06-14-2019 LETTING ITEM 010

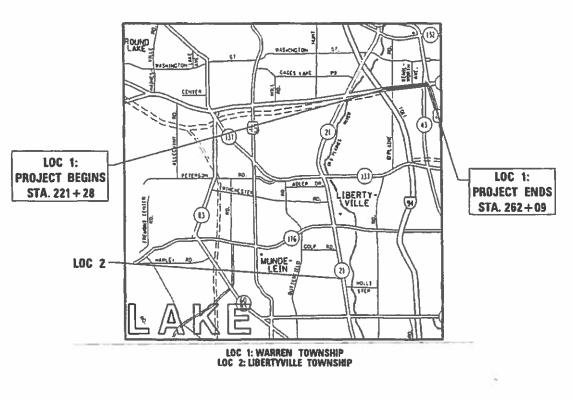
FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROPOSED **HIGHWAY PLANS**

LOC 1: F.A.P. 333: IL 120 E OF I-94 TO IL 43 (WAUKEGAN RD.) & AT IL 43 & IL 41 RAMPS RESURFACING (3P), NEW SHOULDERS & MILLED RUMBLE STRIPS LOC 2: IL 21 AT GREENTREE PKWY / RED TOP DRIVE **ADA RAMPS & PEDSTRIAN TRAFFIC SIGNALS** SECTION 2018–066–RS&SR **PROJECT: NHPP** - **JOZ4**(604) LAKE COUNTY

C-91-269-18

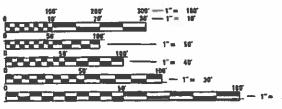


GROSS & NET LENGTH OF PROJECT = 10,490 FT = 1.99 ML GROSS & NET LENGTH OF IL 129 = 4.081 FT = 0.77 MI. GROSS & NET LENGTH OF RAMPS = 2,041 FT = 0.39 MI. (IL 43) GROSS & NET LENGTH OF RAMPS = 4,368 FT = 0.83 MI. (IL 41)

THE PROJECT IS LOCATED WITHIN: LOC 1: THE VILLAGES OF GURNEE AND AND THE CITIES OF WAUKEGAN & PARK CITY LOC 2: VILLAGE OF LIBERTYVILLE

TRAFFIC DATA

MAINLINE 2017 ADT - 38,800 POSTED SPEED LIMIT - 35 MPH TO 55 MPH RAMPS POSTED SPEED LIMIT - 25 MPH

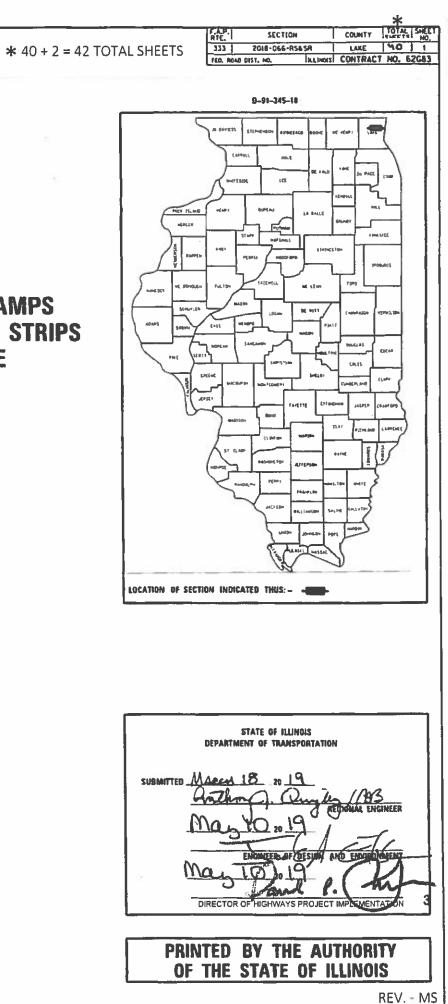


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432 PROJECT MANAGER: FAWAD AQUEEL (847) 702-4247

CONTRACT NO. 62G83



INDEX OF SHEETS

LIST OF STATE STANDARDS

GENERAL NOTES

| IEET NO. | DESCRIPTION | TANDARD NO. | DESCRIPTION | С | EFORE |
|----------|---|-------------|---|--------|------------------|
| 1 | COVER SHEET | 000001-07 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS | | LECTF 48 HO |
| 2 | INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES | 420001-09 | PAVEMENT JOINTS | 2) T | HE CC |
| 3-6 | SUMMARY OF QUANTITIES | 442201-03 | CLASS C AND D PATCHES | | ITH U. ND TH |
| 7 | EXISTING & PROPOSED TYPICAL SECTIONS | 604001-04 | FRAME AND LIDS, TYPE 1 | ٦) T | HE CC |
| 8-14 | ROADWAY & PAVEMENT MARKINGS PLANS | 606001-07 | COMBINATION CONRETE AND GUTTER | F | IELD ROM 1 |
| 15-16 | DETECTOR LOOP PLANS | 642001-02 | SHOULDER RUMBLE STRIPS, 16 IN. | | |
| 17 | PEDESTRIAN RAMP DETAILS | 701006-05 | OFF-ROAD OPERATIONS 2L, 2W, 15' TO 2' FROM PAVEMENT EDGE | G | HEN N RADE |
| 18-21 | PEDESTRIAN TRAFFIC SIGNAL PLANS - IL 21 AT GREENTREE PKWY/ RED TOP DR. | 701101-05 | OFF-ROAD OPERATIONS, MULTILANE, 15' TO 2' FROM PAVEMENT E | DGE IS | HALL S 45 I |
| 22 | BD-8: DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING | 701106-02 | OFF-ROAD MOVING OPERATIONS, MULTILANE, MORE THAN 15' AWA' | | S GRE. ROM T |
| 23 | BD-22: PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT | 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS | | NCHES IINIMUI |
| 24 | BD-24: CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT | 701411-09 | LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR | | UTT J |
| 25 | BD-32: BUTT JOINT AND HMA TAPER DETAILS | | SPEEDS > 45 MPH | () | WHERE VITH T |
| 26 | BD-33: HMA TAPER AT EDGE OF P.C.C. PAVEMENT | 701421-08 | LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS 45 TO 55 MPH | | NCLUD |
| 26A | TC 08: ENTRANCE AND EXIT RAMP CLOSURE DETAILS | 701422-10 | LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 TO 55 MPH | | HE RE |
| 27 | TC-10: TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS | 701426-09 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING | | NGINE MININ |
| 28 | TC-11: TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTAN | | OPERATION, FOR SPEEDS > 45 MPH | | AVEME |
| 29 | TC-13: DISTRICT ONE TYPICAL PAVEMENT MARKINGS | 701427-05 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIO FOR SPEEDS < 45 MPH | | HE RE MARKIN |
| 30 | TC-14: TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) | 701501-06 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED | | |
| 31 | TC-16: PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING | 701502-09 | URBAN_LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL | | O NOT |
| 31A | TC-17: TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES | | LEFT TURN LANE | D | OUBLE |
| 32 | TC-22: ARTERIAL ROAD INFORMATION SIGN | 701602-10 | URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE | | AISED Snow-1 |
| 33 | TS-05: DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 1 OF 7) | 701701-10 | URBAN LANE CLOSURE, MULTILANE INTERSECTION | 10) A | .ll Pa |
| 34 | TS-05: DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 2 OF 7) | 701901-08 | TRAFFIC CONTROL DEVICES | | N THE |
| 35 | TS-05: DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 2 OF 7) | 814001-03 | HANDHOLES | | T SHAI ERIFY |
| 36 | TS-05: DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 4 OF 7) | 873001-02 | TRAFFIC SIGNAL GROUNDING & BONDING | | N THE |
| 37 | TS-05: DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 5 OF 7) | 878001-10 | CONCRETE FOUNDATION DETAILS | | HE CO |
| 38 | TS-05: DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 6 OF 7) | 880006-01 | TRAFFIC SIGNAL MOUNTING DETAILS | | RAFFI MININ |
| 39 | TS-05: DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 7 OF 7) | 886001-01 | DETECTOR LOOP INSTALLATIONS | 13) T | HE CO |
| 40 | TS-07: DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING | 886006-01 | TYPICAL LAYOUT FOR DETECTOR LOOPS | Ρ | ROVID |
| 10 | | | | | HE CO |
| | | | | | ONSTR |

15) TYPE III TAPE IS TO BE USED ON THE FINAL WEARING SURFACE

| FILE NAME = | USER NAME = qureshiya | DESIGNED - | REVISED - | | II 120 / | E OF 1 04 TO 11 42 8 AT | | F.A.P. | SECTION | COUNTY | TOTAL SHEET |
|--|------------------------------|------------|-----------|------------------------------|--|-------------------------|--|--------|-----------------|-------------|-------------|
| pw://planroom.dot.illinois.gov:PWIDOT/Doci | | | REVISED - | ID - STATE OF ILLINOIS | | | IL 120 (E OF I–94 TO IL 43 & AT IL 43 & IL 41 RAMPS) | | | | |
| | PLOT SCALE = 100.0002 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES | | | | CONTRACT | T NO. 62G83 | |
| | PLOT DATE = 4/17/2019 | DATE - | REVISED - | SCA | | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | | ILLINOIS FED. A | ID PROJECT | |

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

CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES UTILITY COMPANIES AND THE VILLAGES OF GURNEE, LIBERTYVILLE, THE CITIES OF WAUKEGAN AND PARK CITY.

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

MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM E DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE L NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT 5 MPH (45 KM/H) OR LESS AND 1 INCH WHERE THE SPEED LIMIT REATER THAN 45 MPH (45 KM/H). WITH WRITTEN APPROVAL THE ENGINEER. A MAXIMUM GRADE DIFFERENTIAL OF 3 IS MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A AUM 1:3 (V:H).

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

RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD NEER, MR. WALTER CZARNY, AT WALTER.CZARNY@ILLINOIS.GOV NIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT MENT MARKINGS.

RESIDENT ENGINEER SHALL VERIFY ALL EXISTING PAVEMENT INGS BEFORE MILLING.

NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS

BLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE RICT ONE DETAIL "TYPICAL APPLICATIONS -ED REFLECTIVE PAVEMENT MARKERS W-PLOW RESISTANT)" SHOWN IN THE PLANS.

PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED HE FIELD BY THE ENGINEER.

HALL BE THE CONTRACTOR'S RESPONSIBILITY TO FY ALL DIMENSIONS AND CONDITIONS EXISTING HE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

CONTRACTOR SHALL CONTACT THE DISTRICT ONE FIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV NIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

CONTRACTOR SHALL BE REQUIRED TO 'IDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES NG THE CONSTRUCTION OF THIS PROJECT.

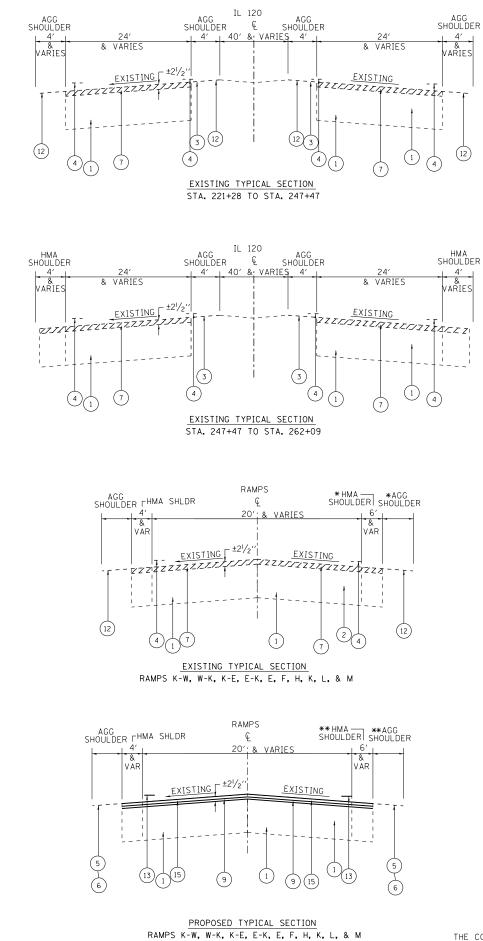
THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIME DURING CONSTRUCTION.

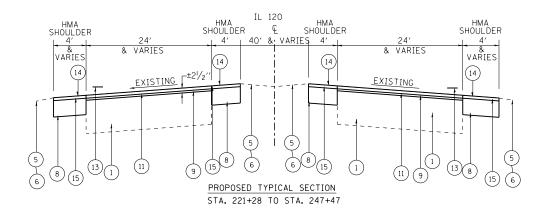
| ALCOUND | | | | URBAN | | | | | | | | | | | URBAN | | | | | | |
|--|--|---|----------|------------|------------------------------|-------------------|----------|----------|----------|-----------|------------|--------------|-----------------------------|--------|-------|--------|-----------------------|-----------|----------|----------|-----------------------------------|
| | | SUMMARY OF QUANTITIES | | | | | ONSTRUCT | ION TYPE | CODE | | | SUMMAF | RY OF QUANTITIES | | | | | ONSTRUCTI | ON TYPE | CODE | |
| Image: marrier in the state of t | | | | | 0005 | 0021 | | | | | | | | | | 0005 | 0021 | | | | 1 |
| Main biand frame And <td>CODE NO</td> <td>ITEM</td> <td>UNIT</td> <td>QUANTITIES</td> <td>ROADWAY 80%FED 20% STA</td> <td>80%FED 20% STA</td> <td></td> <td></td> <td></td> <td></td> <td>CODE NO</td> <td></td> <td>ITEM</td> <td>UNIT</td> <td></td> <td>80%FED</td> <td>80%FED</td> <td></td> <td></td> <td></td> <td></td> | CODE NO | ITEM | UNIT | QUANTITIES | ROADWAY 80%FED 20% STA | 80%FED 20% STA | | | | | CODE NO | | ITEM | UNIT | | 80%FED | 80%FED | | | | |
| Image: constraint of a constra constraint of a constraint of a constraint of a constraint of a | 20200100 | EARTH EXCAVATION | CU YD | | | | | | | | 44000600 | SIDEWALK REM | OVAL | SO FT | | | | | | | |
| Image: constraint of a constra constraint of a constraint of a constraint of a constraint of a | | | | | | | | | | | | | | | | | | | | | |
| Control 1 | 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 43070 | 43070 | | | | | | 44002212 | HOT-MIX ASPH | ALT REMOVAL OVER PATCHES, | SO YD | 1760 | 1760 | | | | | |
| Indefinit Case of the state of the s | | | | | | | | | | | | 3" | | | | | | | | | |
| characterization Constrain Constrai | 40600400 | MIXTURE FOR CRACKS, JOINTS, AND | TON | 96 | 96 | | | | | | | | | | | | | | | | |
| without, 11-4, 15, Mong vithout, 11-4 | | FLANGEWAYS | | | | | | | | | 44201777 | CLASS D PATC | HES, TYPE II, 11 INCH | SQ YD | 1000 | 1000 | | | | | |
| without, 11-4, 15, Mong vithout, 11-4 | 40600007 | | | | | | | | | | 44001701 | | | | 700 | 700 | | | | | |
| Image: state sta | 40600827 | | | 2608 | 2608 | | | | | | 44201781 | CLASS D PAIC | HES, TYPE III, II INCH | SUTD | 300 | 300 | | | | | |
| And als Assnut 1 SUFACE RELOVAL Failed On the stand 1 Sufface Reloval - Sufface Reloval - Sufface Reloval - Sufface Reloval - Sufface Relaval - Su | | METHOD), IL-4.75, N50 | | | | | | | | | | | | | | | | | | | |
| Image: state sta | | | | | | | | | | | 44201783 | CLASS D PATC | HES, TYPE IV, 11 INCH | SO YD | 425 | 425 | | | | | |
| | 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT | SO YD | 475 | 475 | | | | | | | | | | | | | | | | |
| $ \begin{aligned} \begin{aligned} \begin{aligned} \begin{aligned} \begin{aligned} \\ + A C + C + C + C + C + C + C + C + C + $ | | JOINT | | | | | | | | | 48102100 | AGGREGATE WE | DGE SHOULDER, TYPE B | TON | 315 | 315 | | | | | |
| $ \begin{aligned} \begin{aligned} \begin{aligned} \begin{aligned} \begin{aligned} \\ + A C + C + C + C + C + C + C + C + C + $ | | | | | | | | | | | | | | | | | | | | | |
| Image: state of the state | 40601005 | HOT-MIX ASPHALT REPLACEMENT OVER | TON | 269 | 269 | | | | | | 64200116 | SHOULDER RUM | BLE STRIPS, 16 INCH | FOOT | 7747 | 7747 | | | | | |
| Add bots Normal a line counses, il-1:0, or the second counse of the | | PATCHES | | | | | | | | | | | | | | | | | | | |
| $ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$ | | | | | | | | | | | ★ 66900200 | NON-SPECIAL | WASTE DISPOSAL | CU YD | 5 | | 5 | | | | |
| $ \begin matrix substrates pre-construction in a construction in a constructina construction in a con$ | 40603085 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, | TON | 1118 | 1118 | | | | | | | | | | 1 | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | N70 | | | | | | | | | ★ 66900530 | SOIL DISPOSA | L ANALYSIS | EACH | 1 | | 1 | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | | | | | | | | | | | | | | 1 |
| $ \left \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 40603340 | HOT-MIX ASPHALT SURFACE COURSE, MIX | TON | 3832 | 3832 | | | | | | * 66901001 | REGULATED SU | BSTANCES PRE-CONSTRUCTION | LSUM | 1 | | 1 | | | | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | "D", N70 | | | | | | | | | | PLAN | | | 1 | | | | | | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | | | | | | | | | | | | | |
| 42400200 PORTLAND CEMENT CONCRETE SIDEWARK 5 SO FT 435 A | 42001300 | PROTECTIVE COAT | SO YD | 50 | 50 | | | | | | * 66901002 | | TORING OF REGULATED | CAL DA | 1 | | 1 | | | | |
| INCH | | | | | | | | | | | | SUBSTANCES | | | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 | SO FT | 435 | | 435 | | | | | | | | | | | | | | | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | INCH | | | | | | | <u> </u> | | * 66901003 | REGULATED SU | BSTANCES FINAL CONSTRUCTION | LSUM | 1 | | 1 | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | | ļ | | | REPORT | | | | | | | | | |
| 44000159 HOT-MIX ASPHALT SURFACE REMOVAL, 2 S0 YD 63213 6313 6313 6313 | 42400800 | DETECTABLE WARNINGS | SO FT | 40 | | 40 | | | | | | | | | | | | | | | ļ |
| I / 2'' | | | <u> </u> | <u> </u> | | | | | | | 67000400 | ENGINEER'S F | IELD OFFICE, TYPE A | CAL MO | 6 | 6 | | | | | |
| File NAME = gurssing DESIGNED - REVISED - REVISED - REVISED - REVISED - STATE OF ILLINOIS put/vlam.com.dd/lilinols.gov/PMIODT/Documents/VD7 / in. CHECKED - REVISED - REVISED - REVISED - COUNTY STATE OF ILLINOIS put/vlam.com.dd/lilinols.gov/PMIODT/Documents/VD7 / in. CHECKED - REVISED - REVISED - COUNTY COUNTY SUMMARY OF QUANTITIES | 44000159 | | SO YD | 63213 | 63213 | | | | | | | | | | | | | | * SPECT | | |
| purcharged and the second of t | | | | | | | | | | | 67100100 | MOBILIZATION | | LSUM | 1 | 1 | | | # NON P/ | | |
| PLOT SCALE = 1000004 1/ In. CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION CONTRACT NO. 62683 | FILE NAME = pw:\\planroom.dot.!!!!nois | sgov:PWID0T\Documents\D0T_0 | gkwn - | | REVISED | - | | | | | | | | | | RAMPS) | F.A.P. RTE. 333 | SEC1 | | | TOTAL SHEET SHEETS NO. 40 3 |
| PLOT DATE = J/22/2019 DATE - REVISED - SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | A | | | | | | | DEPARTM | IENT OF 1 | RANSPORTA | TION | | | | O STA. | | | | CONTRACT | NO. 62G83 |

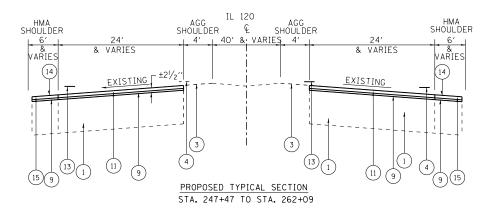
| | | | URBAN | | | | | | | | | | | URBAN | | | |
|--------------------------------------|--|--------------------|------------|--------------------|------------|----------|----------|------|----------|------------|--------------|----------------------------|--------------|------------|--|------------------|-----------------------------------|
| | SUMMARY OF QUANTITIES | | | LOC 1 | C LOC 2 | ONSTRUCT | ION TYPE | CODE | | - | SUMMAF | RY OF QUANTITIES | | | CONSTRUCTION 1 | YPE CODE | |
| | | | TOTAL | 0005 | 0021 | | | | | | | | | TOTAL | 0005 0021 | | |
| CODE NO | ITEM | UNIT | QUANTITIES | ROADWAY | 807FED | | | | | CODE NO | | ITEM | UNIT | QUANTITIES | ROADWAY 80%FED 80%FED | | |
| | | | | 80%FED 20% STA | 20% STA | | | | | | | | | | 20% STA 20% STA | | |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 3036 | 3036 | | | | | | *78000500 | THERMOPLASTI | C PAVEMENT MARKING - LINE | FOOT | 1467 | 1467 | | |
| | | | | | | | | | | | 8" | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 3036 | 3036 | | | | | | | | | | | | | |
| | | | | | | | | | | *78000600 | THERMOPLASTI | C PAVEMENT MARKING - LINE | FOOT | 1045 | 1045 | | |
| 70300210 | TEMPORARY PAVEMENT MARKING LETTERS AND | SQ FT | 619 | 619 | | | | | | | 12" | | | | | | |
| | | | | 015 | | | | | | | •• | | | | | | |
| | SYMBOLS | | | | | | | | | | | | | | | | |
| | | | | | | | | | | *78000650 | THERMOPLASTI | C PAVEMENT MARKING - LINE | FOOT | 280 | 250 30 | | |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 45029 | 45029 | | | | | | | 24" | | | | | | |
| 10300220 | | | 15025 | 15025 | | | | | | | <u> </u> | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 70300240 | TEMPORARY PAVEMENT MARKING - LINE 6" | FOOT | 2136 | 2136 | | | | | | *78100100 | RAISED REFLE | CTIVE PAVEMENT MARKER | EACH | 50 | 50 | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 70300250 | TEMPORARY PAVEMENT MARKING - LINE 8" | FOOT | 1467 | 1467 | | | | | | 78300200 | RAISED REFLE | CTIVE PAVEMENT MARKER | EACH | 30 | 30 | | |
| | | | | | | | | | | | REMOVAL | | | | | | |
| 70300000 | | FOOT | 1045 | 1045 | | | | | | | | | | | | | |
| 70300260 | TEMPORARY PAVEMENT MARKING - LINE 12" | FOOT | 1045 | 1045 | | | | | | | | | | | | | |
| | | | | | | | | | | 81028220 | UNDERGROUND | CONDUIT, GALVANIZED STEEL, | FOOT | 208 | 208 | | |
| 70300280 | TEMPORARY PAVEMENT MARKING - LINE 24" | FOOT | 250 | 250 | | | | | | | 3" DIA. | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 70300520 | PAVEMENT MARKING TAPE, TYPE III 4" | FOOT | 1025 | 1025 | | | | | | 81028240 | UNDERGROUND | CONDUIT, GALVANIZED STEEL, | FOOT | 205 | 205 | | |
| | | | | | | | | | | | 4" DIA. | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 72000100 | SIGN PANEL - TYPE 1 | SQ FT | 16.5 | | 16.5 | | | | | | | | | | | | |
| | | | | | | | | | | 87301215 | ELECTRIC CAB | LE IN CONDUIT, SIGNAL NO. | FOOT | 1410 | 1410 | | |
| 72000200 | SIGN PANEL - TYPE 2 | SQ FT | 56 | | 56 | | | | | | 14 2C | | | | | | |
| | | | | | | - | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| *78000100 | THERMOPLASTIC PAVEMENT MARKING - | SQ FT | 619 | 619 | | | | | | 87301225 | ELECTRIC CAB | LE IN CONDUIT, SIGNAL NO. | FOOT | 1739 | 1739 | | |
| | LETTERS AND SYMBOLS | | | | | | | | | | 14 3C | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| *78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE | FOOT | 45029 | 45029 | | | | | | 87301245 | ELECTRIC CAB | LE IN CONDUIT, SIGNAL NO. | FOOT | 2623 | 2623 | | |
| | 4" | | | | | | | | | | 14 5C | | | | | | |
| | | | | | | | | | | | 17 JC | | | | | | |
| | | | | | | | | | | | | | | | | | |
| *78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE | FOOT | 2461 | 2136 | 325 | | | | | 87301255 | ELECTRIC CAB | LE IN CONDUIT, SIGNAL NO. | FOOT | 908 | 908 | | |
| | 6" | | | | | | | | + | | 14 7C | | | | | PECIALTY ITEM | |
| | | | | | | | | | | | 17 /L | | | | | | |
| FILE NAME = pw:\\pianroom.dotJiilnoi | USER NAME = qurestilya DE | SIGNED - #www.n | | REVISED REVISED | | | | | STATE OF | ILLINOIS | | IL 120 (E OF I–94 TO IL | | | RAMPS) F.A.P. SECTION RTE. SECTION 333 2018-066-RS&S | | TOTAL SHEET SHEETS NO. 40 4 |
| | PLDT SCALE = 100,0000 1/ In. CH | ECKED - | | REVISED | - | |] | | | FRANSPORTA | | | Y OF QUANT | | | CONTRACT | 40 4 NO. 62G83 |
| L | PLOT DATE = 3/22/2019 DA | TE - | | REVISED | - | | | | | | | SCALE: SHEET NO. OF | SHEETS STA | . 1 | O STA. FED. ROAD DIST. NO. 1 ILLINOI | FED. AID PROJECT | |

