FOR INDEX OF SHEETS AND LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

SCHAUMBURG,

AQUEEL,

FAWAD

ENGINEER:

PROGRAM

AID

FEDERAL

03-06-2015 LETTING ITEM 169

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FOREST AVENUE FAU 3727 (DEMPSTER STREET) TO BURNHAM PLACE **FAU 2865 (SHERIDAN ROAD) AT MAIN STREET** TRAFFIC SIGNAL IMPROVEMENTS

SECTION 13-00271-00-TL PROJECT NO. M-4003(238) CITY OF EVANSTON **COOK COUNTY** C-91-066-14

PROJECT BEGINS FOREST AVENUE AT DEMPSTER STREET 3RD PM **R13E** PROJECT ENDS FOREST AVENUE AT BURNHAM PLACE PROJECT LOCATION SHERIDAN ROAD AT MAIN STREET Monroe St

South Blvd

NILES TOWNSHIP PROJECT LENGTH

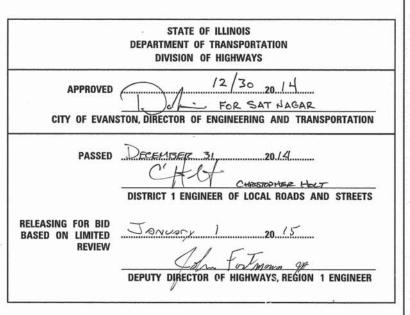
GROSS = 0.72 MILE /3,800 FEET

NET = 0.36 MILE /1,900 FEET

Kirk St

13-00271-00-TL

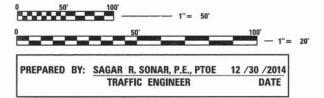
COOK 24 1 ILLINOIS CONTRACT NO. 61A81



LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOREST AVENUE / SHERIDAN ROAD **FUNCTIONAL CLASSIFICATION: ARTERIAL** ADT: 22,500 (2010) **DESIGN SPEED: 30 MPH**



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

CONTRACT NO. 61A81



Phone 773.693.9624 Fax 773.693.7690 Illinois Firm Registration No.: 184-001533





INDEX OF SHEETS

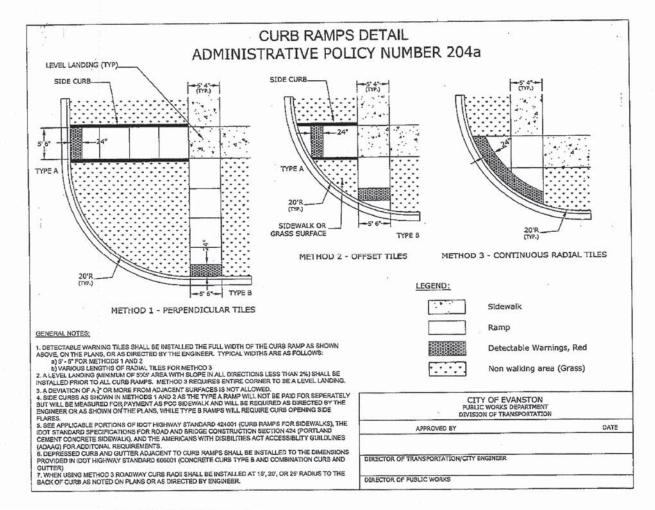
- TITLE SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN - SHERIDAN ROAD AND MAIN STREET
- 5 TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM SHERIDAN ROAD AND MAIN STREET
- 6 TRAFFIC SIGNAL MODERNIZATION PLAN SHERIDAN ROAD AND
- 7 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE - SHERIDAN ROAD AND MAIN STREET
- TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN - FOREST AVENUE AND BURNHAM PLACE
- 9 TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM FOREST AVENUE AND BURNHAM PLACE
- 10 TRAFFIC SIGNAL MODERNIZATION PLAN -FOREST AVENUE AND BURNHAM PLACE
- 11 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE FOREST AVENUE AND BURNHAM PLACE
- 12 TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN - FOREST AVENUE AND DEMPSTER STREET
- TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM FOREST AVENUE AND DEMPSTER STREET
- 14 TRAFFIC SIGNAL MODERNIZATION PLAN -FOREST AVENUE AND DEMPSTER STREET
- 15 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE FOREST AVENUE AND DEMPSTER STREET
- 16-22 DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS
- 23 DISTRICT 1 STANDARD TYPICAL PAVEMENT MARKINGS
- 24 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROAD, INTERSECTIONS, AND DRIVEWAYS

HIGHWAY STANDARDS

| STD NO. | DESCRIPTION |
|-----------|--|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001006 | DECIMAL OF AN INCH AND A FOOT |
| 424001-08 | PERPENDICULAR CURB RAMPS FOR SIDEWALKS |
| 424021-03 | DEPRESSED CORNER FOR SIDEWALKS |
| 606001-06 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701011-04 | OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701501-06 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED |
| 701701-09 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701801-05 | SIDEWALK, CORNER OR CROSSWALK CLOSURE |
| 701901-04 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 814001-03 | HANDHOLES |
| 814006-02 | DOUBLE HANDHOLES |
| 857001-01 | STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES |
| 862001-01 | UNINTERRUPTABLE POWER SUPPLY (UPS) |
| 873001-02 | TRAFFIC SIGNAL GROUNDING & BONDING |
| 878001-10 | CONCRETE FOUNDATION DETAILS |
| 880001-01 | SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION |
| 880006-01 | TRAFFIC SIGNAL MOUNTING DETAILS |
| 886001-01 | DETECTOR LOOP INSTALLATIONS |

GENERAL NOTES:

- THE CONTRACTOR SHALL CONTACT JULIE AT (800) 892-0123 FOR FIELD LOCATION OF UTILITIES
- 2. THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS ACCORDING TO INFORMATION OBTAINED FROM UTILITY COMPANIES AND SURVEYS. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD CHECK AND VERIFY ALL EXISTING UTILITY LOCATIONS, DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF THE IMPROVEMENTS OR PROPOSED WORK. THE CONTRACTOR SHALL REPORT TO THE ENGINEER ANY OMISSIONS OR DISCREPENCIES FROM THE LOCATIONS SHOWN ON THE DRAWINGS.
- 3. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER (847-866-2967) AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. THE STORAGE OF EQUIPMENT OR MATERIALS WITHIN THE PARKWAYS SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL CONTACT THE CITY OF EVANSTON PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO ANY WORK IN ORDER TO OBTAIN CITY UTILITY LOCATIONS.
- THE ENGINEER SHALL FIELD REVIEW AND APPROVE LOCATION OF SIGNAL POSTS AND CONTROLLERS AS COORDINATED WITH THE CITY OF EVANSTON.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE TO THE CITY. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT TREES AND NOT CAUSE ANY DAMAGE TO THEM.
- THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE EXISTING ROADWAY ACCORDING TO ARTICLE 107.15 OF THE IDOT STANDARD SPECIFICATIONS.
- 7. ASPHALT SURFACE ADJACENT TO CURB REMOVAL AND REPLACEMENT SHALL BE COLD MILLED TO A DEPTH OF 2"
 AND A WIDTH OF ONE (1) TO FOUR (4) FEET FROM THE EDGE OF PAVEMENT IN ORDER TO PROVIDE A SMOOTH
 TRANSITION FROM THE PROPOSED CURB AND GUTTER TO THE EXISTING PAVEMENT SURFACE AND NOT TO
 EXCEED A 5% CROSS SLOPE. COST OF HMA SURFACE REMOVAL AND REPLACEMENT SHALL BE INCLUDED
 IN THE COST OF THE COMBINATION CURB AND GUTTER, TYPE B-6.12.
- 8. WHERE SIDEWALK IS TO BE REMOVED, TEMPORARY HMA SIDEWALK SHALL BE PLACED WHEN PERMANENT PCC SIDEWALK WILL NOT BE INSTALLED AT THE END OF THE DAY. ALL COSTS ASSOCIATED WITH TEMPORARY HMA SIDEWALK PLACEMENT AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED SIDEWALK.



Stanley Consultants INC.

| FILE NAME = | USER NAME = 8879 | DESIGNED - THG | REVISED - |
|---------------------|----------------------------|-------------------|-----------|
| 02_D23301-sht-index | | DRAWN - THG | REVISED - |
| | PLOT SCALE = 1.0000 '/ in. | CHECKED - SRS | REVISED - |
| | PLOT DATE = 12/29/2014 | DATE - 08/22/2014 | REVISED - |

SUMMARY OF QUANTITIES

S.I. S.P. CODE

NUMBER

81400100 HANDHOLE

81400200 HEAVY-DUTY HANDHOLE

Δ 85700200 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET

86200200 UNINTERRUPTABLE POWER SUPPLY, STANDARD

87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C

87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C

87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C

87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C

87301805 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C

87301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR

87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C

81400300 DOUBLE HANDHOLE

Δ 87500600 TRAFFIC SIGNAL POST, 10 FT.

Δ 87501000 TRAFFIC SIGNAL POST, 14 FT.

Δ 87501100 TRAFFIC SIGNAL POST, 15 FT.

Δ 87501400 TRAFFIC SIGNAL POST, 18 FT.

