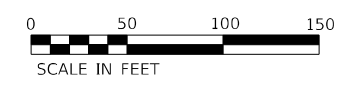


- NOTES:
- PULL BACK EXISTING POWER CABLES TO EXISTING CABINET AT STA. 343+09. INSTALL PROPOSED CABINET AND INTERCEPT EXISTING ELECTRICAL CONDUIT, REINSTALL POWER CABLES IN EXISTING CONDUIT FROM EXISTING CABINET TO PROPOSED CABINET.



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**Jacobs**  
525 W. Monroe, Suite 1600, Chicago, IL 60661

USER NAME = korabmp  
PLOT SCALE =  
PLOT DATE = 3/22/2022

DESIGNED - JJZ  
DRAWN - RH  
CHECKED - CRH  
DATE - 1/27/2022

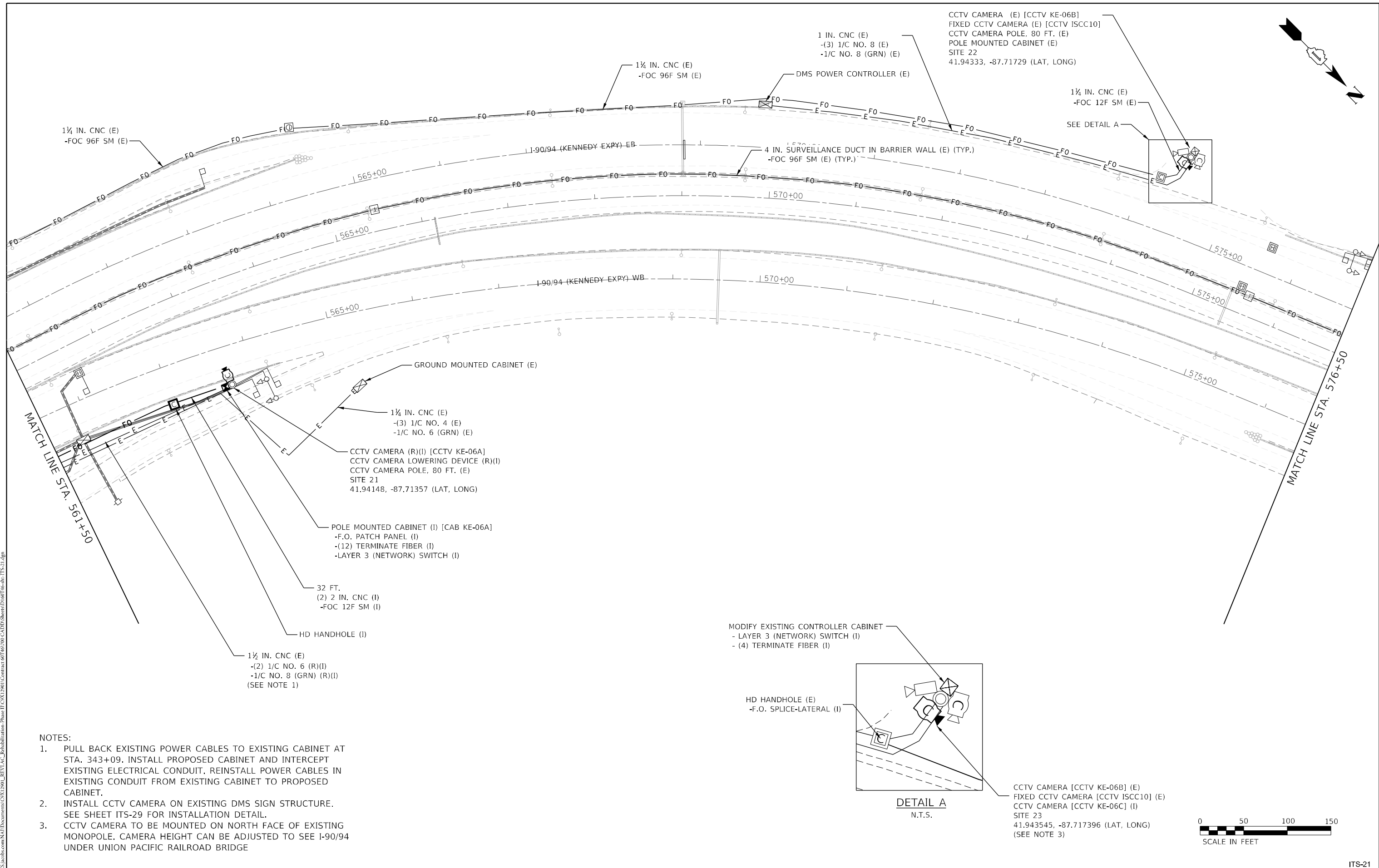
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REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS  
PROPOSED CCTV PLANS**  
SCALE: 1" = 50' SHEET 21 OF 51 SHEETS STA. 547+00 TO STA. 561+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	101
CONTRACT NO. 60746				
ILLINOIS FED. AID PROJECT				

ITS-20



CCTV CAMERA (E) [CCTV KE-06B]  
 FIXED CCTV CAMERA (E) [CCTV ISCC10]  
 CCTV CAMERA POLE, 80 FT. (E)  
 POLE MOUNTED CABINET (E)  
 SITE 22  
 41.94333, -87.71729 (LAT, LONG)

1 IN. CNC (E)  
 -(3) 1/C NO. 8 (E)  
 -1/C NO. 8 (GRN) (E)

1 1/2 IN. CNC (E)  
 -FOC 12F SM (E)

1 1/2 IN. CNC (E)  
 -FOC 96F SM (E)

1 1/2 IN. CNC (E)  
 -FOC 96F SM (E)

DMS POWER CONTROLLER (E)

I-90/94 (KENNEDY EXPY) EB

4 IN. SURVEILLANCE DUCT IN BARRIER WALL (E) (TYP.)  
 -FOC 96F SM (E) (TYP.)

SEE DETAIL A

GROUND MOUNTED CABINET (E)

1 1/2 IN. CNC (E)  
 -(3) 1/C NO. 4 (E)  
 -1/C NO. 6 (GRN) (E)

CCTV CAMERA (R)(I) [CCTV KE-06A]  
 CCTV CAMERA LOWERING DEVICE (R)(I)  
 CCTV CAMERA POLE, 80 FT. (E)  
 SITE 21  
 41.94148, -87.71357 (LAT, LONG)

POLE MOUNTED CABINET (I) [CAB KE-06A]  
 -F.O. PATCH PANEL (I)  
 -(12) TERMINATE FIBER (I)  
 -LAYER 3 (NETWORK) SWITCH (I)

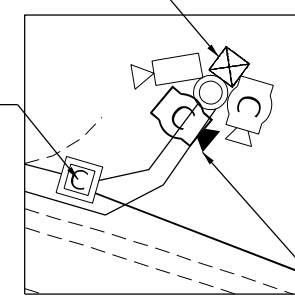
32 FT.  
 (2) 2 IN. CNC (I)  
 -FOC 12F SM (I)

HD HANDHOLE (I)

1 1/2 IN. CNC (E)  
 -(2) 1/C NO. 6 (R)(I)  
 -1/C NO. 8 (GRN) (R)(I)  
 (SEE NOTE 1)

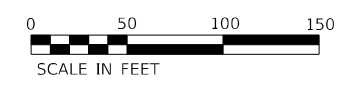
MODIFY EXISTING CONTROLLER CABINET  
 - LAYER 3 (NETWORK) SWITCH (I)  
 - (4) TERMINATE FIBER (I)

HD HANDHOLE (E)  
 -F.O. SPLICE-LATERAL (I)



DETAIL A  
 N.T.S.

CCTV CAMERA [CCTV KE-06B] (E)  
 FIXED CCTV CAMERA [CCTV ISCC10] (E)  
 CCTV CAMERA [CCTV KE-06C] (I)  
 SITE 23  
 41.943545, -87.717396 (LAT, LONG)  
 (SEE NOTE 3)



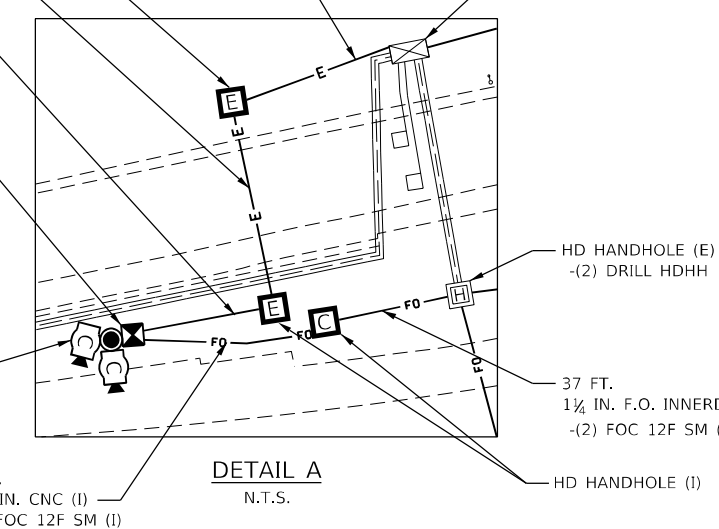
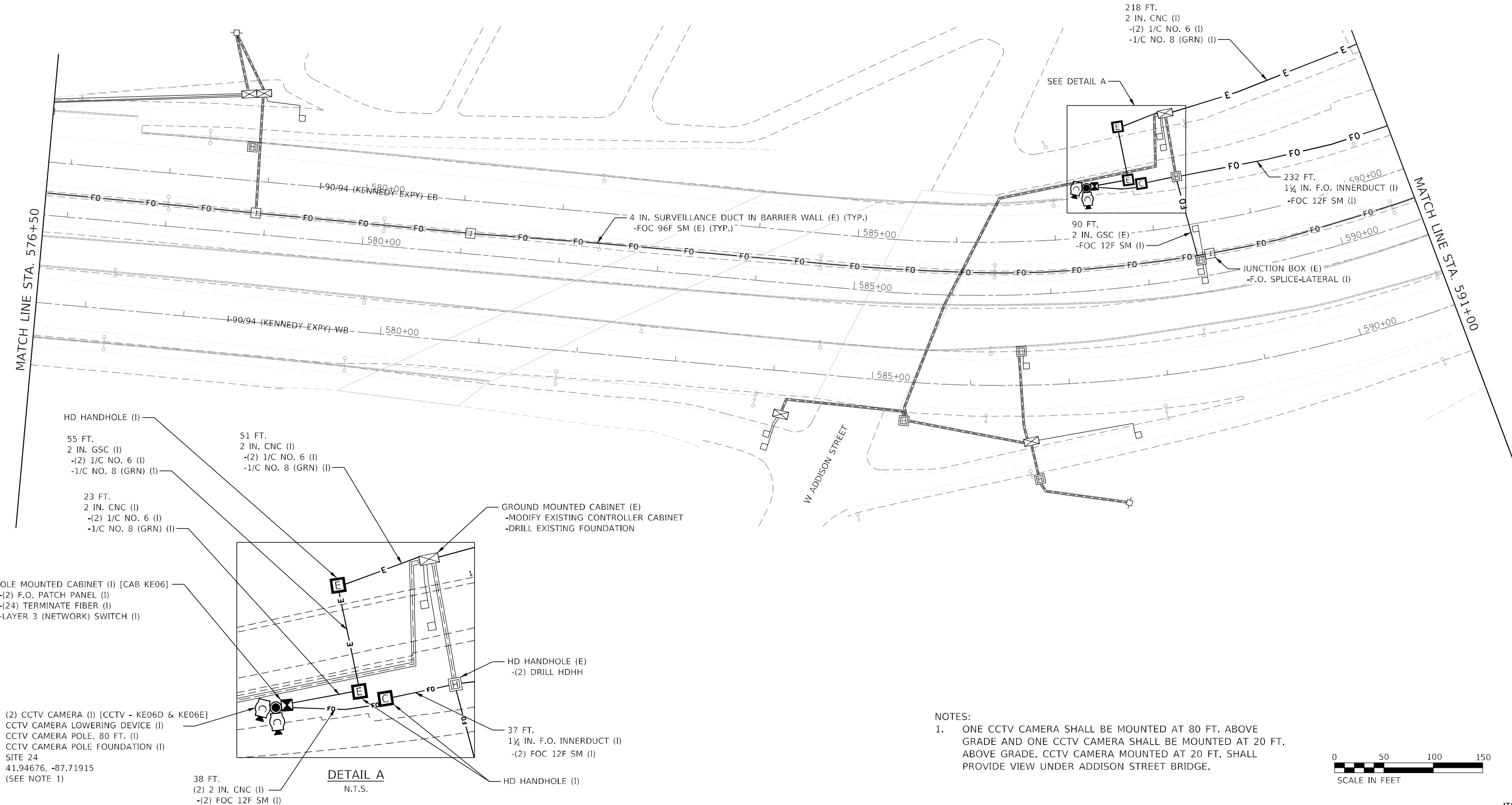
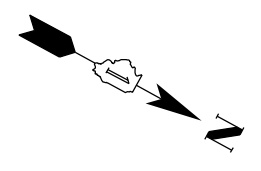
NOTES:

- PULL BACK EXISTING POWER CABLES TO EXISTING CABINET AT STA. 343+09. INSTALL PROPOSED CABINET AND INTERCEPT EXISTING ELECTRICAL CONDUIT, REINSTALL POWER CABLES IN EXISTING CONDUIT FROM EXISTING CABINET TO PROPOSED CABINET.
- INSTALL CCTV CAMERA ON EXISTING DMS SIGN STRUCTURE. SEE SHEET ITS-29 FOR INSTALLATION DETAIL.
- CCTV CAMERA TO BE MOUNTED ON NORTH FACE OF EXISTING MONOPOLE. CAMERA HEIGHT CAN BE ADJUSTED TO SEE I-90/94 UNDER UNION PACIFIC RAILROAD BRIDGE

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FILE NAME = D160746-sh-ITS-21.dgn <b>Jacobs</b> 525 W. Monroe, Suite 1600, Chicago, IL 60661	USER NAME = korabmp	DESIGNED - JJZ DRAWN - RH	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>ITS PLANS          PROPOSED CCTV PLANS - SITE 21, 22, AND 23</b>			P.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 102
	PLOT SCALE = PLOT DATE = 3/22/2022	CHECKED - CRH DATE - 1/27/2022	SCALE: 1" = 50' SHEET 22 OF 51 SHEETS STA. 650+00 TO STA. 665+00		CONTRACT NO. 60T46 ILLINOIS FED. AID PROJECT							

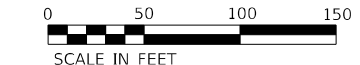
ITS-21



- HD HANDHOLE (I)
- 55 FT.  
2 IN. GSC (I)  
(2) 1/C NO. 6 (I)  
-1/C NO. 8 (GRN) (I)
- 23 FT.  
2 IN. CNC (I)  
(2) 1/C NO. 6 (I)  
-1/C NO. 8 (GRN) (I)
- POLE MOUNTED CABINET (I) [CAB KE06]  
(2) F.O. PATCH PANEL (I)  
(24) TERMINATE FIBER (I)  
-LAYER 3 (NETWORK) SWITCH (I)
- (2) CCTV CAMERA (I) [CCTV - KE06D & KE06E]  
CCTV CAMERA LOWERING DEVICE (I)  
CCTV CAMERA POLE, 80 FT. (I)  
CCTV CAMERA POLE FOUNDATION (I)  
SITE 24  
41.94676, -87.71915  
(SEE NOTE 1)
- 38 FT.  
(2) 2 IN. CNC (I)  
(2) FOC 12F SM (I)

GROUND MOUNTED CABINET (E)  
-MODIFY EXISTING CONTROLLER CABINET  
-DRILL EXISTING FOUNDATION

- NOTES:  
1. ONE CCTV CAMERA SHALL BE MOUNTED AT 80 FT. ABOVE GRADE AND ONE CCTV CAMERA SHALL BE MOUNTED AT 20 FT. ABOVE GRADE. CCTV CAMERA MOUNTED AT 20 FT. SHALL PROVIDE VIEW UNDER ADDISON STREET BRIDGE.



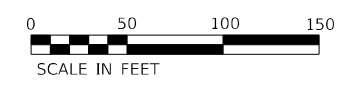
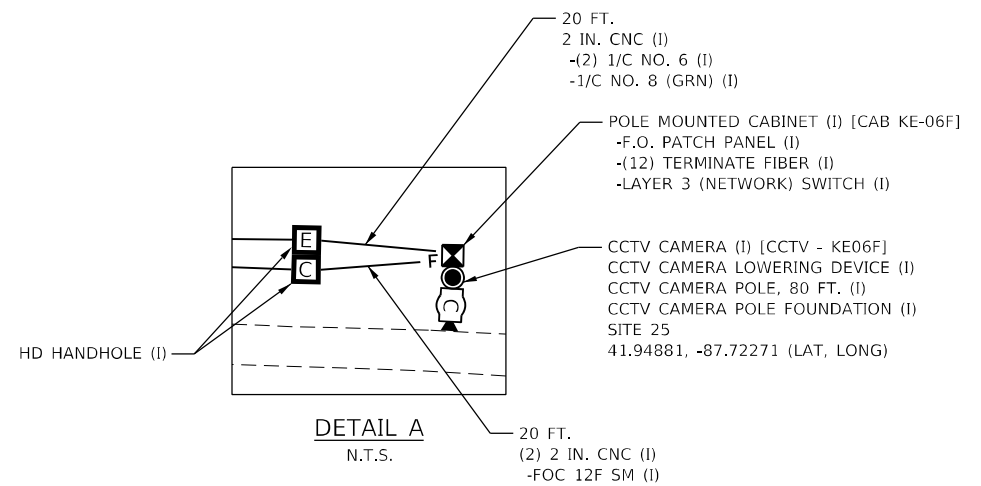
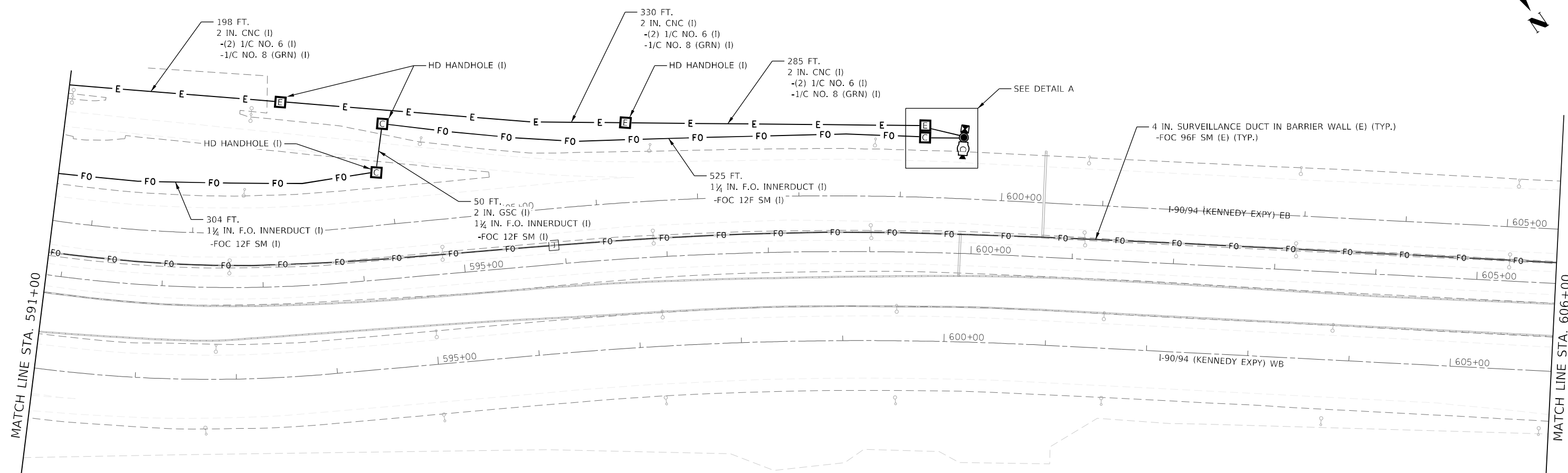
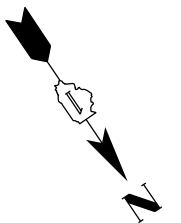
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 DATE - 1/27/2022  
 REVISIONS  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -  
 PLOT SCALE =  
 PLOT DATE = 3/22/2022

**Jacobs**  
525 W. Monroe, Suite 1600, Chicago, IL 60661

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS  
PROPOSED CCTV PLANS - SITE 24**  
SCALE: 1" = 50' SHEET 23 OF 51 SHEETS STA. 561+50 TO STA. 576+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	103
CONTRACT NO. 60T46			ILLINOIS FED. AID PROJECT	



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**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

USER NAME = korabmp  
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 DRAWN - RH  
 CHECKED - CRH  
 DATE - 1/27/2022  
 PLOT SCALE =  
 PLOT DATE = 3/22/2022

DESIGNED - JJZ  
 DRAWN - RH  
 CHECKED - CRH  
 DATE - 1/27/2022

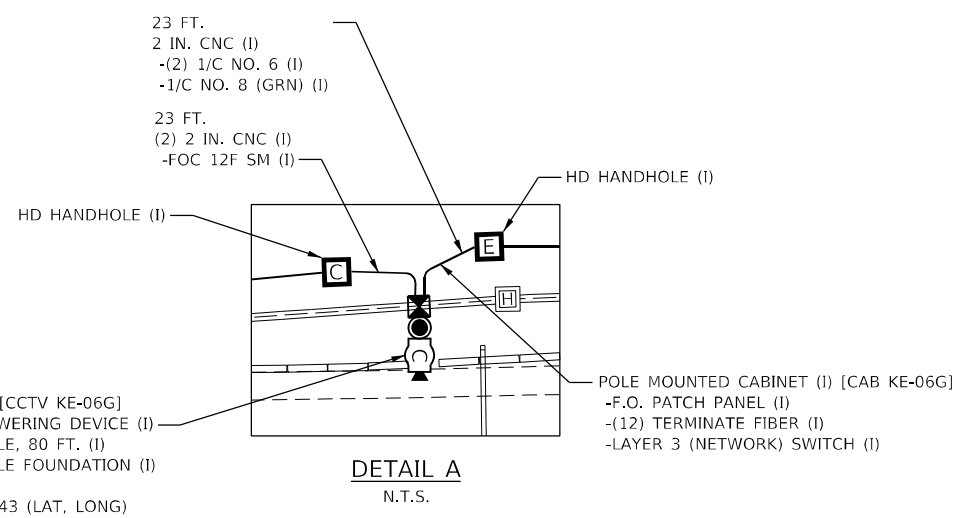
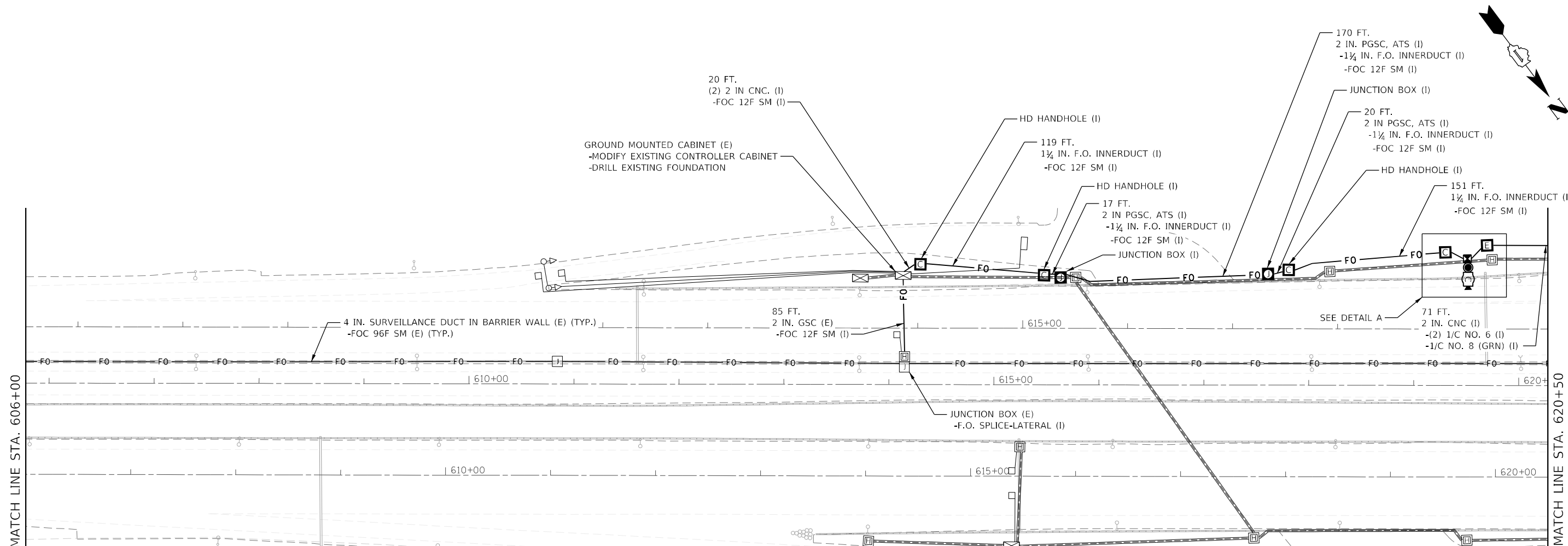
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

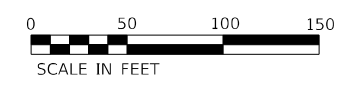
**ITS PLANS  
 PROPOSED CCTV PLANS - SITE 25**  
 SCALE: 1" = 50'  
 SHEET 24 OF 51 SHEETS  
 STA. 576+50 TO STA. 591+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	288	104
CONTRACT NO. 60T46				
ILLINOIS FED. AID PROJECT				

ITS-23



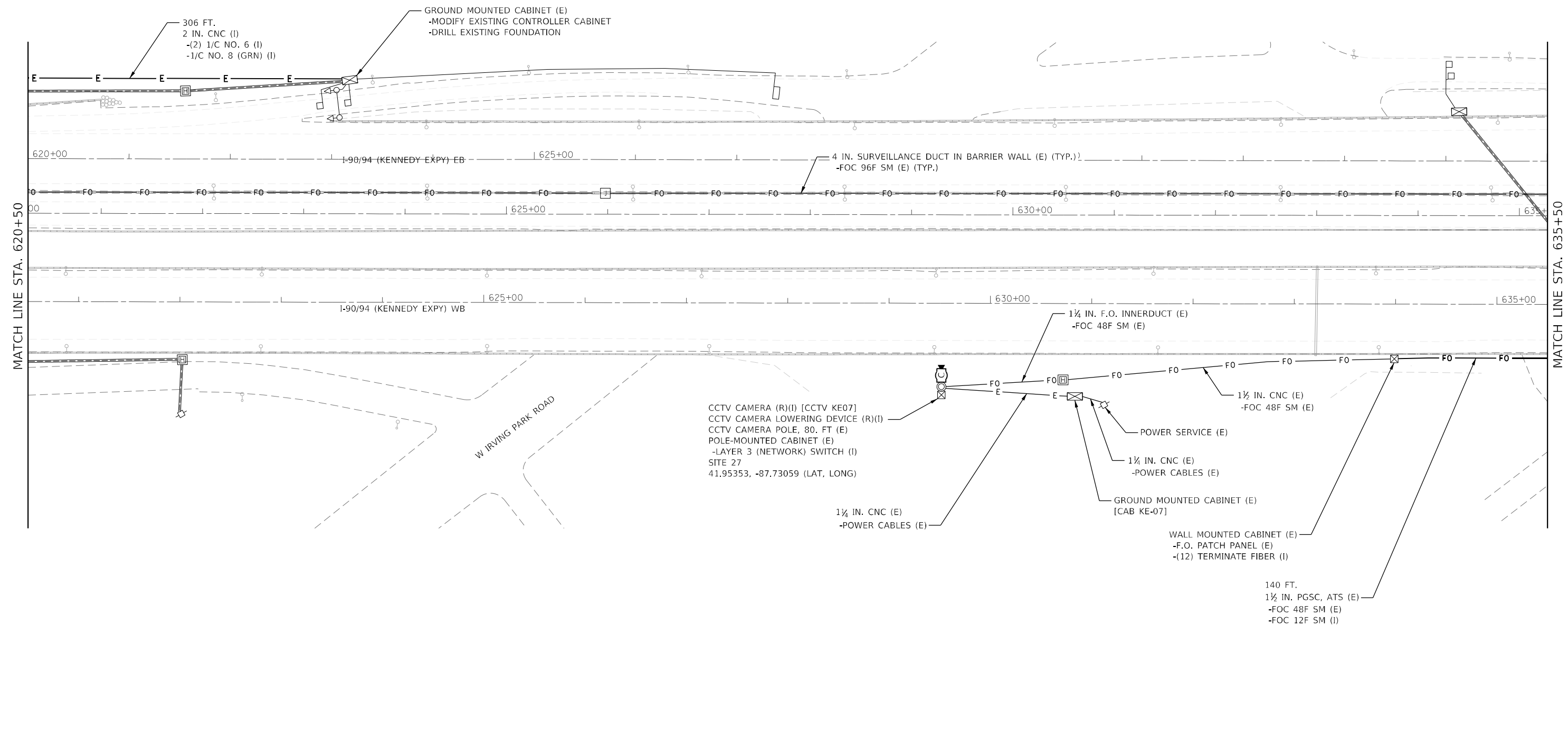
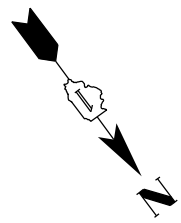
NOTES:  
 1. SEE SHEET ITS-30 FOR CONDUIT ON STRUCTURE DETAIL AT PULASKI RD.



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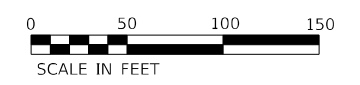
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	PLOT SCALE =	CHECKED - CRH	REVISED -		SCALE: 1" = 50'	SHEET 25 OF 51 SHEETS	STA. 591+00 TO STA. 606+00	90/94	2012-0081	COOK	268	105
PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -	REVISED -			CONTRACT NO. 60T46		ILLINOIS FED. AID PROJECT				

ITS-24



MATCH LINE STA. 620+50

MATCH LINE STA. 635+50



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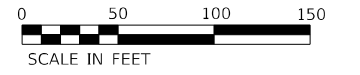
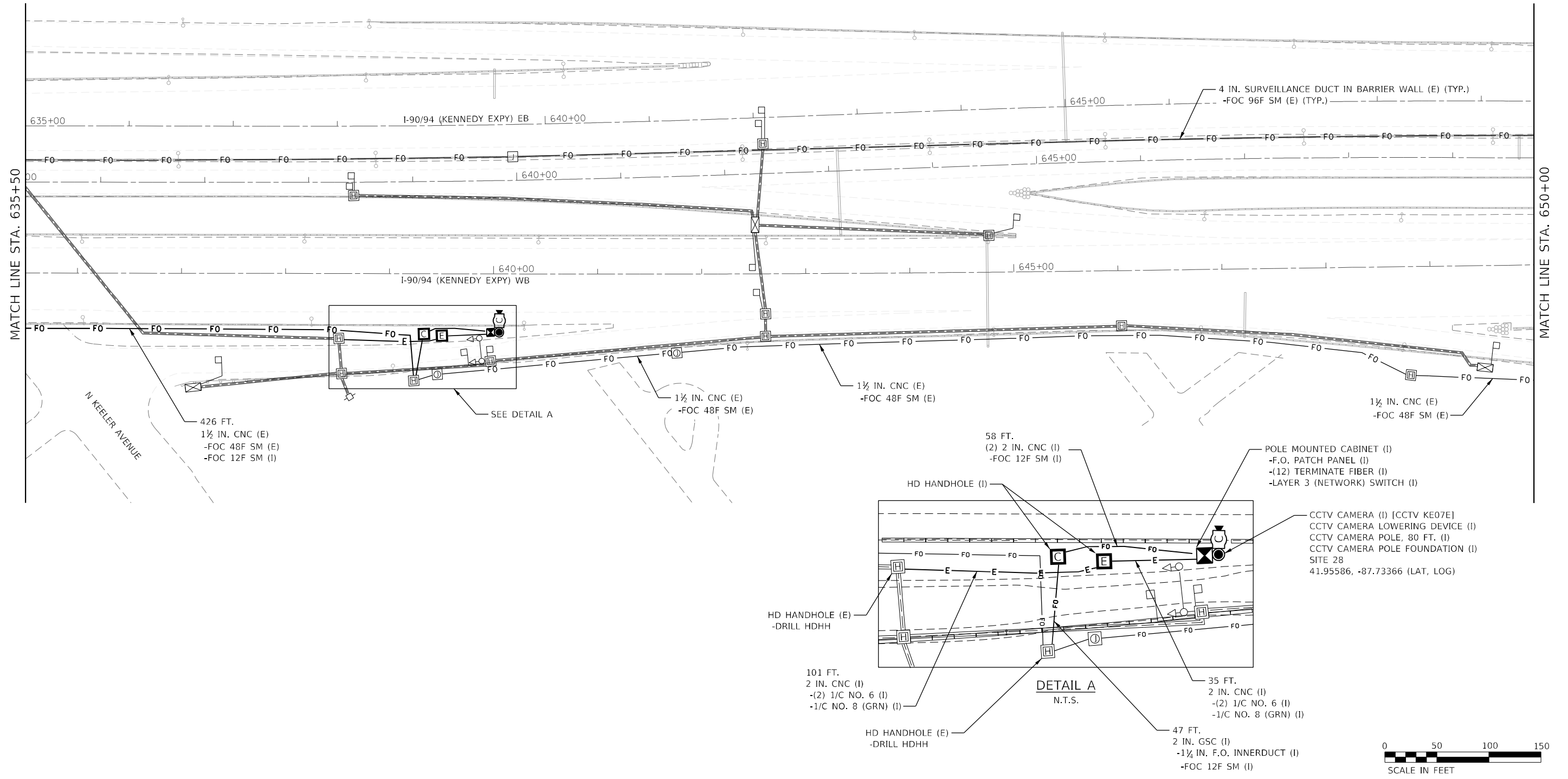
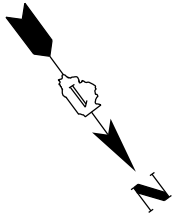
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525 W. Monroe, Suite 1600, Chicago, IL 60661		CHECKED - CRH	REVISED -
	PLOT SCALE =	DATE - 1/27/2022	REVISED -
	PLOT DATE = 3/22/2022		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ITS PLANS PROPOSED CCTV PLANS - SITE 27</b>			
SCALE: 1" = 50'	SHEET 26 OF 51 SHEETS	STA. 606+00	TO STA. 620+50

F.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 106
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T46	

ITS-25



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 PLOT DATE = 3/22/2022

**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

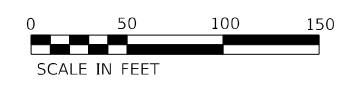
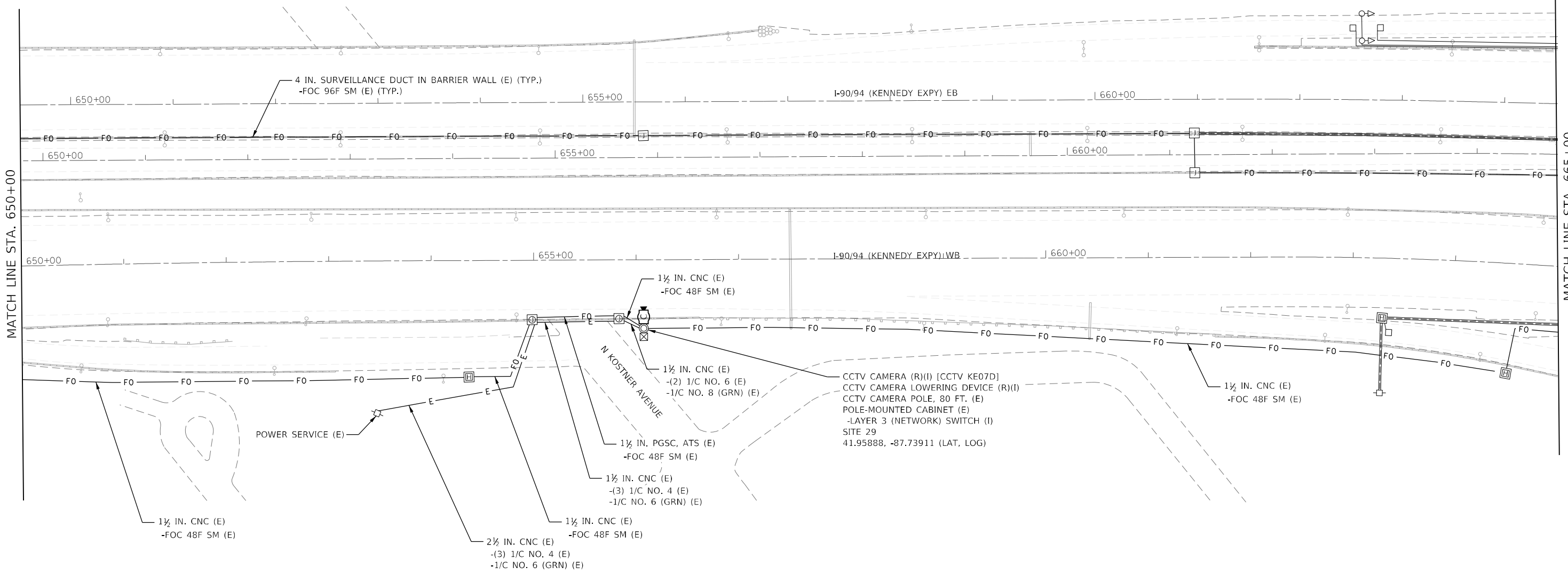
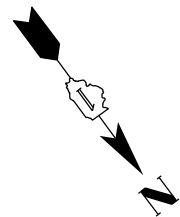
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ITS PLANS          PROPOSED CCTV PLANS - SITE 28</b>			
SCALE: 1" = 50'	SHEET 27	OF 51 SHEETS	STA. 620+50 TO STA. 635+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	107
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				

ITS-26



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**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

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 CHECKED - CRH  
 PLOT DATE = 3/22/2022

DESIGNED - JJZ  
 DRAWN - RH  
 CHECKED - CRH  
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REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

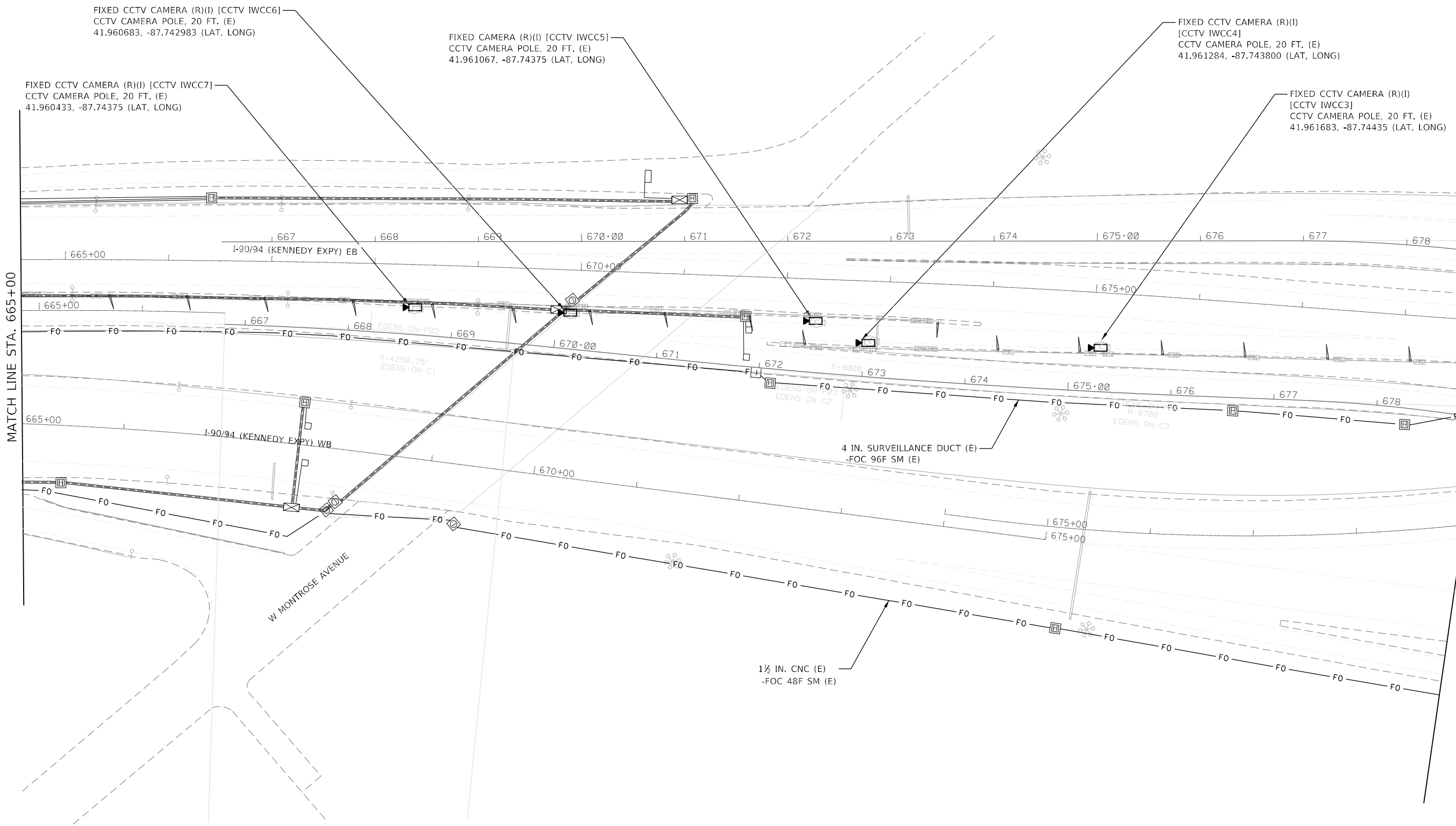
**ITS PLANS  
 PROPOSED ITS PLANS**

SCALE: 1" = 50'    SHEET 28 OF 51 SHEETS    STA. 635+50 TO STA. 650+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	108
CONTRACT NO. 60T46				
ILLINOIS FED. AID PROJECT				

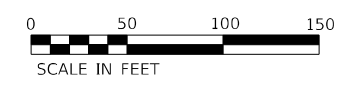
ITS-27





MATCH LINE STA. 665+00

MATCH LINE STA. 679+00



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 525 W. Monroe, Suite 1600, Chicago, IL 60661

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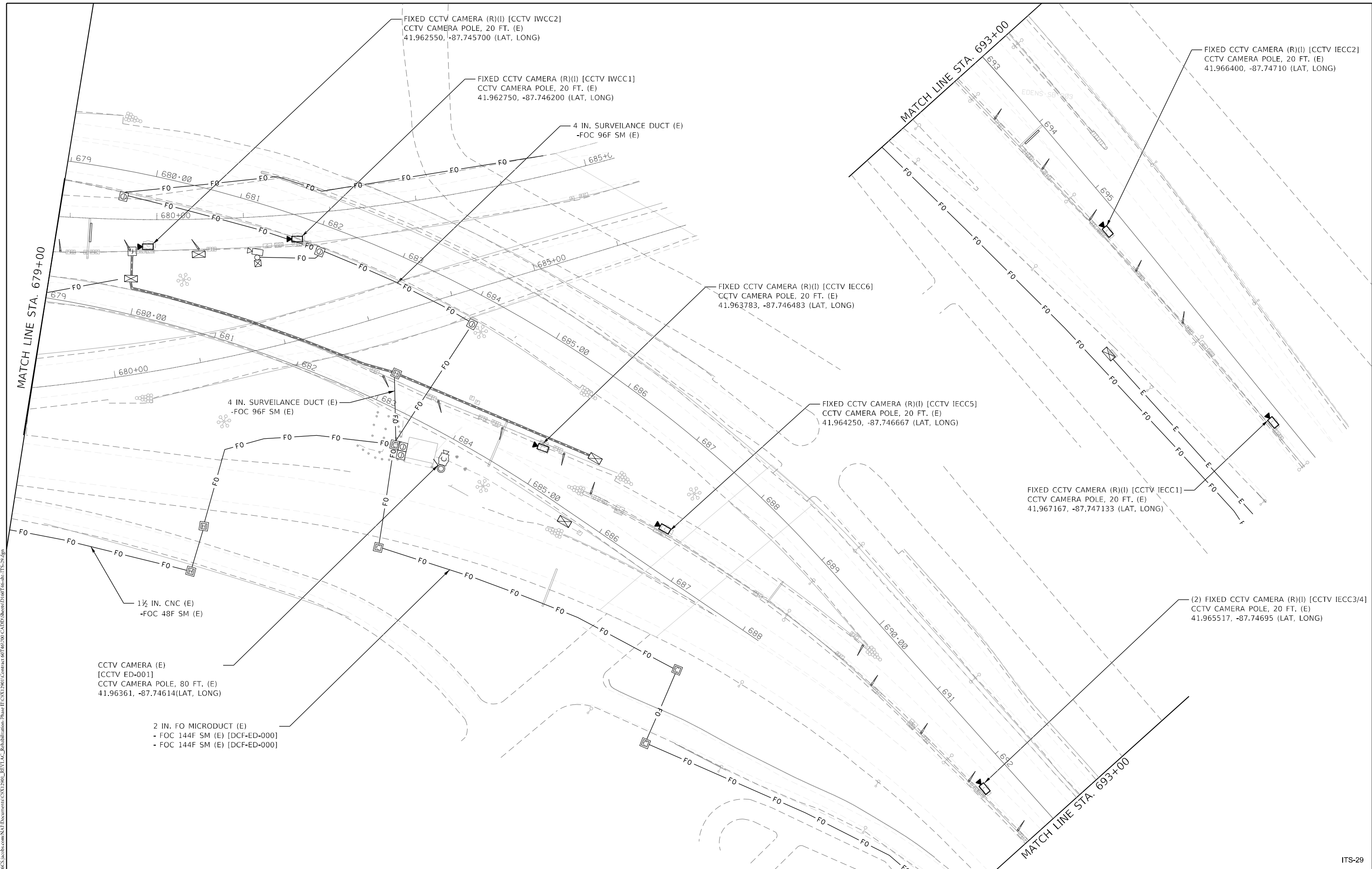
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ITS PLANS  
 ITS SITE 30**  
 SCALE: NTS SHEET 29 OF 51 SHEETS STA. 665+00 TO STA. 679+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	109
CONTRACT NO. 60T46			ILLINOIS FED. AID PROJECT	

ITS-28



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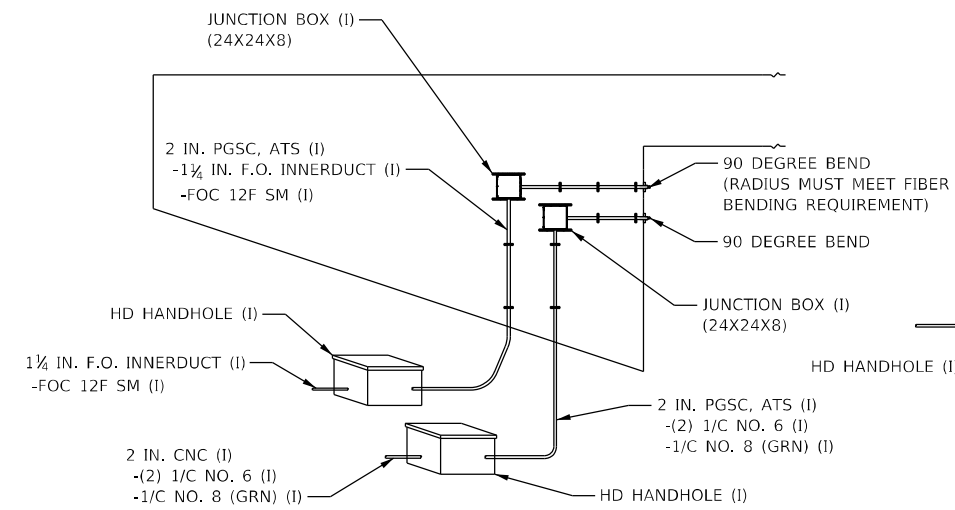
**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

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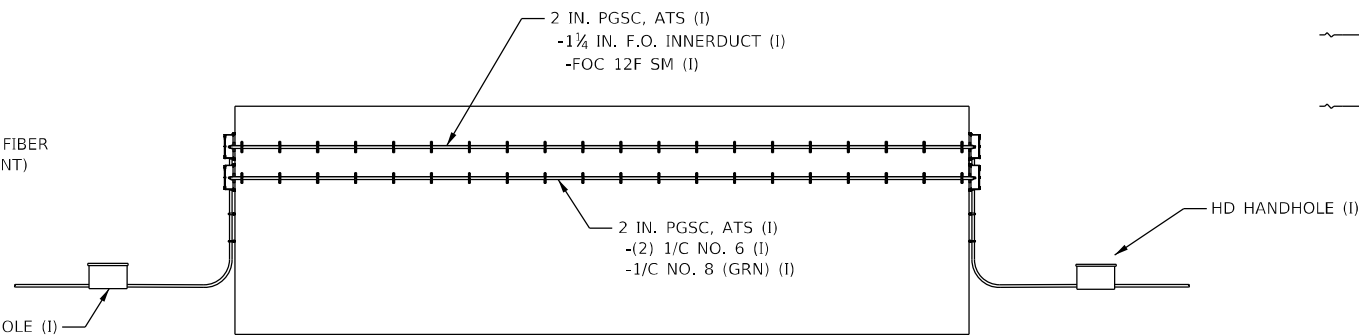
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ITS PLANS</b> <b>ITS SITE 31, 32 AND REVLAC CAMERAS</b>			
SCALE: NTS	SHEET 30	OF 51 SHEETS	STA. 679+00 TO STA. 698+00

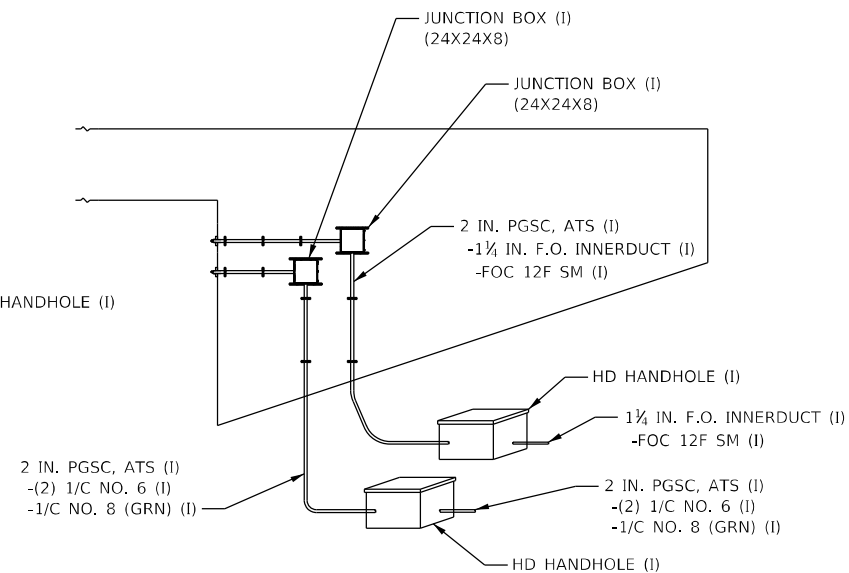
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CONTRACT NO. 60T46				ITS-29



PROFILE VIEW - LOOKING SOUTH  
N.T.S.



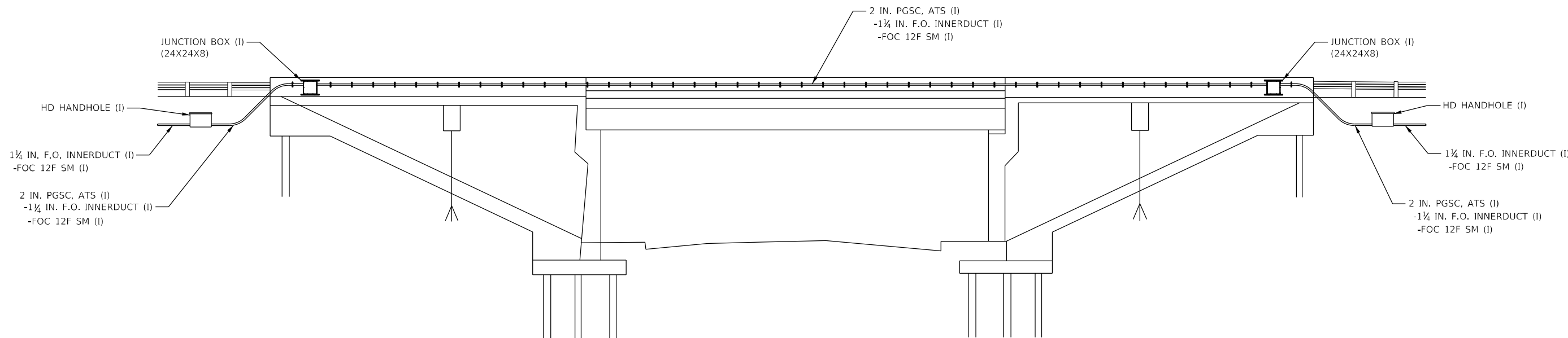
PROFILE VIEW - LOOKING EAST  
N.T.S.



PROFILE VIEW - LOOKING NORTH  
N.T.S.

NOTES:

1. THIS DETAIL REPRESENTS A TYPICAL CONDUIT ON STRUCTURE INSTALLATION AT THE FOLLOWING SITES: OGDEN AVE, CHICAGO AVE, AND RAMP "C". SEE SHEETS ITS-07, ITS-08, AND ITS-09 FOR QUANTITIES AT INDIVIDUAL SITES.

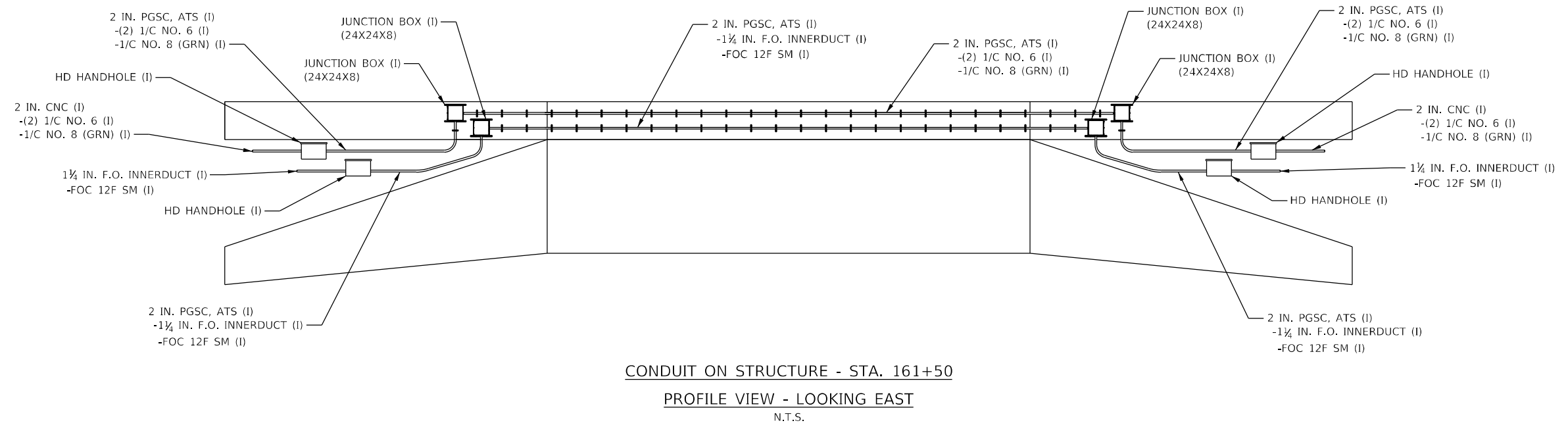


PROFILE VIEW - LOOKING EAST OR WEST  
N.T.S.

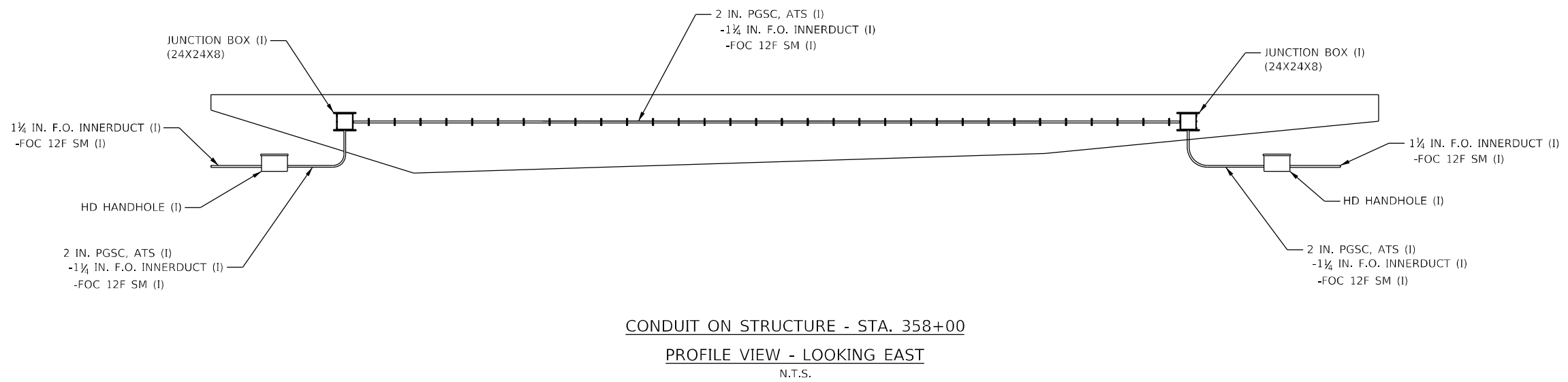
NOTES:

1. THIS DETAIL REPRESENTS A TYPICAL CONDUIT ON STRUCTURE INSTALLATION AT THE FOLLOWING SITES: NORTH AVE, ARMITAGE AVE, AND PULASKI RD. SEE SHEETS ITS-11, ITS-13, AND ITS-24 FOR QUANTITIES AT INDIVIDUAL SITES.

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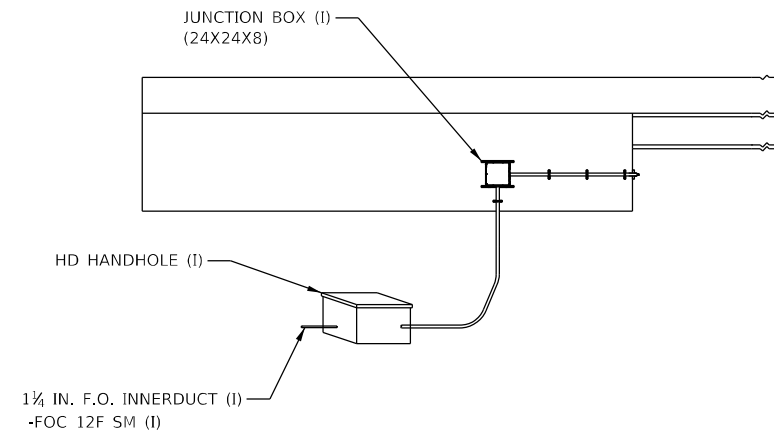


NOTES:  
 1. SEE SHEET ITS-10 FOR SITE QUANTITIES.

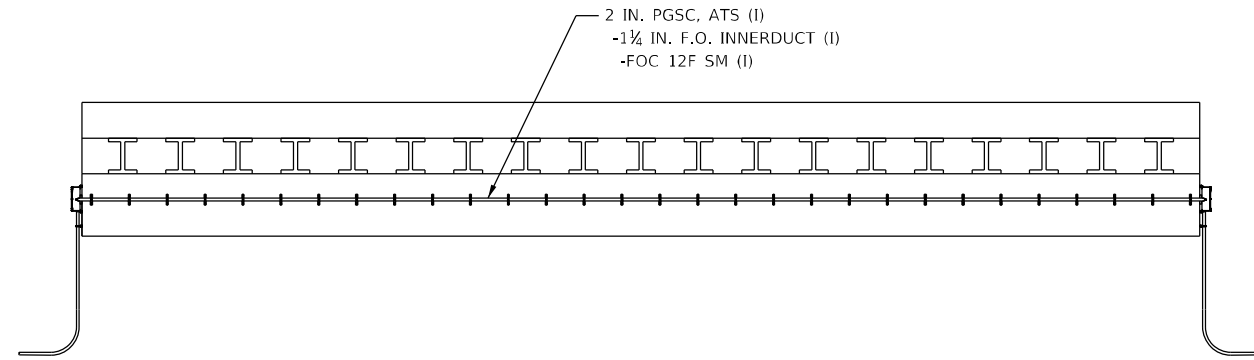


NOTES:  
 1. SEE SHEETS ITS-21 AND ITS-22 FOR SITE QUANTITIES.

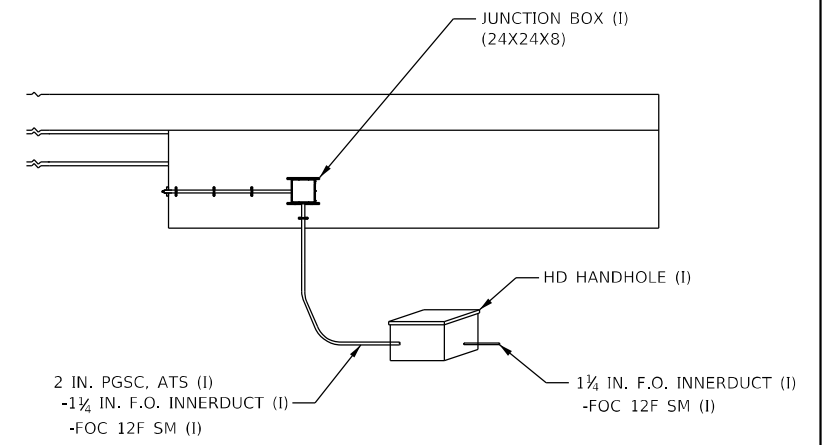
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PROFILE VIEW - LOOKING WEST  
N.T.S.



NORTH AVENUE CONDUIT ON STRUCTURE  
PROFILE VIEW - LOOKING SOUTH  
N.T.S.



PROFILE VIEW - LOOKING EAST  
N.T.S.

NOTES:  
1. SEE SHEET ITS-12 FOR QUANTITIES.

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**Jacobs**  
525 W. Monroe, Suite 1600, Chicago, IL 60661

USER NAME = korabmp  
DESIGNED - JJZ  
DRAWN - RH  
PLOT SCALE =  
PLOT DATE = 3/22/2022

DESIGNED - JJZ  
DRAWN - RH  
CHECKED - CRH  
DATE - 1/27/2022

REVISED -  
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REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

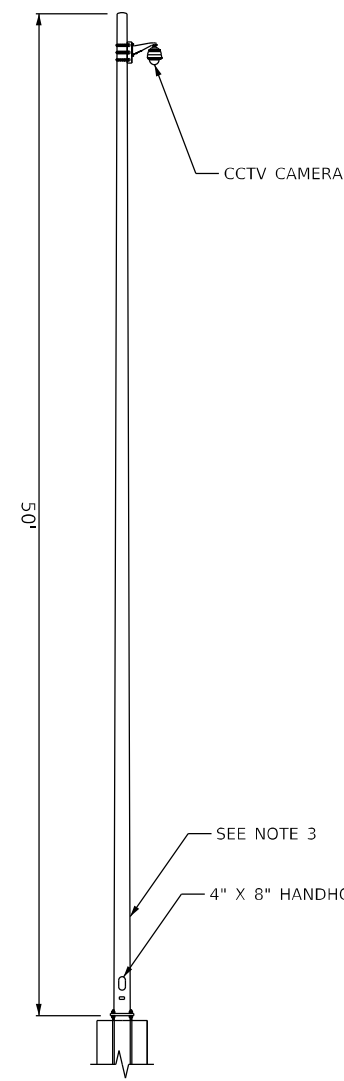
ITS PLANS  
CONDUIT ON STRUCTURE DETAIL  
SCALE: NTS SHEET 33 OF 51 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	113
CONTRACT NO. 60T46				
ILLINOIS FED. AID PROJECT				

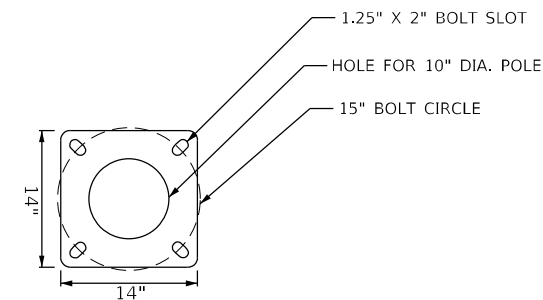
MATERIAL REQUIREMENTS FOR GALVANIZED STEEL POLES		
COMPONENT	ASTM DESIGNATION	MIN. YIELD (SKI)
POLE SHAFT	A572, OR A1011	50
BASE PLATE	A572, OR A1011	50
POLE TOP PLATE	A572, OR A1011	50
ANCHOR BOLTS	F1554	55
GALVANIZING, STRUCTURE	A123	N/A
GALVANIZING, HARDWARE	A153	N/A

NOTES:

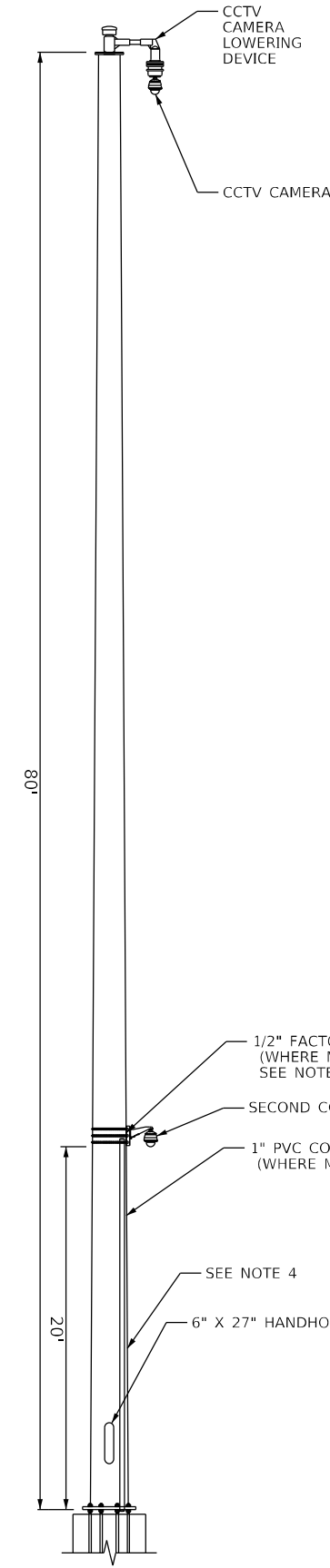
- POLE DIMENSIONS SHALL BE VERIFIED BY POLE MANUFACTURER AND MAY VARY IN ORDER TO MEET DEFLECTION CRITERIA SPECIFIED IN THE SPECIAL PROVISIONS.
- FACTORY INSTALLED GROMMET HOLE TO ALIGN WITH BOLT HOLE
- SEE SHEET ITS-37 FOR CABINET MOUNTING DETAILS FOR 50 FT. POLE.
- SEE SHEET ITS-38 FOR CABINET MOUNTING DETAILS FOR 80 FT. POLE.



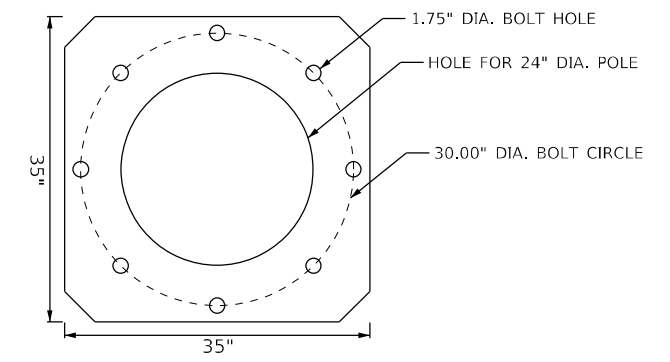
50' ALUMINUM POLE



50' ALUMINUM POLE  
BASE PLATE



80' GALVANIZED STEEL POLE  
WITH LOWERING DEVICE

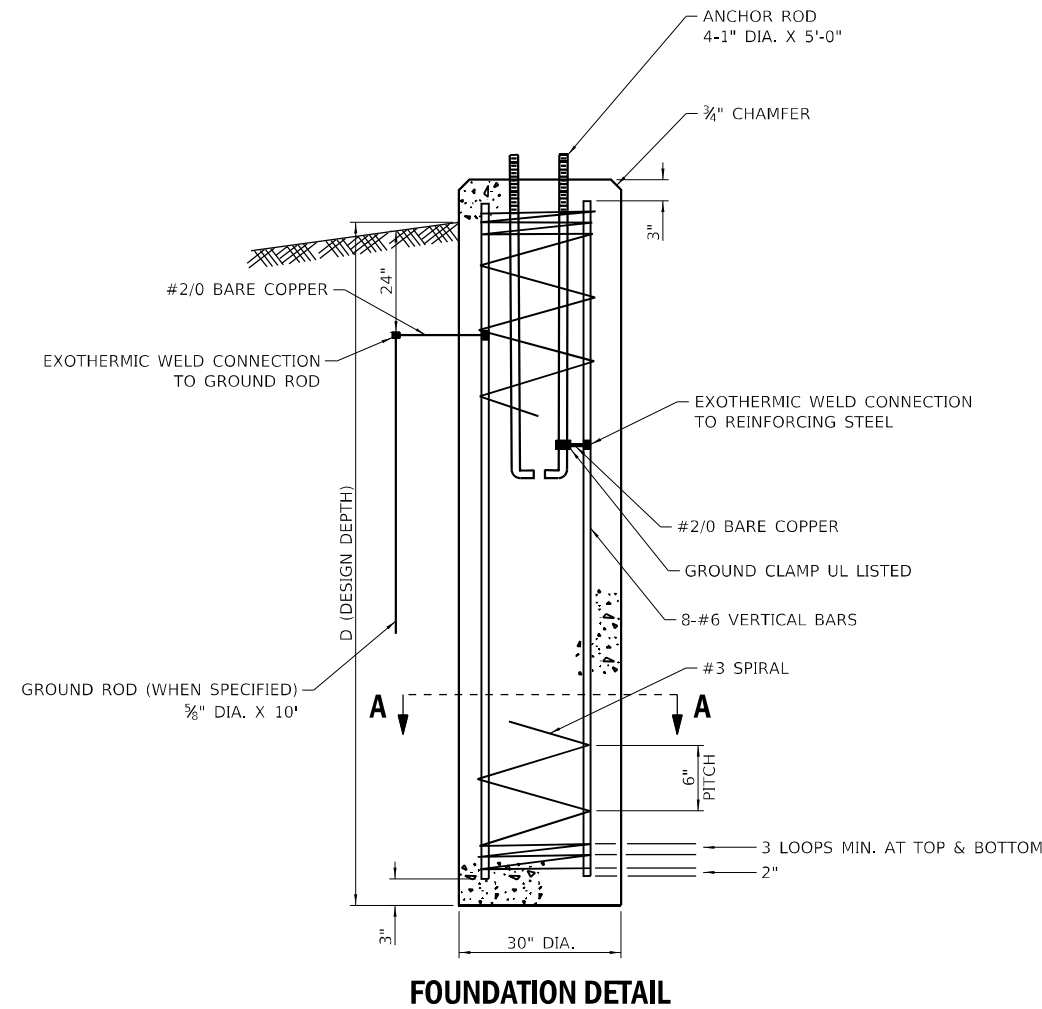


80' GALVANIZED STEEL POLE  
BASE PLATE

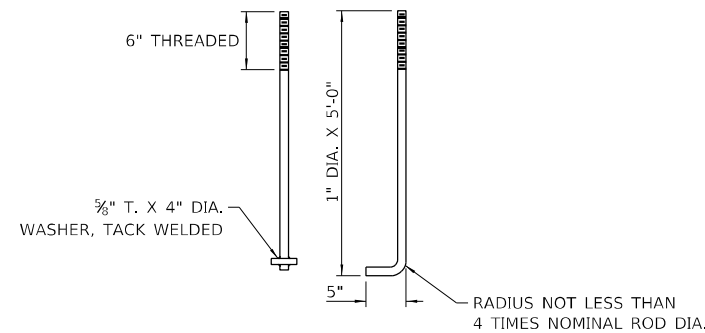
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CCTV CAMERA POLE FOUNDATION DEPTH TABLE

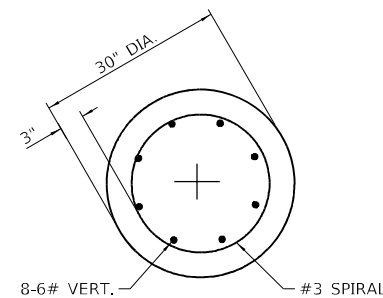
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0"
MEDIUM CLAY Qu = 0.75 TON/SQ. FT.	9'-6"
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0"
LOOSE SAND φ = 34°	9'-0"
MEDIUM SAND φ = 37.5°	8'-3"
DENSE SAND φ = 40°	7'-9"



**FOUNDATION DETAIL**



**ANCHOR ROD DETAIL**

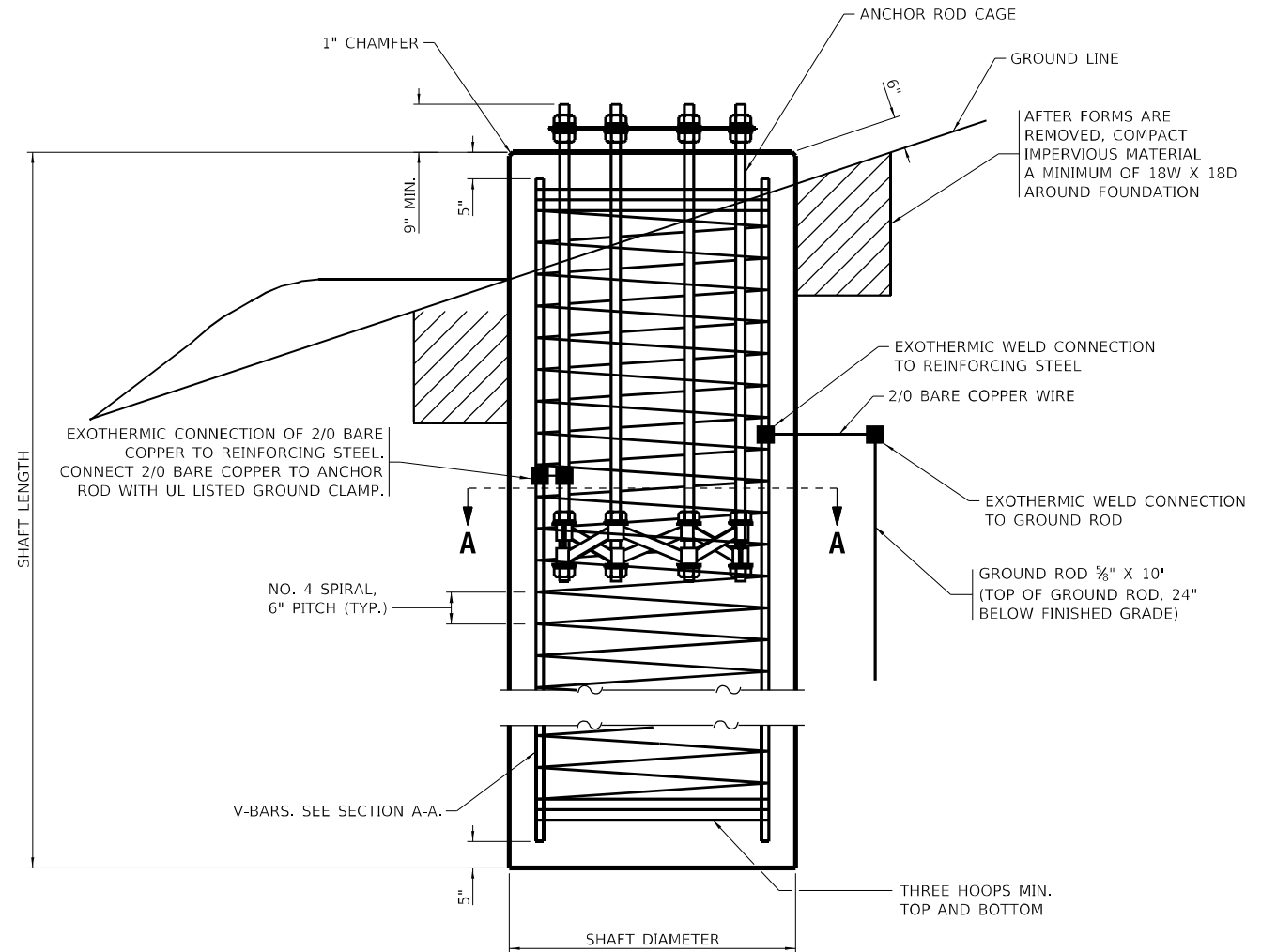


**SECTION A-A**

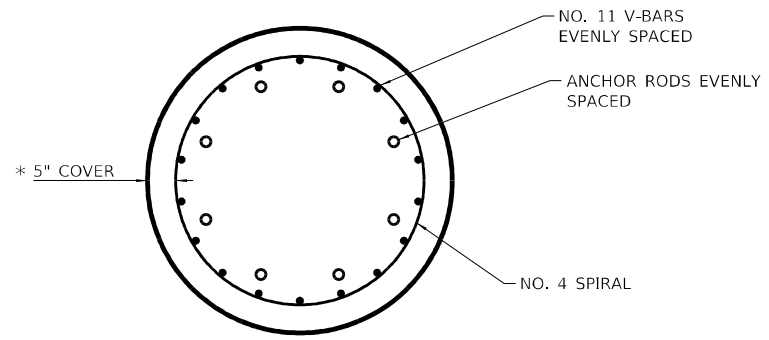
**NOTES**

- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4" ABOVE THE FINISHED GRADE WITHIN A 60" CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4".
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A194 2H OR ASTM A563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F436.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM (6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6" WITH A MINIMUM OF 3" OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" PITCH OR MAY SUBSTITUTE #3 TIES AT 12" O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
- ANCHOR ROD BOLT CIRCLE TO BE COORDINATED WITH CAMERA STRUCTURE.

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**FOUNDATION ELEVATION**



**SECTION A-A**

\* SEE ROD AND REINFORCEMENT TABLE

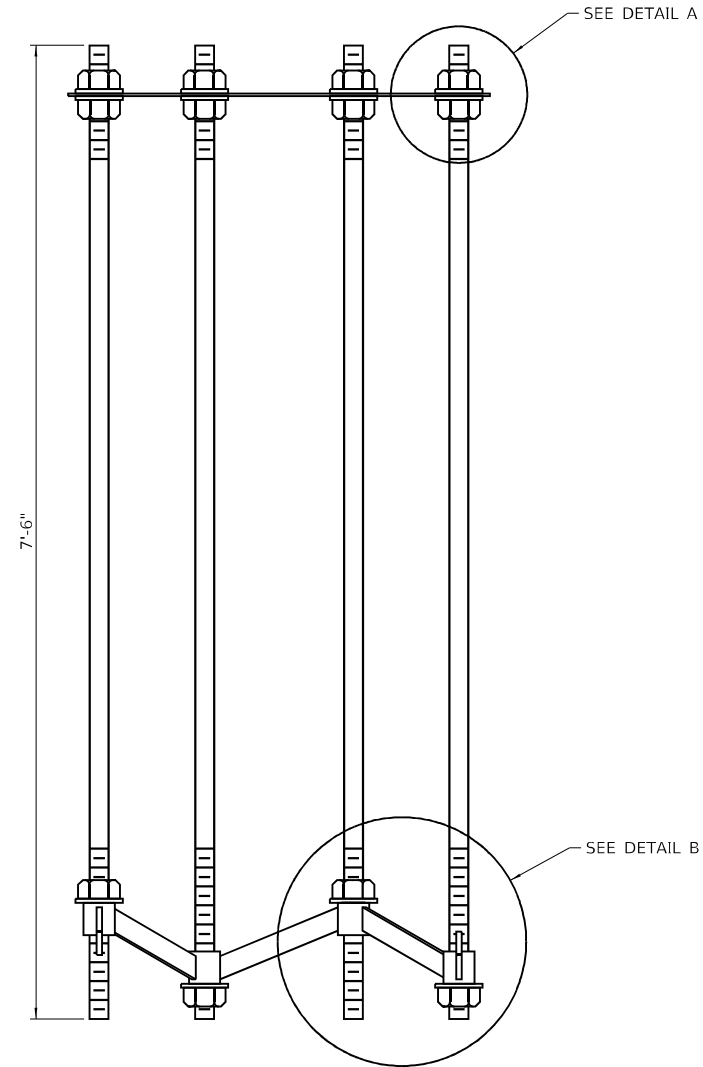
SHAFT LENGTH TABLE		
SOIL CONSISTENCY	AVERAGE STRENGTH	HEIGHT
	Qu in tsf	80'
Cohesive	SOFT	< 0.5
	MEDIUM	0.5 to 1
	STIFF	1 to 2
	VERY STIFF	2 to 4
	HARD	> 4
		N in BLOWS/FT.
Granular	VERY LOOSE	< 5
	LOOSE	5 to 10
	MEDIUM	10 to 25
	DENSE	25 to 50
	VERY DENSE	> 50

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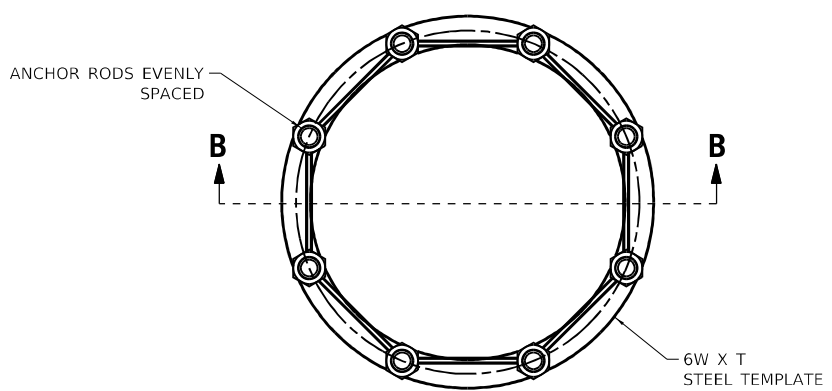


ROD AND REINFORCEMENT TABLE					
TOWER HEIGHT	ANCHOR ROD DIAM. (MIN)	ROD CIRCLE DIAM. (MIN)	TOWER BASE DIAM. (MIN)	DRILLED SHAFT DIAM. ①	V BAR QTY.
80'	1½"	30"	24"	4'-0"	14

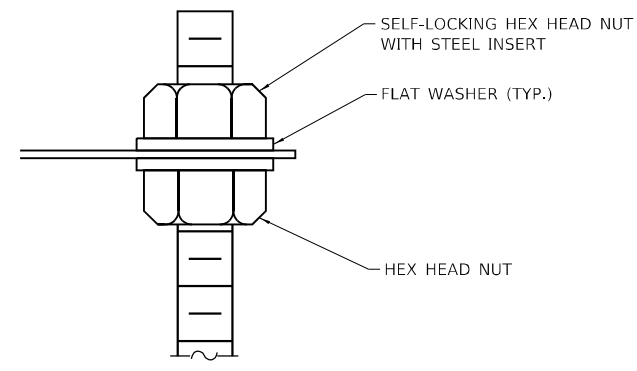
① DIAMETER BASED ON A 5" CONC. COVER. THE MIN. COVER SHALL BE 3" IN DRY SHAFT EXCAVATION AND 4" IN A WET HOLE. WHEN ROCK IS ENCOUNTERED, A 5" COVER AGAINST SOIL AND A 2" COVER AGAINST ROCK SHALL BE REQUIRED.



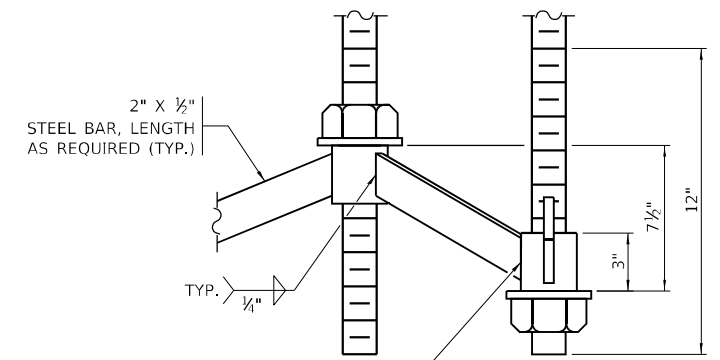
**SECTION B-B**



**ANCHOR ROD CAGE (PLAN)**



**DETAIL A**



**DETAIL B**

**NOTES**

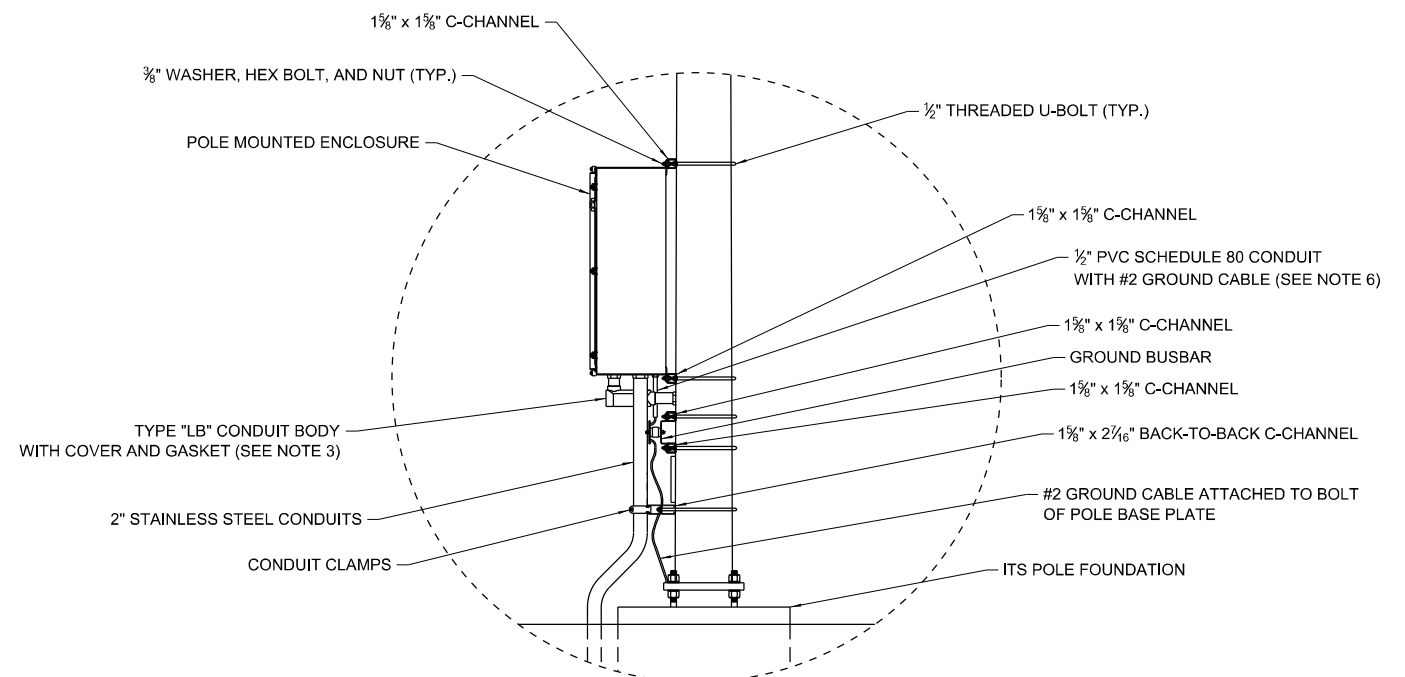
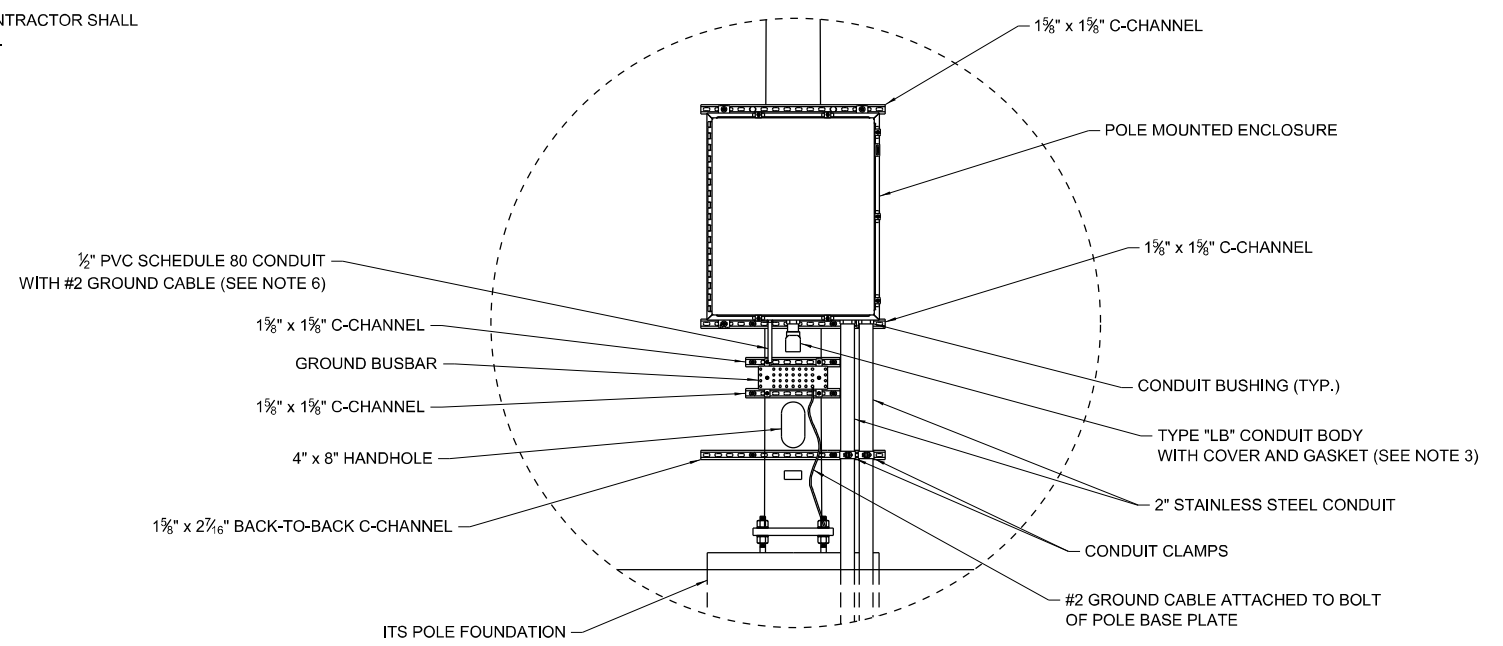
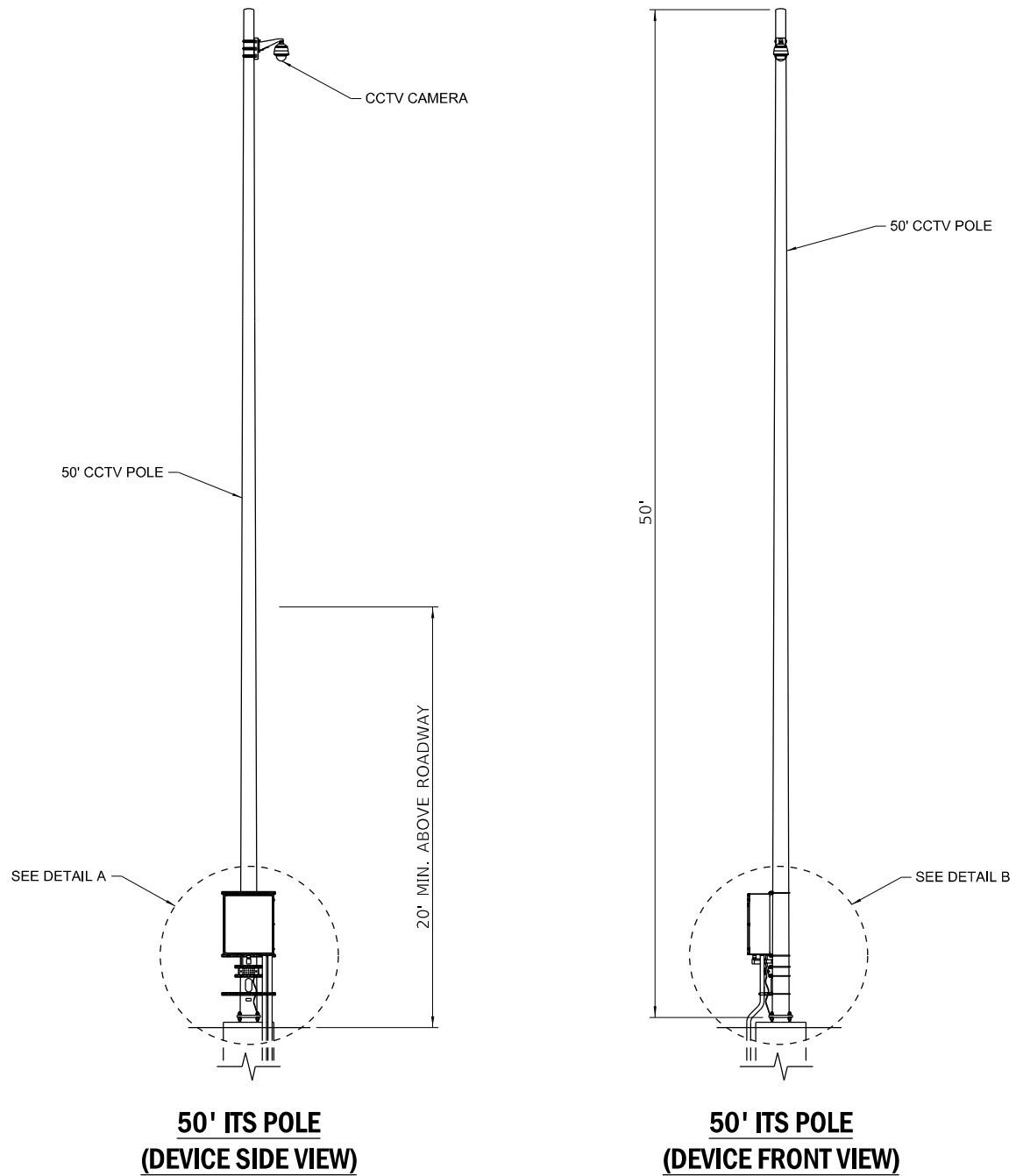
- ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE CCTV STRUCTURE MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
- THE COST OF REINFORCEMENT SHALL BE INCLUDED IN THE COST OF THE FOUNDATION.
- STEEL ANCHOR ROD FORMS SHALL NOT BE REMOVED FOR A MINIMUM OF 3 DAYS AFTER CONCRETE IS POURED. THE CCTV STRUCTURE SHALL NOT BE SET FOR A MINIMUM OF 7 DAYS OR AS APPROVED BY THE ENGINEER.
- COORDINATE THE ROD CIRCLE DIAMETER OF THE STRUCTURE WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
- GROUNDING ELECTRODES SHALL BE INSTALLED IN AN ACCESS WELL WHEN THERE IS A CONFLICT IN USING THE METHOD SHOWN.
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

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NOTES:

- CAMERA POLES SHIELDED BY GUARDRAIL SHALL BE LOCATED A MINIMUM OF 5' TO A MAXIMUM OF 20' BEHIND THE GUARDRAIL POST. FINAL LOCATION TO BE APPROVED BY THE ENGINEER.
- ANY GROUND CABLES ROUTED INSIDE THE CCTV CABINET SHALL BE GREEN INSULATED TYPE RHW CONDUCTORS. ANY GROUND CONNECTED TO THE EXTERNAL GROUND BUSBAR SHALL BE EXOTHERMICALLY WELDED TO THE BUSBAR. PVC SCH 80 CONDUIT SHOULD BE GROMMETTED ON END GOING TO BUSBAR TO PREVENT RODENTS AND INSECTS FROM ENTERING.
- PROVIDE A 1½" ALUMINUM CONDUIT NIPPLE WITH LB FITTING FOR ROUTING ITS ELEMENT CABLES INSIDE THE POLE TO THE ITS ENCLOSURE. DRILL AND TAP POLE FOR THE CONDUIT NIPPLE. CABLE SLACK SHALL BE PULLED AND FASTENED WITHIN THE TOP OF THE POLE. PROPER CABLE STRAIN RELIEF SHALL BE INSTALLED AND APPROVED BY THE ENGINEER. ALL CABLE RUN INSIDE THE POLE SHALL NOT HANG BELOW THE TOP OF THE HANDHOLE COVER ON THE POLE.
- ALL CONDUITS ENTERING THE CCTV CABINET SHALL BE SEALED.