| | | | URBAN | | | | | | | | | URBAN | | | | | |
|--------------------------------------|--------------------------------------|---------------------|------------|----------------------------------|----------|------|----------|-------------------|---------------|----------------------------|------------|------------|-------------------|--------------------|---------------------------|---------|-----------------------------------|
| | SUMMARY OF QUANTITIES | | | CONSTRUCT | ION TYPE | CODE | | - | SUMMAR | Y OF QUANTITIES | | | | CONSTRUC | CTION TYPE COD | DE | |
| | | | TOTAL | 0005 0021 | | | | | | | | TOTAL | 0005 | 0021 | | | |
| CODE NO | ITEM | UNIT | QUANTITIES | ROADWAY | | | | CODE NO | | ITEM | UNIT | QUANTITIES | ROADWAY 80%FED | 80%EED | | | |
| | | | | 80%FED 80%FED 20% STA 20% STA | | | | | | | | | 20% STA | 20% STA | | | |
| 87301900 | ELECTRIC CABLE IN CONDUIT, EQUIPMENT | FOOT | 554 | 554 | | | | 88030110 | SIGNAL HEAD, | LED, 1-FACE, 5-SECTION, | EACH | 2 | | 2 | | | |
| | | | | | | | | | | 1750 | | | | | | | |
| | GROUNDING CONDUCTOR, NO. 6 1C | | | | | | | | MAST-ARM MOUN | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 87700190 | STEEL MAST ARM ASSEMBLY AND POLE, 30 | EACH | 1 | 1 | | | | 88102717 | PEDESTRIAN SI | IGNAL HEAD, LED, 1-FACE, | EACH | 8 | | 8 | | | |
| | | | | | | | | | | | | | | | | | |
| | FT. | | | | | | | | BRACKET MOUN | TED WITH COUNTDOWN TIMER | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 87700200 | STEEL MAST ARM ASSEMBLY AND POLE, 32 | EACH | 1 | 1 | | | | 88200410 | | AL BACKPLATE, LOUVERED. | ЕАСН | 10 | | 10 | | | |
| 81100200 | STEEL MAST ARM ASSEMDLT AND FULL, JZ | EACH | 1 | | | | | 88200410 | | L DACKFLATE, LOUVERED, | EACH | 10 | | 10 | | | |
| | FT. | | | | | | | | FORMED PLAST | IC | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0770007- | | E LOUI | | | | | | | | | | 1070 | 1075 | | | | |
| 87700250 | STEEL MAST ARM ASSEMBLY AND POLE, 42 | EACH | 1 | | | | | *88600600 | DETECTOR LOOP | REPLACEMENT | FOOT | 1039 | 1039 | | | | |
| | FT. | | | | | | | | | | | | | | | | |
| | | | | | | | | 89501150 | RELOCATE EXIS | STING TRAFFIC SIGNAL POST | EACH | 4 | | 4 | | | |
| | | | | | | | | | | | | | | | | | |
| 87700270 | STEEL MAST ARM ASSEMBLY AND POLE, 46 | EACH | 1 | 1 | | | | | | | | | | | | | |
| | FT. | | | | | | | 89501400 | RELOCATE EXIS | STING EMERGENCY VEHICLE | EACH | 2 | | 2 | | | |
| | | | | | | | | | PRIORITY SYST | IEM, DETECTOR UNIT | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 87800100 | CONCRETE FOUNDATION, TYPE A | FOOT | 16 | 16 | | | | | | | | | | | | | |
| | | | | | | | | 89502200 | MODIFY EXIST | ING CONTROLLER | EACH | 1 | | 1 | | | |
| | | | | | | | | | | | | | | | | | |
| 87800415 | CONCRETE FOUNDATION, TYPE E 36-INCH | FOOT | 48 | 48 | | | | | | | | | | | | | |
| | DIAMETER | | | | | | | 89502210 | MODIFY EXIST | ING CONTROLLER CABINET | EACH | 1 | | 1 | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 12 | 12 | | | | 89502300 | REMOVE ELECT | RIC CABLE FROM CONDUIT | FOOT | 5947 | | 5947 | | | |
| | | | | | | | | | | | | | | | | | |
| 88030020 | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, | EACH | 8 | 8 | | | | 89502375 | REMOVE EXIST | ING TRAFFIC SIGNAL | ЕАСН | 1 | | 1 | | | |
| 00030020 | | | | | | | | 03302313 | | | | - | | • | _ | | |
| | MAST-ARM MOUNTED | | | | | | | | EQUIPMENT | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 88030050 | | ЕАСН | 6 | | | | | 80500300 | | | EACU | | | , | | | |
| 88030050 | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, | LACH | σ | 6 | | | | 89502380 | REMOVE EXIST | | EACH | | | 1 | | | |
| | BRACKET MOUNTED | | | | | | | | | | | | | | | | |
| | | | | | | | | 89502385 | REMOVE EXIST | ING CONCRETE FOUNDATION | EACH | 8 | | 8 | | | |
| | | | | | | | | | | | | | | | | | |
| 88030100 | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, | EACH | 2 | 2 | ļ | | | | | | | | | | | | |
| | BRACKET MOUNTED | | | | | | | X0324085 | EMERGENCY VE | HICLE PRIORITY SYSTEM LINE | FOOT | 329 | | 329 | | | |
| | | | | | | | | | SENSOR CABLE. | NO. 20 3/C | | | | | * SPECIALT # NON PART | Y ITEM | |
| | | | | | | | | | SENSON CADLE, | | | | | | | | |
| FILE NAME = pw:\\planroom.dotJillnol | | DESIGNED - | | REVISED - REVISED - | - | 5 | STATE OF | ILLINOIS | | IL 120 (E OF I–94 TO II | | | RAMPS) | 1116. | | | TOTAL SHEET SHEETS NO. 40 5 |
| | PLOT SCALE = 100.0000 ' / In. | CHECKED - DATE - | | REVISED - REVISED - | 1 | | | FRANSPORTA | TION | SCALE: SHEET NO. OF | SHEETS STA | | O STA. | | | ONTRACT | NO. 62G83 |
| L | -LUI DHIE - 3/22/2019 | | | NE 13ED - | 1 | | | | | JUNELI NU. UF | JILLIJ JIA | | U JIA. | FED. ROAD DIST. NO | . I JILLINUIS FED. ALD PR | UJELI | |

| | | | URBAN | | | | | | | | | | | | | | | | |
|--------------------------------------|--|--------------------------|------------|------------------------------|-------------------|----------|----------|------|----------|------------|----------------------------------|--------------------------|------------------|------------|------------------------------|--------------------------|------------------------|-------------------------|-----------------------------------|
| | SUMMARY OF QUANTITIES | | | LOC 1 | | ONSTRUCT | ION TYPE | CODE | | - | SUMMARY | Y OF QUANTITIES | | | LOC 1 | | UCTION TYPE | | I |
| | | | TOTAL | 0005 | 0021 | | | | | | | | | TOTAL | 0005 | 0021 | | | |
| CODE NO | ITEM | UNIT | QUANTITIES | ROADWAY 80%FED 20% STA | 80%FED 20% STA | | | | | CODE NO | | ITEM | UNIT | QUANTITIES | ROADWAY 80%FED 20% STA | 80%FED | | | |
| X0324599 | ROD AND CLEAN EXISTING CONDUIT | FOOT | 210 | | 210 | | | | | 70100310 | TRAFFIC CONTRO STANDARD 70142 | DL AND PROTECTION, 21 | L SUM | 1 | 1 | | | | |
| | | | | | | | | | | | | | | | | | | | |
| X0326862 | STRUCTURES TO BE ADJUSTED | EACH | 20 | 20 | | | | | | 70100320 | TRAFFIC CONTRC STANDARD 7014 | DL AND PROTECTION, 22 | L SUM | 1 | 1 | | | | |
| X1400201 | RADAR VEHICLE DETECTION SYSTEM, SINGLE | EACH | 2 | | 2 | | | | | 70100420 | TRAFFIC CONTRO | DL AND PROTECTION, 11 | EACH | 1 | 1 | | | | |
| | APPROACH, STOP BAR | | | | | | | | | | | 11 | | | | | | | |
| | | | | | | | | | | 70102620 | TRAFFIC CONTRC | DL AND PROTECTION, 01 | LSUM | 1 | 1 | | | | |
| x2020110 | GRADING AND SHAPING SHOULDERS | UNIT | 85 | 85 | | | | | | | STANDARD 7015 | 01 | | | | | | | |
| | | | | | | | | | | 70102622 | TRAFFIC CONTRO STANDARD 7015 | DL AND PROTECTION, 02 | L SUM | 1 | 1 | | | | |
| X4060004 | POLYMERIZED HOT-MIX ASPHALT SURFACE | TON | 2789 | 2789 | | | | | | | | | | | | | | | |
| | COURSE, STONE MATRIX ASPHALT, 9.5, N80 | | | | | | | | | 70102632 | TRAFFIC CONTRO STANDARD 7016 | DL AND PROTECTION, 02 | L SUM | 1 | 1 | | | | |
| #x5537800 | STORM SEWERS TO BE CLEANED 12" | FOOT | 100 | 100 | | | | | | 70102635 | TRAFFIC CONTRC STANDARD 7017 | DL AND PROTECTION, | L SUM | 1 | 1 | | | | <u> </u> |
| | | | | | | | | | | | STANDAND 7017 | 01 | | | | | | | |
| x6030310 | FRAMES AND LIDS TO BE ADJUSTED | EACH | 2 | 2 | | | | | | | | | | | | | | | |
| | (SPECIAL) | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| x7030005 | TEMPORARY PAVEMENT MARKING REMOVAL | SO FT | 49927 | 49927 | | | | | | | | | | | | | | | |
| x8760200 | ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 4 | | 4 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Z0004562 | COMBINATION CONCRETE CURB AND GUTTER | FOOT | 1075 | 1000 | 75 | | | | | | | | | | | | | | |
| | REMOVAL AND REPLACEMENT | | | | | | | | | | | | | | | | | | |
| #Z0018500 | DRAINAGE STRUCTURES TO BE CLEANED | EACH | 27 | 27 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | RE | ev Ms |
| Z0030850 | TEMPORARY INFORMATION SIGNING | SO FT | 51.4 | 51.4 | | | | | | | | | | | | | * SPECI | ALTY ITEM ARTICIPATI | |
| | | | | | | | | | | | | | | | | | # NON P | | |
| FILE NAME = pw:\\planroom.dot.JIIIno | USER NAME = qureshiya [] Isgov:#WID0T\Documents\D00T Offices\District \Projects\D1013IB\CADData\Destgn\D1013IB\strict | DESIGNED - DARGAWIN - | | REVISED REVISED | | | | 9 | STATE OF | ILLINOIS | | | TO IL 43 & AT IL | | RAMPS) | F.A.P. RTE. 333 20 | SECTION | | TOTAL SHEET SHEETS NO. 40 6 |
| | PLDT SCALE = 100,0000 ' / In. 0 | CHECKED - | | REVISED | - | | 1 | | | TRANSPORTA | | | UMMARY OF QUANT | | | | 18-066-RS&SR | | 40 6 NO. 62G83 |
| | PLOT DATE = 3/22/2019 | DATE - | | REVISED | - | | | | | | | SCALE: SHEET NO. | OF SHEETS STA | . т | O STA. | FED. ROAD DIST. | NO. 1 ILLINOIS FED. A | D PROJECT | |







| PAVEMENT RESURFACING POLY. HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5 N80; 1 3/4" POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" S. PATCHING CLASS D PATCHES (HMA BINDER IL-19 mm) HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM) HMA SHOULDER, 8" HMA SURFACE COURSE, MIX "D", NTO (IL-9.5MM); 1 3/4" HMA BINDER COURSE, IL-19.0, NTO; 6 1/4" RAMP & SHOULDER RESURFACING HMA SURFACE COURSE, MIX "D", NTO (IL-9.5 MM); 1 3/4" | | |
|--|---|-------|
| PAVEMENT RESURFACINGPOLY. HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5 N80; 1 3/4"POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4"3.PATCHINGCLASS D PATCHES (HMA BINDER IL-19 mm)HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM)HMA SHOULDER, 8"HMA SURFACE COURSE, MIX "D", N70 (IL-9.5MM); 1 3/4"HMA BINDER COURSE, IL-19.0, N70; 6 1/4"RAMP & SHOULDER RESURFACINGHMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4"HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4"HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4"HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4"HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4"HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4"HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4"HMA SURFACE LEVELING BINDER (MM), IL-4.75, N50; 3/4" | HOT-MIX ASPHALT MIXTURE REQUI | REME |
| POLY. HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5 N80; 1 3/4" 3. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" 3. PATCHING | MIXTURE TYPE | AIR \ |
| POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" 3. PATCHING CLASS D PATCHES (HMA BINDER IL-19 mm) 4 HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM) 4 HMA SHOULDER, 8" 4 HMA SURFACE COURSE, MIX "D", N70 (IL-9.5MM); 1 3/4" 4 HMA BINDER COURSE, IL-19.0, N70; 6 1/4" 4 RAMP & SHOULDER RESURFACING 4 HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4" 4 POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" 3. | PAVEMENT RESURFACING | |
| PATCHING CLASS D PATCHES (HMA BINDER IL-19 mm) HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM) HMA SHOULDER, 8'' HMA SURFACE COURSE, MIX ''D'', NTO (IL-9.5MM); 1 3/4'' HMA BINDER COURSE, IL-19.0, NTO; 6 1/4'' RAMP & SHOULDER RESURFACING HMA SURFACE COURSE, MIX ''D'', NTO (IL-9.5 MM); 1 3/4'' 42 POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4'' | POLY. HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5 N80; 1 3/4" | 3.5 |
| CLASS D PATCHES (HMA BINDER IL-19 mm) 4 HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM) 4 HMA SHOULDER, 8'' 4 HMA SURFACE COURSE, MIX ''D'', N70 (IL-9.5MM); 1 3/4'' 4 HMA BINDER COURSE, IL-19.0, N70; 6 1/4'' 4 RAMP & SHOULDER RESURFACING 4 HMA SURFACE COURSE, MIX ''D'', N70 (IL-9.5 MM); 1 3/4'' 4 POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4'' 3. | POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" | 3.5 |
| HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM)4HMA SHOULDER, 8''4HMA SURFACE COURSE, MIX ''D'', N70 (IL-9.5MM); 1 3/4''4HMA BINDER COURSE, IL-19.0, N70; 6 1/4''4RAMP & SHOULDER RESURFACING4HMA SURFACE COURSE, MIX ''D'', N70 (IL-9.5 MM); 1 3/4''4POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4''3. | PATCHING | |
| HMA SHOULDER, 8" HMA SURFACE COURSE, MIX "D", N70 (IL-9.5MM); 1 3/4" 4" HMA BINDER COURSE, IL-19.0, N70; 6 1/4" 4" RAMP & SHOULDER RESURFACING 4" HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4" 4" POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" 3. | CLASS D PATCHES (HMA BINDER IL-19 mm) | 4% |
| HMA SURFACE COURSE, MIX "D", N70 (IL-9.5MM); 1 3/4" 47 HMA BINDER COURSE, IL-19.0, N70; 6 1/4" 47 RAMP & SHOULDER RESURFACING 47 HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4" 47 POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" 3. | HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM) | 47 |
| HMA BINDER COURSE, IL-19.0, N70; 6 1/4" 47 RAMP & SHOULDER RESURFACING 47 HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4" 47 POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" 3. | HMA SHOULDER, 8" | |
| RAMP & SHOULDER RESURFACINGHMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4"POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4"3. | HMA SURFACE COURSE, MIX "D", N70 (IL-9.5MM); 1 3/4" | 4% |
| HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4" 4" POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" 3. | HMA BINDER COURSE, IL-19.0, N70; 6 1/4" | 4% |
| POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" 3. | RAMP & SHOULDER RESURFACING | |
| | HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 MM); 1 3/4" | 4% |
| QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY C | POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50; 3/4" | 3.5 |
| | QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALI | TY CO |

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTATIES IS 112 LBS/SQ YD/IN.

NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

NOTE THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

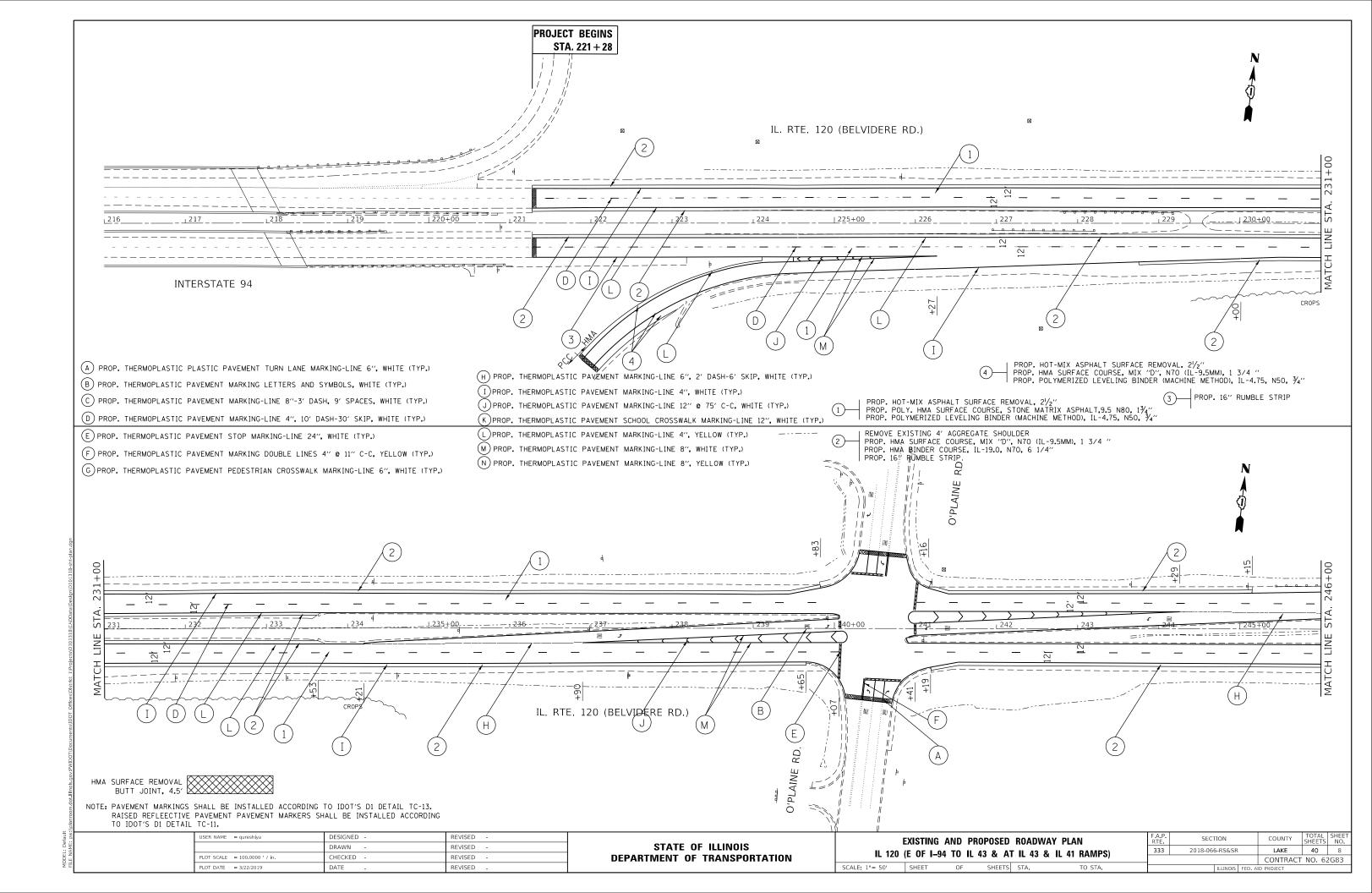
| FILE NAME = | USER NAME = qureshiya | DESIGNED - | REVISED - | | IL 120 (E OF I–94 TO IL 43 & AT IL 43 & IL 41 RAMPS) | F.A.P. RTF. | SECTION | COUNTY | TOTAL SHEET |
|--|--|--|-----------|------------------------------|--|----------------|-----------------------------|-------------|-------------|
| pw://planroom.dot.illinois.gov:PWIDOT/Do | cuments\IDOT_Offices\District_I\Projects\D10 | 1318\ DRXWN a\Design\D101318-sht-plan.dgn | REVISED - | STATE OF ILLINOIS | · · · · · · · · · · · · · · · · · · · | 333 | 2018-066-RS&SR | LAKE | 40 7 |
| | | In CHECKED - REVISED - DEPART | | DEPARTMENT OF TRANSPORTATION | EXISTING & PROPOSED TYPICAL SECTIONS | | | CONTRACT | T NO. 62G83 |
| | PLOT DATE = 3/22/2019 DATE - | | REVISED - | | SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. RO. | D DIST. NO. 1 ILLINOIS FED. | AID PROJECT | |

