08-22-14 SPECIAL LETTING ITEM 005

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

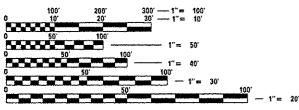
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAP RTE. 353: US RTE. 30 (LINCOLN HIGHWAY)
IL RTE. 50 (CICERO AVE.) TO WESTERN AVE.
SECTION 23R-RS
PAVEMENT PATCHING, DIAMOND GRINDING, AND RESURFACING (3P)
COOK COUNTY

C-91-061-11

THE PROJECT IS LOCATED IN THE VILLAGE OF MATTESON, VILLAGE OF OLYMPIA FIELDS, VILLAGE OF PARK FOREST AND THE CITY OF CHICAGO HEIGHTS IN COOK COUNTY.



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

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

PROJECT ENGINEER: KARI SMITH (847) 705-4437 PROJECT MANAGER: KEN ENG (847) 705-4247 PROJECT BEGINS
STA. 11+97

R 13 E

R 14 E

PROJECT ENDS
STA. 181+86

GROSS LENGTH OF PROJECT = 16,989 FT. = 3.218 MILE NET LENGTH OF PROJECT = 16,989 FT. = 3.218 MILE

CONTRACT NO. 60L94

)

)

23R-RS

COOK 66 1 CONTRACT NO. 60L94



TRAFFIC DATA

2013 ADT = 35,400 POSTED SPEED LIMIT = 35 - 40 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JUNE 12 20 14

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

18 20 14

DIRECTOR OF DESIGN AND ENVIRONMENT

18 20 14

DIRECTOR OF HIGHWAYS, CHIEF ENSINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION | STANDARD NO. |
|-----------|---|------------------------|
| 1 | TITLE SHEET | 000001-06 |
| 2 | INDEX OF SHEETS, HIGHWAY STANDARDS, AND CENERAL NOTES | 420001-07 |
| 3-6 | SUMMARY OF DUANTITIES | 420701-02 |
| 7-10 | TYPICAL SECTIONS | 442101-07 |
| 11-14 | SCHEDULE OF QUANTITIES (PATCHING) | 442201-03 |
| 15-21 | ROADWAY AND PAVEMENT MARKING PLANS | 606001-05 |
| 22-32 | DETECTOR LOOP REPLACEMENT PLANS | 606301-04 |
| 33 | DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 M) (BD-01) | 606306-03 |
| 34 | DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB < | 604001-03 |
| 34 | 15' (4.5 M) (80-02) | 630001-10 |
| 35 | DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08) | 630301-06 |
| 36 | CURB OR CURB AND CUTTER REMOVAL AND REPLACEMENT (80-24) | 631011-09 |
| 37 | BUTT JOINT AND HMA TAPER DETAILS (BD-32) | 635006-03 |
| 38 | HMA TAPER AT EDGE OF PCC PAVEMENT (BD-33) | 701427-02 |
| 39 | DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL (80-34) | 701601-09 |
| 40-58 | PRECAST CONCRETE SLABS (BD-57) | 701602-07 |
| 59 | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10) | 701606-09 701701-09 |
| 60 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW | 701801-05 |
| ••• | PLOW RESISTANT) (TC-II) | 701901-03 |
| 61 | DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13) | 814001-02 |
| 62 | TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14) | 037001 04 |
| 63 | PAVEMENT MARKING LETTERS & SYMBOLS FOR TRAFFIC STAGING (TC-16) | |
| 64 | ARTERIAL ROAD INFORMATION SIGN (TC-22) | |
| 65 | DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAIL, SHEET 1 OF 6 (TS-05) | |

DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY

RESURFACING (TS-07)

HIGHWAY STANDARDS

DESCRIPTION

| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
|-----------|--|
| 420001-07 | PAVEMENT JOINTS |
| 420701-02 | PAVEMENT FABRIC |
| 442101-07 | CLASS B PATCHES |
| 442201-03 | CLASS C AND D PATCHES |
| 606001-05 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 606301-04 | PC CONCRETE ISLANDS AND MEDIANS |
| 606306-03 | CORRUGATED PC CONCRETE MEDIANS |
| 604001-03 | FRAME AND LIDS, TYPE 1 |
| 630001-10 | STEEL PLATE BEAM GUARDRAIL |
| 630301-06 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 631011-09 | TRAFFIC BARRIER TERMINAL, TYPE 2 |
| 635006-03 | REFLECTOR AND TERMINAL MARKER PLACEMENT |
| 701427-02 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER, FOR SPEEDS & 40 MP |
| 701601-09 | URBAN LANE CLOSURE, MULTILANE, IW OR 2W WITH NONTRAVERSABLE MEDIAN |
| 701602-07 | URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE |
| 701606-09 | URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN |
| 701701-09 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701801-05 | LANE CLOSURE, MULTILANE IW OR 2W CROSSWALK OR SIDEWALK CLOSURE |
| 701901-03 | TRAFFIC CONTROL DEVICES |
| 814001-02 | HANDHOLES |
| | |
| | |

GENERAL NOTES

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

TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGE OF MATTESON, VILLAGE OF OLYMPIA FIELDS, VILLAGE OF PARK FOREST AND THE CITY OF CHICAGO HEIGHTS.

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

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

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

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

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

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

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

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

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

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

THE ENGINEER SHALL CONTACT MR. JOE ECKERT, AREA TRAFFIC FIELD ENGINEER, AT (224)-217-8632 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF CONSTRUCTION.

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

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 11/2INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h), WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

| FILE NAME = | USER NAME : detimenore | DESIGNED - | REVISEO - |
|---|-------------------------------|------------|-----------|
| cs\px,work\p+1dot\dettmennre\d0230696\6 | 188111-sht-plan.dgn | DRAWN - | REVISED - |
| , | PLOT SCALE * 100.0000 ' / In. | CHECKED - | REVISED - |
| | PLOT DATE + 6/13/2014 | DATE - | REVISED - |

| STATI | E OI | FILLINOIS |
|------------|------|----------------|
| DEPARTMENT | 0F | TRANSPORTATION |

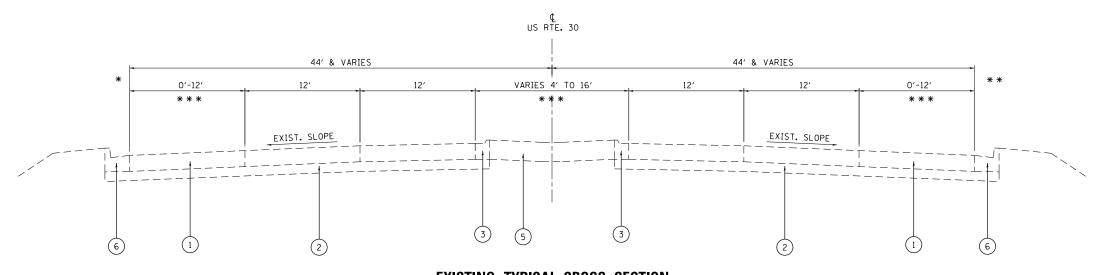
| US RTE. 3 | O (LINCOLN | HWY.) (CICERO | AVE. TO | WESTERN | AVE.) | F.A.P. RTE. | SECTION | COUNTY | TOTAL | SHEE NO. |
|-------------|-----------------|---------------|-----------|-----------|--------|----------------|-----------------|------------|---------|-------------|
| INDEX OF | CHEELS HICH | WAY STANDA | INA 2097 | O CENEDAL | NOTES | 353 | 23R-RS | COOK | 66 | 2 |
| INDEX OF | Gillerio, indii | TIMI SIMIL | GIDG, AIL | ULNLINAL | 140125 | | | CONTRAC | F NO. 6 | 30L94 |
| SCALE: NONE | SHEET NO. | OF SHEETS | STA. | TO STA. | | | ILLINOIS FED. A | ID PROJECT | | |

| | SUMMARY OF QUANTITIES | | | | CONSTRUC | TION TYPE | CODE | | | SUMMARY OF QUANTITIES | | | | CONS | TRUCTION TYPE | CODE | ···· |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|-------|-----------------------|--|--|-----------|--|
| CODE NO | ITEM | TINU | TOTAL QUANTITIES | 0005 100% STATE | | | *** | de de la colonia | CODE NO | ITEM | UNIT | TOTAL | 0005 100% STATE | Minny by Pilina ka a a a a a a a a a a a a a a a a a | | | The state of the s |
| X0327772 | PRECAST CONCRETE PAVEMENT SLABS 10" | SO FT | 14016 | 14016 | | | | | 42101300 | PROTECTIVE COAT | 50 YD | 1649 | 1649 | | Tagas and the state of the stat | | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YO | 390 | 390 | | A de administration de la constitución de la consti | | | 42300400 | PORTLAND CEMENT CONCRETE DRIVEWAY | SO YD | 125 | 125 | | | | |
| | | | | 111111111111111111111111111111111111111 | | | | | A to the second | PAVEMENT, 8 INCH | The state of the s | | | | | | |
| 25200110 | SODDING, SALT TOLERANT | S0 Y0 | 390 | 390 | | | | | | | | | | **** | | | |
| | | | | | | | | | 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 IN | CH SO FT | 225 | 225 | | | | |
| 35501316 | HOT-MIX ASPHALT BASE COURSE, 8" | SQ YD | 125 | 125 | | MINANDA PARAMETERS | | | *************************************** | | | | | | | | |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, | TON | 131 | 131 | | The state of the s | and the same of th | | 42400800 | DETECTABLE WARNINGS | SQ FT | 75 | 75 | | | | |
| | AND FLANGEWAYS | | | | | | | Virtual and the second | Annual control of the | | Arte chert | | | A 444 | | | |
| | | | | | | | | | 44000200 | DRIVEWAY PAVEMENT REMOVAL | 50 YD | 250 | 250 | | | | |
| 40600827 | POLYMERIZED LEVELING BINDER (MACHINE | TON | 2798 | 2798 | | | and the second s | | | | | | | | | | |
| | METHOD), 1L-4.75, N50 | | | | - | **** | And the second s | | 44000600 | SIDEWALK REMOVAL | SO FT | 225 | 225 | | | | |
| 40600895 | CONSTRUCTING TEST STRIP | EACH | 1 | 1 | | | | | 44003100 | MEDIAN REMOVAL | SQ FT | 230 | 230 | | | | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT | SO YD | 393 | 393 | | | | | 44003510 | MEDIAN REMOVAL PARTIAL DEPTH | SO FT | 70326 | 70326 | | | | |
| | TNJOL | | | | | | | | | | | | | | ALAMA PARAMETER | | |
| | | | | | | | | | ************************************* | PARTIAL DEPTH REMOVAL 3" | SO_YO_ | 2985 | 2985 | | Translation and the state of th | | |
| 40600985 | PORTLAND CEMENT CONCRETE SURFACE | SO YO | 1158 | 1158 | | 1 | | | | | | | | | | | |
| | REMOVAL - BUTT JOINT | | · | | | - | | | 44200970 | CLASS B PATCHES, TYPE II. 10 INCH | Sa yo | 1509 | 1509 | | A STATE OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OWNER OF THE OWNER | | |
| 40603085 | HOT-MIX ASPHALT BINDER COURSE, [L-19.0, | TON | 502 | 502 | | | | | 44200974 | CLASS B PATCHES, TYPE III, 10 INCH | SO YO | 344 | 344 | | | | |
| | N70 | 1 | | work of terminal to the control of t | To a 1 to A Constitution of the Constitution o | And the Andread Andrea | | l' | | | | | | | | | |
| 40603335 | HOT-MIX ASPHALT SURFACE COURSE. MIX | TON | 15 | 15 | | OCCUPATION AND ADDRESS OF THE PARTY OF THE P | the state of the s | Managaran Marana Ma | 44200976 | CLASS B PATCHES, TYPE IV, 10 INCH | SQ YD | 1347 | 1347 | and the same and t | | | |
| | "D", N50 | 1.1.1 | The state of the s | and the same of th | 1 A A A A A A A A A A A A A A A A A A A | | ************************************** | ** | 44201299 | DOWEL BARS 1 1/2" | EACH | 4210 | 4210 | | | | |
| | | | | | | | | | 44213204 | TIE BARS 3/4" | EACH | 466 | 466 | | | 1 | |
| 40603595 | POLYMERIZED HOT-MIX ASPHALT SURFACE | TON | 7731 | 7731 | Para de la companya d | | and the second s | | 44201765 | CLASS D PATCHES, TYPE II. 10 INCH | SQ YO | 2129 | 2129 | | | | |
| | COURSE, MIX "F", N90 | Language and the second | | Vantana autora | * | SPECIALT | ITEM | | | | | | | | * SPECIALT | ITEM | |
| file name s | | ESIGNED - | 7 | REVISED - | | *************************************** | | - | 15 | CLASS D PATCHES, TYPE III, 10 INCH | SO YD | 1713 | 1713 | F.A.P. | SECTION | COUNTY | ROV, |
| enpa, saat≥\paildol\dalim | } | RAWN - HECKED - | | REVISED - | | awwagen. | S Nedadtaa | STATE OF | ILLINOIS FRANSPORTAT | US RTE, 30 (LINCOLN HV | /Y.) (CICERO AV \RY OF QUANTI | | KN AVE.) | F.A.P. RTE. 353 | 23R-RS | COOK | TOTAL SHEET SHEETS NO, 66 3 |
| | | ATE - | | REVISED - | | - | ~ FL WU I IA | ENT UP I | nawarukia: | SCALE: SHEET NO. OF | | | STA. | | . NO. 1 | D PROJECT | 60L94 |

| | SUMMARY OF QUANTITIES | | | | CC | ONSTRUCTIO | N TYPE C | ODE | | | SUMMA | RY OF QUANTITIES | | | Ţ | | CONSTRUC | TION TYPE | CODE | |
|--|---------------------------------------|------------------|--|-----------------------|---|--|--|---------|--|--|--|-----------------------|--|--|--|-------------|--|------------------|--|-------------|
| CODE NO | ITEM | UNIT | TOTAL | 0005 100% STATE | er de en | Accession | | | | CODE NO | | ITEM | UNIT | TOTAL | 0005 100% STATE | | *************************************** | | *************************************** | |
| 44201771 | CLASS D PATCHES, TYPE IV, 10 INCH | SO YO | 4964 | 4964 | | | | | | 70102625 | TRAFFIC CON | FROL AND PROTECTION. | L SUM | | 1 | | | | | |
| | | | | - | | | | | | | STANDARD 70 | 1606 | - | Branch and a state of the state | | | | | | |
| 44213100 | PAVEMENT FABRIC | SQ YD | 1691 | 1691 | | | | | | | | | | | ************* | | - | | American de la company de la c | |
| | | | and the same of th | - | | | | | | 70102630 | TRAFFIC CON | TROL AND PROTECTION. | L SUM | 1 | A Particular Particula | - | | | | |
| 44213200 | SAW CUTS | FOOT | 17964 | 17964 | | | | | | | STANDARD 70 | 1601 | | | And the second s | | A particular and a part | - | | |
| | | | Avvenuelle de la constitución de | | *************************************** | | | | | 4 | | | | | | | | | | |
| 60252800 | CATCH BASINS TO BE RECONSTRUCTED | EACH | 5 | 5 | | | | | | 70102632 | TRAFFIC CON | TROL AND PROTECTION. | L SUM | 1 | manuscon de chemistroni | | | | | |
| | | | | | | | | | | | STANDARD 70 | 1602 | de de la companya de | *************************************** | The state of the s | | | | ~~~ | |
| 60300305 | FRAMES AND LIDS TO BE ADJUSTED | EACH | 150 | 150 | | | | | 1 | | | | of calculations and calculations are calculated as a calculation of calculation of calculations are calculated as a calculation of calculation of calculations are calculated as a calculation of calculation of calculations are calculated as a calculation of calculation of calculation of calculations are calculated as a calculation of calculation of calculations are calculated as a calculation of calculation o | | | | | | | |
| | | | | | | | | | : | 70102635 | TRAFFIC CON | TROL AND PROTECTION, | L SUM | Per de la constitución de la con | West Statement of | | - | | | |
| 60406000 | FRAMES AND LIDS. TYPE 1. OPEN LID | EACH | 5 | 5 | | | 1 | | | aguille aguill | STANDARD 70 | 1701 | Office and the second s | | | | | | | |
| | | | | | | | | | | | | | | | <u> </u> | | | | | |
| 60406100 | FRAMES AND LIDS, TYPE 1, CLOSED LID | EACH | 29 | 29 | | | | | | 70102640 | TRAFFIC CON | FROL AND PROTECTION, | L SUM | 1 | 1 | | | | | |
| | | ** | | | | | | | | | STANDARD 70 | 1801 | appropriet | | | | | | | |
| 6061/8300 | CONCRETE MEDIAN SURFACE, 4 INCH | SO FT | 2158 | 2158 | | | | | | | | | - | | | | | | | |
| | | | | | | | | ., | | 70300100 | SHORT-TERM I | PAVEMENT MARKING | FOOT | 80201 | 80201 | | <u> </u> | | | |
| 60622000 | CONCRETE MEDIAN, TYPE SM-2.12 | SQ FT | 60 | 60 | | | | | | | · · · · · · · · · · · · · · · · · · · | | *** | | | | | | | |
| | | umziarotusaano | *************************************** | | | | | | | 70300210 | TEMPORARY P | AVEMENT MARKING | SO FT | 1858 | 1858 | | <u> </u> | | | |
| 60624600 | CORRUGATED MEDIAN | SQ FT | 230 | 230 | | | | | | | - LETTERS AI | ND SYMBOLS | | | en tribunoscorrent | · | | | | |
| 63000001 | STEEL PLATE BEAM GUARDRA(L, TYPE A, 6 | FOOT | 150 | 150 | | | | | | 70300220 | TEMPORARY PA | AVEMENT MARKING | FOOT | 64880 | 64880 | | | | | |
| 030,0307 | FOOT POSTS | | The state of the s | 1 | | | | | | | - LINE 4" | | | Annual vancourse manager | | | | | | |
| and the same of th | | | | | | | | | | | ······································ | 1 | | | | | | | The state of the s | |
| 63100045 | TRAFFIC BARRIER TERMINAL. TYPE 2 | EACH | 2 | 2 | | - | | | | 70300240 | TEMPORARY P | AVEMENT MARKING | FOOT | 8695 | 8695 | | and the same of th | | | |
| A Particular Annual | | | | | | | | | AN ARTHUR PROPERTY AND ART | | - LINE 6" | | - | TO A DESCRIPTION OF THE PROPERTY OF THE PROPER | | | | | | |
| 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 | EACH | 2 | 2 | | | | | A REAL PROPERTY AND A STATE OF THE STATE OF | | | | | | | | | | | |
| | (SPECIAL) TANGENT | | | | | | *************************************** | | THE CONTRACTOR OF THE CONTRACT | 70300250 | TEMPORARY P | AVEMENT MARKING | FOOT | 356 | 356 | | | | | |
| | | | | | | *************************************** | | | | Vanna annua an | - LINE 8" | | | | <u> </u> | | | | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 12 | 12 | | and the state of t | We will be a second of the sec | | | | | | | | | | | | - | |
| | | | - | | | | SPECIALTY | iten | Value | 70300260 | - LINE 12" | AVEMENT MARKING | FOOT | 2670 | 2670 | . Mr. | SPEC (AL | TY ITEM | Annual Property of the Propert | |
| 67100100 | MOBILIZATION USER MAME = delimpowa | L SUM DESIGNED - | | I REVISED | <u> . </u> | | | | | 11 | | T | | | <u></u> | F.A. RTE | | SECTION | COUNTY | Rey. |
| | non/ra/d0230696\D106#-shi-pholdgn | DRAWN - | | REVISED |) - | | | | STATE OF | | | US RTE. 30 (LINCOLN H | WY.) (CICERO A' IARY OF QUANT | | ERN AVE.) | 81E 35. | | Z3R-RS | COOK | 66 4 |
| | | CHECKED - | | REVISED REVISED | | | D | DEPARTN | IENT OF T | RANSPORTA | IIUN | 1 | SHEETS STA | | TO STA. | FED | . ROAD DIST. NO | . 1 SLLINOIS FED | CONTRAC | T NO. 60L94 |

| | SUMMARY OF QUANTITIES | | T | ļ | CONST | RUCTIO | N TYPE | CODE | | 1 | SUMMA | RY OF QUANTITIES | | | | C | ONSTRUCT | ON TYPE | CODE | |
|---|--|--|---------------------|--|--|--|-------------|--|---|--------------------------|---------------|--------------------------------------|------------|-------|--|-----------------------|---|--|---|---------------------------------|
| CODE NO | ITEM | UNIT | TOTAL QUANTITIES | 0005 100% STATE | - | ************************************** | | | *************************************** | CODE NO | | ITEM | UNIT | TOTAL | 0005 100% STATE | | estilisti de este esta esta esta esta esta esta est | -strukerstandunk-untarteikerste | *************************************** | |
| 70300280 | TEMPORARY PAVEMENT MARKING | FOOT | 1140 | 1140 | Value of the state | *************************************** | | | | * 78008250 | POLYUREA PA | /EMENT MARKING TYPE I - LINE 12 | FOOT | 616 | 616 | | | | | |
| | - LINE 24" | | | Verification of the state of th | *** | elio de la companya d | | | | | | | | | | <u>.</u> | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ FT | 33047 | 33047 | | | | | *************************************** | * 78008270 | POLYUREA PAY | EMENT MARKING TYPE I - LINE 24 | FOOT | 636 | 636 | | | | | |
| | | | | The state of the s | | - | | | | | | | | | | | | | | |
| * 78000100 | THERMOPLASTIC PAVEMENT MARKING | SO FT | 656 | 656 | A PARAMETER DE | | | | | | | | | | | | | | | |
| | - LETTERS AND SYMBOLS | | | and the state of t | | | | | | * 78100100 | RAISED REFLI | CTIVE PAVEMENT MARKER | EACH | 2486 | 2486 | | | Annual Paris | | |
| | | | | a de la companya de l | 1111 | *************************************** | | | | | | | | | The state of the s | | | | | |
| * 78000200 | THERMOPLASTIC PAVEMENT MARKING | FOOT | 37950 | 37950 | *************************************** | | | | | * 78201000 | TERMINAL MAI | RKER - DIRECT APPLIED | EACH | 4 | 4 | | | | | |
| | - LINE 4" | | | | | | | | | | | | | | | | | | | |
| | | | | The state of the s | | | | Andrew States and Angres States State | | 78300100 | PAVEMENT MAI | RKING REMOVAL | SQ FT | 300 | 300 | | | | ļ | |
| * 78000400 | THERMOPLASTIC PAVEMENT MARKING | FOOT | 3246 | 3246 | *************************************** | | | | | | | | | | | | | | | |
| - | - LINE 6" | | | | | - | | | | 78300200 | RAISED REFLE | CCTIVE PAVEMENT MARKER | EACH | 1925 | 1925 | | | | <u> </u> | |
| | | | | | To a second | *************************************** | | | | | REMOVAL | | | | | | | | | |
| * 78000600 | THERMOPLASTIC PAVEMENT MARKING | FOOT | 2054 | 2054 | 1 | | | | | | | | | | | | | | | |
| | - Line 12" | | | | - | | ···· | | | * 88600600 | DETECTOR LO | P REPLACEMENT | FOOT | 1583 | 1583 | | | | | |
| * 78000650 | THERMOPLASTIC PAVEMENT MARKING | FOOT | 504 | 504 | **** | | | | | * 89502376 | BERUILO EXI | STING HANDHOLE | EACH | 8 | 8 | | | | | |
| 7000000 | - LINE 24" | | - | 201 | an in the second | | | A | | 02332373 | 7,000,00 | | | | | | | | | |
| | | | | | The state of the s | · | | - Annual | | x0326767 | PROFILE DIA | MOND GRINDING CONCRETE | SO YD | 78882 | 78882 | | | | | |
| * 78008200 | POLYUREA PAVEMENT MARKING TYPE 1 - | SO FT | 1202 | 1202 | dentification of the second se | | ····· | Vandana and Antonia and Antoni | | | PAVEMENT | | | | venneli (revenne) | | | | | |
| | LETTERS AND SYMBOLS | | | | | | | | | | | | | | | | | | | |
| *************************************** | | | | | | | | | | X4060110 | BITUMINOUS I | MATERIALS (PRIME COAT) | POUND | 50759 | 50759 | | | | | |
| * 78008210 | POLYUREA PAVEMENT MARKING TYPE I - LINE 4" | FOOT | 26930 | 26930 | | | | | | | | | | | | | | | | |
| | | | | | and an | | | | | X4400100 | PORTLAND CE | MENT CONCRETE SURFACE | SO YO | 11052 | 1 1052 | | | AND THE PROPERTY OF THE PROPER | | |
| | | | | | and the state of t | | | | | belivere red moderators. | REMOVAL (VAI | RIABLE DEPTH) | | | | | | | | |
| * 78008230 | POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6" | FOOT | 5449 | 5449 | | | | | | | | | | | | | | | | |
| | | | | | THE PROPERTY OF THE PROPERTY O | | | | *************************************** | X4402020 | CONCRETE ME | DIAN SURFACE REMOVAL | SQ FT | 2218 | 2218 | | | | | |
| | | and the second s | | | | | | Annual An | | | | | | | | | | | | <u></u> |
| * 78008246 | POLYUREA PAVEMENT MARKING TYPE I - LINE 8" | FOOT | 356 | 356 | | | | | | X4423015 | DOWEL BARS | 1 1/2" RETROFIT | EACH | 2040 | 2040 | | cpcarrie | | | <u> </u> |
| FILE NAME : | USER NAME = dethinorary DES | IGNED - | <u> </u> | REVISED | * \$P£(| LIALTY | 1 I EM | and a second | | 13 | | | | | | I E A R | SPECIALTY | TION | COUNTY | TOTAL SHEET SHEETS NO. |
| I | tettmonry o'd0230696-Dr06/II-shi-ploodgn DRJ | | | REVISED REVISED | - | | | | ATE OF | ILLINOIS RANSPORTA | TION | US RTE. 30 (LINCOLN HWY.) SUMMARY | OF QUANT | | ERN AVE.) | F.A.P. RTE. 353 | 238 | -RS | COOK | SHEETS NO. 66 5 NO. 60L94 |
| | | E - | | REVISED | | | | | | | | SCALE: SHEET NO. OF | SHEETS STA | | O STA. | FEO. I | ROAD DIST. NO. 1 | ILLINOIS FED. A | | 00137 |

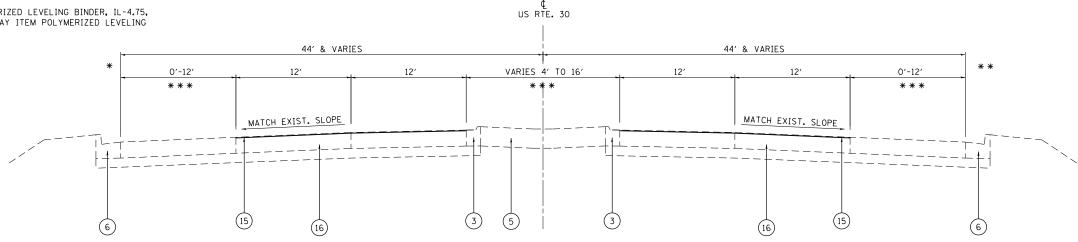
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| CODE NO TERM UNIT OUNTITIES \$\frac{1}{1500}\$ \\ \text{251700} \\ \text{2517000} \\ \text{251700} \\ \text{2517000} \\ \text{251700} \\ \text{251700} \\ \text{251700} \\ \text{2517000} \\ \text{25170000} \\ \text{251700000} \\ 2517000000000000000000000000000000000000 | |
| ###################################### | |
| # 39502316 REQUISE EXISTING MAGNOULE TO MEASY-BUTY SLACH 7 7 7 MANDROULE X2043500 PREFORMED JOINT FILLER REMOVAL FOOT 24192 24192 Z0004502 COMBINATION CONCRETE CURB AND OUTER FOOT 4067 REMOVAL AND REPLACEMENT Z0013600 DRAINAGE STRUCTURES TO BE CLEANED EACH 240 340 Z0033680 TEUPONARY INFORMATION STONING 50 FT 102.8 102.8 ################################### | |
| # 39502316 REQUILD EXISTING HANDWOLE TO HEAVY-DUTY EACH 7 7 | |
| ### ################################## | |
| ### ### ### ### ### ### ### ### ### ## | |
| X2043000 PREFORMED JOINT FILLER REMOVAL FOOT 24192 24192 ZO004562 COMBINATION CONCRETE CURB AND CUTTER FOOT 4067 4067 REMOVAL AND REPLACEMENT ZO018500 DRAINAGE STRUCTURES TO BE CLEARED EACH 240 240 ZO030850 TEMPORARY INFORMATION SIGNING SO FT 102.8 102.8 E-HAND SO TORTIAL DEPTH REMOVAL TYPE 2 3" SQ YO 400 400 400 440 440 440 440 440 440 44 | |
| ZO004562 COMBINATION CONCRETE CURB AND GUTTER FOOT 4067 REMOVAL AND REPLACEMENT ZO018500 GRAINAGE STRUCTURES TO BE CLEANED EACH 240 240 ZO018500 TEMPORARY INFORMATION SIGNING SO FT 102.8 102.8 ZHHBUS30 CRETIAL DEPTH REMOVAL TYPE 2 3" SQ YD GDO GDO XHHBUS30 CRETIAL DEPTH REMOVAL TYPE 3 3" SQ YD 1485 1485 XHHBUS30 CRETIAL DEPTH REMOVAL TYPE 4 3" SQ YD 1485 1485 | |
| REMOVAL AND REPLACEMENT | |
| REMOVAL AND REPLACEMENT | |
| Z0018500 DRAINAGE STRUCTURES TO BE CLEANED EACH 240 240 Z0030850 TEMPORARY INFORMATION SIGNING SO FT 102.8 102.8 XH4DU230 PRETIAL DEPTH REMOVAL, TYPE 2.3" SQ. YD. (e00 600 XH4DU430 FRETIAL DEPTH REMOVAL, TYPE 3.3" SQ. YD. 900 900 XH4DU430 FRETIAL DEPTH REMOVAL, TYPE 4.3" SQ. YD. 1485, 1485 | |
| Z0030850 TEMPORARY INFORMATION SIGNING S0 FT 102.8 102.8 X4406230 PARTIAL DEPTH REMOVAL, TYPE 2. 3" 50, YD 600 600 X4406430 PARTIAL DEPTH REMOVAL, TYPE 3. 3" 50, YD 1485 1485 X4406630 PARTIAL DEPTH REMOVAL, TYPE 4. 3" 50, YD 1485 1485 | |
| Z0030850 TEMPORARY INFORMATION SIGNING SO FT 102.8 102.8 X44UW230 PARTIAL DEPTH REMOVAL, TYPE 2 3" 5Q YD 600 600 X44UW30 PARTIAL DEPTH REMOVAL, TYPE 3 3" 5Q YD 900 900 X44UW30 PARTIAL DEPTH REMOVAL, TYPE 4 3" 5Q YD 1485 1485 Ø Z0076604 TRAINEES - TRAINING HOUR 500 500 | |
| X4406430 PARTIAL DEPTH REMOVAL, TYPE 2 3" 50 YD 600 600 X4406430 PARTIAL DEPTH REMOVAL, TYPE 3 3" 50 YD 900 900 X4406430 PARTIAL DEPTH REMOVAL, TYPE 4 3" 50 YD 1485 1485 Ø ZOOTGGOU TRAINEES - TRAINING HOUR 500 500 | |
| X4406430 PARTIAL DEPTH REMOVAL, TYPE 2 3" 50 YD 600 600 X4406430 PARTIAL DEPTH REMOVAL, TYPE 3 3" 50 YD 900 900 X4406430 PARTIAL DEPTH REMOVAL, TYPE 4 3" 50 YD 1485 1485 Ø ZOOTGGOU TRAINEES - TRAINING HOUR 500 500 | |
| X4406430 PARTIAL DEPTH REMOVAL, TYPE 3 3" 5Q YD 900 900 X44066604 TRAINEES - TRAINING HOUR 500 500 | |
| X4406430 PARTIAL DEPTH REMOVAL, TYPE 3 3" 5Q YD 900 900 X44066630 PARTIAL DEPTH REMOVAL, TYPE 4 3" 5Q YD 1485 1485 Ø ZOOTGGO TRAINIES - TRAINING HOUR 500 500 | |
| X4406630 PARTIAL DEPTH REMOVAL, TYPE 4 3" 5Q YD 1485 1485 Ø 70076604 TRAINEES - TRAINING HOUR 500 500 | |
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| * SPECIALTY ITEM | |
| 1 0042 | . Rey. |
| FILE NAME: SER NAME | COUNTY TOTAL SHEE SHEETS NO. COOK 66 6 CONTRACT NO. 60194 |



- * RIGHT TURN LANE FROM APPROX. STA. 63+25 TO STA. 68+00 & STA. 101+00 TO STA. 106+50
- ** RIGHT TURN LANE FROM APPROX. STA. 58+00 TO STA. 62+25.
- *** SEE ROADWAY AND PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS OF THE PAINTED MEDIANS AND LEFT TURN BAYS.
- ****
 COST OF VARIABLE DEPTH POLYMERIZED LEVELING BINDER, IL-4.75,
 N50 SHALL BE INCLUDED IN THE PAY ITEM POLYMERIZED LEVELING
 BINDER, IL-4.75, N50.

EXISTING TYPICAL CROSS SECTION US RTE. 30 (IL RTE. 50 TO HILLTOP AVE.)

STA. 11+67 TO STA. 101+44 STA. 108+87 TO STA. 110+73



LEGEND

- 1) EXISTING P.C.C. PAVEMENT, 10"
- 2) EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A, 6"
- (3) EXISTING COMB. CONCRETE CURB & GUTTER, TYPE M-2.12
- (4) EXISTING CONCRETE MEDIAN TYPE SM-2.12
- (5) EXISTING STABILIZED MEDIAN SURFACE, 12"
- (6) EXISTING COMB. CONCRETE CURB & GUTTER, TYPE B-6.24
- (7) EXISTING CONCRETE MEDIAN SURFACE, 4"
- (8) EXISTING SAND FILL
- 9) EXISTING COMB. CONCRETE CURB & GUTTER, TYPE SB-9.12
- (10) P.C.C. SURFACE REMOVAL (VAR. DEPTH)
- (11) MEDIAN REMOVAL, PARTIAL DEPTH
- (12) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 (VAR. DEPTH)
- (13) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 13/4"
- (15) PROPOSED PROFILE DIAMOND GRINDING CONCRETE PAVEMENT, 36" TO 1/4"
- PROPOSED PRECAST PANELS OR CLASS B PATCHING (SEE PATCHING SCHEDULE)

PROPOSED TYPICAL CROSS SECTION US RTE. 30 (IL RTE. 50 TO HILLTOP AVE.)

STA. 11+67 TO STA. 101+44 STA. 108+87 TO STA. 110+73

NOTES

- 1. COST OF REMOVAL OF PORTION OF P.C.C. CURB ABOVE GUTTER TO BE INCLUDED WITH MEDIAN REMOVAL, PARTIAL DEPTH.
 THE CONTRACTOR SHALL MATCH THE EXIST. ADJACENT PAVEMENT CROSS SLOPE FOR MEDIAN REMOVAL, PARTIAL DEPTH.
- 2. EXIST. SAND FILL AND 4" CONCRETE MEDIAN SURFACE FROM STA. 101+44 TO STA. 108+87
- 3. EXIST. CONCRETE MEDIAN TYPE SB-9.12 FROM STA. 100+44 TO STA. 101+44 SHALL NOT BE REMOVED.
- 4. CONTRACTOR SHALL PATCH FIRST.

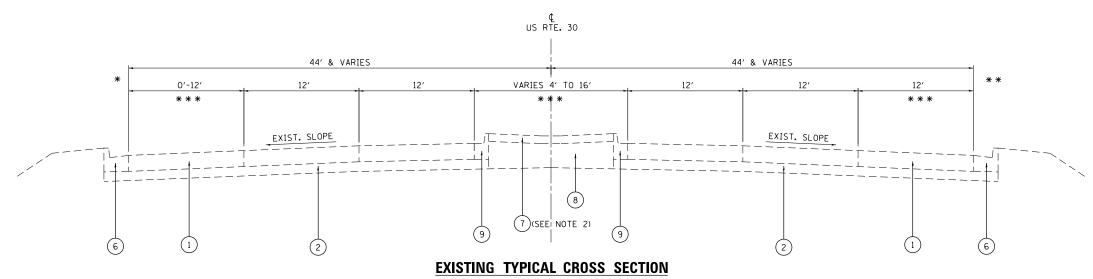
| HOT-MIX ASPHALT MIXTURE REQUIREMENTS | ASPHALT MIXTURE REQUIREMENTS | | | | | | | | | |
|---|------------------------------|---------------|--|--|--|--|--|--|--|--|
| MIXTURE TYPE | AIR VOIDS @ Ndes | PROGRAM (QMP) | | | | | | | | |
| POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5 mm) | 4% @ 90 GYR. | QCP | | | | | | | | |
| POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | 3.5% @ 50 GYR. | QCP | | | | | | | | |
| CLASS D PATCHES (HMA BINDER IL-19 mm), 10" | 4% @ 70 GYR. | QC/QA | | | | | | | | |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 | 4% @ 70 GYR. | QC/QA | | | | | | | | |
| HMA SURFACE COURSE, MIX "D", N50 (IL-9.5mm) | 4% @ 50 GYR. | QC/QA | | | | | | | | |
| HMA BASE COURSE, 8" (HMA BINDER IL-19.0) | 4% @ 50 GYR. | QC/QA | | | | | | | | |
| OMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PE | ERFORMANCE (QCP) | | | | | | | | | |

THE UNIT WEIGHT TO BE USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

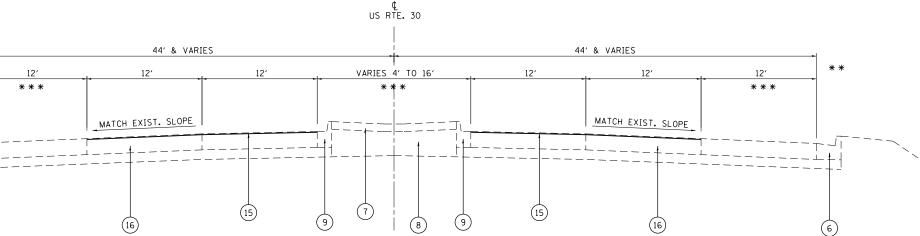
| FILE NAME = | USER NAME = dettmannra | DESIGNED - | REVISED - | | IIS RTF 3 | O TINCOLN | HW/V) (| CICERO | AVF T | O WESTERN AVE.) | RTF. | SECTION | COUNTY | SHE | FTS STE | .of.' |
|---|------------------------------|------------|-----------|------------------------------|-------------|-----------|----------|---------|-------|-----------------|------|--------------|---------------|--------|---------|-------|
| c:\pw_work\pwidot\dettmannra\d0230696\D | 06111-sht-plan.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | 00 1112.0 | • | , , | • | | O WESTEIN AVE., | 353 | 23R-RS | соок | 6 | 6 - | ٦ |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | TYPICAL | r Secii | ON2 | | | 2011 110 | CONTRA | ACT NO | 60L9 | 94 |
| | PLOT DATE = 6/19/2014 | DATE - | REVISED - | | SCALE: NONE | SHEET NO. | OF S | SHEETS | STA. | TO STA. | | ILLINOIS FED | . AID PROJECT | | | |



US RTE. 30 (IL RTE. 50 TO HILLTOP AVE.)

