

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**PROPOSED  
 HIGHWAY PLANS**

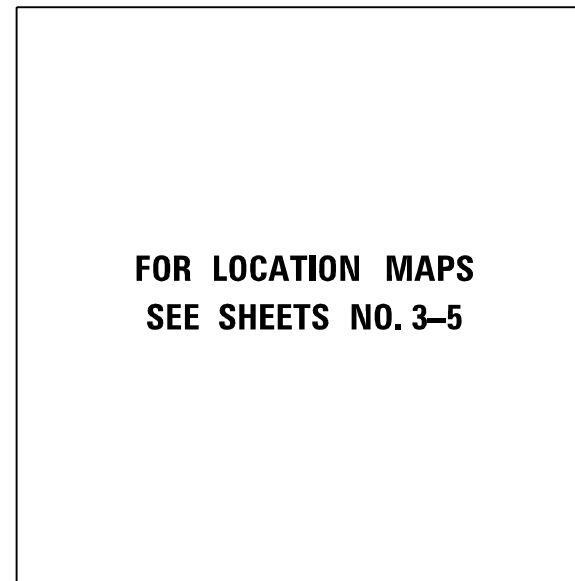
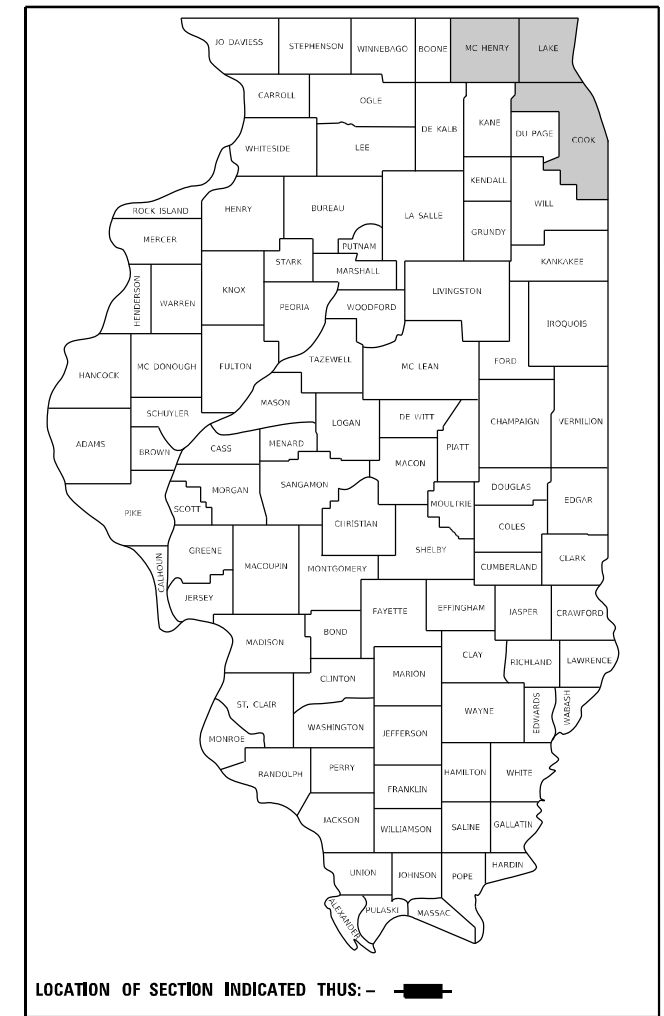
VARIOUS LOCATIONS IN DISTRICT 1  
 SECTION: 2023 VAR PUSH BUTTON  
 PROJECT: HSIP – 3TWT(745)  
 APS PUSH BUTTON INSTALLATION  
 VARIOUS COUNTIES

C-91-171-23

FOR INDEX OF SHEETS, SEE SHEET NO. 2

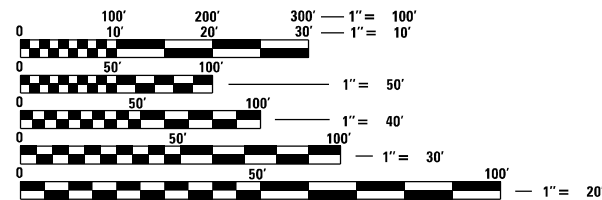
| F.A. RTE. | SECTION              | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|-----------|----------------------|----------|--------------------|-----------|
| VAR       | 2023 VAR PUSH BUTTON | VARIOUS  | 14                 | 1         |
|           |                      | ILLINOIS | CONTRACT NO. 62U86 |           |

D-91-121-23



FOR LOCATION MAPS  
 SEE SHEETS NO. 3-5

VARIOUS TOWNSHIPS



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

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

PROJECT ENGINEER: IOVAN PLASCENCIA (847) 705-4504  
 PROJECT MANAGER: NICHOLAS BUTLER (847) 705-4420

CONTRACT NO. 62U86

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED AUGUST 22 2023  
Jose Rios  
 REGIONAL ENGINEER

October 13, 2023  
[Signature]  
 ENGINEER OF DESIGN AND ENVIRONMENT

October 13, 2023  
[Signature]  
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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 OF THE STATE OF ILLINOIS**

**INDEX OF SHEETS**

| SHT NO. | DESCRIPTION   |
|---------|---|
| 1       | COVER SHEET   |
| 2       | INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES     |
| 3-5     | LOCATION MAPS   |
| 6       | SUMMARY OF QUANTITIES                                     |
| 7-13    | DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05) |
| 14      | SCHEDULE OF QUANTITIES                                    |

**HIGHWAY STANDARDS**

| STD. NO.  | TITLE  |
|-----------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                 |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT                             |
| 701006-05 | OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE    |
| 701101-05 | OFF-ROAD OPERATIONS MULTILANE, 15' TO 24" FROM PAVEMENT EDGE |
| 701701-10 | URBAN LANE CLOSURE MULTILANE INTERSECTION                    |
| 701901-08 | TRAFFIC CONTROL DEVICES                                      |
| 880006-01 | TRAFFIC SIGNAL MOUNTING DETAILS                              |

**GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV, 72 HOURS IN ADVANCE OF BEGINNING WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR UNDERGROUND AND OVERHEAD UTILITY CONFLICTS, THE CONTRACTOR SHALL NOTIFY THE AREA ENGINEER, THE RESIDENT ENGINEER AND ANY IMPACTED UTILITY COMPANY OF THE CONFLICT, AND SHALL COORDINATE AND RESOLVE THE ISSUE PRIOR TO ORDERING MATERIALS, AND PRIOR TO POURING FOUNDATIONS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

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| PLOT DATE = 8/24/2023         | DATE - 8/15/2023 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

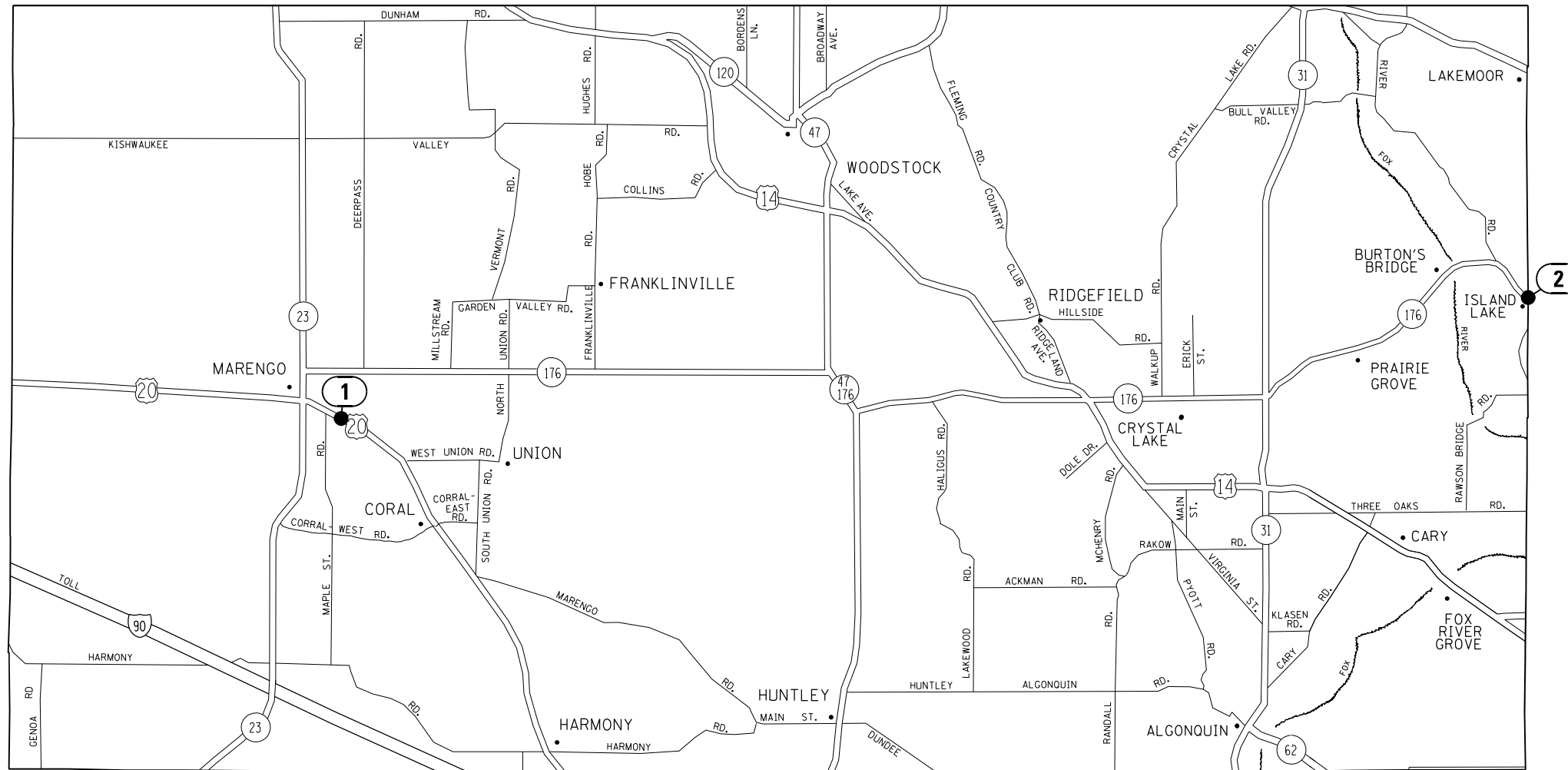
**INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES**

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| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS       | SHEET NO. |
|---------------------------|----------------------|---------|--------------------|-----------|
| VAR                       | 2023 VAR PUSH BUTTON | VARIOUS | 14                 | 2         |
|                           |                      |         | CONTRACT NO. 62U86 |           |
| ILLINOIS FED. AID PROJECT |                      |         |                    |           |



| LOCATION NO. | TS NO. | INTERSECTION NAME                               | MUNICIPALITY |
|--------------|--------|---|--------------|
| 1            | 21968  | US RTE 20 AT PROSPECT ST                        | MARENGO      |
| 2            | 11880  | IL RTE 176 (STATE RD) AT ROBERTS RD / MIDWAY DR | ISLAND LAKE  |
|              |        |   |              |
|              |        |   |              |