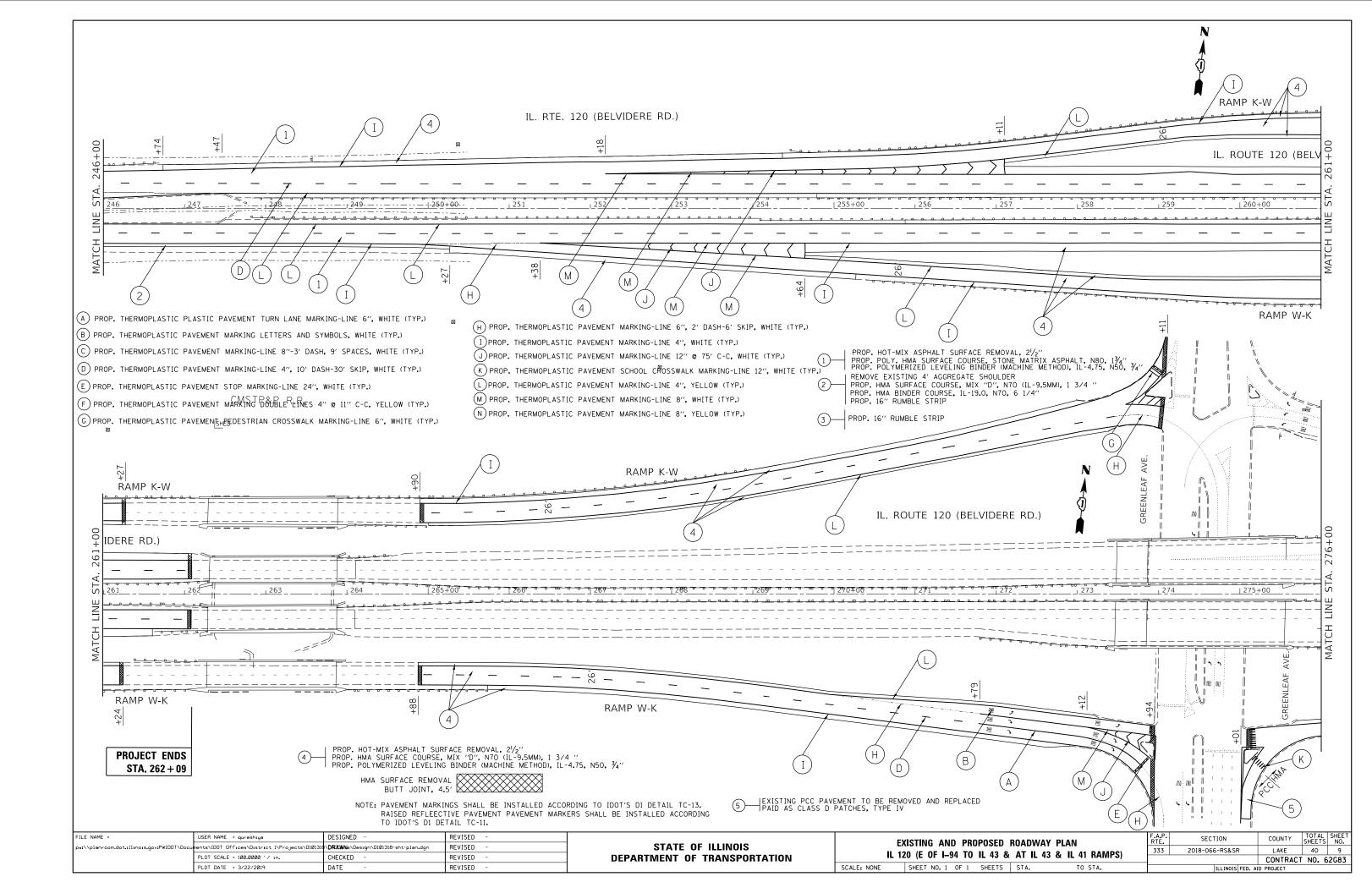
LEGEND

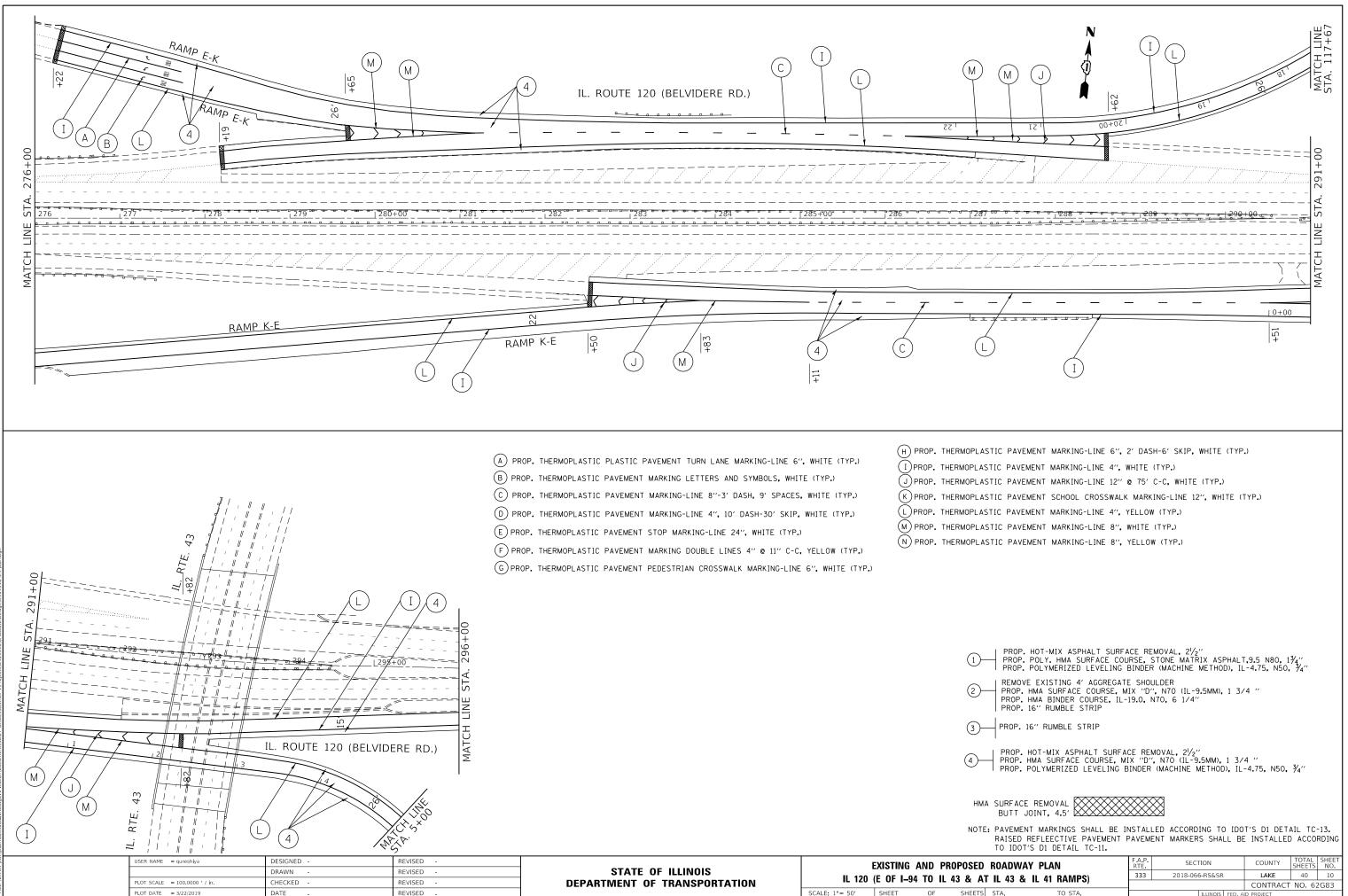
- 1. EXISTING P.C. CONCRETE PAVEMENT ± 10"
- 2. EXISTING HMA SURFACE COURSE ± 3 3/4 " (AFTER MILLING)
- 3. EXISTING AGGREGATE SHOULDER, 8"
- 4. EXISTING PAVEMENT MARKING
- 5. PROPOSED AGGREGRATE WEDGE SHOULDER, TYPE B
- 6. PROPOSED GRADING AND SHAPING SHOULDER
- 7. PROPOSED HMA SURFACE REMOVAL, 2 1/2 "
- 8. PROPOSED HMA BINDER COURSE, N70, 6 1/4"
- 9. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4 "
- PROPOSED POLY. HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5 N80, 1 3/4 " 11.
- 12. PROPOSED AGGREGRATE SHOULDER REMOVAL
- 13. PROPOSED PAVEMENT MARKING
- 14. PROPOSED SHOULDER RUMBLE STRIP, 16"
- 15. PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 3/4 "

RAMPS E, F, K, & L: EXISTING COMBINATION CONCRETE CURB AND GUTTER # # ramps e, f, k, & L: proposed combination concrete curb and gutter

| INTS | QUALITY MANAGEMENT |
|-----------------|--|
| VOIDS(%) @ Ndes | PROGRAM (QMP) |
| | |
| % @ 80 GYR. | QCP |
| 5% @ 50 GYR. | QC/QA |
| | |
| % @ 70 GYR. | QC/QA |
| % @ 70 GYR. | QC/QA |
| | |
| @ 70 GYR. | A0/30 |
| @ 70 GYR. | AQ/JQ |
| | |
| @ 70 GYR. | QC/QA |
| % @ 50 GYR. | AC/DA |
| NTROL FOR PERF | ORMANCE (QCP); PAY FOR PERFORMANCE (PFP) |
| | |



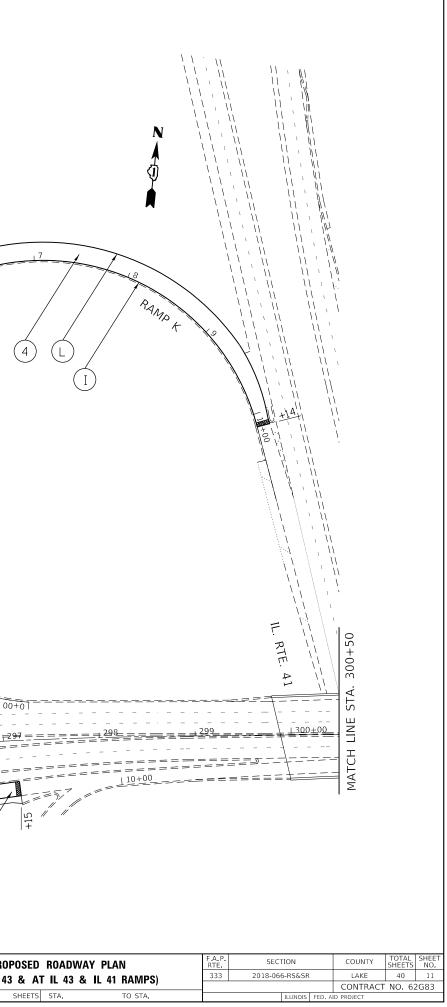


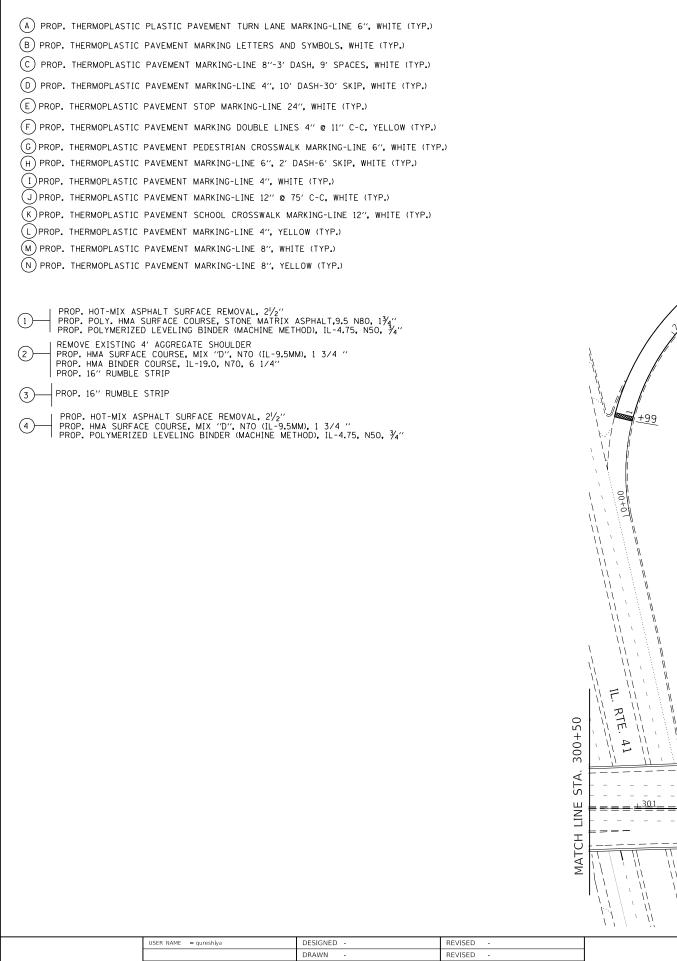


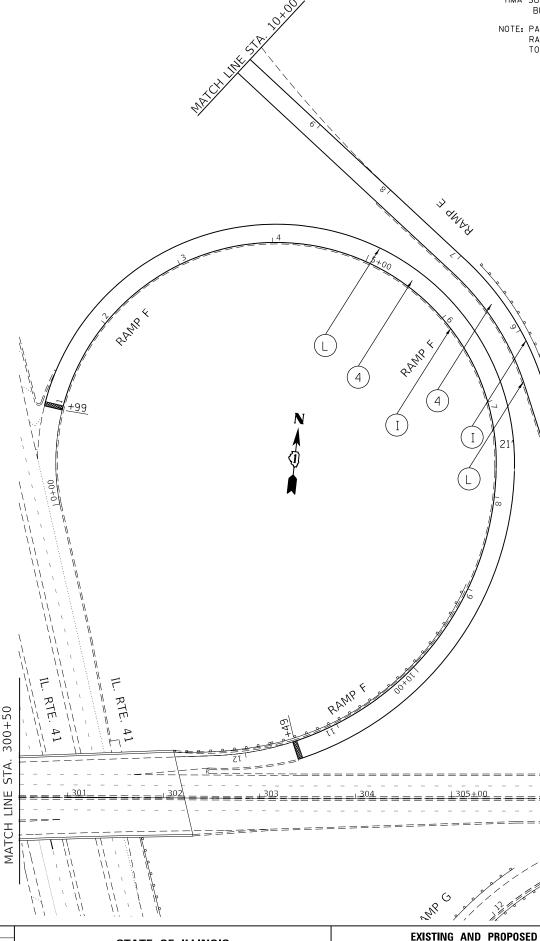
ODEL: Default LE NAME: pw:\\.

0' SHEET OF

| ORTATION | IL 120 | (E OF I-94 | |
|----------|--------|------------|----|
| | SCALE: | SHEET | OF |







| USER NAME = qureshiya | DESIGNED - DRAWN - | REVISED - REVISED - | STATE OF ILLINOIS | _ | EXISTING A | | |
|-------------------------------|-----------------------|------------------------|------------------------------|----------|-------------------------|----|--------|
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | IL 120 / | (E OF I-94 [·] | | 3& A |
| PLOT DATE = 3/22/2019 | DATE - | REVISED - | | SCALE: | SHEET | OF | SHEETS |

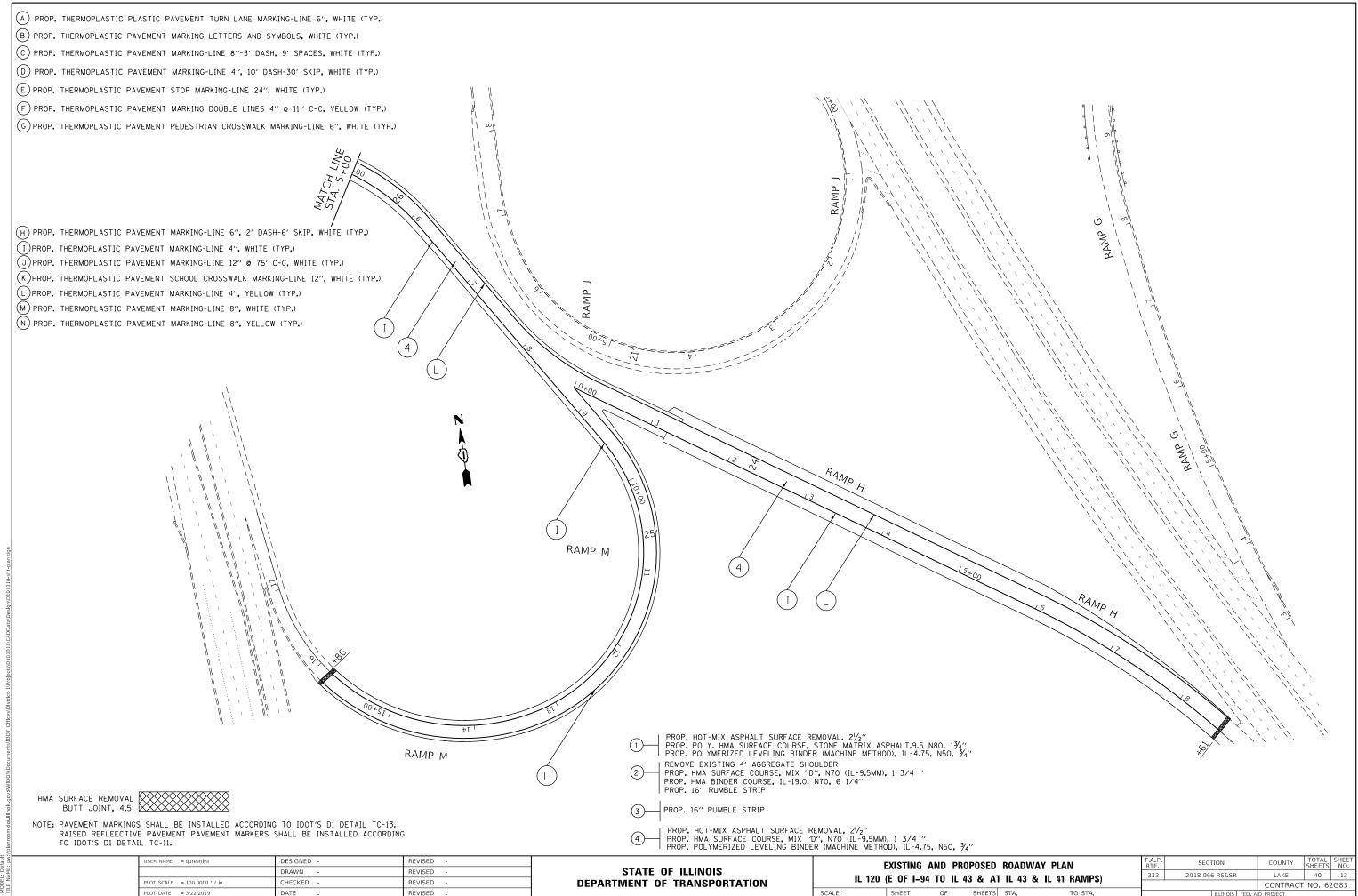


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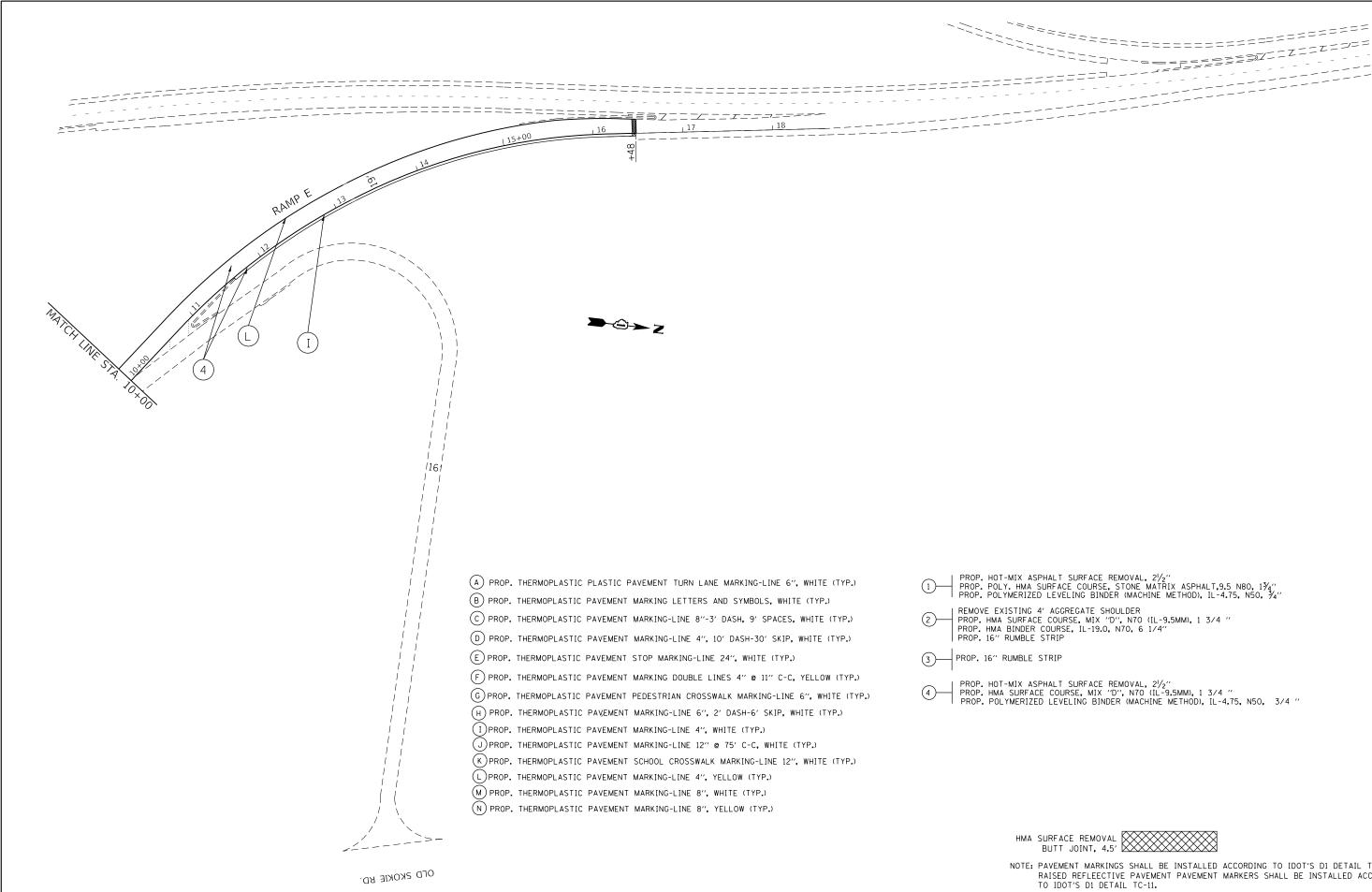
NOTE: PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S DI DETAIL TC-13. RAISED REFLEECTIVE PAVEMENT PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO IDOT'S DI DETAIL TC-11.

N

| THE HARD | | <u>→ → → → → → → → → → → → → → → → → → → </u> | | |
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| | . | <u>115+00</u> | 16 | |
| ED ROADWAY PLAN | F.A.P. RTE | SECTION | COUNTY | TOTAL SHEET SHEETS NO. |
| AT IL 43 & IL 41 RAMPS) | 333 | 2018-066-RS&SR | LAKE | 40 12 |
| TS STA. TO STA. | | ILLINOIS FED. A | CONTRACT | F NO. 62G83 |
| | | TEEINOID FED. A | is morei | |



| D ROADWAY PLAN AT IL 43 & IL 41 RAMPS) | | F.A.P. RTE SECTION | | | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|------------------|-----------------------|----------|---------|------------|-----------------|--------------|
| | | 2018-066-RS&SR | | | LAKE | 40 | 13 |
| | CONTRACT NO. 62G | | | | | | 2G83 |
| TS STA. TO STA. | | | ILLINOIS | FED. AI | ID PROJECT | | |



| USER NAME = qureshiya | DESIGNED - | REVISED - | | | EXISTING A | | OPOSED |
|-----------------------------|------------|-----------|------------------------------|----------|------------|----|---------|
| | DRAWN - | REVISED - | STATE OF ILLINOIS | | | | |
| PLOT SCALE = 100.0004 / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | IL 120 (| (E OF I-94 | | 43 & AT |
| PLOT DATE = 3/22/2019 | DATE - | REVISED - | | SCALE: | SHEET | OF | SHEETS |

PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2¹/₂" PROP. POLY. HMA SURFACE COURSE, STONE MATRIX ASPHALT.9.5 N80, 1³/₄" PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, ³/₄" 2 REMOVE EXISTING 4' AGGREGATE SHOULDER PROP. HMA SURFACE COURSE, MIX "D", N70 (IL-9.5MM), 1 3/4 " PROP. HMA BINDER COURSE, IL-19.0, N70, 6 1/4" PROP. 16" RUMBLE STRIP

PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2¹/2" PROP. HMA SURFACE COURSE, MIX "D", N70 (IL-9.5MM), 1 3/4 " PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4 "

HMA SURFACE REMOVAL BUTT JOINT, 4.5'

NOTE: PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S DI DETAIL TC-13. RAISED REFLEECTIVE PAVEMENT PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-11.

