

| | | | | |
|---------------------|----------------|--------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 1 |
| FED. ROAD DIST. NO. | ILLINOIS | CONTRACT NO. 61D62 | | |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID HIGHWAY

COUNTY FARM ROAD (FAP 362) RESURFACING /INTERSECTION IMPROVEMENTS SECTION 14-00179-31-SP PROJECT NO. RS-HSIP-0043(033) DUPAGE COUNTY C-91-302-15

INDEX OF SHEETS
SEE SHEET 2

HIGHWAY STANDARDS
SEE SHEET 2

DISTRICT 1 DETAILS
SEE SHEET 2

DESIGN DESIGNATION

COUNTY FARM ROAD: OTHER PRINCIPAL ARTERIAL

DESIGN SPEED: COUNTY FARM ROAD = 50 MPH (40 MPH POSTED SOUTH OF GREENBROOK)

EXISTING ADT: COUNTY FARM ROAD: 27,300 (SOUTH OF GREENBROOK BLVD)
19,400 (NORTH OF GREENBROOK BLVD)



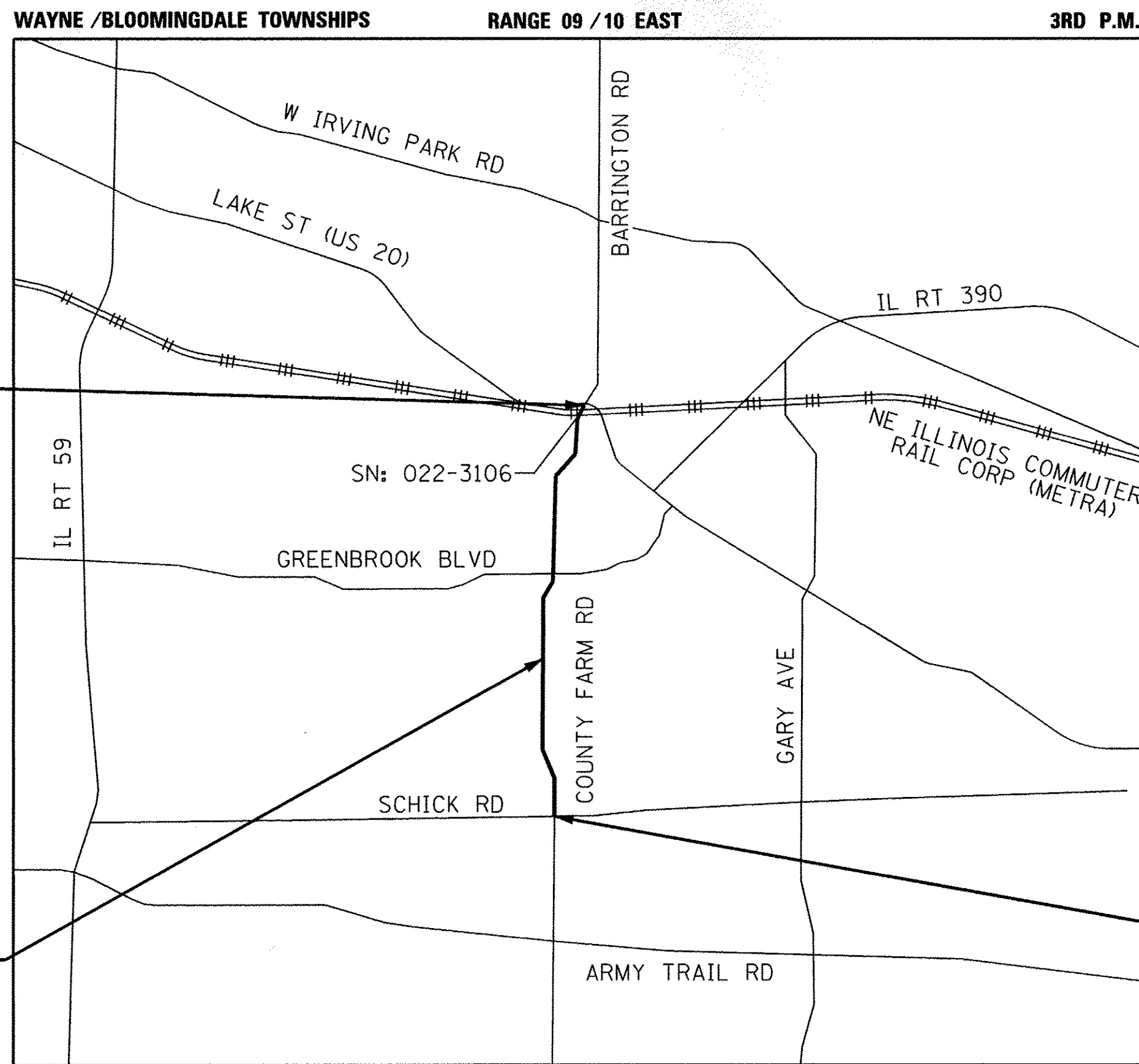
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Approved: *Christopher Snyder* 3/8/17
DATE

DuPage County Division of Transportation, County Engineer

Passed: *March 9, 2017* DATE
Christopher Host
District Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: *March 8, 2017* DATE
Ann Marie J. Douglas
REGIONAL ENGINEER



PROJECT ENDS
STA 248+51.57
COUNTY FARM RD

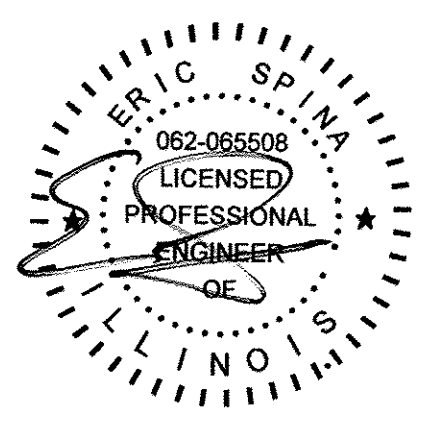
PROJECT BEGINS
STA 114+24.37
COUNTY FARM RD

EXISTING SN: 022-7452
PRECAST PRESTRESSED CONCRETE DECK BEAM
BRIDGE REHABILITATION, SINGLE SPAN @ 59'-0"
52'-0" ROADWAY, SKEW = 20°
STA 165+59.41 TO STA 166+30.02

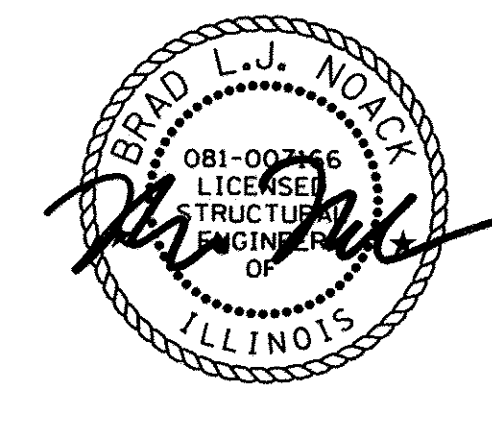
LOCATION MAP
(NOT TO SCALE)

PROJECT LENGTH

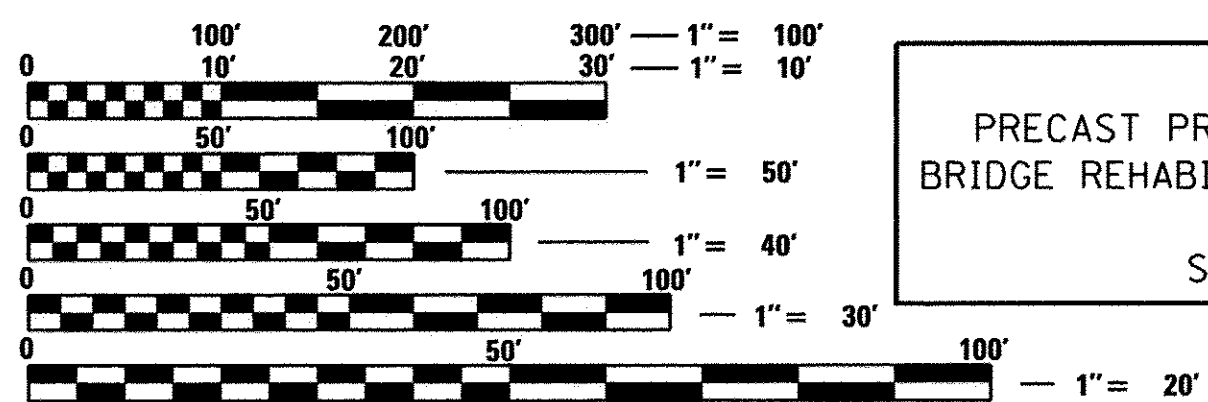
GROSS LENGTH (COUNTY FARM RD) = 13,427 FT = 2.54 MILE
NET LENGTH = 13,427 FT = 2.54 MILE



DATE: 3/8/2017
SEAL EXPIRES: 11/30/2017
APPLIES TO SHEETS
1 - 67, 83 - 99



DATE: 3/8/2017
SEAL EXPIRES: 11/30/2018
APPLIES TO SHEETS
68 - 82



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

Ciorba Group, Inc.

DESIGN FIRM
REGISTRATION NUMBER
184-001016

CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE
CHICAGO, ILLINOIS 60656 ☎ (773) 775-4009

CONTRACT NO. 61D62

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

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE 847-705-4406, SCHAUMBURG, IL

INDEX OF SHEETS

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| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS |
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| 424006-02 | DIAGONAL CURB RAMPS FOR SIDEWALKS |
| 424011-03 | CORNER PARALLEL CURB RAMPS FOR SIDEWALKS |
| 424021-03 | DEPRESSED CORNER FOR SIDEWALKS |
| 424026-01 | ENTRANCE / ALLEY PEDESTRIAN CROSSINGS |
| 442201-03 | CLASS C AND D PATCHES |
| 604086-03 | FRAME AND GRATE, TYPE 23 |
| 606001-06 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 606301-04 | PC CONCRETE ISLANDS AND MEDIANS |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE |
| 701101-05 | OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE |
| 701427-05 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH |
| 701601-09 | URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN |
| 701602-08 | URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE |
| 701606-10 | URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN |
| 701611-01 | URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN |
| 701701-10 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
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| 886001-01 | DETECTOR LOOP INSTALLATIONS |
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| | |
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| TC-10 | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS |
| TC-13 | DISTRICT ONE TYPICAL PAVEMENT MARKING |
| TC-16 | PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING |
| TC-22 | ARTERIAL ROAD INFORMATION SIGN |
| TS-07 | DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING |

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|  | ENGINEERING CONSULTANT | USER NAME = mdboub | DESIGNED - ES | REVISED - |
| | | | DRAWN - NT / AMH | REVISED - |
| | | PLOT SCALE = 2.0000' / in. | CHECKED - ES | REVISED - |
| | | PLOT DATE = 3/8/2017 | DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY FARM ROAD IMPROVEMENTS
INDEX, HIGHWAY STANDARDS AND DISTRICT ONE DETAILS

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 362 | 14-00179-31-SP | DUPAGE | 99 | 2 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

1. ALL REFERENCES TO STANDARD SPECIFICATIONS SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, APRIL 1, 2016 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JAN 1, 2017.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS; THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD); THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS, AND IDOT STANDARD DRAWINGS AS LISTED IN THE CONTRACT DOCUMENTS.

GENERAL NOTES

1. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
2. ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
3. ELGIN AREA SCHOOL DISTRICT U46 (HORIZON ELEMENTARY SCHOOL) - 630 213 5570
COMMUNITY CONSOLIDATED SCHOOL DISTRICT 93 - 630 893 9393
KEENEYVILLE SCHOOL DISTRICT 20 - 630 894 2250
HANOVER PARK POLICE DEPT - 630 823 5500
HANOVER PARK FIRE DEPT - 630 823 5800
4. UNLESS AUTHORIZED BY THE ENGINEER, ALL EXISTING ACCESS POINTS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.
5. DURING THE CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED, AT HIS/HER EXPENSE, TO HAVE A WATER TRUCK OR SIMILAR EQUIPMENT AVAILABLE TO CONTROL DUST. IF NECESSARY, THE CONTRACTOR SHALL BE REQUIRED TO CONTROL DUST DURING NON-WORKING HOURS.

TREE REMOVAL, CLEARING, HEDGE REMOVAL

1. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.
2. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF BY THE CONTRACTOR OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.

TOPSOIL

1. TOPSOIL SHALL BE PLACED TO A DEPTH OF SIX (6) INCHES AND BE MEASURED IN SQUARE YARDS.
2. TOPSOIL SHALL NOT BE STOCKPILED WITHIN THE LIMITS OF CONSTRUCTION; THE LOCATIONS OF TOPSOIL STOCKPILES WITHIN THE RIGHT-OF-WAY MUST BE APPROVED BY THE ENGINEER.

ROADWAY EXCAVATION

1. THE CONTRACTOR SHALL NOT CROSS COMPLETED BASE COURSE OR EXISTING PAVEMENT, NOT SCHEDULED TO BE REMOVED, WITH TRACK EQUIPMENT OR LOADED SCRAPERS.
2. ALL EMBANKMENTS AND SUB-GRADE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING AGGREGATE SUBGRADE OR SUB-BASE GRANULAR MATERIAL.

HMA SURFACE AND BASE COURSE

1. HOT-MIX ASPHALT SURFACE COURSE SHALL NOT BE PLACED UNTIL ALL EARTH EXCAVATION, TOPSOIL PLACEMENT, BASE COURSE, AND HOT-MIX ASPHALT BINDER COURSE HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.
2. THE MAXIMUM COMPACTED THICKNESS OF ANY LIFT OF HOT-MIX ASPHALT BINDER OR SURFACE COURSE SHALL BE 2.5 INCHES.
3. THE MAXIMUM COMPACTED THICKNESS OF A LIFT OF HOT-MIX ASPHALT BASE COURSE SHALL BE FOUR (4) INCHES UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
4. HOT-MIX ASPHALT BASE COURSE SHALL NOT BE PLACED ADJACENT TO CURB AND GUTTER UNTIL THE CURB AND GUTTER HAS BEEN BACKFILLED TO THE SATISFACTION OF THE ENGINEER.

STORM SEWERS, STRUCTURES, AND UTILITIES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING SANITARY SEWERS, WATERMANS, AND STREET LIGHTS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR THE ADJUSTMENT, RELOCATION, OR EXTENSION OF THE UTILITY INVOLVED.
2. THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE PROVIDED BY THE OWNERS. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE OWNERS OF THE UTILITIES.

VILLAGE OF HANOVER PARK - 630 823 5700
NWJAWA - 773 686 0077
3. MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED WITH FLAT TOPS WHERE THE DIFFERENCE BETWEEN THE RIM ELEVATION AND INVERT ELEVATION IS LESS THAN SIX (6) FEET.
4. ALL ADJUSTMENTS OR RECONSTRUCTIONS SHALL INCLUDE THE REMOVAL AND REPLACEMENT, AT THE CONTRACTOR'S EXPENSE, OF ALL UNSUITABLE TWO (2) FOOT INSIDE DIAMETER ADJUSTING RINGS.
5. ADJUSTMENT OF STRUCTURES MAINTAINED BY OTHER AGENCIES SHALL BE MADE TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY MAINTAINING THE STRUCTURE INVOLVED.
6. PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE VILLAGE DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED.
7. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER, AND CABLE TELEVISION FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
8. THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED IN THE CURB LINE REFER TO THE POSITION OF THE ADJACENT PROPOSED EDGE OF PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY FOR THE STRUCTURES TO SET THE FRAME AND GRATES IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF THE STRUCTURE ELEVATION INDICATES RIM GRADES.

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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 6507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: cllorba@clorba.com

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| USER NAME = mdaboub | DESIGNED - ES | REVISED - |
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| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
GENERAL NOTES**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|--------------------|----------------|--------|---------------------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 3 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

EROSION CONTROL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE VII OF THE DUPAGE COUNTY COUNTYWIDE STORM WATER AND FLOOD PLAIN ORDINANCE, EFFECTIVE APRIL 2013 AND ALL SUBSEQUENT REVISIONS. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED PER ADOT STANDARD 280001 OR AS SPECIFIED HEREIN AND PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMITS ILR10 AND ILR40.
2. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL.
3. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.
4. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODIBLE/BARE AREAS SHALL BE SEEDED EVERY 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING. IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES WILL BE PROVIDED.
5. WHERE WETLANDS ARE TO REMAIN, THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT OR BY HIS WORK CREWS, THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF OR STOCKPILED IN WETLANDS.
6. STOCKPILES AND MATERIAL STORAGE ARE PROHIBITED IN SPECIAL MANAGEMENT AREAS INCLUDING WETLANDS, WETLAND BUFFERS, AND FLOOD PLAINS. LOCATIONS OF STOCKPILES MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES
7. RECEPTACLES FOR CONSTRUCTION DEBRIS, INCLUDING CONCRETE TRUCK WASHOUT WASTE, SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR. THESE WILL NOT BE ALLOWED IN SPECIAL MANAGEMENT AREAS. RECEPTACLES AND THEIR LOCATIONS MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES.
8. HAY OR STRAW BALES WILL NOT BE ALLOWED AS PERIMETER EROSION BARRIER OR AS A DITCH CHECK.
9. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
10. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.
11. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS, ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY AND AS NEEDED.
12. CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.
13. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF, LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
14. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE FILTER DEVICE.
15. ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.

TRAFFIC SIGNAL NOTES

1. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN, AND ISLAND SURFACE PAVING AT HANDHOLES, JACKING PITS AND INSPECTION OPENINGS SHALL BE SAW CUT AROUND THE AREA TO BE REMOVED. THE REMOVAL AND REPLACEMENT OF SIDEWALK, DRIVEWAY, MEDIAN, AND ISLAND SURFACE PAVING WILL BE PAID FOR SEPARATELY.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES, CALL J.U.L.I.E. TOLL FREE NUMBER 1-800-892-0123.
3. ALL SIGNAL POSTS AND MAST ARM POLES SHALL BE LOCATED WITH THEIR CENTERLINES A MINIMUM OF FOUR (4) FEET AND SIX (6) FEET RESPECTIVELY FROM THE BACK OF CURB UNLESS NOTED OR DIMENSIONED TO THE CONTRARY ON THE DRAWINGS. IN NON-CURBED AREAS THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. SIGNAL POSTS SHALL BE PLACED AT A MINIMUM OF TWO (2) FEET BEHIND THE EDGE OF SHOULDER.
4. THE CONTRACTOR SHALL CONTACT THE DUPAGE COUNTY DIVISION OF TRANSPORTATION (630/407-6900) FOR TRAFFIC SIGNAL CABLE LOCATION, A MINIMUM OF 48 HOURS IN ADVANCE (SATURDAYS, SUNDAY, AND HOLIDAYS EXCLUDED) AT ANY LOCATION WITHIN THE RIGHT-OF-WAY.
5. CONTACT THE DUPAGE COUNTY TRAFFIC SIGNAL COORDINATOR (630/407-6900) TO APPROVE LOCATIONS OF LOOPS, SIGNAL FOUNDATIONS AND SIGNAL HEADS.
6. ALL PRESENCE LOOPS SHALL BE EQUIPPED WITH AN INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT.

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ENGINEERING CONSULTANT

 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: clorba@clorba.com

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| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
 GENERAL NOTES**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 362 | 14-00179-31-SP | DUPAGE | 99 | 4 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | COUNTY FARM HSIP 0005 90% FED / 10% LOCAL | COUNTY FARM LAFO 0005 75% FED / 25% LOCAL |
|------------|--|-------|----------------|---|---|
| 20101700 | SUPPLEMENTAL WATERING | UNIT | 7 | 2 | 5 |
| 20200100 | EARTH EXCAVATION | CU YD | 226 | 39 | 187 |
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 120 | 45 | 75 |
| 21101625 | TOPSOIL FURNISH AND PLACE, 6" | SQ YD | 516 | 103 | 413 |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 9 | 1 | 8 |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 9 | 1 | 8 |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 9 | 1 | 8 |
| 25200110 | SODDING, SALT TOLERANT | SQ YD | 516 | 103 | 413 |
| 28000510 | INLET FILTERS | EACH | 19 | | 19 |
| △ 31101180 | SUBBASE GRANULAR MATERIAL, TYPE B 2" | SQ YD | 864 | 286 | 578 |
| △ 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 6,678 | 1,875 | 4,803 |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 1,336 | 300 | 1,036 |
| △ 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 497 | 128 | 369 |
| △ 40603240 | POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 | TON | 11,218 | 3,150 | 8,068 |
| △ 40603565 | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 | TON | 7,479 | 2,100 | 5,379 |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | SQ FT | 7,797 | 2,612 | 5,185 |

• DENOTES SPECIALITY ITEM
△ DENOTES SPECIAL PROVISION

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ENGINEERING CONSULTANT
Clorba Group, Inc.
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5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60630
Tel. 773.775.4500 Fax 773.775.4014
Email: chicago@clorba.com

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| DRAWN - NT / AMH | REVISED - |
| CHECKED - ES | REVISED - |
| DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|--------------------|----------------|--------|---------------------------|-----------|
| FAP R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 5 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | COUNTY FARM HSIP 0005 90% FED / 10% LOCAL | COUNTY FARM LAFO 0005 75% FED / 25% LOCAL |
|----------|---|-------|----------------|---|---|
| 42400800 | DETECTABLE WARNINGS | SQ FT | 469 | 96 | 373 |
| 44000164 | HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" | SQ YD | 89,032 | 24,998 | 64,034 |
| 44000500 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 1,236 | 349 | 887 |
| 44000600 | SIDEWALK REMOVAL | SQ FT | 6,935 | 2,317 | 4,618 |
| 44201815 | CLASS D PATCHES, TYPE II, 14 INCH | SQ YD | 275 | 83 | 192 |
| 44201819 | CLASS D PATCHES, TYPE III, 14 INCH | SQ YD | 444 | 133 | 311 |
| 44201821 | CLASS D PATCHES, TYPE IV, 14 INCH | SQ YD | 1,066 | 320 | 746 |
| 50102400 | CONCRETE REMOVAL | CU YD | 3.8 | | 3.8 |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 4.2 | | 4.2 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 670 | | 670 |
| 50800530 | MECHANICAL SPLICERS | EACH | 8 | | 8 |
| 52100520 | ANCHOR BOLTS, 1" | EACH | 32 | | 32 |
| 58100200 | WATERPROOFING MEMBRANE SYSTEM | SQ YD | 402 | | 402 |
| 58300100 | PORTLAND CEMENT MORTAR FAIRING COURSE | FOOT | 655 | | 655 |
| 58700300 | CONCRETE SEALER | SQ FT | 31 | | 31 |
| 59000200 | EPOXY CRACK INJECTION | FOOT | 9 | | 9 |

• DENOTES SPECIALITY ITEM
 Δ DENOTES SPECIAL PROVISION

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 PLOT DATE = 3/9/2017
 FILE NAME = N:\PROJ\0020354\0020354_05\Design\Misc-Sheets\0020354_05_scc01.dgn

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 6807 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4009 Fax 773.775.4014
 Email: chicago@clorba.com

USER NAME = espino
 PLOT SCALE = 2.0000' / 1" = 20000
 PLOT DATE = 3/9/2017

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| DESIGNED - ES | REVISED - |
| DRAWN - NT / AMH | REVISED - |
| CHECKED - ES | REVISED - |
| DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
 SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 6 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | COUNTY FARM HSIP 0005 90% FED / 10% LOCAL | COUNTY FARM LAFO 0005 75% FED / 25% LOCAL |
|------------|---|-------|----------------|---|---|
| △ 60219530 | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE | EACH | 1 | 1 | |
| 60255700 | MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID | EACH | 1 | | 1 |
| 60256930 | MANHOLES TO BE ADJUSTED WITH NEW TYPE 23 FRAME AND GRATE | EACH | 3 | 1 | 2 |
| 60259330 | MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 23 FRAME AND GRATE | EACH | 5 | 3 | 2 |
| 60500040 | REMOVING MANHOLES | EACH | 1 | 1 | |
| 60604400 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 | FOOT | 1,184 | 164 | 1,020 |
| * 66900200 | NON-SPECIAL WASTE DISPOSAL | CU YD | 10 | 10 | |
| 67100100 | MOBILIZATION | LSUM | 1 | 0.5 | 0.5 |
| 70102625 | TRAFFIC CONTROL AND PROTECTION. STANDARD 701606 | LSUM | 1 | 0.5 | 0.5 |
| 70102630 | TRAFFIC CONTROL AND PROTECTION. STANDARD 701601 | LSUM | 1 | 0.5 | 0.5 |
| 70102632 | TRAFFIC CONTROL AND PROTECTION. STANDARD 701602 | LSUM | 1 | 0.5 | 0.5 |
| 70102634 | TRAFFIC CONTROL AND PROTECTION. STANDARD 701611 | LSUM | 1 | 0.5 | 0.5 |
| 70102635 | TRAFFIC CONTROL AND PROTECTION. STANDARD 701701 | LSUM | 1 | 0.5 | 0.5 |
| 70102640 | TRAFFIC CONTROL AND PROTECTION. STANDARD 701801 | LSUM | 1 | 0.5 | 0.5 |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 10,969 | 7,342 | 3,627 |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 3,990 | 2,643 | 1,347 |

• DENOTES SPECIALITY ITEM
△ DENOTES SPECIAL PROVISION

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ENGINEERING CONSULTANT
USER NAME = espino
DESIGNED - ES
DRAWN - NT / AMH
CHECKED - ES
PLOT DATE = 3/9/2017

DESIGNED - ES
REVISIED -
DRAWN - NT / AMH
REVISIED -
CHECKED - ES
REVISIED -
DATE - JAN 2017
REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY FARM ROAD IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 7 |
| CONTRACT NO. | | | 61D62 | |
| ILLINOIS FED. AID PROJECT | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | COUNTY FARM HSIP 0005 90% FED / 10% LOCAL | COUNTY FARM LAFO 0005 75% FED / 25% LOCAL |
|------------|--|-------|----------------|---|---|
| 70300210 | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS | SO FT | 957 | 146 | 811 |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 12,633 | 3,520 | 9,113 |
| 70300280 | TEMPORARY PAVEMENT MARKING - LINE 24" | FOOT | 446 | 138 | 308 |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 500 | | 500 |
| 70400200 | RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 500 | | 500 |
| 70600250 | IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3 | EACH | 4 | | 4 |
| 70600350 | IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 | EACH | 4 | | 4 |
| * 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SO FT | 957 | 146 | 811 |
| * 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 44,273 | 10,892 | 33,381 |
| * 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 3,187 | 850 | 2,337 |
| * 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 5,065 | 979 | 4,086 |
| * 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 446 | 138 | 308 |
| 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 1,400 | 200 | 1200 |
| * 81028200 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 23 | 23 | |
| * 85000200 | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 | 1 | |
| * 87300010 | GROUNDING EXISTING HANDHOLE FRAME AND COVER | EACH | 8 | 8 | |

• DENOTES SPECIALITY ITEM
 Δ DENOTES SPECIAL PROVISION

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 PLOT DATE = 3/9/2017

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 6607 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60636
 Tel: 773.775.4009 Fax 773.775.4014
 Email: chicago@clorba.com

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|----------------------------|------------------|-----------|
| USER NAME = espino | DESIGNED - ES | REVISED - |
| | DRAWN - NT / AMH | REVISED - |
| PLOT SCALE = 2.0000' / in. | CHECKED - ES | REVISED - |
| PLOT DATE = 3/9/2017 | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|---------------------|------|---------|
| COUNTY FARM ROAD IMPROVEMENTS SUMMARY OF QUANTITIES | | | |
| SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA. |

| | | | | |
|--------------------|----------------|--------|---------------------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | | 99 | 8 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | COUNTY FARM HSIP 0005 90% FED / 10% LOCAL | COUNTY FARM LAFO 0005 75% FED / 25% LOCAL |
|--------------|---|-------|----------------|---|---|
| * 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 54 | 54 | |
| * 87301225 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 240 | 240 | |
| * 87301305 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 548 | 548 | |
| * 87301900 | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 32 | 32 | |
| * 87502440 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT. | EACH | 1 | 1 | |
| * 87800100 | CONCRETE FOUNDATION, TYPE A | FOOT | 4 | 4 | |
| * 87900200 | DRILL EXISTING HANDHOLE | EACH | 1 | 1 | |
| * 88102717 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 12 | 12 | |
| * 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 2 | 2 | |
| * Δ 88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 1,241 | 911 | 330 |
| * 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 10 | 10 | |
| * 89502200 | MODIFY EXISTING CONTROLLER | EACH | 1 | 1 | |
| * 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 1 | 1 | |
| * 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | |
| Δ X0325451 | NON-SHRINK GROUT | CU FT | 19.2 | | 19.2 |
| Δ X0326862 | STRUCTURES TO BE ADJUSTED | EACH | 21 | | 21 |

• DENOTES SPECIALITY ITEM
Δ DENOTES SPECIAL PROVISION

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PLOT SCALE = 2.0000' / 1"

ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
5807 North Cumberland Avenue, Suite 402
Chicago, Illinois 60630
Tel: 773.775.4009 Fax: 773.775.4014
Email: clorba@clorba.com

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|---------------------------|------------------|-----------|
| USER NAME = espin | DESIGNED - ES | REVISED - |
| PLOT SCALE = 2.0000' / 1" | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/9/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|---------------------|------|---------|
| COUNTY FARM ROAD IMPROVEMENTS SUMMARY OF QUANTITIES | | | |
| SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA. |

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 9 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | COUNTY FARM HSIP 0005 90% FED / 10% LOCAL | COUNTY FARM LAFO 0005 75% FED / 25% LOCAL |
|--------------|--|--------|----------------|---|---|
| △ X0326898 | CENTER LINE - RUMBLE STRIP - 16" | FOOT | 3,008 | 3,008 | |
| △ X0327979 | PAVEMENT MARKING REMOVAL - GRINDING | SQ FT | 250 | | 250 |
| △ X4402805 | ISLAND REMOVAL | SQ FT | 931 | 931 | |
| △ X6025602 | MANHOLES TO BE ADJUSTED WITH FRAME AND GRATE (SPECIAL) | EACH | 2 | 1 | 1 |
| △ X6030310 | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) | EACH | 60 | 12 | 48 |
| △ X6060714 | CONCRETE MEDIAN (SPECIAL) | SQ FT | 1,135 | 1,135 | |
| △ X7015005 | CHANGEABLE MESSAGE SIGN | CAL DA | 60 | | 60 |
| △ X7030005 | TEMPORARY PAVEMENT MARKING REMOVAL | SQ FT | 6,060 | 2,174 | 3,886 |
| * △ X7810300 | RECESSED REFLECTIVE PAVMENT MARKER | EACH | 2,539 | 559 | 1,980 |
| * △ X8140115 | HANDHOLE TO BE ADJUSTED | EACH | 3 | 3 | |
| △ Z0004556 | HOT-MIX ASPHALT SURFACE REMOVAL (DECK) | SQ YD | 402 | | 402 |
| △ Z0012754 | STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) | SQ FT | 31 | | 31 |
| △ Z0013798 | CONSTRUCTION LAYOUT | LSUM | 1 | 0.5 | 0.5 |
| △ Z0016200 | DECK SLAB REPAIR (PARTIAL) | SQ YD | 20 | | 20 |
| △ Z0017300 | DOWEL REPAIR | EACH | 26 | | 26 |
| △ Z0029300 | GROUT REPAIR | FOOT | 56 | | 56 |

• DENOTES SPECIALITY ITEM
△ DENOTES SPECIAL PROVISION

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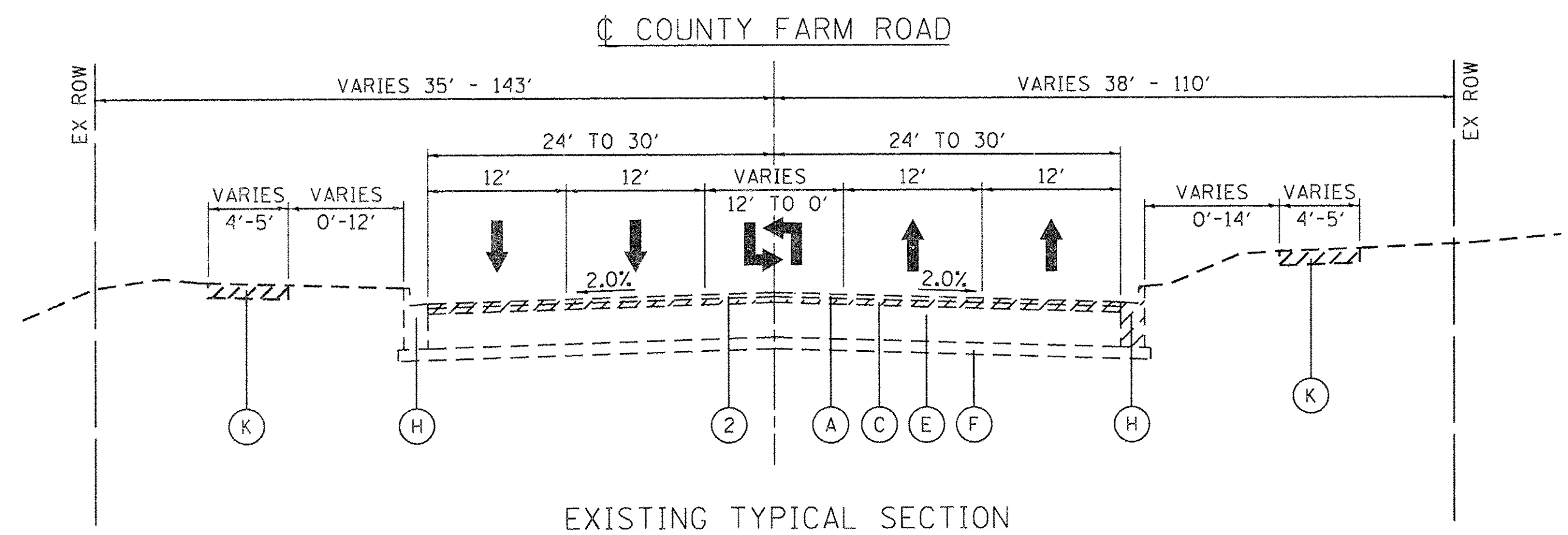
ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
6607 North Cumberland Avenue, Suite 402
Chicago, Illinois 60636
Tel: 773.775.4009 Fax: 773.775.4014
Email: chicago@clorba.com

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| USER NAME = espino | DESIGNED - ES | REVISED - |
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| PLOT DATE = 3/9/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| COUNTY FARM ROAD IMPROVEMENTS SUMMARY OF QUANTITIES | | | |
|--|-----------|-----------|--------------|
| SCALE: N.T.S. | SHEET NO. | OF SHEETS | STA. TO STA. |

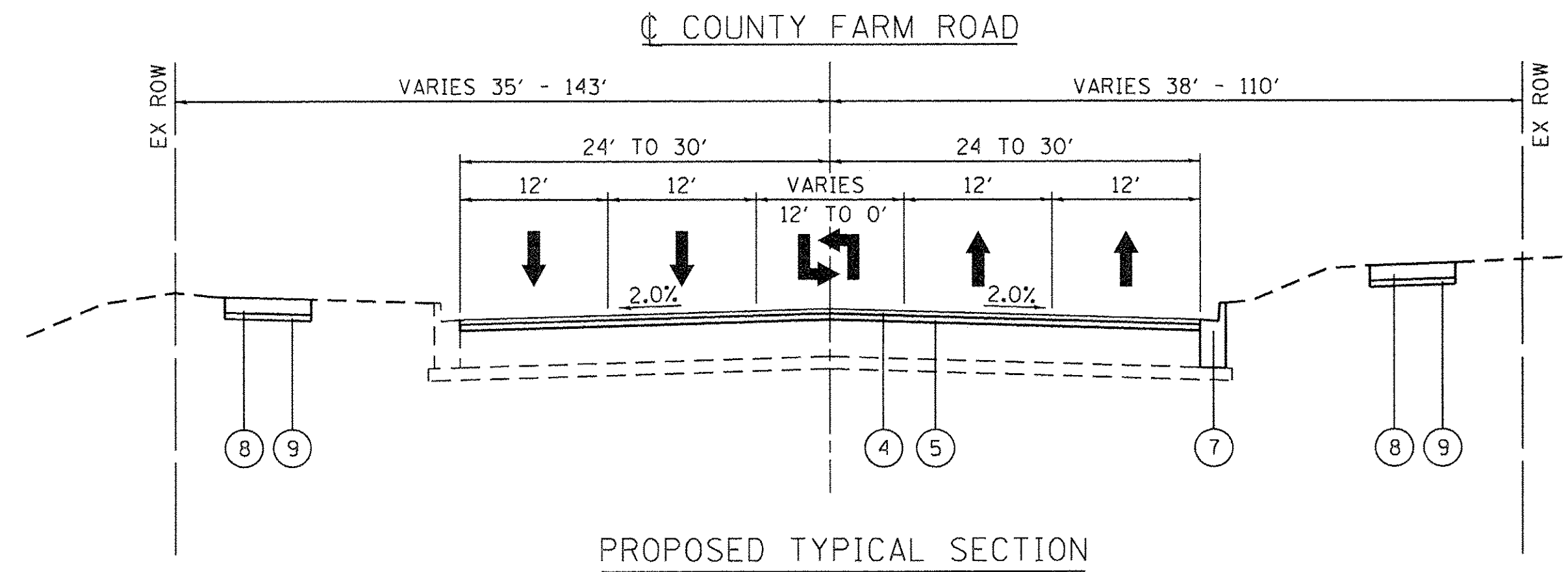
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|---------------------------|----------------|--------|--------------|-----------|
| 362 | 14-00179-31-SP | DUPAGE | 99 | 10 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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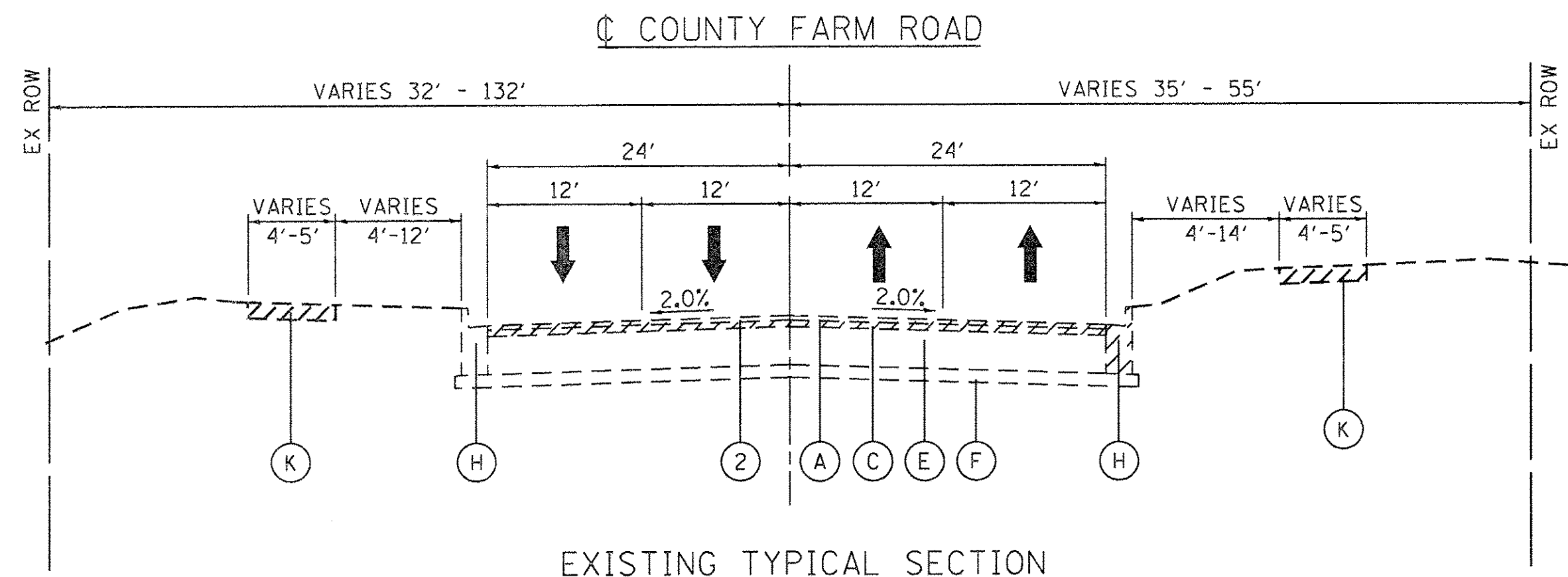
COUNTY FARM ROAD
 STA 114+24.37 TO STA 141+66.90
 STA 168+68.00 TO STA 216+32.25
 STA 235+99.49 TO STA 240+92.52 [1]

[1] HOT-MIX ASPHALT SURFACE COURSE, 2"
 HOT-MIX ASPHALT BASE COURSE, 10"



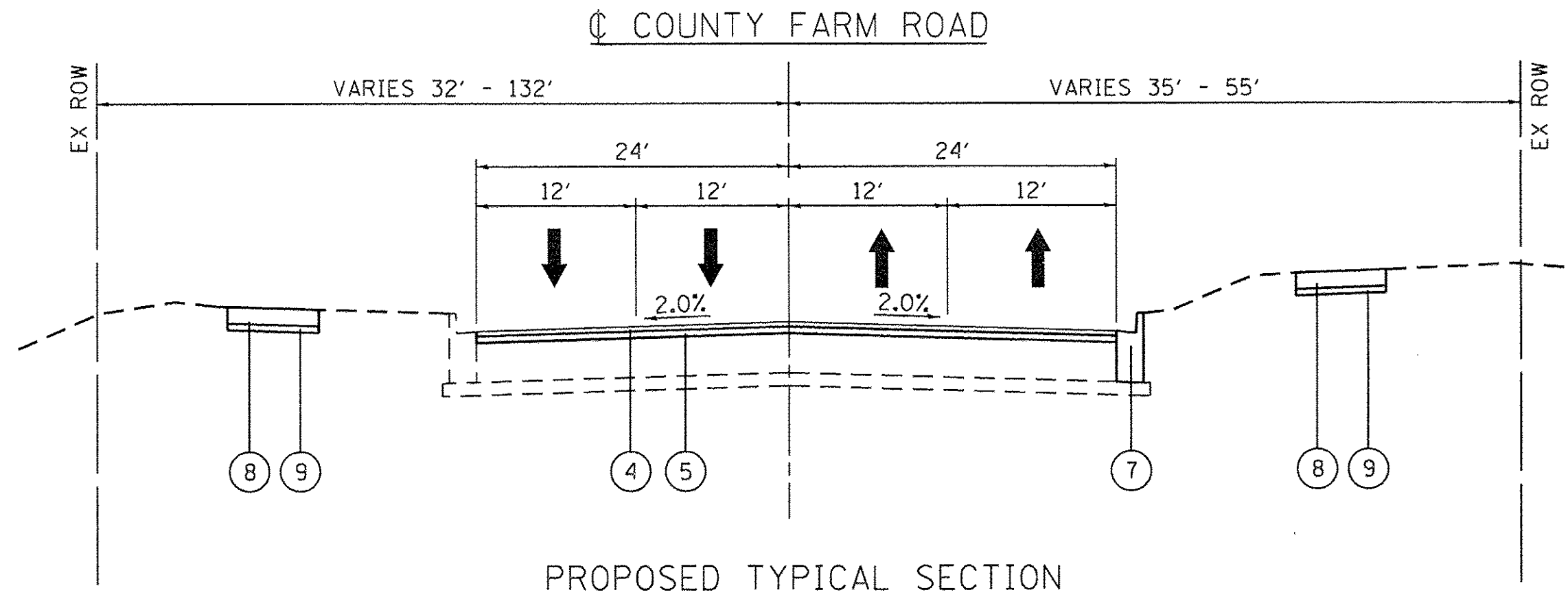
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COUNTY FARM ROAD
 STA 114+24.37 TO STA 141+66.90
 STA 168+68.00 TO STA 216+32.25
 STA 235+99.49 TO STA 240+92.52



EXISTING TYPICAL SECTION

COUNTY FARM ROAD
 STA 141+66.90 TO STA 168+68.00
 STA 216+32.25 TO STA 219+50.00

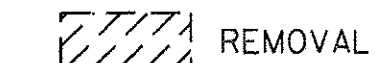


PROPOSED TYPICAL SECTION

COUNTY FARM ROAD
 STA 141+66.90 TO STA 168+68.00
 STA 216+32.25 TO STA 219+50.00

LEGEND - EXISTING

- (A) HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- (B) NOT USED
- (C) HOT-MIX ASPHALT BINDER COURSE, 2"
- (D) NOT USED
- (E) HOT MIX ASPHALT BASE COURSE, 12"
- (F) AGGREGATE SUBGRADE, 4"
- (G) NOT USED
- (H) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- (I) NOT USED
- (J) NOT USED
- (K) CONCRETE SIDEWALK
- (L) NOT USED
- (M) NOT USED
- (N) NOT USED



REMOVAL

LEGEND - PROPOSED

- (1) NOT USED
- (2) HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
- (3) NOT USED
- (4) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 1/2"
- (5) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (6) NOT USED
- (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (AS DIRECTED BY THE ENGINEER)
- (8) PCC SIDEWALK, 5"
- (9) SUBBASE GRANULAR MATERIAL, TYPE B, 2"

| HOT-MIX ASPHALT MIXTURE REQUIREMENTS | |
|--|-------------|
| MIXTURE TYPE | AIR VOIDS |
| PAVEMENT RESURFACING - COUNTY FARM ROAD | |
| POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 1/2" | 4% @ 70 GYR |
| POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4" | 4% @ 90 GYR |
| PATCHING | |
| CLASS D PATCHES (HMA BINDER IL-19.mm) | 4% @ 70 GYR |

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES 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.

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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: clg@clorbagroup.com

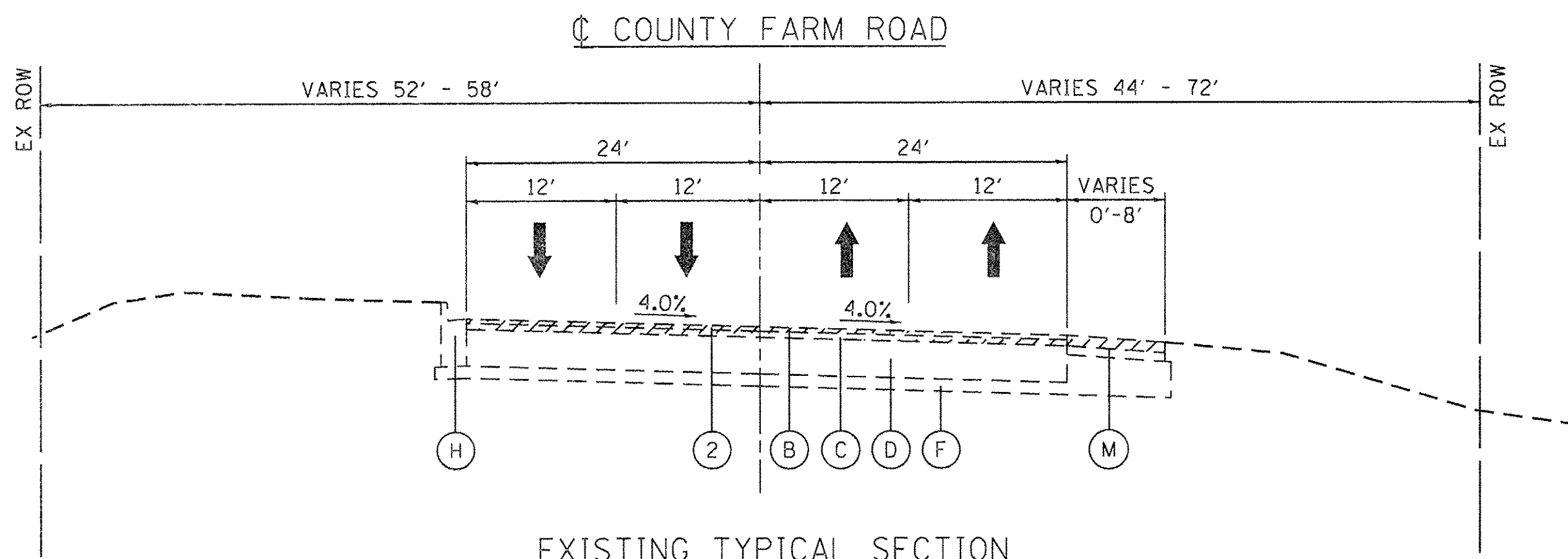
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| PLOT DATE = 3/9/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY FARM ROAD IMPROVEMENTS
TYPICAL SECTIONS

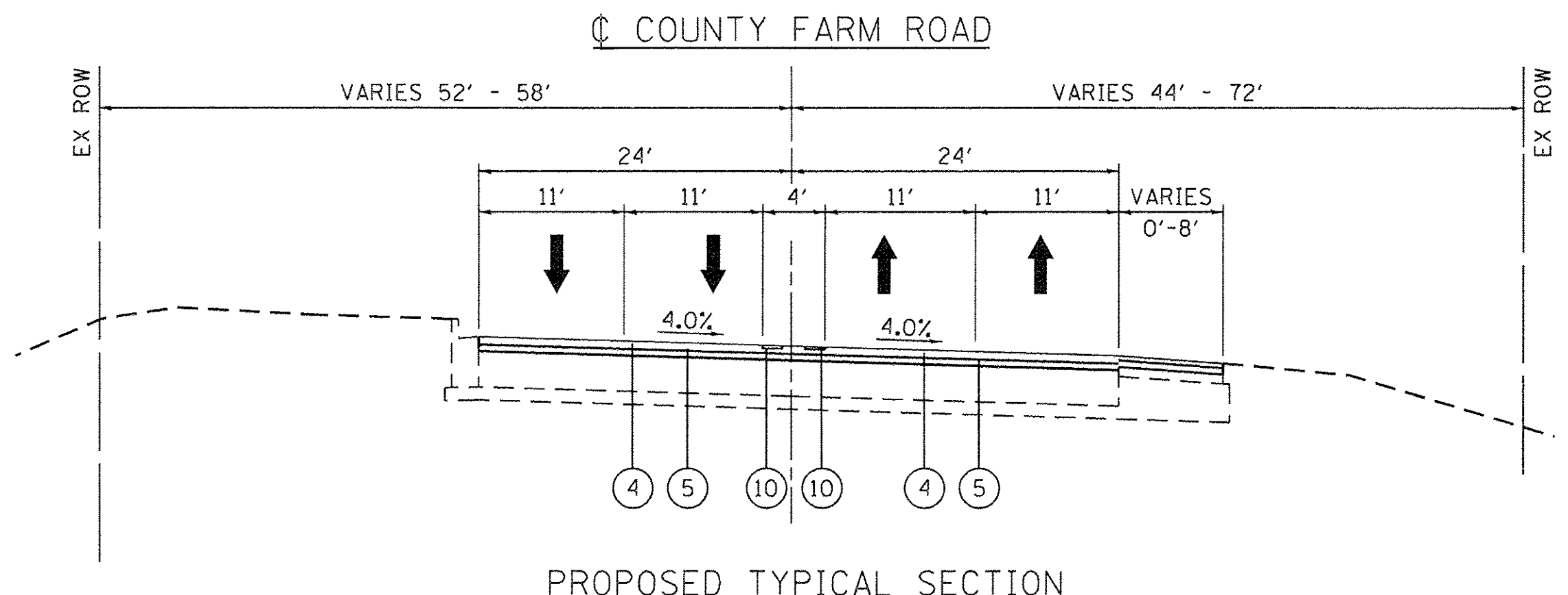
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|--------------------|----------------|--------|---------------------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 12 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |



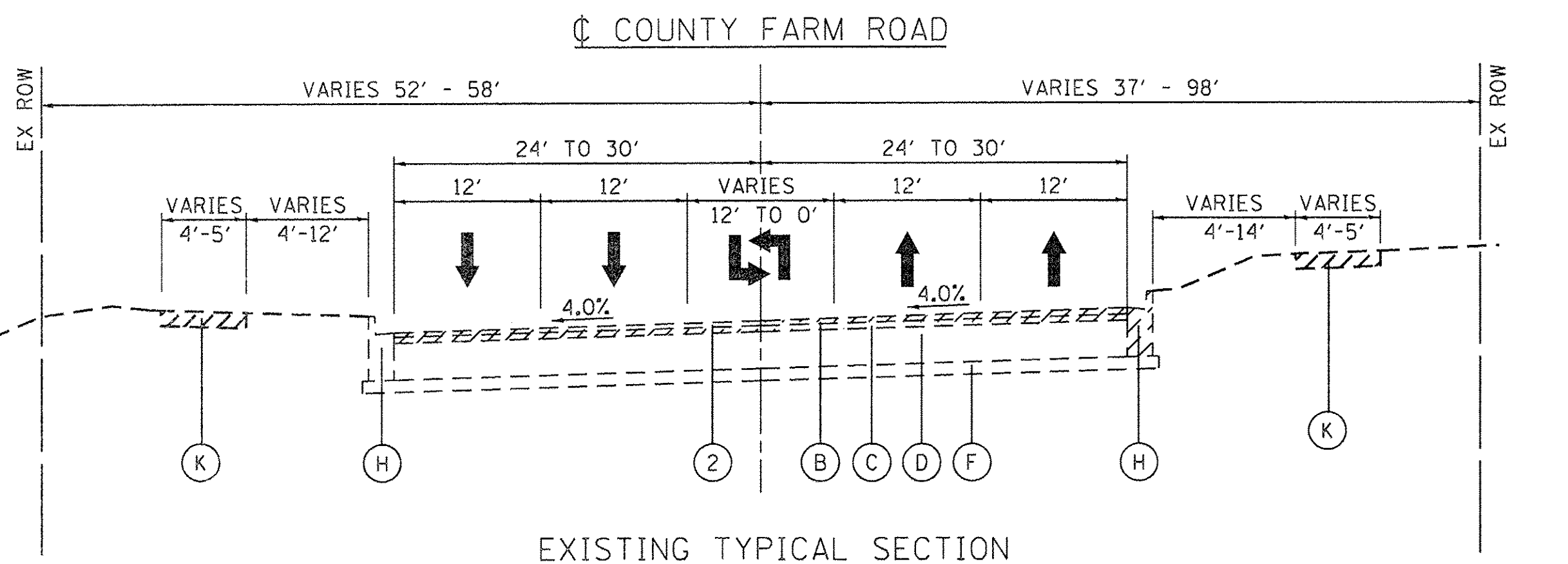
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COUNTY FARM ROAD
STA 219+50.00 TO STA 228+50.00



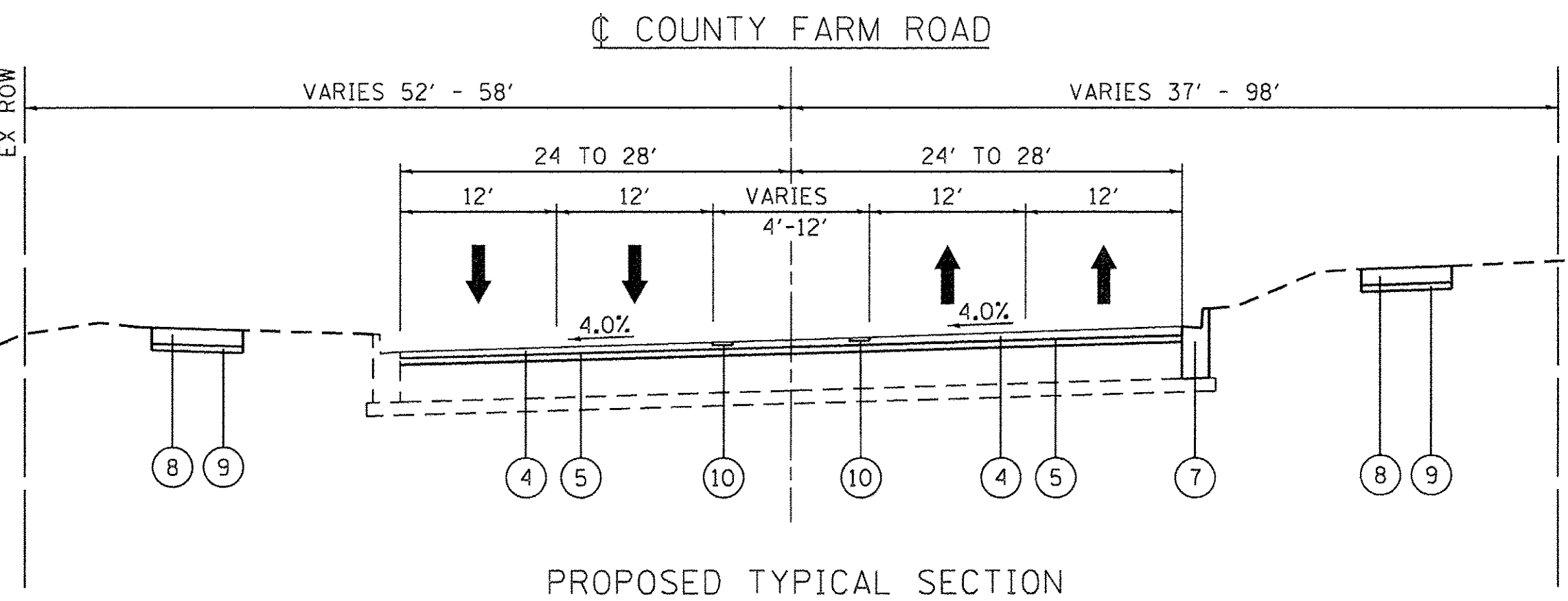
PROPOSED TYPICAL SECTION

COUNTY FARM ROAD
STA 219+50.00 TO STA 228+50.00



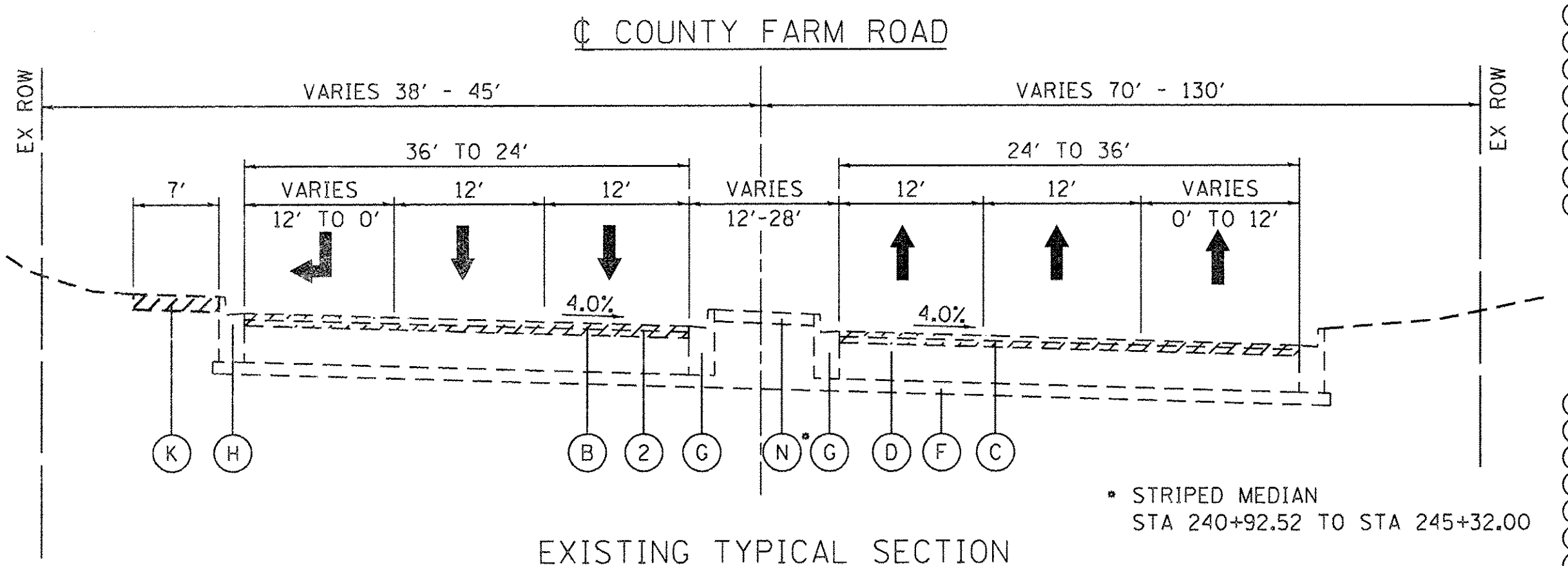
EXISTING TYPICAL SECTION

COUNTY FARM ROAD
STA 228+50.00 TO STA 235+99.49



PROPOSED TYPICAL SECTION

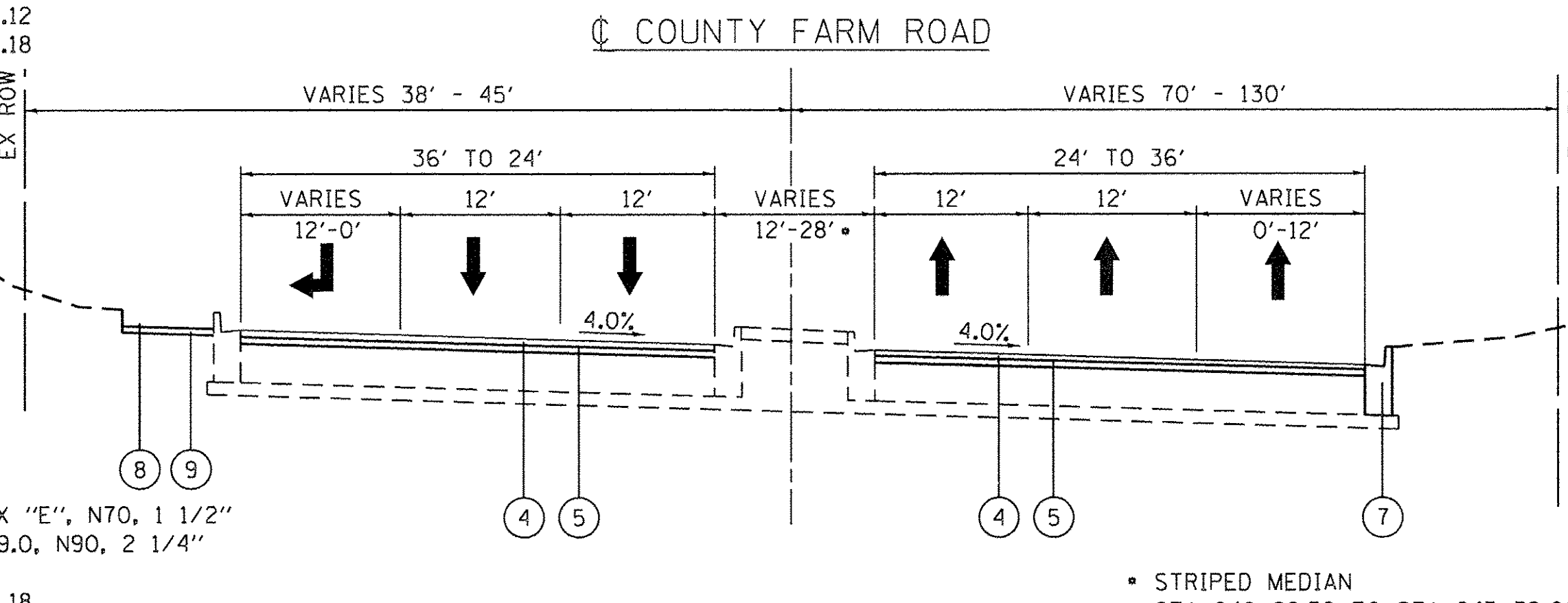
COUNTY FARM ROAD
STA 228+50.00 TO STA 235+99.49



EXISTING TYPICAL SECTION

COUNTY FARM ROAD
STA 240+92.52 TO STA 248+51.57

• STRIPED MEDIAN
STA 240+92.52 TO STA 245+32.00



PROPOSED TYPICAL SECTION

COUNTY FARM ROAD
STA 240+92.52 TO STA 248+51.57

• STRIPED MEDIAN
STA 240+92.52 TO STA 245+32.00

LEGEND - EXISTING

- (A) NOT USED
- (B) HOT-MIX ASPHALT SURFACE COURSE, 2"
- (C) HOT-MIX ASPHALT BINDER COURSE, 2"
- (D) HOT MIX ASPHALT BASE COURSE, 10"
- (E) NOT USED
- (F) AGGREGATE SUBGRADE, 4"
- (G) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (H) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- (I) NOT USED
- (J) NOT USED
- (K) CONCRETE SIDEWALK
- (L) NOT USED
- (M) HOT-MIX ASPHALT SHOULDER, 8"
- (N) CONCRETE MEDIAN SURFACE 4"
- (O) REMOVAL

LEGEND - PROPOSED

- (1) NOT USED
- (2) HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
- (3) NOT USED
- (4) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 1/2"
- (5) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (6) NOT USED
- (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (AS DIRECTED BY THE ENGINEER)
- (8) PCC SIDEWALK, 5"
- (9) SUBBASE GRANULAR MATERIAL, TYPE B, 2"
- (10) CENTER LINE - RUMBLE STRIP - 8" (SEE DETAIL ON SHEET 98)

DATE PLOTTED = 3/9/2017 3:22:31 PM
PLOT CONFIG = 8 1/2" x 11" LAYOUT
FILE NAME = N:\PROJECTS\002\0351\002\0351.dwg

ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60630
Tel: 773.775.4009 Fax: 773.775.4014
Email: chicago@clorba.com

USER NAME = esp:nc
DESIGNED - ES
DRAWN - NT / AMH
CHECKED - ES
DATE - JAN 2017
PLOT SCALE = 20.0000' / 1"
PLOT DATE = 3/9/2017