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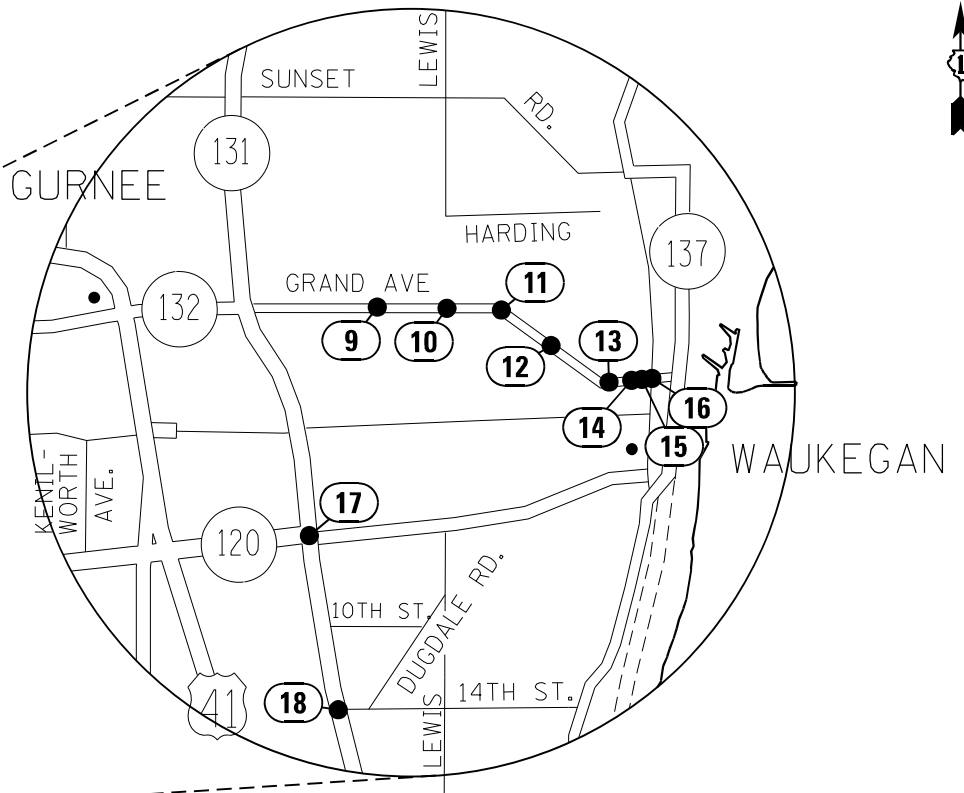
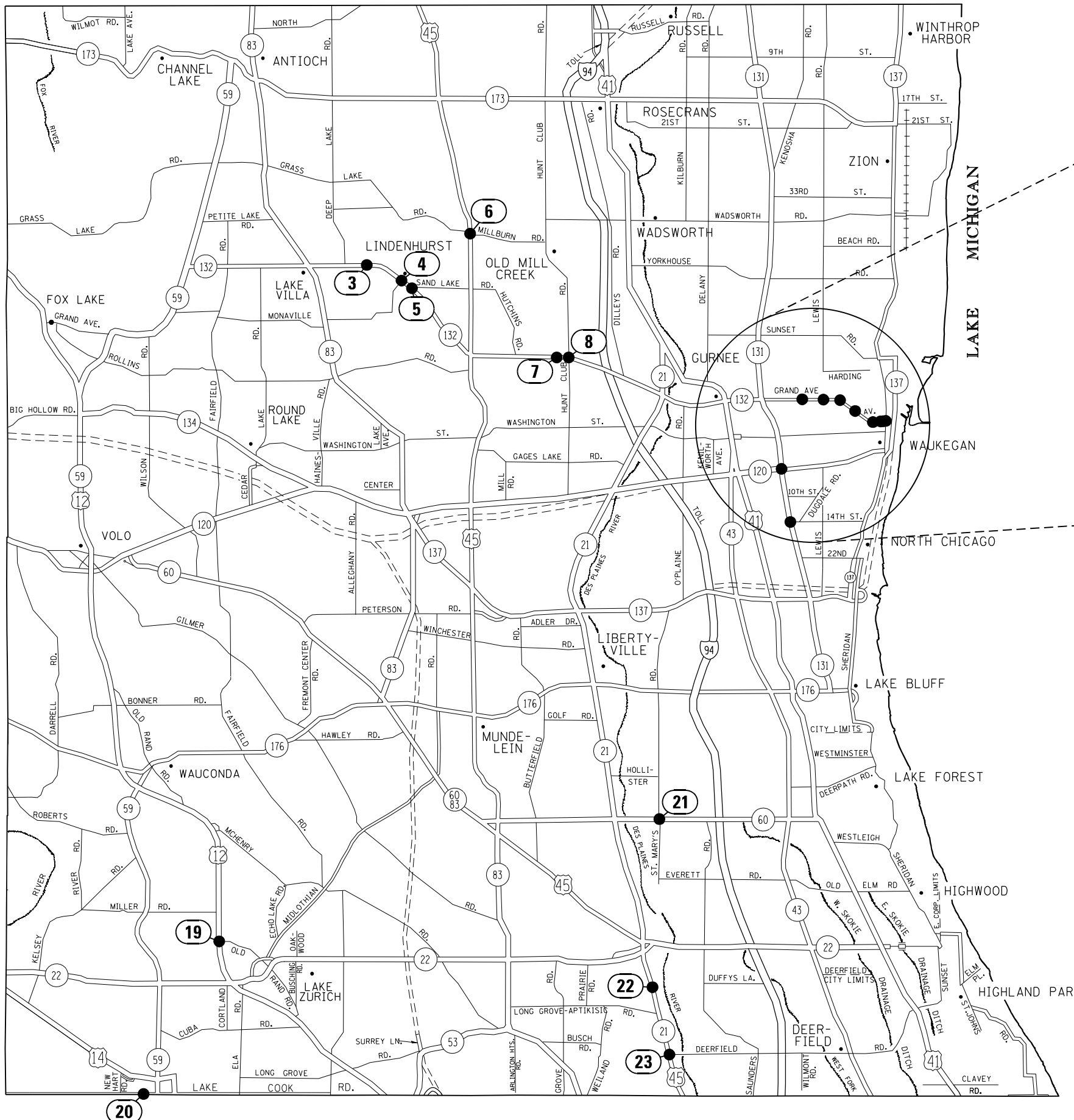
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP (SHEET 1 OF 3)**  
**SOUTH MCHENRY COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|---------|--------------|-----------|
| VAR                       | 2023 VAR PUSH BUTTON | VARIOUS | 14           | 3         |
| CONTRACT NO. 62UB6        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |



| LOCATION NO. | TS NO. | INTERSECTION NAME  | MUNICIPALITY   |
|--------------|--------|--|----------------|
| 3            | 7081   | IL RTE 132 (GRAND AVE) AT MUNN RD                                  | LINDENHURST    |
| 4            | 7075   | IL RTE 132 (GRAND AVE) AT GRANADA BLVD / LINDENHURST DR            | LINDENHURST    |
| 5            | 7070   | IL RTE 132 (GRAND AVE) AT SAND LAKE RD                             | LINDENHURST    |
| 6            | 6670   | US RTE 45 AT MILLBURN RD / GRASS LAKE RD                           | OLD CREEK MILL |
| 7            | 21115  | IL RTE 132 (GRAND AVE) AT SAMS CLUB ENT / WALMART ENT              | GURNEE         |
| 8            | 7060   | IL RTE 132 (GRAND AVE) AT HUNT CLUB RD                             | GURNEE         |
| 9            | 14985  | GRAND AVE AT MCAREE RD   | WAUKEGAN       |
| 10           | 15015  | GRAND AVE AT LEWIS AVE   | WAUKEGAN       |
| 11           | 15010  | GRAND AVE AT BUTRICK ST  | WAUKEGAN       |
| 12           | 15005  | GRAND AVE AT JACKSON ST  | WAUKEGAN       |
| 13           | 15000  | GRAND AVE AT WEST ST   | WAUKEGAN       |
| 14           | 14995  | GRAND AVE AT COUNTY ST   | WAUKEGAN       |
| 15           | 14990  | GRAND AVE AT GENESEE ST  | WAUKEGAN       |
| 16           | 15050  | GRAND AVE AT SHERIDAN RD   | WAUKEGAN       |
| 17           | 7820   | IL RTE 131 (GREEN BAY RD) AT IL RTE 120 (BELVIDERE RD)             | WAUKEGAN       |
| 18           | 9375   | IL RTE 131 (GREEN BAY RD) AT PULASKI MEMORIAL DR / 14TH ST         | NORTH CHICAGO  |
| 19           | 950    | US 12 (RAND RD) AT RAVINIA TERRACE / N OLD RAND RD                 | LAKE ZURICH    |
| 20           | 21845  | COUNTY LINE RD (MAIN ST) AT DUNDEE AVE                             | BARRINGTON     |
| 21           | 6895   | IL RTE 60 AT ST MARYS RD   | VERNON HILLS   |
| 22           | 21405  | US RTE 45 / IL RTE 21 (MILWAUKEE AVE) AT TOWER PKWY / RIVERSIDE RD | LINCOLNSHIRE   |
| 23           | 6650   | US RTE 45 / IL RTE 21 (MILWAUKEE AVE) AT DEERFIELD RD              | RIVERWOODS     |