- CONTRACTOR TO PROVIDE ALL POWER, COMMUNICATIONS, AND GROUND WIRING REQUIRED FOR SYSTEM OPERATION.
- ATTACH PVC SCH 80 CONDUIT TO POLE FOR SUPPORT. USE METAL BUSHING WHEN CONNECTING PVC TO CABINET. USE GROMMETS AT BOTH ENDS OF CONDUIT TO SEAL CONDUIT BUT ALLOW GROUND CABLE TO RUN THROUGH BOTH ENDS.
- ALL CABLING (INCLUDING CABLING INSIDE THE CCTV CABINET) SHALL BE OUTDOOR RATED.
- PRIOR TO INSTALLING ANY DEVICES OR SWITCHES, THE CONTRACTOR SHALL COORDINATE DEVICE CONFIGURATION WITH THE ENGINEER.



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FILE NAME = D160746-shi-ITS-37.dgn  
**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

USER NAME = korabmp  
 PLOT SCALE =  
 PLOT DATE = 3/22/2022

DESIGNED - JJZ  
 DRAWN - RH  
 CHECKED - CRH  
 DATE - 1/27/2022

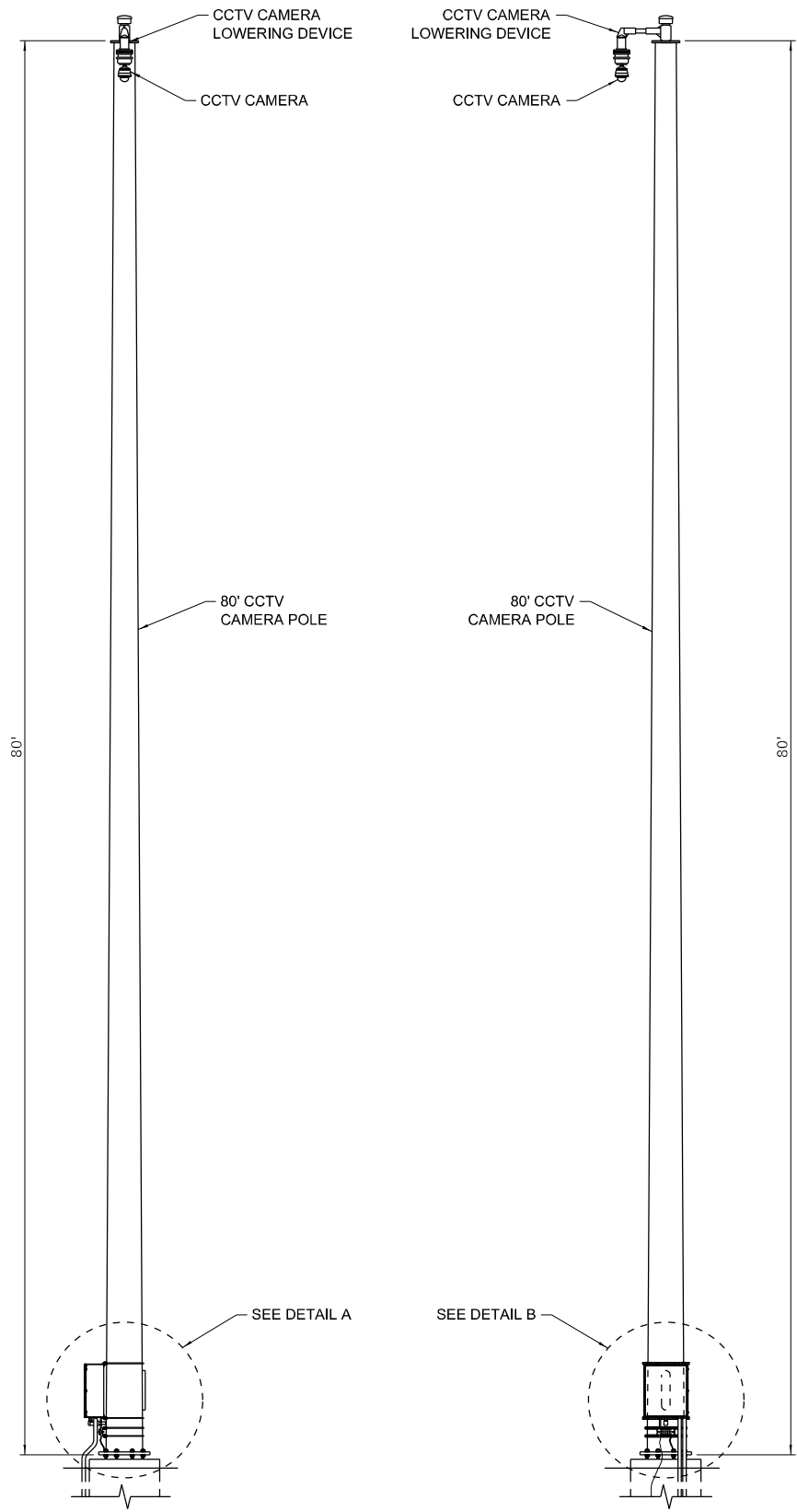
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ITS PLANS  
 IDOT ITS DEVICE POLE (50 FT.) DETAILS  
 SCALE: NTS SHEET 38 OF 51 SHEETS STA. N/A TO STA. N/A

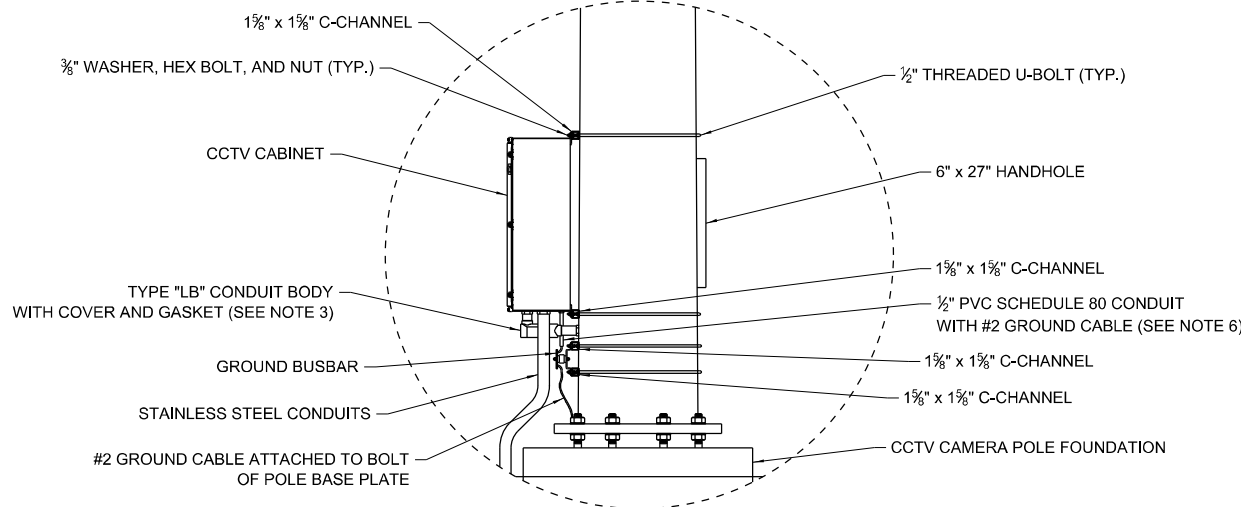
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	118
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				

ITS-37

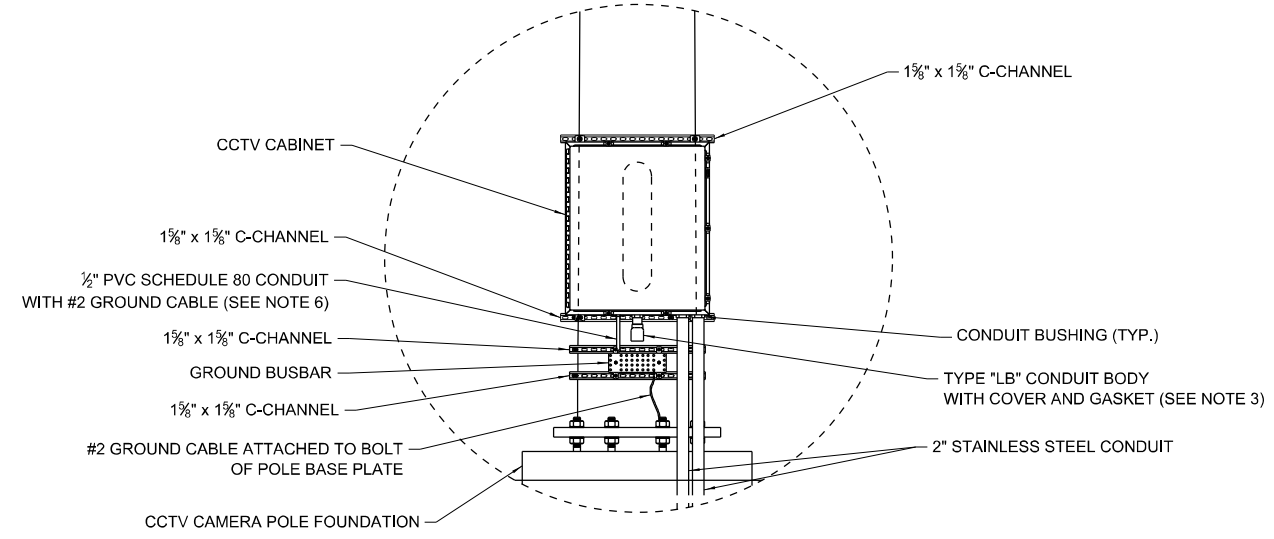


**80' CCTV CAMERA POLE WITH LOWERING DEVICE (DEVICE FRONT VIEW)**

**80' CCTV CAMERA POLE WITH LOWERING DEVICE (DEVICE SIDE VIEW)**



**DETAIL A**



**DETAIL B**

- NOTES:
1. CCTV CAMERA POLES SHIELDED BY GUARDRAIL SHALL BE LOCATED A MINIMUM OF 5' TO A MAXIMUM OF 20' BEHIND THE GUARDRAIL POST. FINAL LOCATION TO BE APPROVED BY THE ENGINEER.
  2. ANY GROUND CABLES ROUTED INSIDE THE CCTV CABINET SHALL BE GREEN INSULATED TYPE RHW CONDUCTORS. ANY GROUND CONNECTED TO THE EXTERNAL GROUND BUSBAR SHALL BE EXOTHERMICALLY WELDED TO THE BUSBAR. PVC SCH 80 CONDUIT SHOULD BE GROMMETTED ON END GOING TO BUSBAR TO PREVENT RODENTS AND INSECTS FROM ENTERING.
  3. PROVIDE A 1 1/2" ALUMINUM CONDUIT NIPPLE WITH LB FITTING FOR ROUTING ITS ELEMENT CABLES INSIDE THE POLE TO THE CCTV CABINET. DRILL AND TAP POLE FOR THE CONDUIT NIPPLE. CABLE SLACK SHALL BE PULLED AND FASTENED WITHIN THE TOP OF THE POLE. PROPER CABLE STRAIN RELIEF SHALL BE INSTALLED AND APPROVED BY THE ENGINEER. ALL CABLE RUN INSIDE THE POLE SHALL NOT HANG BELOW THE TOP OF THE HANDHOLE COVER ON THE POLE.
  4. ALL CONDUITS ENTERING THE CCTV CABINET SHALL BE SEALED.
  5. CONTRACTOR TO PROVIDE ALL POWER, COMMUNICATIONS, AND GROUND WIRING REQUIRED FOR SYSTEM OPERATION.
  6. ATTACH PVC SCH 80 CONDUIT TO POLE FOR SUPPORT. USE METAL BUSHING WHEN CONNECTING PVC TO ENCLOSURE. USE GROMMETS AT BOTH ENDS OF CONDUIT TO SEAL CONDUIT BUT ALLOW GROUND CABLE TO RUN THROUGH BOTH ENDS.
  7. ALL CABLING (INCLUDING CABLING INSIDE THE ITS ENCLOSURE) SHALL BE OUTDOOR RATED.
  8. THIRTY DAYS PRIOR TO INSTALLING ANY ITS DEVICES OR SWITCHES, THE CONTRACTOR SHALL COORDINATE DEVICE CONFIGURATION WITH THE ENGINEER.
  9. CAMERA ORIENTATION SHALL BE PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE NOTED.
  10. MOUNTING HARDWARE, EXPOSED CONDUIT, AND GROUNDING ARE INCIDENTAL TO THE CCTV CABINET INSTALLATION.

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FILE NAME = D160746-sh-ITS-38.dgn  
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USER NAME = korabmp  
 PLOT SCALE =  
 PLOT DATE = 3/22/2022

DESIGNED - JJZ  
 DRAWN - RH  
 CHECKED - CRH  
 DATE - 1/27/2022

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ITS PLANS  
 IDOT ITS DEVICE POLE (80 FT.) DETAILS**  
 SCALE: NTS SHEET 39 OF 51 SHEETS STA. N/A TO STA. N/A

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	119
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				

ITEM DESCRIPTION

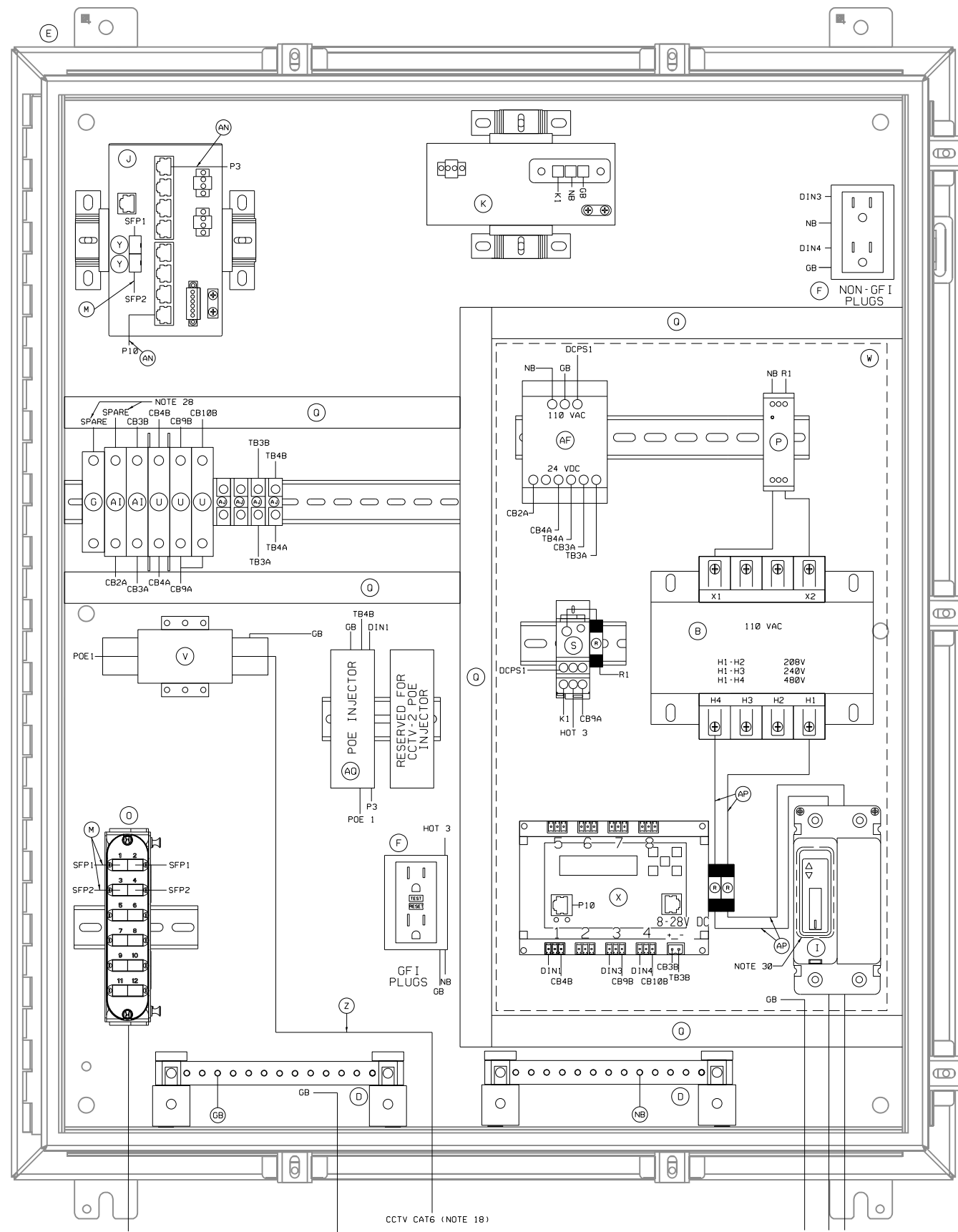
- B CONTROL POWER TRANSFORMER, 1000VA, 208/240/480-120VAC, 1PH SQUARE D/CLASS 9070 - T1000 D95 OR APPROVED EQUAL
- D TWO (2) GROUNDING BAR SYSTEM HOFFMAN/PGS2K OR APPROVED EQUAL BONDED OR SEPARATED AS REQUIRED.
- E NEMA 4X STAINLESS STEEL, 36"H X 30"W X 12"D ENCLOSURE WITH 33"x27" PANEL, HOFFMAN/A36H3012556LP & A36P30 OR APPROVED EQUAL
- F TWO DUPLEX 120V RECEPTACLES, ONE GFCI AND NON-GFI (SEE NOTE 9) HUBBELL/GFR5362 & BR20WR OR APPROVED EQUAL
- G 24VDC, 1P, 15A CIRCUIT BREAKER SCHNEIDER ELECTRIC/MGN61510V OR APPROVED EQUAL
- I 480V, 2P, 30A CIRCUIT BREAKER WITH TERMINAL SHIELD EATON/HFD2030L & 625B229G07 OR APPROVED EQUAL
- J NETWORK SWITCH CISCO IE-3400-8T2S-E OR APPROVED EQUAL
- K CISCO POWER SUPPLY, PWR-IE65W-PC-AC=
- M 2 METER - SMFO LC-LC DUPLEX JUMPER
- O SMF PATCH PANEL WITH LC CONNECTOR PANEL CORNING SINGLE PANEL HOUSING, SPH-01P OR APPROVED EQUAL
- P 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL
- Q PANDUIT WIRING DUCT (OR EQUIVALENT) PANDUIT/F1X2LG6 WITH COVER-C1LG6 OR APPROVED EQUAL
- R 10 AMP FUSE, GOULD (MERSEN)/ATM-10 OR APPROVED EQUAL
- S SPLICE BLOCK, ALTECH/38041 OR APPROVED EQUAL
- U 5A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050 OR APPROVED EQUAL
- V CAT6 POE+ SURGE SUPPRESSOR AS APPROVED BY CAMERA MANUFACTURER SEE SPECIAL PROVISIONS FOR SPECIFIC MODEL NUMBERS (ONLY REQUIRED FOR POE CAMERAS)
- W CLEAR POLY METHYL METHACRYLATE (PMMA, PLEXIGLAS) SAFETY COVER ENCOMPASSING ITEMS AF, P, S, R, B, X, & I. (THE INSTALLER SHALL PERMANENTLY AFFIX A LABEL STATING "DANGER 480 VAC" OR "DANGER 240 VAC" OR "DANGER 120 VAC" FOR 120 VAC AS FIELD CONDITIONS WARRANT.)
- X POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4 OR APPROVED EQUAL
- Y (2) CISCO GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES OR APPROVED EQUAL
- Z CATEGORY 6 CABLE, 23 AWG, OUTDOOR RATED CABLE
- AF AC/DC POWER SUPPLY, 24VDC WAVETRONIX - CLICK-204 OR ISS LAMBDA DSP100-24
- AI 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020 OR APPROVED EQUAL
- AJ TERMINAL BLOCK, ALLEN BRADLEY/1492-CD8 OR APPROVED EQUAL
- AL TRANSFORMER COVERS, SQUARE D/9070FSC2 OR APPROVED EQUAL
- AN INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET
- AP #10 AWG
- AQ POE INJECTOR AS APPROVED BY CAMERA MANUFACTURER SEE SPECIAL PROVISIONS FOR SPECIFIC MODEL NUMBERS (ONLY REQUIRED FOR PoE CAMERAS)

CABINET NOTES:

- 1 ALL POWER WIRING SHALL BE RHH/RHW WITH WIRE TERMINALS OR TINNED.
- 2 CONTRACTOR TO VERIFY CORRECT TRANSFORMER TAPS ARE USED BASED ON INCOMING POWER SOURCE.
- 3 ALL CABLES AND EQUIPMENT SHALL BE PROPERLY DRESSED AND LABELED. ALL CONDUITS SHALL BE PROPERLY PLUGGED WITH DUCT SEAL PUTTY (RAINBOW TECHNOLOGIES OR EQUIVALENT).
- 4 SHEET SHOWS BOTH POE INJECTOR OPTIONS USING A 120VAC SUPPLY AND 24VDC SUPPLY.
- 5 EACH 120VAC OUTLET, PS OR TRANSFORMER (ITEM F, K, L, & AF) SHALL BE FED FROM A SEPARATE INPUT LINE.
- 6 THE DIN RAIL(S) FOR ITEMS J & K SHALL BE INSTALLED WITH THE CENTER LINE NO LESS THAN 5 INCHES FROM ANY OBSTACLE ABOVE NO LESS THAN 4 INCHES FROM ANY OBSTACLE BELOW. ANY DIN RAIL SHALL BE GROUNDED.
- 7 ALL CABLES INSTALLED WITHIN THE CABINET AND POLE SHALL BE OUTDOOR RATED.
- 8 WIFI COMMUNICATION SHALL BE DISABLED ON DIN ETHERNET RELAY.
- 9 THE GFI OUTLETS LOAD SHALL NOT BE CONNECTED TO ANY OTHER LOAD IN THE ENCLOSURE. THE 1900 QUAD BOX GFIs ARE INTENDED TO BE UTILIZED FOR EXTERNAL EQUIPMENT ONLY. EACH OUTLETS TAB SHALL BE BROKEN SO THEY ARE INDEPENDENT.
- 10 ALL BREAKERS SHALL BE LABELED (E.G. CAMERA-AC, CAMERA-DC, DIN RELAY-AC, DIN RELAY-DC, ETC.).
- 11 NOT USED FOR THIS SHEET APPLICATION
- 12 USE THE MOUNTING TABS ON THE IP RELAY UNIT TO MOUNT THE UNIT DIRECTLY TO THE BACK PLATE. REFER TO THE IP RELAY WIRING TABLE FOR WIRING DETAILS.
- 13 ALL CABLES SHALL ENTER THE ENCLOSURE FROM THE BOTTOM. ALL POWER AND COMMUNICATION CABLE SLACK SHALL BE PLACED IN THE HANDHOLE.
- 14 POWER FEED TO THE CISCO IE 3400 SWITCH SHALL BE FROM THE 120VAC INPUT WHEN THE ENCLOSURE IS AC POWERED.
- 15 NOT USED FOR THIS SHEET APPLICATION
- 16 NOT USED FOR THIS SHEET APPLICATION
- 17 ITEM X IS USED TO CONTROL POWER TO THE CAMERAS. ALL 120VAC CONNECTIONS ON ITEM X SHALL BE PROTECTED.
- 18 CABLES TO BE ROUTED THROUGH POLE.
- 19 NOT USED FOR THIS SHEET APPLICATION
- 20 NOT USED FOR THIS SHEET APPLICATION
- 21 NOT USED FOR THIS SHEET APPLICATION
- 22 DIN RAIL SHALL BE INSTALLED AS ILLUSTRATED ON DRAWING. DIN RAIL SHALL BE GROUNDED TO THE GROUND BUS.
- 23 BOND NEUTRAL AND GROUND BUSES TOGETHER, WHEN REQUIRED. TIE THE ENCLOSURE INTO THE GROUND BUS.
- 24 ITEM W SHALL BE FORMED AND MOLDED TO FIT AROUND THE AREA DENOTED BY THE DASHED LINE. THE PLEXIGLASS SHALL BE MOUNTED TO THE BACKPLATE WITH SUFFICIENT AIR HOLES TO ALLOW HEAT TO ESCAPE THE AREA. THERE SHALL ALSO BE OPENINGS ON THE BOTTOM TO ALLOW CABLES TO BE PASSED FROM THE AC SECTION TO THE OTHER SECTIONS OF THE ENCLOSURE.
- 25 ITEM AL SHALL BE PLACED ON ITEM B.
- 26 ALL INTERNAL ENCLOSURE ROUTED AND TERMINATED CAT6 CABLE SHALL BE TEMPERATURE RATED.
- 27 ALL INTERNAL 24VAC, 120VAC (STARTING ON SECONDARY SIDE OF ITEM B) AND ANY DC VOLTAGE POWER FEEDS USE #16 AWG CABLE.
- 28 SPARE BREAKER RESERVED.
- 29 ALL CONDUIT EXITING THE BOTTOM OF THE CABINET SHALL BE INSTALLED IN-LINE WITH THE EQUIPMENT IT IS CONNECTED TO. THE CABLES SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER.
- 30 PROVIDE WINDOW IN PMMA SHIELD FOR ACCESS TO BREAKER. MOUNT BREAKER FLUSH WITH PMMA SHIELD USING MOUNTING BRACKET. DEVICES REQUIRED FOR THE 120VAC SUPPLY ARE DENOTED WITH A DASHED LINE.

GENERAL NOTE:

THIS DETAIL DEPICTS A SUGGESTED EQUIPMENT LAYOUT AND WIRING SCHEMATIC FOR LOCATIONS WITH A SINGLE CCTV CAMERA. CONTRACTOR SHALL DETERMINE LOCATION AND CONNECTION OF ALL EQUIPMENT IN CONFORMANCE WITH THE SPECIFICATIONS AND MANUFACTURER RECOMMENDATIONS. UNIQUE CABINET SHOP DRAWINGS ARE REQUIRED FOR EACH CABINET LAYOUT BASED UPON THE NUMBER AND TYPES OF DEVICES CONNECTED TO THE CABINET.



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 USER NAME = korabmp  
 DESIGNED - JJZ  
 DRAWN - RH  
 CHECKED - CRH  
 DATE - 1/27/2022  
 PLOT SCALE =  
 PLOT DATE = 3/22/2022

**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

FILE NAME = D:\160746-ehi-ITS-38.dgn	USER NAME = korabmp	DESIGNED - JJZ	REVISED -
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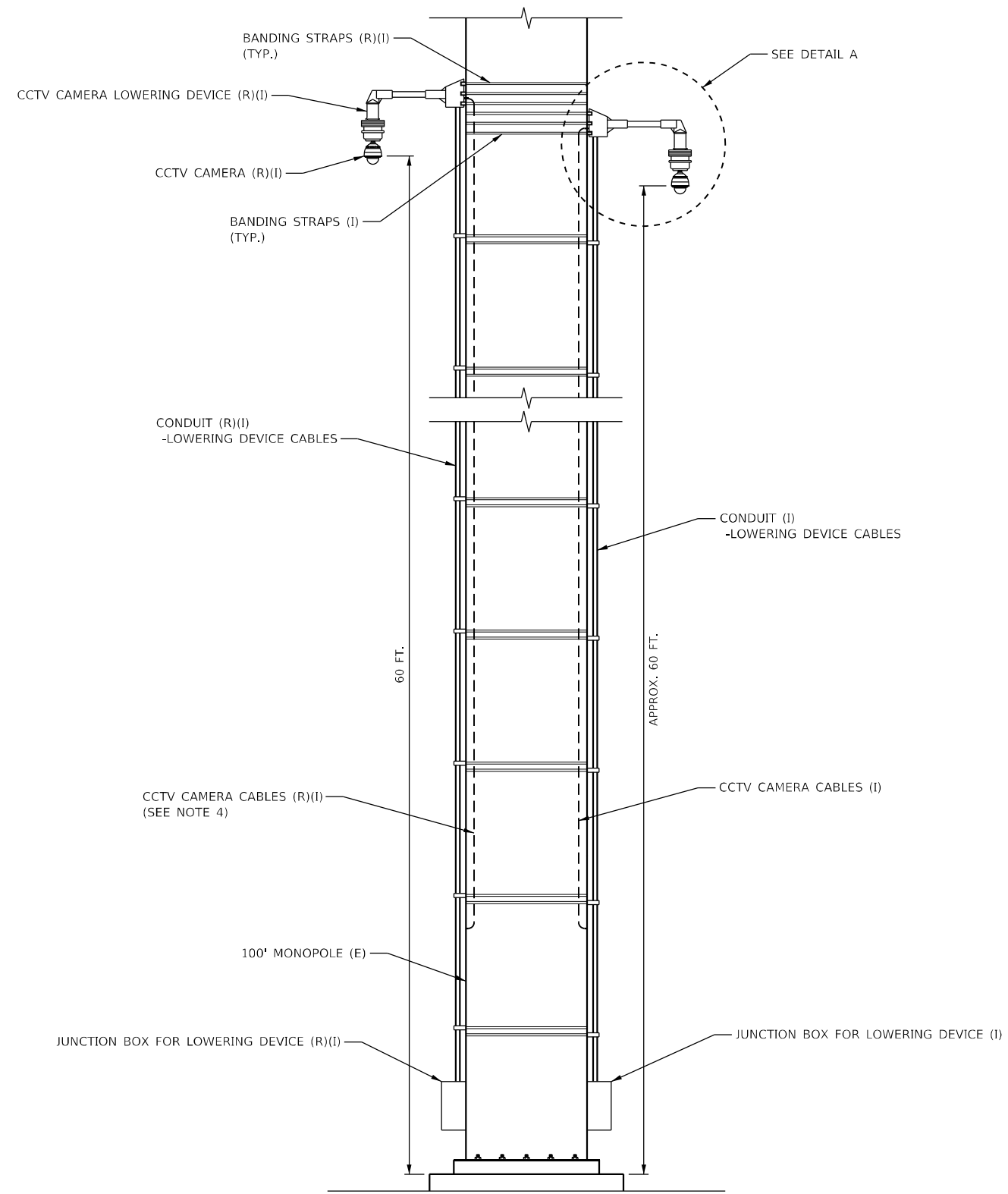
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ITS PLANS**  
**CABINET, MODEL 334 RACK LAYOUT**

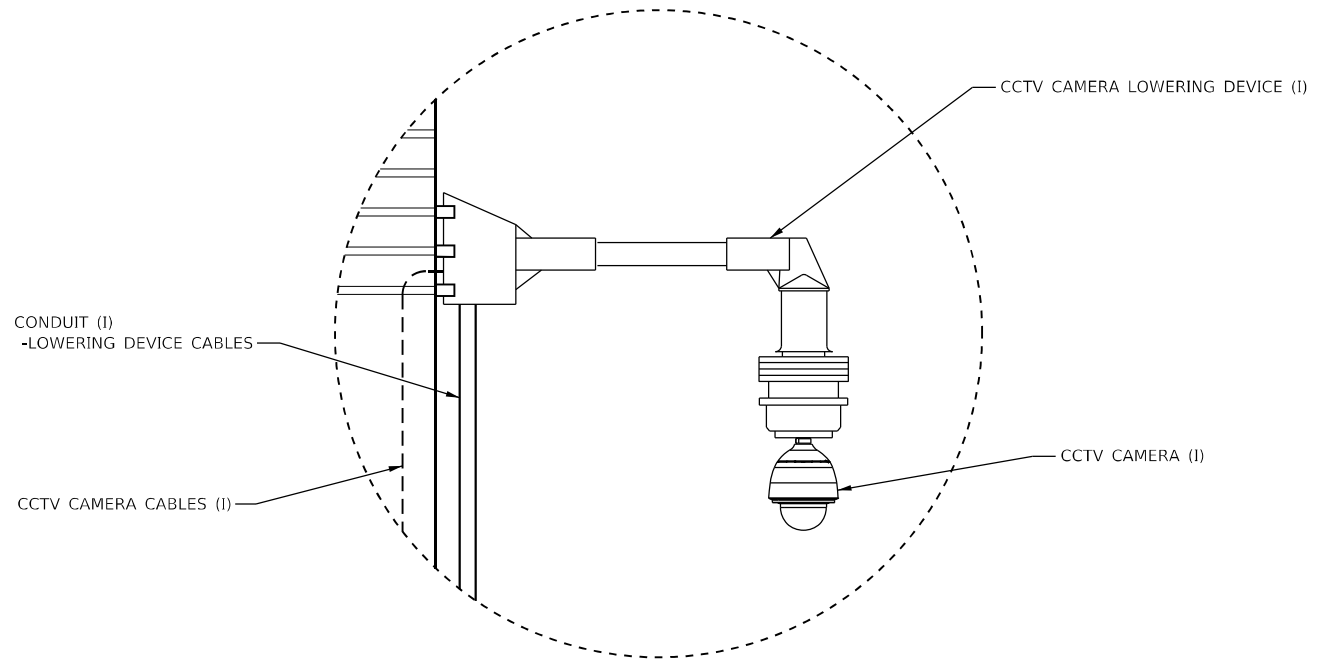
SCALE: NTS    SHEET 40 OF 51 SHEETS    STA. N/A    TO STA. N/A

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	288	120
CONTRACT NO.			60746	
ILLINOIS FED. AID PROJECT				

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**MONOPOLE AT REVLAC BUILDING "A" (FACING NORTHWEST)**  
N.T.S.

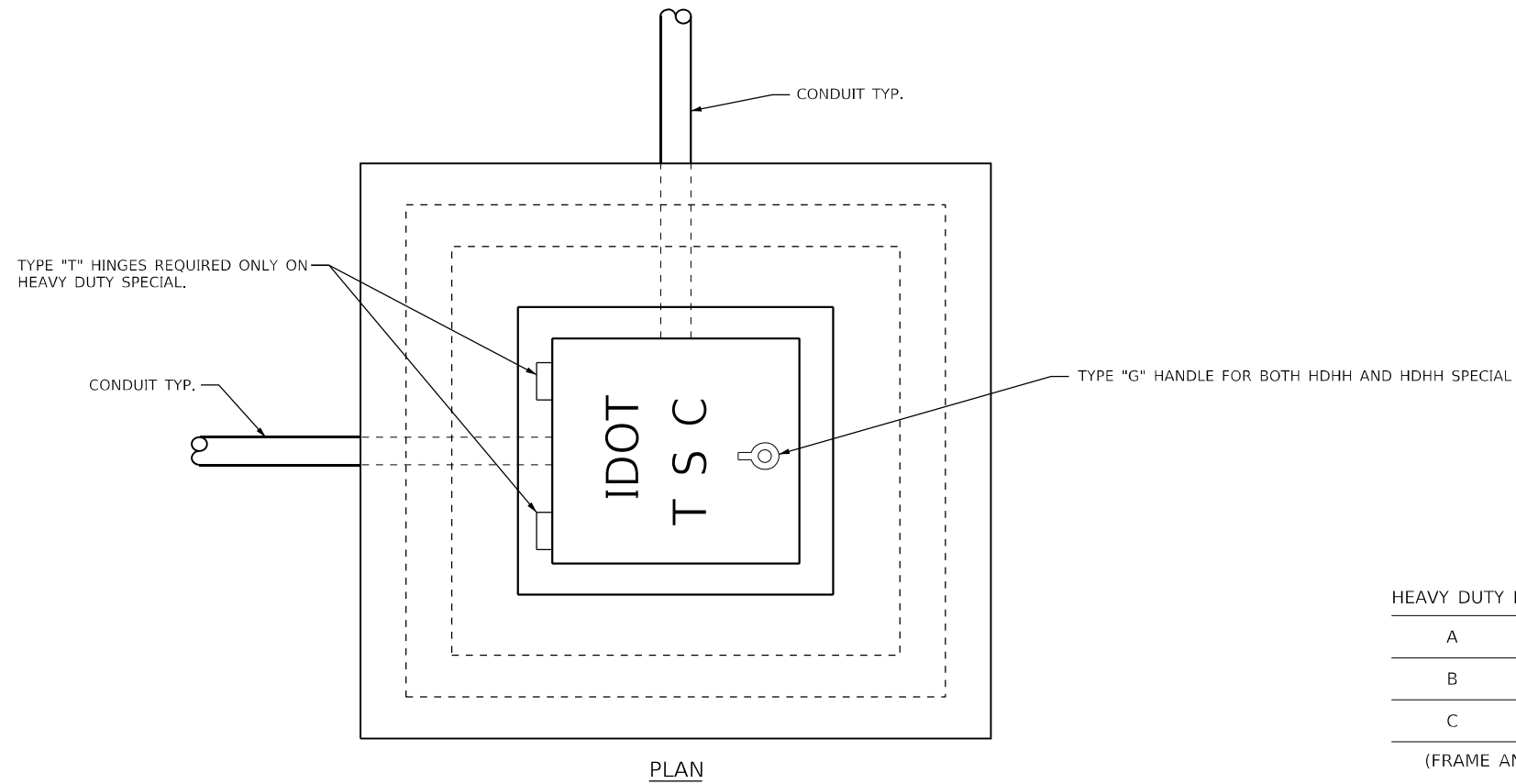


**DETAIL A**  
N.T.S.

**NOTES:**

1. ALL EQUIPMENT, CABLING, AND INFRASTRUCTURE ON THIS SHEET IS INCLUDED IN PAY ITEM "INSTALL CCTV LOWERING DEVICE AND REPLACE EXISTING CCTV LOWERING DEVICE".
2. NOT ALL MONOPOLE MOUNTED EQUIPMENT SHOWN FOR CLARITY.
3. CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT PRIOR TO BEGINNING WORK.
4. CONTRACTOR SHALL FIELD VERIFY CCTV CAMERA CABLE ROUTING FROM BUILDING TO CAMERA PRIOR TO BEGINNING WORK.

FILE NAME = D:\60746\hts-40.dgn <b>Jacobs</b> 525 W. Monroe, Suite 1600, Chicago, IL 60661	USER NAME = korabmp DESIGNED - JJZ DRAWN - RH PLOT SCALE = PLOT DATE = 3/22/2022	DESIGNED - JJZ CHECKED - CRH DATE - 1/27/2022	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ITS PLANS</b>	SCALE: NTS SHEET 41 OF 51 SHEETS STA. N/A TO STA. N/A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="font-size: small;">F.A.I. RTE.</th> <th style="font-size: small;">SECTION</th> <th style="font-size: small;">COUNTY</th> <th style="font-size: small;">TOTAL SHEETS</th> <th style="font-size: small;">SHEET NO.</th> </tr> <tr> <td style="font-size: x-small;">90/94</td> <td style="font-size: x-small;">2012-0081</td> <td style="font-size: x-small;">COOK</td> <td style="font-size: x-small;">268</td> <td style="font-size: x-small;">121</td> </tr> <tr> <td colspan="3" style="font-size: x-small;">CONTRACT NO.</td> <td colspan="2" style="font-size: x-small;">60746</td> </tr> </table>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	90/94	2012-0081	COOK	268	121	CONTRACT NO.			60746	
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																		
90/94	2012-0081	COOK	268	121																		
CONTRACT NO.			60746																			



HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

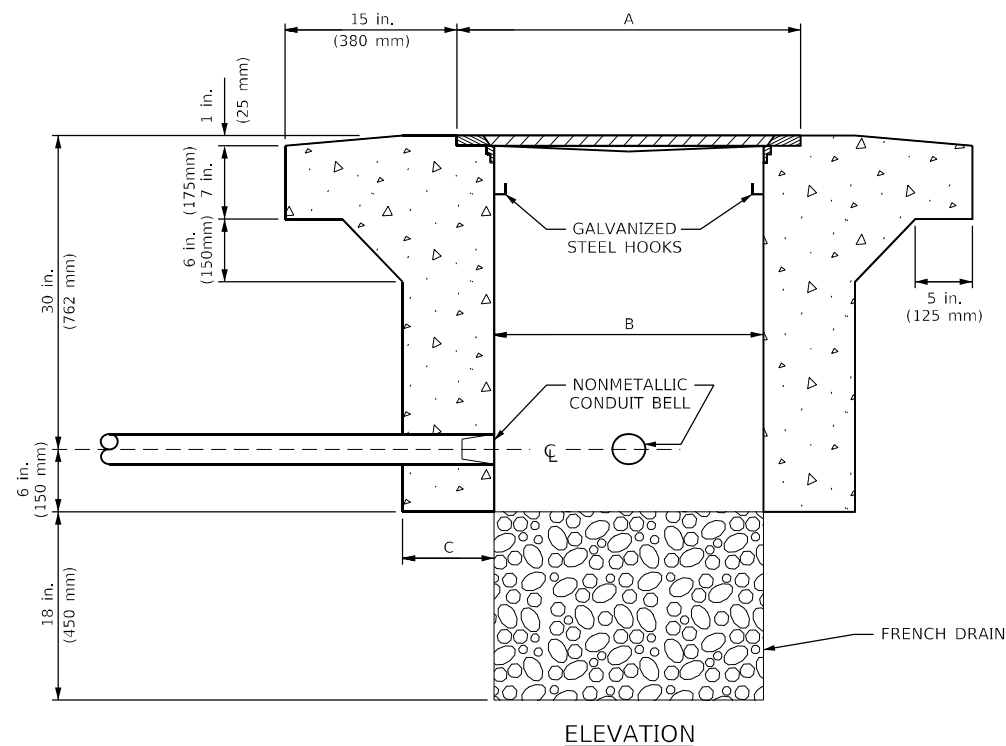
A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

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

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

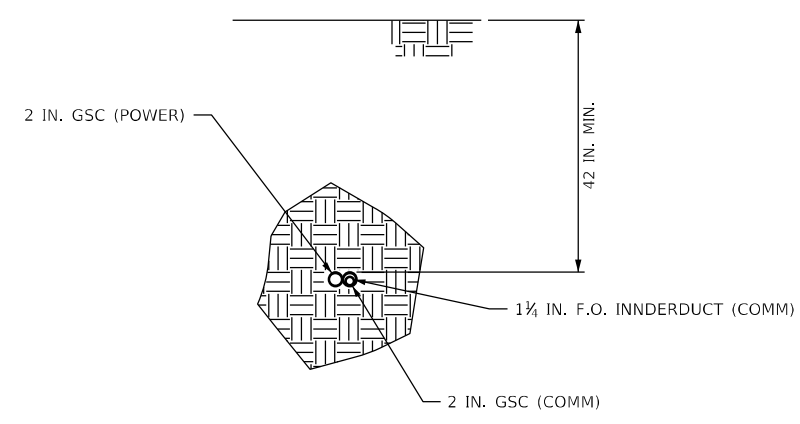
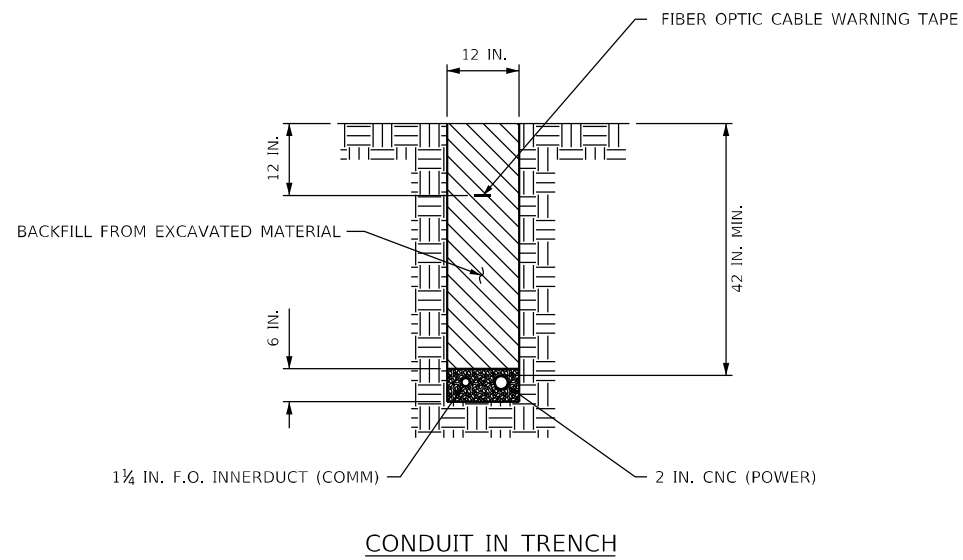
A	31.5" (800 mm)
B	30.0" (762 mm)
C	10.0" (250 mm)

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

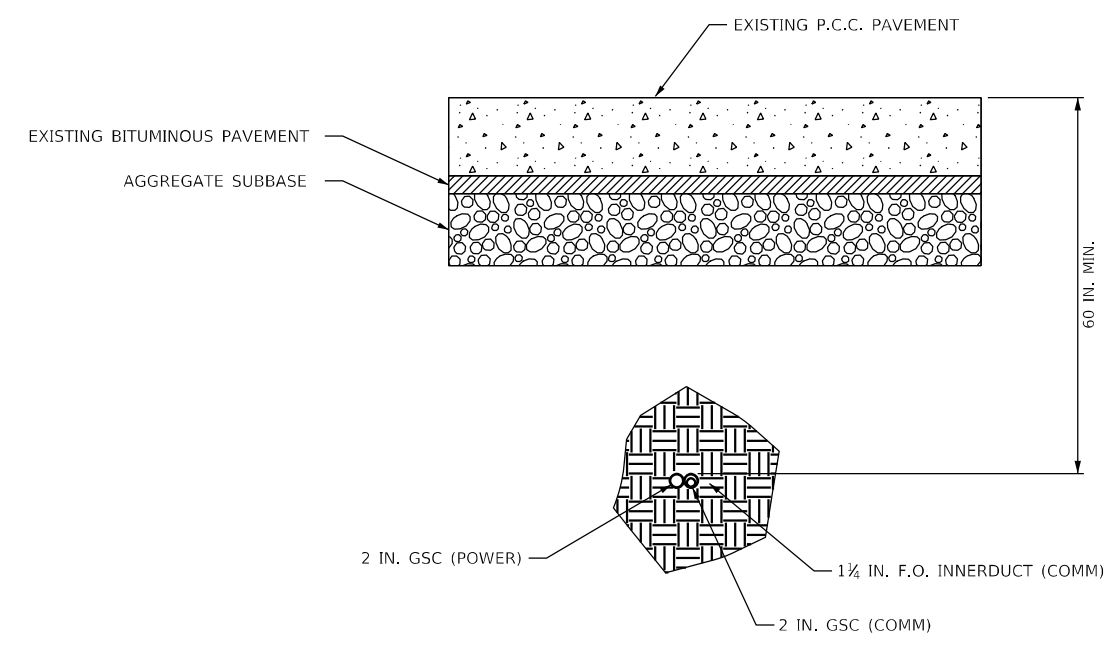


PC CONCRETE - HEAVY DUTY HANDHOLE

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**BORED CONDUIT IN UNPAVED AREAS**



**BORED CONDUIT UNDER ROADWAY**

NOTES:  
 1. CONDUITS FOR COMMUNICATIONS AND POWER ARE NOT NECESSARILY INSTALLED TOGETHER. INSTALLATION CONFIGURATION VARIES BY LOCATION.

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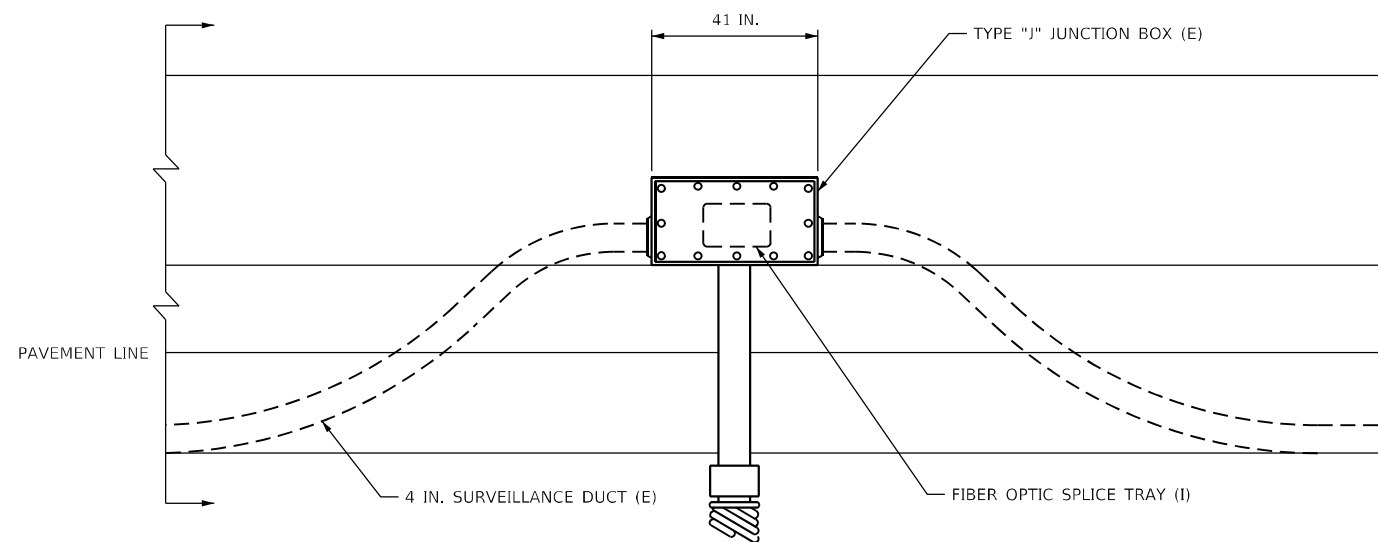
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<b>Jacobs</b>		DRAWN - RH	REVISED -
525 W. Monroe, Suite 1600, Chicago, IL 60661		CHECKED - CRH	REVISED -
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	PLOT DATE = 3/22/2022		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

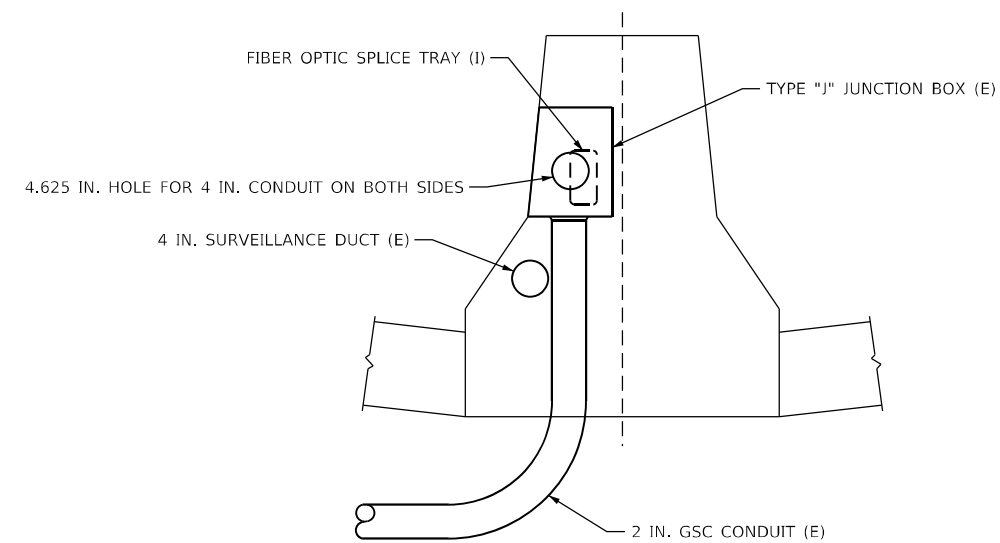
ITS PLANS CONDUIT INSTALLATION DETAILS			
SCALE: NTS	SHEET 43 OF 51 SHEETS	STA. N/A	TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	123
CONTRACT NO. 60T46			ILLINOIS FED. AID PROJECT	

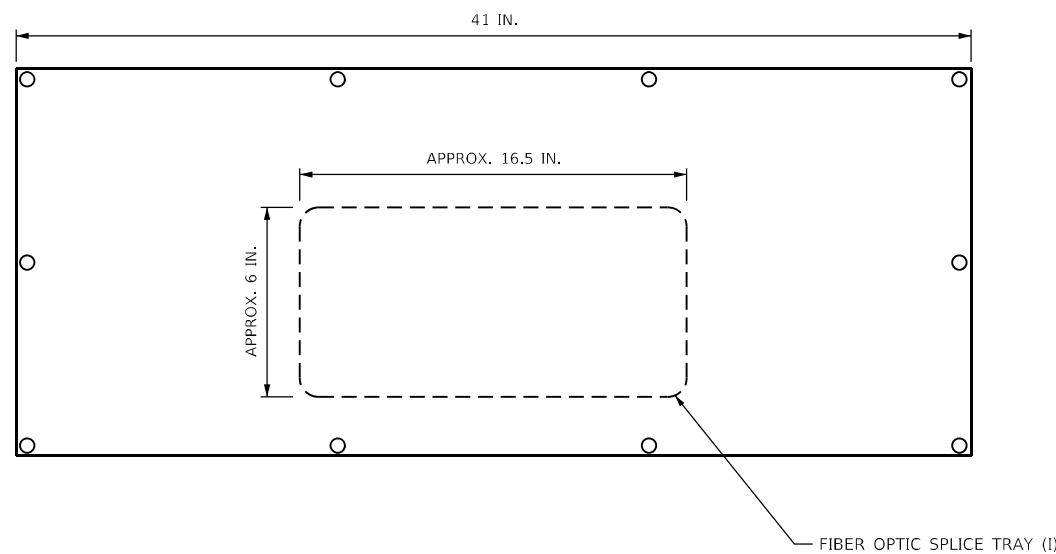
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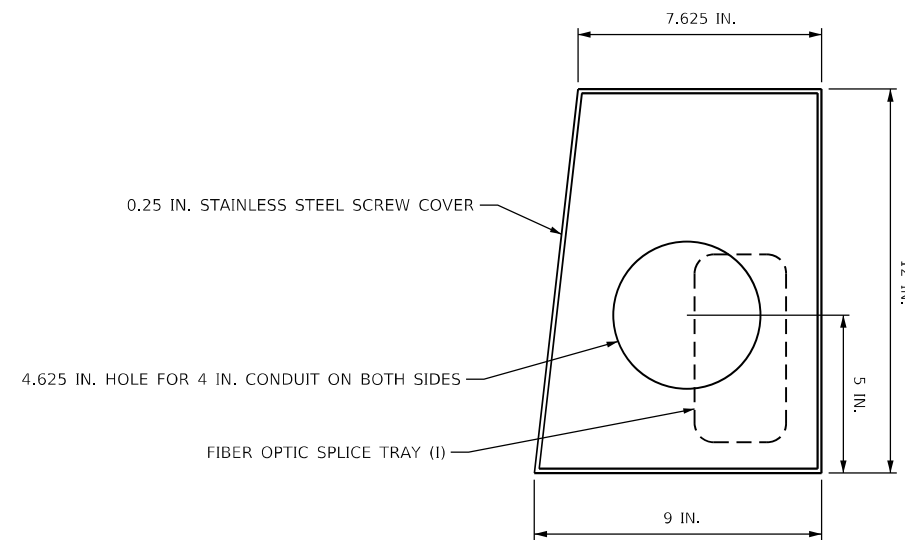
ELEVATION  
BARRIER WALL DUCT DETAIL



DOUBLE FACED BARRIER WALL



FRONT VIEW



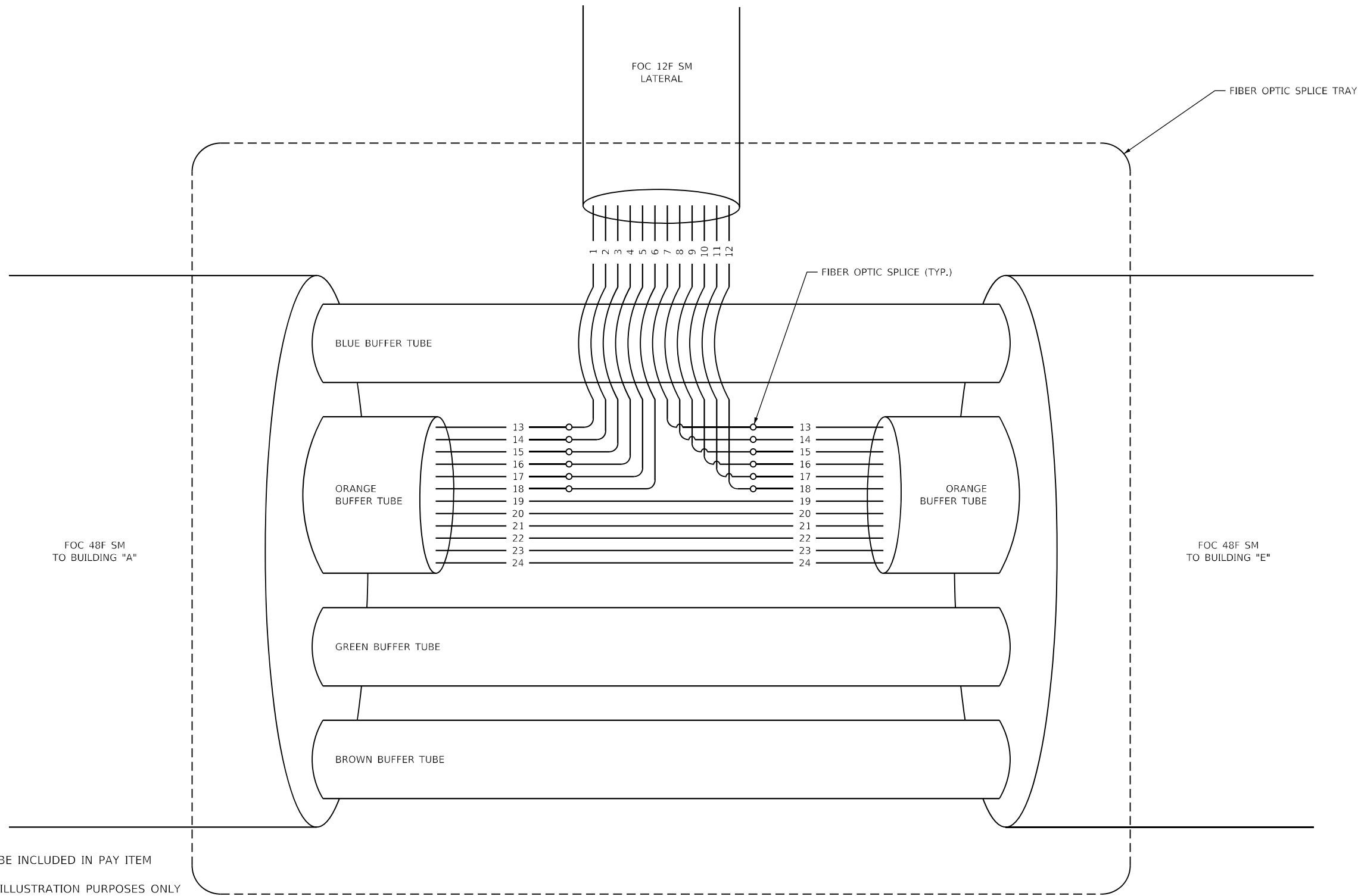
SIDE VIEW  
JUNCTION BOX TYPE "J"

NOTES:

1. FIBER OPTIC SPLICE TRAY SHALL BE INCLUDED IN PAY ITEM "F.O. SPLICE-LATERAL".

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**NOTES:**

1. FIBER OPTIC SPLICE TRAY SHALL BE INCLUDED IN PAY ITEM "F.O. SPLICE -LATERAL".
2. THIS DIAGRAM IS PROVIDED FOR ILLUSTRATION PURPOSES ONLY AND DEPICTS A TYPICAL FIBER OPTIC SPLICE FROM THE 48F SM BACKBONE FIBER OPTIC CABLE (RUNNING FROM BUILDING "A" TO BUILDING "E") TO A 12F SM LATERAL FIBER OPTIC CABLE.
3. FIBER OPTIC STRAND ASSIGNMENT SHALL BE PROVIDED BY THE ENGINEER IN THE FIELD. THE ENGINEER WILL COORDINATE WITH THE IDOT DISTRICT 1 ELECTRICAL GROUP AND THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR TO DETERMINE WHICH STRANDS ARE CURRENTLY AVAILABLE FOR USE. THE CONTRACTOR SHALL PROVIDE SYSTEMWIDE CONTINUITY DIAGRAM SHOWING WHICH CAMERAS ARE CONNECTED TO EACH FIBER STRANDS AND WHERE THEY TERMINATE AT REVLAC BUILDINGS ON NETWORK SWITCHES.

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**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

USER NAME = korabmp  
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 PLOT DATE = 3/22/2022

DESIGNED - JJZ  
 DRAWN - RH  
 CHECKED - CRH  
 DATE - 1/27/2022

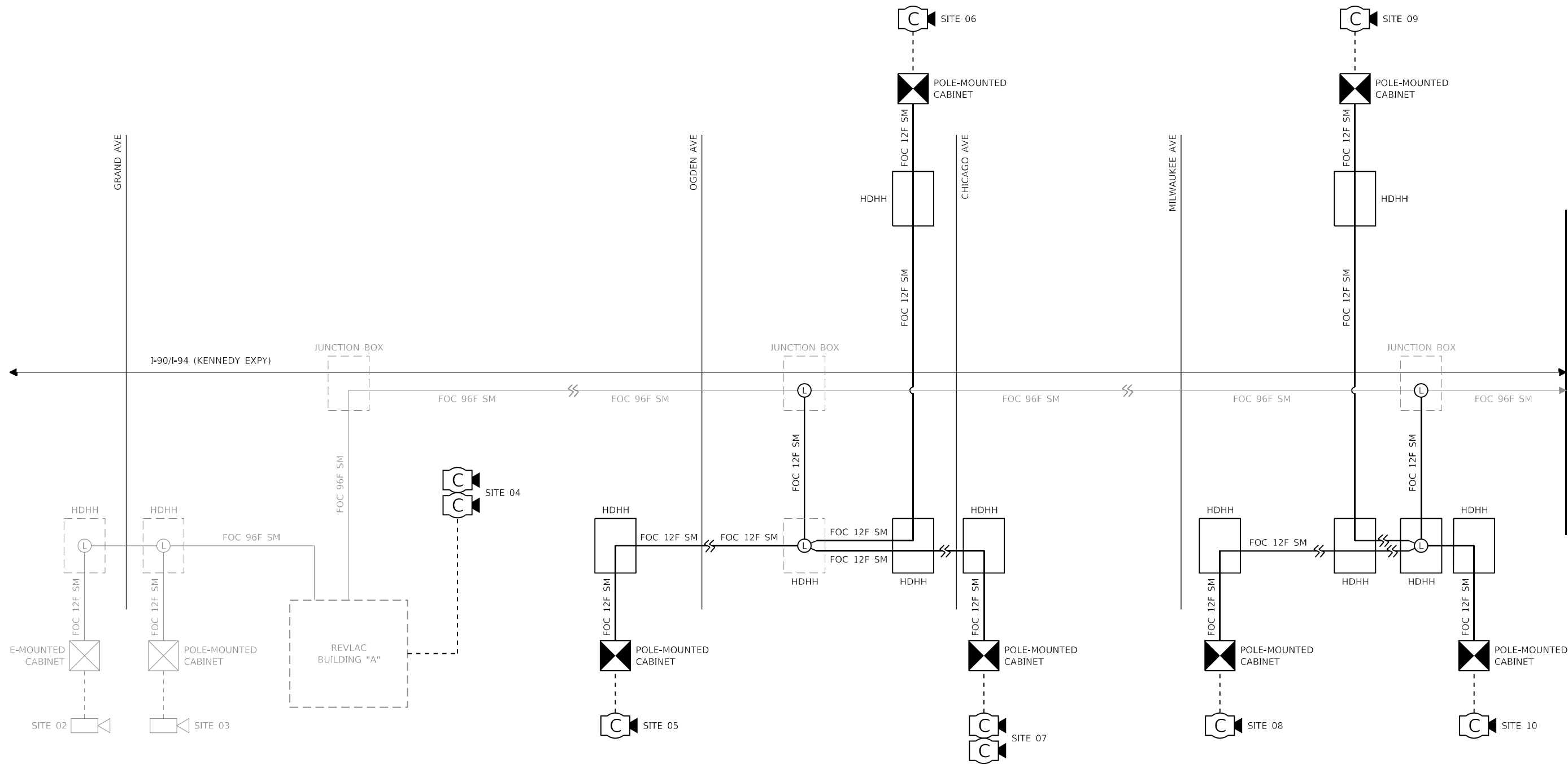
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 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ITS PLANS  
 FIBER OPTIC SPLICING TYPICAL**

SCALE: NTS SHEET 45 OF 51 SHEETS STA. N/A TO STA. N/A

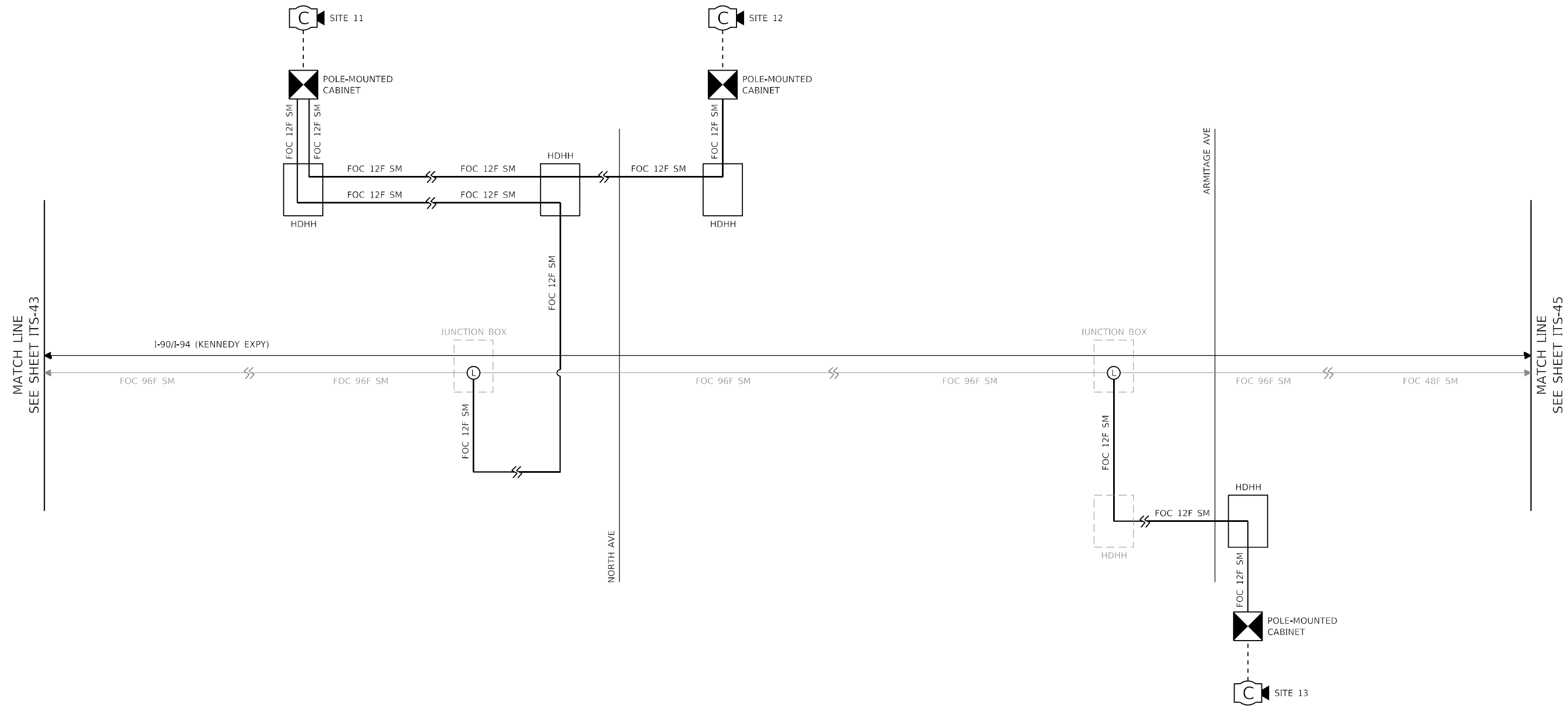
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	125
CONTRACT NO.			60T46	
ILLINOIS		FED. AID PROJECT		



LEGEND		
EXISTING	PROPOSED	
—	—	FIBER OPTIC CABLE
- - - -	- - - -	CCTV CAMERA/CAT-6 CABLES
⊕	⊕	SPLICE CLOSURE WITH LATERAL SPLICE
📹	📹	FIXED CCTV CAMERA
📹	📹	PTZ CCTV CAMERA
⊗	⊗	POLE-MOUNTED CABINET
⊗	⊗	GROUND MOUNTED CABINET
⊡	⊡	HANDHOLE

**NOTES:**

- NOT ALL EXISTING CAMERA CABINETS CONNECTED TO EXISTING BACKBONE FIBER CABLES ARE SHOWN FOR CLARITY AND SECURITY PURPOSES. EXISTING CAMERAS NOT SHOWN ARE ON DEDICATED FIBER OPTIC CABLE STRANDS AND SHALL NOT BE IMPACTED BY INSTALLATION OF NEW CAMERAS SYSTEMS.
- FIBER TRANSCEIVERS SHALL BE INSTALLED AT REVLAC BUILDINGS TO PROVIDE NETWORK CONNECTIONS BETWEEN PROPOSED CAMERAS AND DISTRIBUTION SWITCHES IN REVLAC BUILDINGS. THIS WORK WILL BE PAID FOR UNDER PAY ITEM "REVLAC COMMUNICATION AND NETWORK HARDWARE AND SOFTWARE, BUILDING \_\_\_".
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 05,06,07,08,09, AND 10 SHALL BE CONNECTED IN A DAISY-CHAIN BETWEEN REVLAC BUILDING "A" AND BULDING "D" DISTRIBUTION SWITCHES USING A SINGLE PAIR OF FIBERS.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 11,12, AND 13 SHALL BE CONNECTED IN A DAISY-CHAIN BETWEEN REVLAC BUILDING "A" AND BULDING "D" DISTRIBUTION SWITCHES USING A SINGLE PAIR OF FIBERS.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 14 AND 16A SHALL BE CONNECTED IN A COLLAPSED RING AT REVLAC BULDING "C" DISTRIBUTION SWITCH.
- CCTV CAMERA CABINET NETWORK SWITCH AT SITE 17 SHALL HAVE REDUNDANT CONNECTIONS TO THE REVLAC BUILDING "C" DISTRIBUTION SWITCH.
- CCTV CAMERA CABINET NETWORK SWITCH AT SITE 21 SHALL HAVE REDUNDANT CONNECTIONS TO THE REVALC BUILDING "D" DISTRIBUTION SWITCH.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 20A AND 22 SHALL BE CONNECTED IN A COLLAPSED RING AT REVLAC BULDING "C" DISTRIBUTION SWITCH.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 24, 25, AND 26 SHALL BE CONNECTED IN A DAISY-CHAIN BETWEEN REVLAC BUILDING "D" AND BULDING "E" DISTRIBUTION SWITCHES USING A SINGLE PAIR OF FIBERS.
- CCTV CAMERA CABINET NETWORK SWITCH AT SITES 27, 28, AND 29 SHALL BE CONNECTED IN A COLLAPSED RING AT REVALC BULDING "E" DISTRIBUTION SWITCH.
- FIXED CCTV CAMERAS USED TO MONITOR GATES AND DIRECTLY CONNECTED TO REVLAC BUILDINGS ARE NOT SHOWN ON THIS SHEET FOR CLARITY. EACH FIXED CAMERA REPLACED AS CALLED OUT ON THE "PROPOSED CCTV PLANS" SHALL HAVE A MEDIA CONVERTER OR FIBER TRANSCEIVER CONNECTED TO THE DISTRIBUTION SWITCHES IN THE CORRESPONDING BUILDINGS.



LEGEND		
EXISTING	PROPOSED	
		FIBER OPTIC CABLE
		CCTV CAMERA/CAT-6 CABLES
		SPLICE CLOSURE WITH LATERAL SPLICE
		FIXED CCTV CAMERA
		PTZ CCTV CAMERA
		POLE-MOUNTED CABINET
		GROUND MOUNTED CABINET
		HANDHOLE

**NOTES:**

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- CCTV CAMERA CABINET NETWORK SWITCH AT SITE 17 SHALL HAVE REDUNDANT CONNECTIONS TO THE REVLAC BUILDING "C" DISTRIBUTION SWITCH.
- CCTV CAMERA CABINET NETWORK SWITCH AT SITE 21 SHALL HAVE REDUNDANT CONNECTIONS TO THE REVLAC BUILDING "D" DISTRIBUTION SWITCH.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 20A AND 22 SHALL BE CONNECTED IN A COLLAPSED RING AT REVLAC BUILDING "C" DISTRIBUTION SWITCH.
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**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

USER NAME = korabmp	DESIGNED - JJZ	REVISED -
PLOT SCALE =	DRAWN - HRH	REVISED -
PLOT DATE = 3/23/2022	CHECKED - CRH	REVISED -
	DATE - 1/27/2022	REVISED -

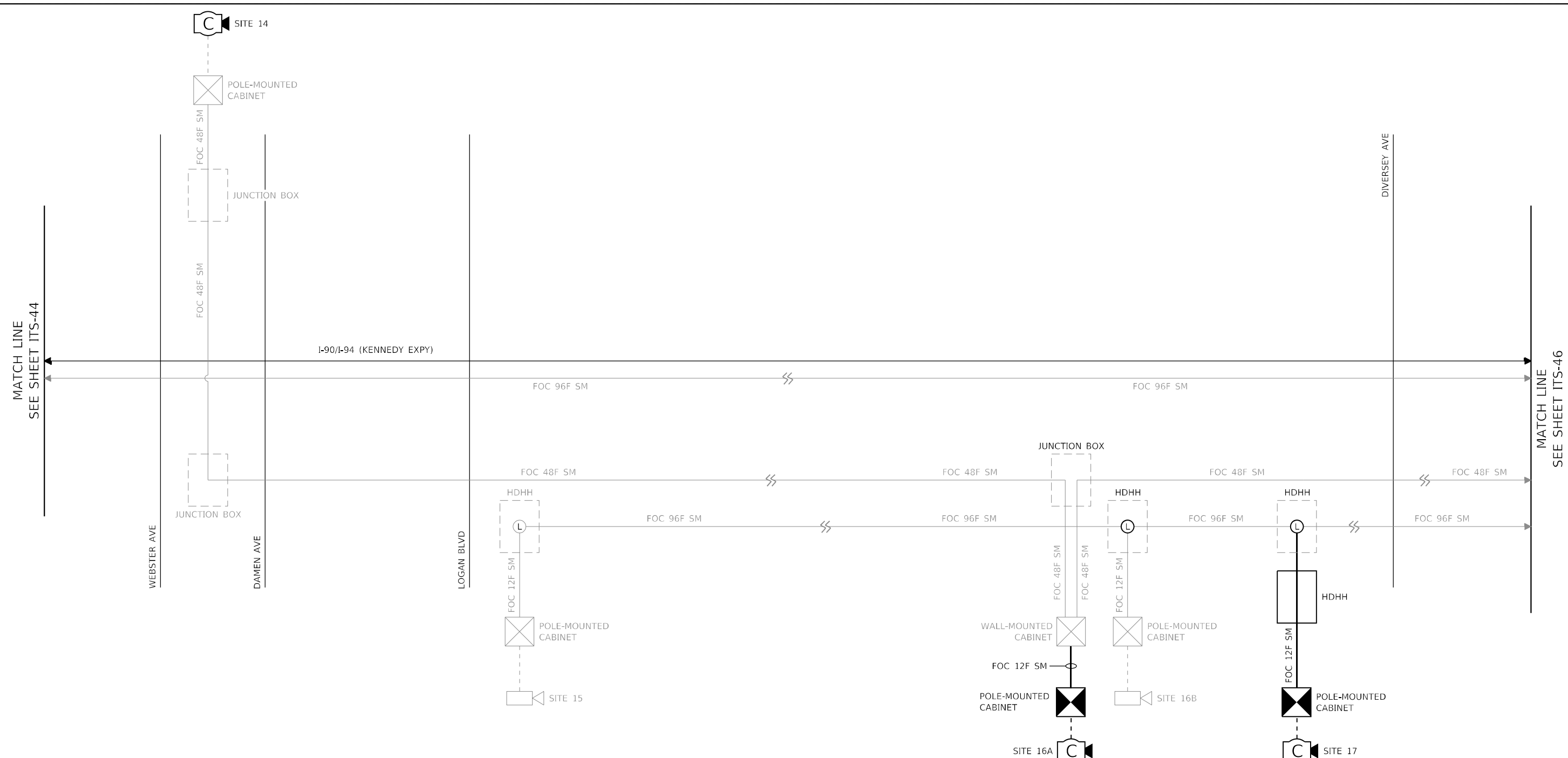
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS**  
**FIBER OPTIC CABLE SINGLE LINE DIAGRAM**  
 SCALE: NTS SHEET 47 OF 51 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	127
CONTRACT NO. 60T46			ILLINOIS FED. AID PROJECT	

ITS-46

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EXISTING		PROPOSED		
				FIBER OPTIC CABLE
				CCTV CAMERA/CAT-6 CABLES
				SPLICE CLOSURE WITH LATERAL SPLICE
				FIXED CCTV CAMERA
				PTZ CCTV CAMERA
				POLE-MOUNTED CABINET
				GROUND MOUNTED CABINET
				HANDHOLE

**NOTES:**

- NOT ALL EXISTING CAMERA CABINETS CONNECTED TO EXISTING BACKBONE FIBER CABLES ARE SHOWN FOR CLARITY AND SECURITY PURPOSES. EXISTING CAMERAS NOT SHOWN ARE ON DEDICATED FIBER OPTIC CABLE STRANDS AND SHALL NOT BE IMPACTED BY INSTALLATION OF NEW CAMERAS SYSTEMS.
- FIBER TRANSCEIVERS SHALL BE INSTALLED AT REVLAC BUILDINGS TO PROVIDE NETWORK CONNECTIONS BETWEEN PROPOSED CAMERAS AND DISTRIBUTION SWITCHES IN REVLAC BUILDINGS. THIS WORK WILL BE PAID FOR UNDER PAY ITEM "REVLAC COMMUNICATION AND NETWORK HARDWARE AND SOFTWARE, BUILDING \_\_\_".
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 05,06,07,08,09, AND 10 SHALL BE CONNECTED IN A DAISY-CHAIN BETWEEN REVLAC BUILDING "A" AND BUILDING "D" DISTRIBUTION SWITCHES USING A SINGLE PAIR OF FIBERS.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 11,12, AND 13 SHALL BE CONNECTED IN A DAISY-CHAIN BETWEEN REVLAC BUILDING "A" AND BUILDING "D" DISTRIBUTION SWITCHES USING A SINGLE PAIR OF FIBERS.
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- CCTV CAMERA CABINET NETWORK SWITCH AT SITE 21 SHALL HAVE REDUNDANT CONNECTIONS TO THE REVLAC BUILDING "D" DISTRIBUTION SWITCH.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 20A AND 22 SHALL BE CONNECTED IN A COLLAPSED RING AT REVLAC BUILDING "C" DISTRIBUTION SWITCH.
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**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

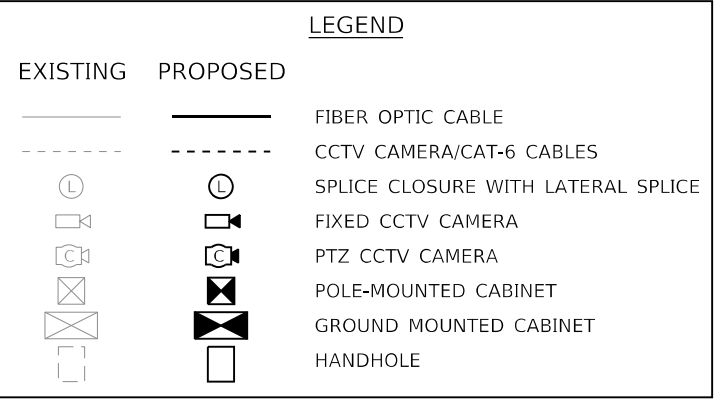
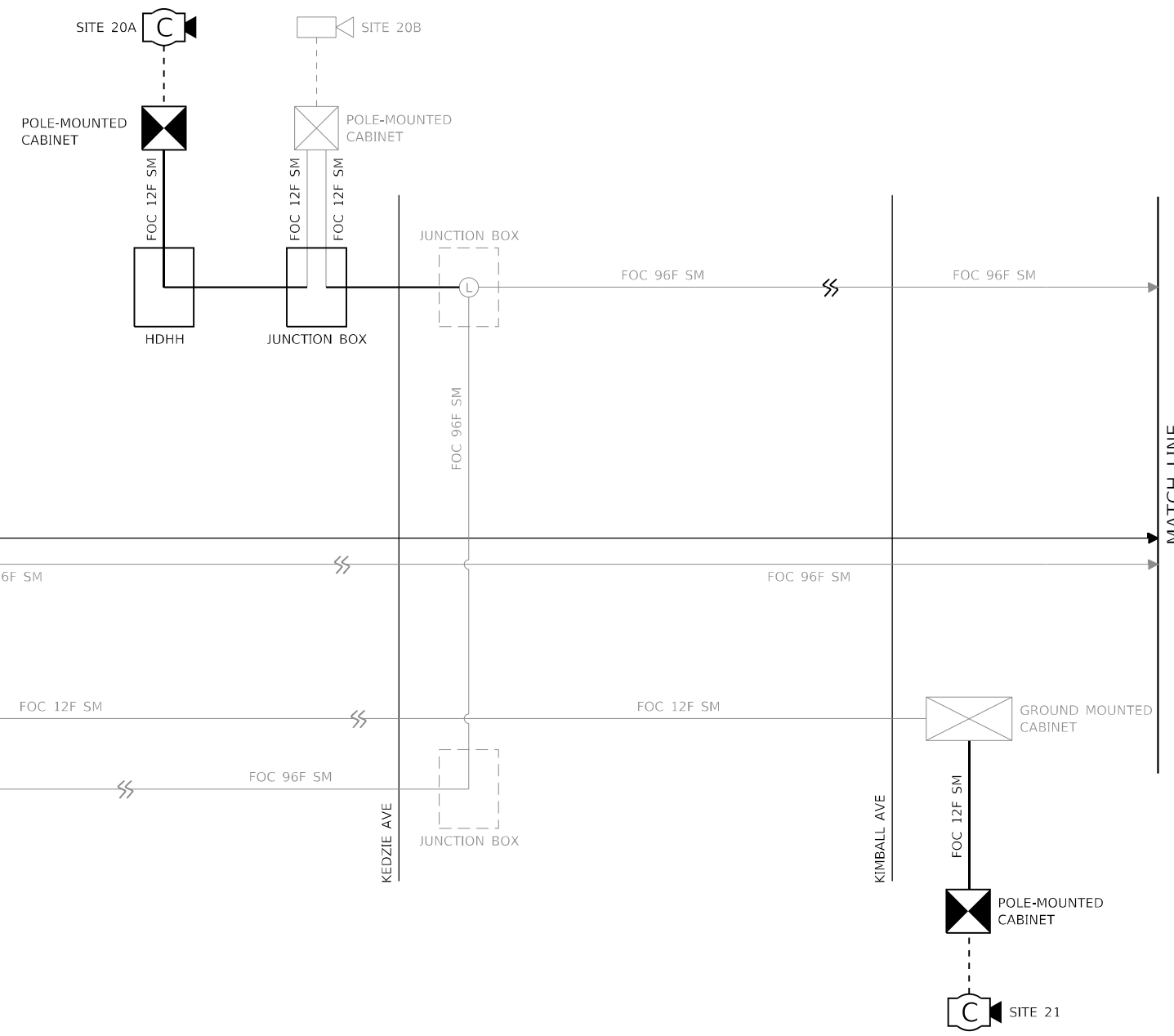
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PLOT SCALE =	DRAWN - HRH	REVISED -
PLOT DATE = 3/23/2022	CHECKED - CRH	REVISED -
	DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ITS PLANS			
FIBER OPTIC CABLE SINGLE LINE DIAGRAM			
SCALE: NTS	SHEET 48	OF 51 SHEETS	STA. N/A TO STA. N/A

F.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 128
CONTRACT NO. 60T46			ILLINOIS FED. AID PROJECT	

ITS-47



**NOTES:**

- NOT ALL EXISTING CAMERA CABINETS CONNECTED TO EXISTING BACKBONE FIBER CABLES ARE SHOWN FOR CLARITY AND SECURITY PURPOSES. EXISTING CAMERAS NOT SHOWN ARE ON DEDICATED FIBER OPTIC CABLE STRANDS AND SHALL NOT BE IMPACTED BY INSTALLATION OF NEW CAMERAS SYSTEMS.
- FIBER TRANSCEIVERS SHALL BE INSTALLED AT REVLAC BUILDINGS TO PROVIDE NETWORK CONNECTIONS BETWEEN PROPOSED CAMERAS AND DISTRIBUTION SWITCHES IN REVLAC BUILDINGS. THIS WORK WILL BE PAID FOR UNDER PAY ITEM "REVLAC COMMUNICATION AND NETWORK HARDWARE AND SOFTWARE, BUILDING \_\_\_".
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 05,06,07,08,09, AND 10 SHALL BE CONNECTED IN A DAISY-CHAIN BETWEEN REVLAC BUILDING "A" AND BUILDING "D" DISTRIBUTION SWITCHES USING A SINGLE PAIR OF FIBERS.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 11,12, AND 13 SHALL BE CONNECTED IN A DAISY-CHAIN BETWEEN REVLAC BUILDING "A" AND BUILDING "D" DISTRIBUTION SWITCHES USING A SINGLE PAIR OF FIBERS.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 14 AND 16A SHALL BE CONNECTED IN A COLLAPSED RING AT REVLAC BUILDING "C" DISTRIBUTION SWITCH.
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- CCTV CAMERA CABINET NETWORK SWITCH AT SITE 21 SHALL HAVE REDUNDANT CONNECTIONS TO THE REVLAC BUILDING "D" DISTRIBUTION SWITCH.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 20A AND 22 SHALL BE CONNECTED IN A COLLAPSED RING AT REVLAC BUILDING "C" DISTRIBUTION SWITCH.
- CCTV CAMERA CABINET NETWORK SWITCHES AT SITES 24, 25, AND 26 SHALL BE CONNECTED IN A DAISY-CHAIN BETWEEN REVLAC BUILDING "D" AND BUILDING "E" DISTRIBUTION SWITCHES USING A SINGLE PAIR OF FIBERS.
- CCTV CAMERA CABINET NETWORK SWITCH AT SITES 27, 28, AND 29 SHALL BE CONNECTED IN A COLLAPSED RING AT REVLAC BUILDING "E" DISTRIBUTION SWITCH.
- FIXED CCTV CAMERAS USED TO MONITOR GATES AND DIRECTLY CONNECTED TO REVLAC BUILDINGS ARE NOT SHOWN ON THIS SHEET FOR CLARITY. EACH FIXED CAMERA REPLACED AS CALLED OUT ON THE "PROPOSED CCTV PLANS" SHALL HAVE A MEDIA CONVERTER OR FIBER TRANSCEIVER CONNECTED TO THE DISTRIBUTION SWITCHES IN THE CORRESPONDING BUILDINGS.

