11-06-2015 LETTING ITEM 106

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	1
	ILLINOIS	CONTRACT NO. 60T93		

D-91-501-12

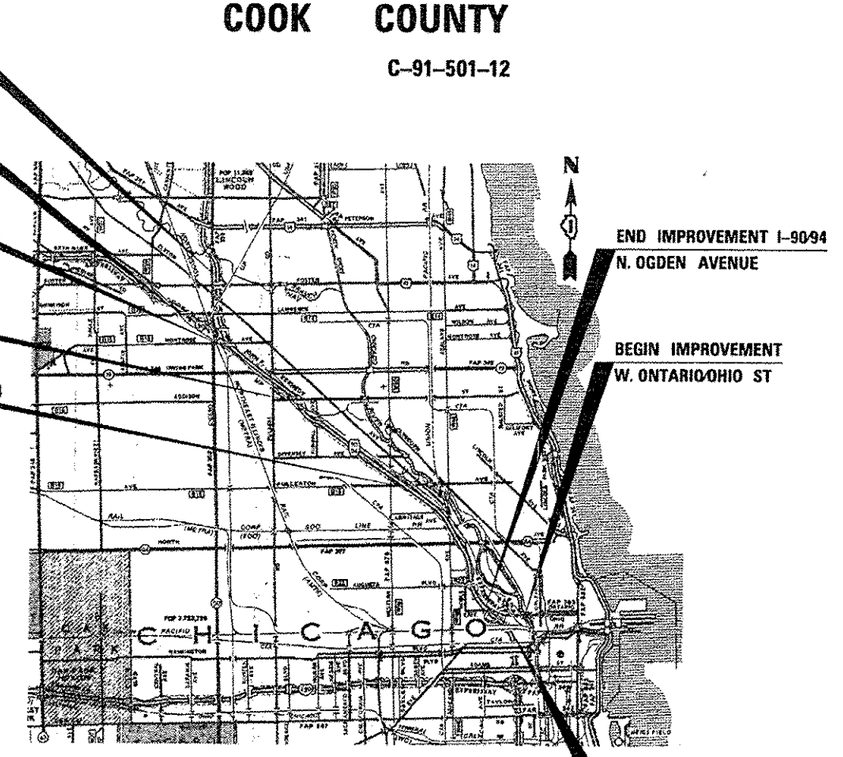
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.I. ROUTE 90/94 (KENNEDY EXPRESSWAY) (I-90/94)
SECTION 2012-0521
PROJECT: ACNHPP-ACHPP-000V(039)
REVLAC DMS REPLACEMENT
COOK COUNTY

C-91-501-12



TOWNSHIP: CHICAGO

LOCATION OF SECTION INDICATED THUS: –

IMPROVEMENTS LOCATED IN THE CITY OF CHICAGO

100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 OR 811

C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
1-312-744-7008

PROJECT ENGINEER: ROLAND TOMSONS
PROJECT MANAGER: MARK JENKINS

CONTRACT NO. 60T93

0 1M 2.5M
SCALE IN MILES

GROSS LENGTH = 51,600 FT. = 9.773 MILE
NET LENGTH = 28,800 FT. = 5.455 MILE

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CONSULTING ENGINEERS
230 W. MONROE STREET,
SUITE 1400,
CHICAGO, IL 60606

ISAAC YUN
062-062257
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

5/4/2015
ISAAC YUN, P.E. DATE
LICENSE NO.: 062-062257
EXPIRES: 11-30-2015
SHEETS:

ANGELA C. GIOVANNONE
062-057957
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

5/1/2015
ANGELA GIOVANNONE, P.E. DATE
LICENSE NO.: 062-057957
EXPIRES: 11-30-2015
SHEETS:

FUNCTIONAL CLASSIFICATION
INTERSTATE (URBAN)
2013 ADT = 280,000

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 7 May 2015
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Oct 2 2015
ENGINEER OF DESIGN AND ENVIRONMENT
Oct 2 2015
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DISTRICT 1 DESIGN /CONSULTANT SERVICES: MARK JENKINS, P.E. (847) 705-4350 SCHAUMBURG, ILLINOIS

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701400-08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701428	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-06	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701901-04	TRAFFIC CONTROL DEVICES
814001-03	HANDHOLES
836001-02	LIGHT POLE FOUNDATION
878001-10	CONCRETE FOUNDATION DETAILS

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BE-601	ELECTRIC CONNECTION TO SIGN STRUCTURE - CANTILEVER TYPE (2 SHEETS)
BE-602	ELECTRIC CONNECTION TO SIGN STRUCTURE - BRIDGE TYPE
BE-610	REMOVAL OF ELECTRICAL LIGHTING FROM SIGN STRUCTURE - SPAN TYPE (2 SHEETS)
BE-702	MISC. ELECTRICAL DETAILS, SHEET A
BE-705	COMMUNICATIONS VAULT, COMPOSITE CONCRETE
BE-1000	CCTV CAMERA STRUCTURE 50' MOUNTING HEIGHT
BE-1001	CCTV CAMERA STRUCTURE FOUNDATION 50' (15-24M) MOUNTING HEIGHT
TC-08	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS

SCALE: N/A | SHEET OF SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	2
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

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URBAN
80% FED.
20% STATE

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0021
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	160
*	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6
	67100100	MOBILIZATION	L SUM	1
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6
	80400100	ELECTRIC SERVICE INSTALLATION	EACH	2
	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,340
	81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	18,240
	81100220	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	30
	81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	250
	81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	1,320
	81101005	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	7,035
	81300555	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 8"	EACH	8
	81300960	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 42" X 36" X 12"	EACH	26
	81400200	HEAVY-DUTY HANDHOLE	EACH	25
	81603055	UNIT DUCT, 600V, 3-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	3,750
	81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	1,630
	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	3,790

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* Specialty Items

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET 1 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	3
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

URBAN
80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0021
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	12,390
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	1,340
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2
87100140	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 12F	FOOT	5,100
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	11,000
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	14
X0323524	REMOVE EXISTING SURVEILLANCE CAMERA EQUIPMENT	EACH	1
X0323898	CLOSED CIRCUIT TELEVISION DOME CAMERA	EACH	4
X0323914	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	15
X0323957	FIBER OPTIC CABLE SPLICE - MAINLINE	EACH	1
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	4500
X0326464	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, 80 FT. MOUNTING HEIGHT	EACH	5
X0326492	REMOVAL OF EXISTING SIGN LIGHTING UNIT AND SALVAGE	EACH	53
X0326948	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, 50 FT. MOUNTING HEIGHT	EACH	9
X0326949	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE FOUNDATION, 30" DIAMETER	FOOT	90
X0327129	DYNAMIC MESSAGE SIGN POWER CABINET, COMPLETE IN PLACE	EACH	15
X0327130	DMS FRONT ACCESS, FULL MATRIX, NTCIP 1203 V2-COLOR	EACH	2
X0327563	MODIFY CONTROLLER FOR CCTV POWER	EACH	2

18

URBAN
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20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0021
X0327571	CCTV EQUIPMENT CABINET - GROUND MOUNT	EACH	1
X0324807	CLOSED CIRCUIT TELEVISION CABINET EQUIPMENT	EACH	10
X0327601	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, FOUNDATION, 80 FT. MOUNTING HEIGHT	FOOT	105
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1
X8440105	RELOCATE EXISTING SIGN LIGHTING LUMINAIRE	EACH	9
X8570100	DISCONNECT SWITCH	EACH	15
X8710035	FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE	FOOT	30,600
X8710036	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	4,085
X8780105	CONCRETE FOUNDATIONS (SPECIAL)	EACH	16
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0033052	COMMUNICATIONS VAULT	EACH	14
~~Z0048665~~	~~RAILROAD PROTECTIVE LIABILITY INSURANCE~~	~~L SUM~~	~~1~~
Ø Z0076600	TRAINEES	HOUR	2000
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	2000
X1400119	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL (INSTALL ONLY)	FOOT	1,500
X1400120	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 42" X 36" X 12" (INSTALL ONLY)	EACH	18
X1400121	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, 80 FT. MOUNTING HEIGHT, DUAL LOWERING DEVICES	EACH	1
X1400122	FIXED POSITION CCTV CAMERA FOR REVLAC DMS	EACH	15
X1400123	FIBER OPTIC INTERFACE AT REMOTE CONTROL BUILDING A	EACH	1
X1400124	FIBER OPTIC INTERFACE AT REMOTE CONTROL BUILDING C	EACH	1

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Ø0042

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A | SHEET 3 OF 4 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	5

CONTRACT NO. 60T93
ILLINOIS FED. AID PROJECT

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URBAN
80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0021
X1400125	FIBER OPTIC INTERFACE AT REMOTE CONTROL BUILDING D	EACH	1
X1400126	FIBER OPTIC INTERFACE AT REMOTE CONTROL BUILDING E	EACH	1
X1400127	CAT. 6 ETHERNET CABLE	FOOT	850
X1400128	REMOVE AND REPLACE EXISTING CIRCUIT BREAKER WITH 40AMP, 2-POLE	EACH	15
X1400129	REMOVE AND REPLACE EXISTING CIRCUIT BREAKER WITH 125AMP, 3-POLE	EACH	1
X1400130	REVLAC DMS FRONT ACCESS, LED, CM-1, CM-2, CM-13, AND CM-15	EACH	4
X1400131	REVLAC DMS FRONT ACCESS, LED, CM-3, CM-7, CM-10, CM-12, AND CM-14	EACH	5
X1400132	REVLAC DMS FRONT ACCESS, LED, CM-4 AND CM-5	EACH	2
X1400133	REVLAC DMS FRONT ACCESS, LED, CM-6	EACH	1
X1400134	REVLAC DMS FRONT ACCESS, LED, CM-8	EACH	1
X1400135	DMS FRONT ACCESS, LED, CM-9	EACH	1
X1400136	DMS FRONT ACCESS, LED, CM-11	EACH	1
X1400137	MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION	L SUM	1
X1400138	BUDGETARY ALLOWANCE FOR CCTV AND DMS INTEGRATION AND MODIFICATION OF EXISTING PLC CONTROLS	L SUM	1
X1400139	CLOSED CIRCUIT TELEVISION CABINET EQUIPMENT - FOR DUAL CAMERA	EACH	4
X1400140	REMOVE EXISTING NON-REVLAC DMS	EACH	2
X1400141	REMOVE EXISTING DRUM SIGNS	EACH	15

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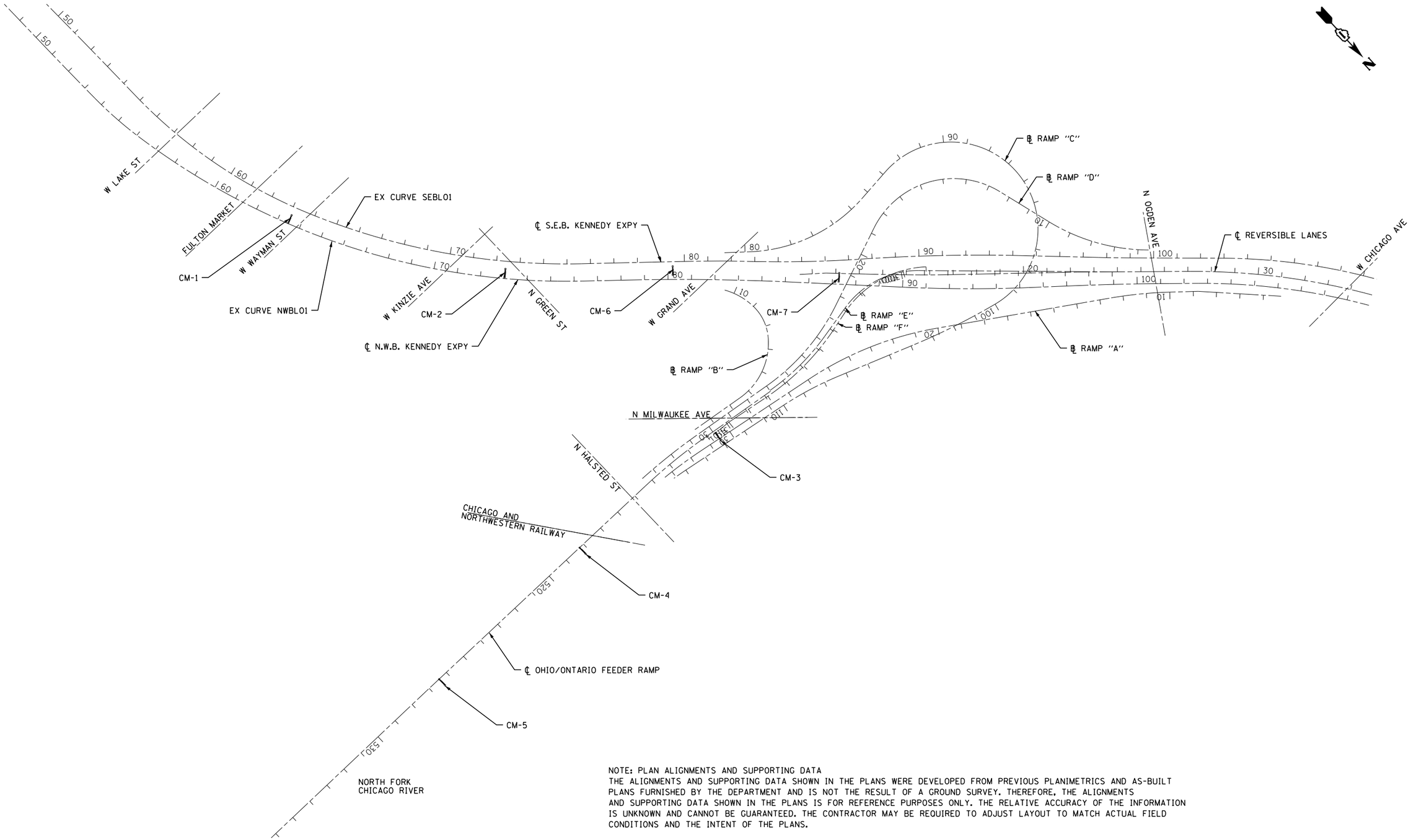

NOTE: PLAN ALIGNMENTS AND SUPPORTING DATA
THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS WERE DEVELOPED FROM PREVIOUS PLANIMETRICS AND AS-BUILT PLANS FURNISHED BY THE DEPARTMENT AND IS NOT THE RESULT OF A GROUND SURVEY. THEREFORE, THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS IS FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUIRED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS.

0 200 400
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS KENNEDY EXPRESSWAY AT OHIO FEEDER RAMP

SCALE: 1"=200' | SHEET 1 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	7
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

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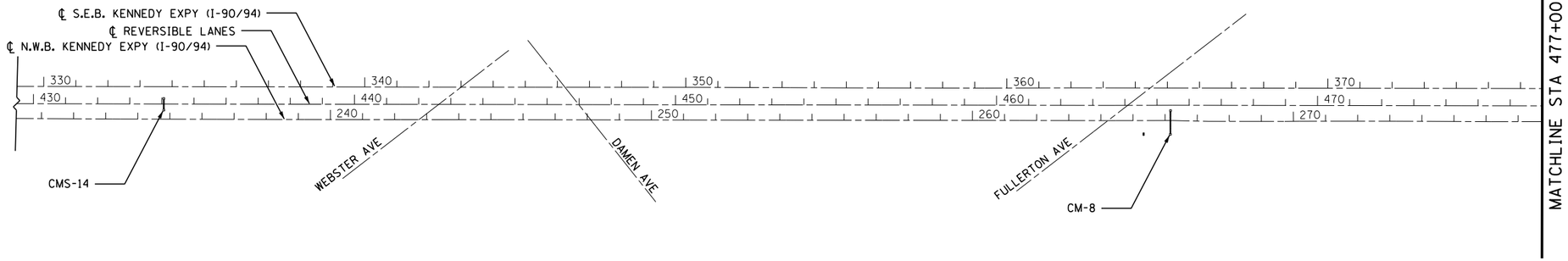

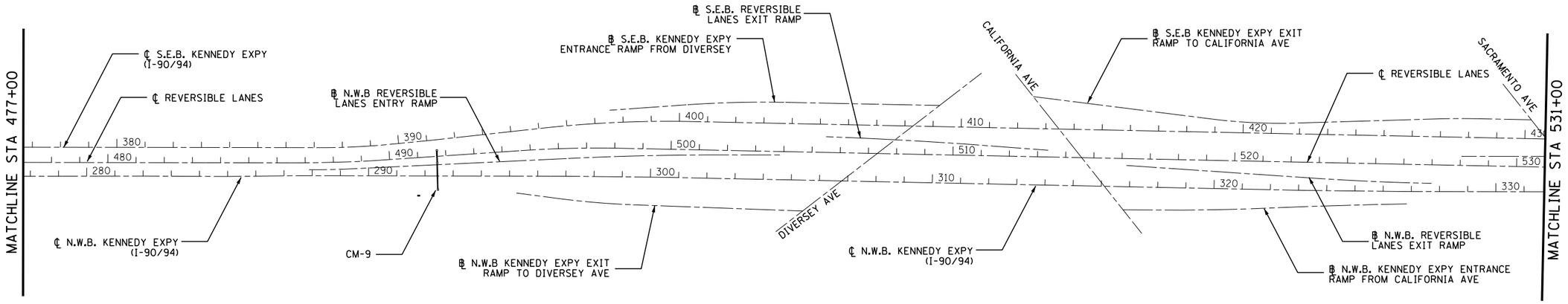

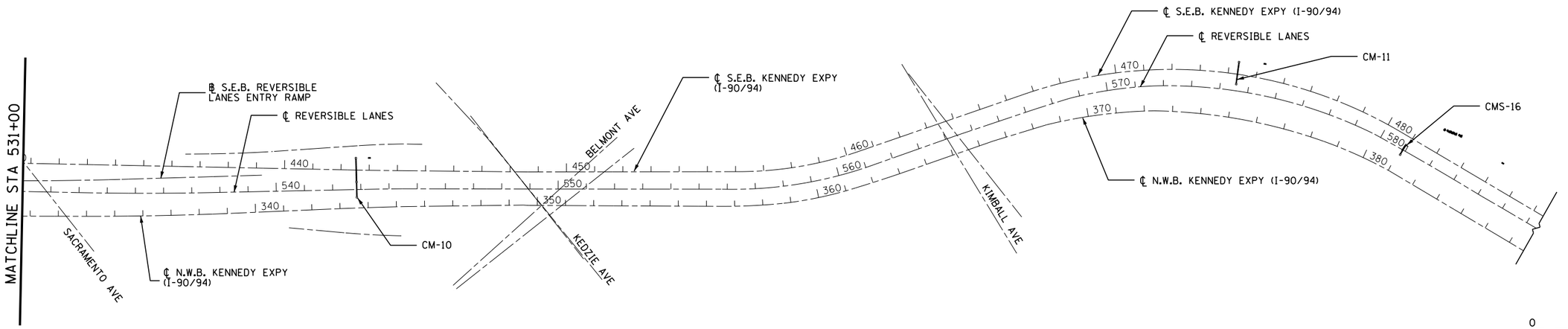

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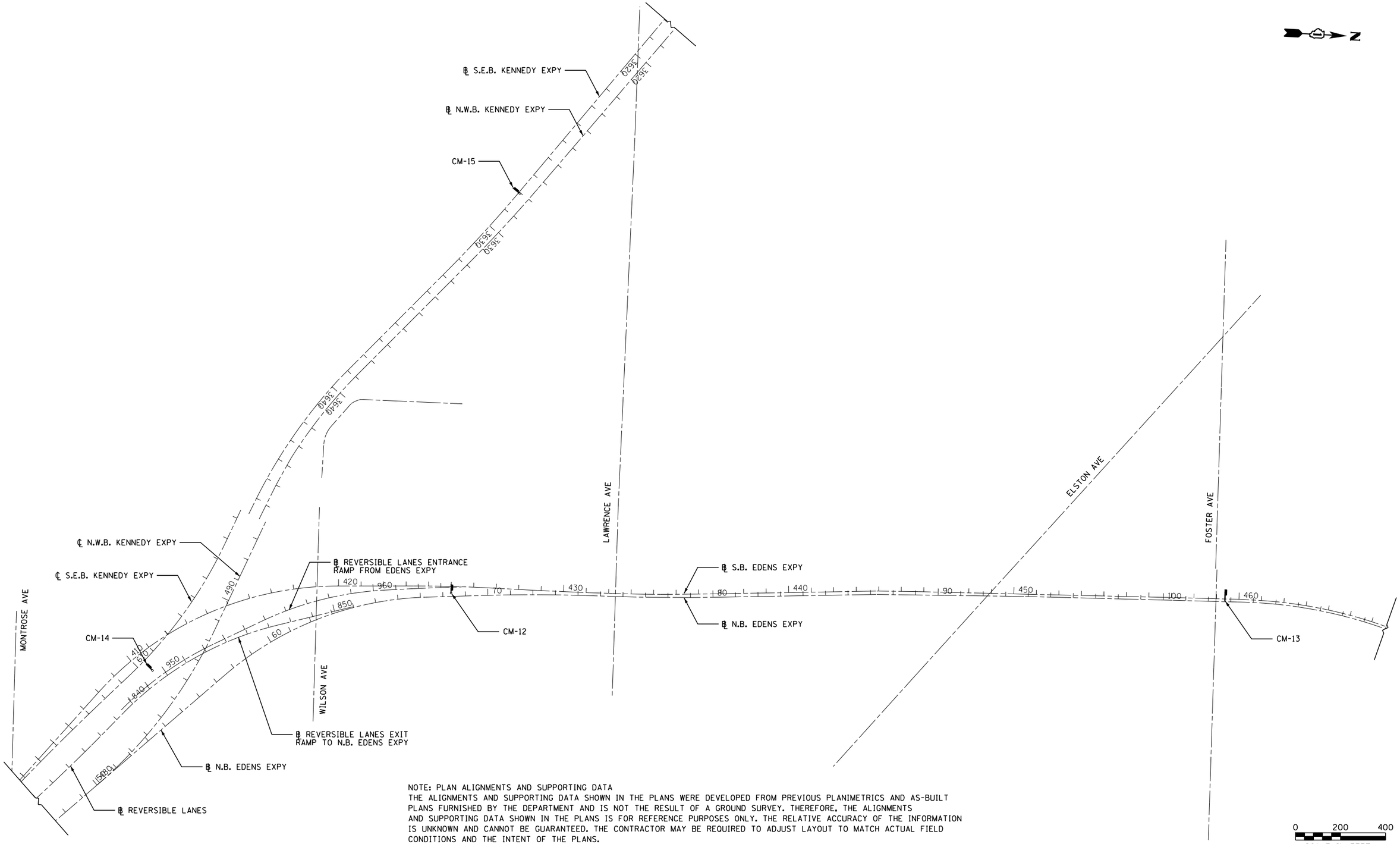
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS KENNEDY EXPRESSWAY SLIP RAMP

SCALE: 1"=200' | SHEET 2 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	8
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



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0 200 400
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS
KENNEDY EXPRESSWAY AT EDENS EXPRESSWAY

SCALE: 1"=200' | SHEET 3 OF 3 SHEETS | STA. N/A | TO STA. N/A

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	9
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. CONTRACTOR TO COMPLETE THE NEW CAMERA INSTALLATIONS, PRIOR TO COMMENCING THE DRUM SIGN REPLACEMENTS TO FIXED POSITION REVLAC DYNAMIC MESSAGE SIGNS WITHIN THE PROJECT LIMITS, THROUGHOUT THE EXPRESSWAYS/FREEWAYS/RAMPS.

2. LANE CLOSURES, RAMP CLOSURES, SIGNING,TRAFFIC CONTROL DEVICE AND BARRICADE PLACEMENT SHALL BE IN ACCORDANCE WITH THE RECENT IDOT STANDARD DRAWINGS AND DISTRICT ONE STANDARD DETAILS. ALL CLOSURES MUST BE COORDINATED WITH THE ENGINEER AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

3. AUTHORIZATION FROM THE IDOT DISTRICT ONE BUREAU OF TRAFFIC-EXPRESSWAY OPERATIONS UNIT IS REQUIRED FOR ALL EXPRESSWAY/FREEWAY/RAMP CLOSURES. MAINTENANCE AND CONSTRUCTION WORK PLANS SHOULD BE REVIEWED AND APPROVED BY THE BUREAU OF TRAFFIC-EXPRESSWAY OPERATIONS UNIT.

4. ALL DRUMS, VERTICAL BARRICADES, AND TYPE II BARRICADES IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH STEADY BURNING MONO-DIRECTIONAL LIGHT. REFLECTORIZED CONES WILL NOT BE USED DURING NIGHT TIME WORK. ALL DRUMS & BARRICADES SHALL BE AT 50-FT C-C SPACING IN TAPERS AND 100-FT C-C SPACING IN TANGENTS.

5. REFLECTORIZED CONES MAY BE SUBSTITUTED FOR DRUM OR TYPE II BARRICADES DURING DAY OPERATIONS. THE REFLECTORIZED CONES SHALL BE A MINIMUM OF 28-INCH HIGH. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.

6. TEMPORARY PAVEMENT MARKING TAPE MAY BE OMITTED, WHEN WORK ZONE CONSTRUCTION DOES NOT EXCEED THREE (3) DAYS.

7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ACCESS POINTS TO THE WORK ZONE. ACCESS POINTS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ANY SIGNING OR ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED TO PROVIDE CONTRACTOR ACCESS TO THE WORK ZONE IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) AND WILL NOT BE PAID FOR SEPARATELY.

8. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES. A FLAGGER IS ALSO REQUIRED AT THE SITE WHEN FOUR OR MORE VEHICLES ENTER/EXIT THE TRAFFIC LANES IN ONE HOUR PERIOD AND THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC. THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100-FT TO 200-FT IN ADVANCE OF THE WORKERS.

9. THE RAMP CLOSURE ADVANCED INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS; ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEEDS TWENTY-FOUR (24) HOURS IN LENGTH.

10. ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN STANDARD DETAILS ARE USED IN CONJUNCTION WITH THE OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.

11. IF AND WHEN THE "WORK ZONE PUBLIC INFORMATION SIGN" IS USED PER 701400, THE MESSAGE AND THE PANEL SIZE SHALL BE SPECIFIED BY THE DEPARTMENT.

12. ADVANCED SIGNING AND WORK LIMIT SIGNING MUST CONFORM TO IDOT HIGHWAY STANDARDS OR IDOT DISTRICT ONE STANDARDS. WHEN THE LEFT LANE IS CLOSED, "LEFT LANE CLOSED" SIGN SHALL BE SUBSTITUTED FOR THE "RIGHT LANE CLOSED" SIGN. UNDER THESE CONDITIONS, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN IN THE IDOT HIGHWAY STANDARDS OR IDOT DISTRICT ONE STANDARDS.

13. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE ROAD CONSTRUCTION AHEAD AND LANE CLOSED AHEAD SIGNS. ALL ADVANCED SIGNING AND/OR CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF ROAD WORK IN BOTH DIRECTIONS OF EDENS AND KENNEDY EXPRESSWAYS & RAMPS.

14. ALL TRAFFIC CONTROL DEVICES AND SIGNAGE REQUIRED ON THE EDENS AND KENNEDY EXPRESSWAYS, REVERSIBLE LANES AND ALL RAMPS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE STANDARD DETAILS AND IDOT HIGHWAY STANDARDS, AND WILL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY), AND WILL NOT BE PAID FOR SEPARATELY.

15. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLAN FOR DMS SIGN INSTALLATION AND DRUM SIGN REMOVAL TO THE DISTRICT ONE TRAFFIC OPERATIONS DEPARTMENT TWO WEEKS IN ADVANCE OF THE PLANNED WORK FOR APPROVAL. PLAN SHALL INCLUDE, BUT NOT LIMITED TO: LANE AND RAMPS CLOSURES, EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATIONS.

16. EXISTING CRITICAL SIGNS SHOULD BE REPLACED ONE AT A TIME PER EACH CLOSURE ONLY; IN NO CASE WILL TWO CRITICAL SIGNS BE INSTALLED ON THE SAME NIGHT WITHOUT PRIOR APPROVAL BY THE ENGINEER AND THE DEPARTMENT.

HIGHWAY STANDARDS

701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701400-08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701428	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-06	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701901-04	TRAFFIC CONTROL DEVICES

DISTRICT 1 STANDARD DETAILS

TC-08	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC GENERAL NOTES

SCALE: N/A | SHEET OF SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	10
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- EXISTING CABINET, TYPE AS NOTED IN PLANS
- EXISTING HEAVY DUTY HANDHOLE
- EXISTING JUNCTION BOX
- EXISTING REVLAC POWER JUNCTION BOX
- EXISTING REVLAC CONTROLS JUNCTION BOX
- PROPOSED HEAVY DUTY HANDHOLE
- PROPOSED JUNCTION BOX
- PROPOSED COMMUNICATIONS VAULT
- PROPOSED DMS CABINET
- EXISTING CONDUIT
- E/FO — EXISTING UNDERGROUND FIBER OPTIC CABLE
- EXISTING UNDERGROUND CONDUIT
- EXISTING CONDUIT ATTACHED TO STRUCTURE, PVC COATED GALVANIZED STEEL
- FO — PROPOSED UNDERGROUND FIBER OPTIC CABLE IN CONDUIT
- PROPOSED UNDERGROUND CONDUIT, GALVANIZED STEEL (SIZE AND LENGTH AS NOTED ON PLANS)
- PROPOSED CONDUIT ATTACHED TO STRUCTURE, PVC COATED GALVANIZED STEEL (SIZE AS NOTED ON PLANS)
- DATA CABLES IN CONDUIT, AS SPECIFIED
- P — PROPOSED POWER CABLE, SIZE AND TYPE AS NOTED
- P — ELECTRIC CABLE IN CONDUIT ATTACHED TO STRUCTURE
- EXISTING LIGHT POLE MEDIAN MOUNTED
- EXISTING CCTV DOME CAMERA AND STRUCTURE
- EXISTING FIXED CCTV CAMERA
- PROPOSED CCTV CABINET
- PROPOSED FIXED CCTV FOR REVLAC DMS
- PROPOSED PTZ DOME CCTV CAMERA
- EXISTING DRUM SIGN TO BE REMOVED
- PROPOSED REVLAC DMS SIGN
- EXISTING NON-REVLAC DMS SIGN TO BE REMOVED
- PROPOSED NON-REVLAC DMS SIGN

GENERAL NOTES

1. LOCATIONS OF THE CCTV CAMERA INSTALLATIONS ARE APPROXIMATE. THE CONTRACTOR MAY ADJUST THE LOCATIONS OF THE INSTALLATIONS TO FACILITATE INSTALLATION WITH WRITTEN APPROVAL OF THE RESIDENT ENGINEER. ALL STANDARD NON-FRANGIBLE POLE SETBACK REQUIREMENTS AS WELL AS CLEAR ZONE REQUIREMENTS SHALL BE MAINTAINED.

2. THE CONTRACTOR SHALL EXERCISE CARE WITH THE INSTALLATION OF UNDERGROUND CONDUIT, VAULTS, HANDHOLES, AND FOUNDATIONS AS THERE MAY BE EXISTING PRIVATELY OWNED FACILITIES WITHIN THE PROJECT LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ANY UTILITIES IN THE WORK ZONE AND REQUEST UTILITY LOCATES.

3. THE ELECTRICAL MAINTENANCE CONTRACTOR (EMC) SHALL BE CONTACTED FOR EXISTING STATE OWNED FACILITIES AND SYSTEMS LOCATES.

4. ALL UNDERGROUND RACEWAYS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30-INCHES BELOW GRADE.

5. THE CONTRACTOR SHALL VERIFY ADEQUATE CLEARANCE OVER EXISTING ROADWAY FACILITIES BEFORE INSTALLING DUCTS, CONDUIT AND CABLES.

6. THE SIZE OF EACH DMS IS SHOWN ON DRUM SIGN REPLACEMENT PLAN SHEETS. SEE SPECIAL PROVISIONS FOR EXACT DIMENSION AND DMS CHARACTERISTICS.

7. REFER TO AS-BUILT DRAWINGS FOR A DESCRIPTION OF EXISTING CONDUIT RUN NUMBERS FOR CONTROL AND POWER CONDUITS.

8. CLEARING OF ELECTRICAL INSTALLATION WORK AREAS OF EXISTING VEGETATION, FENCING, TREES AND SHRUBS, INCLUDING EXISTING TREE AND VEGETATION PROTECTION SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS INSTALLATION OF UNDERGROUND CONDUITS, HANDHOLES, COMMUNICATION VAULTS.

9. RESTORATION OF ELECTRICAL INSTALLATION WORK AREAS IN KIND AND TO THE PRE-EXISTING CONDITION AS CONFIRMED BY THE ENGINEER SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS INSTALLATION OF UNDERGROUND CONDUITS, HANDHOLES, COMMUNICATION VAULTS. REMOVAL OF EXISTING FOUNDATIONS, CONSTRUCTION OF NEW FOUNDATIONS, ETC. ALL SURFACES SUCH AS PAVED SHOULDERS, MEDIANS, SIDEWALKS, ROADWAY PAVEMENT, CURB & GUTTERS ETC. SHALL BE REPLACED IN KIND. ALL IMPACTED GRASS AREAS SHALL BE RESTORED WITH TOPSOIL, SEEDED, FERTILIZED AND COVERED WITH EROSION CONTROL BLANKET TO THE SATISFACTION OF THE ENGINEER.

10. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

11. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)

12. THE LOCATION OF EXISTING FACILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATION INTO THE LOCATION, SIZE, CONFIGURATION AND NATURE OF ANY AND ALL EXISTING FACILITIES WHICH MAY INTERFERE WITH OR SUPPORT THE WORK UNDER THIS CONTRACT. ANY EXISTING FACILITIES (FIBER OPTIC CABLE, ELECTRIC OR ANY OTHER COMMUNICATIONS CABLES OR EQUIPMENT) NEAR PROPOSED WORK AREAS WHICH ARE TO REMAIN IN SERVICE SHALL BE RECONFIGURED AND BE FULLY PROTECTED BY THE CONTRACTOR. ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO IDOT TO THE SATISFACTION OF THE ENGINEER.

14. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES AND MUNICIPALITIES. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES AND THEIR OPERATION.

15. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

16. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

17. ALL FRAMES, GRATES, PAVEMENT, FENCES, DELINEATORS AND APPURTENANCES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.

18. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 A MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK.

19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING FIELD CONDITIONS PRIOR TO BIDDING, ORDERING MATERIALS, OR BEGINNING OF CONSTRUCTION ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS.

20. CONTRACTOR SHALL INSTALL CONDUIT EXPANSION/DEFLECTION COUPLING AT STRUCTURE JOINTS AND AS NEEDED PER BRIDGE CROSSING DETAILS AT NO ADDITIONAL COST.

21. ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR, SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF FIBER OPTIC CABLE TO REPAIR CUTS SHALL NOT BE ALLOWED. FIBER OPTIC CABLE SHALL BE REPLACED FROM COMMUNICATION VAULT TO COMMUNICATION VAULT.

22. FLUORESCENT VESTS AND HARD HATS: ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR FLUORESCENT ORANGE, FLUORESCENT YELLOW/GREEN OR A COMBINATION OF FLUORESCENT ORANGE AND FLUORESCENT YELLOW/GREEN VESTS AND HARD HATS AT ALL TIMES WHILE ON THE CONSTRUCTION SITE.

23. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT EQUIPMENT, FACILITIES, AND STRUCTURE FROM DAMAGE OR INTERFERENCE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING THE WORK AREA FREE FROM DEBRIS. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

24. THE STANDARD DRAWINGS LISTED IN THE PLANS INDEX ARE INTENDED TO BE THE LATEST REVISIONS AND SHALL TAKE PRECEDENCE OVER EARLIER REVISIONS THAT MAY BE REFERRED TO ELSEWHERE IN THE PLANS OR SPECIAL PROVISIONS.

NOTE: BOXED ITEMS ARE INCLUDED IN THE COST OF THE CONTRACT.

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ELECTRICAL SYMBOLS AND GENERAL NOTES

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	11
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

ESTIMATED CONSTRUCTION SEQUENCE

CONSTRUCTION*	TIME RESTRICTION
CM-6 (REVLAC-CRITICAL)**	SHALL BE STARTED DURING A FRIDAY OR SATURDAY. NIGHTLY CLOSURE AS NEEDED.
CM-7 (REVLAC-CRITICAL)**	SHALL BE STARTED DURING A FRIDAY OR SATURDAY. NIGHTLY CLOSURE AS NEEDED.
CM-3 (REVLAC-CRITICAL)**	SHALL BE STARTED DURING A FRIDAY OR SATURDAY. NIGHTLY CLOSURE AS NEEDED.
CM-9 (REVLAC-CRITICAL)**	SHALL BE STARTED DURING A FRIDAY OR SATURDAY. NIGHTLY CLOSURE AS NEEDED.
CM-10 (REVLAC-CRITICAL)**	SHALL BE STARTED DURING A FRIDAY OR SATURDAY. NIGHTLY CLOSURE AS NEEDED.
CM-14 (REVLAC-CRITICAL)**	SHALL BE STARTED DURING A FRIDAY OR SATURDAY. NIGHTLY CLOSURE AS NEEDED.
CM-12 (REVLAC-CRITICAL)**	SHALL BE STARTED DURING A FRIDAY OR SATURDAY. NIGHTLY CLOSURE AS NEEDED.

*DMS CONTRUCTION INCLUDES TIME FOR EXISTING DRUM SIGN REMOVAL, NEW DMS SIGN ASSEMBLY INSTALLATION, INTEGRATION AND TESTING SEE REVLAC DRUM SIGN REPLACEMENT WITH REVLAC DMS CONSTRUCTION SEQUENCE FLOWCHART ON SHEET 13.

**FOR EACH ASSEMBLY DMS INSTALLATION, NEW EQUIPMENT INTEGRATION, STAND ALONE TESTING AND SYSTEM OPERATION TEST, MODIFIED PLC PROGRAM SHALL BE LOADED IN TO THE EXISTING PLCs AND TESTED DURING A NIGHTLY CLOSURE OVER ONE NIGHT PRIOR TO REPLACEMENT. THE MODIFIED PLC PROGRAM SHALL BE UNLOADED AT THE END OF CLOSURE IF SUCCESFUL, DURING NEXT CLOSURE, DRUM SIGN SHALL BE REPLACED WITH DMS AND INTEGRATED IN TO THE RELOADED MODIFIED PLCs WITH FIXED POSITION CCTV CAMERA AND MADE OPERATIONAL.

LIST OF REVLAC AND NON-REVLAC DMS

NO.	DESCRIPTION	LOCATION	STATION
1	CM-1 (REVLAC-NON CRITICAL)	OUTBOUND KENNEDY EXPRESSWAY MAINLINE	STA. 63+45
2	CM-2 (REVLAC-NON CRITICAL)	OUTBOUND KENNEDY EXPRESSWAY MAINLINE	STA. 73+00
3	CM-6 (REVLAC-CRITICAL)	OUTBOUND KENNEDY EXPRESSWAY MAINLINE	STA. 510+63
4	CM-7 (REVLAC-CRITICAL)	OUTBOUND KENNEDY EXPRESSWAY MAINLINE	STA. 518+19
5	CM-3 (REVLAC-CRITICAL)	OUTBOUND ONTARIO FEEDER RAMP	STA. 526+40
6	CM-4 (REVLAC-NON CRITICAL)	OUTBOUND ONTARIO FEEDER RAMP	STA. 80+23
7	CM-5 (REVLAC-NON CRITICAL)	OUTBOUND ONTARIO FEEDER RAMP	STA. 86+31
8	CM-8 (REVLAC-NON CRITICAL)	OUTBOUND KENNEDY EXPRESSWAY SLIP RAMP	STA. 266+09
9	CM-9 (REVLAC-CRITICAL)	OUTBOUND KENNEDY EXPRESSWAY SLIP RAMP	STA. 292+40
10	CM-10 (REVLAC-CRITICAL)	INBOUND KENNEDY EXPRESSWAY SLIP RAMP	STA. 442+60
11	CM-11 (REVLAC-NON CRITICAL)	INBOUND KENNEDY EXPRESSWAY SLIP RAMP	STA. 474+38
12	CM-12 (REVLAC-CRITICAL)	INBOUND EDENS EXPRESSWAY	STA. 425+00
13	CM-13 (REVLAC-NON CRITICAL)	INBOUND EDENS EXPRESSWAY	STA. 459+44
14	CM-14 (REVLAC-CRITICAL)	INBOUND KENNEDY EXPRESSWAY WEST LEG	STA. 610+41
15	CM-15 (REVLAC-NON CRITICAL)	INBOUND KENNEDY EXPRESSWAY WEST LEG	STA. 3628+00
16	CMS-14 (NON-REVLAC)	OUTBOUND OVER REVERSIBLE LANE, SOUTH OF WEBSTER AVE	STA. 434+00
17	CMS-16 (NON-REVLAC)	INBOUND OVER REVERSIBLE LANE, NORTH OF KIMBALL AVE	STA. 580+91

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ESTIMATED CONSTRUCTION SEQUENCE

SCALE: N/A | SHEET OF SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	12
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

INSTALL FIXED CCTV POLES & CAMERAS, CONTROL CABINET & COMM INFRASTRUCTURE

PERFORM & PASS FIXED CCTV CAMERA & CONTROL CABINET STANDALONE TESTS FOR ALL LOCATIONS

INSTALL DMS GROUND MOUNT CABINET (EXISTING RELAY CONDUCTORS MAY BE TEMPORARILY EXTENDED TO NEW CABINET FOR USE DURING SIGN-BY-SIGN SWITCHOVER)

PERFORM & PASS GROUND MOUNT DMS CABINET STAND ALONE TEST

AFTER SUCCESSFUL FACTORY DEMO TEST PERFORM AND PASS REVLAC FRONT ACCESS DMS ONSITE TEST AT REMOTE LOCATION. SIMULATE RELAY INPUT TO CHANGE MESSAGE STATE AND VERIFY LOCAL CONTROL FUNCTIONS.

DESIGNATED SUBCONTRACTOR TO WRITE NEW PLC LOGIC FOR EACH INTERM SWITCHOVER AND FINAL REVLAC CONFIGURATION

TEST AND VERIFY PLC LOGIC WITH SOFTWARE TOOLS (INCLUDING EMULATOR)

SUBMIT FINAL/REVISED REVLAC SWITCHOVER SCHEDULE

APPROVED

NO

YES

LOAD FINAL CONFIGURATION PLC LOGIC ON ALL PRIMARY OR BACKUP PLCs

REPROGRAM/UPDATE VICON MATRIX SWITCHER SOFTWARE TO INPUT, PROCESS AND OUTPUT REVLAC CCTV CAMERAS

TEST ALL MODES OF REVLAC OPERATION BY EITHER CONFIRMING RELAY ACTIVATION AT EACH EXISTING ROADSIDE CABINET OR ASSOCIATED DRUM SIGN MESSAGE CHANGE

PERFORM FIXED CCTV CAMERA SYSTEM OPERATION TEST AND INTEGRATION FOR ALL LOCATIONS

ANOMALY OR FAILURE

YES

NO

TROUBLESHOOT (RELOAD LOGIC, RESET PROCESSOR) AND MODIFY/ADJUST

RETEST ALL MODES AT ALL LOCATIONS

PASS OR SUCCESS

YES

NO

END TEST, CORRECT LOGIC & CONNECTION PROBLEMS, UPDATE REVLAC SWITCHOVER SCHEDULE TO RETEST FAILED CONFIGURATION

RESTORE ORIGINAL LOGIC TO ALL PLCs

LOAD INTERIM CONFIGURATION PLC LOGIC (1 DMS, 14 DRUM SIGNS) ON ALL PRIMARY OR BACK UP PLCs FOR 1st NONCRITICAL SIGN.

TEST ALL MODES OF OPERATION BY CONFIRMING RELAY ACTIVATION AT NEW DMS CABINET AND MESSAGE CHANGE ON DRUM SIGNS.

ANOMALY OR FAILURE

YES

NO

TROUBLESHOOT AND RETEST ALL MODES AT ALL LOCATIONS WITHIN ALLOWABLE LANE CLOSURE TIME ON SAME DAY

PASS OR SUCCESS

YES

NO

END TEST
OPEN EXPRESSWAY FOR TRAFFIC AFTER REMOVAL OF TRAFFIC CONTROL

INSTALL TRAFFIC CONTROL AT SCHEDULED START OF NEXT SCHEDULED EVENING CLOSURE

TROUBLESHOOT AND RETEST ALL MODES AT ALL LOCATIONS WITHIN ALLOWABLE LANE CLOSURE NEXT DAY

RESTORE UNMODIFIED LOGIC TO ALL PLCs

INSTALL TRAFFIC CONTROL AT SCHEDULED START OF EVENING CLOSURE (CRITICAL SIGNS FRIDAY AND SATURDAY ONLY)

STAGE DRUM SIGN REMOVAL & NEW DMS TRUCK DELIVERY TO REPLACE 1st NON CRITICAL DRUM SIGN

REPLACE SIGN N (WHERE N=1 TO 15) & INTERCONNECT TO DMS CABINET

LOAD INTERIM PLC LOGIC N (WHERE N=1 TO 15) (n DMS, 15-N DRUM) TO ALL PLCs

PERFORM REVLAC DMS STAND ALONE TEST

PERFORM SYSTEM OPERATION TEST AND INTEGRATION

ANOMALY OR FAILURE

YES

NO

SWITCHOVER OF ALL NON CRITICAL LOCATIONS COMPLETE

NO

YES

LOAD INTERIM CONFIGURATION PLC LOGIC N (WHERE n=2 TO 8) DMS SIGNS, 8-N DRUM SIGNS ON ALL PRIMARY OR BACK UP PLCs FOR NON CRITICAL SIGNS

TEST ALL MODES OF OPERATION BY CONFIRMING RELAY ACTIVATION AT EITHER NEW DMS CABINET OR DMS MESSAGE CHANGE AND MESSAGE CHANGE ON DRUM SIGNS

TEST ALL MODES OF OPERATION BY CONFIRMING RELAY ACTIVATION AT NEW DMS CABINET OR DMS MESSAGE CHANGE AND MESSAGE CHANGE ON DRUM SIGNS

LOAD INTERIM CONFIGURATION PLC LOGIC N (WHERE n=1 TO 7) DMS AND (7-N) DRUM SIGNS ON ALL PRIMARY OR BACK UP PLCs FOR CRITICAL SIGNS

NO

SWITCHOVER OF ALL CRITICAL LOCATIONS COMPLETE

YES

SWITCHOVER COMPLETE

90-DAY OPERATIONAL TEST

LEGEND

- CONTRACTOR RESPONSIBILITY
- DESIGNATED PLC SUBCONTRACTOR RESPONSIBILITY
- EMC

NOTE:

THIS FLOWCHART SHOWS THE RISK TOLERANCE AND THE STEPS TAKEN TO MINIMIZE DISRUPTIONS AND DELAYS TO REVLAC OPERATIONS. THE CONTRACTOR MAY PROPOSE AND SUBMIT FOR REVIEW AND APPROVAL ALTERNATIVES TO THIS PROPOSED REPLACEMENT PROCESS THAT EQUALS OR REDUCES THE IMPLIED RISK TO REPLACE THE EXISTING DRUM SIGNS WITH DMS.

LOCATION: I-90/94 KENNEDY REVERSIBLES

WEEKNIGHT	ALLOWABLE LANE CLOSURE HOURS		
SUNDAY - FRIDAY	9:00 PM	TO	5:00 AM
FRIDAY	11:00 PM (FRI)	TO	6:00 AM (SAT)
SATURDAY	11:00 PM (SAT)	TO	8:00 AM (SUN)

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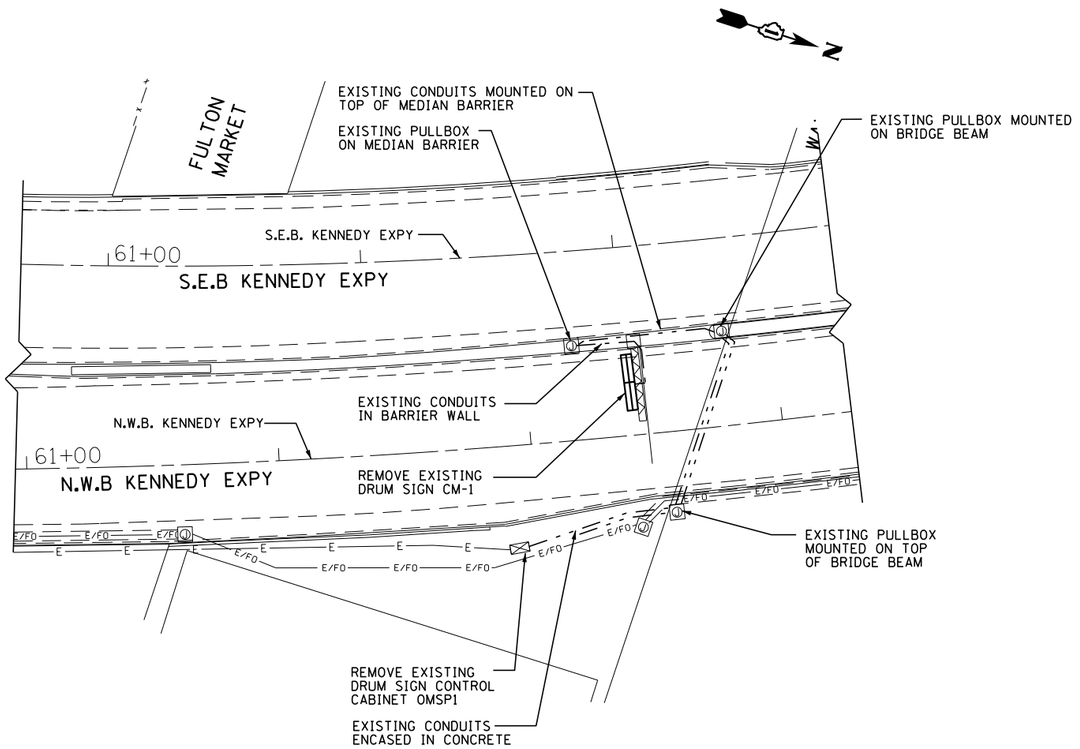
REVLAC DRUM SIGN REPLACEMENT WITH DMS
CONSTRUCTION SEQUENCE FLOWCHART

SCALE: N/A | SHEET OF SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	13

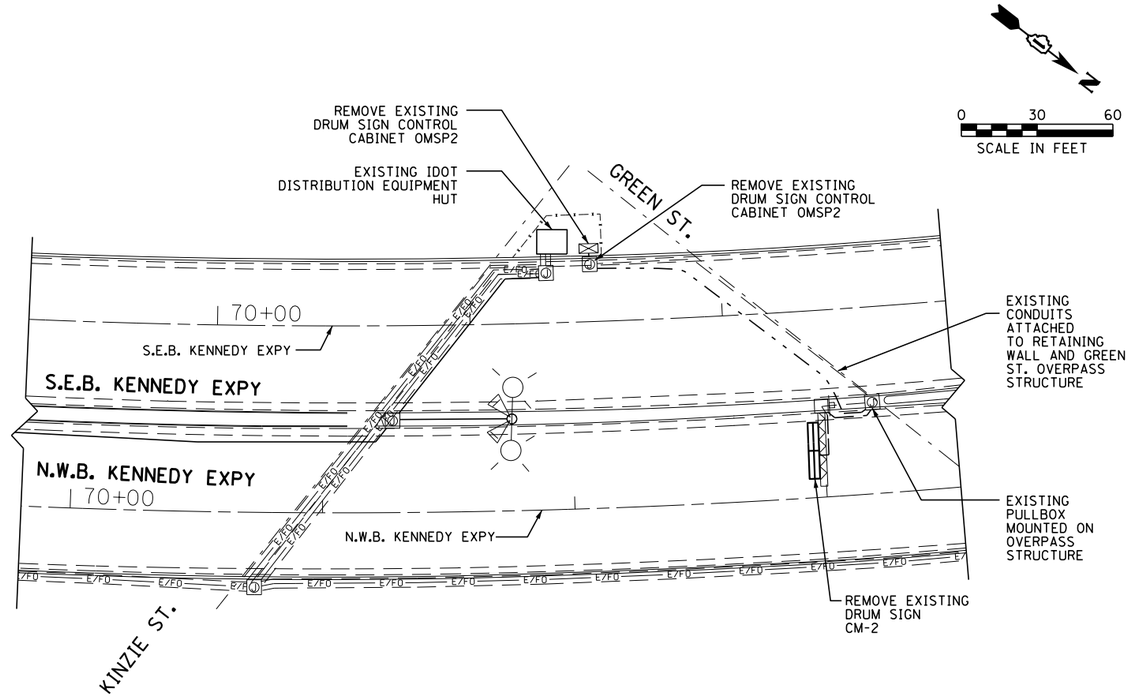
CONTRACT NO. 60T93

ILLINOIS FED. AID PROJECT



DRUM SIGN CM–1: EXISTING LAYOUT

SCALE = 1:30



DRUM SIGN CM–2: EXISTING LAYOUT

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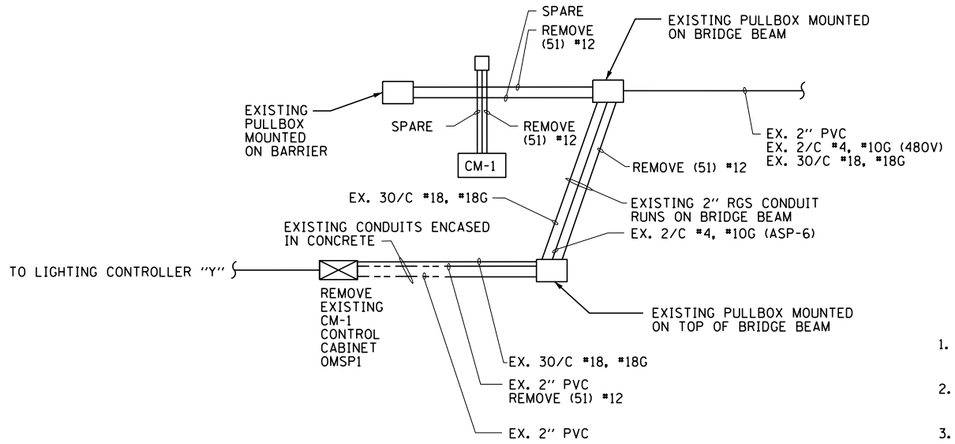
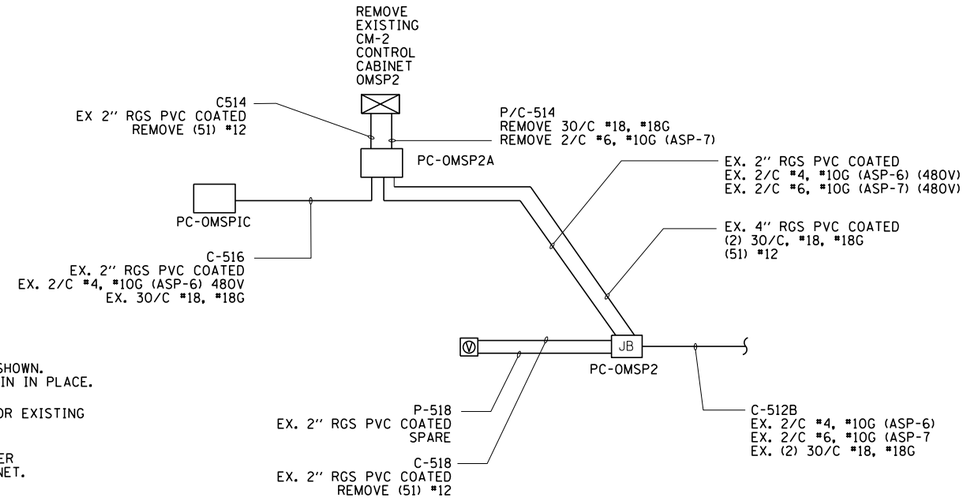


DRUM SIGN CM–1: EXISTING WIRING DIAGRAM

SCALE = NTS

NOTES:

1. REMOVE EXISTING WIRING FROM CONDUIT AS SHOWN. CONDUITS AND JUNCTION BOXES SHOULD REMAIN IN PLACE.
2. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR EXISTING CONDUIT AND WIRING DETAILED INFORMATION.
3. REMOVE AND DISCONNECT LIGHTING CONTROLLER FEED TO EXISTING DRUM SIGN CONTROL CABINET.



DRUM SIGN CM–2: EXISTING WIRING DIAGRAM

SCALE = NTS

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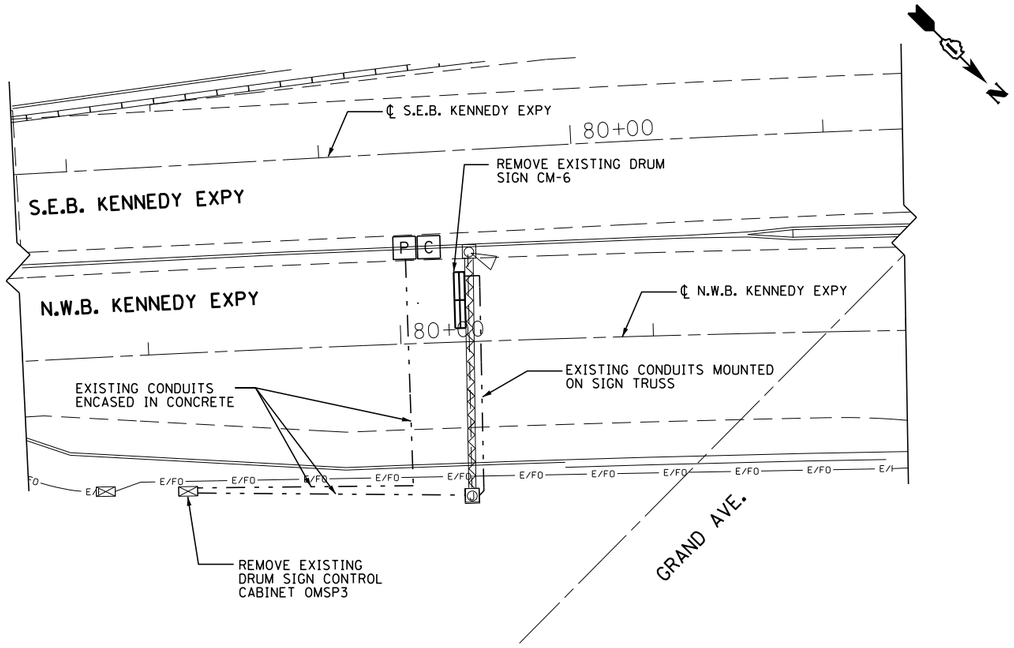
DEPARTMENT OF TRANSPORTATION

EXISTING DRUM SIGN LAYOUT AND ELECTRICAL REMOVAL PLAN

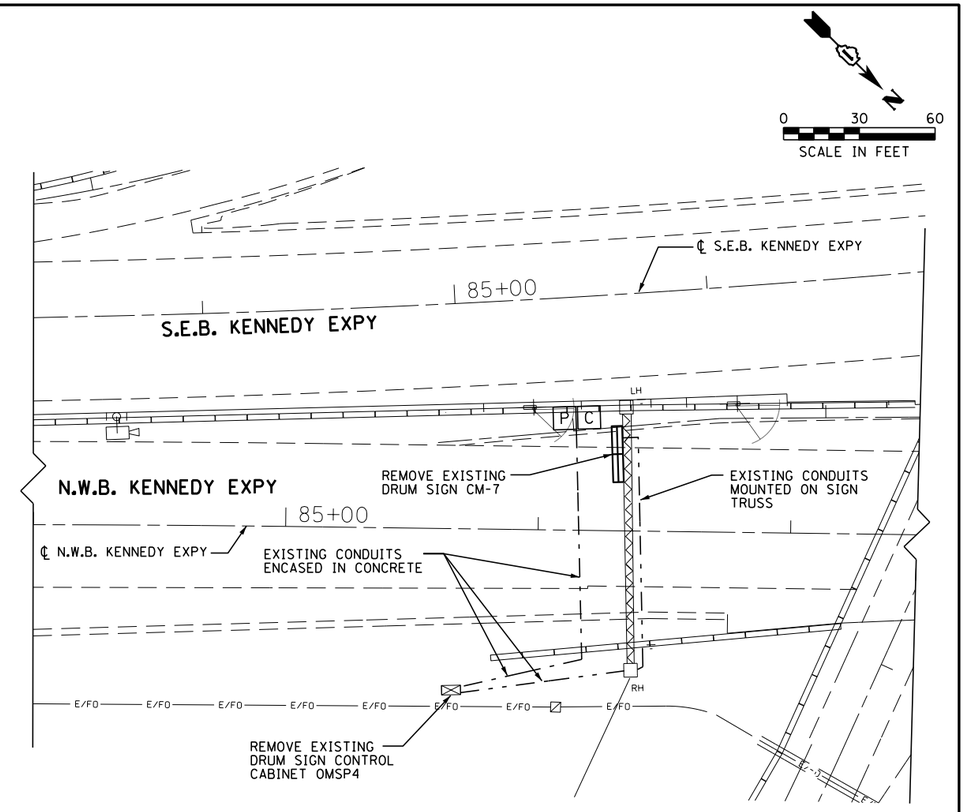
SCALE: 1"=30' | SHEET 1 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	14
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



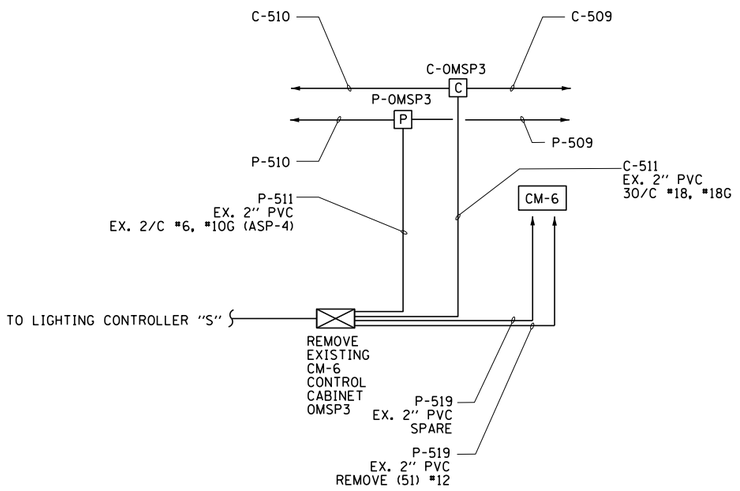
DRUM SIGN CM–6: EXISTING LAYOUT

SCALE = 1:30



DRUM SIGN CM–7: EXISTING LAYOUT

SCALE = 1:30

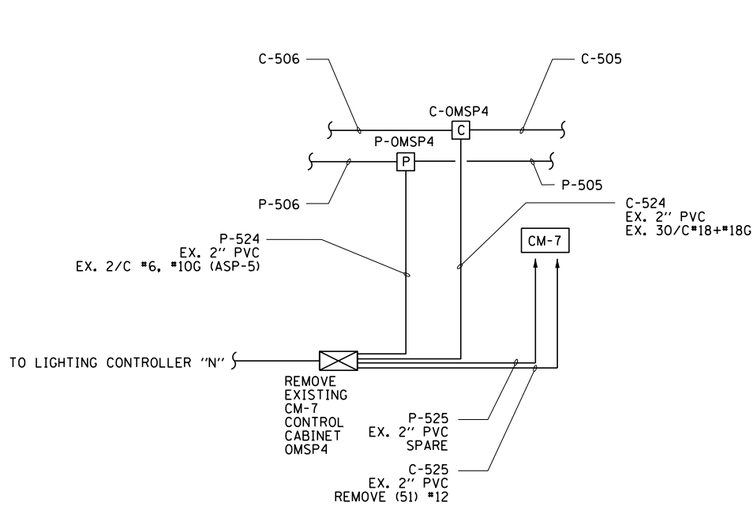


DRUM SIGN CM–6: EXISTING WIRING DIAGRAM

SCALE = NTS

NOTES:

1. REMOVE EXISTING WIRING FROM CONDUIT AS SHOWN. CONDUITS AND JUNCTION BOXES SHOULD REMAIN IN PLACE.
2. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR EXISTING CONDUIT AND WIRING DETAILED INFORMATION.
3. REMOVE AND DISCONNECT LIGHTING CONTROLLER FEED TO EXISTING DRUM SIGN CONTROL CABINET.



