11-17-2023 LETTING ITEM 034

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 1 |
| | ILLINOIS | CONTRACT NO. 62T65 | | |

# STATE OF ILLINOIS
# DEPARTMENT OF TRANSPORTATION

# PROPOSED
# HIGHWAY PLANS

## FAP ROUTE 0311: US 34 (OGDEN AVENUE)
## BEAUMONT DR./SHANDREW DR. TO SW OF AURORA RD.
## SECTION: FAP 0311 22 RS
## PROJECT NHPP–11J0(100)
## SMART OVERLAY & ADA IMPROVEMENT
## DUPAGE COUNTY

C–91–275–22

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN THE CITY OF NAPERVILLE

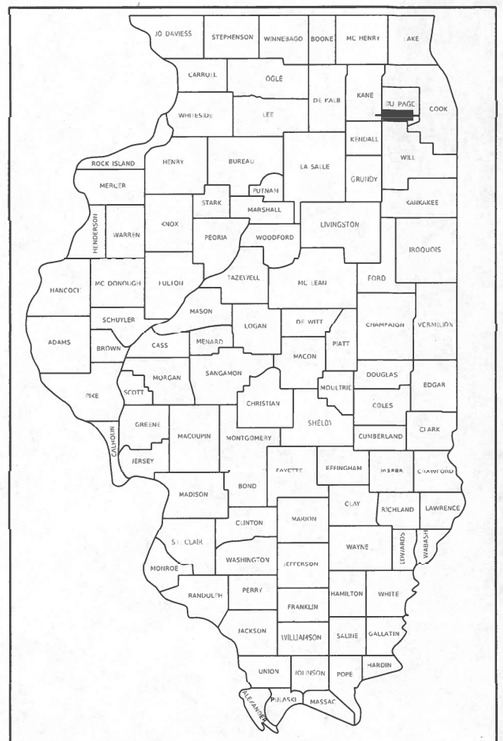
**TRAFFIC DATA**

2021 ADT
OGDEN AVENUE = 21,700 – 31,300

**POSTED SPEET LIMIT**

OGDEN AVENUE = 40 MPH

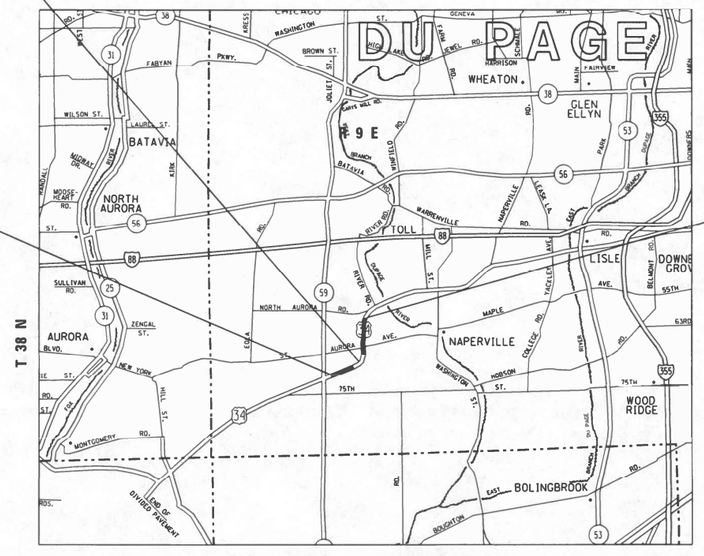
D-91-222-22




LOCATION OF SECTION INDICATED THUS: –

**OMISSION**
STA 49+56.17 TO STA 69+23.38

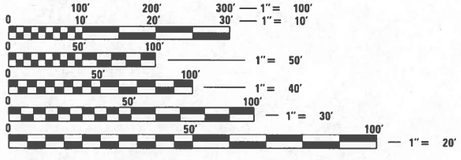
**IMPROVEMENT BEGINS**
STA 19+45.5




**IMPROVEMENT ENDS**
STA 129+96.5

NAPERVILLE TOWNSHIP

GROSS LENGTH = 11051 FT. = 2.092 MILE
NET LENGTH = 9084 FT. = 1.720 MILE




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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 18 20 23
REGIONAL ENGINEER
October 13, 2023
ENGINEER OF DESIGN AND ENVIRONMENT
October 13, 2023
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: DAN WILGREEN (847) 705–4240
PROJECT MANAGER: FAWAD AQUEEL

CONTRACT NO. 62T65

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

## INDEX OF SHEETS


| SHEET NO. | DESCRIPTION |
|---|---|
| 1 | COVER SHEET |
| 2 | INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES |
| 3-6 | SUMMARY OF QUANTITIES |
| 7-9 | EXISTING AND PROPOSED TYPICAL SECTIONS |
| 10-14 | ROADWAY PLAN |
| 15 | ADA RAMP DETAIL |
| 16-23 | DETECTOR LOOP AND APS PLANS |
| 24 | DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB & EDGE OF SHOULDER (BD-01) |
| 25 | DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB (BD-02) |
| 26 | DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08) |
| 27 | PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) |
| 28 | CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24) |
| 29 | BUTT JOINT AND HMA TAPER DETAILS (BD-32) |
| 30 | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10) |
| 31 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11) |
| 32 | DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13) |
| 33 | TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14) |
| 34 | PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16) |
| 35 | ARTERIAL ROAD INFORMATION SIGN (TC-22) |
| 36 | DRIVEWAY ENTRANCE SIGNING (TC-26) |
| 37 | DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07) |
| 38 | PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS (PD-01) |


## STATE STANDARDS

| STANDARD NO. | DESCRIPTION |
|---|---|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 424001-11 | PREPENDICULAR CURB RAMPS FOR SIDEWALKS |
| 424011-04 | CORNER PARALLEL CURB RAMPS FOR SIDEWALKS |
| 424021-06 | DEPRESSED CORNER FOR SIDEWALKS |
| 442201-03 | CLASS C AND D PATCHES |
| 604001-05 | FRAME AND LIDS, TYPE 1 |
| 606001-08 | COMBINATION CONCRETE CURB AND GUTTER |
| 701101-05 | OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24'' (600 MM) FROM PAVEMENT EDGE |
| 701106-02 | OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY |
| 701427-05 | LANE CLOSURE, MULTILANE, INTERMITTEN OR MOVING OPERATION, FOR SPEEDS <40 MPH |
| 701601-09 | URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN |
| 701602-10 | URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE |
| 701606-10 | URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN |
| 701611-01 | URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNATBLE MEDIAN |
| 701701-10 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701801-06 | SIDEWALK, CORNER OR CROSSWALK CLOSURE |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 886001-01 | DETECTOR LOOP INSTALLATIONS |
| 886006-01 | TYPICAL LAYOUT FOR DETECTOR LOOPS |

## GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF NAPERVILLE.

2. THE ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GO, A MINIMUM FO TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

3. THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY (or TOLLWAY) WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT(or ISTHA).

4. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

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

6. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN.

7. SIDEWALK REMOVAL AND P.C.C. SIDEWALK 5'' LOCATIONS SHALL BE DETERMINED IN THE FIELD BY ENGINEER.

8. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

9. THE CONTRACTOR SHALL CONTACT THE IDOT ARTERIAL DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN-HOSADURGA AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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

11. 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.

12. OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.

13. 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.

14. 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.

15. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

16. ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGE BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.

17. CONTRACTOR TO VERIFY VERTICAL CLEARANCE FOR HIGHWAY RAILROAD UNDERPASS.

18. THE "ROADWAY CONSTRUCTION AHEAD'' SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.



| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - | |

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

**INDEX OF SHEETS, STANDARDS, & GENERAL NOTES**
**US 34 (OGDEN AVE) (BEAUMONT DR TO AURORA AVE)**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 2 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS | FED. AID PROJECT | | |

## SUMMARY OF QUANTITIES

| CODE NO | ITEM | UNIT | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE 0005 80% FED 20% STATE | CONSTRUCTION TYPE CODE 0005 100% STATE | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 20200100 | EARTH EXCAVATION | CU YD | 5 | 5 | | | | | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 162 | 162 | | | | | |
| 25200110 | SODDING, SALT TOLERANT | SQ YD | 162 | 162 | | | | | |
| 25200200 | SUPPLEMENTAL WATERING | UNIT | 1.6 | 1.6 | | | | | |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 70 | 70 | | | | | |
| 35501316 | HOT-MIX ASPHALT BASE COURSE, 8" | SQ YD | 49 | 49 | | | | | |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 28693 | 28693 | | | | | |
| 40600370 | LONGITUDINAL JOINT SEALANT | FOOT | 35579 | 35579 | | | | | |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 96 | 96 | | | | | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 361 | 361 | | | | | |
| 40604060 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 | TON | 5.5 | 5.5 | | | | | |
| 40605026 | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80 | TON | 6249 | 6249 | | | | | |
| 42001300 | PROTECTIVE COAT | SQ YD | 389 | 389 | | | | | |

## SUMMARY OF QUANTITIES

| CODE NO | ITEM | UNIT | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE 0005 80% FED 20% STATE | CONSTRUCTION TYPE CODE 0005 100% STATE | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 42300400 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH | SQ YD | 47 | 47 | | | | | |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | SQ FT | 496 | 496 | | | | | |
| 42400800 | DETECTABLE WARNINGS | SQ FT | 52 | 52 | | | | | |
| 44000156 | HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" | SQ YD | 63761 | 63761 | | | | | |
| 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQ YD | 96 | 96 | | | | | |
| 44000600 | SIDEWALK REMOVAL | SQ FT | 406 | 406 | | | | | |
| 44003510 | MEDIAN REMOVAL PARTIAL DEPTH | SQ FT | 60 | 60 | | | | | |
| 44201803 | CLASS D PATCHES, TYPE II, 13 INCH | SQ YD | 150 | 150 | | | | | |
| 44201807 | CLASS D PATCHES, TYPE III, 13 INCH | SQ YD | 100 | 100 | | | | | |
| 44201809 | CLASS D PATCHES, TYPE IV, 13 INCH | SQ YD | 400 | 400 | | | | | |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 101 | 101 | | | | | |
| 54213675 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30" | EACH | 1 | 1 | | | | | |
| 60252800 | CATCH BASINS TO BE RECONSTRUCTED | EACH | 2 | 2 | | | | | |
| | • SPECIALTY ITEMS | | | | | | | | |

FILE NAME = pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\DI22222\CADData\Design\DI22222-sht-SOQ.dgn

USER NAME = Wendy.Andonoyre
PLOT SCALE = 100.0000 ' / In.
PLOT DATE = 8/22/2023

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

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

**SUMMARY OF QUANTITIES**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 3 |
| | | CONTRACT NO. 62T65 | | |

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

| | SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | CODE NO | ITEM | UNIT | | 0005 80% FED 20% STATE | 0005 100% STATE | | | | |
| | 60257900 | MANHOLES TO BE RECONSTRUCTED | EACH | 2 | 2 | | | | | |
| | 60300105 | FRAMES AND GRATES TO BE ADJUSTED | EACH | 2 | 2 | | | | | |
| | 60300305 | FRAMES AND LIDS TO BE ADJUSTED | EACH | 10 | 10 | | | | | |
| • | 66900200 | NON-SPECIAL WASTE DISPOSAL | CU YD | 5 | 5 | | | | | |
| • | 66900530 | SOIL DISPOSAL ANALYSIS | EACH | 3 | 3 | | | | | |
| • | 66901001 | REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN | L SUM | 1 | 1 | | | | | |
| • | 66901003 | REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT | L SUM | 1 | 1 | | | | | |
| • | 66901006 | REGULATED SUBSTANCES MONITORING | CAL DA | 3 | 3 | | | | | |
| | 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 12 | 12 | | | | | |
| | 67100100 | MOBILIZATION | L SUM | 1 | 1 | | | | | |
| | 70102632 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701602 | L SUM | 1 | 1 | | | | | |
| | 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 | 1 | | | | | |
| | 70102640 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 | L SUM | 1 | 1 | | | | | |

| | SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | CODE NO | ITEM | UNIT | | 0005 80% FED 20% STATE | 0005 100% STATE | | | | |
| | 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 28444 | 28444 | | | | | |
| | 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 4741 | 4741 | | | | | |
| | 70300211 | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT | SQ FT | 1027 | 1027 | | | | | |
| | 70300221 | TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT | FOOT | 35182 | 35182 | | | | | |
| | 70300241 | TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT | FOOT | 2800 | 2800 | | | | | |
| | 70300251 | TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT | FOOT | 152 | 152 | | | | | |
| | 70300261 | TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT | FOOT | 6271 | 6271 | | | | | |
| | 70300281 | TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT | FOOT | 473 | 473 | | | | | |
| • | 70306120 | TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE | FOOT | 14223 | 14223 | | | | | |
| • | 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT | 1027 | 1027 | | | | | |

• SPECIALTY ITEMS

| | | | |
|---|---|---|---|
| FILE NAME = pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\D122222\CADData\Design\D122222-sht-SOQ.dgn | USER NAME = Wendy.Andonoyre | DESIGNED - | REVISED - |
| | | DRAWN - | REVISED - |
| | PLOT SCALE = 100.0000 ' / In. | CHECKED - | REVISED - |
| | PLOT DATE = 8/22/2023 | DATE - | REVISED - |

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

**SUMMARY OF QUANTITIES**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 4 |
| | | CONTRACT NO. 62T65 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | | |

| | SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | CODE NO | ITEM | UNIT | | 0005 80% FED 20% STATE | 0005 100% STATE | | | | |
| • | 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE | FOOT | 35182 | 35182 | | | | | |
| | | 4" | | | | | | | | |
| | | | | | | | | | | |
| • | 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE | FOOT | 2800 | 2800 | | | | | |
| | | 6" | | | | | | | | |
| | | | | | | | | | | |
| • | 78000500 | THERMOPLASTIC PAVEMENT MARKING - LINE | FOOT | 152 | 152 | | | | | |
| | | 8" | | | | | | | | |
| | | | | | | | | | | |
| • | 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE | FOOT | 6271 | 6271 | | | | | |
| | | 12" | | | | | | | | |
| | | | | | | | | | | |
| • | 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE | FOOT | 473 | 473 | | | | | |
| | | 24" | | | | | | | | |
| | | | | | | | | | | |
| • | 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 1004 | 1004 | | | | | |
| | | | | | | | | | | |
| | 78300200 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 1002 | 1002 | | | | | |
| | | REMOVAL | | | | | | | | |
| | | | | | | | | | | |
| | 78300202 | PAVEMENT MARKING REMOVAL-WATER BLASTING | SQ FT | 21473 | 21473 | | | | | |
| | | | | | | | | | | |
| • | 81028200 | UNDERGROUND CONDUIT, GALVANIZED STEEL, | FOOT | 226 | 226 | | | | | |
| | | 2" DIA. | | | | | | | | |
| | | | | | | | | | | |
| • | 85000200 | MAINTENANCE OF EXISTING TRAFFIC SIGNAL | EACH | 4 | 4 | | | | | |
| | | INSTALLATION | | | | | | | | |
| | | | | | | | | | | |
| • | 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL | FOOT | 1172 | 1172 | | | | | |
| | | NO. 14 2C | | | | | | | | |
| | | | | | | | | | | |

| | SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | CODE NO | ITEM | UNIT | | 0005 80% FED 20% STATE | 0005 100% STATE | | | | |
| • | 87301305 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, | FOOT | 1631 | 1631 | | | | | |
| | | NO. 14 1 PAIR | | | | | | | | |
| | | | | | | | | | | |
| • | 87301900 | ELECTRIC CABLE IN CONDUIT, EQUIPMENT | FOOT | 304 | 304 | | | | | |
| | | GROUNDING CONDUCTOR, NO. 6 1C | | | | | | | | |
| | | | | | | | | | | |
| • | 87900200 | DRILL EXISTING HANDHOLE | EACH | 10 | 10 | | | | | |
| | | | | | | | | | | |
| • | 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 4 | 4 | | | | | |
| | | | | | | | | | | |
| • | 88600100 | DETECTOR LOOP, TYPE I | FOOT | 3765 | 3765 | | | | | |
| | | | | | | | | | | |
| • | 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE | FOOT | 134 | 134 | | | | | |
| | | FROM CONDUIT | | | | | | | | |
| | | | | | | | | | | |
| • | 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 4 | 4 | | | | | |
| | | | | | | | | | | |
| • | 89502380 | REMOVE EXISTING HANDHOLE | EACH | 2 | 2 | | | | | |
| | | | | | | | | | | |
| • | 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 2 | 2 | | | | | |
| | | | | | | | | | | |
| | X0320050 | CONSTRUCTION LAYOUT (SPECIAL) | L SUM | 1 | 1 | | | | | |
| | | | | | | | | | | |
| | X5427602 | REMOVE EXISTING FLARED END SECTION | EACH | 1 | 1 | | | | | |
| | | | | | | | | | | |
| • | X1400378 | PEDESTRIAN SIGNAL POST, 5 FT. | EACH | 10 | 10 | | | | | |
| | | | | | | | | | | |
| | X2020110 | GRADING AND SHAPING SHOULDERS | UNIT | 63 | 63 | | | | | |
| | | | | | | | | | | |
| | | • SPECIALTY ITEMS | | | | | | | | |

| | | | |
|---|---|---|---|
| FILE NAME = pw:\\Idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\DI22222\CADData\Design\DI22222-sht-SOQ.dgn | USER NAME = Wendy.Andonoyre | DESIGNED - | REVISED - |
| | | DRAWN - | REVISED - |
| | PLOT SCALE = 100.0000 ' / In. | CHECKED - | REVISED - |
| | PLOT DATE = 8/22/2023 | DATE - | REVISED - |

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

**SUMMARY OF QUANTITIES**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 5 |
| | | CONTRACT NO. 62T65 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | | |

REV-SEP

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CODE NO | ITEM | UNIT | | 0005 80% FED 20% STATE | 0005 100% STATE | | | | |
| X4400501 | COMBINATION CURB AND GUTTER REMOVAL AND | FOOT | 100 | 100 | | | | | |
| | REPLACEMENT LESS THAN OR EQUAL TO 10 | | | | | | | | |
| | FEET | | | | | | | | |
| X4400503 | COMBINATION CURB AND GUTTER REMOVAL AND | FOOT | 999 | 999 | | | | | |
| | REPLACEMENT GREATER THAN 10 FEET | | | | | | | | |
| X5537800 | STORM SEWERS TO BE CLEANED 12" | FOOT | 200 | | 200 | | | | |
| X6030310 | FRAMES AND LIDS TO BE ADJUSTED | EACH | 8 | 8 | | | | | |
| | (SPECIAL) | | | | | | | | |
| • X8760200 | ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 30 | 30 | | | | | |
| • X8780012 | CONCRETE FOUNDATION, TYPE A 12-INCH | FOOT | 40 | 40 | | | | | |
| | DIAMETER | | | | | | | | |
| Z0018500 | DRAINAGE STRUCTURES TO BE CLEANED | EACH | 10 | | 10 | | | | |
| Z0030850 | TEMPORARY INFORMATION SIGNING | SQ FT | 102.8 | 102.8 | | | | | |
| • Z0033044 | RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1 | EACH | 4 | 4 | | | | | |
| Z0048665 | RAILROAD PROTECTIVE LIABILITY INSURANCE | L SUM | 1 | 1 | | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CODE NO | ITEM | UNIT | | | | | | | |

• SPECIALTY ITEMS

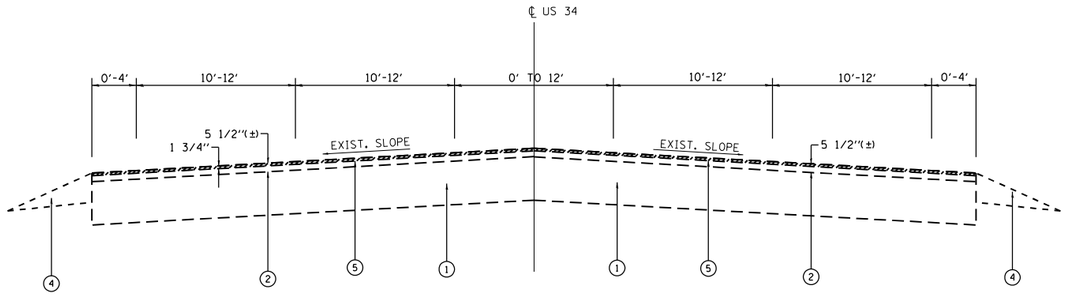
| | | | |
|---|---|---|---|
| FILE NAME = pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\D122222\CADData\Design\D122222-sht-SOQ.dgn | USER NAME = Wendy.Andonoyre | DESIGNED - | REVISED - |
| | | DRAWN - | REVISED - |
| | PLOT SCALE = 100.0000 ' / In. | CHECKED - | REVISED - |
| | PLOT DATE = 8/22/2023 | DATE - | REVISED - |

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

**SUMMARY OF QUANTITIES**

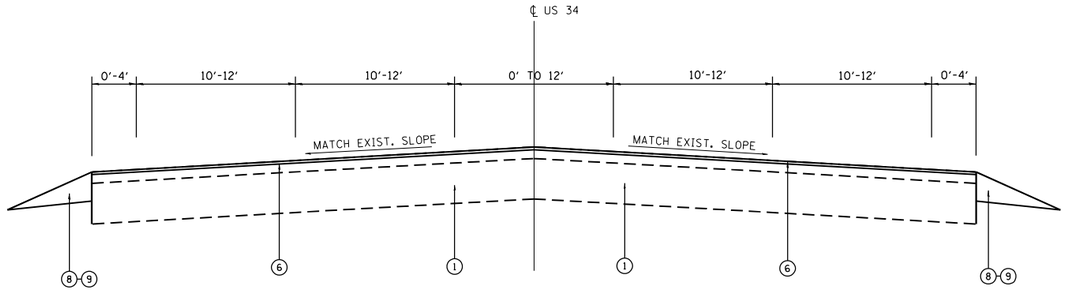
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 6 |
| | | CONTRACT NO. 62T65 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | | |




EXISTING TYPICAL SECTION
US 34 (OGDEN AVE.)

STATION:
19+45.5 TO 49+56.2




PROPOSED TYPICAL SECTION
US 34 (OGDEN AVE.)

STATION:
19+45.5 TO 49+56.2

3. THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.

4. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER MILLED SURFACE.