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**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

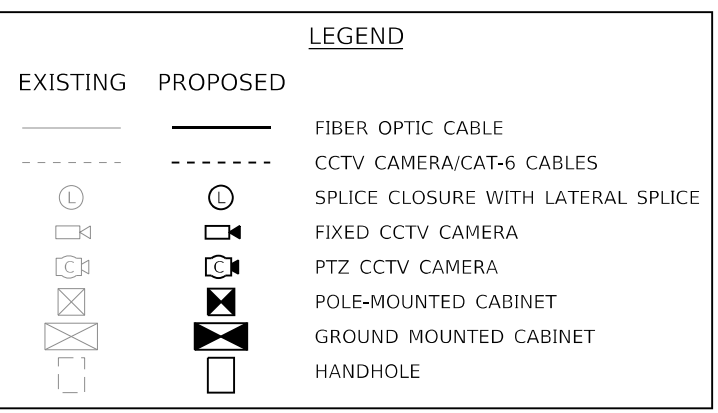
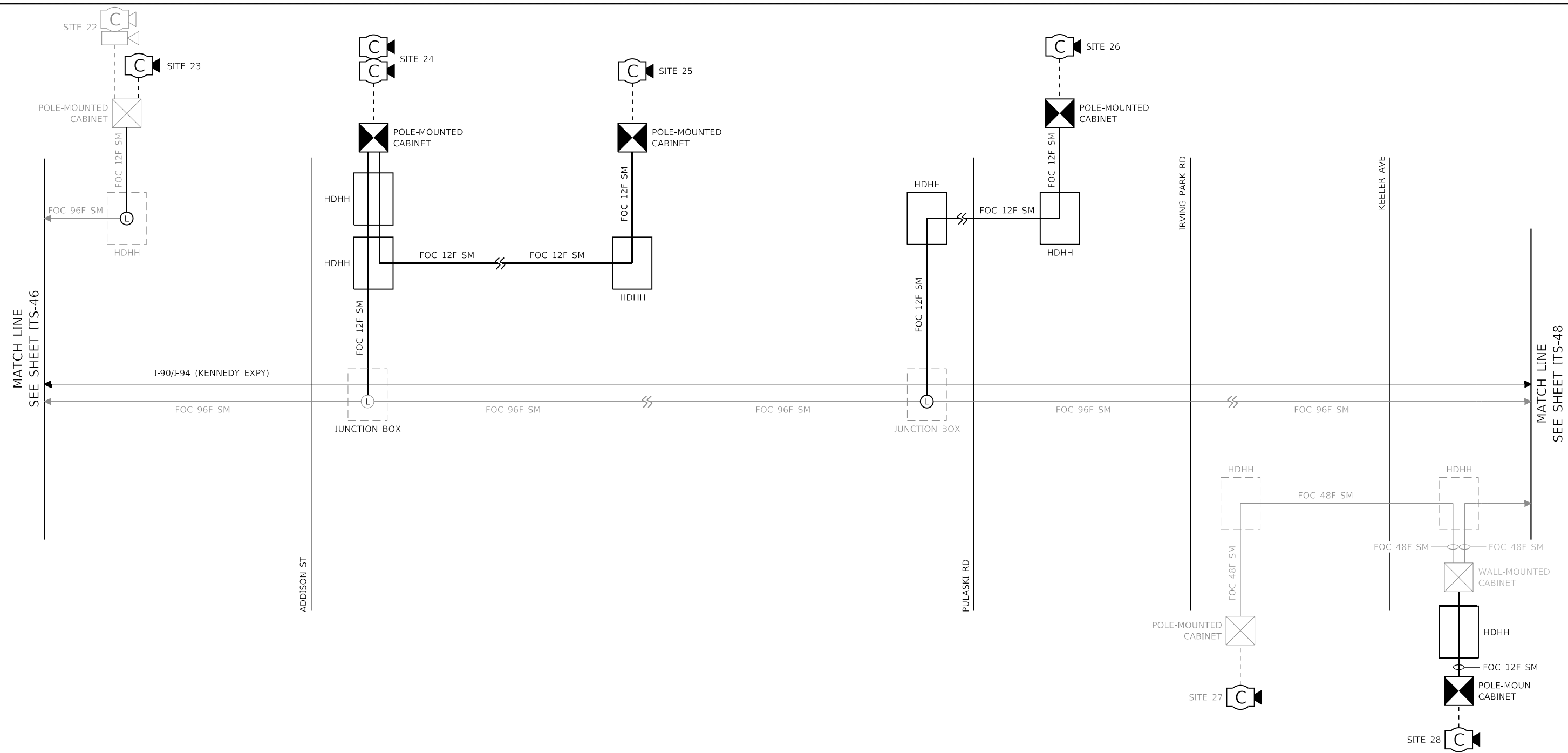
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	DATE - 1/27/2022	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ITS PLANS**  
**FIBER OPTIC CABLE SINGLE LINE DIAGRAM**  
 SCALE: NTS SHEET 49 OF 51 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	129
CONTRACT NO.			60746	
ILLINOIS FED. AID PROJECT				

ITS-48



**NOTES:**

- NOT ALL EXISTING CAMERA CABINETS CONNECTED TO EXISTING BACKBONE FIBER CABLES ARE SHOWN FOR CLARITY AND SECURITY PURPOSES. EXISTING CAMERAS NOT SHOWN ARE ON DEDICATED FIBER OPTIC CABLE STRANDS AND SHALL NOT BE IMPACTED BY INSTALLATION OF NEW CAMERAS SYSTEMS.
- FIBER TRANSCEIVERS SHALL BE INSTALLED AT REVLAC BUILDINGS TO PROVIDE NETWORK CONNECTIONS BETWEEN PROPOSED CAMERAS AND DISTRIBUTION SWITCHES IN REVLAC BUILDINGS. THIS WORK WILL BE PAID FOR UNDER PAY ITEM "REVLAC COMMUNICATION AND NETWORK HARDWARE AND SOFTWARE, BUILDING \_\_\_".
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**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

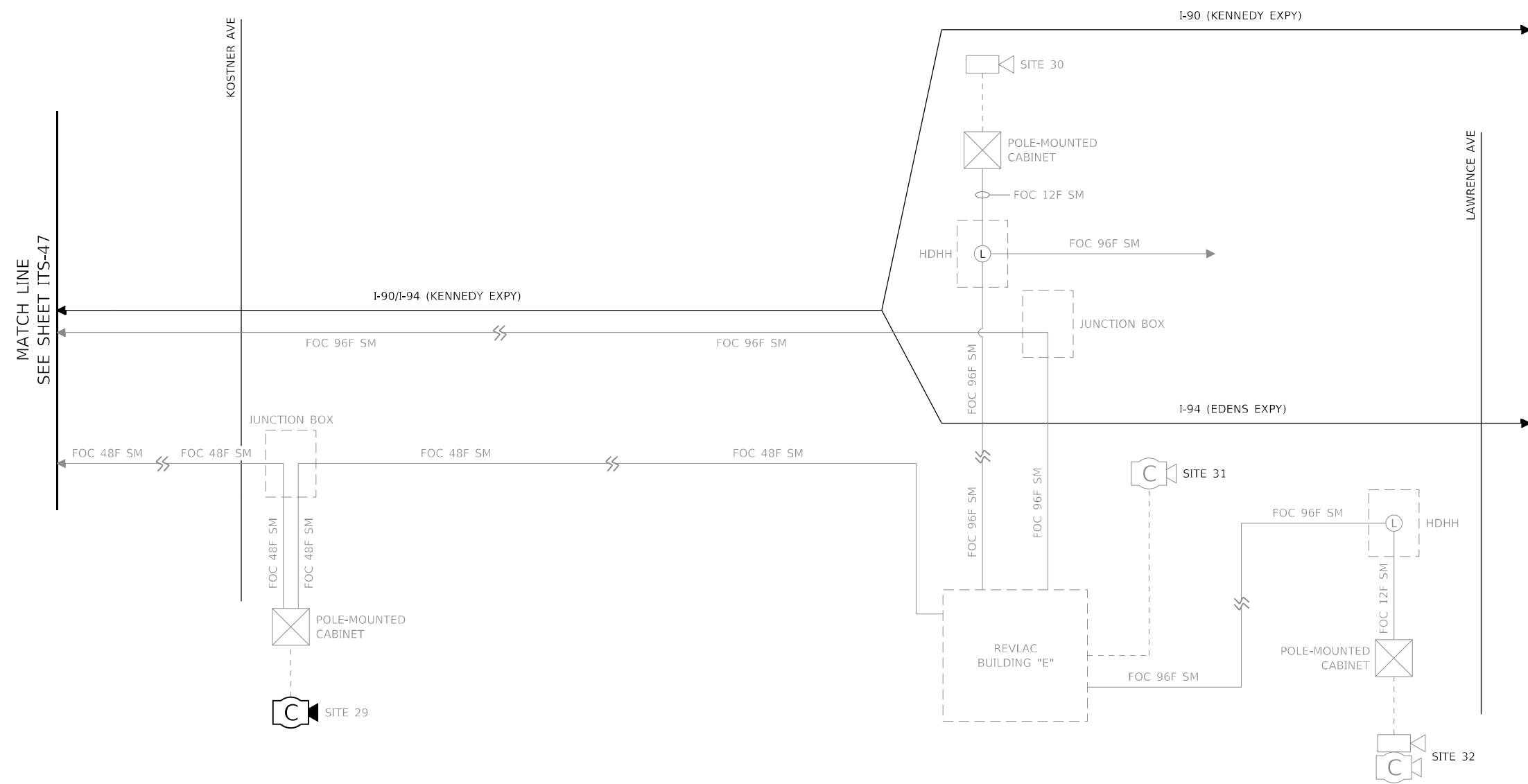
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 DRAWN - HRH  
 CHECKED - CRH  
 DATE - 1/27/2022

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ITS PLANS  
 FIBER OPTIC CABLE SINGLE LINE DIAGRAM**  
 SCALE: NTS SHEET 50 OF 51 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	130
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				



LEGEND		
EXISTING	PROPOSED	
—	—	FIBER OPTIC CABLE
- - -	- - -	CCTV CAMERA/CAT-6 CABLES
⊕	⊕	SPLICE CLOSURE WITH LATERAL SPLICE
📹	📹	FIXED CCTV CAMERA
📹	📹	PTZ CCTV CAMERA
⊗	⊗	POLE-MOUNTED CABINET
⊗	⊗	GROUND MOUNTED CABINET
⊔	⊔	HANDHOLE

**NOTES:**

- NOT ALL EXISTING CAMERA CABINETS CONNECTED TO EXISTING BACKBONE FIBER CABLES ARE SHOWN FOR CLARITY AND SECURITY PURPOSES. EXISTING CAMERAS NOT SHOWN ARE ON DEDICATED FIBER OPTIC CABLE STRANDS AND SHALL NOT BE IMPACTED BY INSTALLATION OF NEW CAMERAS SYSTEMS.
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**Jacobs**  
 525 W. Monroe, Suite 1600, Chicago, IL 60661

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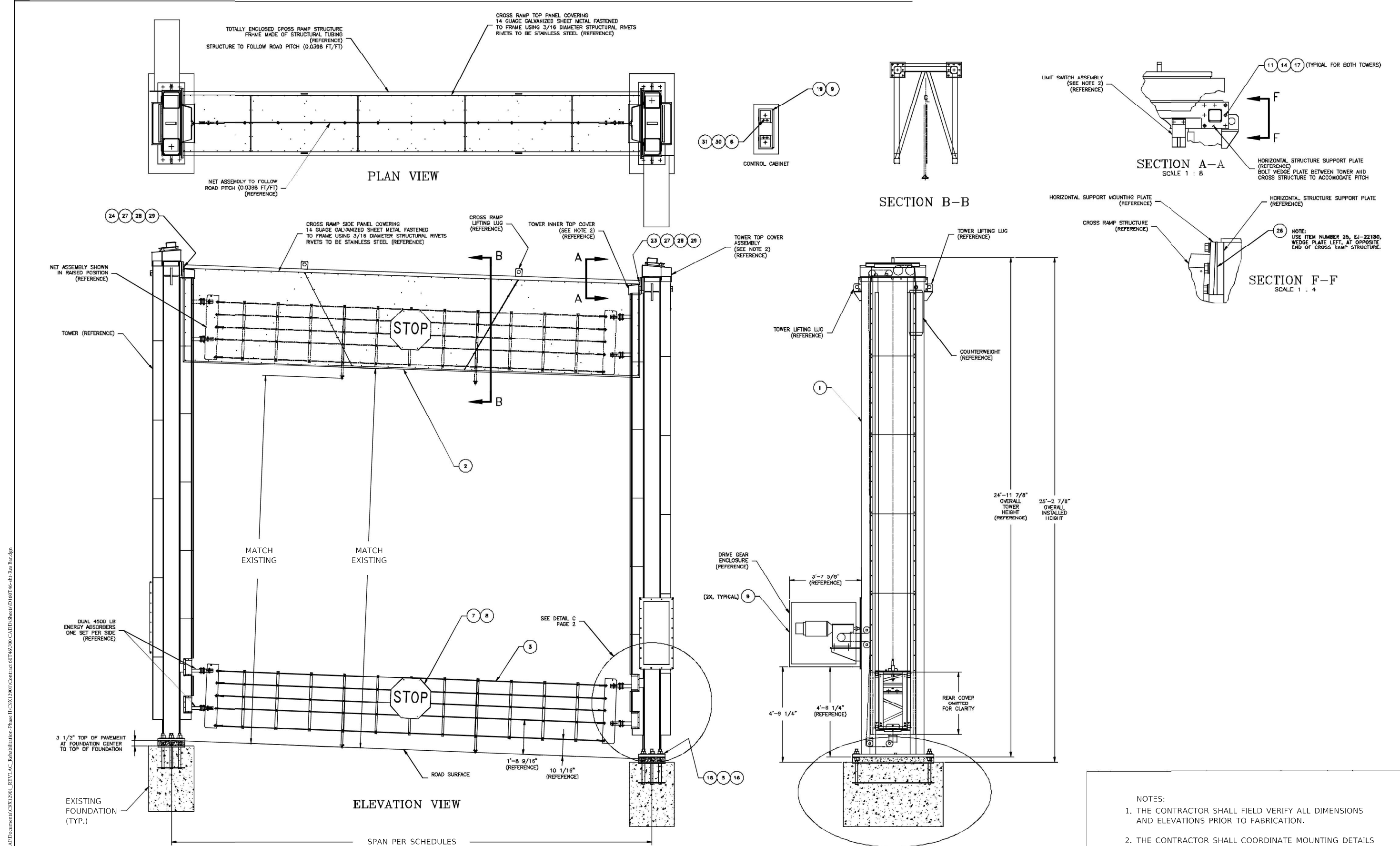
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ITS PLANS  
 FIBER OPTIC CABLE SINGLE LINE DIAGRAM**  
 SCALE: NTS SHEET 51 OF 51 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	131
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				

ITS-50



NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION.
2. THE CONTRACTOR SHALL COORDINATE MOUNTING DETAILS WITH THE EXISTING ANCHOR BOLTS AND FOUNDATION.

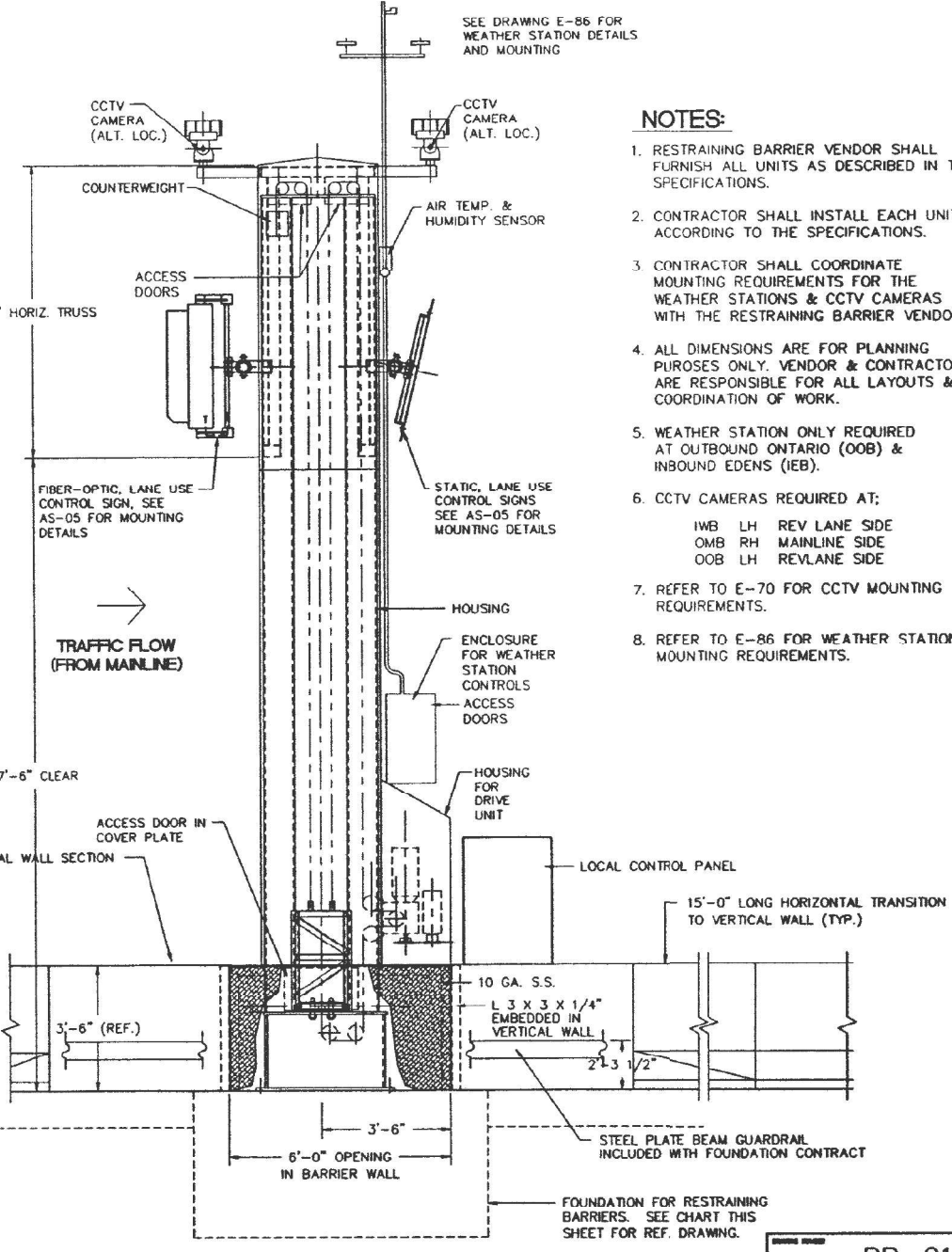
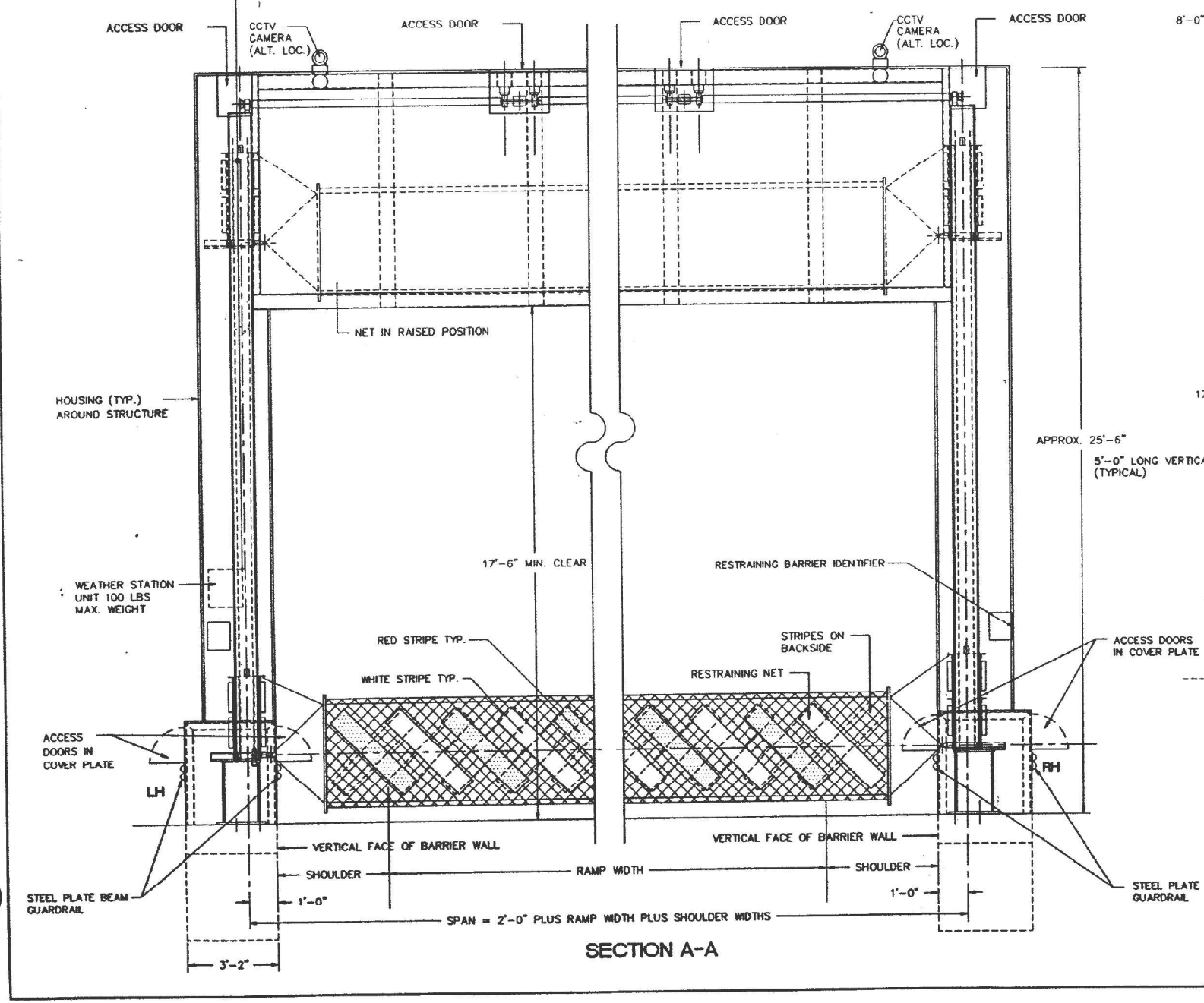
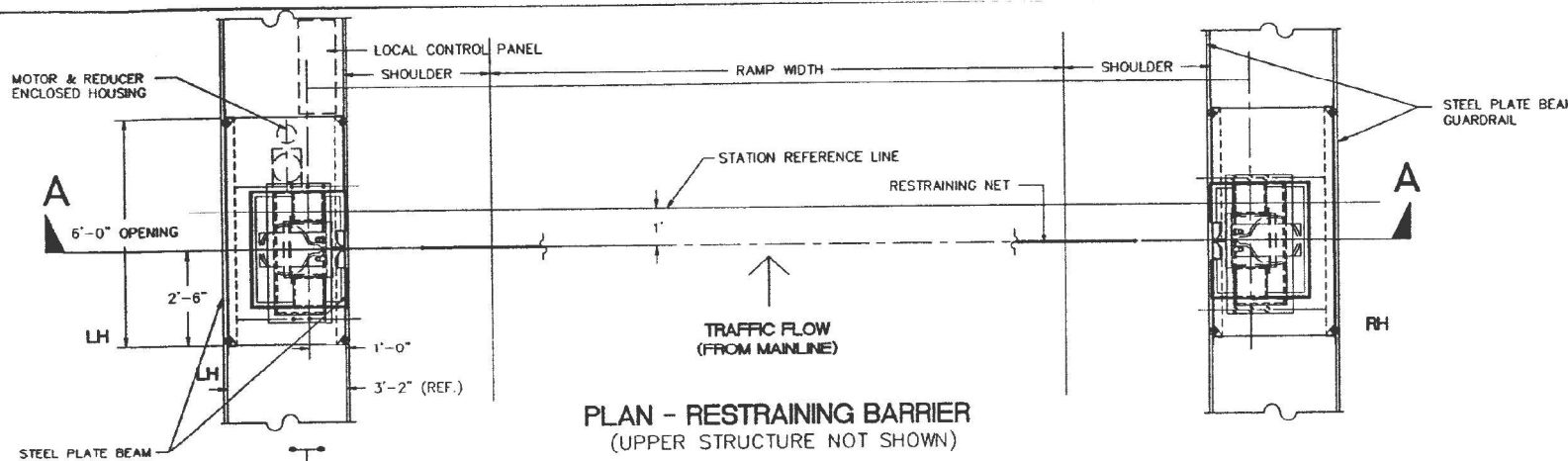
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	PLOT SCALE = 2.00' / in.	CHECKED - CS	REVISED -			90/94	2012-0081	COOK	288	132
PLOT DATE = 3/22/2022	DATE = 1/27/2022	REVISED -	REVISED -	SCALE: NTS	SHEET 1 OF 25 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 60T46	TG-01	ILLINOIS FED. AID PROJECT





NO. 90/94	SECTION	COUNT	SHEETS	TOTAL
		COOK	333	29
* 1991 - 002 I				

RESTRAINING BARRIER SUMMARY				
GATE NO.	STATION NO.	STATION REFERENCE	RESTR. BARRIER SPAN	FOUNDATION REF. DWG
OOB	304+65	W.B. ONTARIO STREET RAMP "F"	28'-0"	RB-03
OMB	18+90	N.W.B. KENNEDY RAMP "G"	22'-3 1/4"	RB-02
OSB	12+25	OUTBOUND SLIP RAMP	35'-10 1/4"	RB-05
ISB	16+00	INBOUND SLIP RAMP	36'-2 1/2"	RB-04
IWB	835+20	REVERSIBLE LANE	28'-11 1/4"	RB-06
IEB	958+25	S.E.B. REVERSIBLE RAMP	28'-0"	RB-07



- NOTES:**
- RESTRAINING BARRIER VENDOR SHALL FURNISH ALL UNITS AS DESCRIBED IN THE SPECIFICATIONS.
  - CONTRACTOR SHALL INSTALL EACH UNIT ACCORDING TO THE SPECIFICATIONS.
  - CONTRACTOR SHALL COORDINATE MOUNTING REQUIREMENTS FOR THE WEATHER STATIONS & CCTV CAMERAS WITH THE RESTRAINING BARRIER VENDOR.
  - ALL DIMENSIONS ARE FOR PLANNING PURPOSES ONLY. VENDOR & CONTRACTOR ARE RESPONSIBLE FOR ALL LAYOUTS & COORDINATION OF WORK.
  - WEATHER STATION ONLY REQUIRED AT OUTBOUND ONTARIO (OOB) & INBOUND EDENS (IEB).
  - CCTV CAMERAS REQUIRED AT:  
IWB LH REV LANE SIDE  
OMB RH MAINLINE SIDE  
OOB LH REV LANE SIDE
  - REFER TO E-70 FOR CCTV MOUNTING REQUIREMENTS.
  - REFER TO E-86 FOR WEATHER STATION MOUNTING REQUIREMENTS.

- NOTES:**
- THIS DRAWING DIFFERS FROM BID SET DRAWING RB-01. CHANGES ARE BLOCKED AND MARKED, "Δ".
  - RESTRAINING BARRIER SPANS REVISED, SEE TABLE.

NO.	DATE	REVISION	BY
06/09/93		REVISED RESTR. BARRIER SPANS	
02/19/93		ISSUED FOR REV. AC BID	
01/15/93		REV. AC PRELIMINARY REVIEW	
10/09/92		REV. AC PRELIMINARY	
09/28/92		RESTRAINING BARRIER BID	
05/15/91		PRELIMINARY REVIEW	
10/16/90		PRELIMINARY BARRIER SUBMITTAL	

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE		KENNEDY EXPRESSWAY F.A.L. ROUTE 90/94 RECONSTRUCTION PROJECT	
<b>REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM</b>			
<b>ONTARIO TO EDENS JUNCTION</b>			
<b>TYPICAL RESTRAINING BARRIER ASSEMBLY</b>			
SCALE: NONE		DATE: 03/29/91	
PROJECT NO. 4482		DRAWN BY: JPD/MS	

FOR INFORMATION ONLY

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**KNIGHT**  
Engineers & Architects

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		CHECKED - CS	REVISED -
		DATE - 1/27/2022	REVISED -

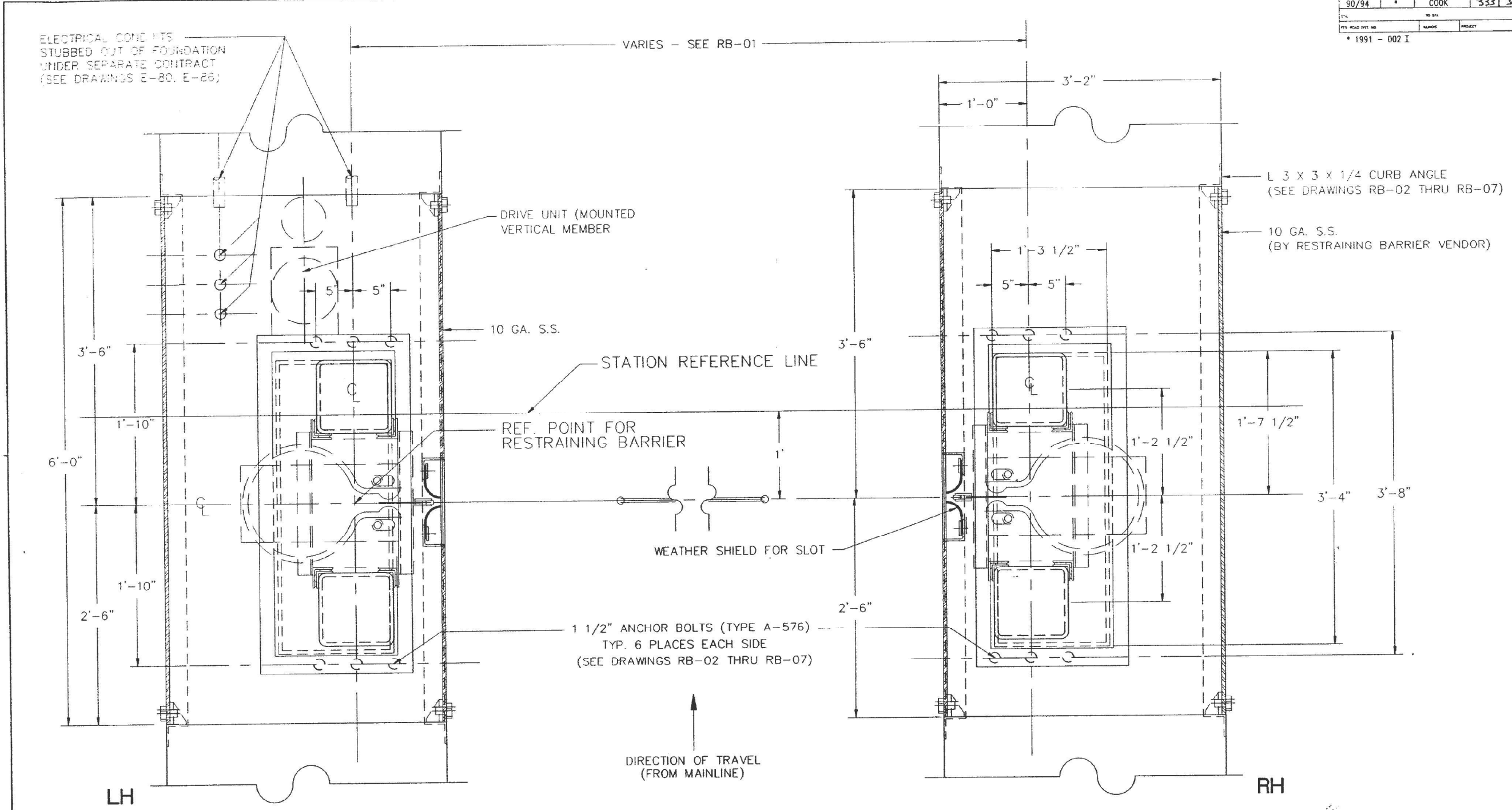
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

<b>TRAFFIC GATES AND BARRIERS</b>			
SCALE: NTS	SHEET 3	OF 25 SHEETS	STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	288	134
CONTRACT NO. 60746				ILLINOIS FED. AID PROJECT

TG-03

DATE	REVISION	COUNTY	SHEET	NO.
90/94	*	COOK	333	30
FED. ROAD DIST. NO.		ALIAS	PROJECT	
			* 1991 - 002 I	



**NOTE**

1. STEEL PLATE BEAM GUARDRAIL NOT SHOWN.
2. THE CONTRACTOR SHALL VERIFY ALL APPLICABLE FOUNDATION AND EQUIPMENT DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. REFER TO DRAWINGS RB-02 THROUGH RB-07 FOR FOUNDATIONS AND ANCHOR BOLTS PROVIDED UNDER SEPARATE CONTRACTS. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

NO.	DATE	REVISION	BY
02/19/93		ISSUED FOR REV. AC BID	
01/15/93		REV. AC PRELIM REVIEW	
11/13/92		NWB REVIEW	
10/09/92		REV. AC PRELIM	
09/28/92		RESTRAINING BARRIER BID	

<b>RB-01A</b>	
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.I. ROUTE 90/94 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
ONTARIO TO EDENS JUNCTION	
<b>RESTRAINING BARRIER - DETAILS</b>	
<b>FOUNDATION AND BASE</b>	
Scale: NONE	Scale: NONE
Project No. 4492	Sheet No. 02/13/92
Author: Knight & Associates, Inc. Architects - Engineers - Planners	Drawn: JKNIGHT

FOR INFORMATION ONLY

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**KNIGHT**  
Engineers & Architects

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	DATE - 1/27/2022	REVISED -

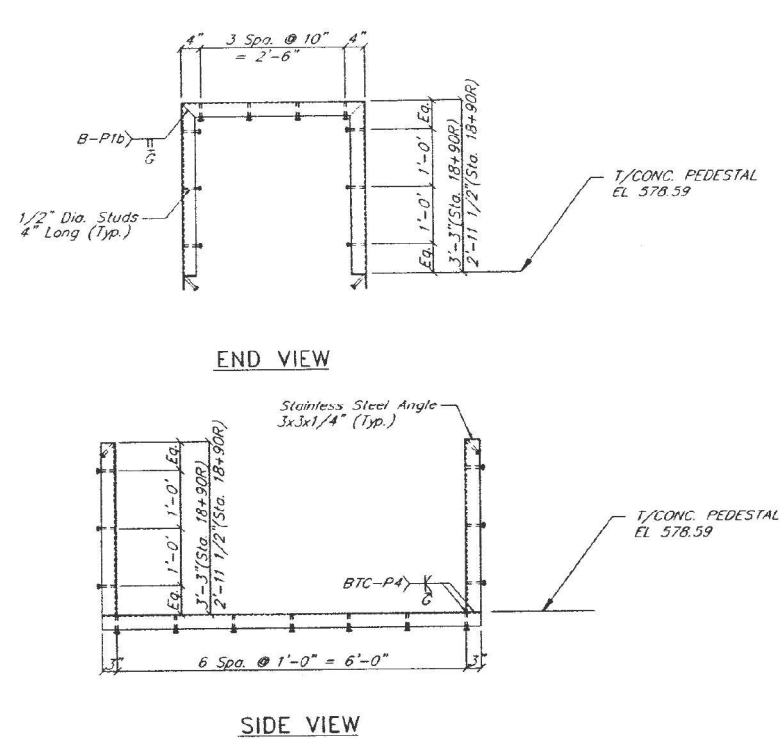
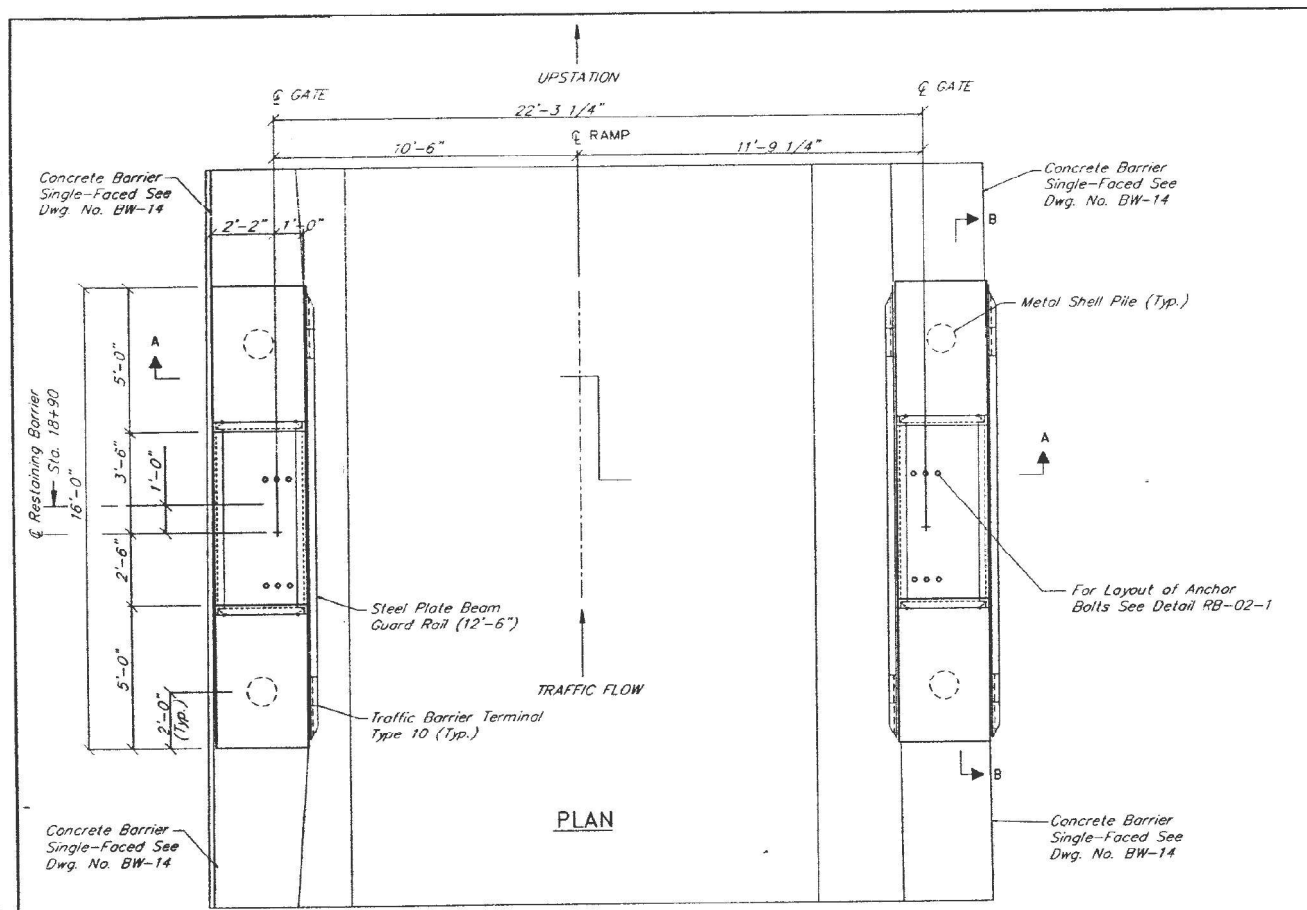
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC GATES AND BARRIERS</b>			
SCALE: NTS	SHEET 4 OF 25 SHEETS	STA. N/A	TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	288	135
CONTRACT NO. 60746			ILLINOIS FED. AID PROJECT	

TG-04

PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
90/94	3	COOK	333	(3)
DATE	BY	PROJECT		
1991-08-21				

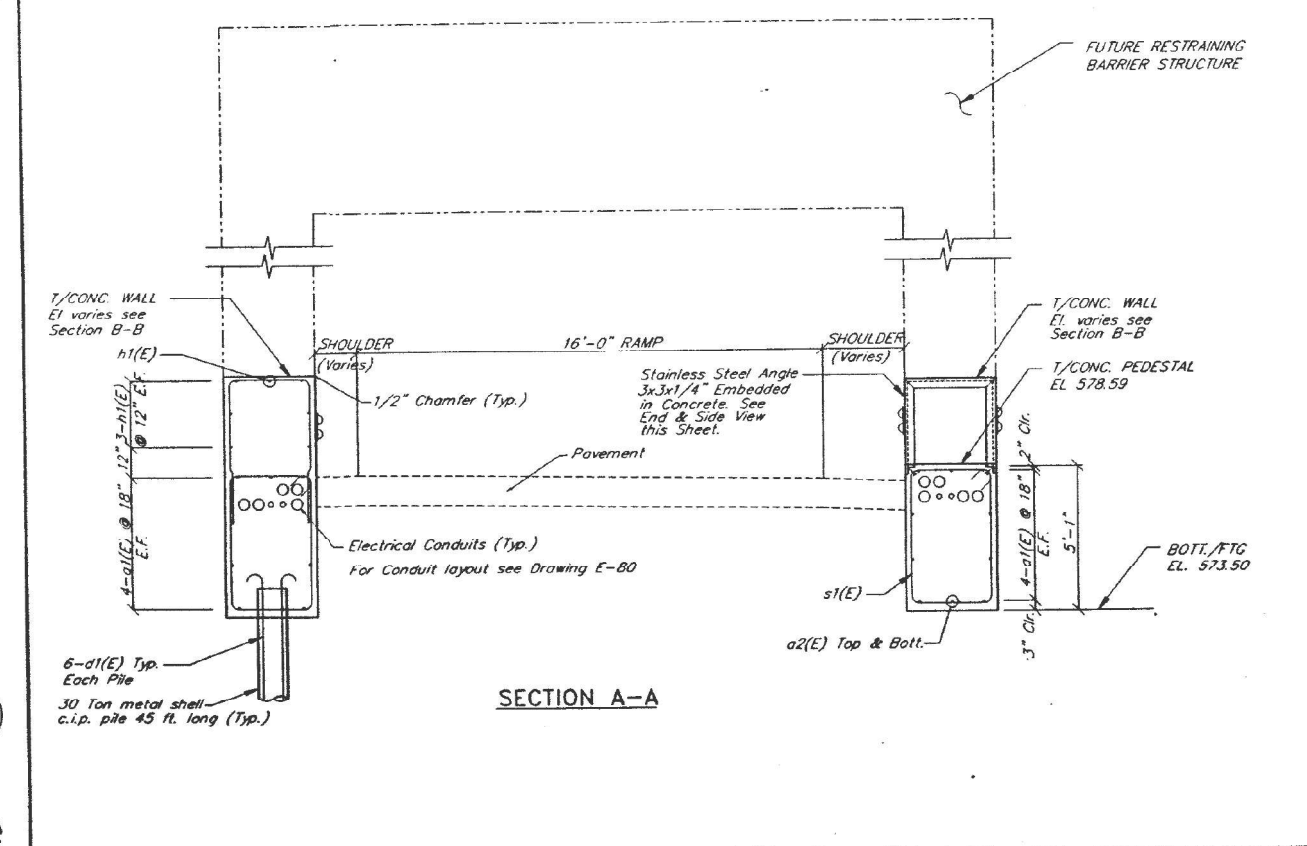


BILL OF MATERIAL				
BAR NO.	SIZE	LENGTH	SHAPE	
a1(e)	#6	19'-6"		
a2(e)	#6	10'-6"		
d1(e)	#4	45'-6"		
h1(e)	#6	8'-6"		
s1(e)	#5	12'-2"		
s2(e)	#5	12'-10"		

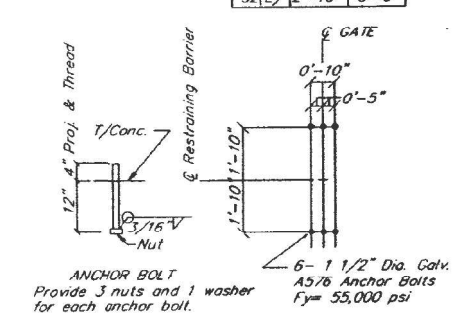
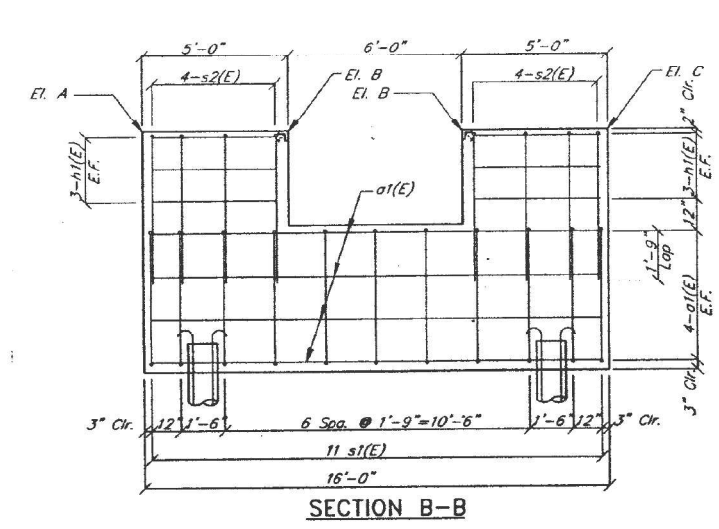
  

ITEM	UNIT	QUANTITY
Reinforcement Bars (Epoxy Coated)	LB.	2070
Class X Concrete	C.Y.	26.6
Furnishing Metal Pile Shells 12"	LF.	184
Driving & Filling Shells	LF.	184

Reinforcement bars designated (E) shall be epoxy coated.



GATE LOCATION (OMB)	STATION	EL. A	EL. B	EL. C
OUTBOUND MAINLINE	18+90 L	581.87	581.84	581.80
OUTBOUND MAINLINE	18+90 R	581.57	581.54	581.51



- NOTES:
- For General Notes See Dwg. No. G-9
  - For Location of Foundation See Dwg. No. B-04
  - Cost of Stainless Steel Angle, Studs and Anchor Bolts shall be incidental to the cost of Class X Concrete
  - Install Steel Plate Beam Guard Rail and Traffic Barrier Terminal Type 10 to protect Opening as directed by the Engineer.
  - For Geometrics See Proposed Alignment Drawings.

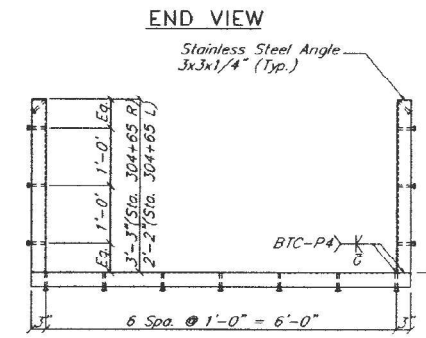
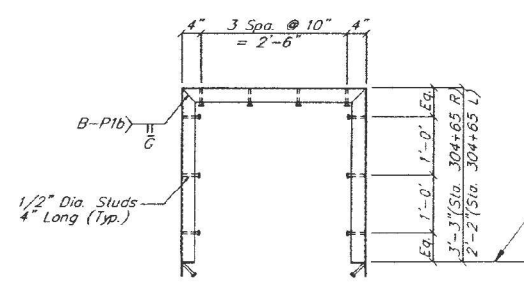
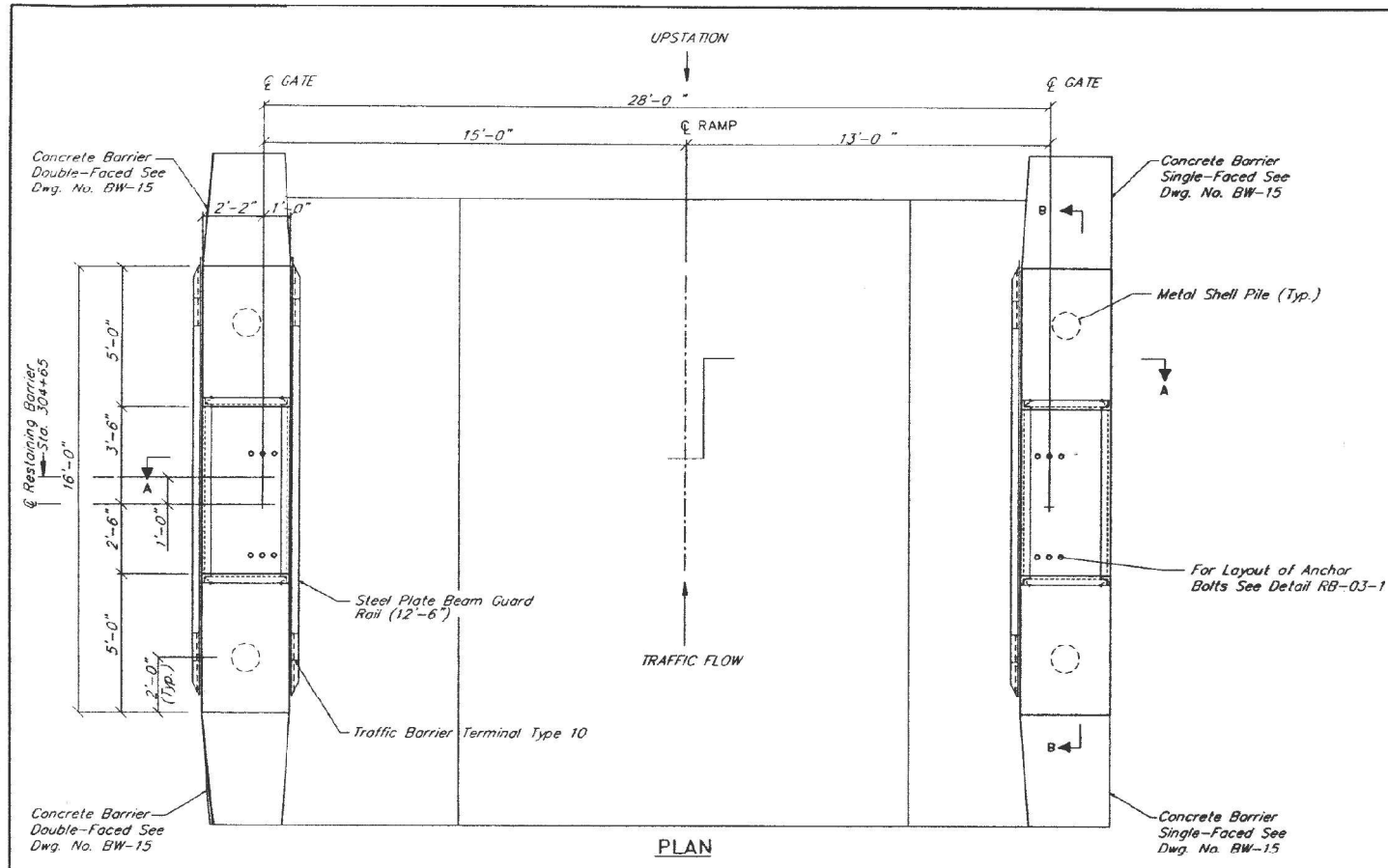
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ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.L. ROUTE 90/94 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
OUTBOUND MAINLINE	
RESTRAINING BARRIER FOUNDATION OUTBOUND MAINLINE (OMB)	
DATE: 07/15/91	BY: ARG

NO.	DATE	REVISION
1	07/15/91	Issued for Review
2	08/14/92	Anchor Bolt Revisions
3	02/24/92	Pre-Construction Revisions
4	09/09/91	RELEASED FOR REVISION

FOR INFORMATION ONLY

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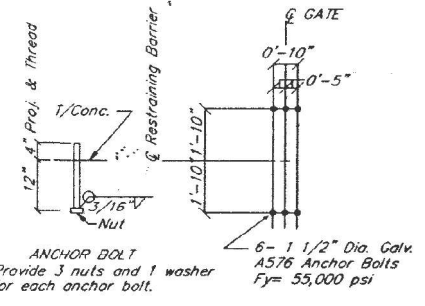
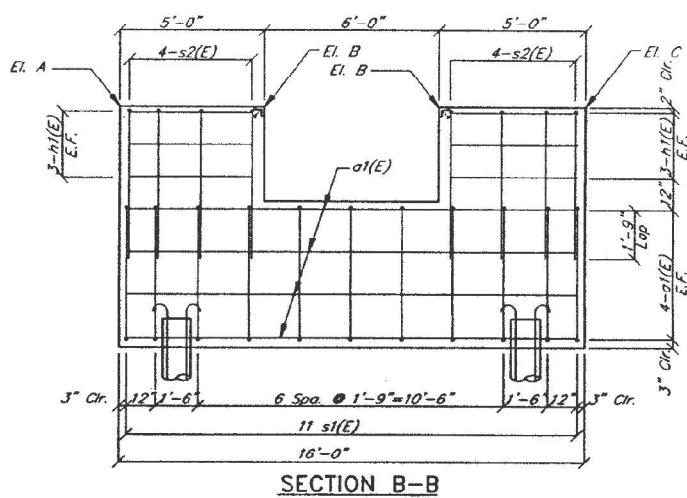
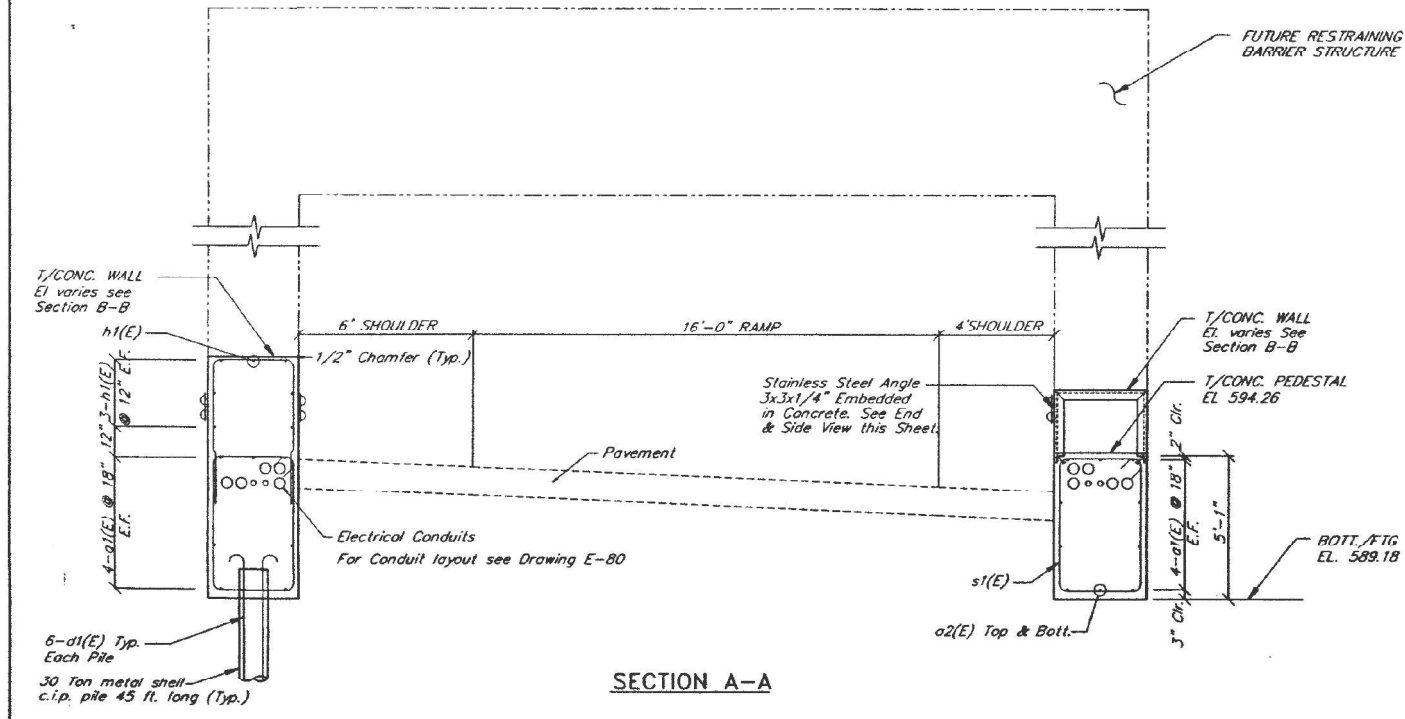
NO. 333	32
NO. 333	32
NO. 333	32



BAR NO.	SIZE	LENGTH	SHAPE
a1(e)	#6	19'-6"	U
a2(e)	#6	10'-6"	U
d1(e)	#4	45'-6"	U
h1(e)	#6	8'-6"	U
s1(e)	#5	12'-2"	U
s2(e)	#5	12'-10"	U

ITEM	UNIT	QUANTITY
Reinforcement Bars (Epoxy Coated)	LB.	2070
Class X Concrete	C.Y.	26.2
Furnishing Metal Pile Shells 12"	LF.	184
Driving & Filling Shells	LF.	184

GATE LOCATION (OOB)	STATION	EL. A	EL. B	EL. C
OUTBOUND ONTARIO	304+65L	596.18	596.41	596.63
OUTBOUND ONTARIO	304+65R	597.35	597.51	597.67



- NOTES:
- For General Notes See Dwg. No. G-9
  - For Location of Foundation See Dwg. No. B-02
  - Cost of Stainless Steel Angle, Studs and Anchor Bolts shall be incidental to the cost of Class X Concrete
  - Install Steel Plate Beam Guard Rail and Traffic Barrier Terminal Type 10 to protect Opening as directed by the Engineer.
  - For Geometrics See Proposed Alignment Drawings.

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.I. ROUTE 90/94 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
OUTBOUND ONTARIO ST.	
RESTRAINING BARRIER FOUNDATION OUTBOUND ONTARIO (OOB)	

NO.	DATE	REVISION	BY
1	01/15/93	Issued for Review	MB
2	08/14/92	Anchor Bolt Revision	MB
1	08/14/92	Pre-Construction Revisions	MB
1	08/01/91	RELEASED FOR REVIEW	MB

FOR INFORMATION ONLY

P:\US\AS\A\Projects\606\Documents\CSX\2901\Contract\07260730\CADD\Sheet\DR\TSS-sh-TG-06.dgn

**KNIGHT**  
Engineers & Architects

FILE NAME = D180748-sh-TG-06.dgn	USER NAME = korabmp	DESIGNED - MB	REVISED -
PLOT SCALE = 2.00 / in.	CHECKED - CS	DRAWN - MB	REVISED -
PLOT DATE = 3/22/2022	DATE - 1/27/2022	CHECKED - CS	REVISED -

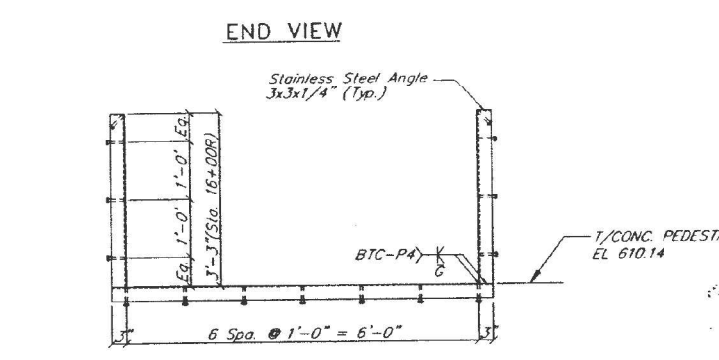
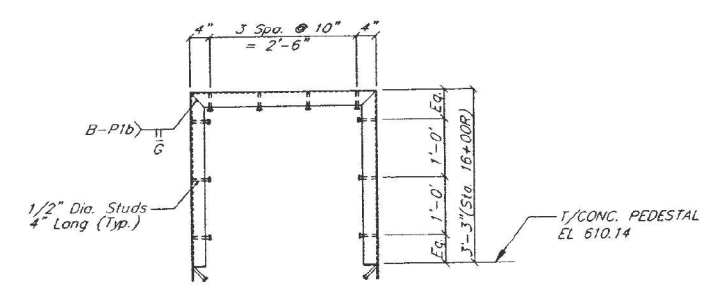
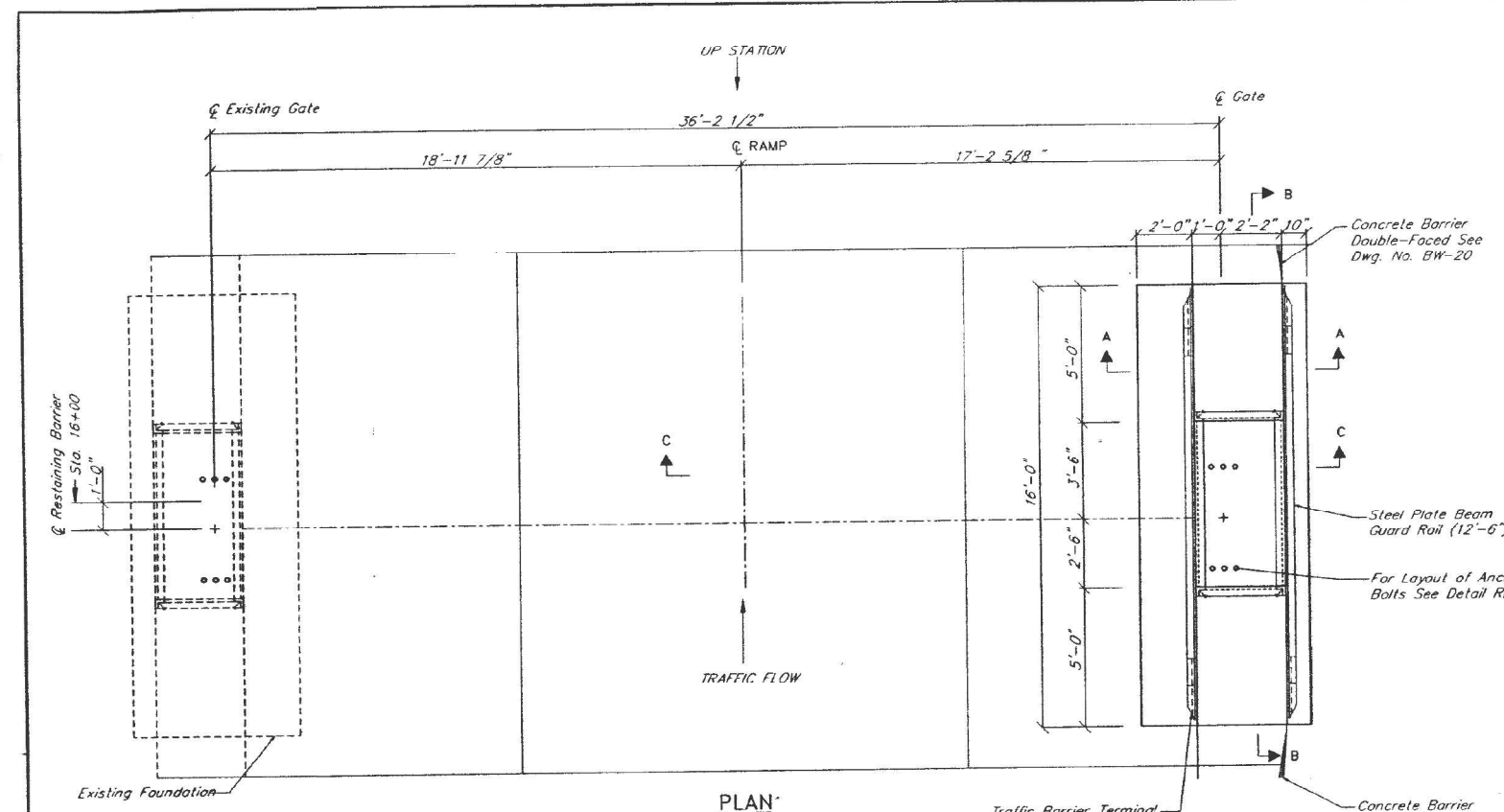
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: NTS	SHEET 6	OF 25 SHEETS	STA. N/A	TO STA. N/A
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	137
CONTRACT NO. 60746			ILLINOIS FED. AID PROJECT	

TG-06

DATE	REVISED	BY	NO.
9/0/94		COOK	333
NO.	NO.	NO.	NO.
1991-0021			

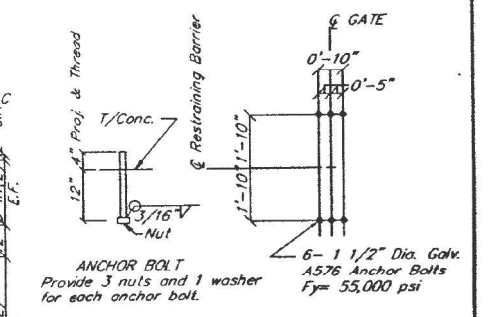
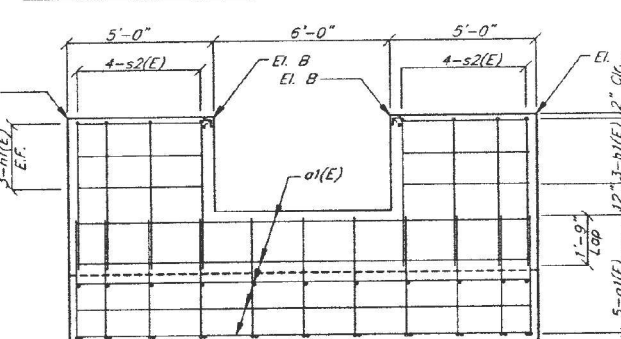


BILL OF MATERIAL				
BAR NO.	SIZE	LENGTH	SHAPE	
a1(e)	#5	19'-6"		
a2(e)	#5	9'-6"		
a3(e)	#5	5'-6"		
h1(e)	#5	10'-6"		
s1(e)	#5	9'-11"		
s2(e)	#5	9'-8"		
ITEM				UNIT QUANTITY
Reinforcement Bars (Epoxy Coated)				LB. 830
Class X Concrete				C.Y. 16.6

Reinforcement bars designated (E) shall be epoxy coated.

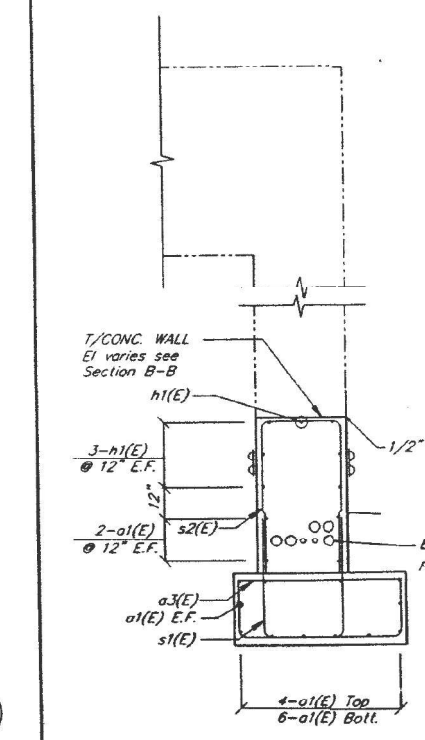
BAR	A	B
a1(E)	15'-6"	2'-0"
a2(E)	5'-6"	2'-0"
h1(E)	4'-6"	2'-0"
s1(E)	2'-10"	4'-3"
s2(E)	2'-10"	4'-0"

GATE LOCATION (ISB)	STATION	EL. A	EL. B	EL. C
INBOUND SLIP RAMP	16+00 L	613.46	613.39	613.32

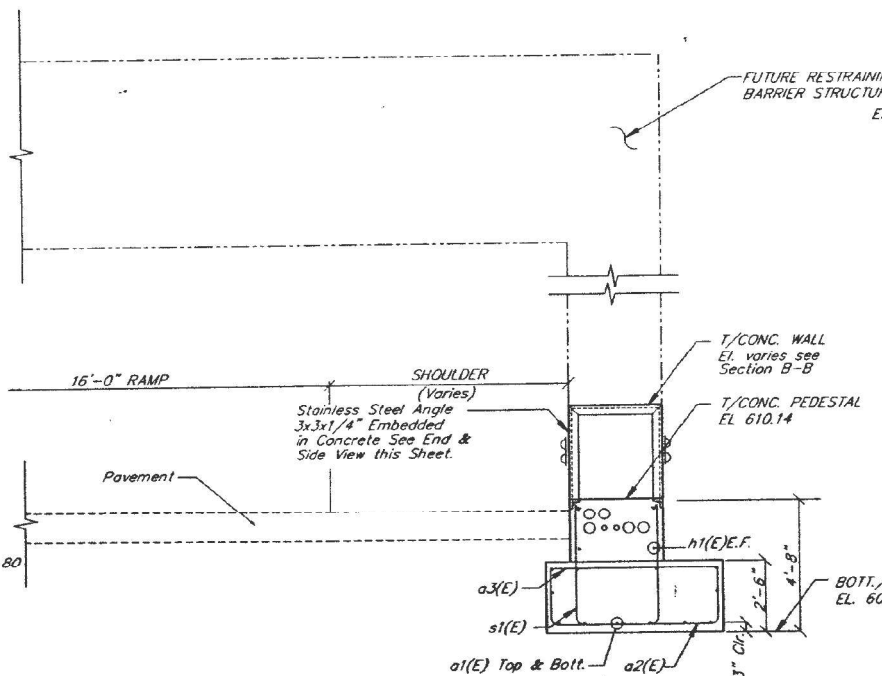


**DETAIL RB-04-1**  
Anchor Bolts to be tied to reinforcement and grounding rod. See Electrical.

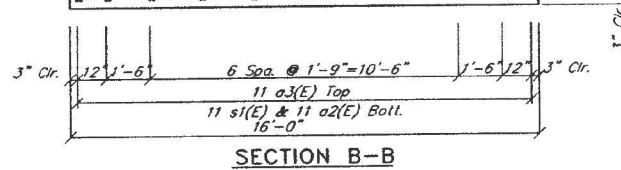
**NOTES:**  
1 For General Notes See Dwg. No. G-9  
2 For Location of Foundation See Dwg. No. B-10  
3 Cost of Stainless Steel Angle, Studs and Anchor Bolts shall be incidental to the cost of Class X Concrete  
4 Install Steel Plate Beam Guard Rail and Traffic Barrier Terminal, Type 10 to protect Opening as directed by the Engineer.  
5 For Geometrics See Proposed Alignment Drawings.



SECTION A-A



SECTION C-C



SECTION B-B

DATE	REVISION	BY	REVISION
01/19/85	Issued for Review		
08/24/85	Anchor Bolt Revisions for SEB Contract		
07/17/92	RELEASE FOR SEB CONTRACT		
05/02/92	PVE-FINAL REVIEW SEB CONTRACT		

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
KENNEDY EXPRESSWAY  
F.A.I. ROUTE 90/94  
RECONSTRUCTION PROJECT

**REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM**  
**INBOUND SLIP RAMP**  
**RESTRAINING BARRIER FOUNDATION INBOUND SLIP RAMP (ISB)**

SCALE: 3/8" = 1'-0"  
PROJECT NO. 4482  
DATE: 07/15/92

FOR INFORMATION ONLY

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1/10  
Drawing File RE  
Plot Data B-2  
Plot Scale 1=2.0  
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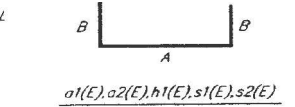
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NO. STA.		PROJECT					
1991-0021							

**BILL OF MATERIAL**

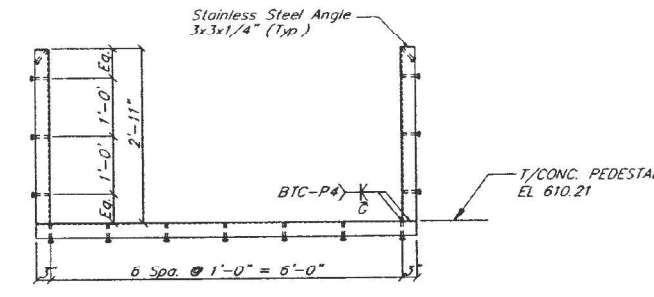
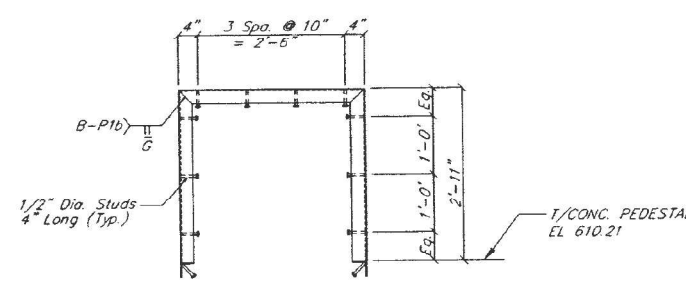
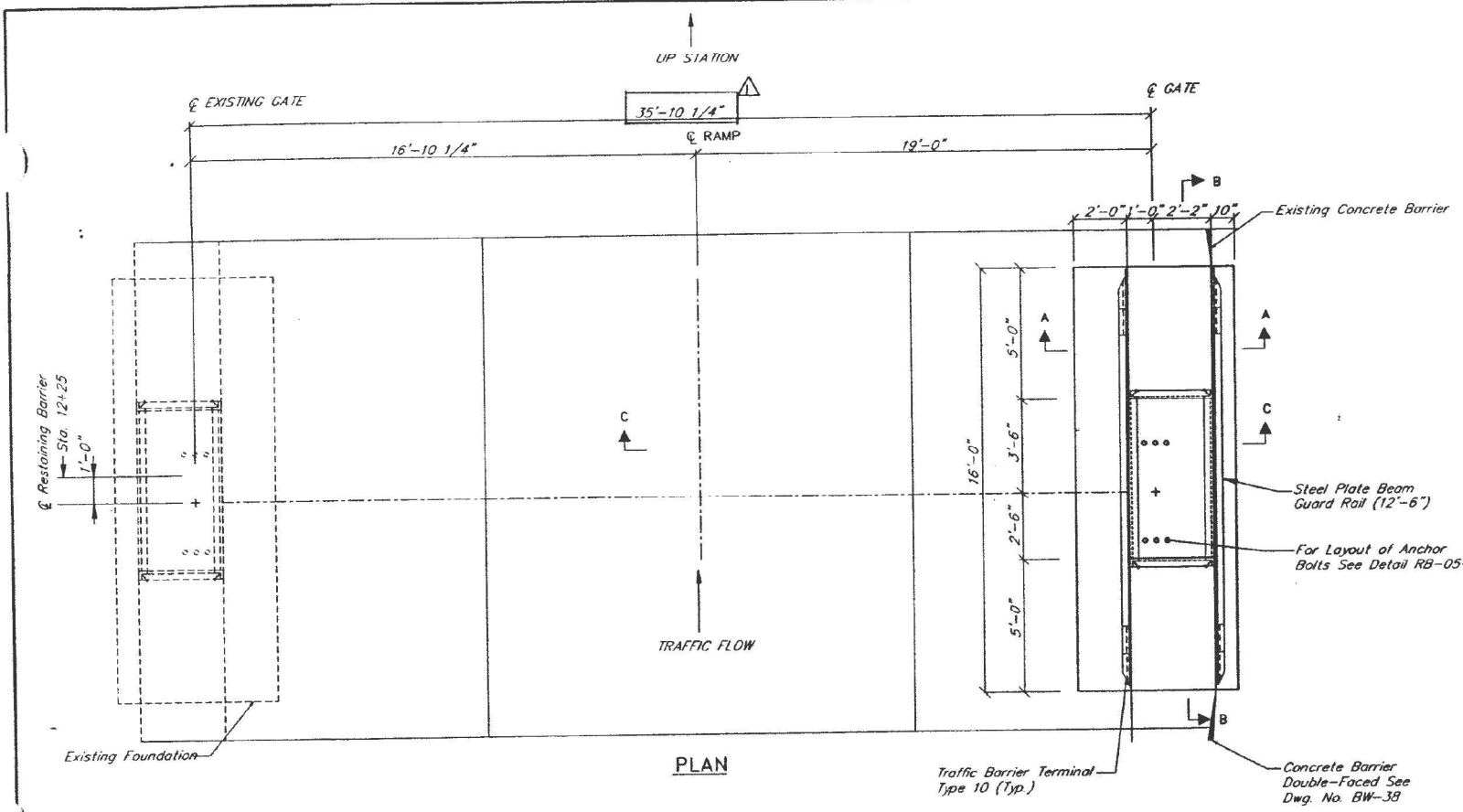
BAR NO.	SIZE	LENGTH	SHAPE
a1(e)	#5	19'-6"	
a2(e)	#5	9'-6"	
a3(e)	#5	5'-6"	
h1(e)	#5	8'-6"	
s1(e)	#5	11'-4"	
s2(e)	#5	12'-6"	

ITEM	UNIT	QUANTITY
Reinforcement Bars LB (Epoxy Coated)	LB	860
Class X Concrete	C.Y.	16.6

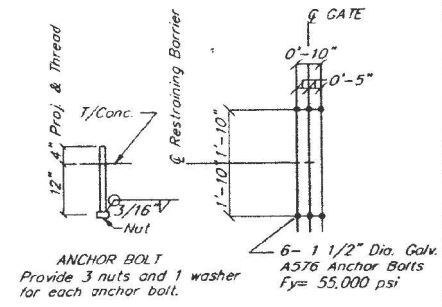
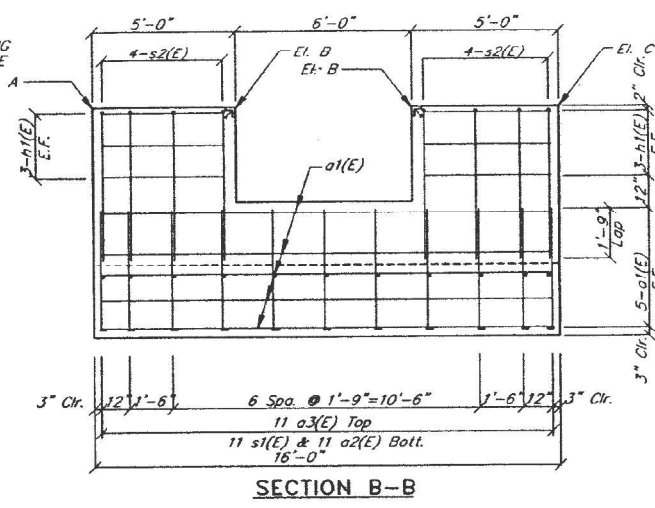
Reinforcement bars designated (E) shall be epoxy coated



BAR	A	B
a1(E)	15'-6"	2'-0"
a2(E)	5'-6"	2'-0"
h1(E)	4'-6"	2'-0"
s1(E)	2'-10"	4'-3"
s2(E)	2'-10"	4'-10"

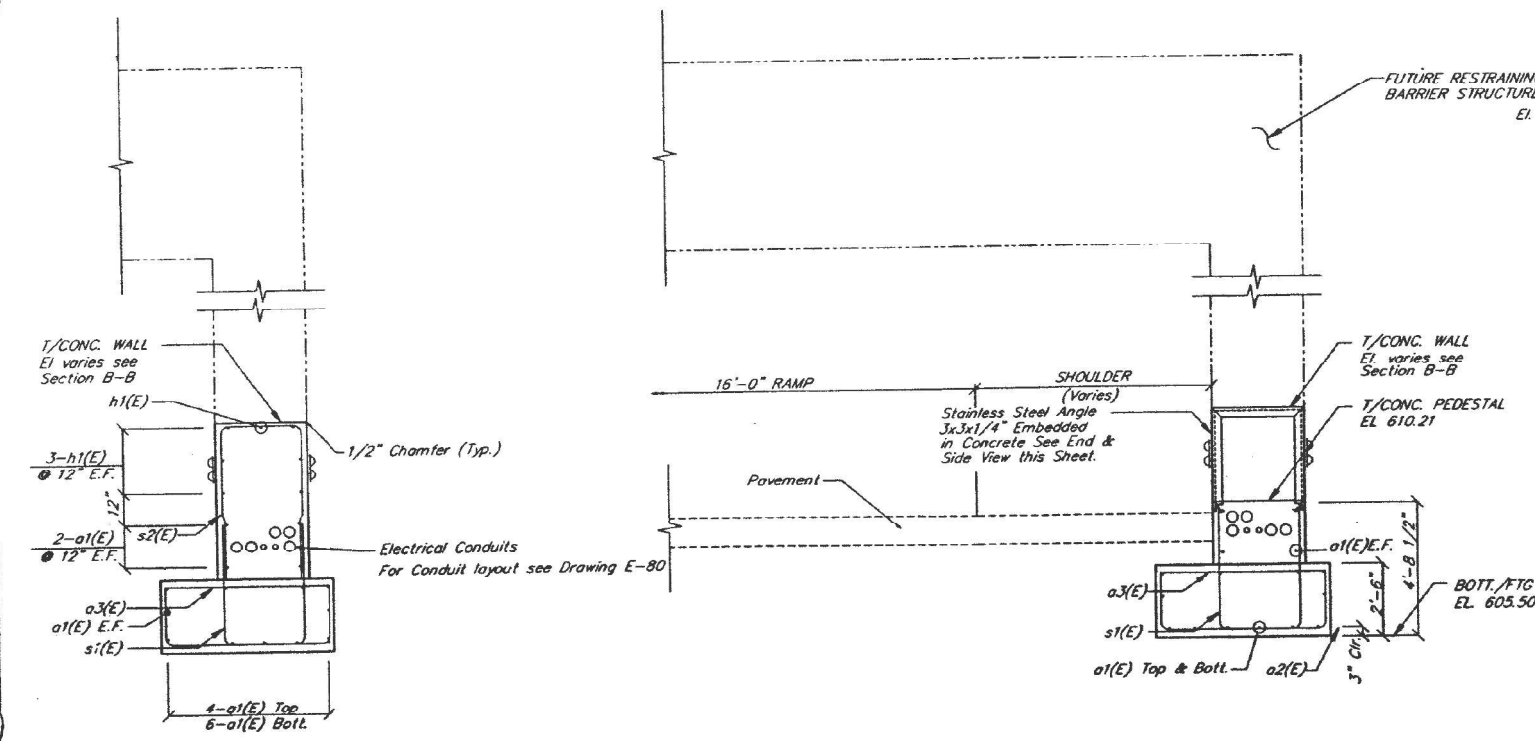


GATE LOCATION (OSB)	STATION	EL. A	EL. B	EL. C
OUTBOUND SLIP RAMP	12+25 R	613.14	613.12	613.10



**DETAIL RB-05-1**  
Anchor Bolts to be tied to reinforcement and grounding rod. See Electrical

**NOTES:**  
1 For General Notes See Dwg. No. G-9  
2 For Location of Foundation See Dwg. No. B-05  
3 Cost of Stainless Steel Angle, Studs and Anchor Bolts shall be incidental to the cost of Class X Concrete  
4 Install Steel Plate Beam Guard Rail and Traffic Barrier Terminal, Type 10 to protect Opening as directed by the Engineer.  
5 For Geometrics See Proposed Alignment Drawings.



**NOTES:**  
1. THIS DRAWING DIFFERS FROM BID SET DRAWING RB-05. CHANGE IS BLOCKED AND MARKED, "A".  
2. RESTRAINING BARRIER SPAN REVISED.

AREA B	RB-05
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.L. ROUTE 90/94 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
OUTBOUND SLIP RAMP	
RESTRAINING BARRIER FOUNDATION OUTBOUND SLIP RAMP (OSB)	
SCALE	3/8" = 1'-0" CADD
PROJECT NO.	4482
DATE	04/15/92

NO.	DATE	REVISION	BY
01/09/93		Revised Span Length	
02/10/93		Issued for Bidding Bid	
01/15/93		PRE-FINAL REVIEW INSD CONTRACT	
04/15/92		PRE-FINAL REVIEW INSD CONTRACT	

FOR INFORMATION ONLY

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**KNIGHT**  
Engineers & Architects

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USER NAME	korabmp	DRAWN	MB	REVISED	-
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PLOT DATE	= 3/27/2022	DATE	1/27/2022	REVISED	-

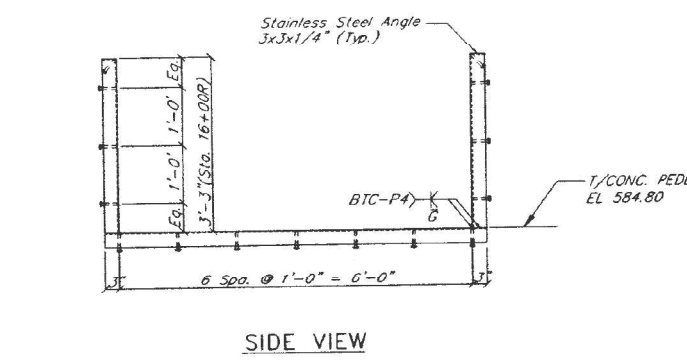
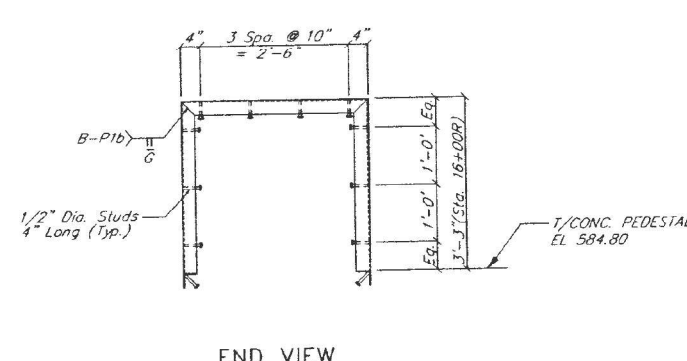
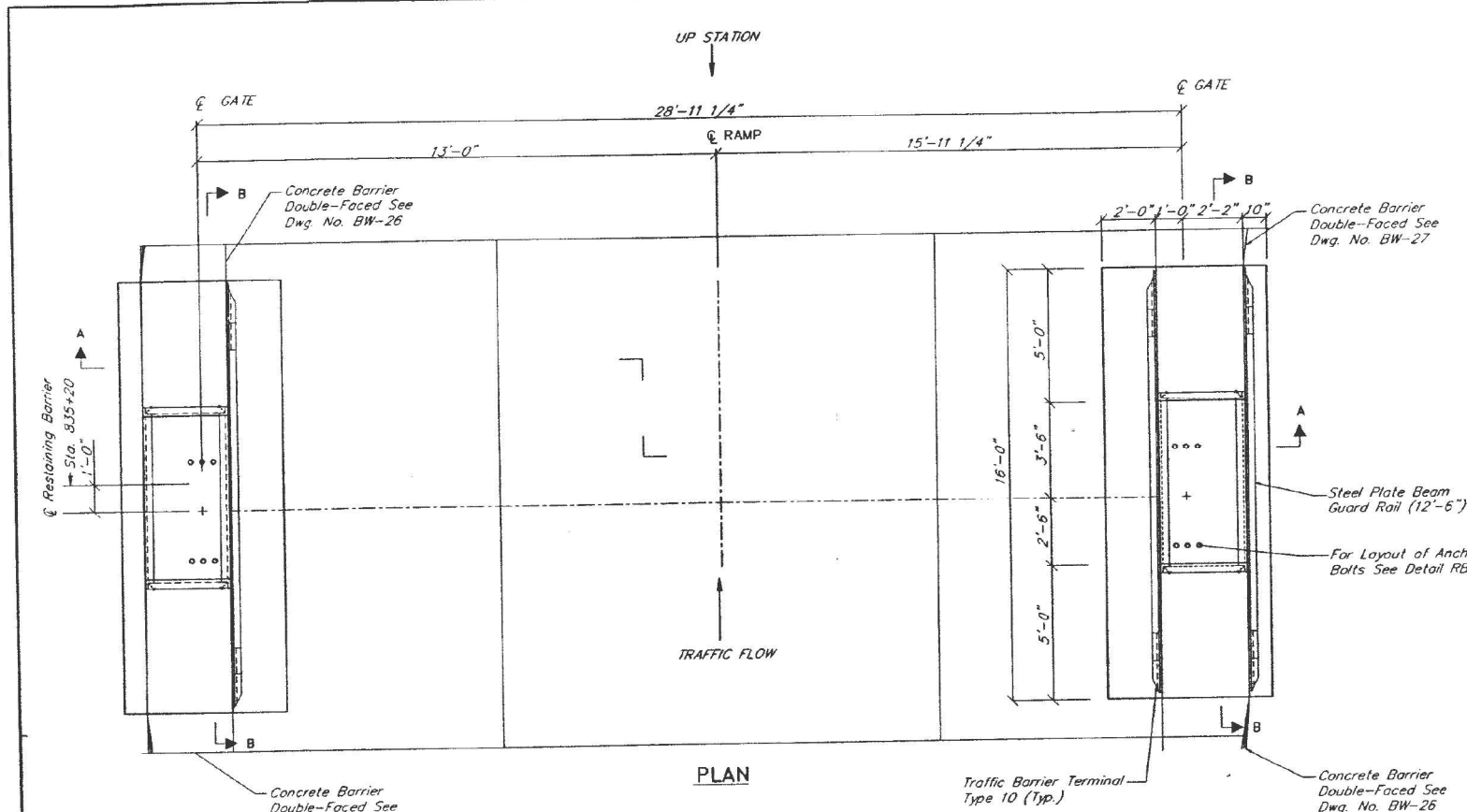
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATES AND BARRIERS			
SCALE: NTS	SHEET 8	OF 25 SHEETS	STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
90/94	2012-0081	COOK	268
CONTRACT NO.			60746
ILLINOIS FED. AID PROJECT			

TG-08

DATE	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
9/9/94		COOK	333	35

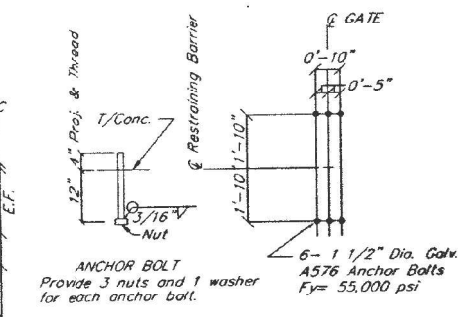
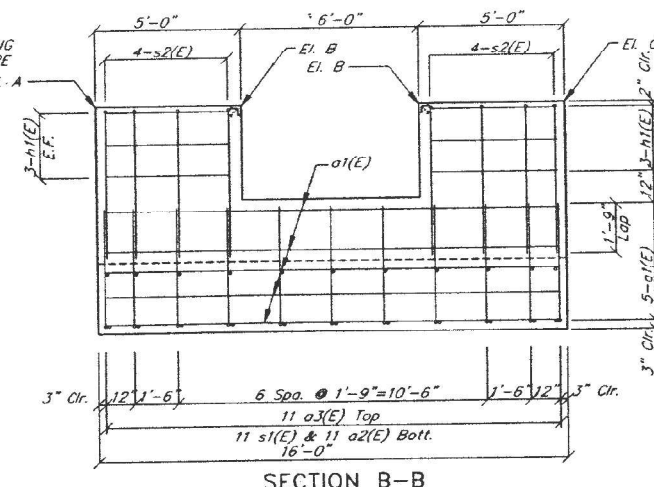
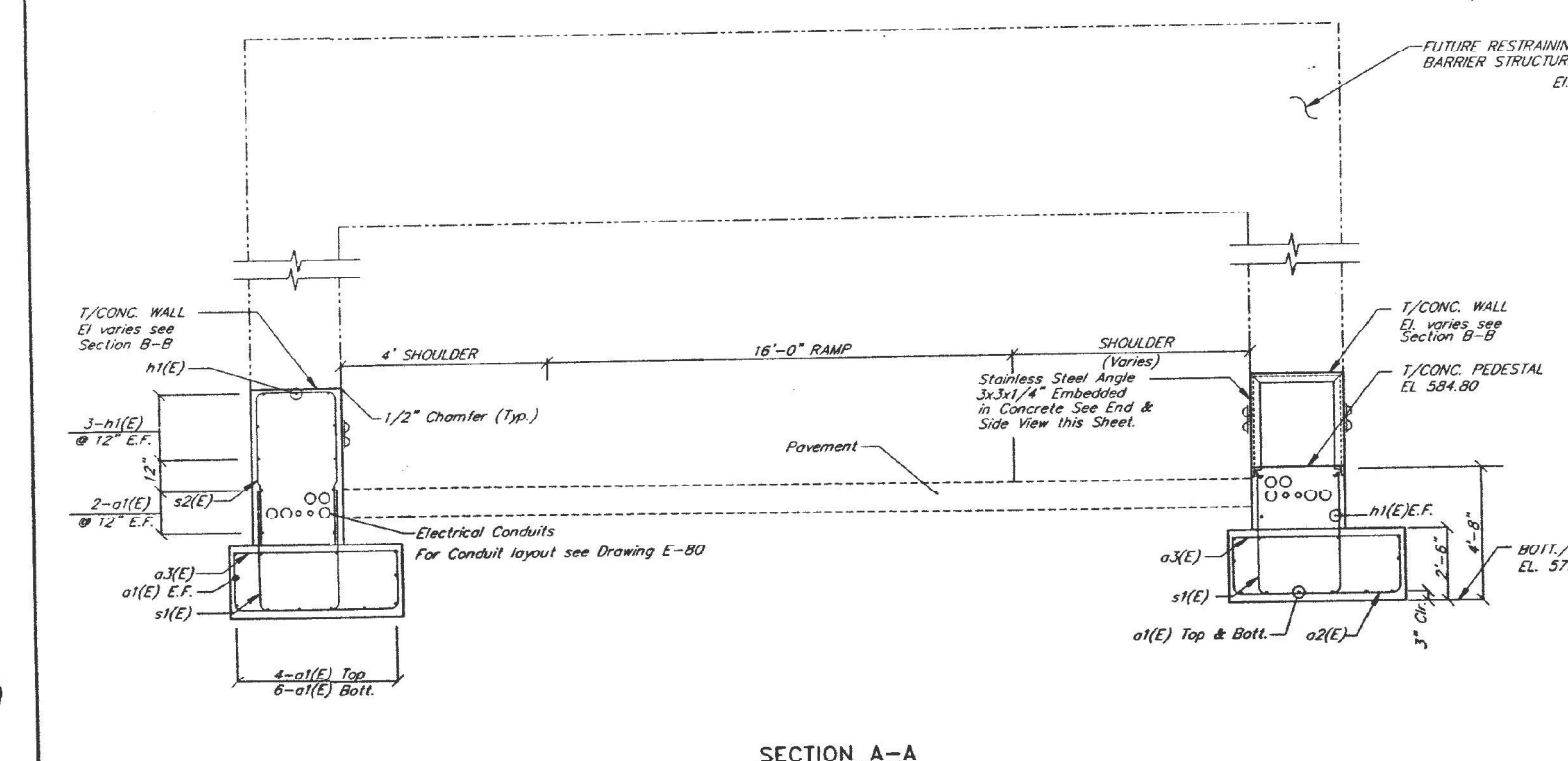


BAR NO.	SIZE	LENGTH	SHAPE
a1(e)	#3	19'-6"	
a2(e)	#5	9'-6"	
a3(e)	#5	5'-6"	
h1(e)	#5	10'-6"	
s1(e)	#5	9'-11"	
s2(e)	#5	9'-8"	

Reinforcement bars designated (E) shall be epoxy coated.