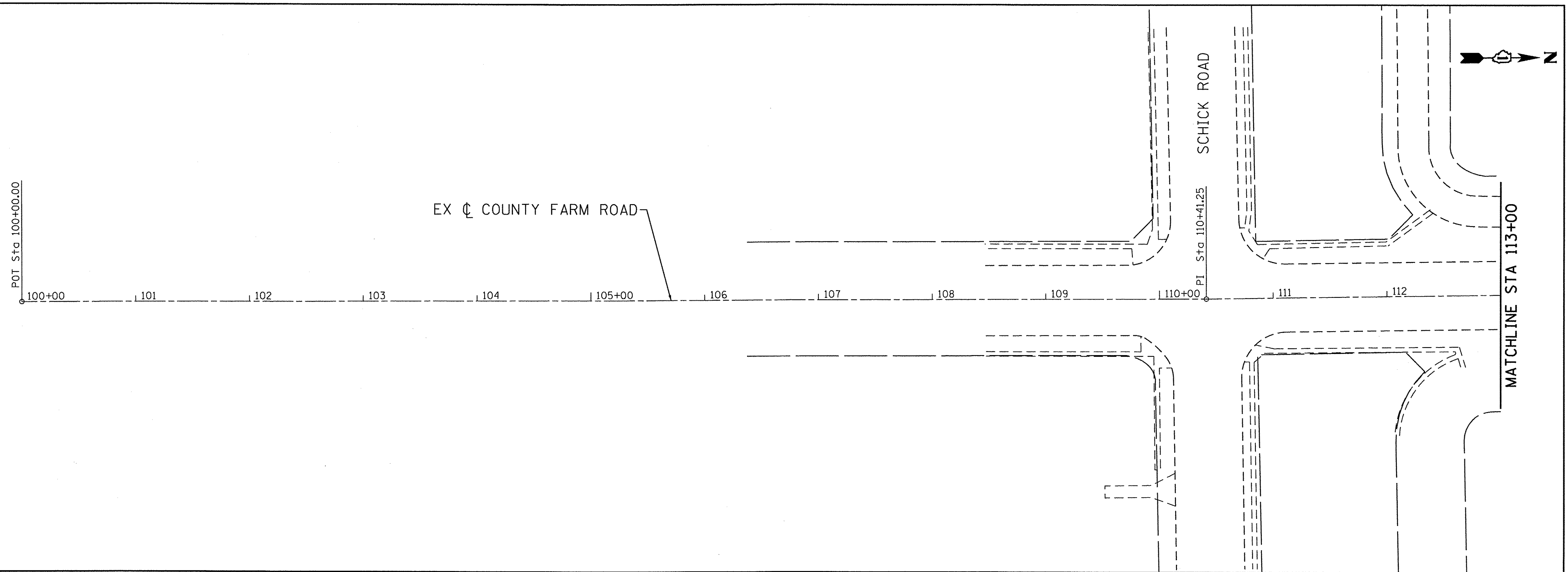
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CHECKED - ES
DATE - JAN 2017
REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY FARM ROAD IMPROVEMENTS
TYPICAL SECTIONS

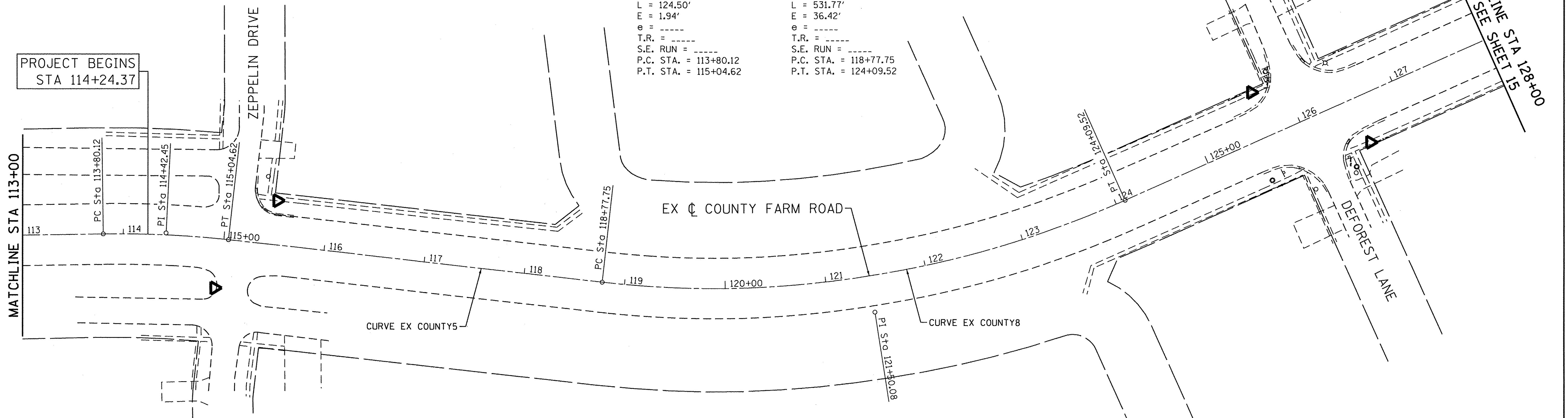
SCALE: SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|--------------------|----------------|--------|---------------------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 13 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |



EXIST. CURVE EXCOUNTY_5
 PI STA. = 114+42.45
 $\Delta = 7^\circ 08' 00''$ (RT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 62.33'$
 $L = 124.50'$
 $E = 1.94'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 113+80.12$
 $P.T. STA. = 115+04.62$

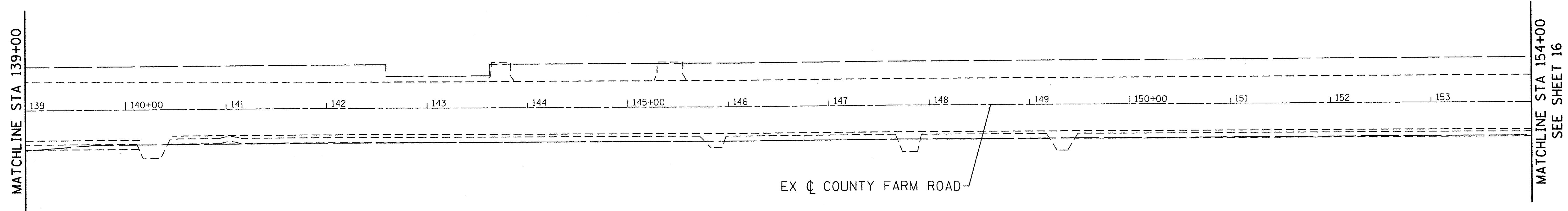
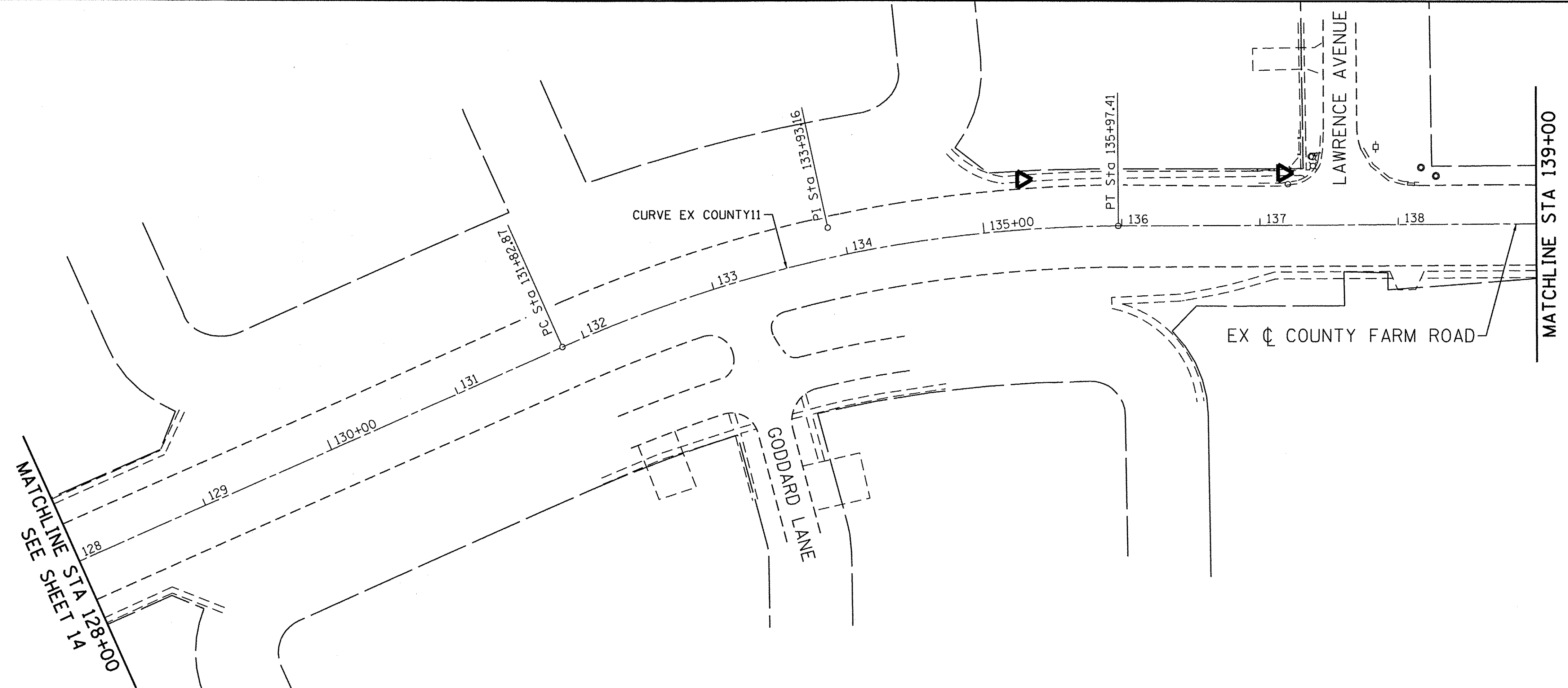
EXIST. CURVE EXCOUNTY_8
 PI STA. = 121+50.08
 $\Delta = 30^\circ 28' 05''$ (LT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 272.33'$
 $L = 531.77'$
 $E = 36.42'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 118+77.75$
 $P.T. STA. = 124+09.52$



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 PLOT SCALE = 1/8" = 100'-0"

| | | | | | | | | | | | |
|---|-----------------------------|-----------------|-----------|---|---|---------------------|--------------|------------------------|---------------|---------------------------|--------------|
| ENGINEERING CONSULTANT CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60630 Tel: 773.775.4009 Fax: 773.775.4014 Email: cigrp@clorba.com | USER NAME = mdaboub | DESIGNED - ES | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | COUNTY FARM ROAD IMPROVEMENTS ALIGNMENT, TIES AND BENCHMARKS | | FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 14 |
| | PLOT SCALE = 1/8" = 100'-0" | CHECKED - ES | REVISED - | | SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA. | CONTRACT NO. 61D62 | | ILLINOIS FED. AID PROJECT | |
| | PLOT DATE = 3/8/2017 | DATE - JAN 2017 | REVISED - | | | | | | | | |

EXIST. CURVE EXCOUNTY_11
 PI STA. = 133+93.16
 $\Delta = 23^\circ 45' 07''$ (RT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 210.29'$
 $L = 414.55'$
 $E = 21.87'$
 $e = \text{-----}$
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 131+82.87
 P.T. STA. = 135+97.41



DATE PLOTTED = 3/8/2017 4:48:52 PM
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 PLOT SCALE = 100.0000' / 1"

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 8807 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: cllorba@clorba.com

| | | |
|-----------------------------|------------------|-----------|
| USER NAME = mdeoub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 100.0000' / 1" | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

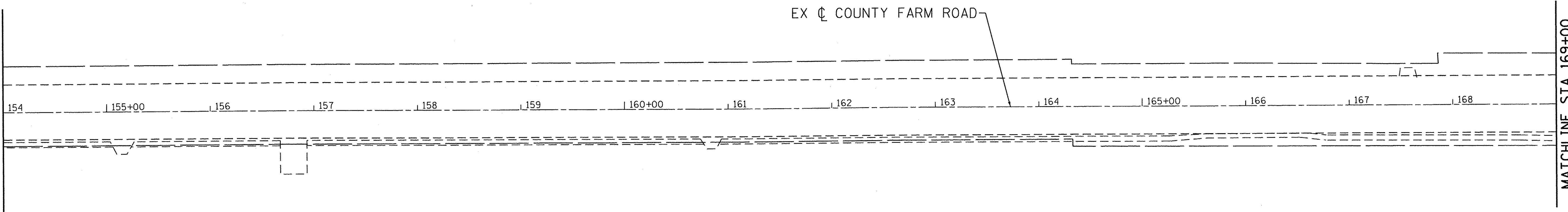
**COUNTY FARM ROAD IMPROVEMENTS
 ALIGNMENT, TIES AND BENCHMARKS**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|------------------------|---------------|-----------------|--------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 15 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

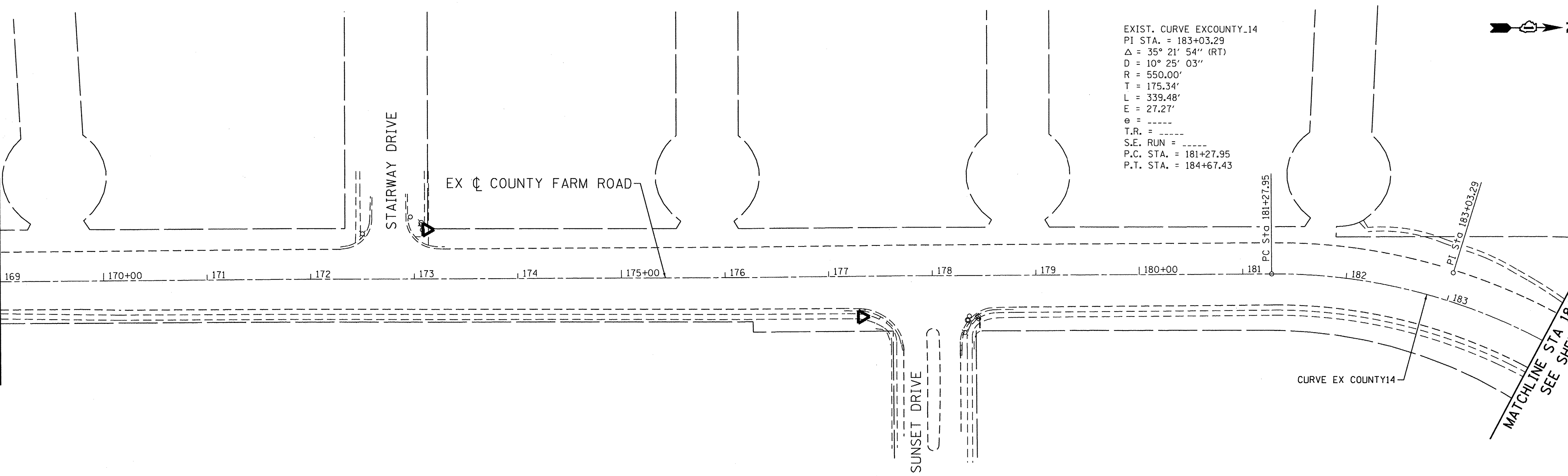


MATCHLINE STA 154+00
SEE SHEET 15



MATCHLINE STA 169+00

MATCHLINE STA 169+00



EXIST. CURVE EXCOUNTY_14
 PI STA. = 183+03.29
 Δ = 35° 21' 54" (RT)
 D = 10° 25' 03"
 R = 550.00'
 T = 175.34'
 L = 339.48'
 E = 27.27'
 e = ----
 T.R. = ----
 S.E. RUN = ----
 P.C. STA. = 181+27.95
 P.T. STA. = 184+67.43

MATCHLINE STA 184+00
SEE SHEET 17

DATE PLOTTED = 3/8/2017 4:48:52 PM
 PLOT FILE = C:\Users\mdabou\Documents\14-00179-31-SP\14-00179-31-SP.dgn
 PLOT SCALE = 100.0000' / 1"

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
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 Chicago, Illinois 60630
 Tel: 773.775.4209 Fax: 773.775.4014
 Email: clorba@clorba.com

| |
|-----------------------------|
| USER NAME = mdabou |
| PLOT SCALE = 100.0000' / 1" |
| PLOT DATE = 3/8/2017 |

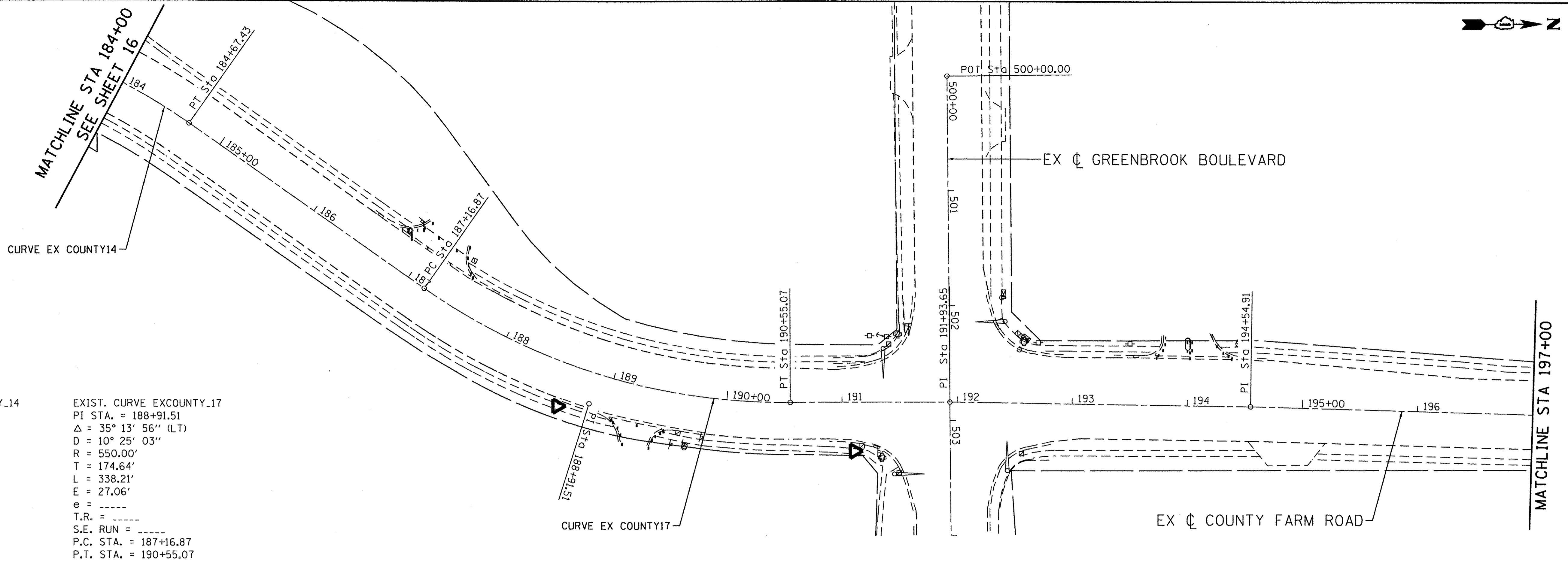
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| DESIGNED - ES | REVISED - |
| DRAWN - NT / AMH | REVISED - |
| CHECKED - ES | REVISED - |
| DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
ALIGNMENT, TIES AND BENCHMARKS**

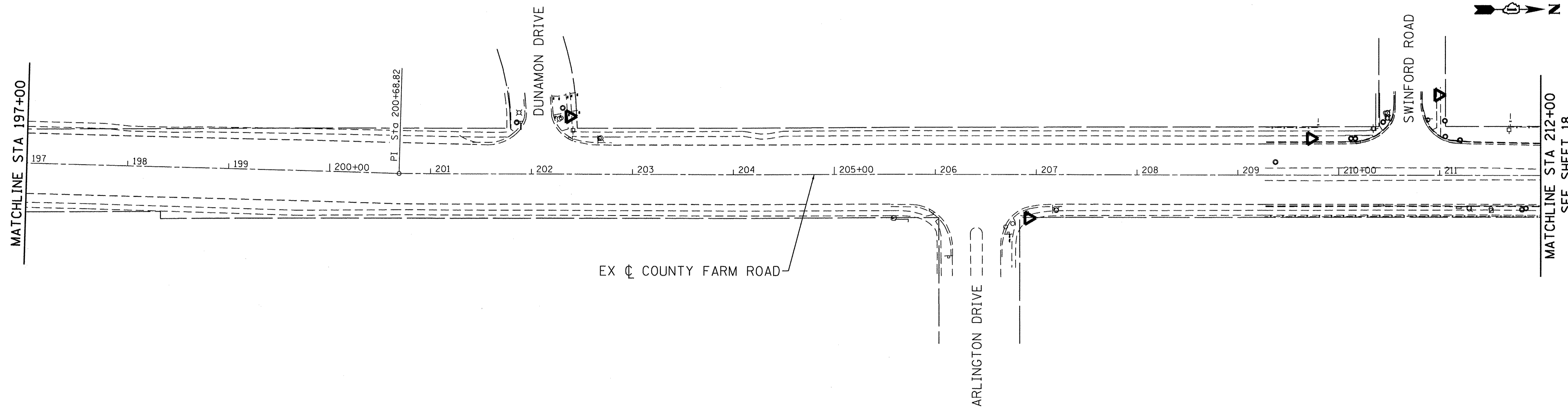
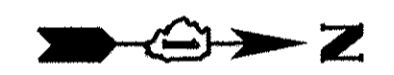
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| | | | | |
|--------------------|------------------------|---------------|-----------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 16 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |



EXIST. CURVE EXCOUNTY_14
 PI STA. = 183+03.29
 $\Delta = 35^\circ 21' 54''$ (RT)
 D = 10° 25' 03"
 R = 550.00'
 T = 175.34'
 L = 339.48'
 E = 27.27'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 181+27.95
 P.T. STA. = 184+67.43

EXIST. CURVE EXCOUNTY_17
 PI STA. = 188+91.51
 $\Delta = 35^\circ 13' 56''$ (LT)
 D = 10° 25' 03"
 R = 550.00'
 T = 174.64'
 L = 338.21'
 E = 27.06'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 187+16.87
 P.T. STA. = 190+55.07



MATCHLINE STA 197+00

MATCHLINE STA 212+00
SEE SHEET 18

DATE PLOTTED = 3/8/2017 4:48:53 PM
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 PLOT SCALE = 100.0000' / 1" = 1" = 100'

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 2607 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60649
 Tel: 773.775.4209 Fax: 773.775.4014
 Email: clorba@clorba.com

USER NAME = mdabou
 PLOT SCALE = 100.0000' / 1" = 1" = 100'
 PLOT DATE = 3/8/2017

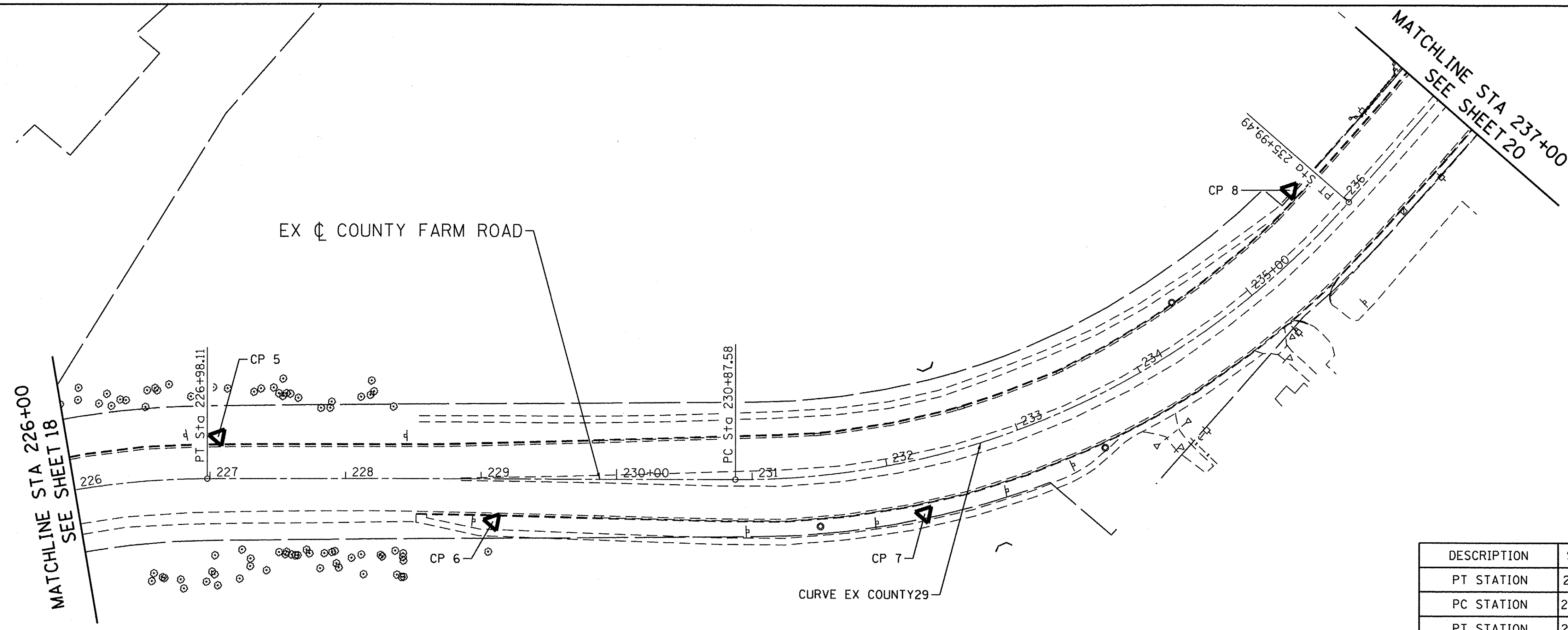
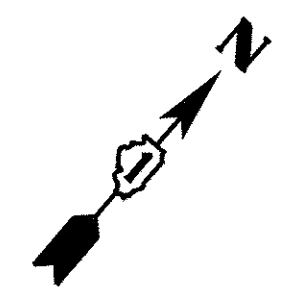
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| DESIGNED - ES | REVISED - |
| DRAWN - NT / AMH | REVISED - |
| CHECKED - ES | REVISED - |
| DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY FARM ROAD IMPROVEMENTS
ALIGNMENT, TIES AND BENCHMARKS

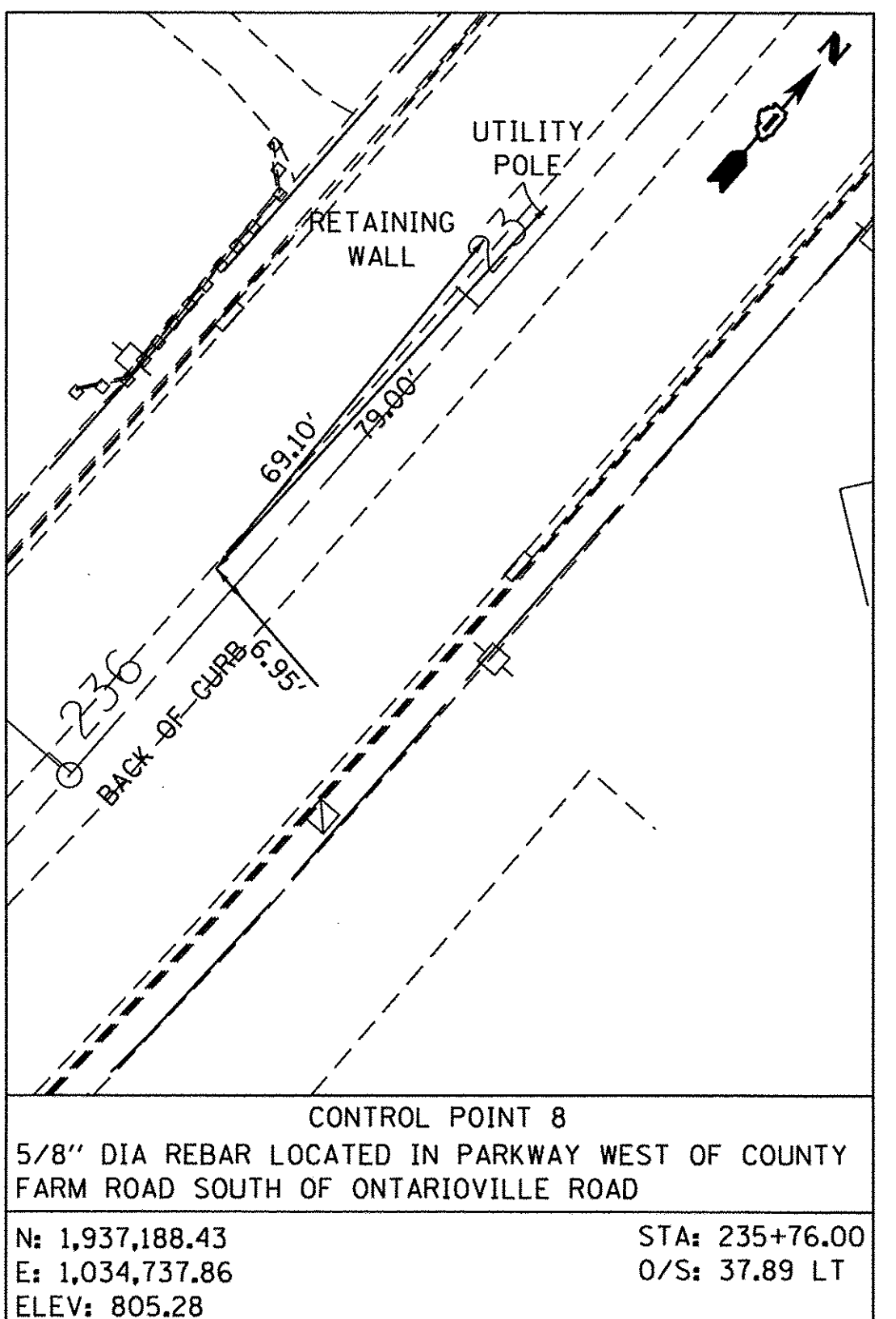
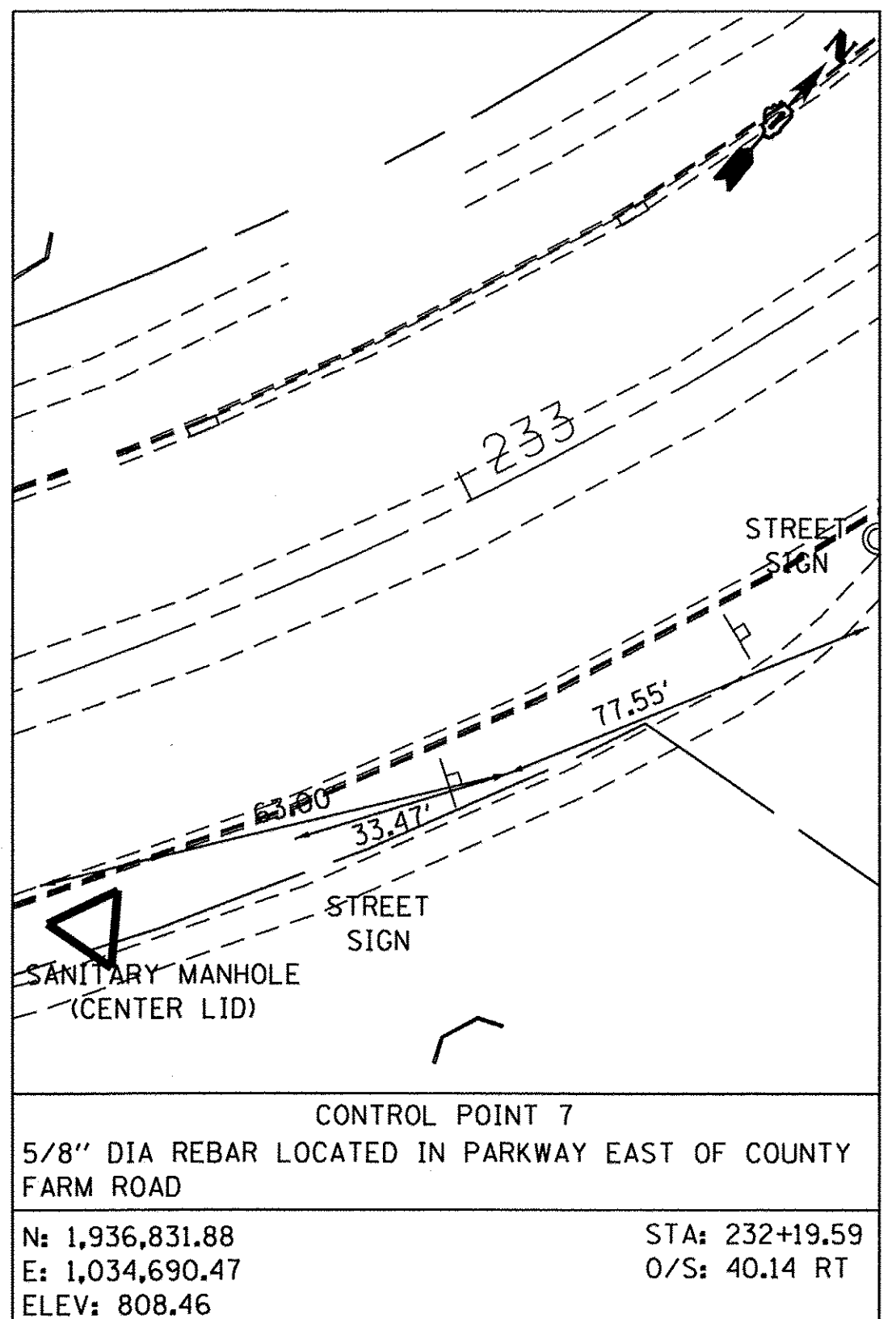
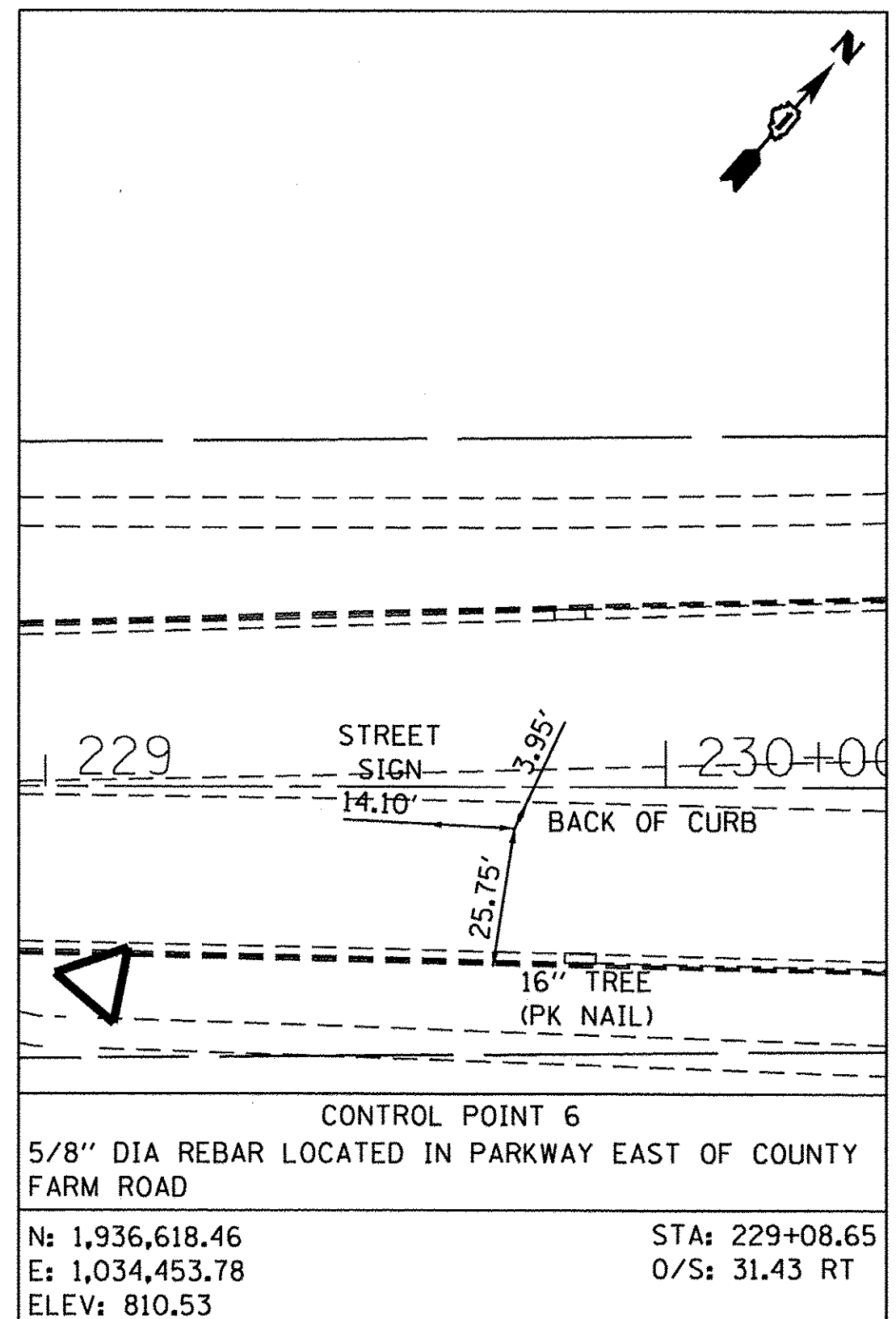
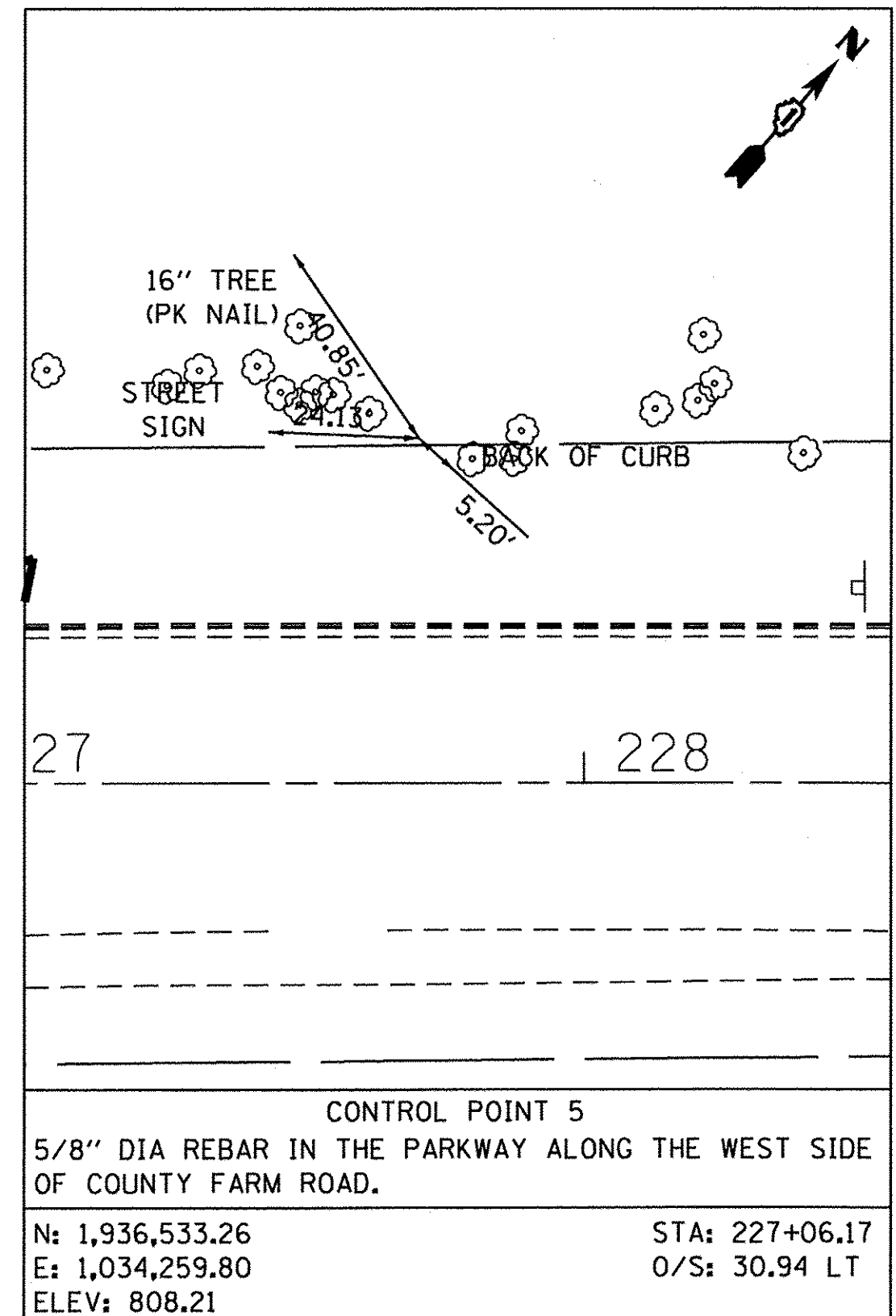
SCALE: 1" = 50'
 SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|--------------------|----------------|--------|---------------------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 17 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |



| DESCRIPTION | STATION | NORTHING | EASTING |
|-------------|-----------|--------------|--------------|
| PT STATION | 226+98.11 | 1,936,504.57 | 1,034,273.93 |
| PC STATION | 230+87.58 | 1,936,759.24 | 1,034,568.62 |
| PT STATION | 235+99.49 | 1,937,210.24 | 1,034,776.29 |

EXIST. CURVE EXCOUNTY_29
 PI STA. = 233+60.28
 Δ = 48° 46' 04" (LT)
 D = 9° 48' 01"
 R = 584.63'
 T = 285.00'
 L = 497.61'
 E = 59.06'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 230+87.58
 P.T. STA. = 235+99.49



DATE PLOTTED = 3/8/2017 4:48:54 PM
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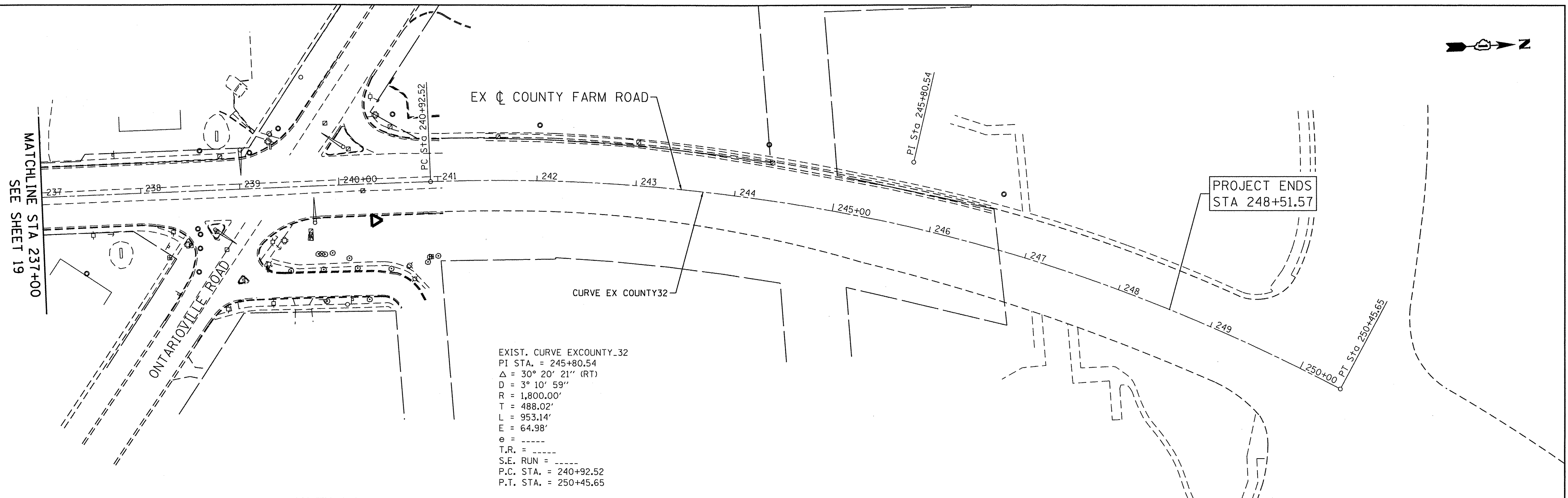


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|-----------------------------|------------------|-----------|
| USER NAME = mdebo | DESIGNED - ES | REVISED - |
| PLOT SCALE = 100.0000' / 1" | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|---|----------------------------------|
| COUNTY FARM ROAD IMPROVEMENTS ALIGNMENT, TIES AND BENCHMARKS | |
| SCALE: 1" = 50' | SHEET NO. OF SHEETS STA. TO STA. |

| | | | | |
|-----------------------------|------------------------|---------------|-----------------|--------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 19 |
| CONTRACT NO. 61D62 | | | | |
| [ILLINOIS] FED. AID PROJECT | | | | |



EXIST. CURVE EXCOUNTY_32
 PI STA. = 245+80.54
 $\Delta = 30^\circ 20' 21''$ (RT)
 $D = 3^\circ 10' 59''$
 $R = 1,800.00'$
 $T = 488.02'$
 $L = 953.14'$
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 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 P.C. STA. = 240+92.52
 P.T. STA. = 250+45.65

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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 6507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: chicago@clorba.com

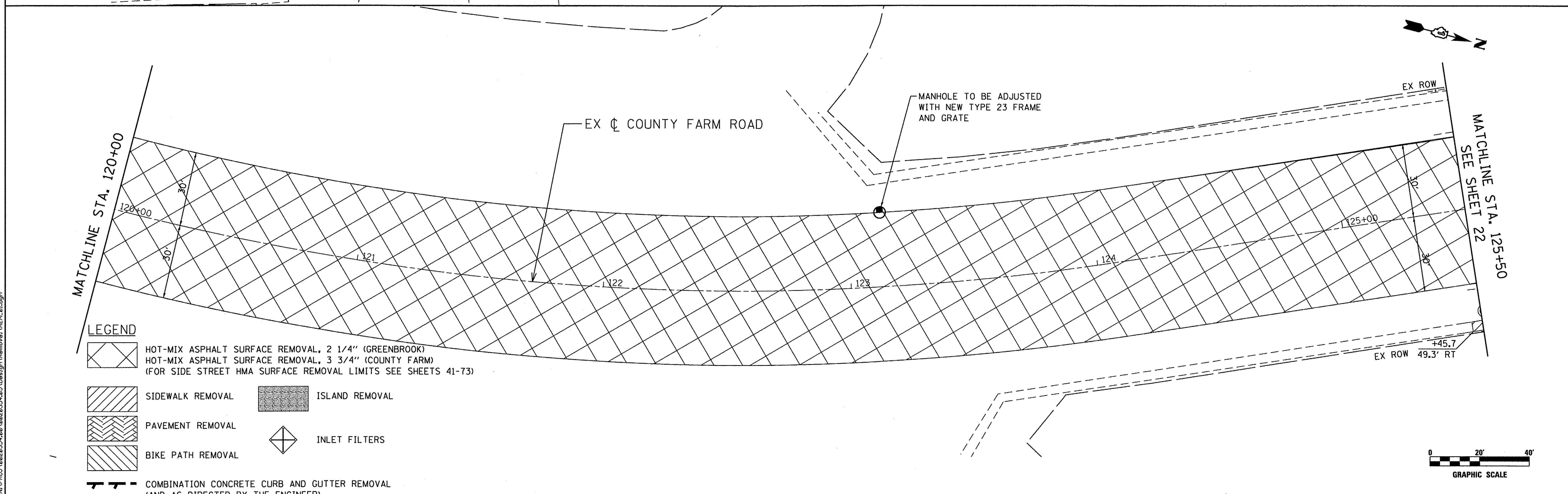
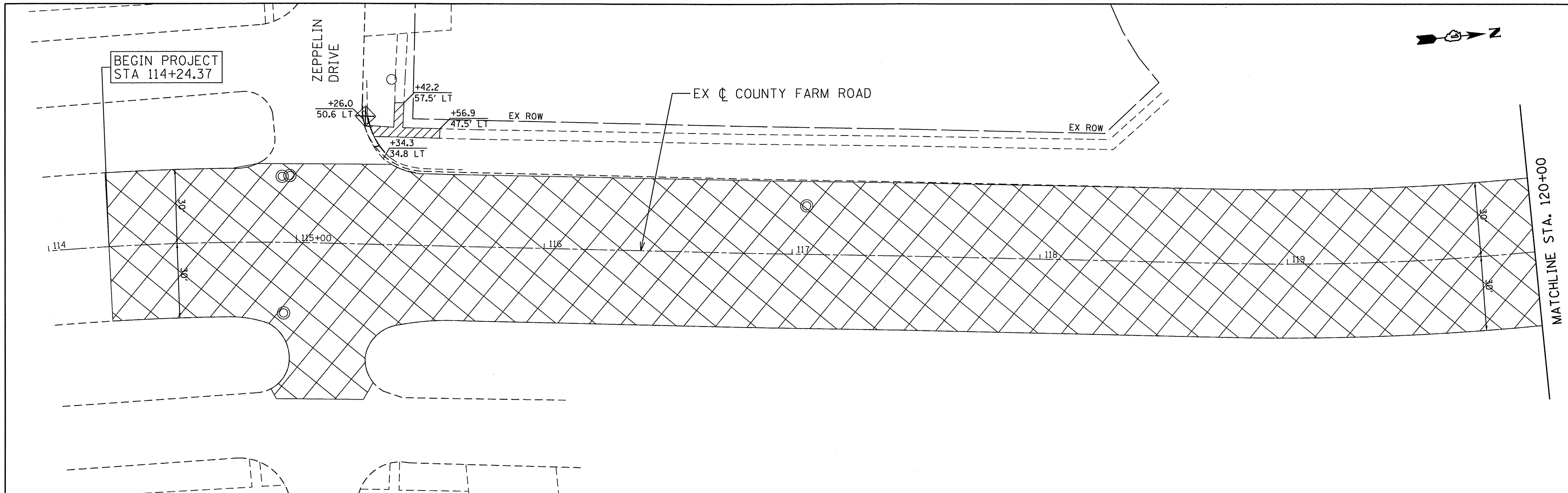
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| USER NAME = mdeabou | DESIGNED - ES | REVISED - |
| PLOT SCALE = 100.0000' / 1in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
 ALIGNMENT, TIES AND BENCHMARKS**

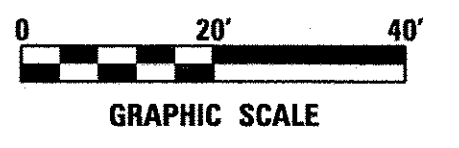
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| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 362 | 14-00179-31-SP | DUPAGE | 99 | 20 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |



LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
- HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
(FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- BIKE PATH REMOVAL
- ISLAND REMOVAL
- INLET FILTERS
- COMBINATION CONCRETE CURB AND GUTTER REMOVAL
(AND AS DIRECTED BY THE ENGINEER)



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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 6507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60636
 Tel: 773.776.4509 Fax: 773.776.4014
 Email: clorba@clorba.com

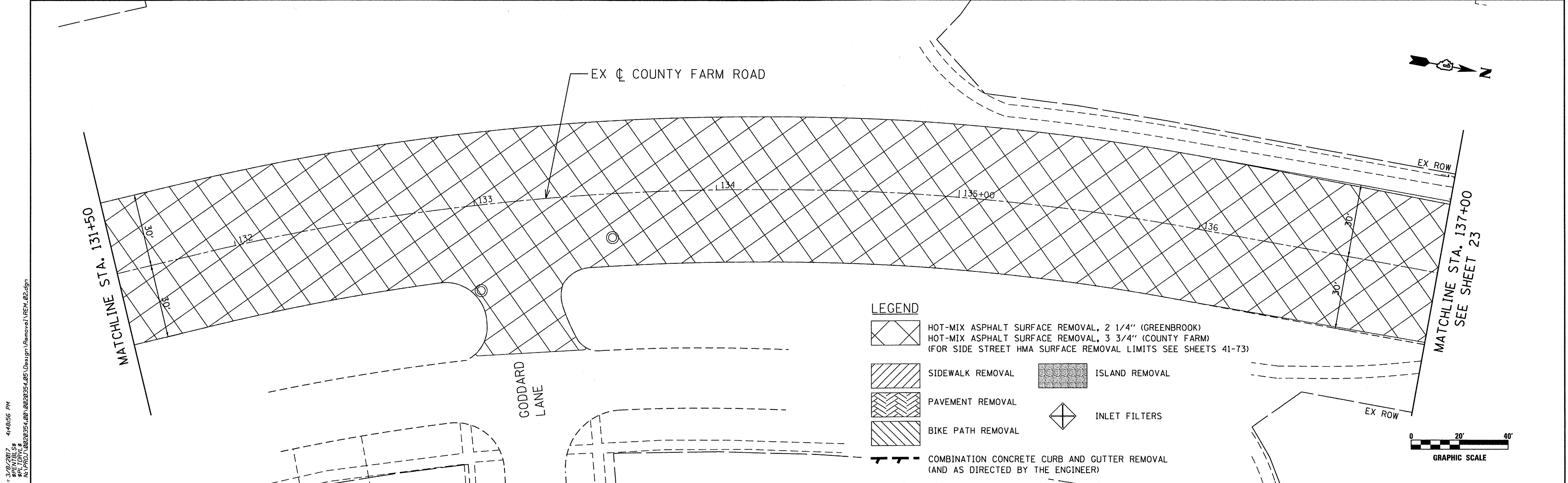
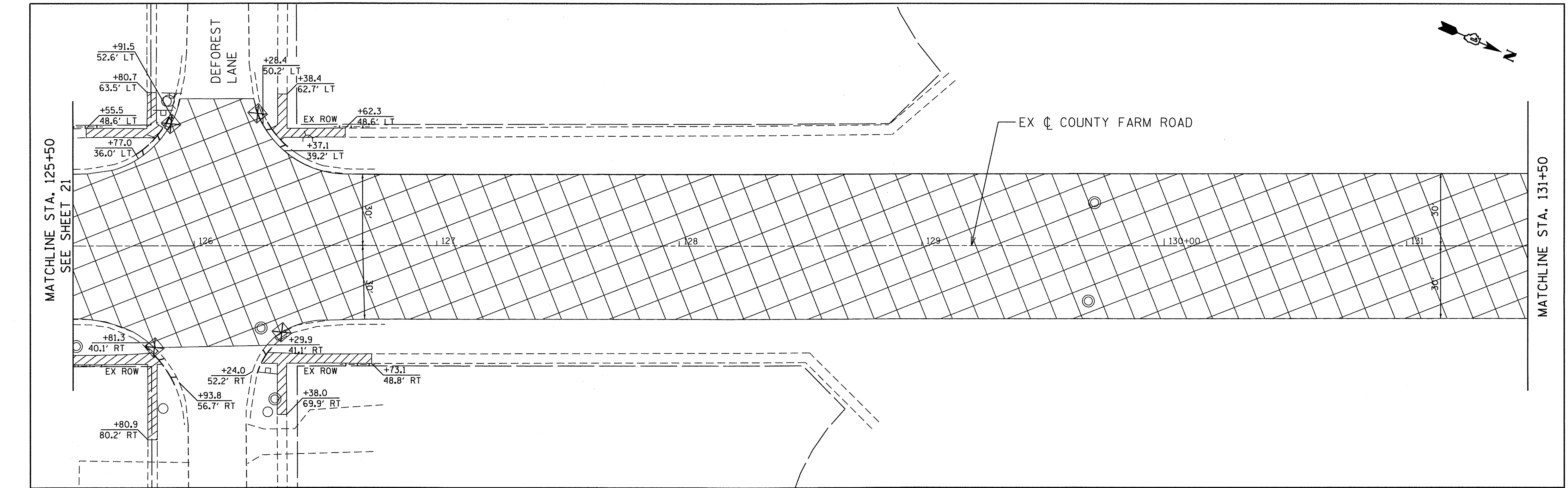
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| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

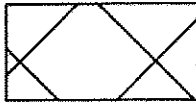
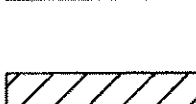


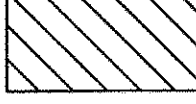
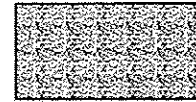


**COUNTY FARM ROAD IMPROVEMENTS
 REMOVAL PLAN**

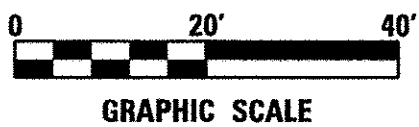
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| | | | | |
|---------------------------|------------------------|---------------|-----------------|--------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 21 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



LEGEND

-  HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
-  HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
(FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  BIKE PATH REMOVAL
-  ISLAND REMOVAL
-  INLET FILTERS
-  COMBINATION CONCRETE CURB AND GUTTER REMOVAL
(AND AS DIRECTED BY THE ENGINEER)



DATE PLOTTED = 3/8/2017 4:48:56 PM
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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 2507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60636
 Tel: 773.775.4209 Fax: 773.775.4014
 Email: clorba@clorba.com

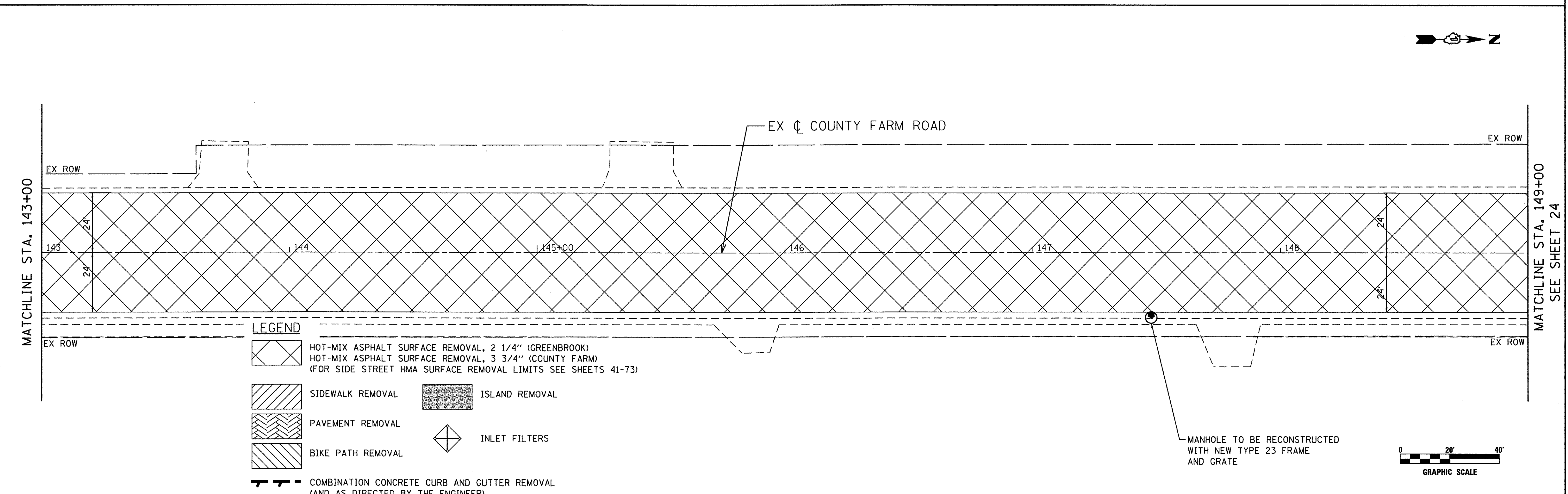
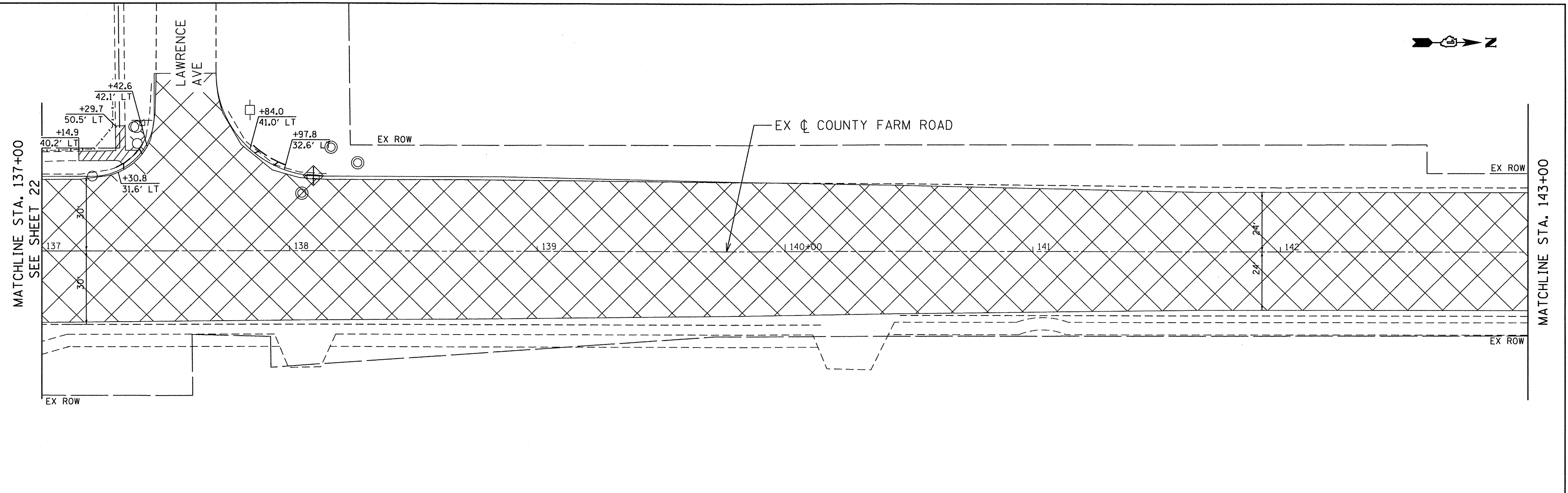
USER NAME = mdoboub
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 DRAWN - NT / AMH
 CHECKED - ES
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 PLOT DATE = 3/8/2017

DESIGNED - ES
 DRAWN - NT / AMH
 CHECKED - ES
 DATE - JAN 2017
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
 REMOVAL PLAN**
 SCALE: 1" = 20'
 SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|--------------------|------------------------|---------------|-----------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 22 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |



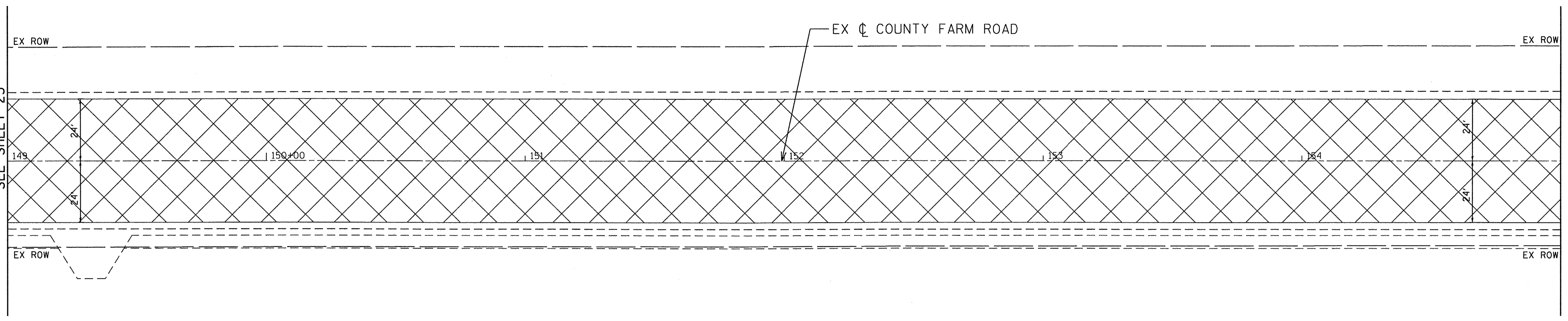
- LEGEND**
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
 - HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
 - (FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
 - SIDEWALK REMOVAL
 - ISLAND REMOVAL
 - PAVEMENT REMOVAL
 - BIKE PATH REMOVAL
 - INLET FILTERS
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL (AND AS DIRECTED BY THE ENGINEER)

DATE PLOTTED = 3/8/2017 4:48:57 PM
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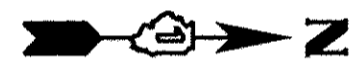
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|--|-----------------------------|-----------------|------------|---|---|-----------|----|---------------------------|---------------------------|------------------|-----------------------|--------------------|
| | USER NAME = mdboub | DESIGNED - ES | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | COUNTY FARM ROAD IMPROVEMENTS REMOVAL PLAN | | | FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 23 |
| | PLOT SCALE = 40.0000' / in. | CHECKED - ES | REVISIED - | | SCALE: 1" = 20' | SHEET NO. | OF | SHEETS | STA. | TO STA. | CONTRACT NO. 61D62 | |
| | PLOT DATE = 3/8/2017 | DATE - JAN 2017 | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | | | |



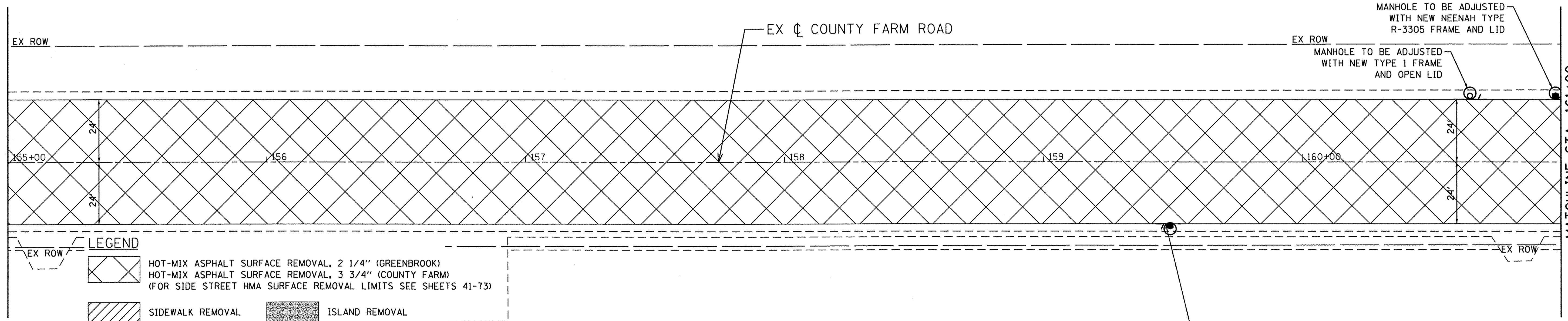
MATCHLINE STA. 149+00
SEE SHEET 23



MATCHLINE STA. 155+00



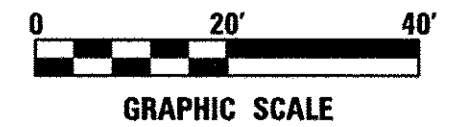
MATCHLINE STA. 155+00



MATCHLINE STA. 161+00
SEE SHEET 25

LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
- HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
(FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- BIKE PATH REMOVAL
- ISLAND REMOVAL
- INLET FILTERS
- COMBINATION CONCRETE CURB AND GUTTER REMOVAL
(AND AS DIRECTED BY THE ENGINEER)



