

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

F.A.U. ROUTE 1583: 115TH STREET  
AT PULASKI RD.

SECTION: 0303-RS&N

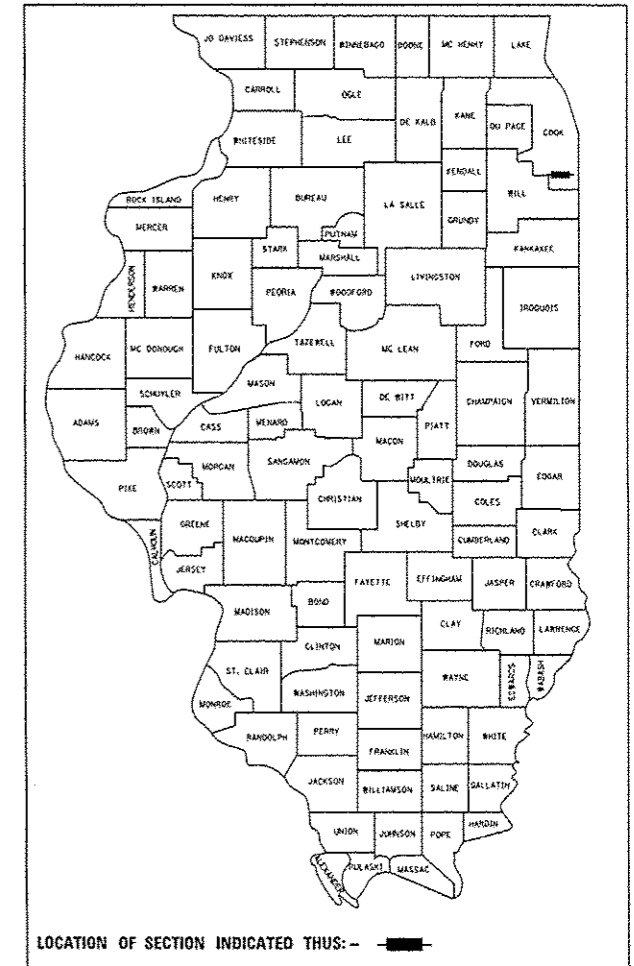
**INTERSECTION RECONSTRUCTION; TRAFFIC SIGNAL MODERNIZATION  
PROJECT: ACCM-1583 (005)  
COOK COUNTY**

C-91-576-12

| F.A.U. R.T.E. | SECTION   | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|---------------|-----------|----------|--------------------|-----------|
| 1583          | 0303-RS&N | COOK     | 87                 | 1         |
|               |           | ILLINOIS | CONTRACT NO. 60V52 |           |

\*87+4=91

D-91-576-12



FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGE OF ALSIP AND CITY OF CHICAGO.

**TRAFFIC DATA**

**115TH ST.**

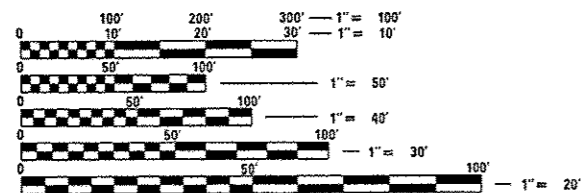
ADT (2010) = 12,900

POSTED SPEED LIMIT = 35 MPH

**PULASKI RD.**

ADT (2010) = 29,200

POSTED SPEED LIMIT = 35 MPH

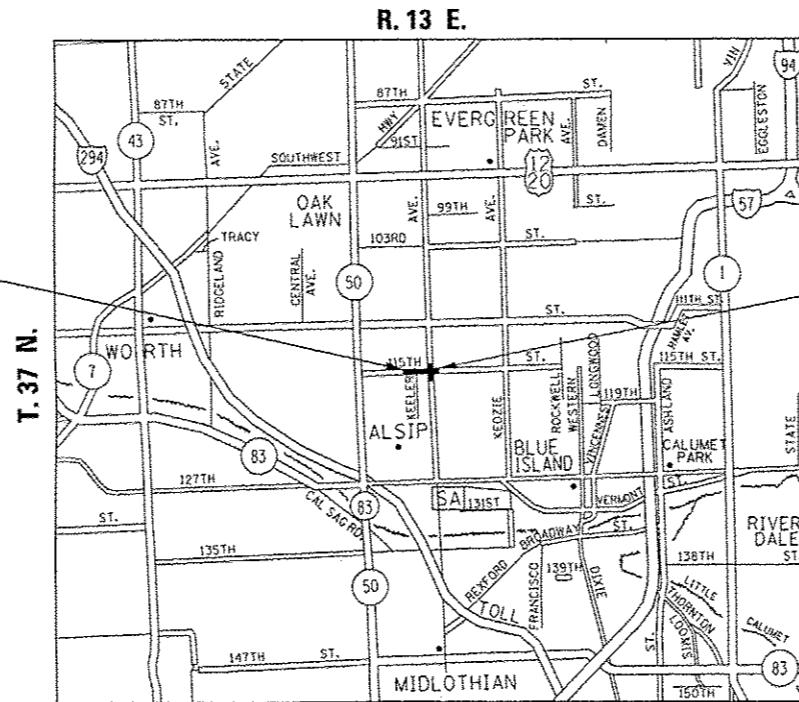


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

C.U.A.N.  
CHICAGO UTILITY ALERT NETWORK  
1-312-744-7000

PROJECT BEGINS  
STA. 193 + 50



PROJECT ENDS  
STA. 206 + 72

LAKE & WORTH TOWNSHIPS

GROSS & NET LENGTH = 1322.00 FT. = 0.250 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *June 25 2014*

*John P. ...*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*Aug 14 2015*  
*John D. Baranzelli, P.E.*  
ENGINEER OF DESIGN AND ENVIRONMENT

*Aug 14 2015*  
*Orner Osman, P.E.*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

PROJECT ENGINEER J. ALAIN MIDY (847) 221-3056  
PROJECT MANAGER ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 60V52

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| 78-87.    | CROSS SECTIONS  |

**STATE STANDARDS**

| STANDARD NO | DESCRIPTION   |
|-------------|---|
| 280001-07   | TEMPORARY EROSION CONTROL SYSTEM                                    |
| 424001-08   | PERPENDICULAR CURB RAMPS FOR SIDEWALKS                              |
| 442201-03   | CLASS C & D PATCHES   |
| 601001-04   | SUB-SURFACE DRAINS  |
| 602001-02   | CATCH BASIN TYPE A  |
| 602011-02   | CATCH BASIN TYPE C  |
| 604086-03   | FRAME AND GRATE TYPE 23   |
| 606001-06   | CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER                |
| 701101-04   | OFF ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE       |
| 701427-03   | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS ≤ 40 MPH |
| 701606-10   | URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN             |
| 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                                  |
| 876001-03   | PEDESTRIAN PUSH BUTTON POST   |
| 877001-05   | STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'                    |
| 878001-10   | CONCRETE FOUNDATION DETAILS   |
| 880006-01   | TRAFFIC SIGNAL MOUNTING DETAILS                                     |
| 886001-01   | DETECTOR LOOP INSTALLATION  |

**GENERAL NOTES:**

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

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312)744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF ALSIP AND THE CITY OF CHICAGO.

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

USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS. USE THE "LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE)" DETAIL SHOWN ON HIGHWAY STANDARD 420001 FOR ALL LONGITUDINAL JOINTS AND FOR TYING PCC PAVEMENT WIDENING TO EXISTING CONCRETE PAVEMENT AS SHOWN ON THE PLANS.

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)), WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER AT (708) 597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

ALL PIPE UNDERDRAINS SHALL BE PLACED AT A DEPTH OF 30" BELOW THE TOP OF PROPOSED PAVEMENT OR AS DEEP AS POSSIBLE AND IN ACCORDANCE WITH CHECK SHEET #19 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAIN PAY ITEM.

ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REPLACED ACCORDING TO DISTRICT ONE DETAIL - "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)."

REV.

|   |                          |            |           |   |   |           |      |        |                |         |        |                           |              |
|---|--------------------------|------------|-----------|---|---|-----------|------|--------|----------------|---------|--------|---------------------------|--------------|
| FILE NAME : p:\11\04\BID\INTEG\Illinois.gov\FW1007\Do | USER NAME : pyzanoski@rb | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>INDEX OF SHEETS, STATE STANDARDS<br/>AND GENERAL NOTES</b> |           |      |        | F.A.U.<br>RTE. | SECTION | COUNTY | TOTAL<br>SHEETS           | SHEET<br>NO. |
|   |                          | CHECKED -  | REVISED - |   | 1583  | 0303-RS&N | COOK | 87     | 2              |         |        |                           |              |
|   |                          | DATE -     | REVISED - |   | CONTRACT NO. 60V52  |           |      |        |                |         |        |                           |              |
| Default   |                          |            |           |   | SCALE:  | SHEET     | OF   | SHEETS | STA.           | TO      | STA.   | ILLINOIS FED. AID PROJECT |              |

| SUMMARY OF QUANTITIES |  |       | CONSTRUCTION TYPE CODE |                                |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--|-------|------------------------|--------------------------------|--|---------------------|--------------------------------------|--------------------------------|---|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| CODE NO               | ITEM   | UNIT  | URBAN TOTAL QUANTITIES | ROADWAY 0004 80% Fed 20% State | TRAFFIC SIGNAL 0021 80% Fed 15% State 5% Aisip | EVP 0021 100% Aisip | INTER-CONNECT 0021 80% Fed 20% State | ALSIP LIGHTING 0021 100% Aisip | CHICAGO LIGHTING 0021 80% Fed 20% State | FIRE HYDRANTS 0043 100% Aisip | ROADWAY SIDEWALK 0004 80% Fed 20% Aisip |  |  |  |  |  |  |  |  |  |  |  |  |
| 20200100              | EARTH EXCAVATION                             | CU YD | 396                    | 396                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 20800150              | TRENCH BACKFILL                              | CU YD | 37.7                   | 37.7                           |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 21101505              | TOPSOIL EXCAVATION AND PLACEMENT             | CU YD | 75                     | 75                             |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 25000400              | NITROGEN FERTILIZER NUTRIENT                 | POUND | 8.5                    | 8.5                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 25000500              | PHOSPHORUS FERTILIZER NUTRIENT               | POUND | 8.5                    | 8.5                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 25000600              | POTASSIUM FERTILIZER NUTRIENT                | POUND | 8.5                    | 8.5                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 25100630              | EROSION CONTROL BLANKET                      | SQ YD | 345                    | 345                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 25200110              | SODDING, SALT TOLERANT                       | SQ YD | 345                    | 345                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 30300112              | AGGREGATE SUBGRADE IMPROVEMENT 12"           | SQ YD | 464                    | 464                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 35501316              | HOT-MIX ASPHALT BASE COURSE, 8"              | SQ YD | 167                    | 167                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 35501317              | HOT-MIX ASPHALT BASE COURSE, 8 1/4"          | SQ YD | 401                    | 401                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 40600275              | BITUMINOUS MATERIALS (PRIME COAT)            | POUND | 6098                   | 6098                           |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 40600400              | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS   | TON   | 17                     | 17                             |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 40600982              | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 271                    | 271                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 40601005              | HOT-MIX ASPHALT REPLACEMENT OVER PATCHES     | TON   | 8                      | 8                              |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 40603335              | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 | TON   | 9                      | 9                              |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |

| SUMMARY OF QUANTITIES |  |       | CONSTRUCTION TYPE CODE |                                |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--|-------|------------------------|--------------------------------|--|---------------------|--------------------------------------|--------------------------------|---|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| CODE NO               | ITEM   | UNIT  | URBAN TOTAL QUANTITIES | ROADWAY 0004 80% Fed 20% State | TRAFFIC SIGNAL 0021 80% Fed 15% State 5% Alsip | EVP 0021 100% Alsip | INTER-CONNECT 0021 80% Fed 20% State | ALSIP LIGHTING 0021 100% Alsip | CHICAGO LIGHTING 0021 80% Fed 20% State | FIRE HYDRANTS 0043 100% Alsip | ROADWAY SIDEWALK 0004 80% Fed 20% Alsip |  |  |  |  |  |  |  |  |  |  |  |  |
| 40603595              | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 | TON   | 1272                   | 1272                           |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 42001300              | PROTECTIVE COAT  | SQ YD | 239                    | 239                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 42400200              | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH                 | SQ FT | 1952                   | 1272                           |  |                     |                                      |                                |   |                               | 680                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| 42400800              | DETECTABLE WARNINGS                                      | SQ FT | 54                     | 54                             |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 44000156              | HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"                  | SQ YD | 2821                   | 2821                           |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 44000157              | HOT-MIX ASPHALT SURFACE REMOVAL, 2"                      | SQ YD | 5082                   | 5082                           |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 44000200              | DRIVEWAY PAVEMENT REMOVAL                                | SQ YD | 211                    | 211                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 44000500              | COMBINATION CURB AND GUTTER REMOVAL                      | FOOT  | 840                    | 840                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 44000600              | SIDEWALK REMOVAL   | SQ FT | 1490                   | 1490                           |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 44002211              | HOT-MIX ASPHALT REMOVAL OVER PATCHES. 2 3/4"             | SQ YD | 58                     | 58                             |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 44201353              | CLASS C PATCHES, TYPE II, 10 INCH                        | SQ YD | 56                     | 56                             |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 44201765              | CLASS D PATCHES, TYPE II, 10 INCH                        | SQ YD | 102                    | 102                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 44201771              | CLASS D PATCHES, TYPE IV, 10 INCH                        | SQ YD | 54                     | 54                             |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 44300200              | STRIP REFLECTIVE CRACK CONTROL TREATMENT                 | FOOT  | 583                    | 583                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 550A0340              | STORM SEWERS, CLASS A, TYPE 2 12"                        | FOOT  | 38                     | 38                             |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |  |
| 56400400              | FIRE HYDRANTS TO BE RELOCATED                            | EACH  | 1                      |                                |  |                     |                                      |                                |   | 1                             |   |  |  |  |  |  |  |  |  |  |  |  |  |





| SUMMARY OF QUANTITIES |   |      | CONSTRUCTION TYPE CODE |                                |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|---|------|------------------------|--------------------------------|--|---------------------|--------------------------------------|--------------------------------|---|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| CODE NO               | ITEM  | UNIT | URBAN TOTAL QUANTITIES | ROADWAY 0004 80% Fed 20% State | TRAFFIC SIGNAL 0021 80% Fed 15% State 5% Aisip | EVP 0021 100% Aisip | INTER-CONNECT 0021 80% Fed 20% State | ALSIP LIGHTING 0021 100% Aisip | CHICAGO LIGHTING 0021 80% Fed 20% State | FIRE HYDRANTS 0043 100% Aisip | ROADWAY SIDEWALK 0004 80% Fed 20% Aisip |  |  |  |  |  |  |  |  |  |  |  |
| * 81028220            | UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.  | FOOT | 53                     |                                | 53   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 81028240            | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.  | FOOT | 338                    |                                | 338  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 81400100            | HANDHOLE  | EACH | 4                      |                                | 4  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 81400200            | HEAVY-DUTY HANDHOLE   | EACH | 4                      |                                | 4  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 81400300            | DOUBLE HANDHOLE   | EACH | 2                      |                                | 2  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 81603136            | UNIT DUCT, 600V, 5-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT | 280                    |                                |  |                     |                                      | 280                            |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 83600355            | LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6'                                  | EACH | 3                      |                                |  |                     |                                      | 3                              |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 85000200            | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                                     | EACH | 2                      |                                |  |                     | 2                                    |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 86400100            | TRANSCEIVER - FIBER OPTIC   | EACH | 1                      |                                |  |                     | 1                                    |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87300925            | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C  | FOOT | 5171                   |                                |  |                     | 5171                                 |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87301215            | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C   | FOOT | 2701                   |                                | 2701   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87301225            | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C   | FOOT | 1522                   |                                |  | 1522                |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87301245            | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C   | FOOT | 1213                   |                                | 1213   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87301255            | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C   | FOOT | 1883                   |                                | 1883   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87301305            | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR                                       | FOOT | 1315                   |                                | 1315   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87301805            | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C   | FOOT | 92                     |                                | 92   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |

|              |             |            |           |   |                              |   |           |        |              |           |  |
|--------------|-------------|------------|-----------|---|------------------------------|---|-----------|--------|--------------|-----------|--|
| FILE NAME :  | USER NAME : | DESIGNED : | REVISED : | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUMMARY OF QUANTITIES</b> | F.A.U. RTE.                                     | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |  |
| PROJECT :    | OFFICE :    | CHECKED :  | REVISED : |   |                              | 1583  | 0303-RS&H | COOK   | 87           | 7         |  |
| PLOT SCALE : | PLOT DATE : | DATE :     | REVISED : |   |                              | CONTRACT NO. 60V52                              |           |        |              |           |  |
|              |             |            |           |   |                              | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |              |           |  |

\* SPECIALTY ITEMS

| SUMMARY OF QUANTITIES |   |      | CONSTRUCTION TYPE CODE |                                |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|---|------|------------------------|--------------------------------|--|---------------------|--------------------------------------|--------------------------------|---|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| CODE NO               | ITEM  | UNIT | URBAN TOTAL QUANTITIES | ROADWAY 0004 80% Fed 20% State | TRAFFIC SIGNAL 0021 80% Fed 15% State 5% Aisip | EVP 0021 100% Aisip | INTER-CONNECT 0021 80% Fed 20% State | ALSIP LIGHTING 0021 100% Aisip | CHICAGO LIGHTING 0021 80% Fed 20% State | FIRE HYDRANTS 0043 100% Aisip | ROADWAY SIDEWALK 0004 80% Fed 20% Aisip |  |  |  |  |  |  |  |  |  |  |  |
| * 87301900            | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C        | FOOT | 579                    |                                | 579  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87502500            | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              | EACH | 3                      |                                | 3  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87700220            | STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.                                  | EACH | 2                      |                                | 2  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87700260            | STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.                                  | EACH | 1                      |                                | 1  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87700280            | STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.                                  | EACH | 1                      |                                | 1  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87800100            | CONCRETE FOUNDATION, TYPE A   | FOOT | 12                     |                                | 12   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87800150            | CONCRETE FOUNDATION, TYPE C   | FOOT | 4                      |                                | 4  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87800415            | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER                              | FOOT | 48                     |                                | 48   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 87900200            | DRILL EXISTING HANDHOLE   | EACH | 13                     |                                | 1  |                     |                                      |                                | 12                                      |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 88030020            | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                     | EACH | 6                      |                                | 6  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 88030100            | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                      | EACH | 5                      |                                | 5  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 88030110            | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                     | EACH | 5                      |                                | 5  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 88102717            | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 8                      |                                | 8  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 88200400            | TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC                                  | EACH | 12                     |                                | 12   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 88500100            | INDUCTIVE LOOP DETECTOR   | EACH | 10                     |                                | 10   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 88600100            | DETECTOR LOOP, TYPE I   | FOOT | 1028                   |                                | 1028   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |

|              |             |            |           |   |                              |   |           |        |              |           |  |
|--------------|-------------|------------|-----------|---|------------------------------|---|-----------|--------|--------------|-----------|--|
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| PROJECT :    | DATE :      | CHECKED :  | REVISED : |   |                              | 1583  | 0303-R5&N | COOK   | 87           | 8         |  |
| PLOT SCALE : | PLOT DATE : | DATE :     | REVISED : |   |                              | CONTRACT NO. 60V52                              |           |        |              |           |  |
|              |             |            |           |   |                              | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |              |           |  |

\* SPECIALTY ITEMS



| SUMMARY OF QUANTITIES |  |      | CONSTRUCTION TYPE CODE |                                |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--|------|------------------------|--------------------------------|--|---------------------|--------------------------------------|--------------------------------|---|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| CODE NO               | ITEM   | UNIT | URBAN TOTAL QUANTITIES | ROADWAY 0004 80% Fed 20% State | TRAFFIC SIGNAL 0021 80% Fed 15% State 5% Aisip | EVP 0021 100% Aisip | INTER-CONNECT 0021 80% Fed 20% State | ALSIP LIGHTING 0021 100% Aisip | CHICAGO LIGHTING 0021 80% Fed 20% State | FIRE HYDRANTS 0043 100% Aisip | ROADWAY SIDEWALK 0004 80% Fed 20% Aisip |  |  |  |  |  |  |  |  |  |  |  |
| * 88800100            | PEDESTRIAN PUSH-BUTTON   | EACH | 8                      |                                | 8  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 89000100            | TEMPORARY TRAFFIC SIGNAL INSTALLATION                              | EACH | 1                      |                                | 1  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 89501400            | RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 2                      |                                |  | 2                   |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 89501410            | RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT  | EACH | 1                      |                                |  | 1                   |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 89502300            | REMOVE ELECTRIC CABLE FROM CONDUIT                                 | FOOT | 5171                   |                                |  |                     | 5171                                 |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 89502375            | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                           | EACH | 1                      |                                | 1  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 89502380            | REMOVE EXISTING HANDHOLE   | EACH | 10                     |                                | 10   |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * 89502385            | REMOVE EXISTING CONCRETE FOUNDATION                                | EACH | 13                     |                                | 8  |                     |                                      |                                | 5                                       |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X0322708            | REMOVE EXISTING STREET LIGHTING EQUIPMENT                          | EACH | 1                      |                                |  |                     |                                      |                                | 1                                       |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X0324085            | EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C    | FOOT | 247                    |                                |  | 247                 |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X0324599            | ROD AND CLEAN EXISTING CONDUIT                                     | FOOT | 5171                   |                                |  |                     | 5171                                 |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X0326968            | JUNCTION BOX, POLE OR POST MOUNTED                                 | EACH | 2                      |                                |  |                     |                                      |                                | 2                                       |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X0327006            | ROADWAY LIGHT POLE, INSTALL ONLY                                   | EACH | 6                      |                                |  |                     |                                      |                                | 6                                       |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X0370001            | TRENCH AND BACKFILL WITH SCREENINGS CHICAGO                        | FOOT | 220                    |                                |  |                     |                                      |                                | 220                                     |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X0370012            | COILABLE CONDUIT, HDPE #80, DIRECTIONAL BORING, 2", CDOT           | FOOT | 690                    |                                |  |                     |                                      |                                | 690                                     |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X0370119            | WIRE, AERIAL, 1/C NO. 6, CDOT                                      | FOOT | 450                    |                                |  |                     |                                      |                                | 450                                     |                               |   |  |  |  |  |  |  |  |  |  |  |  |

|               |                |            |           |   |                       |   |           |        |              |           |  |
|---------------|----------------|------------|-----------|---|-----------------------|---|-----------|--------|--------------|-----------|--|
| FILE NAME =   | USER NAME =    | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | F.A.U. R/E.                                     | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |  |
| PROJECT NO. = | PROJECT NAME = | CHECKED -  | REVISED - |   |                       | 1583  | 0303-RS&N | COOK   | 87           | 9         |  |
| PLOT SCALE =  | PLOT DATE =    | DATE -     | REVISED - |   |                       | CONTRACT NO. 60V52                              |           |        |              |           |  |
|               |                |            |           |   |                       | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |              |           |  |

\* SPECIALTY ITEMS

| SUMMARY OF QUANTITIES |   |       | CONSTRUCTION TYPE CODE |                                |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|---|-------|------------------------|--------------------------------|--|---------------------|--------------------------------------|--------------------------------|---|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| CODE NO               | ITEM  | UNIT  | URBAN TOTAL QUANTITIES | ROADWAY 0004 80% Fed 20% State | TRAFFIC SIGNAL 0021 80% Fed 15% State 5% Aisip | EVP 0021 100% Aisip | INTER-CONNECT 0021 80% Fed 20% State | ALSIP LIGHTING 0021 100% Aisip | CHICAGO LIGHTING 0021 80% Fed 20% State | FIRE HYDRANTS 0043 100% Aisip | ROADWAY SIDEWALK 0004 80% Fed 20% Aisip |  |  |  |  |  |  |  |  |  |  |  |
| * X0370120            | RACK, SECONDARY AERIAL., 2 WIRE, CDOT   | EACH  | 3                      |                                |  |                     |                                      |                                | 3                                       |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X1400081            | FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)                           | EACH  | 1                      |                                | 1  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| X4400100              | PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)                             | SQ YD | 777                    | 777                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| △ X5537800            | STORM SEWERS TO BE CLEANED 12"  | EACH  | 300                    | 300                            |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| X6022505              | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)           | EACH  | 1                      | 1                              |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| X6030310              | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)  | EACH  | 20                     | 20                             |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| X7010216              | TRAFFIC CONTROL AND PROTECTION, (SPECIAL)   | L SUM | 1                      | 1                              |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| X7030025              | WET REFLECTIVE TEMPORARY TAPE TYPE III, - LETTERS AND SYMBOLS                         | SQ FT | 759.2                  | 759.2                          |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| X7030030              | WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH  | FOOT  | 7255                   | 7255                           |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| X7030040              | WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH  | FOOT  | 1226                   | 1226                           |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| X7030055              | WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH                                       | FOOT  | 38                     | 38                             |  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X8300001            | LIGHT POLE, SPECIAL   | EACH  | 3                      |                                |  |                     |                                      | 3                              |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X8380084            | BREAKAWAY DEVICE, COUPLING  | EACH  | 12                     |                                |  |                     |                                      | 12                             |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X8620200            | UNINTERRUPTABLE POWER SUPPLY, SPECIAL   | EACH  | 1                      |                                | 1  |                     |                                      |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X8710024            | FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F                               | FOOT  | 5171                   |                                |  |                     | 5171                                 |                                |   |                               |   |  |  |  |  |  |  |  |  |  |  |  |
| * X0370227            | CONCRETE FOUNDATIONS 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 7 FEET (CDOT) | EACH  | 6                      |                                |  |                     |                                      |                                | 6                                       |                               |   |  |  |  |  |  |  |  |  |  |  |  |

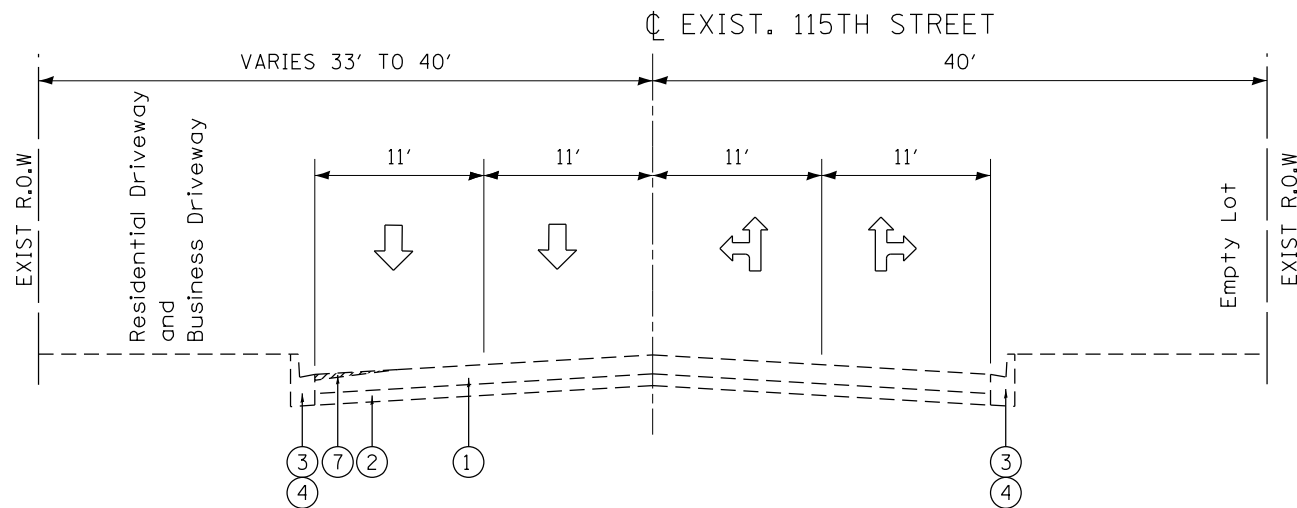
|              |             |            |   |   |                              |  |  |   |           |        |              |           |
|--------------|-------------|------------|---|---|------------------------------|--|--|---|-----------|--------|--------------|-----------|
| FILE NAME :  | USER NAME : | DESIGNED : | REVISED :                               | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUMMARY OF QUANTITIES</b> |  |  | F.A.U. RTE.                                     | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| PROJECT :    | OFFICE :    | CHECKED :  | REVISED :                               |   |                              |  |  | 1583  | 0303-RS&N | COOK   | 97           | 10        |
| PLOT SCALE : | PLOT DATE : | DATE :     | REVISED :                               |   |                              |  |  | CONTRACT NO. 60V52                              |           |        |              |           |
|              |             |            | SCALE: SHEET NO. OF SHEETS STA. TO STA. |   |                              |  |  | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |              |           |

△ 100% STATE \*SPECIALTY ITEMS

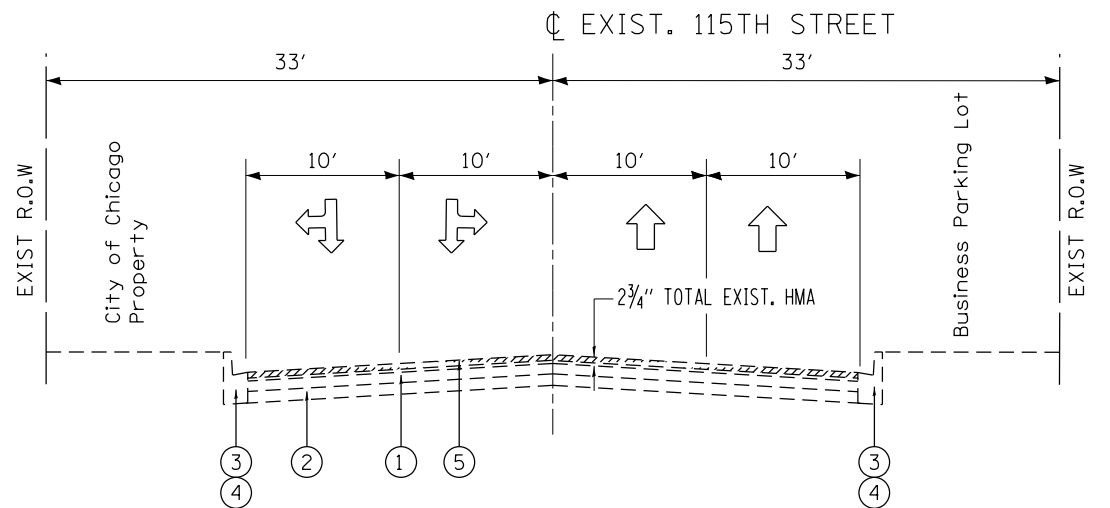
| SUMMARY OF QUANTITIES |  |        | CONSTRUCTION TYPE CODE |                                      |   |                        |  |                                   |   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--|--------|------------------------|--------------------------------------|---|------------------------|--|-----------------------------------|---|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| CODE NO               | ITEM   | UNIT   | URBAN TOTAL QUANTITIES | ROADWAY 0004<br>80% Fed<br>20% State | TRAFFIC SIGNAL 0021<br>80% Fed<br>15% State<br>5% Aisip | EVP 0021<br>100% Aisip | INTER-CONNECT 0021<br>80% Fed<br>20% State | ALSIP LIGHTING 0021<br>100% Aisip | CHICAGO LIGHTING 0021<br>80% Fed<br>20% State | FIRE HYDRANTS 0043<br>100% Aisip | ROADWAY SIDEWALK 0004<br>80% Fed<br>20% Aisip |  |  |  |  |  |  |  |  |  |  |  |  |
| Z0004562              | COMBINATION CONCRETE CURB AND CUTTER REMOVAL AND REPLACEMENT | FOOT   | 310                    | 310                                  |   |                        |  |                                   |   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| * Z0010614            | CLEAN EXISTING ELECTRICAL MANHOLE OR HANDHOLE                | EACH   | 3                      |                                      |   |                        |  |                                   | 3   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| Z0013798              | CONSTRUCTION LAYOUT  | L SUM  | 1                      | 1                                    |   |                        |  |                                   |   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| △ Z0019500            | DRAINAGE STRUCTURES TO BE CLEANED                            | EACH   | 20                     | 20                                   |   |                        |  |                                   |   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| Z0030850              | TEMPORARY INFORMATION SIGNING                                | SO FT  | 102.8                  | 102.8                                |   |                        |  |                                   |   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| * Z0033028            | MAINTENANCE OF LIGHTING SYSTEM                               | CAL MO | 6                      |                                      |   |                        |  | 3                                 | 3   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| * Z0033046            | RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2                    | EACH   | 1                      |                                      |   |                        | 1  |                                   |   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| * Z0073510            | TEMPORARY TRAFFIC SIGNAL TIMING                              | EACH   | 1                      |                                      | 1   |                        |  |                                   |   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| * X0370237            | ELBOW, CONDUIT, STEEL 2", ADJACENT TO EMBEDDED POLE (CDOT)   | EACH   | 1                      |                                      |   |                        |  |                                   | 1   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| * X0370238            | CONDUIT RISER UP POLE, 2" (CDOT)                             | EACH   | 1                      |                                      |   |                        |  |                                   | 1   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| * X0370239            | PVC CONDUIT IN TRENCH, 2" SCHEDULE 40 (CDOT)                 | FOOT   | 135                    |                                      |   |                        |  |                                   | 135   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| * X0370240            | ADDITIONAL ELBOW 2" IN CONCRETE FOUNDATION (CDOT)            | EACH   | 1                      |                                      |   |                        |  |                                   | 1   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |
| * X0370241            | PVC CONDUIT IN TRENCH 2" SCHEDULE 80 (CDOT)                  | FOOT   | 165                    |                                      |   |                        |  |                                   | 165   |                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |

|   |                         |            |           |   |                              |           |      |        |             |         |   |              |           |
|---|-------------------------|------------|-----------|---|------------------------------|-----------|------|--------|-------------|---------|---|--------------|-----------|
| FILE NAME :   | USER NAME : g7120001170 | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUMMARY OF QUANTITIES</b> |           |      |        | F.A.U. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| OFFICE: District 1 Proj. File: P12512-CADD-Design-P12512-01.dwg | PLT SCALE: 1000000 / 1" | CHECKED -  | REVISED - |   | 1583                         | 0303-RS&N | COOK | 87     | 11          |         |   |              |           |
| PLT DATE: 7/19/2015   | DATE -                  | REVISED -  |           |   | CONTRACT NO. 60V52           |           |      |        |             |         |   |              |           |
|   |                         |            |           |   | SCALE:                       | SHEET NO. | OF   | SHEETS | STA.        | TO STA. | FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT |              |           |

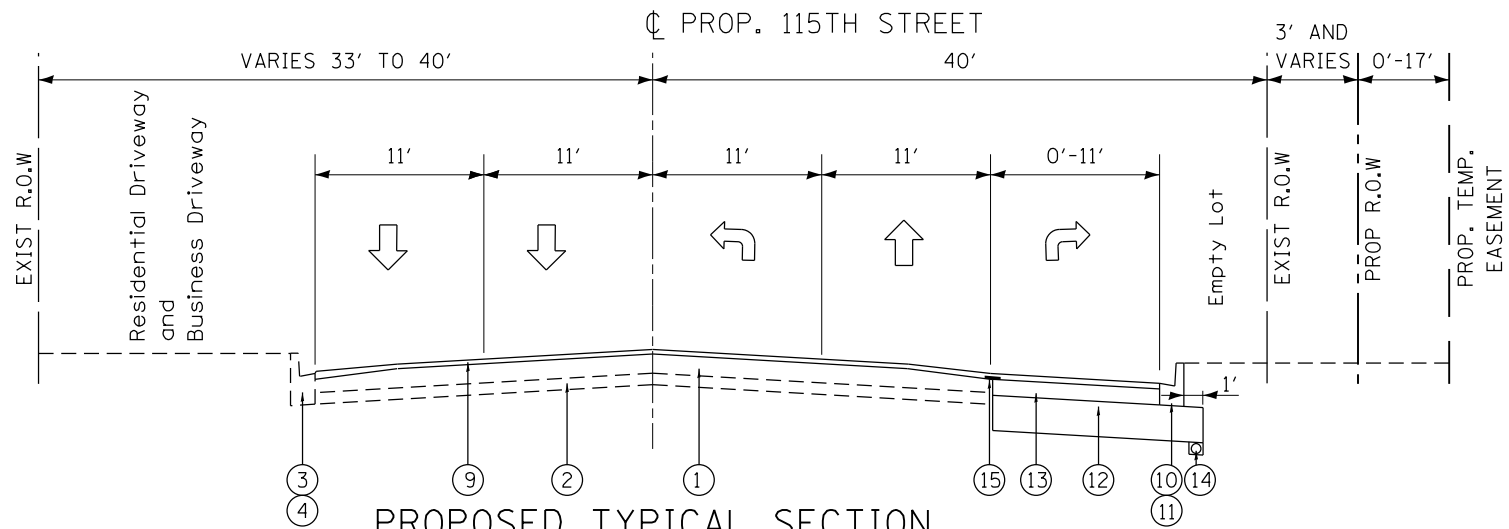
△ 100% STATE      \* SPECIALTY ITEMS



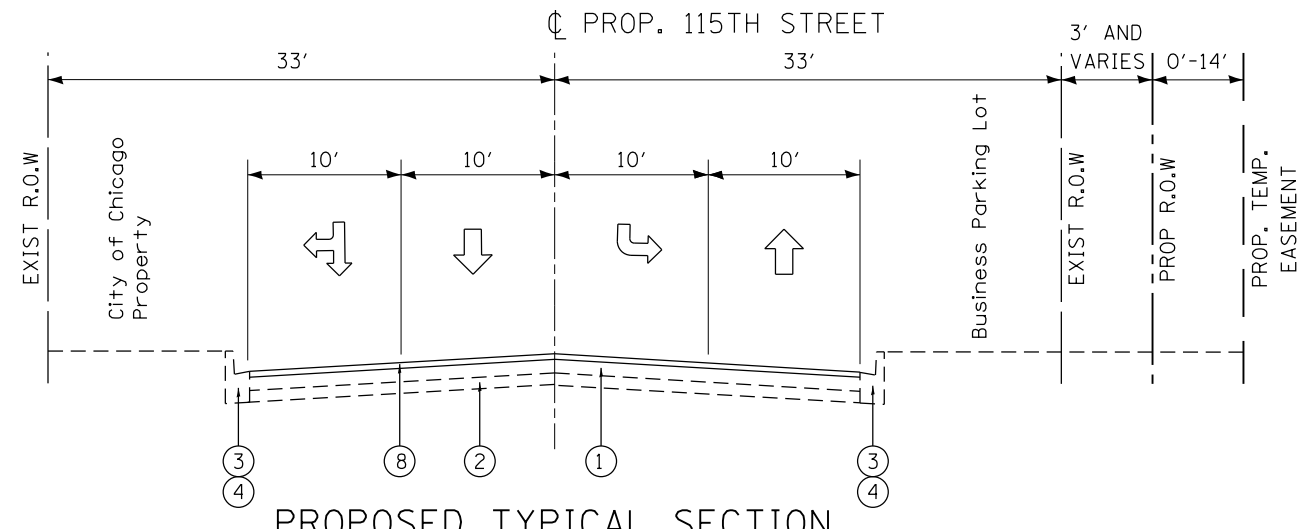
**EXISTING TYPICAL SECTION  
115TH STREET  
WEST LEG - STA. 193+50 TO STA. 199+32.6**



**EXISTING TYPICAL SECTION  
115TH STREET  
EAST LEG - STA. 200+54 TO STA. 206+72**



**PROPOSED TYPICAL SECTION  
115TH STREET  
WEST LEG - STA. 193+50 TO STA. 199+32.6**

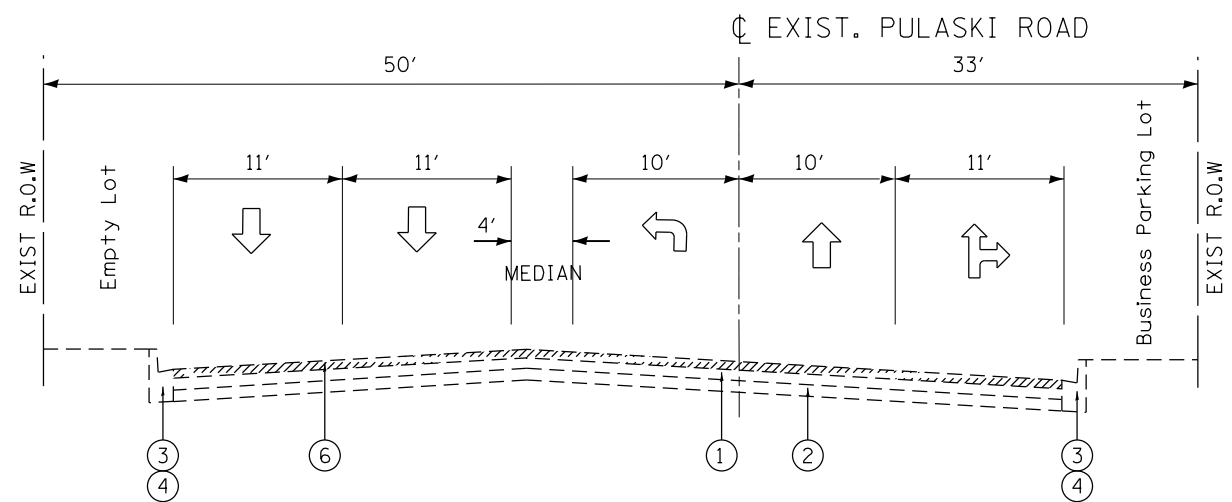


**PROPOSED TYPICAL SECTION  
115TH STREET  
EAST LEG - STA. 200+54 TO STA. 206+72**

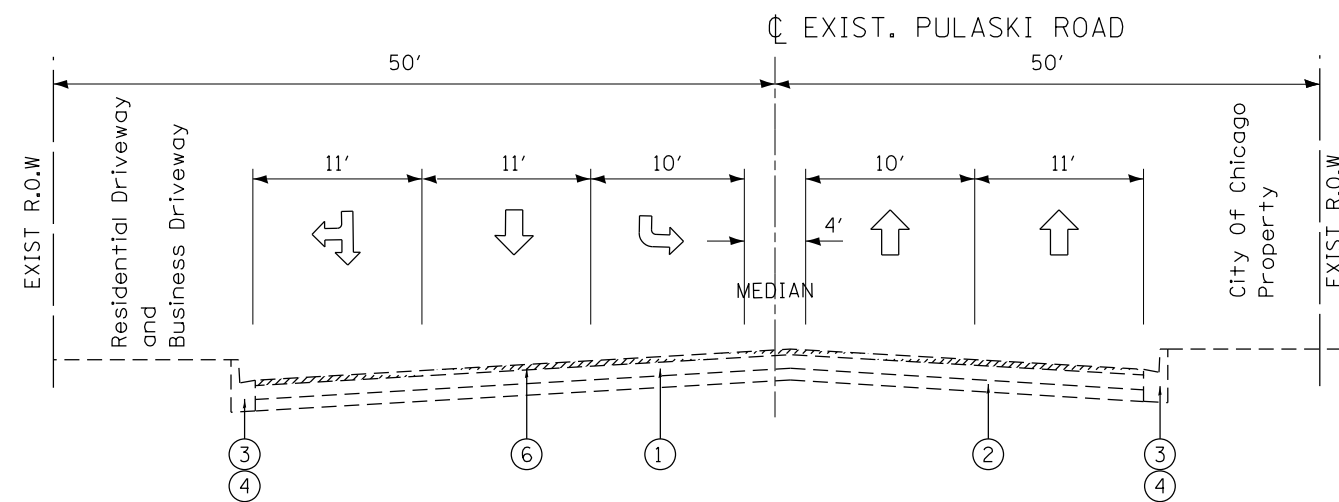
**LEGEND**

- ① EXIST. PCC PAVEMENT, 10"
- ② EXIST. SUB-BASE GRANULAR MATERIAL, TYPE A, 6"
- ③ EXIST. COMB. CURB & GUTTER TYPE B-6.18
- ④ EXIST. COMB. CURB & GUTTER TYPE B-6.12
- ⑤ PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- ⑥ PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- ⑦ PROP. PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (VARIABLE DEPTH)
- ⑧ PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑨ PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 2"
- ⑩ PROP. COMB. CURB & GUTTER TYPE B-6.12
- ⑪ PROP. COMB. CURB & GUTTER TYPE B-6.18
- ⑫ PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑬ PROP. HOT-MIX ASPHALT BASE COURSE, 8 1/4"
- ⑭ PROP. PIPE UNDERDRAIN, 4"
- ⑮ PROP. STRIP REFLECTIVE CRACK CONTROL TREATMENT

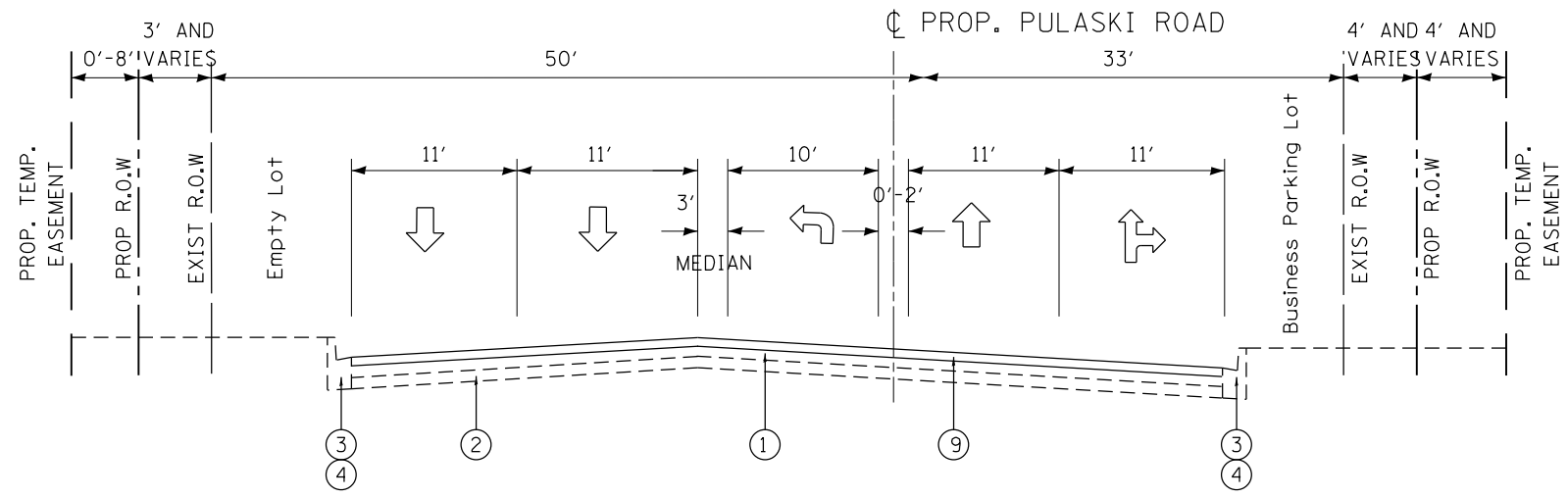
**NOTE:  
CONTRACTOR SHALL PATCH FIRST BEFORE MILLING**



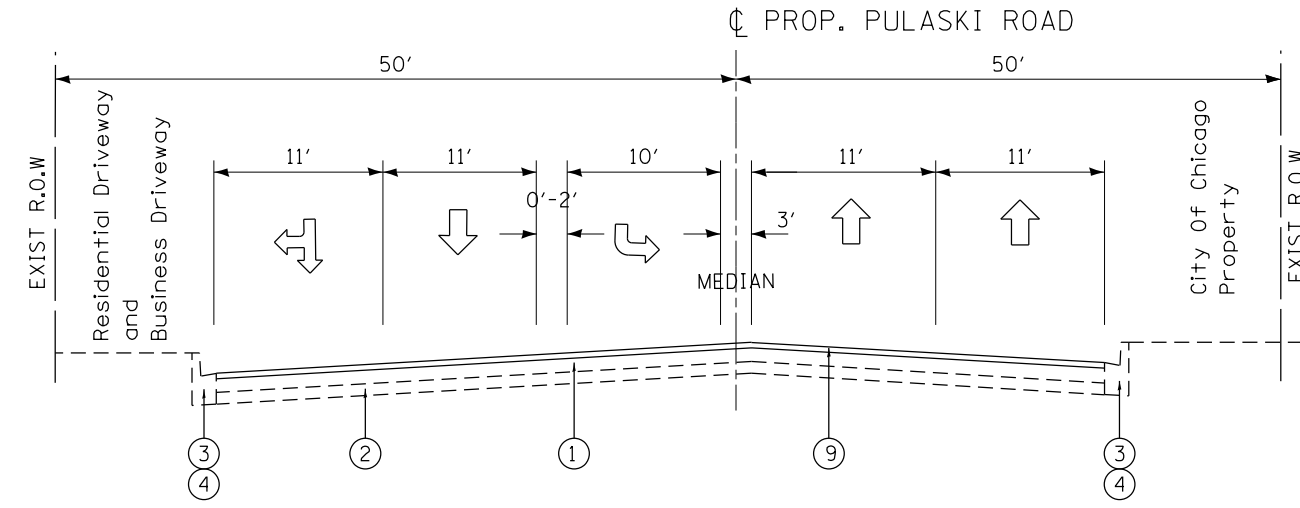
EXISTING TYPICAL SECTION  
PULASKI ROAD  
SOUTH LEG - STA. 495+68 TO STA. 500+00



EXISTING TYPICAL SECTION  
PULASKI ROAD  
NORTH LEG - STA. 500+00 TO STA. 502+63



PROPOSED TYPICAL SECTION  
PULASKI ROAD  
SOUTH LEG - STA. 495+68 TO STA. 500+00



PROPOSED TYPICAL SECTION  
PULASKI ROAD  
NORTH LEG - STA. 500+00 TO STA. 502+63

**LEGEND**

- ① EXIST. PCC PAVEMENT, 10"
- ② EXIST. SUB-BASE GRANULAR MATERIAL, TYPE A, 6"
- ③ EXIST. COMB. CURB & GUTTER TYPE B-6.18
- ④ EXIST. COMB. CURB & GUTTER TYPE B-6.12
- ⑤ PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- ⑥ PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- ⑦ PROP. PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (VARIABLE DEPTH)
- ⑧ PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑨ PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 2"
- ⑩ PROP. COMB. CURB & GUTTER TYPE B-6.12
- ⑪ PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑫ PROP. HOT-MIX ASPHALT BASE COURSE, 8 1/4"
- ⑬ PROP. PIPE UNDERDRAIN, 4"
- ⑭ PROP. STRIP REFLECTIVE CRACK CONTROL TREATMENT

|   |                                  |            |           |   |  |  |  |                    |           |        |              |           |
|---|----------------------------------|------------|-----------|---|--|--|--|--------------------|-----------|--------|--------------|-----------|
| FILE NAME =   | USER NAME = pyrzenowski          | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>115TH STREET AT PULASKI ROAD<br/>TYPICAL SECTIONS</b> |  |  | F.A.U. RTE.        | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI2511\Drawings\Design\PI25112-sht-cover.dgn | PLotted SCALE = 100.0000' / 1in. | CHECKED -  | REVISED - |   |  |  |  | 1583               | 0303-RS&N | COOK   | 87           | 13        |
| Default   | PLOT DATE = 6/23/2015            | DATE -     | REVISED - |   | SCALE: NONE SHEET OF SHEETS STA. TO STA.                 |  |  | CONTRACT NO. 60V52 |           |        |              |           |
| ILLINOIS FED. AID PROJECT   |                                  |            |           |   |  |  |  |                    |           |        |              |           |

115TH ST.

| DRAINAGE STRUCTURES TABLE |         |        |                |     |      |          |              |           |           |           |
|---------------------------|---------|--------|----------------|-----|------|----------|--------------|-----------|-----------|-----------|
| NO.                       | STATION | OFFSET | STRUCTURE TYPE |     | DIA. | FRAME    | TOP OF GRATE | INVERT(N) | INVERT(S) | INVERT(W) |
|                           |         |        | CB             | INL |      |          |              |           |           |           |
| 1                         | 198+81  | 33' RT | TYP. C         |     | 4'   | TY. 1 OL | 597.02       | 591.44    |           |           |
| 2                         | 200+46  | 36' RT | TYP. C         |     | 4'   | TY. 1 OL | 597.25       | 593.25    |           |           |

PULASKI RD.

| DRAINAGE STRUCTURES TABLE |         |        |                |     |      |          |              |           |           |           |
|---------------------------|---------|--------|----------------|-----|------|----------|--------------|-----------|-----------|-----------|
| NO.                       | STATION | OFFSET | STRUCTURE TYPE |     | DIA. | FRAME    | TOP OF GRATE | INVERT(N) | INVERT(S) | INVERT(W) |
|                           |         |        | CB             | INL |      |          |              |           |           |           |
| 3                         | 500+24  | 52' RT | TYP. C         |     | 4'   | TY. 1 OL | 597.15       | 585.01    | 584.91    |           |

| STORM SEWER TABLE |                            |      |      |          |     |            |            |            |            |
|-------------------|----------------------------|------|------|----------|-----|------------|------------|------------|------------|
| NO.               |                            | TYPE | DIA. | LIN. FT. | TB  | INVERT (N) | INVERT (S) | INVERT (E) | INVERT (W) |
|                   |                            |      |      |          |     |            |            |            |            |
| 1                 | PROP. STORM SEWER, CLASS A | 2    | 12"  | 10       | 3.8 | 591.34     | 591.44     |            |            |
| 2                 | PROP. STORM SEWER, CLASS A | 2    | 12"  | 12       | 4.7 | 593.15     | 593.25     |            |            |
| 3                 | PROP. STORM SEWER, CLASS A | 2    | 12"  | 16       | 3.3 | 584.91     | 584.81     |            |            |

EARTHWORK SCHEDULE

| EARTHWORK LOCATION      | 1                          | 2   | 3  | 4                    | 5   |
|-------------------------|----------------------------|---|--|----------------------|---|
|                         | EARTH EXCAVATION (CU. YD.) | EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU. YD.) | TOPSOIL EXCAVATION & PLACEMENT (CU. YD.) | EMBANKMENT (CU. YD.) | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU. YD.) |
| 115TH ST. / PULASKI RD. |                            |   |  |                      |   |
| 197+48.3 - 199+64.7     | 396                        | 337   | 39                                       | 0                    | 337   |
| TOTAL =                 | 396                        | 337   | 39                                       | 0                    | 337   |

NOTE:

- 1 = QUANTITIES FROM EARTHWORK SPREADSHEET
- 2 = (1) \* 0.85
- 3 = ESTIMATED QUANTITIES FROM CROSS-SECTIONS
- 4 = QUANTITIES FROM EARTHWORK SPREADSHEET
- 5 = 2-4
- 6 = FURNISHED EXCAVATION = SHORTAGE (-) 5

NOTE:

A THICKNESS OF 12 INCHES OF TOPSOIL STRIPPING SHALL BE USED FOR TOPSOIL EXCAVATION AND PLACEMENT.

LANDSCAPING SCHEDULE

| LANDSCAPING LOCATION    | 1  | 2                                | 3                                |
|-------------------------|--|----------------------------------|----------------------------------|
|                         | TOPSOIL EXCAVATION AND PLACEMENT (CU. YD.) | AREA OF TOPSOIL NEEDED (CU. YD.) | SODDING, SALT TOLERANT (SQ. YD.) |
| 115TH ST. / PULASKI RD. |  |                                  |                                  |
| 197+48.3 - 199+64.7     | 75   | 39                               | 345                              |
| TOTAL =                 | 75   | 39                               | 345                              |

**HMA MIXTURE REQUIREMENTS**

| MIXTURE TYPE  | AIR VOIDS @ NDES | QUALITY MANAGEMENT PROGRAM (QMP) |
|---|------------------|----------------------------------|
| <b>PAVEMENT WIDENING</b>  |                  |                                  |
| POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX, "F", N90, 2" (IL 9.5 mm)                               | 4% @ 90 GYR      | QCP                              |
| HOT-MIX ASPHALT BASE COURSE, 8 1/4" (HMA BINDER IL-19.0)  | 4% @ 70 GYR      | QC/QA                            |
| <b>PAVEMENT RESURFACING (PULASKI RD &amp; 115TH ST)</b>   |                  |                                  |
| POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX, "F", N90, 1 3/4" (IL 9.5 mm)                           | 4% @ 90 GYR      | QCP                              |
| <b>PAVEMENT DRIVEWAY</b>  |                  |                                  |
| HOT-MIX ASPHALT BASE COURSE, 8" (HMA BINDER IL-19.0)  | 4% @ 70 GYR      | QC/QA                            |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL 9.5MM)                                       | 4% @ 50 GYR      | QC/QA                            |
| <b>PAVEMENT PATCHING</b>  |                  |                                  |
| CLASS D PATCHES (HMA BINDER IL-19mm)  | 4% @ 70 GYR      | QC/QA                            |
| HMA REPLACEMENT OVER PATCHES, 2 3/4" (HMA BINDER IL-19mm)   | 4% @ 70 GYR      | QC/QA                            |
| QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP) |                  |                                  |

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

**BENCHMARK #1**

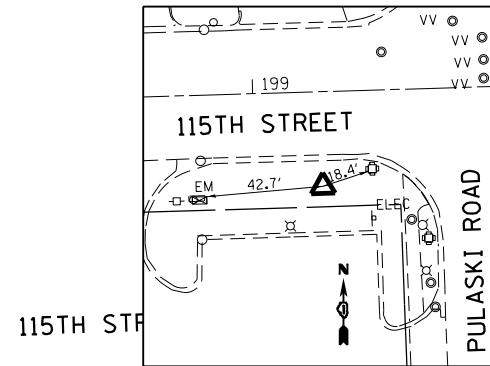
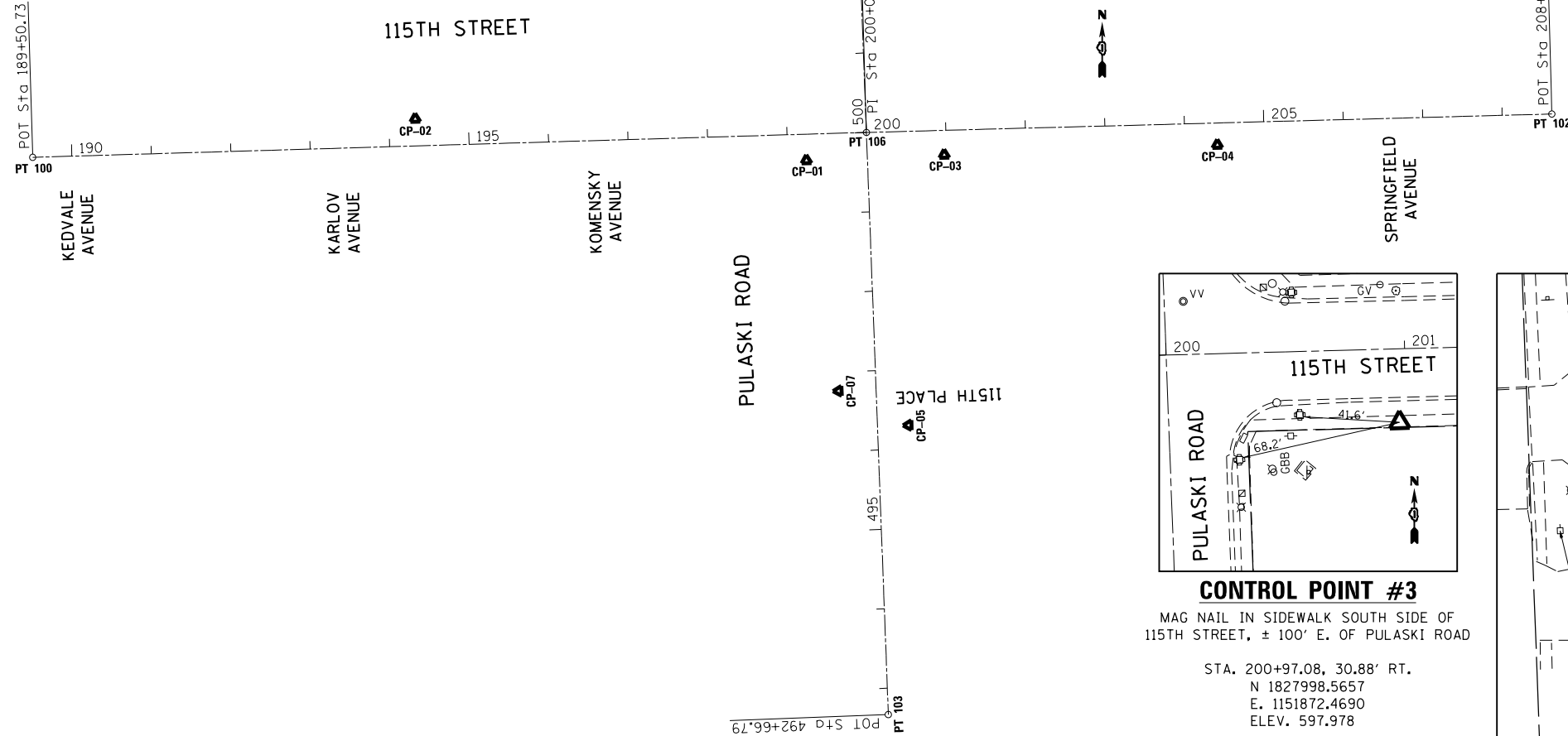
ELEV. 598.045

"X" CUT IN SOUTHEAST BOLT OF TRAFFIC SIGNAL IN NORTHWEST CORNER OF 115TH STREET & KARLOV AVENUE

**BENCHMARK #2**

ELEV. 597.889

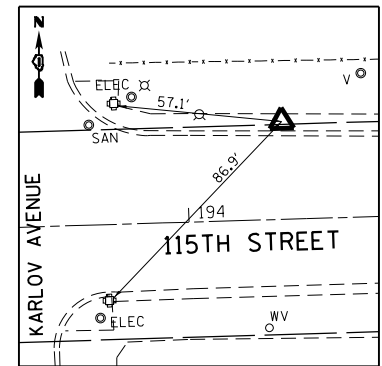
"X" CUT IN SOUTHEAST CORNER OF CONC. BASE OF TRAFFIC SIGNAL IN NORTHWEST CORNER OF 115TH STREET & PULASKI ROAD



**CONTROL POINT #1**

MAG NAIL IN SIDEWALK CORNER 115TH STREET AND PULASKI ROAD

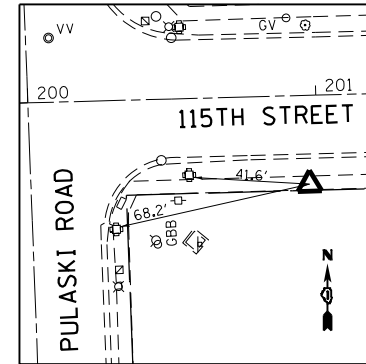
STA. 199+23.48, 32.94' RT.  
N 1827991.6102  
E. 1151699.0938  
ELEV. 597.549



**CONTROL POINT #2**

"X" IN SIDEWALK ON NORTH SIDE OF 115TH STREET (WEST) EAST OF ENTRANCE TO HIGHSCHOOL

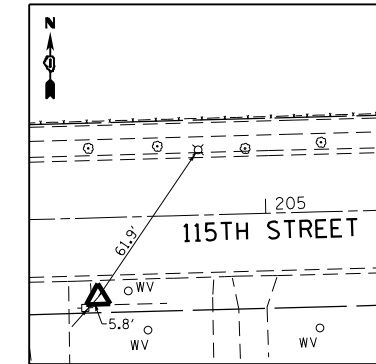
STA. 194+33.20, 34.03' LT.  
N 1828043.8764  
E. 1151207.0328  
ELEV. 597.746



**CONTROL POINT #3**

MAG NAIL IN SIDEWALK SOUTH SIDE OF 115TH STREET, ± 100' E. OF PULASKI ROAD

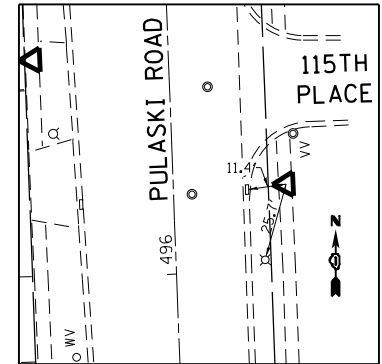
STA. 200+97.08, 30.88' RT.  
N 1827998.5657  
E. 1151872.4690  
ELEV. 597.978



**CONTROL POINT #4**

MAG NAIL IN PRIVATE ENTRANCE SOUTH SIDE OF 115TH STREET (EAST)

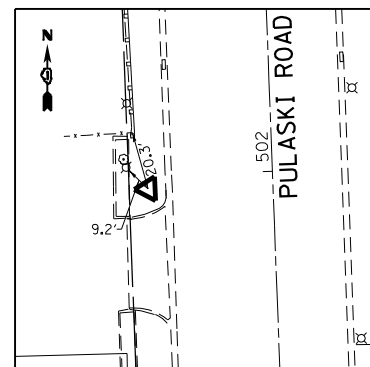
STA. 204+40.98, 27.61' RT.  
N 1828011.0698  
E. 1152216.1590  
ELEV. 606.427



**CONTROL POINT #5**

"X" IN SIDEWALK EAST SIDE OF PULASKI ROAD (SOUTH)

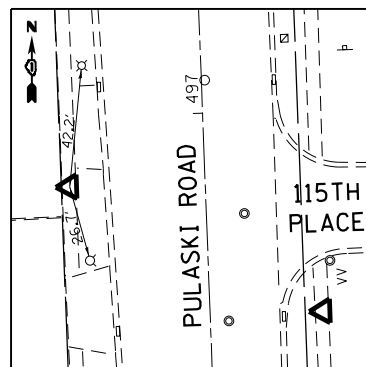
STA. 496+29.75, 39.21' RT.  
N 1827658.3090  
E. 1151827.7095  
ELEV. 596.836



**CONTROL POINT #6**

MAG NAIL ON WEST SIDE OF PULASKI ROAD, ± 200' NORTH OF 115TH STREET

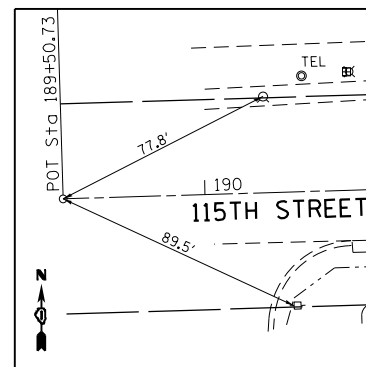
STA. 501+95.46, 43.36' LT.  
N 1828220.5151  
E. 1151723.9215  
ELEV. 598.708



**CONTROL POINT #7**

"X" IN SIDEWALK WEST SIDE OF PULASKI ROAD, ± 300' SOUTH OF 115TH STREET

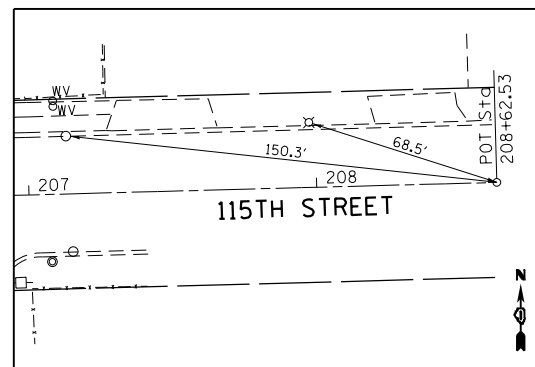
STA. 496+76.14, 47.08' LT.  
N 1827701.4227  
E. 1151739.7300  
ELEV. 596.794



**POT #100**

MAG NAIL IN C OF 115TH STREET (WEST)

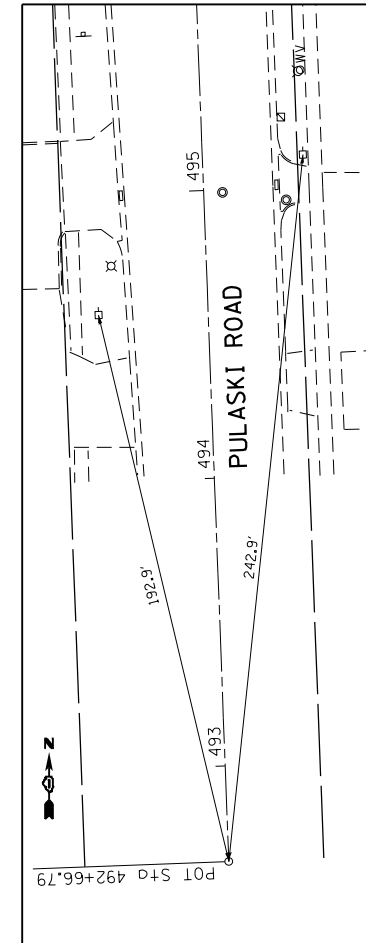
STA. 189+50.73, 0.00' OFFSET  
N 1827995.4315  
E. 1150725.7976  
ELEV. 597.874



**POT #102**

MAG NAIL IN C OF 115TH STREET (EAST)

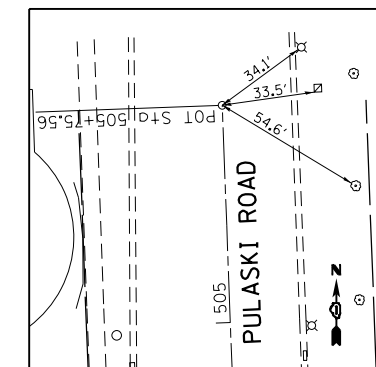
STA. 208+62.53, 0.00' OFFSET  
N 1828050.0029  
E. 1152636.8177  
ELEV. 614.803



**POT #103**

MAG NAIL IN C OF PULASKI ROAD (SOUTH)

STA. 492+66.79, 0.00' OFFSET  
N 1827294.1333  
E. 1151802.1711  
ELEV. 595.249



**POT #104**

MAG NAIL IN C OF PULASKI ROAD (NORTH)