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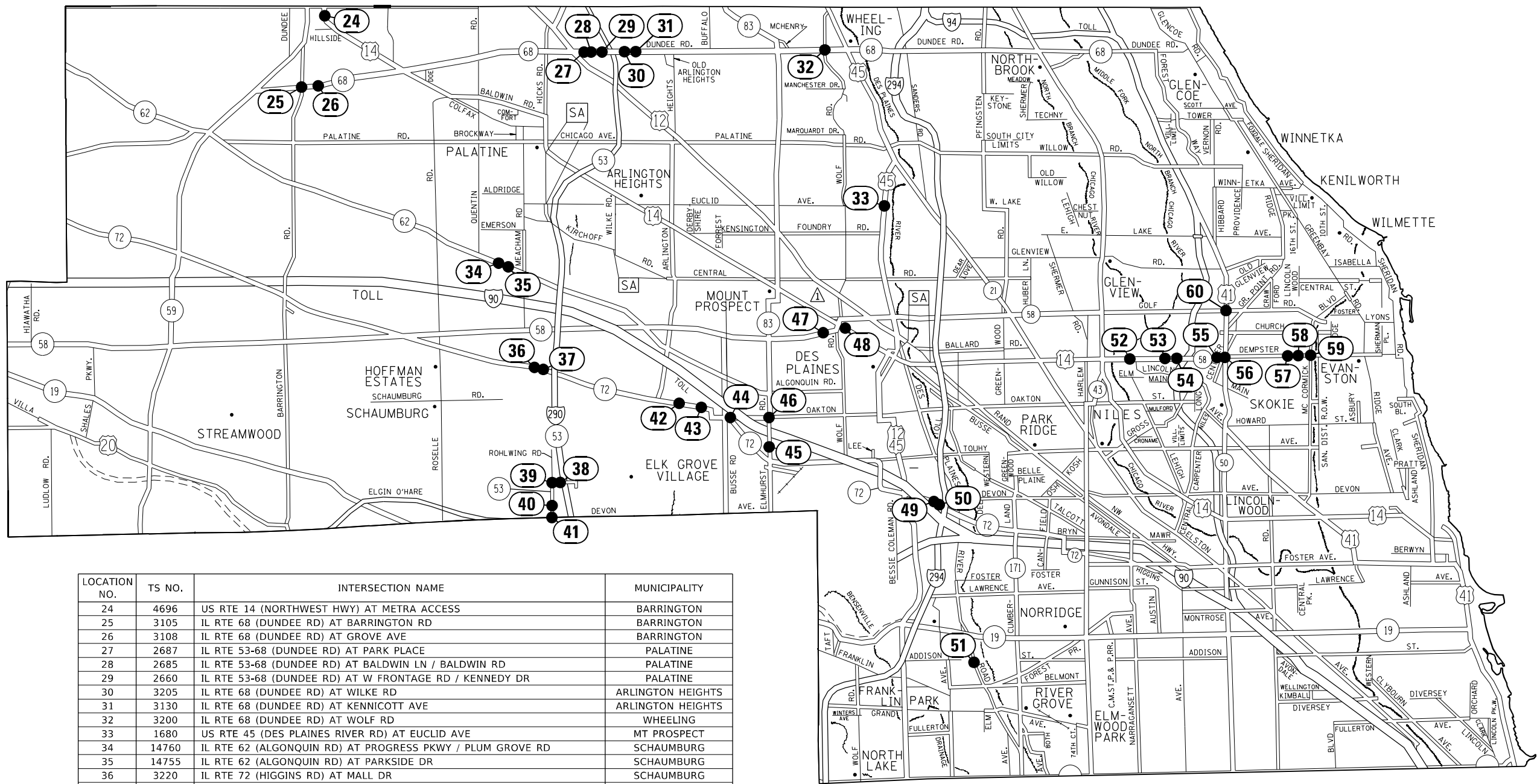
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP (SHEET 2 OF 3)**  
**LAKE COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |                      |         |                    |           |
|---------------------------|----------------------|---------|--------------------|-----------|
| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS       | SHEET NO. |
| VAR                       | 2023 VAR PUSH BUTTON | VARIOUS | 14                 | 4         |
|                           |                      |         | CONTRACT NO. 62UB6 |           |
| ILLINOIS FED. AID PROJECT |                      |         |                    |           |



| LOCATION NO. | TS NO. | INTERSECTION NAME   | MUNICIPALITY      |
|--------------|--------|---|-------------------|
| 24           | 4696   | US RTE 14 (NORTHWEST HWY) AT METRA ACCESS                 | BARRINGTON        |
| 25           | 3105   | IL RTE 68 (DUNDEE RD) AT BARRINGTON RD                    | BARRINGTON        |
| 26           | 3108   | IL RTE 68 (DUNDEE RD) AT GROVE AVE                        | BARRINGTON        |
| 27           | 2687   | IL RTE 53-68 (DUNDEE RD) AT PARK PLACE                    | PALATINE          |
| 28           | 2685   | IL RTE 53-68 (DUNDEE RD) AT BALDWIN LN / BALDWIN RD       | PALATINE          |
| 29           | 2660   | IL RTE 53-68 (DUNDEE RD) AT W FRONTAGE RD / KENNEDY DR    | PALATINE          |
| 30           | 3205   | IL RTE 68 (DUNDEE RD) AT WILKE RD                         | ARLINGTON HEIGHTS |
| 31           | 3130   | IL RTE 68 (DUNDEE RD) AT KENNICOTT AVE                    | ARLINGTON HEIGHTS |
| 32           | 3200   | IL RTE 68 (DUNDEE RD) AT WOLF RD                          | WHEELING          |
| 33           | 1680   | US RTE 45 (DES PLAINES RIVER RD) AT EUCLID AVE            | MT PROSPECT       |
| 34           | 14760  | IL RTE 62 (ALGONQUIN RD) AT PROGRESS PKWY / PLUM GROVE RD | SCHAUMBURG        |
| 35           | 14755  | IL RTE 62 (ALGONQUIN RD) AT PARKSIDE DR                   | SCHAUMBURG        |
| 36           | 3220   | IL RTE 72 (HIGGINS RD) AT MALL DR                         | SCHAUMBURG        |
| 37           | 3225   | IL RTE 72 (HIGGINS RD) AT MARTINGALE RD                   | SCHAUMBURG        |
| 38           | 20605  | IL RTE 53 (BIESTERFIELD RD) AT I-290 - IL RTE 53 SB RAMPS | ELK GROVE VILLAGE |
| 39           | 13150  | IL RTE 53 (ROHLWING RD) AT BIESTERFIELD RD                | ELK GROVE VILLAGE |
| 40           | 13145  | IL RTE 53 (ROHLWING RD) AT NERGE RD                       | ELK GROVE VILLAGE |
| 41           | 5715   | IL RTE 53 (ROHLWING RD) AT DEVON AVE                      | ELK GROVE VILLAGE |
| 42           | 3335   | IL RTE 72 (HIGGINS RD) AT INNOVATION ST / KING ST         | ELK GROVE VILLAGE |
| 43           | 13140  | IL RTE 72 (HIGGINS RD) AT LIVELY BLVD                     | ELK GROVE VILLAGE |
| 44           | 3275   | IL RTE 72-83 (OAKTON ST) AT IL RTE 72 (HIGGINS RD) EAST   | ELK GROVE VILLAGE |
| 45           | 3318   | ELMHURST RD AT LANDMEIER RD                               | ELK GROVE VILLAGE |
| 46           | 3350   | IL RTE 83 (ELMHURST RD) AT IL RTE 83 (OAKTON ST)          | DES PLAINES       |
| 47           | 13022  | IL RTE 58 (GOLF RD) AT MARIANO'S ENTRANCE                 | DES PLAINES       |
| 48           | 13083  | US RTE 14 (NORTHWEST HWY) AT BROADWAY                     | DES PLAINES       |
| 49           | 9085   | IL RTE 72 (HIGGINS RD) AT DEVON AVE                       | ROSEMONT          |
| 50           | 9087   | IL RTE 72 (HIGGINS RD) AT WINTRUST ACCESS                 | ROSEMONT          |
| 51           | 4207   | DES PLAINES RIVER RD AT ROBINSON RD                       | FRANKLIN PARK     |
| 52           | 14290  | IL RTE 58 (DEMPSTER ST) AT LEHIGH AVE                     | MORTON GROVE      |
| 53           | 14310  | IL RTE 58 (DEMPSTER ST) AT MENARD AVE                     | MORTON GROVE      |
| 54           | 14315  | IL RTE 58 (DEMPSTER ST) AT CENTRAL AVE                    | MORTON GROVE      |
| 55           | 2735   | IL RTE 58 (DEMPSTER ST) AT BRONX AVE                      | SKOKIE            |
| 56           | 2820   | IL RTE 58 (DEMPSTER ST) AT ST LOUIS AVE / LINCOLNWOOD DR  | SKOKIE            |
| 57           | 5020   | DEMPSTER ST AT EAST PRAIRIE ST                            | SKOKIE            |
| 58           | 5025   | DEMPSTER ST AT ST LOUIS AVE / LINCOLNWOOD DR              | SKOKIE            |
| 59           | 5035   | DEMPSTER ST AT MCCORMICK BLVD                             | SKOKIE            |
| 60           | 1525   | US RTE 41 (SKOKIE BLVD) AT GOLF RD                        | SKOKIE            |

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

|                             |       |           |              |
|-----------------------------|-------|-----------|--------------|
| LOCATION MAP (SHEET 3 OF 3) |       |           |              |
| NORTH COOK COUNTY           |       |           |              |
| SCALE:                      | SHEET | OF SHEETS | STA. TO STA. |

|                           |                      |         |              |           |
|---------------------------|----------------------|---------|--------------|-----------|
| F.A. RTE.                 | SECTION              | COUNTY  | TOTAL SHEETS | SHEET NO. |
| VAR                       | 2023 VAR PUSH BUTTON | VARIOUS | 14           | 5         |
| CONTRACT NO. 62U86        |                      |         |              |           |
| ILLINOIS FED. AID PROJECT |                      |         |              |           |

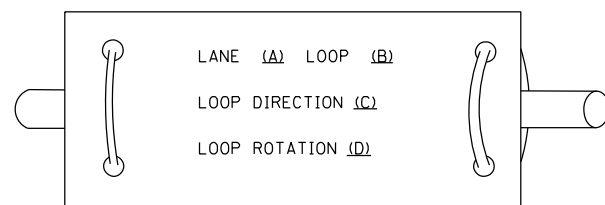




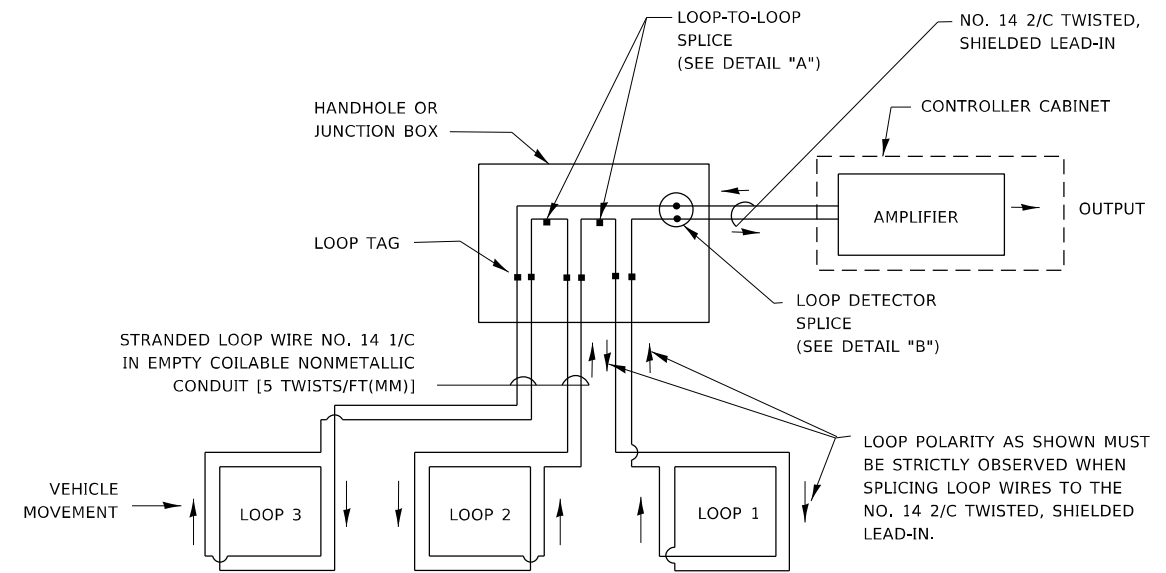
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