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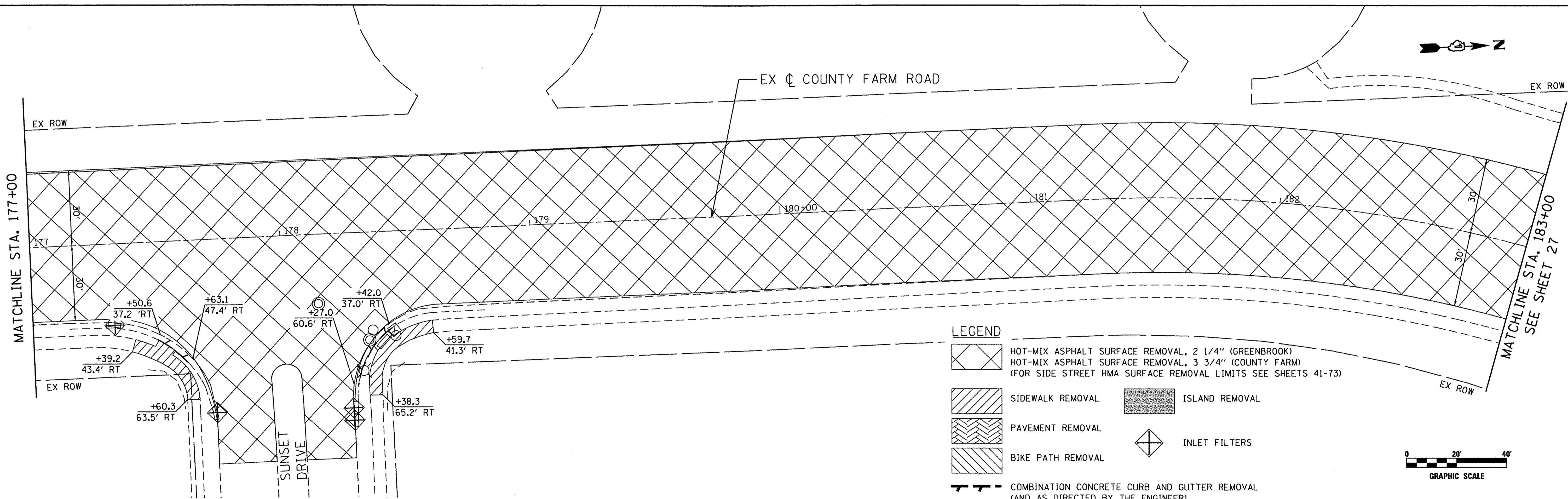
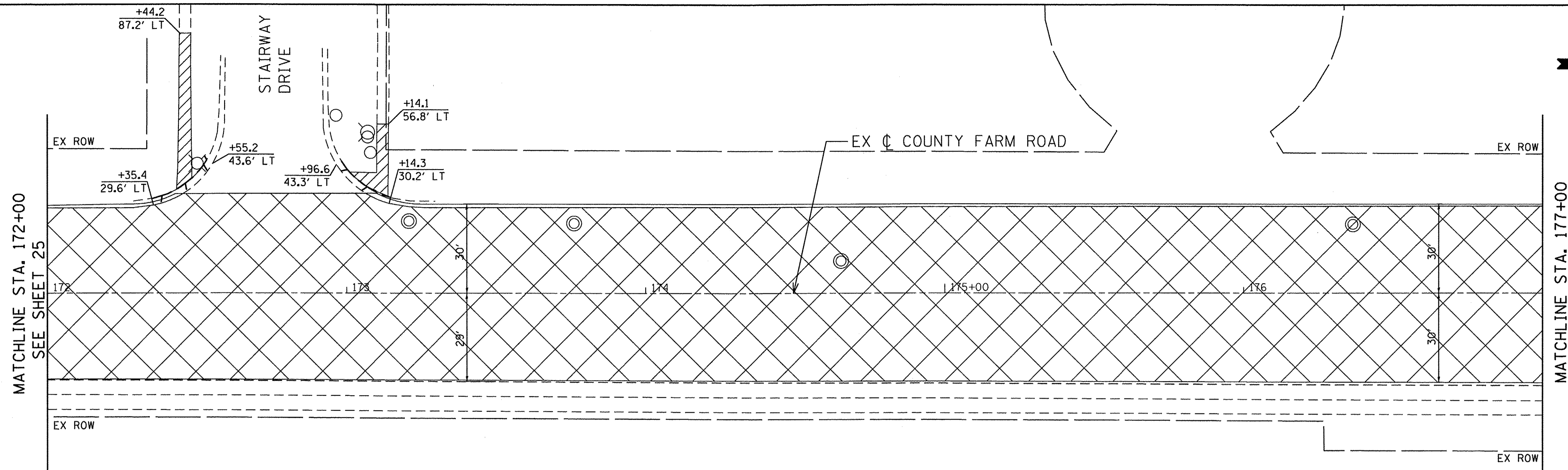
ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 8507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: chicago@clorba.com

| | | |
|-----------------------------|------------------|-----------|
| USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |


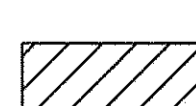

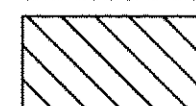

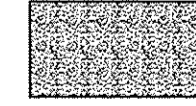


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

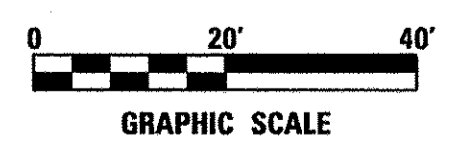
| COUNTY FARM ROAD IMPROVEMENTS REMOVAL PLAN | | | |
|---|-----------|-----------|--------------|
| SCALE: 1" = 20' | SHEET NO. | OF SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 24 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



LEGEND

-  HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
-  HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
(FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  BIKE PATH REMOVAL
-  ISLAND REMOVAL
-  INLET FILTERS
-  COMBINATION CONCRETE CURB AND GUTTER REMOVAL
(AND AS DIRECTED BY THE ENGINEER)



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ENGINEERING CONSULTANT

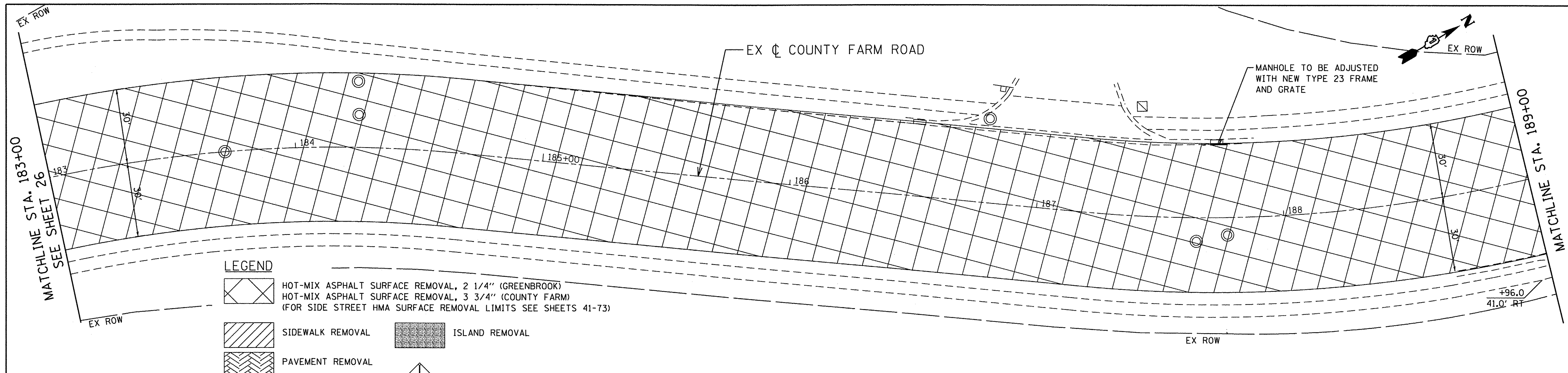
 CONSULTING ENGINEERS
 6507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60636
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: chicago@clorba.com

| | | |
|-----------------------------|------------------|-----------|
| USER NAME = mdaboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0296' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

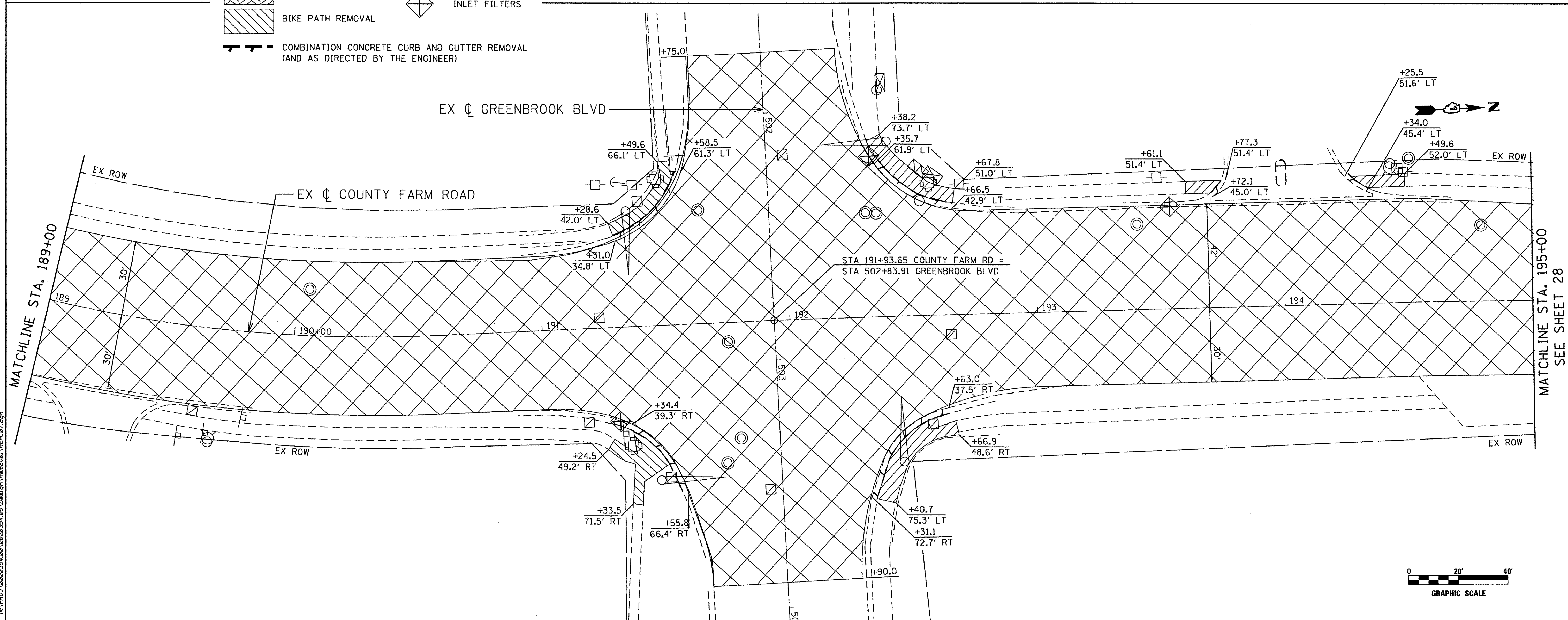
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|---|-----------|-----------|--------------|
| COUNTY FARM ROAD IMPROVEMENTS REMOVAL PLAN | | | |
| SCALE: 1" = 20' | SHEET NO. | OF SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|---------------------------|------------------|--------------------|-----------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 26 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



- LEGEND**
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
 - HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
(FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
 - SIDEWALK REMOVAL
 - PAVEMENT REMOVAL
 - BIKE PATH REMOVAL
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL
(AND AS DIRECTED BY THE ENGINEER)
 - ISLAND REMOVAL
 - INLET FILTERS



DATE PLOTTED = 3/9/2017 8:01:50 AM
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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 8507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: clorba@clorba.com

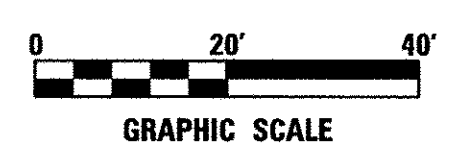
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| PLOT DATE = 3/9/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

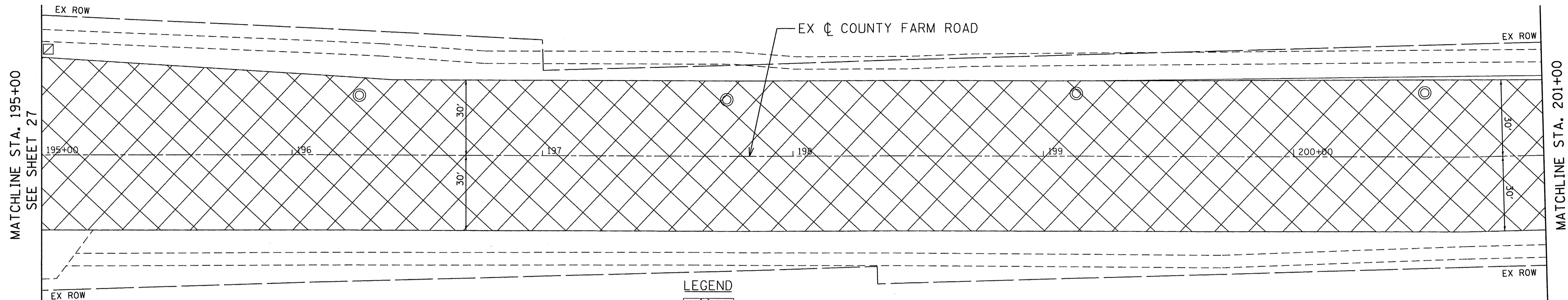
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**




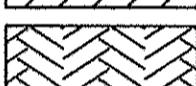
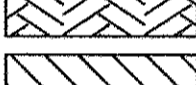
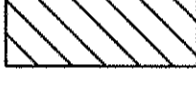


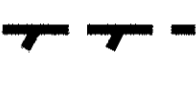
**COUNTY FARM ROAD IMPROVEMENTS
REMOVAL PLAN**

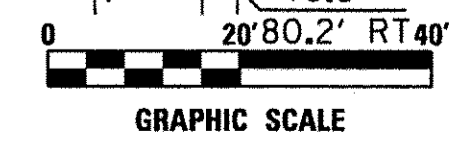
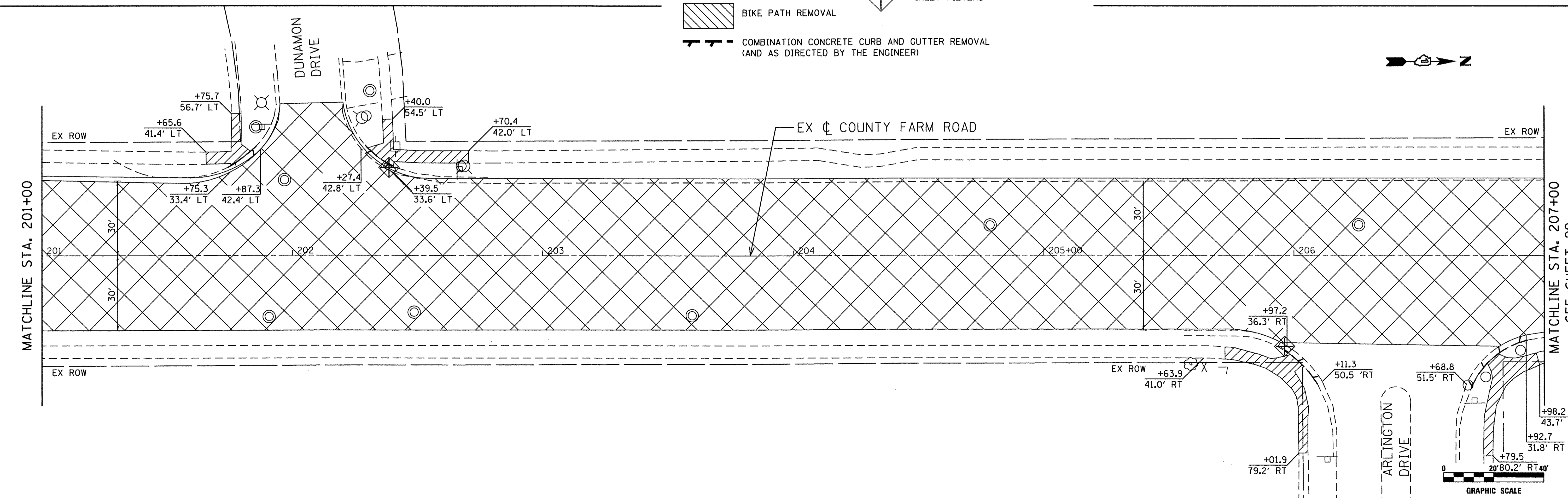
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| | | | | |
|--------------------|------------------------|---------------|-----------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 27 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |





- LEGEND**
-  HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
 -  HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
 -  (FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
 -  SIDEWALK REMOVAL
 -  PAVEMENT REMOVAL
 -  BIKE PATH REMOVAL
 -  ISLAND REMOVAL
 -  INLET FILTERS
 -  COMBINATION CONCRETE CURB AND GUTTER REMOVAL (AND AS DIRECTED BY THE ENGINEER)



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ENGINEERING CONSULTANT

Clorba Group, Inc.
 CONSULTING ENGINEERS
 3507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4209 Fax: 773.775.4014
 Email: clorba@clorba.com

| | | |
|-----------------------------|------------------|-----------|
| USER NAME = mdebaub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

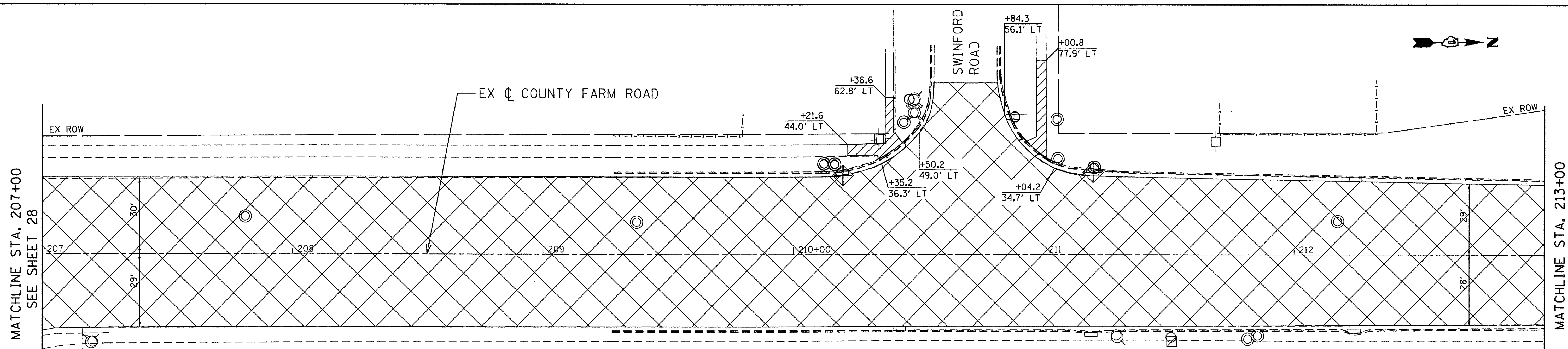
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
REMOVAL PLAN**

SCALE: 1" = 20'

| SHEET NO. | OF SHEETS | STA. | TO STA. |
|-----------|-----------|------|---------|
| | | | |

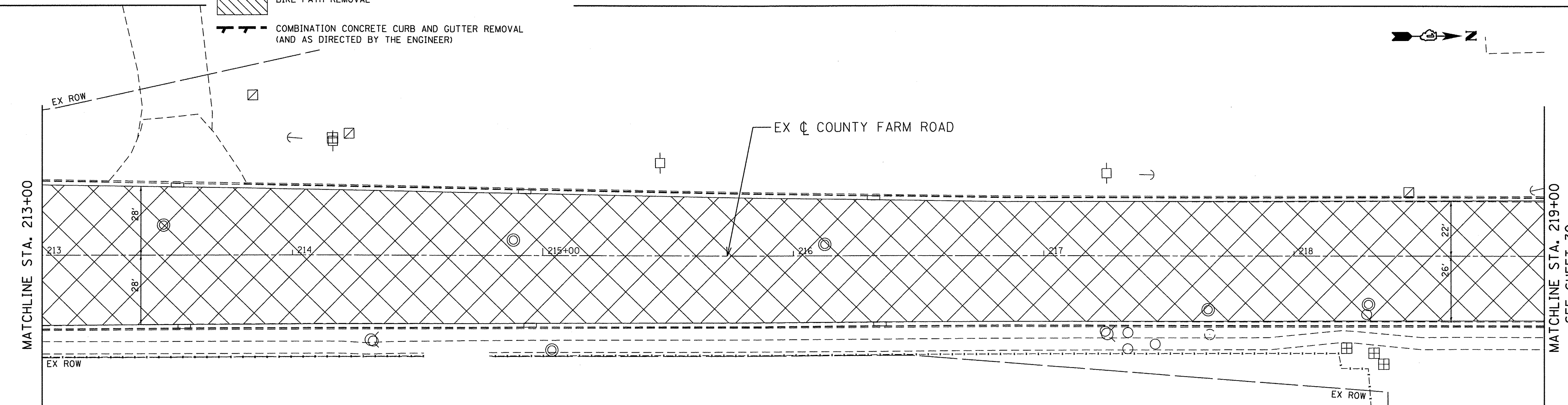
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 362 | 14-00179-31-SP | DUPAGE | 99 | 28 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



MATCHLINE STA. 207+00
SEE SHEET 28

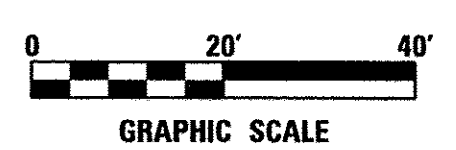
MATCHLINE STA. 213+00

- LEGEND**
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
 - HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
(FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
 - SIDEWALK REMOVAL
 - PAVEMENT REMOVAL
 - BIKE PATH REMOVAL
 - ISLAND REMOVAL
 - INLET FILTERS
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL
(AND AS DIRECTED BY THE ENGINEER)



MATCHLINE STA. 213+00

MATCHLINE STA. 219+00
SEE SHEET 30



DATE PLOTTED = 3/8/2017 4:49:00 PM
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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4209 Fax: 773.775.4014
 Email: Chicago@clorba.com

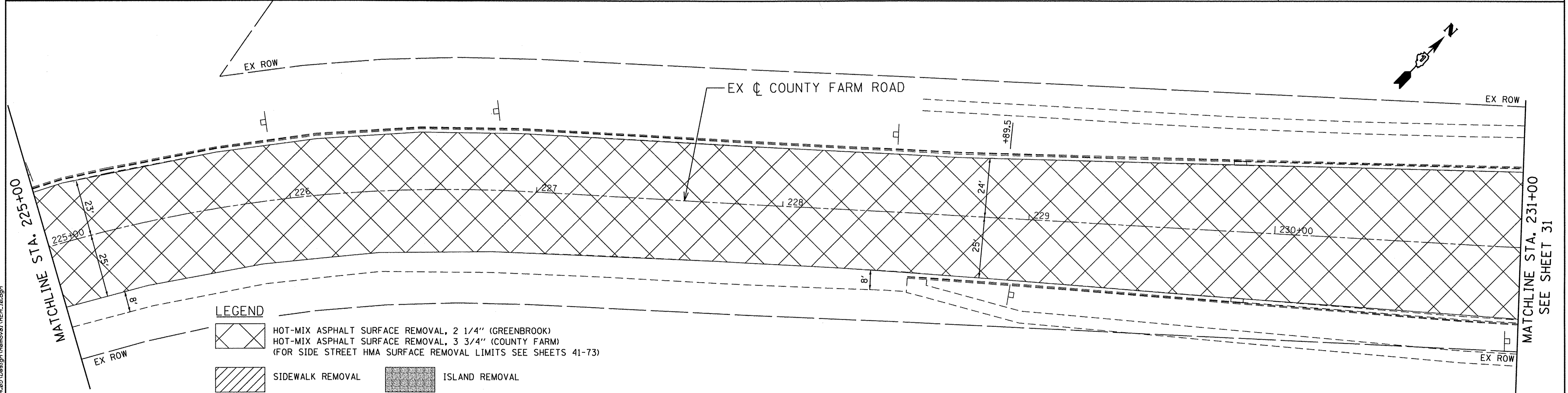
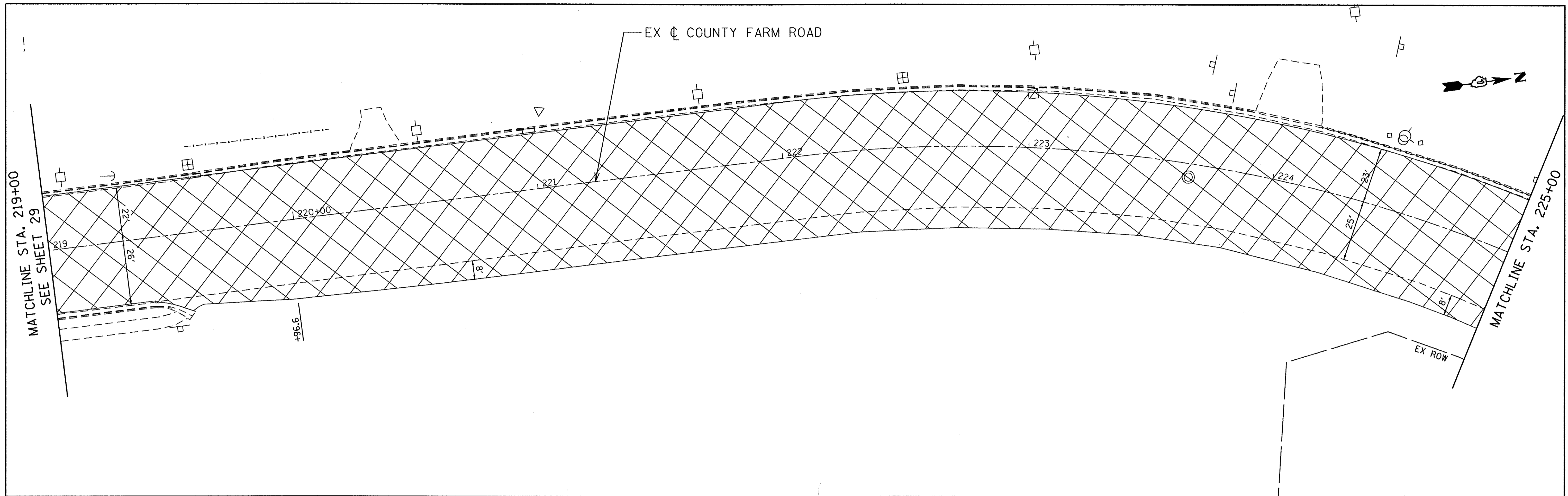
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|----------------------------|------------------|-----------|
| USER NAME = mdebouw | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / 1" | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

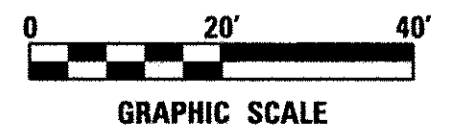
**COUNTY FARM ROAD IMPROVEMENTS
REMOVAL PLAN**

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

| | | | | |
|---------------------------|------------------------|---------------|-----------------|--------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 29 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



- LEGEND**
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
 - HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
(FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
 - SIDEWALK REMOVAL
 - PAVEMENT REMOVAL
 - BIKE PATH REMOVAL
 - ISLAND REMOVAL
 - INLET FILTERS
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL
(AND AS DIRECTED BY THE ENGINEER)



DATE PLOTTED = 3/8/2017 4:49:01 PM
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Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60636
 Tel: 773.775.4000 Fax 773.775.4014
 Email: clorba@clorba.com

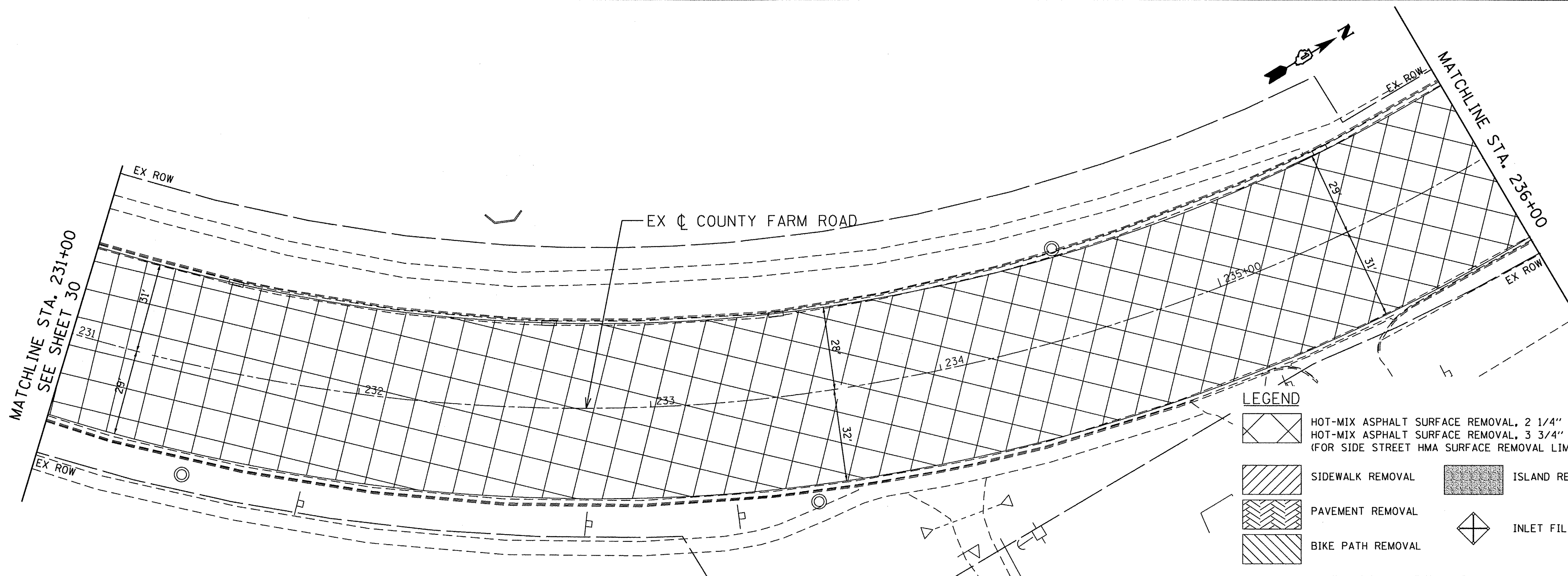
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| USER NAME = mdoboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

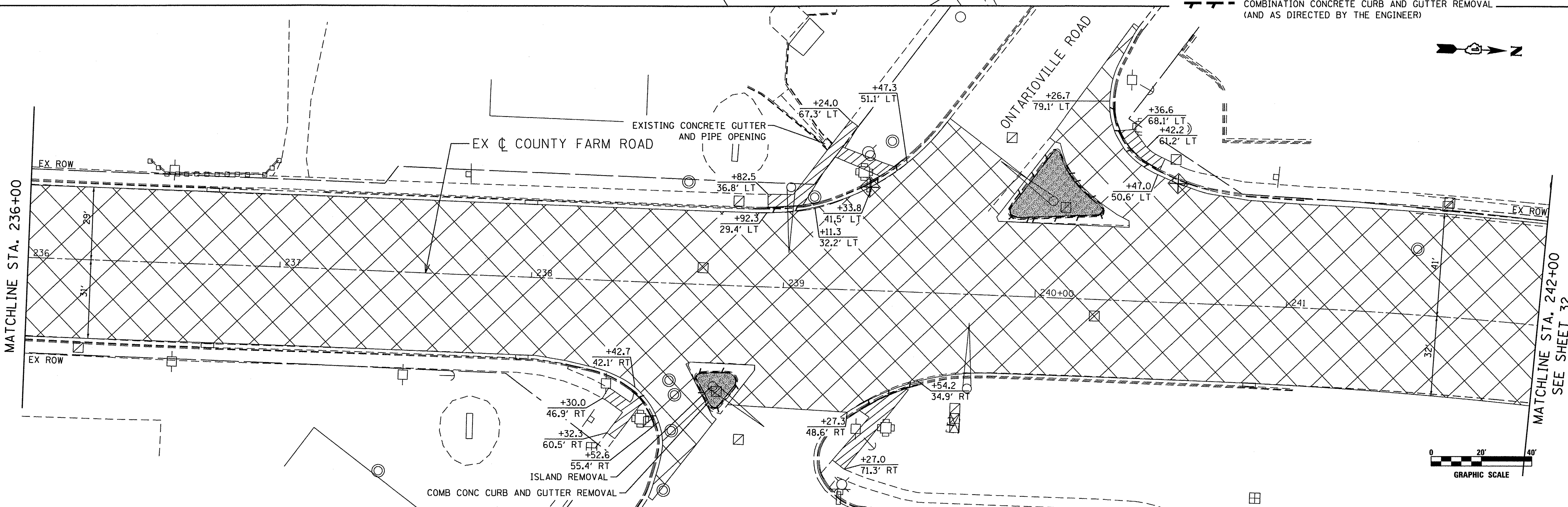
**COUNTY FARM ROAD IMPROVEMENTS
 REMOVAL PLAN**

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

| | | | | |
|--------------------|---------------------------|------------------|--------------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 30 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |



- LEGEND**
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
 - HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
(FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
 - SIDEWALK REMOVAL
 - PAVEMENT REMOVAL
 - BIKE PATH REMOVAL
 - ISLAND REMOVAL
 - INLET FILTERS
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL
(AND AS DIRECTED BY THE ENGINEER)



DATE PLOTTED = 3/8/2017 4:49:01 PM
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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 2507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4009 Fax 773.775.4014
 Email: chicago@clorba.com

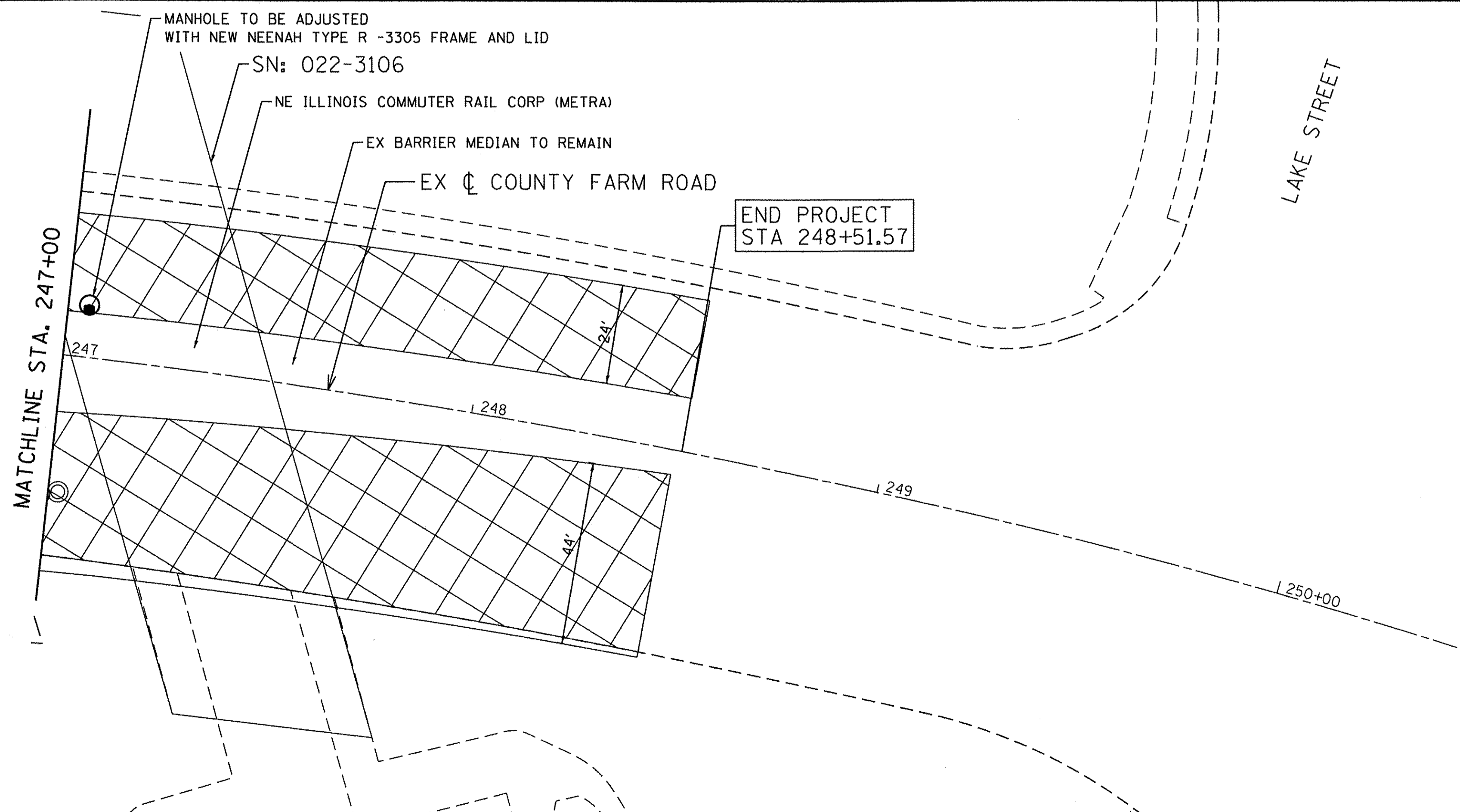
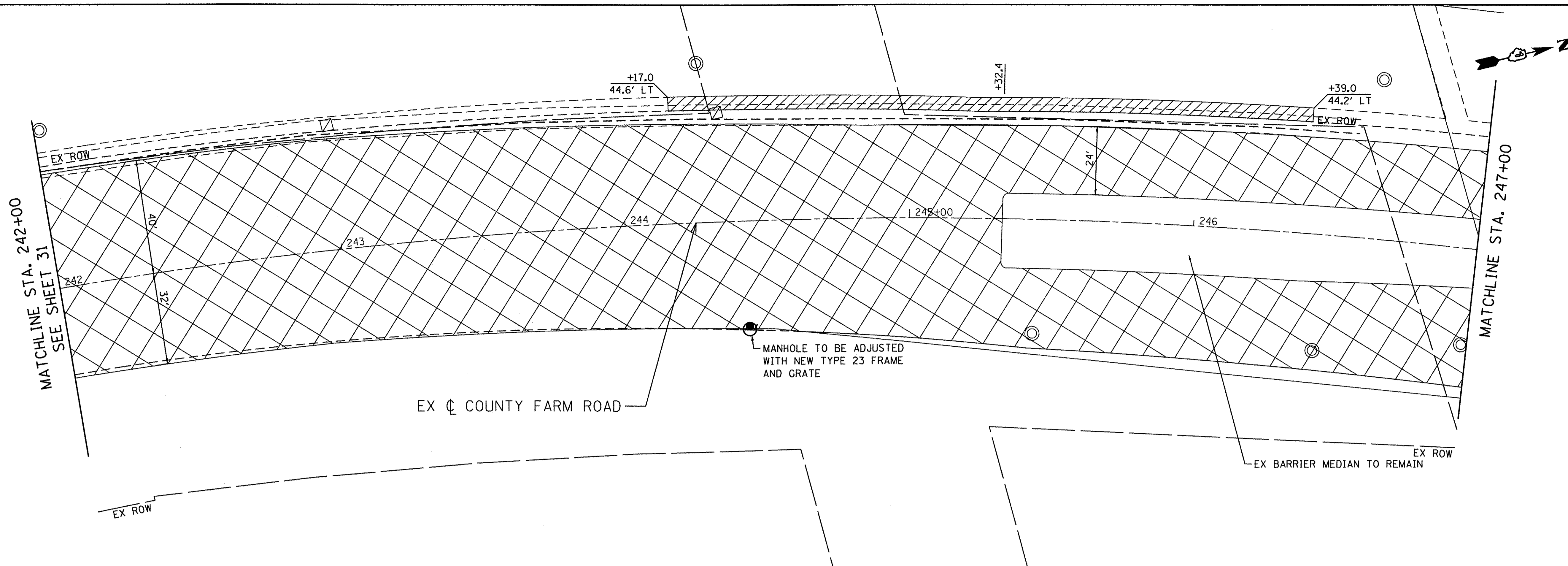
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| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
 REMOVAL PLAN**

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

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 31 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



- LEGEND**
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" (GREENBROOK)
 - HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" (COUNTY FARM)
(FOR SIDE STREET HMA SURFACE REMOVAL LIMITS SEE SHEETS 41-73)
 - SIDEWALK REMOVAL
 - PAVEMENT REMOVAL
 - BIKE PATH REMOVAL
 - ISLAND REMOVAL
 - INLET FILTERS
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL
(AND AS DIRECTED BY THE ENGINEER)



DATE PLOTTED = 3/8/2017 4:49:02 PM
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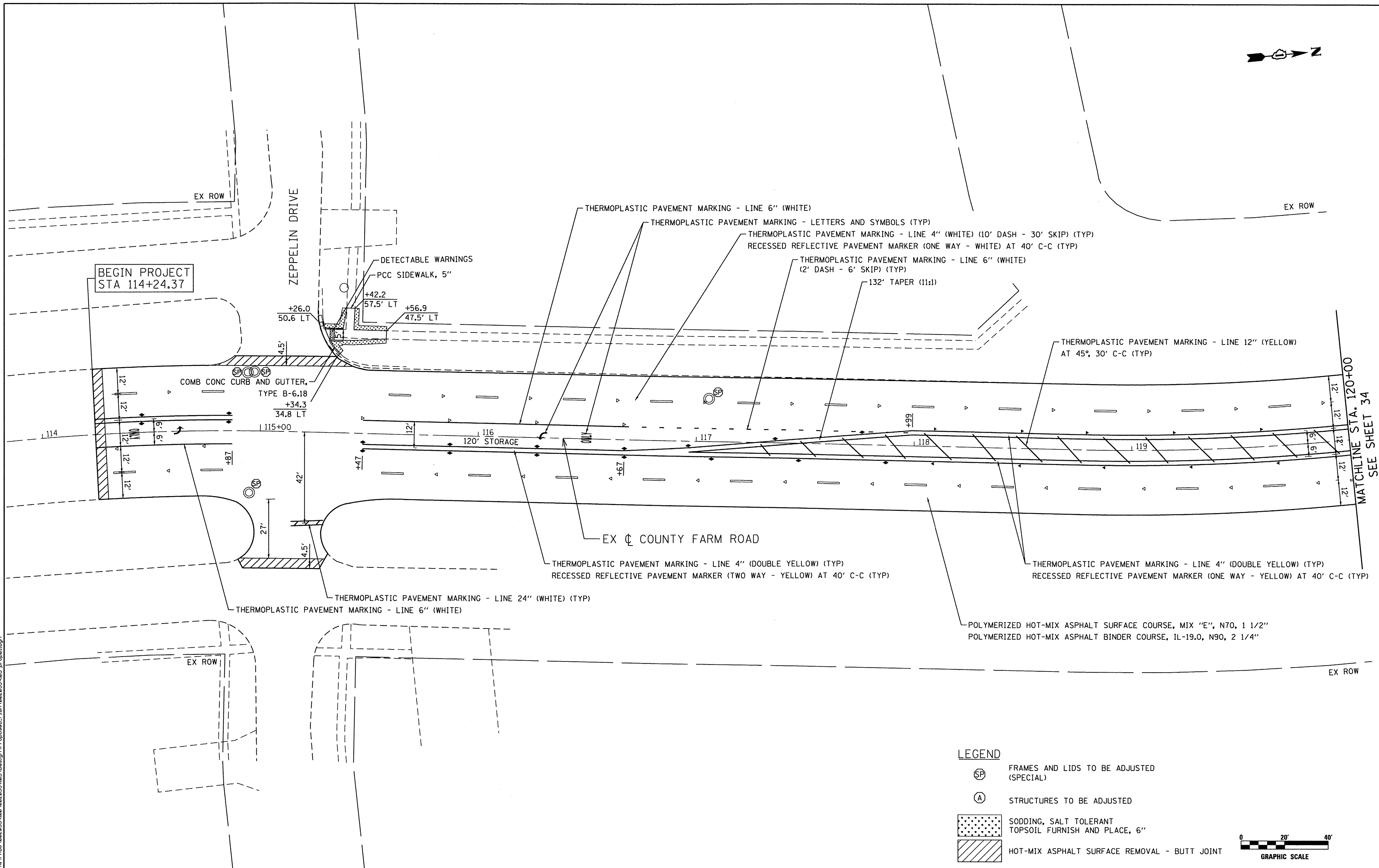
ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4209 Fax 773.775.4014
 Email: chicago@clorba.com

| | | |
|-----------------------------|------------------|-----------|
| USER NAME = mdoabou | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




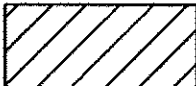
| COUNTY FARM ROAD IMPROVEMENTS REMOVAL PLAN | | | |
|---|-----------|-----------|--------------|
| SCALE: 1" = 20' | SHEET NO. | OF SHEETS | STA. TO STA. |

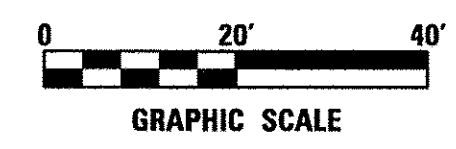
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| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 32 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |




MATCHLINE STA. 120+00
SEE SHEET 34

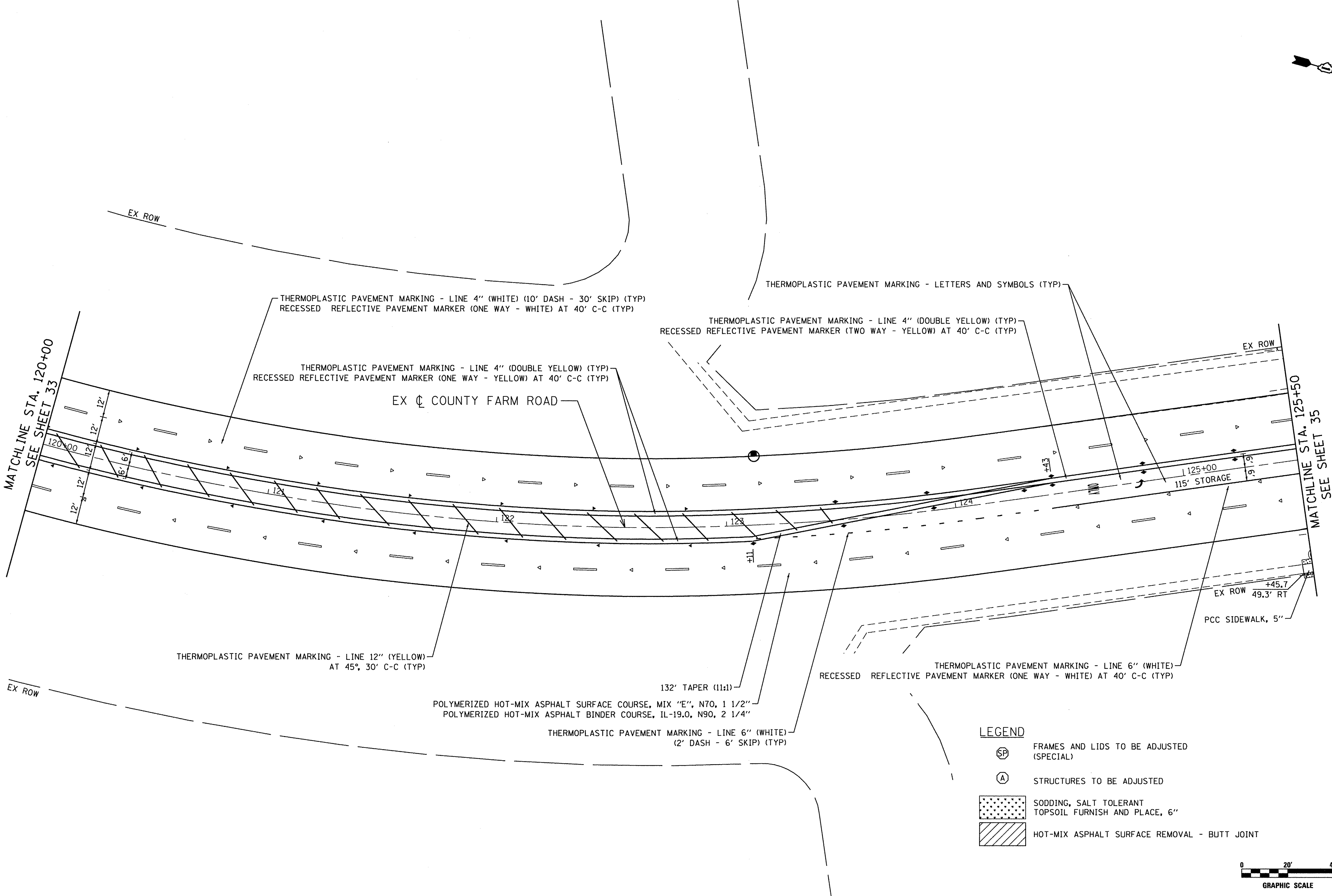
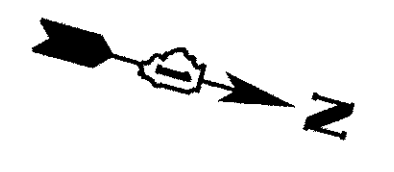
LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



DATE PLOTTED = 3/8/2017 4:49:03 PM
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FILE NAME = 14-00179-31-SP.dwg

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|---|--|------------------------------|----------------------|------------------|---|--|-----------|---------|----------------|--------------|---------------------------|--------------------|
|  | ENGINEERING CONSULTANT | USER NAME = mdoboub | DESIGNED - ES | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | COUNTY FARM ROAD IMPROVEMENTS PROPOSED PLAN | FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | CONSULTING ENGINEERS 5807 North Cumberland Avenue, Suite 402 Chicago, Illinois 60630 Tel: 773.775.4208 Fax: 773.775.4014 Email: chicago@clorba.com | PLOT SCALE = 40.0000' / 1" = | PLOT DATE = 3/8/2017 | DRAWN - NT / AMH | | | REVISED - | 362 | 14-00179-31-SP | DUPAGE | 99 | 33 |
| | | | | | | SCALE: 1" = 20' | SHEET NO. | OF | SHEETS | STA. | TO STA. | CONTRACT NO. 61D62 |
| | | | | | | | | | | | ILLINOIS FED. AID PROJECT | |



THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (10' DASH - 30' SKIP) (TYP)
 RECESSED REFLECTIVE PAVEMENT MARKER (ONE WAY - WHITE) AT 40' C-C (TYP)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) (TYP)
 RECESSED REFLECTIVE PAVEMENT MARKER (TWO WAY - YELLOW) AT 40' C-C (TYP)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) (TYP)
 RECESSED REFLECTIVE PAVEMENT MARKER (ONE WAY - YELLOW) AT 40' C-C (TYP)

EX COUNTY FARM ROAD

THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW)
 AT 45°, 30' C-C (TYP)

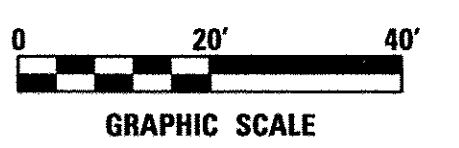
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 1/2"
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"

THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
 (2' DASH - 6' SKIP) (TYP)

THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
 RECESSED REFLECTIVE PAVEMENT MARKER (ONE WAY - WHITE) AT 40' C-C (TYP)

LEGEND

- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- STRUCTURES TO BE ADJUSTED
- SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: chicago@clorba.com

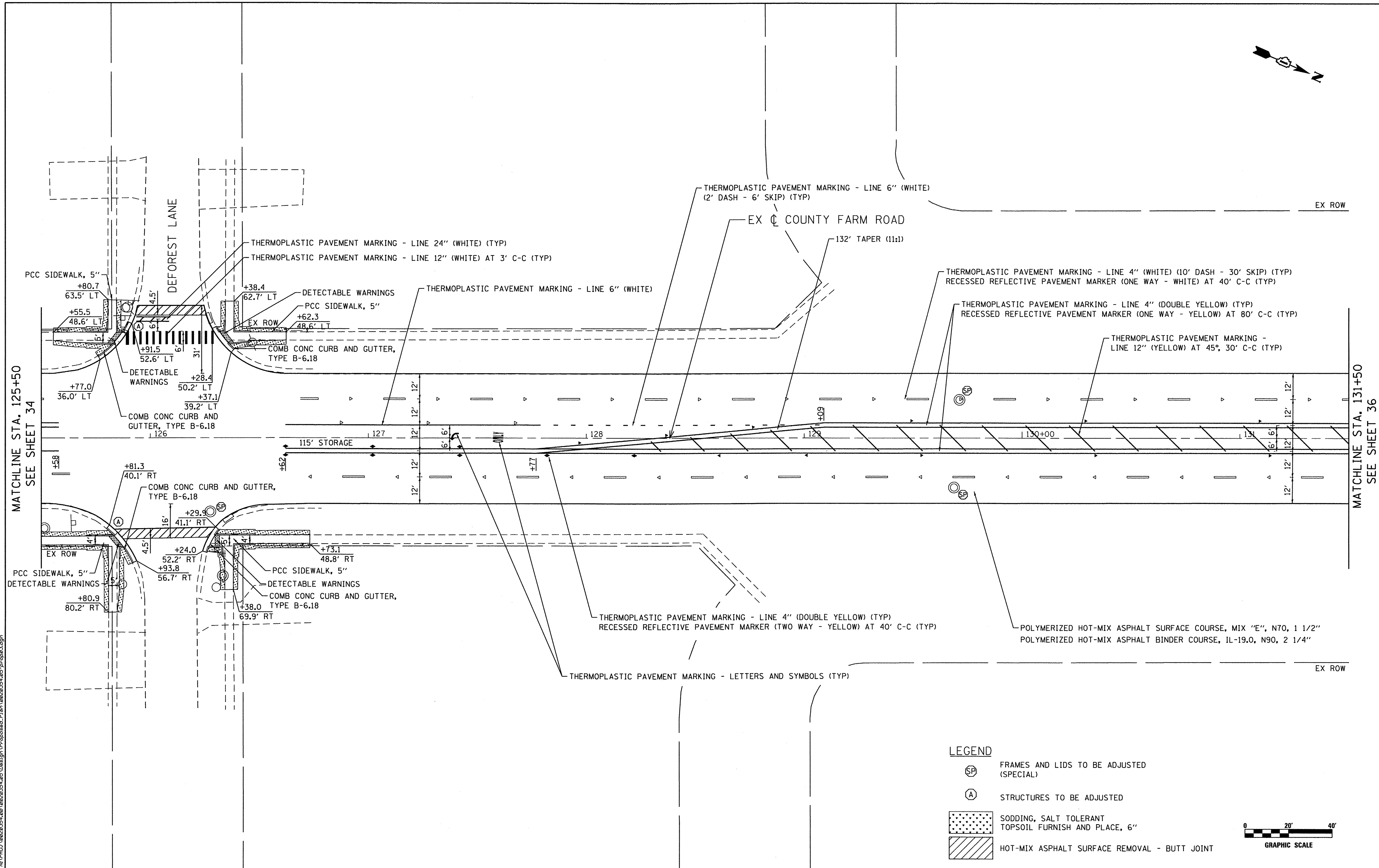
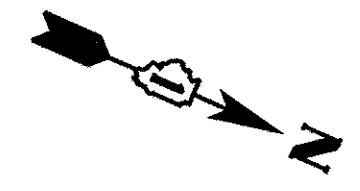
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| USER NAME = mdboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
 PROPOSED PLAN**

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

| | | | | |
|--------------------|----------------|--------|---------------------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 34 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

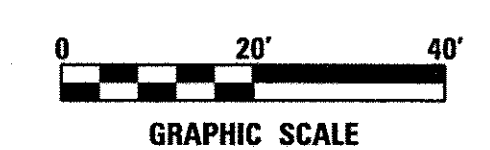


MATCHLINE STA. 125+50
SEE SHEET 34

MATCHLINE STA. 131+50
SEE SHEET 36

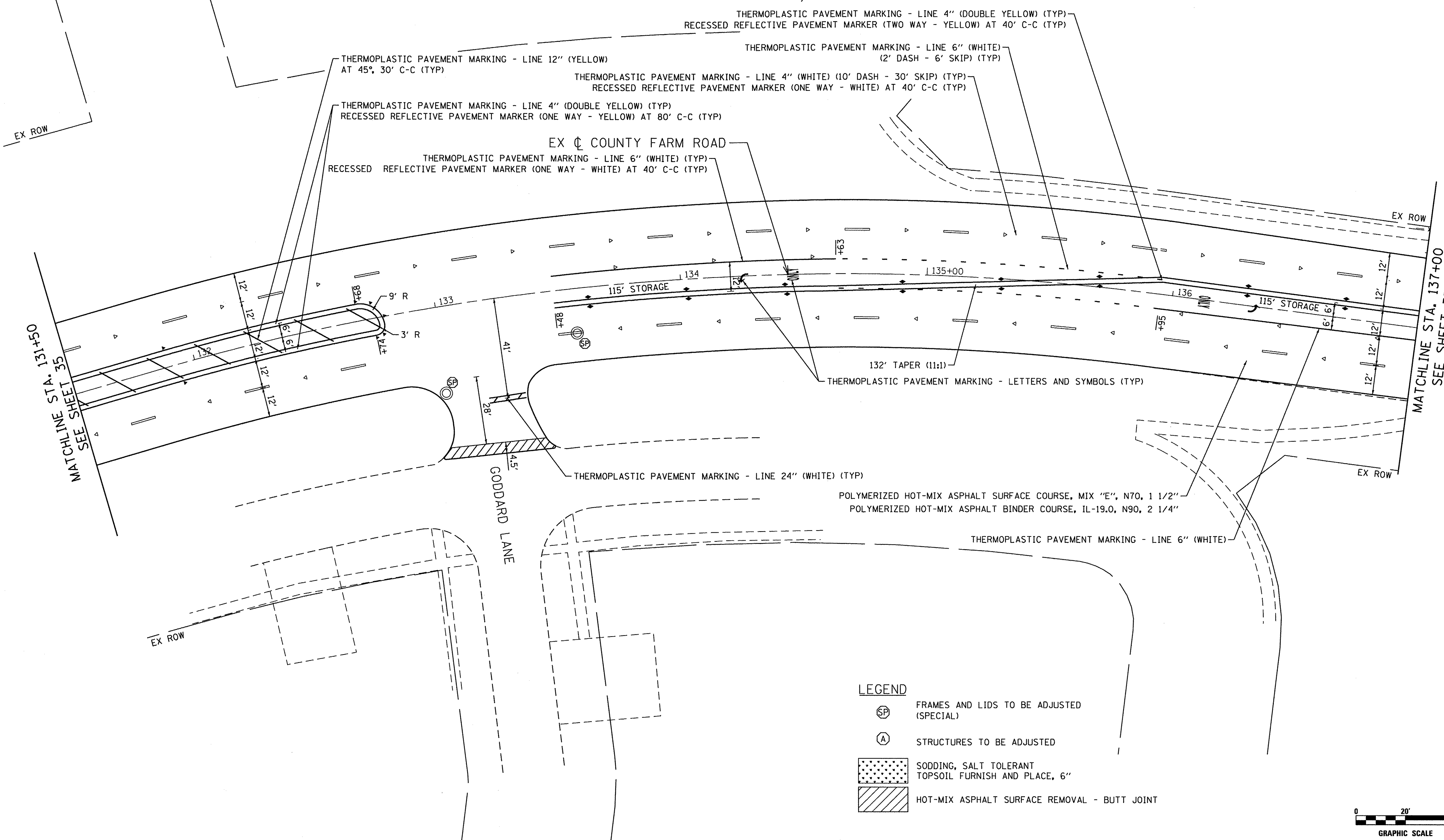
LEGEND

- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- STRUCTURES TO BE ADJUSTED
- SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT




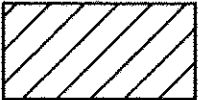


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|---|------------------------------|-----------------|-----------|---|--|--|--|---------------------------|------------------------|---------------|-----------------|--------------|
| Clorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60630 Tel: 773.775.4800 Fax: 773.775.4014 Email: Chicago@clorba.com | USER NAME = mdsabouh | DESIGNED - ES | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | COUNTY FARM ROAD IMPROVEMENTS PROPOSED PLAN | | | FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 35 |
| | PLOT SCALE = 40.0000' / 1" = | CHECKED - ES | REVISED - | | | | | SCALE: 1" = 20' | SHEET NO. | OF SHEETS | STA. | TO STA. |
| | PLOT DATE = 3/8/2017 | DATE - JAN 2017 | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | | | |



LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



DATE PLOTTED = 3/8/2017 4:49:05 PM
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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 8507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: Chicago@clorba.com

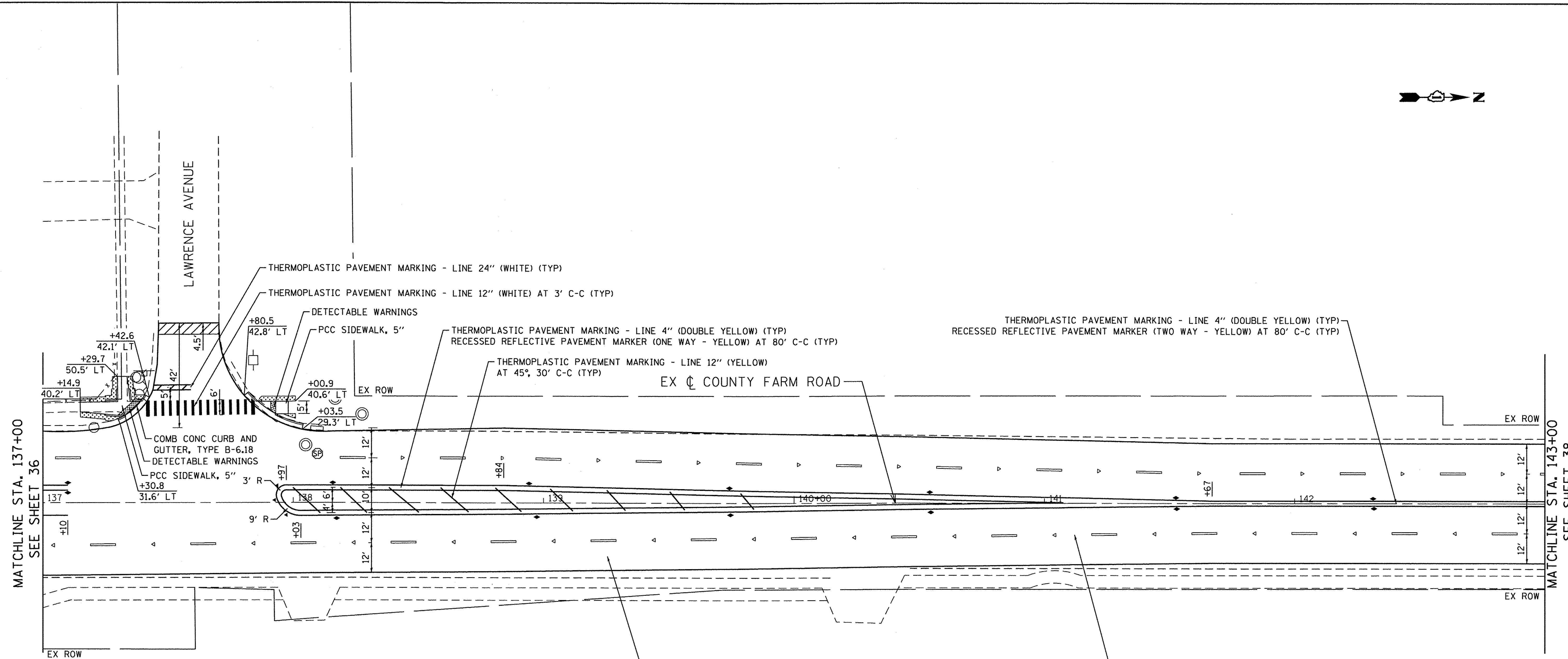
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| USER NAME = mdebaub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
 PROPOSED PLAN**

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

| | | | | |
|---------------------------|------------------------|---------------|-----------------|--------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 36 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



MATCHLINE STA. 137+00
SEE SHEET 36

MATCHLINE STA. 143+00
SEE SHEET 38

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 1/2"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (10' DASH - 30' SKIP) (TYP)
RECESSED REFLECTIVE PAVEMENT MARKER (ONE WAY - WHITE) AT 40' C-C (TYP)

LEGEND

- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- STRUCTURES TO BE ADJUSTED

SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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ENGINEERING CONSULTANT

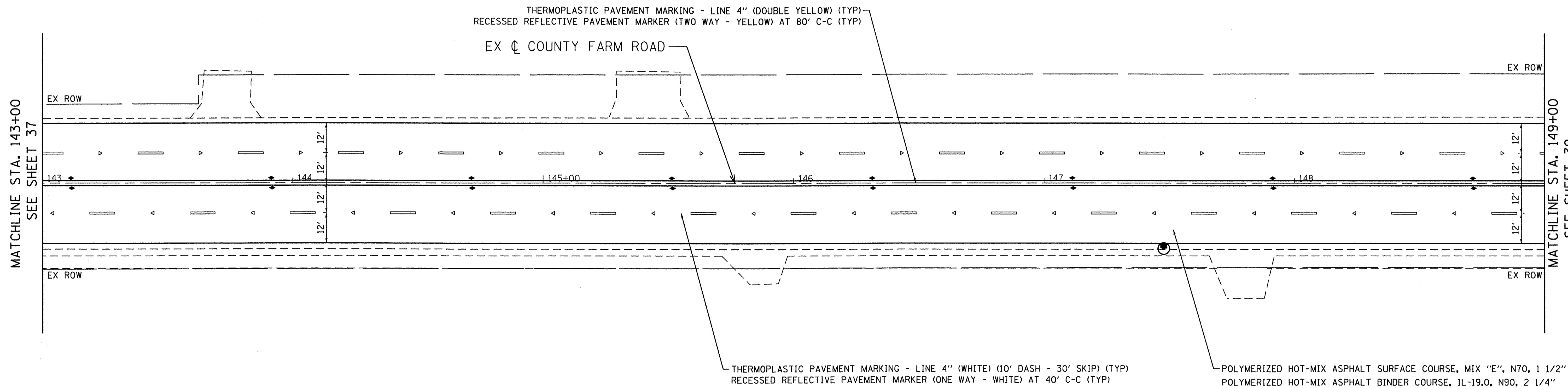
Clorba Group, Inc.
 CONSULTING ENGINEERS
 8507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60638
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: chicago@clorba.com

| | | |
|----------------------------|------------------|-----------|
| USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40,0000' / 1" | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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| COUNTY FARM ROAD IMPROVEMENTS PROPOSED PLAN | | | |
| SCALE: 1" = 20' | SHEET NO. | OF SHEETS | STA. TO STA. |




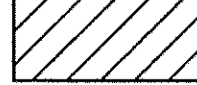
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| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 37 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



MATCHLINE STA. 143+00
SEE SHEET 37

MATCHLINE STA. 149+00
SEE SHEET 39

LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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ENGINEERING CONSULTANT