STA. 101+44 TO STA. 108+87

- * RIGHT TURN LANE FROM APPROX. STA. 63+25 TO STA. 68+00 & STA. 101+00 TO STA. 106+50
- ** RIGHT TURN LANE FROM APPROX. STA. 58+00 TO STA. 62+25.
- *** SEE ROADWAY AND PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS OF THE PAINTED MEDIANS AND LEFT TURN BAYS.
- ****
 COST OF VARIABLE DEPTH POLYMERIZED LEVELING BINDER, IL-4.75,
 N50 SHALL BE INCLUDED IN THE PAY ITEM POLYMERIZED LEVELING
 BINDER, IL-4.75, N50.



LEGEND

- (1) EXISTING P.C.C. PAVEMENT, 10"
- 2) EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A, 6"
- (3) EXISTING COMB. CONCRETE CURB & GUTTER, TYPE M-2.12
- 4 EXISTING CONCRETE MEDIAN TYPE SM-2.12
- (5) EXISTING STABILIZED MEDIAN SURFACE, 12"
- 6) EXISTING COMB. CONCRETE CURB & GUTTER, TYPE B-6.24
- (7) EXISTING CONCRETE MEDIAN SURFACE, 4"
- (8) EXISTING SAND FILL
- (9) EXISTING COMB. CONCRETE CURB & GUTTER, TYPE SB-9.12
- (10) P.C.C. SURFACE REMOVAL (VAR. DEPTH)
- (11) MEDIAN REMOVAL, PARTIAL DEPTH
- (12) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 (VAR. DEPTH)
- (13) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 13/4"
- (15) PROPOSED PROFILE DIAMOND GRINDING CONCRETE PAVEMENT, 36" TO 1/4"
- (16) PROPOSED PRECAST PANELS OR CLASS B PATCHING (SEE PATCHING SCHEDULE)

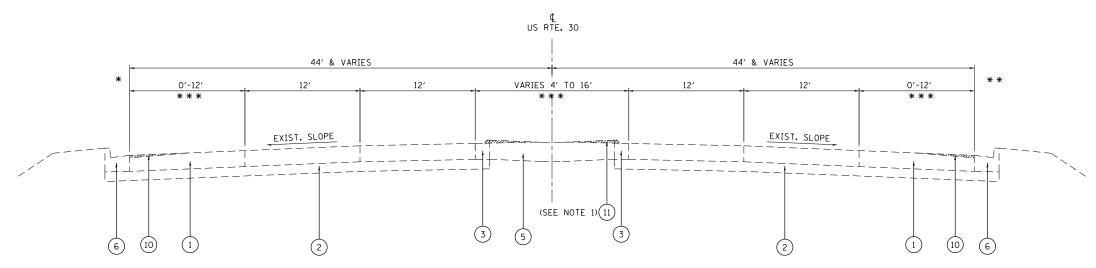
PROPOSED TYPICAL CROSS SECTION US RTE. 30 (IL RTE. 50 TO HILLTOP AVE.)

STA. 101+44 TO STA. 108+87

NOTES

- 1. COST OF REMOVAL OF PORTION OF P.C.C. CURB ABOVE GUTTER TO BE INCLUDED WITH MEDIAN REMOVAL, PARTIAL DEPTH.
 THE CONTRACTOR SHALL MATCH THE EXIST. ADJACENT PAVEMENT CROSS SLOPE FOR MEDIAN REMOVAL, PARTIAL DEPTH.
- 2. EXIST. SAND FILL AND 4" CONCRETE MEDIAN SURFACE FROM STA. 101+44 TO STA. 108+87
- 3. EXIST. CONCRETE MEDIAN TYPE SB-9.12 FROM STA. 100+44 TO STA. 101+44 SHALL NOT BE REMOVED.
- 4. CONTRACTOR SHALL PATCH FIRST.

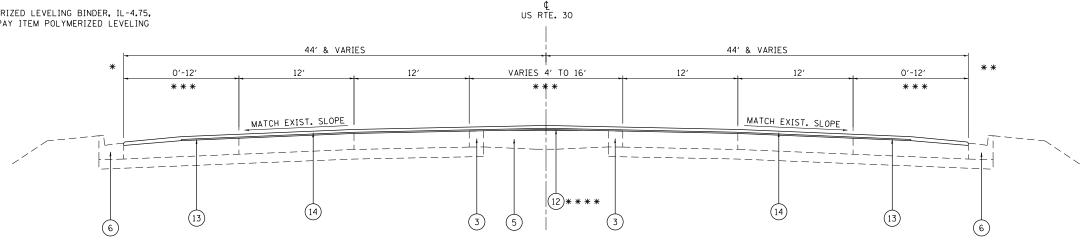
| FILE NAME = | USER NAME = dettmannra | DESIGNED - | REVISED - | | US RTE. 30 (LINCOLN HWY.) (CICERO AVE. TO WESTERN AVE.) | F.A.P. RTF. | SECTION | COUNTY TOTAL SHEET |
|---|------------------------------|------------|-----------|------------------------------|---|----------------|-------------|--------------------|
| c:\pw_work\pwidot\dettmannra\d0230696\[| 106111-sht-plan.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | TYPICAL SECTIONS | 353 | 23R-RS | COOK 66 8 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | TTPICAL SECTIONS | , | | CONTRACT NO. 60L94 |
| | PLOT DATE = 6/19/2014 | DATE - | REVISED - | | SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. | | ILLINOIS FE | D. AID PROJECT |



- * RIGHT TURN LANE FROM APPROX. STA. 63+25 TO STA. 68+00 & STA. 101+00 TO STA. 106+50
- ** RIGHT TURN LANE FROM APPROX. STA. 58+00 TO STA. 62+25.
- *** SEE ROADWAY AND PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS OF THE PAINTED MEDIANS AND LEFT TURN BAYS.
- *** COST OF VARIABLE DEPTH POLYMERIZED LEVELING BINDER, IL-4.75, N50 SHALL BE INCLUDED IN THE PAY ITEM POLYMERIZED LEVELING BINDER, IL-4.75, N50.

EXISTING TYPICAL CROSS SECTION US RTE. 30 (IL RTE. 50 TO HILLTOP AVE.)

STA. 110+73 TO STA. 181+86



EXISTING P.C.C. PAVEMENT, 10"

LEGEND

- EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A, 6"
- EXISTING COMB. CONCRETE CURB & GUTTER, TYPE M-2.12
- EXISTING CONCRETE MEDIAN TYPE SM-2.12
- EXISTING STABILIZED MEDIAN SURFACE, 12"
- EXISTING COMB. CONCRETE CURB & GUTTER, TYPE B-6.24
- EXISTING CONCRETE MEDIAN SURFACE, 4"
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- (10) P.C.C. SURFACE REMOVAL (VAR. DEPTH)
- MEDIAN REMOVAL, PARTIAL DEPTH
- (12) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 (VAR. DEPTH)
- (13) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (14) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 13/4"
- (15) PROPOSED PROFILE DIAMOND GRINDING CONCRETE PAVEMENT, 3/6" TO 1/4"
- (16) PROPOSED PRECAST PANELS OR CLASS B PATCHING (SEE PATCHING SCHEDULE)

PROPOSED TYPICAL CROSS SECTION US RTE. 30 (IL RTE. 50 TO HILLTOP AVE.)

STA. 110+73 TO STA. 181+86

NOTES

- 1. COST OF REMOVAL OF PORTION OF P.C.C. CURB ABOVE GUTTER TO BE INCLUDED WITH MEDIAN REMOVAL, PARTIAL DEPTH. THE CONTRACTOR SHALL MATCH THE EXIST. ADJACENT PAVEMENT CROSS SLOPE FOR MEDIAN REMOVAL, PARTIAL DEPTH.
- 2. EXIST. SAND FILL AND 4" CONCRETE MEDIAN SURFACE FROM STA. 101+44 TO STA. 108+87
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- 4. CONTRACTOR SHALL PATCH FIRST.

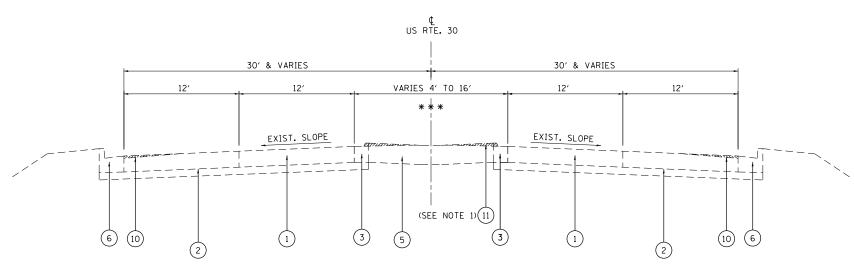
DETAIL A LONGITUDINAL JOINT REPAIR (TYP.)

(LOCATIONS TO BE DETERMINED BY ENGINEER)

| 18" 18" PARTIAL DEPTH REMOVAL, 3" |
|-----------------------------------|
| HMA BINDER COURSE, IL-19.0, N70 |

COOK 66 9 CONTRACT NO. 60L94

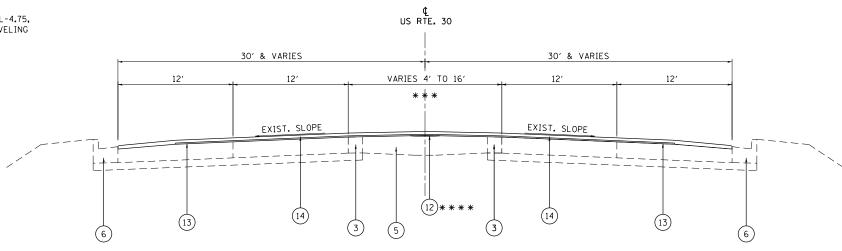
| FILE NAME = | USER NAME = dettmannra | DESIGNED - | REVISED - | | US RTE. 30 (LINCOLN HWY.) (CICERO AVE. TO WESTERN AVE.) | F.A.P. | SECTION | COUNTY |
|--|-------------------------------|------------|-----------|------------------------------|---|--------|-----------------|------------|
| c:\pw_work\pwidot\dettmannra\d0230696\ | 0106111-sht-plan.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | 353 | 23R-RS | соок |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | TYPICAL SECTIONS | | 2011 110 | CONTRAC |
| | PLOT DATE = 6/19/2014 | DATE - | REVISED - | | SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. | | ILLINOIS FED. A | ID PROJECT |



- * RIGHT TURN LANE FROM APPROX. STA. 63+25 TO STA. 68+00 & STA. 101+00 TO STA. 106+50
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- *** COST OF VARIABLE DEPTH POLYMERIZED LEVELING BINDER, IL-4.75, N50 SHALL BE INCLUDED IN THE PAY ITEM POLYMERIZED LEVELING BINDER, IL-4.75, N50.

EXISTING TYPICAL CROSS SECTION WESTERN AVE

STA. 2+17 TO STA. 13+93



LEGEND

- EXISTING P.C.C. PAVEMENT, 10"
- EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A, 6"
- EXISTING COMB. CONCRETE CURB & GUTTER, TYPE M-2.12
- EXISTING CONCRETE MEDIAN TYPE SM-2.12
- EXISTING STABILIZED MEDIAN SURFACE, 12"
- EXISTING COMB. CONCRETE CURB & GUTTER, TYPE B-6.24
- EXISTING CONCRETE MEDIAN SURFACE, 4"
- (8) EXISTING SAND FILL
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- (13) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (14) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 13/4"
- PROPOSED PROFILE DIAMOND GRINDING CONCRETE PAVEMENT, 36" TO 1/4"
- PROPOSED PRECAST PANELS OR CLASS B PATCHING (SEE PATCHING SCHEDULE)

EXISTING TYPICAL CROSS SECTION WESTERN AVE

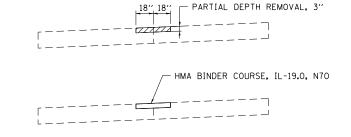
STA. 2+17 TO STA. 13+93

NOTES

- 1. COST OF REMOVAL OF PORTION OF P.C.C. CURB ABOVE GUTTER TO BE INCLUDED WITH MEDIAN REMOVAL, PARTIAL DEPTH. THE CONTRACTOR SHALL MATCH THE EXIST. ADJACENT PAVEMENT CROSS SLOPE FOR MEDIAN REMOVAL, PARTIAL DEPTH.
- 2. EXIST. SAND FILL AND 4" CONCRETE MEDIAN SURFACE FROM STA. 101+44 TO STA. 108+87
- 3. EXIST. CONCRETE MEDIAN TYPE SB-9.12 FROM STA. 100+44 TO STA. 101+44 SHALL NOT BE REMOVED.
- 4. CONTRACTOR SHALL PATCH FIRST.

DETAIL A LONGITUDINAL JOINT REPAIR (TYP.)

(LOCATIONS TO BE DETERMINED BY ENGINEER)



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| | PLOT DATE = 6/19/2014 | DATE - | REVISED - |

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

| Ī | US RIE. 30 (LINCOLN HWY.) (CICERO AVE. 10 WESTERN AVE.) | | | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
|---|---|-----------|----|--------|------|----------------|---------|--------|-----------------|--------------|-------|-------|
| l | TYPICAL SECTIONS | | | | | | 353 | 23R-RS | соок | 66 | 10 | |
| L | | | | | | | | | | CONTRACT | NO. (| 60L94 |
| L | SCALE: NONE | SHEET NO. | OF | SHEETS | STA. | TO STA. | | | ILLINOIS FED. A | ID PROJECT | | |

PRECAST PATCHES CROSS STREET WIDTH LENGTH AREA DIRECTION LANE FROM TO (FT) (FT) (SQFT) at Kostner Intersection EΒ LTL 12 8 96 EΒ 3 12 8 96 at Governor's Intersection 3 at Governor's EΒ 12 16 192 Intersection EΒ 3 12 16 192 at Governor's Intersection EΒ at Governor's Intersection 3 12 16 192 Resurfacing Limit WB 2 12 8 96 Olympian Way 2 Resurfacing Limit Olympian Way WB 12 8 96 WB 2 8 96 12 Resurfacing Limit Olympian Way WB 2 96 Olympian Way Main 12 8 Olympian Way WB 2 12 8 Main 96 2 12 16 192 Olympian Way Main WB 2 Main WB 12 16 192 Olympian Way WB 12 8 Olympian Way Main 2 96 Main WB 2 12 16 192 Governor's Main WB 2 12 16 192 Governor's 2 Main Governor's WB 12 8 96 WB 2 8 96 Main 12 Governor's Main WB 2 12 16 192 Governor's 2 12 8 Main Governor's WB 96 Main WB 2 12 16 192 Governor's Main WB 2 12 16 192 Governor's WB 2 Main Governor's 12 40 480 2 12 Main Governor's WB 8 96 2 WB 96 Main Governor's 12 8 Main WB 2 12 8 96 Governor's Main Governor's WB 2 12 8 96 Main WB 2 12 8 96 Governor's 2 12 8 WB 96 Governor's Shopping Center WB 2 12 16 192 Governor's Shopping Center 2 24 288 **Shopping Center** WB 12 Governor's WB 2 12 8 Governor's **Shopping Center** 96 2 12 WB 8 96 **Shopping Center** Kostner 2 **Shopping Center** Kostner WB 12 8 96 WB 2 12 8 96 Shopping Center Kostner Shopping Center Kostner WB 2 12 8 96 2 Shopping Center WB 12 8 96 Kostner 2 Shopping Center Kostner WB 12 16 192 WB 2 12 16 192 Kostner Shopping Center WB 2 12 16 192 Shopping Center Kostner 2 12 Shopping Center Kostner WB 8 96 2 Shopping Center WB 12 8 96 Kostner Lindenwood WB 2 96 Kostner 12 8 WB 2 96 Kostner Lindenwood 12 8 Lindenwood Cicero WB 2 12 8 96 2 WB 12 8 96 Cicero Lindenwood WB 2 12 8 96 Lindenwood Cicero WB 2 12 8 96 Lindenwood Cicero Lindenwood Cicero WB 2 12 8 96

| HE WIDTH (FT) 12 12 12 12 12 12 12 12 12 12 12 12 12 | LENGTH (FT) 8 8 8 16 16 16 48 40 16 16 16 8 16 16 8 16 16 8 8 8 8 8 8 8 | AREA (SQ FT) 96 96 192 192 576 480 192 192 96 192 96 96 96 96 |
|---|---|--|
| 12 12 12 12 12 12 12 12 12 12 12 12 12 1 | 8 16 16 48 40 16 16 8 16 16 8 8 8 8 8 | 96 192 192 576 480 192 192 96 192 96 96 96 96 96 96 |
| 12 12 12 12 12 12 12 12 12 12 12 12 12 1 | 16 16 48 40 16 16 8 16 16 8 8 8 8 8 | 192 192 576 480 192 192 96 192 96 96 96 96 96 |
| 12 12 12 12 12 12 12 12 12 12 12 12 12 1 | 16 48 40 16 16 8 16 16 8 8 8 8 8 8 | 192 576 480 192 192 96 192 192 96 96 96 96 96 96 |
| 12 12 12 12 12 12 12 12 12 12 12 12 12 1 | 48 40 16 16 8 16 16 8 8 8 8 8 8 8 | 576 480 192 192 96 192 192 96 96 96 96 192 |
| 12 12 12 12 12 12 12 12 12 12 12 12 12 | 40 16 16 8 16 16 8 8 8 8 8 8 8 | 480 192 192 96 192 192 96 96 96 96 192 |
| 12 12 12 12 12 12 12 12 12 12 12 12 12 | 16 16 8 16 16 8 8 8 8 16 8 | 480 192 192 96 192 192 96 96 96 96 192 |
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| 12 12 12 12 12 12 12 12 12 12 12 | 16 8 16 16 8 8 8 8 16 8 | 192 96 192 192 96 96 96 96 96 |
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| 12 12 12 12 12 12 12 12 12 | 16 16 8 8 8 8 16 8 | 192 192 96 96 96 96 192 |
| 12 12 12 12 12 12 12 12 | 16 8 8 8 8 16 8 | 192 96 96 96 96 192 96 |
| 12 12 12 12 12 12 12 | 8 8 8 8 16 8 | 96 96 96 96 192 96 |
| 12 12 12 12 12 | 8 8 8 16 8 | 96 96 96 192 96 |
| 12 12 12 12 | 8 8 16 8 | 96 96 192 96 |
| 12 12 12 | 8 16 8 8 | 96 192 96 |
| 12 12 | 16 8 8 | 192 96 |
| 12 | 8 8 | 96 |
| | 8 | |
| | | |
| 12 | 40 | 96 |
| 12 | 16 | 192 |
| 12 | 72 | 864 |
| 12 | 8 | 96 |
| 12 | 16 | 192 |
| 12 | 8 | 96 |
| 12 | 16 | 192 |
| 12 | 8 | 96 |
| 12 | 8 | 96 |
| 12 | 16 | 192 |
| 12 | 16 | 192 |
| 12 | 16 | 192 |
| 12 | 8 | 96 |
| 12 | 16 | |
| | 16 | 192 |
| 12 | | 192 |
| 12 | 8 | 96 |
| 12 | 8 | 96 |
| 12 | 8 | 96 |
| 12 | 8 | 96 |
| 12 | 8 | 96 |
| 12 | 8 | 96 |
| 12 | 8 | 96 |
| 12 | 8 | 96 |
| 12 | 8 | 96 |
| 12 | 8 | 96 |
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| 12 12 | 8 | 96 |
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| Default | PLOT DATE = 6/13/2014 | DATE - | REVISED - |

SQFT

CLASS B PATCHES

| CROSS | | 1 | | WIDTH | LENGTH | TYPE II | TYPE III | TYPE I |
|-------------------|-----------------|-----------|------|-------|--------|-----------------|-----------------|----------------|
| FROM | то | DIRECTION | LANE | (FT) | (FT) | AREA (SQ YD) | AREA (SQ YD) | AREA (SQ YE |
| Resurfacing Limit | Olympian Way | WB | 3 | 12 | 6 | 8.00 | | |
| Resurfacing Limit | Olympian Way | WB | 3 | 12 | 15 | | 20.00 | |
| Resurfacing Limit | Olympian Way | WB | 3 | 12 | 10 | 13.33 | | |
| Resurfacing Limit | Olympian Way | WB | 3 | 12 | 6 | 8.00 | | |
| Olympian Way | Main | WB | 3 | 12 | 6 | 8.00 | | |
| Olympian Way | Main | WB | 3 | 12 | 6 | 8.00 | | |
| Olympian Way | Main | WB | 3 | 12 | 6 | 8.00 | | |
| Olympian Way | Main | WB | 3 | 12 | 10 | 13.33 | | |
| Olympian Way | Main | WB | 3 | 12 | 6 | 8.00 | | |
| Olympian Way | Main | WB | 3 | 12 | 6 | 8.00 | | |
| Olympian Way | Main | WB | 3 | 12 | 6 | 8.00 | | |
| Main | Governor's | WB | 3 | 12 | 15 | | 20.00 | |
| Main | Governor's | WB | 3 | 12 | 6 | 8.00 | | |
| Main | Governor's | WB | 3 | 12 | 6 | 8.00 | | |
| Main | Governor's | WB | 3 | 12 | 6 | 8.00 | | |
| Main | Governor's | WB | 3 | 12 | 10 | 13.33 | | |
| Main | Governor's | WB | 3 | 12 | 6 | 8.00 | | |
| Main | Governor's | WB | 3 | 12 | 6 | 8.00 | | |
| Main | Governor's | WB | 3 | 12 | 6 | 8.00 | | |
| Governor's | Shopping Center | WB | 3 | 12 | 35 | | | 46.67 |
| Governor's | Shopping Center | WB | 3 | 12 | 80 | | | 106.6 |
| Shopping Center | Kostner | WB | 3 | 12 | 30 | | | 40.00 |
| Shopping Center | Kostner | WB | 3 | 12 | 6 | 8.00 | | |
| Shopping Center | Kostner | WB | 3 | 12 | 10 | 13.33 | | |
| Shopping Center | Kostner | WB | 3 | 12 | 6 | 8.00 | | |
| Shopping Center | Kostner | WB | 3 | 12 | 35 | | | 46.67 |
| Shopping Center | Kostner | WB | 3 | 12 | 15 | | 20.00 | |
| Shopping Center | Kostner | WB | 3 | 12 | 6 | 8.00 | | |
| Kostner | Lindenwood | WB | 3 | 12 | 6 | 8.00 | | |
| Kostner | Lindenwood | WB | 3 | 12 | 6 | 8.00 | | |
| Kostner | Lindenwood | WB | 3 | 12 | 15 | | 20.00 | |
| Lindenwood | Cicero | WB | 3 | 12 | 6 | 8.00 | | |
| Lindenwood | Cicero | WB | 3 | 12 | 6 | 8.00 | | |
| Lindenwood | Cicero | WB | 3 | 12 | 6 | 8.00 | | |
| Lindenwood | Cicero | WB | 3 | 12 | 6 | 8.00 | | |
| Lindenwood | Cicero | WB | 3 | 12 | 10 | 13.33 | | |
| Lindenwood | Cicero | WB | 3 | 12 | 6 | 8.00 | | |
| Cicero | Lindenwood | EB | 3 | 12 | 6 | 8.00 | | |
| Cicero | Lindenwood | EB | 3 | 12 | 6 | 8.00 | | |
| Cicero | Lindenwood | EB | 3 | 12 | 6 | 8.00 | | |
| Cicero | Lindenwood | EB | 3 | 12 | 6 | 8.00 | | |
| Cicero | Lindenwood | EB | 3 | 12 | 20 | | | 26.67 |
| Cicero | Lindenwood | EB | 3 | 12 | 6 | 8.00 | | |
| Cicero | Lindenwood | EB | 3 | 12 | 15 | 0.00 | 20.00 | |
| Lindenwood | Kostner | EB | 3 | 12 | 6 | 8.00 | | |
| Lindenwood | Kostner | EB | 3 | 12 | 10 | 13.33 | | |
| Lindenwood | Kostner | EB | 3 | 12 | 6 | 8.00 | | |
| Lindenwood | Kostner | EB | 3 | 12 | 6 | 8.00 | | |

CLASS B PATCHES (CONTINUED)

| CROSS | DIKEEI | | | | | TYPE II | TYPE III | TYPE IV |
|-------------------|-------------------|-----------|--------|------|----------------|-----------------|-----------------|----------------|
| FROM | то | DIRECTION | LANE | (FT) | LENGTH (FT) | AREA (SQ YD) | AREA (SQ YD) | AREA (SQ YD |
| Lindenwood | Kostner | EB | 3 | 12 | 6 | 8.00 | | |
| Lindenwood | Kostner | EB | 3 | 12 | 6 | 8.00 | | |
| Lindenwood | Kostner | EB | 3 | 12 | 8 | 10.67 | | |
| Lindenwood | Kostner | EB | 3 | 12 | 6 | 8.00 | | |
| Kostner | Shopping Center | EB | 3 | 12 | 20 | | | 26.67 |
| Kostner | Shopping Center | EB | 3 | 12 | 6 | 8.00 | | |
| Kostner | Shopping Center | EB | 3 | 12 | 125 | | | 166.67 |
| Kostner | Shopping Center | EB | 3 | 12 | 10 | 13.33 | | |
| Kostner | Shopping Center | EB | 3 | 12 | 6 | 8.00 | | |
| Kostner | Shopping Center | EB | 3 | 12 | 6 | 8.00 | | |
| Kostner | Shopping Center | EB | 3 | 12 | 10 | 13.33 | | |
| Shopping Center | Governor's | EB | 3 | 12 | 10 | 13.33 | | |
| | Governor's | | 3 | | | 13.33 | | 26.67 |
| Shopping Center | | EB EB | 3 | 12 | 20 6 | 0.00 | | 26.67 |
| Shopping Center | Governor's | | | 12 | | 8.00 | | |
| At Governor's | | EB | RTL | 12 | 10 | 13.33 | | |
| At Governor's | | EB | RTL | 12 | 6 | 8.00 | | |
| At Governor's | | EB | RTL | 12 | 15 | | 20.00 | |
| At Governor's | | EB | RTL | 12 | 6 | 8.00 | | |
| At Governor's | | EB | RTL | 12 | 10 | 13.33 | | |
| Governor's | Main | EB | 3 | 12 | 10 | 13.33 | | |
| Governor's | Main | EB | 3 | 12 | 15 | | 20.00 | |
| Governor's | Main | EB | 3 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 3 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 3 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 3 | 12 | 6 | 8.00 | | |
| Main | Olympian Way | EB | 3 | 12 | 10 | 13.33 | | |
| Main | Olympian Way | EB | 3 | 12 | 6 | 8.00 | | |
| Main | Olympian Way | EB | 3 | 12 | 20 | 0.00 | | 26.67 |
| Main | Olympian Way | EB | 3 | 12 | 15 | | 20.00 | 20.01 |
| Olympian Way | Resurfacing Limit | EB | 3 | 12 | 6 | 8.00 | 20.00 | |
| Olympian Way | Resurfacing Limit | EB | 3 | 12 | 6 | 8.00 | | |
| Olympian Way | Resurfacing Limit | EB | 3 | 12 | 45 | 0.00 | | 60.00 |
| Olympian Way | Resurfacing Limit | EB | 3 | 12 | 30 | | | 40.00 |
| | | EB | | 12 | | | | |
| Olympian Way | Resurfacing Limit | | 3 1 | 12 | 25 10 | 40.00 | | 33.33 |
| Resurfacing Limit | Olympian Way | WB | • | | | 13.33 | | |
| Resurfacing Limit | Olympian Way | WB | 1 | 12 | 6 | 8.00 | | |
| Resurfacing Limit | Olympian Way | WB | 1 | 12 | 10 | 13.33 | | |
| Olympian Way | Main | WB | 1 | 12 | 6 | 8.00 | | |
| Olympian Way | Main | WB | 1 | 12 | 8 | 10.67 | | |
| Olympian Way | Main | WB | 1 | 12 | 8 | 10.67 | | |
| Olympian Way | Main | WB | 1 | 12 | 6 | 8.00 | | |
| Olympian Way | Main | WB | 1 | 12 | 6 | 8.00 | | |
| Main | Governor's | WB | 1 | 12 | 6 | 8.00 | | |
| Main | Governor's | WB | 1 | 12 | 6 | 8.00 | | |
| Main | Governor's | WB | 1 | 12 | 20 | | | 26.67 |
| Main | Governor's | WB | 1 | 12 | 6 | 8.00 | | |
| Main | Governor's | WB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Shopping Center | WB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Shopping Center | WB | 1 | 12 | 6 | 8.00 | | |

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| RTE. 3 | 0 (LINCOLN | l HW | Y.) (CICERO | AVE. | TO WESTE | RN AVE.) | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------|------------|------|-------------|---------|----------|----------|---------------|---------|----------|-----------------|--------------|
| | CCHEDIII | F OF | QUANTITI | FC /DAT | LCHING/ | • | 353 | 23R-RS | COOK | 66 | 12 |
| | | | | • | onina, | | | | CONTRACT | NO. 6 | 50L94 |
| | CUEET | ΛE | CUEETC | CTA | т. | O CTA | | | | | |

CLASS B PATCHES (CONTINUED)

| CK033 | STREET | | | \\ | LENGT | TYPE II | TYPE III | TYPE I |
|------------------|--------------------------|-----------|---------------|---------------|----------------|-----------------|-----------------|----------------|
| FROM | то | DIRECTION | LANE | WIDTH (FT) | LENGTH (FT) | AREA (SQ YD) | AREA (SQ YD) | AREA (SQ YD |
| Governor's | Shopping Center | WB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Shopping Center | WB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Shopping Center | WB | 1 | 12 | 6 | 8.00 | | |
| Shopping Center | Kostner | WB | 1 | 12 | 6 | 8.00 | | |
| Shopping Center | Kostner | WB | 1 | 12 | 10 | 13.33 | | |
| Shopping Center | Kostner | WB | 1 | 12 | 6 | 8.00 | | |
| Shopping Center | Kostner | WB | 1 | 12 | 6 | 8.00 | | |
| Shopping Center | Kostner | WB | 1 | 12 | 6 | 8.00 | | |
| Shopping Center | Kostner | WB | 1 | 12 | 12 | | 16.00 | |
| Shopping Center | Kostner | WB | 1 | 12 | 6 | 8.00 | | |
| Shopping Center | Kostner | WB | 1 | 12 | 6 | 8.00 | | |
| Shopping Center | Kostner | WB | 1 | 12 | 10 | 13.33 | | |
| Shopping Center | Kostner | WB | 1 | 12 | 15 | | 20.00 | |
| Shopping Center | Kostner | WB | 1 | 12 | 20 | | | 26.67 |
| Shopping Center | Kostner | WB | <u>·</u> 1 | 12 | 6 | 8.00 | | |
| Kostner | Lindenwood | WB | 1 | 12 | 6 | 8.00 | | |
| Kostner | Lindenwood | WB | 1 | 12 | 6 | 8.00 | | |
| Kostner | Lindenwood | WB | <u>·</u> 1 | 12 | 10 | 13.33 | | |
| Kostner | Lindenwood | WB | 1 | 12 | 6 | 8.00 | | |
| Kostner | Lindenwood | WB | <u>·</u> 1 | 12 | 15 | 0.00 | 20.00 | |
| Kostner | Lindenwood | WB | <u>·</u> 1 | 12 | 15 | | 20.00 | |
| Kostner | Lindenwood | WB | 1 | 12 | 10 | 13.33 | 20.00 | |
| Kostner | Lindenwood | WB | <u>·</u> 1 | 12 | 6 | 8.00 | | |
| Kostner | Lindenwood | WB | <u>·</u> 1 | 12 | 6 | 8.00 | | |
| Kostner | Lindenwood | WB | <u>.</u> 1 | 12 | 6 | 8.00 | | |
| Lindenwood | Cicero | WB | 1 | 12 | 6 | 8.00 | | |
| Lindenwood | Cicero | WB | 1 | 12 | 10 | 13.33 | | |
| Lindenwood | Cicero | WB | 1 | 12 | 6 | 8.00 | | |
| Lindenwood | Cicero | WB | 1 | 12 | 10 | 13.33 | | |
| Lindenwood | Cicero | WB | 1 | 12 | 6 | 8.00 | | |
| Lindenwood | Cicero | WB | 1 | 12 | 6 | 8.00 | | |
| Lindenwood | Cicero | WB | <u>'</u> 1 | 12 | 6 | | | |
| Cicero | Lindenwood | EB | 1 | 12 | 6 | 8.00 | | |
| | | EB | | 12 | | 8.00 | | |
| Cicero Cicero | Lindenwood Lindenwood | EB | 1 1 | 12 | 6 | 8.00 8.00 | | |
| Cicero | | | | | | | | |
| | Lindenwood | EB EB | 1 1 | 12 12 | 6 | 8.00 | | |
| Cicero | Lindenwood | | | | | 8.00 | | |
| Lindenwood | Kostner | EB | 11 | 12 | 6 | 8.00 | | |
| Lindenwood | Kostner | EB | 1 1 | 12 | 6 | 8.00 | | |
| Lindenwood | Kostner | EB | 11 | 12 | 6 | 8.00 | | |
| Lindenwood | Kostner | EB | 11 | 12 | 10 | 13.33 | | 00.00 |
| Kostner | Shopping Center | EB | 11 | 12 | 70 | | | 93.33 |
| Kostner | Shopping Center | EB | 1 | 12 | 20 | 0.55 | | 26.67 |
| Kostner | Shopping Center | EB | 1 | 12 | 6 | 8.00 | | |
| Kostner | Shopping Center | EB | 1 | 12 | 6 | 8.00 | | |
| Kostner | Shopping Center | EB | 1 | 12 | 6 | 8.00 | | |
| Shopping Center | Governor's | EB | 1 | 12 | 6 | 8.00 | | |
| Shopping Center | Governor's | EB | 1 | 12 | 6 | 8.00 | | |

CLASS B PATCHES (CONTINUED)

| CROSS | STREET | | | | | TYPE II | TYPE III | TYPE IV |
|--------------------|---|-----------|---------------|---------------|----------------|-----------------|-----------------|--|
| FROM | то | DIRECTION | LANE | WIDTH (FT) | LENGTH (FT) | AREA (SQ YD) | AREA (SQ YD) | AREA (SQ YD) |
| Shopping Center | Governor's | EB | 1 | 12 | 6 | 8.00 | | |
| Shopping Center | Governor's | EB | 1 | 12 | 12 | | 16.00 | |
| Governor's | Main | EB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 1 | 12 | 12 | | 16.00 | |
| Governor's | Main | EB | 1 | 12 | 8 | 10.67 | 10.00 | |
| Governor's | Main | EB | 1 | 12 | 6 | 8.00 | | |
| Governor's | Main | EB | 1 | 12 | 8 | 10.67 | | |
| Governor's | Main | EB | 1 | 12 | 6 | 8.00 | | |
| Main | Olympian Way | EB | 1 | 12 | 6 | 8.00 | | |
| Main | Olympian Way | EB | 1 | 12 | 6 | 8.00 | | |
| Main | Olympian Way | EB | 1 | 12 | 6 | 8.00 | | |
| Main | , | EB | <u>'</u> 1 | 12 | 6 | | | |
| | Olympian Way | | | 12 | | 8.00 | | |
| Olympian Way | Resurfacing Limit | EB | 1 | | 6 | 8.00 | | |
| Olympian Way | Resurfacing Limit | EB | 1 | 12 | 6 | 8.00 | | |
| Olympian Way | Resurfacing Limit | EB | 1 | 12 | 6 | 8.00 | | |
| Olympian Way | Resurfacing Limit | EB | 1 | 12 | 6 | 8.00 | | |
| Olympian Way | Resurfacing Limit | EB | 1 | 12 | 15 | | 20.00 | |
| at Olympian Way | | WB | LTL | 12 | 6 | 8.00 | | |
| at Governor's | | WB | LTL | 12 | 6 | 8.00 | | |
| at Governor's | | WB | LTL | 12 | 6 | 8.00 | | |
| at Shopping Center | | WB | LTL | 12 | 6 | 8.00 | | |
| at Kostner | | WB | LTL | 6 | 20 | 13.33 | | |
| at Kostner | | WB | LTL | 12 | 10 | 13.33 | | |
| at Lindenwood | | WB | LTL | 12 | 6 | 8.00 | | |
| at Lindenwood | | WB | LTL | 12 | 6 | 8.00 | | |
| at Homeland | | WB | LTL | 12 | 6 | 8.00 | | |
| at Homeland | | WB | LTL | 12 | 6 | 8.00 | | |
| at Cicero | | WB | LTL | 12 | 6 | 8.00 | | |
| at Homeland | | EB | LTL | 12 | 6 | 8.00 | | |
| at Homeland | | EB | LTL | 12 | 6 | 8.00 | | |
| at Lindenwood | | EB | LTL | 12 | 6 | 8.00 | | |
| at Lindenwood | | EB | LTL | 12 | 6 | 8.00 | | |
| at Kostner | | EB | LTL | 12 | 6 | 8.00 | | |
| at Kildare | | EB | LTL | 12 | 6 | 8.00 | | |
| at Kildare | | EB | LTL | 12 | 10 | 13.33 | | |
| at Kildare | | EB | LTL | 12 | 6 | 8.00 | | |
| at Shopping Center | | EB | LTL | 12 | 6 | 8.00 | | |
| at Governor's | | EB | LTL | 12 | 10 | 13.33 | | |
| at Governor's | | EB | LTL | 12 | 6 | 8.00 | | |
| at Governor's | | EB | LTL | 12 | 6 | 8.00 | | |
| at Roseland | | EB | LTL | 12 | 6 | 8.00 | | |
| at Roseland | | EB | LTL | 12 | 6 | 8.00 | | |

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| PLOT SCALE = 100.0000 '/ in. | | CHECKED - | REVISED - | | | |
| Default | PLOT DATE = 6/13/2014 | DATE - | REVISED - | | | |

CLASS B PATCHES (CONTINUED) CROSS STREET TYPE II TYPE III TYPE IV WIDTH LENGTH DIRECTION LANE AREA **AREA** AREA TO **FROM** (FT) (FT) (SQ YD) (SQYD) (SQ YD) at Evergreen EB LTL 12 6 8.00 at Evergreen EB LTL 12 6 8.00 EΒ LTL 12 6 8.00 at Main at Olympian Way At Olympian Way EB WB LTL RTL 12 12 8.00 8.00 6 RTL 12 At Olympian Way WB 6 8.00 At Olympian Way WB RTL 12 12 16.00 Main Median 15 Governor's 12 20.00 Main Governor's Median 12 15 20.00 Shopping Center Governor's Median 12 10 13.33 35 Shopping Center Kostner Median 12 46.67 Shopping Center Median 12 20 Kostner 26.67 25 Shopping Center Kostner Median 12 33.33 12 40 Kostner Lindenwood Median 53.33 50 Kostner Lindenwood Median 12 66.67 75 Kostner Lindenwood Median 12 100.00 150 Kostner Lindenwood Median 6 100.00 100 Kostner Median 6 66.67 Lindenwood 25 12 Kostner Lindenwood Median 33.33