87800100 CONCRETE FOUNDATION, TYPE A

87800150 CONCRETE FOUNDATION, TYPE C

88500100 INDUCTIVE LOOP DETECTOR

89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION

89502385 REMOVE EXISTING CONCRETE FOUNDATION

Δ X8730250 ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

89502380 REMOVE EXISTING HANDHOLE

Δ Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING

89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

88600100 DETECTOR LOOP, TYPE I

Δ 88800100 PEDESTRIAN PUSH-BUTTON

Δ Z0013798 CONSTRUCTION LAYOUT

∆ 88700200 LIGHT DETECTOR

88030050 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED

Δ 88030240 SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED

Δ 88102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

Δ 88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED

Δ 88030210 SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED

ITEM

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TOTAL QUANTITY

0004 0021

13

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2,170

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1,690

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23

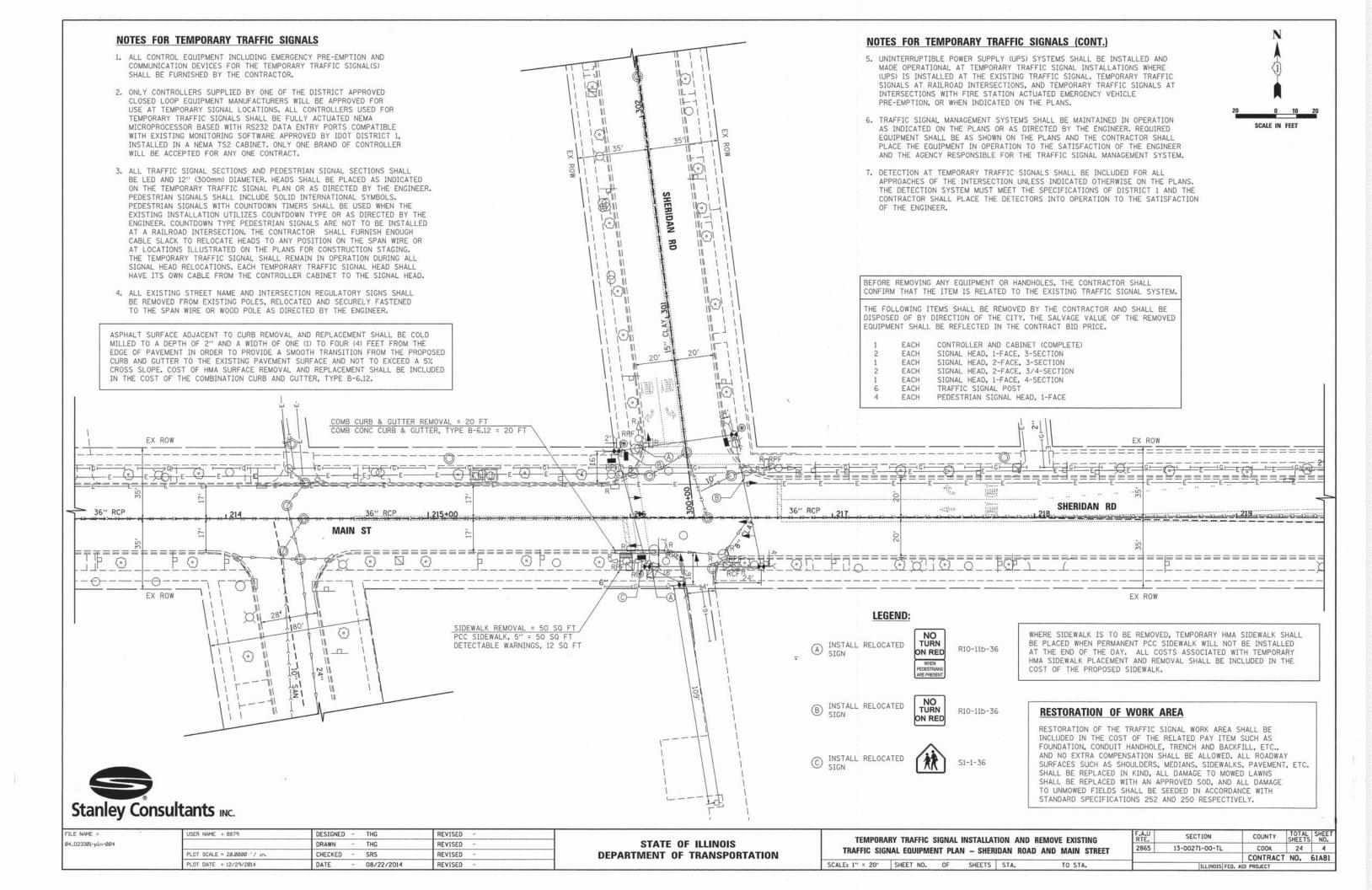
| S.I. | S.P. | CODE | ITEM | UNIT | TOTAL O | UANTITY |
|------|------|----------|--|--------|---------|---------|
| | | NUMBER | | | 0004 | 0021 |
| | | 20101100 | TREE TRUNK PROTECTION | EACH | 33 | |
| | | 20101200 | TREE ROOT PRUNING | EACH | 6 | - |
| | | 20101300 | TREE PRUNING (1 TO 10 INCH DIAMETER) | EACH | 6 | |
| • | | 20101350 | TREE PRUNING (OVER 10 INCH DIAMETER) | EACH | 6 | |
| | | 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 6 | |
| | | 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | SQ FT | 50 | |
| + | Δ | 42400800 | DETECTABLE WARNINGS | SQFT | 12 | |
| - | | 44000500 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 20 | |
| 1 | | | | | | |
| 1 | | 44000600 | SIDEWALK REMOVAL | SQ FT | 50 | |
| - | | 60603800 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 | FOOT | 20 | |
| 1 | | 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 3 | |
| | | 67100100 | MOBILIZATION | L SUM | 1 | |
| + | _ | 70102620 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 | L SUM | 1 | |
| 4 | | 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 | |
| | | | | | | |
| + | | 70102640 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 | L SUM | 1 | |
| 4 | | 72000100 | SIGN PANEL - TYPE 1 | SQ FT | 66 | |
| | ., | 72400100 | REMOVE SIGN PANEL ASSEMBLY - TYPE A | EACH | 16 | |
| | | 72400310 | REMOVE SIGN PANEL - TYPE 1 | SQ FT | 156 | |
| - | | 72400500 | RELOCATE SIGN PANEL ASSEMBLY - TYPE A | EACH | 12 | |
| | | | RELOCATE SIGN PANEL - TYPE 1 | SQ FT | 90 | |
| | | 72400710 | RELOCATE SIGN PANEL - TIPE I | SQFI | | |
| + | | 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQFT | 109 | |
| | | 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4* | FOOT | 2,020 | |
| | | 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6* | FOOT | 471 | |
| | | 78000500 | THE:RMOPLASTIC PAVEMENT MARKING - LINE 8" | FOOT | 167 | |
| | | 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12* | FOOT | 262 | |
| | | | | | | |
| | | 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 169 | |
| - | | 78300100 | PAVEMENT MARKING REMOVAL | SQ FT | 1,378 | |
| 1 | | 80500020 | SERVICE INSTALLATION - POLE MOUNTED | EACH | | 2 |
| | | 81028200 | UN DERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | | 1,304 |
| - | | 81028210 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. | FOOT | | 470 |
| 4 | | 81028220 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | | 252 |
| | | | | | | |
| | | 81028230 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA. | FOOT | | 121 |
| | | 81028250 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA. | FOOT | | 280 |

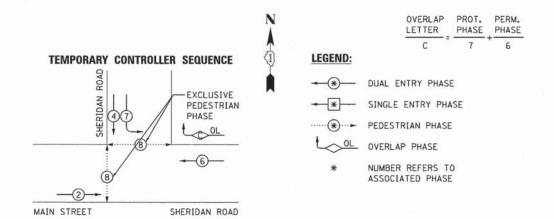
S.I. - SPECIALTY ITEM (*)

S.P. - SPECIAL PROVISION (A)



| FILE NAME = | USER NAME = 8879 | DESIGNED - THG | REVISED - | | SUMMARY OF QUANTITIES | | | | | F.A.U | SECTION | COUNTY | TOTAL | SHEET | |
|--|--|----------------|-----------|------------------------------|-----------------------|----|----------|----------|----------|-------|--------------|----------------|---------|-------|-------|
| 03_D23301-sht-sumoq | | DRAWN - THG | REVISED - | STATE OF ILLINOIS | | 3 | OIVIIVIA | ii oi ut | MINITIES | | 2865 | 13-00271-00-TL | COOK | 24 | 3 |
| The second secon | PLOT SCALE = 1.0000 ' / in. | CHECKED - SRS | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | | | 2005 | 15 00211 00 12 | CONTRAC | T NO. | 61A81 |
| | PLOT DATE = 12/29/2014 DATE - 08/22/2014 | REVISED - | | SCALE: N.T.S | SHEET NO. | OF | SHEETS | STA. | TO STA. | | ILLINOIS FED | . AID PROJECT | | OIAUI | |





TEMPORARY PHASE DESIGNATION DIAGRAM

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | | | | |
|--|--------------|-------------------|--------|-----------|---------|--|--|--|
| TYPE | NO. OF LAMPS | WATTA XINCAND. | CT- 1. | OPERATION | WATTAGE | | | |
| SIGNAL (RED) | 9 | | 17 | 0.50 | 76.50 | | | |
| (YELLOW) | 9 | | 25 | 0.25 | 56.25 | | | |
| (GREEN) | 9 | | 15 | 0.25 | 33.75 | | | |
| ARROW | 4 | | 12 | 0.10 | 4.80 | | | |
| PED. SIGNAL | 4 | | 25 | 1.00 | 100.00 | | | |
| CONTROLLER | 1 | | 100 | 1.00 | 100.00 | | | |
| ILLUM, SIGN | - | | 25 | 0.05 | | | | |
| VIDEO SYSTEM | - | 150 | - | 1.00 | - | | | |
| FLASHER | | | | 0.50 | | | | |
| ENERGY COSTS T | 0: | | | TOTAL = | 371.30 | | | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY: CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COMED

- x > 0 t t 2 × 0 1 1 - x > 0 MAIN STREET o ≺ z – SHERIDAN ROAD G ≺ Z C k B O 4

ROAD

SHERIDAN

C k

TEMPORARY CABLE PLAN

RESTORATION OF WORK AREA

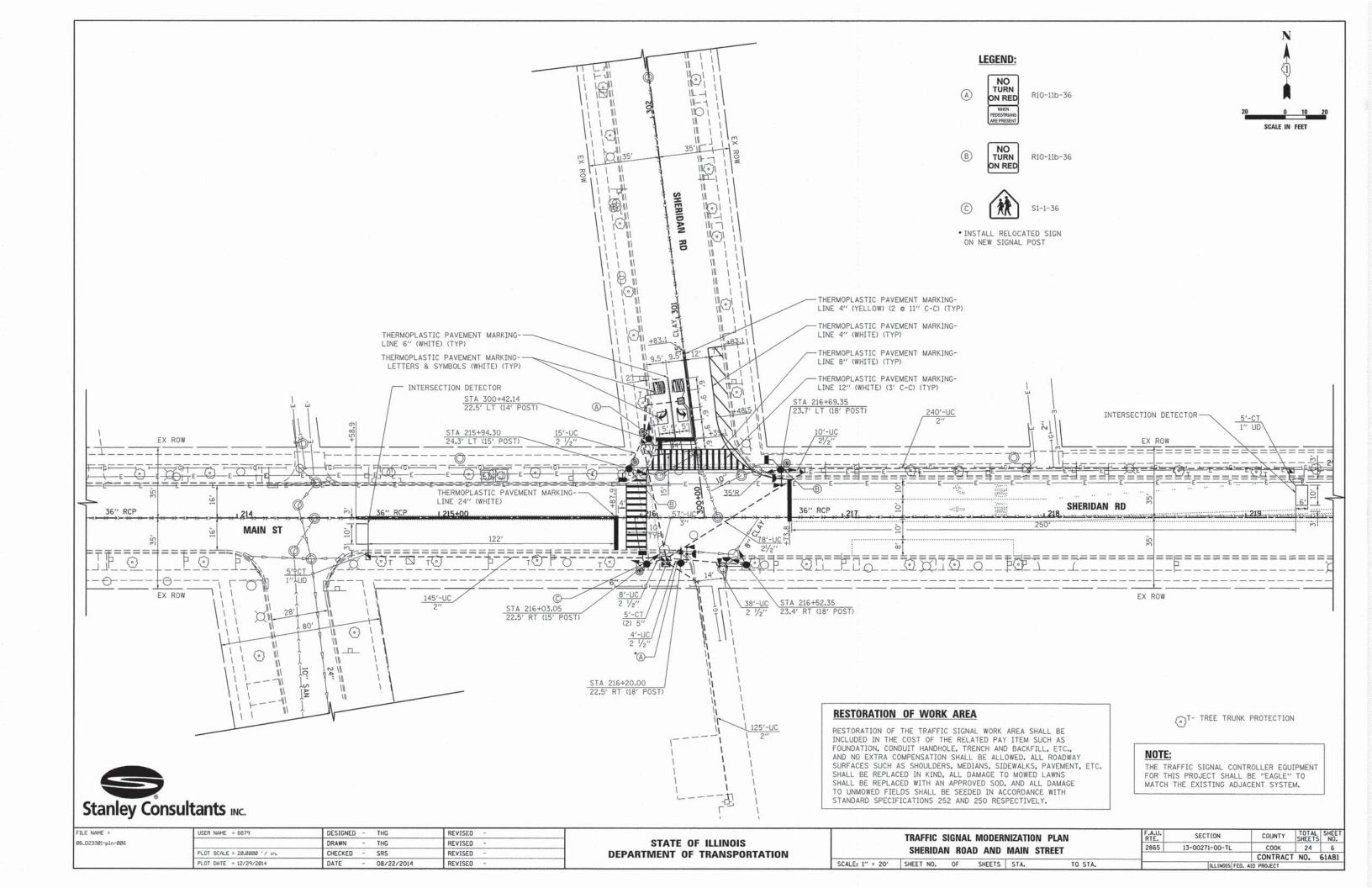
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN 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.

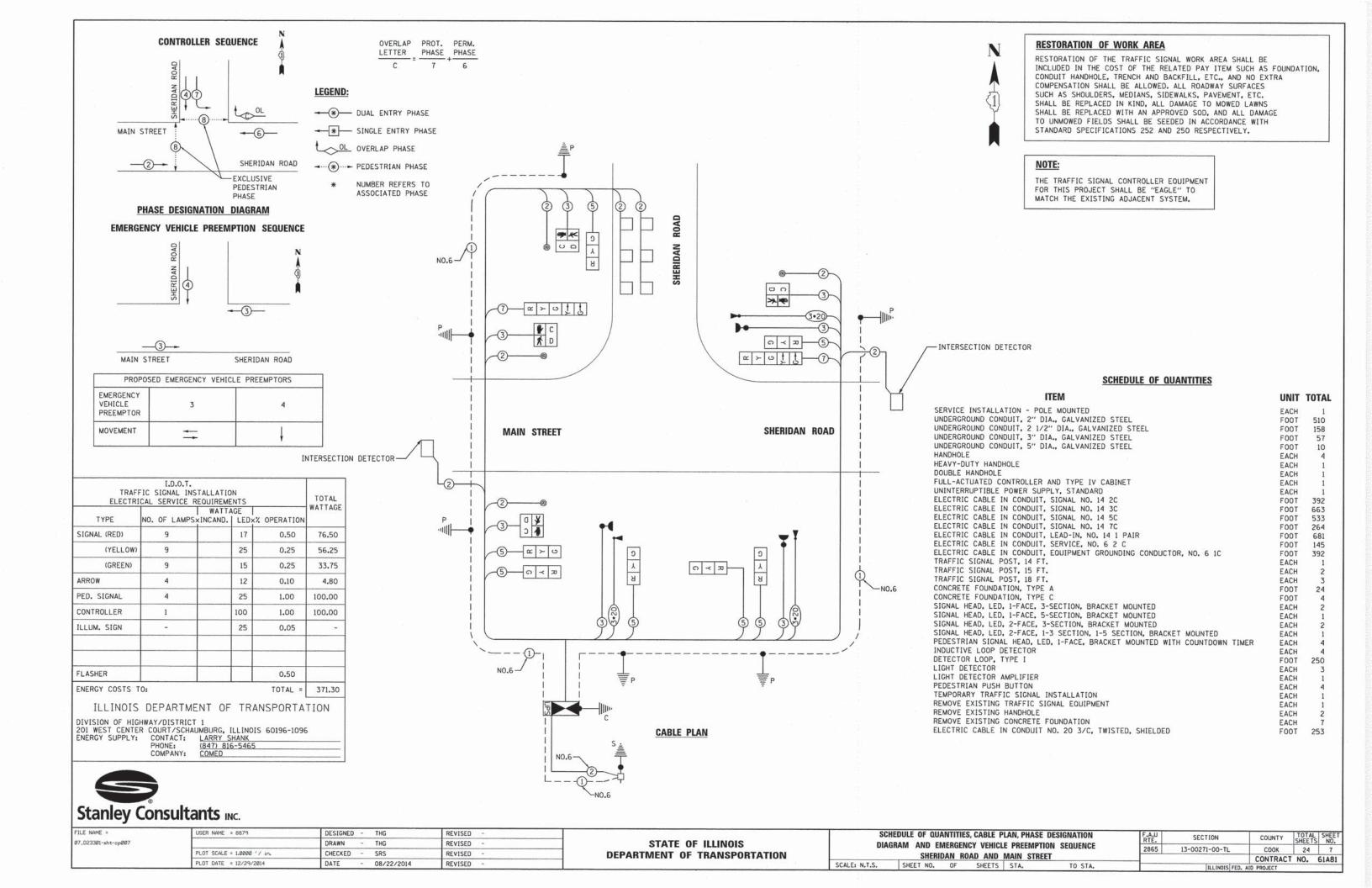
Stanley Consultants INC.

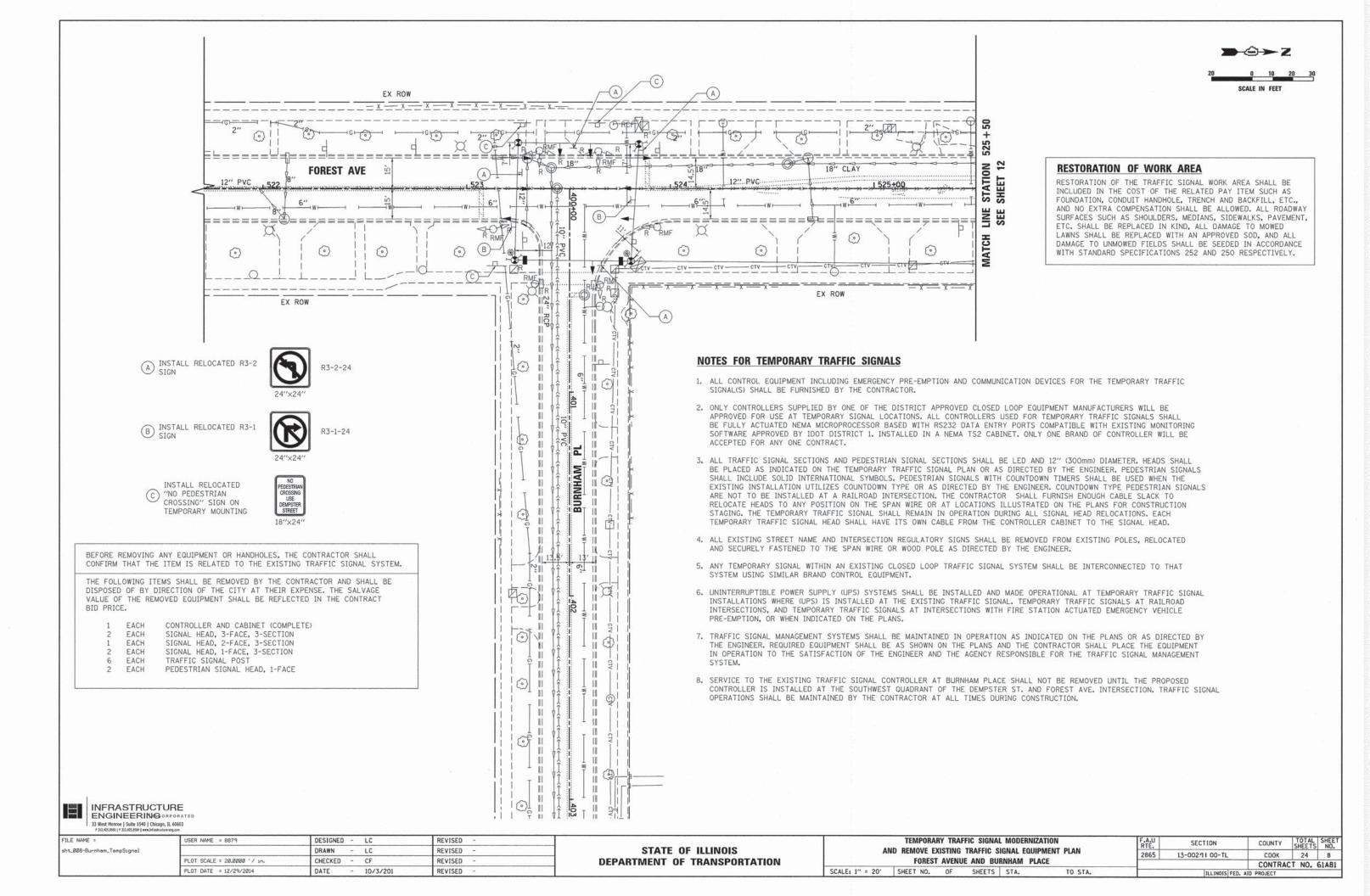
| FILE NAME = | USER NAME = 8879 | DESIGNED - THG | REVISED - | |
|---------------------|-----------------------------|-------------------|-----------|--|
| Ø5_D233Ø1-sht-cp005 | | DRAWN - THG | REVISED - | |
| | PLOT SCALE = 1.00000 '/ in. | CHECKED - SRS | REVISED - | |
| Default | PLOT DATE = 12/29/2014 | DATE - 08/22/2014 | REVISED - | |

| STATI | E 01 | FILLINOIS |
|------------|------|----------------|
| DEPARTMENT | OF | TRANSPORTATION |

| TEMPORAL | Y CABLE | PLAN AND | TEMPO | RARY PHAS | E DESIGNATION | F.A.U RTE. | SECTION | COUNTY | TOTAL | SHEET NO. |
|---------------|--------------|----------|--------|-----------|---------------|---------------|----------------|-------------|-------|--------------|
| DIA | AGRAM - | SHERIDAN | ROAD | AND MAIN | STREET | 2865 | 13-00271-00-TL | СООК | 24 | 5 |
| 1 075 | CHECKSTON IN | OHEHIDAR | IIOAD | AND MAIN | OTHEL | | | CONTRACT | NO. | 61A81 |
| SCALE: N.T.S. | SHEET | OF S | SHEETS | STA. | TO STA. | | ILLINOIS FED. | AID PROJECT | | |







CONTROLLER SEQUENCE **→**⊕ **>** Z -- PHASE DOES NOT STOP FOREST AVE LEGEND:

5- C > 5

FOREST AVE

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(5)

* DUAL ENTRY PHASE * SINGLE ENTRY PHASE OL OVERLAP →···* PEDESTRIAN PHASE NUMBER REFERS TO

ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | | | |
|--|--------------|-------|-----|-----------|---------|--|--|
| TYPE | NO. OF LAMPS | WATTA | | OPERATION | WATTAGE | | |
| SIGNAL (RED) | 9 | | 17 | 0.50 | 76.50 | | |
| (YELLOW) | 6 | | 25 | 0.25 | 37.50 | | |
| (GREEN) | 0 | | 15 | 0.25 | 0.00 | | |
| ARROW | 12 | | 12 | 0.33 | 47.52 | | |
| PED. SIGNAL | 2 | | 25 | 1.00 | 50.00 | | |
| CONTROLLER | 1 | | 100 | 1.00 | 100.00 | | |
| ILLUM. SIGN | - | | 25 | 0.05 | 0.00 | | |
| FLASHER | | | | 0,50 | | | |
| ENERGY COSTS T | ·0: | | | TOTAL = | 311.52 | | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

USER NAME = 8879

PLOT SCALE = 1.0000 '/ in.

PLOT DATE = 12/29/2014

DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY: CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COMED

FILE NAME =

sht_009-Burnham_TempCable

DESIGNED - LC

- LC

- CF

- 10/3/201

DRAWN

DATE

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| 動物 | INFRASTRUCTURE ENGINEERING ORFORATED |
|----|---|
| | 33 West Monroe Suite 1540 Chicago, IL 60603 p 312.425.9560 F 312.425.9564 www.infrastructure-eng.com |

| INFRASTRUCTURE ENGINEERINGORPORATED |
|--|
| 33 West Monroe Suite 1540 Chicago, IL 60603 P 312-435-8560 P 312-435-9564 www.lintelructure-esq.com |

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| STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TEMPORARY | | | TEMPORA | | DESIGNATION PLACE | DIAGRAM |
|--|------------|----------|----|---------|-----|-------------------|---------|
| | SCALE, NTS | CHEET NO | OF | CHEETE | CTA | TO CT | |

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TEMPORARY CABLE PLAN

| AND TEMPORARY PHASE DESIGNATION DIAGRAM | | F.A.U RTE. | SECTION | COUNTY | TOTAL | SHEET NO. | | |
|---|--------|---------------|----------------|--------|----------------|--------------|--|--|
| | | 2865 | 13-00211-00-TL | соок | 24 | 9 | | |
| THE PARTY DOMINION 1 DIGE | | | | | CONTRACT NO. 6 | | | |
| F | SHEETS | STA | TO STA | | THE TWOLE SEA | IIO DDA IZAK | | |

TO DEMPSTER ST (SEE CABLE PLAN SHEET 13)

RESTORATION OF WORK AREA

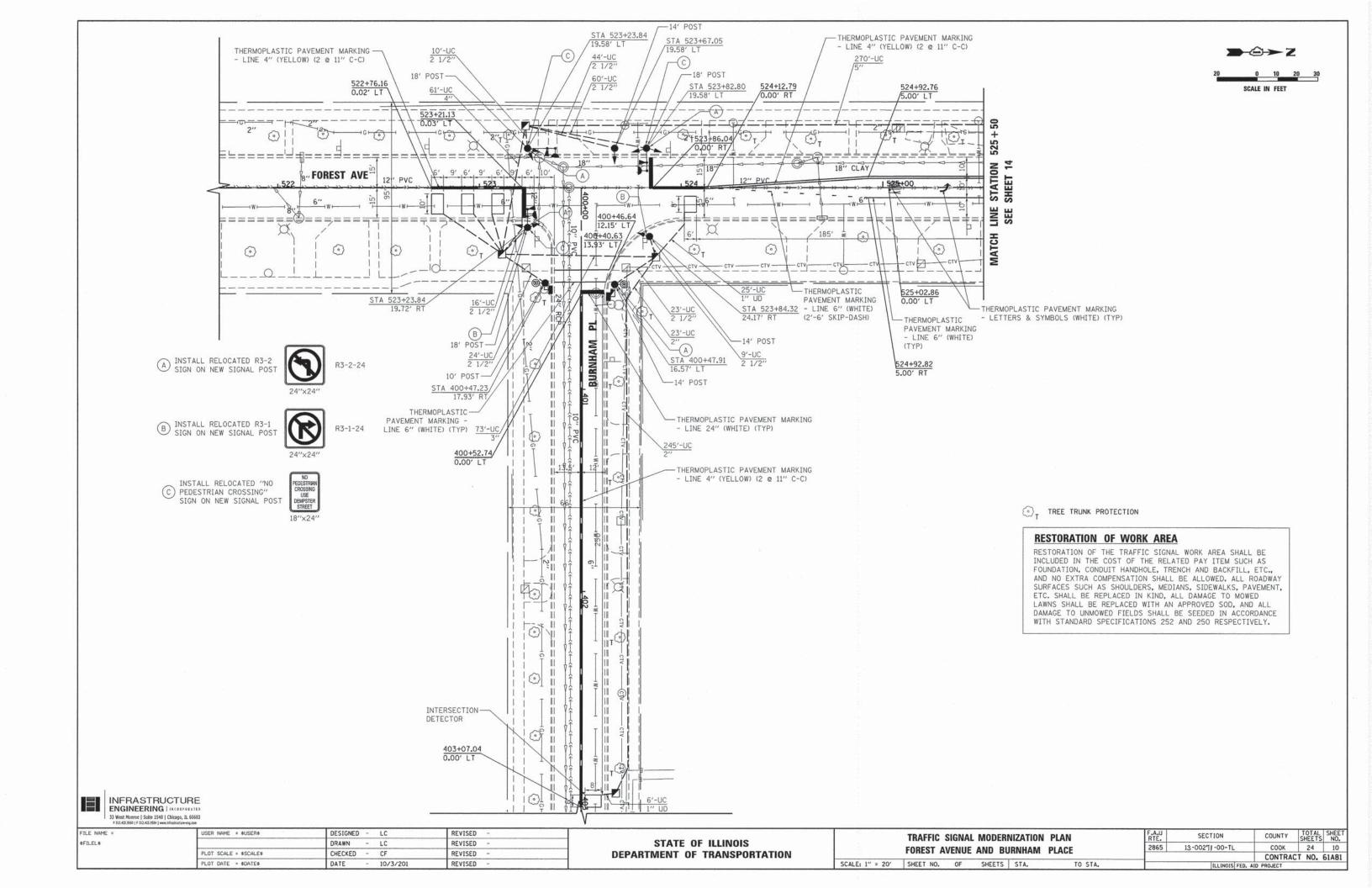
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEM SUCH AS

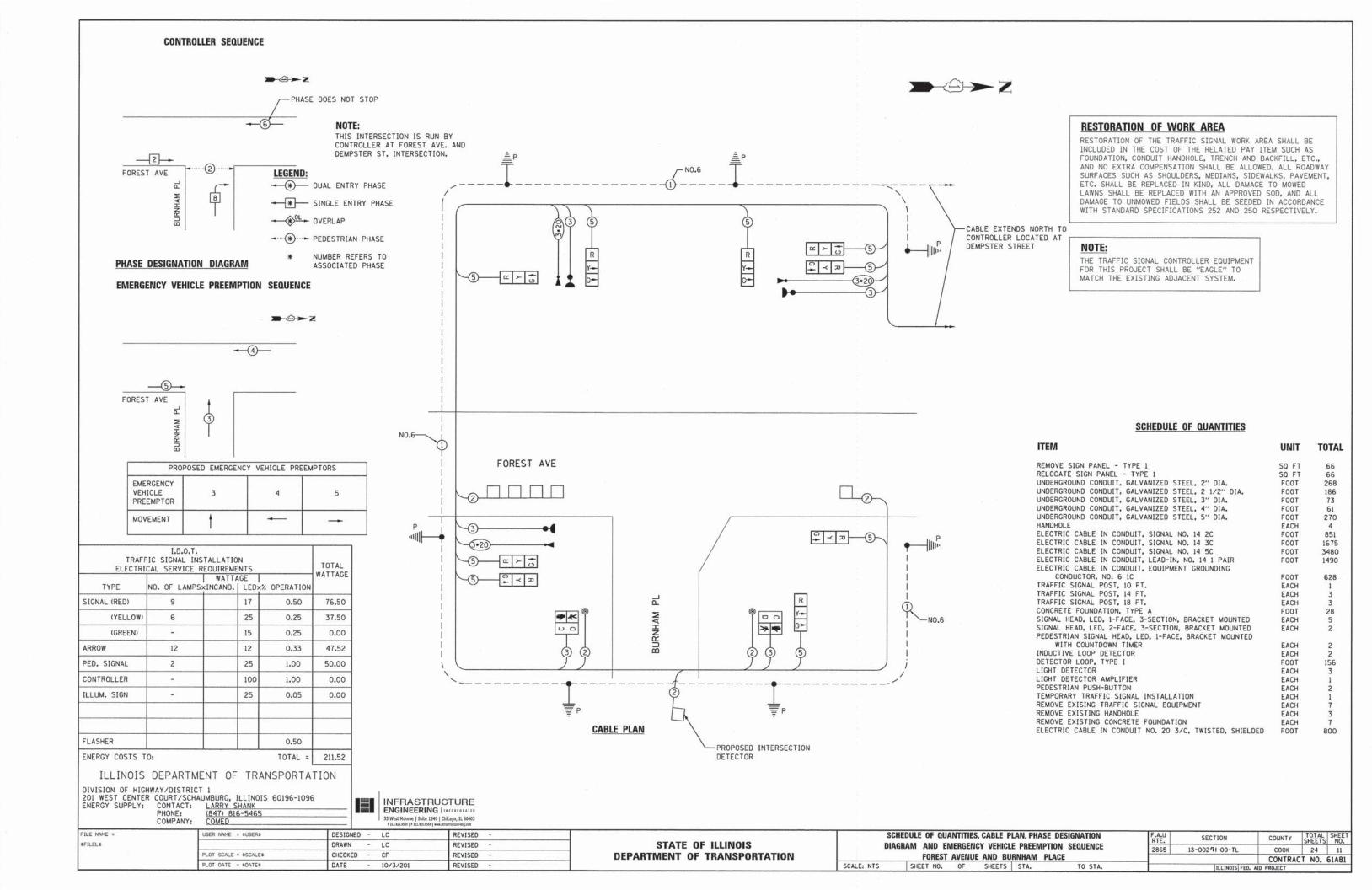
FOUNDATION, CONDUIT HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY

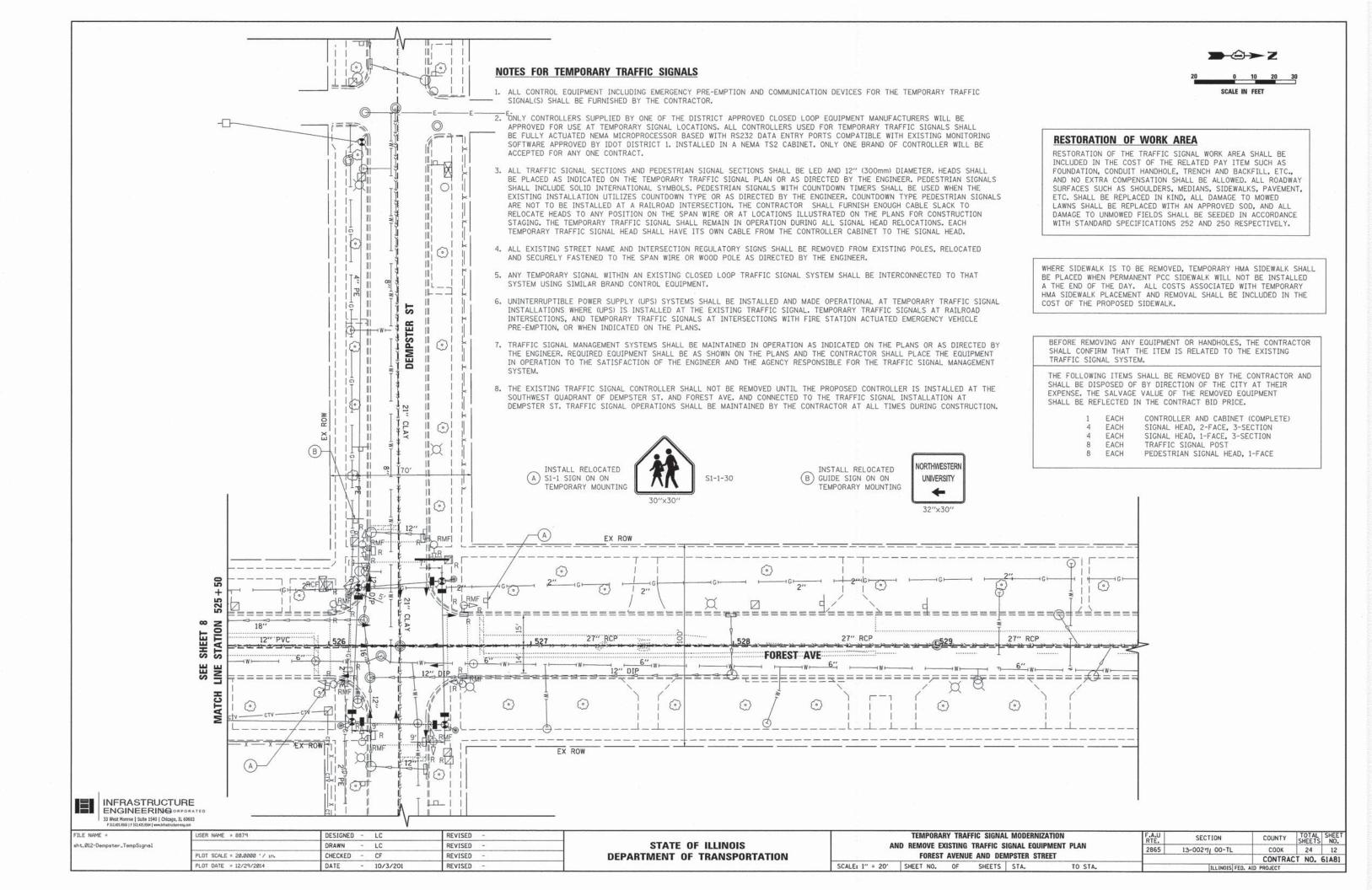
SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND, ALL DAMAGE TO MOWED

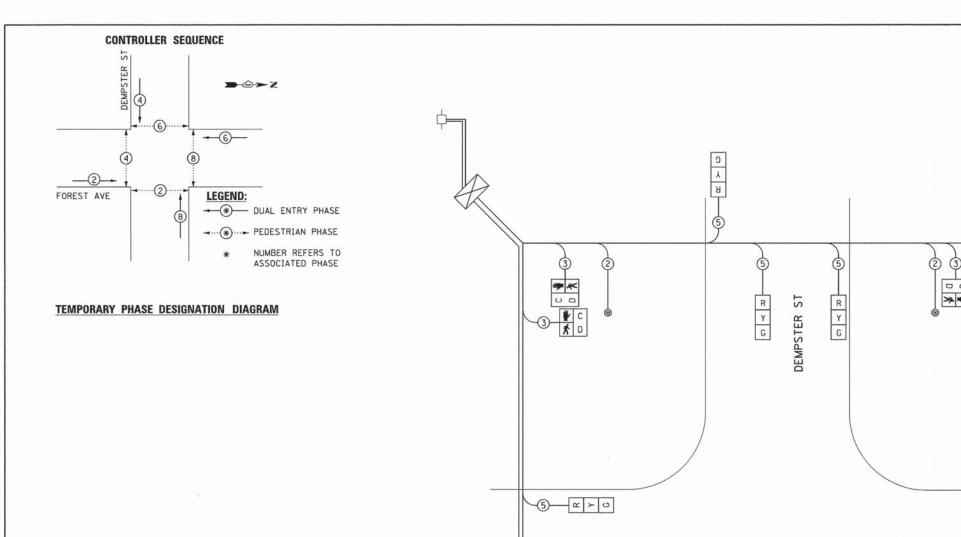
LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE

WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.









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| | I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS | | | | | | |
|----------------|--|-----|-----------|---------|--|--|--|
| TYPE | NO. OF LAMPS×INCAND. | | OPERATION | WATTAGE | | | |
| SIGNAL (RED) | 12 | 17 | 0.50 | 102.00 | | | |
| (YELLOW) | 12 | 25 | 0.25 | 75.00 | | | |
| (GREEN) | 12 | 15 | 0.25 | 45.00 | | | |
| ARROW | - | 12 | 0.10 | | | | |
| PED. SIGNAL | 8 | 25 | 1.00 | 200.00 | | | |
| CONTROLLER | 1 | 100 | 1.00 | 100.00 | | | |
| ILLUM. SIGN | - | 25 | 0.05 | | | | |
| FLASHER | | | 0.50 | | | | |
| ENERGY COSTS T | 0: | | TOTAL = | 522.00 | | | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

FILE NAME =

sht_013-Dempster_TempCable

DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY: CONTACT: LARRY SHANK
PHONE: (847) 816-5465
COMPANY: COMED

INFRASTRUCTURE ENGINEERING ORPORATED

TO BURNHAM PL

(SEE CABLE PLANS SHEET 9)

USER NAME = 8879 DESIGNED - LC REVISED DRAWN - LC REVISED PLOT SCALE = 1.0000 '/ in. CHECKED - CF REVISED PLOT DATE = 12/29/2014 DATE - 10/3/201 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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TEMPORARY CABLE PLAN

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COUNTY SHEETS NO.

COOK 24 13 SECTION TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM 13-00271-00-TL 2865 FOREST AVENUE AND DEMPSTER STREET CONTRACT NO. 61A81 SCALE: NTS SHEET NO. OF SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT

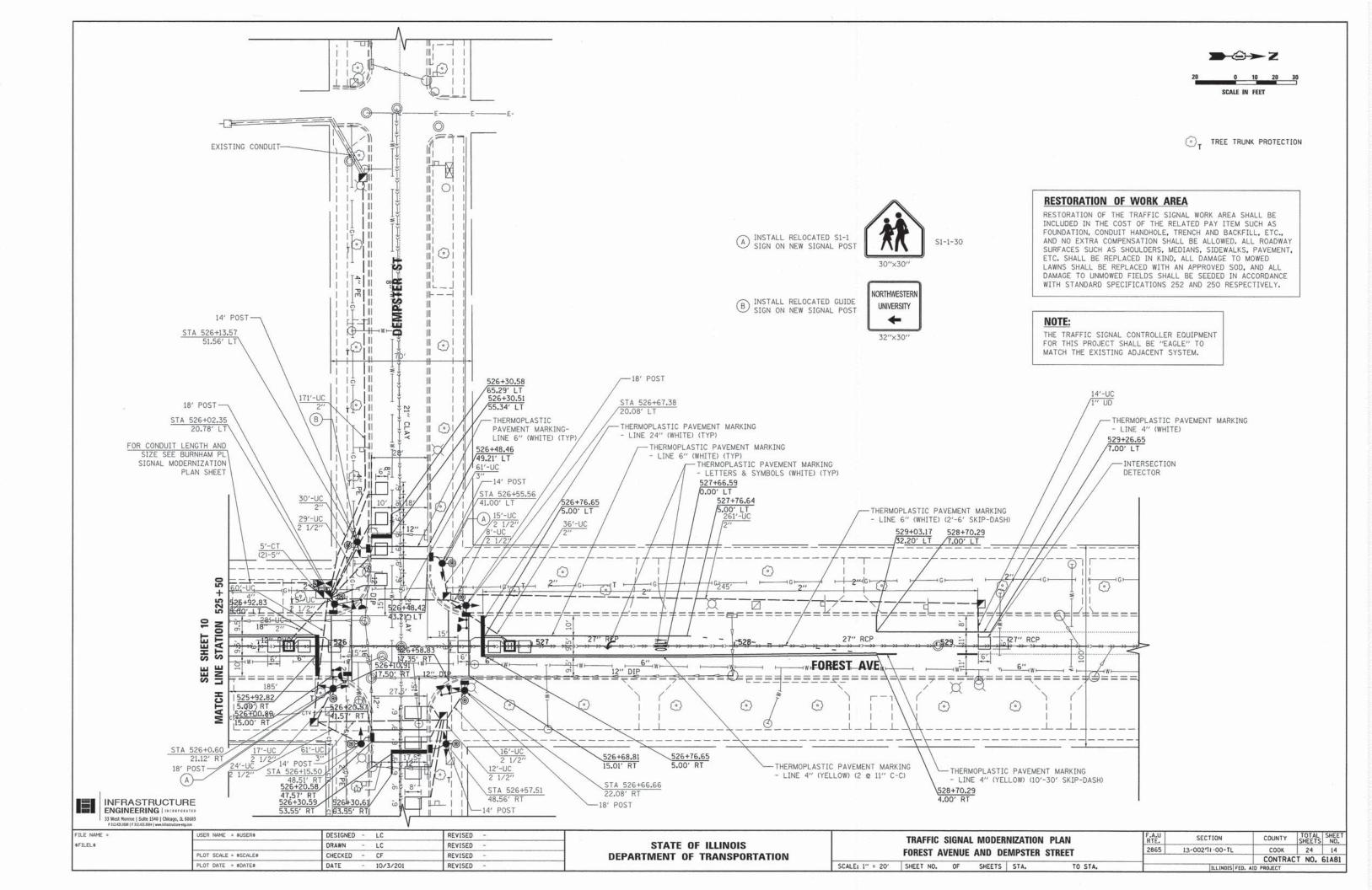
RESTORATION OF WORK AREA

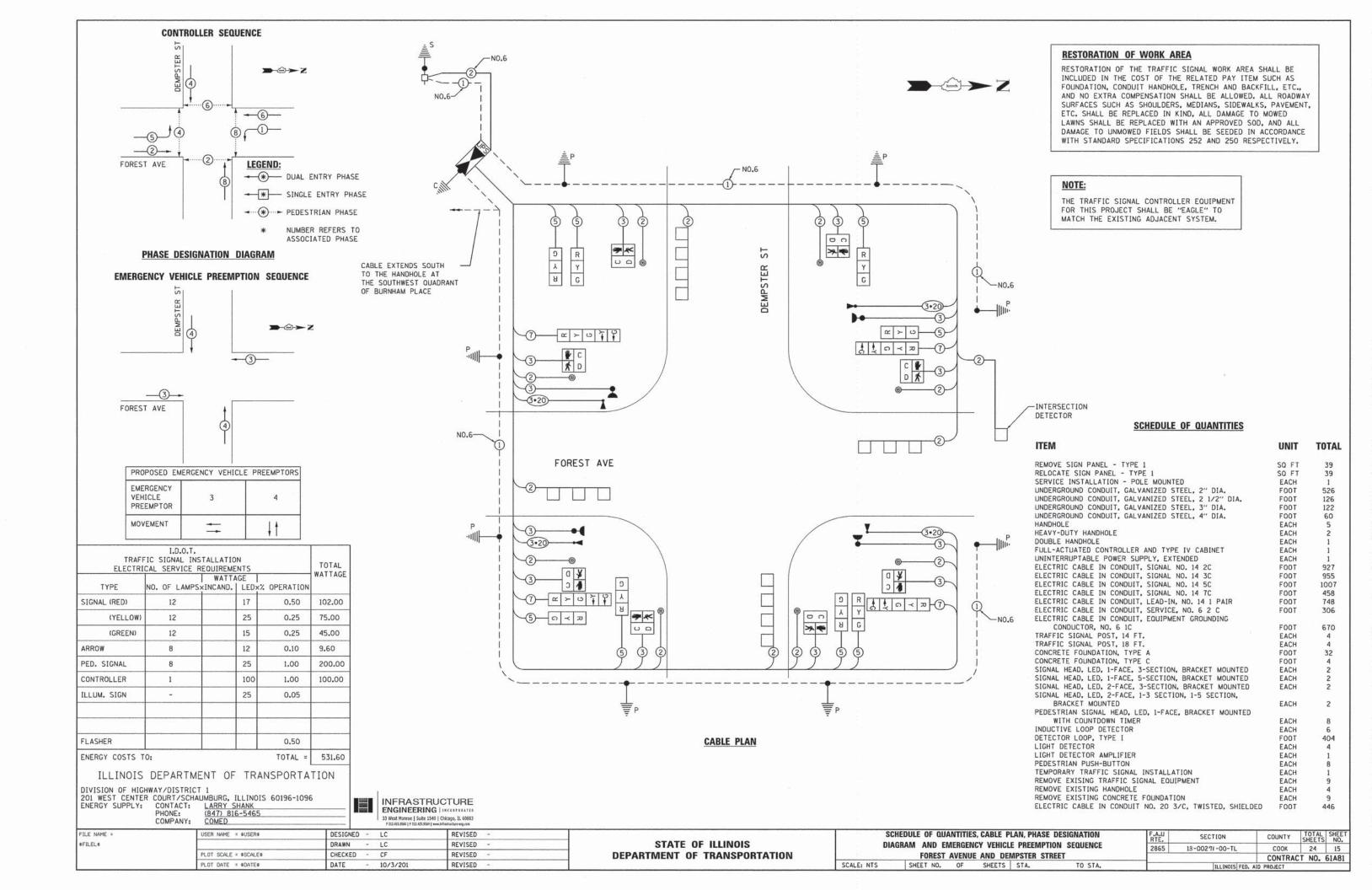
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G ≺ Z ── (5)

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RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEM SUCH AS INCLUDED IN THE COST OF THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, 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.





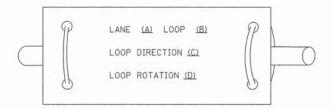
TRAFFIC SIGNAL LEGEND

| | | X-X | | | 1 | | | | | | | |
|--|------------------------|--------------------------------|-----------------------|---|---|-------------------|----------------|------------|---|----------------|---------------------|---------------------|
| ITEM | REMOVAL | EXISTING | PROPOSED | ITEM | | REMOVAL | EXISTING | PROPOSED | ITEM | REMOVAL | EXISTING | PROPOSED |
| CONTROLLER CABINET | R | | | EMERGENCY VEH | ICLE LIGHT DETECTOR | R _≪ ✓ | ≪ | - | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE | | <u></u> | |
| RAILROAD CONTROL CABINET | | | | CONFIRMATION E | BEACON | R _{O-} Q | 0-0 | +4 | NO. 14 17C, UNLESS NOTED OTHERWISE | | <i></i> | |
| COMMUNICATIONS CABINET | CC | ECC | CC | | | R | -7500 | _ | COAXIAL CABLE | | <u> </u> | —©— |
| MASTER CONTROLLER | | EMC | MC | HANDHOLE | | | | | * | | | |
| MASTER MASTER CONTROLLER UNINTERRUPTIBLE POWER SUPPLY | R UPS | EUPS | UPS | HEAVY DUTY HA | NDHOLE | H | Н | H | VENDOR CABLE FOR CAMERA | | _ Ø_ | - v- |
| SERVICE INSTALLATION. | | | | DOUBLE HANDHO | LE | R | | | COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED | | -6- | -6- |
| (P) POLE OR (G) GROUND MOUNT | -□ ^R | -D ² | - ■ P | JUNCTION BOX | 30.000 <u>0</u> | R | 0 | 0 | FIBER OPTIC CABLE | | <u>—(2F</u>)— | |
| TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT | R | P | PŢ | GALVANIZED ST | | | | | NO. 62.5/125, MM12F FIBER OPTIC CABLE | | | |
| STEEL MAST ARM ASSEMBLY AND POLE | R _O | 0 | • | TEMPORARY SPA | AN WIRE, TETHER WIRE, | R | - | | NO. 62.5/125, MM12F SM12F | | -Q4F- | —(24F)— |
| ALUMINUM MAST ARM ASSEMBLY AND POLE | R | 0 | | COMMON TRENCH | 4 | | | CT | FIBER OPTIC CABLE | | —36F— | —(36F)— |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE | ^R O->X | 0-× | • × | 7 - Marie 177 - 177-17 18 - 177-178-181 | ETALLIC CONDUIT (EMPTY) | | | CNC | NO. 62.5/125, MM12F SM24F | | — <u>Ş</u> 6F | |
| STEEL COMBINATION MAST ARM | R | Q | •—— | SYSTEM ITEM | | | S | S | GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, | | C | ^C ı∥— |
| ASSEMBLY AND POLE WITH PTZ CAMERA | PTZI | PTZD | PIZ | INTERSECTION I | ITEM | | I | IP | OR (S) SERVICE | | 111 | 4 |
| SIGNAL POST | RO | 0 | • | REMOVE ITEM | | R | | | CONTROLLER CABINET AND FOUNDATION TO BE REMOVED | RCF | | |
| TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM | $\overset{R}{\otimes}$ | \otimes | • | RELOCATE ITEM | | RL | | | | | | |
| GUY WIRE | >R | :>- | >- | ABANDON ITEM | | A | | | STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED | ORMF | | |
| SIGNAL HEAD | R A | > | - | 12" (300mm) TR | AFFIC SIGNAL SECTION | | R | R | ALUMINUM MAST ARM POLE AND | RMF | | |
| SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STA | AGE) | | → ² | | D WITH 8" (200mm) EEN TRAFFIC SIGNAL FACE | | 2 | | FOUNDATION TO BE REMOVED STEEL COMBINATION MAST ARM ASSEMBLY | RMF | | |
| SIGNAL HEAD WITH BACKPLATE | + | +1> | +- | | | | R | R | AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED | O-X | | |
| SIGNAL HEAD OPTICALLY PROGRAMMED | _R | -D′′p′′ | → "P" | STONAL FACE | | | \bigcirc | Y | SIGNAL POST AND FOUNDATION | RPF | | |
| FLASHER INSTALLATION (S DENOTES SOLAR POWER) | O₽″F″ | O-D″F″ | • "F" | SIGNAL FACE | | | | ← Y | TO BE REMOVED INTERSECTION & SAMPLING | 0 | 52 | |
| PEDESTRIAN SIGNAL HEAD | <u>-</u> - | -0 | -1 | | | | | | (SYSTEM) DETECTOR | | [IS] | IS |
| PEDESTRIAN PUSHBUTTON DETECTOR | R. | © | © | SIGNAL FACE W | ITH BACKPLATE. | | Š | R | SAMPLING (SYSTEM) DETECTOR | | [<u>s</u>] | S |
| ACCESSIBLE PEDESTRIAN PUSHBUTTON DETE | CTOR R APS | @APS | @ APS | "P" INDICATES | PROGRAMMED HEAD | | (G) | G ◆Y | QUEUE DETECTOR | | [0] | 0 |
| ILLUMINATED SIGN | R | | | "RB" INDICATES | REFLECTIVE BACKPLATE | | (+Y) | ← G | PREFORMED QUEUE DETECTOR | | PO | PO |
| "NO LEFT TURN" | | (8) | 9 | 10// /700 \ DE | DECEDIAN CIONAL HEAD | | | F | | | | [-3] |
| ILLUMINATED SIGN "NO RIGHT TURN" | R | | | WALK/DON'T WAI | DESTRIAN SIGNAL HEAD LK SYMBOL | | W W | | PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR | | PIS | PIS |
| DETECTOR LOOP, TYPE I | | [_] | | | DESTRIAN SIGNAL HEAD SYMBOL, OUTLINED | | | | PREFORMED SAMPLING (SYSTEM) DETECTOR | | ÎPSÎ | PS |
| PREFORMED DETECTOR LOOP | | 9-9 P | P | 12" (300mm) PE INTERNATIONAL | DESTRIAN SIGNAL HEAD SYMBOL, SOLID | | (| * | RAILROAD | SYMBO | ols | |
| MICROWAVE VEHICLE SENSOR | R M | [M] | (M) | | SNAL HEAD, INTERNATIONAL COUNTDOWN TIMER | | (C) C | ₽ C | | | EXISTING | PROPOSED |
| VIDEO DETECTION CAMERA | R V | <u> </u> | V | | | II.R | | | RAILROAD CONTROL CABINET | | EXISTING | <u>PROPOSED</u> |
| VIDEO DETECTION ZONE | | | | RADIO INTERCON | NNEU I | 0 | ##+0 | | RAILROAD CONTILEVER MAST ARM | * | X OX X X | (Anti-angle) |
| | R | | | RADIO REPEATER | R | RERR | ERR | RR | | 4 | | |
| PAN, TILT, ZOOM CAMERA | | 配 | PTZ 1 | | R OF CONDUCTORS, ELECTRIC UNLESS NOTED OTHERWISE, | | (5) | _5_ | FLASHING SIGNAL | | 20 2 | X⊕X |
| WIRELESS DETECTOR SENSOR | RW | (W) | W | | LOOP CABLE TO BE SHIELDED | | ~ | | CROSSING GATE | | 202> | X - X - |
| WIRELESS ACCESS POINT | R | | | GROUND CABLE NO. 6 SOLID CO | F100 L F 70 F10 F10 F10 F10 F10 L F10 L F10 | | | (1) | CROSSBUCK | | * | * |
| FILE NAME = USER NAME = 887 | | DESIGNED - DAG/BCK DRAWN - BCK | REVISED - | - DAG 1-1-14 | CTATE | OF ILLINOIS | s | | DISTRICT ONE | F.A.U. RTE. | SECTION | COUNTY TOTAL SHEETS |
| PLOT SCALE = 1.00 | 00 '/ in. | CHECKED - DAD | REVISED - | | DEPARTMENT | | | | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | 2865 | 13-00271-00-TL | COOK 24 1 |
| Default PLOT DATE = 12/2 | 29/2014 | DATE - 10/28/09 | REVISED - | | | | | SCALE: NO | NE SHEET NO. 1 OF 7 SHEETS STA. TO ST | Α, | ILLINOIS FE | AID PROJECT |

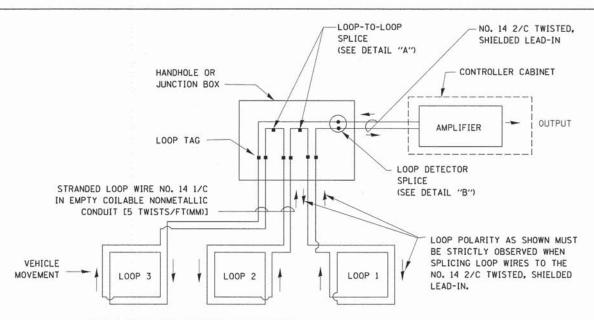
LOOP DETECTOR NOTES

- 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.
- 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

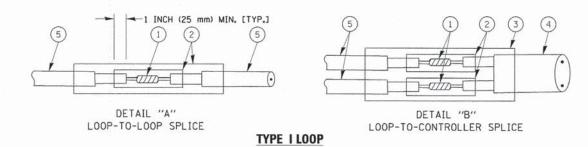


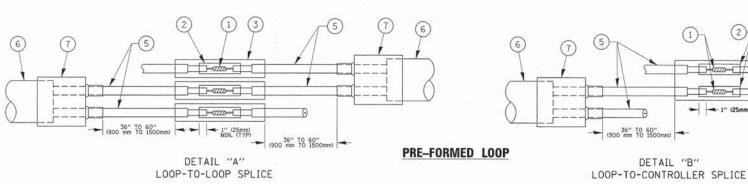
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.





LOOP DETECTOR SPLICE

- 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 LENGHT 6" (150 mm), UNDERWATER GRADE.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- TL POLYOLEFIN 2 CONDUCTOR
 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

| FILE NAME = | USER NAME = footemj | DESIGNED - | DAD | REVISED - DAG 1-1-14 |
|--|-----------------------------|------------|----------|----------------------|
| c:\pw_work\pwidot\footemj\d0108315\ts05. | dgn | DRAWN - | BCK | REVISED - |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - | DAD | REVISED - |
| | PLOT DATE = 1/13/2014 | DATE - | 10-28-09 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

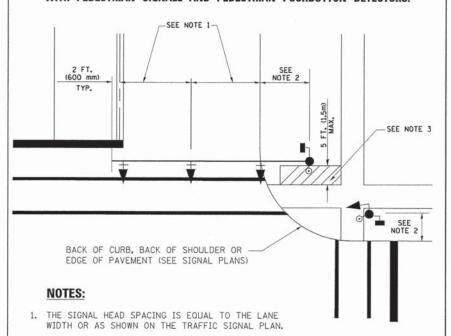
| DISTRICT ONE | | | | | | | | | |
|--------------|---------|--------|--------|---------|---------|--|--|--|--|
| STANDARD | TRAFFIC | SIGNAL | DESIGN | DETAILS | | | | | |
| SHEET NO. 2 | OF 7 | SHEETS | STA. | | TO STA. | | | | |

FA.U. SECTION COUNTY TOTAL SHEETS NO. 2865 13-00271-00-TL COOK 24 17

TS-05 CONTRACT NO. 61A81

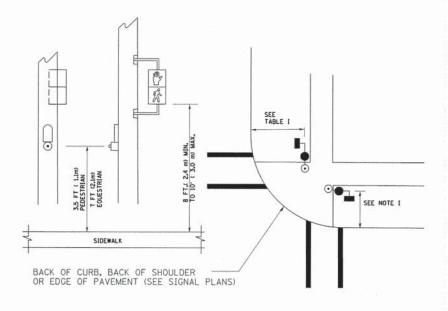
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID | PROJECT