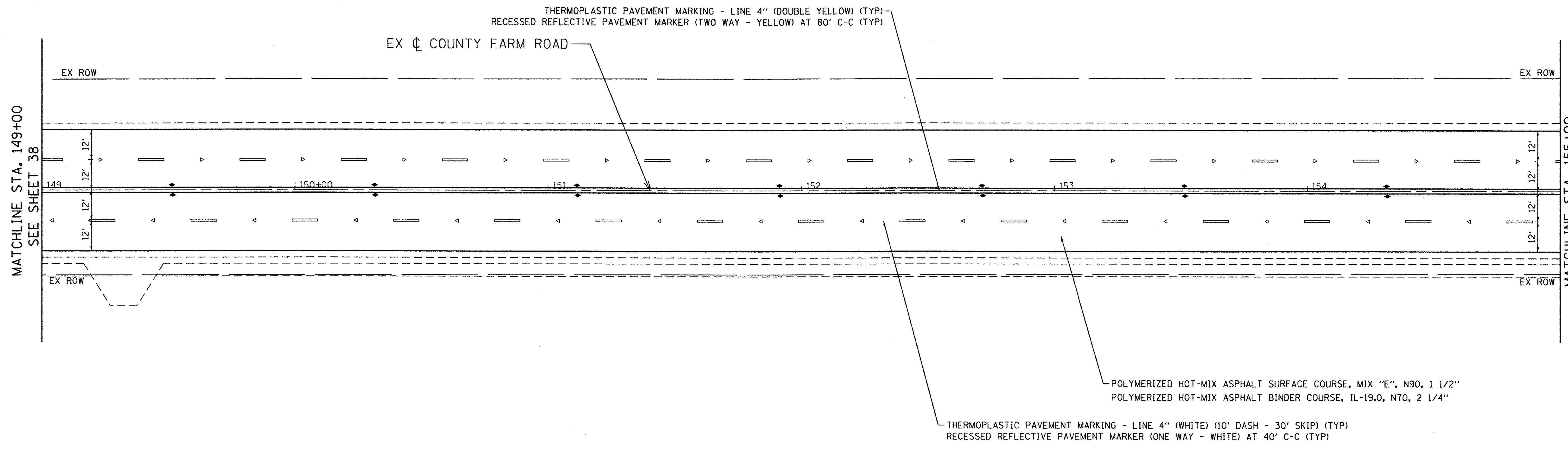
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4008 Fax: 773.775.4014
 Email: clorba@clorba.com

| | | |
|-----------------------------|------------------|-----------|
| USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
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| | DATE - JAN 2017 | REVISED - |





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

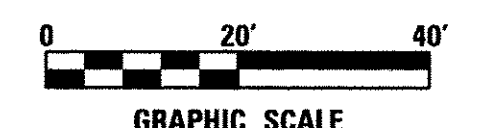
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| COUNTY FARM ROAD IMPROVEMENTS PROPOSED PLAN | | | |
| SCALE: 1" = 20' | SHEET NO. | OF SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 38 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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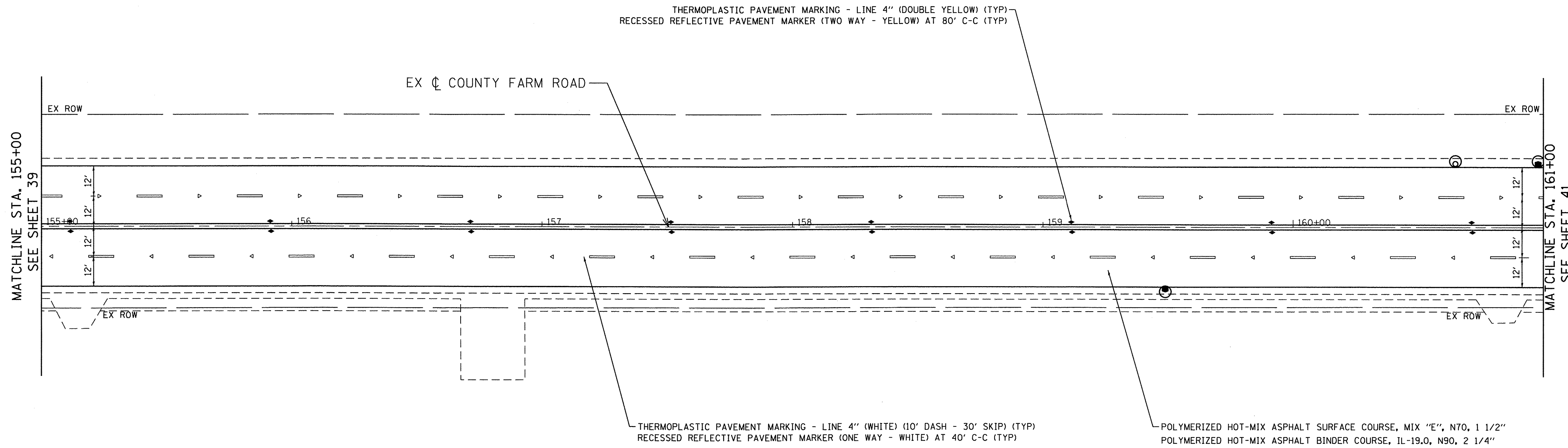
ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 6507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4200 Fax: 773.775.4014
 Email: clorba@clorba.com

| | | |
|-----------------------------|------------------|-----------|
| USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |



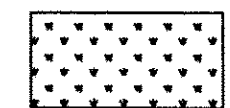

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

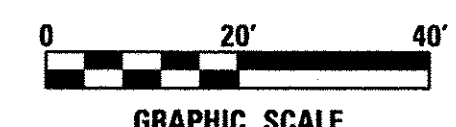
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|--|---------------------|--------------|--|
| COUNTY FARM ROAD IMPROVEMENTS PROPOSED PLAN | | | |
| SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA. | |

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|--------------------|------------------------|---------------|---------------------------|--------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 39 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |



LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 3/8/2017

ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: clorba@clorba.com

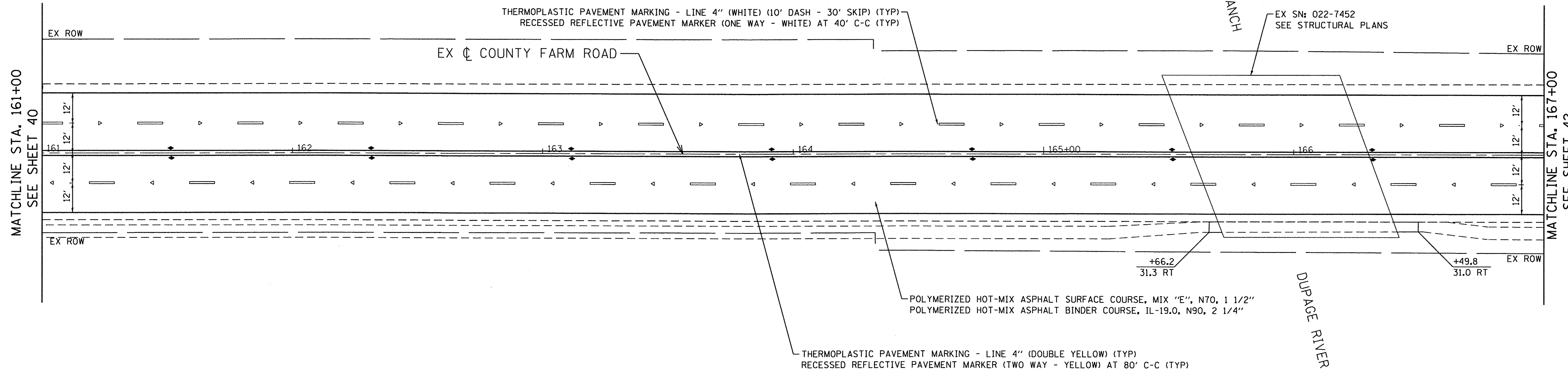
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| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
 PROPOSED PLAN**

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





| | | | | |
|-----------------------------|---------------------------|------------------|--------------------|-----------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 40 |
| CONTRACT NO. 61D62 | | | | |
| [ILLINOIS] FED. AID PROJECT | | | | |



MATCHLINE STA. 161+00
SEE SHEET 40


MATCHLINE STA. 167+00
SEE SHEET 42

LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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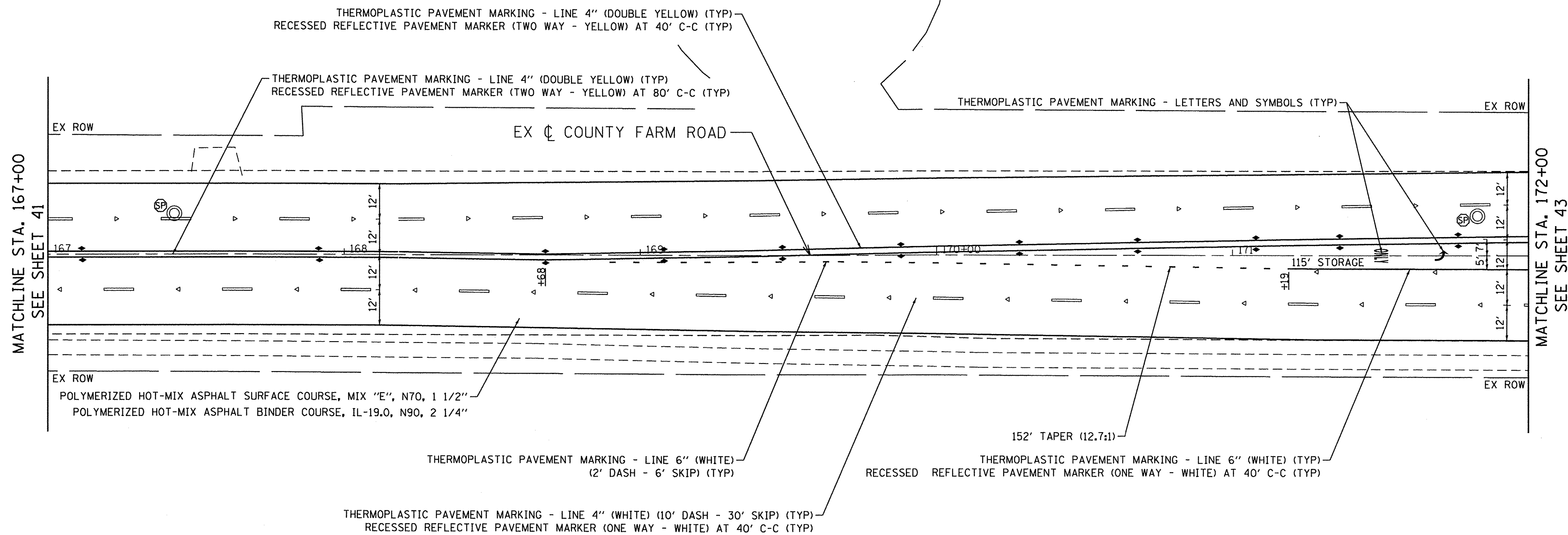
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|  <p>Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60658 Tel: 773.775.4000 Fax: 773.775.4014 Email: chicago@ciorba.com</p> | ENGINEERING CONSULTANT | USER NAME = mdoboub | DESIGNED - ES | REVISED - |
| | | | DRAWN - NT / AMH | REVISED - |
| | | PLOT SCALE = 40.0000' / in. | CHECKED - ES | REVISED - |
| | | PLOT DATE = 3/8/2017 | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN**

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

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 41 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

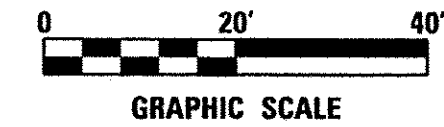


MATCHLINE STA. 167+00
SEE SHEET 41

MATCHLINE STA. 172+00
SEE SHEET 43

LEGEND

- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- STRUCTURES TO BE ADJUSTED
- SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



DATE PLOTTED = 3/8/2017 4:45:07 PM
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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: chicago@clorba.com

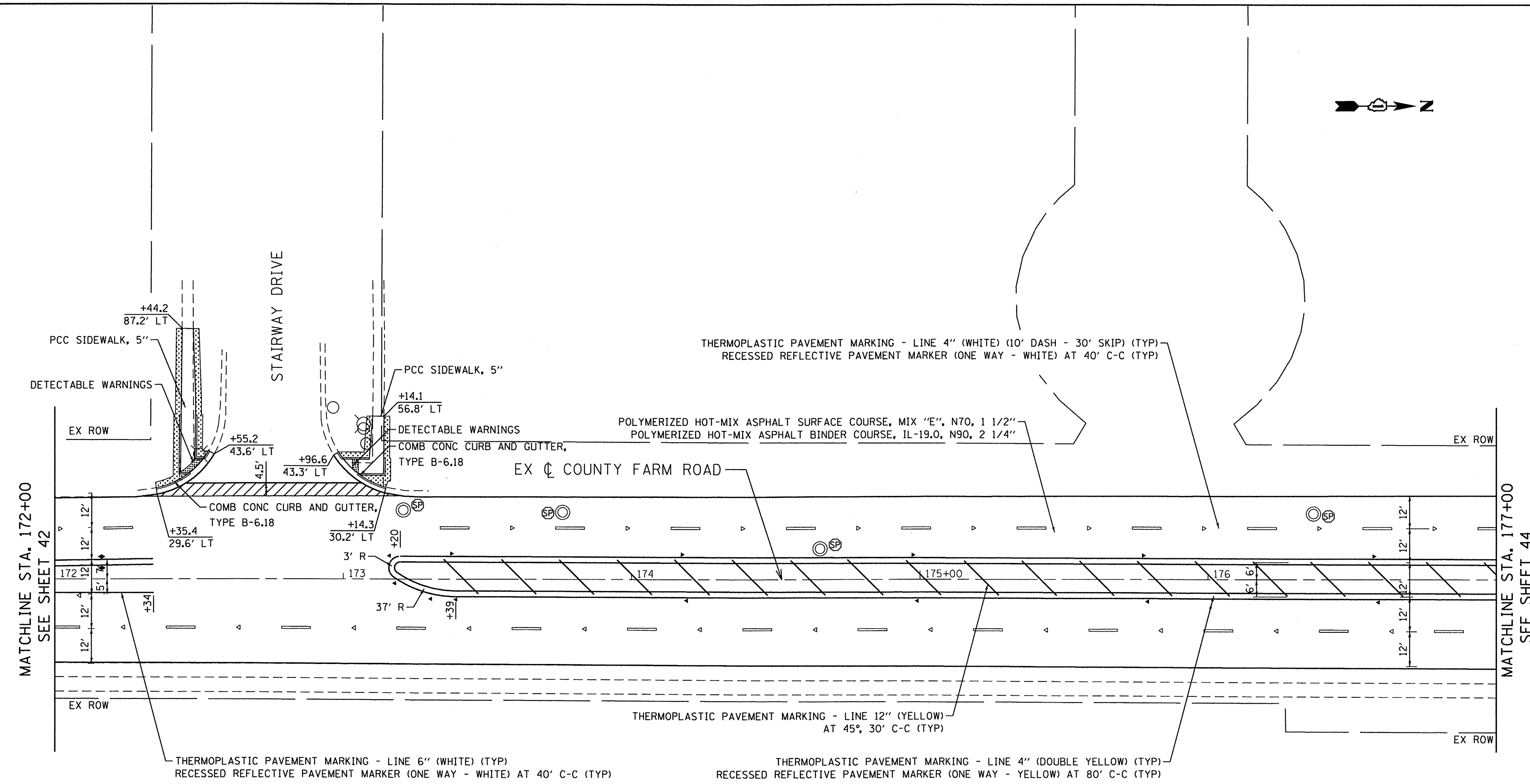
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| USER NAME = mdeboub | DESIGNED - ES | REVISED - |
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| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**




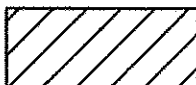
**COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN**

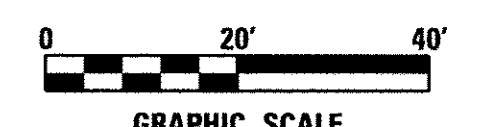
SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|--------------------|----------------|--------|---------------------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 42 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |



LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



DATE PLOTTED = 3/8/2017 4:49:08 PM
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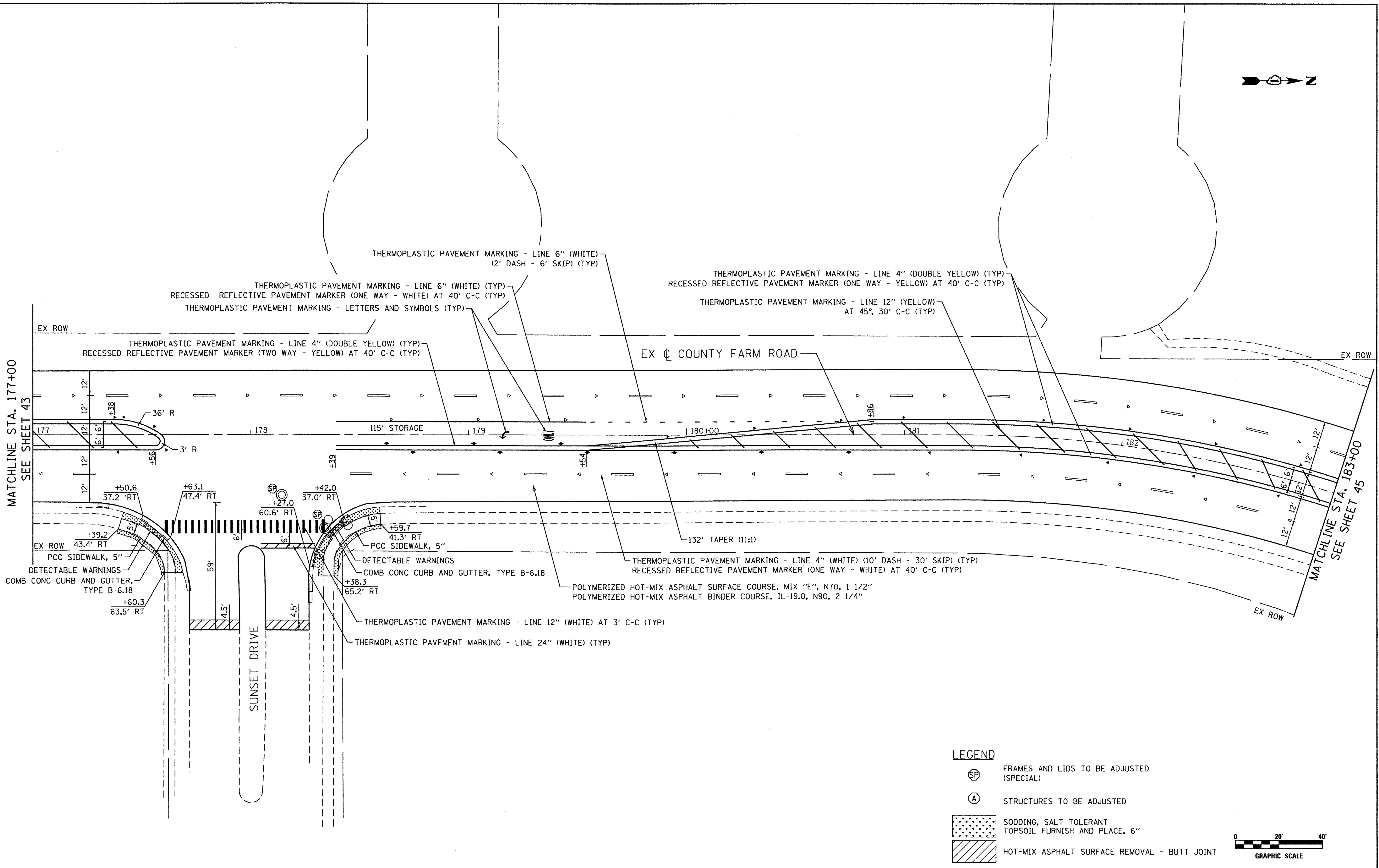
ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4209 Fax: 773.775.4014
 Email: chicago@clorba.com

| | | |
|-----------------------------|------------------|-----------|
| USER NAME = mdeboeb | DESIGNED - ES | REVISED - |
| | DRAWN - NT / AMH | REVISED - |
| PLOT SCALE = 40.0000' / in. | CHECKED - ES | REVISED - |
| PLOT DATE = 3/8/2017 | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|-----------|-----------|--------------|
| COUNTY FARM ROAD IMPROVEMENTS PROPOSED PLAN | | | |
| SCALE: 1" = 20' | SHEET NO. | OF SHEETS | STA. TO STA. |

| | | | | |
|--------------------|------------------------|---------------|-----------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 43 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |



MATCHLINE STA. 177+00
SEE SHEET 43

MATCHLINE STA. 183+00
SEE SHEET 45

LEGEND

- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- STRUCTURES TO BE ADJUSTED
- SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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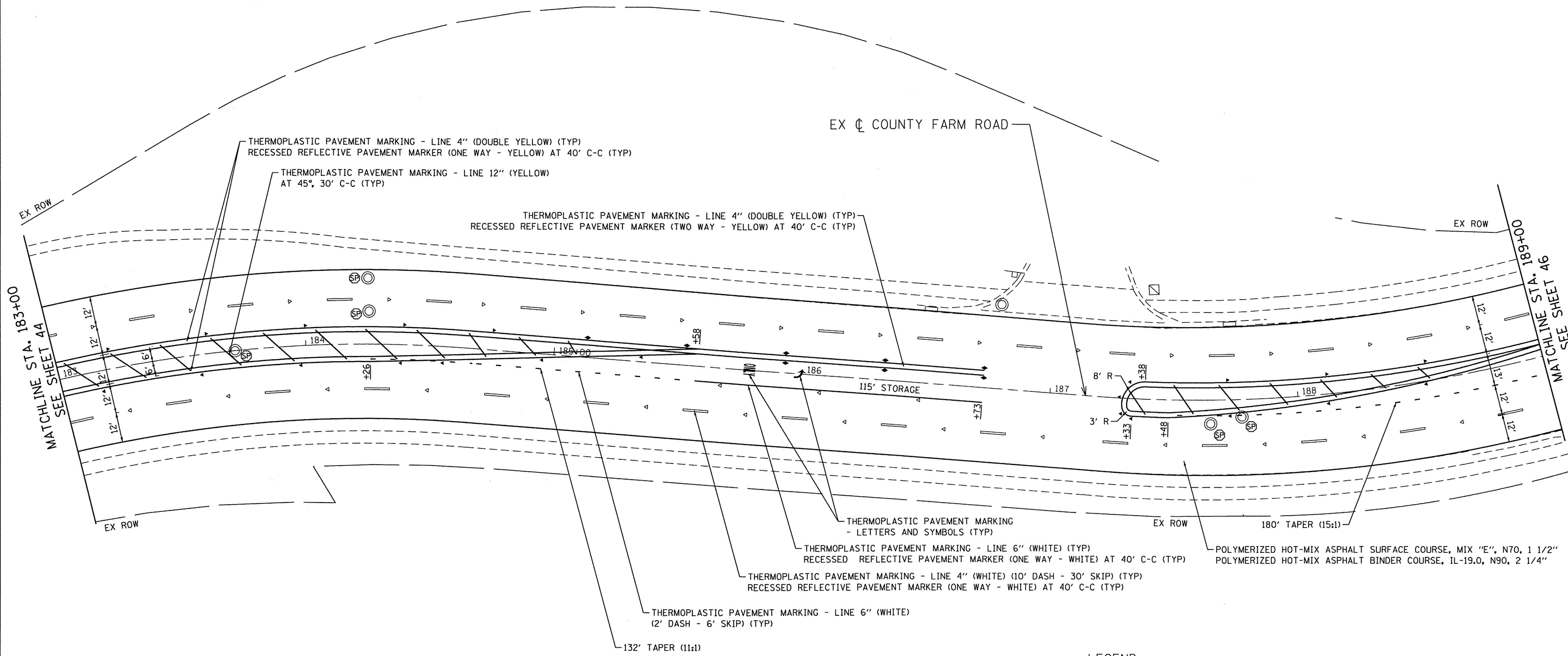
| | | | |
|--|-----------------------------|------------------|-----------|
| ENGINEERING CONSULTANT Clorba Group, Inc. <small>CONSULTING ENGINEERS 2507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60634 Tel: 773.775.4500 Fax: 773.775.4914 Email: clorba@clorba.com</small> | USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| | | DRAWN - NT / AMH | REVISED - |
| | PLOT SCALE = 40.0000' / in. | CHECKED - ES | REVISED - |
| | PLOT DATE = 3/8/2017 | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**




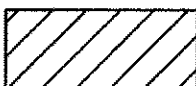
**COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN**

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

| | | | | |
|--|----------------|--------|--------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 44 |
| CONTRACT NO. 61D62 | | | | |
| <small>ILLINOIS FED. AID PROJECT</small> | | | | |



LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



DATE PLOTTED = 3/8/2017 4:49:09 PM
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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5807 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4209 Fax: 773.775.4014
 Email: clorba@clorba.com

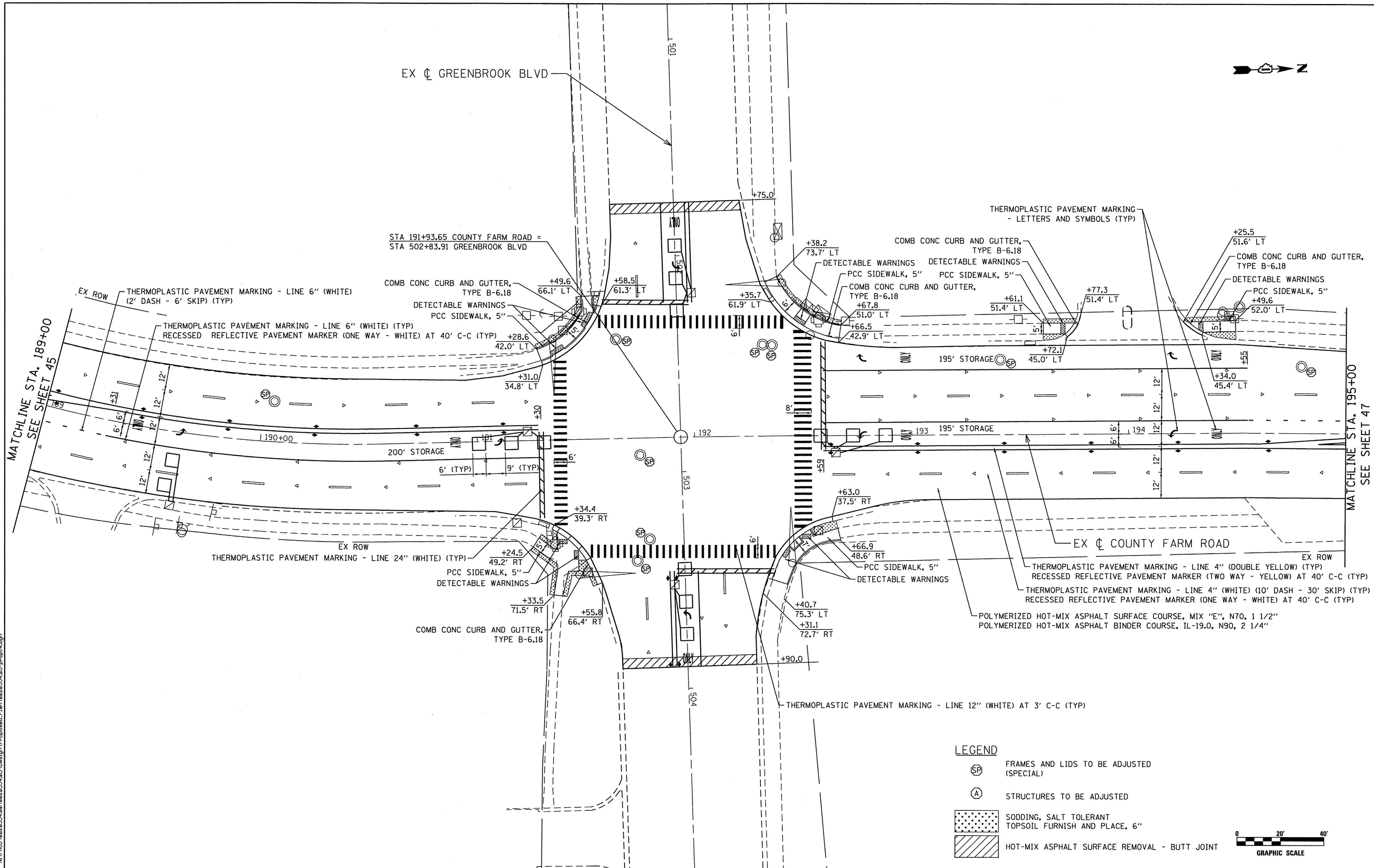
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| USER NAME = mdabou | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / 1" | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN**

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

| | | | | |
|--------------------|------------------------|---------------|-----------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 45 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |



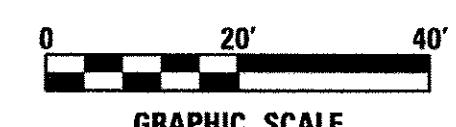
LEGEND

SP FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

A STRUCTURES TO BE ADJUSTED

SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6\"/>

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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PLOT SCALE = 40.0000' / in.
PLOT DATE = 3/8/2017

ENGINEERING CONSULTANT

Clorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60630
Tel: 773.775.4209 Fax: 773.775.4014
Email: clorba@clorba.com

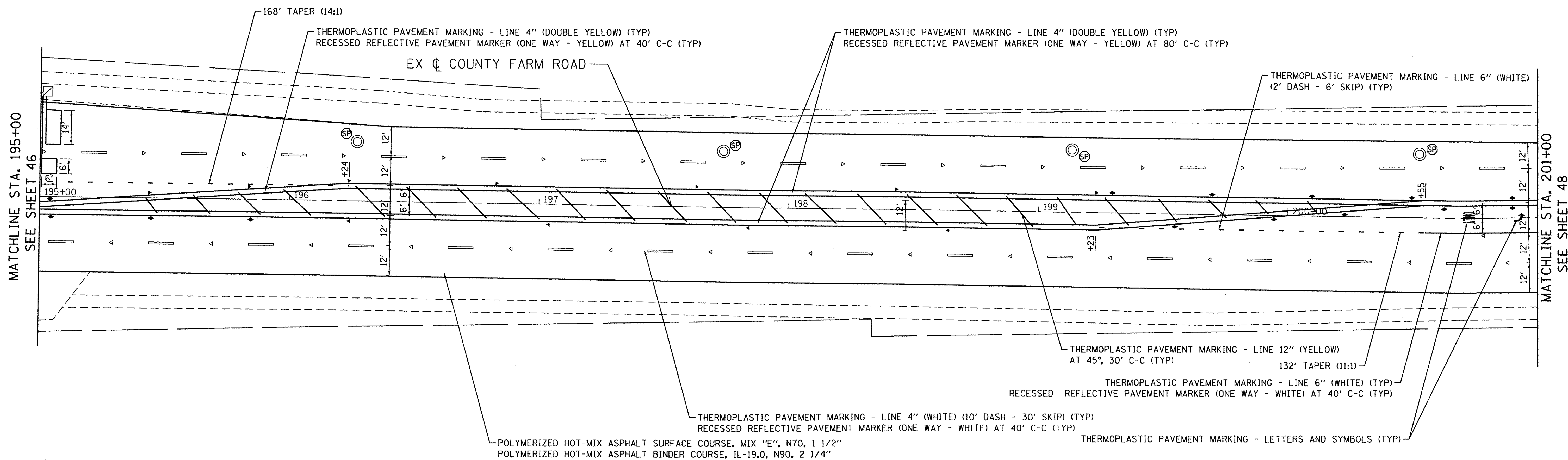
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| USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| DATE - JAN 2017 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN

| | | | | |
|--------------------|------------------------|---------------|---------------------------|--------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 46 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

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

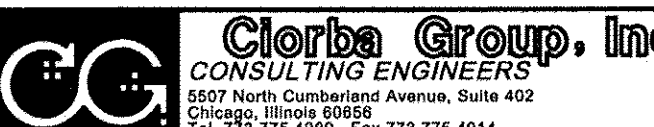


LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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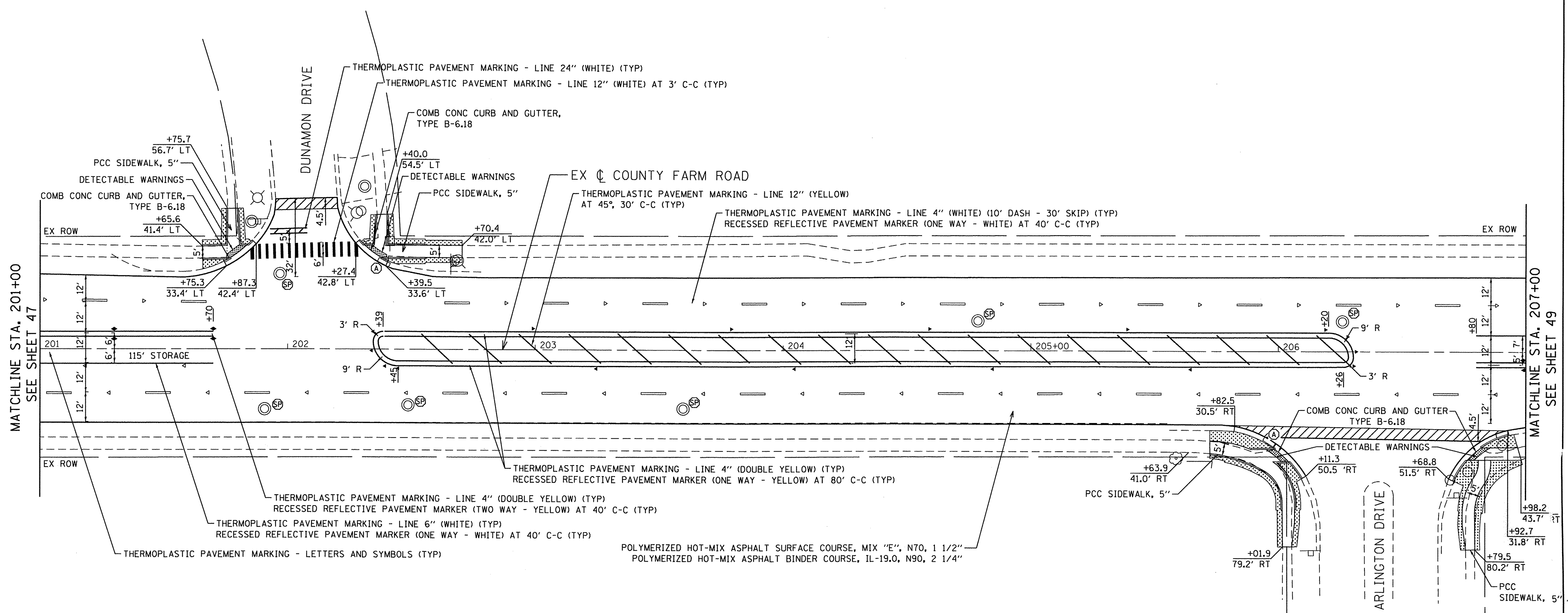
| | | | |
|--|-----------------------------|------------------|-----------|
|  ENGINEERING CONSULTANT CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel: 773.775.4209 Fax: 773.775.4014 Email: cllcorba@clorba.com | USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| | PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| | PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | | DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN

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

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 47 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

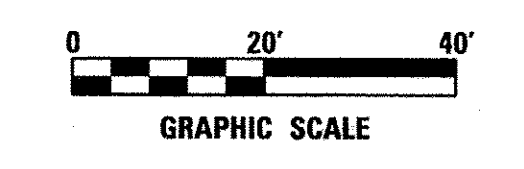


MATCHLINE STA. 201+00
SEE SHEET 47

MATCHLINE STA. 207+00
SEE SHEET 49

LEGEND

- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- STRUCTURES TO BE ADJUSTED
- SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 2507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60640
 Tel: 773.775.4000 Fax: 773.775.4014
 Email: chicago@clorba.com

| | | |
|------------------------------|------------------|-----------|
| USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

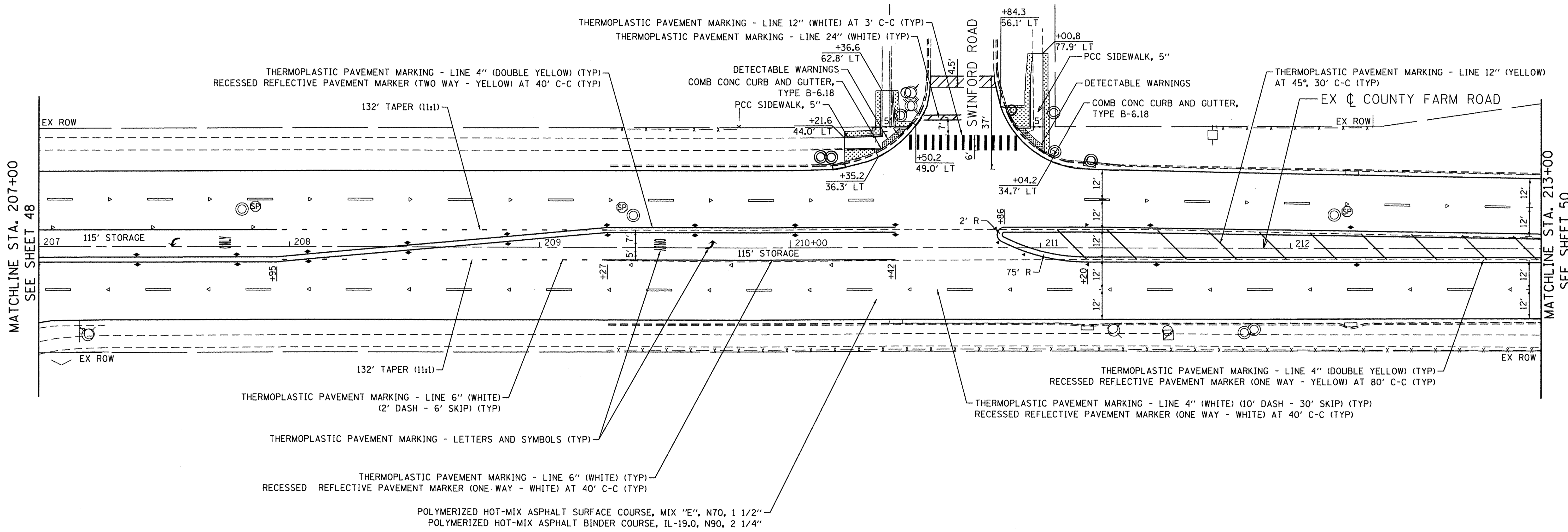
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN**

SCALE: 1" = 20'

| | | | | |
|-----------|----|--------|------|---------|
| SHEET NO. | OF | SHEETS | STA. | TO STA. |
|-----------|----|--------|------|---------|

| | | | | |
|--------------------|----------------|--------|---------------------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 48 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |



MATCHLINE STA. 207+00
SEE SHEET 48

MATCHLINE STA. 213+00
SEE SHEET 50

LEGEND

- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- STRUCTURES TO BE ADJUSTED
- SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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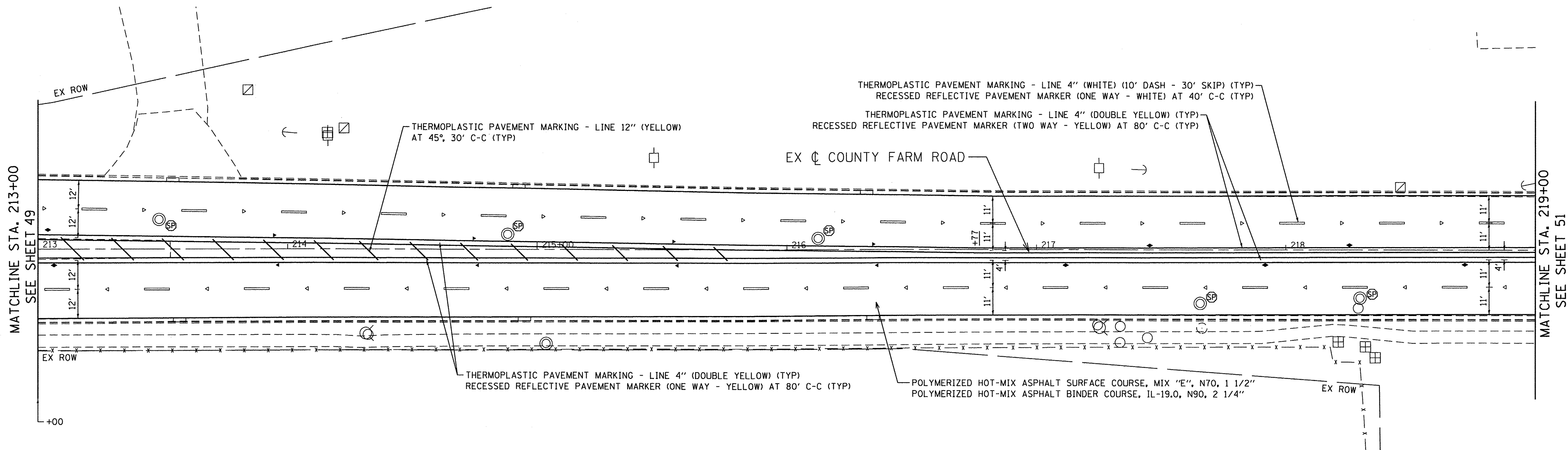
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|--|------------------------|-----------------------------|------------------|-----------|
| Clorba Group, Inc. CONSULTING ENGINEERS <small>5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60658 Tel: 773.775.4000 Fax: 773.775.4014 Email: clcpc@clorba.com</small> | ENGINEERING CONSULTANT | USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| | | | DRAWN - NT / AMH | REVISED - |
| | | PLOT SCALE = 40.0000' / in. | CHECKED - ES | REVISED - |
| | | PLOT DATE = 3/8/2017 | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN AND PROFILE**

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

| | | | | |
|--------------------|---------------------------|------------------|--------------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 49 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |



MATCHLINE STA. 213+00
SEE SHEET 49

MATCHLINE STA. 219+00
SEE SHEET 51

LEGEND

- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- STRUCTURES TO BE ADJUSTED
- SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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ENGINEERING CONSULTANT

 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: clorba@clorba.com

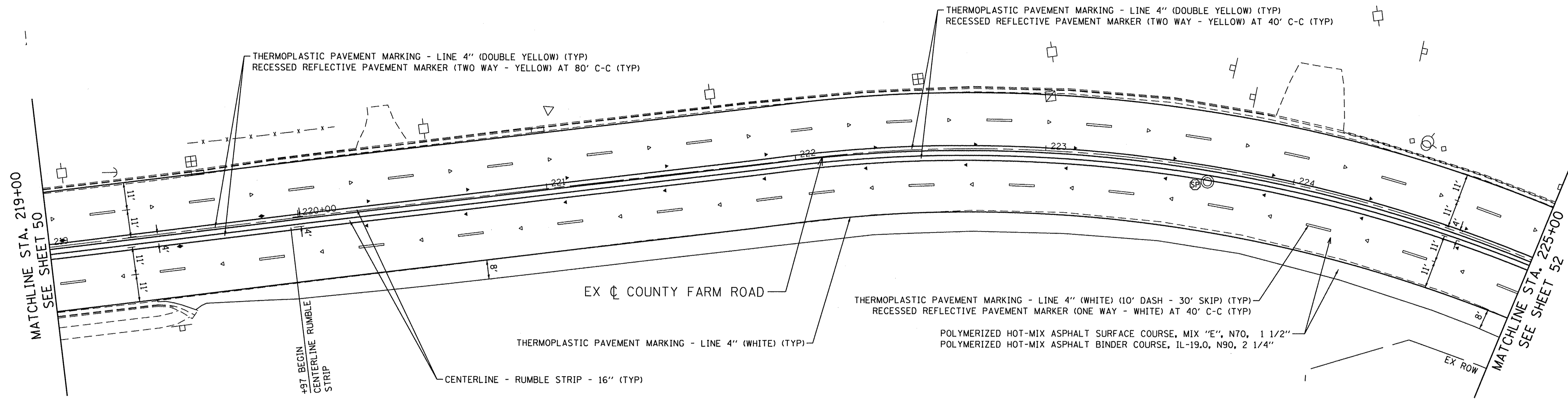
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|-----------------------------|------------------|-----------|
| USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





**COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN AND PROFILE**

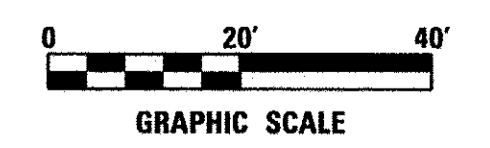
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| | | | | |
|--------------------|---------------------------|------------------|---------------------------|-----------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 50 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |




LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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|---|---|------------------------------|------------------|-----------|
|  | ENGINEERING CONSULTANT | USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| | CONSULTING ENGINEERS | | DRAWN - NT / AMH | REVISED - |
| | 2607 North Cumberland Avenue, Suite 402 Chicago, Illinois 60642 Tel: 773.775.4000 Fax: 773.775.4014 Email: clorba@clorba.com | | CHECKED - ES | REVISED - |
| | | PLOT SCALE = 40.0000' / 1" = | DATE - JAN 2017 | REVISED - |

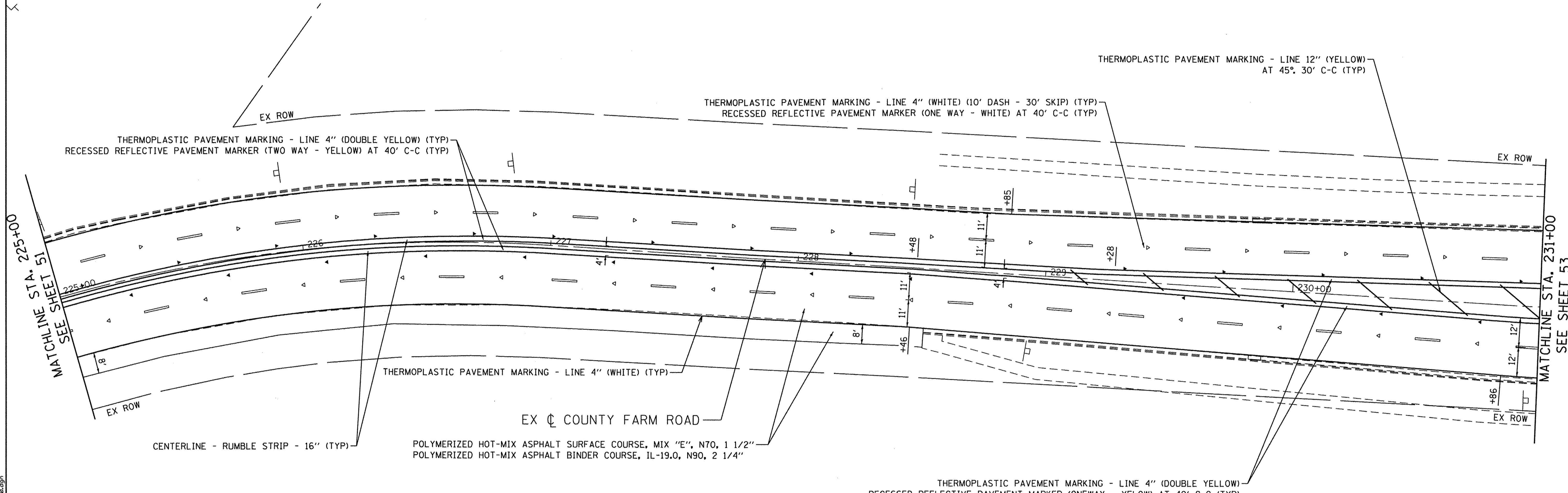
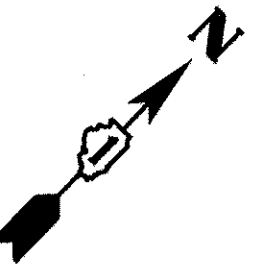
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN AND PROFILE

SCALE: 1" = 20'

SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------------------------|------------------|--------------------|-----------------|
| FAP. RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 51 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



MATCHLINE STA. 225+00
SEE SHEET 51

MATCHLINE STA. 231+00
SEE SHEET 53

THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW)
AT 45° 30' C-C (TYP)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (10' DASH - 30' SKIP) (TYP)
RECESSED REFLECTIVE PAVEMENT MARKER (ONE WAY - WHITE) AT 40' C-C (TYP)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) (TYP)
RECESSED REFLECTIVE PAVEMENT MARKER (TWO WAY - YELLOW) AT 40' C-C (TYP)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (TYP)

THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
RECESSED REFLECTIVE PAVEMENT MARKER (ONEWAY - YELLOW) AT 40' C-C (TYP)

CENTERLINE - RUMBLE STRIP - 16" (TYP)

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 1/2"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"

EX COUNTY FARM ROAD

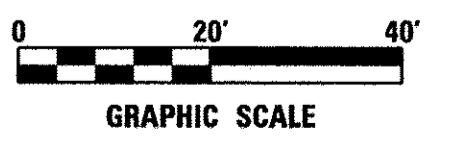
LEGEND

⊙ FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

⊙ STRUCTURES TO BE ADJUSTED

☐ SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"

☐ HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



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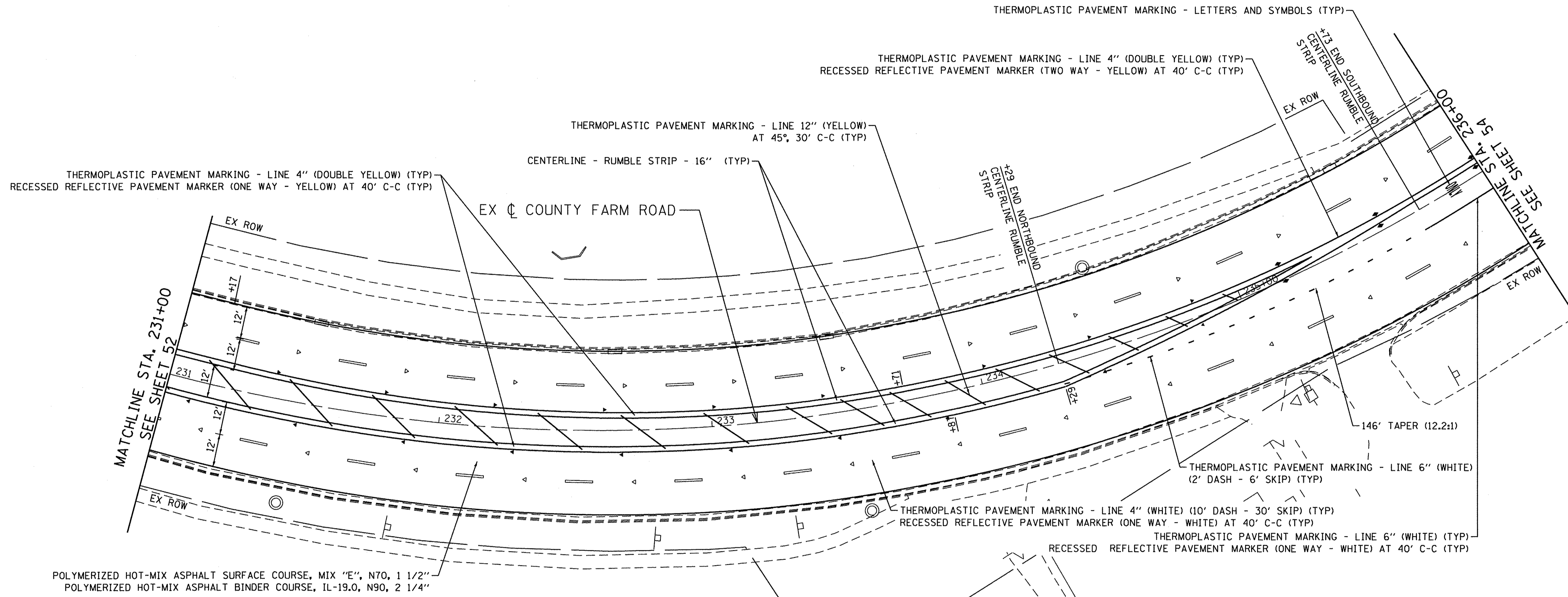
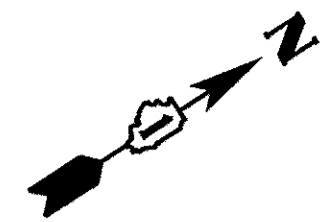
ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
6507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel: 773.775.4009 Fax: 773.775.4014
Email: chicago@clorba.com

| | | |
|-----------------------------|------------------|-----------|
| USER NAME = mdoboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|-----------|-----------|--------------|
| COUNTY FARM ROAD IMPROVEMENTS PROPOSED PLAN AND PROFILE | | | |
| SCALE: 1" = 20' | SHEET NO. | OF SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 52 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |




LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



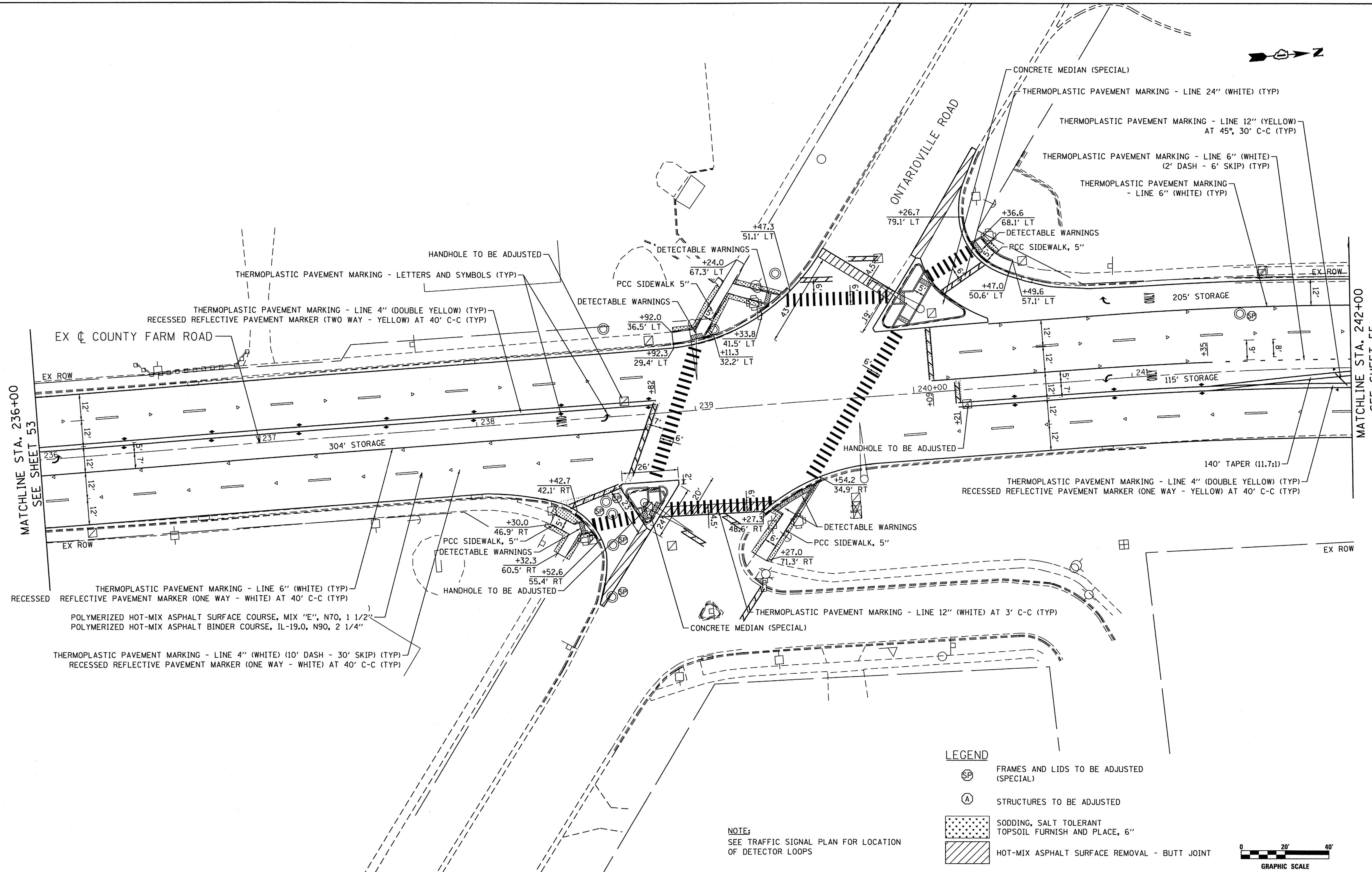
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|---|-----------------------------|------------------|-----------|
|  <p>ENGINEERING CONSULTANT CONSULTING ENGINEERS 8507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel: 773.775.4009 Fax: 773.775.4014 Email: clorba@clorba.com</p> | USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| | PLOT SCALE = 40.0000' / in. | DRAWN - NT / AMH | REVISED - |
| | PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|---------------------|--------------|--|
| COUNTY FARM ROAD IMPROVEMENTS PROPOSED PLAN AND PROFILE | | | |
| SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA. | |

| | | | | |
|---------------------------|------------------------|---------------|-----------------|--------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 53 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



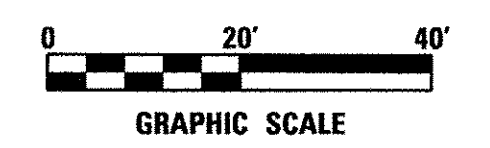
MATCHLINE STA. 236+00
SEE SHEET 53

MATCHLINE STA. 242+00
SEE SHEET 55

LEGEND

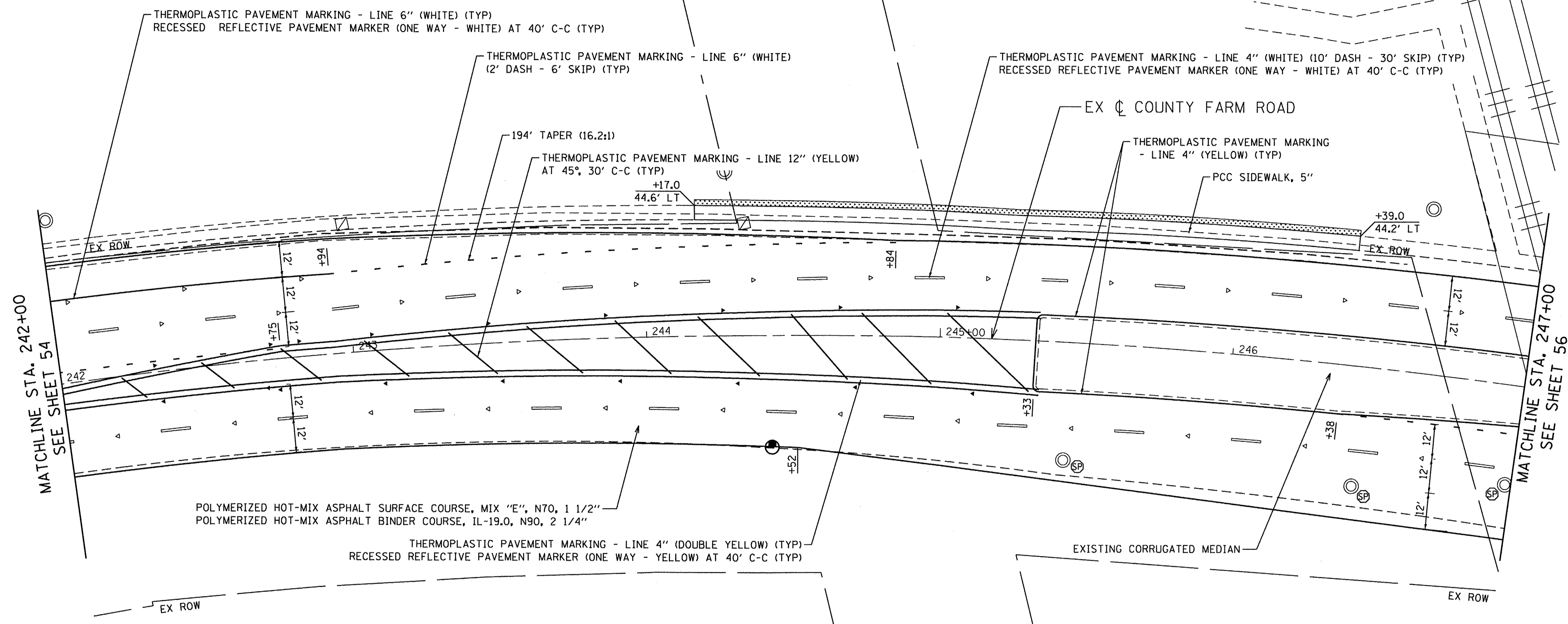
- FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- STRUCTURES TO BE ADJUSTED
- SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

NOTE:
SEE TRAFFIC SIGNAL PLAN FOR LOCATION OF DETECTOR LOOPS







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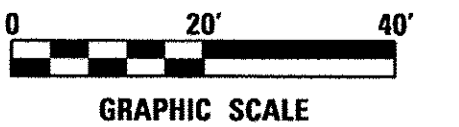
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| | USER NAME = mdboub | DESIGNED - ES | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | COUNTY FARM ROAD IMPROVEMENTS PROPOSED PLAN | FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY | TOTAL SHEETS 99 | SHEET NO. 54 |
| | PLOT SCALE = 40.0000' / 1\"/> | | | | | | | | | |
| ENGINEERING CONSULTANT Clorba Group, Inc. <small>CONSULTING ENGINEERS 8507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60636 Tel: 773.775.4609 Fax: 773.775.4014 Email: Chicago@clorba.com</small> | | DRAWN - NT / AMH CHECKED - ES DATE - JAN 2017 | REVISED - REVISED - REVISED - REVISED - | SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA. | CONTRACT NO. 61D62 <small>ILLINOIS FED. AID PROJECT</small> | | | | | |




NOTE:
PAVEMENT ELEVATION SHALL NOT CHANGE BENEATH OVERHEAD STRUCTURE FROM STA 247+00 TO STA 247+55

LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



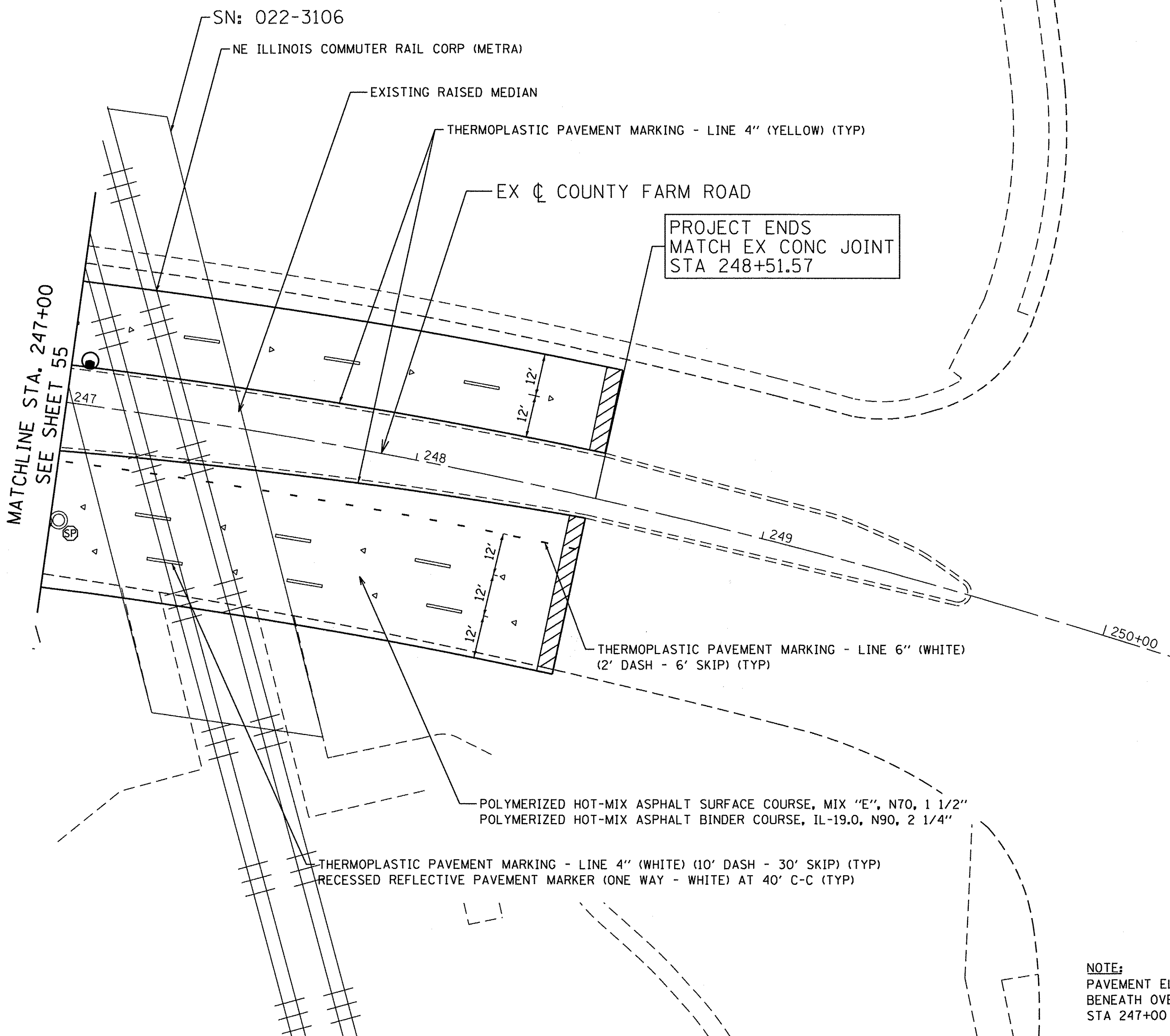
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| | | | |
|---|----------------------------|------------------|-----------|
|  ENGINEERING CONSULTANT CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60630 Tel: 773.775.2009 Fax: 773.775.4014 Email: chicago@clorba.com | USER NAME = mdeboeb | DESIGNED - ES | REVISED - |
| | PLOT SCALE = 40.0000' / 1" | DRAWN - NT / AMH | REVISED - |
| | PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | | DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




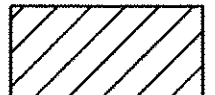
COUNTY FARM ROAD IMPROVEMENTS
PROPOSED PLAN

| | | | | |
|----------------------------------|------------------------|---------------------------|--------------------|--------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 55 |
| SCALE: 1" = 20' | | | CONTRACT NO. 61D62 | |
| SHEET NO. OF SHEETS STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |

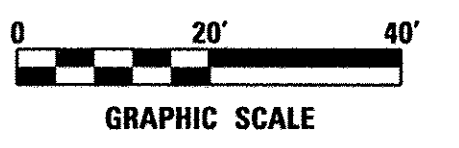


PROJECT ENDS
MATCH EX CONC JOINT
STA 248+51.57


LEGEND

-  FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
-  STRUCTURES TO BE ADJUSTED
-  SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 6"
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

NOTE:
PAVEMENT ELEVATION SHALL NOT CHANGE BENEATH OVERHEAD STRUCTURE FROM STA 247+00 TO STA 247+55



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| | | | | | | | | | | | | |
|---|---|------------------------------|----------------------|------------------|---|--|------------|---------|----------------|--------------|-----------|---------------------------|
|  | ENGINEERING CONSULTANT | USER NAME = mdeboub | DESIGNED - ES | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | COUNTY FARM ROAD IMPROVEMENTS PROPOSED PLAN | FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | CONSULTING ENGINEERS 5607 North Cumberland Avenue, Suite 402 Chicago, Illinois 60630 Tel: 773.775.4000 Fax: 773.775.4014 Email: Chicago@clorbagroup.com | PLOT SCALE = 40.0000' / 1" = | PLOT DATE = 3/8/2017 | DRAWN - NT / AMH | | | REVISIED - | 362 | 14-00179-31-SP | DUPAGE | 99 | 56 |
| | | | | | | SCALE: 1" = 20' | SHEET NO. | OF | SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT |

TRAFFIC CONTROL AND PROTECTION

1. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN, TRAFFIC SIGNAL PLANS, THESE NOTES, APPLICABLE SPECIAL PROVISIONS, AND SECTION 701 OF THE STANDARD SPECIFICATIONS AS AMENDED BY THE SPECIAL PROVISION FOR WORK ZONE TRAFFIC CONTROL (CHECK SHEET LRS 3).
2. THE TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.
3. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES WILL BE REMOVED BY THE DUPAGE COUNTY DIVISION OF TRANSPORTATION AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER. SIGNS OR DEVICES LEFT IN PLACE AT THAT TIME ARE TO BE RELOCATED, MAINTAINED, AND PROTECTED FROM DAMAGE BY THE CONTRACTOR AND ANY DAMAGED OR LOST SIGNS WILL BE REPLACED BY THE CONTRACTOR.
4. TYPE I OR TYPE II BARRICADES, DRUMS, OR VERTICAL PANELS WITH MONODIRECTIONAL STEADY-BURN LIGHTS SHALL BE REQUIRED ALONG TEMPORARY ROADS, DETOURS, AND SIDE STREETS TO DELINEATE THE TRAVELED WAY WITHIN THE CONSTRUCTION ZONE. THE MAXIMUM SPACING FOR THESE DEVICES SHALL BE 100 FEET CENTER TO CENTER.
5. ANY DROP OFF GREATER THAN THREE (3) INCHES BUT LESS THAN SIX (6) INCHES, WITHIN EIGHT (8) FEET OF THE PAVEMENT EDGE, SHALL BE PROTECTED BY TYPE I OR TYPE II BARRICADES, DRUMS OR VERTICAL PANELS WITH MONODIRECTIONAL STEADY-BURN LIGHTS AT 100 FOOT CENTER TO CENTER SPACING. IF THE DROP OFF WITHIN EIGHT (8) FEET OF THE PAVEMENT EDGE EXCEEDS SIX (6) INCHES, THE BARRICADES, DRUMS OR VERTICAL PANELS MENTIONED ABOVE SHALL BE PLACED AT FIFTY (50) FOOT CENTER TO CENTER SPACING. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901.
6. TYPE I OR TYPE II BARRICADES WITH TWO-WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIALS OR EQUIPMENT WITHIN THE RIGHT-OF-WAY (NUMBER AND SPACING DEPENDS ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE ENGINEER OR LOCAL LAW ENFORCEMENT AGENCIES.
7. TYPE I, II AND/OR III BARRICADES WITH TWO-WAY FLASHING LIGHTS WILL BE REQUIRED TO GUIDE TRAFFIC AWAY FROM PAVEMENT AREAS CLOSED FOR CONSTRUCTION.
8. THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, WARNING LIGHTS, AND SIGNS WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION.
9. WHERE REQUIRED, TRAFFIC SIGNS SHALL BE RELOCATED FOR EACH STAGE OF CONSTRUCTION.
10. ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES.
11. THE TRAFFIC CONTROL STANDARDS LISTED BELOW ARE THE MINIMUM REQUIREMENTS FOR THE TRAFFIC CONTROL FOR THIS PROJECT.