BAR	A	B
a1(E)	15'-6"	2'-0"
a2(E)	5'-6"	2'-0"
h1(E)	4'-6"	2'-0"
s1(E)	2'-10"	4'-3"
s2(E)	2'-10"	4'-0"

GATE LOCATION (IWB)	STATION	EL. A	EL. B	EL. C
INBOUND KENNEDY WEST LEG	835+20R	587.95	588.05	587.85
INBOUND KENNEDY WEST LEG	835+20L	588.12	588.05	587.98



ANCHOR BOLT Provide 3 nuts and 1 washer for each anchor bolt.

- NOTES:
- 1 For General Notes See Dwg. No. G-9
  - 2 For Location of Foundation See Dwg. No. B-13
  - 3 Cost of Stainless Steel Angle, Studs and Anchor Bolts shall be incidental to the cost of Class X Concrete
  - 4 Install Steel Plate Beam Guard Rail and Traffic Barrier Terminal, Type 10 to protect Opening as directed by the Engineer.
  - 5 For Geometrics See Proposed Alignment Drawings.

ISSUE NO.	RB-06
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.L. ROUTE 90/94 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
INBOUND KENNEDY WEST LEG	
RESTRAINING BARRIER FOUNDATION INBOUND KENNEDY WEST LEG (IWB)	
SCALE	3/8" = 1'-0"
DATE	07/15/91

NO.	DATE	REVISION	BY
01/15/93		Issued for Review	BM
06/24/92		Anchor Bolt Revisions	SB
07/17/92		RELEASE FOR SEB CONTRACT	
05/02/92		PRE-FINAL REVIEW SEB CONTRACT	

FOR INFORMATION ONLY

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Plot File RB-06  
Plot Date 8-24  
Plot Scale 1=2.5x

**KNIGHT**  
Engineers & Architects

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PLOT SCALE = 2.00 / in.	CHECKED - CS	DRAWN - MB	REVISED -
PLOT DATE = 3/27/2022	DATE - 1/27/2022	CHECKED - CS	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATES AND BARRIERS  
SCALE: NTS SHEET 9 OF 25 SHEETS STA. N/A TO STA. N/A

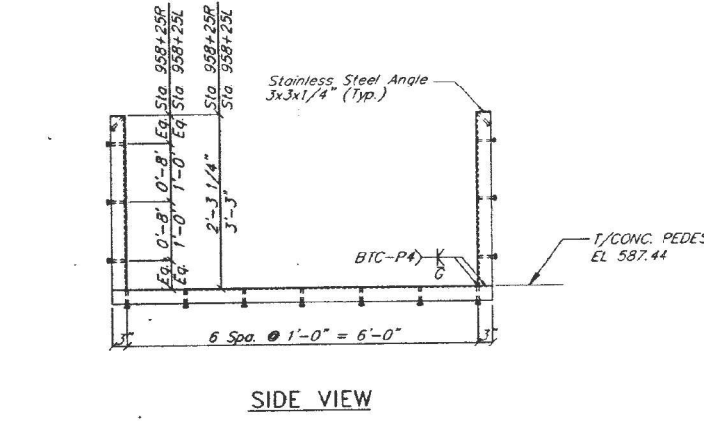
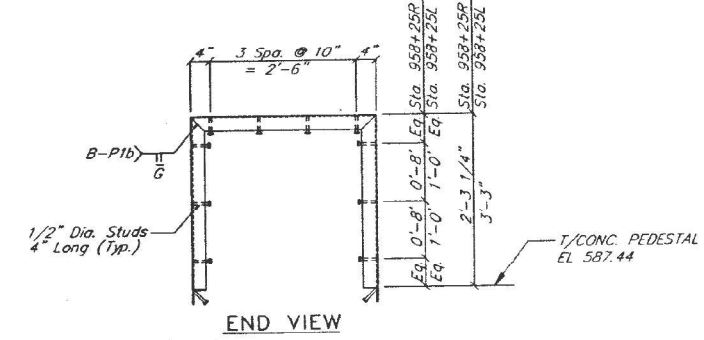
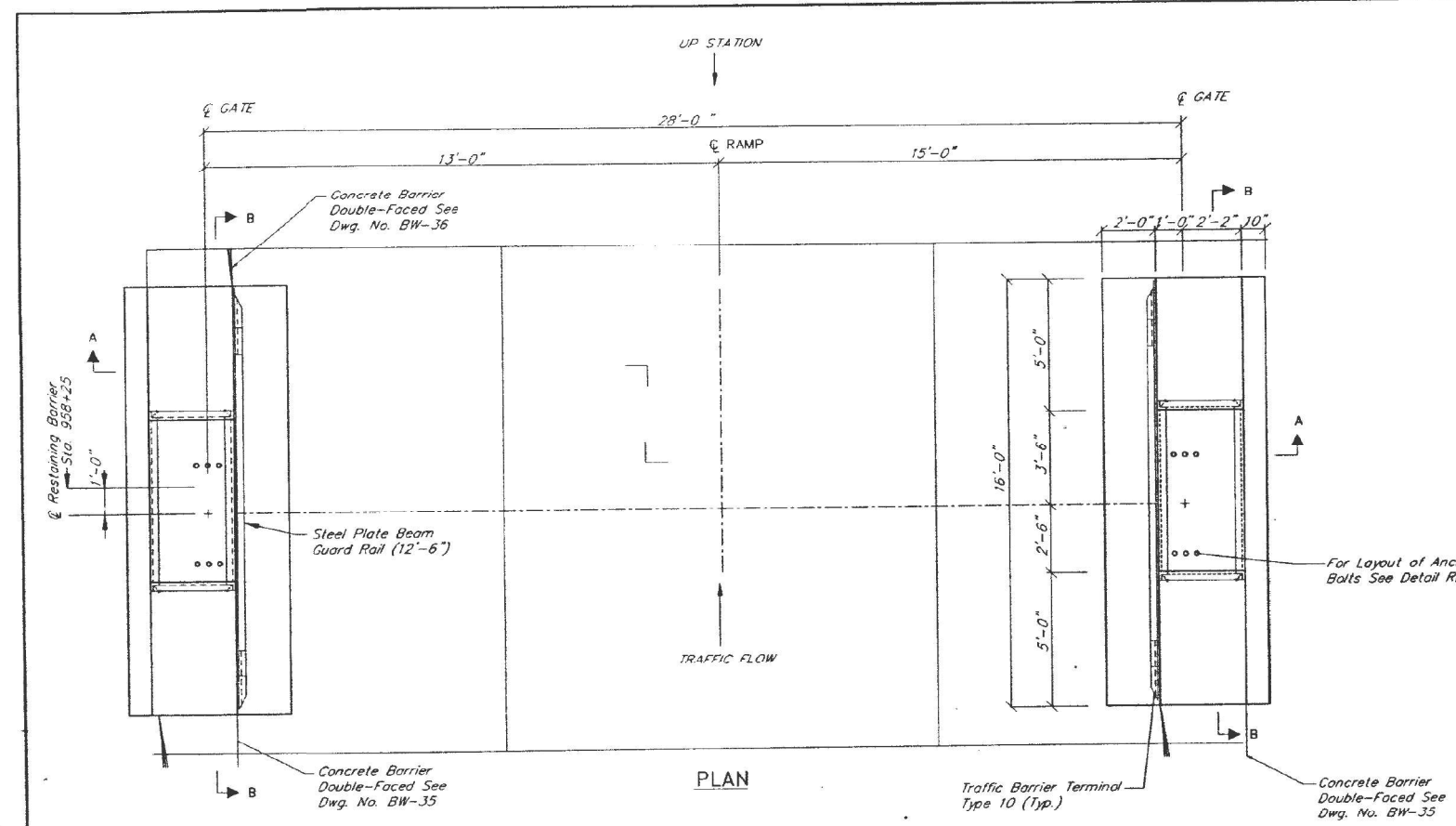
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90/94	2012-0081	COOK	288
CONTRACT NO. 60T46			SHEET NO. 140

TG-09

ILLINOIS FED. AID PROJECT

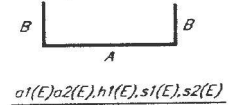


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PROJECT	1991-0021						



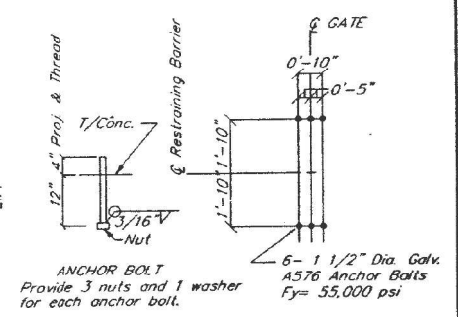
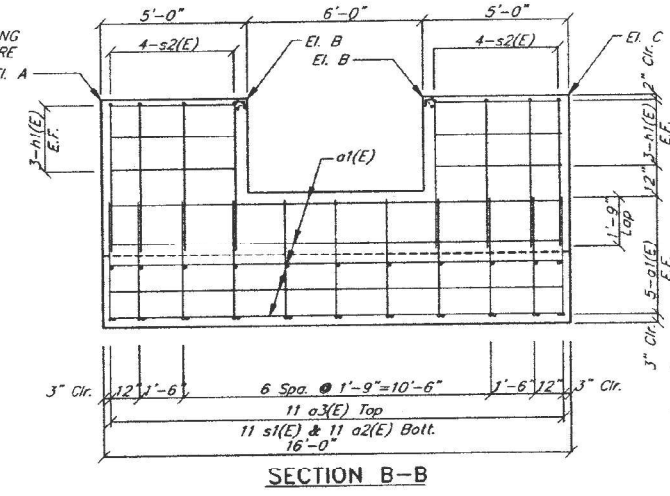
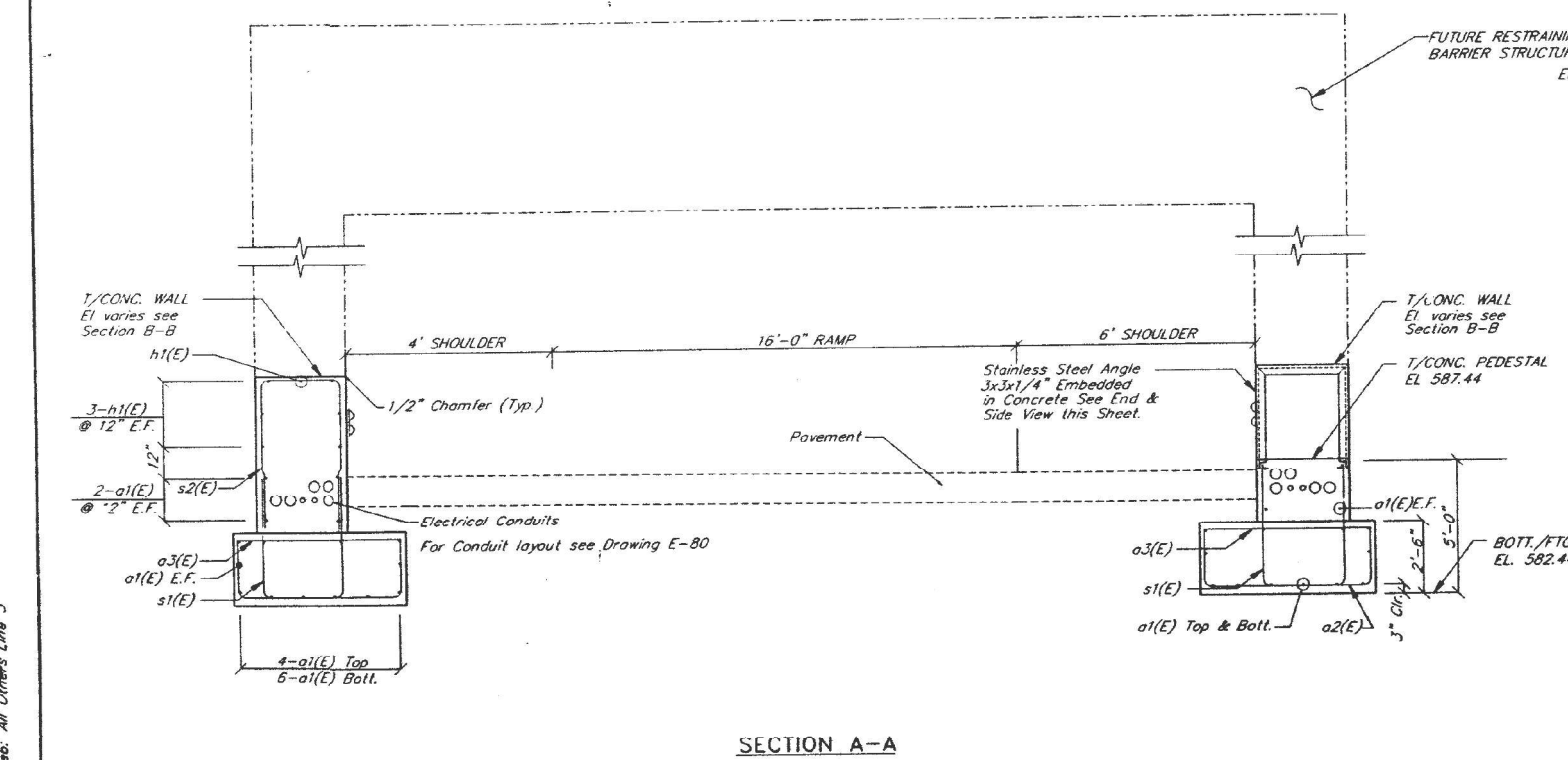
BILL OF MATERIAL			
BAR NO.	SIZE	LENGTH	SHAPE
a1(e)	#3	19'-6"	
a2(e)	#5	9'-6"	
a3(e)	#5	5'-6"	
h1(e)	#5	8'-6"	
s1(e)	#5	11'-4"	
s2(e)	#5	13'-10"	
ITEM	UNIT	QUANTITY	
Reinforcement Bars (Epoxy Coated)	LB.	1740	
Class X Concrete	C.Y.	34.3	

Reinforcement bars designated (E) shall be epoxy coated.



BAR	A	B
a1(E)	15'-6"	2'-0"
a2(E)	5'-6"	2'-0"
h1(E)	4'-6"	2'-0"
s1(E)	2'-10"	4'-3"
s2(E)	2'-10"	5'-6"

GATE LOCATION (IEB)	STATION	EL. A	EL. B	EL. C
INBOUND KENNEDY WEST LEG	958+25R	589.83	589.71	589.57
INBOUND KENNEDY WEST LEG	958+25L	590.81	590.69	590.55



- NOTES:
- 1 For General Notes See Dwg. No. G-9
  - 2 For Location of Foundation See Dwg. No. B-14
  - 3 Cost of Stainless Steel Angle, Studs and Anchor Bolts shall be incidental to the cost of Class X Concrete
  - 4 Install Steel Plate Beam Guard Rail and Traffic Barrier Terminal, Type 10 to protect Opening as directed by the Engineer.
  - 5 For Geometrics See Proposed Alignment Drawings.

AREA A	RB-07		
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.I. ROUTE 90/94 RECONSTRUCTION PROJECT		
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM			
INBOUND EDENS			
RESTRAINING BARRIER FOUNDATION INBOUND EDENS (IEB)			
DATE: 02/19/93	DESIGNED FOR: B&B		
DATE: 01/13/93	PRE-FINAL REVIEW: B&B CONTRACT		
DATE: 04/15/92	PRE-FINAL REVIEW: B&B CONTRACT		
NO.	DATE	REVISION	BY
			KENICHTY
Lester B. Knight & Associates, Inc. Architects - Engineers - Planners 500 West Township Blvd., Elmhurst, Ill. 60120 708-200-2000		SCALE: 3/8" = 1'-0"	DATE: 04/15/92
PROJECT NO. 4492		DATE: 04/15/92	APPROVED

FOR INFORMATION ONLY

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 User Name: korabmp  
 Designed: MB  
 Drawn: MB  
 Checked: CS  
 Date: 1/27/2022  
 Plot Scale: 2.000 / in.  
 Plot Date: 3/22/2022

**KNIGHT**  
Engineers & Architects

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATES AND BARRIERS

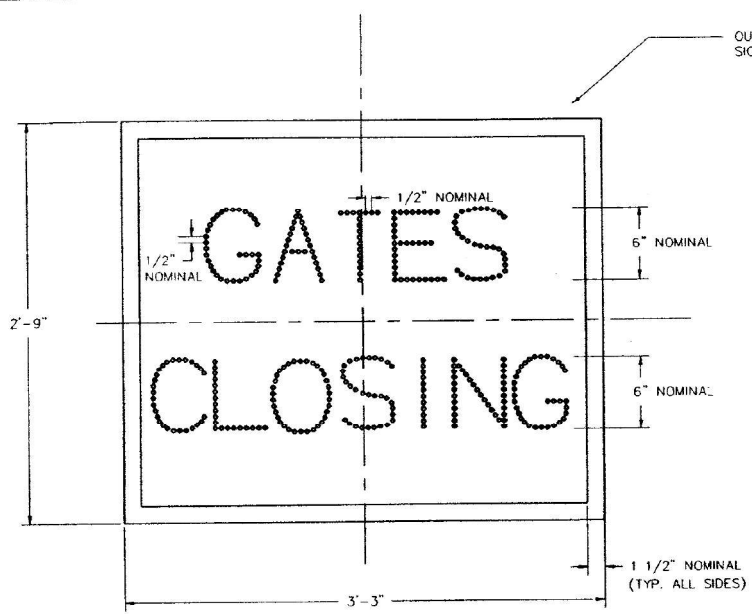
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F.A.I. RTE. 90/94 SECTION 2012-0081 COUNTY COOK TOTAL SHEETS 288 SHEET NO. 141 CONTRACT NO. 60T46 ILLINOIS FED. AID PROJECT

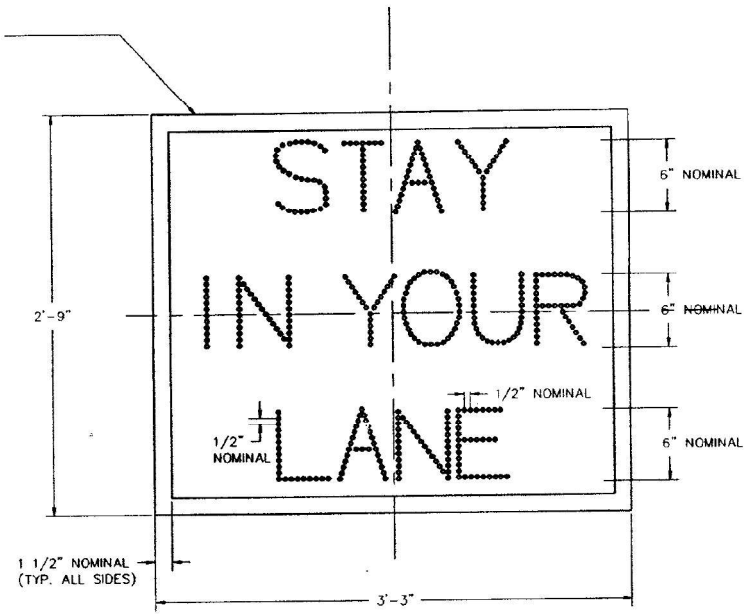
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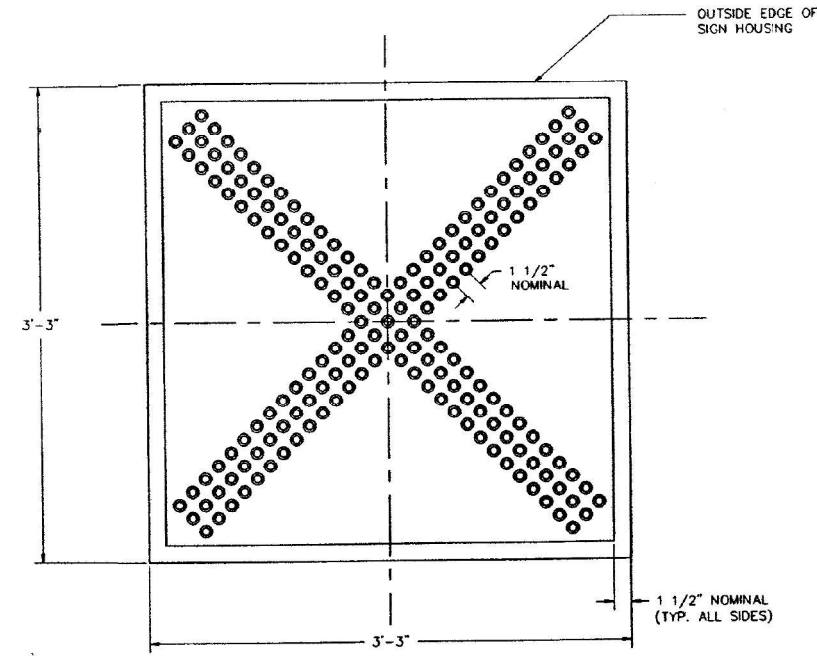
1991 - 002 I



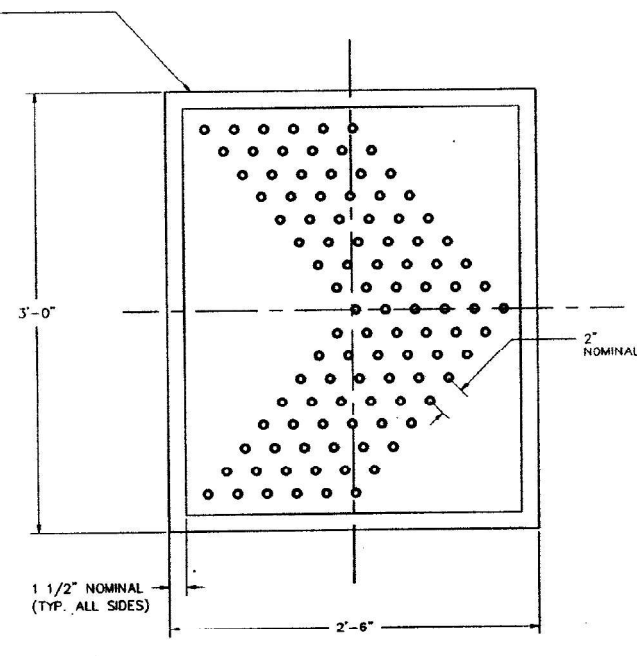
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QTY. 6 REQUIRED



**OPERATIONAL WARNING SIGN**  
QTY. 6 REQUIRED



**LANE USE CONTROL SIGN**  
QTY. 6 REQUIRED



**AUXILIARY SIGN - CHEVRON**  
QTY. 18 REQUIRED

AS-02	
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY E.I.L. ROUTE 90/94 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
ONTARIO TO EDENS JUNCTION	
FIBER OPTIC AUXILIARY SIGNAGE	
GENERAL ARRANGEMENT OF SIGN FACE	
02/19/93 ISSUED FOR REVLAC BID	REV
01/13/93 REVLAC PRELIMINARY REVIEW	NDMC
11/13/92 JWB REVIEW	4482
10/05/92 REVLAC PRELIMINARY	DATE 10/3/91
DATE	REVISION

FOR INFORMATION ONLY

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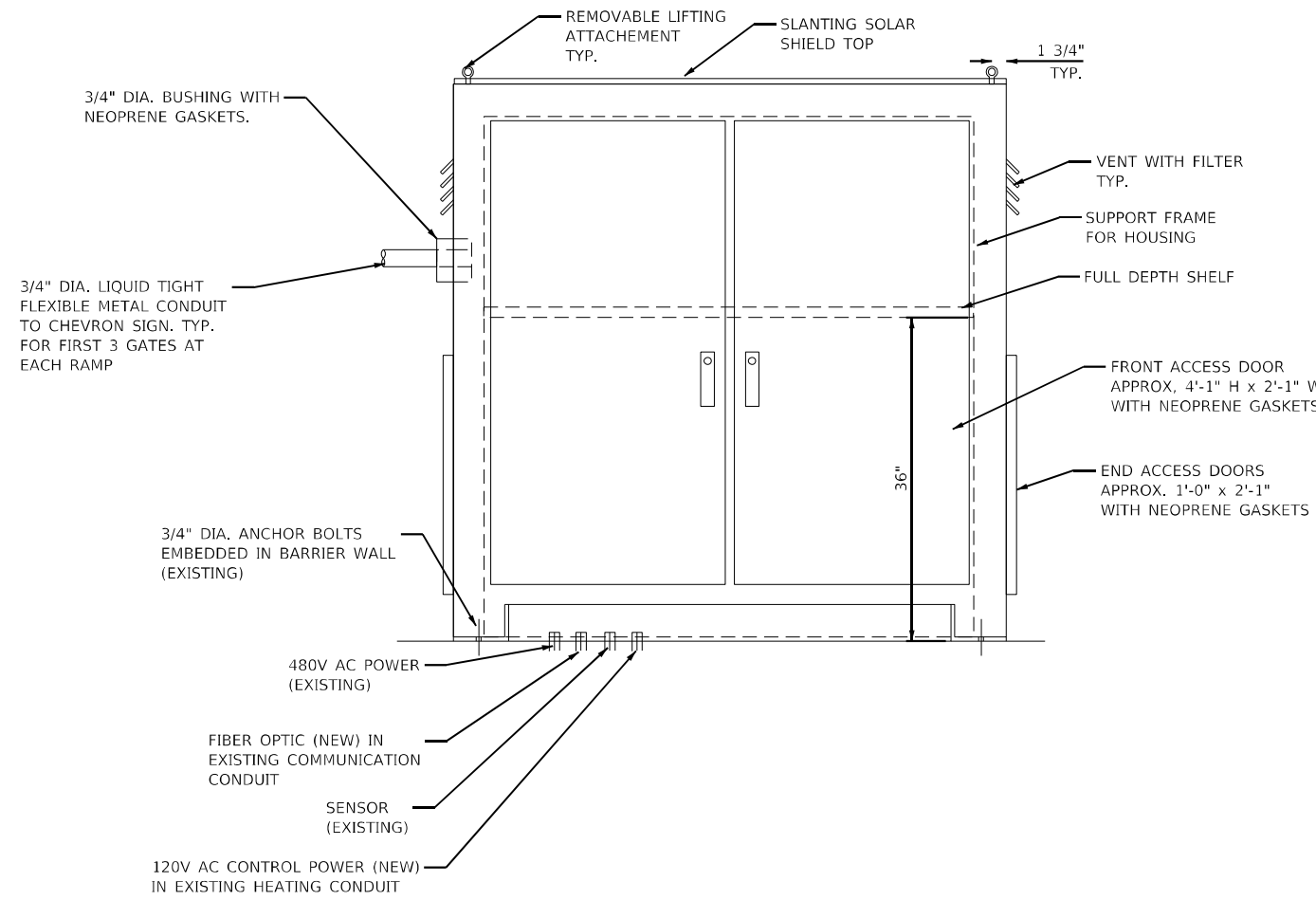
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	DATE - 1/27/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

AUXILIARY SIGNS			
SCALE: NTS	SHEET 6	OF 25 SHEETS	STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	258	137
CONTRACT NO. 60746				
ILLINOIS FED. AID PROJECT				

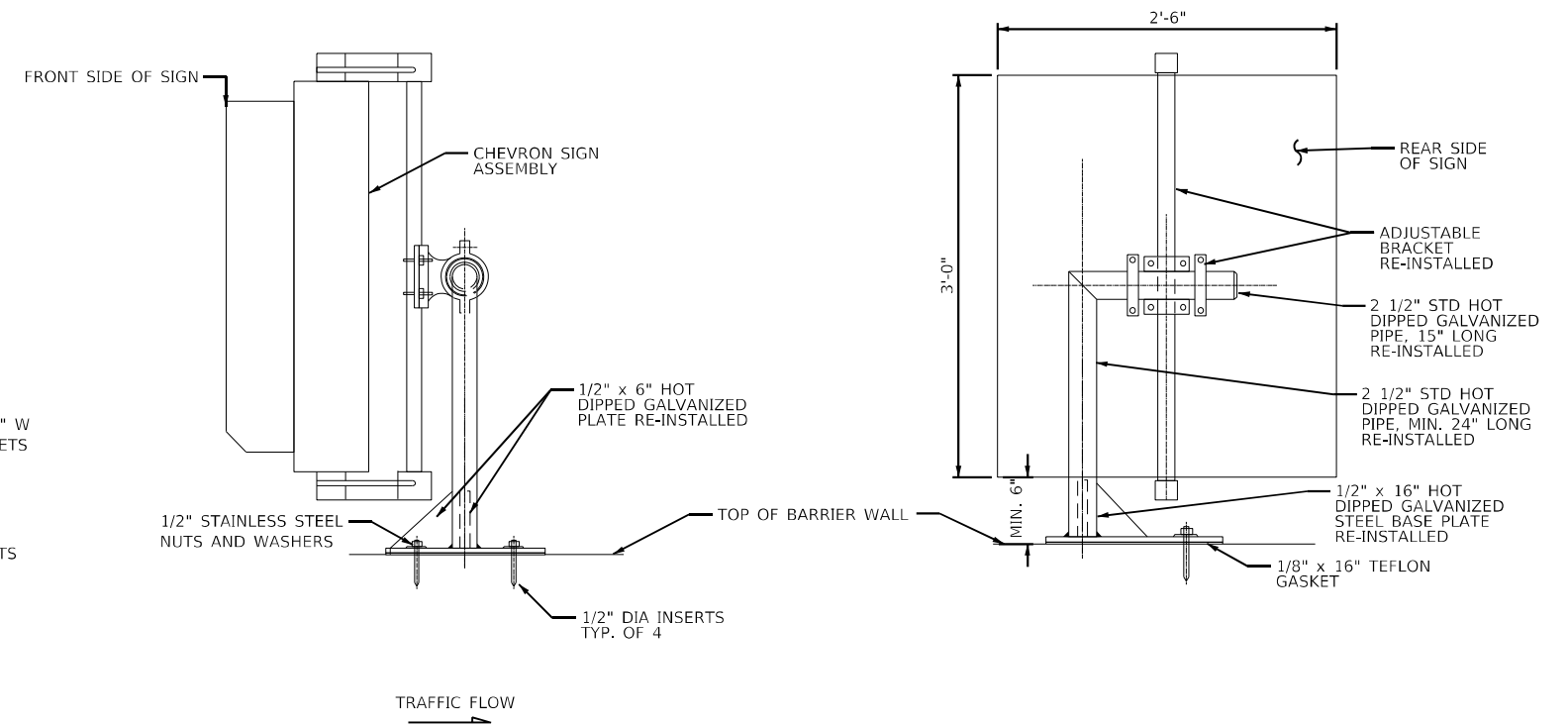
TG-10B



**NOTES:**

1. CONTRACTOR SHALL FURNISH AND INSTALL A 60" x 60" x 18" STAINLESS STEEL ENCLOSURE. FOR GATE CONTROL EQUIPMENT CONFIGURATION, REFER TO SHEETS TG-11 THROUGH TG-19.
2. THE SHELF SHALL SEPARATE THE SWING GATE REMOTE I/O PANEL COMPONENTS, INSTALLED ABOVE, FROM THE ELECTRICAL AND MECHANICAL COMPONENTS OF THE GATES INSTALLED AS SHOWN ON SHEETS TG-11 THROUGH TG-19.
3. SEE SHEETS SC-39 THROUGH SC-41 FOR REMOTE I/O PANEL COMPONENTS INSTALLATION DETAILS.
4. THE SHELF SHALL HAVE THREE (3) 1 1/2" DIA. OPENINGS TO ALLOW PASSAGE OF THE 120V AC CONTROL POWER WIRING, FIBER OPTIC CABLE AND CONTROL WIRING BETWEEN REMOTE I/O PANEL AND GATE MOTOR CONTROL.
5. HOUSING WITH ITS SUPPORT FRAME SHALL BE A NEMA 4X RATING ENCLOSURE. THE PENETRATIONS SHALL BE SEALED OR GASKETED IN SUCH A WAY THAT THE ENCLOSURE WILL KEEP ITS NEMA 4X RATING.
6. AN INTERIOR LED WORK LIGHT SHALL BE PROVIDED AT THE TOP OF THE HOUSING. A DOOR SWITCH SHALL BE INSTALLED TO TURN THE LED LIGHT ON WHEN THE FRONT DOOR IS OPEN.

**SWING GATE HOUSING DETAIL**  
N.T.S.



**SIDE ELEVATION**

**FRONT ELEVATION**

**NOTES:**

1. THE CHEVRON SIGNS SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE AS DESCRIBED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE TO MOUNT THE SIGN UPON THE CONCRETE BARRIER WALL.
2. THE CONTRACTOR SHALL POSITION THE SIGN TO PREVENT THE SIGN EDGES FROM EXTENDING BEYOND THE WIDEST PORTION OF THE BARRIER WALL. AFTER FINAL POSITION OF SIGN IS DETERMINED AND APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL DRILL A HOLE IN THE HORIZONTAL PIPE SUPPORT OF THE MINIMUM SIZE REQUIRED FOR THE POWER AND CONTROL WIRING AND AT THE APPROPRIATE LOCATION TO CONTINUE THE WIRING INTO THE SIGN ADJUSTABLE BRACKET..
3. THE CONTRACTOR SHALL ROUTE ALL POWER AND CONTROL WIRING TO THE CHEVRON SIGN THROUGH THE PIPE POST ASSEMBLY AND THE ADJUSTABLE SUPPORT BRACKET.
4. ALL DIMENSIONS AND DETAILS ARE ONLY FOR THE PRESENTATION OF FUNCTIONAL CONCEPTS. THE CONTRACTOR AND HIS VENDORS SHALL BE RESPONSIBLE FOR ALL LAYOUTS AND COORDINATION OF WORK.

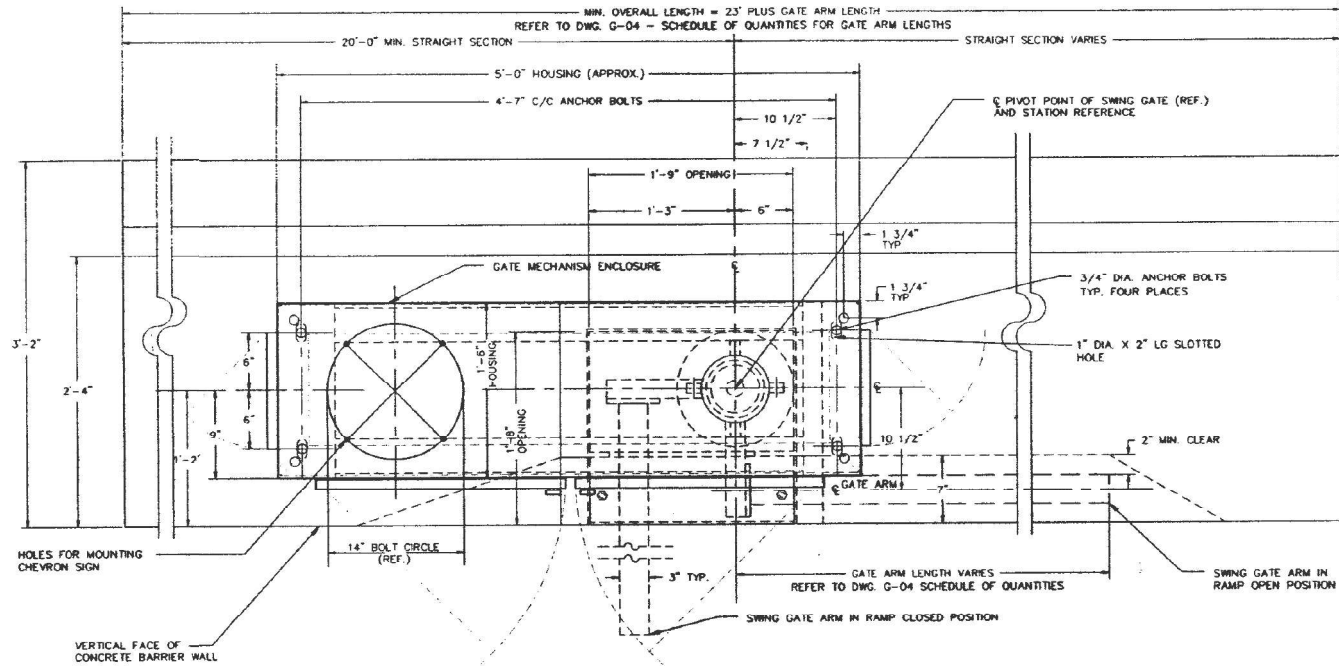
**CHEVRON SIGN INSTALLATION DETAIL**  
N.T.S.

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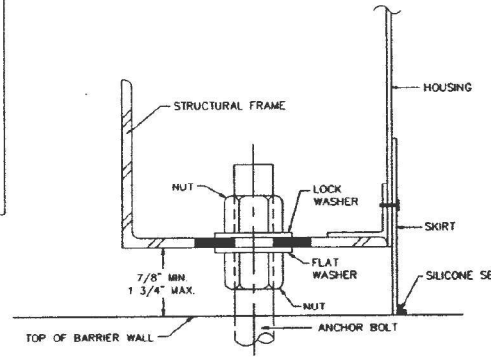
DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	333	37
FED. ROAD DIST. NO.		STATE	PROJECT	
		ILLINOIS	1991 - 002 I	

**NOTES :**

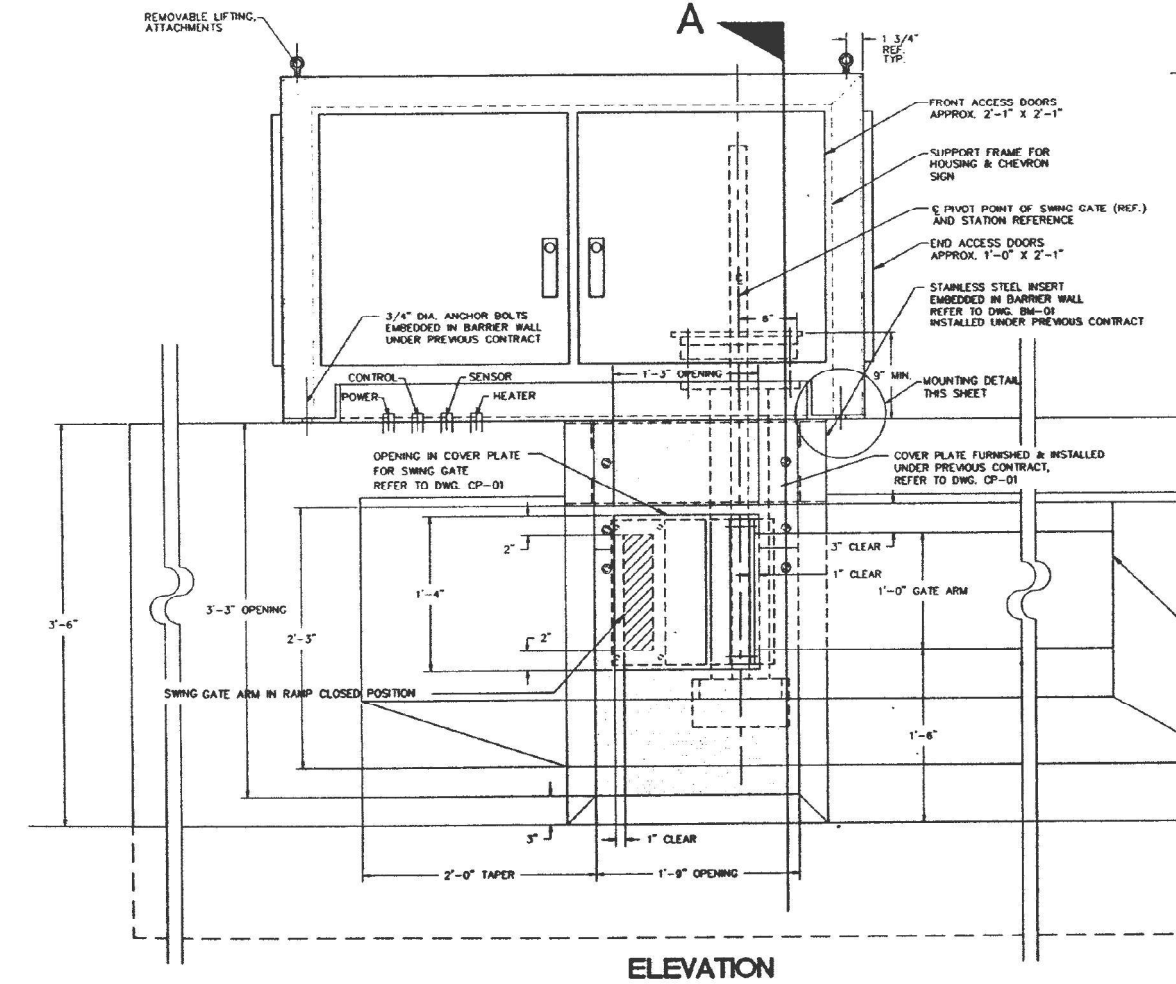
- THE SWING GATE VENDOR SHALL SUPPLY THE SWING GATE UNITS AS DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - MATERIAL ONLY. MAJOR COMPONENTS INCLUDE GATE ACTUATOR TRANSMISSION & CRANK ARM ASSEMBLY, GATE ARM CAPSTAN & MOUNTING BRACKET, SUPPORT FRAME, HOUSING, GATE ARM, DRIVE MOTOR, AND CONTROLS.
- THE CONTRACTOR SHALL INSTALL EACH UNIT LEVEL, PLUMB, AND TRUE AND AS ADDITIONALLY DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - INSTALLATION ONLY. REFER ALSO TO DRAWINGS G-7 & G-8.
- THE CONTRACTOR SHALL VERIFY ALL APPLICABLE FOUNDATION AND EQUIPMENT DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. REFER TO DRAWINGS BW-01 THROUGH BW-09 FOR SWING GATE FOUNDATIONS (BARRIER WALLS) AND ANCHOR BOLTS PROVIDED UNDER SEPARATE CONTRACTS. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



**PLAN - GENERAL ARRANGEMENT SWING GATE TYPE 'A' MOUNTING**



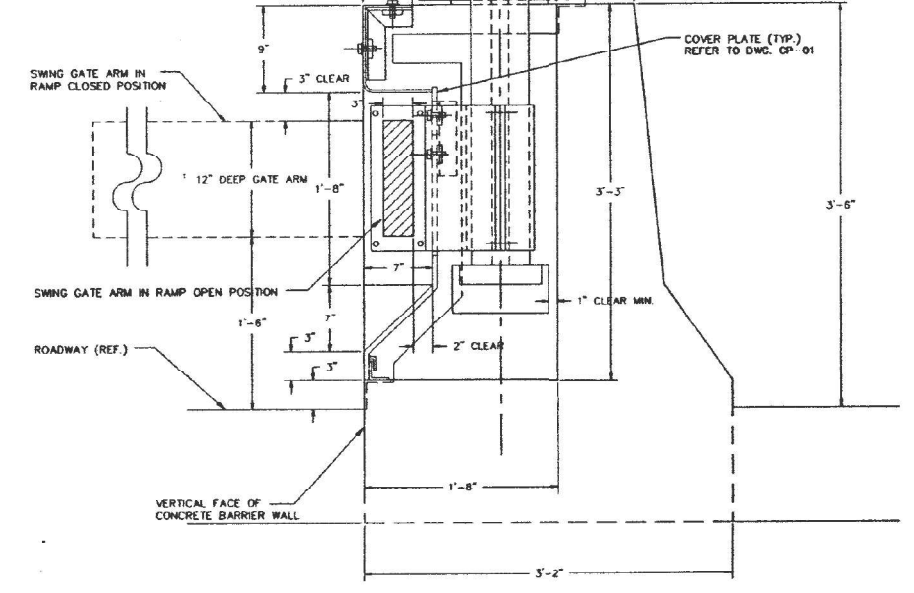
**MOUNTING DETAIL**  
NO SCALE



**ELEVATION**

**GATE ARM LENGTH SCHEDULE**

GATE ARM LENGTH	CONC. DIM. BFL. OVERALL LENGTH 'A'	GATE ARM RECESS LENGTH 'B'	GATE ARM BFL. RECT. 'C'
6	29'-0"	5'-6"	9'-0"
9	32'-0"	8'-6"	12'-0"
10	33'-0"	9'-6"	13'-0"
11	34'-0"	10'-6"	14'-0"
12	35'-0"	11'-6"	15'-0"
13	36'-0"	12'-6"	16'-0"
14	37'-0"	13'-6"	17'-0"
15	38'-0"	14'-6"	18'-0"
16	39'-0"	15'-6"	19'-0"
17	40'-0"	16'-6"	20'-0"
18	41'-0"	17'-6"	21'-0"
19	42'-0"	18'-6"	22'-0"
20	43'-0"	19'-6"	23'-0"
21	44'-0"	20'-6"	24'-0"
22	45'-0"	21'-6"	25'-0"
23	46'-0"	22'-6"	26'-0"
24	47'-0"	23'-6"	27'-0"
25	48'-0"	24'-6"	28'-0"
26	49'-0"	25'-6"	29'-0"
27	50'-0"	26'-6"	30'-0"



**SECTION 'A'**

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE		KENNEDY EXPRESSWAY F.A.I. ROUTE 90/94 RECONSTRUCTION PROJECT	
<b>REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM</b>			
<b>ONTARIO TO EDENS JUNCTION</b>			
<b>SWING GATE - INSTALLATION</b>			
<b>TYPE 'A' BARRIER WALL</b>			
<b>DOUBLE FACED BARRIER 42" HIGH</b>			
DATE: 02/19/93 ISSUED FOR REVLAC BID		DATE: 03/29/91 ISSUED	
DATE: 01/15/93 REVLAC PRELIMINARY REVIEW		DATE: 10/09/92 REVLAC PRELIMINARY REVIEW	
DATE: 07/03/92 GENERAL REVISIONS REVLAC		DATE: 05/15/91 PRE-FINAL REVIEW	
DATE: 10/16/90 PRELIMINARY BARRIER SUBMITTAL		DATE: 03/29/91 ISSUED	
Lester B. Knight & Associates, Inc. Architects - Engineers - Planners 300 West Marshall Road, Chicago, Illinois 60604 312-640-0000		PROJECT NO. 44B2 SCALE: NONE	

NO.	DATE	REVISION	BY
1	02/19/93	ISSUED FOR REVLAC BID	KNIGHT
2	01/15/93	REVLAC PRELIMINARY REVIEW	KNIGHT
3	10/09/92	REVLAC PRELIMINARY REVIEW	KNIGHT
4	07/03/92	GENERAL REVISIONS REVLAC	KNIGHT
5	05/15/91	PRE-FINAL REVIEW	KNIGHT
6	10/16/90	PRELIMINARY BARRIER SUBMITTAL	KNIGHT

FOR INFORMATION ONLY

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**KNIGHT**  
Engineers & Architects

FILE NAME = D180748-sh-TG-11.dgn	USER NAME = korabmp	DESIGNED - MB	REVISED -
PLOT SCALE = 2.00 / in.	PLOT DATE = 3/22/2022	DRAWN - MB	REVISED -
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		DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

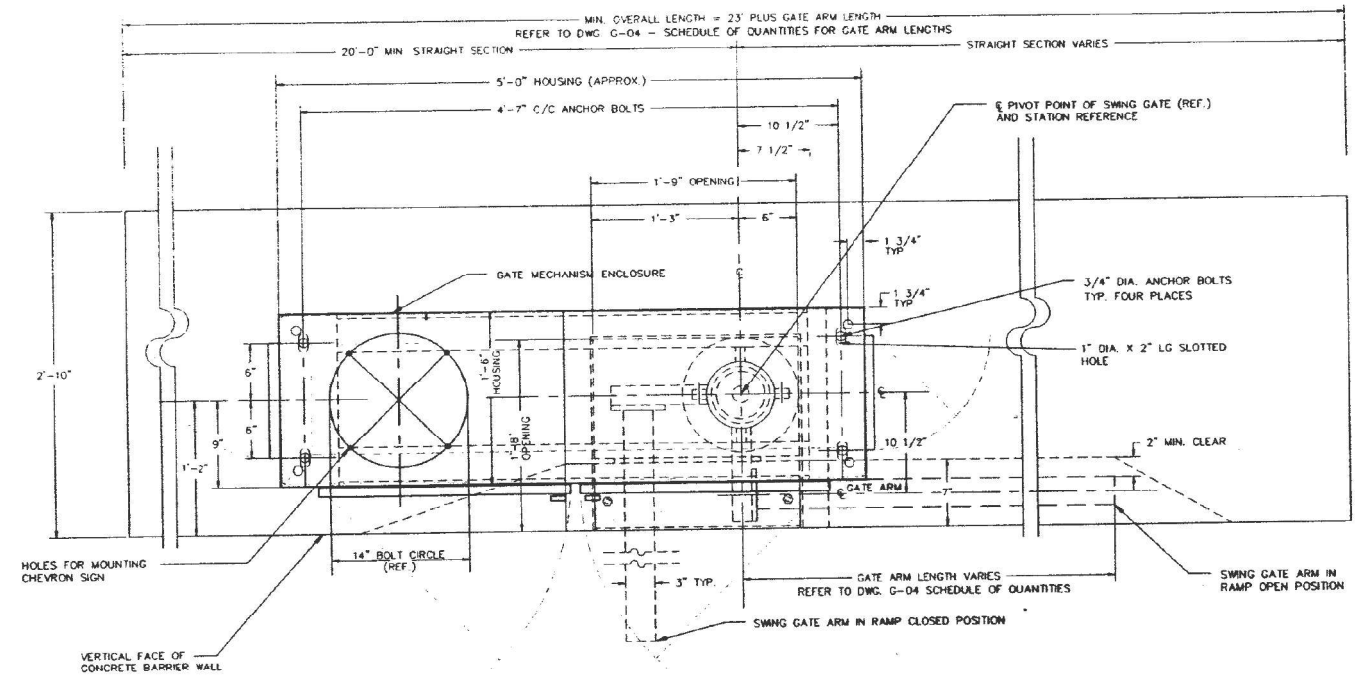
<b>TRAFFIC GATES AND BARRIERS</b>		F.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 288	SHEET NO. 142
SCALE: NTS	SHEET 11 OF 25 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 60T46		

ILLINOIS	FED. AID PROJECT
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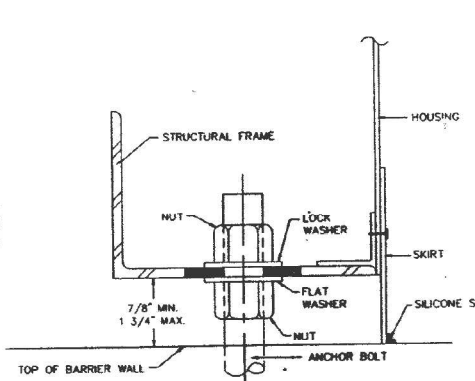
TG-11

**NOTES :**

1. THE SWING GATE VENDOR SHALL SUPPLY THE SWING GATE UNITS AS DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - MATERIAL ONLY. MAJOR COMPONENTS INCLUDE GATE ACTUATOR TRANSMISSION & CRANK ARM ASSEMBLY, GATE ARM CAPSTAN & MOUNTING BRACKET, SUPPORT FRAME, HOUSING, GATE ARM, DRIVE MOTOR, AND CONTROLS.
2. THE CONTRACTOR SHALL INSTALL EACH UNIT LEVEL, PLUMB, AND TRUE AND AS ADDITIONALLY DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - INSTALLATION ONLY. REFER ALSO TO DRAWINGS G-7 & G-8.
3. THE CONTRACTOR SHALL VERIFY ALL APPLICABLE FOUNDATION AND EQUIPMENT DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. REFER TO DRAWINGS BW-01 THROUGH BW-09 FOR SWING GATE FOUNDATIONS (BARRIER WALLS) AND ANCHOR BOLTS PROVIDED UNDER SEPARATE CONTRACTS. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



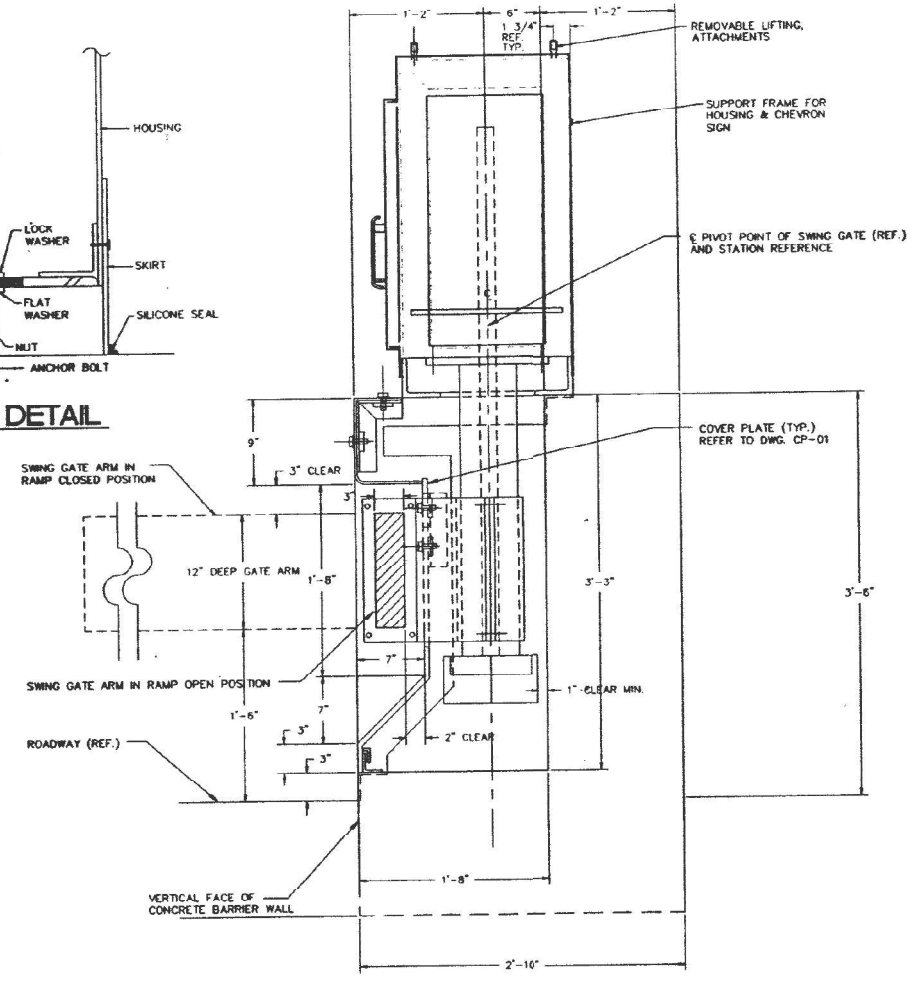
**PLAN - GENERAL ARRANGEMENT SWING GATE TYPE 'B' MOUNTING**



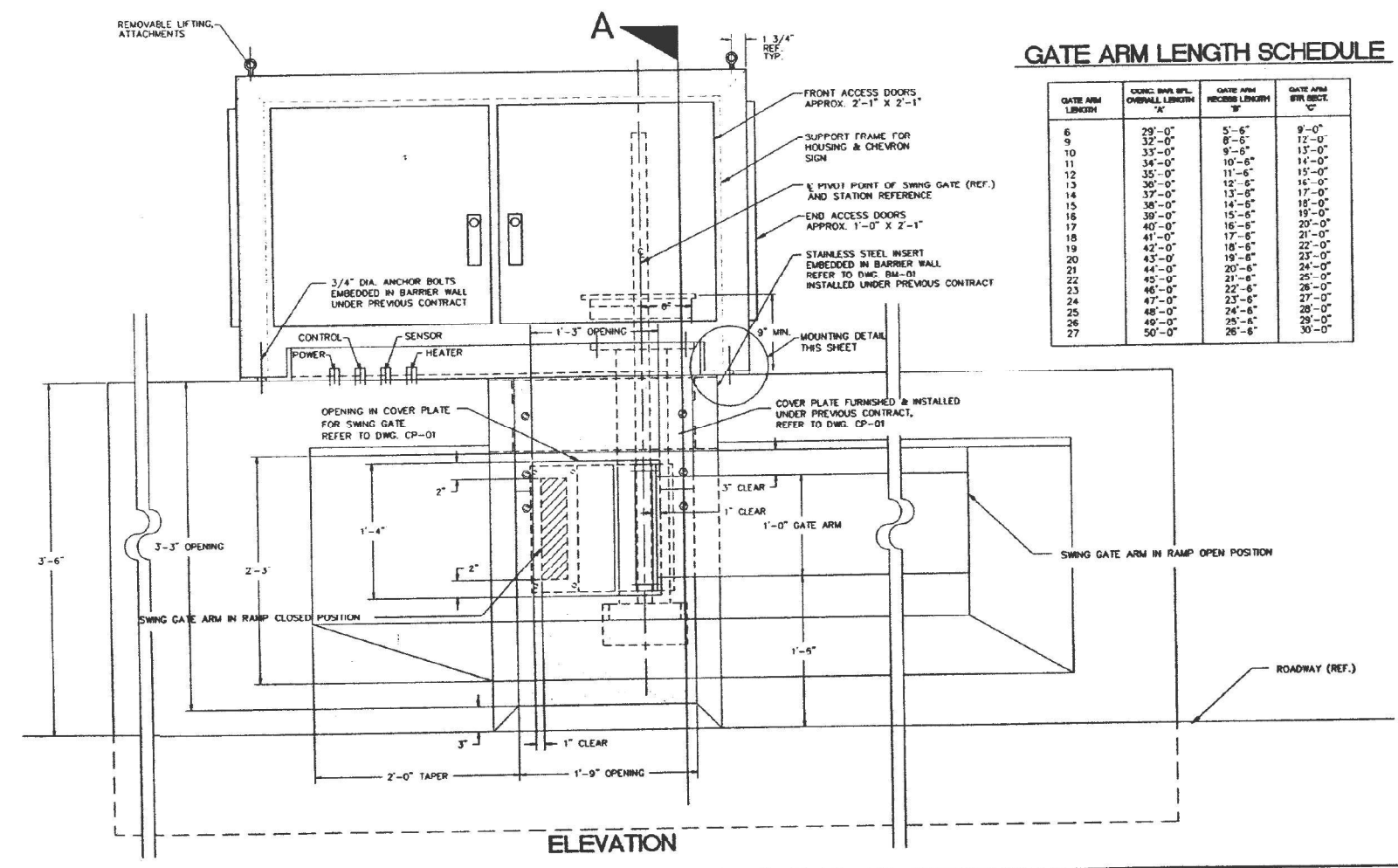
**MOUNTING DETAIL**

**GATE ARM LENGTH SCHEDULE**

GATE ARM LENGTH	CURVE RAY RPL. OVERALL LENGTH 'A'	GATE ARM RECEIVABLE LENGTH 'B'	GATE ARM SET BACK 'C'
6	28'-0"	5'-6"	9'-0"
9	32'-0"	8'-6"	12'-0"
10	33'-0"	9'-6"	13'-0"
11	34'-0"	10'-6"	14'-0"
12	35'-0"	11'-6"	15'-0"
13	36'-0"	12'-6"	16'-0"
14	37'-0"	13'-6"	17'-0"
15	38'-0"	14'-6"	18'-0"
16	39'-0"	15'-6"	19'-0"
17	40'-0"	16'-6"	20'-0"
18	41'-0"	17'-6"	21'-0"
19	42'-0"	18'-6"	22'-0"
20	43'-0"	19'-6"	23'-0"
21	44'-0"	20'-6"	24'-0"
22	45'-0"	21'-6"	25'-0"
23	46'-0"	22'-6"	26'-0"
24	47'-0"	23'-6"	27'-0"
25	48'-0"	24'-6"	28'-0"
26	49'-0"	25'-6"	29'-0"
27	50'-0"	26'-6"	30'-0"



**SECTION 'A'**



**ELEVATION**

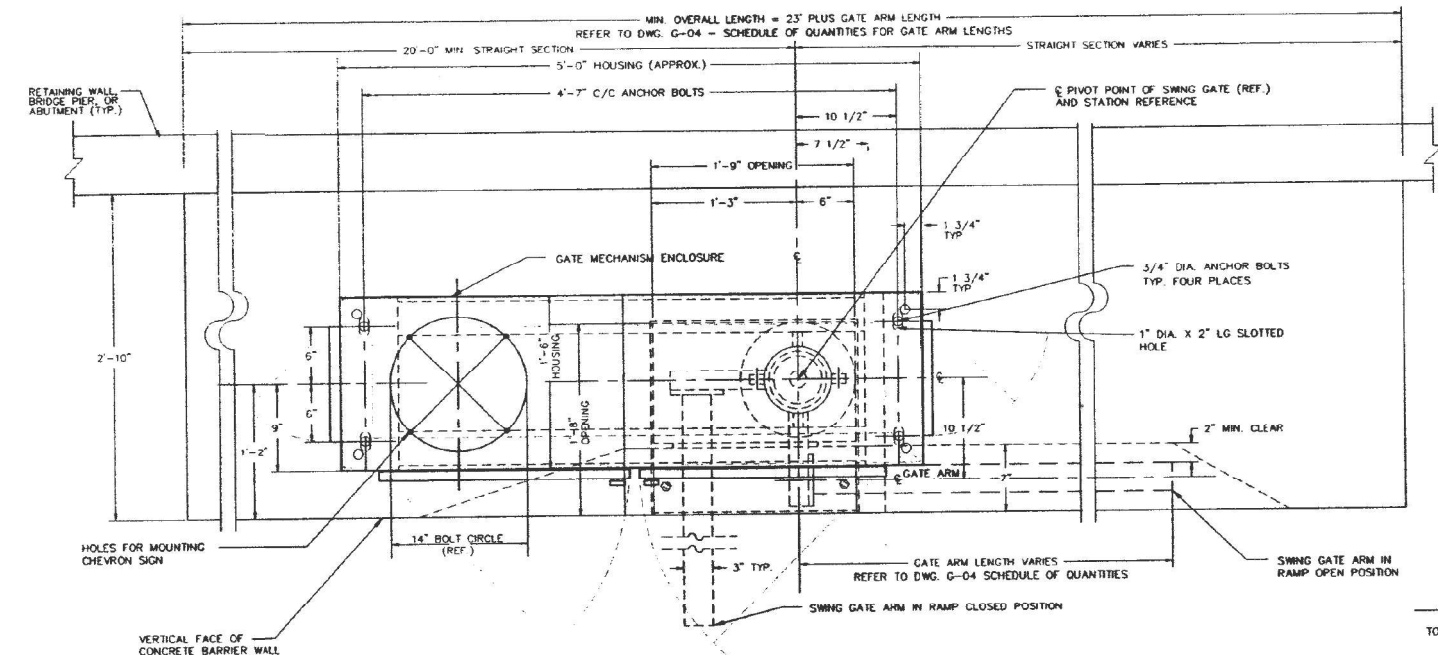
DRAWING NUMBER		SG-02	
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE		KENNEDY EXPRESSWAY F.A.L. ROUTE 90/94 RECONSTRUCTION PROJECT	
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM			
ONTARIO TO EDENS JUNCTION			
SWING GATE - INSTALLATION			
TYPE 'B' BARRIER WALL			
SINGLE FACED BARRIER 42" HIGH			
ISSUED FOR REVLAC BID	02/19/93	REVLAC PRELIMINARY REVIEW	01/15/93
REVLAC PRELIMINARY REVIEW	10/09/92	GENERAL REVISIONS REVLAC	01/05/93
PRE-FINAL REVIEW	05/15/93	PRELIMINARY BARRIER SUBMITTAL	10/16/90
NO.	DATE	REVISION	BY
			EDRIGHT

FOR INFORMATION ONLY

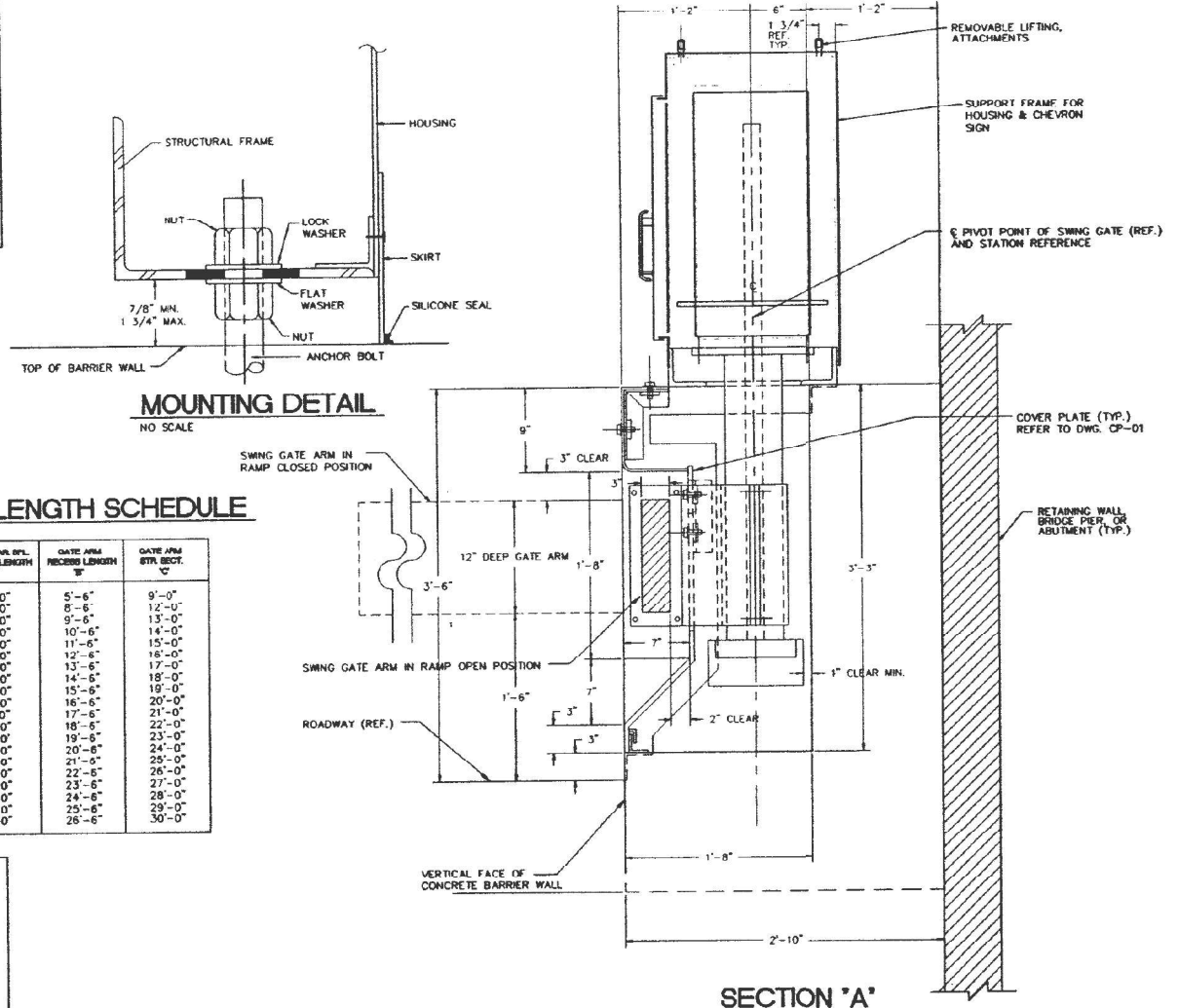
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**NOTES :**

1. THE SWING GATE VENDOR SHALL SUPPLY THE SWING GATE UNITS AS DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - MATERIAL ONLY. MAJOR COMPONENTS INCLUDE GATE ACTUATOR, TRANSMISSION & CRANK ARM ASSEMBLY, GATE ARM CAPSTAN & MOUNTING BRACKET, SUPPORT FRAME, HOUSING, GATE ARM, DRIVE MOTOR, AND CONTROLS.
2. THE CONTRACTOR SHALL INSTALL EACH UNIT LEVEL, PLUMB, AND TRUE AND AS ADDITIONALLY DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - INSTALLATION ONLY. REFER ALSO TO DRAWINGS G-7 & G-8.
3. THE CONTRACTOR SHALL VERIFY ALL APPLICABLE FOUNDATION AND EQUIPMENT DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. REFER TO DRAWINGS BW-01 THROUGH BW-09 FOR SWING GATE FOUNDATIONS (BARRIER WALLS) AND ANCHOR BOLTS PROVIDED UNDER SEPARATE CONTRACTS. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



**PLAN - GENERAL ARRANGEMENT SWING GATE TYPE 'C' MOUNTING**

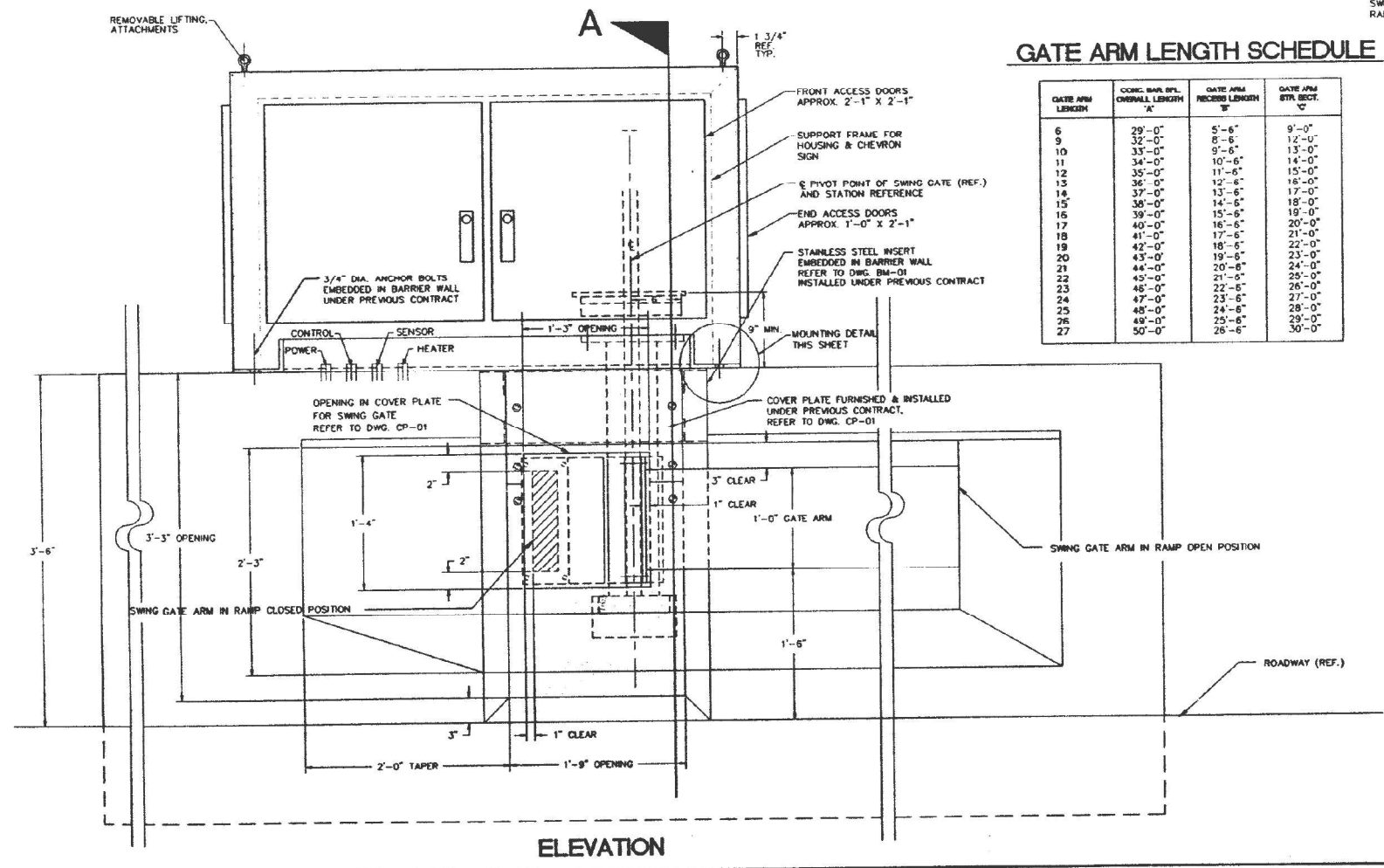


**MOUNTING DETAIL**  
NO SCALE

**SECTION 'A'**

**GATE ARM LENGTH SCHEDULE**

GATE ARM LENGTH	CONC. BAR. EPL. OVERALL LENGTH 'A'	GATE ARM FINISH LENGTH 'B'	GATE ARM EPL. SECT. 'C'
6	29'-0"	5'-6"	9'-0"
9	32'-0"	8'-6"	12'-0"
10	33'-0"	9'-6"	13'-0"
11	34'-0"	10'-6"	14'-0"
12	35'-0"	11'-6"	15'-0"
13	36'-0"	12'-6"	16'-0"
14	37'-0"	13'-6"	17'-0"
15	38'-0"	14'-6"	18'-0"
16	39'-0"	15'-6"	19'-0"
17	40'-0"	16'-6"	20'-0"
18	41'-0"	17'-6"	21'-0"
19	42'-0"	18'-6"	22'-0"
20	43'-0"	19'-6"	23'-0"
21	44'-0"	20'-6"	24'-0"
22	45'-0"	21'-6"	25'-0"
23	46'-0"	22'-6"	26'-0"
24	47'-0"	23'-6"	27'-0"
25	48'-0"	24'-6"	28'-0"
26	49'-0"	25'-6"	29'-0"
27	50'-0"	26'-6"	30'-0"



**ELEVATION**

NO.	DATE	REVISION	BY
02/19/93		ISSUED FOR REVLAC BID	
01/15/93		REVLAC PRELIMINARY REVIEW	
10/09/92		REVLAC PRELIMINARY	
01/03/92		GENERAL REVISIONS REVLAC	
05/15/91		PRELIMINARY REVIEW	
1/22/91		SECOND BARRIER SUBMITTAL	
10/16/90		PRELIMINARY BARRIER SUBMITTAL	

**SG-03**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE

KENNEDY EXPRESSWAY  
F.A.I. ROUTE 90/94  
RECONSTRUCTION PROJECT

**REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM**

**ONTARIO TO EDENS JUNCTION**

**SWING GATE - INSTALLATION**  
**TYPE 'C' BARRIER WALL**  
**SINGLE FACED BARRIER 42" HIGH**

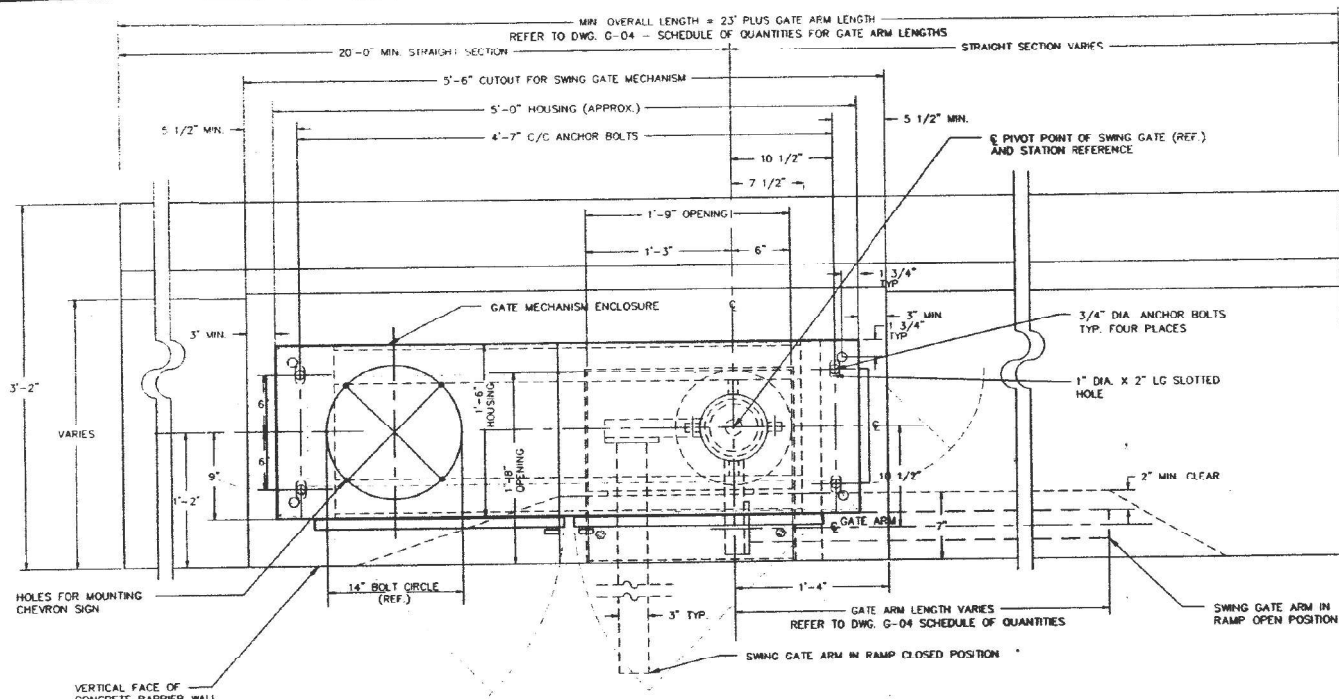
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Project No: 4482  
Date: 03/29/91

Lescher B. Knight & Associates, Inc.  
Architects - Engineers - Planners  
140 West Lincoln Road, Chicago, Illinois 60606-3000

FOR INFORMATION ONLY

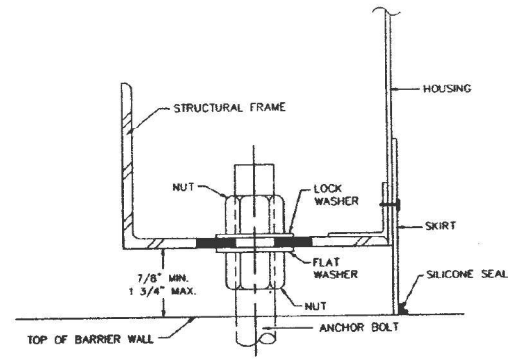
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DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	333	40
STA.	NO. STA.	ALIAS	PROJECT	



**NOTES :**

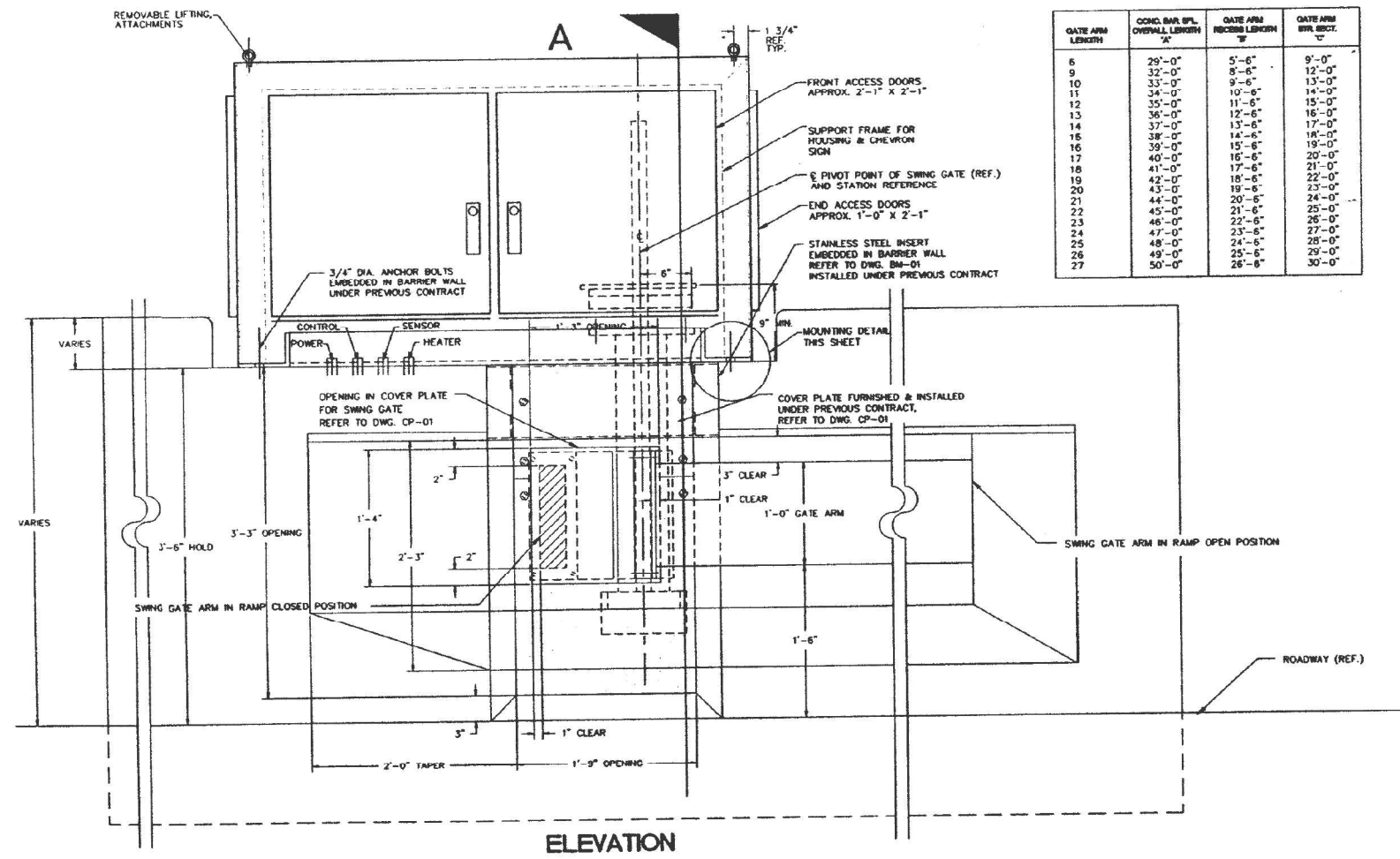
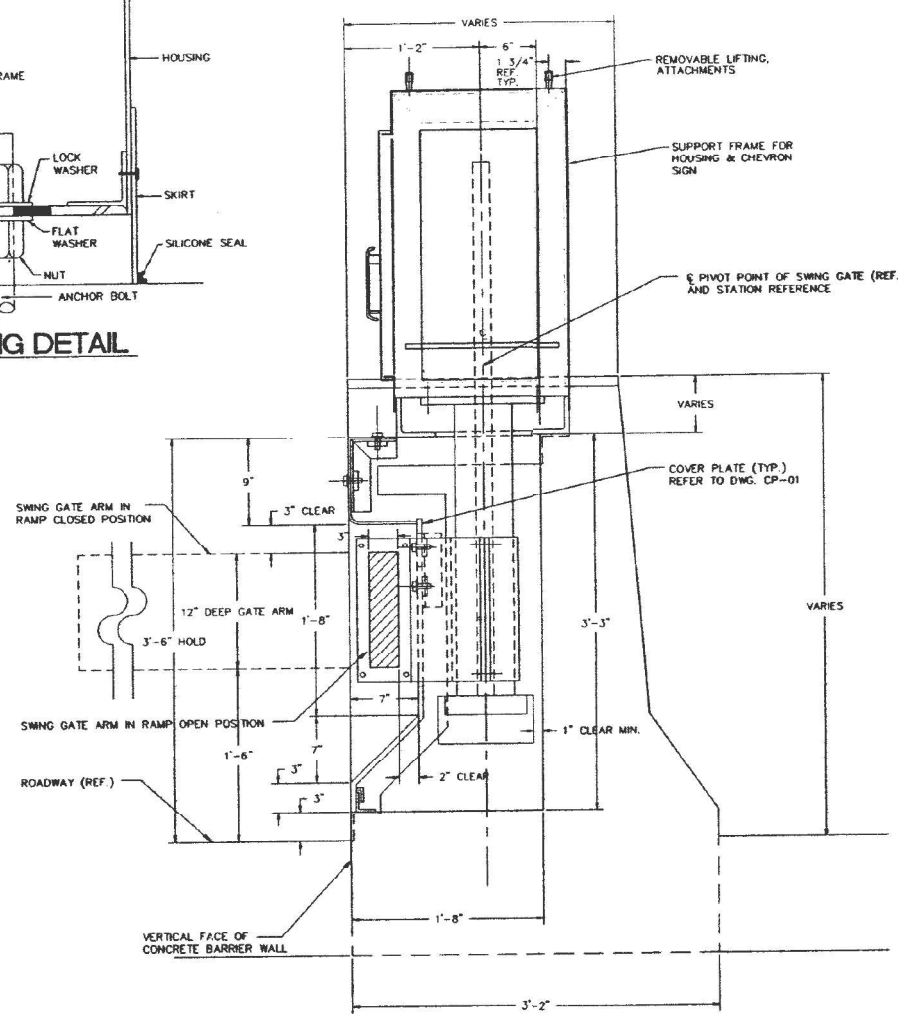
1. THE SWING GATE VENDOR SHALL SUPPLY THE SWING GATE UNITS AS DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - MATERIAL ONLY. MAJOR COMPONENTS INCLUDE GATE ACTUATOR TRANSMISSION & CRANK ARM ASSEMBLY, GATE ARM CAPSTAN & MOUNTING BRACKET, SUPPORT FRAME, HOUSING, GATE ARM, DRIVE MOTOR, AND CONTROLS.
2. THE CONTRACTOR SHALL INSTALL EACH UNIT LEVEL, PLUMB, AND TRUE AND AS ADDITIONALLY DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - INSTALLATION ONLY. REFER ALSO TO DRAWINGS G-7 & G-8.
3. THE CONTRACTOR SHALL VERIFY ALL APPLICABLE FOUNDATION AND EQUIPMENT DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. REFER TO DRAWINGS BW-01 THROUGH BW-09 FOR SWING GATE FOUNDATIONS (BARRIER WALLS) AND ANCHOR BOLTS PROVIDED UNDER SEPARATE CONTRACTS. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



**PLAN - GENERAL ARRANGEMENT SWING GATE TYPE 'A-1' MOUNTING**

**GATE ARM LENGTH SCHEDULE**

GATE ARM LENGTHS	CONC. BAR. SPL. OVERALL LENGTH "A"	GATE ARM REVERSE LENGTH "B"	GATE ARM WHL. RECT. "C"
6	29'-0"	5'-6"	9'-0"
9	32'-0"	8'-6"	12'-0"
10	33'-0"	9'-6"	13'-0"
11	34'-0"	10'-6"	14'-0"
12	35'-0"	11'-6"	15'-0"
13	36'-0"	12'-6"	16'-0"
14	37'-0"	13'-6"	17'-0"
15	38'-0"	14'-6"	18'-0"
16	39'-0"	15'-6"	19'-0"
17	40'-0"	16'-6"	20'-0"
18	41'-0"	17'-6"	21'-0"
19	42'-0"	18'-6"	22'-0"
20	43'-0"	19'-6"	23'-0"
21	44'-0"	20'-6"	24'-0"
22	45'-0"	21'-6"	25'-0"
23	46'-0"	22'-6"	26'-0"
24	47'-0"	23'-6"	27'-0"
25	48'-0"	24'-6"	28'-0"
26	49'-0"	25'-6"	29'-0"
27	50'-0"	26'-6"	30'-0"



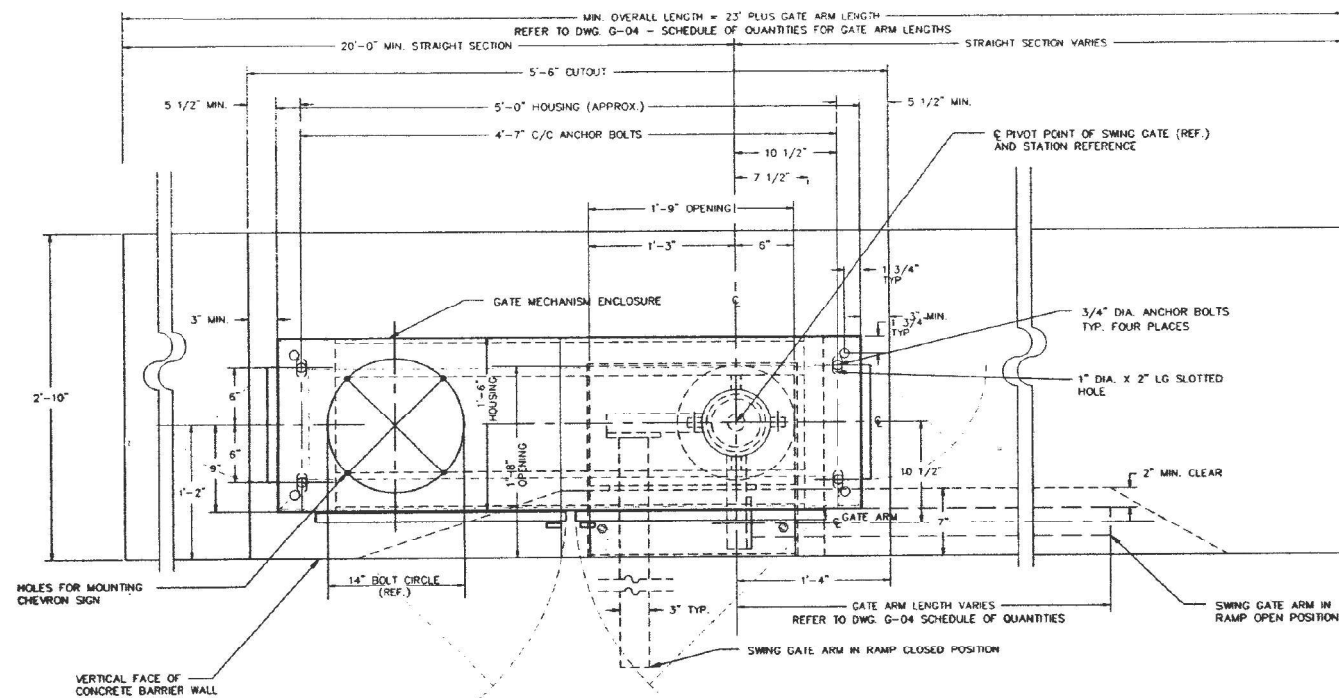
**ELEVATION**

ISSUE NO. SG-04	
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.L. ROUTE 90/94 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
ONTARIO TO EDENS JUNCTION	
SWING GATE - INSTALLATION	
TYPE 'A-1' BARRIER WALL DOUBLE FACED BARRIER VAR. HEIGHT	
DATE	BY
02/19/93	ISSUED FOR REV. LAC BID
07/15/93	REV. LAC PREFINAL REVIEW
10/09/92	REV. LAC PREFINAL
01/03/92	GENERAL REVISIONS REV. LAC
05/15/91	PRE-FINAL REVIEW
10/18/90	PRELIMINARY BARRIER SUBMITTAL
SCALE	DATE
NONE	03/29/91
DRAWN BY	DESIGNED BY
FRANCO BL.	4482
SCALE	DATE
NONE	03/29/91