TYPE II TYPE III TYPE IV

SQ YD

1346.67

SQ YD

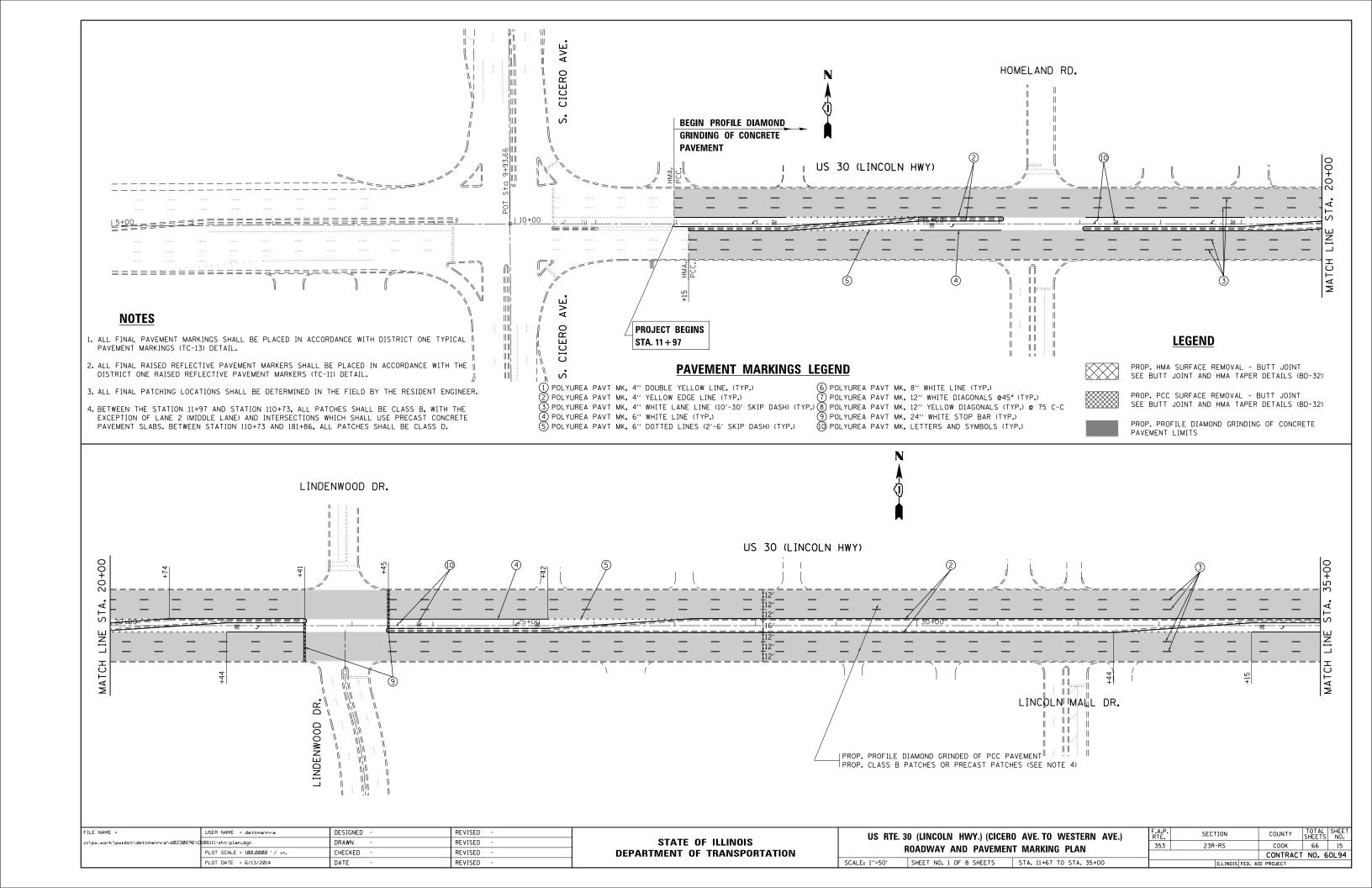
1509.33 344.00

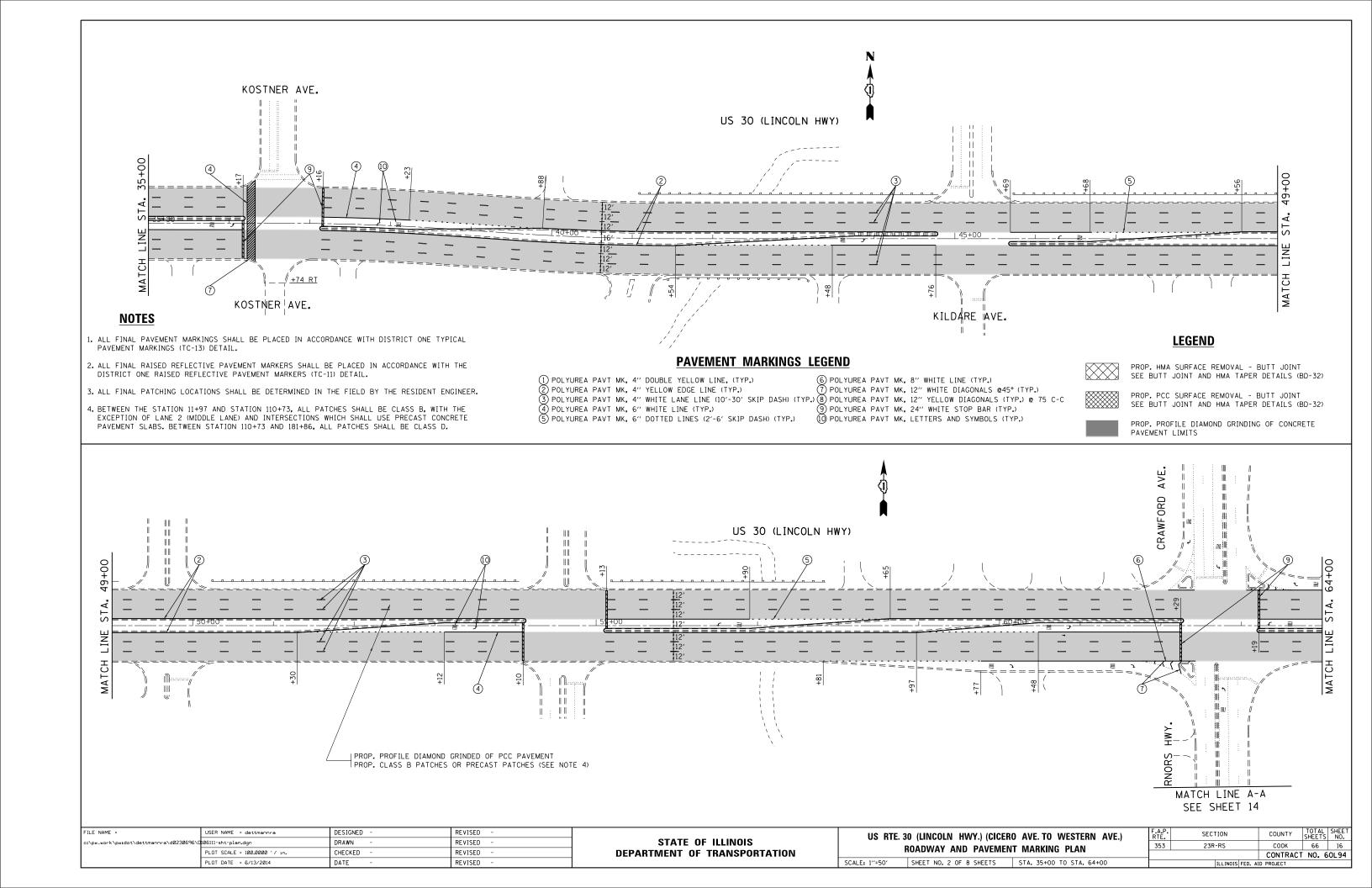
SQYD

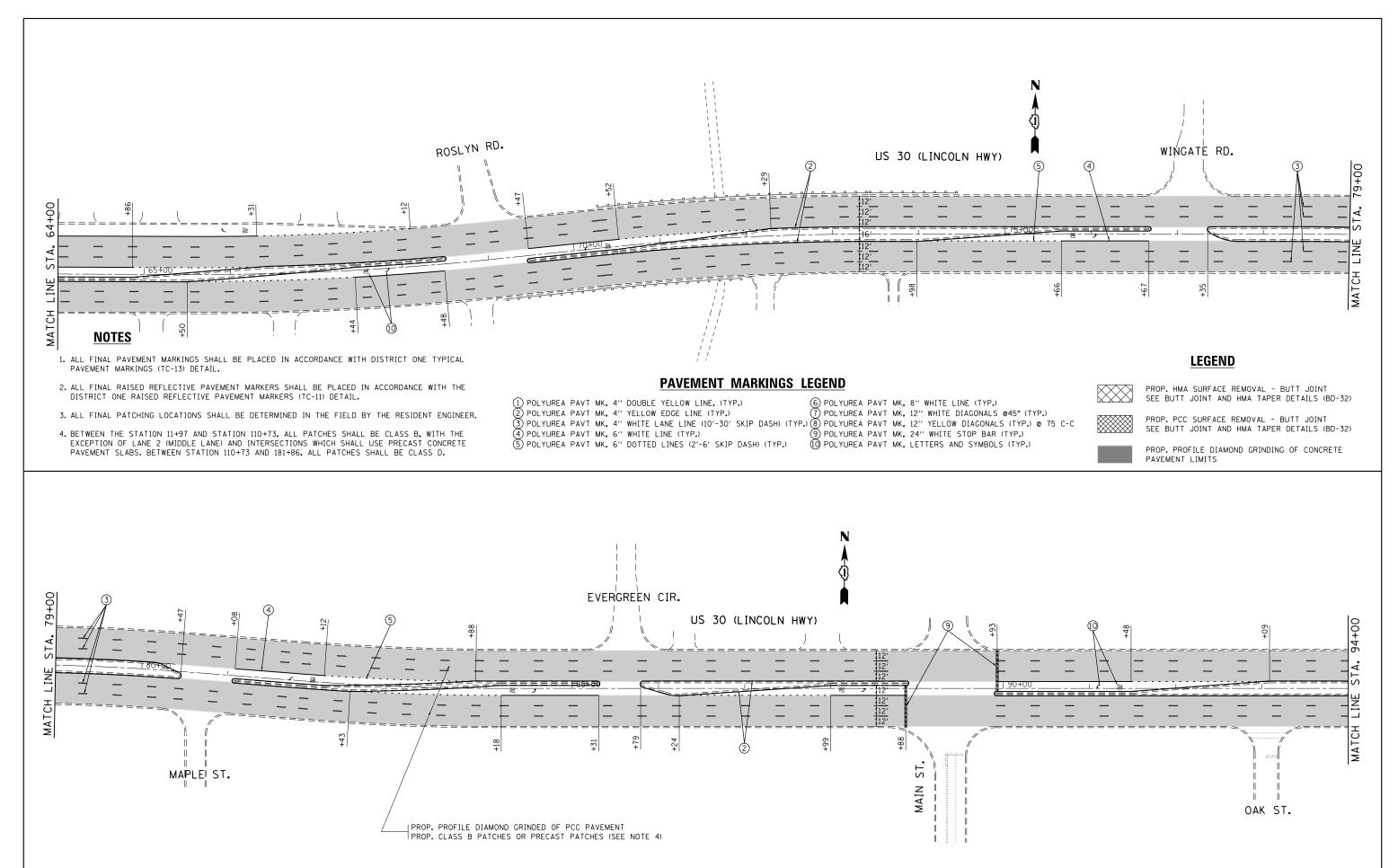
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| FILE NAME = USER NAME = dettmannra | | DESIGNED - | REVISED - |
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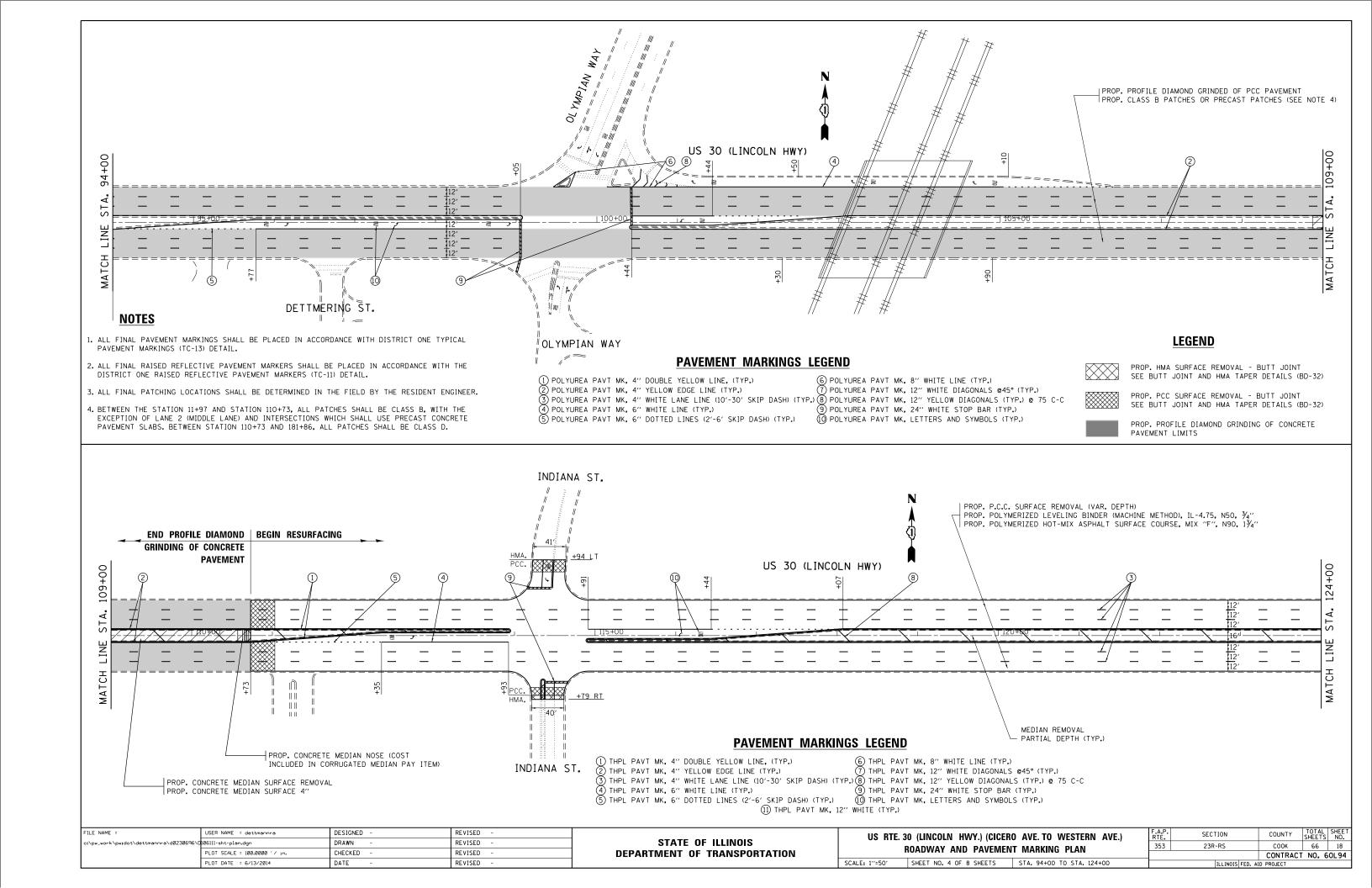
| STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | US RTE. 3 | • | • | • | AVE. TO V Es (patchi | WESTERN AVE ING) |
|---|-----------|-------|----|--------|-------------------------|---------------------|
| | SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |

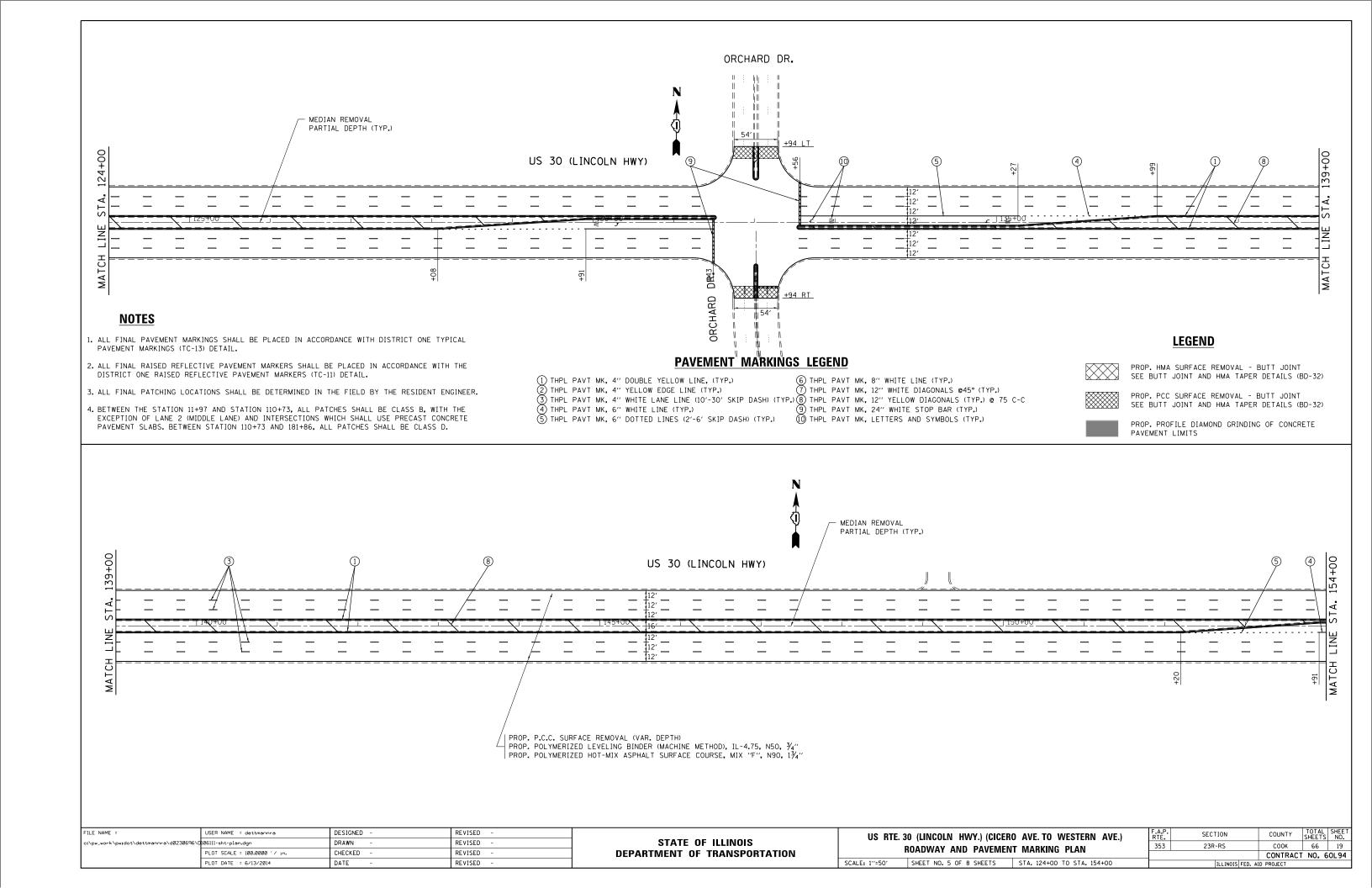


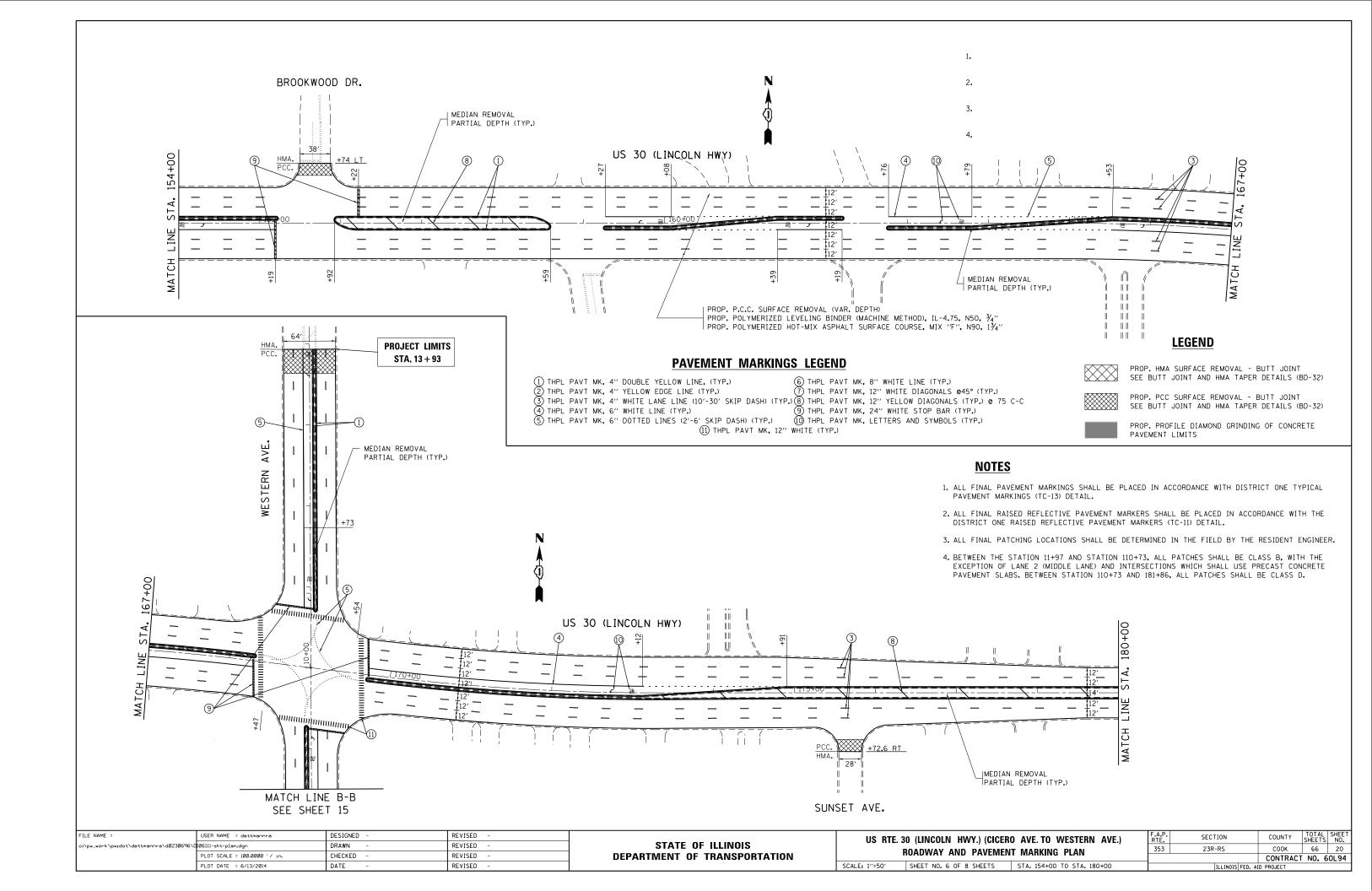


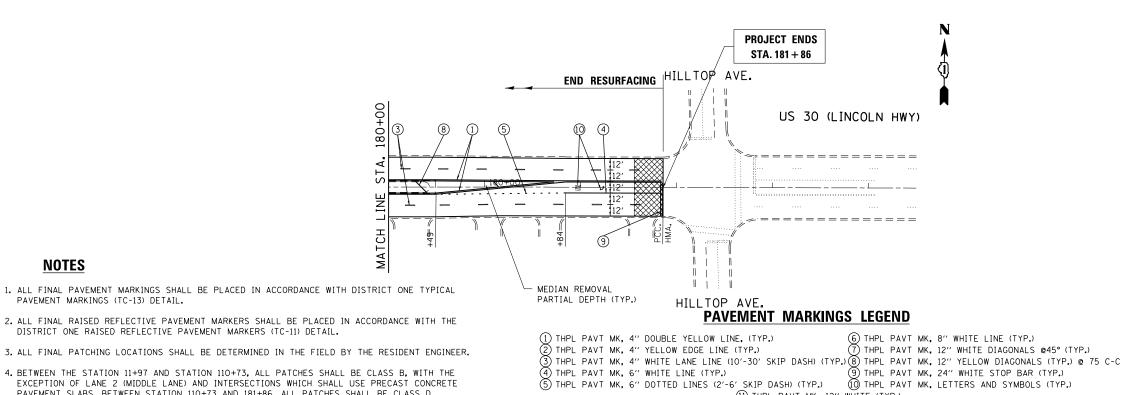


| FILE NAME = | USER NAME = dettmannra | DESIGNED - | REVISED - | | IIS RTE | US RTE. 30 (LINCOLN HWY.) (CICERO AVE. TO WESTERN AVE.) ROADWAY AND PAVEMENT MARKING PLAN | | F.A.P. | SECTION | COUNTY | TOTAL SHEET SHEETS NO. |
|---|------------------------------|------------|-----------|------------------------------|--|---|--|-------------|----------------|---------|---------------------------|
| c:\pw_work\pwidot\dettmannra\d0230696\D | 106111-sht-plan.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | 00 1111 | | | 353 | 23R-RS | соок | 66 17 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | | CONTRAC | |
| | PLOT DATE = 6/13/2014 | DATE - | REVISED - | | SCALE: 1"=50" SHEET NO. 3 OF 8 SHEETS STA. 64+00 TO STA. 94+00 | | | ILLINOIS FE | D. AID PROJECT | | |









NOTES

PAVEMENT MARKINGS (TC-13) DETAIL.

3. ALL FINAL PATCHING LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

4. BETWEEN THE STATION 11+97 AND STATION 110+73, ALL PATCHES SHALL BE CLASS B, WITH THE EXCEPTION OF LANE 2 (MIDDLE LANE) AND INTERSECTIONS WHICH SHALL USE PRECAST CONCRETE

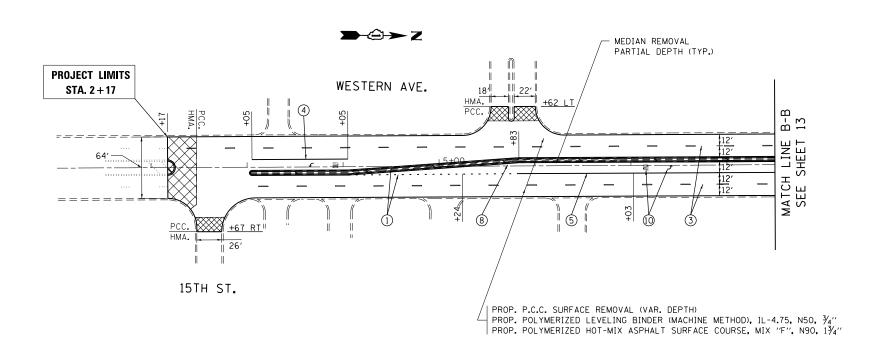
PAVEMENT SLABS. BETWEEN STATION 110+73 AND 181+86, ALL PATCHES SHALL BE CLASS D.



PROP. HMA SURFACE REMOVAL - BUTT JOINT SEE BUTT JOINT AND HMA TAPER DETAILS (BD-32)

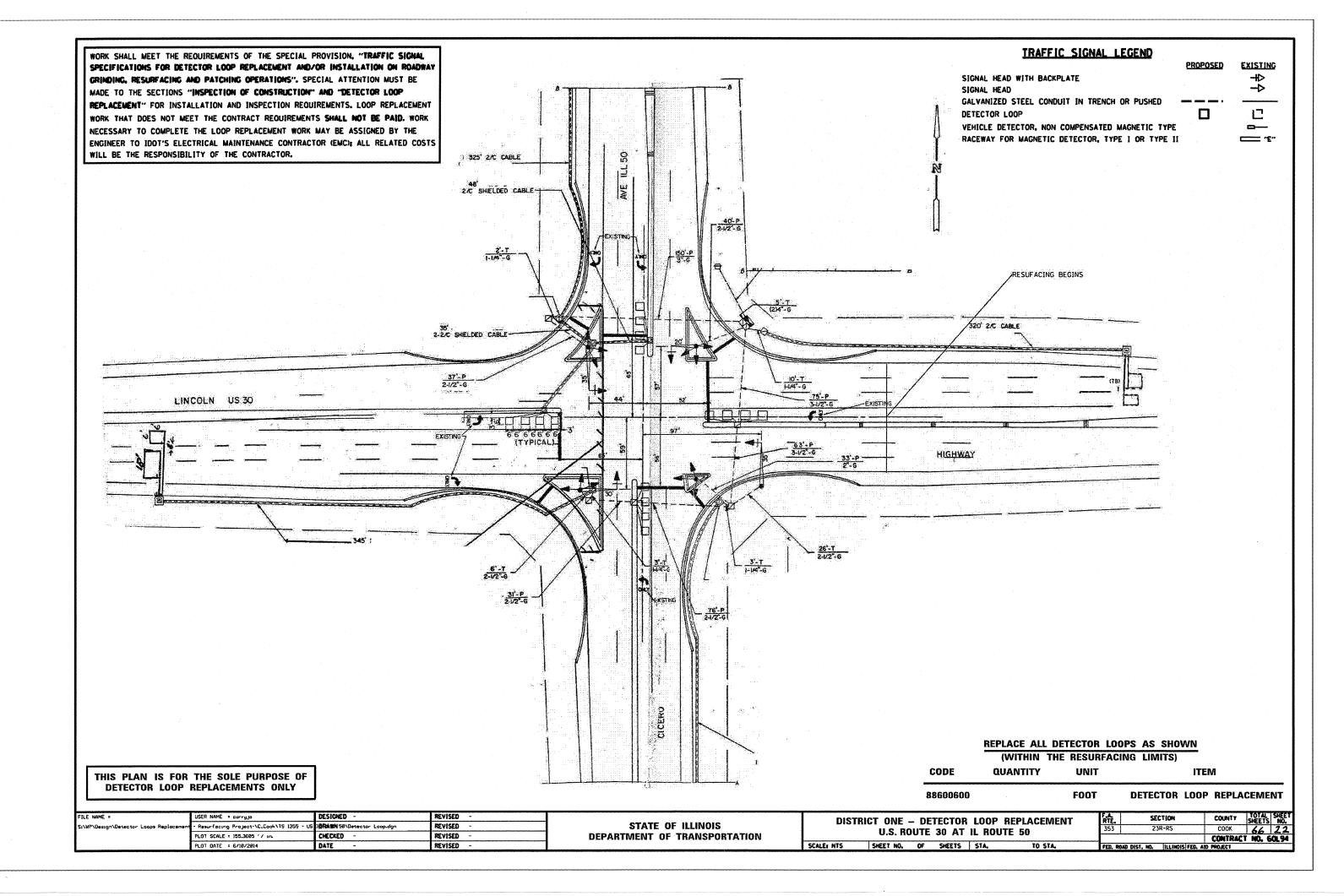
PROP. PCC SURFACE REMOVAL - BUTT JOINT SEE BUTT JOINT AND HMA TAPER DETAILS (BD-32)

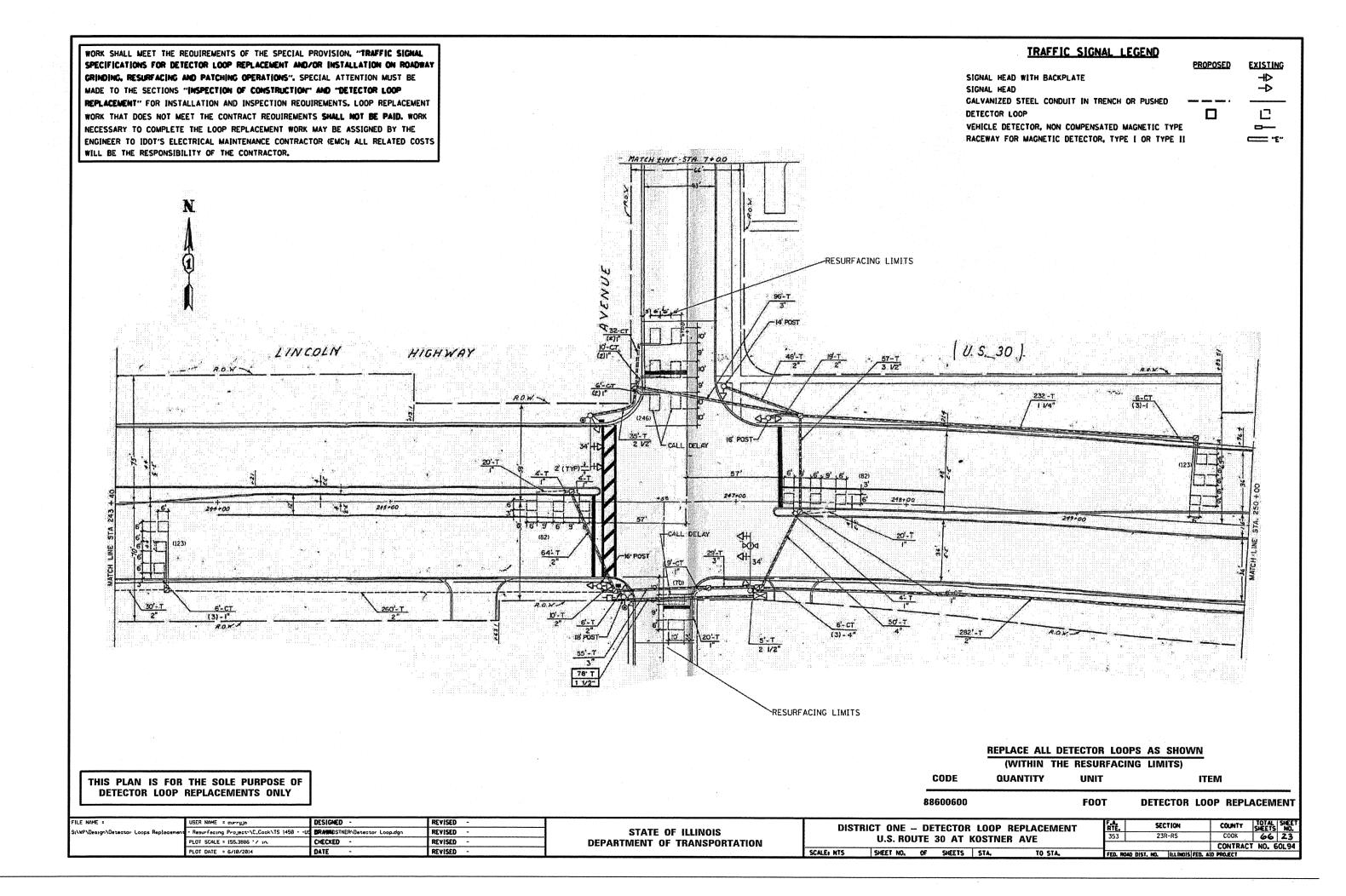
> PROP. PROFILE DIAMOND GRINDING OF CONCRETE PAVEMENT LIMITS

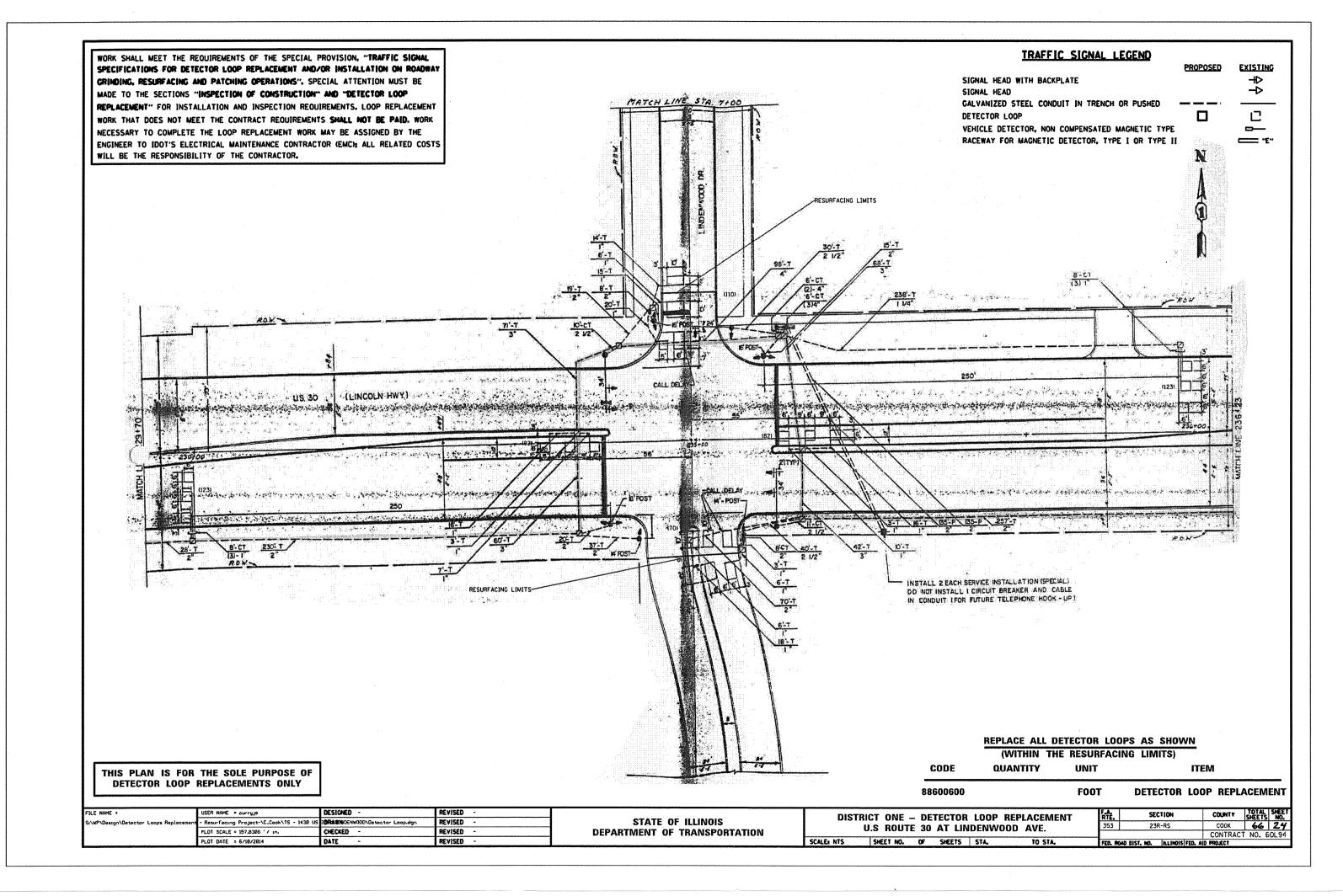


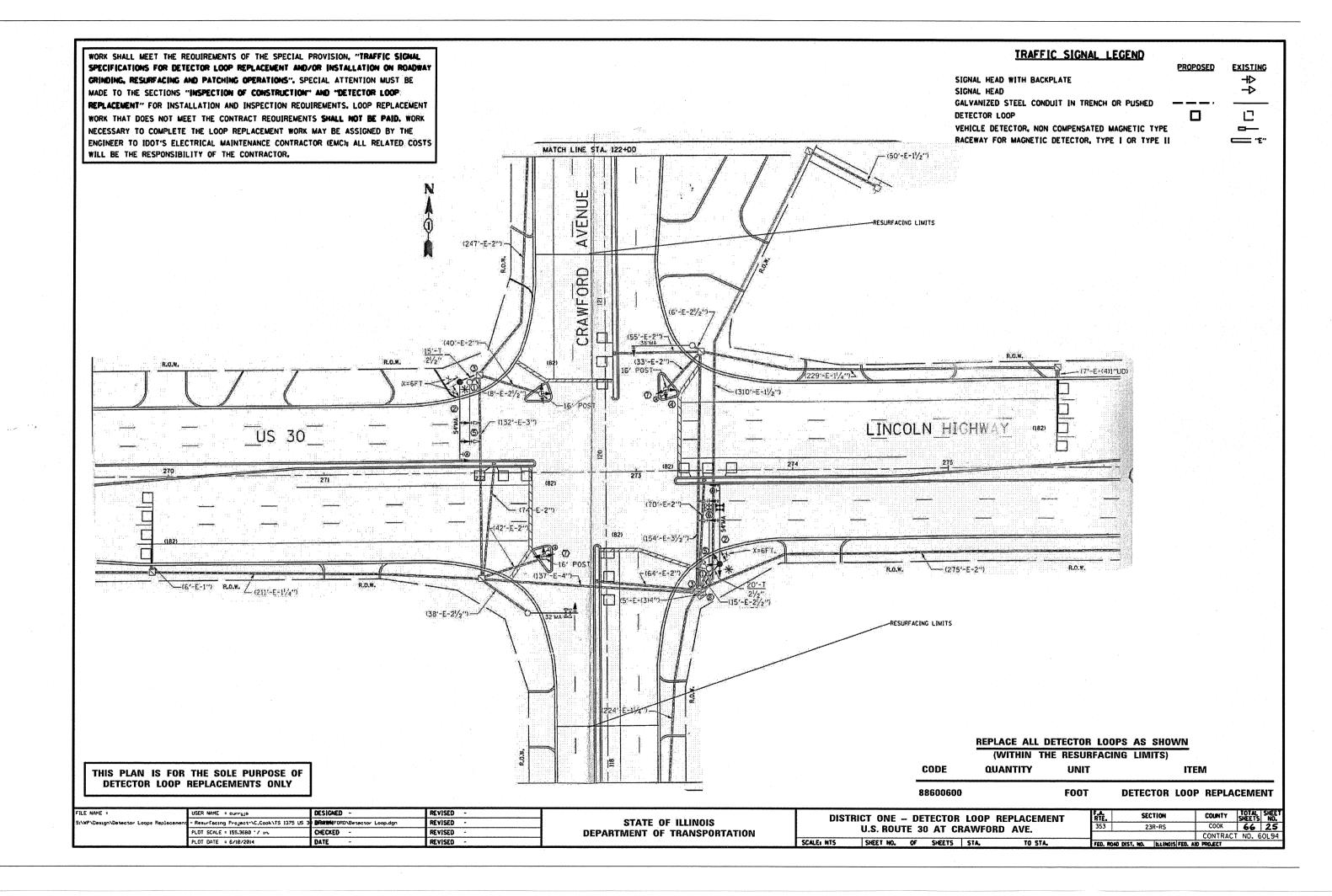
| FILE NAME : | USER NAME = dettmappra | DESIGNED - | REVISED - | | | F.A.P. | CECTION | COUNTY | TOTAL SH | EET |
|--|-------------------------------|------------|-----------|------------------------------|--|--------|-----------------|-----------|-----------|------------|
| 10230000 | DIACINI | DRAWN - | PEVISED | STATE OF ILLINOIS | US RTE. 30 (LINCOLN HWY.) (CICERO AVE. TO WESTERN AVE.) | RTE. | SECTION | COUNTY | SHEETS 1 | 0. |
| c:\pw_work\pwidot\dettmannra\du230696\ | ullebili-sht-plan.agn | DRAWN - | KENIZED - | 4 | ROADWAY AND PAVEMENT MARKING PLAN | | 23R-RS | COOK | 66 | 21 |
| | PLOT SCALE = 100.00000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | NOADVVAT AND FAVENCENT INIANNING FLAIN | | | CONTRACT | T NO. 60L | 94 |
| | PLOT DATE = 6/13/2014 | DATE - | REVISED - | | SCALE: 1"=50" SHEET NO. 7 OF 8 SHEETS STA. 180+00 TO STA. 181+86 | | ILLINOIS FED. A | D PROJECT | | |