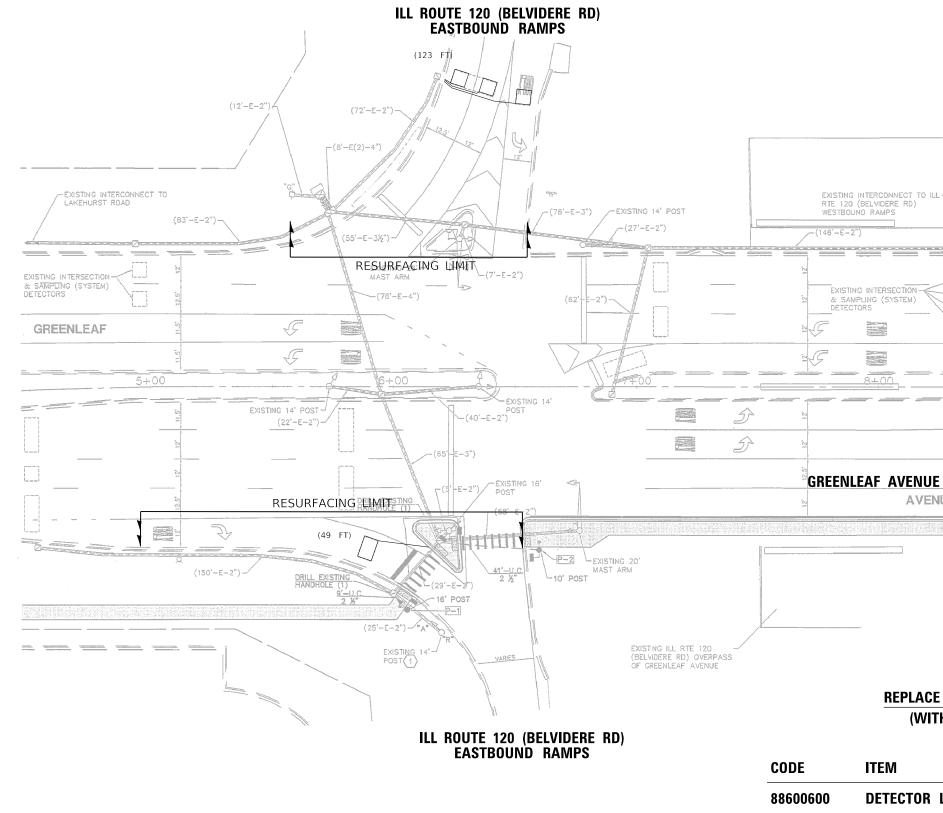
:====== ----

| D ROADWAY PLAN | | | F.A.P. SECTION | | | | COUNTY | TOTAL | SHEET NO. |
|-------------------------|---------------------------|---------|----------------|---------|-----------------|--------------------|-----------|-------|--------------|
| AT IL 43 & IL 41 RAMPS) | | 333 | 2018-06 | 5-RS&SR | | LAKE | 40 | 14 | |
| _ | AT IL 43 & IL 41 KAIVIPS) | | | | | CONTRACT NO. 62G83 | | | |
| TS | STA. | TO STA. | | | ILLINOIS | FED. AI | D PROJECT | | |

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS.

2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



| USER NAME = kobylkaka | DESIGNED - | КК | REVISED - | | | DETECT | | P REPL | | T PLAN | F.A.R. RTF | SECTION | COUNTY | TOTAL SHEET |
|------------------------------|------------|------------|-----------|------------------------------|---|--------|---|--------|--------|---------|---------------|----------------|-------------|-------------|
| | DRAWN - | КК | REVISED - | STATE OF ILLINOIS | IL. RTE. 120 (BELVIDERE RD.) (E OF I–94 TO IL. RTE. 43 RAMPS) | | | | | | | 2018-066-RS&SR | LAKE | 40 15 |
| PLOT SCALE = 40.0000 ' / in. | CHECKED - | LP | REVISED - | DEPARTMENT OF TRANSPORTATION | | | IL. NIE. 120 (DELVIDENE ND.) (E UF 1-94 TU IL. NIE. 43 NAIVIF3) | | | | | | CONTRAC | F NO. 62G83 |
| PLOT DATE = 3/22/2019 | DATE - | 02/26/2019 | REVISED - | | SCALE: 1":20' | SHEET | OF | SHEETS | S STA. | TO STA. | | ILLINOIS FED | AID PROJECT | |

| ERCONNECT TO II ELVIDERE RD) RAMPS | L |
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AVENUE

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

ITEM

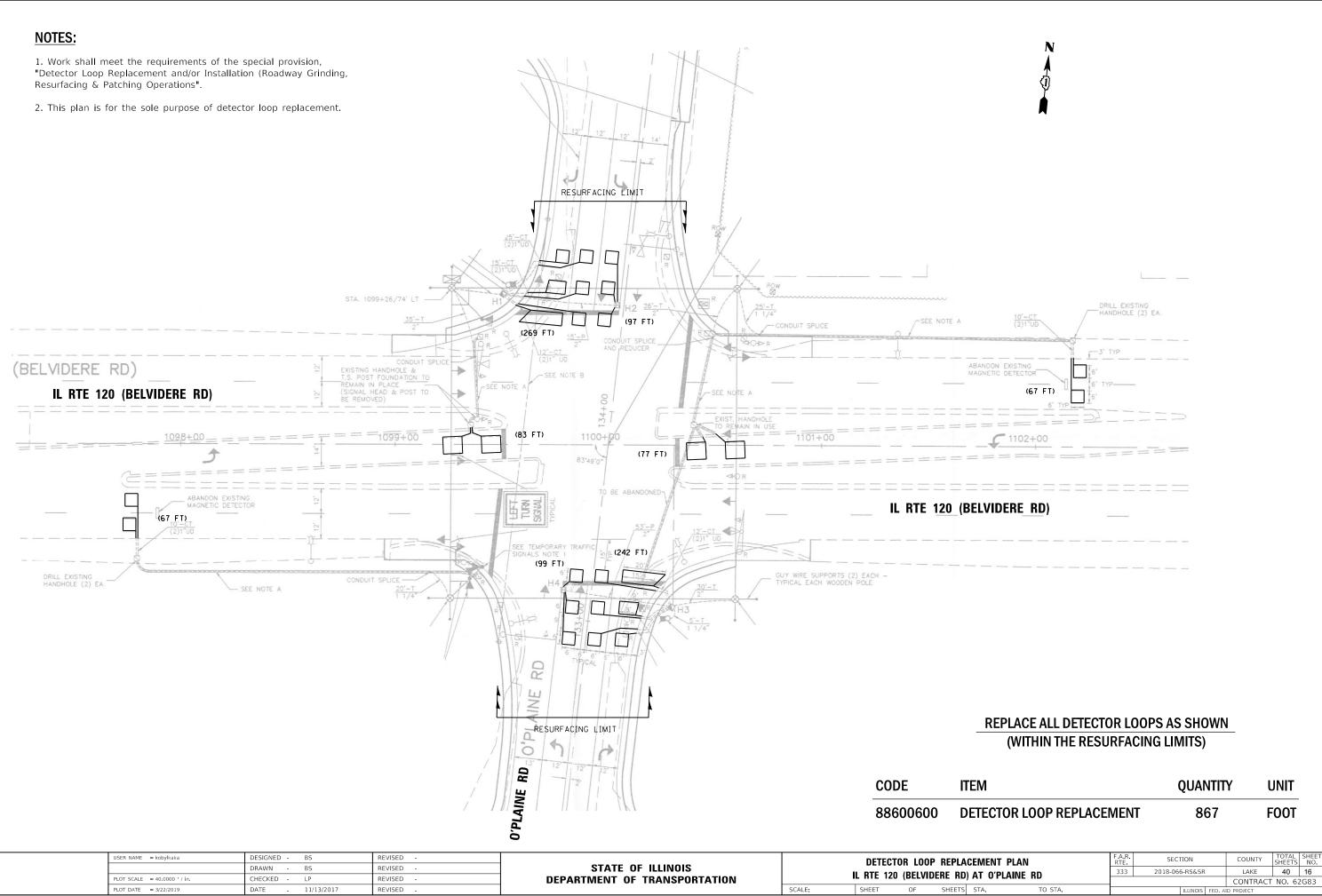
QUANTITY UNIT

DETECTOR LOOP REPLACEMENT

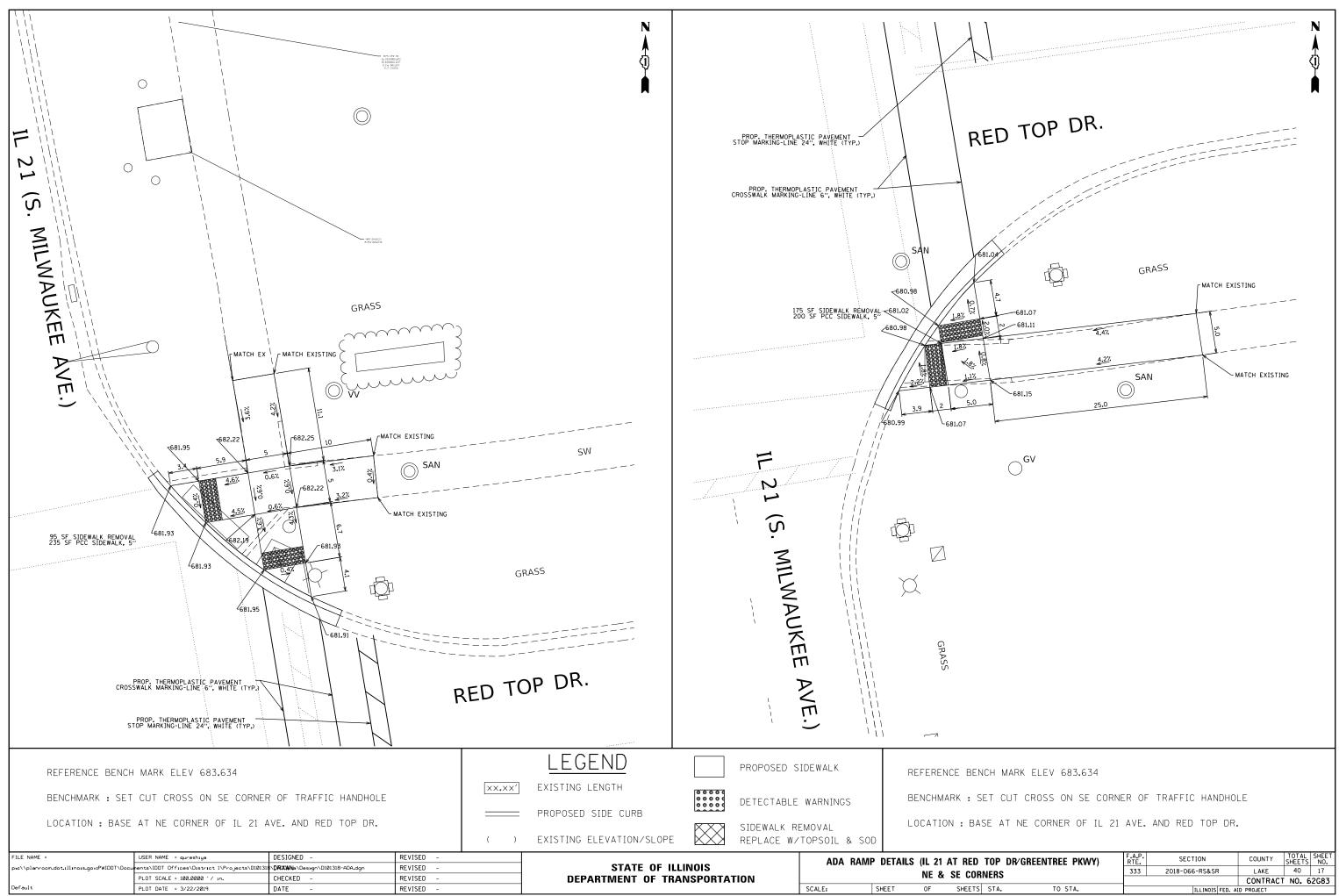
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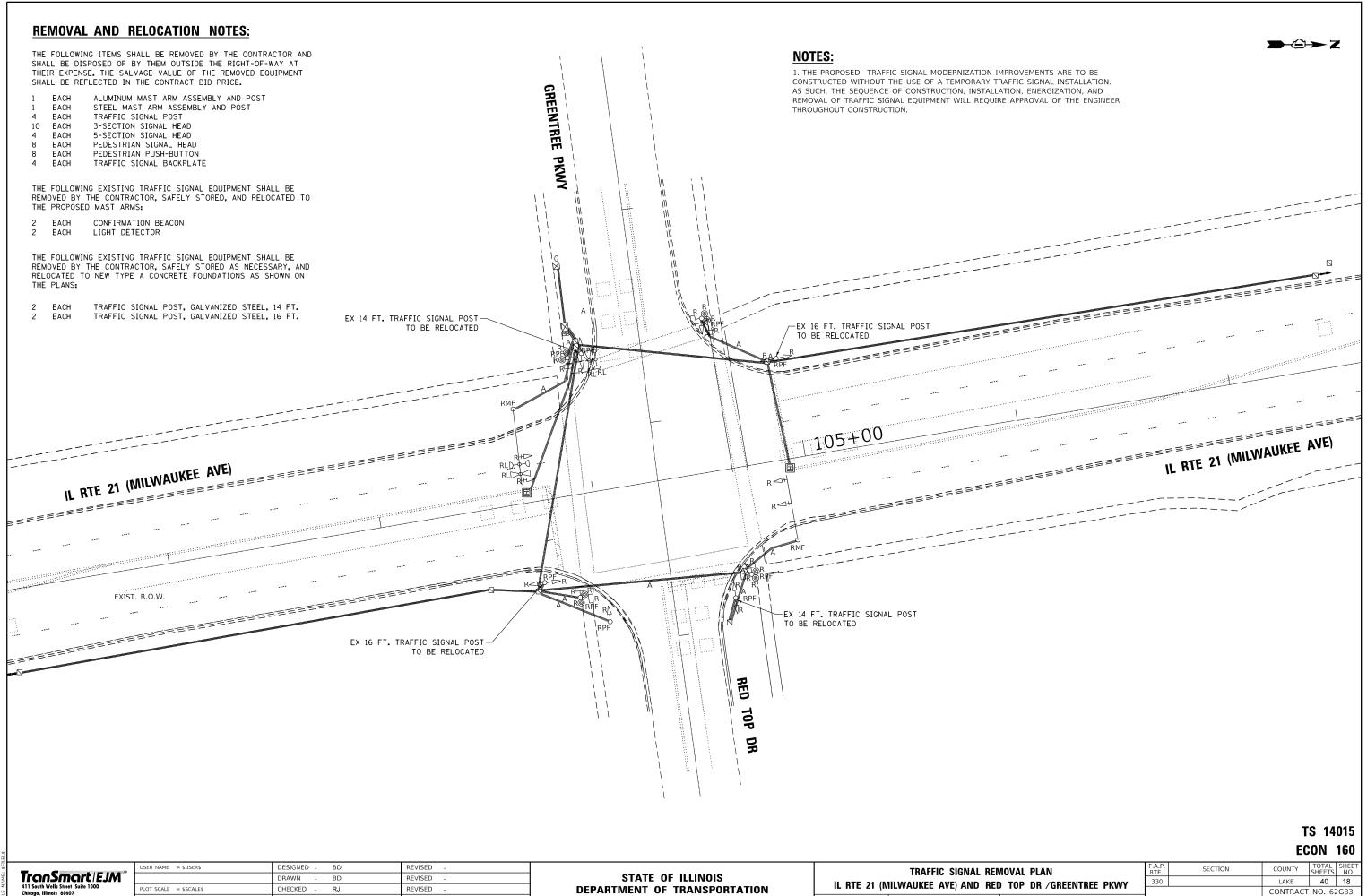
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| | DRAWN - BS | REVISED - | STATE OF ILLINOIS | | | | |
|----------------------------|-------------------|-----------|------------------------------|--------|-----------|----------|--------------|
| PLOT SCALE = 40.0000 / in. | CHECKED - LP | REVISED - | DEPARTMENT OF TRANSPORTATION | | L RTE 120 | (BELVIDE | ERE RD) AT (|
| PLOT DATE = 3/22/2019 | DATE - 11/13/2017 | REVISED - | | SCALE: | SHEET | OF | SHEETS STA. |
| | | | | | | - | |

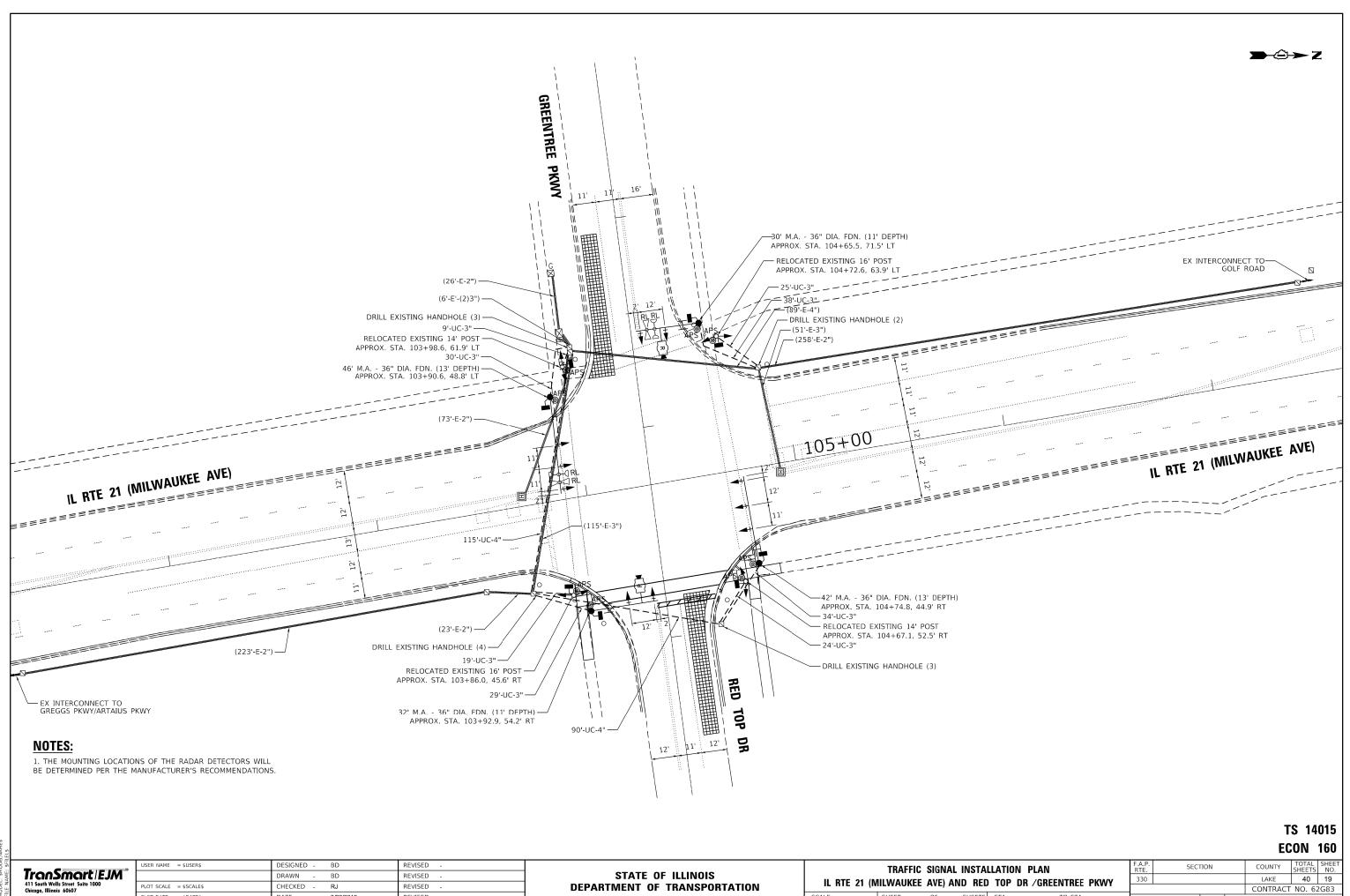


| | IOP DR/GREEN | IKEE PKVVY) | RTE. | SECTION | CODINT | SHEETS | NO. | |
|-------|--------------|-------------|----------------|-----------------|-----------|--------|-----|--|
| RNERS | | 333 | 2018-066-RS&SR | LAKE | 40 | 17 | | |
| | | | | CONTRACT | NO. 6 | 2683 | | |
| 5 | STA. | TO STA. | | ILLINOIS FED. A | D PROJECT | | | |
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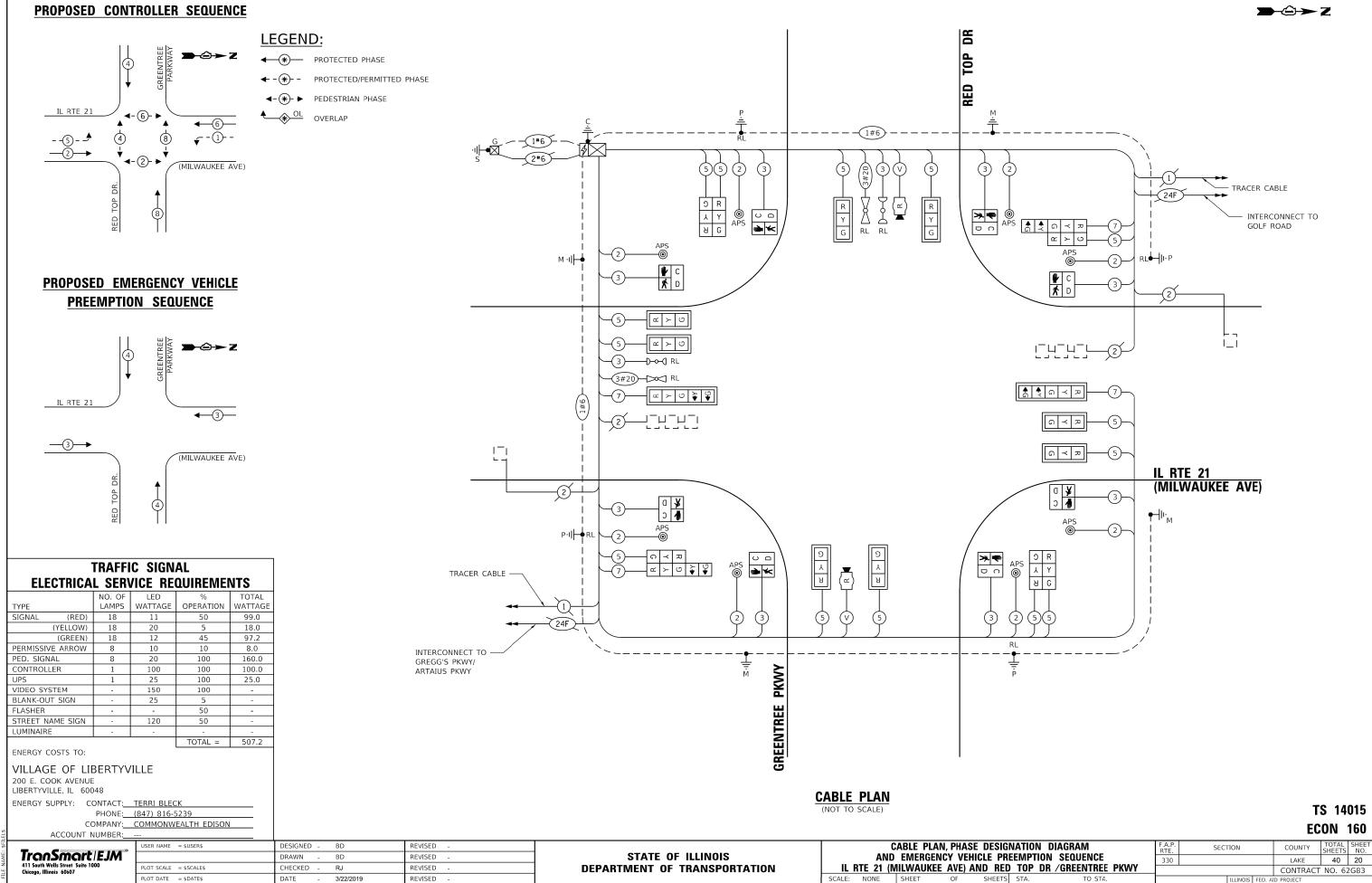
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| MODE : \$FIL | | USER NAME = \$USER\$ | DESIGNED - BD | REVISED - | | | TRA | AFFIC SI | GNAL REMO | OVAL PLAN | F.A.P. RTE. | · SECTION | COUNTY | TOTAL SHEETS |
|-----------------|--|------------------------|------------------|-----------|------------------------------|--|-------|----------|-----------|-----------------------|----------------|---------------|-------------|-----------------|
| L: \$I IAME | TranSmart/EJM ** | | DRAWN - BD | REVISED - | STATE OF ILLINOIS | II DTE 21 / | | | | TOP DR /GREENTREE PKW | 330 | | LAKE | 40 |
| ODE | 411 South Wells Street Suite 1000 Chicago, Illinois 60607 | PLOT SCALE = \$SCALE\$ | CHECKED - RJ | REVISED - | DEPARTMENT OF TRANSPORTATION | IL RTE 21 (MILWAUKEE AVE) AND RED TOP DR /GREENTREE PKWY | | | | | | • | CONTRA | ACT NO. 67 |
| ΣĒ | | PLOT DATE = \$DATE\$ | DATE - 3/22/2019 | REVISED - | | SCALE: | SHEET | OF | SHEETS | STA. TO STA. | | ILLINOIS FED. | AID PROJECT | |
| | | | | | | | | | | | | | | |



| : \$MODE ME: \$FIL | TranSmart/EJM** | USER NAME = \$USER\$ | DESIGNED - BD DRAWN - BD | REVISED - REVISED - | STATE OF ILLINOIS | | TRAFFIC SIGNAL INST RTE 21 (MILWAUKEE AVE) AND RE | | |
|-----------------------|--|------------------------|-----------------------------|------------------------|------------------------------|--------------|--|--------|--------|
| DDEL: | 411 South Wells Street Suite 1000 Chicago, Illinois 60607 | PLOT SCALE = \$SCALE\$ | CHECKED - RJ | REVISED - | DEPARTMENT OF TRANSPORTATION | IL RTE 21 (N | AILWAUKEE | AVE) A | ND RED |
| ΣE | | PLOT DATE = \$DATE\$ | DATE - 3/22/2019 | REVISED - | | SCALE: | SHEET | OF | SHEETS |