FOR INFORMATION ONLY

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 CHECKED - CS  
 DATE - 1/27/2022  
 PLOT SCALE = 2.00 / in.  
 PLOT DATE = 3/22/2022  
 KNIGHT Engineers & Architects  
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC GATES AND BARRIERS  
 SCALE: NTS SHEET 14 OF 25 SHEETS STA. N/A TO STA. N/A  
 F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 90/94 2012-0081 COOK 288 145  
 CONTRACT NO. 60T46  
 ILLINOIS FED. AID PROJECT

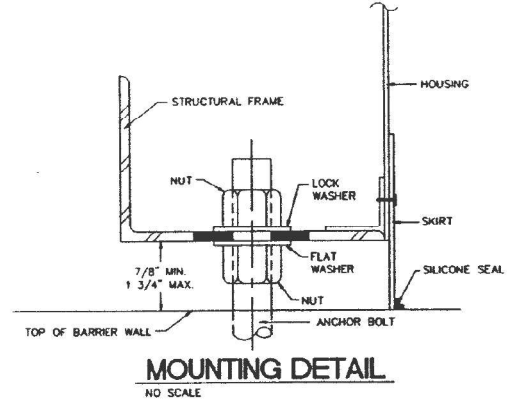
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90/94		COOK	33341
REV.	NO.	DATE	BY



PLAN - GENERAL ARRANGEMENT SWING GATE TYPE 'B-1' MOUNTING

**NOTES :**

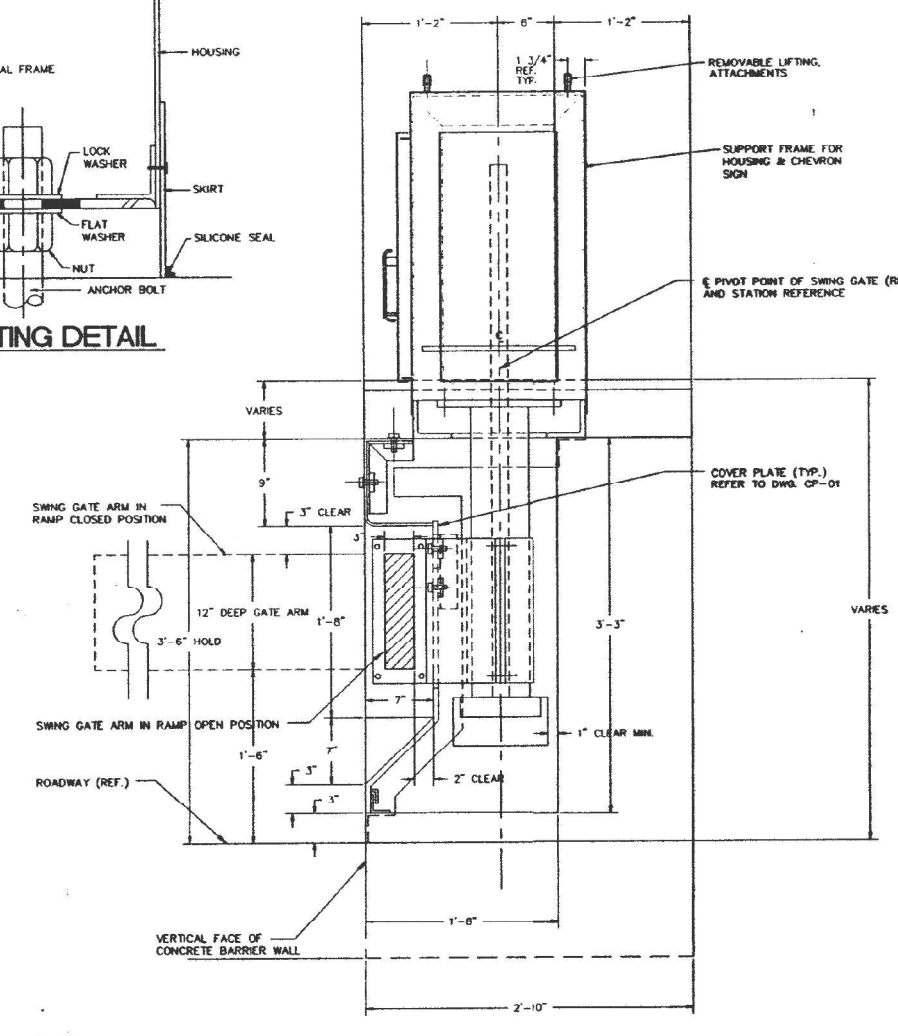
1. THE SWING GATE VENDOR SHALL SUPPLY THE SWING GATE UNITS AS DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - MATERIAL ONLY. MAJOR COMPONENTS INCLUDE GATE ACTUATOR TRANSMISSION & CRANK ARM ASSEMBLY, GATE ARM CAPSTAN & MOUNTING BRACKET, SUPPORT FRAME, HOUSING, GATE ARM, DRIVE MOTOR, AND CONTROLS.
2. THE CONTRACTOR SHALL INSTALL EACH UNIT LEVEL, PLUMB, AND TRUE AND AS ADDITIONALLY DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - INSTALLATION ONLY. REFER ALSO TO DRAWINGS G-7 & G-8.
3. THE CONTRACTOR SHALL VERIFY ALL APPLICABLE FOUNDATION AND EQUIPMENT DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. REFER TO DRAWINGS BW-01 THROUGH BW-09 FOR SWING GATE FOUNDATIONS (BARRIER WALLS) AND ANCHOR BOLTS PROVIDED UNDER SEPARATE CONTRACTS. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



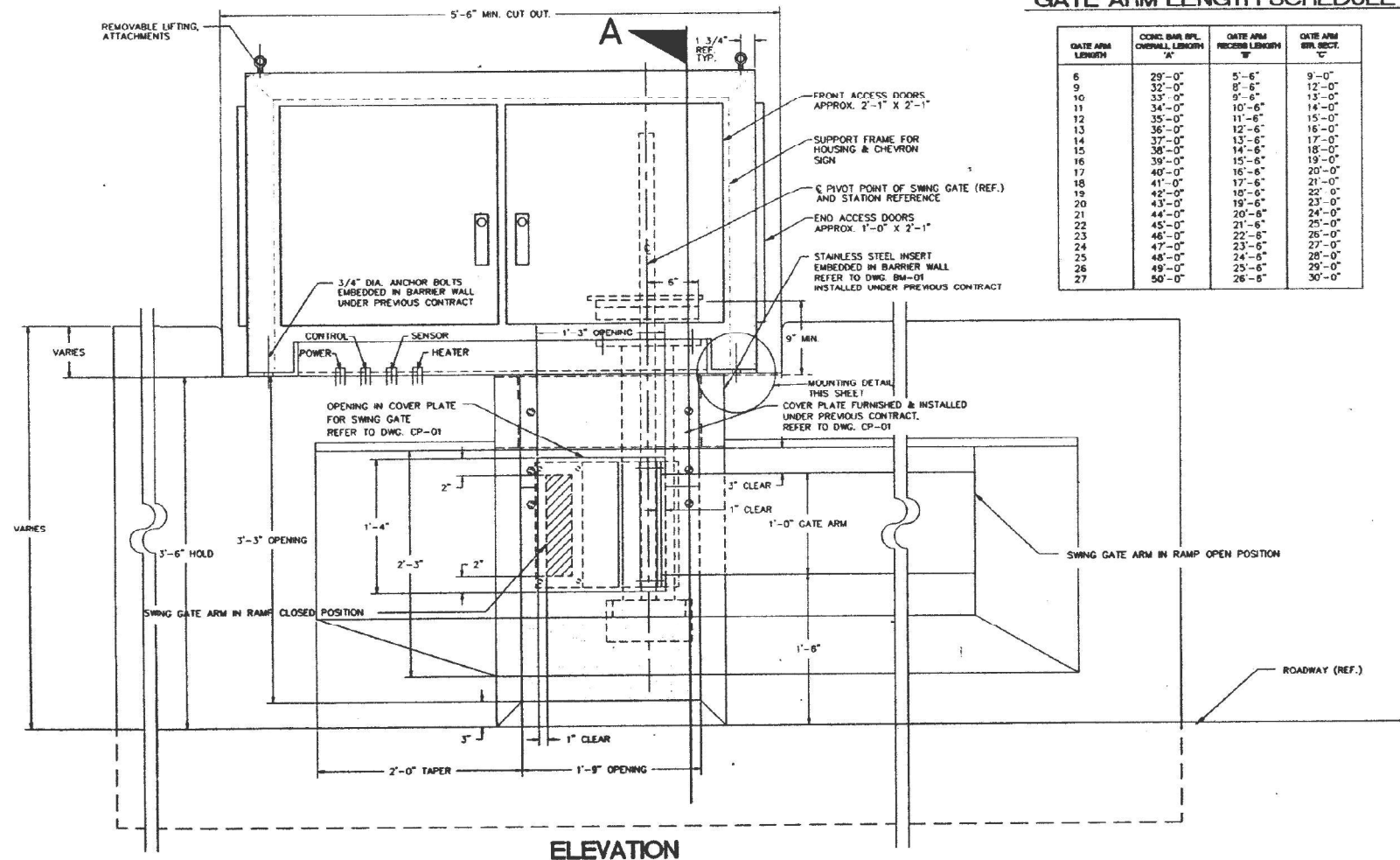
MOUNTING DETAIL  
NO SCALE

**GATE ARM LENGTH SCHEDULE**

GATE ARM LENGTH	CORD BAR SPL. ORIGINAL LENGTH 'A'	GATE ARM RECEIVED LENGTH 'B'	GATE ARM BAR SECT. 'C'
6	29'-0"	5'-6"	9'-0"
9	32'-0"	8'-6"	12'-0"
10	33'-0"	9'-0"	13'-0"
11	34'-0"	10'-0"	14'-0"
12	35'-0"	11'-0"	15'-0"
13	36'-0"	12'-0"	16'-0"
14	37'-0"	13'-0"	17'-0"
15	38'-0"	14'-0"	18'-0"
16	39'-0"	15'-0"	19'-0"
17	40'-0"	16'-0"	20'-0"
18	41'-0"	17'-0"	21'-0"
19	42'-0"	18'-0"	22'-0"
20	43'-0"	19'-0"	23'-0"
21	44'-0"	20'-0"	24'-0"
22	45'-0"	21'-0"	25'-0"
23	46'-0"	22'-0"	26'-0"
24	47'-0"	23'-0"	27'-0"
25	48'-0"	24'-0"	28'-0"
26	49'-0"	25'-0"	29'-0"
27	50'-0"	26'-0"	30'-0"



SECTION 'A'



ELEVATION

DRAWING NUMBER <b>SG-05</b>																						
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.L. ROUTE 90/94 RECONSTRUCTION PROJECT																					
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM																						
ONTARIO TO EDENS JUNCTION																						
SWING GATE - INSTALLATION TYPE "B-1" BARRIER WALL SINGLE FACED BARRIER, VAR. HEIGHT																						
<table border="1"> <tr><td>02/19/93</td><td>ISSUED FOR REVLAC BID</td></tr> <tr><td>01/15/93</td><td>REVLAC PREFINAL REVIEW</td></tr> <tr><td>10/09/92</td><td>REVLAC PREFINAL</td></tr> <tr><td>01/03/92</td><td>GENERAL REVISIONS REVLAC</td></tr> <tr><td>05/15/91</td><td>PRE-FINAL REVIEW</td></tr> <tr><td>10/16/90</td><td>PRELIMINARY BARRIER SUBMITTAL</td></tr> </table>	02/19/93	ISSUED FOR REVLAC BID	01/15/93	REVLAC PREFINAL REVIEW	10/09/92	REVLAC PREFINAL	01/03/92	GENERAL REVISIONS REVLAC	05/15/91	PRE-FINAL REVIEW	10/16/90	PRELIMINARY BARRIER SUBMITTAL	<table border="1"> <tr><td>SCALE</td><td>NONE</td><td>DATE</td></tr> <tr><td>PROJECT NO.</td><td>4482</td><td></td></tr> <tr><td>DATE</td><td>03/29/91</td><td></td></tr> </table>	SCALE	NONE	DATE	PROJECT NO.	4482		DATE	03/29/91	
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01/15/93	REVLAC PREFINAL REVIEW																					
10/09/92	REVLAC PREFINAL																					
01/03/92	GENERAL REVISIONS REVLAC																					
05/15/91	PRE-FINAL REVIEW																					
10/16/90	PRELIMINARY BARRIER SUBMITTAL																					
SCALE	NONE	DATE																				
PROJECT NO.	4482																					
DATE	03/29/91																					
Lester B. Knight & Associates, Inc. Architects - Engineers - Planners 300 East Randolph Street, Chicago, Illinois 60601-3030																						

FOR INFORMATION ONLY

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 05/15/91 PRE-FINAL REVIEW  
 10/16/90 PRELIMINARY BARRIER SUBMITTAL

**KNIGHT**  
Engineers & Architects

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		DRAWN - MB	REVISED -
		CHECKED - CS	REVISED -
		DATE - 1/27/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATES AND BARRIERS			
SCALE: NTS	SHEET 15	OF 25 SHEETS	STA. N/A TO STA. N/A

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
90/94	2012-0081	COOK	288 146
CONTRACT NO. 60746			
ILLINOIS		FED. AID PROJECT	

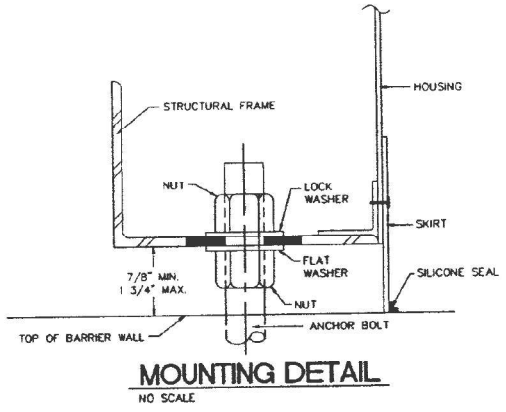
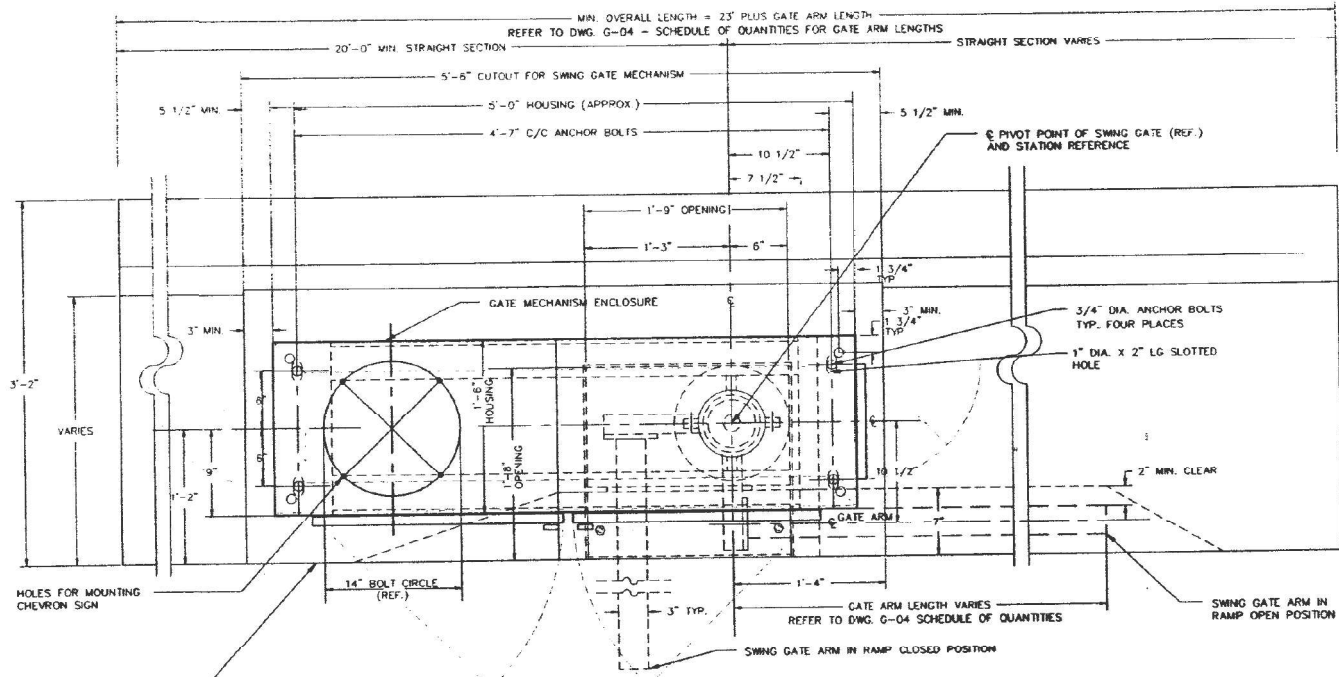
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FILE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
90/94	#	COOK	333	42
STA.	NO. STA.	PROJECT		

**NOTES :**

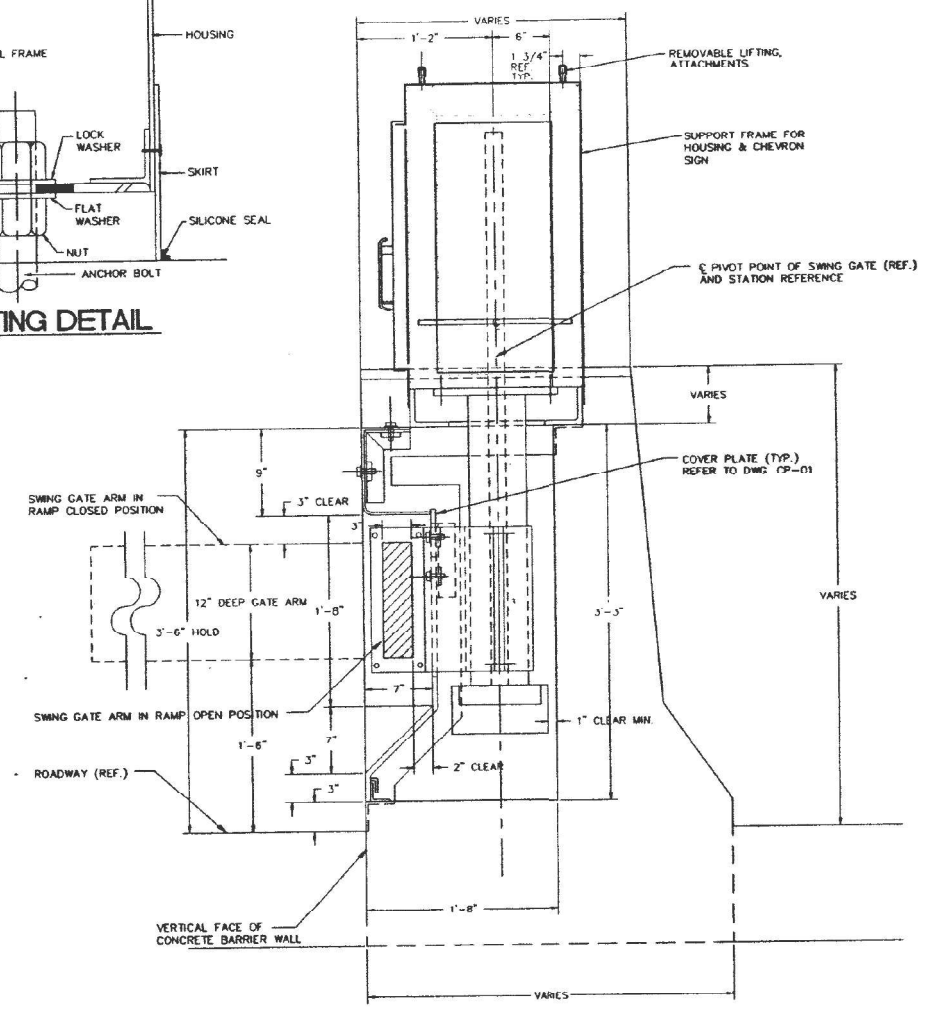
- THE SWING GATE VENDOR SHALL SUPPLY THE SWING GATE UNITS AS DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - MATERIAL ONLY. MAJOR COMPONENTS INCLUDE GATE ACTUATOR TRANSMISSION & CRANK ARM ASSEMBLY, GATE ARM CAPSTAN & MOUNTING BRACKET, SUPPORT FRAME, HOUSING, GATE ARM, DRIVE MOTOR, AND CONTROLS.
- THE CONTRACTOR SHALL INSTALL EACH UNIT LEVEL, PLUMB, AND TRUE AND AS ADDITIONALLY DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - INSTALLATION ONLY. REFER ALSO TO DRAWINGS G-7 & G-8.
- THE CONTRACTOR SHALL VERIFY ALL APPLICABLE FOUNDATION AND EQUIPMENT DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. REFER TO DRAWINGS BW-01 THROUGH BW-09 FOR SWING GATE FOUNDATIONS (BARRIER WALLS) AND ANCHOR BOLTS PROVIDED UNDER SEPARATE CONTRACTS. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



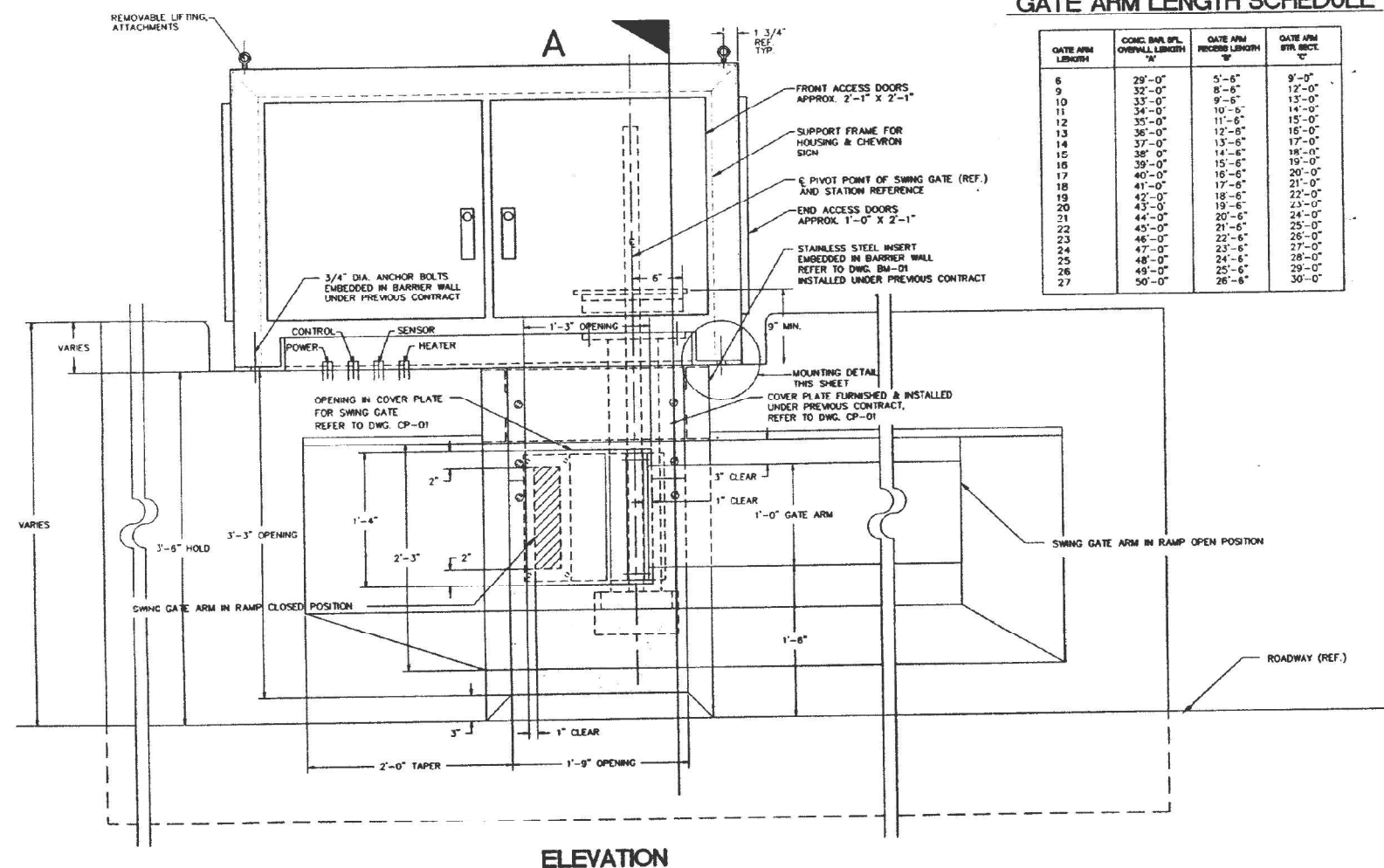
**PLAN - GENERAL ARRANGEMENT SWING GATE TYPE 'A-2' MOUNTING**

**GATE ARM LENGTH SCHEDULE**

GATE ARM LENGTH	CONC. BAR. SPL. OVERALL LENGTH	GATE ARM RECESSED LENGTH	GATE ARM STR. SECT. "
6	29'-0"	5'-6"	9'-0"
9	32'-0"	8'-6"	12'-0"
10	33'-0"	9'-6"	13'-0"
11	34'-0"	10'-6"	14'-0"
12	35'-0"	11'-6"	15'-0"
13	36'-0"	12'-6"	16'-0"
14	37'-0"	13'-6"	17'-0"
15	38'-0"	14'-6"	18'-0"
16	39'-0"	15'-6"	19'-0"
17	40'-0"	16'-6"	20'-0"
18	41'-0"	17'-6"	21'-0"
19	42'-0"	18'-6"	22'-0"
20	43'-0"	19'-6"	23'-0"
21	44'-0"	20'-6"	24'-0"
22	45'-0"	21'-6"	25'-0"
23	46'-0"	22'-6"	26'-0"
24	47'-0"	23'-6"	27'-0"
25	48'-0"	24'-6"	28'-0"
26	49'-0"	25'-6"	29'-0"
27	50'-0"	26'-6"	30'-0"



**SECTION 'A'**



**ELEVATION**

SG-06																																						
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.I. ROUTE 90/94 RECONSTRUCTION PROJECT																																					
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM																																						
ONTARIO TO EDENS JUNCTION																																						
SWING GATE - INSTALLATION TYPE "A-2" BARRIER WALL DOUBLE FACED BARRIER VAR. HEIGHT & WIDTH																																						
<table border="1"> <tr><th>NO.</th><th>DATE</th><th>REVISION</th><th>BY</th></tr> <tr><td>02/19/93</td><td></td><td>ISSUED FOR REV. BID</td><td></td></tr> <tr><td>01/15/93</td><td></td><td>REV. BID PRELIMINARY REVIEW</td><td></td></tr> <tr><td>10/09/92</td><td></td><td>REV. BID PRELIMINARY REVIEW</td><td></td></tr> <tr><td>01/01/92</td><td></td><td>GENERAL REVISIONS REV. BID</td><td></td></tr> <tr><td>05/15/91</td><td></td><td>PRE-FINAL REVIEW</td><td></td></tr> <tr><td>10/15/90</td><td></td><td>PRELIMINARY BARRIER SUBMITTAL</td><td></td></tr> </table>	NO.	DATE	REVISION	BY	02/19/93		ISSUED FOR REV. BID		01/15/93		REV. BID PRELIMINARY REVIEW		10/09/92		REV. BID PRELIMINARY REVIEW		01/01/92		GENERAL REVISIONS REV. BID		05/15/91		PRE-FINAL REVIEW		10/15/90		PRELIMINARY BARRIER SUBMITTAL		<table border="1"> <tr><th>SCALE</th><th>NAME</th><th>DATE</th></tr> <tr><td>SCALE</td><td>NAME</td><td>DATE</td></tr> <tr><td>4482</td><td>CHEN</td><td>03/29/91</td></tr> </table>	SCALE	NAME	DATE	SCALE	NAME	DATE	4482	CHEN	03/29/91
NO.	DATE	REVISION	BY																																			
02/19/93		ISSUED FOR REV. BID																																				
01/15/93		REV. BID PRELIMINARY REVIEW																																				
10/09/92		REV. BID PRELIMINARY REVIEW																																				
01/01/92		GENERAL REVISIONS REV. BID																																				
05/15/91		PRE-FINAL REVIEW																																				
10/15/90		PRELIMINARY BARRIER SUBMITTAL																																				
SCALE	NAME	DATE																																				
SCALE	NAME	DATE																																				
4482	CHEN	03/29/91																																				

FOR INFORMATION ONLY

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**KNIGHT**  
Engineers & Architects

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		DRAWN - MB	REVISED -
		CHECKED - CS	REVISED -
		DATE - 1/27/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATES AND BARRIERS

SCALE: NTS SHEET 16 OF 25 SHEETS STA. N/A TO STA. N/A

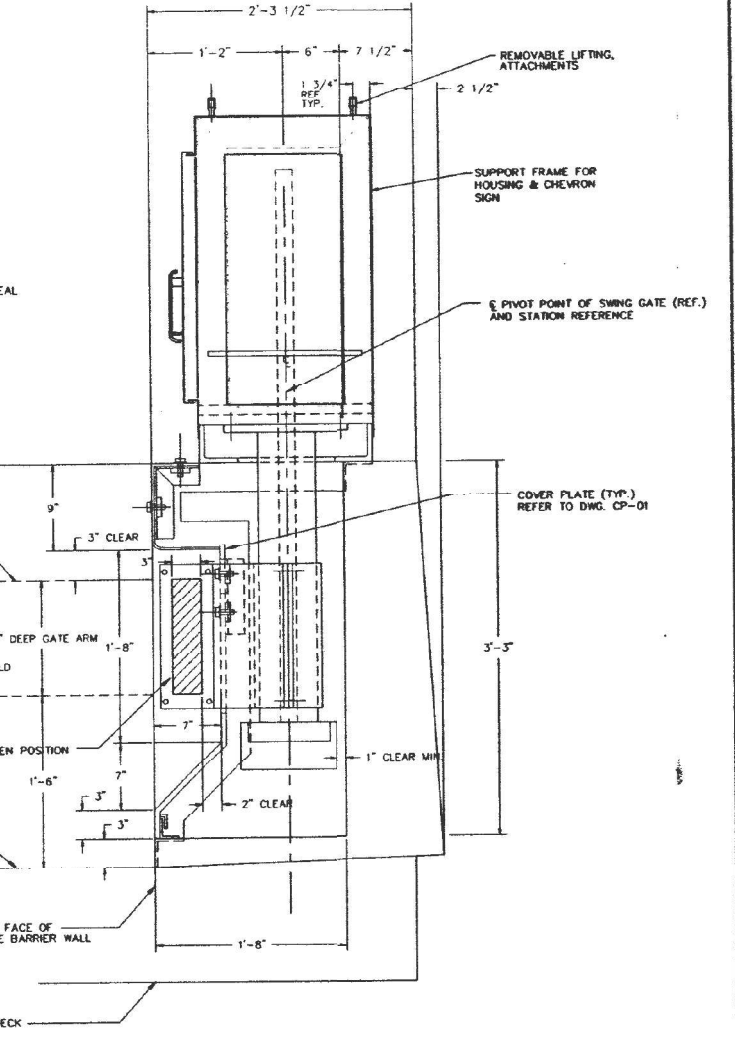
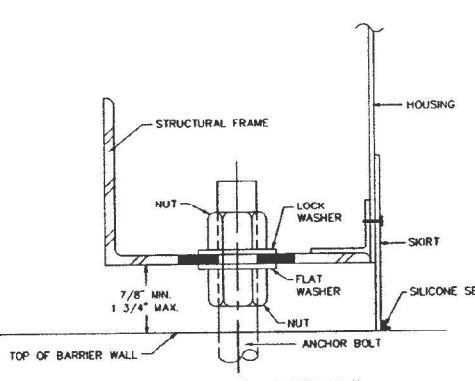
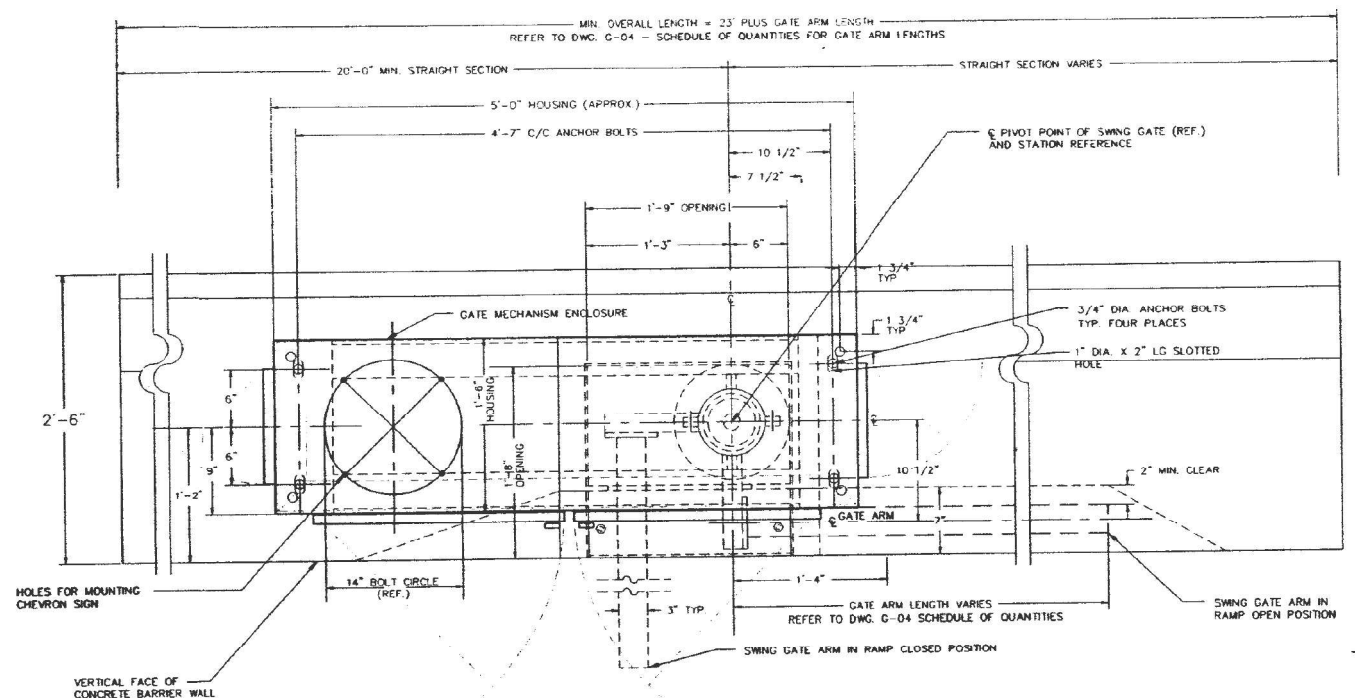
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
90/94	2012-0081	COOK	288
			147
CONTRACT NO. 60T46			

TG-16

ILLINOIS FED. AID PROJECT

**NOTES :**

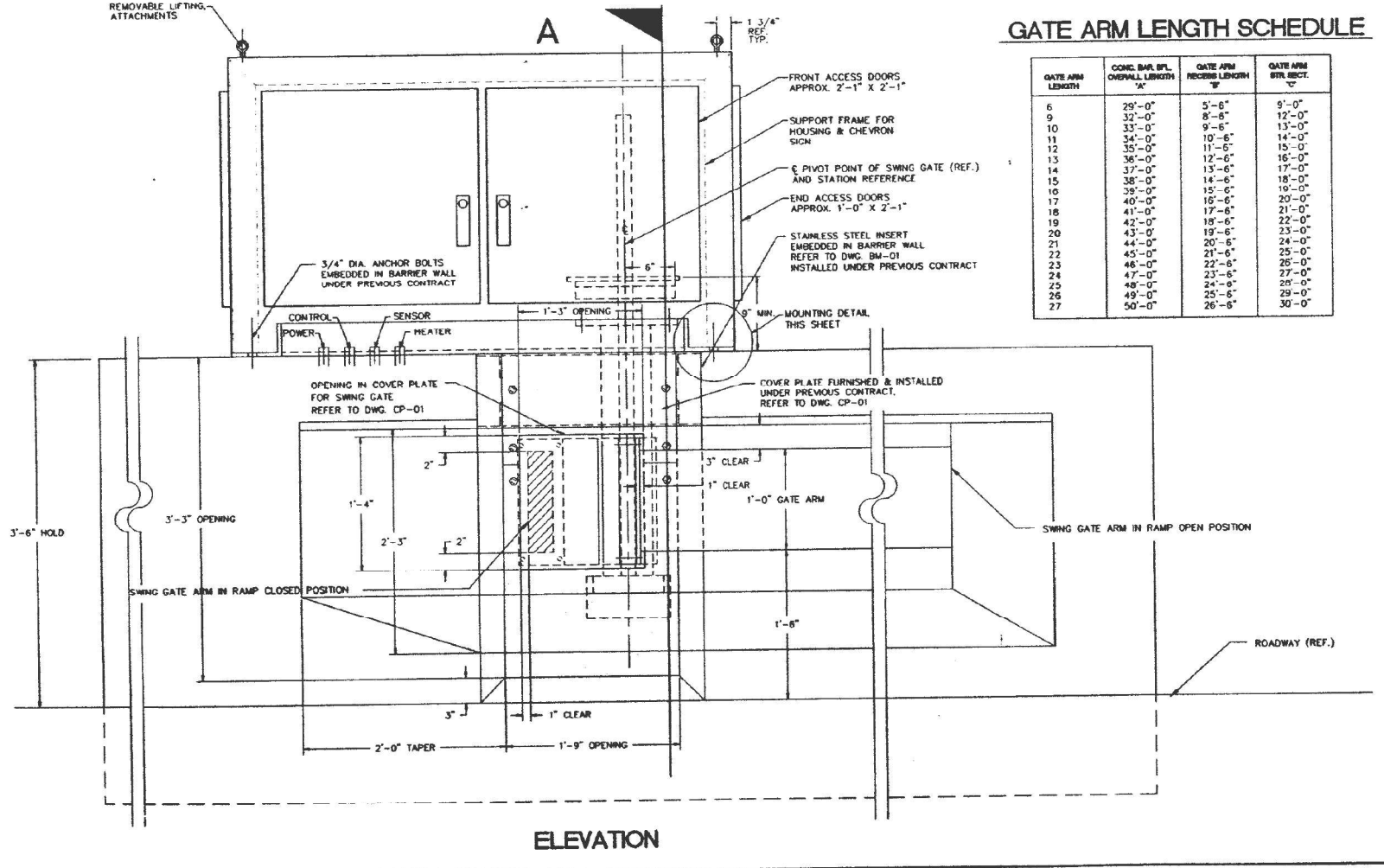
1. THE SWING GATE VENDOR SHALL SUPPLY THE SWING GATE UNITS AS DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - MATERIAL ONLY. MAJOR COMPONENTS INCLUDE GATE ACTUATOR TRANSMISSION & CRANK ARM ASSEMBLY, GATE ARM CAPSTAN & MOUNTING BRACKET, SUPPORT FRAME, HOUSING, GATE ARM, DRIVE MOTOR, AND CONTROLS.
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**PLAN - GENERAL ARRANGEMENT SWING GATE TYPE 'D' MOUNTING**

**GATE ARM LENGTH SCHEDULE**

GATE ARM LENGTH	COND. BAR. SPL. OVERALL LENGTH 'A'	GATE ARM REAR LENGTH 'B'	GATE ARM BFR. REAR 'C'
6	29'-0"	5'-6"	5'-0"
9	32'-0"	8'-6"	12'-0"
10	33'-0"	9'-6"	13'-0"
11	34'-0"	10'-6"	14'-0"
12	35'-0"	11'-6"	15'-0"
13	36'-0"	12'-6"	16'-0"
14	37'-0"	13'-6"	17'-0"
15	38'-0"	14'-6"	18'-0"
16	39'-0"	15'-6"	19'-0"
17	40'-0"	16'-6"	20'-0"
18	41'-0"	17'-6"	21'-0"
19	42'-0"	18'-6"	22'-0"
20	43'-0"	19'-6"	23'-0"
21	44'-0"	20'-6"	24'-0"
22	45'-0"	21'-6"	25'-0"
23	46'-0"	22'-6"	26'-0"
24	47'-0"	23'-6"	27'-0"
25	48'-0"	24'-6"	28'-0"
26	49'-0"	25'-6"	29'-0"
27	50'-0"	26'-6"	30'-0"



**ELEVATION**

**SECTION 'A'**

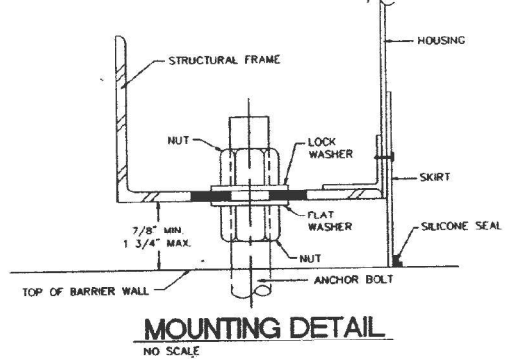
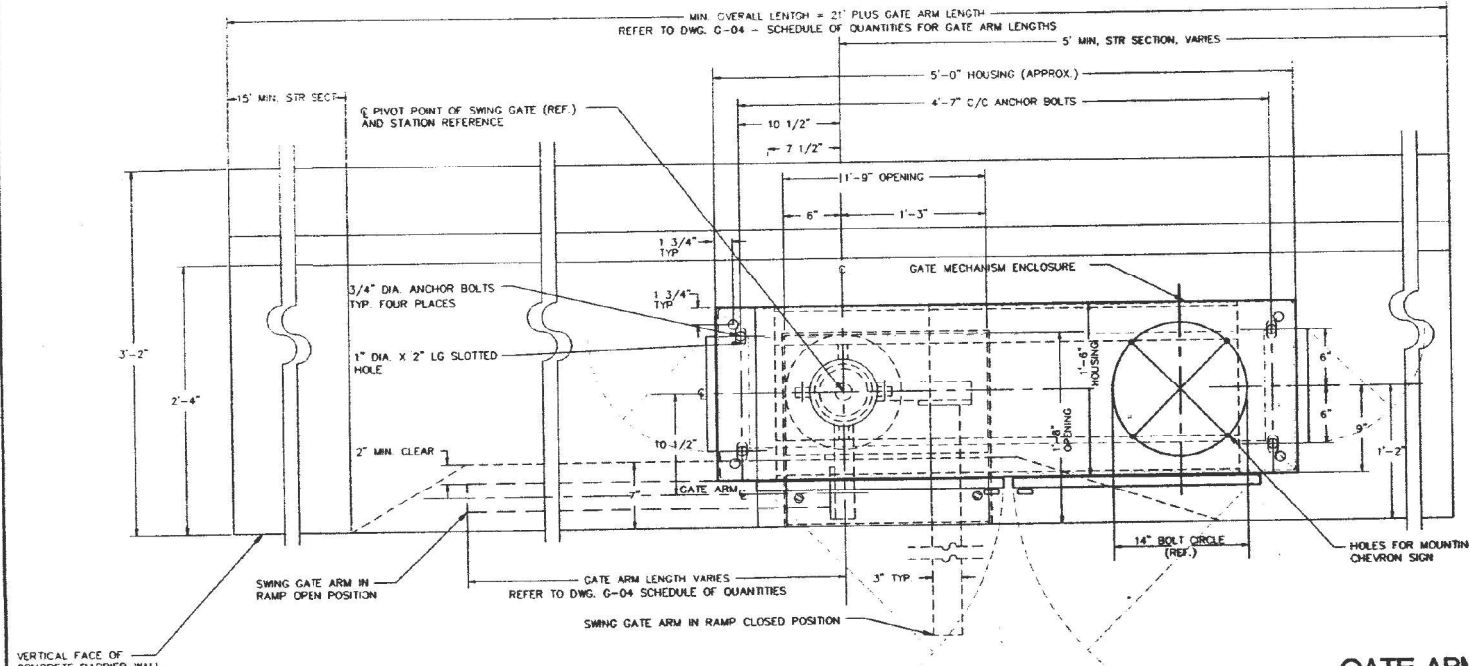
PROJECT NO. <b>SG-07</b>	
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.L. ROUTE 90/94 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
ONTARIO TO EDENS JUNCTION	
SWING GATE - INSTALLATION TYPE "D" BARRIER WALL SINGLE FACED BARRIER, 42' HEIGHT	
DATE: 02/19/93 01/15/93 10/09/92 07/03/92 05/15/91 10/18/90	ISSUED FOR REVLAC BID REVLAC PREFINAL REVIEW REVLAC PREFINAL GENERAL REVISIONS REVLAC PRE-FINAL REVIEW PRELIMINARY BARRIER SUBMITTAL
DATE: 03/23/91	PROJECT NO. 4482 SHEET 333 OF 43

FOR INFORMATION ONLY

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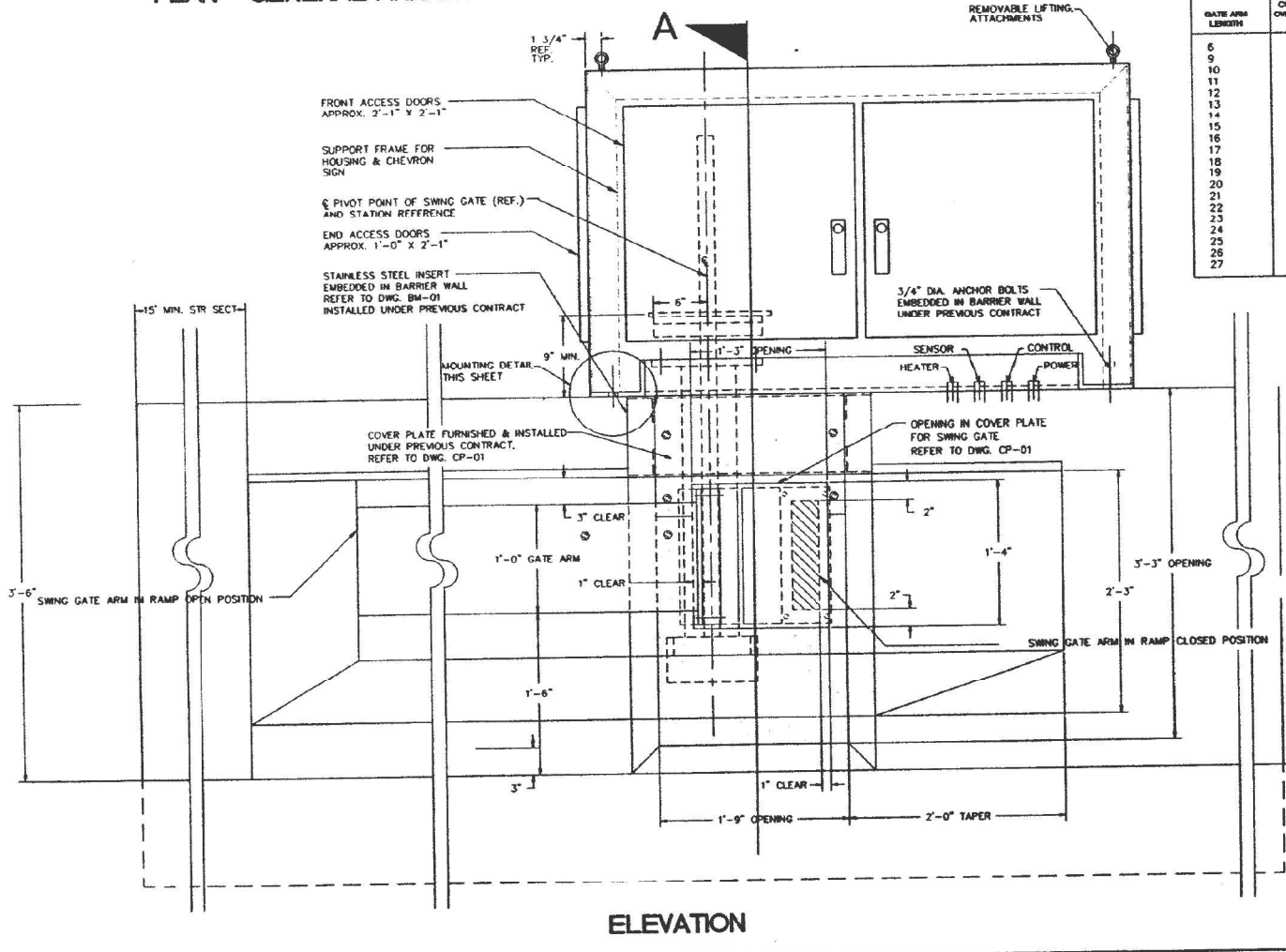
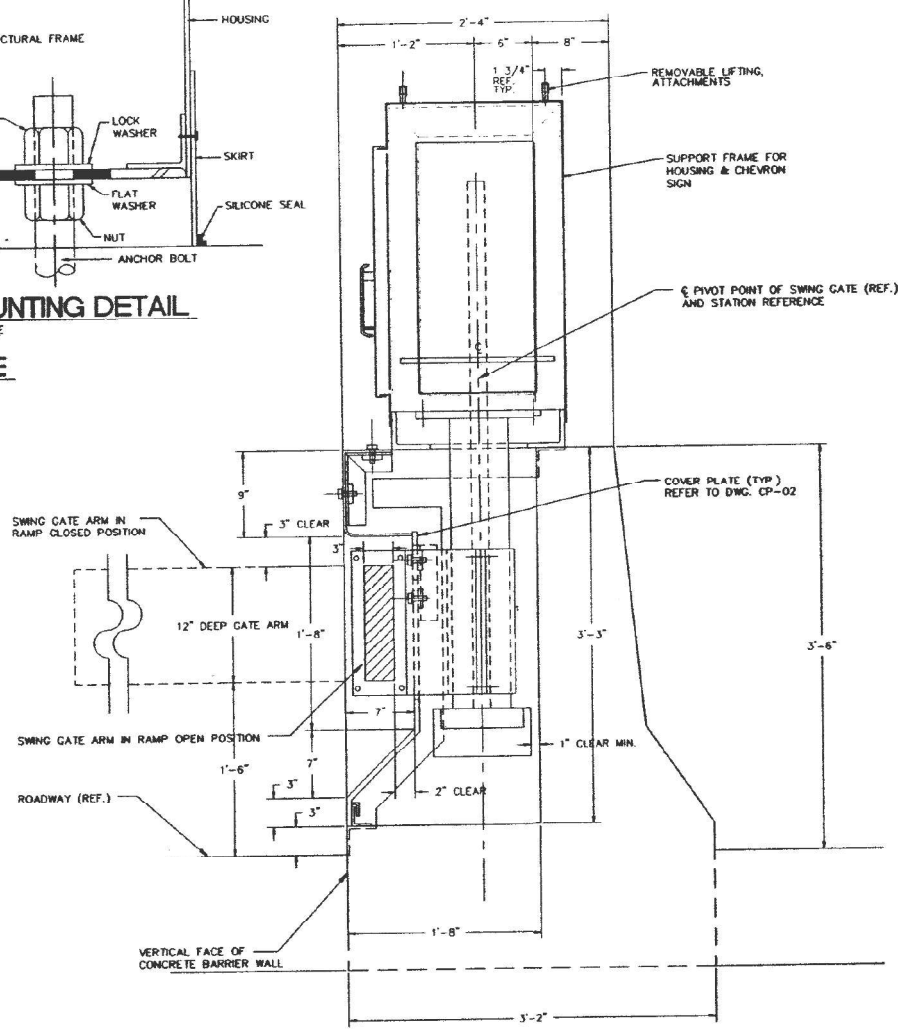
**NOTES:**

1. THE SWING GATE VENDOR SHALL SUPPLY THE SWING GATE UNITS AS DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - MATERIAL ONLY. MAJOR COMPONENTS INCLUDE GATE ACTUATOR TRANSMISSION & CRANK ARM ASSEMBLY, GATE ARM CAPSTAN & MOUNTING BRACKET, SUPPORT FRAME, HOUSING, GATE ARM, DRIVE MOTOR, AND CONTROLS.
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**GATE ARM LENGTH SCHEDULE**

GATE ARM LENGTH	CONC. BARR. WLL. OVERALL LENGTH 'A'	GATE ARM INTERNAL LENGTH 'B'	GATE ARM NET SECT.
6	29'-0"	5'-6"	9'-0"
9	32'-0"	8'-6"	12'-0"
10	33'-0"	9'-6"	13'-0"
11	34'-0"	10'-6"	14'-0"
12	35'-0"	11'-6"	15'-0"
13	36'-0"	12'-6"	16'-0"
14	37'-0"	13'-6"	17'-0"
15	38'-0"	14'-6"	18'-0"
16	39'-0"	15'-6"	19'-0"
17	40'-0"	16'-6"	20'-0"
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22	45'-0"	21'-6"	25'-0"
23	46'-0"	22'-6"	26'-0"
24	47'-0"	23'-6"	27'-0"
25	48'-0"	24'-6"	28'-0"
26	49'-0"	25'-6"	29'-0"
27	50'-0"	26'-6"	30'-0"



<b>SG-08</b>	
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.I. ROUTE 90/94 RECONSTRUCTION PROJECT
<b>REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM</b>	
<b>ONTARIO TO EDENS JUNCTION</b>	
<b>SWING GATE - INSTALLATION TYPE 'E-1' BARRIER WALL DOUBLE FACED BARRIER 42\"/&gt; </b>	
DATE: 02/19/93 ISSUED FOR REVLAC BID	DATE: 01/15/93 REVLAC PRELIMINARY REVIEW
DATE: 10/09/92 REVLAC PRELIMINARY REVIEW	DATE: 07/03/92 GENERAL REVISIONS REVLAC
DATE: 05/15/91 PRE-FINAL REVIEW	DATE: 10/16/90 PRELIMINARY BARRIER SUBMITTAL
DATE: 03/29/91	DATE: 03/29/91

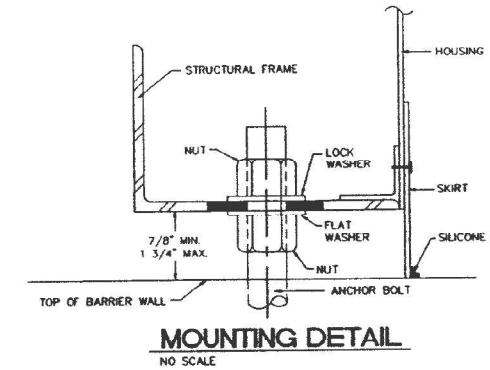
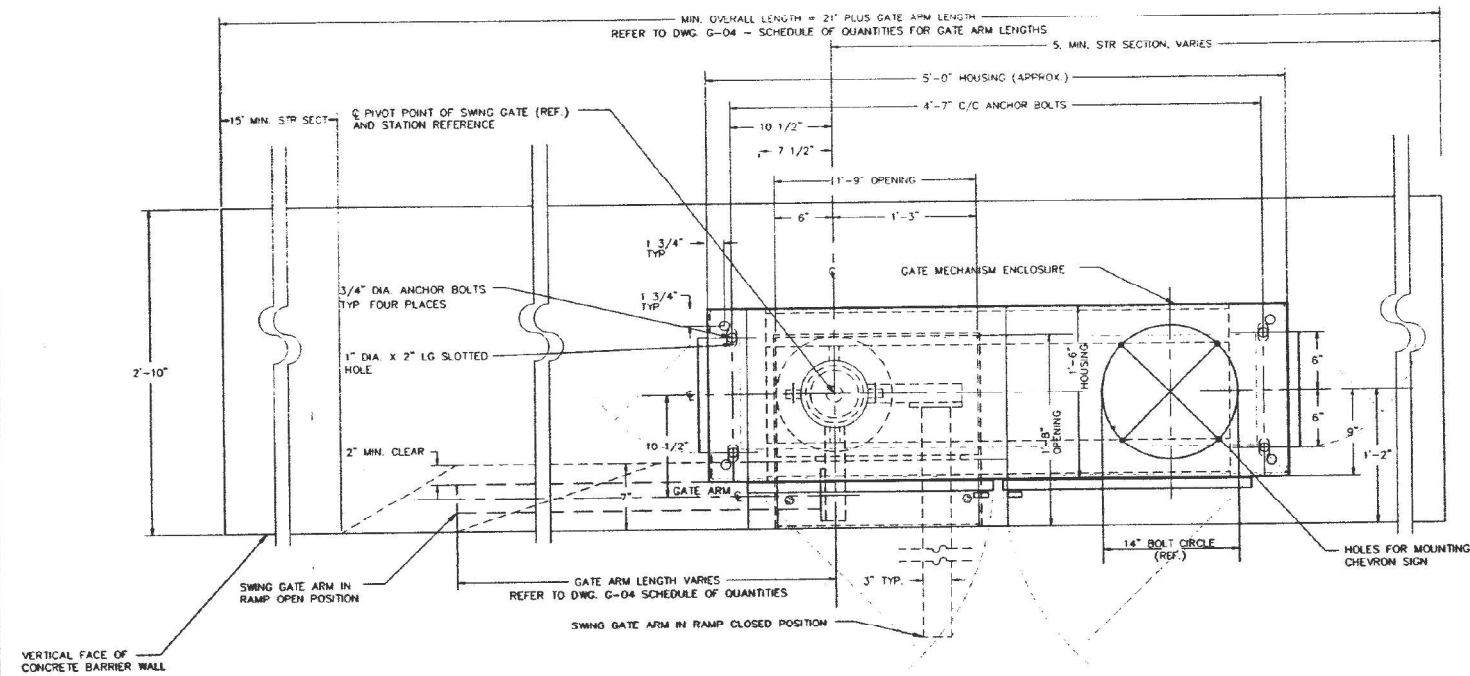
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 DATE - 1/27/2022  
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 PLOT DATE = 3/22/2022

DATE	REVISED	BY	REASON
90/94		COOK	333 45

**NOTES :**

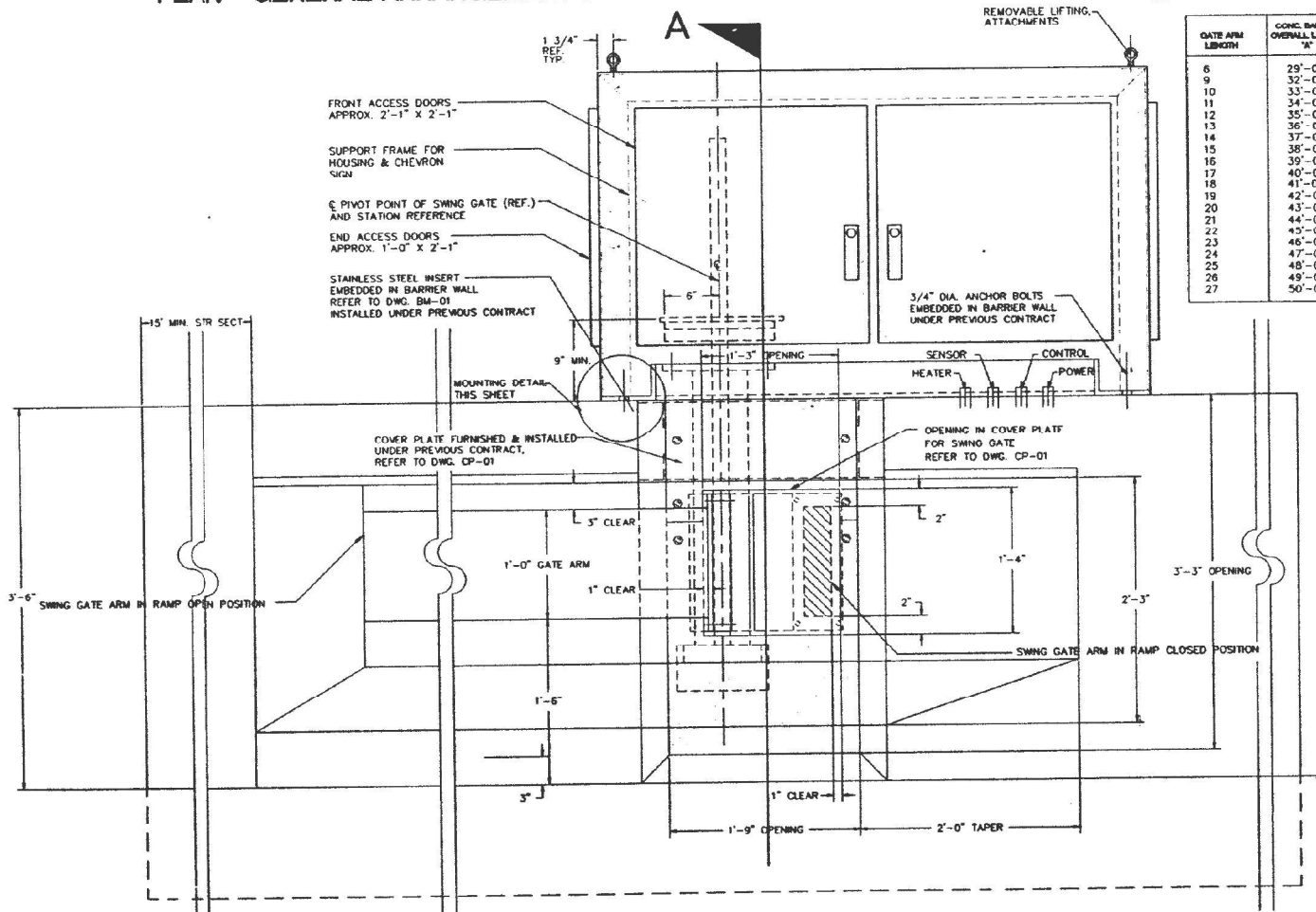
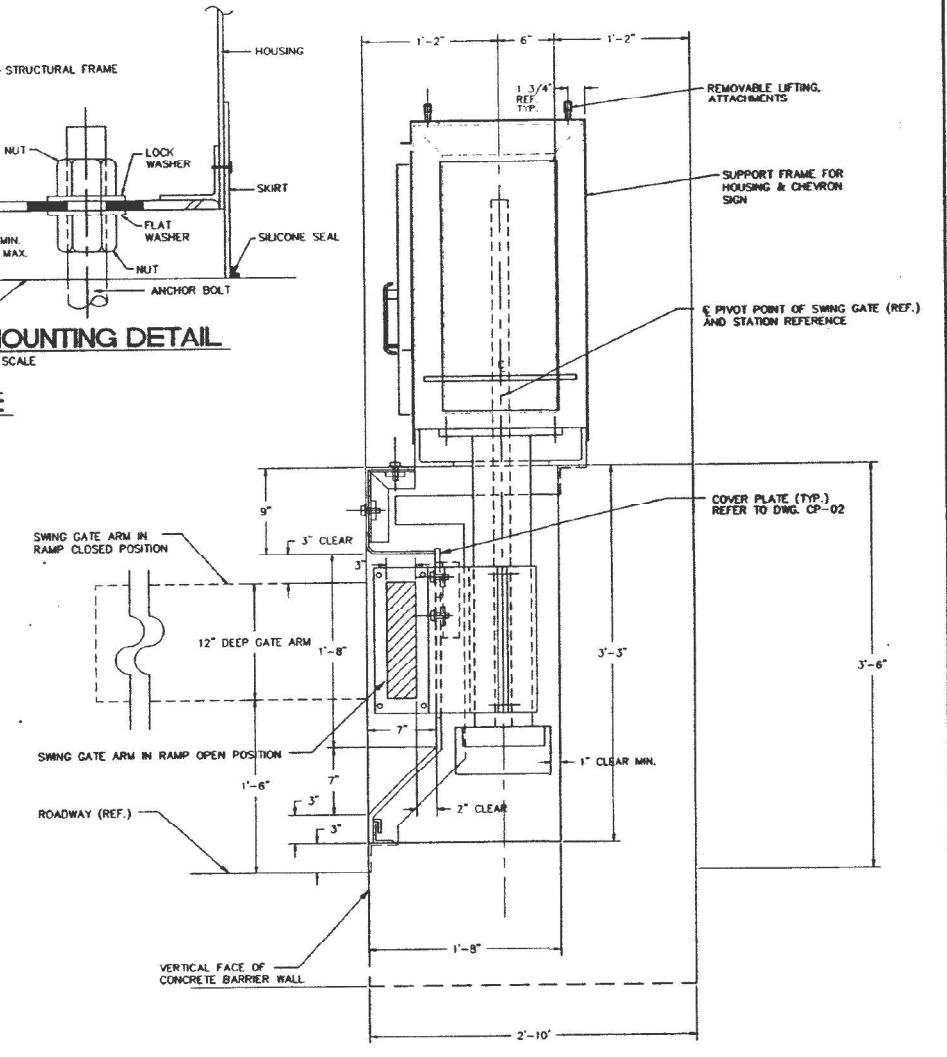
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2. THE CONTRACTOR SHALL INSTALL EACH UNIT LEVEL, PLUMB, AND TRUE AND AS ADDITIONALLY DESCRIBED IN THE SPECIFICATIONS FOR SWING GATE - INSTALLATION ONLY. REFER ALSO TO DRAWINGS G-7 & G-8.
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**PLAN - GENERAL ARRANGEMENT SWING GATE TYPE 'E-2' MOUNTING**

**GATE ARM LENGTH SCHEDULE**

GATE ARM LENGTH	CONC. SHL. OVL. OVERALL LENGTH	GATE ARM RECESS LENGTH	GATE ARM STR. SECT.
6	29'-0"	5'-6"	9'-0"
9	32'-0"	8'-6"	12'-0"
10	33'-0"	9'-6"	13'-0"
11	34'-0"	10'-6"	14'-0"
12	35'-0"	11'-6"	15'-0"
13	36'-0"	12'-6"	16'-0"
14	37'-0"	13'-6"	17'-0"
15	38'-0"	14'-6"	18'-0"
16	39'-0"	15'-6"	19'-0"
17	40'-0"	16'-6"	20'-0"
18	41'-0"	17'-6"	21'-0"
19	42'-0"	18'-6"	22'-0"
20	43'-0"	19'-6"	23'-0"
21	44'-0"	20'-6"	24'-0"
22	45'-0"	21'-6"	25'-0"
23	46'-0"	22'-6"	26'-0"
24	47'-0"	23'-6"	27'-0"
25	48'-0"	24'-6"	28'-0"
26	49'-0"	25'-6"	29'-0"
27	50'-0"	26'-6"	30'-0"



**ELEVATION**

**SECTION 'A'**

NO.	DATE	REVISION	BY
02/19/93		ISSUED FOR REVLAC BID	
07/15/93		REVLAC PREFINAL REVIEW	
10/09/92		REVLAC PREFINAL	
01/03/92		GENERAL REVISIONS REVLAC	
05/15/91		PRE-FINAL REVIEW	
10/18/90		PRELIMINARY BARRIER SUBMITTAL	

**SG-09**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE

KENNEDY EXPRESSWAY  
F.A.L. ROUTE 90/94  
RECONSTRUCTION PROJECT

REVERSIBLE LANES TRAFFIC REDIRECTION  
AND ACCESS CONTROL SYSTEM

ONTARIO TO EDENS JUNCTION

SWING GATE - INSTALLATION  
TYPE "E-2" BARRIER WALL  
SINGLE FACED BARRIER 42" HIGH

Author: E. Knight & Associates, Inc.  
Engineers - Planners

Scale: NONE

Project No. 4482

Date: 03/29/91

FOR INFORMATION ONLY

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**KNIGHT**  
Engineers & Architects

FILE NAME = D180748-sh-TG-19.dgn	USER NAME = korabmp	DESIGNED - MB	REVISED -
		DRAWN - MB	REVISED -
		CHECKED - CS	REVISED -
		DATE - 1/27/2022	REVISED -

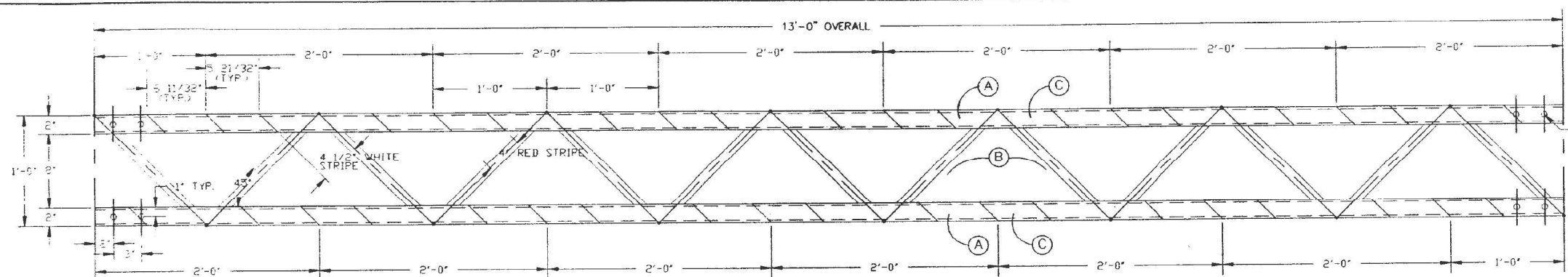
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATES AND BARRIERS			
SCALE: NTS	SHEET 19 OF 25 SHEETS	STA. N/A	TO STA. N/A

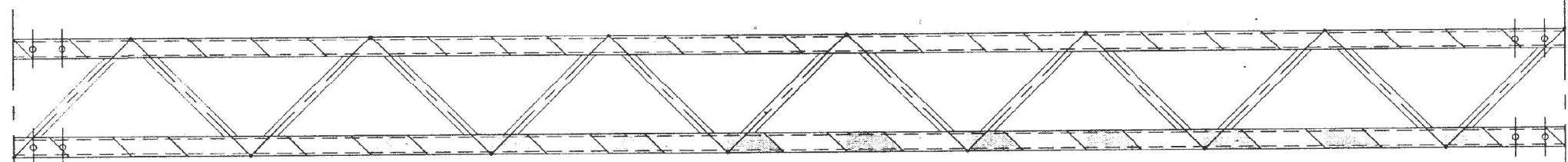
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
90/94	2012-0081	COOK	288
			SHEET NO. 150
			CONTRACT NO. 60T46
ILLINOIS FED. AID PROJECT			

TG-19

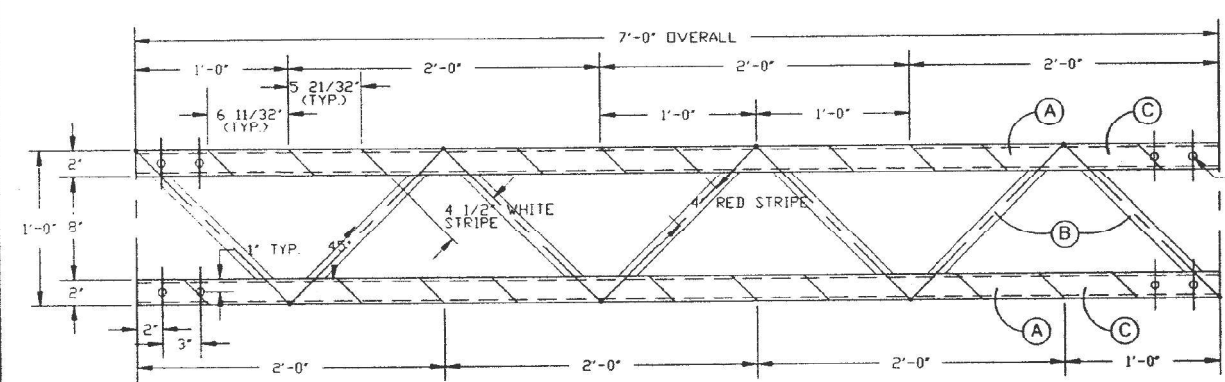
DATE	DESIGN	DRAWN	SHEET NO.
9/0/94	COOK	333	46
PROJECT	NO.		
1991 - 002 I			



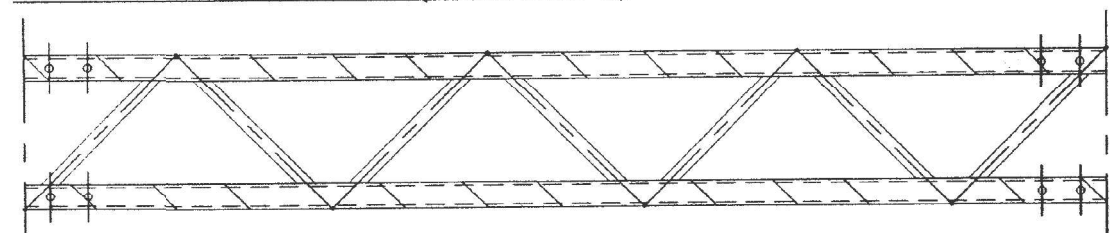
TRUSS SEGMENT - T13 (FRONT SIDE)



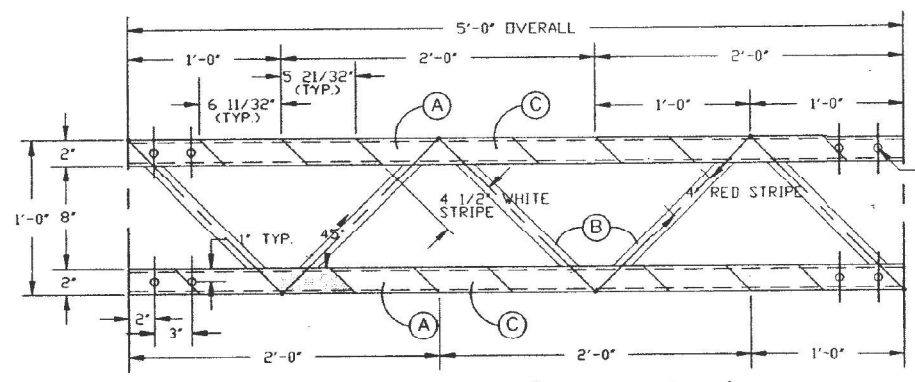
TRUSS SEGMENT - T13 (BACK SIDE)



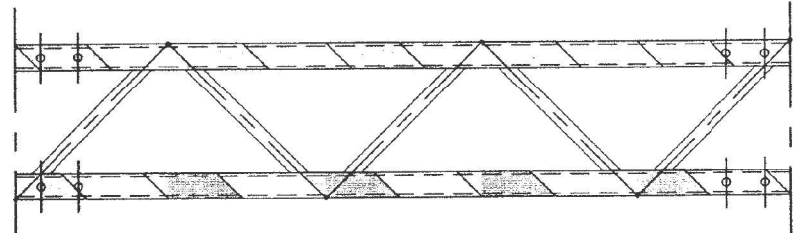
TRUSS SEGMENT - T7 (FRONT SIDE)



TRUSS SEGMENT - T7 (BACK SIDE)



TRUSS SEGMENT - T5 (FRONT SIDE)



TRUSS SEGMENT - T5 (BACK SIDE)

**NOTES**

1. SWING GATE ARMS AND TRUSS SEGMENTS, FLEXIBLE GATE TIPS, AND CONNECTORS FOR GATE TIPS, GATE ARMS, AND GATE TRUSSES ARE FURNISHED BY THE SWING GATE VENDOR AND SHALL BE INSTALLED BY THE CONTRACTOR.
2. ALL DIMENSIONS AND DETAILS ARE ONLY FOR THE PRESENTATION OF FUNCTIONAL CONCEPTS. THE CONTRACTOR AND VENDOR SHALL BE RESPONSIBLE FOR ALL LAYOUTS AND THE COORDINATION OF WORK.
3. THE CONTRACTOR SHALL VERIFY ALL APPLICABLE BARRIER WALL DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
4. REFER TO DRAWING GT-03 FOR BILL OF MATERIAL.

NO.	DATE	REVISION	BY
02/19/93		ISSUED FOR REV/LAC R/D	
01/15/93		REV/LAC PRELIMINARY REVIEW	
10/09/92		REV/LAC PRELIMINARY	

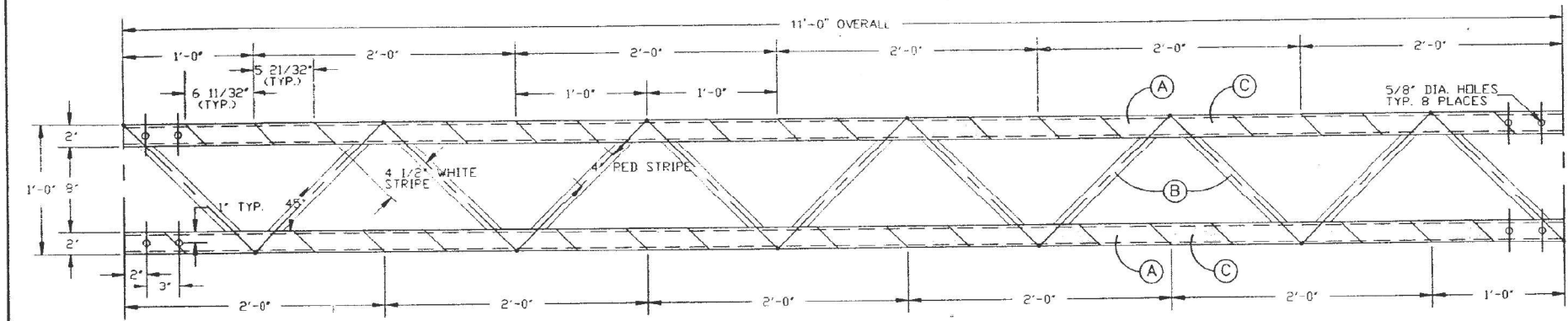
DRAWING NUMBER <b>GT-01</b>	
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.L. ROUTE 90/94 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
ONTARIO TO EDENS JUNCTION	
SWING GATE ARMS TYPICAL TRUSS SEGMENTS T5, T7, T13	
Lester B. Knight & Associates, Inc. Architects - Engineers - Planners 300 West Jackson Street, Chicago, Illinois 60601 312-440-0000	SCALE: NONE PROJECT NO. 4482 DATE: 12/23/91

FOR INFORMATION ONLY

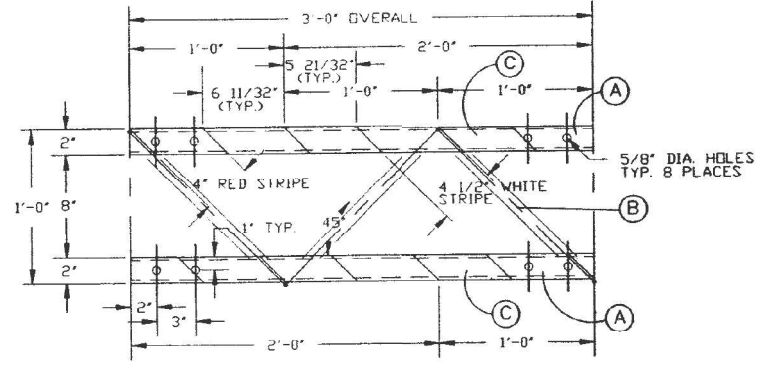
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TG-20

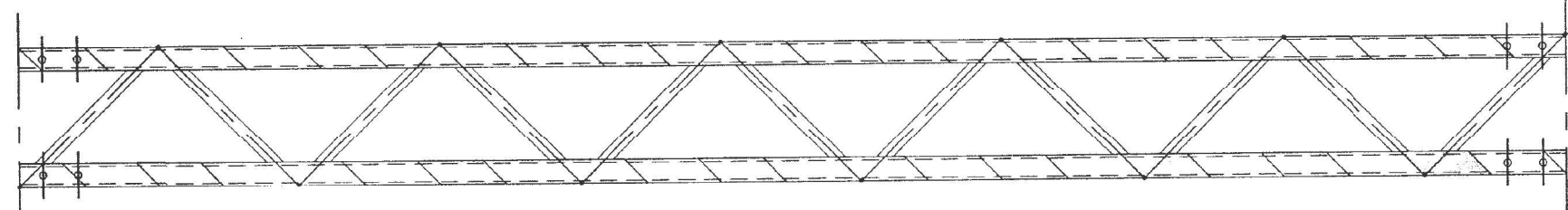
PLAN NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	333	47
REV. ROAD DIST. NO.	MAPS	PROJECT		
			* 1991 - 002 I	



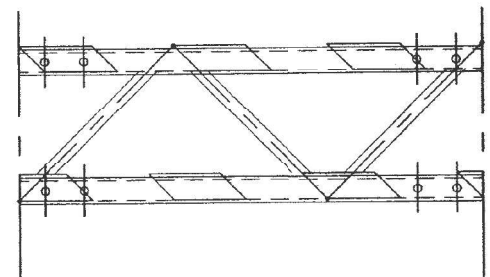
TRUSS SEGMENT - T11 (FRONT SIDE)



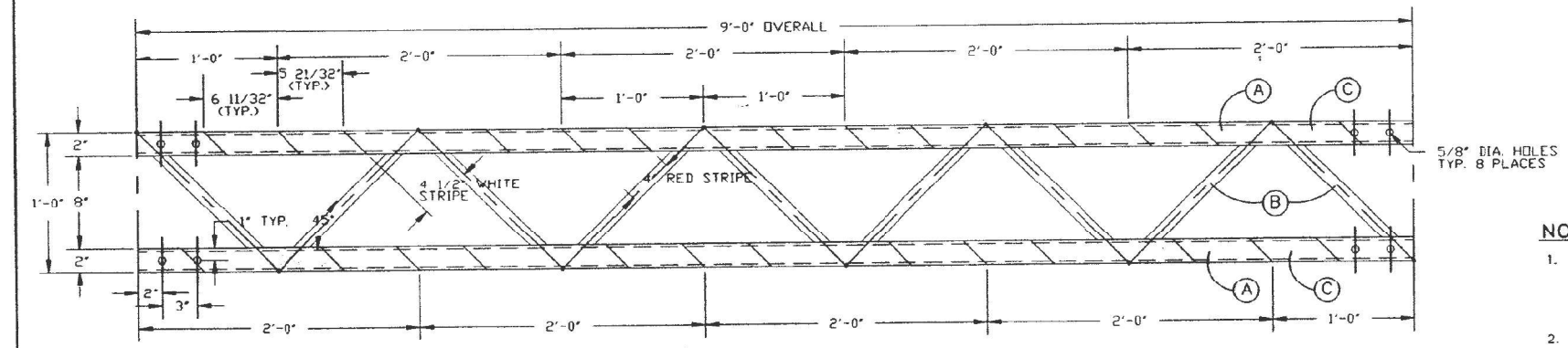
TRUSS SEGMENT - T3 (FRONT SIDE)



TRUSS SEGMENT - T11 (BACK SIDE)



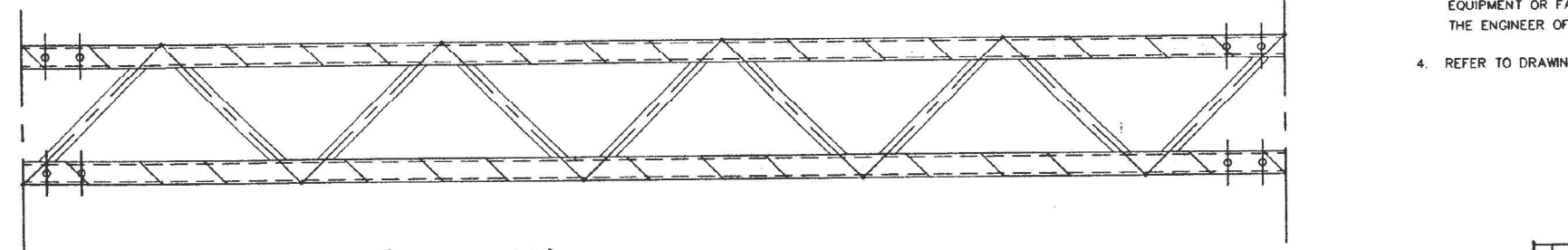
TRUSS SEGMENT - T3 (BACK SIDE)



TRUSS SEGMENT - T9 (FRONT SIDE)

**NOTES**

1. SWING GATE ARMS AND TRUSS SEGMENTS, FLEXIBLE GATE TIPS, AND CONNECTORS FOR GATE TIPS, GATE ARMS, AND GATE TRUSSES ARE FURNISHED BY THE SWING GATE VENDOR AND SHALL BE INSTALLED BY THE CONTRACTOR.
2. ALL DIMENSIONS AND DETAILS ARE ONLY FOR THE PRESENTATION OF FUNCTIONAL CONCEPTS. THE CONTRACTOR AND VENDOR SHALL BE RESPONSIBLE FOR ALL LAYOUTS AND THE COORDINATION OF WORK.
3. THE CONTRACTOR SHALL VERIFY ALL APPLICABLE BARRIER WALL DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
4. REFER TO DRAWING GT-03 FOR BILL OF MATERIAL.



TRUSS SEGMENT - T9 (BACK SIDE)

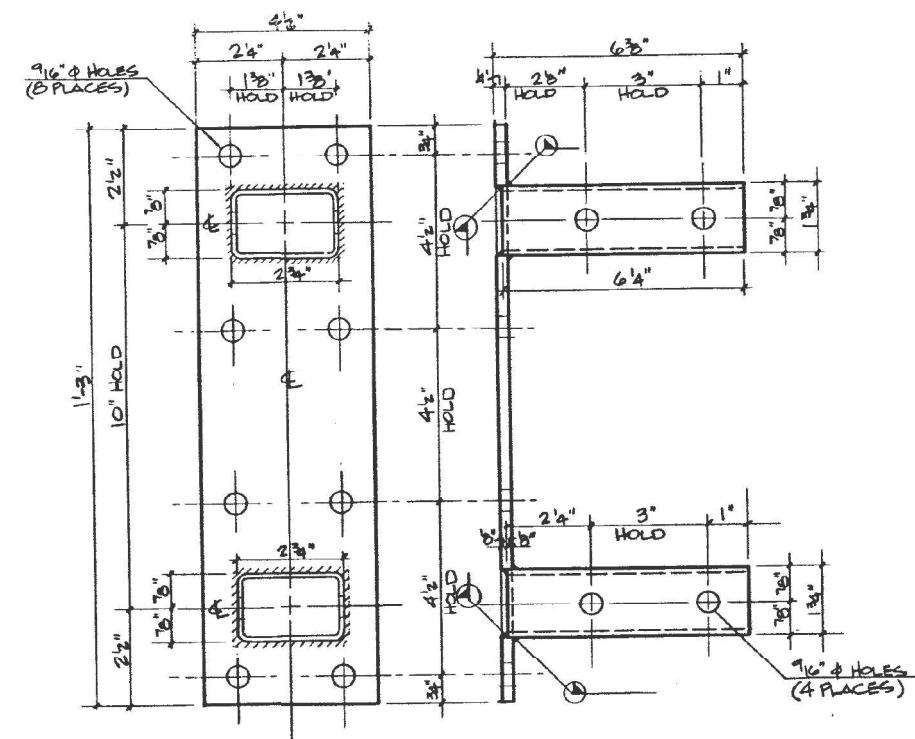
DRAWING NUMBER		GT-02	
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE		KENNEDY EXPRESSWAY F.A.I. ROUTE 90/94 RECONSTRUCTION PROJECT	
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM			
ONTARIO TO EDENS JUNCTION			
SWING GATE ARMS TYPICAL TRUSS SEGMENTS T3, T9, T11			
DATE	ISSUED FOR REV/LAC BY	SCALE	NONE
02/19/93	ISSUED FOR REV/LAC BY	PROJECT NO.	4482
01/15/93	REV/LAC PRELIMINARY REVIEW	DATE	12/23/91
10/09/92	REV/LAC PRELIMINARY	BY	ENIGHT

NO.	DATE	REVISION	BY

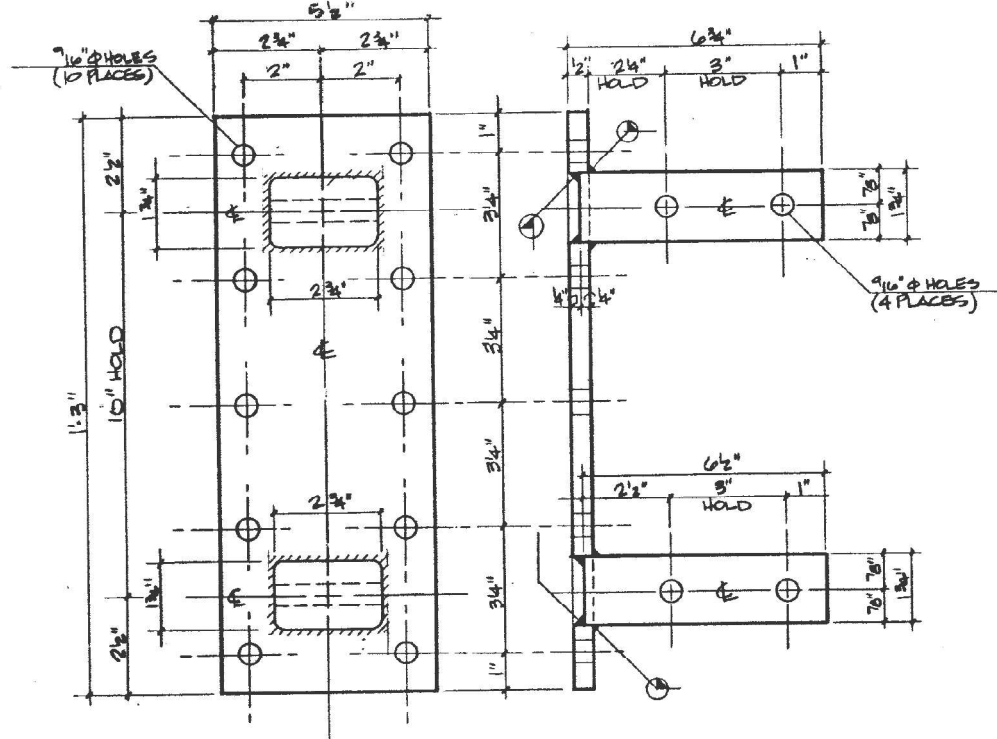
FOR INFORMATION ONLY

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DATE	BY	CHECKED	SCALE
7/94	*	COOK	333 48
PROJECT		PROJECT	
1001-0021			

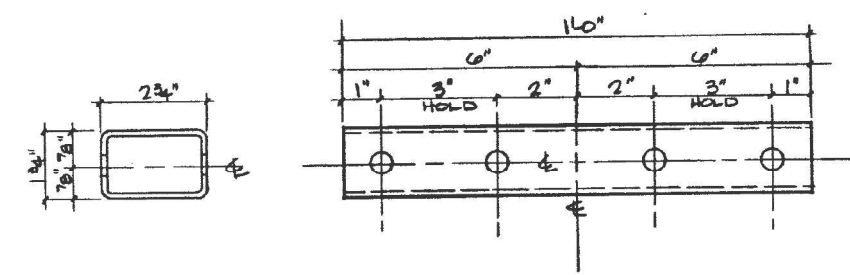


**GATE TIP CONNECTOR**



**GATE ARM CONNECTOR**

- NOTES:**
1. THE SWING GATE VENDOR IS TO SUPPLY THE CONNECTORS (FOR THE GATE TIP, GATE ARM, AND GATE TRUSS) FABRICATED ENTIRELY OF 6061-T6 ALUMINUM.
  2. THE CONTRACTOR SHALL COORDINATE WITH THE SWING GATE VENDOR AND INSTALL THE CONNECTORS IN ACCORDANCE WITH THE SWING GATE VENDOR'S INSTALLATION INSTRUCTIONS.
  3. PRIOR TO INSTALLATION, THE ENGINEER SHALL BE INFORMED BY THE CONTRACTOR OF ANY CONDITIONS BEYOND HIS CONTROL THAT WOULD PREVENT A PROPER FIT-UP OF SWING GATE ARMS, SWING GATE TRUSSES, SWING GATE TIPS, AND CONNECTORS.



**GATE TRUSS CONNECTOR**

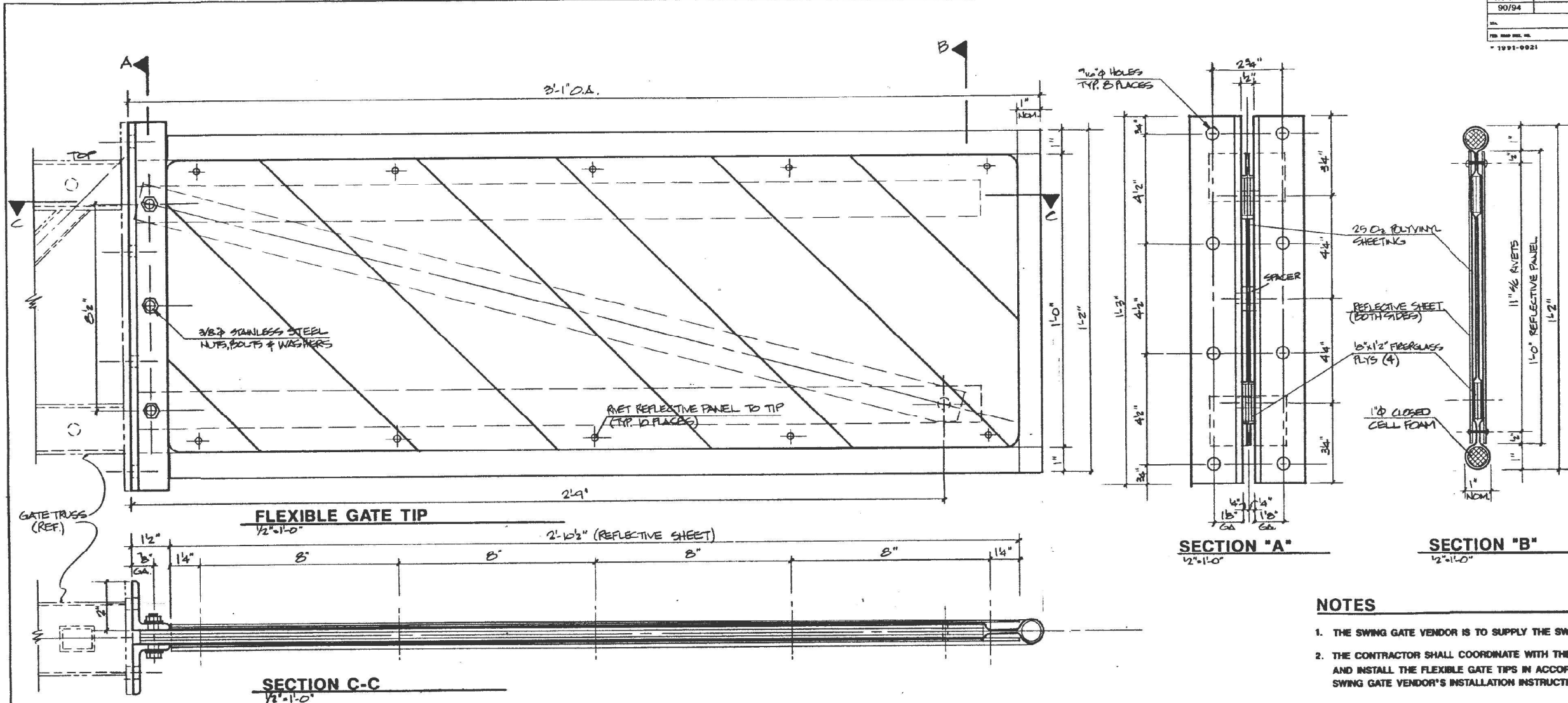
MATERIAL FOR GATE ARM TRUSS SEGMENTS (GT-01+02)			
ITEM	DESCRIPTION	LENGTH	QTY
A	TUBE 3 x 2 x 1/8"	(LENGTH AS SHOWN)	2
B	TUBE 1 x 1 x 1/8"	1'-0" LONG	AS SHOWN
C	REFLECTIVE SHEET	(LENGTH AS SHOWN)	4

GT-03	
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.I. ROUTE 90/94 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
ONTARIO ST. TO EDENS JUNCTION	
<b>GATE ARM TRUSS DETAILS</b>	
ISSUED FOR REVLAC BID 10/29/22 REVLAC PRE-FINAL	SCALE 1/2" = 1'-0" PROJECT NO. 4402 DATE 2-21-22
Lester B. Knight & Associates, Inc. Architects - Engineers - Planners 300 East Empire Road, Suite 200, Naperville, IL 60563 TEL: 630-251-4000	DESIGNED BY MKK CHECKED BY APPROVED BY

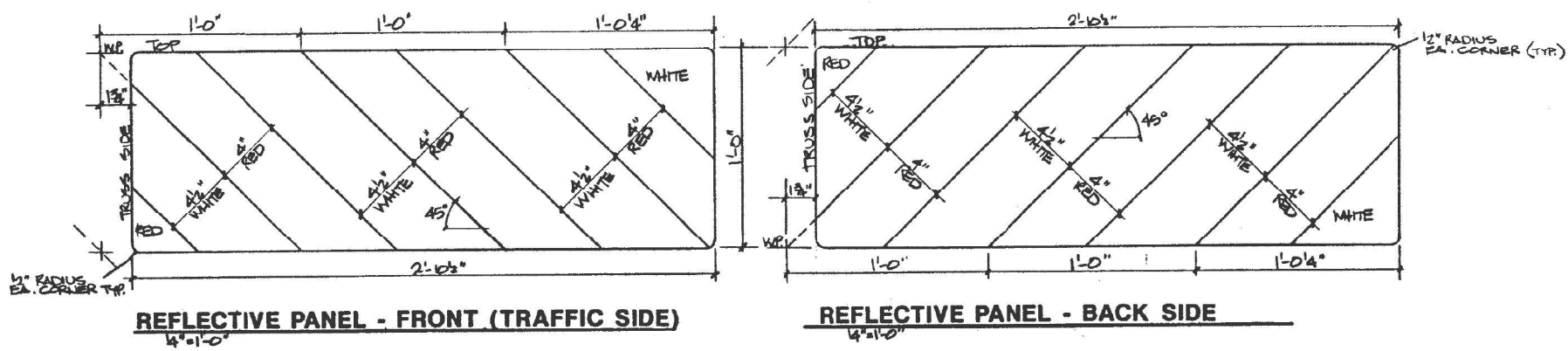
FOR INFORMATION ONLY

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DATE	9/07/94	BY	COOK	NO.	333	REV.	1
TITLE	FLEXIBLE GATE TIP						
PROJECT NO.	1991-0021						



- NOTES**
1. THE SWING GATE VENDOR IS TO SUPPLY THE SWING GATE FLEXIBLE TIPS.
  2. THE CONTRACTOR SHALL COORDINATE WITH THE SWING GATE VENDOR AND INSTALL THE FLEXIBLE GATE TIPS IN ACCORDANCE WITH THE SWING GATE VENDOR'S INSTALLATION INSTRUCTIONS.



<b>GT-04</b>	
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.I. ROUTE 50/54 RECONSTRUCTION PROJECT
REVERSIBLE LANES TRAFFIC REDIRECTION AND ACCESS CONTROL SYSTEM	
ONTARIO TO EDENS JUNCTION	
<b>FLEXIBLE GATE TIP - DETAILS</b>	
ISSUED FOR REV'AC BID 18/09/92 REV'AC PRE-FINAL	SCALE AS NOTED FIGURE NO. 4462 DATE 2-17-92

NO.	DATE	REVISION	BY

FOR INFORMATION ONLY

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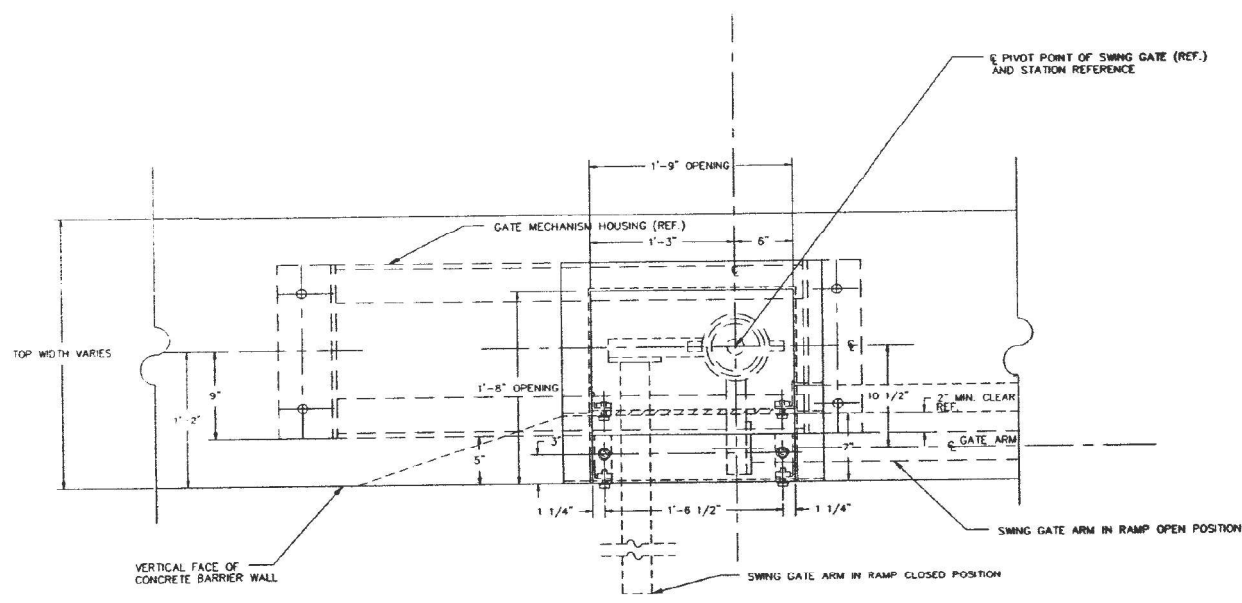


ROUTE NO	SECTION	COUNTY	SHEET NO
90/94	8	COOK	333 50
STA	TO STA		
FED ROAD DIST NO	NUMBER	PROJECT	

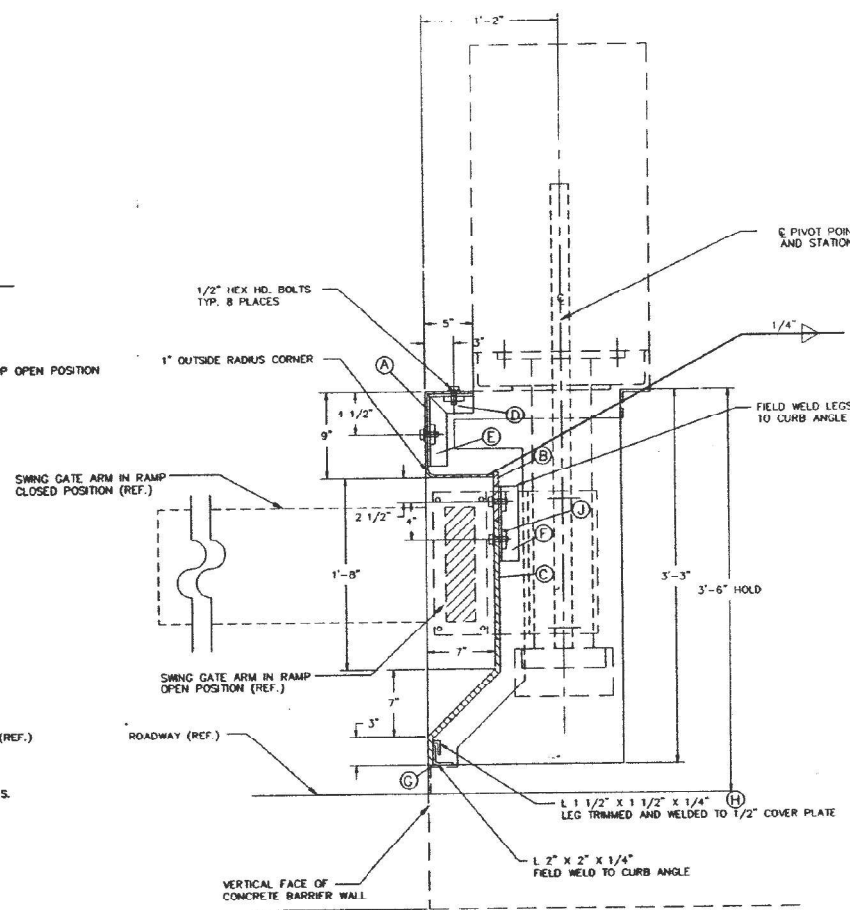
\* 1991 - 002 I

**NOTES:**

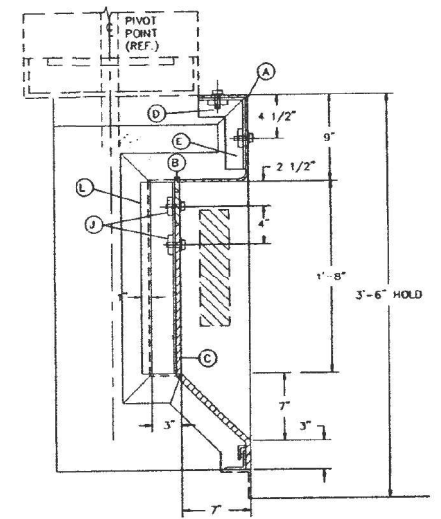
1. THE COVER PLATES ARE TO BE INITIALLY INSTALLED UNDER SEPARATE CONTRACTS.
2. THE CONTRACTOR SHALL REMOVE AND STORE THE COVER PLATES AND ASSOCIATED FASTENERS AND REINSTALL THE COVER PLATES AFTER INSTALLING THE SWING GATES.
3. THE CONTRACTOR SHALL VERIFY ALL APPLICABLE BARRIER WALL DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



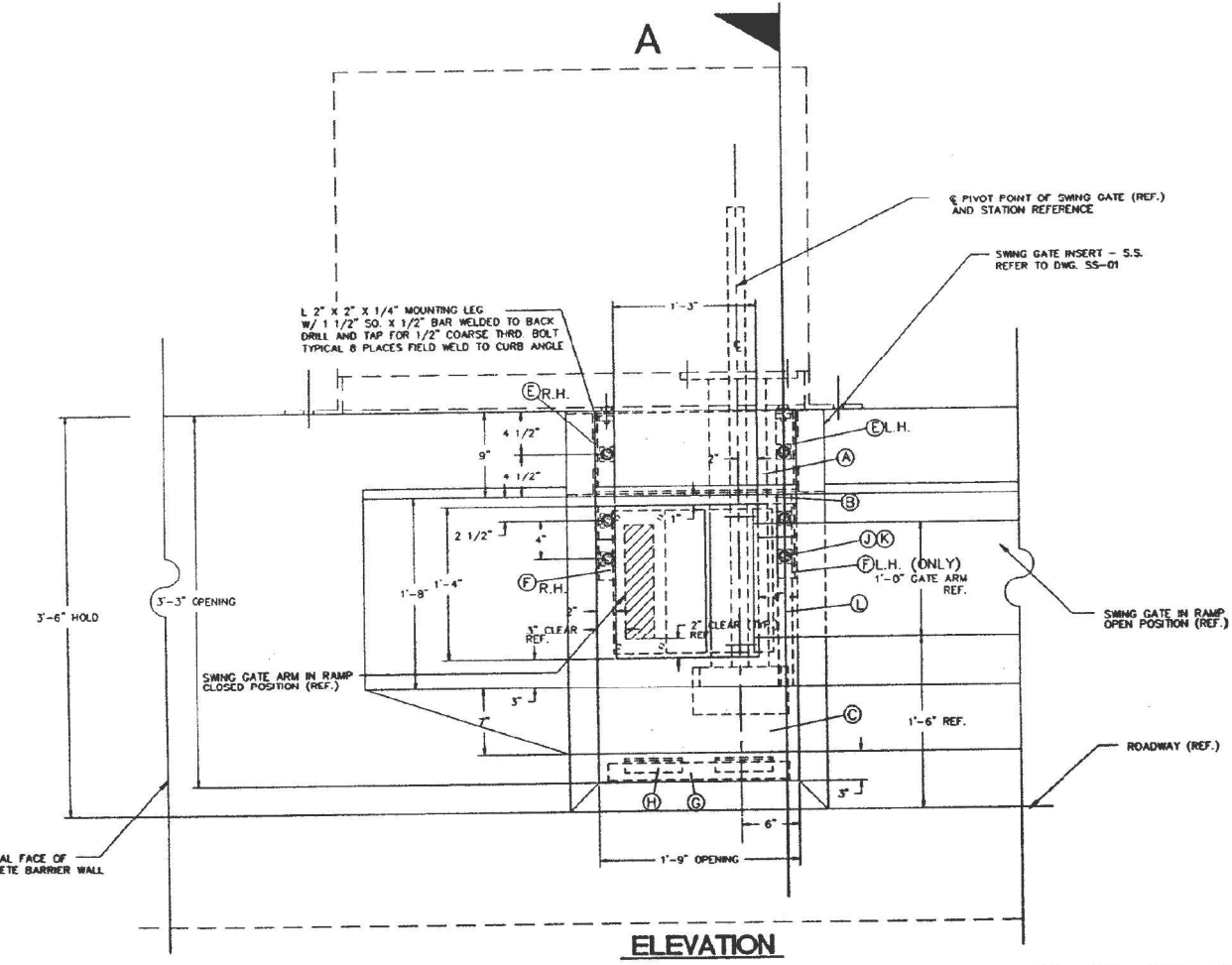
**PLAN - COVER PLATE, GENERAL ARRANGEMENT FOR SWING GATES**



**SECTION 'A'**



**SECTION 'B'**



**ELEVATION**

**BILL OF MATERIALS**

ITEM	MATERIAL	QTY.	SIZE	NOTES
A	1/4" PLATE - S.S.	1	1'-9" X 1'-9 1/2"	BEND CUT
B	1/2" PLATE - S.S.	1	1'-9" X 5"	BEND & CUT
C	1/2" PLATE - S.S.	1	1'-9" X 2'-5"	BEND & CUT
D	L2 X 2 X 1/4" S.S.	2	5" LONG R.H. & L.H.	
E	L2 X 2 X 1/4" S.S.	2	8" LONG R.H. & L.H.	
F	L2 X 2 X 1/4" S.S.	1	6" LONG RH ONLY	
G	L2 X 2 X 1/4" S.S.	1	1'-6" LONG	
H	L1 1/2 X 1 1/2 X 1/4"	2	6" LONG	TRIM LEG
J	BAR 1/2" X 1 1/2 X 1 1/2	8	1 1/2" LONG	
K	1/2" NUT, BOLT & WASHER	8	1'-8" LONG LH ONLY	
L	L2 X 3 1/2 X 1/4" S.S.	1		

**CP-01**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE

KENNEDY EXPRESSWAY  
F.A.J. ROUTE 90/94  
RECONSTRUCTION PROJECT

REVERSIBLE LANES TRAFFIC REDIRECTION  
AND ACCESS CONTROL SYSTEM

ONTARIO TO EDENS JUNCTION

COVER PLATE - S.S.  
FOR SWING GATE INSERT IN BARRIER WALL SPECIAL  
R.H. (C.W. GATE ROTATION)

DATE	REVISION	BY
02/10/93	ISSUED FOR REV. AC BID	
01/15/93	REV. AC PRELIMINARY REVIEW	
11/13/92	NWB REVIEW	
10/05/92	REV. AC PRELIMINARY REVIEW	
07/03/92	GENERAL REVISIONS	
05/01/91	RELEASE FOR REV. CON. BID	
05/15/91	PRE-FINAL REVIEW	
10/16/90	PRELIMINARY BARRIER SUBMITTAL	

Logo: Lester B. Knight & Associates, Inc. Architects - Engineers - Planners  
400 West North Dearborn Street, Suite 2000, Chicago, Illinois 60610-3400  
PHONE NO. 4482  
DATE 03/29/91

FOR INFORMATION ONLY

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**KNIGHT**  
Engineers & Architects

FILE NAME = D180746-sh-TG-24.dgn	USER NAME = korabmp	DESIGNED - MB	REVISED -
		DRAWN - MB	REVISED -
		CHECKED - CS	REVISED -
		DATE - 1/27/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATES AND BARRIERS

SCALE: NTS	SHEET 24 OF 25 SHEETS	STA. N/A	TO STA. N/A
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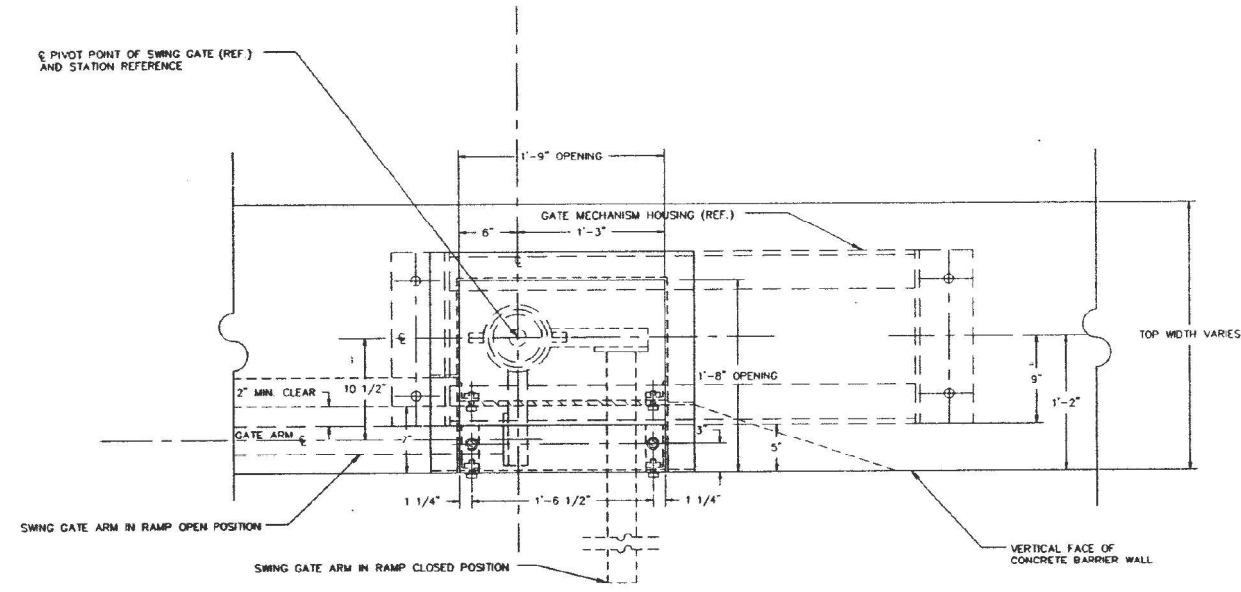
F.A.I. R/YE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	288	155
CONTRACT NO. 60T46			ILLINOIS FED. AID PROJECT	

TG-24

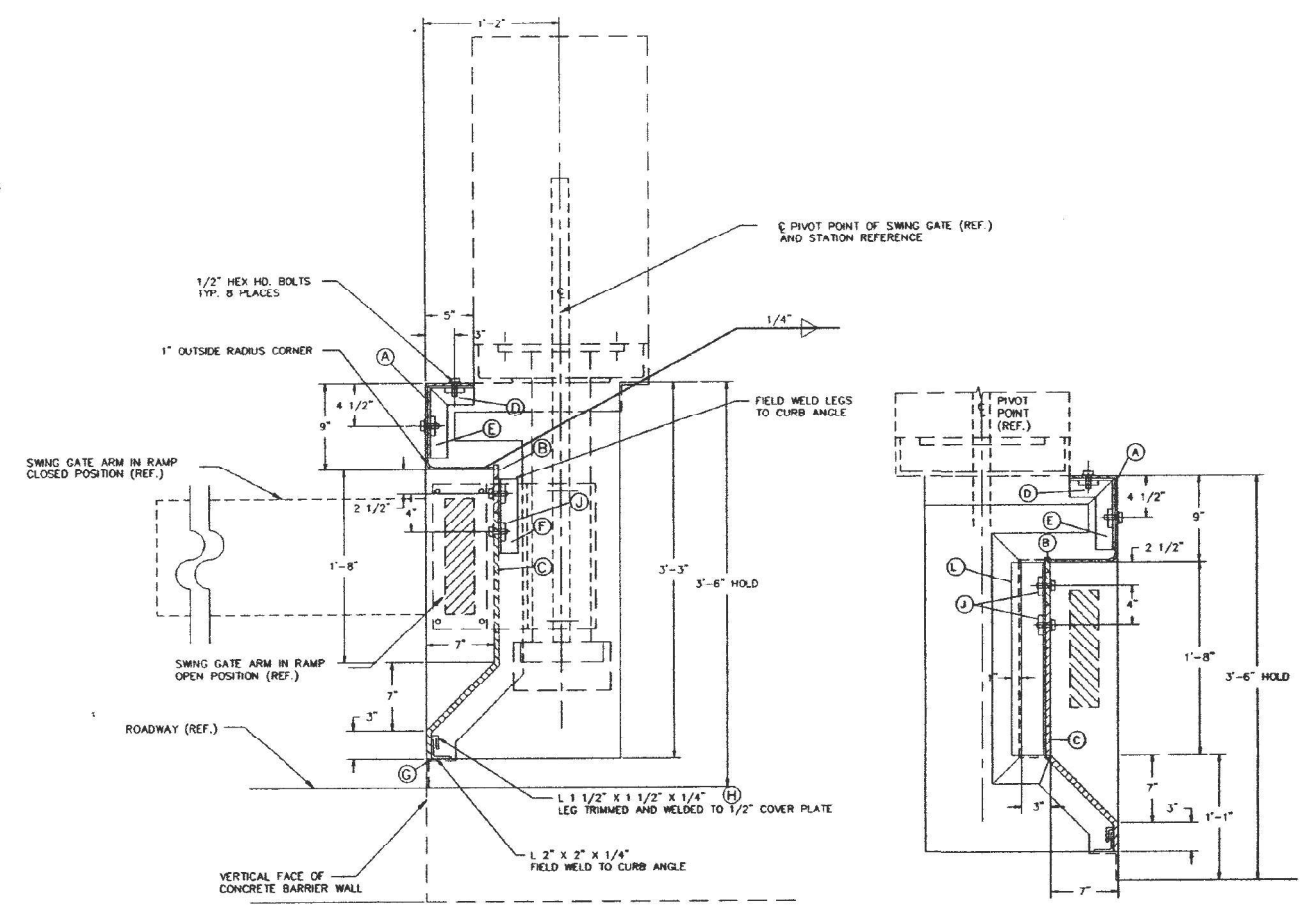
DATE	REVISED	COUNTY	SHEET
9/0/94		COOK	333 51
SHEET		PROJECT	
4 1991 - 002 I			

**NOTES:**

1. THE COVER PLATES ARE TO BE INITIALLY INSTALLED UNDER SEPARATE CONTRACTS.
2. THE CONTRACTOR SHALL REMOVE AND STORE THE COVER PLATES AND ASSOCIATED FASTENERS AND REINSTALL THE COVER PLATES AFTER INSTALLING THE SWING GATES.
3. THE CONTRACTOR SHALL VERIFY ALL APPLICABLE BARRIER WALL DIMENSIONS BEFORE INSTALLING ANY EQUIPMENT OR FABRICATING ANY COMPONENTS OR STRUCTURES. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



**PLAN - COVER PLATE, GENERAL ARRANGEMENT FOR SWING GATES**

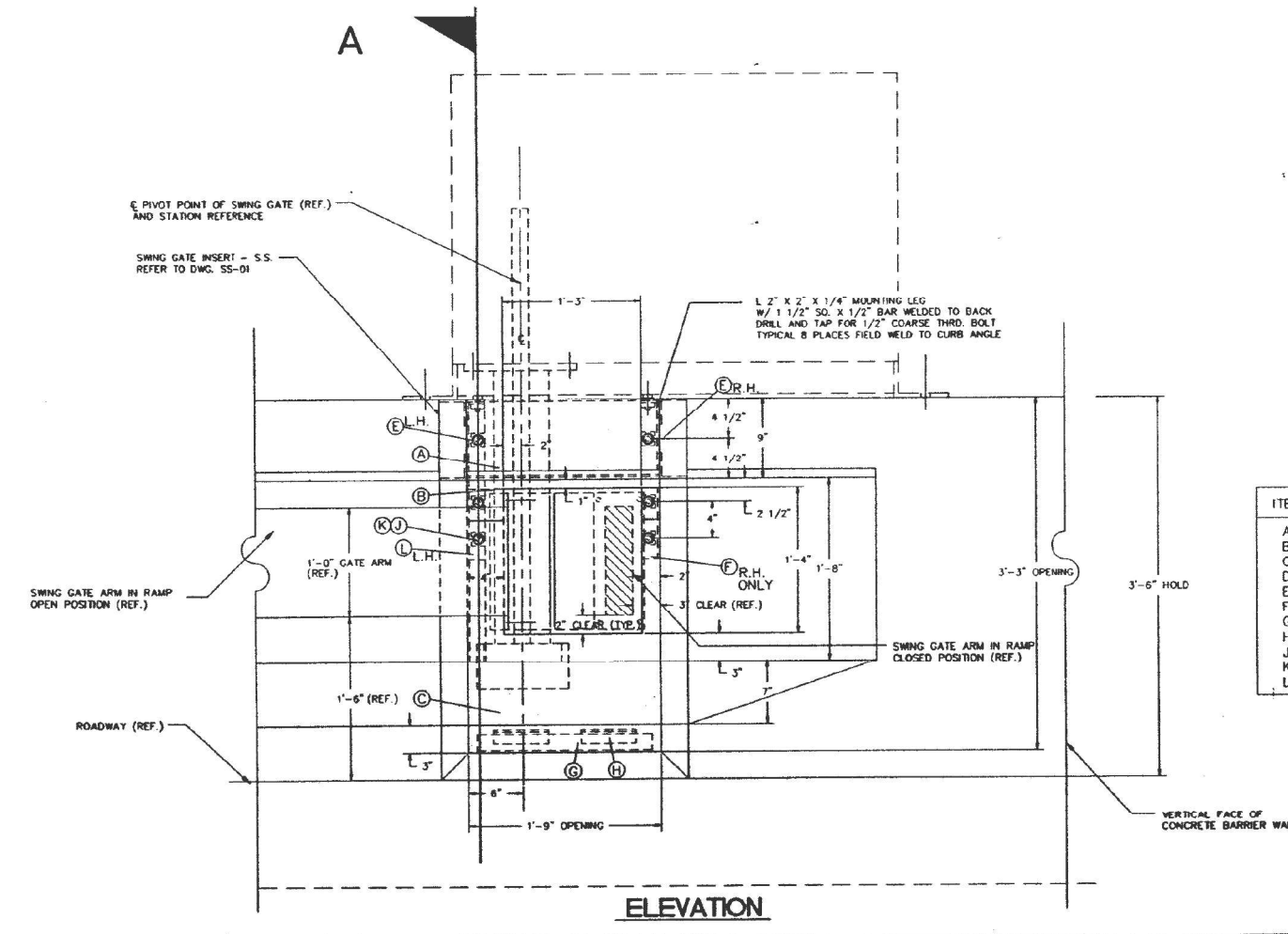


**SECTION 'A'**

**SECTION 'B'**

**BILL OF MATERIALS**

ITEM	MATERIAL	QTY.	SIZE	NOTES
A	1/4" PLATE - S.S.	1	1'-9" x 1'-9 1/2"	BEND
B	1/2" PLATE - S.S.	1	1'-9" x 5"	CUT
C	1/2" PLATE - S.S.	1	1'-9" x 2'-5"	BEND & CUT
D	L2 X 2 X 1/4" S.S.	2	5" LONG R.H. & L.H.	
E	L2 X 2 X 1/4" S.S.	2	8" LONG R.H. & L.H.	
F	L2 X 2 X 1/4" S.S.	1	6" LONG RH ONLY	
G	L2 X 2 X 1/4" S.S.	1	1'-6" LONG	
H	L1 1/2 X 1 1/2 X 1/4"	2	6" LONG	TRIM LEG
J	BAR 1/2" X 1 1/2 X 1 1/2	8		
K	1/2" NUT, BOLT & WASHER	8	1 1/2" LONG	
L	L2 X 3 1/2 X 1/4" S.S.	1	1'-8" LONG LH ONLY	



**ELEVATION**

**CP-02**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE

**KENNEDY EXPRESSWAY  
F.A.I. ROUTE 80/94  
RECONSTRUCTION PROJECT**

**REVERSIBLE LANES TRAFFIC REDIRECTION  
AND ACCESS CONTROL SYSTEM**

**ONTARIO TO EDENS JUNCTION**

**COVER PLATE - S.S.  
FOR SWING GATE INSERT IN BARRIER WALL SPECIAL  
L.H. (C.C.W. GATE ROTATION)**

02/19/93	ISSUED FOR REVLAC BID	
01/15/93	REVLAC PREFINAL REVIEW	
11/13/92	INWE REVIEW	
10/09/92	REVLAC PREFINAL	
07/17/92	RELEASE FOR SEB BID	
01/03/92	GENERAL REVISIONS	
08/01/91	RELEASE FOR REV. CON. BID	

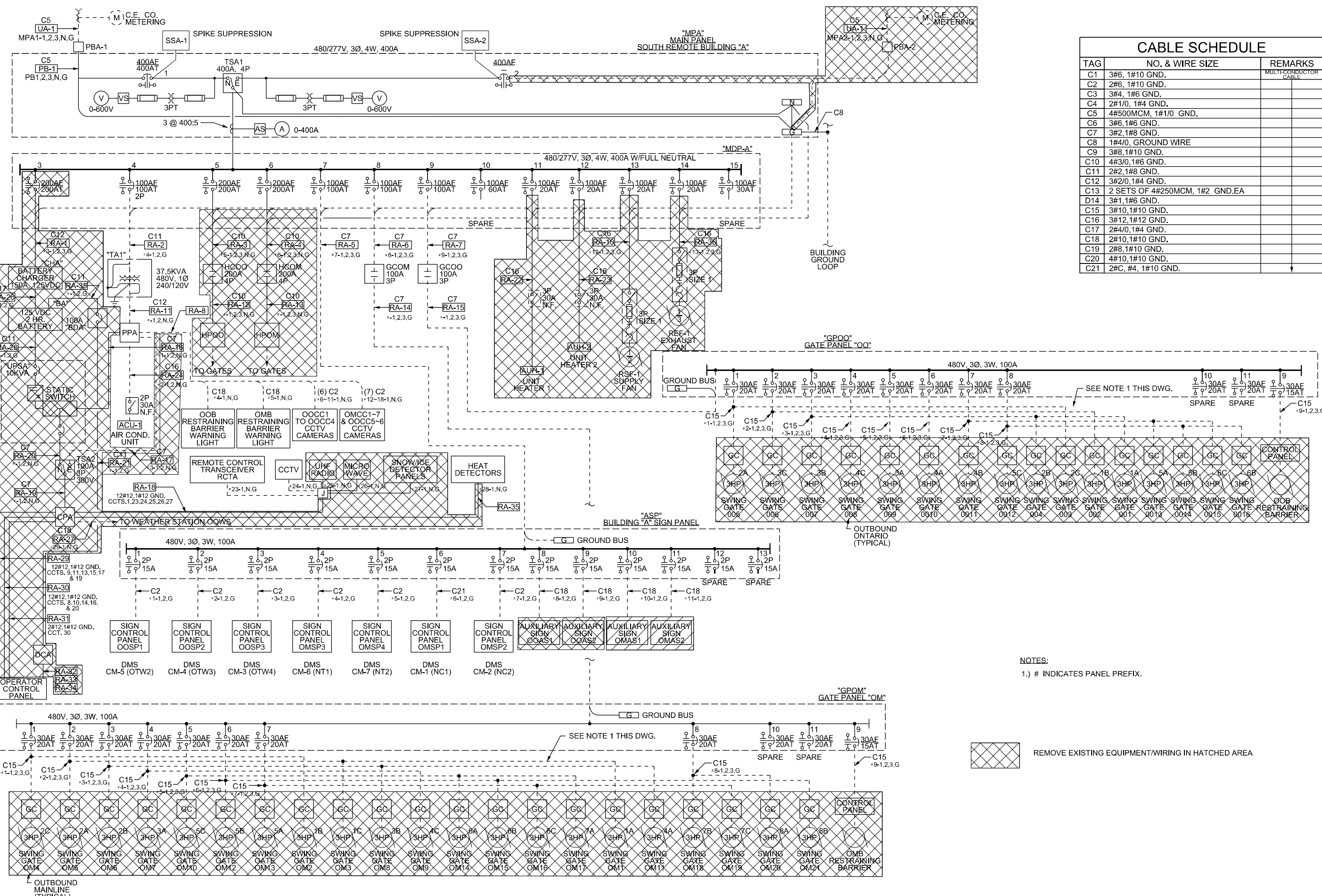
Leslar B. Knight & Associates, Inc.  
Architects - Engineers - Planners  
4482  
03/29/91

FOR INFORMATION ONLY

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CABLE SCHEDULE		
TAG	NO. & WIRE SIZE	REMARKS
C1	3#6, 1#10 GND.	MULTI-CONDUCTOR CABLE
C2	2#6, 1#10 GND.	
C3	3#4, 1#6 GND.	
C4	2#1/0, 1#4 GND.	
C5	4#500MCM, 1#1/0 GND.	
C6	3#6, 1#6 GND.	
C7	3#2, 1#8 GND.	
C8	1#4/0, GROUND WIRE	
C9	3#8, 1#10 GND.	
C10	4#3/0, 1#6 GND.	
C11	2#2, 1#8 GND.	
C12	3#2/0, 1#4 GND.	
C13	2 SETS OF 4#250MCM, 1#2 GND.EA	
D14	3#1, 1#6 GND.	
C15	3#10, 1#10 GND.	
C16	3#12, 1#12 GND.	
C17	2#4/0, 1#4 GND.	
C18	2#10, 1#10 GND.	
C19	2#8, 1#10 GND.	
C20	4#10, 1#10 GND.	
C21	2#C, #4, 1#10 GND.	

NOTES:  
1.) # INDICATES PANEL PREFIX.

REMOVE EXISTING EQUIPMENT/WIRING IN HATCHED AREA

FILE NAME = D180748-shi-EK-03.dgn  
 USER NAME = korabmp  
 DESIGNED - MCP  
 DRAWN - MB  
 CHECKED - CS  
 DATE - 1/27/2022  
 PLOT SCALE = 2,0000' / in.  
 PLOT DATE = 3/22/2022

**KNIGHT**  
Engineers & Architects

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

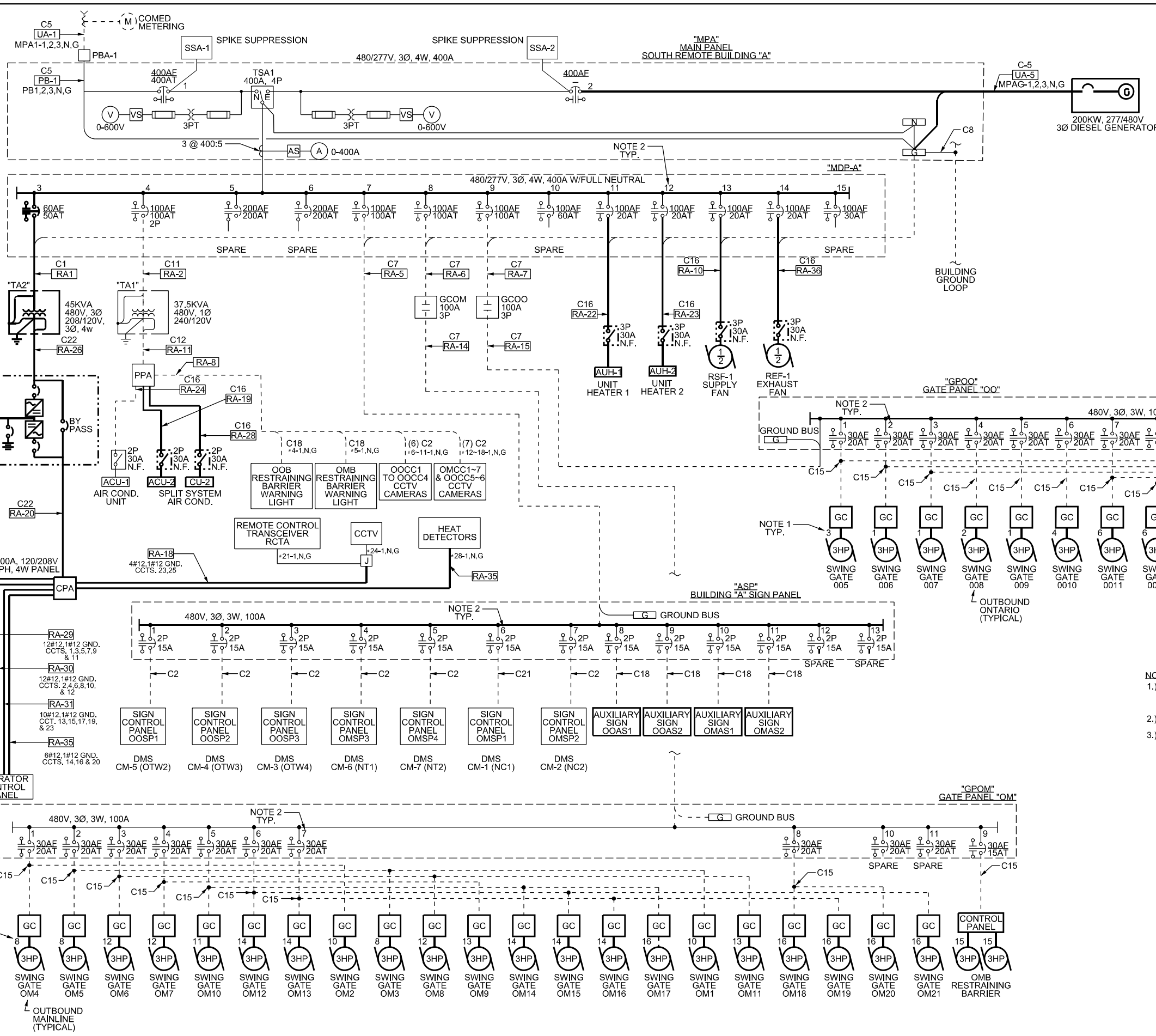
**ELECTRICAL ONE LINE POWER DIAGRAM**  
**SOUTH REMOTE BUILDING A - DEMOLITION**

SCALE: NTS SHEET 1 OF 8 SHEETS STA. N/A TO STA. N/A

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	288	159
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T46	

E-03

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CABLE SCHEDULE		
TAG	NO. & WIRE SIZE	REMARKS
C1	3#6, 1#10 GND.	MULTI-CONDUCTOR CABLE
C2	2#6, 1#10 GND.	
C3	3#4, 1#6 GND.	
C4	2#1/0, 1#4 GND.	
C5	4#500MCM, 1#1/0 GND.	
C6	3#6, 1#6 GND.	
C7	3#2, 1#8 GND.	
C8	1#4/0, GROUND WIRE	
C9	3#8, 1#10 GND.	
C10	4#3/0, 1#6 GND.	
C11	2#2, 1#8 GND.	
C12	3#2/0, 1#4 GND.	
C13	2 SETS OF 4#250MCM, 1#2 GND.EA	
D14	3#1, 1#6 GND.	
C15	3#10, 1#10 GND.	
C16	3#12, 1#12 GND.	
C17	2#4/0, 1#4 GND.	
C18	2#10, 1#10 GND.	
C19	2#8, 1#10 GND.	
C20	4#10, 1#10 GND.	
C21	2#C, #4, 1#10 GND.	
C22	4#C, #2, 1#8 GND.	

- NOTES:
- 120V POWER CONTROL WIRING TO INDIVIDUAL GATE CONTROLS TO BE PULLED THROUGH EXISTING 4" CONDUIT "H" FROM "CPA" PANEL, VIA OPERATOR CONTROL PANEL. SEE SHEETS E-15 THROUGH E-20 FOR POWER CONTROL WIRING ROUTING.
  - NUMBERS INDICATED AT FEEDERS REPRESENT THE PANEL BREAKER NUMBERS
  - PROPOSED EQUIPMENT, DEVICES AND WIRING IS SHOWN AS A BOLD LINE.

**KNIGHT**  
Engineers & Architects

USER NAME = korabmp  
DESIGNED - MCP  
DRAWN - MB  
CHECKED - CS  
DATE - 1/27/2022

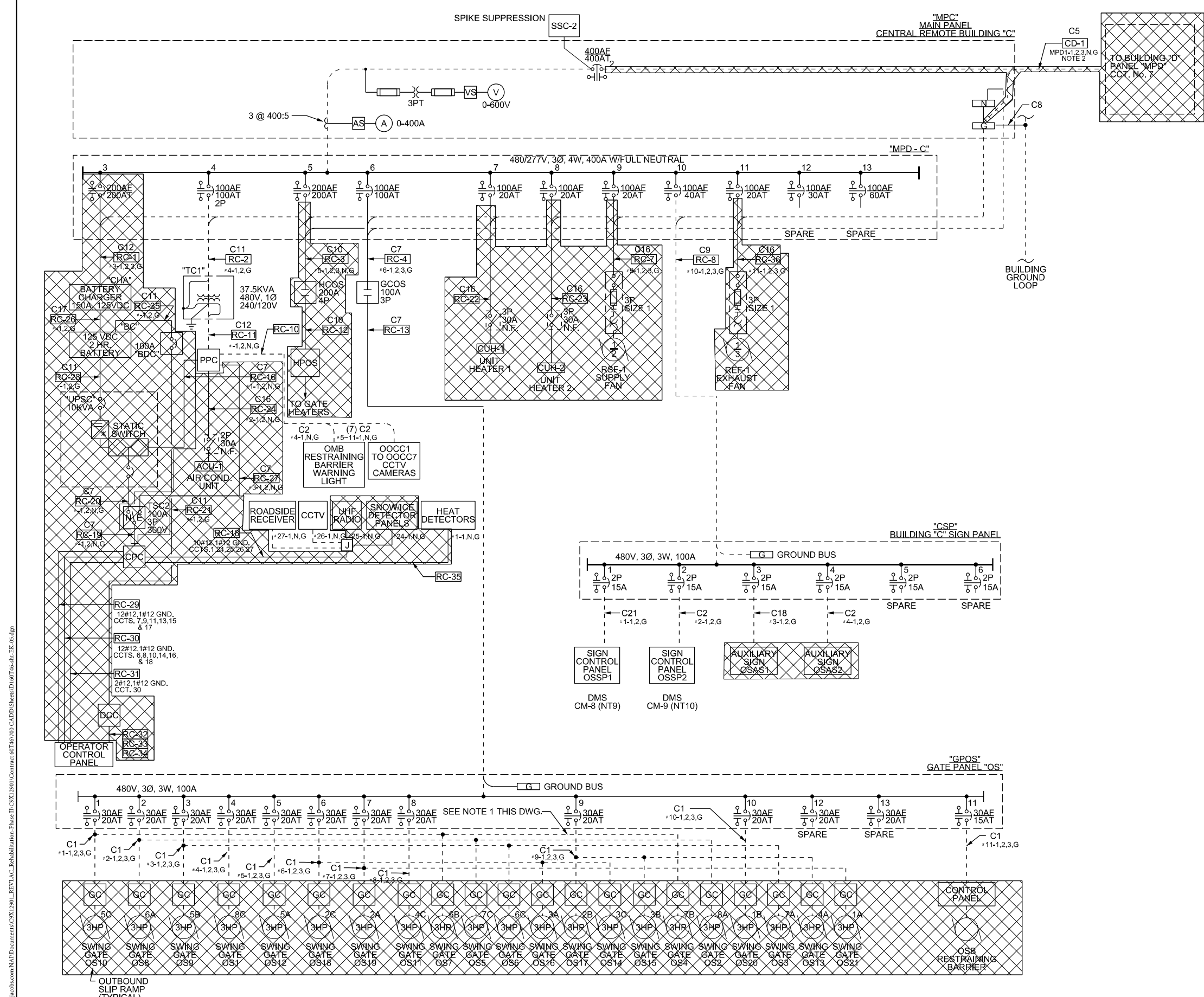
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REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL ONE LINE POWER DIAGRAM  
SOUTH REMOTE BUILDING A**

SCALE: NTS SHEET 2 OF 8 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
90/94 2012-0081 COOK 288 160  
CONTRACT NO. 60746  
ILLINOIS FED. AID PROJECT



CABLE SCHEDULE		
TAG	NO. & WIRE SIZE	REMARKS
C1	3#6, 1#10 GND.	MULTI-CONDUCTOR CABLE
C2	2#6, 1#10 GND.	
C3	3#4, 1#6 GND.	
C4	2#1/0, 1#4 GND.	
C5	4#500MCM, 1#1/0 GND.	
C6	3#6, 1#6 GND.	
C7	3#2, 1#8 GND.	
C8	1#4/0, GROUND WIRE	
C9	3#8, 1#10 GND.	
C10	4#3/0, 1#6 GND.	
C11	2#2, 1#8 GND.	
C12	3#2/0, 1#4 GND.	
C13	2 SETS OF 4#250MCM, 1#2 GND.EA	
D14	3#1, 1#6 GND.	
C15	3#10, 1#10 GND.	
C16	3#12, 1#12 GND.	
C17	2#4/0, 1#4 GND.	
C18	2#10, 1#10 GND.	
C19	2#8, 1#10 GND.	
C20	4#10, 1#10 GND.	
C21	2#C, #4, 1#10 GND.	

REMOVE EXISTING EQUIPMENT/WIRING IN HATCHED AREA

- NOTES:  
 1.) # INDICATES PANEL PREFIX.  
 2.) FEEDER TO BE RE-USED TO CONNECT WITH THE COMED TRANSFORMER AT BUILDING "D". SEE SHEET E-7.

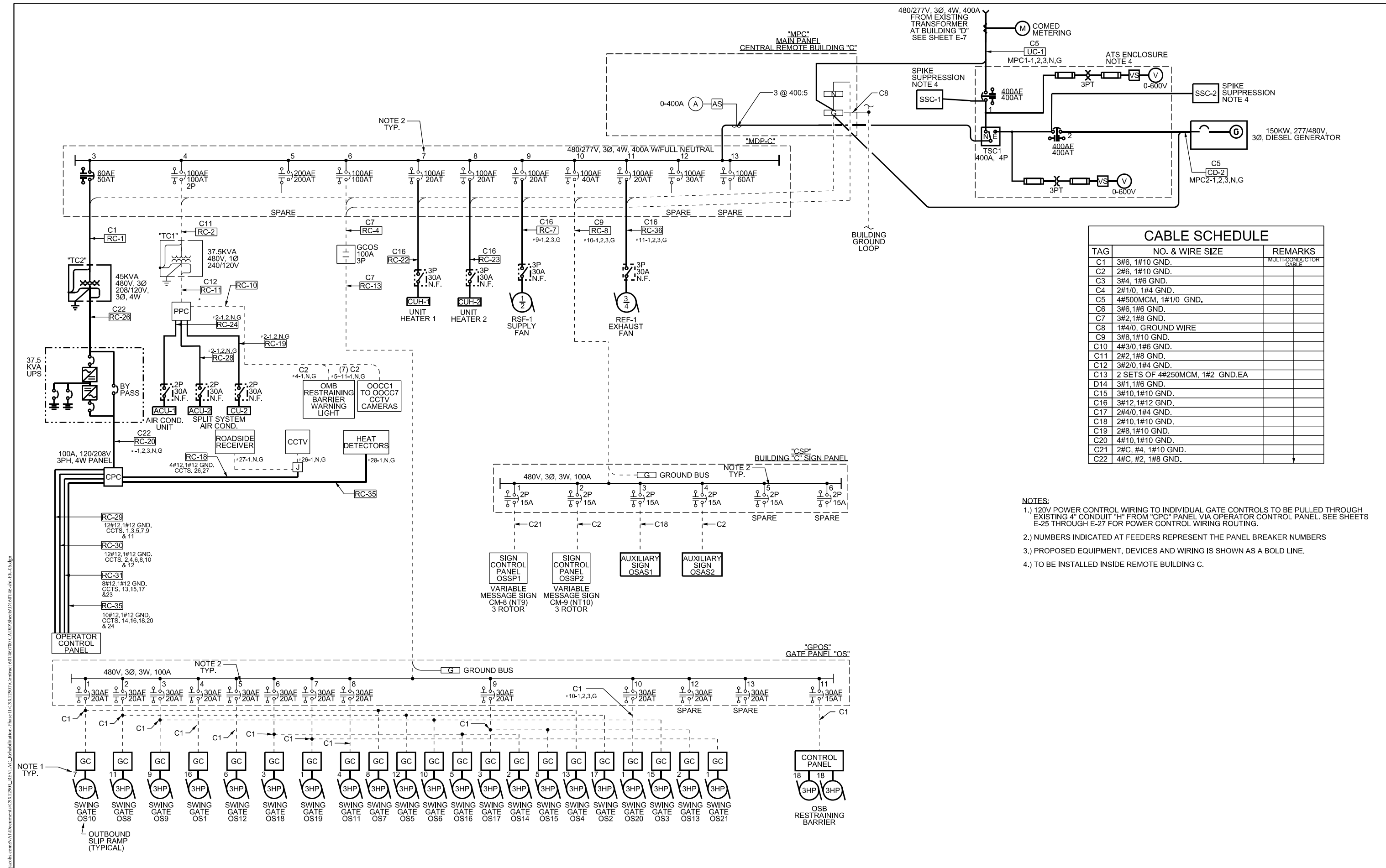
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 USER NAME = korabmp  
 DESIGNED - MCP  
 DRAWN - MB  
 CHECKED - CS  
 DATE - 1/27/2022  
 PLOT SCALE = 2,0000' / in.  
 PLOT DATE = 3/22/2022

**KNIGHT**  
 Engineers & Architects

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL ONE LINE POWER DIAGRAM**  
**CENTRAL REMOTE BUILDING C - DEMOLITION**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	288	161
CONTRACT NO.			60746	
SCALE: NTS		SHEET 3 OF 8 SHEETS		STA. N/A TO STA. N/A
ILLINOIS FED. AID PROJECT				



CABLE SCHEDULE		
TAG	NO. & WIRE SIZE	REMARKS
C1	3#6, 1#10 GND.	MULTI-CONDUCTOR CABLE
C2	2#6, 1#10 GND.	
C3	3#4, 1#6 GND.	
C4	2#1/0, 1#4 GND.	
C5	4#500MCM, 1#1/0 GND.	
C6	3#6, 1#6 GND.	
C7	3#2, 1#8 GND.	
C8	1#4/0, GROUND WIRE	
C9	3#8, 1#10 GND.	
C10	4#3/0, 1#6 GND.	
C11	2#2, 1#8 GND.	
C12	3#2/0, 1#4 GND.	
C13	2 SETS OF 4#250MCM, 1#2 GND.EA	
C14	3#1, 1#6 GND.	
C15	3#10, 1#10 GND.	
C16	3#12, 1#12 GND.	
C17	2#4/0, 1#4 GND.	
C18	2#10, 1#10 GND.	
C19	2#8, 1#10 GND.	
C20	4#10, 1#10 GND.	
C21	2#C, #4, 1#10 GND.	
C22	4#C, #2, 1#8 GND.	

- NOTES:
- 1.) 120V POWER CONTROL WIRING TO INDIVIDUAL GATE CONTROLS TO BE PULLED THROUGH EXISTING 4" CONDUIT "H" FROM "CPC" PANEL VIA OPERATOR CONTROL PANEL. SEE SHEETS E-25 THROUGH E-27 FOR POWER CONTROL WIRING ROUTING.
  - 2.) NUMBERS INDICATED AT FEEDERS REPRESENT THE PANEL BREAKER NUMBERS
  - 3.) PROPOSED EQUIPMENT, DEVICES AND WIRING IS SHOWN AS A BOLD LINE.
  - 4.) TO BE INSTALLED INSIDE REMOTE BUILDING C.

FILE NAME = D180748-shi-EK-08.dgn  
 USER NAME = korabmp  
 DESIGNED - MCP  
 DRAWN - MB  
 CHECKED - CS  
 DATE - 1/27/2022  
 PLOT SCALE = 2.0000"/in.  
 PLOT DATE = 3/22/2022

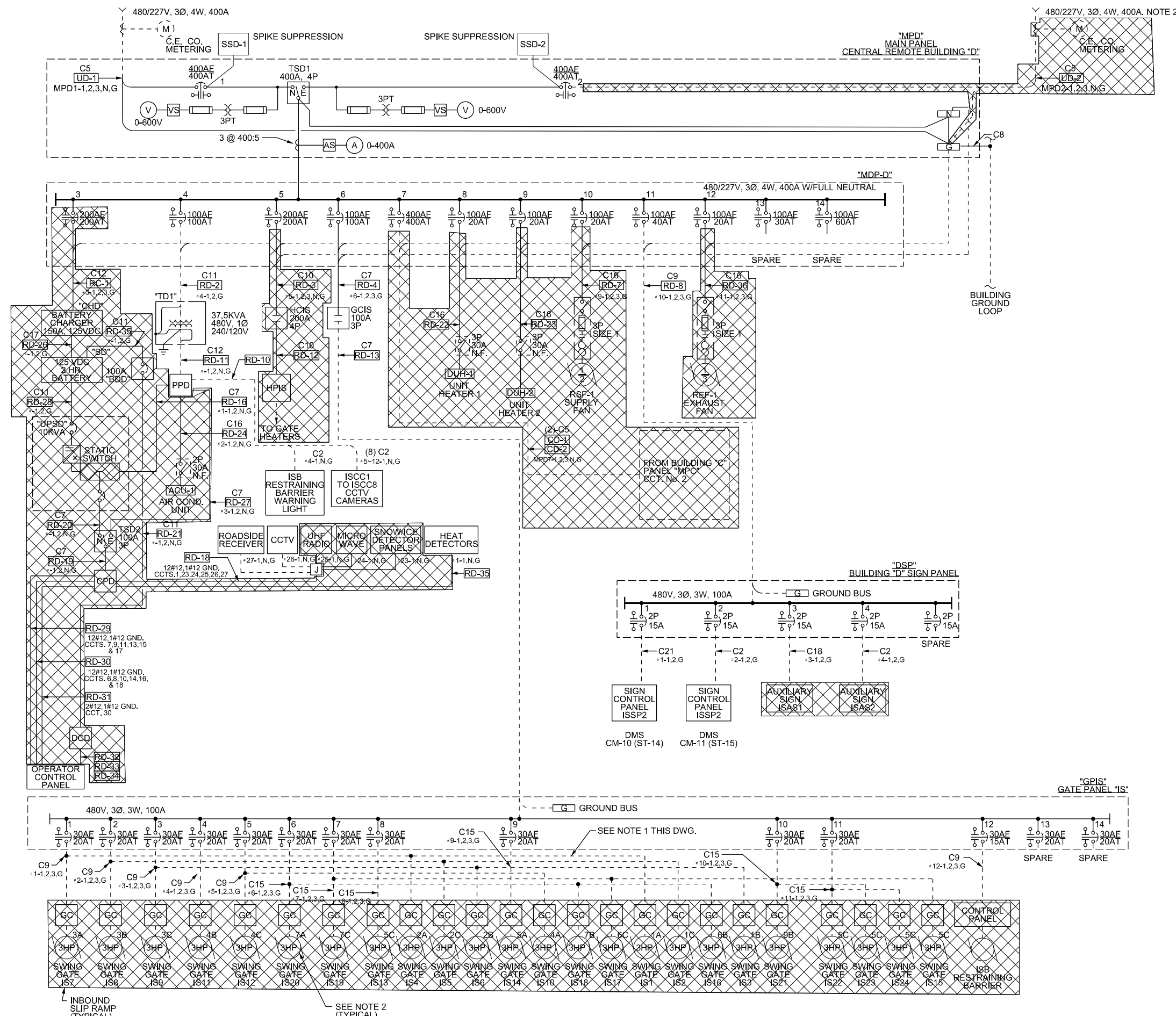
**KNIGHT**  
 Engineers & Architects

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**ELECTRICAL ONE LINE POWER DIAGRAM**  
**CENTRAL REMOTE BUILDING C**  
 SCALE: NTS SHEET 4 OF 8 SHEETS STA. N/A TO STA. N/A

E-06  
 F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 90/94 2012-0081 COOK 288 162  
 CONTRACT NO. 60746  
 ILLINOIS FED. AID PROJECT





CABLE SCHEDULE		
TAG	NO. & WIRE SIZE	REMARKS
C1	3#6, 1#10 GND.	MULTI-CONDUCTOR CABLE
C2	2#6, 1#10 GND.	
C3	3#4, 1#6 GND.	
C4	2#1/0, 1#4 GND.	
C5	4#500MCM, 1#1/0 GND.	
C6	3#6, 1#6 GND.	
C7	3#2, 1#8 GND.	
C8	1#4/0, GROUND WIRE	
C9	3#8, 1#10 GND.	
C10	4#3/0, 1#6 GND.	
C11	2#2, 1#8 GND.	
C12	3#2/0, 1#4 GND.	
C13	2 SETS OF 4#250MCM, 1#2 GND.EA	
D14	3#1, 1#6 GND.	
C15	3#10, 1#10 GND.	
C16	3#12, 1#12 GND.	
C17	2#4/0, 1#4 GND.	
C18	2#10, 1#10 GND.	
C19	2#8, 1#10 GND.	
C20	4#10, 1#10 GND.	
C21	2#C, #4, 1#10 GND.	

- NOTES:
- 1.) # INDICATES PANEL PREFIX.
  - 2.) CONNECT EXISTING SERVICE TRANSFORMER TO BUILDING "C" SERVICE USING THE EXISTING FEEDER BETWEEN BUILDING "D" AND BUILDING "C". SEE SHEETS E-5 AND E-6.

REMOVE EXISTING EQUIPMENT/WIRING IN HATCHED AREA

FILE NAME = D180748-shi-EK-07.dgn  
 USER NAME = korabmp  
 DESIGNED - MCP  
 DRAWN - MB  
 CHECKED - CS  
 DATE - 1/27/2022  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 3/22/2022

**KNIGHT**  
Engineers & Architects

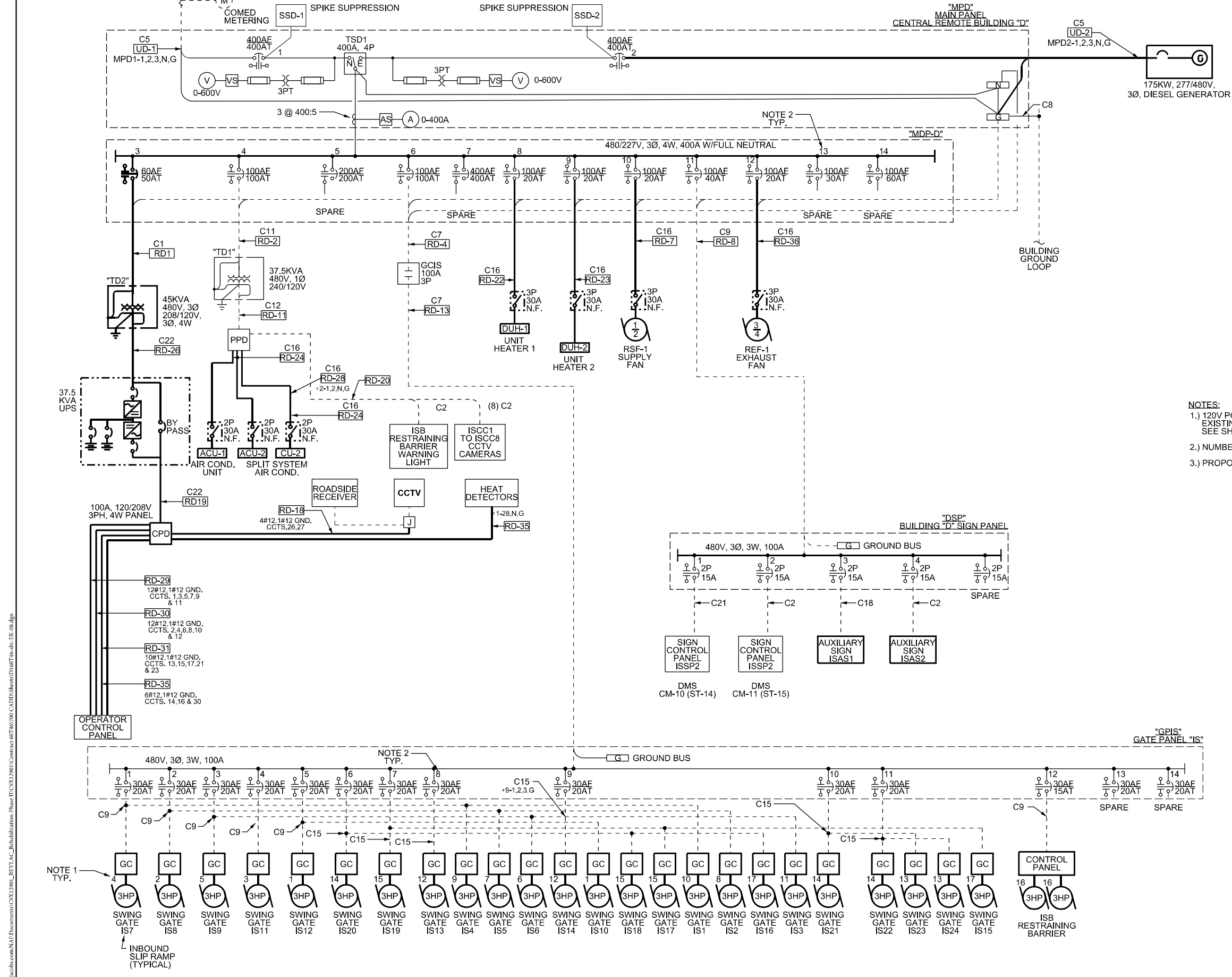
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		DRAWN - MB	REVISED -
		CHECKED - CS	REVISED -
		DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL ONE LINE POWER DIAGRAM  
CENTRAL REMOTE BUILDING D - DEMOLITION**

SCALE: NTS SHEET 5 OF 8 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	288	163
CONTRACT NO. 60T46			ILLINOIS FED. AID PROJECT	

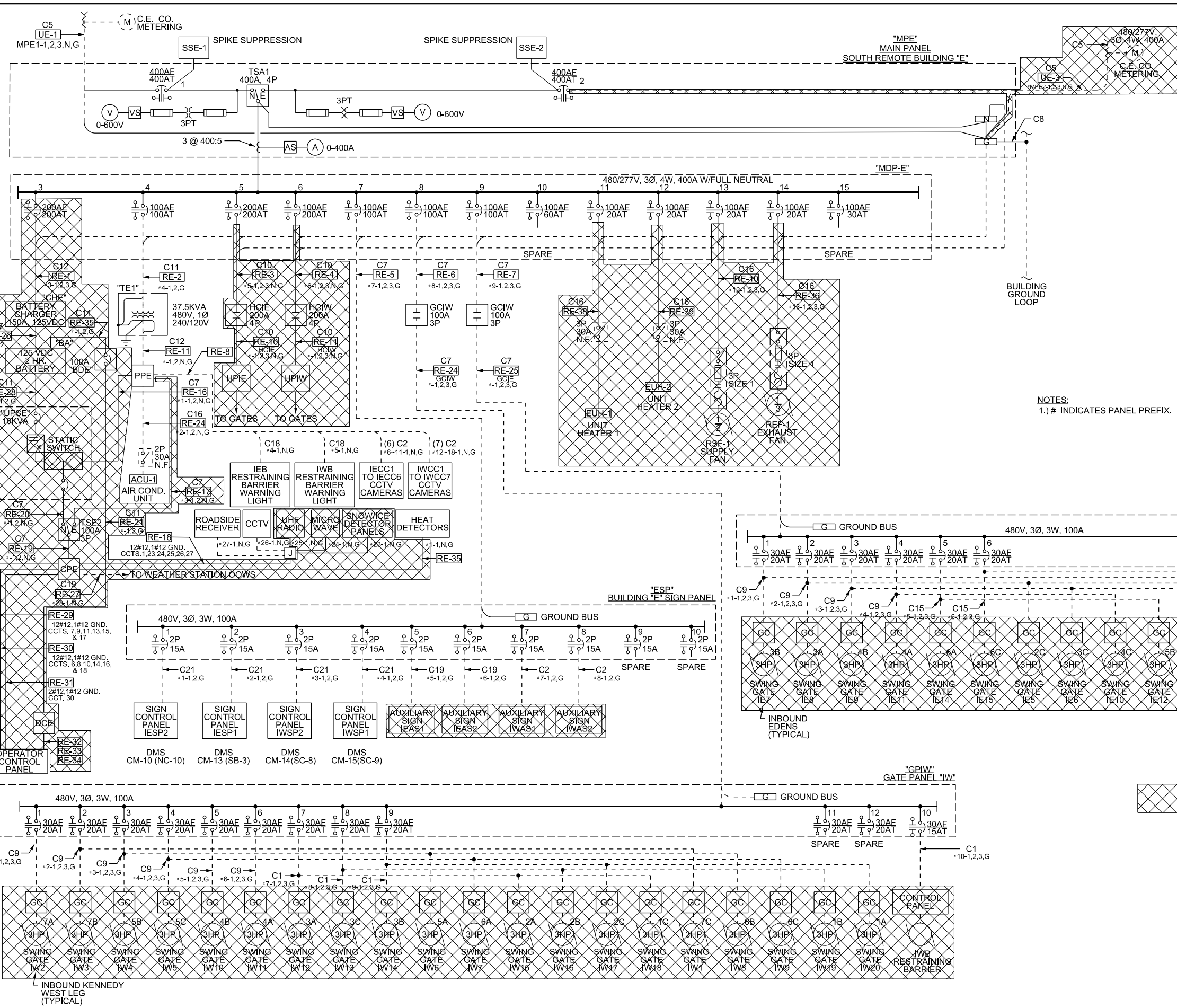


CABLE SCHEDULE		
TAG	NO. & WIRE SIZE	REMARKS
C1	3#6, 1#10 GND.	MULTI-CONDUCTOR CABLE
C2	2#6, 1#10 GND.	
C3	3#4, 1#6 GND.	
C4	2#1/0, 1#4 GND.	
C5	4#500MCM, 1#1/0 GND.	
C6	3#6, 1#6 GND.	
C7	3#2, 1#8 GND.	
C8	1#4/0, GROUND WIRE	
C9	3#8, 1#10 GND.	
C10	4#3/0, 1#6 GND.	
C11	2#2, 1#8 GND.	
C12	3#2/0, 1#4 GND.	
C13	2 SETS OF 4#250MCM, 1#2 GND.EA	
D14	3#1, 1#6 GND.	
C15	3#10, 1#10 GND.	
C16	3#12, 1#12 GND.	
C17	2#4/0, 1#4 GND.	
C18	2#10, 1#10 GND.	
C19	2#8, 1#10 GND.	
C20	4#10, 1#10 GND.	
C21	2#C, #4, 1#10 GND.	
C22	4#C, #2, 1#8 GND.	

**NOTES:**

- 120V POWER WIRING TO INDIVIDUAL GATE CONTROLS TO BE PULLED THROUGH EXISTING 4" CONDUIT "H" FROM "CPD" PANEL VIA OPERATOR CONTROL PANEL. SEE SHEETS E-28 THROUGH E-30 FOR POWER CONTROL WIRING ROUTING.
- NUMBERS INDICATED AT FEEDERS REPRESENT THE PANEL BREAKER NUMBERS
- PROPOSED EQUIPMENT, DEVICES AND WIRING IS SHOWN AS A BOLD LINE.

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CABLE SCHEDULE		
TAG	NO. & WIRE SIZE	REMARKS
C1	3#6, 1#10 GND.	MULTI-CONDUCTOR CABLE
C2	2#6, 1#10 GND.	
C3	3#4, 1#6 GND.	
C4	2#1/0, 1#4 GND.	
C5	4#500MCM, 1#1/0 GND.	
C6	3#6, 1#6 GND.	
C7	3#2, 1#8 GND.	
C8	1#4/0, GROUND WIRE	
C9	3#8, 1#10 GND.	
C10	4#3/0, 1#6 GND.	
C11	2#2, 1#8 GND.	
C12	3#2/0, 1#4 GND.	
C13	2 SETS OF 4#250MCM, 1#2 GND.EA	
C14	3#1, 1#6 GND.	
C15	3#10, 1#10 GND.	
C16	3#12, 1#12 GND.	
C17	2#4/0, 1#4 GND.	
C18	2#10, 1#10 GND.	
C19	2#8, 1#10 GND.	
C20	4#10, 1#10 GND.	
C21	2#C, #4, 1#10 GND.	

NOTES:  
1.) # INDICATES PANEL PREFIX.

REMOVE EXISTING EQUIPMENT/WIRING IN HATCHED AREA

FILE NAME = D180748-shi-EK-09.dgn  
 USER NAME = korabmp  
 DESIGNED - MCP  
 DRAWN - MB  
 CHECKED - CS  
 DATE - 1/27/2022  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 3/22/2022



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL ONE LINE POWER DIAGRAM  
NORTH REMOTE BUILDING E - DEMOLITION**

SCALE: NTS SHEET 7 OF 8 SHEETS STA. N/A TO STA. N/A

F.A.I. R/E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	288	165
CONTRACT NO.			60746	
ILLINOIS FED. AID PROJECT				



**REMOTE BUILDING PANELS SCHEDULES**

**REMOTE BUILDING A**

PANEL DESIGNATION	SERVICE	MAINS		MOUNTING F-FLUSH S-SURFACE	NO. OF BRANCH C/B'S				REMARKS
		TYPE	SIZE AMP		1-POLE	2-POLE	3-POLE	1P SPACES	
MPA	480/277V, 3Ø, 4W PLUS GROUND	CB	400A	S					SEE SHEET E-04 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPOO	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-04 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPOM	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-04 FOR PANEL DESCRIPTION AND BREAKER SIZES
ASP	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-04 FOR PANEL DESCRIPTION AND BREAKER SIZES
PPA	120/240V, 1Ø, 3W PLUS GROUND	CB	200A	S	20-20A	1-20A 1-30A 2-100A		14	
CPA	120/208V, 3Ø, 4W PLUS GROUND	CB	100A	S	42-20A				REPLACEMENT PANEL - SEE SHEET E-44 FOR REVLAC CONTROL AND CRITICAL LOADS ONLY
HPOO	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			8-20A	12	
HPOM	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			10-20A	12	
DCA	125 VDS PLUS GROUND	CB	100A	S					12-20A 1P FUSED SWITCHES 6 SPACES

**REMOTE BUILDING D**

PANEL DESIGNATION	SERVICE	MAINS		MOUNTING F-FLUSH S-SURFACE	NO. OF BRANCH C/B'S				REMARKS
		TYPE	SIZE AMP		1-POLE	2-POLE	3-POLE	1P SPACES	
MPD	480/277V, 3Ø, 4W PLUS GROUND	CB	400A	S					SEE SHEET E-08 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPIS	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-08 FOR PANEL DESCRIPTION AND BREAKER SIZES
DSP	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-08 FOR PANEL DESCRIPTION AND BREAKER SIZES
PPD	120/240V, 1Ø, 3W PLUS GROUND	CB	200A	S	12-20A	2-20A 1-30A 2-100A		20	
CPD	120/208V, 3Ø, 4W PLUS GROUND	CB	100A	S	42-20A				REPLACEMENT PANEL - SEE SHEET E-44 FOR REVLAC CONTROL AND CRITICAL LOADS ONLY
HPS	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			8-20A	12	
DCB	125 VDS PLUS GROUND	CB	100A	S					12-20A 1P FUSED SWITCHES 6 SPACES

**REMOTE BUILDING C**

PANEL DESIGNATION	SERVICE	MAINS		MOUNTING F-FLUSH S-SURFACE	NO. OF BRANCH C/B'S				REMARKS
		TYPE	SIZE AMP		1-POLE	2-POLE	3-POLE	1P SPACES	
MPC	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S					SEE SHEET E-06 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPOS	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-06 FOR PANEL DESCRIPTION AND BREAKER SIZES
CSP	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-06 FOR PANEL DESCRIPTION AND BREAKER SIZES
PPC	120/240V, 1Ø, 3W PLUS GROUND	CB	200A	S	12-20A	1-20A 1-30A 2-100A		10	
CPC	120/208V, 3Ø, 4W PLUS GROUND	CB	100A	S	42-20A				REPLACEMENT PANEL - SEE SHEET E-44 FOR REVLAC CONTROL AND CRITICAL LOADS ONLY
HPOS	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			8-20A	12	
DCC	125 VDS PLUS GROUND	CB	100A	S					12-20A 1P FUSED SWITCHES 6 SPACES

**REMOTE BUILDING E**

PANEL DESIGNATION	SERVICE	MAINS		MOUNTING F-FLUSH S-SURFACE	NO. OF BRANCH C/B'S				REMARKS
		TYPE	SIZE AMP		1-POLE	2-POLE	3-POLE	1P SPACES	
MPE	480/277V, 3Ø, 4W PLUS GROUND	CB	400A	S					SEE SHEET E-10 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPIE	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-10 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPIW	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-10 FOR PANEL DESCRIPTION AND BREAKER SIZES
ESP	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-10 FOR PANEL DESCRIPTION AND BREAKER SIZES
PPE	120/240V, 1Ø, 3W PLUS GROUND	CB	200A	S	18-20A	2-20A 1-30A 2-100A		14	
CPE	120/208V, 3Ø, 4W PLUS GROUND	CB	100A	S	42-20A				REPLACEMENT PANEL - SEE SHEET E-44 FOR REVLAC CONTROL AND CRITICAL LOADS ONLY
HPRE	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			8-20A	12	
HPRW	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			10-20A	12	
DCE	125 VDS PLUS GROUND	CB	100A	S					12-20A 1P FUSED SWITCHES 6 SPACES



P:\Projects\11616\11616.dwg; Phase II\CSX12901\Contract 60T46\700 CADD\Sheet\11616T46.dwg; EK; JUB; gsm

	USER NAME = HANNARS	DESIGNED - MCP	REVISED -	<p align="center"><b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>ELECTRICAL SCHEDULES REMOTE BUILDING SCHEDULE</b></p>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.00' / in.	DRAWN - MB	REVISED -					90/94	2012-0081	COOK	268	168
	PLOT DATE = 5/10/2022	CHECKED - CS	REVISED -					CONTRACT NO. 60T46				
	DATE - 1/27/2022	REVISED -		SCALE: NTS	SHEET 2 OF 2 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS	FED. AID PROJECT			

**REMOTE BUILDING PANELS SCHEDULES**

**REMOTE BUILDING A**

PANEL DESIGNATION	SERVICE	MAINS		MOUNTING F-FLUSH S-SURFACE	NO. OF BRANCH C/B'S				REMARKS
		TYPE	SIZE AMP		1-POLE	2-POLE	3-POLE	1P SPACES	
MPA	480/277V, 3Ø, 4W PLUS GROUND	CB	400A	S					SEE SHEET E-04 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPOO	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-04 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPOM	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-04 FOR PANEL DESCRIPTION AND BREAKER SIZES
ASP	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-04 FOR PANEL DESCRIPTION AND BREAKER SIZES
PPA	120/240V, 1Ø, 3W PLUS GROUND	CB	200A	S	20-20A	1-20A 1-30A 2-100A		14	
CPA	120/208V, 3Ø, 4W PLUS GROUND	CB	100A	S	42-20A				REPLACEMENT PANEL - SEE SHEET E-44 FOR REVLAC CONTROL AND CRITICAL LOADS ONLY
HPOO	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			8-20A	12	
HPOM	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			10-20A	12	
DCA	125 VDS PLUS GROUND	CB	100A	S					12-20A 1P FUSED SWITCHES 6 SPACES

**REMOTE BUILDING D**

PANEL DESIGNATION	SERVICE	MAINS		MOUNTING F-FLUSH S-SURFACE	NO. OF BRANCH C/B'S				REMARKS
		TYPE	SIZE AMP		1-POLE	2-POLE	3-POLE	1P SPACES	
MPD	480/277V, 3Ø, 4W PLUS GROUND	CB	400A	S					SEE SHEET E-08 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPIS	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-08 FOR PANEL DESCRIPTION AND BREAKER SIZES
DSP	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-08 FOR PANEL DESCRIPTION AND BREAKER SIZES
PPD	120/240V, 1Ø, 3W PLUS GROUND	CB	200A	S	12-20A	2-20A 1-30A 2-100A		20	
CPD	120/208V, 3Ø, 4W PLUS GROUND	CB	100A	S	42-20A				REPLACEMENT PANEL - SEE SHEET E-44 FOR REVLAC CONTROL AND CRITICAL LOADS ONLY
HPS	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			12-20A		
DCB	125 VDS PLUS GROUND	CB	100A	S					12-20A 1P FUSED SWITCHES 6 SPACES

**REMOTE BUILDING C**

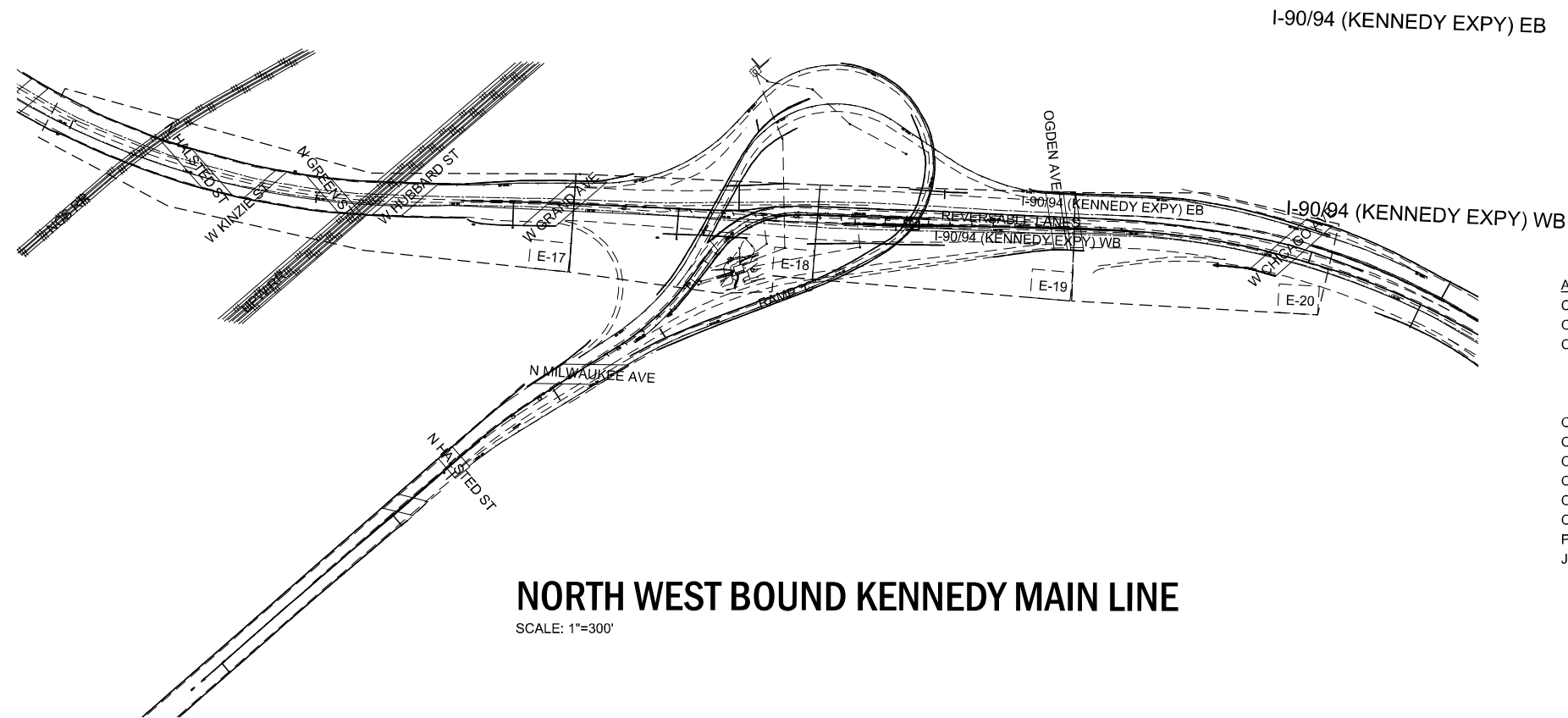
PANEL DESIGNATION	SERVICE	MAINS		MOUNTING F-FLUSH S-SURFACE	NO. OF BRANCH C/B'S				REMARKS
		TYPE	SIZE AMP		1-POLE	2-POLE	3-POLE	1P SPACES	
MPC	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S					SEE SHEET E-06 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPOS	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-06 FOR PANEL DESCRIPTION AND BREAKER SIZES
CSP	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-06 FOR PANEL DESCRIPTION AND BREAKER SIZES
PPC	120/240V, 1Ø, 3W PLUS GROUND	CB	200A	S	12-20A	1-20A 1-30A 2-100A		10	
CPC	120/208V, 3Ø, 4W PLUS GROUND	CB	100A	S	42-20A				REPLACEMENT PANEL - SEE SHEET E-44 FOR REVLAC CONTROL AND CRITICAL LOADS ONLY
HPOS	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			8-20A		
DCC	125 VDS PLUS GROUND	CB	100A	S					12-20A 1P FUSED SWITCHES 6 SPACES

**REMOTE BUILDING E**

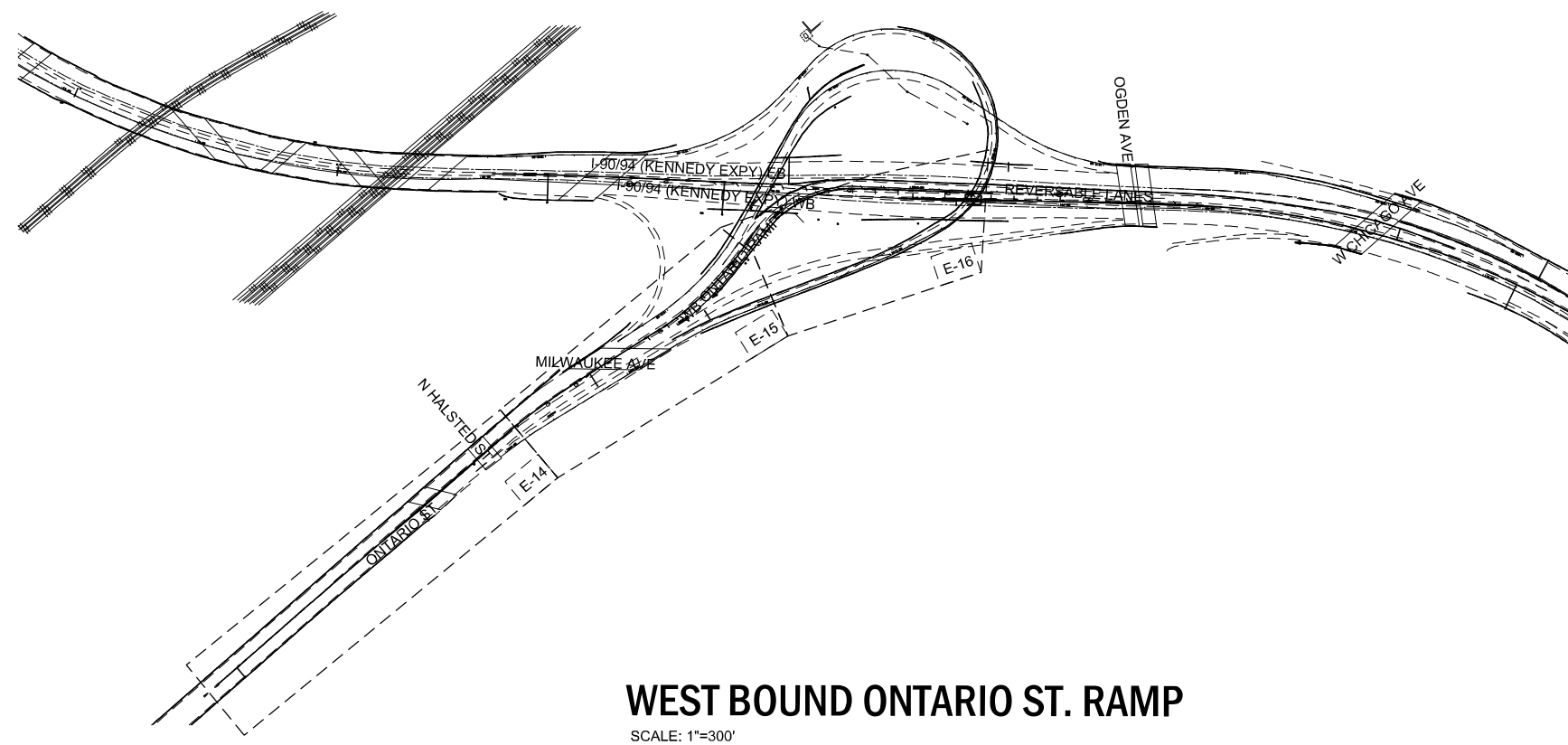
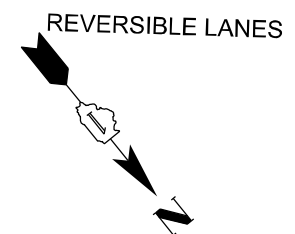
PANEL DESIGNATION	SERVICE	MAINS		MOUNTING F-FLUSH S-SURFACE	NO. OF BRANCH C/B'S				REMARKS
		TYPE	SIZE AMP		1-POLE	2-POLE	3-POLE	1P SPACES	
MPE	480/277V, 3Ø, 4W PLUS GROUND	CB	400A	S					SEE SHEET E-10 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPIE	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-10 FOR PANEL DESCRIPTION AND BREAKER SIZES
GPIW	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-10 FOR PANEL DESCRIPTION AND BREAKER SIZES
ESP	480/277V, 3Ø, 3W PLUS GROUND	MLO	100A	S					SEE SHEET E-10 FOR PANEL DESCRIPTION AND BREAKER SIZES
PPE	120/240V, 1Ø, 3W PLUS GROUND	CB	200A	S	18-20A	2-20A 1-30A 2-100A		14	
CPE	120/208V, 3Ø, 4W PLUS GROUND	CB	100A	S	42-20A				REPLACEMENT PANEL - SEE SHEET E-44 FOR REVLAC CONTROL AND CRITICAL LOADS ONLY
HPYE	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			8-20A	12	
HPYI	480/277V, 3Ø, 4W PLUS GROUND	CB	200A	S			10-20A	12	
DCE	125 VDS PLUS GROUND	CB	100A	S					12-20A 1P FUSED SWITCHES 6 SPACES



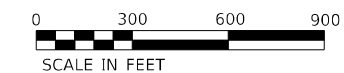
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- ABBREVIATIONS:**
- CM-x - DMS SIGN
  - OOSPx - DMS CONTROL PANEL
  - OOASx - AUXILIARY SIGN
    - x=1 - "GATE CLOSING"
    - x=2 - "STAY IN YOUR LANE"
    - x=3 - "OPEN/CLOSED"
  - OCCx - CCTV CAMERA
  - OOx - GATE
  - OOB - RESTRAINING BARRIER
  - OORPx - ROAD SIDE PANEL
  - OOSCx - ROAD SURFACE CONDITION SENSOR
  - OOVx - CHEVRON SIGN
  - PPxx - PULL BOX
  - JB - JUNCTION BOX

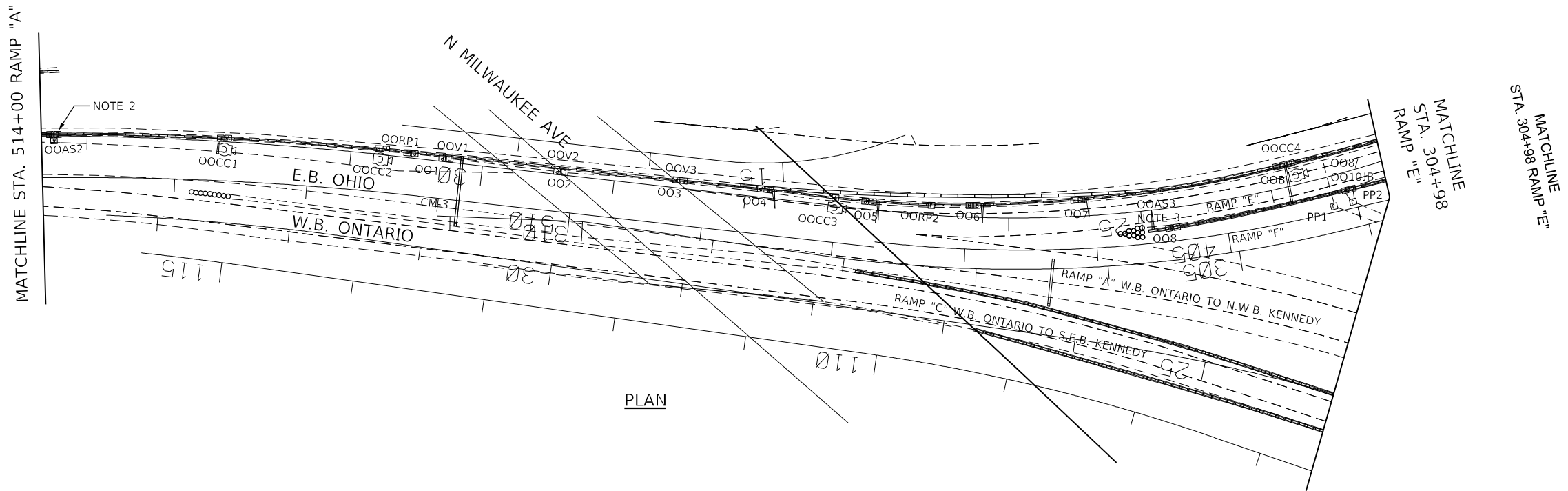


- ABBREVIATIONS:**
- CM-x - DMS SIGN
  - OMSPx - DMS CONTROL PANEL
  - OMASx - AUXILIARY SIGN
    - x=1 - "GATE CLOSING"
    - x=2 - "STAY IN YOUR LANE"
    - x=3 - "OPEN/CLOSED"
  - OMCCx - CCTV CAMERA
  - OMx - GATE
  - OMB - RESTRAINING BARRIER
  - OMRPx - ROAD SIDE PANEL
  - OMSCx - ROAD SURFACE CONDITION SENSOR
  - OMVx - CHEVRON SIGN
  - PPxx - PULL BOX
  - JB - JUNCTION BOX

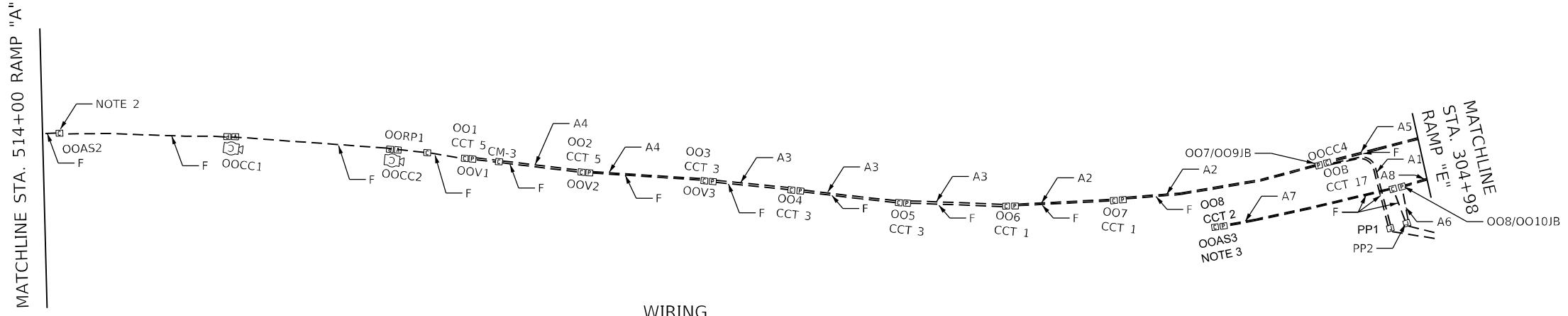


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<b>KNIGHT</b> Engineers & Architects	USER NAME = korabmp	DESIGNED - MCP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL POWER AND CONTROL PLANS</b> <b>ONTARIO ST. AND N.W.B. KENNEDY ORIENTATION PLAN</b>	P.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 169
	PLOT SCALE = 600.00' / in.	CHECKED - CS	REVISED -			SCALE: 1"=300'	SHEET 1 OF 27 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 60T46	

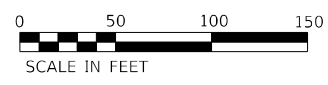


PLAN



WIRING

- NOTES:**
- SEE DRAWING E-02 FOR WIRING SCHEDULE.
  - AUXILIARY SIGN "OOAS2" CONTROL SHALL BE SWITCHED FROM SWING GATE "OM1". USE EXISTING CONTROL WIRING AND TERMINATE IT AT "OO1".
  - NEW AUXILIARY SIGN "OOAS3" SHALL BE SWITCHED FROM BARRIER "OOB".
  - SEE SINGLE LINE ON PLANS E-03 AND E-04 FOR AUXILIARY SIGNS TO BE REPLACED.
  - CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.

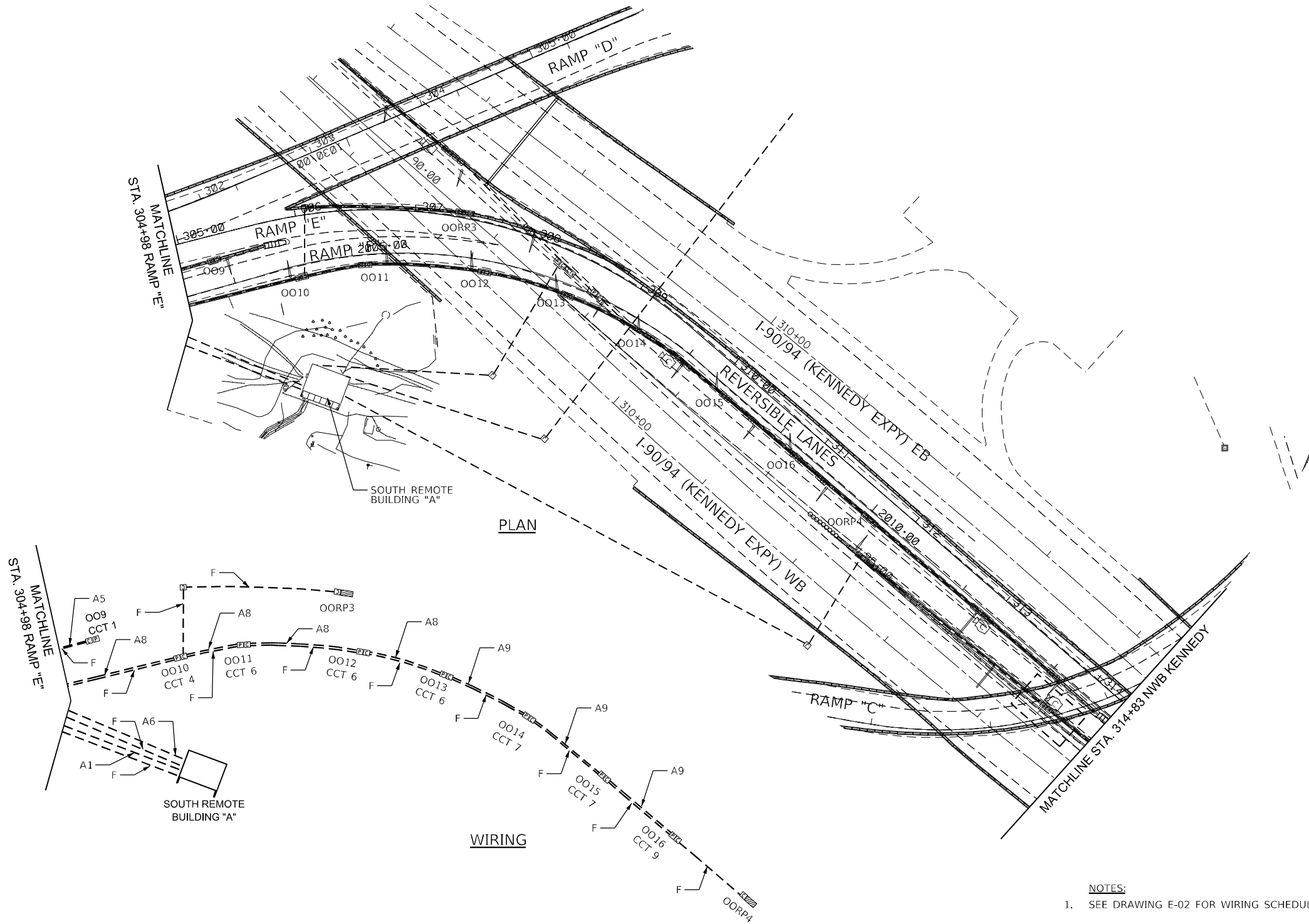


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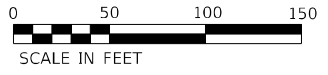
	USER NAME = HANNARS	DESIGNED - MCP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL POWER AND CONTROL PLANS</b> <b>W.B. ONTARIO/OHIO FEEDER</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.00' / in.	DRAWN - MB	REVISED -			90/94	2012-0081	COOK	268	171
PLOT DATE = 5/10/2022	CHECKED - CS	DATE - 1/27/2022	REVISED -	SCALE: 1"=50'		SHEET 3 OF 27 SHEETS	STA. 514+00 TO STA. 403+75	CONTRACT NO. 60746		
						ILLINOIS FED. AID PROJECT				



ONCS



- NOTES:**
- SEE DRAWING E-02 FOR WIRING SCHEDULE.
  - CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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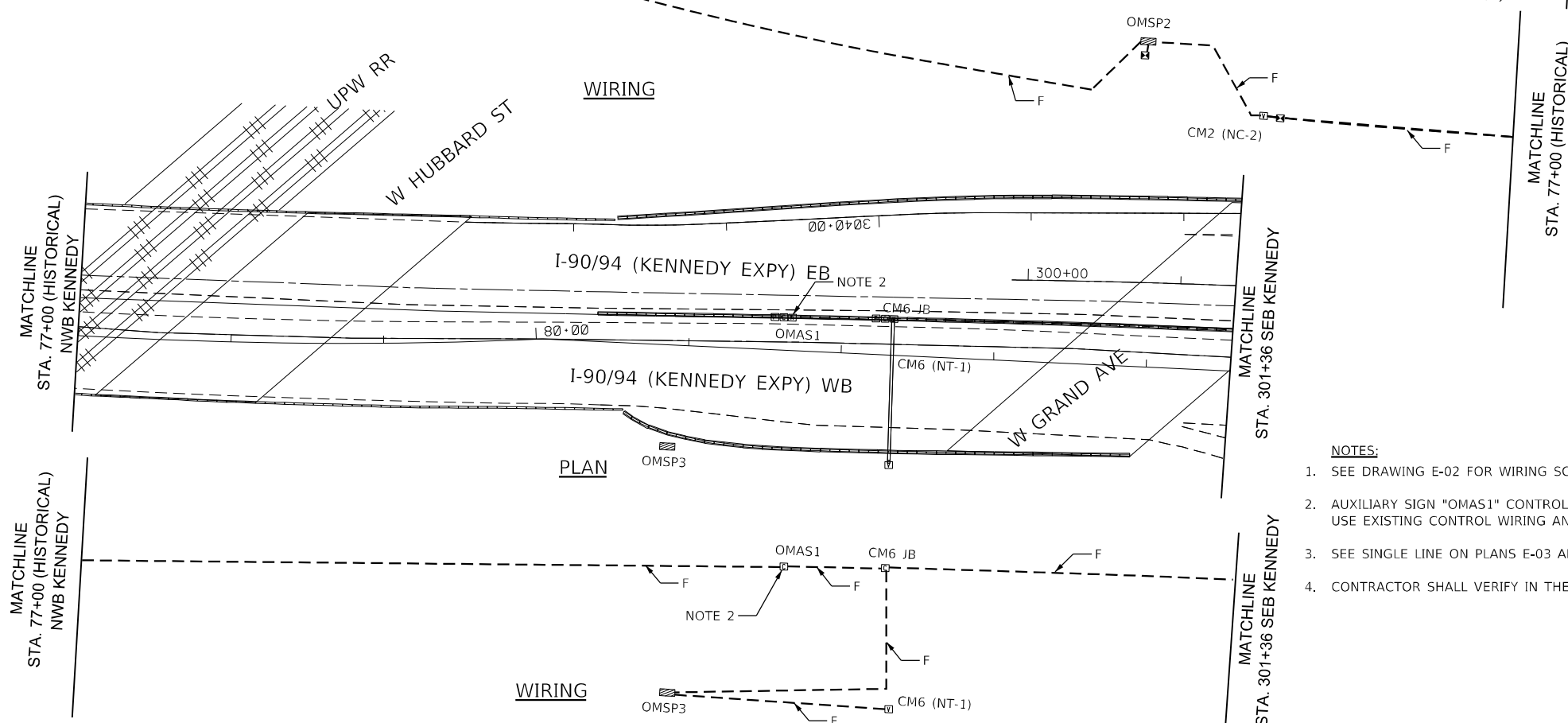
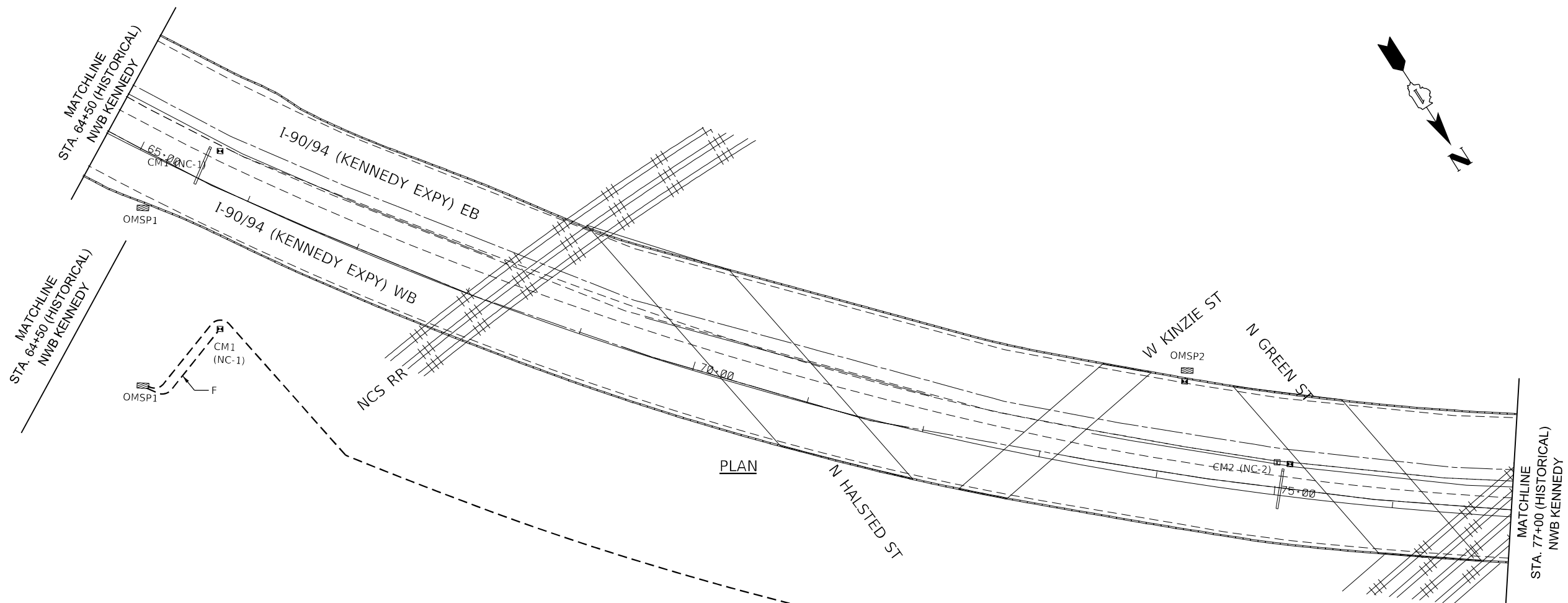


USER NAME = HANNARS	DESIGNED - MCP	REVISED -
DRAWN - MB	REVISED -	
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PLOT DATE = 5/10/2022	DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ELECTRICAL POWER AND CONTROL PLANS W.B. ONTARIO/OHIO FEEDER</b>			
SCALE: 1"=50'	SHEET 4	OF 27 SHEETS	TO STA. 395+75

F.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 172
CONTRACT NO. 60T46				E-16
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
  2. AUXILIARY SIGN "OMAS1" CONTROL SHALL BE SWITCHED FROM SWING GATE "OM1". USE EXISTING CONTROL WIRING AND TERMINATE IT AT "OM1".
  3. SEE SINGLE LINE ON PLANS E-03 AND E-04 FOR AUXILIARY SIGNS TO BE REPLACED.
  4. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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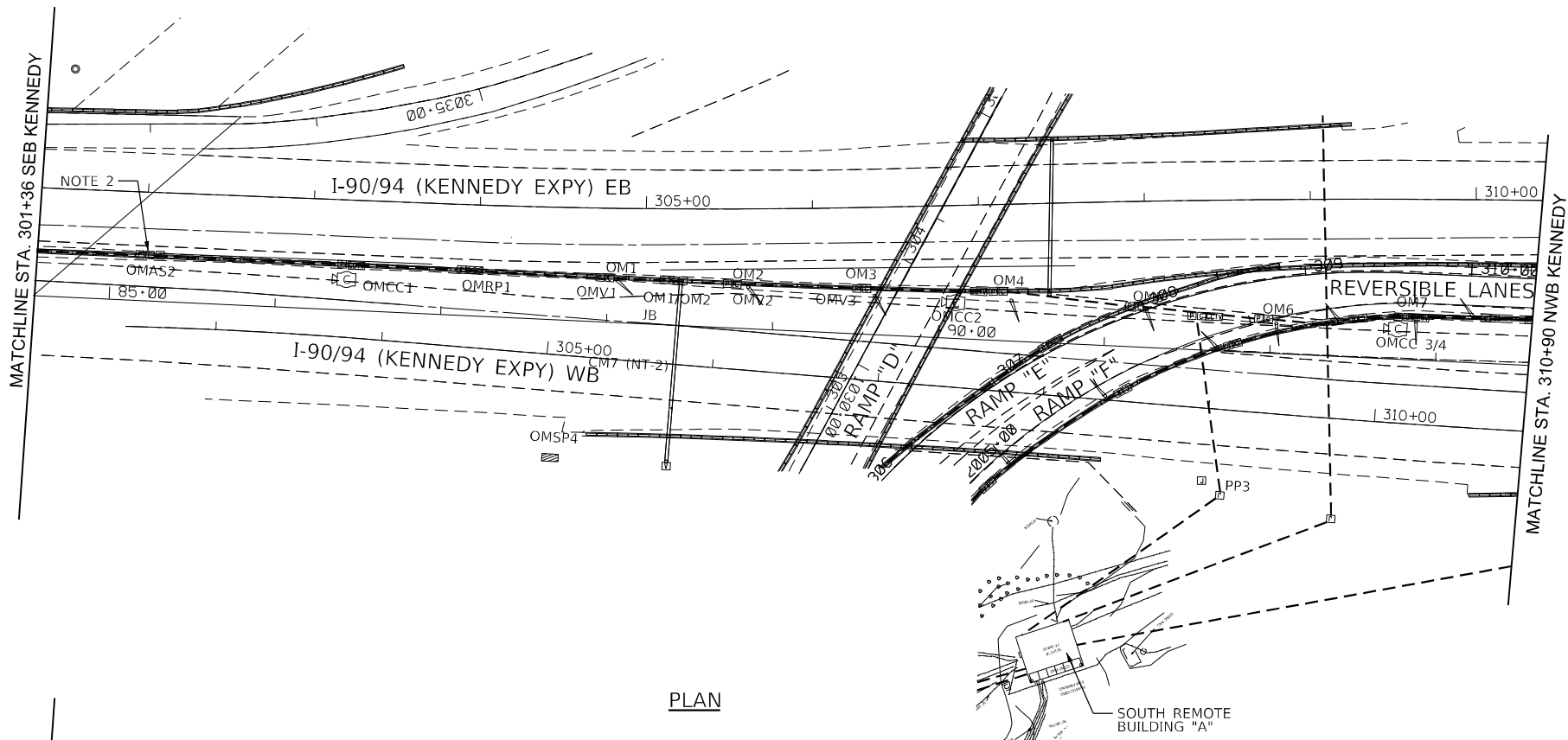
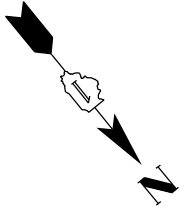
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PLOT DATE = 5/10/2022	DATE - 1/27/2022	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

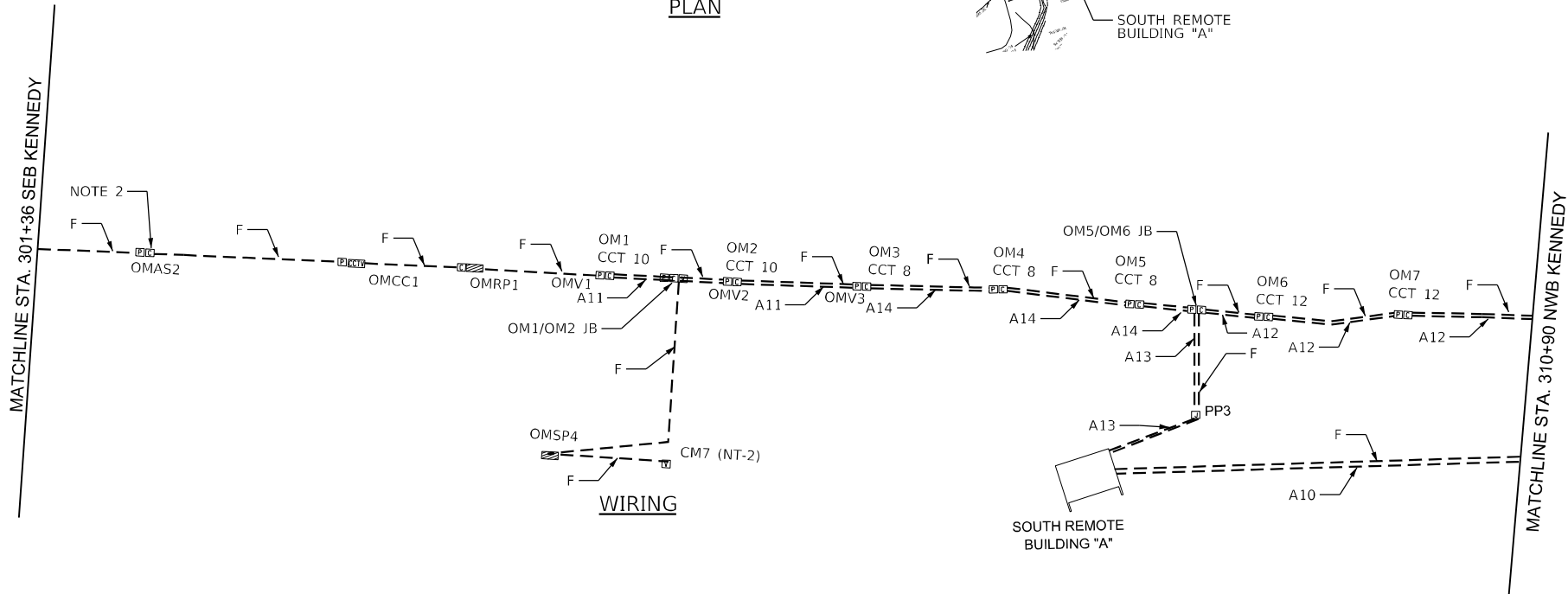
**ELECTRICAL POWER AND CONTROL PLANS  
KENNEDY NORTHWEST BOUND**

SCALE: 1"=50'    SHEET 5 OF 27 SHEETS    STA. 64+50 TO STA. 82+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	173
CONTRACT NO.			60T46	
ILLINOIS			FED. AID PROJECT	



PLAN



WIRING

NOTES:

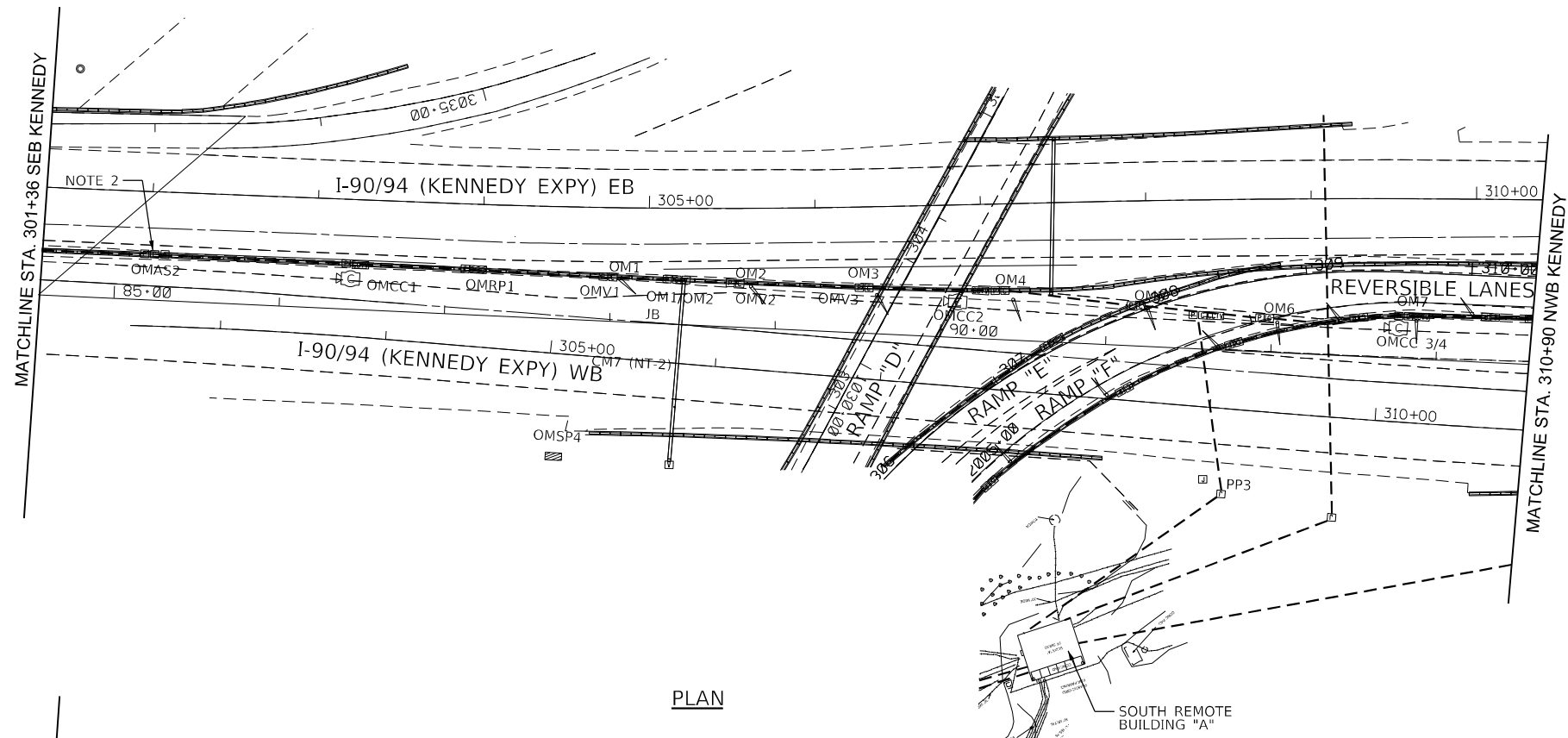
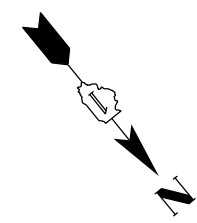
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
2. AUXILIARY SIGN "OMAS2" CONTROL SHALL BE SWITCHED FROM SWING GATE "OM1". USE EXISTING CONTROL WIRING AND TERMINATE IT AT "OM1".
3. SEE SINGLE LINE ON PLANS E-03 AND E-04 FOR AUXILIARY SIGNS TO BE REPLACED.
4. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



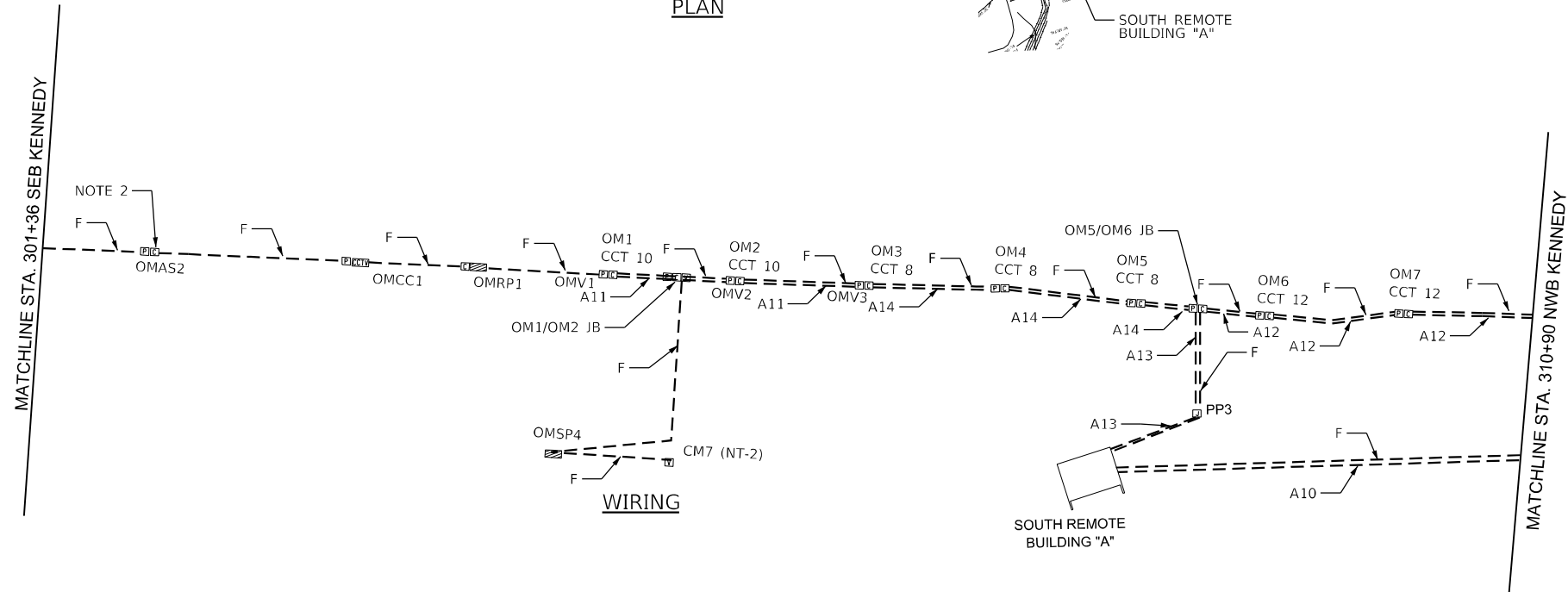
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DRAWN - MB	REVISOR -	REVISOR -
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PLOT DATE = 5/10/2022	DATE - 1/27/2022	REVISOR -

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	174
CONTRACT NO.			60746	
ILLINOIS FED. AID PROJECT				

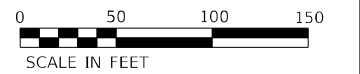


PLAN



WIRING

- NOTES:**
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
  2. AUXILIARY SIGN "OMAS2" CONTROL SHALL BE SWITCHED FROM SWING GATE "OM1". USE EXISTING CONTROL WIRING AND TERMINATE IT AT "OM1".
  3. SEE SINGLE LINE ON PLANS E-03 AND E-04 FOR AUXILIARY SIGNS TO BE REPLACED.
  4. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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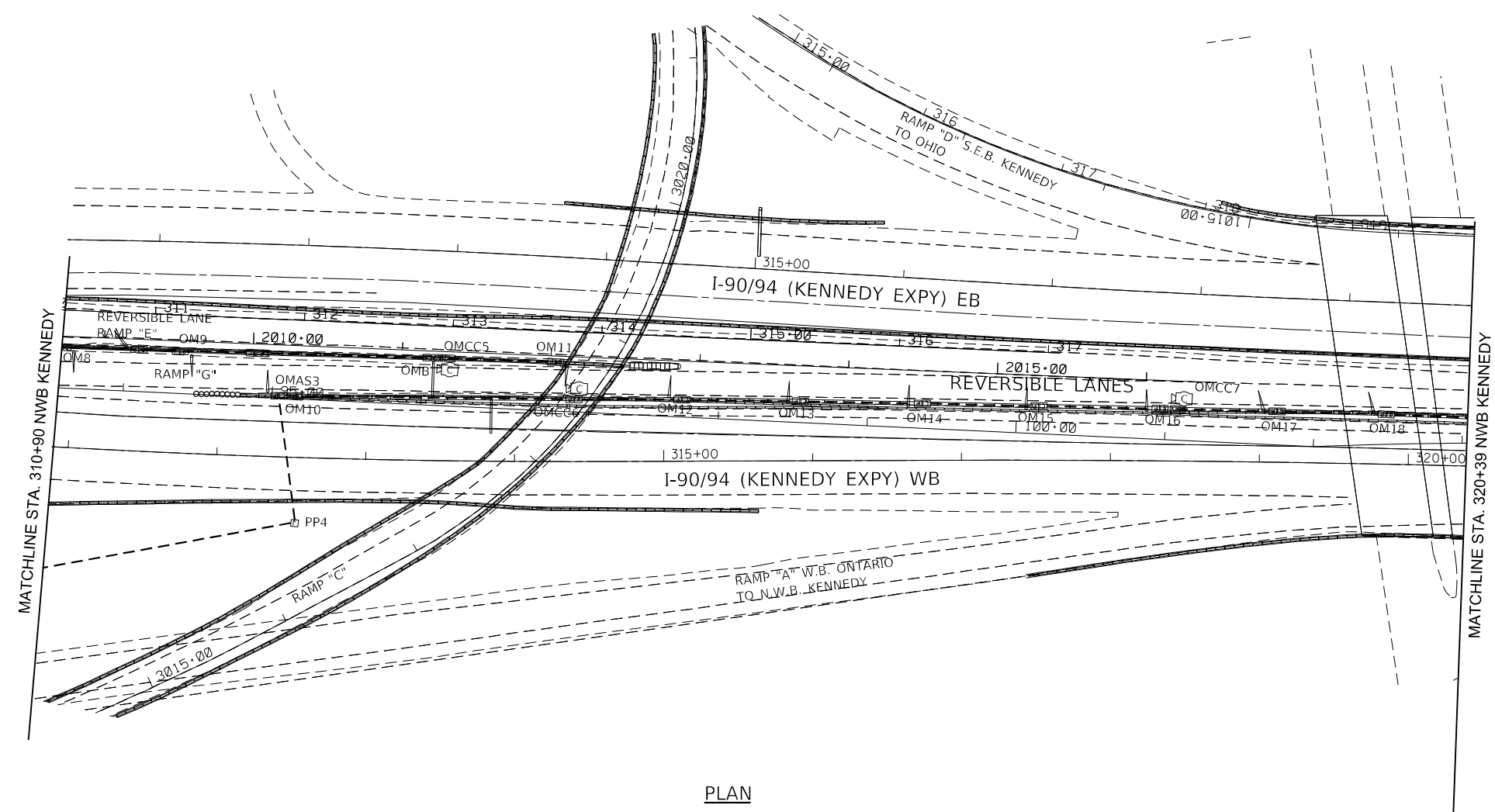
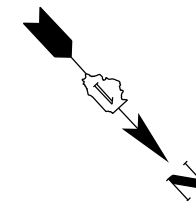


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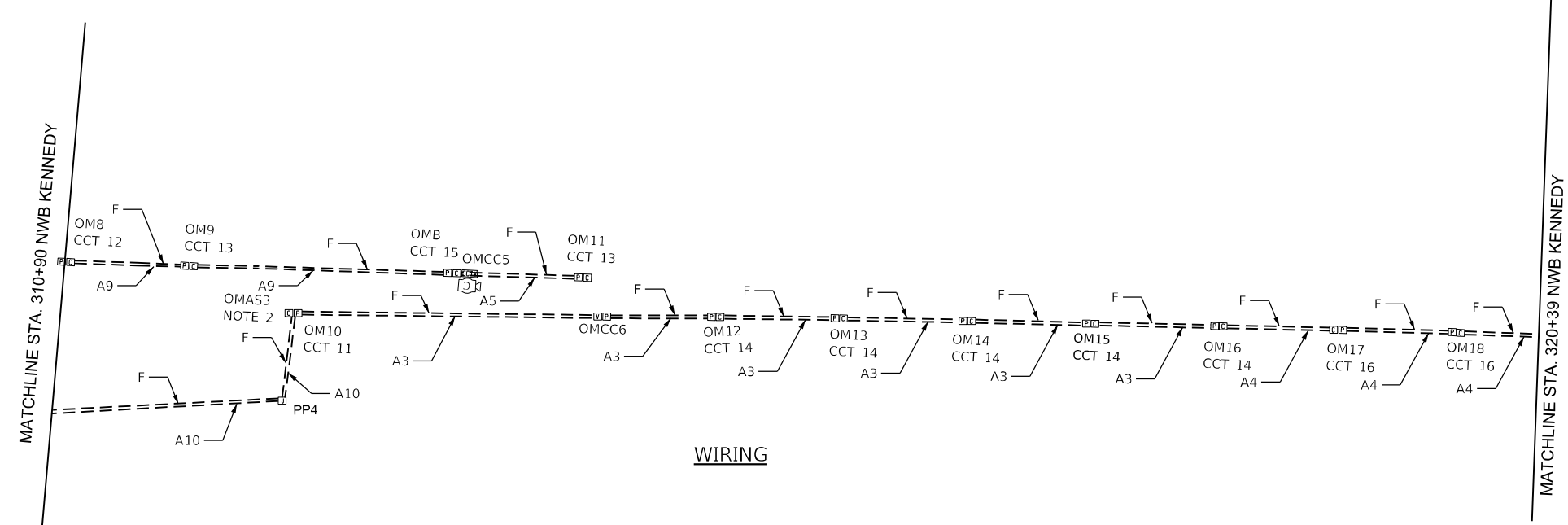
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ELECTRICAL POWER AND CONTROL PLANS KENNEDY NORTHWEST BOUND</b>			
SCALE: 1"=50'	SHEET 6 OF 27 SHEETS	STA. 82+00	TO STA. 91+00

F.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 174
CONTRACT NO. 60T46			ILLINOIS FED. AID PROJECT	



PLAN



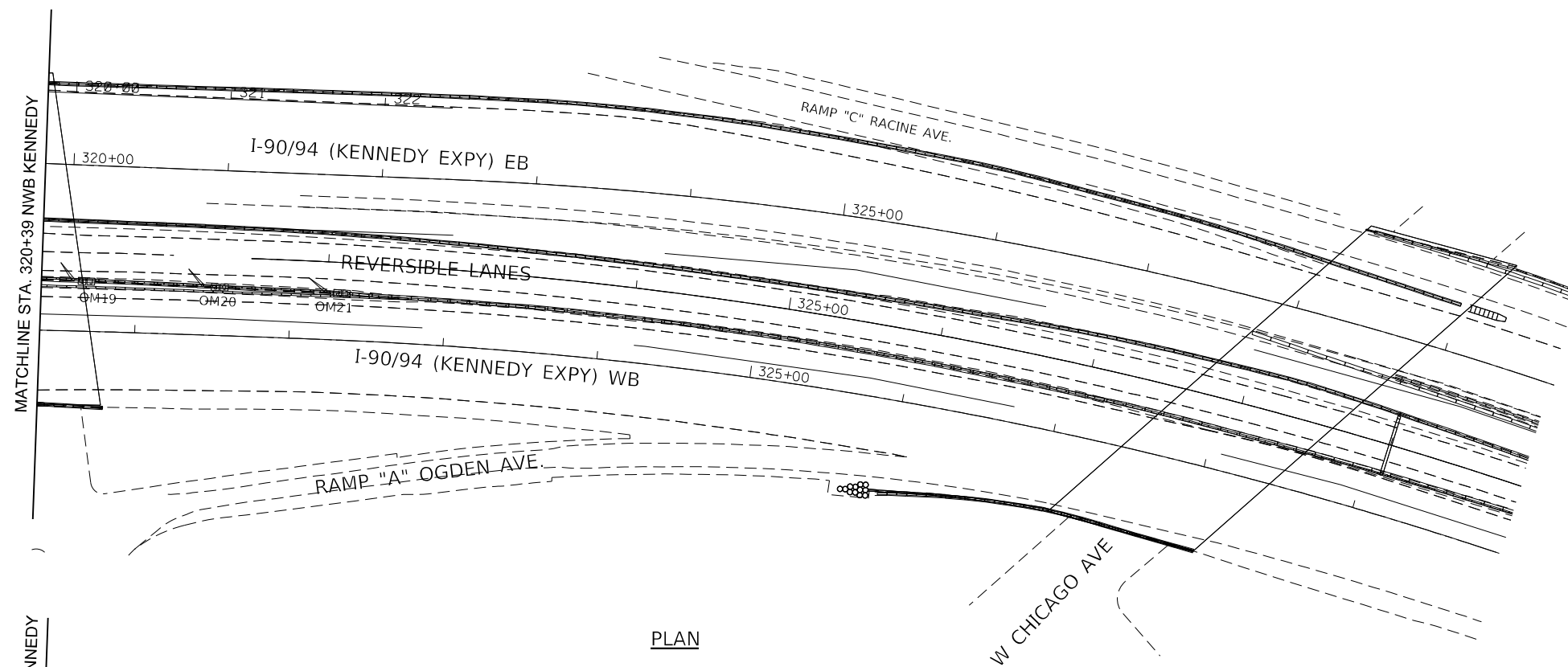
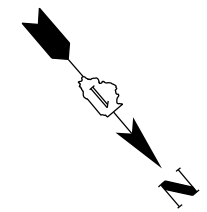
WIRING

- NOTES:**
- SEE DRAWING E-02 FOR WIRING SCHEDULE.
  - NEW AUXILIARY SIGN "OMAS3" SHALL BE SWITCHED FROM BARRIER "OMB".
  - CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.

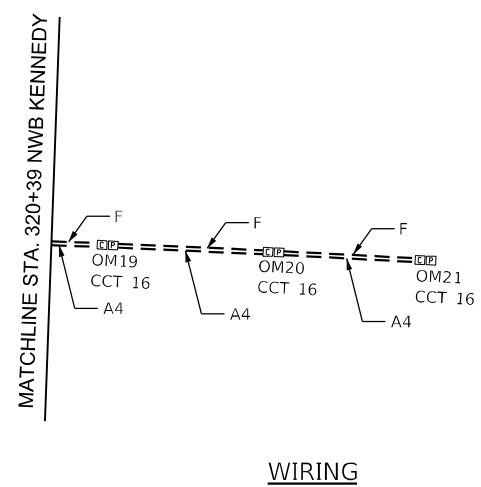


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<b>KNIGHT</b> Engineers & Architects	USER NAME = korabmp	DESIGNED - MCP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL POWER AND CONTROL PLANS</b> <b>KENNEDY NORTHWEST BOUND</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.00' / in.	CHECKED - CS	REVISED -		REVISED -	SCALE: 1"=50'	SHEET 7 OF 27 SHEETS	STA. 91+00 TO STA. 100+50	90/94	2012-0081	COOK	268
PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -	REVISED -				CONTRACT NO. 60746		ILLINOIS FED. AID PROJECT			



PLAN



WIRING

- NOTES:**
- SEE DRAWING E-02 FOR WIRING SCHEDULE.
  - CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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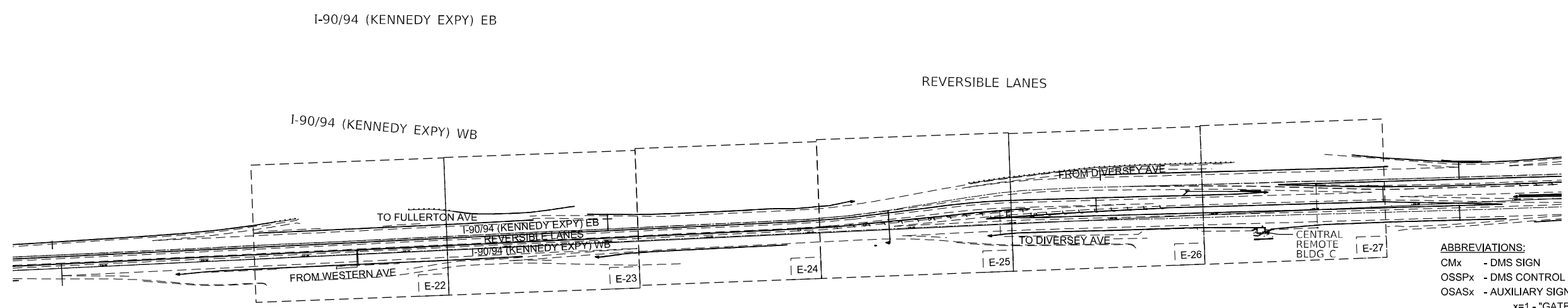
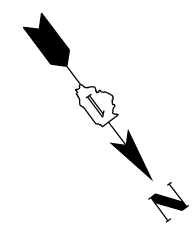
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	PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL POWER AND CONTROL PLANS  
KENNEDY NORTHWEST BOUND**

SCALE: 1"=50'    SHEET 8 OF 27 SHEETS    STA. 100+50 TO STA. 110+00

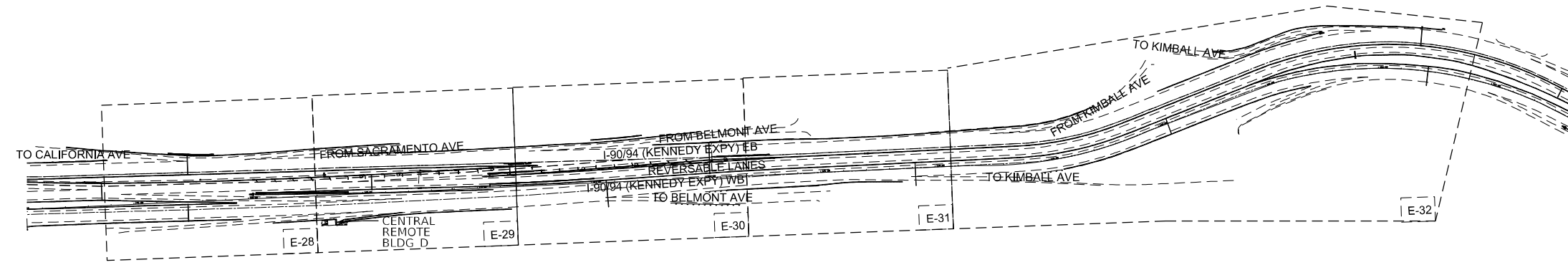
P.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 176
CONTRACT NO. 60T46			ILLINOIS FED. AID PROJECT	



### OUTBOUND SLIP RAMP

SCALE: 1"=300'

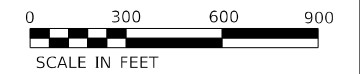
- ABBREVIATIONS:**
- CMx - DMS SIGN
  - OSSPx - DMS CONTROL PANEL
  - OSASx - AUXILIARY SIGN
    - x=1 - "GATE CLOSING"
    - x=2 - "STAY IN YOUR LANE"
    - x=3 - "OPEN/CLOSED"
  - OSCCx - CCTV CAMERA
  - OSx - GATE
  - OSB - RESTRAINING BARRIER
  - OSRPx - ROAD SIDE PANEL
  - OSSCx - ROAD SURFACE CONDITION SENSOR
  - OSVx - CHEVRON SIGN
  - PPxx - PULL BOX
  - JB - JUNCTION BOX



### INBOUND SLIP RAMP

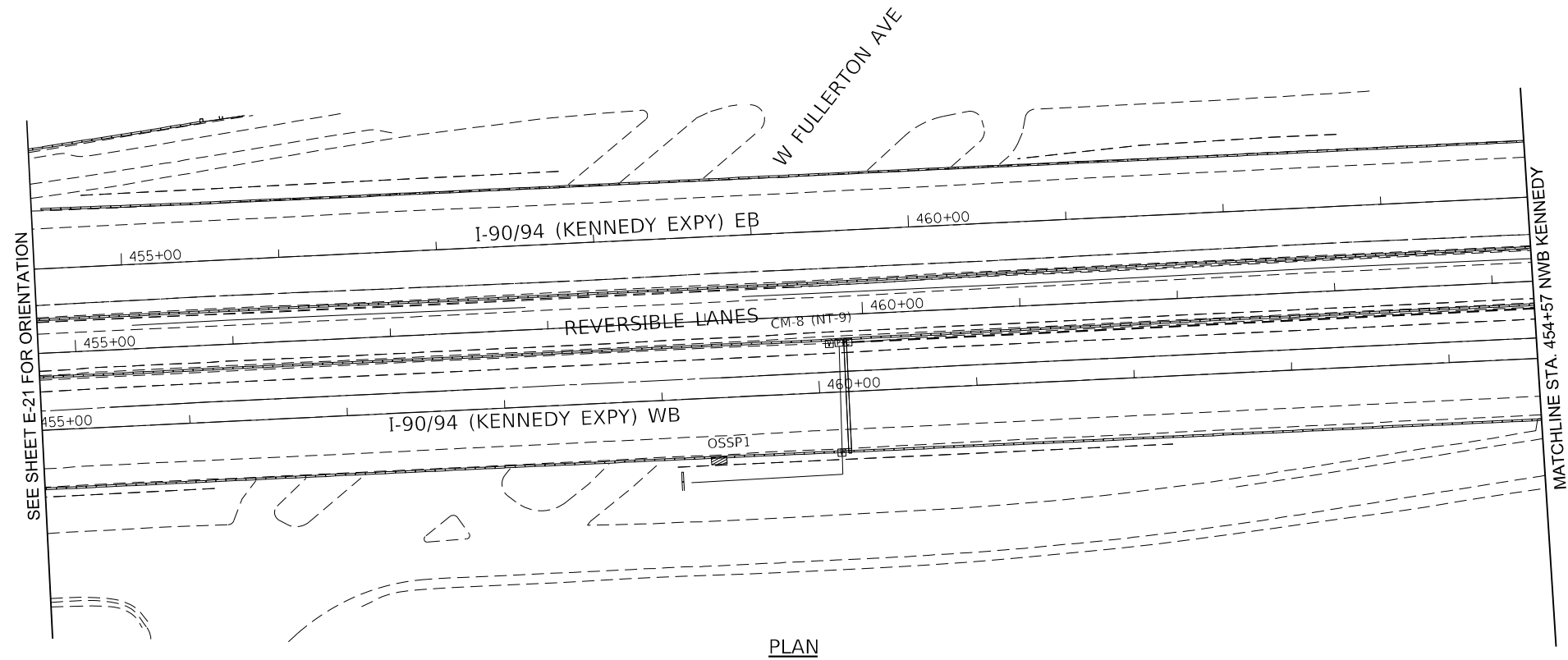
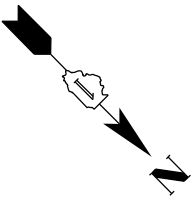
SCALE: 1"=300'

- ABBREVIATIONS:**
- CMx - DMS SIGN
  - ISSPx - DMS CONTROL PANEL
  - ISASx - AUXILIARY SIGN
    - x=1 - "GATE CLOSING"
    - x=2 - "STAY IN YOUR LANE"
    - x=3 - "OPEN/CLOSED"
  - ISCCx - CCTV CAMERA
  - ISx - GATE
  - ISB - RESTRAINING BARRIER
  - ISRPx - ROAD SIDE PANEL
  - ISSCx - ROAD SURFACE CONDITION SENSOR
  - ISVx - CHEVRON SIGN
  - PPxx - PULL BOX
  - JB - JUNCTION BOX

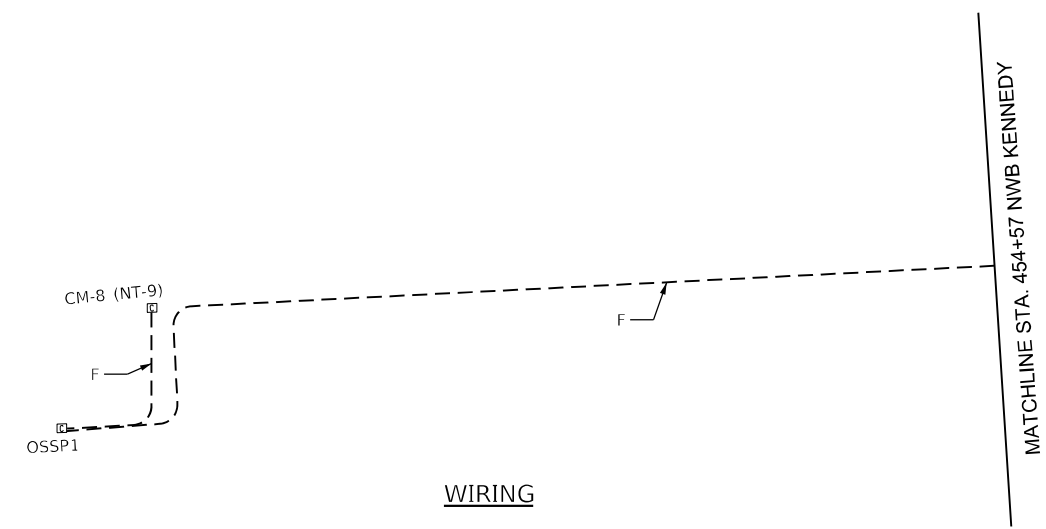


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<b>KNIGHT</b> Engineers & Architects	USER NAME = korabmp	DESIGNED - MCP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL POWER AND CONTROL PLANS</b> <b>SLIP RAMPS ORIENTATION PLAN</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 600.00' / in.	CHECKED - CS	REVISED -					90/94	2012-0081	COOK	268	177
	PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -		SCALE: 1"=300'	SHEET 9	OF 27 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 60746		
											ILLINOIS FED. AID PROJECT	

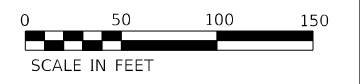


PLAN



WIRING

- NOTES:**
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
  2. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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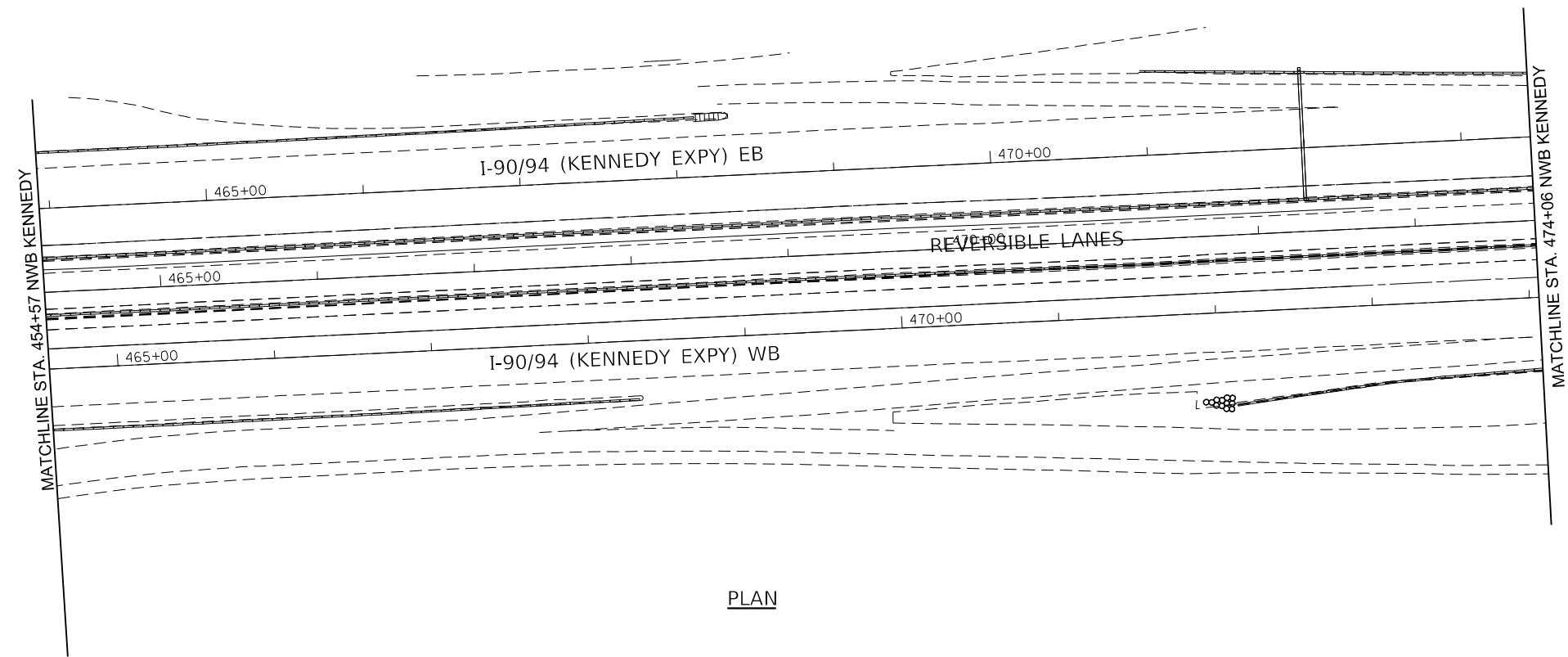
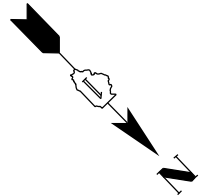
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

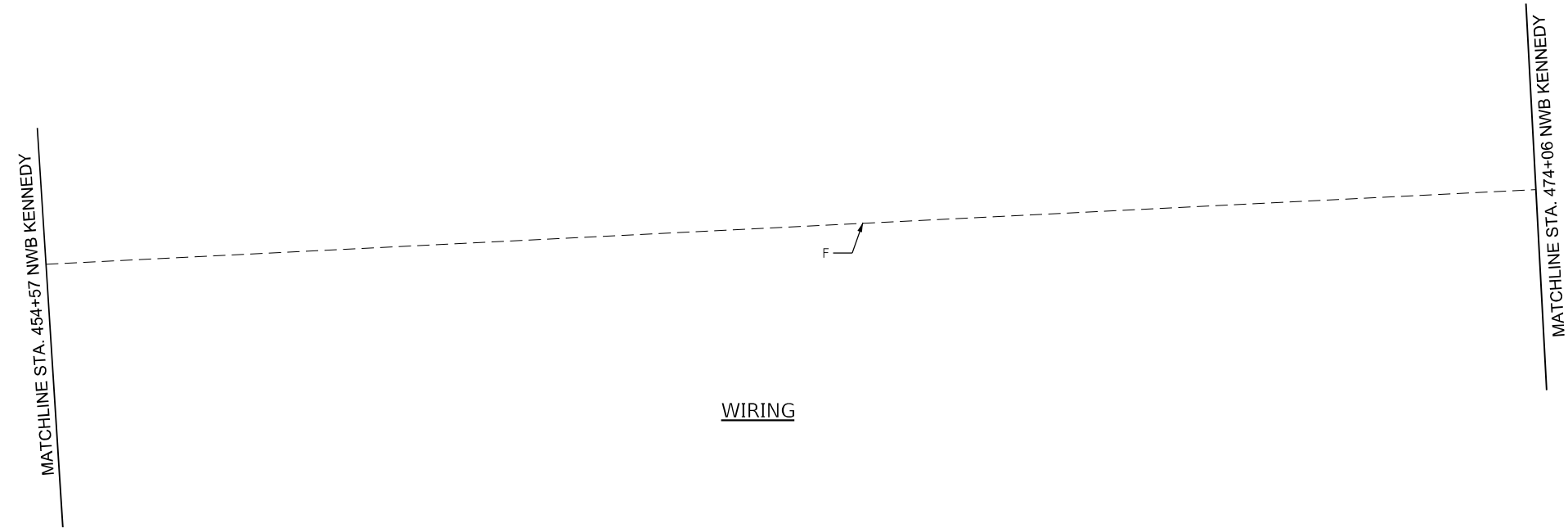
ELECTRICAL POWER AND CONTROL PLANS OUTBOUND SLIP RAMP			
SCALE: 1"=50'	SHEET 10 OF 27 SHEETS	STA. 261+00	TO STA. 270+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	178
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				





PLAN



WIRING

**NOTE:**  
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.



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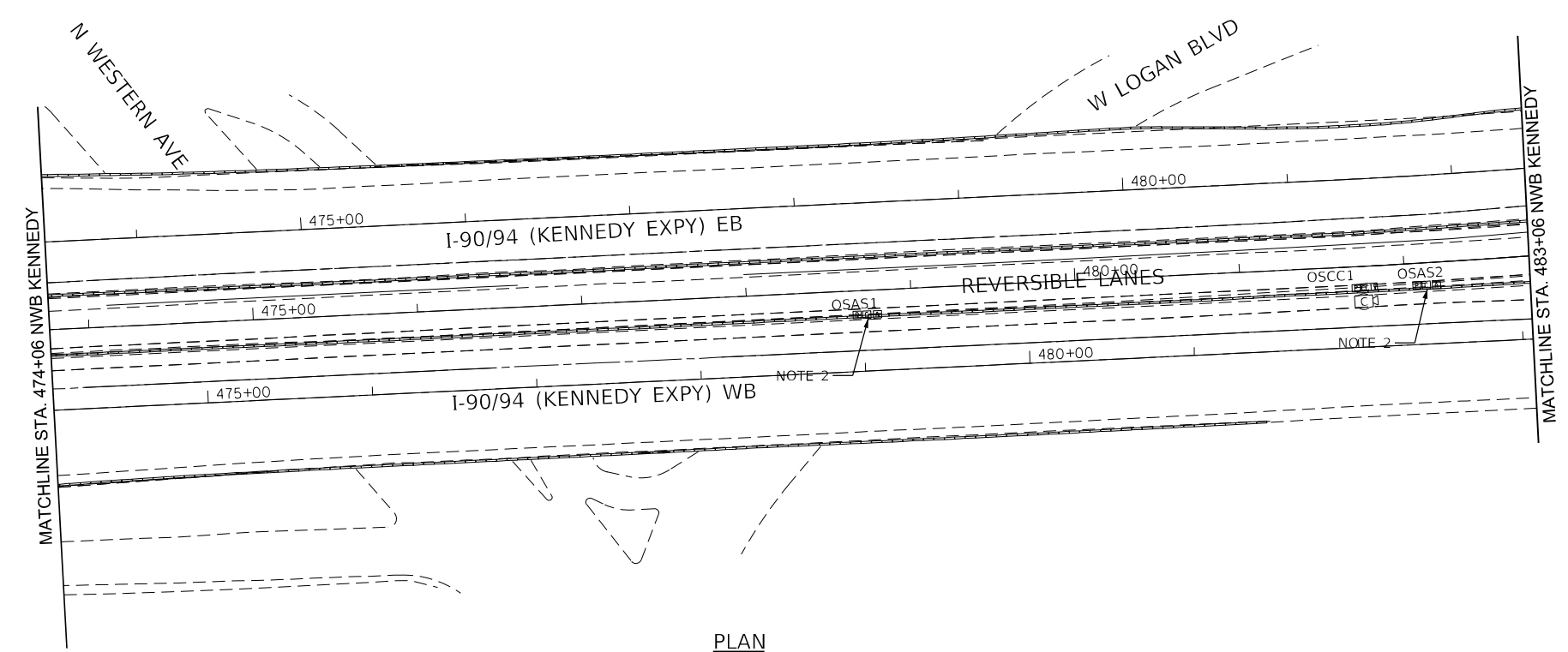
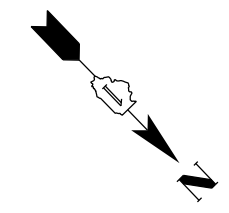
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<b>KNIGHT</b> Engineers & Architects		DRAWN - MB	REVISED -
	PLOT SCALE = 100.00' / in.	CHECKED - CS	REVISED -
	PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

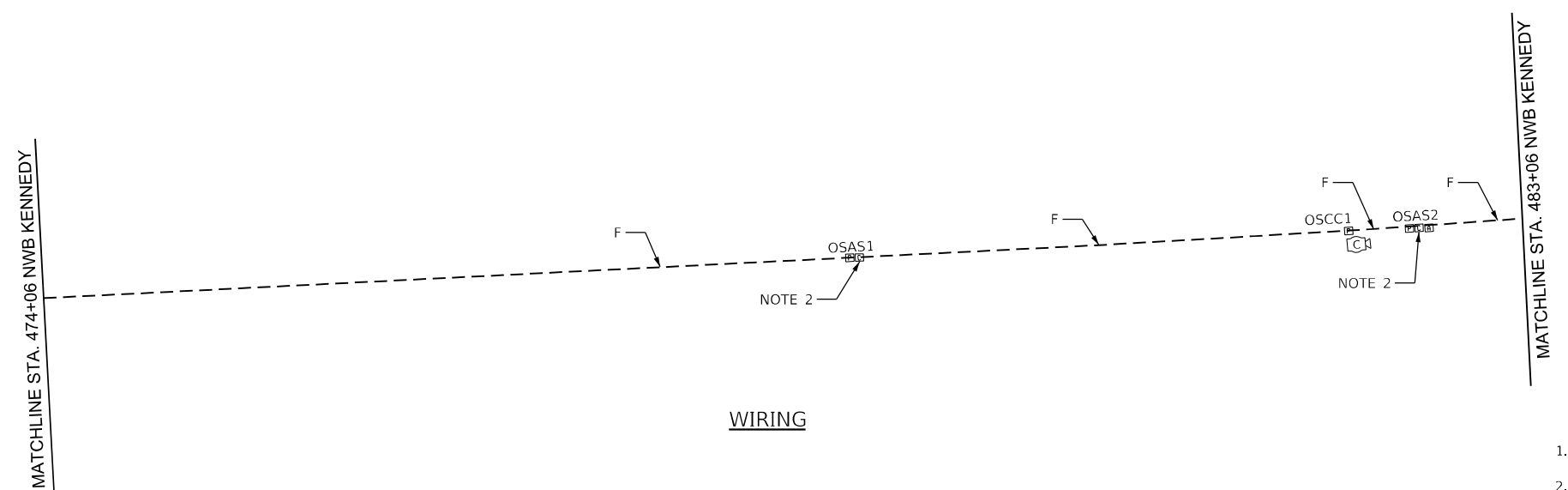
**ELECTRICAL POWER AND CONTROL PLANS  
OUTBOUND SLIP RAMP**

SCALE: 1"=50'    SHEET 11 OF 27 SHEETS    STA. 270+50 TO STA. 280+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	179
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				



PLAN



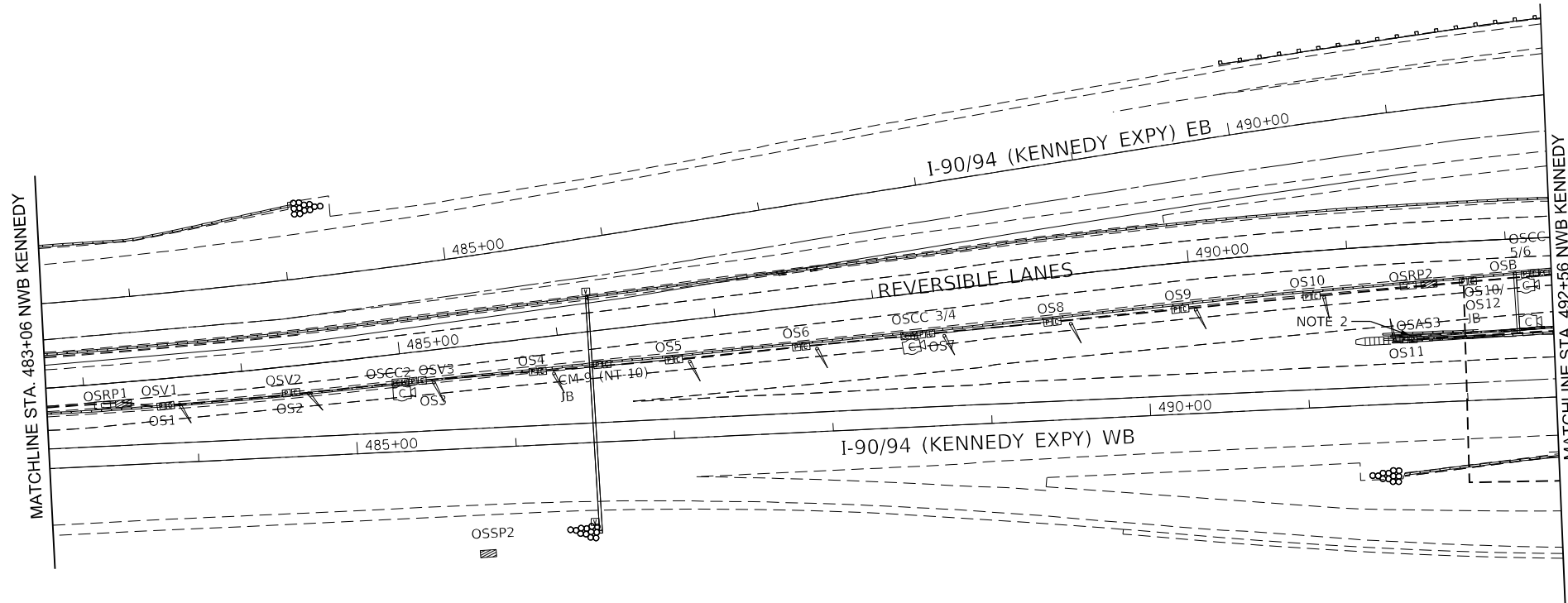
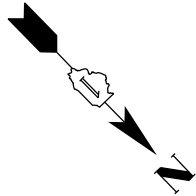
WIRING

- NOTES:**
- SEE DRAWING E-02 FOR WIRING SCHEDULE.
  - AUXILIARY SIGNS "OSAS1" AND "OSAS2" CONTROL SHALL BE SWITCHED FROM SWING GATE "OS1". USE EXISTING CONTROL WIRING AND TERMINATE IT AT "OS1".
  - SEE SINGLE LINE ON PLANS E-05 AND E-06 FOR AUXILIARY SIGNS TO BE REPLACED.
  - CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.

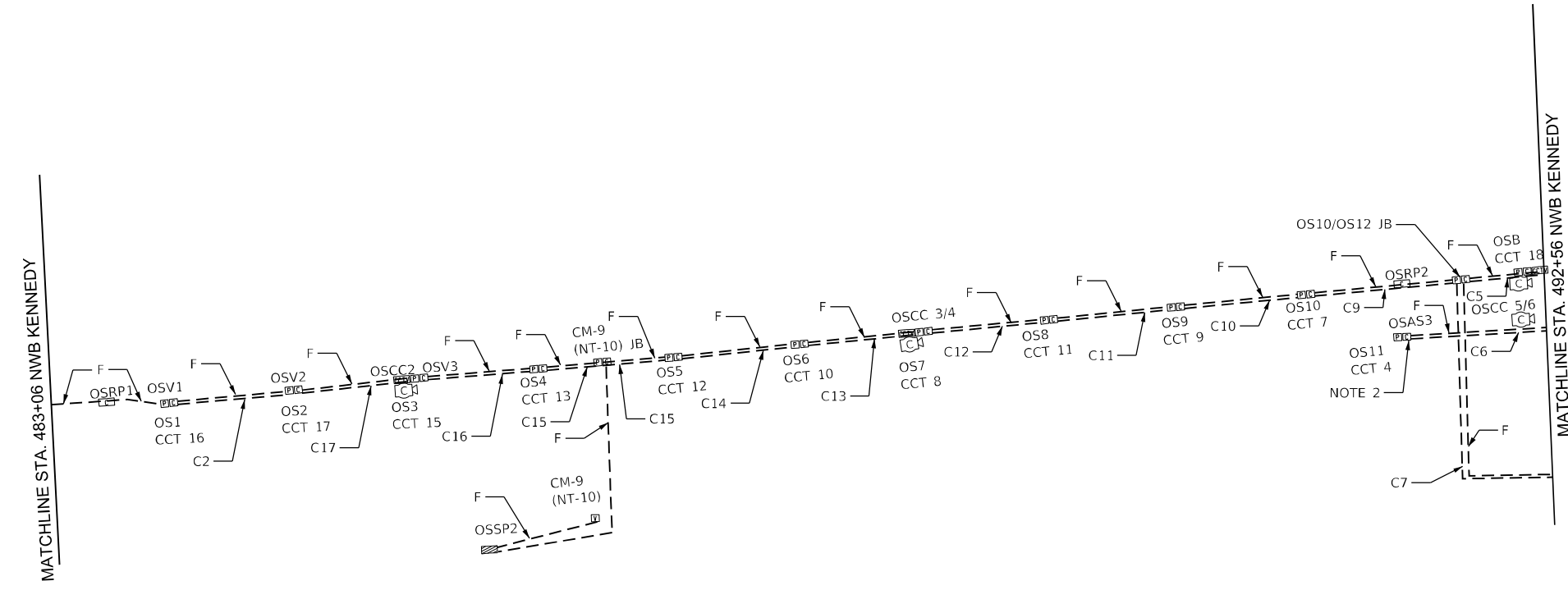


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	PLOT SCALE = 100.00' / in.	CHECKED - CS	REVISED -		DATE - 1/27/2022	SCALE: 1"=50'	SHEET 12 OF 27 SHEETS	STA. 280+00 TO STA. 289+00	90/94	2012-0081	COOK	268
PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -	REVISED -				CONTRACT NO. 60746		ILLINOIS FED. AID PROJECT			

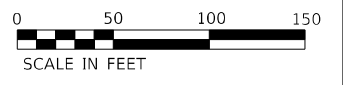


PLAN



WIRING

- NOTES:
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
  2. NEW AUXILIARY SIGN "OSAS3" SHALL BE SWITCHED FROM BARRIER "OSB".
  3. SEE SINGLE LINE ON PLANS E-05 AND E-06 FOR AUXILIARY SIGNS TO BE REPLACED.
  4. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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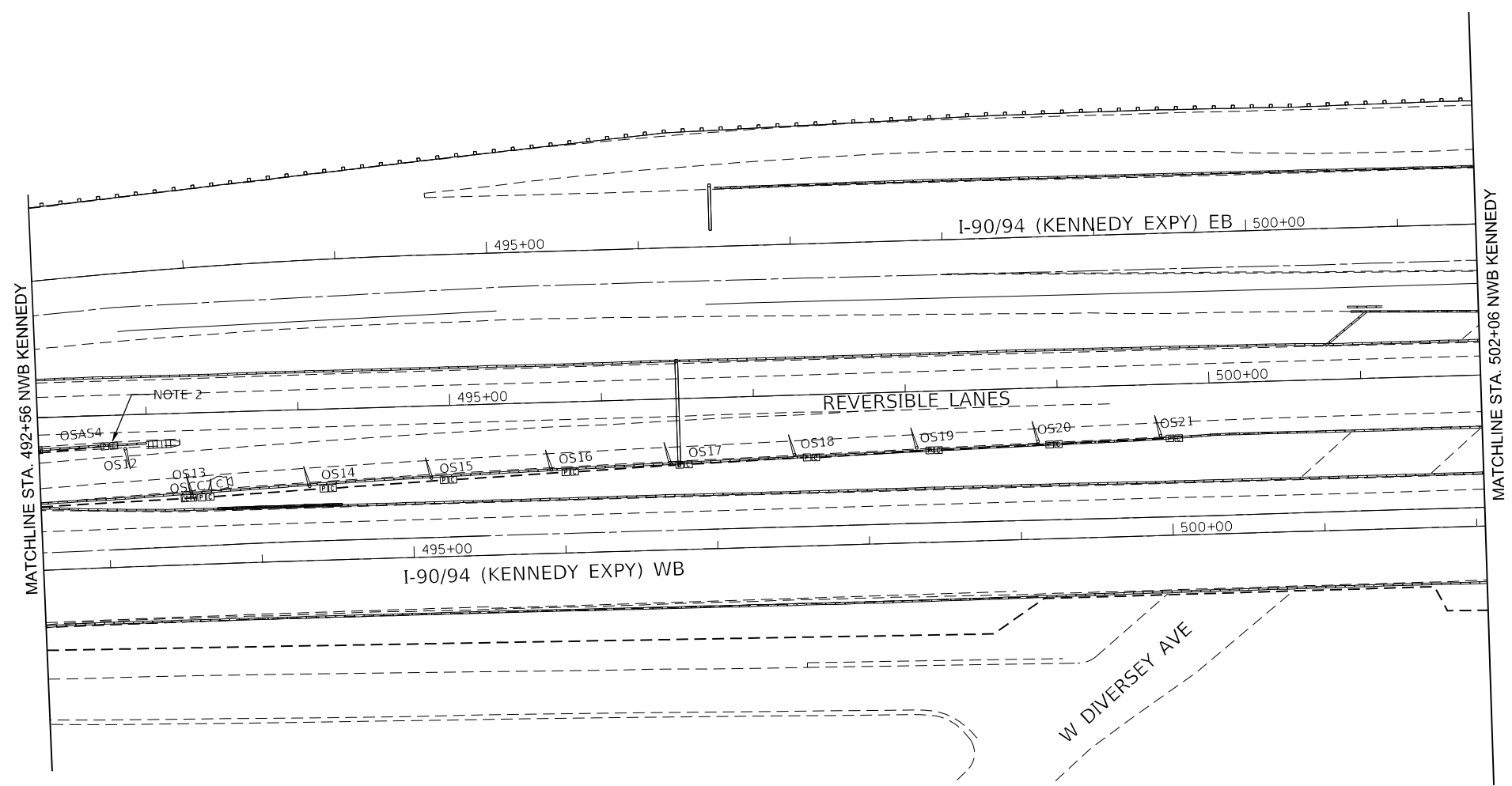
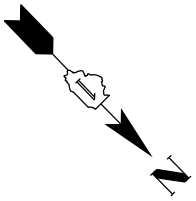


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PLOT DATE = 3/22/2022		DATE - 1/27/2022	REVISED -

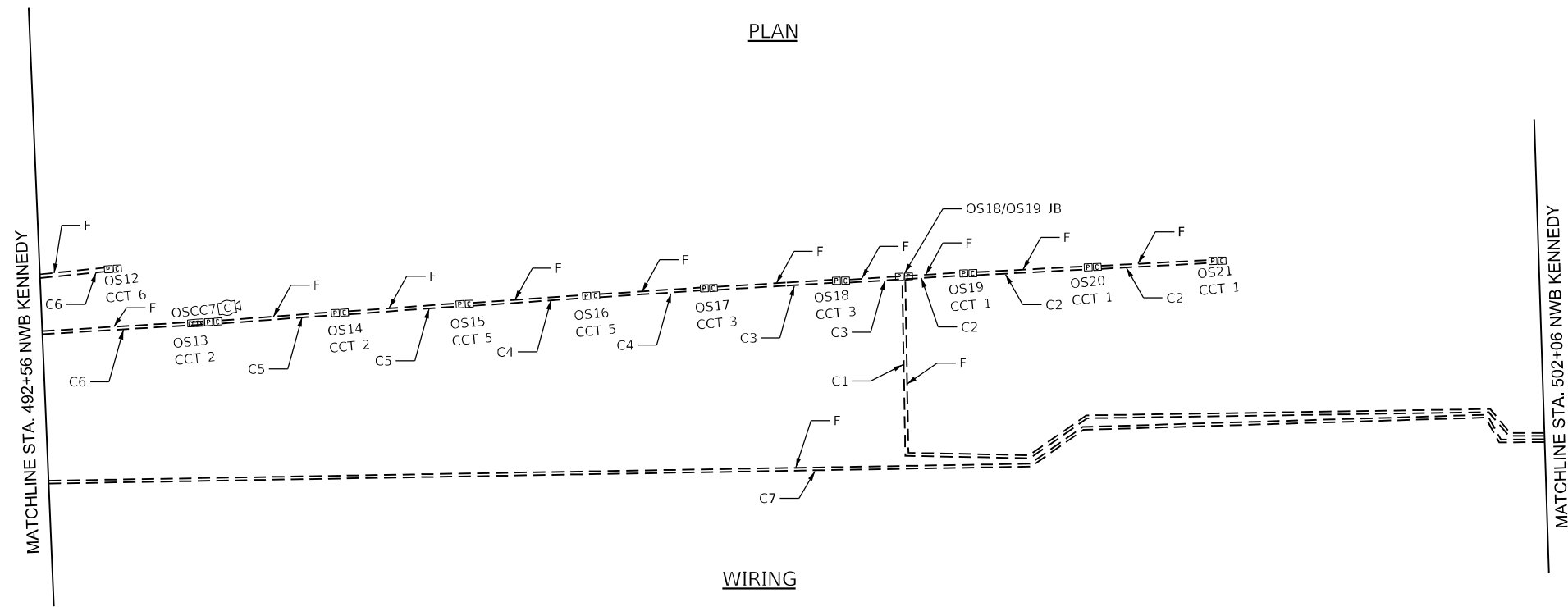
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ELECTRICAL POWER AND CONTROL PLANS OUTBOUND SLIP RAMP			
SCALE: 1"=50'	SHEET 13	OF 27 SHEETS	STA. 289+00 TO STA. 298+50

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	181
CONTRACT NO. 60T46				
ILLINOIS FED. AID PROJECT				



PLAN



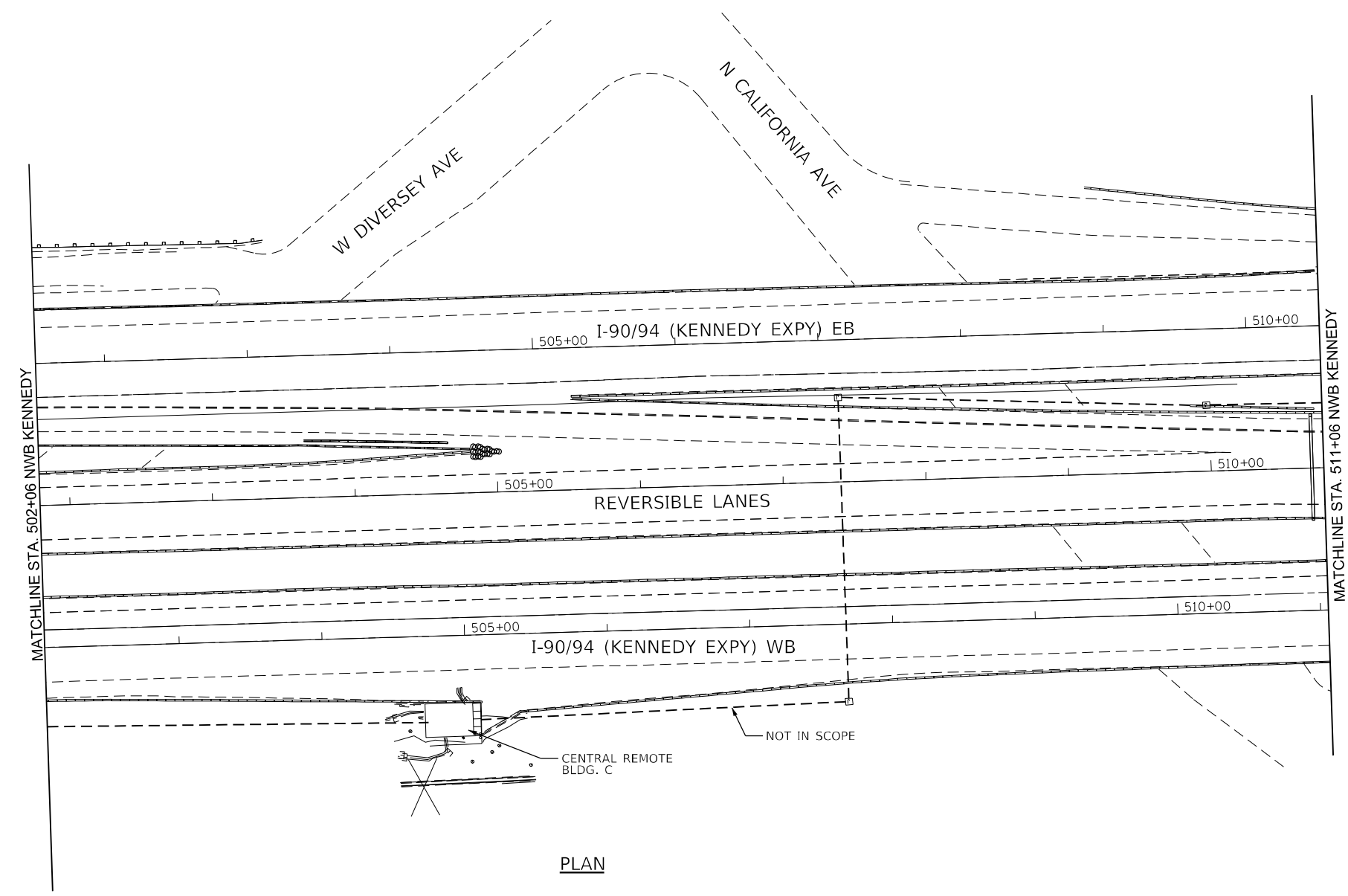
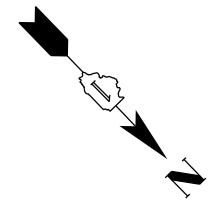
WIRING

- NOTES:**
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
  2. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.

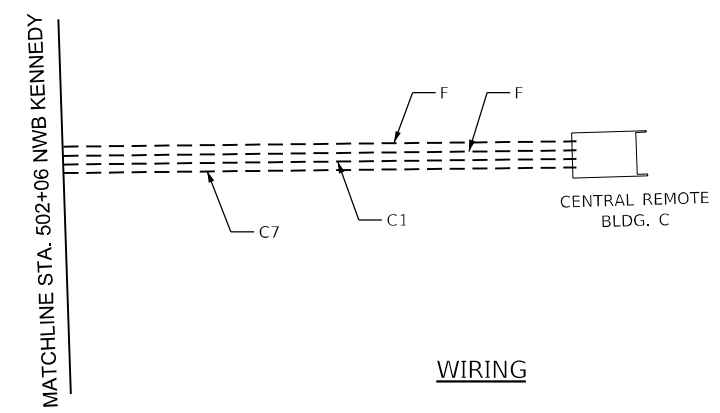


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<b>KNIGHT</b> Engineers & Architects	USER NAME = korabmp	DESIGNED - MCP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL POWER AND CONTROL PLANS</b> <b>OUTBOUND SLIP RAMP</b>			P.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 182
	PLOT SCALE = 100.00' / in.	CHECKED - CS	REVISED -		SCALE: 1"=50'	SHEET 14 OF 27 SHEETS	STA. 298+50 TO STA. 308+00	CONTRACT NO. 60T46		ILLINOIS FED. AID PROJECT		
PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -	REVISED -	E-26								

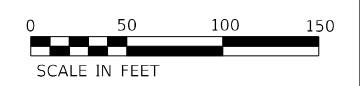


PLAN



WIRING

NOTE:  
SEE DRAWING E-02 FOR WIRING SCHEDULE.



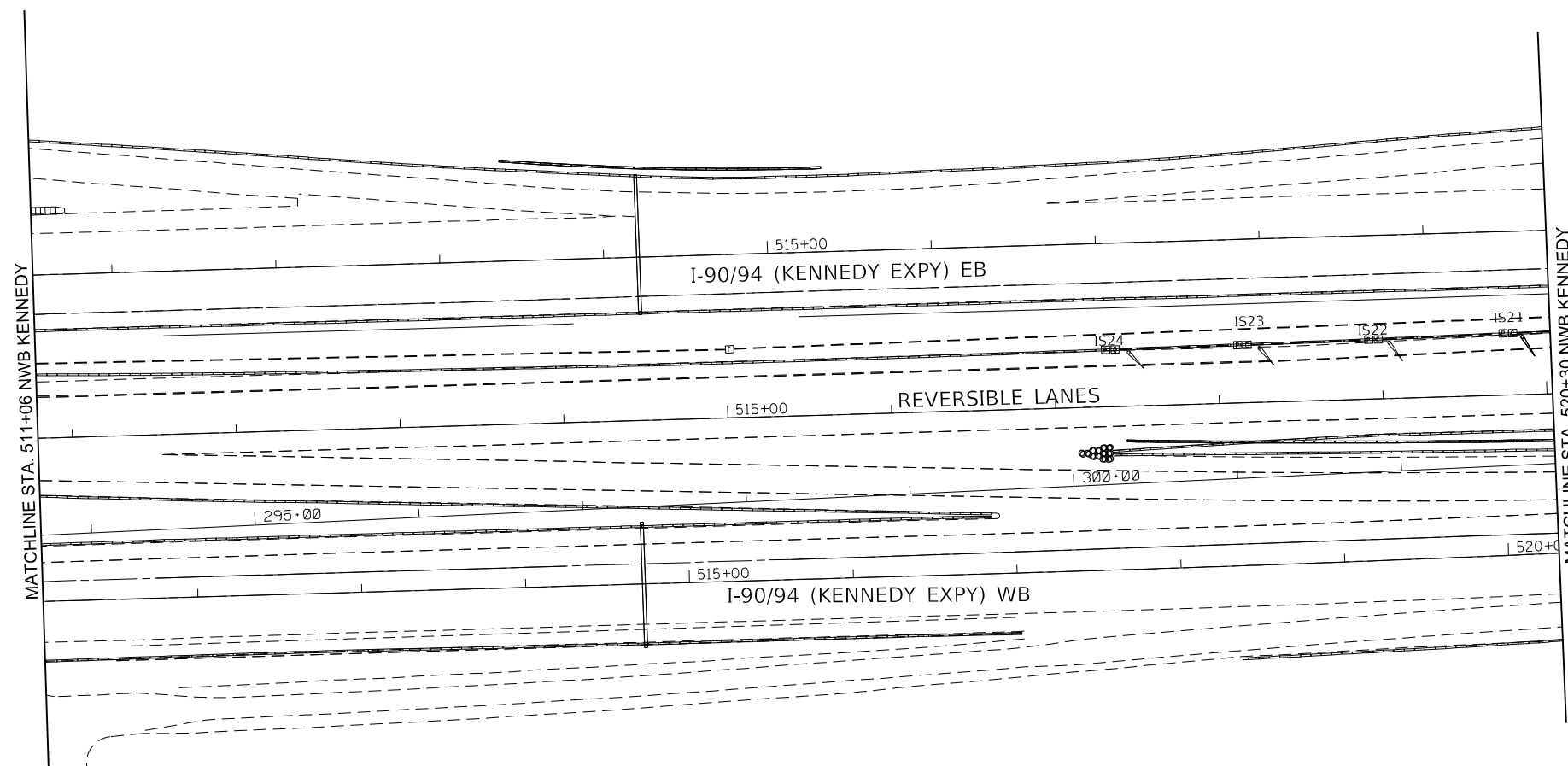
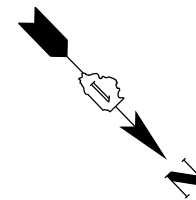
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<b>KNIGHT</b> Engineers & Architects		DRAWN - MB	REVISED -
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	PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -

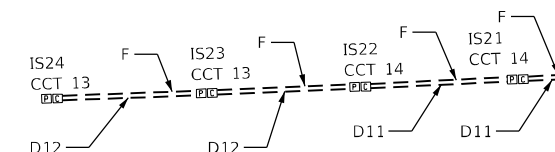
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ELECTRICAL POWER AND CONTROL PLANS OUTBOUND SLIP RAMP			
SCALE: 1"=50'	SHEET 15 OF 27 SHEETS	STA. 308+00	TO STA. 317_00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	183
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				



PLAN



WIRING

MATCHLINE STA. 520+30 NWB KENNEDY

**NOTES:**

1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
2. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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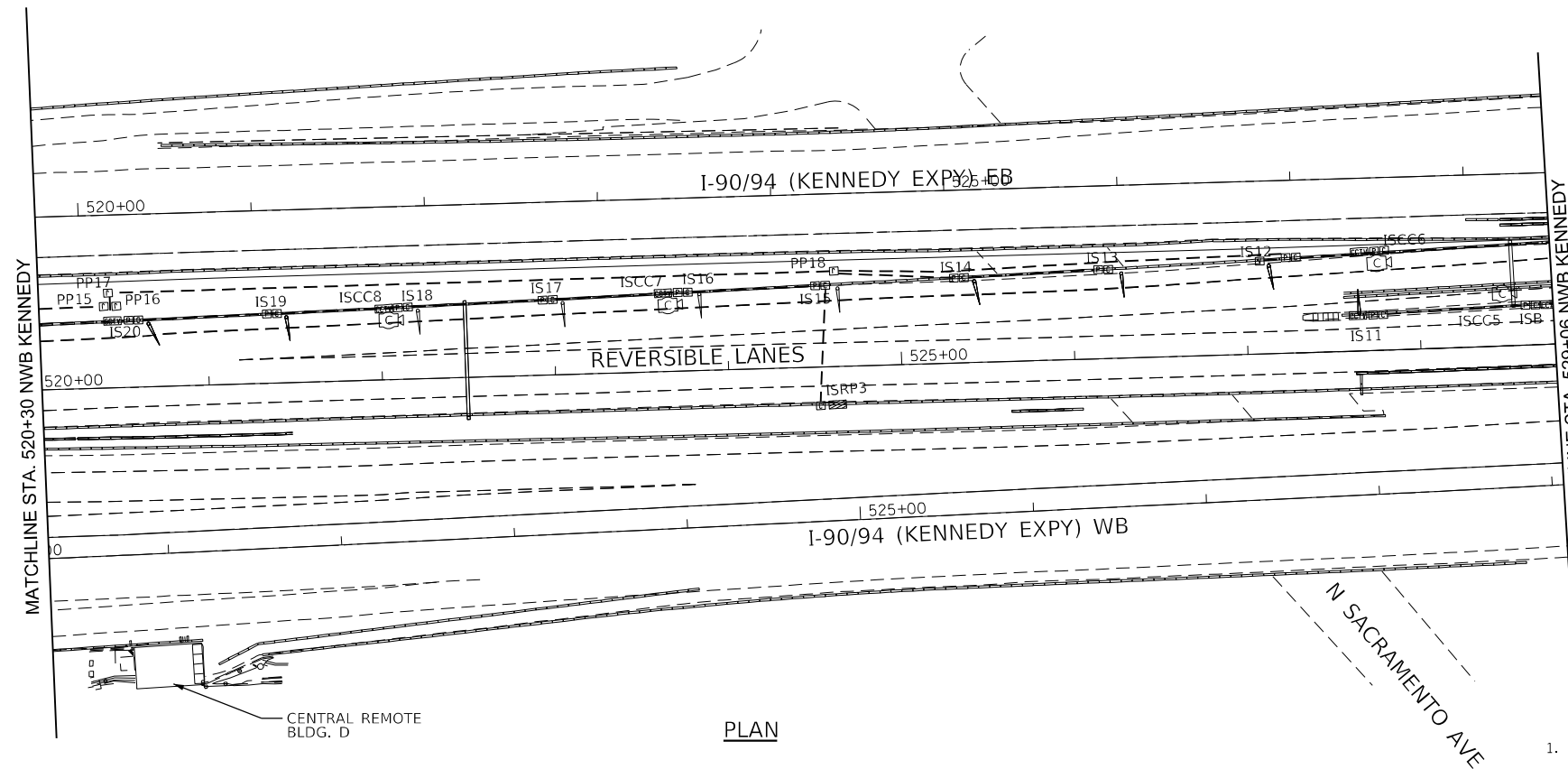
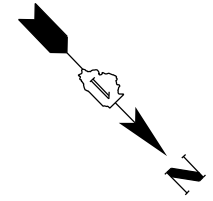
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	PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL POWER AND CONTROL PLANS  
INBOUND SLIP RAMP**

SCALE: 1"=50' SHEET 16 OF 27 SHEETS STA. 317+00 TO STA. 326+25

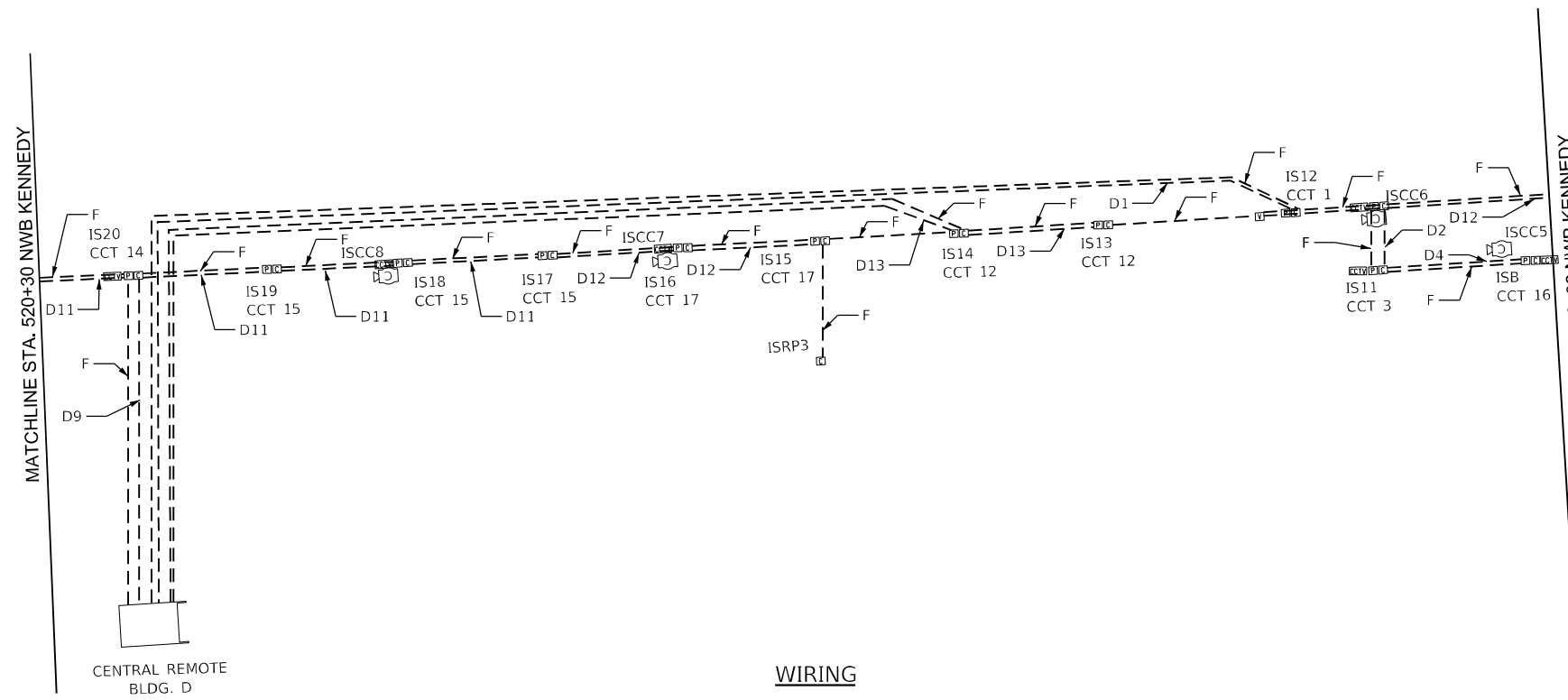
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	184
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				



PLAN

**NOTES:**

1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
2. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.

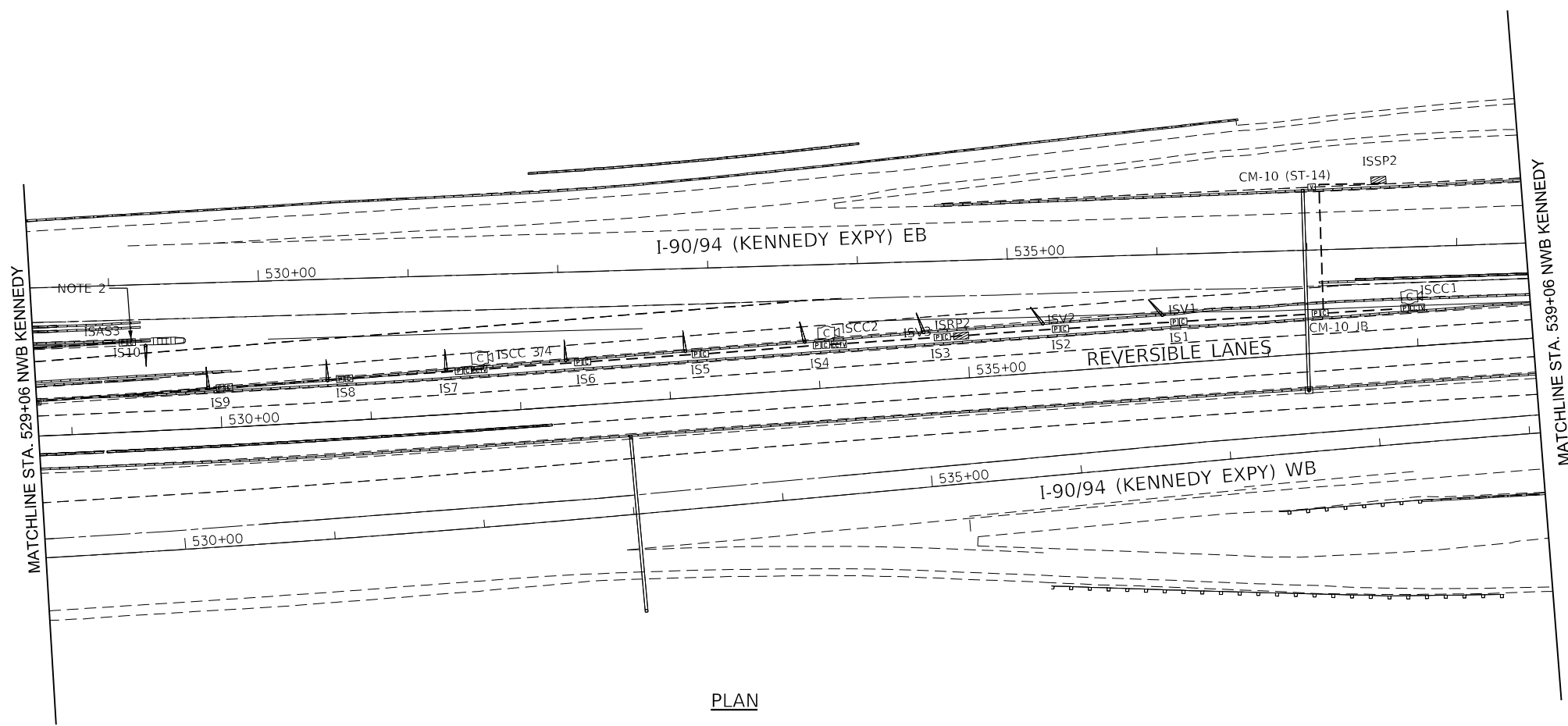
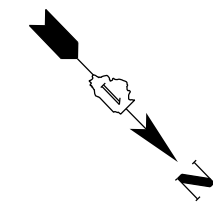


WIRING

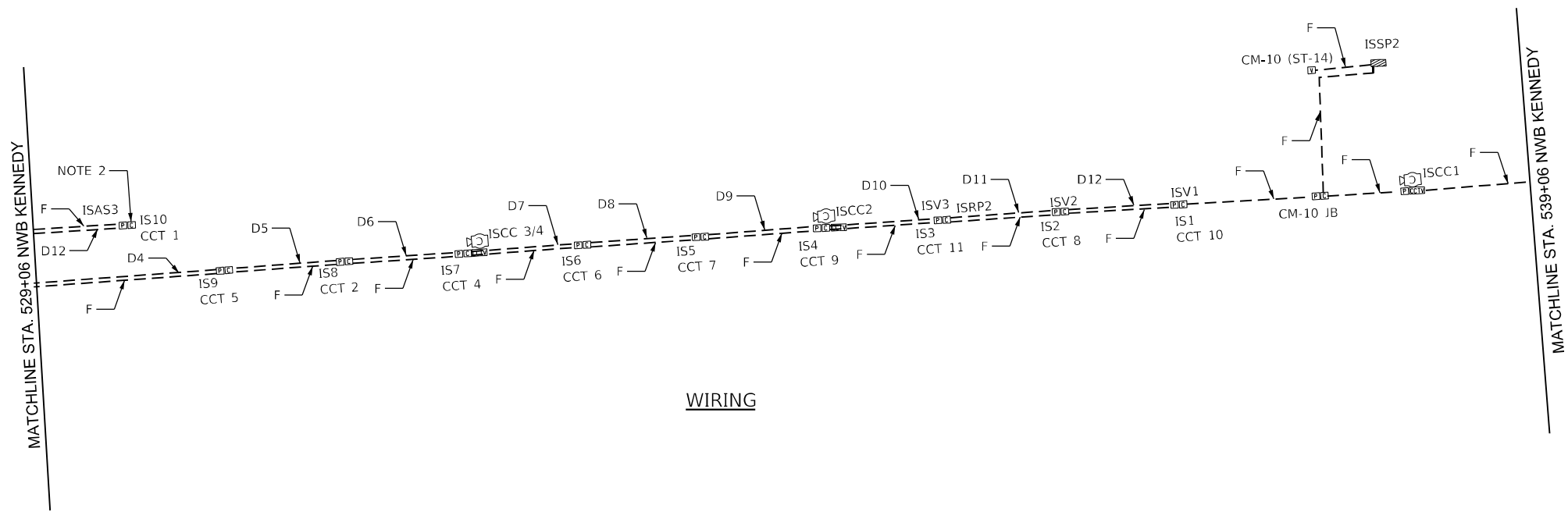


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	USER NAME = korabmp	DESIGNED - MCP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL POWER AND CONTROL PLANS INBOUND SLIP RAMP</b>			F.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 185
	PLOT SCALE = 100.00' / in.	CHECKED - CS	REVISED -		SCALE: 1"=50'	SHEET 17	OF 27 SHEETS	STA. 326+25	TO STA. 335_00	CONTRACT NO. 60T46		
PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							
E-29												



PLAN



WIRING

NOTES:

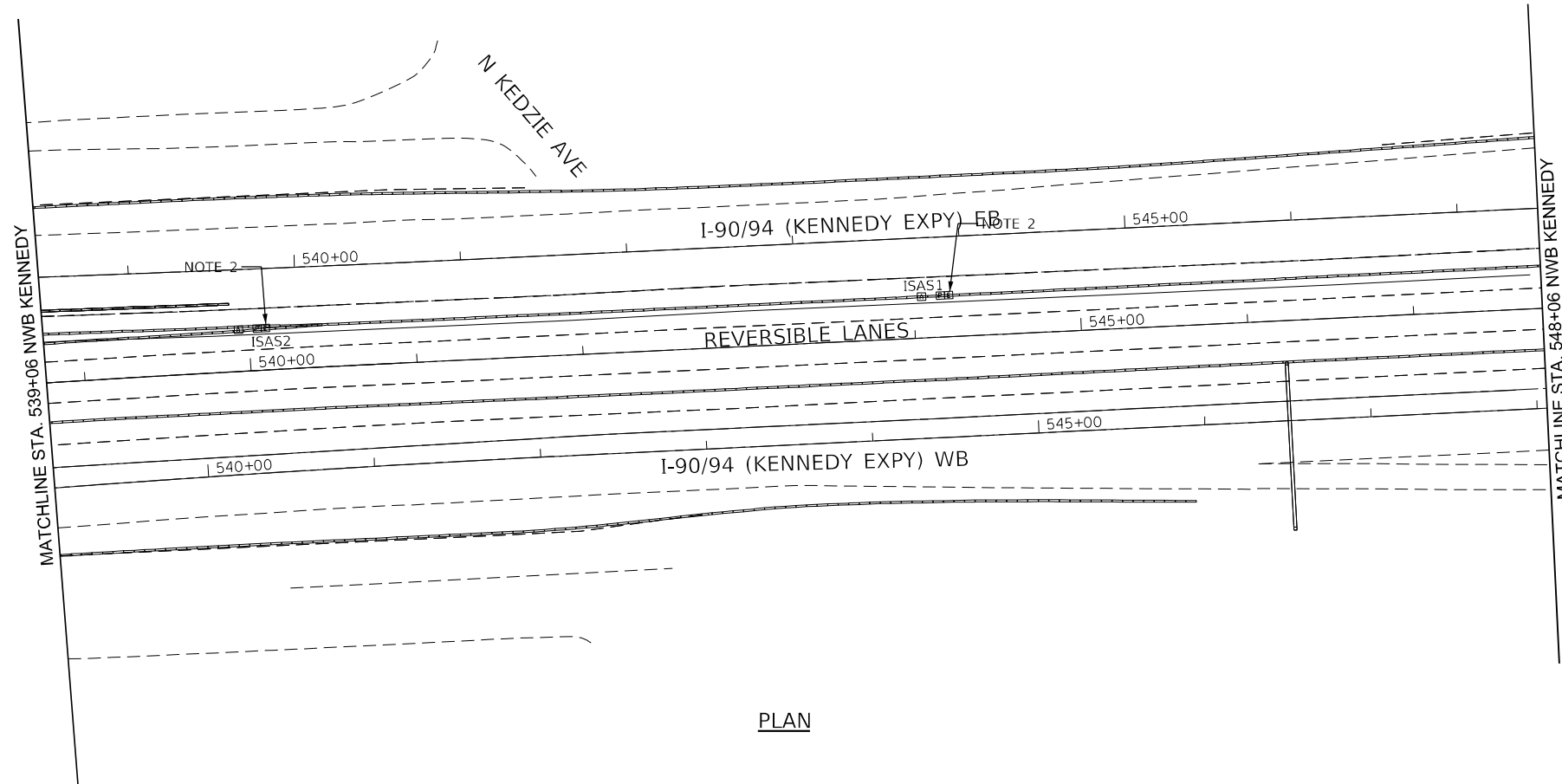
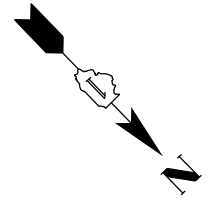
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
2. NEW AUXILIARY SIGN "ISAS3" SHALL BE SWITCHED FROM BARRIER "ISB".
3. SEE SINGLE LINE ON PLANS E-07 AND E-08 FOR AUXILIARY SIGNS TO BE REPLACED.
4. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



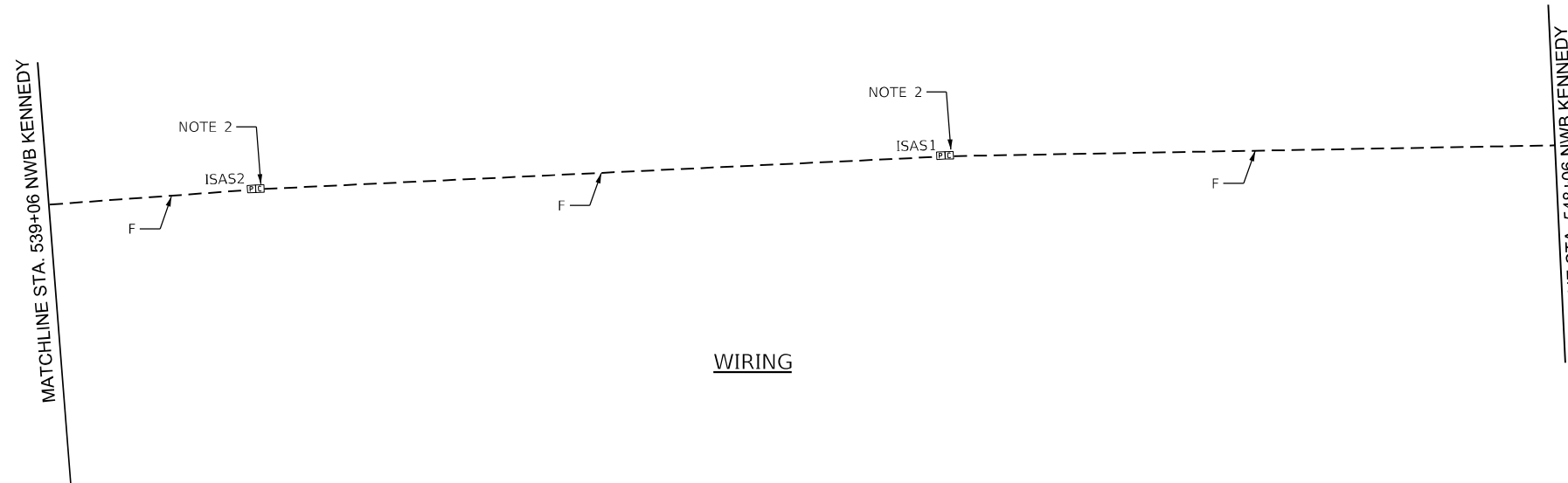
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	USER NAME = korabmp	DESIGNED - MCP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL POWER AND CONTROL PLANS INBOUND SLIP RAMP</b>			F.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 186
	PLOT SCALE = 100.00' / in.	CHECKED - CS	REVISED -		SCALE: 1"=50'	SHEET 18 OF 27 SHEETS	STA. 335+00 TO STA. 345+00	CONTRACT NO. 60T46		ILLINOIS FED. AID PROJECT		
PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -	REVISED -	E-30								





PLAN



WIRING

**NOTES:**

1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
2. AUXILIARY SIGNS "ISAS1" AND "ISAS2" CONTROLS SHALL BE SWITCHED FROM SWING GATE "IS1". USE EXISTING CONTROL WIRING AND TERMINATE IT AT "IS1".
3. SEE SINGLE LINE ON PLANS E-07 AND E-08 FOR AUXILIARY SIGNS TO BE REPLACED.
4. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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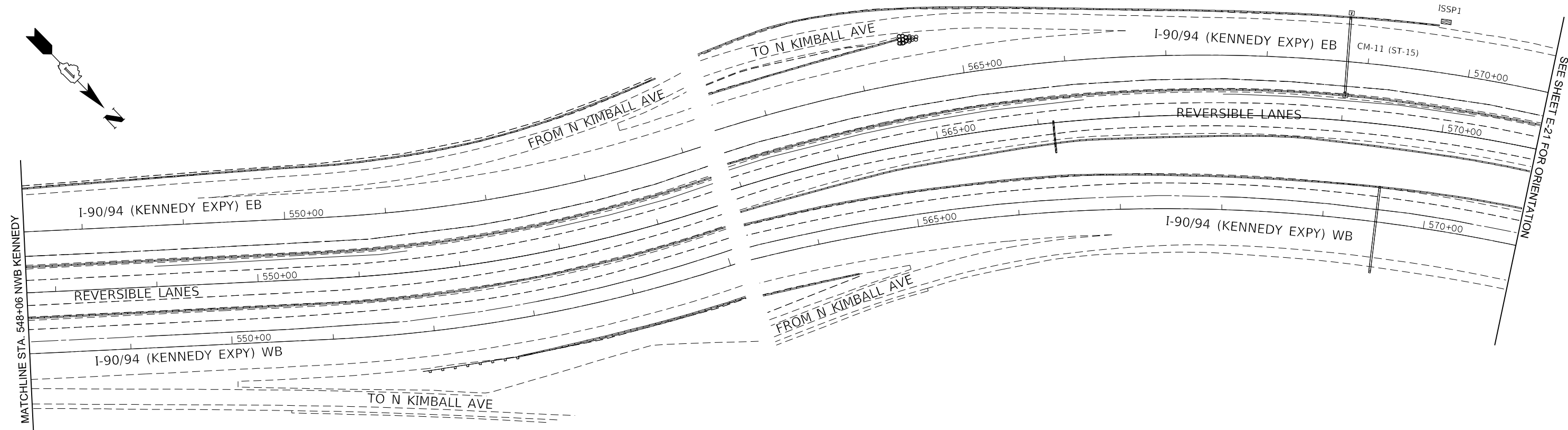
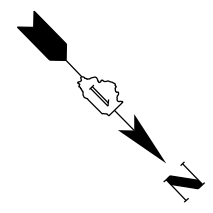
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<b>KNIGHT</b> Engineers & Architects		DRAWN - MB	REVISED -
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	PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

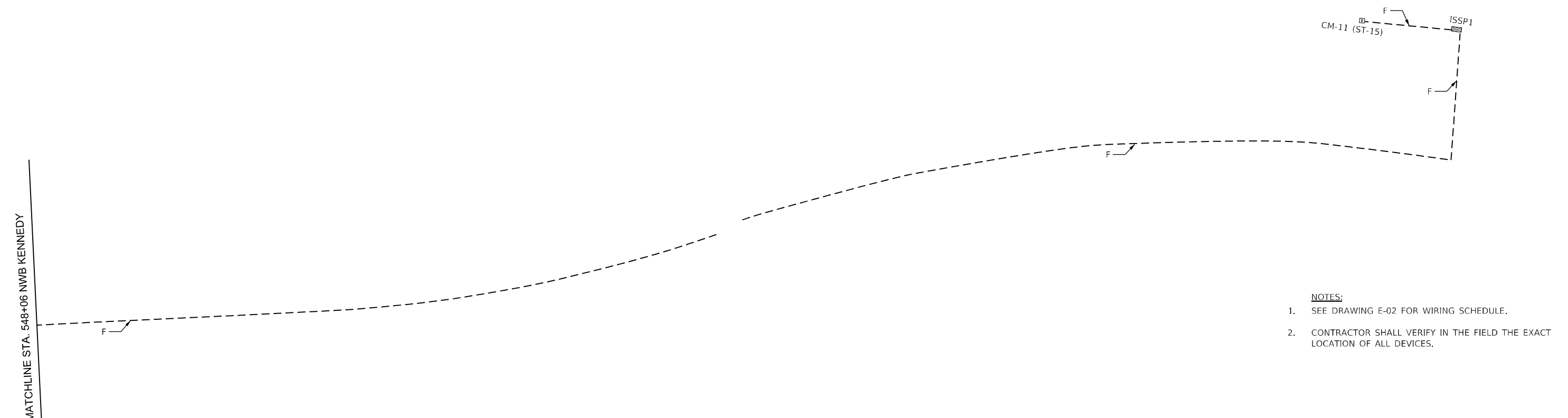
**ELECTRICAL POWER AND CONTROL PLANS  
INBOUND SLIP RAMP**

SCALE: 1"=50'    SHEET 19 OF 27 SHEETS    STA. 345+00 TO STA. 354+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	187
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				



PLAN



WIRING

- NOTES:**
- SEE DRAWING E-02 FOR WIRING SCHEDULE.
  - CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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	PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

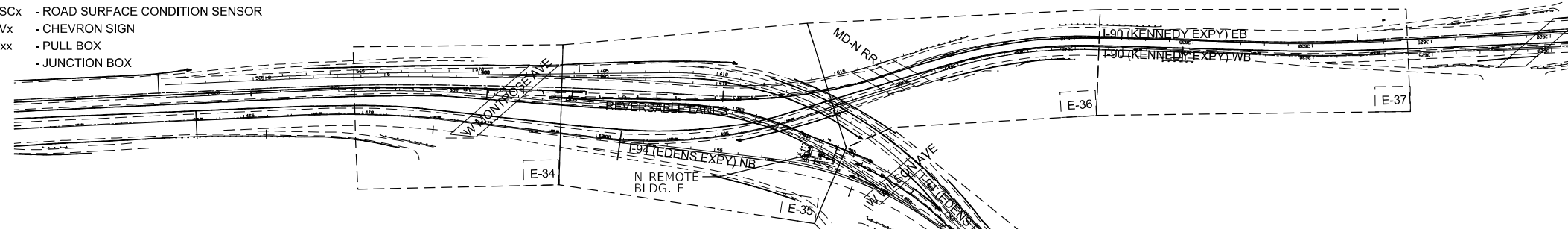
<b>ELECTRICAL POWER AND CONTROL PLANS INBOUND SLIP RAMP</b>			
SCALE: 1"=50'	SHEET 20 OF 27 SHEETS	STA. 354+00 TO STA. 377+00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	188
CONTRACT NO. 60T46			ILLINOIS FED. AID PROJECT	

- ABBREVIATIONS:**
- CM-x - DMS SIGN
  - IWSPx - DMS CONTROL PANEL
  - IWASx - AUXILIARY SIGN
    - x=1 - "GATE CLOSING"
    - x=2 - "STAY IN YOUR LANE"
    - x=3 - "OPEN/CLOSED"
  - IWCCx - CCTV CAMERA
  - IWx - GATE
  - IWB - RESTRAINING BARRIER
  - IWRPx - ROAD SIDE PANEL
  - IWSCx - ROAD SURFACE CONDITION SENSOR
  - IWVx - CHEVRON SIGN
  - PPxx - PULL BOX
  - JB - JUNCTION BOX

## INBOUND KENNEDY WEST LEG

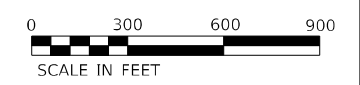
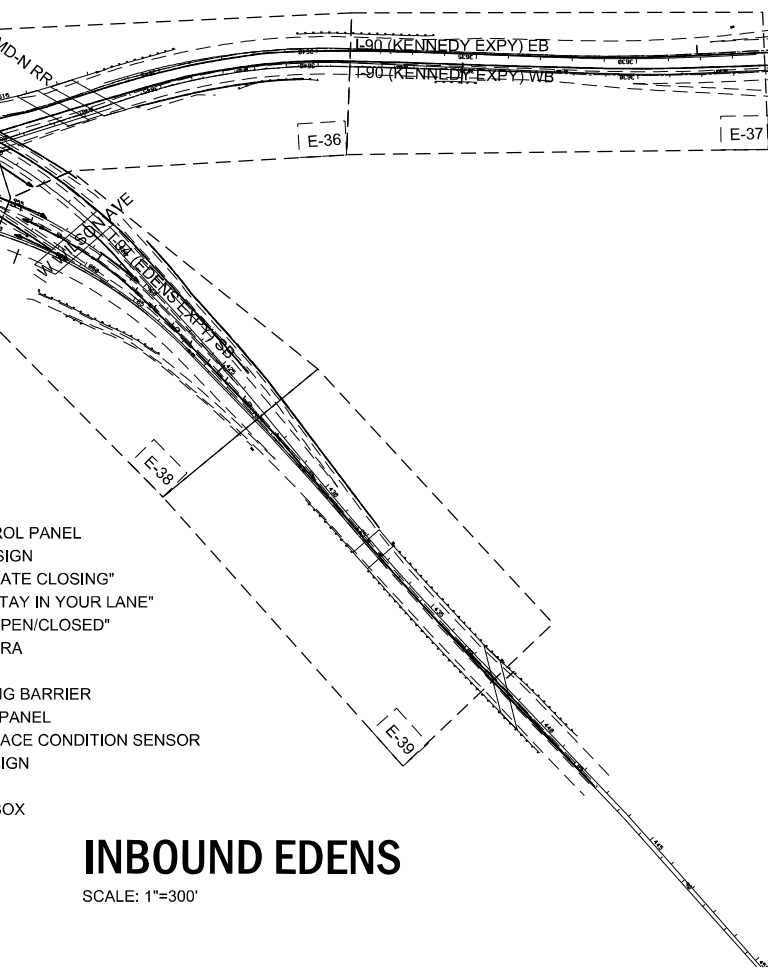
SCALE: 1"=300'



- ABBREVIATIONS:**
- CM-x - DMS SIGN
  - IESPx - DMS CONTROL PANEL
  - IEASx - AUXILIARY SIGN
    - x=1 - "GATE CLOSING"
    - x=2 - "STAY IN YOUR LANE"
    - x=3 - "OPEN/CLOSED"
  - IECCx - CCTV CAMERA
  - IEx - GATE
  - IEB - RESTRAINING BARRIER
  - IERPx - ROAD SIDE PANEL
  - IESCx - ROAD SURFACE CONDITION SENSOR
  - IEVx - CHEVRON SIGN
  - PPxx - PULL BOX
  - JB - JUNCTION BOX

## INBOUND EDENS

SCALE: 1"=300'



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<b>KNIGHT</b> Engineers & Architects		DRAWN - MB	REVISED -
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	PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -

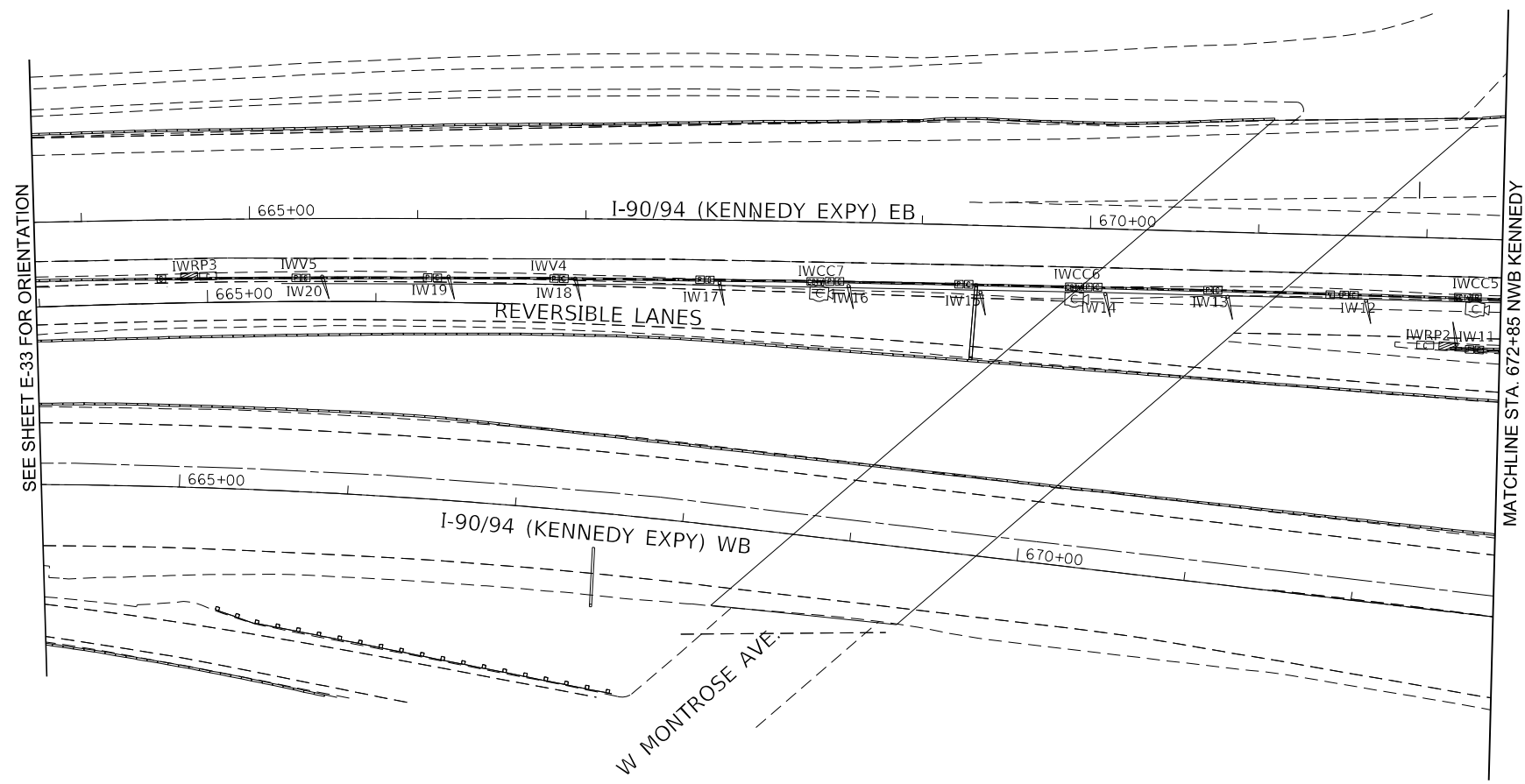
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ELECTRICAL POWER AND CONTROL PLANS  
EDENS/KENNEDY JUNCTION ORIENTATION PLAN

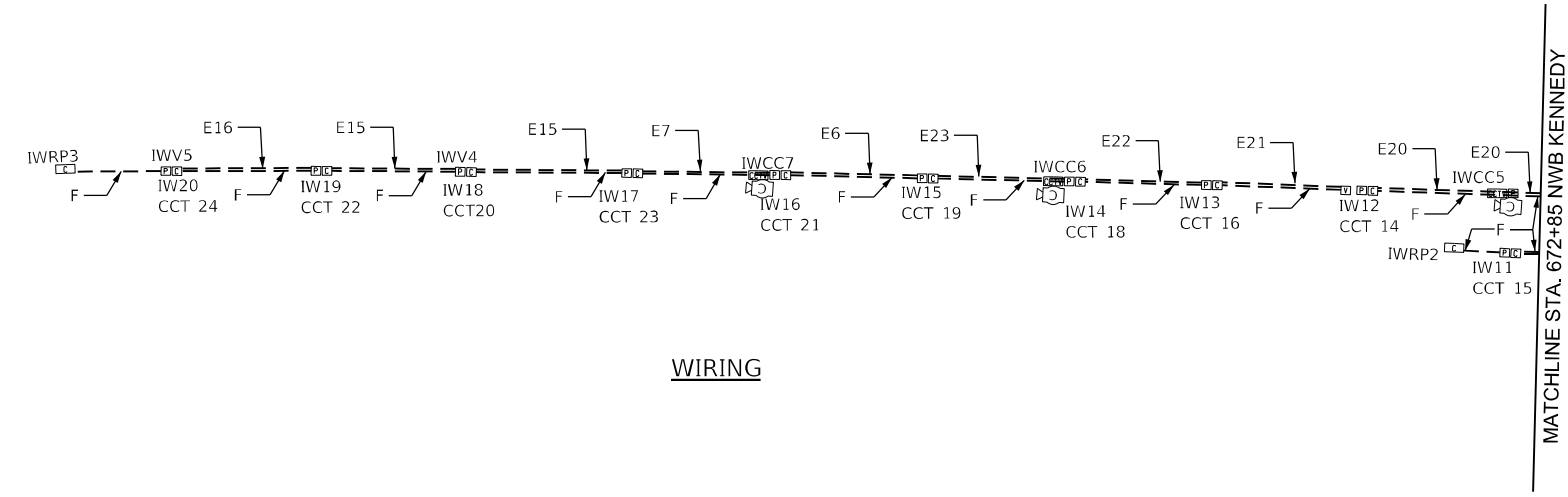
SCALE: 1"=300' SHEET 21 OF 27 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	189
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				

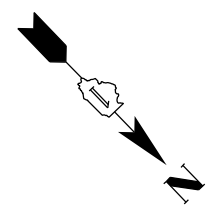
E-33



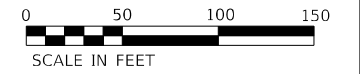
PLAN



WIRING

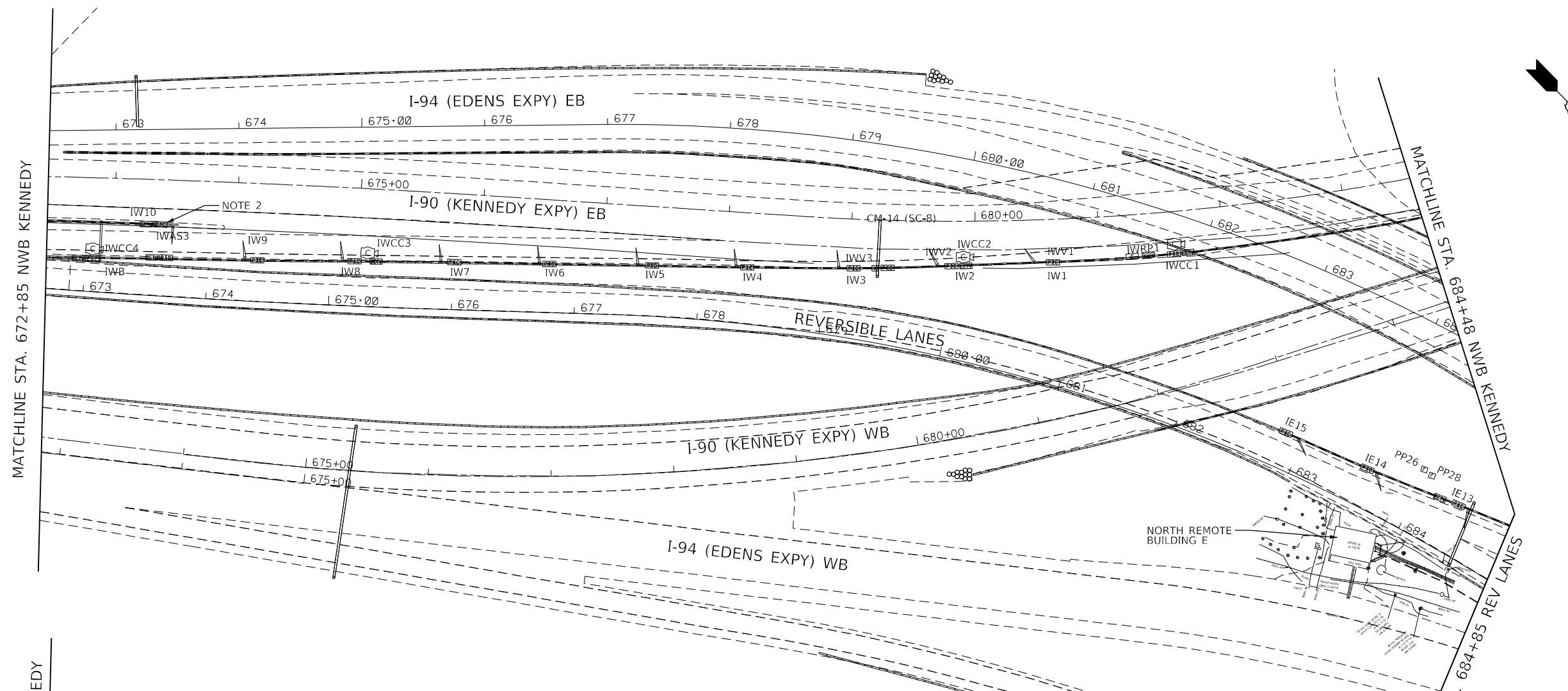


- NOTES:
- SEE DRAWING E-02 FOR WIRING SCHEDULE.
  - CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.

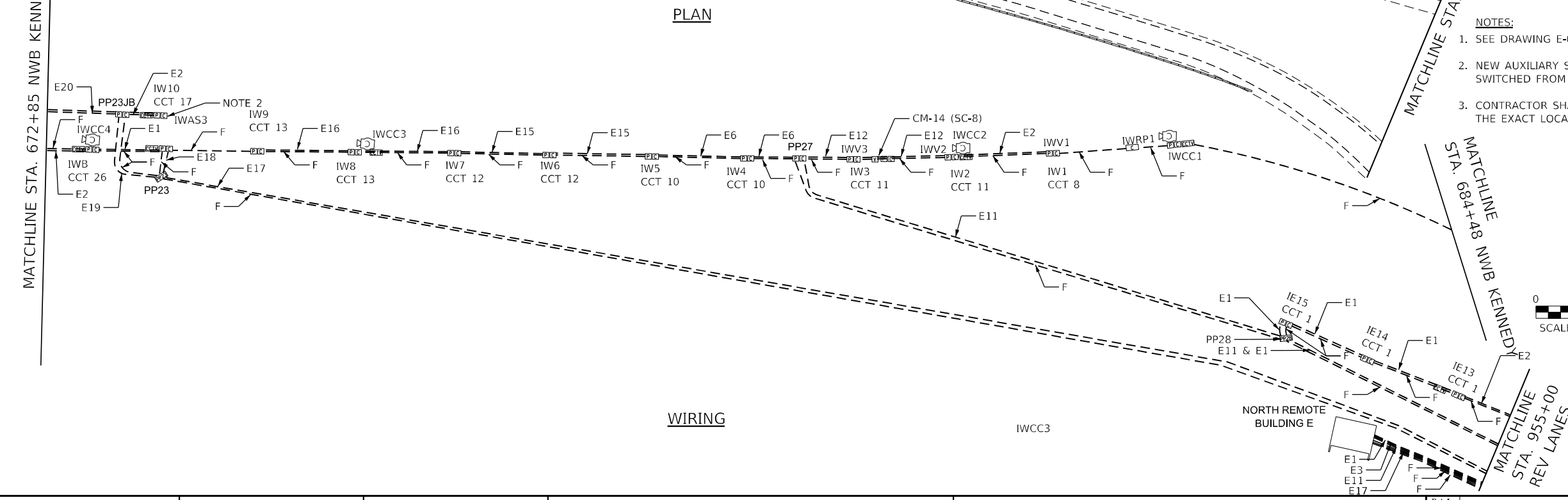


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<b>KNIGHT</b> Engineers & Architects	USER NAME = koramp	DESIGNED - MCP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL POWER AND CONTROL PLANS</b> <b>INBOUND KENNEDY</b>			P.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 190
	PLOT SCALE = 100.00' / in.	CHECKED - CS	REVISED -		SCALE: 1"=50'	SHEET 22 OF 27 SHEETS	STA. 565+00 TO STA. 603+50	CONTRACT NO. 60T46		ILLINOIS FED. AID PROJECT		
PLOT DATE = 3/22/2022	DATE = 1/27/2022	REVISED -	REVISED -	E-34								



PLAN



WIRING

- NOTES:**
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
  2. NEW AUXILIARY SIGN "IWAS3" SHALL BE SWITCHED FROM BARRIER "IWB".
  3. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.

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**KNIGHT**  
Engineers & Architects

USER NAME = korabmp  
PLOT SCALE = 100.00' / in.  
PLOT DATE = 3/22/2022

DESIGNED - MCP  
DRAWN - MB  
CHECKED - CS  
DATE - 1/27/2022

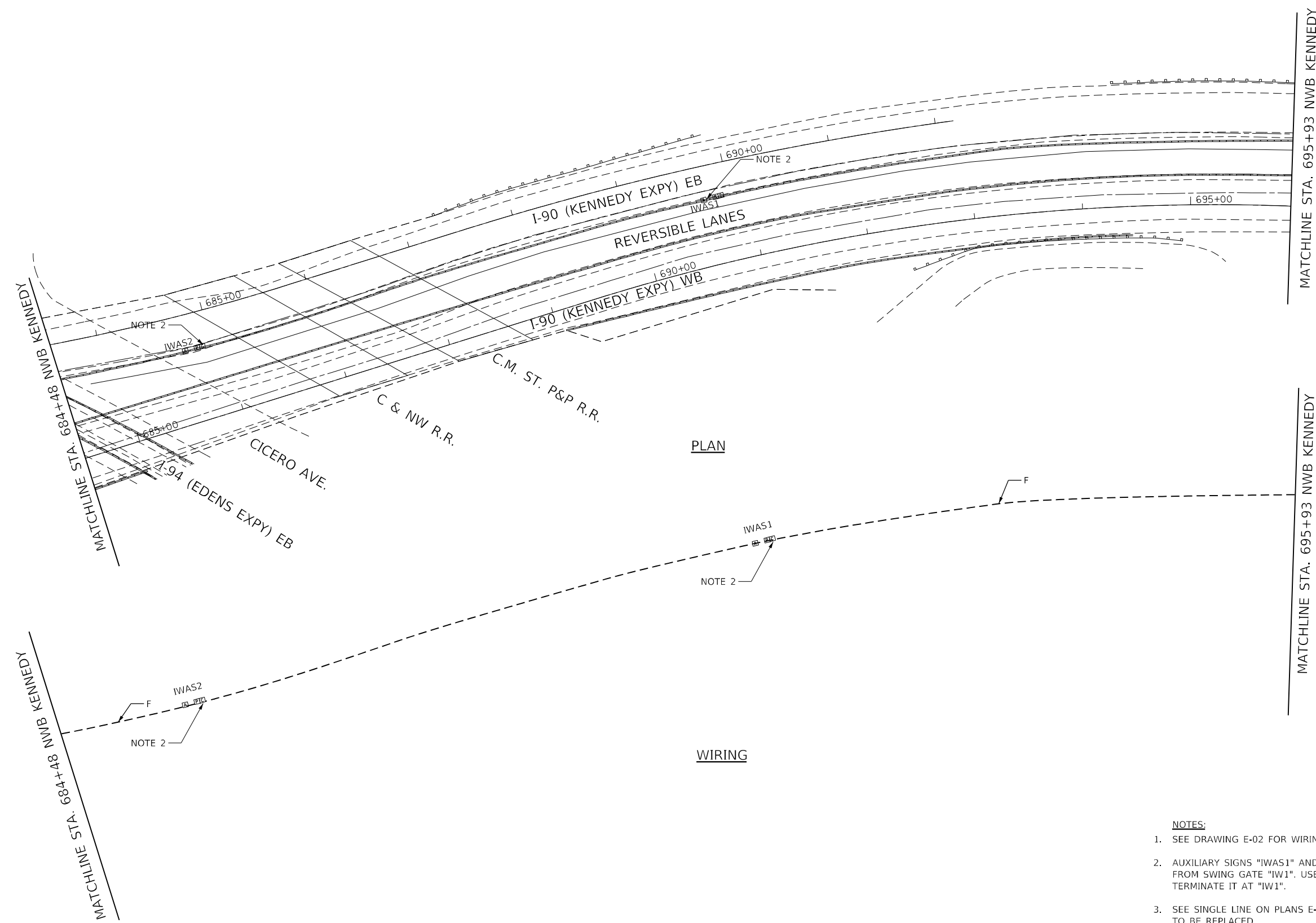
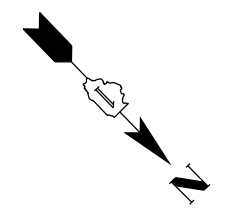
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL POWER AND CONTROL PLANS  
INBOUND KENNEDY**

SCALE: 1"=50' SHEET 23 OF 27 SHEETS STA. 603+50 TO STA. 490+00

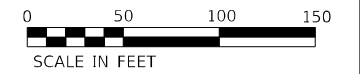
P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	191
CONTRACT NO.			60T46	
ILLINOIS		FED. AID PROJECT		



PLAN

WIRING

- NOTES:**
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
  2. AUXILIARY SIGNS "IWAS1" AND "IWAS2" CONTROL SHALL BE SWITCHED FROM SWING GATE "IW1". USE EXISTING CONTROL WIRING AND TERMINATE IT AT "IW1".
  3. SEE SINGLE LINE ON PLANS E-09 AND E-10 FOR AUXILIARY SIGNS TO BE REPLACED.
  4. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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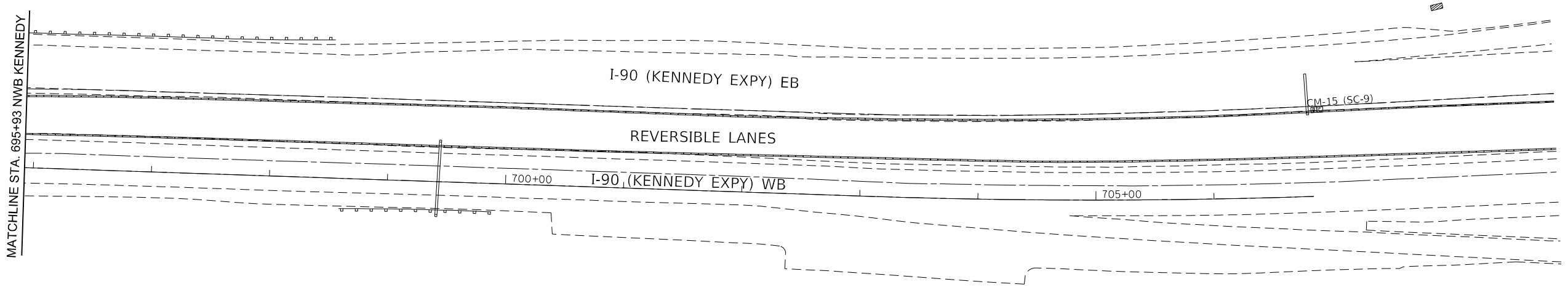
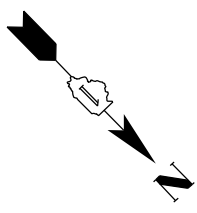
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<b>KNIGHT</b> Engineers & Architects		DRAWN - MB	REVISED -
	PLOT SCALE = 100.00' / in.	CHECKED - CS	REVISED -
	PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

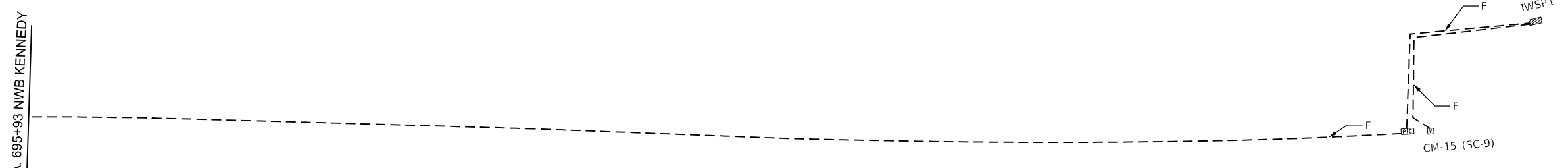
**ELECTRICAL POWER AND CONTROL PLANS  
INBOUND KENNEDY**

SCALE: 1"=50'    SHEET 24 OF 27 SHEETS    STA. 490+00 TO STA. 3639+0

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	192
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				

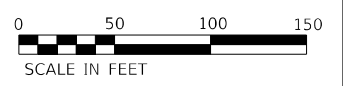


PLAN



WIRING

- NOTES:**
- SEE DRAWING E-02 FOR WIRING SCHEDULE.
  - CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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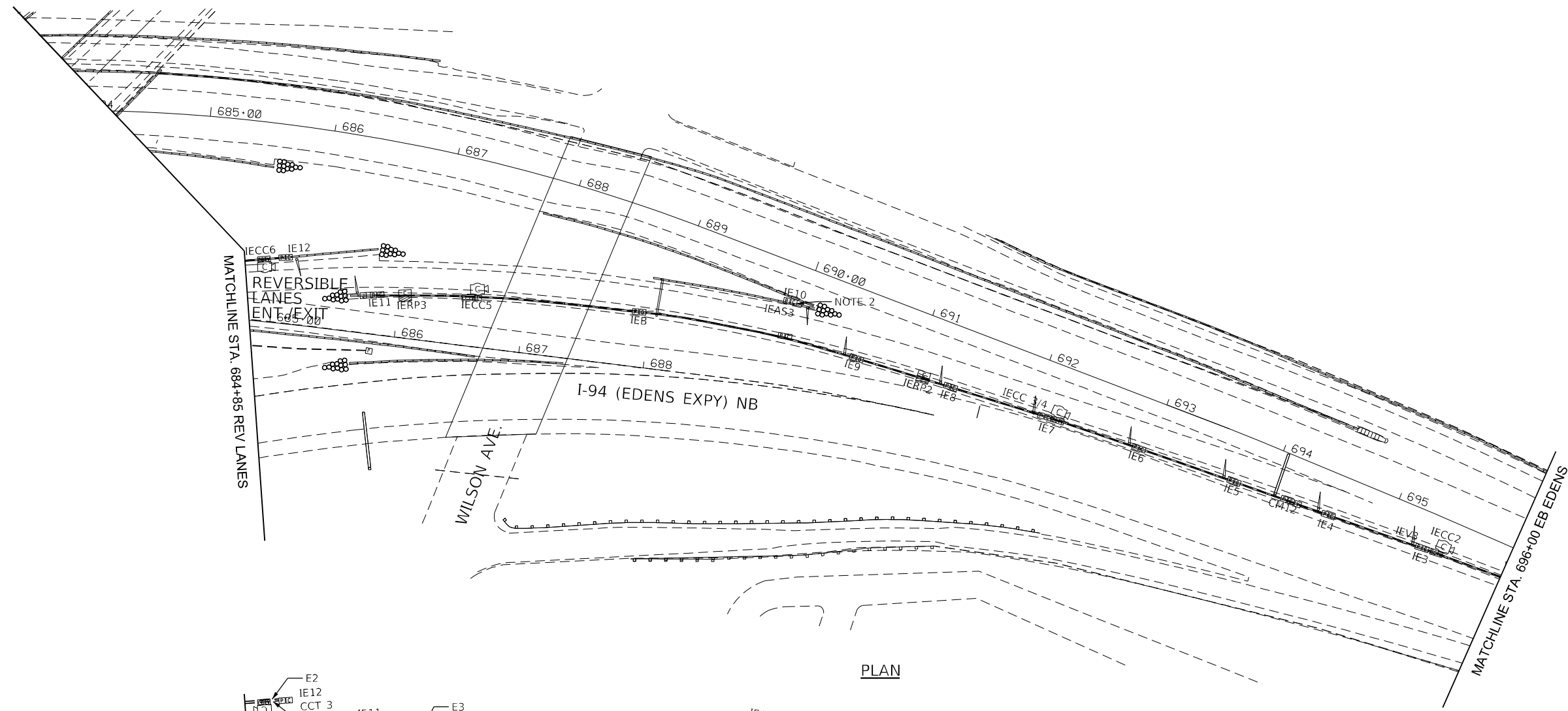
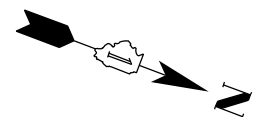
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	PLOT DATE = 3/22/2022	DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

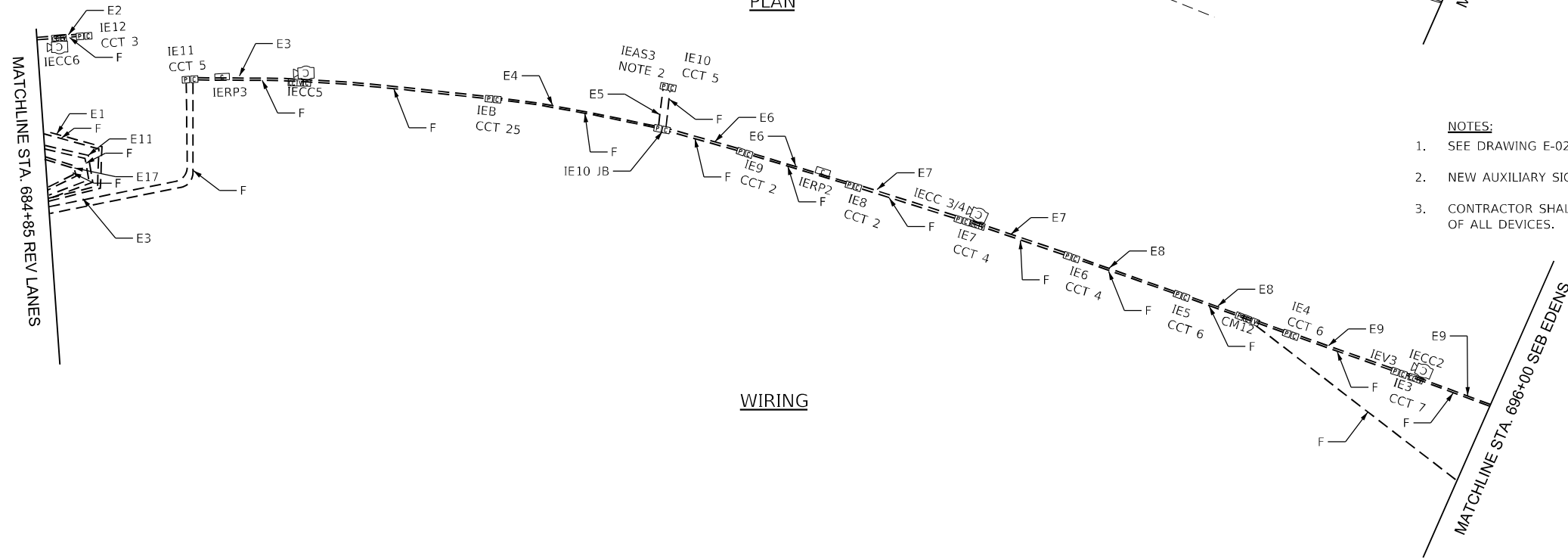
<b>ELECTRICAL POWER AND CONTROL PLANS INBOUND KENNEDY</b>			
SCALE: 1"=50'	SHEET 25 OF 27 SHEETS	STA. 3639+0	TO STA. 3626+0

P.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 193
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T46	

E-37

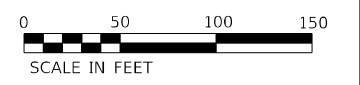


PLAN



WIRING

- NOTES:**
1. SEE DRAWING E-02 FOR WIRING SCHEDULE.
  2. NEW AUXILIARY SIGN "IEAS3" SHALL BE SWITCHED FROM BARRIER "IWB".
  3. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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**KNIGHT**  
Engineers & Architects

FILE NAME = D180T48-ehi-EK-36.dgn	USER NAME = korabmp	DESIGNED - MCP	REVISED -
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PLOT DATE = 3/22/2022			

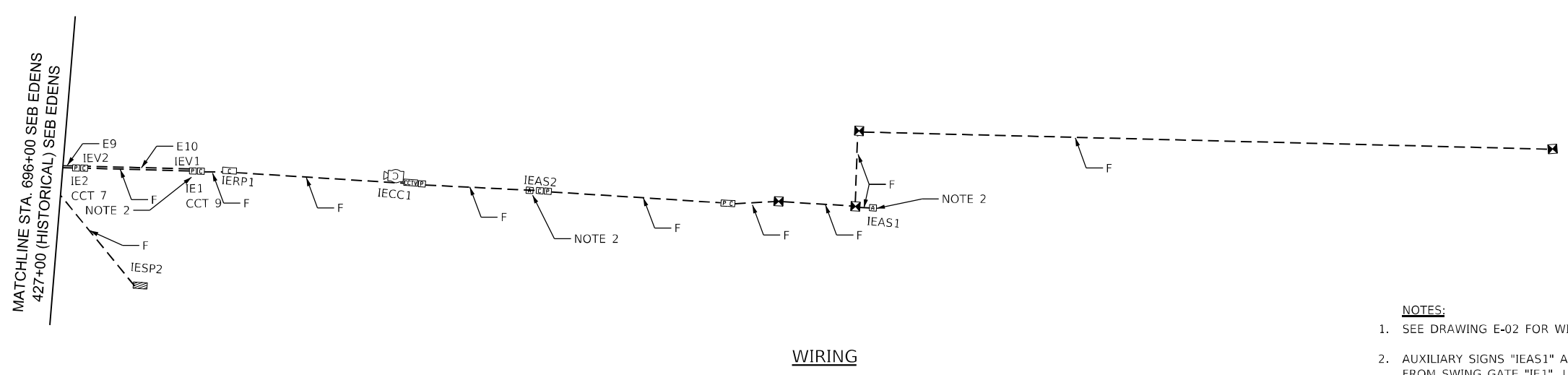
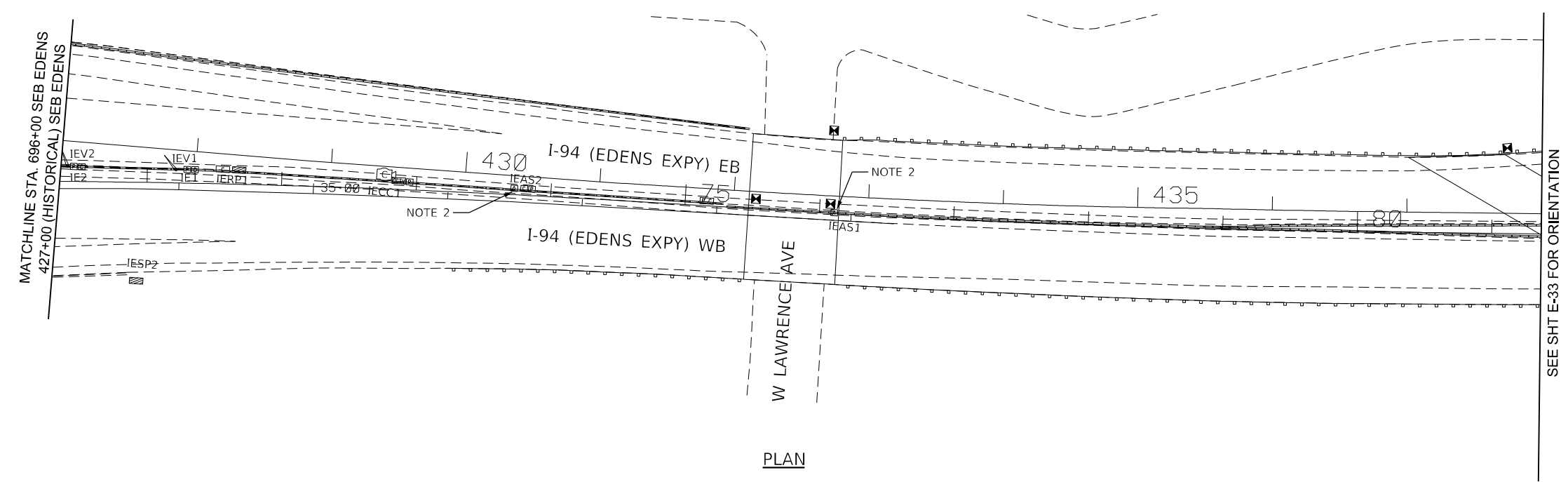
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL POWER AND CONTROL PLANS  
INBOUND KENNEDY**

SCALE: 1"=50' SHEET 26 OF 27 SHEETS STA. 490+00 TO STA. 427+00

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	194
CONTRACT NO.			60746	
ILLINOIS FED. AID PROJECT				





- NOTES:**
- SEE DRAWING E-02 FOR WIRING SCHEDULE.
  - AUXILIARY SIGNS "IEAS1" AND "IEAS2" CONTROL SHALL BE SWITCHED FROM SWING GATE "IE1". USE EXISTING CONTROL WIRING AND TERMINATE IT AT "IE1".
  - SEE SINGLE LINE ON PLANS E-09 AND E-10 FOR AUXILIARY SIGNS TO BE REPLACED.
  - CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL DEVICES.



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<b>KNIGHT</b> Engineers & Architects	USER NAME = korabmp PLOT SCALE = 100.00' / in. PLOT DATE = 3/22/2022	DESIGNED - MCP DRAWN - MB CHECKED - CS DATE - 1/27/2022	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL POWER AND CONTROL PLANS</b> <b>INBOUND KENNEDY</b>			P.A.I. RTE. 90/94 SECTION 2012-0081 COUNTY COOK TOTAL SHEETS 268 SHEET NO. 195
	SCALE: 1"=50'    SHEET 27 OF 27 SHEETS    STA. 427+00 TO STA. 438+00				CONTRACT NO. 60T46 ILLINOIS FED. AID PROJECT			

## GENERAL NOTES:




1. THE BILL OF MATERIAL SHOWN IN THE PLANS LISTS THE MAJOR COMPONENTS NEEDED FOR THE REVLAC CONTROL SYSTEM UPGRADE AT EACH LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL PARTS NEEDED FOR A COMPLETE WORKING SYSTEM.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL SUBMIT COMPLETE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR SHALL VERIFY THAT EXISTING CONDITIONS MATCH THOSE SHOWN IN THE PLANS. IF EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN IN THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING.
4. ALL FIELD TESTING SHALL BE PERFORMED ON NIGHTS OR WEEKENDS AS PERMITTED BY TRAFFIC CONTROL.
5. THE CONTRACTOR SHALL SUBMIT ALL DAILY AND REVERSIBLE LANE CLOSURES REQUESTS VIA WWW.IDOTLCS.COM AT LEAST 24 HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES. IN THE EVENT THAT PERMISSION IS NOT AVAILABLE THROUGH THE WEBSITE, THE CONTRACTOR SHALL REQUEST AND GAIN THE APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER (847-705-4151)
6. ALL CONTROL SYSTEMS RELATED SUBMITTALS AND WORK SHALL BE REVIEWED AND APPROVED BY THE ENGINEER. REVIEW AND APPROVAL INCLUDES ALL SYSTEMS INTEGRATION, SHOP & FIELD TESTING, PLC SYSTEMS, AND DRIVE SYSTEMS. REFER TO PLANS AND SPECIAL PROVISIONS FOR ADDITIONAL DETAILS. PROVIDE SUBMITTALS THAT INCLUDE ALL MATERIALS, DATA SHEETS, AND DRAWINGS AS REQUIRED BY THE CONTRACT DOCUMENTS. MATERIALS SHALL NOT BE PURCHASED UNTIL THE RELATED SUBMITTAL IS APPROVED BY THE ENGINEER.
7. ELECTRICAL DEVICES AND EQUIPMENT ARE SHOWN SYMBOLICALLY ON THE PLANS. THE USE OF SYMBOLS AND NOTATIONS (OR THE OMISSION THEREOF) DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING A SAFE, COMPLETE, AND FULLY FUNCTIONAL SYSTEM. FIELD LOCATE DEVICES AND EQUIPMENT TO FACILITATE THE ACCESSIBILITY WITH RESPECT TO OPERATIONS AND MAINTENANCE CONDITIONS.
8. ALL WIRES SHALL BE THHN/MTW UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE IS #14 AWG FOR CONTROL AND #10 AWG FOR POWER. USE CAT 5 FOR DATA, AND RG-11 OR RG-59 FOR COAX. PROVIDE AND INSTALL SPECIALIZED CABLES AS RECOMMENDED BY EQUIPMENT MANUFACTURERS.
9. FURNISH EQUIPMENT THAT ARE UL LISTED AND LABELED AS APPLICABLE.
10. CONTRACTOR SHALL PROVIDE AN ENTIRE REVLAC CONTROL SYSTEM COMMUNICATION NETWORK ARCHITECTURE, IP ADDRESSES, AND VLAN ROUTING CONFIGURATION.
11. CONTRACTOR SHALL REFER TO THE SUGGESTED I/O POINTS LIST FOR REVLAC CONTROL SYSTEM IN THE SPECIFICATION DOCUMENT.
12. A COMPLETE REVLAC CONTROL SYSTEM I/O POINTS LIST SHALL BE SUBMITTED TO THE ENGINEER BY THE CONTRACTOR FOR REVIEW.

## DEFINITIONS

LAYER 2 SWITCH: A TYPE OF NETWORK SWITCH OR DEVICE THAT WORKS ON THE DATA LINK LAYER AND UTILIZES THE MEDIA ACCESS CONTROL (MAC) ADDRESS TO DETERMINE THE PATH WHERE THE FRAMES ARE TO BE FORWARDED. IT IS PRIMARILY RESPONSIBLE FOR TRANSPORTING DATA ON A PHYSICAL LAYER AND IN PERFORMING ERROR CHECKING ON EACH TRANSMITTED AND RECEIVED FRAME.

LAYER 3 SWITCH: A TYPE OF NETWORK SWITCH THAT SWITCHES PACKETS BY LOOKING AT BOTH THEIR NETWORK ADDRESS AND THEIR PHYSICAL ADDRESS. THIS TYPE OF SWITCH OPERATES AT BOTH THE NETWORK LAYER AND THE DATA-LINK LAYER.

## LEGEND

CAT 6	----
SYNC CABLE	.....
VIDEO SWITCHER CABLE	----
MULTI MODE FIBER	
SINGLE MODE FIBER	
CAT 5	----
BLUE HOSE (REMOTE I/O)	-----
REMOVAL	

## ABBREVIATIONS

A	AMPERE
ABBR	ABBREVIATIONS
AC	ALTERNATING CURRENT
AR	AS REQUIRED
AUX	AUXILIARY
AVE	AVENUE
BL	BLACK
BLDG	BUILDING
BOM	BILL OF MATERIALS
CB	CIRCUIT BREAKER
CPU	CENTRAL PROCESSING UNIT
CR	CONTROL RELAY
DC	DIRECT CURRENT
DI	DIGITAL INPUT
DLR	DEVICE LEVEL RING
DMS	DYNAMIC MESSAGE SIGN
DO	DIGITAL OUTPUT
DVD	DIGITAL VIDEO DRIVE
DWVG	DRAWING
F	FUSE
G	GREEN
GND	GROUND
GUI	GRAPHICAL USER INTERFACE
H	HOT
HMI	HUMAN MACHINE INTERFACE
HQ	HEADQUARTERS
HSRP	HOT STANDBY ROUTING PROTOCOL
HZ	HERTZ
IN	INPUT
I/O	INPUTS/OUTPUTS
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
LAN	LOCAL AREA NETWORK
LOC	LOCAL
MBYTES	MEGABYTES
MM	MULTI MODE
N	NEUTRAL
NTS	NOT TO SCALE
OL	OVERLOAD
OUT	OUTPUT
PB	PUSH BUTTON
PL	PILOT LIGHT
PLC	PROGRAMMABLE LOGIC CONTROLLER
REM	REMOTE
REVLAC	REVERSIBLE LANE ACCESS CONTROL SYSTEM
RIO	REMOTE INPUT OUTPUT
SCP	SYSTEM CONTROL PANEL
SHT	SHEET
S/S	SELECTOR SWITCH
SM	SINGLE MODE
SUP	SUPPLY
TB	TERMINAL BLOCK
TCP/IP	TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL
TERM	TERMINAL
TYP	TYPICAL
V	VOLTS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VDT	VIDEO DISPLAY TERMINAL
VLAN	VIRTUAL LOCAL AREA NETWORK
VM	VIRTUAL MACHINE
WH	WHITE

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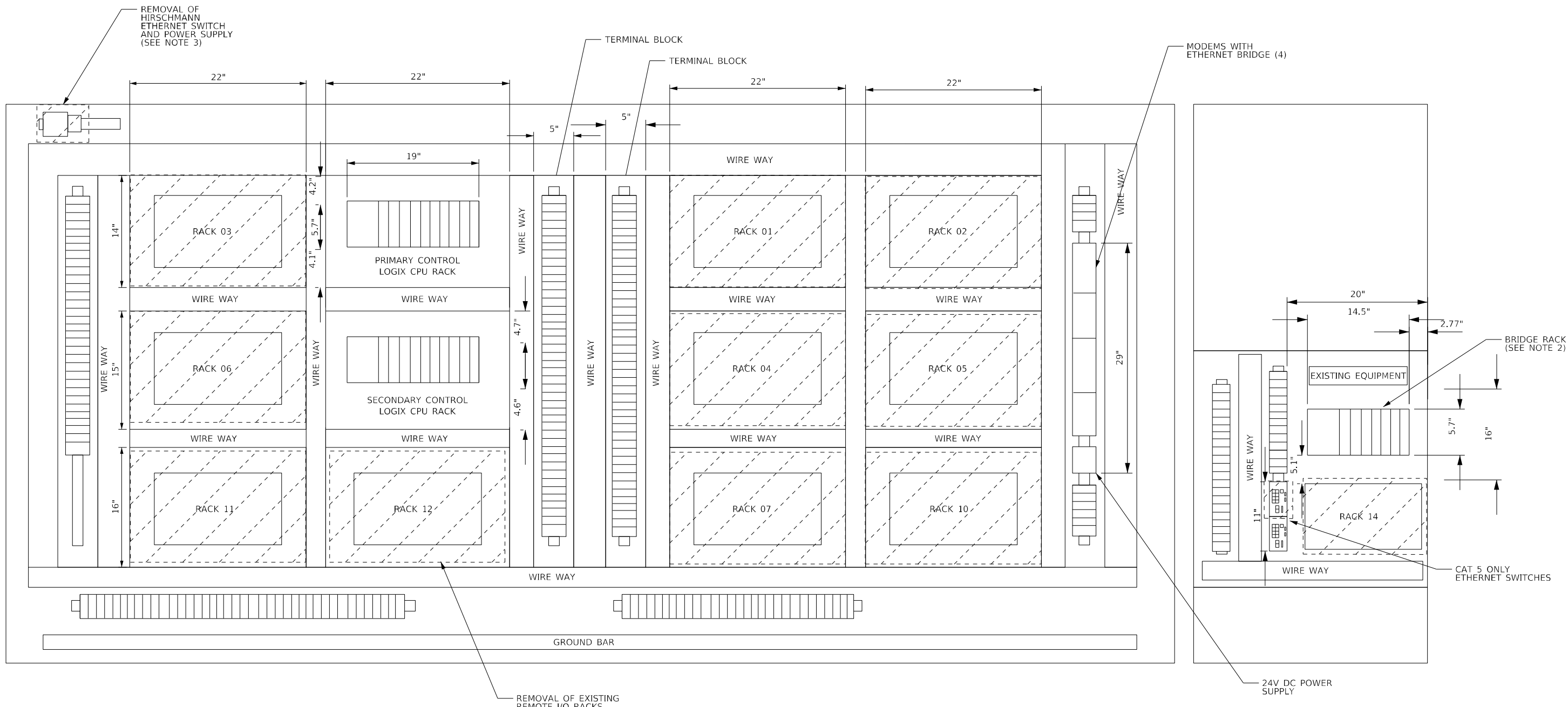
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DRAWN - MBS		REVISED -						90/94	2012-0081	COOK	268	196
PLOT SCALE = 2.0000' / in.		CHECKED - RAS	REVISED -		CONTRACT NO. 60746							
PLOT DATE = 3/23/2022		DATE - 1/27/2022	REVISED -		SCALE: NTS	SHEET 1 OF 1 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS	FED. AID PROJECT		

SC-01

**Jacobs**

525 W. Monroe, Suite 1600, Chicago, IL 60661

FILE NAME = D:\160746-SC-02-REMOVAL PLANS - BUILDING A PLC/VDT ENCLOSURE.dgn  
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 P:\US\160746-SC-02-REMOVAL PLANS - BUILDING A PLC/VDT ENCLOSURE.dgn



**NOTES:**

1. SEE SHEET SC-49 FOR SUGGESTED STAGING PLAN FOR REV-LAC PLC CONTROL SYSTEM UPGRADE.
2. BRIDGE RACK TO BE RELOCATED WITHIN PANEL AS RACK 5. SEE SHEET SC-14 FOR NEW LOCATION AND NAME OF RACK.
3. CONTRACTOR TO VERIFY ALL CONNECTIONS ON HIRSCHMANN SWITCH BEFORE REMOVAL OF SWITCH. ADD TAGS IF CABLES ARE NOT LABELED
4. REFER TO SHEET SC-14 FOR NEW PANEL LAYOUT.
5. THE EXISTING SCP AND VDT CONTROL AND POWER CABLING SHALL BE REMOVED AND REPLACED BY A GUI BASED VDT/SCP CLIENT WORKSTATION. SEE SHEETS SC-15 AND SC-16 FOR DETAILS.

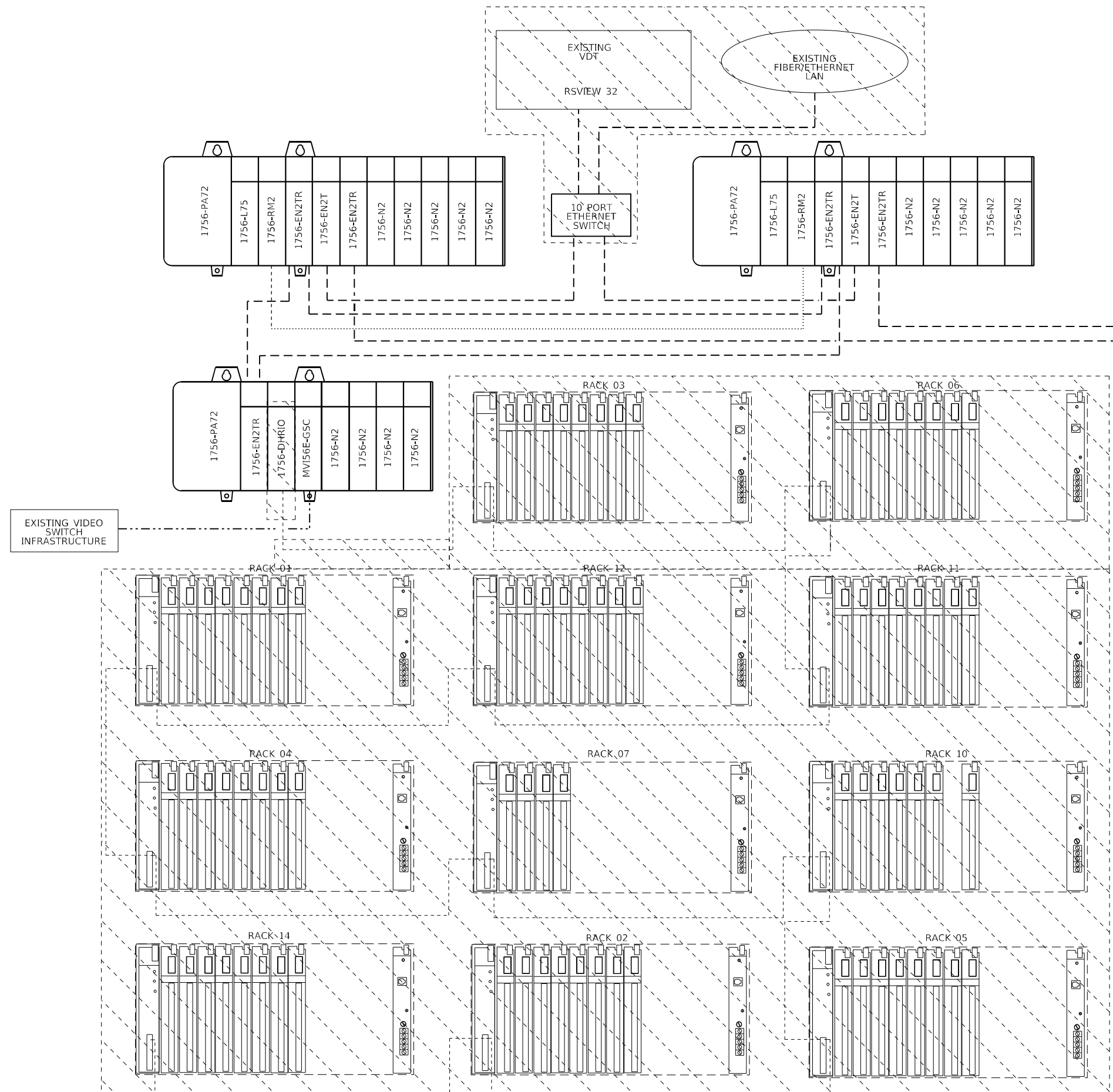
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DRAWN - MBS	REVISED -
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DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

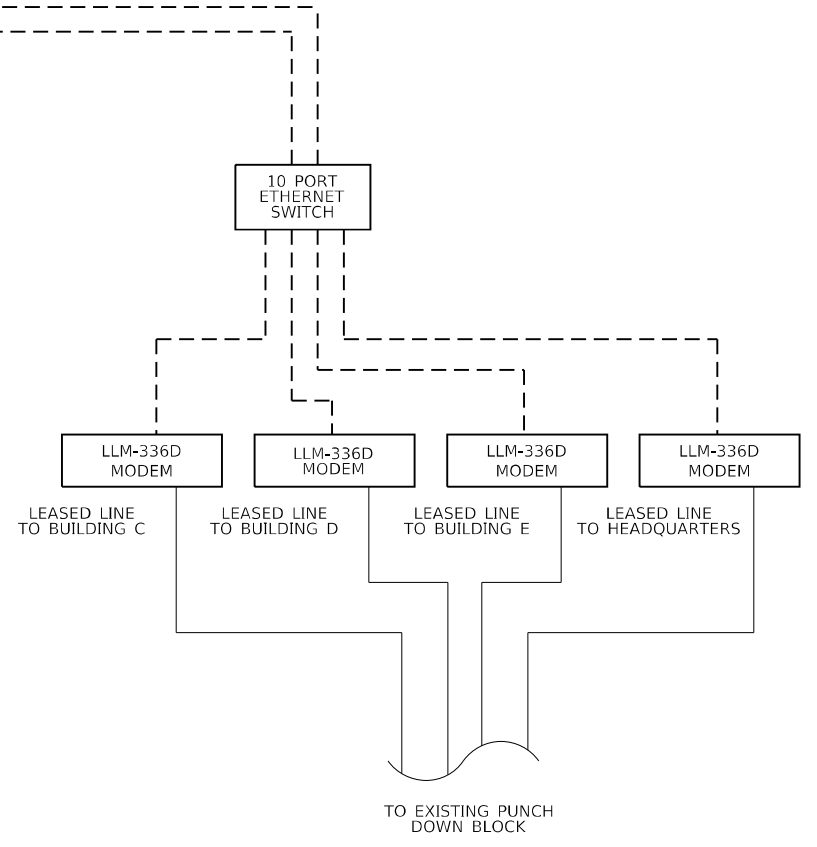
**PLC REMOVAL PLANS  
 BUILDING A PLC/VDT ENCLOSURE**

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	268	197
CONTRACT NO.			60T46	
ILLINOIS FED. AID PROJECT				

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 P:\US\AS\A\210666\CS\Documents\CS\210666\SC-03-REMOVAL PLANS - BUILDING A PLC/VDT NETWORK ARCHITECTURE.dgn



- NOTES:**
1. SEE SHEET SC-49 FOR SUGGESTED STAGING PLAN FOR REV-LAC PLC CONTROL SYSTEM UPGRADE.
  2. REFER TO SHEETS SC-12 AND SC-16 FOR NEW NETWORK ARCHITECTURE.
  3. THE EXISTING ROUTING OF COMMUNICATION CABLES WITHIN THE BUILDING PLC/VDT ENCLOSURE SHALL BE MODIFIED IN ACCORDANCE WITH SHEET SC-16.



FILE NAME = D:\160746-SC-03-REMOVAL PLANS - BUILDING A PLC/VDT NETWORK ARCHITECTURE.dgn	DESIGNED - RJR	REVISED -
DRAWN - MBS	REVISED -	
CHECKED - RAS	REVISED -	
DATE - 1/27/2022	REVISED -	
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PLOT DATE = 3/23/2022		

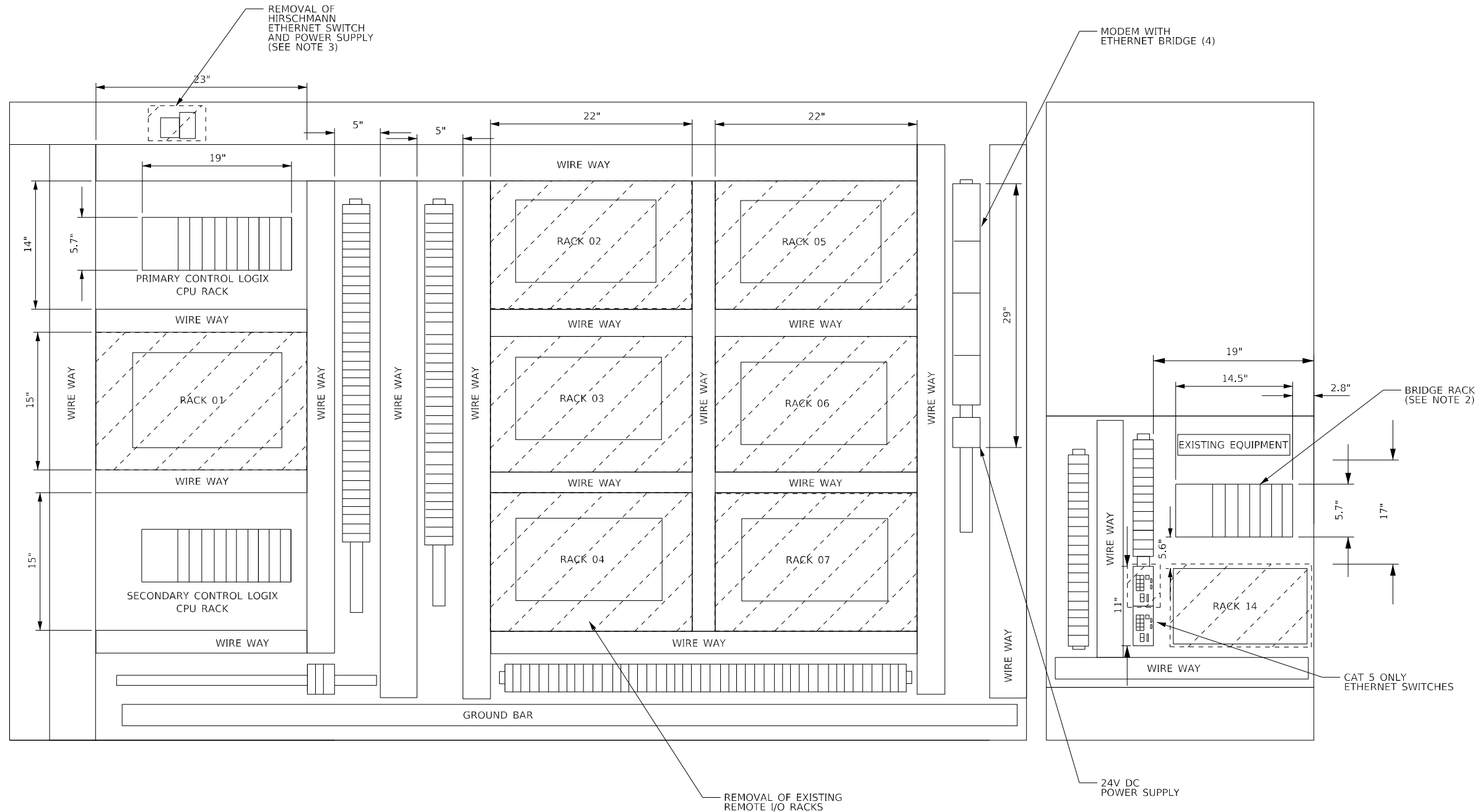
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLC REMOVAL PLANS**  
**BUILDING A PLC/VDT NETWORK ARCHITECTURE**

SCALE: NTS    SHEET 2 OF 11 SHEETS    STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0081	COOK	288	198
CONTRACT NO. 60T46				
ILLINOIS FED. AID PROJECT				

SC-03



**NOTES:**

1. SEE SHEET SC-49 FOR SUGGESTED STAGING PLAN FOR REV LAC PLC CONTROL SYSTEM UPGRADE.
2. BRIDGE RACK TO BE RELOCATED WITHIN PANEL AS RACK 3. SEE SHEET SC-20 FOR NEW LOCATION AND NAME OF RACK.
3. CONTRACTOR TO VERIFY ALL CONNECTIONS ON HIRSCHMANN SWITCH BEFORE REMOVAL OF SWITCH. ADD TAGS IF CABLES ARE NOT LABELED.
4. REFER TO SHEET SC-20 FOR NEW PANEL LAYOUT.
5. THE EXISTING SCP AND VDT CONTROL AND POWER CABLING SHALL BE REMOVED AND REPLACED BY A GUI BASED VDT/SCP CLIENT WORKSTATION. SEE SHEETS SC-21 AND SC-22 FOR DETAILS.

FILE NAME = D:\160746-SC-04-REMOVAL PLANS - BUILDING C PLC-VDT ENCLOSURE.dgn  
 PROJECT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 CONTRACT NO. 2012-0081  
 SHEET NO. 268 OF 299  
 DATE: 3/23/2022

<p>525 W. Monroe, Suite 1600, Chicago, IL 60661</p>	DESIGNED - RJR	REVISED -
	DRAWN - MBS	REVISED -
	CHECKED - RAS	REVISED -
	DATE - 1/27/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PLC REMOVAL PLANS BUILDING C PLC/VDT ENCLOSURE</b>		
SCALE: NTS	SHEET 3 OF 11 SHEETS	STA. N/A TO STA. N/A

P.A.I. RTE. 90/94	SECTION 2012-0081	COUNTY COOK	TOTAL SHEETS 268	SHEET NO. 199
ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 60T46	