COUNTY FARM ROAD
701101, 701106, 701427, 701601, 701602, 701606, 701611, 701701, 701801, 701901

12. PAVEMENT PATCHING, MILLING AND RESURFACING WILL NOT BE ALLOWED BETWEEN SCHICK ROAD AND GREENBROOK BOULEVARD DURING THE SN 022-7452 IMPROVMENTS.
13. TEMPORARY PAVEMENT MARKING - LINE 4" SHALL BE USED ON THE MILLED SURFACE IN THE ABBERRIVATED PATTERN STATED IN ART. 703.04.
14. SHORT TERM PAVEMENT MARKINGS SHALL BE USED AFTER LEVELING BINDER IS PLACED AND PRIOR TO FINAL PAVEMENT MARKINGS.

CONSTRUCTION OPERATIONS

THE FOLLOWING IS THE CONSTRUCTION STAGING FOR THIS PROJECT. THE PURPOSE OF THE STAGING IS TO MINIMIZE DELAYS TO THE MOTORIST. THE CONTRACTOR MAY ALTER THE SEQUENCE OF CONSTRUCTION WITH THE PRIOR APPROVAL OF THE ENGINEER.

PRIOR TO START OF CONSTRUCTION, REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE.

1. SN 022-7452 IMPROVEMENTS

STAGE 1 - CLOSE SOUTHBOUND LANES USING STANDARD 701611 FOR TRAFFIC CONTROL WITH TEMPORARY CONCRETE BARRIER AS SHOWN IN THE STAGE CONSTRUCTION DETAILS FOR SN 022-7452.

STAGE 2 - CLOSE OUTSIDE NORTHBOUND AND SOUTHBOUND LANES USING STANDARD 701606 FOR TRAFFIC CONTROL WITH TEMPORARY CONCRETE BARRIER AS SHOWN IN THE STAGE CONSTRUCTION DETAILS FOR SN 022-7452.

STAGE 3 - CLOSE NORTHBOUND LANES USING STANDARD 701611 FOR TRAFFIC CONTROL WITH TEMPORARY CONCRETE BARRIER AS SHOWN IN THE STAGE CONSTRUCTION DETAILS FOR SN 022-7452.

2. TRAFFIC SIGNAL IMPROVEMENTS

ALL WORK SHALL BE DONE ACCORDING TO STANDARD 701701 AND 701801 FOR TRAFFIC CONTROL.

3. SIDEWALK IMPROVEMENTS

ALL WORK SHALL BE DONE ACCORDING TO STANDARD 701101 AND 701801 FOR TRAFFIC CONTROL.

4. PAVEMENT PATCHING

CLOSE THE LANE THAT REQUIRES PAVEMENT PATCHING USING APPLICABLE STANDARDS 701601, 701602 AND 701606 FOR TRAFFIC CONTROL. ONLY ONE LANE CAN BE CLOSED AT A TIME MAINTAINING THREE LANES OF TRAFFIC. NO OPEN HOLES WILL BE ALLOWED AT THE END OF EACH WORK DAY.

5. MILLING AND RESURFACING OPERATIONS

CLOSE THE LANE OR LANES THAT WILL BE MILLED AND RESURFACED USING APPLICABLE STANDARDS 701601, 701602, 701606, AND 701611 FOR TRAFFIC CONTROL. ONLY ONE LANE CAN BE CLOSED AT A TIME MAINTAINING THREE LANES OF TRAFFIC IN AREAS WHERE ECHELON PAVING IS NOT BEING UTILIZED.

6. PAVEMENT MARKING

ALL WORK SHALL BE DONE ACCORDING TO STANDARD 701427 AND 701701 FOR TRAFFIC CONTROL.

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ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
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Tel: 773.775.4000 Fax: 773.775.4014
Email: clorba@clorba.com

| | | |
|---------------------------|------------------|-----------|
| USER NAME = mdaboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 2.0000' / 1" | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
TRAFFIC STAGING AND NOTES**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

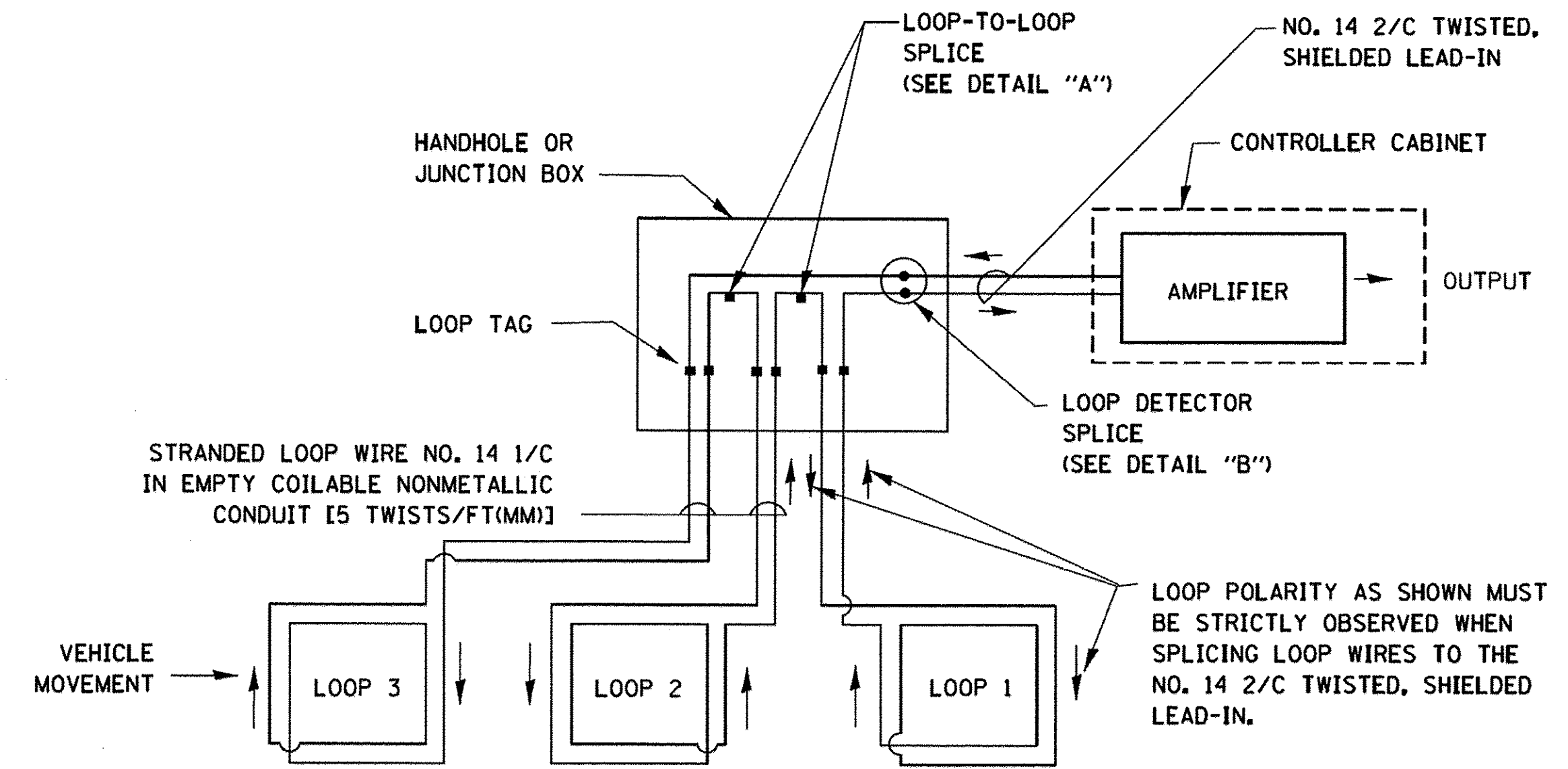
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|-----------------------------|---------------------------|------------------|--------------------|-----------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 57 |
| CONTRACT NO. 61D62 | | | | |
| [ILLINOIS] FED. AID PROJECT | | | | |

TRAFFIC SIGNAL LEGEND

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

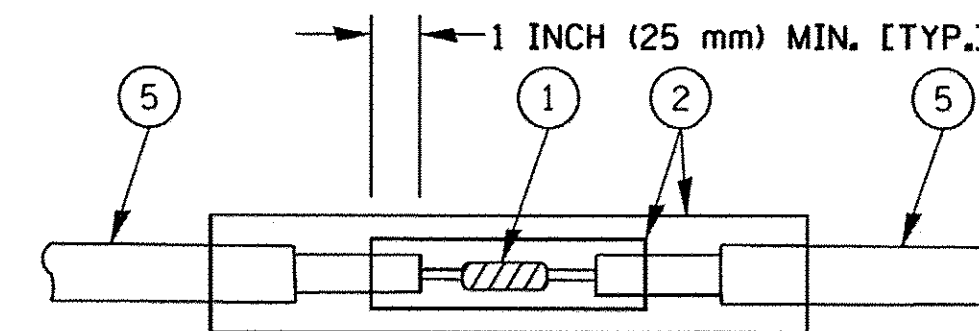
LOOP DETECTOR NOTES

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.

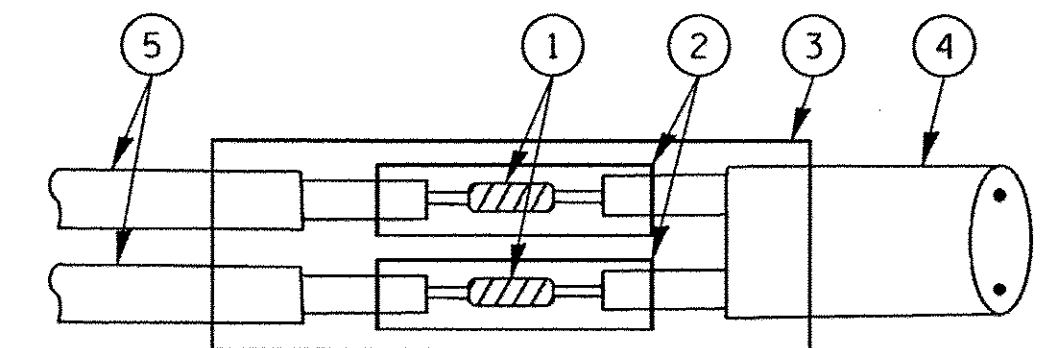


DETECTOR LOOP WIRING SCHEMATIC

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



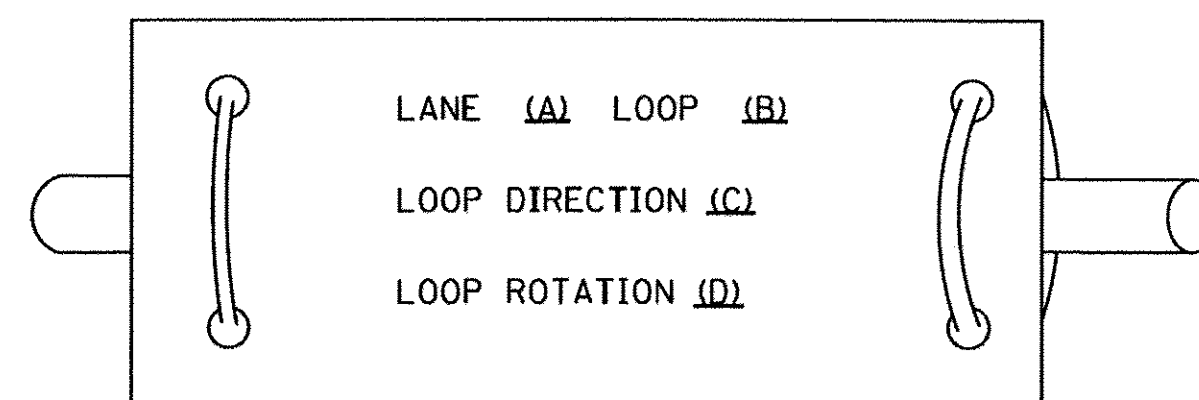
DETAIL "A"
LOOP-TO-LOOP SPLICE



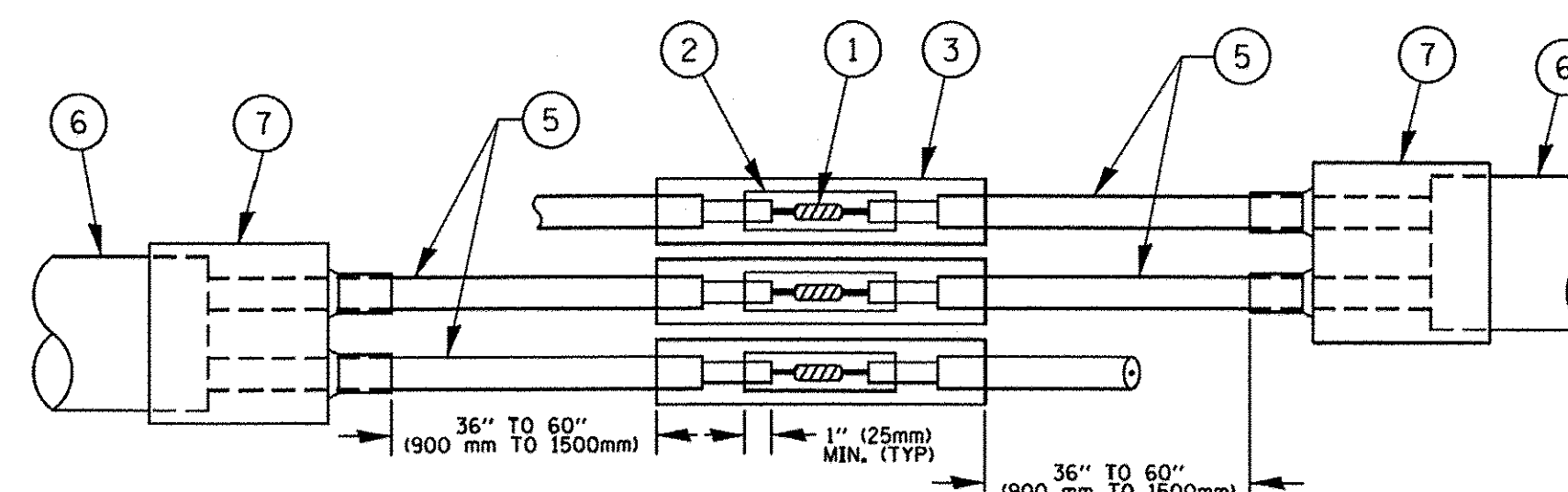
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

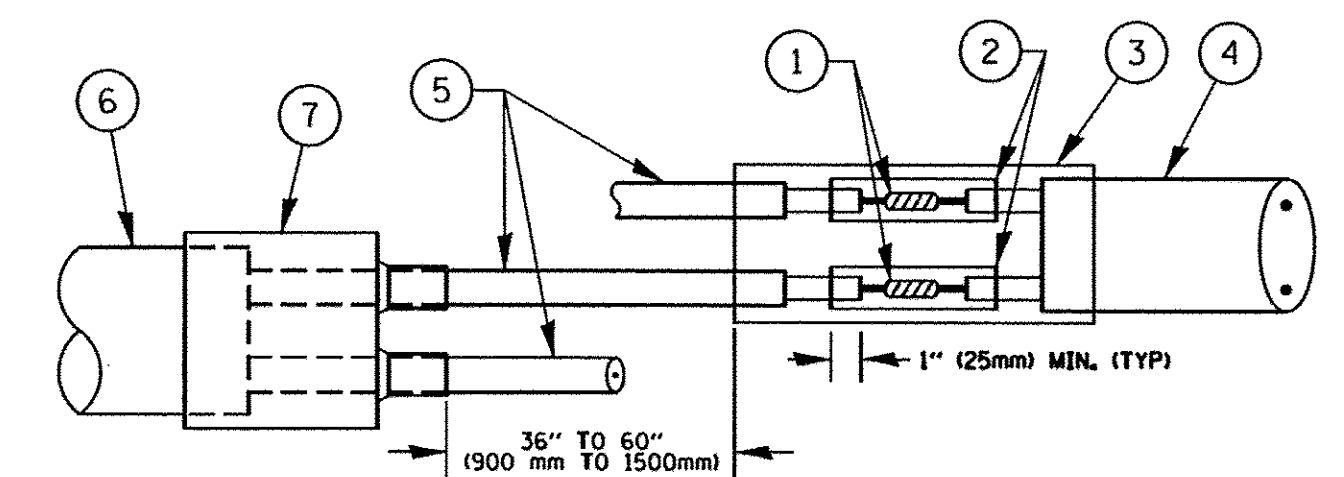
LOOP LEAD-IN CABLE TAG



- 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.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

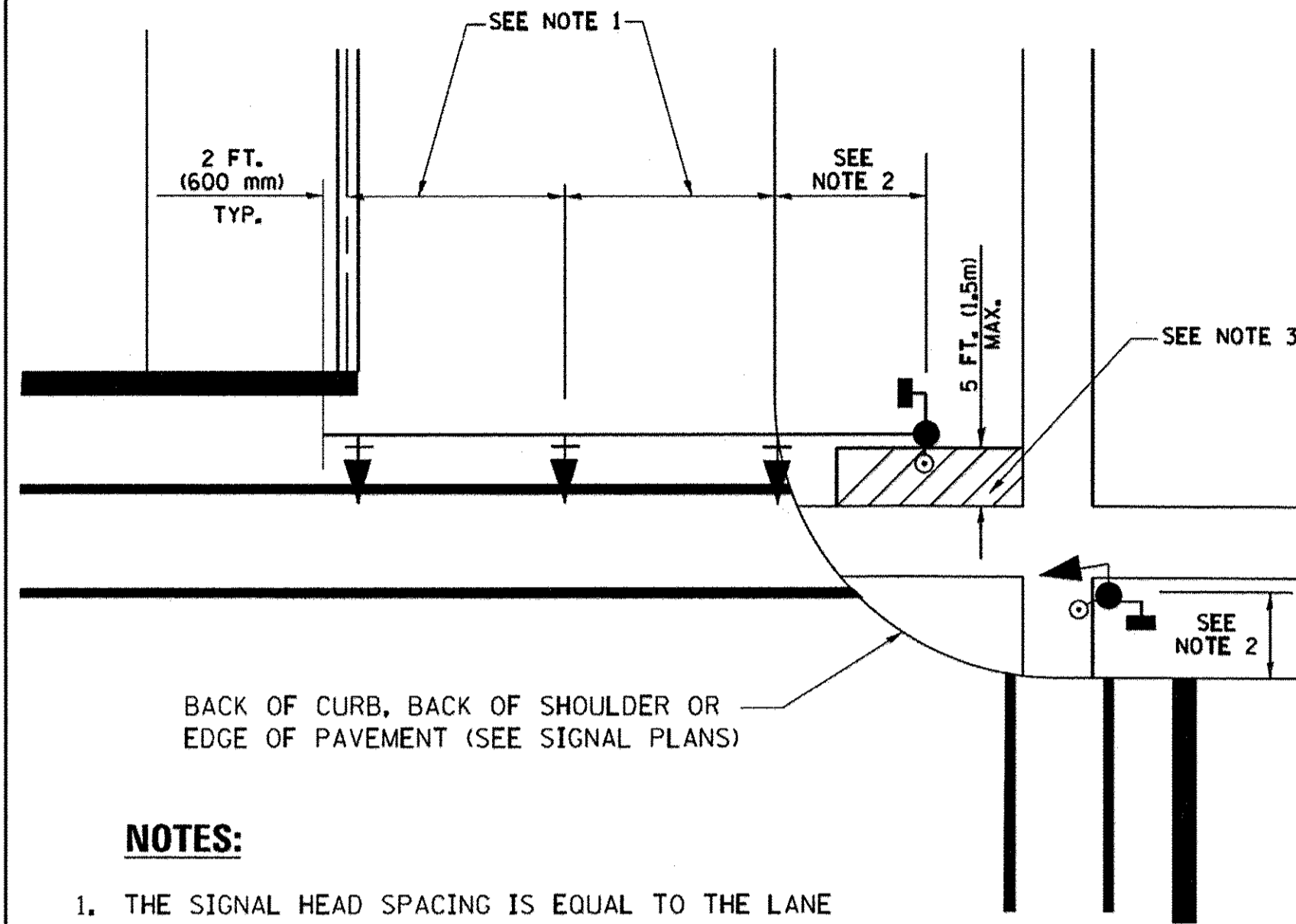
PRE-FORMED LOOP

LOOP DETECTOR SPLICE

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PRE-FORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

| | | | | | | | | | |
|--|---------------------|-----------------|----------------------|---|--|-------------------------|--------------------|---|--------------|
| FILE NAME = | USER NAME = footemj | DESIGNED - DAD | REVISED - DAG 1-1-14 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | | 362 FAP 362 AND FAP 361 | |
| ct:\pw_work\pwwdot\footemj\d0108315\ts05.dgn | | DRAWN - BCK | REVISED - | | F.A.P. RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 59 |
| | | CHECKED - DAD | REVISED - | | TS-05 | | CONTRACT NO. 61D62 | | |
| | | DATE - 10-28-09 | REVISED - | | SCALE: NONE | SHEET NO. 2 OF 7 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT | |

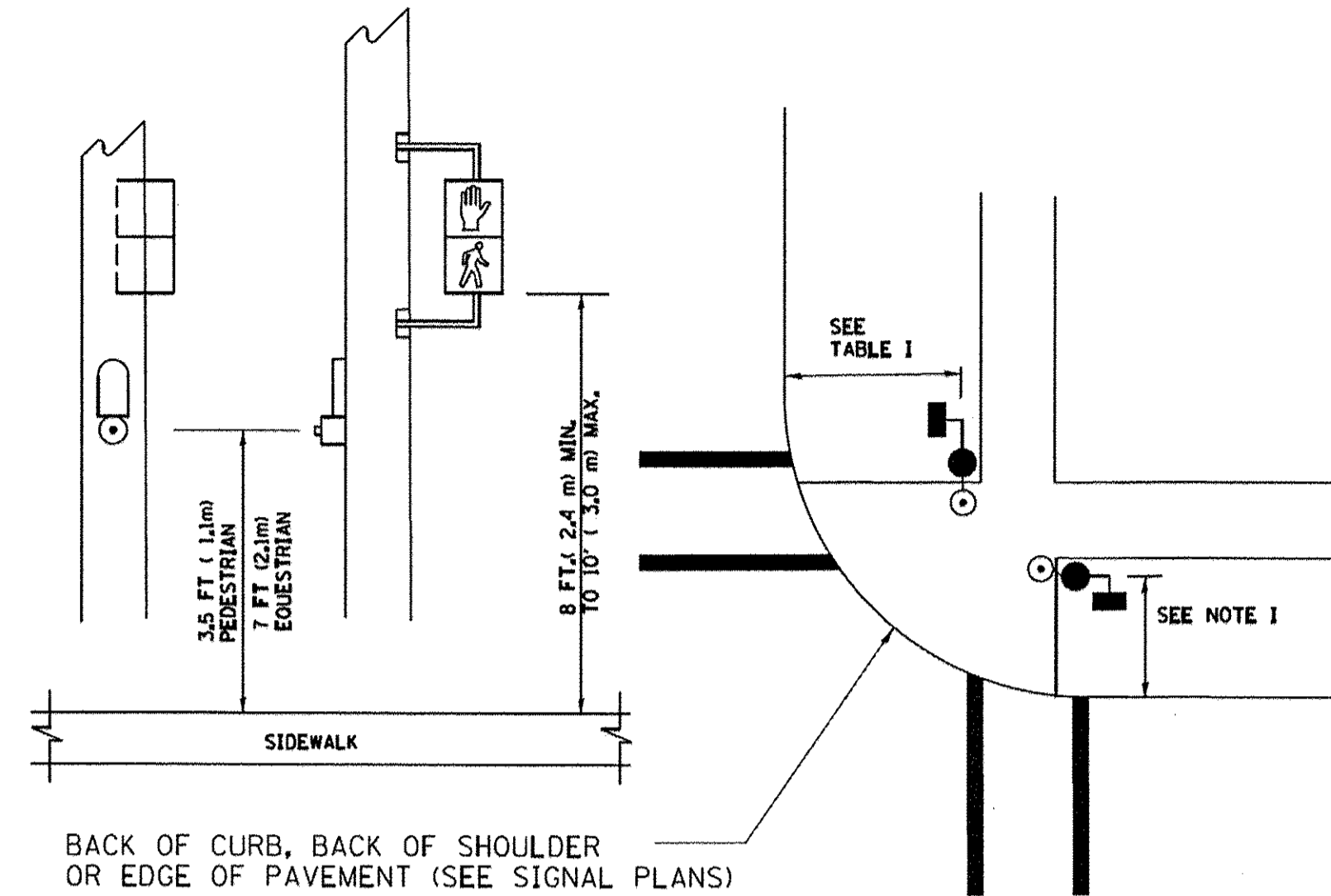
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

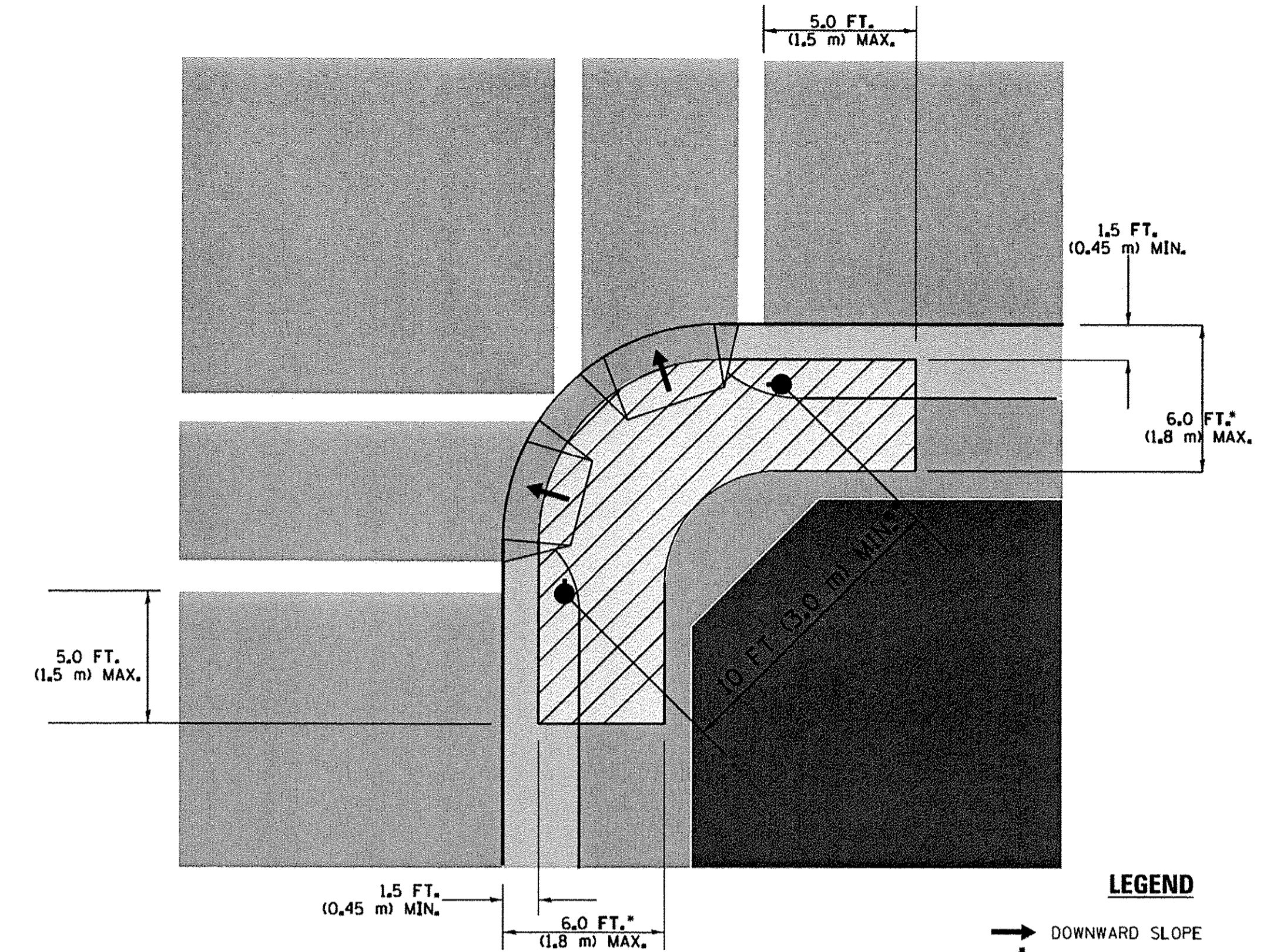
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

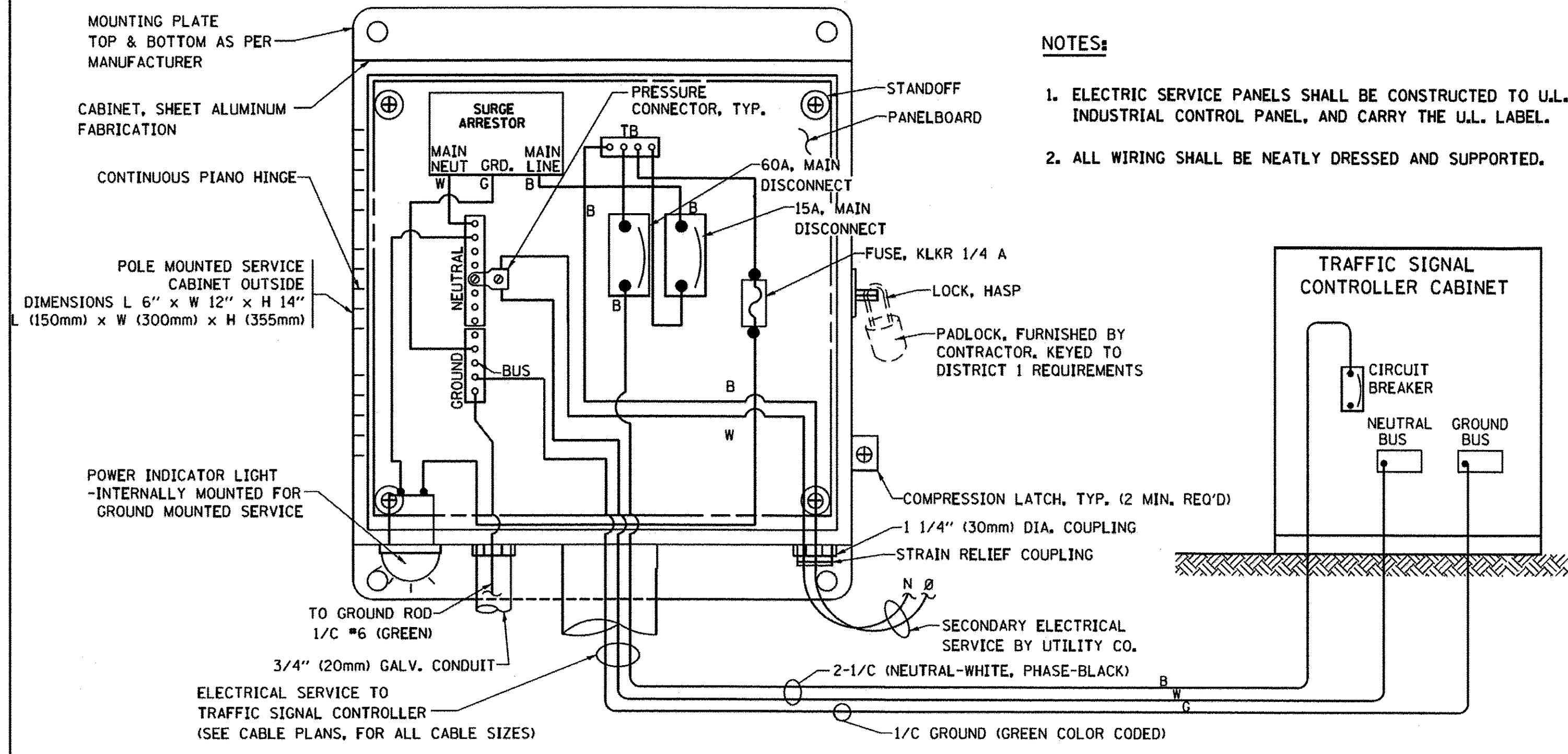
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

TRAFFIC SIGNAL EQUIPMENT OFFSET

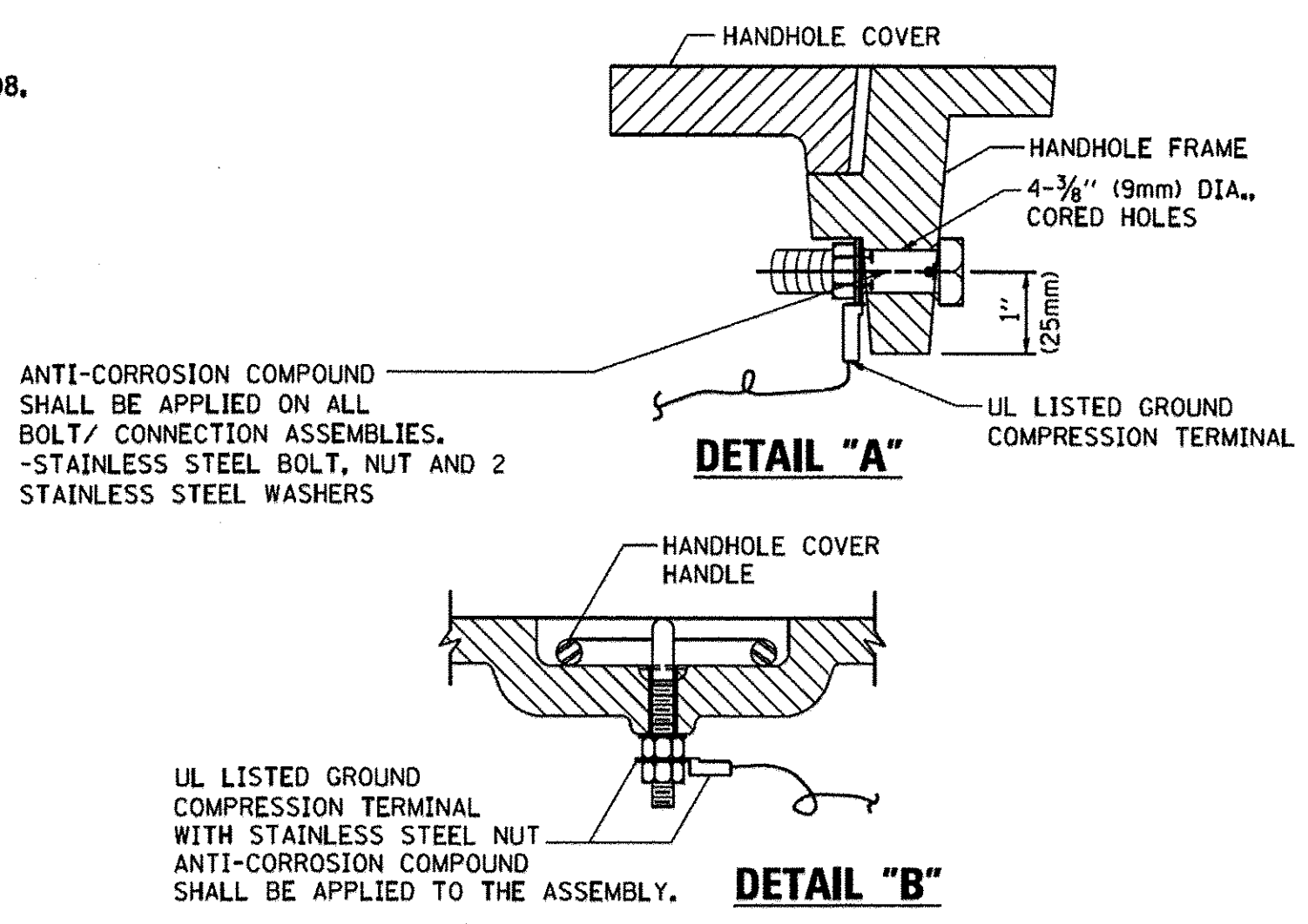
| TRAFFIC SIGNAL EQUIPMENT | COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION) | SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION) |
|------------------------------------|---|---|
| TRAFFIC SIGNAL MAST ARM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

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

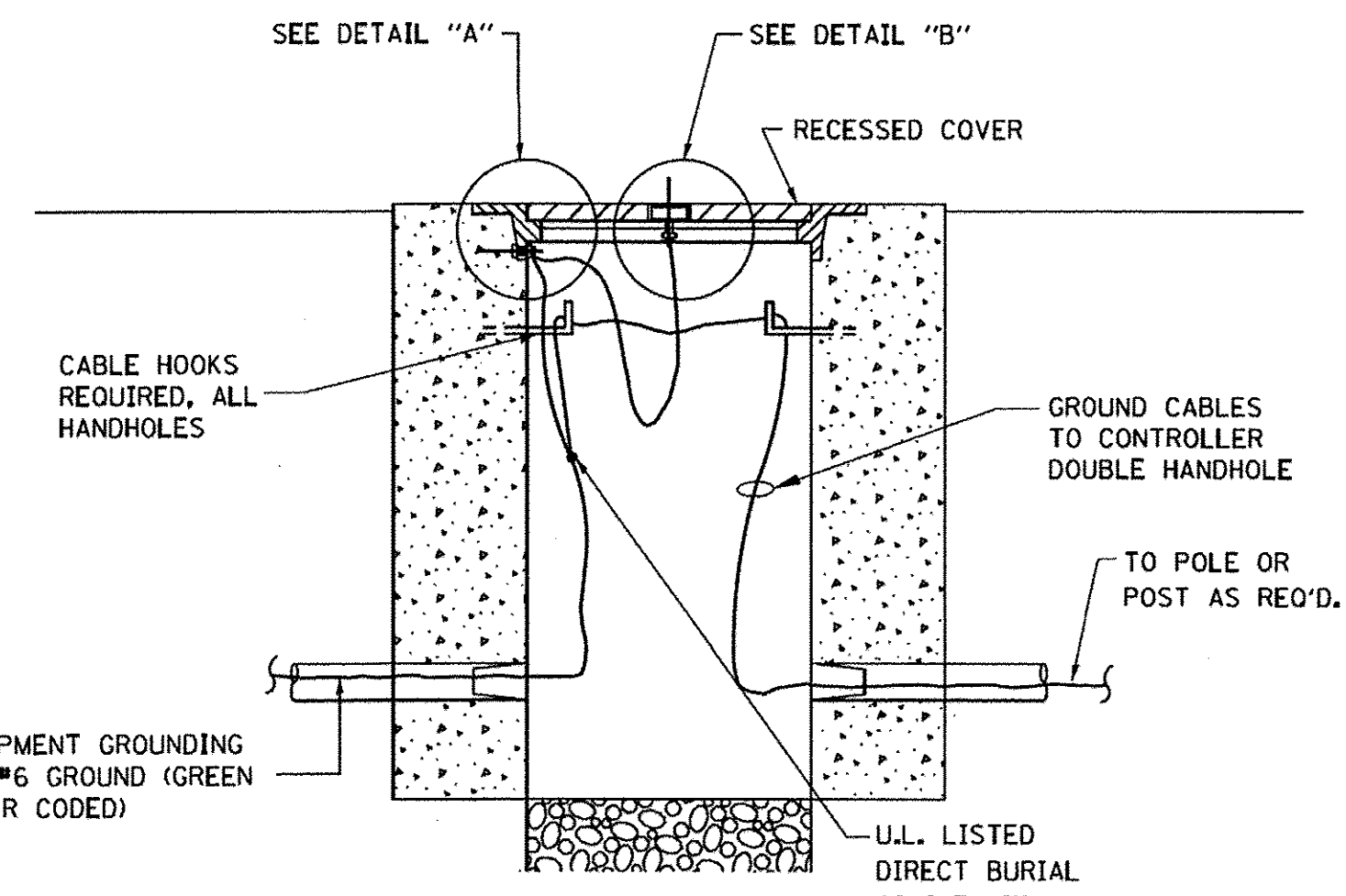


- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

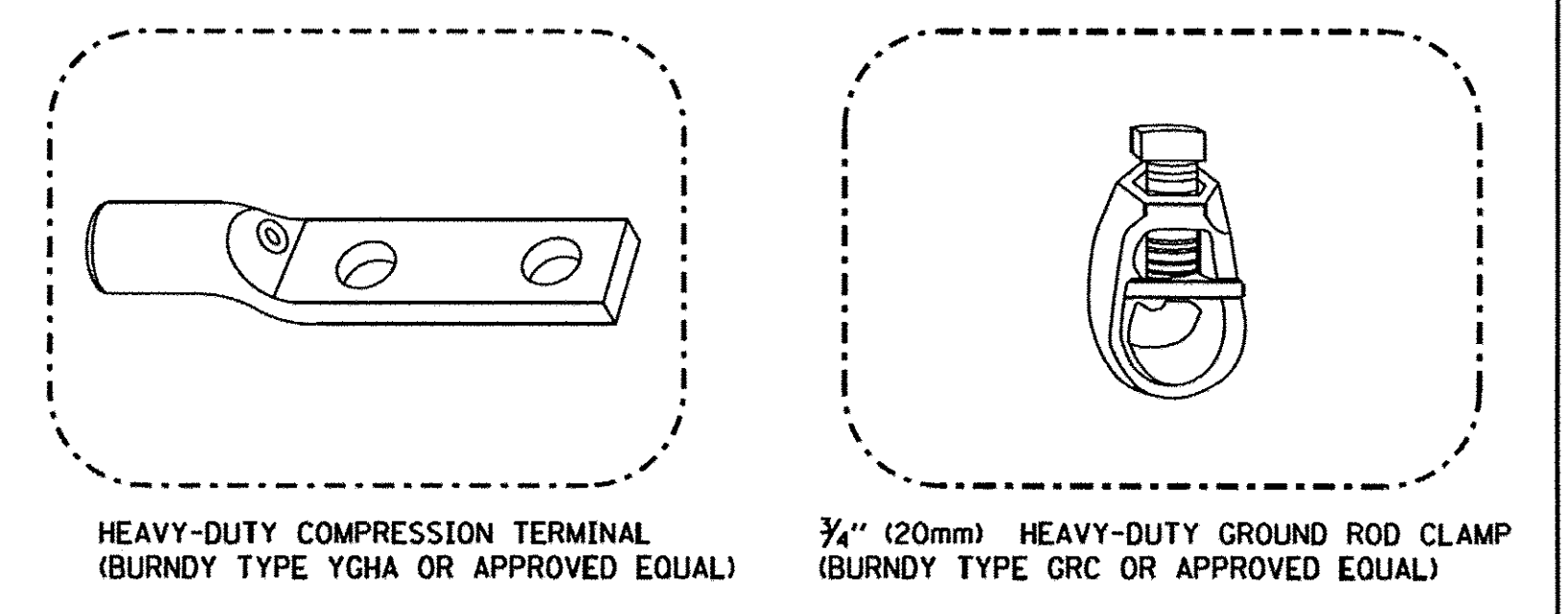


- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED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

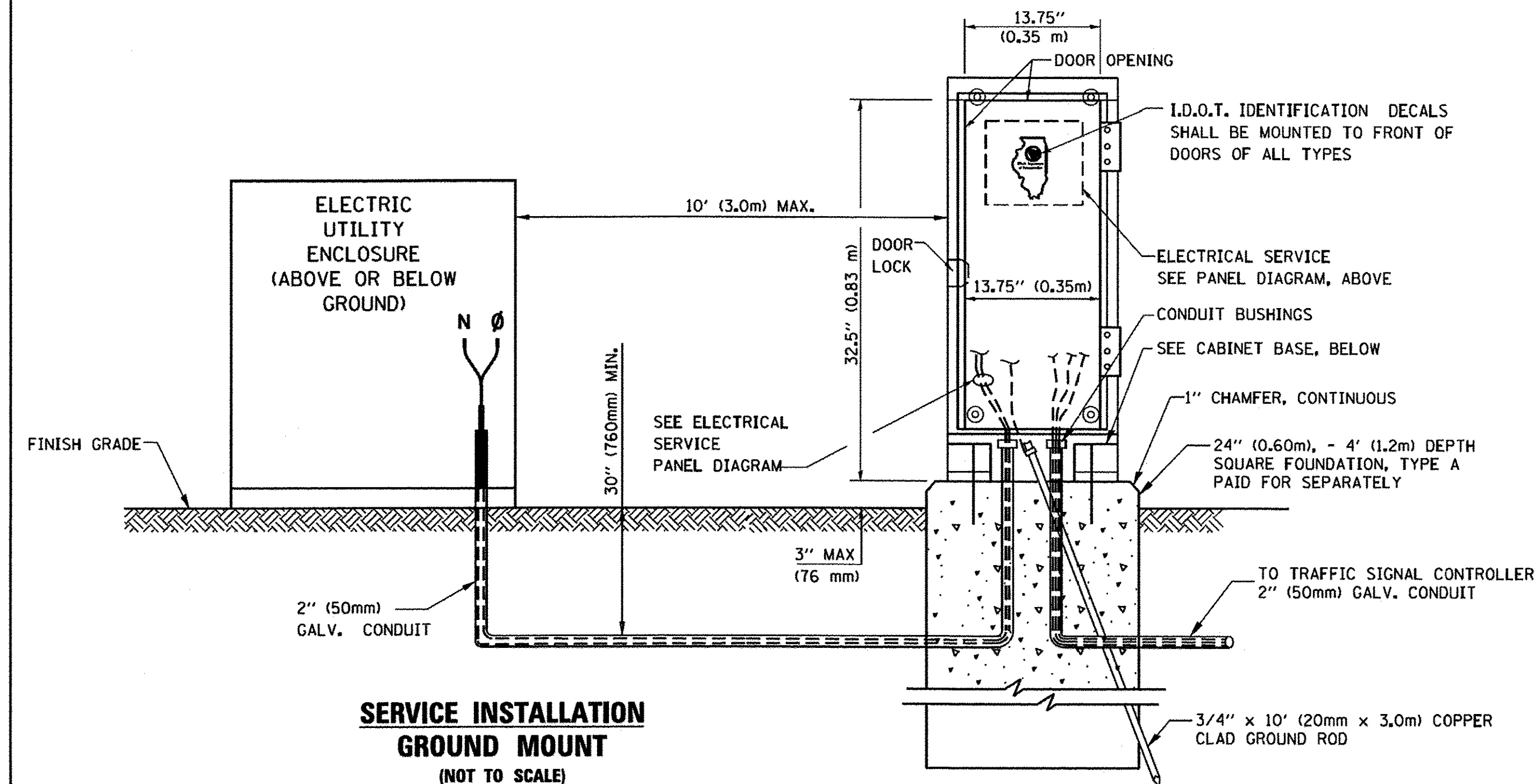
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



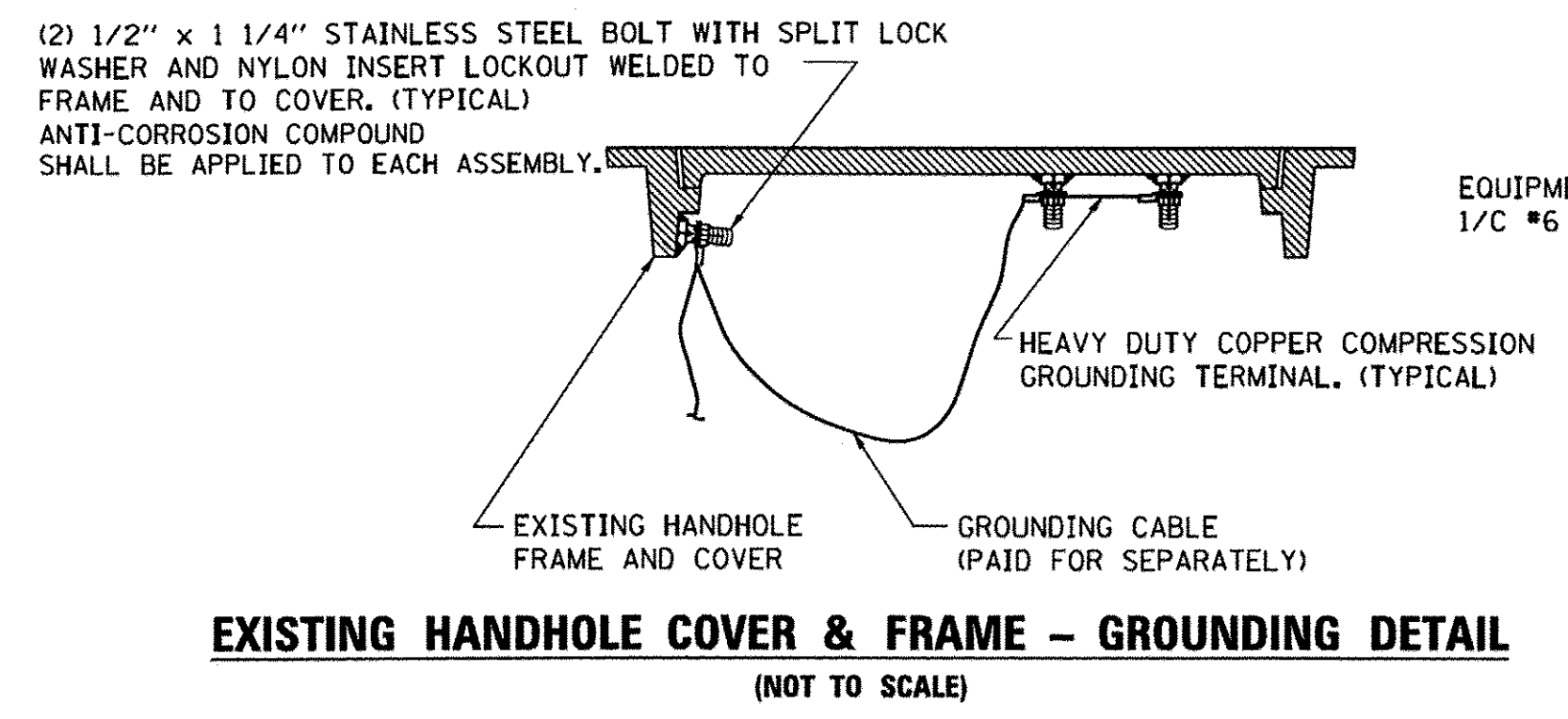
HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



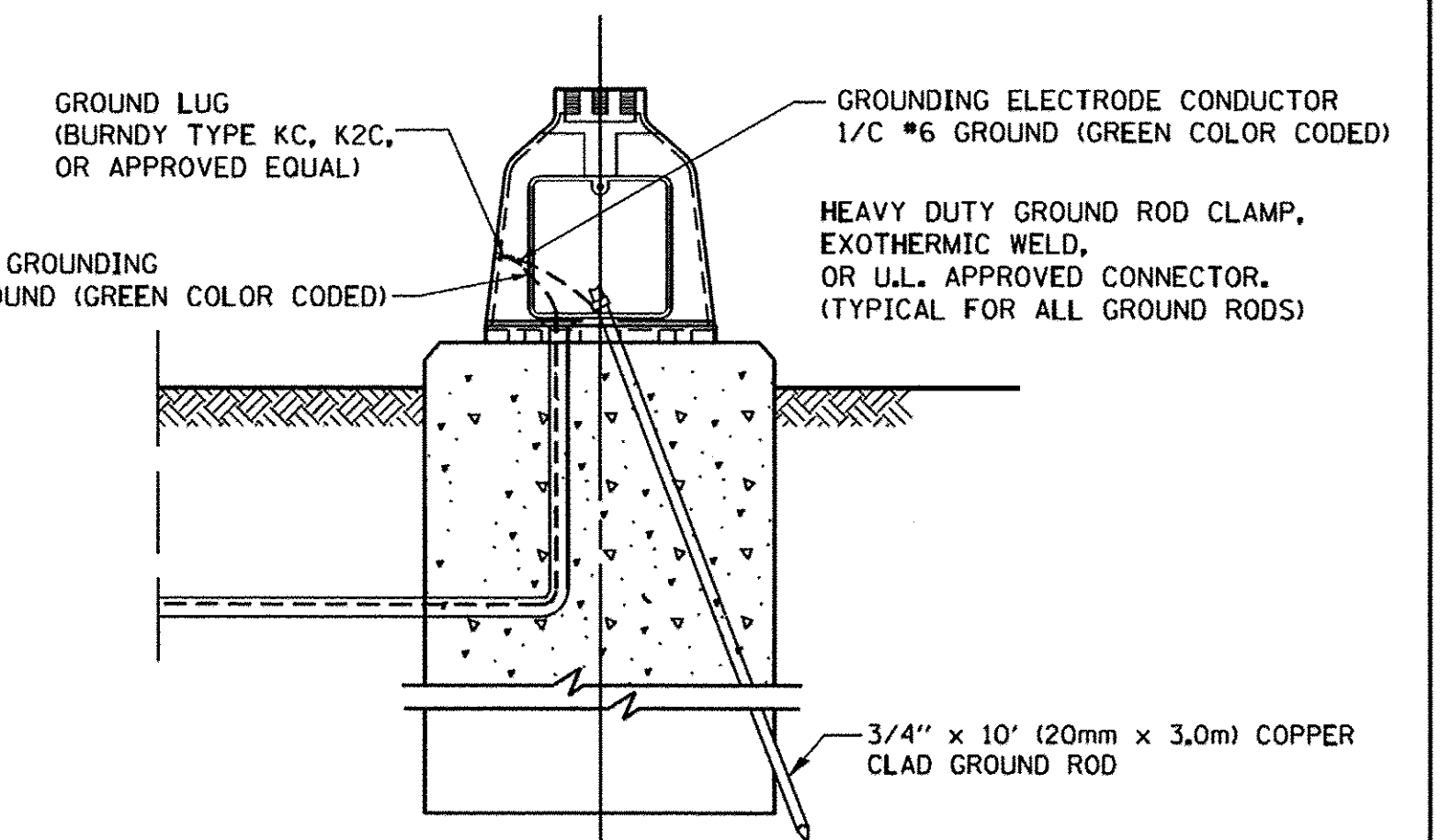
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

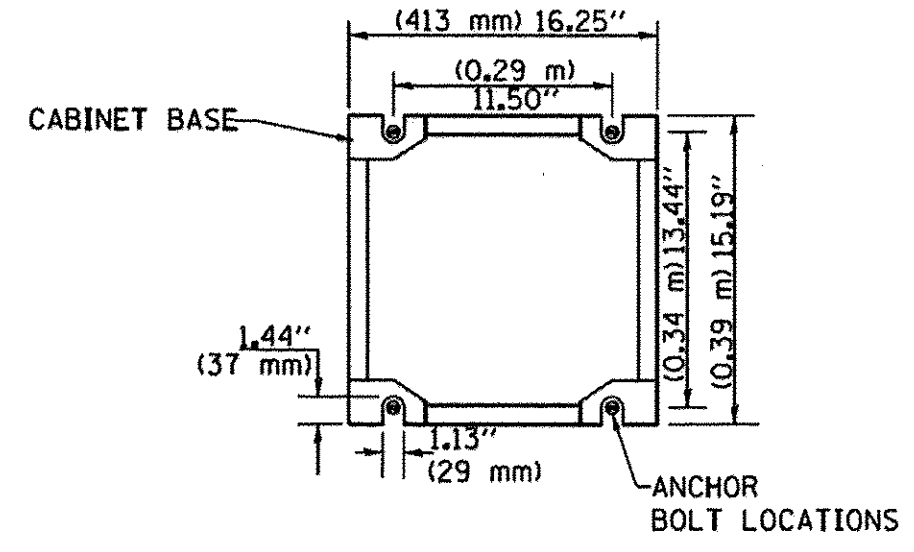


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)

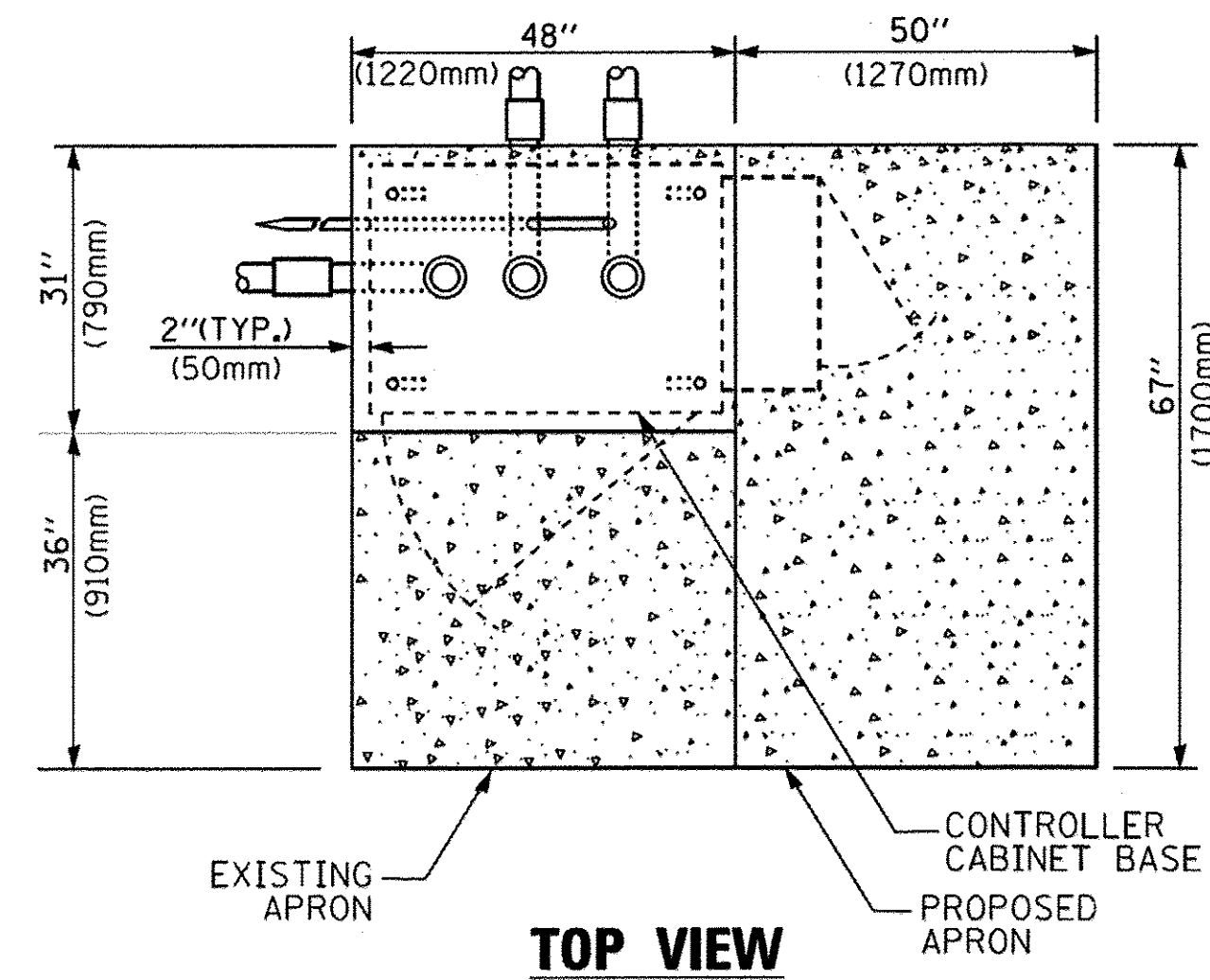


MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

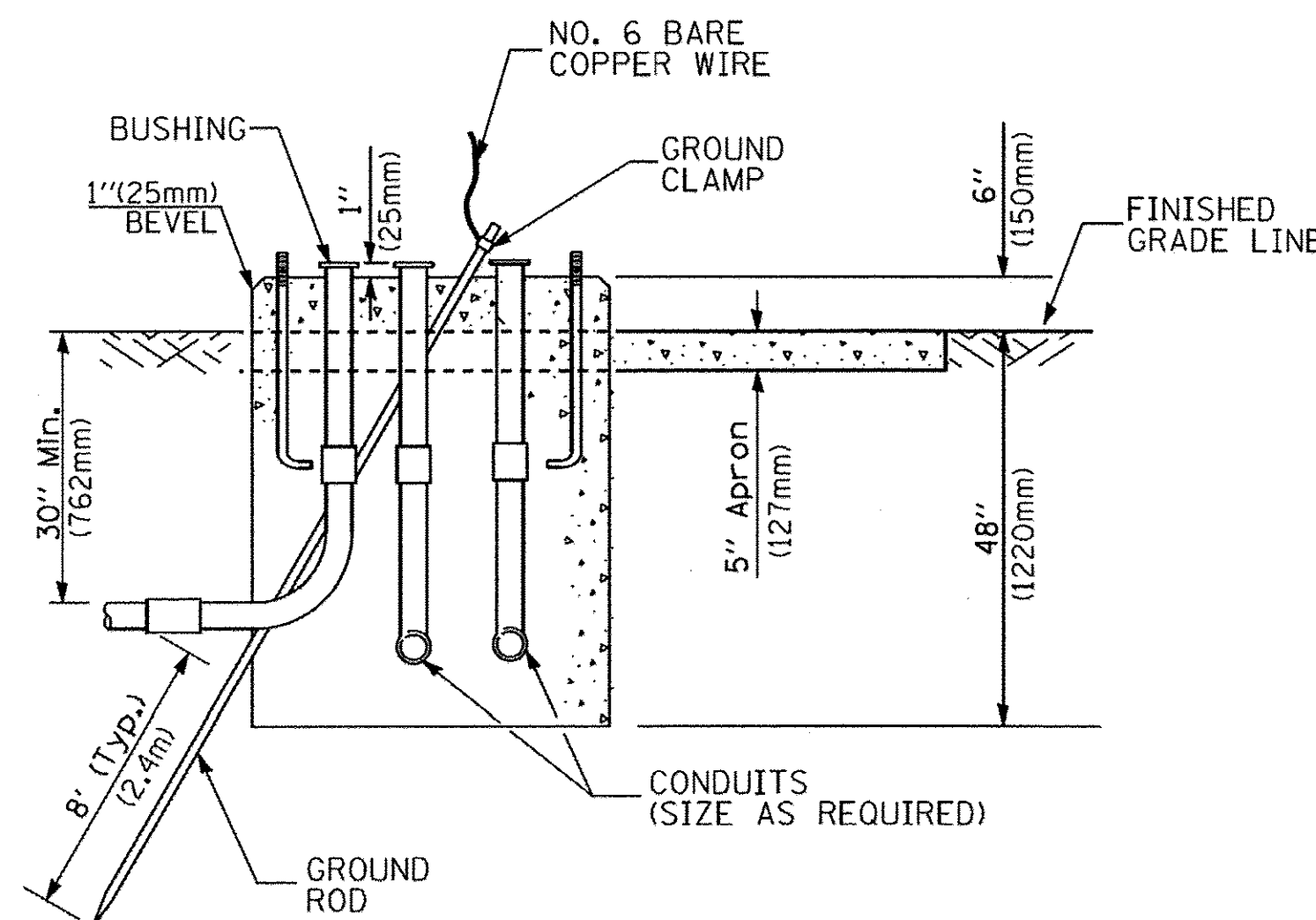
CABINET - BASE BOLT PATTERN (NOT TO SCALE)