STA. 505+75.56, 0.00' OFFSET  
N 1828601.9793  
E. 1151752.9582  
ELEV. 602.976



**POT #106**

MAG NAIL IN C OF 115TH STREET & C OF PULASKI ROAD

STA. 200+00.00 (115TH STREET) =  
STA. 500+00.00 (PULASKI ROAD)  
N 1828026.8222  
E. 1151774.6016  
ELEV. 597.838

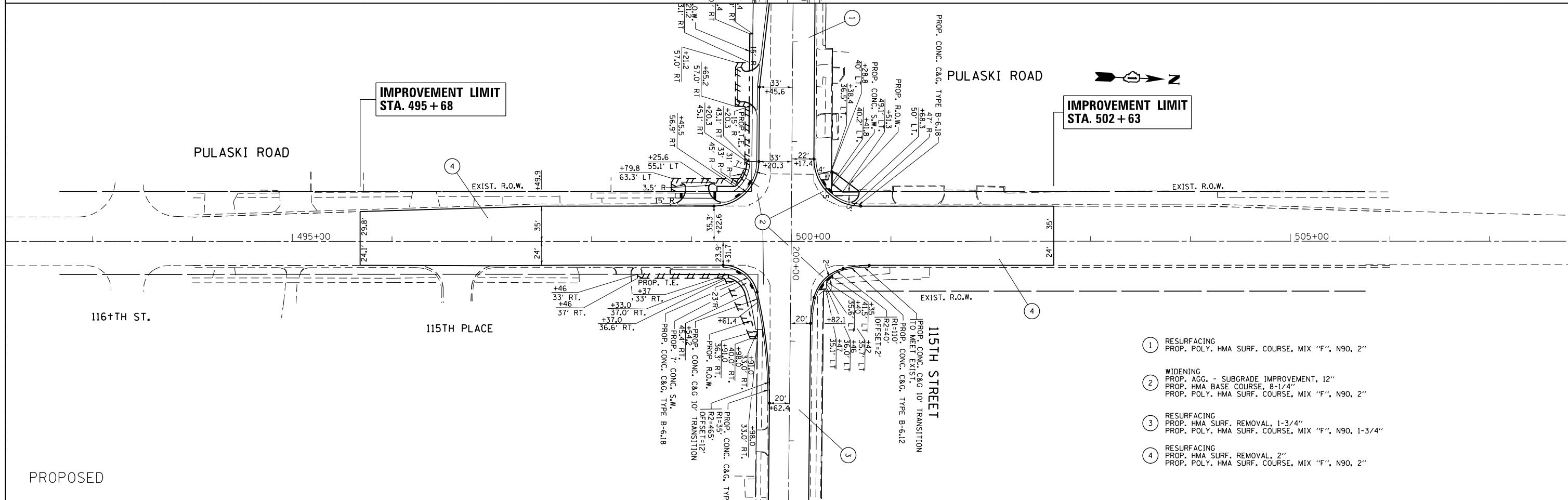
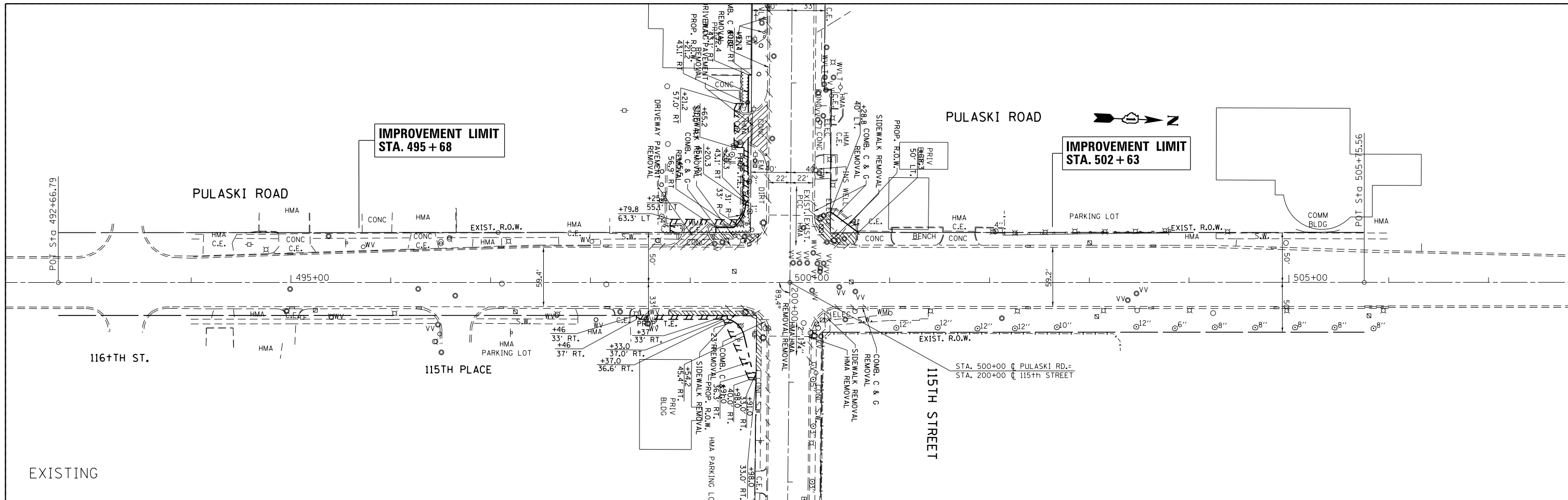
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|--|---------------------------|------------|-----------|
| FILE NAME =  | USER NAME = pyzzenowskirb | DESIGNED - | REVISED - |
| p:\11084EBID\INTEG\111nois.gov\PIWID\Documents\DOT Offices\District 1\Projects\PI2511\Drawings\PI25112-sht-cover.dgn |                           | CHECKED -  | REVISED - |
| Default  | PLOT DATE = 7/10/2015     | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARKS  
115TH STREET AT PULASKI ROAD**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

| F.A.U. RTE.        | SECTION   | COUNTY | TOTAL SHEETS              | SHEET NO. |
|--------------------|-----------|--------|---------------------------|-----------|
| 1583               | 0303-R5&N | COOK   | 87                        | 15        |
| CONTRACT NO. 60V52 |           |        | ILLINOIS FED. AID PROJECT |           |

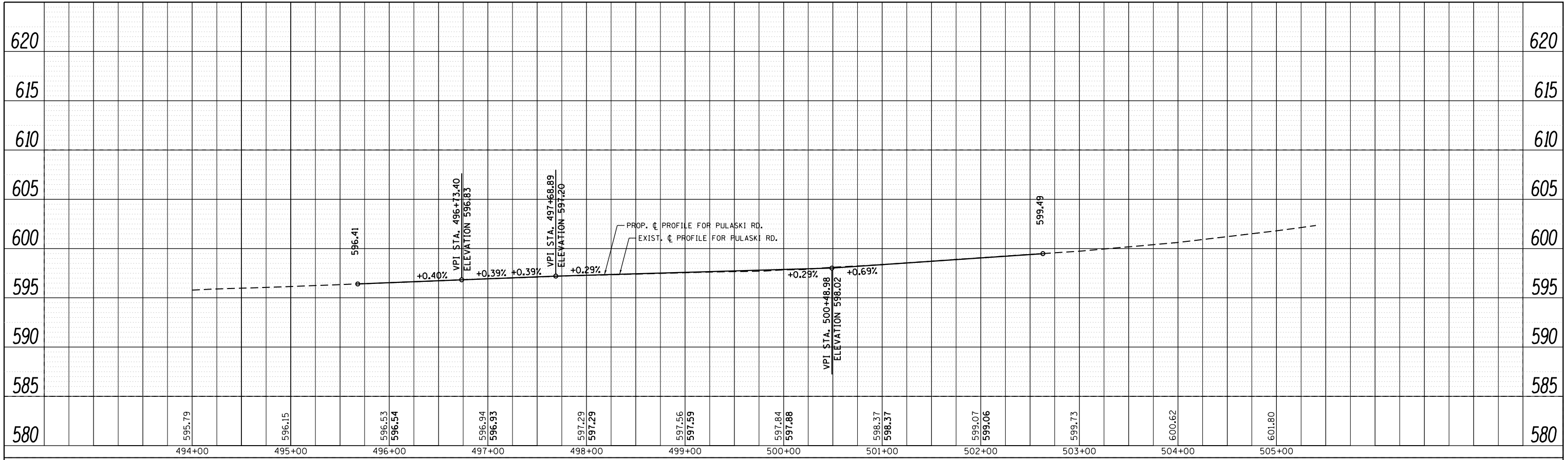


- ① RESURFACING  
PROP. POLY. HMA SURF. COURSE, MIX "F", N90, 2"
- ② WIDENING  
PROP. AGG. - SUBGRADE IMPROVEMENT, 12"  
PROP. HMA BASE COURSE, 8-1/4"  
PROP. POLY. HMA SURF. COURSE, MIX "F", N90, 2"
- ③ RESURFACING  
PROP. HMA SURF. REMOVAL, 1-3/4"  
PROP. POLY. HMA SURF. COURSE, MIX "F", N90, 1-3/4"
- ④ RESURFACING  
PROP. HMA SURF. REMOVAL, 2"  
PROP. POLY. HMA SURF. COURSE, MIX "F", N90, 2"

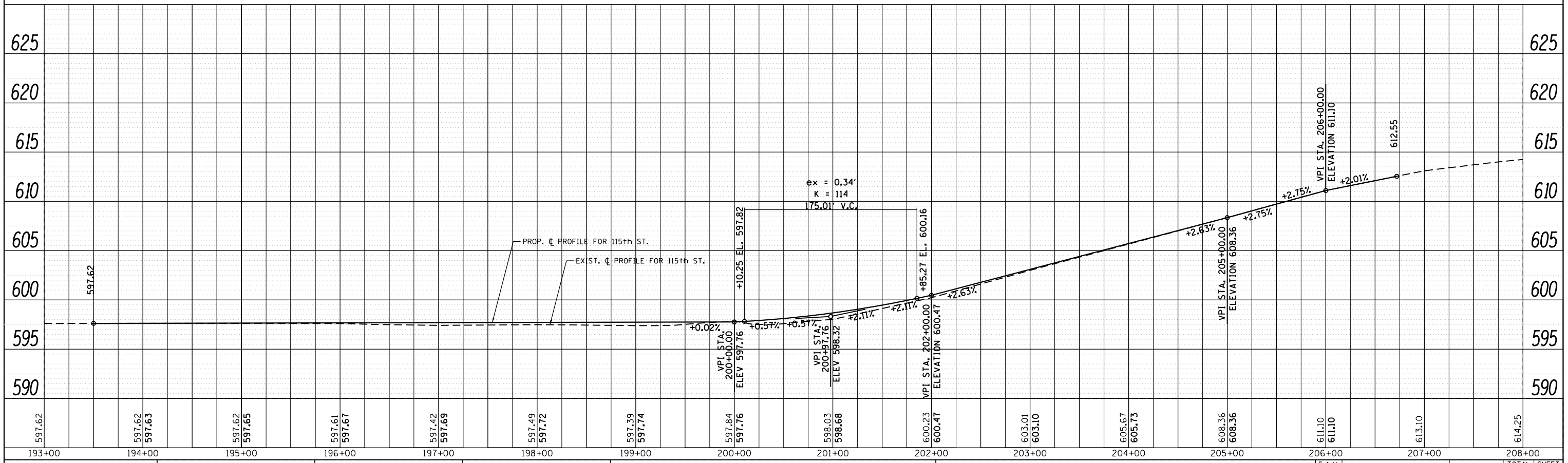
|  |                              |            |           |   |  |           |      |    |                           |         |        |              |           |
|--|------------------------------|------------|-----------|---|--|-----------|------|----|---------------------------|---------|--------|--------------|-----------|
| FILE NAME =  | USER NAME = pyrzenowski      | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EXISTING AND PROPOSED ROADWAY PLAN<br/>115TH STREET AT PULASKI ROAD</b> |           |      |    | F.A.U. RTE.               | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI2511\Drawings\Design\PI25112-sht-cover.dgn |                              | CHECKED -  | REVISED - |   | 1583   | 0303-RS&N | COOK | 87 | 16                        |         |        |              |           |
| Default  | PLOT SCALE = 100.0000' / in. | DATE -     | REVISED - |   | SCALE: 1" = 50'  |           |      |    | CONTRACT NO. 60V52        |         |        |              |           |
|  | PLOT DATE = 7/10/2015        |            |           |   | SHEET OF SHEETS STA. TO STA.   |           |      |    | ILLINOIS FED. AID PROJECT |         |        |              |           |



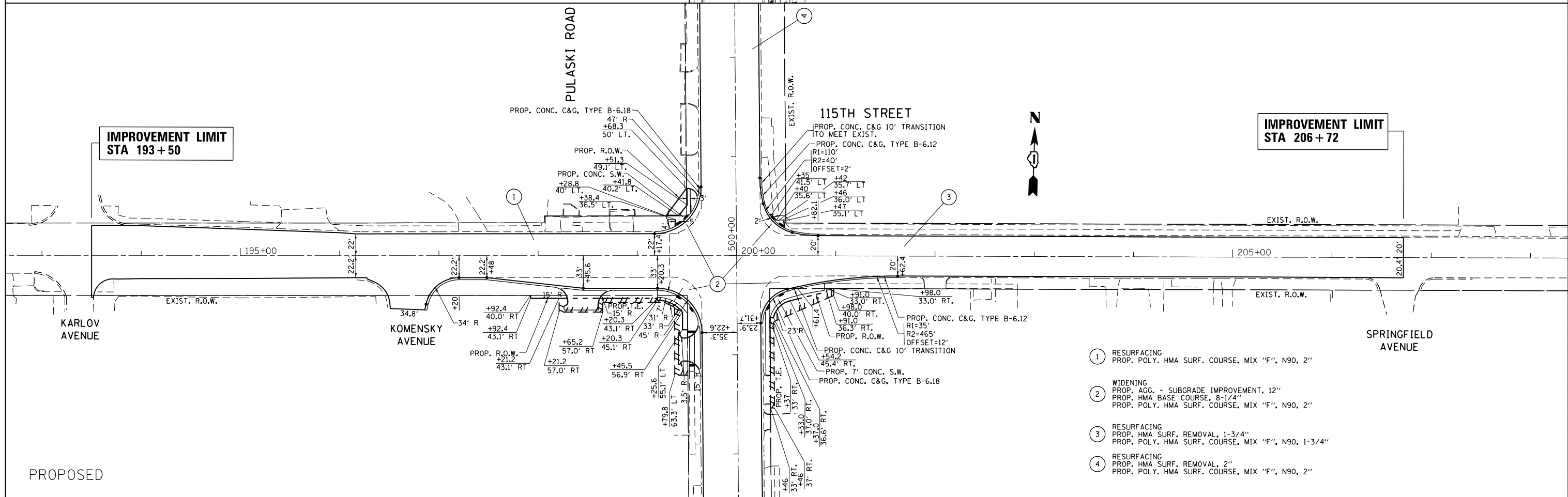
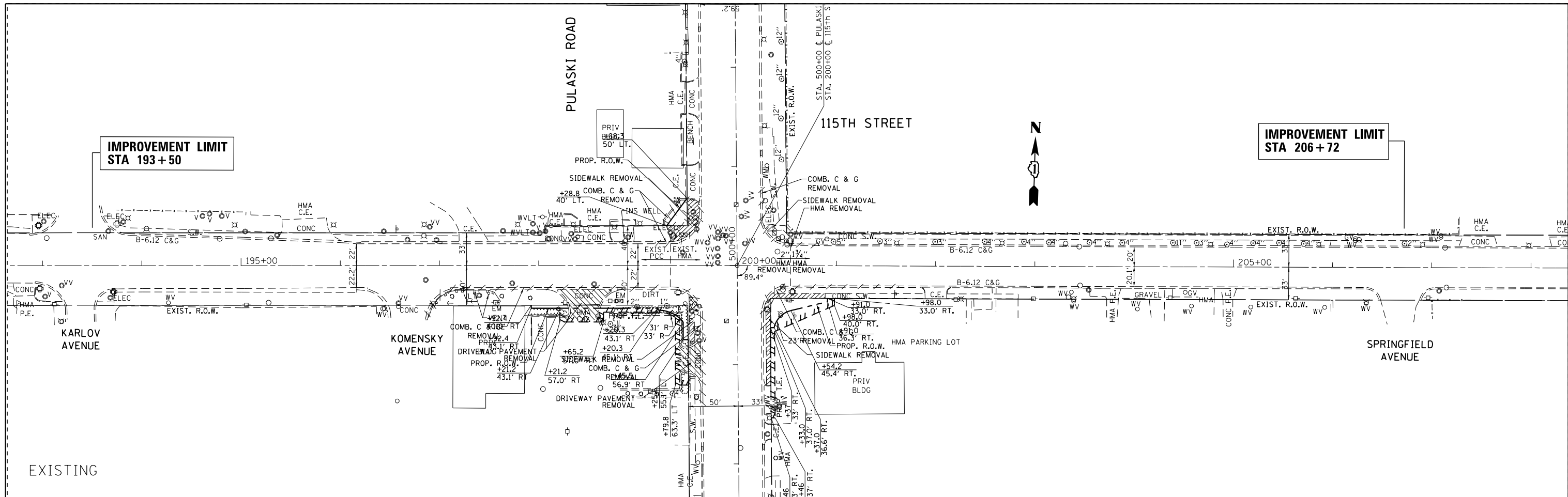
|      |           |    |      |
|------|-----------|----|------|
| PLAN | SURVEYED  | BY | DATE |
|      | PLOTTED   |    |      |
|      | NOTE BOOK |    |      |
|      | NO.       |    |      |
|      | CHECKED   |    |      |
|      | FILE NAME |    |      |



|         |                |    |      |
|---------|----------------|----|------|
| PROFILE | SURVEYED       | BY | DATE |
|         | PLOTTED        |    |      |
|         | GRADES CHECKED |    |      |
|         | NOTE BOOK      |    |      |
|         | NO.            |    |      |
|         | STRUCTURE      |    |      |
|         | NOTATION       |    |      |
|         | CHKD           |    |      |

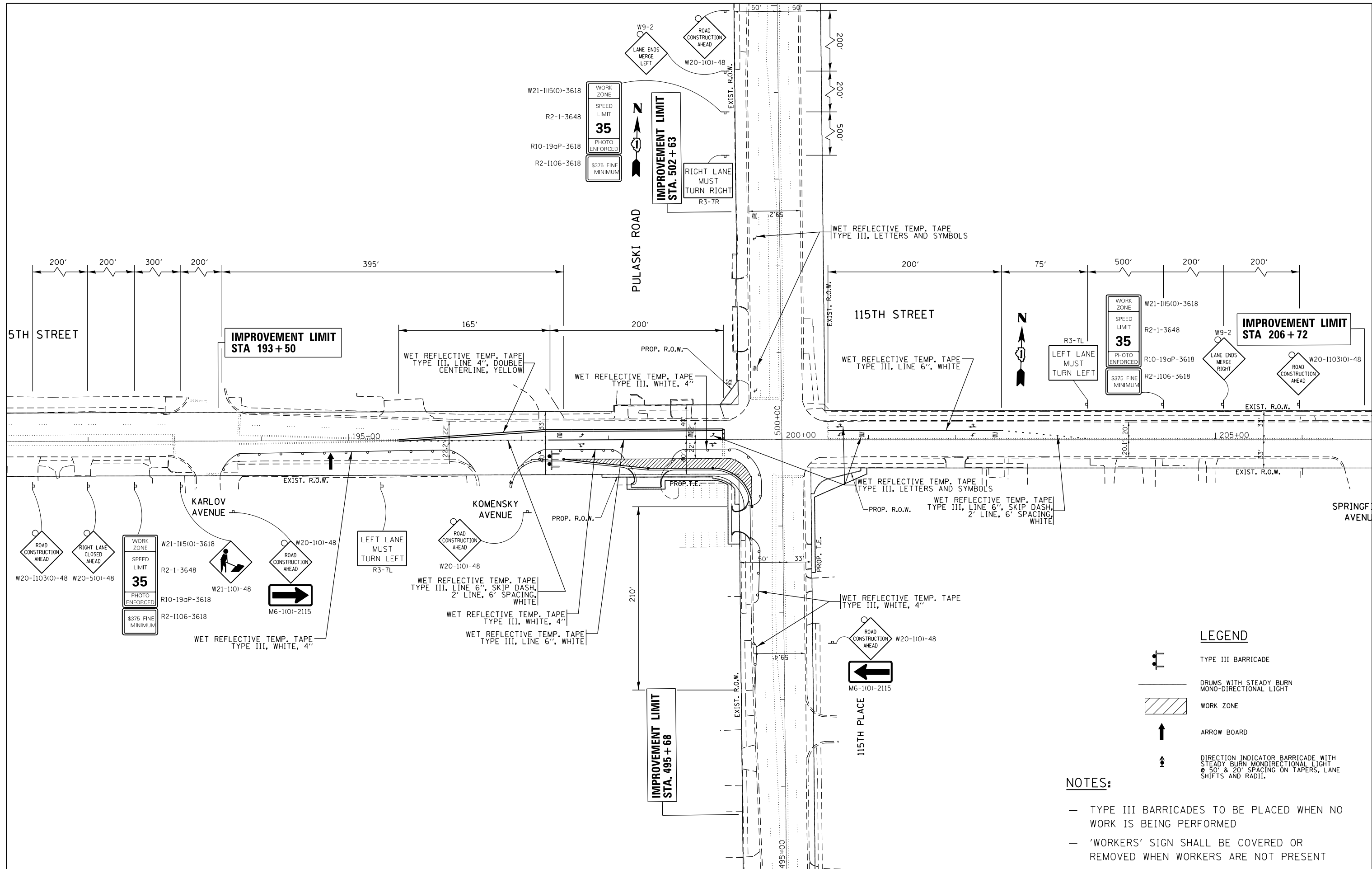


|   |                           |            |           |   |   |           |      |    |                           |         |        |              |           |
|---|---------------------------|------------|-----------|---|---|-----------|------|----|---------------------------|---------|--------|--------------|-----------|
| FILE NAME =   | USER NAME = pyraznowskirb | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EXISTING AND PROPOSED ROADWAY PROFILE<br/>115TH STREET AT PULASKI ROAD</b> |           |      |    | F.A.U. R.E.               | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| p:\1\IL084EBIDINTEG.allinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-sht-cover.dgn |                           | DRAWN      | REVISED - |   | 1583  | 0303-RS&N | COOK | 87 | 17                        |         |        |              |           |
| PLOT SCALE = 100.0000' / in.  |                           | CHECKED -  | REVISED - |   | SCALE: 1" = 50'   |           |      |    | CONTRACT NO. 60V52        |         |        |              |           |
| PLOT DATE = 7/10/2015   |                           | DATE -     | REVISED - |   | SHEET OF SHEETS STA. TO STA.  |           |      |    | ILLINOIS FED. AID PROJECT |         |        |              |           |








- ① RESURFACING  
PROP. POLY. HMA SURF. COURSE, MIX "F", N90, 2"
- ② WIDENING  
PROP. AGG. - SUBGRADE IMPROVEMENT, 12"  
PROP. HMA BASE COURSE, 8-1/4"  
PROP. POLY. HMA SURF. COURSE, MIX "F", N90, 2"
- ③ RESURFACING  
PROP. HMA SURF. REMOVAL, 1-3/4"  
PROP. POLY. HMA SURF. COURSE, MIX "F", N90, 1-3/4"
- ④ RESURFACING  
PROP. HMA SURF. REMOVAL, 2"  
PROP. POLY. HMA SURF. COURSE, MIX "F", N90, 2"

|   |                              |            |           |   |  |           |      |    |                           |         |        |              |           |
|---|------------------------------|------------|-----------|---|--|-----------|------|----|---------------------------|---------|--------|--------------|-----------|
| FILE NAME =   | USER NAME = pyrzenowski      | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EXISTING AND PROPOSED ROADWAY PLAN<br/>115TH STREET AT PULASKI ROAD</b> |           |      |    | F.A.U. R.E.               | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\1\084EBID\INTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI2511\Drawings\Design\PI25112-sht-cover.dgn |                              | CHECKED -  | REVISED - |   | 1583   | 0303-RS&N | COOK | 87 | 18                        |         |        |              |           |
| Default   | PLOT SCALE = 100.0000' / in. | DATE -     | REVISED - |   | SCALE: 1" = 50'  |           |      |    | CONTRACT NO. 60V52        |         |        |              |           |
|   | PLOT DATE = 7/10/2015        |            |           |   | SHEET OF SHEETS STA. TO STA.   |           |      |    | ILLINOIS FED. AID PROJECT |         |        |              |           |



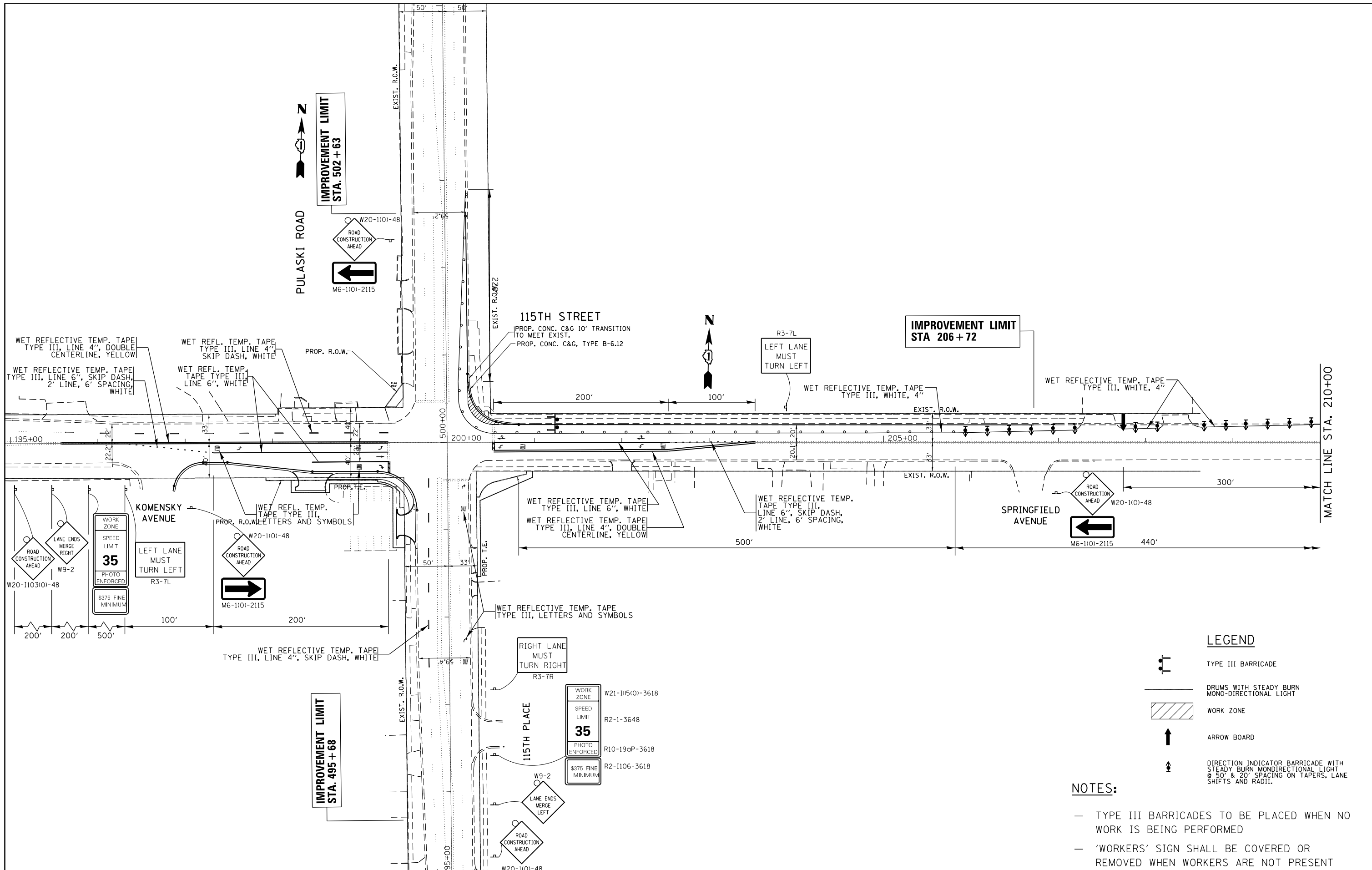
**LEGEND**

-  TYPE III BARRICADE
-  DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT
-  WORK ZONE
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT @ 50' & 20' SPACING ON TAPERS, LANE SHIFTS AND RADII.






**NOTES:**

- TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED
- 'WORKERS' SIGN SHALL BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT

|             |                           |            |           |   |   |                           |           |              |              |           |  |
|-------------|---------------------------|------------|-----------|---|---|---------------------------|-----------|--------------|--------------|-----------|--|
| FILE NAME = | USER NAME = pyzzenowskirb | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>STAGE I<br/>115TH STREET AT PULASKI ROAD</b> | F.A.U. RTE.               | SECTION   | COUNTY       | TOTAL SHEETS | SHEET NO. |  |
|             |                           |            |           |   |   | 1583                      | 0303-RS&N | COOK         | 87           | 19        |  |
|             |                           |            |           |   |   | <b>CONTRACT NO. 60V52</b> |           |              |              |           |  |
|             |                           |            |           |   |   | ILLINOIS FED. AID PROJECT |           |              |              |           |  |
|             |                           |            |           | SCALE: 1"=50'   |   | SHEET OF SHEETS           |           | STA. TO STA. |              |           |  |



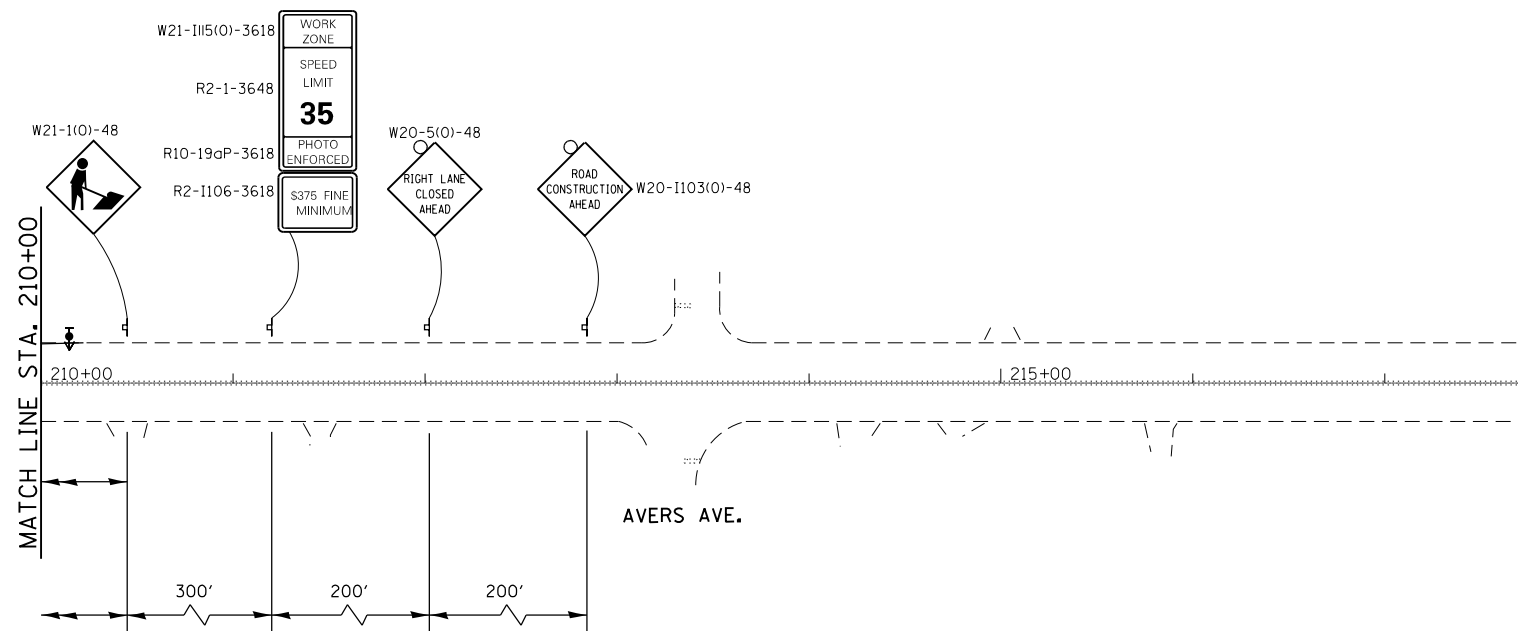
**LEGEND**

-  TYPE III BARRICADE
-  DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT
-  WORK ZONE
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT @ 50' & 20' SPACING ON TAPERS, LANE SHIFTS AND RADII.






**NOTES:**

- TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED
- 'WORKERS' SIGN SHALL BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT

|   |                              |            |           |   |  |           |        |      |             |         |        |              |           |
|---|------------------------------|------------|-----------|---|--|-----------|--------|------|-------------|---------|--------|--------------|-----------|
| FILE NAME =   | USER NAME = pyrzezowski      | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>STAGE II<br/>115TH STREET AT PULASKI ROAD</b> |           |        |      | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\11084EBIDINTEG.111nois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-sht-cover.dgn |                              | CHECKED -  | REVISED - |   | 1583   | 0303-RS&N | COOK   | 87   | 20          |         |        |              |           |
| Default   | PLOT SCALE = 100.0000' / in. | DATE -     | REVISED - |   | CONTRACT NO. 60V52                               |           |        |      |             |         |        |              |           |
|   | PLOT DATE = 6/29/2015        |            |           |   | ILLINOIS FED. AID PROJECT                        |           |        |      |             |         |        |              |           |
|   |                              |            |           | SCALE: 1"=50'   | SHEET  | OF        | SHEETS | STA. | TO          | STA.    |        |              |           |



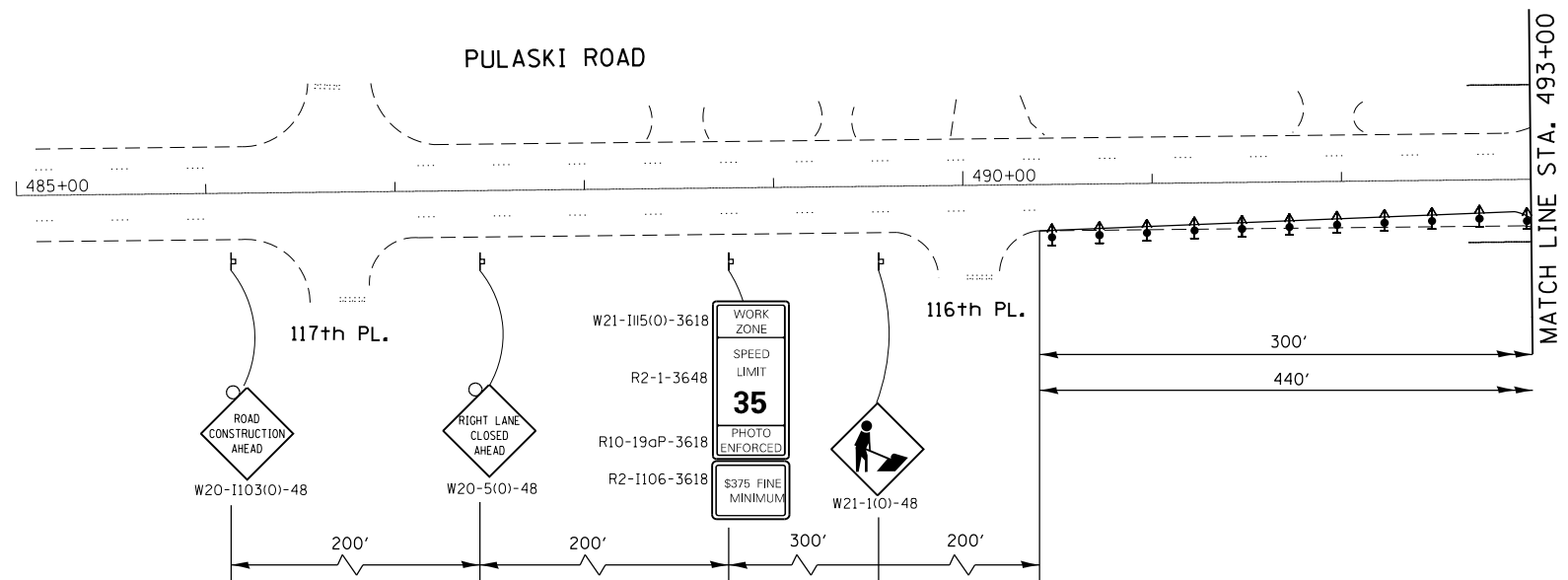
**LEGEND**

-  TYPE III BARRICADE
-  DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT
-  WORK ZONE
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT @ 50' & 20' SPACING ON TAPERS, LANE SHIFTS AND RADII.






**NOTES:**

- TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED
- 'WORKERS' SIGN SHALL BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT

|  |                              |            |           |   |  |           |      |        |             |         |        |                           |           |
|--|------------------------------|------------|-----------|---|--|-----------|------|--------|-------------|---------|--------|---------------------------|-----------|
| FILE NAME =  | USER NAME = pyrzenowski      | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>STAGE II<br/>115TH STREET AT PULASKI ROAD</b> |           |      |        | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS              | SHEET NO. |
| pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\P125112\Drawings\Design\P125112-shit-cover.dgn |                              | CHECKED -  | REVISED - |   | 1583   | 0303-RS&N | COOK | 87     | 21          |         |        |                           |           |
| Default  | PLOT SCALE = 100.0000' / in. | DATE -     | REVISED - |   | CONTRACT NO. 60V52                               |           |      |        |             |         |        |                           |           |
|  | PLOT DATE = 6/29/2015        |            |           |   | SCALE: 1"=50'                                    | SHEET     | OF   | SHEETS | STA.        | TO      | STA.   | ILLINOIS FED. AID PROJECT |           |



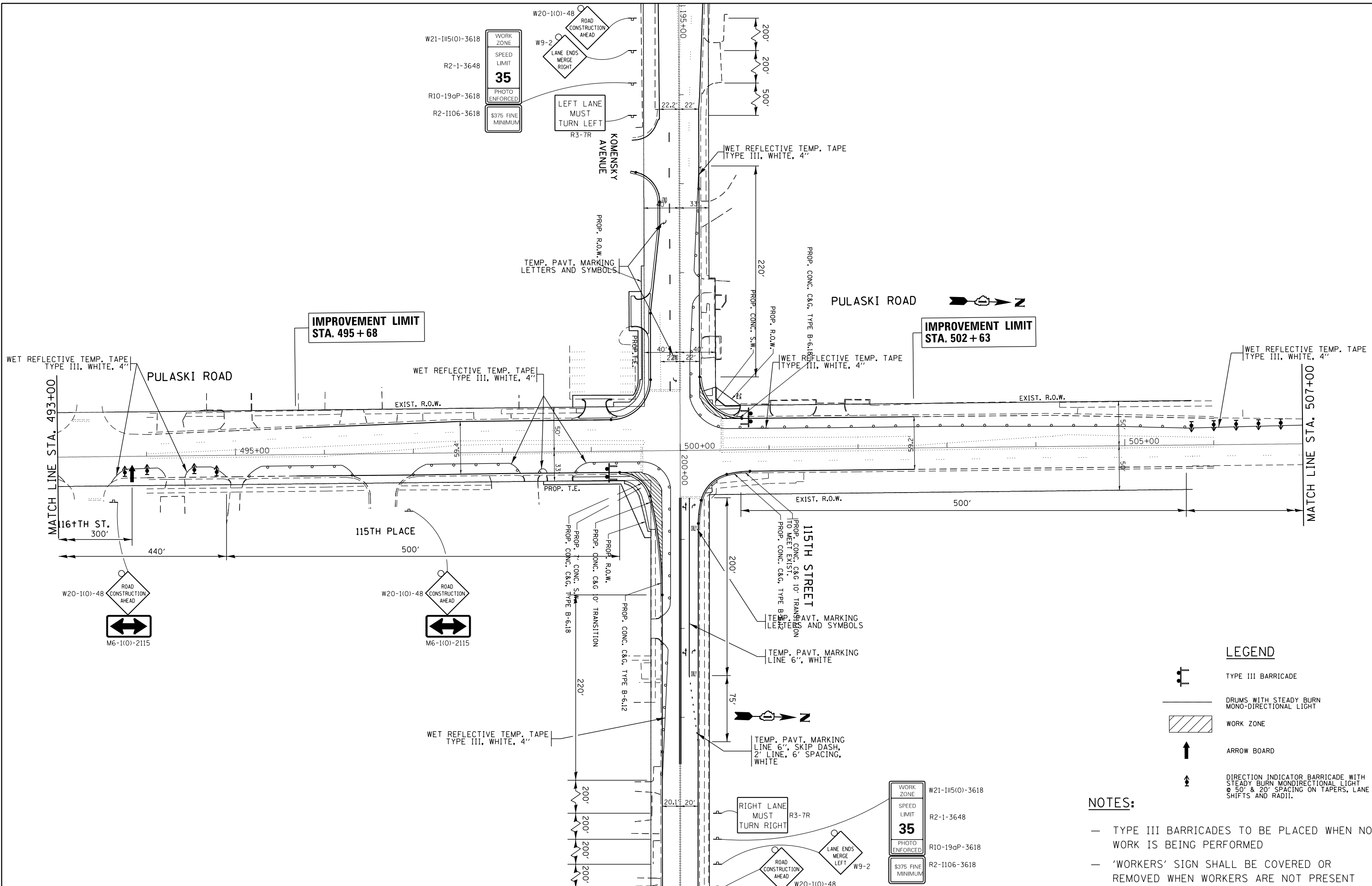
**LEGEND**

-  TYPE III BARRICADE
-  DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT
-  WORK ZONE
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT @ 50' & 20' SPACING ON TAPERS, LANE SHIFTS AND RADII.






**NOTES:**

- TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED
- 'WORKERS' SIGN SHALL BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT

|  |                              |            |           |   |   |           |      |        |                           |         |        |                 |              |
|--|------------------------------|------------|-----------|---|---|-----------|------|--------|---------------------------|---------|--------|-----------------|--------------|
| FILE NAME =  | USER NAME = pyzenowskirb     | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>STAGE III<br/>115TH STREET AT PULASKI ROAD</b> |           |      |        | F.A.U.<br>RTE.            | SECTION | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
| pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\P125112\Drawings\Design\P125112-shit-cover.dgn |                              | CHECKED -  | REVISED - |   | 1583  | 0303-RS&N | COOK | 87     | 22                        |         |        |                 |              |
| Default  | PLOT SCALE = 100.0000' / in. | DATE -     | REVISED - |   | CONTRACT NO. 60V52                                |           |      |        | ILLINOIS FED. AID PROJECT |         |        |                 |              |
|  | PLOT DATE = 6/29/2015        |            |           |   | SCALE: 1"=50'                                     | SHEET     | OF   | SHEETS | STA.                      | TO      | STA.   |                 |              |



**LEGEND**

-  TYPE III BARRICADE
-  DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT
-  WORK ZONE
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT @ 50' & 20' SPACING ON TAPERS, LANE SHIFTS AND RADII.

**NOTES:**

- TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED
- 'WORKERS' SIGN SHALL BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT

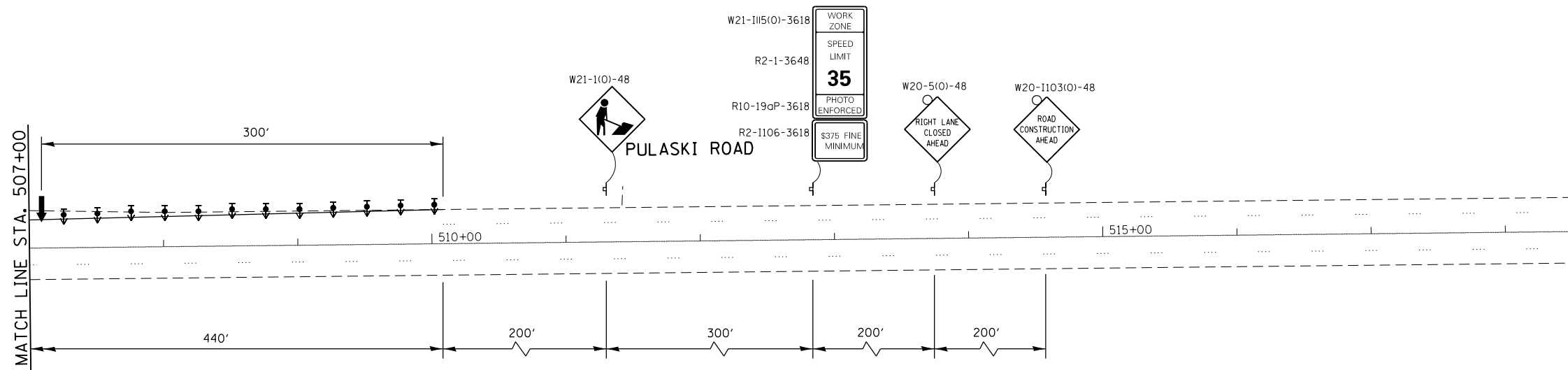
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|---|------------------------------|------------|-----------|
| FILE NAME =   | USER NAME = pyzzenowskirb    | DESIGNED - | REVISED - |
| pw:\11084EBIDINTEG.111nois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-sht-cover.dgn |                              | REVISED -  | REVISED - |
| Default   | PLOT SCALE = 100.0000' / in. | CHECKED -  | REVISED - |
|   | PLOT DATE = 6/29/2015        | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**






**STAGE III  
115TH STREET AT PULASKI ROAD**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

|                           |           |        |                    |           |
|---------------------------|-----------|--------|--------------------|-----------|
| F.A.U. RTE.               | SECTION   | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 1583                      | 0303-RS&N | COOK   | 87                 | 23        |
|                           |           |        | CONTRACT NO. 60V52 |           |
| ILLINOIS FED. AID PROJECT |           |        |                    |           |



**LEGEND**

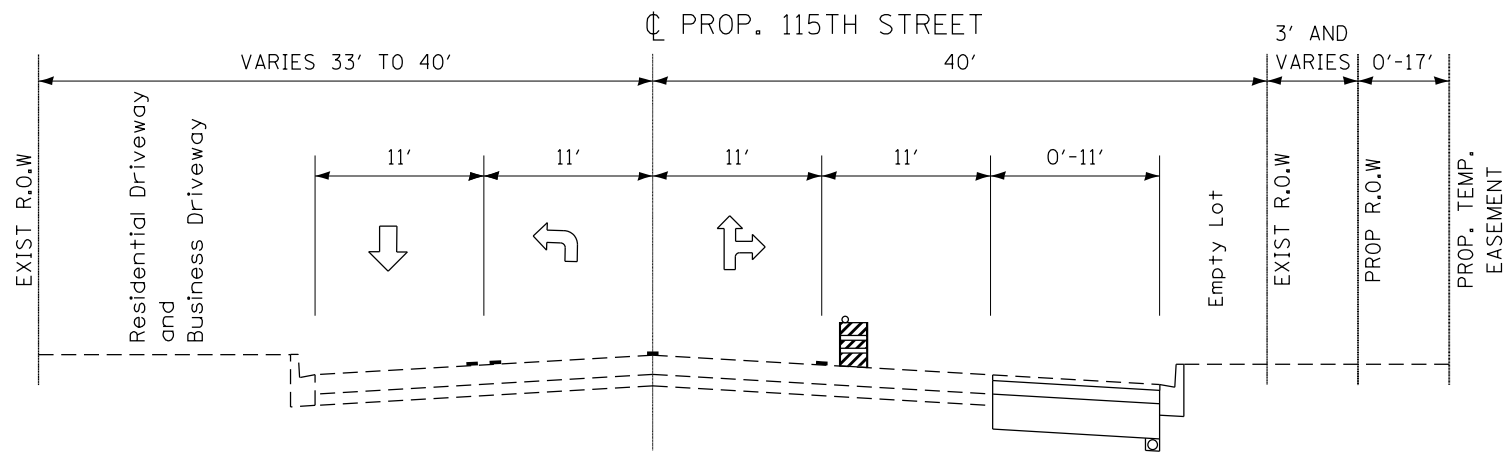
-  TYPE III BARRICADE
-  DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT
-  WORK ZONE
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT @ 50' & 20' SPACING ON TAPERS, LANE SHIFTS AND RADII.

**NOTES:**

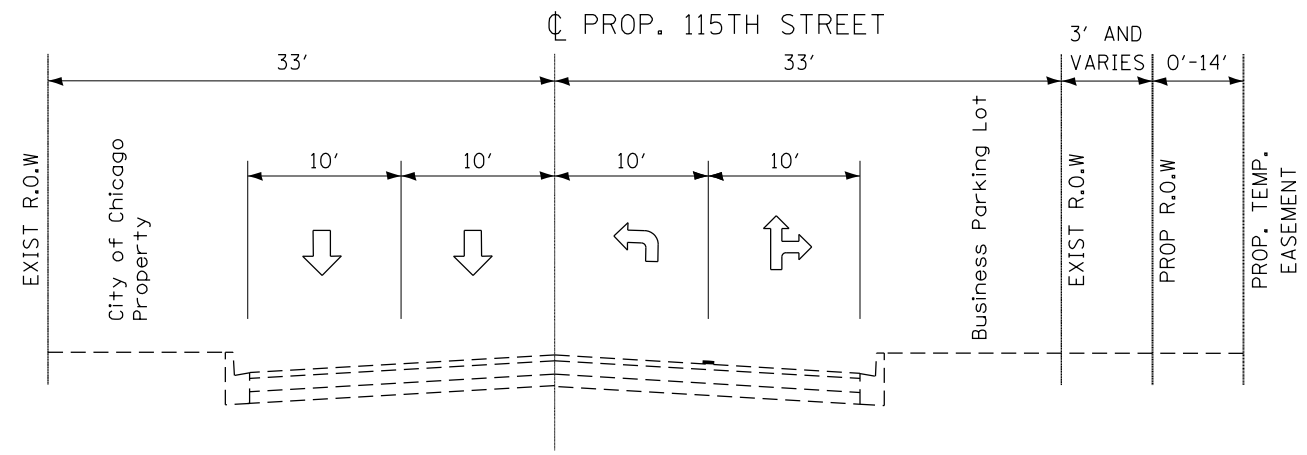
- TYPE III BARRICADES TO BE PLACED WHEN NO WORK IS BEING PERFORMED
- 'WORKERS' SIGN SHALL BE COVERED OR REMOVED WHEN WORKERS ARE NOT PRESENT

|  |                              |            |           |   |  |           |      |    |                           |         |        |              |           |
|--|------------------------------|------------|-----------|---|--|-----------|------|----|---------------------------|---------|--------|--------------|-----------|
| FILE NAME =  | USER NAME = pyrzenowski      | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>STAGE III<br/>115TH STREET AT PULASKI ROAD</b>            |           |      |    | F.A.U. RTE.               | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\P125112\Drawings\Design\P125112-shit-cover.dgn |                              | CHECKED -  | REVISED - |   | 1583   | 0303-RS&N | COOK | 87 | 24                        |         |        |              |           |
| Default  | PLOT SCALE = 100.0000' / in. | DATE -     | REVISED - |   | SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO    STA. |           |      |    | CONTRACT NO. 60V52        |         |        |              |           |
|  | PLOT DATE = 6/29/2015        |            |           |   |  |           |      |    | ILLINOIS FED. AID PROJECT |         |        |              |           |

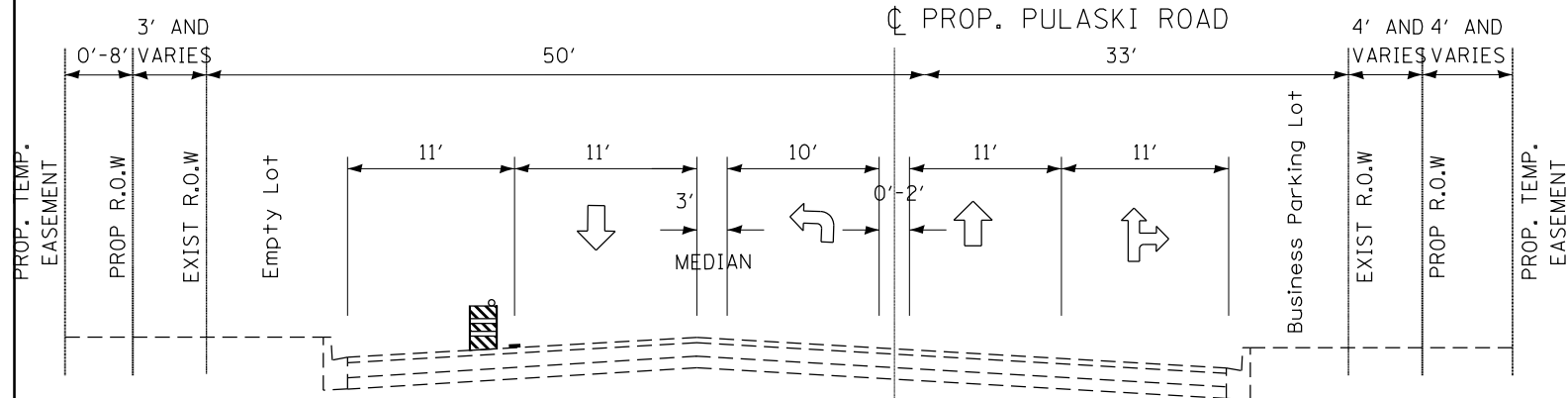




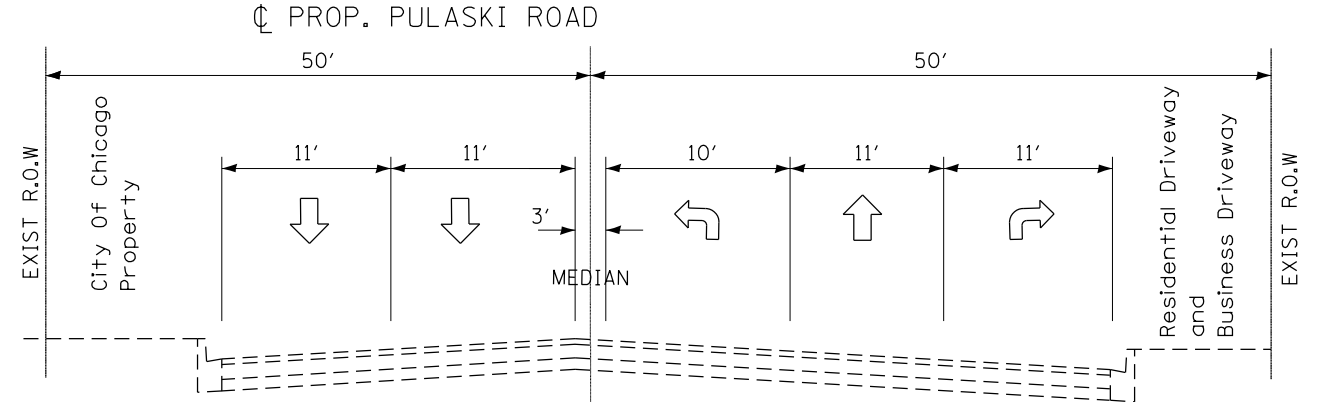
**STAGE I TYPICAL SECTION**  
**115TH STREET**  
 WEST LEG - STA. 193+50 TO STA. 200+00



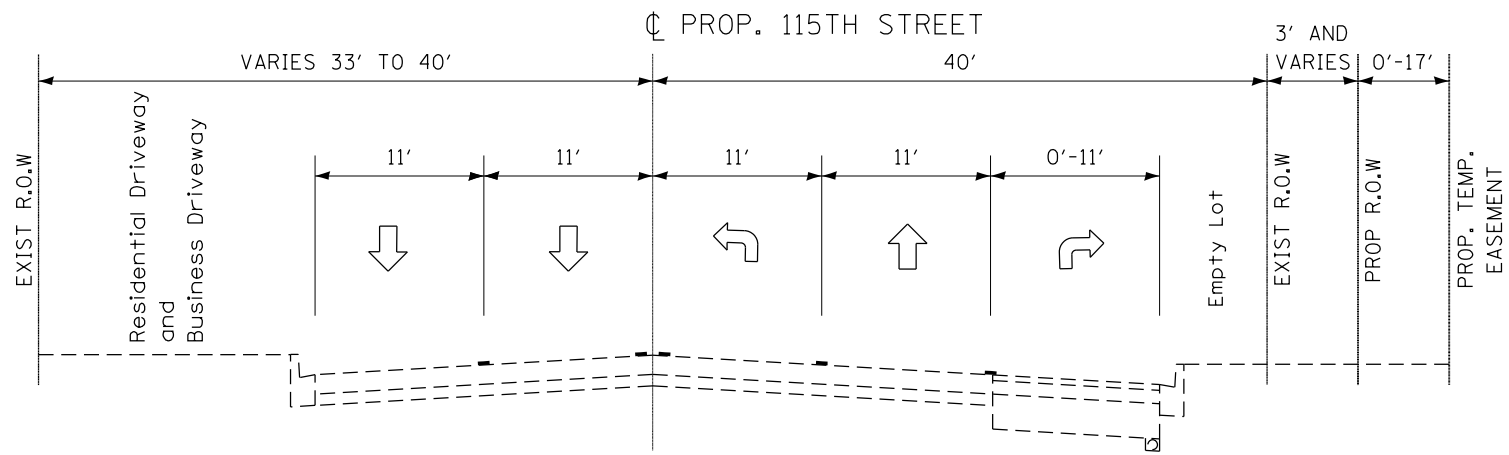
**STAGE I TYPICAL SECTION**  
**115TH STREET**  
 EAST LEG - STA. 200+00 TO STA. 206+72



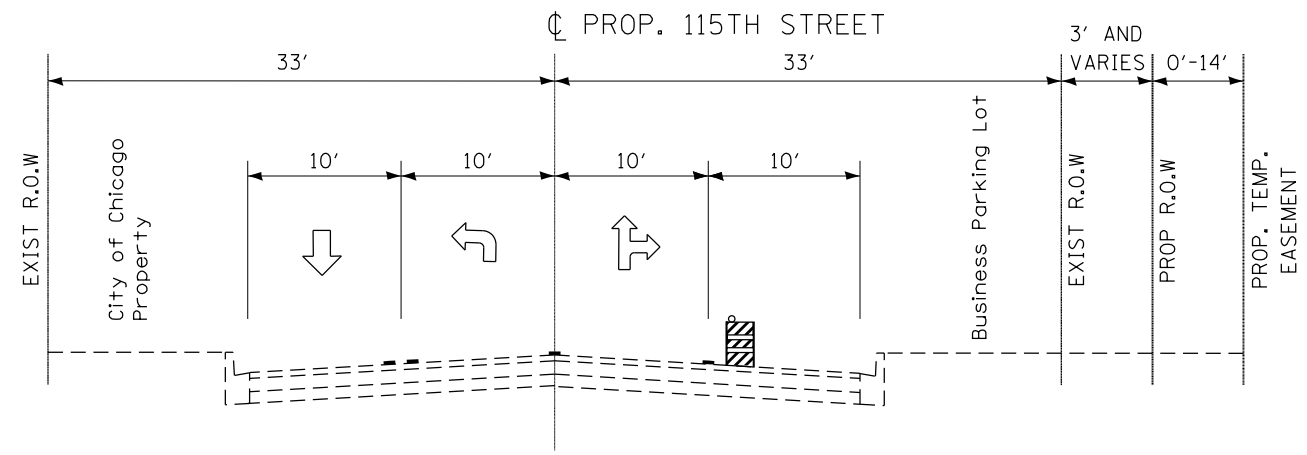
**STAGE I TYPICAL SECTION**  
**PULASKI ROAD**  
 SOUTH LEG - STA. 495+68 TO STA. 500+00



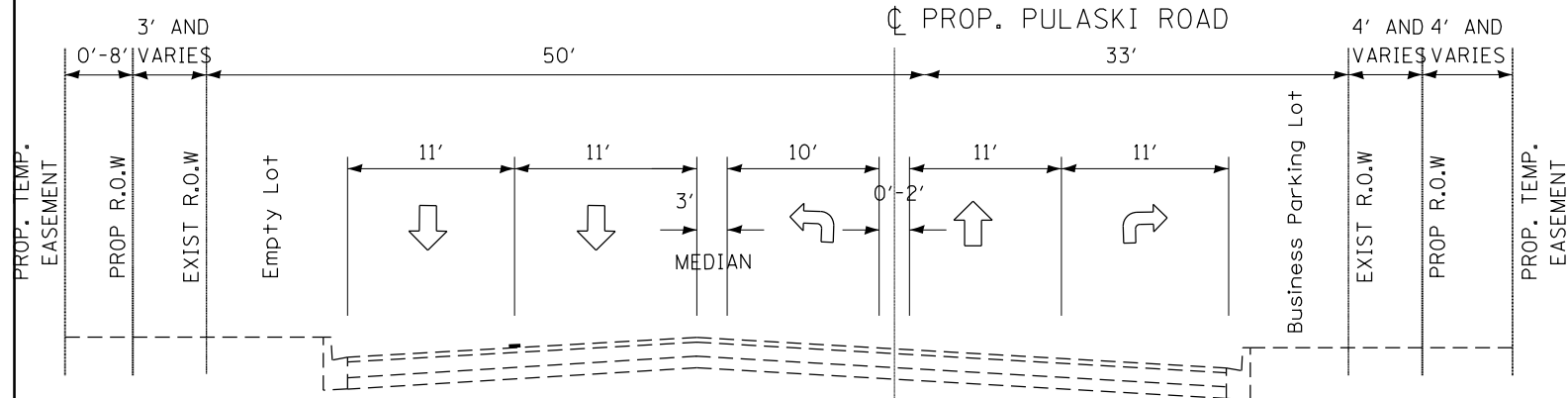
**STAGE I TYPICAL SECTION**  
**PULASKI ROAD**  
 NORTH LEG - STA. 500+00 TO STA. 502+63



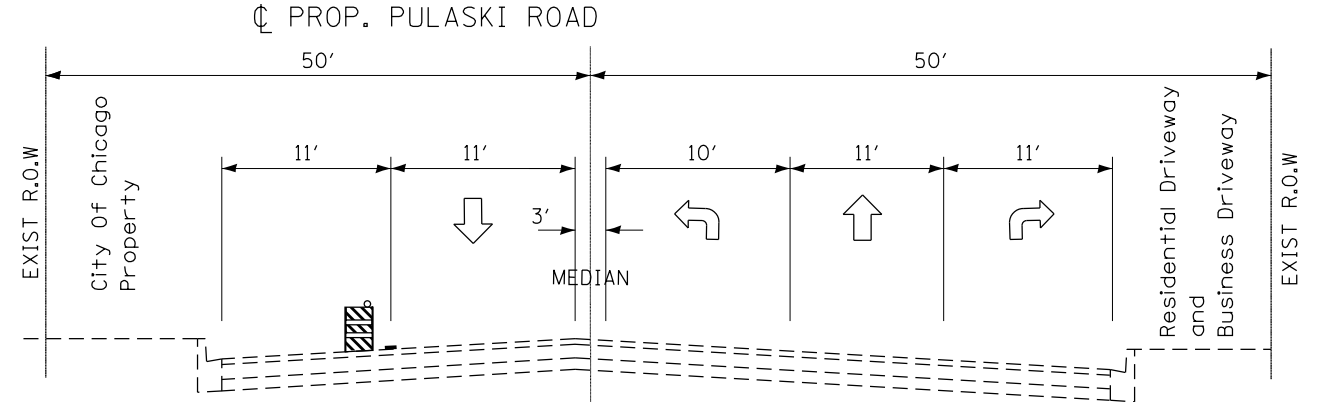
**STAGE II TYPICAL SECTION**  
**115TH STREET**  
 WEST LEG - STA. 193+50 TO STA. 200+00



**STAGE II TYPICAL SECTION**  
**115TH STREET**  
 EAST LEG - STA. 200+00 TO STA. 206+72



**STAGE II TYPICAL SECTION**  
**PULASKI ROAD**  
 SOUTH LEG - STA. 495+68 TO STA. 500+00



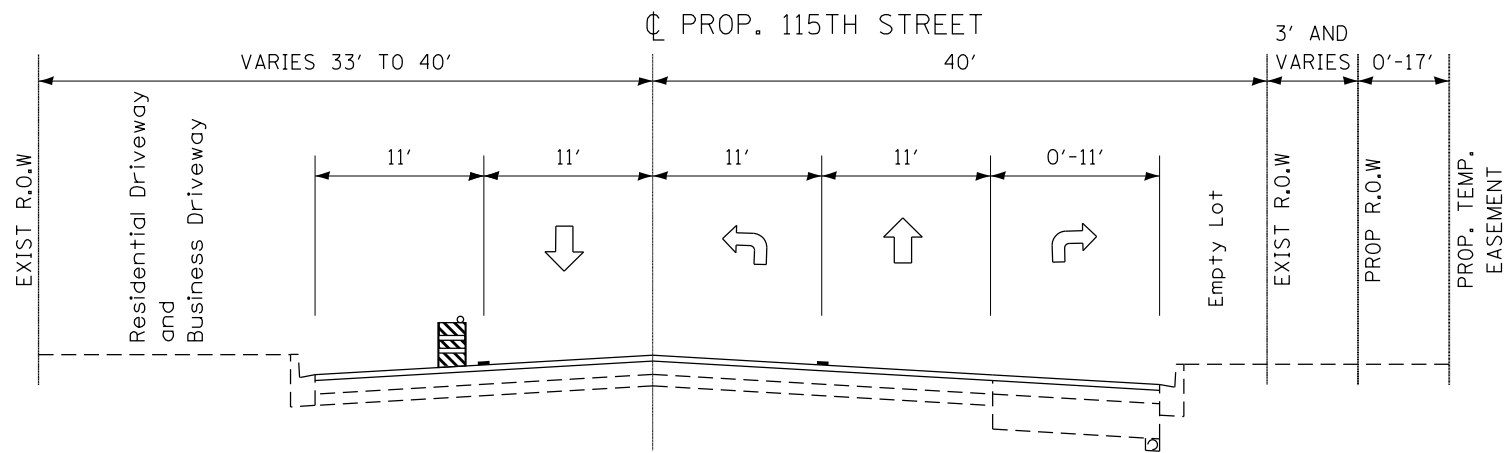
**STAGE II TYPICAL SECTION**  
**PULASKI ROAD**  
 NORTH LEG - STA. 500+00 TO STA. 502+63

|   |                           |            |           |
|---|---------------------------|------------|-----------|
| FILE NAME =   | USER NAME = pyzzenowskirb | DESIGNED - | REVISED - |
| p:\11\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-sht-cover.dgn |                           | CHECKED -  | REVISED - |
| Default   | PLOT DATE = 6/29/2015     | DATE -     | REVISED - |

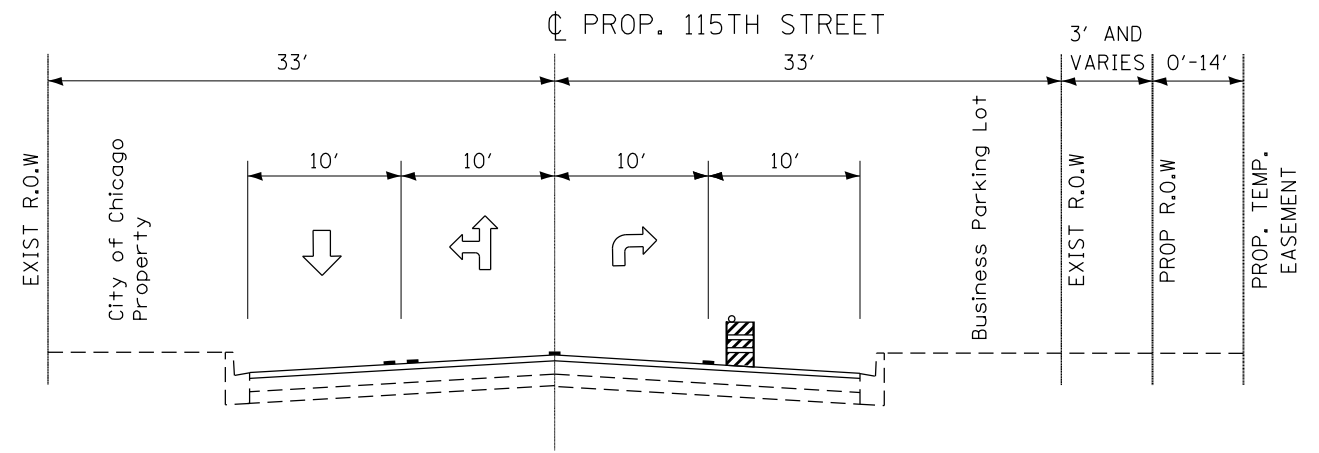
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

|                                     |       |           |              |
|-------------------------------------|-------|-----------|--------------|
| <b>STAGE II CROSS SECTIONS</b>      |       |           |              |
| <b>115TH STREET AT PULASKI ROAD</b> |       |           |              |
| SCALE: 1"=50'                       | SHEET | OF SHEETS | STA. TO STA. |

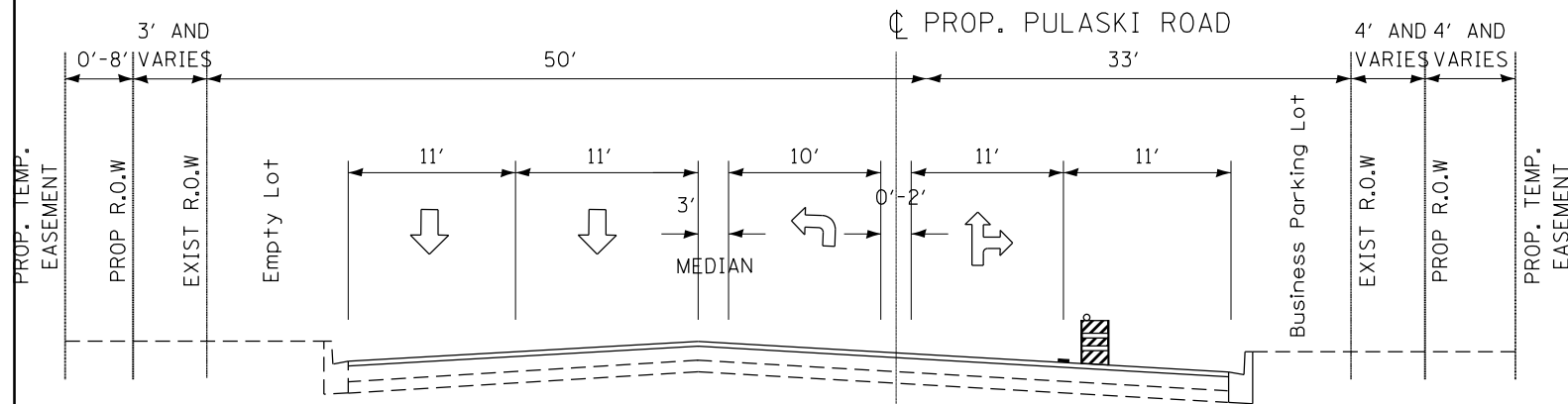
| F.A.U. RTÉ.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 1583                      | 0303-RS&N | COOK   | 87           | 26        |
| CONTRACT NO. 60V52        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



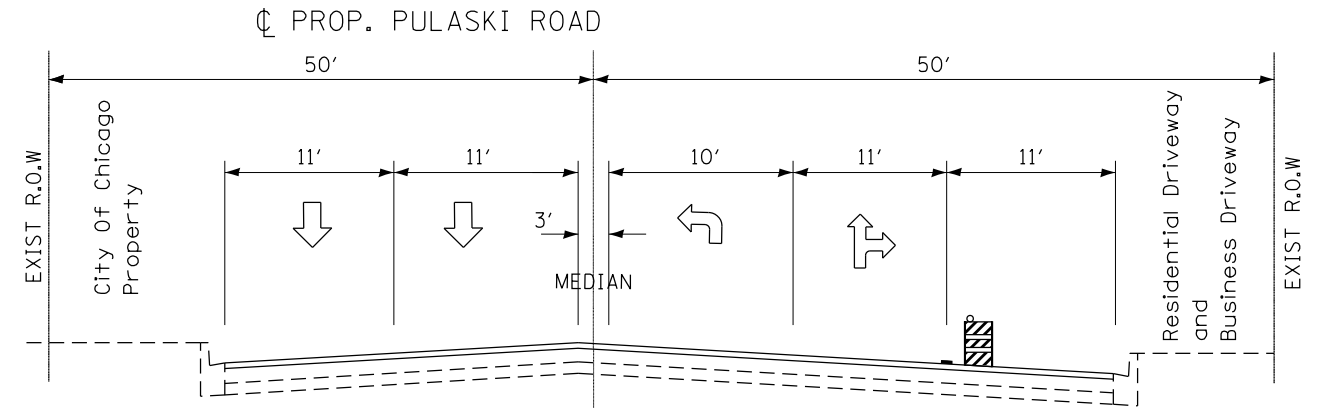
STAGE III TYPICAL SECTION  
115TH STREET  
WEST LEG - STA. 193+50 TO STA. 200+00



STAGE III TYPICAL SECTION  
115TH STREET  
EAST LEG - STA. 200+00 TO STA. 206+72



STAGE III TYPICAL SECTION  
PULASKI ROAD  
SOUTH LEG - STA. 495+68 TO STA. 500+00



STAGE III TYPICAL SECTION  
PULASKI ROAD  
NORTH LEG - STA. 500+00 TO STA. 502+63

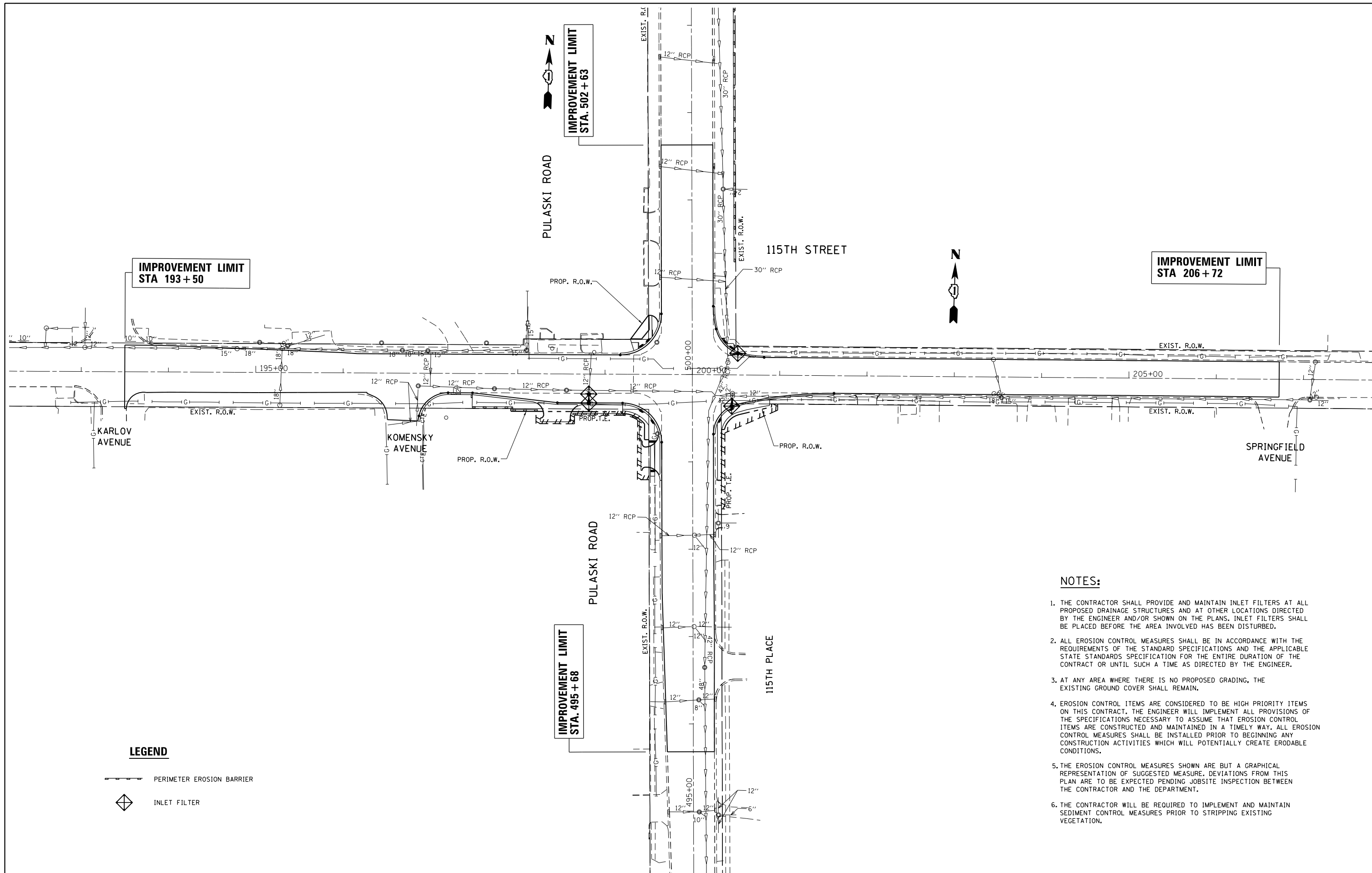
|  |                               |            |           |
|--|-------------------------------|------------|-----------|
| FILE NAME =  | USER NAME = pyrzezowski       | DESIGNED - | REVISED - |
| p:\11084EBID\INTEG\11084EBID\Documents\DOT Offices\District 1\Projects\P125112\Drawings\Design\P125112-sht-cover.dgn |                               | DRAWN -    | REVISED - |
| Default  | PLOT SCALE = 100.0000' / 1in. | CHECKED -  | REVISED - |
|  | PLOT DATE = 6/29/2015         | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE III CROSS SECTIONS  
115TH STREET AT PULASKI ROAD



SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

| F.A.U. RTÉ.               | SECTION   | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|-----------|--------|--------------------|-----------|
| 1583                      | 0303-RS&N | COOK   | 87                 | 27        |
| ILLINOIS FED. AID PROJECT |           |        | CONTRACT NO. 60V52 |           |



- NOTES:**
1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET FILTERS AT ALL PROPOSED DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON THE PLANS. INLET FILTERS SHALL BE PLACED BEFORE THE AREA INVOLVED HAS BEEN DISTURBED.
  2. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE STATE STANDARDS SPECIFICATION FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
  3. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
  4. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATIONS NECESSARY TO ASSUME THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODABLE CONDITIONS.
  5. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURE. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
  6. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.

**LEGEND**

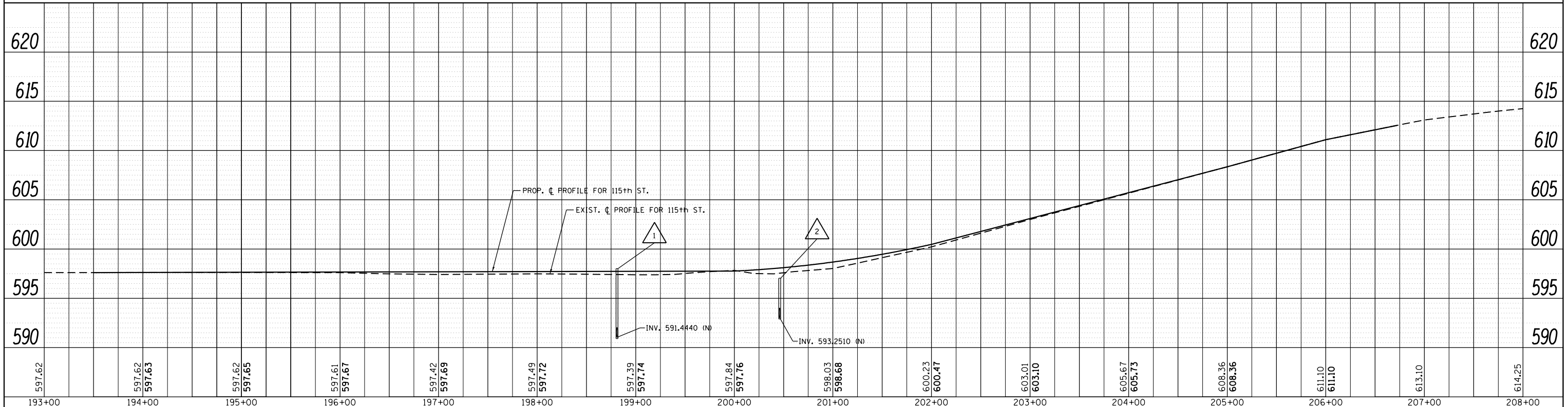
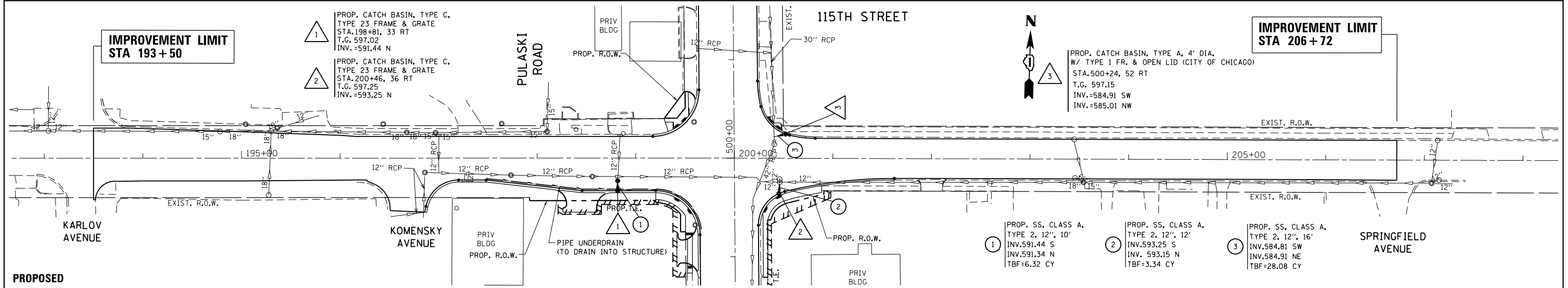
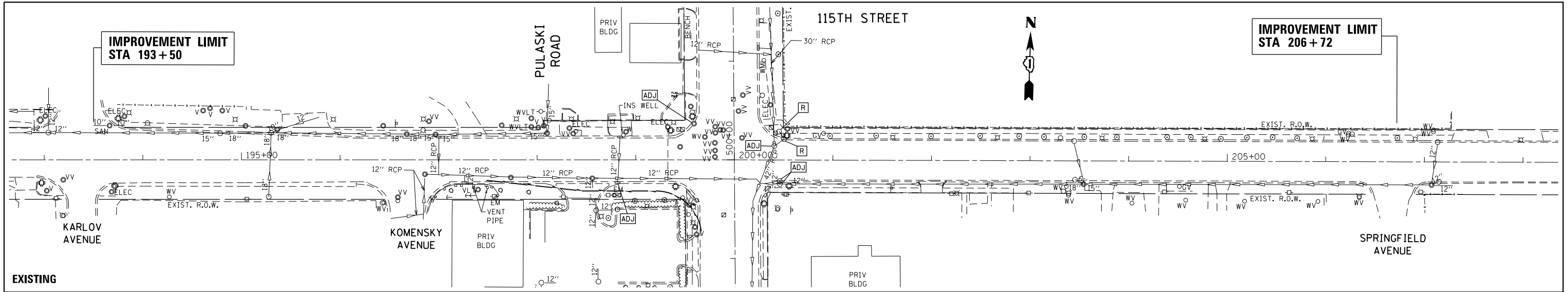
 PERIMETER EROSION BARRIER  
 INLET FILTER

|             |                         |            |           |   |  |       |    |             |         |        |              |           |           |      |    |    |
|-------------|-------------------------|------------|-----------|---|--|-------|----|-------------|---------|--------|--------------|-----------|-----------|------|----|----|
| FILE NAME = | USER NAME = pyrzezowski | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EROSION CONTROL PLAN<br/>115TH STREET AT PULASKI ROAD</b> |       |    | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |           |      |    |    |
| Default     |                         | CHECKED -  | REVISED - |   | SCALE: 1"=50'  | SHEET | OF | SHEETS      | STA.    | TO     | STA.         | 1583      | 0303-RS&N | COOK | 87 | 28 |
|             |                         | DATE -     | REVISED - |   | CONTRACT NO. 60V52   |       |    |             |         |        |              |           |           |      |    |    |
|             |                         |            |           |   | ILLINOIS FED. AID PROJECT                                    |       |    |             |         |        |              |           |           |      |    |    |

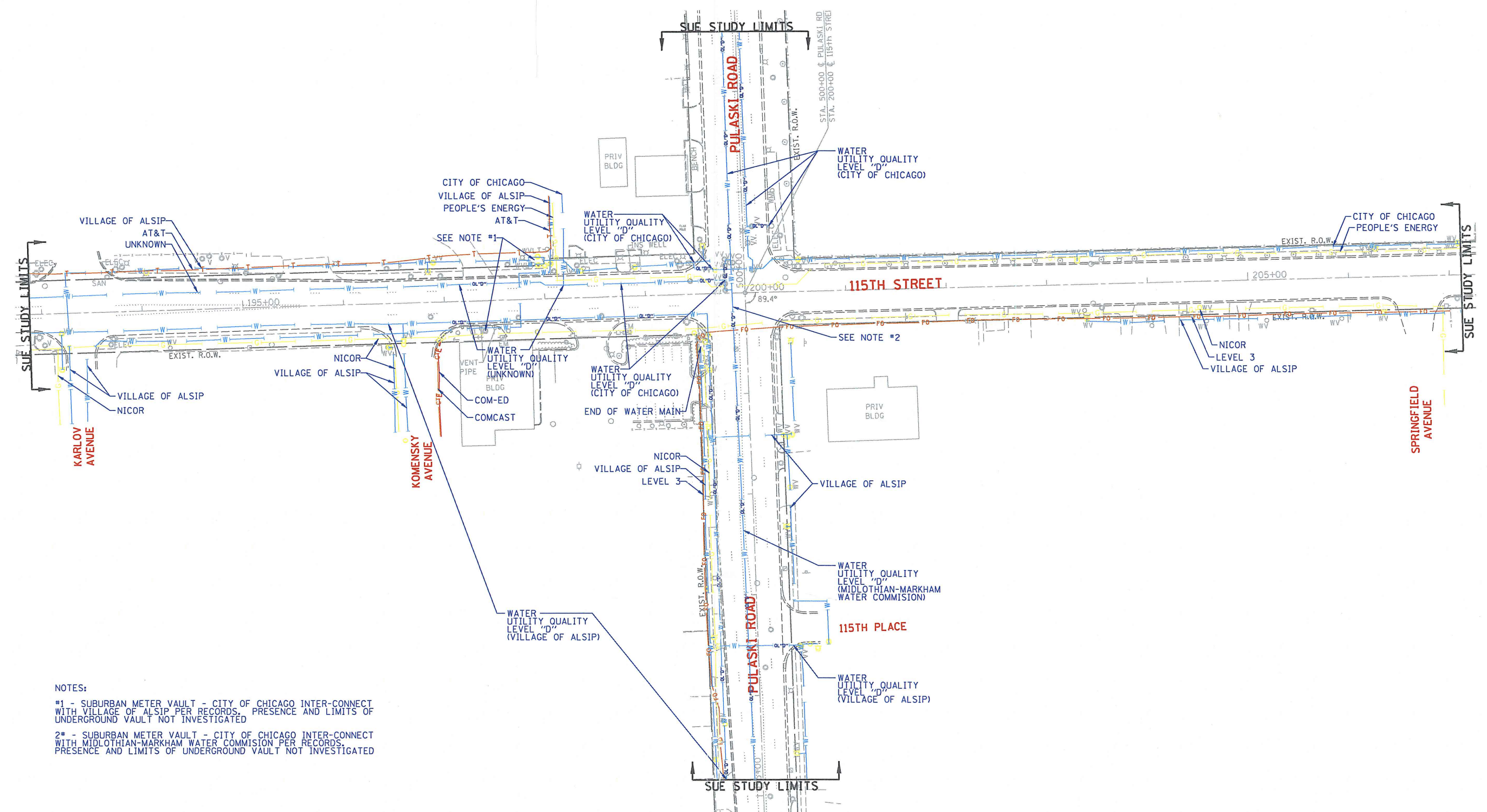


|           |  |
|-----------|--|
| DATE      |  |
| BY        |  |
| PLAN      |  |
| SURVEYED  |  |
| PLOTTED   |  |
| NOTE BOOK |  |
| NO.       |  |
| CHECKED   |  |
| FILE NAME |  |

|                    |  |
|--------------------|--|
| DATE               |  |
| BY                 |  |
| PROFILE            |  |
| SURVEYED           |  |
| PLOTTED            |  |
| GRADES CHECKED     |  |
| NO.                |  |
| STRUCTURE          |  |
| NOT AT THIS OFFICE |  |



|  |                           |            |           |   |   |           |      |            |         |        |              |           |
|--|---------------------------|------------|-----------|---|---|-----------|------|------------|---------|--------|--------------|-----------|
| FILE NAME =  | USER NAME = pyraznowskirb | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DRAINAGE PLAN AND PROFILE<br/>115TH STREET AT PULASKI ROAD</b> |           |      | F.A.U. RE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| p:\1184EBIDINTEG\Illinois.gov\PIWIDOT\Documents\1007 Offices\District 1\Projects\P125112\Drawings\Design\P125112-shr-cover.dgn |                           | CHECKED -  | REVISED - |   | 1583  | 0303-RS&N | COOK | 87         | 30      |        |              |           |
| PLOT SCALE = 100.0000' / in.   |                           | DATE -     | REVISED - |   | CONTRACT NO. 60V52  |           |      |            |         |        |              |           |
| PLOT DATE = 7/10/2015  |                           |            |           |   | ILLINOIS FED. AID PROJECT   |           |      |            |         |        |              |           |



NOTES:  
 #1 - SUBURBAN METER VAULT - CITY OF CHICAGO INTER-CONNECT WITH VILLAGE OF ALSIP PER RECORDS. PRESENCE AND LIMITS OF UNDERGROUND VAULT NOT INVESTIGATED  
 #2 - SUBURBAN METER VAULT - CITY OF CHICAGO INTER-CONNECT WITH MIDLOTHIAN-MARKHAM WATER COMMISSION PER RECORDS. PRESENCE AND LIMITS OF UNDERGROUND VAULT NOT INVESTIGATED

|             |               |
|-------------|---------------|
| — A — A     | AERIAL        |
| — O — O     | UNKNOWN       |
| — O — O     | OIL           |
| — CTV — CTV | CABLE TV      |
| — T — T     | TELEPHONE     |
| — G — G     | GAS           |
| — E — E     | ELECTRIC      |
| — W — W     | WATER         |
| — FO — FO   | FIBER OPTIC   |
| ⊕           | TBE TEST HOLE |

| UTILITY OWNERS                              |  |
|---|--|
| AT&T - TELEPHONE                            |  |
| CITY OF CHICAGO - WATER                     |  |
| COM-ED - ELECTRIC                           |  |
| COMCAST - CABLE TV                          |  |
| LEVEL 3 - FIBER OPTIC                       |  |
| MIDLOTHIAN-MARKHAM WATER COMMISSION - WATER |  |
| NICOR - GAS                                 |  |
| PEOPLE'S ENERGY - GAS                       |  |
| UNKNOWN - WATER                             |  |
| VILLAGE OF ALSIP - WATER                    |  |

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 6/18/14 through 8/22/14. Changes to utilities after 8/22/14 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



Utility Quality Level "A": Visually Verified Test Hole  
 Utility Quality Level "B": Designating/non Visually Verified Test Hole  
 Utility Quality Level "C": Research with Survey  
 Utility Quality Level "D": Records Research

|          |         |         |
|----------|---------|---------|
| DESIGNED | IP      | REVISED |
| DRAWN    | SRK     | REVISED |
| CHECKED  | MGR     | REVISED |
| DATE     | 9/02/14 | REVISED |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

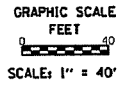
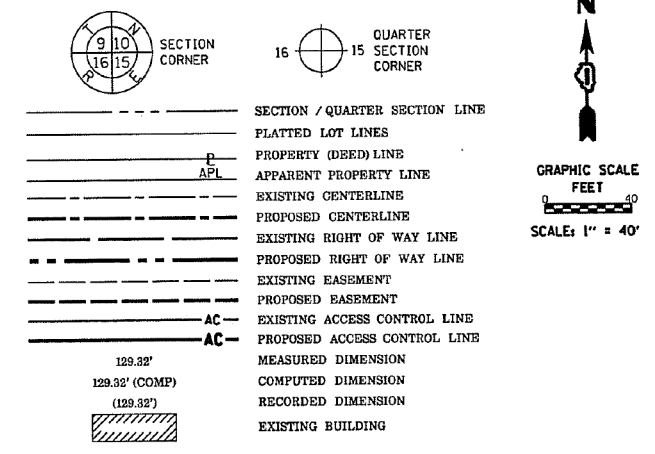
115th Street at Pulaski Road  
 Alsip/Chicago, Illinois

|   |             |        |              |           |
|---|-------------|--------|--------------|-----------|
| F.A.U. RTE.                                   | SECTION     | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1583  | 0303-RS & N | Cook   | 87           | 31        |
| Contract No. 60V52                            |             |        |              |           |
| FED. ROAD DIST. NO. ILLINOIS IDOT Project No. |             |        |              |           |

TBE Job No. IL09510610  
 SUE Plan Pages 1 of 1

PART OF THE NE AND SE 1/4 OF SECTION 22 AND THE SW 1/4 OF SECTION 23, TWP. 37 N., R. 13 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

**LEGEND**

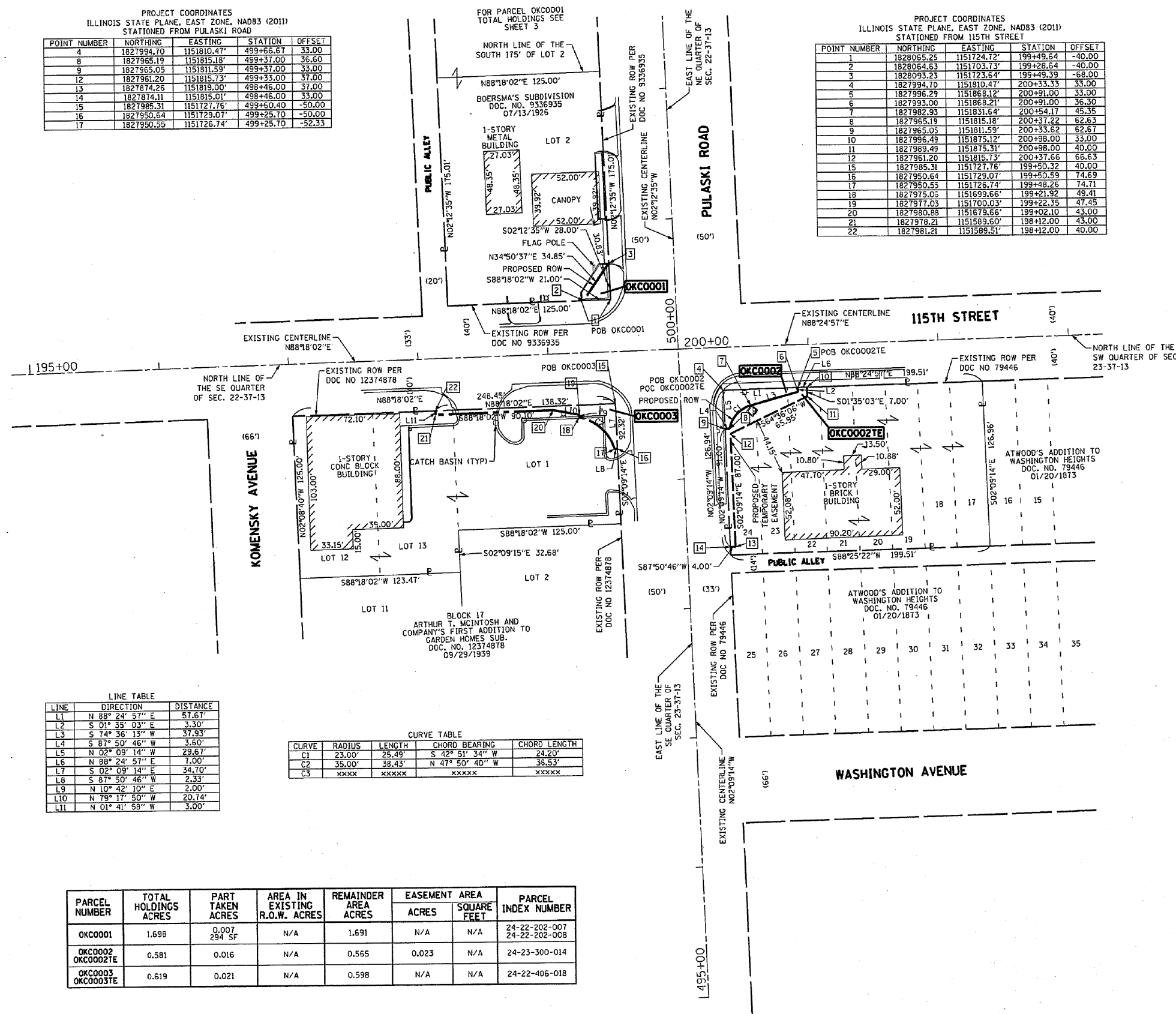


PROJECT COORDINATES  
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)  
STATIONED FROM PULASKI ROAD

| POINT NUMBER | NORTHING   | EASTING    | STATION   | OFFSET |
|--------------|------------|------------|-----------|--------|
| 4            | 1827994.70 | 1151810.47 | 499+66.67 | 33.00  |
| 8            | 1827965.19 | 1151815.18 | 499+37.00 | 36.60  |
| 9            | 1827965.05 | 1151811.59 | 499+37.00 | 33.00  |
| 12           | 1827961.20 | 1151815.73 | 499+33.00 | 37.00  |
| 13           | 1827874.26 | 1151819.00 | 498+48.00 | 37.00  |
| 14           | 1827814.11 | 1151815.01 | 498+48.00 | 33.00  |
| 15           | 1827965.31 | 1151723.76 | 499+60.40 | -50.00 |
| 16           | 1827950.64 | 1151723.07 | 499+25.70 | -50.00 |
| 17           | 1827950.55 | 1151726.74 | 499+25.70 | -52.33 |

PROJECT COORDINATES  
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)  
STATIONED FROM 115TH STREET

| POINT NUMBER | NORTHING   | EASTING    | STATION   | OFFSET |
|--------------|------------|------------|-----------|--------|
| 1            | 1828065.25 | 1151724.72 | 199+48.54 | -40.00 |
| 2            | 1828064.63 | 1151703.73 | 199+28.64 | -40.00 |
| 4            | 1828093.23 | 1151723.64 | 199+48.39 | -58.00 |
| 5            | 1827994.70 | 1151810.47 | 200+33.33 | 33.00  |
| 6            | 1827996.29 | 1151868.12 | 200+91.00 | 33.00  |
| 7            | 1827993.00 | 1151868.21 | 200+91.00 | 36.30  |
| 8            | 1827982.93 | 1151831.64 | 200+54.17 | 45.35  |
| 9            | 1827965.19 | 1151815.18 | 200+37.22 | 62.63  |
| 10           | 1827965.05 | 1151811.59 | 200+33.62 | 62.67  |
| 11           | 1827965.48 | 1151875.12 | 200+98.00 | 33.00  |
| 12           | 1827969.49 | 1151875.31 | 200+98.00 | 40.00  |
| 13           | 1827961.20 | 1151815.73 | 200+37.65 | 66.53  |
| 14           | 1827965.31 | 1151727.76 | 199+50.32 | 40.00  |
| 15           | 1827950.64 | 1151729.07 | 199+50.55 | 74.69  |
| 16           | 1827950.55 | 1151726.74 | 199+48.26 | 74.71  |
| 17           | 1827975.05 | 1151699.66 | 199+21.92 | 49.41  |
| 18           | 1827977.03 | 1151700.03 | 199+22.35 | 47.45  |
| 19           | 1827980.88 | 1151679.66 | 199+02.10 | 43.00  |
| 20           | 1827976.21 | 1151589.60 | 198+12.00 | 43.00  |
| 21           | 1827981.21 | 1151589.51 | 198+12.00 | 40.00  |
| 22           | 1827981.21 | 1151589.51 | 198+12.00 | 40.00  |



LINE TABLE

| LINE | DIRECTION       | DISTANCE |
|------|-----------------|----------|
| L1   | N 88° 24' 57" E | 57.67    |
| L2   | S 01° 35' 03" E | 3.30     |
| L3   | S 74° 36' 13" W | 37.93    |
| L4   | S 87° 50' 46" W | 3.60     |
| L5   | N 02° 09' 14" W | 29.67    |
| L6   | N 88° 24' 57" E | 7.00     |
| L7   | S 02° 09' 14" E | 34.70    |
| L8   | S 87° 50' 46" W | 2.33     |
| L9   | N 10° 42' 10" E | 2.00     |
| L10  | N 79° 17' 50" W | 20.74    |
| L11  | N 01° 41' 58" W | 3.00     |

CURVE TABLE

| CURVE | RADIUS | LENGTH | CHORD BEARING   | CHORD LENGTH |
|-------|--------|--------|-----------------|--------------|
| C1    | 23.00' | 25.49' | S 42° 51' 34" W | 24.20'       |
| C2    | 35.00' | 38.43' | N 47° 50' 40" W | 35.53'       |
| C3    | XXXX   | XXXX   | XXXX            | XXXX         |

| PARCEL NUMBER        | TOTAL HOLDINGS ACRES | PART TAKEN ACRES | AREA IN EXISTING R.O.W. ACRES | REMAINDER AREA ACRES | EASEMENT ACRES | AREA SQUARED FEET | PARCEL INDEX NUMBER            |
|----------------------|----------------------|------------------|-------------------------------|----------------------|----------------|-------------------|--------------------------------|
| OKC0001              | 1.698                | 0.007<br>294 SF  | N/A                           | 1.691                | N/A            | N/A               | 24-22-202-007<br>24-22-202-008 |
| OKC0002<br>OKC0002TE | 0.581                | 0.016            | N/A                           | 0.565                | 0.023          | N/A               | 24-23-300-014                  |
| OKC0003<br>OKC0003TE | 0.619                | 0.021            | N/A                           | 0.598                | N/A            | N/A               | 24-22-406-018                  |

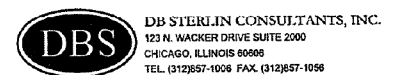
- BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.
- IRON PIPE OR ROD FOUND
  - "MAG" NAIL SET
  - + CUT CROSS FOUND OR SET
  - 5/8" REBAR SET
  - T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - T2
  - T3
  - BT1 THESE STAKES IN CULTIVATED AREAS REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - BT2
  - BT3
  - STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
  - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
  - RIGHT OF WAY STAKING PROPOSED TO BE SET
- STATE OF ILLINOIS )  
COUNTY OF COOK )

THIS IS TO CERTIFY THAT WE, DB STERLIN CONSULTANTS, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001909, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 22 AND 23, TOWNSHIP 37 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS 14TH DAY OF MARCH, 2014 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3134  
LICENSE EXPIRATION DATE: NOV. 30, 2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
115TH STREET

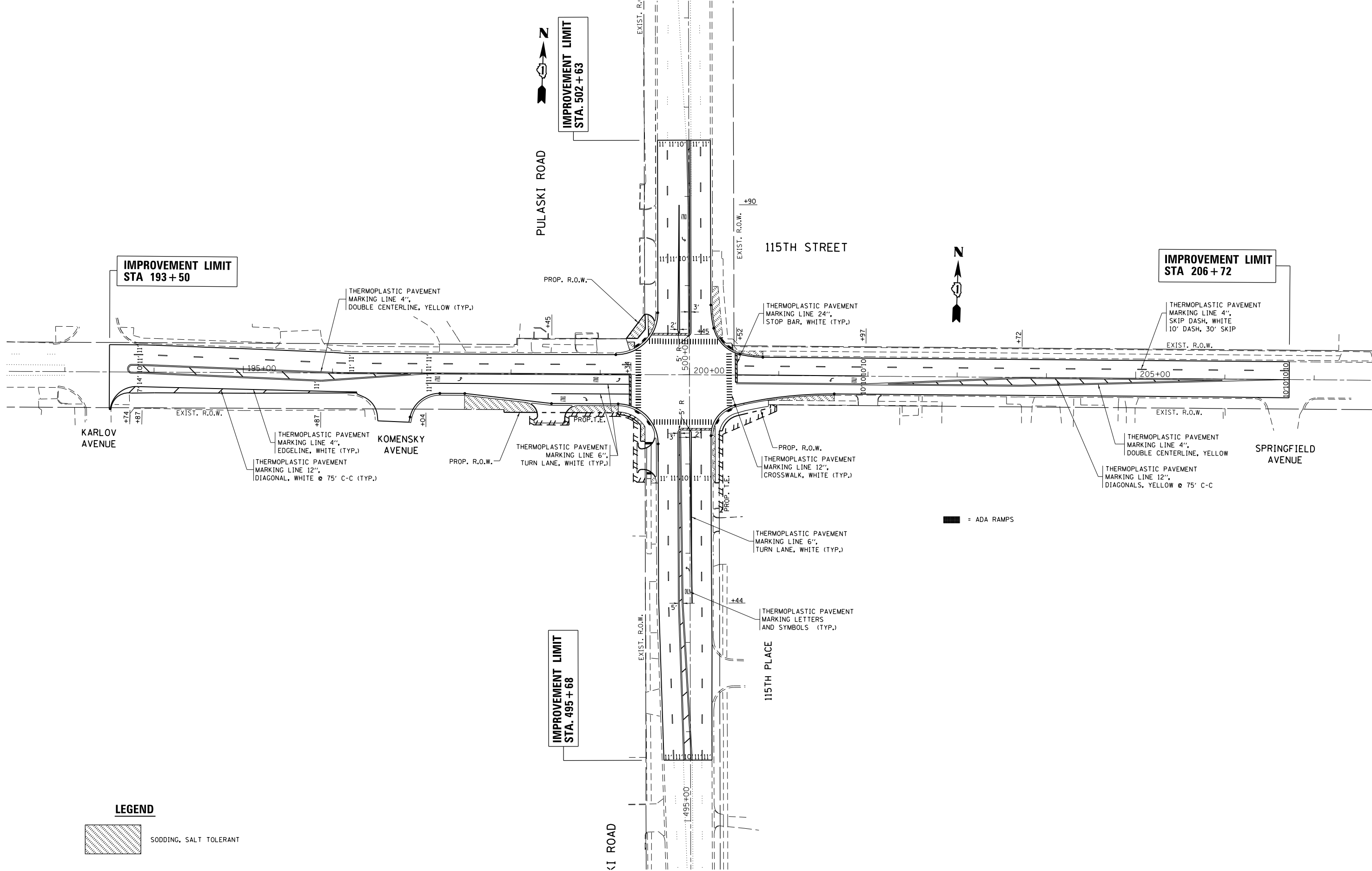
LIMITS: AT PULASKI ROAD COUNTY: COOK  
SECTION: 15 JOB NO.: R-90-009-14  
STA. 198+12 TO STA. 200+98  
SCALE: 1" = 40' SHEET 2 OF 3 SHEETS

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

DOT USE ONLY

REVISION DATE: / / REVISION MADE BY:





**LEGEND**

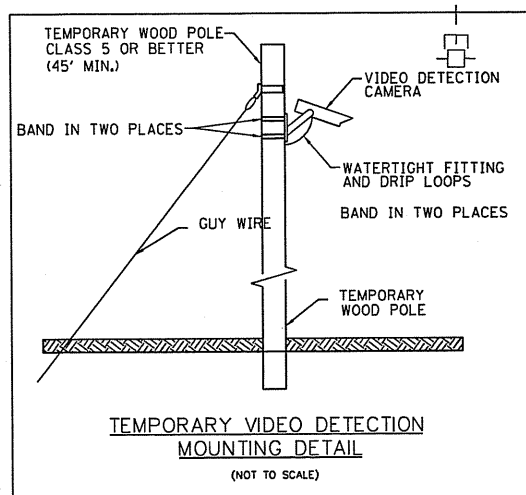
 SODDING, SALT TOLERANT

|                          |                              |            |           |
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|                          | PLOT DATE = 7/10/2015        | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

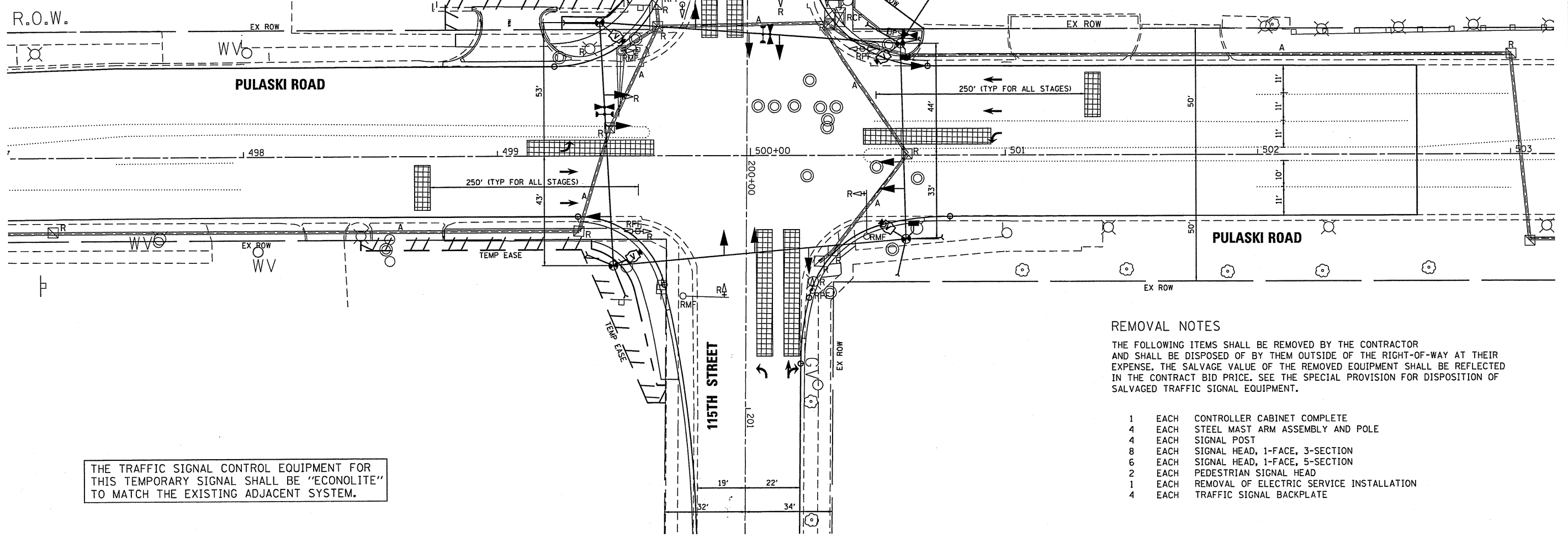
|  |       |           |              |
|--|-------|-----------|--------------|
| <b>PAVEMENT MARKING AND LANDSCAPING PLAN</b> |       |           |              |
| <b>115TH STREET AT PULASKI ROAD</b>          |       |           |              |
| SCALE: 1"=50'                                | SHEET | OF SHEETS | STA. TO STA. |

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1583                      | 0303-RS&N | COOK   | 87           | 33        |
| CONTRACT NO. 60V52        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



**CONSTRUCTION NOTE:**  
 THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE NEW MAST ARMS AND TRAFFIC SIGNAL CONTROLLER.

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**REMOVAL NOTES**  
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. SEE THE SPECIAL PROVISION FOR DISPOSITION OF SALVAGED TRAFFIC SIGNAL EQUIPMENT.

- 1 EACH CONTROLLER CABINET COMPLETE
- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 4 EACH SIGNAL POST
- 8 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 6 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 1 EACH REMOVAL OF ELECTRIC SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE



FILE NAME = c:\pwork\project\115th\115th-sht-cover.dgn  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = MJD

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761  
 630.705.0110 voice, 630.839.2566 fax  
 www.mps-ll.com  
**MILLENNIA PROFESSIONAL SERVICES**

|                  |           |
|------------------|-----------|
| DESIGNED - JP    | REVISED - |
| DRAWN - RAW      | REVISED - |
| CHECKED - TVN    | REVISED - |
| DATE - 7/10/2015 | REVISED - |

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

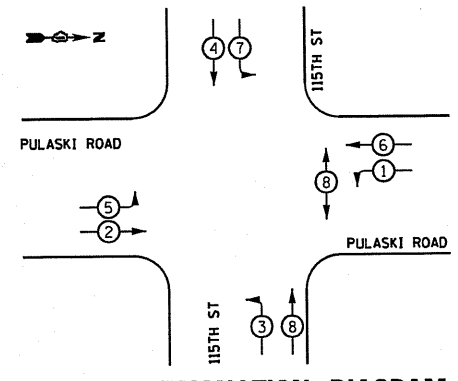
**TEMPORARY TRAFFIC SIGNAL PLAN AND**  
**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN**  
**PULASKI ROAD AT 115TH STREET**

| F.A.U. RTE.                                       | SECTION     | COUNTY | TOTAL SHEETS | SHEET NO.          |
|---|-------------|--------|--------------|--------------------|
| 1583  | 0303-RS & N | COOK   | 87           | 34                 |
| FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT |             |        |              | CONTRACT NO. 60V52 |

**TS# 3960**

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**PROPOSED CONTROLLER SEQUENCE**

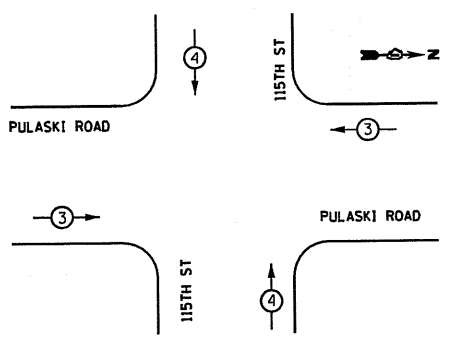


**PHASE DESIGNATION DIAGRAM**

**LEGEND**

- ◻ SINGLE ENTRY PHASE
- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

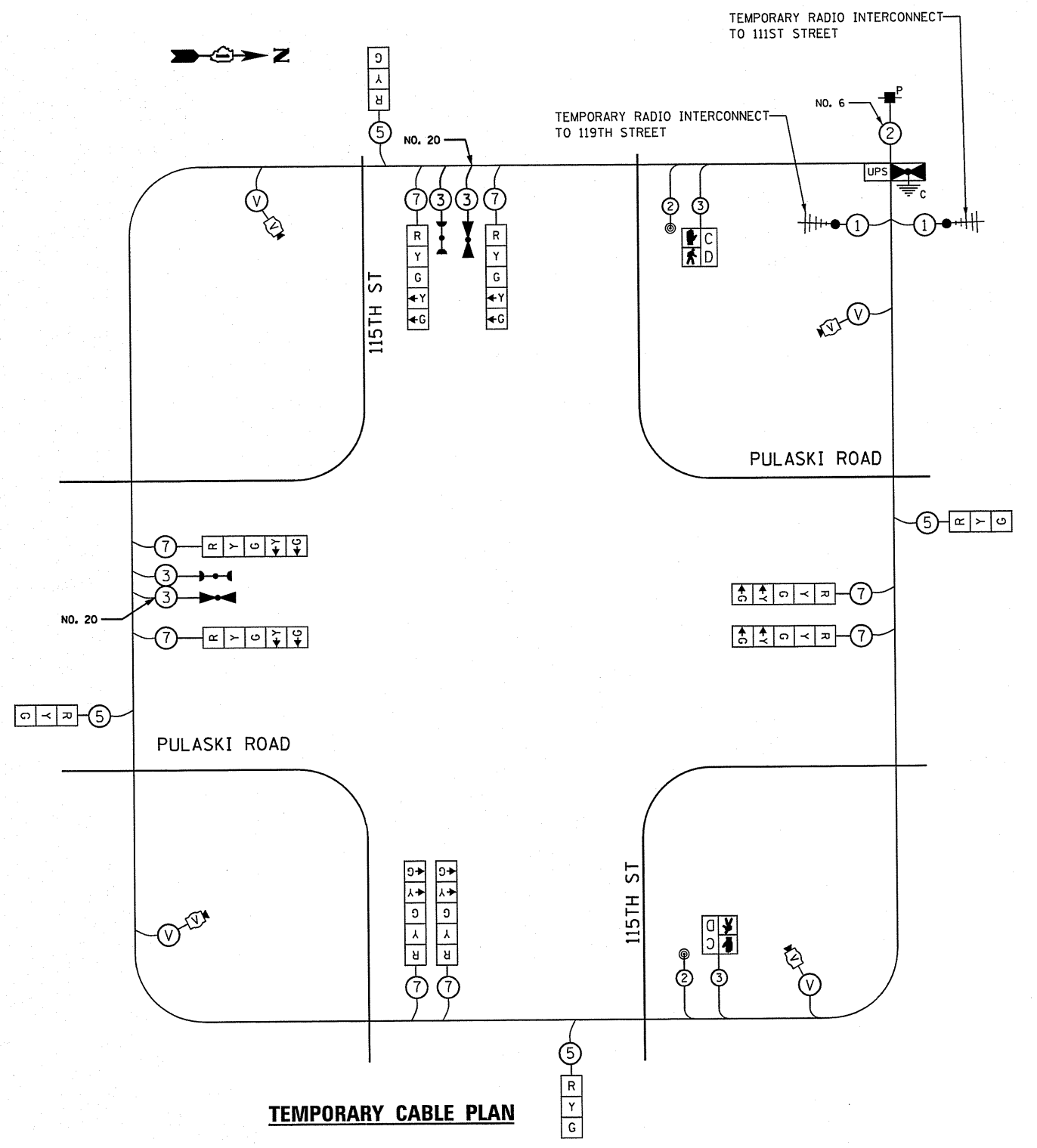


| I.D.O.T<br>TRAFFIC SIGNAL INSTALLATION<br>ELECTRICAL SERVICE REQUIREMENTS |              |                   |           | TOTAL<br>WATTAGE |
|---|--------------|-------------------|-----------|------------------|
| TYPE  | NO. OF LAMPS | WATTAGE<br>L.E.D. | OPERATION |                  |
| SIGNAL (RED)  | 12           | 17                | 0.50      | 102              |
| (YELLOW)  | 12           | 25                | 0.25      | 75               |
| (GREEN)   | 12           | 15                | 0.25      | 45               |
| ARROW   | 16           | 12                | 0.10      | 19.2             |
| PED. SIGNAL   | 2            | 25                | 1.00      | 50               |
| CONTROLLER  | 1            | 100               | 1.00      | 100              |
| ILLUM. SIGN   |              | 120               | 0.05      |                  |
| TOTAL   |              |                   |           | 451.2            |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS/DISTRICT 1  
201 W. CENTER CT/SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT: DAVE SCHACHT  
PHONE: 630-437-2129  
COMPANY: COMMONWEALTH EDISON

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



**TEMPORARY CABLE PLAN**

FILE NAME = c:\pwork\pwidot\pyrzenovskirb\d8298837\F125112-ahc-cover.dgn  
PLOT SCALE = 40.0000 / 1 in.  
USER NAME = USER000000

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761  
630.745.0110 voice, 630.839.2566 fax  
www.mps-ll.com

|                  |           |
|------------------|-----------|
| DESIGNED - JP    | REVISED - |
| DRAWN - RAW      | REVISED - |
| CHECKED - TVN    | REVISED - |
| DATE - 7/10/2015 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
PULASKI ROAD AT 115TH STREET**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

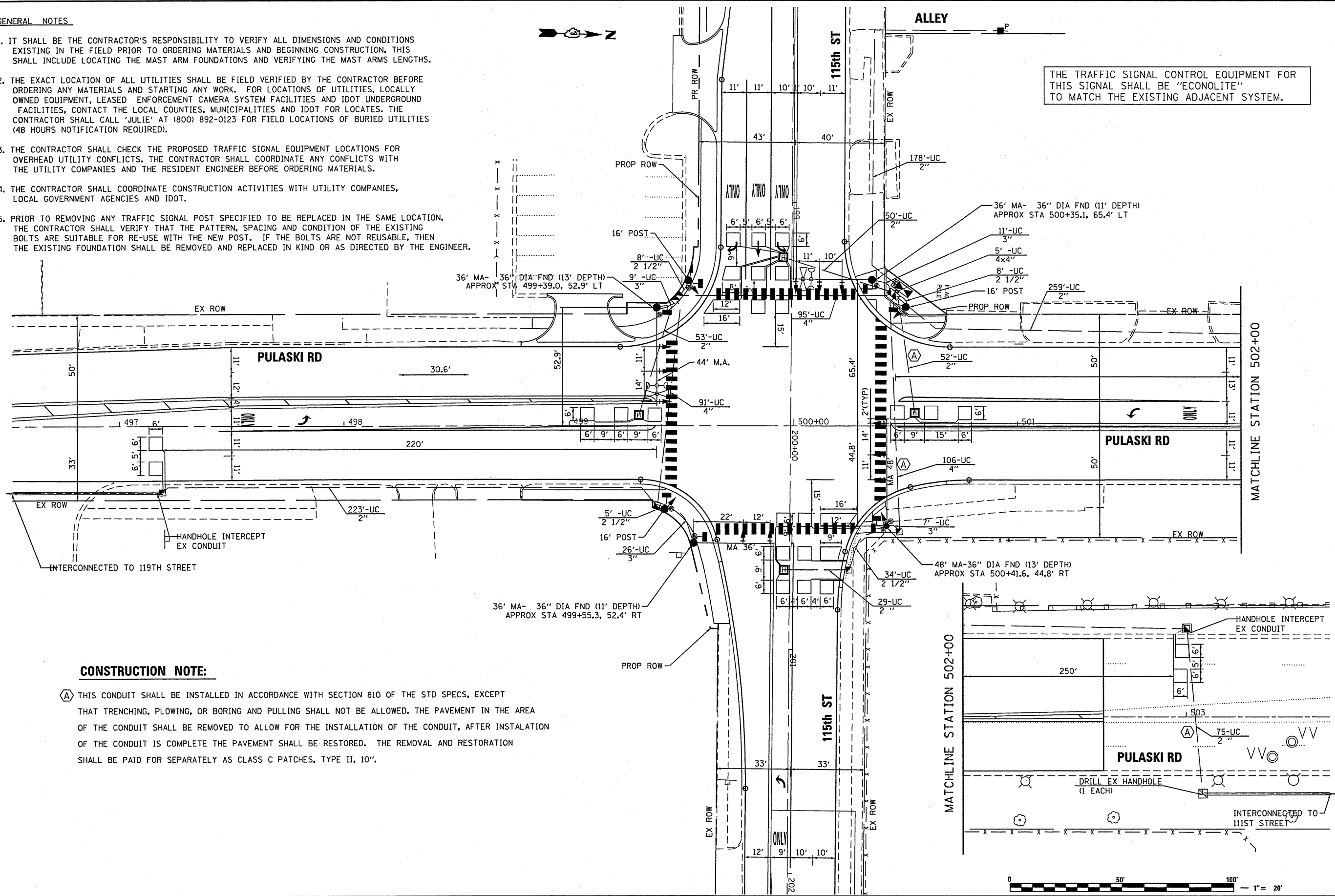
|   |                        |                |                    |                 |
|---|------------------------|----------------|--------------------|-----------------|
| F.A.U.<br>RTE.<br>1583                            | SECTION<br>0303-RS & N | COUNTY<br>COOK | TOTAL SHEETS<br>87 | SHEET NO.<br>35 |
| FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT |                        |                |                    |                 |
| CONTRACT NO. 60V52                                |                        |                |                    |                 |

**TS#3960**

**GENERAL NOTES**

- 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 ARMS 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 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION, THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH THE NEW POST. IF THE BOLTS ARE NOT REUSABLE, THEN THE EXISTING FOUNDATION SHALL BE REMOVED AND REPLACED IN KIND OR AS DIRECTED BY THE ENGINEER.


THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



**CONSTRUCTION NOTE:**

- (A) THIS CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 810 OF THE STD SPECS, EXCEPT THAT TRENCHING, PLOWING, OR BORING AND PULLING SHALL NOT BE ALLOWED. THE PAVEMENT IN THE AREA OF THE CONDUIT SHALL BE REMOVED TO ALLOW FOR THE INSTALLATION OF THE CONDUIT, AFTER INSTALLATION OF THE CONDUIT IS COMPLETE THE PAVEMENT SHALL BE RESTORED. THE REMOVAL AND RESTORATION SHALL BE PAID FOR SEPARATELY AS CLASS C PATCHES, TYPE II, 10\".

FILE NAME = c:\pwwork\pdsdo\pgr\zanovskirb\d8298837\125112-ah-cover.dgn  
 PLOT SCALE = 48.0000 / 1" = 20'  
 USER NAME = USER1000


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| DRAWN - RAW      | REVISED - |
| CHECKED - TVN    | REVISED - |
| DATE - 7/10/2015 | REVISED - |

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

**TRAFFIC SIGNAL MODERNIZATION PLAN**  
**PULASKI ROAD AT 115ST STREET**

SCALE: 1"=20'    SHEET NO. 3 OF 8 SHEETS    STA.    TO STA.

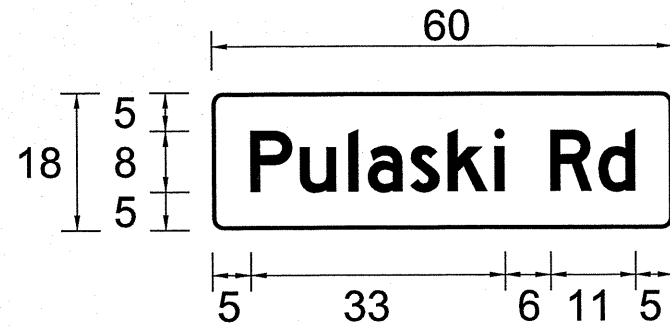
|   |                     |             |                 |              |
|---|---------------------|-------------|-----------------|--------------|
| F.A.U. RTE. 1583                                | SECTION 0303-RS & N | COUNTY COOK | TOTAL SHEETS 87 | SHEET NO. 36 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                     |             |                 |              |
| CONTRACT NO. 60V52                              |                     |             |                 |              |

TS#3960

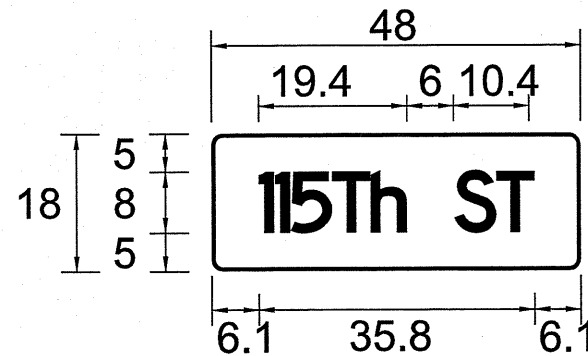


**SCHEDULE OF QUANTITIES**

**SIGN PANEL – TYPE 1**



| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY REQUIRED |
|---------------|--------------|-----------------|---------------|--------------|
| D             | 7.5          | 1               | ZZ            | 2            |



| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY REQUIRED |
|---------------|--------------|-----------------|---------------|--------------|
| D             | 6            | 1               | ZZ            | 2            |

NOTE:  
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

| ITEM DESCRIPTION   | UNITS | TOTAL QUANTITY |
|--|-------|----------------|
| SIGN PANEL - TYPE 1  | SQ FT | 27             |
| SERVICE INSTALLATION - POLE MOUNTED  | EACH  | 1              |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.                             | FOOT  | 919            |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.                         | FOOT  | 75             |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.                             | FOOT  | 53             |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.                             | FOOT  | 338            |
| HANDHOLE   | EACH  | 4              |
| HEAVY-DUTY HANDHOLE  | EACH  | 4              |
| DOUBLE HANDHOLE  | EACH  | 2              |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C                                | FOOT  | 2701           |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C                                | FOOT  | 1522           |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                                | FOOT  | 1213           |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C                                | FOOT  | 1883           |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR                          | FOOT  | 1315           |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C                              | FOOT  | 92             |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C         | FOOT  | 579            |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                               | EACH  | 3              |
| STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.                                   | EACH  | 2              |
| STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.                                   | EACH  | 1              |
| STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.                                   | EACH  | 1              |
| CONCRETE FOUNDATION, TYPE A  | FOOT  | 12             |
| CONCRETE FOUNDATION, TYPE C  | FOOT  | 4              |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER                               | FOOT  | 48             |
| DRILL EXISTING HANDHOLE  | EACH  | 1              |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED                      | EACH  | 6              |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED                      | EACH  | 5              |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                       | EACH  | 5              |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER | EACH  | 8              |
| TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC                                   | EACH  | 12             |
| INDUCTIVE LOOP DETECTOR  | EACH  | 10             |
| DETECTOR LOOP, TYPE I  | FOOT  | 1028           |
| PEDESTRIAN PUSH-BUTTON   | EACH  | 8              |
| TEMPORARY TRAFFIC SIGNAL INSTALLATION                                      | EACH  | 1              |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT         | EACH  | 2              |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT          | EACH  | 1              |
| REMOVE EXISTING HANDHOLE   | EACH  | 10             |
| REMOVE EXISTING CONCRETE FOUNDATION  | EACH  | 8              |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                   | EACH  | 1              |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C            | FOOT  | 247            |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL                                      | EACH  | 1              |
| TEMPORARY TRAFFIC SIGNAL TIMING  | EACH  | 1              |
| FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)                | EACH  | 1              |

\*100% COST TO LOCAL ALSIP

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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 PLOT SCALE = 1/8"=1'-0"  
 PLOT DATE = 7/10/2015



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| DRAWN - RAW      | REVISED - |
| CHECKED - TVN    | REVISED - |
| DATE - 7/10/2015 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

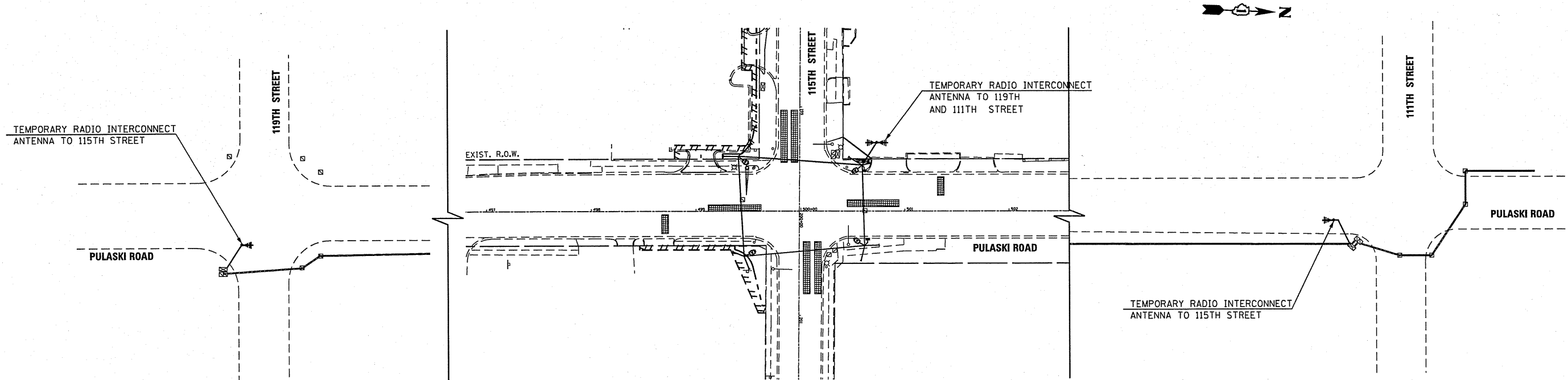
**MAST ARM MOUNTED STREET NAME SIGNS  
 AND SCHEDULE OF QUANTITIES  
 PULASKI ROAD AT 115TH STREET**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

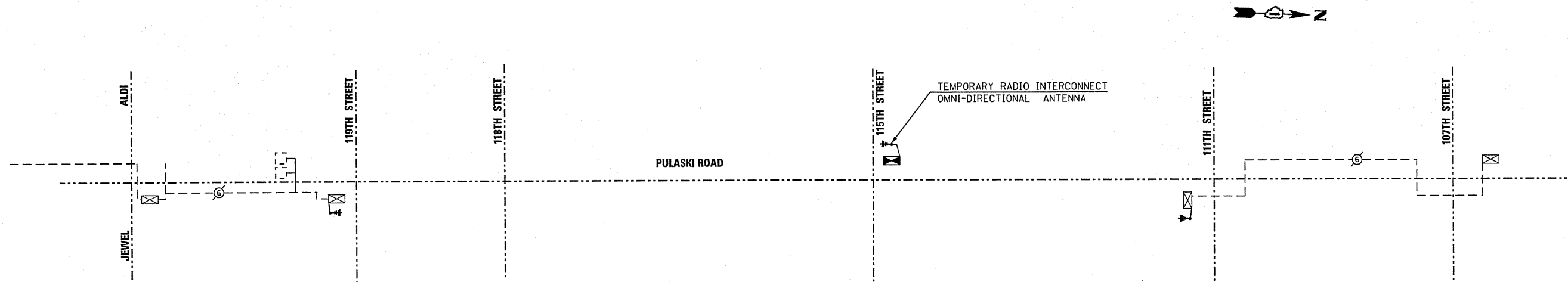
| F.A.U. RTE. | SECTION     | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------|--------|--------------|-----------|
| 1583        | 0303-RS & N | COOK   | 87           | 38        |

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 60V52

TS#3960



**TEMPORARY INTERCONNECT SCHEMATIC**



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 USER NAME : MUSEBNAME



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| CHECKED - TVN    | REVISED - |
| DATE - 7/10/2015 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SYSTEM/SCHEMATIC PLAN  
 PULASKI ROAD (CRAWFORD AVE) 119TH STREET TO 111TH STREET**

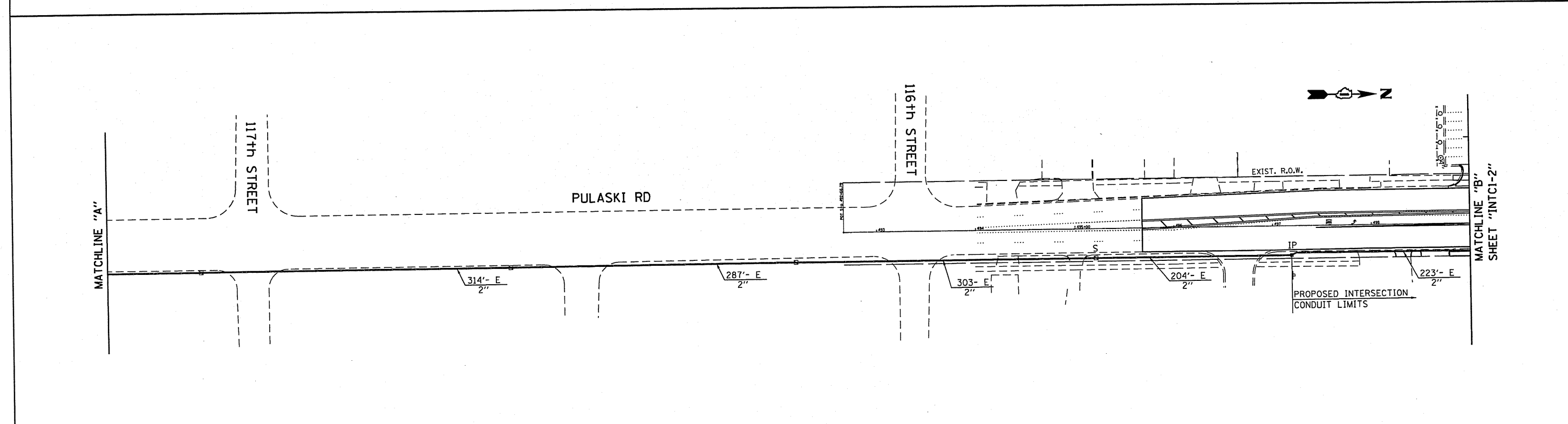
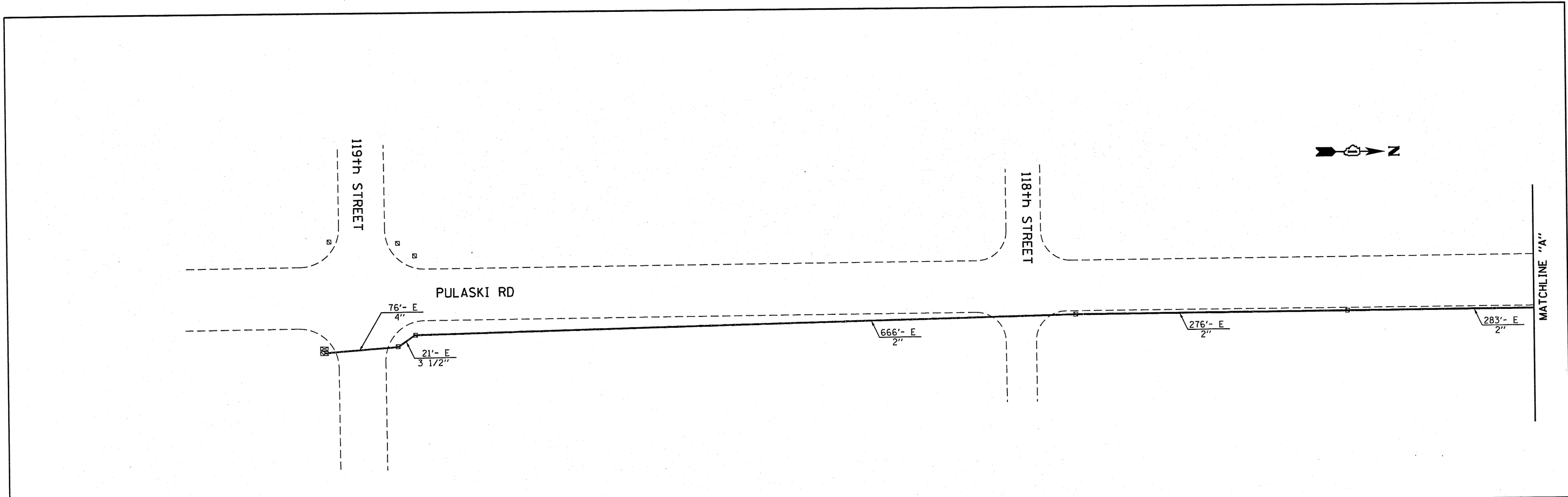
SCALE: N/A SHEET NO. 5 OF 8 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION     | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------|--------|--------------|-----------|
| 1583        | 0303-RS & N | COOK   | 87           | 39        |

CONTRACT NO. 60V52


FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT  
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TS#3960



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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 PLOT SCALE = 1/8"=20' / 1"=160'  
 USER NAME = BUSERNAME



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| DESIGNED - JP    | REVISED - |
| DRAWN - RAW      | REVISED - |
| CHECKED - TVN    | REVISED - |
| DATE - 7/10/2015 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN - ECON 129 (SHEET 1 OF 2)  
 PULASKI ROAD (CRAWFORD AVE) 127TH STREET TO 93RD STREET**

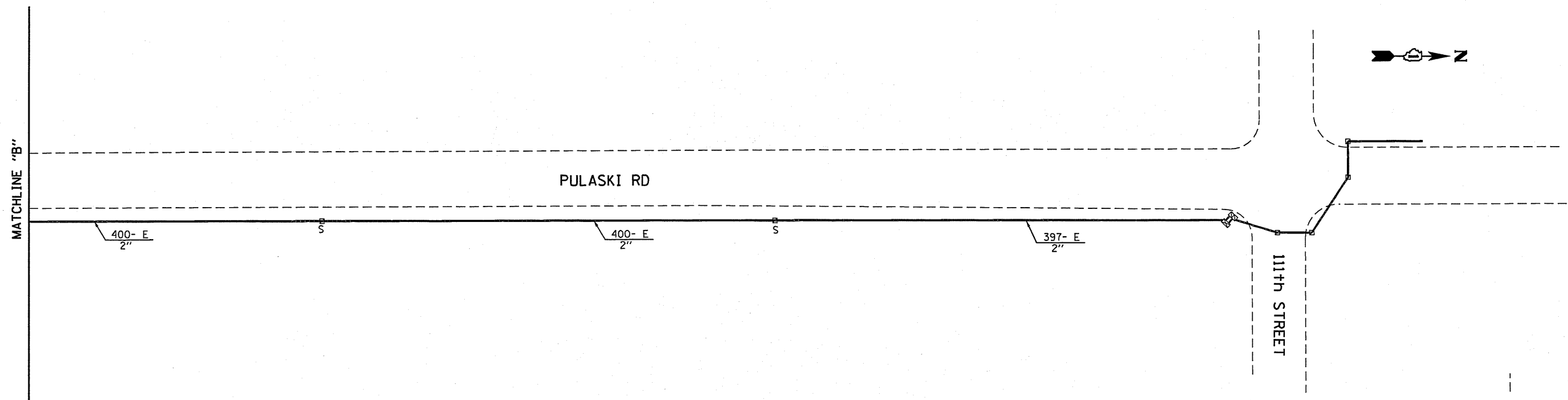
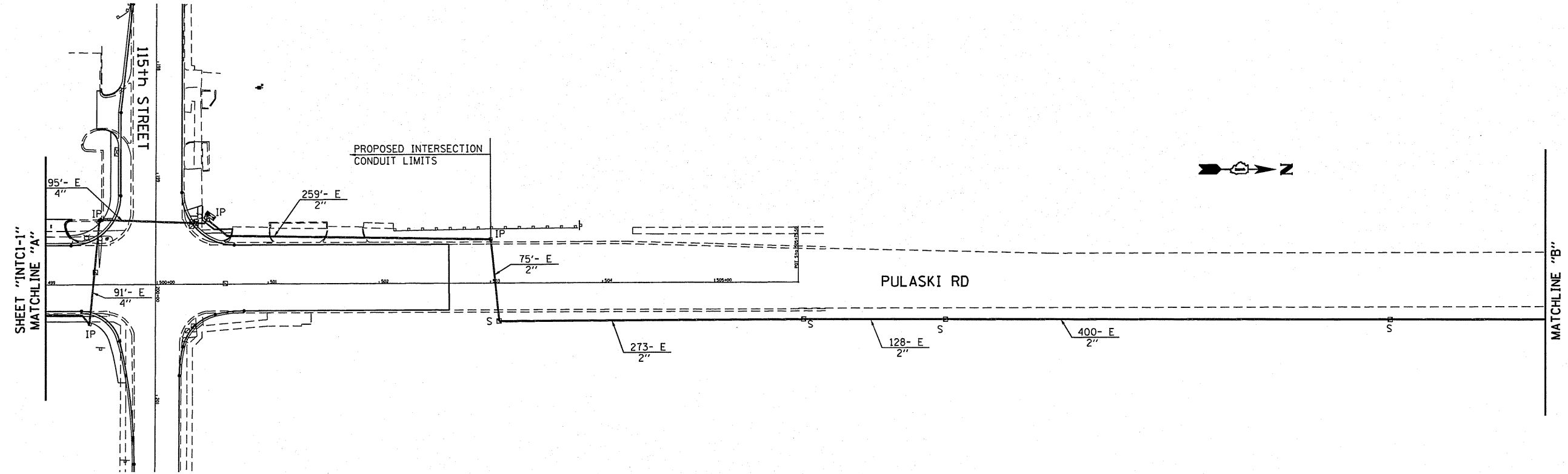
SCALE: 1"=20'    SHEET NO. OF 2 SHEETS    STA. TO STA.

|   |             |        |                    |           |
|---|-------------|--------|--------------------|-----------|
| F.A.J. RTE.                                     | SECTION     | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 1583  | 0303-RS & N | COOK   | 87                 | 40        |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |             |        | CONTRACT NO. 60V52 |           |

TS#3960  
 ECON 129

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THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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 USER NAME: USERNAME\$



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| DRAWN    | - RAW       | REVISED | - |
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| DATE     | - 7/10/2015 | REVISED | - |

**STATE OF ILLINOIS  
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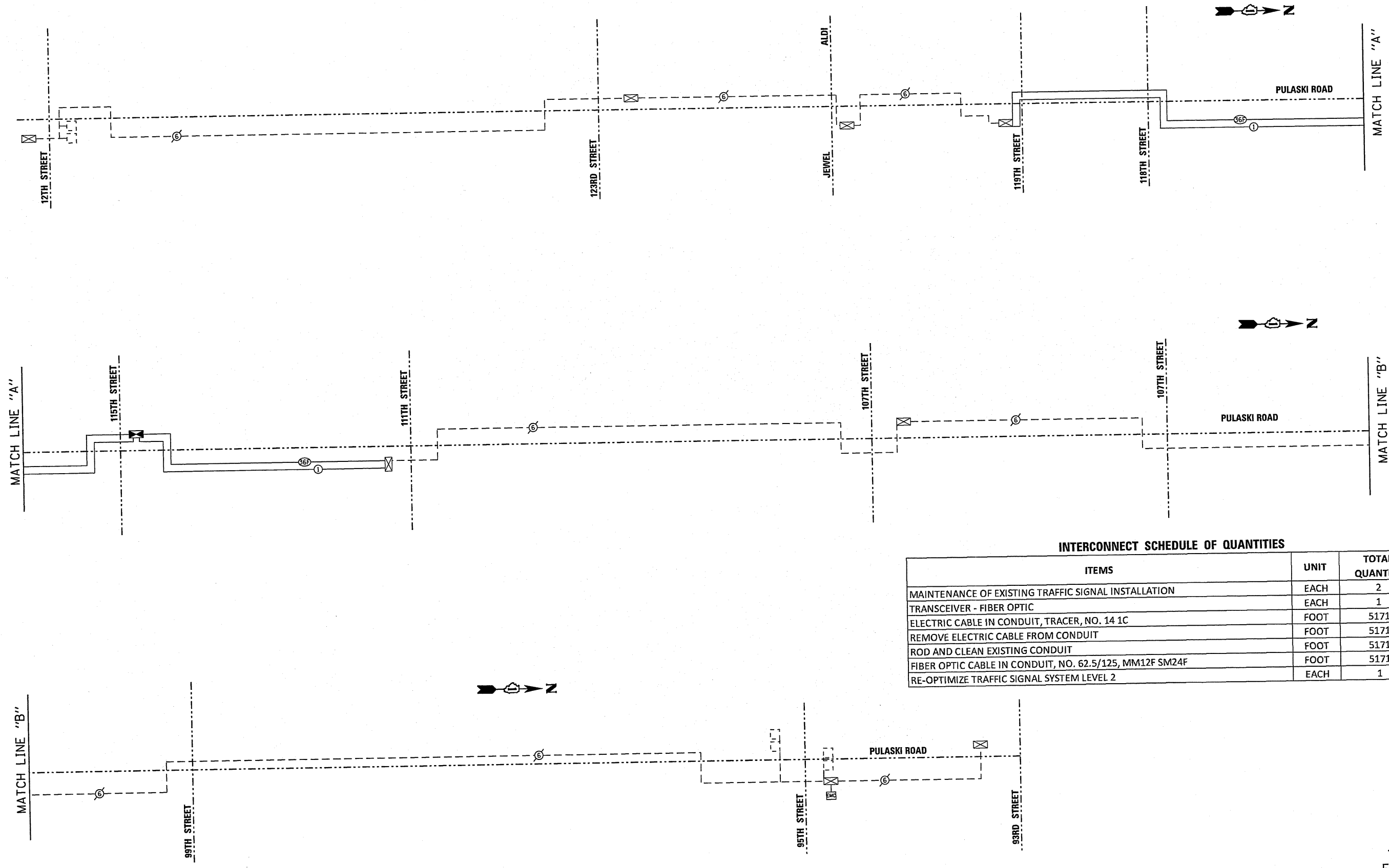
**INTERCONNECT PLAN - ECON 129 (SHEET 2 OF 2)  
PULASKI ROAD (CRAWFORD AVE) 127TH STREET TO 93RD STREET**

SCALE: 1"=20' SHEET NO. OF 2 SHEETS STA. TO STA.

| F.A.J. RTE.                                     | SECTION     | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---|-------------|--------|--------------------|-----------|
| 1583  | 0303-RS & N | COOK   | 87                 | 41        |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |             |        | CONTRACT NO. 60V52 |           |

TS-3960  
ECON 129


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INTERCONNECT SCHEDULE OF QUANTITIES

| ITEMS   | UNIT | TOTAL QUANTITY |
|---|------|----------------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION     | EACH | 2              |
| TRANSCEIVER - FIBER OPTIC                               | EACH | 1              |
| ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C            | FOOT | 5171           |
| REMOVE ELECTRIC CABLE FROM CONDUIT                      | FOOT | 5171           |
| ROD AND CLEAN EXISTING CONDUIT                          | FOOT | 5171           |
| FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F | FOOT | 5171           |
| RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2               | EACH | 1              |

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 USER NAME = JPERINAME



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| DRAWN - RAW      | REVISED - |
| CHECKED - TVN    | REVISED - |
| DATE - 7/10/2015 | REVISED - |

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

**INTERCONNECT SCHEMATIC - ECON 129**  
**PULASKI ROAD (CRAWFORD AVE) 127TH STREET TO 93RD STREET**  
 SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.

|   |                     |             |                 |              |
|---|---------------------|-------------|-----------------|--------------|
| F.A.J. RTE. 1583                                | SECTION 0303-RS & N | COUNTY COOK | TOTAL SHEETS 87 | SHEET NO. 42 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                     |             |                 |              |
| CONTRACT NO. 60V52                              |                     |             |                 |              |

TS#3960  
 ECON 129

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# TRAFFIC SIGNAL LEGEND

| ITEM  | REMOVAL | EXISTING | PROPOSED | ITEM  | REMOVAL | EXISTING | PROPOSED | ITEM   | REMOVAL | EXISTING | PROPOSED |
|---|---------|----------|----------|---|---------|----------|----------|--|---------|----------|----------|
| CONTROLLER CABINET  |         |          |          | EMERGENCY VEHICLE LIGHT DETECTOR  |         |          |          | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE                    |         |          |          |
| RAILROAD CONTROL CABINET  |         |          |          | CONFIRMATION BEACON   |         |          |          | COAXIAL CABLE  |         |          |          |
| COMMUNICATIONS CABINET  |         |          |          | HANDHOLE  |         |          |          | VENDOR CABLE FOR CAMERA  |         |          |          |
| MASTER CONTROLLER   |         |          |          | HEAVY DUTY HANDHOLE   |         |          |          | COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED                               |         |          |          |
| MASTER MASTER CONTROLLER  |         |          |          | DOUBLE HANDHOLE   |         |          |          | FIBER OPTIC CABLE NO. 62.5/125, MM12F  |         |          |          |
| UNINTERRUPTIBLE POWER SUPPLY  |         |          |          | JUNCTION BOX  |         |          |          | FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F  |         |          |          |
| SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT                        |         |          |          | UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)  |         |          |          | FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F  |         |          |          |
| TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT                         |         |          |          | TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE   |         |          |          | FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F  |         |          |          |
| STEEL MAST ARM ASSEMBLY AND POLE  |         |          |          | COMMON TRENCH   |         |          |          | GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE       |         |          |          |
| ALUMINUM MAST ARM ASSEMBLY AND POLE                                       |         |          |          | COILABLE NONMETALLIC CONDUIT (EMPTY)  |         |          |          | CONTROLLER CABINET AND FOUNDATION TO BE REMOVED  |         |          |          |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE               |         |          |          | SYSTEM ITEM   |         | S        |          | STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED   |         |          |          |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA              |         |          |          | INTERSECTION ITEM   |         | I        |          | ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED                                      |         |          |          |
| SIGNAL POST   |         |          |          | REMOVE ITEM   | R       |          |          | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED |         |          |          |
| TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM           |         |          |          | RELOCATE ITEM   | RL      |          |          | SIGNAL POST AND FOUNDATION TO BE REMOVED   |         |          |          |
| GUY WIRE  |         |          |          | ABANDON ITEM  | A       |          |          | INTERSECTION & SAMPLING (SYSTEM) DETECTOR  |         |          |          |
| SIGNAL HEAD   |         |          |          | 12" (300mm) TRAFFIC SIGNAL SECTION  |         |          |          | SAMPLING (SYSTEM) DETECTOR   |         |          |          |
| SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE) |         |          |          | 12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE  |         |          |          | QUEUE DETECTOR   |         |          |          |
| SIGNAL HEAD WITH BACKPLATE  |         |          |          | SIGNAL FACE   |         |          |          | PREFORMED QUEUE DETECTOR   |         |          |          |
| SIGNAL HEAD OPTICALLY PROGRAMMED  |         |          |          | SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD   |         |          |          | PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR                                    |         |          |          |
| FLASHER INSTALLATION (S DENOTES SOLAR POWER)                              |         |          |          | "RB" INDICATES REFLECTIVE BACKPLATE   |         |          |          | PREFORMED SAMPLING (SYSTEM) DETECTOR   |         |          |          |
| PEDESTRIAN SIGNAL HEAD  |         |          |          | 12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL   |         |          |          |  |         |          |          |
| PEDESTRIAN PUSHBUTTON DETECTOR  |         |          |          | 12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED   |         |          |          |  |         |          |          |
| ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR                                 |         |          |          | 12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID  |         |          |          |  |         |          |          |
| ILLUMINATED SIGN "NO LEFT TURN"   |         |          |          | PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER  |         |          |          |  |         |          |          |
| ILLUMINATED SIGN "NO RIGHT TURN"  |         |          |          | RADIO INTERCONNECT  |         |          |          |  |         |          |          |
| DETECTOR LOOP, TYPE I   |         |          |          | RADIO REPEATER  |         |          |          |  |         |          |          |
| PREFORMED DETECTOR LOOP   |         |          |          | DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED |         |          |          |  |         |          |          |
| MICROWAVE VEHICLE SENSOR  |         |          |          | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)  |         |          |          |  |         |          |          |
| VIDEO DETECTION CAMERA  |         |          |          |   |         |          |          |  |         |          |          |
| VIDEO DETECTION ZONE  |         |          |          |   |         |          |          |  |         |          |          |
| PAN, TILT, ZOOM CAMERA  |         |          |          |   |         |          |          |  |         |          |          |
| WIRELESS DETECTOR SENSOR  |         |          |          |   |         |          |          |  |         |          |          |
| WIRELESS ACCESS POINT   |         |          |          |   |         |          |          |  |         |          |          |

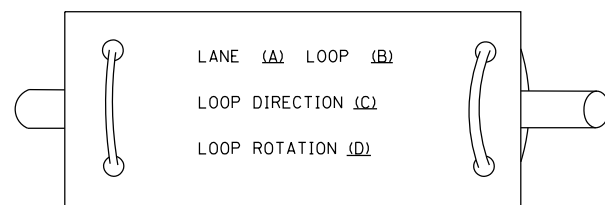
## RAILROAD SYMBOLS

|                              | EXISTING | PROPOSED |
|------------------------------|----------|----------|
| RAILROAD CONTROL CABINET     |          |          |
| RAILROAD CANTILEVER MAST ARM |          |          |
| FLASHING SIGNAL              |          |          |
| CROSSING GATE                |          |          |
| CROSSBUCK                    |          |          |

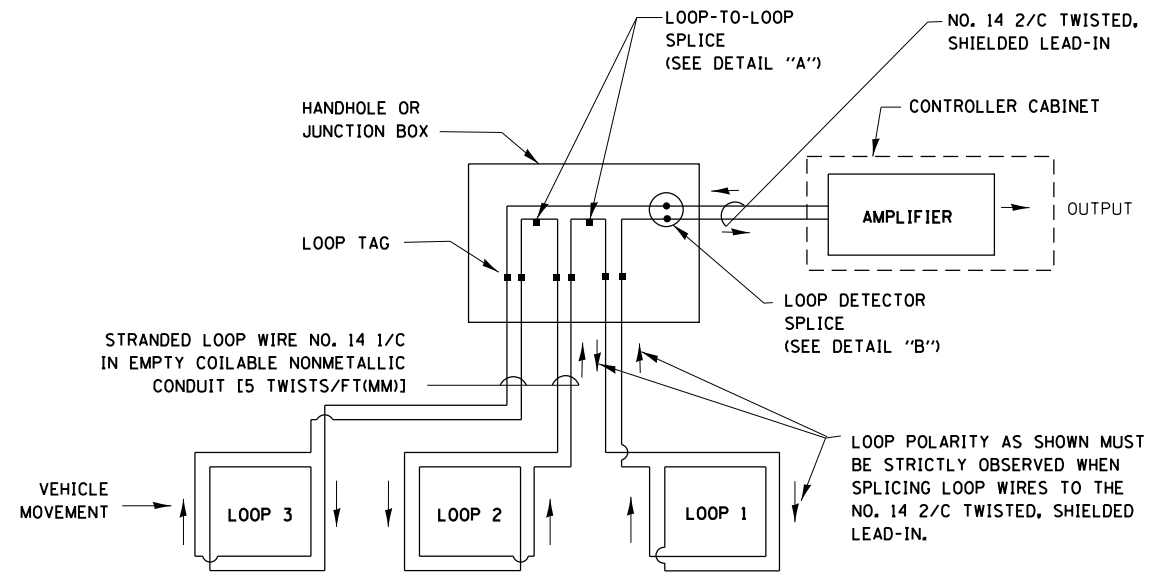
**LOOP DETECTOR NOTES**

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**

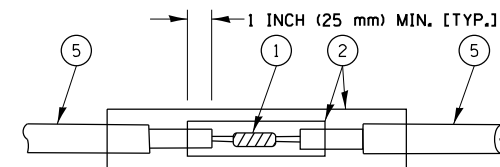


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

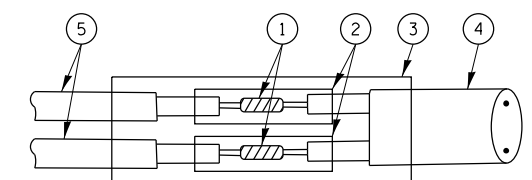


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

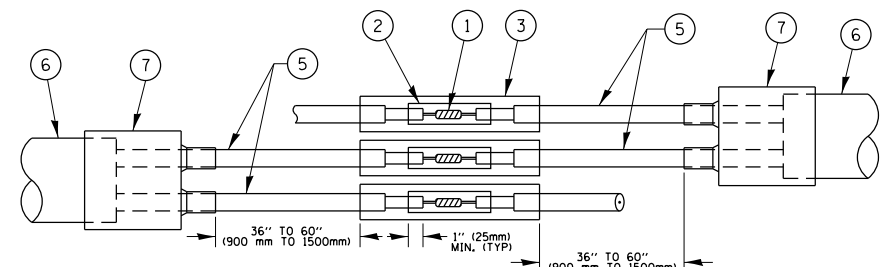


**DETAIL "A"  
LOOP-TO-LOOP SPLICE**

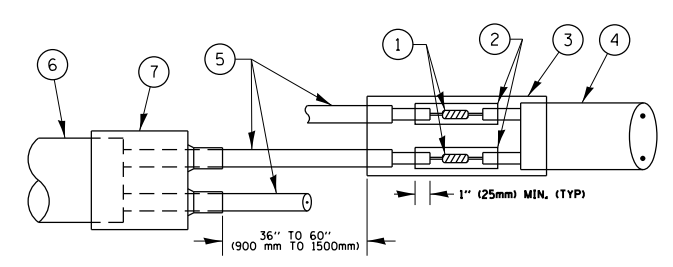


**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

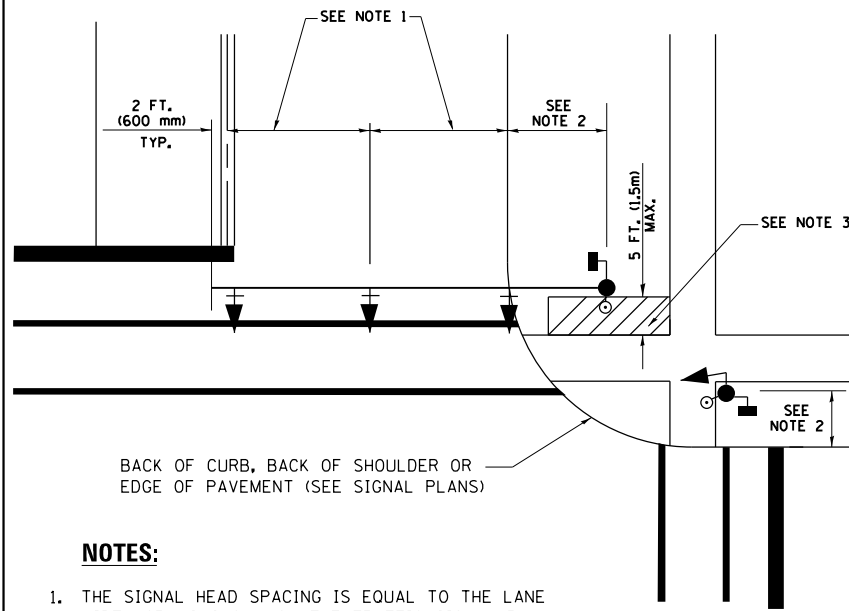
**PRE-FORMED LOOP**

**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.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

|   |                              |                |                      |   |  |                         |      |             |   |           |                           |           |    |
|---|------------------------------|----------------|----------------------|---|--|-------------------------|------|-------------|---|-----------|---------------------------|-----------|----|
| FILE NAME =   | USER NAME = pyznowskirb      | DESIGNED - DAD | REVISED - DAG 1-1-14 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DISTRICT ONE<br/>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b> |                         |      | F.A.U. RTE. | SECTION   | COUNTY    | TOTAL SHEETS              | SHEET NO. |    |
| p:\1\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI2511\Drawings\Design\025112-shr-cover.dgn | PLOT SCALE = 100.0000' / in. | CHECKED - DAD  | REVISED -            |   | SCALE: NONE  | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.     | 1583  | 0303-RS&N | COOK                      | 87        | 44 |
| PLOT DATE = 7/10/2015   | DATE - 10-28-09              | REVISED -      |                      |   |  |                         |      |             | <b>TS-05</b>                                    |           | <b>CONTRACT NO. 60V52</b> |           |    |
|   |                              |                |                      |   |  |                         |      |             | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                           |           |    |

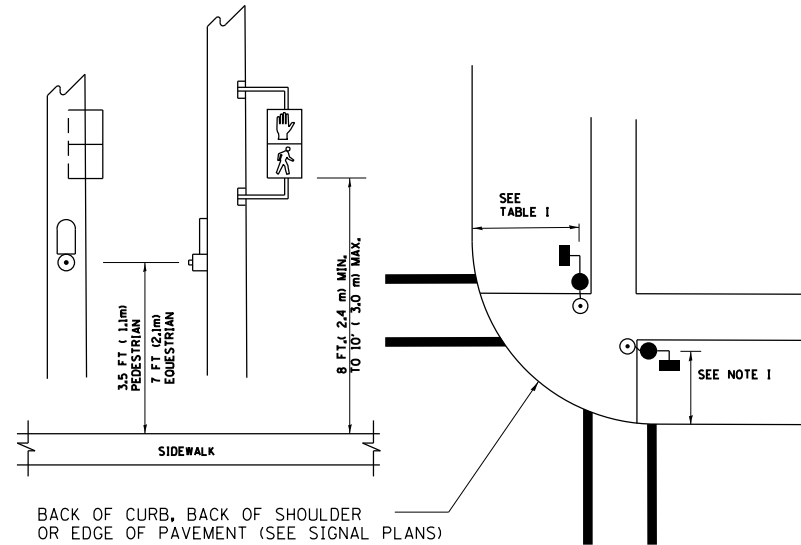
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

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

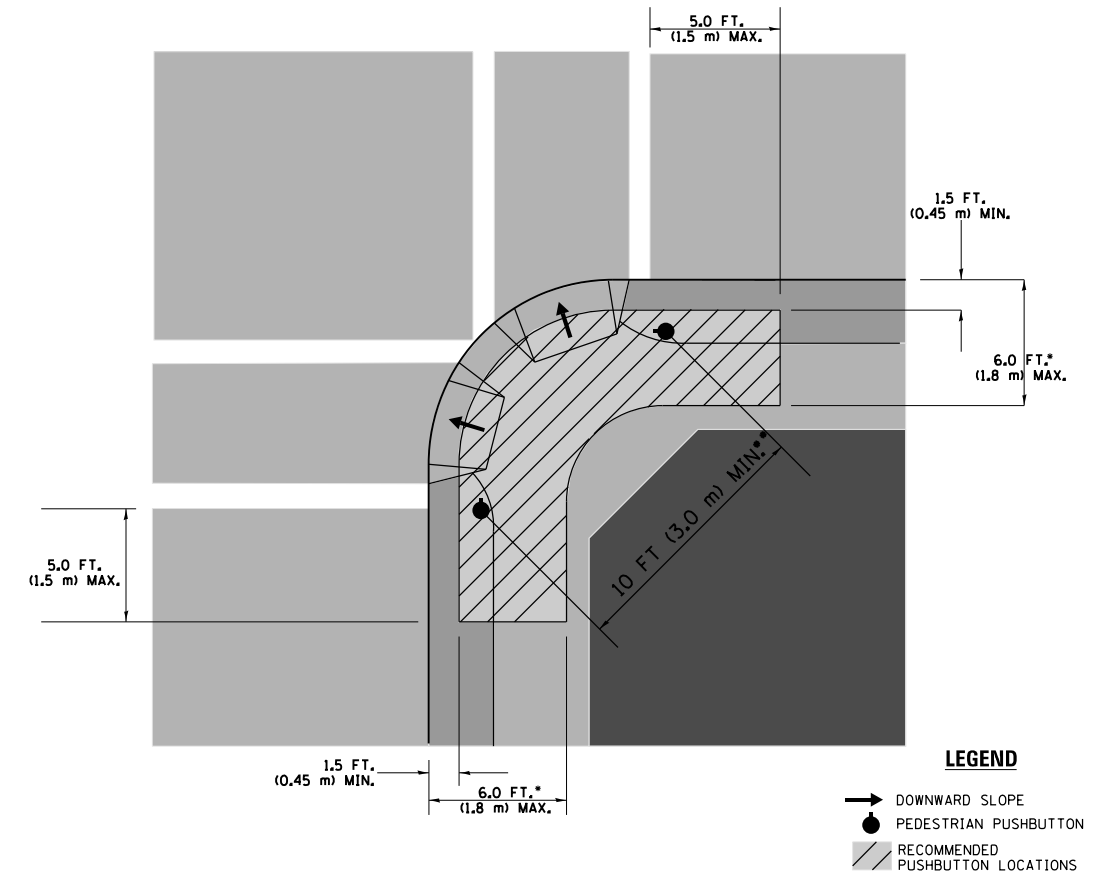
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

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

**RECOMMENDED PUSHBUTTON LOCATIONS**



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

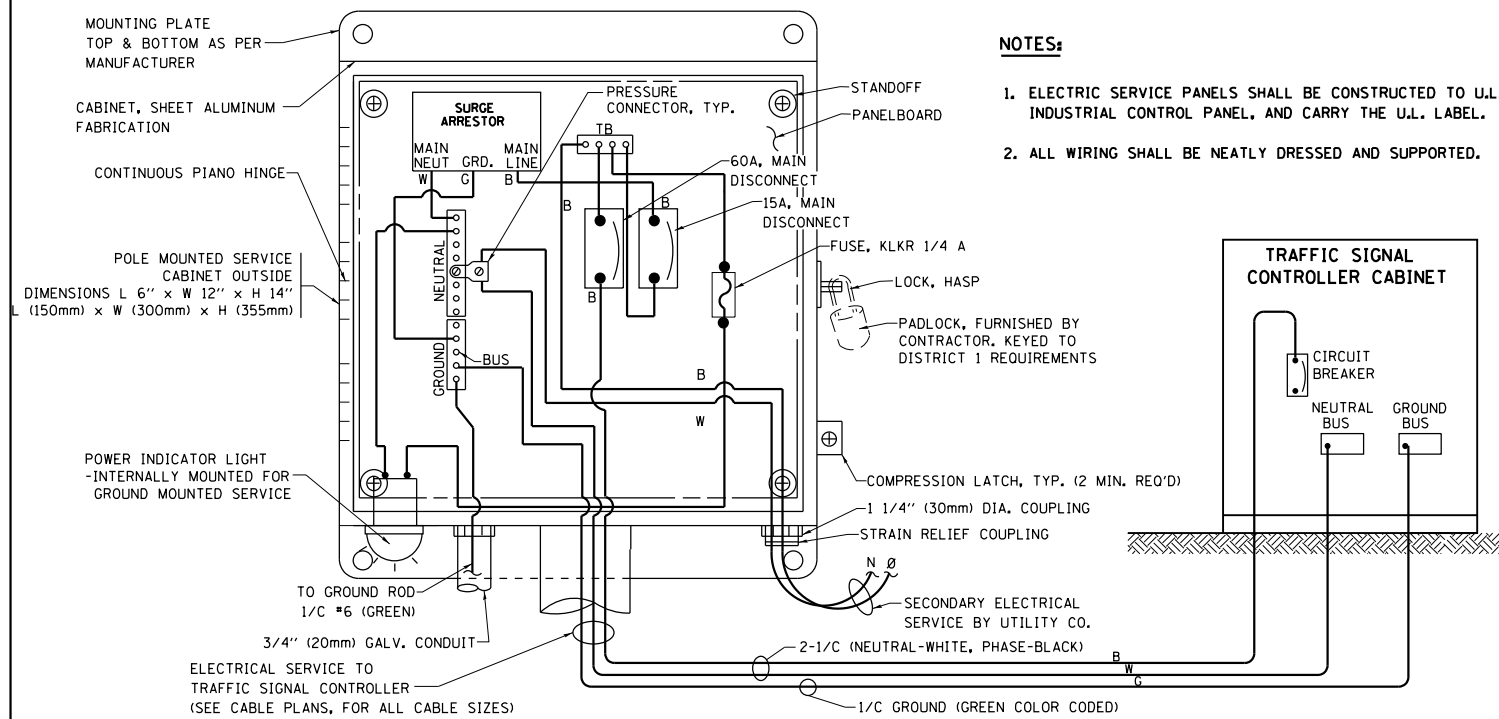
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

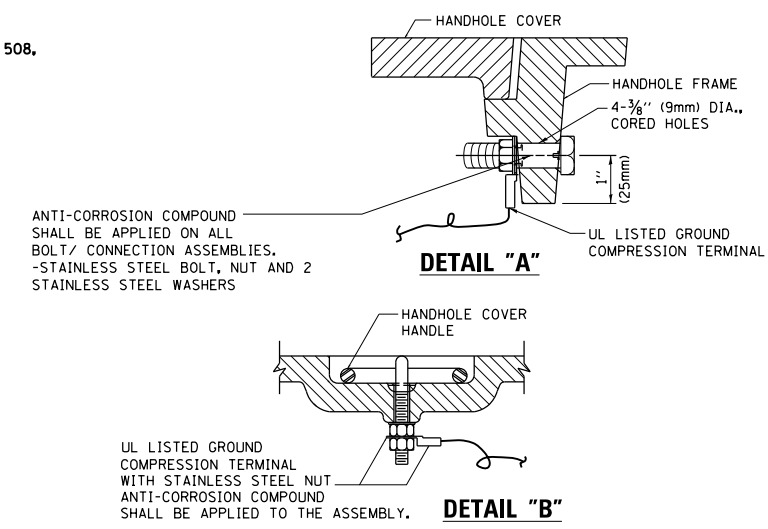
| TRAFFIC SIGNAL EQUIPMENT           | COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION) | SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION) |
|------------------------------------|---|---|
| TRAFFIC SIGNAL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

**NOTES:**

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

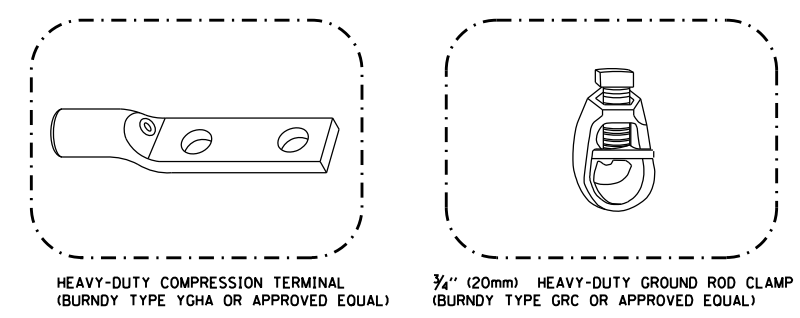
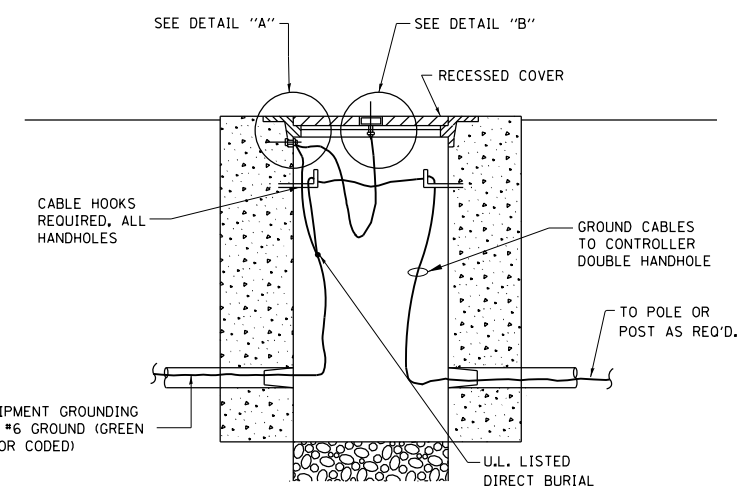


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)  
SERVICE INSTALLATION POLE MOUNT (SHOWN)  
(NOT TO SCALE)**

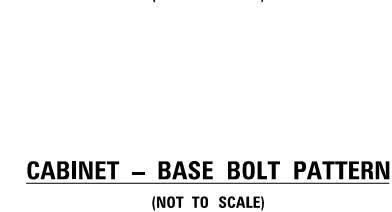
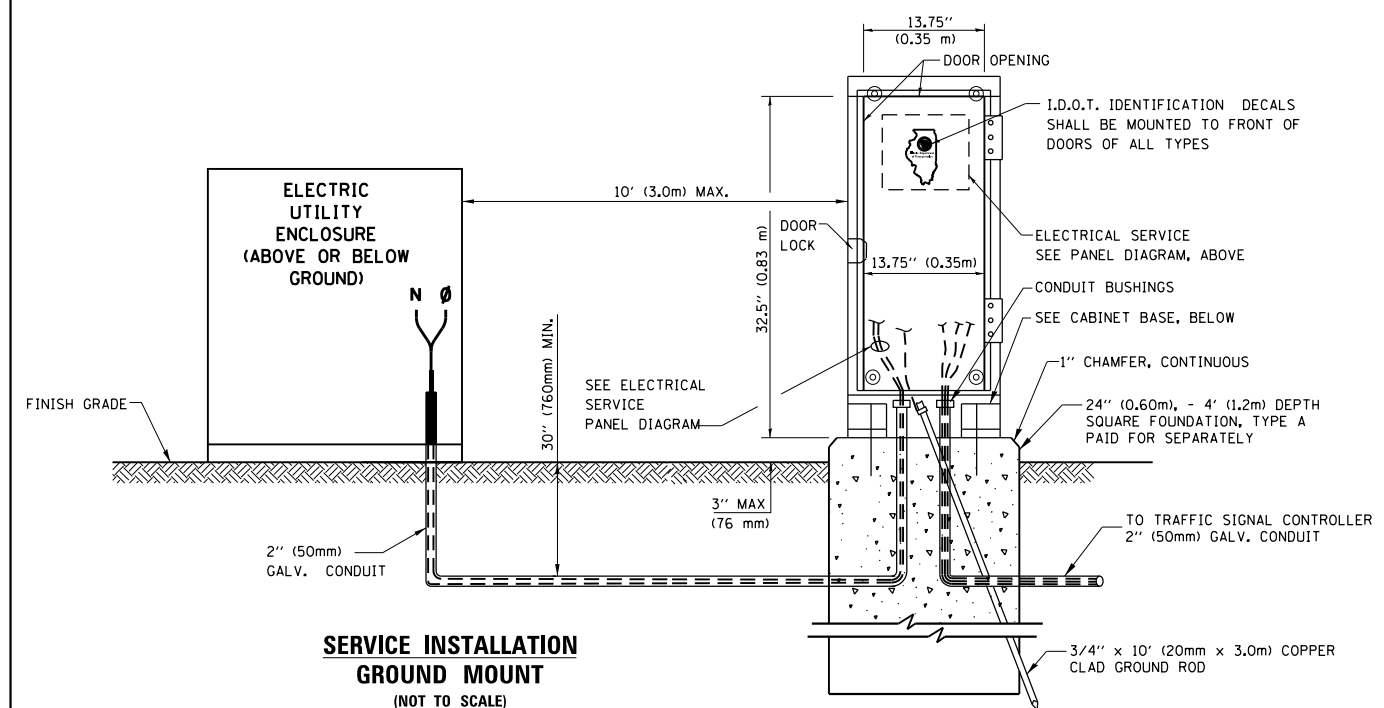
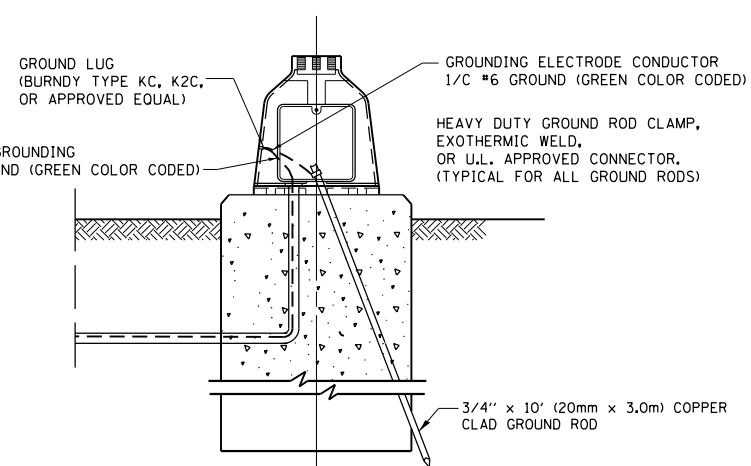
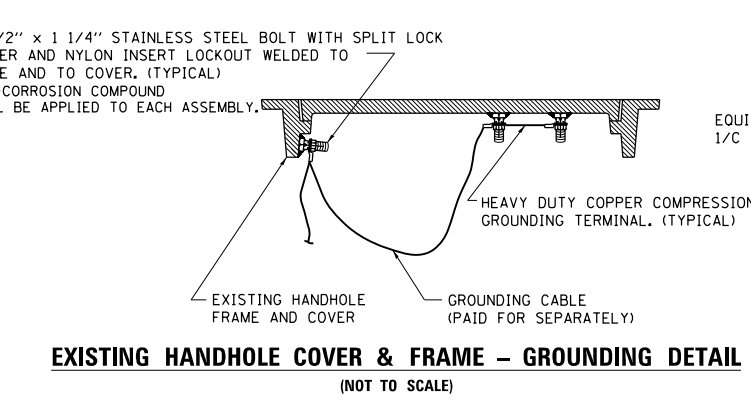


**NOTES:  
GROUNDING SYSTEM**

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



- 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.

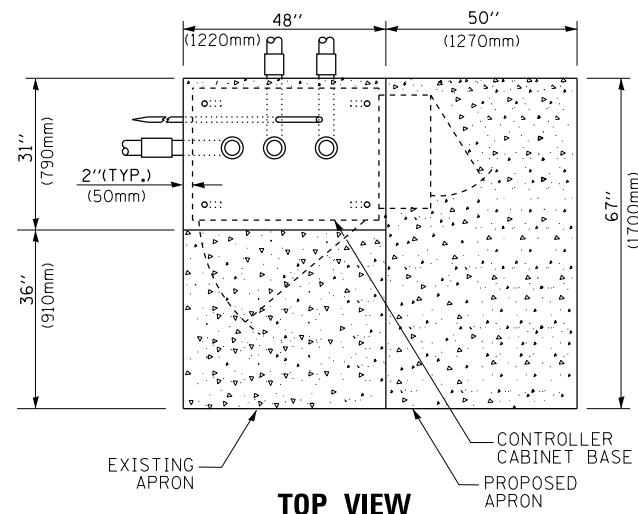


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| PLOT SCALE = 100.0000' / in.   |                         | DATE - 10-28-09 | REVISED -            |
| PLOT DATE = 7/10/2015  |                         |                 |                      |

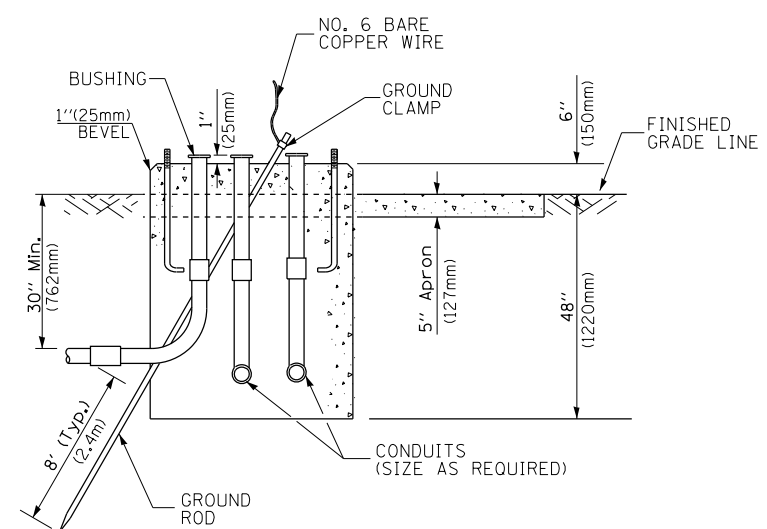
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|   |                         |      |         |
|---|-------------------------|------|---------|
| <b>DISTRICT ONE</b>                           |                         |      |         |
| <b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b> |                         |      |         |
| SCALE: NONE                                   | SHEET NO. 4 OF 7 SHEETS | STA. | TO STA. |

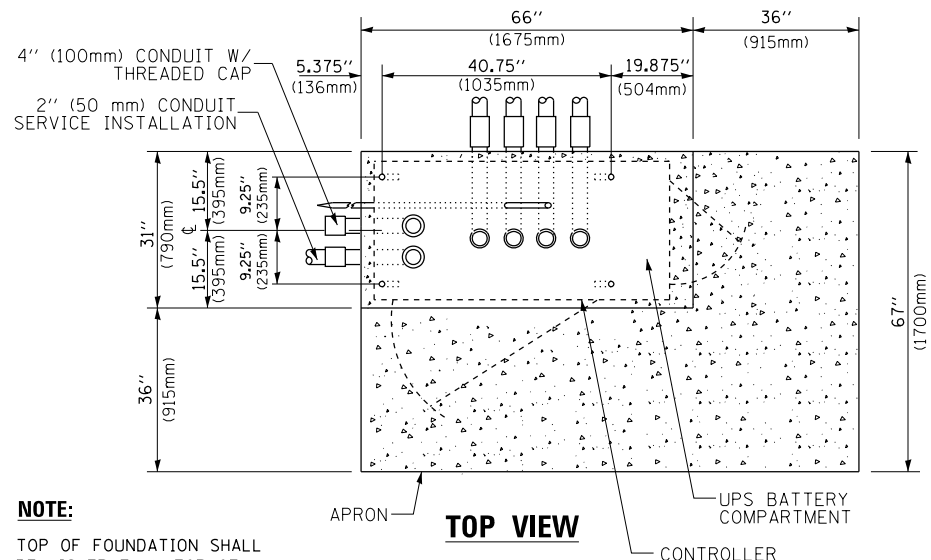
|   |           |                           |              |           |
|---|-----------|---------------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION   | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 1583  | 0303-RS&N | COOK                      | 87           | 46        |
| <b>TS-05</b>                                    |           | <b>CONTRACT NO. 60V52</b> |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                           |              |           |



**TOP VIEW**

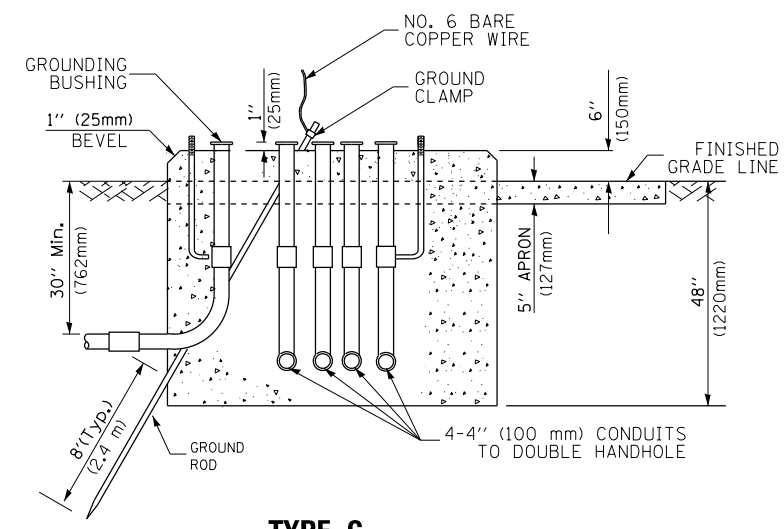


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

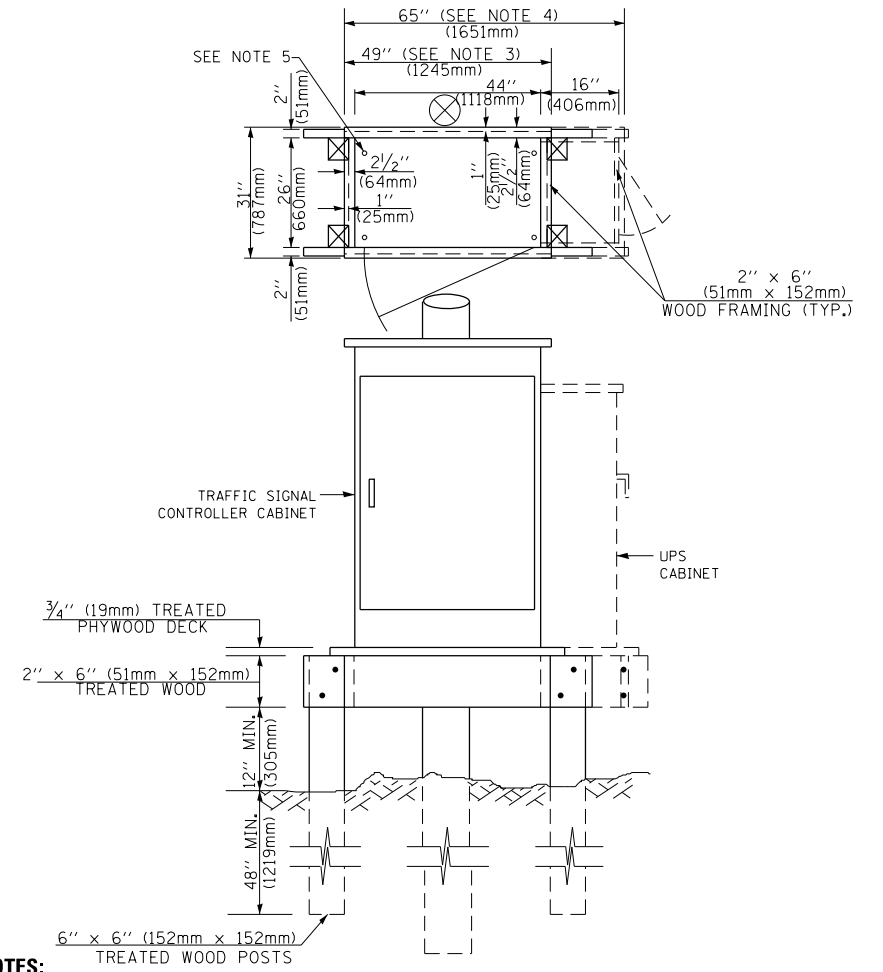


**TOP VIEW**

**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) |

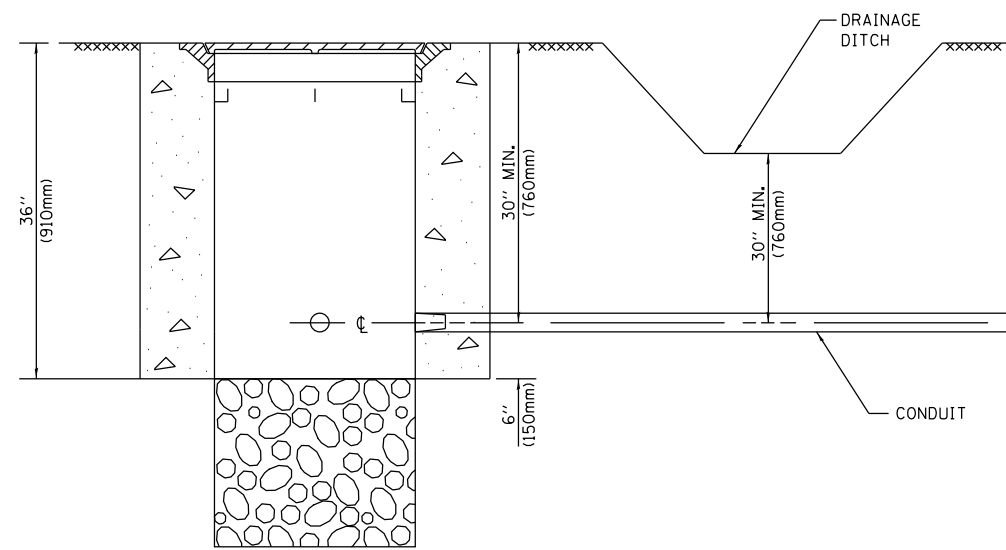
**DEPTH OF FOUNDATION**

| 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)         | 24" (600mm)     | 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)          |
| Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)     | 25'-0" (7.6 m)     | 42" (1060mm)        | 36" (900mm)     | 16                 | 8(25)          |

**NOTES:**

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

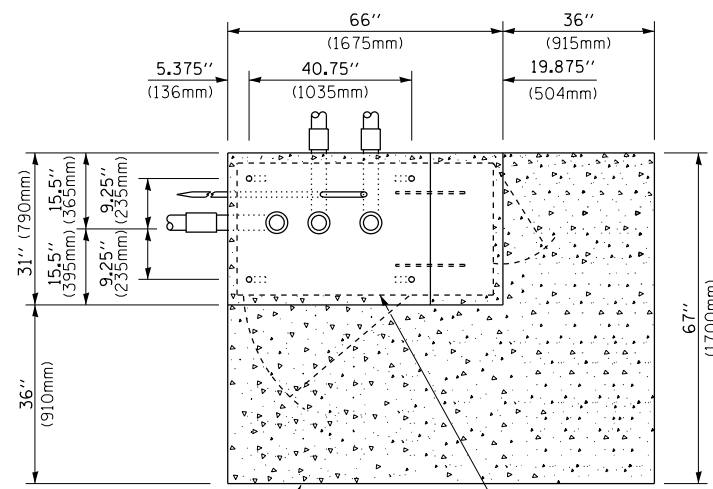
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**



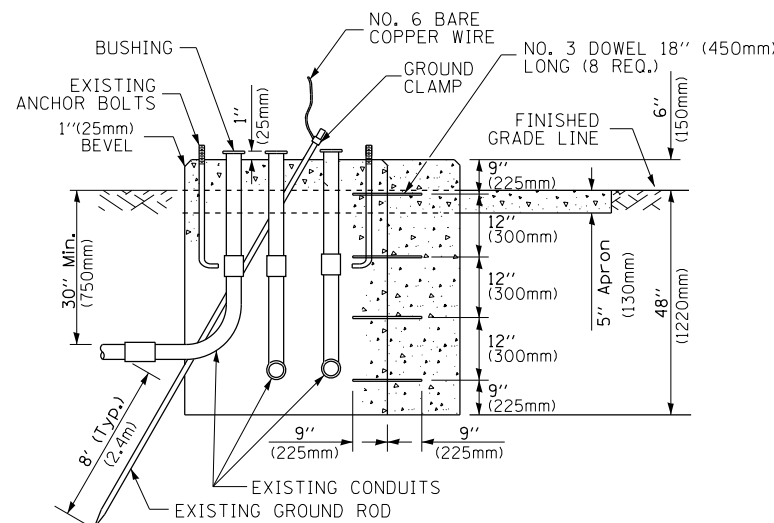
**NOTES:**

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

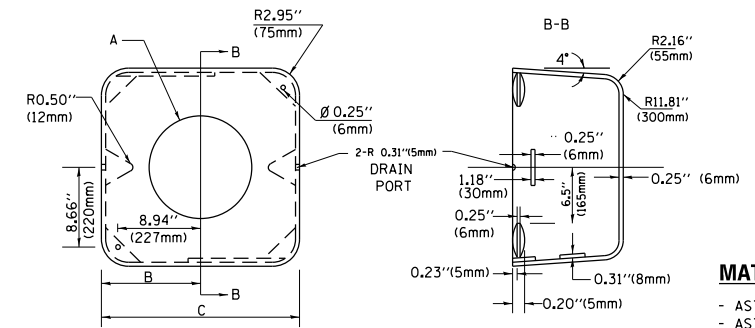
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**TOP VIEW**  
(NOT TO SCALE)



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



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

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

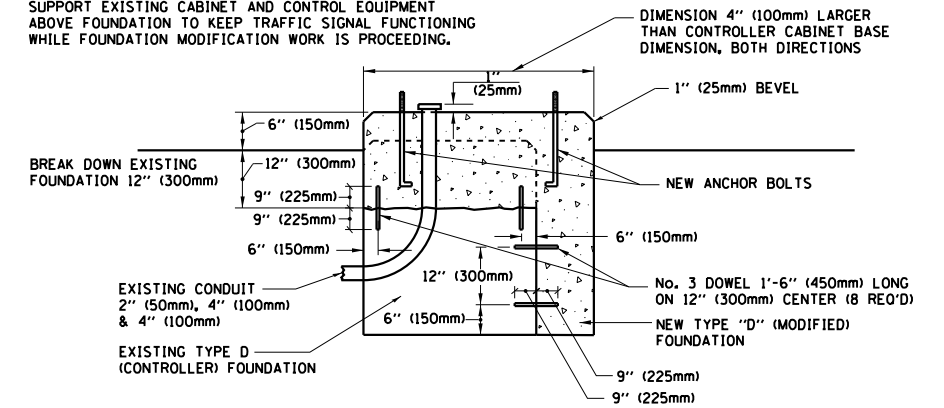
**SHROUD**

**NOTES:**

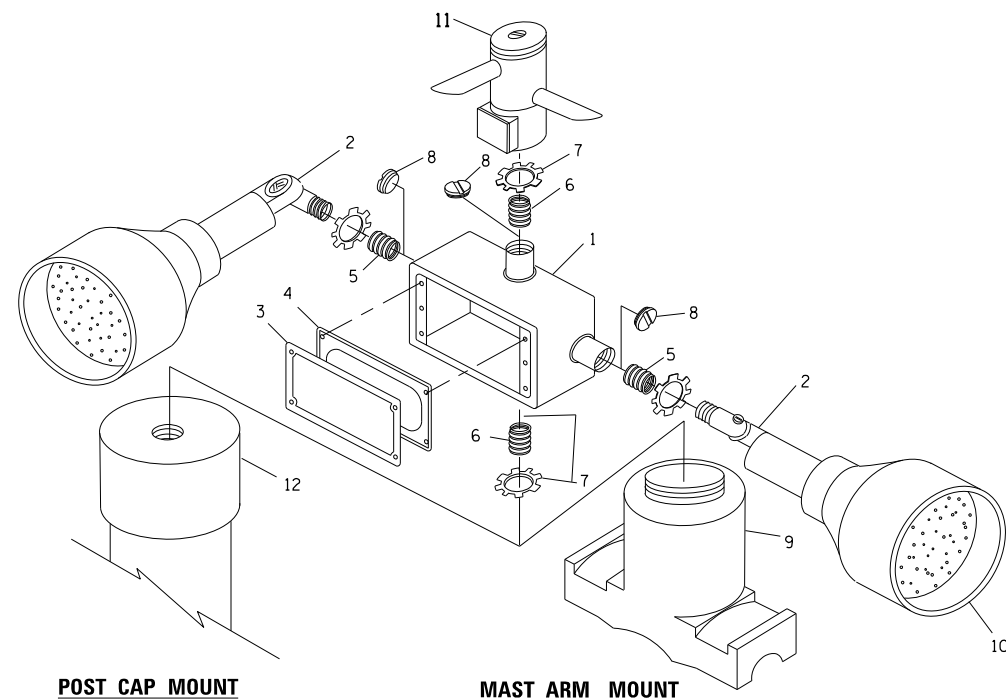
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**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**

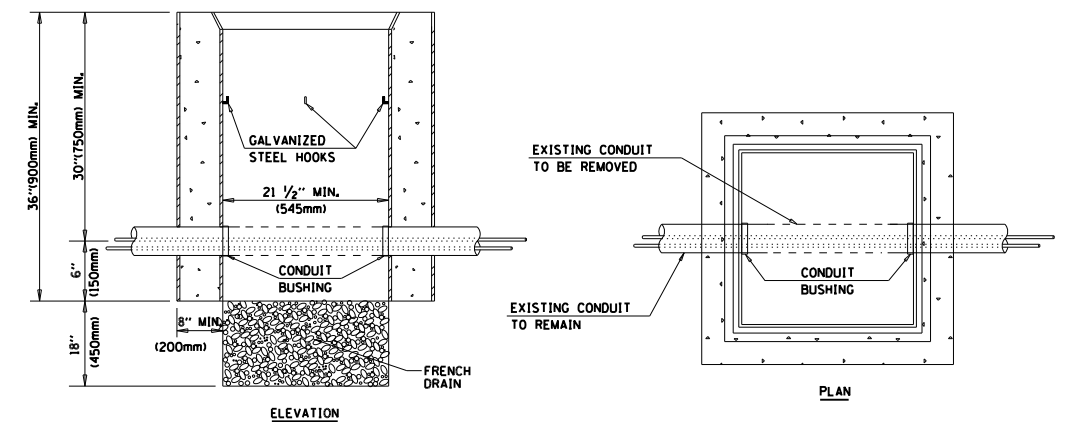


**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**

| 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**

|  |                         |                 |                      |
|--|-------------------------|-----------------|----------------------|
| FILE NAME =  | USER NAME = pyrzezowski | DESIGNED - DAD  | REVISED - DAG 1-1-14 |
| pw:\11084EBID\INTEG\11inois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI2511\Drawings\Design\035112-shd-cover.dgn |                         | CHECKED - DAD   | REVISED -            |
| PLOT SCALE = 100.0000' / 1in.  |                         | DATE - 10-28-09 | REVISED -            |
| PLOT DATE = 7/10/2015  |                         |                 |                      |

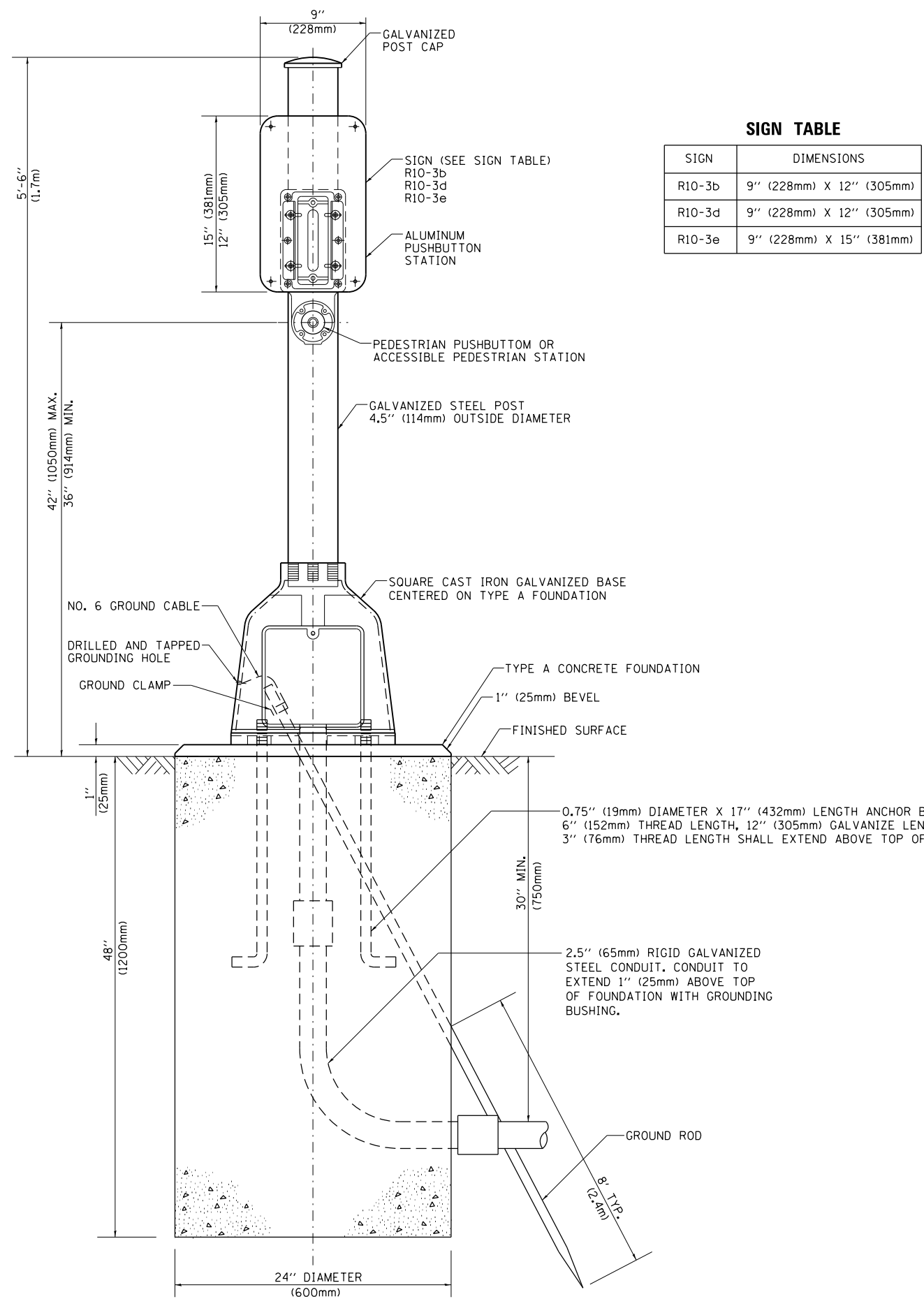
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

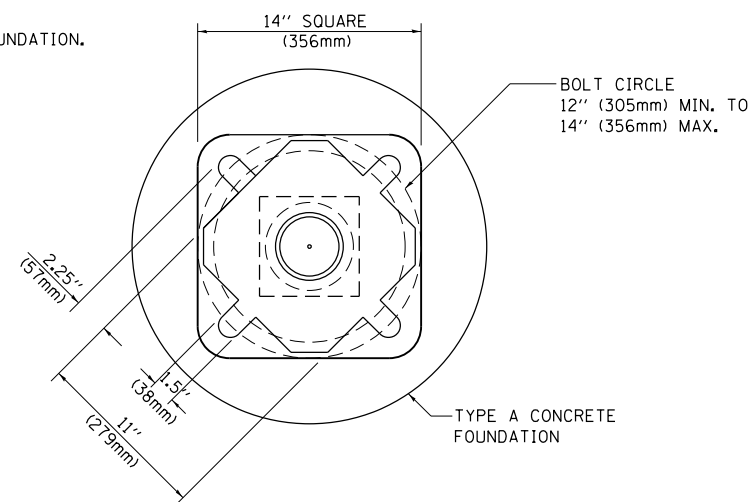
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|---|-----------|---------------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION   | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 1583  | 0303-RS&N | COOK                      | 87           | 48        |
| <b>TS-05</b>                                    |           | <b>CONTRACT NO. 60V52</b> |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                           |              |           |





**SIGN TABLE**

| SIGN   | DIMENSIONS               |
|--------|--------------------------|
| R10-3b | 9" (228mm) X 12" (305mm) |
| R10-3d | 9" (228mm) X 12" (305mm) |
| R10-3e | 9" (228mm) X 15" (381mm) |



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

|   |                           |                  |                      |
|---|---------------------------|------------------|----------------------|
| FILE NAME =   | USER NAME = pyzzenowskirb | DESIGNED - DAG   | REVISED - DAG 1-1-14 |
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| PLOT SCALE = 100.0000' / 1"   |                           | DATE - 10/1/2012 | REVISED -            |
| PLOT DATE = 7/10/2015   |                           |                  |                      |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

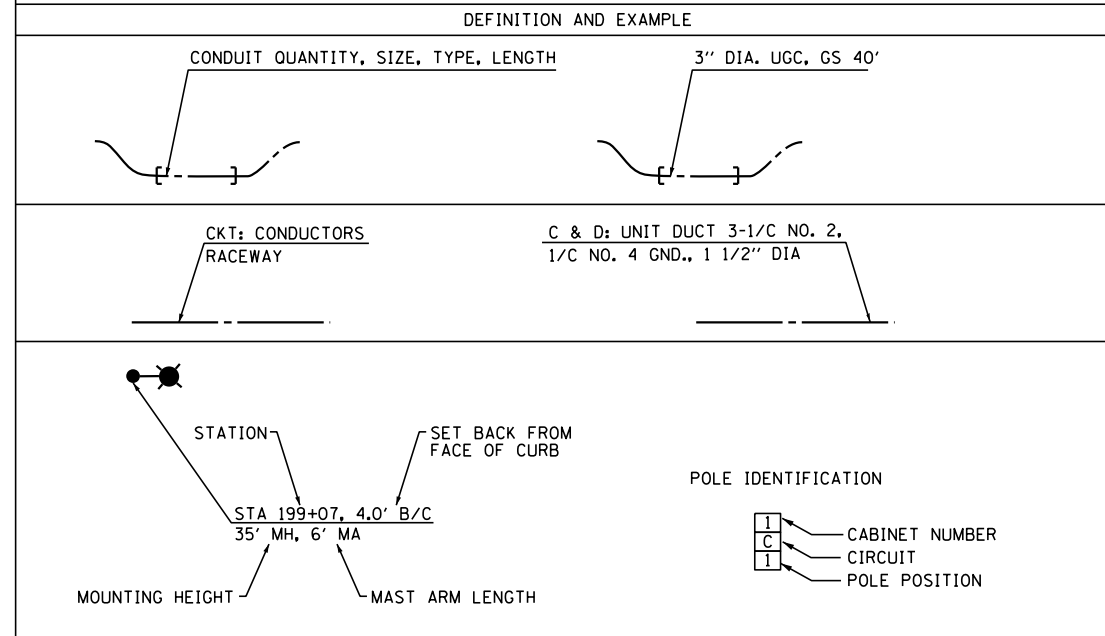
|  |                         |      |         |
|--|-------------------------|------|---------|
| <b>DISTRICT ONE<br/>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b> |                         |      |         |
| SCALE: NONE  | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA. |

|   |           |        |                           |           |
|---|-----------|--------|---------------------------|-----------|
| F.A.U. RTE.                                     | SECTION   | COUNTY | TOTAL SHEETS              | SHEET NO. |
| 1583  | 0303-RS&N | COOK   | 87                        | 49        |
| <b>TS-05</b>                                    |           |        | <b>CONTRACT NO. 60V52</b> |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |                           |           |

### LIGHTING AND ELECTRICAL LEGEND

| SYMBOL      | DESCRIPTION   |
|-------------|---|
|             | EXISTING CITY OF CHICAGO LIGHTING UNIT (SEE STANDARD 826 LEGEND FOR MORE INFORMATION)   |
|             | EXISTING CITY OF CHICAGO LIGHTING UNIT (SEE STANDARD 826 LEGEND FOR MORE INFORMATION)   |
|             | EXISTING CITY OF CHICAGO LIGHTING UNIT (SEE STANDARD 826 LEGEND FOR MORE INFORMATION)   |
|             | EXISTING VILLAGE OF ALSIP LIGHTING UNIT-315W CMH & 35W LED  |
|             | EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED   |
|             | EXISTING CITY OF CHICAGO STREET LIGHTING CONTROLLER PEDESTAL MOUNTED  |
| ---2W---    | PROPOSED AERIAL CABLE (SEE STANDARD 826 LEGEND FOR MORE INFORMATION)  |
| —2W—        | EXISTING AERIAL CABLE (SEE STANDARD 826 LEGEND FOR MORE INFORMATION)  |
| —3NC—       | EXISTING CABLE IN CONDUIT (SEE STANDARD 826 LEGEND FOR MORE INFORMATION)  |
| —FA—        | EXISTING AERIAL FIRE ALARM CABLE (SEE STANDARD 826 LEGEND FOR MORE INFORMATION)   |
| —E—         | EXISTING UNDERGROUND UNIT DUCT, TO REMAIN   |
|             | PROPOSED LIGHTING UNIT MOUNTED ON BREAKAWAY COUPLING, METAL FOUNDATION, 315 WATT CERAMIC METAL HALLIDE, MOUNTING HEIGHT AND ARM LENGTH AS NOTED, VILLAGE OF ALSIP                               |
|             | PROPOSED BLACK POLE, CITY STEEL, ANCHOR BASE, 34' 6", 7 GA. 10" DIA. AND 15" B.C., 24"X7' FND. WITH 1 1/4" ANCHOR RODS, MOUNTING HEIGHT AND ARM LENGTH AS NOTED, CITY OF CHICAGO (INSTALL ONLY) |
| — — — — —   | PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED  |
| - - - - -   | PROPOSED PVC, SIZE AND TYPE AS NOTED  |
| [ - - - - ] | PROPOSED CABLE OR UNIT DUCT IN UNDERGROUND CONDUIT, SIZE AND TYPE AS NOTED  |

### CALL-OUT SAMPLE



### ABBREVIATIONS

| ABBREVIATION | DESCRIPTION   |
|--------------|---|
| AC           | ALTERNATING CURRENT                                 |
| A/C          | AERIAL CABLE  |
| F.O.C.       | FACE OF CURB  |
| CB           | CIRCUIT BREAKER                                     |
| CKT          | CIRCUIT   |
| CM           | CENTIMETER  |
| CP           | CONTROL PANEL                                       |
| CT           | CURRENT TRANSFORMER                                 |
| DA           | DAVIT ARM   |
| DC           | DIRECT CURRENT                                      |
| DIA          | DIAMETER  |
| DP           | DISTRIBUTION PANEL                                  |
| E            | EXISTING UNIT TO REMAIN                             |
| ECA          | ELECTRIC CABLE ASSEMBLY                             |
| E.O.P.       | EDGE OF PAVEMENT                                    |
| FO           | FESTOON OUTLET                                      |
| FT           | FEET OR FOOT  |
| FU           | FUSE  |
| GND          | GROUND  |
| HID          | HIGH INTENSITY DISCHARGE                            |
| JB           | JUNCTION BOX  |
| KVA          | KILOVOLT-AMPERE                                     |
| KW           | KILOWATTS   |
| M            | METER   |
| MA           | MAST ARM  |
| MC           | MULTI-CONDUCTOR                                     |
| MM           | MILLIMETER  |
| M.H.         | MOUNTING HEIGHT                                     |
| MW           | MESSANGER WIRE                                      |
| NO. #        | NUMBER  |
| N.T.S.       | NOT TO SCALE  |
| P            | PROPOSED  |
| PB           | PUSH BUTTON   |
| PNL          | PANEL   |
| PVC          | POLYVINYL CHLORIDE                                  |
| PVCC RGC     | PVC COATED RIGID GALVANIZED CONDUIT                 |
| PT           | POTENTIAL TRANSFORMER                               |
| R            | EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.) |
| RR           | EXISTING UNIT TO BE REMOVED AND REINSTALLED         |
| RECP         | RECEPTACLE  |
| RGC          | RIGID GALVANIZED CONDUIT                            |
| SEL SW       | SELECTOR SWITCH                                     |
| SPARE        | SPARE   |
| SPACE        | SPACE   |
| SS           | STAINLESS STEEL                                     |
| STA          | STATION   |
| T/F          | TOP OF FOUNDATION                                   |
| UD           | UNIT DUCT   |
| U.N.O.       | UNLESS NOTED OTHERWISE                              |
| UGC, GS      | UNDERGROUND CONDUIT, GALVANIZED STEEL               |
| WP           | WOOD POLE   |
| XFMR         | TRANSFORMER   |
| HPS          | HIGH PRESSURE SODIUM                                |
| LPS          | LOW PRESSURE SODIUM                                 |
| LTFM         | LIQUID TIGHT FLEXIBLE METALLIC                      |

### SCHEDULE OF QUANTITIES

| ITEM  | UNIT   | TOTAL QUANTITY | CITY OF CHICAGO | VILLAGE OF ALSIP |
|---|--------|----------------|-----------------|------------------|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.                                    | FOOT   | 45             | -               | 45               |
| UNIT DUCT, 600V, 5-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE | FOOT   | 280            | -               | 280              |
| LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6'                                | EACH   | 3              | -               | 3                |
| DRILL EXISTING HANDHOLE   | EACH   | 12             | 12              | -                |
| REMOVE EXISTING CONCRETE FOUNDATION   | EACH   | 5              | 5               | -                |
| CABLE IN CONDUIT, TRIPLEX, 2-1/C NO. 6 AND 1-1/C NO. 8 GROUND                         | FOOT   | 629            | 629             | -                |
| JUNCTION BOX, POLE OR POST MOUNTED  | EACH   | 2              | 2               | -                |
| ROADWAY LIGHT POLE, INSTALL ONLY  | EACH   | 6              | 6               | -                |
| LIGHT POLE, SPECIAL   | EACH   | 3              | -               | 3                |
| BREAKAWAY DEVICE, COUPLING  | EACH   | 12             | -               | 12               |
| MAINTENANCE OF LIGHTING SYSTEM  | CAL MO | 6              | 3               | 3                |
| CLEAN EXISTING ELECTRICAL MANHOLE OR HANDHOLE   | EACH   | 3              | 3               | -                |
| PVC CONDUIT IN TRENCH, 2" SCHEDULE 40   | FOOT   | 135            | 135             | -                |
| PVC CONDUIT IN TRENCH, 2" SCHEDULE 80   | FOOT   | 165            | 165             | -                |
| COILABLE CONDUIT, HDPE #80, DIRECTIONAL BORING, 2"                                    | FOOT   | 690            | 690             | -                |
| TRENCH AND BACKFILL WITH SCREENINGS   | FOOT   | 220            | 220             | -                |
| CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 7 FEET        | EACH   | 6              | 6               | -                |
| ELBOW, CONDUIT, STEEL, 2", ADJACENT TO EMBEDDED POLE                                  | EACH   | 1              | 1               | -                |
| CONDUIT RISER UP POLE, 2"   | EACH   | 1              | 1               | -                |
| REMOVE EXISTING STREET LIGHTING EQUIPMENT   | LSUM   | 1              | 1               | -                |
| RACK, SECONDARY AERIAL, 2 WIRE  | EACH   | 3              | 3               | -                |
| WIRE, AERIAL, 1/C NO. 6   | FOOT   | 450            | 450             | -                |
| ADDITIONAL ELBOW 2" IN CONCRETE FOUNDATION  | EACH   | 1              | 1               | -                |



|                                   |                   |           |
|-----------------------------------|-------------------|-----------|
| USER NAME = mgarvido              | DESIGNED - MG     | REVISED - |
| FILE NAME = D:\60V52-shr-light-01 | DRAWN - CN        | REVISED - |
| PLOT SCALE = 60.000000:1.000000   | CHECKED - KGP     | REVISED - |
| PLOT DATE = 06-JUL-2015 10:45     | DATE - 07/06/2015 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION


LEGEND, ABBREVIATIONS, INDEX OF DRAWINGS, AND  
SCHEDULE OF QUANTITIES

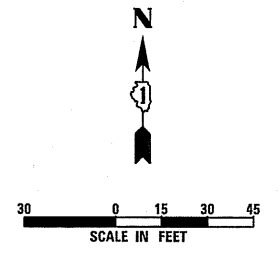
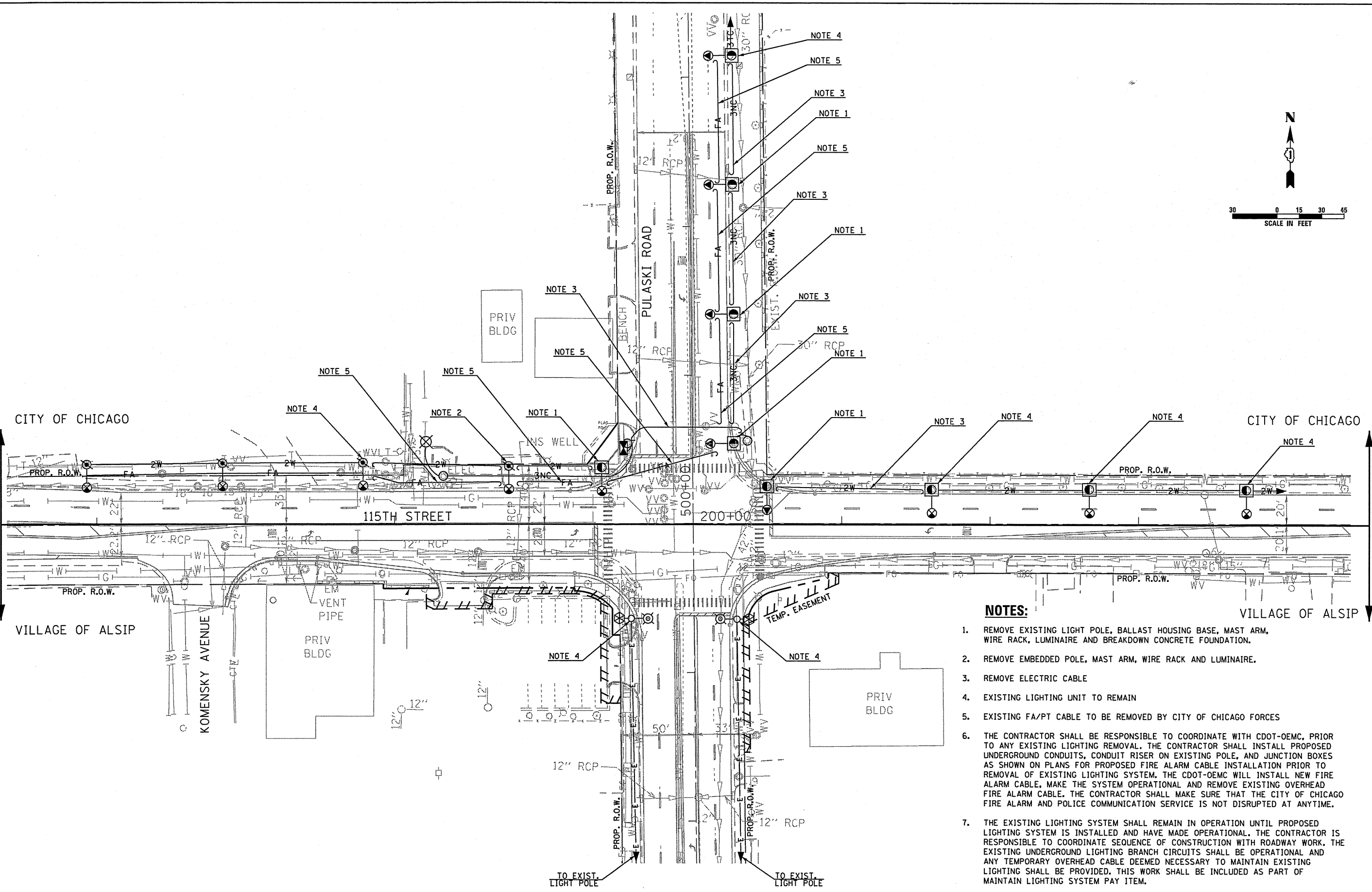
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|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.U. RT.E.              | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1583                      | 0303-RS&N | COOK   | 87           | 50        |
| CONTRACT NO. 60V52        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

**ELECTRICAL GENERAL NOTES**

1. ALL WORK FOR THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), CITY OF CHICAGO DIVISION OF ELECTRICAL OPERATIONS STANDARDS (DEO), CHICAGO ELECTRICAL CODE, IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 2012, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, AND NEMA.
2. THE CONTRACTOR SHALL PREPARE A PRELIMINARY SCHEDULE WHEN THE CONTRACT COMMENCES WHICH ESTABLISHES THE PROJECT DATES WHEN THE EXISTING AND TEMPORARY ELECTRICAL SERVICES WILL BE TRANSFERRED TO THE NEW PERMANENT SERVICES AS SHOWN ON THE DRAWINGS. THIS SCHEDULE SHALL BE APPROVED BY THE CONTRACTOR AND RESIDENT ENGINEER, THEN FORWARDED IN WRITING TO THE CITY OF CHICAGO, DIVISION OF ELECTRICAL OPERATIONS (DEO), AND COMED. SUBSEQUENT UPDATING OF THE SCHEDULE MUST BE FORWARDED TO THE ABOVE LISTED ENTITIES AS CHANGES OCCUR IN THE DATES, AT LEAST FIVE (5) WORKING DAYS BEFORE THE ELECTRICAL SERVICES ARE SCHEDULED TO BE TRANSFERRED. THE CONTRACTOR SHALL NOTIFY THE CITY OF CHICAGO DEO AND COMED BY PHONE AND CONFIRM THE REQUEST IN WRITING. ALL ELECTRICAL SERVICE WORK DOCUMENTATION MUST BE FORWARDED TO THE CITY FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL CONTACT THE FOLLOWING PERSONNEL PRIOR TO STARTING ANY WORK ON THE PRIMARY ELECTRICAL SERVICE EQUIPMENT:  
  
 INSPECTIONAL SERVICES, CITY OF CHICAGO DIVISION OF ELECTRICAL OPERATIONS  
 312-746-5048,  
 MR. STEVE TRIBUZZI, COMED MODIFICATIONS  
 773-682-1521  
 MR. STEVE BYSTRIANSKY, JC DECAUX  
 773-410-6200  
 MR. JEFF CAIRNS, CHICAGO OFFICE OF EMERGENCY MANAGEMENT COMMUNICATIONS  
 312-746-9840
3. THE CONTRACTOR SHALL HANDLE COORDINATION OF ALL PROPOSED ELECTRICAL CONNECTIONS, LIGHTING UNITS, CONTROL EQUIPMENT, AND/OR ANY OTHER WORK DEEMED NECESSARY BY THE COMMISSIONER TO ASSURE THAT ANY FUTURE OR CONCURRENT CONTRACT WORK PROCEEDS AS SCHEDULED AND WITHOUT DELAY. THIS COORDINATION WILL BE INCLUDED IN THE COST OF THE CONTRACT.
4. THE CONTRACTOR SHALL COORDINATE ALL WORK AND MATERIALS WITH SPECIAL ATTENTION TO ALL OTHER CONSTRUCTION CONTRACTS. THIS WORK WILL BE INCLUDED IN THE COST OF THE CONTRACT AND SEPARATE PAYMENT WILL NOT BE MADE.
5. THE CONTRACTOR SHALL REFER TO THE CIVIL DRAWINGS FOR LOCATIONS OF EXISTING EQUIPMENT AND UTILITIES NOT SPECIFICALLY SHOWN ON ELECTRICAL DRAWINGS.
6. THE CONTRACTOR SHALL REFER TO THE TRAFFIC CONTROL DRAWINGS AND STATE STANDARDS FOR TRAFFIC CONTROL RELATED TO STREET LIGHTING AND TRAFFIC SIGNAL WORK.
7. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE GENERAL CIVIL, SEWER AND GENERAL TRAFFIC CONTROL NOTES ON DRAWINGS AND/OR SPECIFICATIONS.
8. THE CONTRACTOR SHALL COORDINATE WITH ROADWAY, BRIDGE, SEWER, PIPING, AND TRAFFIC CONTROL CONTRACTORS FOR STAGING AND SEQUENCE OF INSTALLATIONS, BACKFILL, AND/OR CONSTRUCTION SCHEDULING.
9. ALL CITY OF CHICAGO LIGHTING EQUIPMENT REMOVED AS PART OF THIS CONTRACT WILL REMAIN THE PROPERTY OF THE CITY AND SHALL BE DELIVERED TO CITY'S STORAGE FACILITY LOCATED WITHIN THE CITY LIMITS IN ACCORDANCE WITH THE CONTRACT SPECIFICATION, UNLESS NOTED OTHERWISE.
10. RECORD DRAWINGS SHOWING EXISTING STREET LIGHTING INSTALLATIONS AND CABINET LOCATIONS, ARE AVAILABLE FOR THE CONTRACTOR'S INFORMATION AT THE OFFICES OF CITY OF CHICAGO DEPARTMENT OF STREETS AND SANITATION, DIVISION OF ELECTRICAL OPERATIONS.
11. ALL EXISTING AREAS THAT ARE DAMAGED AS A PART OF THIS WORK, INCLUDING BUT NOT LIMITED TO FENCING, CURBS AND GUTTERS, AND SIDEWALKS, WHERE RESTORATION IS NOT COVERED BY THE APPLICABLE CONTRACT PAY ITEMS, SHALL BE RESTORED TO THE SATISFACTION OF THE COMMISSIONER. THIS WORK WILL BE INCLUDED IN THE COST OF THIS CONTRACT AND SEPARATE PAYMENT WILL NOT BE MADE.
12. ALL NEW ELECTRICAL EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE DONE IN SUCH A MANNER AS NOT TO DAMAGE THE EXISTING LANDSCAPE (TREES, BUSHES, ETC.) DURING THE PROGRESSION OF WORK. IF THE CONTRACTOR HAS A CONFLICT WITH THE EXISTING LANDSCAPE HE SHALL STOP THE WORK, IMMEDIATELY NOTIFY THE COMMISSIONER, AND WAIT FOR RESOLUTION.
13. THE EXISTING ROADWAY LIGHTING SYSTEM WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT SHALL REMAIN IN OPERATION FOR THE DURATION OF THIS PROJECT UNTIL SUCH TIME THAT THE NEW LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, ADJUSTED, AND ACCEPTED BY THE COMMISSIONER, THE COST OF THIS WORK WILL BE INCLUDED AS PART OF THE MAINTAIN EXISTING LIGHTING SYSTEM PAY ITEM AND SEPARATE PAYMENT WILL NOT BE MADE.
14. WORK FOR ELECTRICAL SYSTEMS SHALL BE COMPLETED, APPROVED, AND FULLY OPERATIONAL BEFORE A FINAL ACCEPTANCE INSPECTION FOR THE WHOLE PROJECT CAN BE SCHEDULED. LIGHTING CONTROLLERS MAY NOT BE TRANSFERRED IN GROUPS OR INDIVIDUALLY TO THE CITY FOR MAINTENANCE PURPOSES PRIOR TO CONTRACT COMPLETION UNLESS OTHERWISE DIRECTED BY THE COMMISSIONER.
15. AT THE COMMENCEMENT OF CONTRACTOR ACTIVITIES, ELECTRICAL OR OTHERWISE, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER OPERATION AND MAINTENANCE OF ALL EXISTING LIGHTING AND POWER SYSTEMS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE DIRECTED BY THE COMMISSIONER.
16. ALL PROPOSED DUCT BANKS, CONDUITS, JUNCTION BOXES, AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATIONS IN THE FIELD SHALL BE APPROVED BY THE COMMISSIONER.
17. THE EXISTING STREET LIGHTING CONTROLLERS IDENTIFIED ON THE DRAWINGS AS "REMOVE AND SALVAGE", SHALL REMAIN IN SERVICE UNTIL THE NEW STREET LIGHTING CONTROLLERS ARE INSTALLED AND READY TO BE ENERGIZED. ONCE THE EXISTING STREET LIGHTING CONTROLLERS HAVE BEEN DE-ENERGIZED, THE CONTRACTOR WILL HAVE ONE DAY (DAWN TO DUSK) TO ENERGIZE THE NEW STREET LIGHTING CONTROLLERS.
18. DE-ENERGIZING OF EXISTING LIGHTING UNITS WILL BE INCLUDED IN THE COST OF THE REMOVE EXISTING STREET LIGHTING EQUIPMENT PAY ITEM WORK. SEPARATE PAYMENT WILL NOT BE MADE.
19. DISCONNECTION AND REMOVAL OF EXISTING BEAM CLAMPS, HANGERS, BRACKETS, CONDUITS, WIRES IN CONDUIT, AND AERIAL CABLES ATTACHED TO STRUCTURE AND TO EXISTING LIGHTING UNITS WILL BE INCLUDED IN THE COST OF REMOVE EXISTING STREET LIGHTING EQUIPMENT, SEPARATE PAYMENT WILL NOT BE MADE.
20. REMOVAL OF EXISTING ELECTRICAL CABLES FEEDING EACH OF THE EXISTING LIGHTING/SIGNAL UNITS WILL BE INCLUDED IN THE COST OF REMOVE EXISTING STREET LIGHTING EQUIPMENT AND SEPARATE PAYMENT WILL NOT BE MADE.
21. EXISTING EMBEDDED AND UNDERGROUND RACEWAYS BETWEEN EXISTING LIGHTING UNITS OR EXISTING EQUIPMENT SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
22. THE CONTRACTOR SHALL COORDINATE WITH THE COMMISSIONER AND ALL CONCERNED ORGANIZATIONS AS TO POSSIBLE REMOVAL, REPLACEMENT, DISPLACEMENT, AND/OR METHOD OF AVOIDANCE OF EXISTING OBSTRUCTIONS OR PROPOSED CONSTRUCTION ELEMENTS REQUIRED BY NEW INSTALLATIONS.
23. THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL TEMPORARY ELECTRICAL EQUIPMENT CONNECTIONS AS NECESSARY TO MAINTAIN EXISTING LIGHTING CONTINUITY AS THE PROPOSED WORK FOR INSTALLATION AND REMOVAL OF EXISTING LIGHTING EQUIPMENT PROGRESSES. THE COST OF THIS WORK WILL BE INCLUDED IN MAINTAIN EXISTING LIGHTING SYSTEM.
24. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION OR EXISTING FOUNDATION, THE CONTRACTOR MUST NOTIFY THE COMMISSIONER FOR DIRECTION IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE COMMISSIONER. THIS WORK WILL BE INCLUDED IN THE APPROPRIATE EXCAVATION PAY ITEM.
25. THE CONTRACTOR SHALL REFER TO ALL CITY OF CHICAGO STREET LIGHTING ATLAS DRAWINGS, CHICAGO PARK DISTRICT DRAWINGS, COMED DRAWINGS, AND AT&T DRAWINGS FOR POSSIBLE UNDERGROUND WIRES, CABLES, CONDUITS, DUCT RUNS, EQUIPMENT, OR DEVICES.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING THE PROPOSED LOCATION OF ALL CITY LIGHT POLES, LUMINAIRES, CABINETS, JUNCTION BOXES, CONDUIT ROUTES, AND OTHER EQUIPMENT AND ITEMS FOR A CONTRACTOR REQUESTED PRE-CONSTRUCTION INSPECTION BY THE COMMISSIONER, THE CITY OF CHICAGO DIVISION OF ELECTRICAL OPERATIONS. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE APPROVED BY THE CITY OF CHICAGO DIVISION OF ELECTRICAL OPERATIONS PRIOR TO STARTING WORK. ANY WORK INSTALLED WITHOUT LOCATION APPROVAL FROM THE CITY OF CHICAGO DIVISION OF ELECTRICAL OPERATIONS WILL BE SUBJECT TO CORRECTIVE ACTION AT THE CONTRACTOR'S EXPENSE.
27. THE CONTRACTOR SHALL IDENTIFY EACH ELECTRIC CABLE ASSEMBLY FOR STREET LIGHTING. CABLES SHALL BE TAGGED IN ALL HANDHOLES, MANHOLES, CONTROLLER CABINETS, AND LIGHT POLE BASES.
28. CONDUIT STUBOUTS IN EQUIPMENT FOUNDATIONS WILL NOT BE MEASURED FOR PAYMENT, BUT WILL BE CONSIDERED AS PART OF THE APPLICABLE FOUNDATION PAY ITEM. REFER TO SPECIFICATIONS.
29. THE QUANTITIES OF RIGID GALVANIZED STEEL CONDUIT AND PVC, WHERE INDICATED ON THESE PLAN DRAWINGS, ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
30. THE ELECTRIC CABLE PHASE AND NEUTRAL CONDUCTORS SHALL BE RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES, JUNCTION BOX SPLICES, PULL BOX SPLICES, HANDHOLE SPLICES, OR MANHOLE SPLICES. SPLICES OF ELECTRIC CABLE PHASE AND NEUTRAL CONDUCTORS WILL BE PERMITTED ONLY IN THE BASE OF THE PROPOSED LIGHT POLES AND CONTROLLERS UNLESS NOTED OTHERWISE. THIS WORK WILL BE INCLUDED IN THE ELECTRIC CABLE PAY ITEM AND SEPARATE PAYMENT WILL NOT BE MADE.
31. THE CONTRACTOR SHALL DETERMINE WHICH CABLES ARE TO BE ROUTED IN EACH CELL WHERE MULTIPLE EMBEDDED CONDUITS ARE INDICATED. CONDUCTORS DEDICATED TO A CIRCUIT SHALL NOT BE SEPARATED. DETERMINATION OF WHICH FEEDER IS TO BE PULLED THROUGH A SPECIFIC CELL SHOULD BE BASED ON SIMPLICITY OF CABLE PULL, LEAST AMOUNT OF CROSS-OVERS IN MANHOLES OR HANDHOLES, AND FUTURE CABLE REPLACEMENT REQUIRED.
32. WHERE DUCT RUN OR EMBEDDED CONDUIT INSTALLATIONS MUST DEVIATE FROM THAT SHOWN ON DRAWINGS AND DEVIATIONS INCREASE DUCT LENGTH OR ADD BENDS BETWEEN MANHOLES/HANDHOLES OR DEVICES, THE CONTRACTOR SHALL NOTIFY THE COMMISSIONER AND PRODUCE EVIDENCE THAT CABLES CAN BE PULLED THROUGH THE EXISTING OR PROPOSED DUCT WITHOUT EXCEEDING MAXIMUM ALLOWABLE CABLE PULLING TENSION.
33. THE CONTRACTOR SHALL SCHEDULE A FINAL ACCEPTANCE INSPECTION WITH THE COMMISSIONER, THE CITY OF CHICAGO DIVISION OF ELECTRICAL OPERATIONS, UPON COMPLETION OF ALL PROPOSED STREET LIGHTING WORK. UPON FINAL ACCEPTANCE BY THE DEO, AND THE COMMISSIONER, THE CONTRACTOR SHALL TRANSFER ALL STREET LIGHTING, AND POWER DISTRIBUTION INSTALLATIONS TO THE CITY DEO FOR MAINTENANCE PURPOSES.
34. ALL EMPTY CONDUIT FOR FUTURE USE SHALL HAVE A PULL STRING OR CABLE INSTALLED TO ASSIST IN FUTURE CABLING. THE COST OF THE CABLE OR STRING WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONDUIT.

|   |                                  |                   |           |   |                          |  |  |                    |           |        |              |           |
|---|----------------------------------|-------------------|-----------|---|--------------------------|--|--|--------------------|-----------|--------|--------------|-----------|
|  | USER NAME = mgorvido             | DESIGNED - MG     | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | ELECTRICAL GENERAL NOTES |  |  | F.A.L. RTE.        | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|   | FILE NAME = D168V52-shr-light-02 | DRAWN - CN        | REVISED - |   |                          |  |  | 1583               | 0303-RS&N | COOK   | 87           | 51        |
|   | PLOT SCALE = 60,000000:1,000000  | CHECKED - KGP     | REVISED - |   |                          |  |  | CONTRACT NO. 60V52 |           |        |              |           |
|   | PLOT DATE = 19-JUN-2015 15:59    | DATE - 06/19/2015 | REVISED - |   |                          |  |  | SCALE:             | SHEET     | OF     | SHEETS       | STA.      |



- NOTES:**
1. REMOVE EXISTING LIGHT POLE, BALLAST HOUSING BASE, MAST ARM, WIRE RACK, LUMINAIRE AND BREAKDOWN CONCRETE FOUNDATION.
  2. REMOVE EMBEDDED POLE, MAST ARM, WIRE RACK AND LUMINAIRE.
  3. REMOVE ELECTRIC CABLE
  4. EXISTING LIGHTING UNIT TO REMAIN
  5. EXISTING FA/PT CABLE TO BE REMOVED BY CITY OF CHICAGO FORCES
  6. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CDOT-OEMC, PRIOR TO ANY EXISTING LIGHTING REMOVAL. THE CONTRACTOR SHALL INSTALL PROPOSED UNDERGROUND CONDUITS, CONDUIT RISER ON EXISTING POLE, AND JUNCTION BOXES AS SHOWN ON PLANS FOR PROPOSED FIRE ALARM CABLE INSTALLATION PRIOR TO REMOVAL OF EXISTING LIGHTING SYSTEM. THE CDOT-OEMC WILL INSTALL NEW FIRE ALARM CABLE, MAKE THE SYSTEM OPERATIONAL AND REMOVE EXISTING OVERHEAD FIRE ALARM CABLE. THE CONTRACTOR SHALL MAKE SURE THAT THE CITY OF CHICAGO FIRE ALARM AND POLICE COMMUNICATION SERVICE IS NOT DISRUPTED AT ANYTIME.
  7. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND HAVE MADE OPERATIONAL. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE SEQUENCE OF CONSTRUCTION WITH ROADWAY WORK. THE EXISTING UNDERGROUND LIGHTING BRANCH CIRCUITS SHALL BE OPERATIONAL AND ANY TEMPORARY OVERHEAD CABLE DEEMED NECESSARY TO MAINTAIN EXISTING LIGHTING SHALL BE PROVIDED. THIS WORK SHALL BE INCLUDED AS PART OF MAINTAIN LIGHTING SYSTEM PAY ITEM.

E-3



|            |          |           |
|------------|----------|-----------|
| USER NAME  | DESIGNED | REVISIONS |
| FILE NAME  | DRAWN    | REVISIONS |
| PLOT SCALE | CHECKED  | REVISIONS |
| PLOT DATE  | DATE     | REVISIONS |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

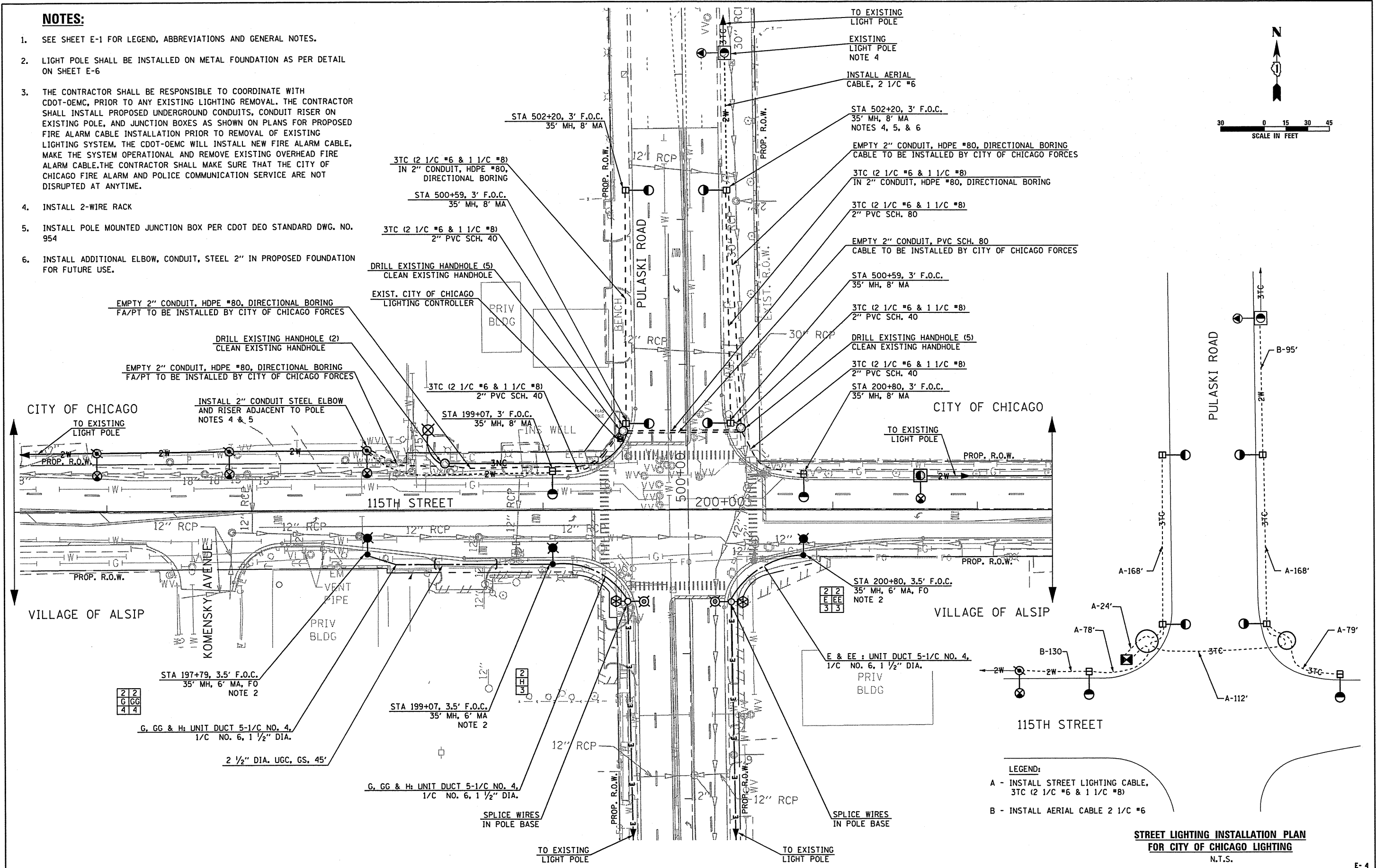
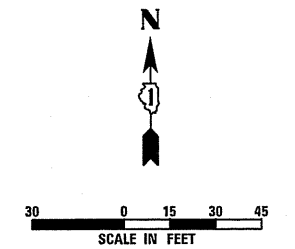
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| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
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|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1583                      | 0303-RS&N | COOK   | 87           | 52        |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

EXISTING LIGHTING REMOVAL  
PULASKI RD AT 115TH ST  
CONTRACT NO. 60V52

**NOTES:**

- SEE SHEET E-1 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- LIGHT POLE SHALL BE INSTALLED ON METAL FOUNDATION AS PER DETAIL ON SHEET E-6
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CDOT-OEMC, PRIOR TO ANY EXISTING LIGHTING REMOVAL. THE CONTRACTOR SHALL INSTALL PROPOSED UNDERGROUND CONDUITS, CONDUIT RISER ON EXISTING POLE, AND JUNCTION BOXES AS SHOWN ON PLANS FOR PROPOSED FIRE ALARM CABLE INSTALLATION PRIOR TO REMOVAL OF EXISTING LIGHTING SYSTEM. THE CDOT-OEMC WILL INSTALL NEW FIRE ALARM CABLE, MAKE THE SYSTEM OPERATIONAL AND REMOVE EXISTING OVERHEAD FIRE ALARM CABLE. THE CONTRACTOR SHALL MAKE SURE THAT THE CITY OF CHICAGO FIRE ALARM AND POLICE COMMUNICATION SERVICE ARE NOT DISRUPTED AT ANYTIME.
- INSTALL 2-WIRE RACK
- INSTALL POLE MOUNTED JUNCTION BOX PER CDOT DEO STANDARD DWG. NO. 954
- INSTALL ADDITIONAL ELBOW, CONDUIT, STEEL 2" IN PROPOSED FOUNDATION FOR FUTURE USE.



- LEGEND:**
- A - INSTALL STREET LIGHTING CABLE, 3TC (2 1/C #6 & 1 1/C #8)
  - B - INSTALL AERIAL CABLE 2 1/C #6

**STREET LIGHTING INSTALLATION PLAN  
FOR CITY OF CHICAGO LIGHTING**

N.T.S.

E-4

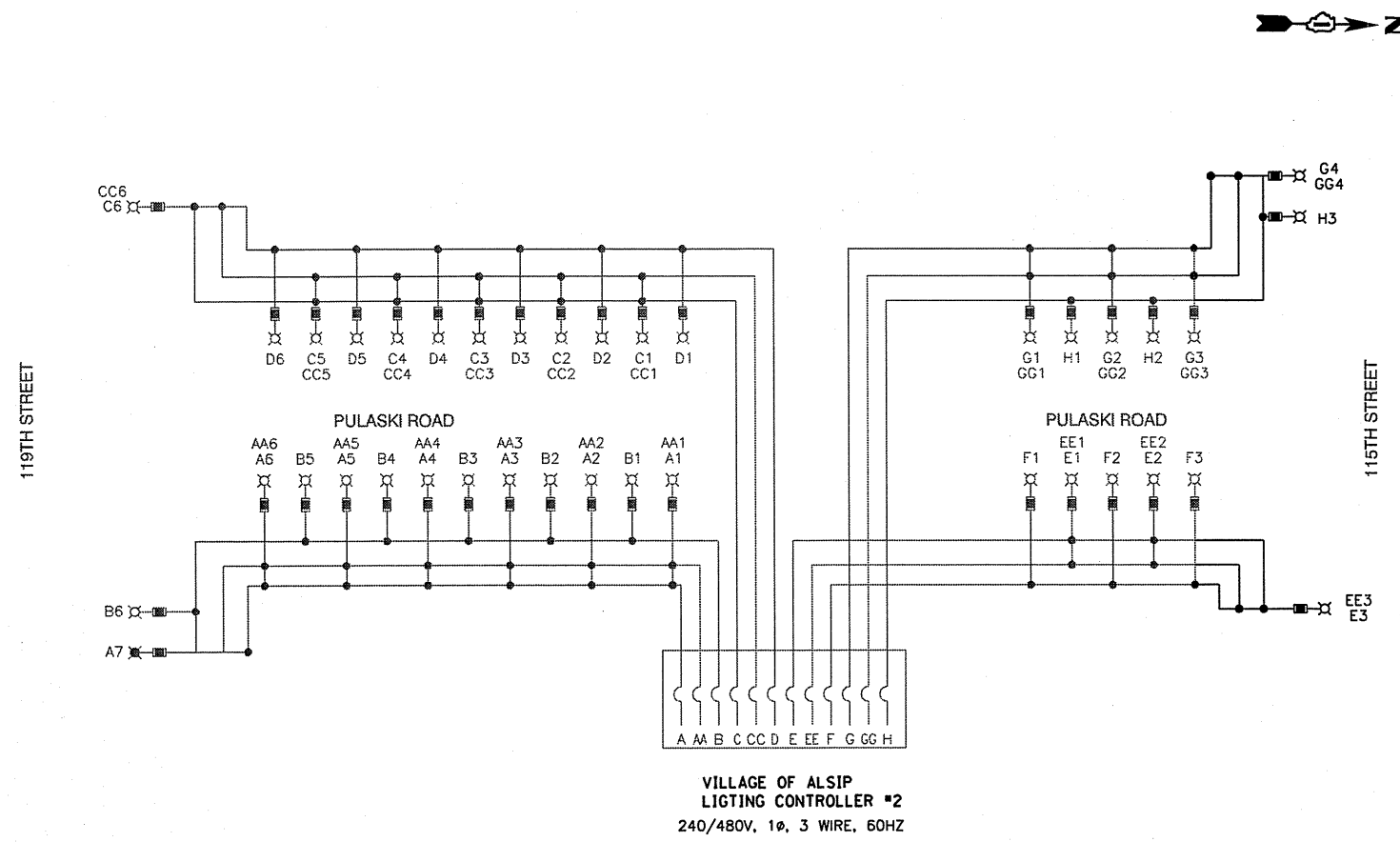


|                                  |                   |           |
|----------------------------------|-------------------|-----------|
| USER NAME = mgovido              | DESIGNED - MG     | REVISED - |
| FILE NAME = D158V52-shr-light-04 | DRAWN - CN        | REVISED - |
| PLOT SCALE = 60.000000:1.000000  | CHECKED - KCP     | REVISED - |
| PLOT DATE = 19-JUN-2015 15:59    | DATE - 06/19/2015 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|  |                              |
|--|------------------------------|
| <b>PROPOSED LIGHTING PLAN<br/>PULASKI RD AT 115TH ST</b> |                              |
| SCALE:   | SHEET OF SHEETS STA. TO STA. |

|                           |                   |             |                 |              |
|---------------------------|-------------------|-------------|-----------------|--------------|
| F.A.U. RTE. 1583          | SECTION 0303-R5&N | COUNTY COOK | TOTAL SHEETS 87 | SHEET NO. 53 |
| ILLINOIS FED. AID PROJECT |                   |             |                 |              |



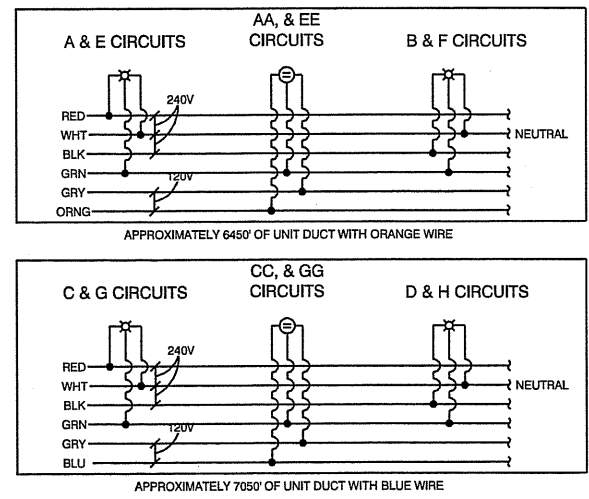
VILLAGE OF ALSIP  
LIGHTING CONTROLLER #2  
240/480V, 1 $\phi$ , 3 WIRE, 60HZ

| INDIVIDUAL LOAD DATA |             |                |             |
|----------------------|-------------|----------------|-------------|
| NOMINAL              | INPUT VOLTS | MAX INPUT AMPS | INPUT WATTS |
| 315W CMH             | 240.00      | 1.50           | 353.00      |
| 35W LED              | 240.00      | 0.30           | 51.00       |
| FESTOON GFI          | 120.00      | 2.50           | 300.00      |
| EXIST. 400W          | 240.00      | 2.00           | 478.00      |

| NOMINAL WATTAGE | FUSE SIZE |
|-----------------|-----------|
| 315 & 35        | 6.0 AMP   |
| 400             | 5.0 AMP   |
| FESTOON OUTLET  | 6.0 AMP   |

LUMINAIRE FUSE SIZE TABLE

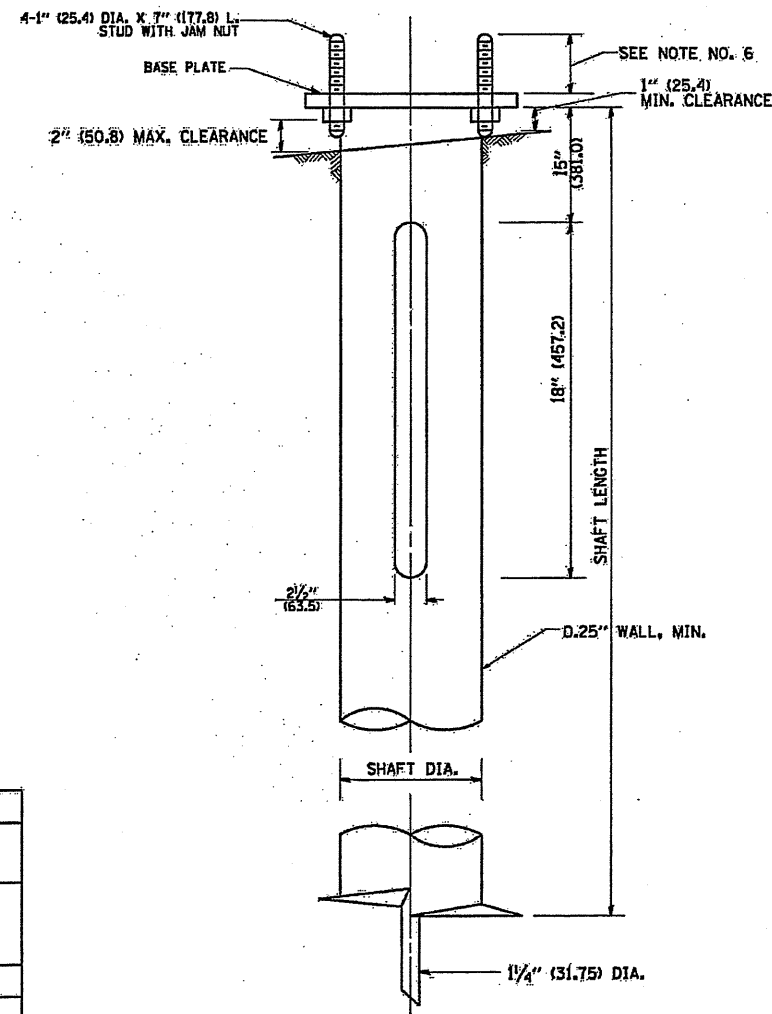
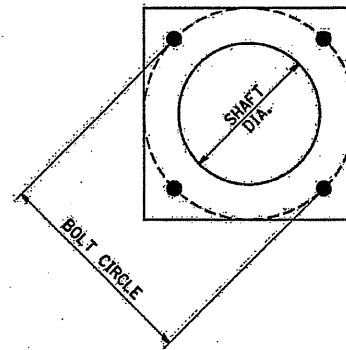
TYPICAL CIRCUIT WIRING



| LOAD TABULATIONS CONTROLLER #2 |         |             |             |
|--------------------------------|---------|-------------|-------------|
| CIRCUIT                        | WATTS   | AMPS @ 240V |             |
|                                |         | RED PHASE   | BLACK PHASE |
| A                              | 2,902   | 12.80       |             |
| B                              | 2,424   |             | 10.80       |
| C                              | 2,424   | 10.80       |             |
| D                              | 2,424   |             | 10.80       |
| E                              | 1,212   | 5.40        |             |
| F                              | 1,212   |             | 5.40        |
| G                              | 1,616   | 7.20        |             |
| H                              | 1,212   |             | 5.40        |
| LUMINAIRE SUBTOTAL             | 15,426  | 36.20       | 32.40       |
| AA                             | 1200.00 | 5.0         |             |
| CC                             | 1500    |             | 6.3         |
| EE                             | 1200    | 5.0         |             |
| GG                             | 1200    |             | 5.0         |
| GFCI SUBTOTAL                  | 5100    | 10.0        | 11.3        |
| CAB TOTAL                      | 19314   | 42.6        | 41.9        |
| TOTAL AMPS @ 240 V             |         |             | 84.45       |

NOTES  
1. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BOUNDED AT EACH LIGHT POLE OR OTHER EQUIPMENT.

- LEGEND
- ⊗ LUMINAIRE, 315W CHM & 35W LED
  - ⊗ LUMINAIRE, 400W HPS, 240V
  - ⊕ GFCI DUPLEX OUTLET
  - FUSE - REFER TO FUSE SIZE TABLE
  - A LUMINAIRE CIRCUIT, 240V
  - AA GFCI CIRCUIT, 120V
  - ⌋ CIRCUIT BREAKER
  - CONNECTION



**NOTES:**

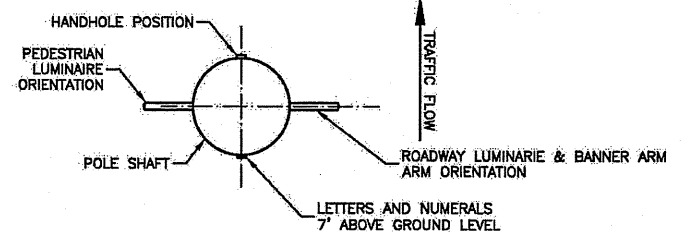
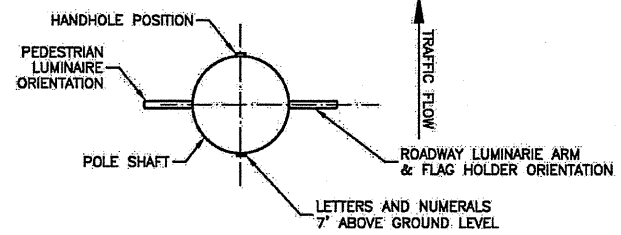
1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING. NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ( $\pm 1^\circ$ ) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC ( $\pm 0.188$ ) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC ( $\pm 0.125$ ) AND IN LINE ( $\pm 2^\circ$ ).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

**HELIX FOUNDATION SIZE**

| POLE MOUNTING HEIGHT | BOLT CIRCLE | SHAFT DIAMETER | SHAFT LENGTH | BASEPLATE      |
|----------------------|-------------|----------------|--------------|----------------|
| 30 FT.               | 1 1/2"      | 8 5/8"         | 6 FT.        | 12"x12"x1"     |
| 31 FT.-35 FT.        | 1 1/2"      | 8 5/8"         | 6 FT.        | 12"x12"x1"     |
| 36 FT.-40 FT.        | 15"         | 8 5/8"         | 6 FT.        | 15"x15"x1 1/4" |
| 41 FT.-45 FT.        | 15"         | 8 5/8"         | 6 FT.        | 15"x15"x1 1/4" |
| 46 FT.-50 FT.        | 15"         | 10"            | 8 FT.        | 15"x15"x1 1/4" |

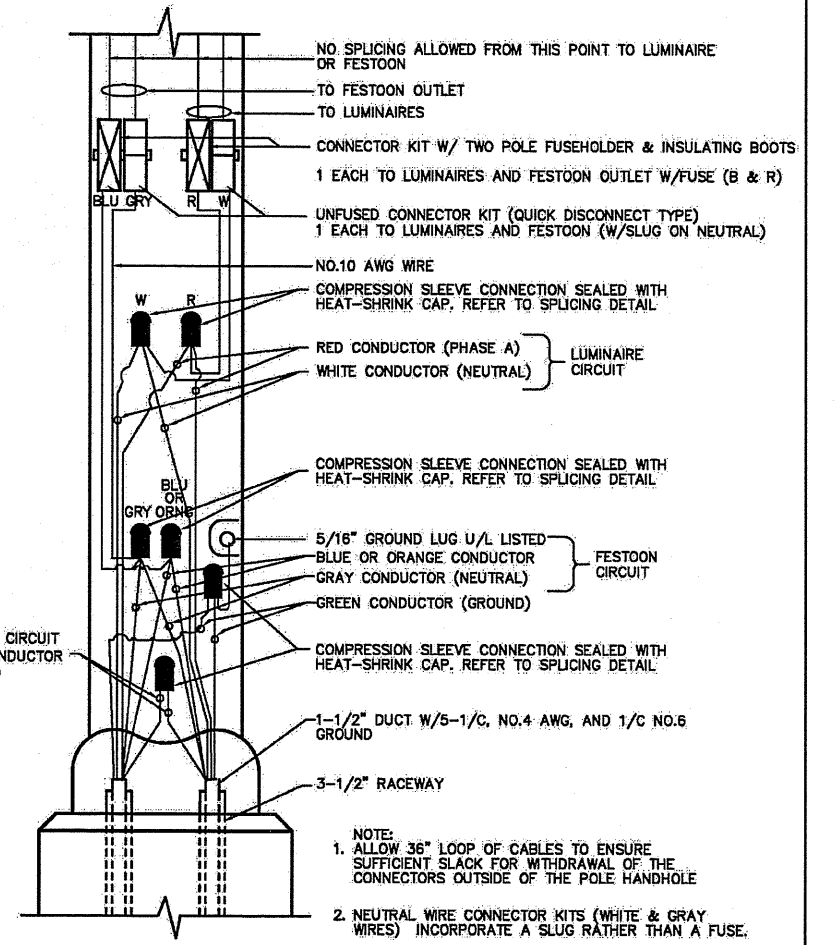
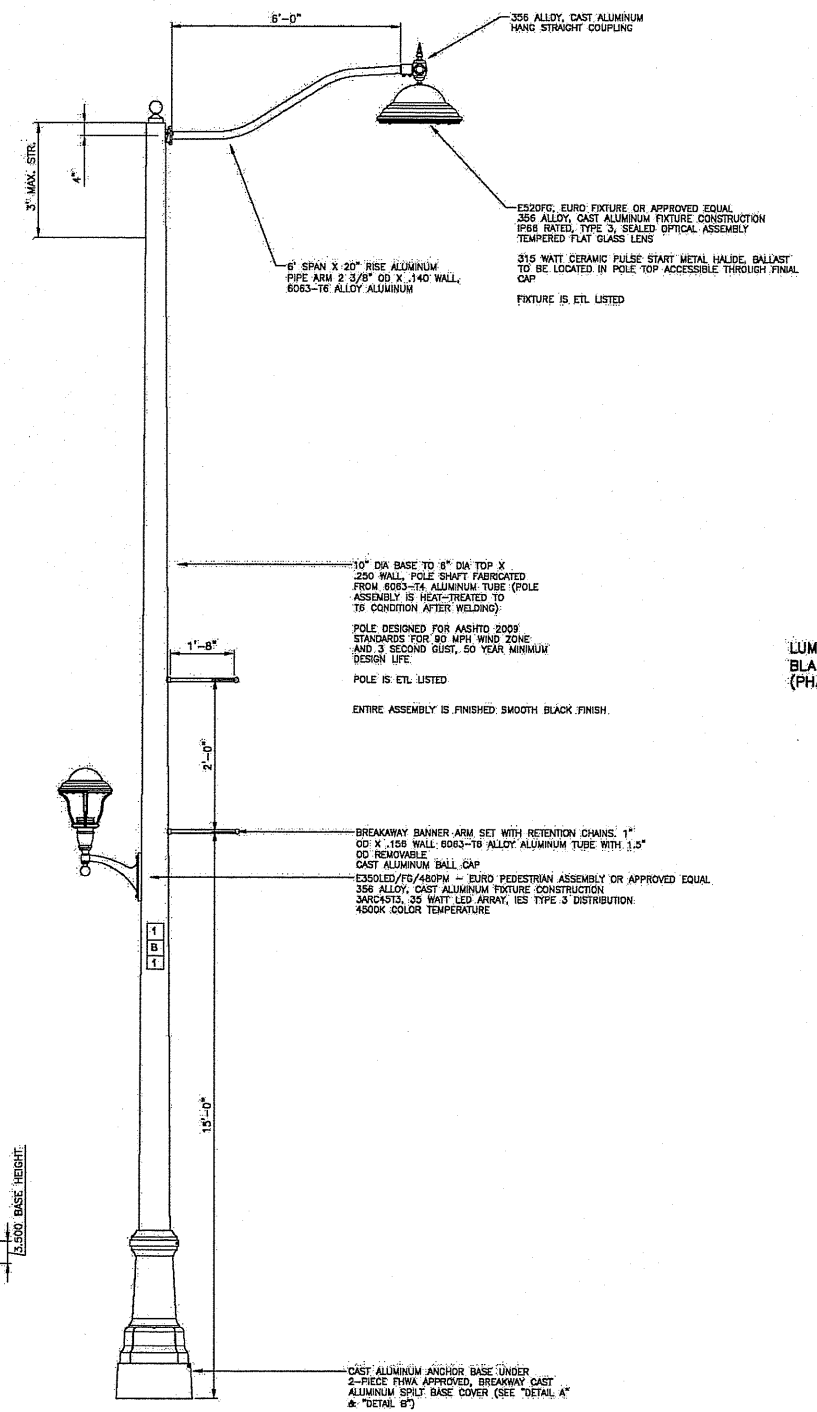
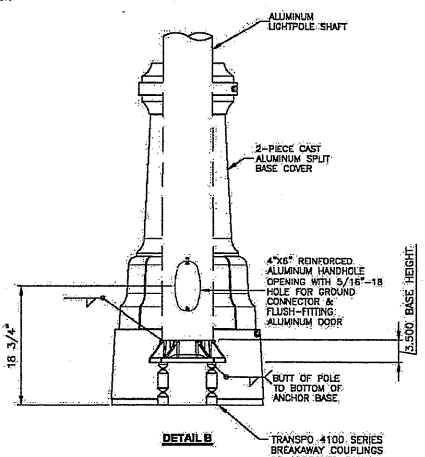
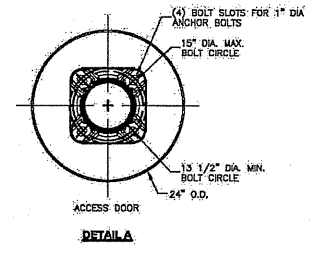
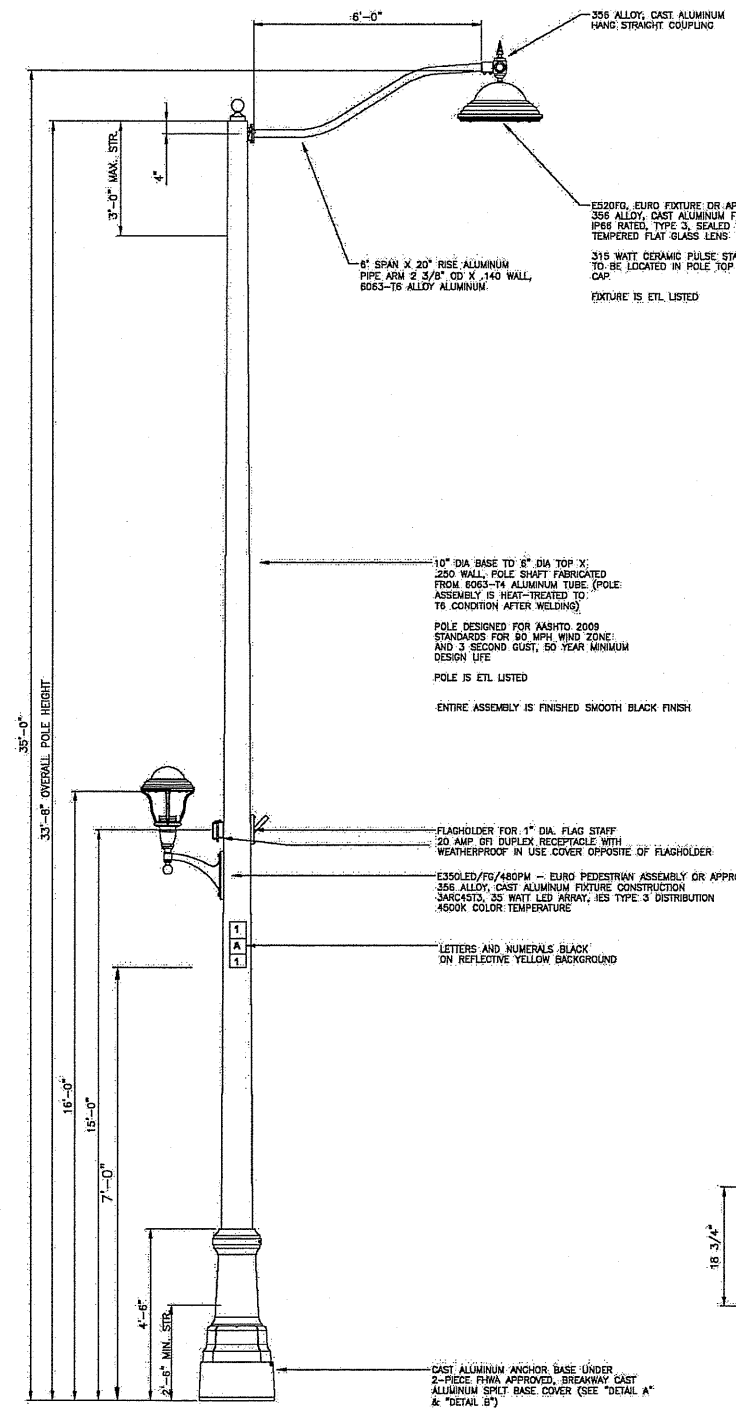
**METAL HELIX FOUNDATION MATERIALS**

| ITEM              | MATERIAL REQUIREMENT   |
|-------------------|--|
| BASEPLATE         | AASHTO M 270M, GRADE 36 (M270M, GRADE 250)                                 |
| SHAFT             | ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)      |
| HELIX SCREW       | AASHTO M 183 (ASTM A 635)  |
| PILOT POINT       | AASHTO M 270 (ASTM A 575)  |
| ANCHOR RODS/STUDS | AASHTO M 314 (ASTM F 1554)   |
| HEXAGON NUTS      | AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H |
| WASHERS           | AASHTO M 293 (ASTM F 436)  |



| NOMINAL WATTAGE | FUSE SIZE |
|-----------------|-----------|
| 315 & 35        | 6.0 AMP   |
| 400             | 5.0 AMP   |
| FESTOON OUTLET  | 6.0 AMP   |

**LUMINAIRE FUSE SIZE TABLE**



**TYPICAL POLE INSTALLATION**

**POLE HANDHOLE WIRING DIAGRAM**  
(TYPICAL FOR LUMINAIRE INSTALLATION)  
(WITH FESTOON)

35' MH, 6' MA, FH, FO

35' MH, 6' MA, BA



|                                  |                   |           |
|----------------------------------|-------------------|-----------|
| USER NAME = mgerardo             | DESIGNED - MG     | REVISED - |
| FILE NAME = DISBY52-shr-light-87 | DRAWN - CN        | REVISED - |
| PLOT SCALE = 68.000000:1.000000  | CHECKED - KGP     | REVISED - |
| PLOT DATE = 19-JUN-2015 16:00    | DATE - 06/19/2015 | REVISED - |

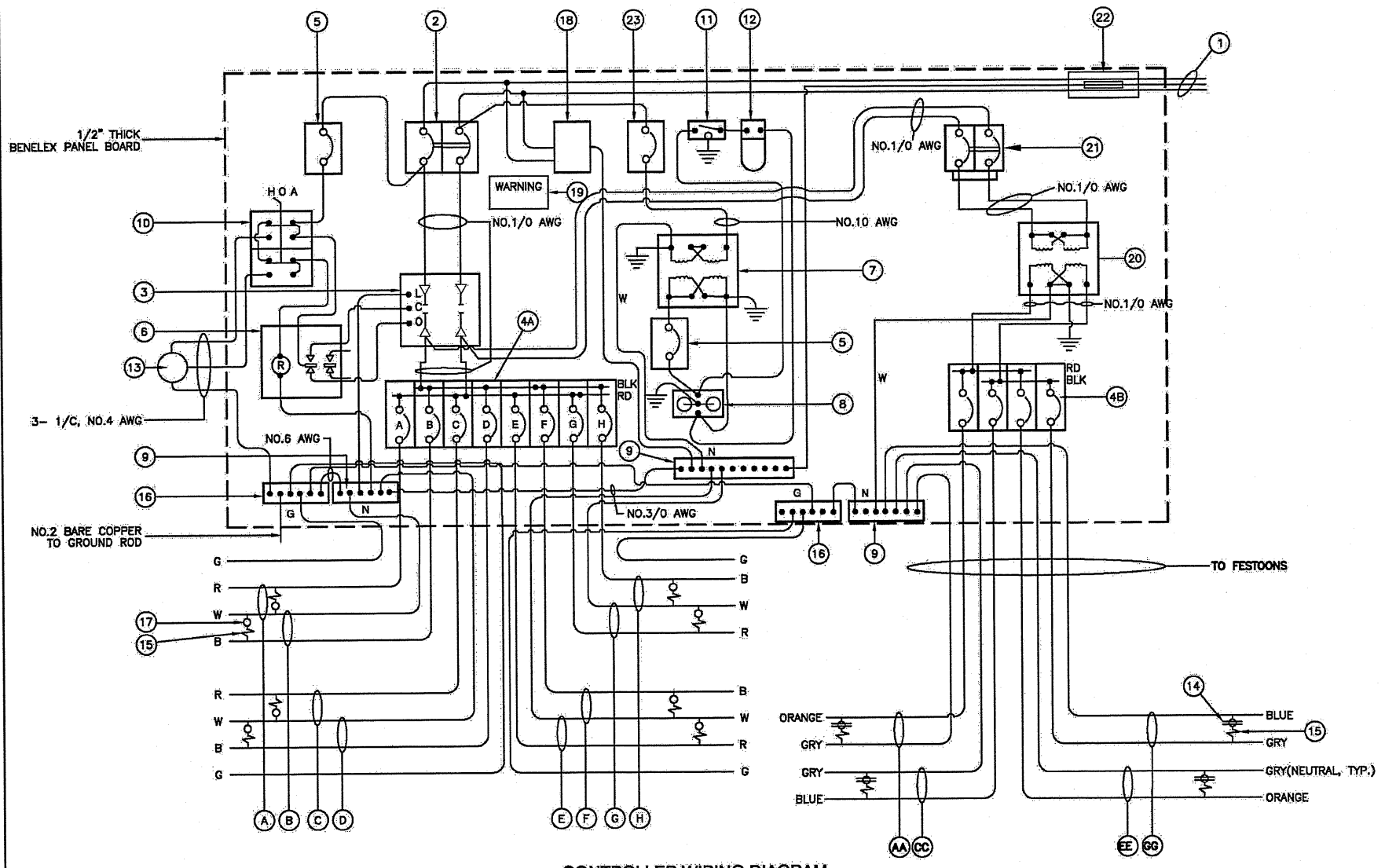
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LIGHTING DETAILS**  
**VILLAGE OF ALSIP**

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

|                           |                   |             |                 |              |
|---------------------------|-------------------|-------------|-----------------|--------------|
| F.A.U. RTE. 1583          | SECTION 0303-RS&N | COUNTY COOK | TOTAL SHEETS 87 | SHEET NO. 56 |
| CONTRACT NO. 60V52        |                   |             |                 |              |
| ILLINOIS FED. AID PROJECT |                   |             |                 |              |





**CONTROLLER WIRING DIAGRAM  
CONTROLLER NO. 1 & NO. 2**

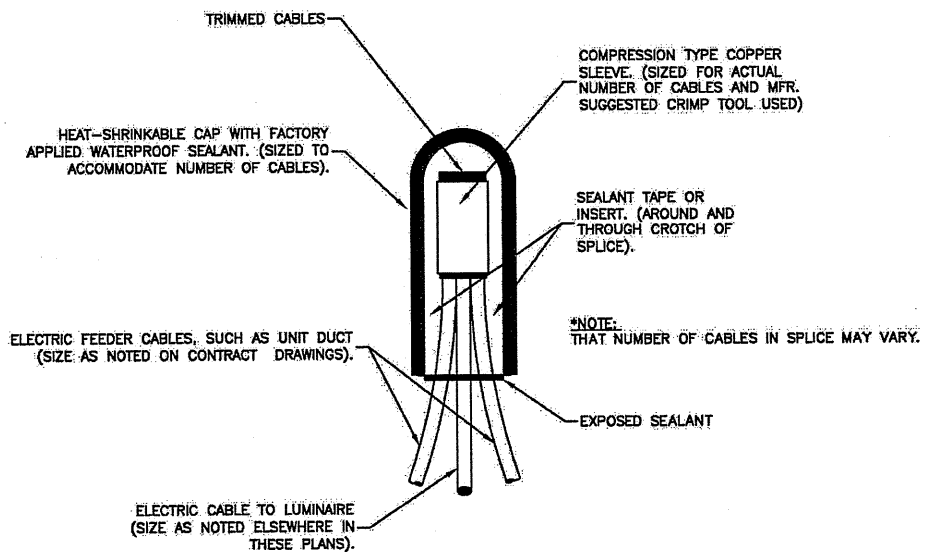
**CONTROLLER WIRING DIAGRAM LEGEND**

- ① 3-1/2" DIA GALVANIZED STEEL CONDUIT FOR 240/480 VOLT, 1Ø, 3 WIRE, 60HZ. SERVICE.
- ② (1) 150 AMP MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT, 250 AMP FRAME, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 22,000 AMP AT 480 V.
- ③ (1) 150 AMP CONTACTOR SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, 600 VOLT, 240V COIL.
- ④A (1) 30 AMP CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP FRAME, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 22000 AMP AT 240 VOLTS. MAIN PANEL TO BE RATED AT 225 AMPS AT 480 VOLTS;
- ④B (1) 30 AMP CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP FRAME, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 22000 AMP AT 240 VOLTS. FESTOON PANEL TO BE RATED AT 150 AMPS AT 240 VOLTS;
- ⑤ (2) 20 AMP CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP FRAME, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA 14000 AMP AT 240 V.
- ⑥ (1) 25 AMP, 1 POLE DOUBLE THROW, 240 VOLT RELAY
- ⑦ (1) 1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480/120 X 240 VOLT, 60HZ.
- ⑧ (1) 20 AMP, 120 VOLT DUPLEX GFCI RECEPTACLE MOUNTED IN BOX.
- ⑨ (3) NEUTRAL BUS BAR, 1/4"x1"x12" MINIMUM LENGTH MOUNTED ON PANEL WITH LUGS.
- ⑩ 3 POSITION SELECTOR SWITCH, 240V, 30 AMP.
- ⑪ SWITCH FOR LIGHTING FIXTURE MOUNTED IN BOX, 20 AMP.
- ⑫ WEATHER-PROOF INCANDESCENT LIGHTING FIXTURE WITH 60 WATT, 120 V LAMP.
- ⑬ PHOTOCELL MOUNTED TO CABINET, 240 V, 1000 VA. BALLAST RATING, 1-4 FC ON, 3-12 FC OFF, 30 SECOND DELAY, MIN.
- ⑭ 20 AMP, 120 VOLT DUPLEX GFCI RECEPTACLE MOUNTED TO POLE.
- ⑮ IN-LINE FUSEHOLDER WITH FUSE AS NOTED IN FUSE TABLE
- ⑯ (2) GROUND BUS BAR 1/4"x1"x12" MINIMUM LENGTH MOUNTED ON PANEL WITH LUGS.
- ⑰ LUMINAIRE
- ⑱ SURGE ARRESTOR, UL LISTED, NEC 280 COMPLIANT, 1Ø, 3 WIRE, 60HZ MAX. 3,405 JOULES @ 240 VOLTS.
- ⑲ WARNING PLATE TO READ: WARNING, MAINTENANCE CIRCUIT IS LIVE WHEN MAIN BREAKER IS SWITCHED OFF.
- ⑳ 7.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240x480/120x240 V, 60HZ, MOUNTED ADJACENT TO CONTROLLER.
- ㉑ 20 AMP CIRCUIT BREAKER, 2 POLE, 600 VOLT, 100 AMP FRAME, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 22000 AMP AT 277 VOLTS. INCLUDE SPLICE BLOCKS OR POWER DISTRIBUTION CONNECTORS AS REQUIRED.
- ㉒ MILBANK 1Ø, 3 WIRE, 150A METER SOCKET
- ㉓ 15 AMP CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP FRAME, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA 14000 AMP AT 240 V.

- Ⓐ CIRCUIT (RED)      Ⓔ CIRCUIT (RED)      ⒶA CIRCUIT (ORANGE)      ⒺE CIRCUIT (ORANGE)
- Ⓑ CIRCUIT (BLACK)      Ⓕ CIRCUIT (BLACK)      ⒸC CIRCUIT (BLUE)      ⒻG CIRCUIT (BLUE)
- Ⓒ CIRCUIT (RED)      Ⓖ CIRCUIT (RED)
- Ⓓ CIRCUIT (BLACK)      Ⓗ CIRCUIT (BLACK)

**GENERAL NOTES FOR CONTROL CABINET**

1. ENTIRE CONTROL CABINET SHALL BE GROUNDED.
2. ALL WIRING SHALL BE TAGGED WITH SELF-STICKING WIRE MARKERS.
3. GROUND BUS TO BE COLOR CODED GREEN, NEUTRAL BUS WHITE, AND BONDED TO CABINET ENCLOSURE, BY LISTED PRESSURE CONNECTORS OR LISTED CLAMPS.
4. ALL INTERNAL CONTROLLER WIRING TO BE NO.12 AWG UNLESS OTHERWISE SPECIFIED.
5. CABINET WIRING INSULATION TO BE TYPE XHHW OR APPROVED EQUAL.
6. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
7. THE CONTROLLER SHALL BE UL LISTED, NEMA 3R, AND BE SUITABLE FOR USE AS SERVICE ENTRANCE RATED.



**SPLICING ELECTRIC CABLES  
BASIC MATERIALS AND METHODS**

|  |                                   |                   |           |   |  |       |    |                  |                   |             |                 |                           |  |
|--|-----------------------------------|-------------------|-----------|---|--|-------|----|------------------|-------------------|-------------|-----------------|---------------------------|--|
|  | USER NAME • mgervido              | DESIGNED - MG     | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>LIGHTING DETAILS<br/>VILLAGE OF ALSIP</b> |       |    | F.A.U. RTE. 1583 | SECTION 0303-R5&N | COUNTY COOK | TOTAL SHEETS 87 | SHEET NO. 57              |  |
|  | FILE NAME • D168V52-shr-light-08  | DRAWN - CN        | REVISED - |   | SCALE:                                       | SHEET | OF | SHEETS           | STA.              | TO          | STA.            | ILLINOIS FED. AID PROJECT |  |
|  | PLOT SCALE • 60,000,000/1,000,000 | CHECKED - KGP     | REVISED - |   |  |       |    |                  |                   |             |                 |                           |  |
|  | PLOT DATE • 19-JUN-2015 16:00     | DATE - 06/19/2015 | REVISED - |   |  |       |    |                  |                   |             |                 |                           |  |

PROPOSED PRESENT

- SIGNAL, TRAFFIC 3 SECTION 1-WAY ADJUSTABLE, 12" OR AS NOTED
- SIGNAL, TRAFFIC 3 SECTION 2-WAY ADJUSTABLE, 12" OR AS NOTED
- SIGNAL OPTICALLY PROGRAMMED
- SIGNAL, PEDESTRIAN, DON'T WALK/WALK
- SIGNAL FACE ARROW, 12" COLOR AS NOTED
- SIGNAL FACE, 1 SECTION YELLOW/GREEN ARROW DUAL INDICATION
- PUSH BUTTON, PEDESTRIAN
- SIGN, ILLUMINATED, WITH MESSAGE OR SYMBOL AS INDICATED
- MAST ARM, MONOTUBE, STEEL, SIZE AS INDICATED (SEE DWG. #870)
- MAST ARM, TRUSS, ALUMINUM, SIZE AS INDICATED
- CONTROLLER, TRAFFIC SIGNAL, PEDESTAL OR BASE MOUNTED AS INDICATED
- CONTROLLER, STREET LIGHTING, PEDESTAL OR BASE MOUNTED. (DWG. 876 or 880)
- CONTROLLER, STREET LIGHTING, POLE MOUNTED (DWG. #11940)
- POLE, WOOD, COMMONWEALTH EDISON COMPANY, SERVICE
- POLE, CITY STEEL, ANCHOR BASE, 34'-6", 7 GA. 10" DI A. AND 15" B.C. 24"X7" FND. W/1 1/4" ANCHOR RODS DRG. #818.
- POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA. 10" DIA. AND 15" B.C. 24"X9" FND. W/1 1/4" ANCHOR RODS DRG. #818 (16", 20" or 26" M.A.)
- POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3GA., 11" DIA. AND 17 1/4" B.C. 30"X9" FND. W/1 1/4" ANCHOR RODS DRG. #816. (30" M.A.)
- POLE, CITY STEEL, ANCHOR BASE 34'-6", 3 GA. 12 1/2" DIA. AND 16 1/2" B.C. 30"X11" FND. W/1 1/2" ANCHOR RODS DRG. #817. (35", 40" or 44" M.A.)
- POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA. 10" DIA., WITH 3 GA. BAL. HSG. BASE AND 17 1/4" B. C. ON 30"X9" FND. W/ 1 1/4" ANCHOR RODS DRG. #816.
- POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 7 GA. WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #716.
- POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 3 GA., WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #719.
- POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 7 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
- POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 3 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
- POLE, CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
- POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
- POLE, CITY STEEL, ANCHOR BASE, 32'-6" 7 GA., ALUM. BHB AND FND. WITH 15" B.C. 24"X7" WITH 1" ANCHOR RODS DRG. #691.
- POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., ALUM. BHB AND FND. WITH 15" B.C. 24"X7" WITH 1" ANCHOR RODS DRG. #691.
- POLE, CITY ALUMINUM, WITH ROUND BAL. HSG. BASE, 25', 28', or 30' ON FND. WITH 14" B.C., ACQUIRED FROM CHICAGO PARK DISTRICT.
- POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 7 GA., TAPERED TUBULAR. (DWG. #658)
- POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 3 GA., TAPERED TUBULAR. (DWG. #658)
- POLE, CITY STEEL, EMBEDDED. (ACQUIRED FROM CTA)
- COLUMN, ELEVATED STRUCTURE
- POLE, WOOD. (SIZE AS NOTED)
- POLE, FOUNDATION WITH ELBOWS AS INDICATED. (SIZE AS NOTED)
- POLE, ORNAMENTAL OR OTHER, AS INDICATED ON THE PLANS

PROPOSED PRESENT

- HANDHOLE, HEAVY DUTY, 36" I.D. (DWG.#866)
- HANDHOLE, CIRCULAR WITH 24" FRAME & COVER, 30" I.D. (#867)
- MANHOLE, CITY 3'X4'X4' DWG. #729 or 730; 4'X6'X6' DWG. #732 or 733.
- FOUNDATION, CONTROLLER OR PEDESTAL, 13" B.C., 20"X5' (DWG. #709)
- FOUNDATION, TRAFFIC CONTROLLER DWG. #854. F.A. TERMINAL FND. DWG. #11972
- FOUNDATION, TRAFFIC TYPE "P", BASE MOUNT. (DWG. #888)
- FOUNDATION, CONTROLLER STREET LIGHT, SPECIAL, 100A & 200A. (DWG.#876 & # 880)
- FOUNDATION, TRANSCLOSURE; TRANSCLOSURE HOUSING. (DWG.# 583 & #891)
- CONTROLLER, UNDERPASS LIGHTING 120V. & 240V. (DWG. #860 & #861)
- MANHOLE, UTILITY, E=COMMONWEALTH EDISON; T=ILL. BELL TEL.; G=PEOPLES GAS; W=CITY WATER; P=CHGO. PARK DISTRICT; CTA=C.T.A.; S= SEWER
- JUNCTION BOX, IN PAVEMENT (DWG. #815)
- DETECTOR LOOP IN PAVEMENT
- CONDUIT or P.V.C., NUMBER, SIZE & TYPE. (AS NOTED)
- CONDUIT or P.V.C. ENCASED IN CONCRETE. (SECTION or NUMBER OF CONDUIT INDICATED)
- LUMINAIRE, H.P.S.V. 400W LAMP, 240V, SEMI-CUTOFF
- LUMINAIRE, H.P.S.V. 400W LAMP, 240V, CUTOFF
- LUMINAIRE, H.P.S.V. 310W LAMP, 240V
- LUMINAIRE, H.P.S.V. 310W LAMP 240V, CUTOFF
- LUMINAIRE, H.P.S.V. 150W LAMP, 240V
- LUMINAIRE, H.P.S.V. 150W LAMP, 120V
- LUMINAIRE, H.P.S.V. 250W LAMP, 120V, (ALLEY LIGHT)
- LUMINAIRE, H.P.S.V. 250W LAMP, 120V
- TERMINAL, CABINET F.A. & P.C.
- FIRE ALARM BOX, MOUNTED
- FIRE ALARM BOX, POLE MOUNTED
- CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
- CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C- #4, 600 V. EPR. IN CONDUIT
- CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2 1/C-#2 or #1/0 600V. EPR IN CONDUIT
- CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#10 or #6, 600V NSRI, IN CONDUIT
- CABLE, TRAFFIC SIGNAL, 7/C-#12 or #14, 600V, EPR IN CONDUIT
- CABLE, TRAFFIC SIGNAL, 10/C-#12 or #14, 600V, EPR IN CONDUIT
- CABLE, TRAFFIC SIGNAL, 14/C-#12, 600V. EPR IN CONDUIT
- CABLE, TRAFFIC SIGNAL, 19/C-#12 or #14, 600V. EPR IN CONDUIT
- CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN PARKWAY
- CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN CONDUIT
- CABLE, STREET LIGHT, 2 1/C-#6 EPRN 600V. & 1 1/C-#8 GREEN, TRIPLEXED, IN CONDUIT
- CABLE, STREET LIGHT, 3 1/C-#1/0, or #2/0, or #4, 600V. EPR IN CONDUIT
- WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
- WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C-#8, HDNS. AERIAL
- CABLE, STREET LIGHT AERIAL, 3 1/C-#4 or #2 SELF SUPPORTING, 600V EPR
- WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY
- CABLE, F.A. & P.C. AERIAL. W/ MESSENGER #19-(NUMBER OF PAIRS AS INDICATED)
- CABLE, F.A. & P.C. AERIAL, SELF SUPPORTING, #19-(NUMBER OF PAIRS AS INDICATED)
- CABLE, F.A. & P.C., IN CONDUIT, #19-(NUMBER OF PAIRS AS INDICATED)
- DOWNLIGHT ASSEMBLY. (DWG. #850)
- LIGHT, TRAFFIC SAFETY ISLAND
- FLASHING BEACON & DOWNLIGHT

ORNAMENTAL LUMINAIRES

| PROPOSED | EXISTING |                     |
|----------|----------|---------------------|
|          |          | 310W PENDANT (240V) |
|          |          | 400W PENDANT (240V) |
|          |          | 250W PENDANT (240V) |
|          |          | 150W ACORN (120V)   |
|          |          | 150W ACORN (240V)   |
|          |          | 50W ACORN (240V)    |
|          |          | 100W ACORN (240V)   |
|          |          | 150W GLOBE (240V)   |
|          |          | 100W GLOBE (240V)   |
|          |          | 50W GLOBE (240V)    |

|            |                          |               |
|------------|--------------------------|---------------|
| C 04-01-02 | REVISED/REDRAW           | R. POOL/B. I. |
| B 12-4-01  | ADDED ORNAMENTAL SYMBOLS |               |
| A 8-6-96   | REDRAWN                  |               |

| DATE | REVISION |
|------|----------|
|------|----------|

STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING

CITY OF CHICAGO  
DEPT. OF STREETS AND SANITATION  
BUREAU OF ELECTRICITY  
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: R. IVY  
SUPERVISING ENGINEER: R. CARTER  
ENGINEER: R. POOL/R.C.W.T.

CHIEF DRAFTSMAN: R. CARTER  
ELEC. DESIGN ENGR.

ENGINEER OF ELECTRICITY: [Signature]

GEN'L. SUPT. OF CONSTRUCTION: [Signature]

DEPUTY COMMISSIONER: [Signature]

SIZE: 22" X 36" SCALE: [ ] DATE: [ ]

DWG. NO. 826



|                                 |                  |          |
|---------------------------------|------------------|----------|
| USER NAME: mgervide             | DESIGNED: MG     | REVISED: |
| FILE NAME: D168V52-shr-light-09 | DRAWN: CN        | REVISED: |
| PLOT SCALE: 60.000000/1.000000  | CHECKED: KGP     | REVISED: |
| PLOT DATE: 19-JUN-2015 16:01    | DATE: 06/19/2015 | REVISED: |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

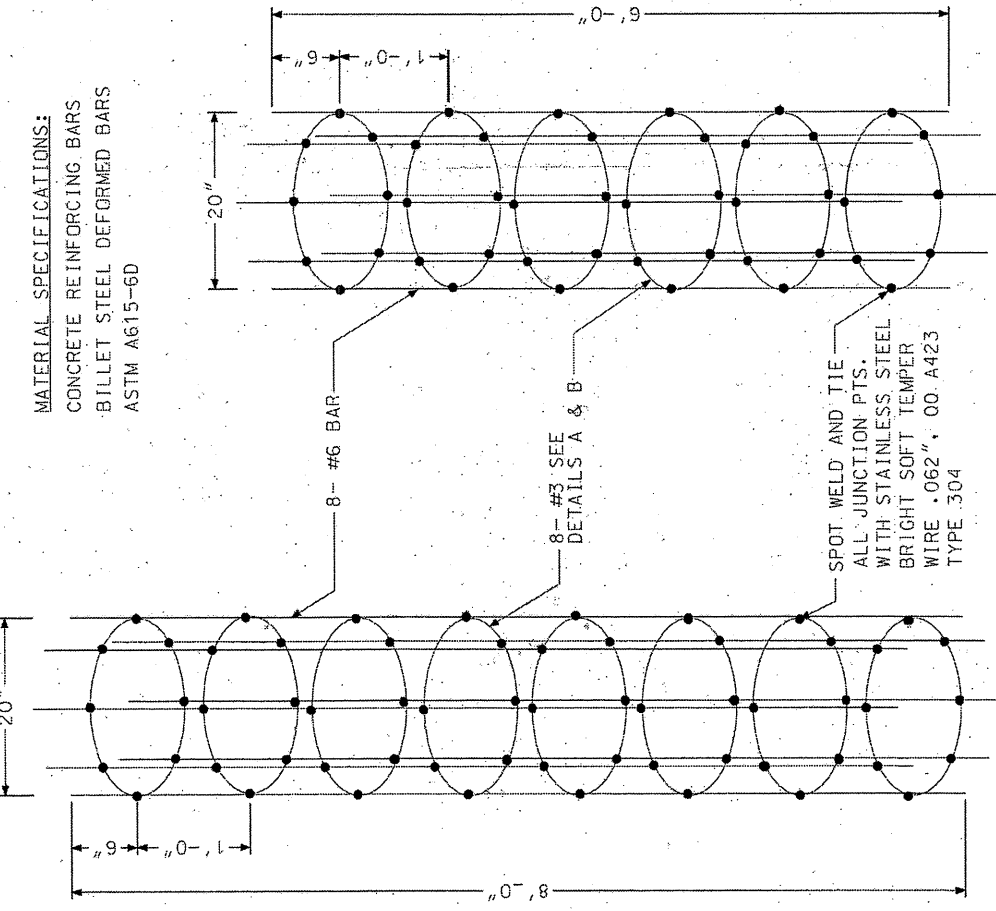
| STANDARD LIGHTING LEGEND (SYMBOLS) |                              |
|------------------------------------|------------------------------|
| SCALE:                             | SHEET OF SHEETS STA. TO STA. |

|                             |                   |             |                 |              |
|-----------------------------|-------------------|-------------|-----------------|--------------|
| F.A.U. RTE. 1583            | SECTION 0303-RS&N | COUNTY COOK | TOTAL SHEETS 87 | SHEET NO. 58 |
| CONTRACT NO. 60V52          |                   |             |                 |              |
| [ILLINOIS] FED. AID PROJECT |                   |             |                 |              |

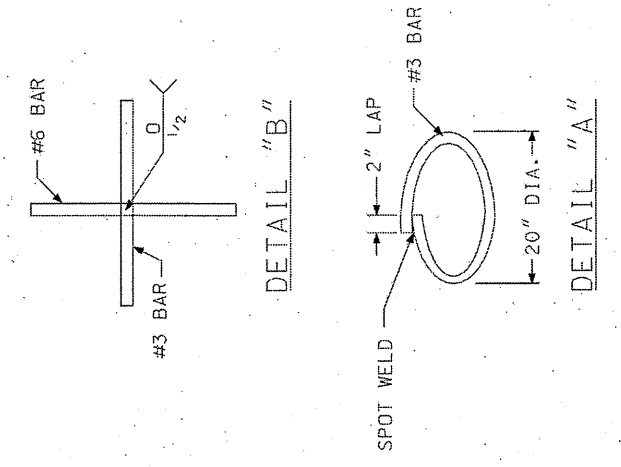
|            |                        |          |              |         |   |
|------------|------------------------|----------|--------------|---------|---|
| USER NAME  | • mgorvide             | DESIGNED | - MG         | REVISED | - |
| FILE NAME  | • D168V52-shr-11ght-18 | DRAWN    | - CN         | REVISED | - |
| PLOT SCALE | • 60.000000:1.000000   | CHECKED  | - KCP        | REVISED | - |
| PLOT DATE  | • 19-JUN-2015 16:02    | DATE     | - 06/19/2015 | REVISED | - |

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.J. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1583                      | 0303-RS&N | COOK   | 87           | 59        |
| CONTRACT NO. 60V52        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

**MATERIAL SPECIFICATIONS:**  
CONCRETE REINFORCING BARS  
BILLET STEEL DEFORMED BARS  
ASTM A615-6D



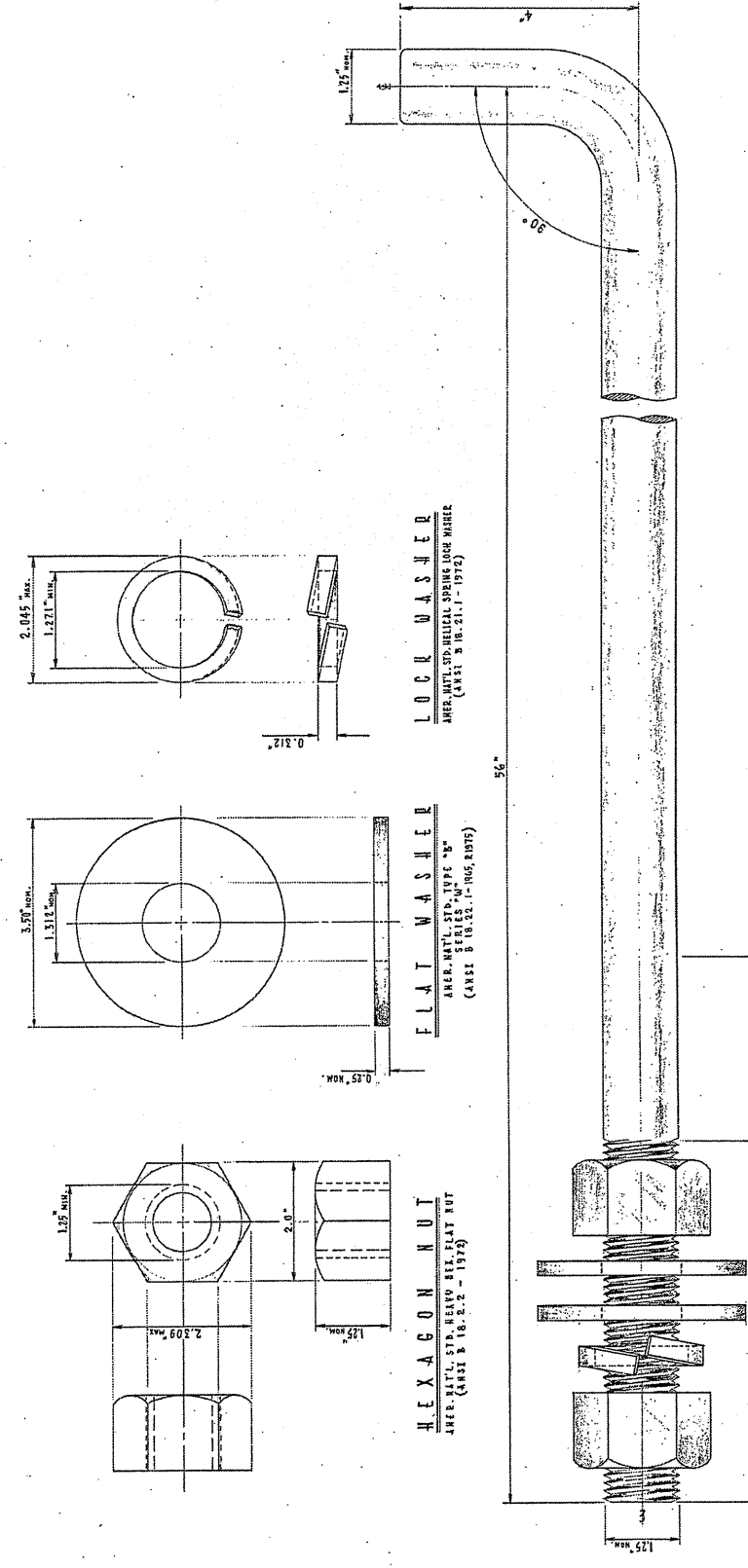
| CODE     | COMMODITY  | SIZE  | QUANTITY |
|----------|--|-------|----------|
| 20-9545- | ROD, WELDING LINCOLN WELD OR EQUAL               | #7018 | 5#       |
| 31-      | WIRE, TIE STEEL STAINLESS 00.W423 COND. "A" SOFT | .062  | 1.0#     |



|          |      |
|----------|------|
| REVISION | DATE |
|          |      |

STEEL CAGES FOR POLE FOUNDATIONS

CITY OF CHICAGO  
DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING DIVISION  
DESIGNER: [Signature]  
DATE: 7/9/14  
DRAWN: [Signature]  
CHECKED: [Signature]  
793A  
DATE: 06-19-15



**1 1/2" x 60" STEEL ANCHOR ROD**

COMMODITY CODE 37-8180-0236

REVISION: A (JUN 27, 2015)

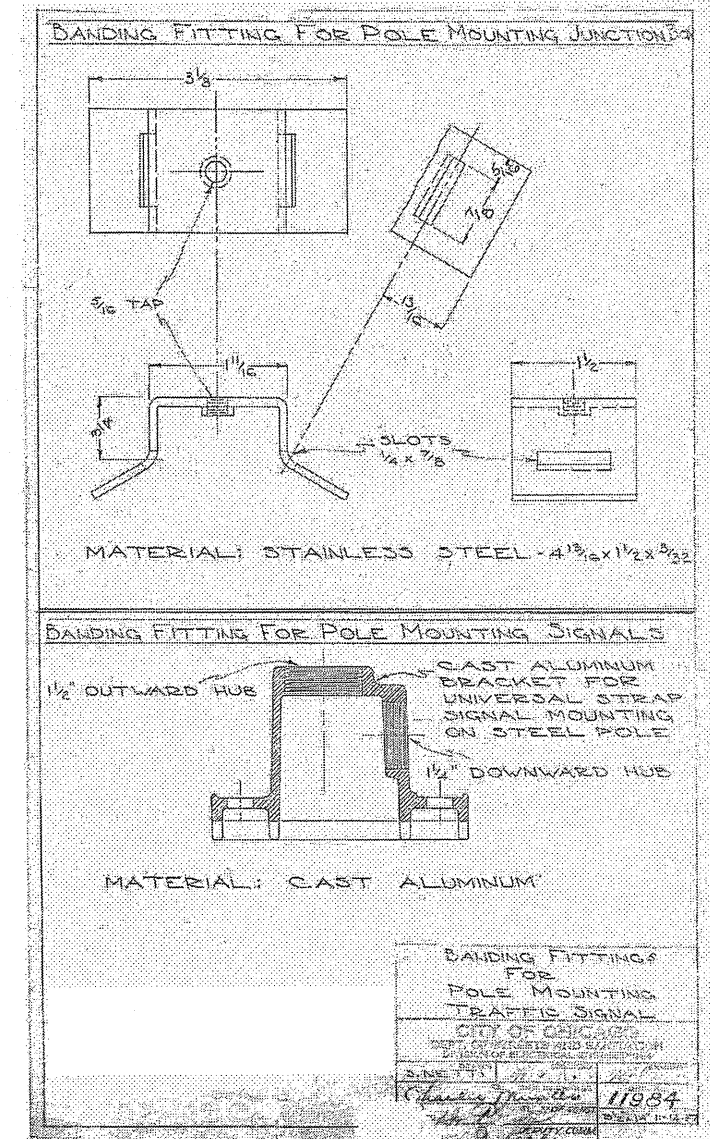
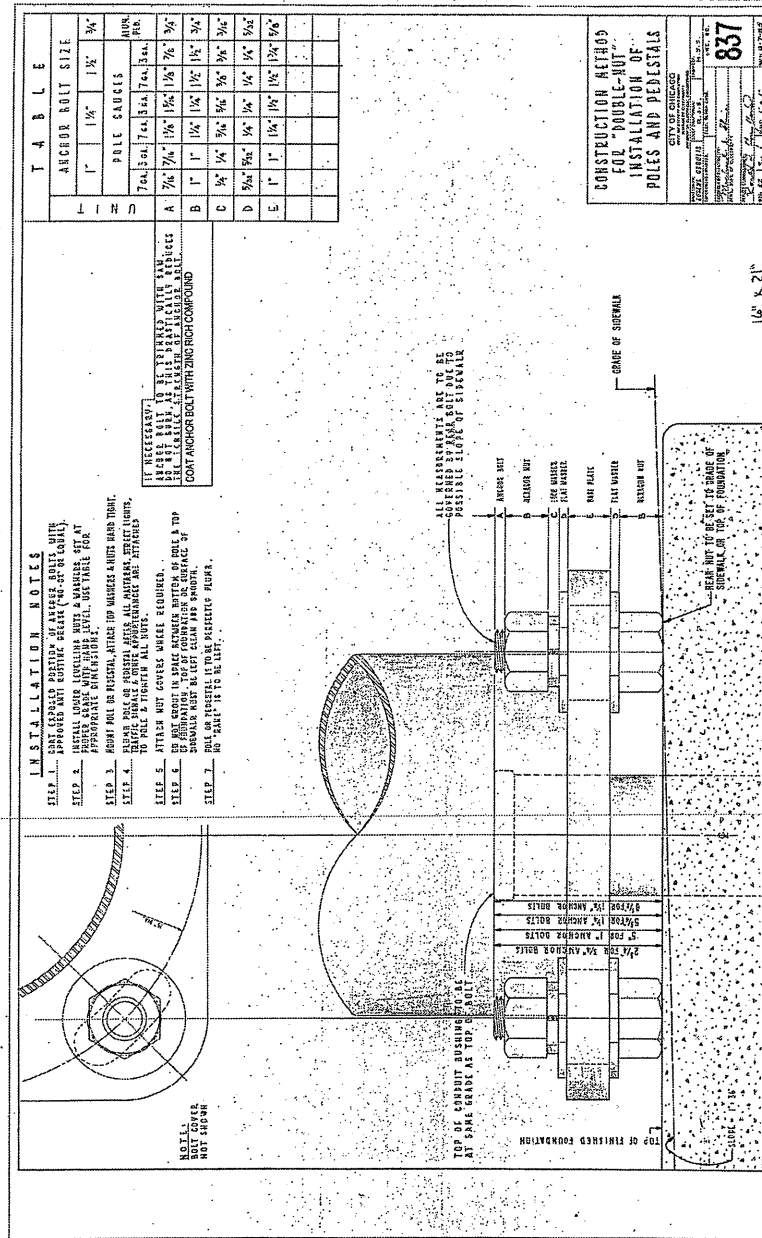
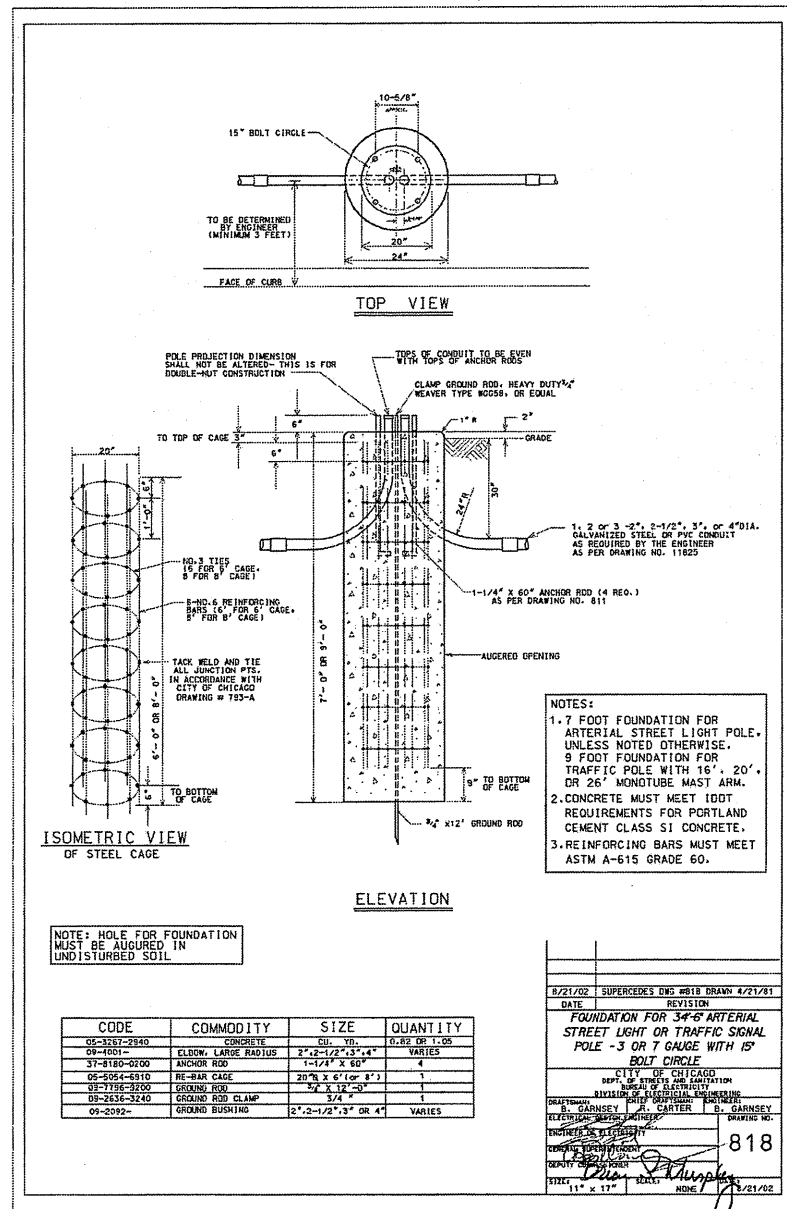
DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
DATE: 7/9/14

811

DATE: 06-19-15

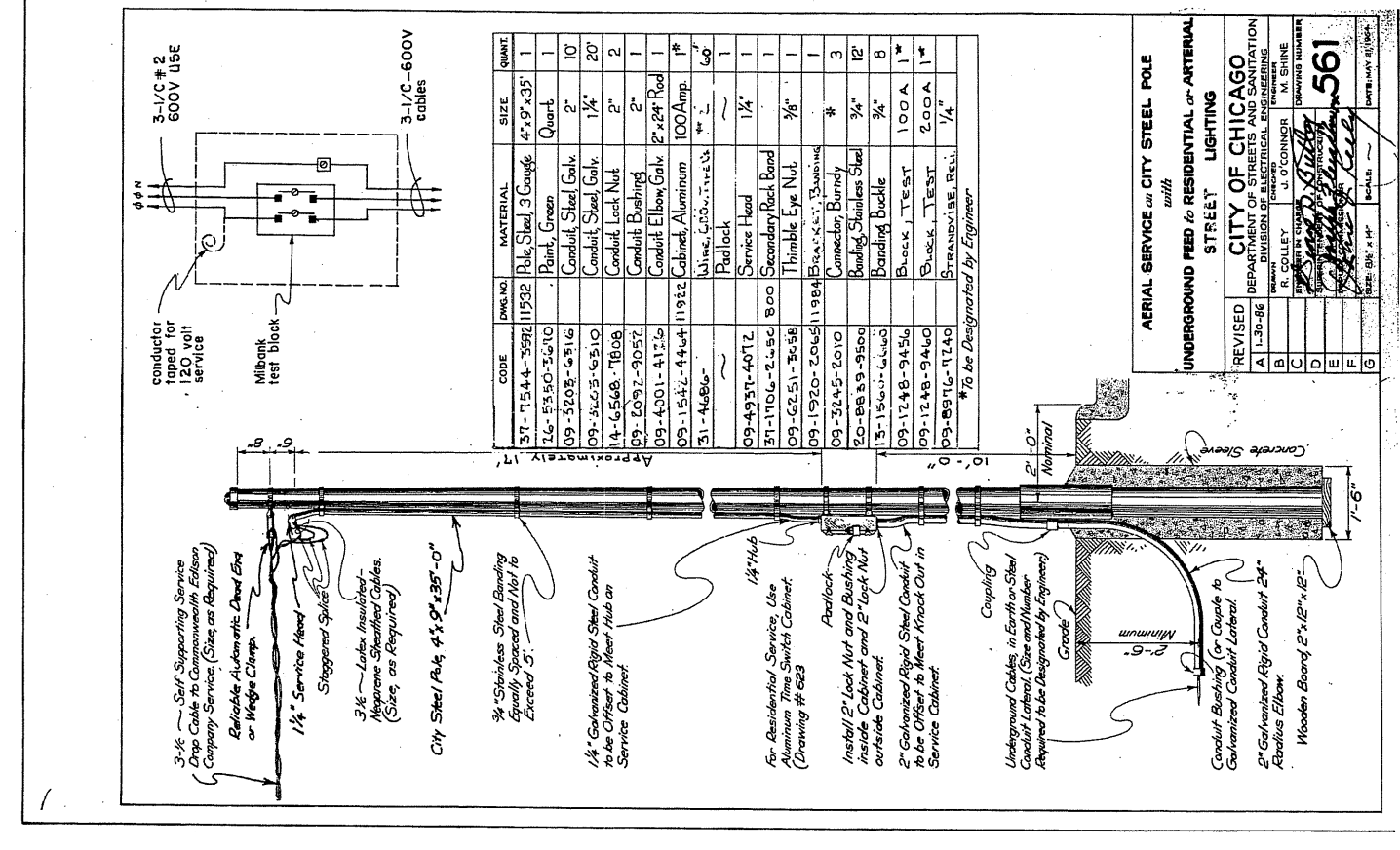
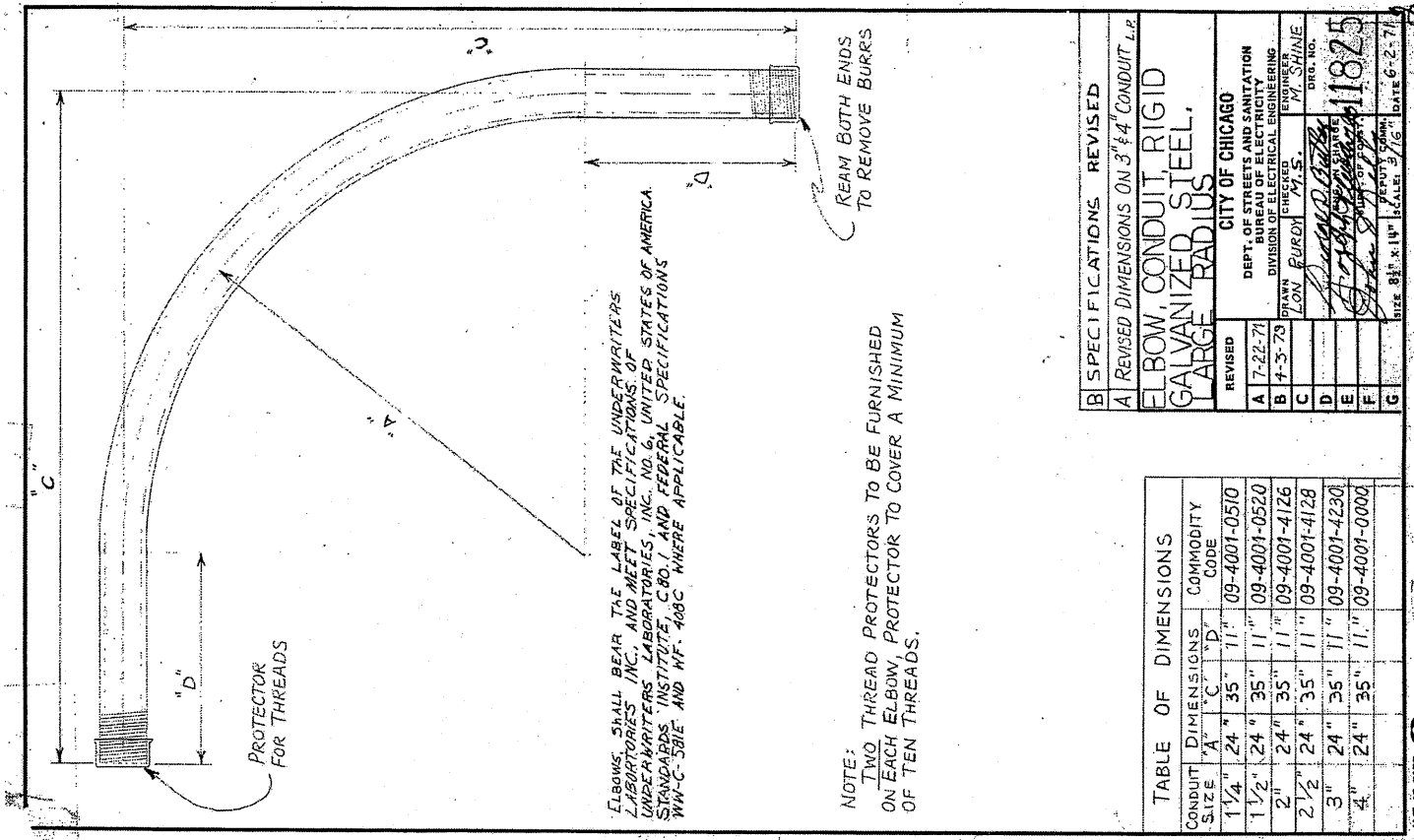
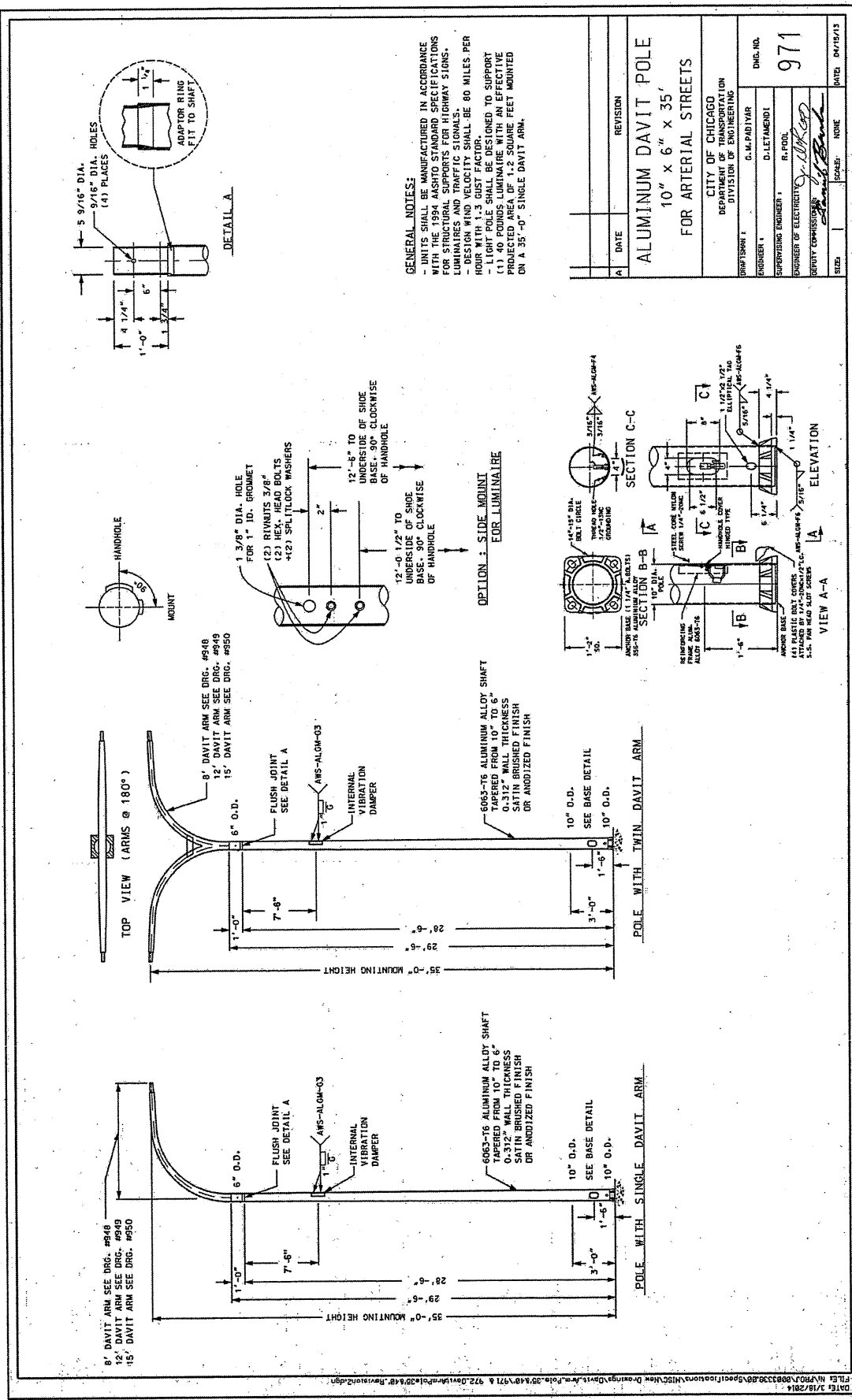
**MATERIAL:**  
ASTM A490, CLASS B-2, MODIFIED STEEL, 55 000 LBS. MINIMUM YIELD.  
ZINC COATING, 0.0021 INCH IN THICKNESS  
ZINC OIL-BLENDED COPPER-CHROMIUM RUST INHIBITING COMPOUND

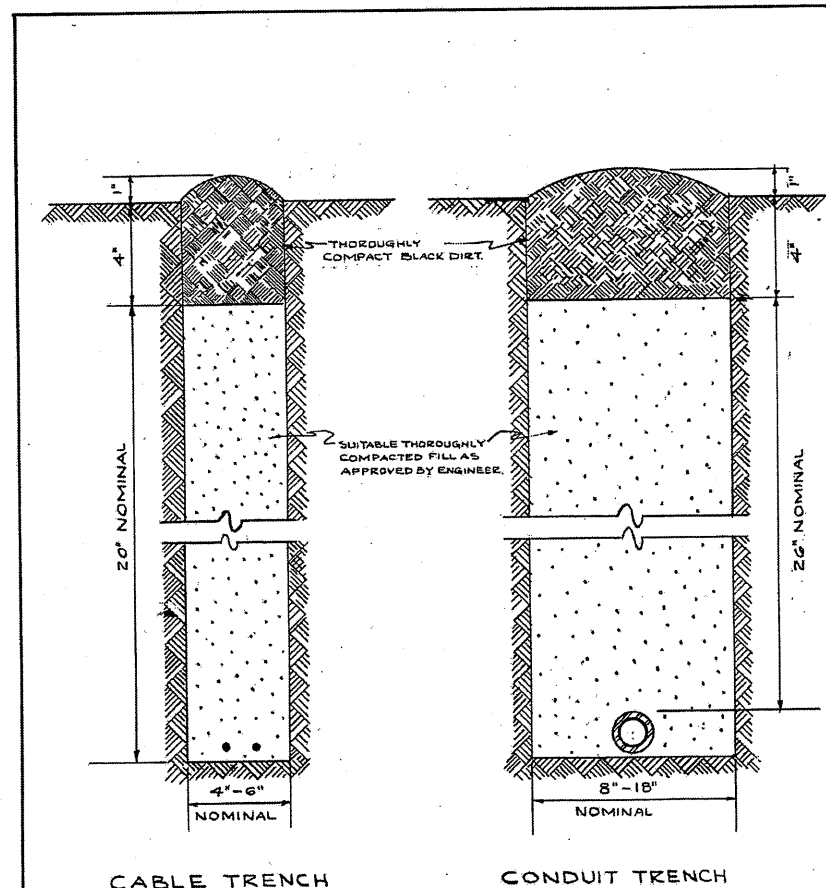
TO BE FURNISHED & ATTACHED IN PLACE ON ROD FOR SHIPPING:  
1 WASHER, STEEL, ROUND, GALV., TYPE "B", SERIES "M", 1/4".  
2 WASHERS, STEEL, ROUND, GALV., TYPE "B", SERIES "M", 1/4".  
1 WASHER, LOCK, STEEL, GALV., HELICAL SPRING, REGULAR, 1/4".  
BOLT & NUTS SHALL HAVE AN AMERICAN STANDARD CLASS 2 OR 3 FIT (NOT IS TAPPED OVERSIZE BY 1/32")



|                                  |                   |           |
|----------------------------------|-------------------|-----------|
| USER NAME * mgorvido             | DESIGNED - MG     | REVISED - |
| FILE NAME * 0168Y52-whr-light-12 | DRAWN - CN        | REVISED - |
| PLOT SCALE * 60.000000/1.000000  | CHECKED - KGP     | REVISED - |
| PLOT DATE * 19-JUN-2015 16:03    | DATE - 06/19/2015 | REVISED - |

|                           |                   |             |                    |              |
|---------------------------|-------------------|-------------|--------------------|--------------|
| F.A.U. RTE. 1583          | SECTION 0303-RS&N | COUNTY COOK | TOTAL SHEETS 87    | SHEET NO. 61 |
| ILLINOIS FED. AID PROJECT |                   |             | CONTRACT NO. 60V52 |              |



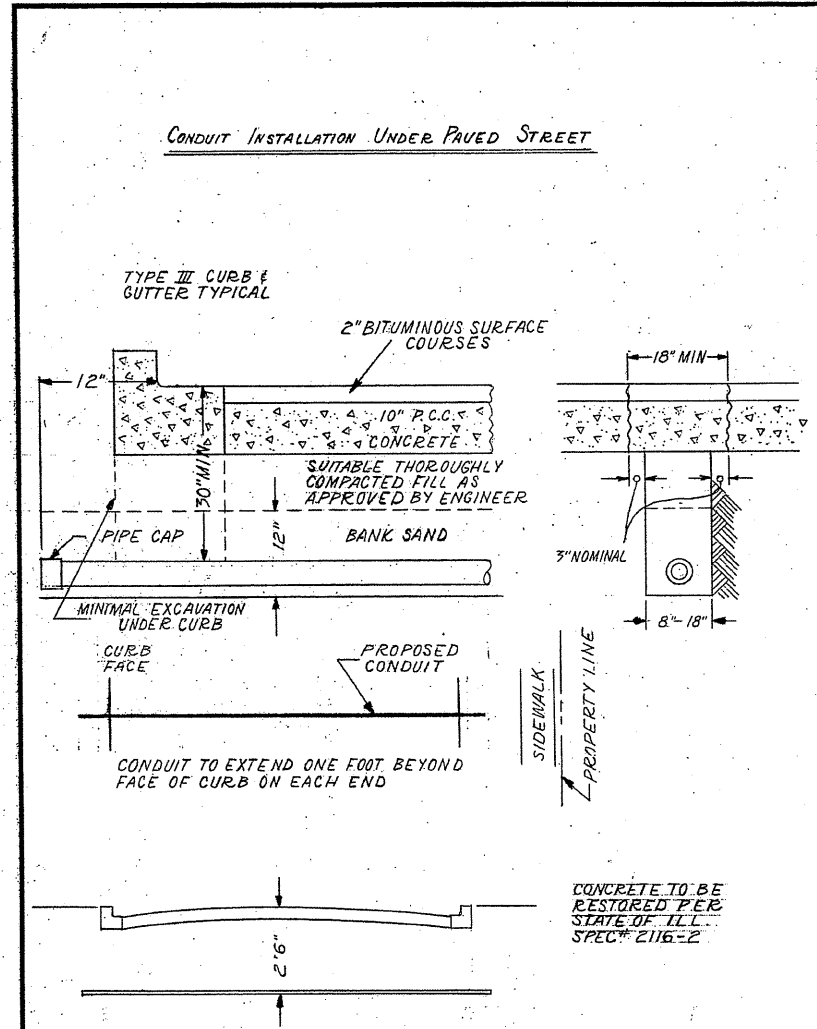


CABLE TRENCH

CONDUIT TRENCH

**NOTE**  
 EXCESS (20%) FROM TRENCH TO BE COMPLETELY REMOVED FROM SITE AS SOON AS PRACTICABLE.  
 BLACK DIRT TO BE TAMPED & THOROUGHLY COMPACTED AS SHOWN.

| STANDARD METHOD FOR BACKFILLING CABLE & CONDUIT TRENCHES IN SODDED PARKWAY & LAWNS |  |                               |                                    |
|--|--|-------------------------------|------------------------------------|
| REVISION   | CITY OF CHICAGO                            | DEPT. OF STREETS & SANITATION | DIVISION OF ELECTRICAL ENGINEERING |
| A  | DRAWN: W.E. HAER                           | CHECKED: M. J. JONES          | ENGINEER: J. O'CONNOR              |
| B  | ENGR. IN CHARGE: <i>Charles E. Bentley</i> |                               | DRG. NO. 579                       |
| C  | SUP'T. OF CON'T: <i>William J. Kelly</i>   |                               |                                    |
| D  | DATE: 7-14-61                              |                               |                                    |



CONDUIT INSTALLATION UNDER PAVED STREET

TYPE III CURB & GUTTER TYPICAL

2" BITUMINOUS SURFACE COURSES

10" P.C.C. CONCRETE

SUITABLE THOROUGHLY COMPACTED FILL AS APPROVED BY ENGINEER

PIPE CAP

BANK SAND

MINIMAL EXCAVATION UNDER CURB

CURB FACE

PROPOSED CONDUIT

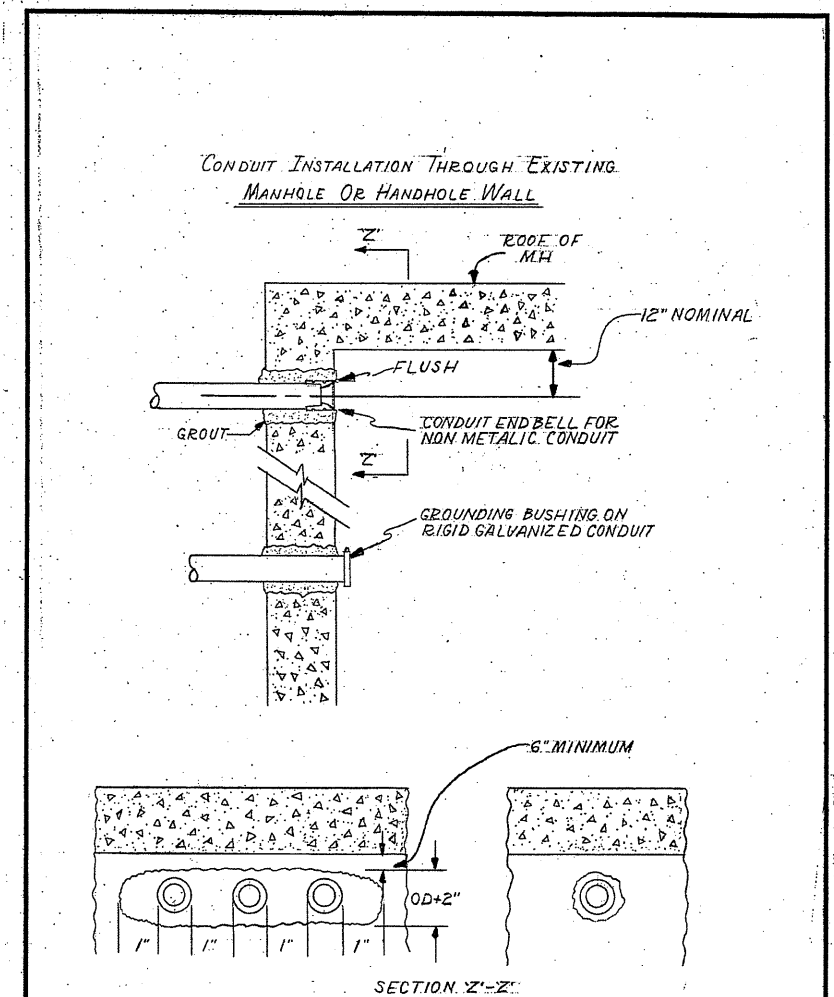
CONDUIT TO EXTEND ONE FOOT BEYOND FACE OF CURB ON EACH END

SIDEWALK

PROPERTY LINE

CONCRETE TO BE RESTORED PER STATE OF ILL. SPEC. # 2116-2

| INSTALLATION METHOD OF INSTALLING CONDUIT UNDER PAVED ROADWAY |                       |                       |
|---|-----------------------|-----------------------|
| CITY OF CHICAGO   |                       |                       |
| DEPT. OF STREETS AND SANITATION                               |                       |                       |
| BUREAU OF ELECTRICITY   |                       |                       |
| DIVISION OF ELECTRICAL ENGINEERING                            |                       |                       |
| DRAWN: A.M. JOHNSON   | CHECKED: R. SYCKOWSKI | ENGINEER: R.L. MARTIN |
| <i>Charles E. Bentley</i>                                     |                       | DRG. NO. 813          |
| ENGINEER OF ELECTRICITY                                       |                       |                       |
| SIZE: 8 1/2" X 14"  | SCALE: N.T.S.         | DATE: 5-1-61          |



CONDUIT INSTALLATION THROUGH EXISTING MANHOLE OR HANDHOLE WALL

EDGE OF MH

12" NOMINAL

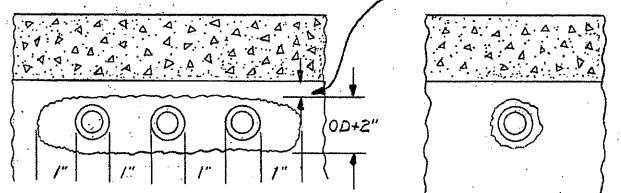
FLUSH

GROUT

CONDUIT END BELL FOR NON METALLIC CONDUIT

GROUNDING BUSHING ON RIGID GALVANIZED CONDUIT

6" MINIMUM



SECTION Z-Z

OPENING THROUGH WALL TO BE KEPT TO MINIMUM SIZE TO ADMIT CONDUIT AND SUFFICIENT GROUT TO ASSURE SEALING WALL.

| INSTALLATION METHOD OF INSTALLING CONDUIT THRU MANHOLE WALL |                       |                       |
|---|-----------------------|-----------------------|
| CITY OF CHICAGO   |                       |                       |
| DEPT. OF STREETS AND SANITATION                             |                       |                       |
| BUREAU OF ELECTRICITY                                       |                       |                       |
| DIVISION OF ELECTRICAL ENGINEERING                          |                       |                       |
| DRAWN: A.M. JOHNSON   | CHECKED: R. SYCKOWSKI | ENGINEER: R.L. MARTIN |
| <i>Charles E. Bentley</i>                                   |                       | DRG. NO. 814          |
| ENGINEER OF ELECTRICITY                                     |                       |                       |
| SIZE: 8 1/2" X 14"  | SCALE: N.T.S.         | DATE: 5-1-61          |



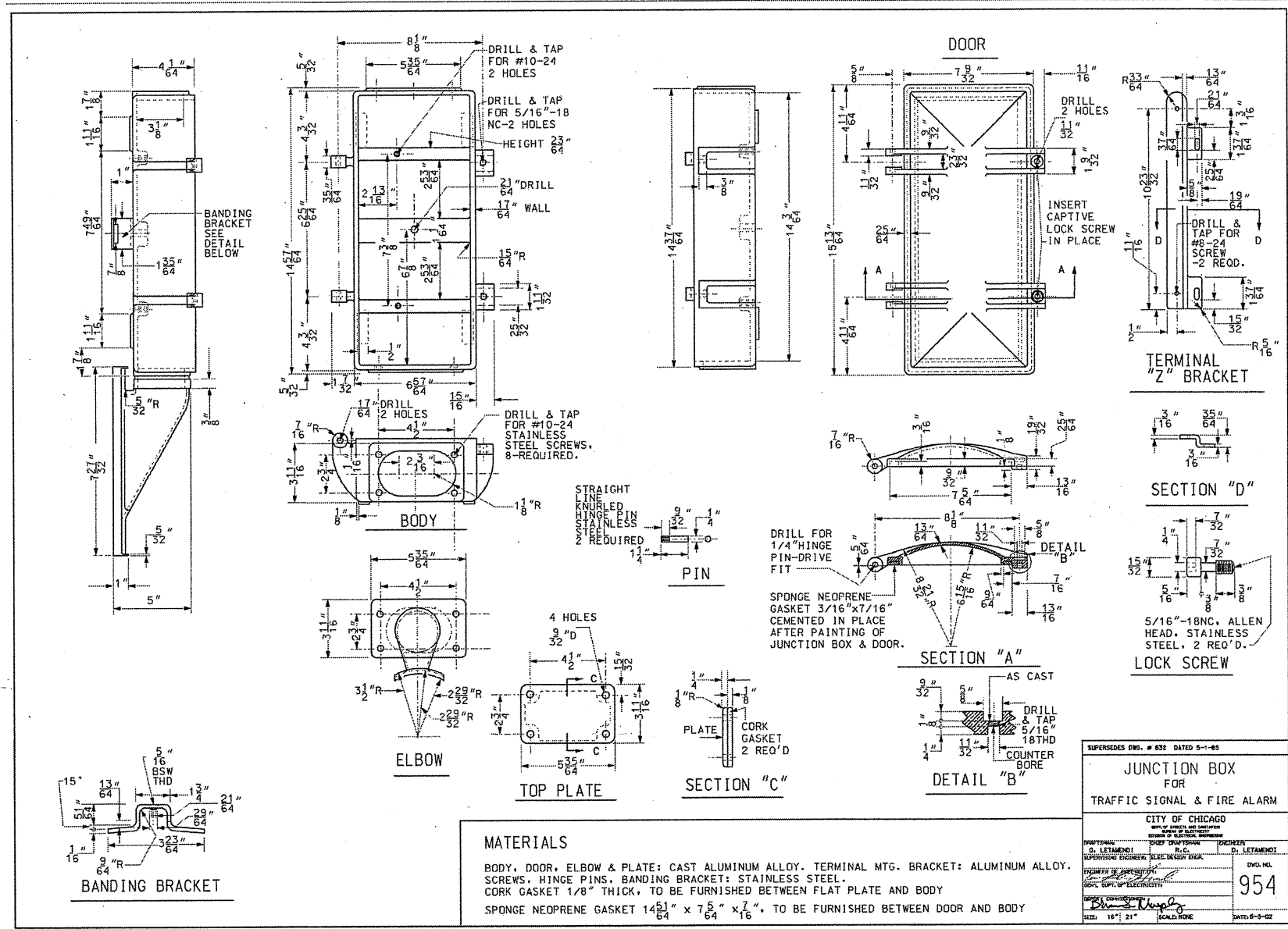
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|---------------------------------|------------------|----------|
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| FILE NAME: D160V52-sh1-light-13 | DRAWN: CN        | REVISED: |
| PLOT SCALE: 60.00000001.000000  | CHECKED: KGP     | REVISED: |
| PLOT DATE: 19-JUN-2015 16:04    | DATE: 06/19/2015 | REVISED: |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CDOT STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |                   |             |                 |              |
|---------------------------|-------------------|-------------|-----------------|--------------|
| F.A.U. RTE. 1583          | SECTION 0303-RS&N | COUNTY COOK | TOTAL SHEETS 87 | SHEET NO. 62 |
| CONTRACT NO. 60V52        |                   |             |                 |              |
| ILLINOIS FED. AID PROJECT |                   |             |                 |              |



SUPersedes DWG. # 632 DATED 5-1-85

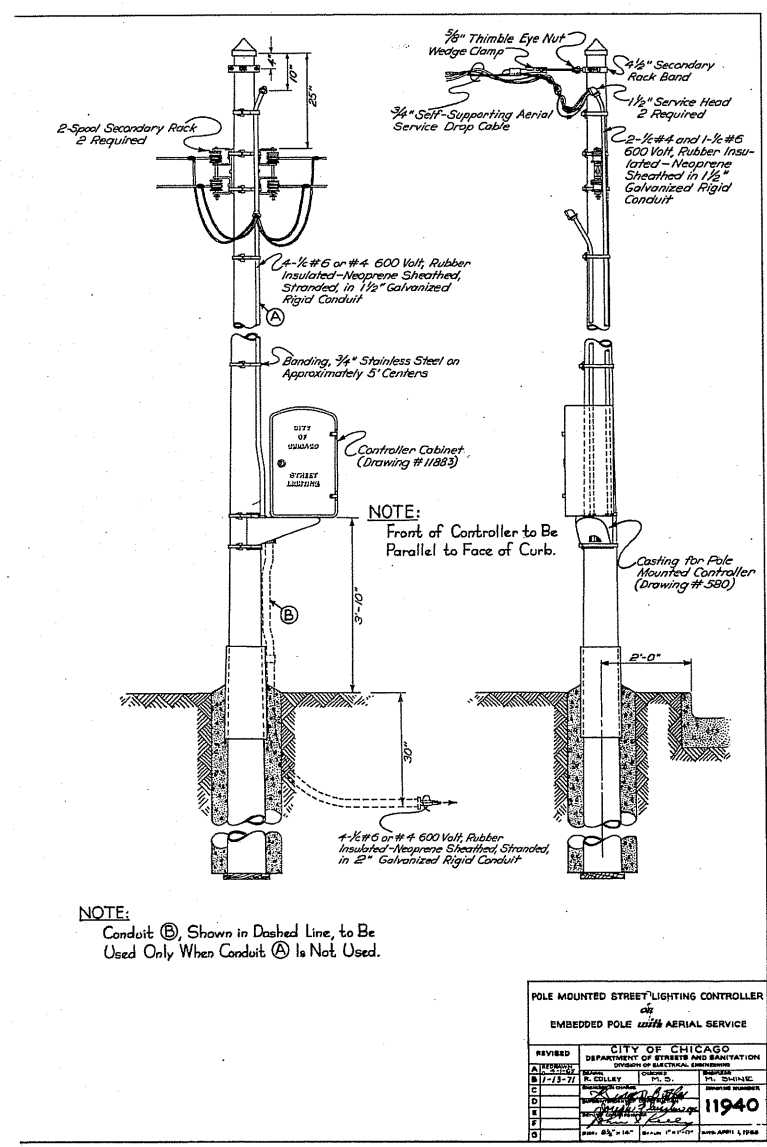
**JUNCTION BOX FOR TRAFFIC SIGNAL & FIRE ALARM**

CITY OF CHICAGO  
 DEPARTMENT OF STREET AND SANITATION  
 DIVISION OF ELECTRICAL ENGINEERING

DESIGNED BY: [Signature]  
 CHECKED BY: [Signature]  
 DATE: 06/19/2015

DWG. NO. **954**

DATE: 6-9-82



| REVISED | BY          | DATE     | REASON   |
|---------|-------------|----------|----------|
| A       | [Signature] | 11-13-71 | REVISION |
| B       | [Signature] |          | REVISION |
| C       | [Signature] |          | REVISION |
| D       | [Signature] |          | REVISION |
| E       | [Signature] |          | REVISION |
| F       | [Signature] |          | REVISION |
| G       | [Signature] |          | REVISION |

CITY OF CHICAGO  
 DEPARTMENT OF STREET AND SANITATION  
 DIVISION OF ELECTRICAL ENGINEERING

PROJECT NO. **11940**

DATE: 06-19-82

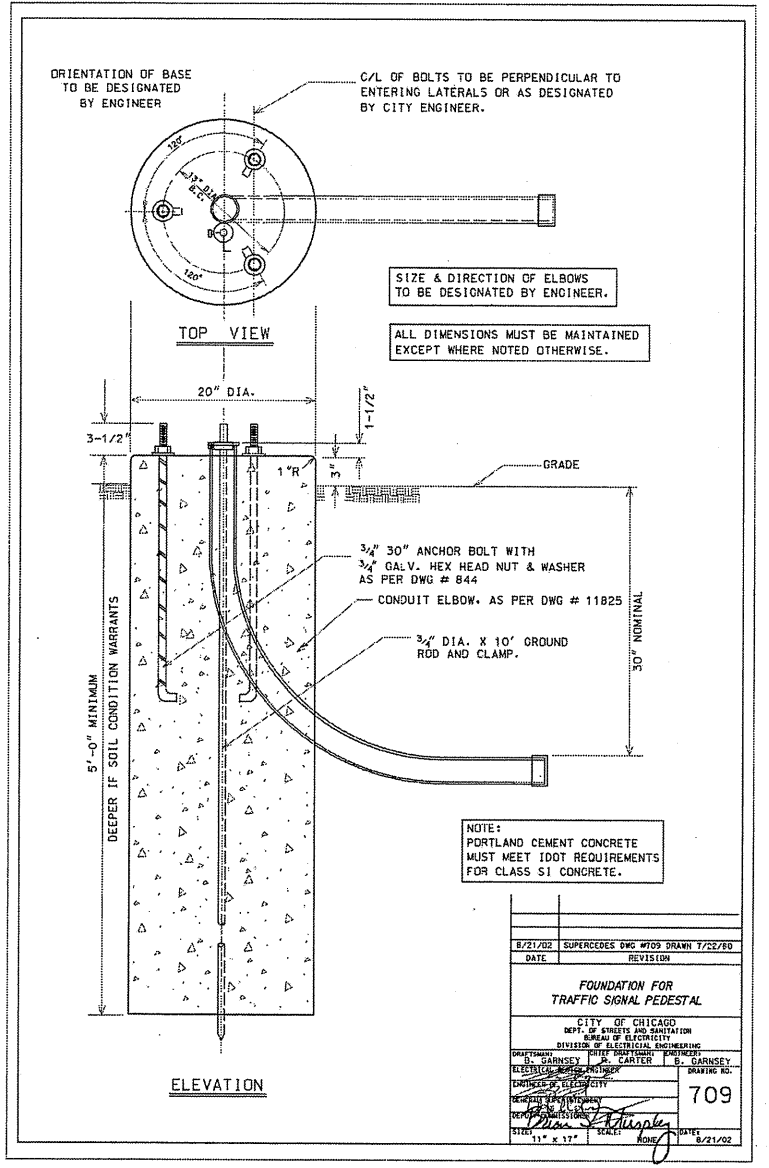
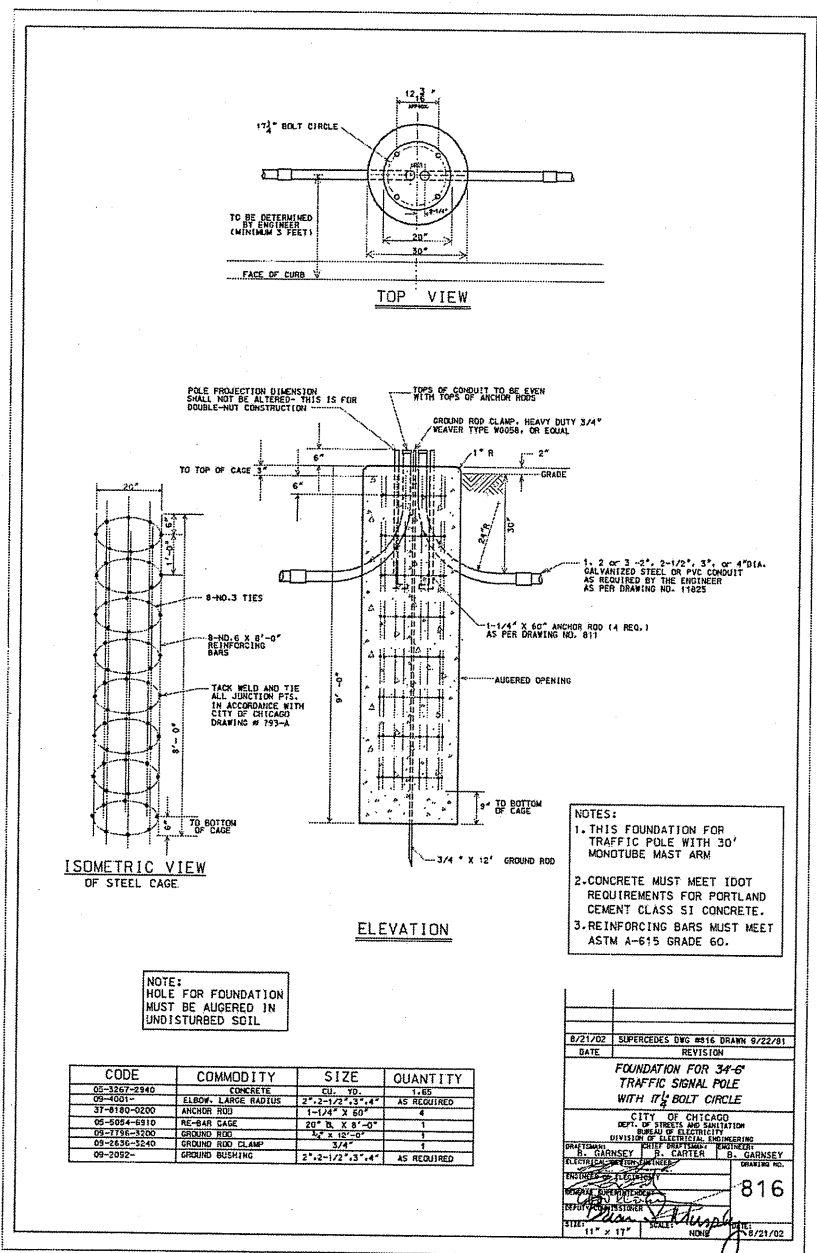
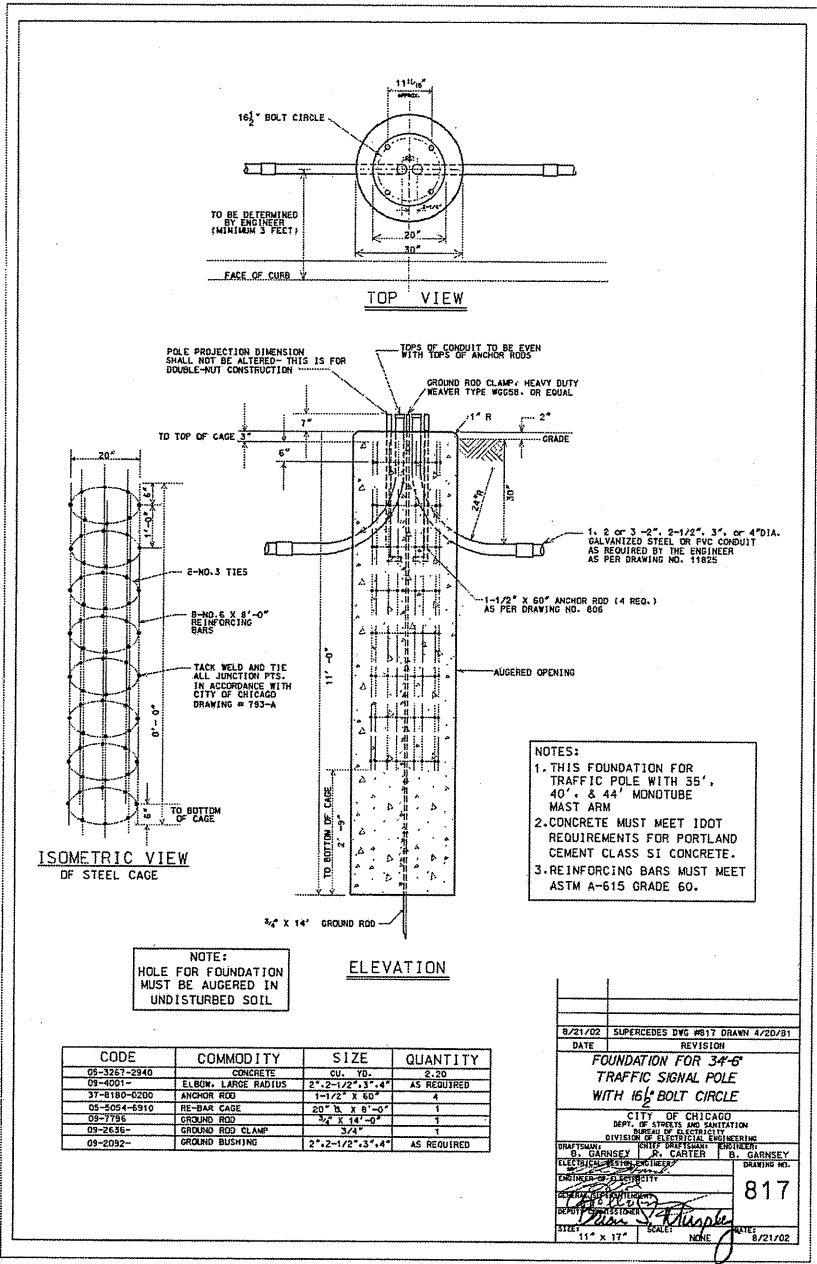


| USER NAME                       | DESIGNED         | REVISIONS |
|---------------------------------|------------------|-----------|
| mgorvido                        | MG               |           |
| FILE NAME: D168V52-shr-11ght-14 | CN               |           |
| PLOT SCALE: 60.000000:1.000000  | KCP              |           |
| PLOT DATE: 19-JUN-2015 16:04    | DATE: 06/19/2015 |           |

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

| CDOT STANDARDS | SHEET OF SHEETS | STA. TO STA. |
|----------------|-----------------|--------------|
| 1583           | 87              | 63           |

| F.A.I. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 1583                      | 0303-R5&N | COOK   | 87           | 63        |
| CONTRACT NO. 60V52        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



|                                  |                   |           |
|----------------------------------|-------------------|-----------|
| USER NAME = mgervide             | DESIGNED - MG     | REVISED - |
| FILE NAME = D168V52-sh1-light-15 | DRAWN - CN        | REVISED - |
| PLOT SCALE = 60.00000001.000000  | CHECKED - KGP     | REVISED - |
| PLOT DATE = 19-JUN-2015 16:05    | DATE - 06/19/2015 | REVISED - |

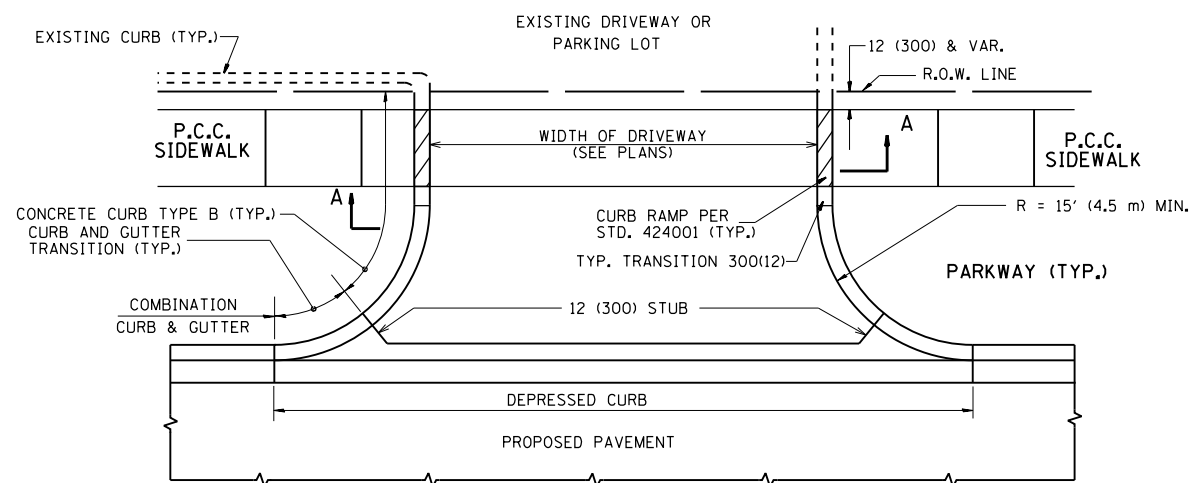
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CDOT STANDARDS

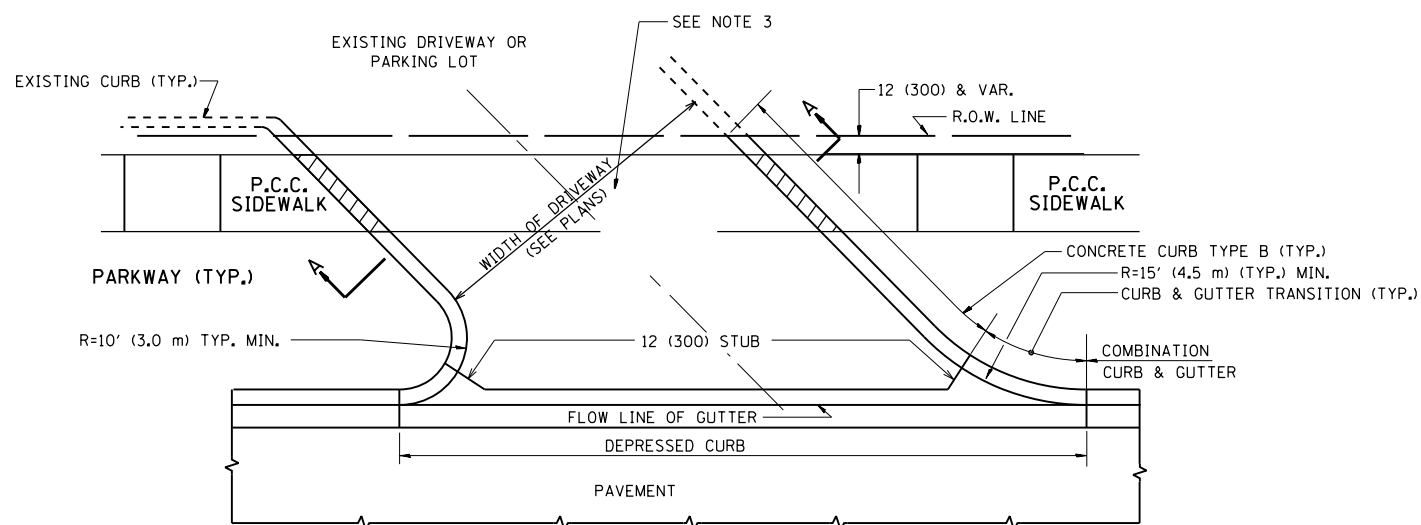
SCALE: SHEET OF SHEETS STA. TO STA.

|                           |                   |             |                 |              |
|---------------------------|-------------------|-------------|-----------------|--------------|
| F.A.U. RTE. 1563          | SECTION 0303-RS&N | COUNTY COOK | TOTAL SHEETS 87 | SHEET NO. 64 |
| CONTRACT NO. 60V52        |                   |             |                 |              |
| ILLINOIS FED. AID PROJECT |                   |             |                 |              |

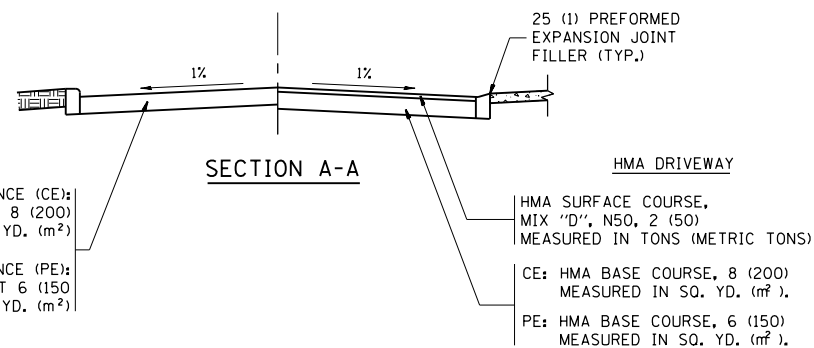




WITH CONCRETE CURB, TYPE B

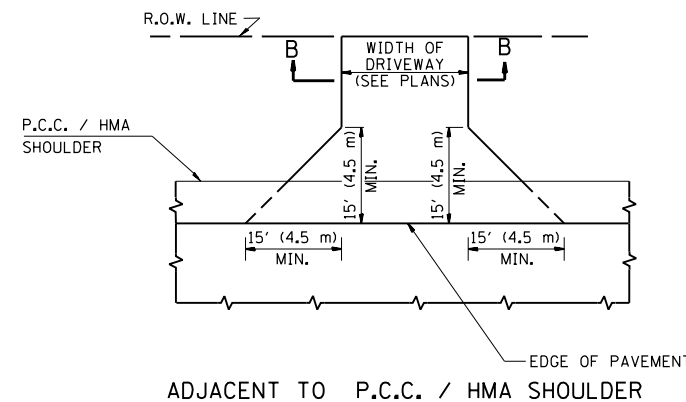


WITH CONCRETE CURB, TYPE B

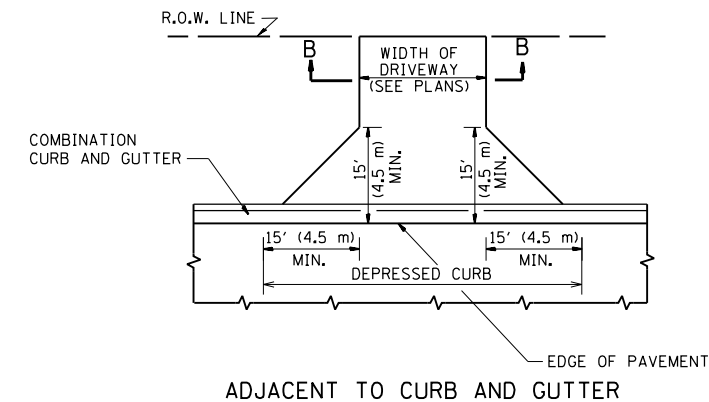


**RIGID DRIVEWAY**  
 COMMERCIAL ENTRANCE (CE):  
 P.C.C. DRIVEWAY PAVEMENT 8 (200)  
 MEASURED IN SQ. YD. (m<sup>2</sup>)  
 NON-COMMERCIAL ENTRANCE (PE):  
 P.C.C. DRIVEWAY PAVEMENT 6 (150)  
 MEASURED IN SQ. YD. (m<sup>2</sup>)

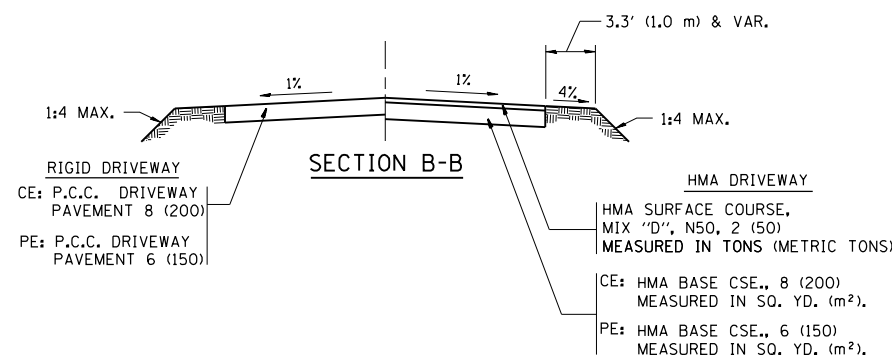
**HMA DRIVEWAY**  
 HMA SURFACE COURSE,  
 MIX "D", N50, 2 (50)  
 MEASURED IN TONS (METRIC TONS)  
 CE: HMA BASE COURSE, 8 (200)  
 MEASURED IN SQ. YD. (m<sup>2</sup>),  
 PE: HMA BASE COURSE, 6 (150)  
 MEASURED IN SQ. YD. (m<sup>2</sup>).



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



**GENERAL NOTES:**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

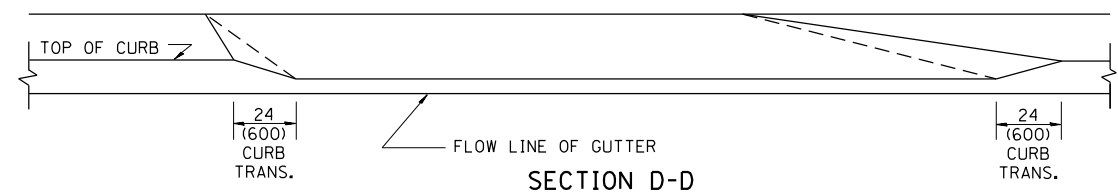
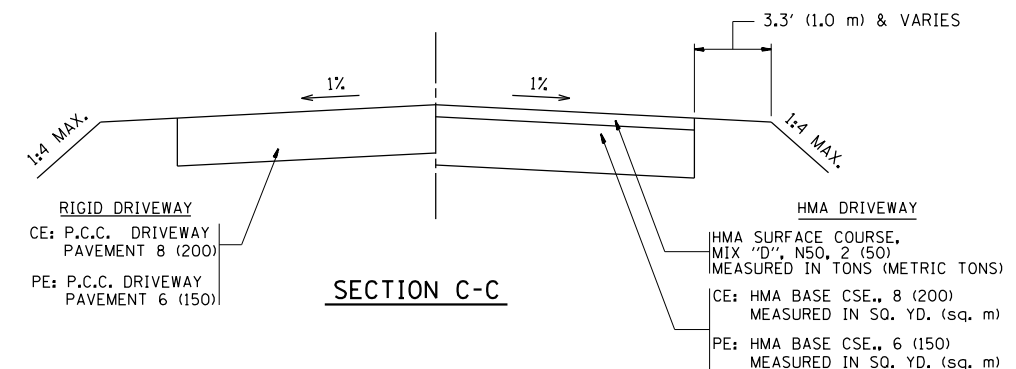
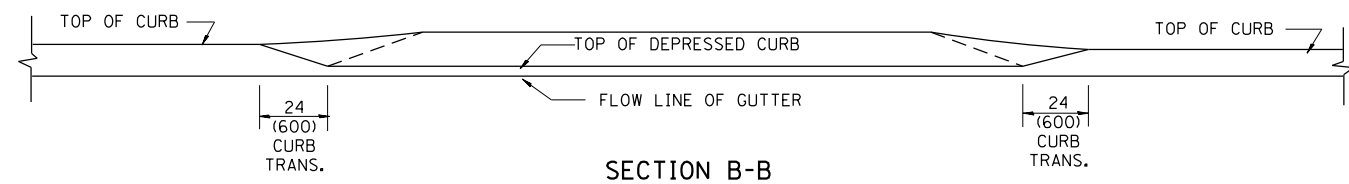
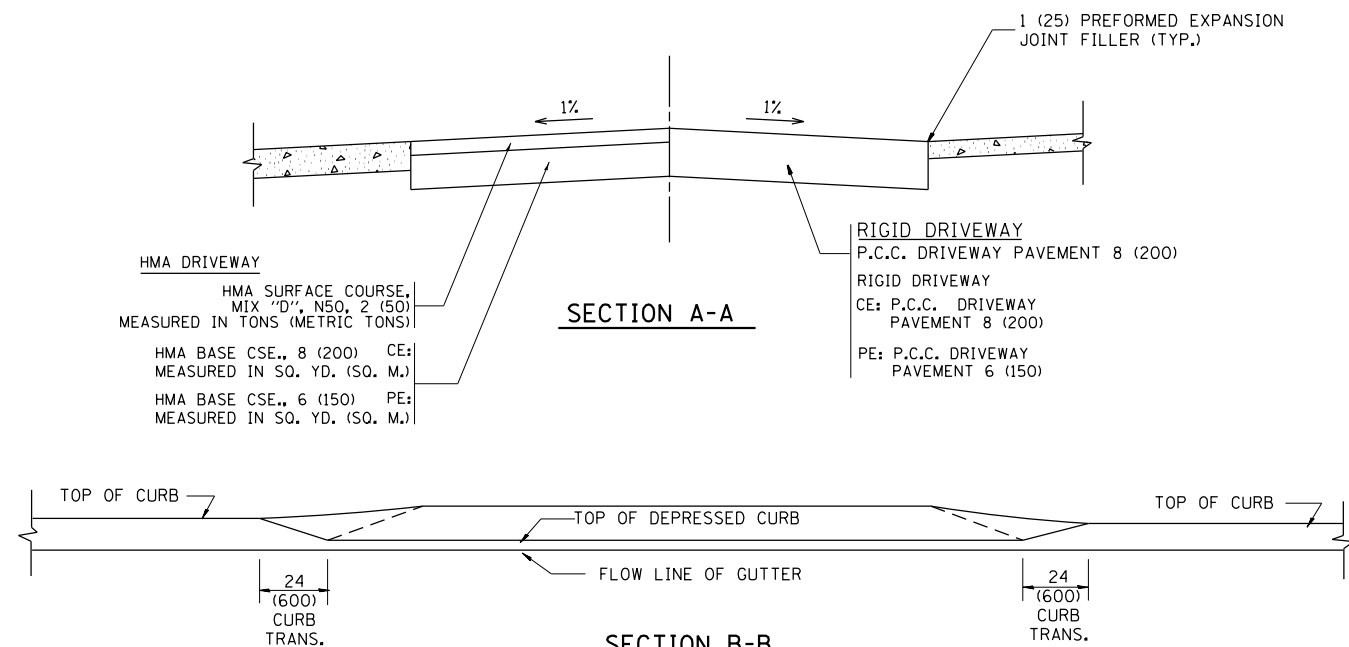
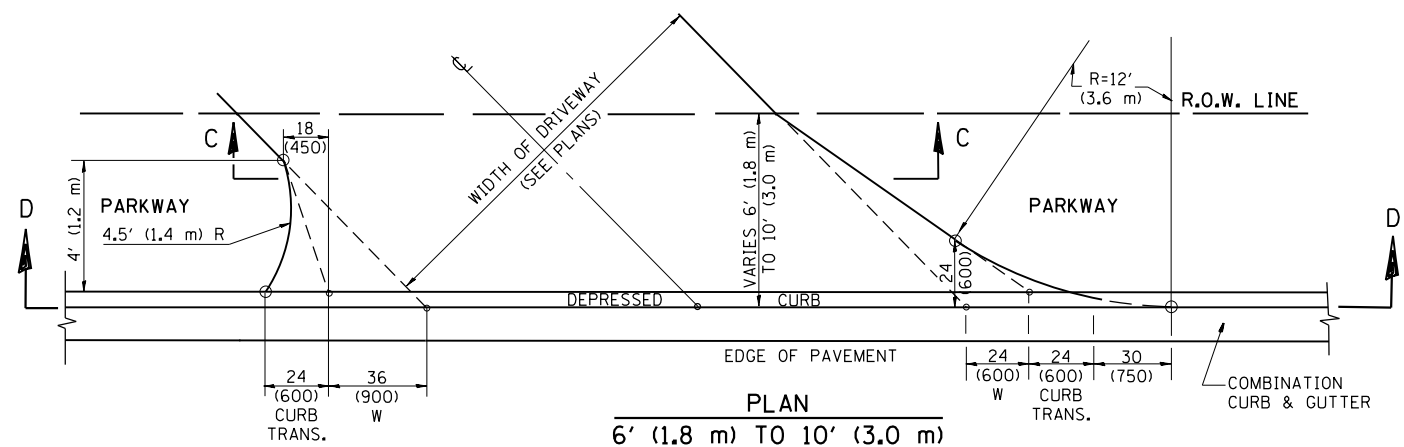
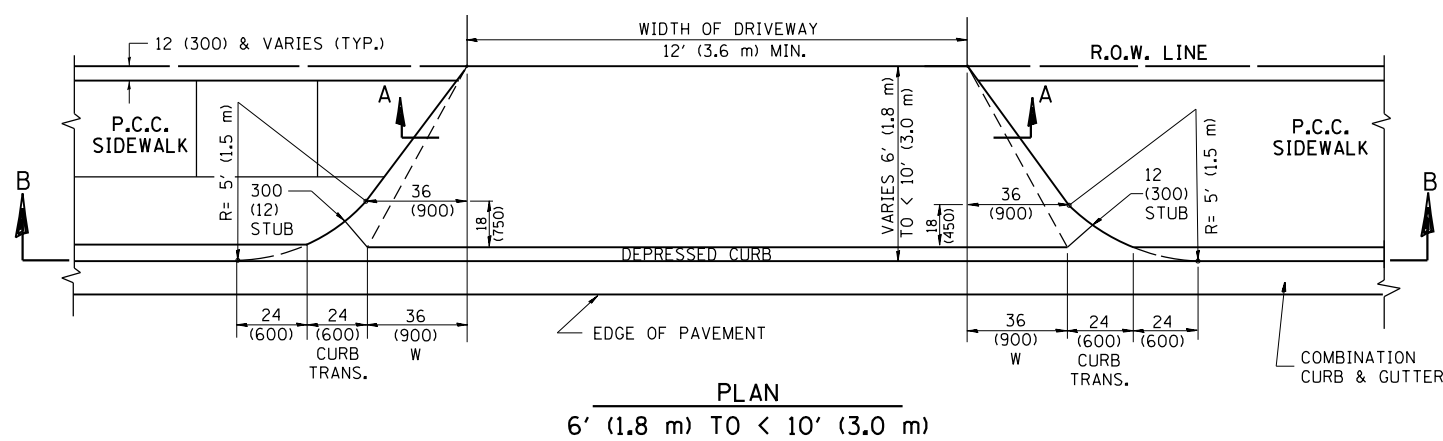
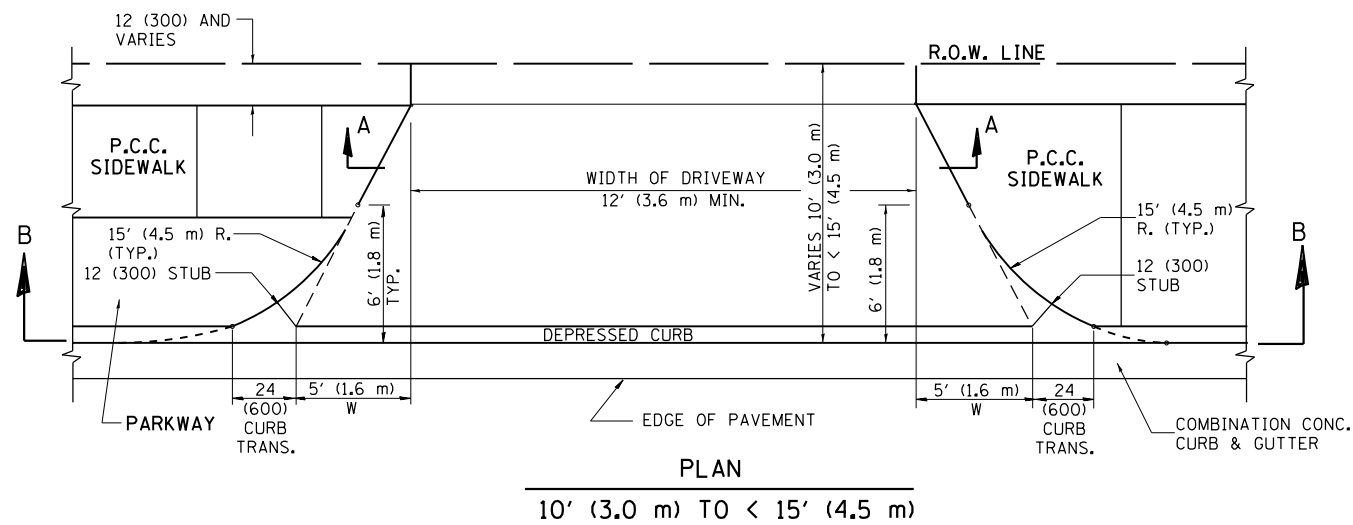
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

|   |                           |                    |                               |
|---|---------------------------|--------------------|-------------------------------|
| FILE NAME =   | USER NAME = pyzzenowskirb | DESIGNED - R. SHAH | REVISED - P. LaFLUER 04-15-03 |
| pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-shit-cover.dgn |                           | CHECKED -          | REVISED - R. BORO 01-01-07    |
| PLOT SCALE = 100.0002' / 1"   |                           | DATE - 11-04-95    | REVISED - R. BORO 06-11-08    |
| PLOT DATE = 6/29/2015   |                           |                    | REVISED - R. BORO 09-06-11    |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

|  |                         |      |         |
|--|-------------------------|------|---------|
| DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.<br>AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m) |                         |      |         |
| SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

|   |           |        |                    |           |
|---|-----------|--------|--------------------|-----------|
| F.A. RTE.                                       | SECTION   | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 1583  | 0303-RS&N | COOK   | 87                 | 64A       |
| BD0156-07 (BD-01)                               |           |        | CONTRACT NO. 60V52 |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |                    |           |



**GENERAL NOTES**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

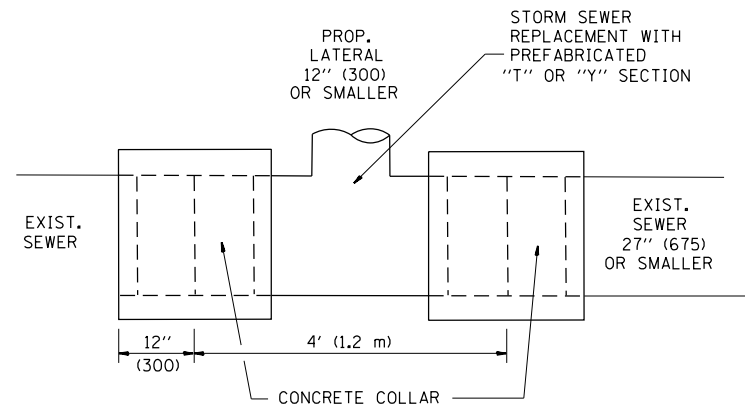
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

|   |                           |                    |                               |
|---|---------------------------|--------------------|-------------------------------|
| FILE NAME =   | USER NAME = pyrzenowskirb | DESIGNED - R. SHAH | REVISED - M. GOMEZ 04-06-01   |
| pw\1\084EBIDINTEG.illinois.gov\PIWDDTDocuments\IDOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-sht-cover.dgn |                           | CHECKED -          | REVISED - P. LaFLEUR 04-15-03 |
| PLOT SCALE = 100.0002' / 1"   |                           | DATE - 11-06-95    | REVISED - R. BORO 01-01-07    |
| PLOT DATE = 6/29/2015   |                           |                    | REVISED - R. BORO 01-01-07    |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

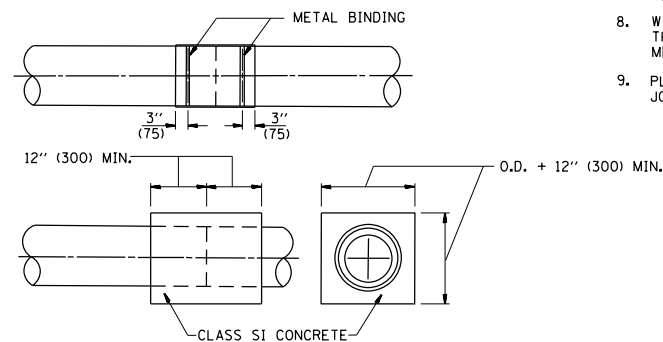
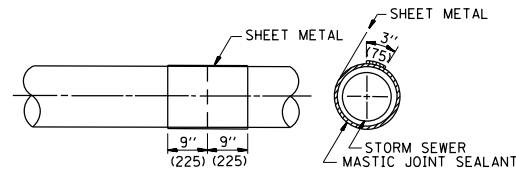
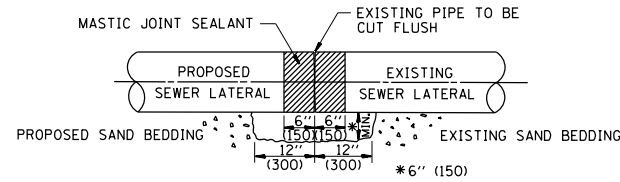
| DRIVEWAY DETAILS                                    |                                      |
|---|--------------------------------------|
| DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m) |                                      |
| SCALE: NONE   | SHEET NO. 1 OF 1 SHEETS STA. TO STA. |

| F.A. RTE.                                       | SECTION   | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---|-----------|--------|--------------------|-----------|
| 1583  | 0303-RS&N | COOK   | 87                 | 64B       |
| BD400-02 (BD-02)                                |           |        | CONTRACT NO. 60V52 |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |                    |           |



**DETAIL "A"**

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



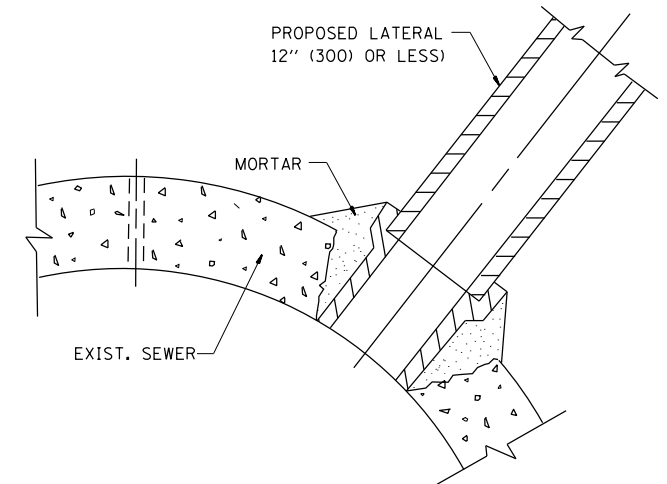
**DETAIL "B"**

CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



**DETAIL "C"**

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

**NOTES**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

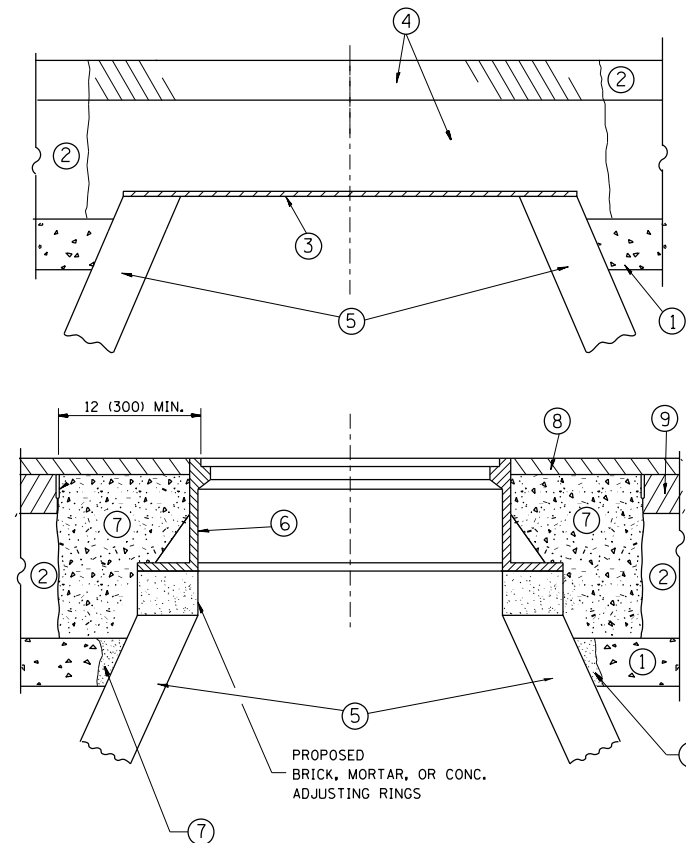
CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

|  |                         |                       |                               |
|--|-------------------------|-----------------------|-------------------------------|
| FILE NAME =  | USER NAME = pyrzenowski | DESIGNED - M. DE YONG | REVISED - M. DE YONG 05-08-92 |
| p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-shr-cover.dgn |                         | CHECKED -             | REVISED - R. SHAH 09-09-94    |
|  |                         | DATE - 07-25-90       | REVISED - R. SHAH 10-25-94    |
|  |                         |                       | REVISED - R. SHAH 06-12-96    |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|   |                         |      |         |
|---|-------------------------|------|---------|
| <b>DETAIL OF STORM SEWER<br/>CONNECTION TO EXISTING SEWER</b> |                         |      |         |
| SCALE: NONE   | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

|   |           |        |                           |           |
|---|-----------|--------|---------------------------|-----------|
| F.A.U. RTE.                                     | SECTION   | COUNTY | TOTAL SHEETS              | SHEET NO. |
| 1583  | 0303-RS&N | COOK   | 87                        | 65        |
| <b>BD500-01 (BD-7)</b>                          |           |        | <b>CONTRACT NO. 60V52</b> |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |                           |           |



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1\* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

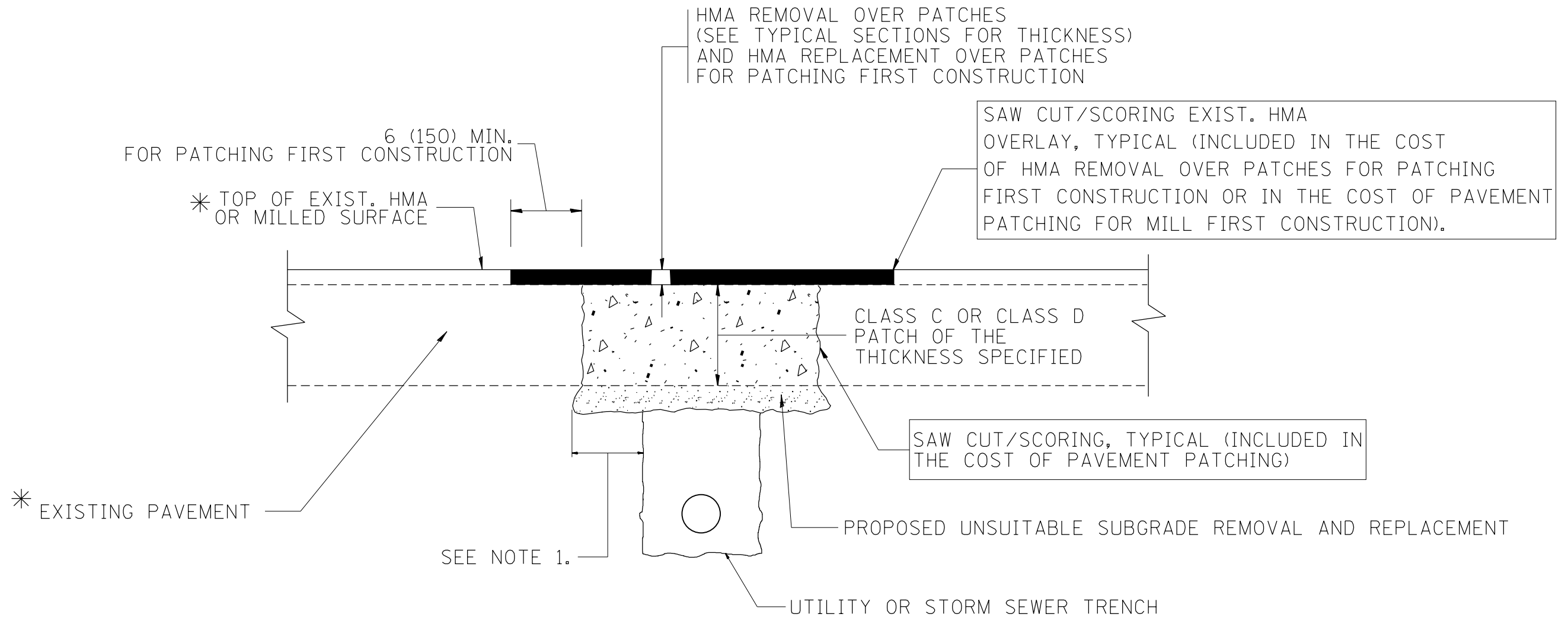
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

|   |                         |                    |                                |
|---|-------------------------|--------------------|--------------------------------|
| FILE NAME =   | USER NAME = pyrzenowski | DESIGNED - R. SHAH | REVISED - R. WIEDEMAN 05-14-04 |
| p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-shit-cover.dgn |                         |                    | REVISED - R. BORO 01-01-07     |
|   |                         | CHECKED -          | REVISED - R. BORO 03-09-11     |
|   |                         | DATE - 10-25-94    | REVISED - R. BORO 12-06-11     |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|  |                         |      |         |
|--|-------------------------|------|---------|
| <b>DETAILS FOR<br/>FRAMES AND LIDS ADJUSTMENT WITH MILLING</b> |                         |      |         |
| SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

|   |           |                           |              |           |
|---|-----------|---------------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION   | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 1583  | 0303-RS&N | COOK                      | 87           | 66        |
| <b>BD600-03 (BD-8)</b>                          |           | <b>CONTRACT NO. 60V52</b> |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                           |              |           |



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

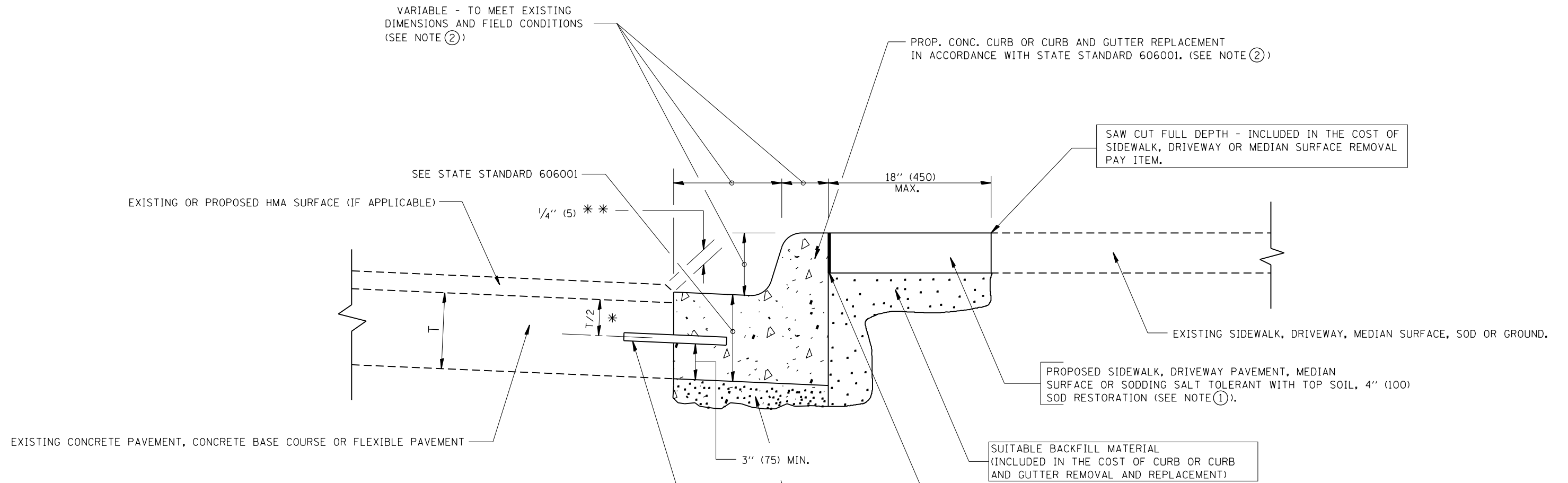
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|  |                               |                    |                             |   |  |                         |      |             |   |        |              |           |
|--|-------------------------------|--------------------|-----------------------------|---|--|-------------------------|------|-------------|---|--------|--------------|-----------|
| FILE NAME =  | USER NAME = pyrzenowski       | DESIGNED - R. SHAH | REVISED - A. ABBAS 04-27-98 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>PAVEMENT PATCHING FOR<br/>HMA SURFACED PAVEMENT</b> |                         |      | F.A.U. RTE. | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-shit-cover.dgn | PLOT SCALE = 100.0000' / 1in. | CHECKED -          | REVISED - R. BORO 01-01-07  |   |  |                         |      | 1583        | 0303-RS&N                                       | COOK   | 87           | 67        |
|  | PLOT DATE = 7/13/2015         | DATE - 10-25-94    | REVISED - R. BORO 09-04-07  |   | <b>BD400-04 (BD-22)</b>                                |                         |      |             | <b>CONTRACT NO. 60V52</b>                       |        |              |           |
|  |                               |                    | REVISED - K. ENG 10-27-08   |   | SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.     | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |        |              |           |



\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.  
 \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.  
 SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

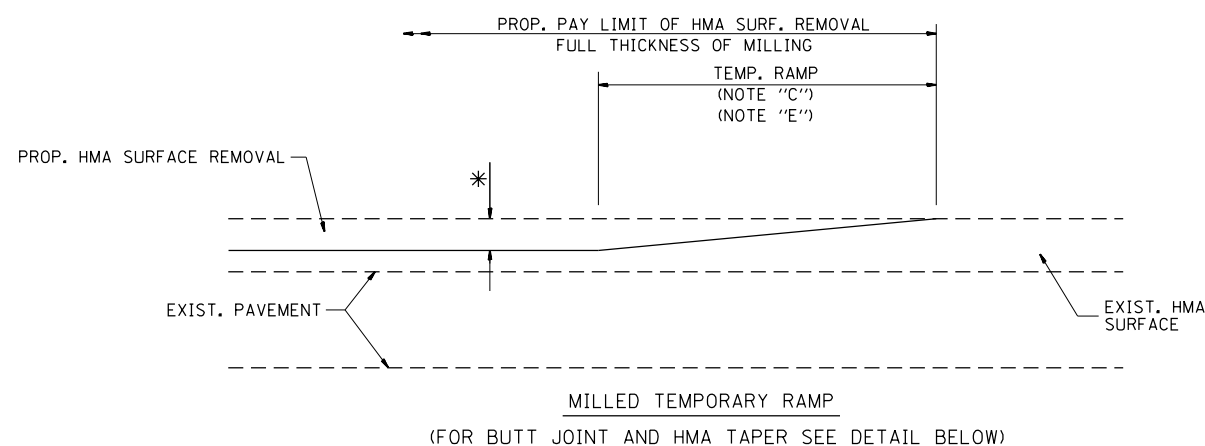
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

**BASIS OF PAYMENT:**  
 THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

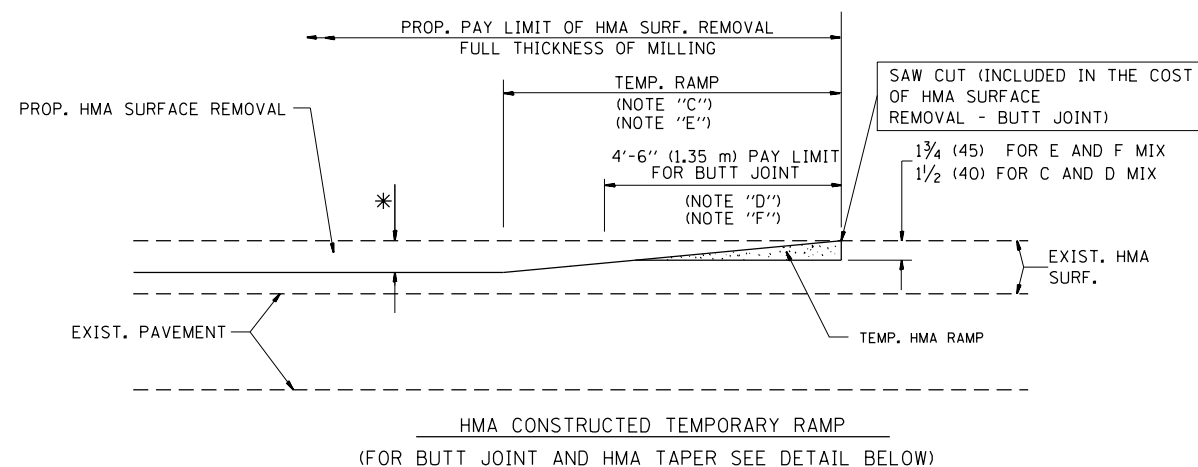
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|                                      |                           |                      |                             |   |  |                         |           |                           |              |              |  |
|--------------------------------------|---------------------------|----------------------|-----------------------------|---|--|-------------------------|-----------|---------------------------|--------------|--------------|--|
| FILE NAME =                          | USER NAME = pyrzenowskirb | DESIGNED - A. HOUSEH | REVISED - R. SHAH 10-03-96  | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>CURB OR CURB AND GUTTER<br/>REMOVAL AND REPLACEMENT</b> | F.A.U. RTE.             | SECTION   | COUNTY                    | TOTAL SHEETS | SHEET NO.    |  |
|                                      |                           |                      | REVISED - A. ABBAS 03-21-97 |   |  | 1583                    | 0303-RS&N | COOK                      | 87           | 68           |  |
|                                      |                           |                      | REVISED - M. GOMEZ 01-22-01 |   |  | <b>BD600-06 (BD-24)</b> |           | <b>CONTRACT NO. 60V52</b> |              |              |  |
|                                      |                           |                      | REVISED - R. BORO 12-15-09  |   |  | SCALE: NONE             |           | SHEET NO. 1 OF 1 SHEETS   |              | STA. TO STA. |  |
| PLOT SCALE = 1/8" = 100.0000' / 1in. |                           | CHECKED -            |                             | FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT         |  |                         |           |                           |              |              |  |
| PLOT DATE = 7/13/2015                |                           | DATE = 03-11-94      |                             |   |  |                         |           |                           |              |              |  |

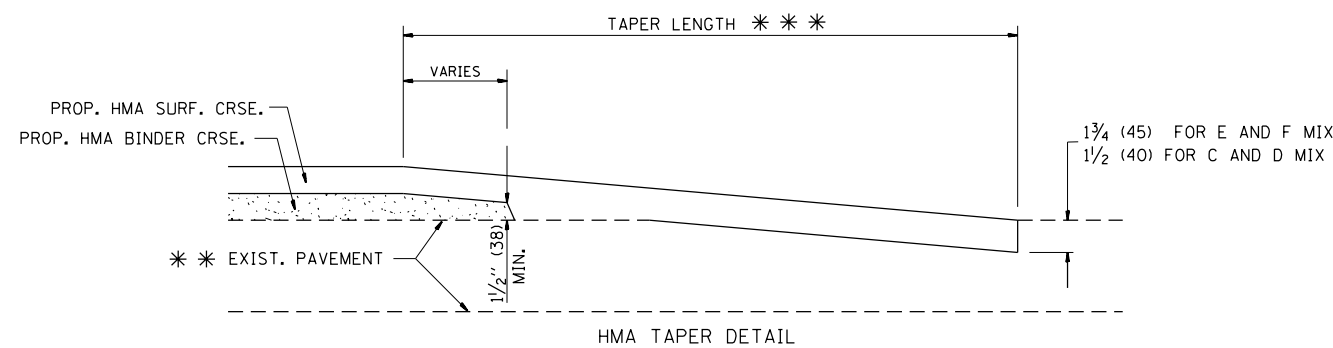
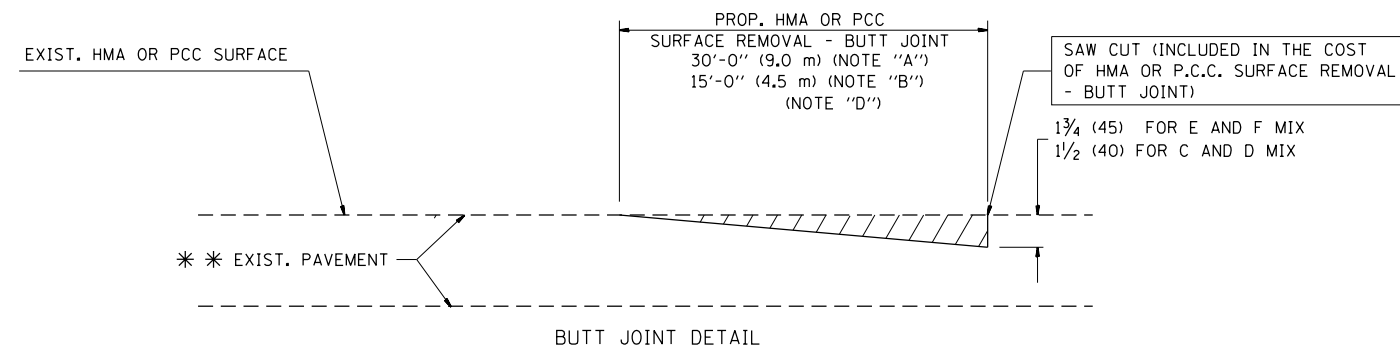


**OPTION 1**



**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

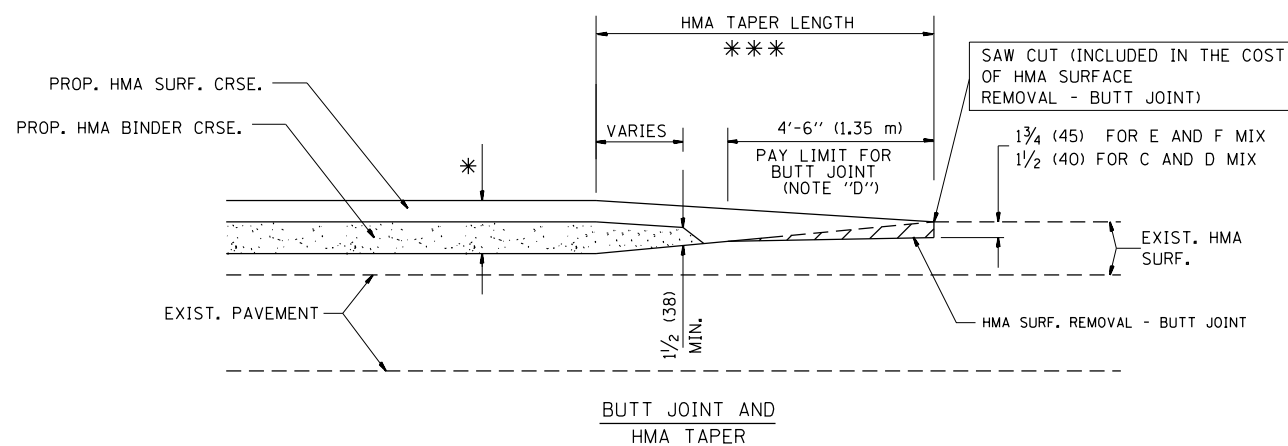
**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \* \* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

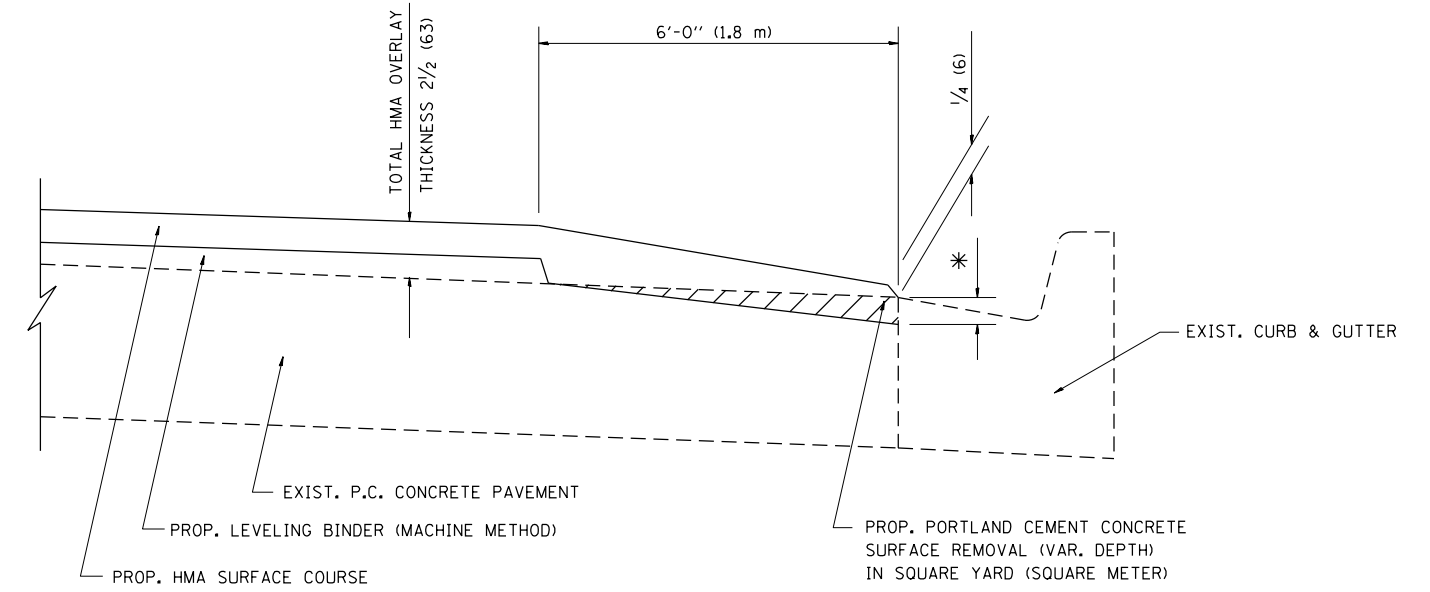
|   |                         |                       |                             |
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| FILE NAME =   | USER NAME = pyrzenowski | DESIGNED - M. DE YONG | REVISED - R. SHAH 10-25-94  |
| p:\11084EBID\INTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-shr-cover.dgn |                         | CHECKED -             | REVISED - A. ABBAS 03-21-97 |
|   |                         | DATE - 06-13-90       | REVISED - M. GOMEZ 04-06-01 |
|   |                         |                       | REVISED - R. BORO 01-01-07  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

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

|   |           |        |                    |           |
|---|-----------|--------|--------------------|-----------|
| F.A.U. RTE.                                     | SECTION   | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 1583  | 0303-RS&N | COOK   | 87                 | 69        |
| BD400-05 BD32                                   |           |        | CONTRACT NO. 60V52 |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |                    |           |



HMA TAPER AT  
EDGE OF P.C.C PAVEMENT

| HMA SURFACE | THICKNESS  | LEVELING BINDER THICKNESS | * MILLING AT GUTTER FLAG |
|-------------|------------|---------------------------|--------------------------|
| C OR D      | 1 1/2 (38) | 1 (25)                    | 1/4 (33)                 |
| F           | 1 3/4 (44) | 3/4 (19)                  | 1/2 (38)                 |

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

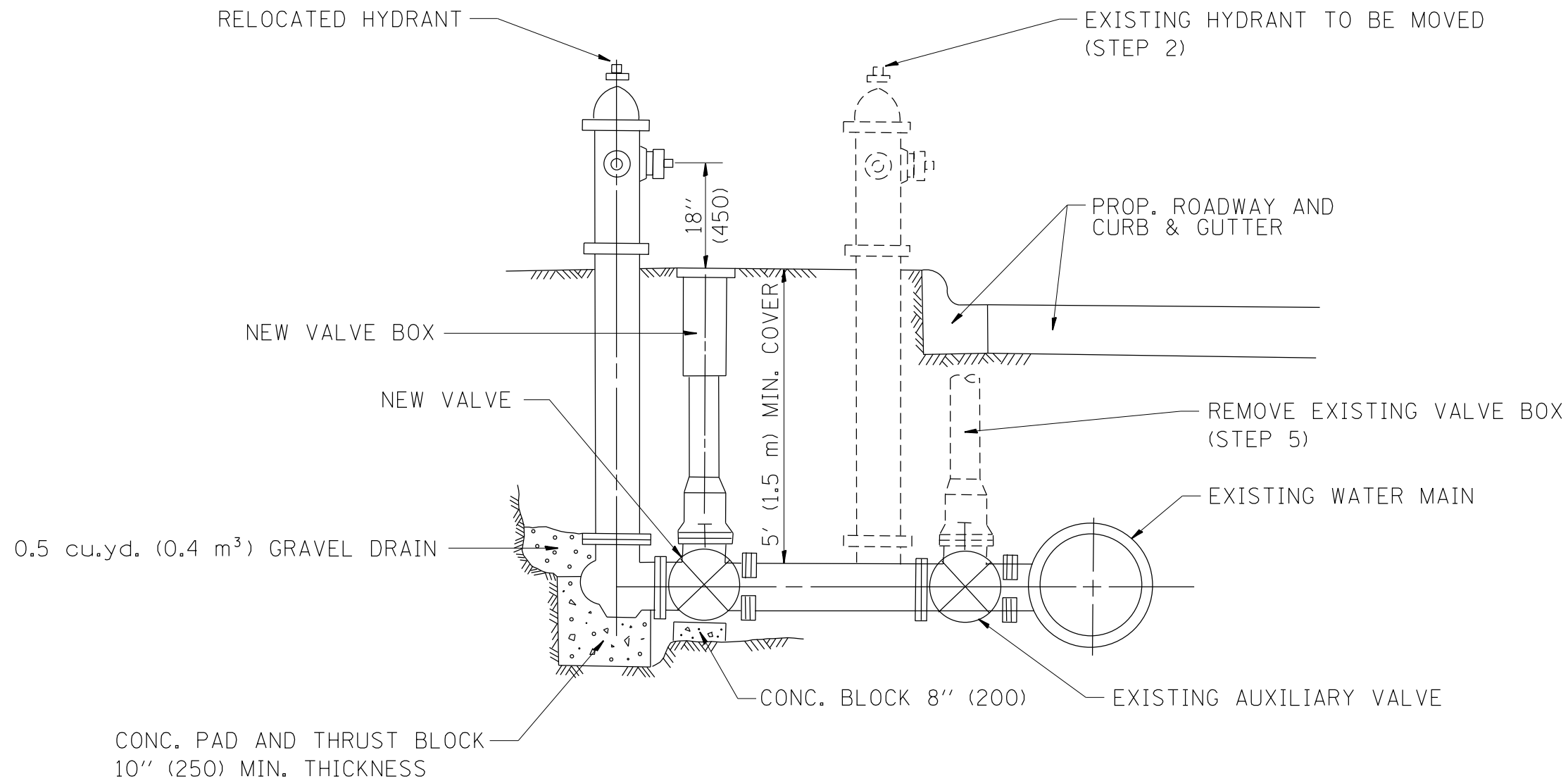
|   |                         |                    |                             |
|---|-------------------------|--------------------|-----------------------------|
| FILE NAME =   | USER NAME = pyrzenowski | DESIGNED - R. SHAH | REVISED - R. SHAH 10-25-94  |
| p:\11\084EBIDINTEG.illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\PI2511\Drawings\Design\1125112-shit-cover.dgn |                         | DRAWN - A. ABBAS   | REVISED - A. ABBAS 05-05-99 |
| PLOT SCALE = 100.0000' / 1in.   |                         | CHECKED - A. ABBAS | REVISED - E. GOMEZ 12-21-00 |
| PLOT DATE = 7/13/2015   |                         | DATE - 09-10-94    | REVISED - R. BORO 01-01-07  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|  |                         |      |         |
|--|-------------------------|------|---------|
| HMA TAPER AT<br>EDGE OF P.C.C PAVEMENT |                         |      |         |
| SCALE: NONE                            | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

|   |           |                    |              |           |
|---|-----------|--------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION   | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1583  | 0303-RS&N | COOK               | 87           | 70        |
| BD400-06 (BD33)                                 |           | CONTRACT NO. 60V52 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                    |              |           |





SEQUENCE OF CONSTRUCTION:

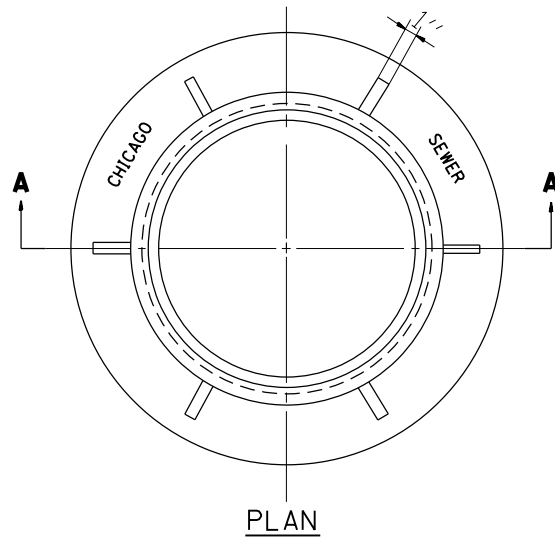
1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

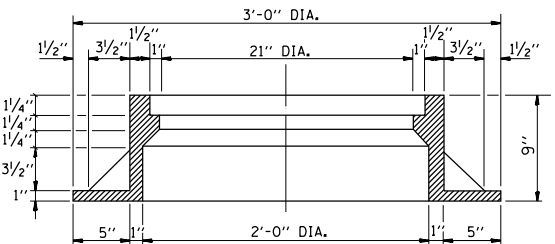
FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|  |                         |            |                            |   |                                 |                         |                           |           |   |        |              |           |
|--|-------------------------|------------|----------------------------|---|---------------------------------|-------------------------|---------------------------|-----------|---|--------|--------------|-----------|
| FILE NAME =  | USER NAME = pyrzenowski | DESIGNED - | REVISED - R. SHAH 09-09-94 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>FIRE HYDRANT TO BE MOVED</b> |                         |                           | F.A. RTE. | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| p:\11\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-shr-cover.dgn |                         | DRAWN -    | REVISED - R. SHAH 10-25-94 |   | 1583                            | 0303-RS&N               | COOK                      | 87        | 70A   |        |              |           |
| PLOT SCALE = 100.0002' / 1in.  | CHECKED -               | REVISED -  |                            |   | <b>BD-36</b>                    |                         | <b>CONTRACT NO. 60V52</b> |           |   |        |              |           |
| PLOT DATE = 6/29/2015  | DATE -                  | REVISED -  |                            |   | SCALE: NONE                     | SHEET NO. 1 OF 1 SHEETS | STA.                      | TO STA.   | FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |        |              |           |



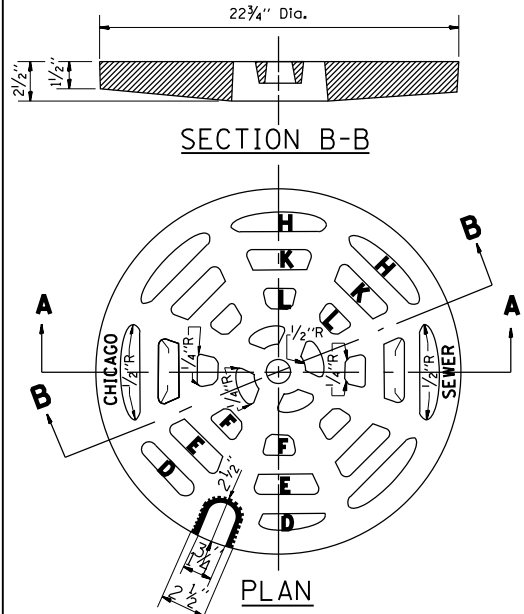
PLAN



SECTION A-A

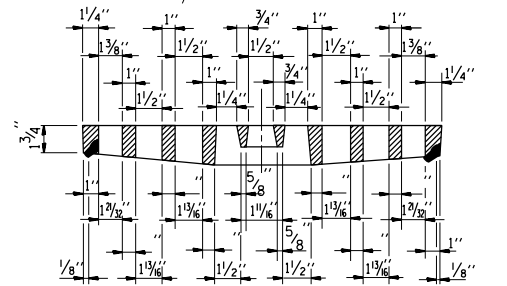
NOTE: METAL PLATES MUST BE FURNISHED FOR PERFORATED LIDS ON MANHOLES

**CHICAGO STANDARD MANHOLE FRAME**  
SCALE: 1/2"=1'-0"  
MATERIAL: CAST IRON



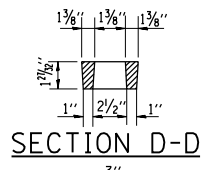
SECTION B-B

PLAN



SECTION A-A

**PERFORATED LID FOR CATCH BASINS & MANHOLES**  
SCALE: 2"=1'-0"  
MATERIAL: CAST IRON



SECTION D-D

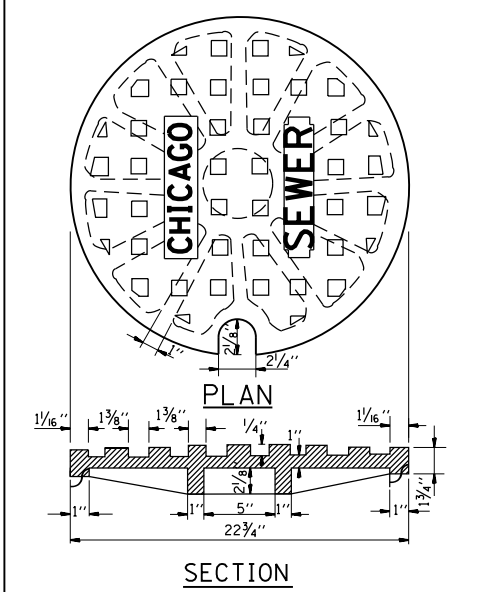
SECTION E-E

SECTION F-F

SECTION H-H

SECTION K-K

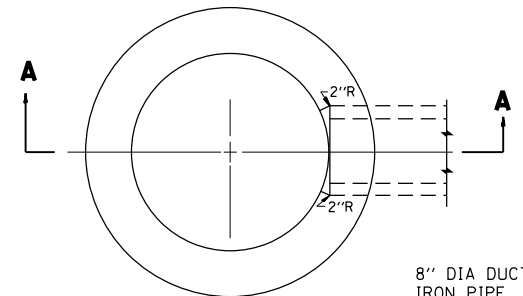
SECTION L-L



PLAN

SECTION

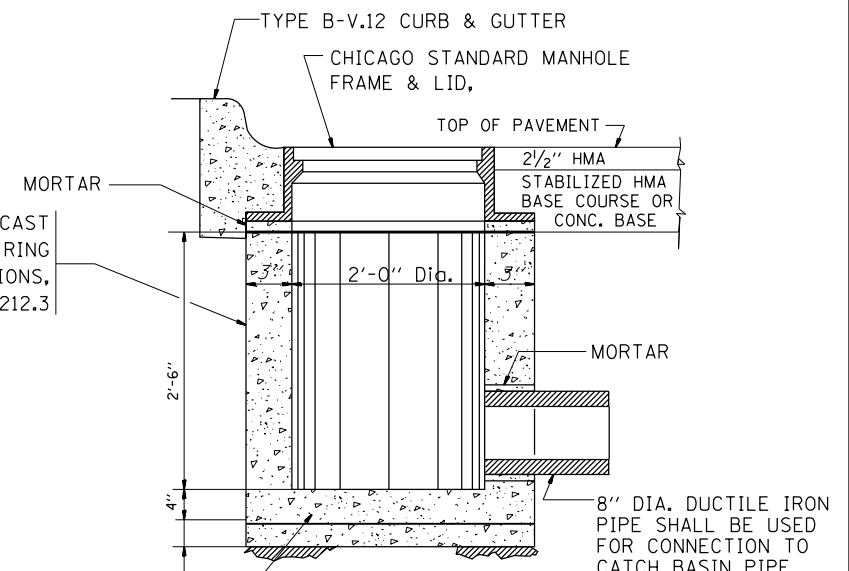
**SOLID LID FOR MANHOLES**  
SCALE: NONE  
MATERIAL: CAST IRON



PLAN

( FRAME & LID NOT SHOWN )

8" DIA DUCTILE IRON PIPE, PART OF ITEM 7G

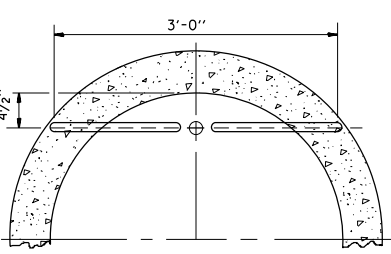


SECTION A-A

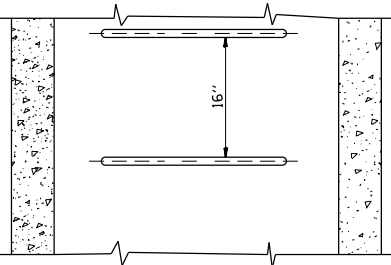
**STANDARD INLETS**  
SCALE 1"= 1'-0"  
ITEM 12

THIS INLET DETAIL IS SOMETIMES REFERRED TO AS "CHICAGO STANDARD INLET, TYPE A"

NOTE: INLETS SHALL NOT BE CONSTRUCTED UNLESS IT IS IMPOSSIBLE TO CONSTRUCT A CATCH BASIN. THE CONTRACTOR SHALL HAVE THE DEPARTMENT OF SEWERS APPROVAL BEFORE CONSTRUCTING INLETS.

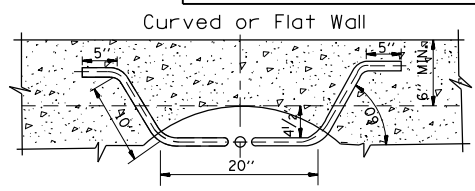


PLAN

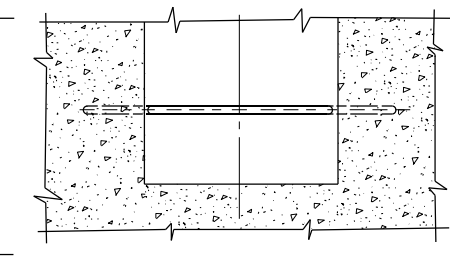


ELEVATION

TYPE X  
SCALE: 1"=1'-0"

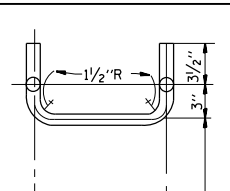


PLAN

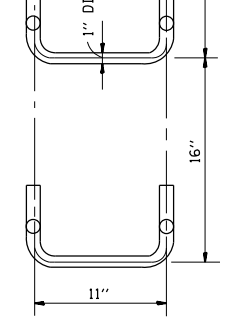


ELEVATION

TYPE Y  
SCALE: 1"=1'-0"



PLAN



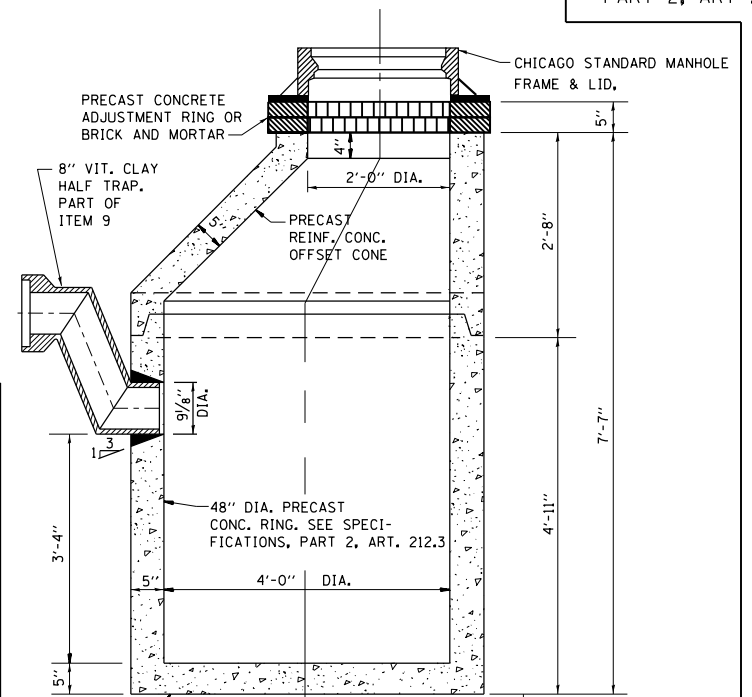
ELEVATION

SPACING

HANDHOLD-TYPE Z RUNG  
Scale: 1/2"=1'-0"

**STANDARD LADDER RUNGS**

ALL LADDER RUNGS SHALL BE ALUMINUM OR GALVANIZED WROUGHT IRON AS SPECIFIED IN THE SPECIFICATIONS, PART 2, ARTICLE 214.2. RUNGS SHALL BE 1" DIAMETER OR OF A SHAPE HAVING AN EQUIVALENT CROSS-SECTIONAL AREA.



PRECAST

NOTE: 6" MINIMUM GRANULAR EMBEDMENT UNDER ALL CATCH BASINS

**STANDARD CATCH BASINS**

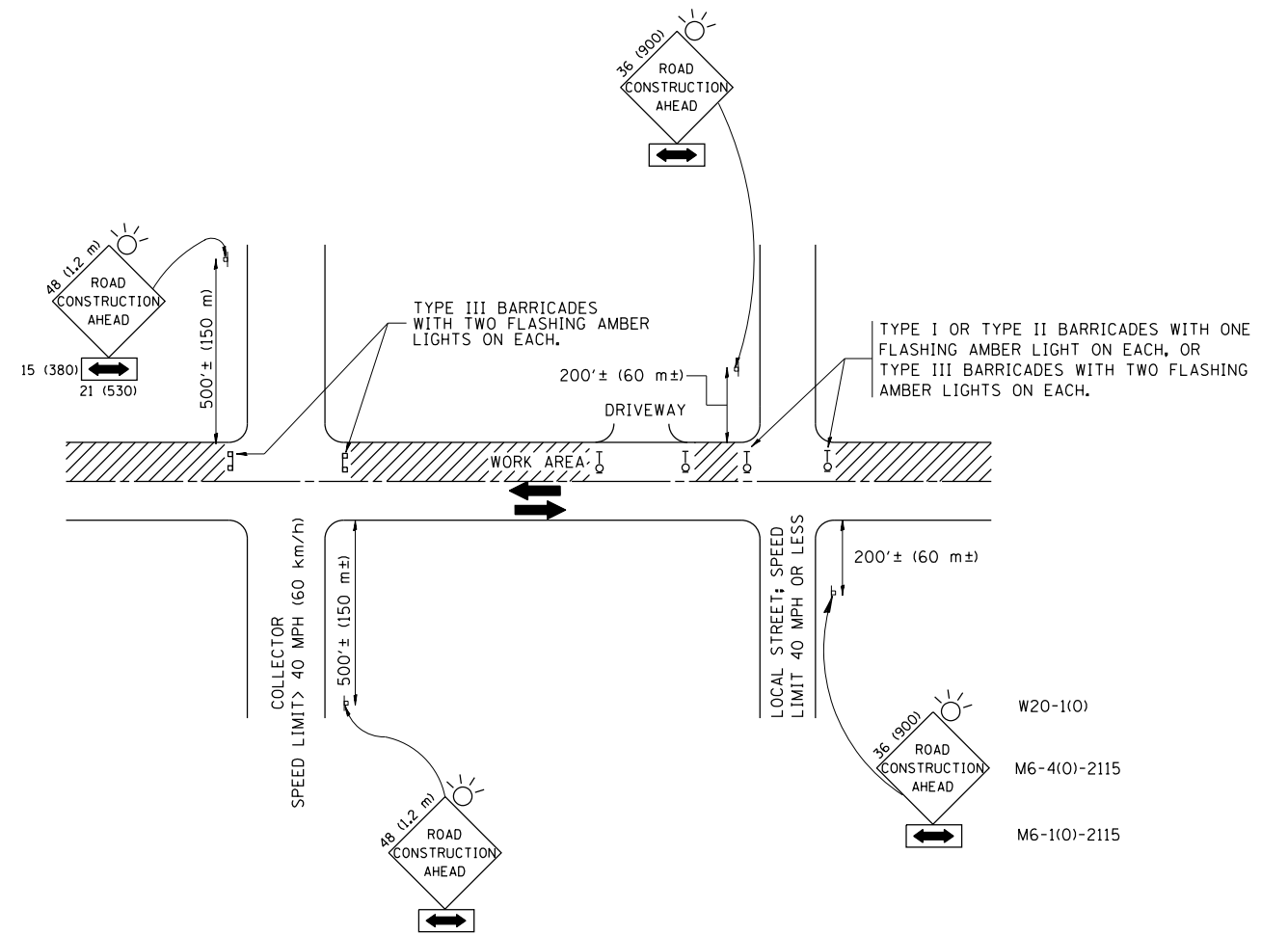
SCALE: 3/4"= 1'-0"  
ITEM 9

|  |                           |                     |           |
|--|---------------------------|---------------------|-----------|
| FILE NAME =  | USER NAME = pyrzenowskirb | DESIGNED - M. GOMEZ | REVISED - |
| pw:\11084EBIDINTEG.111nois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI25111\Drawings\Design\PI25112-shit-cover.dgn |                           | CHECKED -           | REVISED - |
| PLOT SCALE = 100.0002' / in.   |                           | DATE - 01-25-01     | REVISED - |
| PLOT DATE = 6/29/2015  |                           |                     |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|  |                         |      |         |
|--|-------------------------|------|---------|
| CITY OF CHICAGO                        |                         |      |         |
| CATCH BASIN, INLET AND MANHOLE DETAILS |                         |      |         |
| SCALE: NONE                            | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

|   |           |                    |              |           |
|---|-----------|--------------------|--------------|-----------|
| F.A. R.E.                                       | SECTION   | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1583  | 0303-RS&N | COOK               | 87           | 70B       |
| BD600-13 (BD47)                                 |           | CONTRACT NO. 60V52 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                    |              |           |



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

### NOTES:

#### A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. 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:

a) 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:

a) 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.

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.

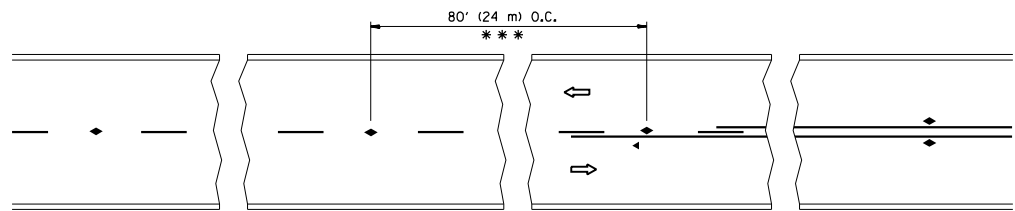
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|---|-------------------------|----------------|-------------------------------|
| FILE NAME =   | USER NAME = pyrzenowski | DESIGNED - LHA | REVISED - J. OBERLE 10-18-95  |
| p:\11\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\P125112\Drawings\Design\P125112-shit-cover.dgn |                         |                | REVISED - A. HOUSEH 03-06-96  |
|   |                         | CHECKED -      | REVISED - A. HOUSEH 10-15-96  |
|   |                         | DATE - 06-89   | REVISED - T. RAMMACH 01-06-00 |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

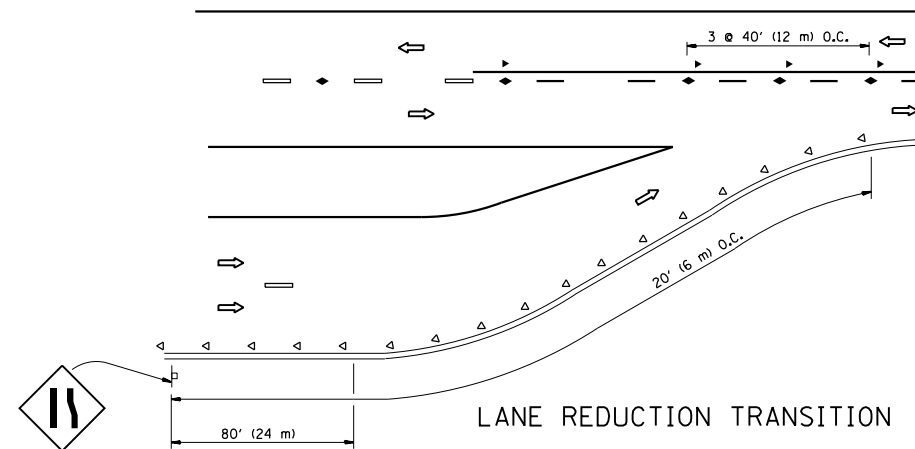
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A.U. RTE.                                     | SECTION   | COUNTY             | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------------------|--------------|-----------|
| 1583  | 0303-RS&N | COOK               | 87           | 71        |
| TC-10   |           | CONTRACT NO. 60V52 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                    |              |           |

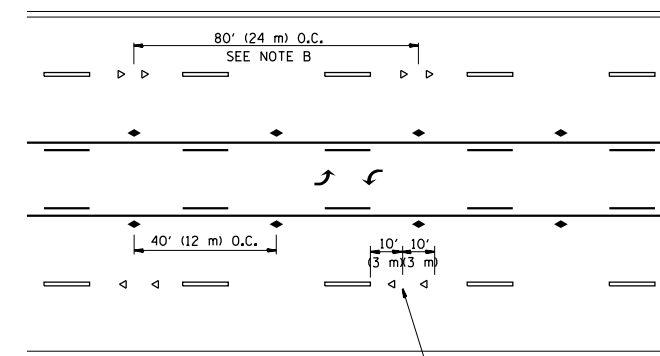


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

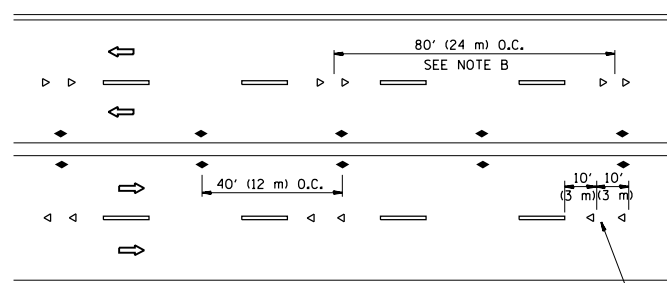
TWO-LANE/TWO-WAY



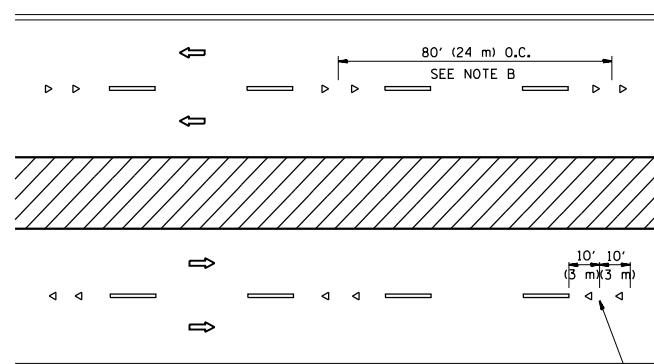
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

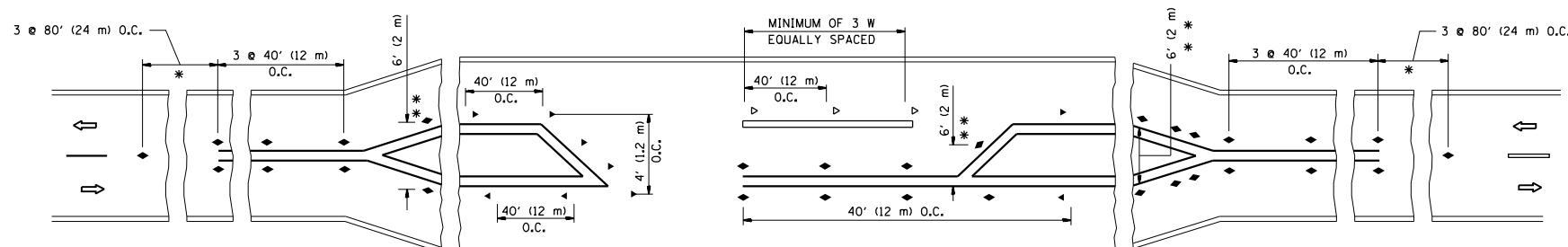
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

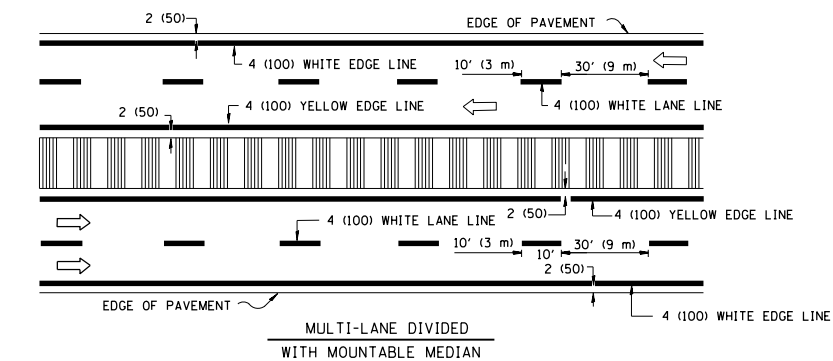
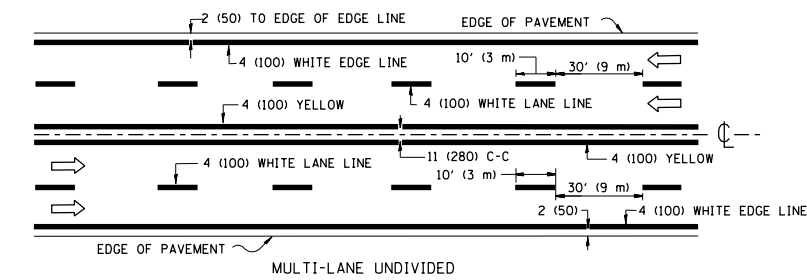
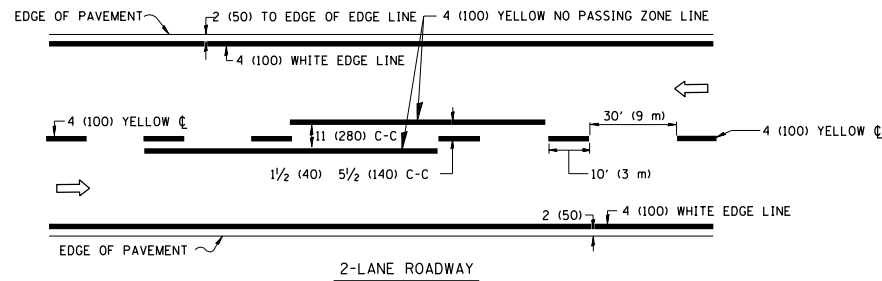
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|  |                           | DATE -     | REVISED - T. RAMMACHER 01-06-00 |
|  |                           |            | REVISED - C. JUCIUS 09-09-09    |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS  
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

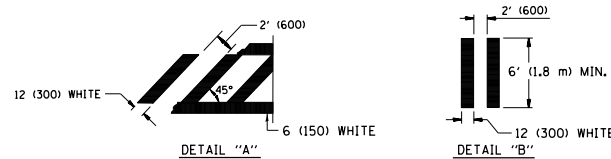
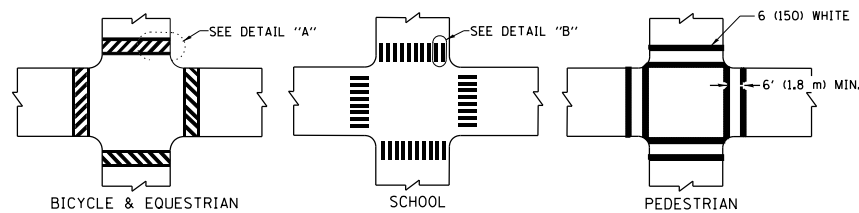
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

|   |           |                    |              |           |
|---|-----------|--------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION   | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1583  | 0303-RS&N | COOK               | 87           | 72        |
| TC-11   |           | CONTRACT NO. 60V52 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                    |              |           |

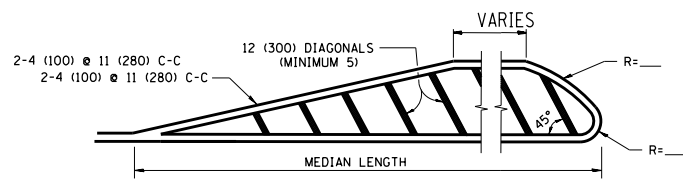
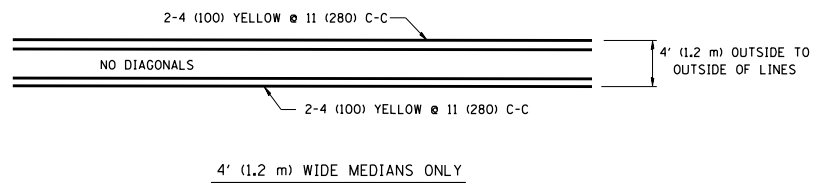


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

### TYPICAL LANE AND EDGE LINE MARKING

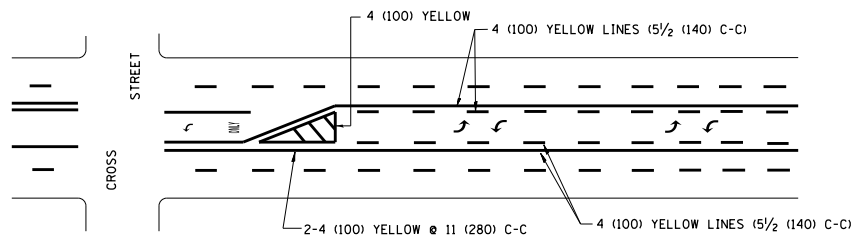


### TYPICAL CROSSWALK MARKING

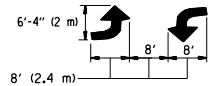


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

### MEDIANS OVER 4' (1.2 m) WIDE

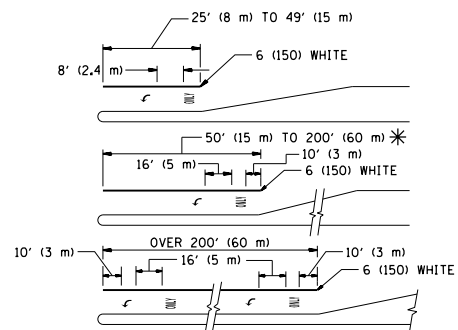


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



### MEDIAN WITH TWO-WAY LEFT TURN LANE

### TYPICAL PAINTED MEDIAN MARKING

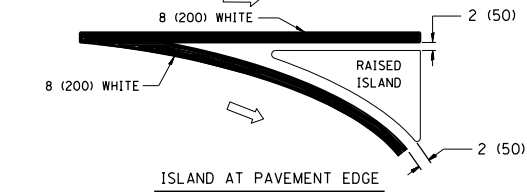
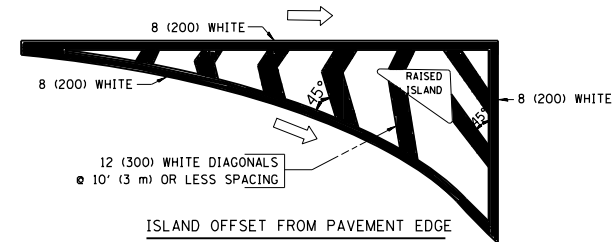


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* 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  | 4 (100)  | SOLID                        | YELLOW  | 5/2 (140) C-C FROM SKIP-DASH CENTERLINE  |
| NO PASSING ZONE LINES: FOR BOTH DIRECTIONS  | 2 @ 4 (100)  | SOLID                        | YELLOW  | 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN   |
| LANE LINES  | 4 (100)<br>5 (125) ON FREEWAYS   | SKIP-DASH<br>SKIP-DASH       | WHITE<br>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<br>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<br>8' (2.4m) LEFT ARROW   | SKIP-DASH AND SOLID IN PAIRS | YELLOW<br>WHITE   | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE. SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL               |
| CROSSWALK LINES (PEDESTRIAN)<br>A. DIAGONALS (BIKE & EQUESTRIAN)<br>B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150)<br>12 (300) @ 45°<br>12 (300) @ 90°  | SOLID<br>SOLID<br>SOLID      | WHITE<br>WHITE<br>WHITE                                 | NOT LESS THAN 6' (1.8 m) APART<br>2' (600) APART<br>2' (600) APART<br>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°<br>NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID                        | YELLOW;<br>TWO WAY TRAFFIC<br>WHITE;<br>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   | DIAGONALS:<br>15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h))<br>20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)<br>30' (9 m) C-C (OVER 45MPH (70 km/h))              |
| RAILROAD CROSSING   | 24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"               | SOLID                        | WHITE   | SEE STATE STANDARD 780001<br>AREA OF:<br>"R": 3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH<br>"X": 54.0 SQ. FT. (5.0 m <sup>2</sup> ) EACH                              |
| SHOULDER DIAGONALS  | 12 (300) @ 45°   | SOLID                        | WHITE - RIGHT<br>YELLOW - LEFT                          | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))<br>75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h))<br>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.

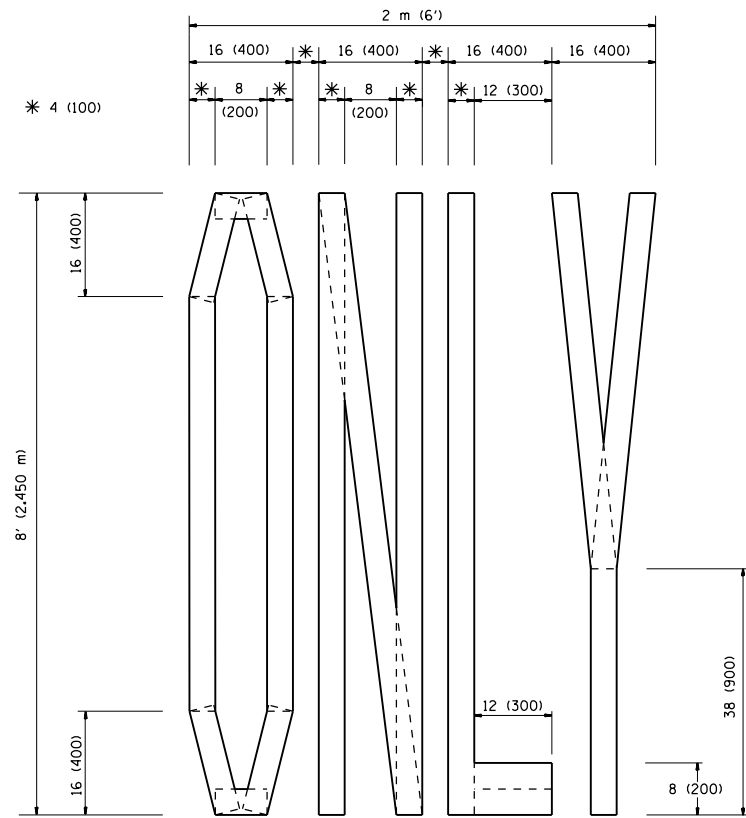
All dimensions are in inches (millimeters) unless otherwise shown.

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| PLOT SCALE = 100.0000' / in.   |                         | DATE - 03-19-90  | REVISED -                       |
| PLOT DATE = 7/13/2015  |                         |                  |                                 |

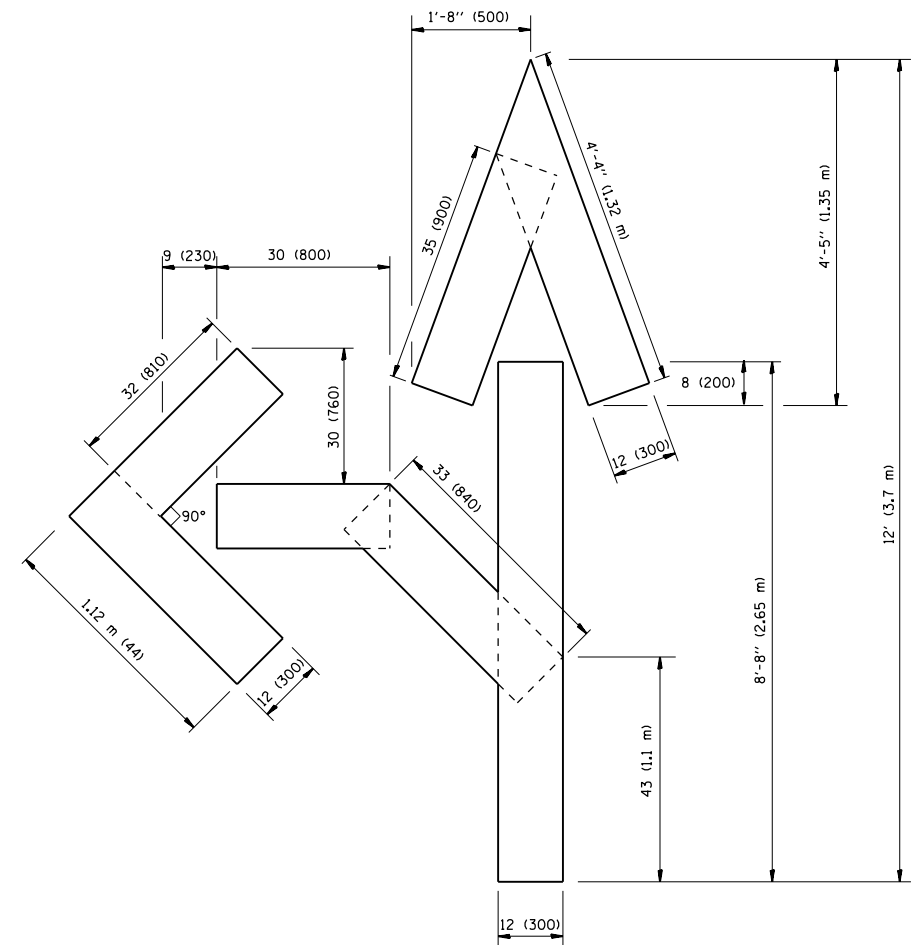
### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

|                           |                         |      |         |
|---------------------------|-------------------------|------|---------|
| DISTRICT ONE              |                         |      |         |
| TYPICAL PAVEMENT MARKINGS |                         |      |         |
| SCALE: NONE               | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

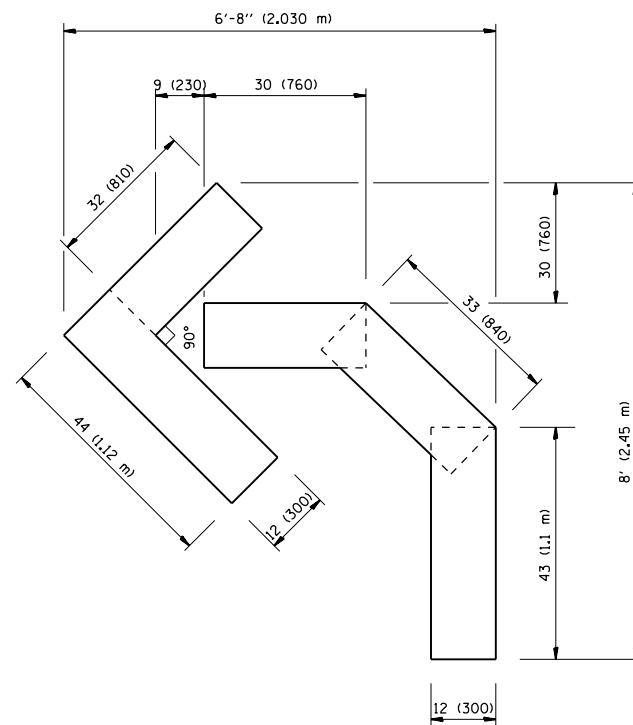
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|---|-----------|--------------------|--------------|-----------|
| F.A.U. R.T.E.                                   | SECTION   | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1583  | 0303-RS&N | COOK               | 87           | 73        |
| TC-13   |           | CONTRACT NO. 60V52 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                    |              |           |



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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

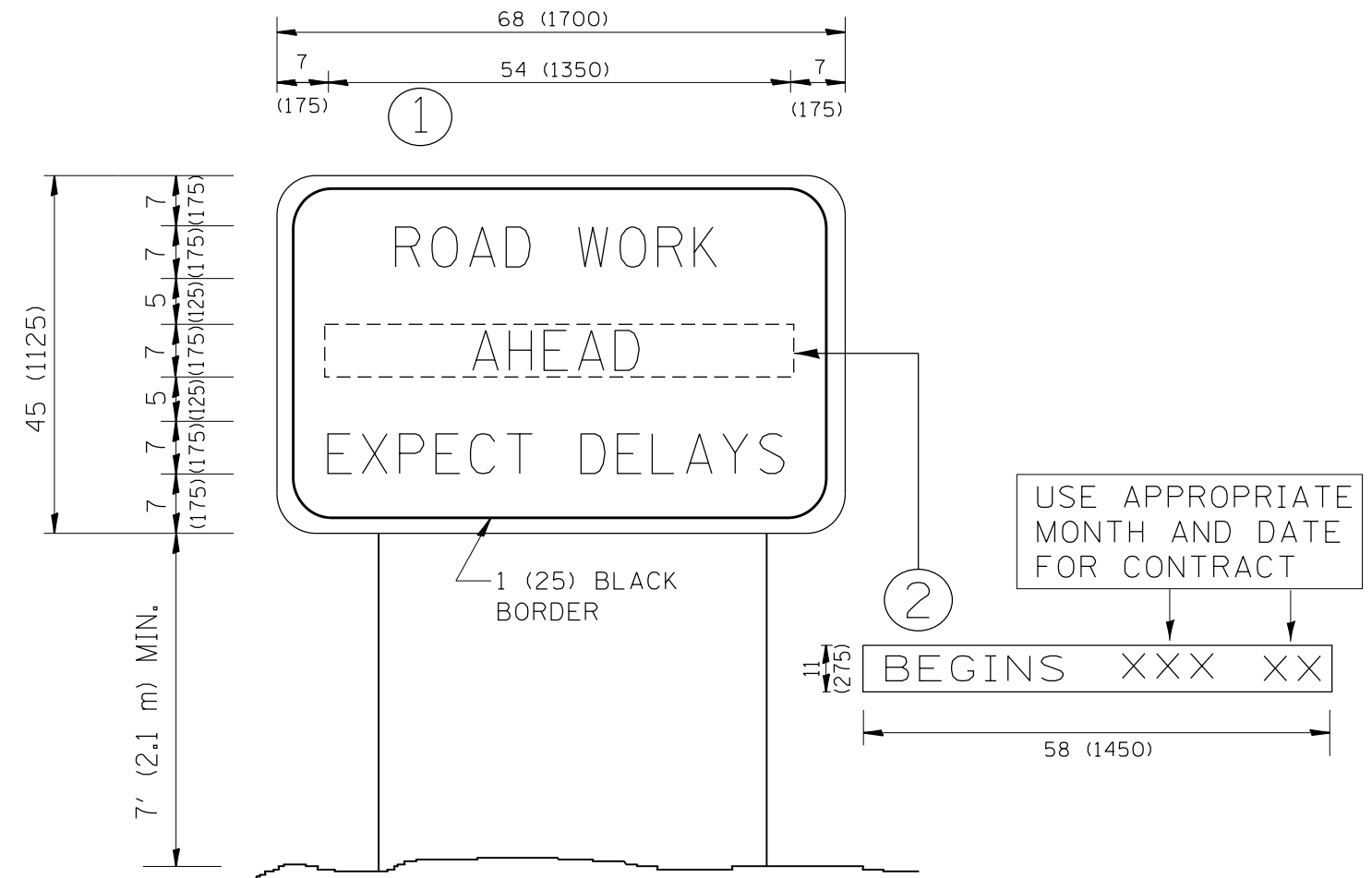
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|   |                         | CHECKED -       | REVISED -T. RAMMACHER 03-02-98 |
|   |                         | DATE - 09-18-94 | REVISED -E. GOMEZ 08-28-00     |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

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

| F.A.U. RTE.                                     | SECTION   | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---|-----------|--------|--------------------|-----------|
| 1583  | 0303-RS&N | COOK   | 87                 | 74        |
| TC-16   |           |        | CONTRACT NO. 60V52 |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |                    |           |

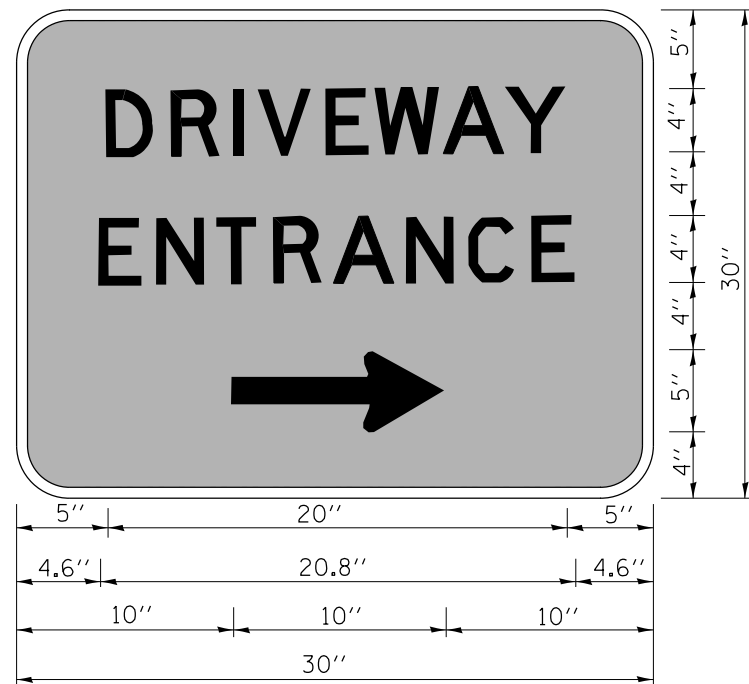


**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|   |                            |                                 |                            |   |   |                           |         |              |              |   |
|---|----------------------------|---------------------------------|----------------------------|---|---|---------------------------|---------|--------------|--------------|---|
| FILE NAME =   | USER NAME = pyrozenowskirb | DESIGNED -                      | REVISED - R. MIRS 09-15-97 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>ARTERIAL ROAD<br/>INFORMATION SIGN</b> | F.A.U. RTE.               | SECTION | COUNTY       | TOTAL SHEETS | SHEET NO.   |
| p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-shit-cover.dgn | DRAWN -                    | REVISED - R. MIRS 12-11-97      | 1583                       |   |   | 0303-RS&N                 | COOK    | 87           | 75           |   |
| PLOT SCALE = 100.0000' / 1in.   | CHECKED -                  | REVISED - T. RAMMACHER 02-02-99 | <b>TC-22</b>               |   |   | <b>CONTRACT NO. 60V52</b> |         |              |              |   |
| PLOT DATE = 7/13/2015   | DATE -                     | REVISED - C. JUCIUS 01-31-07    | SCALE: NONE                |   |   | SHEET NO. 1 OF 1 SHEETS   |         | STA. TO STA. |              | FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE  
 PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN)  
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY  
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE  
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

|  |                               |            |                              |
|--|-------------------------------|------------|------------------------------|
| FILE NAME =  | USER NAME = pyrzenowski       | DESIGNED - | REVISED - C. JUCIUS 02-15-07 |
| p:\11084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\PI25112\Drawings\Design\PI25112-shit-cover.dgn |                               | DRAWN -    | REVISED -                    |
|  | PLOT SCALE = 100.0000' / 1in. | CHECKED -  | REVISED -                    |
|  | PLOT DATE = 7/13/2015         | DATE -     | REVISED -                    |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

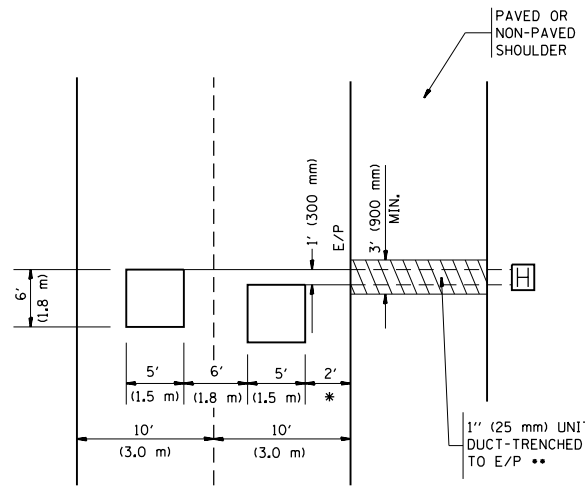
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A.U. RTE.                                     | SECTION   | COUNTY | TOTAL SHEETS              | SHEET NO. |
|---|-----------|--------|---------------------------|-----------|
| 1583  | 0303-RS&N | COOK   | 87                        | 76        |
| <b>TC-26</b>                                    |           |        | <b>CONTRACT NO. 60V52</b> |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |                           |           |



LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



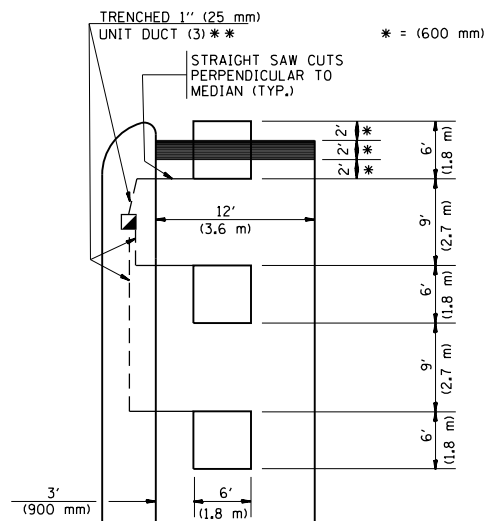
\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

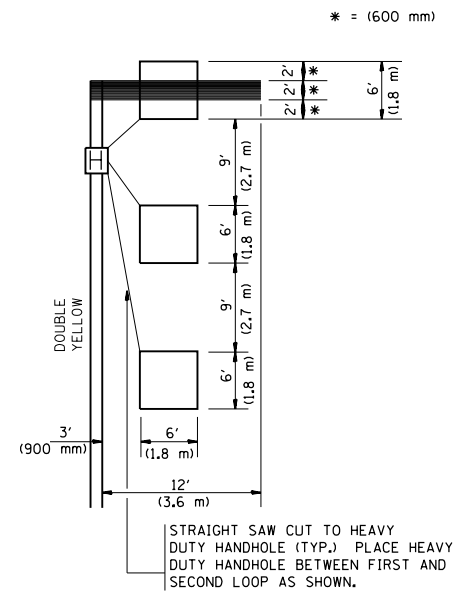


\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

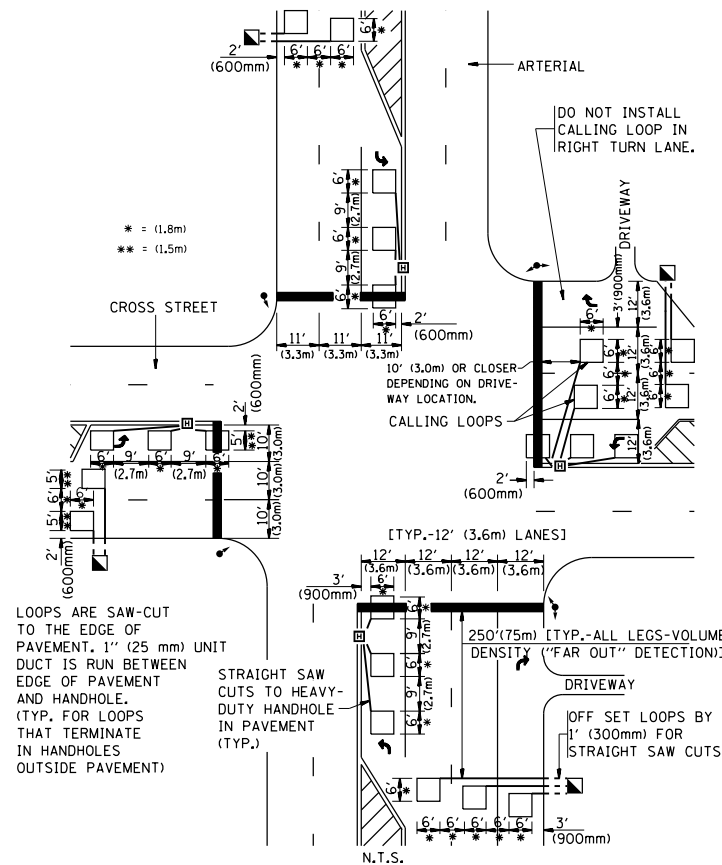
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

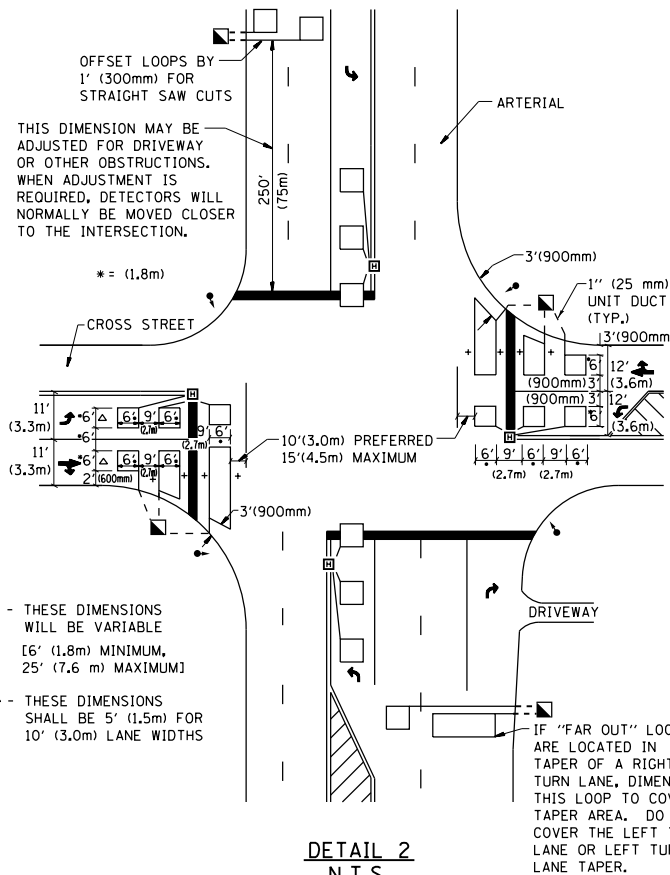
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1  
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2  
N.T.S.

|  |                         |            |           |
|--|-------------------------|------------|-----------|
| FILE NAME =  | USER NAME = pyznowskirb | DESIGNED - | REVISED - |
| p:\11\084EBID\INTEG\11inois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI2511\Design\PI25112-sht-cover.dgn |                         | DRAWN -    | REVISED - |
| PLOT SCALE = 100.0000' / in.   | CHECKED - R.K.F.        | REVISED -  | REVISED - |
| PLOT DATE = 7/13/2015  | DATE -                  | REVISED -  | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

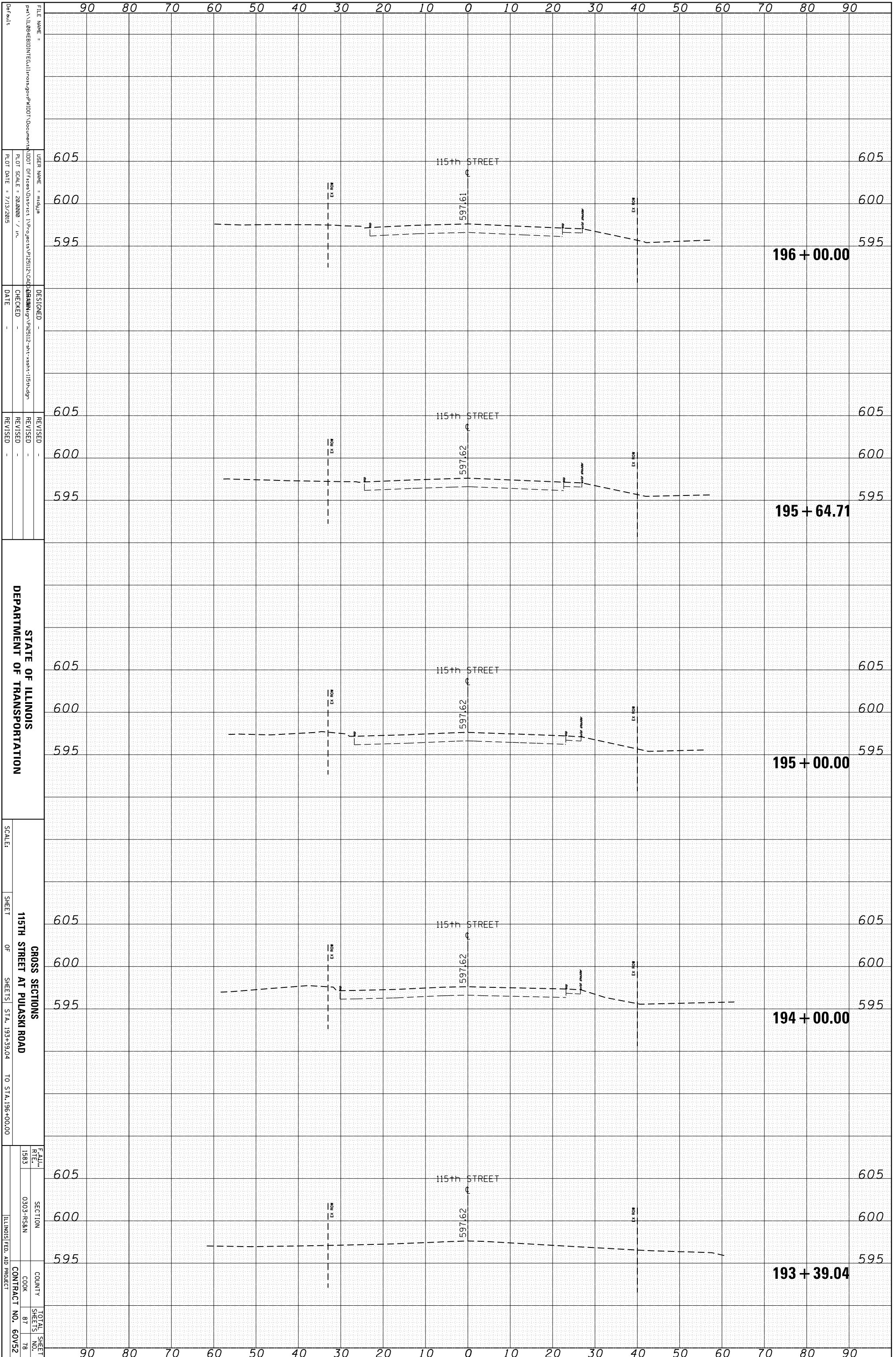
DISTRICT 1 - DETECTOR LOOP INSTALLATION  
DETAILS FOR ROADWAY RESURFACING

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

|   |           |                    |              |           |
|---|-----------|--------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION   | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1583  | 0303-RS&N | COOK               | 87           | 77        |
| TS-07   |           | CONTRACT NO. 60V52 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |                    |              |           |

|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
|                 | AREAS CHECKED |    |      |

|              |               |    |      |
|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
|              | AREAS CHECKED |    |      |



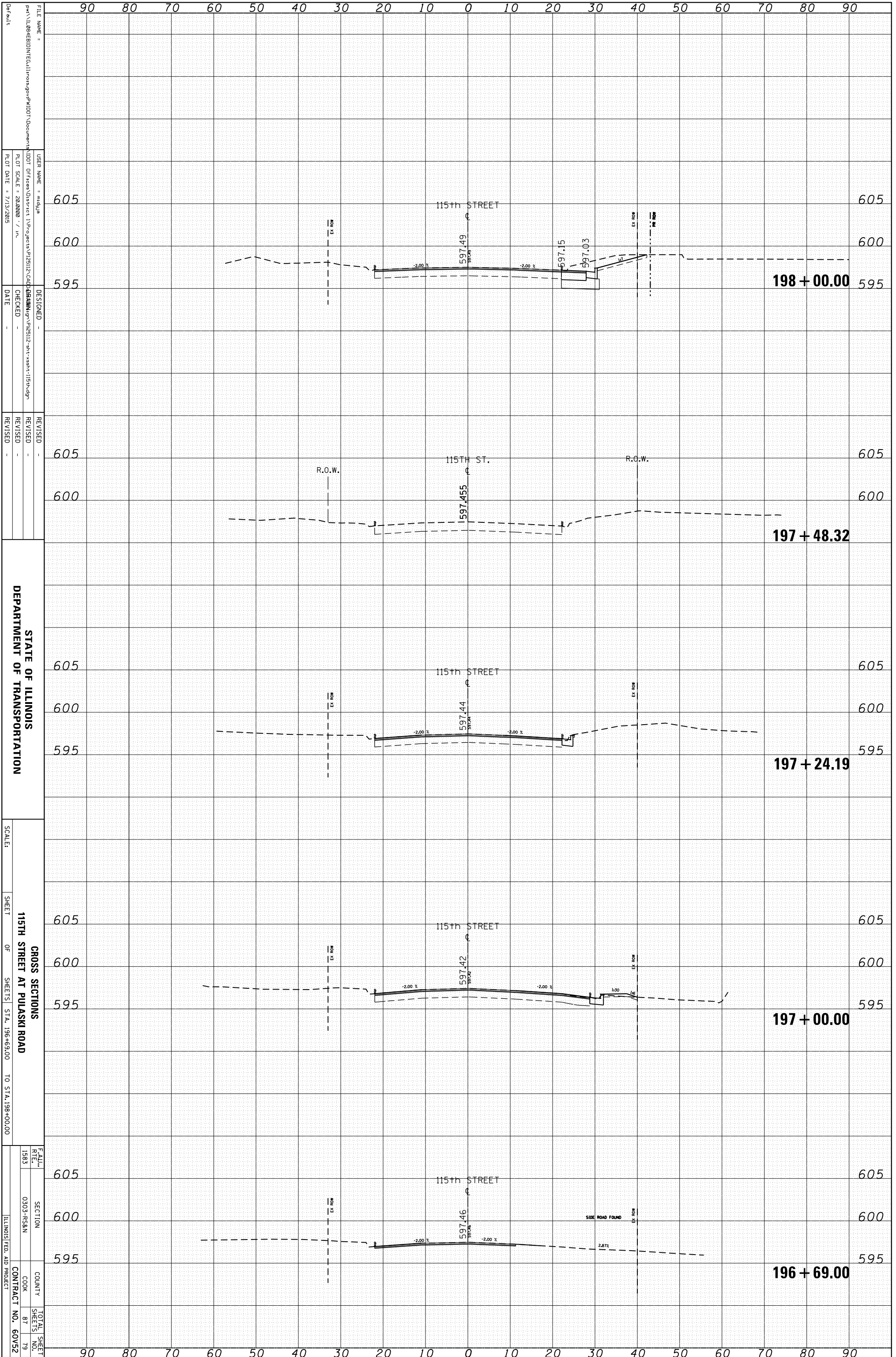
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GROSS SECTIONS  
115TH STREET AT PULASKI ROAD  
SHEET OF SHEETS STA. 193+39.04 TO STA. 196+00.00

|                             |                   |                           |              |
|-----------------------------|-------------------|---------------------------|--------------|
| FILE NAME =                 | USER NAME = mdjja | DESIGNED =                | REVISION     |
| FILE NAME =                 | OFFICE =          | CHECKED =                 | REVISION     |
| PLLOT SCALE = 28,0000 / in. | DATE = 7/13/2015  | REVISION                  | REVISION     |
| FILE NAME =                 | SECTION           | COUNTY                    | TOTAL SHEETS |
| 1583                        | 0303-NS&N         | COOK                      | 87           |
|                             |                   | CONTRACT NO.              | 60V52        |
|                             |                   | ILLINOIS FED. AID PROJECT |              |

|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
|                 | AREAS CHECKED |    |      |

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|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
|              | AREAS CHECKED |    |      |



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

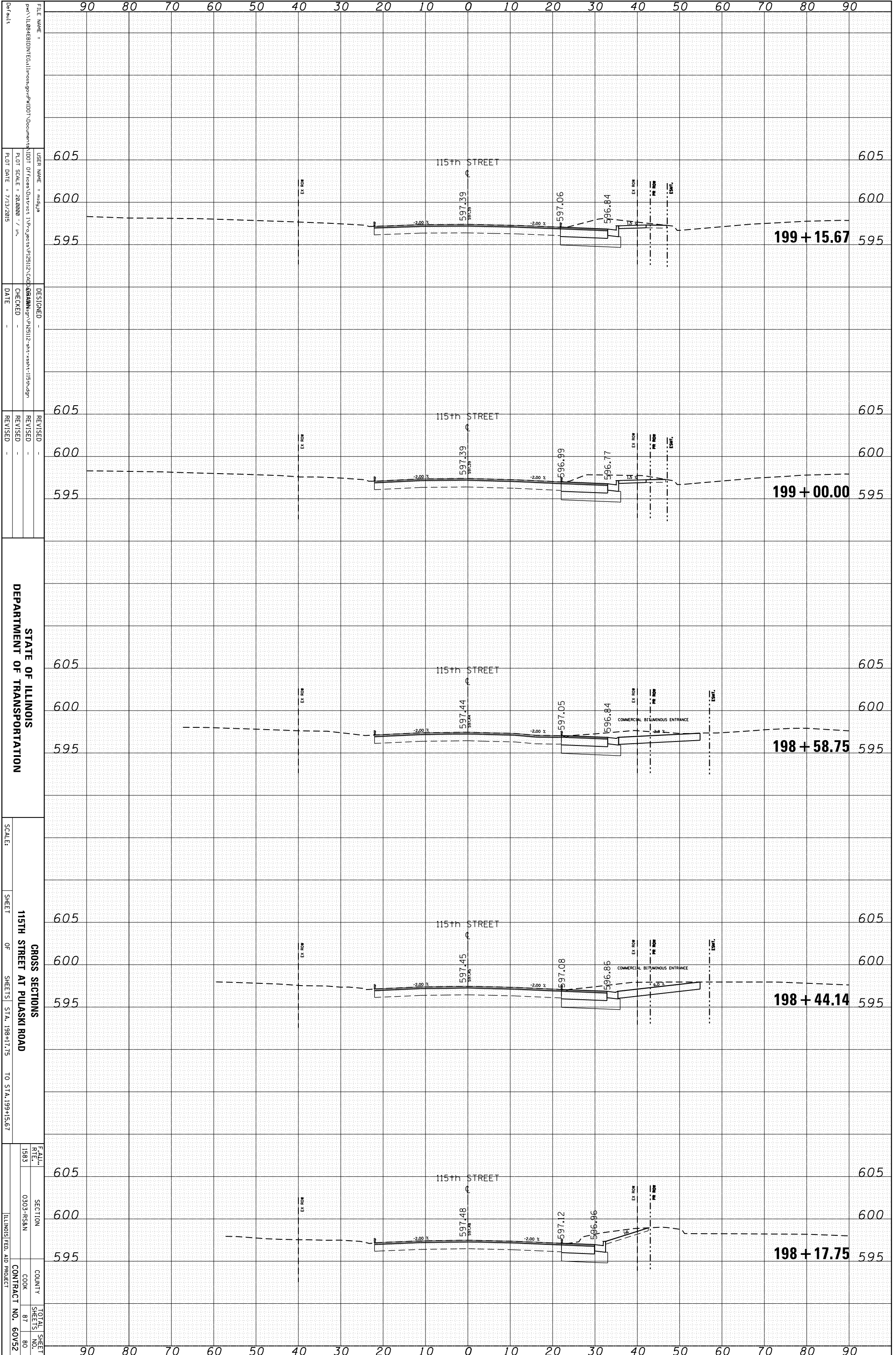
SCALE:  
SHEET OF SHEETS STA. 196+69.00 TO STA. 198+00.00

CROSS SECTIONS  
115TH STREET AT PULASKI ROAD

|           |           |        |                           |
|-----------|-----------|--------|---------------------------|
| FILE NAME | SECTION   | COUNTY | TOTAL SHEETS              |
| 1583      | 0303-NS&N | COOK   | 87                        |
|           |           |        | 79                        |
|           |           |        | CONTRACT NO. 60V52        |
|           |           |        | ILLINOIS FED. AID PROJECT |

|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
|                 | AREAS CHECKED |    |      |

|              |               |    |      |
|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
|              | AREAS CHECKED |    |      |



FILE NAME =  
 USER NAME = mdyja  
 PLOT SCALE = 28.0000 / in.  
 PLOT DATE = 7/13/2015

DESIGNED -  
 CHECKED -  
 DATE -

REVISOR -  
 REVISION -  
 REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE:  
 SHEET OF SHEETS STA. 198+17.75 TO STA. 199+15.67

CROSS SECTIONS  
 115TH STREET AT PULASKI ROAD

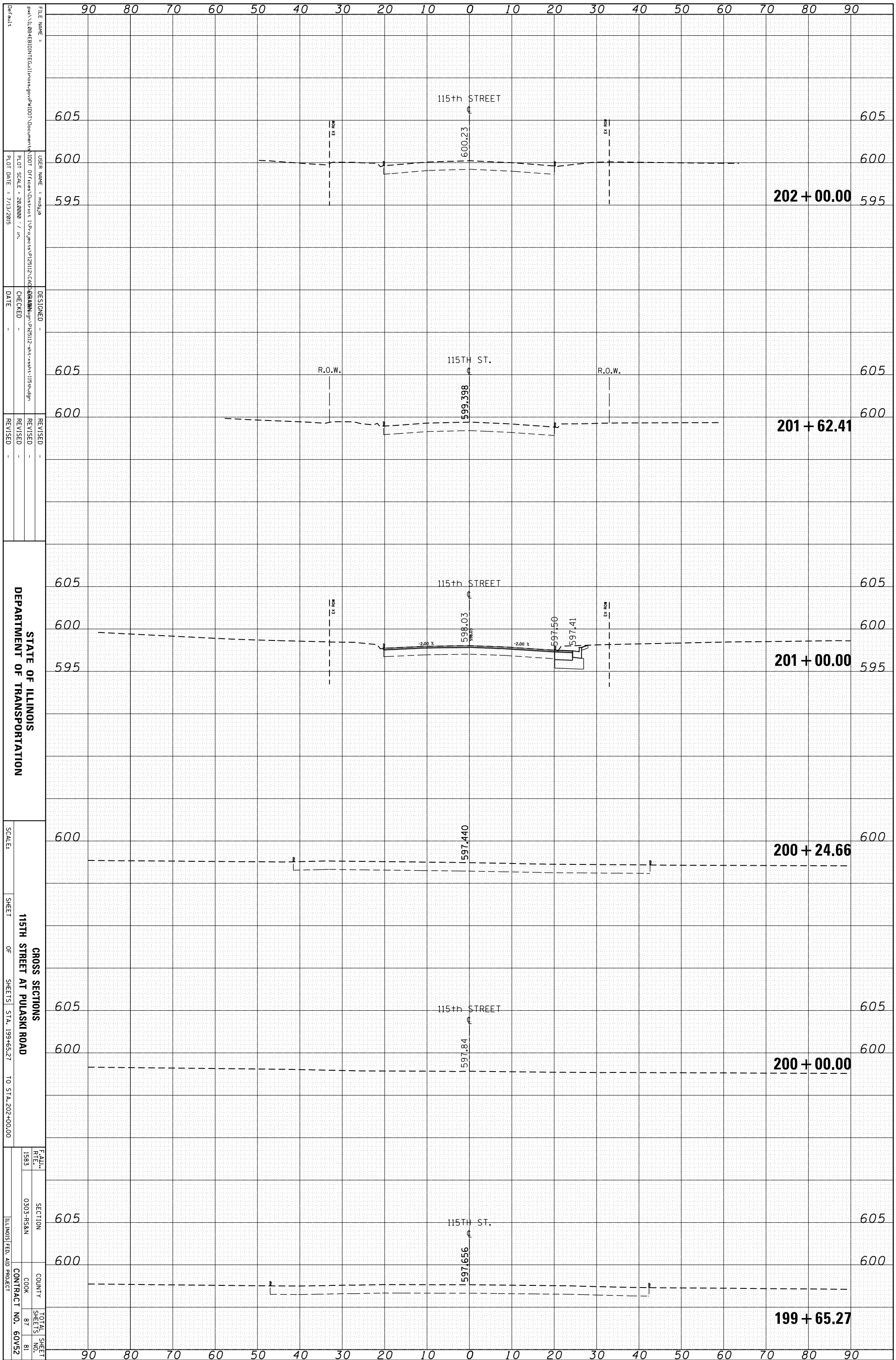
F.A.I.L. R.T.E. 1583 SECTION 0303-NS&N COUNTY COOK CONTRACT NO. 60V52

TOTAL SHEETS 80  
 SHEETS NO. 80

ILLINOIS FED. AID PROJECT

|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
|                 | AREAS CHECKED |    |      |

|              |               |    |      |
|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
|              | AREAS CHECKED |    |      |



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

**CROSS SECTIONS**  
**115TH STREET AT PULASKI ROAD**

**SCALE:**

**SHEET** OF **SHEETS** STA. 199+65.27 TO STA. 202+00.00

**F.A.I.L. RTE. 1583**

**SECTION 0303-MS&M**

**COUNTY COOK**

**TOTAL SHEETS 87**

**CONTRACT NO. 60V52**

**FILE NAME:**

**USER NAME:** mdyja

**DESIGNED:**

**CHECKED:**

**DATE:**

**REVISIONS:**

**REVISION:**

**DATE:**

**REVISION:**

**REVISION:**

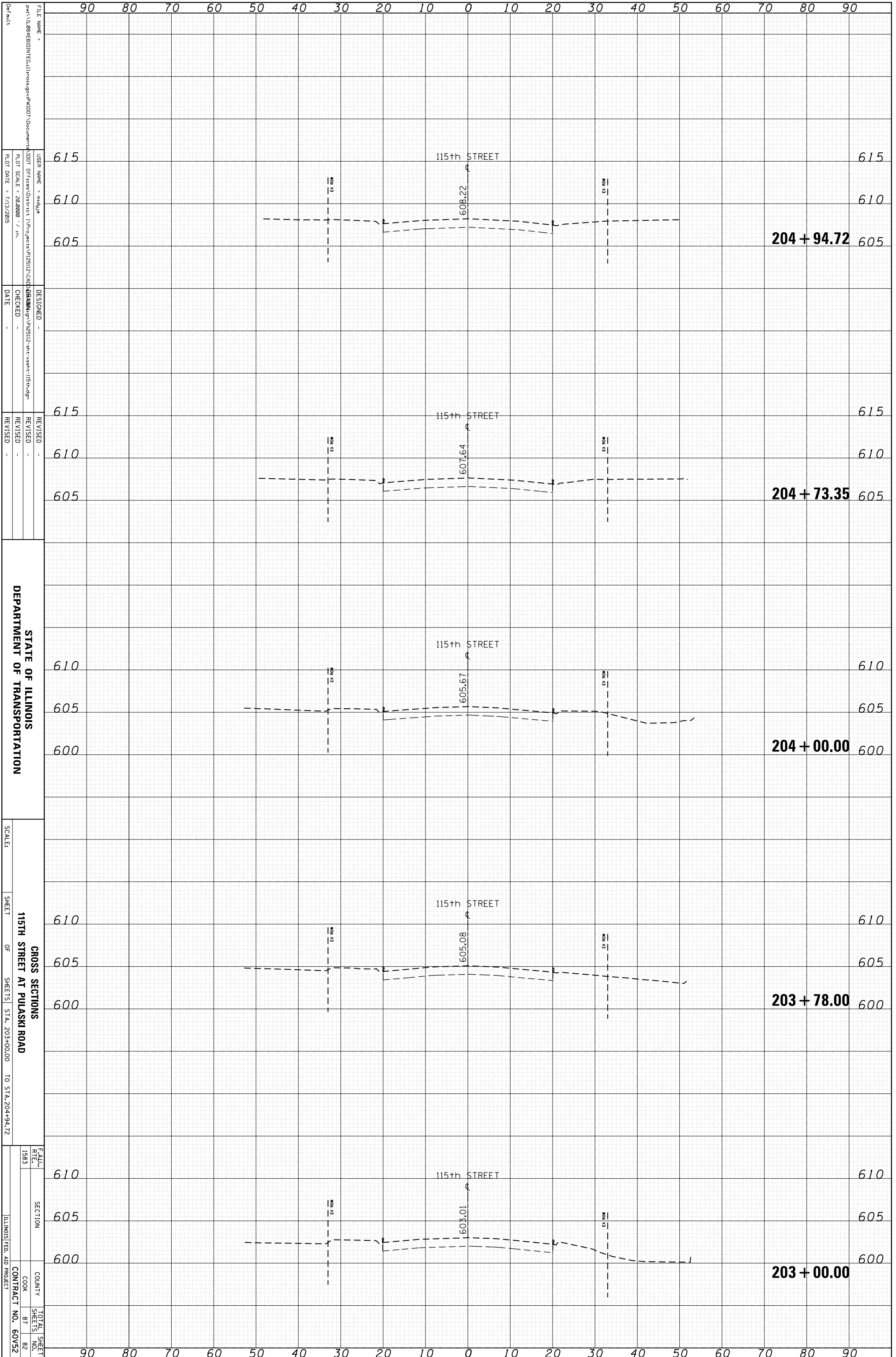
**DATE:**

**PLT SCALE:** 28.0000 / in.

**PLT DATE:** 7/13/2015

|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
|                 | AREAS CHECKED |    |      |

|              |               |    |      |
|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
|              | AREAS CHECKED |    |      |



FILE NAME:   
 USER NAME:   
 PLOT SCALE:   
 PLOT DATE:   
 DESIGNED:   
 CHECKED:   
 DATE:   
 REVISED:   
 REVISED:   
 REVISED:

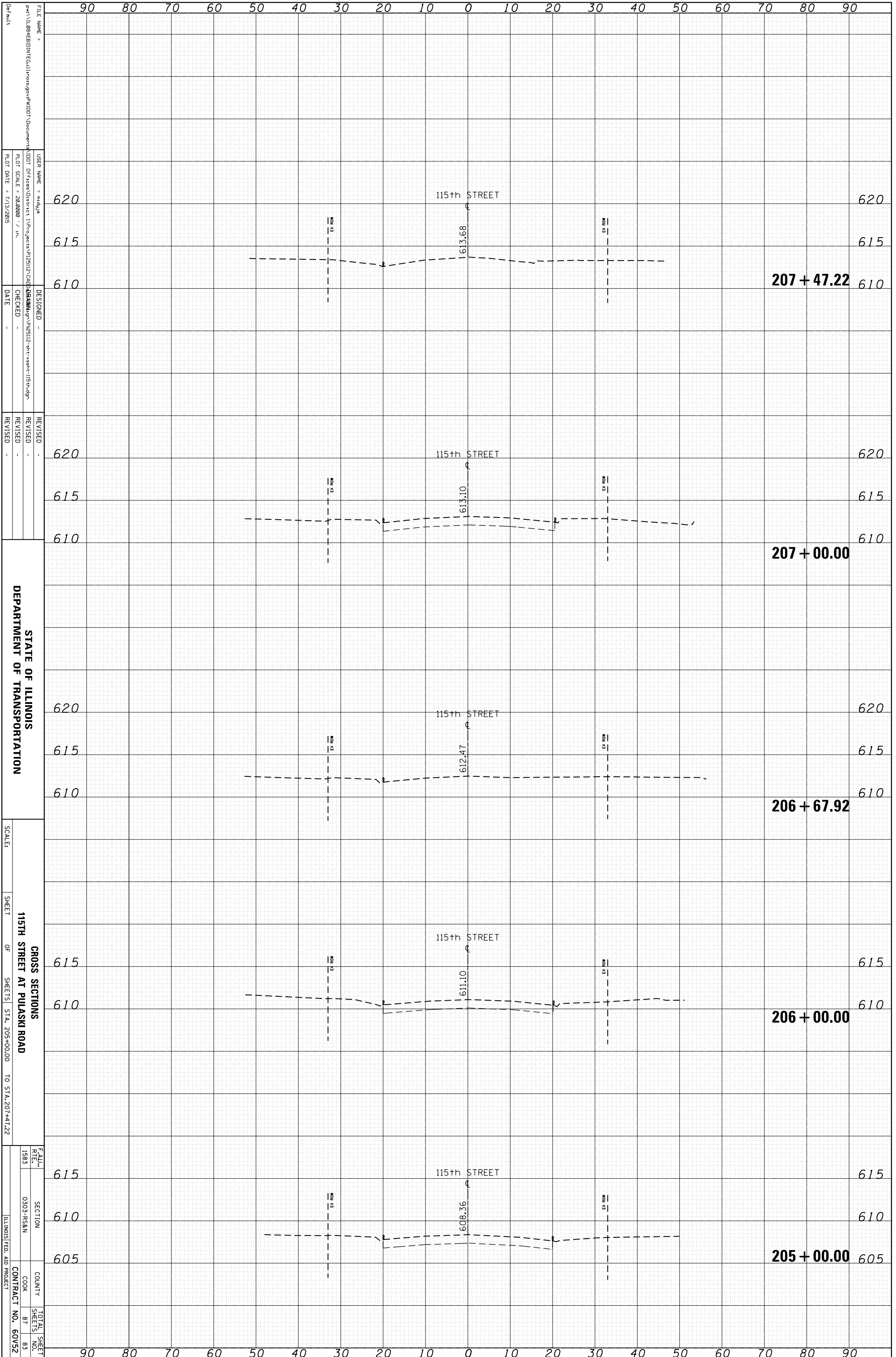
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE:   
 SHEET OF SHEETS   
 STA. 203+00.00 TO STA. 204+94.72

CROSS SECTIONS  
 115TH STREET AT PULASKI ROAD  
 SECTION   
 COUNTY   
 COOK   
 CONTRACT NO.   
 TOTAL SHEET SHEETS NO.   
 87 82

|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
|                 | AREAS CHECKED |    |      |

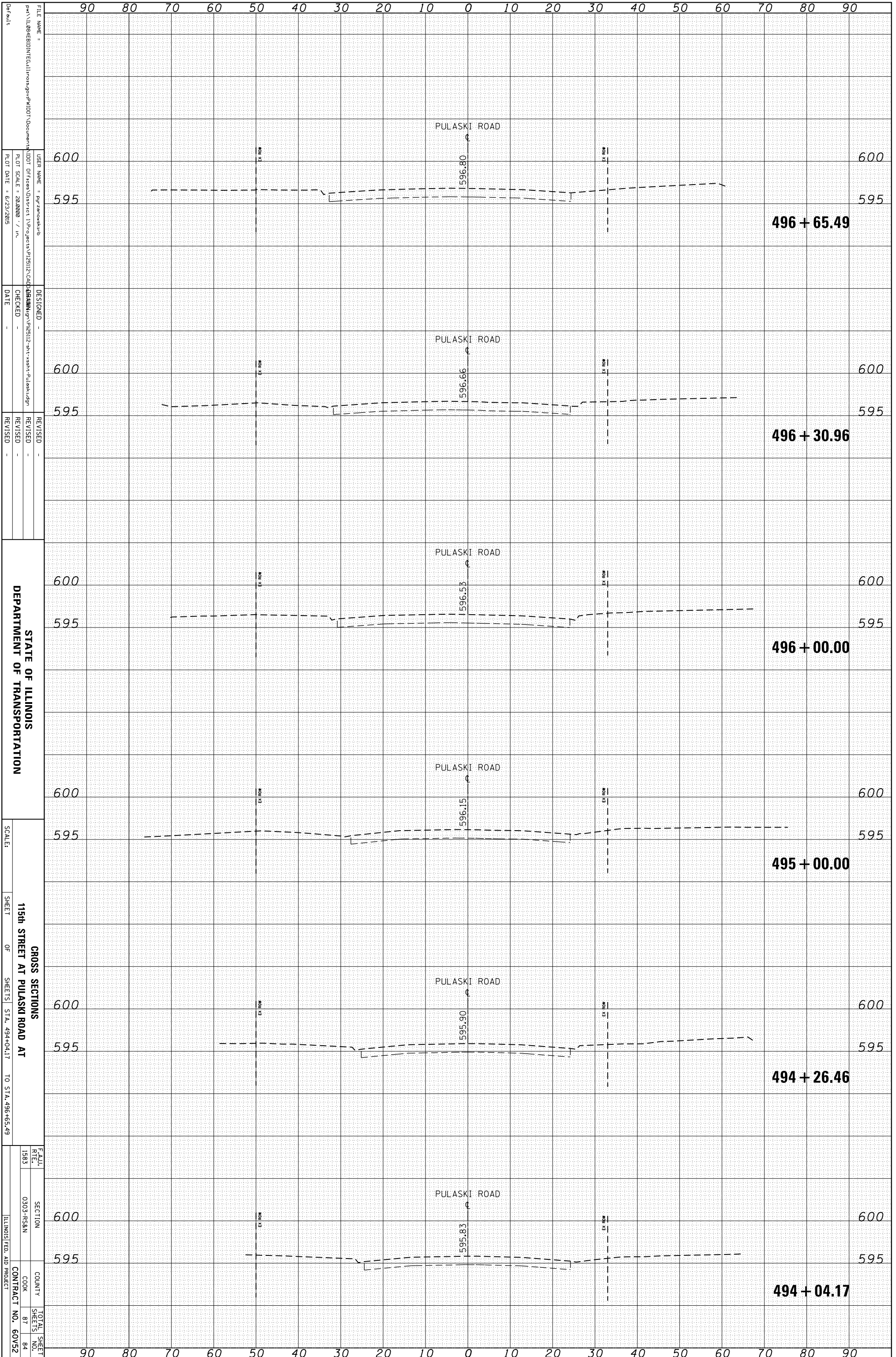
|              |               |    |      |
|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
|              | AREAS CHECKED |    |      |



FILE NAME = ...  
 USER NAME = ...  
 PLOT SCALE = 28,000 / in.  
 PLOT DATE = 7/13/2015  
 DESIGNED -  
 CHECKED -  
 DATE -  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -  
 DEPARTMENT OF TRANSPORTATION  
 SCALE:  
 SHEET OF SHEETS  
 STA. 205+00.00 TO STA. 207+47.22  
 CROSS SECTIONS  
 115TH STREET AT PULASKI ROAD  
 SECTION 0303-RS&N  
 COUNTY COOK  
 CONTRACT NO. 60V52  
 TOTAL SHEET NO. 83

|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
|                 | AREAS CHECKED |    |      |

|              |               |    |      |
|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
|              | AREAS CHECKED |    |      |



FILE NAME =  
 USER NAME =  
 PLOT SCALE =  
 PLOT DATE =

DESIGNED -  
 CHECKED -  
 DATE -

REVISOR -  
 REVISION -  
 REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE:  
 SHEET OF  
 SHEETS

CROSS SECTIONS  
 115th STREET AT PULASKI ROAD AT  
 STA. 494+04.17 TO STA. 496+65.49

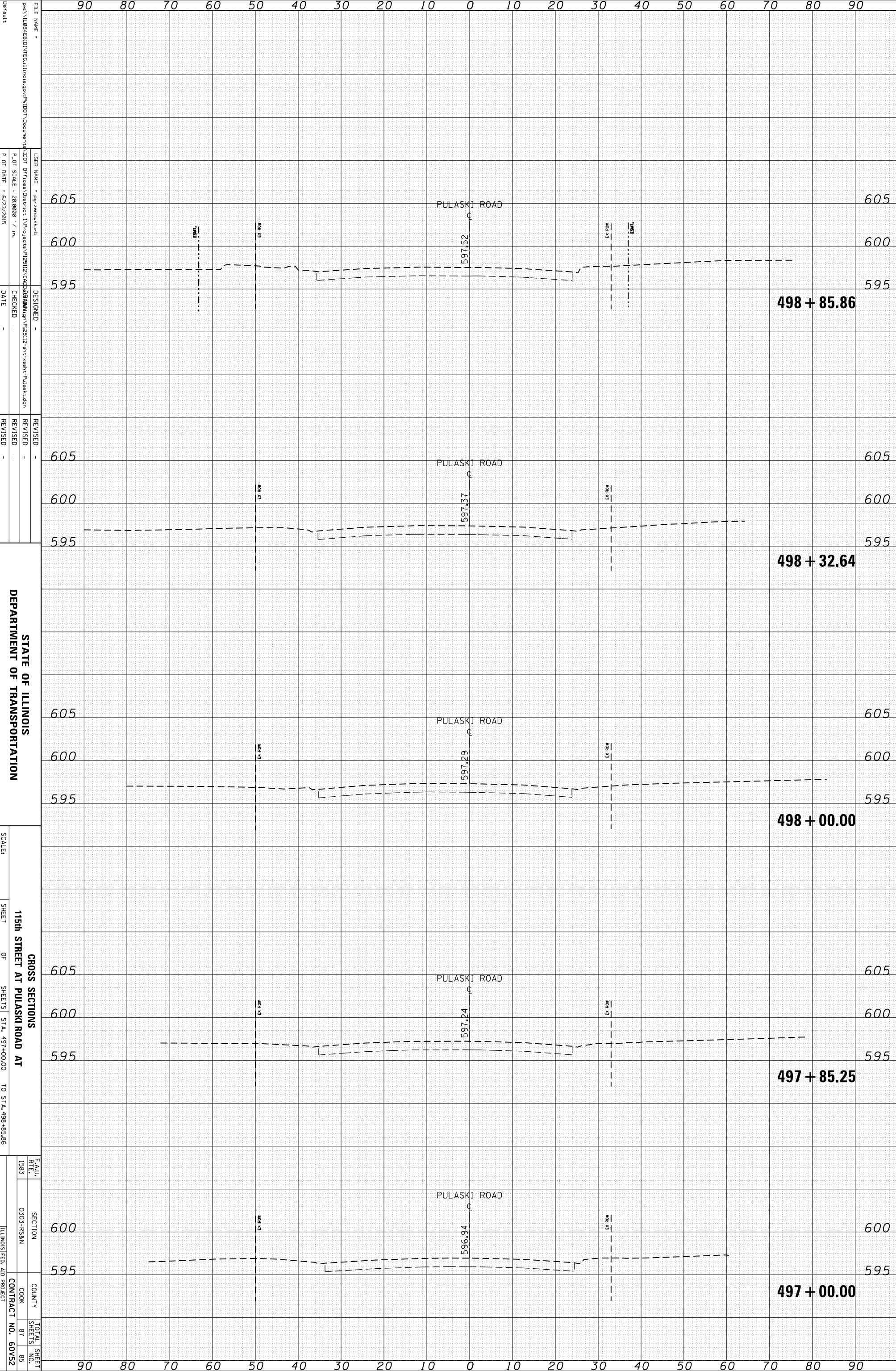
SECTION  
 COUNTY  
 CONTRACT NO.

TOTAL SHEETS  
 SHEETS NO.



|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
|                 | AREAS CHECKED |    |      |

|              |               |    |      |
|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
|              | AREAS CHECKED |    |      |



FILE NAME = ...  
 USER NAME = ...  
 PLOT SCALE = 28,000 / in.  
 PLOT DATE = 6/23/2015

DESIGNED -  
 CHECKED -  
 DATE -

REVISOR -  
 REVISION -  
 REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

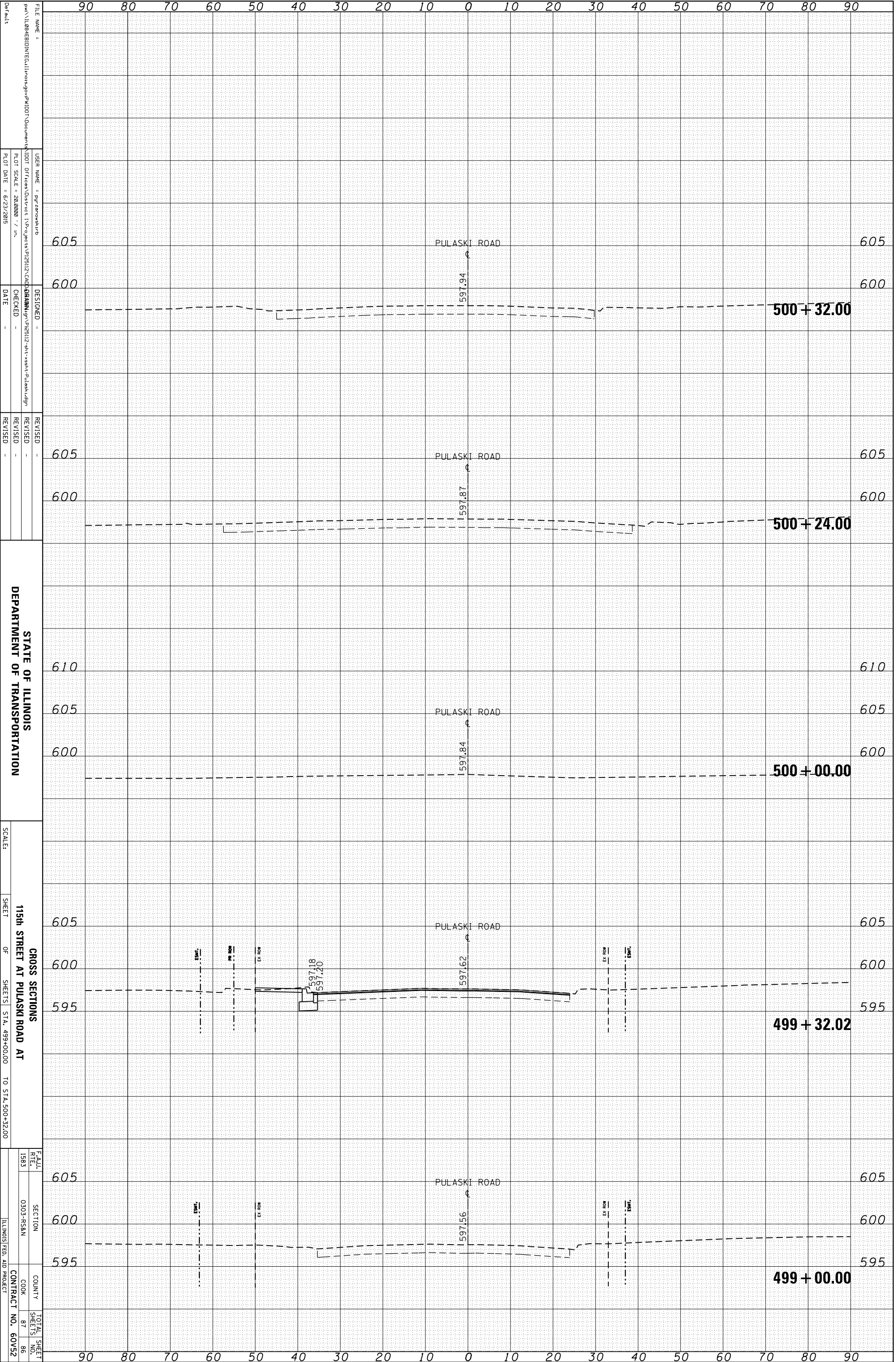
SCALE: 115th STREET AT PULASKI ROAD AT  
 SHEET 115th STREET AT PULASKI ROAD AT  
 OF SHEETS STA. 497+00.00 TO STA. 498+85.86

GROSS SECTIONS

|           |          |                           |              |
|-----------|----------|---------------------------|--------------|
| FILE NAME | SECTION  | COUNTY                    | TOTAL SHEETS |
| 1583      | 030-NS&N | COOK                      | 87           |
|           |          |                           | 85           |
|           |          | CONTRACT NO.              | 60V52        |
|           |          | ILLINOIS FED. AID PROJECT |              |

|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
| NO.             | AREAS CHECKED |    |      |

|              |               |    |      |
|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
| NO.          | AREAS CHECKED |    |      |



FILE NAME: ...  
 USER NAME: ...  
 PLOT SCALE: ...  
 PLOT DATE: ...

DESIGNED: ...  
 CHECKED: ...  
 DATE: ...

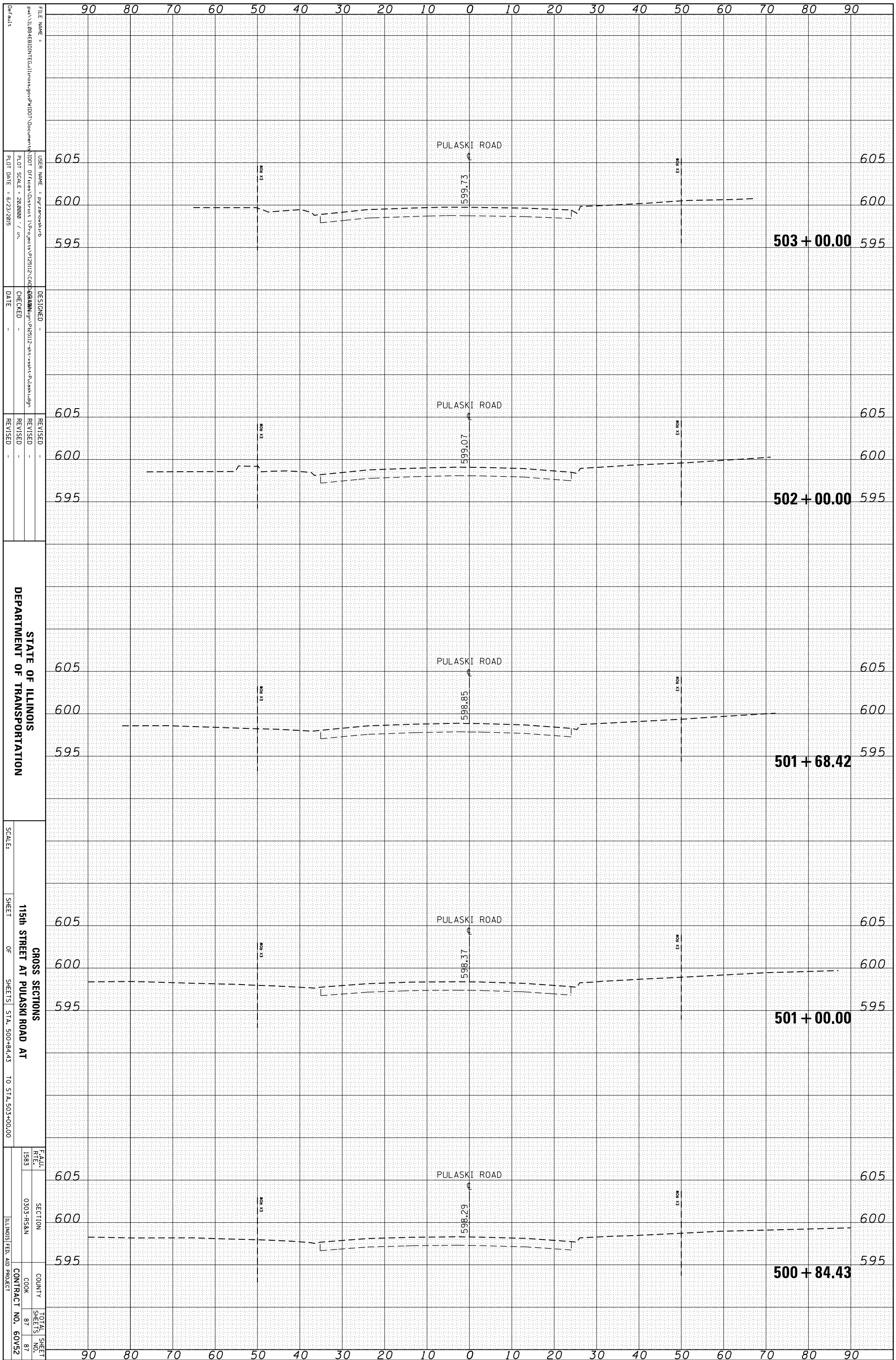
REVISIONS:  
 REVISION 1:  
 REVISION 2:  
 REVISION 3:

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 SCALE:  
 SHEET OF SHEETS  
 STA. 499+00.00 TO STA. 500+32.00

| FEALU. RTE. | SECTION   | COUNTY | TOTAL SHEET NO.           |
|-------------|-----------|--------|---------------------------|
| 1583        | 0303-RS&N | COOK   | 87                        |
|             |           |        | 86                        |
|             |           |        | 60V52                     |
|             |           |        | CONTRACT NO. 60V52        |
|             |           |        | ILLINOIS FED. AID PROJECT |

|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
|                 | AREAS CHECKED |    |      |

|              |               |    |      |
|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
|              | AREAS CHECKED |    |      |



FILE NAME =   
 USER NAME =   
 PLOT SCALE = 28,000 / in.   
 PLOT DATE = 6/23/2015

DESIGNED -   
 CHECKED -   
 DATE -

REVISID -   
 REVISID -   
 REVISID -

STATE OF ILLINOIS   
 DEPARTMENT OF TRANSPORTATION

SCALE:   
 SHEET 115th STREET AT PULASKI ROAD AT   
 OF SHEETS STA. 500+84.43 TO STA. 503+00.00

GROSS SECTIONS

SECTION 0303-RS&N   
 COUNTY COOK   
 CONTRACT NO. 60V52

TOTAL SHEET SHEETS 87