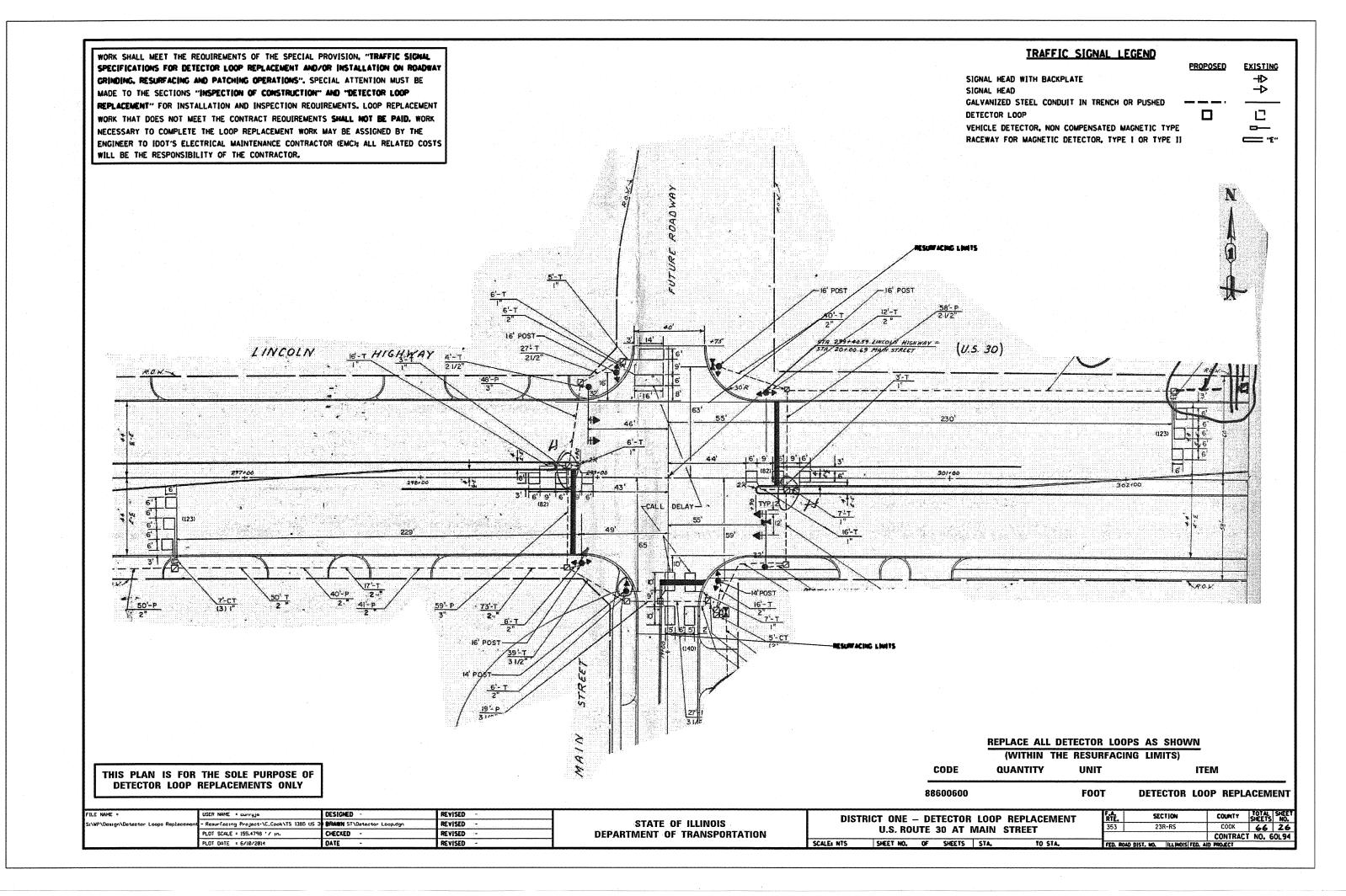
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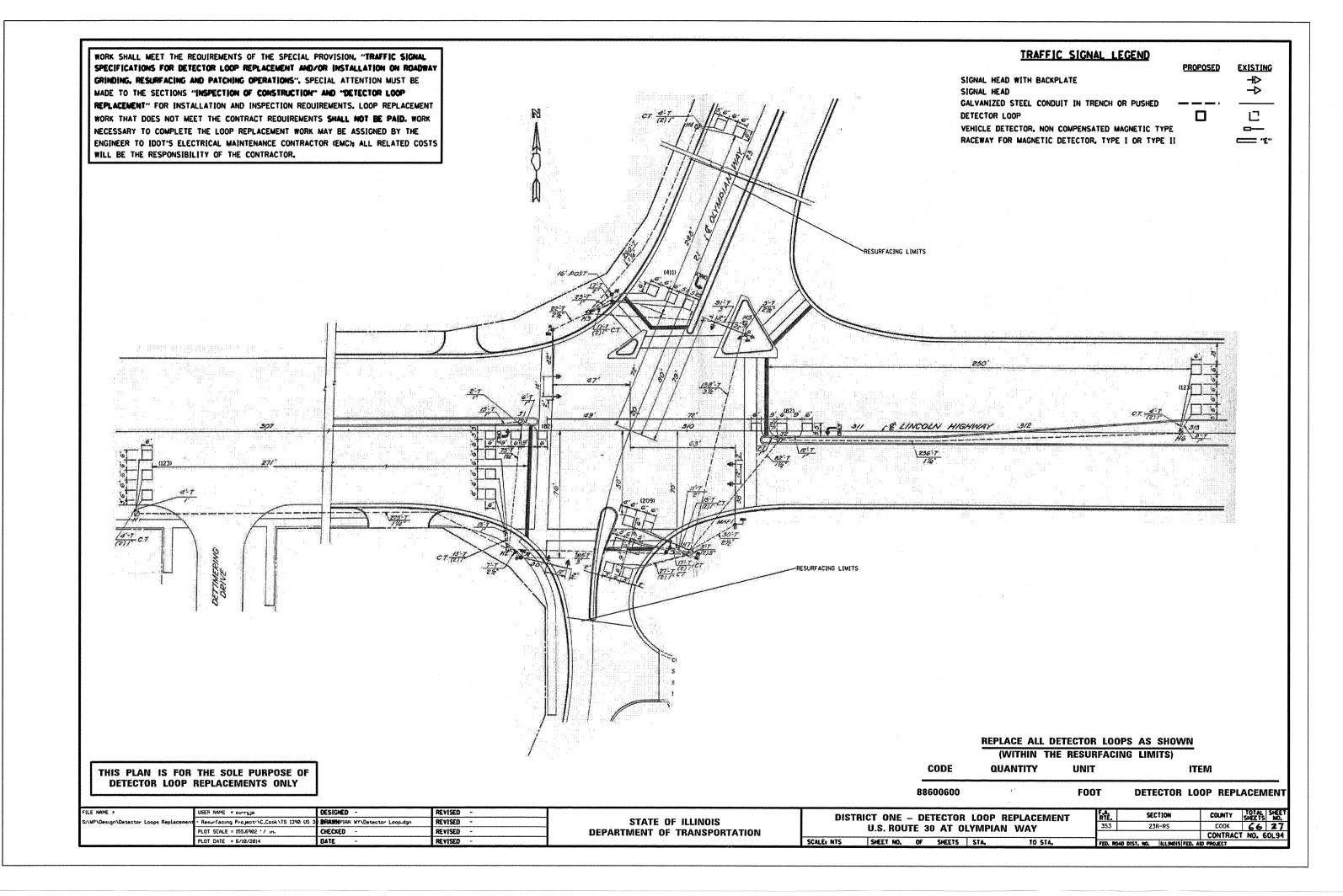


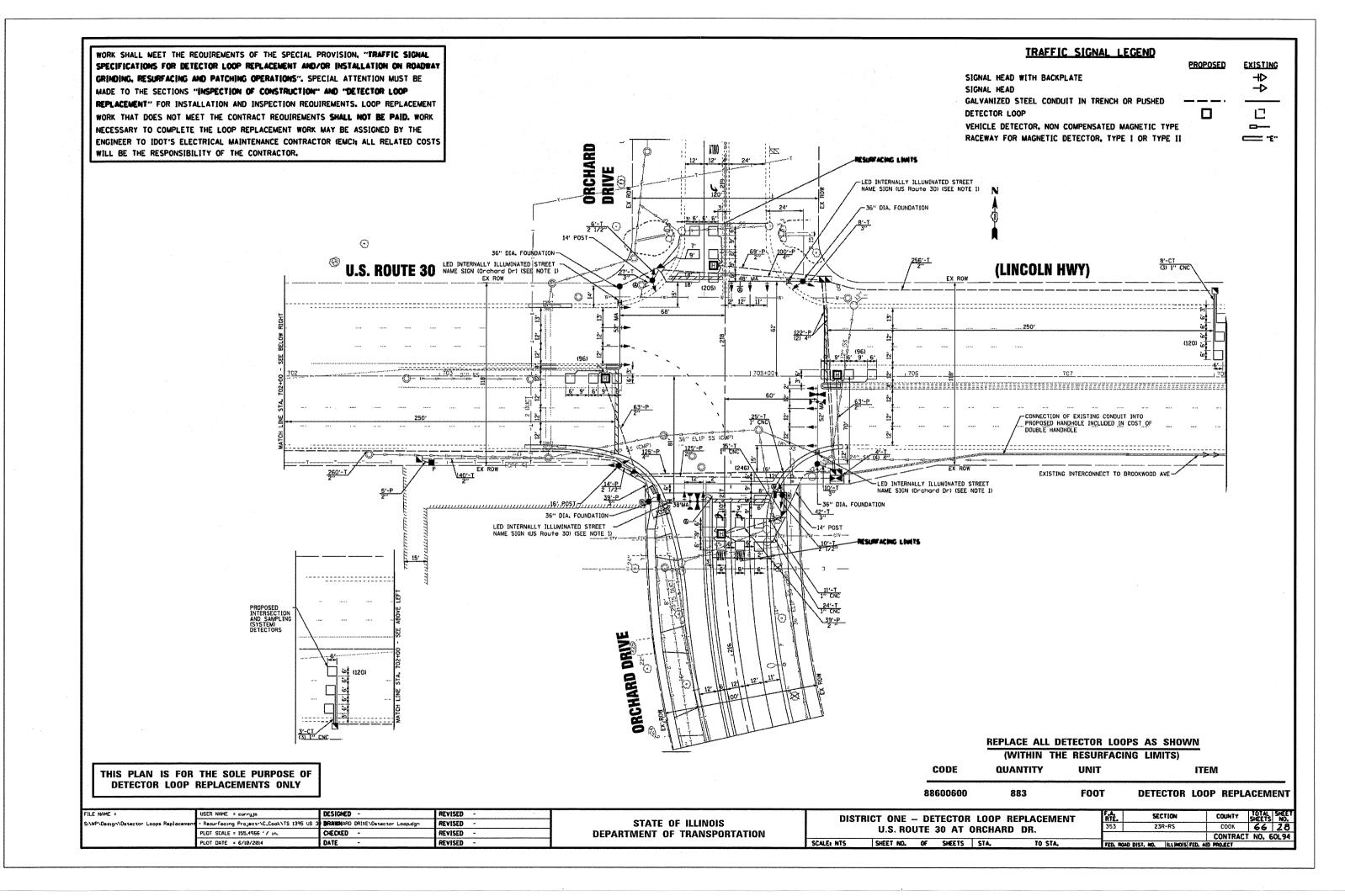


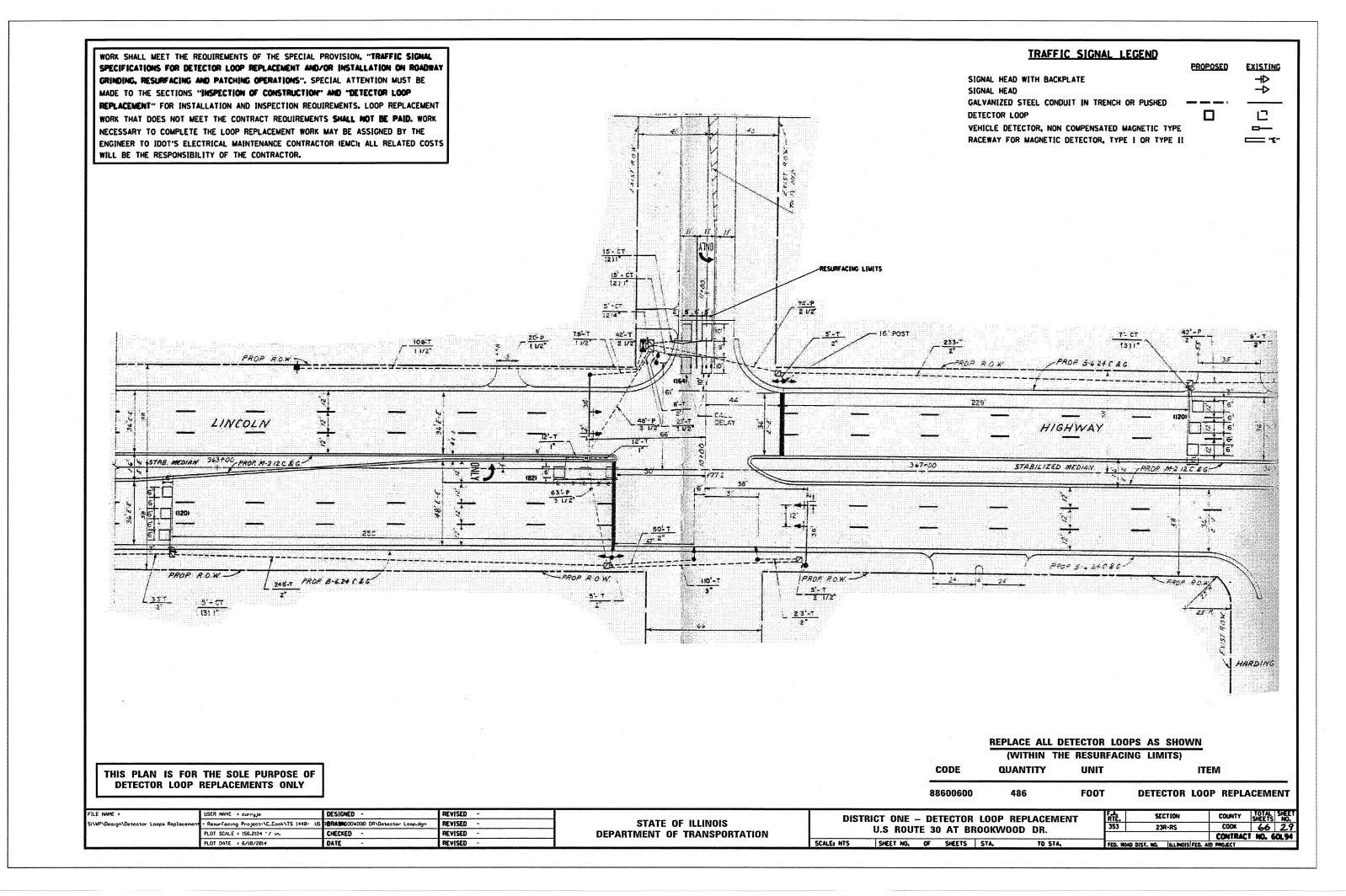


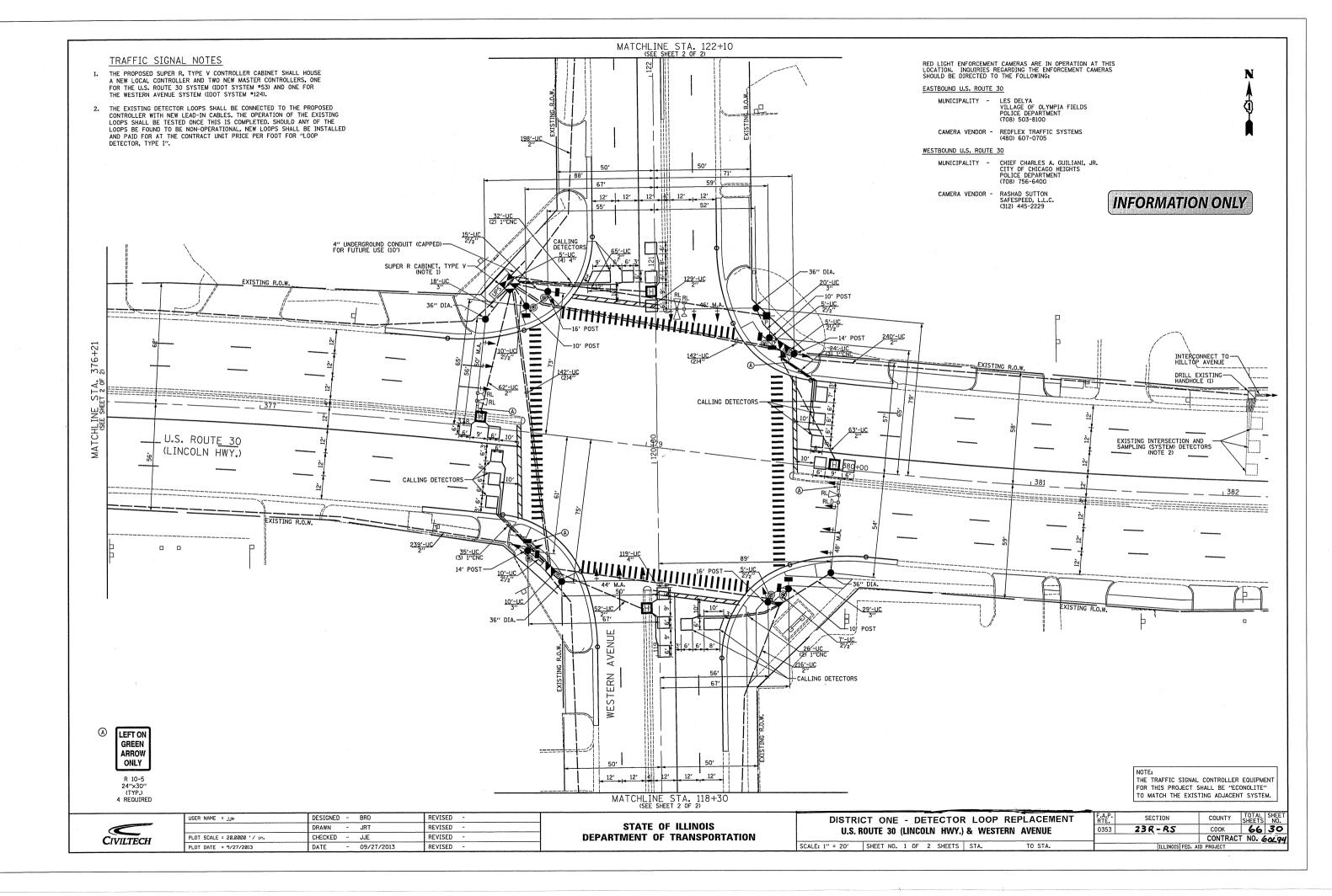




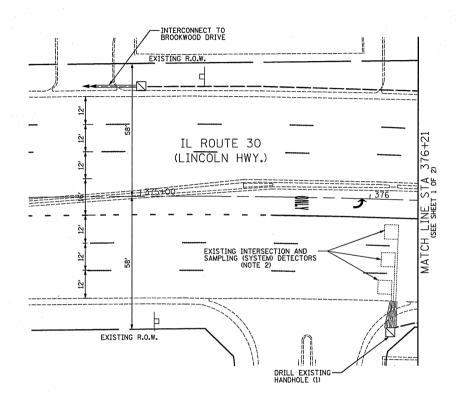


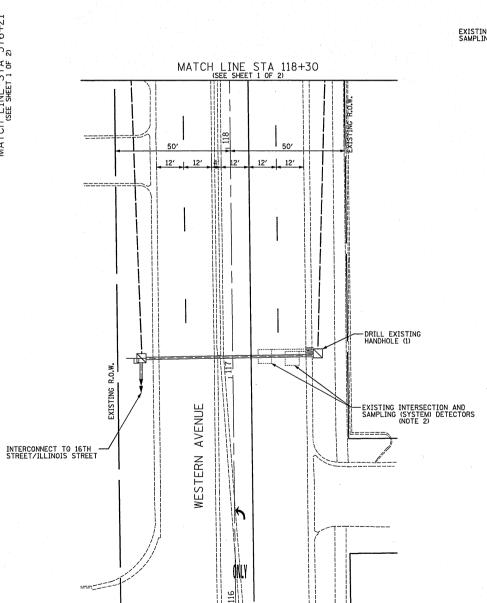


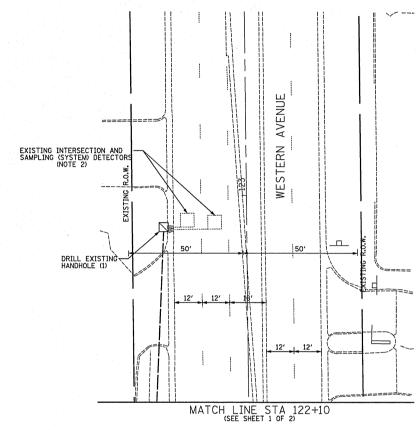




- 1. THE PROPOSED SUPER R, TYPE V CONTROLLER CABINET SHALL HOUSE A NEW LOCAL CONTROLLER AND TWO NEW MASTER CONTROLLERS, ONE FOR THE U.S. ROUTE 30 SYSTEM (IDOT SYSTEM *53) AND ONE FOR THE WESTERN AVENUE SYSTEM (IDOT SYSTEM *124).
- 2. THE EXISTING DETECTOR LOOPS SHALL BE CONNECTED TO THE PROPOSED CONTROLLER WITH INSTALLATION OF NEW LEAD-IN CABLES. THE OPERATION OF THE EXISTING LOOPS SHALL THEN BE TESTED. SHOULD ANY OF THE LOOPS BE FOUND TO BE NON-OPERATIONAL, NEW LOOPS SHALL BE INSTALLED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "LOOP DETECTOR, TYPE I".







NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



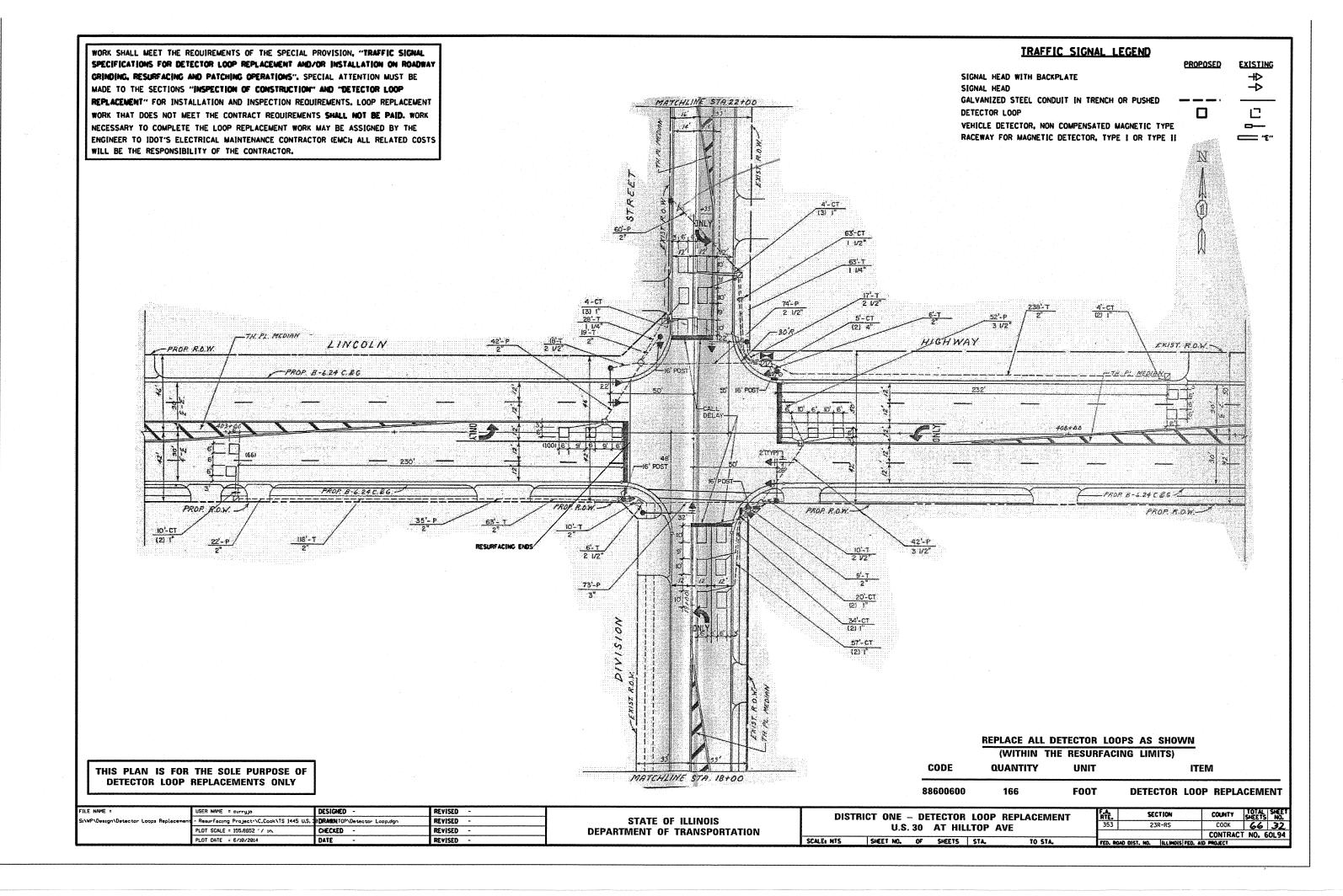
| | USER NAME = Jje | DESIGNED | - | BRD | REVISED | - |
|---|-----------------------------|----------|---|------------|---------|---|
| | | DRAWN | - | JRT | REVISED | - |
| | PLOT SCALE = 20.0000 '/ in. | CHECKED | - | JJE | REVISED | - |
| 1 | DLOT DATE = 9/27/2012 | DATE | | 09/27/2013 | DEVICED | - |

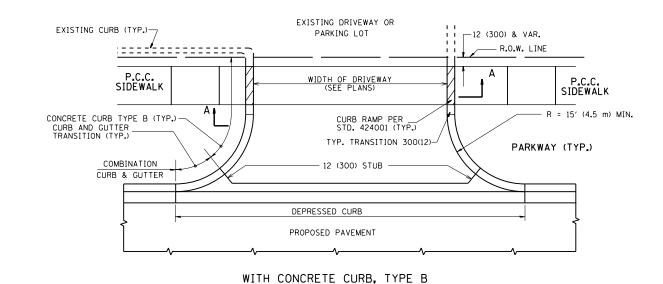
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

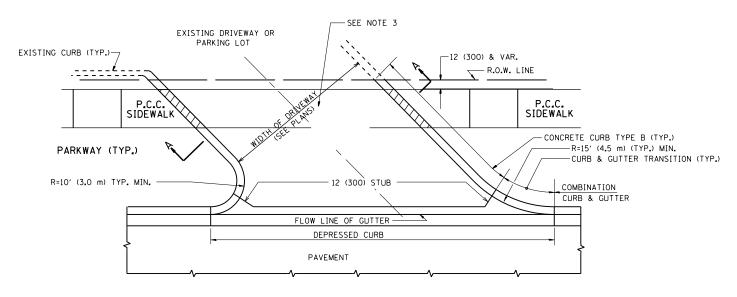
DISTRICT ONE - DETECTOR LOOP REPLACEMENT
U.S. ROUTE 30 (LINCOLN HWY.) & WESTERN AVENUE

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

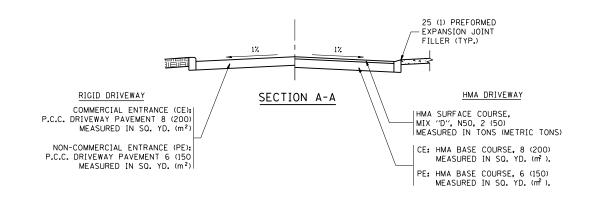
| 0353 23R-RS COOK 66 CONTRACT NO. 6 | / |
|------------------------------------|-----|
| | 019 |
| | 31 |
| F.A.P. SECTION COUNTY SHEETS | NO. |

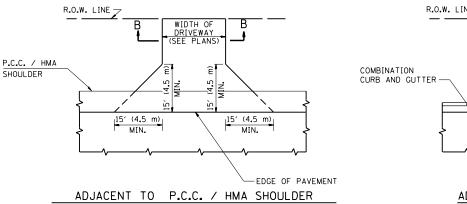


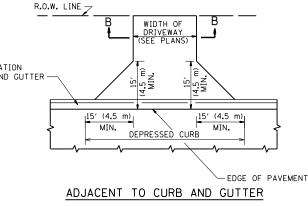


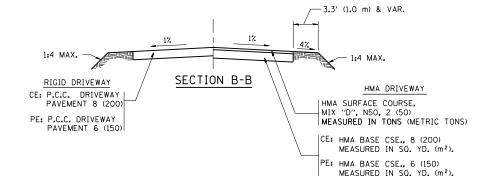


WITH CONCRETE CURB, TYPE B









RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

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

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

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

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

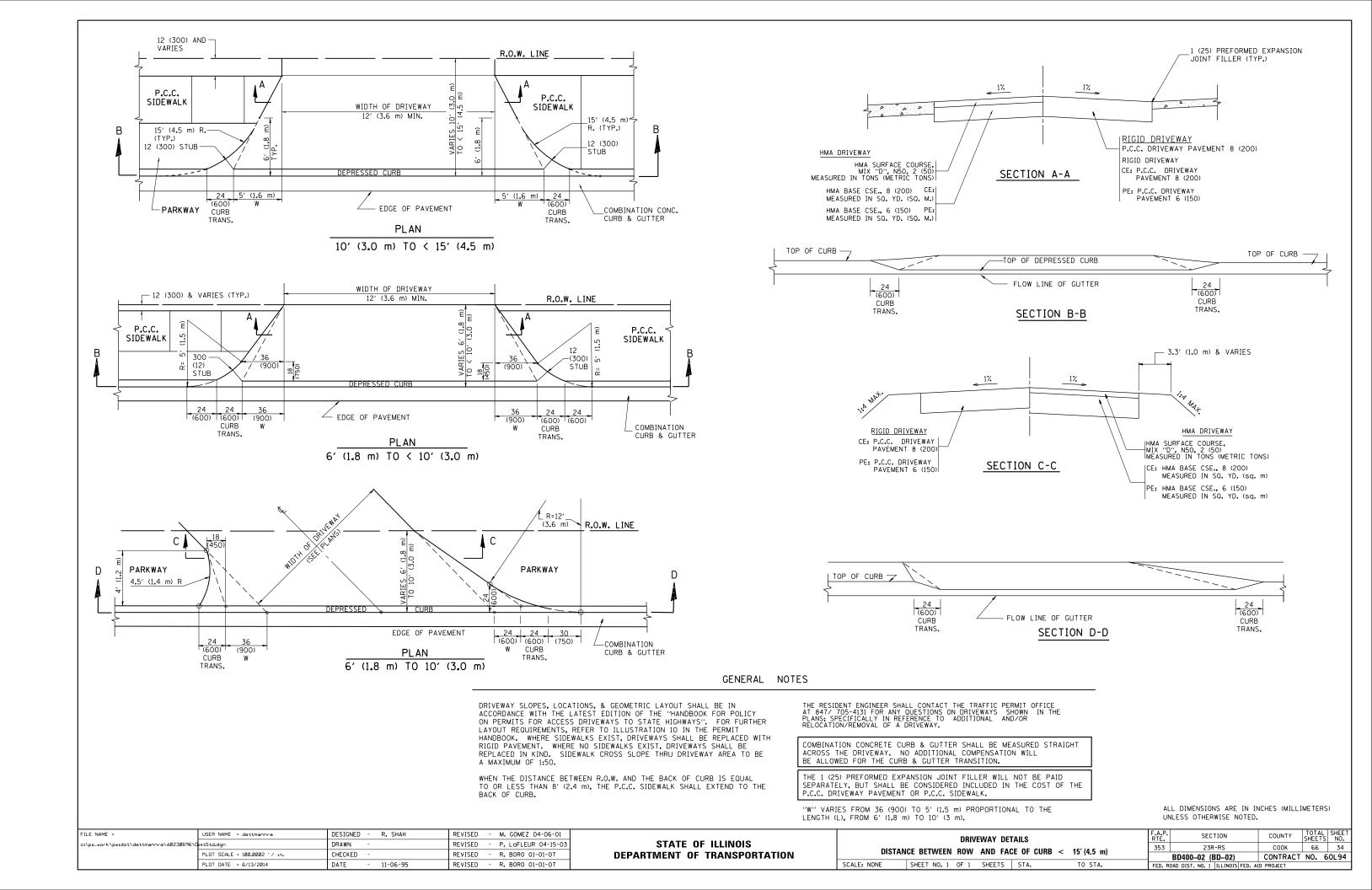
I (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

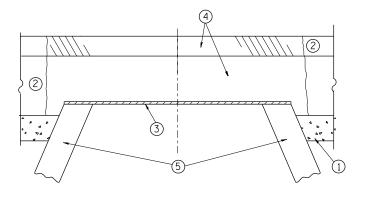
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

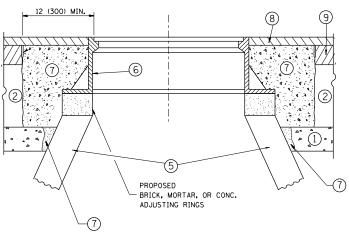
| FILE NAME = USER NAME = dettmannra [| | DESIGNED - R. SHAH | REVISED - P. LaFLUER 04-15-03 |
|---|-----------------------|--------------------|-------------------------------|
| c:\pw_work\pwidot\dettmannra\d0230696\DistStd.dgn | | DRAWN - | REVISED - R. BORO 01-01-07 |
| PLOT SCALE = 100.0002 '/ in. | | CHECKED - | REVISED - R. BORO 06-11-08 |
| | PLOT DATE = 6/13/2014 | DATE - 11-04-95 | REVISED - R. BORO 09-06-11 |

| STATE OF ILLINOIS | |
|-------------------------------------|--|
| DEPARTMENT OF TRANSPORTATION | |

| DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|----------------|----------------------------------|-----------|-----------------|--------------|
| AND FACE OF CURB & EDGE OF SHOULDER > = 15' (4.5 m) | 353 | 23R-RS | COOK | 66 | 33 |
| , , | | BD0156-07 (BD-01) | CONTRACT | NO. | 60L94 |
| SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. R | OAD DIST, NO. 1 ILLINOIS FED. AL | D PROJECT | | |







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

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

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

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

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

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 $1\frac{1}{2}$ (40)
- THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

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

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

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT

(5) EXISTING STRUCTURE

- (7) CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (9) PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