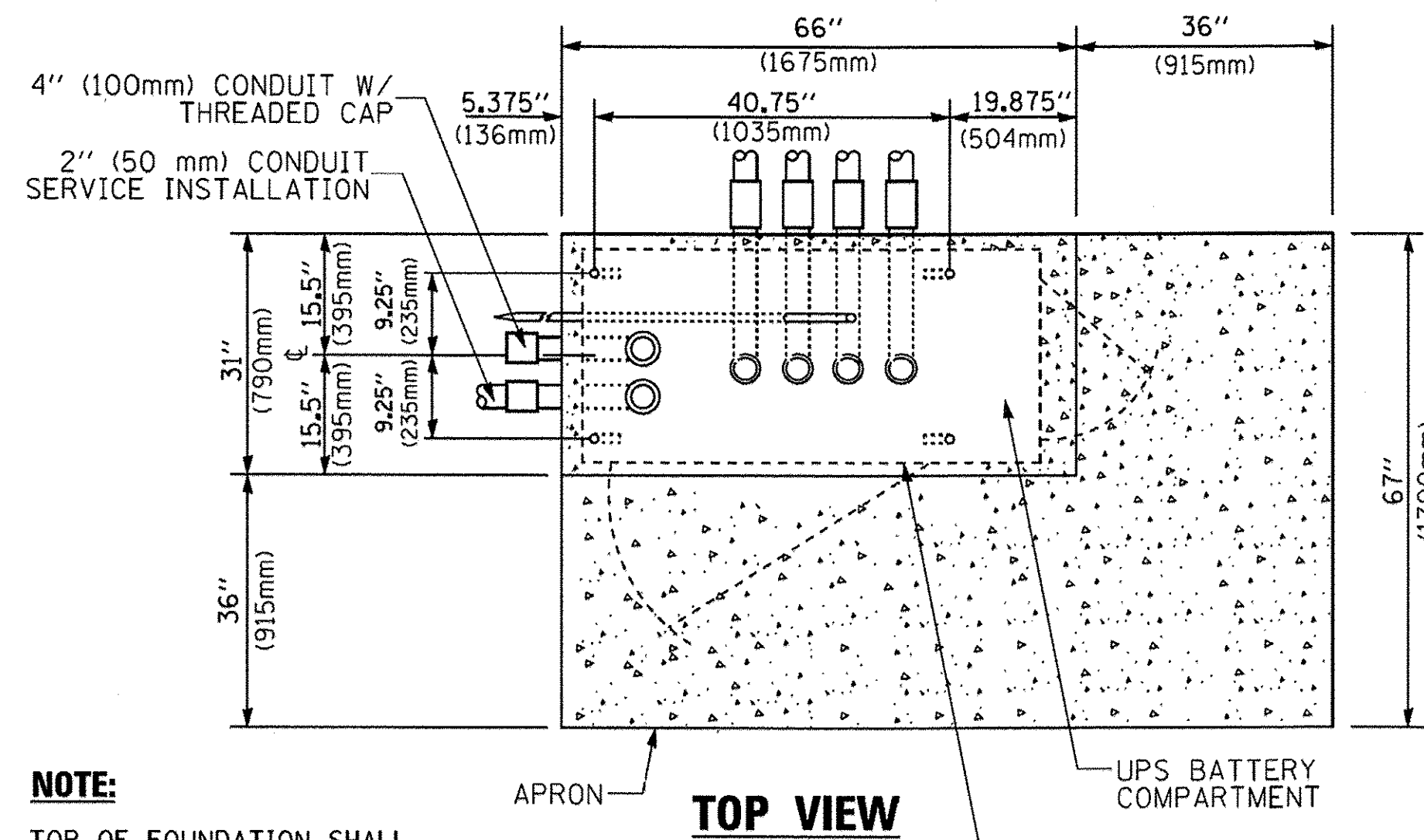
| | | | | | | | | | | | | |
|---|---------------------|-------------------------|----------------------|---|--|------------------|-------------------------|------------------|------------------------|---------------|-----------------|--------------|
| FILE NAME = | USER NAME = foatemj | DESIGNED - DAD | REVISED - DAG 1-1-14 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS | | 362 FAP 362 AND FAP 361 | F.A.P. RTEL. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 61 |
| CONTRACT NO. 61D62 | SCALE: NONE | SHEET NO. 4 OF 7 SHEETS | STA. TO STA. | | FED. ROAD DIST. NO. 1 ILLINOIS | FED. AID PROJECT | | | | | | |
| PLOT SCALE = 50.0000 "/td> <td>CHECKED - DAD</td> <td>REVIS</td> <td>REVIS</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> | CHECKED - DAD | REVIS | REVIS | | | | | | | | | |
| PLOT DATE = 1/13/2014 | DATE - 10-28-09 | REVIS | REVIS | | | | | | | | | |



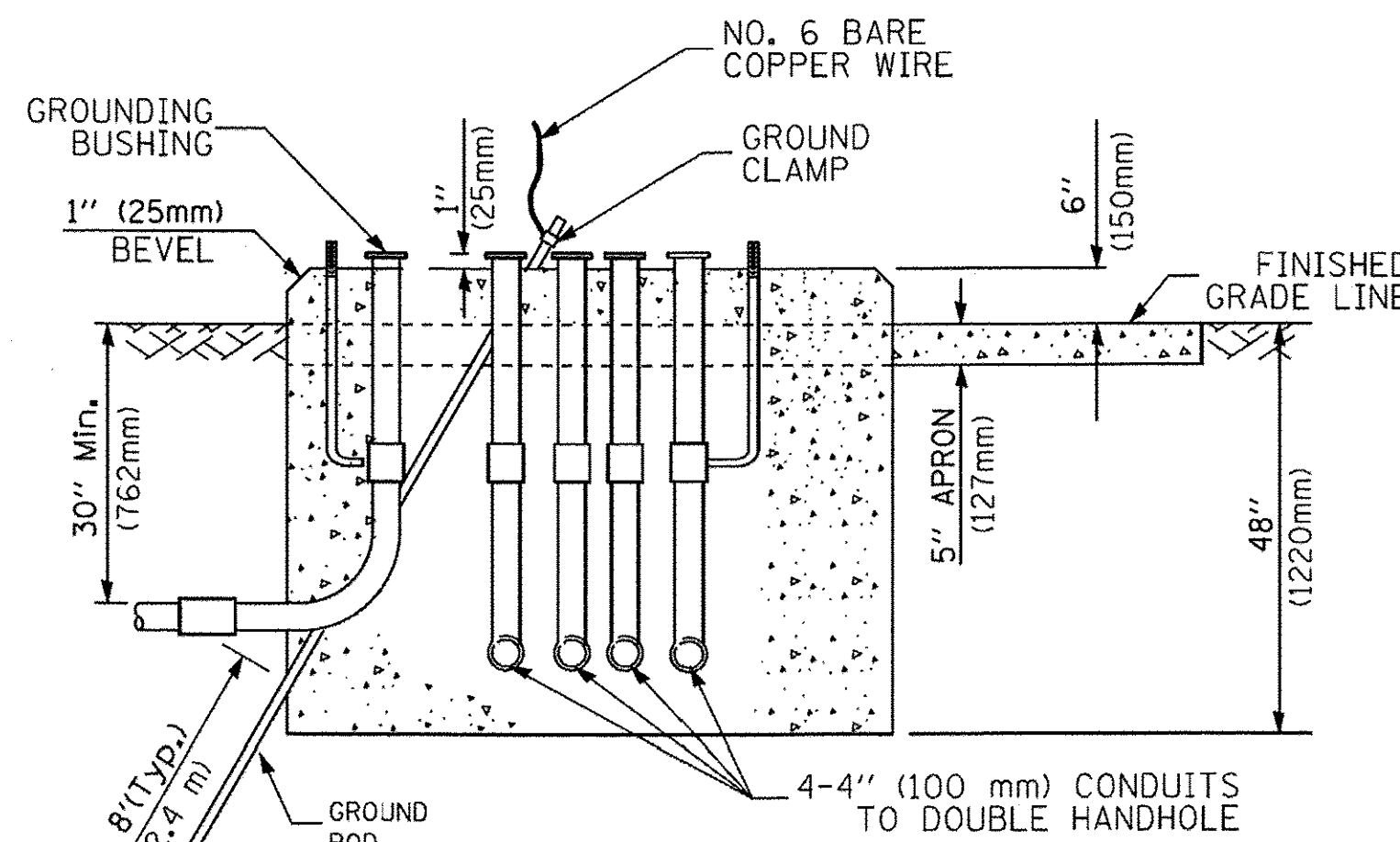
TOP VIEW



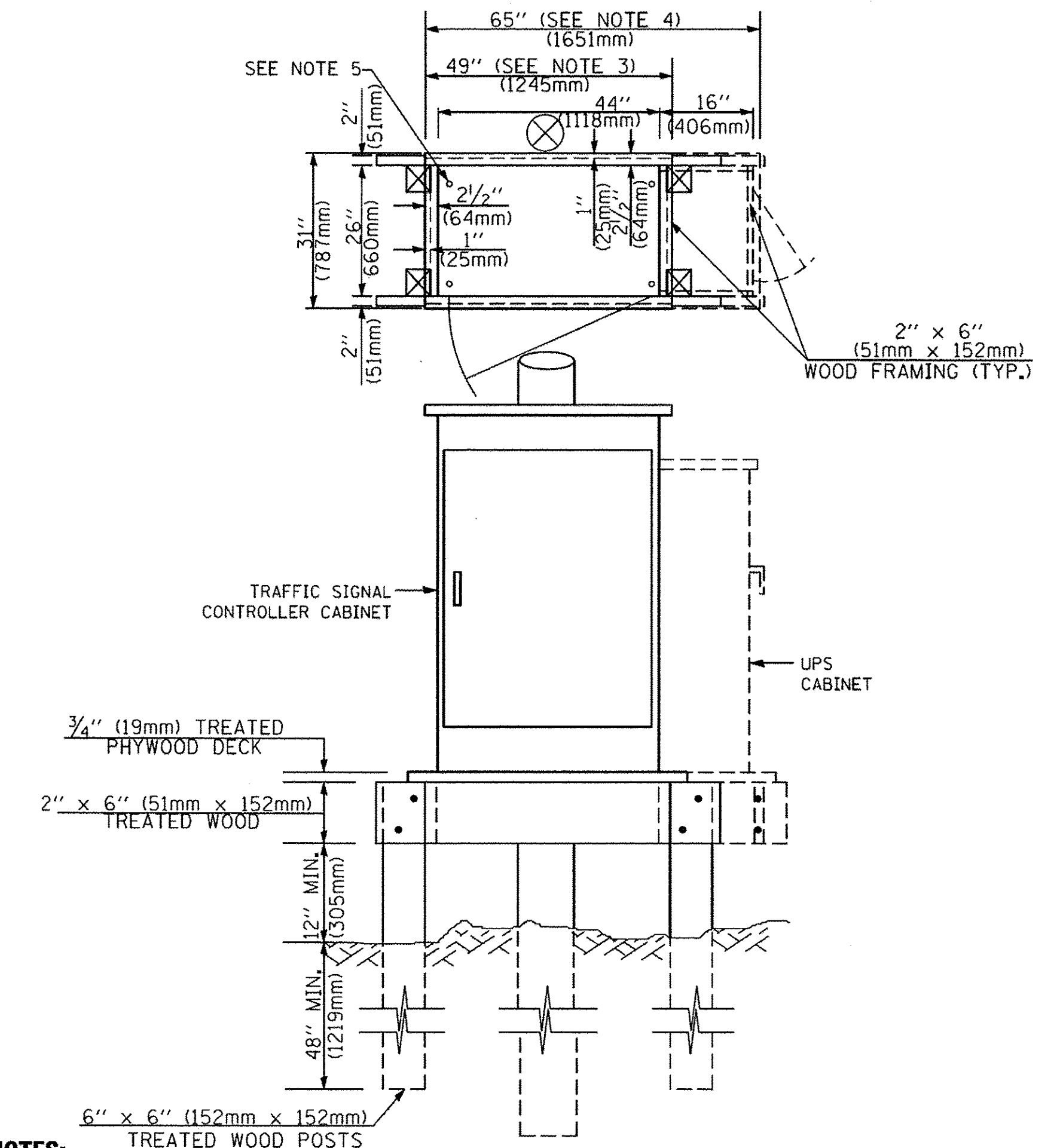
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm), ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm), ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

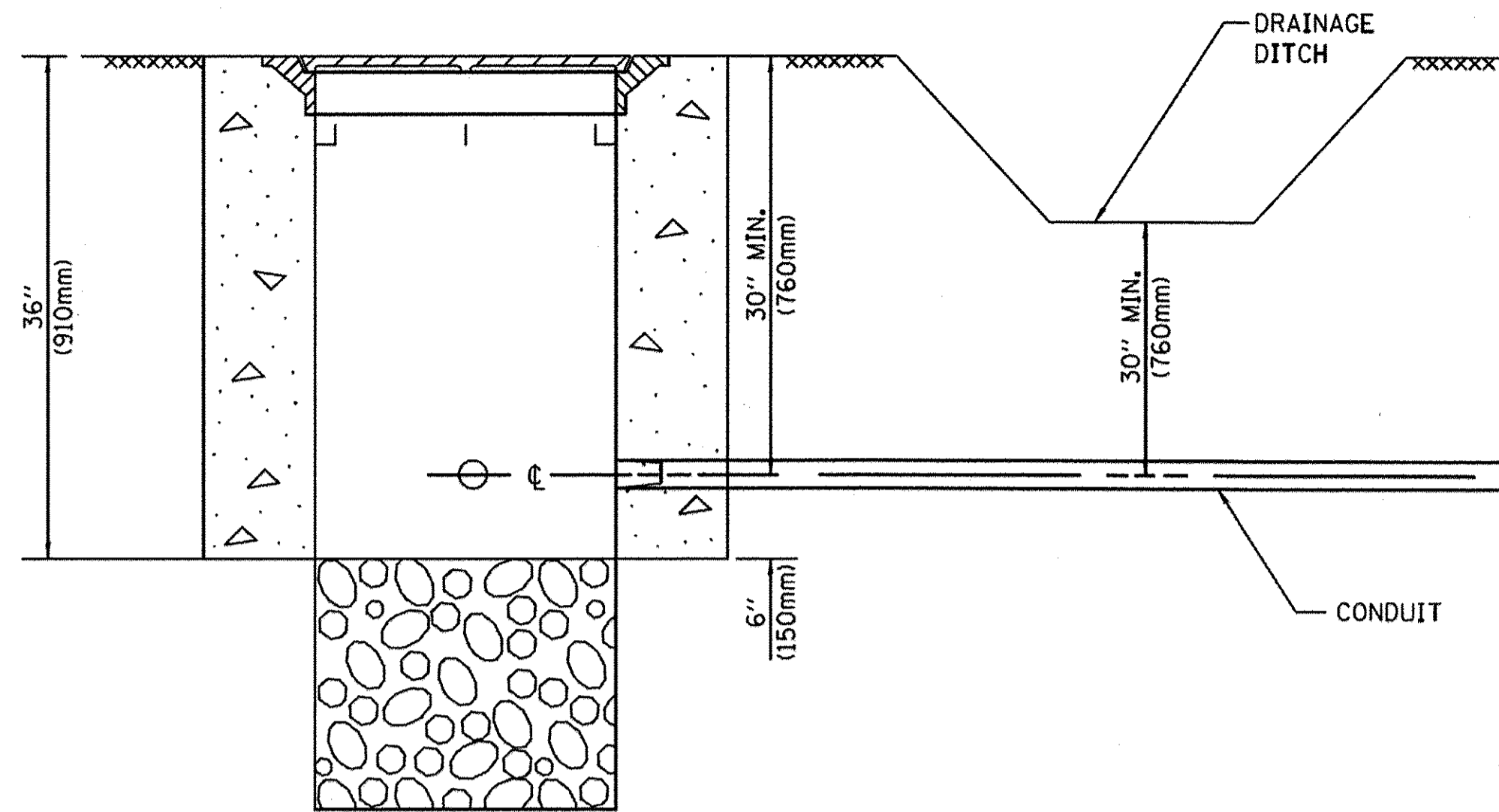
DEPTH OF FOUNDATION

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

NOTES:

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

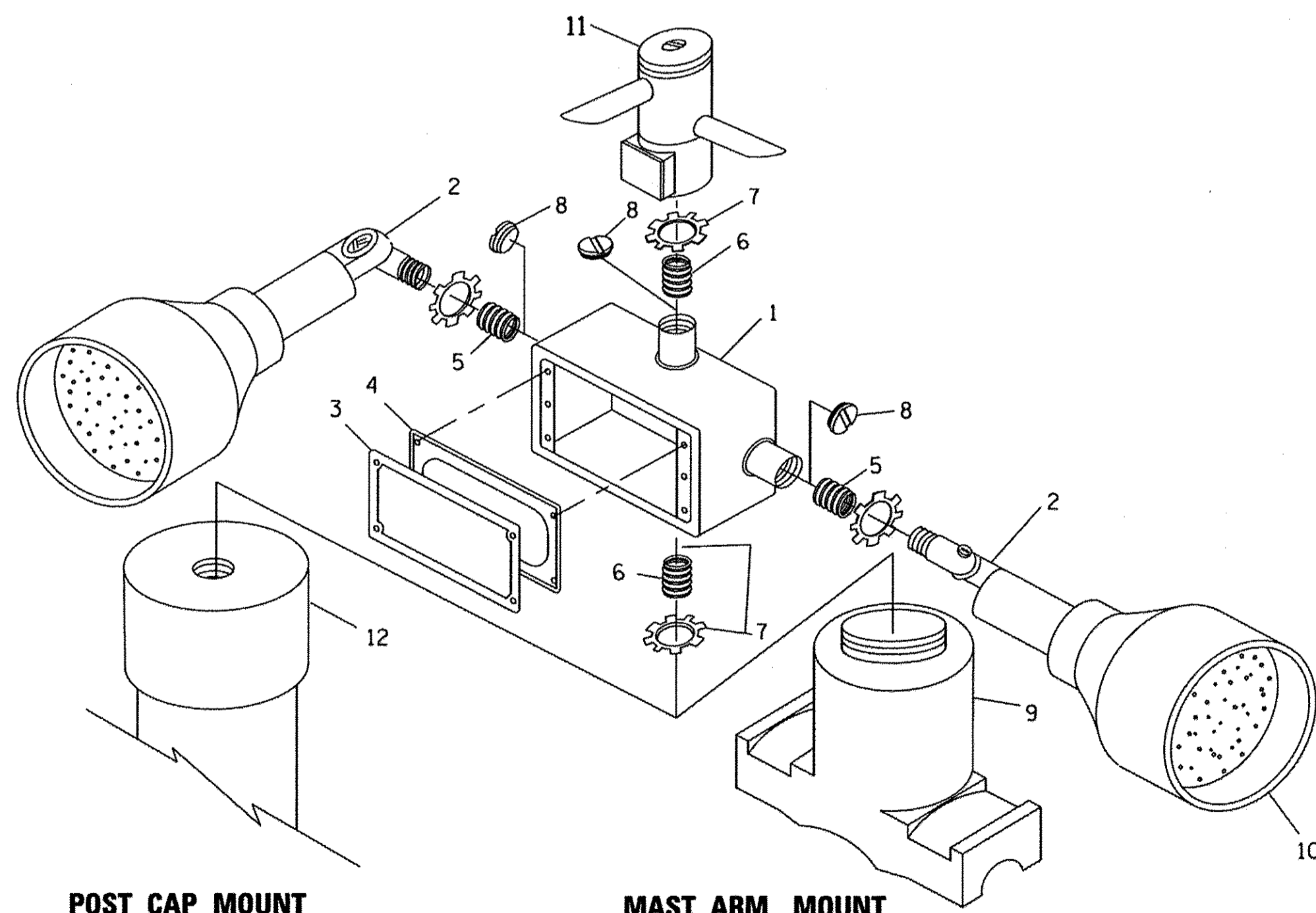
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



NOTES:

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

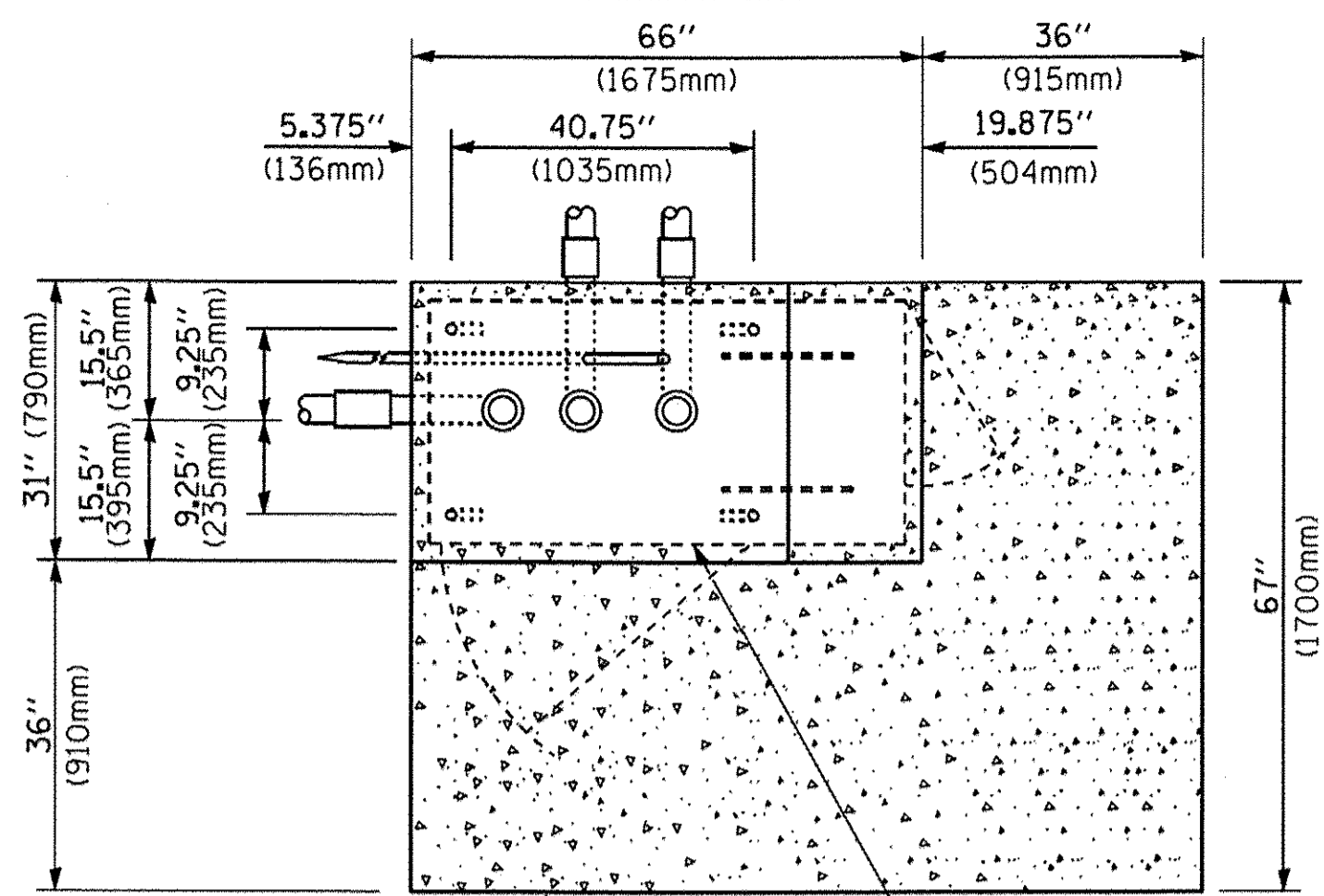
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



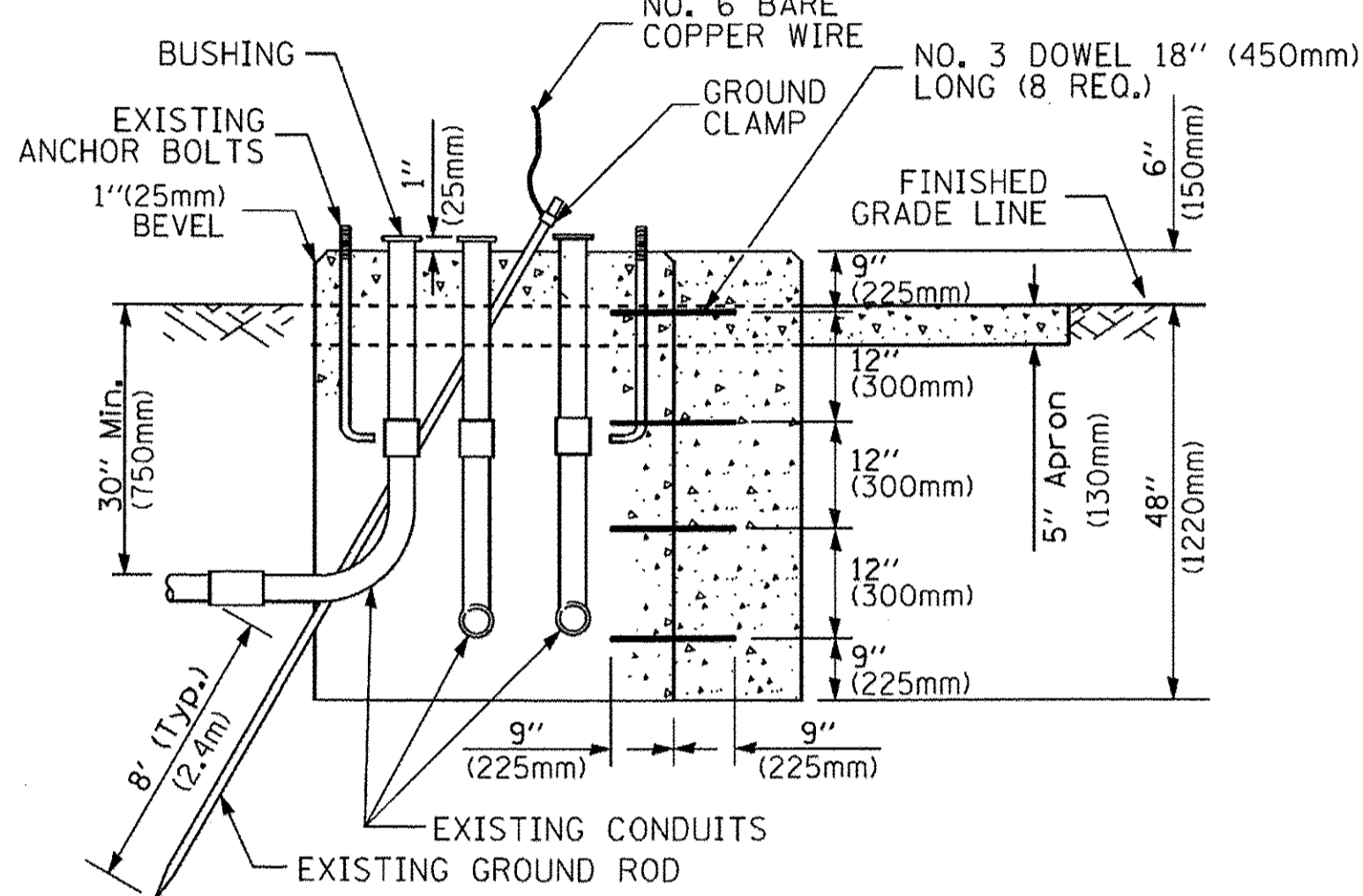
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

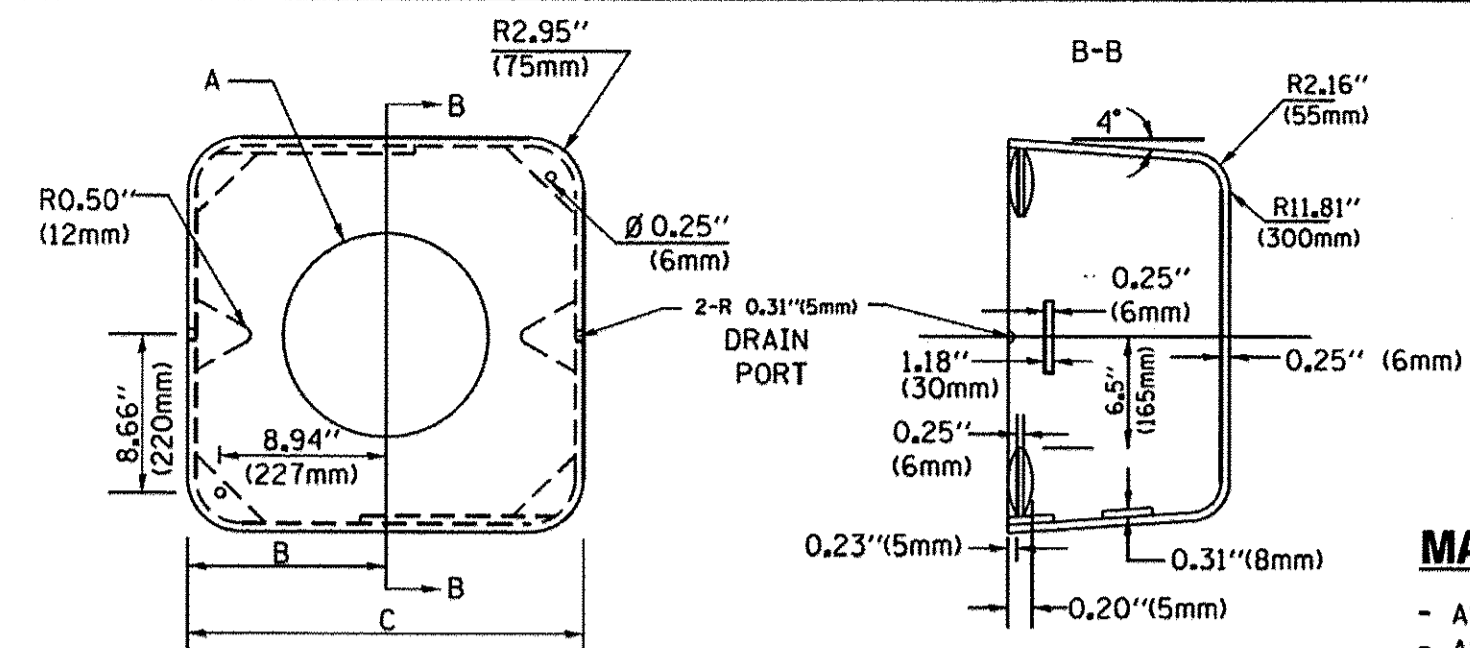


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

| ITEM NO. | IDENTIFICATION |
|----------|---|
| 1 | OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU-M) |
| 2 | LAMP HOLDER AND COVER |
| 3 | OUTLET BOX COVER |
| 4 | RUBBER COVER GASKET |
| 5 | REDUCING BUSHING |
| 6 | 3/4" (19 mm) CLOSE NIPPLE |
| 7 | 3/4" (19 mm) LOCKNUT |
| 8 | 3/4" (19 mm) HOLE PLUG |
| 9 | SADDLE BRACKET - GALV. |
| 10 | 6 WATT PAR 38 LED FLOOD LAMP |
| 11 | DETECTOR UNIT |
| 12 | POST CAP [18 FT. (5.4 m) POST MIN.] |

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



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

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

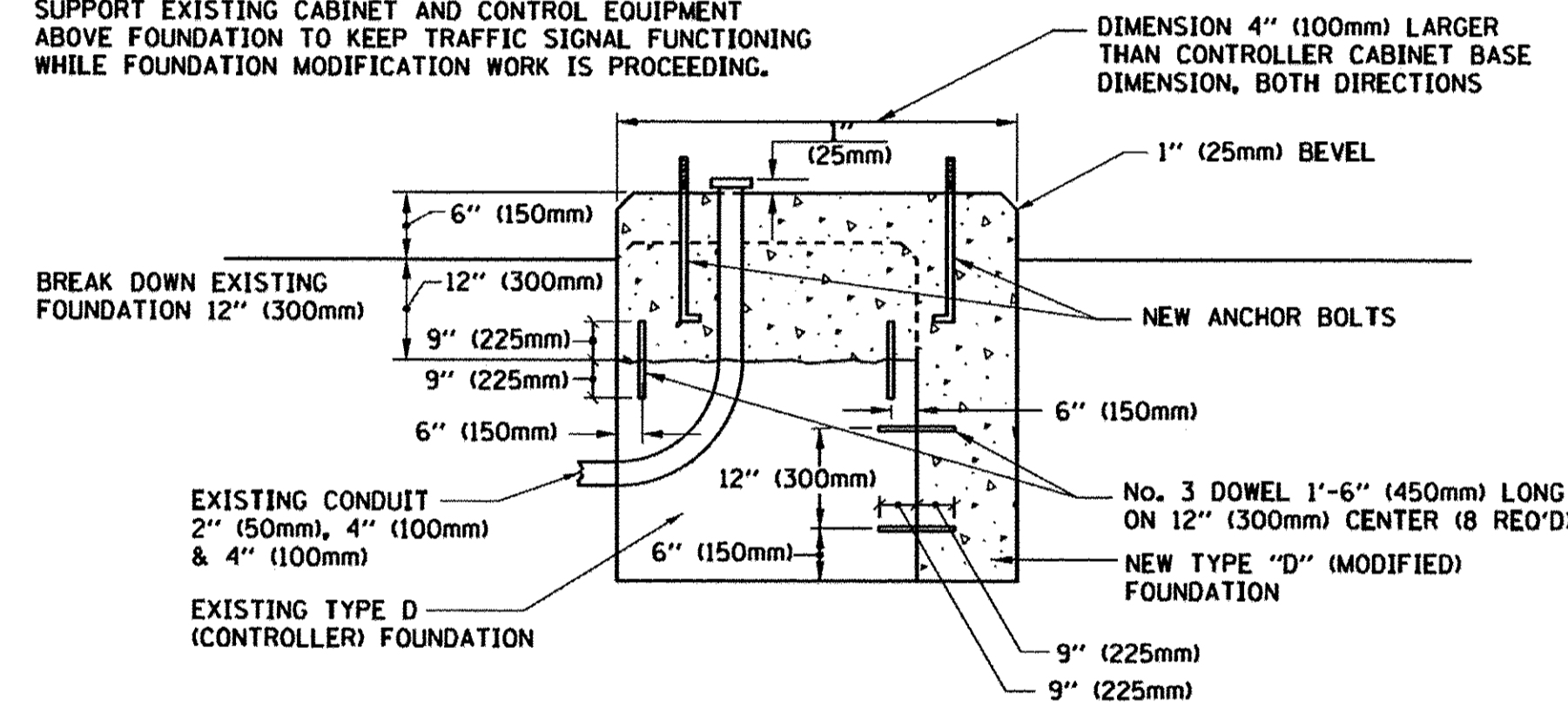
SHROUD

NOTES:

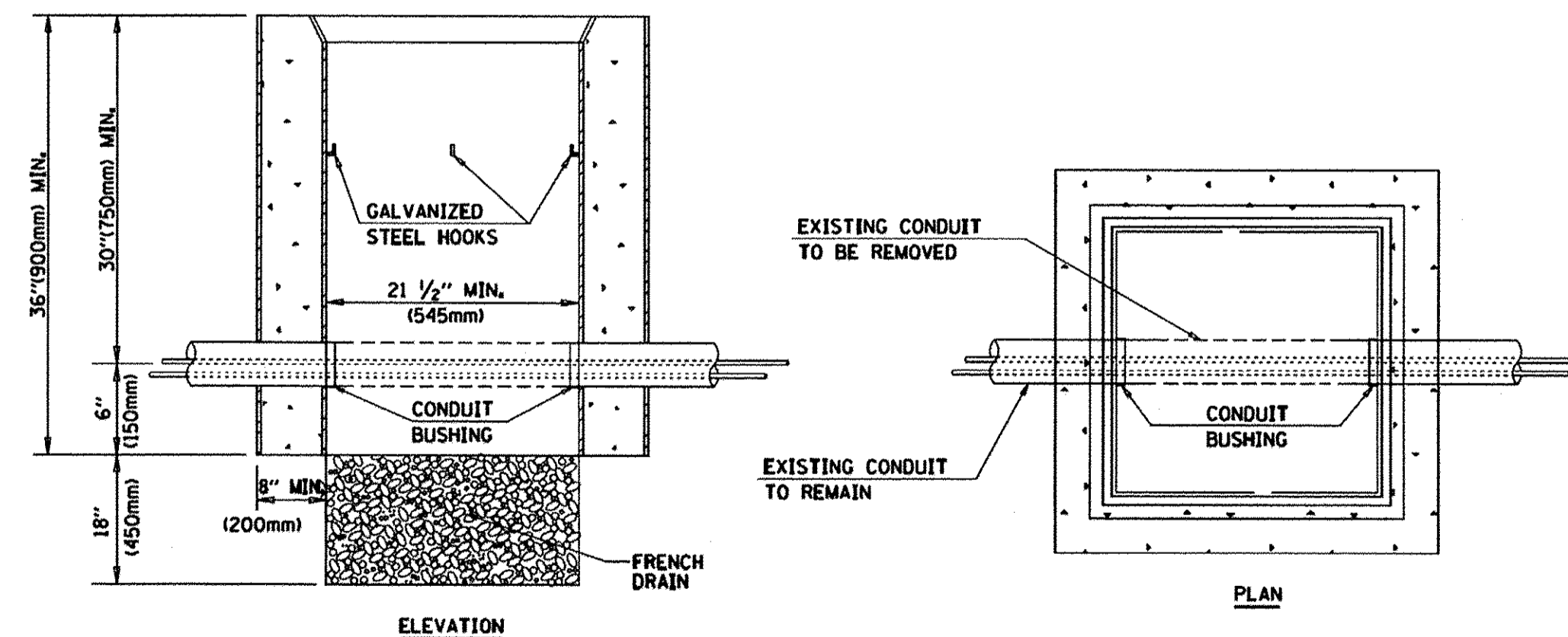
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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

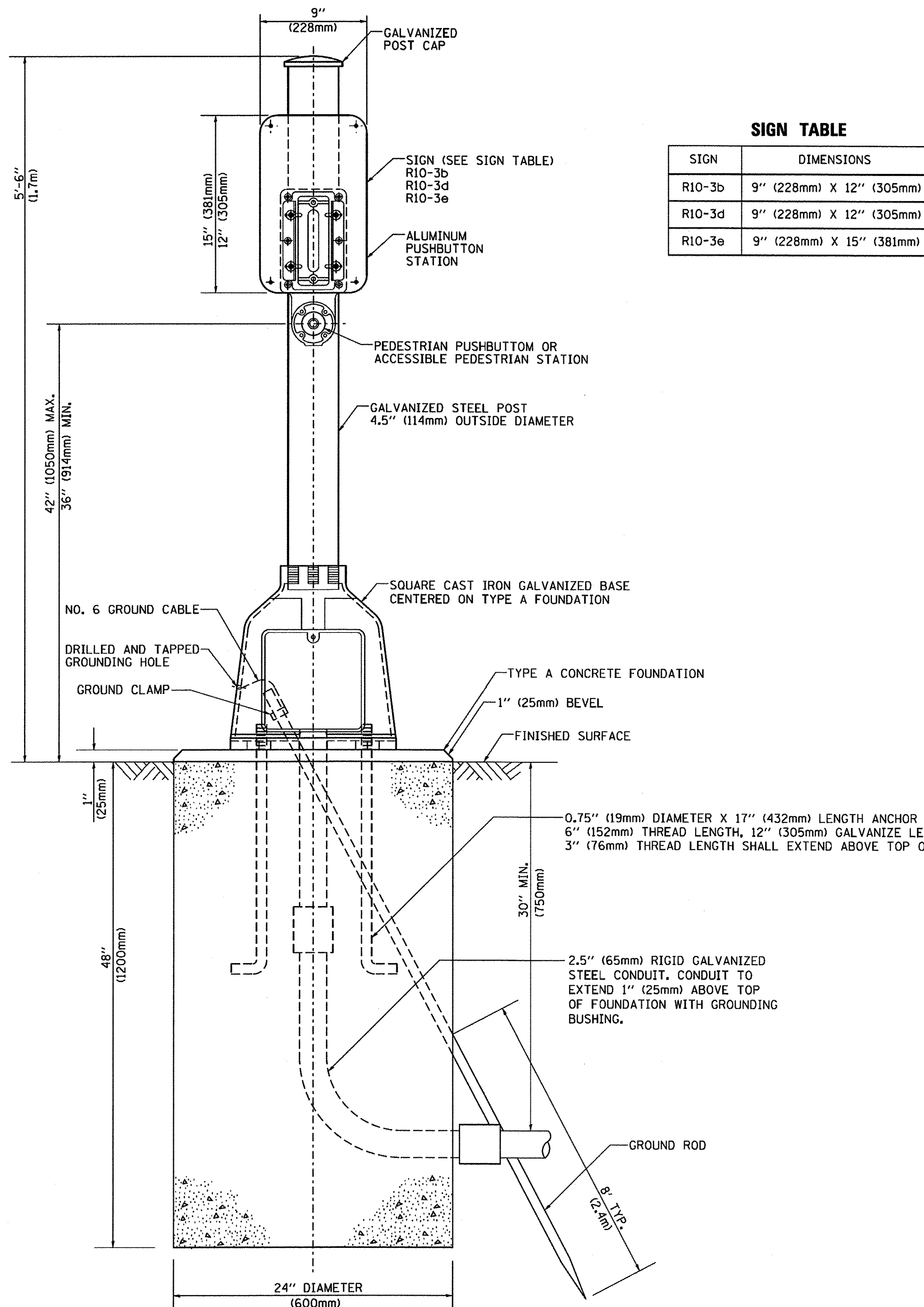
HANDHOLE TO INTERCEPT EXISTING CONDUIT

| | | | |
|--|-----------------------------|-----------------|----------------------|
| FILE NAME = | USER NAME = footemj | DESIGNED - DAD | REVISED - DAG 1-1-14 |
| ci:\pwork\pwork\footemj\0108315\ts05.dgn | | DRAWN - BCK | REVISED - |
| | PLOT SCALE = 50.0000' / in. | CHECKED - DAD | REVISED - |
| | PLOT DATE = 1/13/2014 | DATE - 10-28-09 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

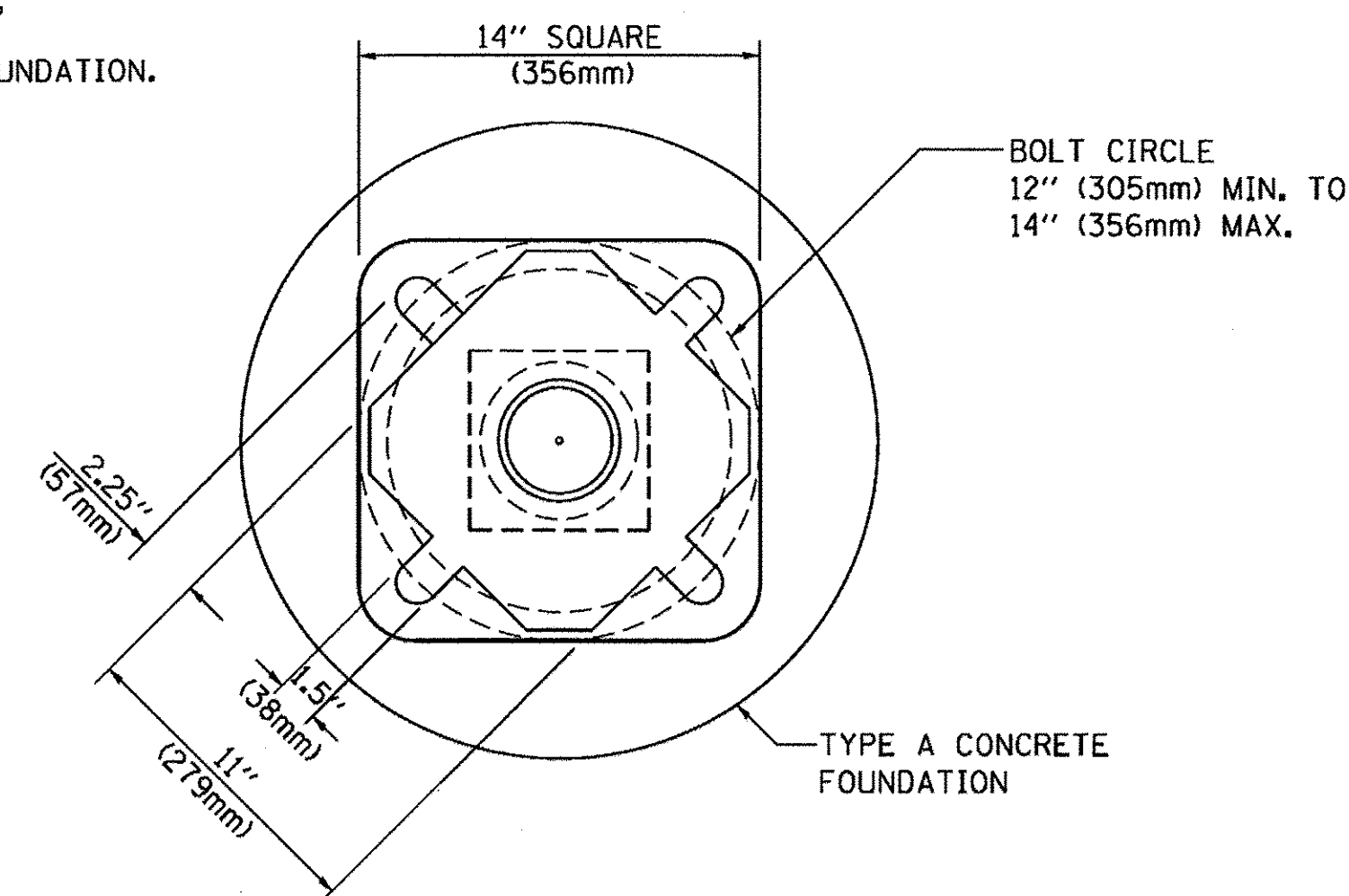
| | |
|--|-------------------------|
| DISTRICT ONE | |
| STANDARD TRAFFIC SIGNAL DESIGN DETAILS | |
| SCALE: NONE | SHEET NO. 6 OF 7 SHEETS |
| STA. | TO STA. |

| | |
|---|------------------------|
| 362 FAP 362 AND FAP 361 | |
| F.A.P. RTE. 362 | SECTION 14-00179-31-SP |
| COUNTY DUPAGE | TOTAL SHEETS 99 |
| CONTRACT NO. 61D62 | SHEET NO. 63 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | |



SIGN TABLE

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

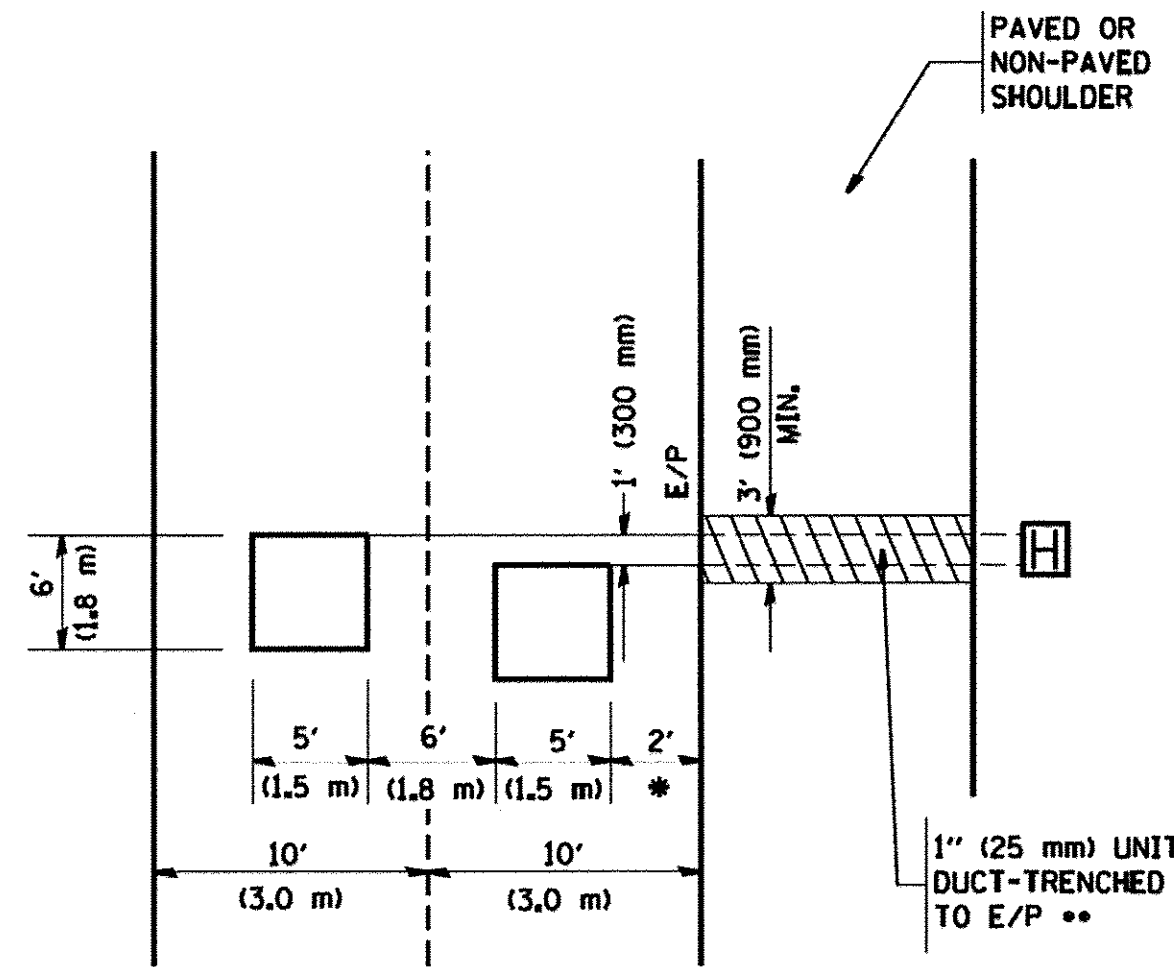


BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

| | | | | | | | | | | | | | |
|------------------------------|---------------------|----------------|----------------------|---|--|---|-------------------------|-----------------|------------------------|---------------|-----------------|--------------------|--|
| FILE NAME = | USER NAME = footemj | DESIGNED - DAG | REVISED - DAG 1-1-14 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS | 362 FAP 362 AND FAP 361 | | F.A.P. RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 64 | |
| PLLOT SCALE = 50.0000' / in. | CHECKED - DAD | REVISIED - | REVISIED - | | | SCALE: NONE | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA. | TS-05 | | CONTRACT NO. 61D62 | |
| PLLOT DATE = 1/13/2014 | DATE - 10/1/2012 | REVISIED - | REVISIED - | | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | | | |
| | | | | | | | | | | | | | |

LOOPS NEXT TO SHOULDERS

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



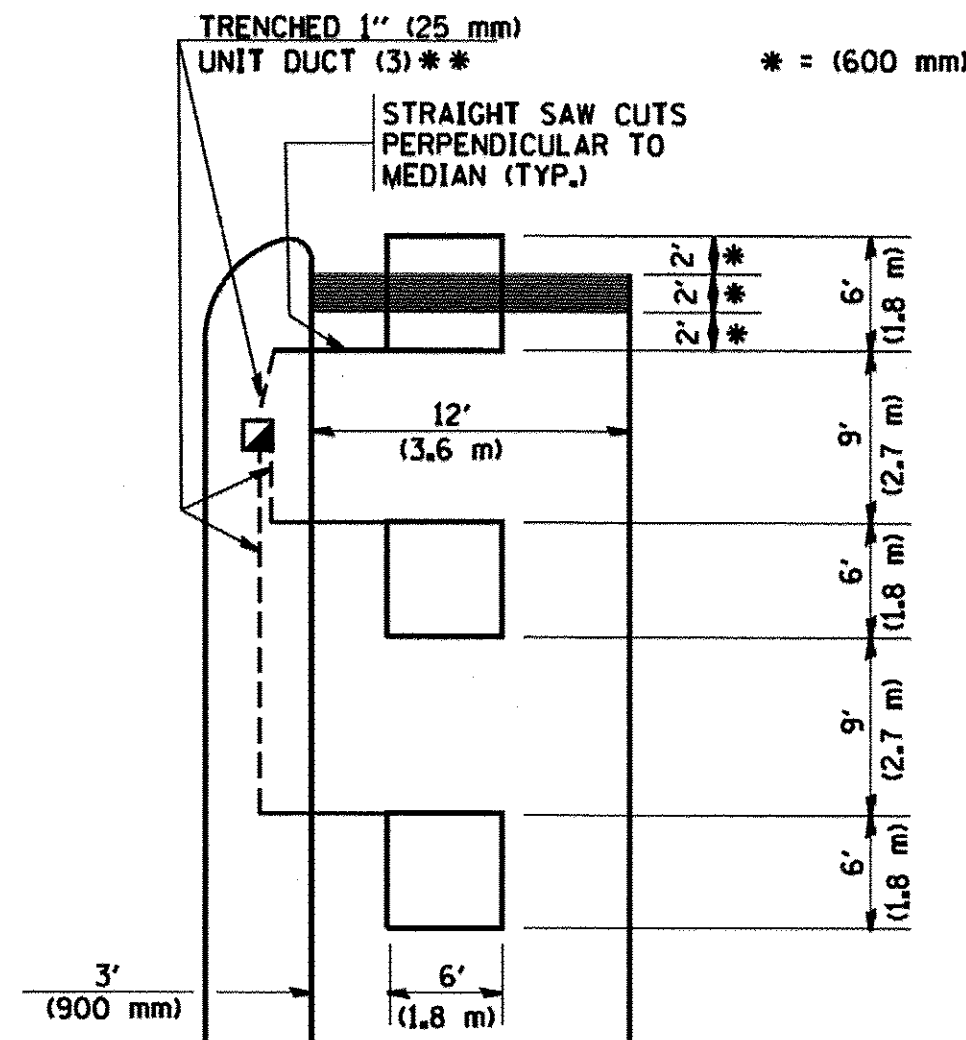
* = (600 mm)

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

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

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

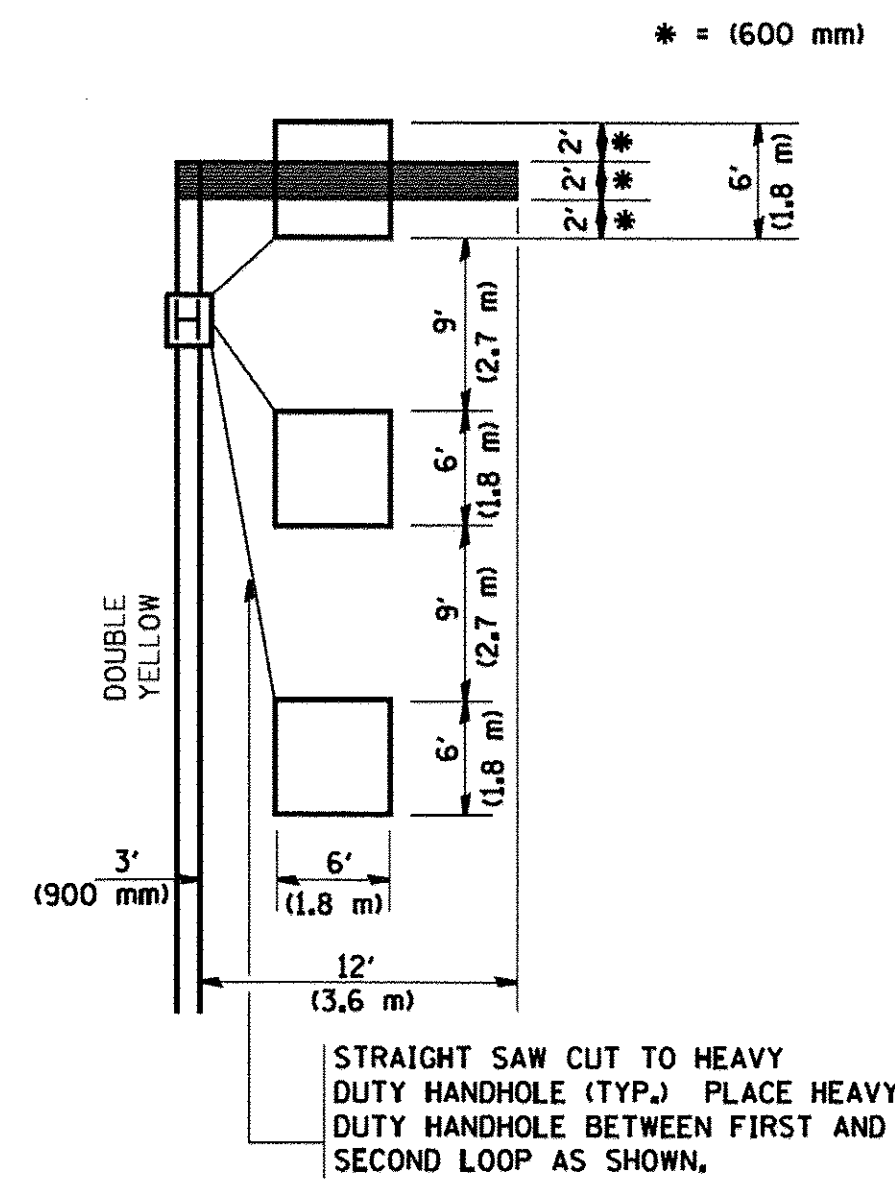


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

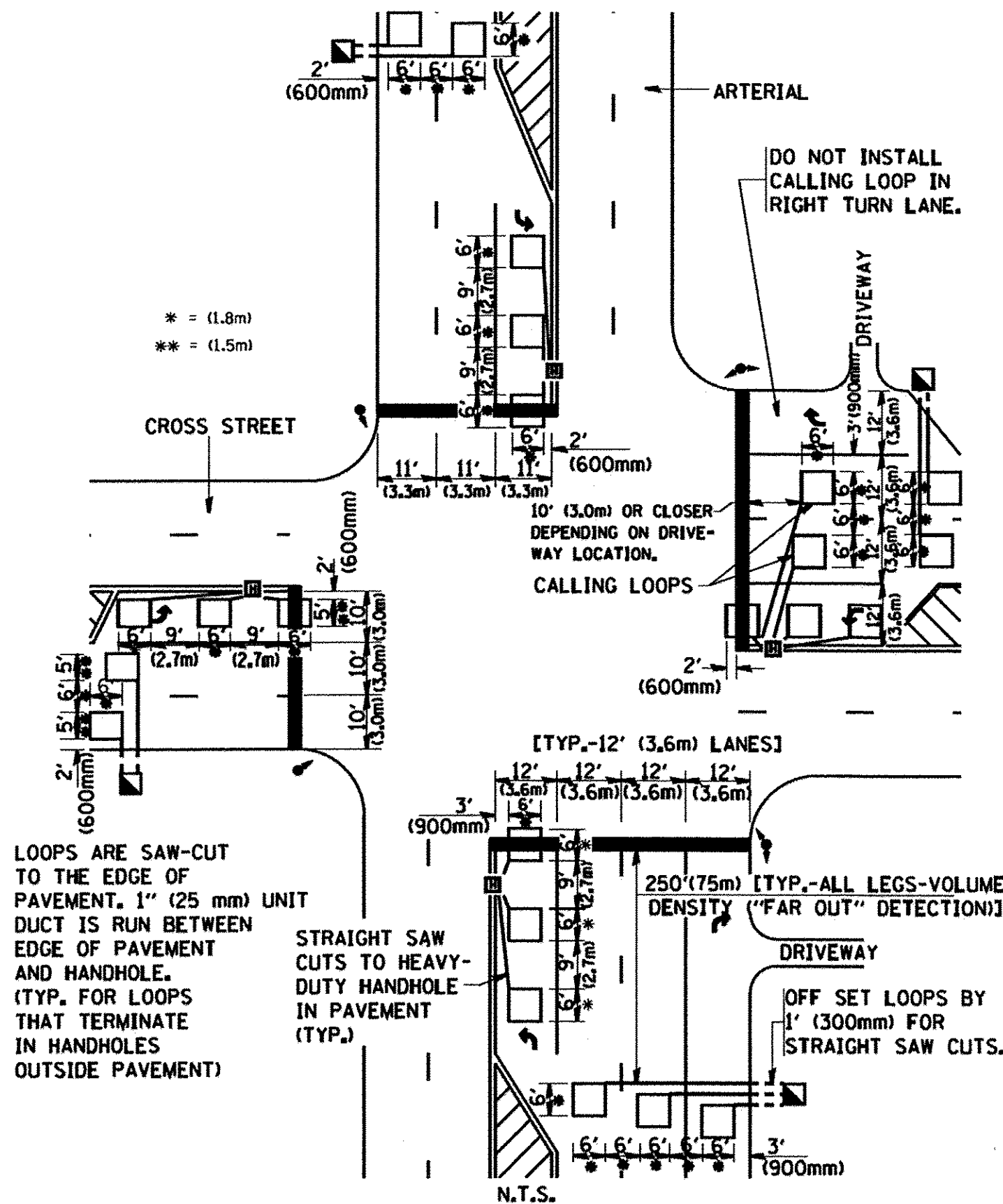
**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)



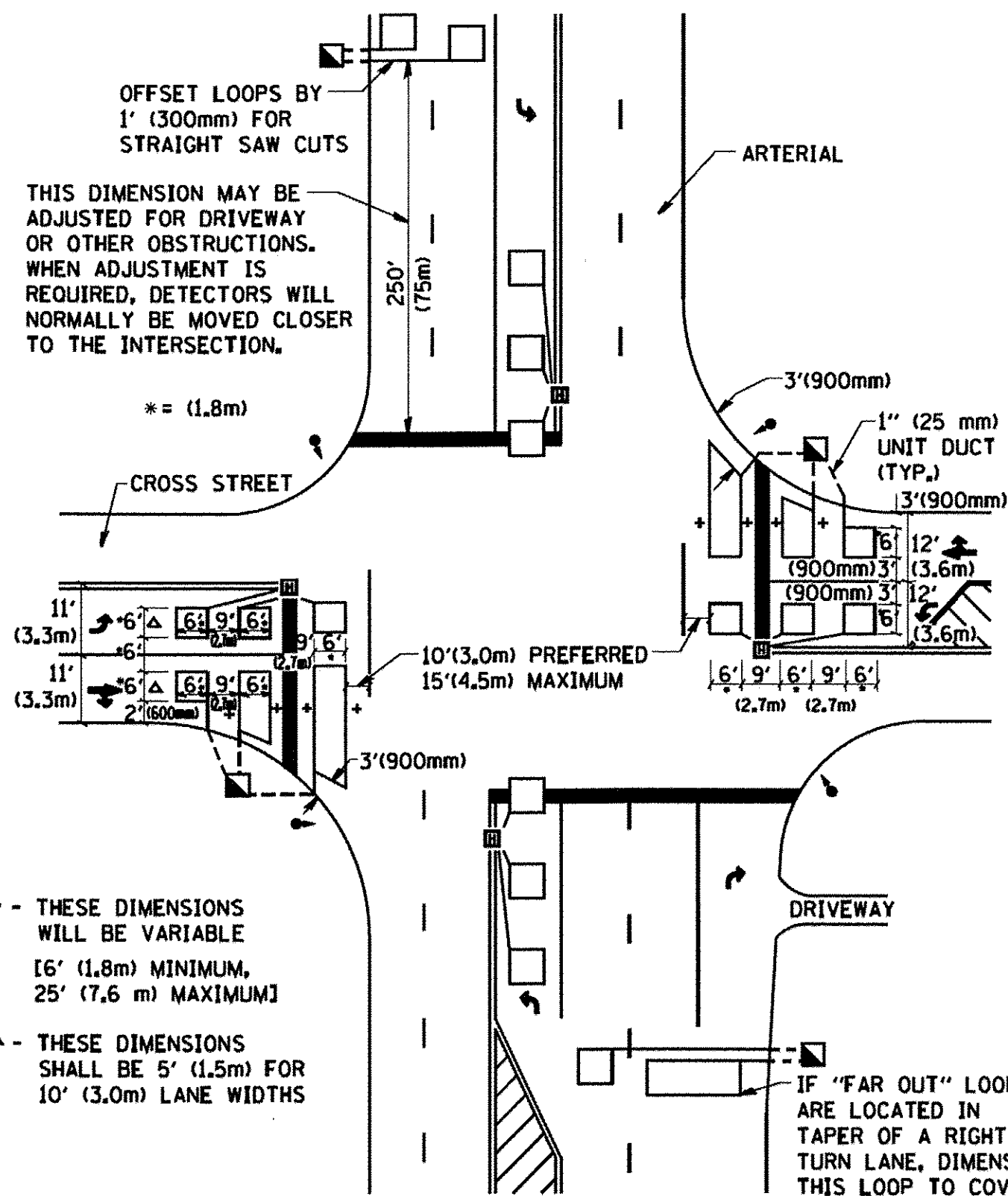
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1
N.T.S.