DRUM SIGN CM–7: EXISTING WIRING DIAGRAM

SCALE = NTS

J:\293\Task-2\DGN\CADD Sheets\015_D160T93-sht-removal02.dgn

SINGH - ASSOCIATES, INC. CONSULTING ENGINEERS

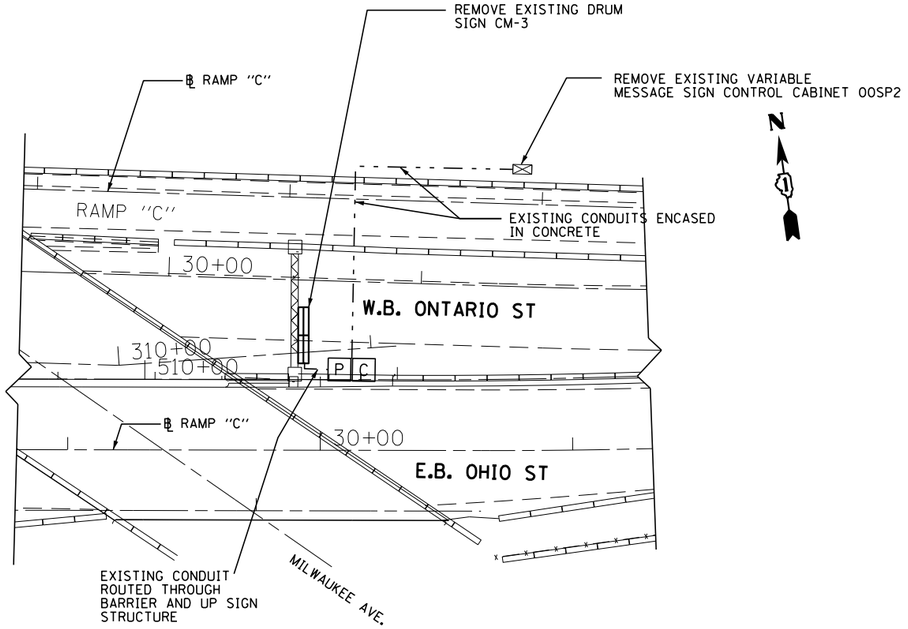
USER NAME = mgarvida	DESIGNED - DJ	REVISED -	
FILE NAME = 015_D160T93-sht-removal02	DRAWN - DS	REVISED -	
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -	
PLOT DATE = 06-MAY-2015 15:02	DATE - 3/2/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRUM SIGN LAYOUT AND ELECTRICAL REMOVAL PLAN

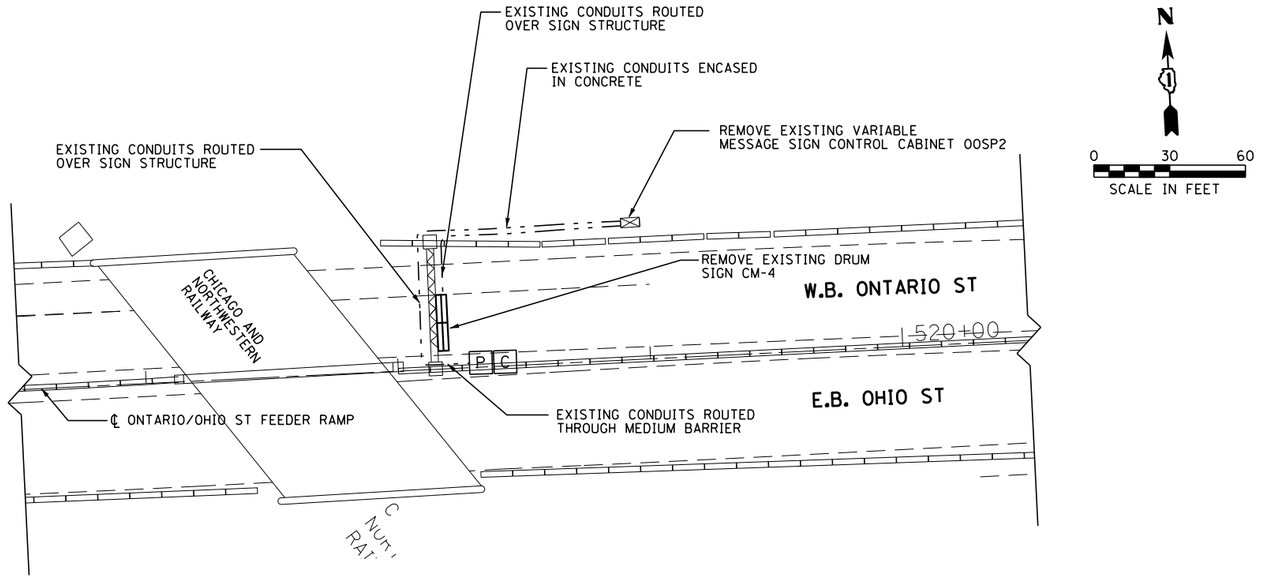
SCALE: 1"=30' | SHEET 2 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	15
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



DRUM SIGN CM–3: EXISTING LAYOUT

SCALE = 1:30

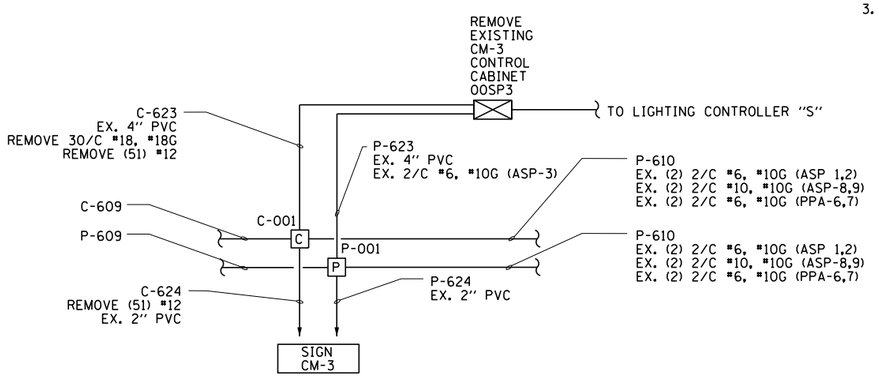


DRUM SIGN CM–4: EXISTING LAYOUT

SCALE = 1:30

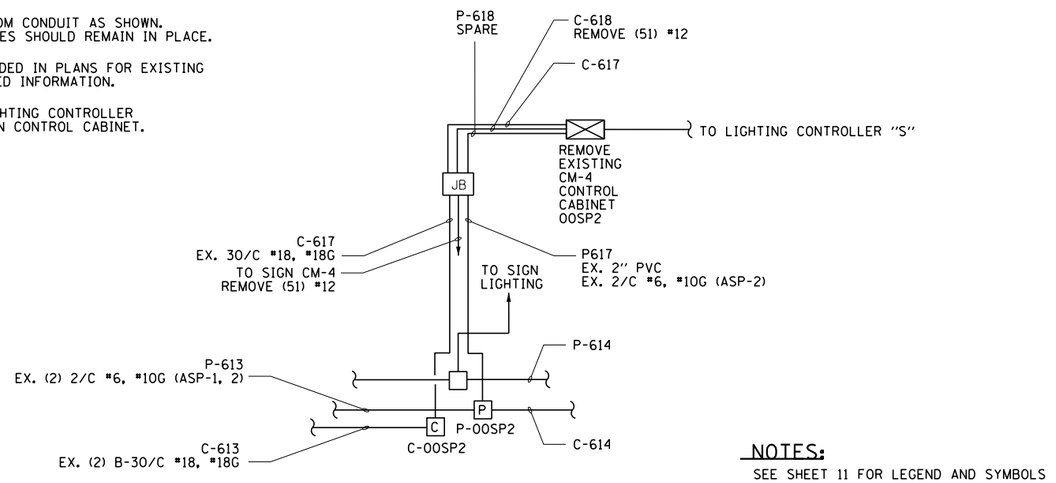
NOTES:

1. REMOVE EXISTING WIRING FROM CONDUIT AS SHOWN. CONDUITS AND JUNCTION BOXES SHOULD REMAIN IN PLACE.
2. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR EXISTING CONDUIT AND WIRING DETAILED INFORMATION.
3. REMOVE AND DISCONNECT LIGHTING CONTROLLER FEED TO EXISTING DRUM SIGN CONTROL CABINET.



DRUM SIGN CM–3: EXISTING WIRING DIAGRAM

SCALE = NTS



DRUM SIGN CM–4: EXISTING WIRING DIAGRAM

SCALE = NTS

NOTES:

SEE SHEET 11 FOR LEGEND AND SYMBOLS

J:\293\Task-2\DGN\CADD Sheets\016_D160T93-sht-removal03.dgn

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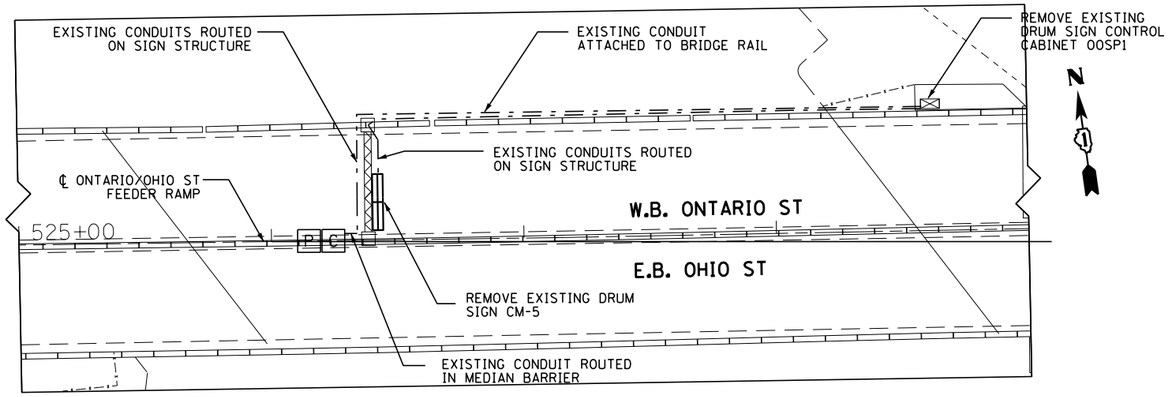
USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 016_D160T93-sht-removal03	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 16:39	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRUM SIGN LAYOUT AND ELECTRICAL REMOVAL PLAN

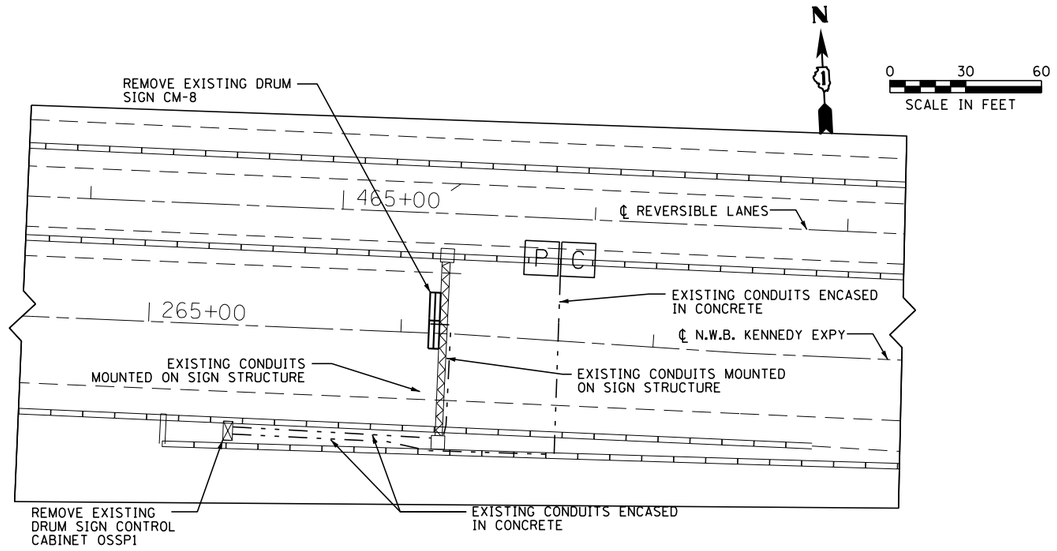
SCALE: 1"=30' | SHEET 3 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	16
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



DRUM SIGN CM–5: EXISTING LAYOUT

SCALE = 1:30

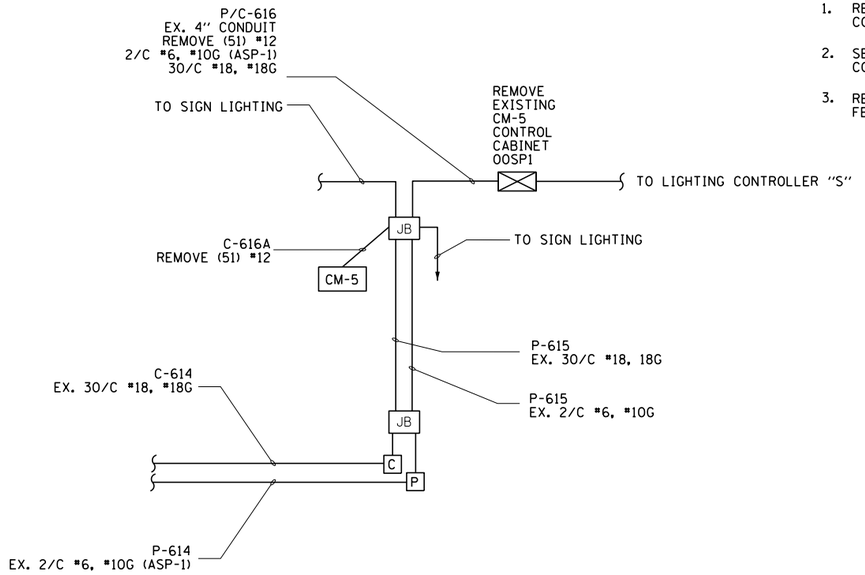


DRUM SIGN CM–8: EXISTING LAYOUT

SCALE = 1:30

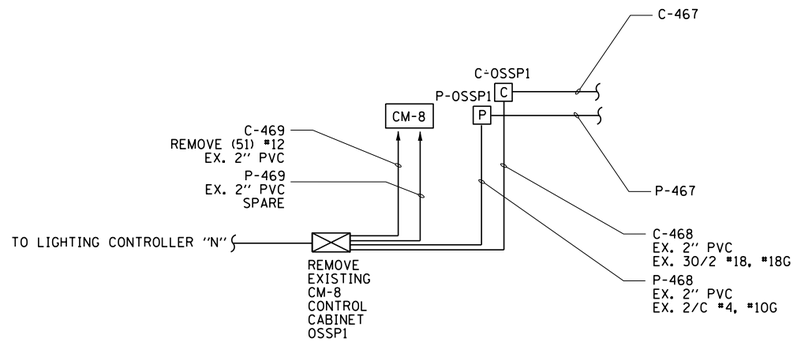
NOTES:

1. REMOVE EXISTING WIRING FROM CONDUIT AS SHOWN. CONDUITS AND JUNCTION BOXES SHOULD REMAIN IN PLACE.
2. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR EXISTING CONDUIT AND WIRING DETAILED INFORMATION.
3. REMOVE AND DISCONNECT LIGHTING CONTROLLER FEED TO EXISTING DRUM SIGN CONTROL CABINET.



DRUM SIGN CM–5: EXISTING WIRING DIAGRAM

SCALE = NTS



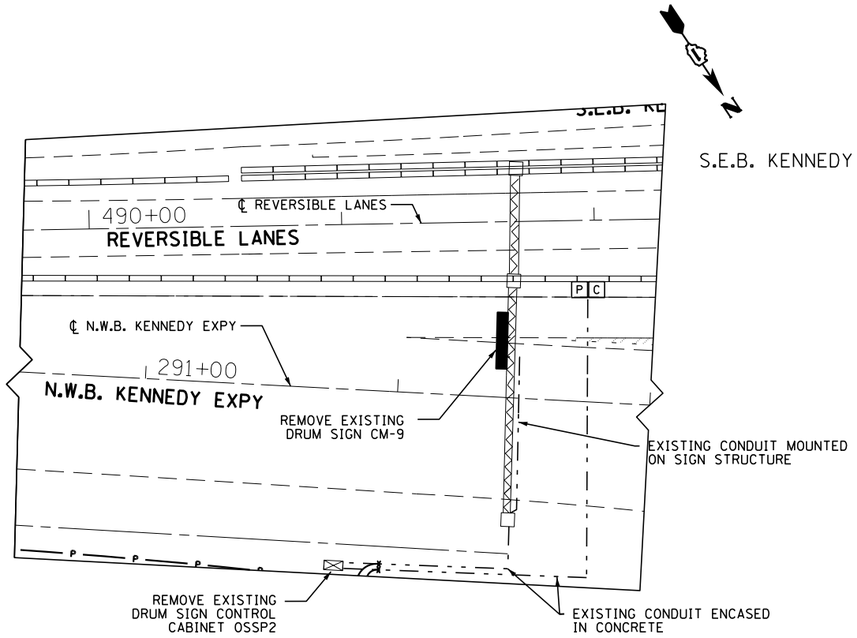
DRUM SIGN CM–8: EXISTING WIRING DIAGRAM

SCALE = NTS

J:\293\Task-2\DGN\CADD Sheets\017_D160T93-sht-removal04.dgn

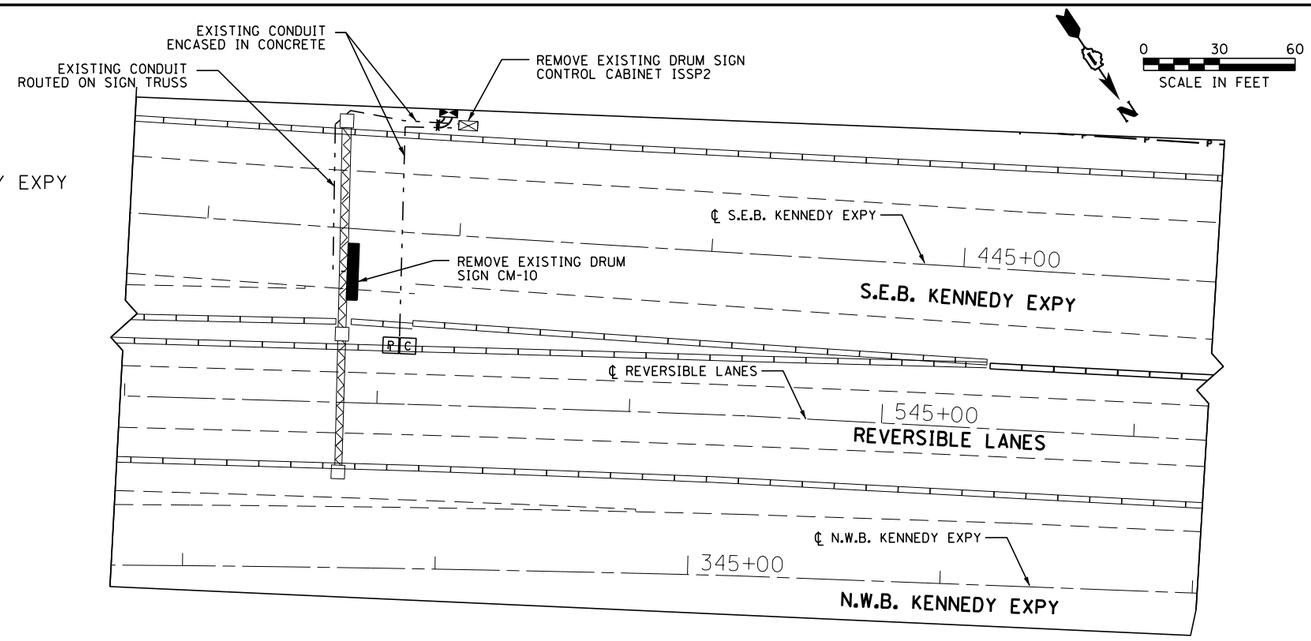
SINGH – SINGH ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = mgarvida	DESIGNED - DJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING DRUM SIGN LAYOUT AND ELECTRICAL REMOVAL PLAN
	FILE NAME = 017_D160T93-sht-removal04	DRAWN - DS	REVISED -		
	PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -		
	PLOT DATE = 06-MAY-2015 15:02	DATE - 3/2/2015	REVISED -		SCALE: 1"=30' SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	17
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



DRUM SIGN CM–9: EXISTING LAYOUT

SCALE = 1:30

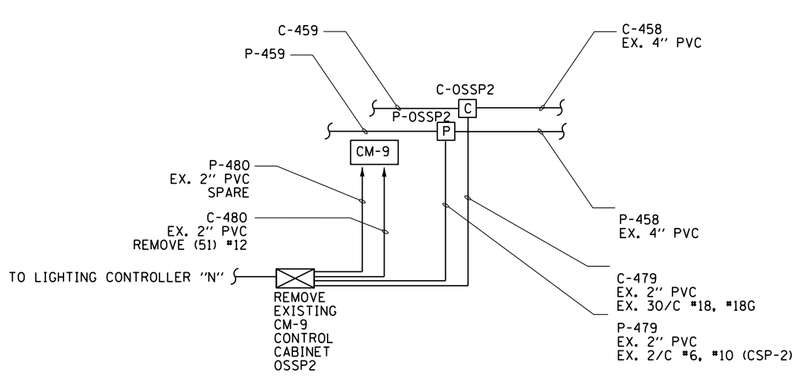


DRUM SIGN CM–10: EXISTING LAYOUT

SCALE = 1:30

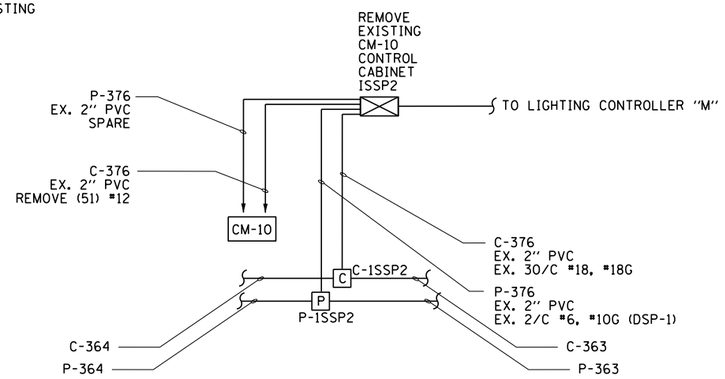
NOTES:

1. REMOVE EXISTING WIRING FROM CONDUIT AS SHOWN. CONDUITS AND JUNCTION BOXES SHOULD REMAIN IN PLACE.
2. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR EXISTING CONDUIT AND WIRING DETAILED INFORMATION.
3. REMOVE AND DISCONNECT LIGHTING CONTROLLER FEED TO EXISTING DRUM SIGN CONTROL CABINET.



DRUM SIGN CM–9: EXISTING WIRING DIAGRAM

SCALE = NTS



DRUM SIGN CM–10: EXISTING WIRING DIAGRAM

SCALE = NTS

J:\293\Task-2\DGN\CADD Sheets\018_D160T93-sht-removal05.dgn

SINGH – ASSOCIATES, INC.
CONSULTING ENGINEERS

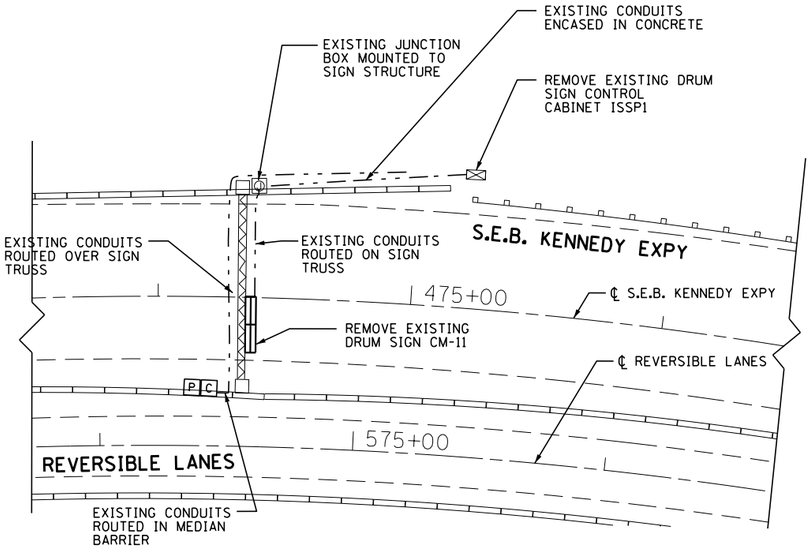
USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 018_D160T93-sht-removal05	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:02	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRUM SIGN LAYOUT REPLACEMENT AND CCTV PLANS

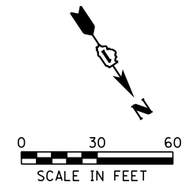
SCALE: 1"=30' | SHEET 5 OF 8 SHEETS | STA. | TO STA.

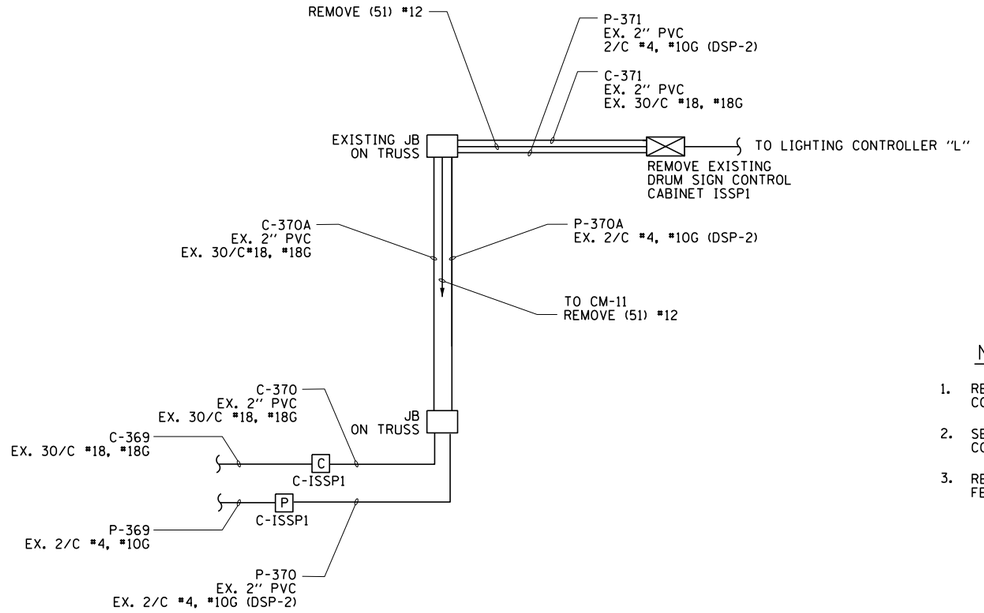
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	18
		CONTRACT NO. 60T93		
		ILLINOIS FED. AID PROJECT		



DRUM SIGN CM–11: EXISTING LAYOUT

SCALE = 1:30





DRUM SIGN CM–11: EXISTING WIRING DIAGRAM

SCALE = NTS

NOTES:

1. REMOVE EXISTING WIRING FROM CONDUIT AS SHOWN. CONDUITS AND JUNCTION BOXES SHOULD REMAIN IN PLACE.
2. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR EXISTING CONDUIT AND WIRING DETAILED INFORMATION.
3. REMOVE AND DISCONNECT LIGHTING CONTROLLER FEED TO EXISTING DRUM SIGN CONTROL CABINET.

J:\293\Task-2\DGN\CADD Sheets\019_D160T93-sht-removal06.dgn

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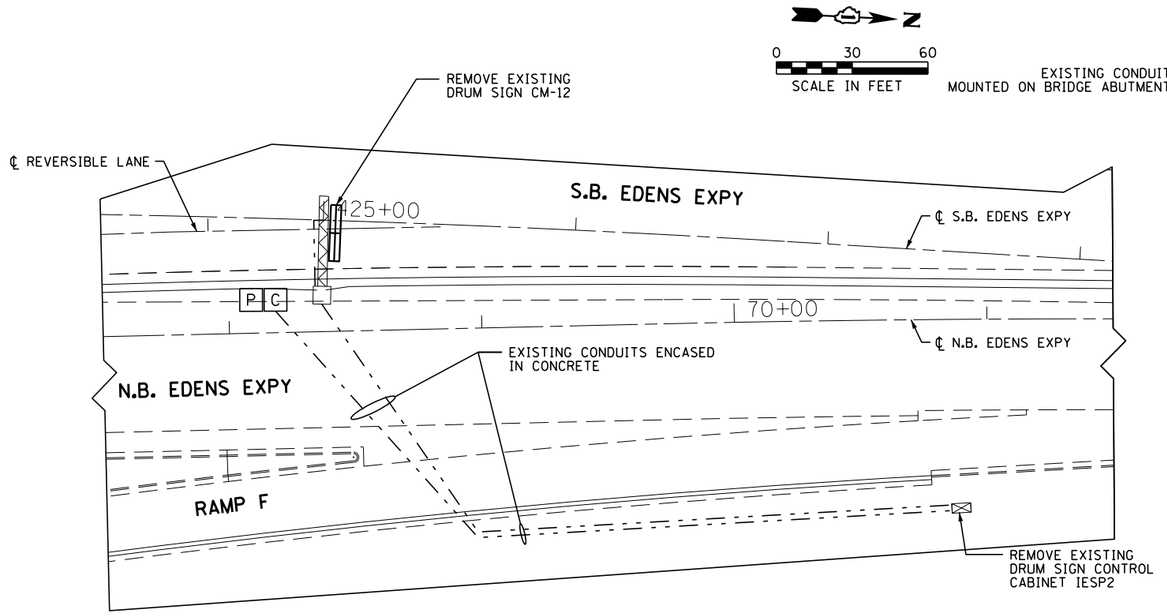
USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 019_D160T93-sht-removal06	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 16:52	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRUM SIGN LAYOUT AND ELECTRICAL REMOVAL PLAN

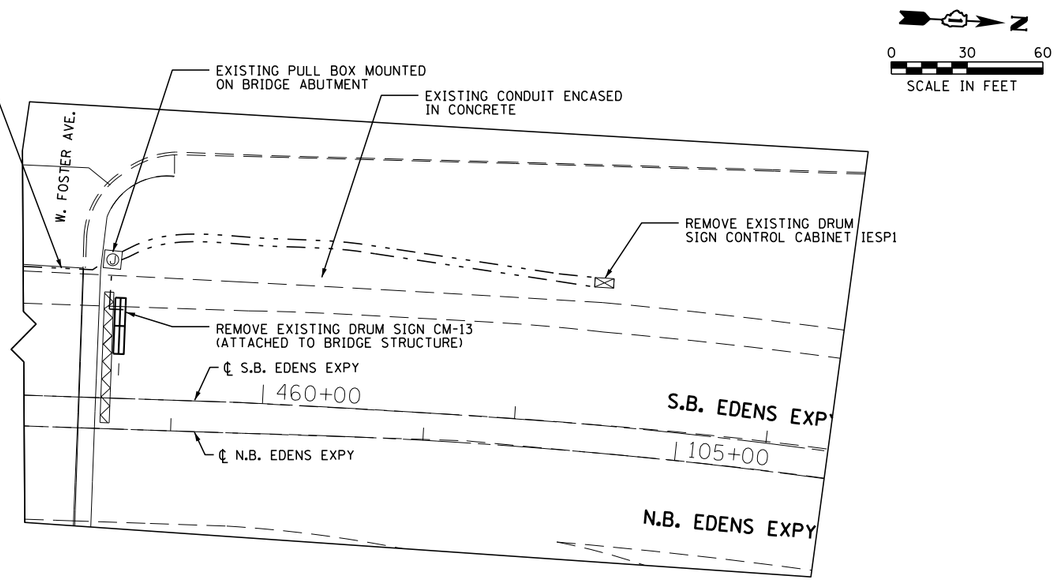
SCALE: 1"=30' | SHEET 6 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	19
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



DRUM SIGN CM–12: EXISTING LAYOUT

SCALE = 1:30

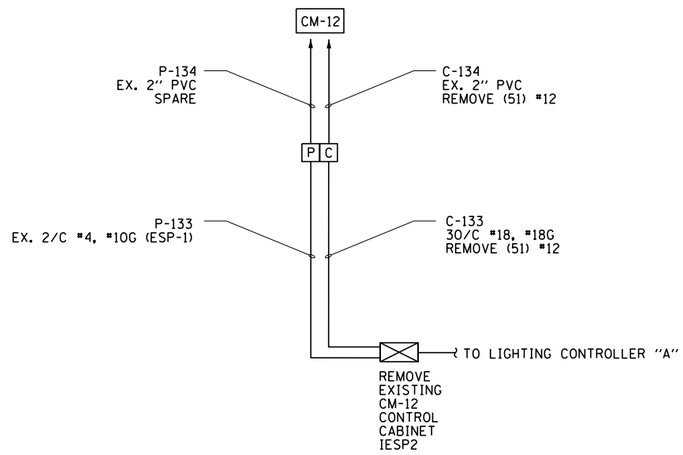


DRUM SIGN CM–13: EXISTING LAYOUT

SCALE = 1:30

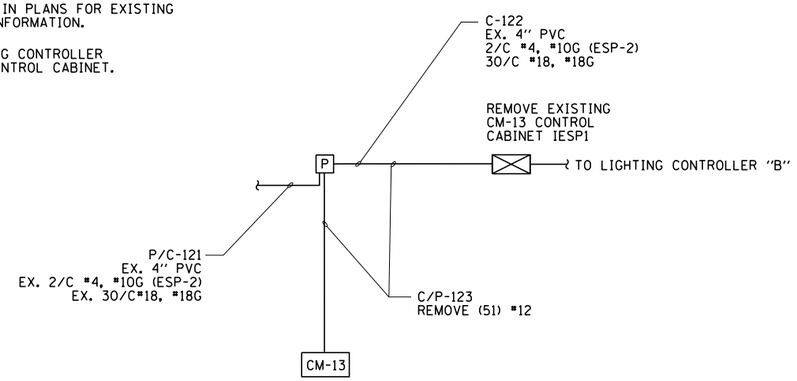
NOTES:

1. REMOVE EXISTING WIRING FROM CONDUIT AS SHOWN. CONDUITS AND JUNCTION BOXES SHOULD REMAIN IN PLACE.
2. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR EXISTING CONDUIT AND WIRING DETAILED INFORMATION.
3. REMOVE AND DISCONNECT LIGHTING CONTROLLER FEED TO EXISTING DRUM SIGN CONTROL CABINET.



DRUM SIGN CM–12: EXISTING WIRING DIAGRAM

SCALE = NTS



DRUM SIGN CM–13: EXISTING WIRING DIAGRAM

SCALE = NTS

J:\293\Task-2\DGN\CADD Sheets\020_DI60T93-sht-removal07.dgn

SINGH – ASSOCIATES, INC. CONSULTING ENGINEERS

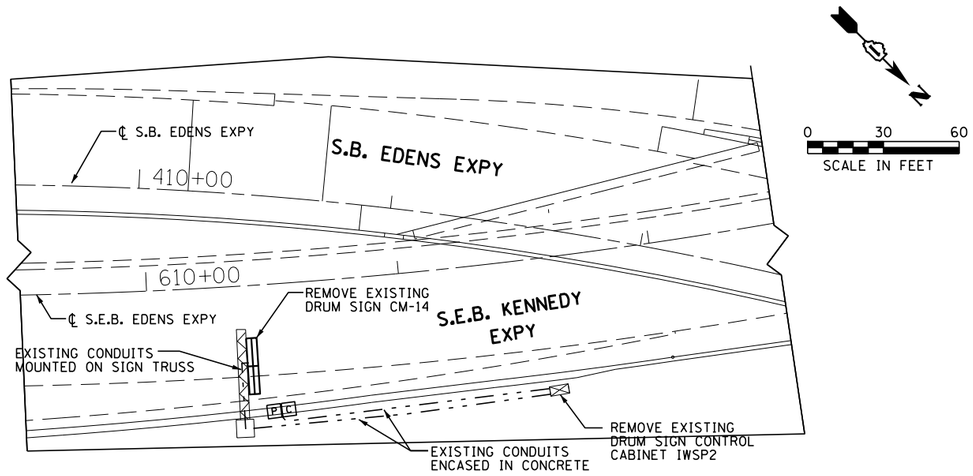
USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 020_DI60T93-sht-removal07	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:02	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRUM SIGN LAYOUT AND ELECTRICAL REMOVAL PLAN

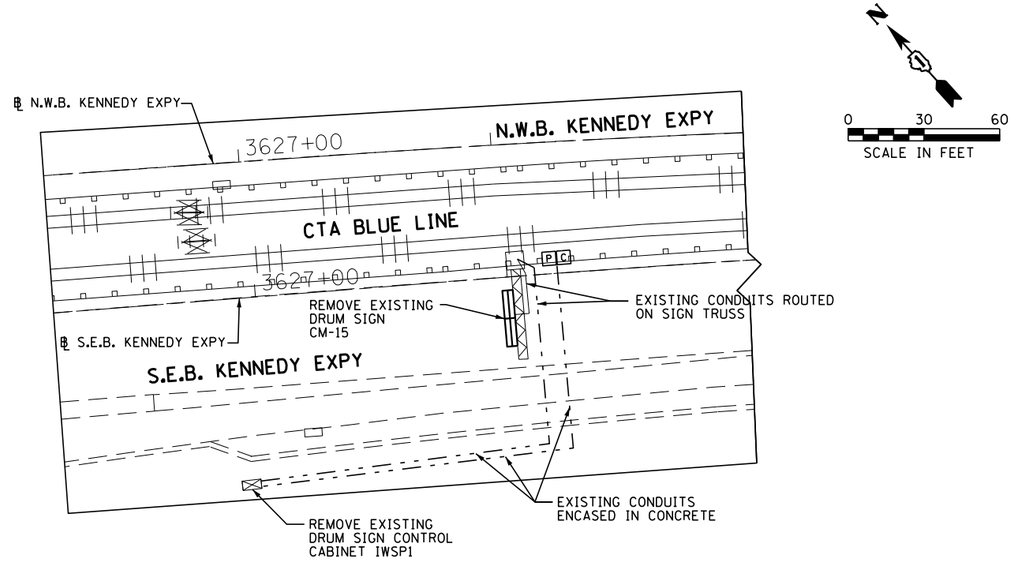
SCALE: 1"=30' | SHEET 7 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	20
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



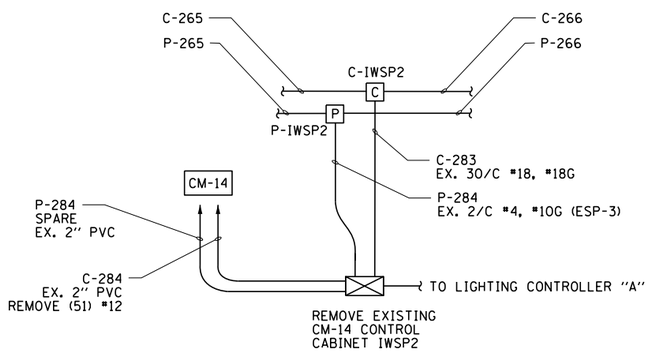
DRUM SIGN CM–14: EXISTING LAYOUT

SCALE = 1:30



DRUM SIGN CM–15: EXISTING LAYOUT

SCALE = 1:30

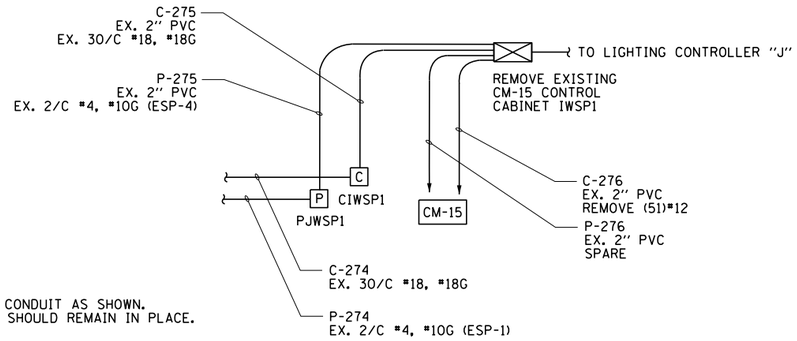


DRUM SIGN CM–14: EXISTING WIRING DIAGRAM

SCALE = NTS

NOTES:

1. REMOVE EXISTING WIRING FROM CONDUIT AS SHOWN. CONDUITS AND JUNCTION BOXES SHOULD REMAIN IN PLACE.
2. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR EXISTING CONDUIT AND WIRING DETAILED INFORMATION.
3. REMOVE AND DISCONNECT LIGHTING CONTROLLER FEED TO EXISTING DRUM SIGN CONTROL CABINET.



DRUM SIGN CM–15: EXISTING WIRING DIAGRAM

SCALE = NTS

J:\293\Task-2\DGN\CADD Sheets\021_D160T93-sht-removal08.dgn

SINGH – ASSOCIATES, INC.
CONSULTING ENGINEERS

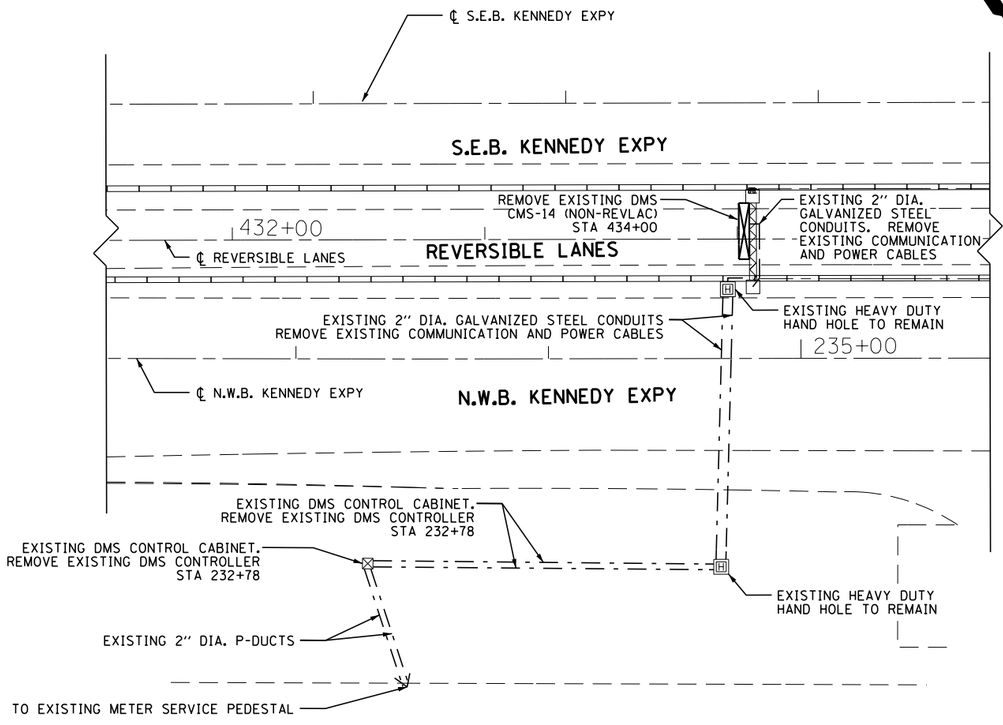
USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 021_D160T93-sht-removal08	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:02	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRUM SIGN LAYOUT AND ELECTRICAL REMOVAL PLAN

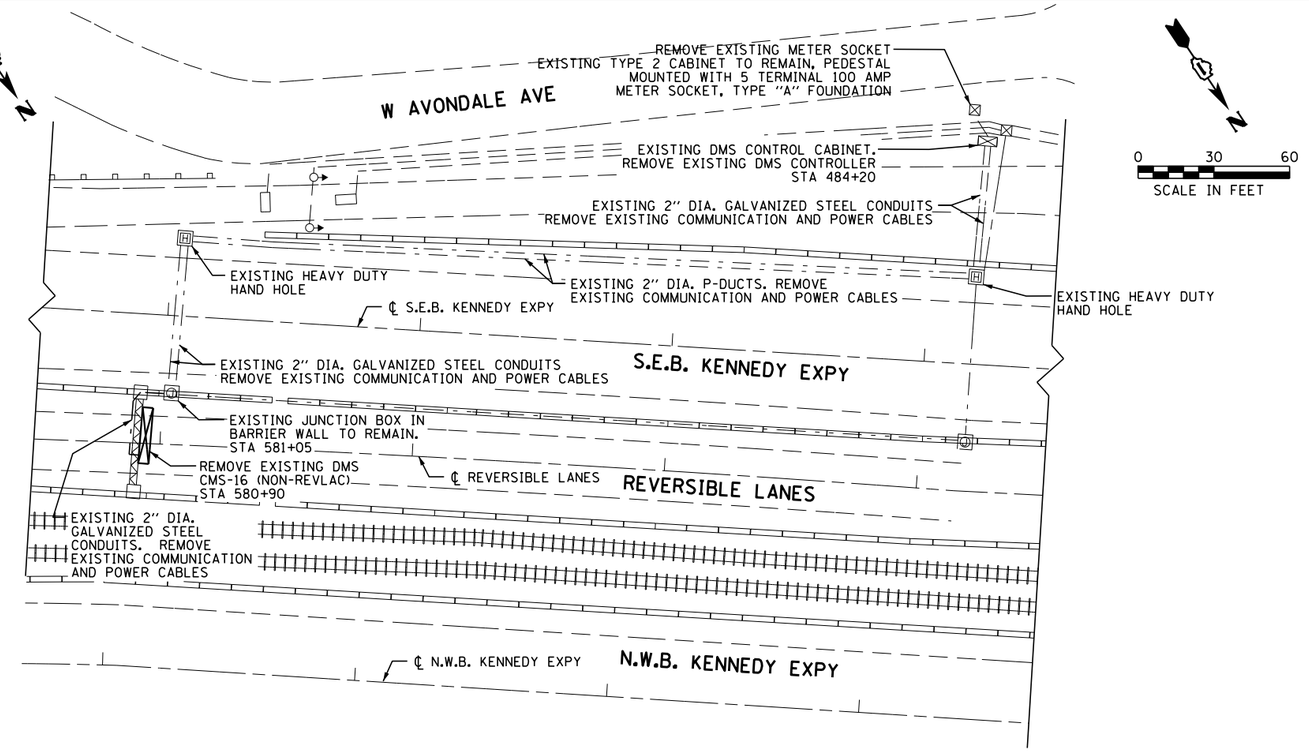
SCALE: 1"=30' | SHEET 8 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	21
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



CMS–14 (NON–REVLAC DMS)

SCALE = 1:30

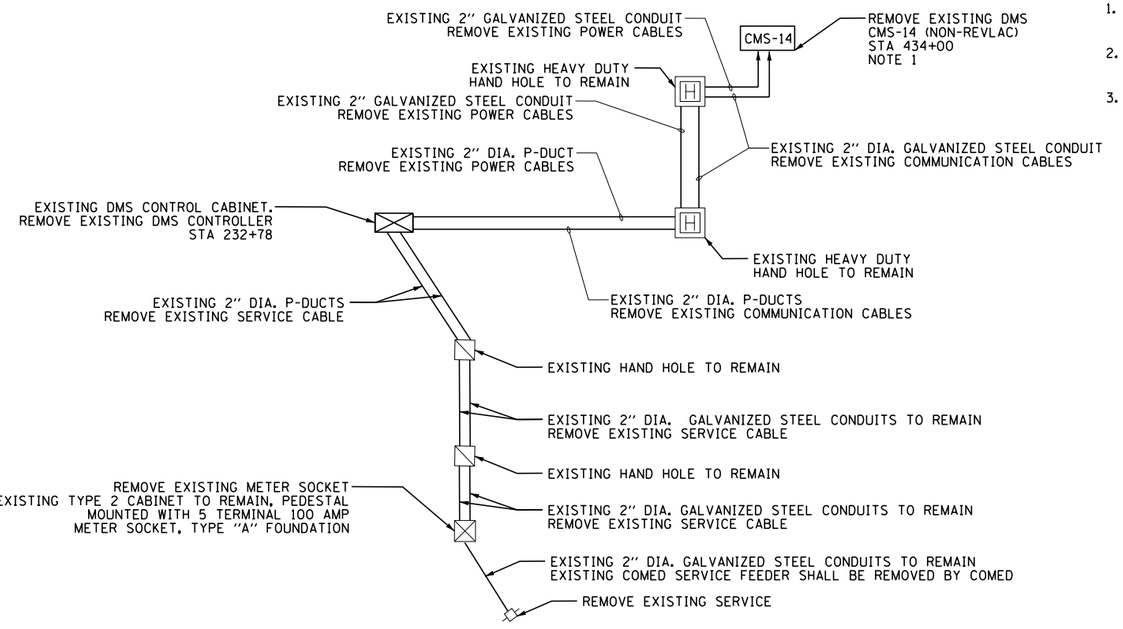


CMS–16 (NON–REVLAC DMS)

SCALE = 1:30

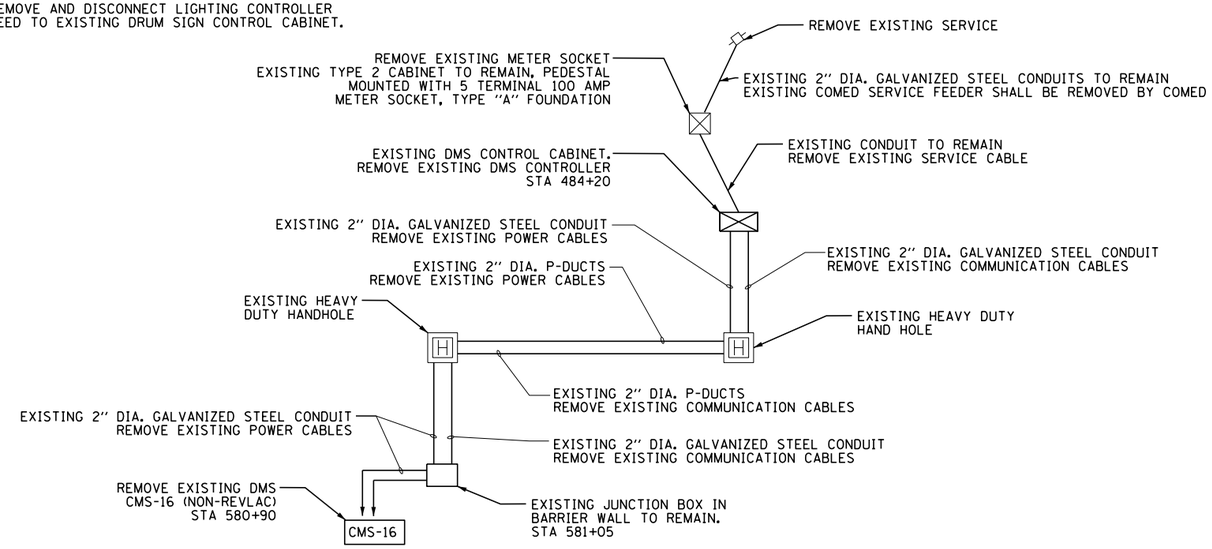
NOTES:

1. REMOVE EXISTING WIRING FROM CONDUIT AS SHOWN. CONDUITS AND JUNCTION BOXES SHOULD REMAIN IN PLACE.
2. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR EXISTING CONDUIT AND WIRING DETAILED INFORMATION.
3. REMOVE AND DISCONNECT LIGHTING CONTROLLER FEED TO EXISTING DRUM SIGN CONTROL CABINET.



DMS CMS–14 (NON–REVLAC) EXISTING WIRING DIAGRAM

SCALE = NTS



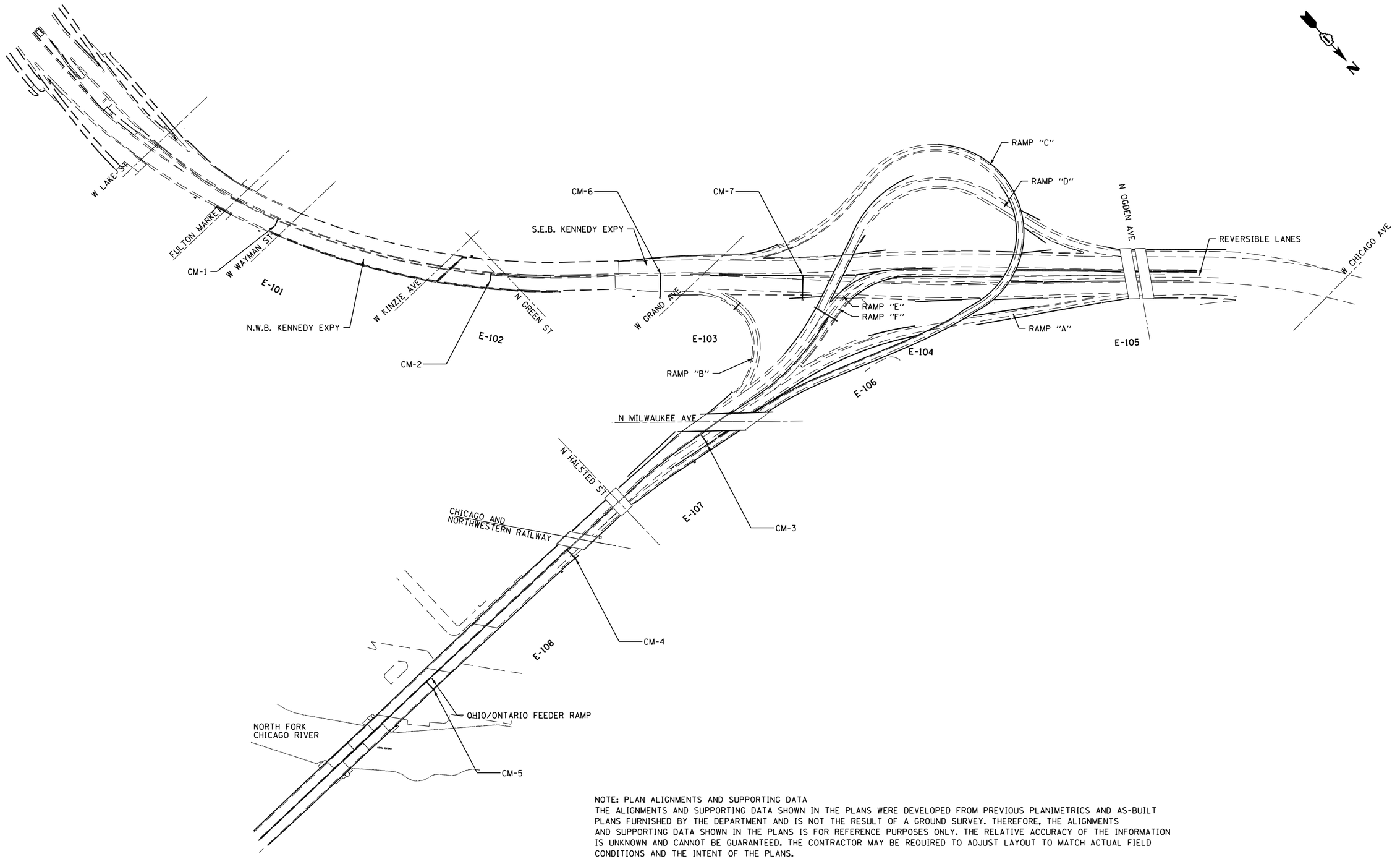
DMS CMS–16 (NON–REVLAC) EXISTING WIRING DIAGRAM

SCALE = NTS

SINGH – SINGH - ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = mgarvida	DESIGNED - DJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING NON–REVLAC DMS SYSTEM LAYOUT AND ELECTRICAL REMOVAL PLAN
	FILE NAME = 022_D160T93-sht-removal09	DRAWN - DS	REVISED -		SCALE: 1"=30' SHEET 1 OF 1 SHEETS STA. TO STA.
	PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -		
	PLOT DATE = 06-MAY-2015 15:02	DATE - 3/2/2015	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	22
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

J:\293\Task-2\DGN\CADD Sheets\022_D160T93-sht-removal09.dgn



NOTE: PLAN ALIGNMENTS AND SUPPORTING DATA
THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS WERE DEVELOPED FROM PREVIOUS PLANIMETRICS AND AS-BUILT PLANS FURNISHED BY THE DEPARTMENT AND IS NOT THE RESULT OF A GROUND SURVEY. THEREFORE, THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS IS FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUIRED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS.