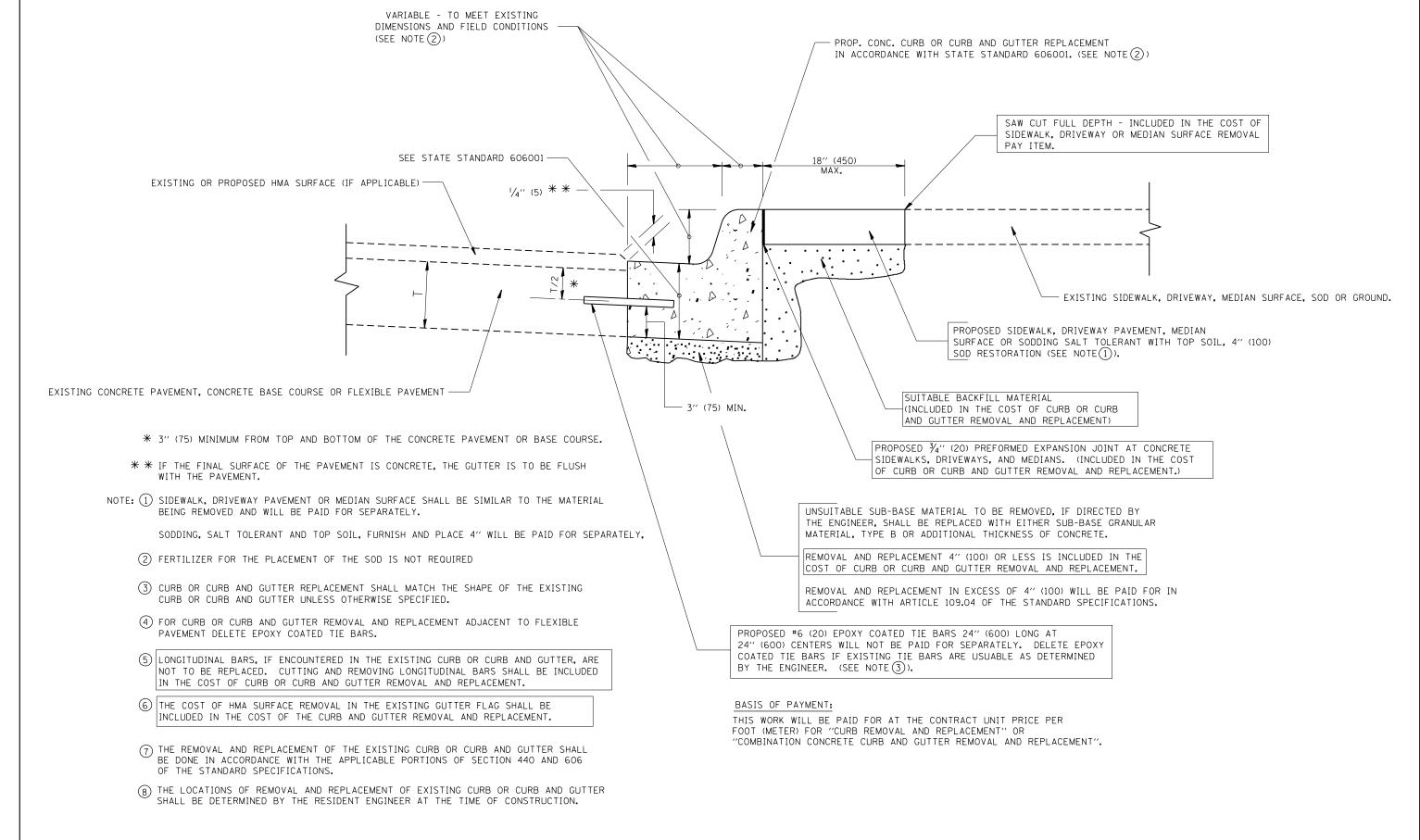
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

| FILE NAME = | USER NAME = dettmannra | DESIGNED | - | R. SHAH | REVISED | - | R. | WIEDEMAN 05-14-04 |
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| c:\pw_work\pwidot\dettmannra\d0230696\E | ıstStd.dgn | DRAWN | - | | REVISED | - | R. | BORO 01-01-07 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED | - | | REVISED | - | R. | BORO 03-09-11 |
| | PLOT DATE = 6/13/2014 | DATE | - | 10-25-94 | REVISED | - | R. | BORO 12-06-11 |

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

| | DETAILS FOR | | | | | | | TION | | |
|-------------|---|--------|------|---------|--------|-----------------|------------|------|--|--|
| | FRAMES AND LIDS ADJUSTMENT WITH MILLING | | | | | | 353 23R-RS | | | |
| | FRANCES AND LIDS ADJUSTINENT WITH WILLING | | | | | | | | | |
| SCALE: NONE | SHEET NO. 1 OF 1 | SHEETS | STA. | TO STA. | FED. R | OAD DIST. NO. 1 | ILLINOIS | FED. | | |

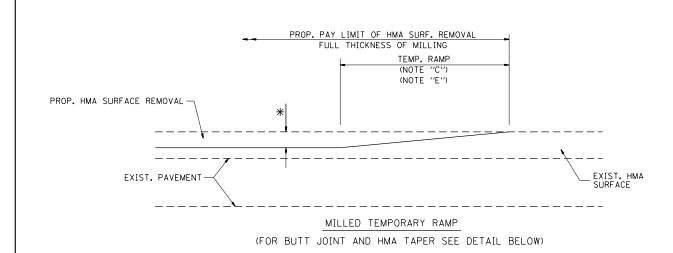
COUNTY COOK 66 35 CONTRACT NO. 60L94 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



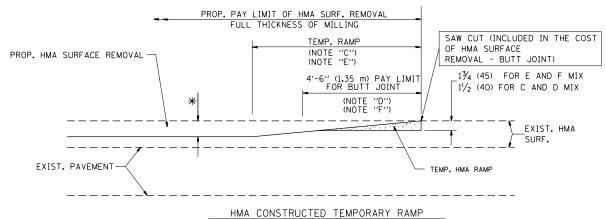
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

| FII | ILE NAME = | USER NAME = dettmannra | DESIGNED - A. HOUSEH | REVISED - R. SHAH 10-03-96 | | CURB OR CURB AND GUTTER | | | F.A.P. | SECTION | COUNTY | SHEET NO. |
|-----|---|-------------------------------|----------------------|-----------------------------|------------------------------|---|--|--|--------|---|----------|-------------|
| c: | :\pw_work\pwidot\dettmannra\d0230696\Di | stStd.dgn | DRAWN - | REVISED - A. ABBAS 03-21-97 | STATE OF ILLINOIS | | | | 353 | 23R-RS | соок | 66 36 |
| | | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - M. GOMEZ 01-22-01 | DEPARTMENT OF TRANSPORTATION | REMOVAL AND REPLACEMENT SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | | | | 600-06 (BD-24) | CONTRACT | T NO. 60L94 |
| | | PLOT DATE = 6/13/2014 | DATE - 03-11-94 | REVISED - R. BORO 12-15-09 | | | | | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | |



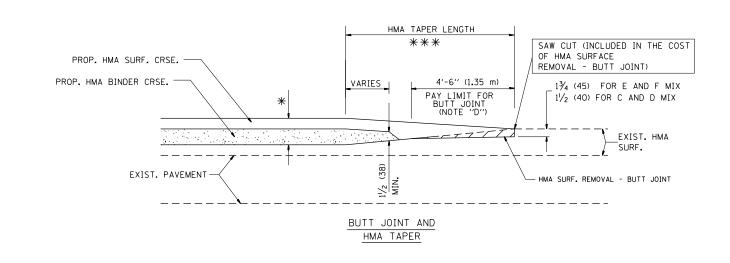
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

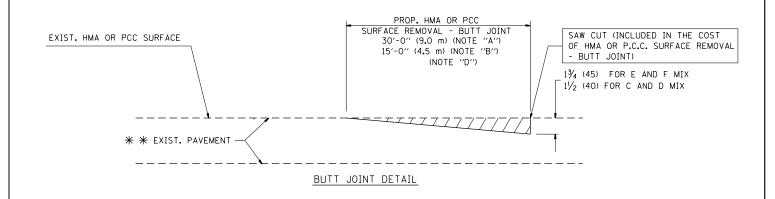
TYPICAL TEMPORARY RAMP

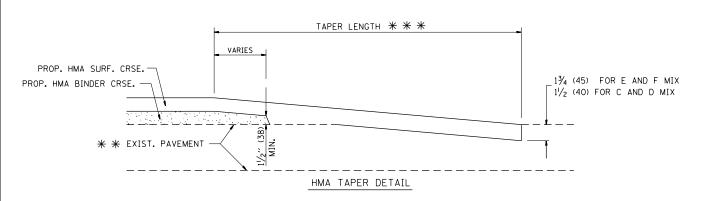


TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| BUTT JOINT AND | | F.A.P. | SECTION | COUNTY | TOTAL | SHEET | NO. | SHEET | SHEET | NO. | SHEET | SHEET





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

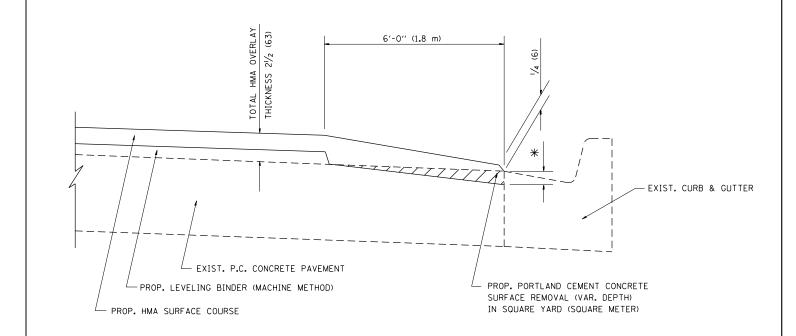
NOTES

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

BASIS OF PAYMENT:

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

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



HMA TAPER AT EDGE OF P.C.C PAVEMENT

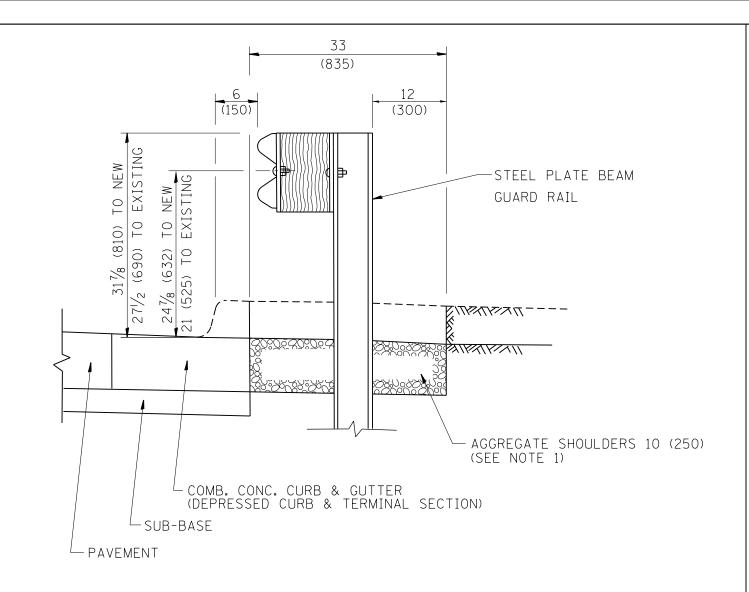
| HMA SURF ACE | | LEVELING BINDER | |
|-----------------|-----------|--------------------|--------------------------|
| MIX | THICKNESS | THICKNESS | ★ MILLING AT GUTTER FLAG |
| C OR D | 11/2 (38) | 1 (25) | 11/4 (33) |
| F | 1¾ (44) | 3/4 (19) | 11/2 (38) |

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

| FILE NAME = | USER NAME = dettmannra | DESIGNED | - | R. SHAH | REVISED | - | R. SHAH 10-25-94 |
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| c:\pw_work\pwidot\dettmannra\d0230696\E | ıstStd.dgn | DRAWN | - | JIS | REVISED | - | A. ABBAS 05-05-99 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED | - | A. ABBAS | REVISED | - | E. GOMEZ 12-21-00 |
| | PLOT DATE = 6/13/2014 | DATE | - | 09-10-94 | REVISED | - | R. BORO 01-01-07 |

| STATI | OF ILLINOIS | |
|------------|--------------|-------|
| DEPARTMENT | OF TRANSPORT | ATION |

| HMA TAPER AT | | | | | | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
|--------------|-------------------------|-----|--------|---------|---------|---|----------|-----------------|--------------|--|
| | FIGE OF P.C | 353 | 23R-RS | соок | 66 | 38 | | | | |
| | EDGE OF P.C.C. PAVEMENT | | | | | D400-06 (BD33) | CONTRACT | NO. 6 | 50L94 | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHE | ETS | STA. | TO STA. | FED. RO | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



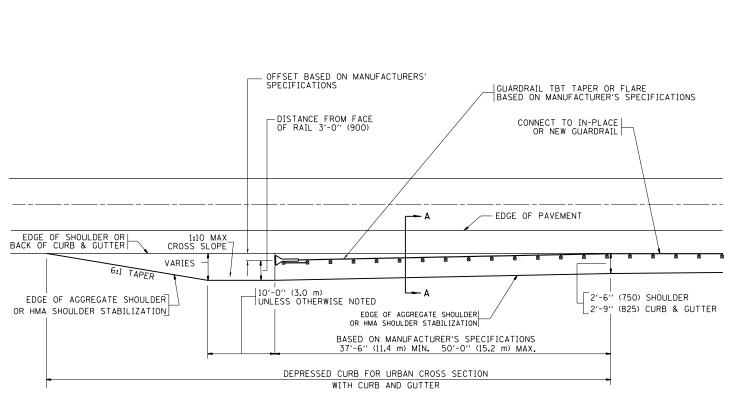
SECTION A-A

- NOTES: 1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 - 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 - 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM

GUARD RAIL ADJACENT TO CURB AND GUTTER

[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE

PAID FOR AT THE CONTRACT UNIT PRICE
PER SQUARE YARD (SQUARE METER) FOR
"HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL

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

| FILE NAME = | USER NAME = dettmannra | DESIGNED | - | M. DE TUNG | KEAIZED | - | E. GUMEZ U8-28-00 |
|---|------------------------------|----------|---|------------|---------|---|--------------------|
| c:\pw_work\pwidot\dettmannra\d0230696\D | ıstStd.dgn | DRAWN | - | | REVISED | - | R. BORO 01-01-07 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED | - | | REVISED | - | R. BORO 12-08-2008 |
| | PLOT DATE = 6/13/2014 | DATE | - | 09-22-90 | REVISED | - | R. BORO 09-14-2009 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | DETAILS FOR DEPRESSED CURB & GUTTER AND | | | | | | | | | |
|---|---|-----------|---------|---|--------|--|--|--|--|--|
| DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL. SHEFT NO. 1 OF 1 SHEFTS STA. TO STA. | | | | | | | | | | |
| | SHEET NO. 1 | OF 1 SHEE | TS STA. | Т | O STA. | | | | | |

SCALE: NONE

FABRICATION GENERAL NOTES

MATERIALS:

- 1. EPOXY COATED DOWEL BARS USED SHALL COMPLY WITH ASTM A 615 GRADE 60.
- 2.ALL EMBEDDED LIFTING HARDWARE USED SHALL BE GALVANIZED.

 A. FOR LIFTING INSERTS, INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION INCLUDING MINIMUM EDGE DISTANCE AND SPACING REQUIREMENTS. UNLESS THE CONTRACTOR AND FABRICATOR WILL BE USING A LIFTING BEAM OR ROLLING SHEAVE TO ENSURE THAT EACH OF THE FOUR INSERTS WILL SHARE THE LOAD EQUALLY, TWO OF THE FOUR INSERTS MUST BE CAPABLE OF CARRYING THE TOTAL LOAD WITH A 4:1 SAFETY FACTOR WHILE ADJUSTING FOR THE ANGLE OF THE CABLES AND THE STRENGTH OF THE CONCRETE OVER TIME. THE INSERT SHOULD BE RECESSED A MINIMUM OF 1½" UNLESS THE SLAB IS TO BE OVERLAID IMMEDIATELY AFTER PLACEMENT. THE INSERT SHALL LEAVE A MAXIMUM 1¼" DIAMETER THREADED HOLE TO BE GROUTED AFTER SLAB INSTALLATION. IF THE INSERT IS IN-
 - CRETION.

 B. FOR LIFTING PLATES, INSTALLATION MUST BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND HAVE A STANDARD 5:1 SAFETY FACTOR FOR LIFTING HARDWARE, UNLESS A LIFTING BEAM IS USED TO SPACE THE FOUR PICK POINTS DIRECTLY ABOVE THE INSERTS, THE LIFTING HARDWARE MUST BE RATED FOR USE WITH CABLES AT AN ANGLE AND TWO OF THE FOUR DEVICES MUST BE CAPABLE OF LIFTING THE FULL

LOAD AS WITH THE INSERTS REFERENCED IN THE PREVIOUS NOTE.

STALLED WITH A FULL SLAB PENETRATION, THE LIFTING INSERT CAN

BE USED AS A BEDDING GROUT PORT AT THE CONTRACTOR'S DIS-

- 3.REINFORCEMENT USED SHALL BE EPOXY COATED, IN ACCORDANCE WITH ASTM A706 GRADE 60 AND IN COMPLIANCE WITH ARTICLE 1006.10 OF THE STANDARD SPECIFICATIONS.
- 4.CONCRETE COVER OVER REINFORCEMENT TO BE MAINTAINED USING WIRE OR THERMOPLASTIC CHAIRS OR SPACERS OR AN APPROVED EQUIVALENT.
- 5.CONCRETE USED SHALL MEET THE FOLLOWING REQUIREMENTS:

 A. CONCRETE USED SHALL BE CLASS PC (f'C = 4,500 PSI @ 28 DAYS) IN

 ACCORDANCE WITH SECTION 1020 OF THE STANDARD SPECIFICATIONS.
 - B. MINIMUM STRIPPING STRENGTH OF CONCRETE SHALL BE 3,000 PSI. C. CONCRETE MIX DESIGN TO BE SUBMITTED AND APPROVED PRIOR TO
 - FABRICATION.

 D. CURING OF CONCRETE SLABS TO BE IN ACCORDANCE WITH THE SPECIFIED METHODS OF SECTION 1020 OF THE STANDARD
 - SPECIFIED METHODS OF SECTION 1020 OF THE STANDARD

 SPECIFICATIONS. THE CURING PROCEDURE TO BE USED SHALL BE
 SUBMITTED AND APPROVED PRIOR TO FABRICATION.

SLAB DESIGN:

- 6.FOR STANDARD SLABS:
 - A. USE SLAB DIMENSIONS SHOWN ON THE DISTRICT STANDARD DRAWINGS FOR DESIGN SLAB THICKNESS, WIDTH, AND LENGTH. ACTUAL WIDTH TO BE MODIFIED WITH ON-SITE SAW CUTS TO FIT THE OPENING.
 - B. SIZE ANY PREFORMED SLOTS THAT ARE DESIGNED FOR CONSECUTIVE STANDARD SLABS CONSISTENT WITH THE THICKNESS OF THE SLAB SUCH THAT THE BOTTOM OF THE OPENING IS AT LEAST $2l_2^{\prime\prime}$ ($\pm l_2^{\prime\prime}$) WIDE AND AT LEAST $l_2^{\prime\prime}$ OF GROUT COVER IS PROVIDED UNDER THE DOWEL.

- C. FOR STANDARD SLABS WITH WIDE OPEN SLOTS AND/OR EMBEDDED DOWEL BARS, IT SHALL BE THE CONTRACTOR'S OPTION TO EITHER PRE-INSTALL/EMBED THE DOWEL BARS INTO THE SLABS AT THE PRECAST PLANT AND PARTIALLY RETROFIT THE EMBEDDED DOWELS INTO ADJACENT PAVEMENT SLABS IN THE FIELD, OR TO FULLY RETROFIT THE DOWEL BARS INTO BOTH THE INSTALLED PRECAST SLAB AND ANY ADJACENT SLAB IN THE FIELD DURING PLACEMENT IN ACCORDANCE WITH CONTRACT SPECIFICATIONS AND THE GENERAL NOTES FOR INSTALLATION. THE LOCATIONS AND SPACING OF THE DOWEL BARS IN THE STANDARD SLABS SHALL BE SHOWN ON THE DISTRICT STANDARD DRAWINGS AND WITHIN THE SPECIFIED TOLERANCES FOR ALIGNMENT. FOR DOWEL BAR RETROFITING WITH STANDARD SLAB INSTALLATION, A STANDARD TEMPLATE SHALL BE USED TO LOCATE THE CUTS AND POSITION THE DOWEL SLOTS CONSISTENTLY.
- DOWEL SLOTS CONSISTENTLY.

 D. FOR STANDARD ISOLATED SLABS WITH NARROW ELONGATED PREFORMED DOWEL SLOTS, THE CENTERPOINT BETWEEN THE WHEEL PATH SLOTS SHALL BE MARKED.

7.FOR CUSTOM SLABS:

- A. USE SLAB DIMENSIONS SHOWN ON THE DISTRICT STANDARD DRAWINGS FOR DESIGN SLAB THICKNESS. LENGTHS AND WIDTHS OF EACH CUSTOM SLAB SHALL BE ACCURATE DIMENSIONS BASED ON FIELD SURVEY DATA COLLECTED BY THE CONTRACTOR TO DEVELOP WORKING DRAWINGS FOR THE SLAB. MINIMUM AND MAXIMUM DIMENSIONS FOR LENGTHS AND WIDTHS ARE NOTED ON THE STANDARD DRAWINGS.
- B. FOR ANY CUSTOM SLAB FABRICATED TO REPLACE EXISTING WARPED PAVEMENT AT AN ISOLATED LOCATION, THE CUSTOM SLAB SHALL BE FABRICATED ON A SINGLE PLANE. THE SLAB THICK-NESS OR BEDDING MATERIAL SHALL BE ADJUSTED TO ALLOW FOR THE ELEVATION OF ALL FOUR (4) CORNERS OF THE CUSTOM SLAB
 TO BE FLUSH OR HIGHER THAN THE EXISTING OR ADJOINING PAVEMENT WHEN INSTALLED. THE SURFACE OF ALL CUSTOM SLABS REPLACING WARPED PAVEMENT SHALL RECEIVE A COMPLETE PROFILE
 DIAMOND GRIND AFTER INSTALLATION AND GROUTING TO PROVIDE A SMOOTH SURFACE AND LEAVE ALL EDGES FLUSH WITH THE AD-JOINING PAVEMENTS. THE PROFILE GRINDING OPERATION FOR CUSTOM SLABS REPLACING ANY WARPED PAVEMENTS. ON CURVED RAMPS OR SUPERELEVATED MAINLINE SECTIONS, SHALL BE IN AC-CORDANCE WITH CONTRACT SPECIAL PROVISIONS FOR PROFILE DIAMOND GRINDING PRECAST CONCRETE PAVEMENT SLABS AND PAID FOR SEPARATELY. FOR CONSECUTIVELY PLACED CUSTOM SLABS FABRICATED TO REPLACE EXISTING WARPED PAVEMENT, FULL SURVEYS FOR X, Y, AND Z DIMENSIONS SHALL BE TAKEN BY THE CONTRACTOR BEFORE FABRICATION IN ORDER TO MATCH EXISTING GRADES AT ALL CORNERS DURING INSTALLATION.
- C.FOR ALL CUSTOM SLABS WITH WIDE OPEN SLOTS, THE DOWEL BARS SHALL BE FULLY RETROFITTED INTO ADJACENT PAVEMENT SLABS DURING FIELD INSTALLATION OF THE PRECAST SLAB IN ACCORDANCE WITH CONTRACT SPECIFICATIONS AND GENERAL NOTES FOR INSTALL -ATION.
- D. FOR ALL CUSTOMS SLABS WITH NARROW ELONGATED PREFORMED DOWEL SLOTS, THE DOWEL BARS SHALL BE SLID INTO PREDRILLED HOLES IN THE ADAJECENT PAVEMENT SLABS DURING FIELD INSTALLATION OF THE PRECAST SLAB IN ACCORDANCE WITH CONTRACT SPECIFICATIONS AND GENERAL NOTES FOR INSTALLATION.

- 8. ALL FABRICATED SLABS:
 - A. THE MAXIMUM ALLOWABLE JOINT WIDTH CAN NOT BE LESS THAN THE TOTAL OF THE ALLOWABLE SLAB FABRICATION TOLERANCES.
 - BBEDDING GROUT PORT HOLES SHABL BE LOCATED ON TRANSVERSE LINES ACROSS THE SLAB THAT ARE PARALLEL WITH EXISTING TRANSVERSE JOINTS. EACH PORT HOLE SHALL BE EVENLY DISTRIBUTED ON EACH LINE. THE DISTANCE BETWEEN BEDDING GROUT PORT HOLES SHALL NOT EXCEED 4'-0". WITH THE PORT HOLES AT THE END OF THE TRANSVERSE LINES TO BE NO LESS THAN 1'-8" AND NO MORE THAN 3'-0" OFF A LONGITUDINAL JOINT. THE TRANSVERSE LINES FOR PORT HOLES SHALL BE NO MORE THAN 4'-0" APART, AND NO LESS THAN 1'-8" AND NO MORE THAN 2'-6" OFF OF A TRANSVERSE JOINT.
 - C.RECESS LIFTING DEVICES 1" MINIMUM BELOW THE SURFACE OF THE SLAB TO ALLOW FOR A MINIMUM GROUT COVER OF 1" ON SLABS THAT WILL NOT BE OVERLAID.

FABRICATION:

- PREPARE WORKING DRAWINGS THAT SHALL INCLUDE THE FOLLOWING INFORMATION:
 - A. SLAB LAYOUT DRAWING FOR TYPICAL STANDARD SLABS AND FOR EACH CUSTOM SLAB TO BE FABRICATED, WITH ACCURATE DIMENSIONS CITED.
 - B. REINFORCEMENT SIZES, SPACING, NUMBER OF MATS, AND METHOD OF MAINTAINING CONCRETE COVER.
 - METHOD OF MAINTAINING CONCRETE COVER.

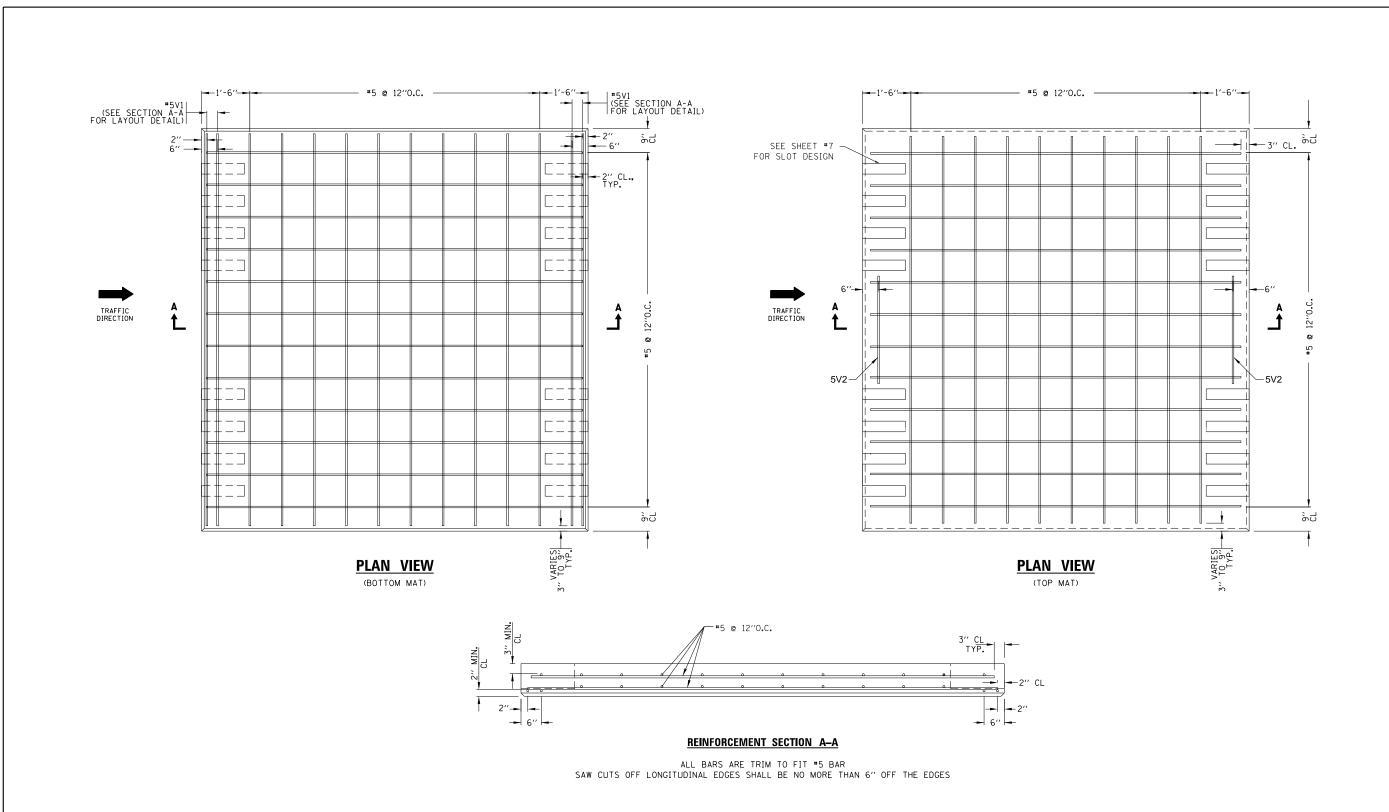
 C. SIZES AND LOCATIONS FOR EMBEDDED DOWELS, OF DOWEL BARS TO BE RETROFITIED AFTER PLACEMENT OF THE SLAB, AND OF PREFORMED SLOTS AT THE FEMALE END OF STANDARD SLABS FOR CONSECUTIVE PLACEMENT.
 - D. SIZE AND LOCATION OF GROUT PORTS, LIFTING ANCHORS, AND GROUT SEAL GASKETS.
 - E. COMPRESSIVE STRENGTH AND AIR CONTENT OF CONCRETE. F. CONCRETE CURING METHOD TO BE USED.
 - G. MARKING LEGEND FOR EACH SLAB TO INDICATE PRECAST MANUFACTURER, AND DATE OF PRODUCTION; AND FOR EACH CUSTOM SLAB TO INCLUDE CONTRACT NUMBER AND MARK NUMBER OF THE SLAB.
 - H. WEIGHT OF EACH SLAB.
- 10.PERFORM A PRE-POUR INSPECTION OF THE FORMS TO CONFIRM THAT THEY ARE ASSEMBLED IN ACCORDANCE WITH THE

- 11. INCLUDE A 1 INCH CHAMFER ALONG ALL BOTTOM EDGES OF SLABS. AND A STONED EDGE TO ALL TOP EDGES OF THE SLAB.
- 12.THE EXPOSED SURFACES OF ALL PREFORMED SLOTS FOR DOWEL BARS SHALL BE SANDBLASTED.
- 13.ACCURATELY SCREED TOP OF SLAB TO MEET SURFACE AND THICKNESS TOLERANCES.
- 14.APPLY EITHER AN ARTIFICIAL TURF DRAG FINISH TO TOP OF SLAB IN ACCORDANCE WITH ARTICLE 420.09(e)(2) OF THE STANDARD SPECIFICATIONS, OR A TINED FINISH IN ACCORDANCE WITH ARTICLE 420.09(e)(1) OF THE STANDARD SPECIFICATIONS AS INDICATED IN THE SLAB DESIGN SCHEDULE ON CONTRACT DRAWINGS.
- 15.AFTER REMOVAL OF FORMS AND ANY BLOCKOUTS, NO SPALLS OF THE FINISHED SURFACE WILL BE ALLOWED.

| FILE NAME = | USER NAME = dettmannra | DESIGNED - O. PATEL | REVISED - D.G. 6-14 | |
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| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | |
| Default | PLOT DATE = 6/19/2014 | DATE - 10-25-2013 | REVISED - | |

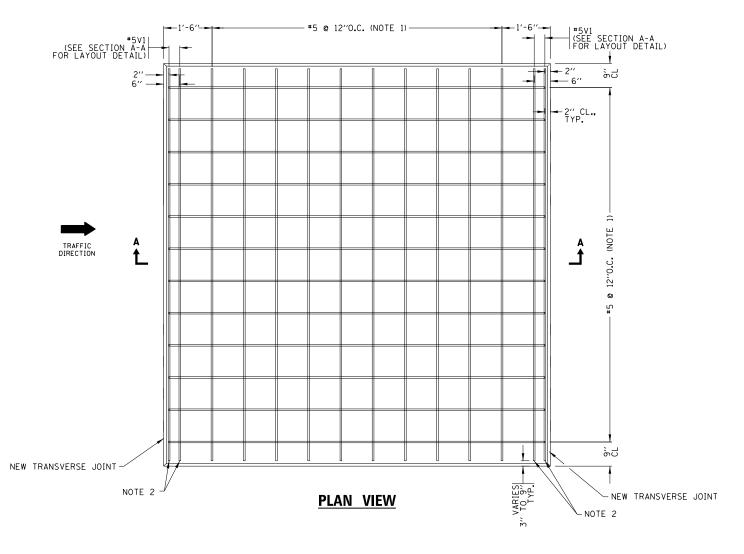
| STATE | OF | ILLINOIS |
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| DEPARTMENT | 0F | TRANSPORTATION |

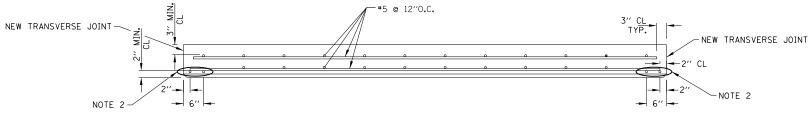
| | PRECAST CONCRETE PAVEMENT SLABS | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | |
|---|---|--------------|----------------------------------|-----------|-----------------|-------|
| ı | | 353 | 23R-RS | COOK | 66 | 40 |
| ı | | | BD 57 | CONTRACT | NO. 6 | 50L94 |
| | SCALE: NONE SHEET 1 OF 19 SHEETS STA. TO STA. | FED. R | OAD DIST, NO. 1 ILLINOIS FED. AL | D PROJECT | | |



STANDARD SLAB TYPICAL REINFORCEMENT DETAIL

| FILE NAME = | USER NAME = dettmannra | DESIGNED - O. PATEL | REVISED - D.G. 6-14 | | | PRECAST CONCRETE PAVEMENT SLABS | F.A. | SECTION | COUNTY | SHEETS NO. |
|---|-------------------------------|---------------------|---------------------|------------------------------|-------------|-----------------------------------|------|---------|------------|-------------|
| c:\pw_work\pwidot\dettmannra\d0230696\D | istStd.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | THEOROT CONTONETE TAVENERY CERES | 353 | 23R-RS | соок | 66 41 |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | BD 57 | | T NO. 60L94 |
| Default | PLOT DATE = 6/19/2014 | DATE - 10-25-2013 | REVISED - | | SCALE: NONE | SHEET 2 OF 19 SHEETS STA. TO STA. | | | ID PROJECT | |





REINFORCEMENT SECTION A-A

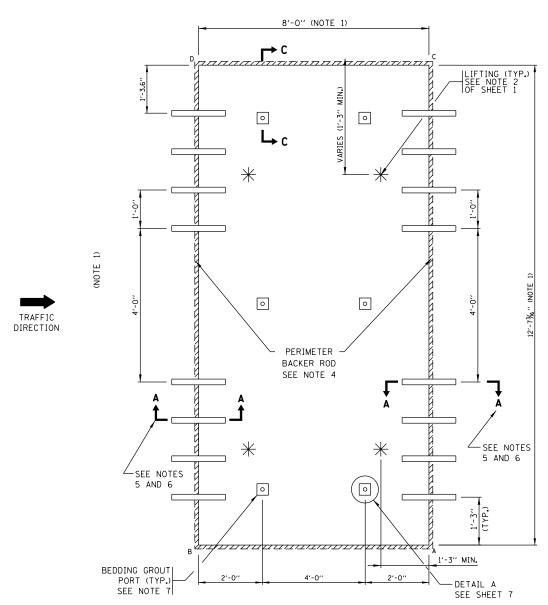
ALL BARS ARE TRIM TO FIT *5 BAR
SAW CUTS OFF LONGITUDINAL EDGES SHALL BE NO MORE THAN 6" OFF THE EDGES

NOTES:

- 1. FOR ALL CUSTOM SLABS OF TRAPEZOID SHAPES,
 THIS REINFORCEMENT SHALL BE LAID OUT IN A
 PERPENDICULAR GRID PATTERN, NOT SKEWED.
 2. THIS REINFORCEMENT SHALL BE PARALLEL TO THE
 NEW TRANSVERSE JOINT.

CUSTOM SLAB TYPICAL REINFORCEMENT DETAIL

| FILE NAME = | USER NAME = dettmannra | DESIGNED - O. PATEL | REVISED - D.G. 6-14 | | PRECAST CONCRETE PAVEMENT SLABS | | F.A. | SECTION | COUNTY TOTAL SHEETS | L SHEET | |
|---|------------------------------|---------------------|---------------------|------------------------------|---------------------------------|----------------------|---------------|---------|---------------------|-----------------|-------|
| c:\pw_work\pwidot\dettmannra\d0230696\[| lstStd.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | | THEORET CONVINCTE TA | VENIENT SEADS | 353 | 23R-RS | COOK 66 | 42 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | BD 57 | CONTRACT NO. 6 | 60L94 |
| Default | PLOT DATE = 6/19/2014 | DATE - 10-25-2013 | REVISED - | | SCALE: NONE | SHEET 3 OF 19 SHEETS | STA. TO STA. | | ILLINOIS F | ED. AID PROJECT | |



STANDARD 12'-6" WIDE PANEL LAYOUT FOR ISOLATED PLACEMENT WITH EMBEDDED DOWELS FOR PRECUT WIDE MOUTH **SLOTS IN ADJACENT PAVEMENT**

- 1. THE WIDTH AND LENGTH OF PRODUCED SLABS SHALL BE THE INDICATED DIMENSIONS \pm $\frac{1}{8}$ ".
- 2. FOR MIDDLE LANE SLAB OPENINGS/PATCHES LESS THAN 12'-6" IN WIDTH AND GREATER THAN 11'-6" IN WIDTH, THE STANDARD PERCAST SLAB CAN BE SAW CUT ON-SITE TO FIT THE OPENING AND TO MAINTAIN ALIGNMENT WITH EXISTING LONGITUDINAL JOINTS. OTHERWISE, THE SLAB PATCH LOCATION MUST BE PRESURVEYED BY THE CONTRACTOR AND THE SLAB FABRICATED AS A CUSTOM SLAB.
- 3. SLAB THICKNESS SHALL BE AS INDICATED IN THE PLANS.
- 4. A FOAM BACKER ROD SHALL BE PLACED AROUND THE OUTSIDE PERIMETER OF THE SLAB AT THE BOTTOM OF THE JOINTS BEFORE THE SLAB HAS BEEN SET AND BEFORE BEDDING GROUT OR POLYURETHANE LEVELING FILL IS APPLIED. THE BACKER ROD SHALL NOT BE REQUIRED WHEN ANY SLAB IS LEVELED WITH FLOWABLE FILL.
- 5. SEE SHEET 7 FOR SECTION DETAILS.
- 6. IT SHALL BE THE CONTRACTOR'S OPTION TO REPLACE ANY EMBEDED DOWEL BARS OR PREFORMED SLOTS AS SHOWN ON THESE DRAWINGS WITH FULLY RETROFITTED DOWEL BARS FIELD INSTALLED IN ACCORDANCE WITH "DETAIL C" OF SHEET 13. THE CONTRACTOR SHALL USE AN APPROVED TEMPLATE TO LOCATE THE SAW CUTS REQUIRED FOR PROPER SPACING AND RETROFITTING OF THE DOWEL BARS IN ACCORDANCE WITH THESE DRAWINGS. DIAMOND BLADED GANG SAWS SHALL BE USED TO MAKE SAW CUTS PERPENDICULAR TO THE TRANSVERSE (NONSKEWED) JOINT LINE TO ALLOW FOR DOWEL BAR PLACEMENTS WITHIN THE SPECIFIED TOLERANCES.
- 7. SEE NOTE 8 ON SHEET 1 FOR LOCATING UNDERSEALING GROUT PORTS.

FILE NAME : DESIGNED -O. PATEL REVISED - D.G. 6-14 USER NAME = dettmannra stStd.dan DRAWN REVISED CHECKED REVISED PLOT DATE = 6/19/2014 DATE 10-25-2013 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC

DIRECTION

-SEE NOTES

5 AND 6

BEDDING GROUT

SCALE: NONE

PORT (TYP.)

SECTION COUNTY PRECAST CONCRETE PAVEMENT SLABS 353 23R-RS COOK 66 43 CONTRACT NO. 60L94 BD 57 SHEET 4 OF 19 SHEETS STA.

STANDARD 12'-6" WIDE PANEL LAYOUT FOR CONSECUTIVE PLACEMENT

* FOR INTERNAL CONSECUTIVE SLABS, PREFORMED SLOTS IN ACCORDANCE WITH SECTION B-B OF SHEET 4 MAY BE USED IN-PLACE OF EMBEDDED DOWELS OR OF FIELD RETROFITTED DOWEL BARS WITH SAWCUT SLOTS. ALL PREFORMED SLOTS MUST BE FILLED BEFORE BEING OPENED TO TRAFFIC.

SEE SHEET 7

PERIMETER BACKER ROD

SEE NOTE 4

8'-0" (NOTE 1)

0

0

0

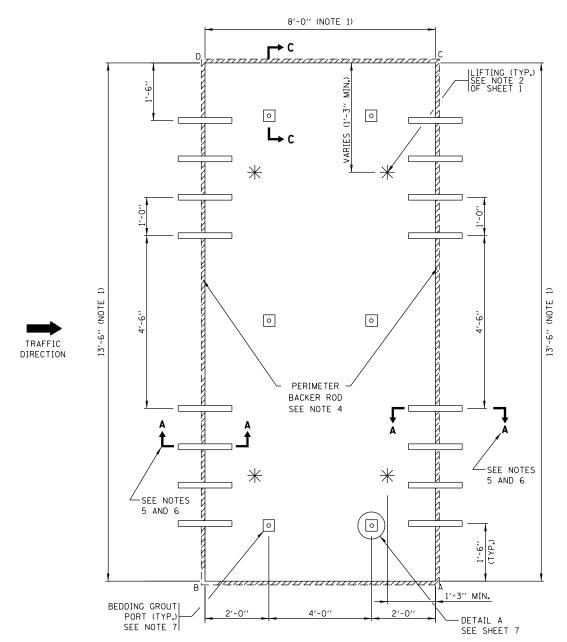
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-SEE NOTES

5 AND 6

1'-3" MIN.

DETAIL A



STANDARD 13'-6" WIDE PANEL LAYOUT FOR ISOLATED PLACEMENT WITH EMBEDDED DOWELS FOR PRECUT WIDE MOUTH SLOTS IN ADACENT PAVEMENT.

- 1. THE WIDTH AND LENGTH OF PRODUCED SLABS SHALL BE THE INDICATED DIMENSIONS $\pm \frac{1}{8}$ ".
- 2. FOR MIDDLE LANE SLAB OPENINGS/PATCHES LESS THAN 13'-6" IN WIDTH AND GREATER THAN 12'-6" IN WIDTH, THE STANDARD PERCAST SLAB CAN BE SAW CUT ON-SITE TO FIT THE OPENING AND TO MAINTAIN ALIGNMENT WITH EXISTING LONGITUDINAL JOINTS. OTHERWISE, THE SLAB PATCH LOCATION MUST BE PRESURVEYED BY THE CONTRACTOR AND THE SLAB FABRICATED AS A CUSTOM SLAB.
- 3. SLAB THICKNESS SHALL BE AS INDICATED IN THE PLANS.
- 4. A FOAM BACKER ROD SHALL BE PLACED AROUND THE OUTSIDE PERIMETER OF THE SLAB AT THE BOTTOM OF THE JOINTS BEFORE THE SLAB HAS BEEN SET AND BEFORE BEDDING GROUT OR POLYURETHANE LEVELING FILL IS APPLIED. THE BACKER ROD SHALL NOT BE REQUIRED WHEN ANY SLAB IS LEVELED WITH FLOWABLE FILL.
- 5. SEE SHEET 7 FOR SECTION DETAILS.
- 6. IT SHALL BE THE CONTRACTOR'S OPTION TO REPLACE ANY EMBEDED DOWEL BARS OR PREFORMED SLOTS AS SHOWN ON THESE DRAWINGS WITH FULLY RETROFITTED DOWEL BARS FIELD INSTALLED IN ACCORDANCE WITH "DETAIL C" OF SHEET 13. THE CONTRACTOR SHALL USE AN APPROVED TEMPLATE TO LOCATE THE SAW CUTS REQUIRED FOR PROPER SPACING AND RETROFITTING OF THE DOWEL BARS IN ACCORDANCE WITH THESE DRAWINGS. DIAMOND BLADED GANG SAWS SHALL BE USED TO MAKE SAW CUTS PERPENDICULAR TO THE TRANSVERSE (NONSKEWED) JOINT LINE TO ALLOW FOR DOWEL BAR PLACEMENTS WITHIN THE SPECIFIED TOLERANCES.
- 7. SEE NOTE 8 ON SHEET 1 FOR LOCATING UNDERSEALING GROUT PORTS.

FILE NAME : DESIGNED -O. PATEL REVISED - D.G. 6-14 USER NAME = dettmannra stStd.dan DRAWN REVISED CHECKED REVISED PLOT DATE = 6/19/2014 DATE 10-25-2013 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC

DIRECTION

SECTION COUNTY PRECAST CONCRETE PAVEMENT SLABS 353 23R-RS COOK 66 44 BD 57 CONTRACT NO. 60L94 SCALE: NONE SHEET 5 OF 19 SHEETS STA. TO STA.

8'-0" (NOTE 1)

0

0

-SEE NOTES

5 AND 6

BEDDING GROUT

0

0

0

1'-3" MIN.

PERIMETER

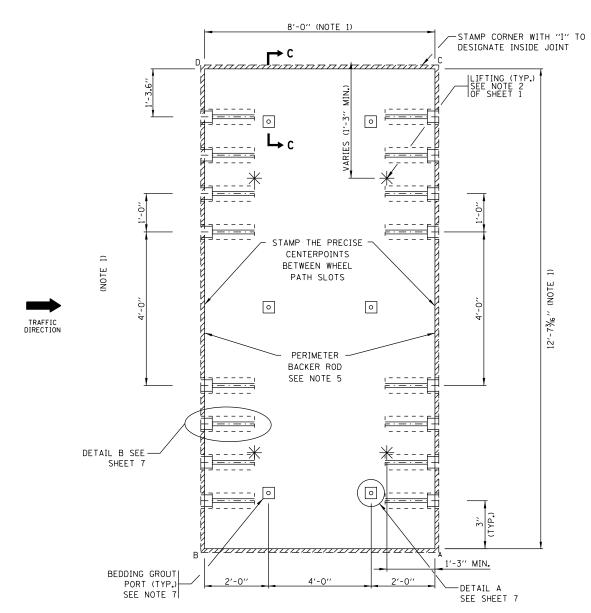
BACKER ROD

SEE NOTE 4

* FOR INTERNAL CONSECUTIVE SLABS, PREFORMED SLOTS IN ACCORDANCE WITH SECTION B-B OF SHEET 4 MAY BE USED IN-PLACE OF EMBEDDED DOWELS OR OF FIELD RETROFITTED DOWEL BARS

STANDARD 13'-6" WIDE PANEL LAYOUT FOR CONSECUTIVE PLACEMENT

WITH SAWCUT SLOTS. ALL PREFORMED SLOTS MUST BE FILLED BEFORE BEING OPENED TO TRAFFIC.



STANDARD 12'-6" WIDE PANEL LAYOUT FOR ISOLATED PLACEMENT WITH NARROW MOUTH PREFORMED DOWEL SLOTS TO ALIGN WITH PREDRILLED HOLES IN ADJACENT PAVEMENT.

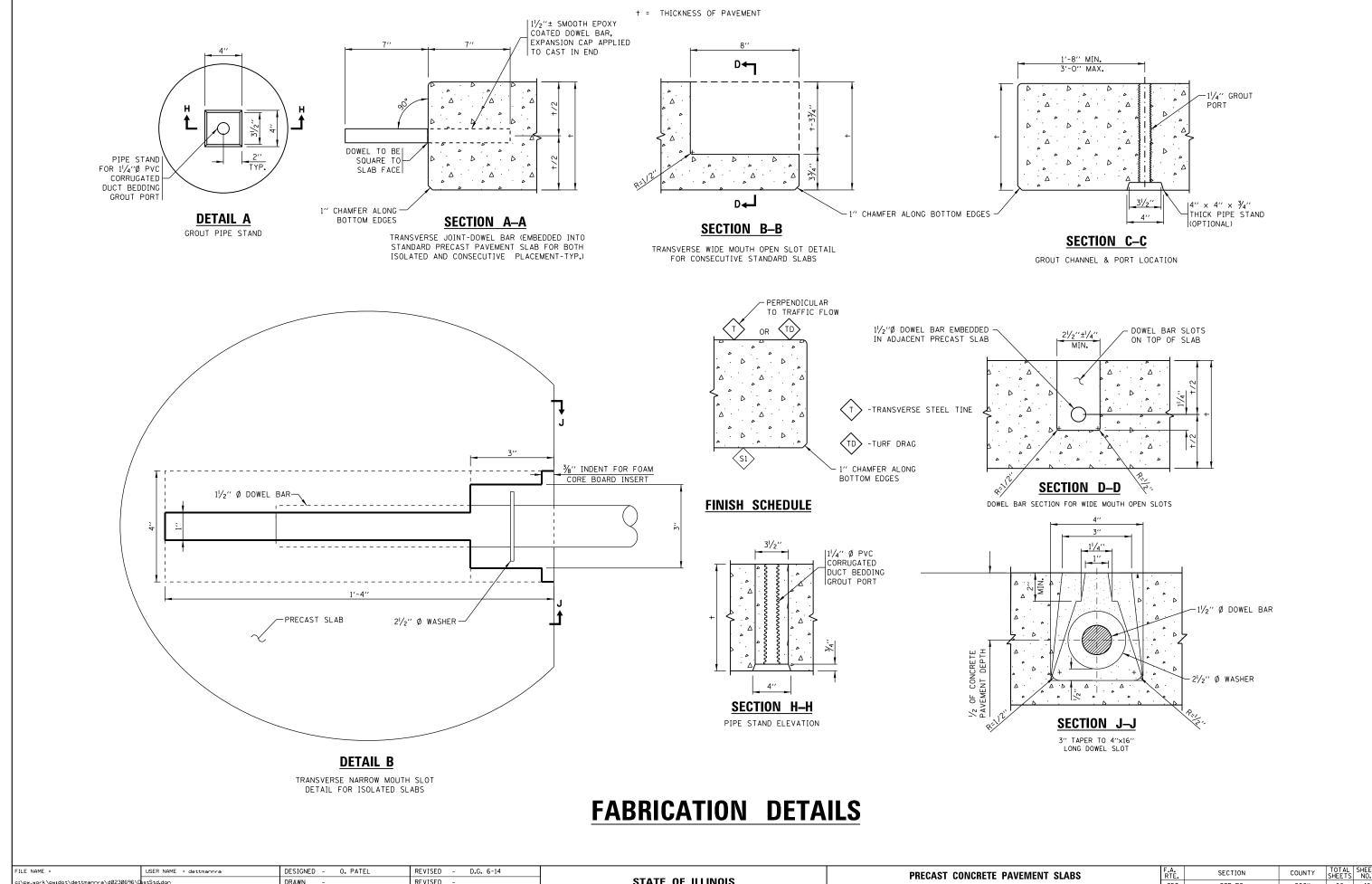
8'-0" (NOTE 1) STAMP CORNER WITH "I" TO DESIGNATE INSIDE JOINT <u>manadammininananiah</u> 0 _____ * 1----STAMP THE PRECISE CENTERPOINTS BETWEEN WHEEL PATH SLOTS 0 0 TRAFFIC DIRECTION PERIMETER BACKER ROD SEE NOTE 5 <u>____</u> ____ DETAIL B SEE _----SHEET **₽**===== 1'-3" MIN. BEDDING GROUT | PORT (TYP.) 4'-0' -DETAIL A SEE NOTE 7 SEE SHEET 7

STANDARD 13'-6" WIDE PANEL LAYOUT FOR ISOLATED PLACEMENT WITH NARROW MOUTH PREFORMED DOWEL SLOTS TO ALIGN WITH PREDRILLED HOLES IN ADJACENT PAVEMENT.

NOTES:

- 1. THE WIDTH AND LENGTH OF PRODUCED SLABS SHALL BE THE INDICATED DIMENSIONS $\pm~1/8$ ".
- 2. FOR MIDDLE LANE SLAB OPENINGS/PATCHES LESS THAN 12'-6" IN WIDTH AND GREATER THAN 11'-6" IN WIDTH, THE 12'-6" WIDE STANDARD PERCAST SLAB CAN BE SAW CUT ON-SITE TO FIT THE OPENING AND TO MAINTAIN ALIGNMENT WITH EXISTING LONGITUDINAL JOINTS. OTHERWISE, THE SLAB PATCH LOCATION MUST BE PRESURVEYED BY THE CONTRACTOR AND THE SLAB FABRICATED AS A CUSTOM SLAB.
- 3. FOR MIDDLE LANE SLAB OPENINGS/PATCHES LESS THAN 13'-6" IN WIDTH AND GREATER THAN 12'-6" IN WIDTH, THE 13'-6" WIDE STANDARD PERCAST SLAB CAN BE SAW CUT ON-SITE TO FIT THE OPENING AND TO MAINTAIN ALIGNMENT WITH EXISTING LONGITUDINAL JOINTS. OTHERWISE, THE SLAB PATCH LOCATION MUST BE PRESURVEYED BY THE CONTRACTOR AND THE SLAB FABRICATED AS A CUSTOM SLAB.
- 4. SLAB THICKNESS SHALL BE AS INDICATED IN THE PLANS.
- 5. A FOAM BACKER ROD SHALL BE PLACED AROUND THE OUTSIDE PERIMETER OF THE SLAB AT THE BOTTOM OF THE JOINTS BEFORE THE SLAB HAS BEEN SET AND BEFORE BEDDING GROUT OR POLYURETHANE LEVELING FILL IS APPLIED. THE BACKER ROD SHALL NOT BE REQUIRED WHEN ANY SLAB IS LEVELED WITH FLOWABLE FILL.
- 6. SEE SHEET 7 FOR SECTION DETAILS.
- 7. SEE NOTE 8 ON SHEET 1 FOR LOCATING UNDERSEALING GROUT PORTS.

| FILE NAME = | USER NAME = dettmannra | DESIGNED - 0. PATEL | REVISED - D.G. 6-14 | | PRECAST CONCRETE PAVEMENT SLABS | F.A. | SECTION | COUNTY CHEET | SHEET |
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| c:\pw_work\pwidot\dettmannra\ | d0230696\DistStd.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | THEORET CONCILETE TAVEMENT CLADS | 353 | 23R-RS | COOK 66 | 45 |
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FOR NON STANDARD SLABS, UPON COMPLETION BY THE CONTRACTOR A SLAB LAYOUT WILL BE ADDED WITH SLAB DIMENSIONS TO INCLUDE BUT NOT BE LIMITED TO THE TABLE SHOWN BELOW.

| 빌 | | 6747700 | MATNI INF | DAME | RAMP | | | | VARIABL | ES (FT.) | | AB* | no.* | ۰۰* | AC* | 1051 | | | DIAGONA | LS (FT.) |
|-------|-------|-------------------|-------------|-------------|---------------------|-------------|---------------|-------------|-------------|-------------|-------------|------|-------------|-------------|-----|------------------|---------------------|--------|---------|----------|
| EXAME | ROUTE | STATION NUMBER | LANE NO. | RAMP ID. | RAMP LANE NO. | MARK NO. | L ANE TYPE | AB (FT.) | AC (FT.) | BD (FT.) | CD (FT.) | SIDE | BD* SIDE | CD* SIDE | | AREA (SQ.FT.) | VOLUME (CU. FT.) | (TONS) | AD | ВС |
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RAMP LANE NO.: MARK NO.: LANE TYPE:

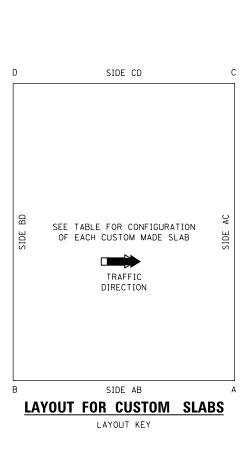
MAINLINE LANE NO.: LANE NO. 1 IS ADJACENT TO MEDIAN SHOULDER. RAMP LANE NO.: LANE NO. 1 IS ADAJACENT TO THE BUILDING EACH PANEL SHALL BE INDIVIDUALLY MARKED FOR CORRECT PLACEMENT. "OUT" IN THIS COLUMN INDICATES OUTSIDE LANE. "MID" IN THIS COLUMN INDICATES MIDDLE LANE. "IN" IN THIS COLUMN INDICATES INSIDE LANE

*LEGEND

DB= DOWEL BAR EMBEDDED DS= DOWEL SLOT

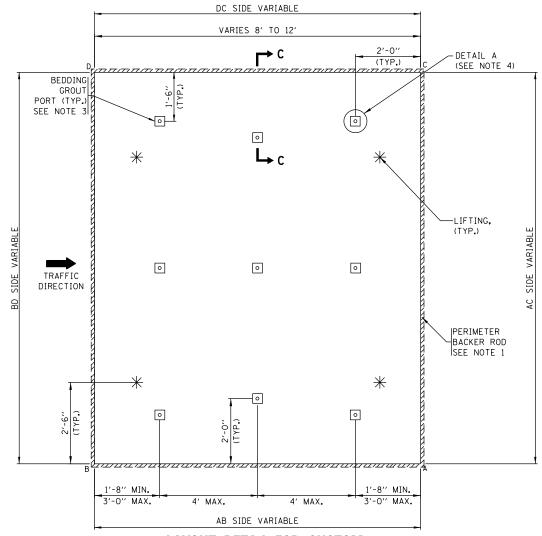
ST= SLOT OR HOLE FOR STITCHED TIE BAR

RD= FIELD RETROFITTED DOWEL BARS



NOTES:

- 1. A FOAM BACKER ROD SHALL BE PLACED AROUND THE OUTSIDE PERIMETER OF THE SLAB AT THE BOTTOM OF THE JOINTS BEFORE THE SLAB HAS BEEN SET AND BEFORE BEDDING GROUT OR POLYURETHANE LEVELING FILL IS APPLIED. THE BACKER ROD SHALL NOT BE REQUIRED WHEN ANY SLAB IS LEVELED WITH A FLOWABLE FILL.
- 2. EITHER SINGLE DIAMOND BLADED SAWS OR DIAMOND BLADED GANG SAWS SHALL BE USED TO MAKE THE SAW CUTS PERPENDICULAR TO THE TRANSVERSE (NONSKEWED) JOINT LINE TO ALLOW FOR DOWEL BAR PLACEMENTS WITHIN THE SPECIFIED TOLERANCES.
- 3. SEE NOTE 8 ON SHEET 1 FOR LOCATING BEDDING GROUT PORTS.
- 4. SEE SHEET 7 FOR SECTION DETAILS.



LAYOUT DETAIL FOR CUSTOM SLABS 8'-12' IN LENGTH (VARIED WIDTH **)

**FOR TRAPEZOID SLABS MINIMUM WIDTH IS 2 FT. WITH MAXIMUM WIDTH OF 16 FT.

SCALE: NONE

| - 1 | FILE NAME = | USER NAME = dettmannra | DESIGNED - | O. PATEL | REVISED - | D.G. 6-14 |
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| | PRECAST CONCRETE PAVEMENT SLABS | | | | | | | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|---------------------------------|---|----|----|--------|------|--|---------|--------|---------------------------|----------|--------|-----------------|--------------|
| | | | | | | | | 353 | 23R-RS | COOK | 66 | 47 | | |
| | | | | | | | | | | BD 57 | CONTRACT | NO. | 50L94 | |
| | SHEET | 8 | OF | 19 | SHEETS | STA. | | TO STA. | | ILLINOIS FED. AID PROJECT | | | | |

ALIGNMENT:

- WHEN THE TRANSVERSE JOINTS OF ANY PRECAST SLAB CAN NOT BE ALIGNED WITH TRANSVERSE JOINTS IN ADJACENT LANES, A MINIMUM 2'-0" OFFSET BETWEEN JOINTS
- THE LONGITUDINAL JOINT OF ANY ISOLATED OR CONSECUTIVE STANDARD PRECAST SLAB MUST BE ALIGNED TO BE PARALLEL WITH EXISTING LONGITUDINAL JOINTS, NO LONGITUDINAL OFFSETS SHALL BE ALLOWED. THE WIDTH OF ANY OF THE STANDARD PRECAST SLABS SHALL BE SAW CUT ON-SITE TO BE ALIGNED WITH THE EXISTING LONGITUDINAL JOINTS IN ADJACENT LANES OF EXISTING CONCRETE PAVEMENTS. THE WIDTH OF THE PRECAST SLAB SHALL BE NO MORE THAN $\frac{1}{2}$ INCH LESS THAN THE WIDTH OF THE EXISTING SLAB BEING REPLACED. IF A STANDARD SLAB DOES NOT COMPLY WITH TOLERANCES FOR MAXIMUM AND MINIMUM WIDTHS FOR A DESIGNATED LOCATION, THEN A CUSTOM SLAB SHALL BE REQUIRED TO BE PRODUCED
- 3. THE TRANSVERSE JOINT OF ANY PRECAST SLAB SHALL BE NO LESS THAN 4'-O" DISTANCE FROM AN EXISTING TRANSVERSE JOINT THAT REMAINS, OR NO LESS THAN 2'-0" DISTANCE PAST ANY EXISTING TRANSVERSE JOINT THAT IS REMOVED AND REPLACED WITH A
- 4. PRIOR TO THE PLACEMENT OF AN ISOLATED STANDARD PRECAST SLAB IN A MIDDLE LANE. THE WIDTH BETWEEN EXISTING LONGITUDINAL CONCRETE PAVEMENTJOINTS SHALL BE MEASURED BY THE CONTRACTOR UNDER MAINTENANCE OF TRAFFIC PROVIDED BY THE CONTRACTOR. ONLY APPROXIMATE WIDTHS SHALL BE MEASURED BY AND PROVIDED BY THE DESIGNER FOR BIDDING PURPOSES. THE CONTRACTOR'S WIDTH MEASUREMENTS SHALL BE USED TO DETERMINE THE NEED FOR ANY ON-SITE SAWCUTS OF THE SHALL BE USED TO DETERMINE THE NEED FOR ANY ON-SITE SAWCUTS OF THE LONGITUDINAL EDGES TO FIT THE OPENING AND TO ALIGN THE SAW CUT EDGE(S) WITH ANY EXISTING LONGITUDINAL JOINTS. THE LONGITUDINAL EDGES OF ANY STANDARD SLAB SHALL NOT BE SAW CUT MORE THAN 6 INCHES OFF THE ORIGINAL EDGE. NO NEW LONGITUDINAL JOINT SHALL BE ALLOWED INSIDE THE EXISTING JOINT BY MORE THAN 3/4 INCH. IF THESE TOLERANCES CAN NOT BE MET, THEN A CUSTOM SLAB SHALL BE REQUIRED. FOR ISOLATED STANDARDS SLABS PLACED IN THE OUTSIDE OR INSIDE LANES, THE NEW CONCRETE LONGITUDINAL JOINT SHALL MATCH THE EXISTING JOINT. THE STANDARD PRECAST SLAB MAY EXTEND INTO THE EXISTING HMA SHOULDERS NO MORE THAN 6 INCHES TO ALLOW FOR PROPER ALIGNMENT OF THE CONCRETE JOINTS. THE ONLY ALTERNATIVE TO ON-SITE SAW CUTTING OF ISOLATED STANDARD SIZES PRE-FABRICATED SLABS IS TO DESIGN AND FABRICATE EACH SLAB, TAKING WIDTH MEASUREMENTS AT THE BEGINNING OF A PROJECT AND THEN FABRICATING THE SLAB TO FIT THE SPECIFIC OPENING DIMENSIONS.
- FOR STANDARD SLAB PLACEMENTS, A TEMPLATE SUPPLIED BY THE PRECAST FABRICATOR SHALL BE USED TO LOCATE THE PERIMETER SAW CUTS FOR THE SLAB. THE TEMPLATE MAY BE USED TO MARK LONGITUDINAL EDGE SAW CUT LOCATIONS ON A PRECAST SLAB TO FIT THE SAME PATCH OPENING THAT THE TEMPLATE WAS USED FOR TO LOCATE A PERIMETER SAW CUT. IF THE SLAB DOWEL BAR IS RETROFITTED OR FABRICATED FOR INSERTED DOWELS, THE TEMPLATE MAY ALSO BE USED FOR THE EMBEDDED /SLOTTED DOWEL BAR LOCATIONS TO BE RETROFITTED OR INSERTED INTO EXISTING PAVEMENT.

LOAD TRANSFER:

- ACROSS STANDARD SLABS
 - A. THE EMBEDDED DOWEL BARS OF ISOLATED STANDARD PRECAST SLABS SHALL BE RETROFITTED INTO EXISTING CONRETE PAVEMENT IN ACCORDANCE WITH DETAIL D
 - B. THE EMBEDDED DOWEL BARS OF CONSECUTIVE STANDARD SLABS SHALL BE:
 - RETROFITTED INTO THE EXISTING CONCRETE PAVEMENT AT THE LOCATION OF THE FIRST SLAB PLACEMENT IN ACCORDANCE WITH DETAIL D (SEE SHEET 14).
 - ii) RETROFITTED INTO THE PREFORMED SLOTS OF ADJACENT PRECAST SLABS IN ACCORDANCE WITH DETAIL E (SEE SHEET 15).
 - III) EITHER FULLY RETROFITTED INTO THE PREFORMED SLOT OF THE LAST INSTALLED CONSECUTIVE PRECAST SLAB AND THE ADJACENT CONCRETE PAVEMENT IN ACCORDANCE WITH DETAIL F (SEE SHEET 16), OR PARTIALLY RETROFIT AN EMBEDDED DOWEL BAR OF A STANDARD ISOLATED SLAB INTO ADJACENT PAVEMENT AS THE LAST INSTALLED CONSECUTIVE PRECAST SLAB IN ACCORDANCE WITH DETAIL D (SEE SHEET 14).
 - C. FOR PRECAST STANDARD SLABS WITH NO EMBEDDED DOWEL BARS AND WITH NO NARROW MOUTH PREFORMED SLOTS FOR DOWEL INSERTIONS, THE DOWEL BARS SHALL BE FULLY RETROFITTED ACROSS ALL TRANSVERSE JOINTS IN THE FIELD IN ACCORDANCE WITH DETAIL C (SEE SHEET 13). THE LOCATIONS AND SPACING OF ALL FIELD RETROFITTED DOWEL BARS SHALL COMPLY WITH THE SPECIFIED TOLERANCES AS SHOWN ON SHEETS 4 AND 5.
 - D. FOR PRECAST STANDARD SLABS WITH LONG AND NARROW MOUTH PREFORMED SLOTS AS SHOWN ON SHEET 6, THE LOCATIONS FOR PREDRILLED HOLES FOR DOWEL BAR INSERTIONS SHALL BE ALIGNED WITH THE PREFORMED SLOTS IN THE SPECIFIC PANEL BEING PLACED. ONLY GANG DRILLS WILL BE USED TO DRILL THE HOLES. THE HOLES SHALL BE PARALLEL TO THE GRADE AND CENTERLINE OF THE PAVEMENT WITH A TOLERANCE OF 1/8 INCH IN 12 INCHES. THE DRILLING OPERATION SHALL NOT CRACK OR SPALL THE PAVEMENT. BEFORE SLAB PLACEMENT, THE DOWEL BARS SHALL BE PLACED WITHIN THE ELONGATED SLOTS AND THE PREDRILLED HOLES THOROUGHLY CLEANED OF DRILLING DEBRIS. AFTER SLAB PLACEMENT, THE DOWEL BARS WILL BE SLID INTO THE PREDRILLED HOLES AND EPOXIED IN ACCORDANCE WITH ARTICLE 442.06(a)(2) OF THE STANDARD SPECIFICATIONS WITH RETENTION DISKS OR WASHERS PLACED AGAINST THE FACE OF THE SLAB. SEE DETAIL G OF SHEET 17. IMMEDIATELY PRIOR TO FILLING THE PREFORMED SLOT WITH BACKFILL GROUT, THE EXPOSED ENDS OF THE DOWEL BARS SHALL BE CLEANED AND LIGHTLY OILED IN SUCH A MANNER AS TO NOT CONTAMINATE THE SURFACE OF ANY CLEANED SLOT AND THE FOAM CORE BOARD SHALL BE INSERTED AT THE FACE OF THE ADJACENT SLAB.

INSTALLATION GENERAL NOTES

- 7. ACROSS CUSTOM MADE SLABS
 - A. THE DOWEL BARS OF CUSTOM DESIGNED PRECAST SLABS PLACED CONSECUTIVELY. PLACED ON WARPED GRADES, OR PLACED ON RAMPS SHALL BE FULLY RETROFITTED ACROSS THE JOINT IN THE FIELD IN ACCORDANCE WITH DETAIL C (SEE SHEET 13). FOR ALL SUCH CUSTOM SLABS, THE DOWELS BETWEEN ANY EXISTING CONCRETE PAVEMENT AND ANY ADJACENT PRECAST SLABS, AND BETWEEN CONSECUTIVELY PLACED CUSTOM PRECAST SLABS SHALL BE 1'-0" ON CENTER ACROSS THE ENTIRE
 - B. THE DOWEL BARS OF CUSTOM DESIGNED ISOLATED PRECAST SLABS PLACED ON TANGENT MAINLINE PAVEMENT FOR MID SLAB CRACK REPAIR OR FOR JOINT REPLACEMENT CAN BE EITHER RETROFITTED ACROSS THE JOINT IN ACCORDANCE WITH DETAIL C (SEE SHEET 13), OR FULLY INSERTED INTO THE ADJACENT PAVEMENT IN ACCORDANCE WITH DETAIL G (SEE SHEET 17). THE LOCATIONS AND SPACING OF ALL FIELD RETROFITTED OR FIELD INSERTED DOWEL BARS SHALL COMPLY WITH THE SPECIFIED TOLERANCES AS SHOWN ON SHEETS 4 AND 5. FIELD INSERTION OF DOWEL BARS SHALL BE IN ACCORDANCE WITH NOTE 6(D) ABOVE.
 - C. NO END DOWEL BARS SHALL BE RETROFITTED OR INSERTED WITHIN 8" OR NO MORE THAN 1'-7" FROM THE CORNER OF THE PRECAST SLAB OR ADJOINING CONCRETE PAVEMENT SLAB THAT EXISTS.

LONGITUDINAL TIE BAR STITCHING:

- THE LOCATIONS OF LONGITUDINAL TIE BARS SHALL BE DETERMINED BASED ON THE CRITERIA THAT LONGITUDINAL TIES SHALL BE REQUIRED FOR ANY CLASS B FULL DEPTH REPAIR AND PRECAST REPAIR GREATER THAN 20 FT. IN LENGTH OR WITH ANY PRECAST REPAIR THAT REQUIRES MORE THAN 3 CONSECUTIVE PRECAST SLABS.
- THE SPACING BETWEEN TIE BARS SHALL BE NO LESS THAN 24 INCHES. TIE BAR INSERTIONS SHALL BE NO LESS THAN 24 INCHES FROM ANY EXISTING TRANSVERSE JOINT OR FROM THE LOAD TRANSFER JOINTS OF ANY PLACED PRECAST SLAB OR CAST-IN-PLACE CONCRETE PATCH IN EITHER LANE ADJACENT TO THE LONGITUDINAL JOINT. THE PROCEDURE AND LOCATIONS FOR TIE BAR STITCHING SHALL BE IN ACCORDANCE WITH DETAIL H (SEE SHEET 19).

MATERIALS:

- 10. FOR GRADE SUPPORTED PRECAST SLABS, THE BEDDING AND UNDERSEALING MATERIAL FOR LEVELING AND SUPPORT SHALL CONSIST OF:
 - A. LEVELING SAND SHALL BE 100% CRUSHED FINE AGGREGATE OF AN FA-6, FA-20. OR FA-21 GRADATION AS SPECIFIED IN SECTION 1003 OF THE STANDARD SPECIFICATIONS. THE FINE AGGREGATE SHALL BE REASONABLY FREE FROM AN EXCESS OF SOFT AND UNSOUND PARTICLES AND OTHER OBJECTIONABLE MATTER. THE TYPICAL THICKNESS OF THE LEVELING SAND LAYER SHALL BE APPROXIMATELY 1/4 INCH WITH A MAXIMUM THICKNESS OF 1 INCH.
 - B. FOR GRADE SUPPORTED SLABS, UNDERSEALING GROUT SHALL BE USED AFTER SLAB INSTALLATION TO FILL ALL VOIDS BENEATH THE PRECAST PANELS. THE MIXTURE USED FOR UNDERSEALING GROUT SHALL CONSIST OF PORTLAND CEMENT, FLY ASH, GROUND GRANULATED BLAST FURNACE SLAG (OPTIONAL), A SUPERPLASTICIZER, AND WATER ALL IN ACCORDANCE WITH DIVISION 1000 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED MIX DESIGN FOR UNDERSEALING GROUT TO THE ENGINEER FOR DEPARTMENT APPROVAL PRIOR TO PLACEMENT. THE UNDERSEALING GROUT PRODUCED SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - 1) THE UNDERSEALING GROUT SHALL REMAIN FLUID AND NOT EXHIBIT A RESISTANCE TO FLOW FOR A MINIMUM OF ONE HOUR. THE GROUT MIXTURE SHALL HAVE A FLOW RATE OF 15 TO 25 SECONDS AS MEASURED BY ASTM C 939 TO ENSURE FLUIDITY.
 - ii) THE UNDERSEALING GROUT SHALL ACHIEVE AN INITIAL SET IN LESS THAN 4 HOURS AND A COMPRESSIVE STRENGTH AS MEASURED BY ASTM C 942 OF 300 PSI BEFORE OPENING THE SLAB TO TRAFFIC AND A COMPRESSIVE STRENGTH OF 500 PSI IN 12 HOURS.
- 11. FOR PRECAST SLABS SUPPORTED AND LEVELED BY FLOWABLE FILL PLACED BEFORE SLAB INSTALLATION, THE FLOWABLE FILL SHALL CONSIST OF PORTLAND CEMENT, FLY ASH, COARSE AND/OR FINE AGGREGATES, WATER, AND AIR ENTRAINING ADMIXTURE (OPTIONAL). THE CONTRACTOR SHALL SUBMIT THE PROPOSED MIX DESIGN FOR FLOWABLE FILL TO THE ENGINEER FOR DEPARTMENT APPROVAL PRIOR TO PLACEMENT. THE FLOWABLE FILL PRODUCED SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - PORTLAND CEMENT SHALL BE TYPE 1 CEMENT IN ACCORDANCE WITH SECTION 1001 OF THE STANDARD SPECIFICATIONS.
 - FLY ASH SHALL BE IN ACCORDANCE WITH SECTION 1010 OF THE STANDARD SPECIFICATIONS.
 - FINE AGGREGATE SHALL BE IN ACCORDANCE WITH SECTION 1003 OF THE STANDARD SPECIFICATIONS.
 - COARSE AGGREGATE, IF USED, SHALL BE IN ACCORDANCE WITH SECTION 1004 OF THE STANDARD SPECIFICATIONS WITH A MAXIMUM AGGREGATE SIZE OF
 - IF AN AIR ENTRAINMENT ADMIXTURE IS USED, THE AIR CONTENT OF THE FLOWABLE FILL SHALL NOT EXCEED 35% OF THE FLOWABLE FILL VOLUME.
 - THE COMPRESSIVE STRENGTH OF THE FLOWABLE FILL MIXTURE SHALL NOT BE LESS THAN 50 PSI AT 3 DAYS, NOR LESS THAN 75 PSI OR GREATER THAN 150 PSI AT 28 DAYS.

SCALE: NONE

- vii) THE FINAL SET TIME SHALL BE DETERMINED IN ACCORDANCE WITH ASTM C403 ON A TRIAL BATCH SPECIMEN.
- VIII) THE MAXIMUM THICKNESS OF THE LEVELING FILL SHALL BE 1 INCH.

12. FOR PRECAST SLABS SUPPORTED AND LEVELED BY HIGH-DENSITY FOAM PLACED AFTER SLAB INSTALLATION. THE HIGH-DENSITY FOAM SHALL BE EXPANDING POLYURETHANE FOAM HAVING A WATER INSOLUBLE DILUENT AND SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

ii) THE MAXIMUM THICKNESS OF THE HIGH DENSITY FOAM SHALL BE 1 INCH.

i) DENSITY (LBS./CU. FT.)-AIR RISE 100 MIN. TENSILE STRENGTH (PSI) ASTM D 1623 5.1 ELONGATION (%) 100 MIN. COMPRESSIVE STRENGTH (PSI) ASTM D 1621 (AT YIELD) VOLUME CHANGE (% OF ORGINAL) THE MANUFACTURER SHALL PROVIDE DOCUMENTATION THAT THE LOT(S) OF FOAM MEETS THE SPECIFIED PROPERTIES. MANUFACTURER'S CERTIFICATION SHALL LIST LOT NUMBER(S) AND DOCUMENTATION OF COMPLIANCE WITH THE SPECIFICATION.