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



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

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

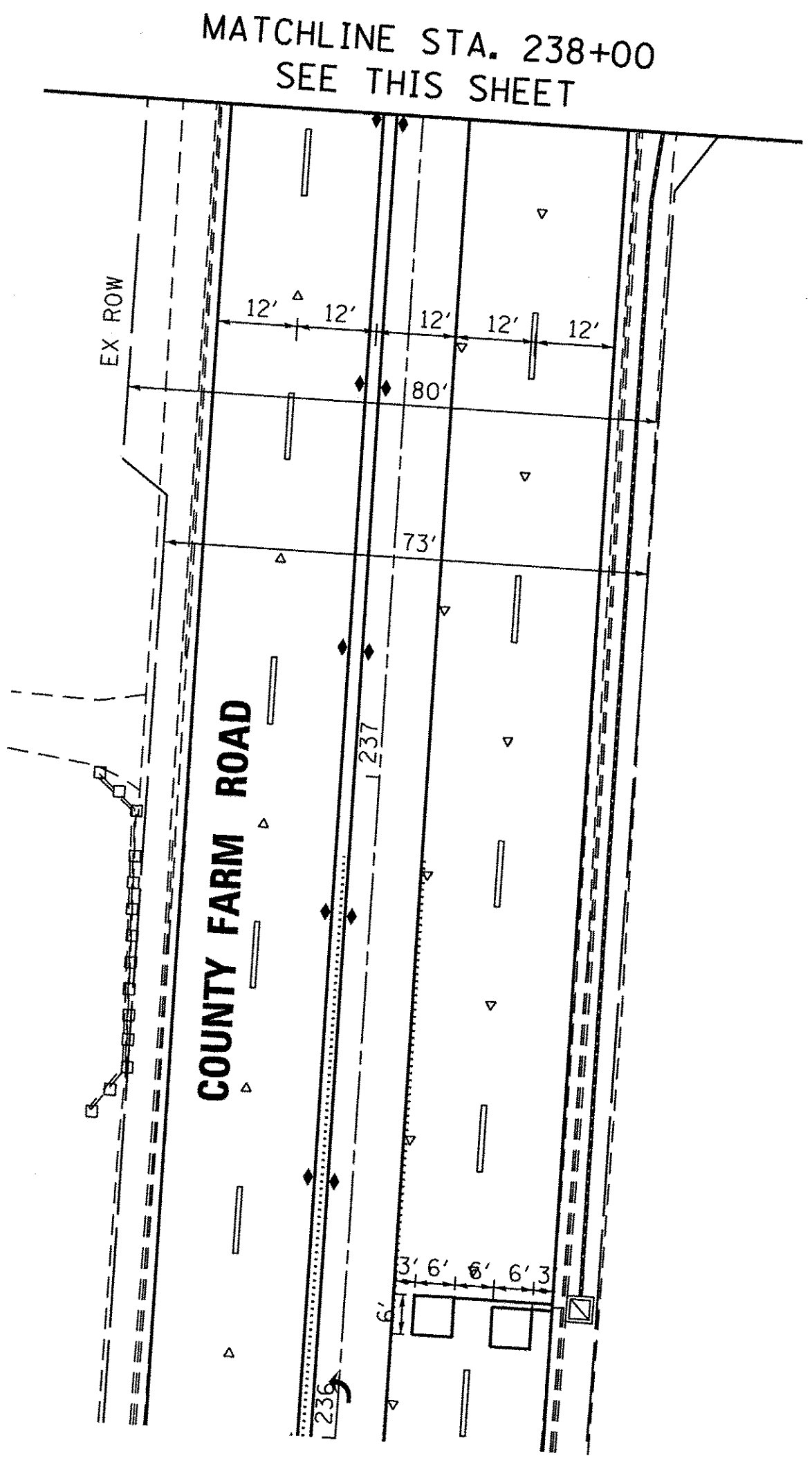
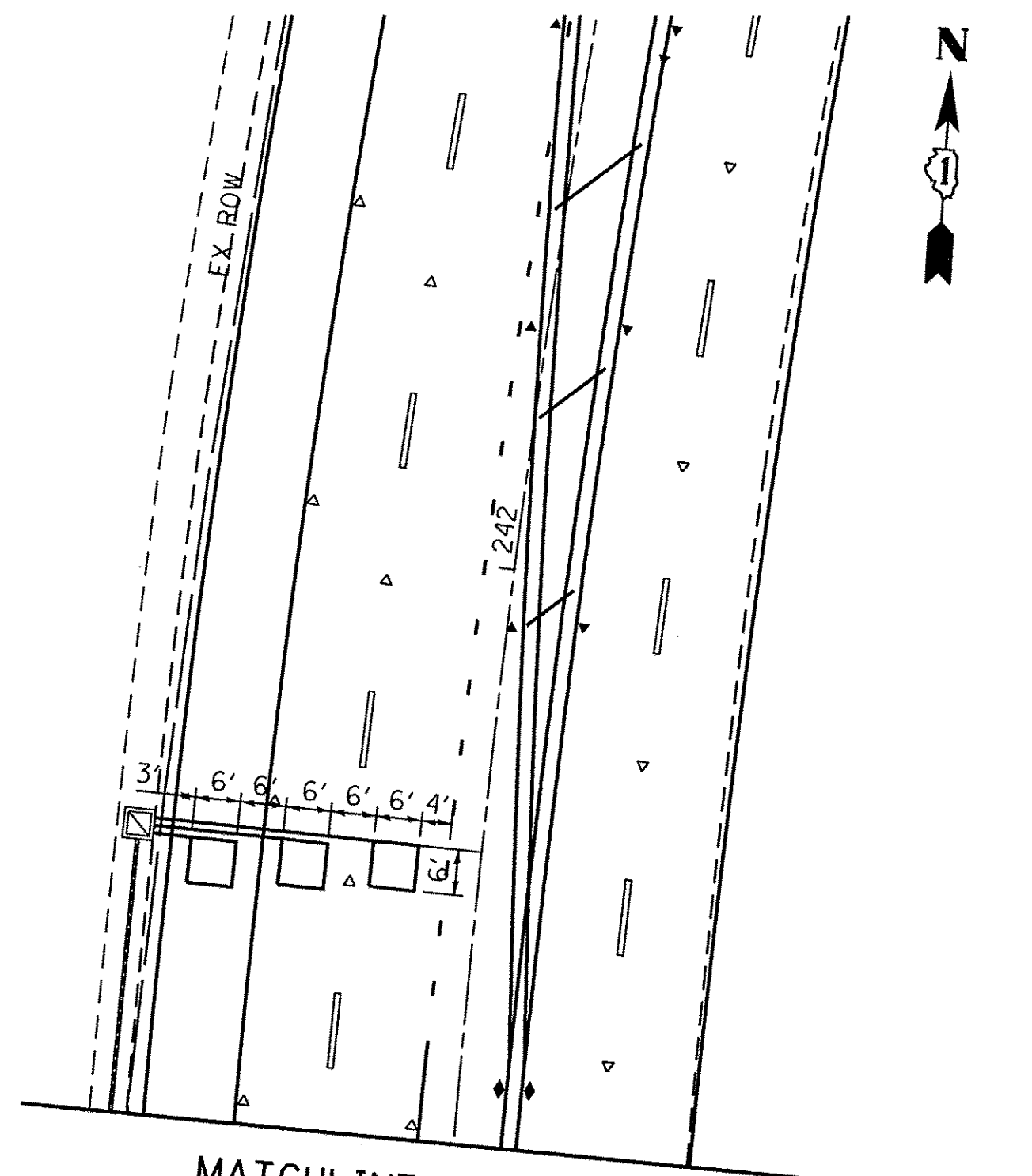
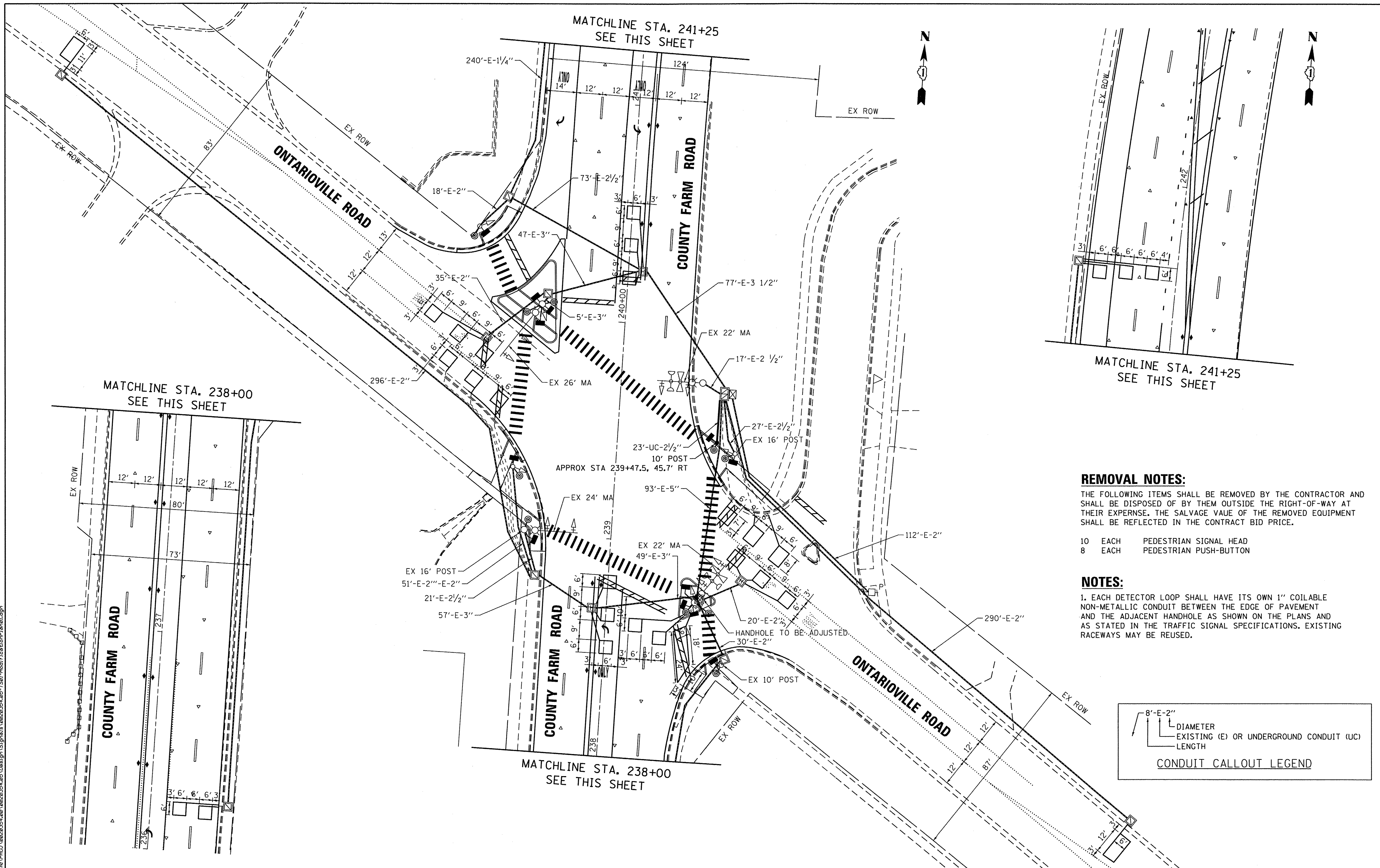
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

NOTE:

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

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

| | | | | | | | | |
|--|------------------------|-------------|-------------|---|--|-------------------------|-------------------------|---|
| FILE NAME = W:\distata\22x34\ts07.dgn | USER NAME = goglianobt | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING | | 362 FAP 362 AND FAP 361 | |
| PLOT SCALE = 50.0000' / IN. | CHECKED - R.K.F. | REVISIONS - | REVISIONS - | | F.A.P. R.T.E. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 |
| PLOT DATE = 1/4/2008 | DATE - | REVISIONS - | REVISIONS - | | TS-07 | | CONTRACT NO. 61D62 | |
| | | | | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |



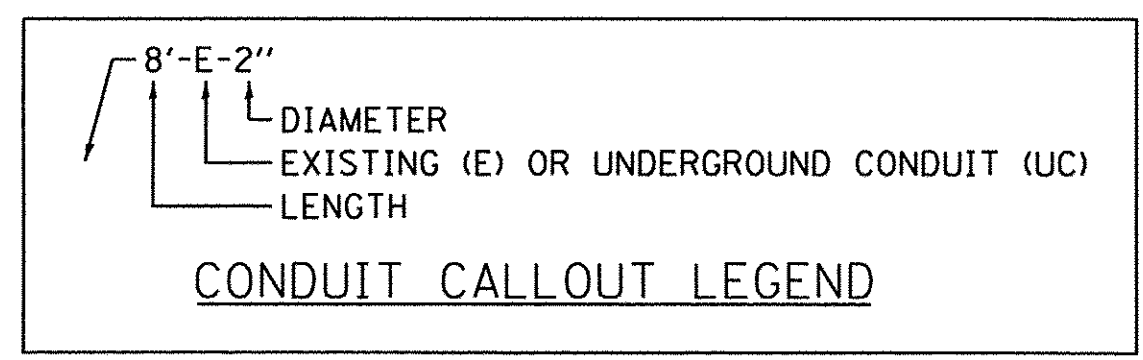
REMOVAL NOTES:

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

- 10 EACH PEDESTRIAN SIGNAL HEAD
- 8 EACH PEDESTRIAN PUSH-BUTTON

NOTES:

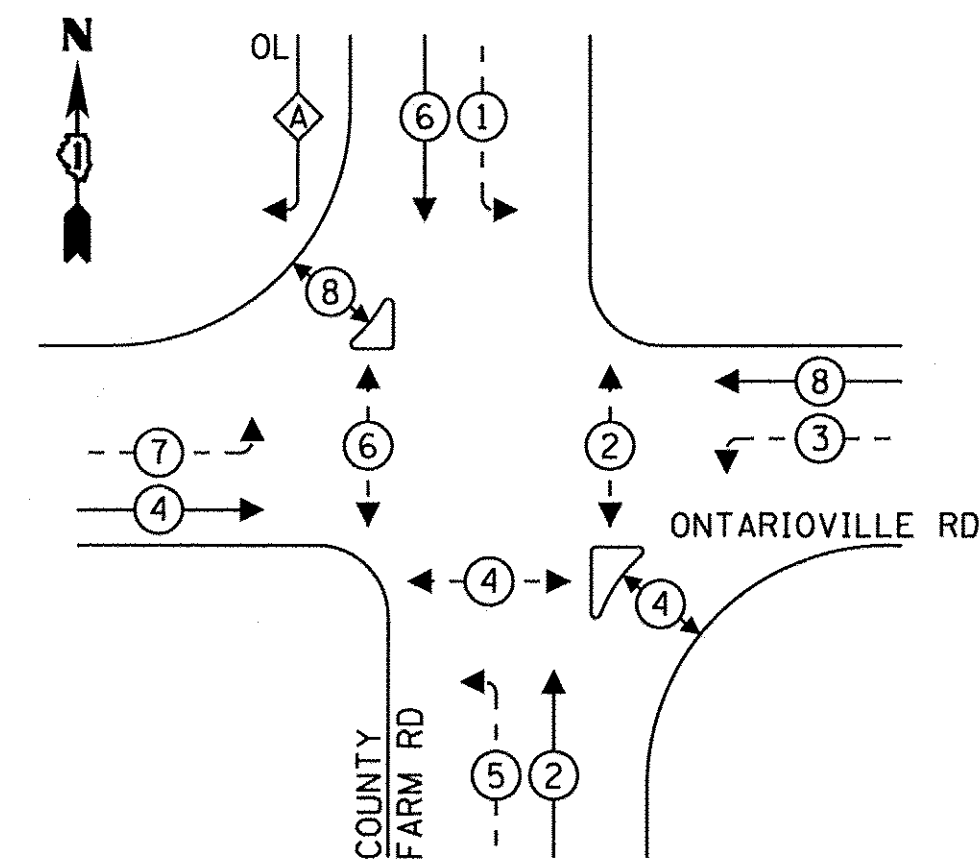
1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS. EXISTING RACEWAYS MAY BE REUSED.



DATE PLOTTED = 3/8/2017 4:51:38 PM
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| | | | | | | | |
|--|---|--|--|--|--|--|---------------------------|
| <p>ENGINEERING CONSULTANT CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.776.4209 Fax 773.776.4014 Email: clorba@clorba.com</p> | USER NAME = mdoboub PLOT SCALE = 40.0000' / 1" | DESIGNED - #DES.SIG DRAWN - #DRAWN.SIG CHECKED - #CHK.SIG DATE - JAN 2017 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | COUNTY FARM ROAD IMPROVEMENTS TRAFFIC SIGNAL MODIFICATION PLAN | FAP RTE. = 362 SECTION = 14-00179-31-SP COUNTY = DUPAGE TOTAL SHEETS = 99 SHEET NO. = 66 CONTRACT NO. = 61D62 | ILLINOIS FED. AID PROJECT |
| | PLOT DATE = 3/8/2017 | SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA. | | | | | |

EXISTING CONTROLLER SEQUENCE



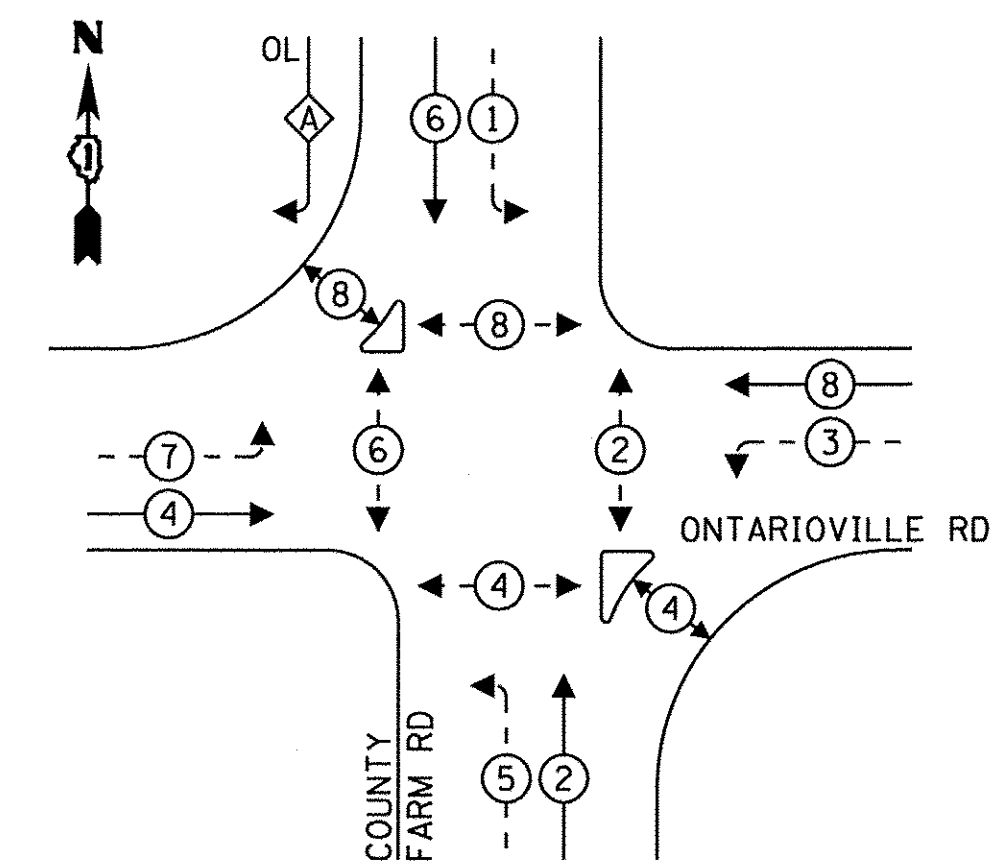
LEGEND:

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ ← PROTECTED/PERMITTED PHASE
- ← ⊙ ← PEDESTRIAN PHASE
- ← ⊙ ← OVERLAP
- ← ⊙ ← FREE FLOW

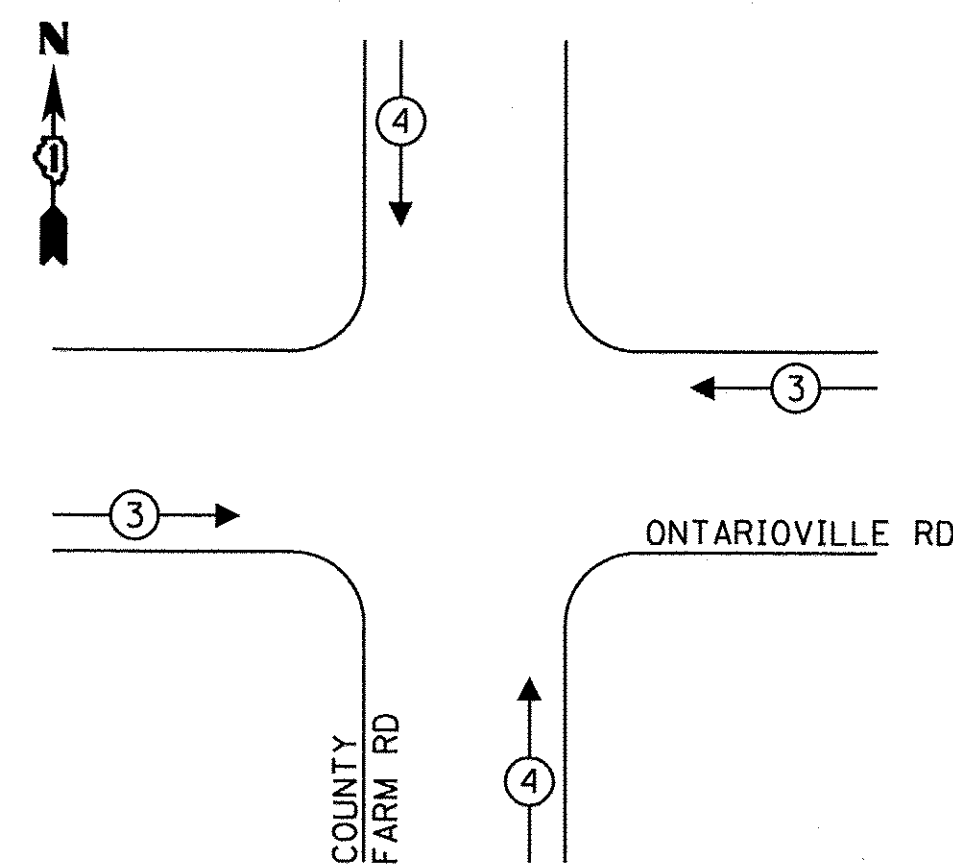
RIGHT TURN OVERLAP PHASE DESIGNATION:

| | | |
|----------------|------------------|-----------------|
| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
| A | 6 | 7 |

PROPOSED CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



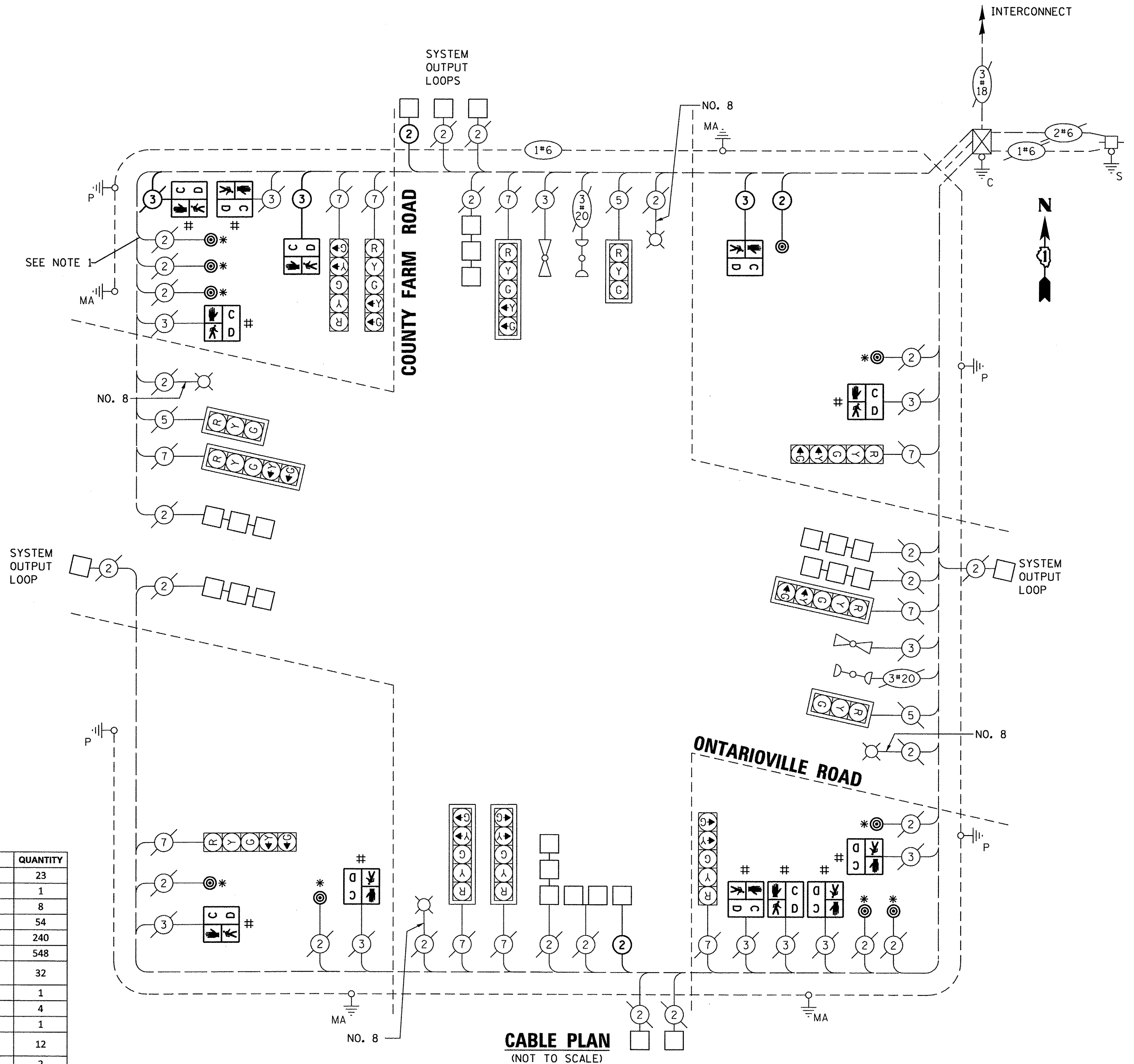
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

| TYPE | NO. OF LAMPS | WATTAGE | % OPERATION | TOTAL WATTAGE |
|------------------|--------------|---------|-------------|----------------|
| SIGNAL (RED) | 13 | 135 | 50 | 877.5 |
| (YELLOW) | 13 | 135 | 5 | 87.8 |
| (GREEN) | 13 | 135 | 45 | 789.8 |
| PERMISSIVE ARROW | 20 | 135 | 10 | 270 |
| PED. SIGNAL | 12 | 20 | 100 | 240 |
| CONTROLLER | 1 | 100 | 100 | 100.0 |
| UPS | - | 25 | 100 | - |
| VIDEO SYSTEM | - | 150 | 100 | - |
| BLANK-OUT SIGN | - | 25 | 5 | - |
| FLASHER | - | - | 50 | - |
| STREET NAME SIGN | - | 120 | 50 | - |
| LUMINAIRE | 4 | 480 | 50 | 960 |
| TOTAL = | | | | 2,461.1 |

ENERGY COSTS TO:
 DUPAGE COUNTY DIVISION OF TRANSPORTATION
 421 N. COUNTY FARM ROAD #2300
 WHEATON, IL 60187
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

| ITEM # | DESCRIPTION | UNIT | QUANTITY |
|----------|---|------|----------|
| 81028200 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 23 |
| 85000200 | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| 87300010 | GROUNDING EXISTING HANDHOLE FRAME AND COVER | EACH | 8 |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 54 |
| 87301225 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 240 |
| 87301305 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 548 |
| 87301900 | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 32 |
| 87502440 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT. | EACH | 1 |
| 87800100 | CONCRETE FOUNDATION, TYPE A | FOOT | 4 |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 1 |
| 88102717 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER | EACH | 12 |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 2 |
| 88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 911 |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 10 |
| 89502200 | MODIFY EXISTING CONTROLLER | EACH | 1 |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 1 |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |



CABLE PLAN
(NOT TO SCALE)

- * = REPLACE PEDESTRIAN PUSH-BUTTON
- # = REPLACE PEDESTRIAN SIGNAL HEAD

NOTES:
 1.) EXISTING BUTTON SHALL BE RECONFIGURED TO CALL REQUIRED PHASE PER PROPOSED CONTROLLER SEQUENCE DIAGRAM.

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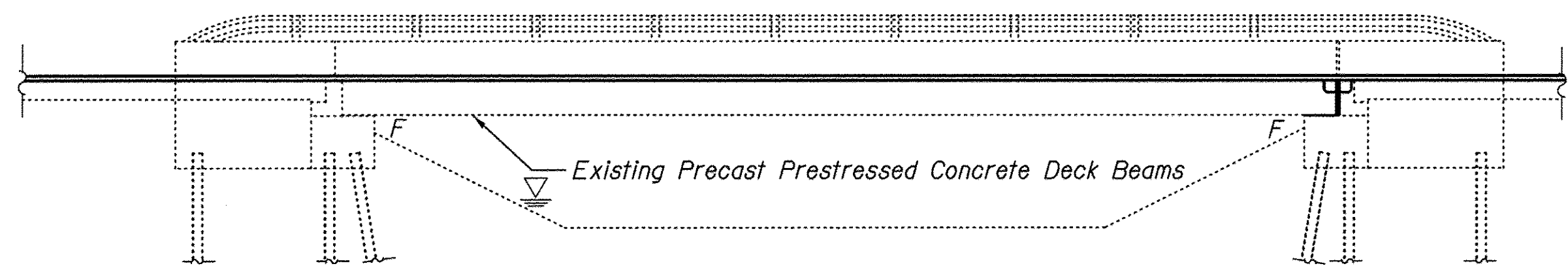
ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4009 Fax: 773.775.4014
 Email: chicago@clorba.com

| | | |
|------------------------------|-----------------|-----------|
| USER NAME = mdaboub | DESIGNED - | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | DRAWN - | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - | REVISED - |
| | DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY FARM ROAD IMPROVEMENTS
TRAFFIC SIGNAL CABLE PLAN

| | | | | |
|--------------------|------------------------|---------------|-----------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 67 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |



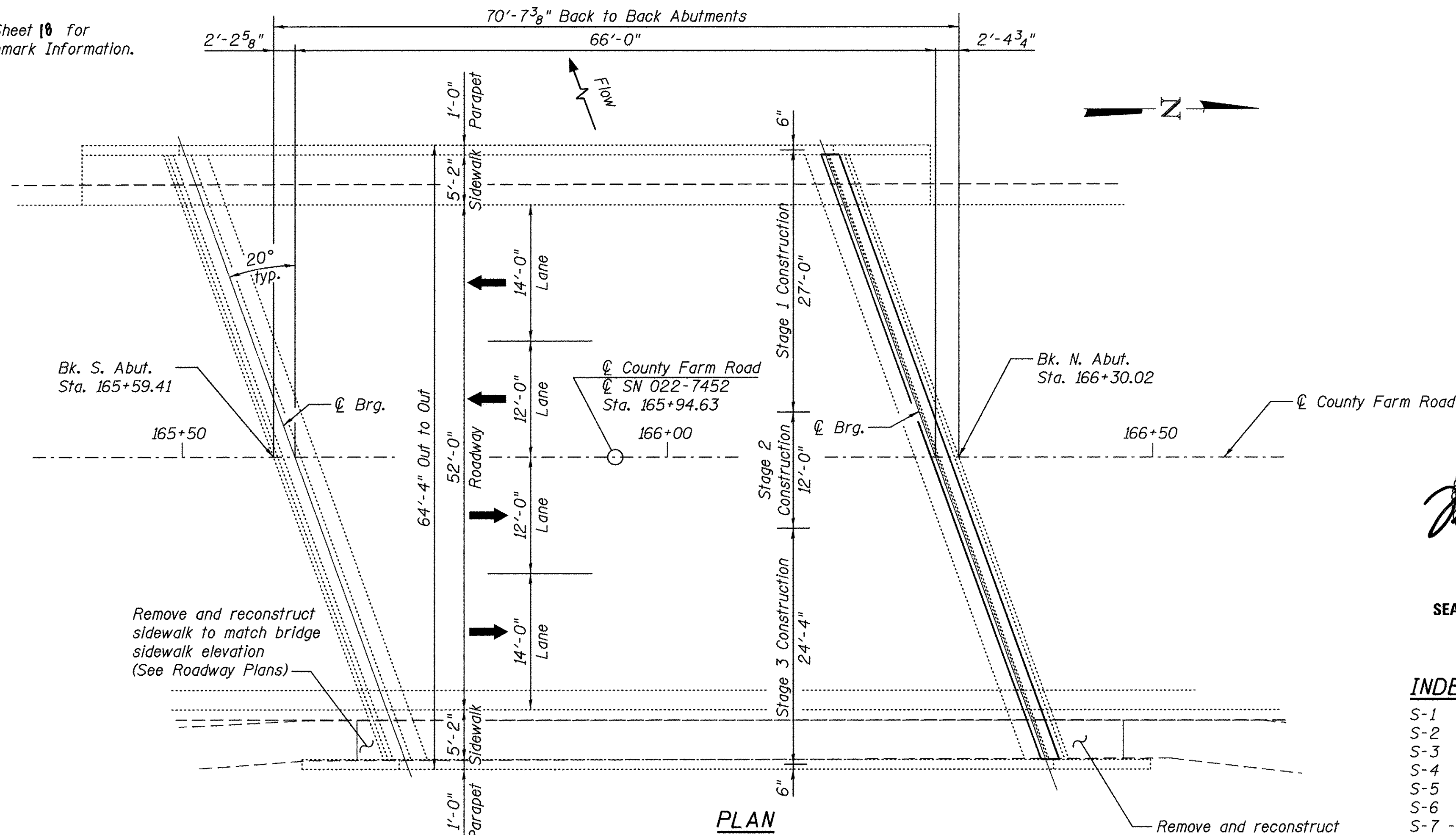
ELEVATION

EXISTING STRUCTURE

Bridge No. 022-7452; Built in 1983, four lane, Single Span Precast Prestressed Concrete Deck Beam superstructure on HP-Pile Stub abutments. 70'-7 3/8" Back to Back Abutments and 64'-4" Out to Out.

The road shall be closed in Stages.

See Sheet 10 for Benchmark Information.



PLAN

SCOPE OF WORK

1. Set up TC&P 701611 with barrier for Stage 1 work in the SB lanes of County Farm Road.
2. Remove existing HMA overlay, perform joint reconstruction, PPC deck beam repairs, parapet repairs, and place waterproofing membrane system and HMA wearing surface.
3. Set up TC&P 701606 with barrier for Stage 2 work in the median of County Farm Road.
4. Remove existing HMA overlay, perform joint reconstruction, PPC deck beam repairs, parapet repairs, and place waterproofing membrane system and HMA wearing surface.
5. Set up TC&P 701611 with barrier for Stage 3 work in the NB lanes of County Farm Road.
6. Remove existing HMA overlay, perform joint reconstruction, PPC deck beam repairs, parapet repairs, and place waterproofing membrane system and HMA wearing surface.
7. Remove TC&P.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

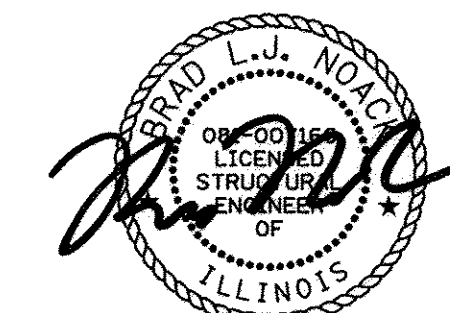
Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be preserved with caution, cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at Contractor's expense. Cost shall be Included with CONCRETE REMOVAL.

Steel for dowel rods shall be according to ASTM F 1554 Grade 55 (Grade 380) or ASTM A 706 Grade 60 (A 706M Grade 420). Dowel rods shall either be epoxy coated according to AASHTO ASTM A 775 (A 775M) or galvanized according to AASHTO M 111.

TOTAL BILL OF MATERIAL

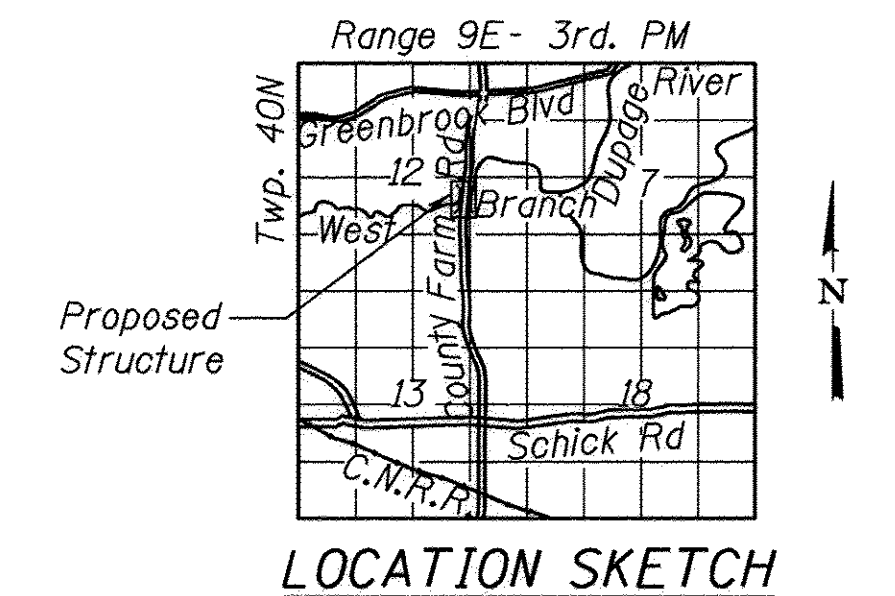
| ITEM | UNIT | SUPER | SUB | TOTAL |
|--|-------|-------|-----|-------|
| Concrete Removal | CU YD | 3.8 | 0.0 | 3.8 |
| Concrete Superstructure | CU YD | 4.2 | 0.0 | 4.2 |
| Reinforcement Bars, Epoxy Coated | POUND | 670 | 0.0 | 670 |
| Mechanical Splicers | EACH | 8 | 0.0 | 8 |
| Anchor Bolts, 1" | EACH | 32 | 0.0 | 32 |
| Waterproofing Membrane System | SQ YD | 402 | 0.0 | 402 |
| Portland Mortar Fairing Course | FT | 655 | 0.0 | 655 |
| Concrete Sealer | SQ FT | 31 | 0.0 | 31 |
| Epoxy Crack Injection | FT | 9 | 0.0 | 9 |
| Non-Shrink Grout | CU FT | 19.2 | 0.0 | 19.2 |
| Hot-Mix Asphalt Surface Removal (Deck) | SQ YD | 402 | 0.0 | 402 |
| Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches) | SQ FT | 31 | 0.0 | 31 |
| Deck Slab Repair (Partial) | SQ YD | 20 | 0.0 | 20 |
| Dowel Repair | EACH | 26 | 0.0 | 26 |
| Grout Repair | FOOT | 56 | 0.0 | 56 |
| Keyway Repair | FOOT | 655 | 0.0 | 655 |



DATE: 1/24/2017
SEAL EXPIRES: 11/30/2018
SHEETS: 68-82

INDEX OF SHEETS

- S-1 General Plan and Elevation
- S-2 Stage Construction Details
- S-3 Superstructure (Plan and Cross Section)
- S-4 Expansion Joint Removal Details
- S-5 Parapet Repairs
- S-6 Bar Splicer Assembly and Mechanical Splicer Details
- S-7 - S-15 Existing Plans



DESIGN STRESSES

FIELD UNITS

| EXISTING CONSTRUCTION | PROPOSED CONSTRUCTION |
|------------------------------------|------------------------------------|
| $f'_c = 3,500$ psi | $f'_c = 3,500$ psi |
| $f_y = 60,000$ psi (reinforcement) | $f_y = 60,000$ psi (reinforcement) |

PRECAST PRESTRESSED UNITS

| EXISTING CONSTRUCTION |
|--|
| $f'_c = 5,000$ psi |
| $f'_{ci} = 4,200$ psi |
| $f'_s = 270,000$ psi (1/2" ϕ low lax. strands) |
| $f'_{sl} = 189,000$ psi (1/2" ϕ low lax. strands) |

**GENERAL PLAN AND ELEVATION
COUNTY FARM ROAD OVER WEST
BRANCH DUPAGE RIVER
FAP 0362-SECTION 14-00179-31-SP
DUPAGE COUNTY
STATION 165+9463
STRUCTURE NO. 022-7452**

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LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

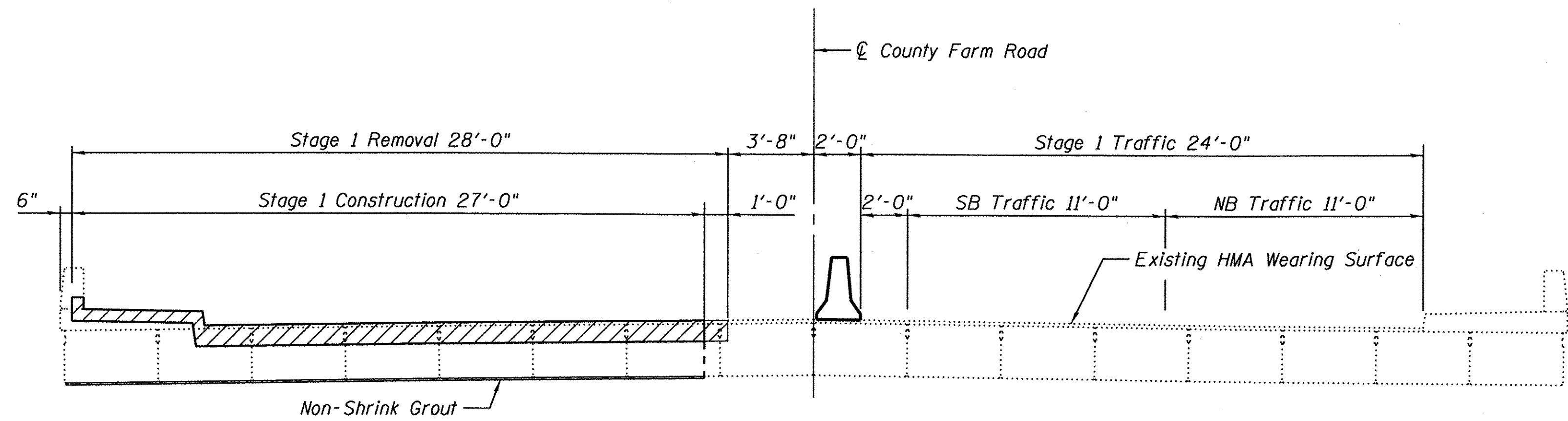
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| FILE NAME = | CHECKED - RH | REVISED - |
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| PLOT DATE = | CHECKED - RH | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

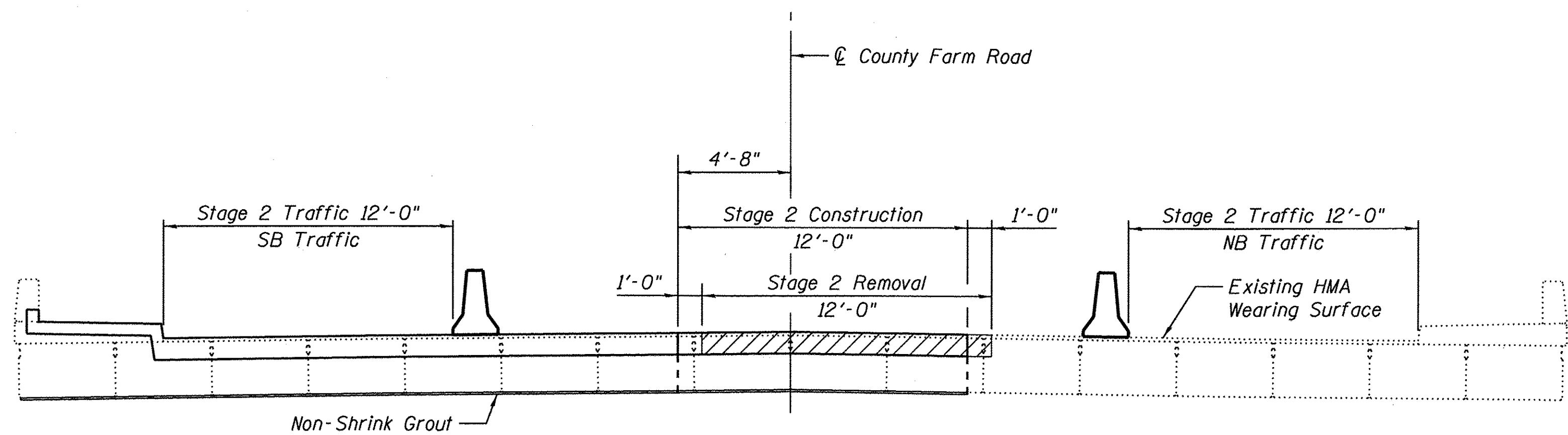
SHEET NO. S-1 OF 15 SHEETS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|--------|--------------|-----------|
| 362 | 14-00179-31-SP | DuPage | 99 | 68 |

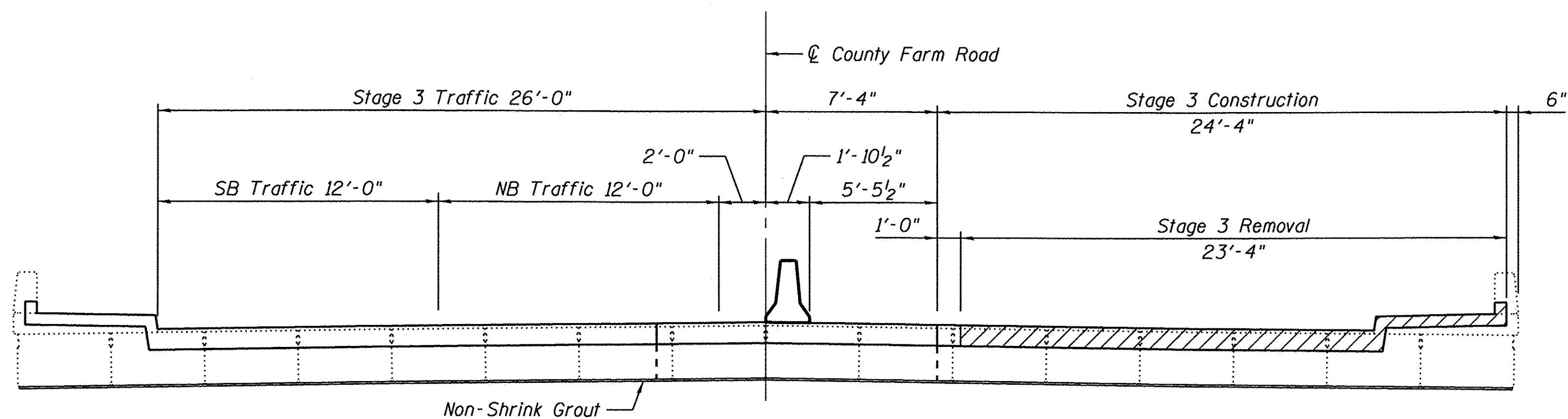
CONTRACT NO. 61D62
ILLINOIS FED. AID PROJECT



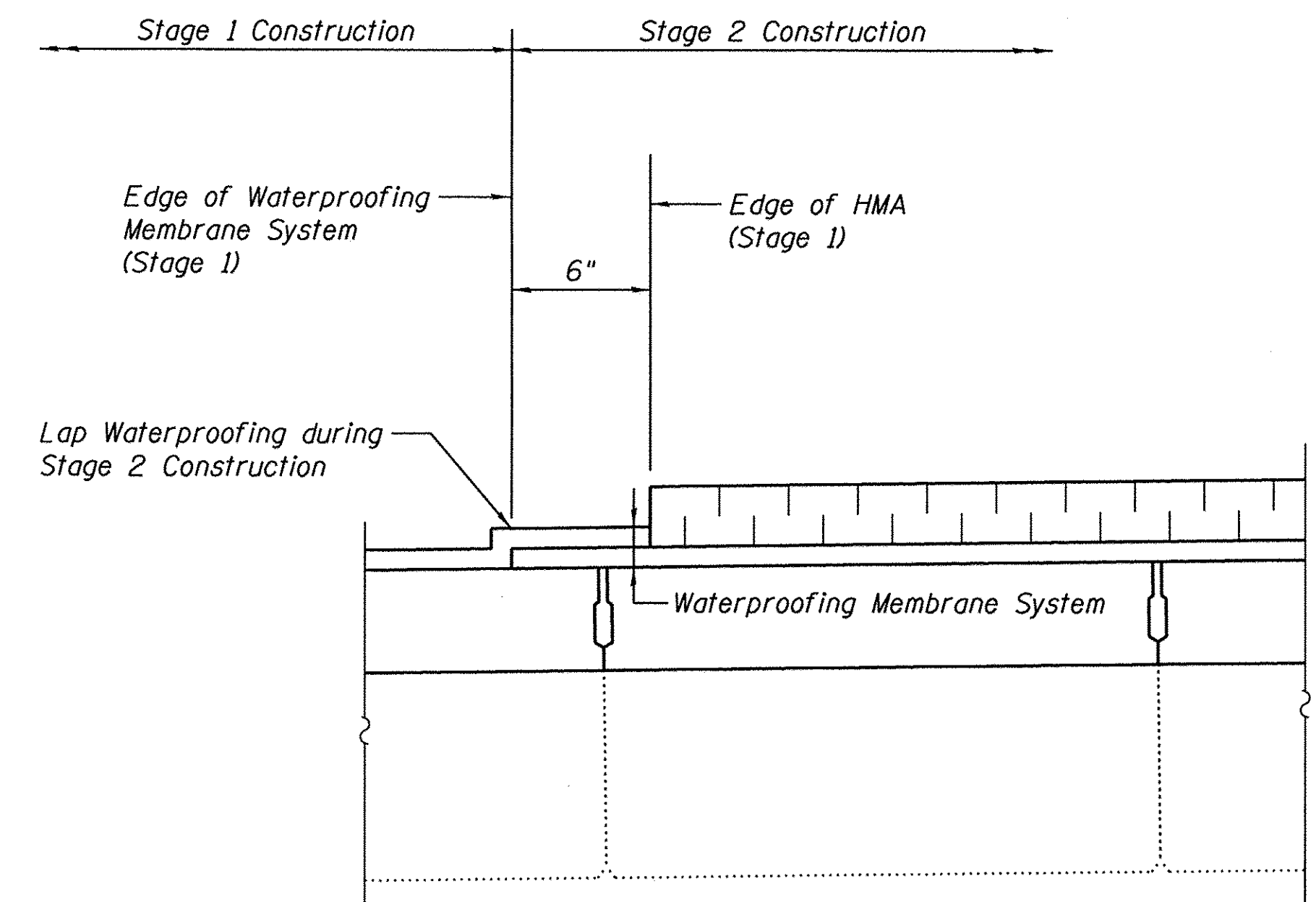
STAGE 1 CROSS SECTION AT N. ABUTMENT
(Looking North)



STAGE 2 CROSS SECTION AT N. ABUTMENT
(Looking North)

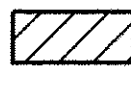


STAGE 3 CROSS SECTION AT N. ABUTMENT
(Looking North)



WATERPROOFING TREATMENT AT STAGE CONSTRUCTION (TYPICAL)

LEGEND

 - Limits of partial removal and reconstruction of bridge expansion joint, deck beams, sidewalk and parapet

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LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

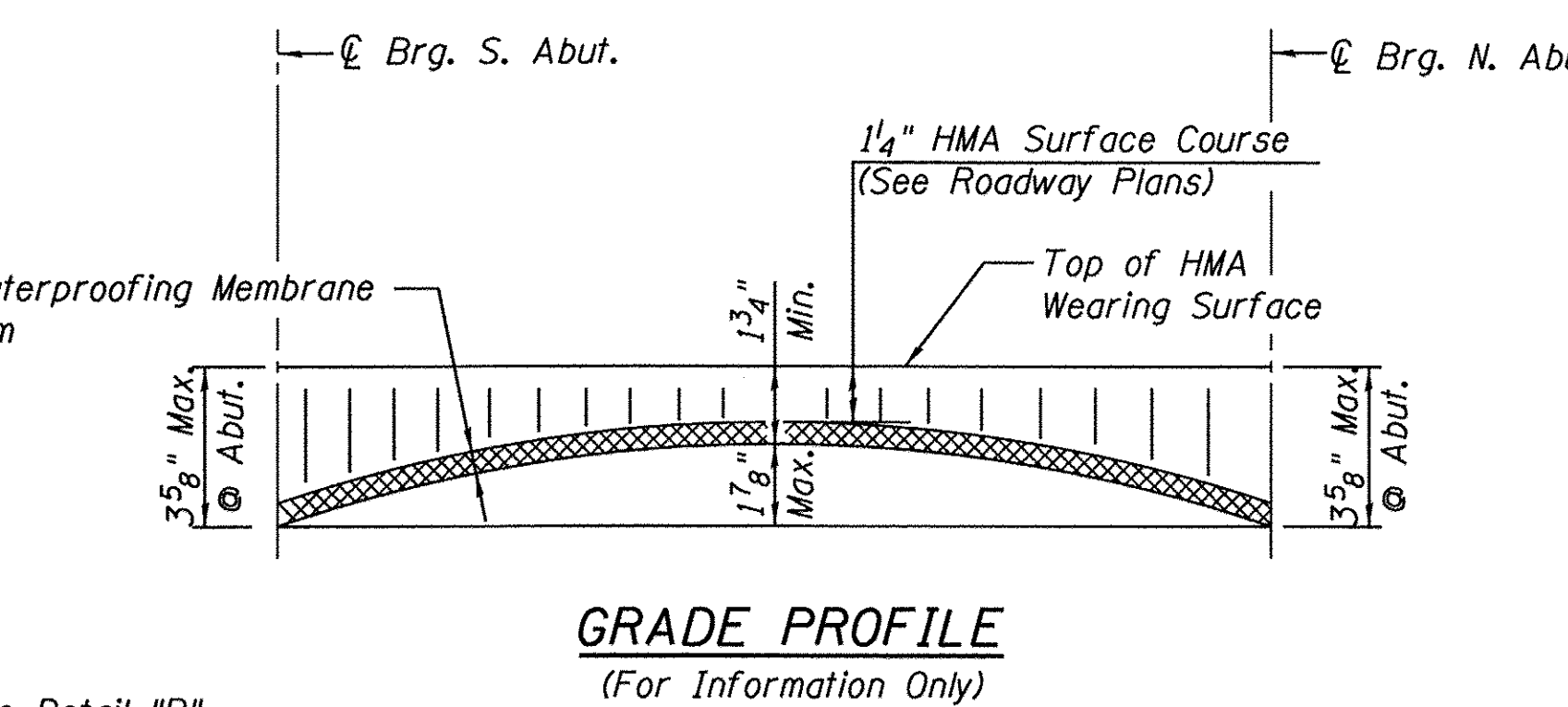
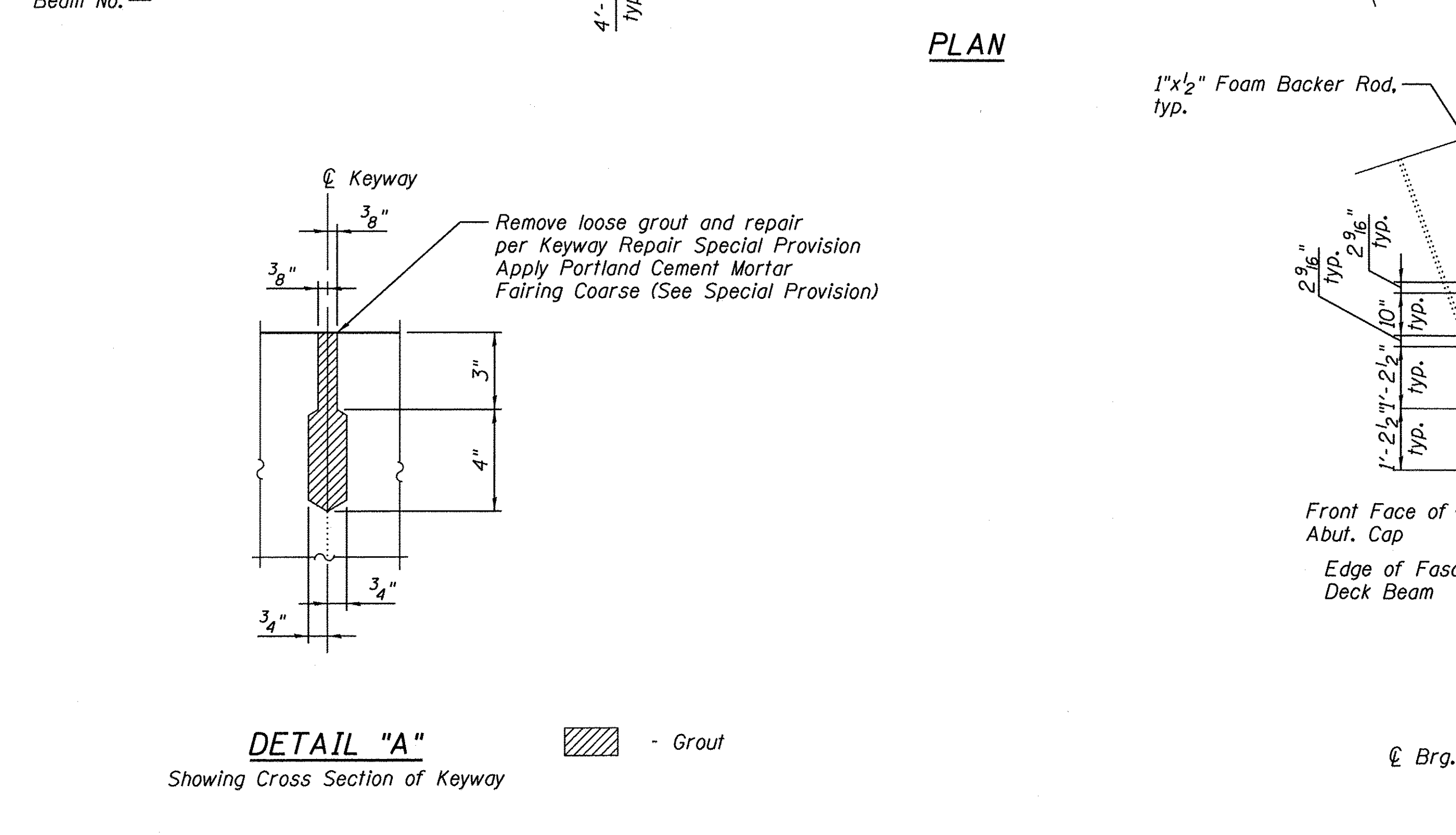
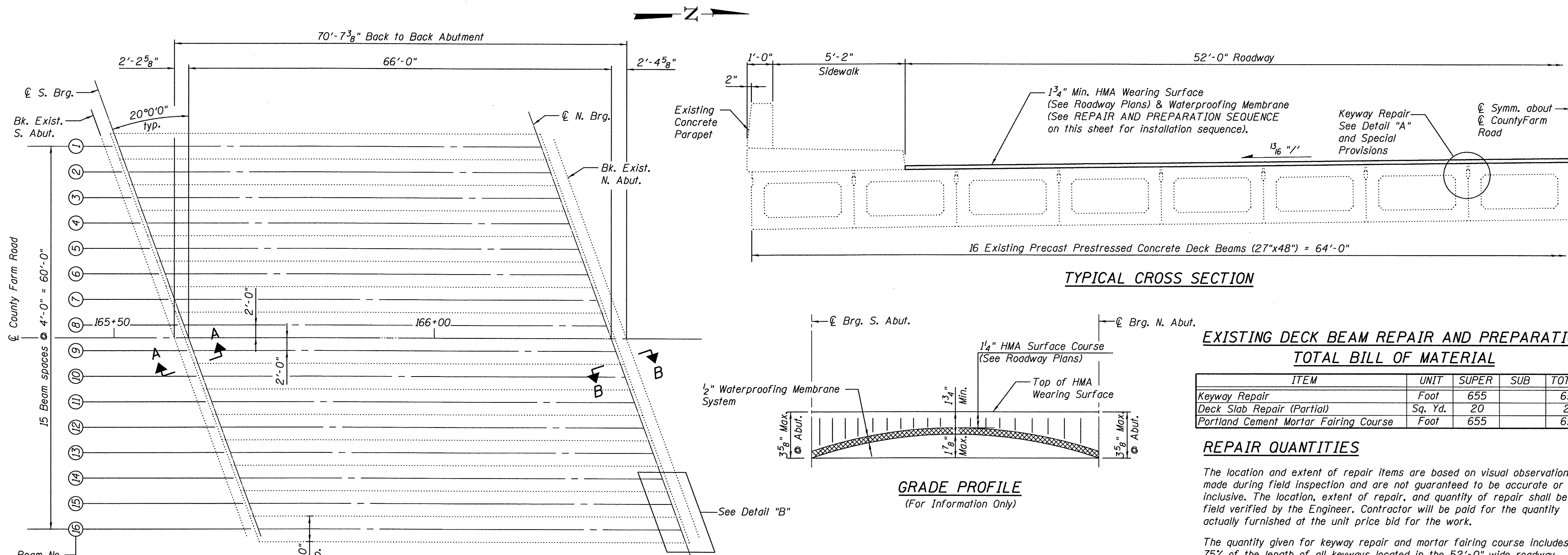
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| PLOT DATE = | CHECKED - RH | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 022-7452**

SHEET NO. 5-2 OF 15 SHEETS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 362 | 14-20179-31-SP | DUPAGE | 99 | 69 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |



**EXISTING DECK BEAM REPAIR AND PREPARATION
TOTAL BILL OF MATERIAL**

| ITEM | UNIT | SUPER | SUB | TOTAL |
|---------------------------------------|---------|-------|-----|-------|
| Keyway Repair | Foot | 655 | | 655 |
| Deck Slab Repair (Partial) | Sq. Yd. | 20 | | 20 |
| Portland Cement Mortar Fairing Course | Foot | 655 | | 655 |

REPAIR QUANTITIES

The location and extent of repair items are based on visual observation made during field inspection and are not guaranteed to be accurate or all inclusive. The location, extent of repair, and quantity of repair shall be field verified by the Engineer. Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The quantity given for keyway repair and mortar fairing course includes 75% of the length of all keyways located in the 52'-0" wide roadway. The actual keyway repair and mortar fairing course locations shall be determined by the Engineer after removal of the existing wearing surface.

The quantity given for dowel repair includes each existing dowel rod located in the 52'-0" wide roadway.

The quantity given for grout repair includes full length of S. Abutment joint located in the 52'-0" wide roadway.

The quantity given for deck slab repair (partial) includes 5% of the surface area of existing PPC deck beams located in 52'-0" wide roadway.

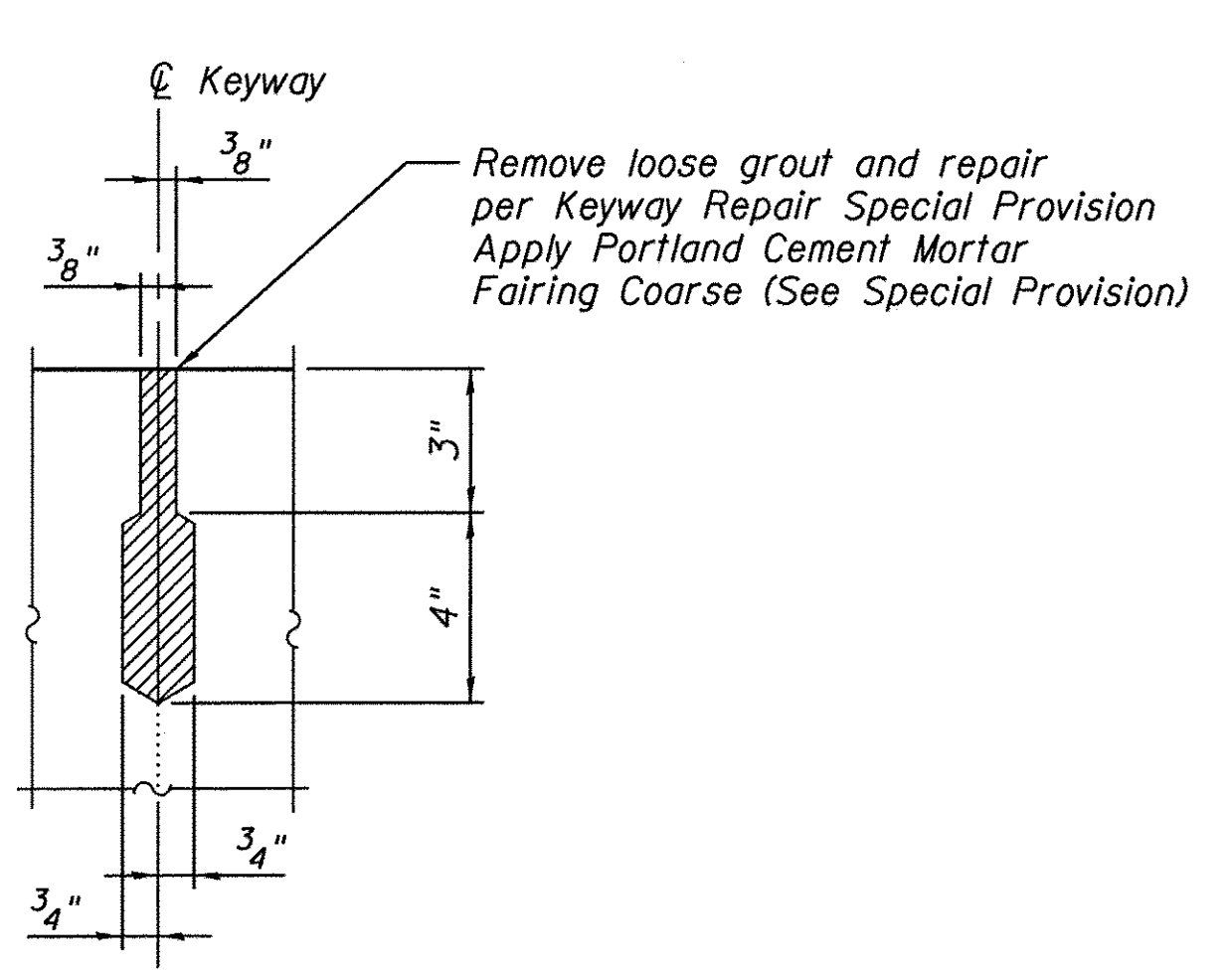
REPAIR AND PREPARATION SEQUENCE

Existing PPC Deck Beam repair and surface preparation:

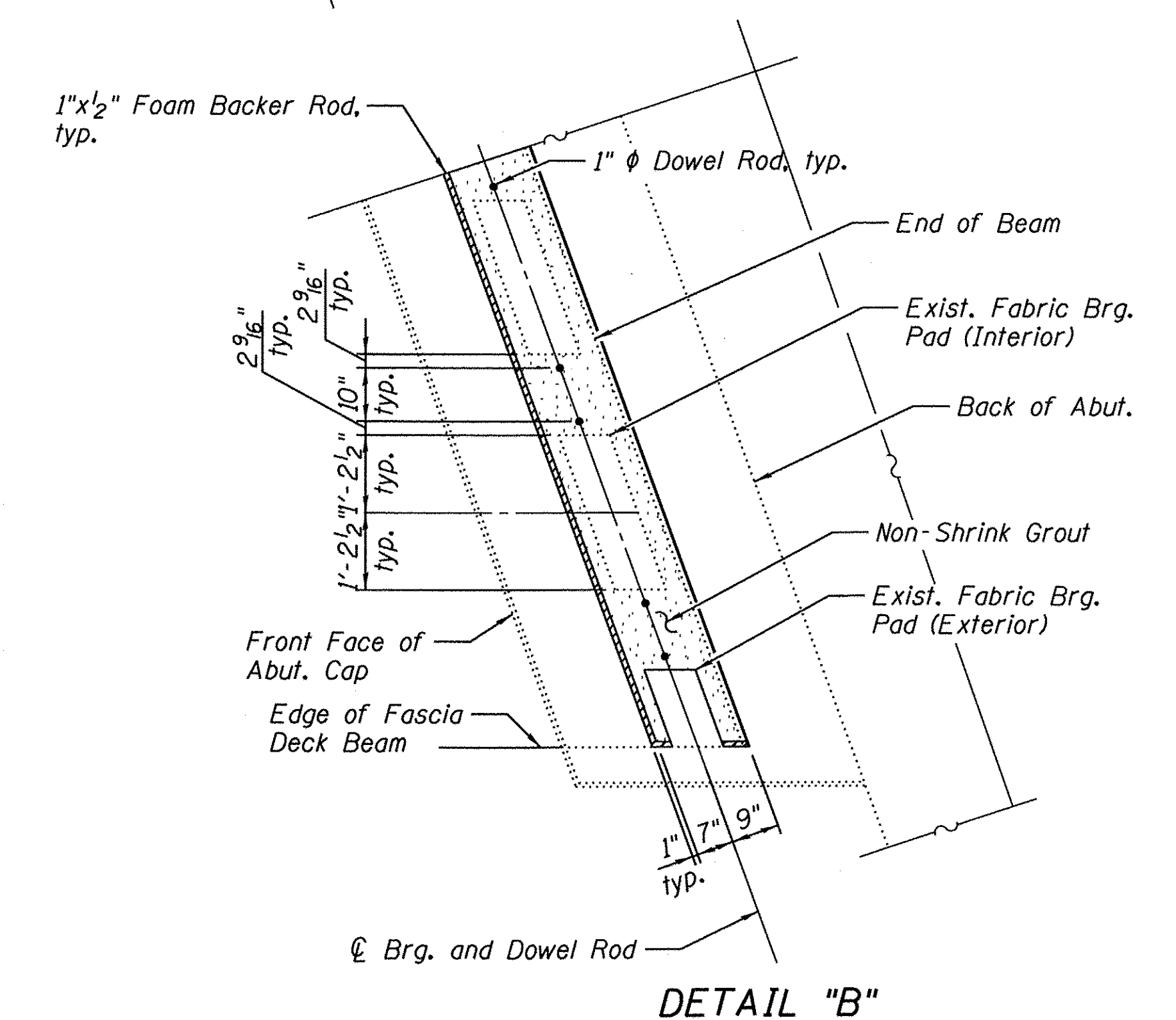
1. Remove existing HMA Wearing Surface and existing waterproofing membrane system.
2. Sand blast top surface.
3. Perform keyway repair, Grout repair, Dowel repair, and Deck Slab repair (partial) and apply Portland Cement Mortar Fairing Course.
4. Complete North Abutment expansion joint conversion to fixed joint.
5. Apply Waterproofing Membrane System.
6. Install HMA Wearing Surface (See Roadway Plans).