S STA. TO STA. ILLINOIS FED. AID PROJECT



PLOT DATE = \$DATE\$

DATE

3/22/2019

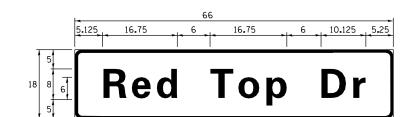
REVISED



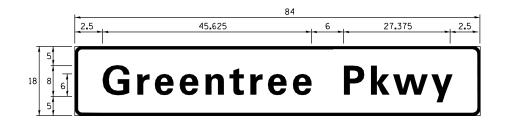
| | AIION | | RTE. | SECT | ION | | COONT | SHEETS | NO. | Ĺ |
|----|--------|--------------------|------|------|----------|---------|-----------|--------|-----|---|
| | EEMPTI | | 330 | | | | LAKE | 40 | 20 | l |
| ED | TOP | DR /GREENTREE PKWY | | | | | CONTRACT | NO. 62 | G83 | l |
| ٢S | STA. | TO STA. | | | ILLINOIS | FED. AI | D PROJECT | | | l |
| | | | | | | | | | | 1 |

SIGN PANEL – TYPE 1 OR TYPE 2

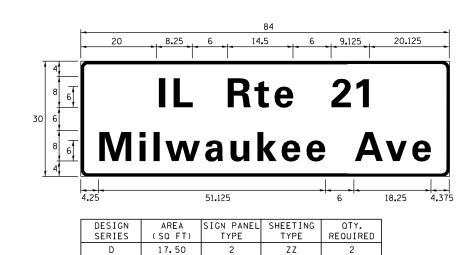
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



| DESIGN | AREA | SIGN PANEL | SHEETING | OTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 8.25 | 1 | ZZ | 2 |



| DESIGN | AREA | SIGN PANEL | SHEETING | OTY. |
|--------|---------|------------|----------|----------|
| SERIES | (SQ FT) | TYPE | TYPE | REQUIRED |
| D | 10.5 | 2 | ZZ | 2 |



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

PLOT DATE = \$DATE\$

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|---|-------|---------------|
| SIGN PANEL - TYPE 1 | SQ FT | 16.5 |
| SIGN PANEL - TYPE 2 | SQ FT | 56 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 208 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 205 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1,410 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 1,739 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 2,623 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 908 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 554 |
| STEEL MAST ARM ASSEMBLY AND POLE, 30 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 32 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 42 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 46 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 16 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 48 |
| DRILL EXISTING HANDHOLE | EACH | 12 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED | EACH | 8 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 6 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED | EACH | 2 |
| PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 8 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 10 |
| RELOCATE EXISTING TRAFFIC SIGNAL POST | EACH | 4 |
| RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT | EACH | 2 |
| MODIFY EXISTING CONTROLLER | EACH | 1 |
| MODIFY EXISTING CONTROLLER CABINET | EACH | 1 |
| REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 5,947 |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| REMOVE EXISTING HANDHOLE | EACH | 1 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 8 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | FOOT | 329 |
| ROD AND CLEAN EXISTING CONDUIT | FOOT | 210 |
| RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR | EACH | 2 |
| ACCESSIBLE PEDESTRIAN SIGNALS | EACH | 4 |

Ν ١E JSER NAME = \$USER\$ DESIGNED - BD REVISED TranSmart / EJM *** 411 South Wells Street Suite 1000 Chicago, Illinois 60607 STATE OF ILLINOIS DRAWN BD REVISED PLOT SCALE = \$SCALE\$ CHECKED -RJ REVISED **DEPARTMENT OF TRANSPORTATION**

REVISED

3/22/2019

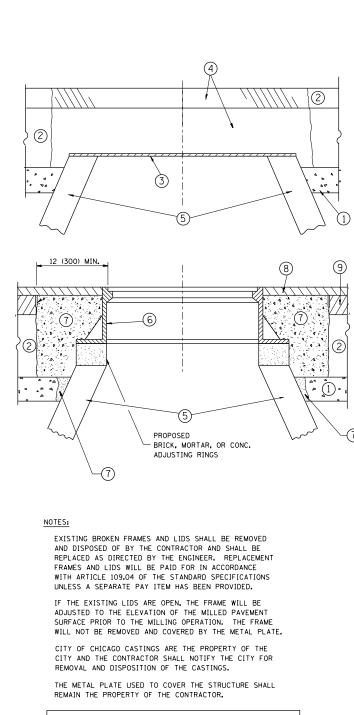
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MAST ARM MOUNTED STRE AND SCHEDULE OF QU IL RTE 21 (MILWAUKEE AVE) AND RED 1 SCALE: NONE SHEET OF SHEET

SCHEDULE OF QUANTITIES

TS 14015 ECON 160

| | T NAME | | F.A.P. RTE. | SECT | TON | | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|------------------------|---------|----------------|------|----------|---------|-----------|-----------------|--------------|
| UANTITIES | | 330 | | | | LAKE | 40 | 21 | |
| _ | TOP DR /GREENTREE PKWY | | | | | | CONTRACT | NO. 62 | 2G83 |
| ГS | STA. | TO STA. | | | ILLINOIS | FED. AI | D PROJECT | | |



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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

| FILE NAME = | US | SER NAME = qureshiya | DESIGNED - R. SHAH | REVISED - R. WIEDEMAN 05-14-04 | | | DETAILS FOR | F.A.P. SECTION | COUNTY TOTAL SHEET |
|--------------------------|-------------------------|---|---|--------------------------------|------------------------------|-------------|---|-------------------------------------|--------------------|
| pw://planroom.dot.illing | ois.gov:PWIDOT\Document | ts\IDOT Offices\District 1\Projects\D10 | 1318\ DRAWN o\Design\DistStd.dgn | REVISED - R. BORO 01-01-07 | STATE OF ILLINOIS | | | 333 2018-066-RS&SR | LAKE 40 22 |
| | PL | OT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - R. BORO 03-09-11 | DEPARTMENT OF TRANSPORTATION | | FRAMES AND LIDS ADJUSTMENT WITH MILLING | BD600-03 (BD-8) | CONTRACT NO. 62G83 |
| | PL | OT DATE = 3/22/2019 | DATE - 10-25-94 | REVISED - R. BORO 12-06-11 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. | AID PROJECT |

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

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

LEGEND

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

(5) EXISTING STRUCTURE

LOCATION OF STRUCTURES:

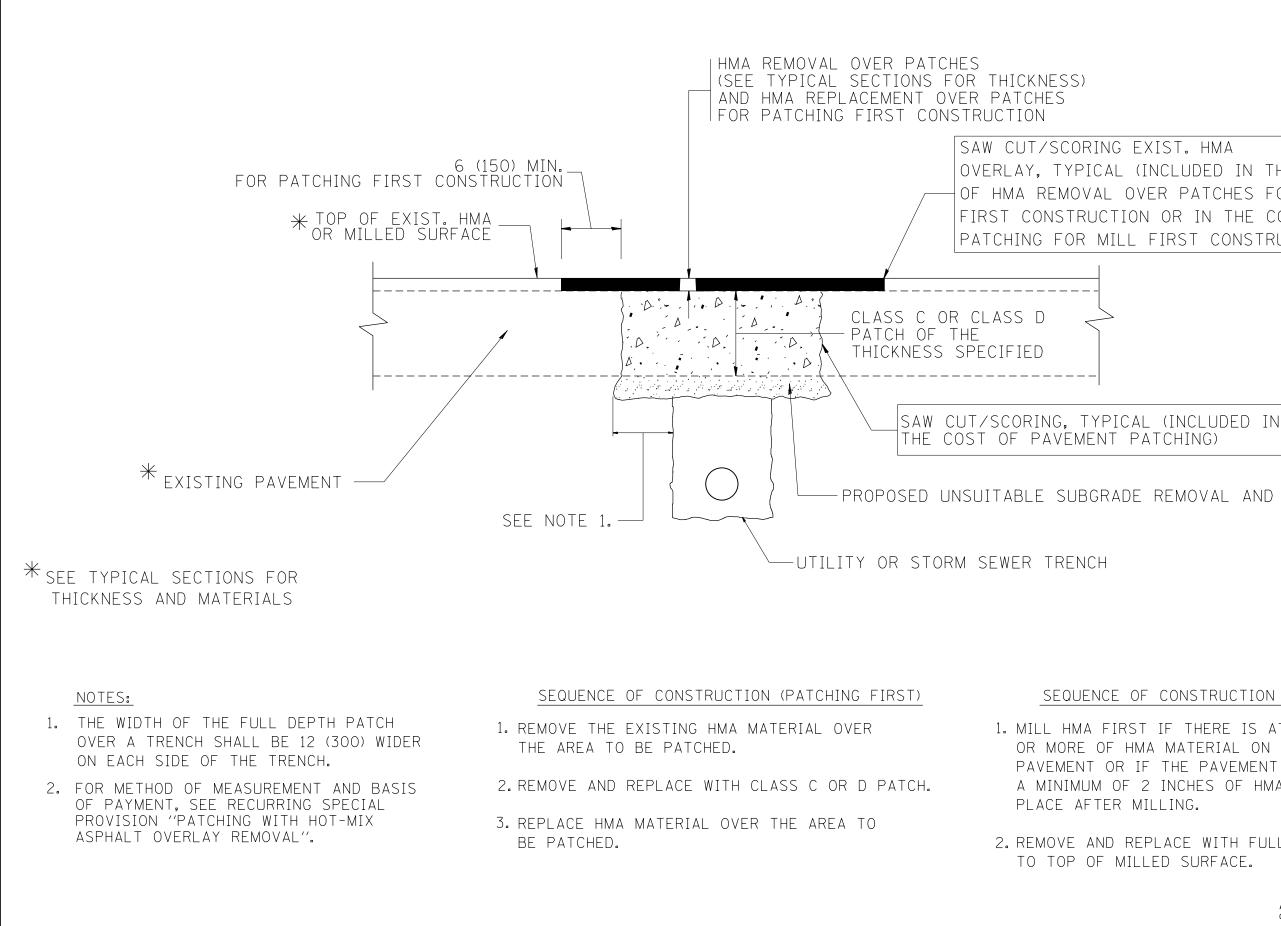
THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

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

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

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



| | | | | | | | | | E IN INCHES (MILLIMETERS) UNLESS |
|--|--|----------------------------|-----------------------------|------------------------------|-----------------------|------------------------------|---------|--------------------------|----------------------------------|
| FILE NAME = | USER NAME = qureshiya | DESIGNED - R. SHAH | REVISED - A. ABBAS 04-27-98 | | | PAVEMENT PATCHING FOR | | F.A.P. SECTI | ON COUNTY TOTAL SHEET |
| pw://planroom.dot.illinois.gov:PWIDOT/Dock | nents\IDOT_Offices\District_1\Projects\D101318 | NDRXWN=\Design\DistStd.dgn | REVISED - R. BORO 01-01-07 | STATE OF ILLINOIS | | | | 333 2018-066- | RS&SR LAKE 40 23 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - R. BORO 09-04-07 | DEPARTMENT OF TRANSPORTATION | HMA SURFACED PAVEMENT | | | BD400-04 (BD | -22) CONTRACT NO. 62G83 |
| | PLOT DATE = 3/22/2019 | DATE - 10-25-94 | REVISED - K. ENG 10-27-08 | SCALE | | SHEET NO. 1 OF 1 SHEETS STA. | TO STA. | FED. ROAD DIST. NO. 1 IL | |

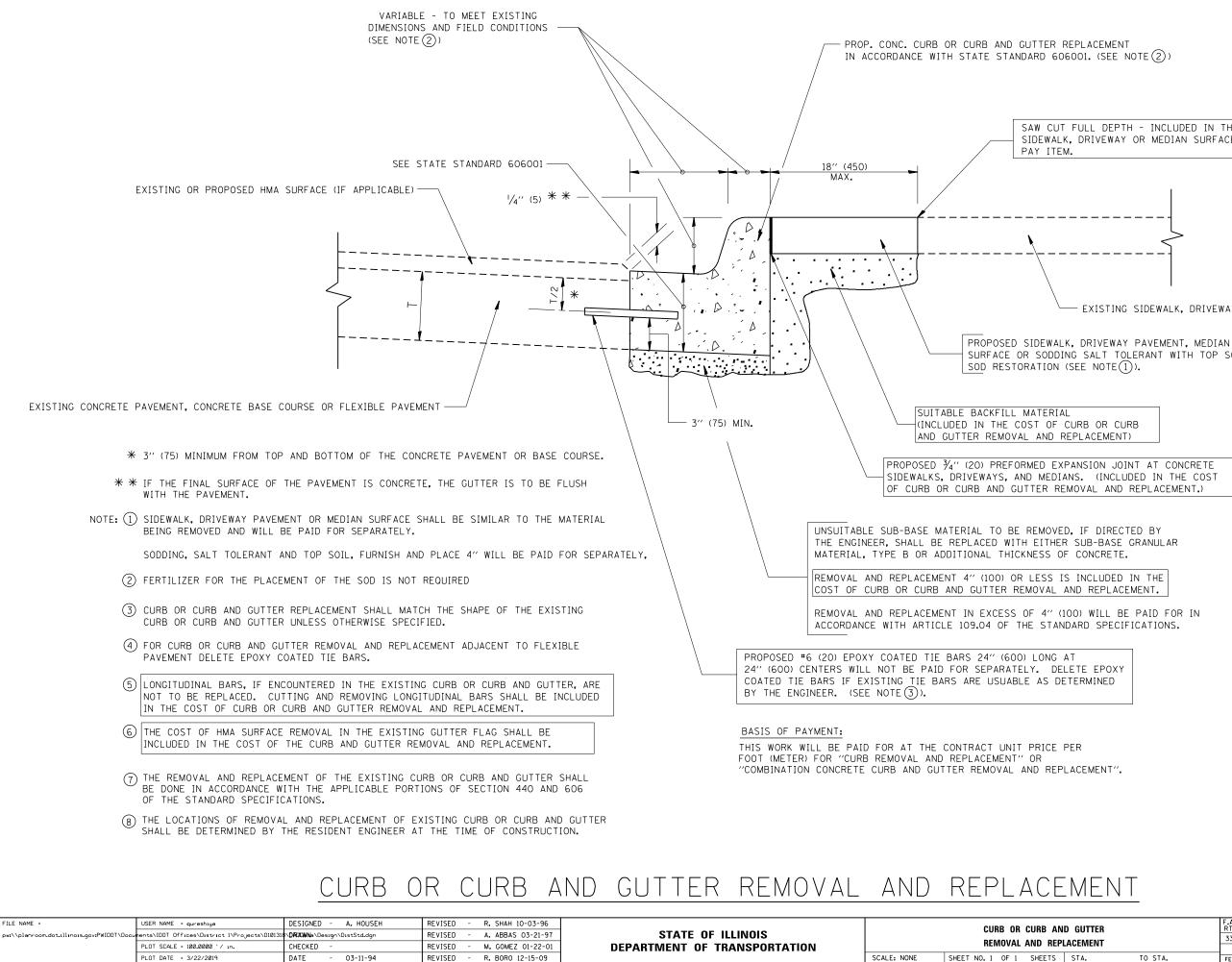
OVERLAY, TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.



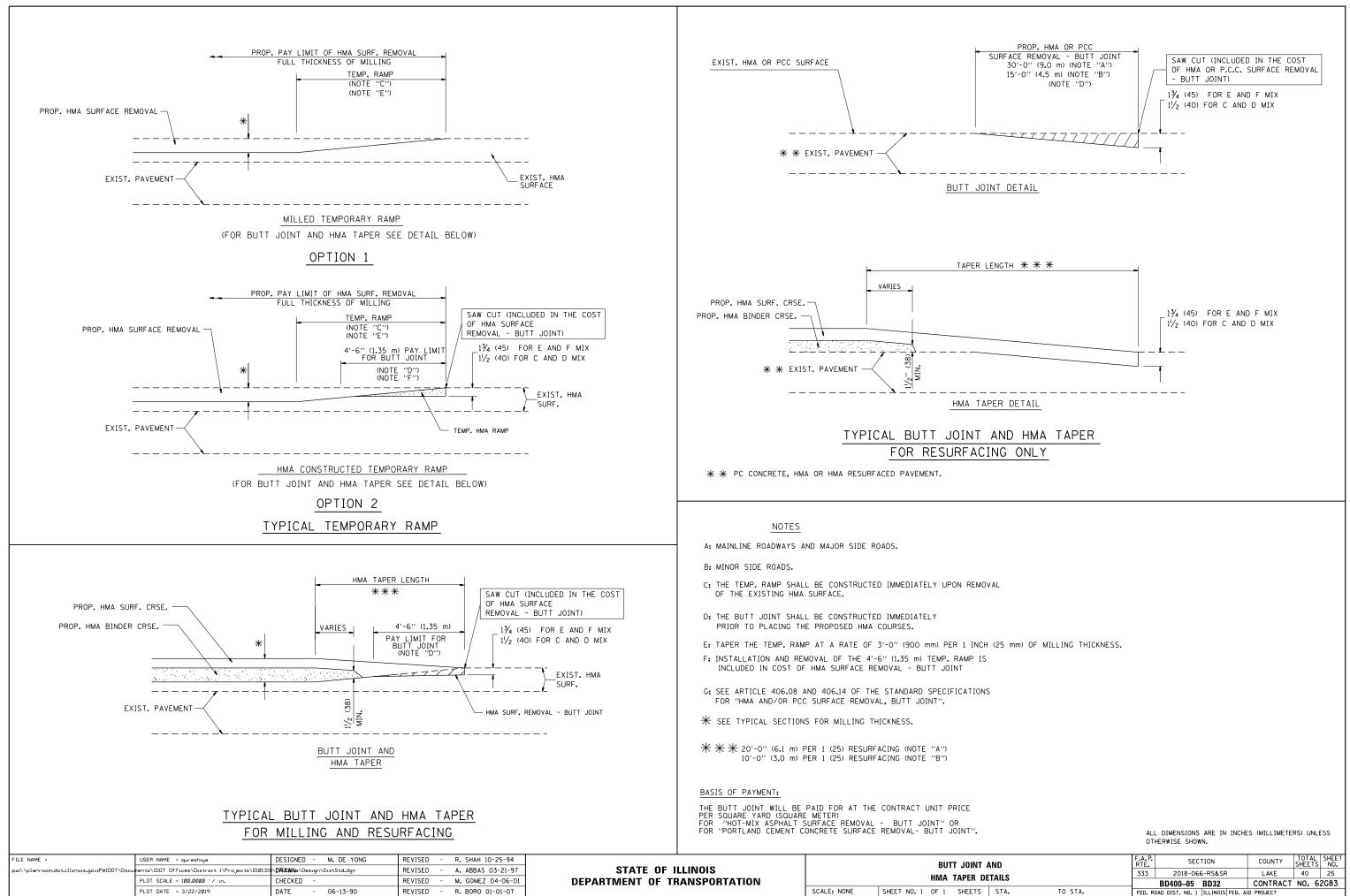
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

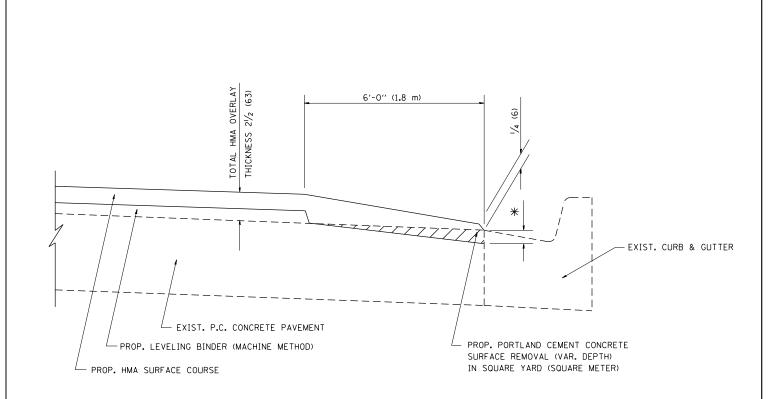
SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100)

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

| ٩NI | ND GUTTER | | F.A.P. RTE | RTE. SECTION | | TOTAL SHEETS | SHEET NO. |
|------------|-----------|---------|------------------|---------------------------------|-----------|-----------------|--------------|
| EPLACEMENT | | 333 | 2018-066-RS&SR | LAKE | 40 | 24 | |
| | | | BD600-06 (BD-24) | CONTRACT | NO. 6 | 2683 | |
| ; | STA. | TO STA. | FED. R | DAD DIST. NO. 1 ILLINOIS FED. A | D PROJECT | | |



| AND DETAILS | | SEC | TION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|--------|-----------------|---------------|-------------|-----------------|--------------|
| | | 2018-06 | S-RS&SR | LAKE | 40 | 25 |
| TAILS | _ | BD400-05 | BD32 | CONTRACT | NO. 6 | 2683 |
| STA. TO STA. | FED. R | OAD DIST. NO. 1 | ILLINOIS FED. | AID PROJECT | | |

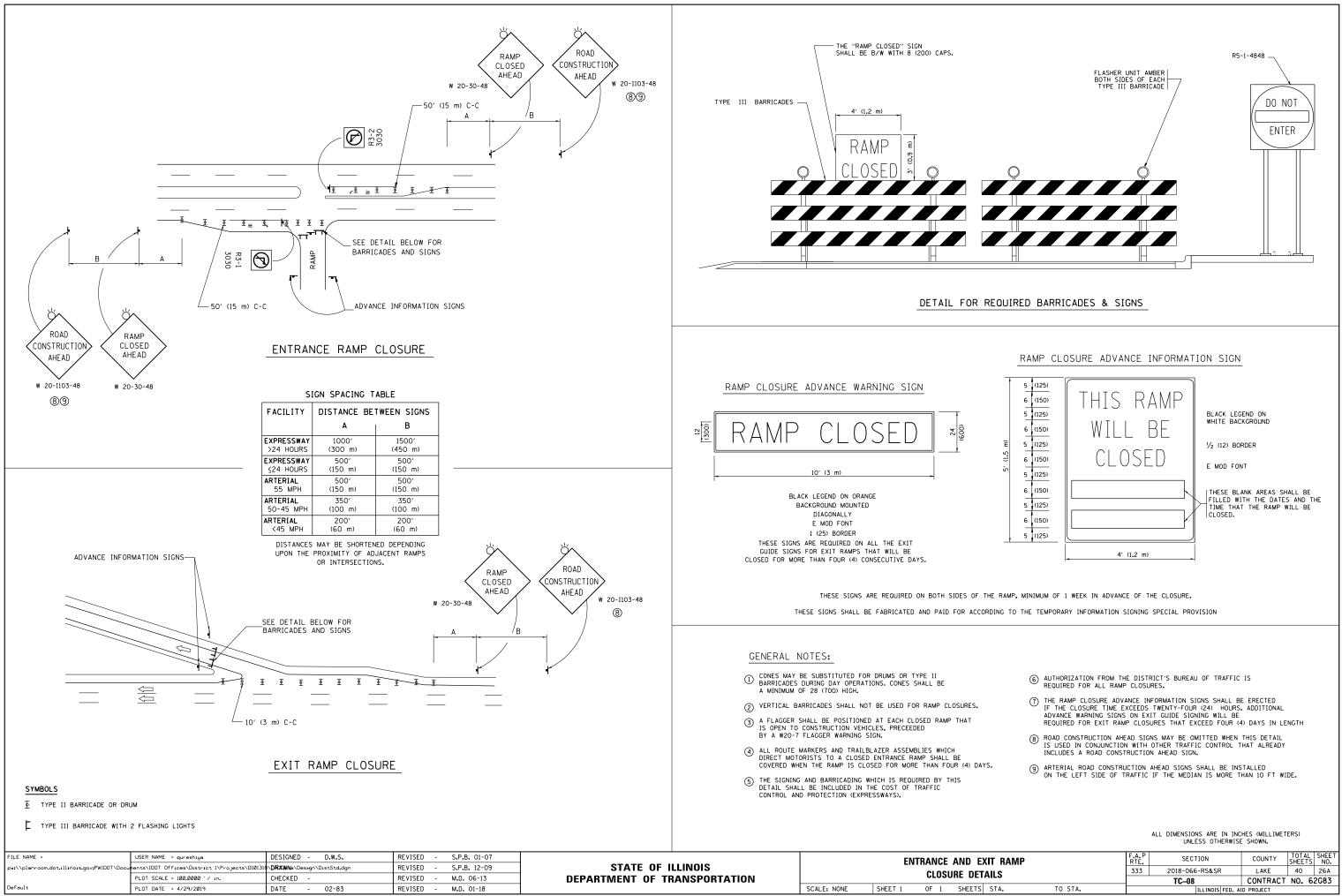


<u>hma taper at</u> EDGE OF P.C.C PAVEMENT

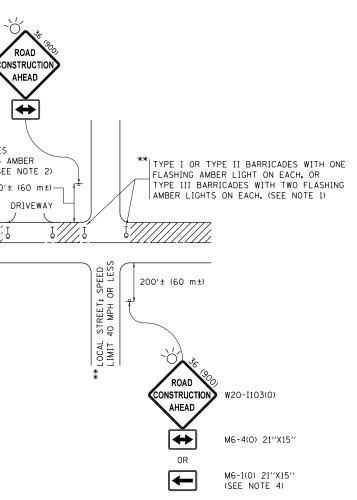
| HMA SURFACE | | LEVELING BINDER | |
|----------------|------------------------------------|--------------------|------------------------------------|
| MIX | THICKNESS | THICKNESS | ✤ MILLING AT GUTTER FLAG |
| C OR D | 1 ¹ / ₂ (38) | 1 (25) | 1 ¹ /4 (33) |
| E | 1 ³ ⁄ ₄ (44) | 3⁄4 (19) | 1 ¹ / ₂ (38)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