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALKBICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 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.
- 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.
- 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 MUTCO AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS 5.0 FT. (1.5 m) MAX. 5.0 FT. (1.5 m) MAX. LEGEND DOWNWARD SLOPE PEDESTRIAN PUSHBUTTON RECOMMENDED PEDESTRIAN PUSHBUTTON RECOMMENDED

- * 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:

- 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.
- 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. |

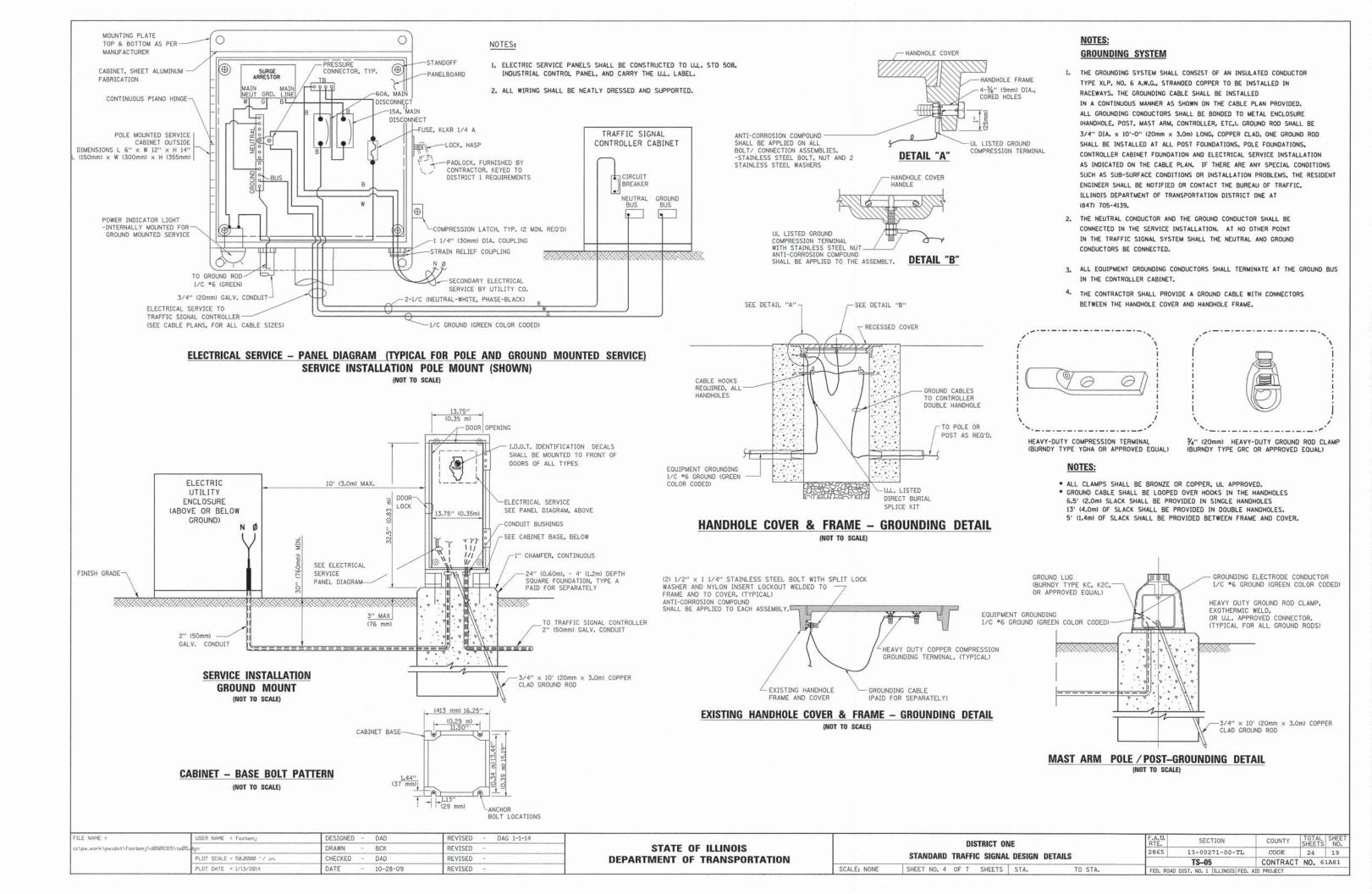
NOTES:

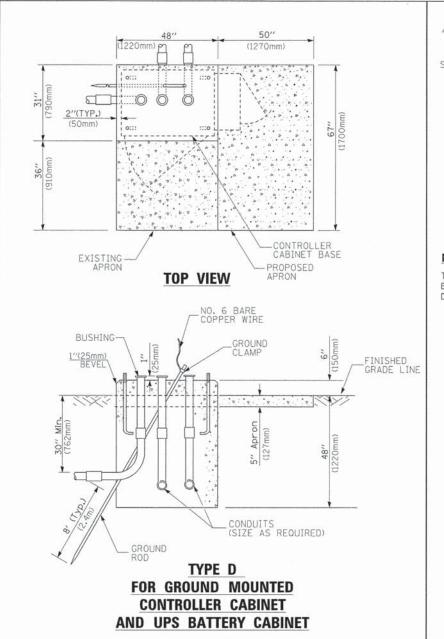
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 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.

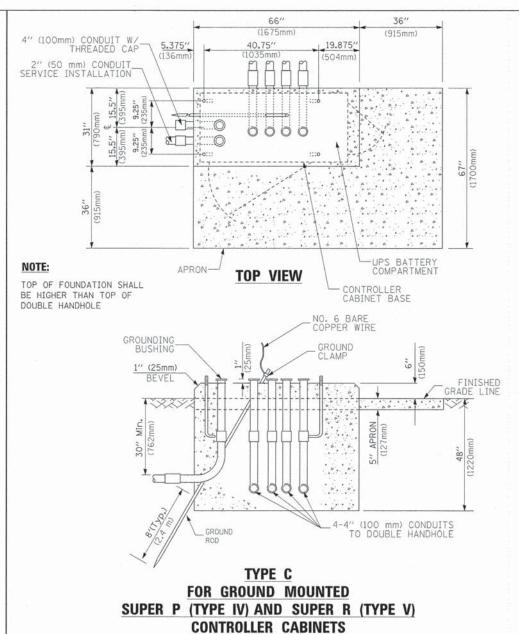
| FILE NAME = | USER NAME = footemj | DESIGNED - DAD | REVISED - DAG 1-1-14 |
|--|-----------------------------|-----------------|----------------------|
| c:\pw_work\pwidot\footemj\d0108315\ts05. | fgn | DRAWN - BCK | REVISED - |
| | PLOT SCALE = 50.0000 '/ in. | CHECKED - DAD | REVISED - |
| | PLOT DATE = 1/13/2014 | DATE - 10-28-09 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| DISTRICT ONE | | | | | | F.A.U. SECTION | | COUNTY | TOTAL | SHEET NO. |
|--|----------|---------|---|--------|--|----------------|----------------|----------|--------|--------------|
| | STANDARD | TRAFE | C SIGNAL | DECICN | DETAILS | 2865 | 13-00271-00-TL | COOK | 24 | 18 |
| | STANDAND | Inarr | O SIGNAL | DESIGN | DETAILS | | TS-05 | CONTRACT | NO. 61 | A81 |
| SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. | | TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. / | | The state of the s | | | | | |







| 65" (SEE NOTE 4) (1651mm) |
|--|
| SEE NOTE 5 (1245mm) |
| (1245mm) 44" _ 16" _ |
| 2 TITIBmm) 4406mm) |
| |
| (64mm) = (21/2") = (16/4) = (1 |
| |
| |
| 2" × 6" |
| (51mm x 152mm) |
| WOOD FRAMING (TYP.) |
| |
| |
| |
| |
| TRAFFIC SIGNAL - |
| TRAFFIC SIGNAL———————————————————————————————————— |
| UPS |
| CABINET |
| 3/4" (19mm) TREATED |
| PHYWOOD DECK |
| 2" × 6" (51mm × 152mm) • • • |
| TREATED WOOD |
| MIN, |
| 305mm) |
| |
| a garage and a gar |
| 48° MIN. |
| 62 1 1 1 1 1 1 |
| |
| 6" x 6" (152mm x 152mm) NOTES: TREATED WOOD POSTS |
| NUTES: |
| 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 $16'' \times 25''$ (406mm \times 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 |

| 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

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 |

DEPTH OF FOUNDATION

TYPE C - CONTROLLER W/ UPS TYPE D - CONTROLLER

FOUNDATION

TYPE A - Signal Post

SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE

| 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 | 13'-6" (4.1 m) | 30" (750mm) | 24" (600mm) | 8 | 6(19) |
| 30' (9.1 m) and less than 40' (12.2 m) | 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) |

DEPTH

4'-0" (1.2m)

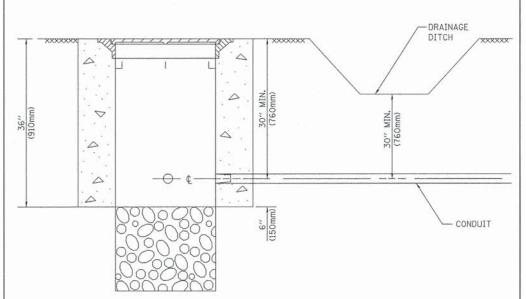
4'-0" (1.2m)

4'-0" (1.2m)

- 1. These foundation depths are for sites which have cohesive soils (clayey slit, 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 Enginee during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination mast arm assembles under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assembles 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

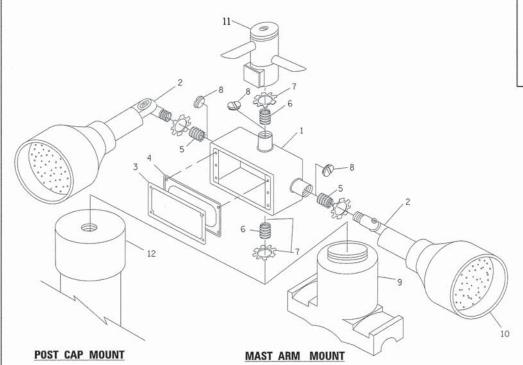
| FILE NAME = | USER NAME = footemj | DESIGNED - DAG | REVISED - DAG 1-1-14 | | | DISTRICT ONE | F.A.U. | SECTION | COUNTY | TOTAL | SHEET | | | | |
|--|------------------------------|-----------------|----------------------|--|--|--|--------|--|--------|--------------|-------|--|-------------|----|----|
| c:\pw_work\pwidot\footemj\d0108315\ts05. | dgn | DRAWN - BCK | REVISED - | | | STATE OF ILLINOIS | | STATE UF ILLINUIS | | DISTRICT ONE | | | COOK | 24 | 20 |
| | PLOT SCALE = 50.0000 ' / in. | CHECKED - DAD | REVISED - | | | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | | | 61A81 | | | | | |
| | PLOT DATE = 1/13/2014 | DATE - 10-28-09 | REVISED - | | | SCALE: NONE SHEET NO. 5 OF 7 SHEETS STA. TO STA. | | SCALE: NONE SHEET NO. 5 OF 7 SHEETS STA. TO STA. | | | | | AID PROJECT | | |



NOTES:

- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 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



66' (1675mm) (915mm) 19.875" 5.375" (136mm (1035mm) (504mm) PROPOSED APRON CONTROLLER CABINET BASE TOP VIEW COPPER WIRE NO. 3 DOWEL 18" (450mm) LONG (8 REQ.) BUSHING -_GROUND CLAMP EXISTING ANCHOR BOLTS -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION

MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

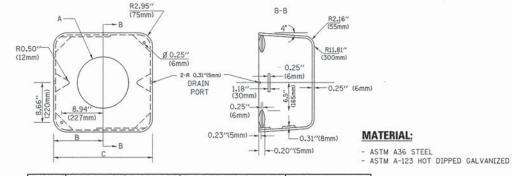
(NOT TO SCALE)

| 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 | 7/4"(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:

- 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
- POST CAP MOUNT

 MAST ARM MOUNT

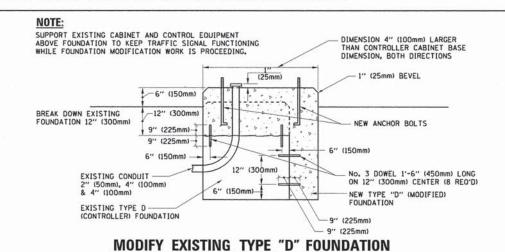


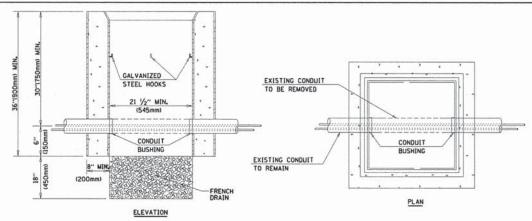
| Α | В | С | HEIGHT | WEIGHT |
|--------|---------------|--------------|--------------------------|-----------------|
| VARIES | 9.5"(241mm) | 19"(483mm) | 7" (178mm) - 12" (300mm) | 53 lbs (24kg) |
| VARIES | 10.75"(273mm) | 21.5"(546mm) | 7" (178mm) - 12" (300mm) | 68 lbs (31 kg) |
| VARIES | 13.0"(330mm) | 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

- 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.





NOTES:

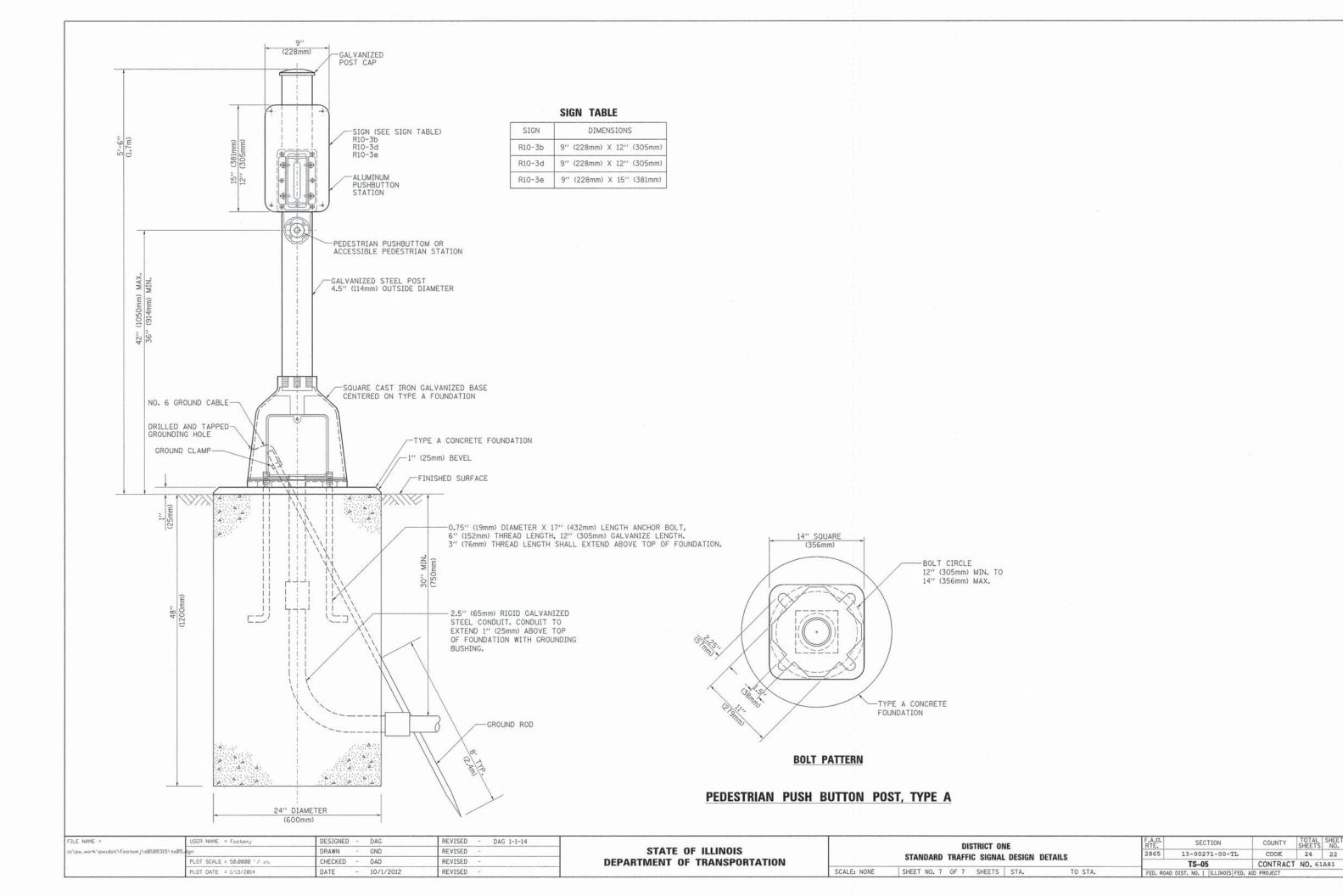
SCALE: NONE

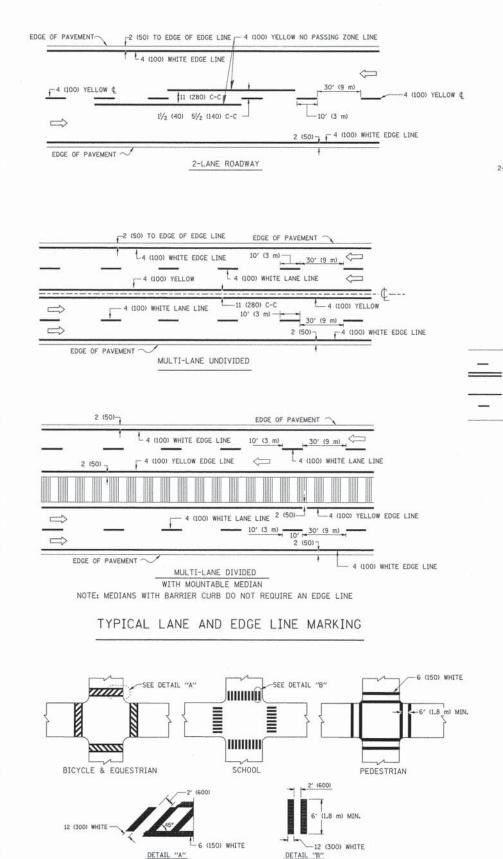
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

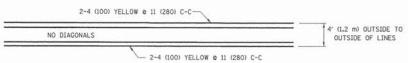
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| DISTRICT ONE | | | | | F.A.U. SECTION | | COUNTY TOTAL SHEETS | | SHEET NO. |
|--|------|--------|------|---------|----------------|-----------------------------|---------------------|----|--------------|
| STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | | | 2865 | 13-00271-00-TL | COOK | 24 | 21 | |
| | | | | JETAILS | | TS-05 | CONTRACT NO. 61A81 | | |
| HEET NO. 6 | OF 7 | SHEETS | STA. | TO STA. | FED. ROAD | DIST. NO. 1 ILLINOIS FED. | AID PROJECT | | |

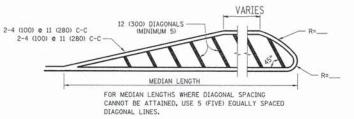




TYPICAL CROSSWALK MARKING

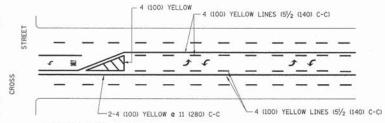


4' (1.2 m) WIDE MEDIANS ONLY

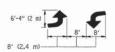


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

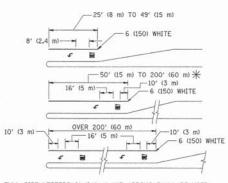


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

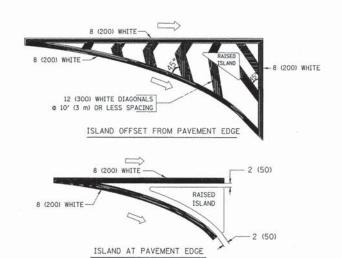


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²)) (MLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|---|---|-------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION | SKIP-DASH AND SOLID | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE |
| | 8' (2.4m) LEFT ARROW | IN PAIRS | WHITE | SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| GORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | OIACONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: "R"53.6 SO. FT. (0.33 m²) EACH "X"54.0 SO. FT. (5.0 m²) |
| SHOULDER DIAGONALS | 12 (300) @ 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h)) |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

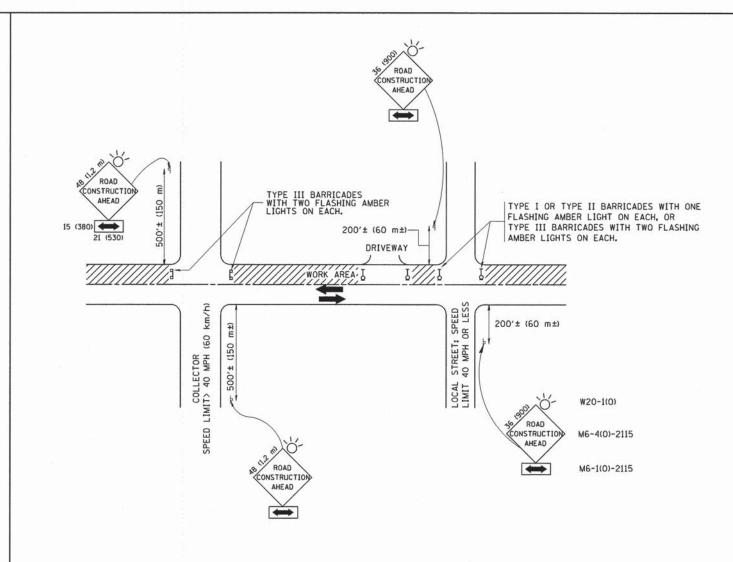
SCALE: NONE

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

| FILE NAME = | USER NAME = drivakosgn | DESIGNED - EVERS | REVISED -T. RAMMACHER 10-27-94 |
|------------------------------------|-----------------------------|------------------|--------------------------------|
| c:\pw_work\pwidot\drivakosgn\d0108 | 3315\to 3.dgn | DRAWN - | REVISED -C. JUCIUS 09-09-09 |
| | PLOT SCALE = 50.000 ' / IN. | CHECKED - | REVISED - |
| | PLOT DATE = 9/9/2009 | DATE - 03-19-90 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| DISTRICT ONE TYPICAL PAVEMENT MARKINGS | | | | | F.A.U. RTE. | SECTION | COUNTY TOTAL | | SHEET NO. | | | |
|--|-----|---|----|---|----------------|--------------------|--------------|---|--------------|--|--|---|
| | | | | | 2865 | 13-00271-00-TL | COOK | 24 | 23 | | | |
| | | | | | TC-13 | CONTRACT NO. 61A81 | | | | | | |
| SHEET | NO. | 1 | OF | 1 | SHEETS | STA. | TO STA. | FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJE | | | | - |



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

SCALE: NONE

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME = USER NAME = gaglianobt DESIGNED - LHA REVISED - J. OBERLE 10-18-95
Wildistatd\22x34\tal0.dgn

DRAWN - REVISED - A. HOUSEH 03-06-96
PLOT SCALE = 50.000 '/ IN, CHECKED - REVISED - A. HOUSEH 10-15-96
PLOT DATE = 1/4/2008 DATE - 06-89 REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SHEET NO. 1 OF 1 SHEETS STA. TO