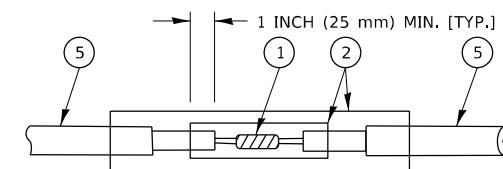


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

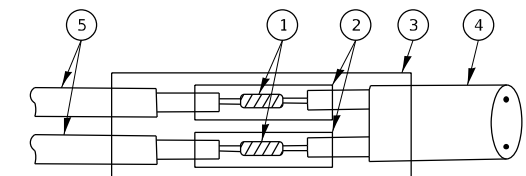


**DETECTOR LOOP WIRING SCHEMATIC**

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

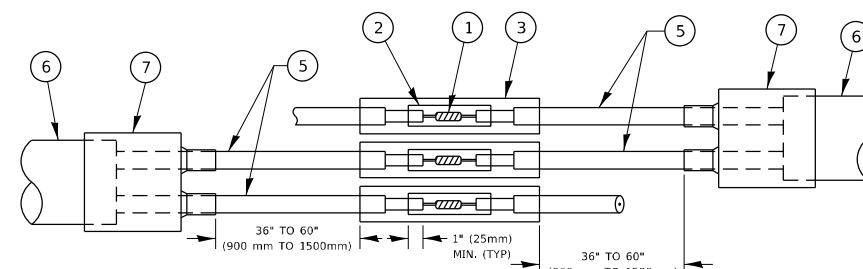


DETAIL "A"  
LOOP-TO-LOOP SPLICE

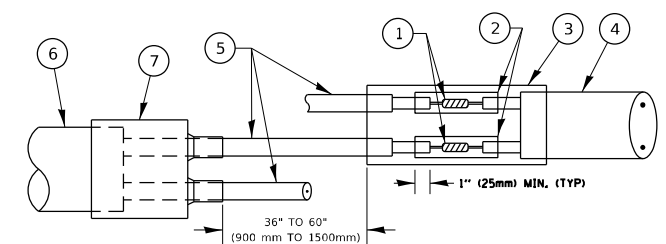


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PREFORMED LOOP**

**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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|                               |            |           |
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| USER NAME = Iovan,Plascencia  | DESIGNED - | REVISED - |
|                               | DRAWN -    | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED -  | REVISED - |
| PLOT DATE = 8/24/2023         | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

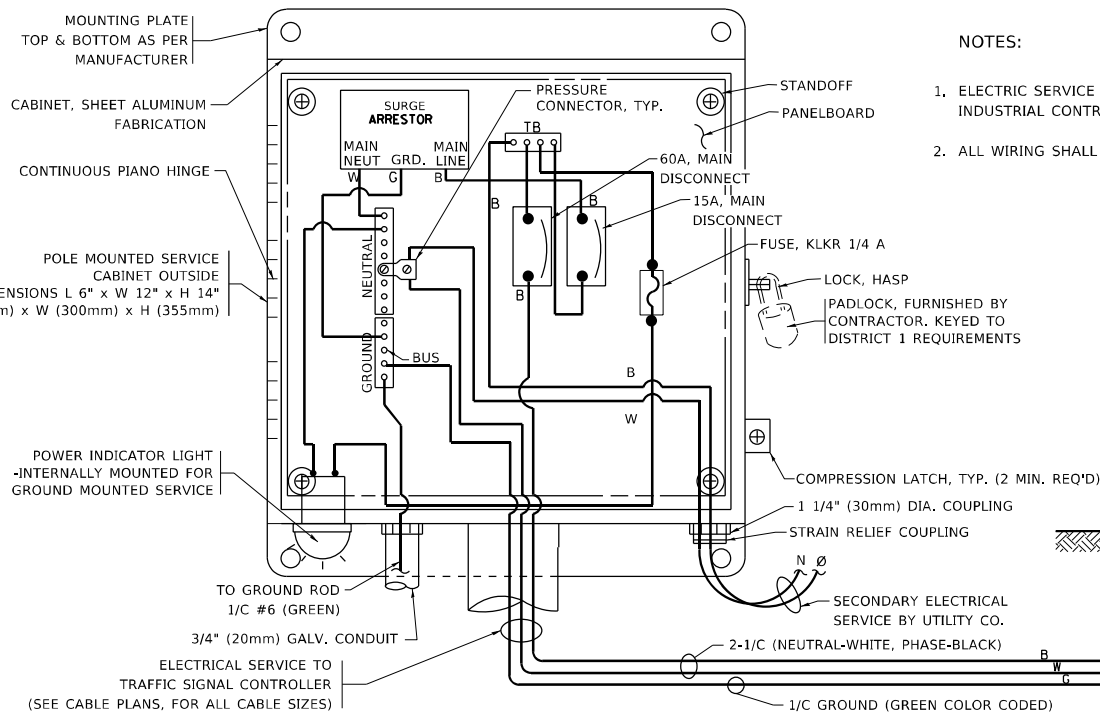
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

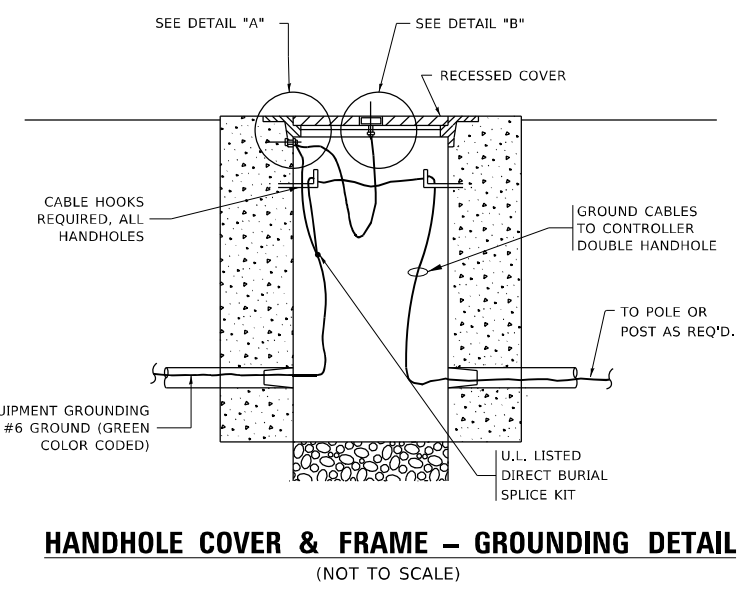
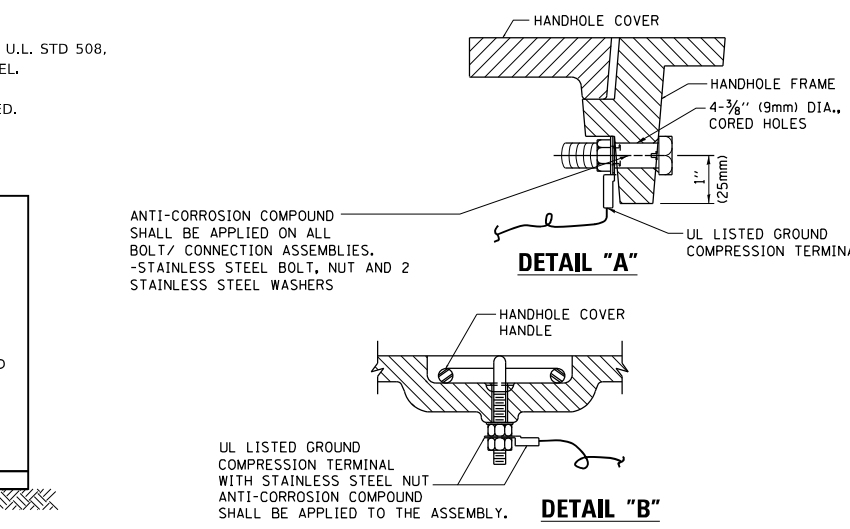
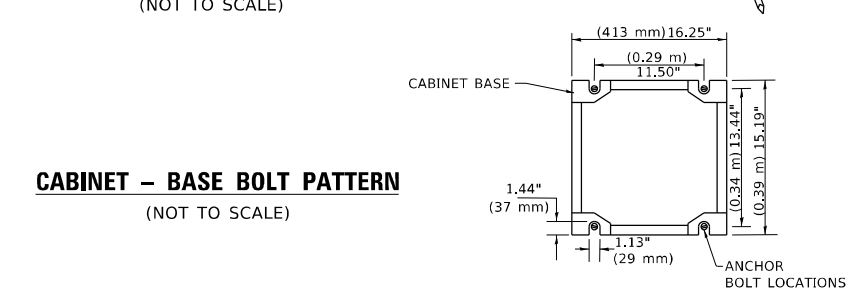
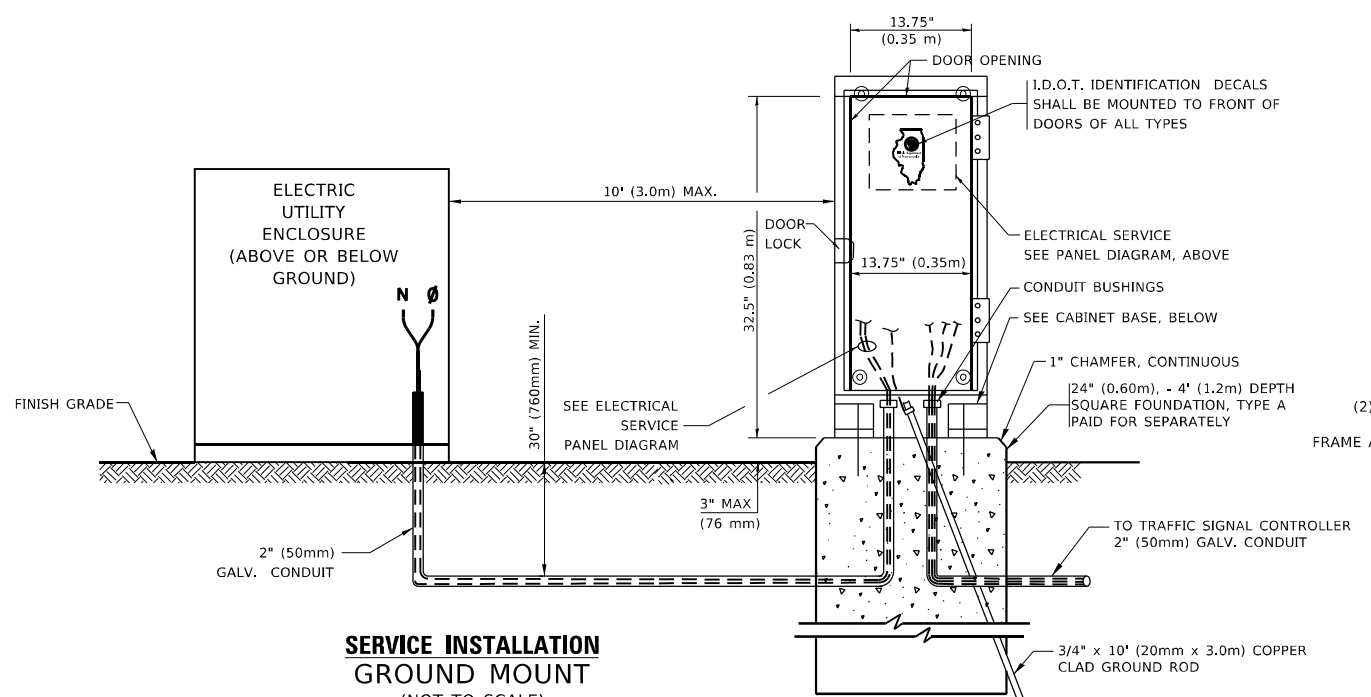
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|--------------|----------------------|------------------|--------------------|-----------|
| F.A. RTE.    | SECTION              | COUNTY           | TOTAL SHEETS       | SHEET NO. |
| VAR          | 2023 VAR PUSH BUTTON | VARIOUS          | 14                 | 8         |
| <b>TS-05</b> |                      |                  | CONTRACT NO. 62U86 |           |
| ILLINOIS     |                      | FED. AID PROJECT |                    |           |



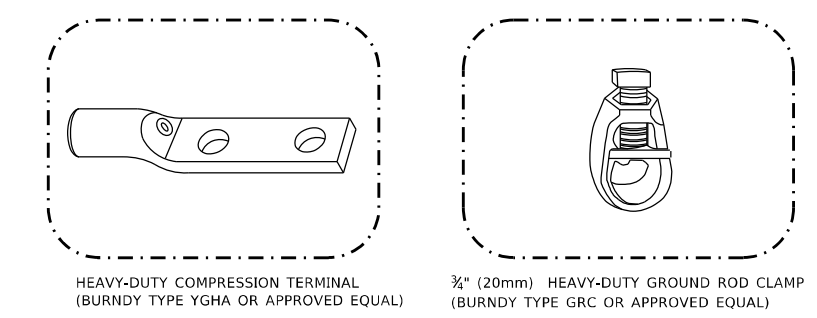




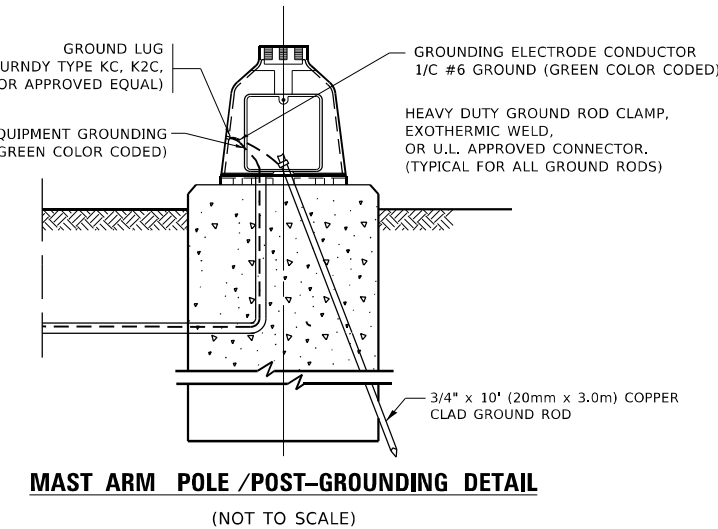
**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



- NOTES:**
- GROUNDING SYSTEM**
- 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.
  - 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.
  - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
  - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- 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.



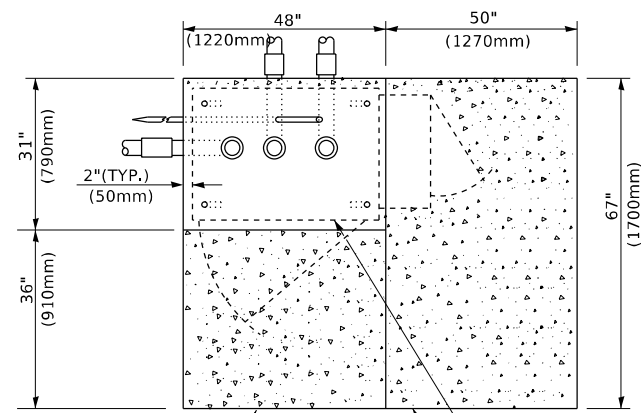
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|                              |            |           |
|------------------------------|------------|-----------|
| USER NAME = Iovan,Plascencia | DESIGNED - | REVISED - |
| DRAWN -                      | REVISED -  | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED -  | REVISED - |
| PLOT DATE = 8/24/2023        | DATE -     | REVISED - |

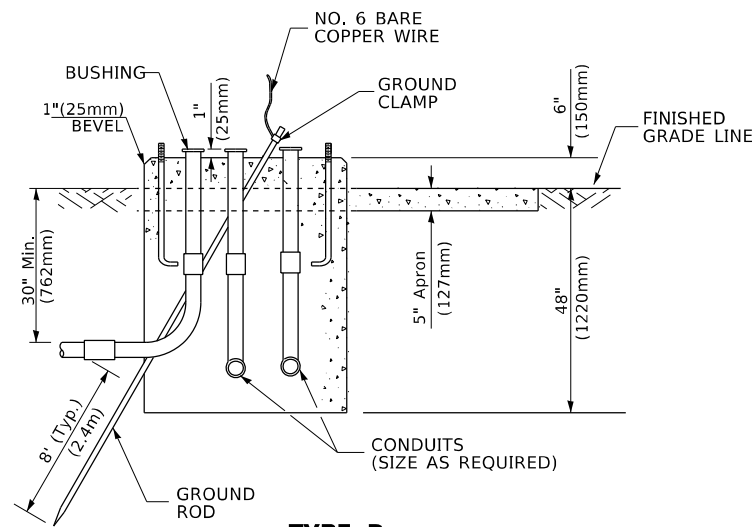
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

|   |         |             |              |
|---|---------|-------------|--------------|
| <b>DISTRICT ONE</b>                           |         |             |              |
| <b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b> |         |             |              |
| SCALE: NONE                                   | SHEET 4 | OF 7 SHEETS | STA. TO STA. |

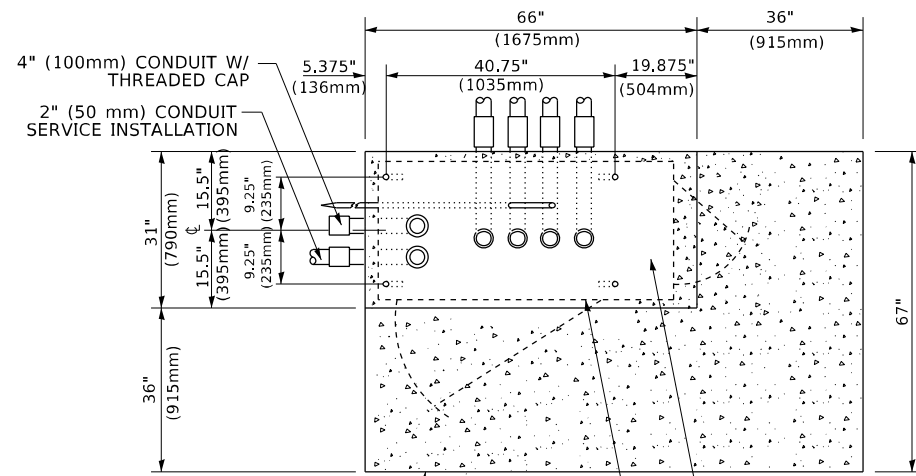
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|---------------------------|----------------------|--------------------|--------------|-----------|
| F.A. RTE.                 | SECTION              | COUNTY             | TOTAL SHEETS | SHEET NO. |
| VAR                       | 2023 VAR PUSH BUTTON | VARIOUS            | 14           | 10        |
| <b>TS-05</b>              |                      | CONTRACT NO. 62U86 |              |           |
| ILLINOIS FED. AID PROJECT |                      |                    |              |           |



**TOP VIEW**



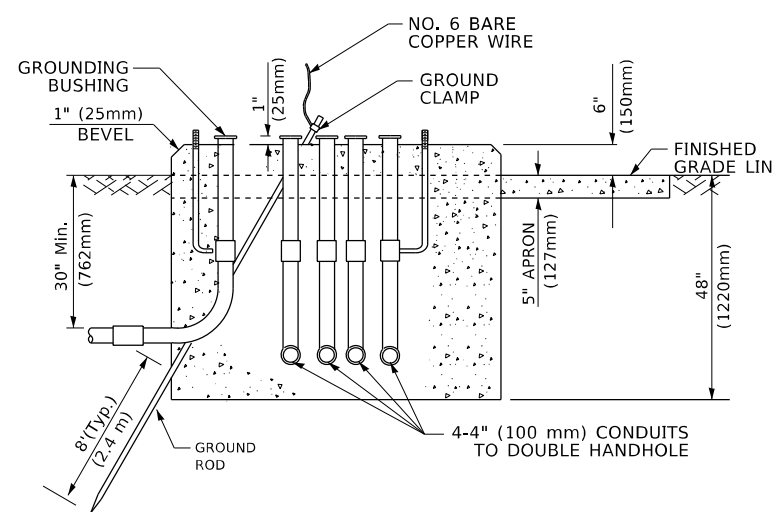
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



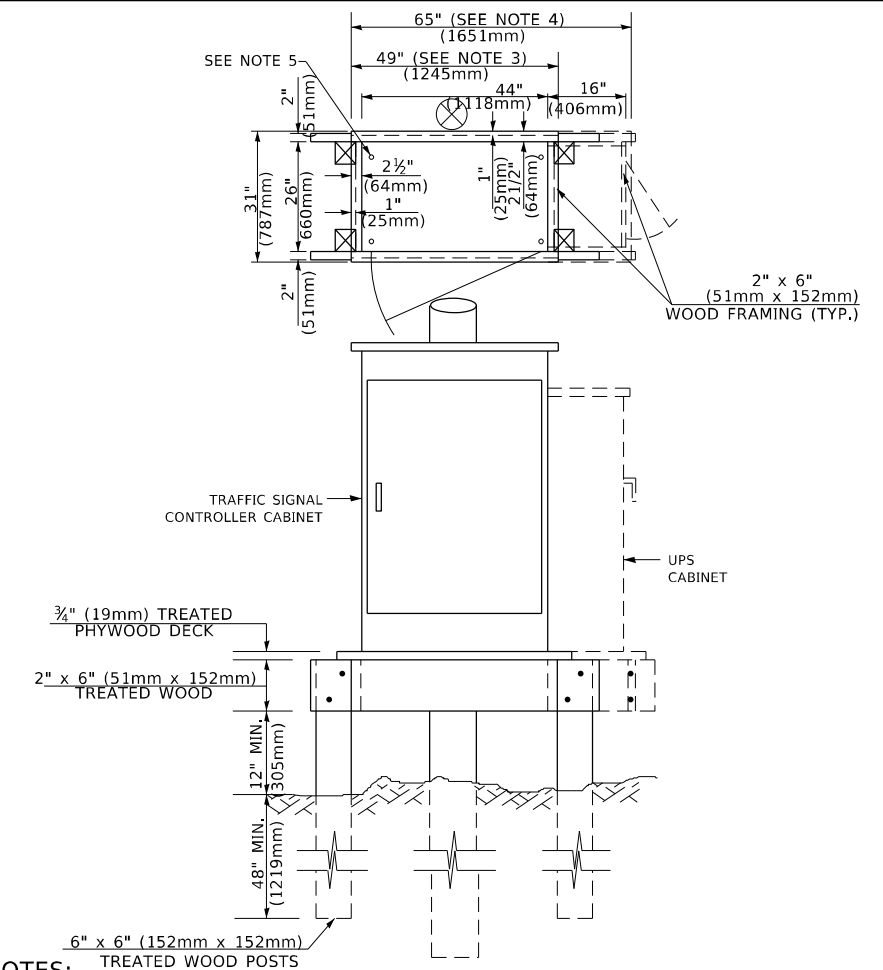
**TOP VIEW**

**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)<br>(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)          |
| Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m) | 11'-0" (3.4 m)     | 36" (900mm)         | 30" (750mm)     | 12                 | 7(22)          |
| Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)     | 13'-0" (4.0 m)     | 36" (900mm)         | 30" (750mm)     | 12                 | 7(22)          |
| Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m) | 15'-0" (4.6 m)     | 36" (900mm)         | 30" (750mm)     | 12                 | 7(22)          |
| Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)     | 21'-0" (6.4 m)     | 42" (1060mm)        | 36" (900mm)     | 16                 | 8(25)          |
|  | 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**

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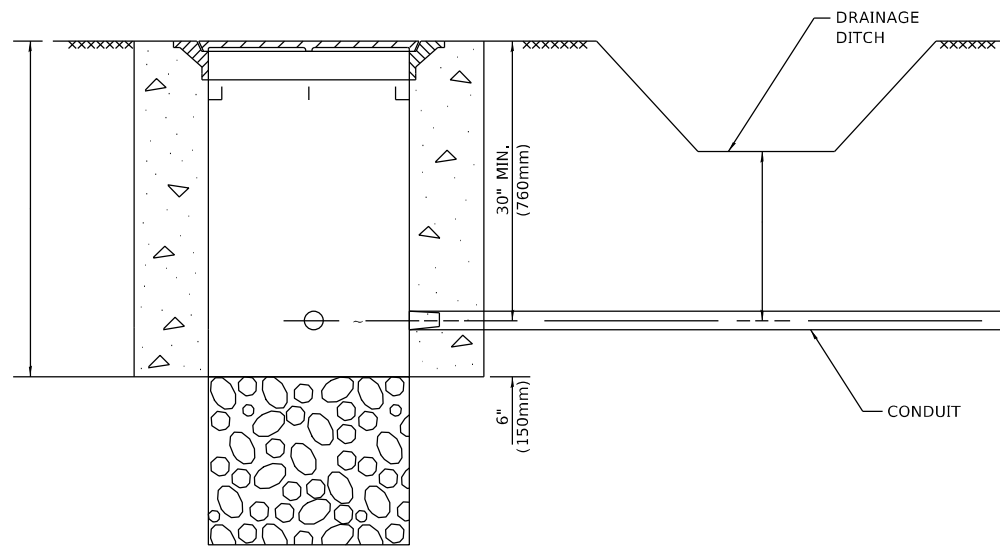
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|------------------------------|------------|-----------|
| USER NAME = Ivan.Plascencia  | DESIGNED - | REVISED - |
|                              | DRAWN -    | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED -  | REVISED - |
| PLOT DATE = 8/24/2023        | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

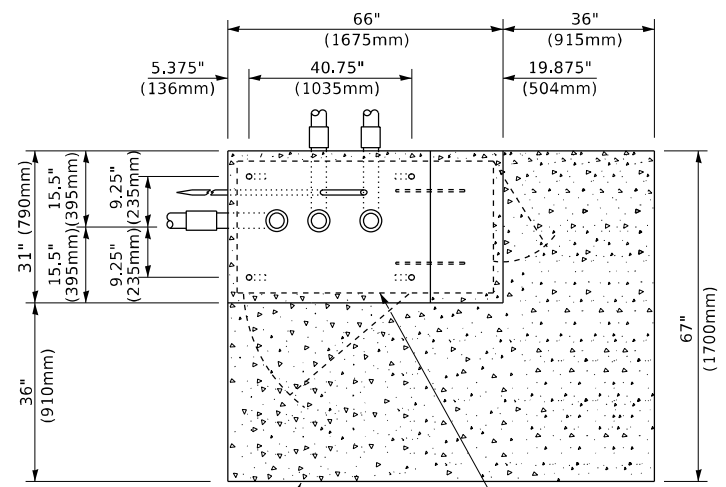
| F.A. RTE.    | SECTION              | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|--------------|----------------------|----------|--------------------|-----------|
| VAR          | 2023 VAR PUSH BUTTON | VARIOUS  | 14                 | 11        |
| <b>TS-05</b> |                      |          | CONTRACT NO. 62U86 |           |
|              |                      | ILLINOIS | FED. AID PROJECT   |           |



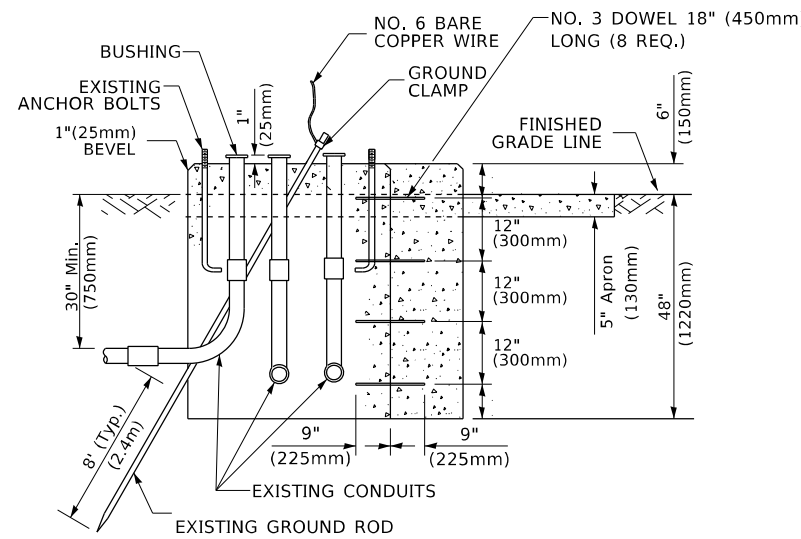
**NOTES:**

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.

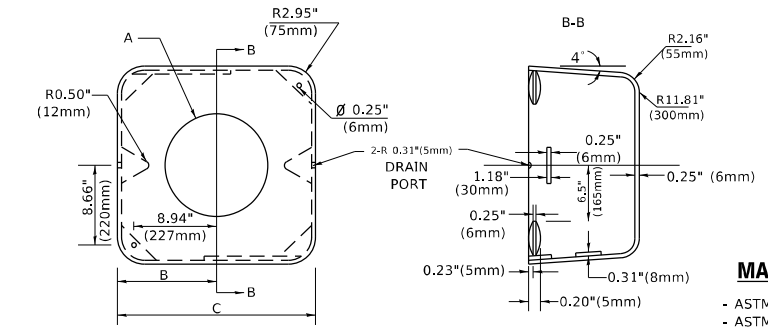
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**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) |

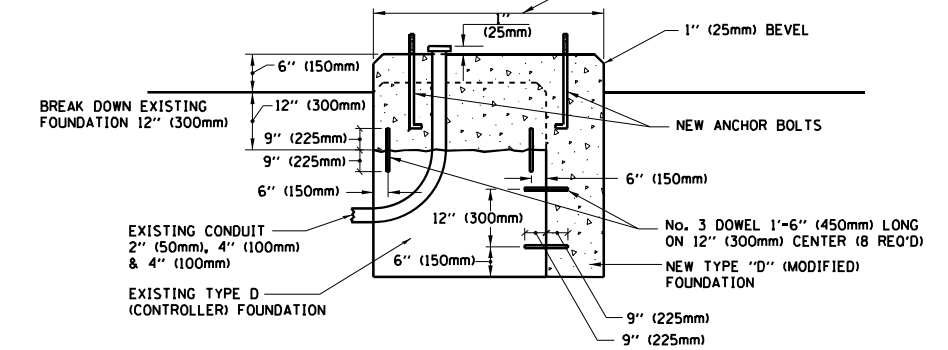
**SHROUD**

**NOTES:**

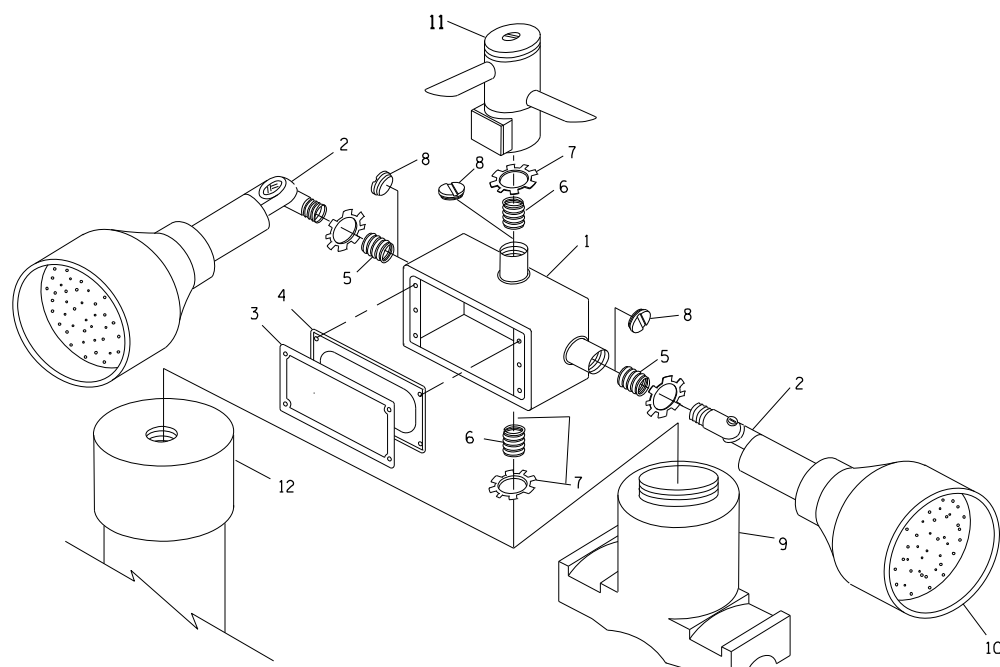
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**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**

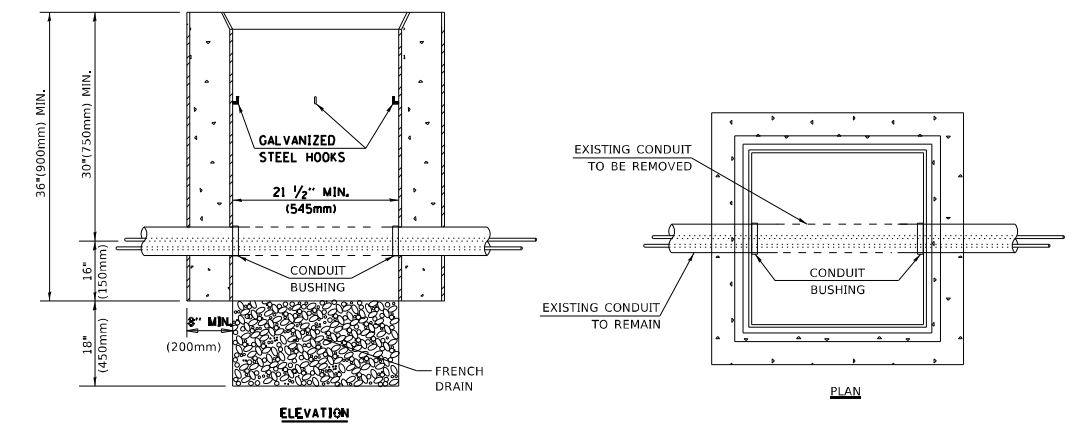


**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**

| 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        | 3/4"(19 mm) CLOSE NIPPLE                    |
| 7        | 3/4"(19 mm) LOCKNUT                         |
| 8        | 3/4"(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**

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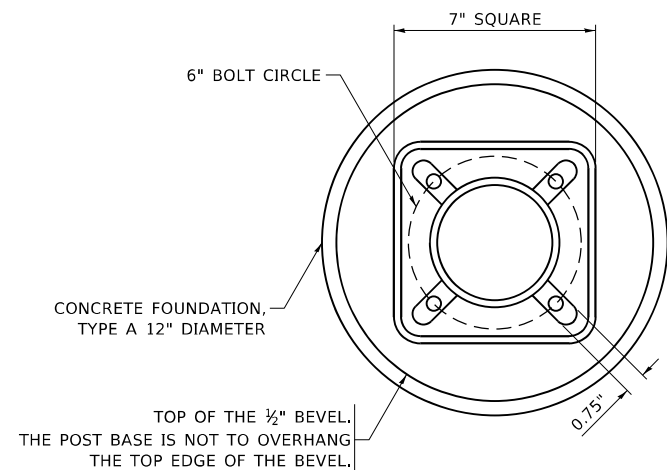
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|-------------------------------|------------|-----------|
| USER NAME = Ivan.Plascencia   | DESIGNED - | REVISED - |
| DRAWN -                       | REVISED -  |           |
| PLOT SCALE = 100,0000 ' / in. | CHECKED -  | REVISED - |
| PLOT DATE = 8/24/2023         | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

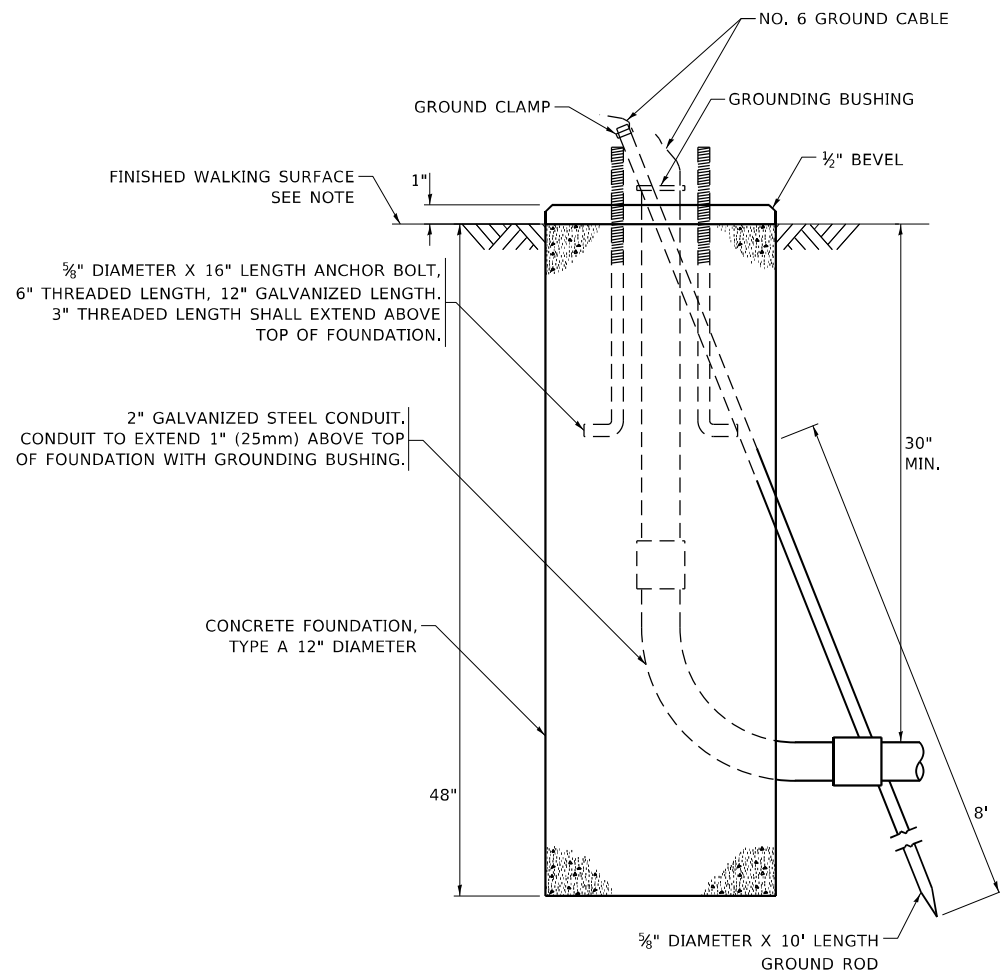
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|-----------------------------|----------------------|--------------------|--------------|-----------|
| F.A. RTE.                   | SECTION              | COUNTY             | TOTAL SHEETS | SHEET NO. |
| VAR                         | 2023 VAR PUSH BUTTON | VARIOUS            | 14           | 12        |
| <b>TS-05</b>                |                      | CONTRACT NO. 62UB8 |              |           |
| ILLINOIS / FED. AID PROJECT |                      |                    |              |           |



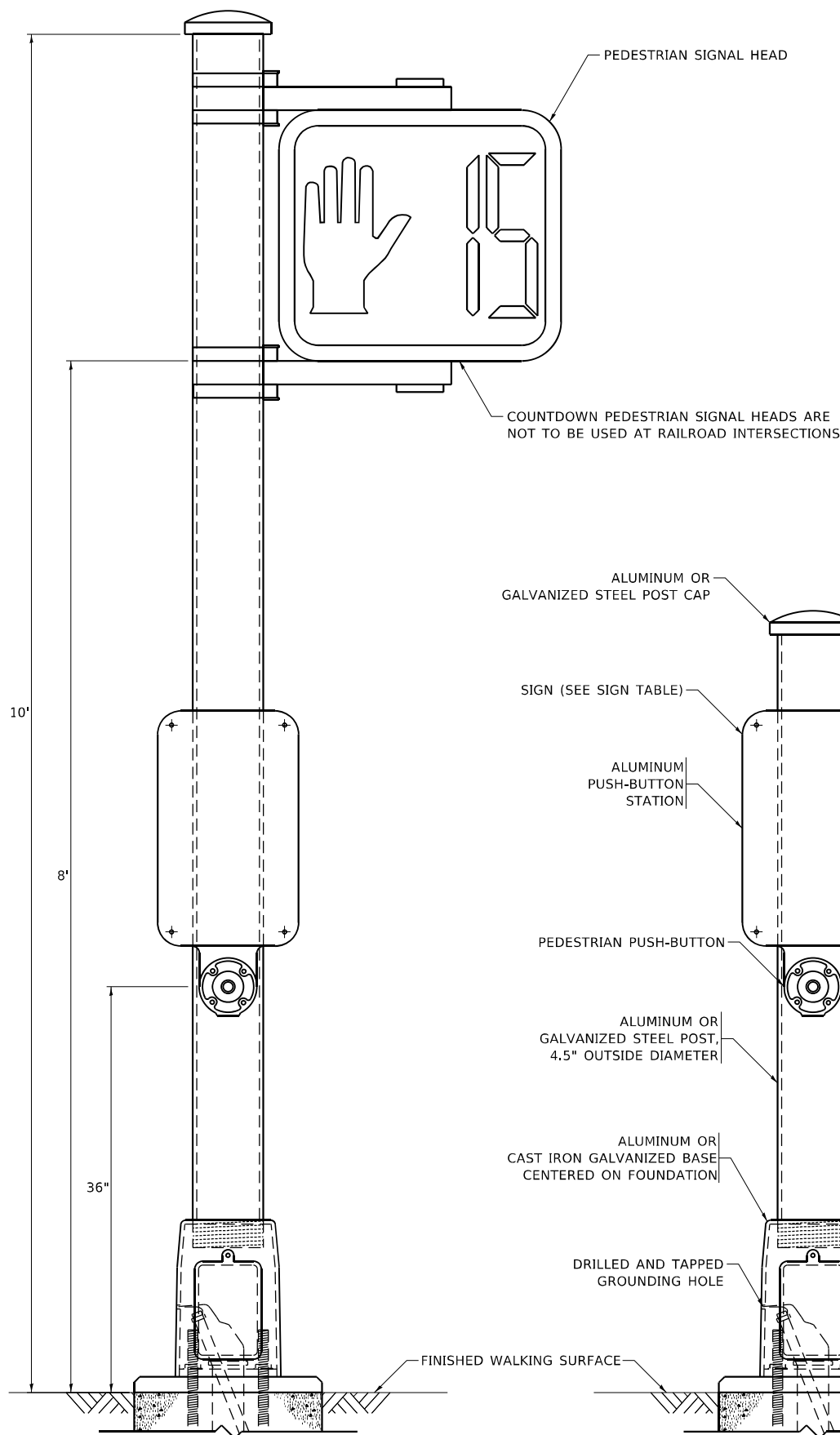
**BOLT PATTERN**

**NOTE:**

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

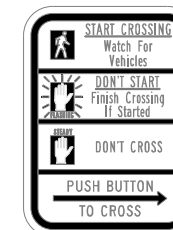


**CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER**

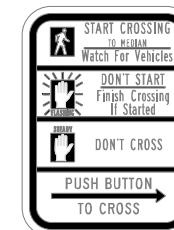


**PEDESTRIAN SIGNAL POST, 10 FT.**

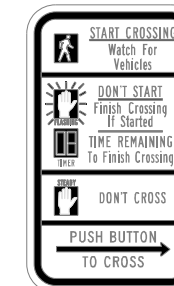
**PEDESTRIAN SIGNAL POST, 5 FT.**



**R10-3b**



**R10-3d**



**R10-3e**

**SIGN TABLE**

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

**NOTES:**

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

MODEL: Default  
FILE NAME: S:\V\Design\Ivan03\_InHouse\_Traffic\et1\_Phase2\2DU86\_APS\62U86.ctb-general.dgn

|                              |                   |                      |
|------------------------------|-------------------|----------------------|
| USER NAME = Ivan.Plascencia  | DESIGNED - IP     | REVISED - 10-15-2020 |
| PLOT SCALE = 100,0000' / in. | DRAWN - IP        | REVISED -            |
| PLOT DATE = 8/24/2023        | CHECKED - LP      | REVISED -            |
|                              | DATE - 10-15-2018 | REVISED -            |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

|                           |                      |                    |              |           |
|---------------------------|----------------------|--------------------|--------------|-----------|
| F.A. RTE.                 | SECTION              | COUNTY             | TOTAL SHEETS | SHEET NO. |
| VAR                       | 2023 VAR PUSH BUTTON | VARIOUS            | 14           | 13        |
| <b>TS-05</b>              |                      | CONTRACT NO. 62U86 |              |           |
| ILLINOIS FED. AID PROJECT |                      |                    |              |           |

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| LOCATION NO. | TS NO. | INTERSECTION NAME  | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION<br>PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER<br>REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT<br>ACCESSIBLE PEDESTRIAN SIGNALS |          |          |          |
|--------------|--------|--|---|----------|----------|----------|
|              |        |  | 85000200  | 88102717 | 89502375 | X8760200 |
| 1            | 21968  | US RTE 20 AT PROSPECT ST   | 1   |          | 1        | 6        |
| 2            | 11880  | IL RTE 176 (STATE RD) AT ROBERTS RD / MIDWAY DR                      | 1   |          | 1        | 2        |
| 3            | 7081   | IL RTE 132 (GRAND AVE) AT MUNN RD                                    | 1   |          | 1        | 8        |
| 4            | 7075   | IL RTE 132 (GRAND AVE) AT GRANADA BLVD / LINDENHURST DR              | 1   |          | 1        | 8        |
| 5            | 7070   | IL RTE 132 (GRAND AVE) AT SAND LAKE RD                               | 1   |          | 1        | 4        |
| 6            | 6670   | US RTE 45 AT MILLBURN RD / GRASS LAKE RD                             | 1   |          | 1        | 8        |
| 7            | 21115  | IL RTE 132 (GRAND AVE) AT SAMS CLUB ENT / WALMART ENT                | 1   |          | 1        | 6        |
| 8            | 7060   | IL RTE 132 (GRAND AVE) AT HUNT CLUB RD                               | 1   |          | 1        | 8        |
| 9            | 14985  | GRAND AVE AT MCAREE RD   | 1   | 8        | 1        | 8        |
| 10           | 15015  | GRAND AVE AT LEWIS AVE   | 1   | 8        | 1        | 8        |
| 11           | 15010  | GRAND AVE AT BUTRICK ST  | 1   | 8        | 1        | 8        |
| 12           | 15005  | GRAND AVE AT JACKSON ST  | 1   | 8        | 1        | 8        |
| 13           | 15000  | GRAND AVE AT WEST ST   | 1   | 8        | 1        | 8        |
| 14           | 14995  | GRAND AVE AT COUNTY ST   | 1   | 8        | 1        | 8        |
| 15           | 14990  | GRAND AVE AT GENESEE ST  | 1   | 8        | 1        | 8        |
| 16           | 15050  | GRAND AVE AT SHERIDAN RD   | 1   |          | 1        | 8        |
| 17           | 7820   | IL RTE 131 (GREEN BAY RD) AT IL RTE 120 (BELVIDERE RD)               | 1   |          | 1        | 8        |
| 18           | 9375   | IL RTE 131 (GREEN BAY RD) AT PULASKI MEMORIAL DR / 14TH ST           | 1   |          | 1        | 8        |
| 19           | 950    | US 12 (RAND RD) AT RAVINIA TERRACE / N OLD RAND RD                   | 1   |          | 1        | 4        |
| 20           | 21845  | COUNTY LINE RD (MAIN ST) AT DUNDEE AVE                               | 1   |          | 1        | 6        |
| 21           | 6895   | IL RTE 60 AT ST MARYS RD   | 1   |          | 1        | 16       |
| 22           | 21405  | US RTE 45 / IL RTE 21 (MILWAUKEE AVE) AT TOWER PKWY / RIVERSIDE RD   | 1   |          | 1        | 2        |
| 23           | 6650   | US RTE 45 / IL RTE 21 (MILWAUKEE AVE) AT DEERFIELD RD                | 1   |          | 1        | 2        |
| 24           | 4696   | US RTE 14 (NORTHWEST HWY) AT METRA ACCESS                            | 1   |          | 1        | 2        |
| 25           | 3105   | IL RTE 68 (DUNDEE RD) AT BARRINGTON RD                               | 1   |          | 1        | 2        |
| 26           | 3108   | IL RTE 68 (DUNDEE RD) AT GROVE AVE                                   | 1   |          | 1        | 2        |
| 27           | 2687   | IL RTE 53-68 (DUNDEE RD) AT PARK PLACE                               | 1   |          | 1        | 6        |
| 28           | 2685   | IL RTE 53-68 (DUNDEE RD) AT BALDWIN LN / BALDWIN RD                  | 1   |          | 1        | 8        |
| 29           | 2660   | IL RTE 53-68 (DUNDEE RD) AT W FRONTAGE RD / KENNEDY DR               | 1   |          | 1        | 2        |
| 30           | 3205   | IL RTE 68 (DUNDEE RD) AT WILKE RD                                    | 1   |          | 1        | 2        |
| 31           | 3130   | IL RTE 68 (DUNDEE RD) AT KENNICOTT AVE                               | 1   |          | 1        | 8        |
| 32           | 3200   | IL RTE 68 (DUNDEE RD) AT WOLF RD                                     | 1   |          | 1        | 8        |
| 33           | 1680   | US RTE 45 (DES PLAINES RIVER RD) AT EUCLID AVE                       | 1   |          | 1        | 4        |
| 34           | 14760  | IL RTE 62 (ALGONQUIN RD) AT PROGRESS PKWY / PLUM GROVE RD            | 1   |          | 1        | 8        |
| 35           | 14755  | IL RTE 62 (ALGONQUIN RD) AT PARKSIDE DR                              | 1   |          | 1        | 4        |
| 36           | 3220   | IL RTE 72 (HIGGINS RD) AT MALL DR                                    | 1   |          | 1        | 4        |
| 37           | 3225   | IL RTE 72 (HIGGINS RD) AT MARTINGALE RD                              | 1   |          | 1        | 6        |
| 38           | 20605  | IL RTE 53 (BIESTERFIELD RD) AT I-290 - IL RTE 53 SB RAMPS            | 1   |          | 1        | 2        |
| 39           | 13150  | IL RTE 53 (ROHLWING RD) AT BIESTERFIELD RD                           | 1   |          | 1        | 8        |
| 40           | 13145  | IL RTE 53 (ROHLWING RD) AT NERGE RD                                  | 1   |          | 1        | 8        |
| 41           | 5715   | IL RTE 53 (ROHLWING RD) AT DEVON AVE                                 | 1   |          | 1        | 4        |
| 42           | 3335   | IL RTE 72 (HIGGINS RD) AT INNOVATION ST / KING ST                    | 1   |          | 1        | 8        |
| 43           | 13140  | IL RTE 72 (HIGGINS RD) AT LIVELY BLVD                                | 1   |          | 1        | 8        |
| 44           | 3275   | IL RTE 72-83 (OAKTON ST) AT IL RTE 72 (HIGGINS RD) EAST              | 1   |          | 1        | 5        |
| 45           | 3318   | ELMHURST RD AT LANDMEIER RD  | 1   |          | 1        | 4        |
| 46           | 3350   | IL RTE 83 (ELMHURST RD) AT IL RTE 83 (OAKTON ST)                     | 1   |          | 1        | 8        |
| 47           | 13022  | IL RTE 58 (GOLF RD) AT MARIANO'S ENTRANCE                            | 1   |          | 1        | 4        |
| 48           | 13083  | US RTE 14 (NORTHWEST HWY) AT BROADWAY                                | 1   |          | 1        | 4        |
| 49           | 9085   | IL RTE 72 (HIGGINS RD) AT DEVON AVE                                  | 1   |          | 1        | 2        |
| 50           | 9087   | IL RTE 72 (HIGGINS RD) AT WINTRUST ACCESS                            | 1   |          | 1        | 8        |
| 51           | 4207   | DES PLAINES RIVER RD AT ROBINSON RD                                  | 1   |          | 1        | 2        |
| 52           | 14290  | IL RTE 58 (DEMPSTER ST) AT LEHIGH AVE                                | 1   | 4        | 1        | 4        |
| 53           | 14310  | IL RTE 58 (DEMPSTER ST) AT MENARD AVE                                | 1   |          | 1        | 8        |
| 54           | 14315  | IL RTE 58 (DEMPSTER ST) AT CENTRAL AVE                               | 1   |          | 1        | 8        |
| 55           | 2735   | IL RTE 58 (DEMPSTER ST) AT BRONX AVE                                 | 1   |          | 1        | 8        |
| 56           | 2820   | IL RTE 58 (DEMPSTER ST) AT NILES CENTER RD & US RTE 41 (SKOKIE BLVD) | 1   |          | 1        | 16       |
| 57           | 5020   | DEMPSTER ST AT EAST PRAIRIE ST                                       | 1   |          | 1        | 8        |
| 58           | 5025   | DEMPSTER ST AT ST LOUIS AVE / LINCOLNWOOD DR                         | 1   |          | 1        | 8        |
| 59           | 5035   | DEMPSTER ST AT MCCORMICK BLVD  | 1   |          | 1        | 8        |
| 60           | 1525   | US RTE 41 (SKOKIE BLVD) AT GOLF RD                                   | 1   |          | 1        | 8        |

|                              |                  |           |
|------------------------------|------------------|-----------|
| USER NAME = Iovan,Plascencia | DESIGNED - IP    | REVISED - |
| DRAWN - IP                   | REVISIONS -      |           |
| PLOT SCALE = 100,0000' / in. | CHECKED - NB     | REVISED - |
| PLOT DATE = 8/24/2023        | DATE - 8/15/2023 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A. RTE. | SECTION              | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|-----------|----------------------|----------|--------------------|-----------|
| VAR       | 2023 VAR PUSH BUTTON | VARIOUS  | 14                 | 14        |
|           |                      |          | CONTRACT NO. 62U86 |           |
|           |                      | ILLINOIS | FED. AID PROJECT   |           |