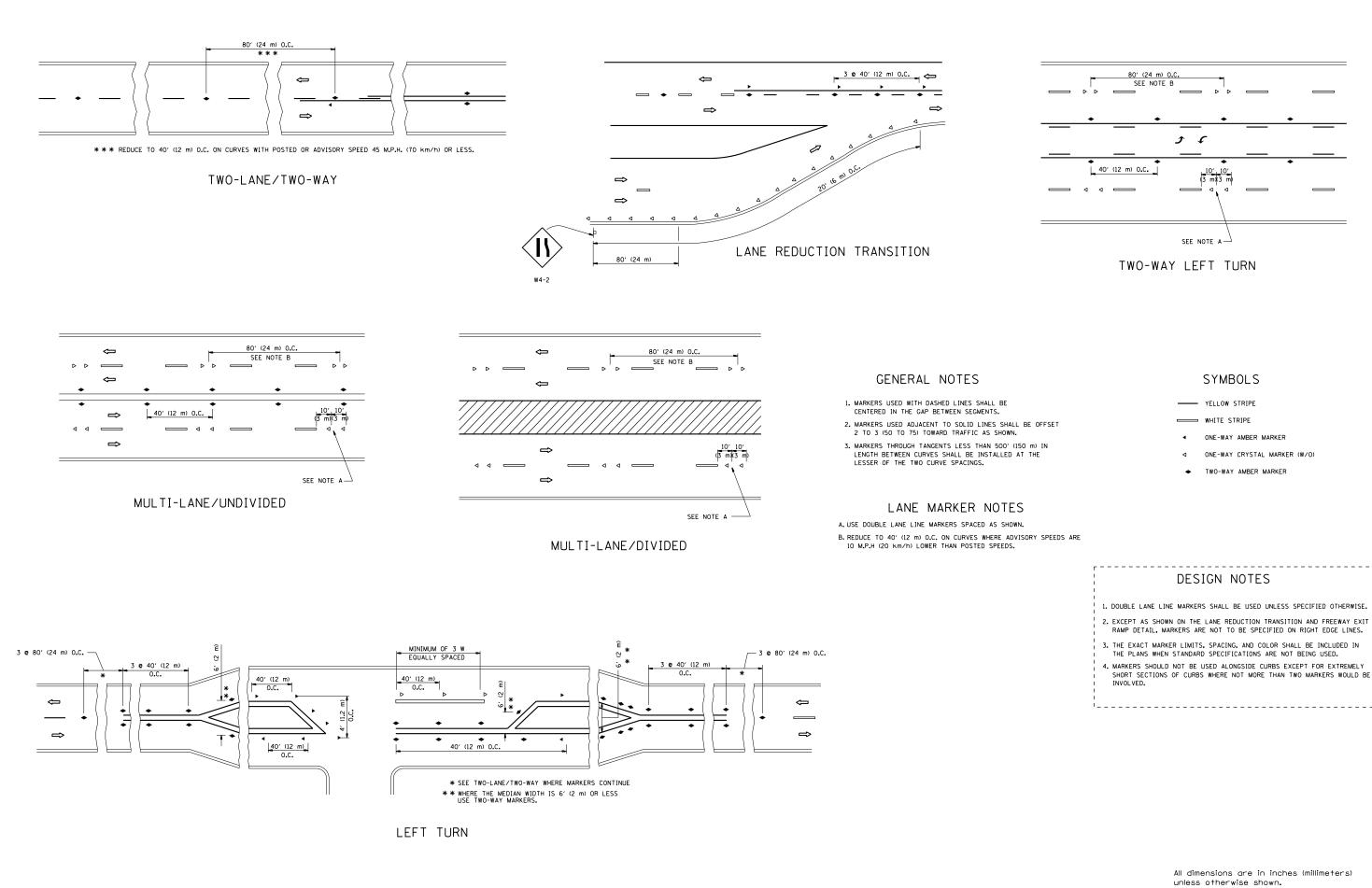
| FILE NAME = | USER NAME = qureshiya | DESIGNED - R. SHAH | REVISED - A. ABBAS 05-05-9 | ÷ | | HMA TAPER AT | | F.A.P SE | CTION | COUNTY TOTAL SHE |
|--|---|---|-----------------------------|------------------------------|-------------|-----------------------------|------|------------|-----------------|-------------------|
| pw://planroom.dot.illinois.gov:PWIDOT/Docu | ments\IDOT Offices\District 1\Projects\D10131 | SAND ADD STORE AND STREET AND STREET ADD STRE | REVISED - E. GOMEZ 12-21-00 | STATE OF ILLINOIS | | | - | 333 2018-0 | 66-RS&SR | LAKE 40 26 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - A. ABBAS | REVISED - R. BORO 01-01-07 | DEPARTMENT OF TRANSPORTATION | | EDGE OF P.C.C. PAVEMENT | | BD400-06 | (BD33) | CONTRACT NO. 62G8 |
| Default | PLOT DATE = 3/22/2019 | DATE - 09-10-94 | REVISED - JP CHANG 07-08-16 | | SCALE: NONE | SHEET 1 OF 1 SHEETS STA. TO | STA. | | ILLINOIS FED. 4 | ID PROJECT |

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



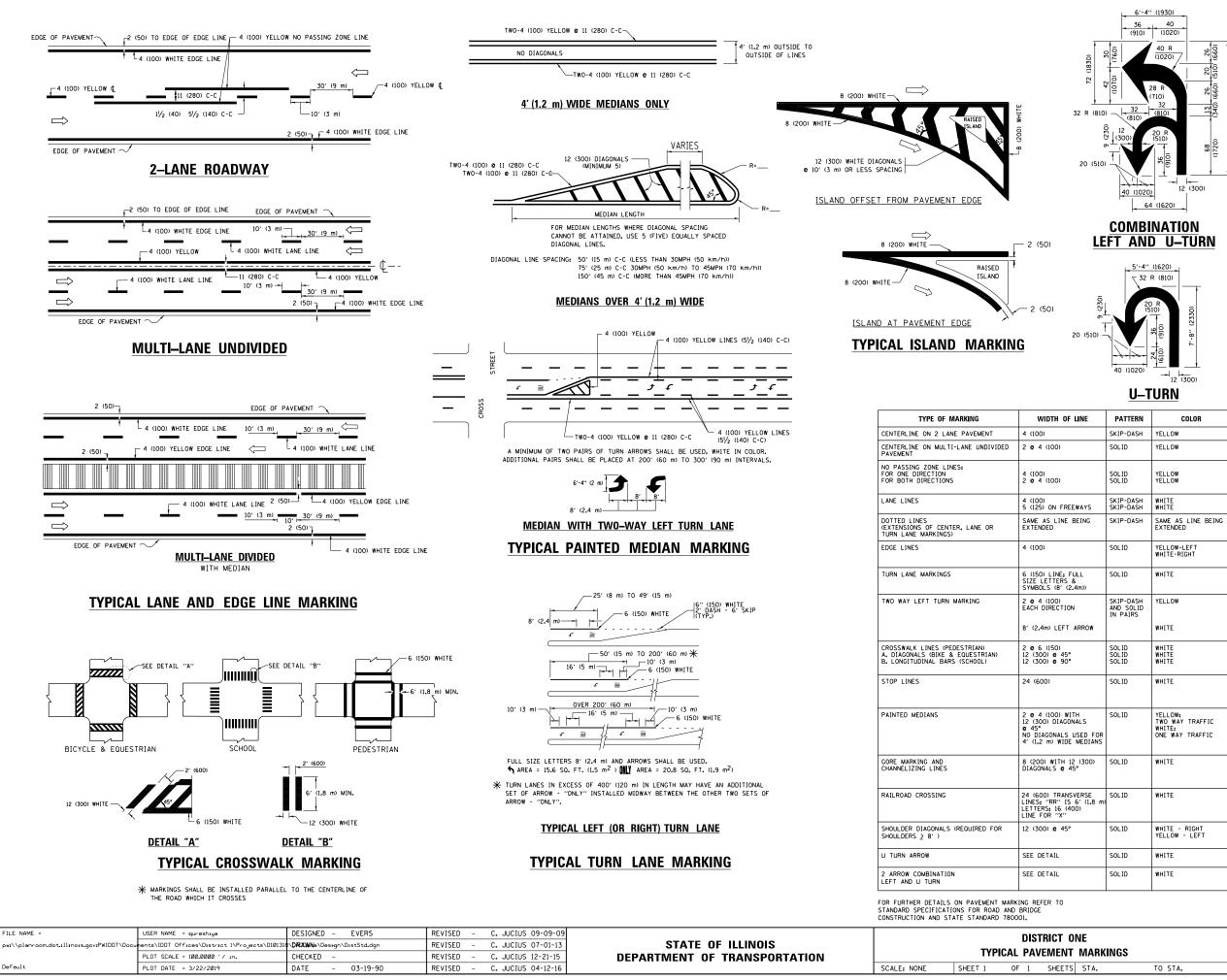
| | | TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR THE I DARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH, GEER NOTE 2) 20'2' LIGHT SON EACH, CEE NOTE 2) DRIVEWAN WORK AMEA'. |
|---|--|---|
| pw:\\planroom.dot.illinois.gov:PWIDDT\Documents\IDDT_Offices\District_I\Projects\D10131 8\DRXWN a\Design\DistStd.dgn | SHOWN ON THE C a) ONE "ROAD MOUNTED (b) THE CLOSE BLOCKING THE CROSS 2. SIDE ROAD WITH AS SHOWN ON TH a) ONE "ROAD FLASHER M OF THE MA b) THE CLOSE BLOCKING OF THE CL 3. CONES MAY BE S SPACING DURING IN HEIGHT. 4. WHEN THE SIDE SIGNING AND THI | A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS DRAWING AND AS DIRECTED BY THE ENGINEER: 0 CONSTRUCTION AMEAD' SION 36 x 36 (900/900) WITH A FLASHER NO INGE-1 OR MG-6/ SHALL BE COUTED OR REMOVED WEN NO LONGE CONSISTENT WITH THE TRAFFIC CONTROL SHOULD BE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARDS). THE DIRECTIONAL AND NOE-1 OR MG-6/ SHALL BE COUTED OR REMOVED WEN NO LONGE CONSISTENT WITH THE TRAFFIC CONTROL SHOULD RE OPORTION OF THE WAIN ROUTE SHALL BE PROTECTED BY WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF S SECTION OF THE CLOSED PORTION. 1. A SPEED LIMIT GREATE THAN 40 MPH (60 km/h) HE DRAWING AND AS DIRECTED BY THE ENGINEER: 1. ON OTHER CONSISTENT WITH THE TRAFFIC CONTROL SHOULD OR REMOVED WITH TYPE I, TYPE II, APPROXIMATELY SOO' (150 m) IN ADVANCE AIN ROUTE. D CONSTRUCTION AREAD'' SION 48 48 (12 m x 12 m) WITH A AN SPEED LIMIT GREATE THAN 40 MPH (60 km/h) HE DRAWING AND AS DIRECTED BY HITH TYPE II DARRICADES, 1/2 OF THE CROSS SECTION LOSED PORTION. SUBSTITUTED FOR BARRICADES OR DOWINS AT HALF THE ' DAY OPERATIONS. CONS SHALL BE PROTECTED BY ANY ROUTE. D CONSTRUCTION, SONS SHALL BE A MINIMUM OF 28 (110) ROAD LIES BETWEEN THE BEGINNING OF THE MAIN.INE WITH TYPE II BARRICADES OR DOWNS AT HALF THE ' BAY OPERATIONS. CONS SHALL BE A MINIMUM OF 28 (110) ROAD LIES BETWEEN THE BEGINNING OF THE MAIN.INE WITH TYPE II BARRICADES OR DOWNS AT HALF THE ' BAY OPERATIONS. CONS SHALL BE A MINIMUM OF 28 (110) ROAD LIES BETWEEN THE BEGINNING OF THE MAIN.INE WITH TYPE II BARRICADED ARROW MM6-4). All dimensions are in inches (millimeters) UNISS OTHER DARDED ARROW MM6-40. ALL dimensions are in inches (millimeters) UNISS OTHER DARDED ARD ARD MIN MUMERED ADD ARD MINED AND AND ARD ARD ARD MINED MINED AND HEREORTING AND PROTECTION FOR <u>TRAFFIC CONTROL AND PROTECTION FOR STANDARD SON MINED ADD MINED MINED AND HEREORTING AND PROTECTION FOR STANDARD AND MINED MINED ADD ARD MINED MINED ADD ARD MINED MINED ADD ARD MINED MINED ADD ARD MINED MINED ADD ADD AND MINED MINED ADD ARD MINED MINED ADD ADD MINED MINED ADD ADD</u> |

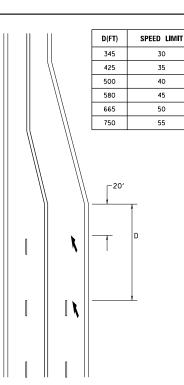




| FILE NAME = | USER NAME = qureshiya | DESIGNED - | REVISED - T. RAMN | MACHER 09-19-94 | | | TYPICAL APPLIC | ATIONS | F.A.P. | SECTION | COUNTY | TOTAL | SHEET NO. |
|--|--|-------------------------------------|-------------------|-----------------|------------------------------|--|-------------------------|--------------|-----------|-----------------------------|-------------|-------|--------------|
| pw://planroom.dot.illinois.gov:PWIDOT/Docu | nents\IDOT_Offices\District_1\Projects\D101318 | \ DRXWN a\Design\DistStd.dgn | REVISED - T. RAMM | MACHER 03-12-99 | STATE OF ILLINOIS | BAIOSE - | | | 333 | 2018-066-RS&SR | LAKE | 40 | 28 |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED -T. RAMM | MACHER 01-06-00 | DEPARTMENT OF TRANSPORTATION | RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) | | | TC-11 | CONTRACT | NO. 62 | 2683 | |
| | PLOT DATE = 3/22/2019 | DATE - | REVISED - C. JUCI | CIUS 09-09-09 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | FED. ROAD | D DIST. NO. 1 ILLINOIS FED. | AID PROJECT | | |

4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.





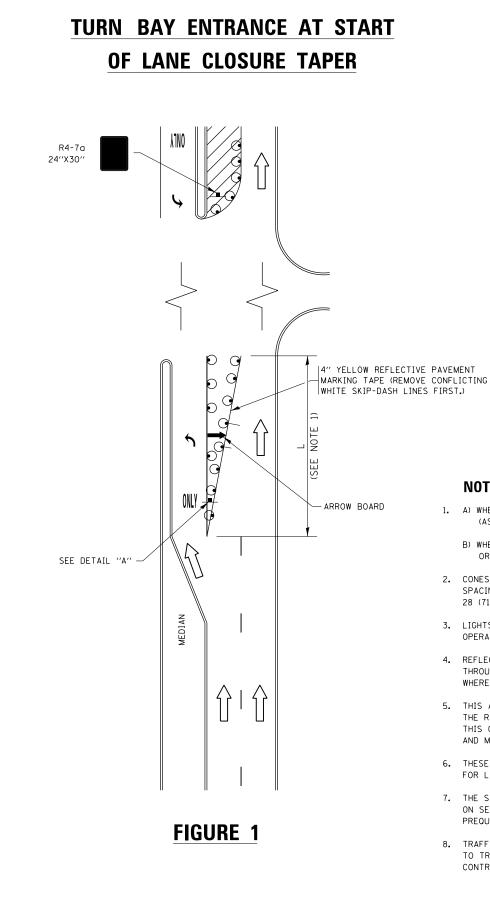
LANE REDUCTION TRANSITION

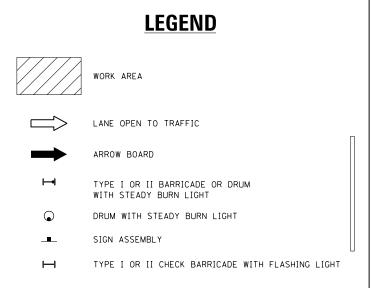
lane reduction arrows required at speeds of 45 MPH or greater or when specified in plans.

| F LINE | PATTERN | COLOR | SPACING /REMARKS |
|---------------------------------------|------------------------------------|---|--|
| | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| | SOLID | YELLOW | 11 (280) C-C |
| | SOLID SOLID | YELLOW YELLOW | 5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| EEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| BEING | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MEDIANS IN YELLOW |
| FULL & 2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| ON ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| • | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| | SOLID | WHITE | PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHEWNISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| ITH DNALS USED FOR E MEDIANS | SOLID | YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| 12 (300) 45° | SOLID | WHITE | DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (0VER 45MPH (70 km/h)) |
| SVERSE 5 6' (1.8 m) 400) | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²) |
| • | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h)) |
| | SOLID | WHITE | 16.3 SF |
| | SOLID | WHITE | 30.4 SF |
| | | | |

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

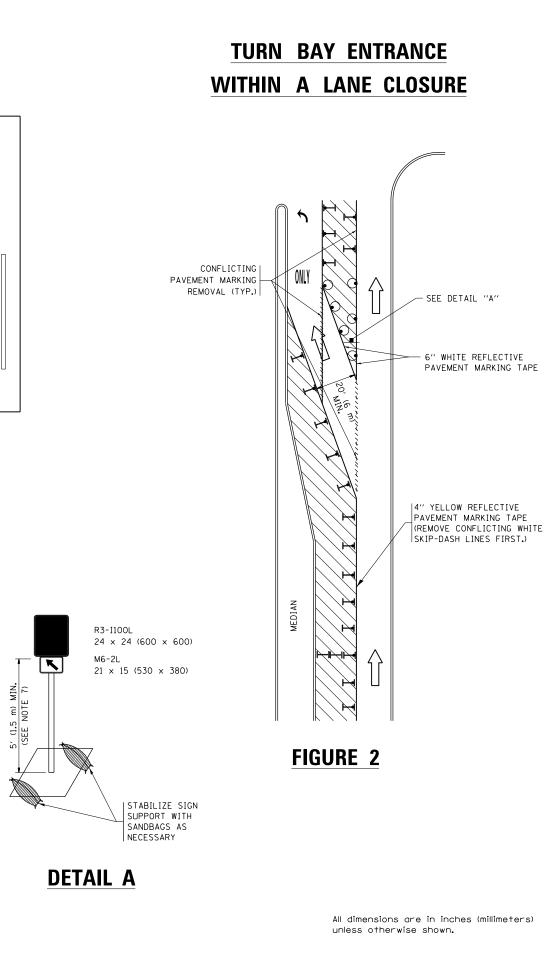
| ONE | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
|-----------------|---------------------------|----------------|----------|-----------------|--------------|--|--|
| IT MARKINGS | 333 | 2018-066-RS&SR | LAKE | 40 | 29 | | |
| | _ | TC-13 | CONTRACT | NO. 6 | 2683 | | |
| TS STA. TO STA. | ILLINOIS FED. AID PROJECT | | | | | | |