- 13. HARDWARE GROUT/ADHESIVES
 - A. FOR DOWEL BAR RETROFITS OR INSERTIONS, FOR THE FILLING OF ANY GROUT PORT HOLES USED FOR HIGH DENSITY FOAM INJECTIONS, FOR THE FILLING OF DOWEL SLOTS AND FOR THE FILLING OF RECESSED LIFTING DEVICES, THE BACKFILL MATERIAL SHALL BE:
 - 1) FIVE STAR HIGHWAY PATCH AS MANUFACTURED BY FIVE STAR PRODUCTS INC. FAIRFIELD, CONNECTICUT.
 - 2) HIGHWAY DB RETROFIT MORTAR AS MANUFACTURED BY DAYTON SUPERIOR, MIAMISBURG, OHIO.
 - 3) A DEPARTMENT APPROVED EQUIVALENT THAT HAS BEEN TESTED AS A RAPID SET CONCRETE PATCHING MATERIAL PER THE AASHTO NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM (NTPEP), WHICH CONFORMS TO ASTM C 928. THE GROUT MATERIAL IS REQUIRED TO PROVIDE A COMPRESSIVE STRENGTH OF 4,000 PSI IN 24 HOURS (OPENING TO TRAFFIC AFTER 3,000 PSI) PER ASTM C 39, EXHIBITS EXPANSION OF LESS THAN 0.10 PERCENT PER ASTM C 531, AND HAS A CALCULATED DURABILITY FACTOR OF 90.0 PERCENT MINIMUM AT THE END OF 300 FREEZE-THAW CYCLES PER ASTM C 666. THE PROPOSED MATERIAL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANY PLACEMENT.
 - B. FOR TIE BAR STITCHING AN APPROVED CHEMICAL ADHESIVE IN ACCORDANCE WITH ARTICLE 1027.01 OF THE STANDARD SPECIFICATIONS SHALL BE USED AS THE ANCHORING MATERIAL FOR STITCHED TIE BARS.
 - C. FOR DOWEL BAR INSERTIONS, AN APPROVED CHEMICAL ADHESIVE OR EPOXY IN ACCORDANCE WITH ARTICLE 1027.01 OF THE STANDARD SPECIFICATIONS SHALL BE USED WITH PLACEMENT IN ACCORDANCE WITH ARTICLE 442.06 (a)(2) OF THE STANDARD SPECIFICATIONS WITH RETENTION DISCS OR WASHERS PLACED AGAINST THE FACE OF THE SLAB.
- 14. EPOXY COATED DOWEL BARS SHALL COMPLY WITH THE REQUIREMENTS OF ARTICLE 1006.06 (b) OF THE STANDARD SPECIFICATIONS. ANY ADDITIONAL MATERIAL REQUIRED FOR DOWEL BAR RETROFITTING SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "DOWEL BAR RETROFIT".
- 15. EPOXY COATED TIE BARS FOR STITCHING SHALL COMPLY WITH THE REQUIREMENTS OF ARTICLE 1006.10 OF THE STANDARD SPECIFICATIONS.
- A CLOSED CELL PLASTIC FOAM BACKER ROD OF $^{3}\!\!/_{8}$ " DIAMETER SHALL BE PINNED OR NAILED TO THE FINISHED BASE AROUND THE PERIMETER OF EACH OPENING BEFORE THE PANELS ARE SET.

- 17. FOR BASE PREPARATION, A MECHANICALLY-CONTROLLED SCREEDING DEVICE OR STRAIGHTEDGE DEVICE CAPABLE OF GRADING FULLY COMPACTED FINE AGGREGATE USED AS THE LEVELING SAND TO A TOLERANCE OF $\frac{1}{8}$ INCH PER 6 FT. LENGTHS OF PLACEMENT.
- 18. CHIPPING HAMMERS SHALL BE HAND HELD AND HAVE A MAXIMUM WEIGHT OF 30 LBS. PRIOR TO ANY HANDLE MODIFICATION WHERE APPLICABLE.
- 19. WITH ANY FIELD RETROFITTING OF DOWEL BARS, A TEMPLATE SHALL BE ROUTINELY USED FOR ALL STANDARD SLABS IN ORDER TO LOCATE AND ALIGN THE SAWCUTS CONSISTENTLY. EITHER SINGLE DIAMOND BLADED SAWS OR DIAMOND BLADED GANG SAWS SHALL BE USED TO MAKE SAW CUTS PERPENDICULAR TO THE TRANSVERSE (NONSKEWED) JOINT LINE TO ALLOW FOR DOWEL BAR PLACEMENTS WITHIN THE FOLLOWING TOLERANCES:
 - \pm $\frac{1}{2}$ INCH OF THE MIDDLE OF THE CONCRETE SLAB DEPTH.
 - $\pm \frac{1}{2}$ INCH OF BEING CENTERED OVER THE TRANSVERSE JOINT
 - ± 1/4" FROM PARALLEL TO THE CENTERLINE OVER 12 INCHES OF THE BAR
 ± 1/4" FROM PARALLEL TO THE ROADWAY SURFACE OVER 12 INCHES OF THE BAR
 SAWCUTS SAWED ACROSS SKEWED JOINTS SHOULD ALLOW EQUAL LENGTH OF THE DOWEL
 BAR TO BE PLACED ACROSS THE TRANSVERSE JOINT. THE ALIGNMENT OF SAWCUTS MUST BE PARALLEL TO THE ROADWAY CENTERLINE, REGARDLESS OF TRANSVERSE JOINT SKEW.

| FILE NAME = | USER NAME = dettmannra | DESIGNED - O. PATEL | REVISED - D.G. 6-14 |
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

| | PREC | AST | CON | ICRI | ETE PA | VEMENT | SLABS | | | F.A. RTE. | SEC | CTION | COUNTY | TOTAL | SHEE NO. |
|--|-------|-----|-----|------|--------|--------|-------|---------|--|---------------------------|-----|----------|--------|-------|----------|
| | | | | | | | | | | 353 | 23 | R-RS | соок | 66 | 48 |
| | | | | | | | | | | BD 5 | 7 | CONTRACT | NO. | 60L94 | |
| | SHEET | 9 | OF | 19 | SHEETS | STA. | | TO STA. | | ILLINOIS FED. AID PROJECT | | | | | |

INSTALLATION GENERAL NOTES

- 20. WITH ANY FIELD INSERTIONS OF DOWEL BARS INTO PREDRILLED HOLES, THE DRILLING MACHINE SHALL BE IN ACCORDANCE WITH ARTICLE 442.03(g) OF THE STANDARD SPECIFICATIONS. HAND HELD DRILLING TOOLS WILL NOT BE ALLOWED.
- 21. THE COMPRESSOR FOR AIR BLASTING SHALL HAVE A MINIMUM CAPACITY OF 120 CFM. THE COMPRESSED AIR SHALL BE FREE FROM OIL AND OTHER CONTAMINANTS.
- 22. CONSOLIDATION EQUIPMENT USED TO CONSOLIDATE THE CONCRETE REPAIR MATERIAL IN THE RETROFITTED DOWEL BAR SLOTS SHALL BE INTERNAL VIBRATORS WITH A MAXIMUM DIAMETER OF 1 INCH AND SHALL HAVE A RESILIENT COVERING THAT WILL NOT DAMAGE THE EPOXY COATED REINFORCEMENT DURING USE. ANY VIBRATORS OR RODS USED FOR CONSOLIDATION OF THE REPAIR MATERIAL FOR NARROW MOUTH SLOTS SHALL HAVE A DIAMETER OF LESS THAN 1 INCH.
- 23. BATCHING EQUIPMENT FOR FLOWABLE FILL SHALL HAVE DEVICES DESIGNED TO MEASURE THE SPECIFIED QUANTITIES OF EACH COMPONENT MATERIAL, AND MIXING SHALL BE OF SUFFICIENT DURATION TO INSURE UNIFORM CONSISTENCY OF THE MIXTURE. NO WATER WILL BE ADDED TO THE FLOWABLE FILL MIXTURE AFTER BATCHING, WATER CONTENT SHALL BE MAINTAINED SUCH THAT COMPRESSIVE STRENGTHS ARE ACHIEVED AND A UNIFORM, FLOWABLE MIXTURE IS DEVELOPED THAT IS ESSENTIALLY SELF-LEVELLING WHEN PLACED.
- 24. EQUIPMENT FOR HIGH-DENSITY FOAM INJECTION SHALL INCLUDE A TRUCK MOUNTED PUMPING UNIT CAPABLE OF INJECTING THE POLYURETHANE BETWEEN THE CONCRETE AND THE SLAB SUBBASE. THE PUMP SHALL BE CAPABLE OF CONTROLLING THE RATE OF RISE OF THE PAVEMENT SLAB. A LEVELING UNIT SHALL BE PROVIDED TO ENSURE THE SLABS ARE RAISED TO AN EVEN PLANE, WITH VERTICAL ELEVATION DIFFERENCE ACROSS ANY CORNER NOT TO EXCEED 1/4 INCH.
- 25. EQUIPMENT FOR MIXING AND PUMPING ANY GROUT/ADHESIVE MATERIALS FOR BEDDING THE SLABS, RETROFITTING DOWEL BARS, OR CROSS STITCHING TIE BARS SHALL BE IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S INSTRUCTIONS AND THE SPECIFICATIONS.

REMOVAL /INSTALLATION:

- 26. PERIMETER SAWCUTTING OF THE REMOVAL AREA AND SAWCUTTING OF THE DOWEL BAR SLOTS SHALL NOT BE CARRIED OUT MORE THAN (1) WEEK IN ADVANCE OF THE EXPECTED DATE OF REPAIR. THE CONTRACTOR SHALL USE A TEMPLATE TO PRECISELY DELINEATE THE LIMITS OF THE AREAS TO BE REPAIRED AS DEFINED ON THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS. WITHIN A TOLERANCE OF $\frac{1}{2}$ INCH. REPAIRS SHALL BE NO LESS THAN THE FULL WIDTH OF A LANE AND THE FULL DEPTH OF CONCRETE.
- 27. REMOVAL OF EXISTING PAVEMENT SHALL BE IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS EXCEPT AS FOLLOWS:
 - A. THE OUTER LIMITS OF THE REPAIR AREA WILL BE SAWCUT FULL DEPTH AND SHALL NOT EXTEND (OVERCUT) BY MORE THAN 10 INCHES INTO THE ADJACENT CONCRETE THAT IS TO REMAIN IN PLACE. OVERCUTS SHALL BE FILLED WITH A PRODUCT ACCEPTABLE TO THE DEPARTMENT. THE OUTER LIMITS FOR REPAIR SHALL BE MARKED OUT BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY SAWCUTTING.

 B. REMOVAL OF CONCRETE WITHIN THE PERIMETER SAWCUTS SHALL BE BY THE LIFT-OUT
 - B. REMOVAL OF CONCRETE WITHIN THE PERIMETER SAWCUTS SHALL BE BY THE LIFT-OI METHOD, AND CONCRETE BETWEEN SAWCUTS FOR DOWEL BAR RETROFITS SHALL BE REMOVED USING JACKHAMMER AND HAND TOOLS. THE CONTRACTOR SHALL ENSURE THAT REMOVALS ARE CARRIED OUT WITHOUT DAMAGING THE ADJACENT CONCRETE PAVEMENT OR ASPHALT SHOULDER OR DISTURBING THE UNDERLYING BASE. HEAVY BREAKING EQUIPMENT SUCH AS HOE RAMS SHALL NOT BE USED IN THE REMOVAL OPERATION. THE CONCRETE PAVEMENT SHALL NOT BE BROKEN IN PLACE.
 - C. IF DURING THE REMOVAL PROCESS THE ADJACENT CONCRETE IN THE SAME LANE OR IN AN ADJACENT LANE THAT CAN ONLY BE REPAIRED DURING NIGHT TIME LANE CLOSURES, IS DAMAGED OR CRACKED DUE TO THE CONTRACTOR'S REMOVAL PROCEDURE, THE DAMAGED AREA SHALL BE CUT BACK FULL DEPTH TO SOUND CONCRETE AND REPLACED WITH PRECAST SLABS AT THE CONTRACTOR'S EXPENSE. IF CONCRETE IN THE ADJOINING LANE IS DAMAGED DURING THE REMOVAL PROCESS AND WEEKEND REPAIRS ARE POSSIBLE, THE DAMAGED CONCRETE SHALL BE REPAIRED IN ACCORDANCE SECTION 442 OF THE STANDARD SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE. ASPHALT SHOULDER DAMAGED DURING THE REMOVAL PROCESS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PROVIDE A PROPOSAL FOR REPAIRS TO THE ENGINEER FOR DEPARTMENT APPROVAL.
 - D. DISPOSAL OF EXCAVATED MATERIALS FROM THE REMOVAL OF CONCRETE SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
 - E. ALL SLURRY FROM SAW CUTTING OPERATIONS SHALL BE THOROUGHLY SCRAPED AND REMOVED FROM THE PAVEMENT SURFACE BEFORE THE PAVEMENT IS OPENED TO TRAFFIC. DISPOSAL OF SLURRY SHALL BE IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AT THE CONTRACTORS EXPENSE.

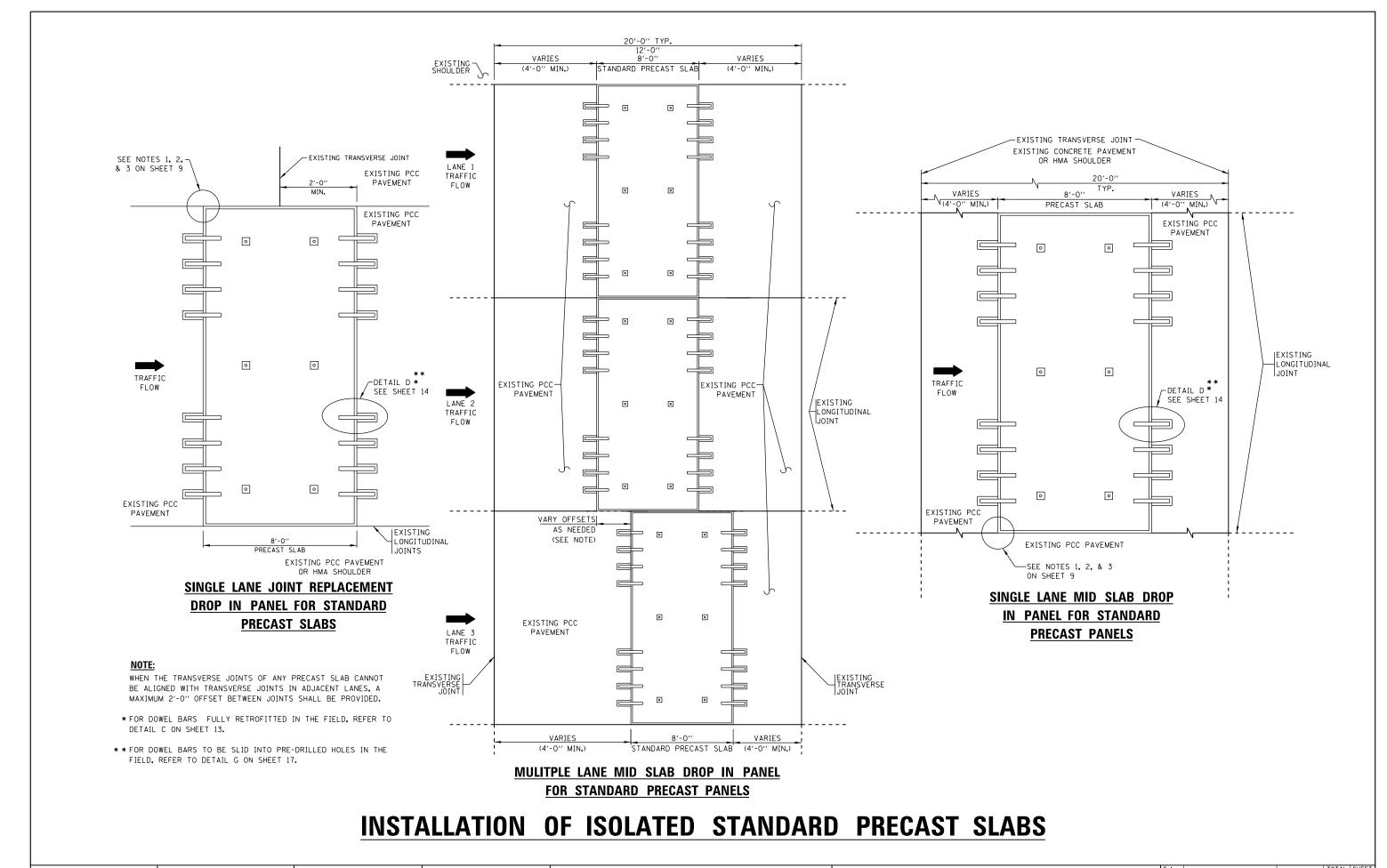
- 28. ANY AREAS OF SUBBASE WHICH ARE BELOW THE REQUIRED ELEVATION OF THE FINISHED SUBBASE, SHALL BE BUILT UP TO GRADE WITH SATISFACTORY COMPACTED GRANULAR MATERIAL.
- 29. LEVELING MATERIAL PLACED BEFORE SLAB INSTALLATION SHALL BE EITHER A FLOWABLE FILL OR A FINE AGGREGATE MEETING THE REQUIREMENTS OF THIS CONTRACT DOCUMENT. FLOWABLE FILL SHALL BE USED AS A LEVELING MATERIAL ONLY ON TANGENT PAVEMENT SECTIONS. GRADE CONTROL SHALL BE ESTABLISHED FOR ALL LEVELING MATERIAL USING STRINGLINES, LASER GUIDANCE, OR OTHER APPROVED METHODS. THE TEMPERATURE OF THE FLOWABLE FILL MIXTURE AS MANUFACTURED AND DELIVERED SHALL BE AT LEAST 50¾, F. NO FLOWABLE FILL WILL BE ALLOWED IF THE ANTICIPATED AIR TEMPERATURE WILL BE 36¾, F OR LESS WITHIN 24 HOURS OF SLAB PLACEMENT. THE FLOWABLE FILL MUST OBTAIN FINAL SET BEFORE THE PAVEMENT MAY BE OPENED TO TRAFFIC.
- 30. WHEN FLOWABLE FILL IS USED AS THE LEVELING MATERIAL WITH SLAB INSTALLATION.
 A PERIMETER BACKER ROD WILL NOT BE REQUIRED AROUND THE PERIMETER OF THE SLAB.
- 31. LEVELING MATERIAL PLACED IMMEDIATELY AFTER SLAB INSTALLATION SHALL ONLY BE A HIGH-DENSITY POLYURETHANE FOAM MEETING THE REQUIREMENTS OF THIS CONTRACT DOCUMENT. PLACEMENT OF POLYURETHANE FOAM SHALL FILL ALL VOIDS BENEATH THE PRECAST PANELS THAT MAY BE PRESENT AFTER PLACING THE PANELS OVER THE PREPARED SUBBASE AND LEVELING AGGREGATE. PLACEMENT OF THE POLYURETHANE SHALL UTILIZE THE UNDERSLAB GROUT PORT HOLES AS SHOWN ON THE PLANS. THE PORT HOLES ARE TO BE FILLED WITH THE DOWEL BAR BACKFILLING MATERIAL.
- 32. FOLLOWING PROPER REMOVAL OF EXISTING PAVEMENTS AND ACCEPTABLE BASE PREPARATION/LEVELING, THE CONTRACTOR SHALL HAVE ALL EQUIPMENT REQUIRED FOR PANEL INSTALLATION ON-SITE PRIOR TO BEGINNING PANEL INSTALLATION. LIFTING AND TRANSPORTING EQUIPMENT SHALL NOT DAMAGE THE PREPARED SUBBASE/LEVELING MATERIALS PRIOR TO OR DURING PANEL INSTALLATION. PRIOR TO SLAB INSTALLATION, ALL VERTICAL SURFACES OF SURROUNDING PAVEMENT SHALL BE COATED WITH A BOND BREAKER SUCH AS FORM OIL OR A CURING COMPOUND.
- 33. PANELS SHALL BE INSTALLED ONE AT A TIME, AND SHALL BE INSTALLED IN SUCH A MANNER THAT THE SUBBASE/LEVELING MATERIAL OR ANY REMAINING PAVEMENT IS NOT DAMAGED DURING INSTALLATION. DURING PLACEMENT OF THE SLABS, USE TIE OFF ROPES TO AVOID CHIPPING OR SPALLING EDGES OF THE PRECAST UNITS. USE WOOD SHIMS OR WEDGES TO GUIDE THE SLAB INTO THE CORRECT POSITION. THE USE OF STEEL PRY BARS THAT CHIP EDGES SHOULD BE AVOIDED.
- 34. IMMEDIATELY AFTER THE SLAB HAS BEEN SET AND LEVELED, SURVEY THE VERTICAL ELEVATION ACROSS ALL CORNERS TO VERIFY THAT THE VERTICAL DIFFERENCE BETWEEN ADJACENT SLABS ACROSS ANY CORNER DOES NOT EXCEED 1/4 INCH. IF THE DIFFERENCE EXCEEDS 1/4 INCH, THAN THE SLAB SHALL BE REMOVED AND RESET OR THE SURFACE SHALL RECEIVE A CORRECTIVE DIAMOND GRIND AT THE CONTRACTORS EXPENSE AFTER ANY REQUIRED BEDDING GROUT OR LEVELING MATERIAL HAS BEEN PLACED UNLESS COMPLETE PROFILE DIAMOND GRINDING OF THE ENTIRE PAVEMENT IS INCLUDED IN THE CONTRACT.
- 35. IF A SET PRECAST SLAB IS OPENED TO TRAFFIC BEFORE ANY GROUTING OPERATIONS, THE CONTRACTOR SHALL MEET THE FOLLOWING REQUIREMENTS:
 - i) DURING INSTALLATION, INCOMPRESSIBLE SHIMS APPROVED BY THE ENGINEER SHALL BE PLACED IN EACH TRANSVERSE AND LONGITUDINAL JOINT TO CORRECT AND MAINTAIN HORIZONTAL ALIGNMENT OF THE SLAB. THE TOTAL THICKNESS OF SHIMS USED IN ANY JOINT SHALL BE EQUAL TO OR LESS THAN 3/6".
 - ii) ASPHALT SHOULDERS SHALL BE BACKFILLED TO MAINTAIN HORIZONTAL ALIGNMENT.
 - iii) WIDE MOUTH DOWEL SLOTS LEFT OPEN SHALL BE TEMPORARILY FILLED WITH A COMPRESSION SEAL APPROVED BY THE ENGINEER TO WITHIN 1 INCH FLUSH WITH THE PAVEMENT SURFACE.
 - iv) NARROW MOUTH DOWEL SLOTS MAY BE LEFT OPEN.
 - V) ALL GROUTING MEETING THE REQUIREMENTS OF THIS CONTRACT SHALL BE COMPLETED WITHIN 48 HOURS OF EACH SLAB'S PLACEMENT.

- 36. PRIOR TO DOWEL BAR PLACEMENT, THE TRANSVERSE JOINT SHALL BE CAULKED WITH A SILICONE SEALANT AT THE BOTTOM AND SIDES OF THE SLOT. THE CAULKING FILLER SHOULD NOT BE PLACED ANY FARTHER THAN ½ INCH OUTSIDE EITHER SIDE OF THE JOINT, AND APPLIED SUFFICIENTLY TO PREVENT ANY PATCHING MATERIAL FROM ENTERING THE JOINT AT THE BOTTOM OR SIDES OF THE SLOT. EXCESSIVE SEALANT AROUND THE SLOT DOES NOT ALLOW THE CONCRETE PATCHING MATERIAL TO BOND TO THE SIDES OF THE SLOT, BEFORE PLACEMENT, THE DOWEL BARS SHOULD BE LIGHTLY COATED WITH PARTING COMPOUND AND FULLY RETROFITTED DOWEL BARS PLACED ON A CHAIR THAT WILL PROVIDE A MINIMUM ½ INCH CLEARANCE BETWEEN THE BOTTOM OF THE DOWEL AND THE BOTTOM OF THE SLOT, FOR ANY DOWEL BARS INSERTED INTO PREDRILLED EPOXIED HOLES, AN APPURATUS CAPABLE OF MAINTAINING VERTICAL ALIGNMENT OF THE DOWEL AND TO PROVIDE A MINIMUM ½ INCH CLEARANCE BETWEEN THE BOTTOM OF THE DOWEL AND THE BOTTOM OF THE SLOT SHAL BE PROVIDED BY THE CONTRCTOR, A ¾ INCH THICK FOAM INSERT SHOULD BE PLACED AT THE MODLE OF THE DOWEL TO MAINTAIN THE TRANSVERSE JOINT. THE FOAM INSERT SHOULD FIT TIGHTLY AROUND THE DOWEL, THE BOTTOM, AND THE BOTTOM, AND THE EDGES OF THE SLOT, AND BE UP TO THE SUFFACE OF THE EXISTING CONCRETE SURFACE. THE FOAM INSERT SHOULD BE CAPABLE OF REMAINING IN A VERTICAL POSITION AND HELD TIGHTLY TO ALL EDGES DURING PLACEMENT OF THE PATCH, IF FOR ANY REASON THE FOAM INSERT SHIFTS DURING PLACEMENT OF THE POTCH, IF FOR ANY REASON THE FOAM INSERT SHIFTS DURING PLACEMENT OF THE CONTRACTOR'S EXPENSE.
- 37. PLACEMENT OF HARDWARE GROUT/ADHESIVES
 - A, DOWEL BARS THE PLACEMENT OF ANY APPROVED BACKFILL MATERIAL FOR DOWEL BAR RETROFITTING OR FOR DOWEL BAR INSERTIONS SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "DOWEL BAR RETROFIT". THE PAVEMENT WILL NOT BE OPENED TO TRAFFIC UNTIL THE BACKFILL MATERIAL AROUND THE PAVEMENT HARDWARE OBTAINS 3,000 PSI COMPRESSIVE STRENGTH, ALL CONCRETE SURFACES WITHIN THE SLOT SHALL BE SOLID, FREE FROM LOOSE OR UNSOUND FRAGMENTS. BEFORE GROUTING, SANDBLAST ALL EXPOSED SURFACES IN THE DOWEL BAR SLOT FOLLOWED BY AIR BLASTING TO REMOVE ANY DUST, RESIDUE OR DEBRIS LEFT IN THE SLOT. UPON COMPLETION OF THE RETROFITTING WORK, THE GROUT OR CONCRETE PATCH MATERIAL SHALL FILL ALL SLOTS TO THE SURFACE OF THE EXISTING PAVEMENTS. ANY SLOTS INSUFFICIENTLY FILLED BELOW EXISTING PAVEMENT SURFACES SHALL BE REDONE AT THE CONTRACTOR'S EXPENSE.

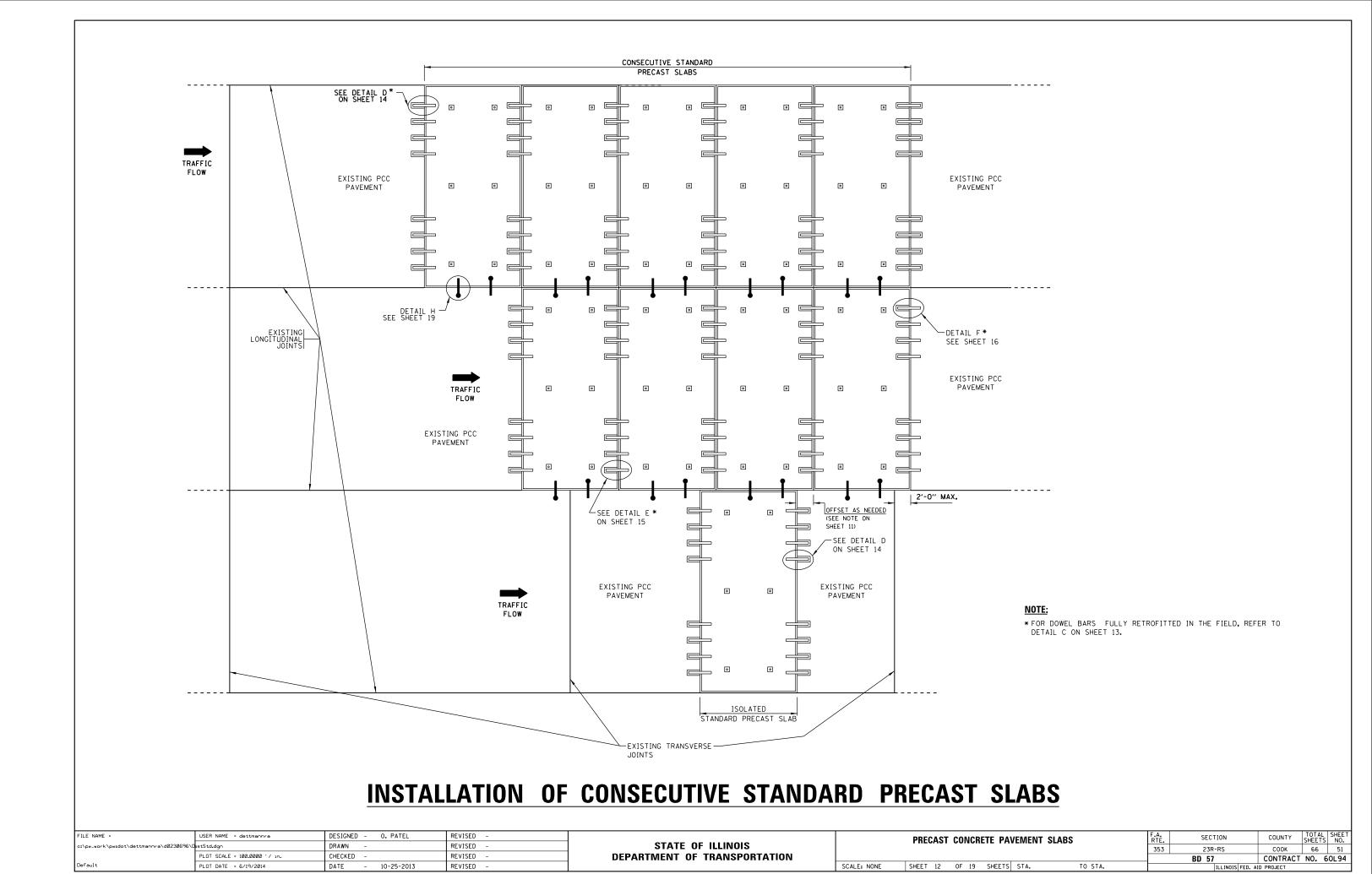
 B. TIE BARS A FOAM BOARD GASKET SHALL BE INSERTED INTO THE LONGITUDINAL JOINT AT THE STITCHING LOCATION AND THE TIEBAR HOLE PREDRILLED THROUGHT THE
 - B. TIE BARS A FOAM BOARD GASKET SHALL BE INSERTED INTO THE LONGITUDINAL JOINT AT THE STITCHING LOCATION AND THE TIEBAR HOLE PREDRILLED THROUGHT THE GASKET. AFTER PREDRILLED HOLES ARE AIR BLASTED, PRESSURE INJECT THE APPROVED ADHESIVE INTO THE PREDRILLED HOLES, LEAVING SOME VOLUME FOR THE BAR TO OCCUPY THE HOLE. INSERT THE TIEBAR INTO THE HOLE, LEAVING ABOUT I INCH FROM THE TOP OF THE TIE BAR TO THE PAVEMENT SURFACE. REMOVE EXCESS ADHESIVE AND FINISH FLUSH WITH THE PAVEMENT SURFACE.
 - C. FILL LIFTING INSERT HOLES AND GROUT PORTS WITH THE APPROVED GROUT USED FOR DOWEL BAR RETROFITTING.
- 38. PLACEMENT OF UNDERSEALING GROUT SHALL FILL ALL VOIDS BENEATH THE PRECAST PANELS AND GROUT PORT HOLES THAT MAY BE PRESENT AFTER PLACING THE PANELS OVER THE PREPARED SUBBASE AND LEVELING AGGREGATE. PLACEMENT OF THE UNDERSEALING GROUT SHALL UTILIZE THE UNDERSLAB GROUT PORT HOLES AS SHOWN ON THE PLANS. PLACEMENT OF UNDERSEALING GROUT SHALL NOT OCCUR UNTIL AFTER ALL HARDWARE DEVICES ARE PLACED AND GROUTED. IF UNDERSEALING GROUT FILLS ANY LONGITUDINAL JOINT TO WITHIN 9" OF THE SLAB SURFACE, A 9" SAW CUT OF THE JOINT SHALL BE REOUIRED DURING INSTALLATION. IF UNDERSEALING GROUT FILLS ANY TRANSVERSE JOINT TO WITHIN 9" OF THE SLABE SURFACE, THEN A 9" SAW CUT OF THE JOINT SHALL BE REOUIRED FOLLOWED BY REMOVAL AND FULL RETROFITTING OF ALL SEVERED DOWEL BARS ACROSS THE JOINT.
- 39. AFTER INSTALLATION AND GROUTING IS COMPLETED ALL LONGITUDINAL AND TRANSVERSE JOINTS SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 420.12.

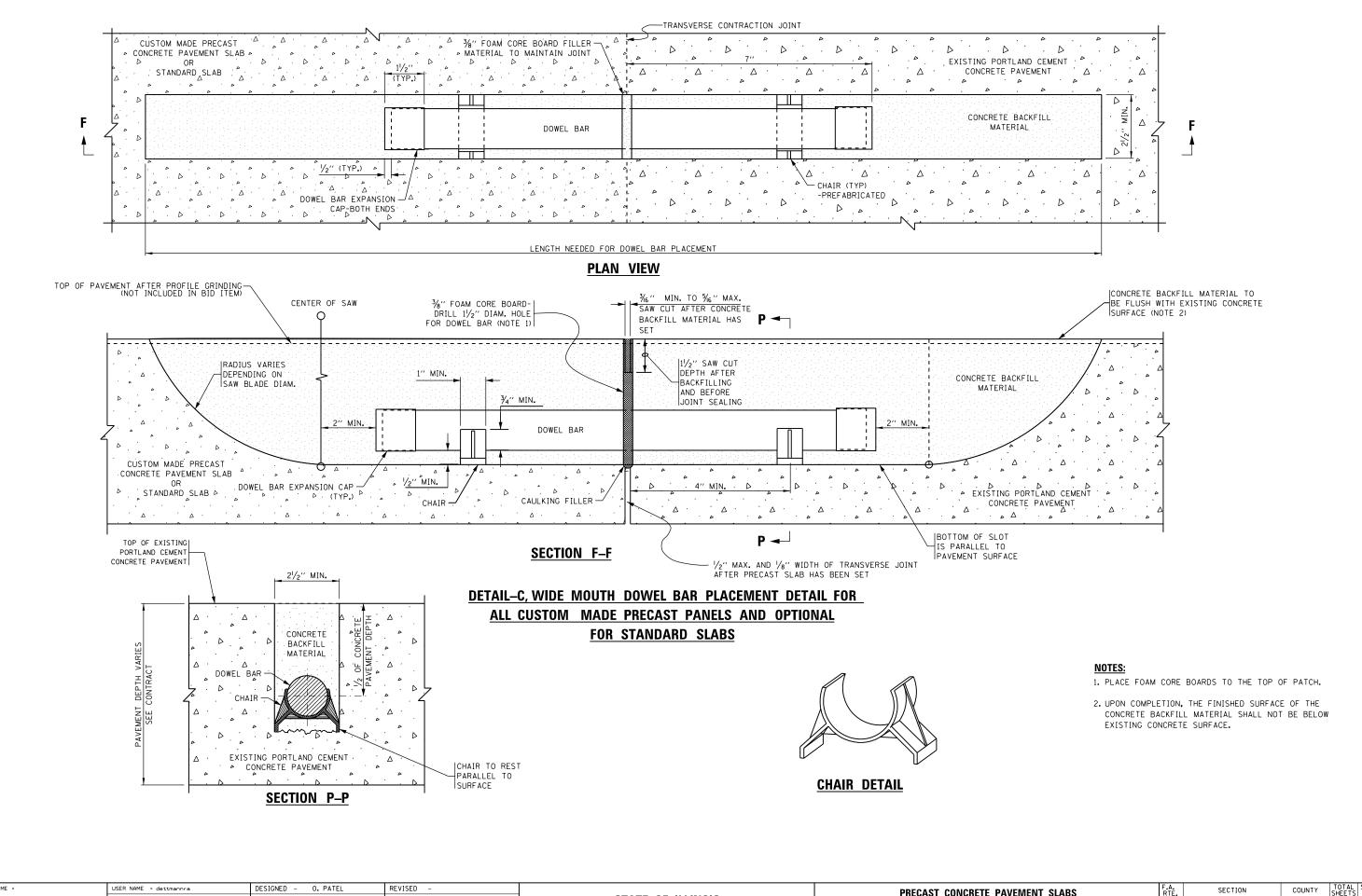
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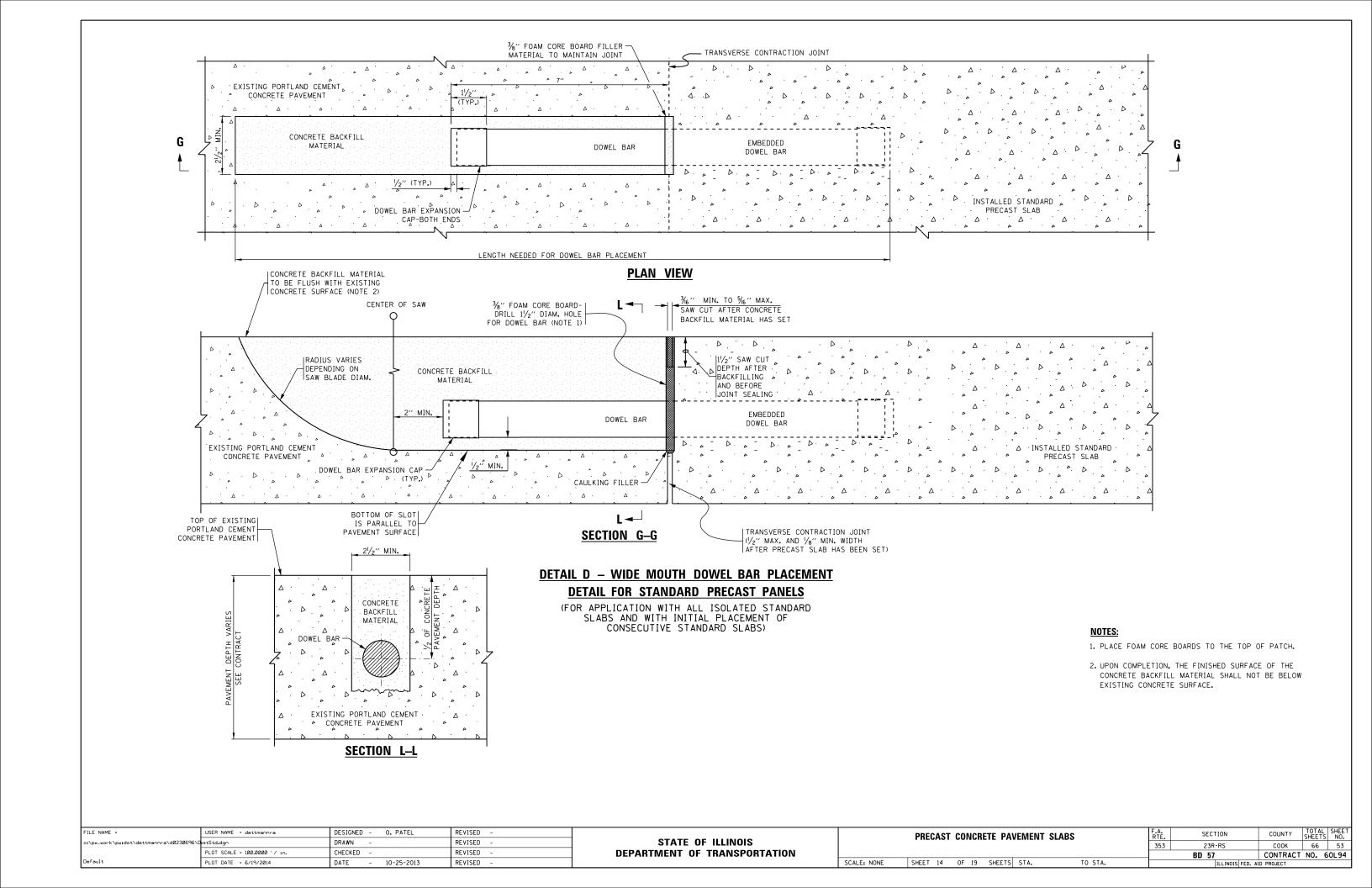


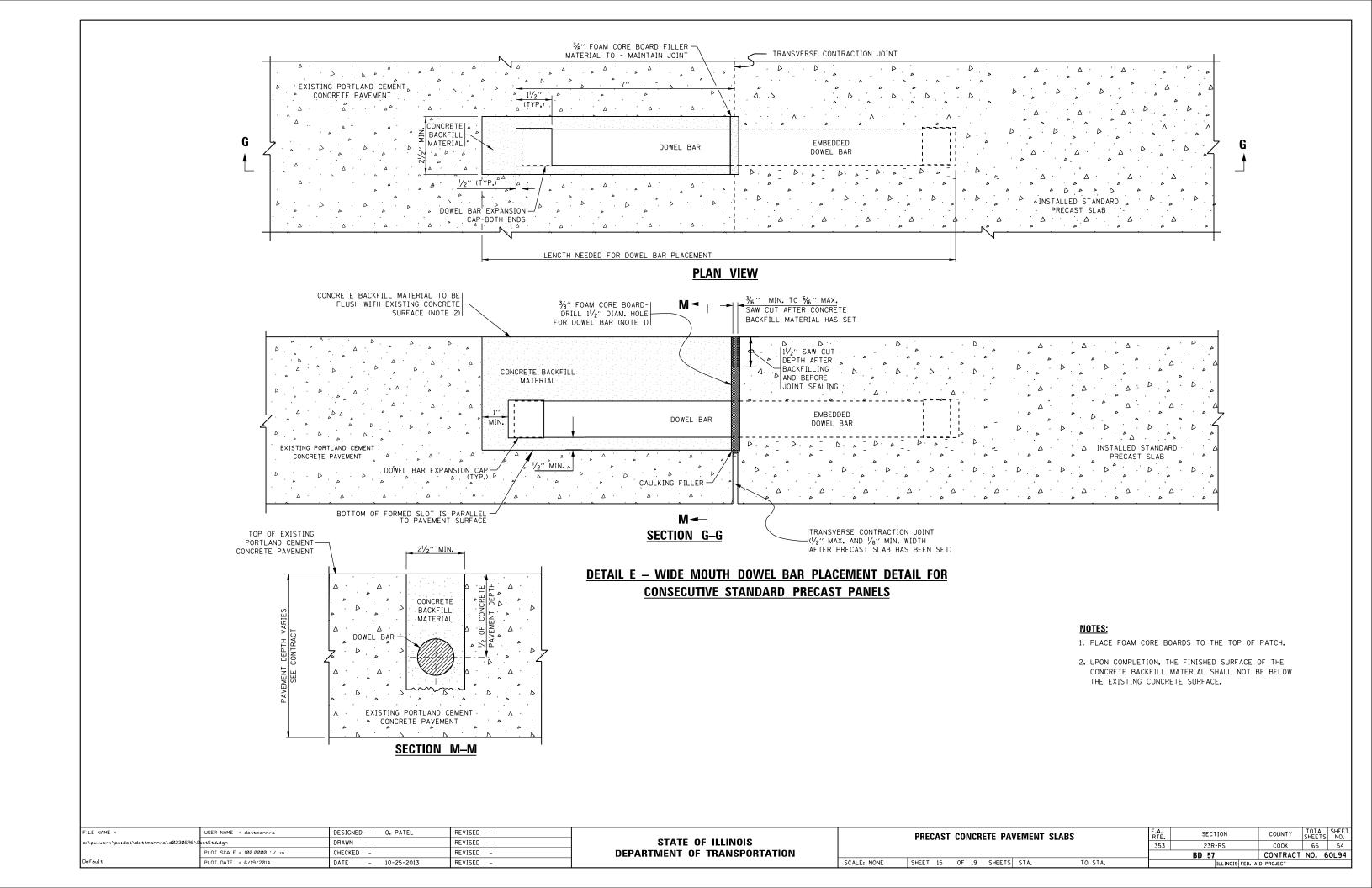
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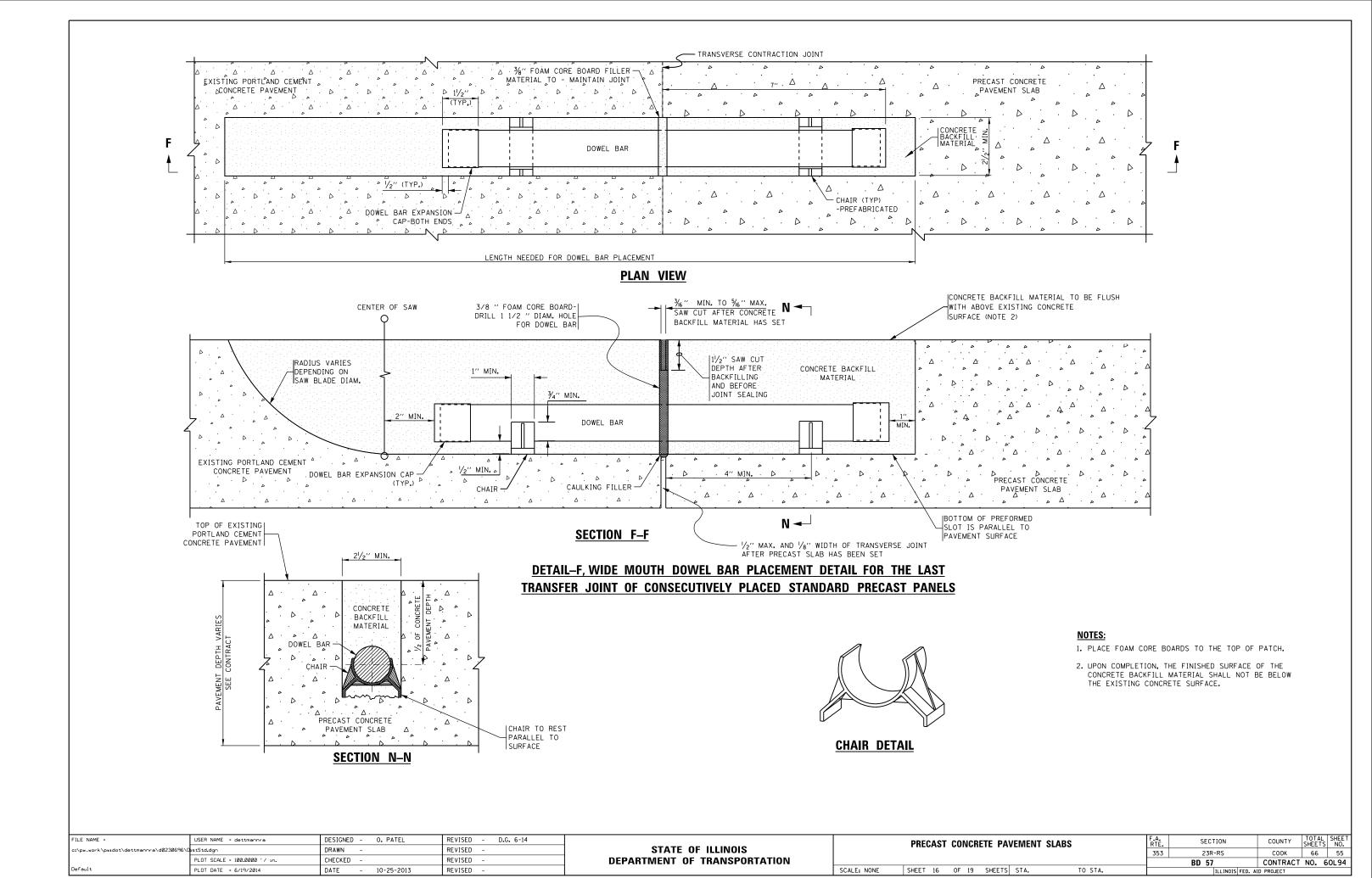


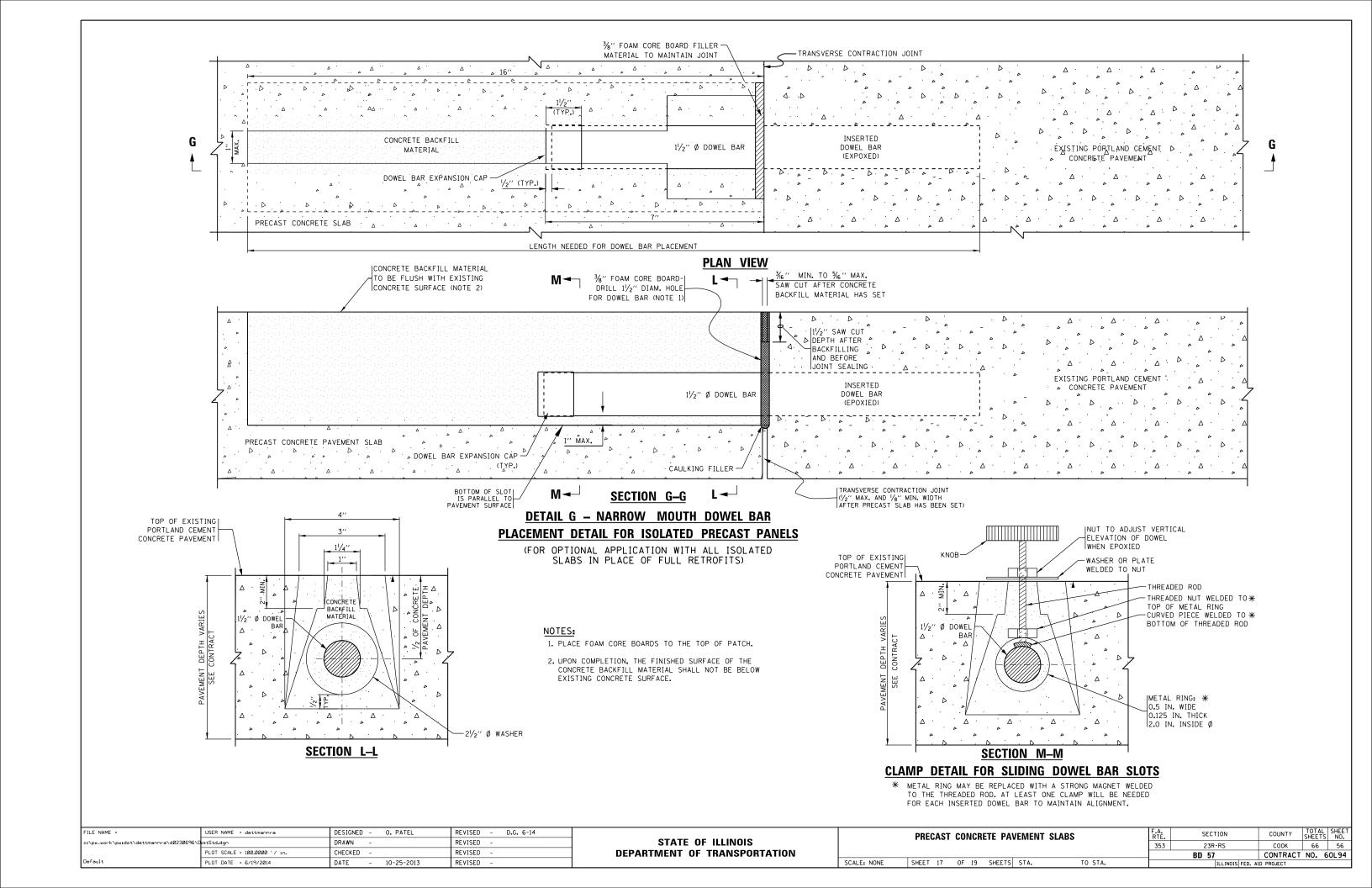


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RAMP LANE NO .: MARK NO.: LANE TYPE:

MAINLINE LANE NO.: LANE NO. 1 IS ADJACENT TO MEDIAN SHOULDER. LANE NO. 1 IS ADJACENT TO THE BUILDING. EACH PANEL SHALL BE INDIVIDUALLY MARKED FOR CORRECT PLACEMENT. "OUT" IN THIS COLUMN INDICATES OUTSIDE LANE. "MID" IN THIS COLUMN INDICATES MIDDLE LANE.

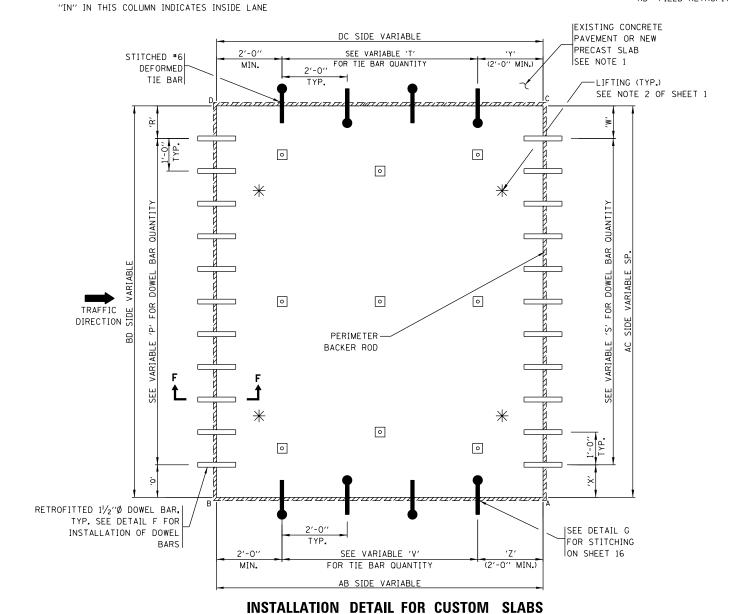
* <u>LEGEND</u>

DB= DOWEL BAR EMBEDDED

DS= DOWEL SLOT

ST= SLOT OR HOLE FOR STITCHED TIE BAR

RD= FIELD RETROFITTED DOWEL BARS



NOTES:

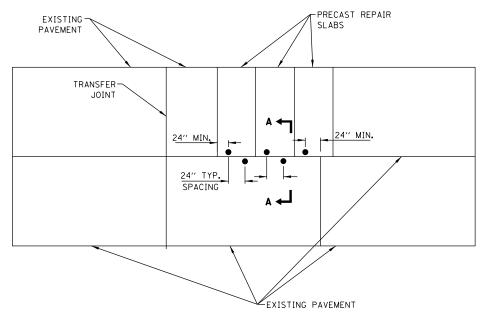
- 1. NO STITCHING OF DEFORMED TIE BARS IS REQUIRED WHEN PRECAST SLAB IS PLACED ADJACENT TO HMA SHOULDER.
- 2. TIE BAR STITCHING SHALL BE REQUIRED WHEN THE REPAIR AREA LENGTH EXCEEDS 20 FT. OR WHEN MORE THAN 3 PRECAST SLAB ARE PLACED IN SEQUENCE.

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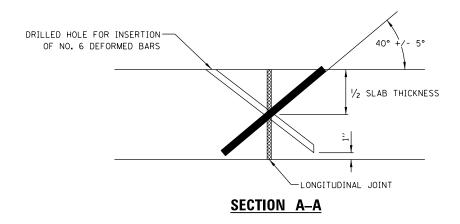
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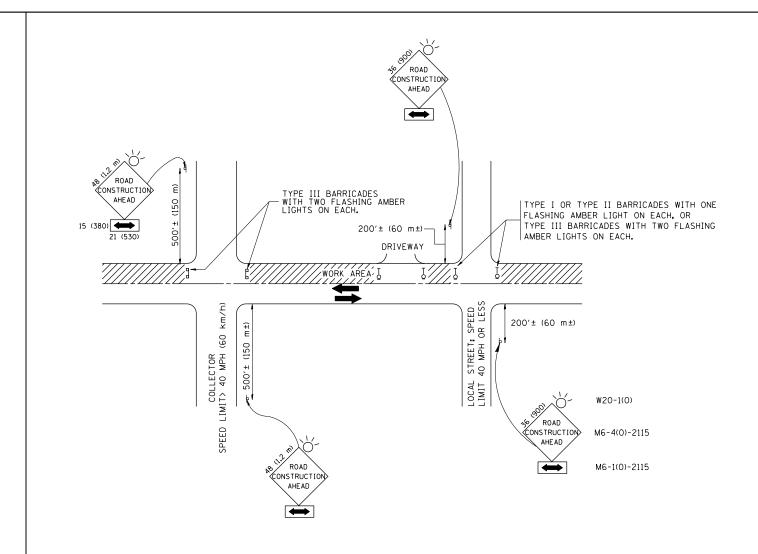
<u>DETAIL H - LONGITUDINAL TIE BAR</u> <u>STITCHING FOR PRECAST PANELS</u>



NOTES FOR TIE BAR STITCHING:

- I. DRILL HOLES THAT ARE ORIENTED AT 40° ± 5° ANGLE TO THE PAVEMENT SURFACE SO THAT THEY INTERSECT THE LONGITUDINAL CRACK OR JOINT AT ABOUT MID-DEPTH. (IT IS IMPORTANT TO START DRILLING THE HOLE AT A CONSISTENT DISTANCE FROM THE JOINT, IN ORDER TO CONSISTENTLY CROSS AT THE MID-DEPTH OF THE SLAB.)
- HOLE CENTERLINES ARE PERPENDICULAR TO THE JOINT(IN PLAN VIEW) AT EACH LOCATION BEING DRILLED.
- 3. SELECT A DRILL THAT MINIMIZES DAMAGE TO THE CONCRETE SURFACE, SUCH AS A HYDRAULIC POWERED DRILL. SELECT A DRILL DIAMETER NO MORE THAN 0.375 IN. LARGER THAN THE TIE-BAR DIAMETER. CHOOSE A GANG-MOUNTED DRILL IF A HIGHER PRODUCTIVITY IS NEEDED.
- 4. DRILL HOLES WITH NO LESS THAN A 24 INCH BAR SPACING, ADJACENT HOLES ARE DRILLED IN OPPOSITE DIRECTIONS ACROSS THE JOINT. THE HOLES AND INSERTED TIE BAR SHALL BE NO LESS THAN 24 INCHES FROM ANY EXISTING TRANSVERSE JOINT OR ANY PRECAST OR REPAIR TRANSFER JOINT.
- 5. HOLE BOTTOMS ARE NO MORE THAN 1 INCH FROM THE SLAB BOTTOM.
- 6. AIR BLOW THE HOLES TO REMOVE DUST AND DEBRIS AFTER DRILLING.
- 7. INJECT ADHESIVE INTO THE HOLE, LEAVING SOME VOLUME FOR THE BAR TO OCCUPY THE HOLE. (POURING THE ADHESIVE IS ACCEPTABLE FOR SMALL QUANTITIES.)
- 8. INSERT THE NO. 6 EPOXY COATED DEFORMED TIE BAR INTO THE HOLE, LEAVING ABOUT 1 IN. FROM THE TOP OF BAR TO THE PAVEMENT SURFACE. DEFORMED TIE BARS SHALL BE EPOXY COATED.
- 9. REMOVE EXCESS ADHESIVE AND FINISH FLUSH WITH THE PAVEMENT SURFACE.

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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- 0) ONE ROAD CONSTRUCTION AHEAD SIGN $36 \times 36 \ (900 \times 900)$ WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROLLTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

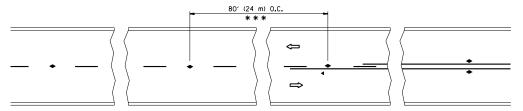
B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

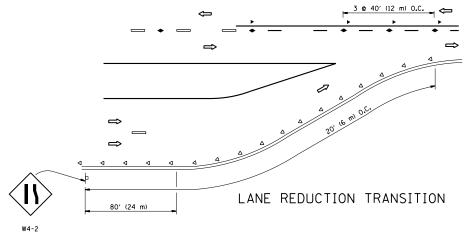
All dimensions are in millimeters (inches) unless otherwise shown.

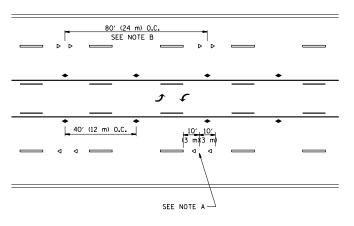
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



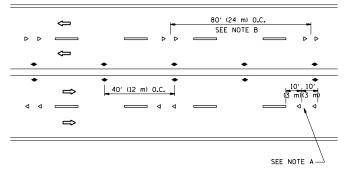
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

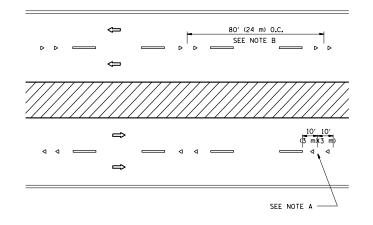




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

---- YELLOW STRIPE

---- WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

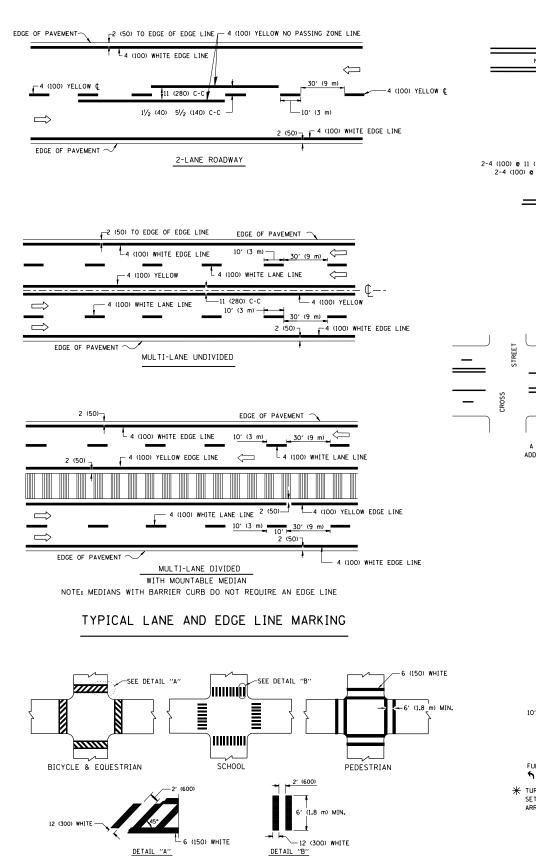
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD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

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

LEFT TURN

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

| FILE NAME = | USER NAME = dettmannra | DESIGNED - | REVISED - T. RAMMACHER 09-19-94 | | TYPICAL APPLICATIONS | F.A.P. RTE. | SECTION | COUNTY TOTAL SHEET SHEET NO. |
|--|------------------------------|------------|---------------------------------|------------------------------|--|----------------|------------------------------|------------------------------|
| c:\pw_work\pwidot\dettmannra\d0230696\Di | stStd.dgn | DRAWN - | REVISED -T. RAMMACHER 03-12-99 | STATE OF ILLINOIS | | 353 | 23R-RS | COOK 66 60 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED -T. RAMMACHER 01-06-00 | DEPARTMENT OF TRANSPORTATION | RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) | ' | TC-11 | CONTRACT NO. 60L94 |
| | PLOT DATE = 6/13/2014 | DATE - | REVISED - C. JUCIUS 09-09-09 | | SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROA | AD DIST. NO. 1 ILLINOIS FED. | |



TYPICAL CROSSWALK MARKING

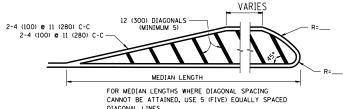
2-4 (100) YELLOW • 11 (280) C-C

NO DIAGONALS

4' (1.2 m) OUTSIDE TO OUTSIDE OF LINES

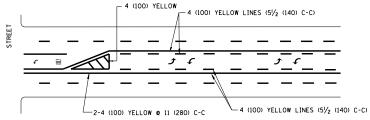
2-4 (100) YELLOW • 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY

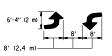


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

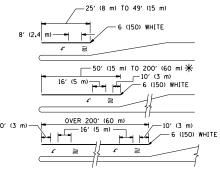


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

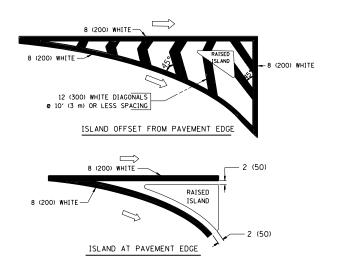


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) ONLY AREA = 20.8 SO. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



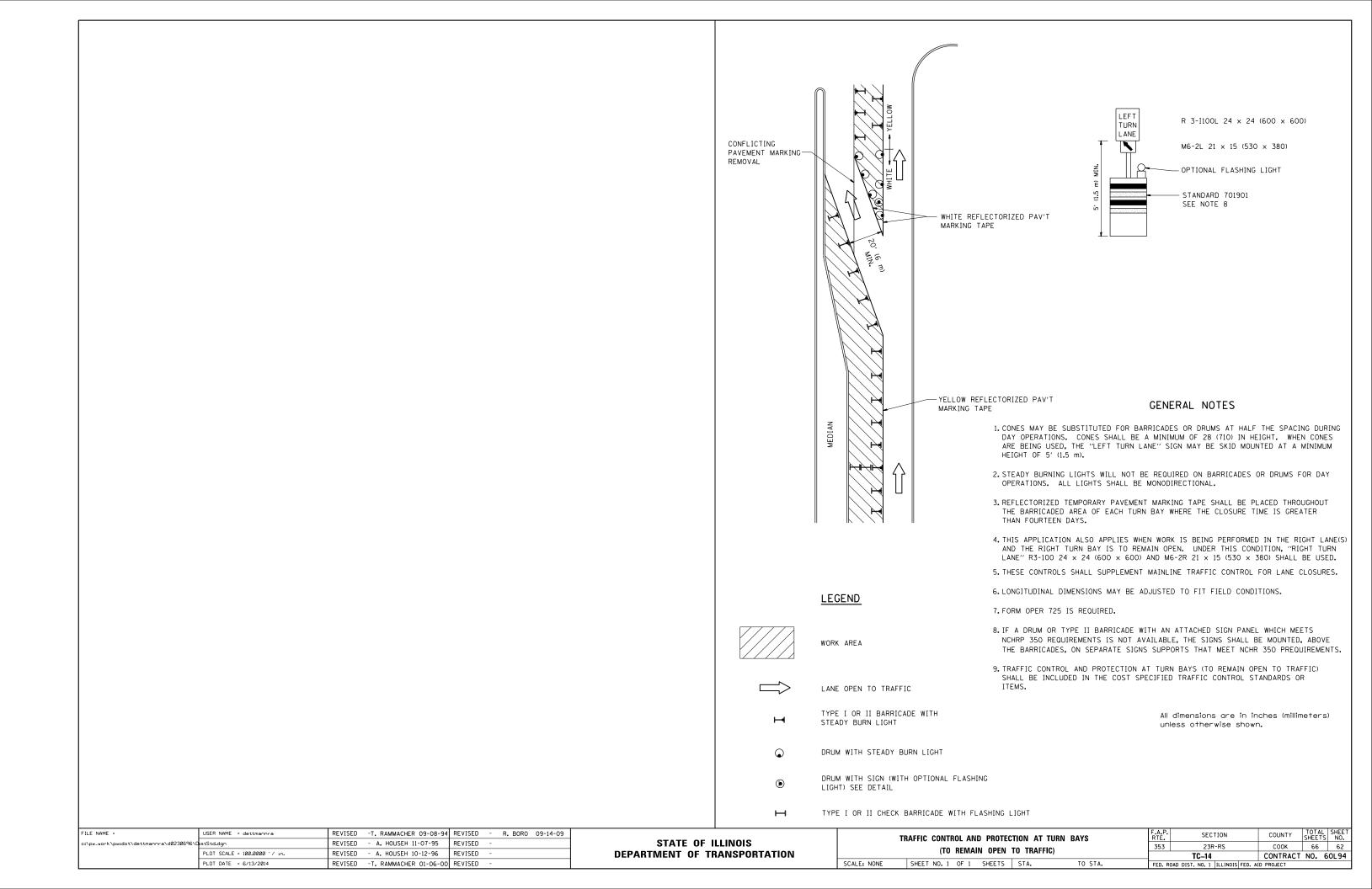
TYPICAL ISLAND MARKING

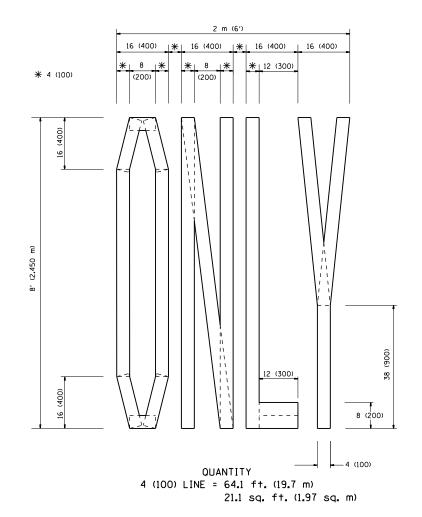
| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|---|---|------------------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOL ID SOL ID | YELLOW YELLOW | 5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT 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 |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| GORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | 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 (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²) |
| SHOULDER DIAGONALS | 12 (300) © 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h)) |

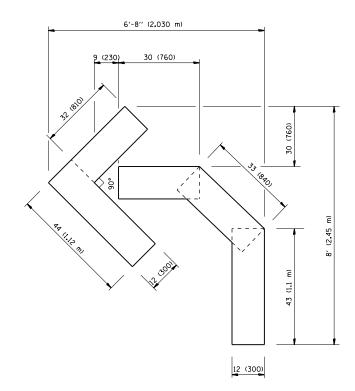
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

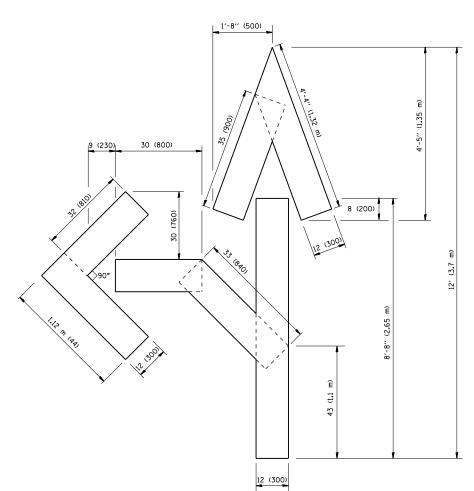
| FILE NAME = | USER NAME = dettmannra | DESIGNED - EVERS | REVISED -T. RAMMACHER 10-27-94 | | | DISTRICT ONE | | F.A.P. | SECTION | COUNTY | TOTAL | SHEET |
|--|------------------------------|------------------|--------------------------------|------------------------------|-------------|------------------------------|---------|-------------|----------------------------|------------|-------|-------|
| c:\pw_work\pwidot\dettmannra\d0230696\ | DistStd.dgn | DRAWN - | REVISED -C. JUCIUS 09-09-09 | STATE OF ILLINOIS | | | | 353 | 23R-RS | соок | 66 | 61 |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | TYPICAL PAVEMENT MARKINGS | | | TC-13 | CONTRACT | NO. E | OL94 |
| | PLOT DATE = 6/13/2014 | DATE - 03-19-90 | REVISED - | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. | TO STA. | FED. ROAD D | IST. NO. 1 ILLINOIS FED. A | ID PROJECT | | |







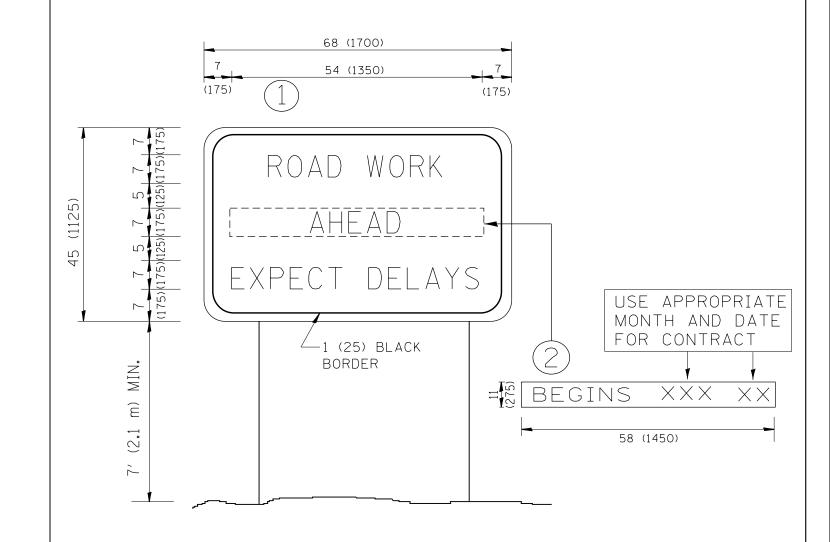
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



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

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

| FILE NAME = | USER NAME = dettmannra | DESIGNED - | REVISED -T. RAMMACHER 06-05-96 | | | PAVEMENT MARKING LETTER | e vin cambu | ni e | F.A.P. | SECTION | COUNTY | TOTAL SHEETS | SHEET |
|--|-------------------------------|-----------------|--------------------------------|------------------------------|-------------|-------------------------|-------------|---------|-----------|------------------|-----------------------|-----------------|-------|
| c:\pw_work\pwidot\dettmannra\d0230696\ | DistStd.dgn | DRAWN - | REVISED -T. RAMMACHER 11-04-97 | STATE OF ILLINOIS | | | | 123 | 353 | 23R-RS | соок | 66 | |
| | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED -T. RAMMACHER 03-02-98 | DEPARTMENT OF TRANSPORTATION | | FOR TRAFFIC ST | AGING | | | TC-16 | | CT NO. 6 | |
| | PLOT DATE = 6/13/2014 | DATE - 09-18-94 | REVISED -E. GOMEZ 08-28-00 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | FED. ROAD | DIST. NO. 1 ILLI | NOIS FED. AID PROJECT | | |



NOTES:

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

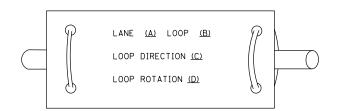
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

| Ī | FILE NAME = | USER NAME = dettmannra | DESIGNED - | REVISED - R. MIRS 09-15-97 | · | | ARTERIAL ROAD | | F.A.P. | SECTION | COUNTY | TOTAL : | SHEET NO. |
|------|---|-------------------------------|------------|--------------------------------|-------------------|-------------|------------------------------|---------|-----------|---------|----------|---------|--------------|
| - - | c:\pw_work\pwidot\dettmannra\d0230696\E | ıstStd.dgn | DRAWN - | REVISED - R. MIRS 12-11-97 | STATE OF ILLINOIS | | | | 353 | 23R-RS | соок | 66 | 64 |
| | | PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED -T. RAMMACHER 02-02-99 | | | INFORMATION SIGN | | | TC-22 | CONTRACT | NO. 6/ | 0L94 |
| | | PLOT DATE = 6/13/2014 | DATE - | REVISED - C. JUCIUS 01-31-07 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. | TO STA. | FED. ROAD | | | | |

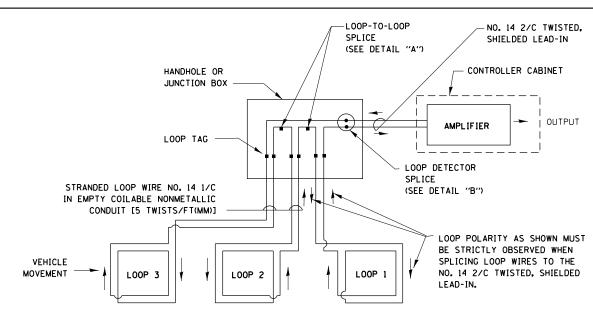
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

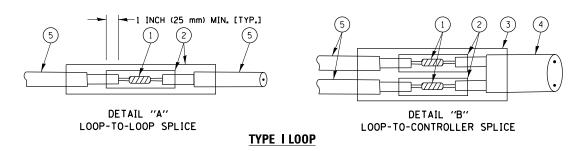


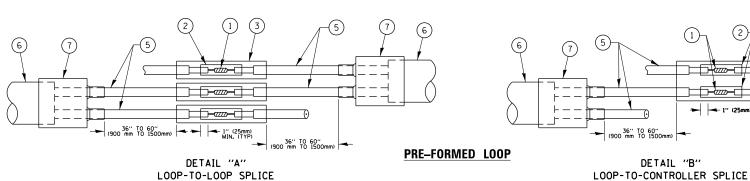
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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





LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

SCALE: NONE

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

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

→ 1" (25mm) MIN, (TYP)

| FILE NAME = | USER NAME = dettmannra | DESIGNED | | DAD | REVISED | | DAG 1-1-14 |
|---|------------------------------|----------|---|----------|---------|---|------------|
| c:\pw_work\pwidot\dettmannra\d0230696\D | ıstStd.dgn | DRAWN | - | BCK | REVISED | - | |
| | PLOT SCALE = 100.0000 '/ in. | CHECKED | - | DAD | REVISED | - | |
| | PLOT DATE = 6/13/2014 | DATE | - | 10-28-09 | REVISED | - | |

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

| DISTRICT ONE | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|----------------|-------------------------------|------------|-----------------|--------------|
| STANDARD TRAFFIC SIGNAL DESIGN DETAILS | 353 | 23R-RS | COOK | 66 | 65 |
| STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | TS-05 | CONTRACT | NO. 6 | 0L94 |
| SHEET NO. 2 OF 7 SHEETS STA. TO STA. | EEU DO | AD DIST NO 1 THE INDIS EED AT | D PPO IECT | | |

LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER Ê (1.5 m) (1.8 m) (1.5 m) 1" (25 mm) UNI DUCT-TRENCHED TO E/P •• (3.0 m) (3.0 m) * = (600 mm)* * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS. ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)

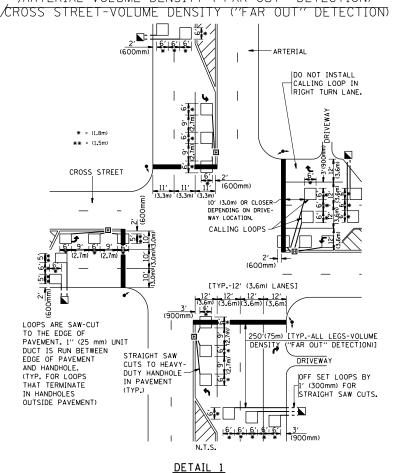
LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETICS AND DESIGN OF TRAFFIC SIGNALS, HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE, REFER TO STANDARD BI4001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN. TRENCHED 1" (25 mm) PERPRENDICULAR TO MEDIAN (TYP.) ** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

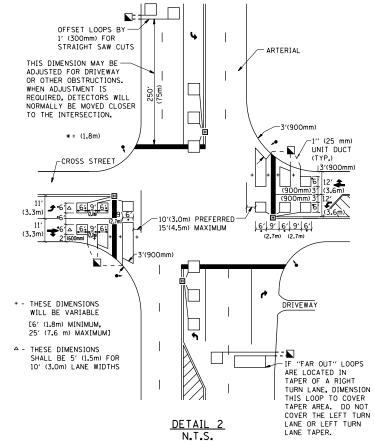
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) * = (600 mm) * = (600 mm) * = (600 mm) | STRAIGHT SAW CUT TO HEAVY DUTY HANDHOLE (TYP.) PLACE HEAVY DUTY HANDHOLE BETWEEN FIRST AND SECOND LOOP AS SHOWN.

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





SCALE: NONE

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIFLDED
- * 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, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

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

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

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

JOTE.

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.

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| | PLOT SCALE = 100.0000 ' / in. | CHECKED - R.K.F. | REVISED - |
| | PLOT DATE = 6/13/2014 | DATE - | REVISED - |

N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| DISTRICT 1 - DETECTOR LOOP INSTALLATION | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|--|---------|--------|--------------------|--------------|
| DETAILS FOR ROADWAY RESURFACING | 353 | 23R-RS | COOK | 66 | 66 |
| DETAILS FOR HOADWAY RESUM ACING | | TS-07 | | CONTRACT NO. 60L94 | |
| SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 TILLINGIS FED. AID PROJECT | | | | |