0 200 400
SCALE IN FEET

E-100

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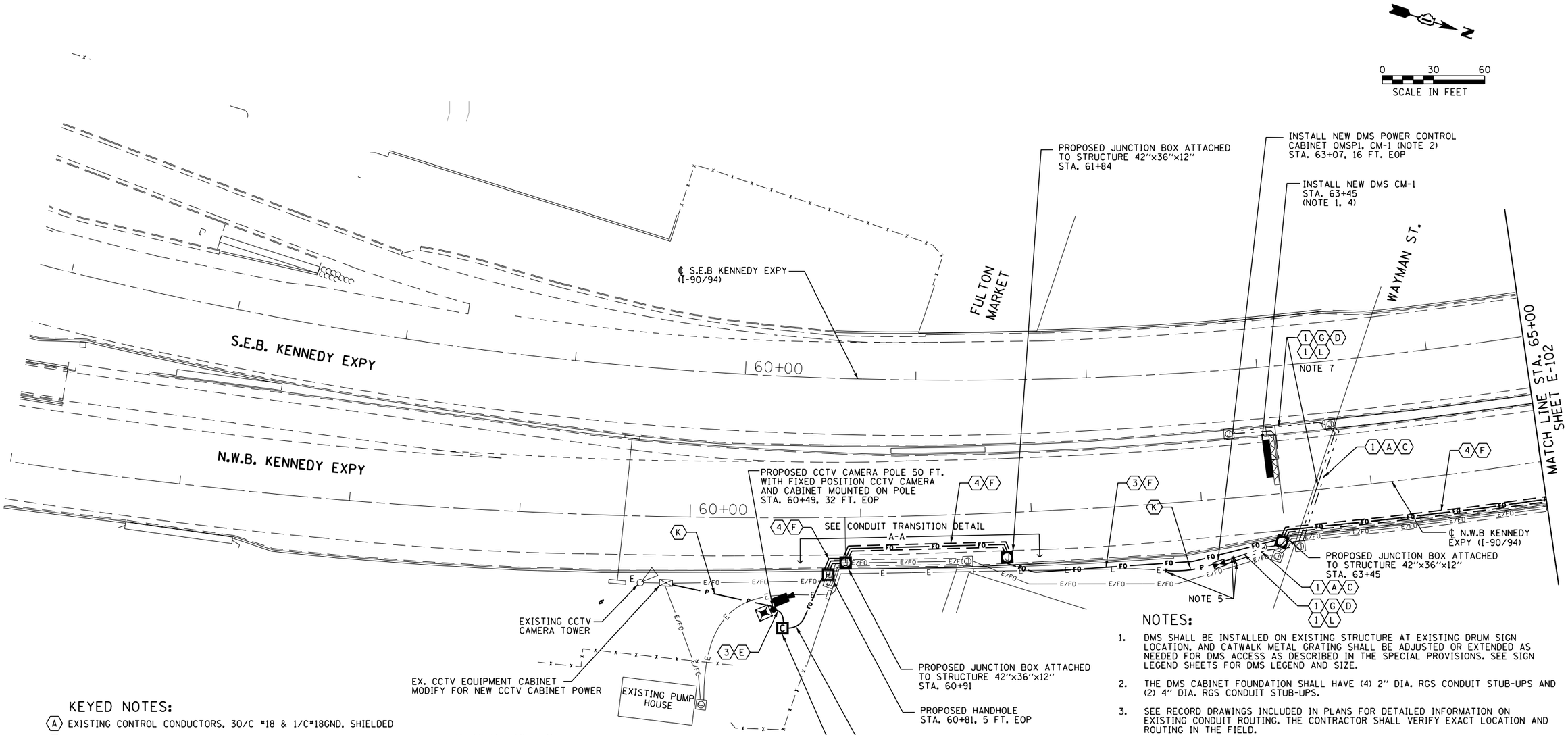
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. BOUND ONTARIO ST. AND N.W. BOUND KENNEDY RAMPS – KEY MAPS

SCALE: 1"=200' | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	23
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET, UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

E-101

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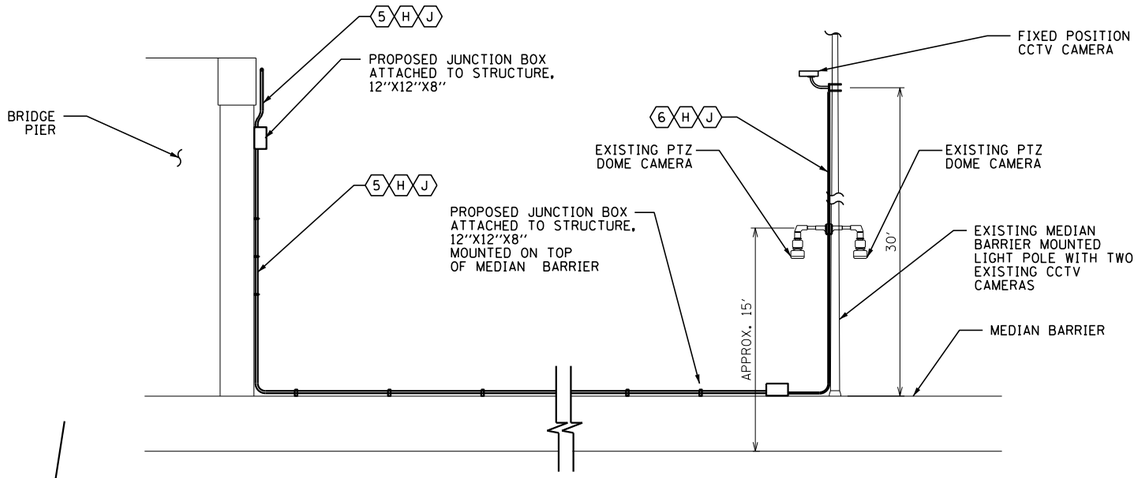
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

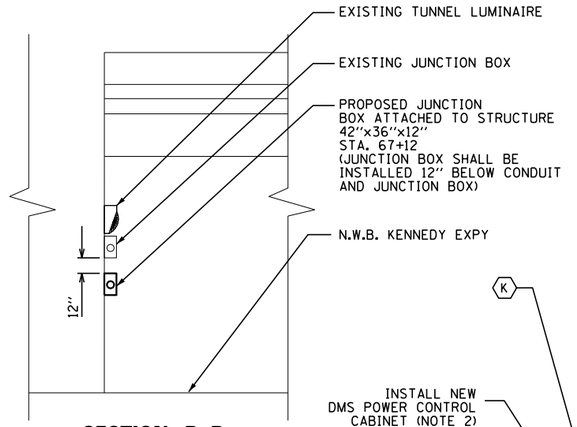
DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND KENNEDY MAINLINE (CM-1)

SCALE: 1"=30' | SHEET 1 OF 4 SHEETS | STA. | TO STA.

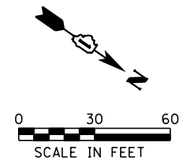
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	24
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

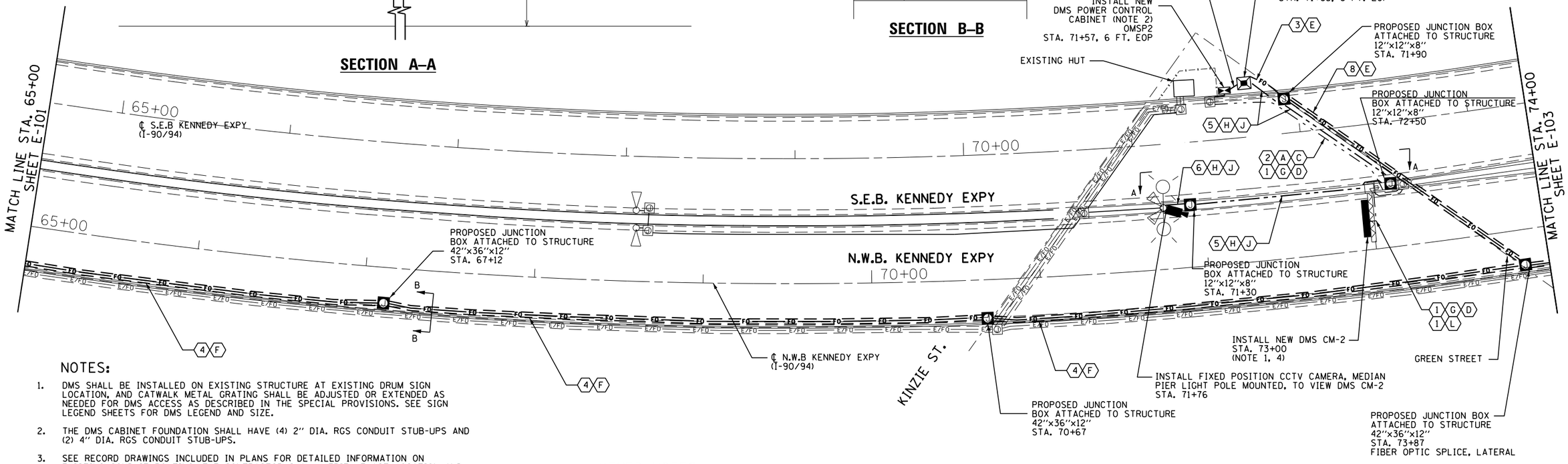


SECTION A–A



SECTION B–B





NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET. UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
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- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
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- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
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- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

E-102

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND KENNEDY MAINLINE (CM-2)

SCALE: 1"=30' | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	25
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

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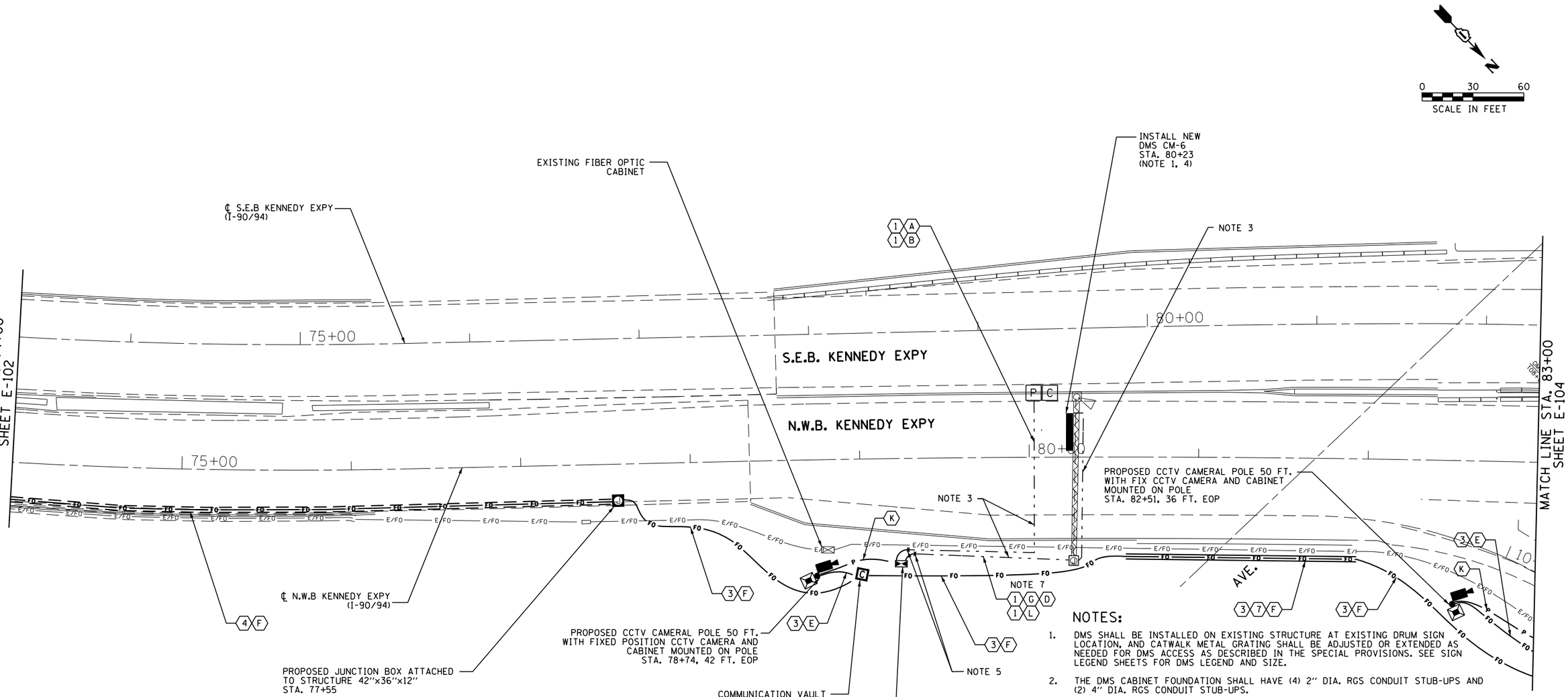

KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
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- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
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- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
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8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

E-103

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND KENNEDY MAINLINE (CM-6)

SCALE: 1"=30' | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	26
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
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- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

0 30 60
SCALE IN FEET

℄ RAMP "C"
RAMP "C"
℄ S.E.B KENNEDY EXPY (I-90/94)
S.E.B. KENNEDY EXPY
80+00
85+00
90+00
120+00
MATCH LINE STA. 83+00 SHEET E-103
MATCH LINE STA. 92+00 SHEET E-105
REVERSIBLE LANES RAMP "E"
N.W.B. KENNEDY EXPY
P.C.
INSTALL NEW DMS CM-7, STA. 86+31 (NOTE 1, 4)
NOTE 3
NOTE 5
NOTE 7
℄ N.W.B KENNEDY EXPY (I-90/94)
REMOTE BUILDING "A" INSTALL (2) FIBER SEE DETAIL ON SHEET 60 FOR DETAILS
EXISTING JUNCTION BOX ATTACHED TO STRUCTURE
PROPOSED HANDHOLE
INSTALL NEW DMS POWER CONTROL CABINET OMSP4 (NOTE 2) STA. 85+80, 40 FT. EOP
RAMP "B"
RAMP "D"
RAMP "E"
RAMP "F"
℄ RAMP "D"
℄ RAMP "E"
℄ RAMP "F"
COMMUNICATIONS VAULT STA. 110+95, 20 FT. EOP FIBER OPTIC CABLE SPLICE, LATERAL
MATCH LINE STA. 12+50 SEE SHEET E-106
MATCH LINE STA. 24+00 SEE SHEET E-106
PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE 42"x36"x12"

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
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9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

E-104

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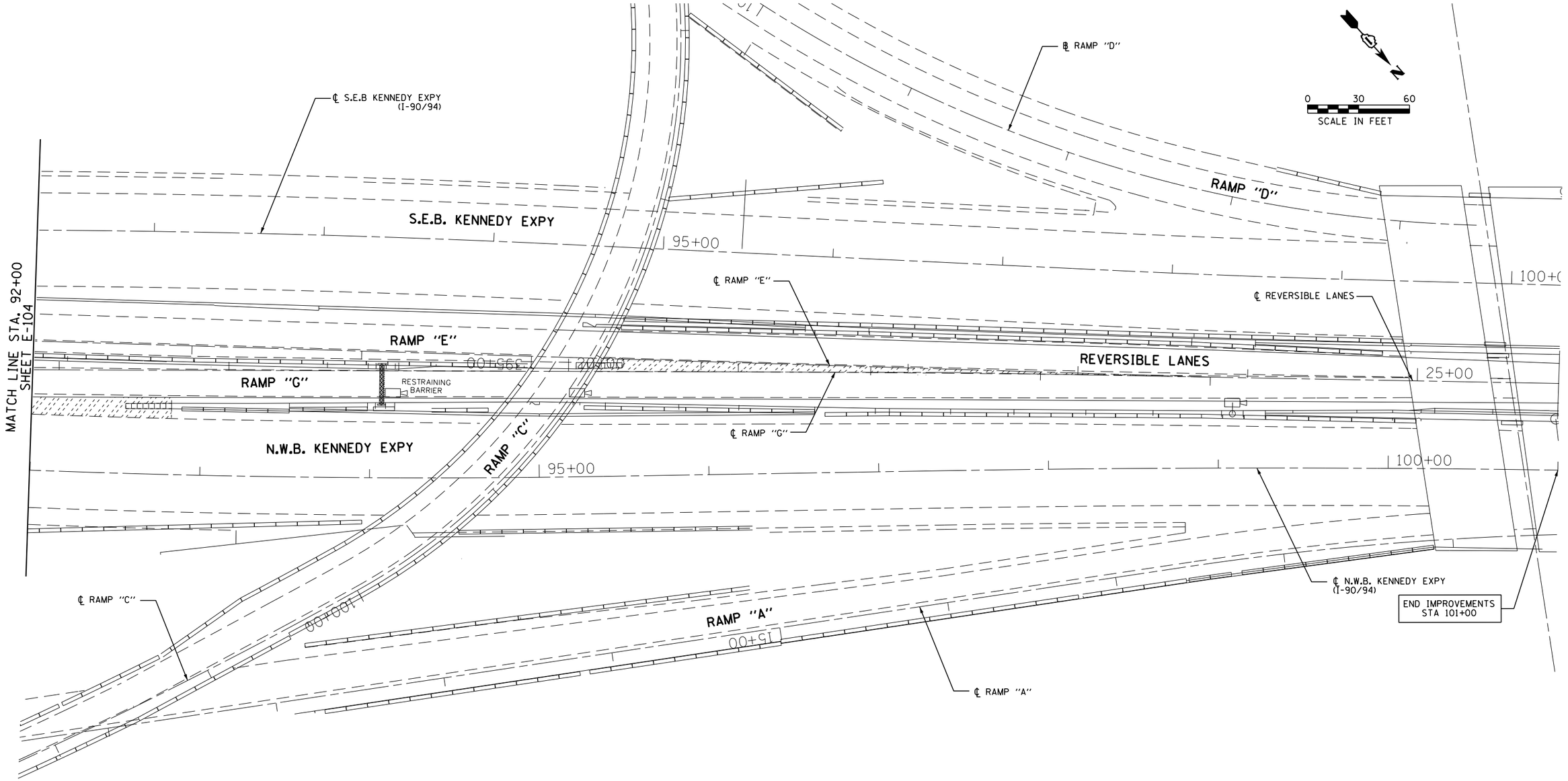
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND KENNEDY MAINLINE (CM-7)

SCALE: 1"=30' | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	27
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



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E-105

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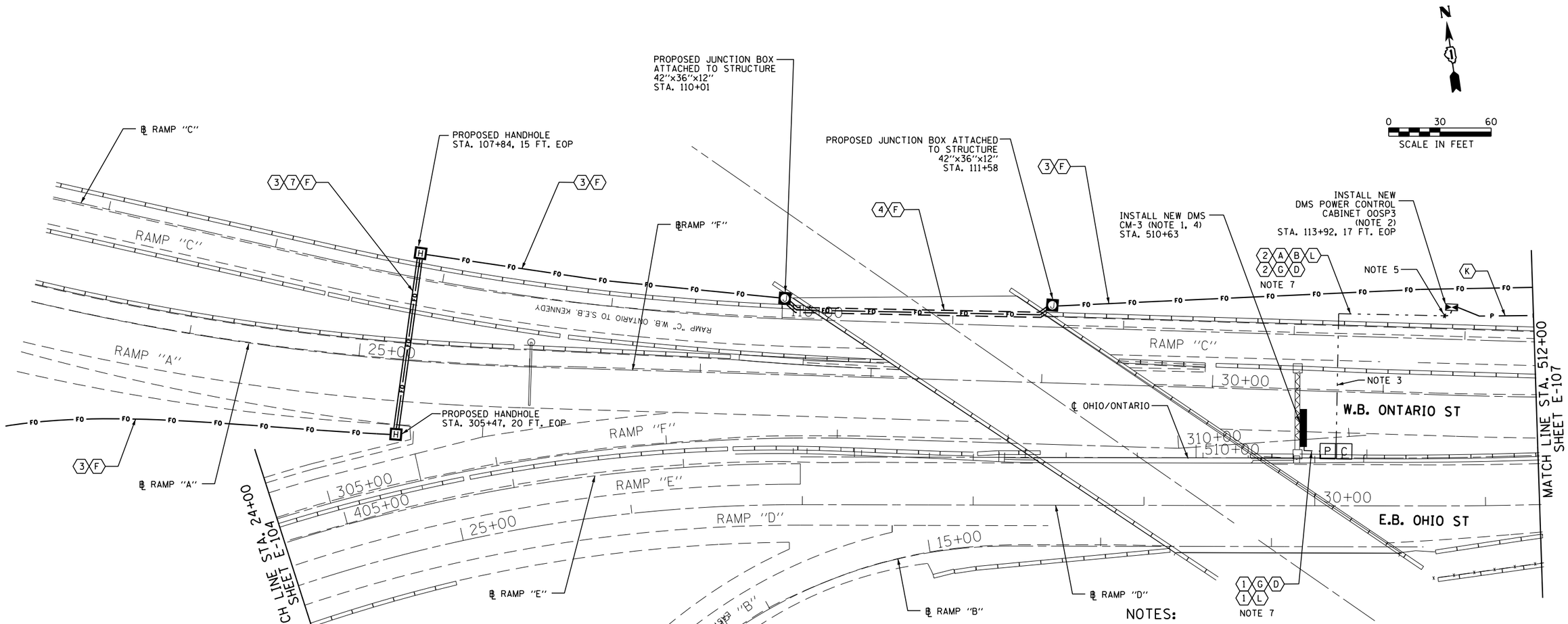
PLOT DATE = 06-MAY-2015 15:02	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND ONTARIO FEEDER RAMP

SCALE: 1"=30' | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	28
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		



KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET, MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET, UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

E-106

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USER NAME = mgarvida	DESIGNED - DJ	REVISED -	
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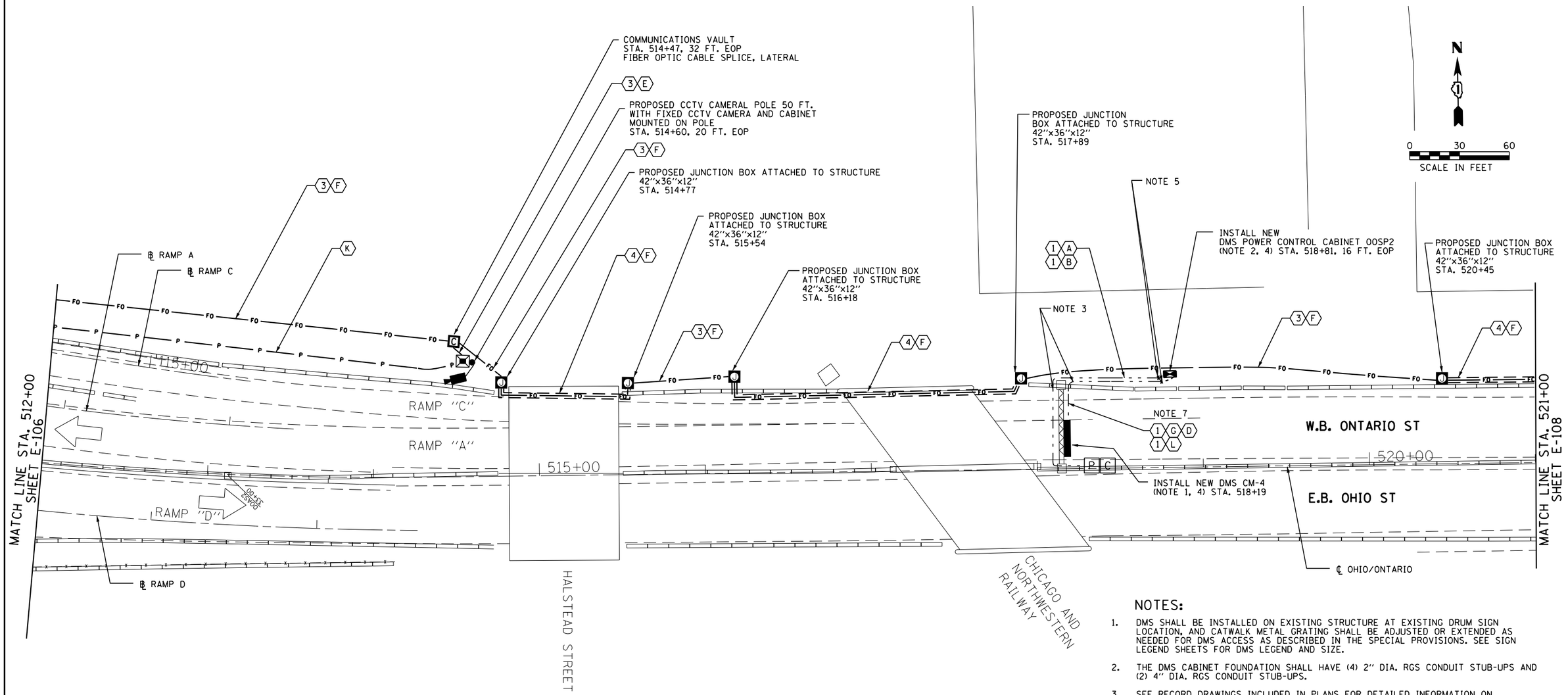
PLOT DATE = 06-MAY-2015 15:02	DATE - 3/2/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND ONTARIO FEEDER RAMP (CM-3)

SCALE: 1"=30' | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	29
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
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7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

E-107

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USER NAME = mgarvida	DESIGNED - DJ	REVISED -	
FILE NAME = 030_D160T93-sht-plan107	DRAWN - DS	REVISED -	
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND ONTARIO FEEDER RAMP (CM-4)

SCALE: 1"=30' | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	30
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

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NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
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KEYED NOTES:

(A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
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(E) FIBER OPTIC CABLE 12 SINGLE MODE
(F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
(G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
(H) COAXIAL CABLE, RG-6
(J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
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(M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

(1) EXISTING CONDUIT, 2"
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(6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
(7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
(8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

N

0 30 60
SCALE IN FEET

MATCH LINE STA. 521+00
SHEET E-107

W.B. ONTARIO ST
E.B. OHIO ST
℄ OHIO/ONTARIO
525+00
CHICAGO RIVER

INSTALL NEW DMS CM-5 (NOTE 1, 4) STA. 526+40
NOTE 3
NOTE 7
PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE 42"x36"x12" STA. 522+55 FIBER OPTIC CABLE SPLICE, LATERAL
EXISTING "ICE" BEACON FLASHER
MODIFY EXISTING SURVEILLANCE CABINET S34 FOR CCTV POWER
SEE AREA "B" DETAIL THIS SHEET
PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE 12"x12"x8" STA. 523+23
PROPOSED CCTV CAMERAL POLE 80 FT. WITH FIXED POSITION CCTV CAMERA AND PTZ DOME CAMERA MOUNTED AT 80 FT. ON DUAL LOWERING DEVICES, CCTV CABINET MOUNTED ON POLE STA. 523+30, 8 FT. EOP
COMMUNICATIONS VAULT STA. 528+30, 12 FT. EOP FIBER OPTIC CABLE SPLICE, LATERAL
PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE 42"x36"x12" STA. 528+10
PROPOSED CCTV CAMERAL POLE 80 FT. WITH FIXED POSITION CCTV CAMERA AND CABINET MOUNTED ON POLE STA 528+53, 13' E.O.P.
SEE AREA "A" DETAIL, THIS SHEET
INSTALL NEW DMS POWER CONTROL CABINET OOPS1 (NOTE 2)
END IMPROVEMENTS STA 530+00

PROPOSED FIXED CCTV CAMERA AND STRUCTURE 80 FT.
PROPOSED PTZ DOME CAMERA
PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE 12"X12"X8"
PROPOSED CCTV CAMERA AND STRUCTURE 80 FT.
CCTV CABINET
EXISTING CABINET S34

AREA "B" DETAIL
NOT TO SCALE

PROPOSED FIXED POSITION CCTV CAMERA AND STRUCTURE 80 FT.
NEW DMS CONTROL CABINET OOPS1
PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE
BRIDGE RAIL AND SUBSTRUCTURE
BRIDGE HOUSE
CCTV EQUIPMENT CABINET
BRIDGE PIER
CONDUIT STRAPPED TO STRUCTURE PER NEC AND IDOT STANDARDS (TYPICAL)
GROUND LINE
PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE 12"X12"X8"
COMMUNICATIONS VAULT

AREA "A" DETAIL
NOT TO SCALE

E-108

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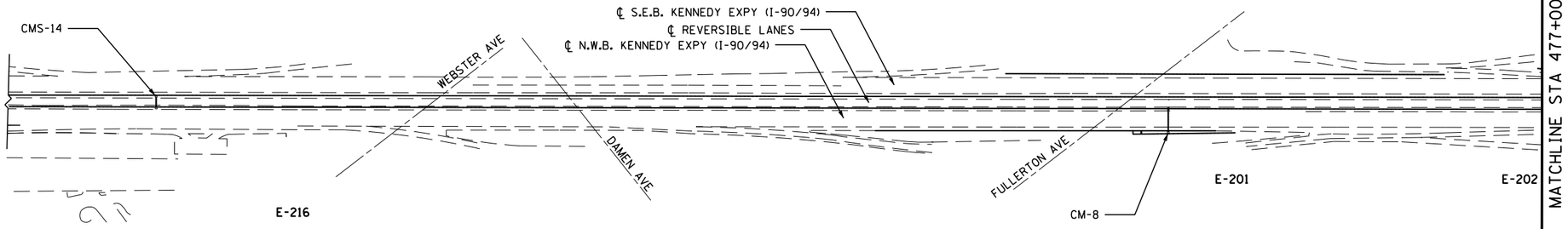
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

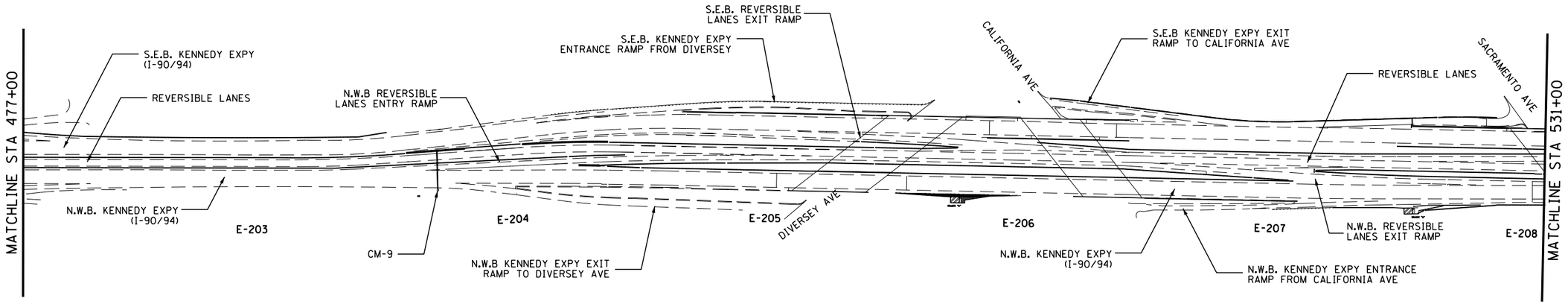
DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND ONTARIO FEEDER RAMP (CM-5)

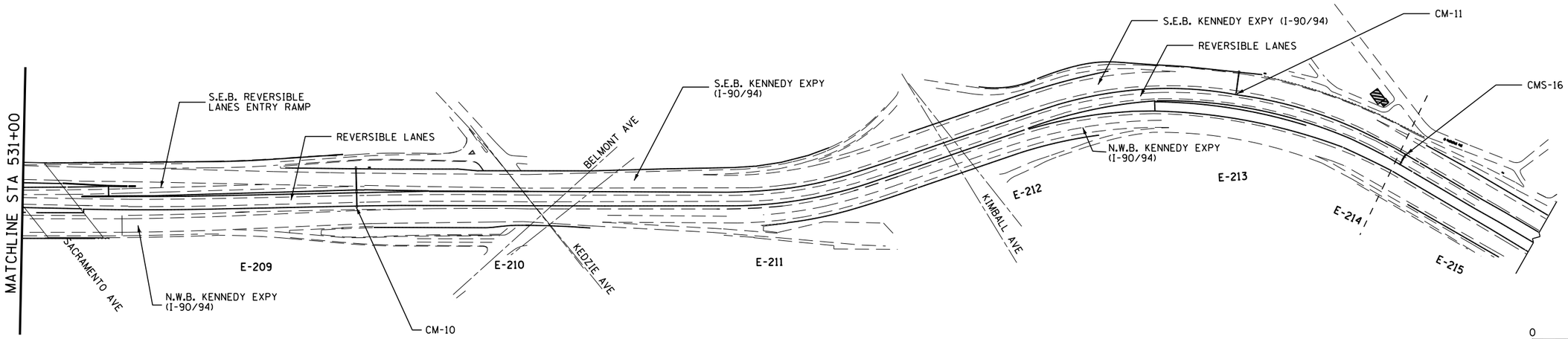
SCALE: 1"=30' | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	31
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

NOTE: PLAN ALIGNMENTS AND SUPPORTING DATA
THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS WERE DEVELOPED FROM PREVIOUS PLANIMETRICS AND AS-BUILT PLANS FURNISHED BY THE DEPARTMENT AND IS NOT THE RESULT OF A GROUND SURVEY. THEREFORE, THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS IS FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUIRED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS.







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E-200

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CONSULTING ENGINEERS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OUTBOUND KENNEDY SLIP RAMP
AND INBOUND KENNEDY SLIP RAMP – KEY MAPS

SCALE: 1"=200' | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	32
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

NOTES:

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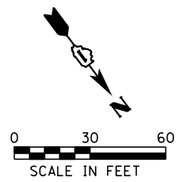

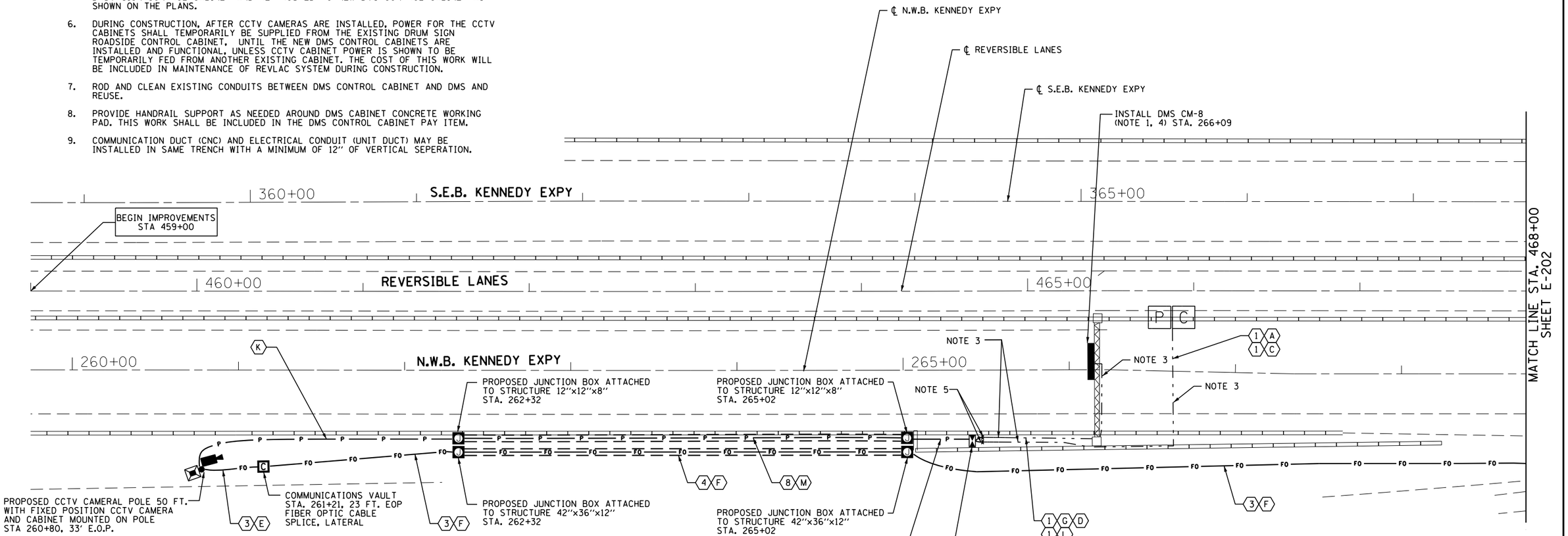

KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
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- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
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KEYED NOTES:

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E-201

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PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND KENNEDY SLIP RAMP (CM-8)

SCALE: 1"=30' | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	33
		CONTRACT NO. 60T93		
		ILLINOIS FED. AID PROJECT		

NOTES:

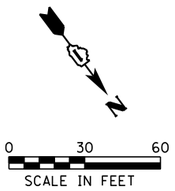
1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET. UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

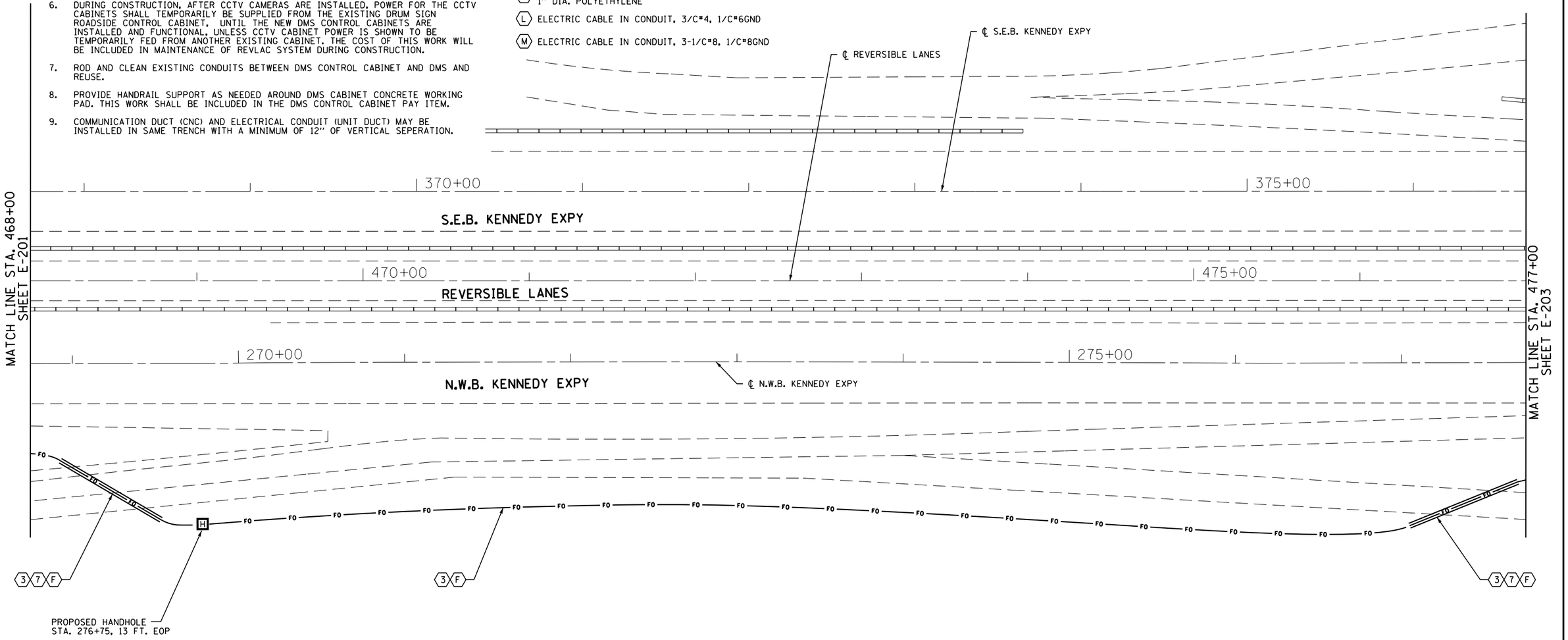
KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL





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PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -	

SINGH - ASSOCIATES, INC. CONSULTING ENGINEERS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND KENNEDY SLIP RAMP

SCALE: 1"=30' | SHEET 2 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	34
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

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KEYED NOTES:

(A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED

(B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND

(C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND

(D) FIBER OPTIC CABLE, NO. 62.5/125, 12F

(E) FIBER OPTIC CABLE 12 SINGLE MODE

(F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE

(G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION

(H) COAXIAL CABLE, RG-6

(J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)

(K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE

(L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND

(M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

(1) EXISTING CONDUIT, 2"

(2) EXISTING CONDUIT 4"

(3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.

(4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL

(5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL

(6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL

(7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA

(8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
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3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
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7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

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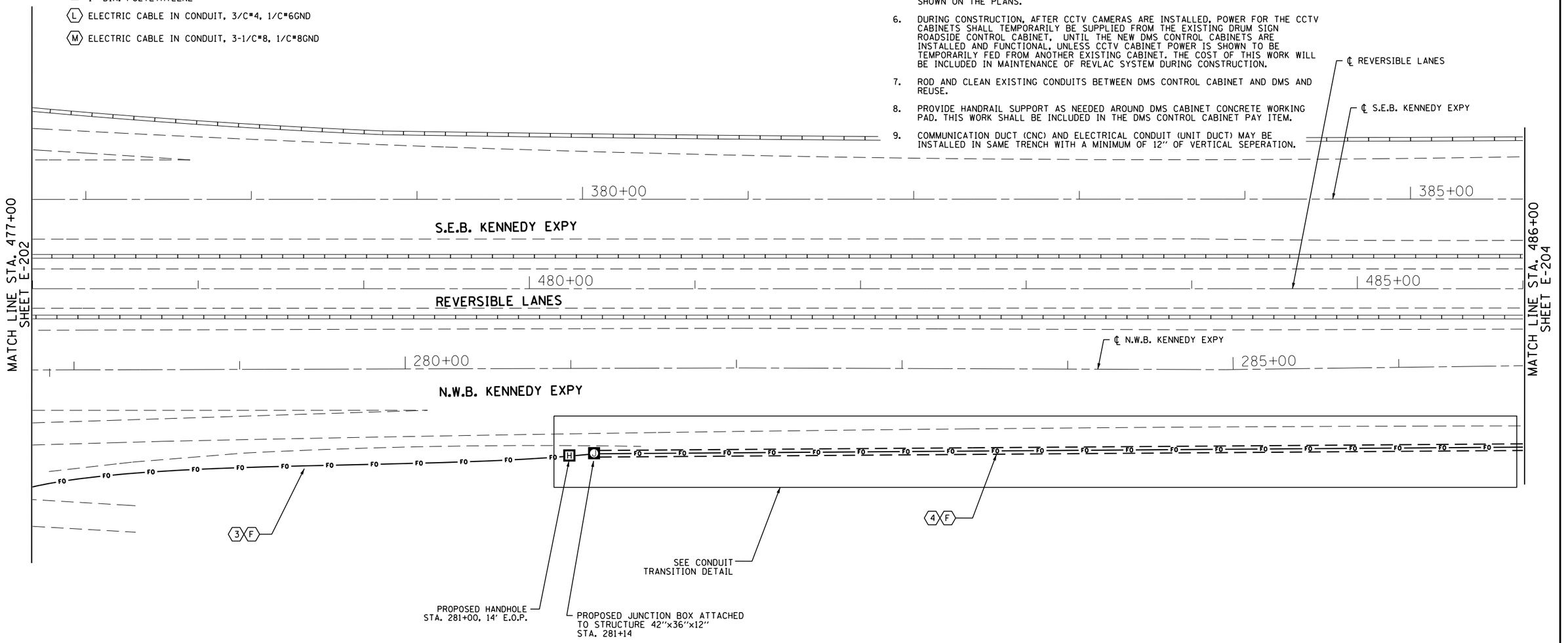

E-203

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	PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND KENNEDY SLIP RAMP

SCALE: 1"=30' | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	35
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

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KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

1. EXISTING CONDUIT, 2"
2. EXISTING CONDUIT 4"
3. UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
4. CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
5. CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
6. CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
7. UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
8. CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
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3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
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8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

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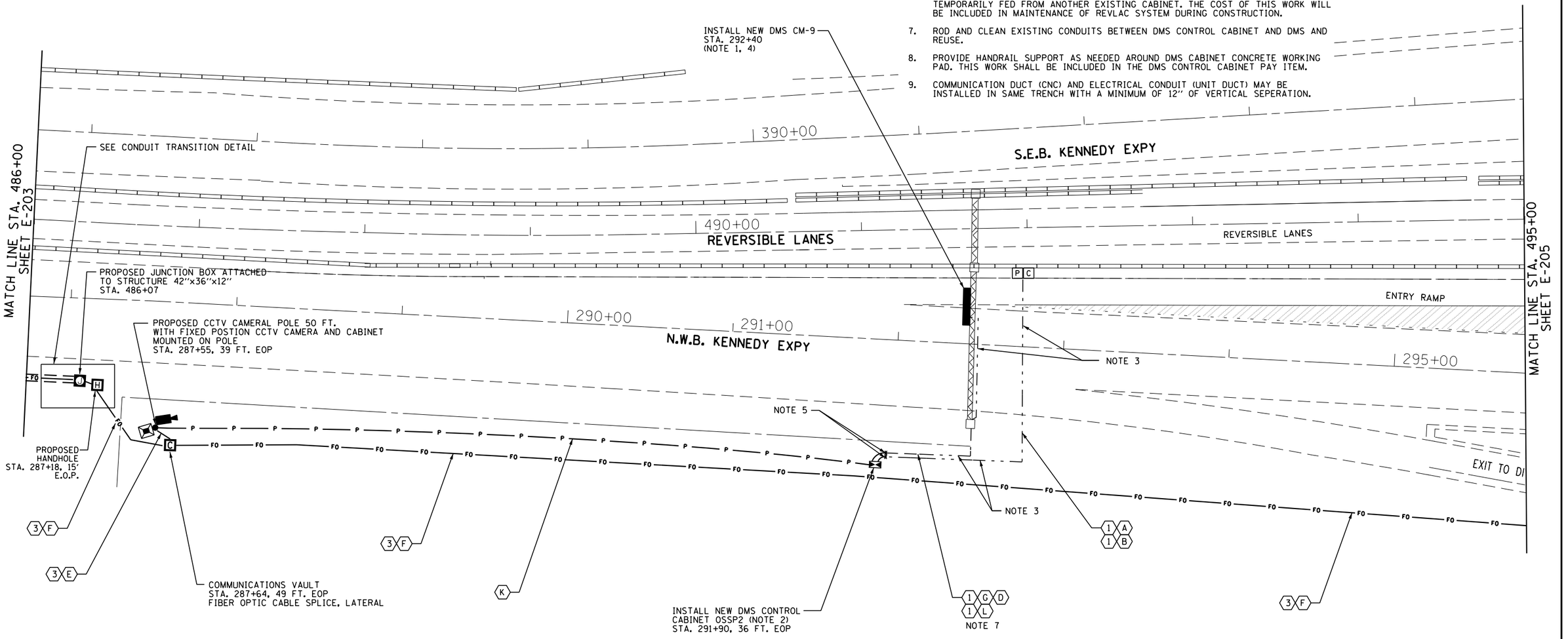

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SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND KENNEDY SLIP RAMP (CM-9)

SCALE: 1"=30' | SHEET 4 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	36
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

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KEYED NOTES:

(A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
(B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
(C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
(D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
(E) FIBER OPTIC CABLE 12 SINGLE MODE
(F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
(G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
(H) COAXIAL CABLE, RG-6
(J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
(K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
(L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
(M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

(1) EXISTING CONDUIT, 2"
(2) EXISTING CONDUIT 4"
(3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
(4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
(5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
(6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
(7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
(8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
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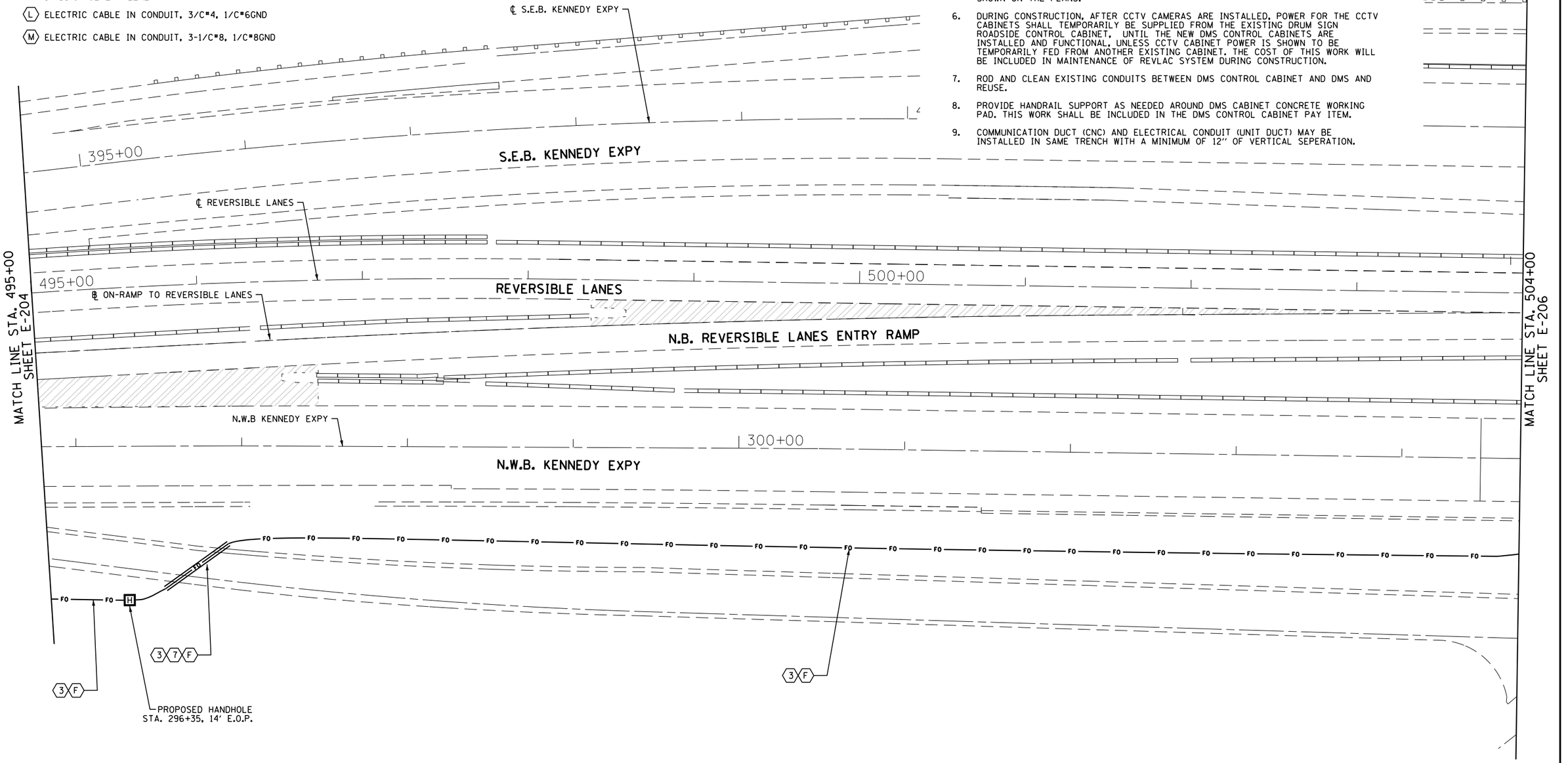

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SINGH - ASSOCIATES, INC. CONSULTING ENGINEERS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND KENNEDY SLIP RAMP

SCALE: 1"=30' | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	37
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

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KEYED NOTES:

(A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
(B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
(C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
(D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
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(F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
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(H) COAXIAL CABLE, RG-6
(J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
(K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
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KEYED NOTES:

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NOTES:

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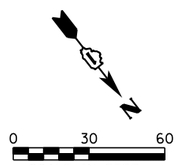
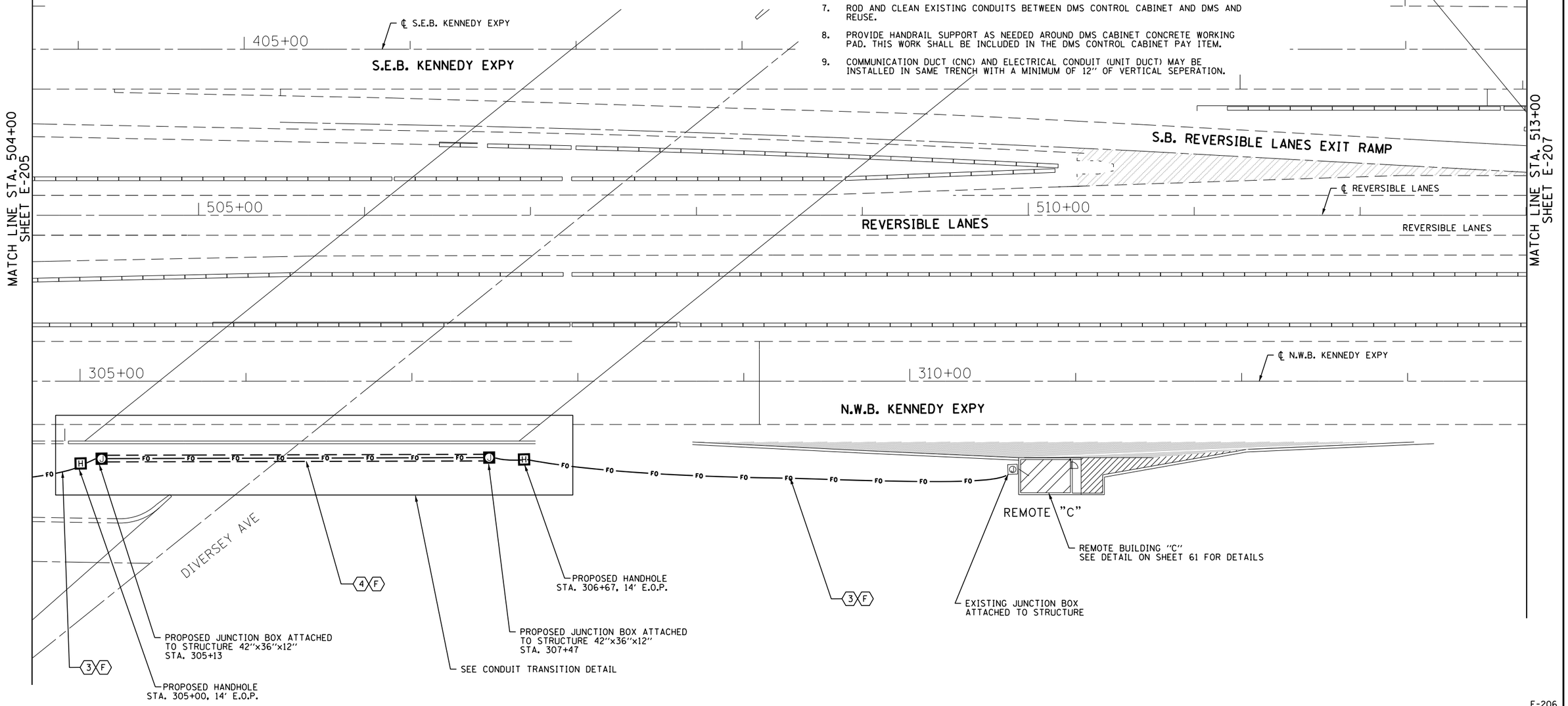
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.





E-206

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CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -
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PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
OUTBOUND KENNEDY SLIP RAMP

SCALE: 1"=30' | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	38
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

NO WORK THIS SHEET

N

0 30 60
SCALE IN FEET

MATCH LINE STA. 513+00
SHEET E-206

MATCH LINE STA. 522+00
SHEET E-208

℄ S.E.B. KENNEDY EXPY

415+00

420+00

S.E.B. KENNEDY EXPY

℄ REVERSIBLE LANES

515+00

REVERSIBLE LANES

520+00

N.B. REVERSIBLE LANES EXIT RAMP

315+00

320+00

N.W.B. KENNEDY EXPY

℄ N.W.B. KENNEDY EXPY

E-207

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SINGH
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CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 039_D160T93-sht-plan207	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY SLIP RAMP

SCALE: 1"=30' | SHEET 1 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	39
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

KEYED NOTES:

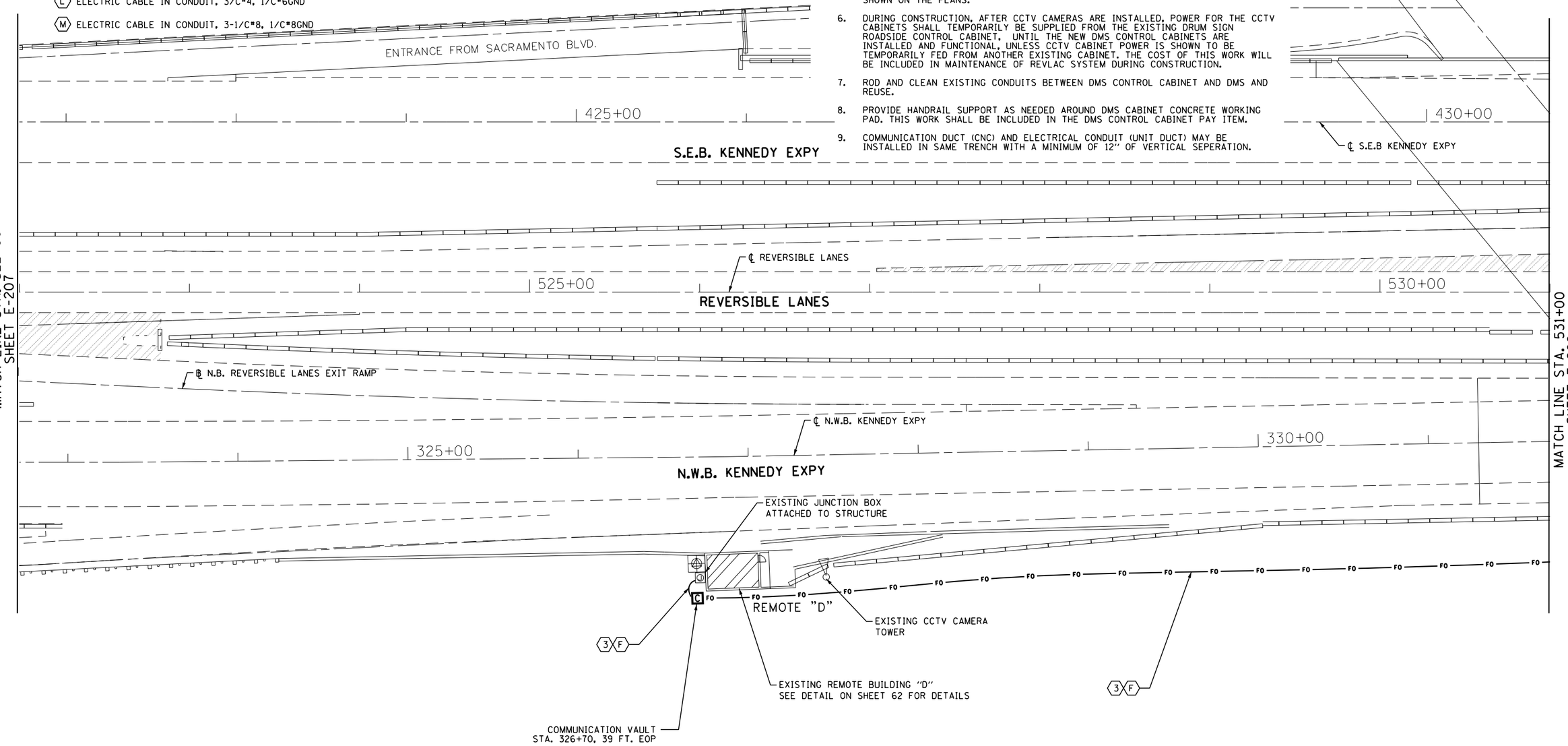
- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET, UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.



E-208

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SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -	
FILE NAME = 040_D160T93-sht-plan208	DRAWN - DS	REVISED -	
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -	
PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY SLIP RAMP

SCALE: 1"=30' | SHEET 2 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	40
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

KEYED NOTES:

(A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
(B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
(C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
(D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
(E) FIBER OPTIC CABLE 12 SINGLE MODE
(F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
(G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
(H) COAXIAL CABLE, RG-6
(J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
(K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
(L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
(M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

(1) EXISTING CONDUIT, 2"
(2) EXISTING CONDUIT 4"
(3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
(4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
(5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
(6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
(7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
(8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET, UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

N

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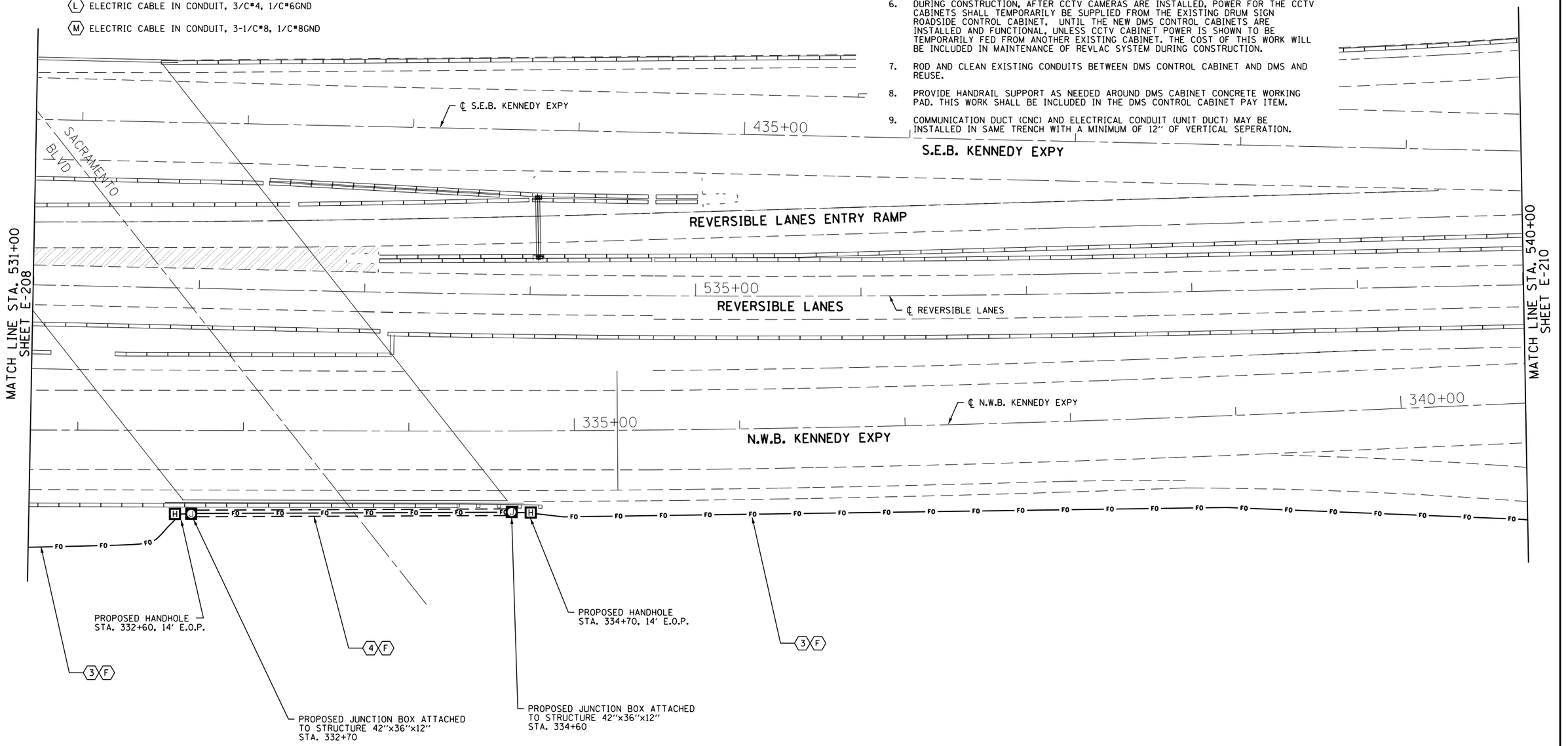
SCALE IN FEET



E-209

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SINGH - ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 041_D160T93-sht-plan209	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY SLIP RAMP

SCALE: 1"=30' | SHEET 3 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	41
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
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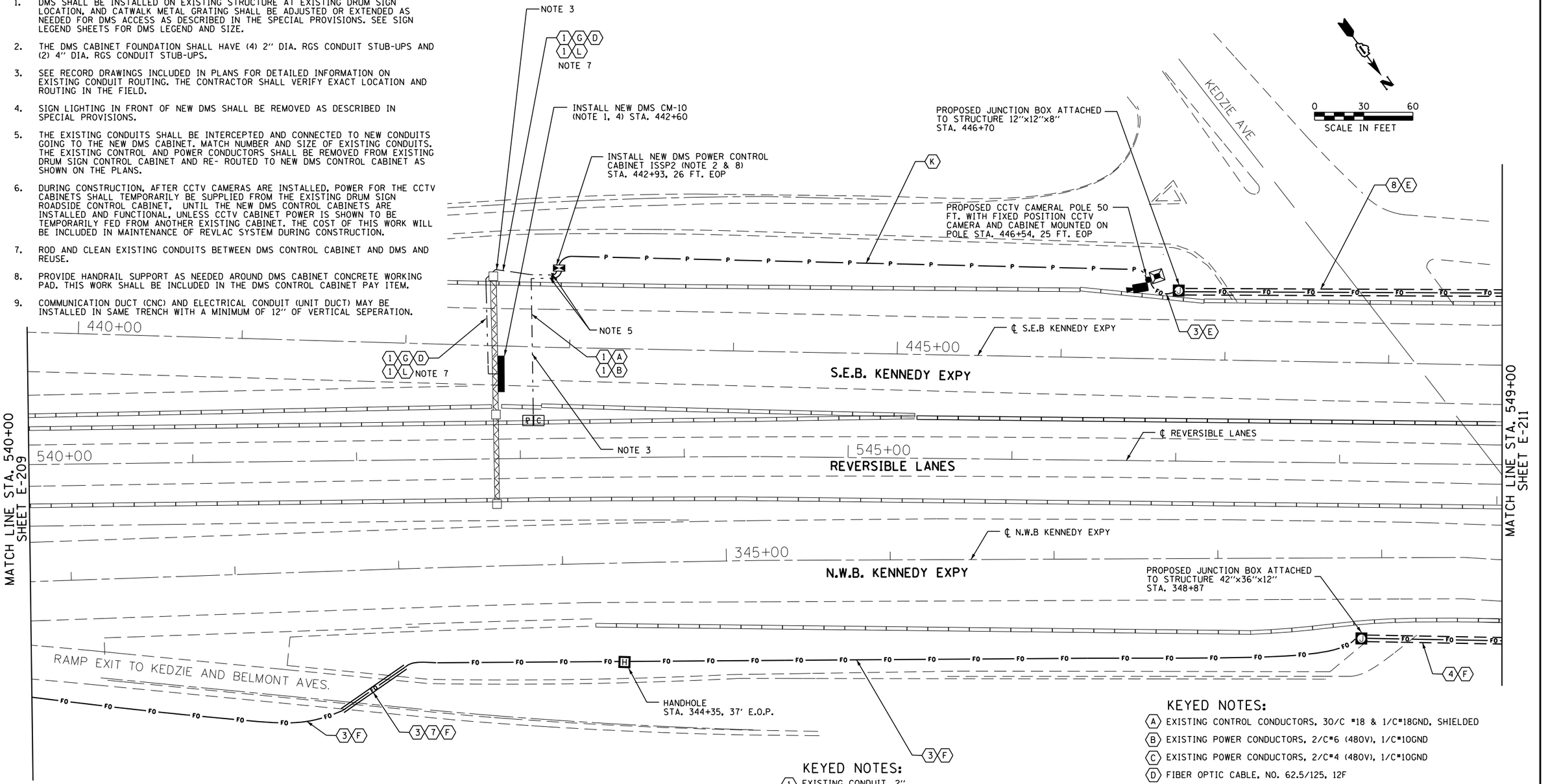
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.



KEYED NOTES:

1. EXISTING CONDUIT, 2"
2. EXISTING CONDUIT 4"
3. UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
4. CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
5. CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
6. CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
7. UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
8. CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

KEYED NOTES:

- A EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- B EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- C EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- D FIBER OPTIC CABLE, NO. 62.5/125, 12F
- E FIBER OPTIC CABLE 12 SINGLE MODE
- F FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- G DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- H COAXIAL CABLE, RG-6
- J FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- K UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- L ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- M ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

E-210

SINGH
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CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -	
FILE NAME = 042_D160T93-sht-plan210	DRAWN - DS	REVISED -	
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PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY SLIP RAMP (CM-10)

SCALE: 1"=30' | SHEET 4 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	42
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

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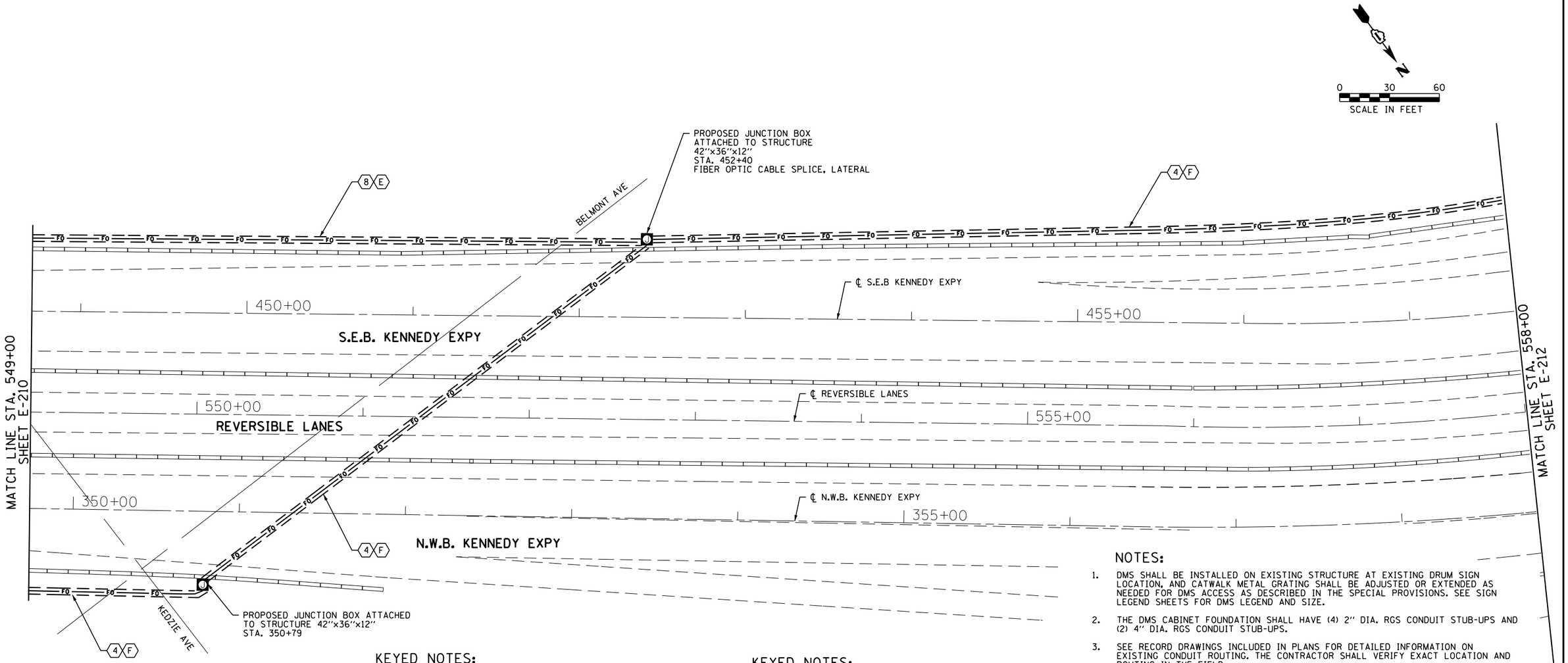

KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

1. EXISTING CONDUIT, 2"
2. EXISTING CONDUIT 4"
3. UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
4. CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
5. CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
6. CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
7. UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
8. CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET, UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

E-211

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SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -
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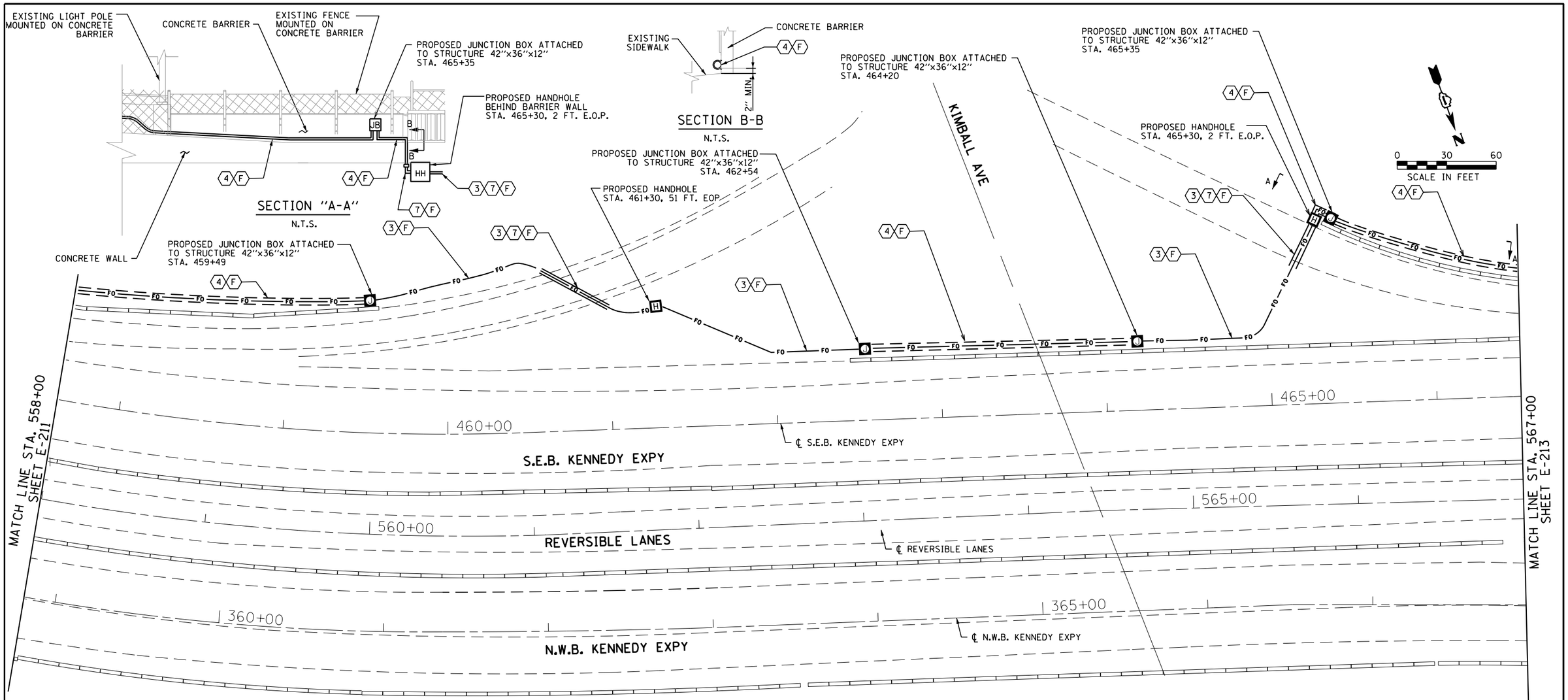
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY SLIP RAMP

SCALE: 1"=30' | SHEET 5 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	43
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET. UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

E-212

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USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 044_D160T93-sht-plan212	DRAWN - DS	REVISED -
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PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY SLIP RAMP

SCALE: 1"=30' | SHEET 6 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	44
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

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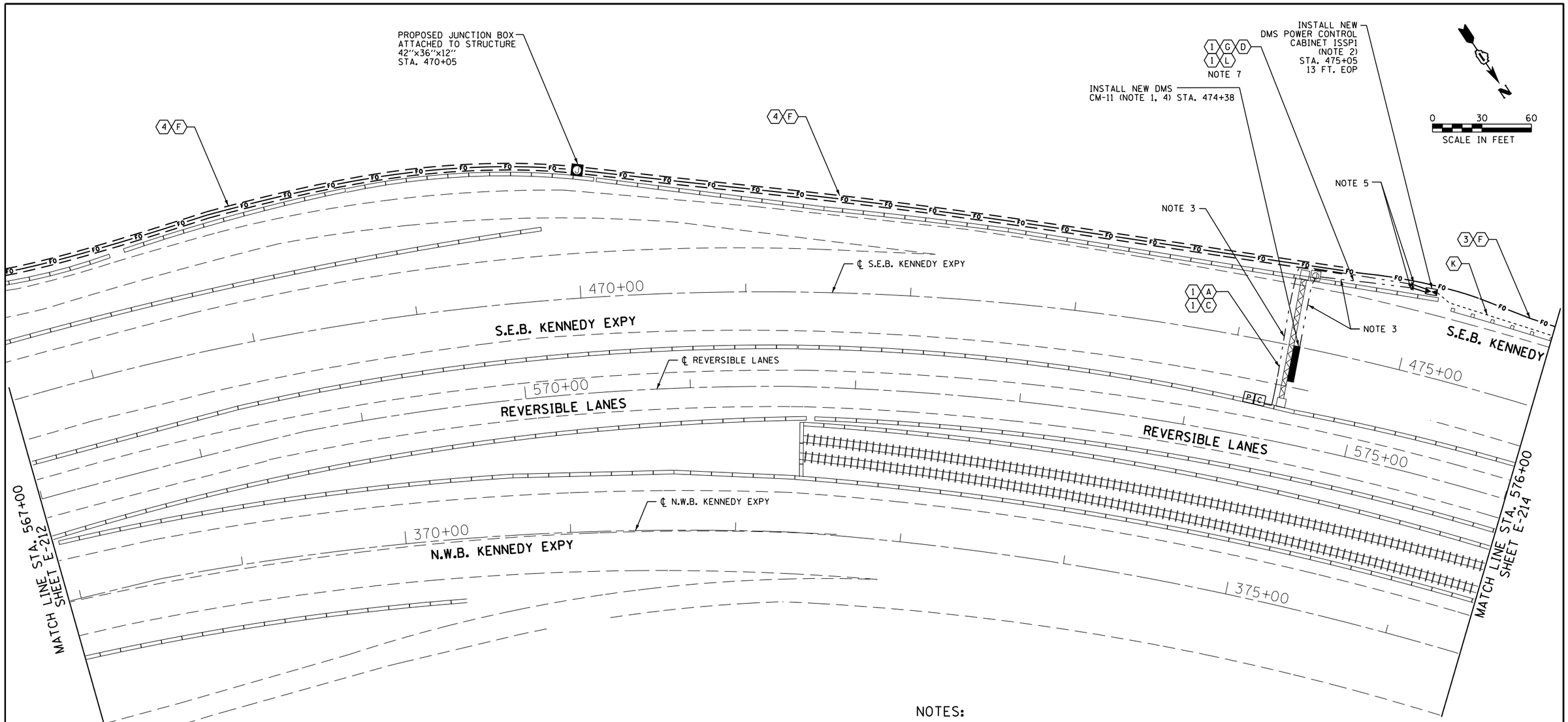

KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET, UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

J:\293\Task-2\DGN\CADD Sheets\045_DI60T93-sht-plan213.dgn

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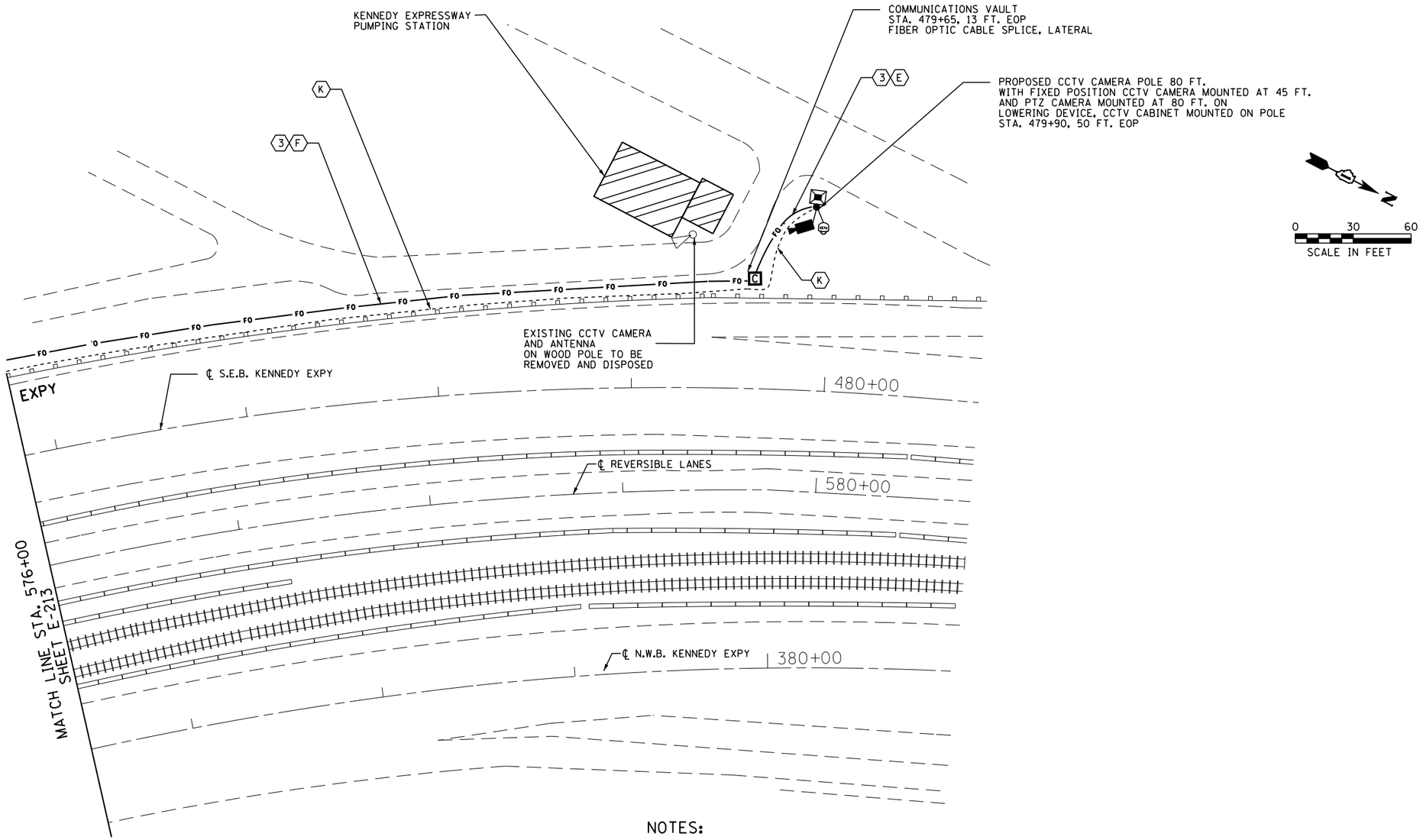
USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 045_DI60T93-sht-plan213	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY SLIP RAMP (CM-11)

SCALE: 1"=30' | SHEET 7 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	45
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET, UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

J:\293\Task-2\DGN\CADD Sheets\046_D160T93-sht-plan214.dgn

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USER NAME = mgarvida	DESIGNED - DJ	REVISED -
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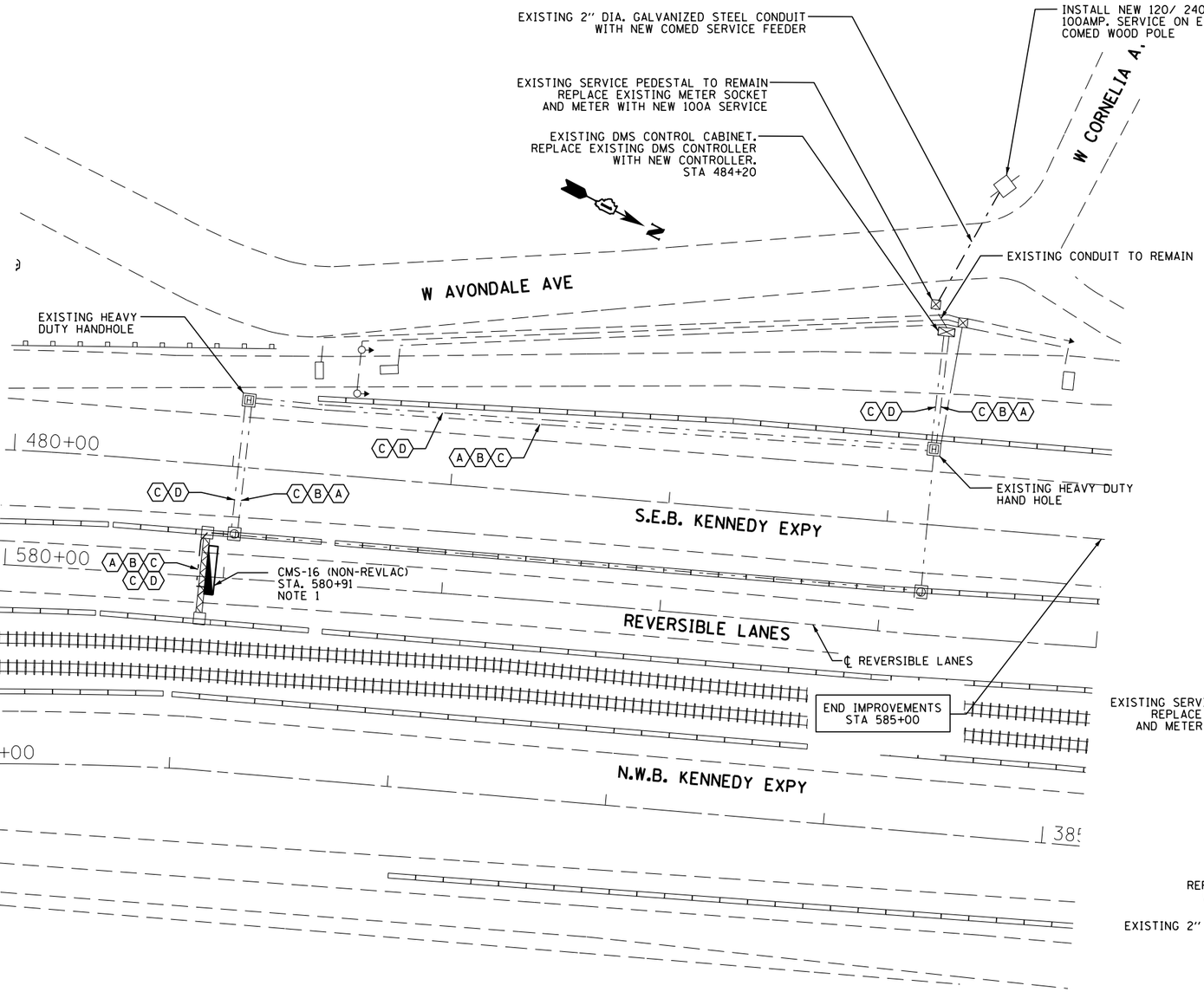
PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY SLIP RAMP

SCALE: 1"=30' | SHEET 8 OF 8 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	46
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

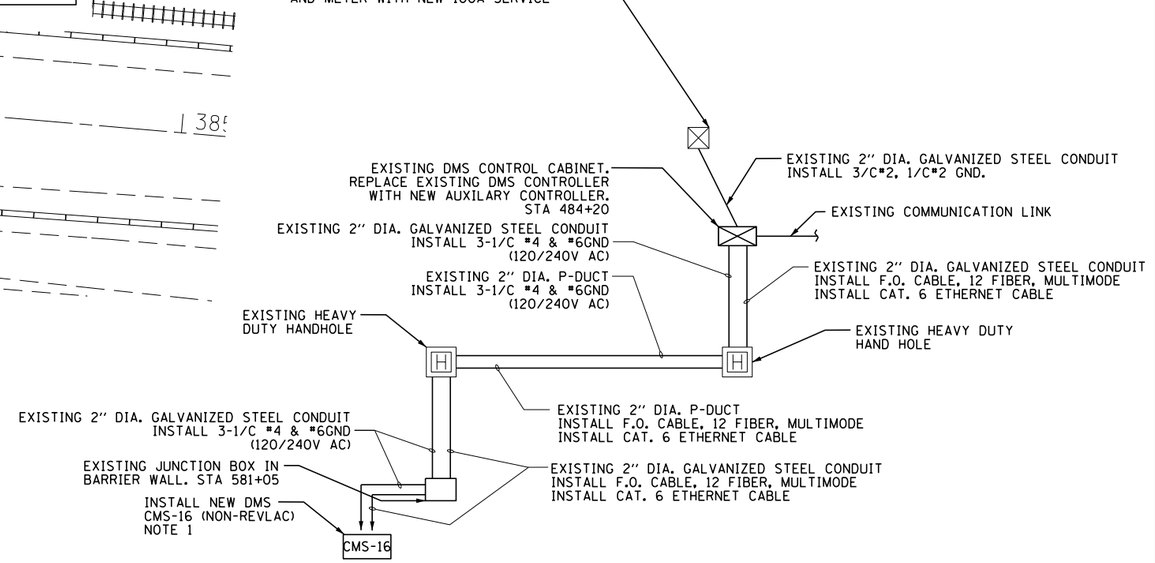


KEYED NOTES:

- (A) CAT. 6 ETHERNET CABLE
- (B) FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, 12F
- (C) EXISTING CONDUIT. SEE PROPOSED WIRING DIAGRAM, THIS SHEET
- (D) POWER CONDUCTORS. SEE PROPOSED WIRING DIAGRAM, THIS SHEET

NOTES:

1. DMS CMS-16 SHALL BE 7'-10" X 28'-5" (96 X 400 20MM PIXELS) WITH FRONT ACCESS. SEE SPECIAL PROVISION "DMS FRONT ACCESS, FULL MATRIX COLOR, NTCIP 1203 V2"
2. SEE SHEET 112 FOR DMS DETAILS
3. SEE PROPOSED WIRING DIAGRAM, THIS SHEET



DMS CMS-16 (NON-REVLAC) PROPOSED WIRING DIAGRAM

SCALE = NTS

E-215

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CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -
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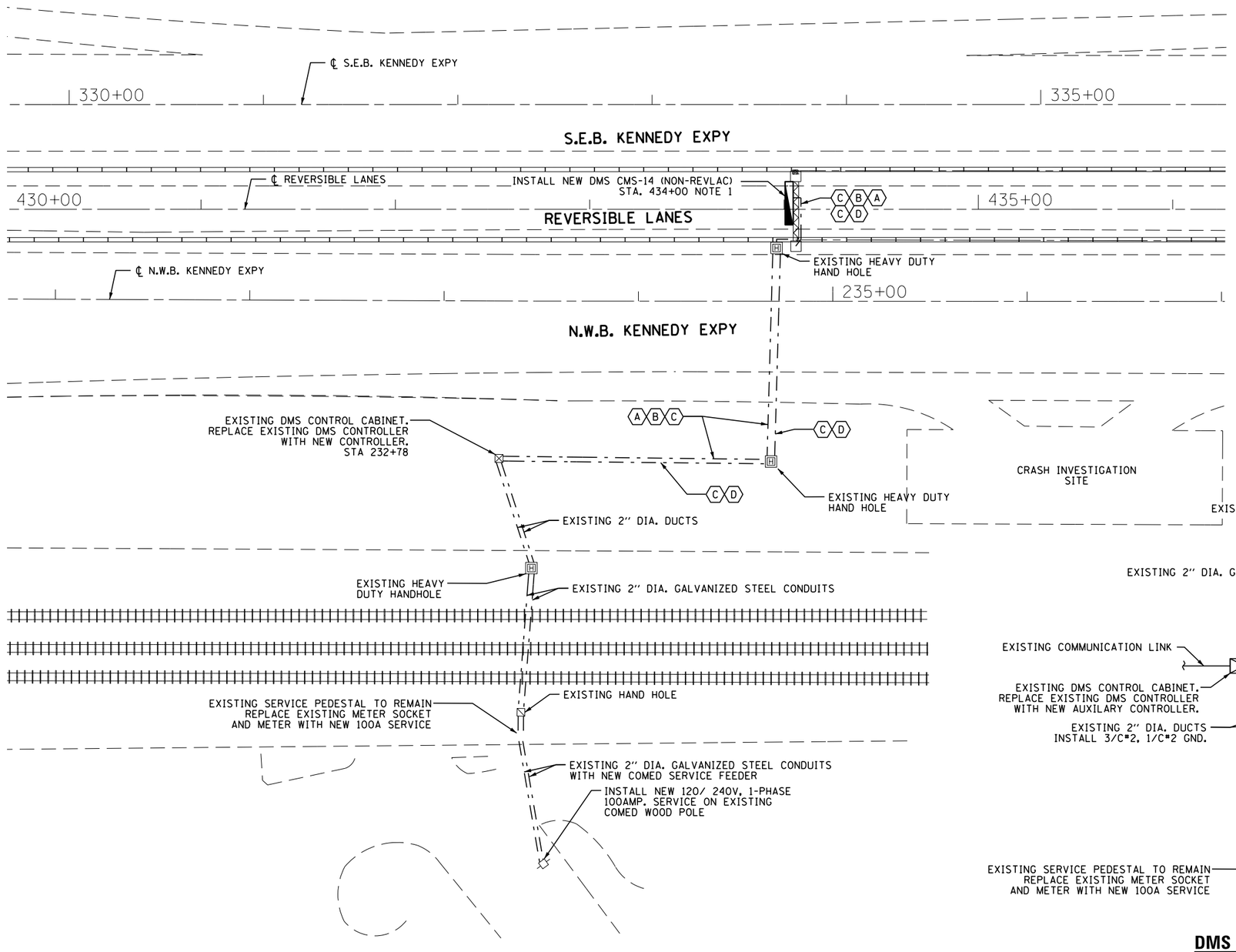
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

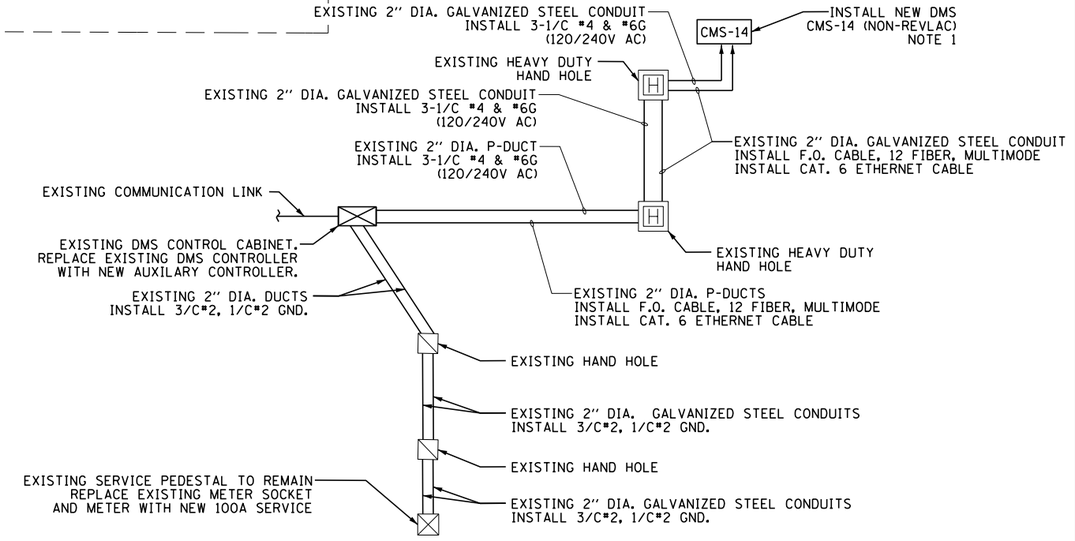
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CMS-16 SIGN REPLACEMENT PLANS
NON-REVLAC DMS

SCALE: 1"=30' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

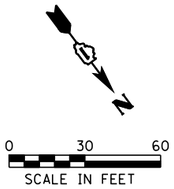
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	47
		CONTRACT NO. 60T93		
		ILLINOIS FED. AID PROJECT		





DMS CMS-14 (NON-REVLAC) PROPOSED WIRING DIAGRAM

SCALE = NTS



KEYED NOTES:

(A) CAT. 6 ETHERNET CABLE
(B) FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, 12F
(C) EXISTING CONDUIT. SEE PROPOSED WIRING DIAGRAM, THIS SHEET
(D) POWER CONDUCTORS. SEE PROPOSED WIRING DIAGRAM, THIS SHEET

NOTE:

1. DMS CMS-14 SHALL BE 7'-10" X 28'-5" (96 X 400 20MM PIXELS) WITH FRONT ACCESS. SEE SPECIAL PROVISION "DMS FRONT ACCESS, FULL MATRIX COLOR, NTCIP 1203 V2"

E-216

SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -
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PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

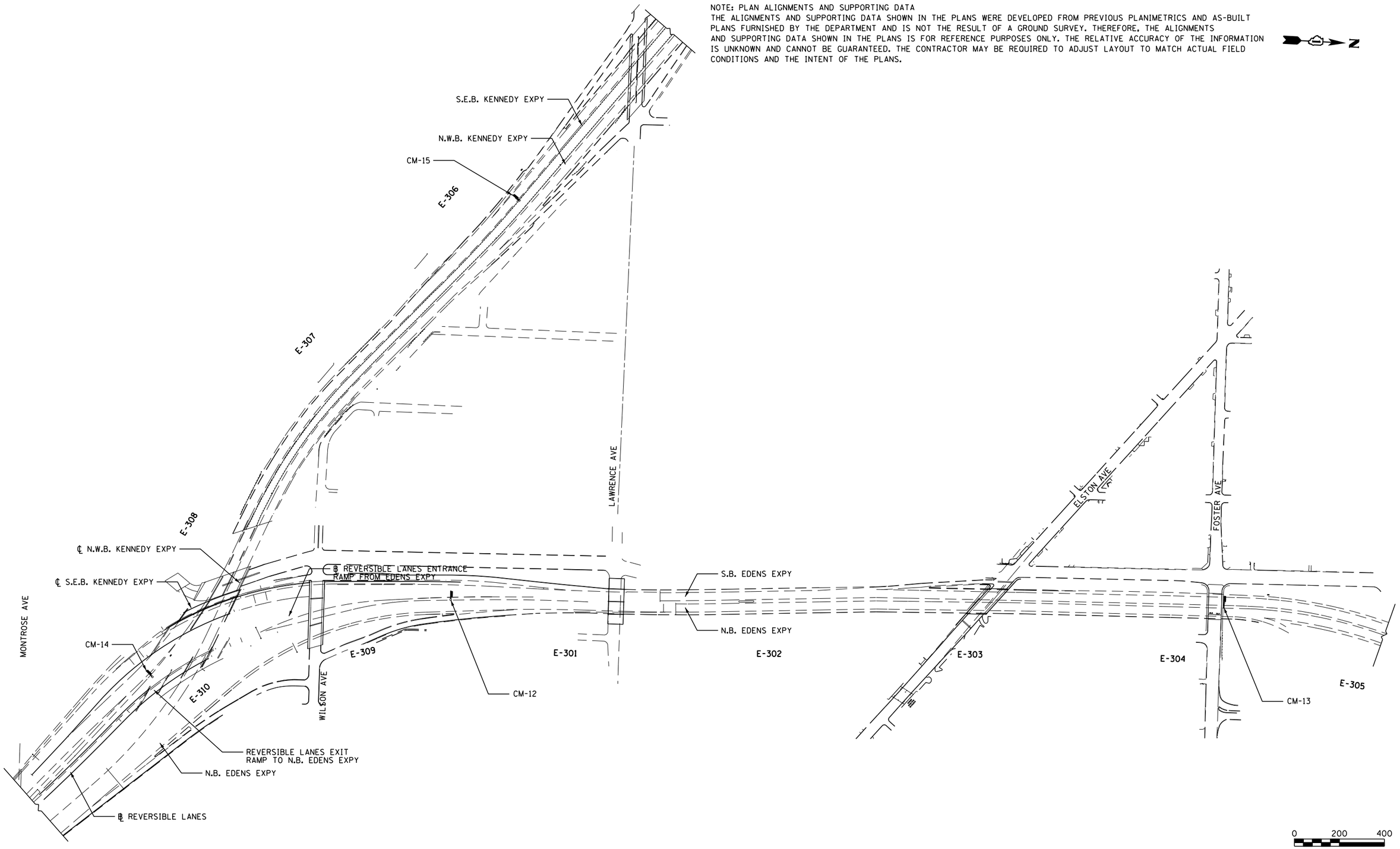
CMS-14 SIGN REPLACEMENT PLANS
NON-REVLAC DMS

SCALE: 1"=30' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	48
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

J:\293\Task-2\DGN\CADD Sheets\048_D160T93-sht-plan216.dgn

NOTE: PLAN ALIGNMENTS AND SUPPORTING DATA
THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS WERE DEVELOPED FROM PREVIOUS PLANIMETRICS AND AS-BUILT PLANS FURNISHED BY THE DEPARTMENT AND IS NOT THE RESULT OF A GROUND SURVEY. THEREFORE, THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS IS FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUIRED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS.



E-300

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CONSULTING ENGINEERS

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PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KEY MAP
KENNEDY EXPRESSWAY AT EDENS EXPRESSWAY

SCALE: 1"=200' | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	49
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

I:\293\Task-2\DGN\CADD Sheets\049_D160T93-sht-plan300.dgn

KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

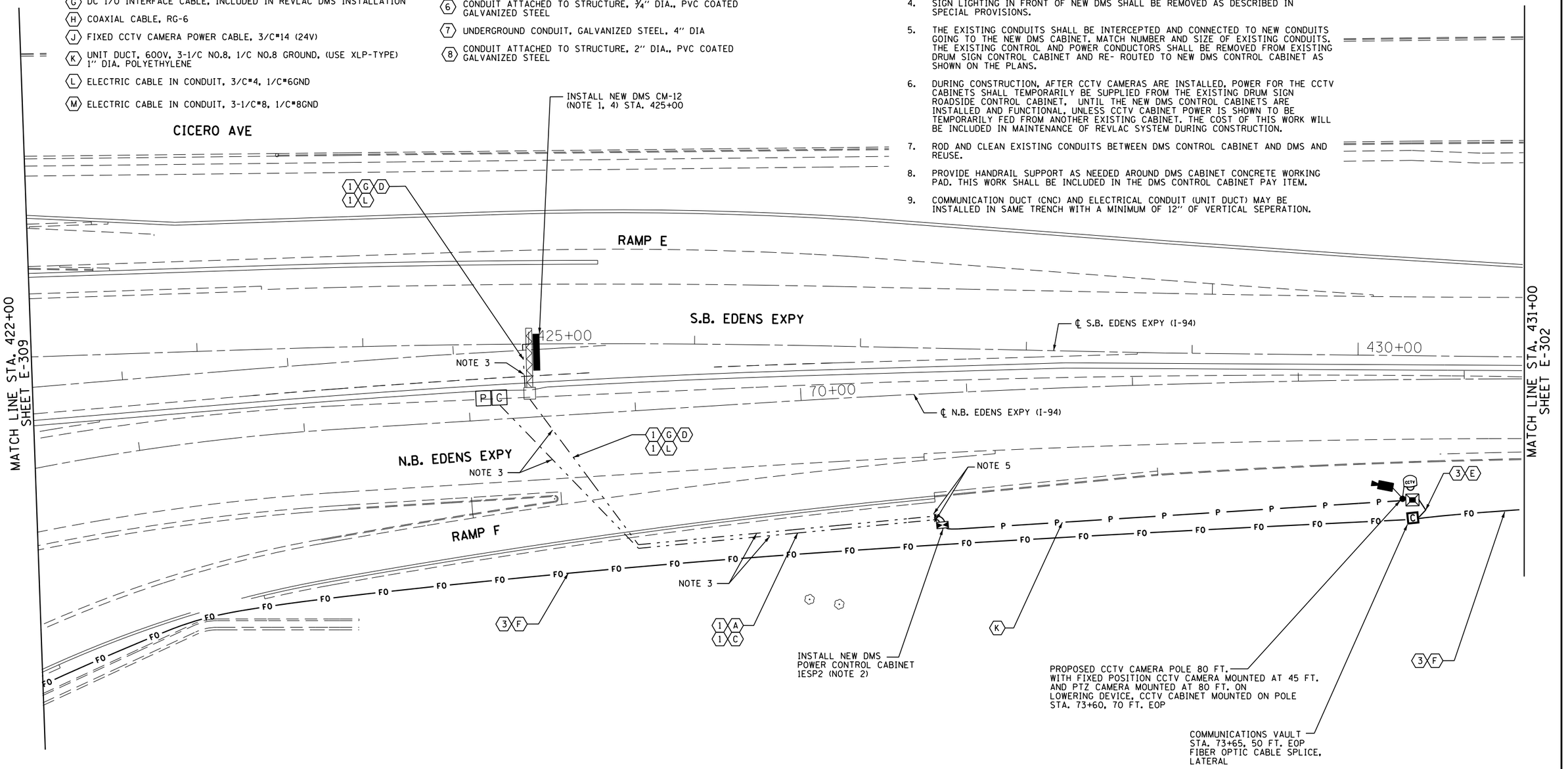
KEYED NOTES:

1. EXISTING CONDUIT, 2"
2. EXISTING CONDUIT 4"
3. UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
4. CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
5. CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
6. CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
7. UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
8. CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET, UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL. UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

0 30 60
SCALE IN FEET



E-301

J:\293\Task-2\DGN\CADD Sheets\050_D160T93-sht-plan301.dgn

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CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 050_D160T93-sht-plan301	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND EDENS (CM-12)

SCALE: 1"=30' | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	50
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

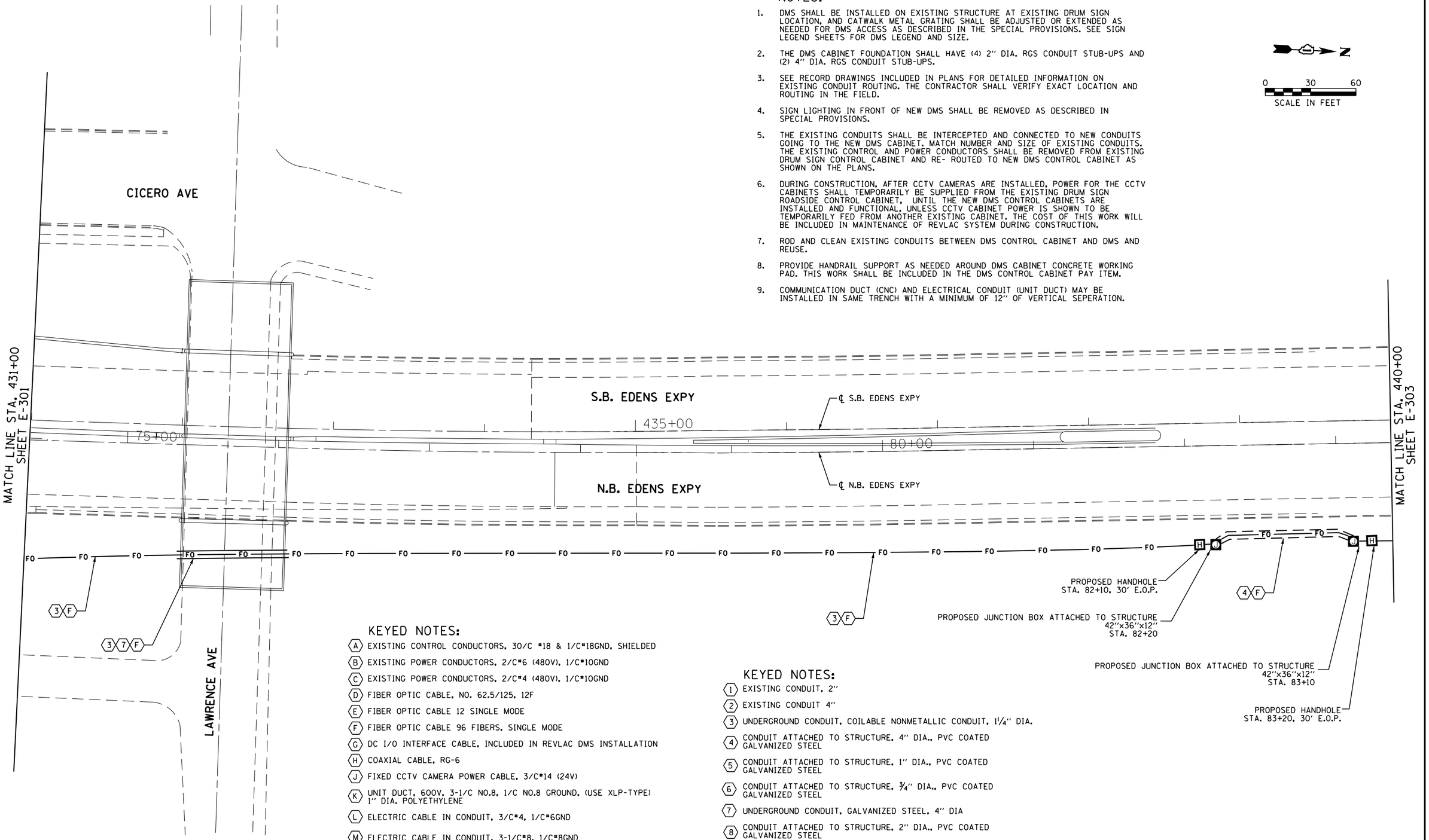
NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET. UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

N

0 30 60

SCALE IN FEET



KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

E-302

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SINGH - ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -	
FILE NAME = 05I_D160T93-sht-plan302	DRAWN - DS	REVISED -	
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -	
PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND EDENS

SCALE: 1"=30' | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	51
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

KEYED NOTES:

(A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED

(B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND

(C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND

(D) FIBER OPTIC CABLE, NO. 62.5/125, 12F

(E) FIBER OPTIC CABLE 12 SINGLE MODE

(F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE

(G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION

(H) COAXIAL CABLE, RG-6

(J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)

(K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE

(L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND

(M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

(1) EXISTING CONDUIT, 2"

(2) EXISTING CONDUIT 4"

(3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.

(4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL

(5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL

(6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL

(7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA

(8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

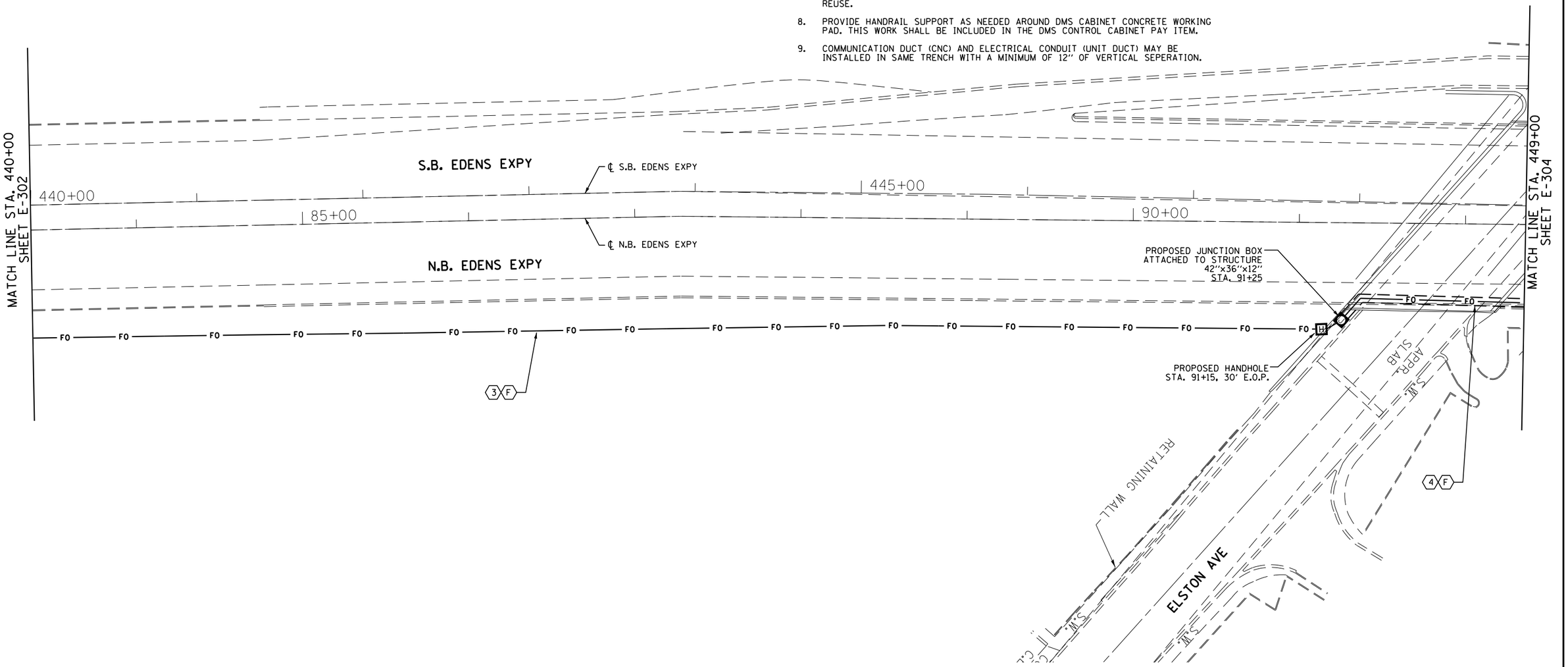
NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET, UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

N

0 30 60

SCALE IN FEET



E-303

SINGH – SINGH ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = mgarvida	DESIGNED - DJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRUM SIGN REPLACEMENT AND CCTV PLANS INBOUND EDENS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -						CONTRACT NO. 60T93	
	PLOT DATE = 06-MAY-2015 15:03	DATE - 3/2/2015	REVISED -		SCALE: 1"=30' SHEET 3 OF 5 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

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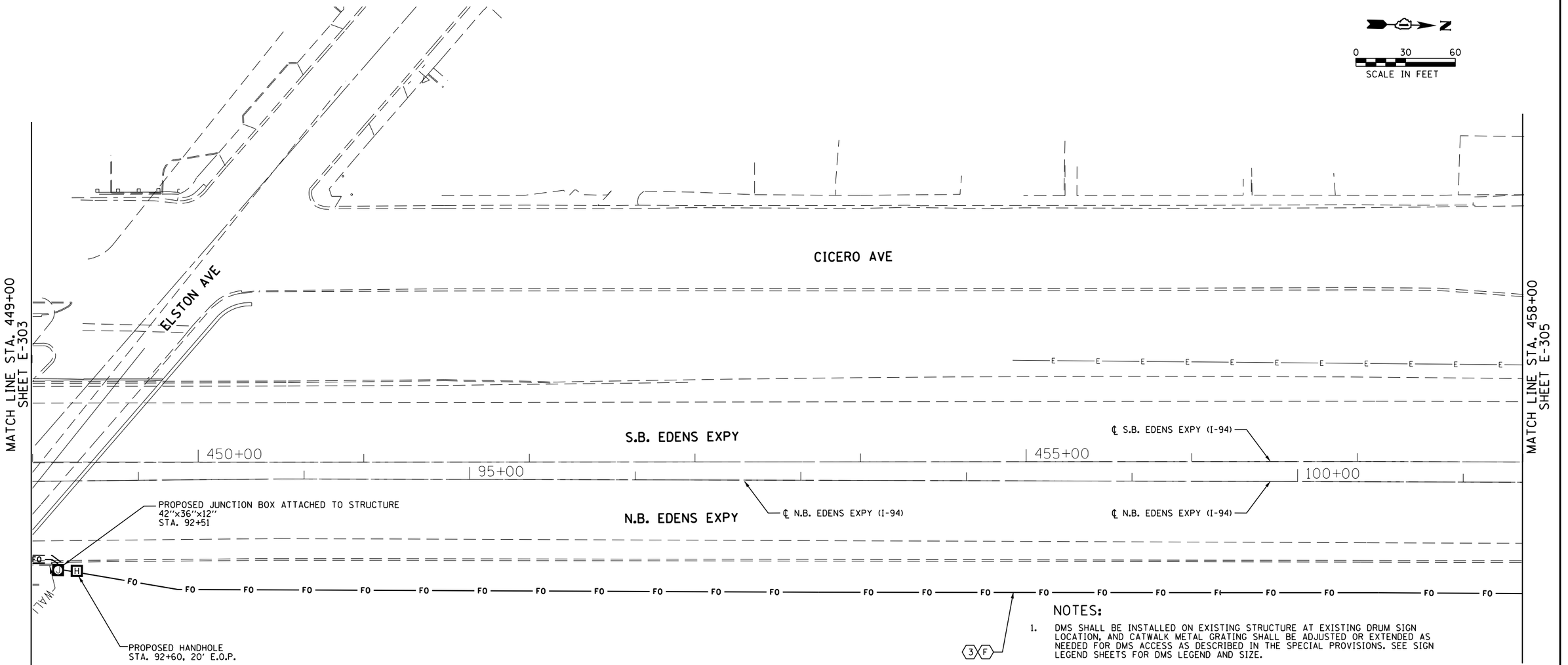

KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

- (1) EXISTING CONDUIT, 2"
- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
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- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
- (8) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
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9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

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SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -	
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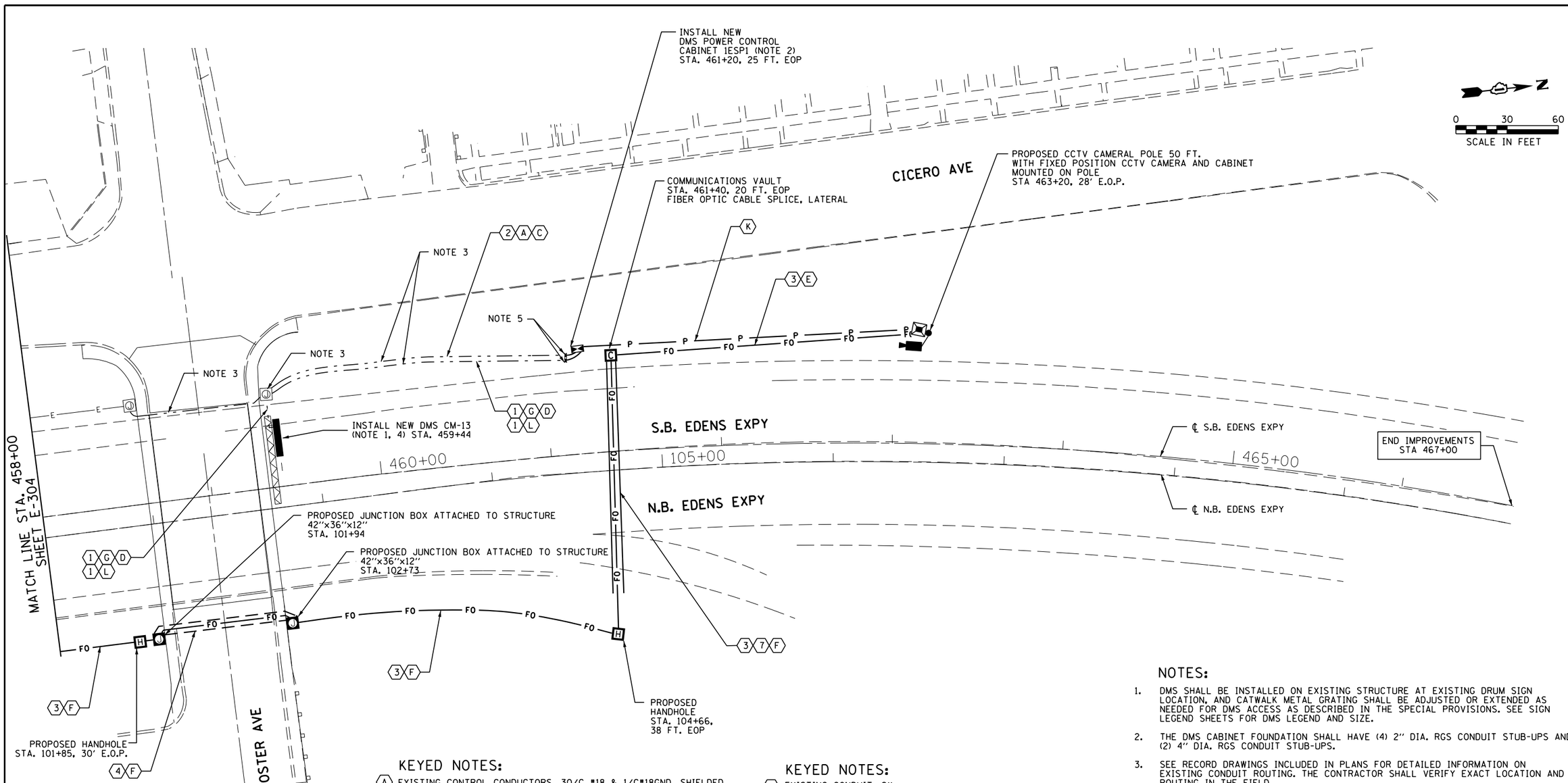
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND EDENS

SCALE: 1"=30' | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	53
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

1. EXISTING CONDUIT, 2"
2. EXISTING CONDUIT 4"
3. UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
4. CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
5. CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
6. CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
7. UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
8. CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
2. THE DMS CABINET FOUNDATION SHALL HAVE (4) 2" DIA. RGS CONDUIT STUB-UPS AND (2) 4" DIA. RGS CONDUIT STUB-UPS.
3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
5. THE EXISTING CONDUITS SHALL BE INTERCEPTED AND CONNECTED TO NEW CONDUITS GOING TO THE NEW DMS CABINET. MATCH NUMBER AND SIZE OF EXISTING CONDUITS. THE EXISTING CONTROL AND POWER CONDUCTORS SHALL BE REMOVED FROM EXISTING DRUM SIGN CONTROL CABINET AND RE- ROUTED TO NEW DMS CONTROL CABINET AS SHOWN ON THE PLANS.
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7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
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9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

E-305

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SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

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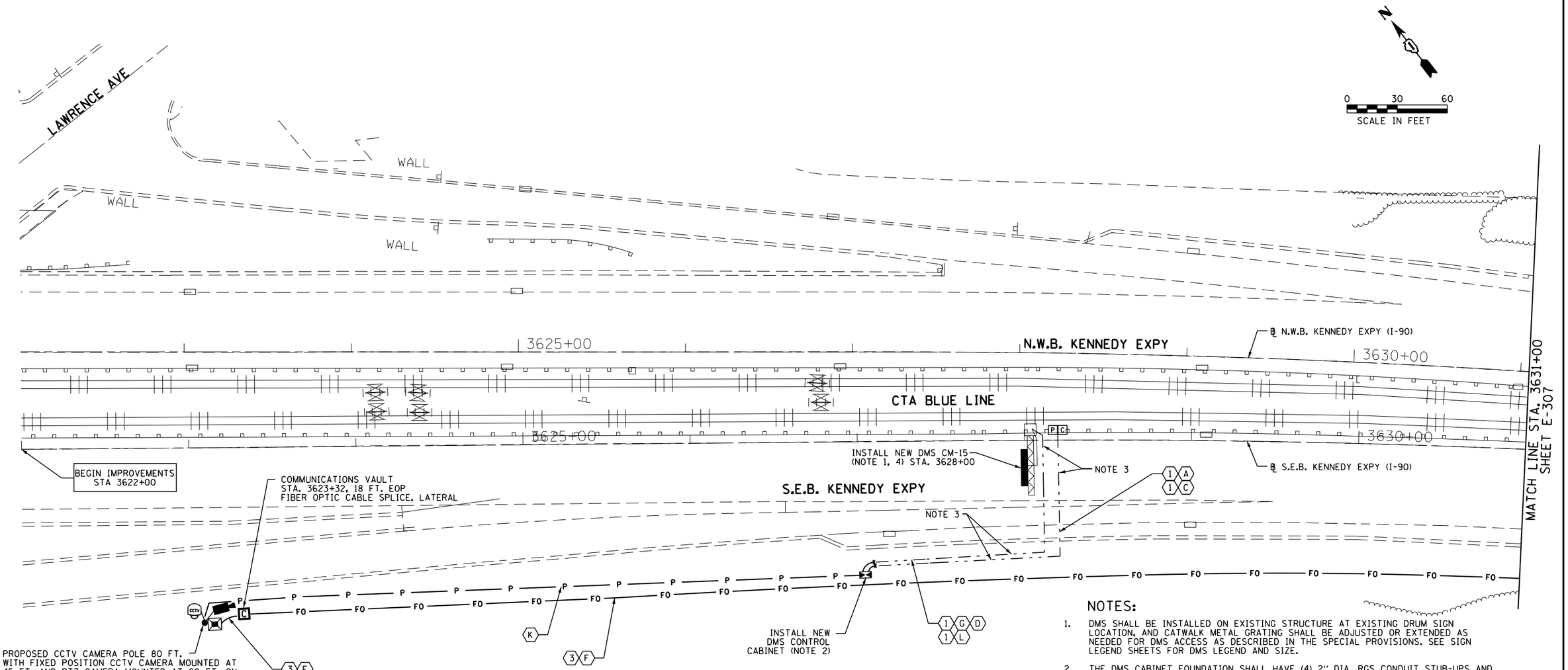
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND EDENS (CM-13)

SCALE: 1"=30' | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	54
		CONTRACT NO. 60T93		
		ILLINOIS FED. AID PROJECT		



KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
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- (E) FIBER OPTIC CABLE 12 SINGLE MODE
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- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
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KEYED NOTES:

1. EXISTING CONDUIT, 2"
2. EXISTING CONDUIT 4"
3. UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
4. CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
5. CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
6. CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
7. UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
8. CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
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6. DURING CONSTRUCTION, AFTER CCTV CAMERAS ARE INSTALLED, POWER FOR THE CCTV CABINETS SHALL TEMPORARILY BE SUPPLIED FROM THE EXISTING DRUM SIGN ROADSIDE CONTROL CABINET, UNTIL THE NEW DMS CONTROL CABINETS ARE INSTALLED AND FUNCTIONAL, UNLESS CCTV CABINET POWER IS SHOWN TO BE TEMPORARILY FED FROM ANOTHER EXISTING CABINET. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTENANCE OF REVLAC SYSTEM DURING CONSTRUCTION.
7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

E-306

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SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -
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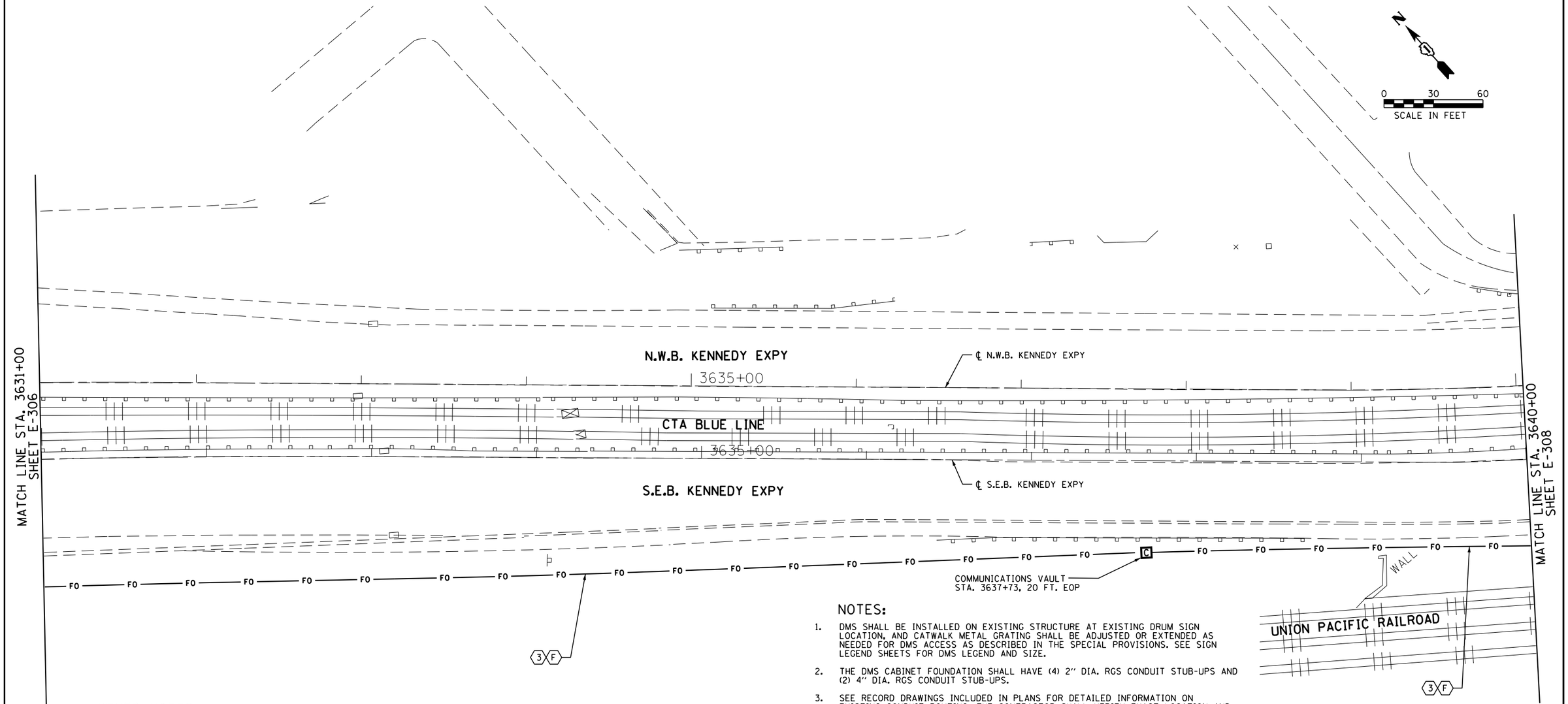
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY WEST LEG (CM-15)

SCALE: 1"=30' | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	55
		CONTRACT NO. 60T93		
		ILLINOIS FED. AID PROJECT		



KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12F
- (E) FIBER OPTIC CABLE 12 SINGLE MODE
- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
- (G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) UNIT DUCT, 600V, 3-1/C NO.8, 1/C NO.8 GROUND, (USE XLP-TYPE) 1" DIA. POLYETHYLENE
- (L) ELECTRIC CABLE IN CONDUIT, 3/C#4, 1/C#6GND
- (M) ELECTRIC CABLE IN CONDUIT, 3-1/C#8, 1/C#8GND

KEYED NOTES:

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- (2) EXISTING CONDUIT 4"
- (3) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1¼" DIA.
- (4) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (5) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- (6) CONDUIT ATTACHED TO STRUCTURE, ¾" DIA., PVC COATED GALVANIZED STEEL
- (7) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA
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NOTES:

1. DMS SHALL BE INSTALLED ON EXISTING STRUCTURE AT EXISTING DRUM SIGN LOCATION, AND CATWALK METAL GRATING SHALL BE ADJUSTED OR EXTENDED AS NEEDED FOR DMS ACCESS AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE SIGN LEGEND SHEETS FOR DMS LEGEND AND SIZE.
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3. SEE RECORD DRAWINGS INCLUDED IN PLANS FOR DETAILED INFORMATION ON EXISTING CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND ROUTING IN THE FIELD.
4. SIGN LIGHTING IN FRONT OF NEW DMS SHALL BE REMOVED AS DESCRIBED IN SPECIAL PROVISIONS.
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7. ROD AND CLEAN EXISTING CONDUITS BETWEEN DMS CONTROL CABINET AND DMS AND REUSE.
8. PROVIDE HANDRAIL SUPPORT AS NEEDED AROUND DMS CABINET CONCRETE WORKING PAD. THIS WORK SHALL BE INCLUDED IN THE DMS CONTROL CABINET PAY ITEM.
9. COMMUNICATION DUCT (CNC) AND ELECTRICAL CONDUIT (UNIT DUCT) MAY BE INSTALLED IN SAME TRENCH WITH A MINIMUM OF 12" OF VERTICAL SEPERATION.

E-307

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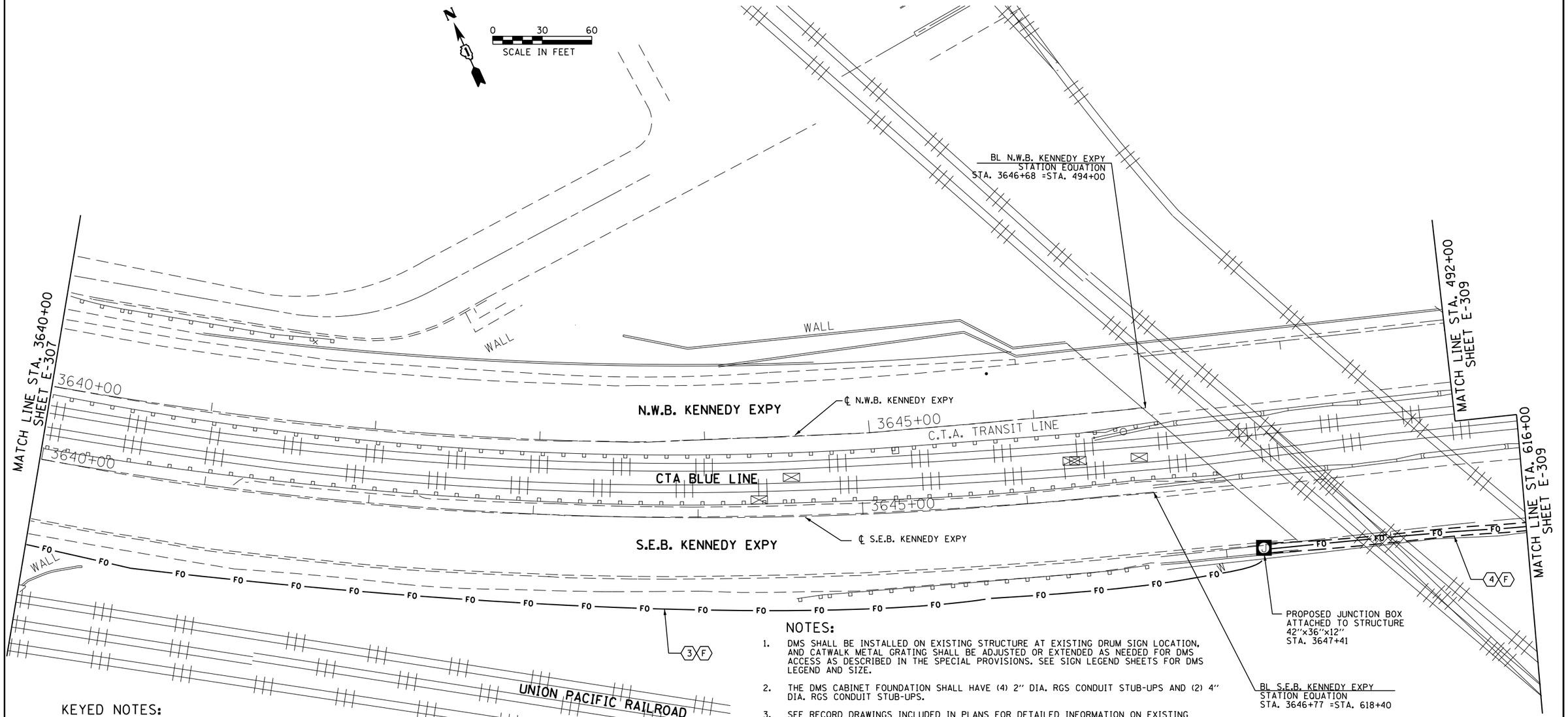
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY WEST LEG

SCALE: 1"=30' | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	56
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



KEYED NOTES:

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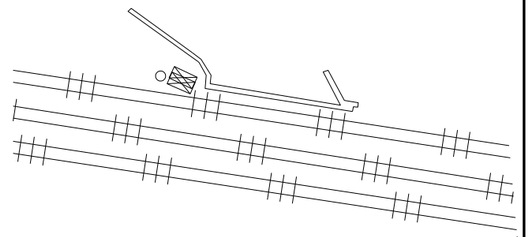

E-308

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY WEST LEG

SCALE: 1"=30' | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	57
		CONTRACT NO. 60T93		
		ILLINOIS FED. AID PROJECT		

KEYED NOTES:

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- (F) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
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N

0 30 60
SCALE IN FEET

MATCH LINE STA. 616+00 SHEET E-308

MATCH LINE STA. 492+00 SHEET E-308

℄ S.E.B. KENNEDY EXPY (I-90)

S.E.B. KENNEDY EXPY

S.B. EDENS EXPY

RAMP E

420+00

℄ S.B. EDENS EXPY (I-94)

960+00

PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE 42"x36"x12" STA. 415+05

490+00

415+00

℄ REVERSIBLE LANES ENTRANCE RAMP FROM S.B. EDENS EXPY (I-94)

E.B. EXPRESS LANE RAMP

955+00

℄ REVERSIBLE LANES EXIT RAMP TO N.B. EDENS EXPY (I-94)

850+00

65+00

N.B. EXPRESS LANE RAMP

℄ N.B. EDENS EXPY (I-94)

MATCH LINE STA. 422+00 SHEET E-301

MATCH LINE STA. 413+00 SHEET E-310

N.W.B. KENNEDY EXPY

REVERSIBLE LANES

845+00

REMOTE BUILDING "E" INSTALL (2) FIBER SEE DETAIL ON SHEET 63 FOR DETAILS

N.B. EDENS EXPY

60+00

PROPOSED HANDHOLE STA. 845+64

PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE 42"x36"x12" STA. 845+65

PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE 42"x36"x12" STA. 413+07 FIBER OPTIC CABLE SPLICE, LATERAL

WILSON AVE

PROPOSED HANDHOLE STA. 63+15, 32 FT. EOP

RAMP F

PROPOSED HANDHOLE STA. 63+45, 13 FT. EOP

PROPOSED HANDHOLE STA. 58+75, 26 FT. EOP

KEYED NOTES:

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2. EXISTING CONDUIT 4"
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E-309

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY WEST LEG

SCALE: 1"=30' | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	58
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

KEYED NOTES:

(A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED

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(G) DC I/O INTERFACE CABLE, INCLUDED IN REVLAC DMS INSTALLATION

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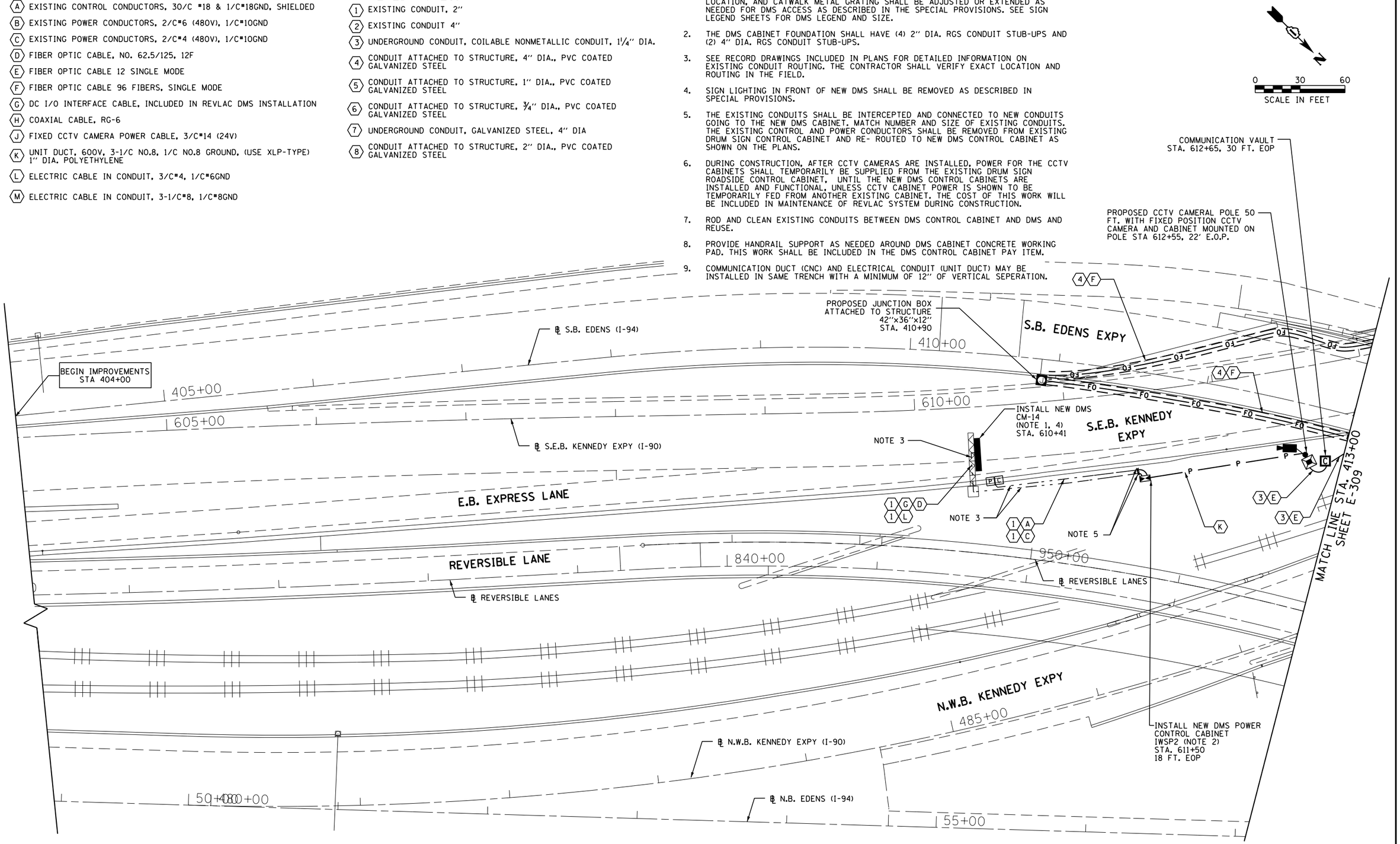

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRUM SIGN REPLACEMENT AND CCTV PLANS
INBOUND KENNEDY WEST LEG (CM-14)

SCALE: 1"=30' | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	59
		CONTRACT NO. 60T93		
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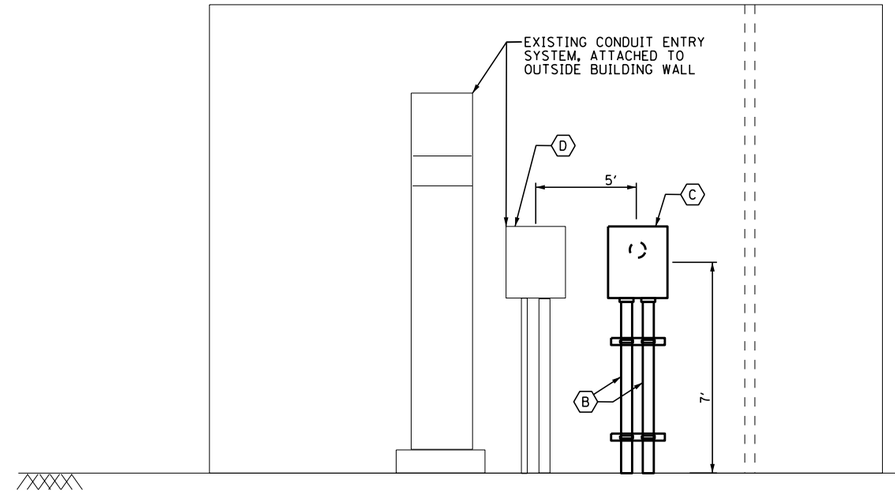


SECTION ''A-A''

KEYED NOTES:

(A) PROPOSED FIBER OPTIC CABLE 12 FIBER LATERAL, SINGLE MODE IN COILABLE NONMETALLIC CONDUIT, 1 1/4'' DIA.

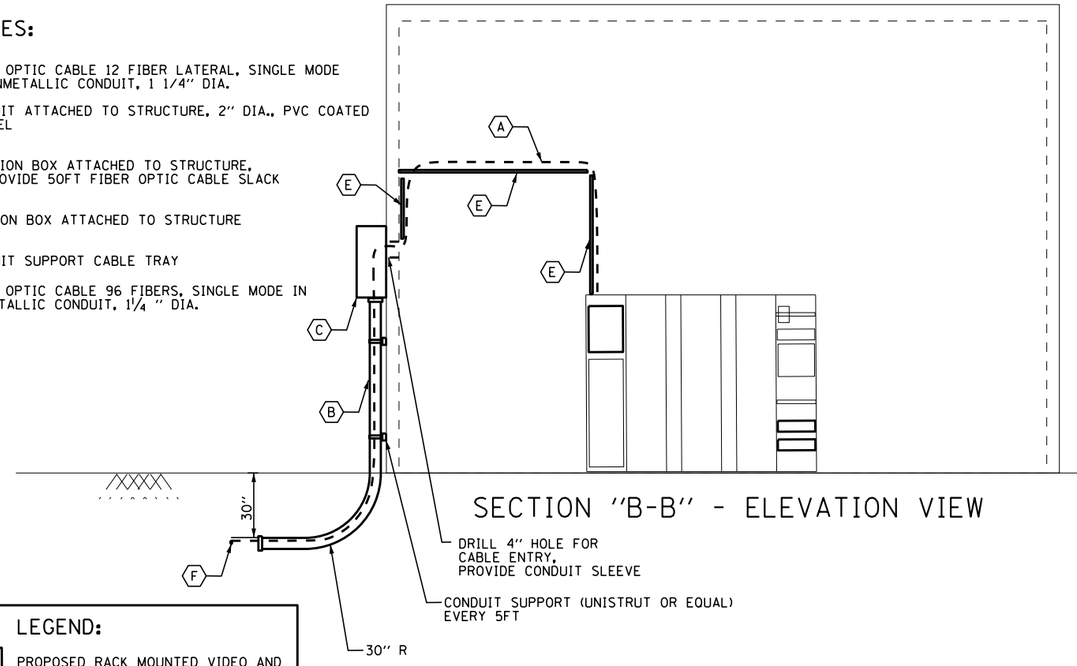
(B) PROPOSED CONDUIT ATTACHED TO STRUCTURE, 2'' DIA., PVC COATED GALVANIZED STEEL

(C) PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE, 42''x36''x12'', PROVIDE 50FT FIBER OPTIC CABLE SLACK

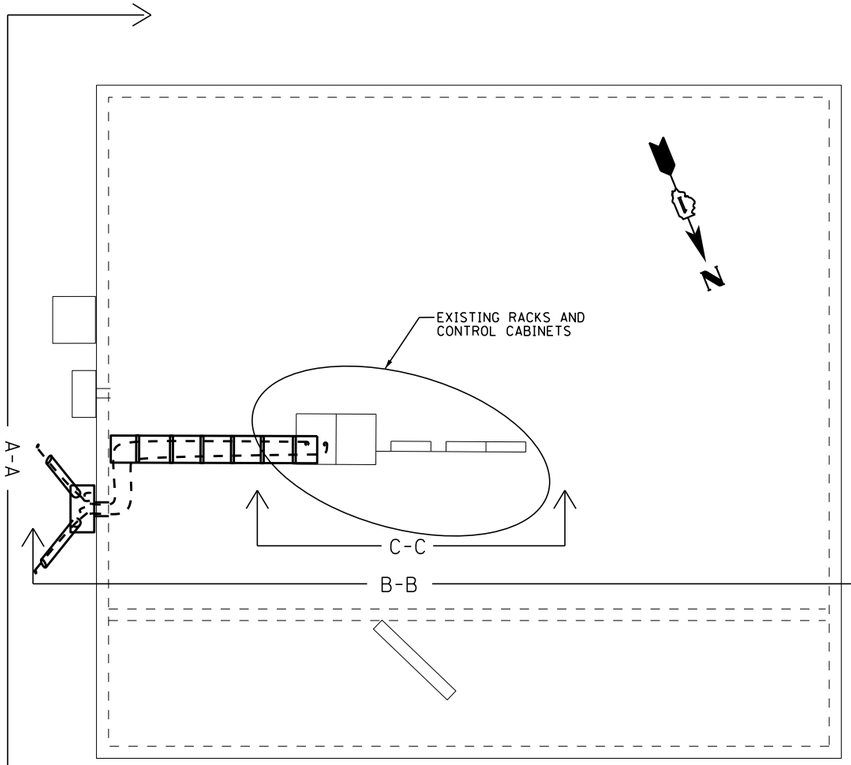
(D) EXISTING JUNCTION BOX ATTACHED TO STRUCTURE

(E) PROPOSED CONDUIT SUPPORT CABLE TRAY

(F) PROPOSED FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE IN COILABLE NONMETALLIC CONDUIT, 1¼ '' DIA.



SECTION ''B-B'' - ELEVATION VIEW



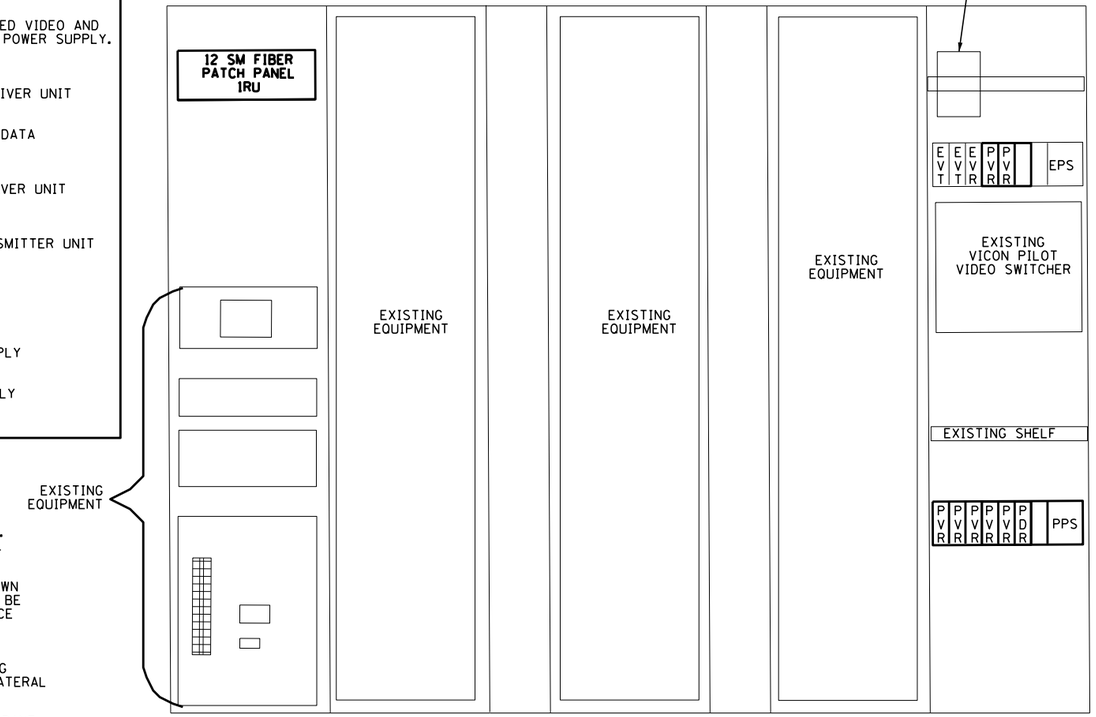
REMOTE CONTROL BUILDING A - PLAN VIEW

LEGEND:

PVR PVR PVR PDR PPS	PROPOSED RACK MOUNTED VIDEO AND DATA CARD CAGE AND POWER SUPPLY.
EVT EVR EVR PVR PVR EPS	EXISTING RACK MOUNTED VIDEO AND DATA CARD CAGE AND POWER SUPPLY. MFG. IFS
PVR	PROPOSED VIDEO RECEIVER UNIT
PDR	PROPOSED VIDEO AND DATA TRANSCEIVER UNIT
EVR	EXISTING VIDEO RECEIVER UNIT MFG. IFS
EVT	EXISTING VIDEO TRANSMITTER UNIT MFG. IFS
	SPACE
PPS	PROPOSED POWER SUPPLY
EPS	EXISTING POWER SUPPLY MFG. IFS

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION AND MAKE NECESSARY ADJUSTMENT NEEDED TO MAKE PROPOSED SYSTEM OPERATIONAL. THE DETAILS ON THIS DRAWING DO NOT SHOW ALL THE EXISTING EQUIPMENT FOR CLARITY.
2. THE PROPOSED FIBER OPTIC INTERFACE WORK SHOWN ON THIS DRAWING INCLUDING CONNECTIONS SHALL BE INCLUDED AS PART OF THE FIBER OPTIC INTERFACE AT REMOTE CONTROL BUILDING A PAY ITEM, UNLESS NOTED OTHERWISE.
3. THE CONDUIT ATTACHED TO OUTSIDE THE BUILDING STRUCTURE, ATTACHED JUNCTION BOX, 12 SMFO LATERAL CABLE AND CONDUIT ARE PAID SEPARATELY.
4. PROVIDE SC CONNECTORS AT FIBER OPTIC PATCH PANEL AND ST CONNECTORS AT VIDEO AND DATA RECEIVERS/TRANSCEIVERS.
5. TERMINATE 12 SINGLE MODE STRANDS



SECTION ''C-C''

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PLOT DATE = 06-MAY-2015 18:48	DATE - 5/6/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOTE CONTROL BUILDING A
FIBER OPTIC CABLE INTERFACE DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	60
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

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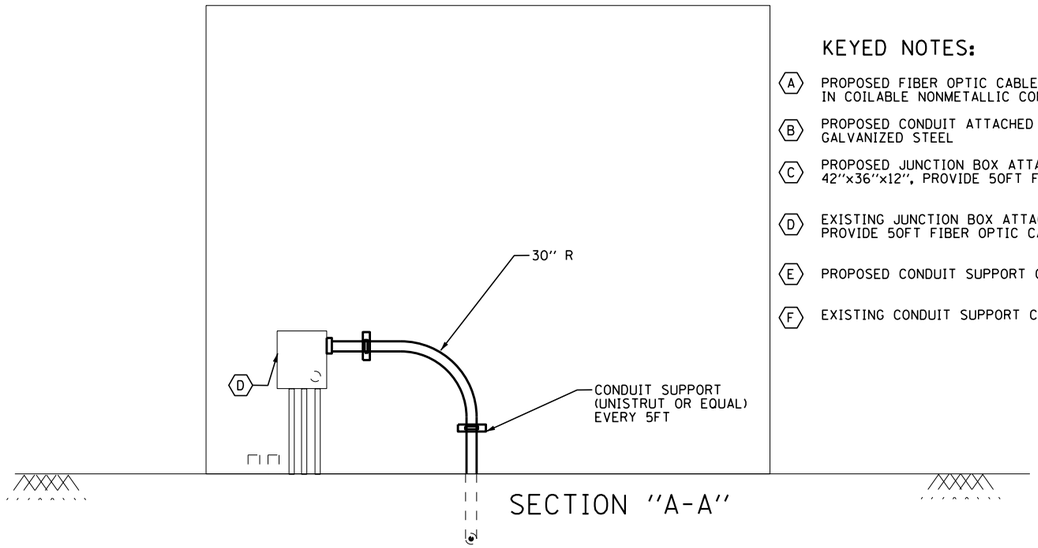
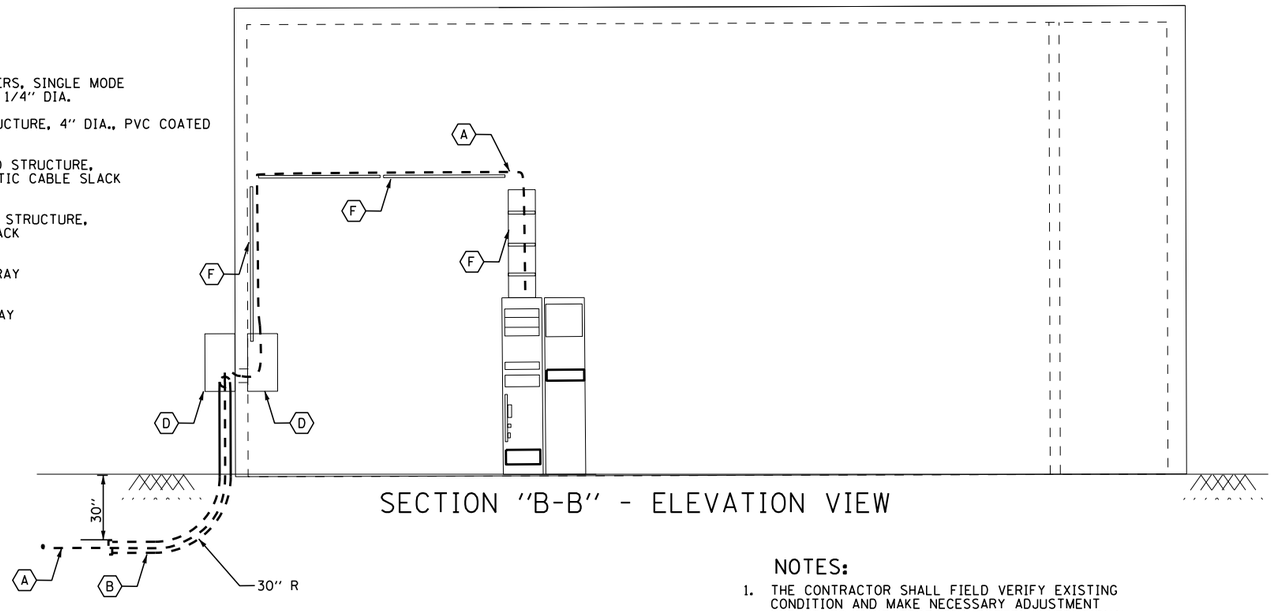


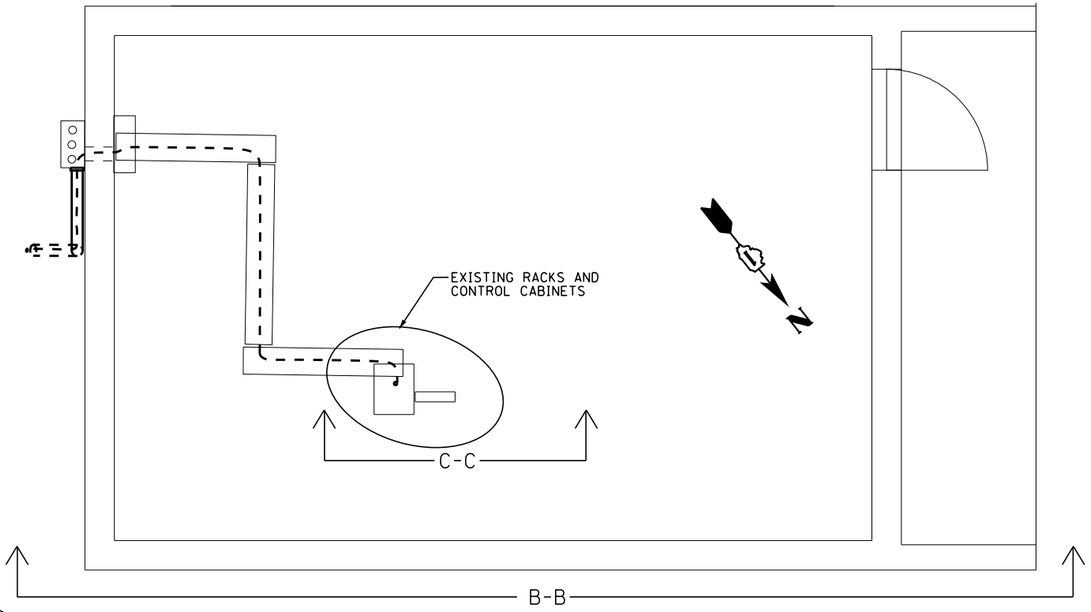
SECTION "A-A"

KEYED NOTES:

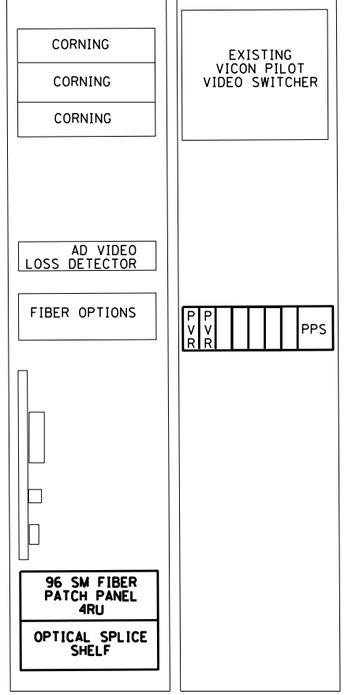
- (A) PROPOSED FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE IN COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.
- (B) PROPOSED CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- (C) PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE, 42"x36"x12", PROVIDE 50FT FIBER OPTIC CABLE SLACK
- (D) EXISTING JUNCTION BOX ATTACHED TO STRUCTURE, PROVIDE 50FT FIBER OPTIC CABLE SLACK
- (E) PROPOSED CONDUIT SUPPORT CABLE TRAY
- (F) EXISTING CONDUIT SUPPORT CABLE TRAY



SECTION "B-B" - ELEVATION VIEW



REMOTE CONTROL BUILDING C - PLAN VIEW



SECTION "C-C"

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION AND MAKE NECESSARY ADJUSTMENT NEEDED TO MAKE PROPOSED SYSTEM OPERATIONAL. THE DETAILS ON THIS DRAWING DO NOT SHOW ALL THE EXISTING EQUIPMENT FOR CLARITY.
2. THE PROPOSED FIBER OPTIC INTERFACE WORK SHOWN ON THIS DRAWING INCLUDING CONNECTIONS SHALL BE INCLUDED AS PART OF THE FIBER OPTIC INTERFACE AT REMOTE CONTROL BUILDING C PAY ITEM, UNLESS NOTED OTHERWISE.
3. THE CONDUIT ATTACHED TO OUTSIDE THE BUILDING STRUCTURE, 96 SMFO CABLE AND CONDUIT ARE PAID SEPARATELY.
4. PROVIDE SC CONNECTORS AT FIBER OPTIC PATCH PANEL AND ST CONNECTORS AT VIDEO AND DATA RECEIVERS.
5. TERMINATE 96 SINGLE MODE STRANDS

LEGEND:

- PVR PVR PPS — PROPOSED RACK MOUNTED VIDEO AND DATA CARD CAGE AND POWER SUPPLY.
- PVR — PROPOSED VIDEO RECEIVER UNIT
- PDR — PROPOSED VIDEO AND DATA TRANSCEIVER UNIT
- SPACE
- PPS — PROPOSED POWER SUPPLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOTE CONTROL BUILDING C
FIBER OPTIC CABLE INTERFACE DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	61
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

KEYED NOTES:

(A) PROPOSED FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE IN COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.

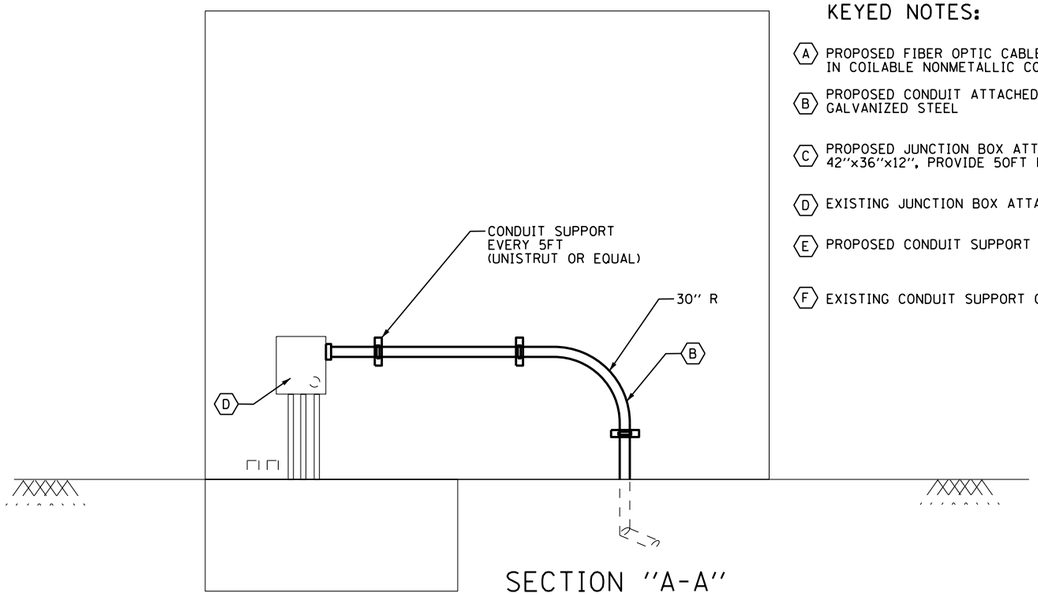
(B) PROPOSED CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL

(C) PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE, 42"x36"x12", PROVIDE 50FT FIBER OPTIC CABLE SLACK

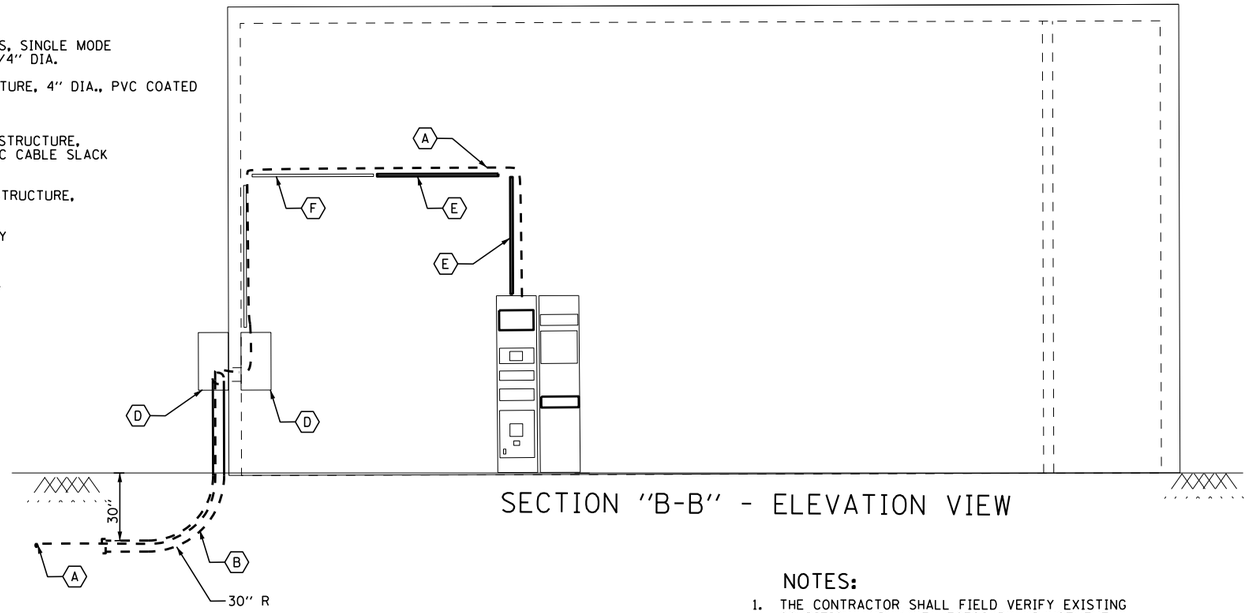
(D) EXISTING JUNCTION BOX ATTACHED TO STRUCTURE.

(E) PROPOSED CONDUIT SUPPORT CABLE TRAY

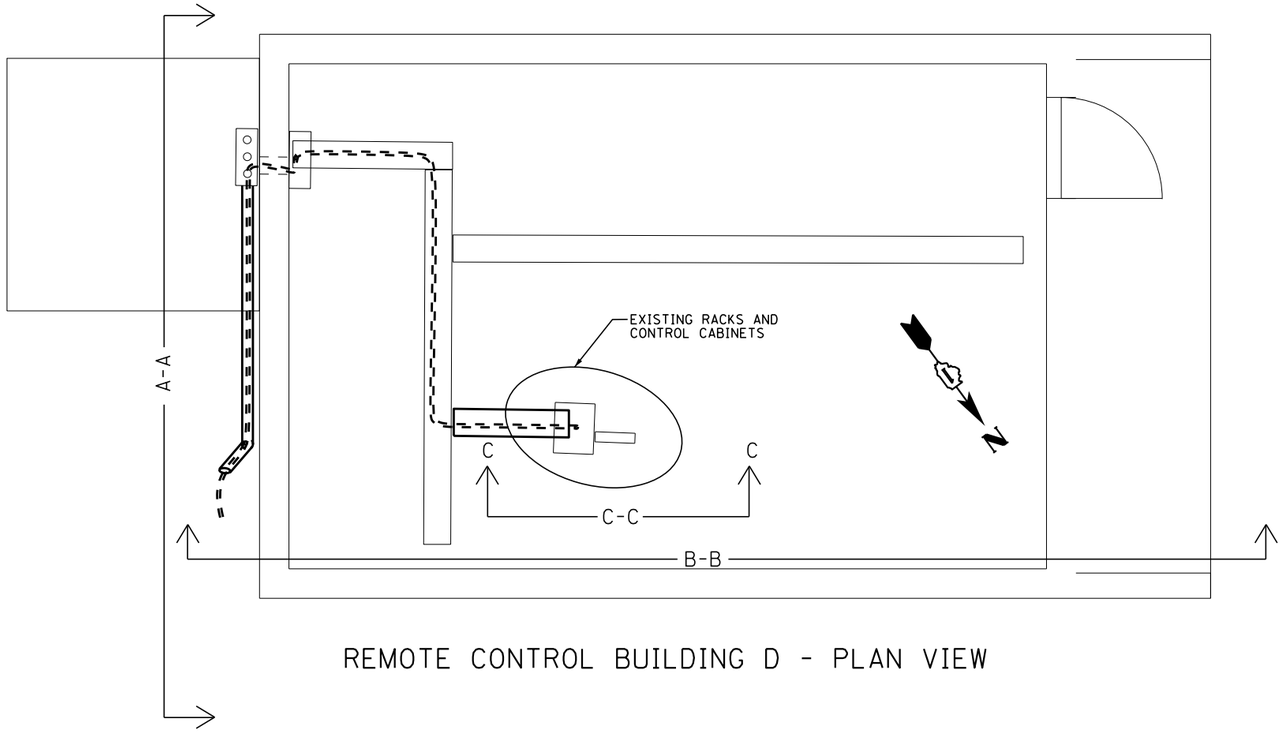
(F) EXISTING CONDUIT SUPPORT CABLE TRAY



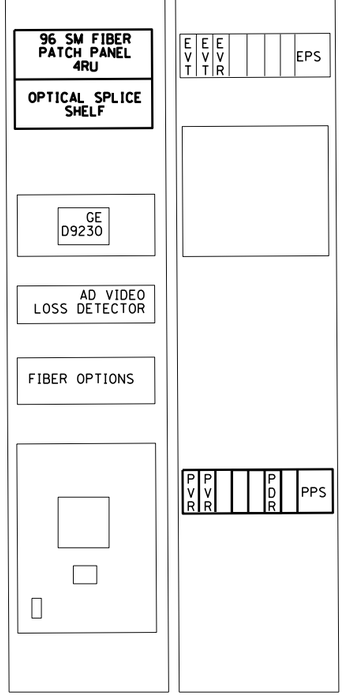
SECTION "A-A"



SECTION "B-B" - ELEVATION VIEW



REMOTE CONTROL BUILDING D - PLAN VIEW



SECTION "C-C"

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION AND MAKE NECESSARY ADJUSTMENT NEEDED TO MAKE PROPOSED SYSTEM OPERATIONAL. THE DETAILS ON THIS DRAWING DO NOT SHOW ALL THE EXISTING EQUIPMENT FOR CLARITY.
2. THE PROPOSED FIBER OPTIC INTERFACE WORK SHOWN ON THIS DRAWING INCLUDING CONNECTIONS SHALL BE INCLUDED AS PART OF THE FIBER OPTIC INTERFACE AT REMOTE CONTROL BUILDING D PAY ITEM, UNLESS NOTED OTHERWISE.
3. THE CONDUIT ATTACHED TO OUTSIDE THE BUILDING STRUCTURE, 96 SMFO CABLE AND CONDUIT ARE PAID SEPARATELY.
4. PROVIDE SC CONNECTORS AT FIBER OPTIC PATCH PANEL AND ST CONNECTORS AT VIDEO AND DATA RECEIVERS.

LEGEND:

PVR PVR PDR PPS	PROPOSED RACK MOUNTED VIDEO AND DATA CARD CAGE AND POWER SUPPLY.
EVT EVT EVR EPS	EXISTING RACK MOUNTED VIDEO AND DATA CARD CAGE AND POWER SUPPLY. MFG. IFS
PVR	PROPOSED VIDEO RECEIVER UNIT
PDR	PROPOSED VIDEO AND DATA TRANSCEIVER UNIT
EVR	EXISTING VIDEO RECEIVER UNIT MFG. IFS
EVT	EXISTING VIDEO TRANSMITTER UNIT MFG. IFS
	SPACE
PPS	PROPOSED POWER SUPPLY
EPS	EXISTING POWER SUPPLY MFG. IFS

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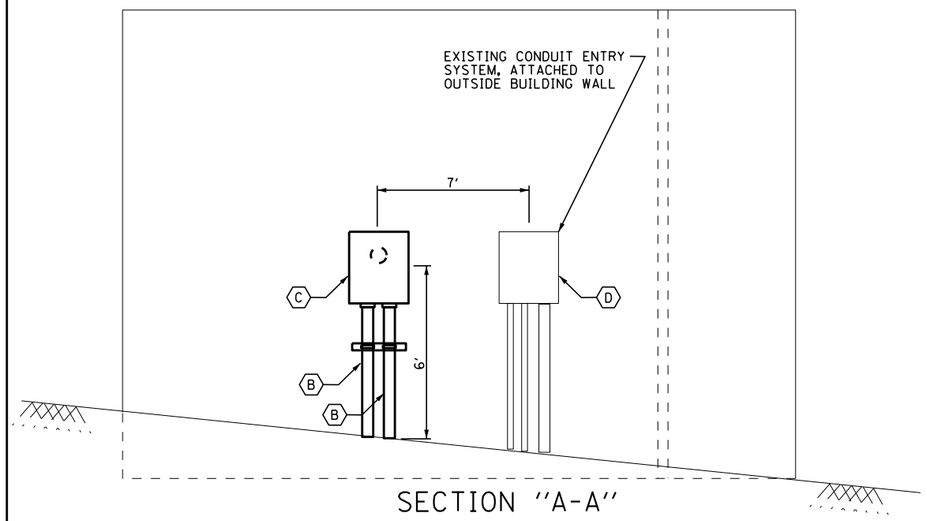
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOTE CONTROL BUILDING D
FIBER OPTIC CABLE INTERFACE DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	62
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



SECTION ''A-A''

KEYED NOTES:

Ⓐ PROPOSED FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE IN COILABLE NONMETALLIC CONDUIT, 1 1/4'' DIA.

Ⓑ PROPOSED CONDUIT ATTACHED TO STRUCTURE, 4'' DIA., PVC COATED GALVANIZED STEEL

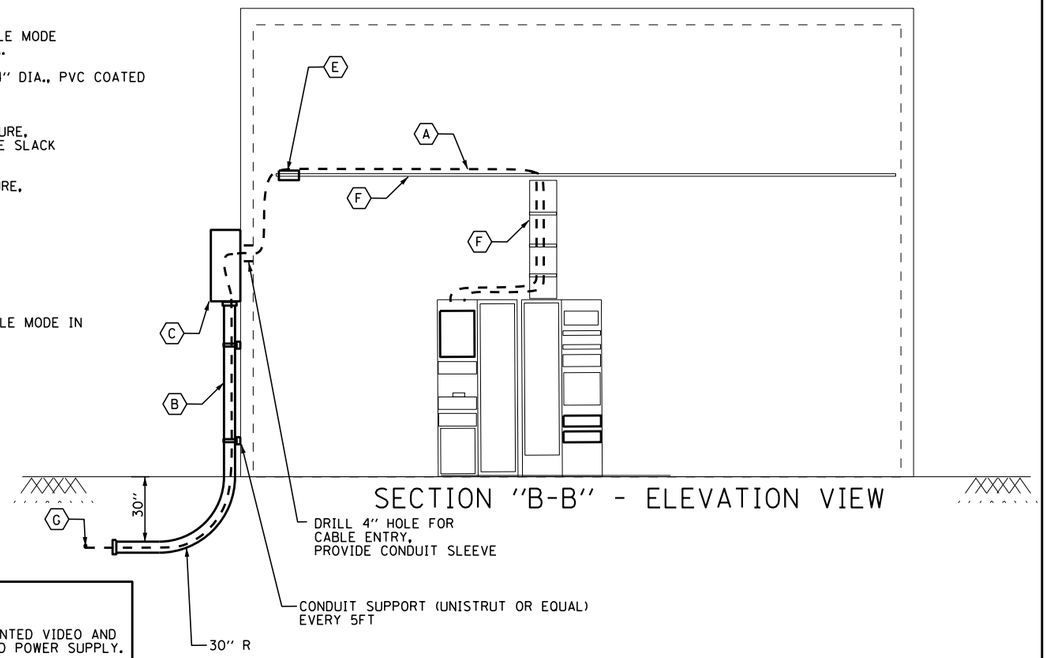
Ⓒ PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE, 42''x36''x12'', PROVIDE 50FT FIBER OPTIC CABLE SLACK

Ⓓ EXISTING JUNCTION BOX ATTACHED TO STRUCTURE, PROVIDE 50FT FIBER OPTIC CABLE SLACK

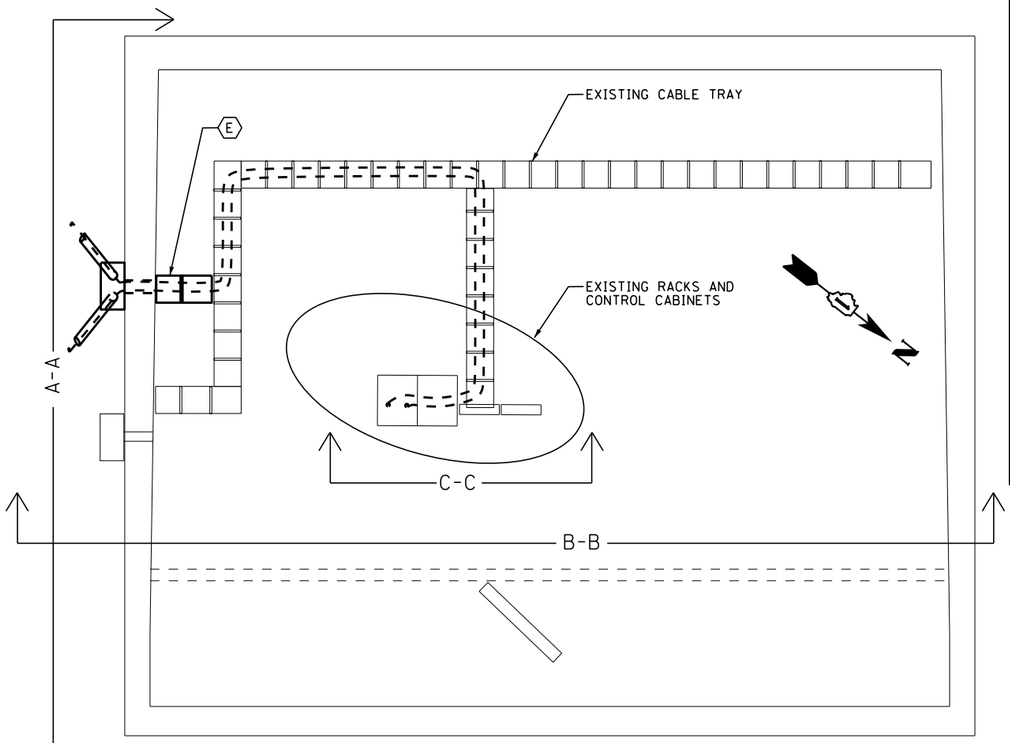
Ⓔ PROPOSED CONDUIT SUPPORT CABLE TRAY

Ⓕ EXISTING CONDUIT SUPPORT CABLE TRAY

Ⓖ PROPOSED FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE IN COILABLE NONMETALLIC CONDUIT, 1 1/4 '' DIA.



SECTION ''B-B'' - ELEVATION VIEW



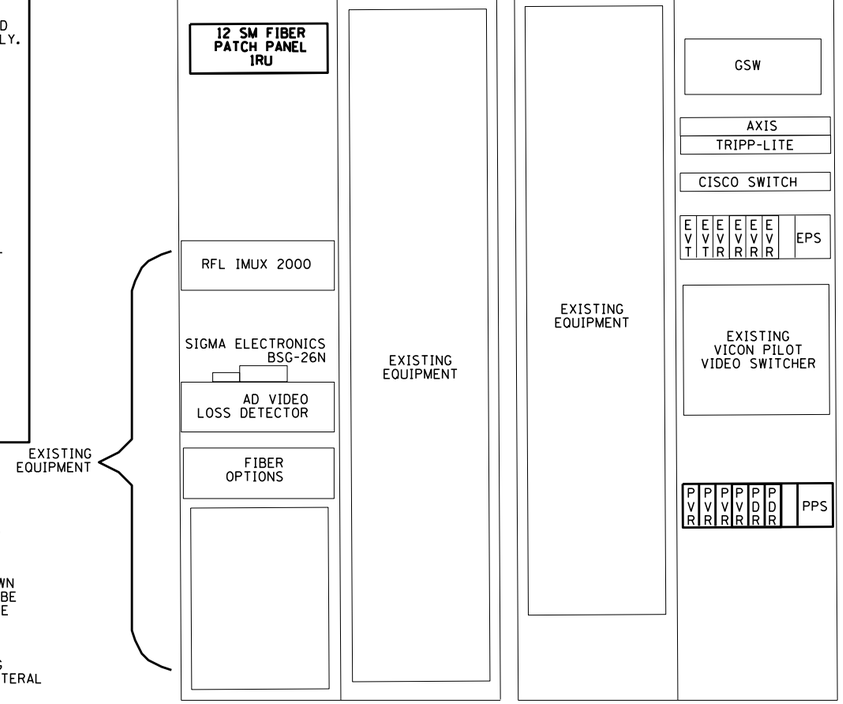
REMOTE CONTROL BUILDING E - PLAN VIEW

LEGEND:

PVR PVR PVR PDT PDR PDR PPS	PROPOSED RACK MOUNTED VIDEO AND DATA CARD CAGE AND POWER SUPPLY.
EVT EVR EVR EVR EVR EPS	EXISTING RACK MOUNTED VIDEO AND DATA CARD CAGE AND POWER SUPPLY. MFG. IFS
PVR	PROPOSED VIDEO RECEIVER UNIT
PDR	PROPOSED VIDEO AND DATA TRANSCEIVER UNIT
EVR	EXISTING VIDEO RECEIVER UNIT MFG. IFS
EVT	EXISTING VIDEO TRANSMITTER UNIT MFG. IFS
	SPACE
PPS	PROPOSED POWER SUPPLY
EPS	EXISTING POWER SUPPLY MFG. IFS

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION AND MAKE NECESSARY ADJUSTMENT NEEDED TO MAKE PROPOSED SYSTEM OPERATIONAL. THE DETAILS ON THIS DRAWING DO NOT SHOW ALL THE EXISTING EQUIPMENT FOR CLARITY.
2. THE PROPOSED FIBER OPTIC INTERFACE WORK SHOWN ON THIS DRAWING INCLUDING CONNECTIONS SHALL BE INCLUDED AS PART OF THE FIBER OPTIC INTERFACE AT REMOTE CONTROL BUILDING E PAY ITEM, UNLESS NOTED OTHERWISE.
3. THE CONDUIT ATTACHED TO OUTSIDE THE BUILDING STRUCTURE, ATTACHED JUNCTION BOX, 12 SMFO LATERAL CABLE AND CONDUIT ARE PAID SEPARATELY.
4. PROVIDE SC CONNECTORS AT FIBER OPTIC PATCH PANEL AND ST CONNECTORS AT VIDEO AND DATA RECEIVERS.