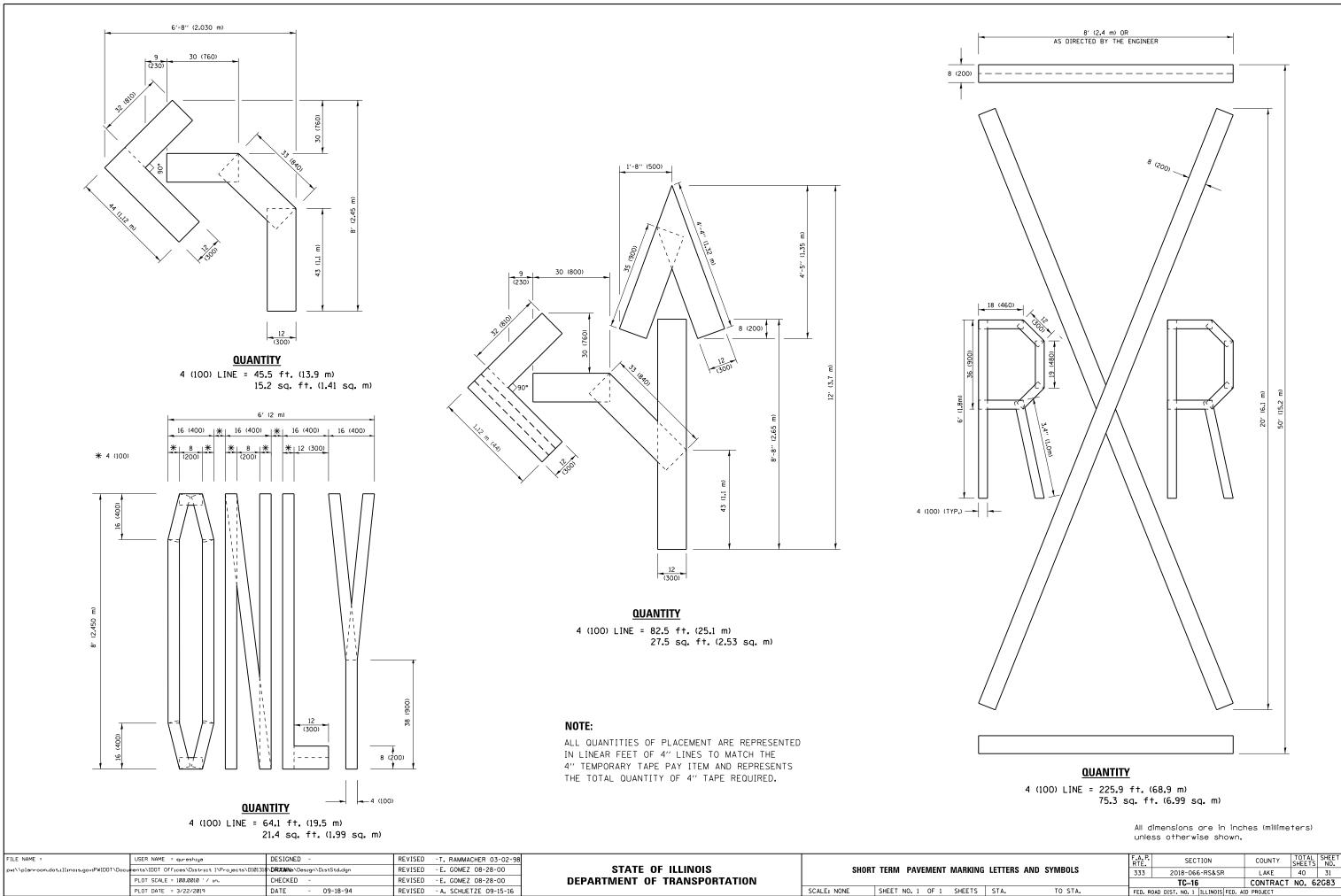


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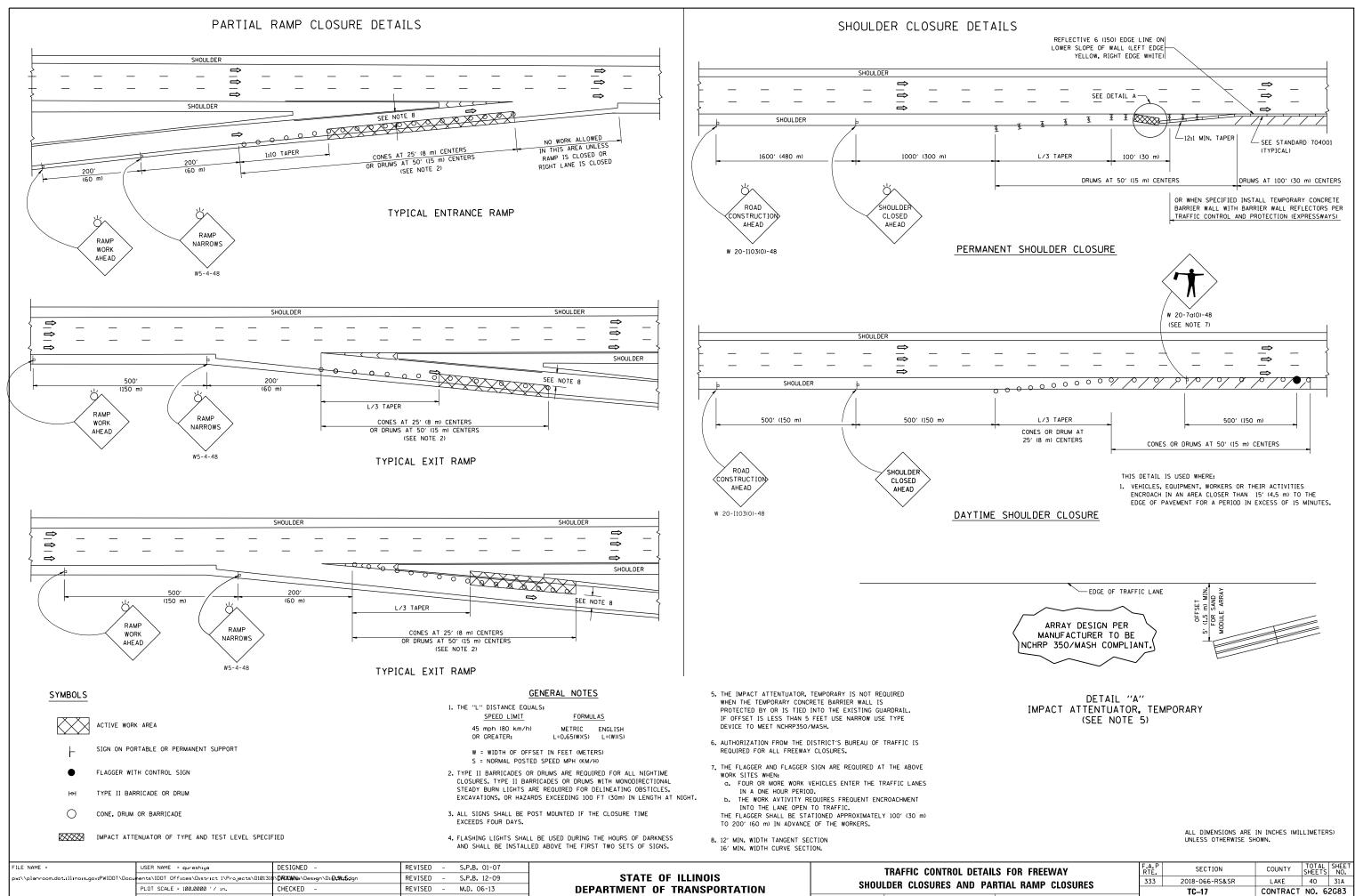
- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. 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" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 × 15 (530 × 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.



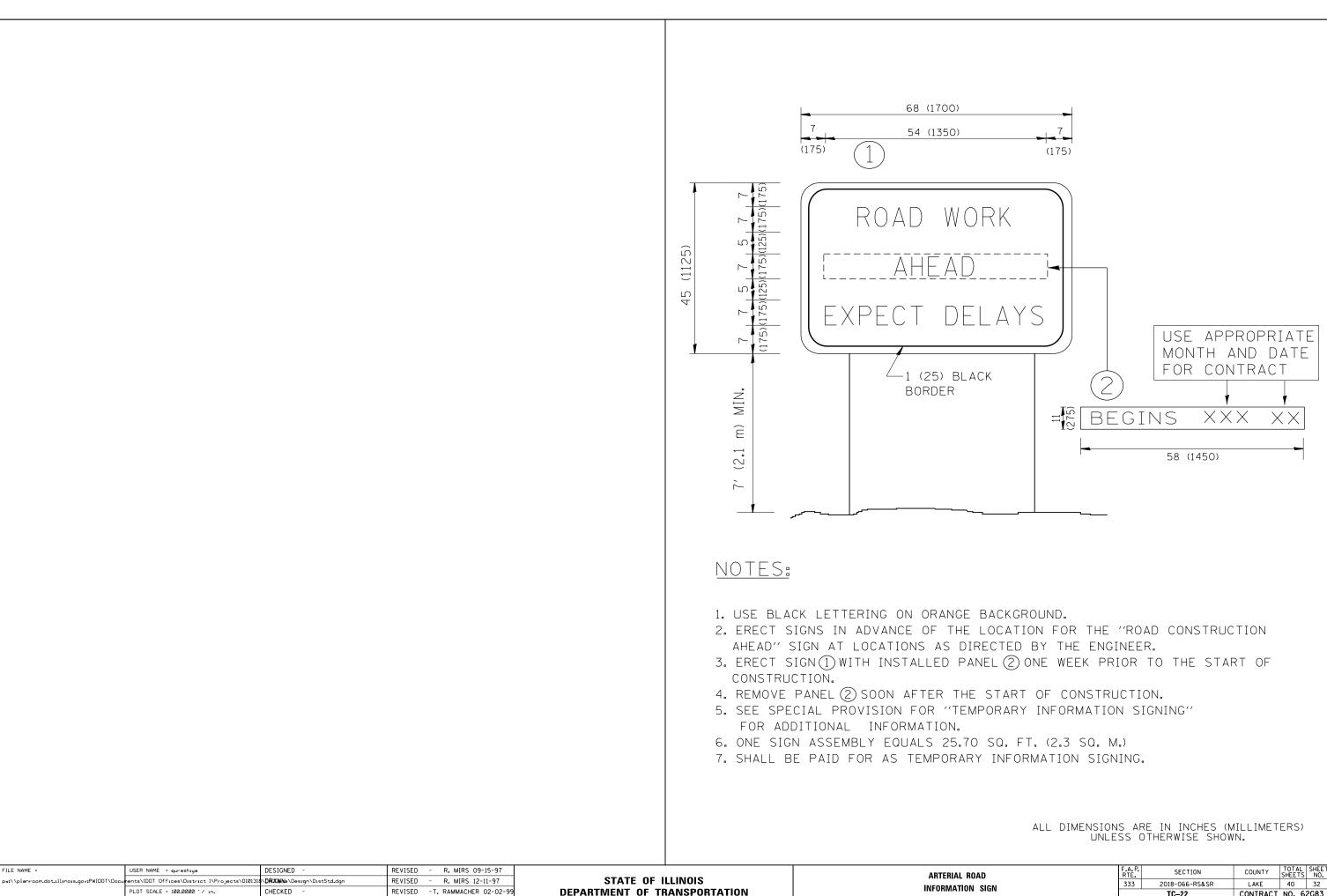
| FILE NAME = | - | USER NAME = qureshiya | REVISED | -T. RAMMACHER 09-08 | - | | | TB | AFFIC CONTROL AND PROTECTION AT 1 | URN BAYS | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEET SHEETS NO. |
|-----------------|-------------------------------|-------------------------------------|---|-----------------------------------|------------|------------------------|------------------------------|-------------|-----------------------------------|----------|---------------|----------------|------------|---------------------------|
| pw://planroom.c | .dot.illinois.gov:PWIDOT\Docu | ents\IDOT Offices\District l\Projec | s\D101318\ R&0/01&55 0De | sign\Di AtStHOld SEH 11-07 | 95 REVISED | - A. SCHUETZE 07-01-13 | STATE OF ILLINOIS | | (TO REMAIN OPEN TO TRAFFIC | | 333 | 2018-066-RS&SR | LAKE | 40 30 |
| | | PLOT SCALE = 100.0000 '/ in. | REVISED | - A. HOUSEH 10-12- | 6 REVISED | - A. SCHUETZE 09-15-16 | DEPARTMENT OF TRANSPORTATION | | (TO REMAIN OPEN TO TRAFFIC | 1 | | TC14 | CONTRAC | T NO. 62C83 |
| Default | | PLOT DATE = 3/22/2019 | REVISED | -T. RAMMACHER 01-06 | 00 REVISED | - | | SCALE: NONE | SHEET 1 OF 1 SHEETS STA. | TO STA. | | | ID PROJECT | |



| G LETTERS AND SYMBOLS | | | F.A.P. RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | | | |
|-----------------------|-------------|---------------------|---------------|---|--------|-----------------|--------------|--|--|--|--|
| G | LETTERS AND | LETTERS AND SYMBOLS | | 2018-066-RS&SR | LAKE | 40 | 31 | | | | |
| | | | | TC-16 CONTRACT NO. 62G83 | | | | | | | |
| | STA. | TO STA. | FED. RO | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | | | |



| FILE NAME = | USER NAME = qureshiya | DESIGNED - | REVISED - S.P.B. 01-07 | | | TRAFFIC | CONTROL | L DETAILS FOR FR | EEWAY | RTE. | SECTION | COUNTY | SHEETS |
|--|--|----------------------------|------------------------|------------------------------|-------------|----------|---------|------------------|-------------|------|----------------|-------------|--------|
| pw://planroom.dot.illinois.gov:PWIDOT/Docu | nents\IDOT_Offices\District_I\Projects\D101318 | NDRAWN=\Design\DiD;%ka5dgn | REVISED - S.P.B. 12-09 | STATE OF ILLINOIS | CU011 | | | ND PARTIAL RAM | | 333 | 2018-066-RS&SR | LAKE | 40 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - M.D. 06-13 | DEPARTMENT OF TRANSPORTATION | 3000 | LUEN GLU | SUNES A | | IF CLUSUNES | | TC-17 | CONTRACT | NO. 62 |
| Default | PLOT DATE = 4/29/2019 | DATE - 11-96 | REVISED - M.D. 01-18 | | SCALE: NONE | SHEET 1 | OF 1 | SHEETS STA. | TO STA. | | ILLINOIS FED. | AID PROJECT | |
| | | | | | | | | | | | - | | |



REVISED - C. JUCIUS 01-31-07

PLOT DATE = 3/22/2019

DATE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

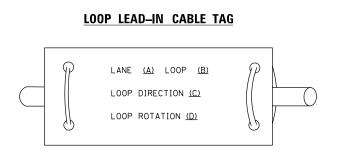
| 30/ | AD | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | | |
|-----|--------|---------|---|--------------------------|--------|-----------------|--------------|--|--|--|
| | | | 333 | 2018-066-RS&SR | LAKE | 40 | 32 | | | |
| N | N SIGN | | | TC-22 CONTRACT NO. 62G83 | | | | | | |
| | STA. | TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | | | |

TRAFFIC SIGNAL LEGEND

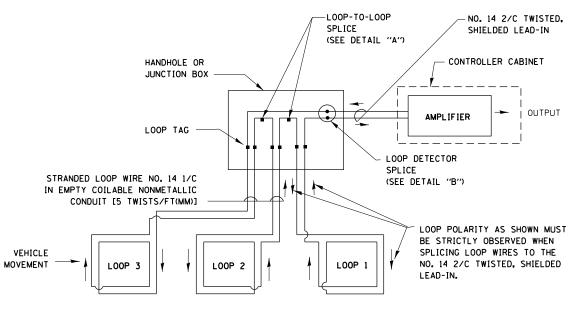
| | | | | (NOT TO SCALE) | | | | |
|--|-------------------------------|---|--|---------------------------------------|---------------------|--|---|---|
| ITEM | EXISTING | PROPOSED | ITEM | EXISTING | PROPOSED | ITEM | EXISTING | PROPOSED |
| CONTROLLER CABINET | \bowtie | | HANDHOLE -SQUARE | | | SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD | RR | R R |
| COMMUNICATION CABINET | ECC | СС | | | | | RICIE | R R Y Y G G Y Y G G Y Y Y Y G G Y Y Y Y G G Y Y |
| MASTER CONTROLLER | EMC | MC | HEAVY DUTY HANDHOLE -SQUARE -ROUND | H (B) | • | | | |
| MASTER MASTER CONTROLLER | ЕММС | ммс | DOUBLE HANDHOLE | | | | | |
| UNINTERRUPTABLE POWER SUPPLY | 4 | F | JUNCTION BOX | | 0 | SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE | | $ \begin{array}{c c} \hline R \\ \hline Y \\ \hline G \\ \hline \Theta \\ \hline $ |
| SERVICE INSTALLATION -(P) POLE MOUNTED | ^P | - ■ - | RAILROAD CANTILEVER MAST ARM | X OX X X | X CI X X | | | G G G AY AY AY AY AY AY AY AY AY AY |
| SERVICE INSTALLATION | | | RAILROAD FLASHING SIGNAL | XoX | X•X | | P RB | P RB |
| -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED | $\boxtimes^{G}\boxtimes^{GM}$ | | RAILROAD CROSSING GATE | <u>Xox</u> > | X+1 | PEDESTRIAN SIGNAL HEAD | | * |
| TELEPHONE CONNECTION | ET | Т | RAILROAD CROSSBUCK | 本 | ¥ | AT RAILROAD INTERSECTIONS | Ŕ | × |
| STEEL MAST ARM ASSEMBLY AND POLE | 0 | • | RAILROAD CONTROLLER CABINET | | A | PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER | C C | ₽ C ★ D |
| ALUMINUM MAST ARM ASSEMBLY AND POLE | \bigcirc | | UNDERGROUND CONDUIT (UC), GALVANIZED STEEL | | | | | |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE | 0-X | •* | TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE | | | ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" | | |
| | 0 | • • BM | SYSTEM ITEM | S | SP | NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. | 5 | 5 |
| -(BM) BARREL MOUNTED - TEMPORARY | 0 | 2 | INTERSECTION ITEM | I | IP | ALL DETECTOR LOOP CABLE TO BE SHIELDED | | |
| WOOD POLE | \otimes | Θ | REMOVE ITEM | | R | GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) | | |
| GUY WIRE | > | >- - | RELOCATE ITEM | | RL | ELECTRIC CABLE IN CONDUIT, TRACER | 1 | (1) |
| SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE | -D +D | - > + > | ABANDON ITEM | | А | NO. 14 1/C | | |
| SIGNAL HEAD OPTICALLY PROGRAMMED | | | CONTROLLER CABINET AND FOUNDATION TO BE REMOVED | | RCF | COAXIAL CABLE | — <u> </u> | — <u>C</u> — |
| FLASHER INSTALLATION | ord F ord FS | ← F ← FS | MAST ARM POLE AND FOUNDATION TO BE REMOVED | | RMF | VENDOR CABLE | | |
| -(FS) SOLAR POWERED | | ↔► ↔► ►► ^F ₽ ► ^{FS} | SIGNAL POST AND | | RPF | COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED | 6*18 | 6#18 |
| PEDESTRIAN SIGNAL HEAD | -0 | -1 | FOUNDATION TO BE REMOVED DETECTOR LOOP, TYPE I | | | FIBER OPTIC CABLE -NO. 62.5/125, MM12F | 12F | 12F |
| PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON | _ ⊚ ⊚ APS | Ø Ø APS | PREFORMED DETECTOR LOOP | | P P | -N0. 62.5/125, MM12F SM12F -N0. 62.5/125, MM12F SM24F | 24F | 24F |
| RADAR DETECTION SENSOR | | R | SAMPLING (SYSTEM) DETECTOR | | s s | | | |
| VIDEO DETECTION CAMERA | | Ţ, | INTERSECTION AND SAMPLING | | | | | |
| RADAR/VIDEO DETECTION ZONE | | | (SYSTEM) DETECTOR | | | GROUND ROD -(C) CONTROLLER | _CM_PS ≑_≑_≑_≑ | ≟ ^C ≟ ^M ≟ ^P ≟ ^S |
| | ETZ] | ₽TZ I | QUEUE AND SAMPLING (SYSTEM) DETECTOR | | as os | -(H) MAST ARM -(P) POST | 6 6 9 9 | • • • • |
| PAN, TILT, ZOOM (PTZ) CAMERA | 0 | - | WIRELESS DETECTOR SENSOR | (() | 0 | -(S) SERVICE | | |
| EMERGENCY VEHICLE LIGHT DETECTOR | \sim | | WIRELESS ACCESS POINT | | | | | |
| CONFINATION BEACON | 00 | • | | | | | | |
| WIRELESS INTERCONNECT | <u>∽+1 </u> | •++ <u> </u> | | | | | | |
| WIRELESS INTERCONNECT RADIO REPEATER | ERR | RR | | | | | | |
| | | | | | | | | |
| FILE NAME = USER NAME = qureshiya DistStd.dgn | | IP REVISED - | STA DEPARTMEN | TE OF ILLINOIS T OF TRANSPORTATION | | DISTRICT ONE ANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 1 OF 7 SHEETS STA. TO STA. | F.A.P. SECTIO RTE. 333 2018-066-R TS-05 | SHEETS NO. |

LOOP DETECTOR NOTES

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

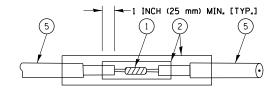


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

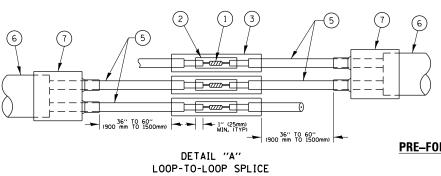


DETECTOR LOOP WIRING SCHEMATIC

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



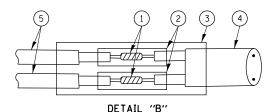
DETAIL "A" LOOP-TO-LOOP SPLICE



LOOP DETECTOR SPLICE

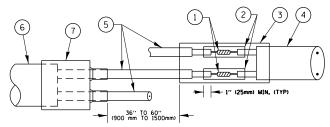
- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SUF OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE ST
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

| FILE NAME = | USER NAME = qureshiya | DESIGNED - | REVISED - | | DISTRICT ONE | | | | F.A.P. | SECTION | COUNTY | TOTAL SHEET |
|--|--|----------------------------|-----------|------------------------------|--|-----------------|------------|----------------|--------|---------|-----------|-------------|
| pw://planroom.dot.illinois.gov:PWIDOT/Docu | ments\IDOT Offices\District 1\Projects\D101318 | NDRXWNo/Design/DistStd.dgn | REVISED - | STATE OF ILLINOIS | | | 333 | 2018-066-RS&SR | LAKE | 40 34 | | |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | | JETAILS | | TS05 | CONTRACT | F NO. 62C83 |
| Default | PLOT DATE = 3/22/2019 | DATE - | REVISED - | | SCALE: NONE | SHEET 2 OF 7 SH | HEETS STA. | TO STA. | | | D PROJECT | |



LOOP-TO-CONTROLLER SPLICE

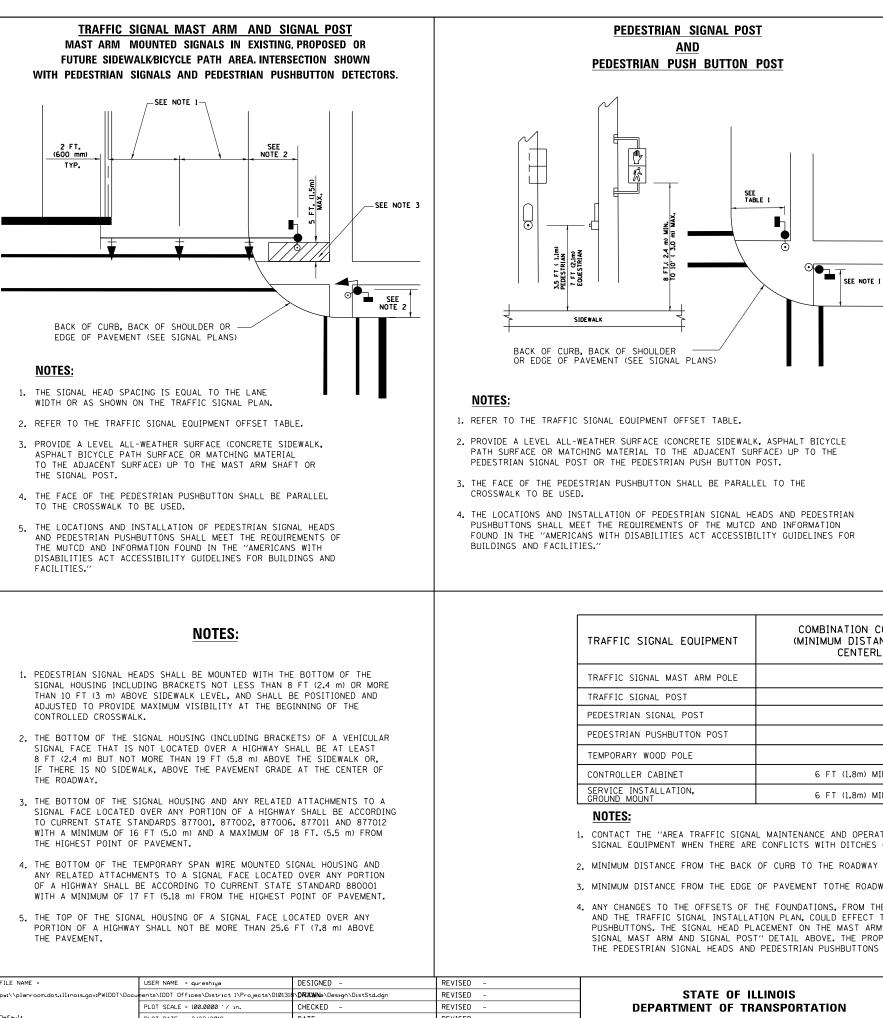
TYPE I LOOP

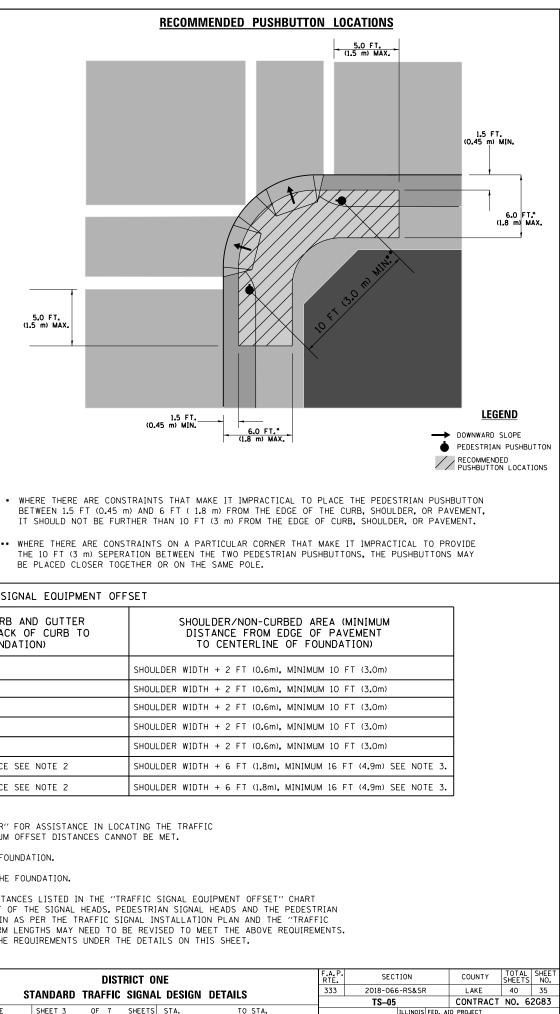


PRE-FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE

| JRFACES | 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. |
|------------|--|
| STAGGERED. | 6 PRE-FORMED LOOP |
| R GRADE. | \bigcirc |
| R GRADE. | T POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL |





TO STA.