## LEGEND

① EXIST. PCC BASE COURSE, 9"(±)

② EXIST. HOT-MIX ASPHALT SURFACE COURSE (BEFORE MILLING), 5 1/2"(±)

③ EXIST. CONCRETE CURB AND GUTTER

④ EXIST. AGGREGATE WEDGE SHOULDER

⑤ PROP. HOT-MIX ASPHALT SURFACE REMOVAL - 1 3/4"

⑥ PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA MIX "F", N80, 1 3/4"

⑦ PROP. CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATIONS TO BE DETERMINED BY THE RESIDENT ENGINEER)

⑧ PROP. AGGREGATE WEDGE SHOULDER, TYPE B

⑨ PROP. GRADING AND SHAPING SHOULDERS

| MIXTURE REQUIREMENTS | | QUALITY MANAGEMENT PROGRAM (QMP) |
|---|---|---|
| MIXTURE USES | VOIDS @ Ndes | |
| **PAVEMENT RESURFACING** | | |
| POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA MIX "F", IL-9.5, N80, 1 3/4" | 3.5% AT 80 GYR. | QCP |
| **COMMERCIAL DRIVEWAY** | | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2" | 4.0% AT 50 GYR. | QC/QA |
| HOT-MIX ASPHALT BASE COURSE, 8" (HMA BINDER IL-19.0 MM) | 4.0% AT 50 GYR. | QC/QA |
| **PATCHING** | | |
| CLASS D PATCHES (HMA BINDER, 19 mm) | 4.0% AT 70 GYR. | QC/QA |
| QMP Designation: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP), OR PAY FOR PERFORMANCE (PFP) | | |

## NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN

2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22"AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.



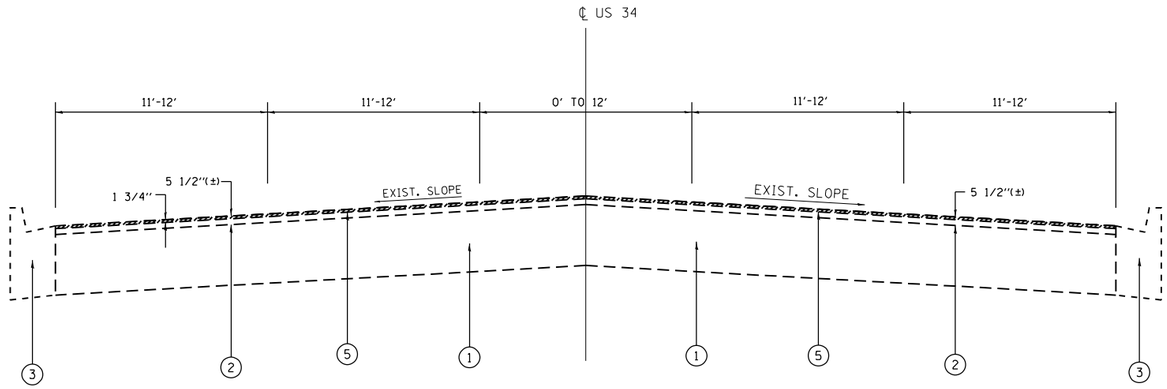
| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - | |

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

**US 34 (OGDEN AVE.)**
**EXISTING AND PROPOSED TYPICAL SECTIONS**

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

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 7 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS | FED. AID PROJECT | | |




EXISTING TYPICAL SECTION
US 34 (OGDEN AVE.)

STATION:
69+23.4 TO 122+69
125+80 TO 129+96.5

## LEGEND

① EXIST. PCC BASE COURSE, 9''(±)

② EXIST. HOT-MIX ASPHALT SURFACE COURSE (BEFORE MILLING), 5 1/2''(±)

③ EXIST. CONCRETE CURB AND GUTTER

④ EXIST. AGGREGATE WEDGE SHOULDER

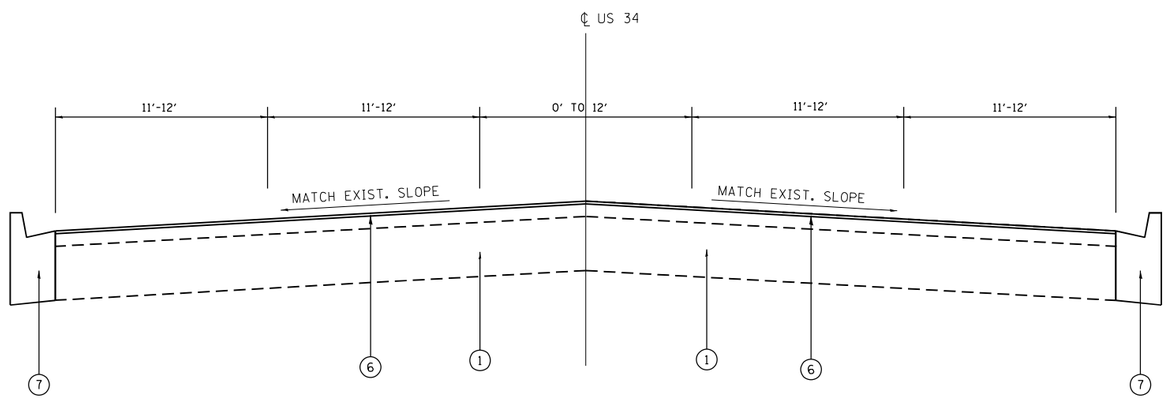
⑤ PROP. HOT-MIX ASPHALT SURFACE REMOVAL - 1 3/4''

⑥ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA MIX ''F'', N80, 1 3/4''

⑦ PROP. CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATIONS TO BE DETERMINED BY THE RESIDENT ENGINEER)

⑧ PROP. AGGREGATE WEDGE SHOULDER, TYPE B

⑨ PROP. GRADING AND SHAPING SHOULDERS




PROPOSED TYPICAL SECTION
US 34 (OGDEN AVE.)

STATION:
69+23.4 TO 122+69
125+80 TO 129+96.5



| | | | |
|---|---|---|---|
| USER NAME = Wendy.Ardonayre | DESIGNED - | REVISED - | |
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**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**US 34 (OGDEN AVE.)**
**EXISTING AND PROPOSED TYPICAL SECTIONS**

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

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
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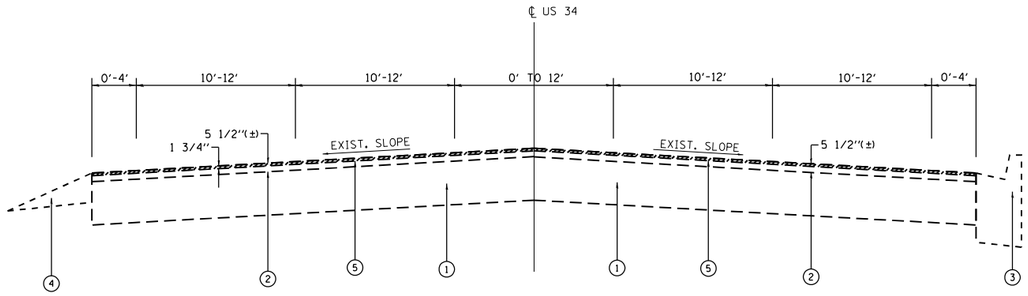
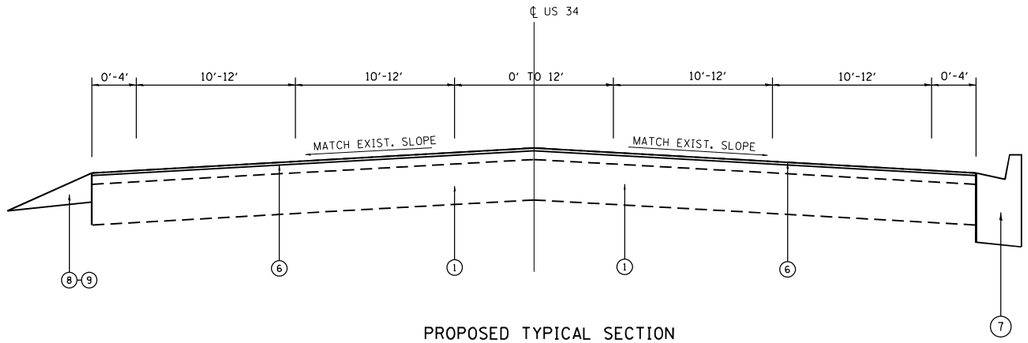
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS | FED. AID PROJECT | | |




EXISTING TYPICAL SECTION
US 34 (OGDEN AVE.)

STATION:
122+69 TO 125+80




PROPOSED TYPICAL SECTION
US 34 (OGDEN AVE.)

STATION:
122+69 TO 125+80

## LEGEND

① EXIST. PCC BASE COURSE, 9''(±)

② EXIST. HOT-MIX ASPHALT SURFACE COURSE (BEFORE MILLING), 5 1/2''(±)

③ EXIST. CONCRETE CURB AND GUTTER

④ EXIST. AGGREGATE WEDGE SHOULDER

⑤ PROP. HOT-MIX ASPHALT SURFACE REMOVAL - 1 3/4''

⑥ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA MIX ''F'', N80, 1 3/4''

⑦ PROP. CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATIONS TO BE DETERMINED BY THE RESIDENT ENGINEER)

⑧ PROP. AGGREGATE WEDGE SHOULDER, TYPE B

⑨ PROP. GRADING AND SHAPING SHOULDERS

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|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - | |

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

**US 34 (OGDEN AVE.)**
**EXISTING AND PROPOSED TYPICAL SECTIONS**

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

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
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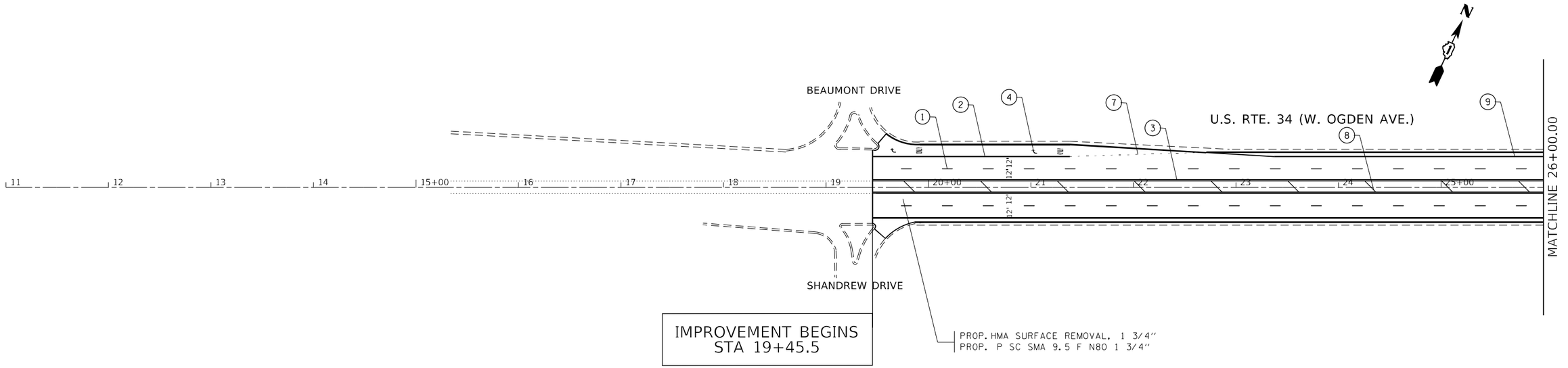
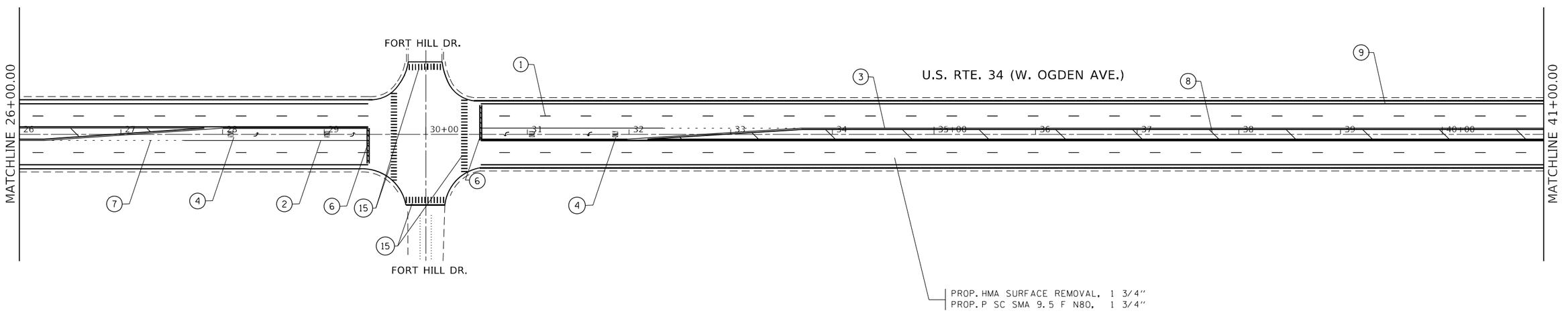
| | | CONTRACT NO. 62T65 | | |
| | | ILLINOIS | FED. AID PROJECT | |




1. PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, WHITE (TYP.)
2. PROP. THERMOPLASTIC PVMT MARKING 6", TURN LANE, WHITE (TYP.)
3. PROP. THERMOPLASTIC PVMT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.)
4. PROP. THERMOPLASTIC PVMT. MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
5. PROP. THERMOPLASTIC PVMT MARKING 4", MEDIAN LANE, YELLOW (TYP.)
6. PROP. THERMOPLASTIC PVMT MARKING LINE, 24" STOPBAR, WHITE (TYP.)
7. PROP. THERMOPLASTIC PVMT MARKING 6", 2' DASH 6' SKIP, WHITE (TYP.)
8. PROP. THERMOPLASTIC PVMT. MARKING 12" MEDIAN @ 45° 75' C-C, YELLOW (TYP.)
9. PROP. THERMOPLASTIC PVMT MARKING 4", SHOULDER LANE, WHITE (TYP.)
10. PROP. THERMOPLASTIC PVMT MARKING 8", EDGE LINE, WHITE (TYP.)
11. PROP. THERMOPLASTIC PVMT. MARKING 12" MEDIAN @ 45° 20' C-C, WHITE (TYP.)
12. PROP. THERMOPLASTIC PVMT MARKING 6", CROSSWALK LINES, WHITE (TYP.)
13. PROP. THERMOPLASTIC PVMT. MARKING 12" CROSSWALK LINES @ 45° 2' C-C, WHITE (TYP.)
14. PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, YELLOW (TYP.)
15. PROP. THERMOPLASTIC PVMT. MARKING 12" CROSSWALK LINES @ 90° 2' C-C, WHITE (TYP.)

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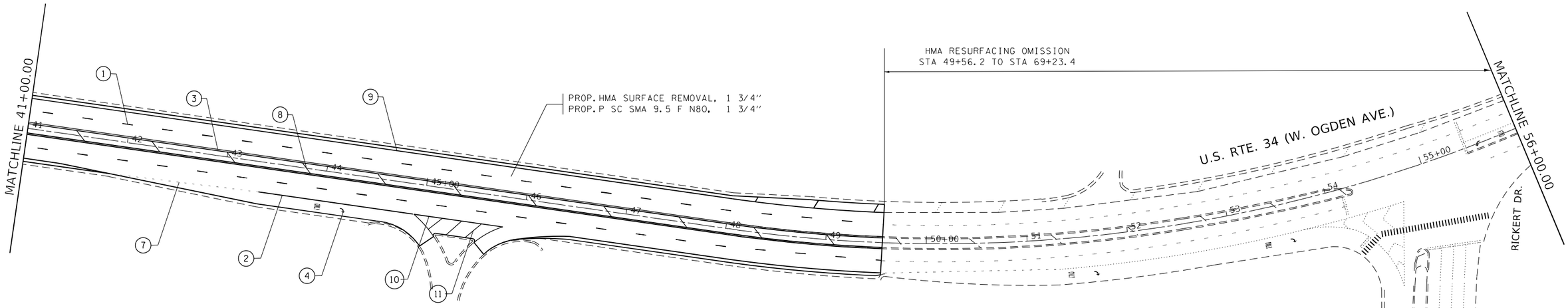
|---|---|---|---|
| USER NAME = Wendy.Ardonayre | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - | |

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

**ROADWAY PLAN**
**US 34 (OGDEN AVE) (BEAUMONT DR TO AURORA AVE)**

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

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP-0311-22-RS | DUPAGE | 38 | 10 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |




1. PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, WHITE (TYP.)
2. PROP. THERMOPLASTIC PVMT MARKING 6", TURN LANE, WHITE (TYP.)
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6. PROP. THERMOPLASTIC PVMT MARKING LINE, 24" STOPBAR, WHITE (TYP.)
7. PROP. THERMOPLASTIC PVMT MARKING 6", 2' DASH 6' SKIP, WHITE (TYP.)
8. PROP. THERMOPLASTIC PVMT. MARKING 12" MEDIAN @ 45° 75' C-C, YELLOW (TYP.)
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10. PROP. THERMOPLASTIC PVMT MARKING 8", EDGE LINE, WHITE (TYP.)
11. PROP. THERMOPLASTIC PVMT. MARKING 12" MEDIAN @ 45° 20' C-C, WHITE (TYP.)
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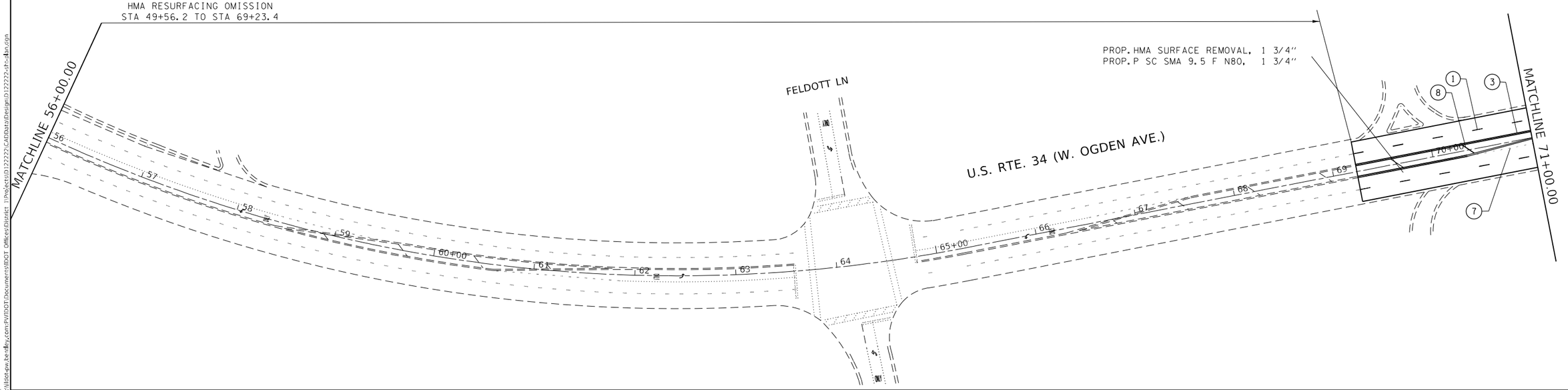


| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - | **STATE OF ILLINOIS** |
| | DRAWN - | REVISED - | **DEPARTMENT OF TRANSPORTATION** |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - | |

**ROADWAY PLAN**
**US 34 (OGDEN AVE) (BEAUMONT DR TO AURORA AVE)**

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

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP-0311-22-RS | DUPAGE | 38 | 11 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |

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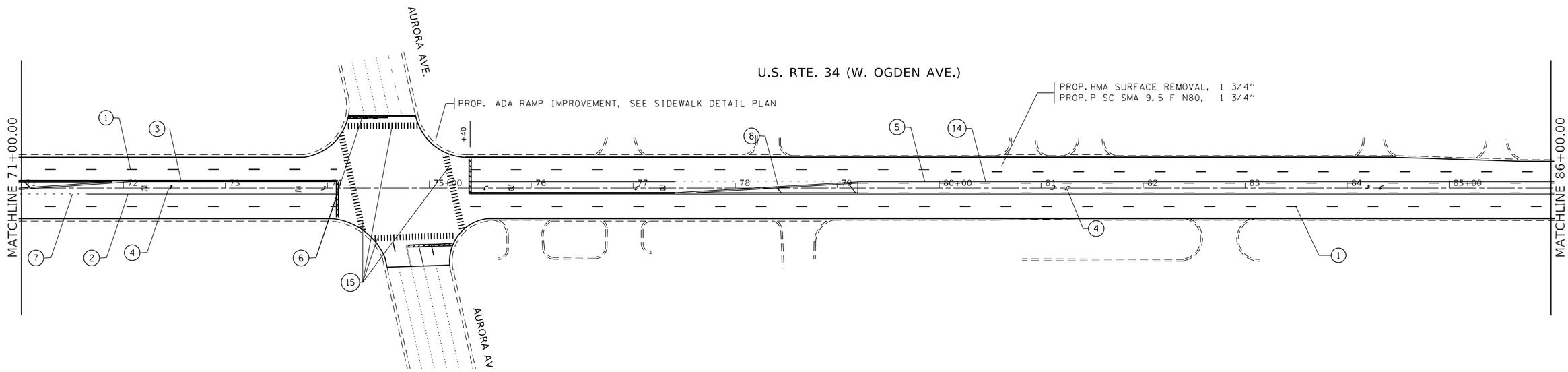


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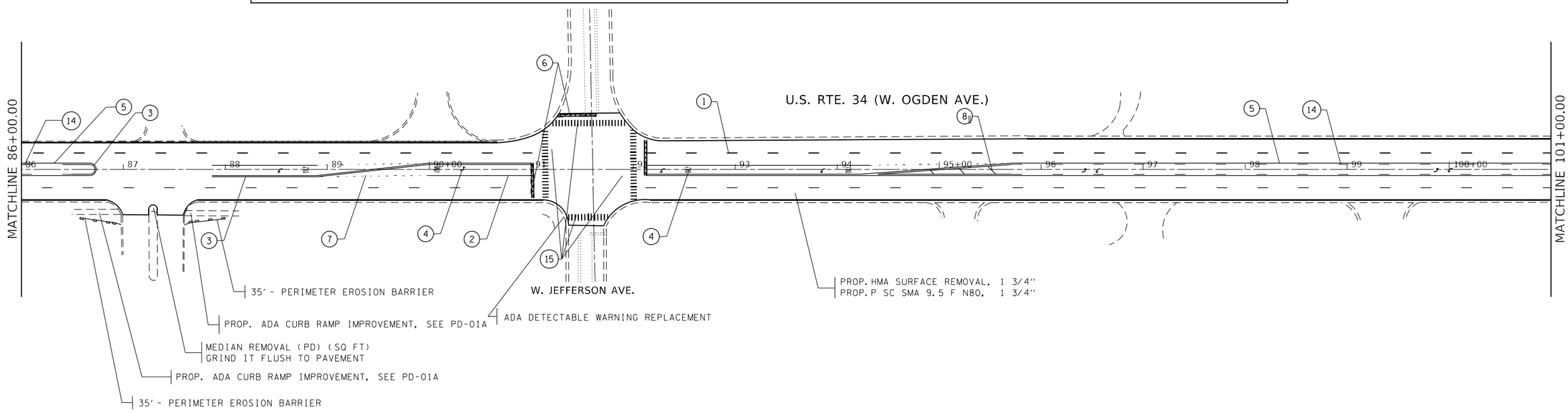


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|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - | **STATE OF ILLINOIS**<br>**DEPARTMENT OF TRANSPORTATION** |
| | DRAWN - | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - | |

**ROADWAY PLAN**
**US 34 (OGDEN AVE) (BEAUMONT DR TO AURORA AVE)**

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

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP-0311-22-RS | DUPAGE | 38 | 12 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |

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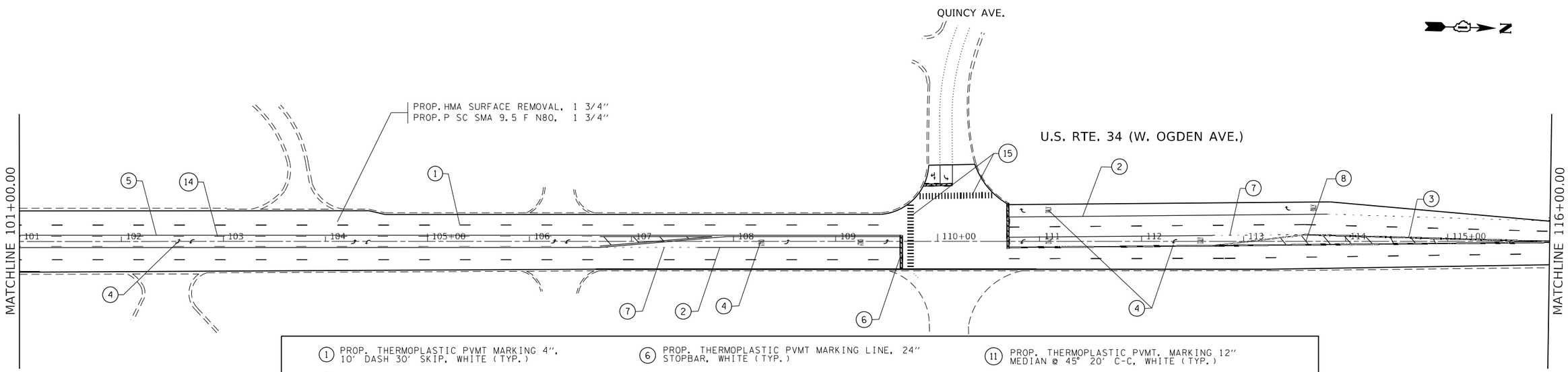


| | |
|---|---|
| (1) | PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, WHITE (TYP.) |
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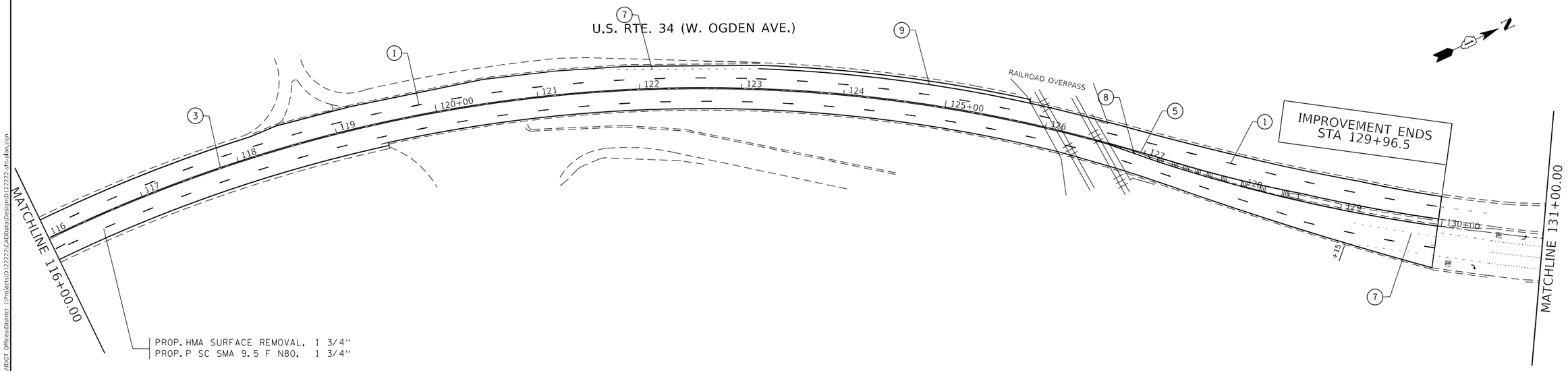




| | | | |
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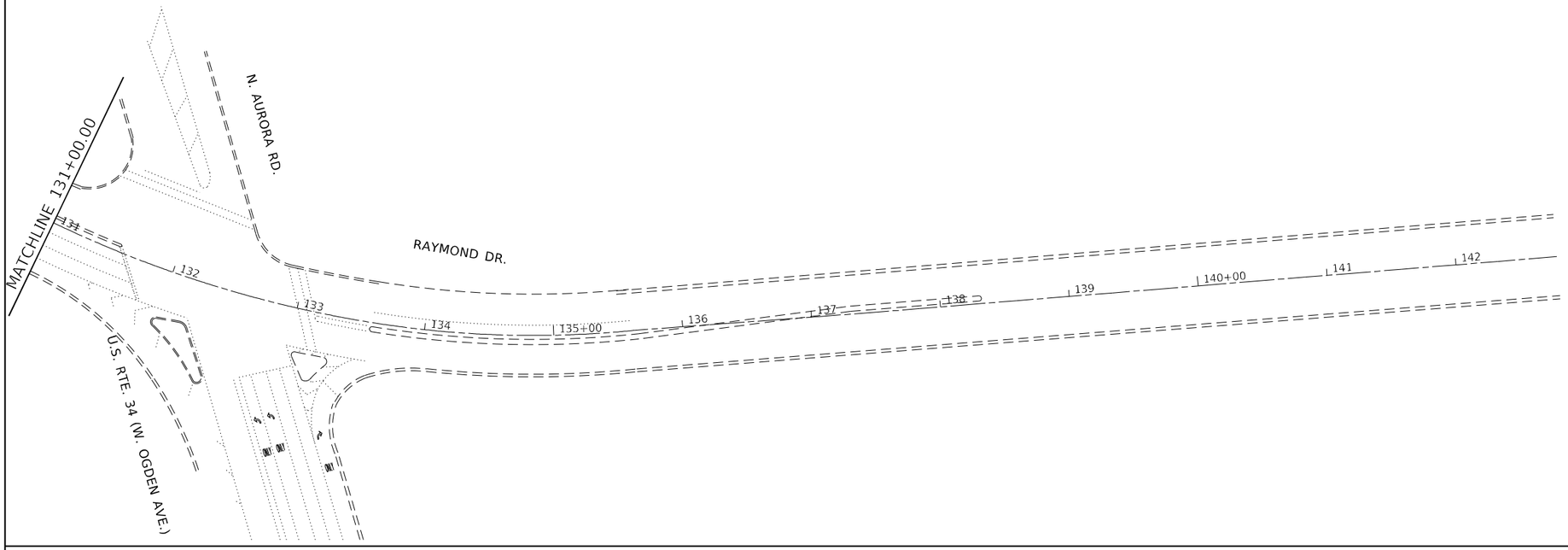
| USER NAME = Wendy.Ardonayre | DESIGNED - | REVISED - | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - | |

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

**ROADWAY PLAN**
**US 34 (OGDEN AVE) (BEAUMONT DR TO AURORA AVE)**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 13 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |

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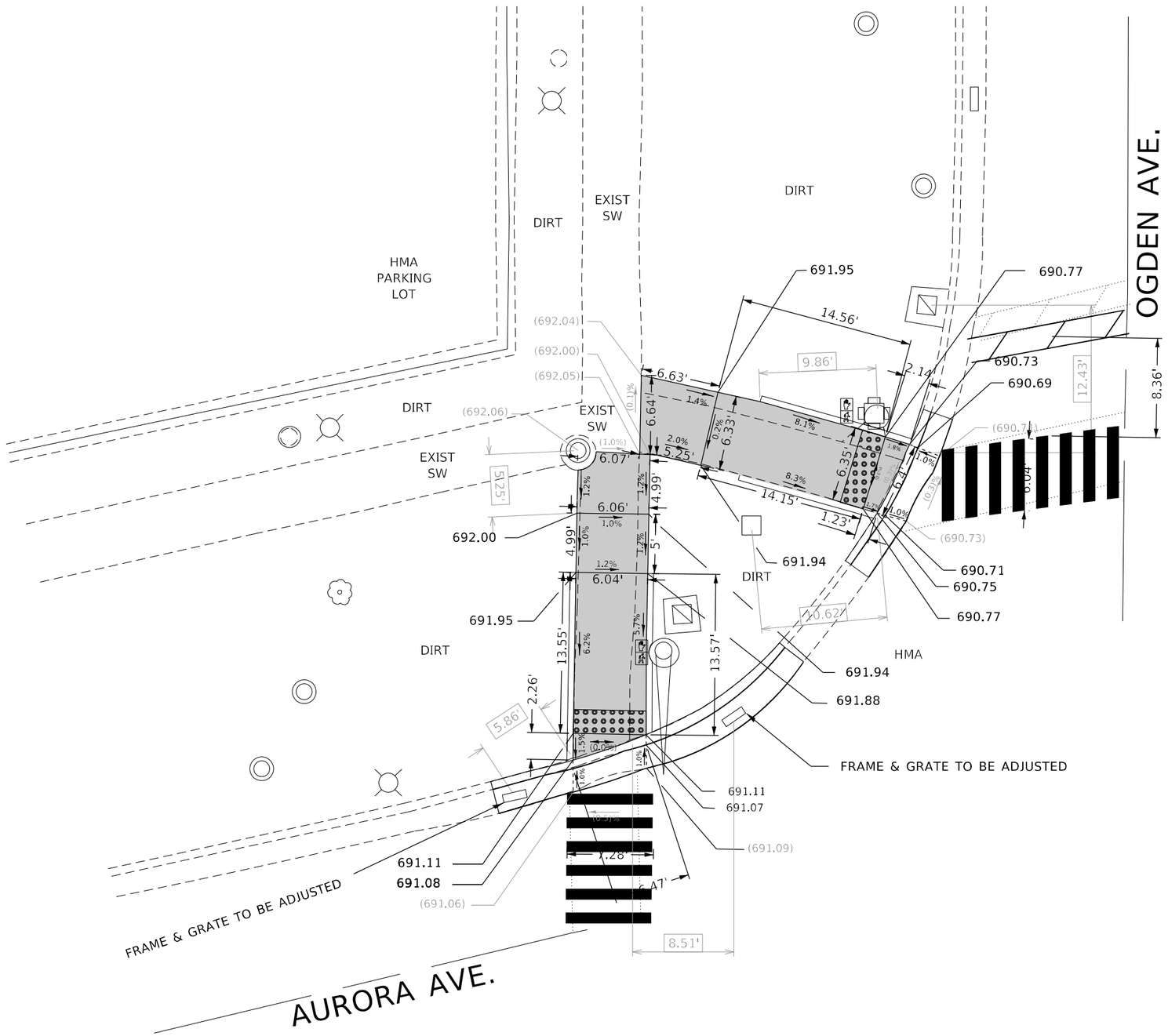
FILE NAME: pw:\\dot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1222222\C4D\Data\Design\D1222222-sht-plan.dgn

| | | | |
|---|---|---|---|
| USER NAME = Wendy.Ardonayre | DESIGNED - | REVISED - | **STATE OF ILLINOIS**<br>**DEPARTMENT OF TRANSPORTATION** |
| | DRAWN - | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - | |

**ROADWAY PLAN**
**US 34 (OGDEN AVE) (BEAUMONT DR TO AURORA AVE)**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 14 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |




REFERENCE BENCHMARK ELEV 691.66

BENCHMARK : CUT RECTANGLE IN EAST FACE OF TRAFFIC SIGNAL BASE

LOCATION : NORTH WEST CORNER OF OGDEN AVE. AND AURORA AVE.

## LEGEND

| | |
|---|---|
| xx.xx' | EXISTING LENGTH |
| ═══ | PROPOSED SIDE CURB |
| ( ) | EXISTING ELEVATION/SLOPE |
| | PROPOSED SIDEWALK |
| | DETECTABLE WARNINGS |
| | SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD |

| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - PLP | 01/10/2018 |
| | DRAWN - | REVISED - | |
| PLOT SCALE = 10.0000 ' / in. | CHECKED - | REVISED - | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - | |

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

**SIDEWALK DETAIL PLAN**
**US 34 (OGDEN AVE) (BEAUMONT DR TO AURORA AVE)**

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

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 15 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS | FED. AID PROJECT | | |

MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:PWIDOT Documents\IDOT Office of District 1\Projects\D122222\CADData\Design\D122222-sh-detailk.dgn

## REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN PUSH-BUTTON
2 EACH PEDESTRIAN SIGNAL POST

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

CONTRACTOR SHALL PERFORM WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE PEDESTRIAN EQUIPMENT IS NOT OPERATIONAL.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE APS EQUIPMENT WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.

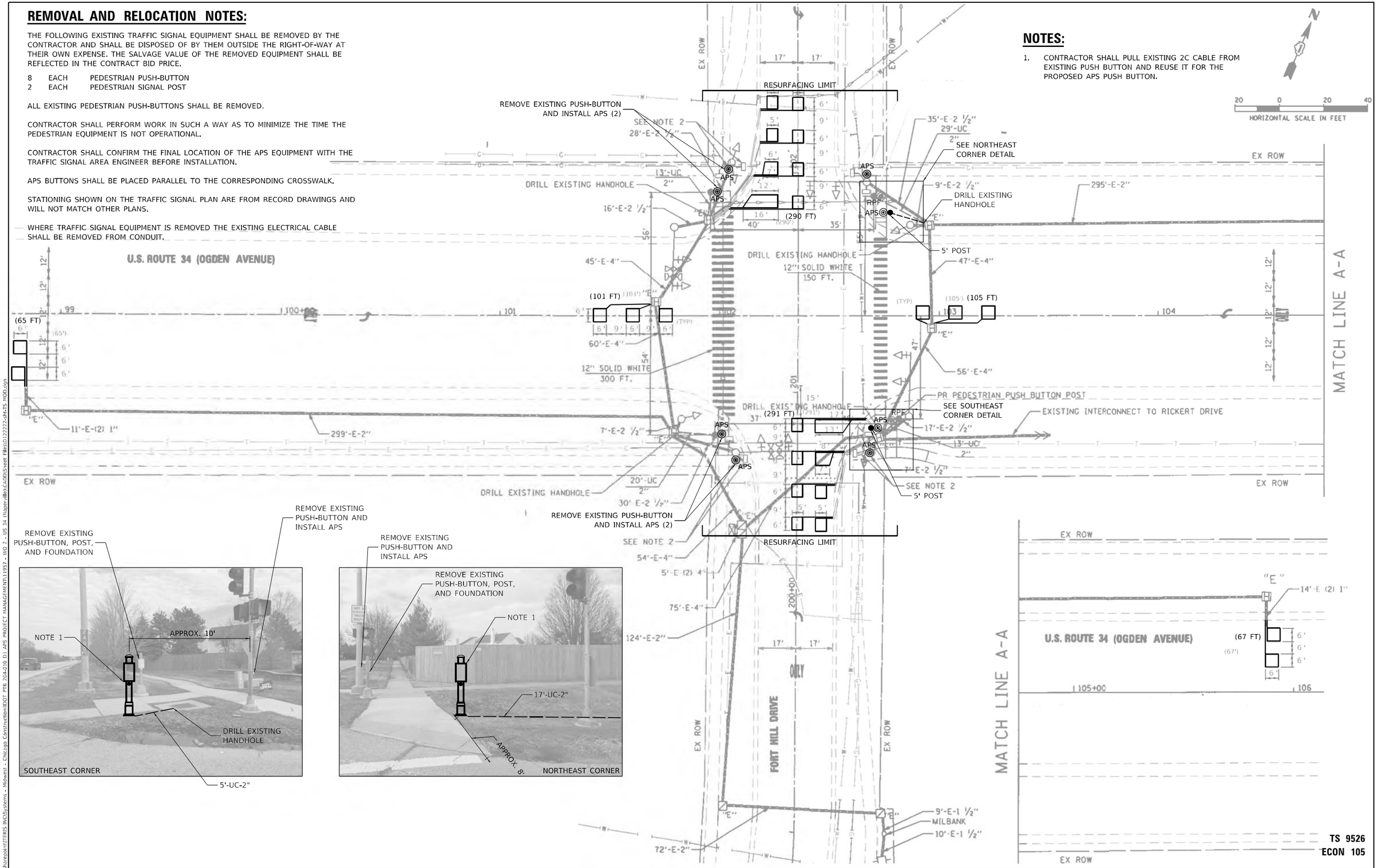
APS BUTTONS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.

STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.

WHERE TRAFFIC SIGNAL EQUIPMENT IS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.

## NOTES:

1. CONTRACTOR SHALL PULL EXISTING 2C CABLE FROM EXISTING PUSH BUTTON AND REUSE IT FOR THE PROPOSED APS PUSH BUTTON.










TS 9526
ECON 105

| | | | | |
|---|---|---|---|---|
| iteris | USER NAME = bfunk | DESIGNED - BF | REVISED - | |
| | | DRAWN - BF | REVISED - | |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - AG | REVISED - | |
| | PLOT DATE = 8/17/2023 | DATE - 8/17/23 | REVISED - | |

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

**APS AND DETECTOR LOOP INSTALLATION PLAN**
**US ROUTE 34 (OGDEN AVENUE) AND FORT HILL DRIVE**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 16 |
| | | CONTRACT NO. 62T65 | | |
| | | ILLINOIS | FED. AID PROJECT | |

MODEL: Default
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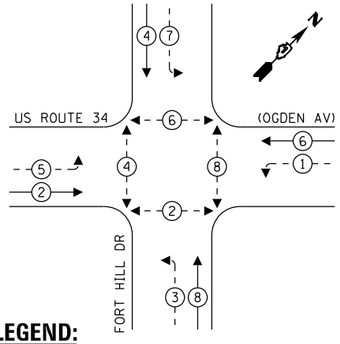
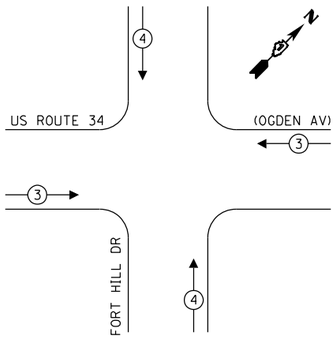
## EXISTING CONTROLLER SEQUENCE




## LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

## EMERGENCY VEHICLE PREEMPTION SEQUENCE



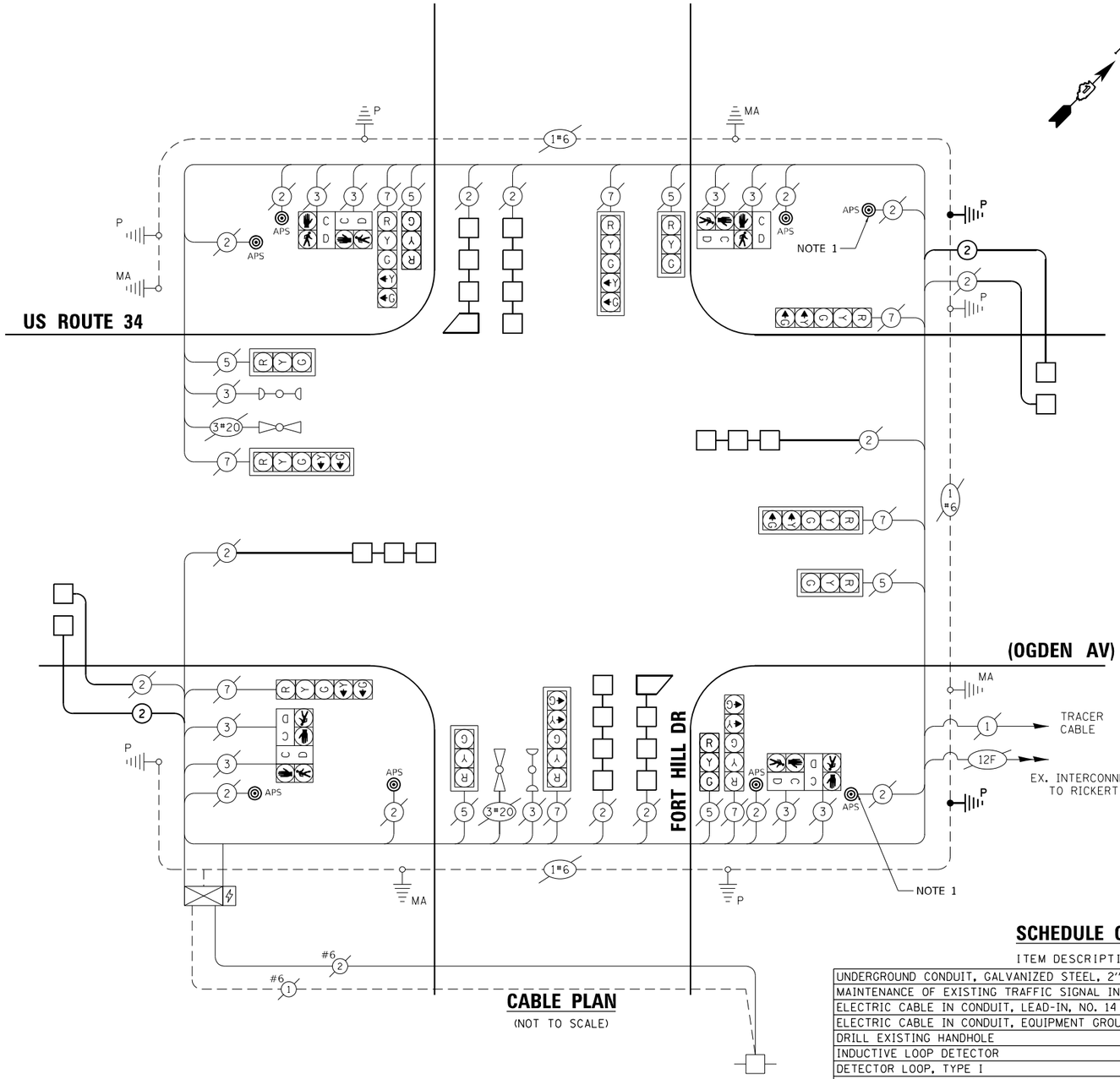

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

| TYPE | NO. OF LAMPS | LED WATTAGE | % OPERATION | TOTAL WATTAGE |
|---|---|---|---|---|
| SIGNAL (RED) | 14 | 11 | 50 | 77.0 |
| (YELLOW) | 14 | 20 | 5 | 14.0 |
| (GREEN) | 14 | 12 | 45 | 75.6 |
| PERMISSIVE ARROW | 16 | 10 | 10 | 16.0 |
| PED. SIGNAL | 8 | 10 | 100 | 80.0 |
| CONTROLLER | 1 | 100 | 100 | 100.0 |
| UPS | 1 | 25 | 100 | 25.0 |
| VIDEO SYSTEM | - | - | - | - |
| BLANK-OUT SIGN | - | - | - | - |
| FLASHER | - | - | - | - |
| STREET NAME SIGN | - | - | - | - |
| LUMINAIRE | - | - | - | - |
| | | | TOTAL = | 387.6 |

ENERGY COSTS - BILLED TO:

CITY OF NAPERVILLE
400 S. EAGLE STREET
NAPERVILLE, IL 60540

ENERGY SUPPLY - CONTACT:
PHONE: 866-639-3532
COMPANY: COMED




## CABLE PLAN

(NOT TO SCALE)

## NOTES:

1. CONTRACTOR SHALL PULL EXISTING 2C CABLE FROM EXISTING PUSH BUTTON AND REUSE IT FOR THE PROPOSED APS PUSH BUTTON.

## SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNIT | QTY. |
|---|---|---|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 28 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 898 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 45 |
| DRILL EXISTING HANDHOLE | EACH | 2 |
| INDUCTIVE LOOP DETECTOR | EACH | 2 |
| DETECTOR LOOP, TYPE I | FOOT | 919 |
| REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 74 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 2 |
| PEDESTRIAN SIGNAL POST, 5 FT. | EACH | 2 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 8 |
| CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER | FOOT | 8 |
| RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1 | EACH | 1 |

**TS 9526**
**ECON 105**

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - CNCcop Construction\IDOT PTB 204-010 D1 APS PROJECT MANAGEMENT\11937 - WO 2 - US 34 (Naperville)\CADD\Sheet Files\Fort Hill Dr_Cable_Sht1.dgn

iteris

| | | | |
|---|---|---|---|
| USER NAME = bfunk | DESIGNED - KSB | REVISED - | |
| | DRAWN - KSB | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - BF | REVISED - | |
| PLOT DATE = 8/17/2023 | DATE - 8/17/23 | REVISED - | |

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

**TRAFFIC SIGNAL CABLE PLAN**
**US ROUTE 34 (OGDEN AVENUE) AND FORT HILL DRIVE**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 17 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS | FED. AID PROJECT | | |

## REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN PUSH-BUTTON

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

CONTRACTOR SHALL PERFORM WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE PEDESTRIAN EQUIPMENT IS NOT OPERATIONAL.

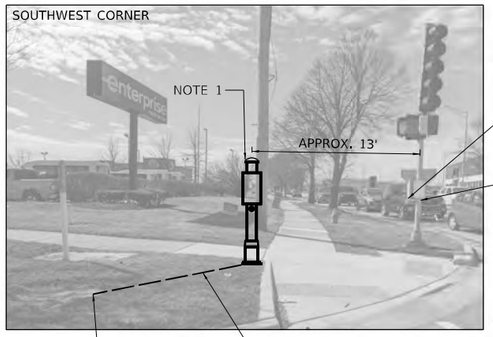
CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE APS EQUIPMENT WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.

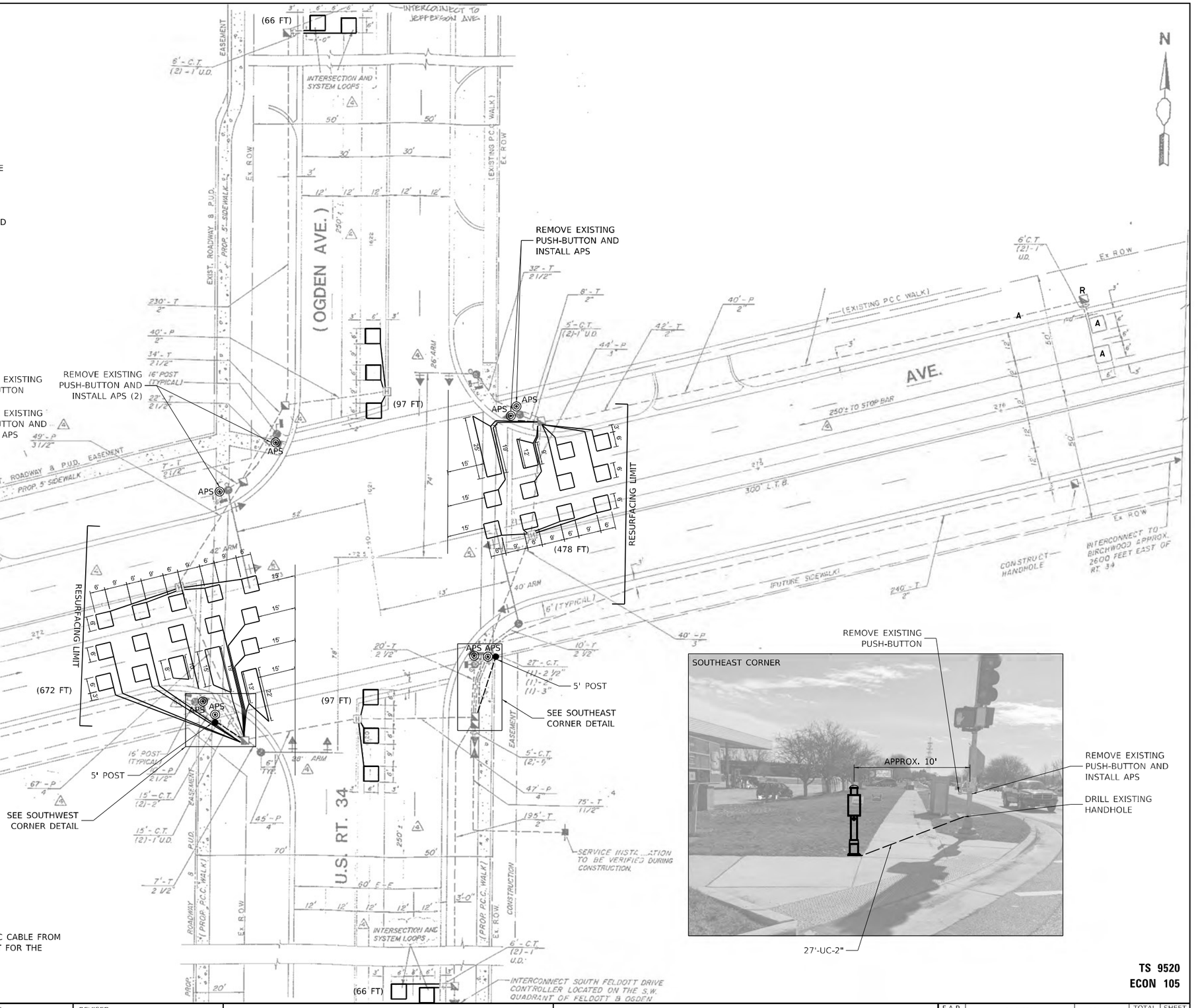
APS BUTTONS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.

STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.

WHERE TRAFFIC SIGNAL EQUIPMENT IS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.

SOUTHWEST CORNER




SOUTHEAST CORNER




## NOTES:

1. CONTRACTOR SHALL PULL EXISTING 2C CABLE FROM EXISTING PUSH BUTTON AND REUSE IT FOR THE PROPOSED APS PUSH BUTTON.

**TS 9520**
**ECON 105**

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Chicago Construction\IDOT PTB 204-010 D1 APS PROJECT MANAGEMENT\11957 - WO 2 - US 34 (Naperville)\CADD\Sheet Files\0122222-ITS MOD.dgn

iteris

| | | | |
|---|---|---|---|
| USER NAME = bfunk | DESIGNED - BF | REVISED - | |
| | DRAWN - BF | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - AG | REVISED - | |
| PLOT DATE = 8/17/2023 | DATE - 8/17/23 | REVISED - | |

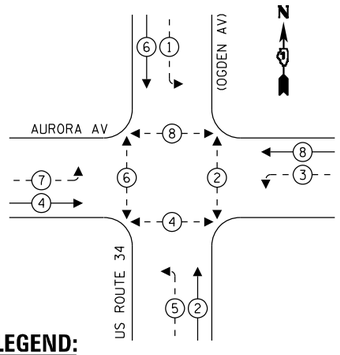
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**APS AND DETECTOR LOOP INSTALLATION PLAN**
**US ROUTE 34 (OGDEN AVENUE) AND AURORA AVENUE**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 18 |
| | | CONTRACT NO. 62T65 | | |
| | | ILLINOIS FED. AID PROJECT | | |

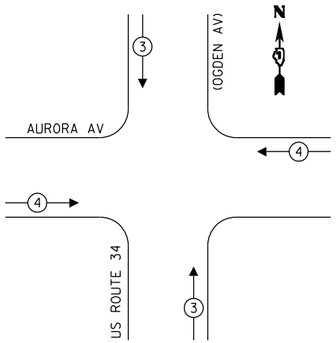
## EXISTING CONTROLLER SEQUENCE




## LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

## EMERGENCY VEHICLE PREEMPTION SEQUENCE

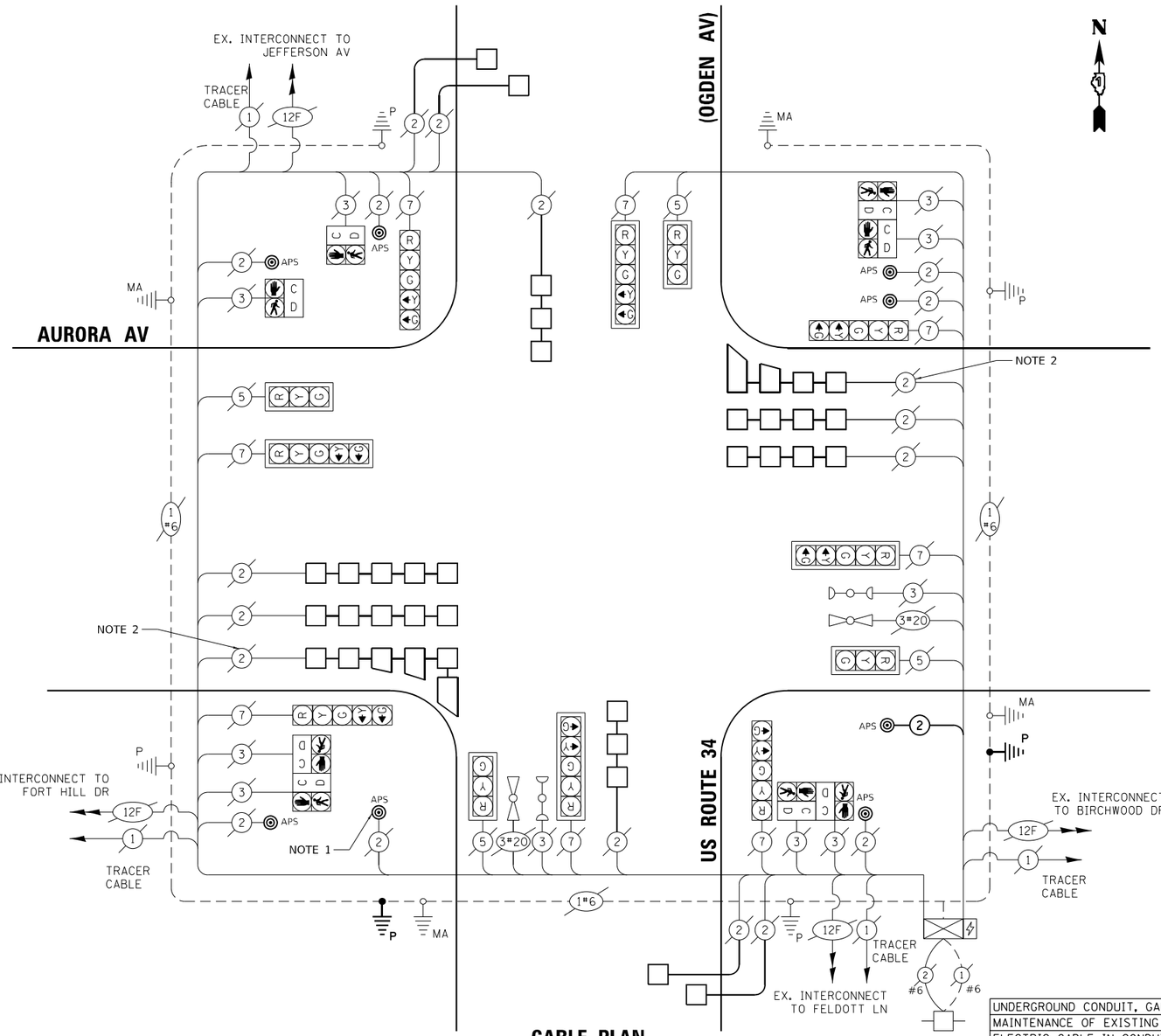



| TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS | | | | |
|---|---|---|---|---|
| TYPE | NO. OF LAMPS | LED WATTAGE | % OPERATION | TOTAL WATTAGE |
| SIGNAL (RED) | 12 | 11 | 50 | 66.0 |
| (YELLOW) | 12 | 20 | 5 | 12.0 |
| (GREEN) | 12 | 12 | 45 | 64.8 |
| PERMISSIVE ARROW | 16 | 10 | 10 | 16.0 |
| PED. SIGNAL | 8 | 10 | 100 | 80.0 |
| CONTROLLER | 1 | 100 | 100 | 100.0 |
| UPS | 1 | 25 | 100 | 25.0 |
| VIDEO SYSTEM | - | - | - | - |
| BLANK-OUT SIGN | - | - | - | - |
| FLASHER | - | - | - | - |
| STREET NAME SIGN | - | - | - | - |
| LUMINAIRE | - | - | - | - |
| | | | TOTAL = | 363.8 |

ENERGY COSTS - BILLED TO:

CITY OF NAPERVILLE
400 S. EAGLE STREET
NAPERVILLE, IL 60540

ENERGY SUPPLY - CONTACT: _____
PHONE: 866-639-3532
COMPANY: COMED




## CABLE PLAN

(NOT TO SCALE)

## NOTES:

1. CONTRACTOR SHALL PULL EXISTING 2C CABLE FROM EXISTING PUSH BUTTON AND REUSE IT FOR THE PROPOSED APS PUSH BUTTON.
2. CONTRACTOR SHALL PULL EXISTING LOOP LEAD-IN CABLE FROM ABANDONED FAR BACK DETECTOR AND REUSE FOR PROPOSED UPFRONT DETECTION.

## SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNIT | QTY. |
|---|---|---|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 41 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 64 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 54 |
| DRILL EXISTING HANDHOLE | EACH | 2 |
| DETECTOR LOOP, TYPE I | FOOT | 1476 |
| REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 24 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 2 |
| PEDESTRIAN SIGNAL POST, 5 FT. | EACH | 2 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 8 |
| CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER | FOOT | 8 |
| RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1 | EACH | 1 |

**TS 9520**
**ECON 105**

iteris

| | | |
|---|---|---|
| USER NAME = bfunk | DESIGNED - KSB | REVISED - |
| | DRAWN - KSB | REVISED - |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - BF | REVISED - |
| PLOT DATE = 8/7/2023 | DATE - 8/7/23 | REVISED - |

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

**TRAFFIC SIGNAL CABLE PLAN**
**US ROUTE 34 (OGDEN AVENUE) AND AURORA AVENUE**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 19 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS | FED. AID PROJECT | | |

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Civilcop Construction\IDOT PTB 204-010 D1 APS PROJECT MANAGEMENT\11957 - WO 2 - US 34 (Naperville)\CADD\Sheet Files\Aurora Av_Cable_SHT.dgn

SEE REMOVAL AND LOCATION NOTES ON JEFFERSON AVENUE CABLE PLAN

SOUTHWEST CORNER

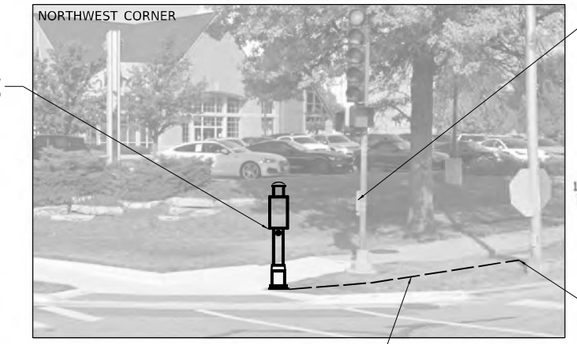
REMOVE EXISTING PUSH-BUTTON

INSTALL APS BUTTON (2)

DRILL EXISTING HANDHOLE

25'-UC-2"

NORTHWEST CORNER



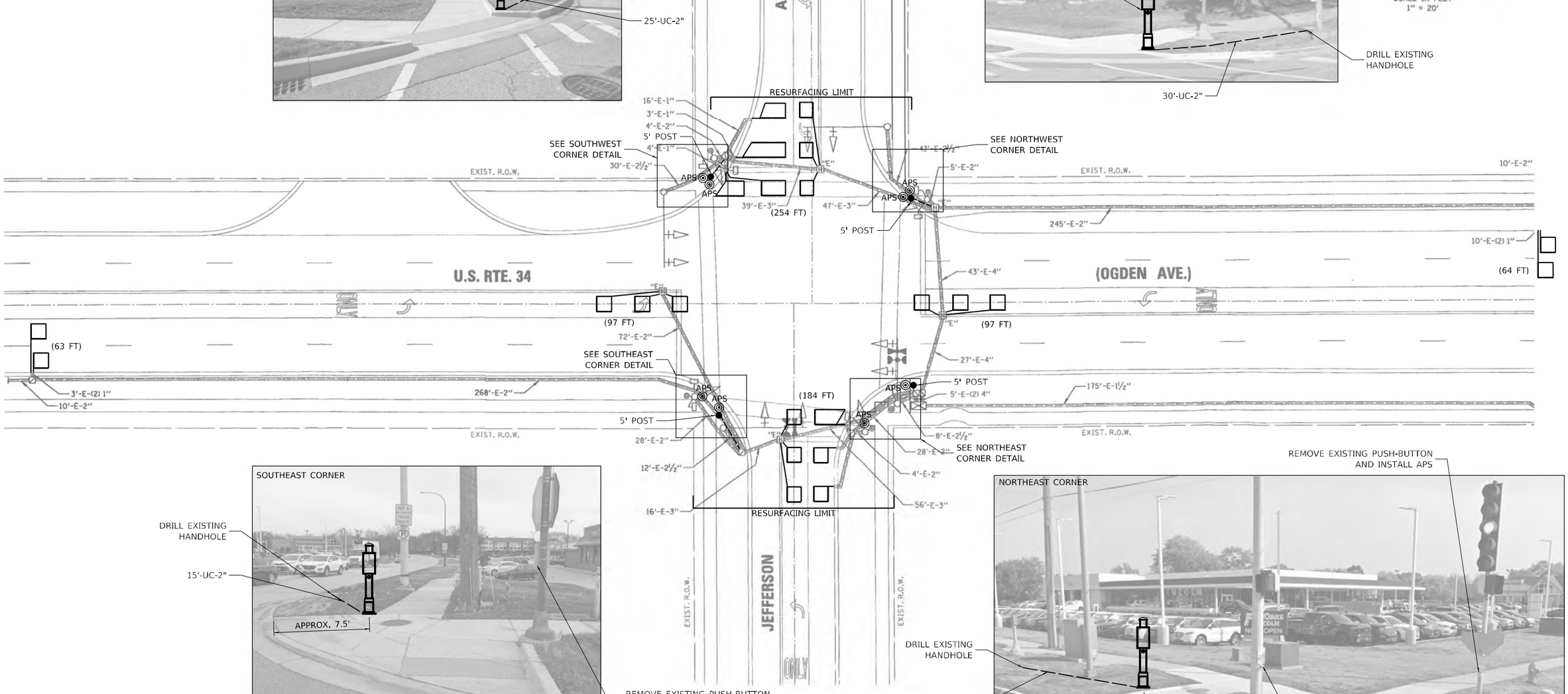
INSTALL APS BUTTON (2)

REMOVE EXISTING PUSH-BUTTON

DRILL EXISTING HANDHOLE

30'-UC-2"

10 0 10 20 30 40 50
SCALE IN FEET
1" = 20'




SOUTHEAST CORNER



DRILL EXISTING HANDHOLE

15'-UC-2"

APPROX. 7.5'

REMOVE EXISTING PUSH-BUTTON AND INSTALL APS. ROTATE TO PARALLEL TO US 34 CROSSING.

REMOVE EXISTING PUSH-BUTTON AND INSTALL APS

NORTHEAST CORNER



DRILL EXISTING HANDHOLE

19'-UC-2"

APPROX. 8'

REMOVE EXISTING PUSH-BUTTON

**TS 9552**
**ECON 105**

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS INC\Systems - Midwest - Chicago Construction\IDOT PTB 204-010 D1 APS PROJECT MANAGEMENT\11957 - WO 2 - US 34 (Naperville)\CADD\Sheet Files\D122222-ilnt-TS MOD.dgn

iteris

| | | | |
|---|---|---|---|
| USER NAME = bfunk | DESIGNED - BF | REVISED - | |
| | DRAWN - BF | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - AG | REVISED - | |
| PLOT DATE = 8/17/2023 | DATE - 8/17/23 | REVISED - | |

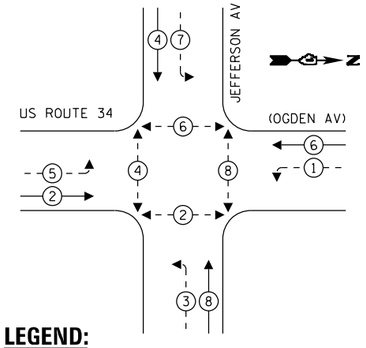
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**APS AND DETECTOR LOOP INSTALLATION PLAN**
**US ROUTE 34 (OGDEN AVENUE) AND JEFFERSON AVENUE**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 20 |
| | | CONTRACT NO. 62T65 | | |
| | | ILLINOIS | FED. AID PROJECT | |

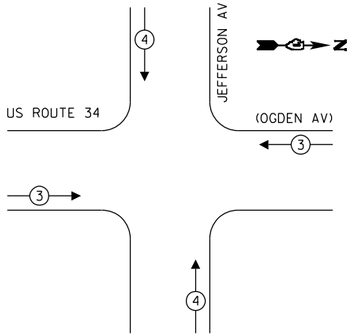
## EXISTING CONTROLLER SEQUENCE




## LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

## EMERGENCY VEHICLE PREEMPTION SEQUENCE



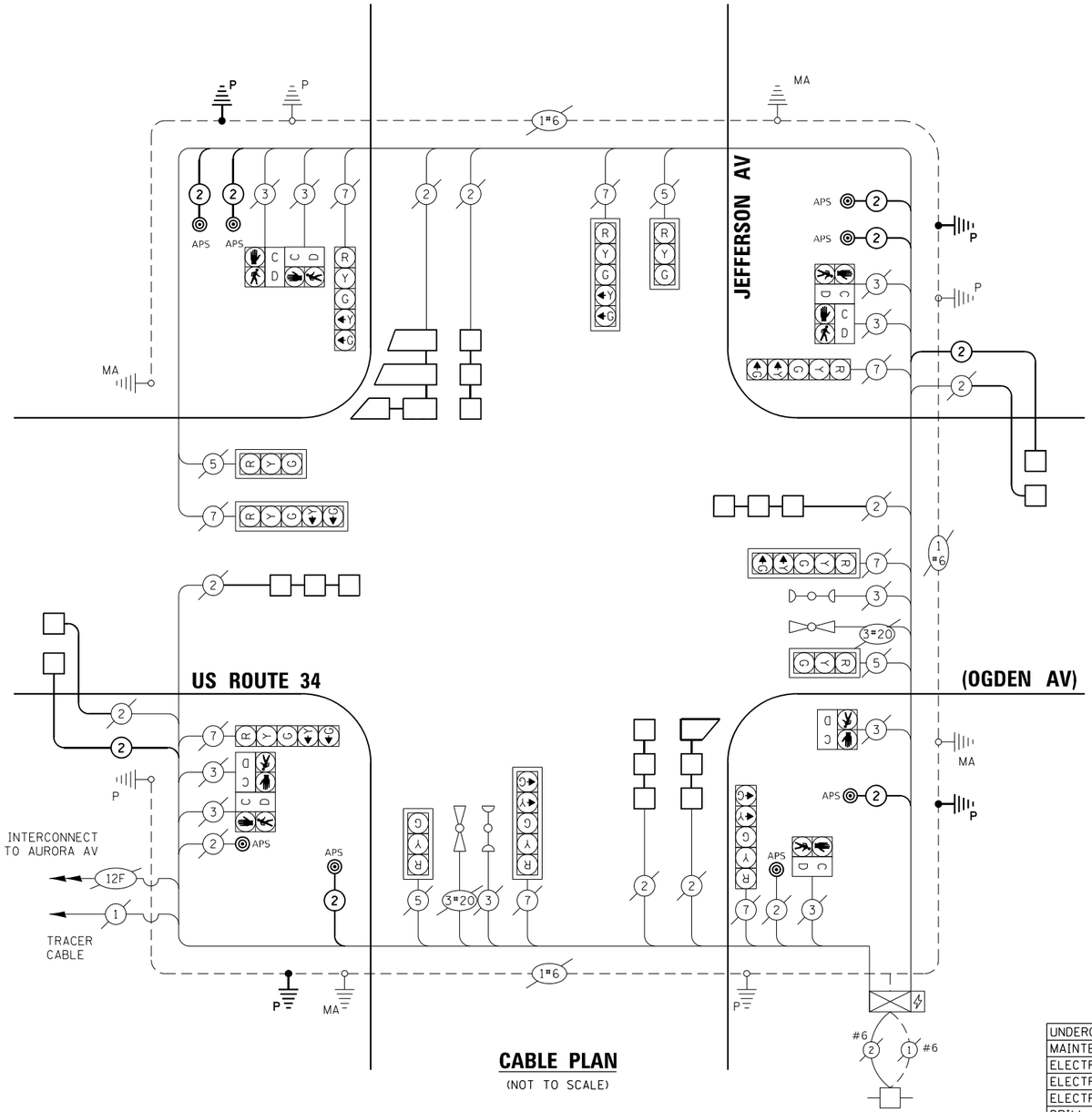

| TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS | | | | |
|---|---|---|---|---|
| TYPE | NO. OF LAMPS | LED WATTAGE | % OPERATION | TOTAL WATTAGE |
| SIGNAL (RED) | 12 | 11 | 50 | 66.0 |
| (YELLOW) | 12 | 20 | 5 | 12.0 |
| (GREEN) | 12 | 12 | 45 | 64.8 |
| PERMISSIVE ARROW | 16 | 10 | 10 | 16.0 |
| PED. SIGNAL | 8 | 10 | 100 | 80.0 |
| CONTROLLER | 1 | 100 | 100 | 100.0 |
| UPS | 1 | 25 | 100 | 25.0 |
| VIDEO SYSTEM | - | - | - | - |
| BLANK-OUT SIGN | - | - | - | - |
| FLASHER | - | - | - | - |
| STREET NAME SIGN | - | - | - | - |
| LUMINAIRE | - | - | - | - |
| | | | TOTAL = | 363.8 |

ENERGY COSTS - BILLED TO:

CITY OF NAPERVILLE
400 S. EAGLE STREET
NAPERVILLE, IL 60540

ENERGY SUPPLY - CONTACT:

PHONE: 866-639-3532
COMPANY: COMED




## CABLE PLAN

(NOT TO SCALE)

N

## REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN PUSH-BUTTON

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

CONTRACTOR SHALL PERFORM WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE PEDESTRIAN EQUIPMENT IS NOT OPERATIONAL.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE APS EQUIPMENT WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.

APS BUTTONS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.

STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.

WHERE TRAFFIC SIGNAL EQUIPMENT IS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.

## SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNIT | QTY. |
|---|---|---|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 101 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 927 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 733 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 133 |
| DRILL EXISTING HANDHOLE | EACH | 4 |
| INDUCTIVE LOOP DETECTOR | EACH | 2 |
| DETECTOR LOOP, TYPE I | FOOT | 759 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 5 FT. | EACH | 4 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 8 |
| CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER | FOOT | 16 |
| RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1 | EACH | 1 |

**TS 9552**
**ECON 105**

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iteris

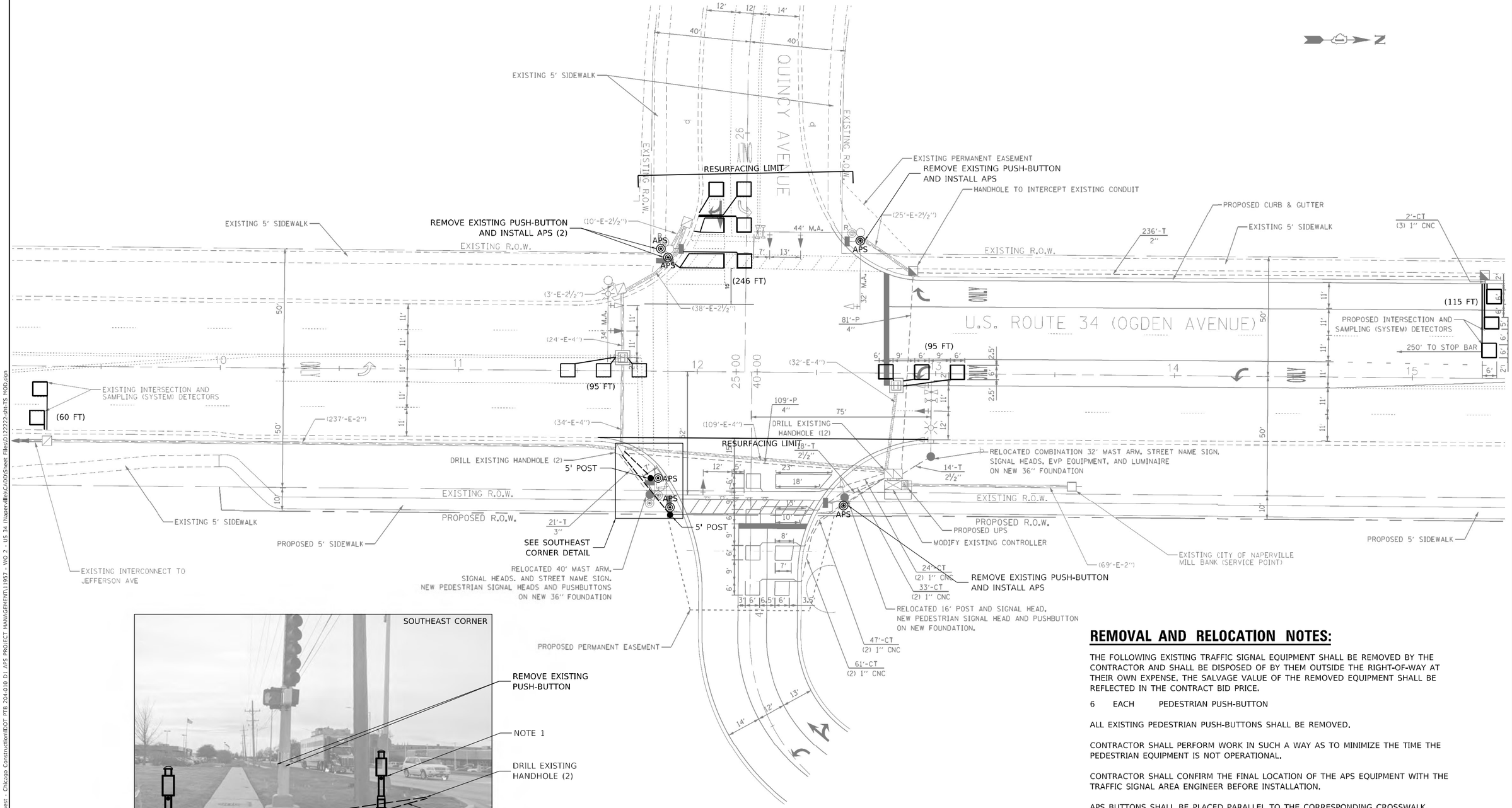
| | | | |
|---|---|---|---|
| USER NAME = bfunk | DESIGNED - KSB | REVISED - | |
| | DRAWN - KSB | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - BF | REVISED - | |
| PLOT DATE = 8/17/2023 | DATE - 8/17/23 | REVISED - | |

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

**TRAFFIC SIGNAL CABLE PLAN**
**US ROUTE 34 (OGDEN AVENUE) AND JEFFERSON AVENUE**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 21 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS | FED. AID PROJECT | | |







## NOTES:

1. CONTRACTOR SHALL PULL EXISTING 2C CABLE FROM EXISTING PUSH BUTTON AND REUSE IT FOR THE PROPOSED APS PUSH BUTTON.

## REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

6 EACH PEDESTRIAN PUSH-BUTTON

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

CONTRACTOR SHALL PERFORM WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE PEDESTRIAN EQUIPMENT IS NOT OPERATIONAL.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE APS EQUIPMENT WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.

APS BUTTONS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.

STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.

WHERE TRAFFIC SIGNAL EQUIPMENT IS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.

**TS 9527**
**ECON 105**

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iteris

| | | | |
|---|---|---|---|
| USER NAME = bfunk | DESIGNED - BF | REVISED - | |
| | DRAWN - BF | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - AG | REVISED - | |
| PLOT DATE = 8/17/2023 | DATE - 8/17/23 | REVISED - | |

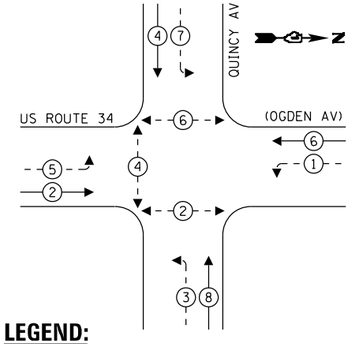
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**APS AND DETECTOR LOOP INSTALLATION PLAN**
**US ROUTE 34 (OGDEN AVENUE) AND QUINCY AVENUE**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 22 |
| | | CONTRACT NO. 62T65 | | |
| | | ILLINOIS | FED. AID PROJECT | |

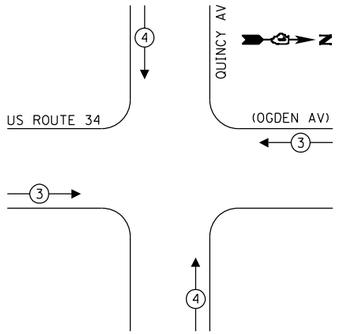
## EXISTING CONTROLLER SEQUENCE




### LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

## EMERGENCY VEHICLE PREEMPTION SEQUENCE

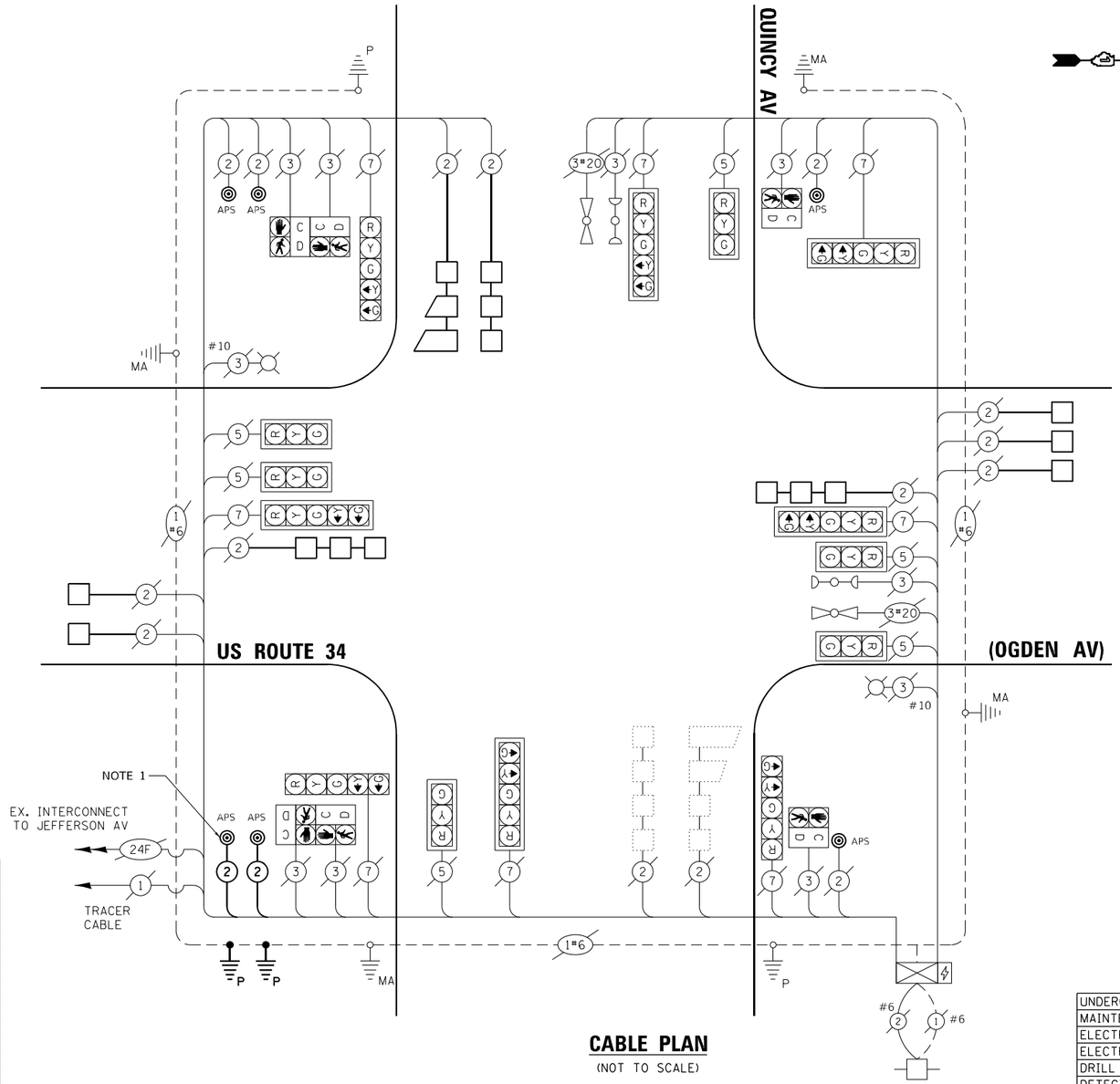



| TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS | | | | |
|---|---|---|---|---|
| TYPE | NO. OF LAMPS | LED WATTAGE | % OPERATION | TOTAL WATTAGE |
| SIGNAL (RED) | 14 | 11 | 50 | 77.0 |
| (YELLOW) | 14 | 20 | 5 | 14.0 |
| (GREEN) | 14 | 12 | 45 | 75.6 |
| PERMISSIVE ARROW | 16 | 10 | 10 | 16.0 |
| PED. SIGNAL | 6 | 10 | 100 | 60.0 |
| CONTROLLER | 1 | 100 | 100 | 100.0 |
| UPS | 1 | 25 | 100 | 25.0 |
| VIDEO SYSTEM | - | - | - | - |
| BLANK-OUT SIGN | - | - | - | - |
| FLASHER | - | - | - | - |
| STREET NAME SIGN | - | - | - | - |
| LUMINAIRE | 2 | 240 | 50 | 240 |
| | | | TOTAL = | 607.6 |

ENERGY COSTS - BILLED TO:

CITY OF NAPERVILLE
400 S. EAGLE STREET
NAPERVILLE, IL 60540

ENERGY SUPPLY - CONTACT:
PHONE: 866-639-3532
COMPANY: COMED




## CABLE PLAN

(NOT TO SCALE)

## NOTES:

1. CONTRACTOR SHALL PULL EXISTING 2C CABLE FROM EXISTING PUSH BUTTON AND REUSE IT FOR THE PROPOSED APS PUSH BUTTON.

## SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNIT | QTY. |
|---|---|---|
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 56 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 181 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 72 |
| DRILL EXISTING HANDHOLE | EACH | 2 |
| DETECTOR LOOP, TYPE I | FOOT | 611 |
| REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 36 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| PEDESTRIAN SIGNAL POST, 5 FT. | EACH | 2 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 6 |
| CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER | FOOT | 8 |
| RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1 | EACH | 1 |

**TS 9527**
**ECON 105**

iteris

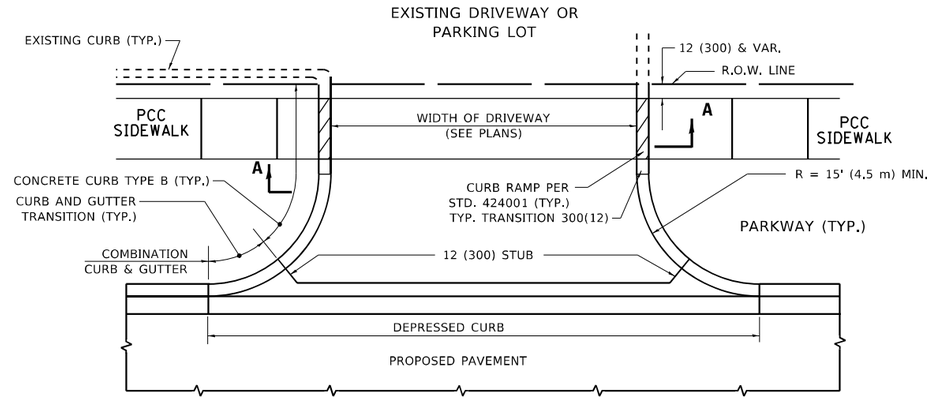
| | | |
|---|---|---|
| USER NAME = bfunk | DESIGNED - KSB | REVISED - |
| | DRAWN - KSB | REVISED - |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - BF | REVISED - |
| PLOT DATE = 8/7/2023 | DATE - 8/7/23 | REVISED - |

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

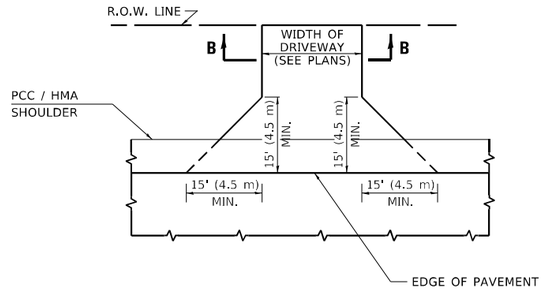
**TRAFFIC SIGNAL CABLE PLAN**
**US ROUTE 34 (OGDEN AVENUE) AND QUINCY AVENUE**

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

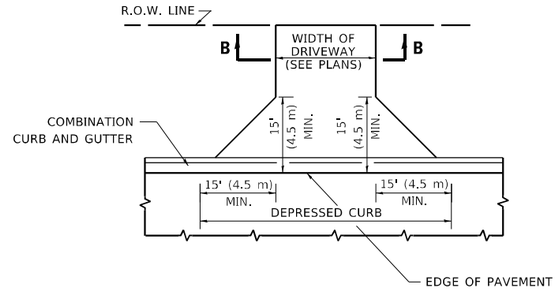
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 0311 | FAP 0311 22 RS | DUPAGE | 38 | 23 |
| | | CONTRACT NO. 62T65 | | |
| | ILLINOIS | FED. AID PROJECT | | |



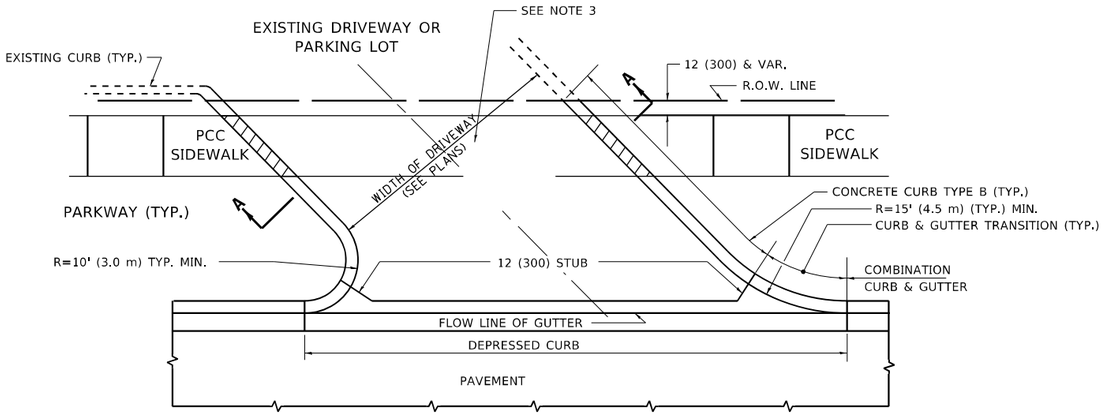

**WITH CONCRETE CURB, TYPE B**



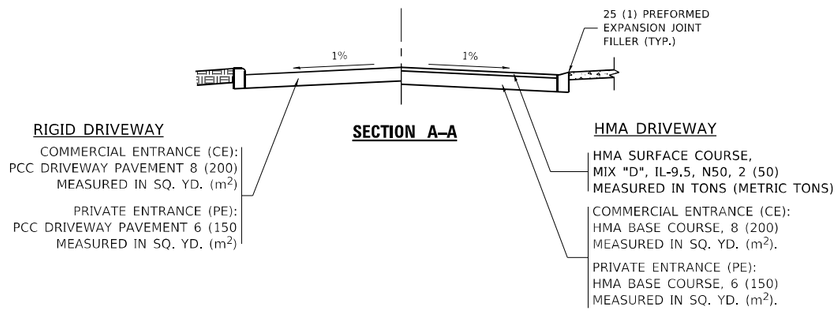

**ADJACENT TO PCC /HMA SHOULDER**

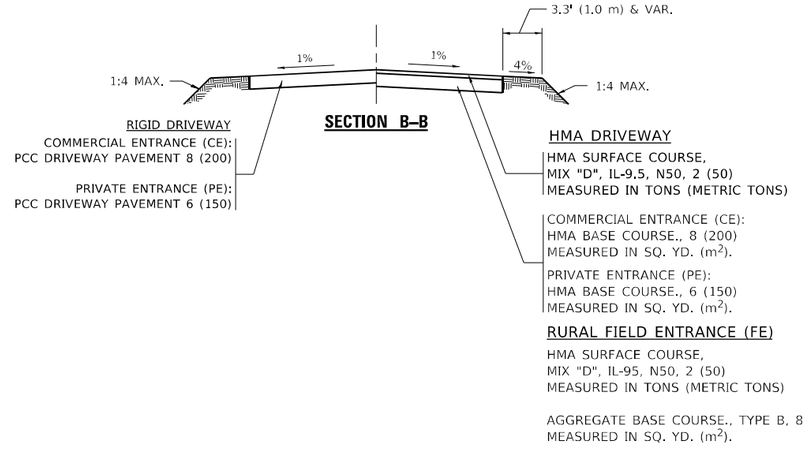



**ADJACENT TO CURB AND GUTTER**




**WITH CONCRETE CURB, TYPE B**




## GENERAL NOTES

1. 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.

2. 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.

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



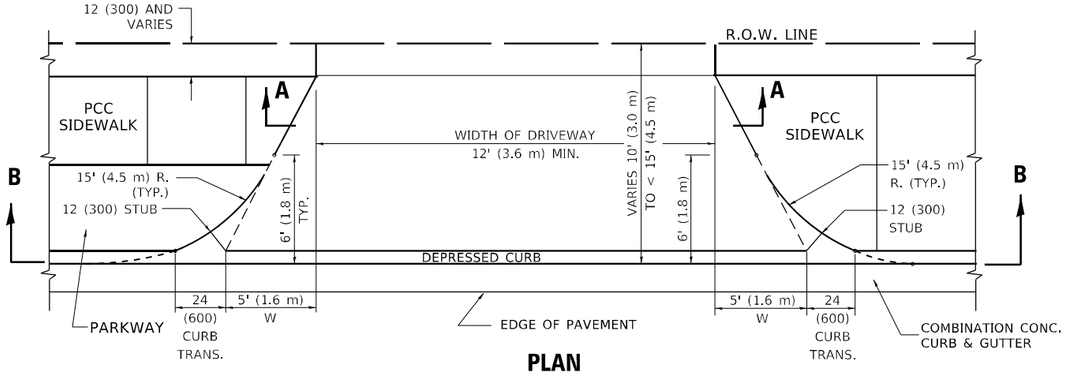
| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - R. SHAH | REVISED - R. BORO 06-11-08 | |
| | DRAWN - | REVISED - R. BORO 09-06-11 | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - K. SMITH 08-28-19 | |
| PLOT DATE = 8/22/2023 | DATE - 11-04-95 | REVISED - K. SMITH 11-18-22 | |

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

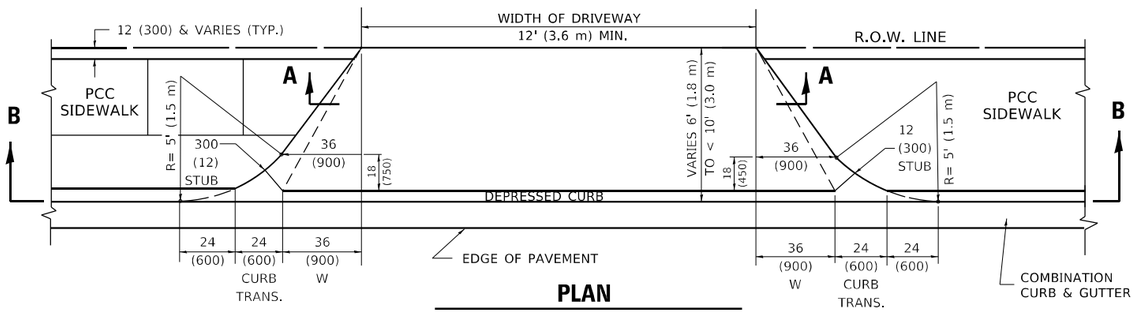
**DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥15'(4.5m)**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

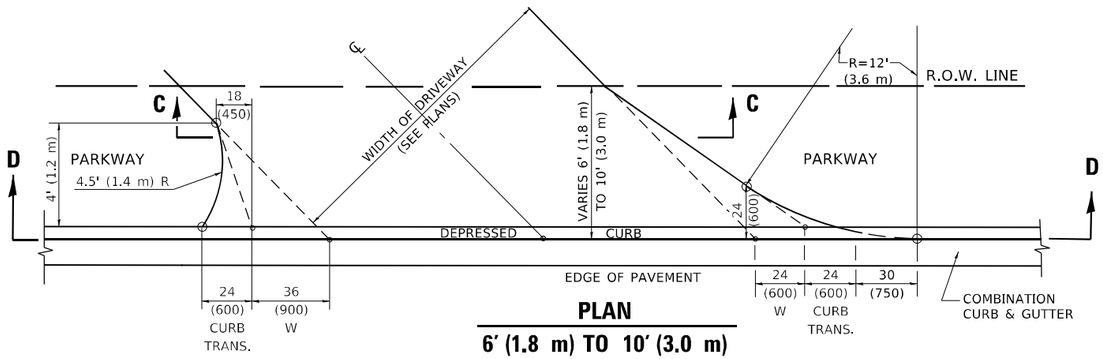
| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 24 |
| | **BD400–01 (BD–01)** | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |



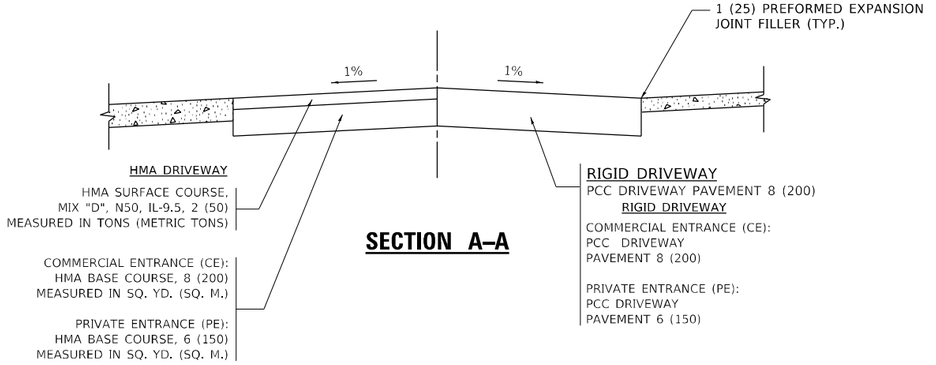

## PLAN
### 10' (3.0 m) TO < 15' (4.5 m)



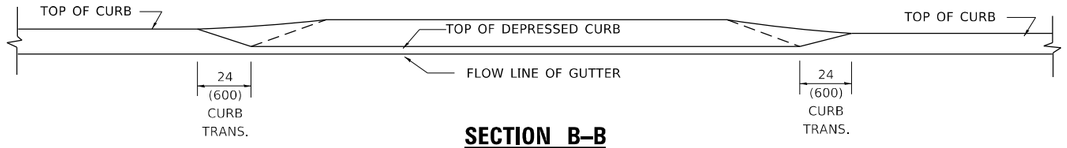

## PLAN
### 6' (1.8 m) TO < 10' (3.0 m)



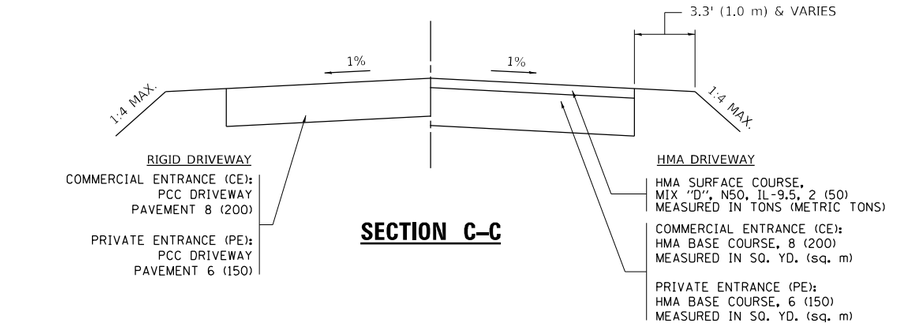

## PLAN
### 6' (1.8 m) TO 10' (3.0 m)



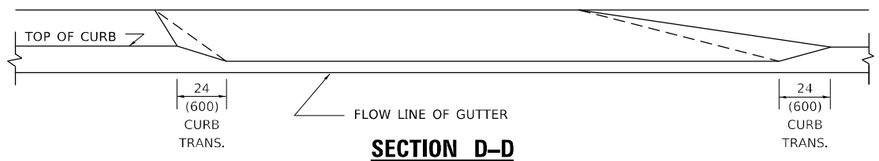

## SECTION A–A




## SECTION B–B




## SECTION C–C




## SECTION D–D

### GENERAL NOTES

1. 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.
2. WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE PCC SIDEWALK SHALL EXTEND TO THE BACK OF CURB.
3. "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.

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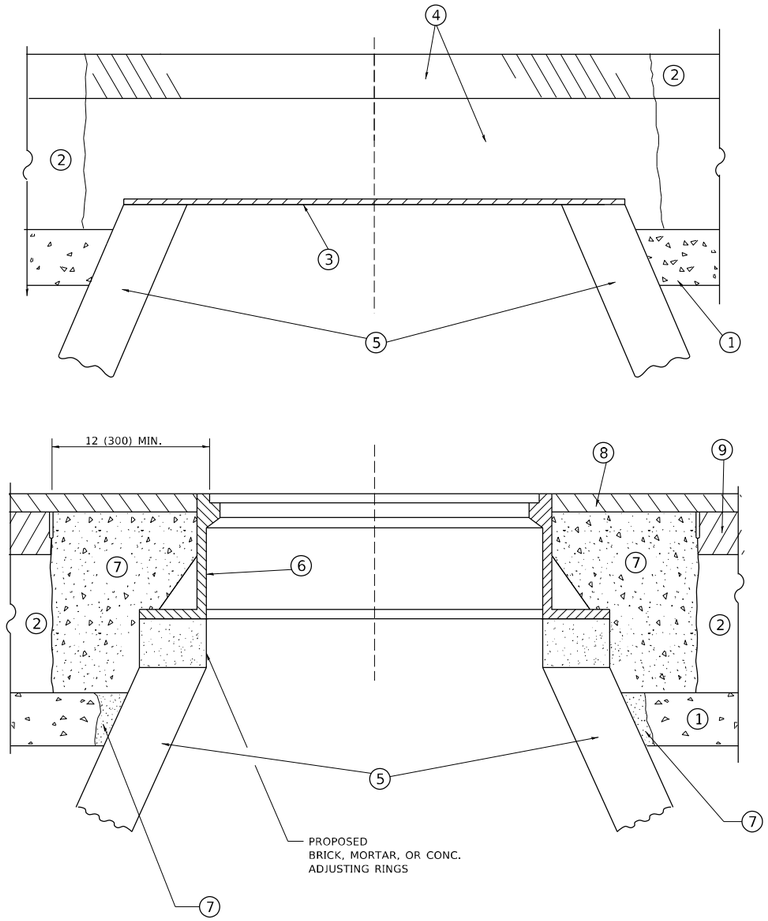
| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - R. SHAH | REVISED - R. BORO 01-01-07 | |
| | DRAWN - | REVISED - R. BORO 09-06-11 | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - K. SMITH 08-27-19 | |
| PLOT DATE = 8/22/2023 | DATE - 11-06-95 | REVISED - K. SMITH 11-18-22 | |

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

**DRIVEWAY DETAILS**
**DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m)**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 25 |
| | BD400–02 (BD–02) | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |




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

NOTES

1. 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.
2. 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.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

## 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 HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 1 1/2 (40) HMA TO REMAIN AFTER MILLING).

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

1. 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)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. 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.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - R. SHAH | REVISED - R. BORO 01-01-07 | |
| | DRAWN - | REVISED - R. BORO 03-09-11 | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - R. BORO 12-06-11 | |
| PLOT DATE = 8/22/2023 | DATE - 10-25-94 | REVISED - K. SMITH 11-18-22 | |

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

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

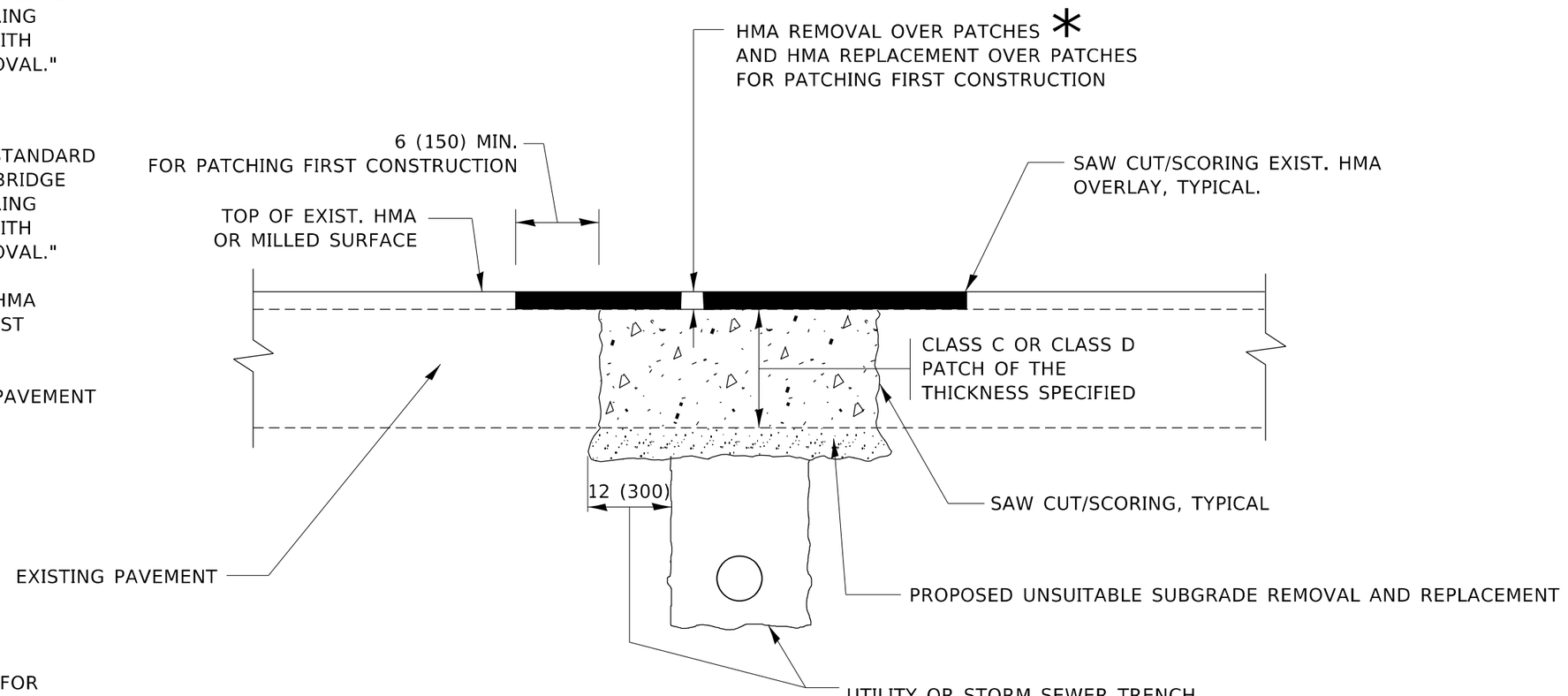
| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 26 |
| | BD600-03 (BD-08) | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |

## METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

## BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.




* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

## 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)

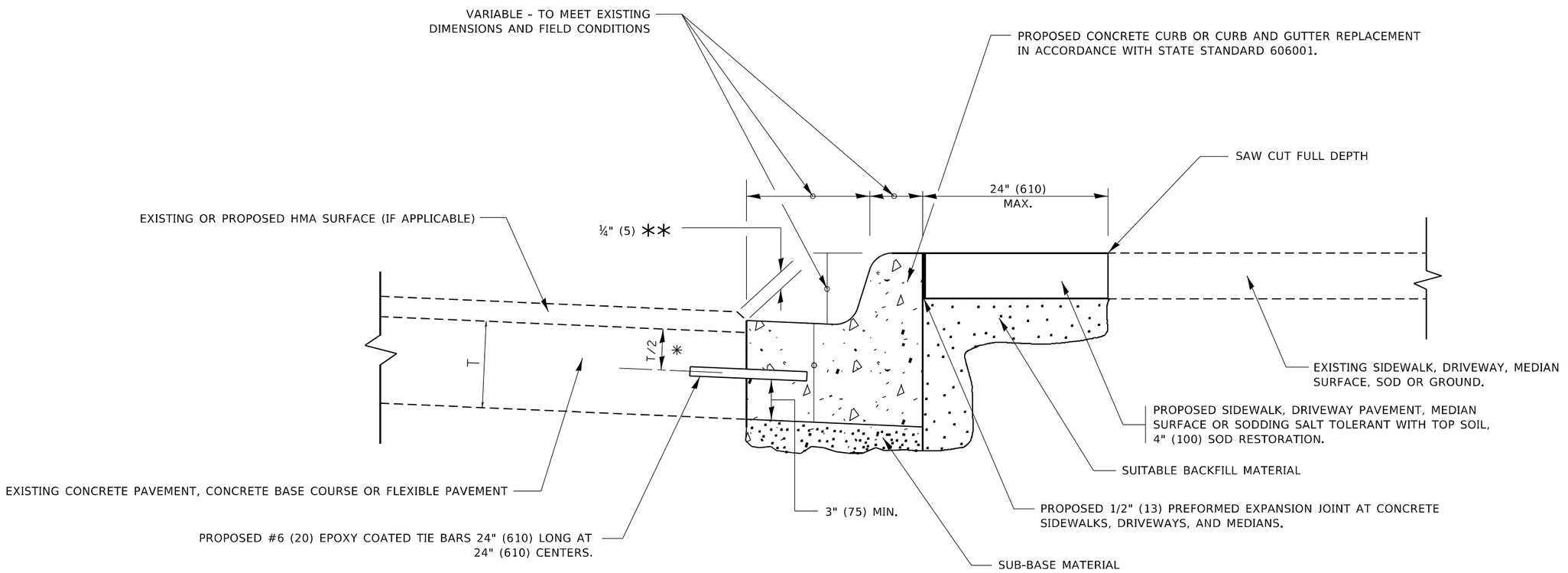
1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

MODEL: Default
FILE NAME: pw:\\Bid-pw.bentley.com:PWIDOT Documents\IDOT Offices\District 1\Projects\D122222\CADData\Design\Bd45d.dgn

| | | | | | |
|---|---|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - R. SHAH | REVISED - R. BORO 01-01-07 | **STATE OF ILLINOIS** | **PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT** | |
| | DRAWN - | REVISED - R. BORO 09-04-07 | **DEPARTMENT OF TRANSPORTATION** | | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - K. ENG 10-27-08 | | SCALE: NONE | SHEET 1 OF 1 SHEETS STA. TO STA. |
| PLOT DATE = 8/22/2023 | DATE - 10-25-94 | REVISED - K. SMITH 11-18-22 | | | |

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 27 |
| | **BD400-04 (BD-22)** | CONTRACT NO. 62T65 | | |
| | 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.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

MODEL: Default
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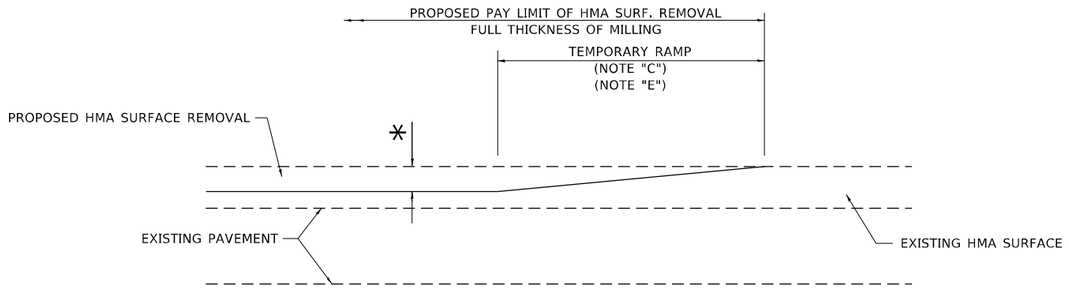
| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - A. HOUSEH | REVISED - A. ABBAS 03-21-97 | |
| | DRAWN - | REVISED - M. GOMEZ 01-22-01 | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - R. BORO 12-15-09 | |
| PLOT DATE = 8/22/2023 | DATE - 03-11-94 | REVISED - K. SMITH 07-11-19 | |

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

**CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

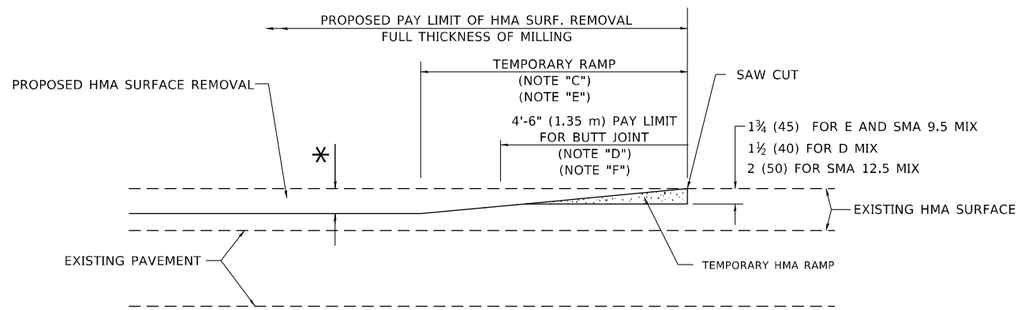
| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 28 |
| | **BD600–06 (BD–24)** | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |




**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

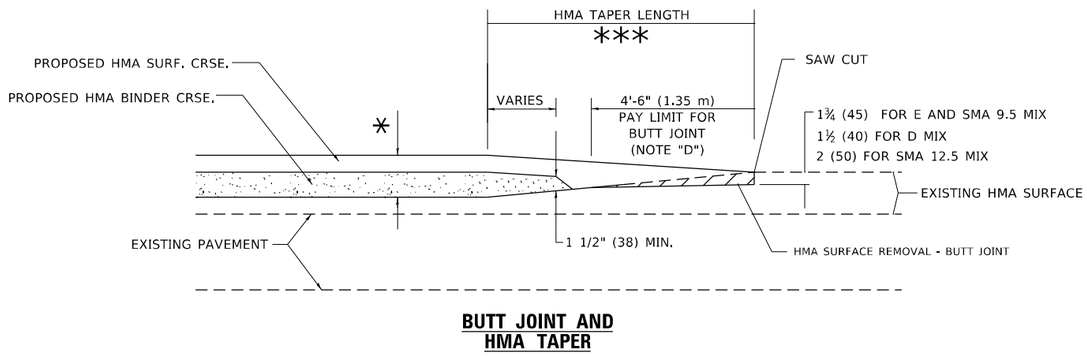



**HMA CONSTRUCTED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

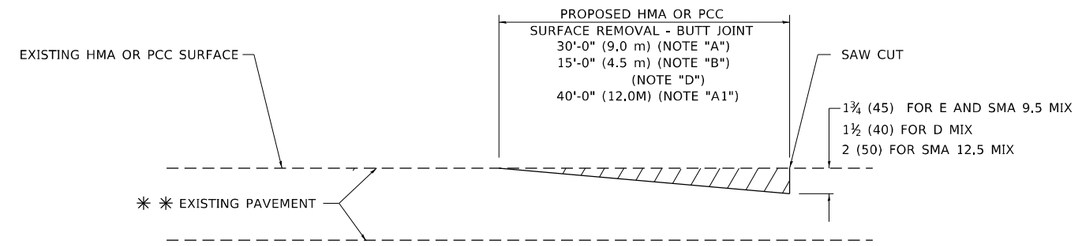
**OPTION 2**

# TYPICAL TEMPORARY RAMP

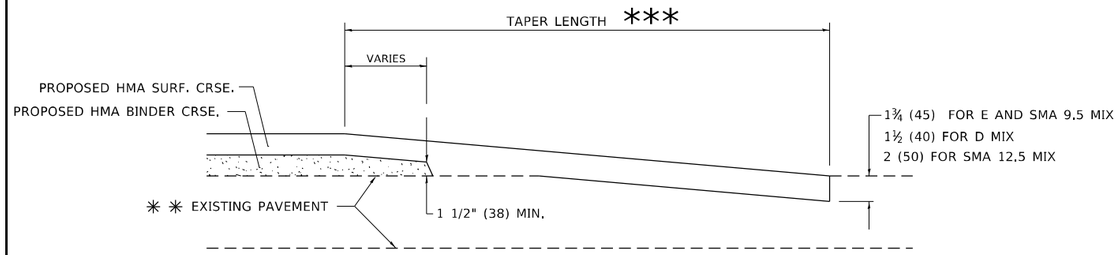



**BUTT JOINT AND HMA TAPER**

# TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING




**BUTT JOINT DETAIL**




**HMA TAPER DETAIL**

# TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

## GENERAL NOTES

A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.

A1. INTERSTATES

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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 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

1. 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".

2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - M. DE YONG | REVISED - A. ABBAS 03-21-97 | |
| | DRAWN - | REVISED - M. GOMEZ 04-06-01 | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - R. BORO 01-01-07 | |
| PLOT DATE = 8/22/2023 | DATE - 06-13-90 | REVISED - K. SMITH 11-18-22 | |

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

**BUTT JOINT AND HMA TAPER DETAILS**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 29 |
| | BD400-05 BD-32 | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |

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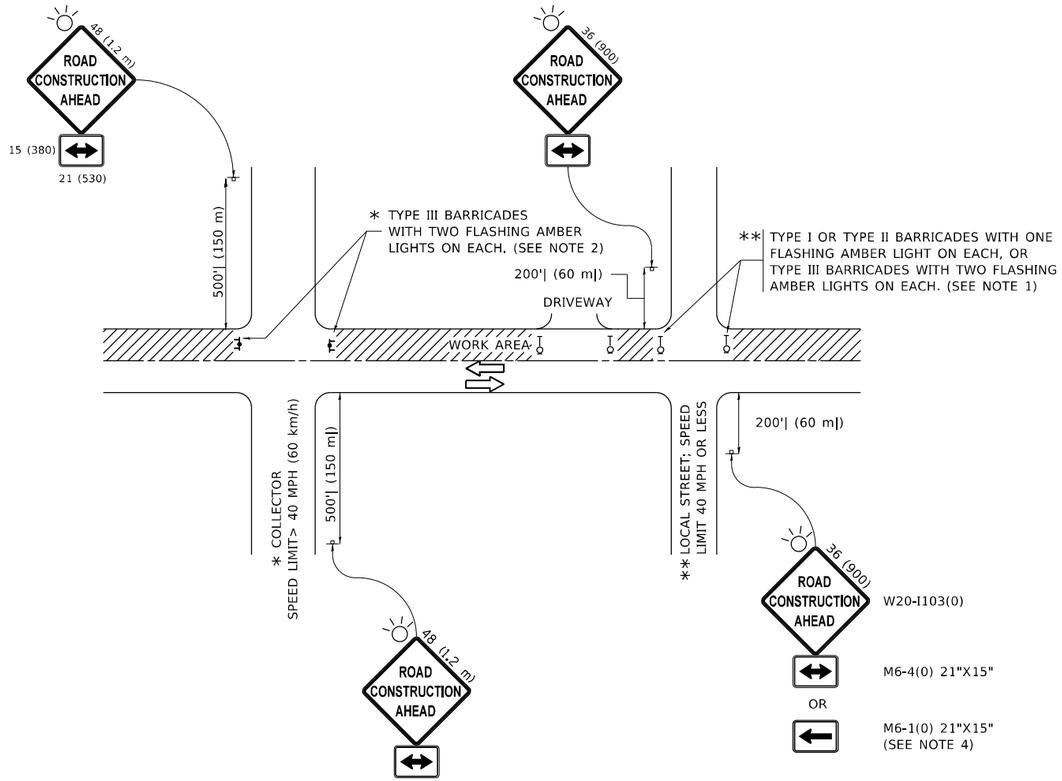


## NOTES:

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 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

| | | |
|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - L.H.A. | REVISED - A. HOUSEH 10-15-96 |
| | DRAWN - | REVISED - T. RAMMACHER 01-06-00 |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - A. SCHUETZE 07-01-13 |
| PLOT DATE = 8/22/2023 | DATE - 06-89 | REVISED - A. SCHUETZE 09-15-16 |

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

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 30 |
| | **TC-10** | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |

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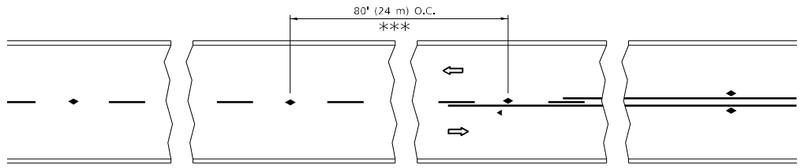
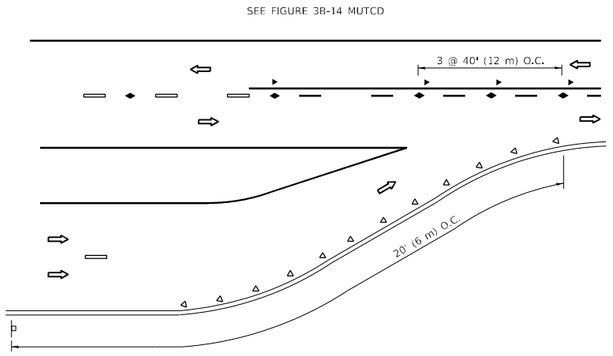


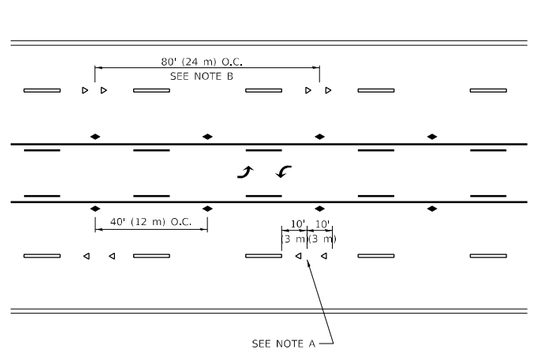

*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

## TWO–LANE/TWO–WAY

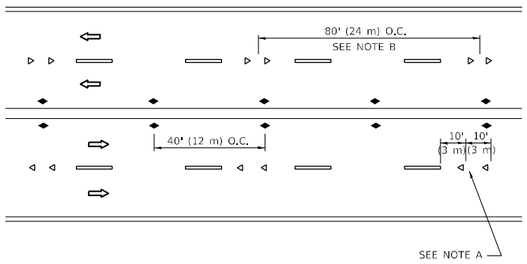
SEE FIGURE 3B-14 MUTCD



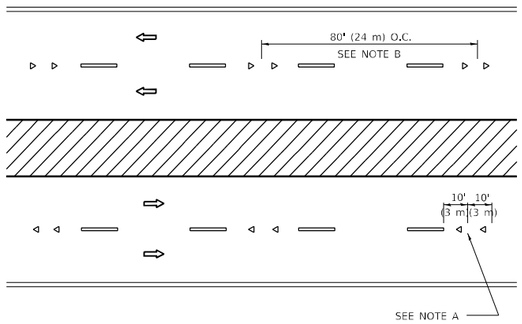

## LANE REDUCTION TRANSITION




## 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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

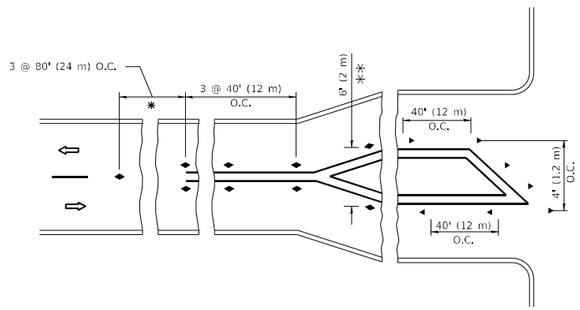
## SYMBOLS

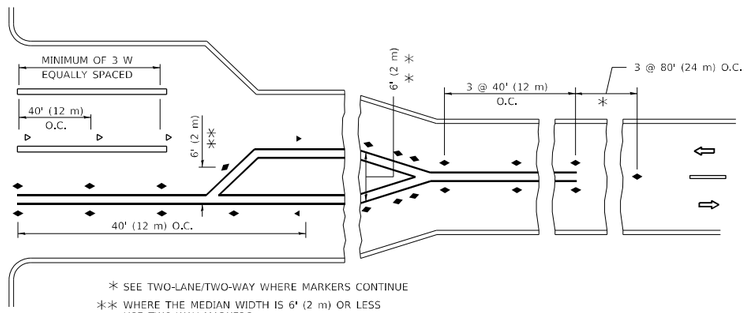
- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

## 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.




* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

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

## TURN LANES

## 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.

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

MODEL: Default
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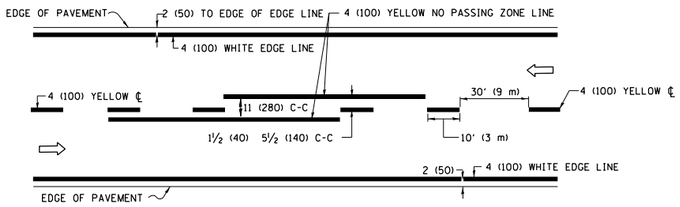
| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - T. RAMMACHER 03-12-99 | |
| | DRAWN - | REVISED - T. RAMMACHER 01-06-00 | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - C. JUCIUS 09-09-09 | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - C. JUCIUS 07-01-13 | |

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

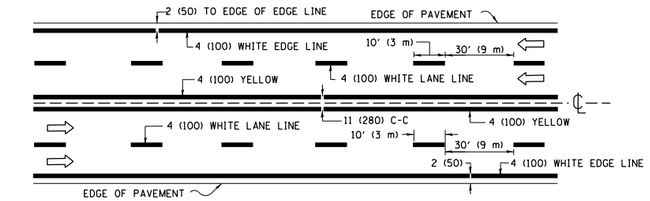
**TYPICAL APPLICATIONS**
**RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

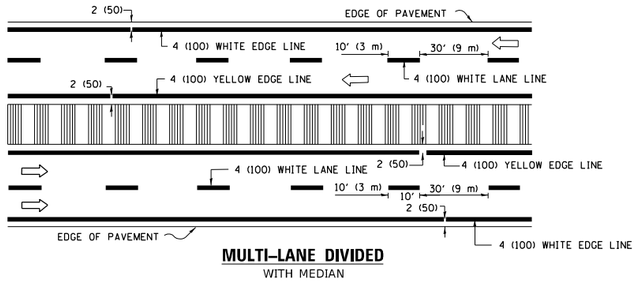
| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 31 |
| | TC–11 | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |




## 2–LANE ROADWAY

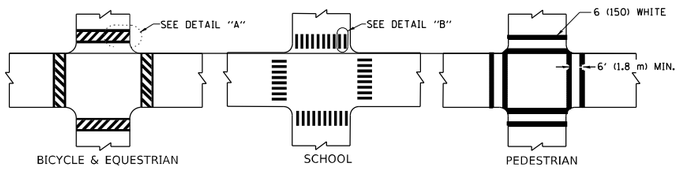


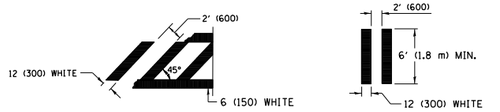

## MULTI–LANE UNDIVIDED




## MULTI–LANE DIVIDED
WITH MEDIAN

## TYPICAL LANE AND EDGE LINE MARKING

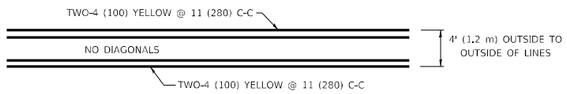


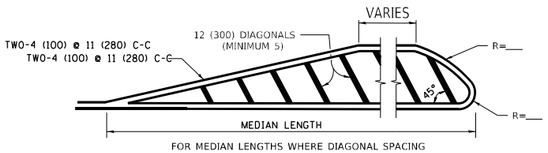

**DETAIL "A"** **DETAIL "B"**

## TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



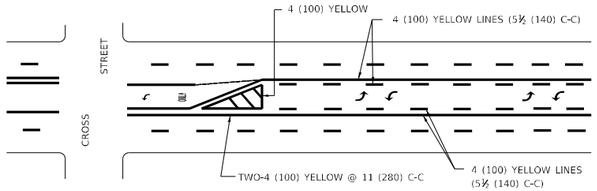

## 4' (1.2 m) WIDE MEDIANS ONLY



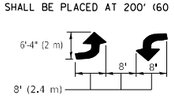

FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

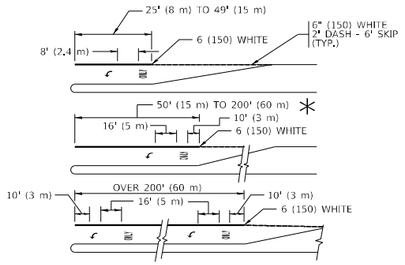



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.




## MEDIAN WITH TWO–WAY LEFT TURN LANE

## TYPICAL PAINTED MEDIAN MARKING

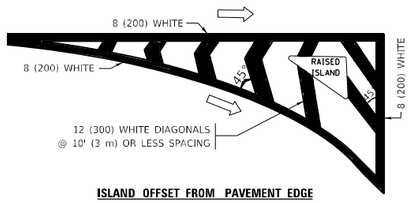



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m ²

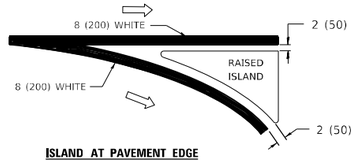
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

## TYPICAL LEFT (OR RIGHT) TURN LANE

## TYPICAL TURN LANE MARKING

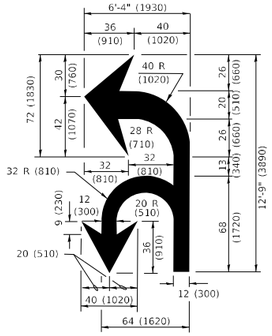



**ISLAND OFFSET FROM PAVEMENT EDGE**

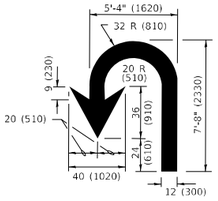



**ISLAND AT PAVEMENT EDGE**

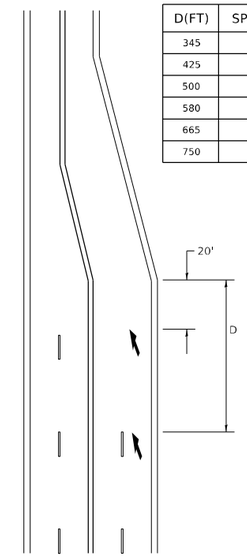
## TYPICAL ISLAND MARKING




## COMBINATION LEFT AND U–TURN




## U–TURN




| D(FT) | SPEED LIMIT |
|---|---|
| 345 | 30 |
| 425 | 35 |
| 500 | 40 |
| 580 | 45 |
| 665 | 50 |
| 750 | 55 |

## LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

| 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:<br>FOR ONE DIRECTION<br>FOR BOTH DIRECTIONS | 4 (100)<br>2 @ 4 (100) | SOLID<br>SOLID | YELLOW<br>YELLOW | 5½ (140) C-C FROM SKIP-DASH CENTERLINE<br>11 (280) C-C<br>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<br>(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 MEDIANS IN YELLOW |
| 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)<br>EACH DIRECTION<br><br>8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW<br><br>WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE<br>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<br>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" IS 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 ² EACH<br>"X"=54.0 SQ. FT. (5.0 m ² |
| SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8' ) | 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)) |
| U TURN ARROW | SEE DETAIL | SOLID | WHITE | 16.3 SF |
| 2 ARROW COMBINATION LEFT AND U TURN | SEE DETAIL | SOLID | WHITE | 30.4 SF |

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.

MODEL: Default
FILE NAME: pw:\\dist-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1222222\CADData\Design\D1tst01.dgn

| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - EVERS | REVISED - C. JUCIUS 09-09-09 | |
| | DRAWN - | REVISED - C. JUCIUS 07-01-13 | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - C. JUCIUS 12-21-15 | |
| PLOT DATE = 8/22/2023 | DATE - 03-19-90 | REVISED - C. JUCIUS 04-12-16 | |

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

**DISTRICT ONE**
**TYPICAL PAVEMENT MARKINGS**

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 32 |
| | TC–13 | CONTRACT NO. 62T65 | | |
| | | ILLINOIS FED. AID PROJECT | | |

## TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

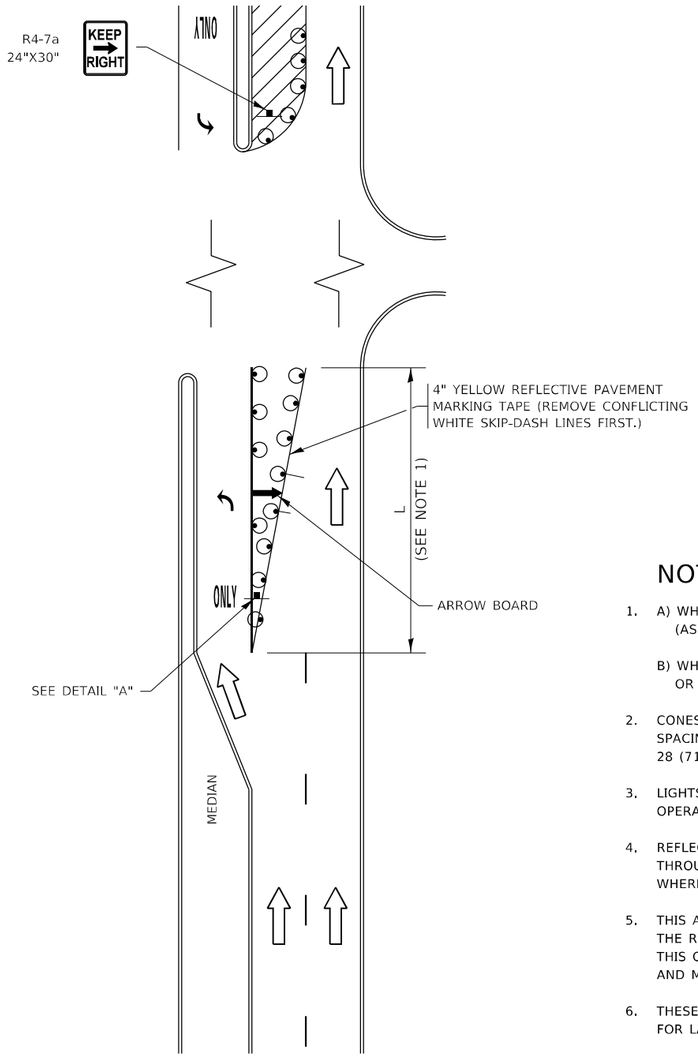



**FIGURE 1**

## LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

## NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

## TURN BAY ENTRANCE WITHIN A LANE CLOSURE

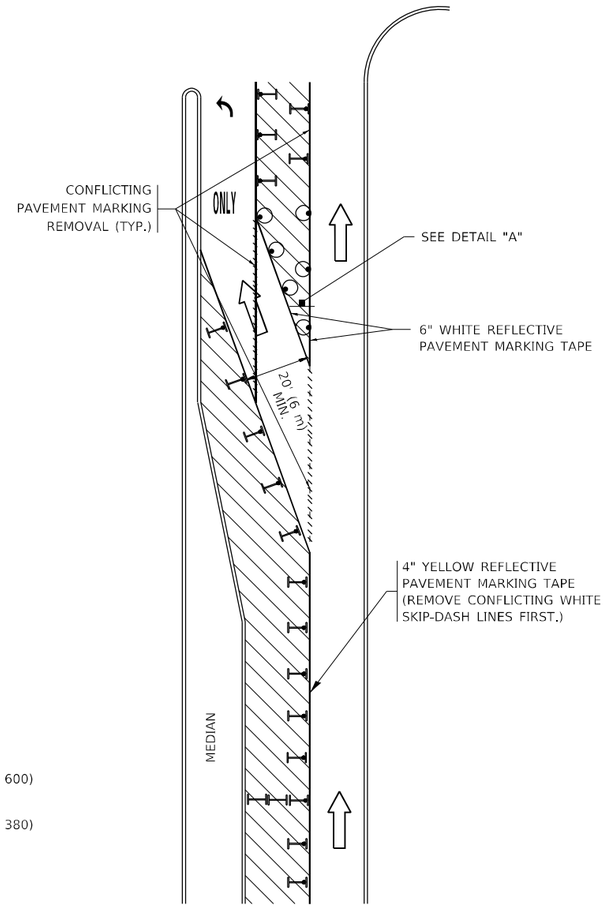
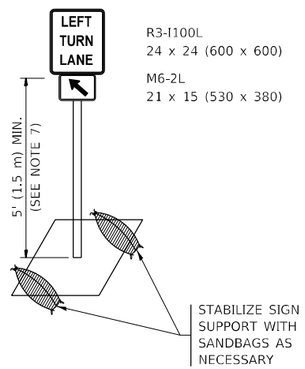



**FIGURE 2**




**DETAIL A**

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

MODEL: Default
FILE NAME: z:\illdot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1222222\CADData\Design\StdSht.dgn

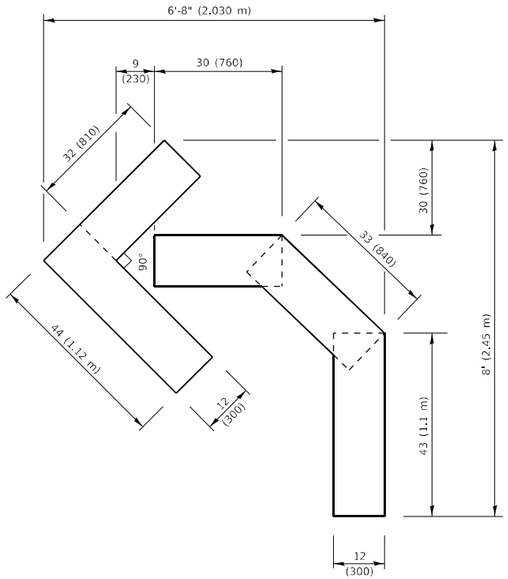
| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - T. RAMMACHER 09-08-94 | REVISED - R. BORO 09-14-09 | |
| | DRAWN - A. HOUSEH 11-07-95 | REVISED - A. SCHUETZE 07-01-13 | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - A. HOUSEH 10-12-96 | REVISED - A. SCHUETZE 09-15-16 | |
| PLOT DATE = 8/22/2023 | DATE - T. RAMMACHER 01-06-00 | REVISED - | |

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

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)**

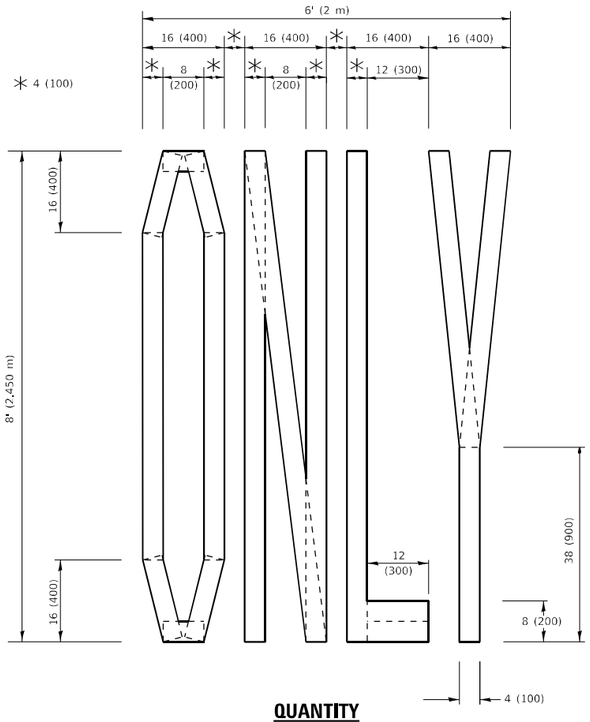
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 33 |
| | TC-14 | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |



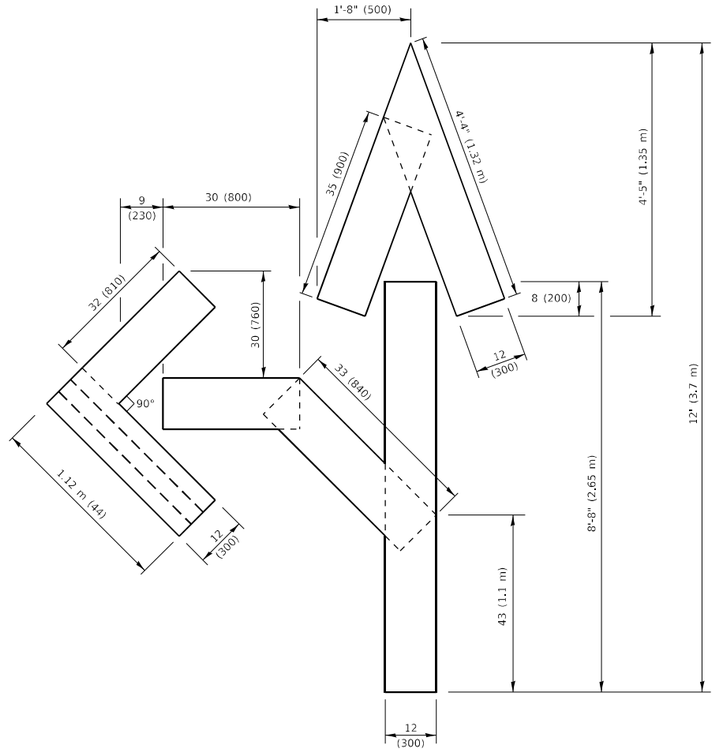

**QUANTITY**

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)




**QUANTITY**

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

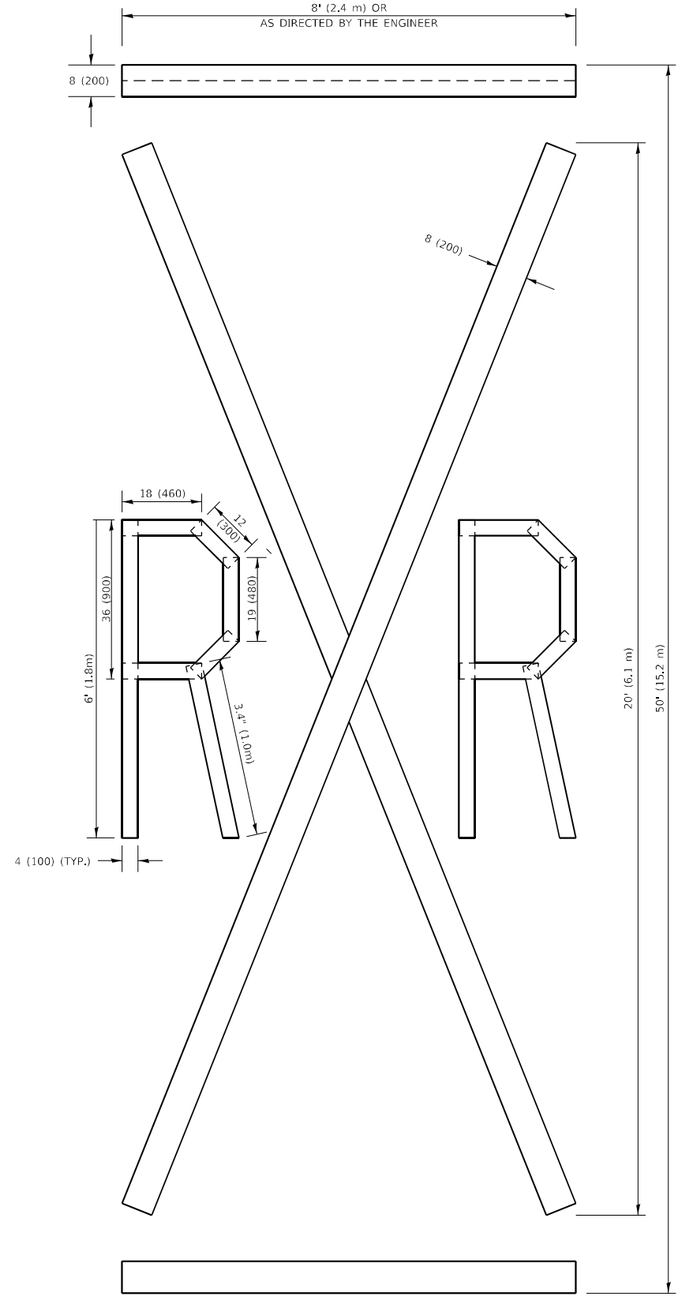



**QUANTITY**

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.




**QUANTITY**

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

MODEL: Default
FILE NAME: pw:\\dist-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\D122222\CADData\Design\Dist-Std.dgn

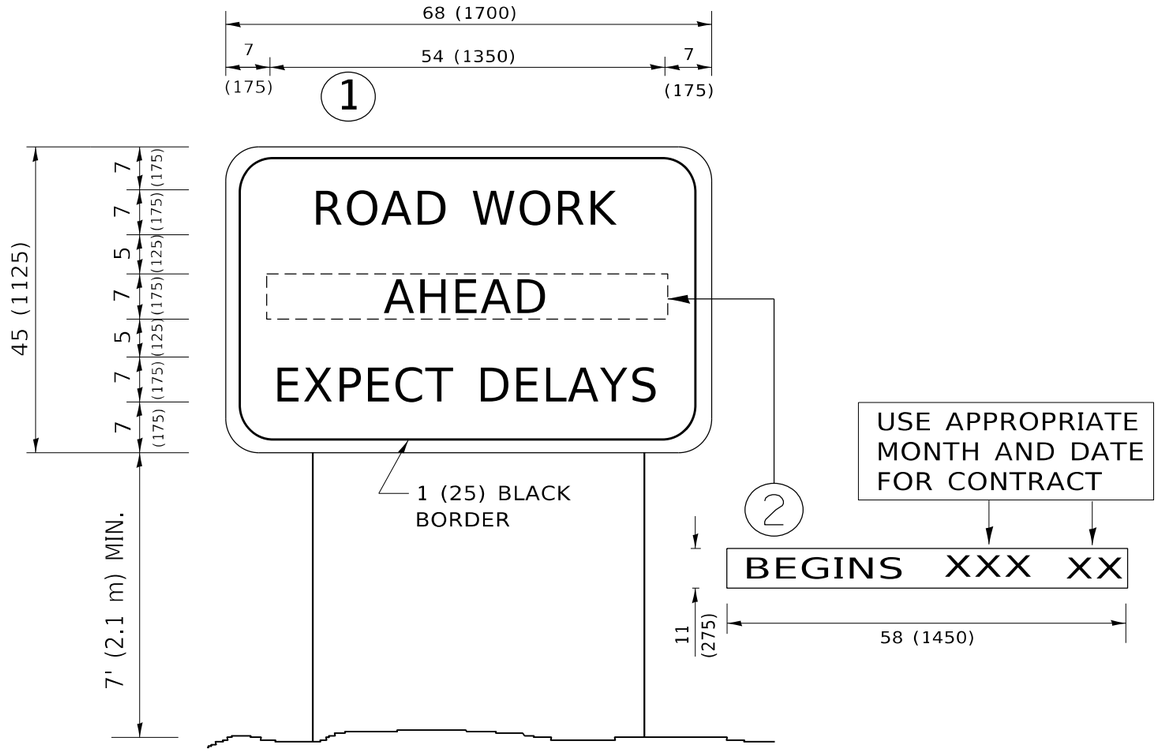
| | | |
|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - T. RAMMACHER 03-02-98 |
| | DRAWN - | REVISED - E. GOMEZ 08-28-00 |
| PLOT SCALE = 100.0010 ' / in. | CHECKED - | REVISED - E. GOMEZ 08-28-00 |
| PLOT DATE = 8/22/2023 | DATE - 09-18-94 | REVISED - A. SCHUETZE 09-15-16 |

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

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 34 |
| | **TC-16** | CONTRACT NO. 62T65 | | |
| | 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.



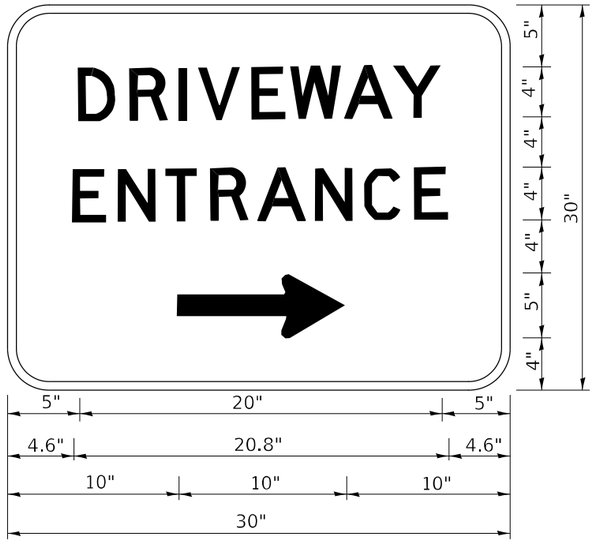
| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - R. MIRS 09-15-97 | |
| | DRAWN - | REVISED - R. MIRS 12-11-97 | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - T. RAMMACHER 02-02-99 | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - C. JUCIUS 01-31-07 | |

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

**ARTERIAL ROAD INFORMATION SIGN**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 35 |
| | TC–22 | CONTRACT NO. 62T65 | | |
| | 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".



| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - C. JUCIUS 02-15-07 | |
| | DRAWN - | REVISED - | |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | |
| PLOT DATE = 8/22/2023 | DATE - | REVISED - | |

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

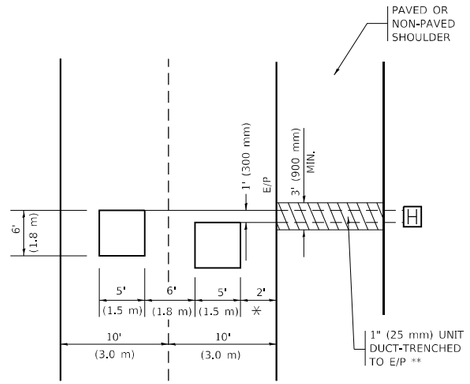
**DRIVEWAY ENTRANCE SIGNING**

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 36 |
| | **TC–26** | CONTRACT NO. 62T65 | | |
| | ILLINOIS | FED. AID PROJECT | | |

## LOOPS NEXT TO SHOULDERS

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



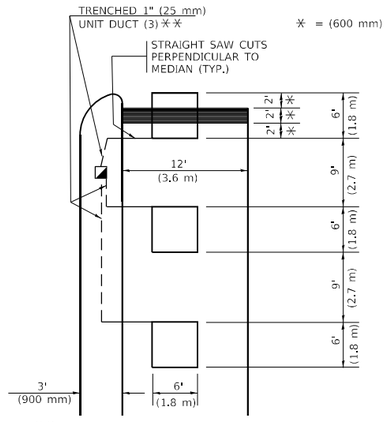

* = (600 mm)

** 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.



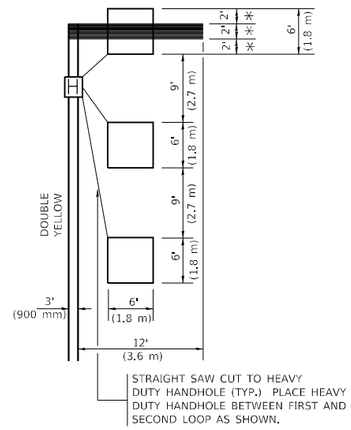

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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)

* = (600 mm)




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 SEPARATLY. 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.

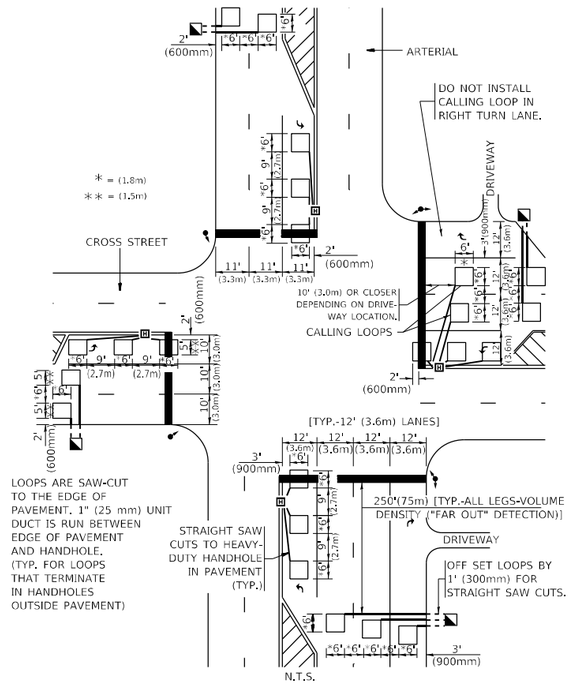
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

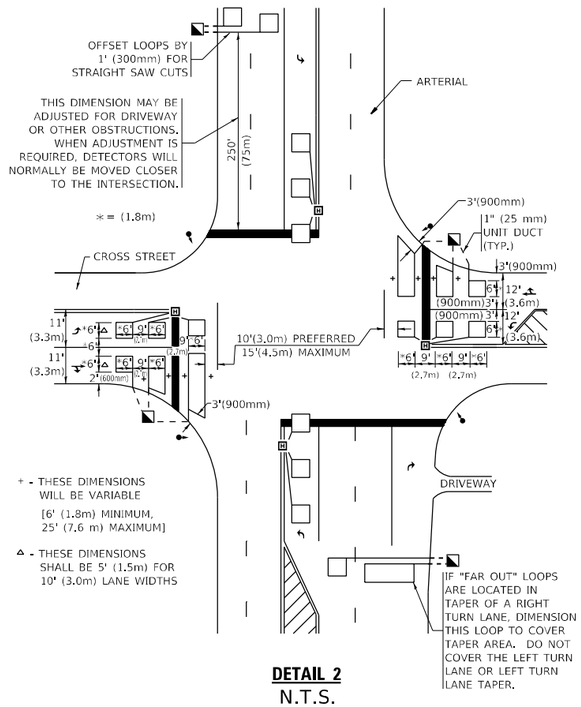
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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

| | | | |
|---|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | | REVISED - |
| | DRAWN - | | REVISED - |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | R.K.F. | REVISED - |
| PLOT DATE = 8/22/2023 | DATE - | | REVISED - |

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

**DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING**

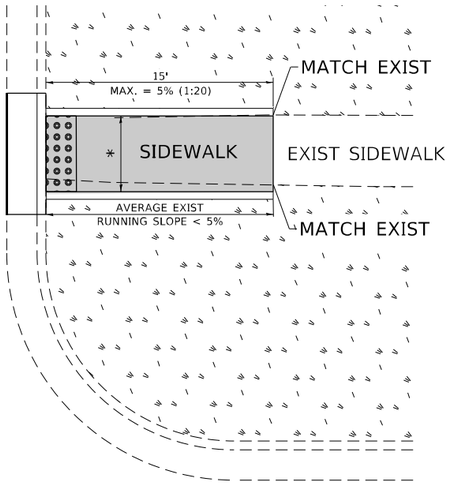
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 37 |
| | TS–07 | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |

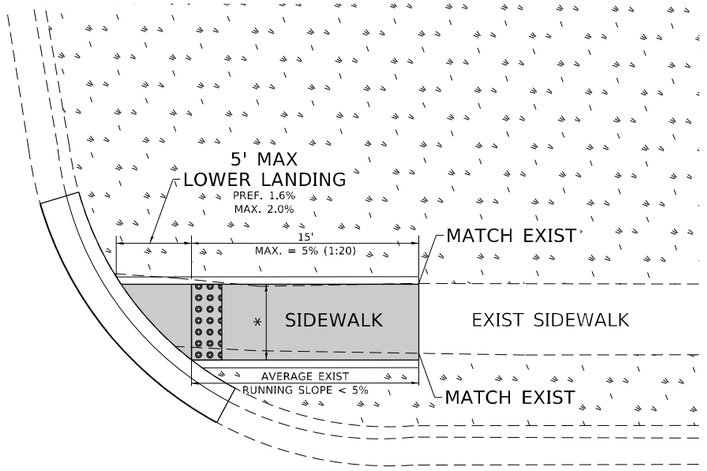
MODEL: Default
FILE NAME: ow:\\dot-ow.bentley.com:PWIDOT Documents\IDOT Office\District 1\Projects\D1222222\CADData\Design\D1ATSTd.dgn

# ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR LESS RUN. SLOPE

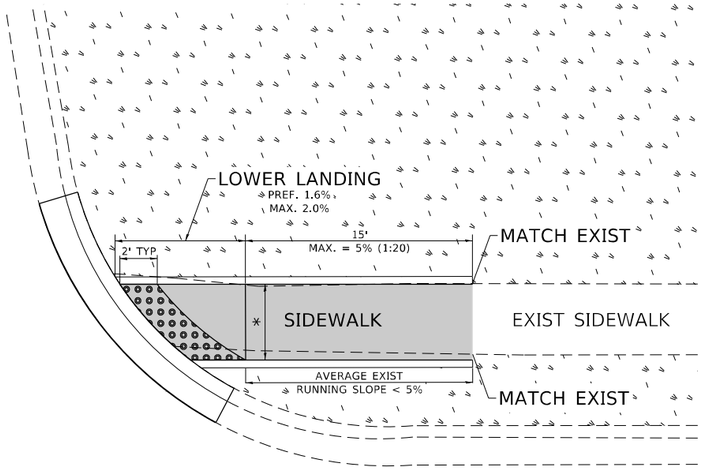
## PD–01A




## PD–01B




## PD–01C




**LEGEND**

- PROPOSED SIDE CURB
- EXIST. GRASS
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS

**CONSTRUCTION NOTES:**

1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK

* MATCH EXISTING SIDEWALK WIDTH

| | | |
|---|---|---|
| USER NAME = Wendy.Andonayre | DESIGNED - | REVISED - |
| | DRAWN - R. LEDEZMA | REVISED - |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/22/2023 | DATE - 10/02/2019 | REVISED - |

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

**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS**
**(PD–01)**

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

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 311 | FAP 0311 22 RS | DUPAGE | 38 | 38 |
| | PD-01 | CONTRACT NO. 62T65 | | |
| | ILLINOIS FED. AID PROJECT | | | |

MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:PWIDOT Documents\IDOT Offices\District 1\Projects\D1222223\CADData\Design\Dist5td.dgn