SECTION ''C-C''

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOTE CONTROL BUILDING E
FIBER OPTIC CABLE INTERFACE DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	63
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

PANELBOARD ASP — BLDG. ''A''

480 V.A.C. 3Ø 3W

FED FROM PANEL MDP-A (NOTE 1)			
CKT	LOAD DESCRIPTION	CKT	LOAD DESCRIPTION
1	CM5-DMS (NOTE 2)	2	CM4-DMS AND AUX SIGN OOAS3 (NOTE 2)
3	CM3-DMS (NOTE 2)	4	CM6-DMS (NOTE 2)
5	CM7-DMS (NOTE 2)	6	CM1-DMS (NOTE 2)
7	CM2-DMS (NOTE 2)	8	OOAS1-AUXILIARY SIGN
9	OOAS2-AUXILIARY SIGN	10	OMAS1-AUXILIARY SIGN
11	OMAS2-AUXILIARY SIGN	12	SPARE
13	SPARE	14	BLANK
15	BLANK	16	BLANK
17	BLANK	18	BLANK
19	BLANK	20	BLANK

PANELBOARD CSP — BLDG. ''C''

480 V.A.C. 3Ø 3W

FED FROM PANEL MDP-C			
CKT	LOAD DESCRIPTION	CKT	LOAD DESCRIPTION
1	CM8-DMS (NOTE 2)	2	CM9-DMS (NOTE 2)
3	OSAS1-AUXILIARY SIGN	4	OSAS2-AUXILIARY SIGN
5	SPARE	6	SPARE

PANELBOARD DSP — BLDG. ''D''

480 V.A.C. 3Ø 3W

FED FROM PANEL MDP-D			
CKT	LOAD DESCRIPTION	CKT	LOAD DESCRIPTION
1	CM10-DMS (NOTE 2)	2	CM11-DMS (NOTE 2)
3	ISAS1-AUXILIARY SIGN	4	ISAS2-AUXILIARY SIGN
5	SPARE	6	BLANK

PANELBOARD ESP — BLDG. ''E''

480 V.A.C. 3Ø 3W

FED FROM PANEL MDP-E			
CKT	LOAD DESCRIPTION	CKT	LOAD DESCRIPTION
1	CM12-DMS (NOTE 2)	2	CM13-DMS (NOTE 2)
3	CM14-DMS (NOTE 2)	4	CM15-DMS (NOTE 2)
5	IEAS1-AUXILIARY SIGN	6	IEAS2-AUXILIARY SIGN
7	IWAS1-AUXILIARY SIGN	8	IWAS2-AUXILIARY SIGN
9	SPARE	10	SPARE
11	BLANK	12	BLANK
13	BLANK	14	BLANK

NOTES:

1. THE EXISTING 100 AMP, 3-POLE BREAKER IN PANEL MDP-A FOR PANEL ASP FEED SHALL BE REMOVED AND REPLACED WITH 125 AMP, 3-POLE BREAKER.

2. THE EXISTING 15 AMP, 2-POLE BRANCH BREAKERS IN PANELS ASP, LSP, DSP AND ESP SHALL BE REPLACED WITH 40 AMP, 2-POLE BREAKERS.

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOTE BUILDING A, C, D, AND E DMS POWER PANEL SCHEDULES
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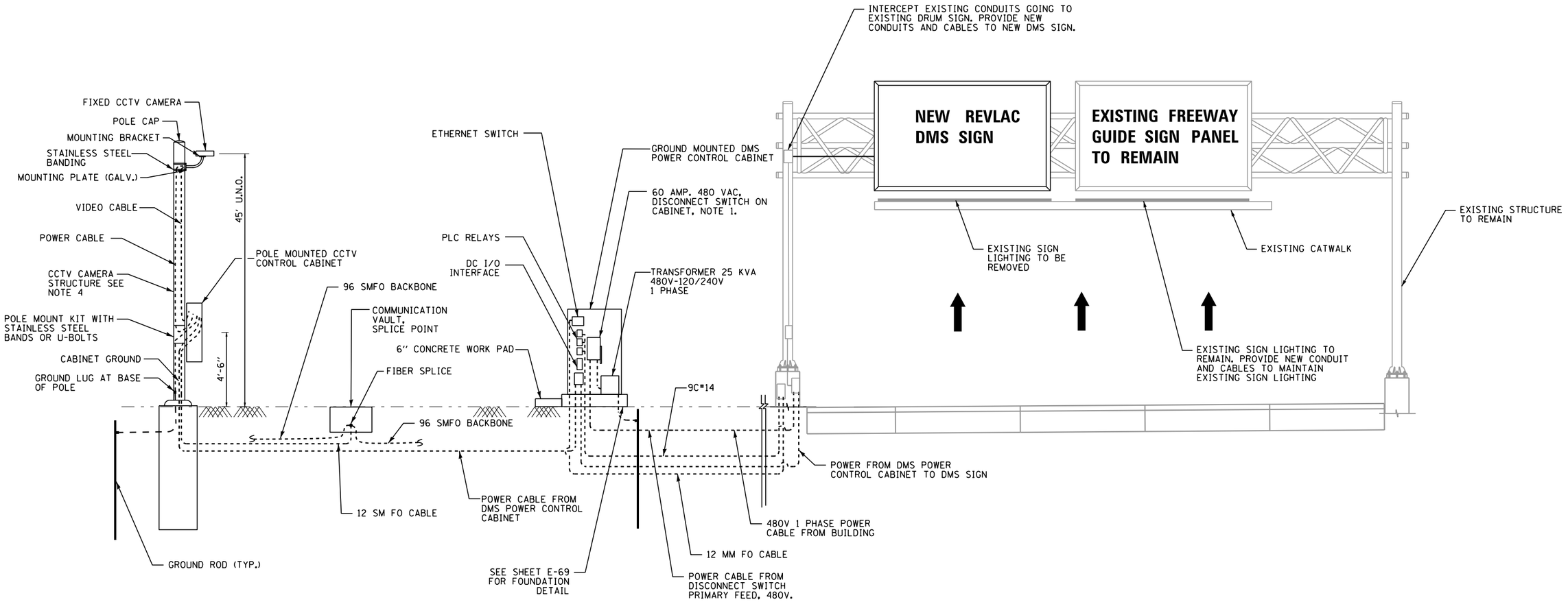
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	64
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



GENERAL NOTES:

1. FURNISH AND INSTALL LOCKABLE SERVICE DISCONNECT ON OUTSIDE OF CABINET.
2. 25KVA, 480V-120/240V SINGLE PHASE TRANSFORMER SHALL BE INSTALLED IN CABINET.
3. THIS IS A DIAGRAMMATIC SCHEMATIC, ALL BREAKERS, TRANSFORMER LOAD CENTER AND DISCONNECT SHALL BE SIZED AND WIRED AS PER MANUFACTURER RECOMMENDATIONS AND NEC.
4. INSTALLATION DETAILS OF 50' DMS CAMERA STRUCTURE SIMILAR TO IDOT STANDARD DETAIL BE-1000 FOR CCTV CAMERA 50' STRUCTURE MOUNTING HEIGHT.
5. ALL UNDERGROUND CONDUITS SHALL BE AS SHOWN ON PLANS.
6. MOUNT CLAMPS ON 5'-0" ON CENTER. MOUNTING HARDWARE SHALL BE USED AS PER CONDUIT MANUFACTURER RECOMMENDATION.
7. CONTRACTOR SHALL SUPPLY AND INSTALL CABLE REDUCER LUGS WHERE SIZE OF CABLE ENTERING THE DISCONNECT IS MORE THAN RECOMMENDED SIZE DUE TO VOLTAGE DROP.
8. THIS SCHEMATIC IS FOR GUIDANCE ONLY. CONTRACTOR SHALL WIRE THE DMS CABINET AS PER MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS.
9. CONTRACTOR SHALL PROVIDE CONNECTORS FOR COAX, POWER WIRES AND CABLE ROUTED UP THE POLE THAT MATCH THE CAMERA CONNECTORS.
10. #2 AWG GROUND WIRES SHALL BE ATTACHED TO A 10' LENGTH OF 3/4" COPPER-CLAD GROUND ROD USING EXOTHERMIC WELD.
11. USE 1 1/2" ALUMINUM NIPPLE, LB FITTING AND SEALTITE CONDUIT TO ROUTE VIDEO AND POWER TO CAMERA.
12. INSTALL GROUND MOUNTED DMS POWER CONTROL CABINET NEAR EXISTING DRUM SIGN GROUND MOUNTED CONTROL CABINET TO MINIMIZE WIRING DURING SIGN SWITCHOVER TO MAINTAIN NORMAL OPERATIONS OF REVLAC DURING CONSTRUCTION.
13. A MINIMUM VERTICAL CLEARANCE OF 12" SHALL BE MAINTAINED WHEN ELECTRICAL AND COMMUNICATION CONDUITS ARE INSTALLED IN THE SAME TRENCH. ELECTRICAL CONDUIT SHALL BE BELOW COMMUNICATION CONDUIT.

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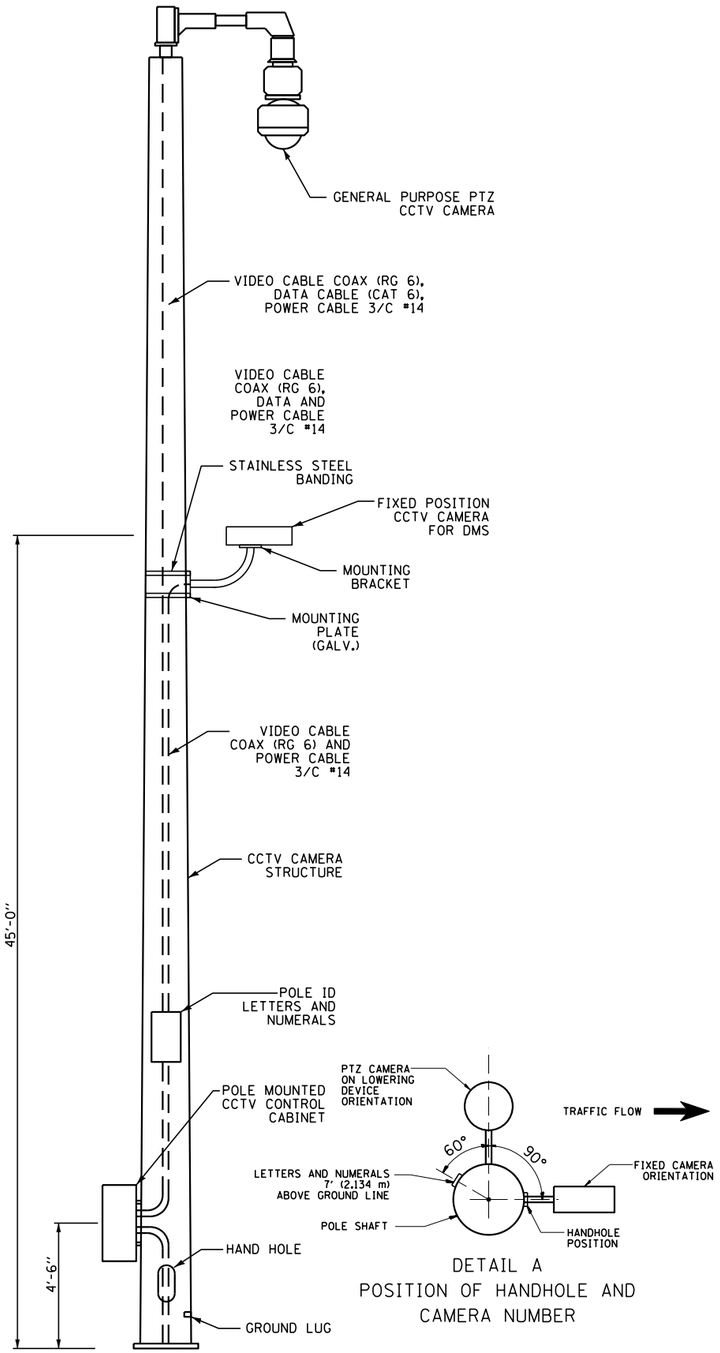
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

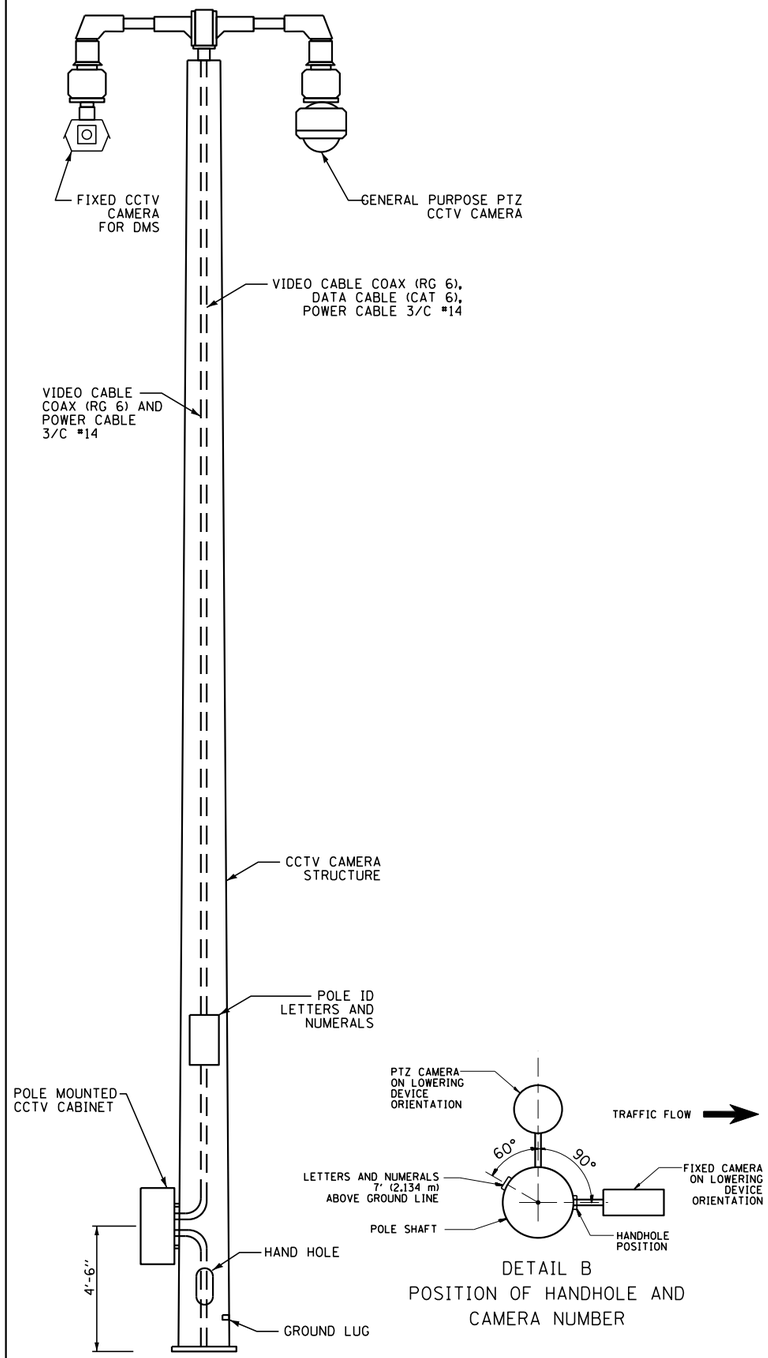
TYPICAL REVLAC DMS INSTALLATION DETAILS

SCALE: NONE | SHEET OF SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	65
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



DUAL CCTV CAMERA POLE MOUNTING FOR
CM-11, CM-12 AND CM-15 DMS VIEWING



DUAL CCTV CAMERA POLE MOUNTING FOR
CM-4 DMS VIEWING WITH DUAL CCTV CAMERA AND
CM-5 VIEWING WITH ONLY FIXED CCTV CAMERA

GENERAL NOTES:

1. LOADING AND ALLOWABLE STRESS CRITERIA: AASHTO, STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGN, LUMINAIRES, AND TRAFFIC SIGNALS.
2. MAXIMUM 1-INCH POLE TOP DEFLECTION WITH 30 MPH WIND VELOCITY, NO GUST.
3. LOCATIONS OF THE CCTV CAMERA INSTALLATIONS ARE APPROXIMATE. THE CONTRACTOR MAY ADJUST THE LOCATIONS OF THE INSTALLATIONS TO FACILITATE INSTALLATION WITH WRITTEN APPROVAL OF THE ENGINEER. ALL STANDARD NON-FRANGIBLE SETBACK REQUIREMENTS AS WELL AS CLEAR ZONE REQUIREMENTS SHALL BE MAINTAINED.
4. THE POLE SHALL BE A MAXIMUM OF THREE SECTIONS FOR FIELD ASSEMBLY. THE POLE SHAFTS SHALL BE A ROUND CROSS SECTION AND MEET THE REQUIREMENTS OF ASTM A595 GRADE A WITH A MINIMUM YIELD STRENGTH OF 55,000 PSI. THE BOTTOM SECTION SHALL HAVE A MINIMUM .3125 WALL THICKNESS AND A MINIMUM DIAMETER OF 23". THE POLE SHALL HAVE A PROVISION FOR VENTING AT THE TOP AND BOTTOM TO PREVENT CONDENSATION BUILDUP ON THE INTERIOR OF THE POLE SHAFT.
5. CABLE SUPPORTS SHALL BE PROVIDED OF ALL CABLES INSIDE OF POLE SO THAT NO CABLE LOADING IS EXCEEDED. CALCULATIONS SHALL BE PROVIDED FOR THE CABLES BEING FURNISHED.
6. ALL EQUIPMENT SHALL BE GROUNDED.
7. DOCUMENTATION SHALL BE SUBMITTED THAT THE POLE IS FULLY COORDINATED WITH THE CAMERA LOWERING DEVICE.
8. ALL CABLES, INCLUDING LOWERING DEVICE CABLES, SHALL BE WITHIN THE POLE SHAFT. EXTERNAL CABLING WILL NOT BE PERMITTED.
9. UNLESS OTHERWISE INDICATED, OR AS DIRECTED BY THE ENGINEER, THE CAMERA LOWERING DEVICE SHALL BE ORIENTED PERPENDICULAR TO THE MAINLINE INTERSTATE FOR THE LEAST OBSTRUCTED VIEW OF THE INTERSTATE ROADWAY.
10. CONTRACTOR SHALL PROVIDE CONNECTORS FOR COAX, SERIAL COMMUNICATIONS, POWER WIRES AND CABLE ROUTED UP THE POLE THAT MATCH THE CAMERA CONNECTORS.
11. J-HOOKS SHALL BE WELDED TO THE INSIDE OF POLE NEAR TOP OF POLE TO SUPPORT CABLES. GALVANIZED CAP SHALL BE INSTALLED AT TOP OF POLE AND ATTACHED BY SET SCREWS TO WELDED ANGLES.
12. FOR 80 FT. POLES WITH PTZ CCTV DOME CAMERAS, INSTALL COAX AND DATA CABLE IN 1 1/4" PVC FLEX CONDUIT FROM CCTV CONTROL CABINET TO CAMERA. FOR 50FT POLES NO CONDUIT IS ROUTED.
13. USE 1 1/2" ALUMINUM NIPPLE, LB FITTING AND SEALTITE CONDUIT TO ROUTE VIDEO POWER AND DATA AS APPLICABLE TO CAMERA.

MATERIAL REQUIREMENTS		
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFT	A595 GR. 55	55
BASE PLATE	A36	36
POLE TOP PLATE	A36	36
ANCHOR BOLTS	F1554 GR. 55	55
GALVANIZING, STRUCTURE	A123	N/A
GALVANIZING, HARDWARE	A153	N/A

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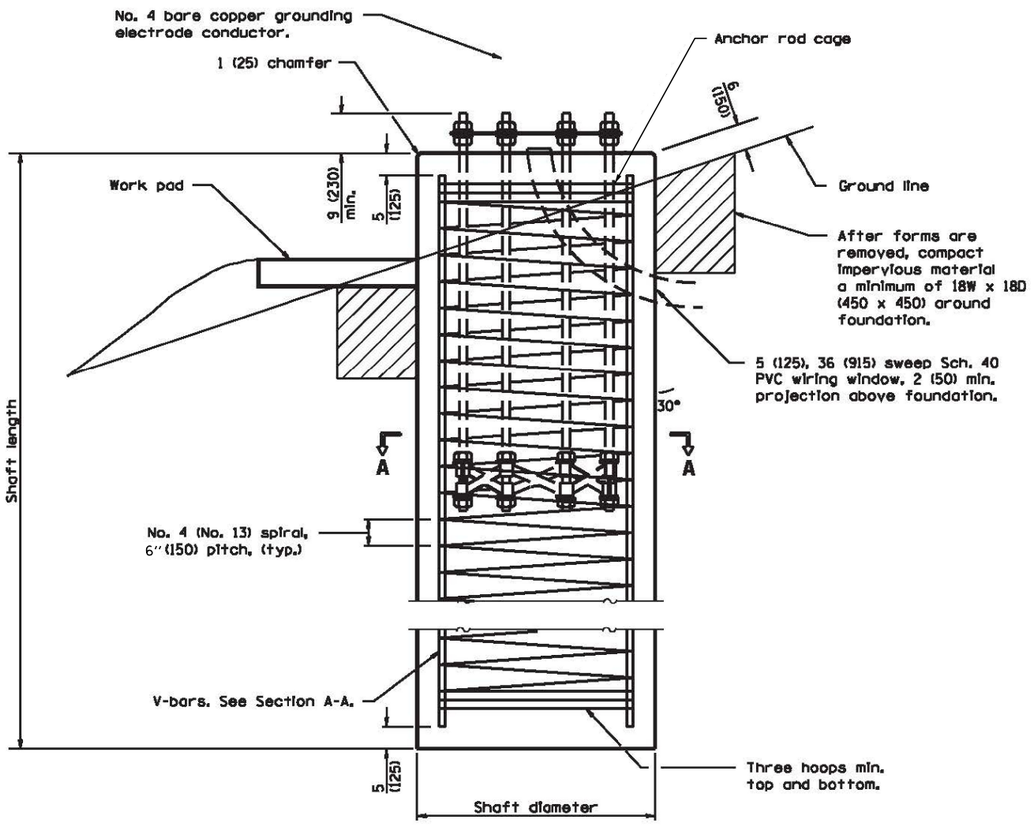
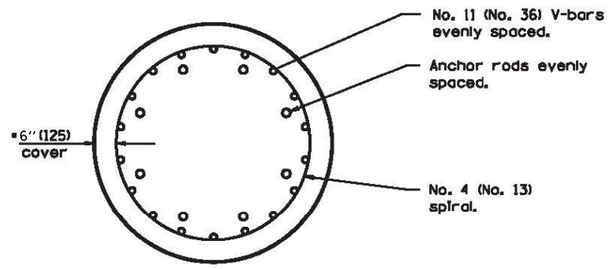
80 FT CCTV POLE DETAIL

SCALE: NONE | SHEET OF SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	66
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



FOUNDATION ELEVATION



SECTION A–A

• See Rod and Reinforcement Table.

SHAFT LENGTH TABLE			
SOIL CONSISTENCY		AVERAGE STRENGTH	HEIGHT
		Qu in tsf (Qu in kPa)	80' (24 m)
Cohesive	SOFT	< 0.5 (< 50)	20'-6" (6.2 m)
	MEDIUM	0.5 to 1 (50 to 100)	17'-0" (5.1 m)
	STIFF	1 to 2 (100 to 200)	14'-6" (4.4 m)
	VERY STIFF	2 to 4 (200 to 400)	13'-0" (3.8 m)
	HARD	> 4 (> 400)	11'-6" (3.5 m)
		N in BLOWS/FT. (N in BLOWS/0.3m)	
Granular	VERY LOOSE	< 5 (< 5)	16'-6" (5.0 m)
	LOOSE	5 to 10 (5 to 10)	15'-0" (4.6 m)
	MEDIUM	10 to 25 (10 to 25)	14'-6" (4.4 m)
	DENSE	25 to 50 (25 to 50)	14'-0" (4.1 m)
	VERY DENSE	> 50 (> 50)	13'-0" (3.9 m)

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DEPARTMENT OF TRANSPORTATION

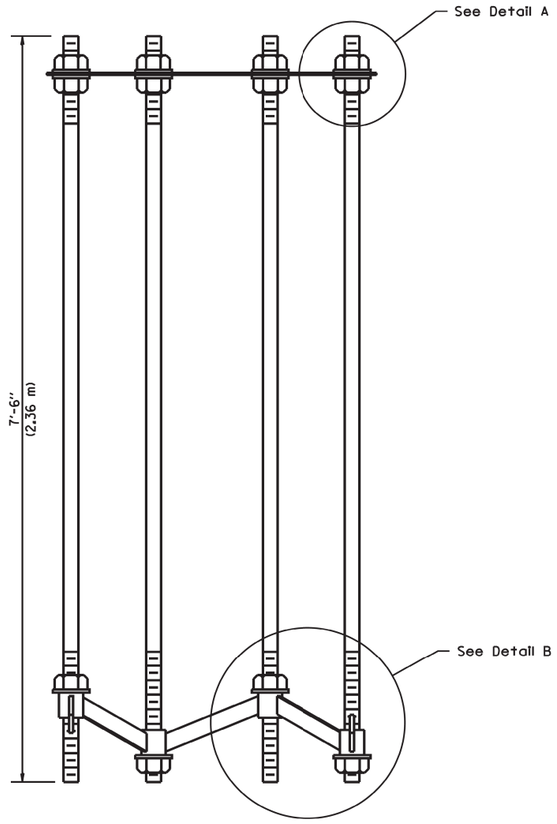
CCTV CAMERA STRUCTURE, 80 FT. M.H.
FOUNDATION, SHEET 1 OF 2

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

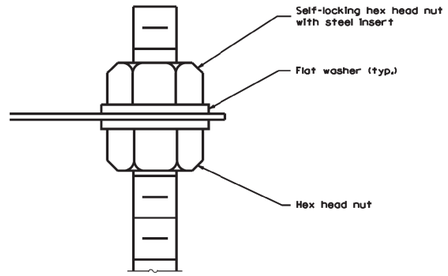
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	67
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

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′ (25 m)	1½ (38)	30 (760)	24 (610)	4′-0″ (1.2 m)	14

(1) Diameter based on a 5 (125) conc. cover. The min. cover shall be 3 (75) in dry shaft excavation and 4 (100) in a wet hole. When rock is encountered a 5 (125) cover against soil and a 2 (50) cover against rock shall be required.



SECTION B–B



DETAIL A

GENERAL 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.

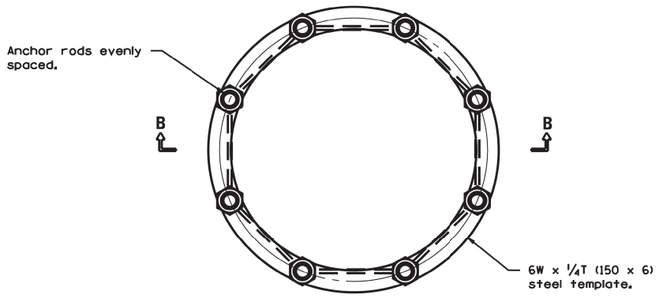
Steel anchor rod forms shall not be removed for a minimum of 3 days after concrete is poured. The tower shall not be set for a minimum of 7 days or as approved by the Engineer.

Coordinate the rod circle diameter of the structure with the diameter of the anchor rod cage.

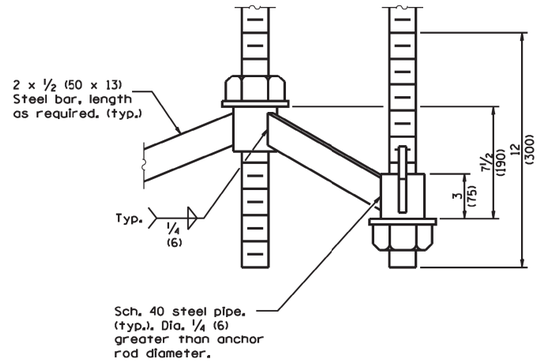
The foundation shall be poured monolithically and shall have no construction joints.

Grounding electrodes shall be installed in an access well when there is a conflict in using the method shown.

All dimensions are in inches (millimeters) unless otherwise shown.



ANCHOR ROD CAGE (PLAN)



DETAIL B

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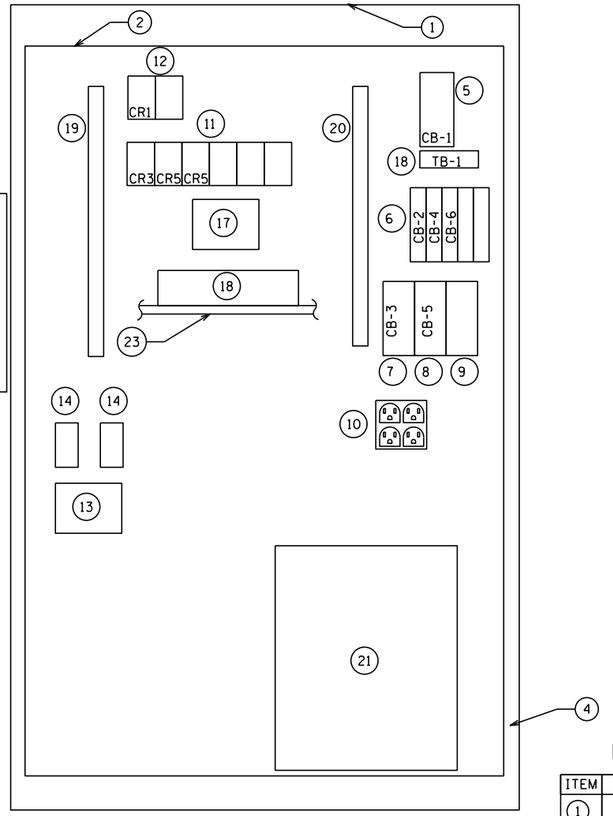
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

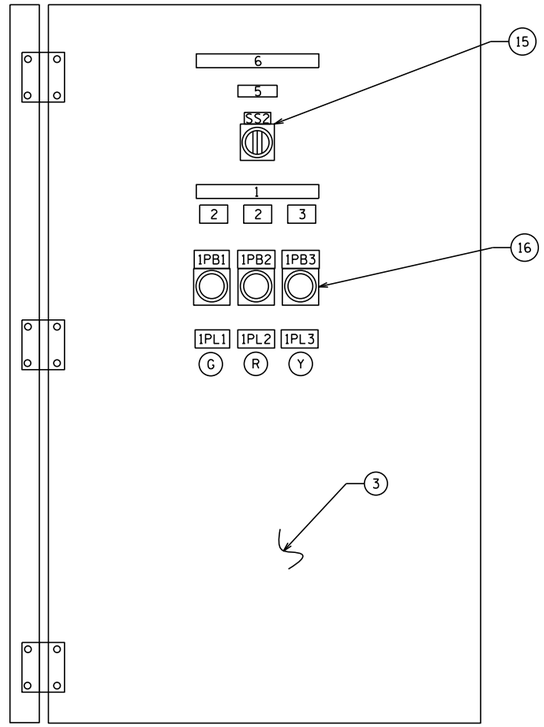
CCTV CAMERA STRUCTURE, 80 FT. M.H.
FOUNDATION, SHEET 2 OF 2

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	68
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



FRONT VIEW: INNER-BACK PANEL LAYOUT

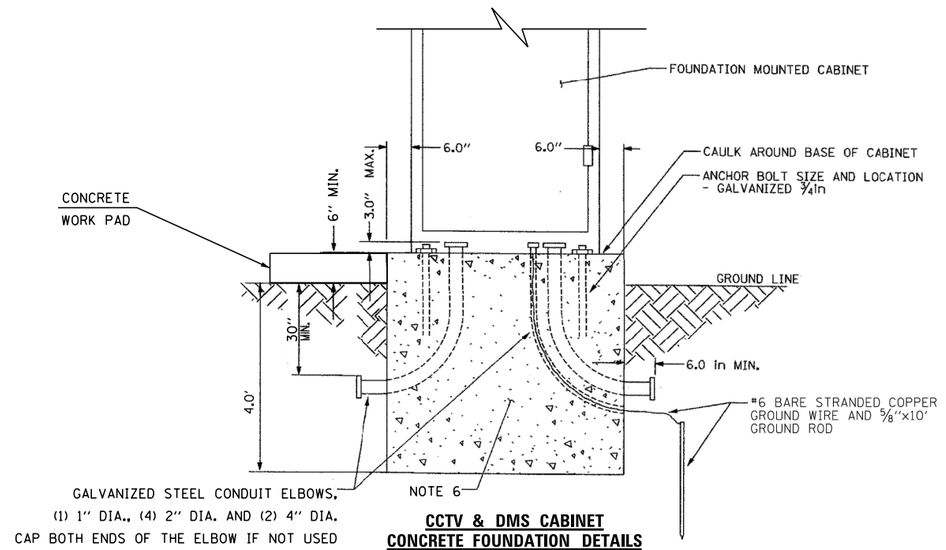


FRONT VIEW: INNER-SWING OUT PANEL LAYOUT

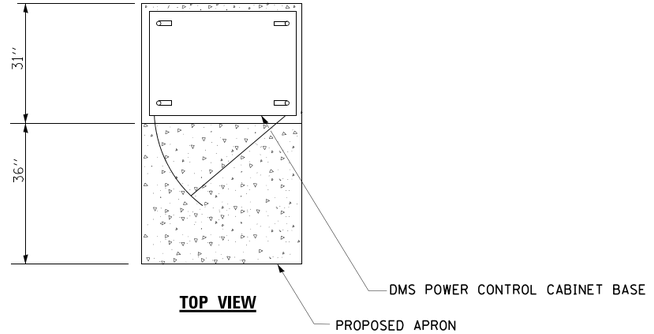
NP	ENGRAVE TABLE A	QTY.
1	TOP LINE	1
2	EXPRESS	2
3	BLANK	1
4	120V AC	1
5	CONTROL MODE SELECTOR SWITCH	1
6	VARIABLE MESSAGE SIGN CONTROL PANEL	1

DEVICE	ENGRAVE TABLE B
SS2	REMOTE-OFF-LOCAL
1PB1	LANE OPEN STATE
1PB2	LANE CLOSE STATE
1PB3	BLANK STATE
1PL-1	LANE OPEN STATE
1PL-2	LANE CLOSE STATE
1PL-3	BLANK STATE

ITEM	QTY.	DESCRIPTION
1	1	CONTROL ENCL. 5.5'(H) X 3'(W) X 2.5' (D) 10GA. ST. STL SINGLE DOOR HINGE RIGHT SIDE. PADLOCK HANDLE
2	1	INNER BACK PANEL
3	1	INNER SWING OUT PANEL HINGE RIGHT SIDE WITH QUARTER TURN LATCHES
4	1	DOOR PANEL (HINGE RIGHT SIDE)
5	1	MAIN CIRCUIT BREAKER 100A, 2P, 240V AC
6	5	CIRCUIT BREAKER 20A, 1P, 120V AC (2-SPARE)
7	1	CIRCUIT BREAKER 80A, 2P, 240V AC
8	1	CIRCUIT BREAKER 30A, 2P, 240V AC
9	1	CIRCUIT BREAKER 80A, 2P, 240V AC (SPARE)
10	2	20A, DUPLEX RECEPTACLE
11	6	PLC LADDER CONTROL CONTROL RELAY 125V DC (3-SPARE)
12	2	LINE VOLTAGE CONTROL RELAY 120V AC (1-SPARE)
13	1	POWER LINE FILTER, 30A, 120V AC, 60 HZ
14	1	SURGE PROTECTION DEVICE, TYPE II
15	1	SELECTOR SWITCH 3 POSITION ROTORY TYPE STANDARD KNOB
16	3	PUSH BUTTON, 1 NC, 1 NO CONTACT, GREEN COLOR CAP.
NOTE 7 17	1	DC I/O INTERFACE
18	1	ETHERNET SWITCH
19	1	TERMINAL BLOCK ASSEMBLY 300V AC
20	1	TERMINAL BLOCK ASSEMBLY 125V DC
21	1	STEPDOWN TRANSFORMER, 25KVA, 480 /240-120V WITH 5% TAPS
22	1	60AMP, 2-POLE FUSED DISCONNECT SWITCH, FUSED AT 40AMP. LOCATED OUTSIDE THE CABINET
23	1	SHELF



CCTV & DMS CABINET CONCRETE FOUNDATION DETAILS



TOP VIEW

NOTES:

1. REFER TO SPECIAL PROVISIONS FOR CABINET DETAILS AND ADDITIONAL REQUIREMENTS.
2. CABINET ENTRIES INCLUDE VERTICAL ARRANGEMENT FOR MAJOR EQUIPMENT ITEMS ONLY.
3. INSTALL ADDITIONAL ITEMS ON SIDE AND BACK PANELS PER THE SPECIAL PROVISIONS.
4. THE CONTRACTOR SHALL INSTALL INSULATED BUSHINGS AND DUCT SEALANT AT ALL CONDUIT BEND TERMINATIONS IN FOUNDATIONS.
5. CONCRETE FOUNDATION SHALL BE FORMED AT LEAST 12" ABOVE THE GROUND SURFACE. IN FRONT OF THE CABINET DOOR PROVIDE 36"X48"X4" CONCRETE WORK PAD.
6. THE CONCRETE FOUNDATION SHALL BE CAST IN PLACE, DEPTH OF CONCRETE FOUNDATION AND CONCRETE WORK PAD MAY VARY WITH GROUND SLOPE TO MAINTAIN LEVEL MOUNTING SURFACE. FLOATING WORK PAD MAY SLOPE A MAXIMUM 3.5%.
7. THE DC I/O INTERFACE MODULE SHALL BE PAID UNDER ASSOCIATED REVLAC DMS FRONT ACCESS, LED PAY ITEM.

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DEPARTMENT OF TRANSPORTATION

REVLAC DMS CONTROL CABINET DETAILS AND CCTV AND DMS CABINET CONCRETE FOUNDATION DETAILS

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	69
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

NOTES:
1. THE PUSH BUTTONS AND SELECTOR SWITCH ARE EXISTING AND LOCATED IN THE REMOTE CONTROL BUILDING.

480V, 1Ø SOURCE FROM CONTROL BUILDING
G 1H1 1H2
60 AMP, 2-POLE FUSED DISCONNECT AT 40A. LOCATED OUTSIDE OF DMS CABINET

DMS ROADSIDE CONTROL CABINET

BONDING JUMPER
TRANSFORMER 25KVA, 1Ø, 480/240-120V WITH 2.5% TAPS
SURGE SUPP.
CB1 2P,100A
CB2 1P, 20A
GFI
CB4, 1P, 20A
CB5 2P,30A
TO CCTV CABINET AS NEEDED
CB3 2P,80A
TO DMS SIGN
120V RECEPT.
30A FILTER
1P,20A CB6
SS-2 OFF REMOTE LOCAL
CR1
OOX
XOX
XOX
XOX
0 VDC
TO PLC INPUT
XOO
125V
125 VDC
0 VDC
N1
L1
SEE SS-2 (CONT.)
CONTROL MODE SELECTOR SWITCH
NEUTRAL BUS BAR
GROUND BUS BAR

SS-1
PLC CONT ON
PLC CONT OFF
LANE OPEN SIGNAL FROM PLC OUTPUT
LANE CLOSED SIGNAL FROM PLC OUTPUT
LANE BLANK SIGNAL FROM PLC OUTPUT
1PB1A
1PB2A
1PB3A
XO
OX
TO PLC INPUT
NOTE 1

SS-2 (CONT.)
125V DC
XOO
CR1-1 1PB1 CR5-4 CR7-4 CR3
CR3-1
CR1-2 1PB2 CR3-4 CR7-5 CR5
CR5-1
CR1-3 1PB3 CR3-5 CR5-5 CR7
CR7-1
CR3-2
CR5-2
CR7-2
0 VDC
LANE OPEN LATCH RELAY
LANE CLOSE LATCH RELAY
BLANK LATCH RELAY

125V DC POWER SUPPLY RECTIFIER

ETHERNET SWITCH

DC I/O INTERFACE
LANE OPEN
LANE CLOSED
BLANK
IPL-1 CR3-3
IPL-2 CR5-3
IPL-3 CR7-3
PLC INPUTS

12 MMFO CABLES

DMS SIGN

12 MMFO CABLES
FIBER TO ETHERNET CONVERTER
CAT 5
MANUFACTURER RECOMMENDED CONTROL CABLE
DMS CONTROLLER
FIBER A (VMAX SIGNAL)
USB (UNUSED)
FIBER B (VMAX SIGNAL)
ETHERNET
POWER/SENSOR (20 PIN CONNECTOR)
JUNCTION BOX
NEUTRAL BUS BAR
GROUND BUS BAR
3/C #4, 1#8 GROUND
PHASE
PHASE
NEUTRAL
GROUND

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DEPARTMENT OF TRANSPORTATION

DMS CONTROL CABINET WIRING DIAGRAM CM-1 THRU CM-15

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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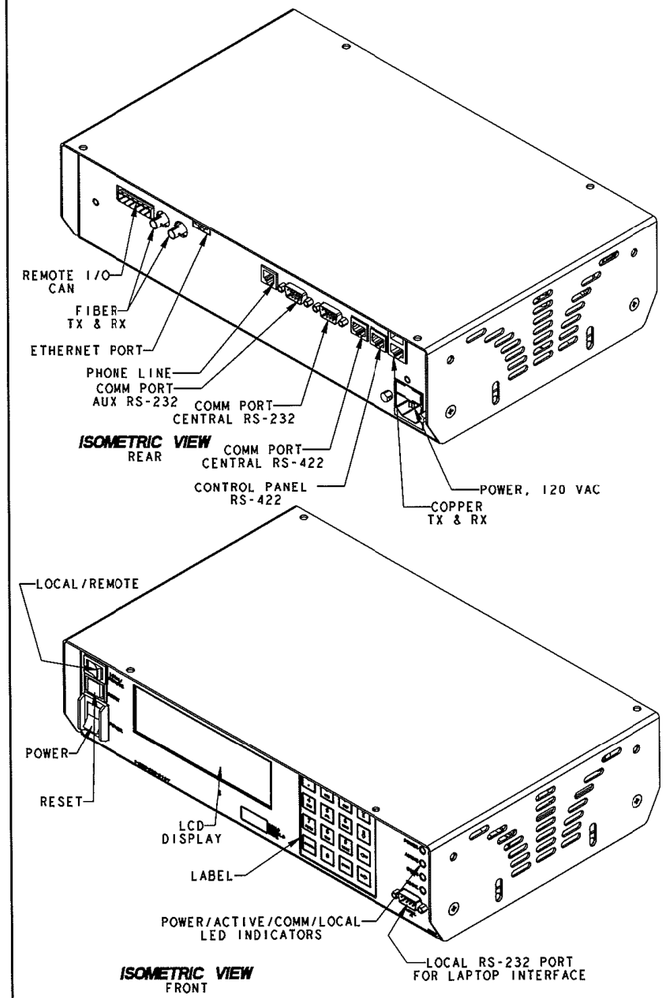
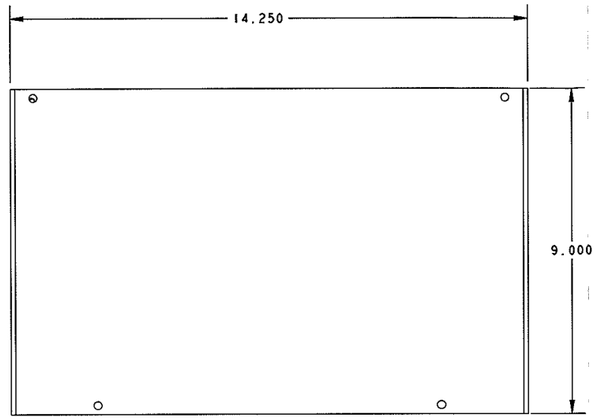
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



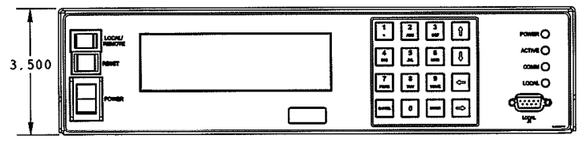
ISOMETRIC VIEW
REAR

ISOMETRIC VIEW
FRONT

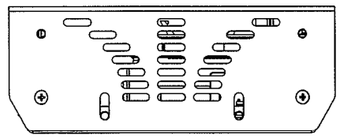
ALL DIMENSIONS ARE IN INCHES



TOP VIEW



FRONT VIEW



SIDE VIEW

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DEPARTMENT OF TRANSPORTATION

NON-REVLAC DMS CONTROLLER DETAILS

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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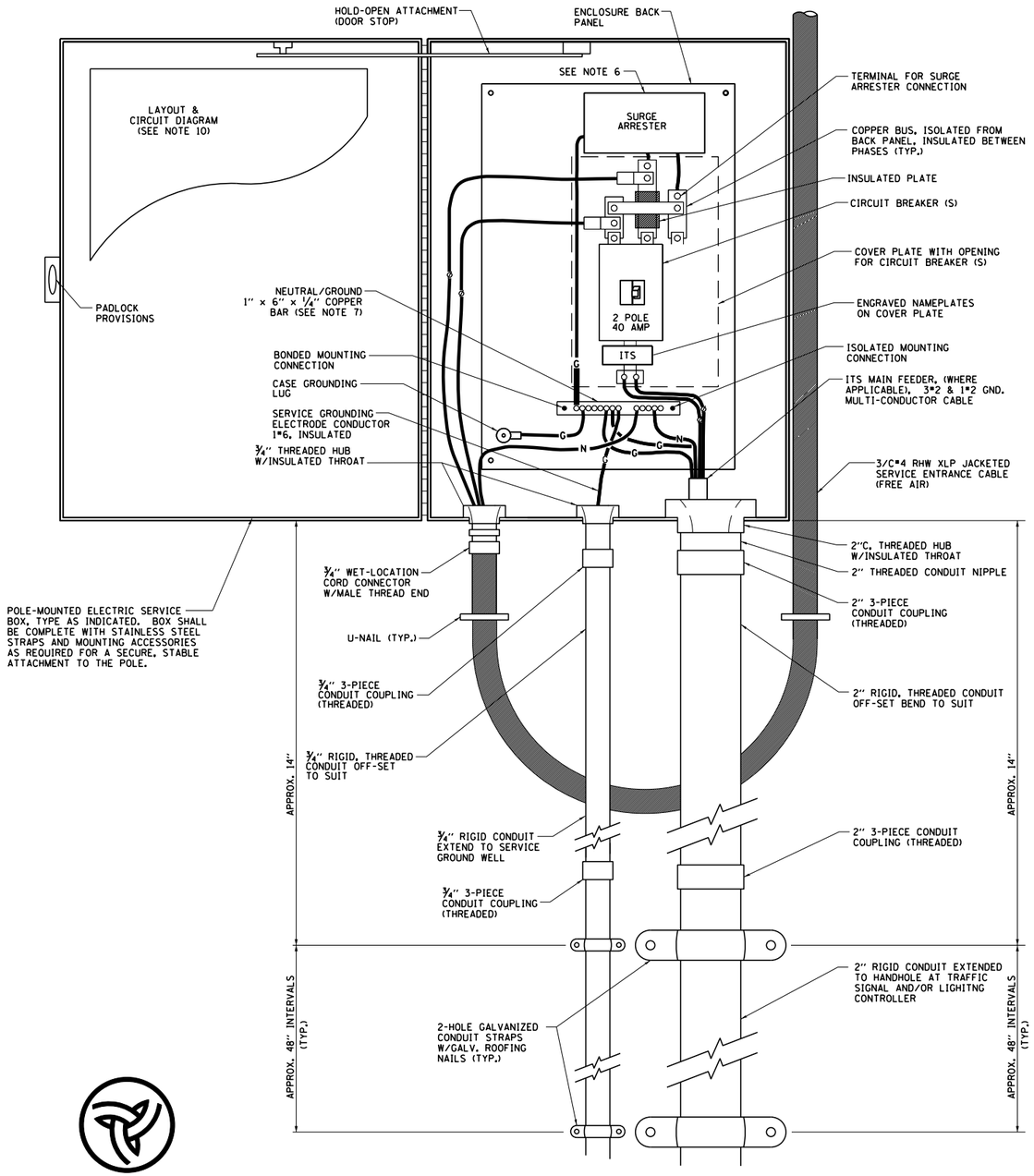
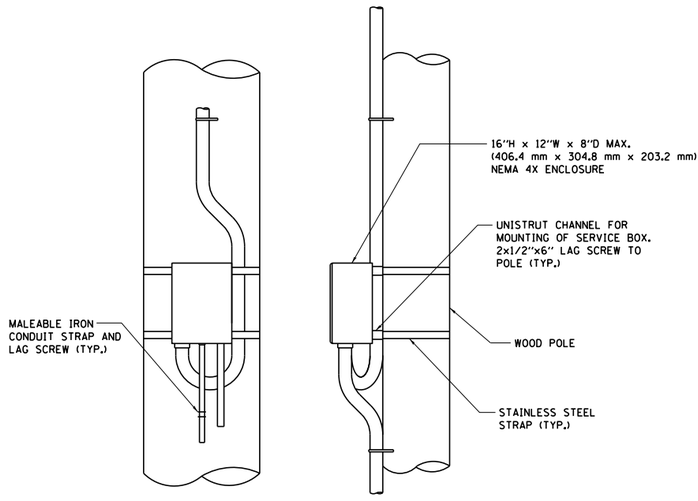
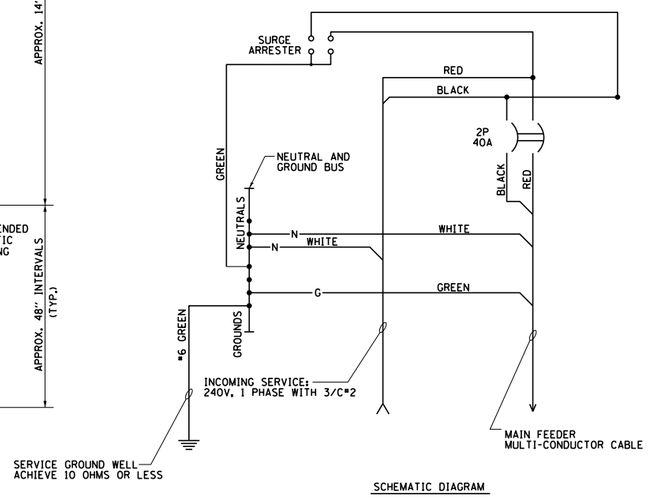
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



POLE-MOUNTED ELECTRIC SERVICE ENTRANCE
GENERAL LAYOUT DIAGRAM



DISCONNECT MOUNTING DETAIL
N.T.S.



SCHEMATIC DIAGRAM

NOTES:

1. ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
2. THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS:

   TYPE A FULLY EQUIPPED FOR 240/120V. 3W SERVICE, COMPLETE WITH ITS MAIN BREAKER
3. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
4. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H12O8SS6LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/ TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
6. THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV230L065XST OR APPROVED EQUAL.
7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
9. THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
11. A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
12. LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

6" DECAL ON FRONT COVER

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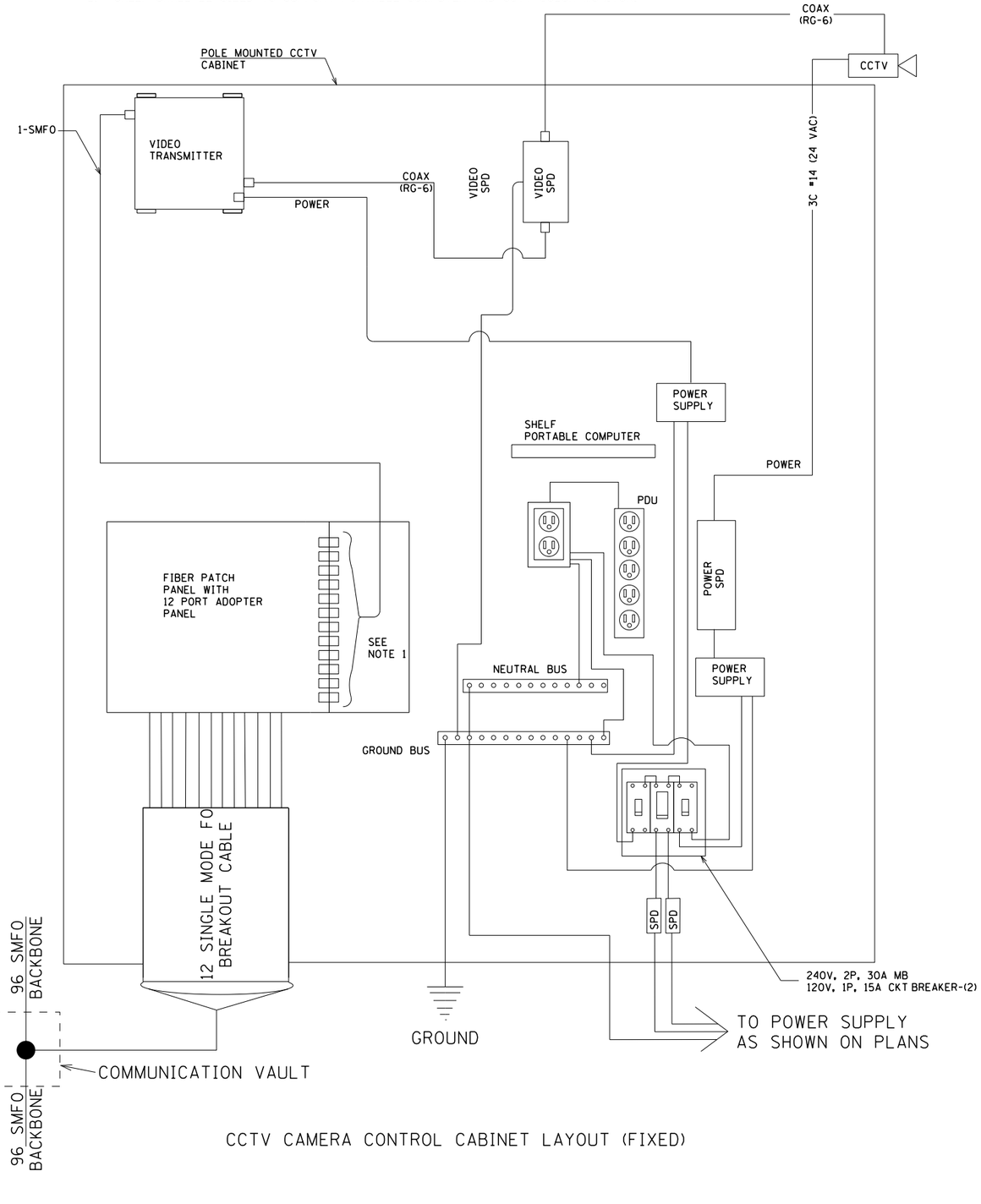
ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

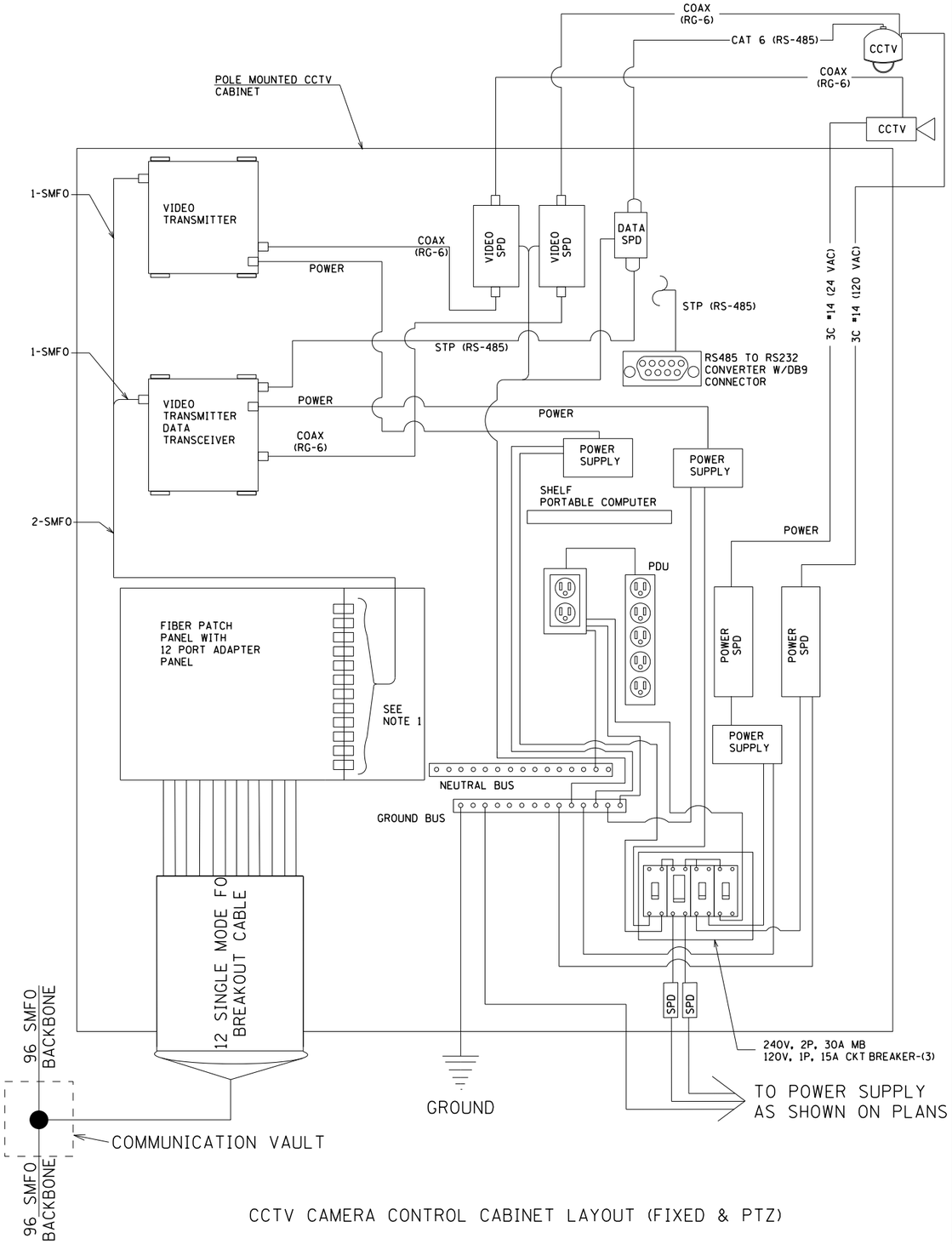
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	72
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

NOTES:

1. SEE FIBER OPTIC DISTRIBUTION DIAGRAM ON SHEETS E-77-79 FOR FIBER ASSIGNMENT FOR EACH CABINET.
2. SHELF SHALL BE SIZED TO SUPPORT PORTABLE COMPUTER AND CCTV COLOR MONITOR.



CCTV CAMERA CONTROL CABINET LAYOUT (FIXED)

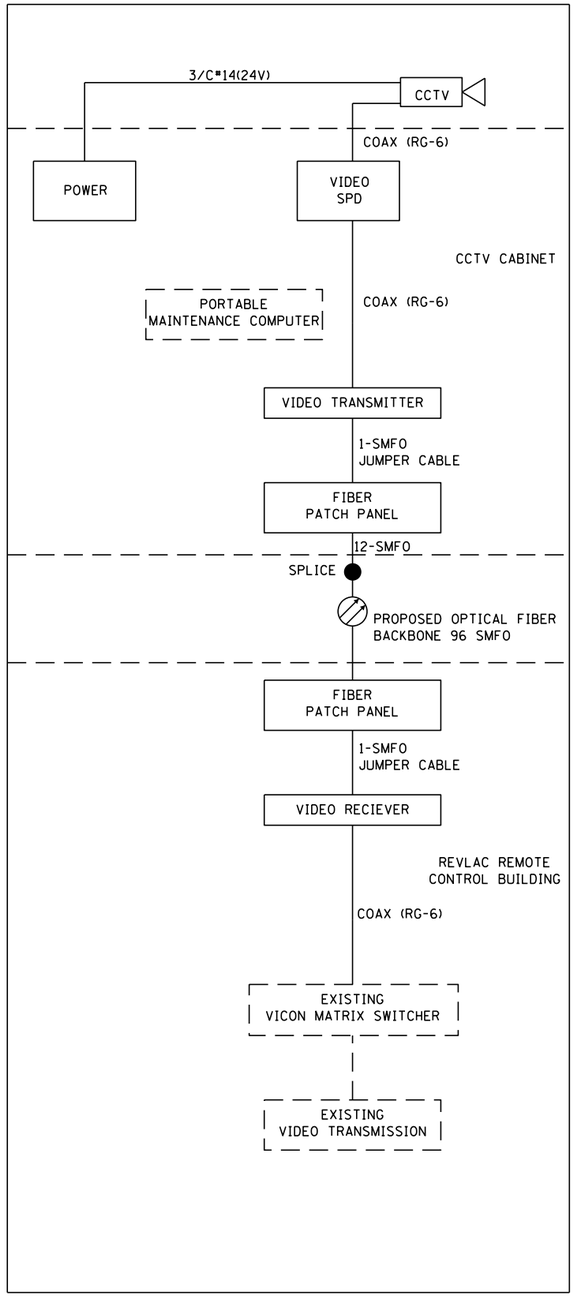


CCTV CAMERA CONTROL CABINET LAYOUT (FIXED & PTZ)

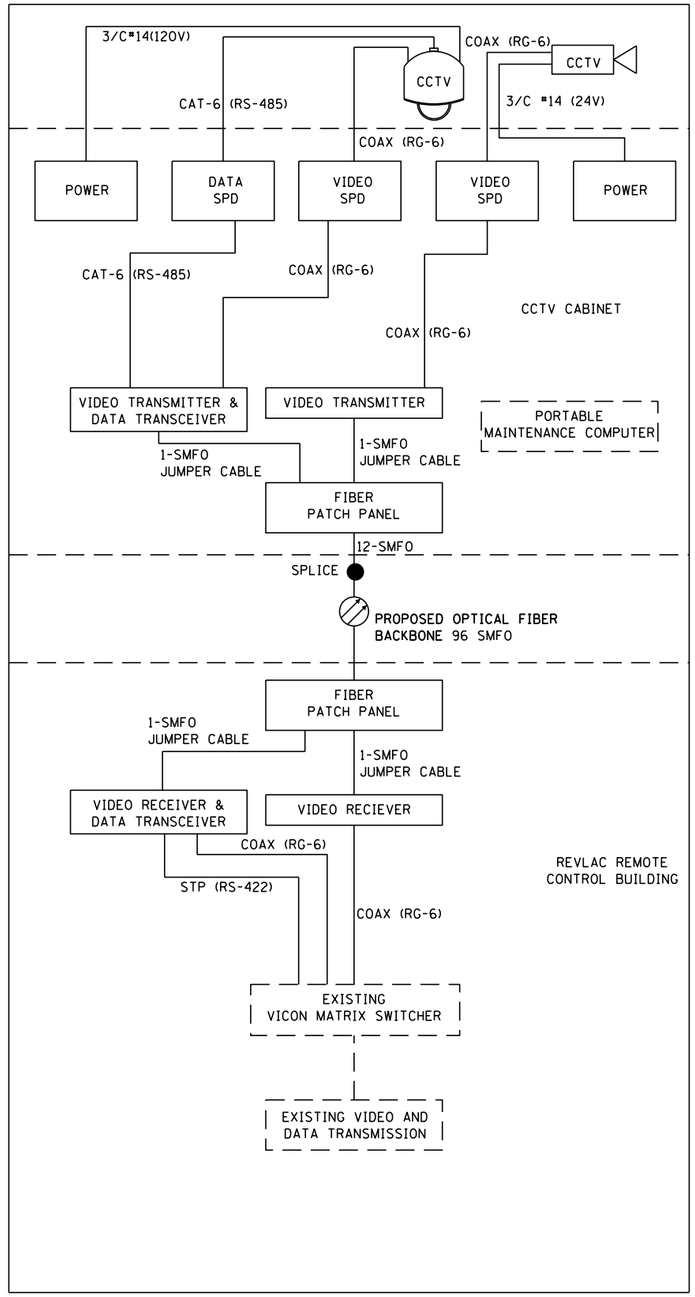
J:\293\Task-2\DGN\CADD Sheets\073_D160T93-sht-details04.dgn

SINGH - ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CCTV CONTROL CABINET DETAILS
	FILE NAME = 073_D160T93-sht-details04	DRAWN - DS/AS	REVISED -		
	PLOT SCALE = 2.000000:1.000000	CHECKED - IY	REVISED -		SCALE: NTS / SHEET OF SHEETS / STA. / TO STA.
	PLOT DATE = 06-MAY-2015 15:08	DATE - 5/6/2015	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	73
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



REVLAC DMS FIXED POSITION CCTV CAMERA



GENERAL PURPOSE PTZ DOME CCTV CAMERA AND FIXED POSITION CCTV CAMERA

LEGEND:

- SINGLE -MODE FIBER OPTIC CABLE
- CCTV — PTZ DOME CCTV CAMERA
- CCTV — FIXED CCTV CAMERA

NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL FIELD EQUIPMENT, CONNECTIONS, CABLING, ETC. THIS SCHEMATIC IS ONLY CONCEPTUAL. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING WIRE AND CABLE ROUTING DURING THE SITE WALKTHROUGHS AND REVIEW OF AVAILIABLE AS-BUILT DRAWINGS AND DOCUMENTING THEM FULLY IN INSTALLATION PLANS AND IN RECORD DRAWINGS.

J:\293\Task-2\DGN\CADD Sheets\074_D160T93-sht-details015.dgn

SINGH - ASSOCIATES, INC. CONSULTING ENGINEERS

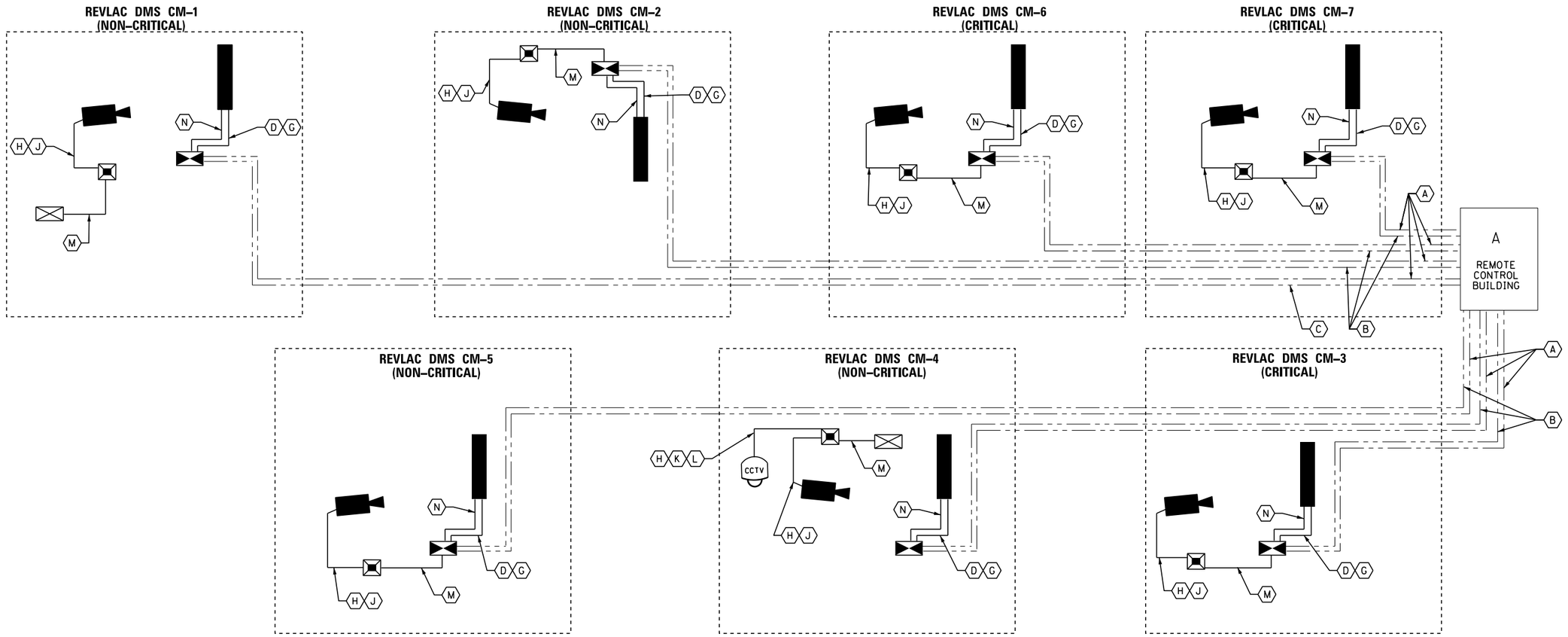
USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 074_D160T93-sht-details015	DRAWN - DS/AS	REVISED -
PLOT SCALE = 2.000000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 06-MAY-2015 15:08	DATE - 5/6/2015	REVISED -

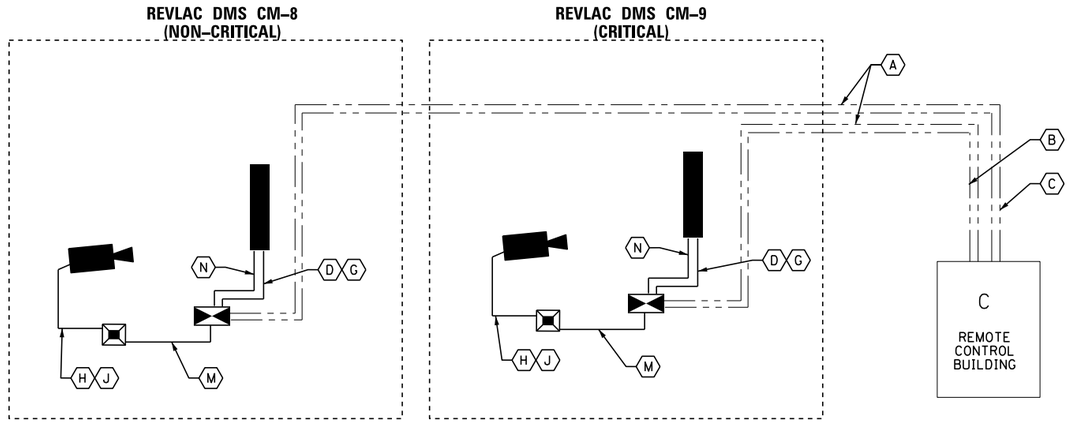
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV CONNECTION LOGIC DIAGRAM

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	74
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			





NOTES:

1. SEE SHEET 11 FOR LEGENDS.

KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12MMF
- (E) FIBER OPTIC CABLE 12 SINGLE MODE (SEE FIBER DISTRIBUTION DIAGRAM)
- (G) DC I/O INTERFECE CABLE, PROVIDED AS PART OF DMS
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) CAT-6 (RS-485) DATA CABLE
- (L) PTZ DOME CCTV CAMERA POWER CONDUCTORS, 3/C#14 (120V)
- (M) CCTV CABINET POWER CONDUCTORS 3-1/C NO.8, 1/C NO.8GND
- (N) DMS POWER CONDUCTORS 3/C#4, 1/C#6GND

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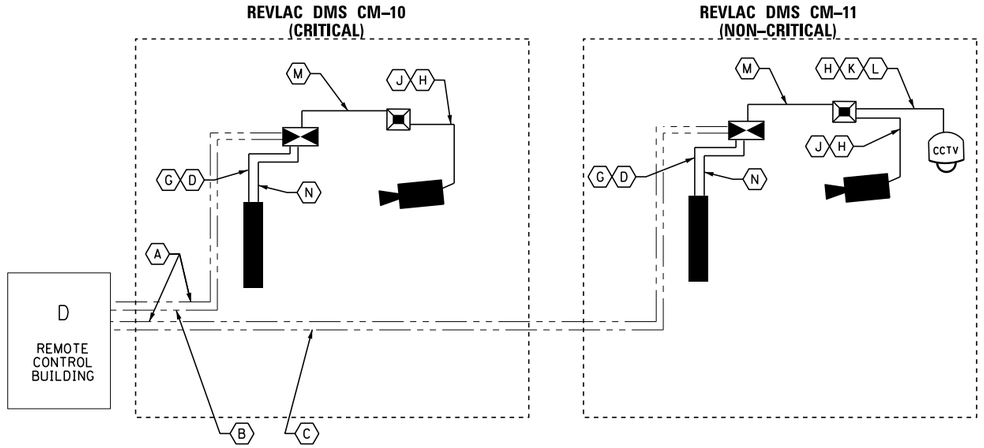
USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -	
FILE NAME = 075_D160T93-sht-details016	DRAWN - DS/AS	REVISED -	
PLOT SCALE = 6.000000:1.000000	CHECKED - IY	REVISED -	
PLOT DATE = 06-MAY-2015 15:08	DATE - 5/6/2015	REVISED -	

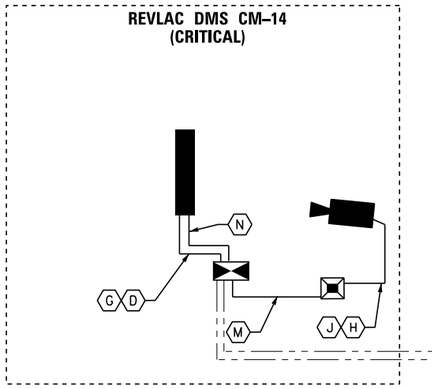
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

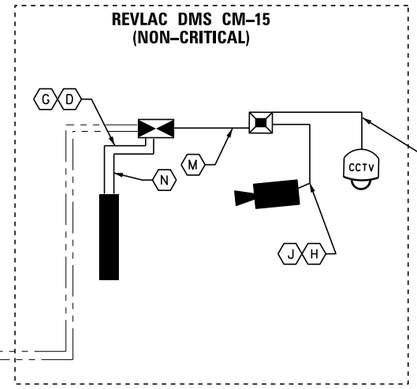
REVLAC DMS POWER AND CONTROL SINGLE LINE DIAGRAM
REMOTE CONTROL BUILDING A & C

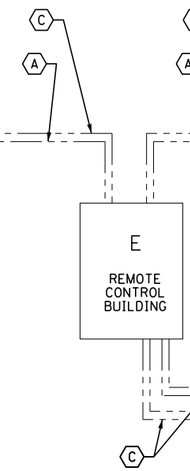
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

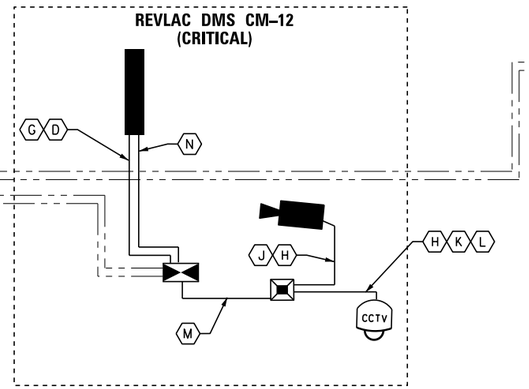
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	75
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

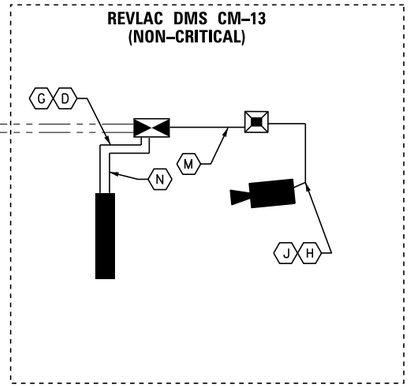












NOTES:

1. SEE SHEET 11 FOR LEGENDS.

KEYED NOTES:

- (A) EXISTING CONTROL CONDUCTORS, 30/C #18 & 1/C#18GND, SHIELDED
- (B) EXISTING POWER CONDUCTORS, 2/C#6 (480V), 1/C#10GND
- (C) EXISTING POWER CONDUCTORS, 2/C#4 (480V), 1/C#10GND
- (D) FIBER OPTIC CABLE, NO. 62.5/125, 12MMF
- (E) FIBER OPTIC CABLE 12 SINGLE MODE (SEE FIBER DISTRIBUTION DIAGRAM)
- (G) DC I/O INTERFECE CABLE, PROVIDED AS PART OF DMS
- (H) COAXIAL CABLE, RG-6
- (J) FIXED CCTV CAMERA POWER CABLE, 3/C#14 (24V)
- (K) CAT-6 (RS-485) DATA CABLE
- (L) PTZ DOME CCTV CAMERA POWER CONDUCTORS, 3/C#14 (120V)
- (M) CCTV CABINET POWER CONDUCTORS 3-1/C NO.8, 1/C NO.8GND
- (N) DMS POWER CONDUCTORS 3/C#4, 1/C#6GND

J:\293\Task 2\DGN\CADD Sheets\076_D160T93-sht-details017.dgn

SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

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FILE NAME = 076_D160T93-sht-details017	DRAWN - DS/AS	REVISED -
PLOT SCALE = 6.000000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 06-MAY-2015 15:08	DATE - 5/6/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REVLAC DMS POWER AND CONTROL SINGLE LINE DIAGRAM
REMOTE CONTROL BUILDING D & E

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	76
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

N.W.B. KENNEDY EXPY

CCTV CABINET FOR FIXED CCTV CAMERA LOOKING AT CM-1

CCTV CABINET FOR FIXED CCTV CAMERA LOOKING AT CM-2

CCTV CABINET FOR FIXED CCTV CAMERA LOOKING AT CM-6

JUMPER CABLE (TYP.)

CCTV CABINET FOR FIXED CCTV CAMERA LOOKING AT CM-7

USED

BLUE	BLUE
ORANGE	ORANGE
GREEN	GREEN
BROWN	BROWN
SLATE	SLATE
WHITE	WHITE
RED	RED
BLACK	BLACK
YELLOW	YELLOW
VIOLET	VIOLET
ROSE	ROSE
AQUA	AQUA

BLUE-TUBE

12 SM FO BREAKOUT CABLE (LENGTH VARIES) (TYP.)

LEGEND

DARK FIBER

LIT FIBER

REMOTE CONTROL BUILDING A

12 SM FO BREAKOUT CABLE TO THE BUILDING

BLUE-TUBE (#1)
ORANGE-TUBE (#2)
GREEN-TUBE (#3)
BROWN-TUBE (#4)
SLATE-TUBE (#5)
WHITE-TUBE (#6)
RED-TUBE (#7)
BLACK-TUBE (#8)

12 SMFO SPLICE JUNCTION BOX ATTACHED TO BUILDING

COIL 100' OF 96 SM FO IN LAST COMMUNICATION VAULT

COMMUNICATION VAULT (FIBER SPLICE LOCATION) (TYP.)

96 SM FO CABLE

96 SM FO

CCTV CABINET FOR FIXED CCTV CAMERA LOOKING AT CM-5

CCTV CABINET FOR FIXED CCTV CAMERA LOOKING AT CM-4 AND PTZ CAMERA

JUMPER CABLE (TYP.)

CCTV CABINET FOR FIXED CCTV CAMERA LOOKING AT CM-3

USED USED

COIL 100' OF 96 SM FO IN LAST COMMUNICATION VAULT

W.B. ONTARIO

J:\293\Task-2\DGN\CADD Sheets\077_D160T93-sht-details018.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -	
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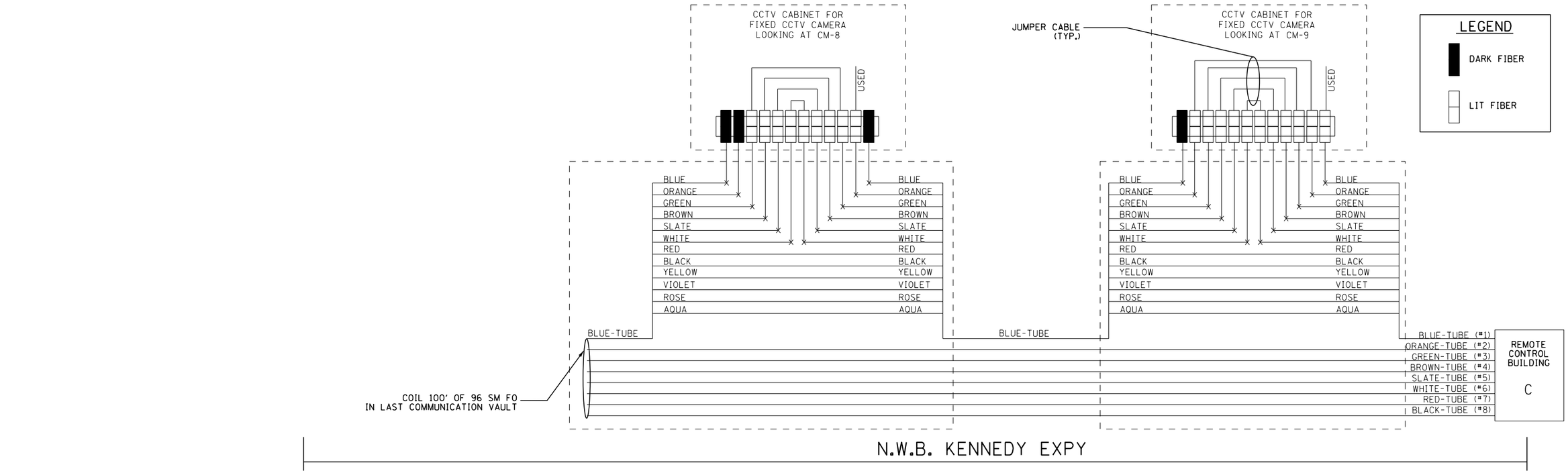
PLOT DATE = 06-MAY-2015 15:08	DATE - 5/6/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC DISTRIBUTION DIAGRAM
REMOTE CONTROL BUILDING A

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	77
		CONTRACT NO. 60T93		
		ILLINOIS FED. AID PROJECT		



J:\293\Task-2\DGN\CADD Sheets\078_D160T93-sht-details019.dgn

SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 078_D160T93-sht-details019	DRAWN - DS/AS	REVISED -
PLOT SCALE = 6.000000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 06-MAY-2015 15:08	DATE - 5/6/2015	REVISED -

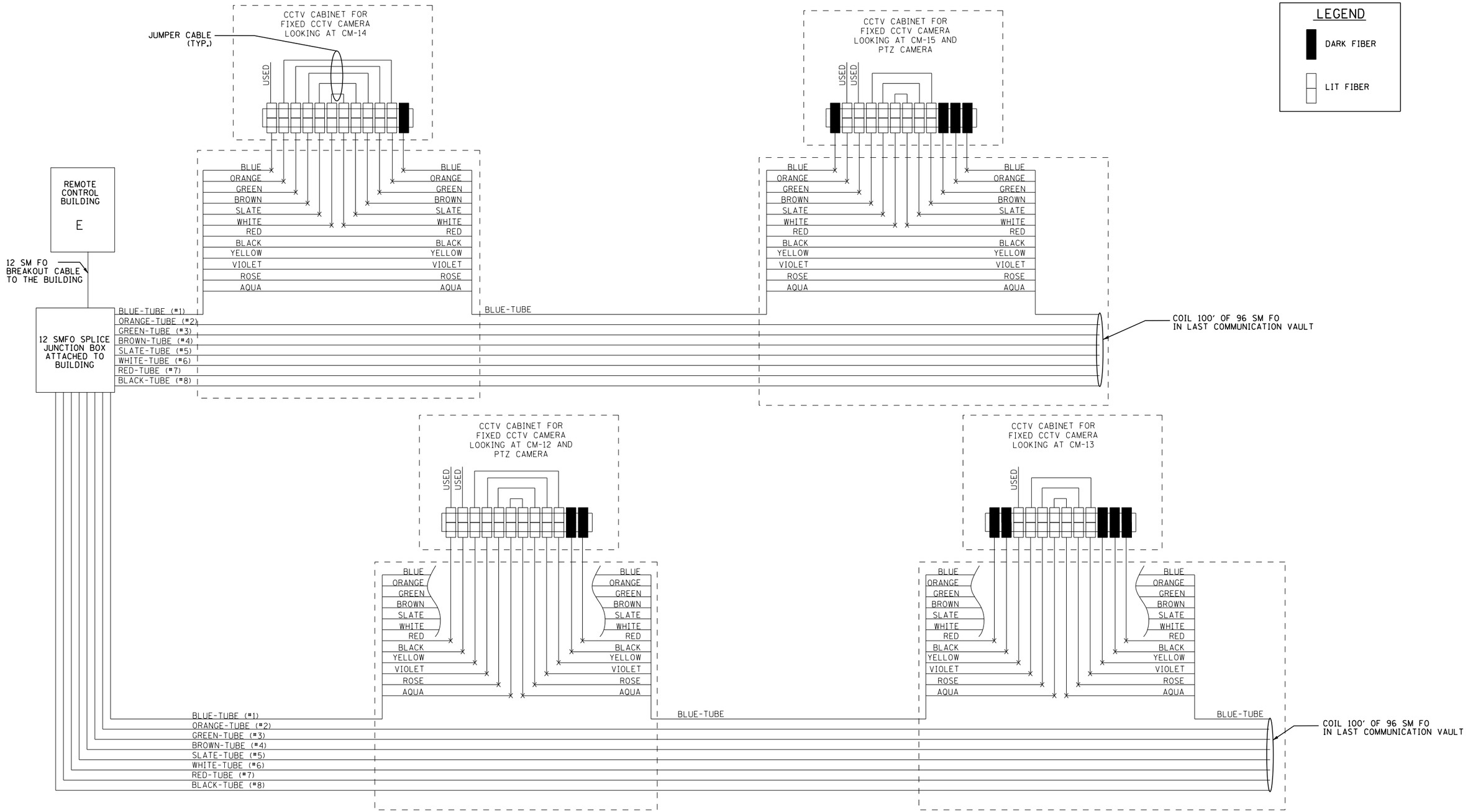
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC DISTRIBUTION DIAGRAM
REMOTE CONTROL BUILDING C & D

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	78
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

S.E.B. KENNEDY EXPY



S.B. EDENS EXPY

J:\293\Task-2\DGN\CADD Sheets\079_D160T93-sht-details020.dgn

SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -	
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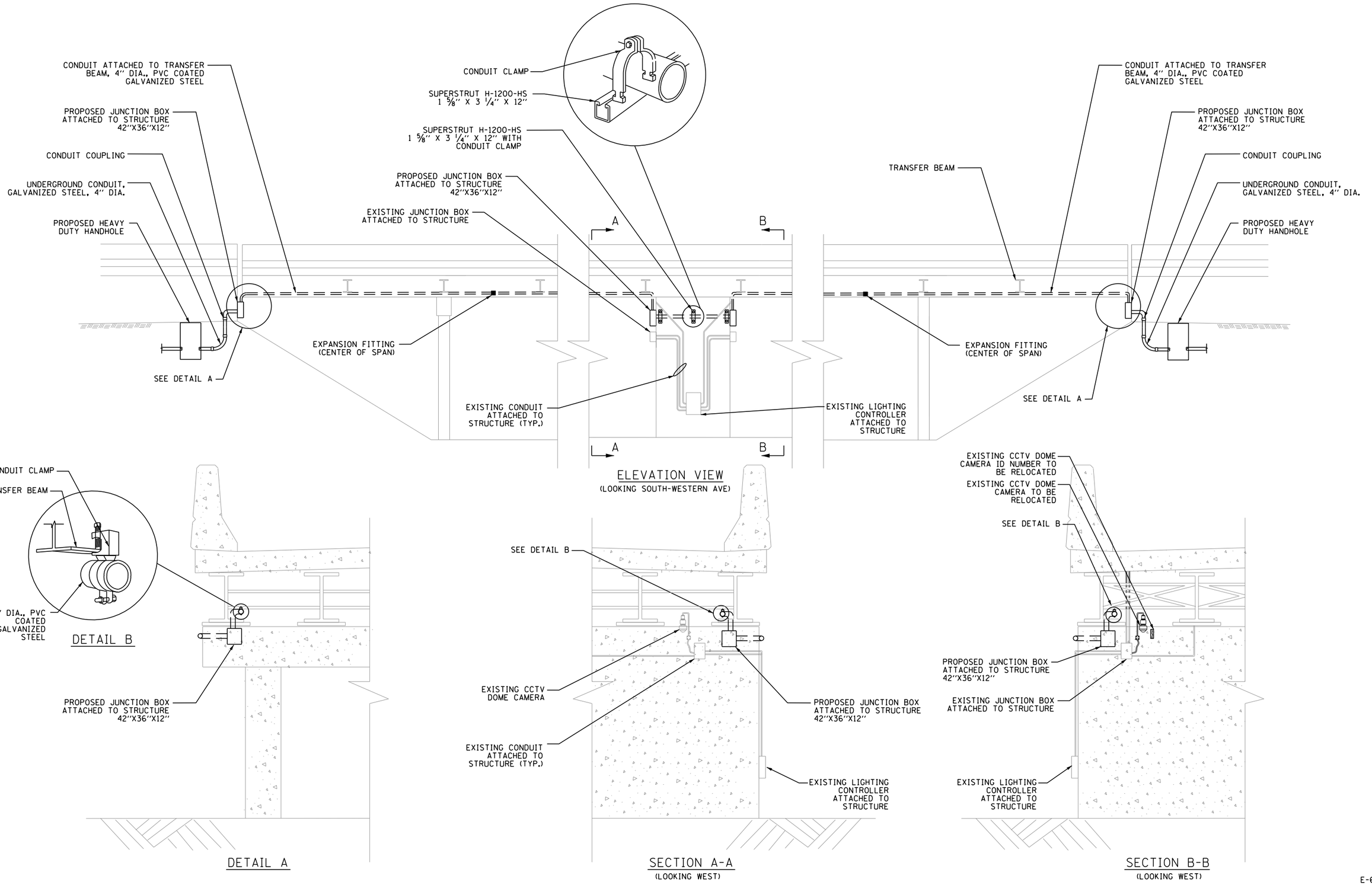
PLOT DATE = 06-MAY-2015 15:08	DATE - 5/6/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC DISTRIBUTION DIAGRAM
REMOTE CONTROL BUILDING E

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	79
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



E-66A

J:\293\Task-2\DGN\CADD Sheets\080_D160T93-sht-details021.dgn

SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

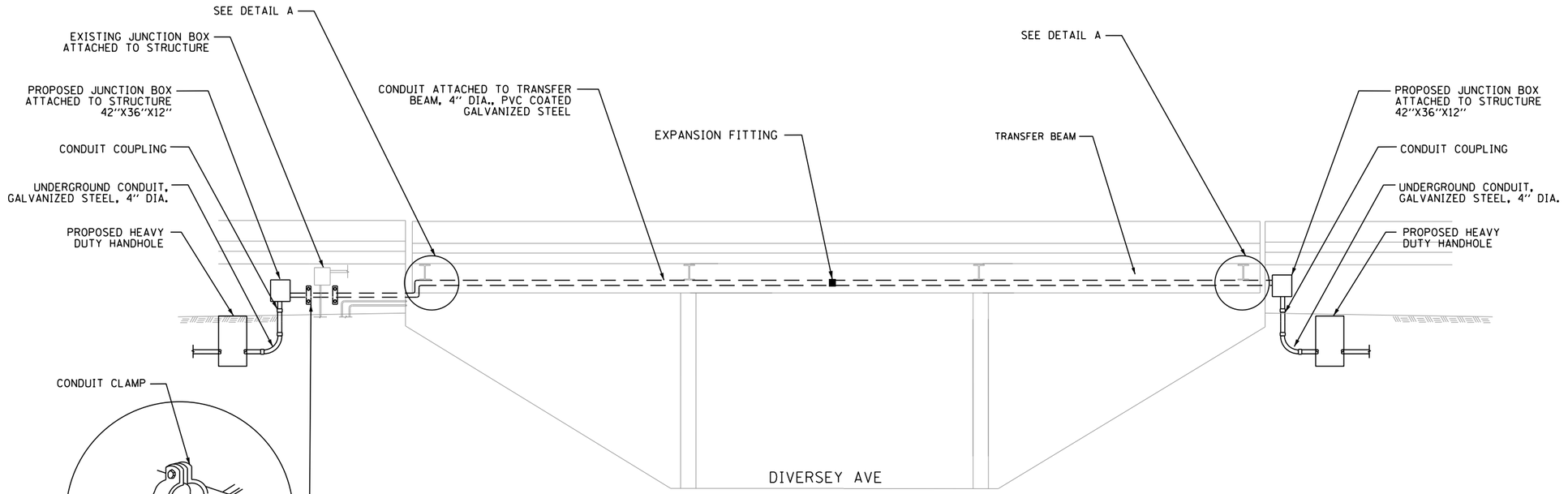
USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 080_D160T93-sht-details021	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:08	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

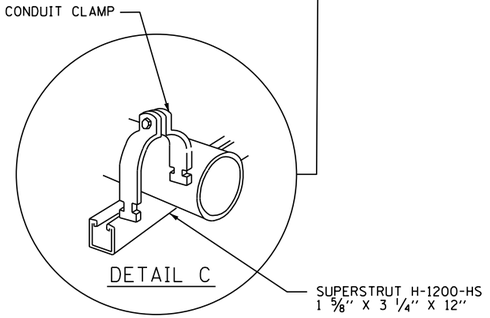
CONDUIT TRANSITION DETAIL

SCALE: 1"=30' | SHEET 3 OF 6 SHEETS | STA. | TO STA.

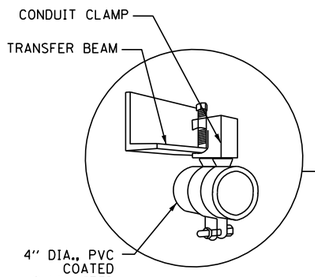
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	80
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



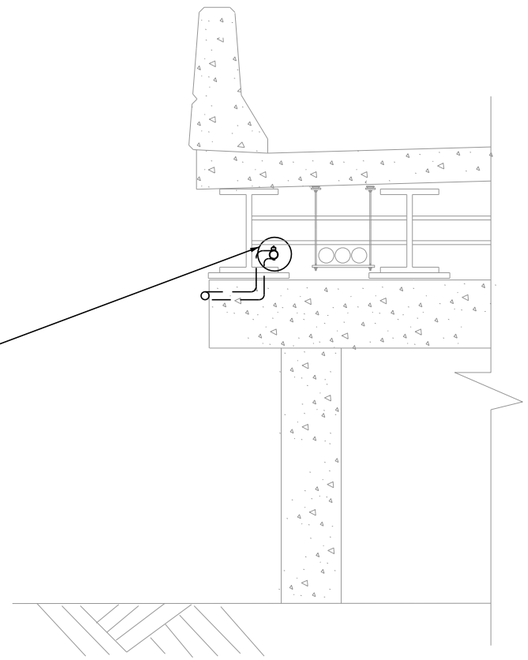
ELEVATION VIEW
(LOOKING WEST-DIVERSEY AVE)



DETAIL C



DETAIL B



DETAIL A

E-66B

J:\293\Task-2\DGN\CADD Sheets\081_D160T93-sht-details022.dgn

SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

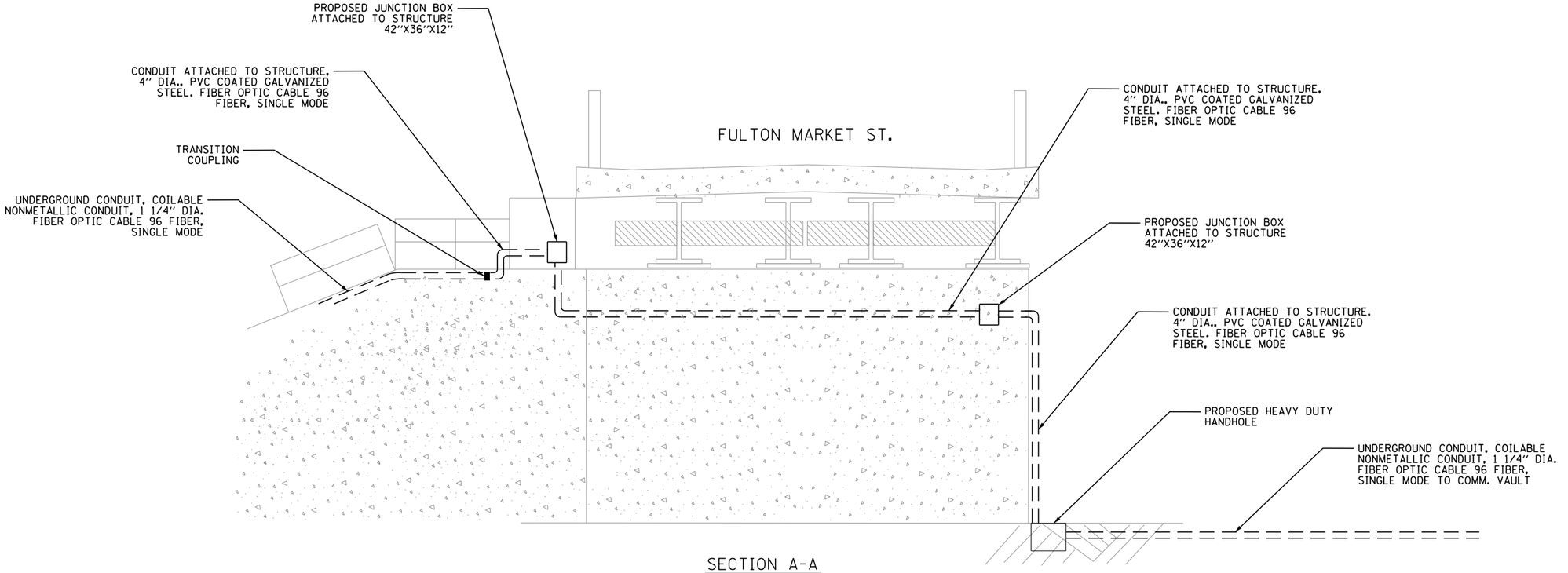
USER NAME = mgarvida	DESIGNED - DJ	REVISED -
FILE NAME = 081_D160T93-sht-details022	DRAWN - DS	REVISED -
PLOT SCALE = 60.000000:1.000000	CHECKED - AG/IY	REVISED -
PLOT DATE = 06-MAY-2015 15:08	DATE - 3/2/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT TRANSITION DETAIL

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	81
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			



SECTION A-A
(LOOKING EAST)

E-66A

J:\293\Task-2\DGN\CADD Sheets\082_D160T93-sht-details023.dgn

SINGH
SINGH - ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - DJ	REVISED -	
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PLOT DATE = 06-MAY-2015 15:08	DATE - 3/2/2015	REVISED -	

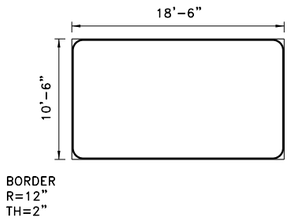
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT TRANSITION DETAIL

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	82
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL
1:100



SIGN NUMBER	CM-1
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: /White

SYMBOL	ROT	X	Y	WID	HT

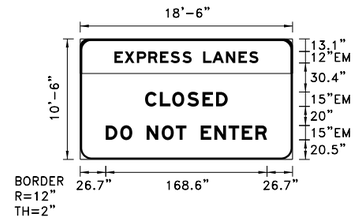
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-1
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

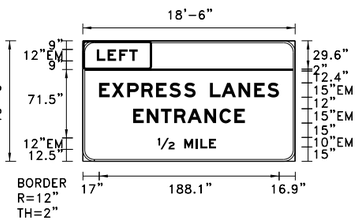
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-1
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

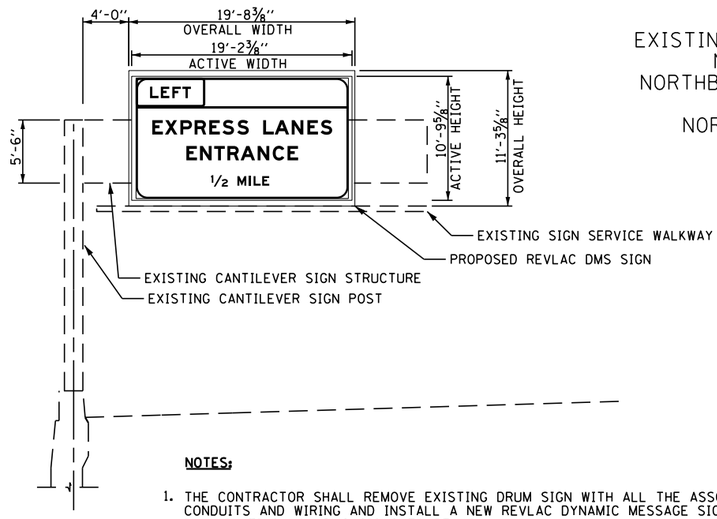
SYMBOL	ROT	X	Y	WID	HT

Dimensions are in Inches,tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
11.1	13	12.2	12.2	11.1	12.2	12.2		11.1	15.1	12.2	11.1	12.2										188.1	15
E	N	T	R	A	N	C	E																EM 2000
11.1	12.2	11.1	12.2	15.1	12.2	12.2	11.1															116.9	15
½	M	I	L	E																			EM 2000
17.6	9.3	2	7.4	7.4																		60.9	12.10

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)



DMS SIGN CM-1
EXISTING CANTILEVER SIGN STRUCTURE
NO. 1C016I094L050.9-000
NORTHBOUND I-90/94 (KENNEDY EXPY.)
STA. 63+45
NORTH OF FULTON MARKET ST.

LOOKING NORTHWEST
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING CANTILEVER SIGN STRUCTURE IS 19'-8⅜" W x 11'-3⅝" H. WITH AN ACTIVE AREA OF 19'-2⅜" W x 10'-9⅝" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\083_D160T93-sht-details024.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -	
FILE NAME = 083_D160T93-sht-details024	DRAWN - DS/AS	REVISED -	
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -	
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -	

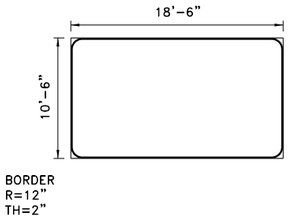
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-1

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	83
		CONTRACT NO. 60T93		
	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL
1:100



SIGN NUMBER	CM-2
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

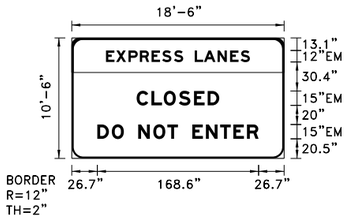
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES/SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-2
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

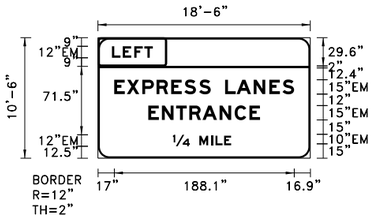
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-2
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

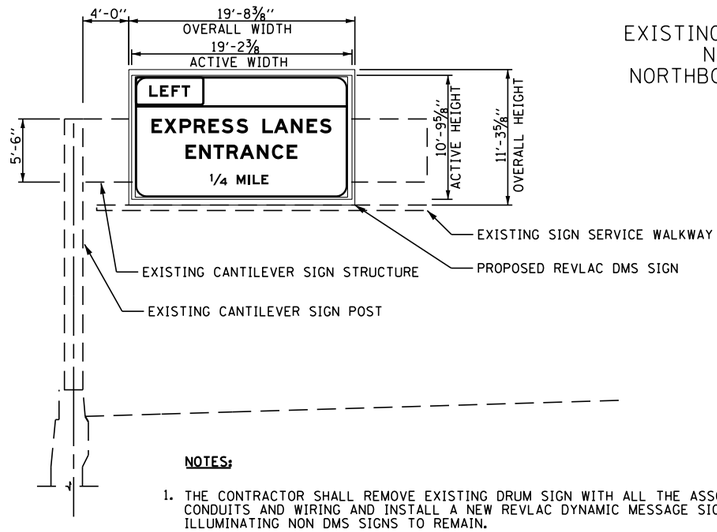
SYMBOL	ROT	X	Y	WID	HT

Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
11.1	13	12.2	12.2	11.1	12.2	12.2		11.1	15.1	12.2	11.1	12.2										188.1	15
E	N	T	R	A	N	C	E																EM 2000
11.1	12.2	11.1	12.2	15.1	12.2	12.2	11.1															116.9	15
¼	M	I	L	E																			EM 2000
17.6	9.3	2	7.4	7.4																		60.9	12.10

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)



DMS SIGN CM-2
EXISTING CANTILEVER SIGN STRUCTURE
NO. 1C016I094L050.7-000
NORTHBOUND I-90/94 (KENNEDY EXPY.)
STA. 73+00
EAST OF GREEN ST.

LOOKING NORTHWEST
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING CANTILEVER SIGN STRUCTURE IS 19'-8⅜" W x 11'-3⅝" H, WITH AN ACTIVE AREA OF 19'-2⅜" W x 10'-9⅝" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\084_D160T93-sht-details025.dgn

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USER NAME	= mgarvida	DESIGNED -	DJ/AG	REVISED	-
FILE NAME	= 084_D160T93-sht-details025	DRAWN -	DS/AS	REVISED	-
PLOT SCALE	= 13.200000:1.000000	CHECKED -	IY	REVISED	-
PLOT DATE	= 07-MAY-2015 14:10	DATE -	5/6/2015	REVISED	-

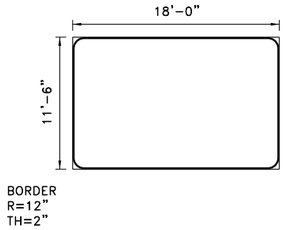
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-2

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	84
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-3
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: /White

SYMBOL	ROT	X	Y	WID	HT

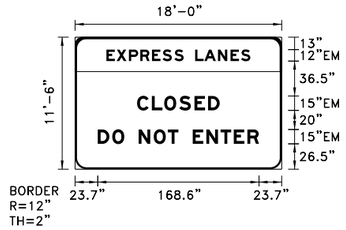
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-3
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

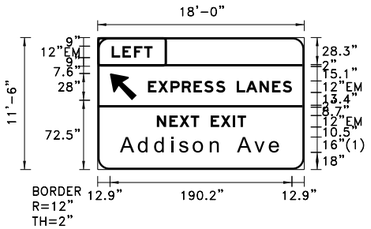
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-3
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

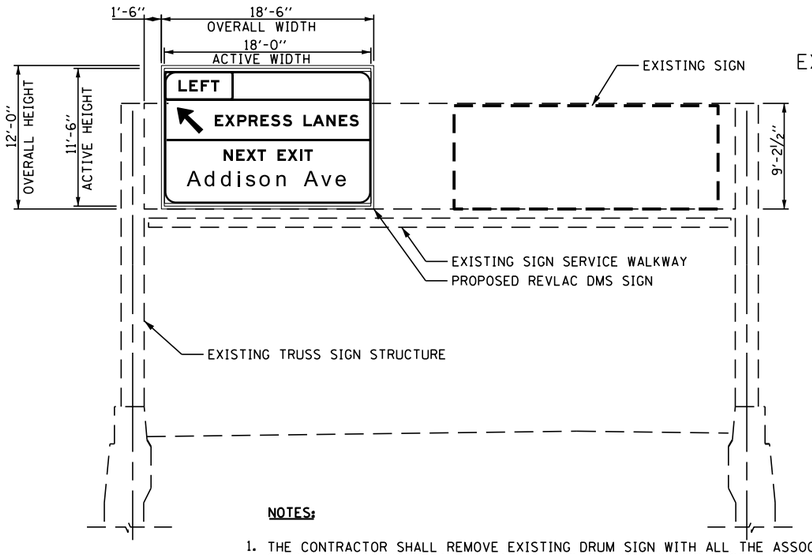
SYMBOL	ROT	X	Y	WID	HT
AR_Type A	45	111,9	173,7	22,3	35,6

Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8,9	8,9	8,9	8,9																			42,7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
N	E	X	T		E	X	I	T															EM 2000
9.7	8.9	10.4	8.9		8.9	10.4	2,4	8,9														93.2	12
A	d	d	i	s	o	n		A	v	e													ClearviewHwy-5-W
15	11.6	11.6	3.7	10.2	12.4	11.1		15	12.2	11.8												167.5	1613

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)



DMS SIGN CM-3
EXISTING TRUSS SIGN STRUCTURE
NO. 1S016I094L000.0-003
WESTBOUND ONTARIO ST.
STA. 510+63
AT EAST OF MILWAUKEE AVE.
LOOKING WEST
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING TRUSS SIGN STRUCTURE IS 18'-6" W x 12'-0" H, WITH AN ACTIVE AREA OF 18'-0" W x 11'-6" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task 2\DGN\C400 Sheets\085_D160T93-sht-details026.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 085_D160T93-sht-details026	DRAWN - DS/AS	REVISED -
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

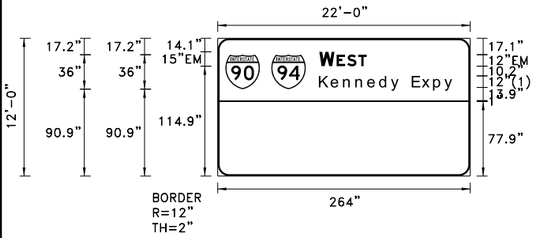
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-3

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	85
		CONTRACT NO. 60T93		
		ILLINOIS FED. AID PROJECT		

SIGN DETAIL
1:100



FONT:
(1) ClearviewHwy-5-W

Dimensions are in inches.tenths

Letter widths are shown

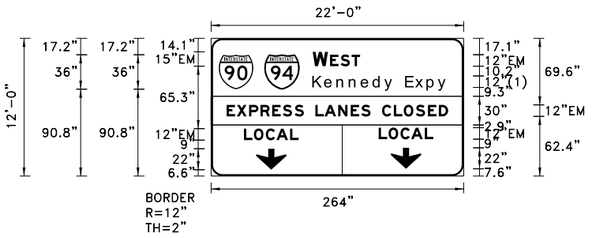
SIGN NUMBER	CM-4
WIDTH x HGHT.	22'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green /Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	8	90.9	36	36
M1_1	0	56	90.9	36	36

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
W	E	S	T																				EM 2000
15.9	8.9	9.7	8.9																			49.5	15,12
K	e	n	n	e	d	y		E	x	p	y												ClearviewHwy-5-W
9.3	8.8	8.3	8.3	8.8	8.7	9.4		7.7	9.3	8.7	9.4											140.1	129.8

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



FONT:
(1) ClearviewHwy-5-W

Dimensions are in inches.tenths

Letter widths are shown

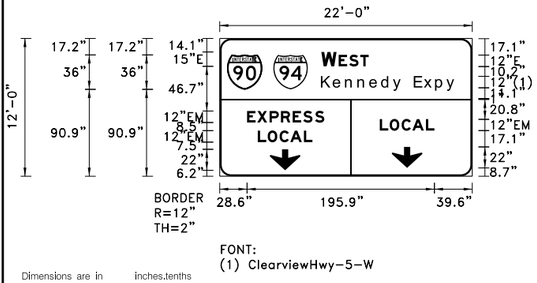
SIGN NUMBER	CM-4
WIDTH x HGHT.	22'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	8	90.8	36	36
M1_1	0	56	90.8	36	36
ARDOWN	0	46.9	6.6	32	22
ARDOWN	0	187.7	7.6	32	22

LETTER POSITIONS (X)																												LENGTH	SERIES-SIZE
W	E	S	T																										EM 2000
15.9	8.9	9.7	8.9																									49.5	15,12
K	e	n	n	e	d	y		E	x	p	y																		ClearviewHwy-5-W
9.3	8.8	8.3	8.3	8.8	8.7	9.4		7.7	9.3	8.7	9.4																	140.1	129.8
E	X	P	R	E	S	S		L	A	N	E	S		C	L	O	S	E	D										EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7		9.7	8.9	10.1	9.7	8.9	9.7									231.6	12
L	O	C	A	L																									EM 2000
8.9	10.1	9.7	12.1	8.9																								57.1	12
L	O	C	A	L																									EM 2000
8.9	10.1	9.7	12.1	8.9																								57.1	12

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



FONT:
(1) ClearviewHwy-5-W

Dimensions are in inches.tenths

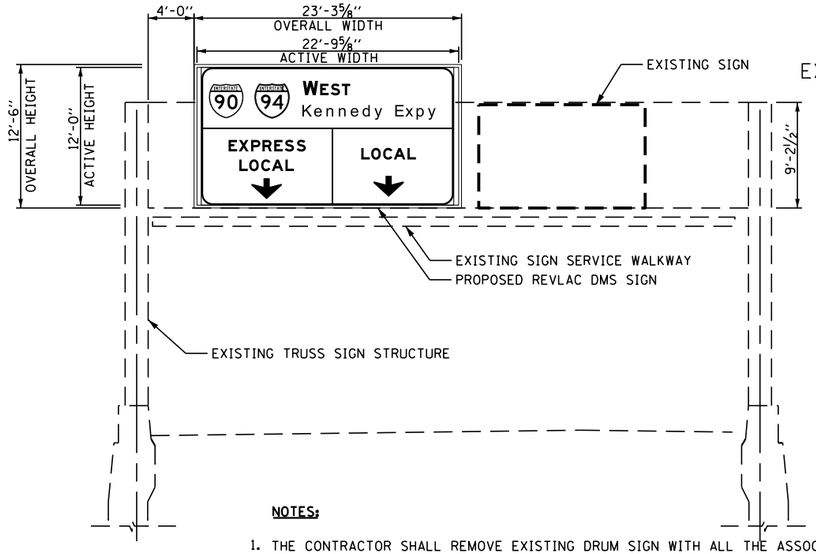
Letter widths are shown

SIGN NUMBER	CM-4
WIDTH x HGHT.	22'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green /Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	174.3	192.1	36	36
M1_1	0	222.3	192.1	36	36
ARDOWN	0	346.2	110	32	22
ARDOWN	0	218.6	107.5	32	22

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
W	E	S	T																				EM 2000
15.9	8.9	9.7	8.9																			49.5	15,12
K	e	n	n	e	d	y		E	x	p	y												ClearviewHwy-5-W
9.3	8.8	8.3	8.3	8.8	8.7	9.4		7.7	9.3	8.7	9.4											140.1	129.8
E	X	P	R	E	S	S																	EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7																80.8	12
L	O	C	A	L																			EM 2000
8.9	10.1	9.7	12.1	8.9																		57.1	12
L	O	C	A	L																			EM 2000
8.9	10.1	9.7	12.1	8.9																		57.1	12

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)



DMS SIGN CM-4
EXISTING TRUSS SIGN STRUCTURE
NO. 1S016I094L000.0-002
WESTBOUND ONTARIO ST.
STA. 518+19
AT EAST OF HALSTED ST.
LOOKING WEST
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING TRUSS SIGN STRUCTURE IS 23'-3⅝" W x 12'-6" H, WITH AN ACTIVE AREA OF 22'-9⅝" W x 12'-0" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\086_DI60T93-sht-details027.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -	
FILE NAME = 086_DI60T93-sht-details027	DRAWN - DS/AS	REVISED -	
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -	
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

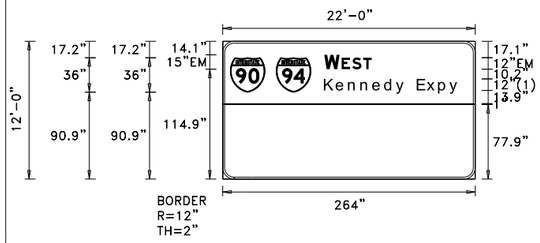
DMS SIGN LEGENDS CM-4

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	86
		CONTRACT NO. 60T93		
		ILLINOIS FED. AID PROJECT		

SIGN DETAIL

1:100



FONT:
(1) ClearviewHwy-5-W

Dimensions are in inches.tenths

Letter widths are shown

SIGN NUMBER	CM-5
WIDTH x HGHT.	22'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green /Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	8	90.9	36	36
M1_1	0	56	90.9	36	36

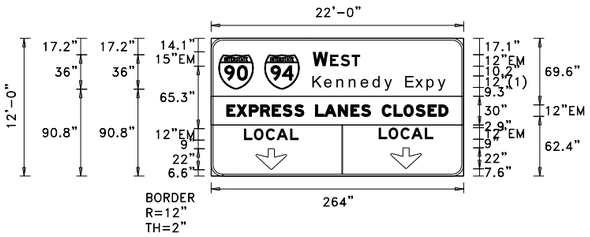
LETTER POSITIONS (X)

W	E	S	T																		LENGTH	SERIES-SIZE
15.9	8.9	9.7	8.9																		49.5	EM 2000 15,12
K	e	n	n	e	d	y		E	x	p	y											ClearviewHwy-5-W
9.3	8.8	8.3	8.3	8.8	8.7	9.4		7.7	9.3	8.7	9.4										140.1	129.8

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL

1:100



FONT:
(1) ClearviewHwy-5-W

Dimensions are in inches.tenths

Letter widths are shown

SIGN NUMBER	CM-5
WIDTH x HGHT.	22'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	226.1	192.1	36	36
M1_1	0	274.1	192.1	36	36
ARDOWN	0	265	107.9	32	22
ARDOWN	0	405.8	108.8	32	22

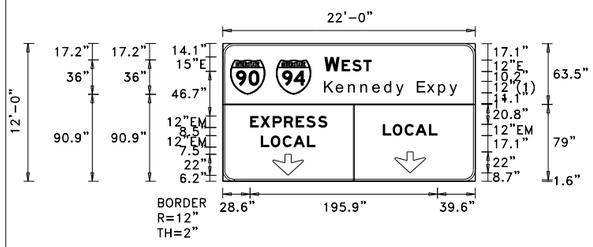
LETTER POSITIONS (X)

W	E	S	T																		LENGTH	SERIES-SIZE
15.9	8.9	9.7	8.9																		49.5	EM 2000 15,12
K	e	n	n	e	d	y		E	x	p	y											ClearviewHwy-5-W
9.3	8.8	8.3	8.3	8.8	8.7	9.4		7.7	9.3	8.7	9.4										140.1	129.8
E	X	P	R	E	S	S		L	A	N	E	S		C	L	O	S	E	D			EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7		9.7	8.9	10.1	9.7	8.9	9.7		231.6	12
L	O	C	A	L																		EM 2000
8.9	10.1	9.7	12.1	8.9																	57.1	12
L	O	C	A	L																		EM 2000
8.9	10.1	9.7	12.1	8.9																	57.1	12

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL

1:100



FONT:
(1) ClearviewHwy-5-W

Dimensions are in inches.tenths

Letter widths are shown

SIGN NUMBER	CM-5
WIDTH x HGHT.	22'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green /Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	234.2	192.1	36	36
M1_1	0	282.2	192.1	36	36
ARDOWN	0	406.1	110	32	22
ARDOWN	0	278.5	107.5	32	22

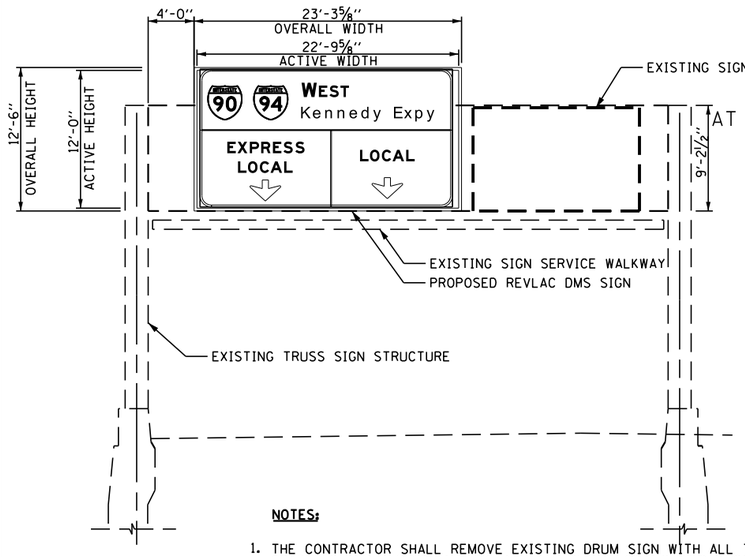
LETTER POSITIONS (X)

W	E	S	T																		LENGTH	SERIES-SIZE
15.9	8.9	9.7	8.9																		49.5	EM 2000 15,12
K	e	n	n	e	d	y		E	x	p	y											ClearviewHwy-5-W
9.3	8.8	8.3	8.3	8.8	8.7	9.4		7.7	9.3	8.7	9.4										140.1	129.8
E	X	P	R	E	S	S																EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7															80.8	12
L	O	C	A	L																		EM 2000
8.9	10.1	9.7	12.1	8.9																	57.1	12
L	O	C	A	L																		EM 2000
8.9	10.1	9.7	12.1	8.9																	57.1	12

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)

DMS SIGN CM-5
EXISTING TRUSS SIGN STRUCTURE
NO. 1S016I094L000.0-011
WESTBOUND ONTARIO ST.
STA. 526+40
AT NORTH BRANCH OF THE CHICAGO RIVER

LOOKING WEST
NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING TRUSS SIGN STRUCTURE IS 23'-3⅜" W x 12'-6" H, WITH AN ACTIVE AREA OF 22'-9⅝" W x 12'-0" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\087_D160T93-sht-details028.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 087_D160T93-sht-details028	DRAWN - DS/AS	REVISED -
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

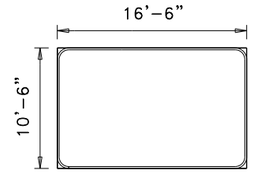
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-5

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	87
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-6
WIDTH x HGHT.	16'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

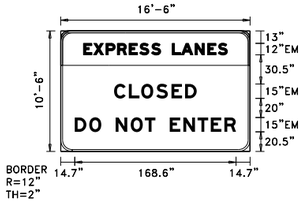
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-6
WIDTH x HGHT.	16'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

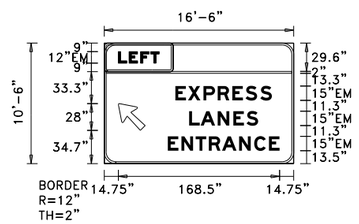
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-6
WIDTH x HGHT.	16'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	45	113.7	97.7	22.3	35.6

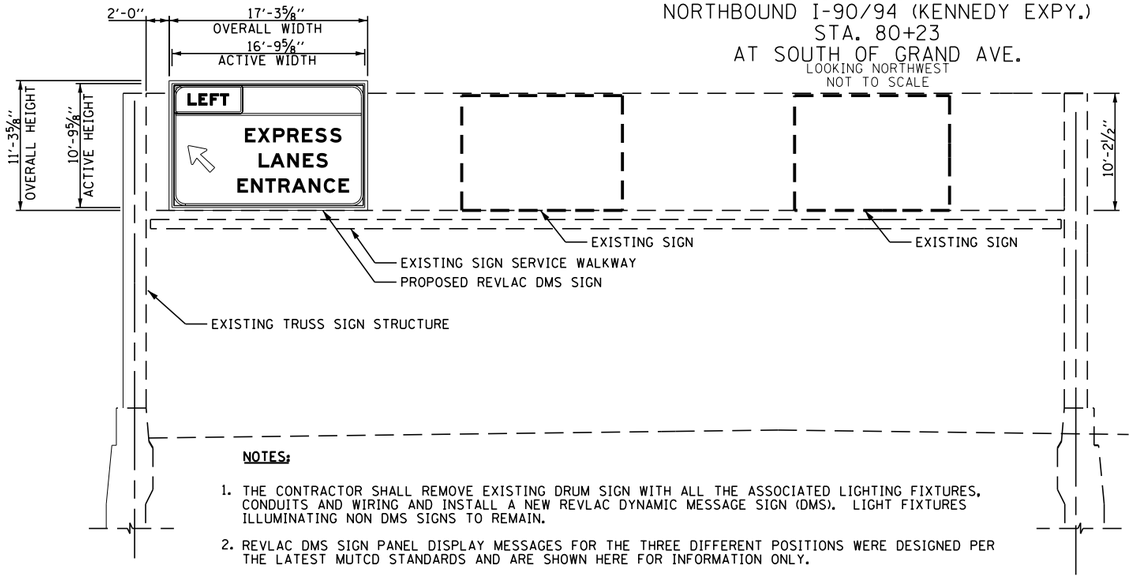
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)								LENGTH	SERIES-SIZE
L	E	F	T						EM 2000
8.9	8.9	8.9	8.9					42.7	12
E	X	P	R	E	S	S			EM 2000
11.1	13	12.2	12.2	11.1	12.2	12.2		101	15
L	A	N	E	S					EM 2000
11.1	15.1	12.2	11.1	12.2				72.2	15
E	N	T	R	A	N	C	E		EM 2000
11.1	12.2	11.1	12.2	15.1	12.2	12.2	11.1	116.9	15

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)

DMS SIGN CM-6
EXISTING TRUSS SIGN STRUCTURE
NO. 1S016I094L050.5-000
NORTHBOUND I-90/94 (KENNEDY EXPY.)
STA. 80+23
AT SOUTH OF GRAND AVE.
LOOKING NORTHWEST
NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING TRUSS SIGN STRUCTURE IS 17'-3⅜" W x 11'-3⅜" H, WITH AN ACTIVE AREA OF 16'-9⅝" W x 10'-9⅝" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\088_D160T93-sht-details029.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 088_D160T93-sht-details029	DRAWN - DS/AS	REVISED -
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

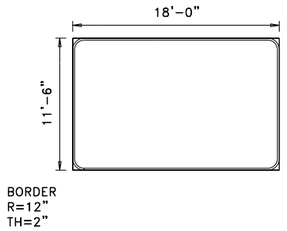
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-6

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	88
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-7
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

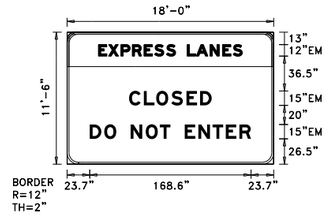
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-7
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

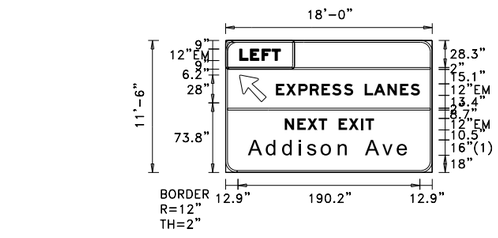
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-7
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	45	113.5	175.1	22.3	35.6

Dimensions are in inches.tenths

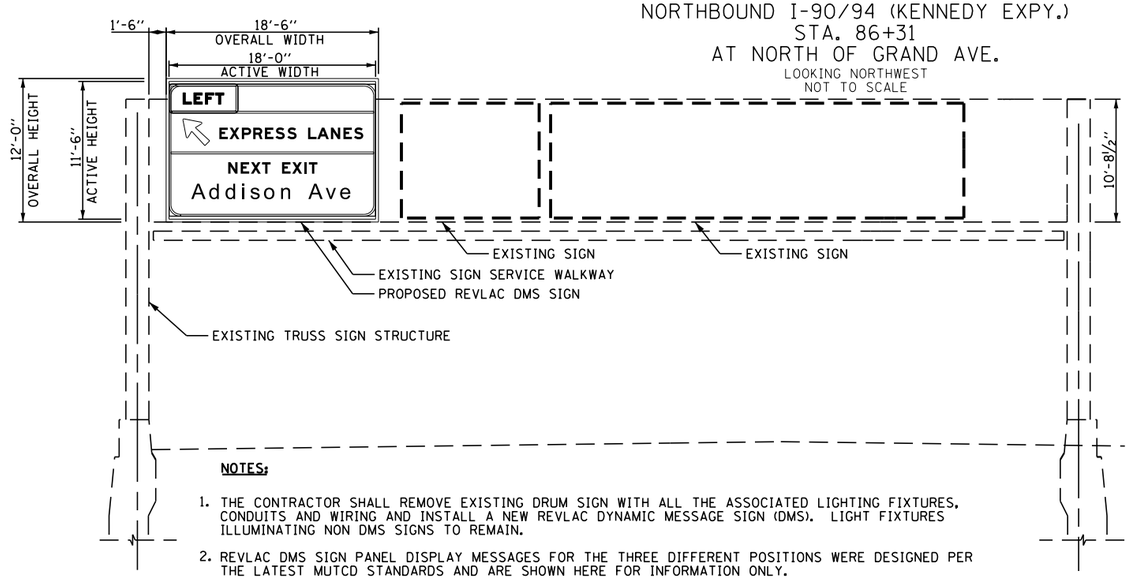
Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
N	E	X	T		E	X	I	T															EM 2000
9.7	8.9	10.4	8.9		8.9	10.4	2.4	8.9														93.2	12
A	d	d	I	s	o	n		A	v	e													ClearviewHwy-5-W
15	11.6	11.6	3.7	10.2	12.4	11.1		15	12.2	11.8												167.5	16\13

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)

DMS SIGN CM-7
EXISTING TRUSS SIGN STRUCTURE
NO. 1S016I094L049.7-000
NORTHBOUND I-90/94 (KENNEDY EXPY.)
STA. 86+31
AT NORTH OF GRAND AVE.

LOOKING NORTHWEST
NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING TRUSS SIGN STRUCTURE IS 18'-6" W x 12'-0" H, WITH AN ACTIVE AREA OF 18'-0" W x 11'-6" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\089_D160T93-sht-details030.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 089_D160T93-sht-details030	DRAWN - DS/AS	REVISED -
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

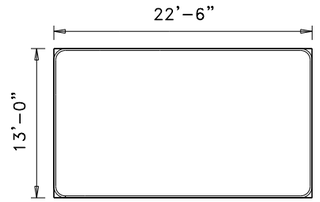
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-7

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	89
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-8
WIDTH x HGHT.	22'-6" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

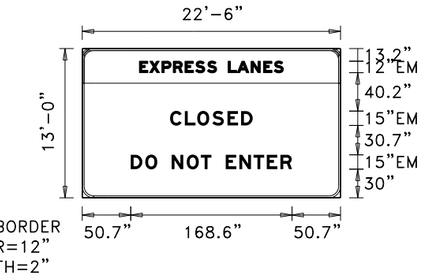
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-8
WIDTH x HGHT.	22'-6" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

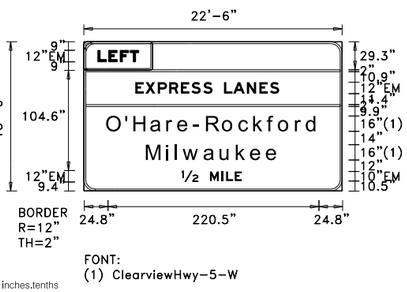
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



FONT:
(1) ClearviewHwy-5-W

SIGN NUMBER	CM-8
WIDTH x HGHT.	22'-6" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

SYMBOL	ROT	X	Y	WID	HT

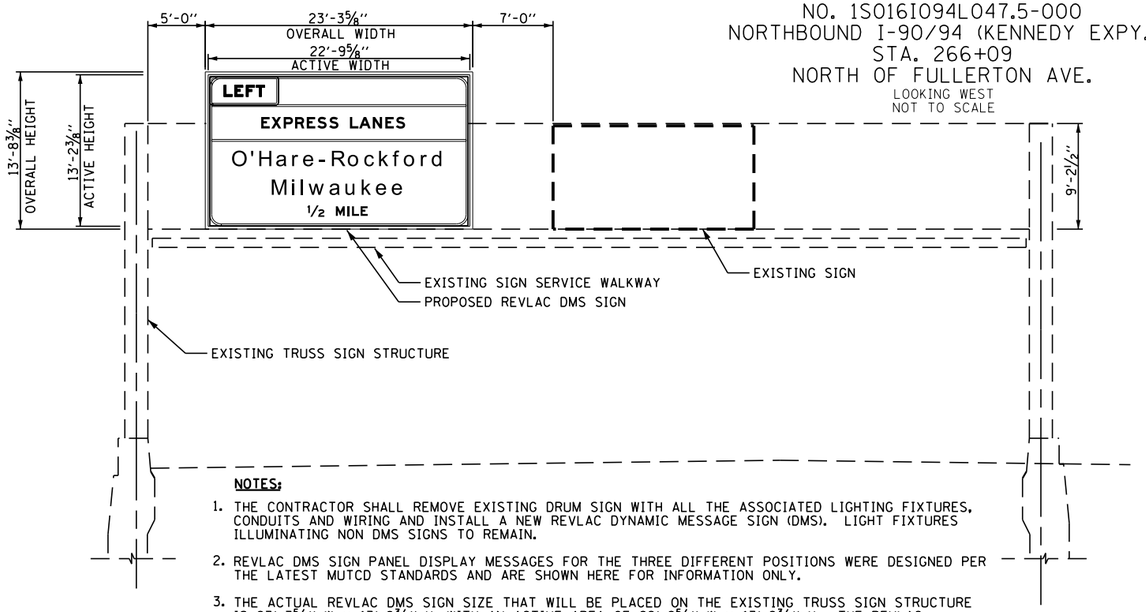
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										162.5	12
O	'	H	a	r	e	–	R	o	c	k	f	o	r	d									ClearviewHwy-5-W
14.9	3.3	12.3	11.9	7.4	11.8	6.3	12	12.4	10.9	11.3	7.7	12.4	7.4	11.6								220.5	1613
M	I	I	w	a	u	k	e	e															ClearviewHwy-5-W
14.7	3.7	5.1	18.5	11.9	10.9	11.3	11.8	11.8														137.3	1613
½	M	I	L	E																			EM 2000
17.6	9.3	2	7.4	7.4																		62.9	12.10

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)

DMS SIGN CM-8
EXISTING TRUSS SIGN STRUCTURE
NO. 1S016I094L047.5-000
NORTHBOUND I-90/94 (KENNEDY EXPY.)
STA. 266+09
NORTH OF FULLERTON AVE.
LOOKING WEST
NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING TRUSS SIGN STRUCTURE IS 23'-3⅝" W x 13'-8⅜" H, WITH AN ACTIVE AREA OF 22'-9⅝" W x 13'-2⅜" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\090_D160T93-sht-details03l.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 090_D160T93-sht-details03l	DRAWN - DS/AS	REVISED -
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

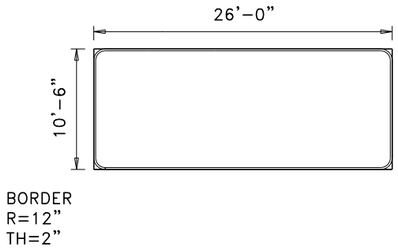
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-8

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	90
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-9
WIDTH x HGHT.	26'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

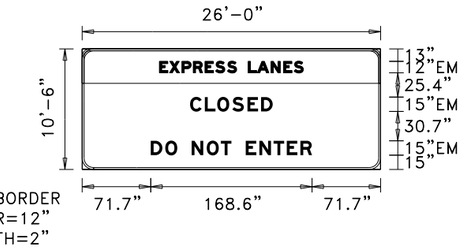
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-9
WIDTH x HGHT.	26'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

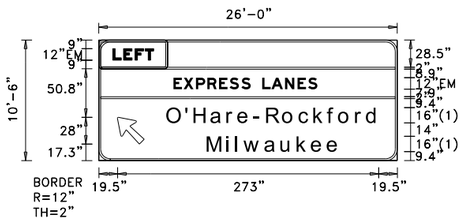
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



FONT:
(1) ClearviewHwy-5-W

SIGN NUMBER	CM-9
WIDTH x HGHT.	26'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	45	118.5	118.5	22.3	35.6

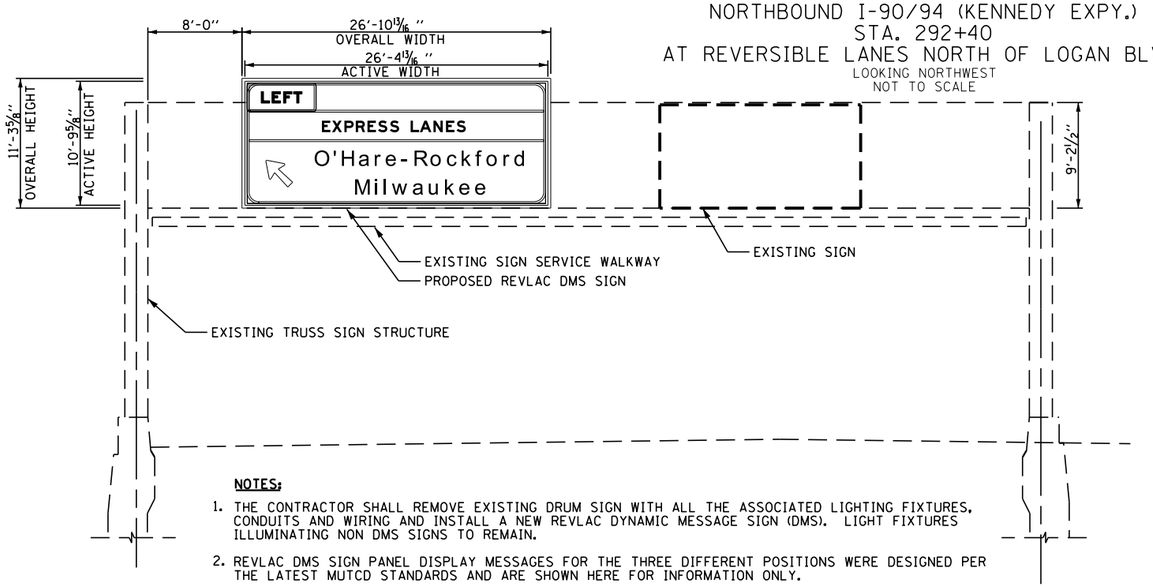
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										162.5	12
O	'	H	a	r	e	–	R	o	c	k	f	o	r	d									ClearviewHwy-5-W
14.9	3.3	12.3	11.9	7.4	11.8	6.3	12	12.4	10.9	11.3	7.7	12.4	7.4	11.6								220.5	1613
M	I	I	w	a	u	k	e	e															ClearviewHwy-5-W
14.7	3.7	5.1	18.5	11.9	10.9	11.3	11.8	11.8														137.3	1613

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)

DMS SIGN CM-9
EXISTING TRUSS SIGN STRUCTURE
NO. 1S016I094L047.0-000
NORTHBOUND I-90/94 (KENNEDY EXPY.)
STA. 292+40
AT REVERSIBLE LANES NORTH OF LOGAN BLVD.
LOOKING NORTHWEST
NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING TRUSS SIGN STRUCTURE IS 26'-10 13/16" W x 11'-3 5/8" H, WITH AN ACTIVE AREA OF 26'-4 13/16" W x 10'-9 5/8" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\09L_D160T93-sht-details032.dgn

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FILE NAME = 09L_D160T93-sht-details032	DRAWN - DS/AS	REVISED -
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

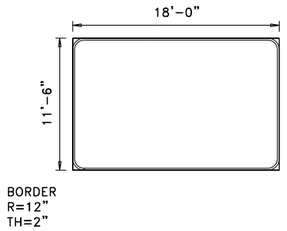
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-9

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	91
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-10
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: /White

SYMBOL	ROT	X	Y	WID	HT

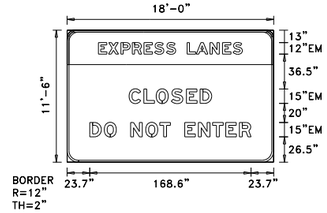
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-10
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

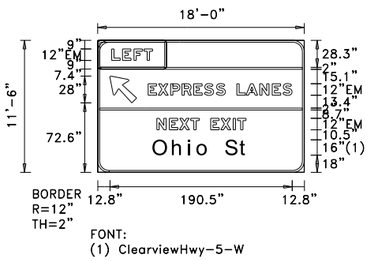
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-10
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	45	111.8	162	22.3	35.6

Dimensions are in inches.tenths

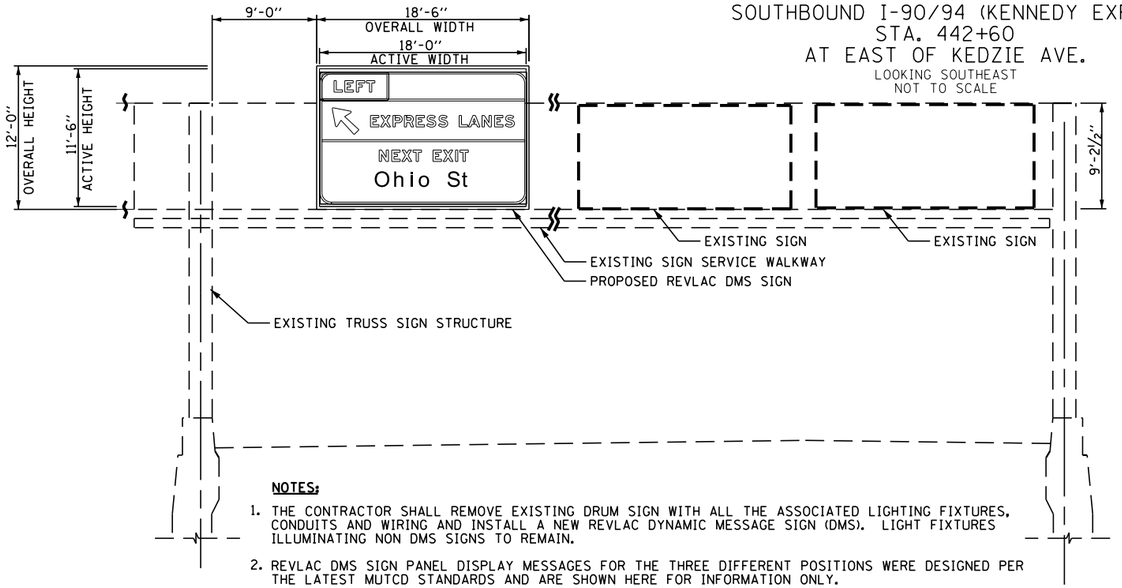
Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
N	E	X	T		E	X	I	T															EM 2000
9.7	8.9	10.4	8.9		8.9	10.4	2.4	8.9														93.2	12
O	h	I	o		S	t																	ClearviewHwy-5-W
14.9	11.1	3.7	12.4		11.6	7.9																98.6	16/13

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)

DMS SIGN CM-10
EXISTING TRUSS SIGN STRUCTURE
1S016I094R046.1-000
SOUTHBOUND I-90/94 (KENNEDY EXPY.)
STA. 442+60
AT EAST OF KEDZIE AVE.

LOOKING SOUTHEAST
NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING TRUSS SIGN STRUCTURE IS 18'-6" W x 12'-0" H, WITH AN ACTIVE AREA OF 18'-0" W x 11'-6" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\092_D160T93-sht-details033.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
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PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

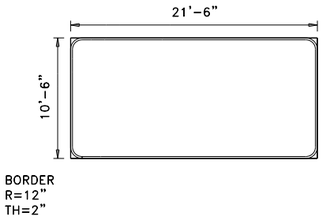
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-10

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	92
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-11
WIDTH x HGHT.	21'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

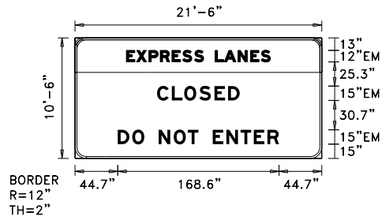
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-11
WIDTH x HGHT.	21'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

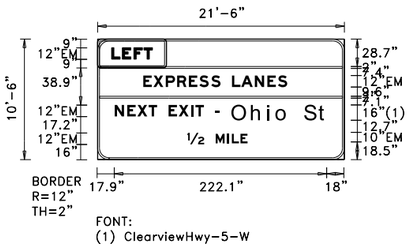
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-11
WIDTH x HGHT.	21'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

SYMBOL	ROT	X	Y	WID	HT
	0	105.4	144	47.1	18

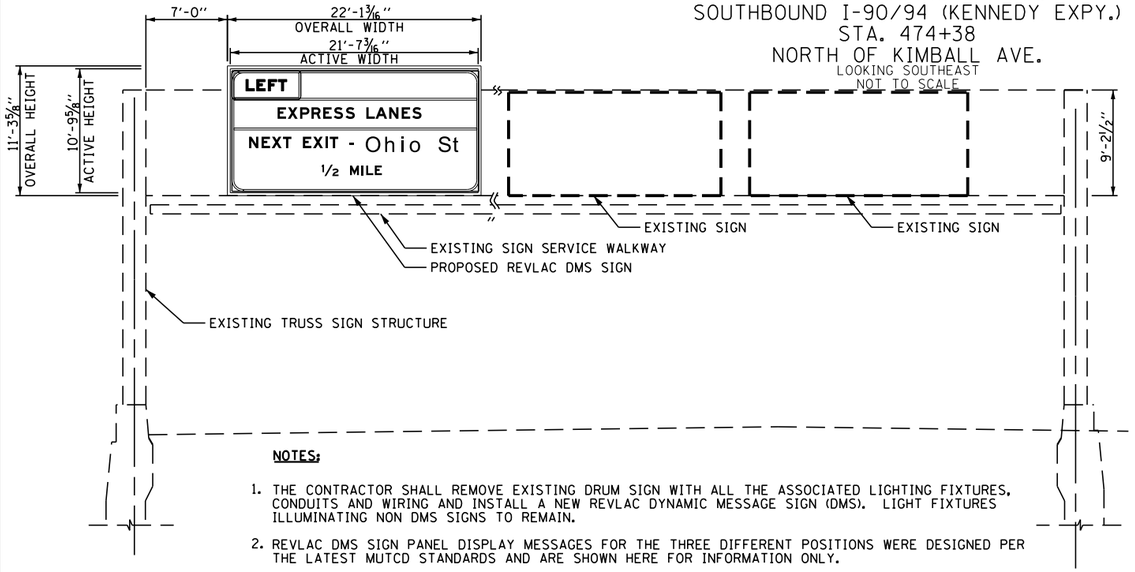
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										162.5	12
N	E	X	T		E	X	I	T		–													EM 2000
9.7	8.9	10.4	8.9		8.9	10.4	2.4	8.9		4.2												109.4	12
O	h	I	o		S	t																	ClearviewHwy-5-W
14.9	11.1	3.7	12.4		11.6	7.9																98.6	1613
½	M	I	L	E																			EM 2000
17.6	9.3	2	7.4	7.4																		62.9	12.10

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)

DMS SIGN CM-11
EXISTING TRUSS SIGN STRUCTURE
NO. 1S016I094R045.4-000
SOUTHBOUND I-90/94 (KENNEDY EXPY.)
STA. 474+38
NORTH OF KIMBALL AVE.
LOOKING SOUTHEAST
NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING TRUSS SIGN STRUCTURE IS 22'-1 3/16" W x 11'-3 5/8" H, WITH AN ACTIVE AREA OF 21'-7 3/16" W x 10'-9 5/8" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\093_D160T93-sht-details034.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 093_D160T93-sht-details034	DRAWN - DS/AS	REVISED -
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

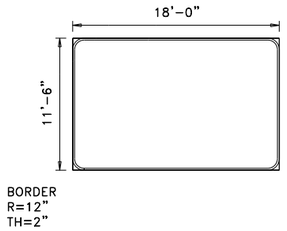
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-11

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	93
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-12
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: /White

SYMBOL	ROT	X	Y	WID	HT

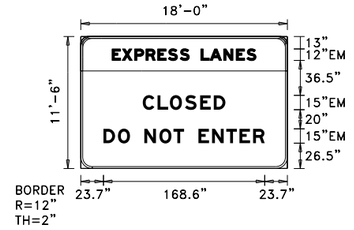
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-12
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

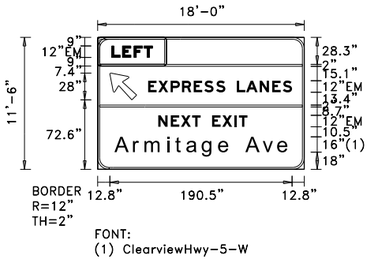
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



FONT:
(1) ClearviewHwy-5-W

SIGN NUMBER	CM-12
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Yellow
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

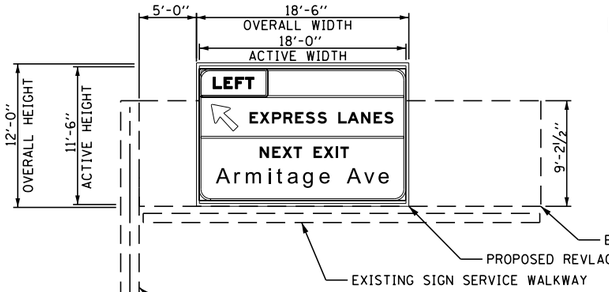
SYMBOL	ROT	X	Y	WID	HT
AR_Type A	45	12.8	72.6	22.3	35.6

Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
N	E	X	T		E	X	I	T															EM 2000
9.7	8.9	10.4	8.9		8.9	10.4	2.4	8.9														93.2	12
A	r	m	l	t	a	g	e		A	v	e												ClearviewHwy-5-W
15	7.4	18.1	3.7	7.9	11.9	11.7	11.8		15	12.2	11.8											182	16:13

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)



DMS SIGN CM-12
EXISTING CANTILEVER SIGN STRUCTURE
NO. 1C016I094R043.1-000
SOUTHBOUND I-94 (EDENS EXPY.)
STA. 425+00
AT NORTH OF WILSON AVE.

LOOKING SOUTH
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING CANTILEVER SIGN STRUCTURE IS 18'-6" W x 12'-0" H, WITH AN ACTIVE AREA OF 18'-0" W x 11'-6" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\094_D160T93-sht-details035.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 094_D160T93-sht-details035	DRAWN - DS/AS	REVISED -
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

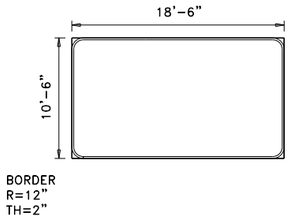
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-12

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	94
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-13
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT

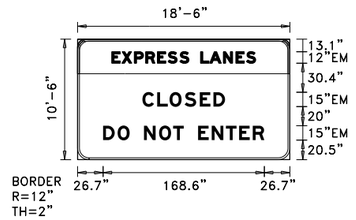
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-13
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

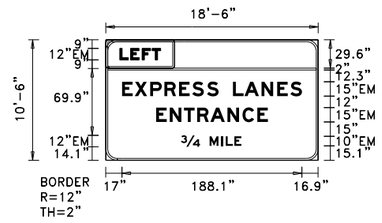
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-13
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are in Inches.tenths

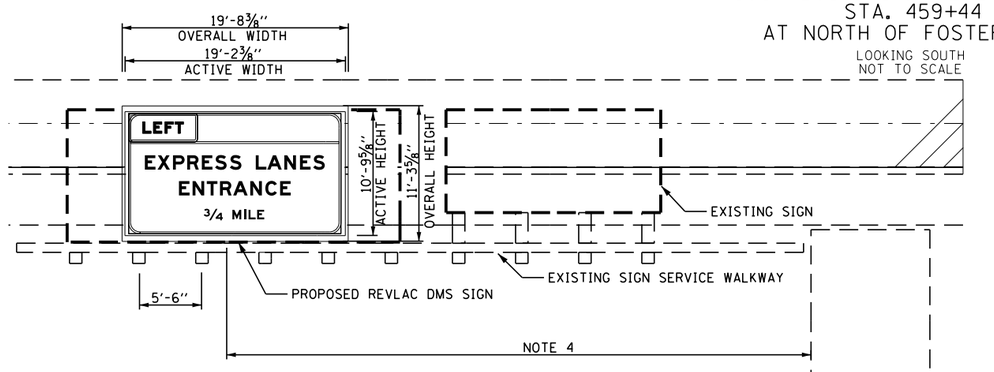
Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
11.1	13	12.2	12.2	11.1	12.2	12.2		11.1	15.1	12.2	11.1	12.2										188.1	15
E	N	T	R	A	N	C	E																EM 2000
11.1	12.2	11.1	12.2	15.1	12.2	12.2	11.1															116.9	15
3/4	M	I	L	E																			EM 2000
20	9.3	2	7.4	7.4																		63.3	12.10

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)

DMS SIGN CM-13
BRIDGE MOUNTED SIGN STRUCTURE
NO. 1B016I094R042.5-000
SOUTHBOUND I-94 (EDENS EXPY.)
STA. 459+44
AT NORTH OF FOSTER AVE.

LOOKING SOUTH
NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN FROM THE BRIDGE STRUCTURE WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING BRIDGE SIGN STRUCTURE IS 19'-8 3/8" W x 11'-3 3/8" H, WITH AN ACTIVE AREA OF 19'-2 3/8" W x 10'-9 5/8" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.
4. INSTALL REVLAC DMS SIGN AT THE SAME LATERAL DISTANCE FROM THE EDGE OF THE BRIDGE PIER TO THE ℄ OF REMOVED DRUM SIGN.

J:\293\Task-2\DGN\CADD Sheets\095_D160T93-sht-details036.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 095_D160T93-sht-details036	DRAWN - DS/AS	REVISED -
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

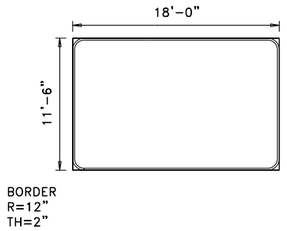
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-13

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	95
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-14
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: /White

SYMBOL	ROT	X	Y	WID	HT

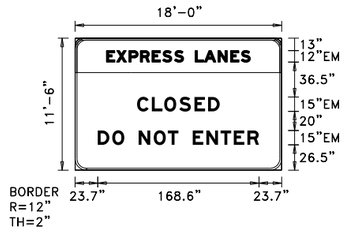
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-14
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

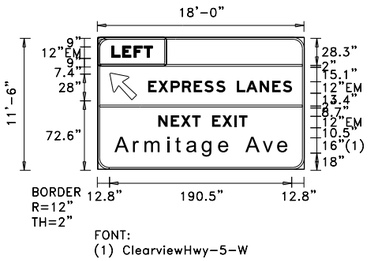
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-14
WIDTH x HGHT.	18'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

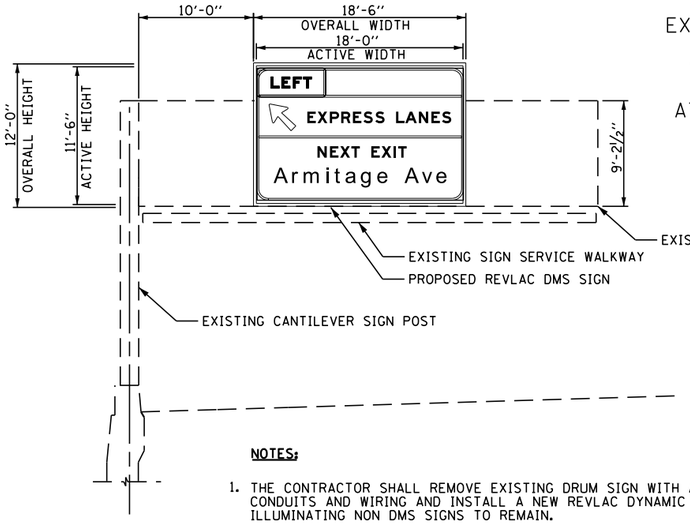
SYMBOL	ROT	X	Y	WID	HT
AR_Type A	45	12.8	72.6	22.3	35.6

Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
N	E	X	T		E	X	I	T															EM 2000
9.7	8.9	10.4	8.9		8.9	10.4	2.4	8.9														93.2	12
A	r	m	l	t	a	g	e		A	v	e												ClearviewHwy-5-W
15	7.4	18.1	3.7	7.9	11.9	11.7	11.8		15	12.2	11.8											182	16/13

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)



DMS SIGN CM-14
EXISTING CANTILEVER SIGN STRUCTURE
NO. 1C016I094R043.3-000
SOUTHBOUND I-90 (KENNEDY EXPY.)
STA. 610+41
AT REVERSIBLE LANE ENTRANCE RAMP

LOOKING SOUTH
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING CANTILEVER SIGN STRUCTURE IS 18'-6" W x 12'-0" H, WITH AN ACTIVE AREA OF 18'-0" W x 11'-6" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\096_D160T93-sht-details037.dgn

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USER NAME = mgarvida	DESIGNED - DJ/AG	REVISED -
FILE NAME = 096_D160T93-sht-details037	DRAWN - DS/AS	REVISED -
PLOT SCALE = 13.200000:1.000000	CHECKED - IY	REVISED -
PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

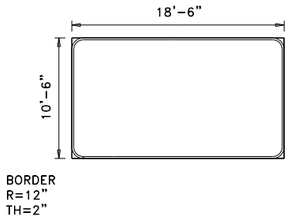
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-14

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	96
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL
1:100



SIGN NUMBER	CM-15
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: /White

SYMBOL	ROT	X	Y	WID	HT

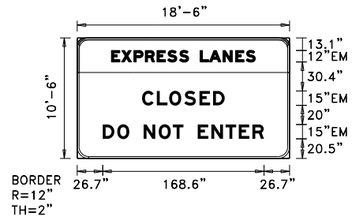
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)	LENGTH	SERIES-SIZE

REVLAC DMS DISPLAY MESSAGE (BLANK POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-15
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: White
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/Black

SYMBOL	ROT	X	Y	WID	HT

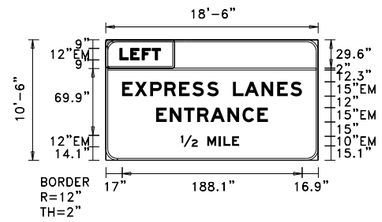
Dimensions are in inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
8.9	10.4	9.7	9.7	8.9	9.7	9.7		8.9	12.1	9.7	8.9	9.7										150.5	12
C	L	O	S	E	D																		EM 2000
12.2	11.1	12.6	12.2	11.1	12.2																	86.4	15
D	O		N	O	T		E	N	T	E	R												EM 2000
12.2	12.6		12.2	12.6	11.1		11.1	12.2	11.1	11.1	12.2											168.6	15

REVLAC DMS DISPLAY MESSAGE (CLOSED POSITION)

SIGN DETAIL
1:100



SIGN NUMBER	CM-15
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/White

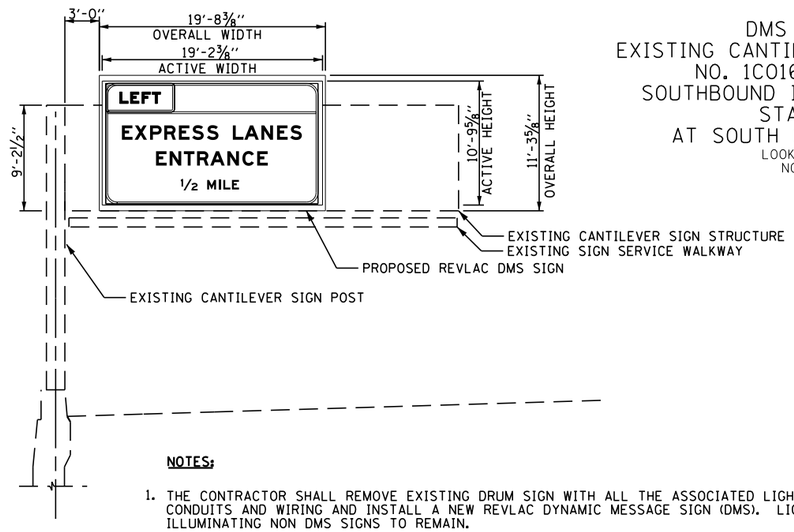
SYMBOL	ROT	X	Y	WID	HT

Dimensions are in Inches.tenths

Letter widths are shown

LETTER POSITIONS (X)																						LENGTH	SERIES-SIZE
L	E	F	T																				EM 2000
8.9	8.9	8.9	8.9																			42.7	12
E	X	P	R	E	S	S		L	A	N	E	S											EM 2000
11.1	13	12.2	12.2	11.1	12.2	12.2		11.1	15.1	12.2	11.1	12.2										188.1	15
E	N	T	R	A	N	C	E																EM 2000
11.1	12.2	11.1	12.2	15.1	12.2	12.2	11.1															116.9	15
½	M	I	L	E																			EM 2000
17.6	9.3	2	7.4	7.4																		60.9	12.10

REVLAC DMS DISPLAY MESSAGE (OPEN POSITION)



DMS SIGN CM-15
EXISTING CANTILEVER SIGN STRUCTURE
NO. 1C016I090R084.3-000
SOUTHBOUND I-90 (KENNEDY EXPY.)
STA. 3628+00
AT SOUTH OF LAWRENCE AVE.

LOOKING SOUTHEAST
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL REMOVE EXISTING DRUM SIGN WITH ALL THE ASSOCIATED LIGHTING FIXTURES, CONDUITS AND WIRING AND INSTALL A NEW REVLAC DYNAMIC MESSAGE SIGN (DMS). LIGHT FIXTURES ILLUMINATING NON DMS SIGNS TO REMAIN.
2. REVLAC DMS SIGN PANEL DISPLAY MESSAGES FOR THE THREE DIFFERENT POSITIONS WERE DESIGNED PER THE LATEST MUTCD STANDARDS AND ARE SHOWN HERE FOR INFORMATION ONLY.
3. THE ACTUAL REVLAC DMS SIGN SIZE THAT WILL BE PLACED ON THE EXISTING CANTILEVER SIGN STRUCTURE IS 19'-8⅜" W x 11'-3⅝" H, WITH AN ACTIVE AREA OF 19'-2⅜" W x 10'-9⅝" H. THE REVLAC DMS SIGN ATTACHMENT DETAILS TO THE EXISTING STRUCTURE AND THE DMS SIGN PANEL DISPLAY MESSAGE PROGRAMMING WILL BE PROVIDED BY THE REVLAC DMS SIGN MANUFACTURER.

J:\293\Task-2\DGN\CADD Sheets\097_D160T93-sht-details038.dgn

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PLOT DATE = 07-MAY-2015 14:10	DATE - 5/6/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS SIGN LEGENDS CM-15

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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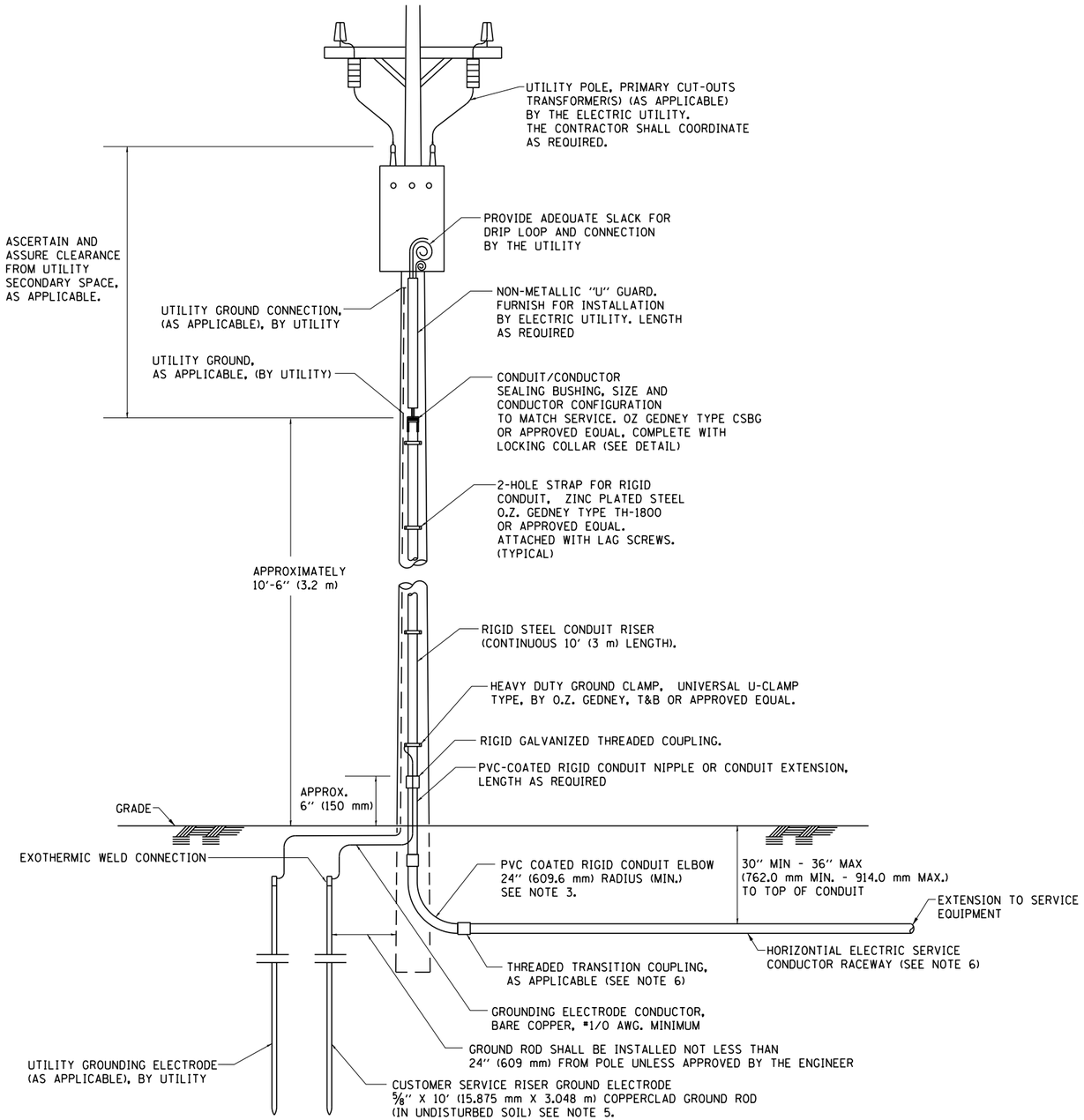
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			

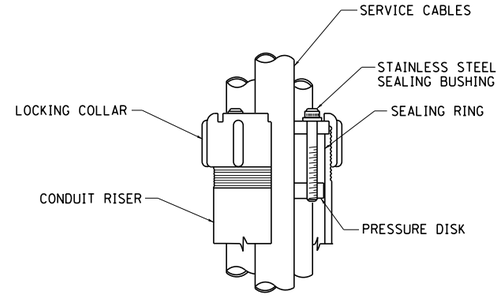


APPLICATION

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

NOTES

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



SEALING BUSHING DETAIL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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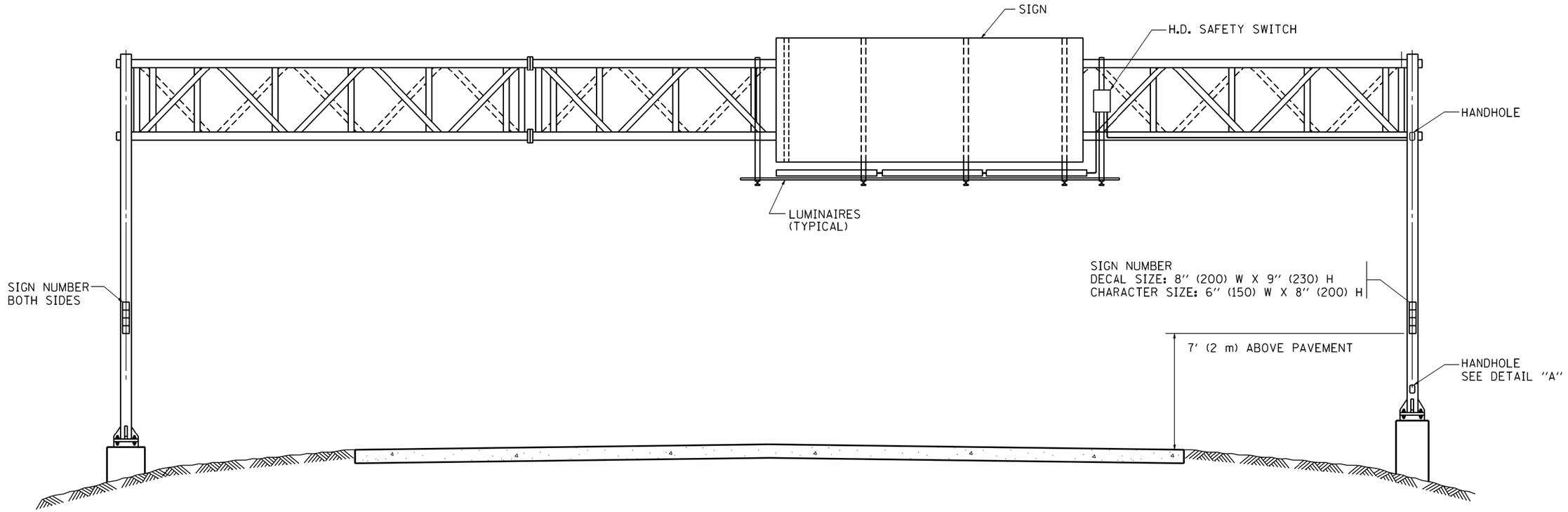
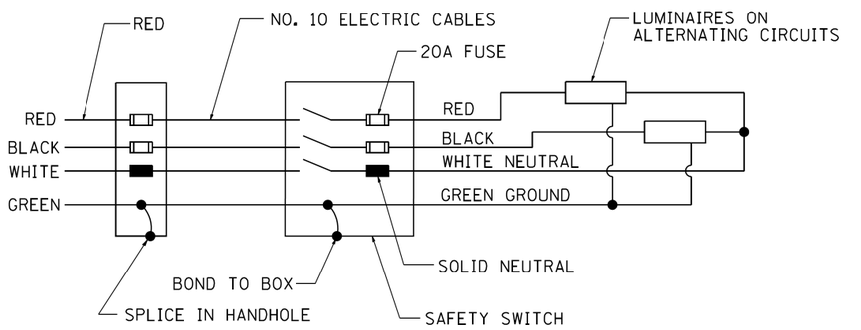
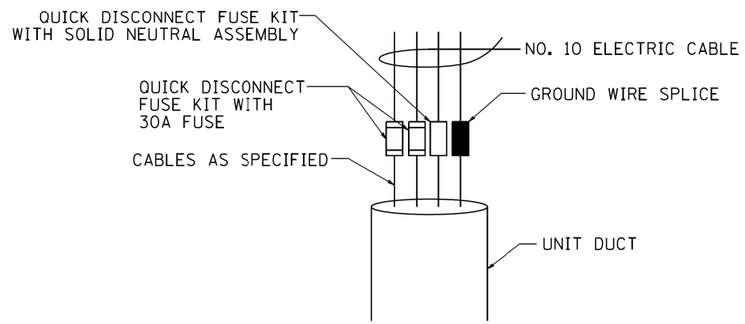
		CONTRACT NO. 60T93		
	ILLINOIS FED. AID PROJECT			





WIRING DIAGRAM



DETAIL A

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE GALVANIZED RIGID METALIC CONDUIT, PVC COATED (GRMC, PVC)
3. THE USE OF LIQUID TIGHT METAL CONDUIT (TYPE LFMC) SHALL BE LIMITED TO LOCATIONS WHERE MOVEMENT IS ANTICIPATED AND SHALL NOT EXCEED 5' (1.5 m) IN LENGTH
4. ALL WORK INDICATED SHALL BE INCLUDED IN THE PAY ITEM FOR ELECTRIC CONNECTION TO SIGN STRUCTURE
5. THE SAFETY SWITCH SHALL BE LOCATED ON THE SIDE OF THE SIGN STRUCTURE WHICH IS CLOSEST TO THE SHOULDER, OR EDGE OF PAVEMENT.

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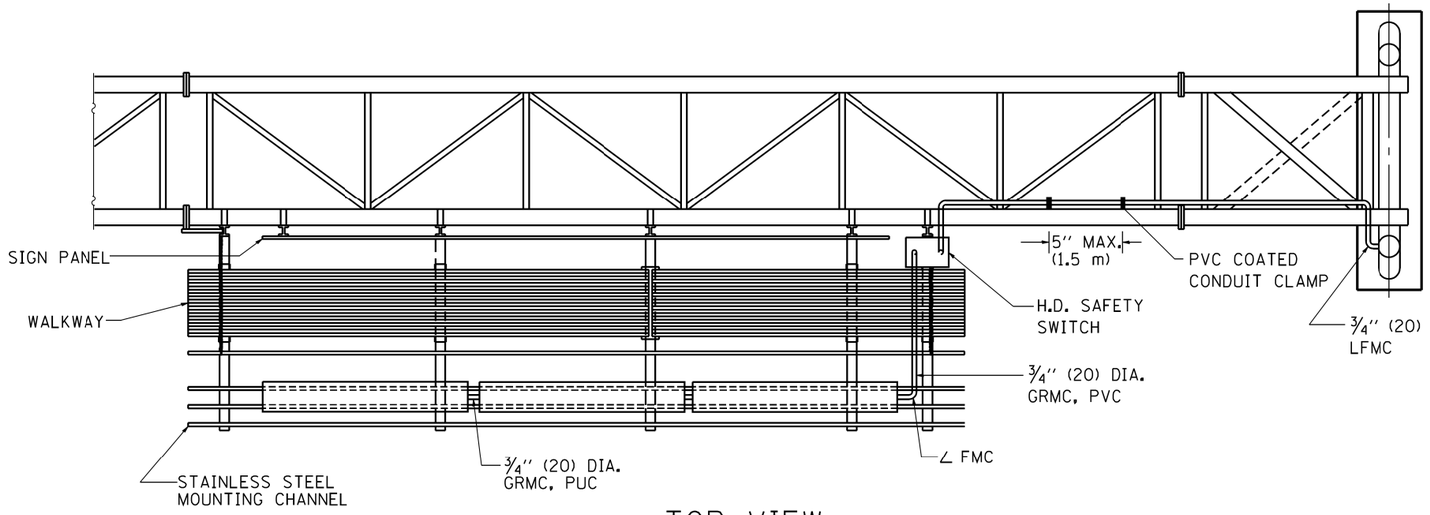
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

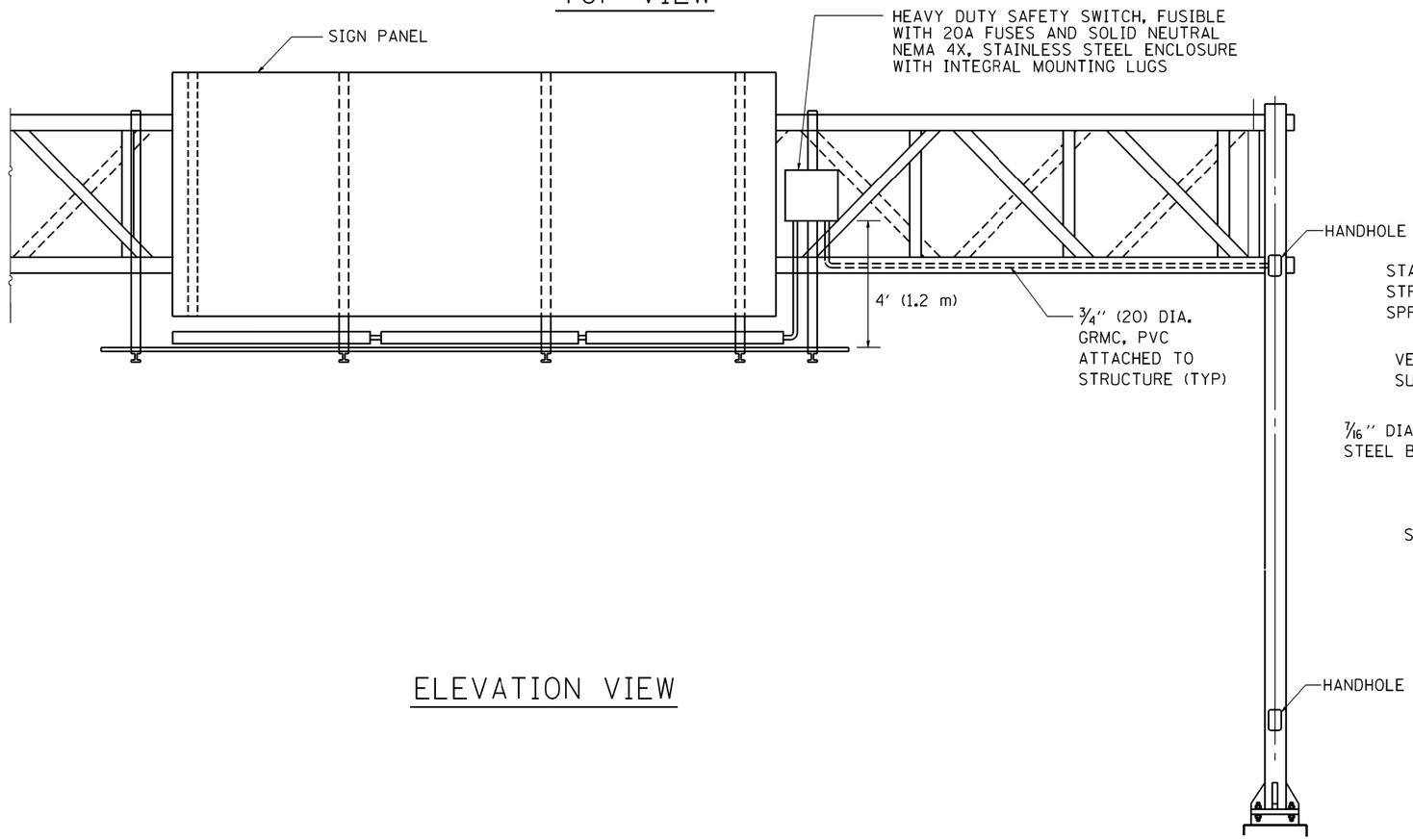
ELECTRIC CONNECTION TO SIGN STRUCTURE
SPAN TYPE

SCALE: NONE | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

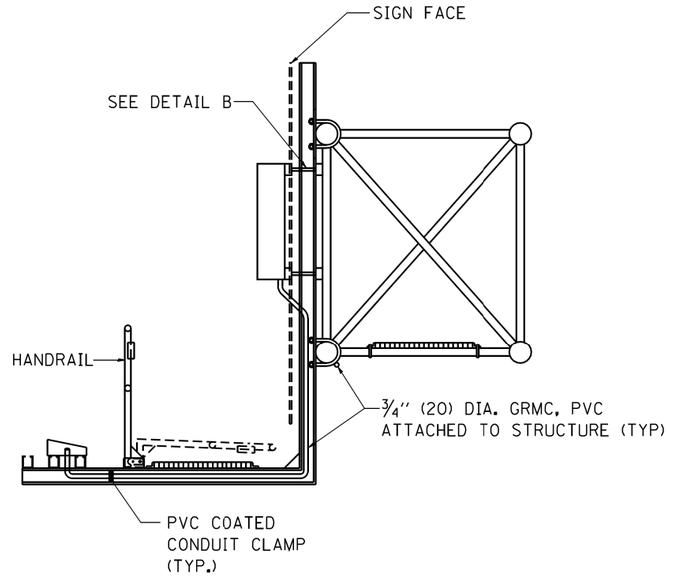
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	99
	BE-600	CONTRACT NO. 60T93		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

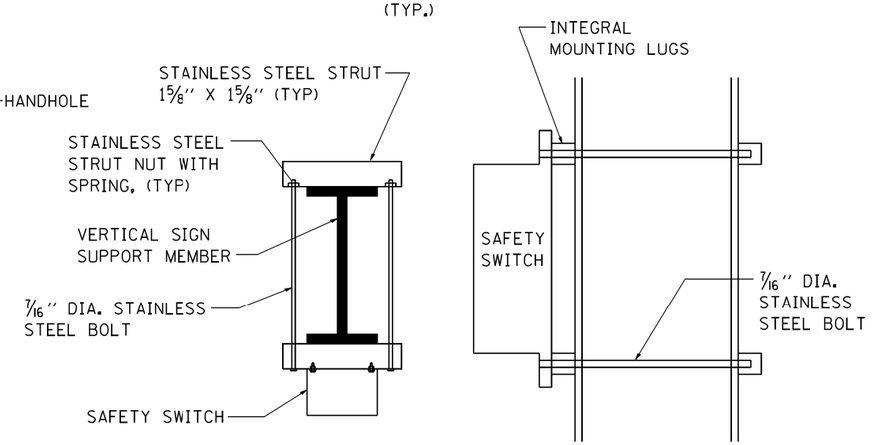


TOP VIEW



ELEVATION VIEW





TOP VIEW SIDE VIEW

DETAIL B

FILE NAME = W:\diststd\22x34\be600.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - 09-19-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC CONNECTION TO SIGN STRUCTURE SPAN TYPE
		DRAWN -	REVISED -		
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0521	COOK	165	100
	BE-600	CONTRACT NO. 60T93		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		