TULINOIS FED ATD PROJECT

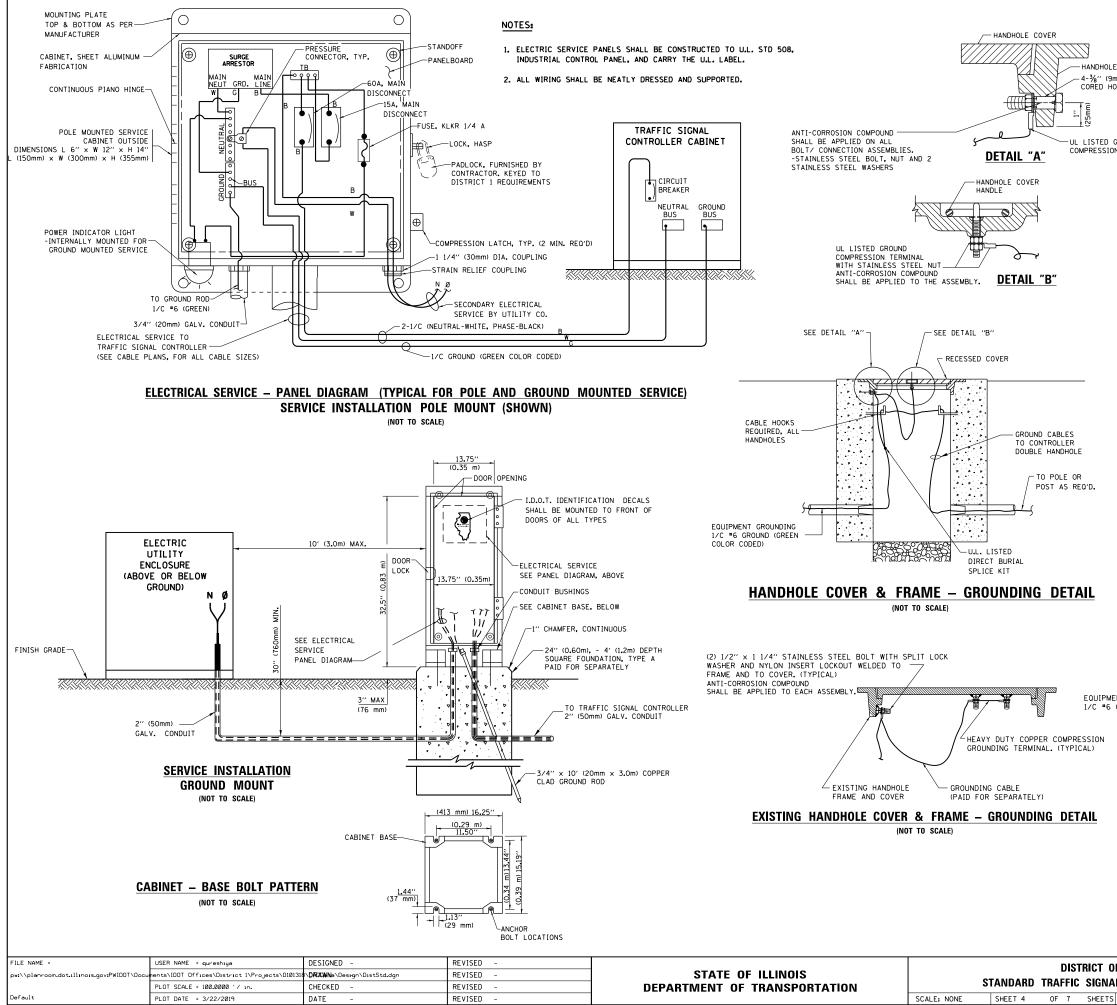
TRAFFIC SIGNAL EQUIPMENT OFFSET

| RAFFIC SIGNAL EQUIPMENT | COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION) | |
|-------------------------------------|---|--------|
| RAFFIC SIGNAL MAST ARM POLE | 6 FT (1.8m) | SHOULD |
| RAFFIC SIGNAL POST | 4 FT (1.2m) | SHOULD |
| EDESTRIAN SIGNAL POST | 4 FT (1.2m) | SHOULD |
| EDESTRIAN PUSHBUTTON POST | 4 FT (1.2m) | SHOULD |
| EMPORARY WOOD POLE | 6 FT (1.8m) | SHOULD |
| ONTROLLER CABINET | 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2 | SHOULD |
| ERVICE INSTALLATION, ROUND MOUNT | 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2 | SHOULD |
| | | |

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

4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

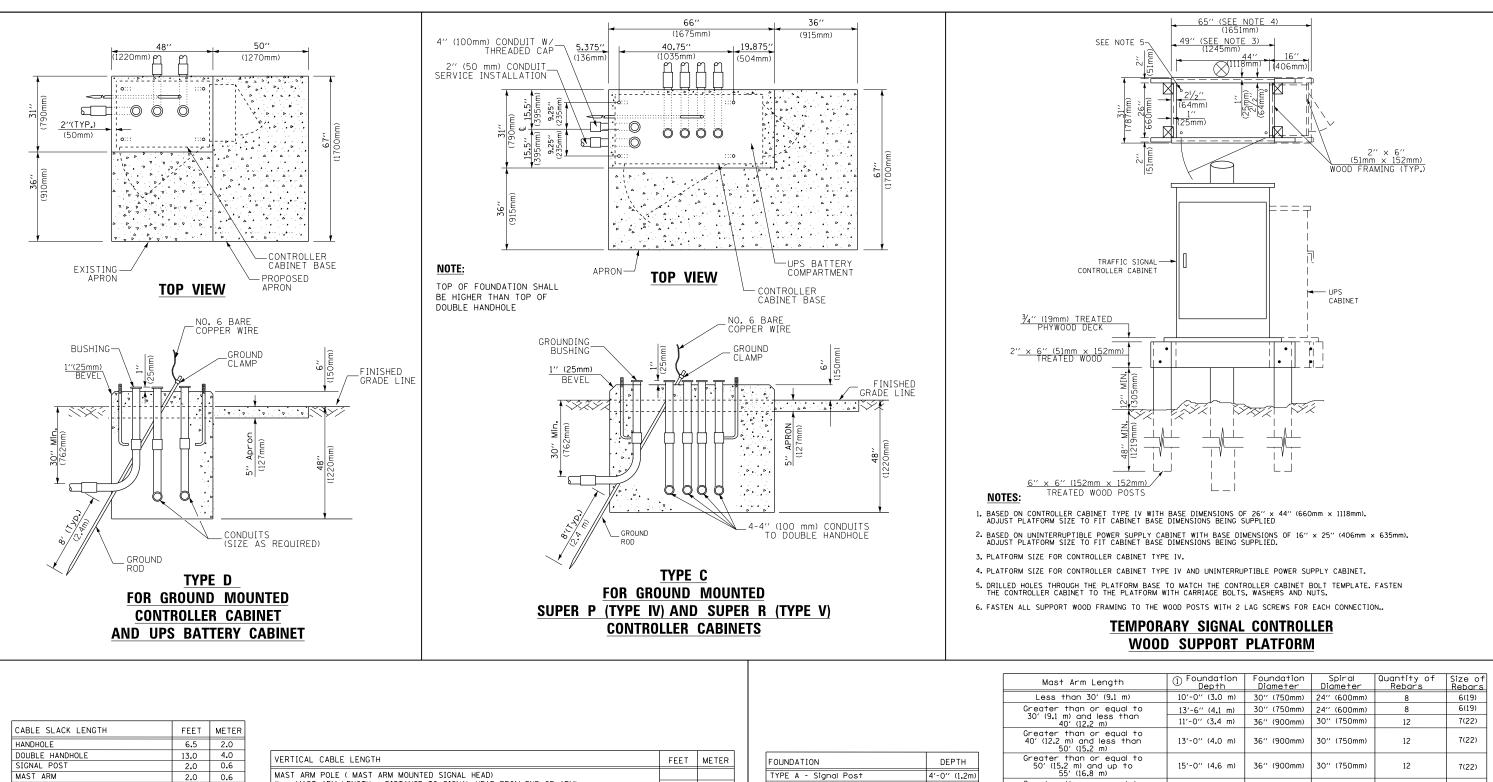
| FIL | LE NAME = | USER NAME = qureshiya | DESIGNED - | REVISED - | | | | יפוח | TRICT O |
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| pw | w:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT_Offices\District_i\Projects\D101318 | | 8\ DRAWN a\Design\DistStd.dgn | REVISED - | STATE OF ILLINOIS | | | | |
| | | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | STANDARD | IKAFFIC | SIGNA |
| Det | fault | PLOT DATE = 3/22/2019 | DATE - | REVISED - | | SCALE: NONE | SHEET 3 | 0F 7 | SHEETS |
| | | | | | | | | | |



NOTES: GROUNDING SYSTEM

| DLE FRAME (9mm) DIA., HOLES D GROUND ION TERMINAL | l. 2. | THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC,), GROUND ROD SHALL BE 3/4" DIA. × 10'-0" (20mm × 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED. |
|---|---|---|
| | 3. | ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET. |
| | 4. | THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME. |
| | Y TYPE <u>N(</u> • ALL • GR(6.5 13' | OMPRESSION TERMINAL YGHA OR APPROVED EQUAL) YGHA OR APPROVED EQUAL) YGHA OR APPROVED EQUAL) YGHA OR APPROVED EQUAL) YGHA OR APPROVED EQUAL) YTYPE GRC OR APPROVED EQUAL) TES: CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED. DUND CABLE SHALL BE BRONZE OR COPPER, UL APPROVED. DUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES (4.0m) OF SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. (1,4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER. |
| (BURN OR AF MENT GROUNDIN 6 GROUND (GRE | | ARM POLE / POST-GROUNDING DETAIL |
| _ | | (NOT TO SCALE) |

| ONE | | | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | | | | | |
|--------------------|---------|-----|---------------------------|--------|-----------------|--------------|--|--|--|--|--|--|
| IAL DESIGN DETAILS | | 333 | 2018-066-RS&SR | LAKE | 40 | 36 | | | | | | |
| IAL DESIGN DETAILS | | | TS-05 CONTRACT NO. 620 | | | | | | | | | |
| TS STA. | TO STA. | | ILLINOIS FED. AID PROJECT | | | | | | | | | |



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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

NOTES:

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

| FILE NAME = | USER NAME = qureshiya | DESIGNED - | REVISED - | | | DISTRICT ONE | | F.A.P. | SECTION | COUNTY TOTAL SHE |
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| pw://planroom.dot.illinois.gov: | v:PWIDOT\Documents\IDOT_Offices\District_I\Projects\ | D101318\ DRAWN a\Design\DistStd.dgn | REVISED - | STATE OF ILLINOIS | | STANDARD TRAFFIC SIGNAL DESIGN | DETAILO | 333 | 2018-066-RS&SR | LAKE 40 37 |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | STANDARD TRAFFIC SIGNAL DESIGN | DETAILS | | TS05 | CONTRACT NO. 6208 |
| Default | PLOT DATE = 3/22/2019 | DATE – | REVISED - | | SCALE: NONE | SHEET 5 OF 7 SHEETS STA. | TO STA. | | ILLINOIS FED. | AID PROJECT |

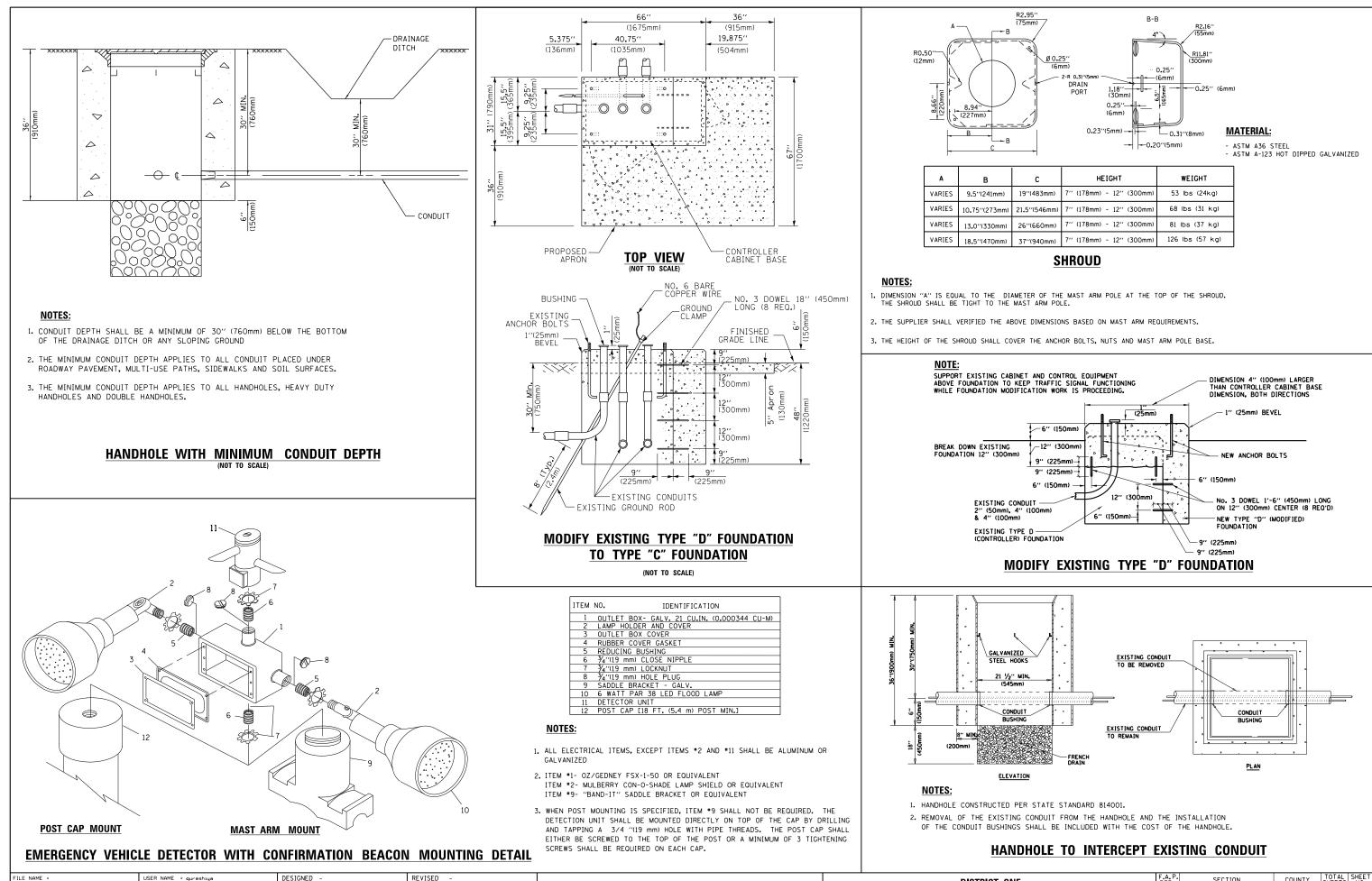
| Mast Arm Length | ① Foundation Depth | Foundation Diameter | Spiral Diameter | Quantity of Rebars | Size of Rebars |
|--|-----------------------|------------------------|--------------------|-----------------------|-------------------|
| Less than 30′ (9.1 m) | 10'-0'' (3.0 m) | 30'' (750mm) | 24''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

Insect foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Ou) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.

2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.

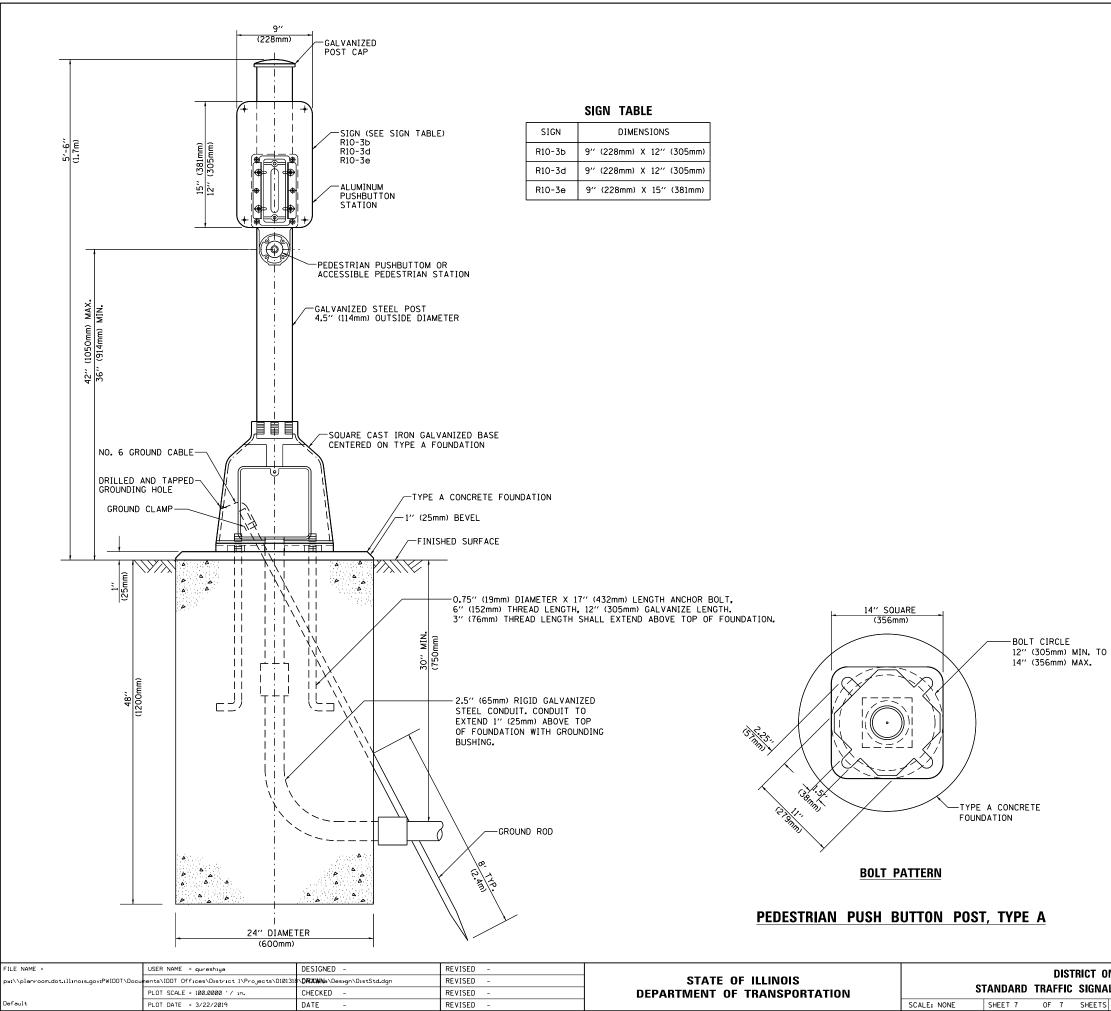
Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations

4. For mast arm assemblies with dual arms refer to state standard 878001..

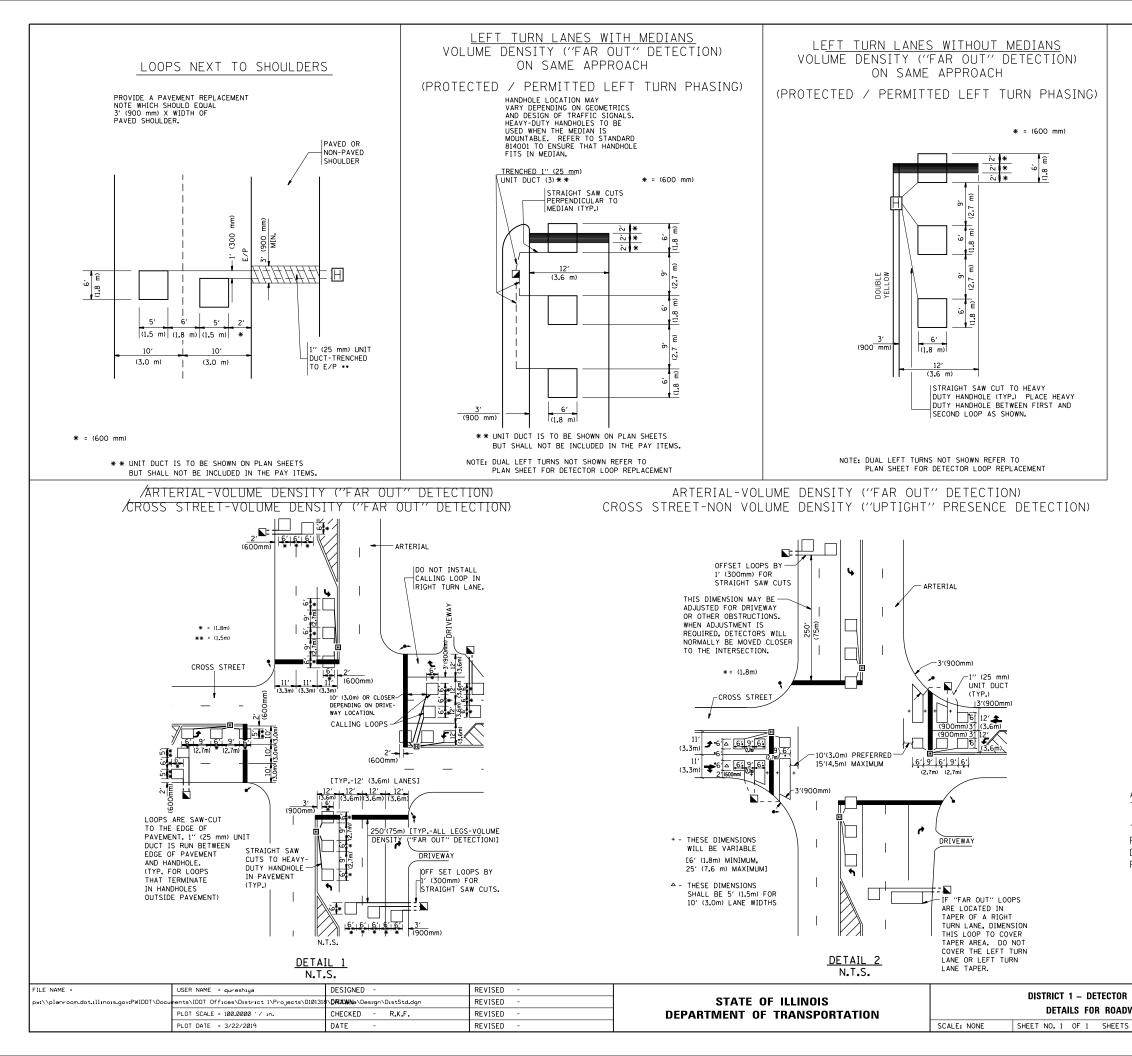


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| pw://planroom.dot.illinois.gov:PWIDOT/Docu | ments\IDOT_Offices\District_I\Projects\D10131 | NDRAWNa\Design\DistStd.dgn | REVISED - | STATE OF ILLINOIS | | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | 333 | 2018-066-RS&SR | LAKE 4 | 40 38 |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | | TS-05 | CONTRACT NO | 10. 62083 |
| Default | PLOT DATE = 3/22/2019 | DATE - | REVISED - | SCALE | | SHEET 6 OF 7 SHEETS STA. TO STA. | | ILLINOIS FED. A | ID PROJECT | |

| | с | HEIGHT | WEIGHT | |
|----|---------------|--------------------------|-----------------|--|
| 1) | 19''(483mm) | 7" (178mm) - 12" (300mm) | 53 lbs (24kg) | |
| m) | 21.5''(546mm) | 7" (178mm) - 12" (300mm) | 68 lbs (31 kg) | |
| n) | 26''(660mm) | 7" (178mm) - 12" (300mm) | 81 lbs (37 kg) | |
| n) | 37''(940mm) | 7" (178mm) - 12" (300mm) | 126 lbs (57 kg) | |



| ONE | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
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| IAL DESIGN DETAILS | | | 333 | 2018-066-RS&SR | LAKE | 40 | 39 | |
| AL DESIGN DETAILS | | TS-05 | | CONTRACT NO. 62G83 | | | | |
| ſS | STA. | TO S | TA. | ILLINOIS FED. AID PROJECT | | | | |



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 <u>ALL</u> 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, <u>MORE</u> 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. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> 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 \underline{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.

| LOOP INSTALLATION WAY RESURFACING | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
|--------------------------------------|-----------------|----------------|----------------|---|-----------------|--------------|------|--|
| | | 333 | 2018-066-RS&SR | LAKE | 40 | 40 | | |
| ~~/ | WAT RESURFACING | | | TS-07 | CONTRACT | NO. 6 | 2683 | |
| | STA. | TO STA. | FED. RC | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |