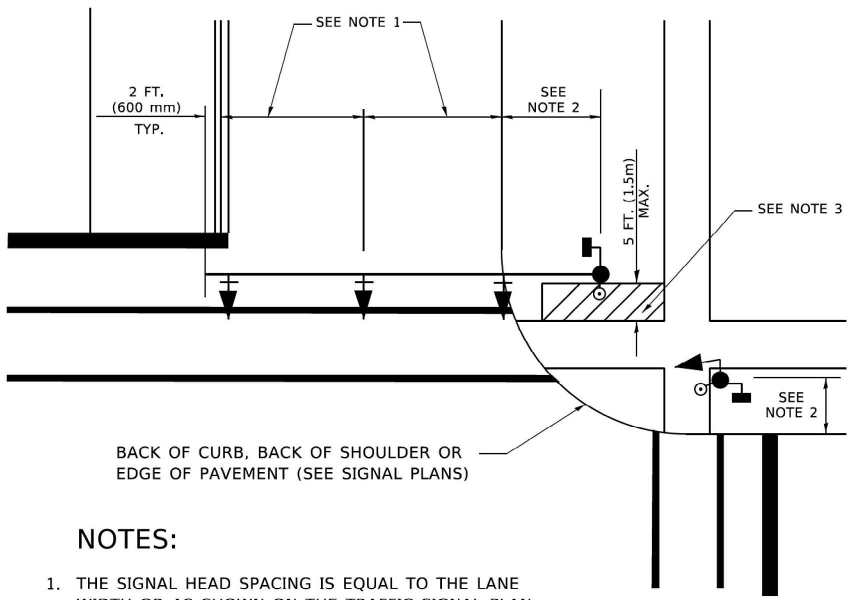
## TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

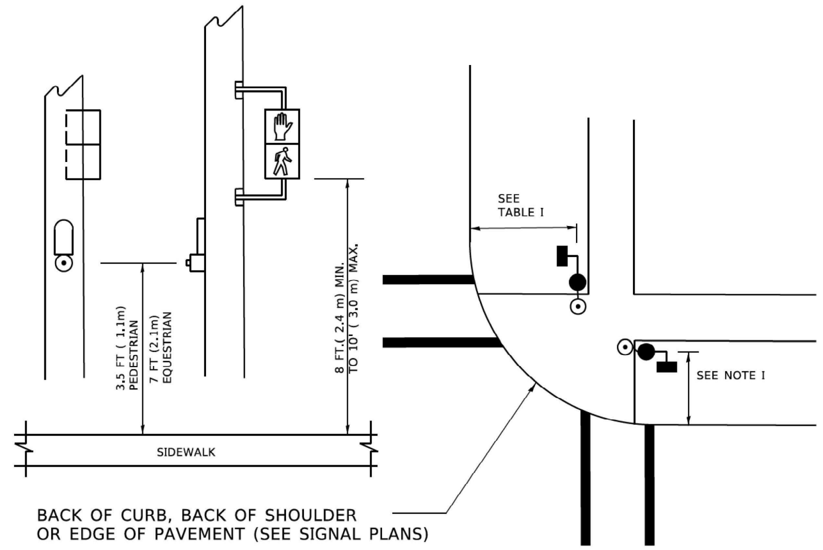
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.




### NOTES:

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

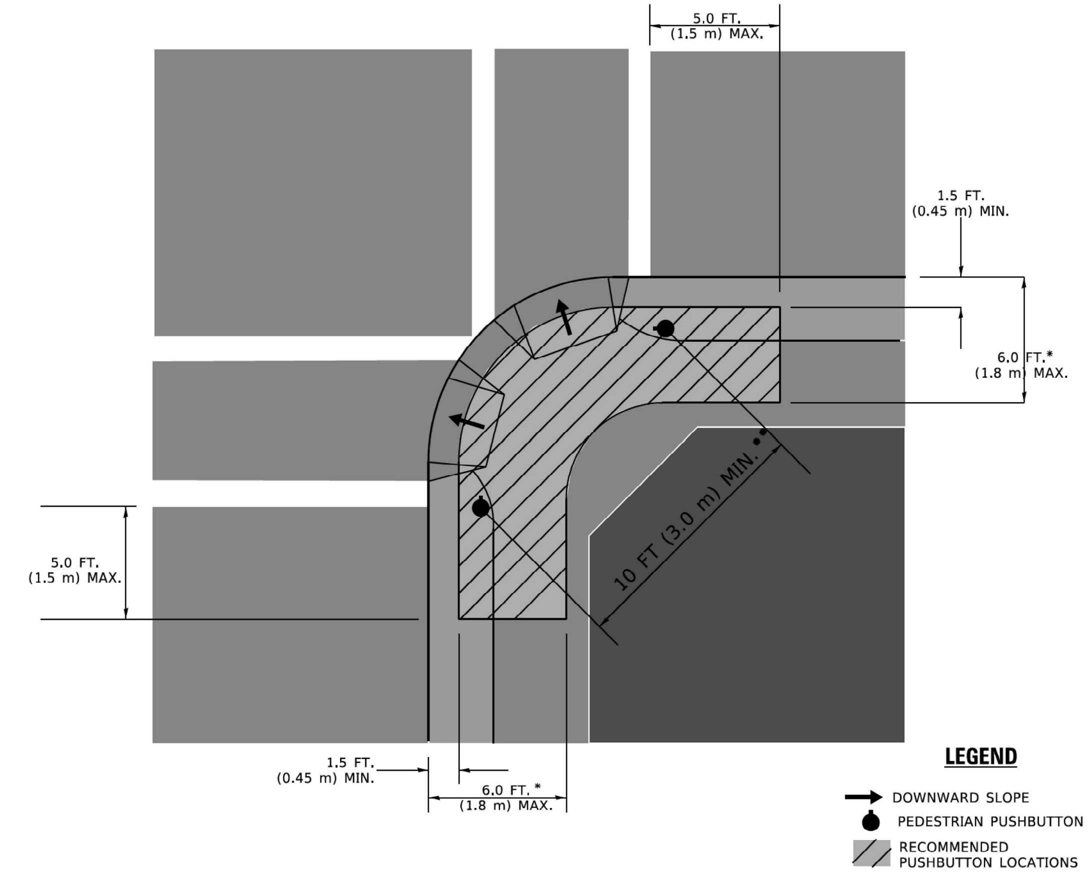
## PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST




### NOTES:

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

## RECOMMENDED PUSHBUTTON LOCATIONS




* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

### NOTES:

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

### TRAFFIC SIGNAL EQUIPMENT OFFSET

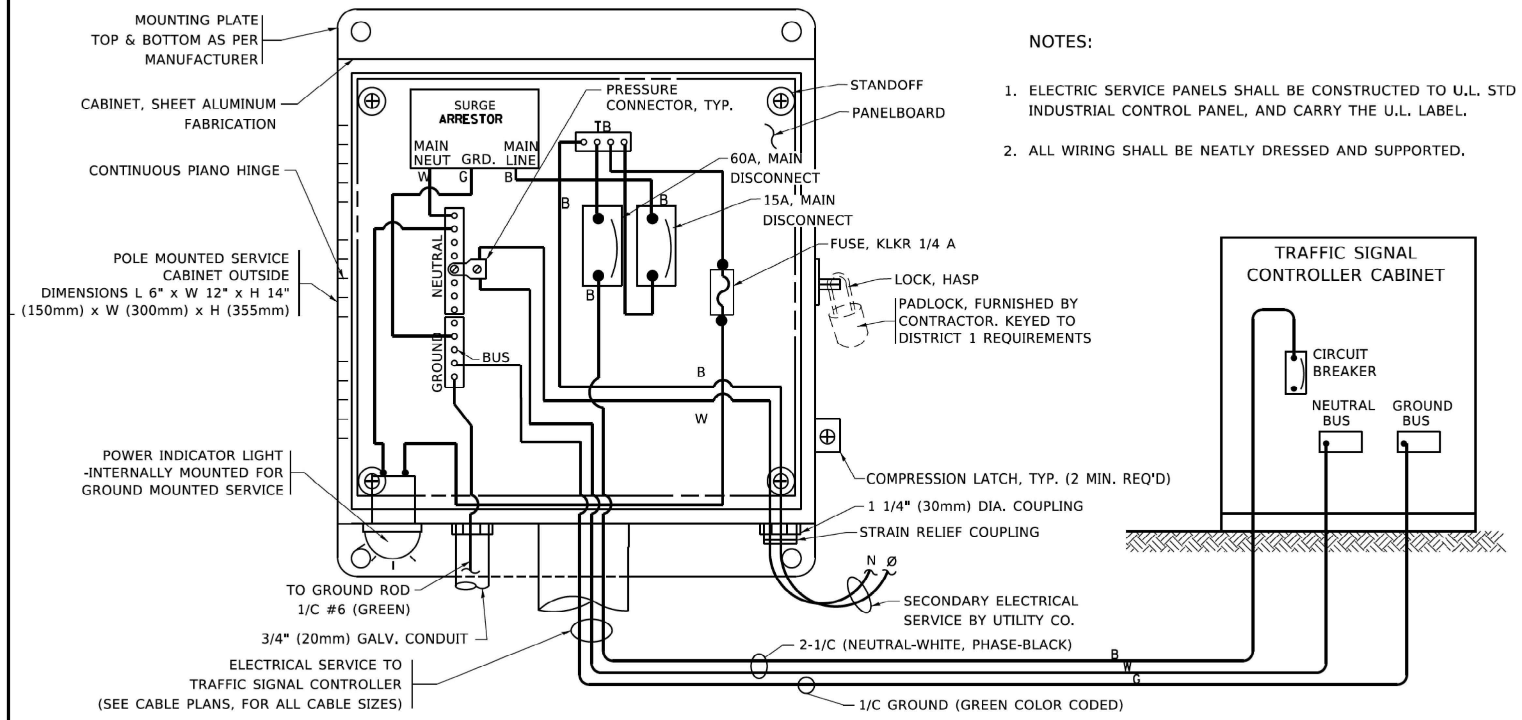
| TRAFFIC SIGNAL EQUIPMENT | COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION) | SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION) |
|---|---|---|
| TRAFFIC SIGNAL MAST ARM POLE | 6 FT (1.8m) | SHOULDER WIDTH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

### NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

NOTES:

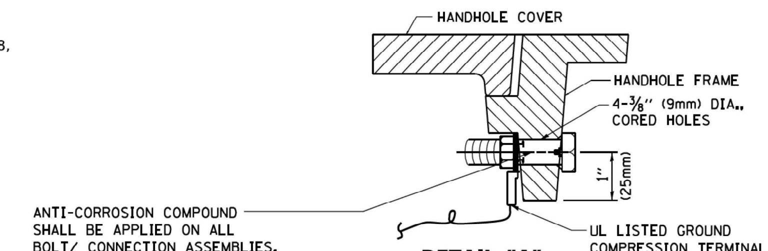
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



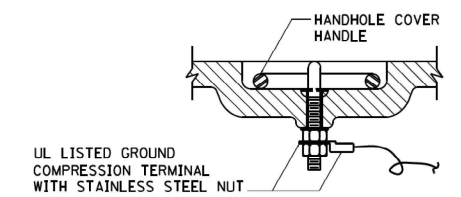

**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**

SERVICE INSTALLATION POLE MOUNT (SHOWN)

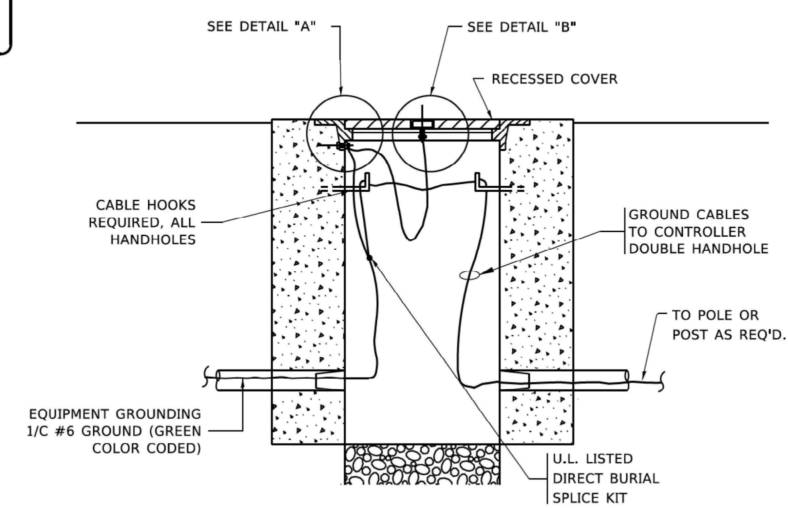
(NOT TO SCALE)




**DETAIL "A"**




**DETAIL "B"**



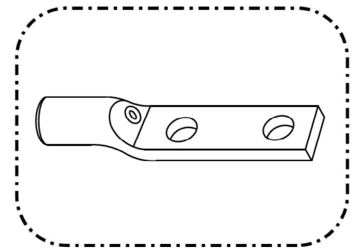

**HANDHOLE COVER & FRAME – GROUNDING DETAIL**

(NOT TO SCALE)

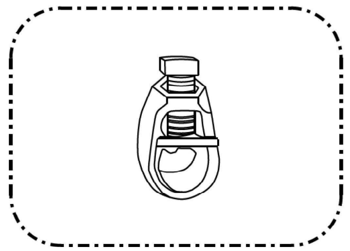
NOTES:

**GROUNDING SYSTEM**

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



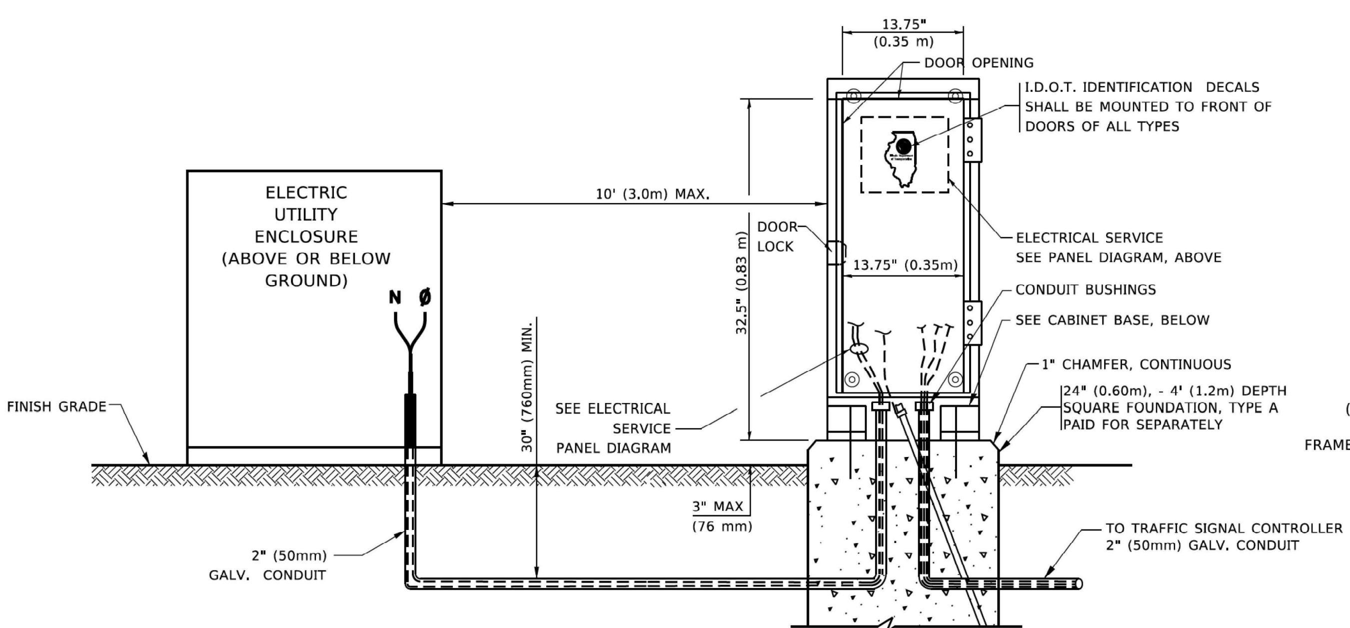
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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

NOTES:

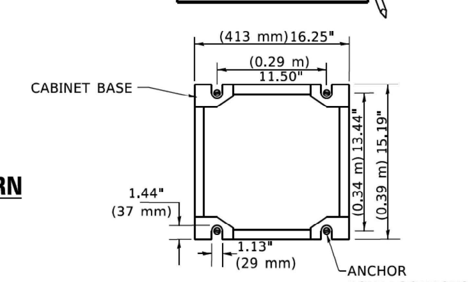
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.




**SERVICE INSTALLATION**

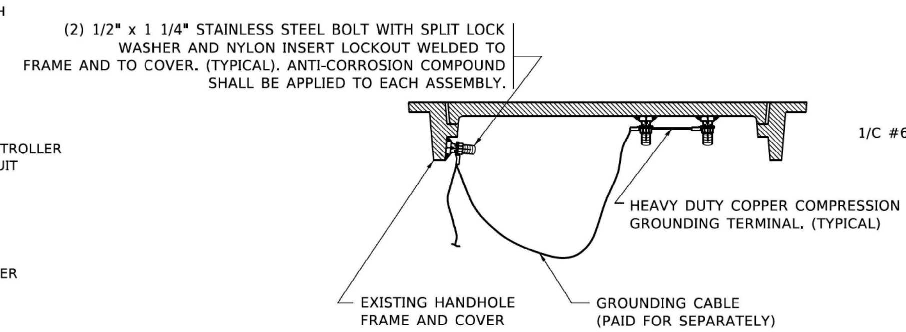
GROUND MOUNT

(NOT TO SCALE)



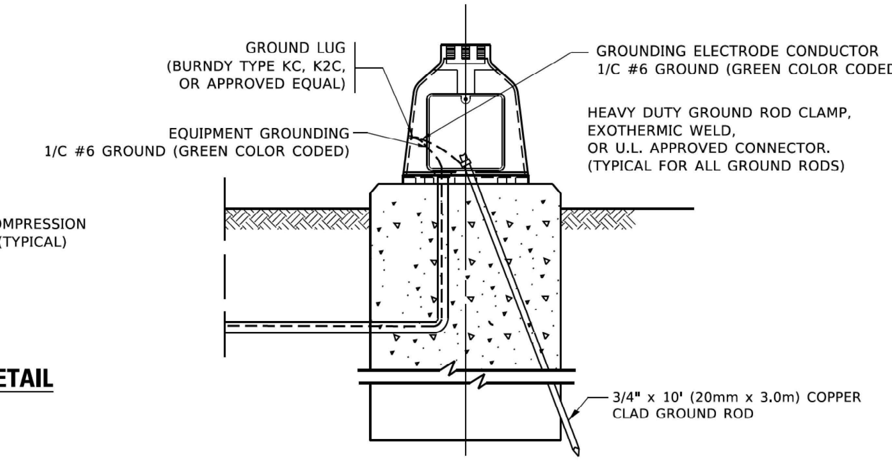

**CABINET – BASE BOLT PATTERN**

(NOT TO SCALE)



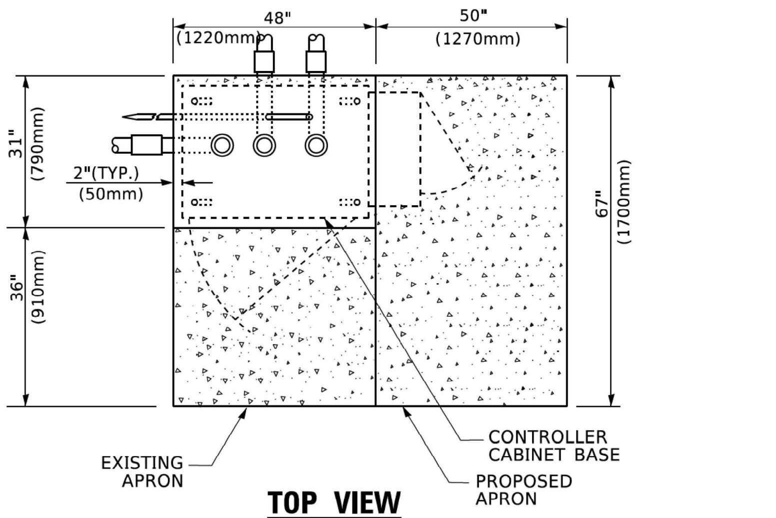

**EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL**

(NOT TO SCALE)

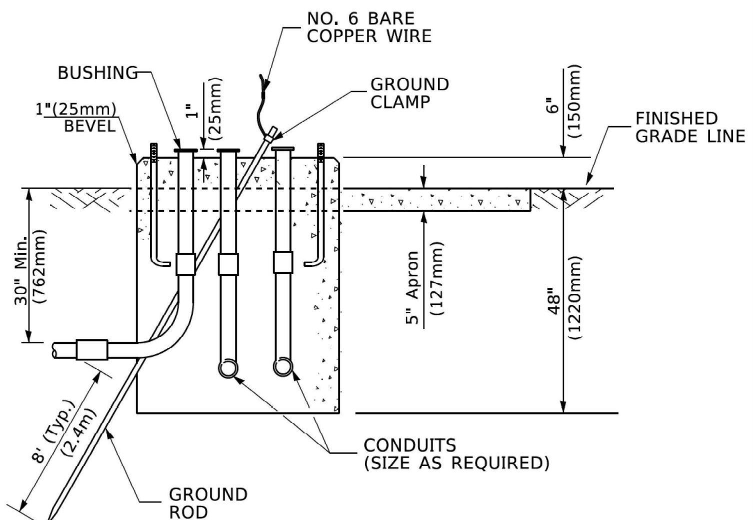



**MAST ARM POLE /POST–GROUNDING DETAIL**

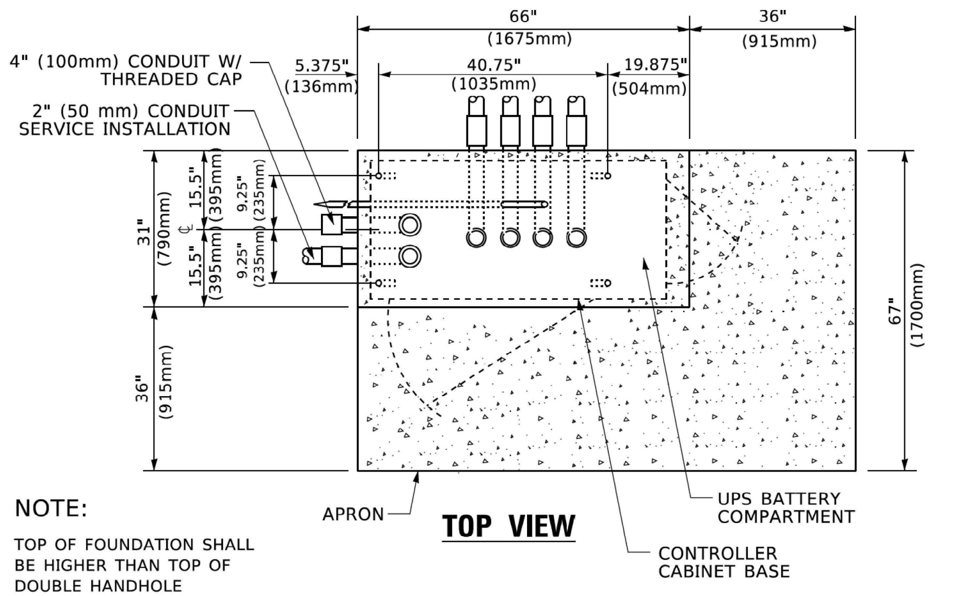
(NOT TO SCALE)




**TOP VIEW**



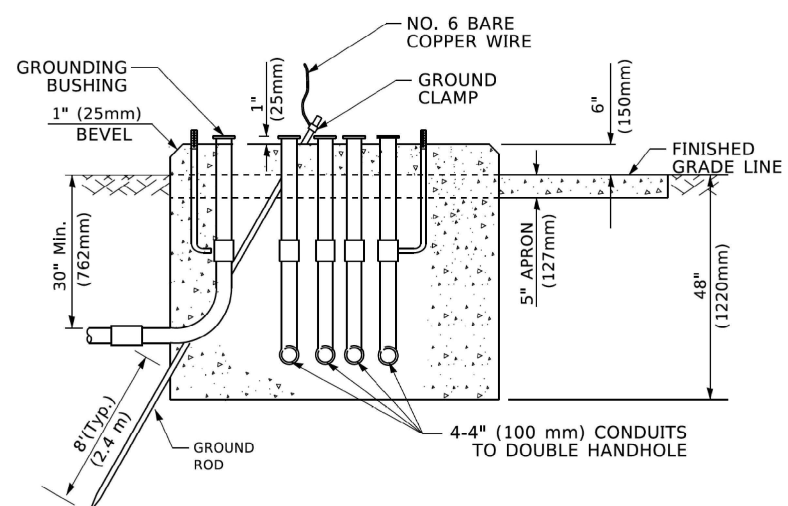

**TYPE D**
**FOR GROUND MOUNTED**
**CONTROLLER CABINET**
**AND UPS BATTERY CABINET**



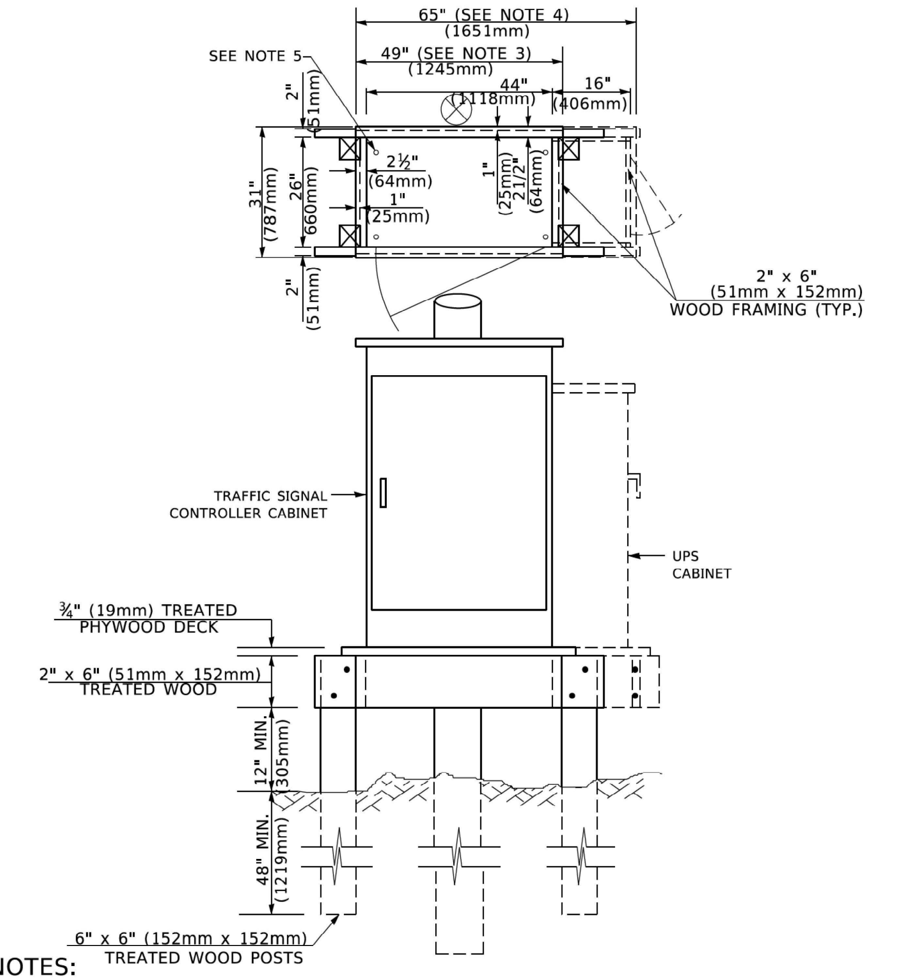

**TOP VIEW**

NOTE:

TOP OF FOUNDATION SHALL
BE HIGHER THAN TOP OF
DOUBLE HANDHOLE




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




NOTES:

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

**TEMPORARY SIGNAL CONTROLLER**
**WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

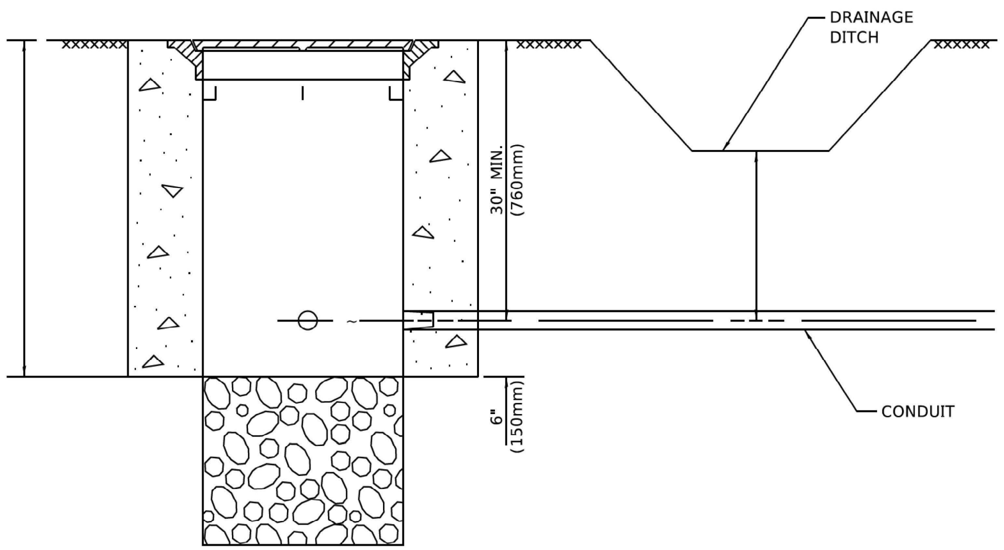
**DEPTH OF FOUNDATION**

| Mast Arm Length | ① Foundation Depth | Foundation Diameter | Spiral Diameter | Quantity of Rebars | Size of Rebars |
|---|---|---|---|---|---|
| Less than 30′ (9.1 m) | 10′-0″ (3.0 m) | 30″ (750mm) | 24″ (600mm) | 8 | 6(19) |
| Greater than or equal to 30′ (9.1 m) and less than 40′ (12.2 m) | 13′-6″ (4.1 m) | 30″ (750mm) | 24″ (600mm) | 8 | 6(19) |
| | 11′-0″ (3.4 m) | 36″ (900mm) | 30″ (750mm) | 12 | 7(22) |
| Greater than or equal to 40′ (12.2 m) and less than 50′ (15.2 m) | 13′-0″ (4.0 m) | 36″ (900mm) | 30″ (750mm) | 12 | 7(22) |
| Greater than or equal to 50′ (15.2 m) and up to 55′ (16.8 m) | 15′-0″ (4.6 m) | 36″ (900mm) | 30″ (750mm) | 12 | 7(22) |
| Greater than or equal to 56′ (16.8 m) and less than 65′ (19.8 m) | 21′-0″ (6.4 m) | 42″ (1060mm) | 36″ (900mm) | 16 | 8(25) |
| Greater than or equal to 65′ (19.8 m) and up to 75′ (22.9 m) | 25′-0″ (7.6 m) | 42″ (1060mm) | 36″ (900mm) | 16 | 8(25) |

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36″ (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42″ (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

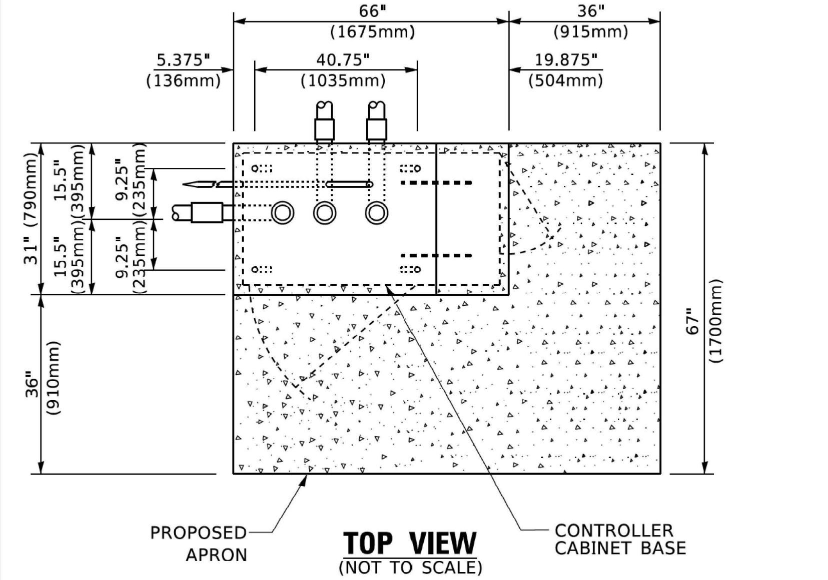
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**



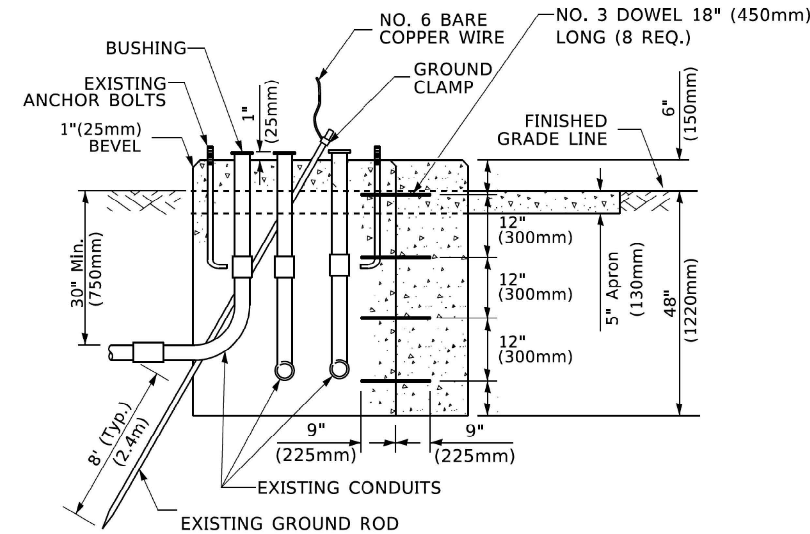

NOTES:

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

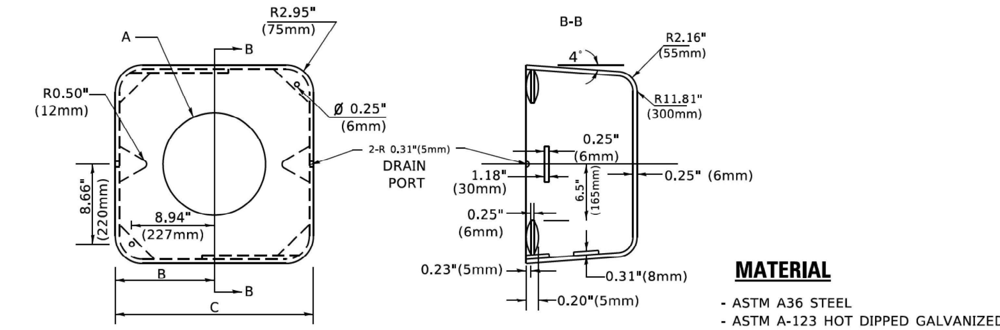
## HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)




## TOP VIEW
(NOT TO SCALE)




## MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)




**MATERIAL**

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

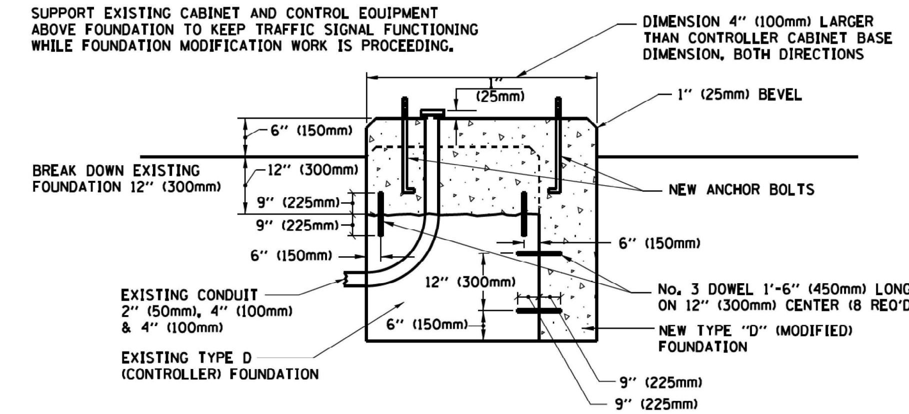
| A | B | C | HEIGHT | WEIGHT |
|---|---|---|---|---|
| VARIES | 9.5"(241mm) | 19"(483mm) | 7" (178mm) - 12" (300mm) | 53 lbs (24kg) |
| VARIES | 10.75"(273mm) | 21.5"(546mm) | 7" (178mm) - 12" (300mm) | 68 lbs (31 kg) |
| VARIES | 13.0"(330mm) | 26"(660mm) | 7" (178mm) - 12" (300mm) | 81 lbs (37 kg)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

## SHROUD

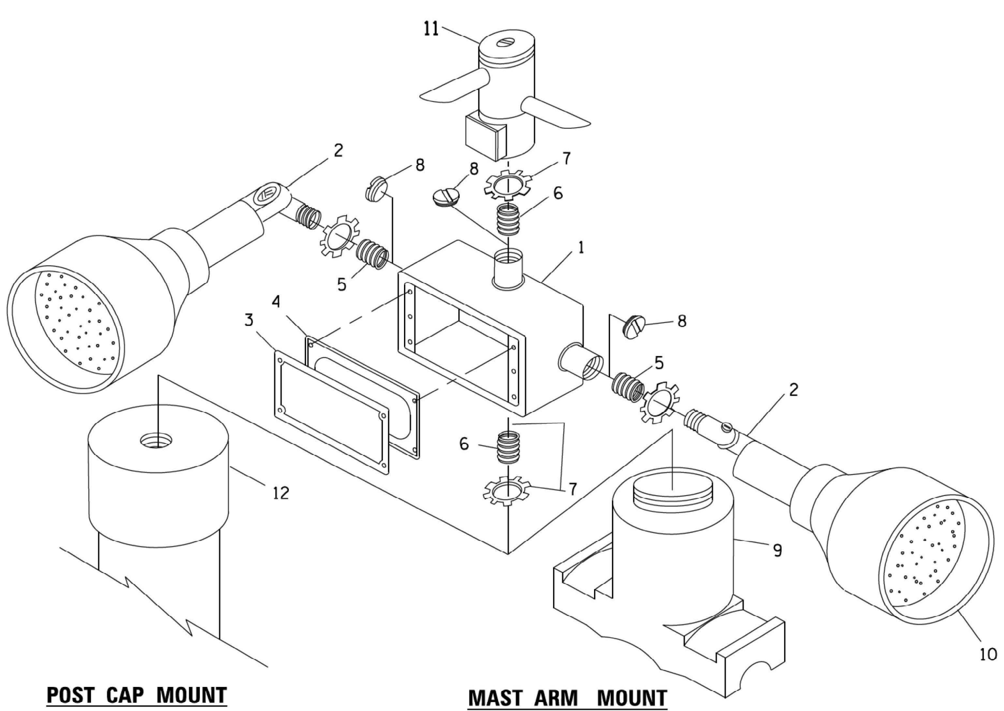
NOTES:

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

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




## MODIFY EXISTING TYPE "D" FOUNDATION

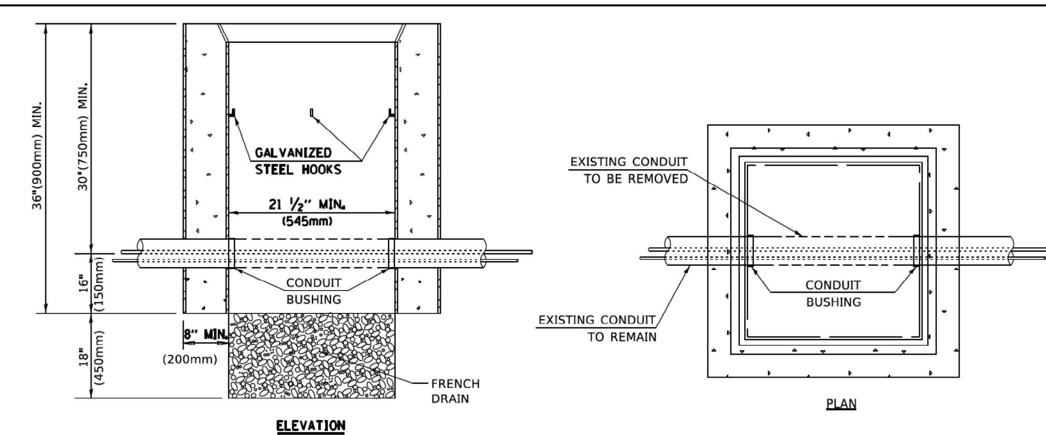



## EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

| ITEM NO. | IDENTIFICATION |
|---|---|
| 1 | OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) |
| 2 | LAMP HOLDER AND COVER |
| 3 | OUTLET BOX COVER |
| 4 | RUBBER COVER GASKET |
| 5 | REDUCING BUSHING |
| 6 | ¾"(19 mm) CLOSE NIPPLE |
| 7 | ¾"(19 mm) LOCKNUT |
| 8 | ¾"(19 mm) HOLE PLUG |
| 9 | SADDLE BRACKET - GALV. |
| 10 | 6 WATT PAR 38 LED FLOOD LAMP |
| 11 | DETECTOR UNIT |
| 12 | POST CAP [18 FT. (5.4 m) POST MIN.] |

NOTES:

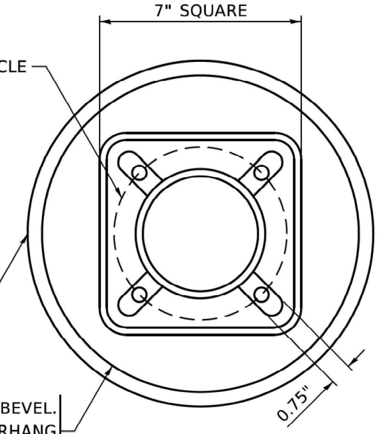
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.




NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

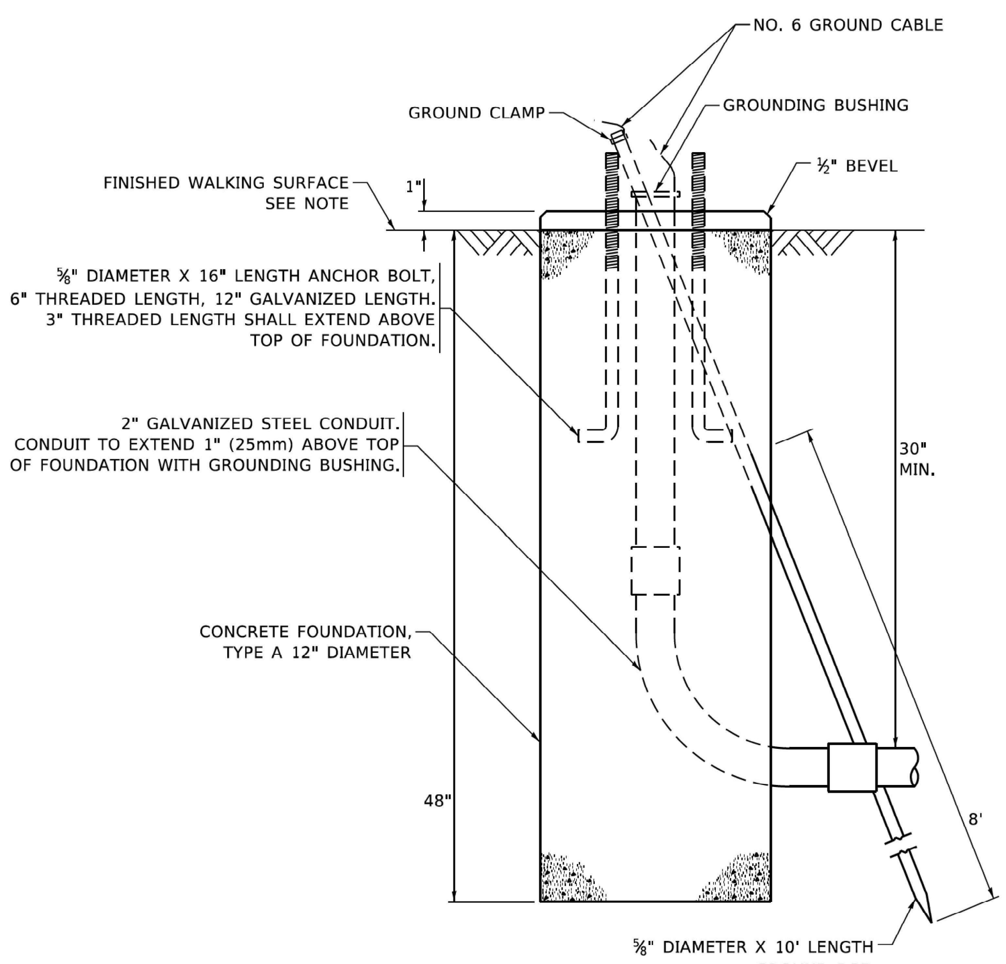
## HANDHOLE TO INTERCEPT EXISTING CONDUIT



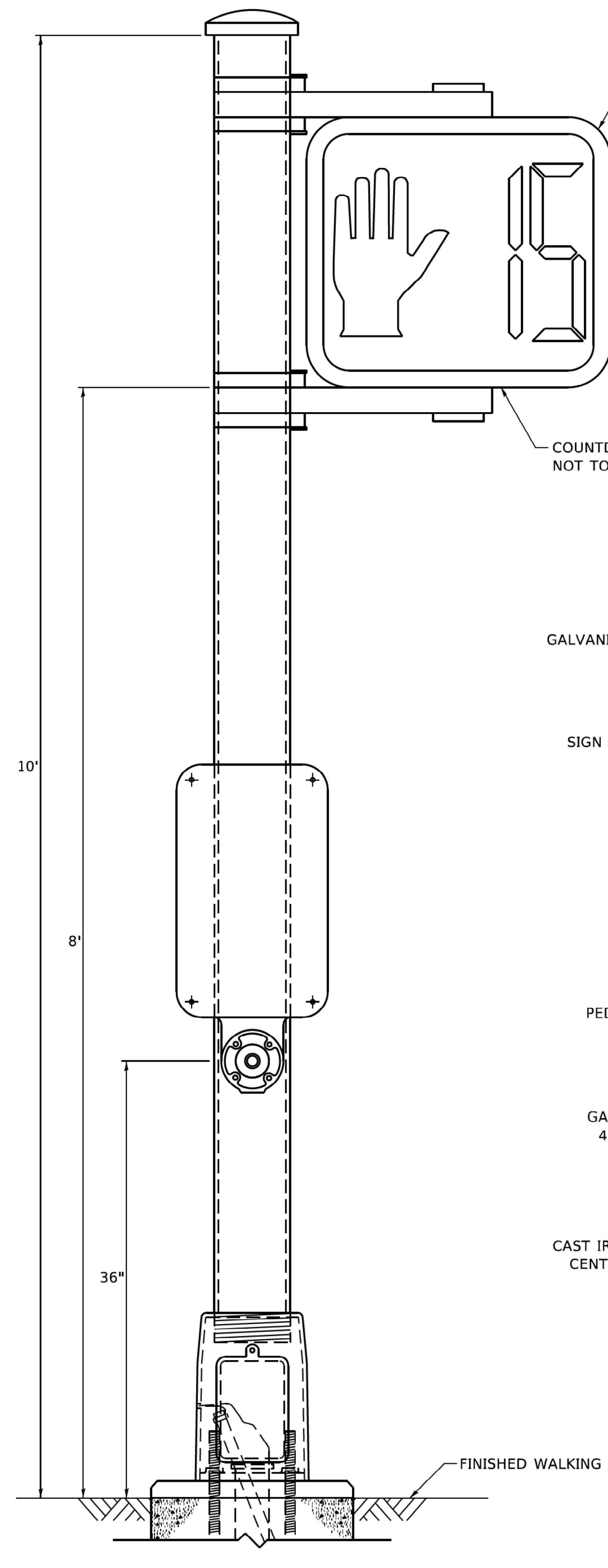

**BOLT PATTERN**

**NOTE:**

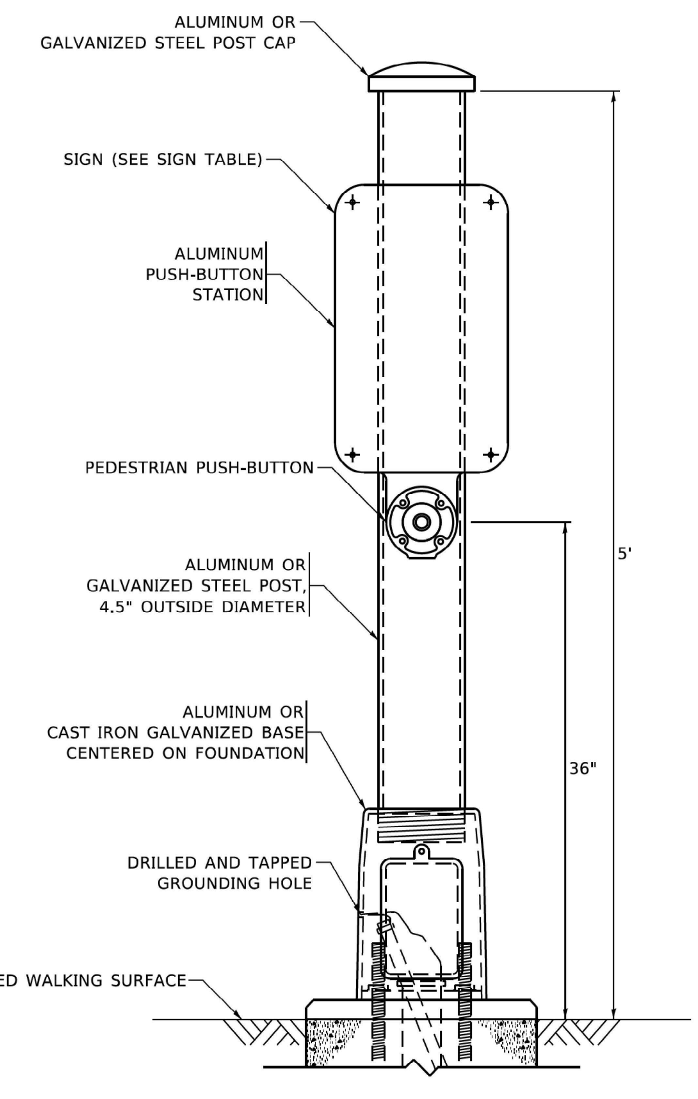
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.




**CONCRETE FOUNDATION, TYPE A 12–INCH DIAMETER**




**PEDESTRIAN SIGNAL POST, 10 FT.**




**PEDESTRIAN SIGNAL POST, 5 FT.**


**R10–3b** **R10–3d** **R10–3e**

**SIGN TABLE**

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

**NOTES:**

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

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

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

**DISTRICT ONE**
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-264-SUR,SW&TS | DUPAGE | 529 | 305 |
| | TS–05 | CONTRACT NO. 62N33 | | |
| | ILLINOIS FED. AID PROJECT | | | |

## COMMUNICATIONS GENERAL NOTES

1. FIBER OPTIC DISTRIBUTION AND TRUNK CABLES SHALL BE INSTALLED BETWEEN COMMUNICATIONS VAULTS, NODE CABINETS, AND BUILDINGS AS SHOWN ON THE PLANS. FIBER OPTIC DISTRIBUTION AND TRUNK CABLES SHALL ONLY BE INSTALLED THROUGH HEAVY-DUTY COMMUNICATIONS HANDHOLES WHERE PULL POINTS ARE REQUIRED IN SHOULDERS. FIBER OPTIC CABLE SLACK SHALL BE AS FOLLOWS:
   - -100 FEET FOR EACH CABLE (144 AND 12 FIBER) IN COMMUNICATIONS VAULTS.
   - -50 FEET FOR EACH CABLE (144 AND 12 FIBER) IN HEAVY-DUTY HANDHOLES.
2. NO END-TO-END FUSION SPLICES OF THE 144 STRAND FIBER OPTIC TRUNK CABLE HALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER. ANY END TO END SPLICES SHALL BE DONE IN A COMMUNICATIONS VAULT. ANY COSTS TO INSTALL ADDITIONAL COMMUNICATIONS VAULTS, SPLICE CLOSURES, AND FIBER SPLICES TO ACCOMMODATE END-TO-END SPLICING SHALL BE AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. ELECTRICAL CONDUIT SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE.
4. FIBER OPTIC CONDUIT SHALL BE INSTALLED A MINIMUM OF 42" BELOW GRADE UNLESS OTHERWISE DIRECTED IN THE PLANS.
5. CONDUIT CROSSING OVER/UNDER OTHER UTILITIES SHALL MAINTAIN A SEPARATION OF AT LEAST 12 INCHES OR AS SPECIFIED BY OWNING UTILITY. CHICAGO DEPARTMENT OF WATER MANAGEMENT REQUIRES 18 INCHES VERTICAL SEPARATION EDGE TO EDGE.
6. PROPOSED CONDUIT ROUTES SHOWN IN THE PLANS ARE SCHEMATIC ONLY. CONTRACTOR TO VERIFY EXACT ROUTE WITH THE ENGINEER.
7. ALL ABANDONED CABLES AND CONDUIT SHALL COMPLY WITH NEC REQUIREMENTS.
8. PROPOSED FIBER OPTIC DISTRIBUTION CABLE WILL CONNECT PROPOSED CCTV CAMERAS, PROPOSED DYNAMIC MESSAGE SIGNS, AND EXISTING TRAFFIC SIGNAL CABINETS AS SHOWN ON THE PLANS.
9. PROPOSED JUNCTION BOXES THROUGH WHICH FIBER OPTIC CABLE IS INSTALLED SHALL BE 42"x36"x12" UNLESS SHOWN OTHERWISE. THE MINIMUM SIZE JUNCTION BOX FOR FIBER OPTIC CABLE OR ELECTRICAL CABLES SHALL BE 24"x24"x8".
10. PAY ITEMS FOR JUCTION BOXES AND CONDUIT ATTACHED TO STRUCTURE ARE INCLUSIVE OF ALL MOUNTING AND MISCELLANEOUS HARDWARE.
11. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT 811, OR (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED. WHEN WITHIN THE CITY OF CHICAGO'S CORPORATE LIMITS ALSO CALL 811 OR (312) 744-7000.
12. IDOT FACILITIES ARE NOT LOCATED BY JULIE OR DIGGER. IDOT ELECTRICAL FACILITIES INCLUDING ROADWAY LIGHTING, FIBER OPTIC, ITS EQUIPMENT, TRAFFIC SIGNAL AND PUMP STATION FACILITIES ARE LOCATED BY THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR. AS OF THE LETTING DATE, CONTACT THE MEADE ELECTRIC COMPANY AT (773) 287-7672.

## COMMUNICATIONS ABBREVIATIONS AND ACRONYMS

| NOTATION | DESCRIPTION |
|---|---|
| (A) | ABANDON |
| ALUM | ALUMINUM |
| ATS | ATTACHED TO STRUCTURE |
| CAT-6 | CATEGORY 6 |
| CCH | CONNECTOR CLOSET HOUSING |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CHH | COMMUNICATIONS HANDHOLE |
| CMS | CHANGEABLE MESSAGE SIGN (REVLAC) |
| CMV | COMMUNICATIONS VAULT |
| CNC | COILABLE NONMETALLIC CONDUIT |
| COMM | COMMUNICATIONS |
| DCF | DISTRIBUTION CABLE FIBER (ASSET IDENTIFICATION TAG) |
| DIA. | DIAMETER |
| DMS | DYNAMIC MESSAGE SIGN |
| EB | EASTBOUND |
| ECC | ELECTRICAL CABLE IN CONDUIT |
| EHH | ELECTRICAL HANDHOLE |
| ELEC | ELECTRICAL |
| EMC | ELECTRICAL MAINTENANCE CONTRACTOR |
| EOP | EDGE OF PAVEMENT |
| EOS | EDGE OF SHOULDER |
| EOT | EDGE OF TRAVEL WAY |
| (E) | EXISTING |
| FO | FIBER OPTIC |
| FOC | FIBER OPTIC CABLE |
| FT. | FEET |
| GND | GROUND |
| (GRN) | GREEN |
| GS | GALVANIZED STEEL |
| GSC | GALVANIZED STEEL CONDUIT (RIGID) |
| HD | HIGH DEFINITION |
| HDHH | HEAVY-DUTY HANDHOLE |
| HH | HANDHOLE |
| (I) | INSTALL |
| IN. | INCHES |
| IP | INTERNET PROTOCOL |
| ITS | INTELLIGENT TRANSPORTATION SYSTEMS |
| ISTHA | ILLINOIS STATE TOLL HIGHWAY AUTHORITY |
| LCDOT | LAKE COUNTY DIVISION OF TRANSPORTATION |
| LCF | LATER CABLE FIBER (ASSET IDENTIFICATION TAG) |
| LED | LIGHT-EMITTING DIODE |
| LT | LEFT |
| MM | MULTIMODE |
| MOT | MAINTENANCE OF TRAFFIC |
| NEC | NATIONAL ELECTRICAL CODE |
| NB | NORTHBOUND |
| PGSC | PVC COATED GALVANIZED STEEL CONDUIT |
| PTZ | PAN TILT ZOOM CAMERA |
| (R) | REMOVE |
| ROW | RIGHT-OF-WAY |
| SFP | SMALL FORM-FACTOR PLUGGABLE (FIBER OPTIC TRANSCEIVER) |
| SM | SINGLE MODE |
| SB | SOUTHBOUND |
| S.P. | SPECIAL PROVISION |
| SS | STAINLESS STEEL |
| SSC | STAINLESS STEEL CONDUIT |
| STA. | STATION |
| TCF | TRUNK CABLE FIBER (ASSET IDENTIFICATION TAG) |
| TEMP | TEMPORARY |
| WB | WESTBOUND |

## COMMUNICATIONS PLAN LEGEND

| EXISTING | PROPOSED | DESCRIPTION |
|---|---|---|
| | | CONDUIT |
| | | RIGHT-OF-WAY FENCE |
| | | FIBER OPTIC CABLE IN CONDUIT |
| | | ELECTRICAL CABLE IN CONDUIT |
| | | CCTV CAMERA CABLES IN CONDUIT |
| | | LOOP DETECTOR LEAD-IN CABLE IN CONDUIT (EMPTY) |
| J | J | BARRIER WALL EMBEDDED JUNCTION BOX |
| J | J | STRUCTURE-MOUNTED JUNCTION BOX |
| C | C | HEAVY-DUTY HANDHOLE (COMMUNICATIONS) |
| E | E | HEAVY-DUTY HANDHOLE (ELECTRICAL) |
| H | H | HEAVY-DUTY HANDHOLE (MIXED USE) |
| V | V | COMMUNICATIONS VAULT |
| | | HANDHOLE |
| | | DOUBLE HANDHOLE |
| DMS | DMS | DYNAMIC MESSAGE SIGN |
| | | CCTV CAMERA, FIXED |
| C | C | CCTV CAMERA, PTZ |
| | | 50' CCTV CAMERA POLE |
| | | POLE-MOUNTED CABINET |
| | | GROUND-MOUNTED CABINET |
| | | LIGHTING CONTROLLER CABINET |
| | | UTILITY SERVICE POLE |
| | | POLE-MOUNTED COMED TRANSFORMER |
| | | GROUND MOUNTED COMED TRANSFORMER |
| M | M | UTILITY SERVICE METER |

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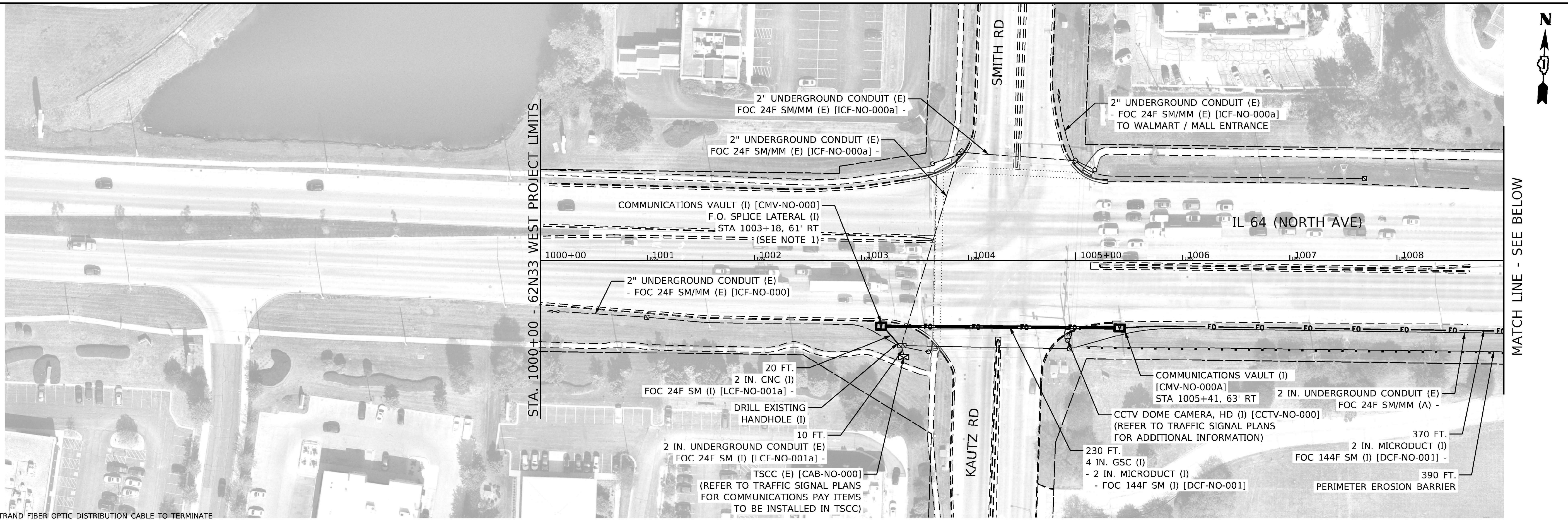
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATION LEGEND AND GENERAL NOTES

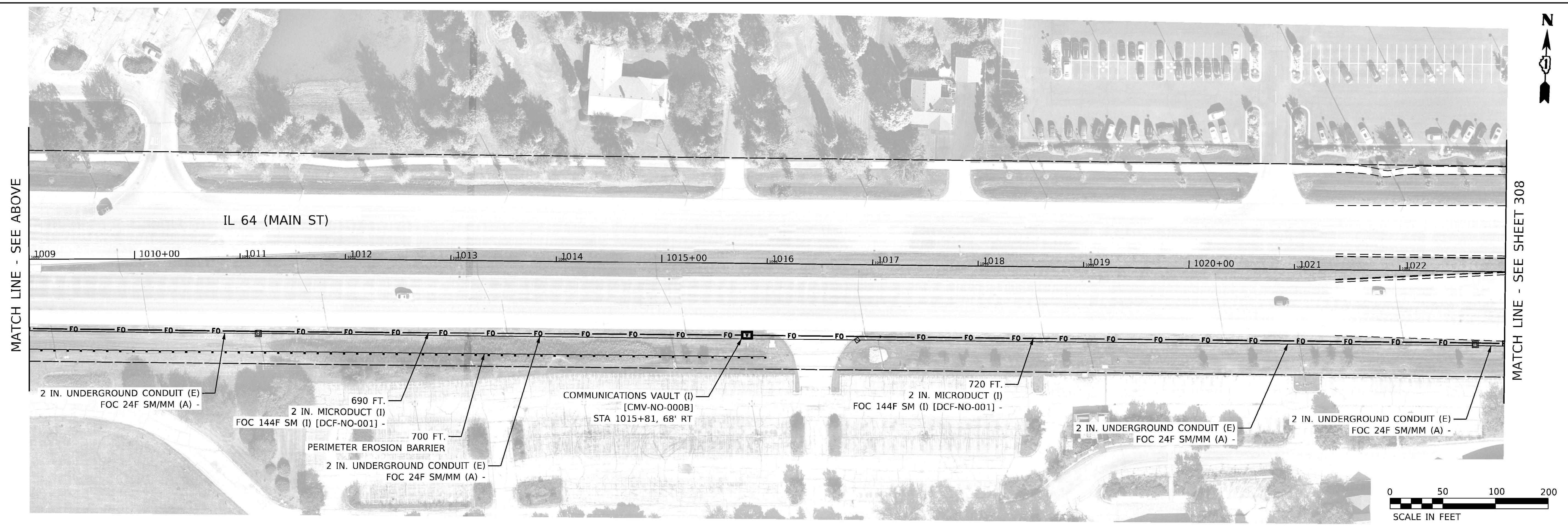
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 306 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |




## NOTES:

1) PROPOSED 144 STRAND FIBER OPTIC DISTRIBUTION CABLE TO TERMINATE IN SPLICE CLOSURE LOCATED IN PROPOSED COMMUNICATIONS VAULT.

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| PLOT DATE = | | DATE - 3/21/2025 | REVISED - |

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

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 1 OF 32 SHEETS | STA. 1000+00.00 TO STA. 1023+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
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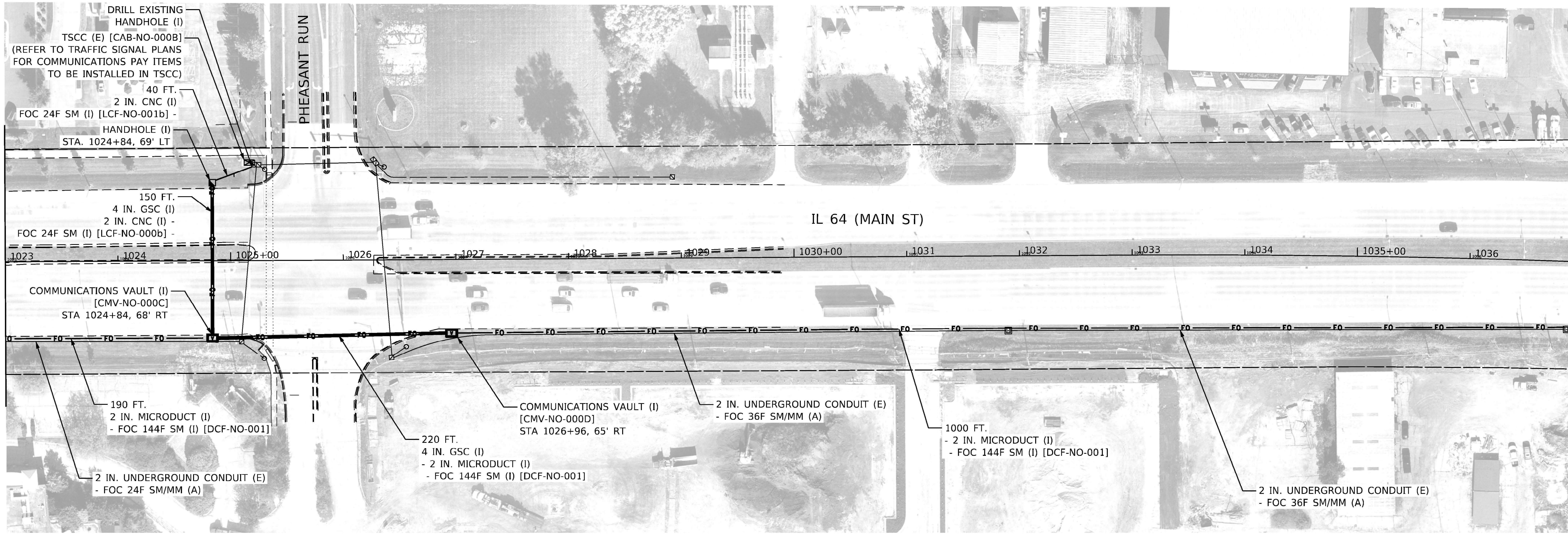
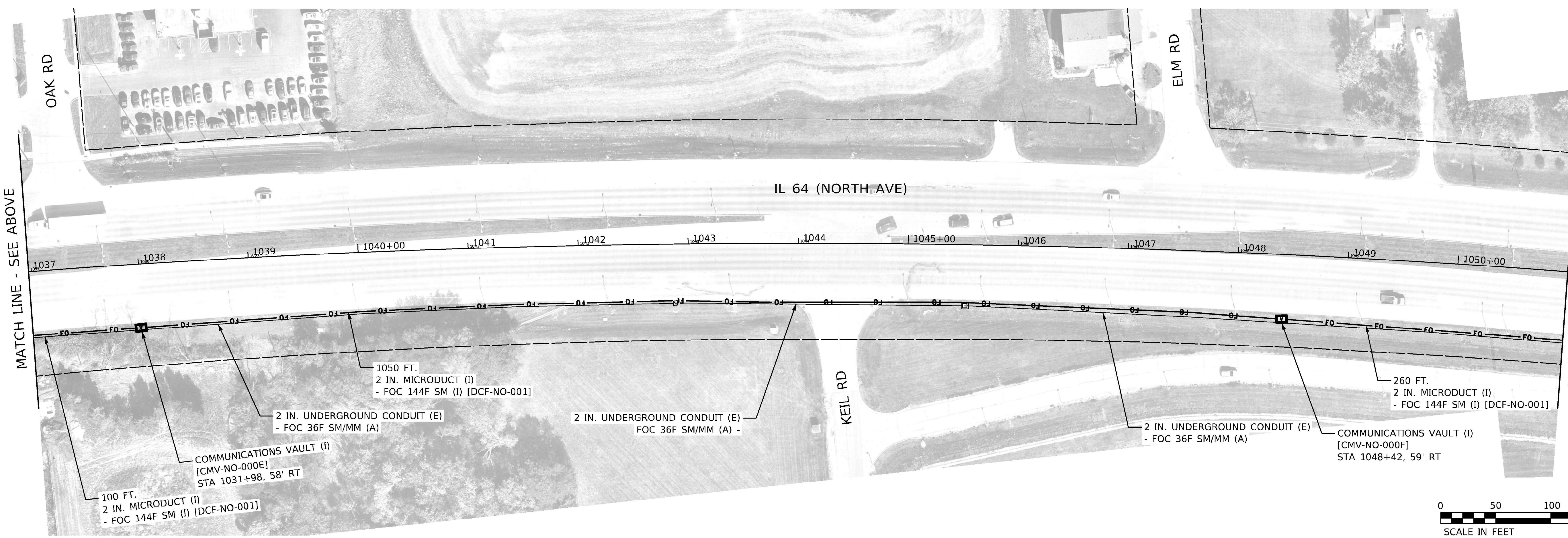
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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| PLOT DATE = | DATE - | REVISED - |

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

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 2 OF 32 SHEETS | STA. 1023+00.00 TO STA. 1051+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
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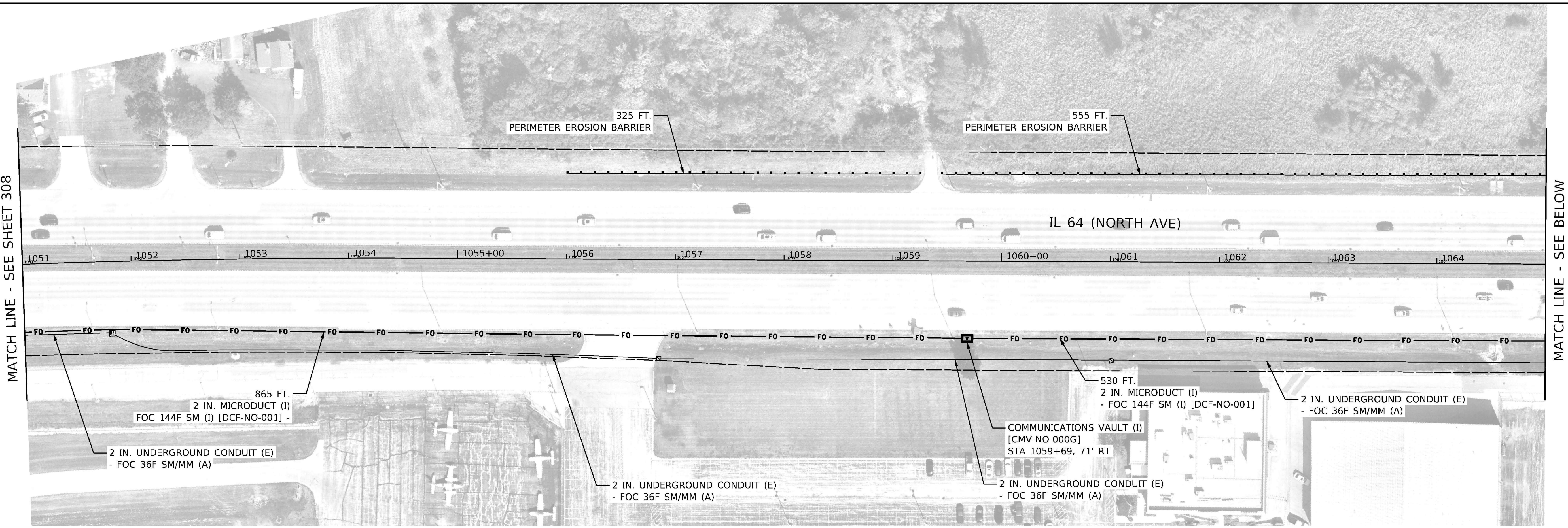
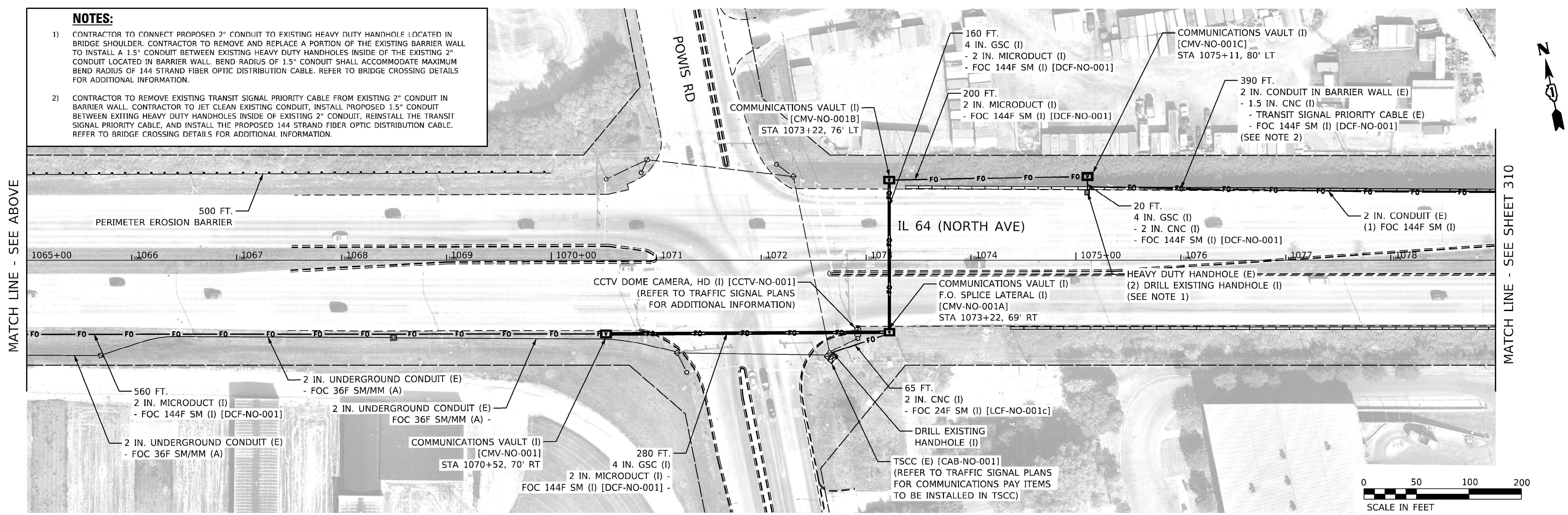
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

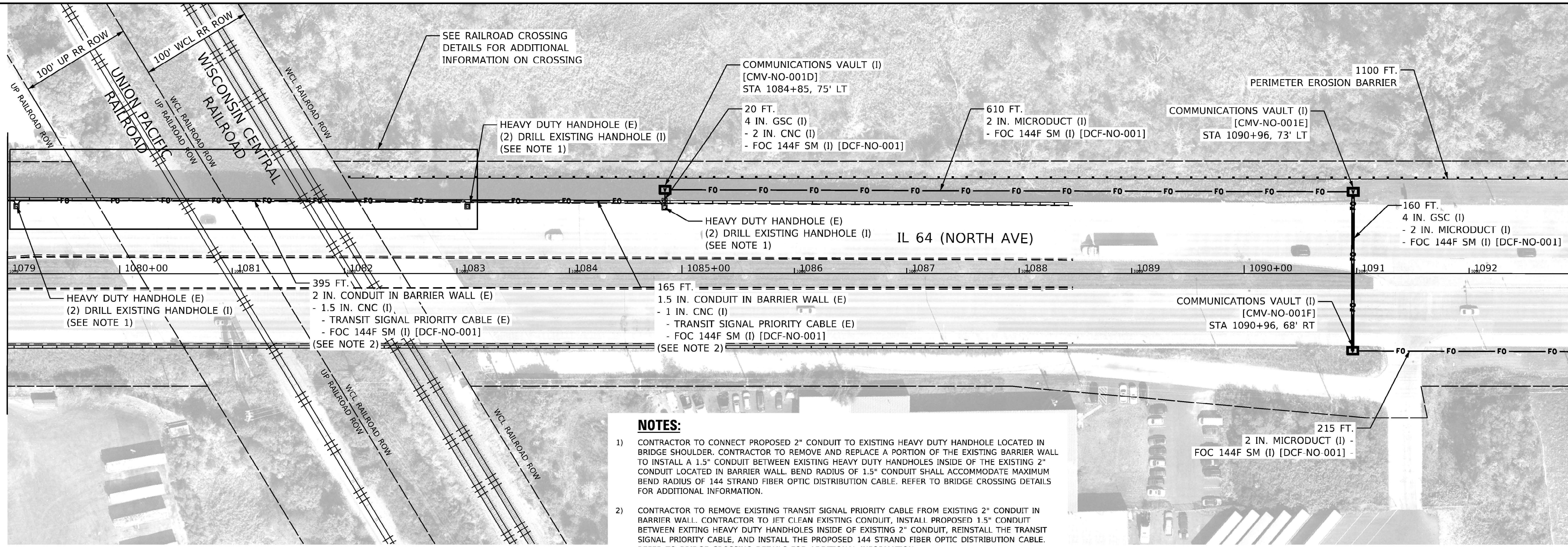



**NOTES:**

1) CONTRACTOR TO CONNECT PROPOSED 2" CONDUIT TO EXISTING HEAVY DUTY HANDHOLE LOCATED IN BRIDGE SHOULDER. CONTRACTOR TO REMOVE AND REPLACE A PORTION OF THE EXISTING BARRIER WALL TO INSTALL A 1.5" CONDUIT BETWEEN EXISTING HEAVY DUTY HANDHOLES INSIDE OF THE EXISTING 2" CONDUIT LOCATED IN BARRIER WALL. BEND RADIUS OF 1.5" CONDUIT SHALL ACCOMMODATE MAXIMUM BEND RADIUS OF 144 STRAND FIBER OPTIC DISTRIBUTION CABLE. REFER TO BRIDGE CROSSING DETAILS FOR ADDITIONAL INFORMATION.

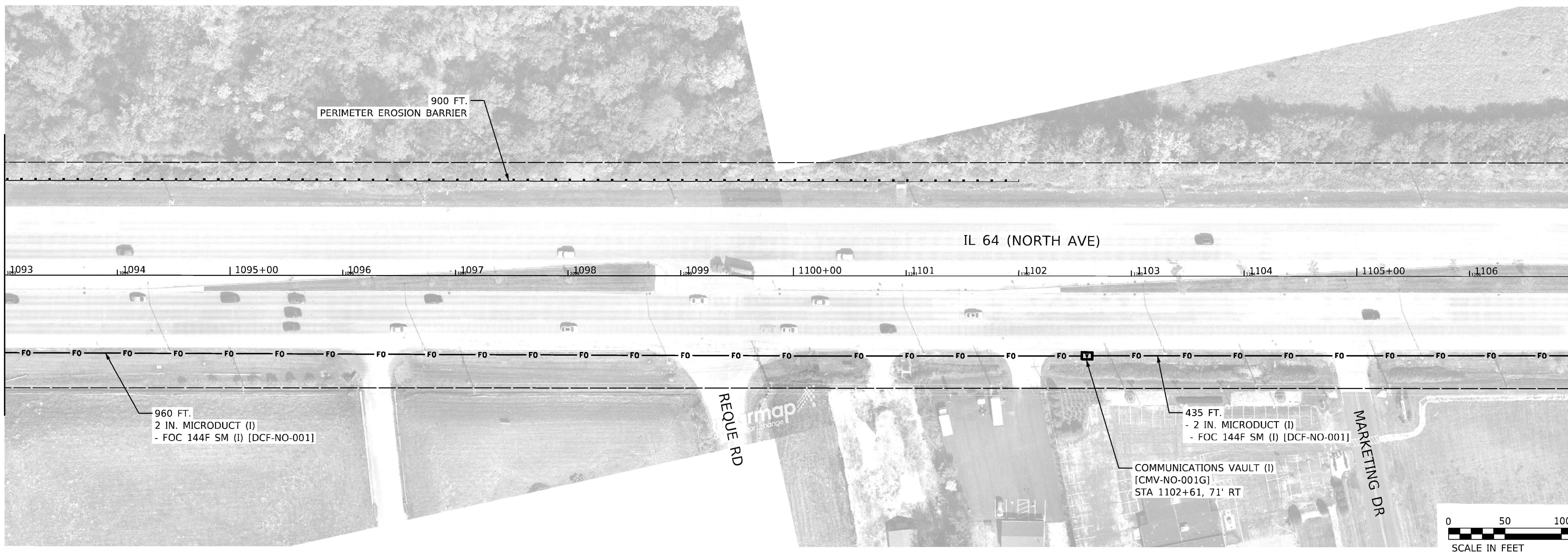
2) CONTRACTOR TO REMOVE EXISTING TRANSIT SIGNAL PRIORITY CABLE FROM EXISTING 2" CONDUIT IN BARRIER WALL. CONTRACTOR TO JET CLEAN EXISTING CONDUIT, INSTALL PROPOSED 1.5" CONDUIT BETWEEN EXITING HEAVY DUTY HANDHOLES INSIDE OF EXISTING 2" CONDUIT, REINSTALL THE TRANSIT SIGNAL PRIORITY CABLE, AND INSTALL THE PROPOSED 144 STRAND FIBER OPTIC DISTRIBUTION CABLE. REFER TO BRIDGE CROSSING DETAILS FOR ADDITIONAL INFORMATION.




## NOTES:

1) CONTRACTOR TO CONNECT PROPOSED 2" CONDUIT TO EXISTING HEAVY DUTY HANDHOLE LOCATED IN BRIDGE SHOULDER. CONTRACTOR TO REMOVE AND REPLACE A PORTION OF THE EXISTING BARRIER WALL TO INSTALL A 1.5" CONDUIT BETWEEN EXISTING HEAVY DUTY HANDHOLES INSIDE OF THE EXISTING 2" CONDUIT LOCATED IN BARRIER WALL. BEND RADIUS OF 1.5" CONDUIT SHALL ACCOMMODATE MAXIMUM BEND RADIUS OF 144 STRAND FIBER OPTIC DISTRIBUTION CABLE. REFER TO BRIDGE CROSSING DETAILS FOR ADDITIONAL INFORMATION.

2) CONTRACTOR TO REMOVE EXISTING TRANSIT SIGNAL PRIORITY CABLE FROM EXISTING 2" CONDUIT IN BARRIER WALL. CONTRACTOR TO JET CLEAN EXISTING CONDUIT, INSTALL PROPOSED 1.5" CONDUIT BETWEEN EXITING HEAVY DUTY HANDHOLES INSIDE OF EXISTING 2" CONDUIT, REINSTALL THE TRANSIT SIGNAL PRIORITY CABLE, AND INSTALL THE PROPOSED 144 STRAND FIBER OPTIC DISTRIBUTION CABLE. REFER TO BRIDGE CROSSING DETAILS FOR ADDITIONAL INFORMATION.

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| | DRAWN - JJT | REVISED - | |
| PLOT SCALE = | CHECKED - MJR | REVISED - | |
| PLOT DATE = | DATE - 3/21/2025 | REVISED - | |

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

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 4 OF 32 SHEETS | STA. 1079+00.00 TO STA. 1107+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 310 |
| | | CONTRACT NO. 62N33 | | |
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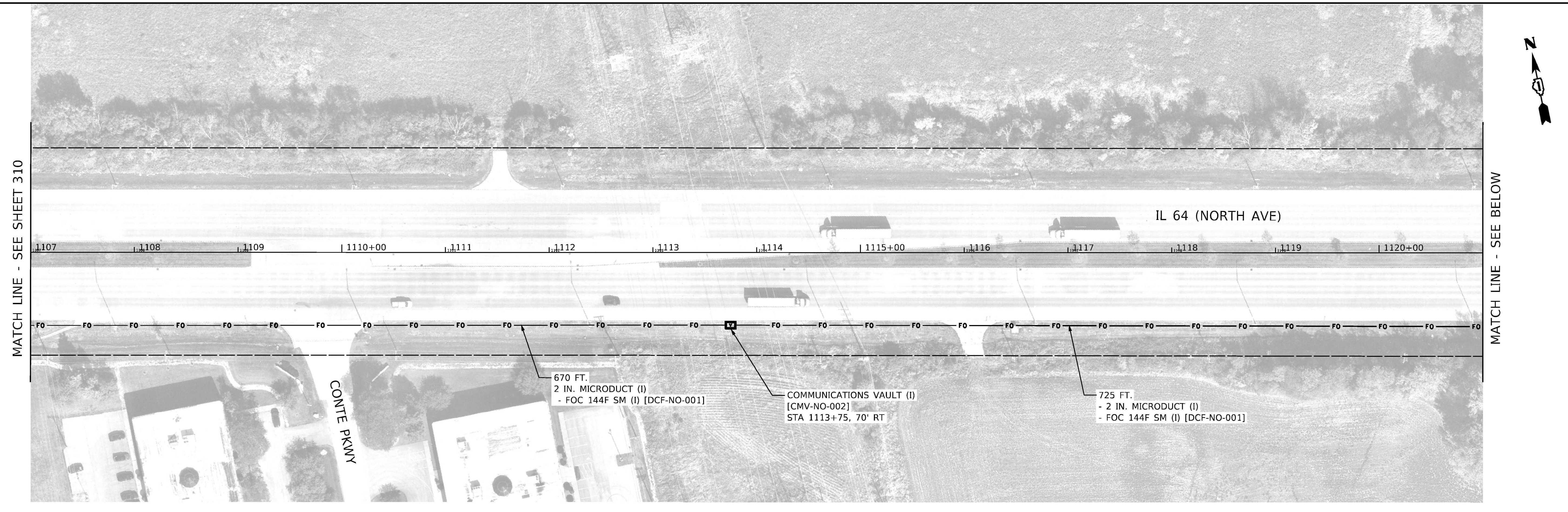


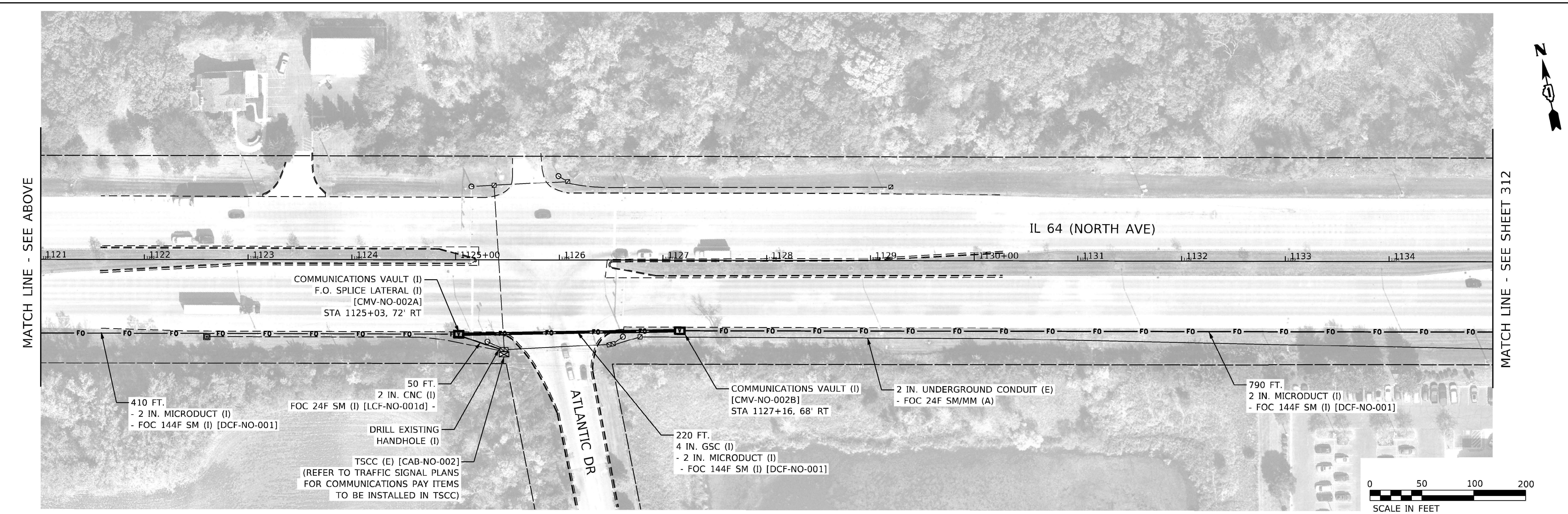


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| | DRAWN | REVISED - | |
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| PLOT DATE = | DATE - | REVISED - | |

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

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 5 OF 32 SHEETS | STA. 1107+00.00 TO STA. 1135+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
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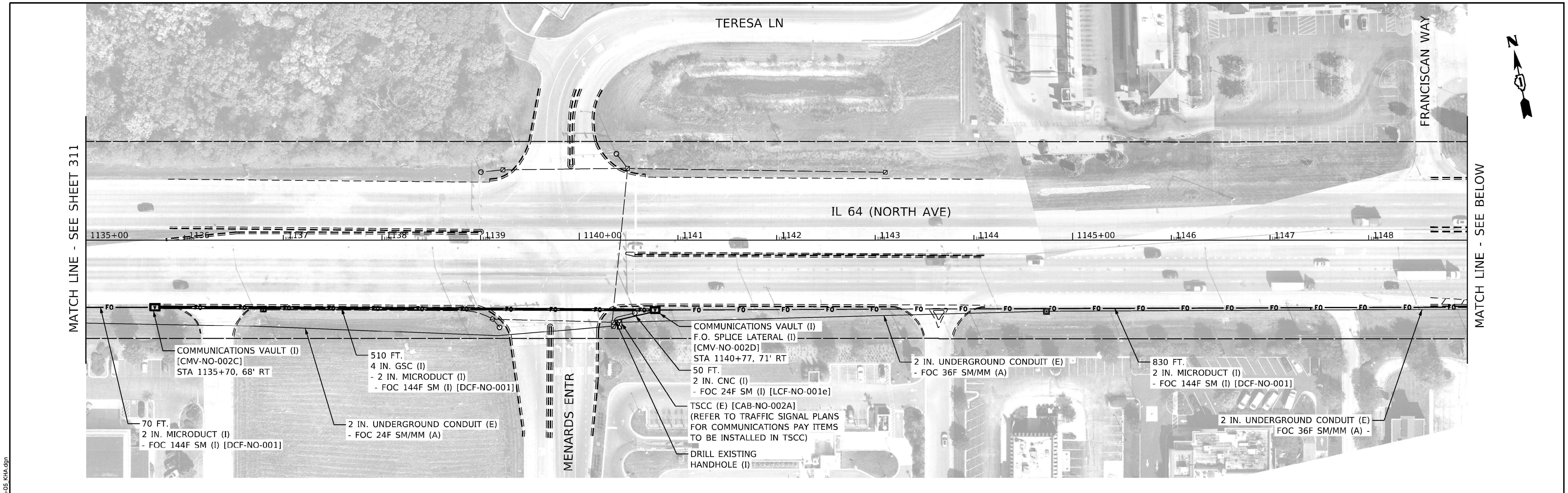
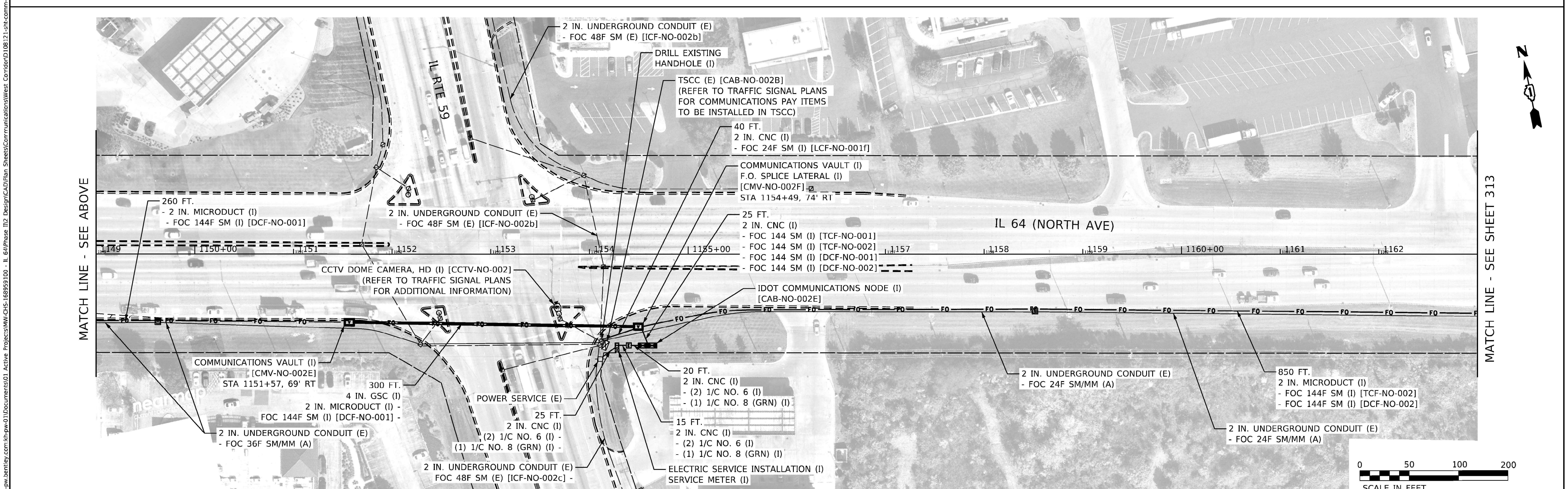
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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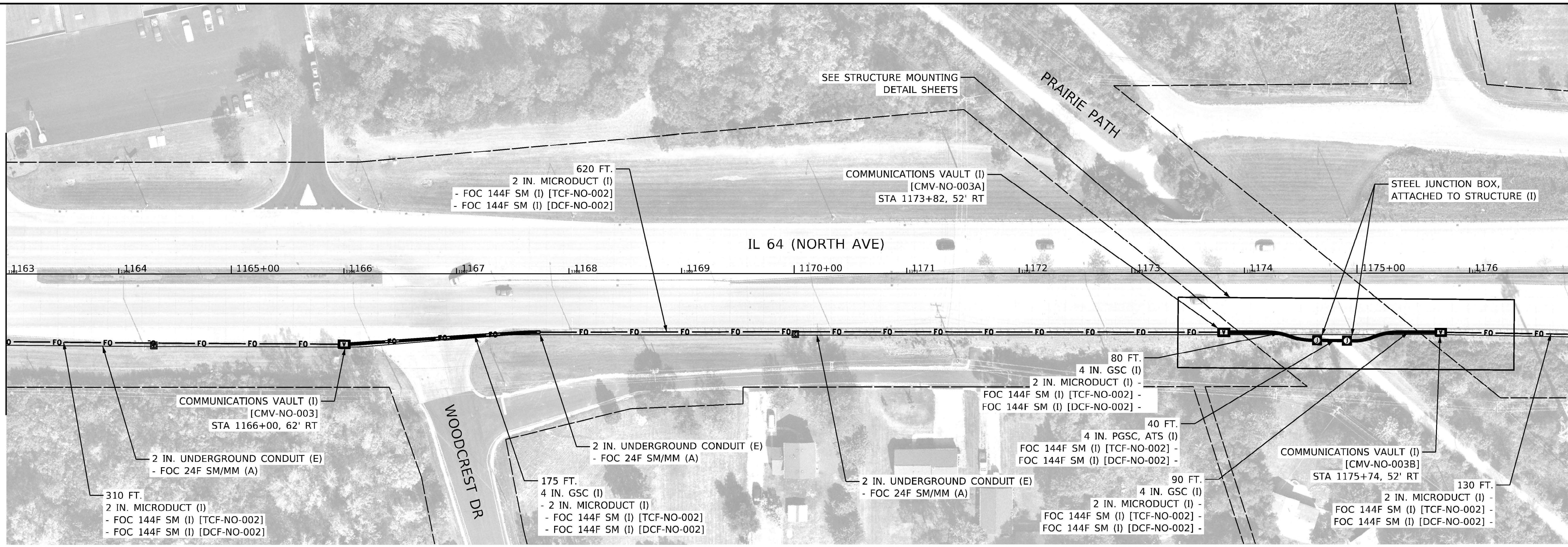
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

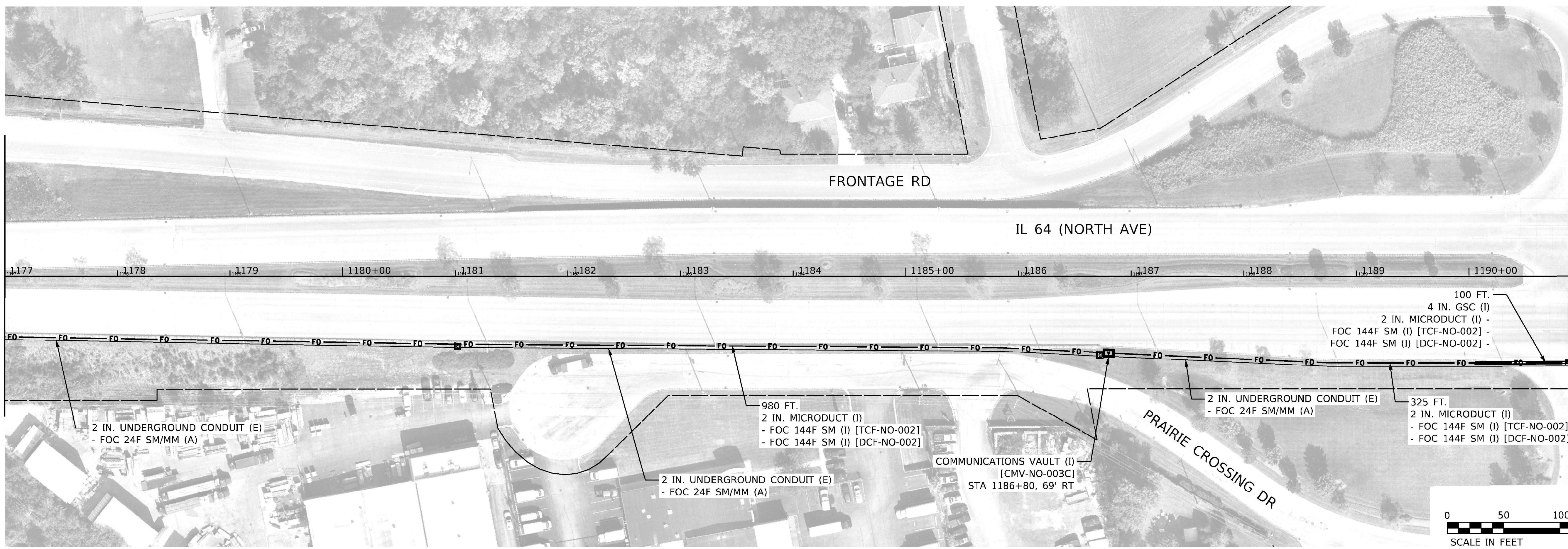
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 6 OF 32 SHEETS | STA. 1135+00.00 TO STA. 1163+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 312 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |

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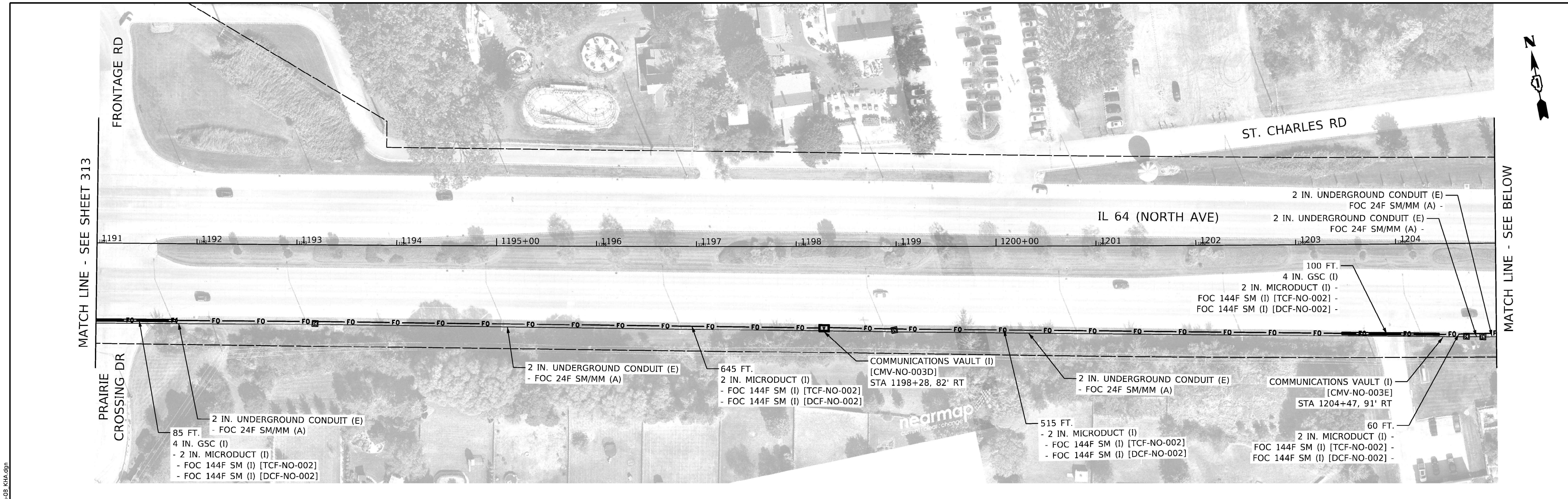
| | DRAWN - | REVISED - | |
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

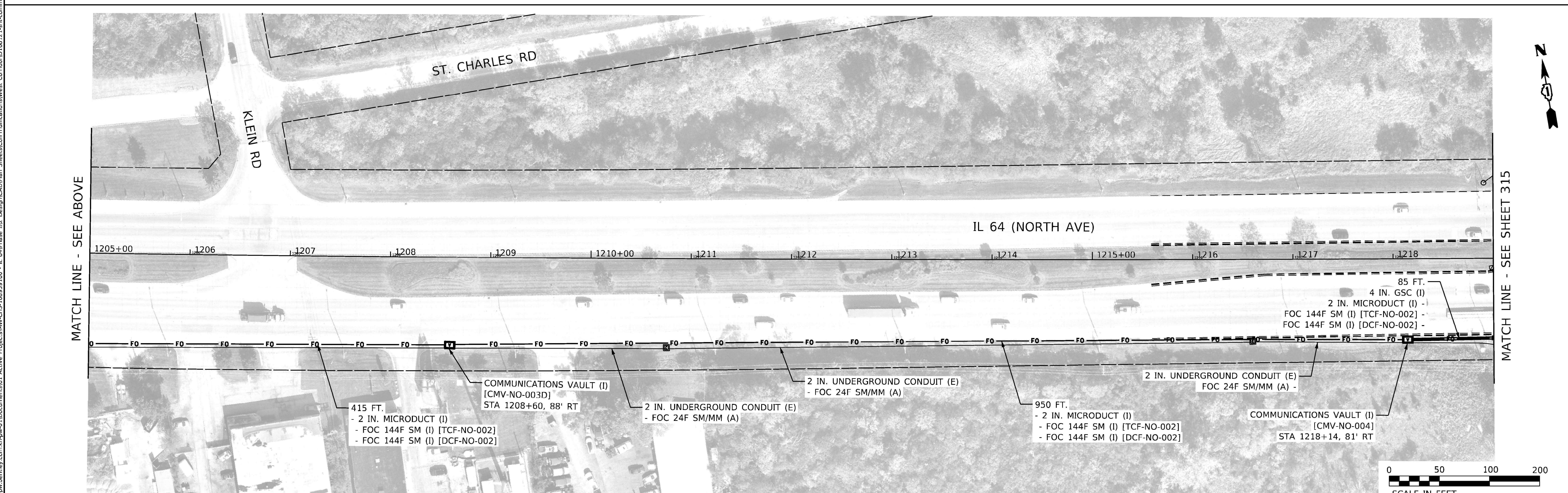
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 7 OF 32 SHEETS | STA. 1163+00.00 TO STA. 1191+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 313 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |

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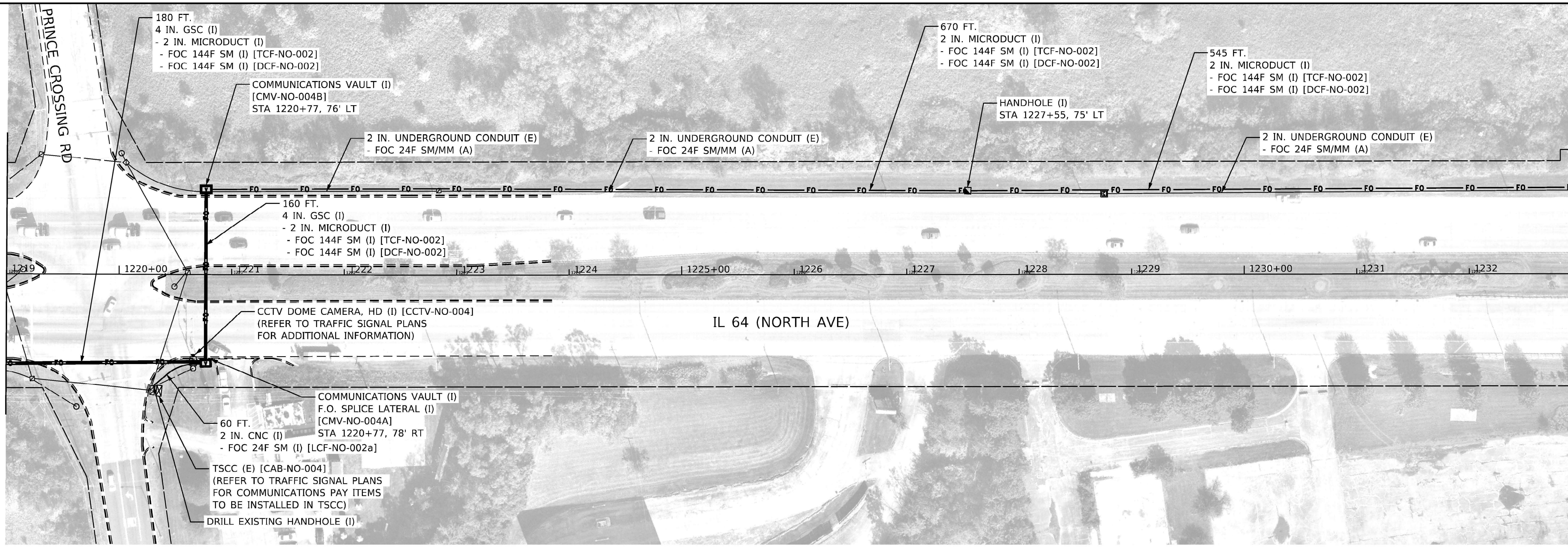
| | DRAWN | REVISED - | |
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

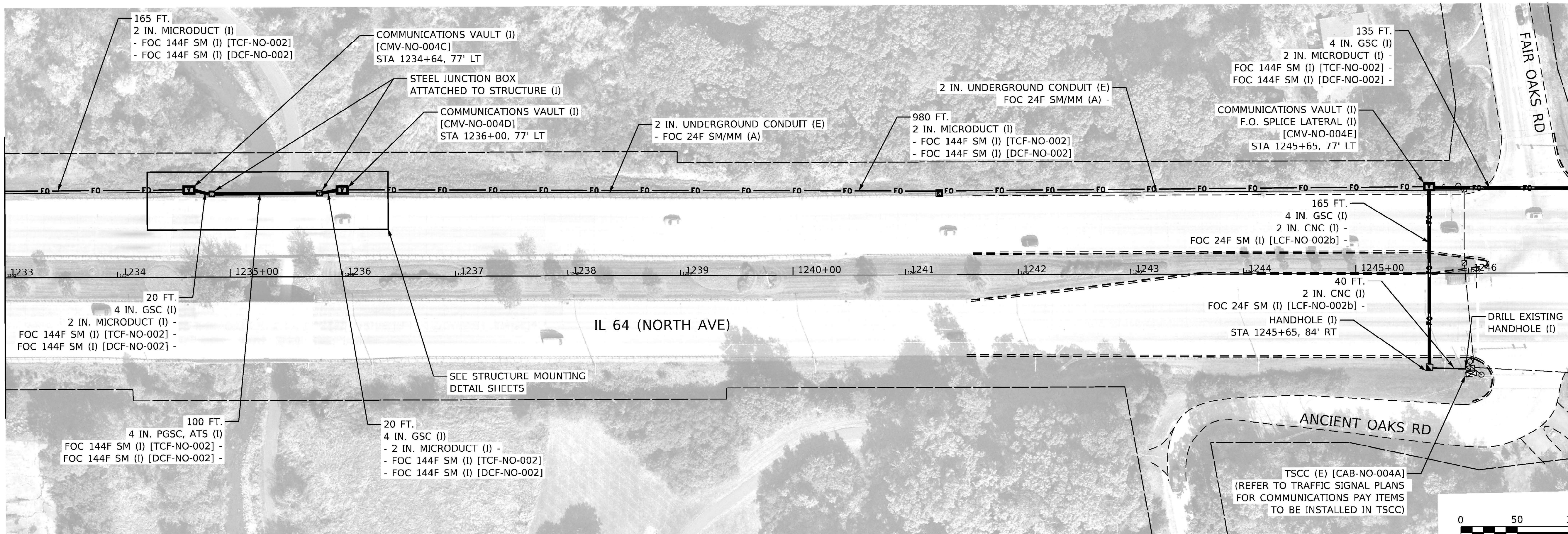
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 8 OF 32 SHEETS | STA. 1191+00.00 TO STA. 1219+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 314 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

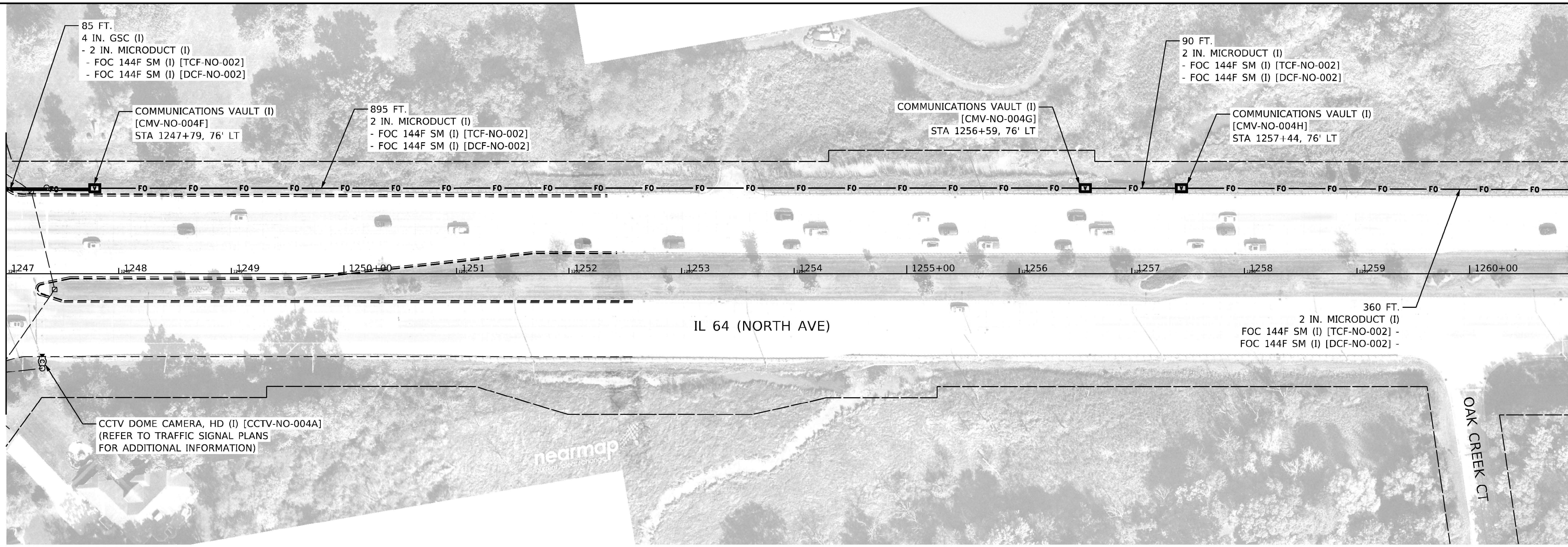
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 9 OF 32 SHEETS | STA. 1219+00.00 TO STA. 1247+00.00

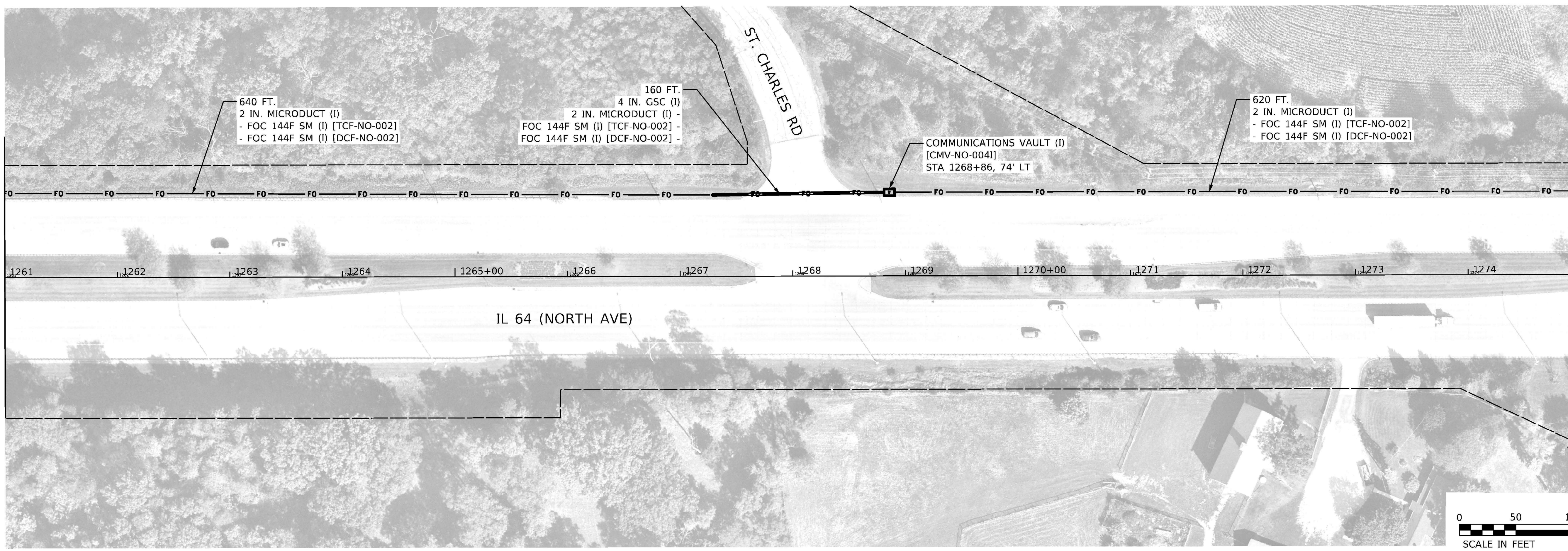
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 315 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |

MATCH LINE - SEE SHEET 315




MATCH LINE - SEE BELOW

MATCH LINE - SEE ABOVE




MATCH LINE - SEE SHEET 317

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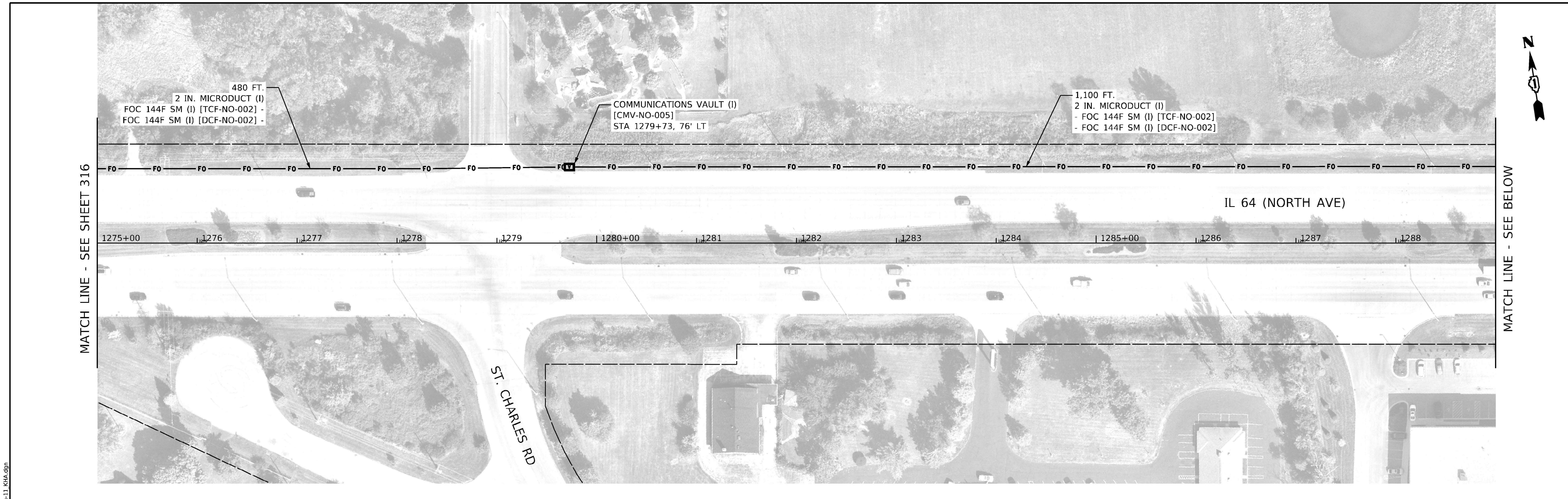
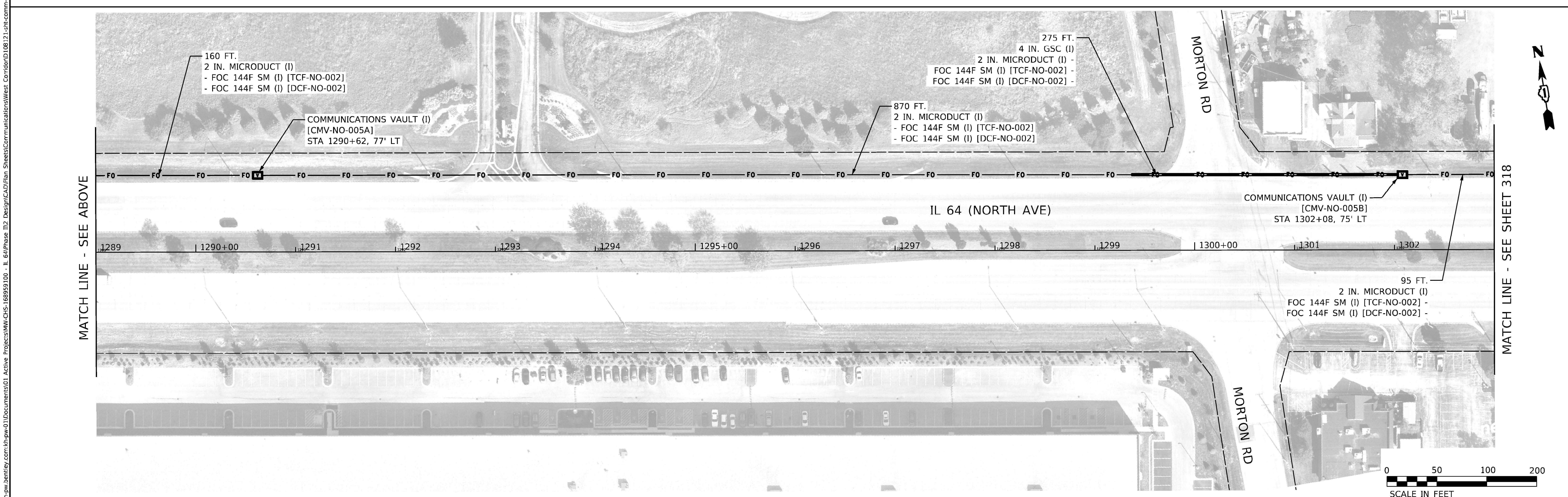
| | | DRAWN - | REVISED - | | |
| | PLOT SCALE = | CHECKED - | REVISED - | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: 1" = 50' SHEET 10 OF 32 SHEETS STA. 1247+00.00 TO STA. 1275+00.00 |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 316 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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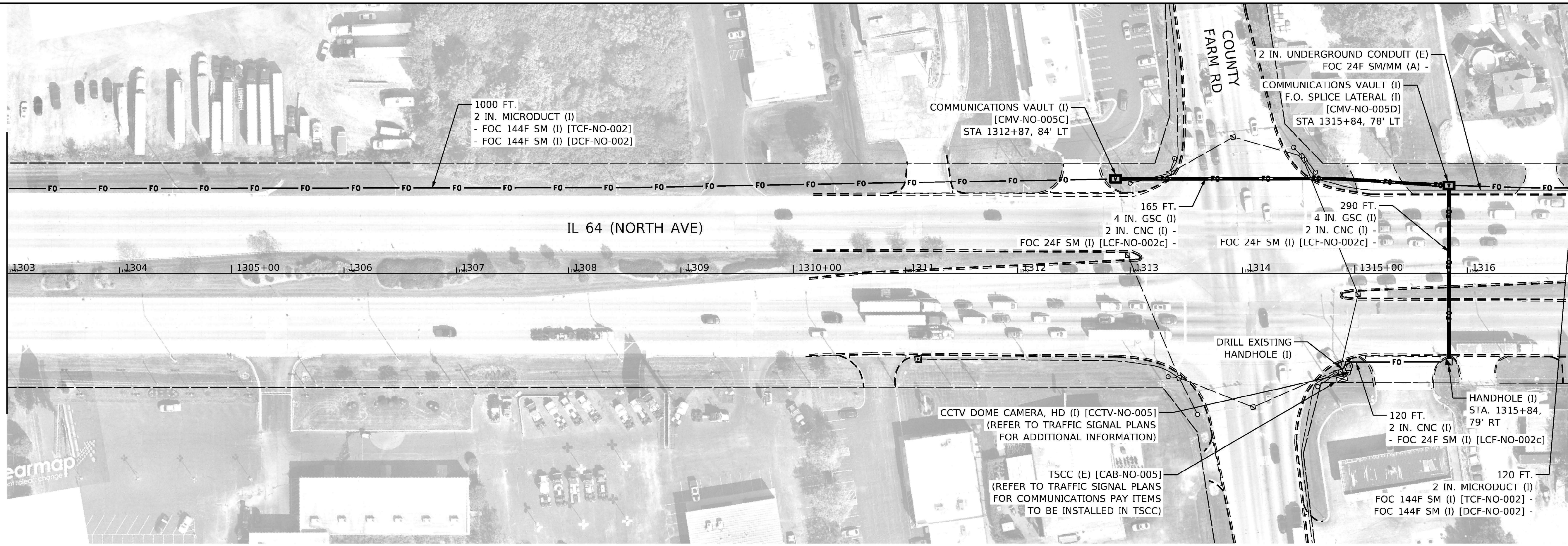
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

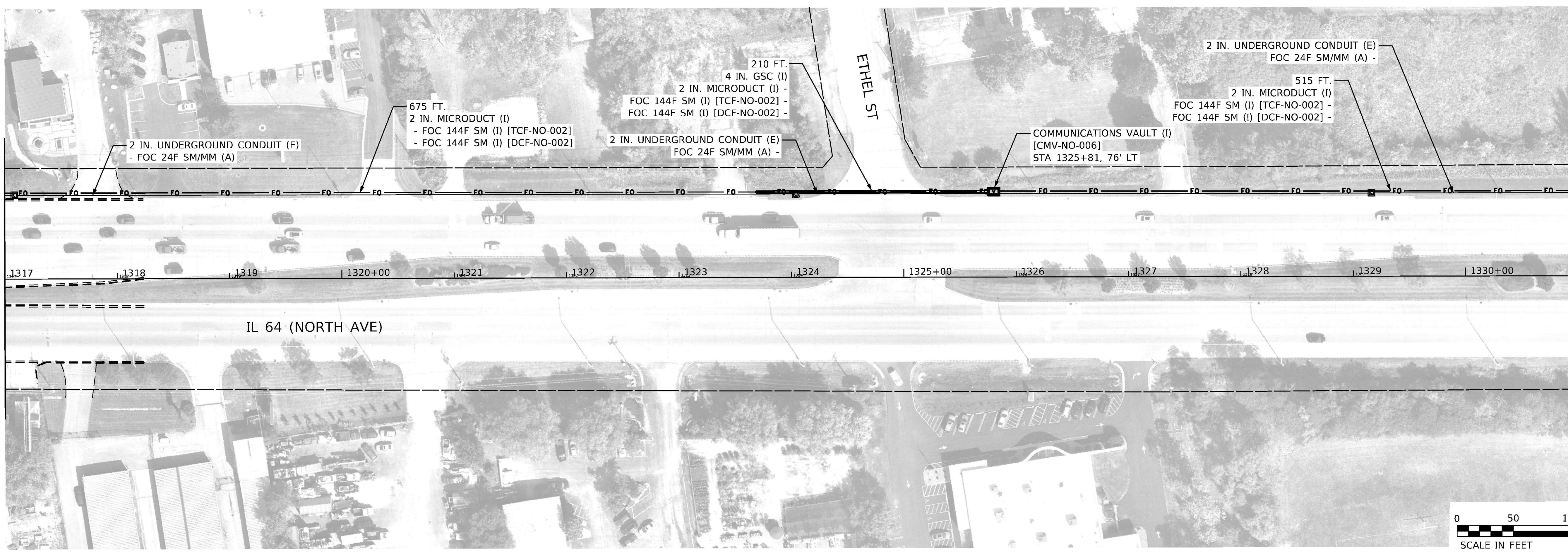
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 11 OF 32 SHEETS | STA. 1275+00.00 TO STA. 1303+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 317 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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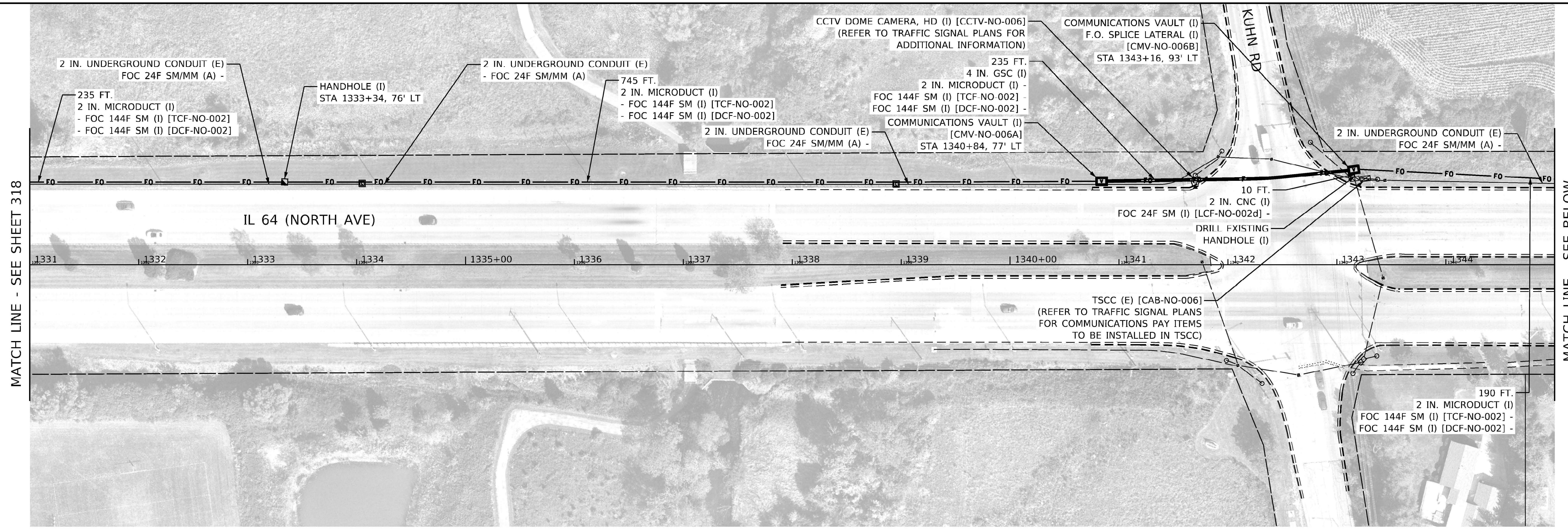
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

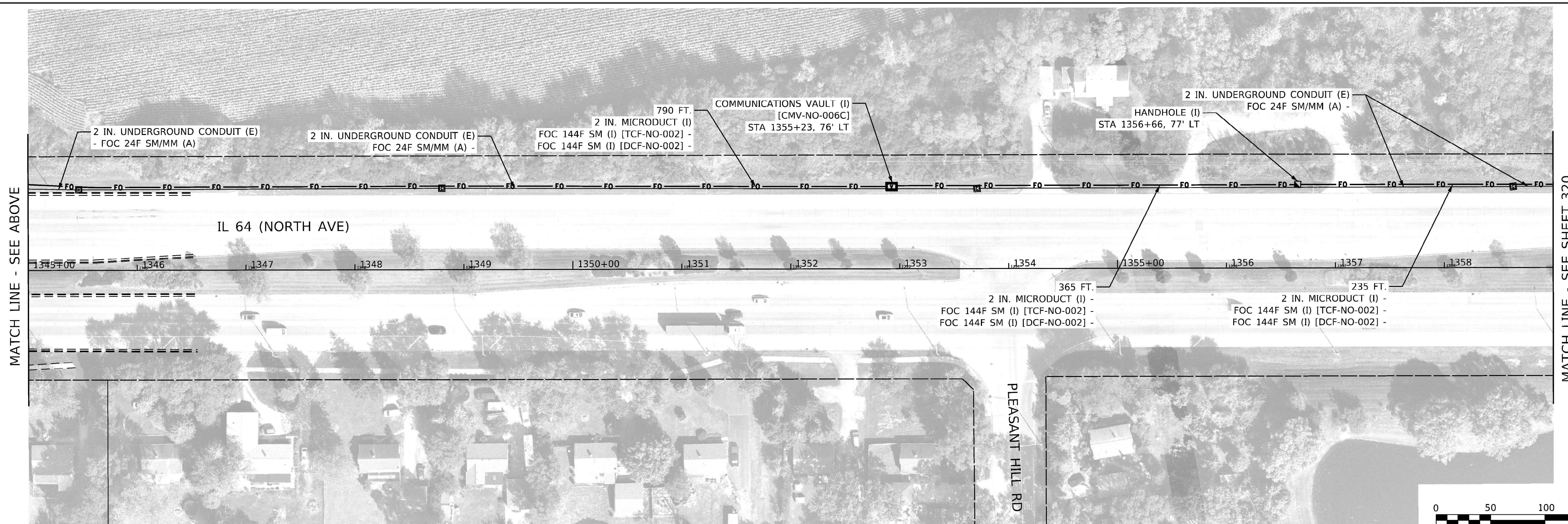
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 12 OF 32 SHEETS | STA. 1303+00.00 TO STA. 1331+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 318 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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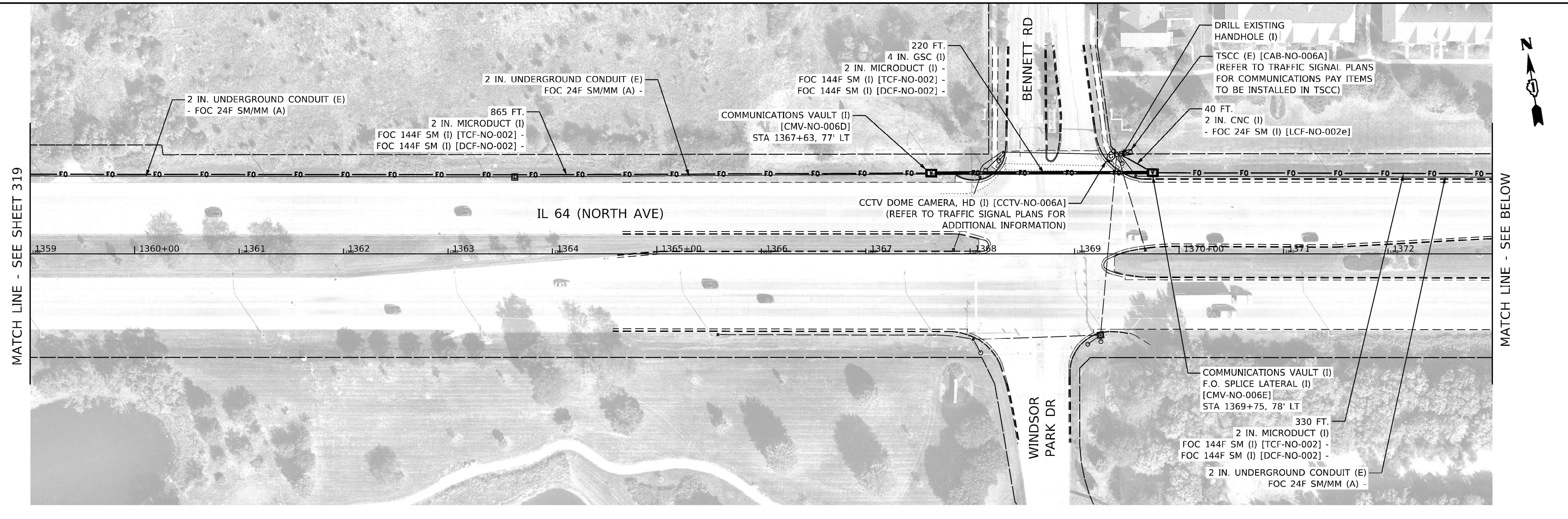
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

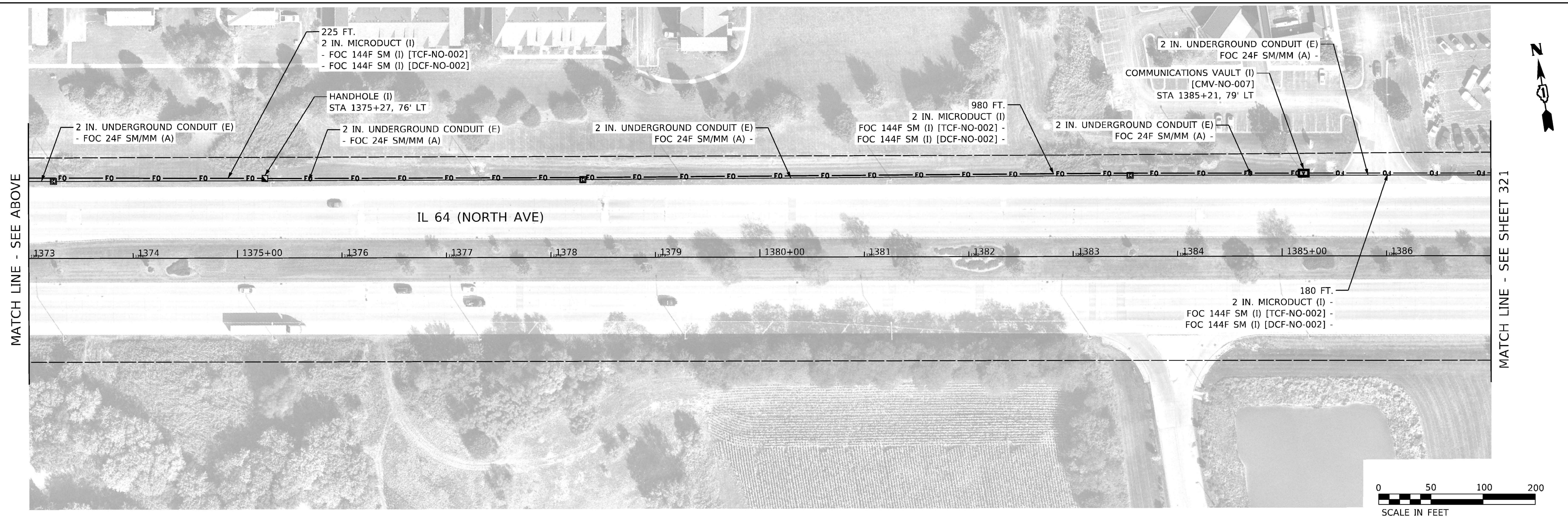
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 13 OF 32 SHEETS | STA. 1331+00.00 TO STA. 1359+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 319 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |

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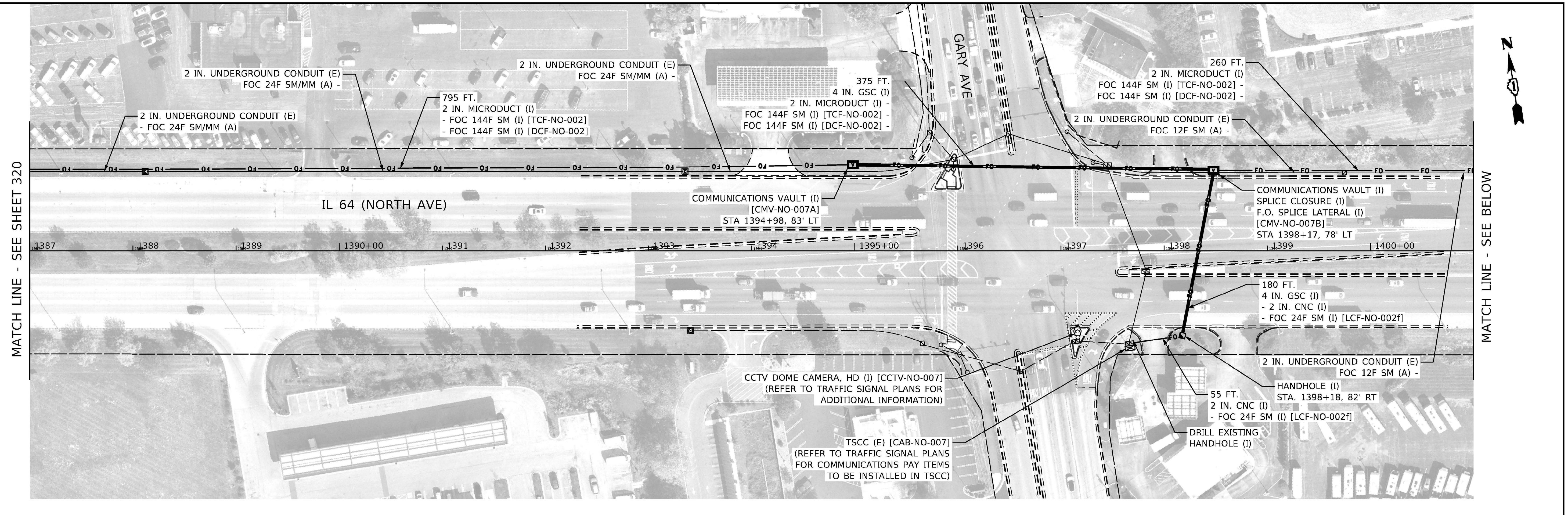
| | DRAWN - | REVISED - | |
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

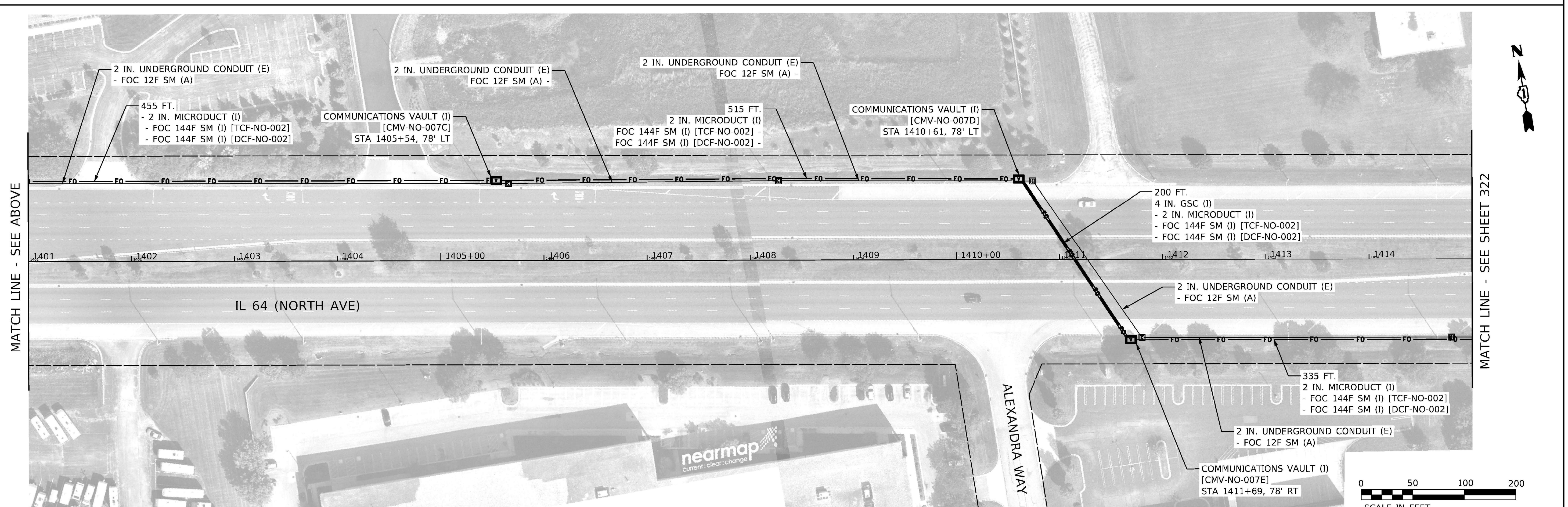
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 14 OF 32 SHEETS | STA. 1359+00.00 TO STA. 1387+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 320 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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|---|---|---|---|---|---|---|---|---|---|---|
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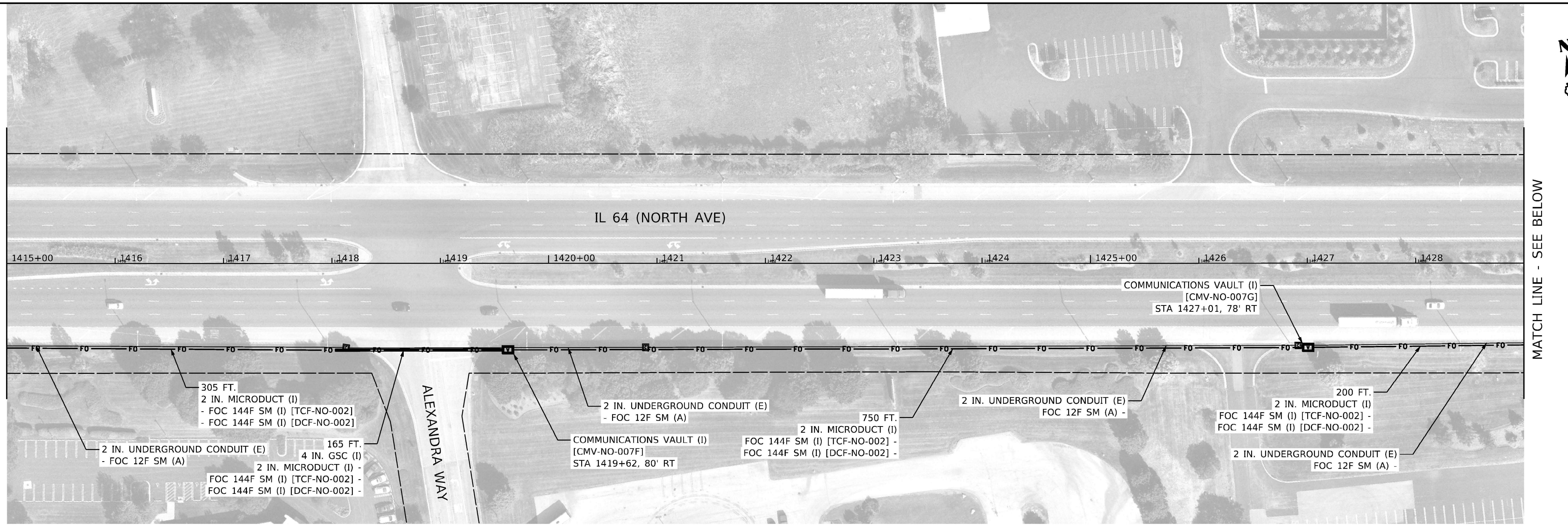
| | PLOT SCALE = | CHECKED - | REVISED - | | SCALE: 1" = 50' | SHEET 15 OF 32 SHEETS | STA. 1387+00.00 TO STA. 1415+00.00 | CONTRACT NO. 62N33 | | |
| | PLOT DATE = | DATE - | REVISED - | | | ILLINOIS | FED. AID PROJECT | | | |





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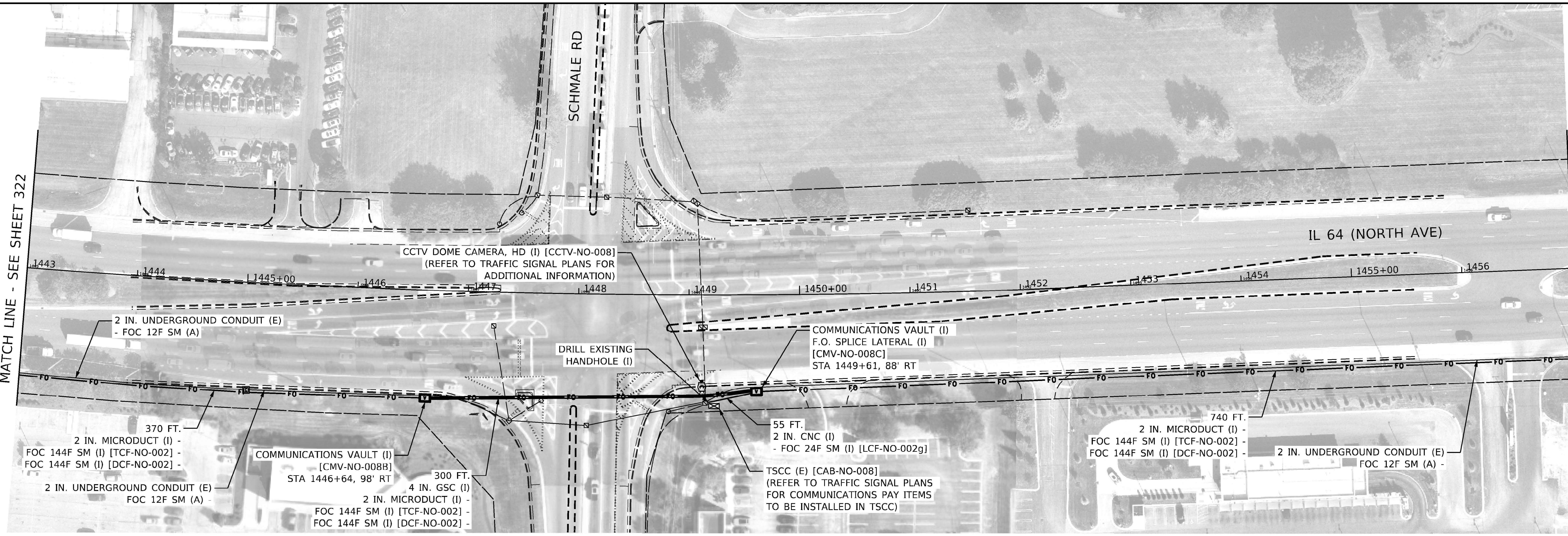
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

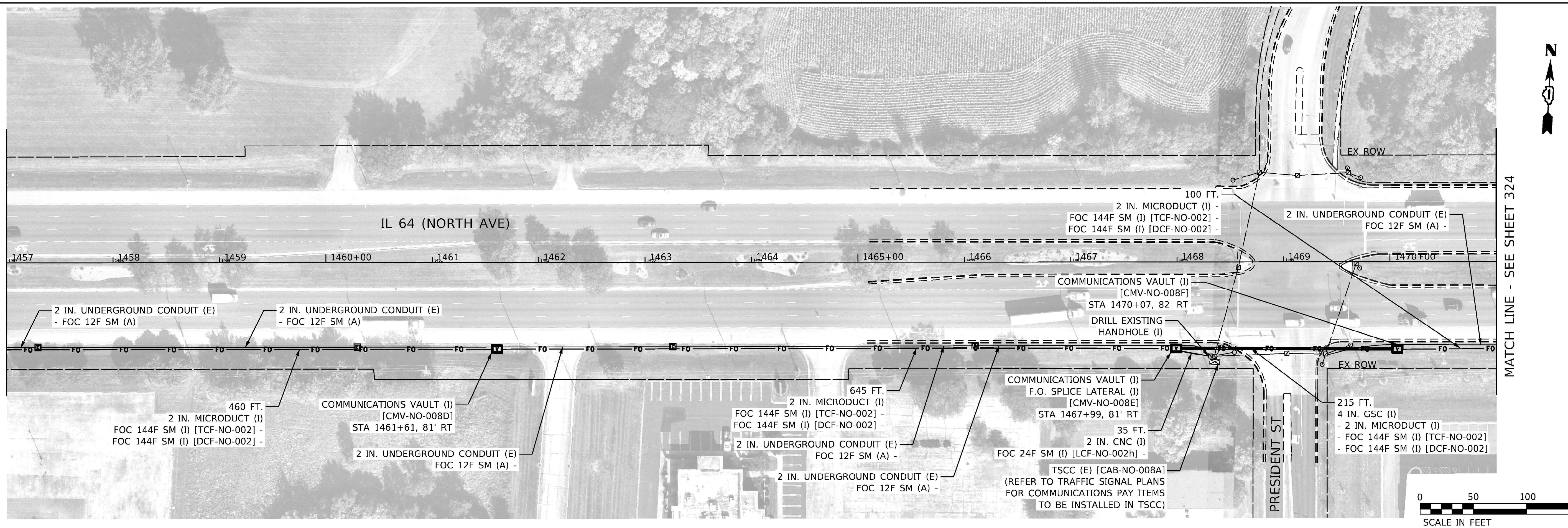
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 16 OF 32 SHEETS | STA. 1415+00.00 TO STA. 1443+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 322 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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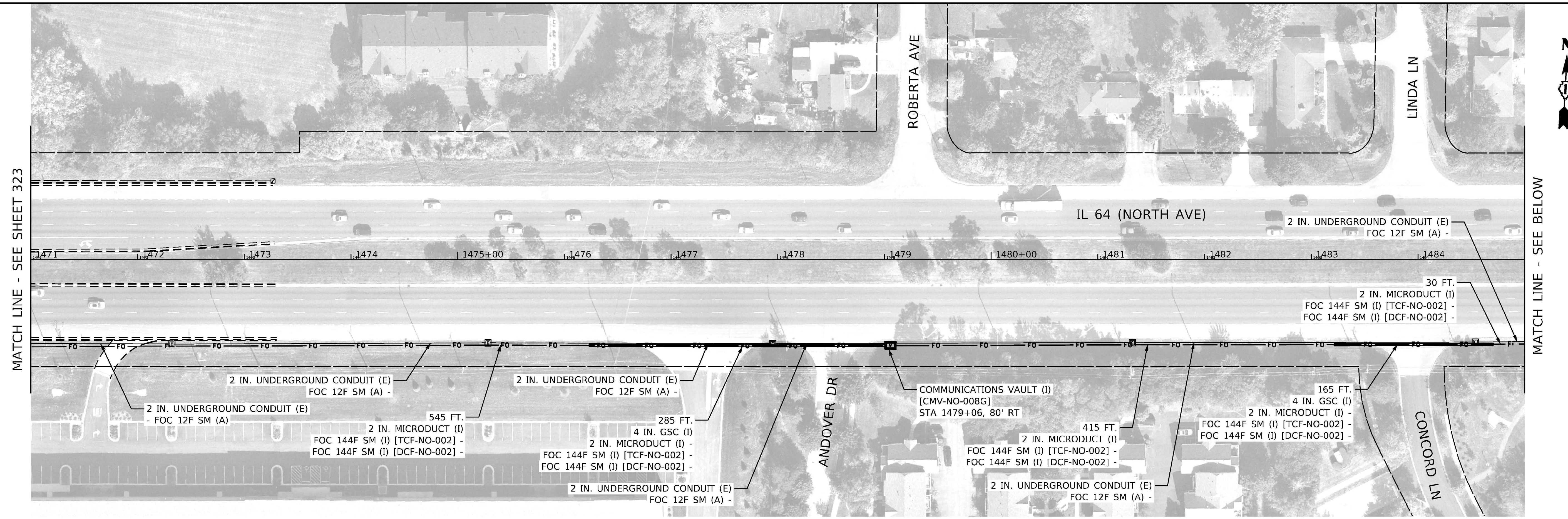
| | DRAWN | REVISED - | |
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

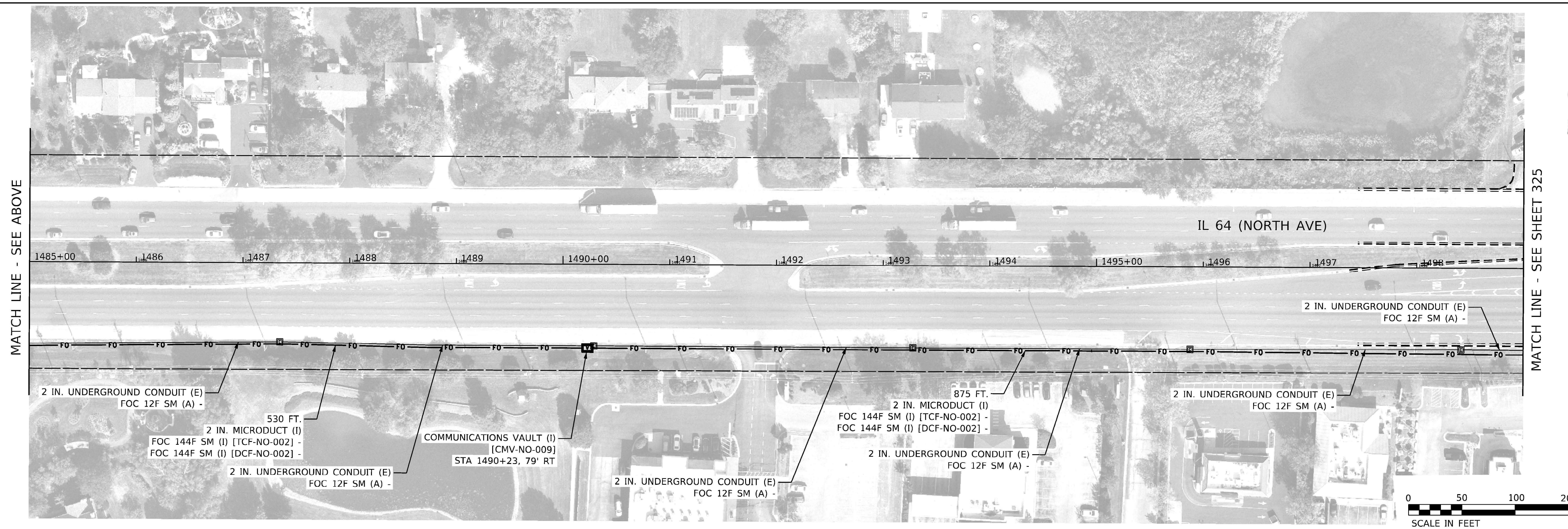
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 17 OF 32 SHEETS | STA. 1443+00.00 TO STA. 1471+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 323 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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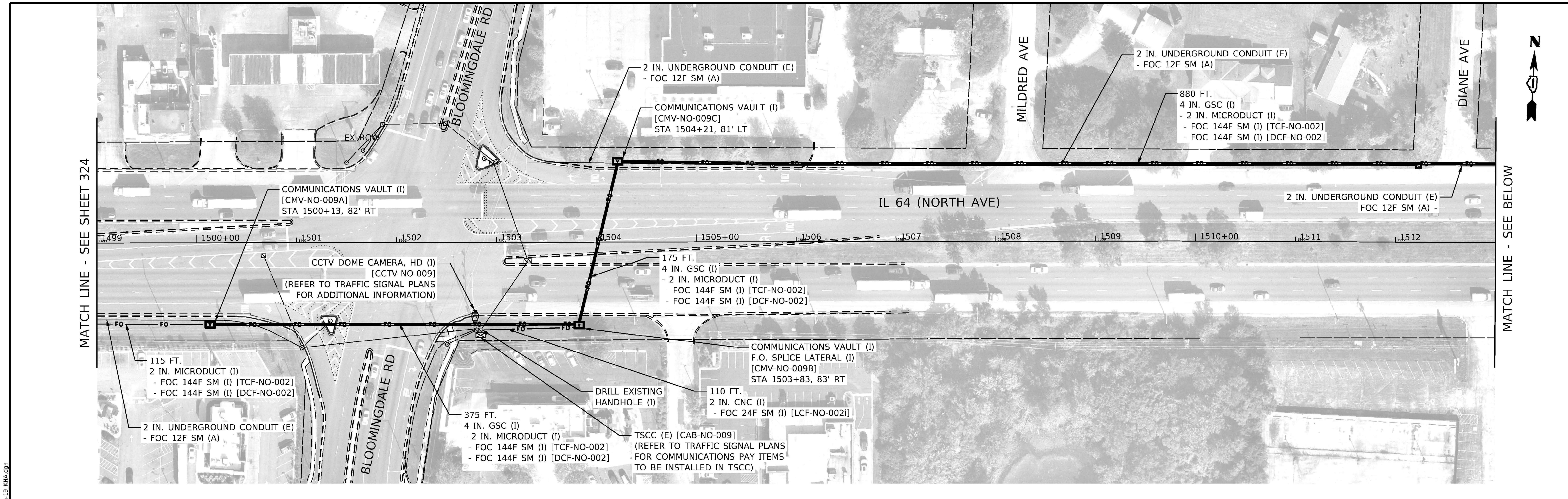
| | DRAWN | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

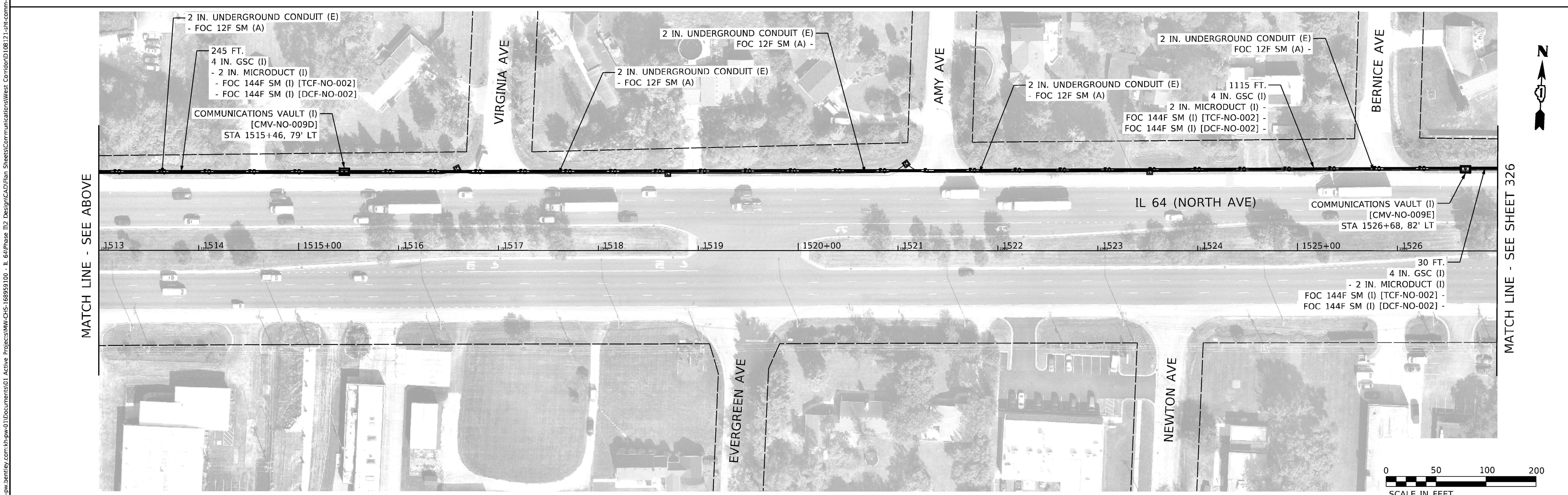
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 18 OF 32 SHEETS | STA. 1471+00.00 TO STA. 1499+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 324 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |

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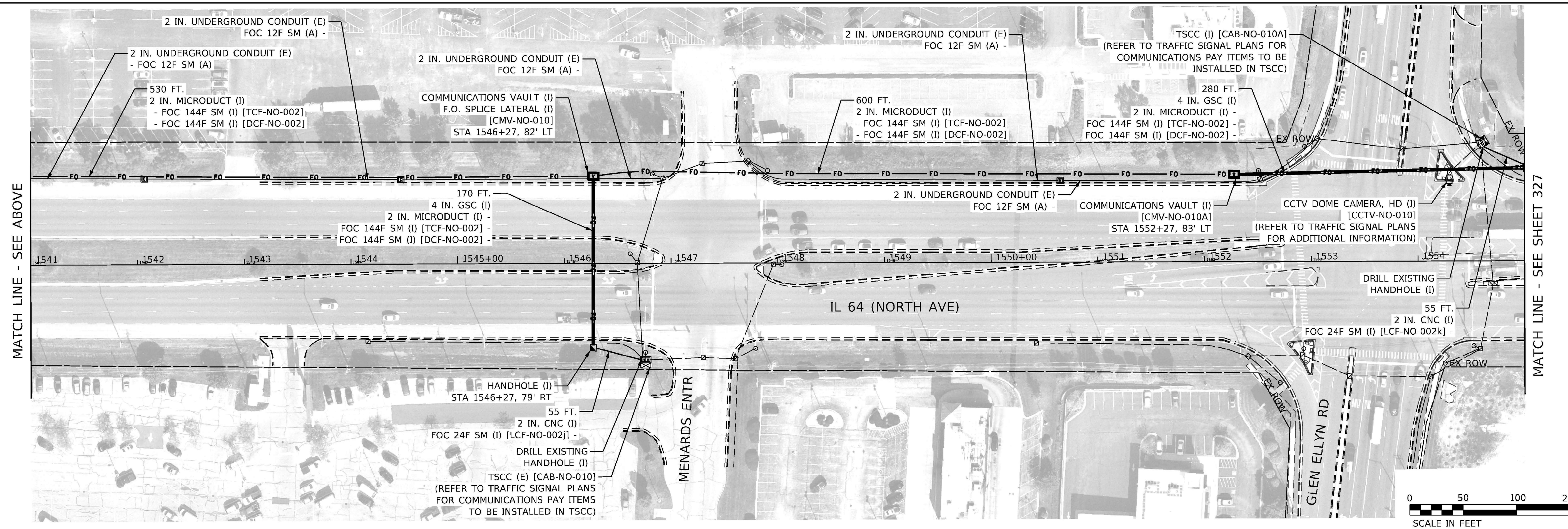
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

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

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 19 OF 32 SHEETS | STA. 1499+00.00 TO STA. 1527+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 325 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |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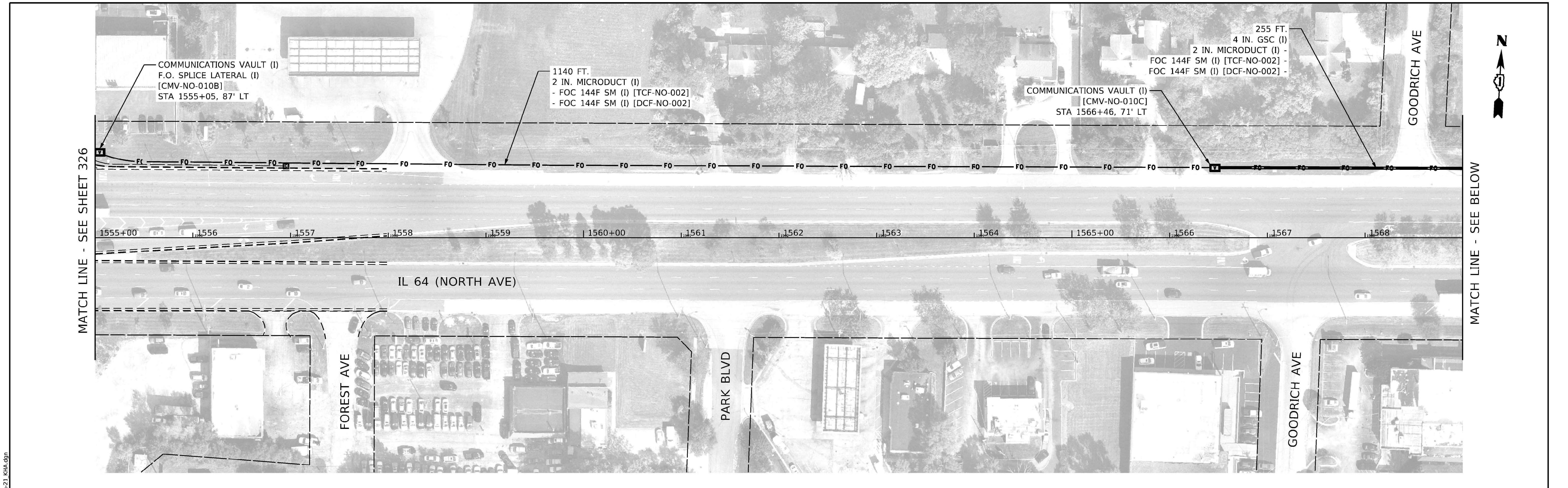
| | DRAWN | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

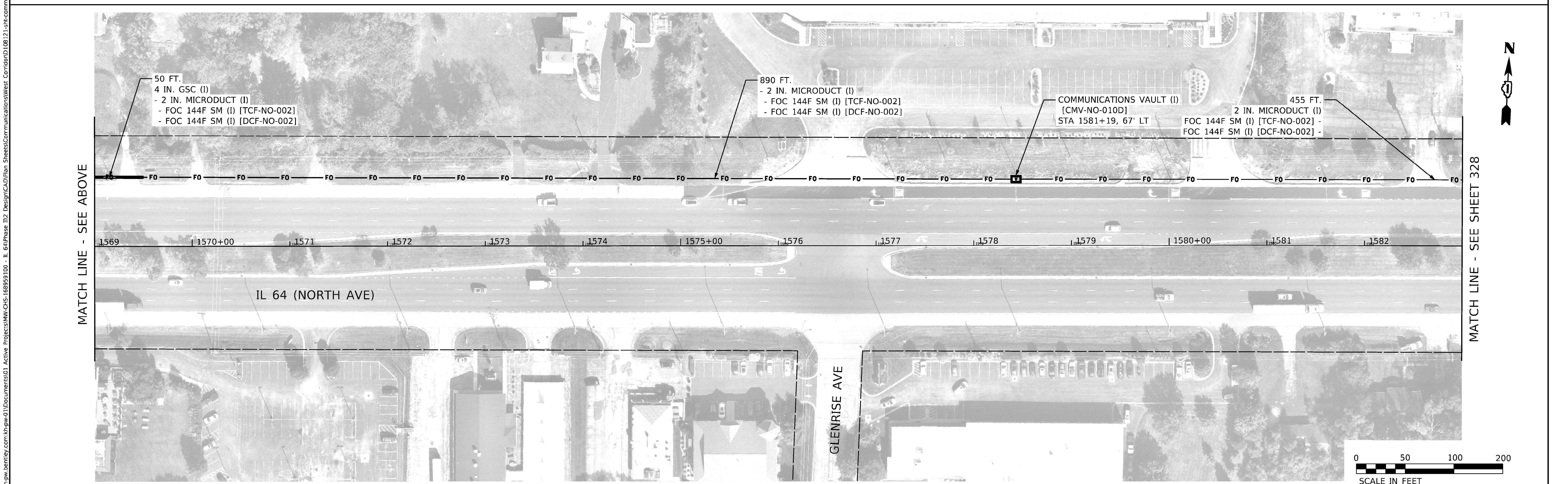
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 20 OF 32 SHEETS | STA. 1527+00.00 TO STA. 1555+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 326 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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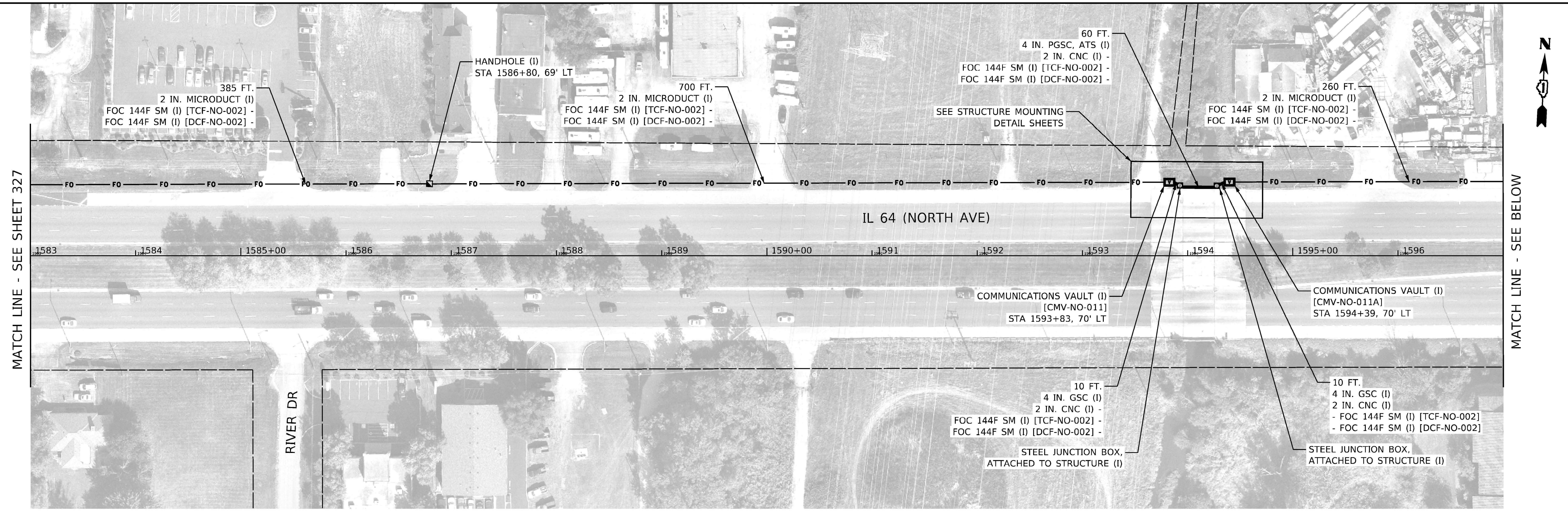
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

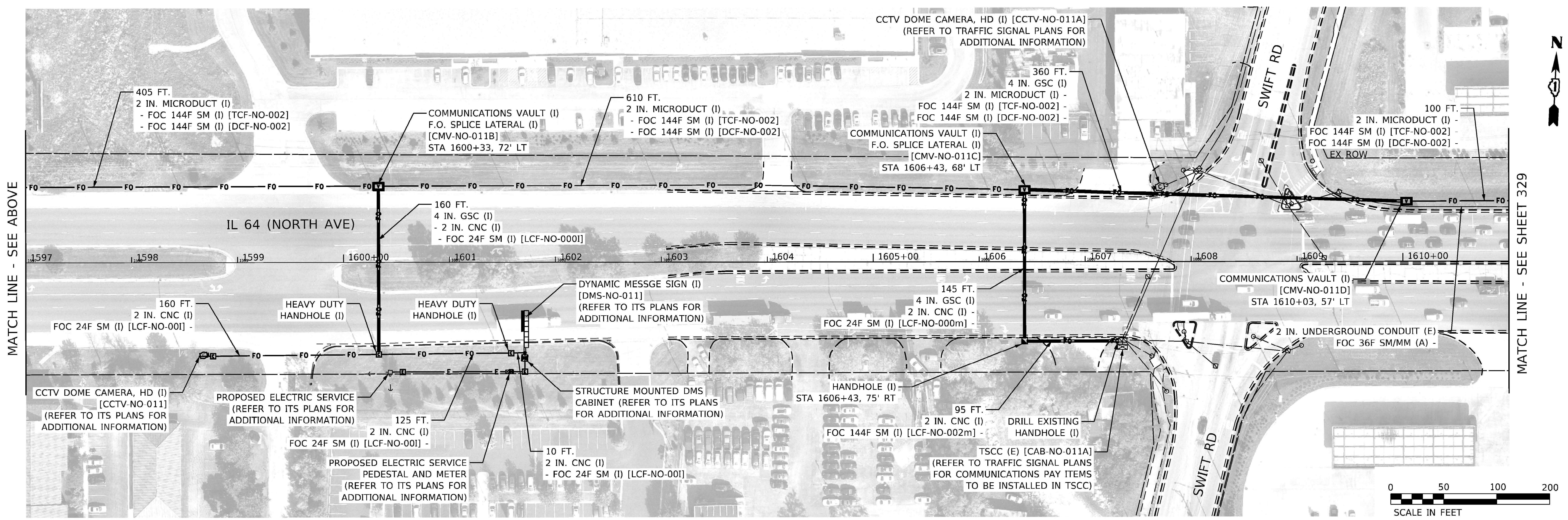
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 21 OF 32 SHEETS | STA. 1555+00.00 TO STA. 1583+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 327 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |

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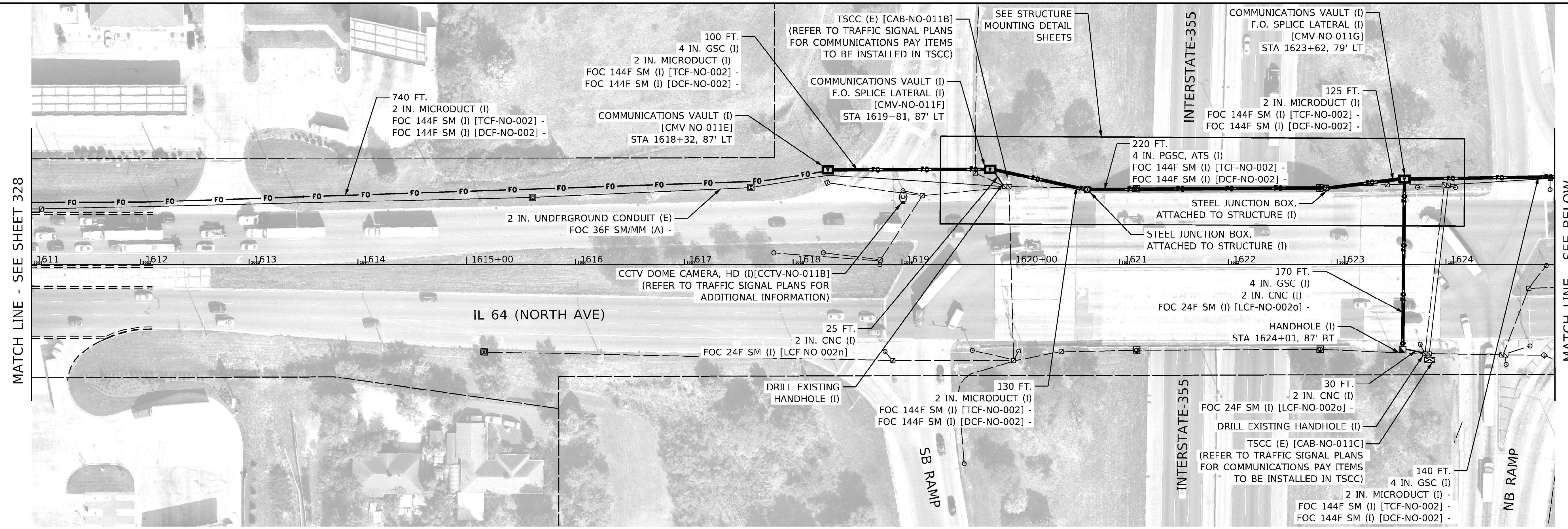
| | DRAWN - | REVISED - | |
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

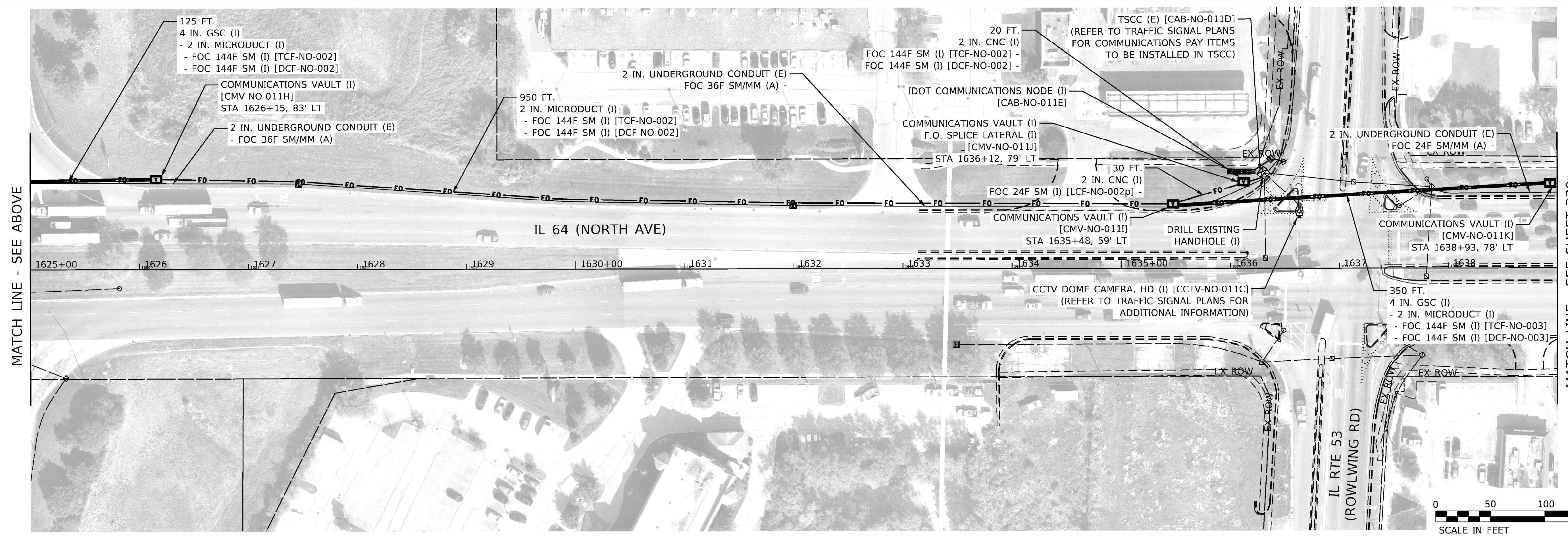
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 22 OF 32 SHEETS | STA. 1583+00.00 TO STA. 1611+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 328 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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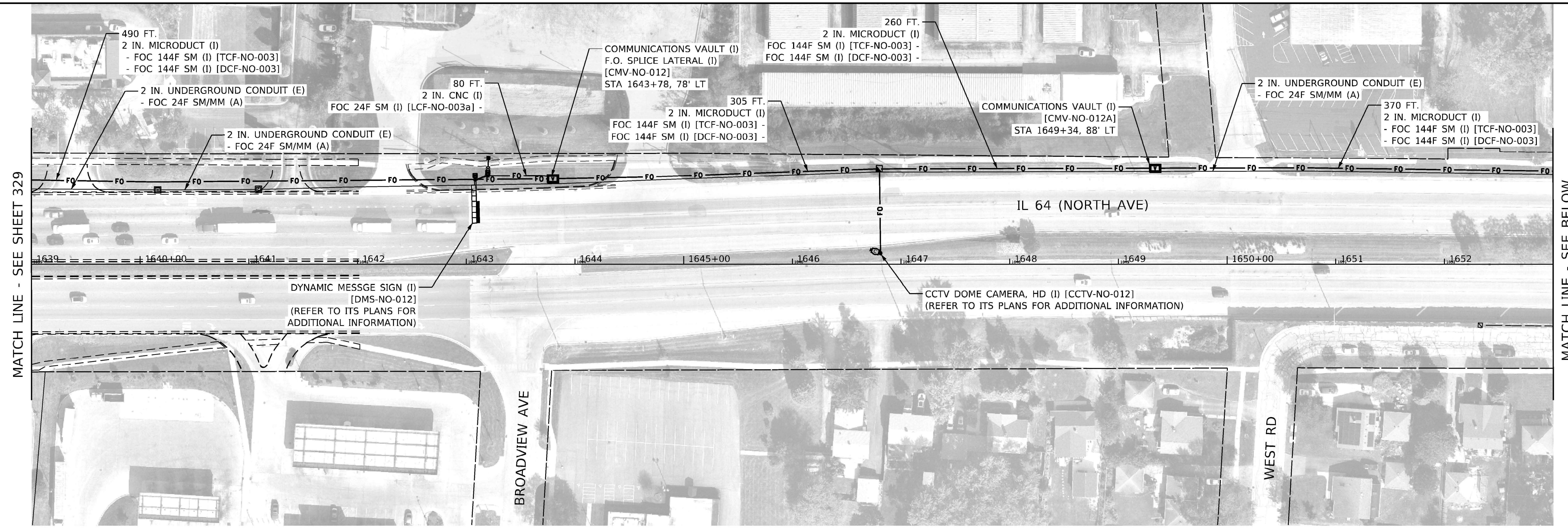
| | DRAWN - | REVISED - | |
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

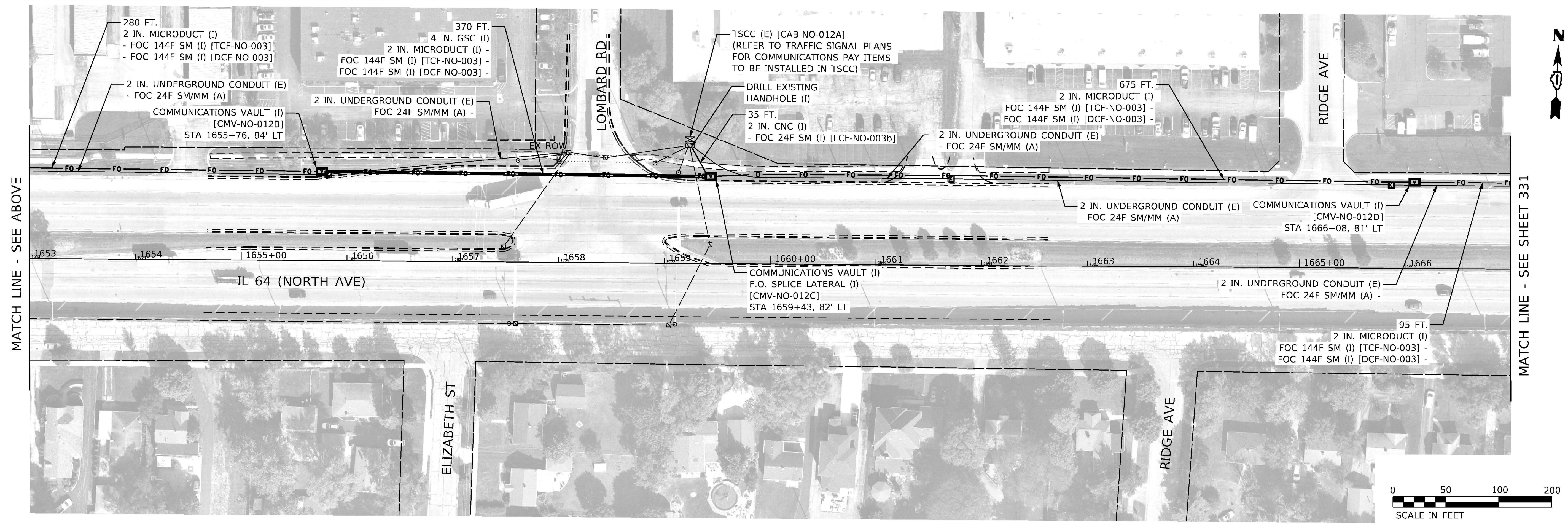
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 23 OF 32 SHEETS | STA. 1611+00.00 TO STA. 1639+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 329 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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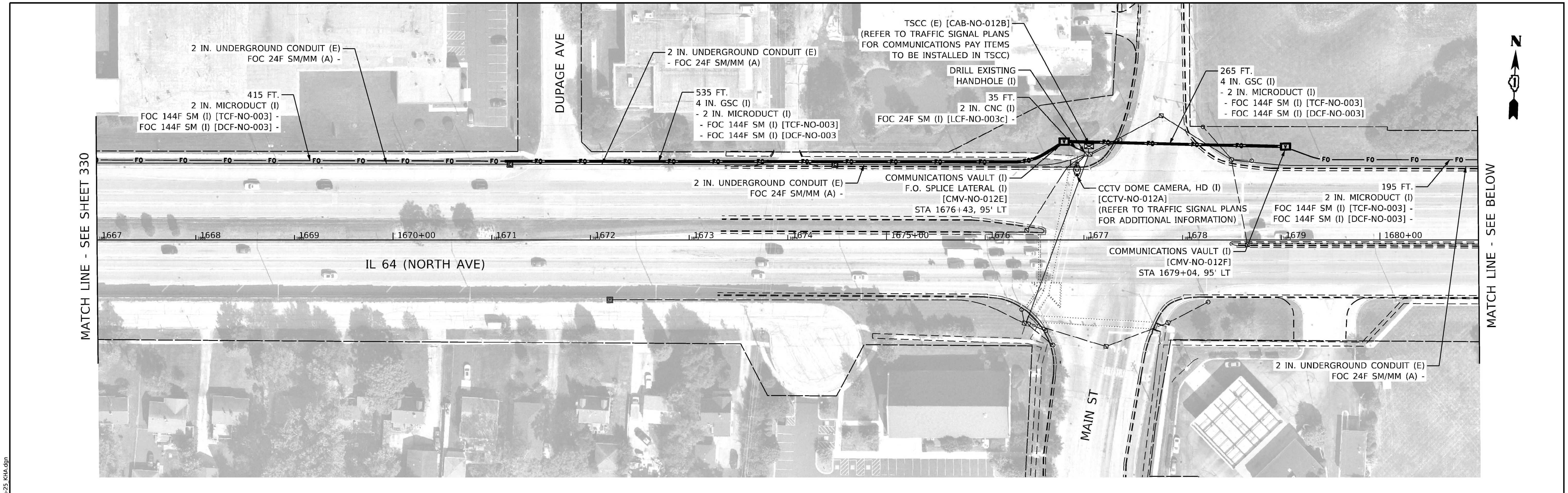
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

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

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 24 OF 32 SHEETS | STA. 1639+00.00 TO STA. 1667+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 330 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |





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|---|---|---|
| | DRAWN | REVISED - |
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| PLOT DATE = | DATE - | REVISED - |

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

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 25 OF 32 SHEETS | STA. 1667+00.00 TO STA. 1695+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 331 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |

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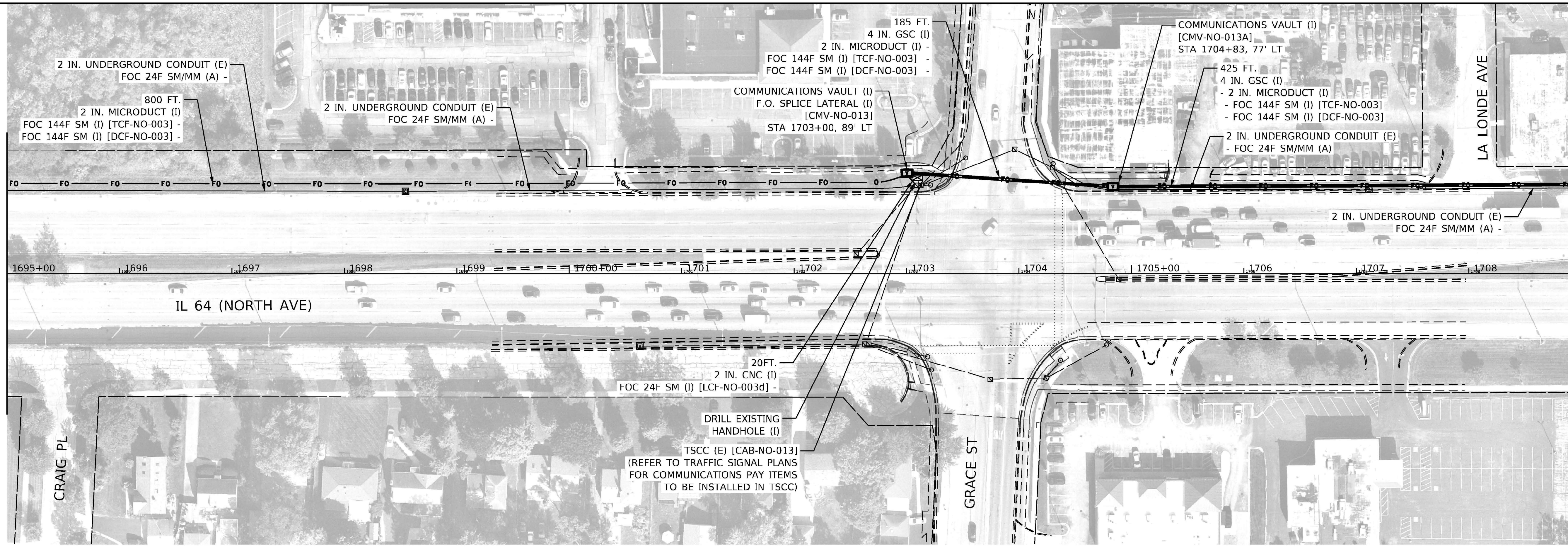


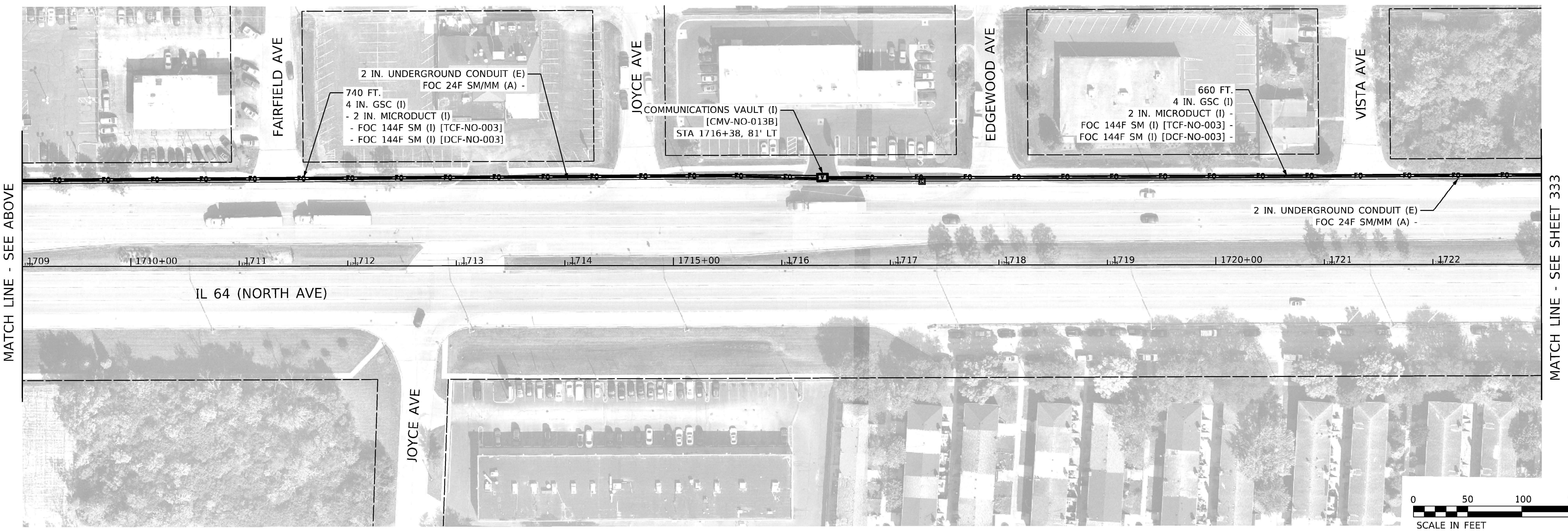


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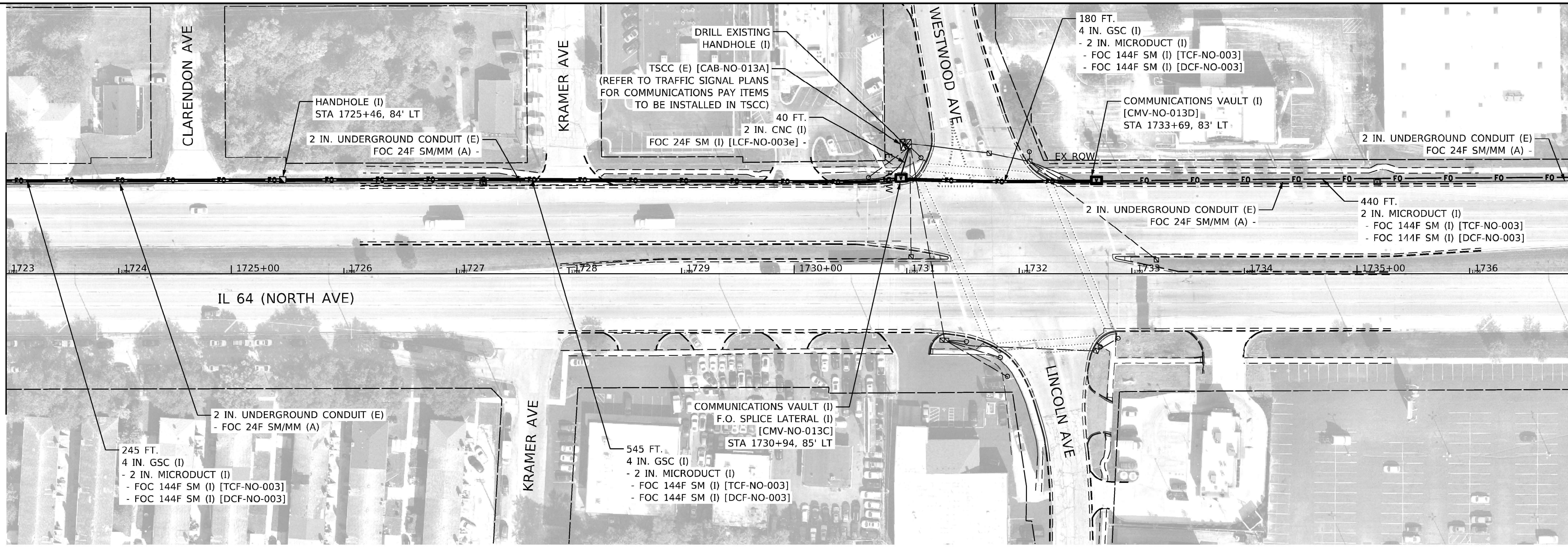
| PLOT DATE = | | DATE - | REVISED - |

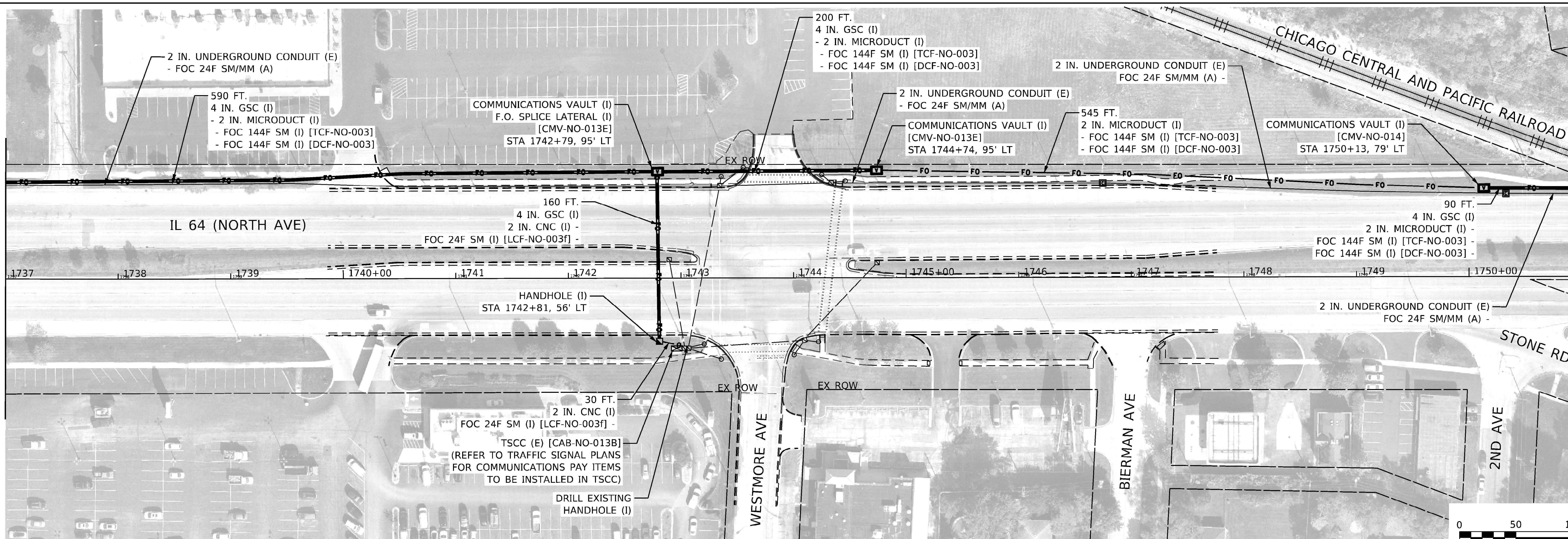
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 26 OF 32 SHEETS | STA. 1695+00.00 TO STA. 1723+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 332 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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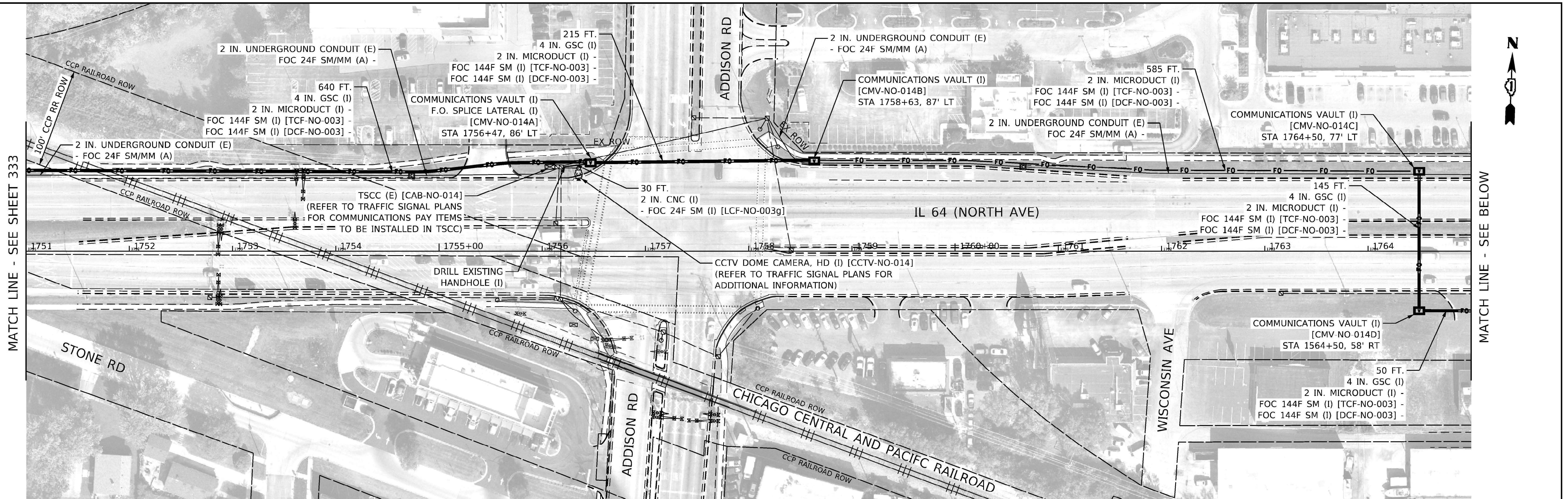
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

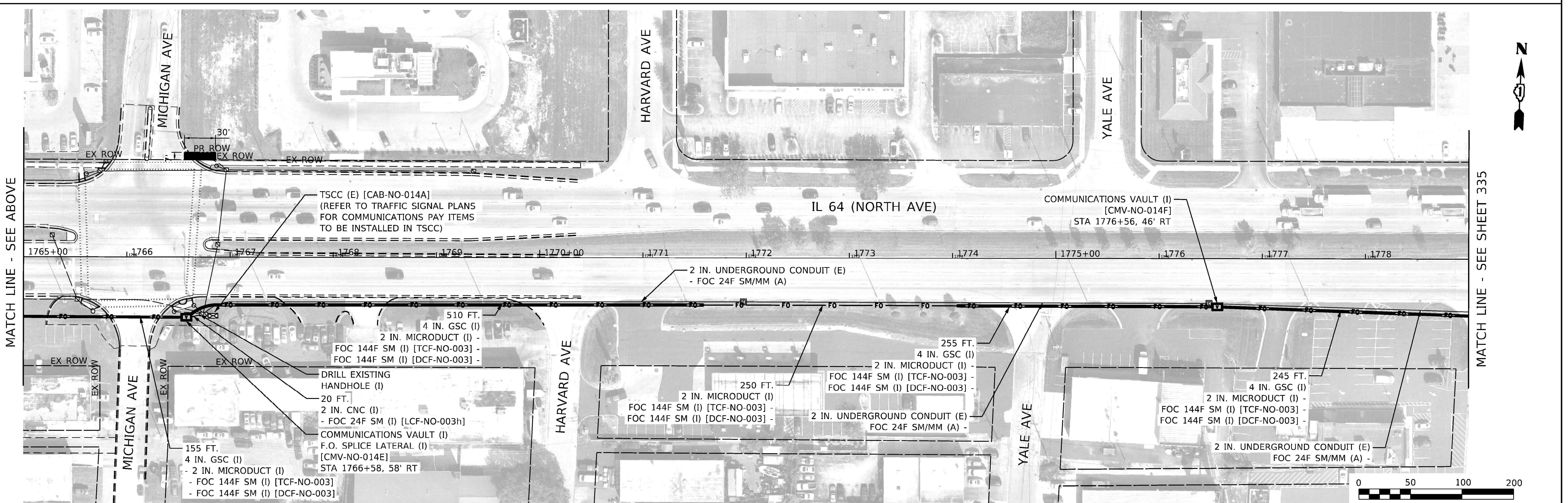
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 27 OF 32 SHEETS | STA. 1723+00.00 TO STA. 1751+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 333 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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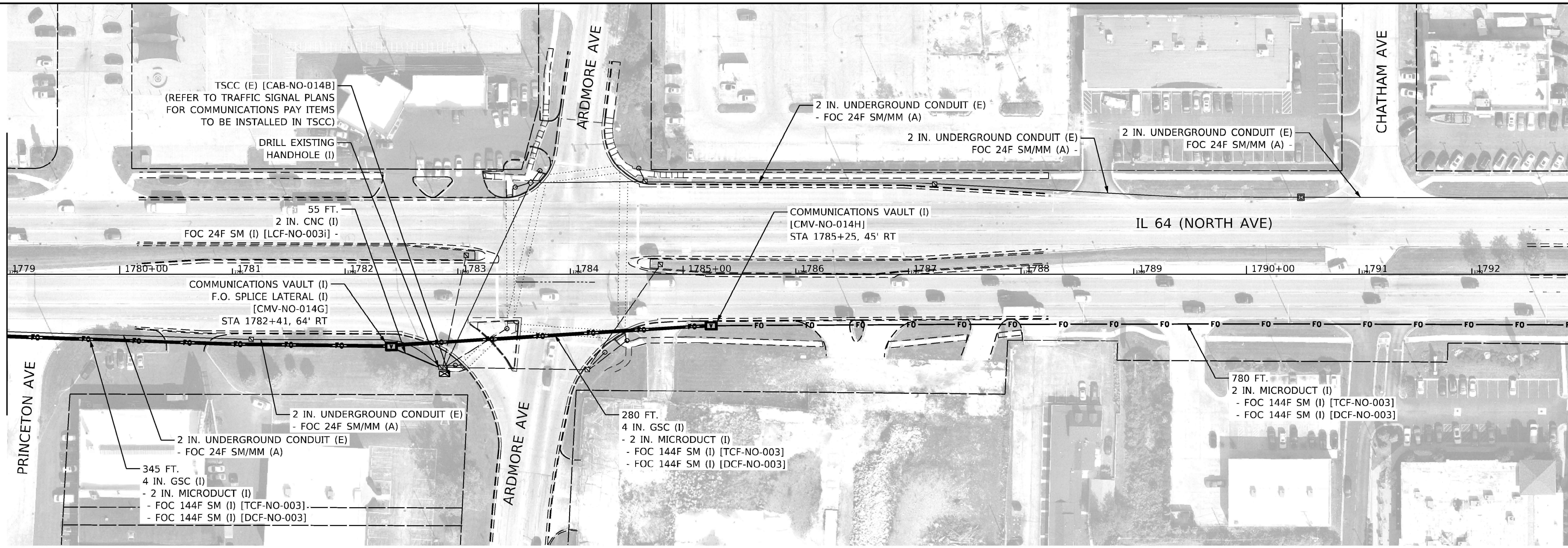
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

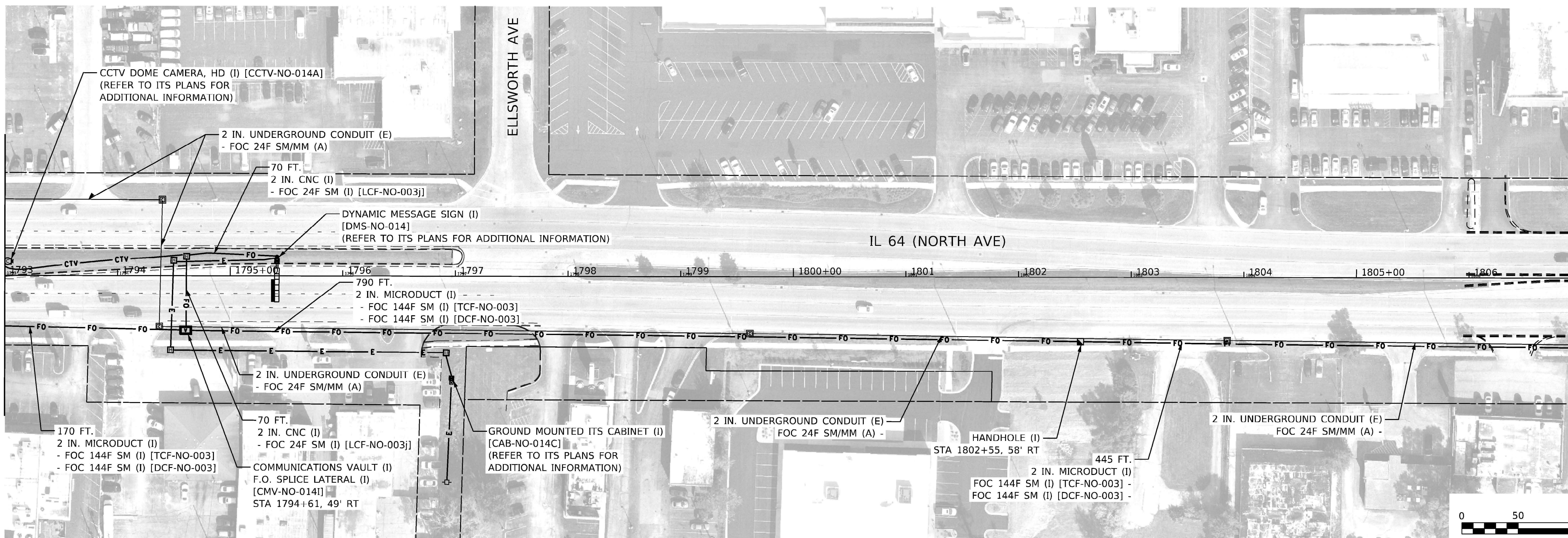
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 28 OF 32 SHEETS | STA. 1751+00.00 TO STA. 1779+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 334 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |



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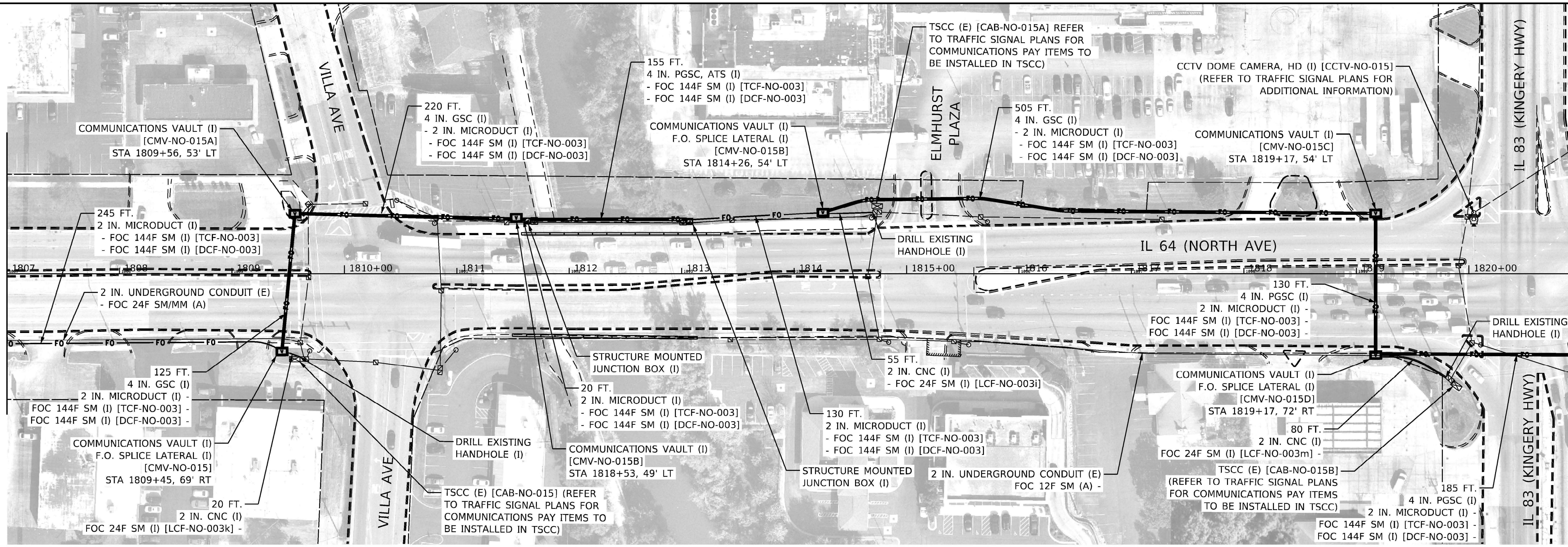
| | DRAWN - | REVISED - | |
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

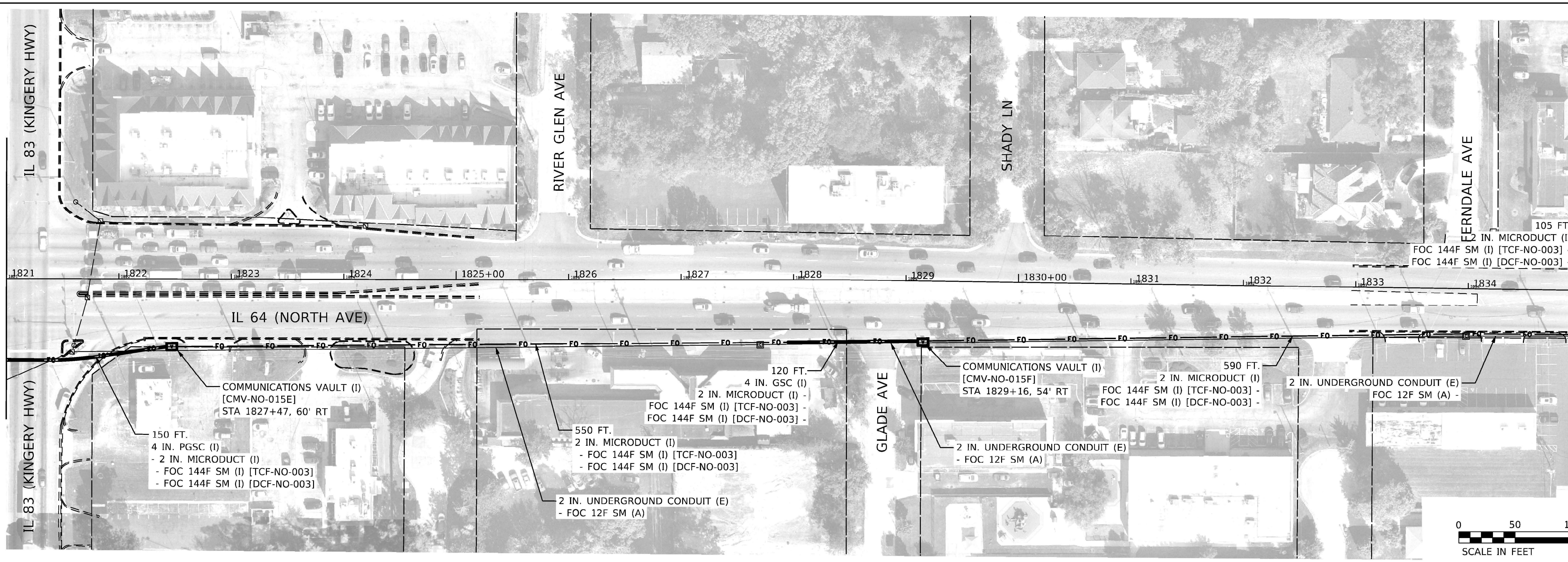
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 29 OF 32 SHEETS | STA. 1779+00.00 TO STA. 1807+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 335 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |



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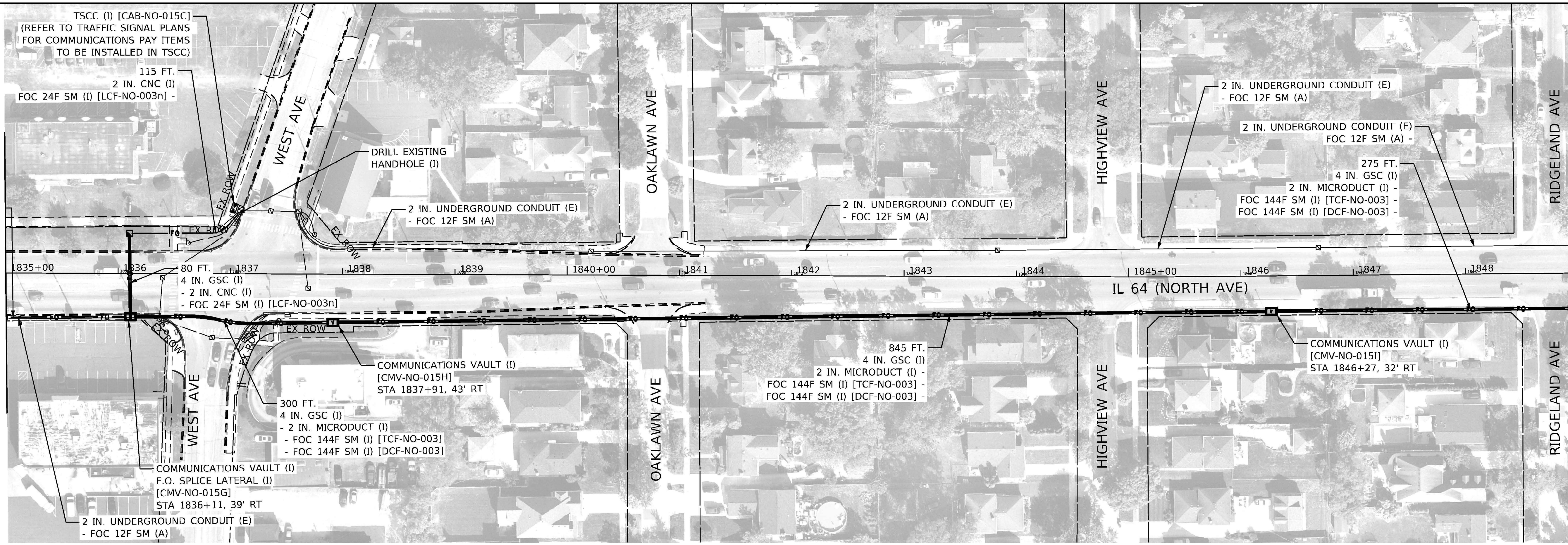
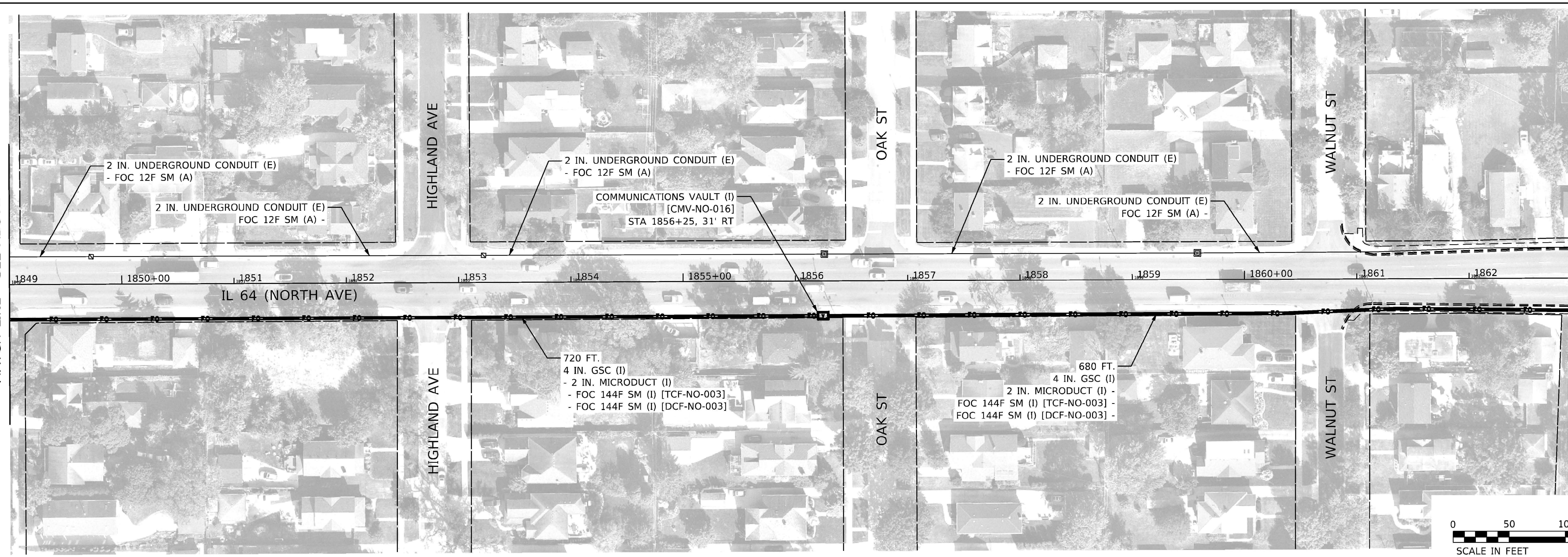
| | DRAWN - | REVISED - | |
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 30 OF 32 SHEETS | STA. 1807+00.00 TO STA. 1835+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 336 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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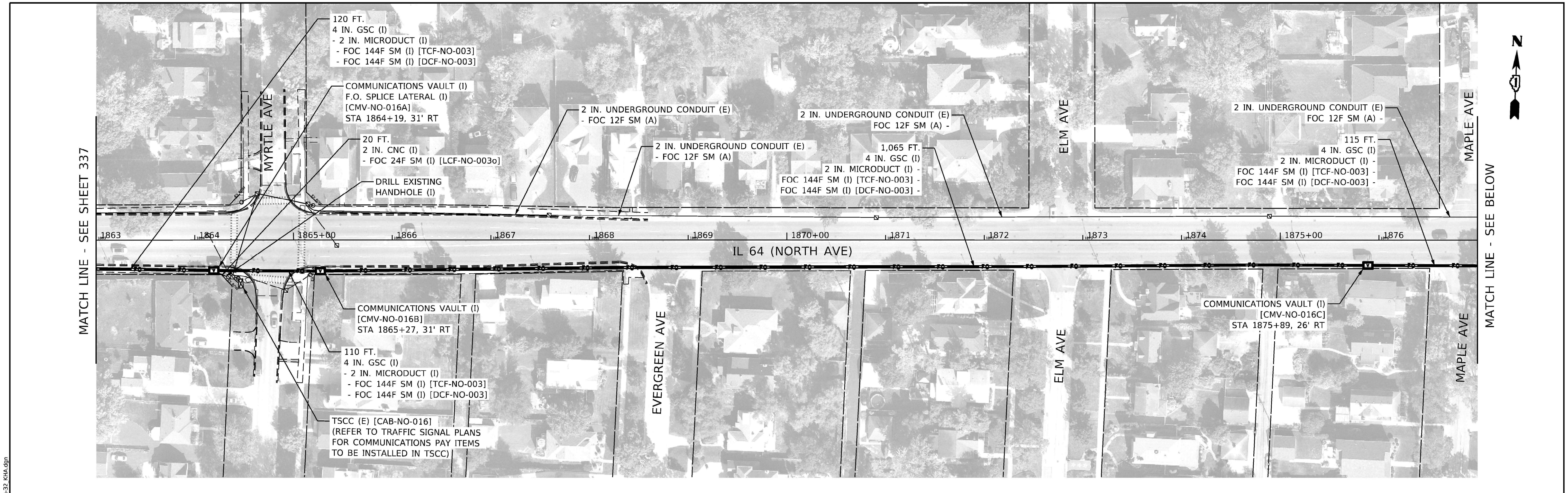
| | PLOT SCALE = | CHECKED - | REVISED - |
| | PLOT DATE = | DATE - | REVISED - |

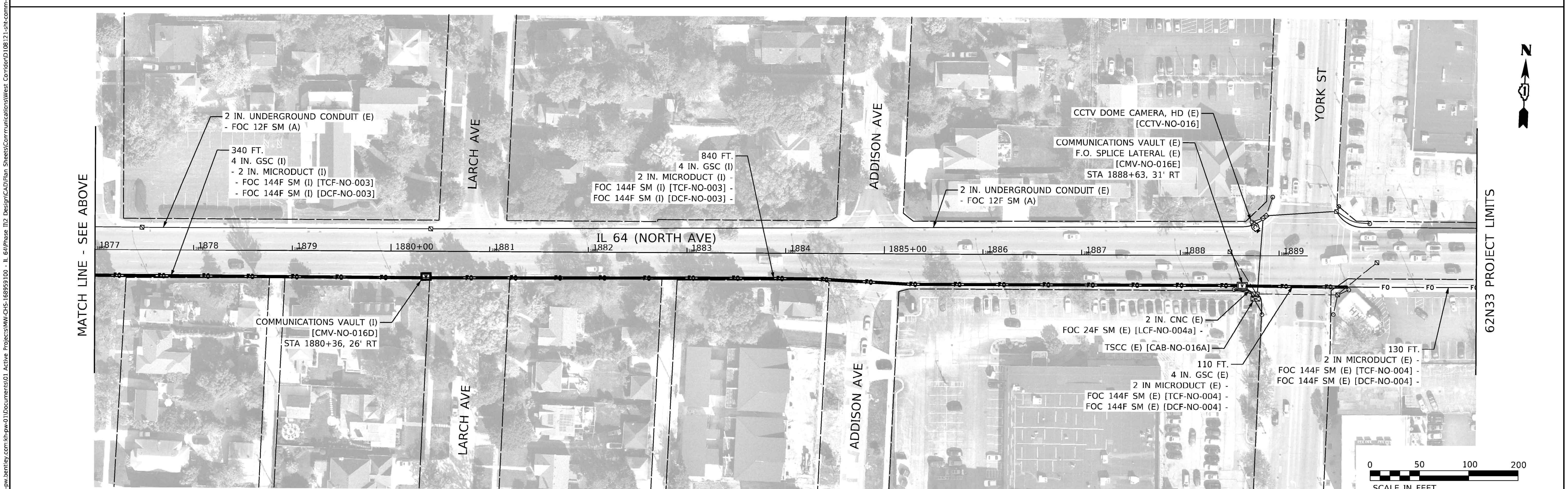
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

SCALE: 1" = 50' | SHEET 31 OF 32 SHEETS | STA. 1835+00.00 TO STA. 1863+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR.SW&TS | DUPAGE | 529 | 337 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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| | DRAWN | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

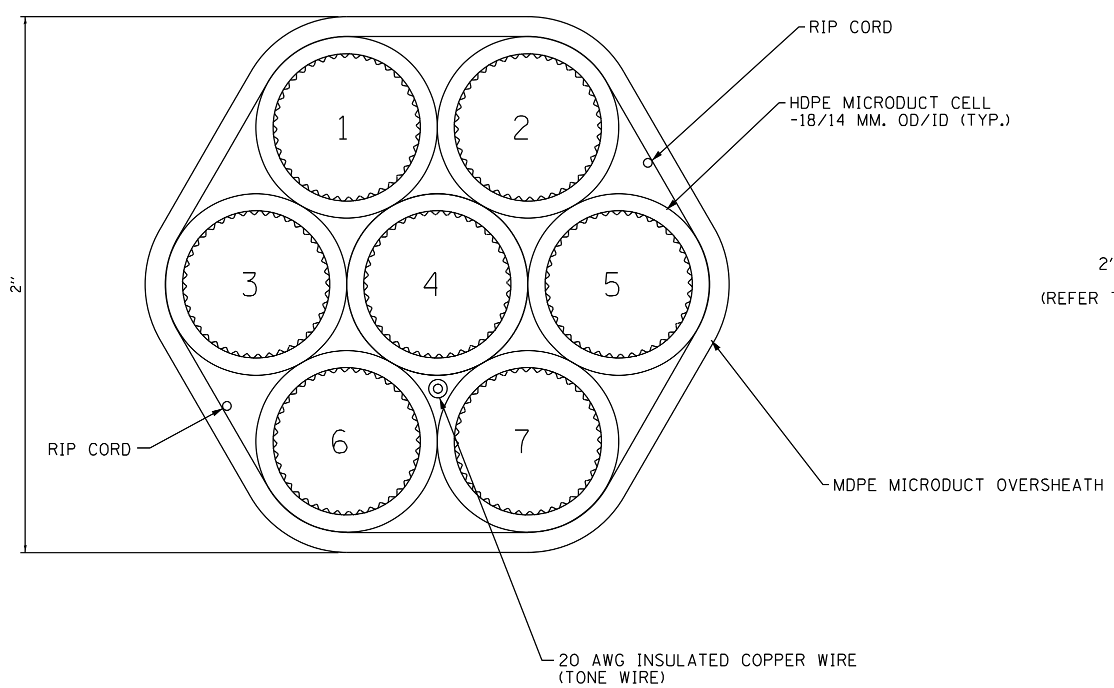
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT & COMMUNICATIONS PLANS**
**IL 64 (NORTH AVE) SMART CORRIDOR**

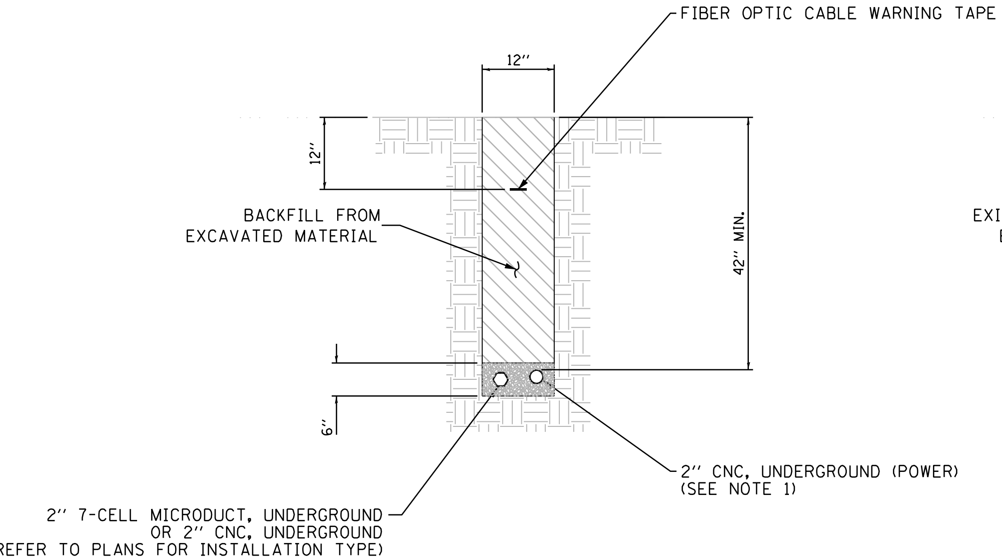
SCALE: 1" = 50' | SHEET 32 OF 32 SHEETS | STA. 1863+00.00 TO STA. 1889+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 338 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |

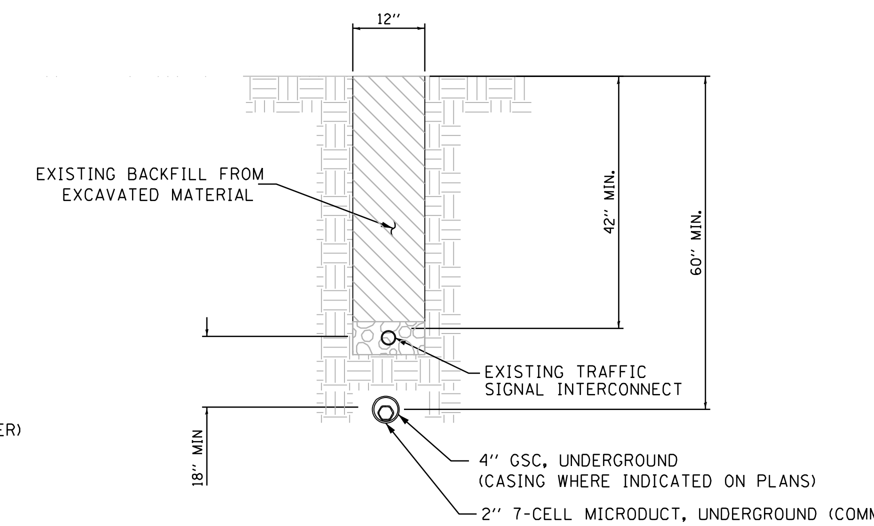
| CELL NO. | CELL COLOR | CELL ALLOCATION |
|---|---|---|
| 1 | BLUE | 144F IDOT (TCF) |
| 2 | ORANGE | 144F IDOT (DCF) |
| 3 | GREEN | SPARE |
| 4 | BROWN | SPARE |
| 5 | GREY | SPARE |
| 6 | WHITE | SPARE |
| 7 | RED | SPARE |



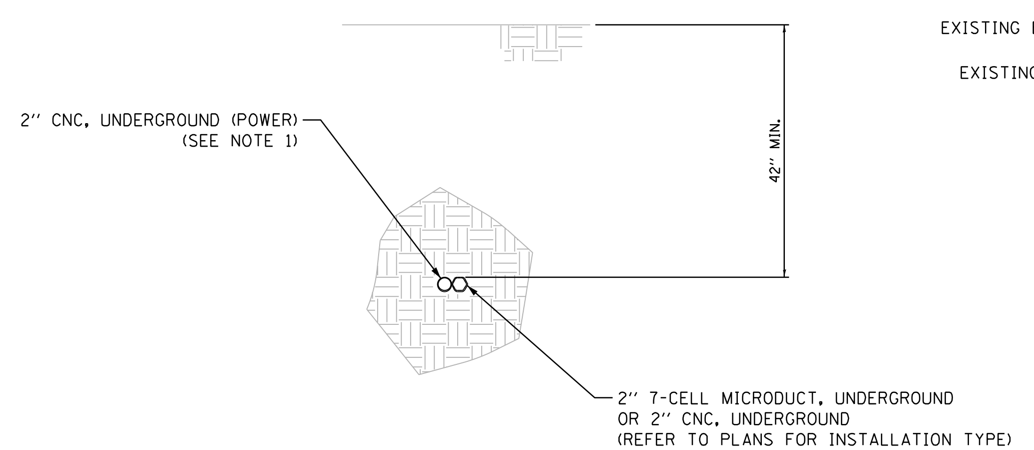

**7-CELL MICRODUCT DETAIL**



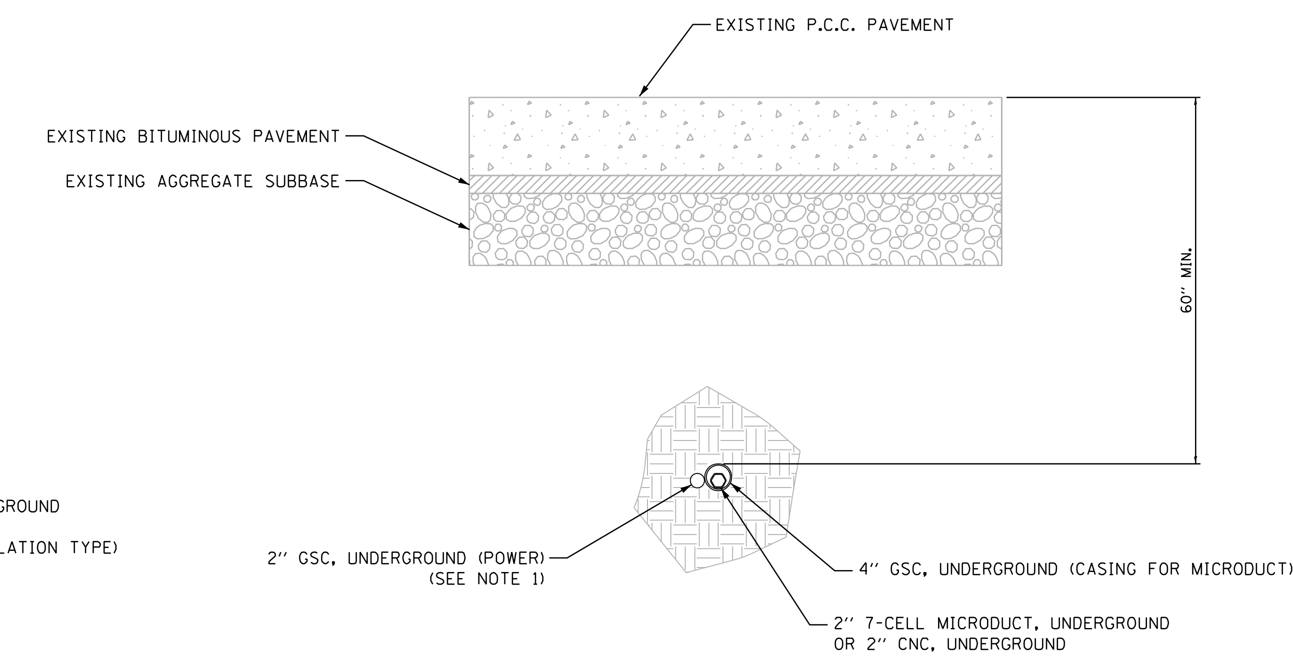

**CONDUIT IN TRENCH**




**BORED CONDUIT ALONG EXISTING INTERCONNECT CONDUIT ROUTE**



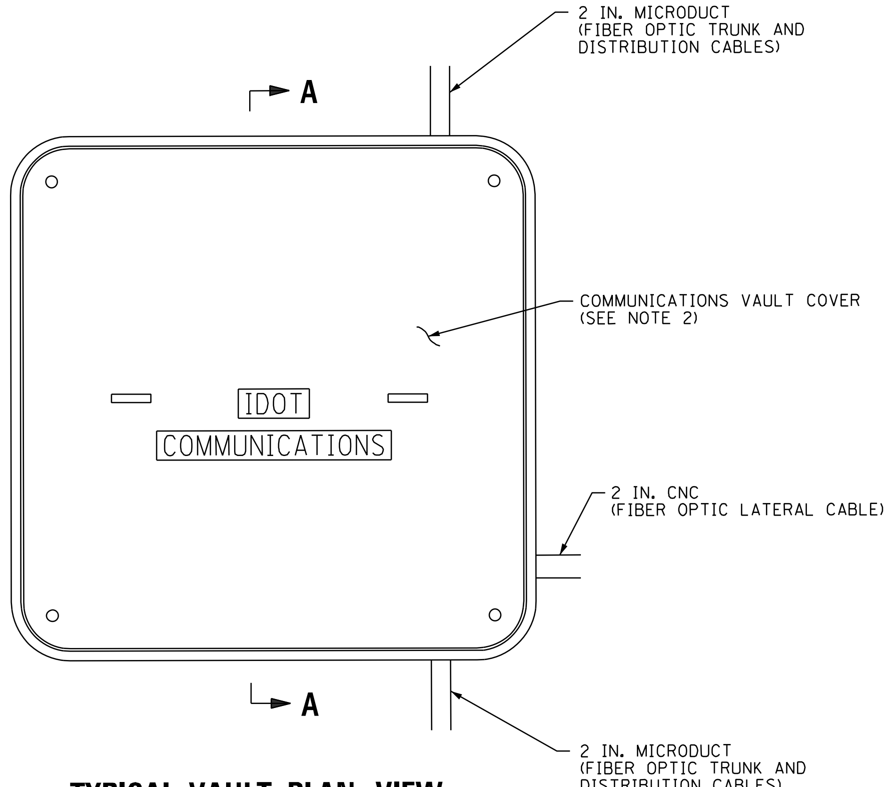

**BORED CONDUIT IN UNPAVED AREAS**



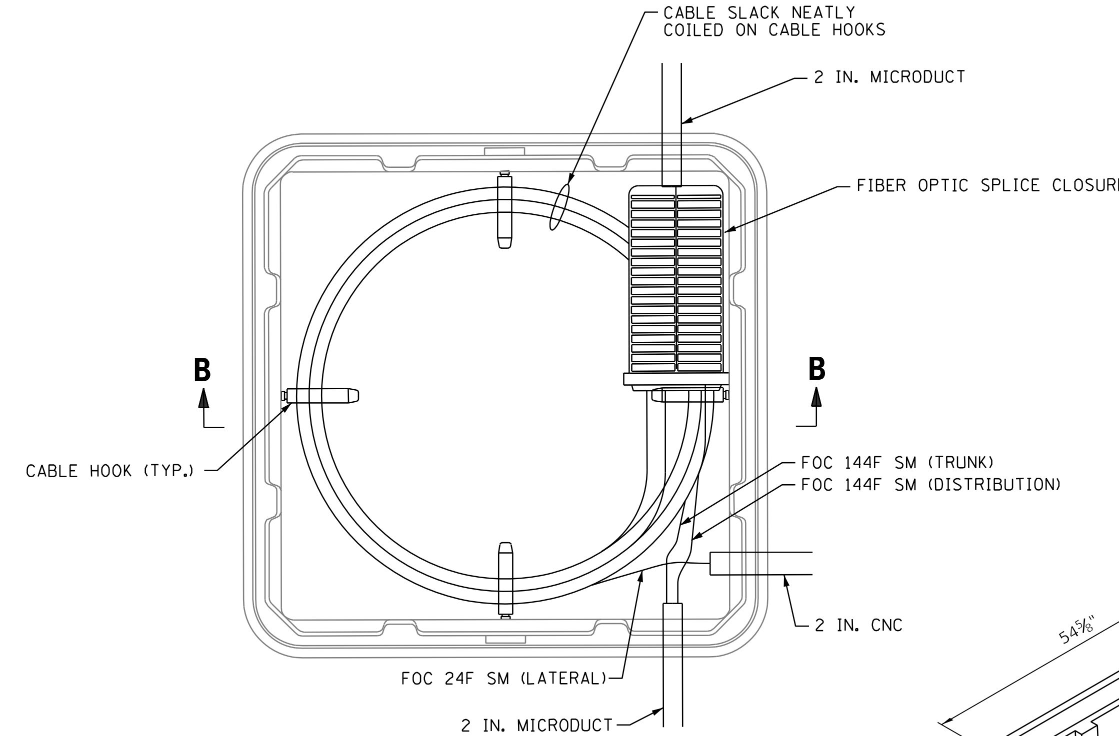

**BORED CONDUIT UNDER ROADWAY**

NOTES:

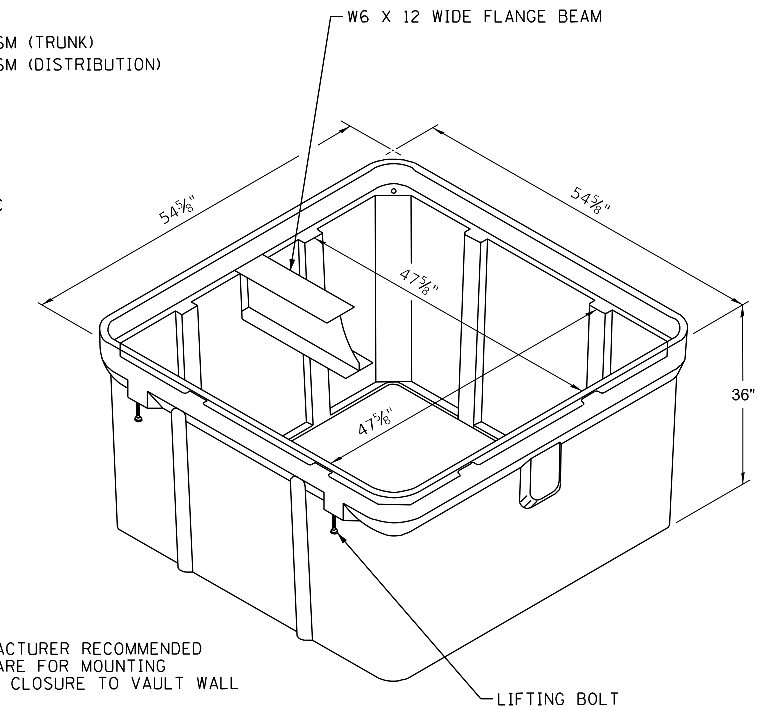
1. CONDUITS FOR COMMUNICATIONS AND POWER ARE NOT NECESSARILY INSTALLED TOGETHER. INSTALLATION CONFIGURATION VARIES BY LOCATION.



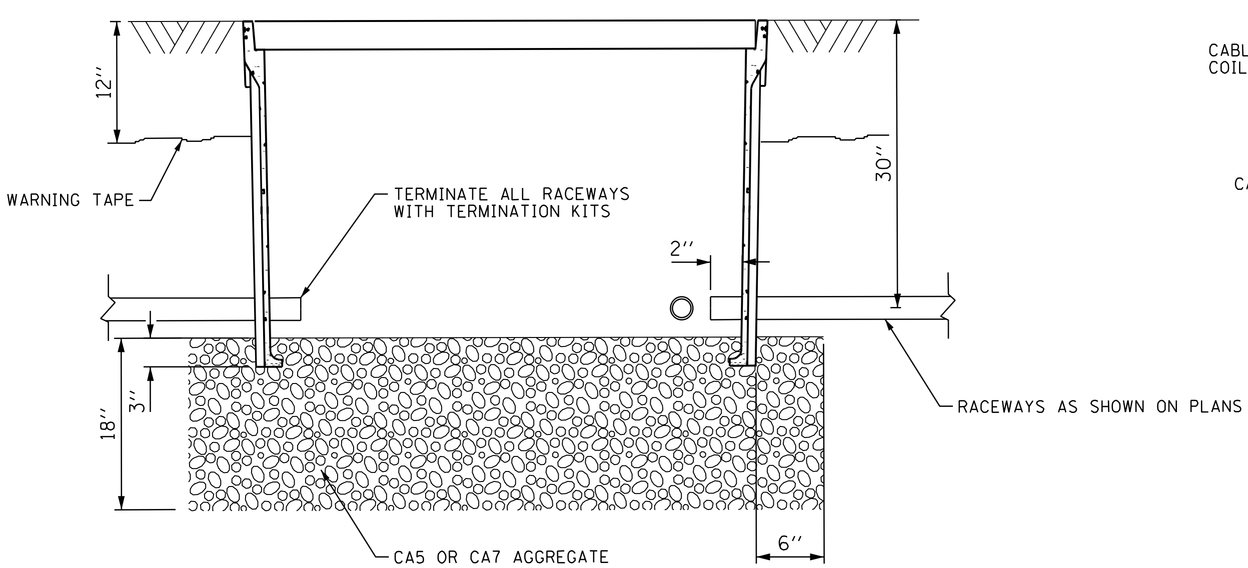

**TYPICAL VAULT PLAN VIEW**



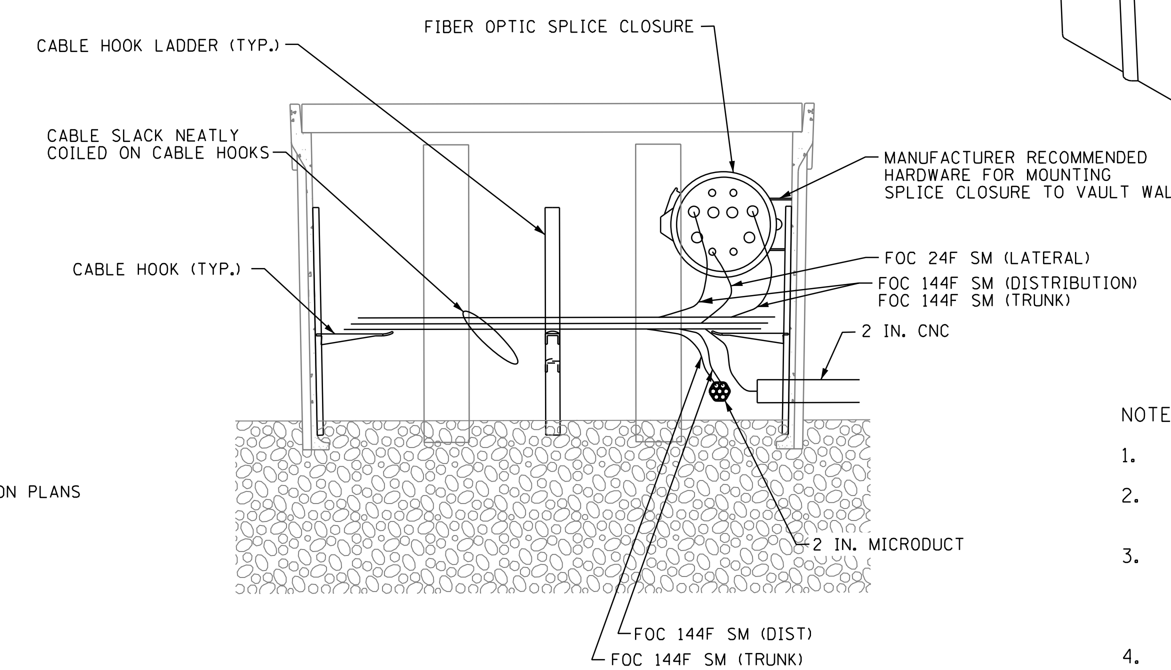

**VAULT INTERIOR PLAN VIEW**




**ISOMETRIC VIEW**




**SECTION A–A**




**SECTION B–B**

NOTES:

1. COMMUNICATIONS VAULT SHALL HAVE AN OPEN BASE.
2. COVER SHALL BE PLACED AS TO RECESS INTO VAULT TO PREVENT LATERAL MOVEMENT
3. ALL OPENINGS IN STRUCTURE SHALL BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT. IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
5. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.
6. ALL SPARE DUCTS OR MICRODUCTS SHALL BE PLUGGED WITH MANUFACTURER APPROVED DUCT PLUGS AFTER PLACEMENT IN VAULTS.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|---|---|---|
| | DRAWN - | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

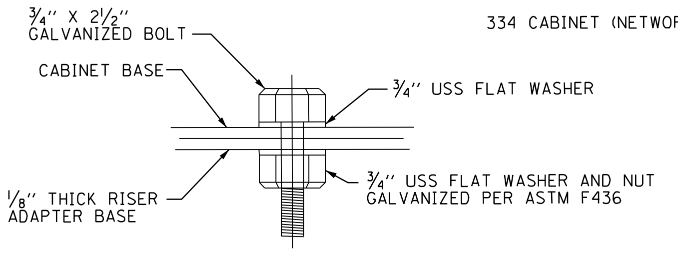
COMMUNICATION DETAILS
IDOT COMMUNICATION VAULT

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

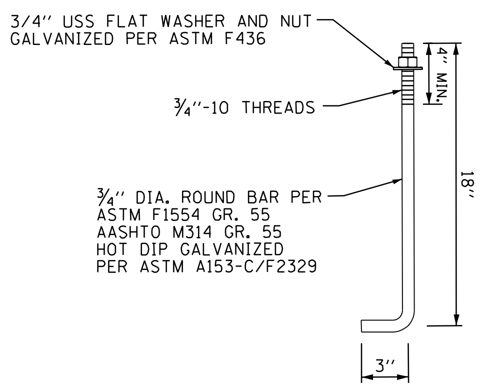
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 340 |

CONTRACT NO. 62N33

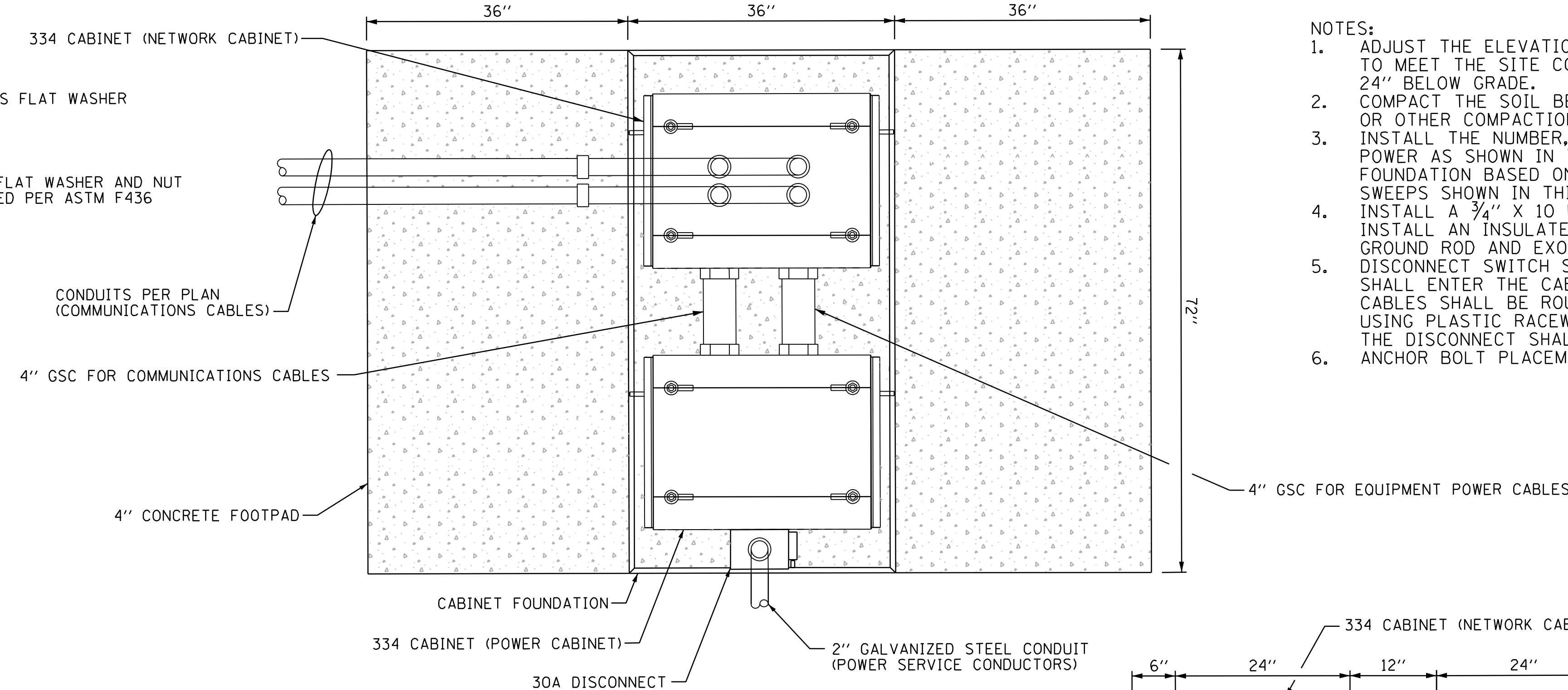
ILLINOIS FED. AID PROJECT




**DETAIL B**



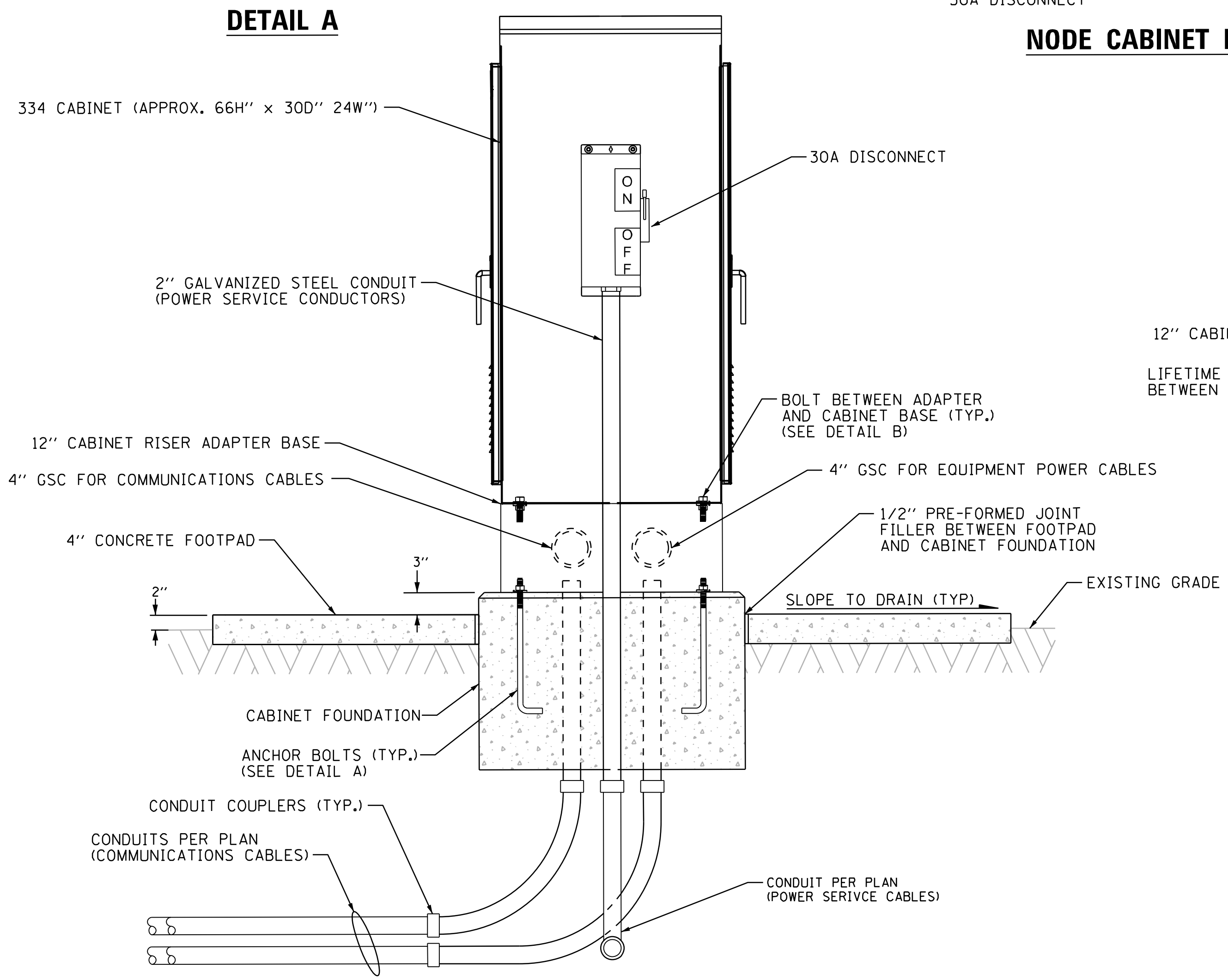

**DETAIL A**



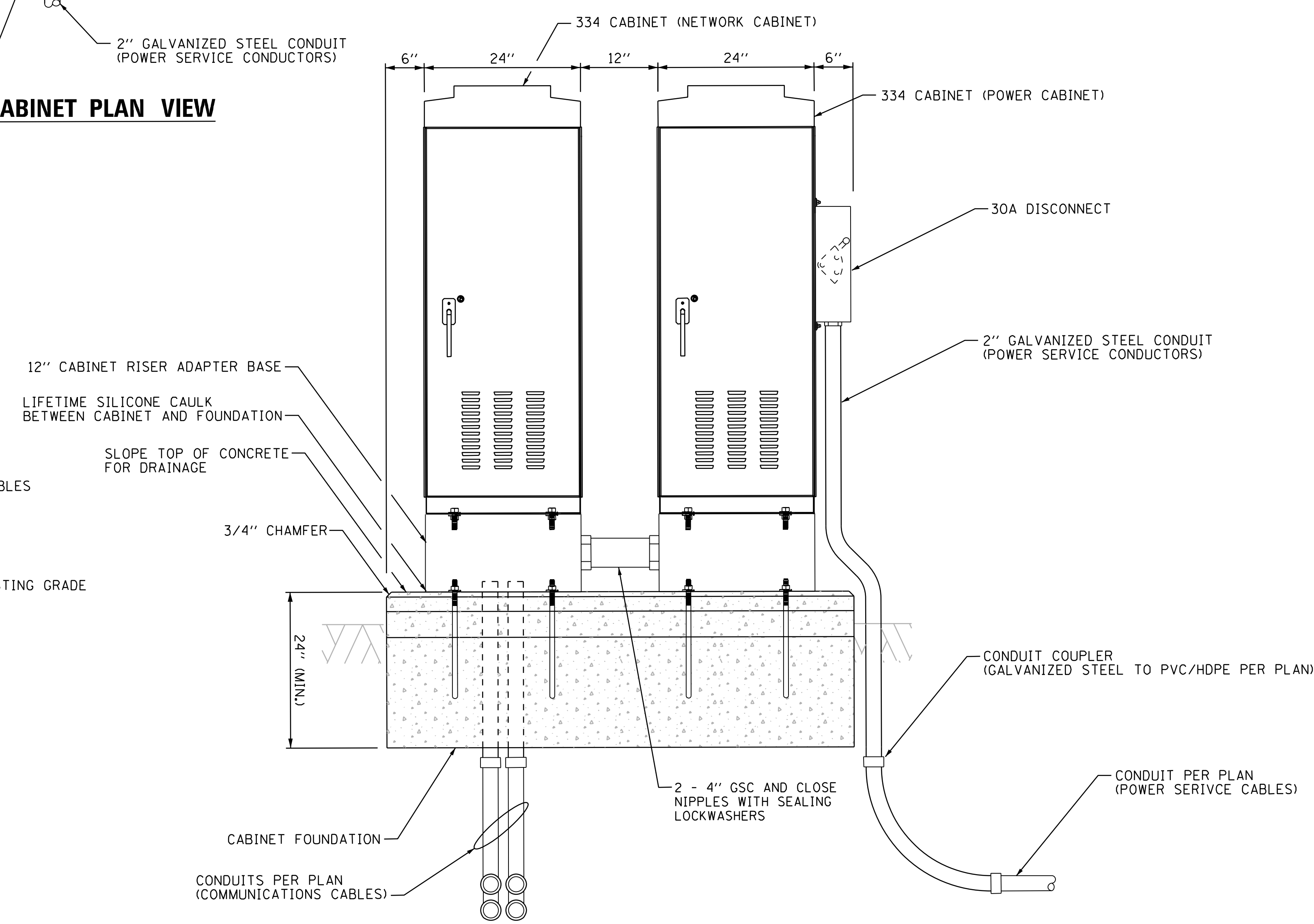

**NODE CABINET PLAN VIEW**

NOTES:

1. ADJUST THE ELEVATIONS AND DEPTH OF CONCRETE FOOTPADS AND FOUNDATION TO MEET THE SITE CONDITIONS. FOUNDATIONS DEPTH SHALL BE A MINIMUM OF 24" BELOW GRADE.
2. COMPACT THE SOIL BENEATH THE CONCRETE FOOTPAD WITH A PLATE COMPACTOR OR OTHER COMPACTION METHOD APPROVED BY THE ENGINEER.
3. INSTALL THE NUMBER, SIZE, AND TYPE OF CONDUIT(S) FOR COMMUNICATIONS AND POWER AS SHOWN IN THE PLANS. DETERMINE THE APPROACH/ENTRY ANGLE TO FOUNDATION BASED ON SITE CONDITIONS. THE NUMBERAND LOCATION OF CONDUIT SWEEPS SHOWN IN THIS DRAWING ARE DIAGRAMMATIC.
4. INSTALL A 3/4" X 10 FT. COPPER CLAD GROUNDING ROD IN THE CABINET FOUNDATION. INSTALL AN INSULATED #2 GROUND WIRE FROM THE CABINET GROUND BUS TO THE GROUND ROD AND EXOTHERMICALLY BOND THE GROUND WIRE AND BAR.
5. DISCONNECT SWITCH SHALL BE MOUNTED TO THE SIDE OF THE CABINET AND CABLES SHALL ENTER THE CABINET VIA THREADED NIPPLE SEALED AGAINST WATER ENTRY. CABLES SHALL BE ROUTED INTERNALLY TO THE POWER PANEL AND KEPT ISOLATED USING PLASTIC RACEWAY. ALL PENETRATIONS INTO THE CABINET FOR MOUNTING THE DISCONNECT SHALL BE SEALED TO THE SATISFACTION OF THE ENGINEER.
6. ANCHOR BOLT PLACEMENT SHALL BE COORDINATED WITH CABINET MANUFACTURER.




**NODE CABINET ELEVATION VIEW (SIDE)**




**NODE CABINET ELEVATION VIEW (FRONT)**



| | | | |
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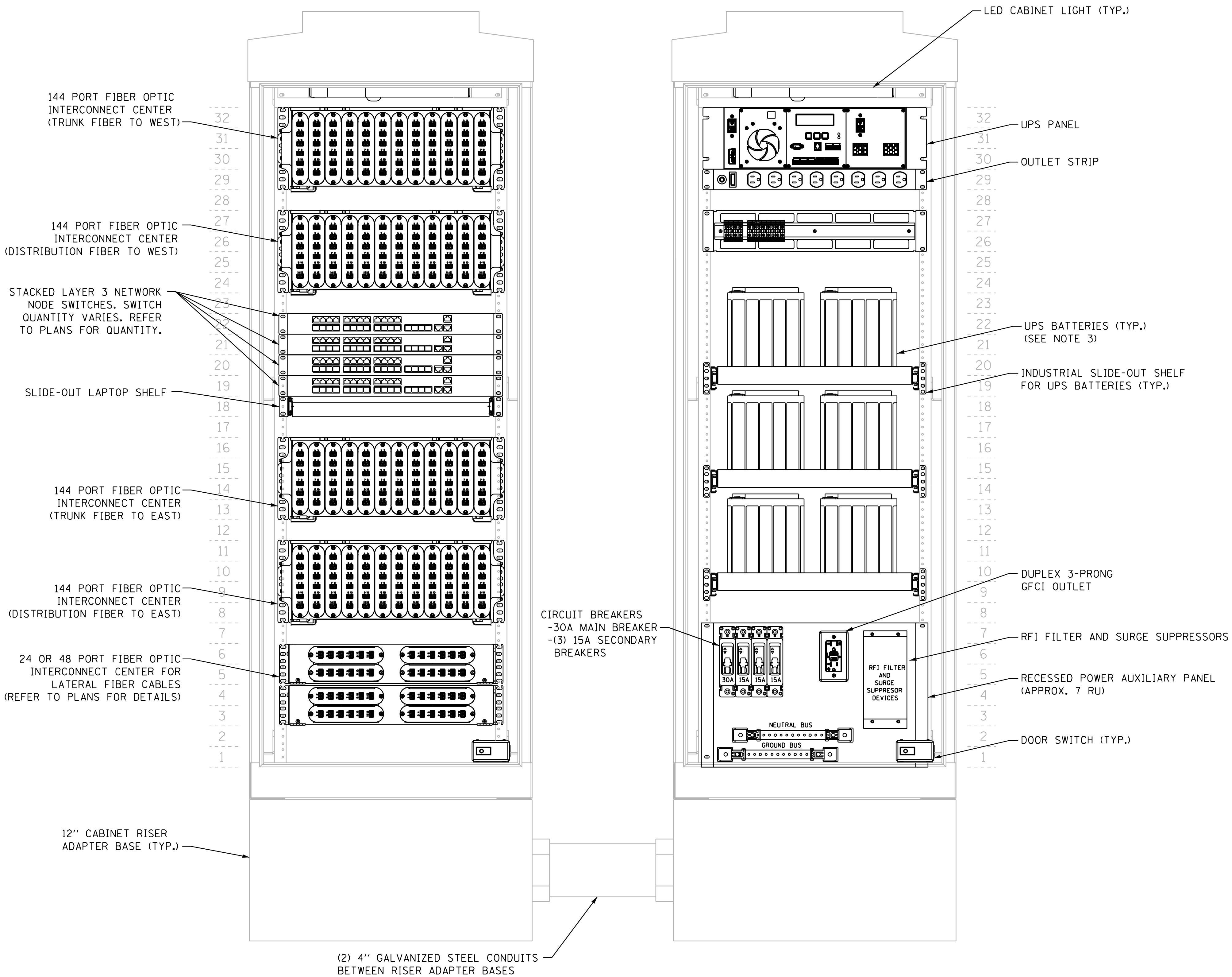
| PLOT DATE = | DATE - | REVISED - | |

**COMMUNICATIONS DETAILS**
**NODE CABINET AND FOUNDATION**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | comm-det-03S |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |




**NETWORK CABINET LAYOUT**

**POWER CABINET LAYOUT**

**SUGGESTED NODE CABINET LAYOUTS**

NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CABINET LAYOUT. AUXILIARY PANEL SIZING SHALL BE COORDINATED WITH CABINET MANUFACTURER.
2. CABINET FAN AND THERMOSTAT NOT SHOWN FOR CLARITY. CABINET MANUFACTURER SHALL DETERMINE FINAL LOCATIONS.
3. CONFIGURATION SHOWN ASSUMES (6) 12V BATTERIES ARRAYED IN SERIES PER SHELF. THE CONTRACTOR SHALL DETERMINE THE SIZE, TYPE, QUANTITY, AND VOLTAGE OF THE BATTERY ARRAY USED AS PART OF THE UPS SYSTEM THAT MEETS THE RUNTIME REQUIREMENTS PROVIDED IN THE SPECIAL PROVISIONS.
4. SEE "NODE CABINET WIRING DIAGRAM" FOR INTERNAL POWER WIRING SCHEMATIC.
5. FIBER OPTIC INTERCONNECT CENTERS SHALL BE INSTALLED AT LOCATIONS AS REQUIRED BY THE TYPES OF CABLES TERMINATED.

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| PLOT DATE = | DATE - | REVISED - | |

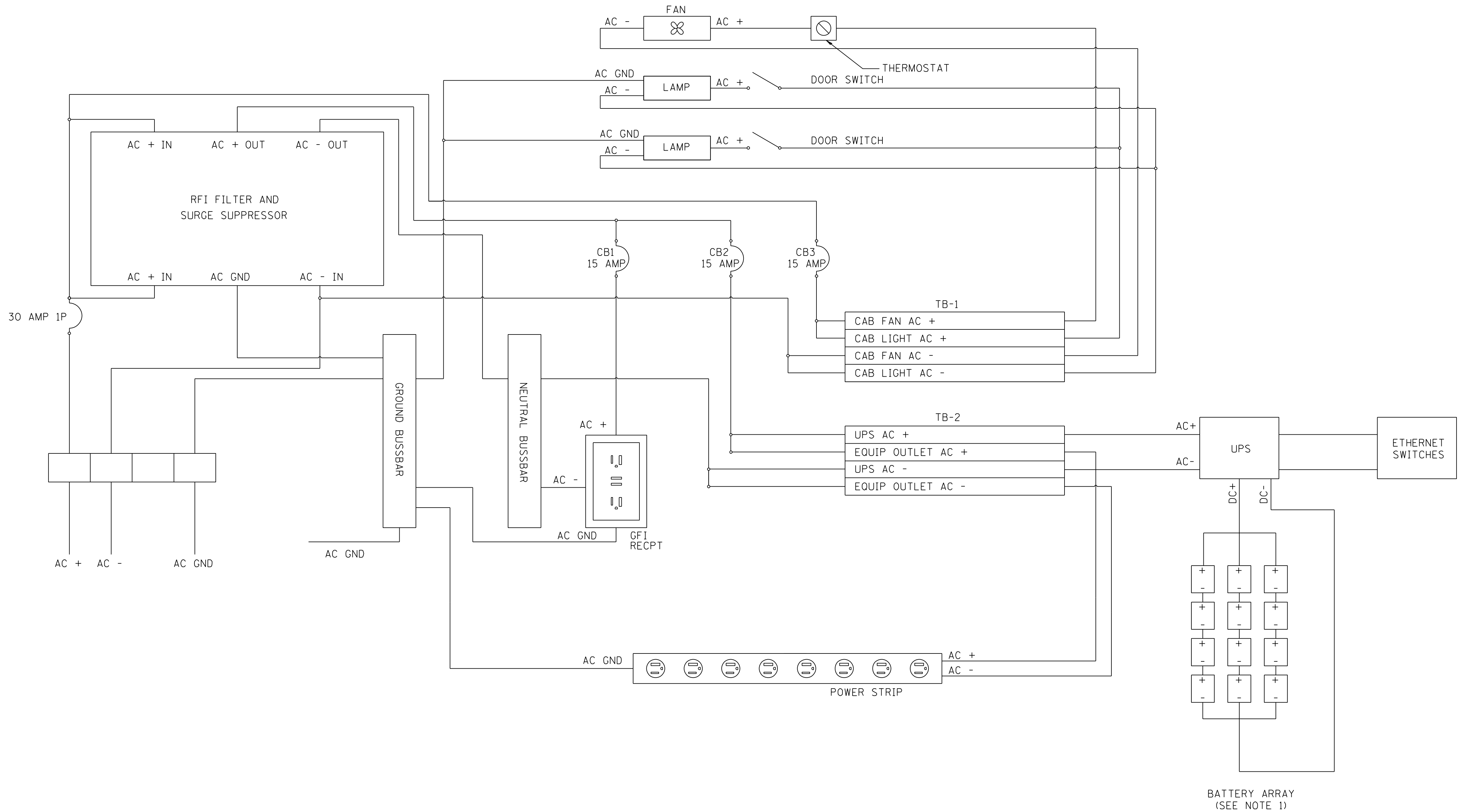
**COMMUNICATIONS DETAILS**
**NODE CABINET RACK LAYOUT**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 341 |

CONTRACT NO. 62N33

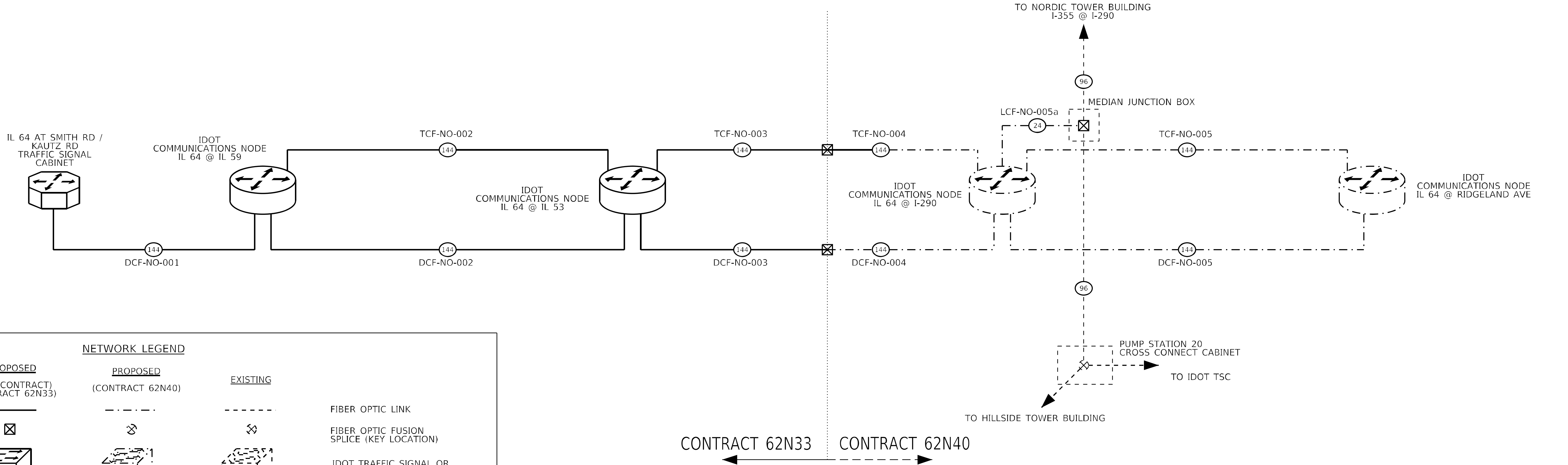
ILLINOIS FED. AID PROJECT



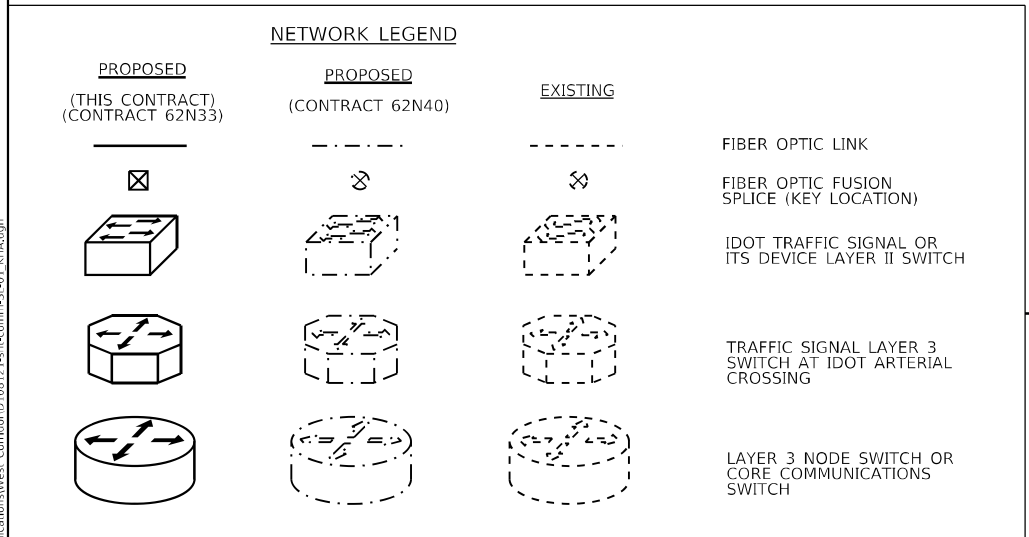

# NODE CABINET SINGLE LINE WIRING DIAGRAM

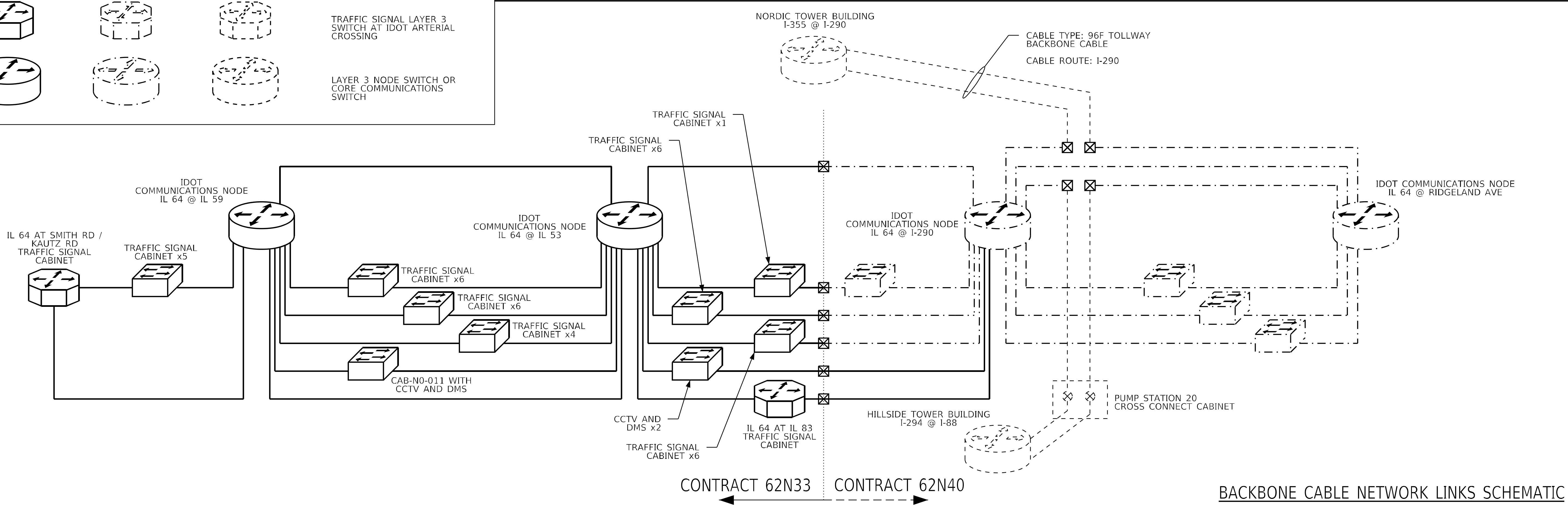
NOTES:

1. CONFIGURATION SHOWN ASSUMES (6) 12V BATTERIES ARRAYED IN SERIES PER SHELF. THE CONTRACTOR SHALL DETERMINE THE SIZE, TYPE, QUANTITY, AND VOLTAGE OF THE BATTERY ARRAY USED AS PART OF THE UPS SYSTEM THAT MEETS THE RUNTIME REQUIREMENTS PROVIDED IN THE SPECIAL PROVISIONS.




BACKBONE CABLE PHYSICAL OVERVIEW SCHEMATIC




BACKBONE CABLE NETWORK LINKS SCHEMATIC



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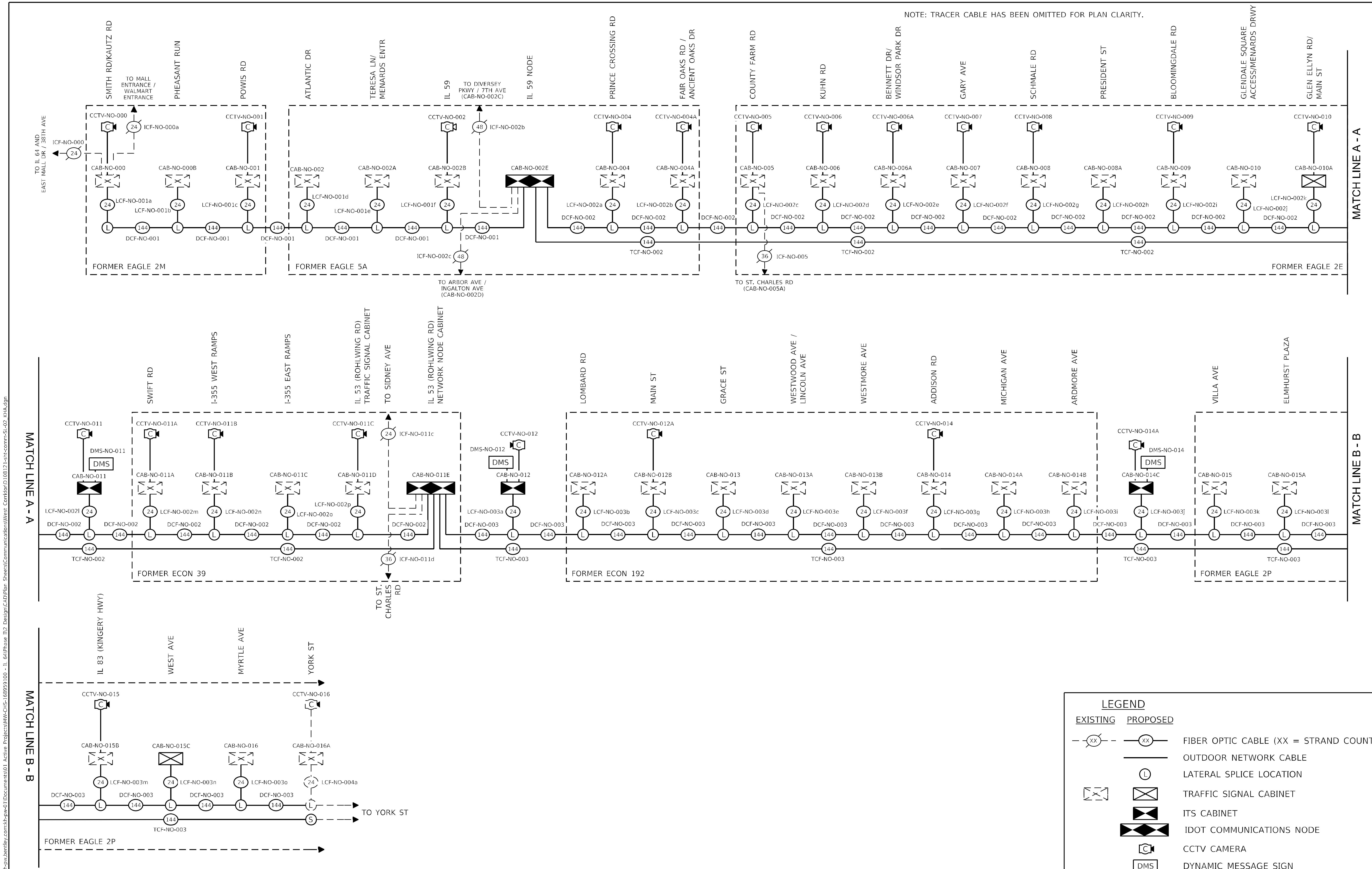
| PLOT DATE = | DATE - | REVISED - |

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

**COMMUNICATIONS SINGLE LINE DIAGRAMS**
**CORRIDOR NETWORK OVERVIEW**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 344 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |

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| PLOT DATE = | DATE - | REVISED - | |

**COMMUNICATIONS SINGLE LINE DIAGRAMS**
**FIBER OPTIC CABLE OVERVIEW**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
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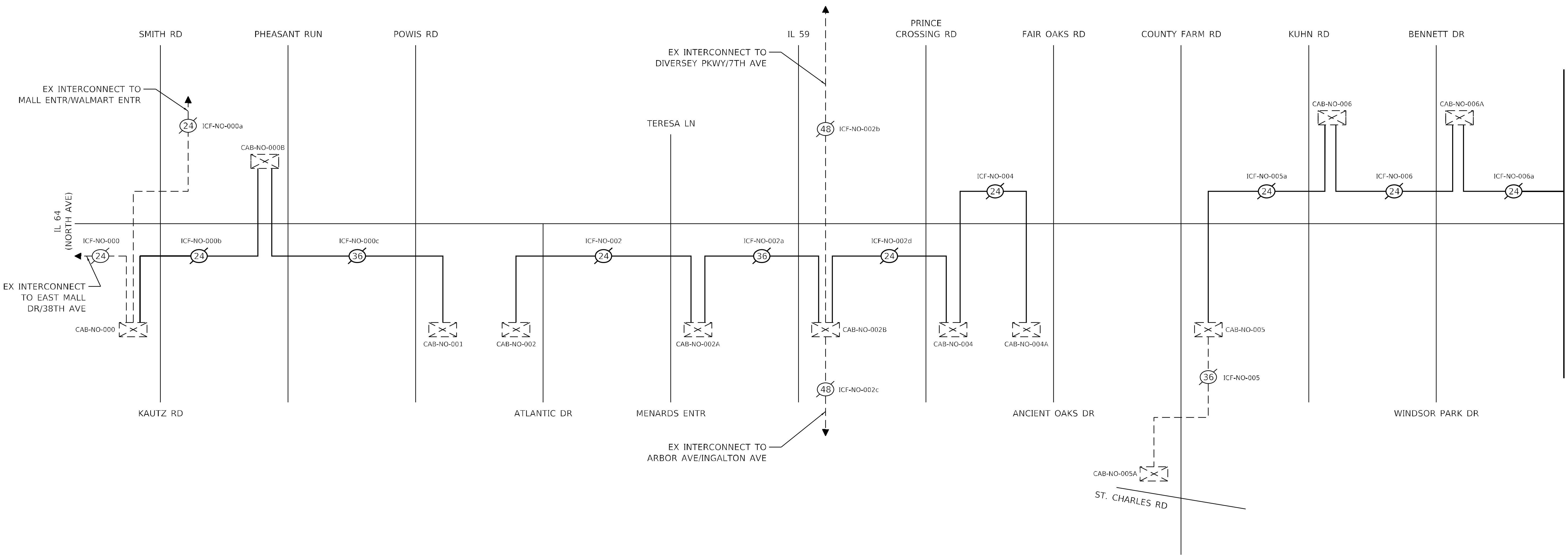
| CONTRACT NO. 62N33 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |




## LEGEND

| EXISTING TO REMAIN | EXISTING TO BE ABANDONED | |
|---|---|---|
| | | TRAFFIC SIGNAL CABINET |
| 12 | 12 | FIBER OPTIC CABLE (12MM STRANDS) AND TRACER CABLE NO. 14 1/C |
| 24 | 24 | FIBER OPTIC CABLE (12MM STRANDS / 12SM STRANDS) AND TRACER CABLE NO. 14 1/C |
| 36 | 36 | FIBER OPTIC CABLE (12MM STRANDS / 24SM STRANDS) AND TRACER CABLE NO. 14 1/C |
| 48 | 48 | FIBER OPTIC CABLE (48SM STRANDS) AND TRACER CABLE NO. 14 1/C |

NOTE:

1) EXISTING TRAFFIC SIGNAL INTERCONNECT TO REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION OF PROPOSED IMPROVEMENTS. CONTRACTOR TO COORDINATE WITH IDOT TO COMPLETE CUTOVER TO NEW TRAFFIC SIGNAL CONTROLLER ONCE NEW CONTROLLER HAS BEEN INSTALLED, CONFIGURED, AND CONNECTED TO THE NEW IDOT FIBER OPTIC COMMUNICATIONS BACKBONE CABLE INSTALLED AS PART OF THIS PROJECT. EXISTING TRAFFIC SIGNAL INTERCONNECT TO BE ABANDONED IN PLACE AFTER NEW TRAFFIC SIGNAL CONTROLLER HAS BEEN FULLY INTEGRATED INTO IDOT ATMS.

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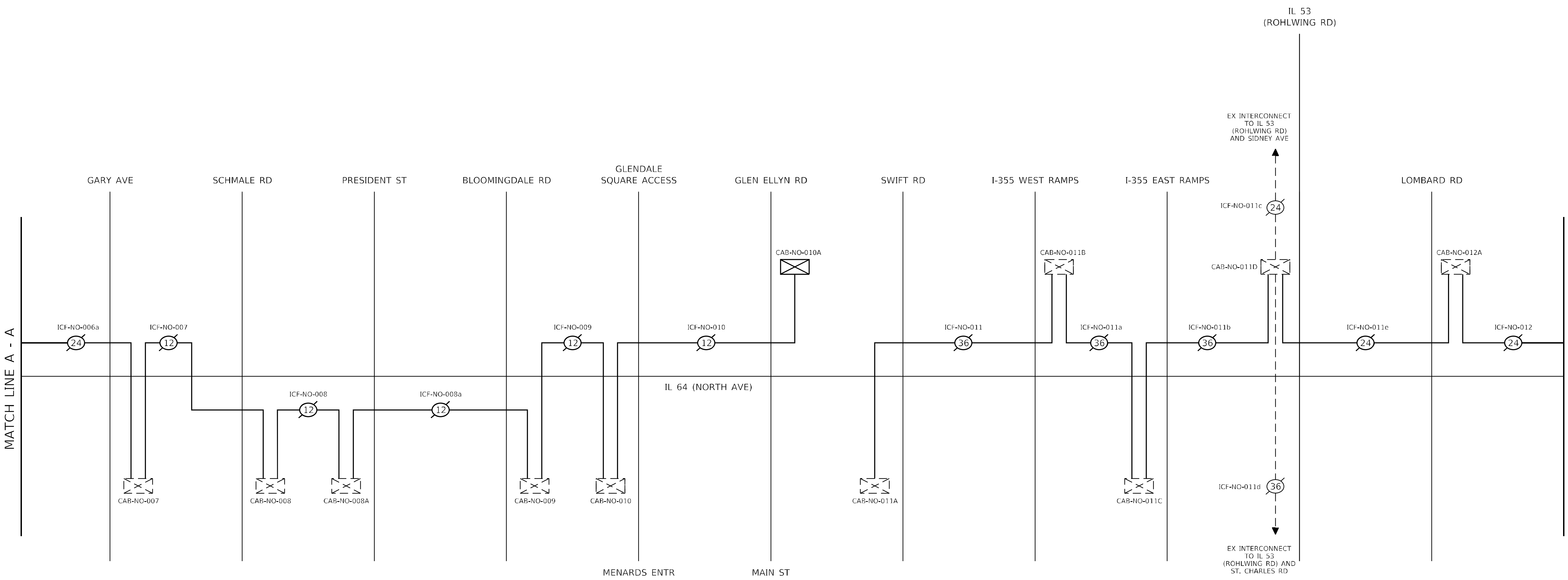
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS SINGLE LINE DIAGRAMS
FIBER OPTIC INTERCONNECT CABLE – REMOVAL

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 346 |

CONTRACT NO. 62N33
ILLINOIS | FED. AID PROJECT

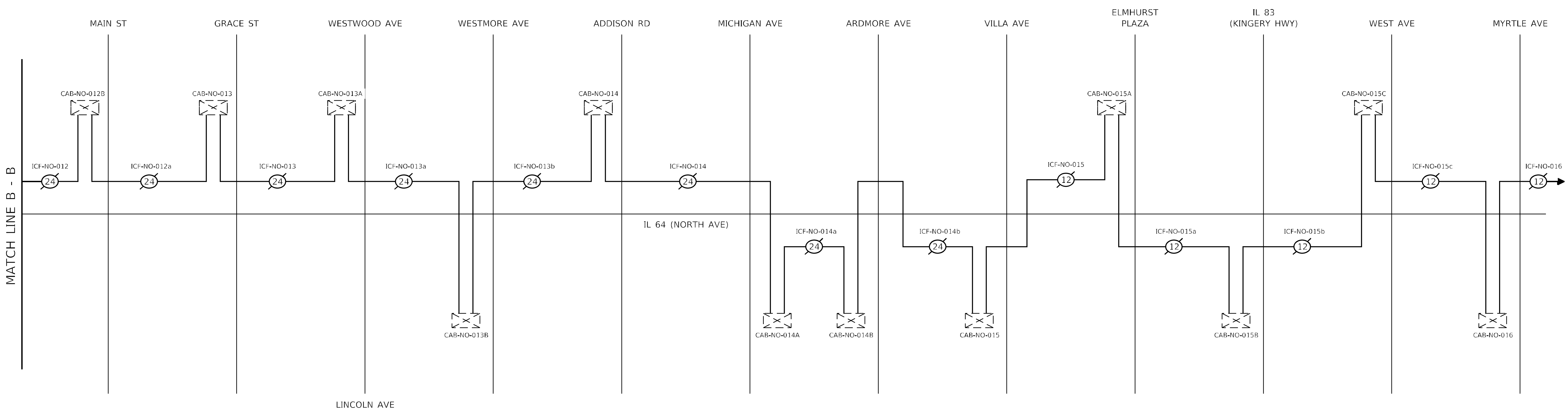



## LEGEND

| EXISTING TO REMAIN | EXISTING TO BE ABANDONED | |
|---|---|---|
| | | TRAFFIC SIGNAL CABINET |
| 12 | 12 | FIBER OPTIC CABLE (12MM STRANDS) AND TRACER CABLE NO. 14 1/C |
| 24 | 24 | FIBER OPTIC CABLE (12MM STRANDS / 12SM STRANDS) AND TRACER CABLE NO. 14 1/C |
| 36 | 36 | FIBER OPTIC CABLE (12MM STRANDS / 24SM STRANDS) AND TRACER CABLE NO. 14 1/C |
| 48 | 48 | FIBER OPTIC CABLE (48SM STRANDS) AND TRACER CABLE NO. 14 1/C |

NOTE:

1) EXISTING TRAFFIC SIGNAL INTERCONNECT TO REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION OF PROPOSED IMPROVEMENTS. CONTRACTOR TO COORDINATE WITH IDOT TO COMPLETE CUTOVER TO NEW TRAFFIC SIGNAL CONTROLLER ONCE NEW CONTROLLER HAS BEEN INSTALLED, CONFIGURED, AND CONNECTED TO THE NEW IDOT FIBER OPTIC COMMUNICATIONS BACKBONE CABLE INSTALLED AS PART OF THIS PROJECT. EXISTING TRAFFIC SIGNAL INTERCONNECT TO BE ABANDONED IN PLACE AFTER NEW TRAFFIC SIGNAL CONTROLLER HAS BEEN FULLY INTEGRATED INTO IDOT ATMS.

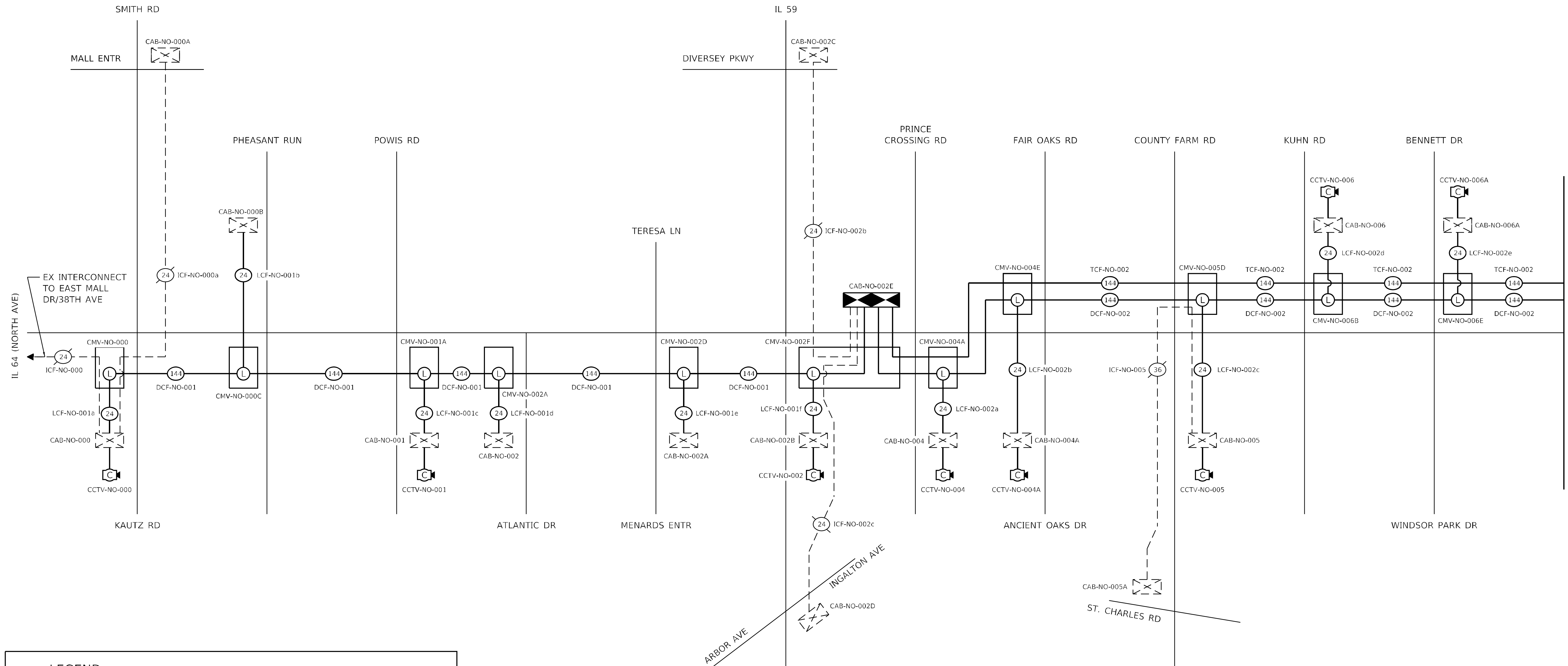



## LEGEND

| EXISTING TO REMAIN | EXISTING TO BE ABANDONED | |
|---|---|---|
| [cabinet symbol] | | TRAFFIC SIGNAL CABINET |
| 12 | 12 | FIBER OPTIC CABLE (12MM STRANDS) AND TRACER CABLE NO. 14 1/C |
| 24 | 24 | FIBER OPTIC CABLE (12MM STRANDS / 12SM STRANDS) AND TRACER CABLE NO. 14 1/C |
| 36 | 36 | FIBER OPTIC CABLE (12MM STRANDS / 24SM STRANDS) AND TRACER CABLE NO. 14 1/C |
| 48 | 48 | FIBER OPTIC CABLE (48SM STRANDS) AND TRACER CABLE NO. 14 1/C |

NOTE:

1) EXISTING TRAFFIC SIGNAL INTERCONNECT TO REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION OF PROPOSED IMPROVEMENTS. CONTRACTOR TO COORDINATE WITH IDOT TO COMPLETE CUTOVER TO NEW TRAFFIC SIGNAL CONTROLLER ONCE NEW CONTROLLER HAS BEEN INSTALLED, CONFIGURED, AND CONNECTED TO THE NEW IDOT FIBER OPTIC COMMUNICATIONS BACKBONE CABLE INSTALLED AS PART OF THIS PROJECT. EXISTING TRAFFIC SIGNAL INTERCONNECT TO BE ABANDONED IN PLACE AFTER NEW TRAFFIC SIGNAL CONTROLLER HAS BEEN FULLY INTEGRATED INTO IDOT ATMS.




## LEGEND

EXISTING PROPOSED

- FIBER OPTIC CABLE (XX = STRAND COUNT)
- OUTDOOR NETWORK CABLE
- LATERAL SPLICE LOCATION
- COMMUNICATIONS VAULT, HANDHOLE, OR JUNCTION BOX
- TRAFFIC SIGNAL CABINET
- ITS CABINET
- IDOT COMMUNICATIONS NODE
- CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN (CABINET)

NOTE: TRACER CABLE HAS BEEN OMITTED FOR PLAN CLARITY.

MODEL: Default
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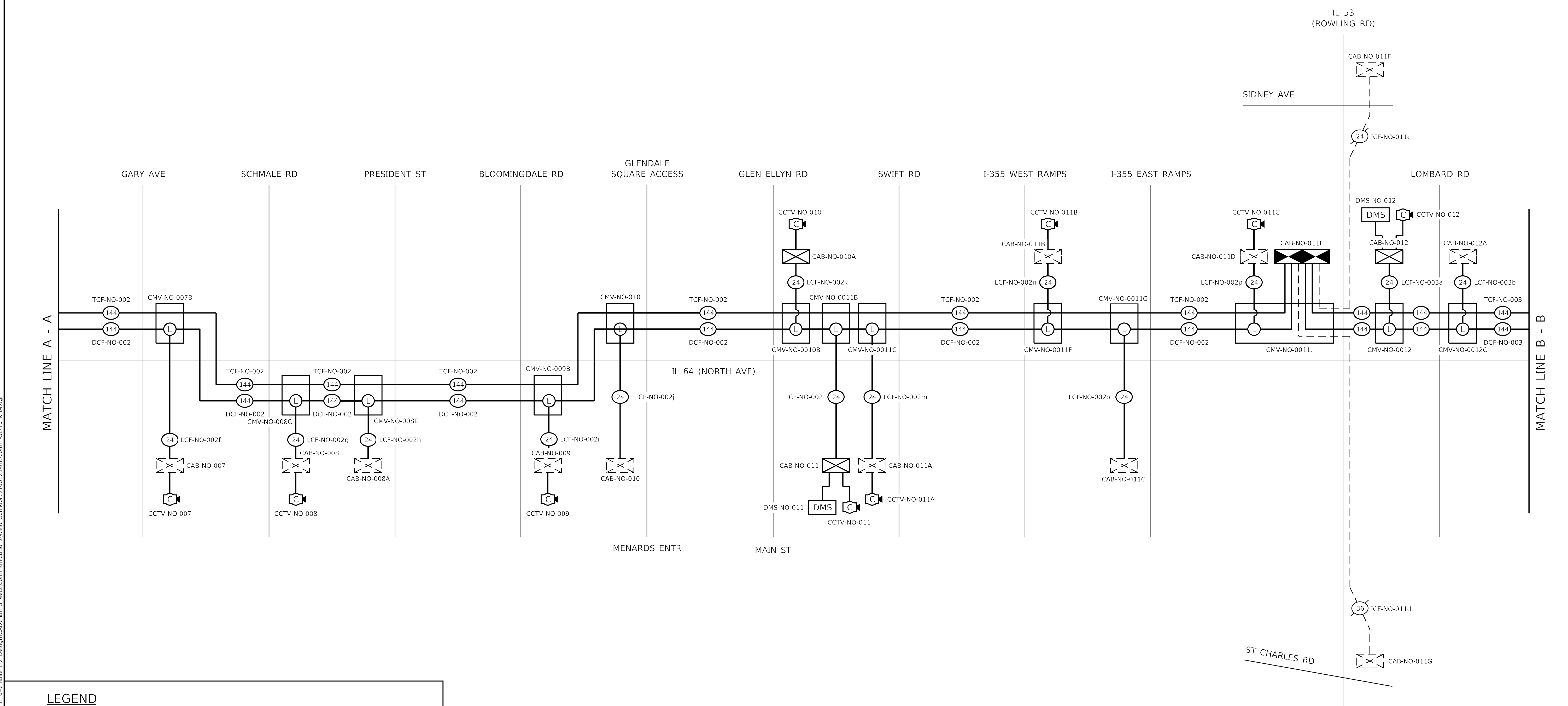
| PLOT DATE = | DATE - | REVISED - | |

**COMMUNICATIONS SINGLE LINE DIAGRAMS**
**FIBER OPTIC TRUNK, DISTRIBUTION, & LATERAL CABLE – INSTALLATION**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 349 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |




## LEGEND

| EXISTING | PROPOSED | |
|---|---|---|
| (XX) | (XX) | FIBER OPTIC CABLE (XX = STRAND COUNT) |
| | | OUTDOOR NETWORK CABLE |
| | (L) | LATERAL SPLICE LOCATION |
| | | COMMUNICATIONS VAULT, HANDHOLE, OR JUNCTION BOX |
| | | TRAFFIC SIGNAL CABINET |
| | | ITS CABINET |
| | | IDOT COMMUNICATIONS NODE |
| | (C) | CCTV CAMERA |
| | DMS | DYNAMIC MESSAGE SIGN (CABINET) |

NOTE: TRACER CABLE HAS BEEN OMITTED FOR PLAN CLARITY.

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|---|---|---|
| | DRAWN | REVISED - |
| PLOT SCALE = | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

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

**COMMUNICATIONS SINGLE LINE DIAGRAMS**
**FIBER OPTIC TRUNK, DISTRIBUTION, & LATERAL CABLE – INSTALLATION**

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

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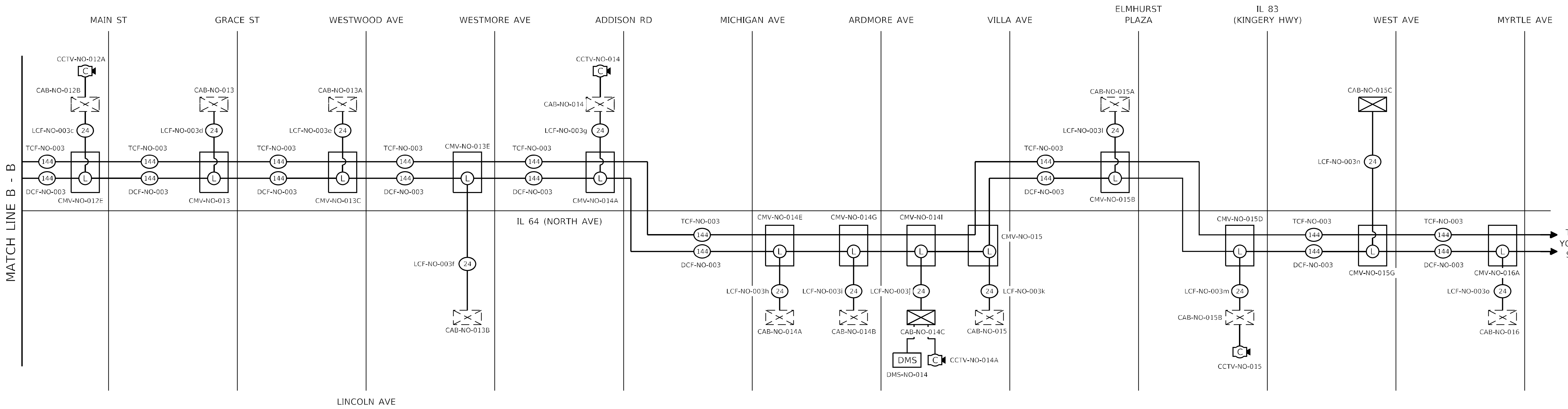
| | | ILLINOIS FED. AID PROJECT | | |




## LEGEND

EXISTING | PROPOSED

- FIBER OPTIC CABLE (XX = STRAND COUNT)
- OUTDOOR NETWORK CABLE
- LATERAL SPLICE LOCATION
- COMMUNICATIONS VAULT, HANDHOLE, OR JUNCTION BOX
- TRAFFIC SIGNAL CABINET
- ITS CABINET
- IDOT COMMUNICATIONS NODE
- CCTV CAMERA
- DMS DYNAMIC MESSAGE SIGN (CABINET)

NOTE: TRACER CABLE HAS BEEN OMITTED FOR PLAN CLARITY.

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| | DRAWN - | REVISED - | |
| PLOT SCALE = | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

**COMMUNICATIONS SINGLE LINE DIAGRAMS**
**FIBER OPTIC TRUNK, DISTRIBUTION, & LATERAL CABLE – INSTALLATION**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 351 |

CONTRACT NO. 62N33

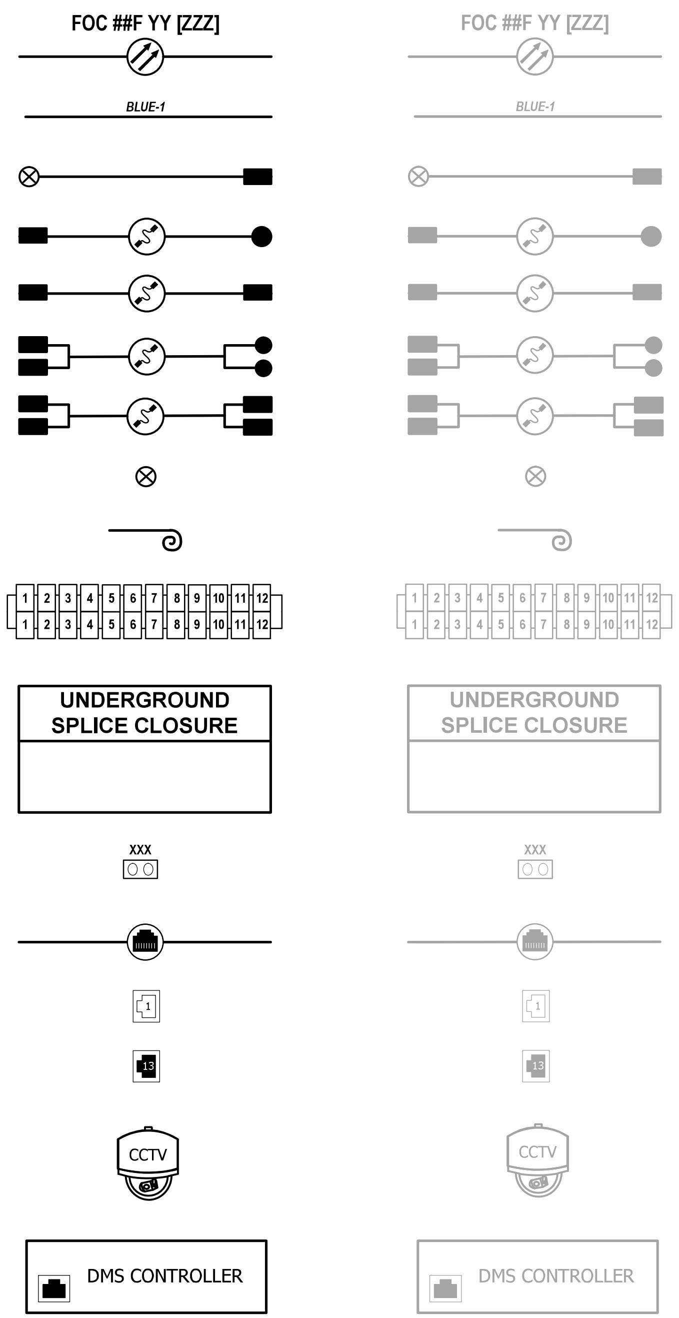
ILLINOIS | FED. AID PROJECT

MODEL: Default

# FIBER SPLICING AND CABINET CONNECTION DETAILS

## FIBER SPLICING AND CABINET CONNECTION DETAILS

PROPOSED | EXISTING TO REMAIN




- FIBER OPTIC CABLE (##F = STRAND COUNT, YY = FIBER TYPE, ZZZ = DESIGNATION)
- STRAND COLOR AND NUMBER
- FIBER OPTIC PIGTAIL, SINGLE MODE
- SIMPLEX FIBER OPTIC JUMPER, SINGLE MODE (PATCH PANEL TO DEVICE)
- SIMPLEX FIBER OPTIC JUMPER, SINGLE MODE (PATCH PANEL TO PATCH PANEL)
- DUPLEX FIBER OPTIC JUMPER, SINGLE MODE (PATCH PANEL TO DEVICE)
- DUPLEX FIBER OPTIC JUMPER, SINGLE MODE (PATCH PANEL TO PATCH PANEL)
- FIBER OPTIC FUSION SPLICE
- NON-TERMINATED FIBER STRAND
- FIBER PATCH PANEL MODULE (POSITION NUMBER INDICATED)
- UNDERGROUND FIBER OPTIC CABLE SPLICE CLOSURE
- FIBER OPTIC CABLE TRANCIEVER (XXX = DATA TRANSMISSION RATE
- ETHERNET CABLE
- RJ-45 ETHERNET PORT, UNUSED
- RJ-45 ETHERNET PORT, USED
- PAN-TILT-ZOOM CCTV CAMERA
- DYNAMIC MESSAGE SIGN CONTROLLER

## GENERAL NOTES

1) UNUSED PORTS ON ALL FIBER DISTRIBUTION PLANELS SHALL BE COVERED WITH A BLANK PANEL.

2) DARK FIBER OPTIC STRANDS AND TUBES SHALL PASS THROUGH SPLICE CLOSURES UNCUT.

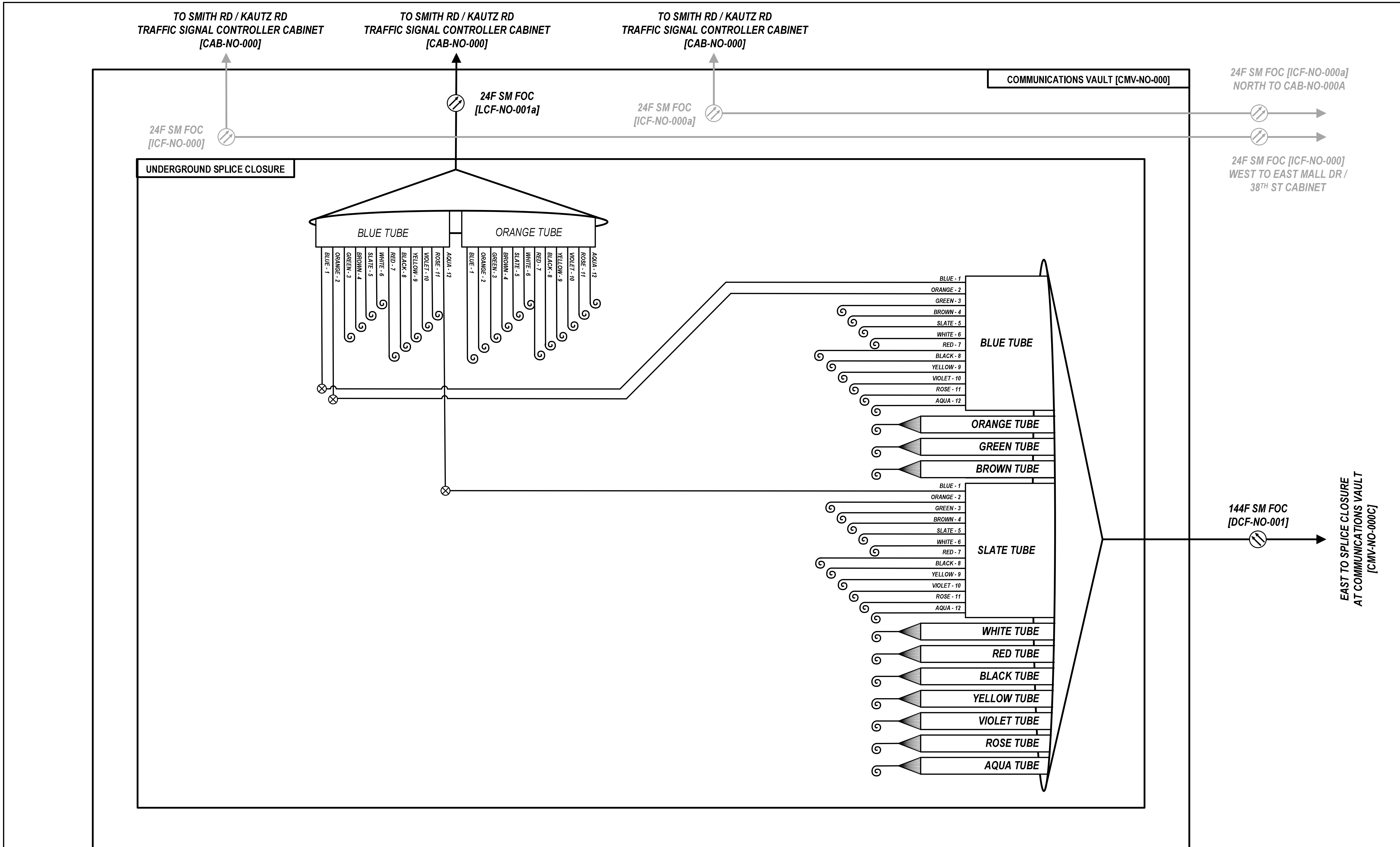
3) CONTRACTOR SHALL DETERMINE THE LOCATION OF END-OF-REEL SPLICES BASED UPON CABLE REEL SIZE PROCURED AND MAXIMUM DISTANCE THAT CAN BE PULLED WIHTOUT EXCEEDING MANUFACTURER SPECIFICATIONS FOR CABLE TENSION. END-OF-REEL SPLICES SHALL BE CO-LOCATED WITH LATERAL SPLICE LOCATIONS WHERE POSSIBLE. END-OF-REEL SPLICES ARE INCLUDED IN THE COST OF CABLE INSTALLATION AND WILL NOT BE PAID FOR SEPARATELYT. ONLY SPLICES BETWEEN THE 24-STRAND LATERAL FIBER CABLES AND 144-STRAND BACKBONE CABLE WILL BE PAID FOR ON A PER EACH BASIS. FUSION SPLICES TO FIBER OPTIC CABLE PIGTAILS IN FIBER DISTRIUBTION PANELS ARE INCLUDED IN THE COST OF CABLE TERMINATION.

4) UPON SUCCESSFUL INSTALLATION, SPLICING, AND TERMINATION OF ALL FIBER OPTIC CABLES, THE CONTRACTOR SHALL TEST EACH STRAND TO ENSURE THAT LOSS IS WITHIN ACCEPTABLE PARAMETERS PER THE PROJECT SPECIFICATIONS.

5) FIBER OPTIC TRANSCEIVERS INSTALLED IN LAYER II (DATALINK) SWITCHES SHALL HAVE DATA TRANSMISSION RATES OF 1 GBPS OR AS NOTED IN THE PLANS. ALL FIBER OPTIC TRANCIEVERS SHALL MEET MINIMUM SWITCH MANUFACTURER SPECIFICATIONS OR THOSE INCLUDED IN THE PROJECT SPECIFICATIONS, WHICHEVER IS OF GREATER PERFORMANCE.

6) FIBER OPTIC TRANSCEIVERS INSTALLED IN LAYER III SWITCHES FOR CONNECTION TO LAYER II (DATALINK) SWITCHES SHALL HAVE DATA TRANSMISSION RATES OF 1 GBPS OR AS NOTED IN THE PLANS. ALL FIBER OPTIC TRANCIEVERS SHALL MEET MINIMUM SWITCH MANUFACTURER SPECIFICATIONS OR THOSE INCLUDED IN THE PROJECT SPECIFICATIONS, WHICHEVER IS OF GREATER PERFORMANCE.

7) FIBER OPTIC TRANSCEIVERS INSTALLED IN LAYER III (NETWORK) SWITCHES FOR CONNECTION TO OTHER LAYER III (NETWORK) SWITCHES SHALL HAVE DATA TRANSMISSION RATES OF 10 GBPS OR AS NOTED IN THE PLANS. ALL FIBER OPTIC TRANCIEVERS SHALL MEET MINIMUM SWITCH MANUFACTURER SPECIFICATIONS OR THOSE INCLUDED IN THE PROJECT SPECIFICATIONS, WHICHEVER IS OF GREATER PERFORMANCE.




D108121-sht-comm-visio

Kimley»Horn

| USER NAME = | DESIGNED - | REVISED - |
|---|---|---|
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

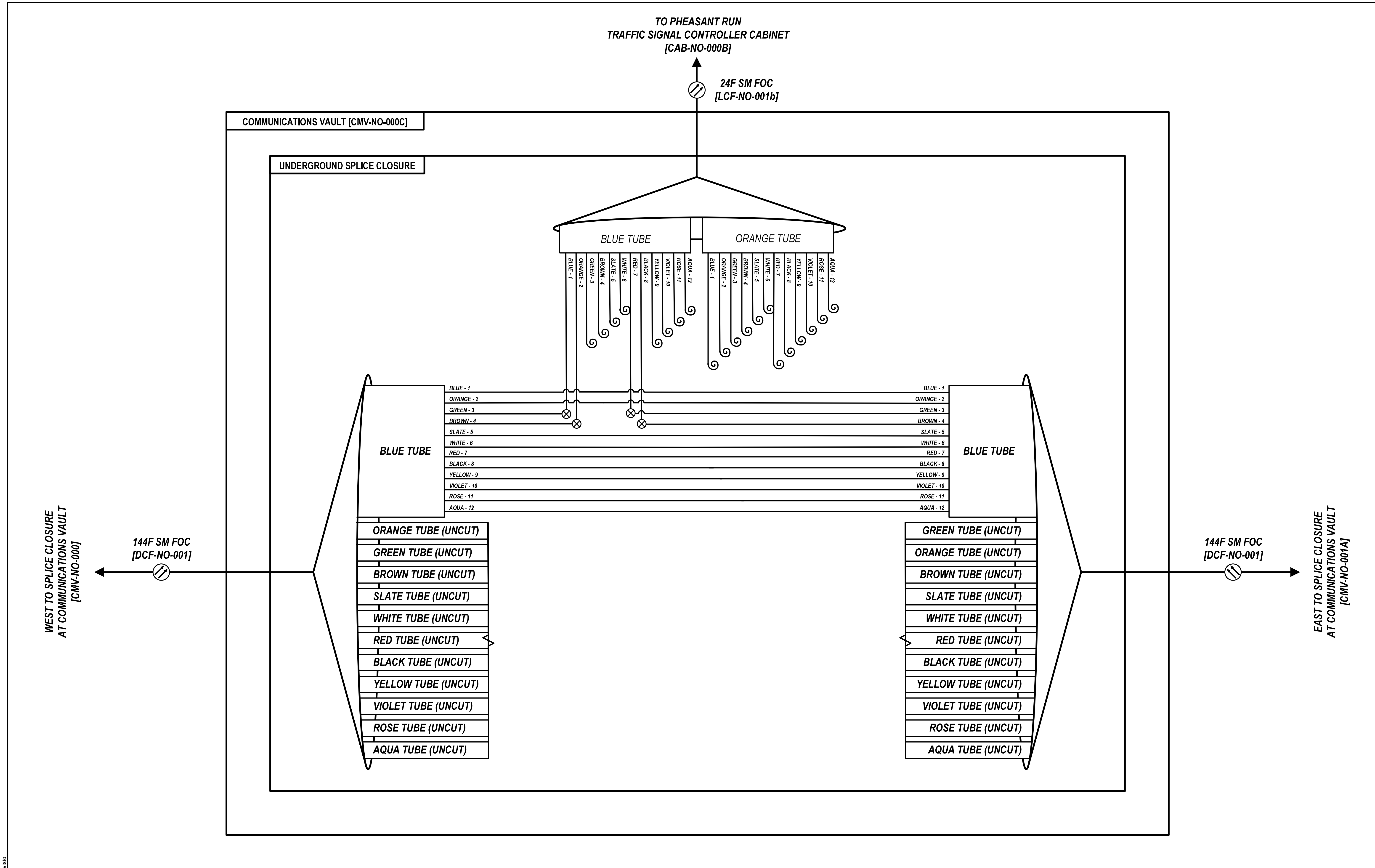
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-000]**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 353 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS | FED. AID PROJECT




D108121-sht-comm-visio

Kimley»Horn

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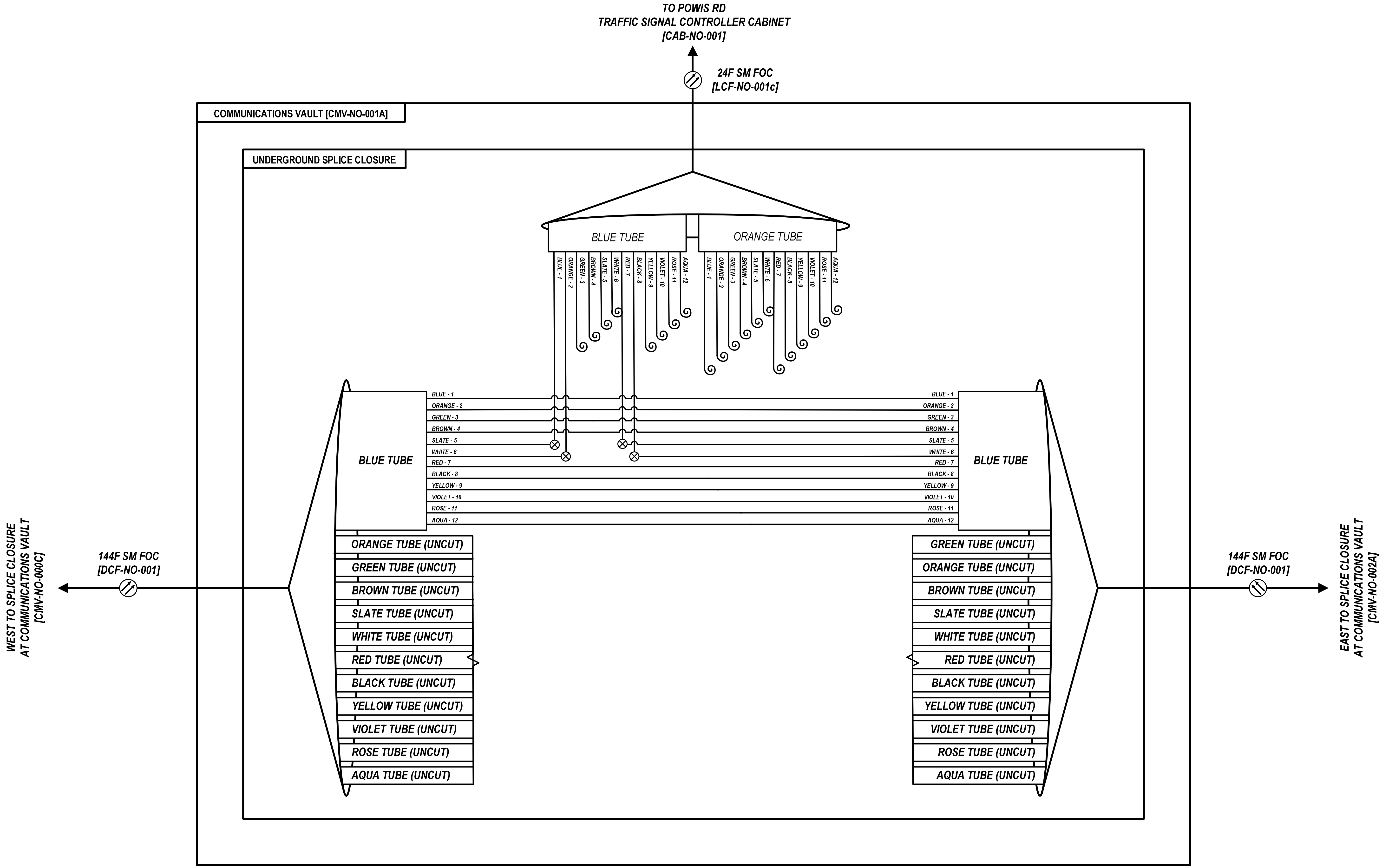
|---|---|---|---|
| USER NAME = | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

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

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-000C]**

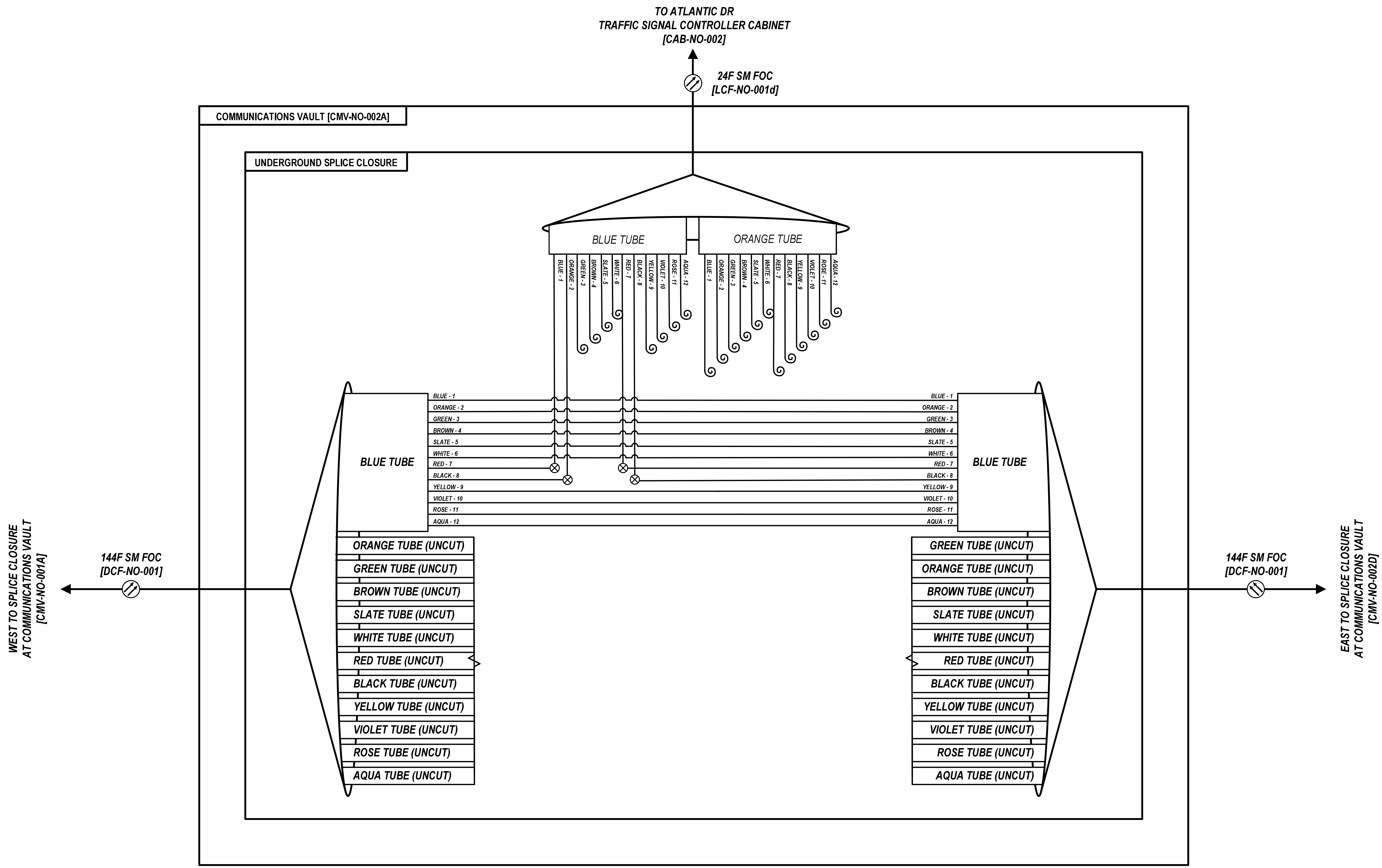
SCALE: | SHEET OF SHEETS | STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 354 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |




D108121-sht-comm-visio

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS<br>COMMUNICATIONS VAULT [CMV-NO-001A] | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS / SHEET NO. |
| | | DRAWN - | REVISED - | | | 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 / 355 |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | | | CONTRACT NO. 62N33 | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: / SHEET OF SHEETS / STA. TO STA. | | ILLINOIS / FED. AID PROJECT | | |




D108121-sht-comm-visio

Kimley»Horn

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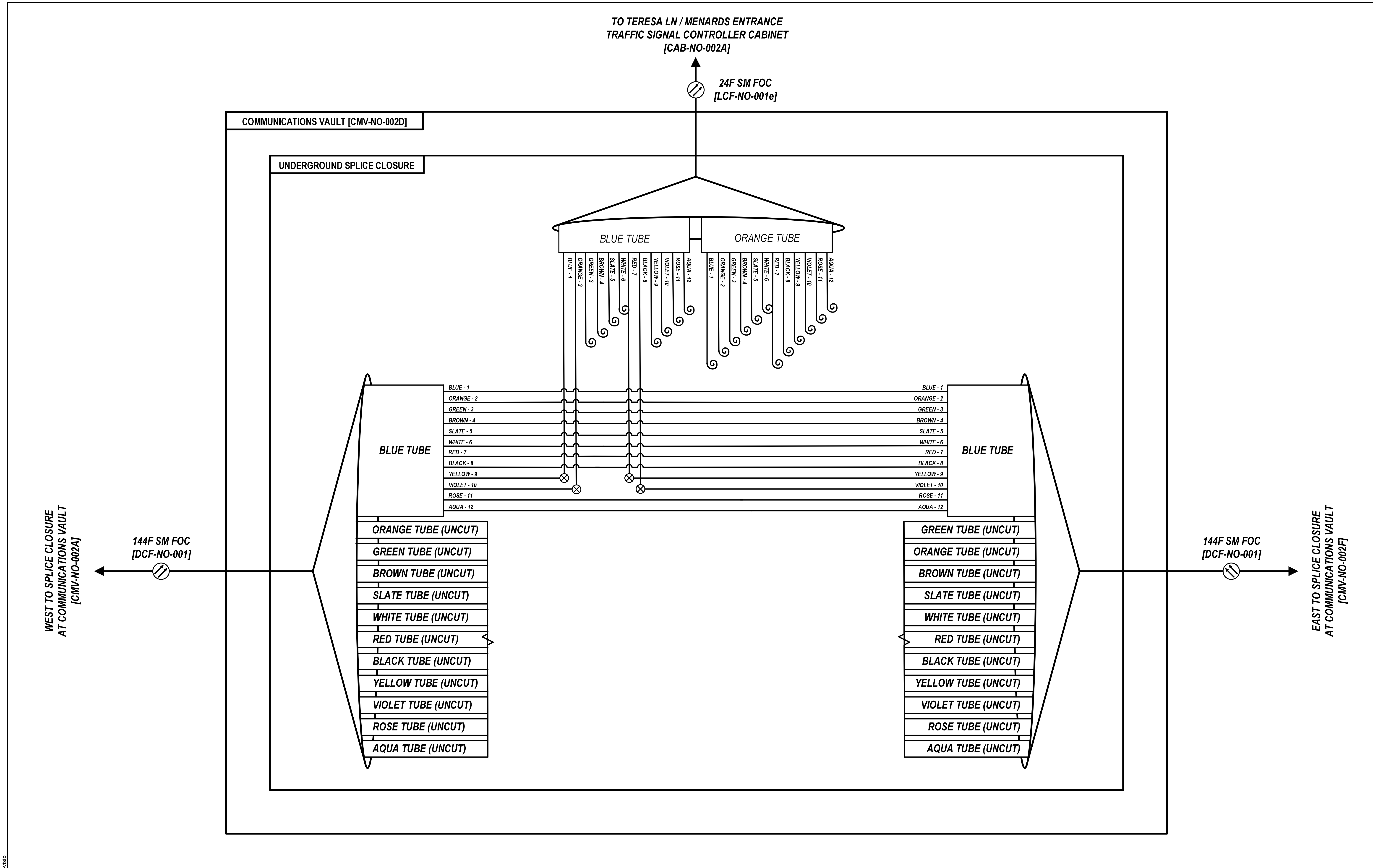
|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

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

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-002A]**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 356 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |




D108121-sht-comm-visio

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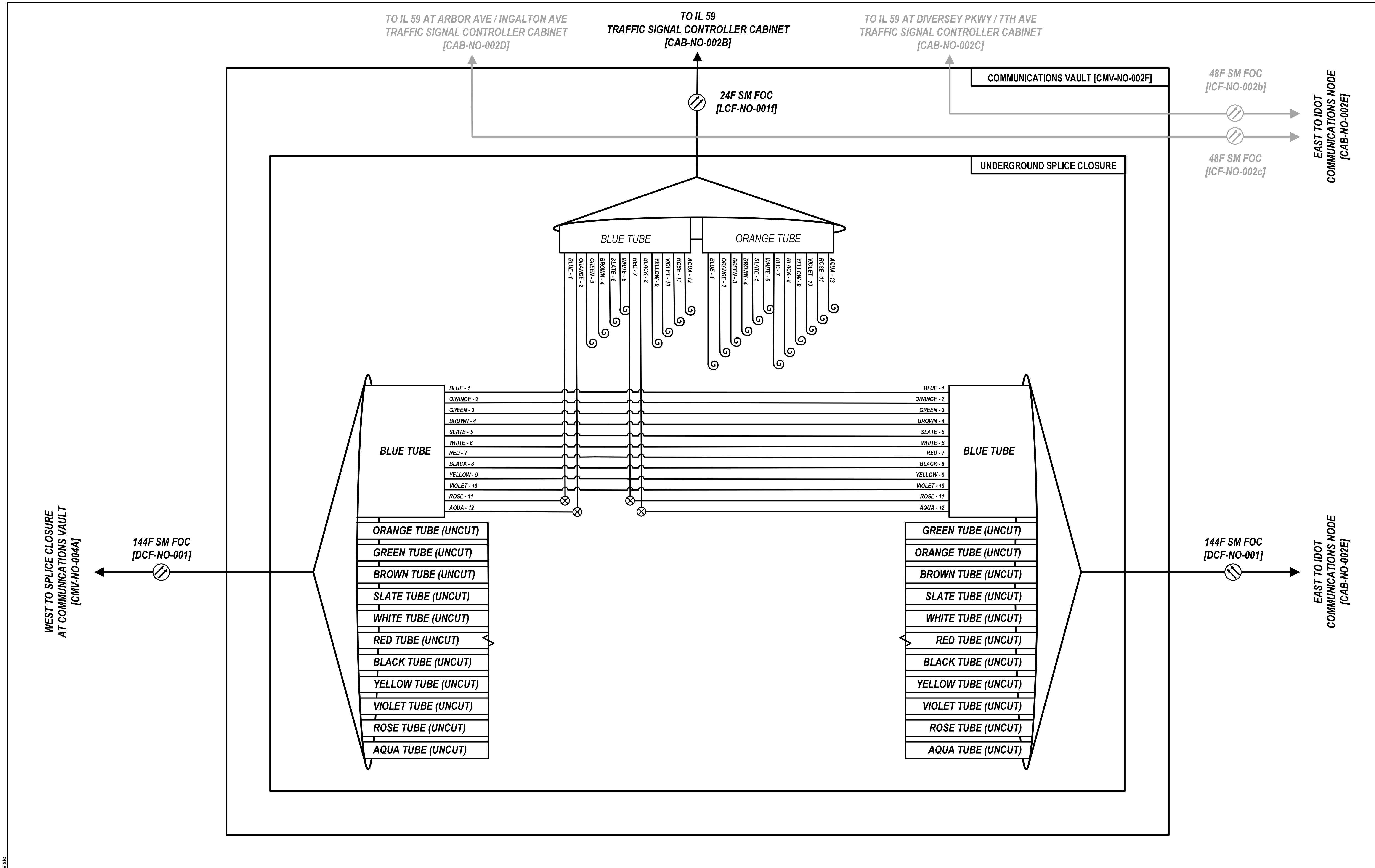
|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-002D] |
| | | DRAWN - | REVISED - | | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 357 |
| | | CONTRACT NO. 62N33 | | |
| ILLINOIS | FED. AID PROJECT | | | |




D108121-sht-comm-visio

Kimley»Horn

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|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

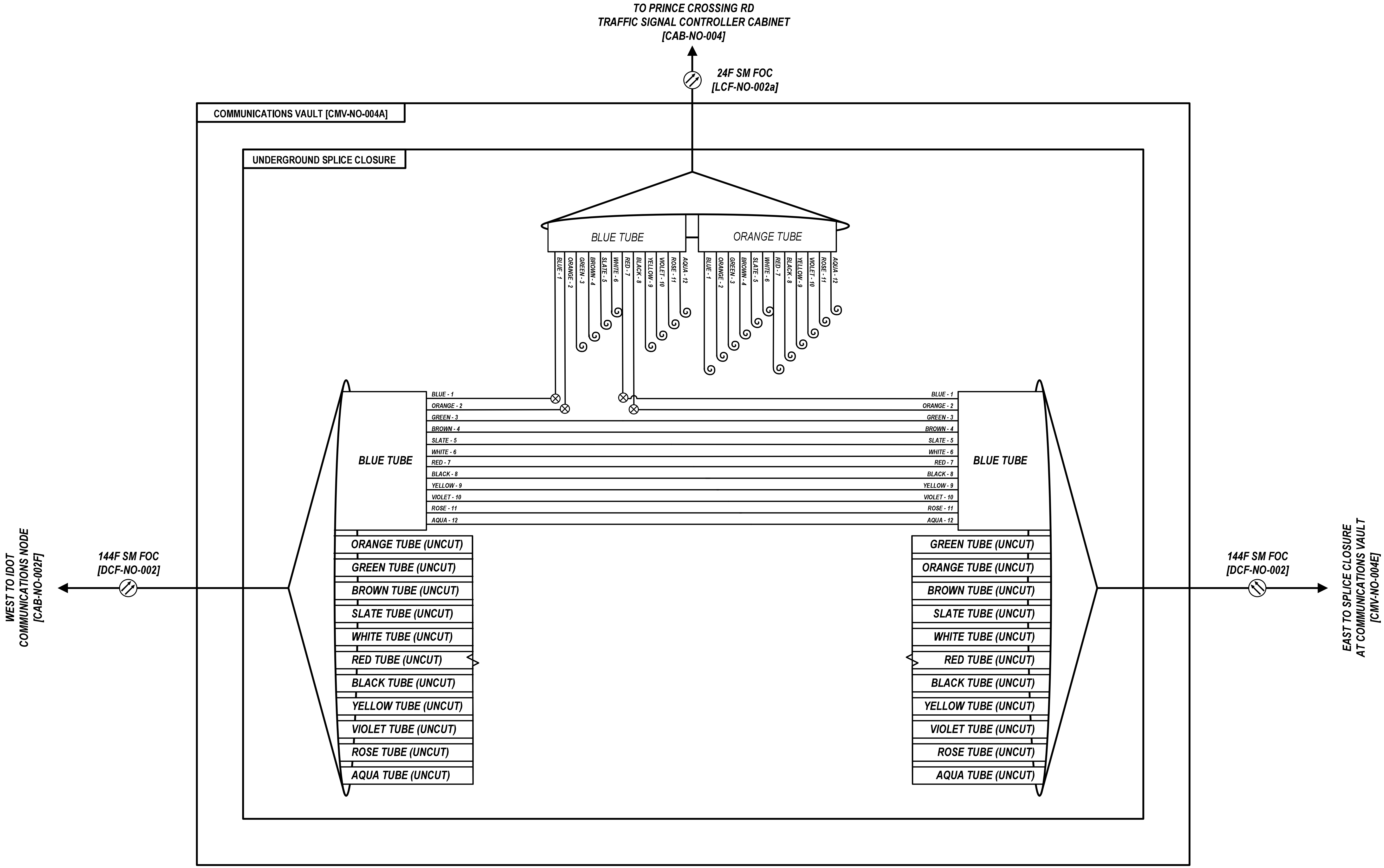
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-002F]**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 358 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS FED. AID PROJECT




D108121-sht-comm-visio

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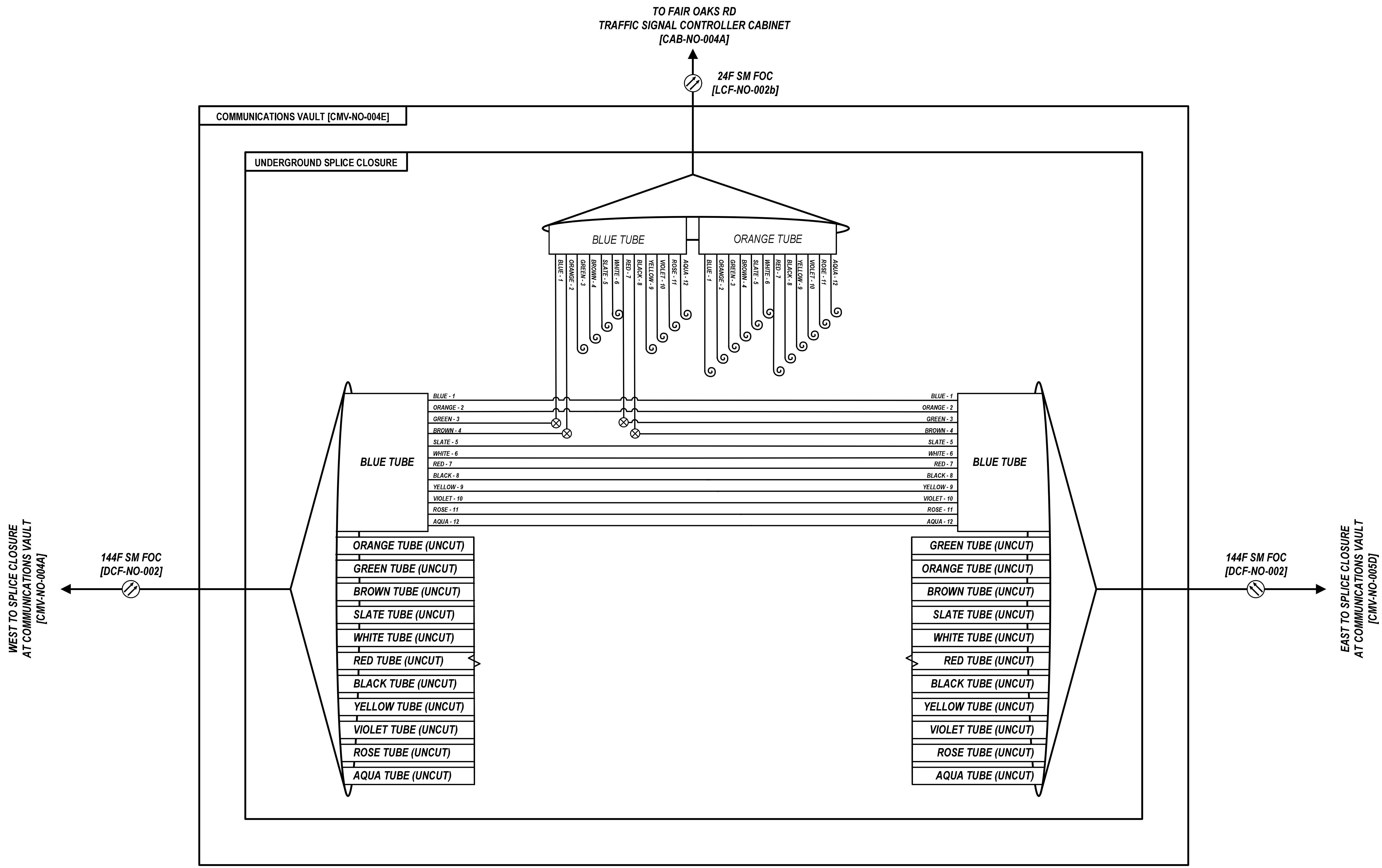
|---|---|---|---|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS<br>COMMUNICATIONS VAULT [CMV-NO-004A] | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - | REVISED - | | | 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 359 |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | | | CONTRACT NO. 62N33 | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | | ILLINOIS FED. AID PROJECT | | | |




D108121-sht-comm-visio

Kimley»Horn

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|---|---|---|---|
| USER NAME = | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

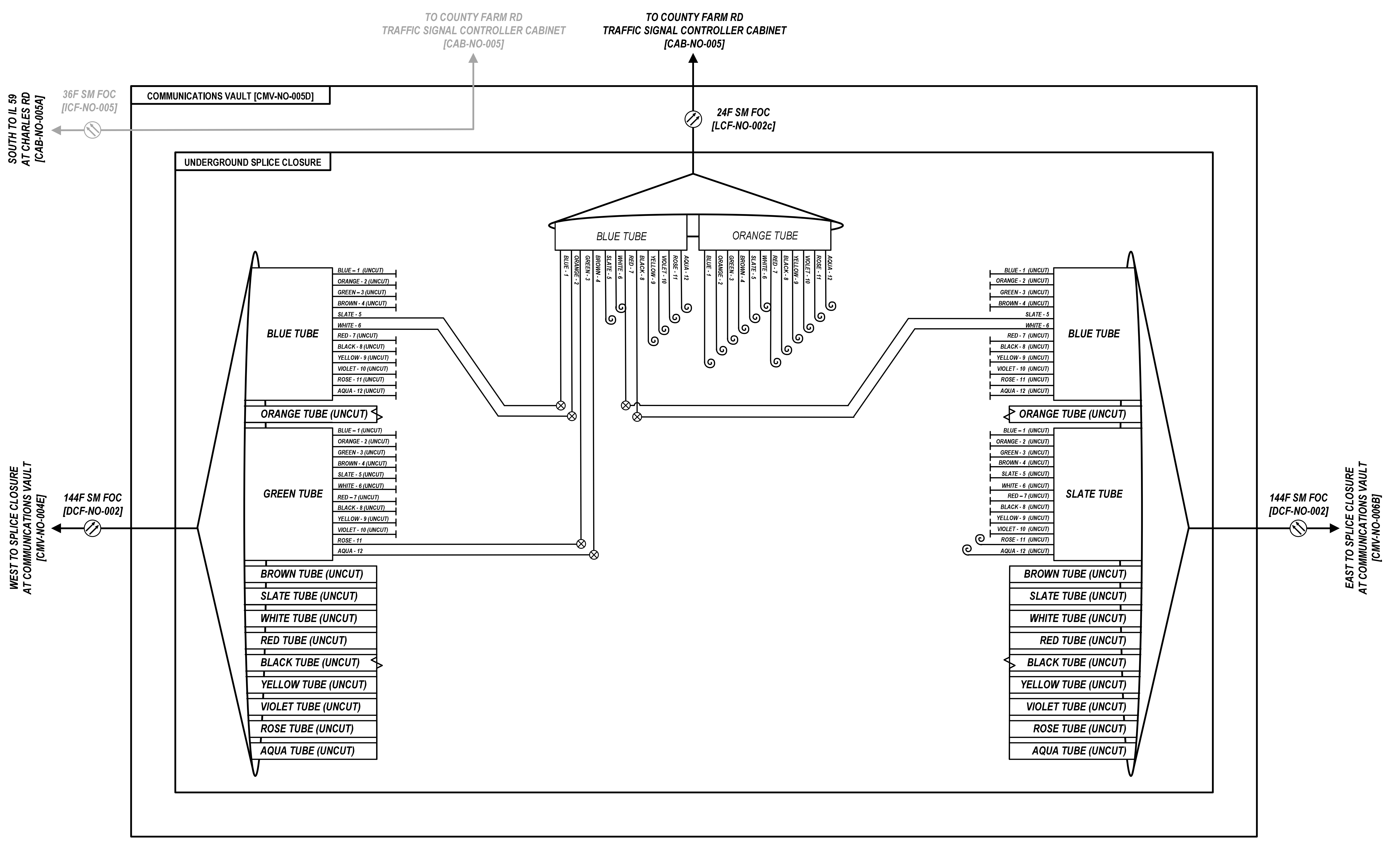
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-004E]**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 360 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS | FED. AID PROJECT




D108121-sht-comm-visio

Kimley»Horn

| USER NAME = | DESIGNED - | REVISED - |
|---|---|---|
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

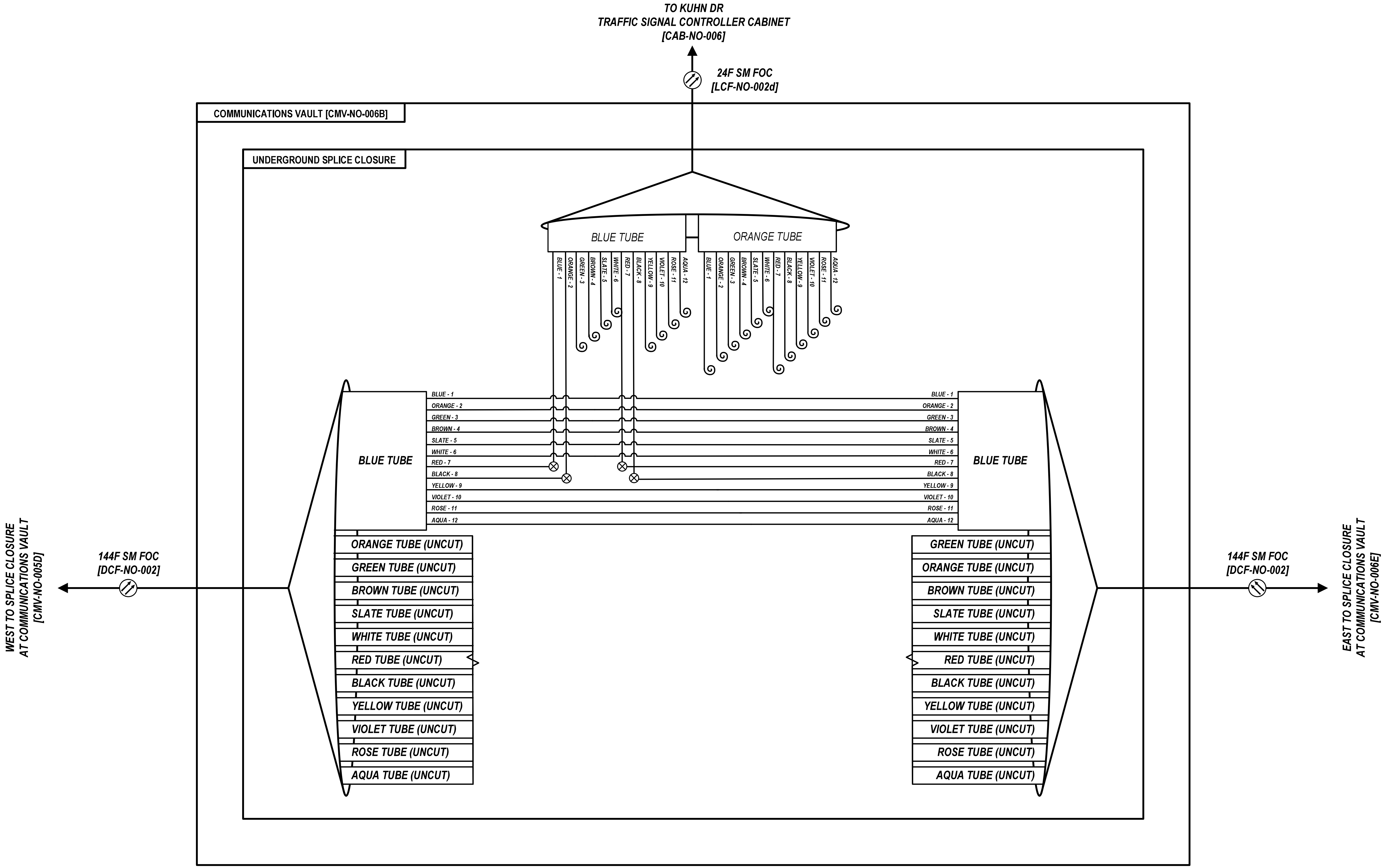
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-005D]**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 361 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS FED. AID PROJECT

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Kimley»Horn

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|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

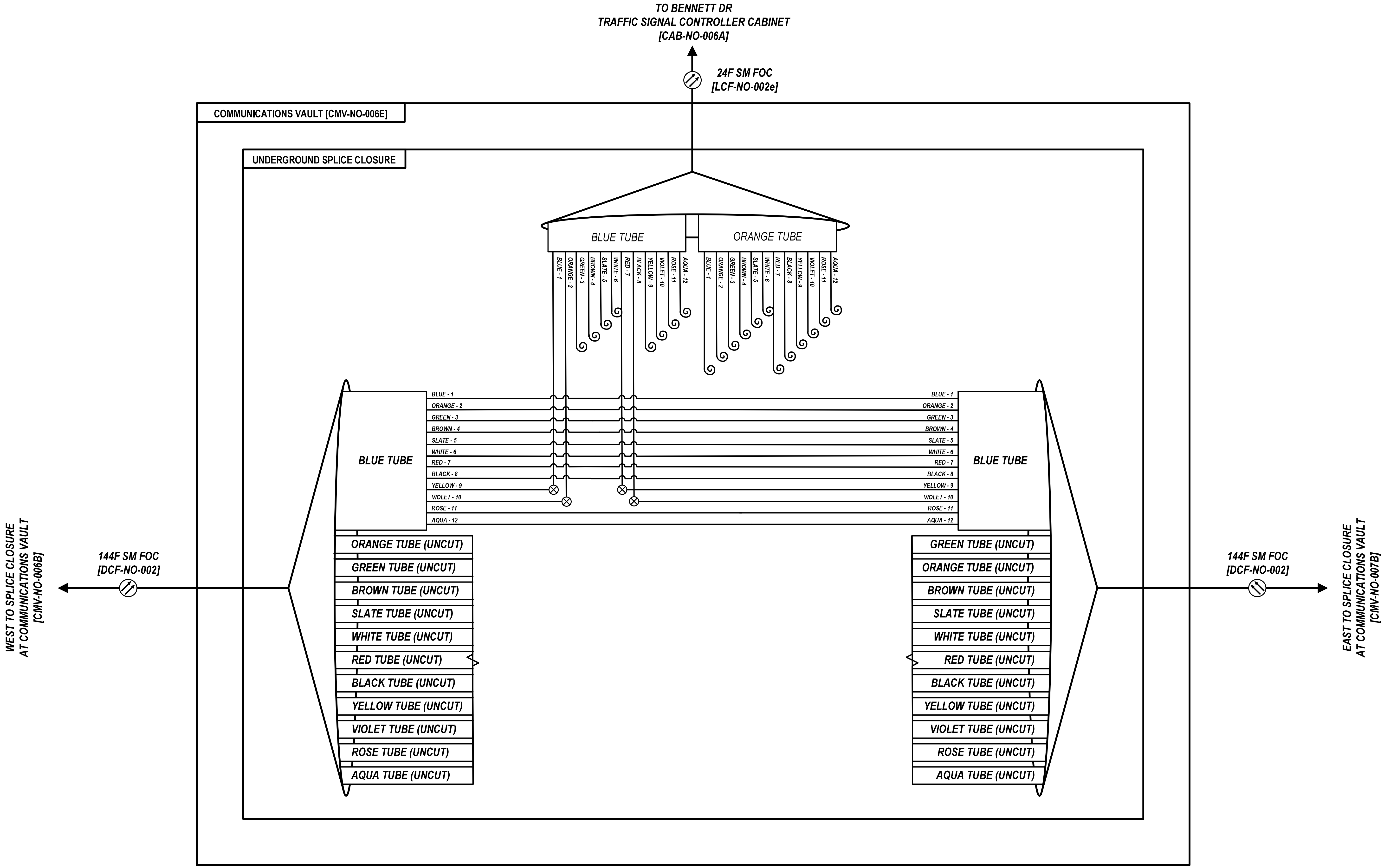
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-006B]**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 362 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS FED. AID PROJECT




D108121-sht-comm-visio

Kimley»Horn

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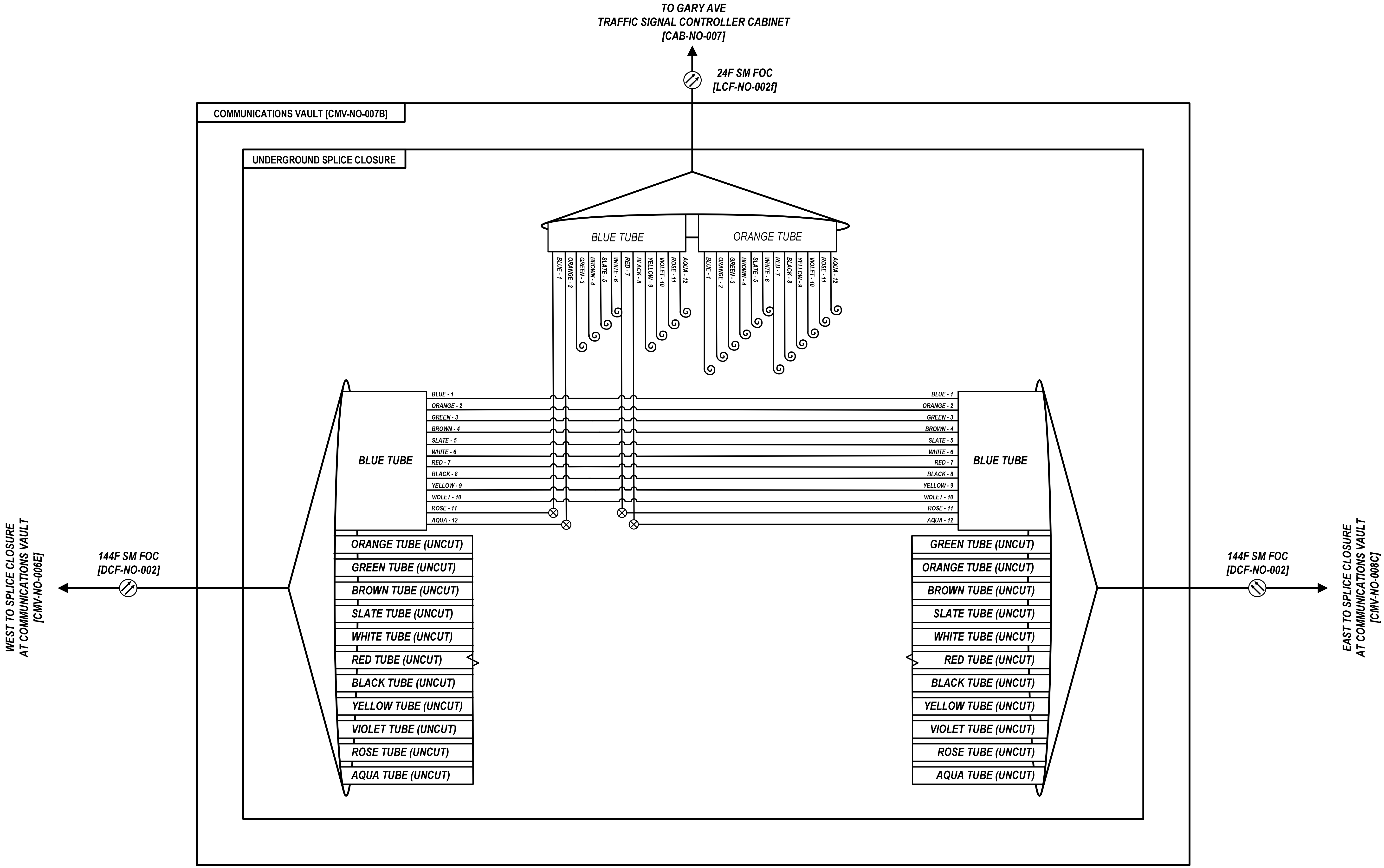
|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

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

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-006E]**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 363 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |




D108121-sht-comm-visio

Kimley»Horn

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|---|---|---|---|
| USER NAME = | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

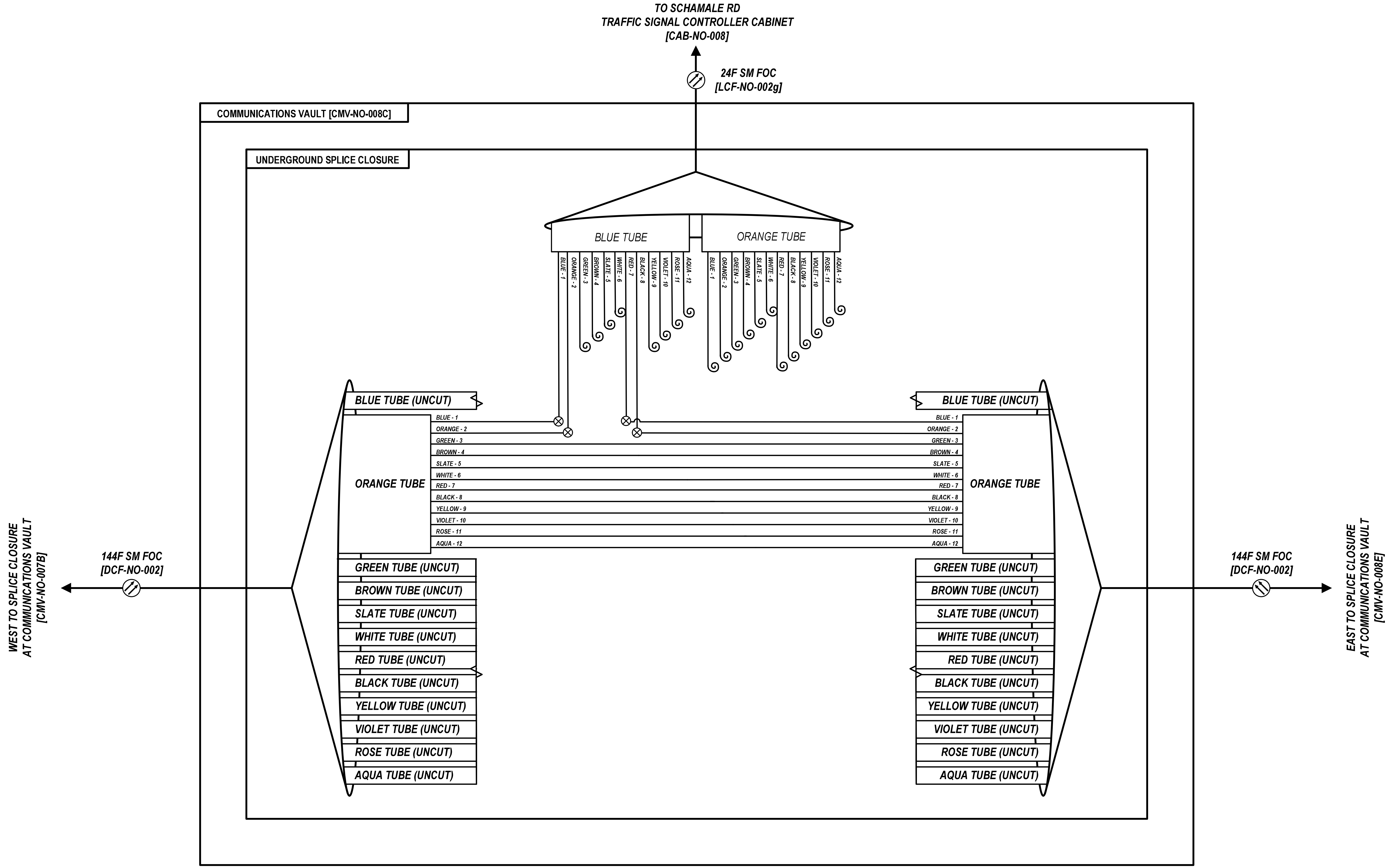
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-007B]**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 364 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS | FED. AID PROJECT

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|---|---|---|---|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS<br>COMMUNICATIONS VAULT [CMV-NO-008C] | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - | REVISED - | | | 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 365 |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | | | CONTRACT NO. 62N33 | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | | ILLINOIS FED. AID PROJECT | | | |

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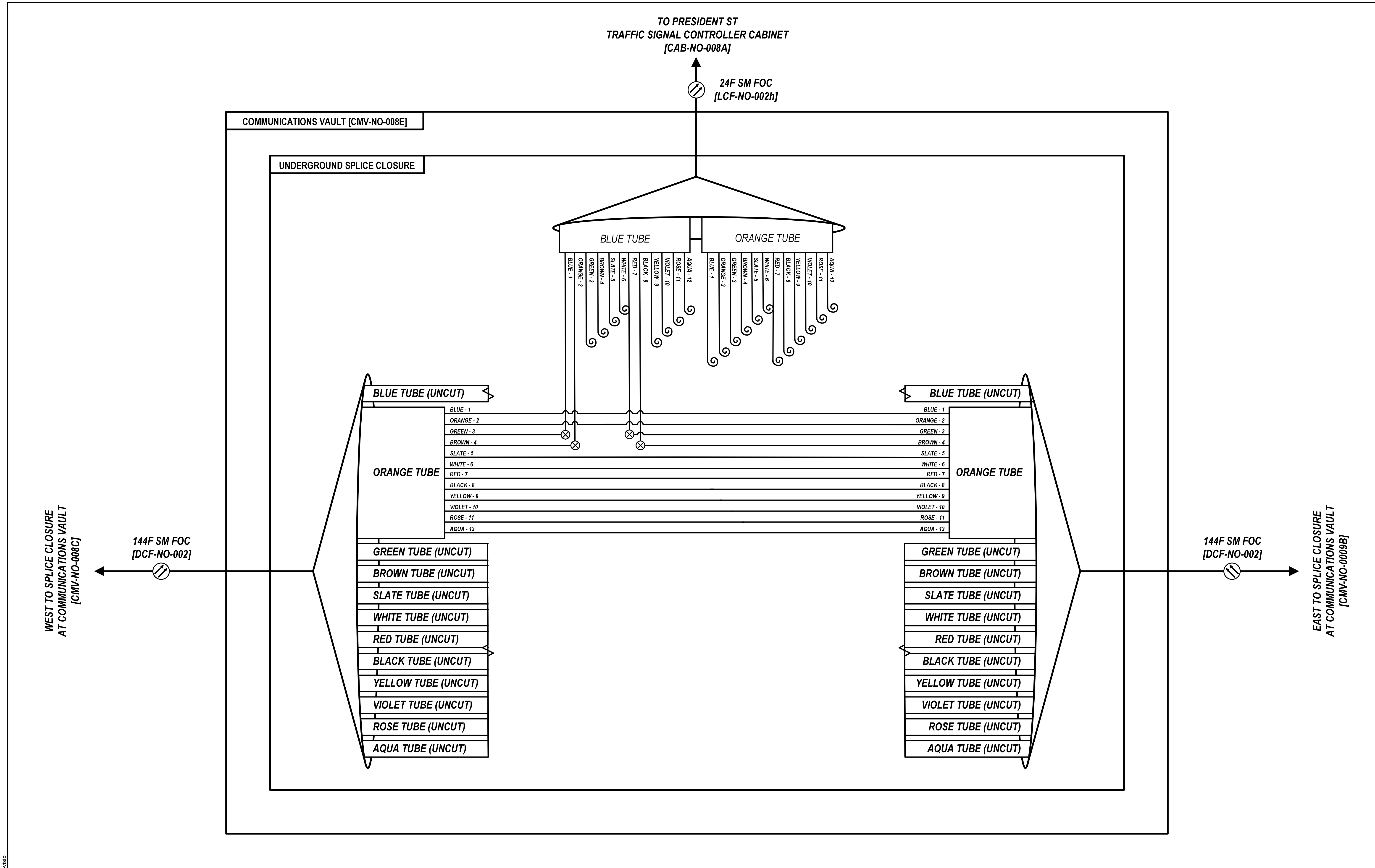


D108121-sht-comm-visio

Kimley»Horn

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|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

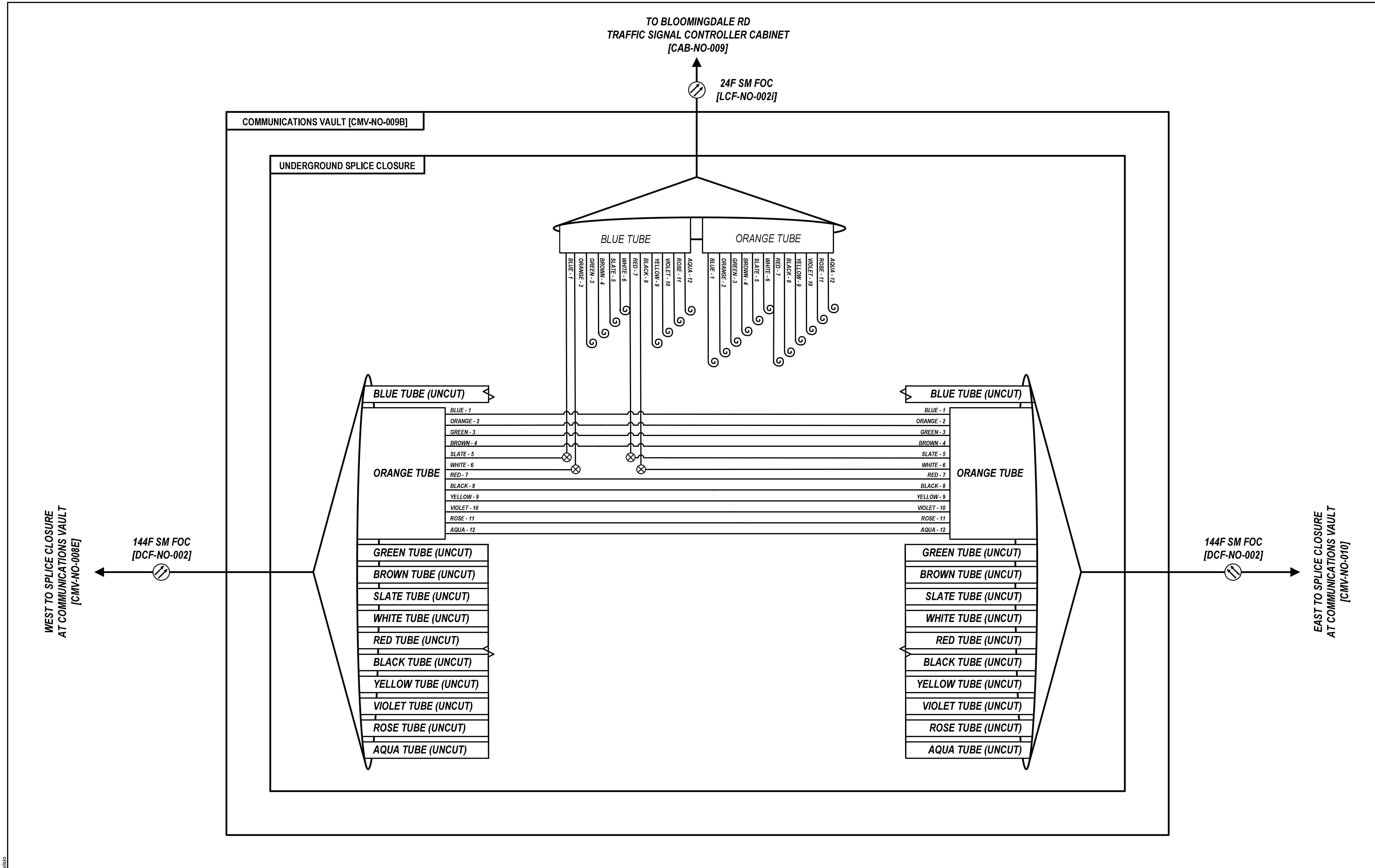
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-008E]**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 366 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS | FED. AID PROJECT




D108121-sht-comm-visio

Kimley»Horn

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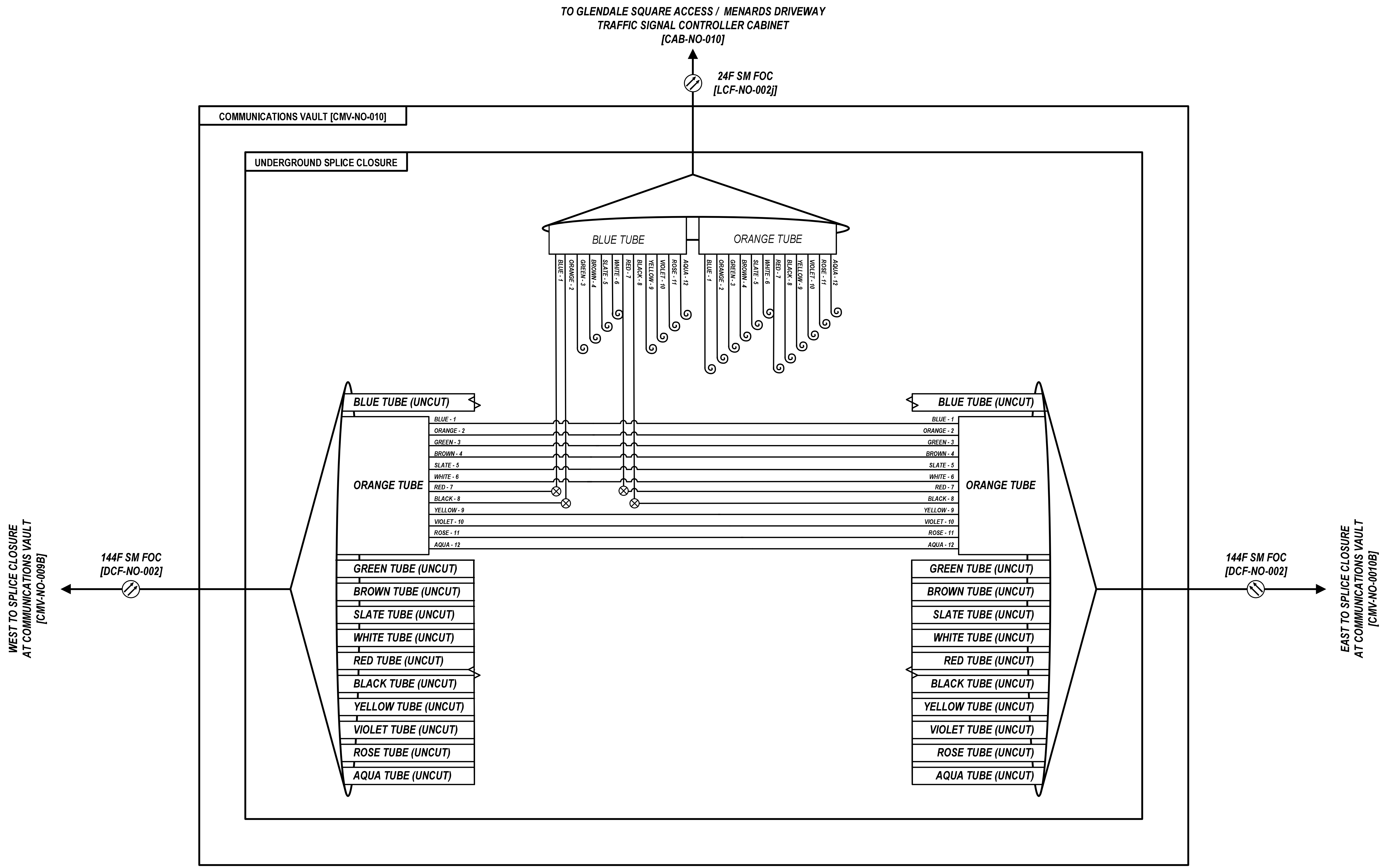
|---|---|---|---|
| USER NAME = | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

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

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-009B]**

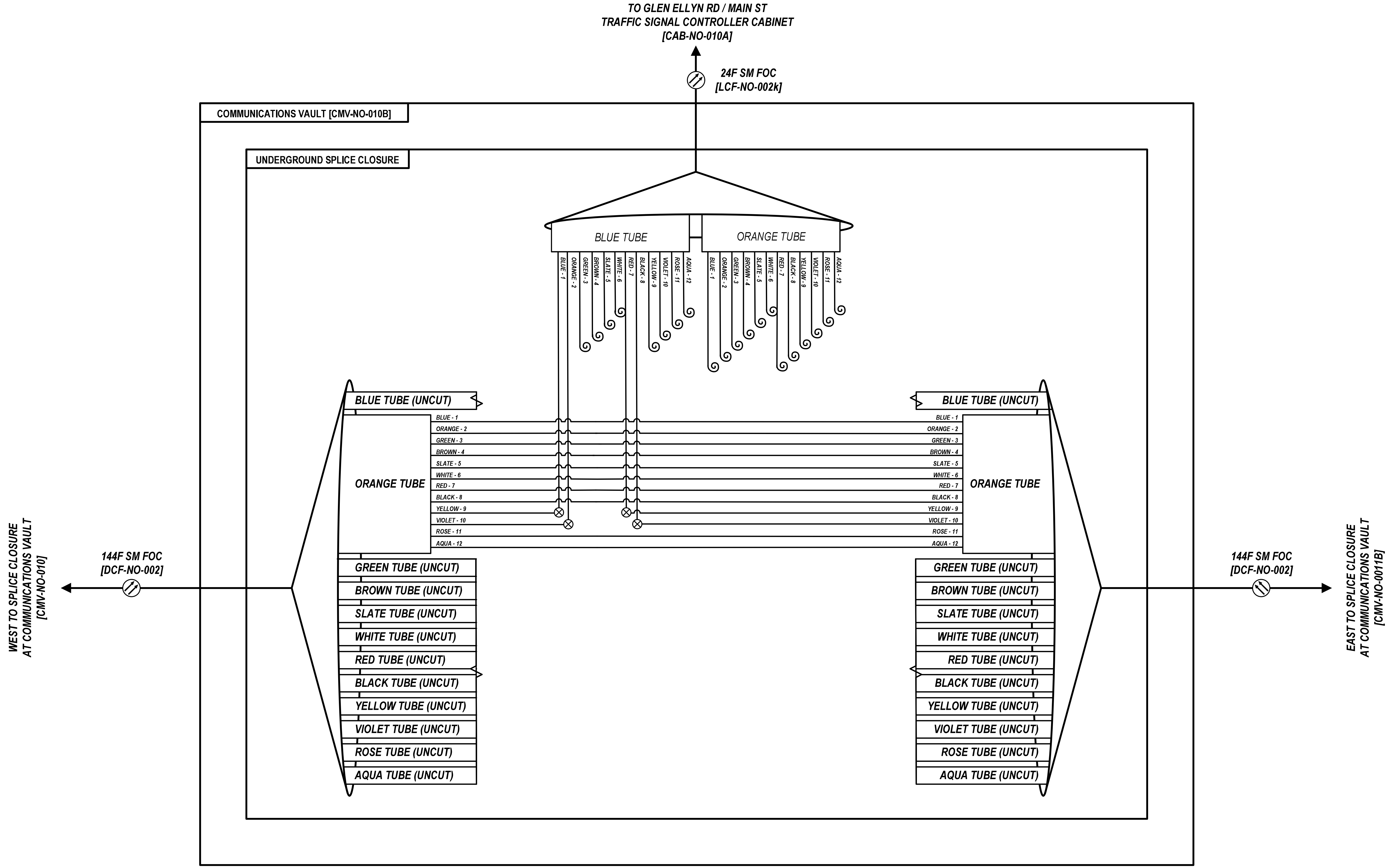
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 367 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |




D108121-sht-comm-visio

| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-010] | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | DRAWN - | REVISED - | | | 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 368 |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | CONTRACT NO. 62N33 | | | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | ILLINOIS FED. AID PROJECT | | | | |

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Kimley»Horn

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|---|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

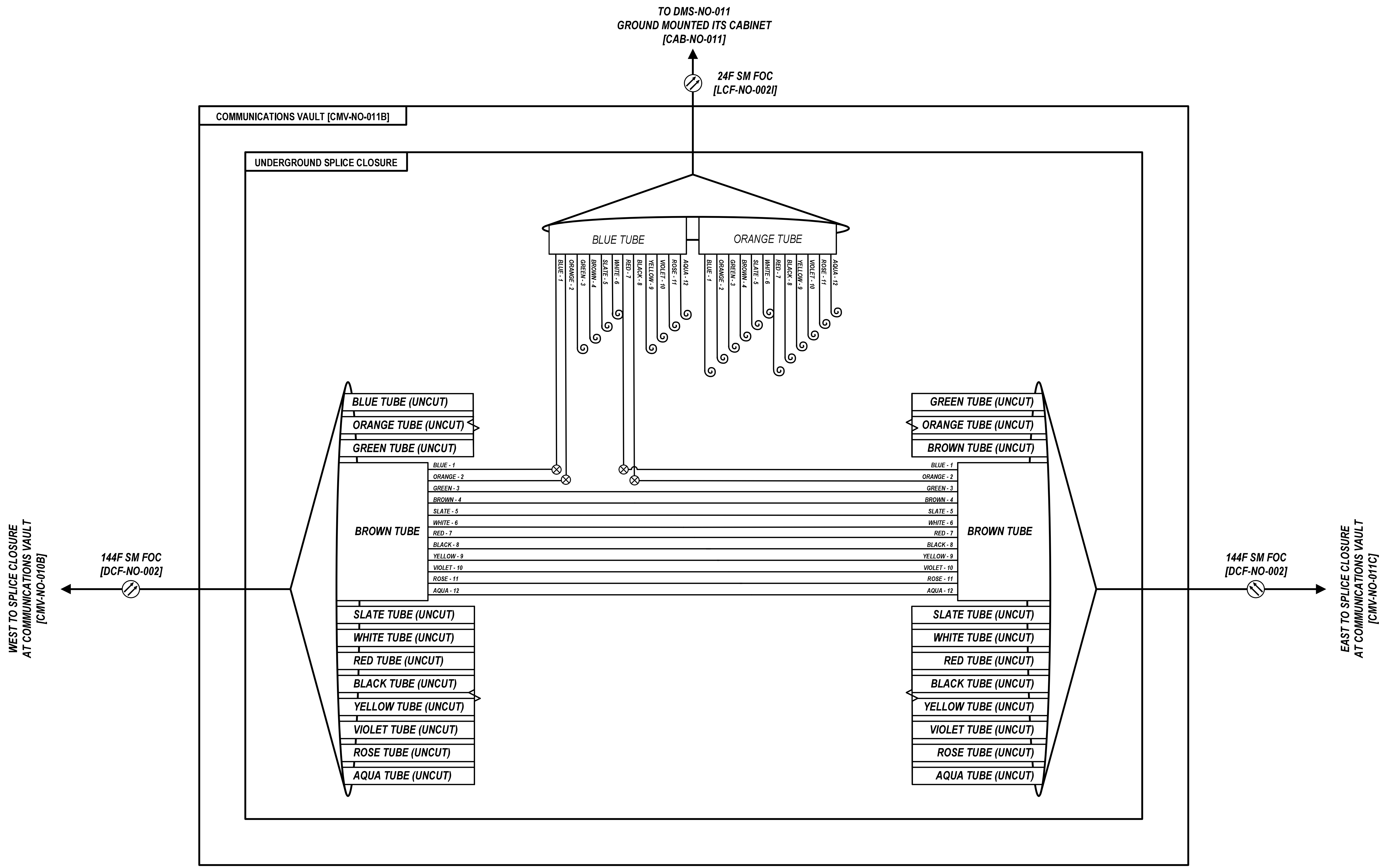
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING AND CABINET CONNECTION DETAILS
COMMUNICATIONS VAULT [CMV-NO-010B]

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 369 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS FED. AID PROJECT




D108121-sht-comm-visio

Kimley»Horn

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|---|---|---|---|
| USER NAME = | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

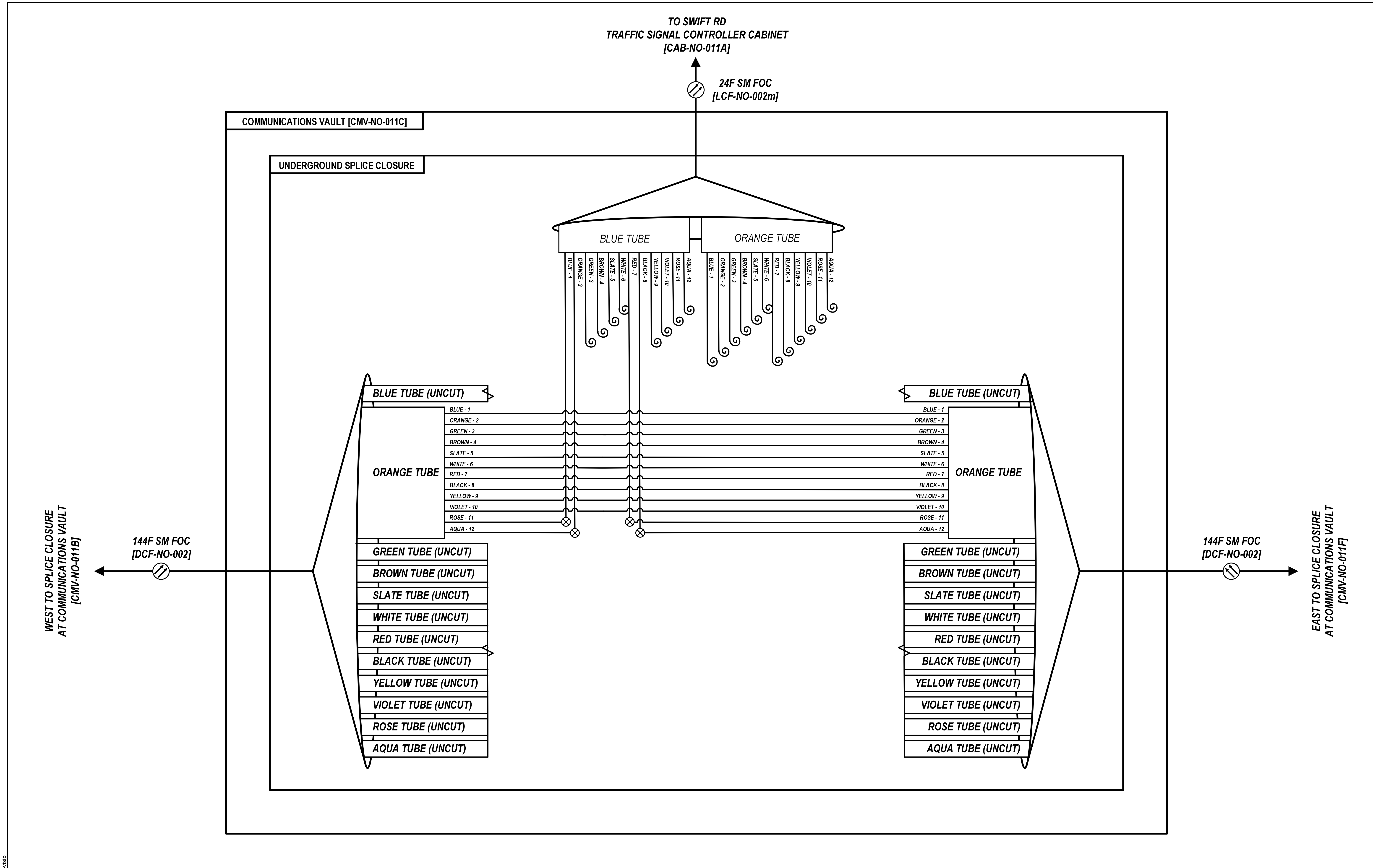
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-011B]**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 370 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS | FED. AID PROJECT

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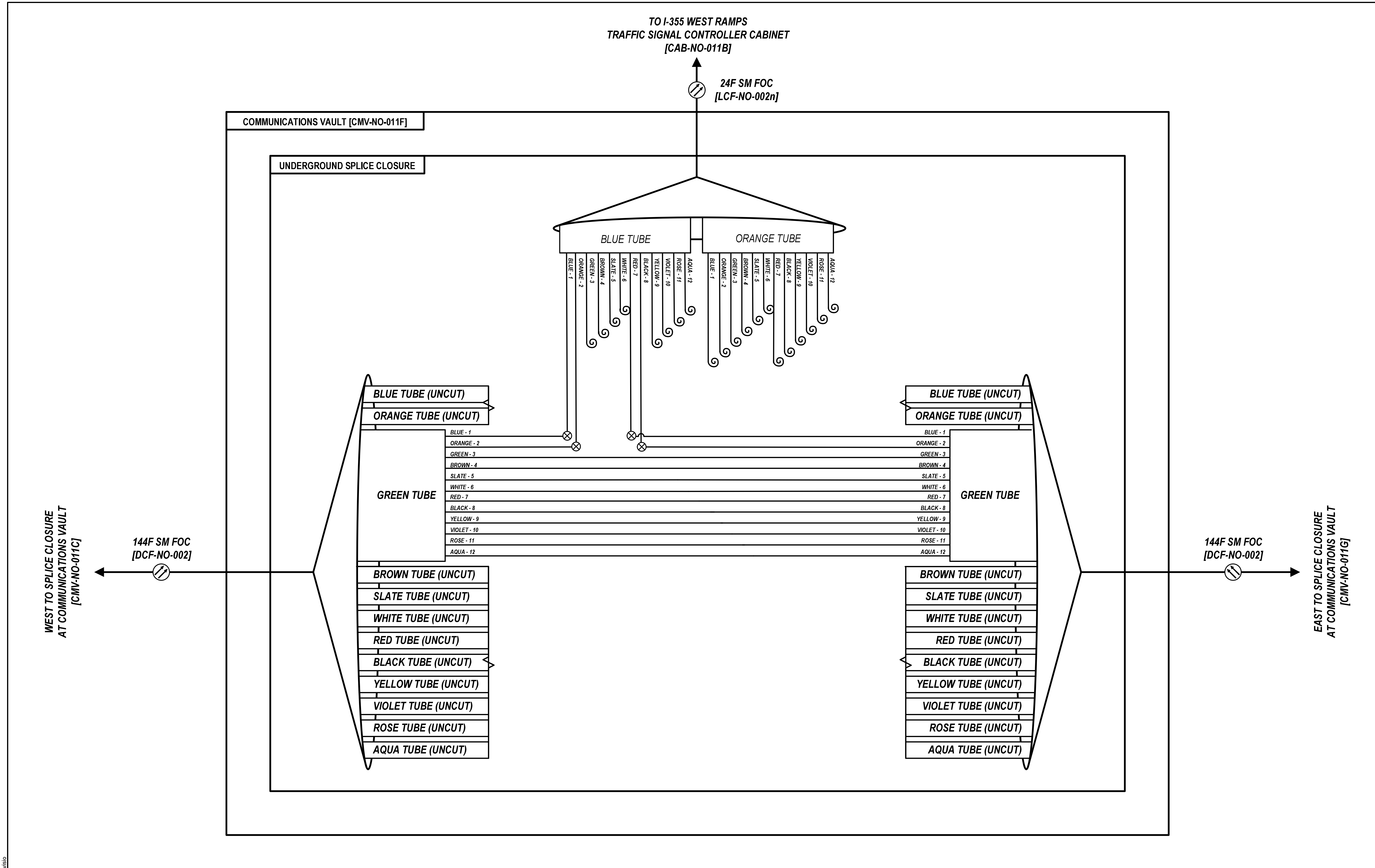
|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-011C] | |
| | | DRAWN - | REVISED - | | | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | |

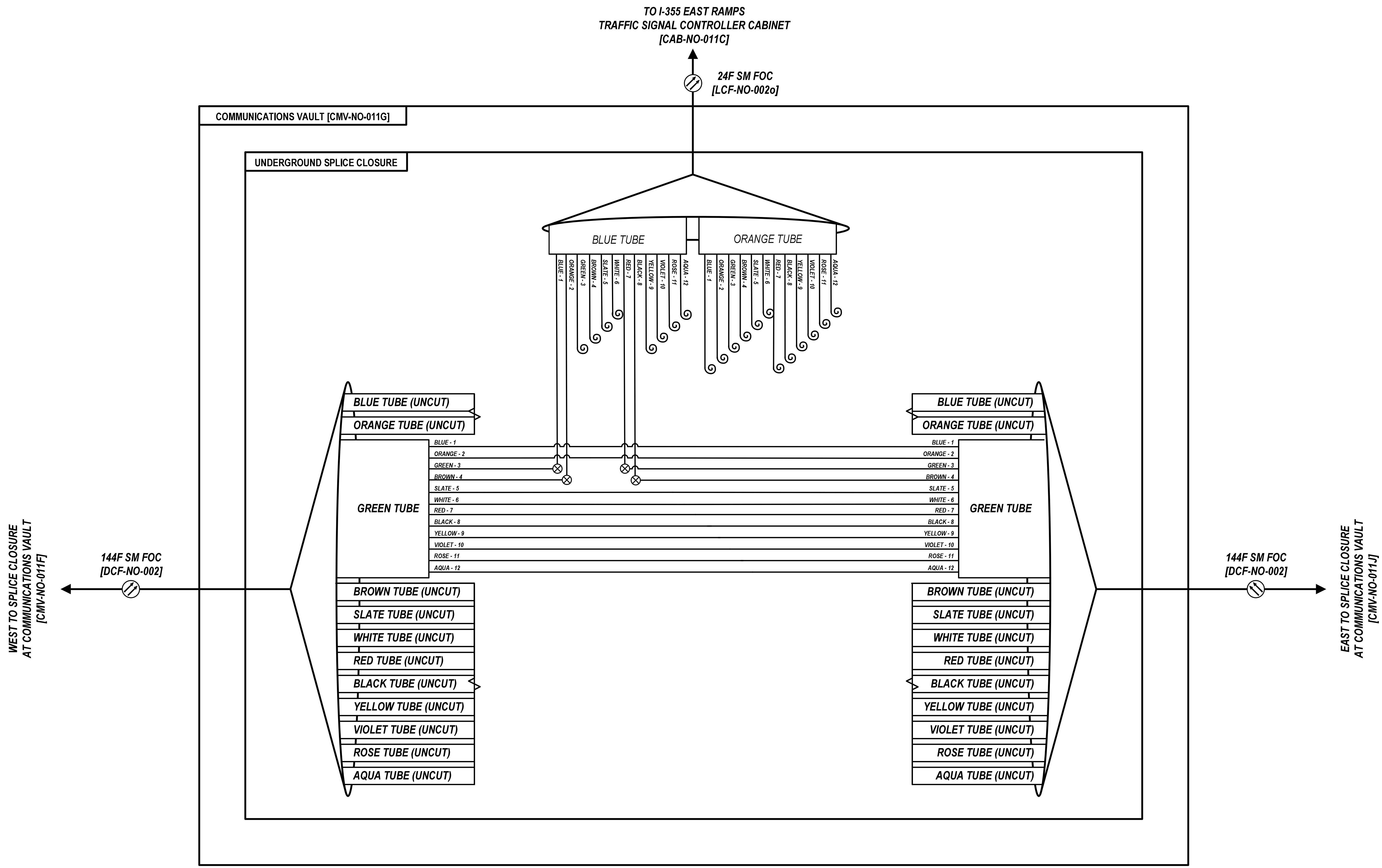
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 371 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |




D108121-sht-comm-visio

| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS<br>COMMUNICATIONS VAULT [CMV-NO-011F] |
|---|---|---|---|---|---|
| | | DRAWN - | REVISED - | | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 372 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |




D108121-sht-comm-visio

Kimley»Horn

| | | |
|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

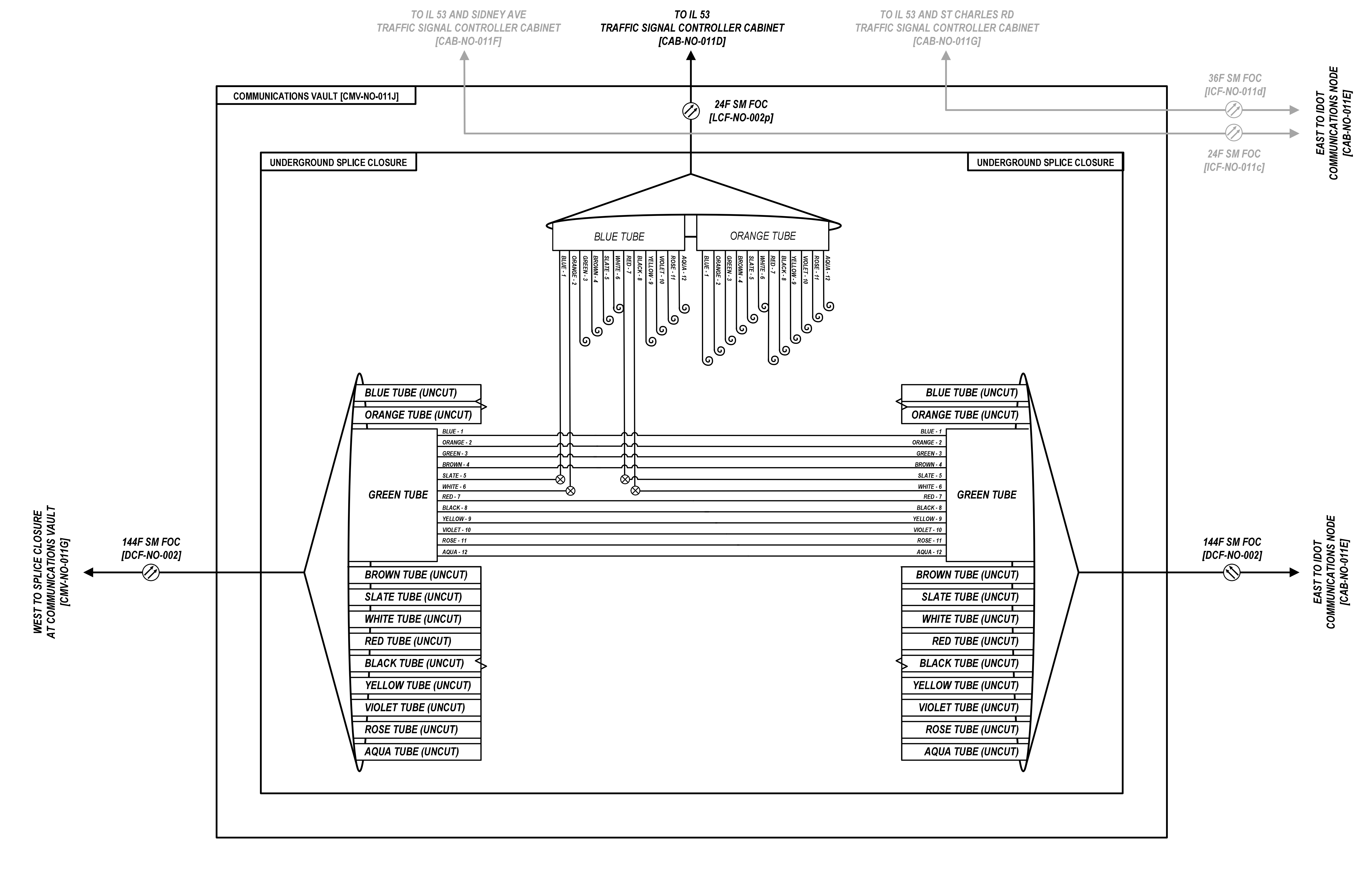
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-011G]**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 373 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS FED. AID PROJECT




D108121-sht-comm-visio

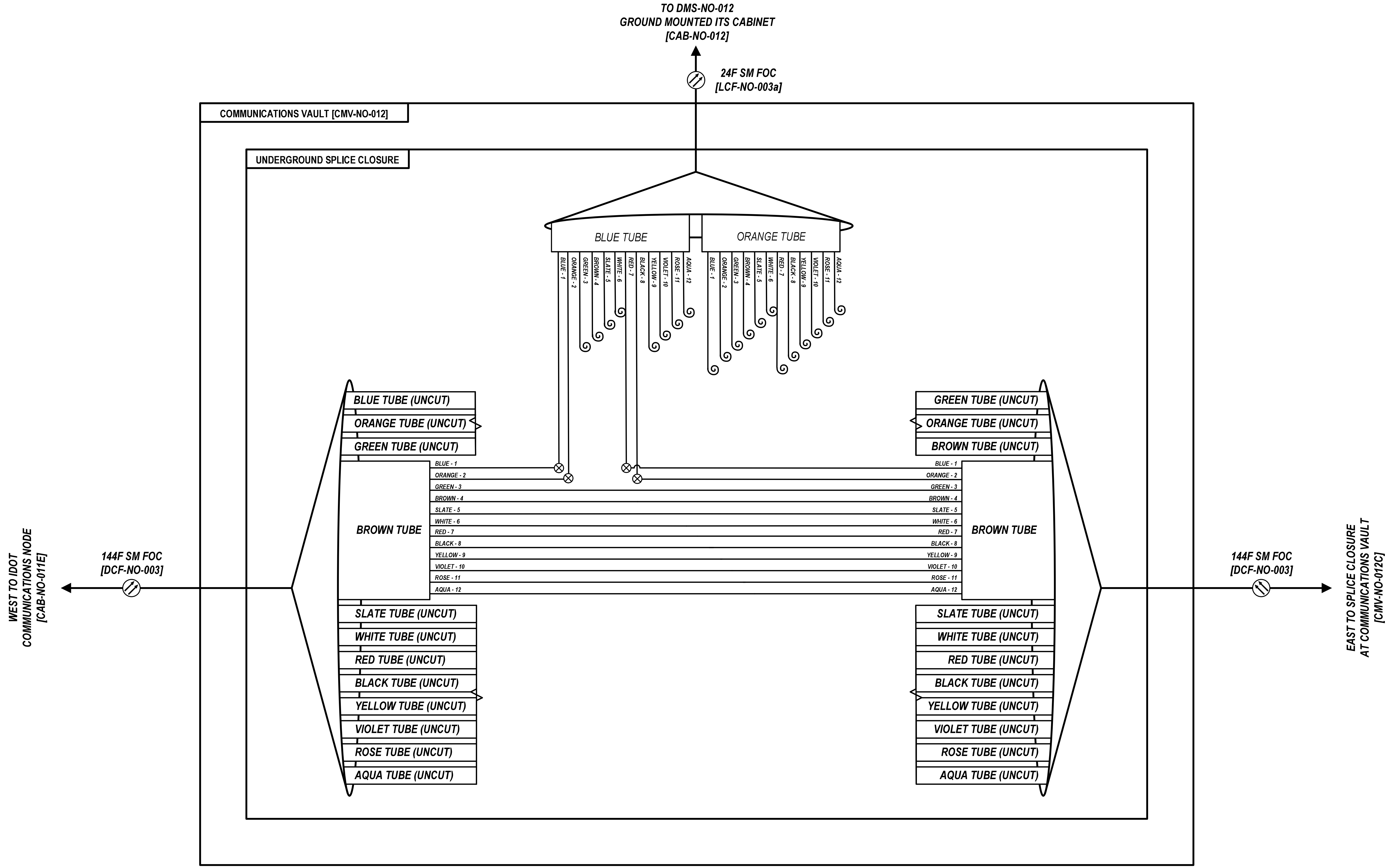
| | | | |
|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - |
| | | DRAWN - | REVISED - |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| | PLOT DATE = | DATE - | REVISED - |

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

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-011J]**

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

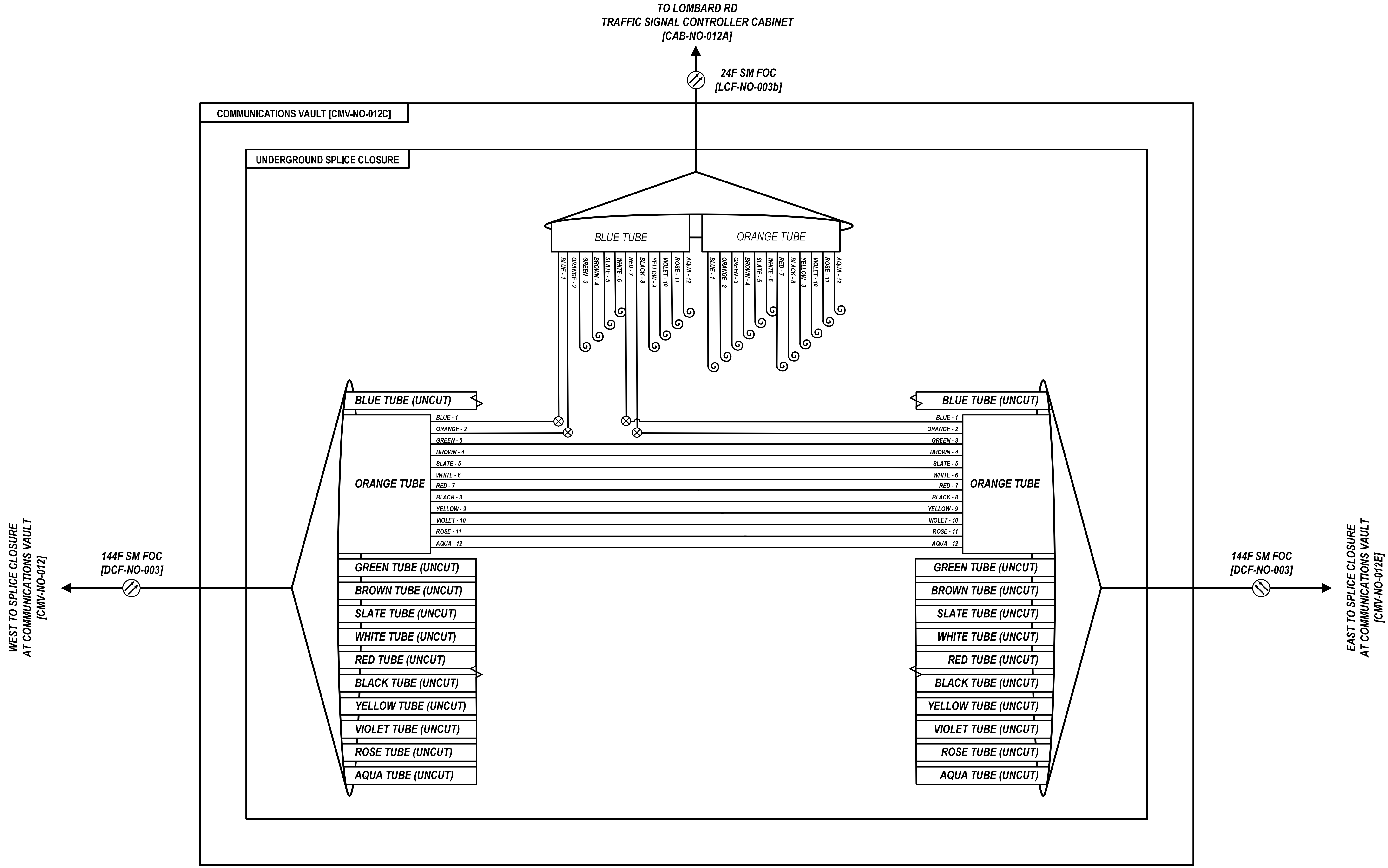
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 374 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |




D108121-sht-comm-visio

| | | | | | | |
|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-012] | |
| | | DRAWN - | REVISED - | | | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 375 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |




D108121-sht-comm-visio

Kimley»Horn

| | | |
|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

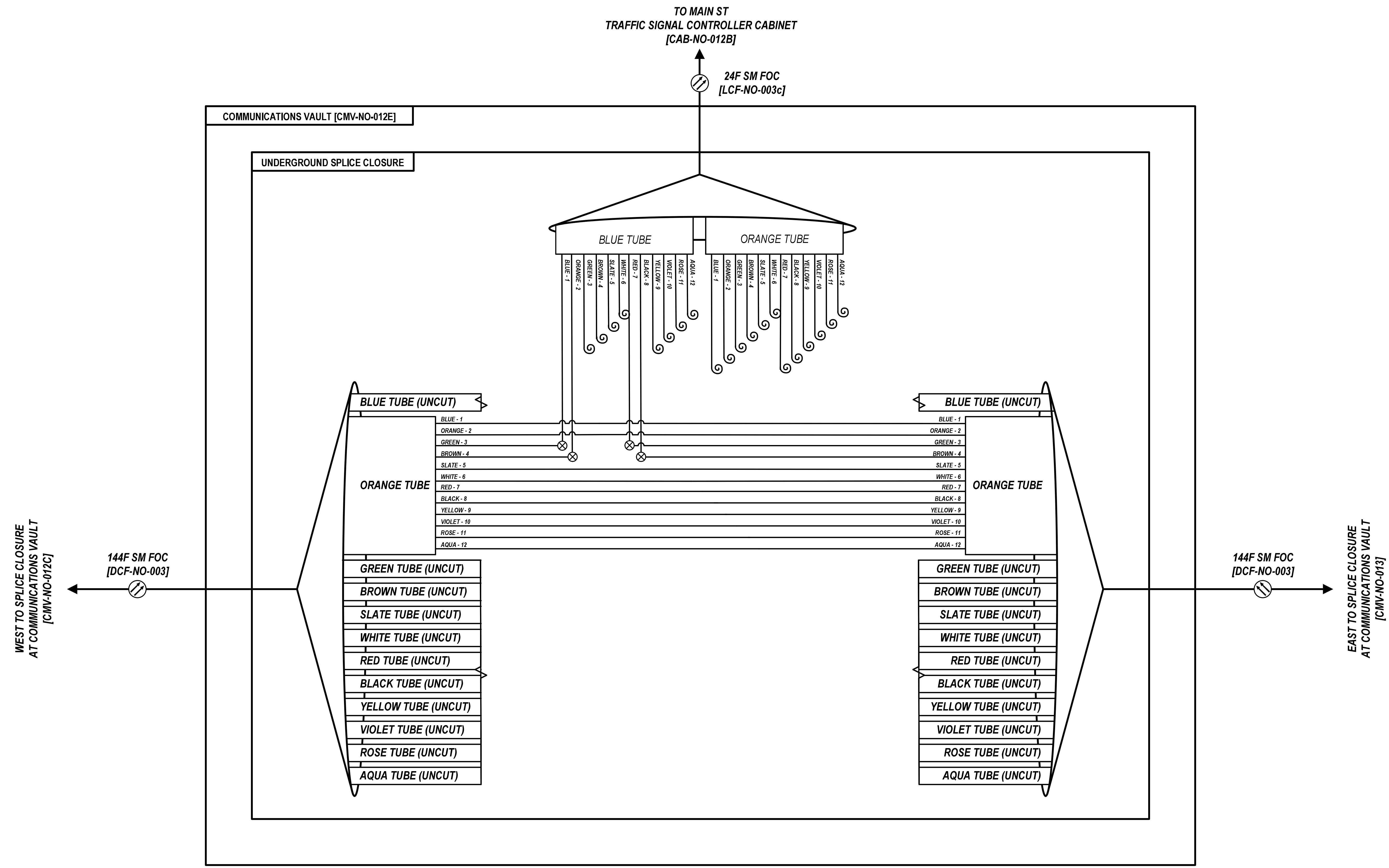
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-012C]**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 376 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS FED. AID PROJECT




D108121-sht-comm-visio

Kimley»Horn

| | | | |
|---|---|---|---|
| USER NAME = | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

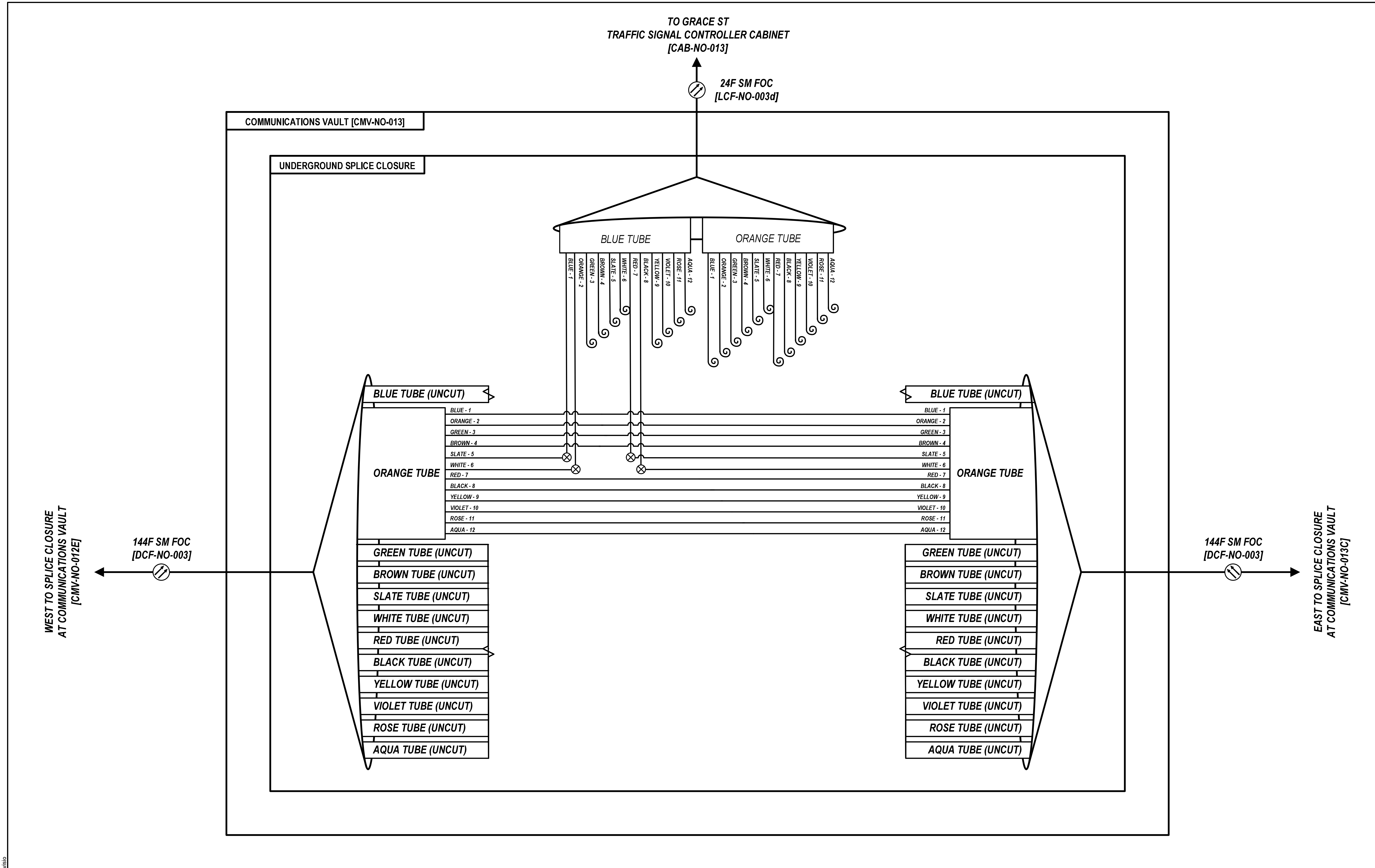
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-012E]**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 377 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS | FED. AID PROJECT




D108121-sht-comm-visio

Kimley»Horn

| | | |
|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

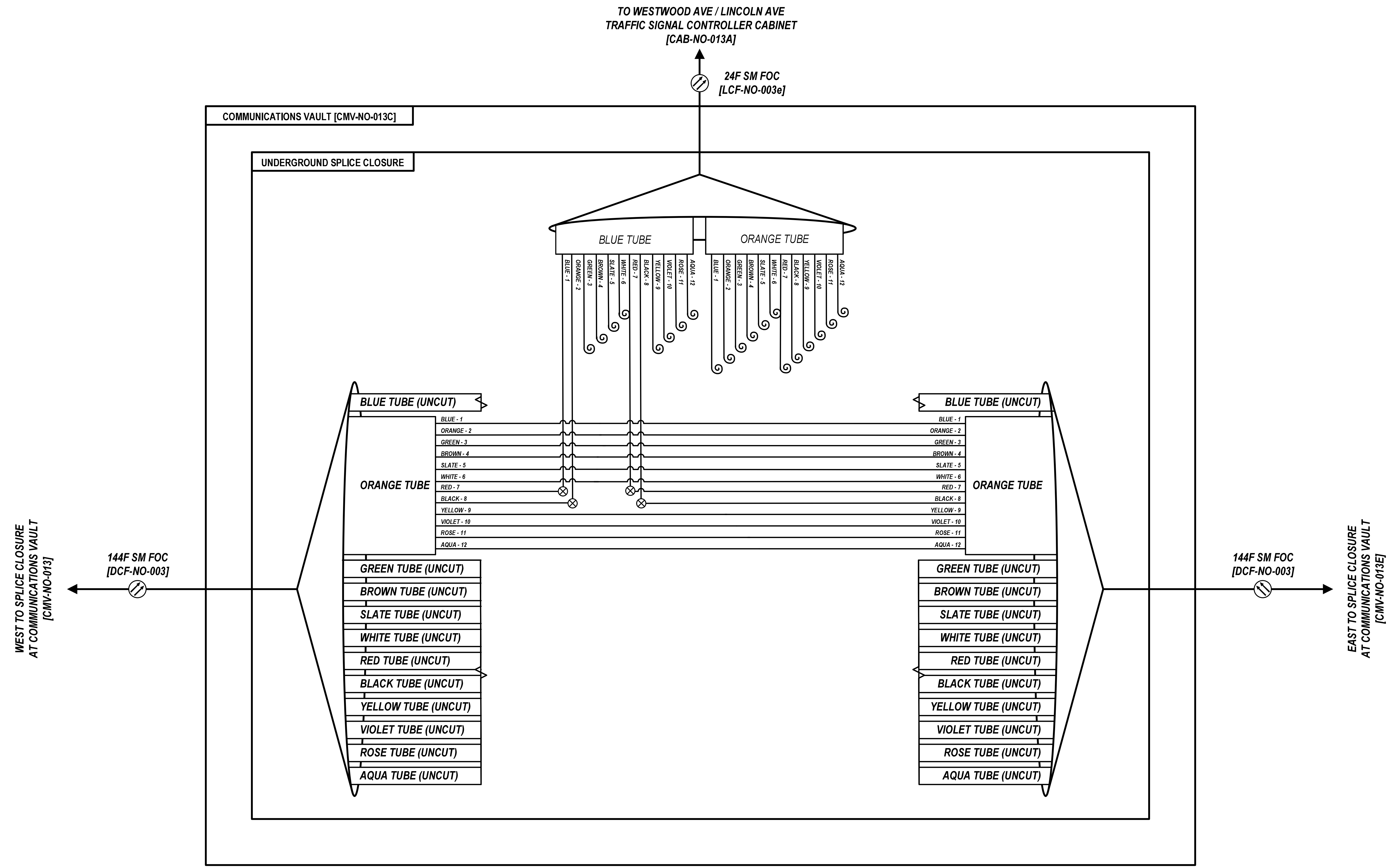
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-013]**

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

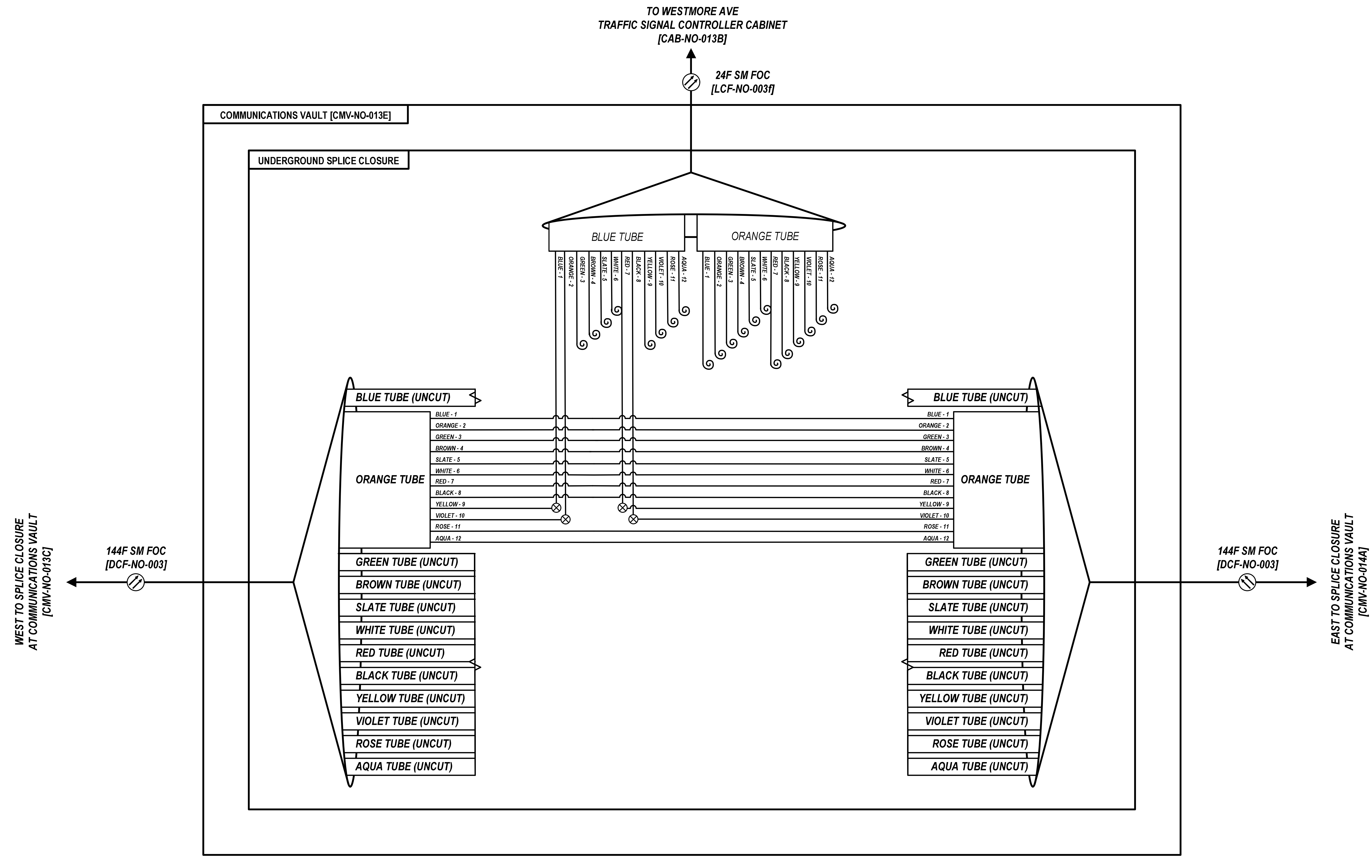
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 378 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS | FED. AID PROJECT




D108121-sht-comm-visio

| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS<br>COMMUNICATIONS VAULT [CMV-NO-013C] | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | DRAWN - | REVISED - | | | 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 379 |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | | | CONTRACT NO. 62N33 | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | | ILLINOIS | FED. AID PROJECT | | |




D108121-sht-comm-visio

Kimley»Horn

| | | | |
|---|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

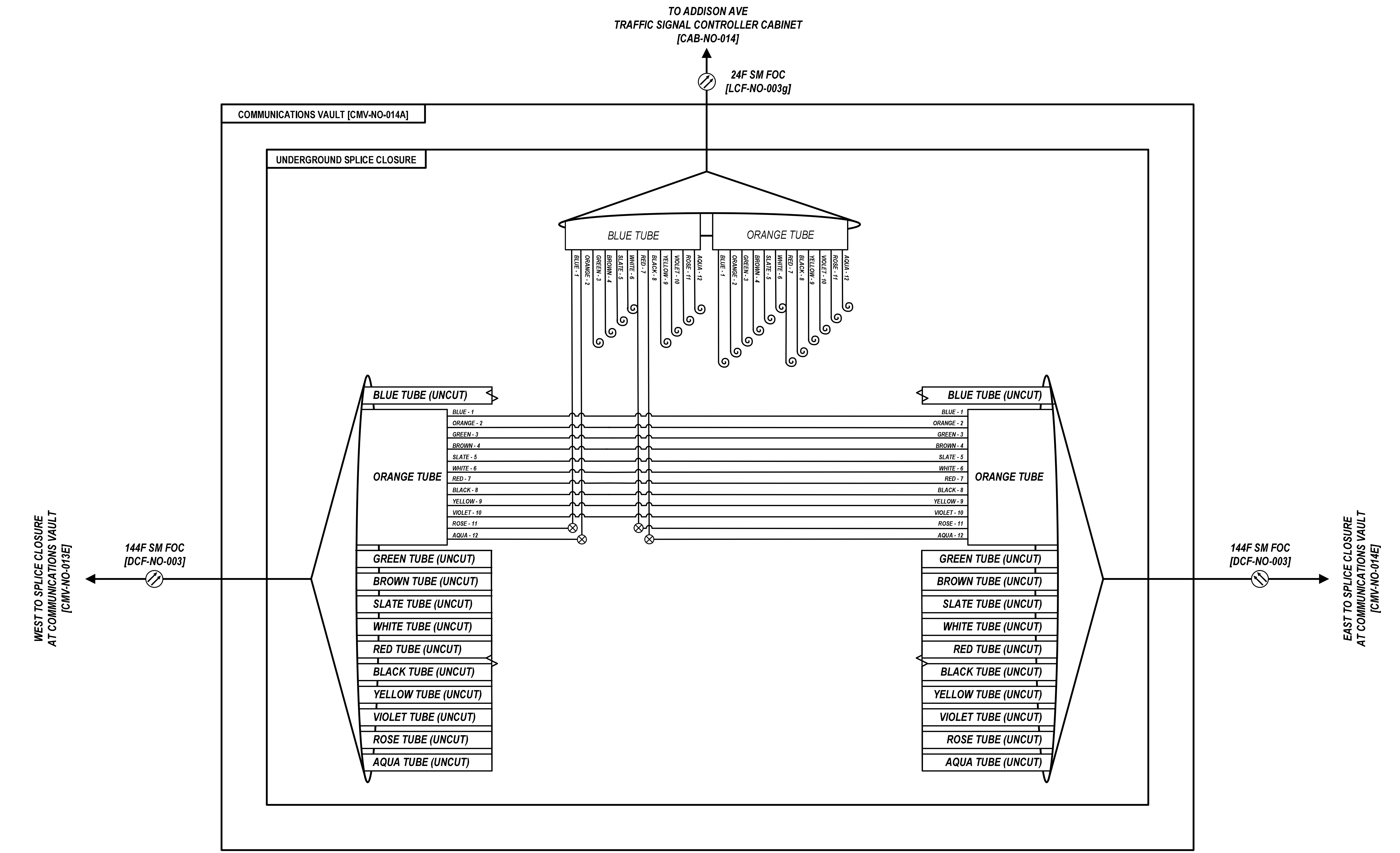
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-013E]**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 380 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS | FED. AID PROJECT




D108121-sht-comm-visio

Kimley»Horn

| | | |
|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

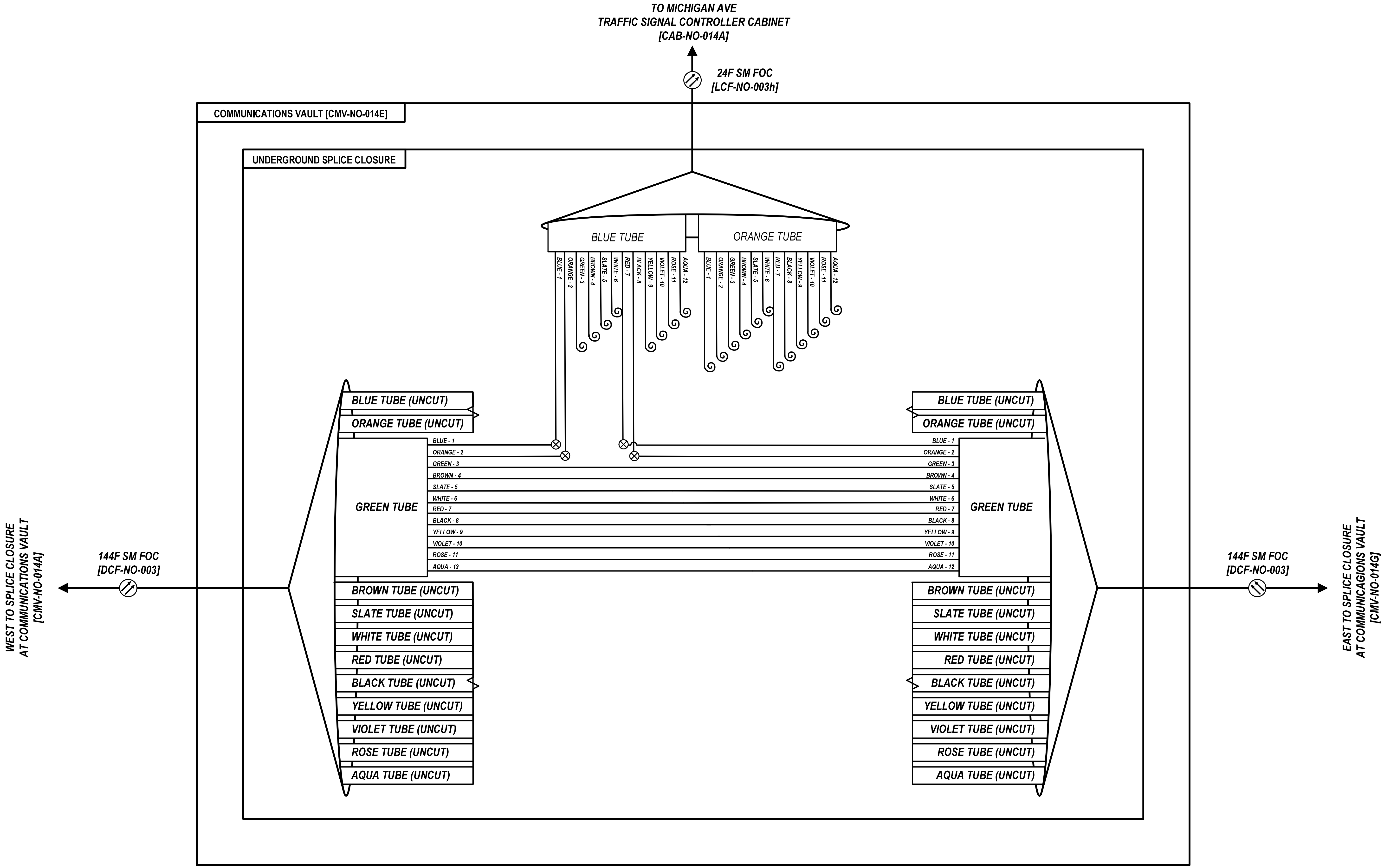
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-014A]**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 381 |
| | | CONTRACT NO. 62N33 | | |

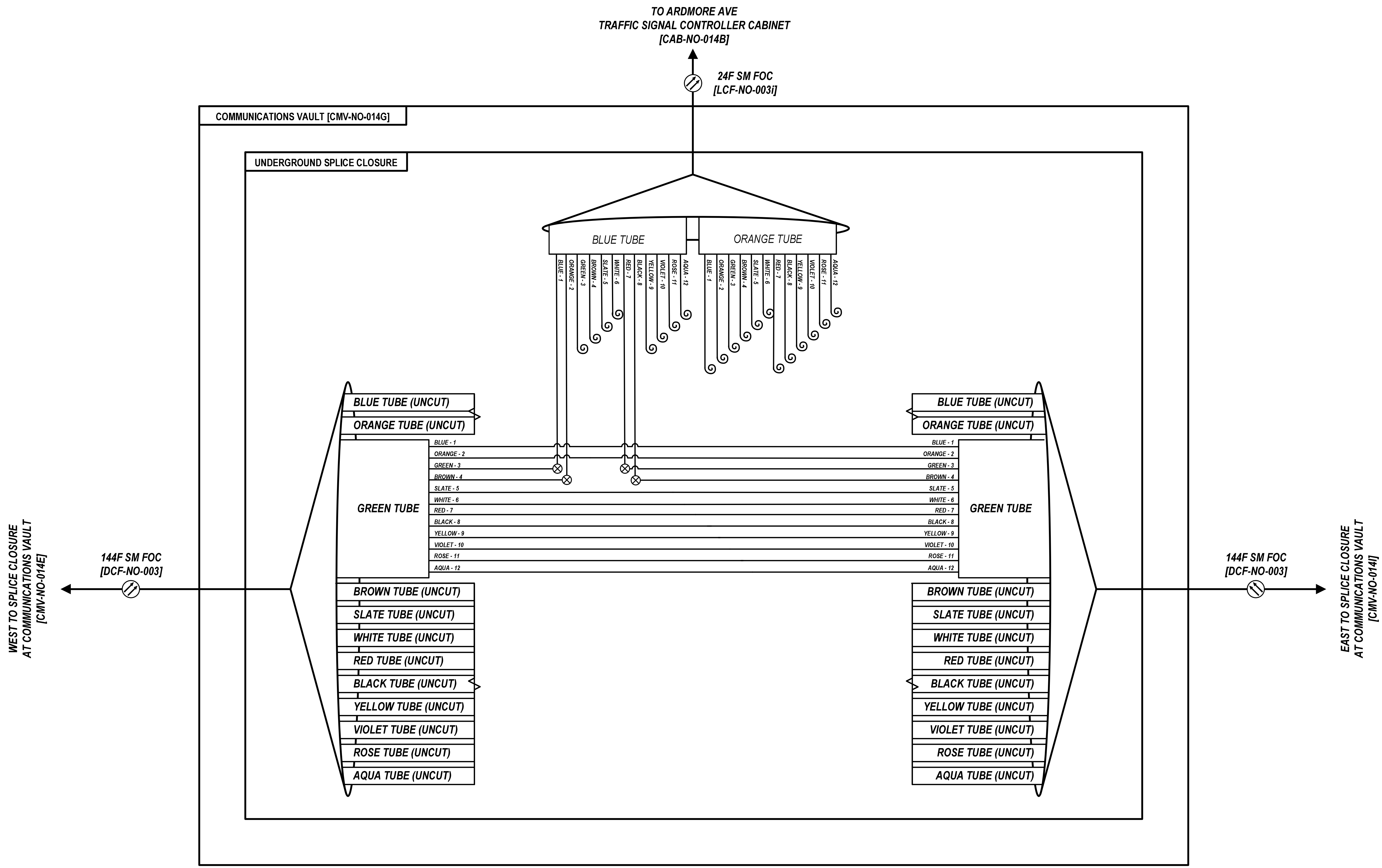
ILLINOIS FED. AID PROJECT




D108121-sht-comm-visio

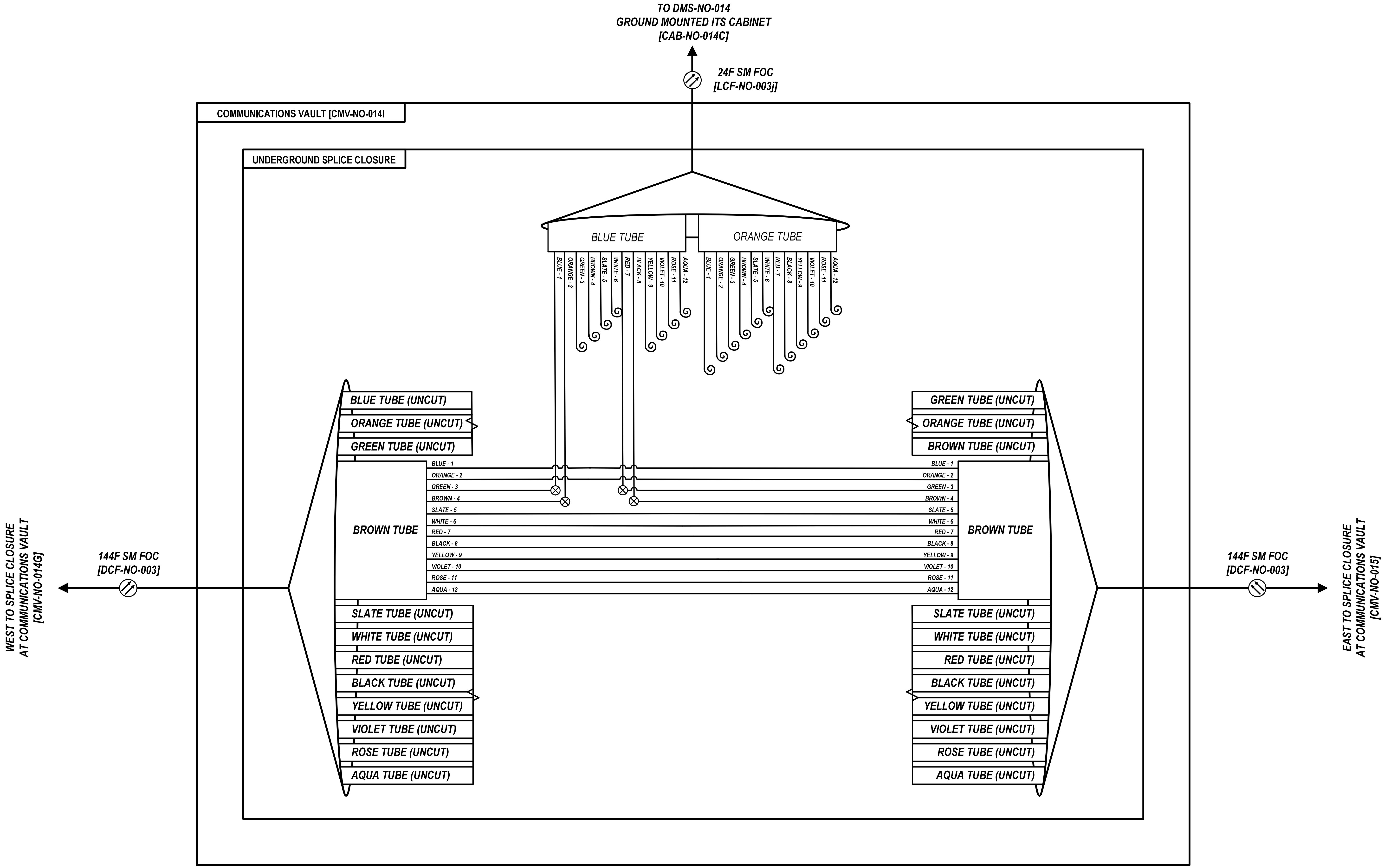
| | | | | | | |
|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-014E] | |
| | | DRAWN - | REVISED - | | | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 382 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |




D108121-sht-comm-visio

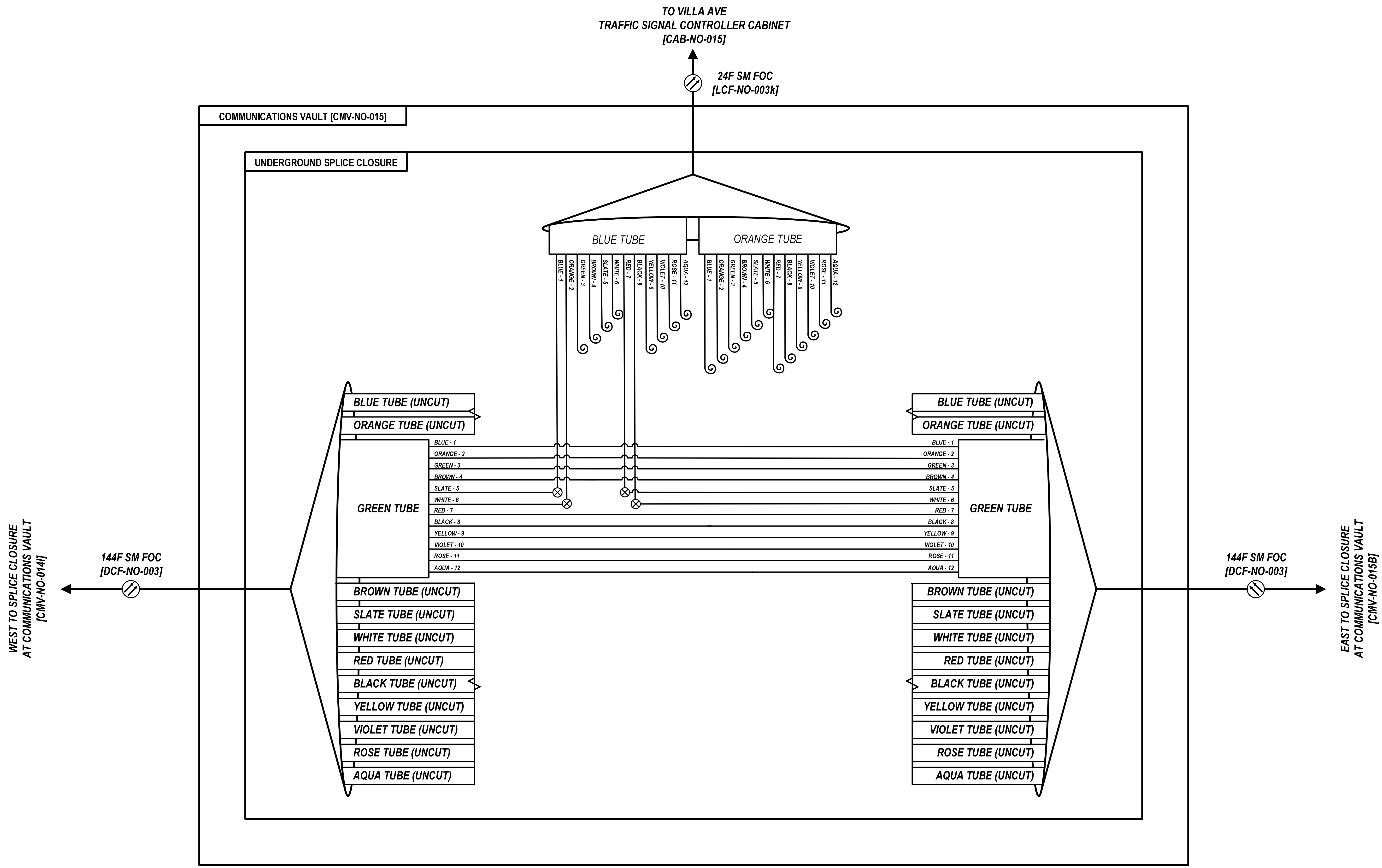
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-014G] | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | DRAWN - | REVISED - | | | 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 383 |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | | | CONTRACT NO. 62N33 | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | | ILLINOIS | FED. AID PROJECT | | |




| | | | | | |
|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS<br>COMMUNICATIONS VAULT [CMV-NO-014I] |
| | | DRAWN - | REVISED - | | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 384 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |

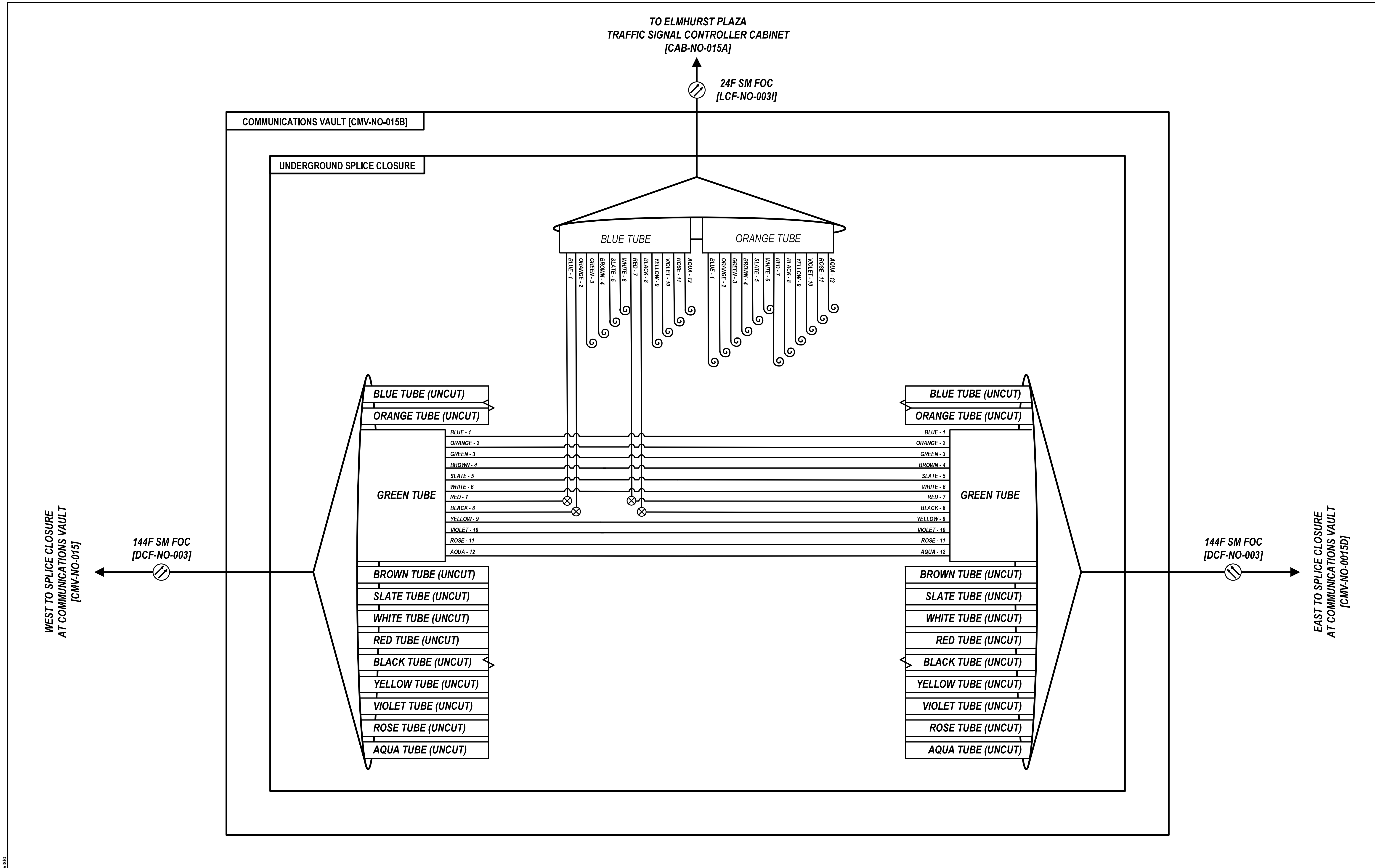
D108121-sht-comm-visio




D108121-sht-comm-visio

| | | | | | |
|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-015] |
| | | DRAWN - | REVISED - | | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. |

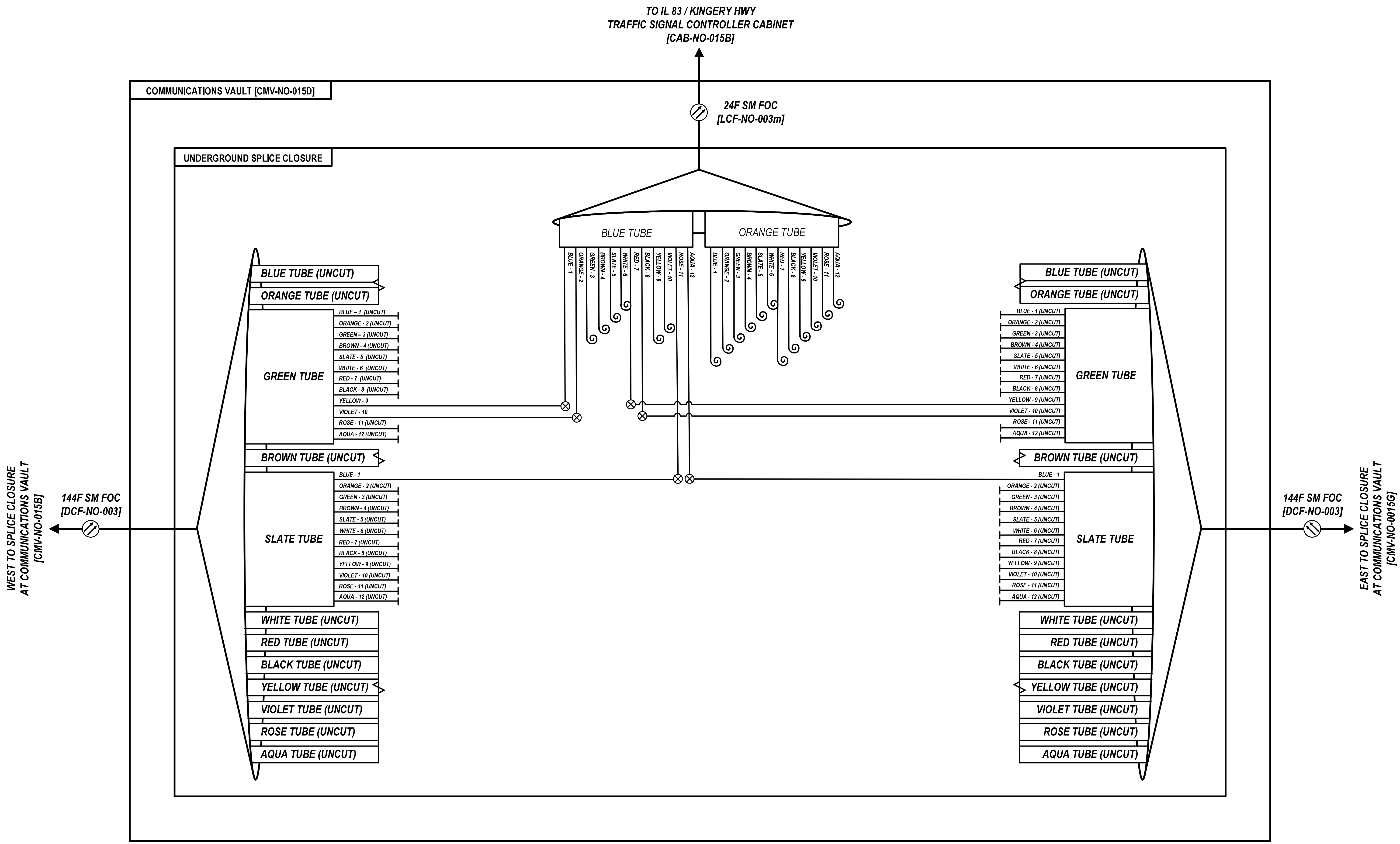
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 385 |
| | | CONTRACT NO. 62N33 | | |
| | ILLINOIS | FED. AID PROJECT | | |




D108121-sht-comm-visio

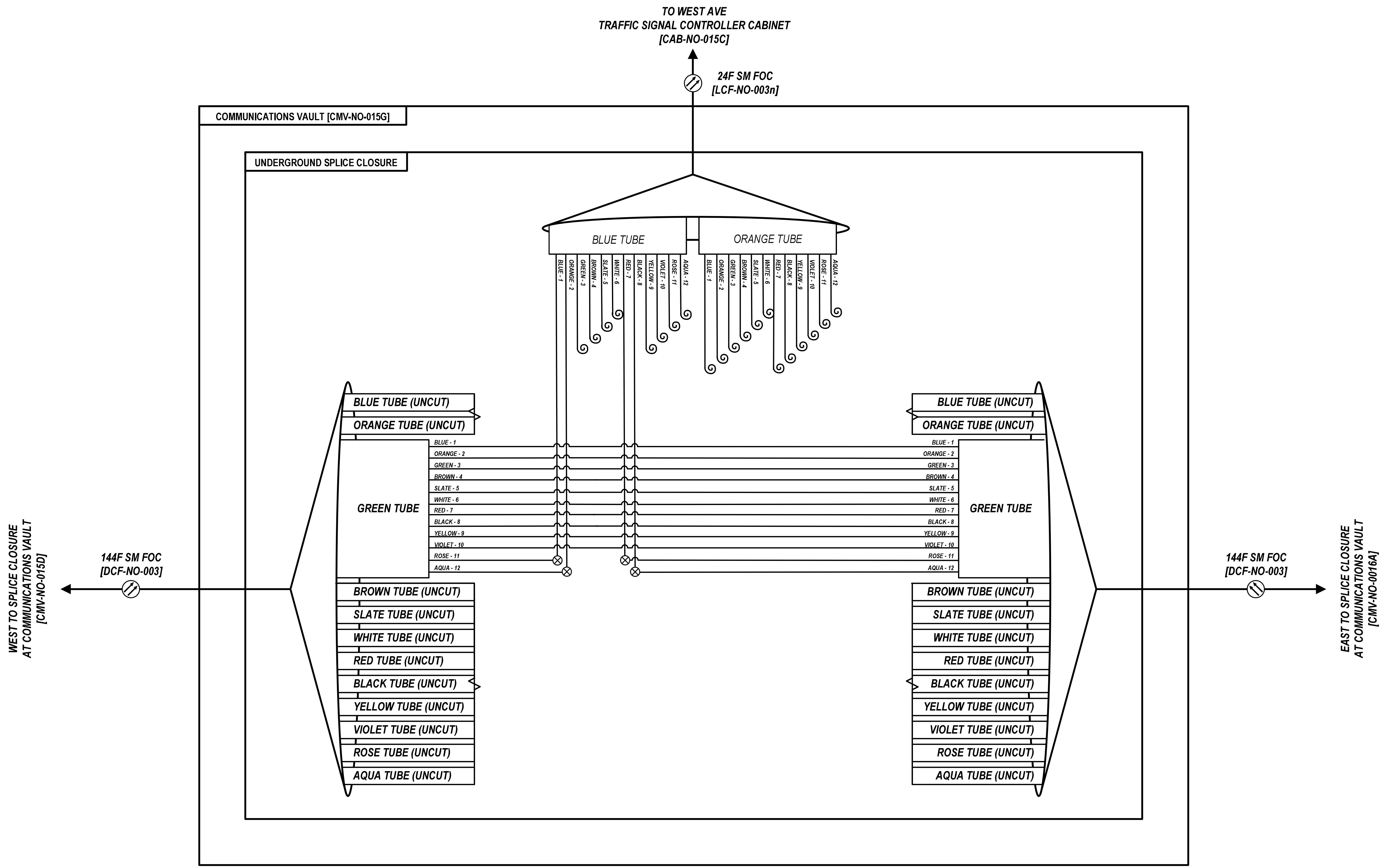
| | | | | | | |
|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-015B] | |
| | | DRAWN - | REVISED - | | | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 386 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATIONS VAULT [CMV-NO-015D] | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS / SHEET NO. |
| | | DRAWN - | REVISED - | | | 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 / 387 |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | | | CONTRACT NO. 62N33 | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |

D108121-sht-comm-visio




D108121-sht-comm-visio

Kimley»Horn

| | | | |
|---|---|---|---|
| USER NAME = | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - | |
| PLOT DATE = | DATE - | REVISED - | |

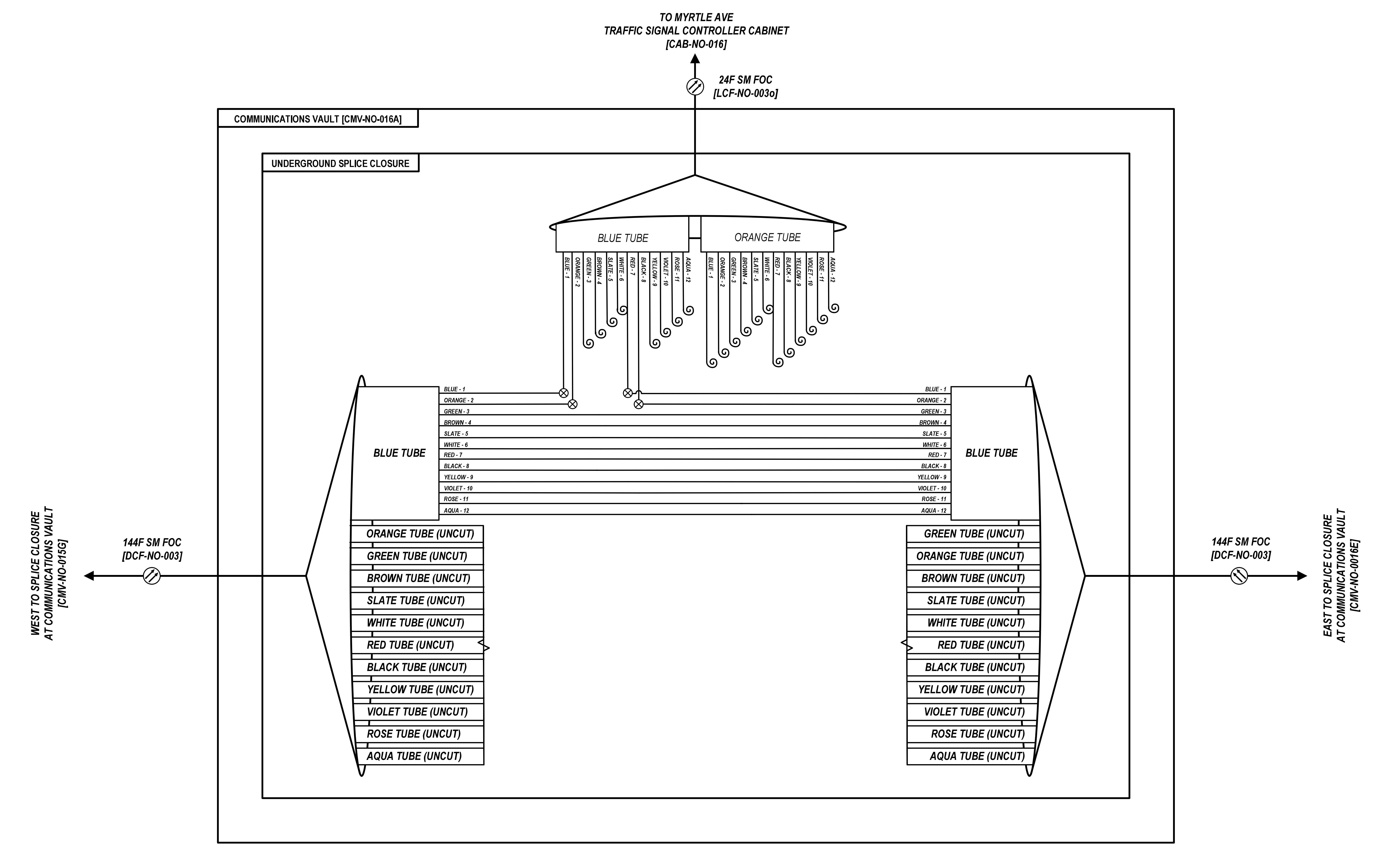
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-015G]**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 388 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS FED. AID PROJECT




D108121-sht-comm-visio

Kimley»Horn

| USER NAME = | DESIGNED - | REVISED - |
|---|---|---|
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

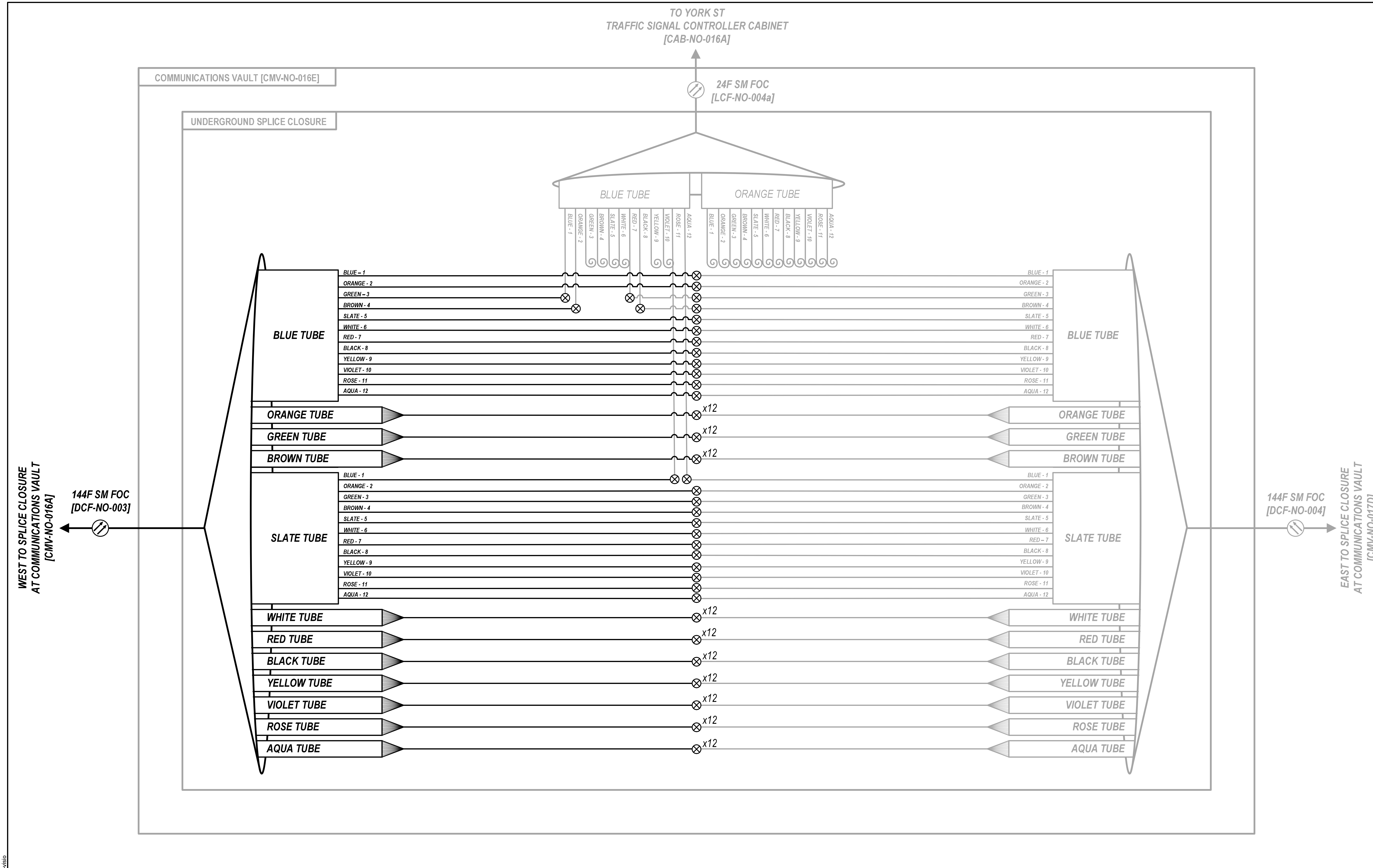
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-016A]**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 389 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS FED. AID PROJECT




D108121-sht-comm-visio

Kimley»Horn

| | | |
|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

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

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**COMMUNICATIONS VAULT [CMV-NO-016E]**

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

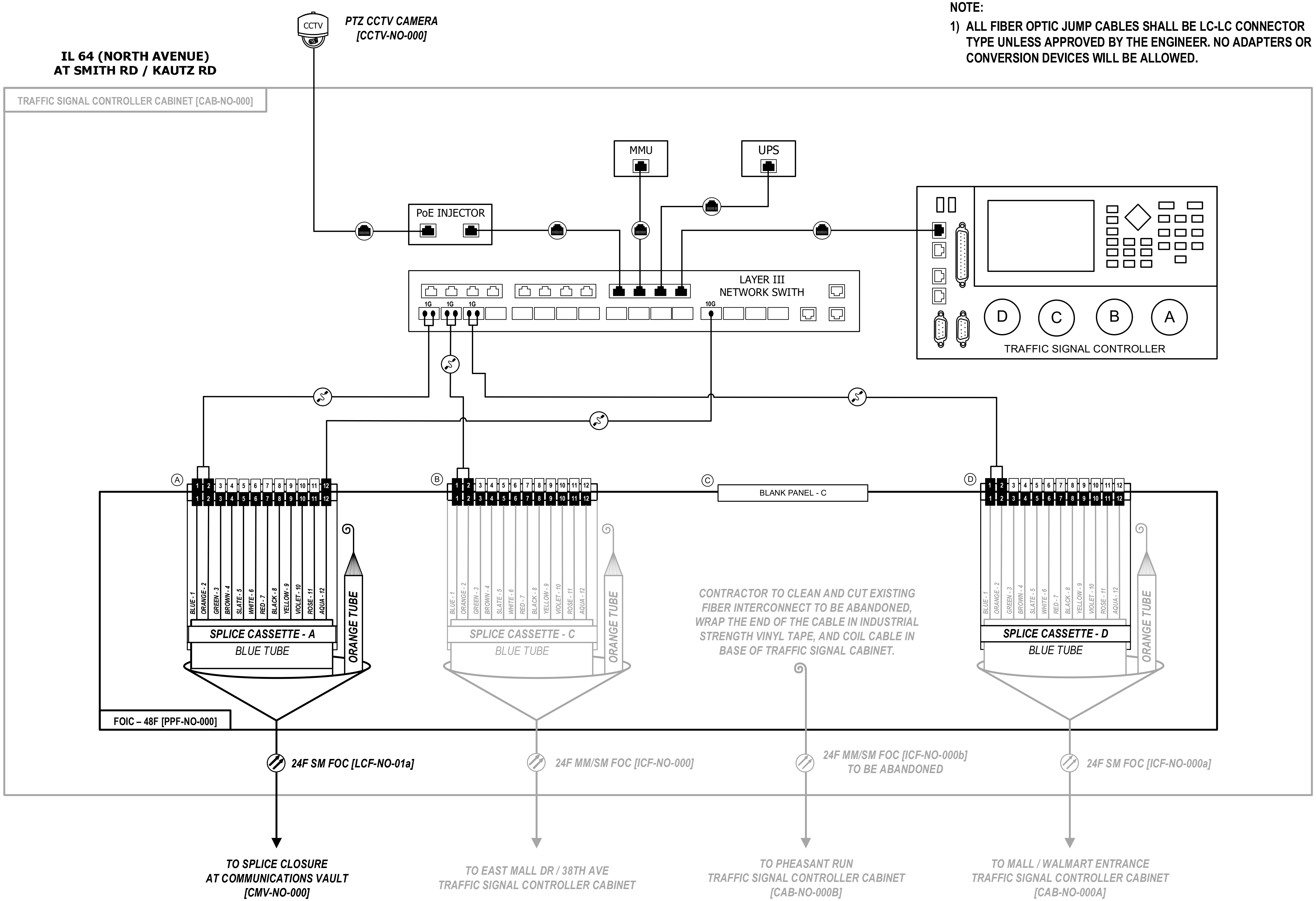
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 390 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS | FED. AID PROJECT

**NOTE:**

1) ALL FIBER OPTIC JUMP CABLES SHALL BE LC-LC CONNECTOR TYPE UNLESS APPROVED BY THE ENGINEER. NO ADAPTERS OR CONVERSION DEVICES WILL BE ALLOWED.

**IL 64 (NORTH AVENUE)**
**AT SMITH RD / KAUTZ RD**



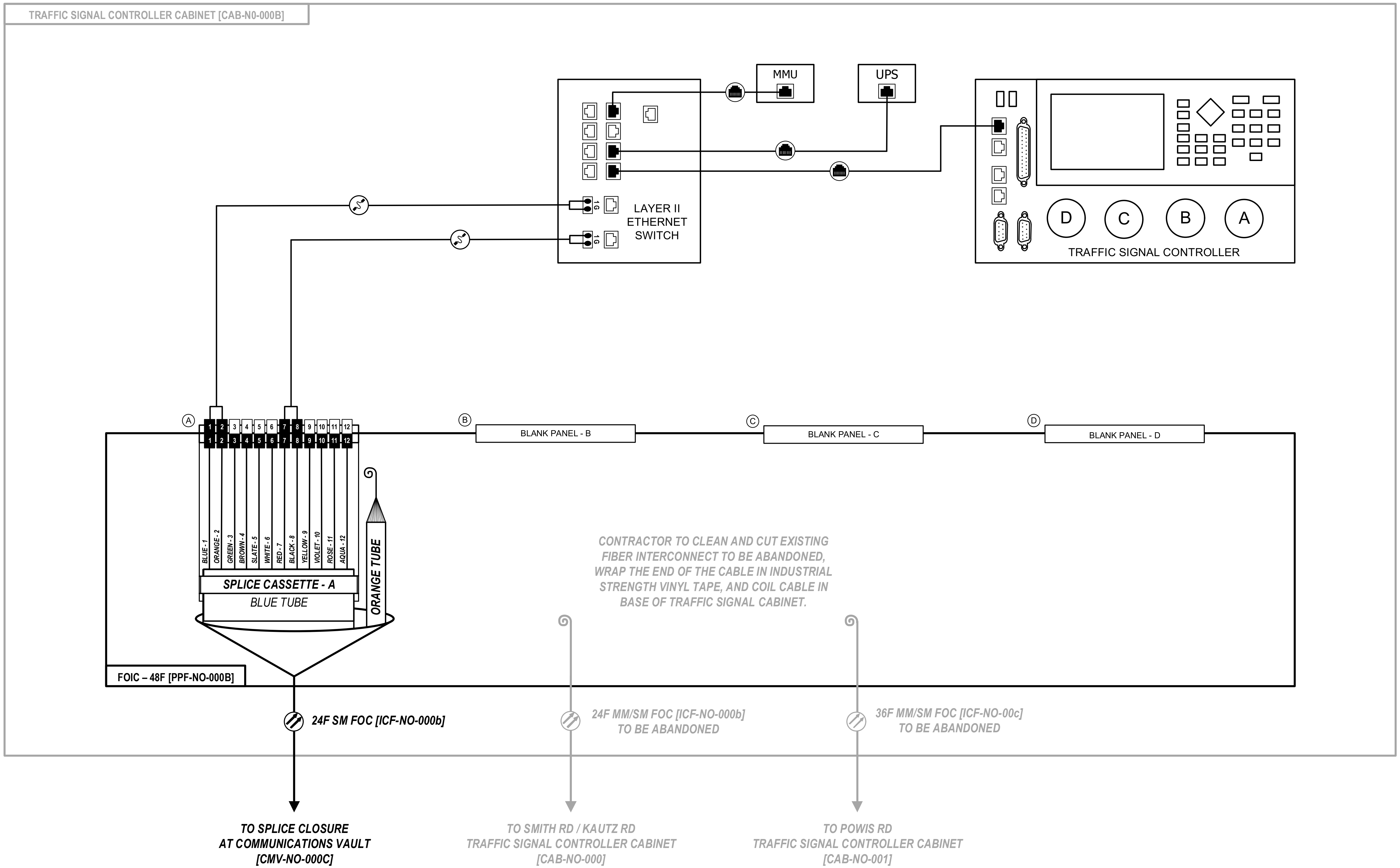

| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-000] | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | DRAWN - | REVISED - | | | 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 391 |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | | | CONTRACT NO. 62N33 | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | | ILLINOIS | FED. AID PROJECT | | |

D108121-sht-comm-visio

NOTE:

1) ALL FIBER OPTIC JUMP CABLES SHALL BE LC-LC CONNECTOR TYPE UNLESS APPROVED BY THE ENGINEER. NO ADAPTERS OR CONVERSION DEVICES WILL BE ALLOWED.

**IL 64 (NORTH AVENUE)**
**AT PHEASANT RUN**




D108121-sht-comm-visio

Kimley»Horn

| | | |
|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

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

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-000B]**

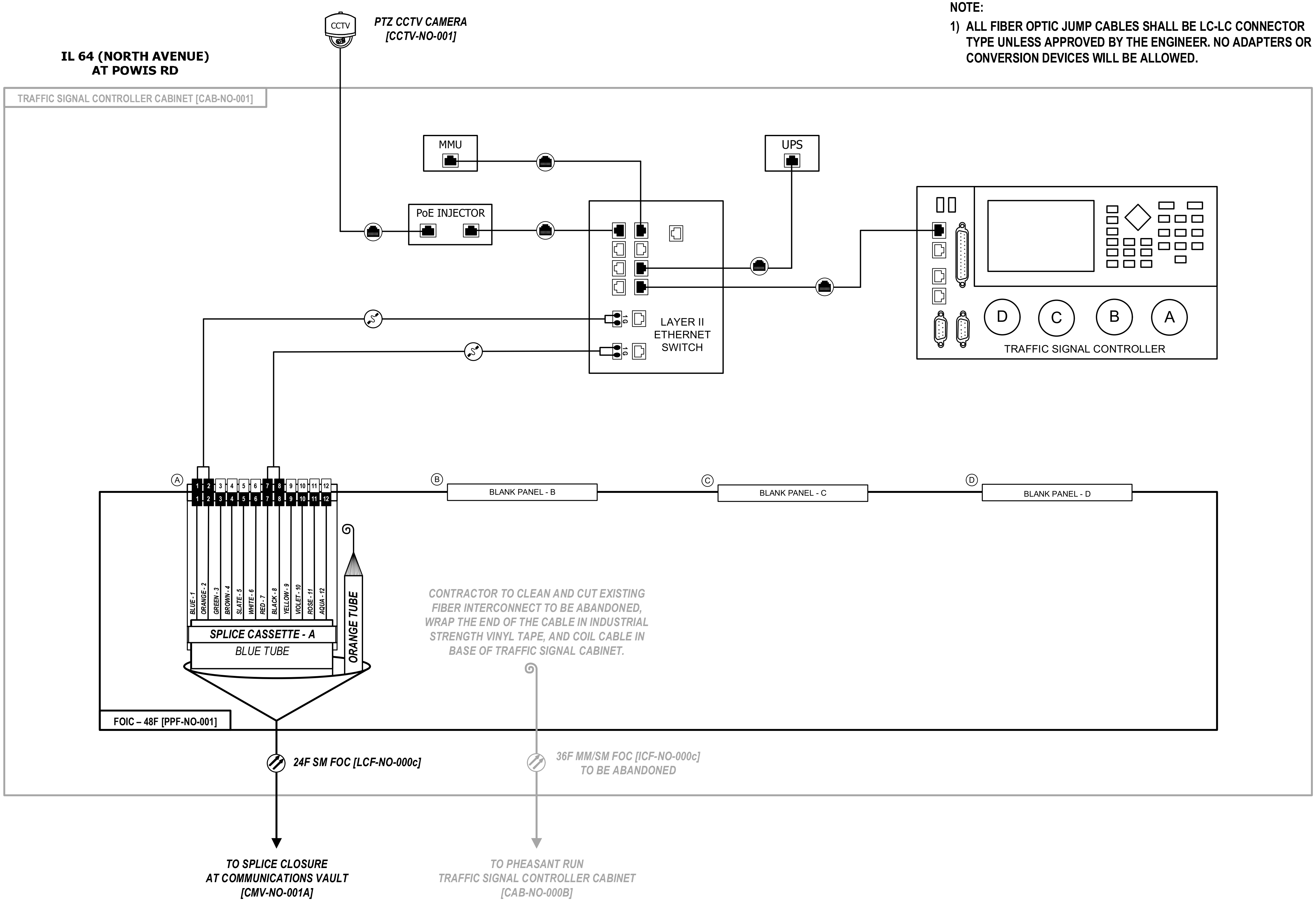
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 392 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS FED. AID PROJECT

NOTE:

1) ALL FIBER OPTIC JUMP CABLES SHALL BE LC-LC CONNECTOR TYPE UNLESS APPROVED BY THE ENGINEER. NO ADAPTERS OR CONVERSION DEVICES WILL BE ALLOWED.




D108121-sht-comm-visio

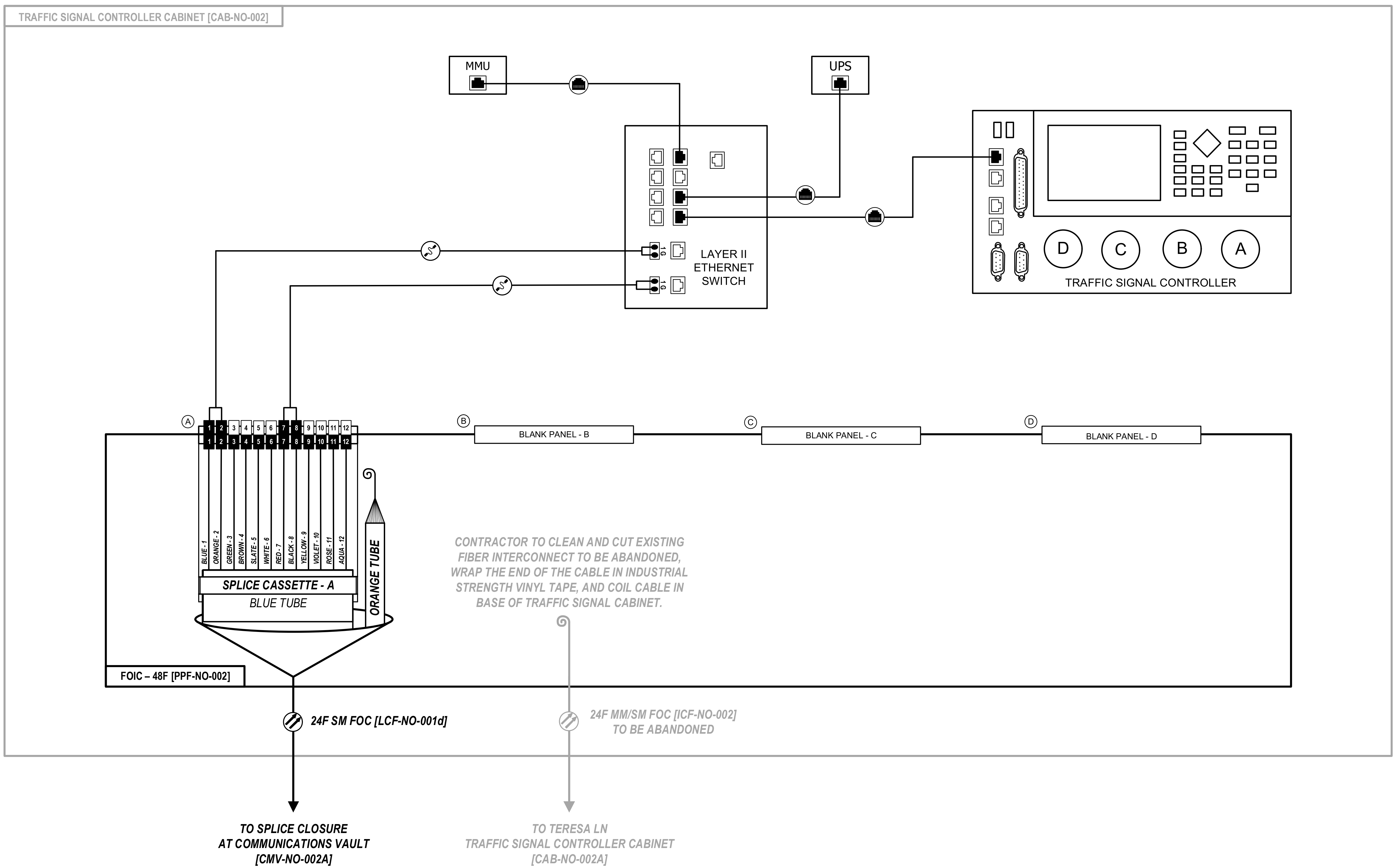
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-001] |
|---|---|---|---|---|---|
| | | DRAWN - | REVISED - | | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 393 |
| | | CONTRACT NO. 62N33 | | |

**NOTE:**

1) ALL FIBER OPTIC JUMP CABLES SHALL BE LC-LC CONNECTOR TYPE UNLESS APPROVED BY THE ENGINEER. NO ADAPTERS OR CONVERSION DEVICES WILL BE ALLOWED.

**IL 64 (NORTH AVENUE)**
**AT ATLANTIC DR**




| | | | |
|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - |
| | | DRAWN - | REVISED - |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| | PLOT DATE = | DATE - | REVISED - |

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

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-002]**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 394 |
| | | CONTRACT NO. 62N33 | | |

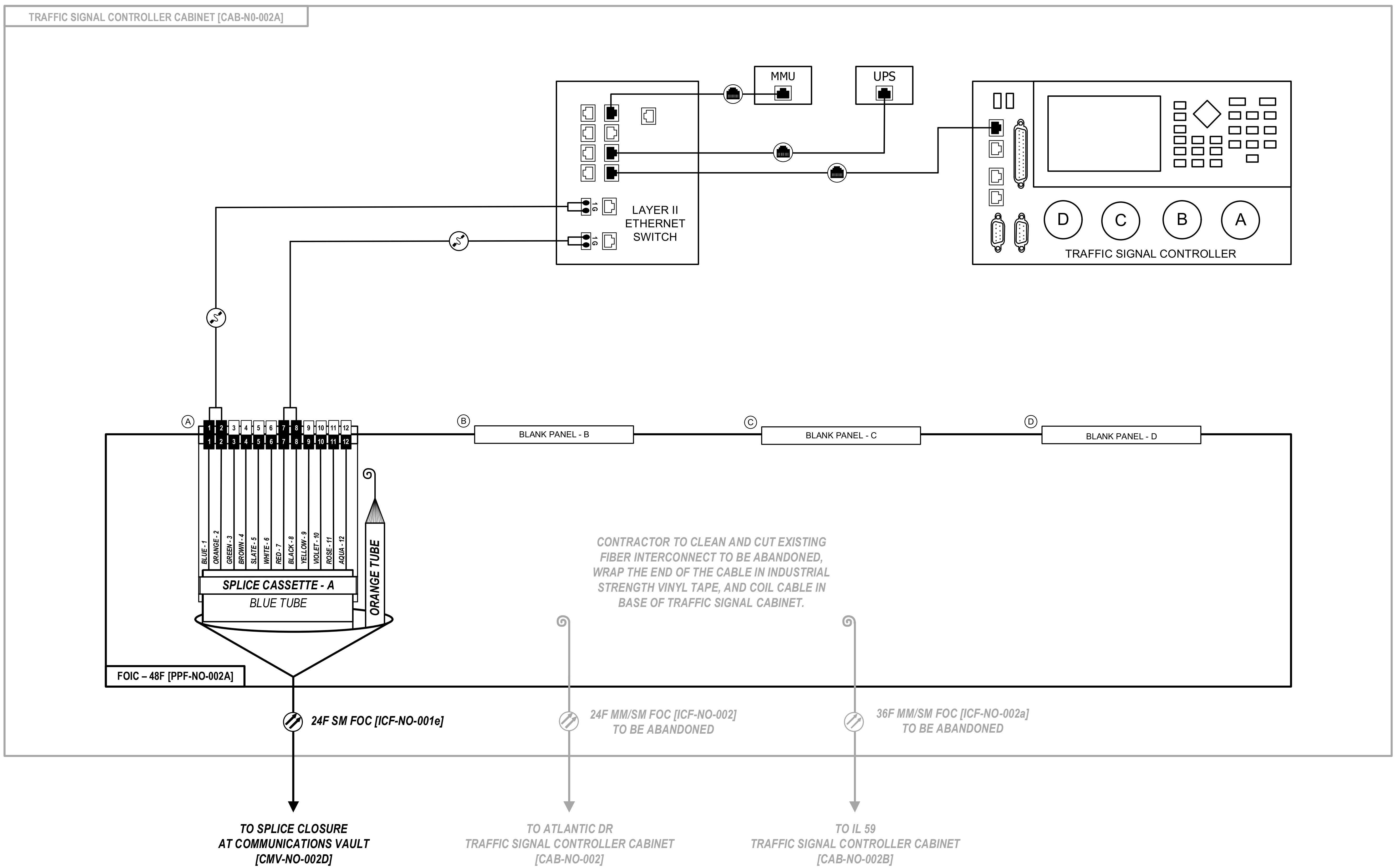
ILLINOIS FED. AID PROJECT

D108121-sht-comm-visio

NOTE:

1) ALL FIBER OPTIC JUMP CABLES SHALL BE LC-LC CONNECTOR TYPE UNLESS APPROVED BY THE ENGINEER. NO ADAPTERS OR CONVERSION DEVICES WILL BE ALLOWED.

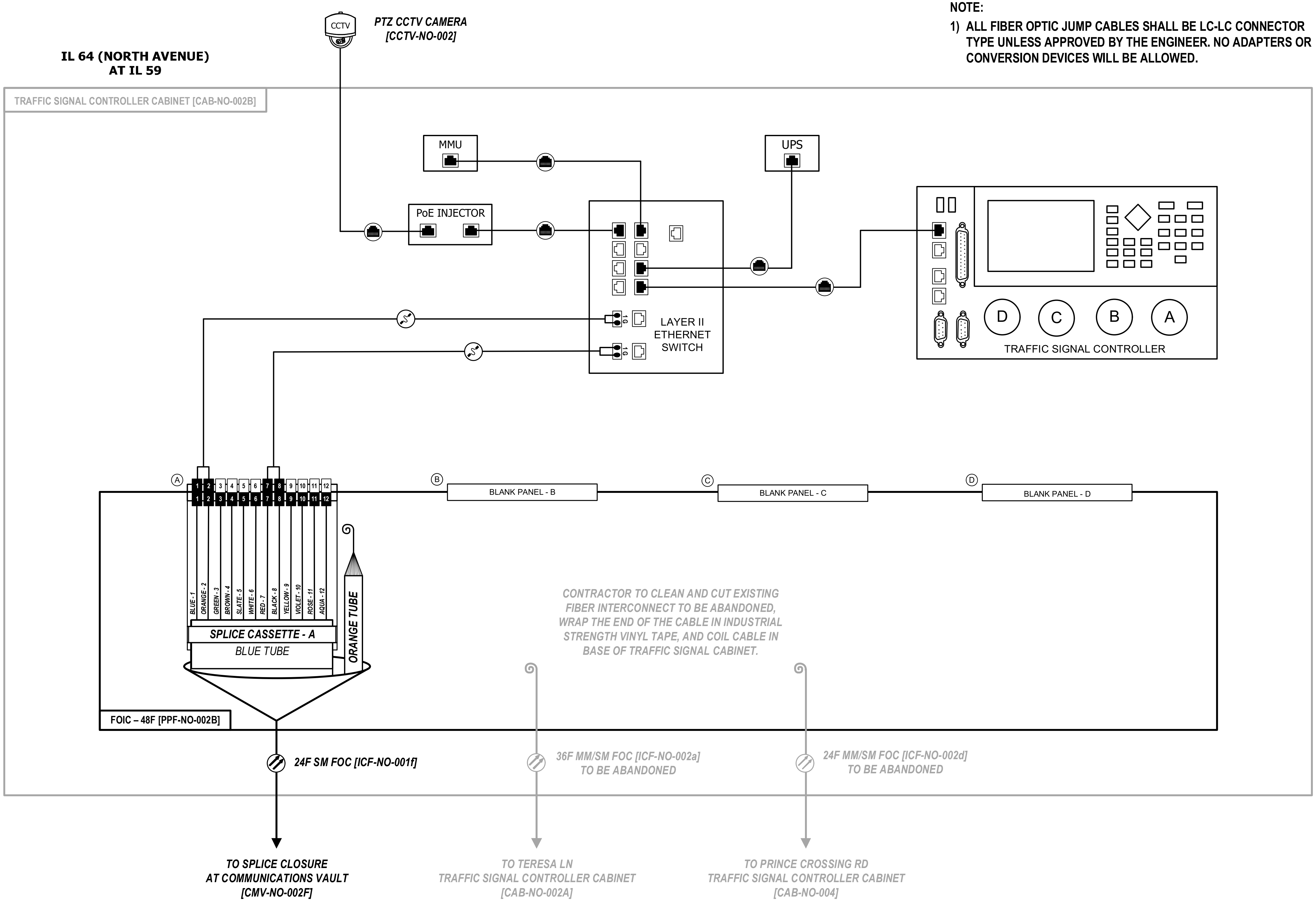
**IL 64 (NORTH AVENUE)**
**AT TERESA LN**



NOTE:

1) ALL FIBER OPTIC JUMP CABLES SHALL BE LC-LC CONNECTOR TYPE UNLESS APPROVED BY THE ENGINEER. NO ADAPTERS OR CONVERSION DEVICES WILL BE ALLOWED.

**IL 64 (NORTH AVENUE)**
**AT IL 59**




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS<br>TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-002B] | F.A.P. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO. | |
| | | DRAWN - | REVISED - | | | 307 / 2020-263-SUR,SW&TS / DUPAGE / 529 / 396 | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | CONTRACT NO. 62N33 | |
| | PLOT DATE = | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | |

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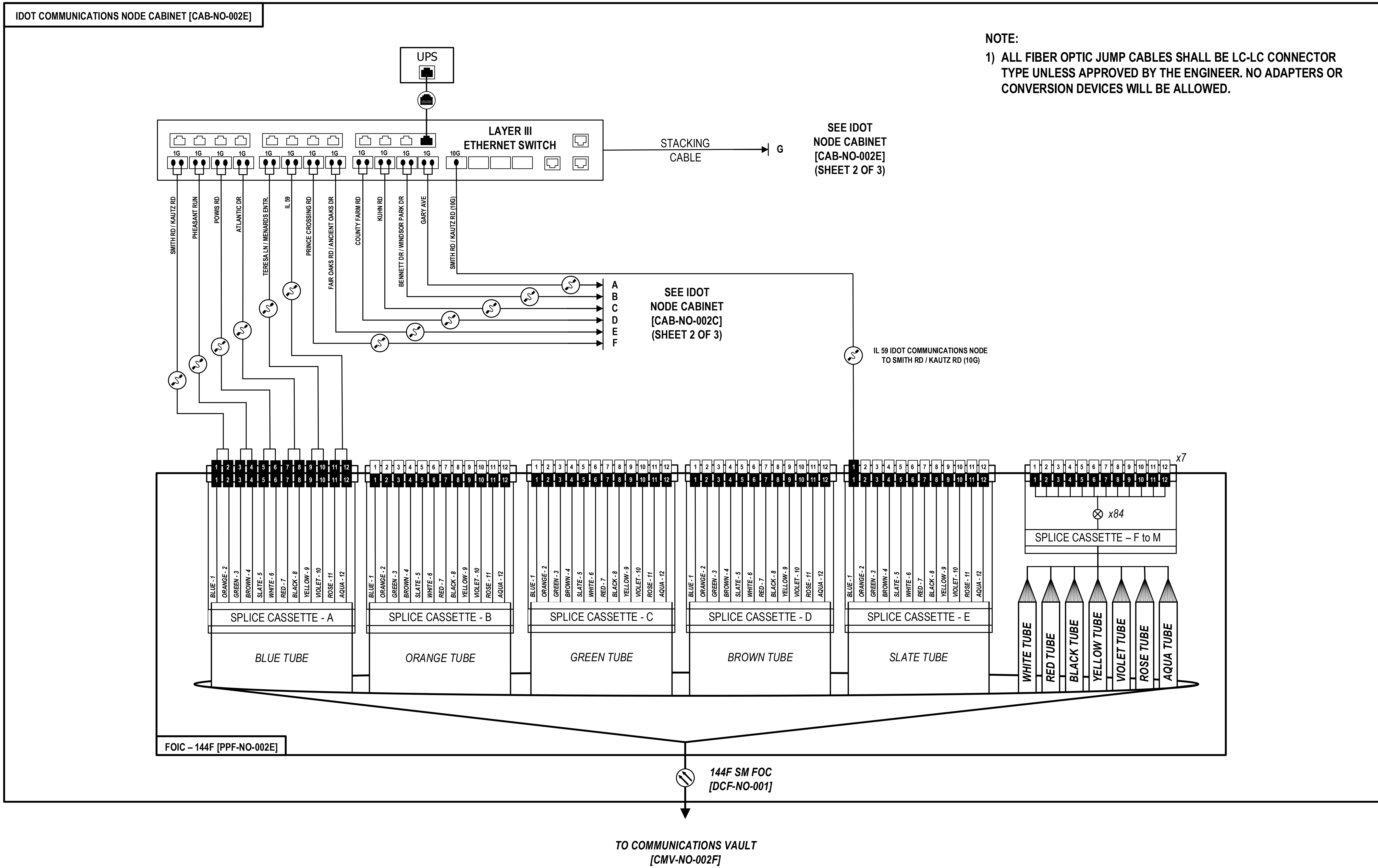
## IL 64 (NORTH AVENUE) AT IL 59




NOTE:

1) ALL FIBER OPTIC JUMP CABLES SHALL BE LC-LC CONNECTOR TYPE UNLESS APPROVED BY THE ENGINEER. NO ADAPTERS OR CONVERSION DEVICES WILL BE ALLOWED.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS IDOT NODE CABINET [CAB-NO-002E] (SHEET 1 OF 3) | F.A.P. RTE. 307 | SECTION 2020-263-SUR,SW&TS | COUNTY DUPAGE; TOTAL SHEETS 529; SHEET NO. 397 |
| | | DRAWN - | REVISED - | | | | | CONTRACT NO. 62N33 |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | | ILLINOIS | FED. AID PROJECT |
| | PLOT DATE = | DATE - | REVISED - | | | | | |

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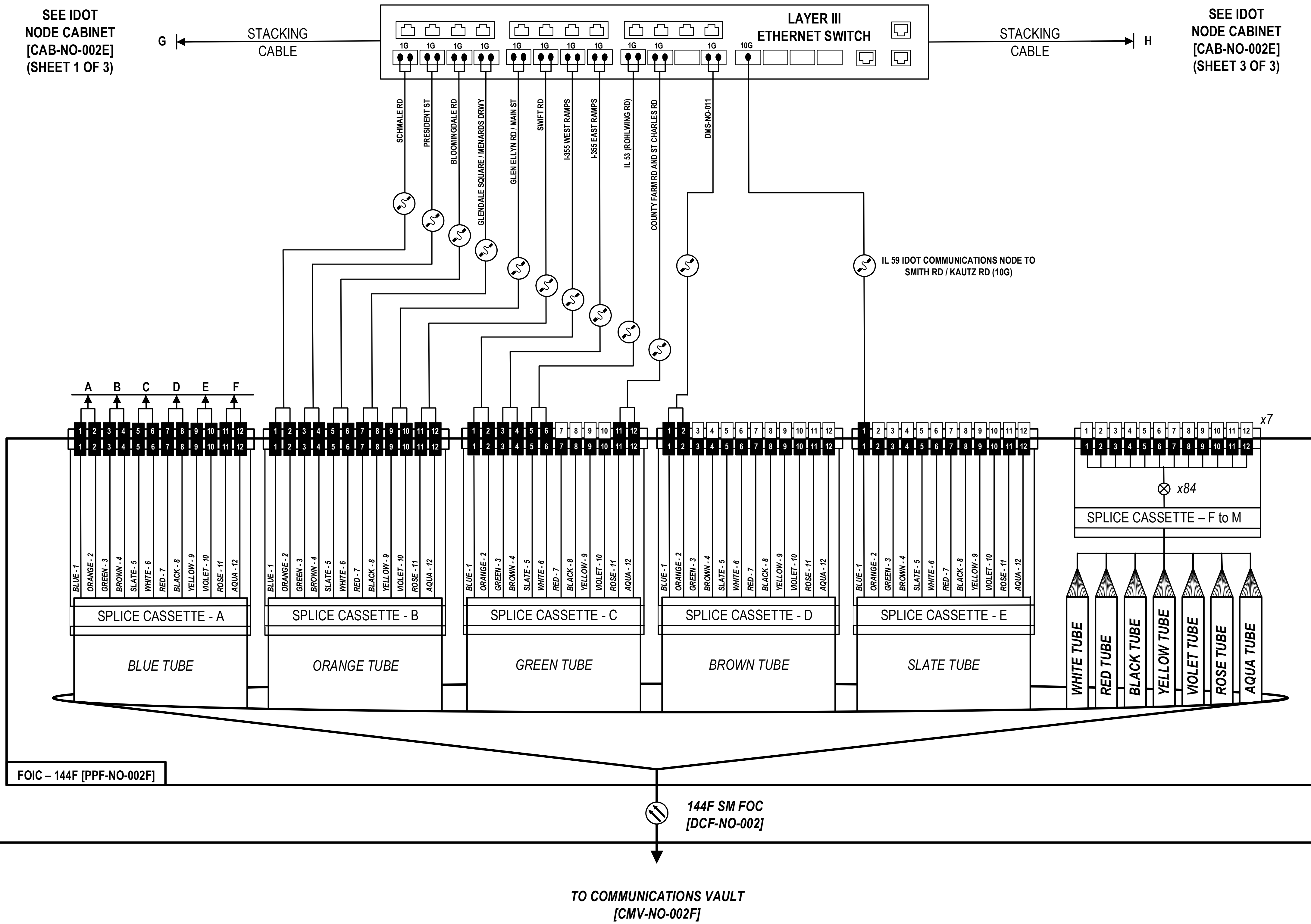
**IL 64 (NORTH AVENUE) AT IL 59**

**IDOT COMMUNICATIONS NODE CABINET [CAB-NO-002E]**

**NOTE:**

1) ALL FIBER OPTIC JUMP CABLES SHALL BE LC-LC CONNECTOR TYPE UNLESS APPROVED BY THE ENGINEER. NO ADAPTERS OR CONVERSION DEVICES WILL BE ALLOWED.




| | | | | | | |
|---|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS IDOT NODE CABINET [CAB-NO-002E (SHEET 2 OF 3) | |
| | | DRAWN - | REVISED - | | | |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | | |
| | PLOT DATE = | DATE - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. | |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 398 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS FED. AID PROJECT | | |

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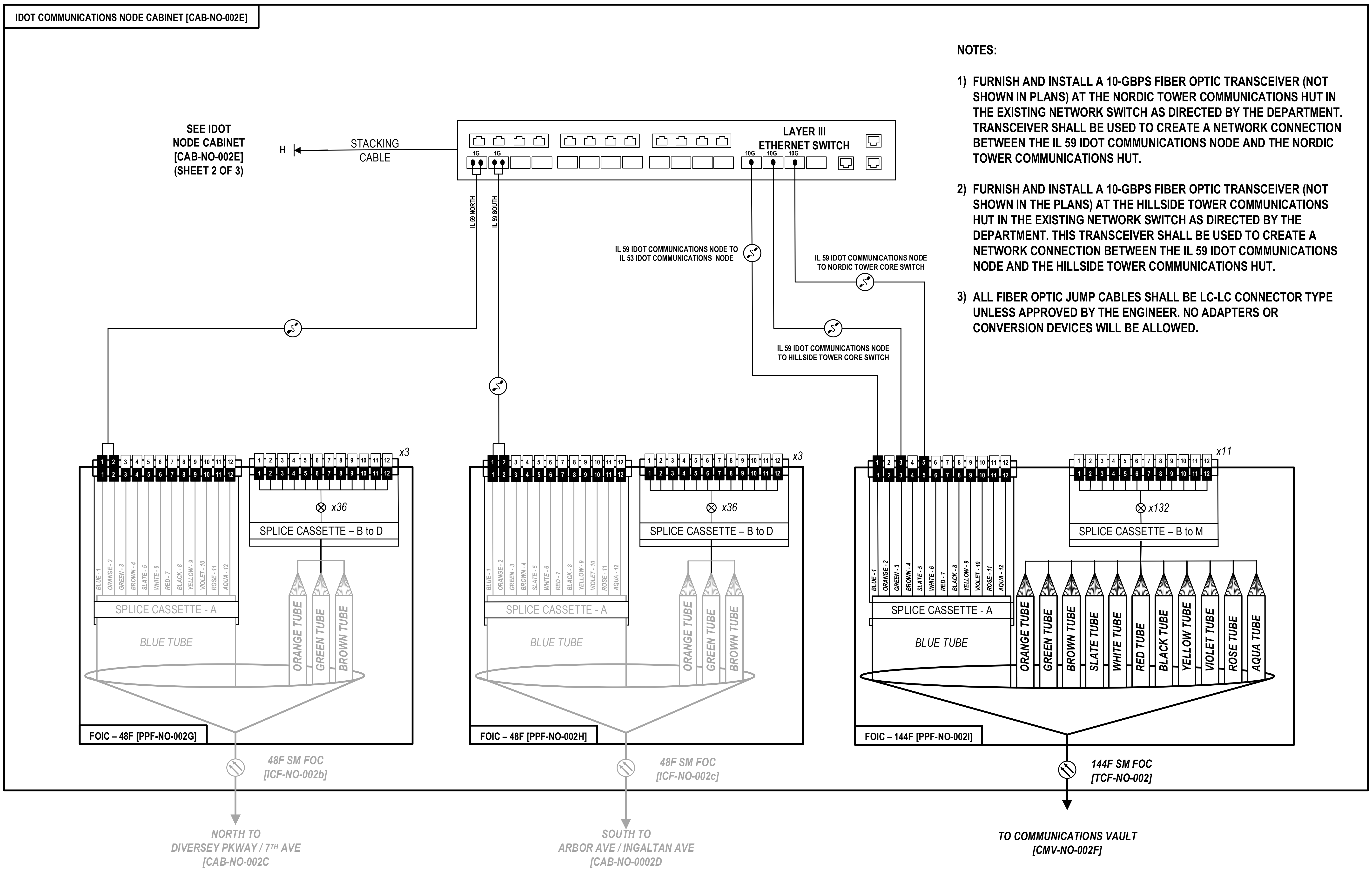
## IL 64 (NORTH AVENUE) AT IL 59




NOTES:

1) FURNISH AND INSTALL A 10-GBPS FIBER OPTIC TRANSCEIVER (NOT SHOWN IN PLANS) AT THE NORDIC TOWER COMMUNICATIONS HUT IN THE EXISTING NETWORK SWITCH AS DIRECTED BY THE DEPARTMENT. TRANSCEIVER SHALL BE USED TO CREATE A NETWORK CONNECTION BETWEEN THE IL 59 IDOT COMMUNICATIONS NODE AND THE NORDIC TOWER COMMUNICATIONS HUT.

2) FURNISH AND INSTALL A 10-GBPS FIBER OPTIC TRANSCEIVER (NOT SHOWN IN THE PLANS) AT THE HILLSIDE TOWER COMMUNICATIONS HUT IN THE EXISTING NETWORK SWITCH AS DIRECTED BY THE DEPARTMENT. THIS TRANSCEIVER SHALL BE USED TO CREATE A NETWORK CONNECTION BETWEEN THE IL 59 IDOT COMMUNICATIONS NODE AND THE HILLSIDE TOWER COMMUNICATIONS HUT.

3) ALL FIBER OPTIC JUMP CABLES SHALL BE LC-LC CONNECTOR TYPE UNLESS APPROVED BY THE ENGINEER. NO ADAPTERS OR CONVERSION DEVICES WILL BE ALLOWED.

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Kimley»Horn

| | | |
|---|---|---|
| USER NAME = | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = | DATE - | REVISED - |

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

**FIBER SPLICING AND CABINET CONNECTION DETAILS**
**IDOT NODE CABINET [CAB-NO-002E] (SHEET 3 OF 3)**

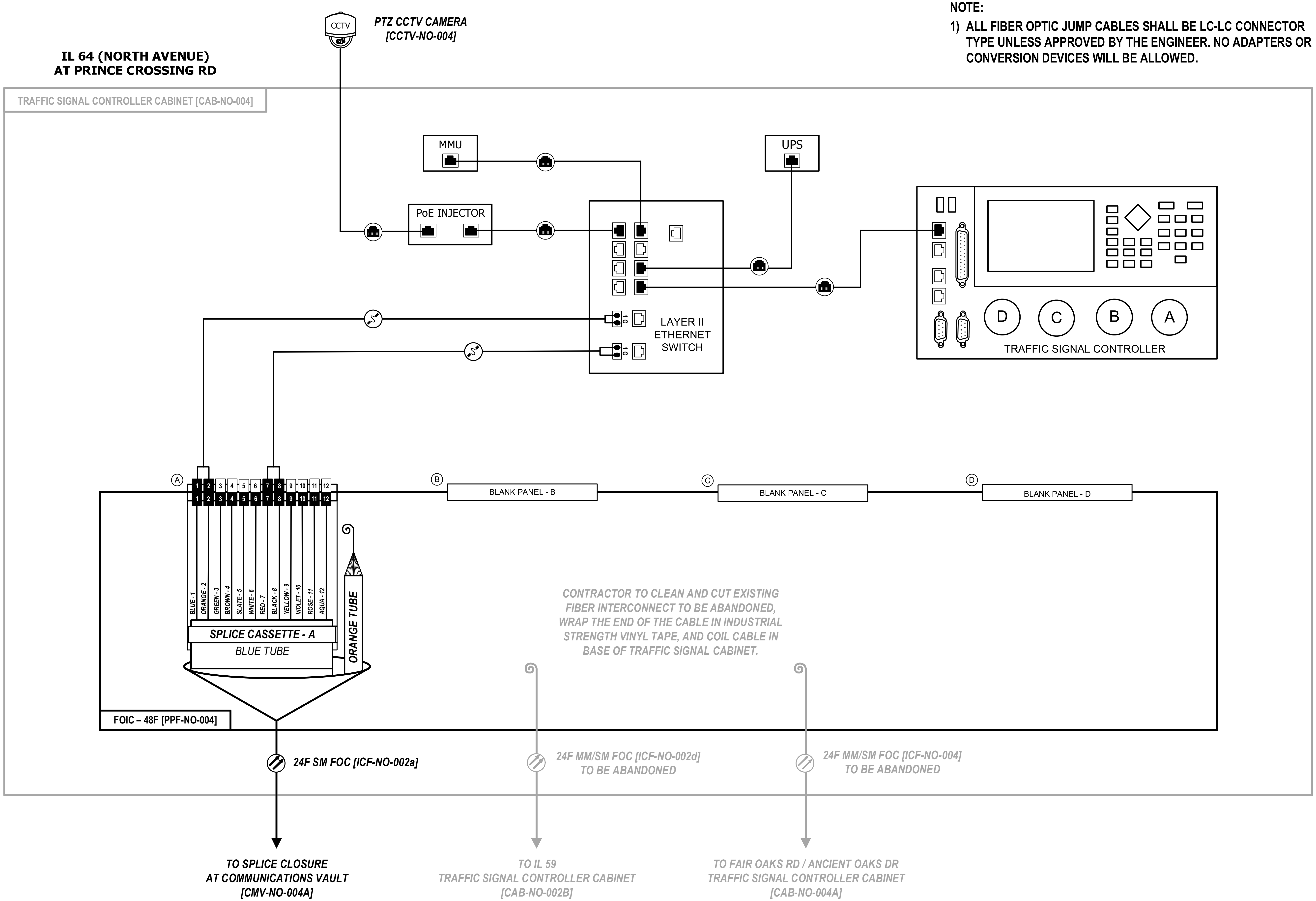
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 399 |
| | | CONTRACT NO. 62N33 | | |

ILLINOIS FED. AID PROJECT

NOTE:

1) ALL FIBER OPTIC JUMP CABLES SHALL BE LC-LC CONNECTOR TYPE UNLESS APPROVED BY THE ENGINEER. NO ADAPTERS OR CONVERSION DEVICES WILL BE ALLOWED.

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| | | | | | |
|---|---|---|---|---|---|
| Kimley»Horn | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER SPLICING AND CABINET CONNECTION DETAILS TRAFFIC SIGNAL CONTROLLER CABINET [CAB-NO-004] |
| | | DRAWN - | REVISED - | | SCALE: SHEET OF SHEETS STA. TO STA. |
| | PLOT SCALE = N.T.S. | CHECKED - | REVISED - | | |
| | PLOT DATE = | DATE - | REVISED - | | |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 307 | 2020-263-SUR,SW&TS | DUPAGE | 529 | 400 |
| | | CONTRACT NO. 62N33 | | |
| | | ILLINOIS | FED. AID PROJECT | |