NOTE

See Section A-A and Section B-B on Sheet S-4.

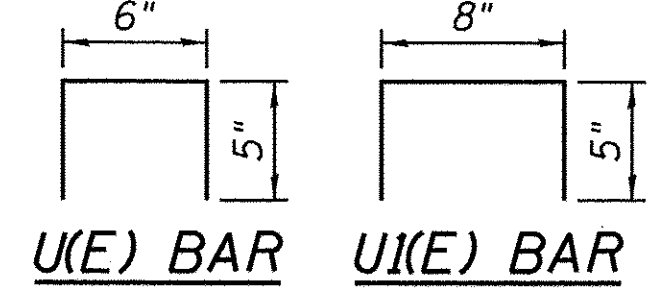
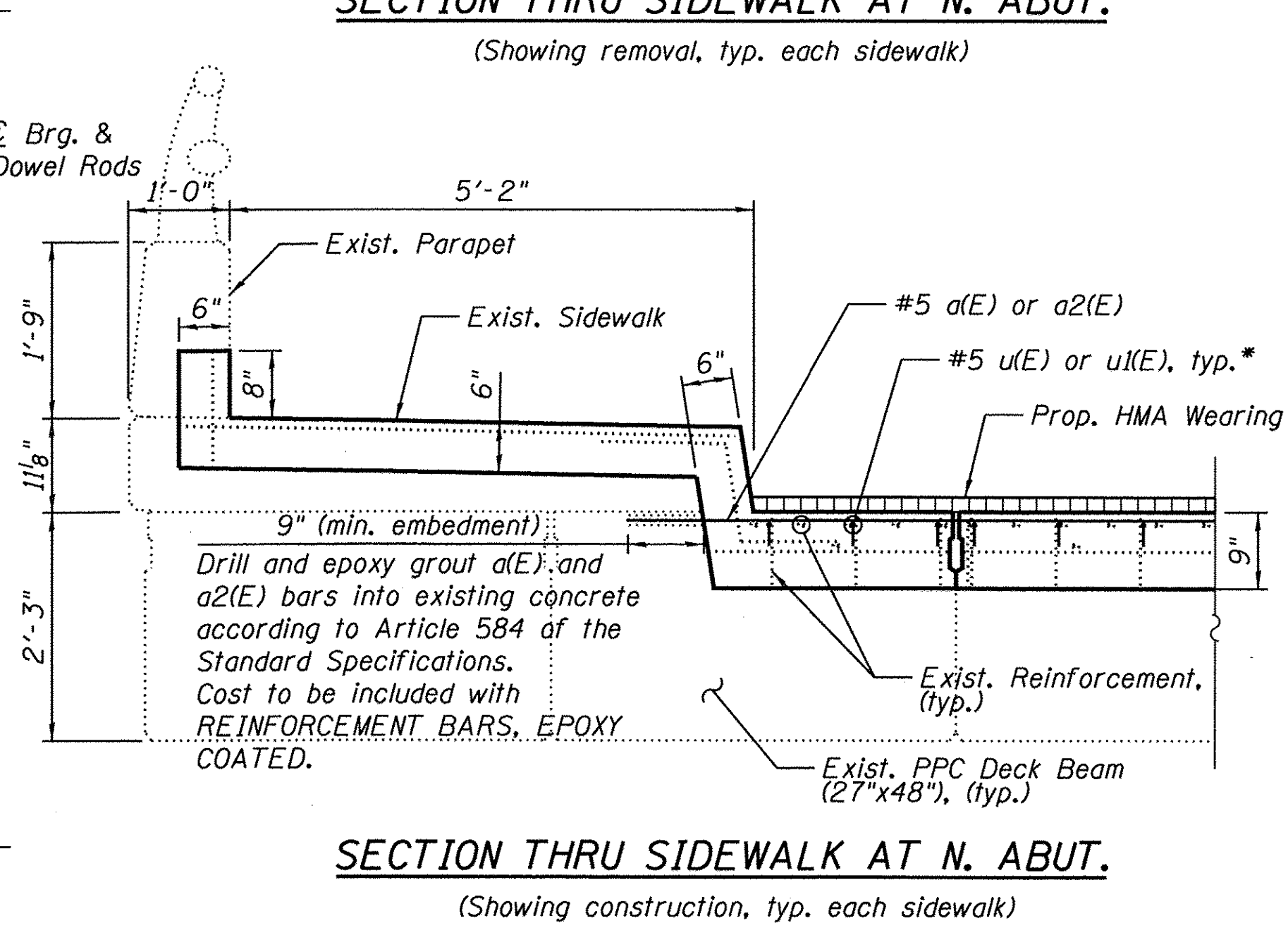
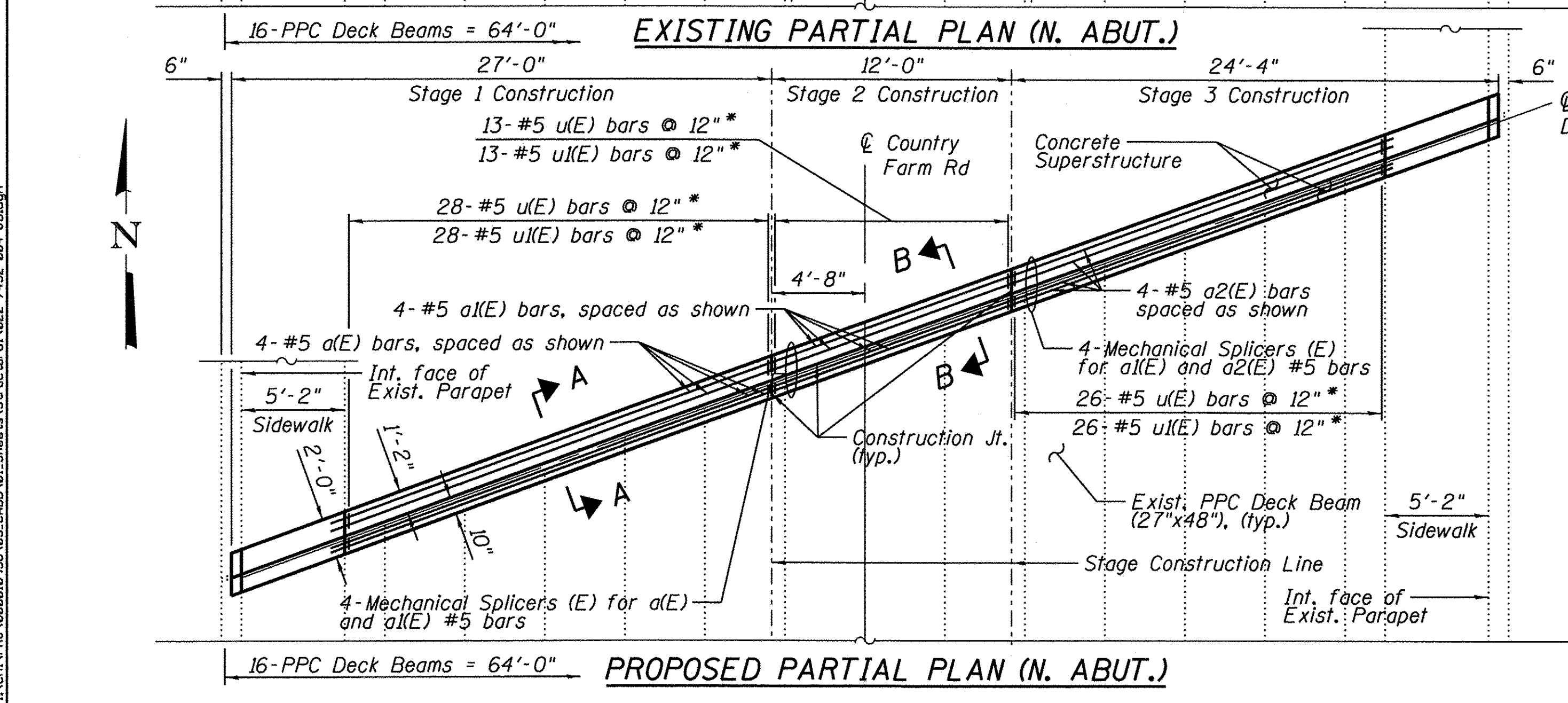
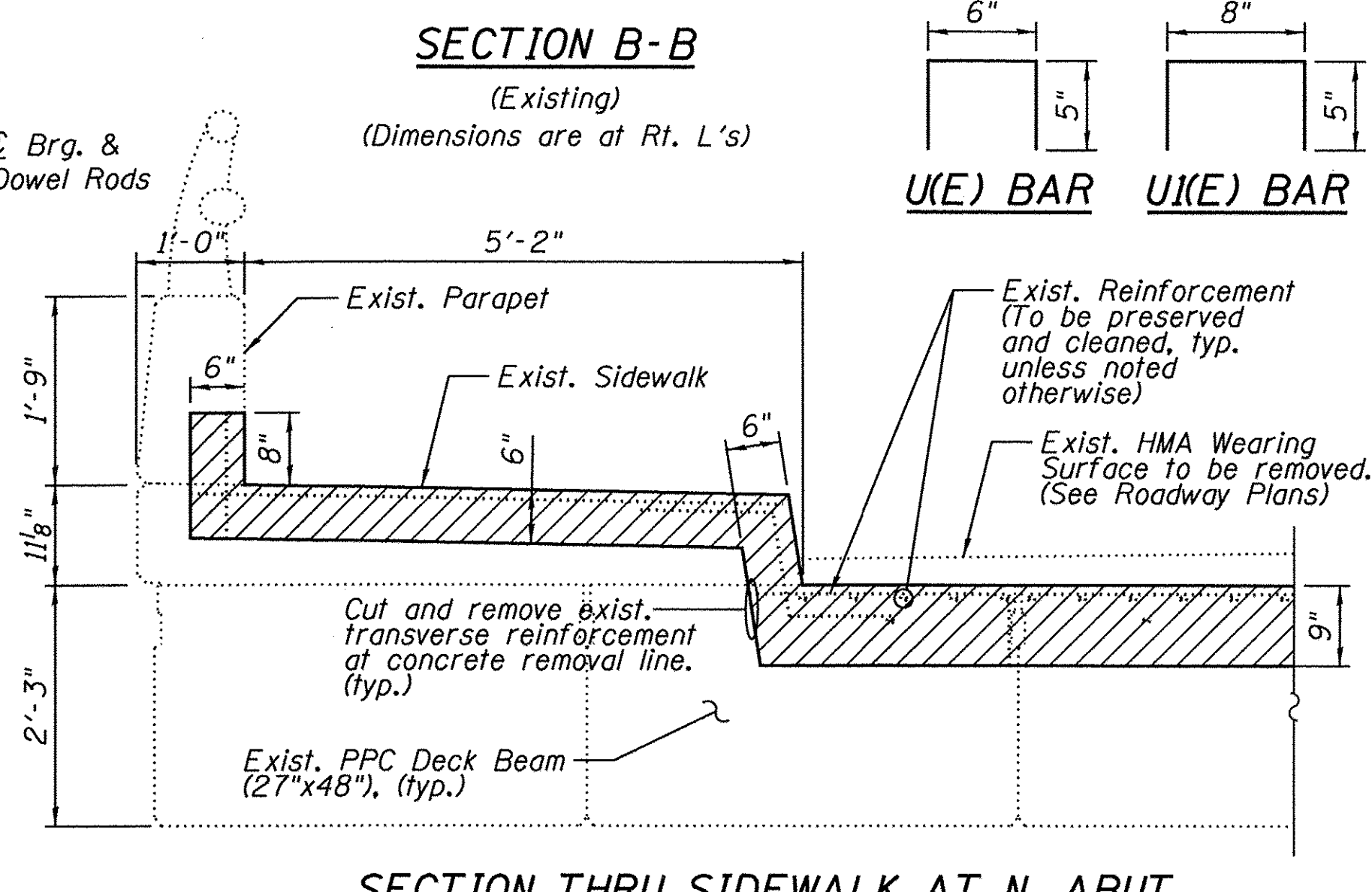
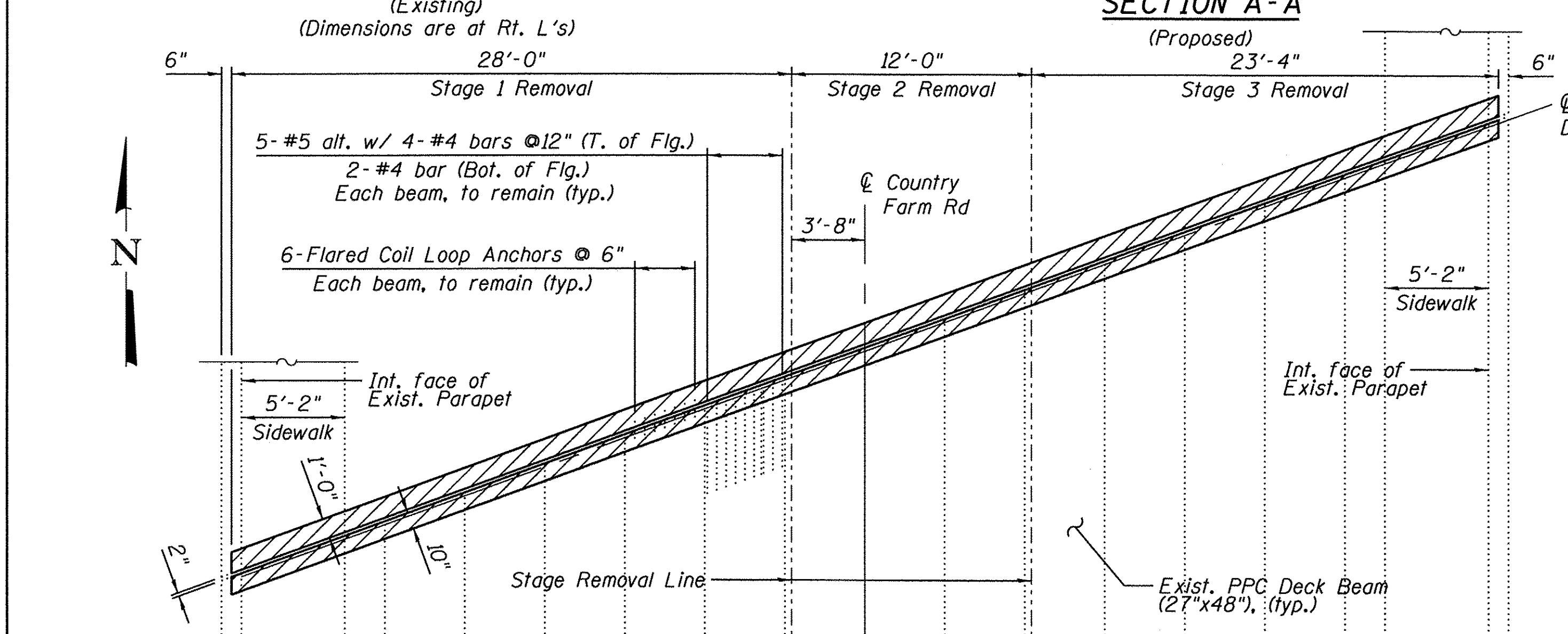
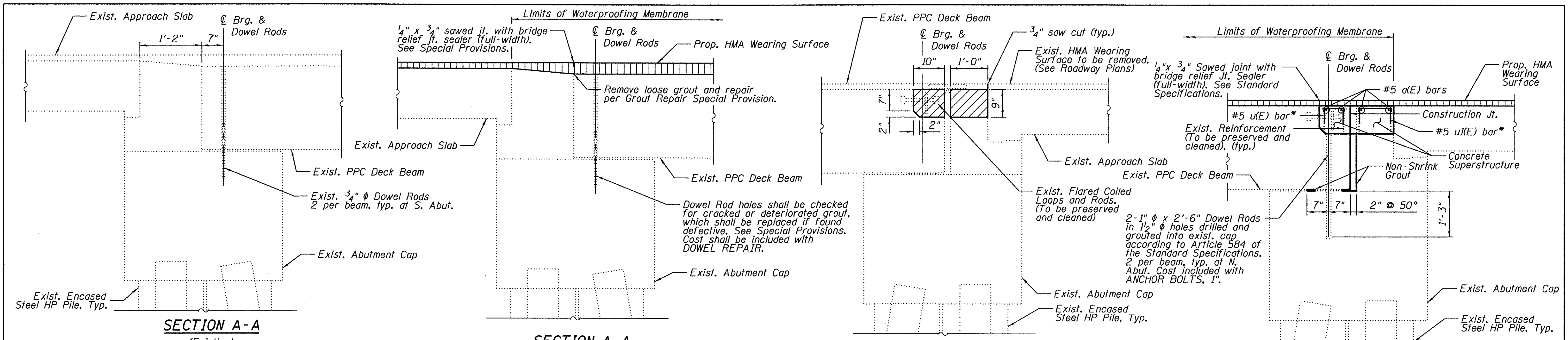


DETAIL "A"
Showing Cross Section of Keyway



DETAIL "B"

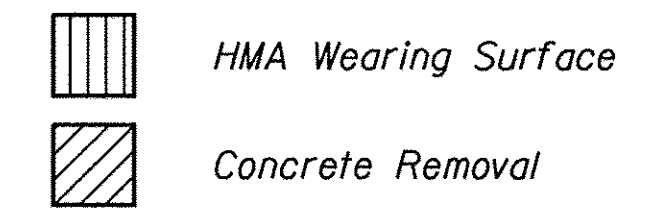
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BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|---------|--------|-------|
| a(E) | 4 | #5 | 23'-3" | — |
| a1(E) | 4 | #5 | 12'-9" | — |
| a2(E) | 4 | #5 | 20'-5" | — |
| u(E) | 61 | #5 | 1'-4" | ⌊ |
| u1(E) | 61 | #5 | 1'-6" | ⌊ |
| Anchor Bolts, 1" | | Each | 32 | |
| Concrete Removal | | Cu. Yd. | 3.8 | |
| Concrete Superstructure | | Cu. Yd. | 4.2 | |
| Dowel Repair | | Each | 26 | |
| Grout Repair | | Foot | 56 | |
| Non-Shrink Grout | | Cu. Ft. | 19.2 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 670 | |

LEGEND



NOTES

- All dimensions shall be verified in the field by the Contractor prior to Concrete Removal.
 - Existing reinforcement within Concrete Removal limits shall be preserved with caution, cleaned and incorporated into the new construction. Cost included with CONCRETE REMOVAL.
- * Lap bar with existing vertical #5 bar. Actual quantity used shall be adjusted as needed to match existing reinforcement.

LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

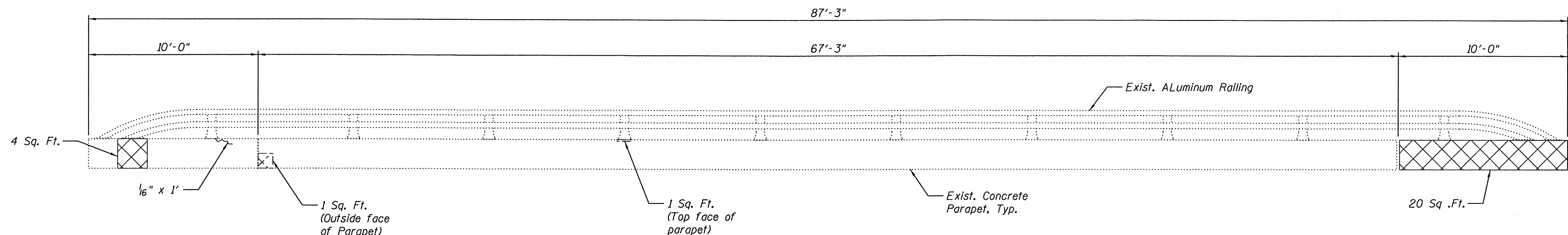
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| FILE NAME = | CHECKED - RH | REVISED - |
| PLOT SCALE = | DRAWN - MWM | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - BJN | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT REMOVAL DETAILS
STRUCTURE NO. 022-7452**

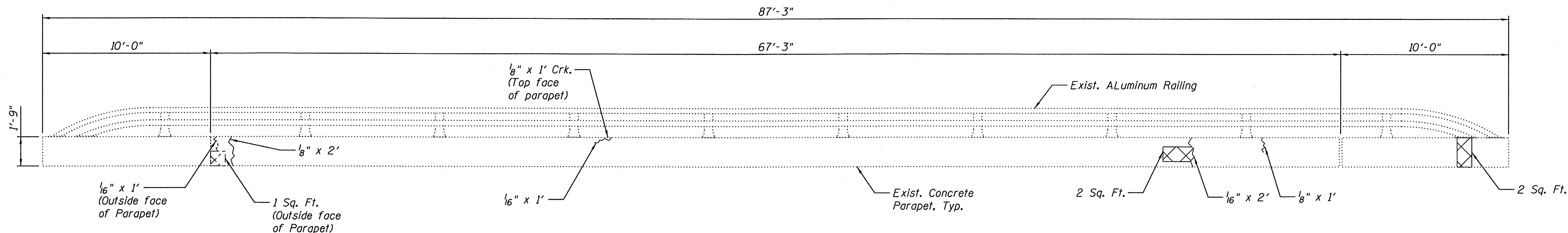
SHEET NO. S-4 OF 15 SHEETS

| | | | | |
|--------------------|------------------------|---------------|---------------------------|--------------|
| F.A. RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 71 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |



INSIDE ELEVATION OF EAST PARAPET

(Looking East)



INSIDE ELEVATION OF WEST PARAPET

(Looking West)

BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|--|---------|-------|
| Structural Repair of Concrete (Depth equal to or less than 5") | Sq. Ft. | 31 |
| Epoxy Crack Injection | Foot | 9 |
| Concrete Sealer | Sq. Ft. | 31 |

LEGEND

{ Epoxy Crack Injection (Width and Length Indicated)

⊠ Structural Repair of Concrete (Depth equal to or less than 5") and Concrete Sealer

NOTE

See the General Plan and Elevation sheet for general notes.

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LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

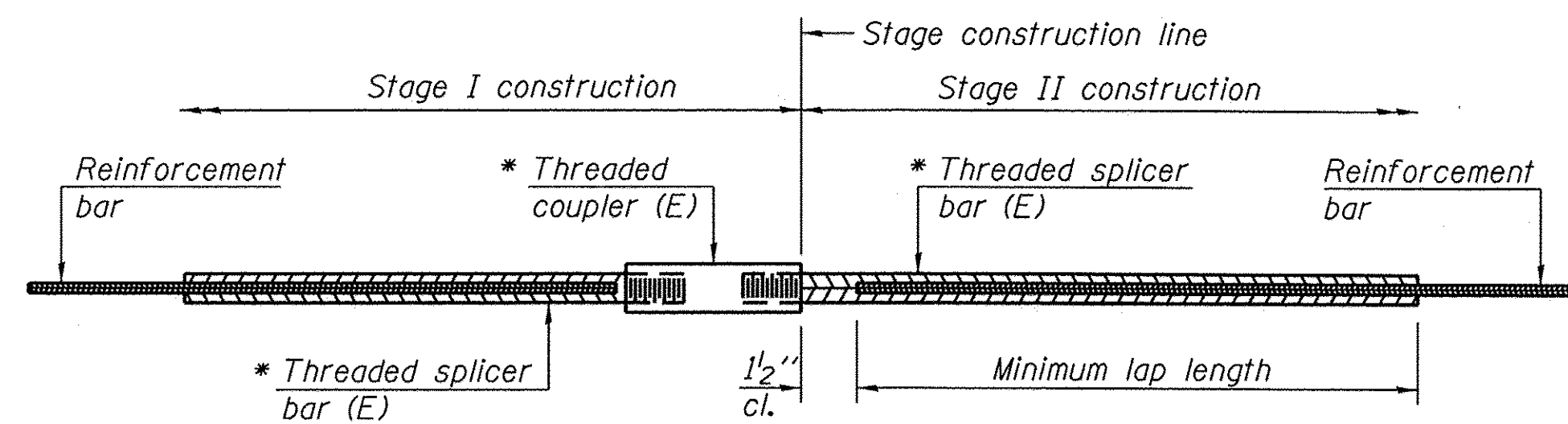
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| FILE NAME = | CHECKED - BJN | REVISED - |
| PLOT SCALE = | DRAWN - MWM | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - BJN | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARAPET REPAIRS
STRUCTURE NO. 022-7452**

SHEET NO. 5-5 OF 15 SHEETS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 362 | 14-00179-31-SP | DUPAGE | 99 | 72 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

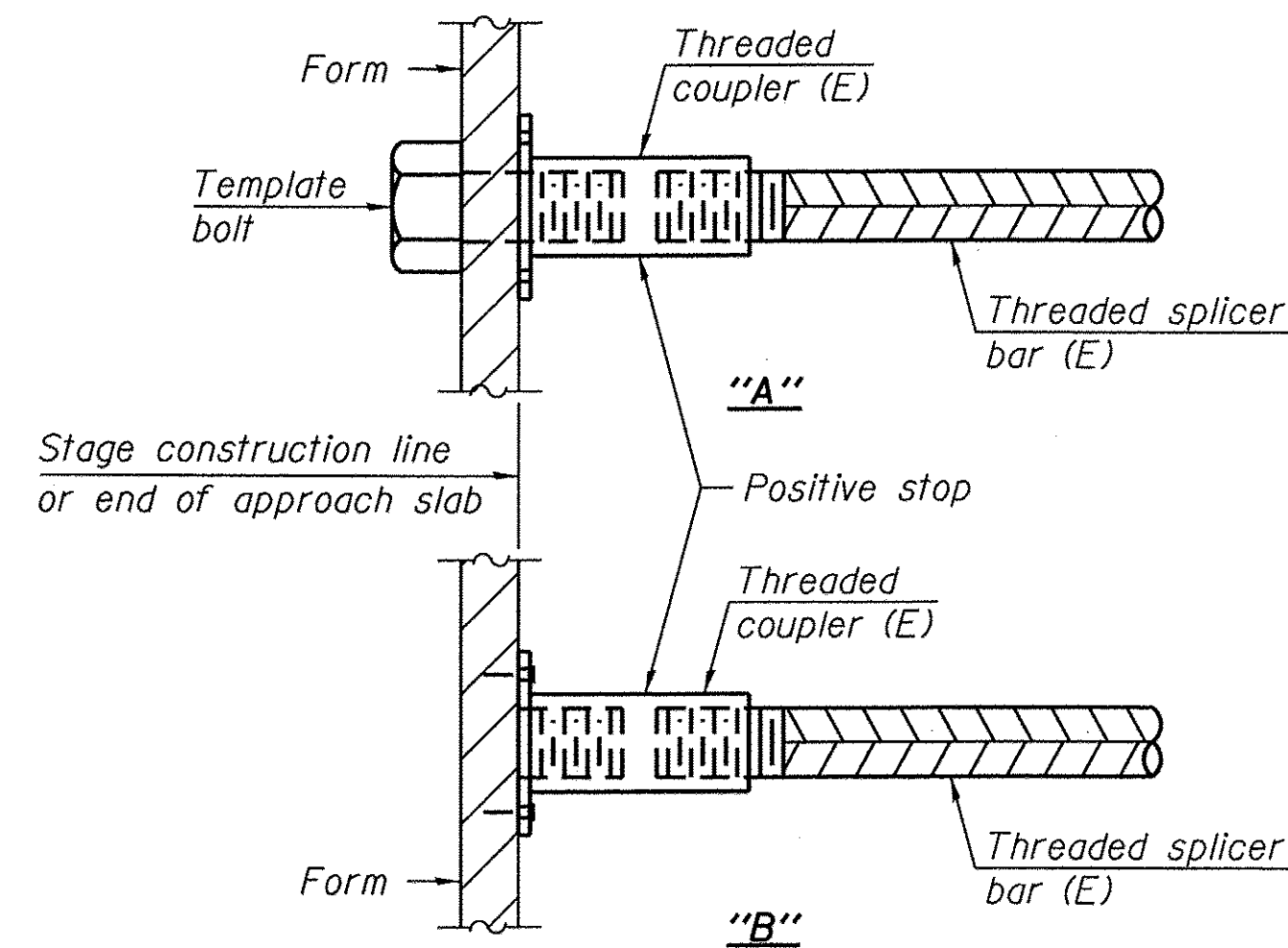


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

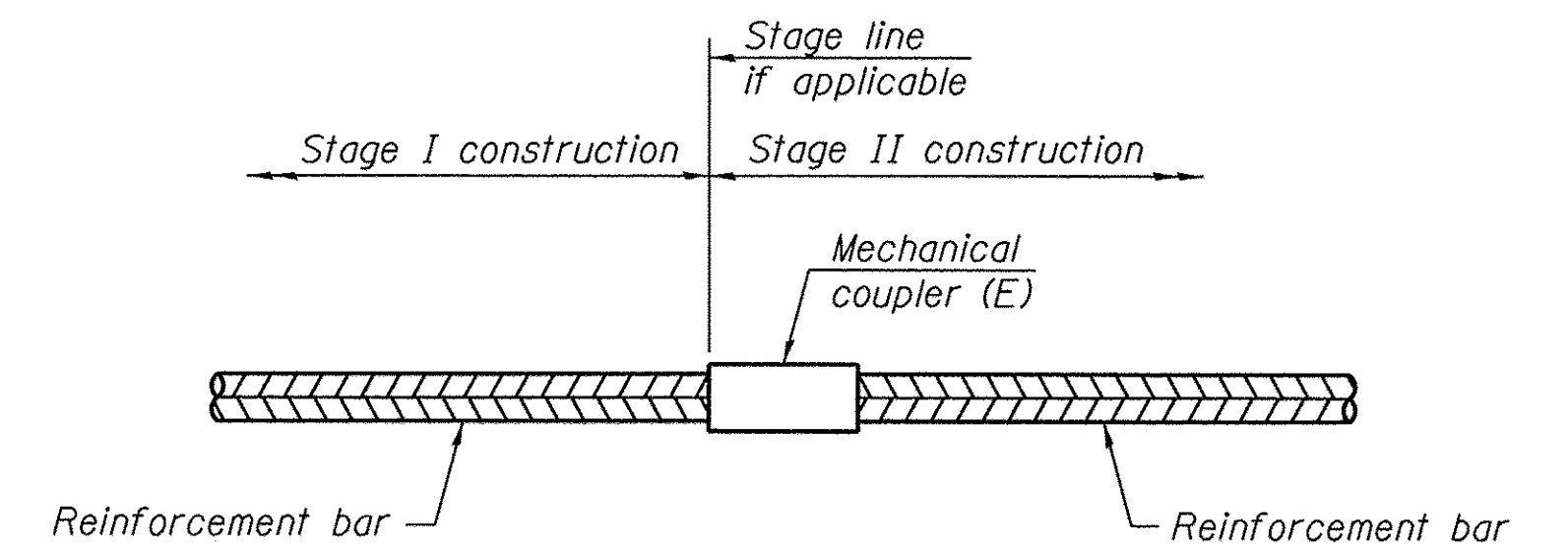
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Minimum lap length |
|----------|----------|-------------------------|--------------------|
| | | | |
| | | | |
| | | | |
| | | | |



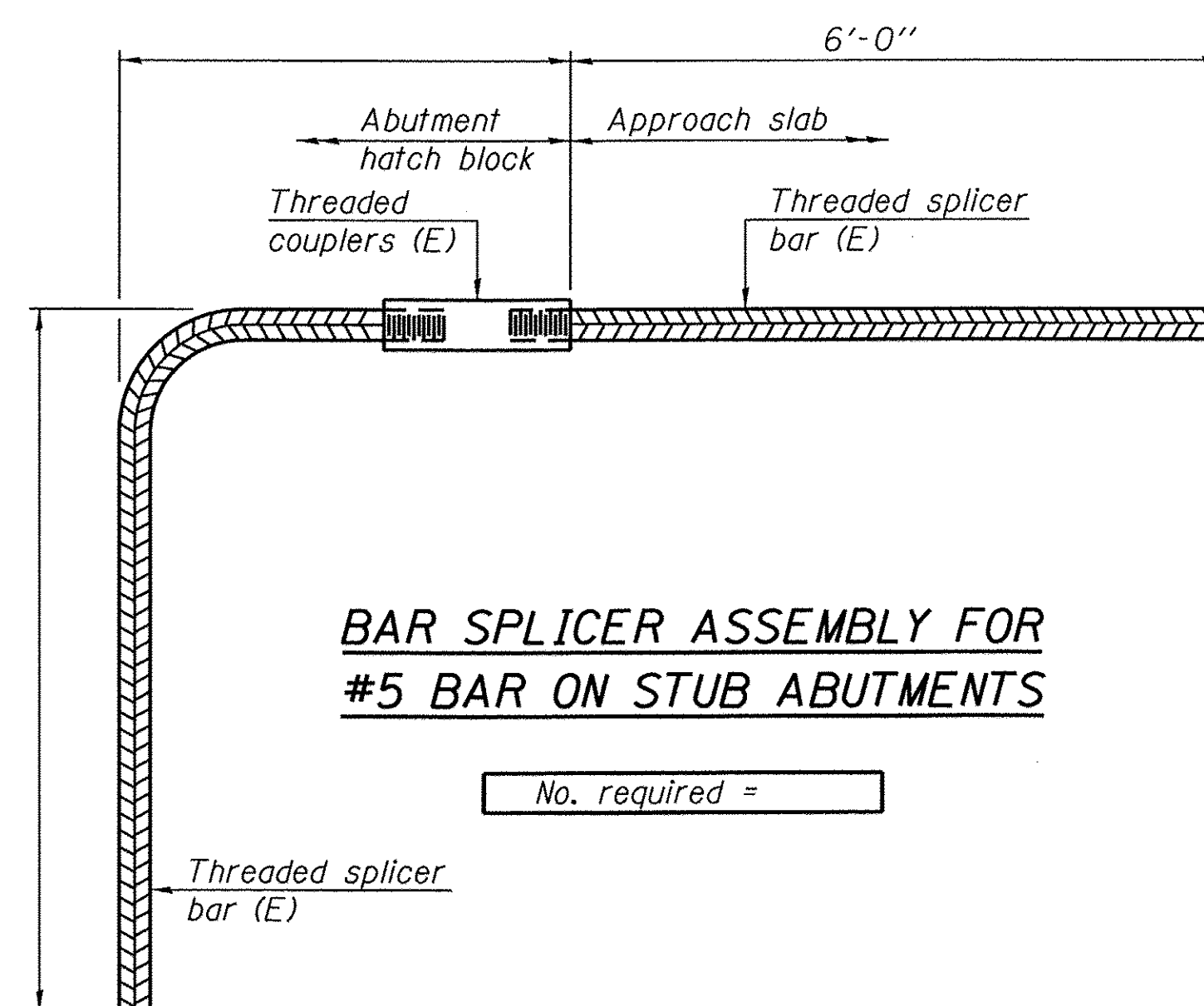
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

| Location | Bar size | No. assemblies required |
|----------------|----------|-------------------------|
| North Abutment | 5 | 8 |
| | | |
| | | |
| | | |



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

6-8-15

LOCHNER
 H. W. LOCHNER, INC.
 225 WEST WASHINGTON STREET
 12 TH FLOOR
 CHICAGO, ILLINOIS 60606

| | | |
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| USER NAME = | DESIGNED - MWM | REVISED - |
| FILE NAME = | CHECKED - BJN | REVISED - |
| PLOT SCALE = | DRAWN - EF | REVISED - |
| PLOT DATE = | CHECKED - BJN | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 022-7452**

SHEET NO. 5-6 OF 15 SHEETS

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 73 |
| CONTRACT NO. 61D62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

Review 2-2-82 Jeffrey

1-11-82

022-7452

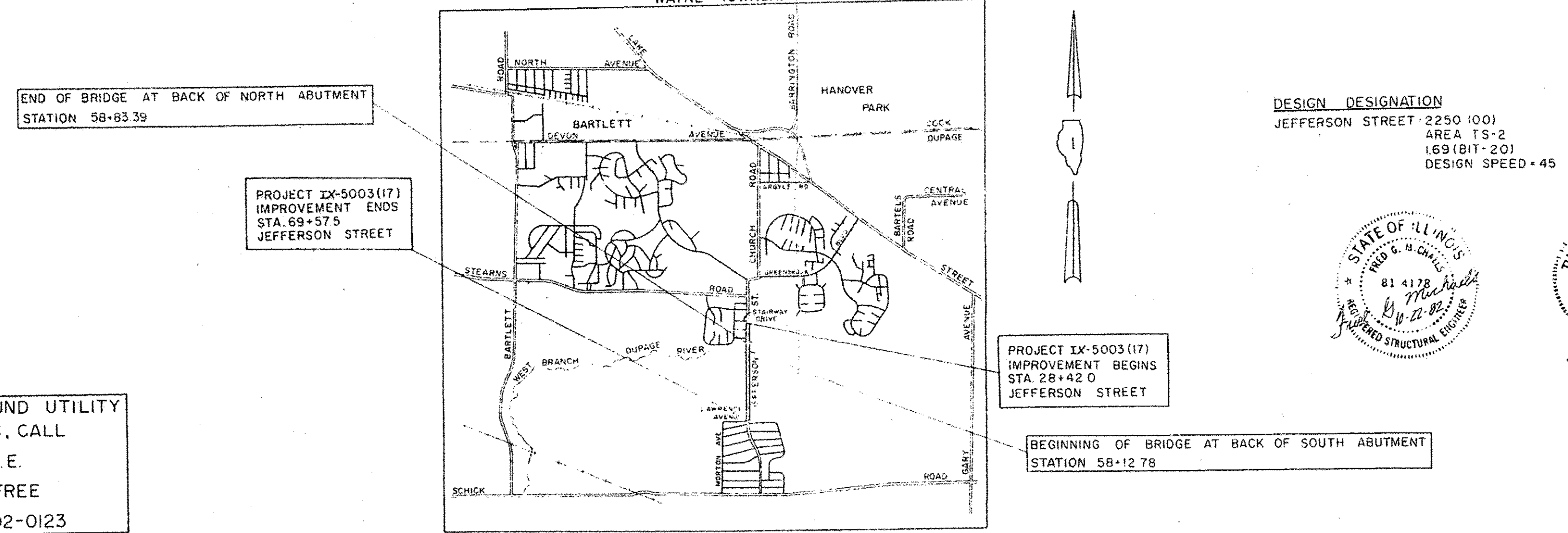
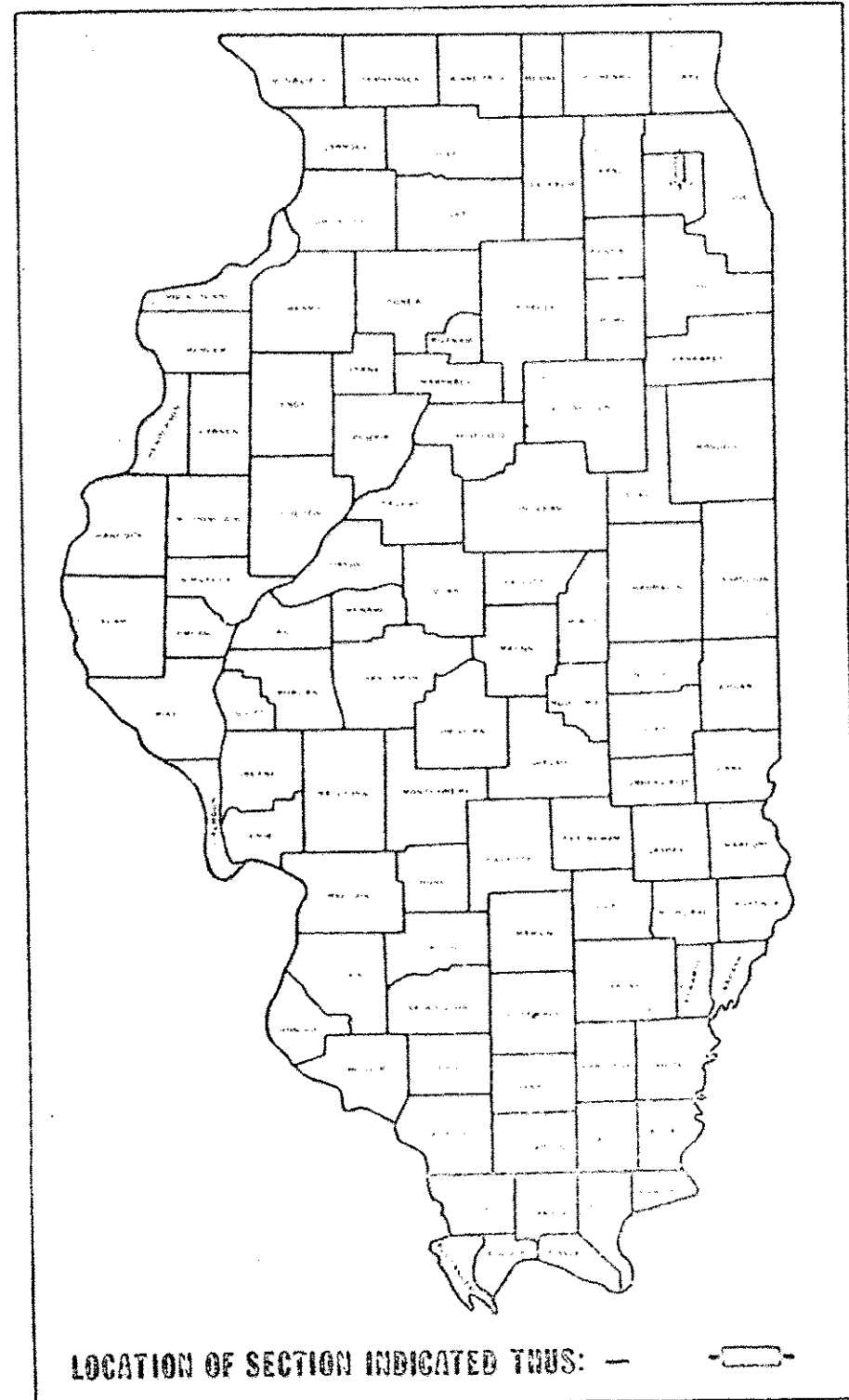
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| F.A.U.S. PROJECT M 5003 (17) | | | | |

INDEX OF SHEETS
SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
FEDERAL-AID URBAN PROJECT

SCALES { PLAN 1 INCH = 50 FEET
PROFILE HOR. 1 INCH = 50 FEET
PROFILE VERT. 1 INCH = 5 FEET
CROSS-SECTIONS HOR. 1 INCH = 10 FEET
CROSS-SECTIONS VERT. 1 INCH = 2 FEET

F.A.U. ROUTE 2548 - JEFFERSON STREET
FAUS PROJECT NO. IX-5003 (17)
STATE SECTION 606-CS.
VILLAGE SECTION 74-00006-00-WR
COUNTY SECTION 81-00179-08-FP
VILLAGE OF HANOVER PARK
COOK - DUPAGE COUNTY
JOB NO. C-91-666-74



FOR UNDERGROUND UTILITY
LOCATIONS, CALL
J.U.L.I.E.
TOLL FREE
TEL. 800-892-0123

LOCATION MAP
(NOT TO SCALE)
AREA OF IMPROVEMENT

NOTE:
The Project designation for this project
shall be IX-5003 (17)

APPROVED October 26 19 82
William A. Rame
LOCAL AGENCY OFFICIAL

PASSED _____ 19 _____
DISTRICT ENGINEER LOCAL ROADS & STREETS

APPROVED _____ 19 _____
DISTRICT ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Prepared By
MIDWEST CONSULTING ENGINEERS, INC.
Des Plaines Illinois

CONTRACT NO. 39324

JEFFERSON STREET - NET LENGTH 4115 LIN. FT. OR 0.78 MILES
1254 METERS

FOR INFORMATION
ONLY

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|---|--------------|------------|-----------|---|--|---------------------------|----------------|--------|--------------|-----------|
| LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606 | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | EXISTING PLAN - SHEET NO.1 STRUCTURE NO. 022-7452 SHEET NO. S-7 OF 15 SHEETS | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | FILE NAME = | CHECKED - | REVISED - | | | 362 | 14-00179-31-SP | DUPAGE | 99 | 74 |
| | PLOT SCALE = | DRAWN - | REVISED - | | | CONTRACT NO. 61D62 | | | | |
| | PLOT DATE = | CHECKED - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |

INDEX OF SHEETS

| | |
|-------|--|
| 1 | TITLE SHEET |
| 2 | INDEX OF SHEETS AND PLAN NOTES |
| 3 | SUMMARY OF QUANTITIES |
| 4 | GENERAL PLAN, ALIGNMENT AND TIE |
| 5 | EXISTING AND PROPOSED TYPICAL SECTIONS |
| 6 | REGIONAL DETAIL PLAN |
| 7-8 | SUSPECTED CONSTRUCTION ENCOUNTERS AND MAINTENANCE OF TRAFFIC |
| 9-11 | BRIDGE AND UTILITIES |
| 12-14 | PLAN AND PROFILE |
| 15 | LANDSCAPING, STRIPING AND SIGNING |
| 16-22 | BRIDGE PLANS |
| 23-25 | CROSS SECTIONS |
| 26 | WETLAND GRADING PLANS |
| 27 | WETLAND CROSS SECTIONS |
| 28-30 | DETAILS |

STATE STANDARDS

| | |
|--------|---|
| 1514-9 | CATCH BASINS, TYPE A AND B |
| 1527-9 | MANHOLE, TYPE A |
| 1683-4 | INLET, TYPE A |
| 1686-4 | SYMBOLS AND ABBREVIATIONS |
| 2113-2 | NAME PLATE FOR BRIDGES |
| 2130-7 | CONCRETE CURB AND COMBINATION CURB AND GUTTER |
| 2213-4 | FRAMES AND LIDS, TYPE 1 |
| 2220-3 | FRAMES AND GRATES, TYPE 11 |
| 2262-4 | REINFORCED CONCRETE PIPE ELBOW AND PRECAST REINFORCED CONCRETE FLARED END SECTION |
| 2298-6 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES |
| 2299-9 | DESIGN OF TRAFFIC CONTROL DEVICES |
| 2300-2 | FLAGMAN TRAFFIC CONTROL SIGN |
| 2319-4 | SIGN PANEL MOUNTING DETAILS |
| 2320-3 | SIGN PANEL ERECTION DETAILS |
| 2354-1 | PRECAST REINFORCED CONCRETE FLAT SLAB TOP |
| 2360-2 | Bridge Approach Pavement |

PLAN NOTES

PROTECTIVE COAT: Shall be applied to all gutter flags and face of curb in accordance with Article 408.23 of the Standard Specifications.

PAVEMENT GRADES: The elevations shown on the plans are finished grades of proposed pavement or surface course, unless otherwise indicated.

STANDARDS: Any reference to "Standards" throughout the plans or special provisions shall be interpreted to be the latest standard of the Illinois Department of Transportation as shown on this sheet.

DISPOSAL OF MATERIALS: The contractor will be required to dispose of all unsuitable and/or excess driveway pavement, sidewalk, curb & gutter, pavement and all other materials excavated or removed due to construction operations at his expense. No payment will be made for his expense to haul or truck the material to distant dumping sites.

SUPPLEMENTAL WATERING: When directed by the engineer supplemental watering shall be applied to all sodded areas prior to final acceptance of a rate specified by the engineer and in accordance with the "Standard Specifications".

FRAMES AND GRATES: The type of frames and grates required for all inlets, catch basins & valve vaults listed in the summary of quantities may be found on the plans at their respective locations.

The frames and lids of existing catch basins, inlets, manholes and valve vaults which are to be abandoned due to construction of this improvement are property of the Village of Hanover Park and shall be stored on the jobsite for pickup by the Department of Public Works.

PUBLIC OR PRIVATE UTILITIES: The locations of public or private utilities shown on the plans are approximate and the Village does not warrant their accuracy. The contractor will be required to ascertain the exact locations of such utilities and exercise care during his construction operations so as not to damage them in accordance with the special provisions and article 107.19 of the "Standard Specifications".

EMBANKMENT: Particular attention is called to the requirements of Section 707.03 of the "Standard Specifications".

PRESERVATION OF TREES AND SHRUBS: The contractor shall be required to remove only those trees and shrubs designated for removal by the engineer or those which directly interfere with the safety or quality of construction practices. The contractor shall exercise extreme care when working near existing trees and shrubs to avoid damaging those not scheduled for removal and shall replace any such damaged plants at his own expense.

SPECIALTY ITEMS: In respect to Article VII, "Subletting or waiving the CONTRACT" which is part of the "Required Provisions - (Form F.R. 1234)", noted in the "Supplemental Specifications and Unrepealed Special Provisions" that are indicated in the Summary of Quantities shall be considered as Specialty Items for the improvement.

TOP OF CURB ELEVATIONS: Before setting the top of curb elevations, the engineer shall check the existing elevations at the adjacent property line and, if necessary, require the contractor to vary the curb exposure and/or gutter elevations in order to more closely follow the property line grades.

SPECIAL EXCAVATION: Following is an estimated list of major items of work for Digging information purposes which are included in the item of special excavation:

| ITEM | UNIT | QUANTITY |
|-----------------------------|---------|----------|
| Pavement Removal | CU YD | 640 |
| Curb & Gutter Removal | LIN FT. | 1,361 |
| Sidewalk Removal | SQ. FT. | 1,580 |
| Storm Sewer Removal | LIN FT. | 478 |
| C.H.P. Removal (10" to 18") | LIN FT. | 235 |
| Earth Excavation * | CU YD. | 18,167 |

It shall be understood and agreed that the above items of work are approximate and do not constitute all of the work as defined under Section 205 of the Standard Specifications. It shall be further understood and agreed upon that the listing of these items of work are intended to describe the essential parts of the item of Special Excavation, and no additional compensation will be allowed for any variance in either the Item or Quantities of work shown in the above mentioned listing.

*Estimated FWH = 12,807 CY.

NOTE:
The Standard Specifications for Road and Bridge Construction Adapted October 1, 1979 Shall Govern this Work.

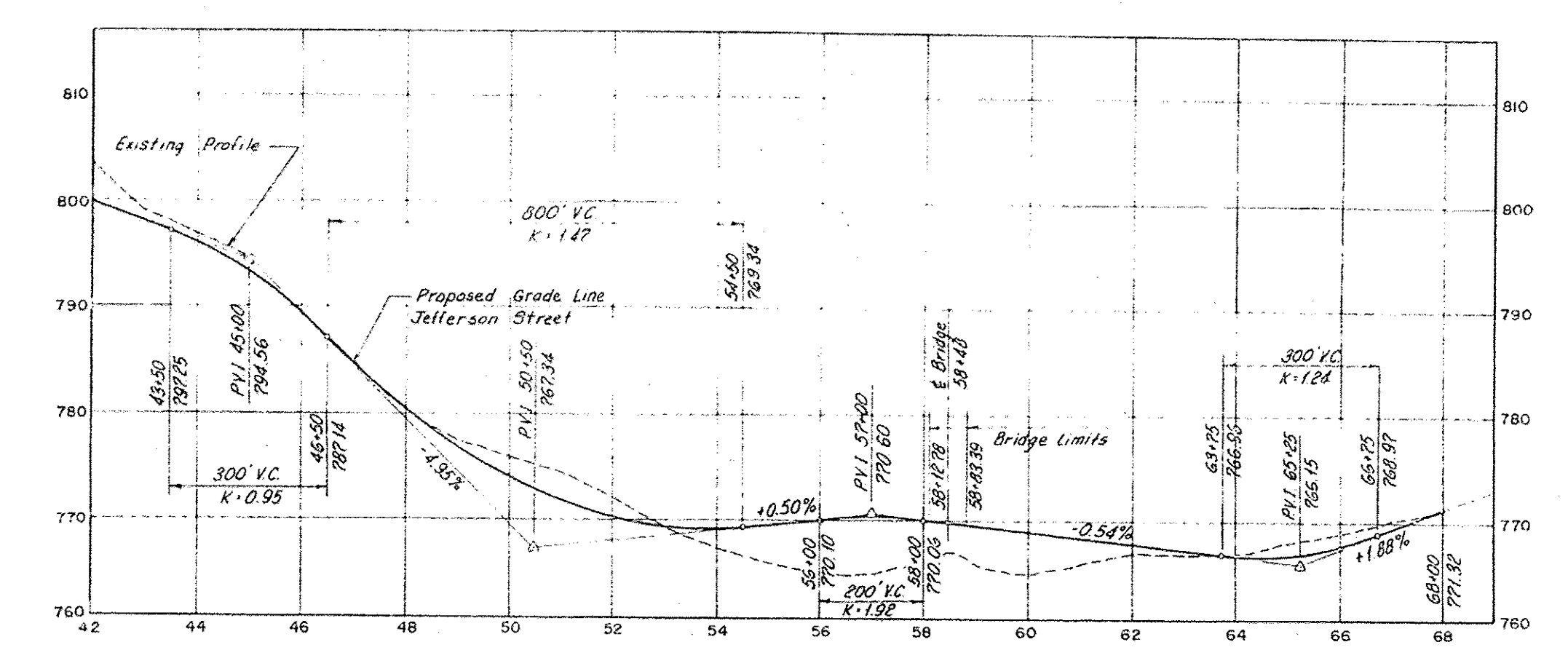
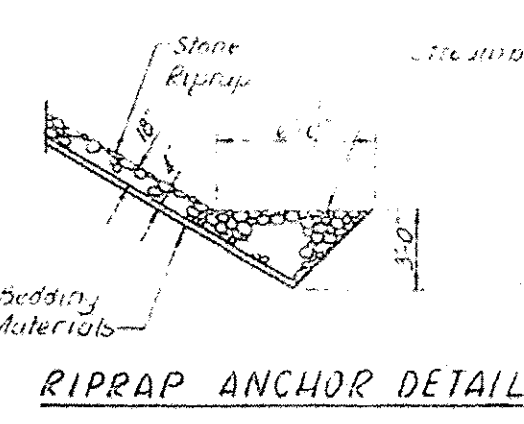
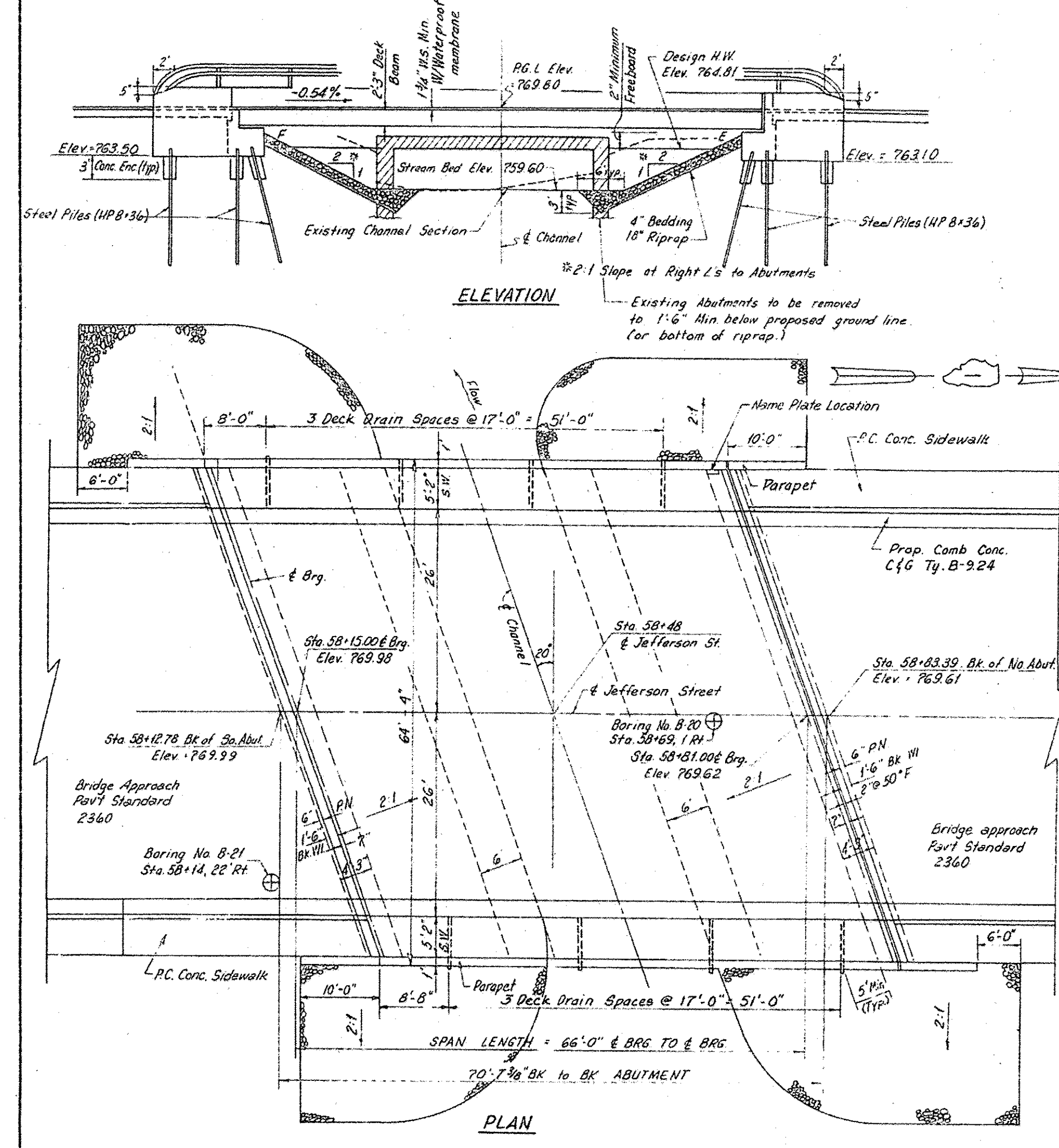
Revised 2-1-83

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|--------------------------------|--------|
| DEPARTMENT OF TRANSPORTATION: | |
| INDEX OF SHEETS AND PLAN NOTES | |
| DATE | 9-8-82 |
| CHECKED BY | HPS |

| REVISIONS | |
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| NAME | DATE |
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FOR INFORMATION ONLY

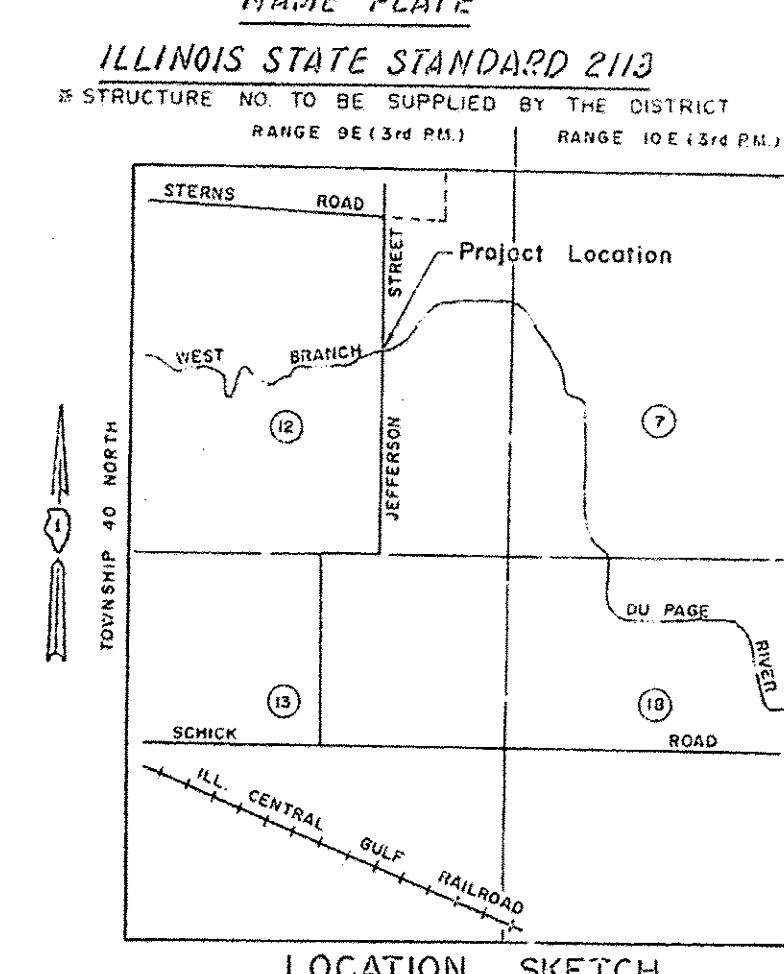
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| TOTAL BILL OF MATERIALS | | | | |
|--|--------|-------|-------|--------|
| ITEM | UNIT | SUPER | SUB | TOTAL |
| CLASS X CONCRETE | CU YD | 41 | 110 | 151 |
| REINFORCEMENT BARS | LBS | 1,875 | 8,665 | 10,540 |
| REINFORCEMENT BARS (EPOXY COATED) | LBS | 2,020 | 101 | 2,121 |
| PRECAST PRESTRESSED DECK BEAMS (27" DEPTH) | SQ FT | 4,304 | - | 4,304 |
| WATERPROOFING MEMBRANE SYSTEM | SQ YD | 401 | - | 401 |
| BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS 1 | TON | 34 | - | 34 |
| NEOPRENE EXPANSION JOINT 2" | LIN FT | 69 | - | 69 |
| PORTLAND CEMENT MORTAR FAIRING COURSE | LIN FT | 1,042 | - | 1,042 |
| PROTECTIVE COAT | SQ YD | 126 | - | 126 |
| FURNISHING STEEL PILES HP 8x36 | LIN FT | - | 2,125 | 2,125 |
| TEST PILE STEEL HP 8x36 | EA. | - | 1 | 1 |
| NAME PLATE | EA. | 1 | - | 1 |
| STONE RIPRAP | SQ YD | - | 380 | 380 |
| REMOVAL OF EXISTING STRUCTURE | EA. | - | - | 1 |
| ALUMINUM HANDRAIL TYPE L | LIN FT | 171.1 | - | 171.1 |
| TEMPORARY BRIDGE | EA. | - | - | 1 |

- GENERAL NOTES:**
- Existing Bridge Data: Bridge No. 022-7450; One Span Reinforced Concrete Deck with Solid Concrete Abutments; 20'4" Wide and 30' Long. Built in 1930. Superstructure and Portions of the Substructure shall be removed by the Bridge Contractor. No Salvage.
 - Traffic shall be Detoured during Construction.
 - A Calcium Nitrate Corrosion Inhibitor, as covered in the Special Provision, shall be used in the P.C. Deck Beams, Sidewalks and Parapets.
 - See Proposal for Boring Data.
 - The Top Surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specification except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".
 - The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
 - Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
 - Protective coat shall not be applied to surfaces to which waterproofing Membrane System is applied.
 - The contractor shall drive one (1) steel HP 8x36 test pile in a permanent location at the North Abutment as directed by the engineer before ordering the remainder of piles.

STATION 58+48.08
BUILT 196 BY
STATE OF ILLINOIS
F.A.U. RT. 2548 - SEC. 606 CS
F.A.U. PROJ. NO. IX-5003(17)
LOADING HS20-44
STR. NO.



WATERWAY INFORMATION

| DRAINAGE AREA = 1291 SQ. MI. | | LOW GRADE ELEV. = 767.25 @ STA. 58+76 | | | | |
|------------------------------|-----------|---------------------------------------|-----------------|-------------|------------|---------------|
| FLOOD | FREQ. YR. | Q C.F.S. | OPENING SQ. FT. | NAT. H.W.E. | HEAD - FT. | HEADWATER EL. |
| DESIGN | 50 | 896 | 122.1 | 220.00 | 764.81 | 1.55 |
| BASE | 100 | 970 | 124.9 | 222.60 | 764.92 | 1.77 |
| OVERTOPPING | | | | | | |
| MAX CALC | 500 | 1124 | | | | |

DESIGN STRESSES

FIELD UNITS PRECAST PRESTRESSED UNITS

f_c = 3,500 psi f_c = 3,000 psi

f_y = 60,000 psi (Reinfc) f_s = 4,200 psi

f_s = 20,000 psi (Struct) f_s = 270,000 psi (1/8" # strands)

f_s = 189,000 psi (1/8" # strands)

LOADING HS20-44

DESIGN SPECIFICATION 1977 AASHTO, 1978, 1979, 1980 & 1981 INTERIM SPECIFICATIONS

DEPARTMENT OF TRANSPORTATION

JEFFERSON STREET
 WEST BRANCH DU PAGE RIVER
 STATION 58+48
GENERAL PLAN @ ELEVATION

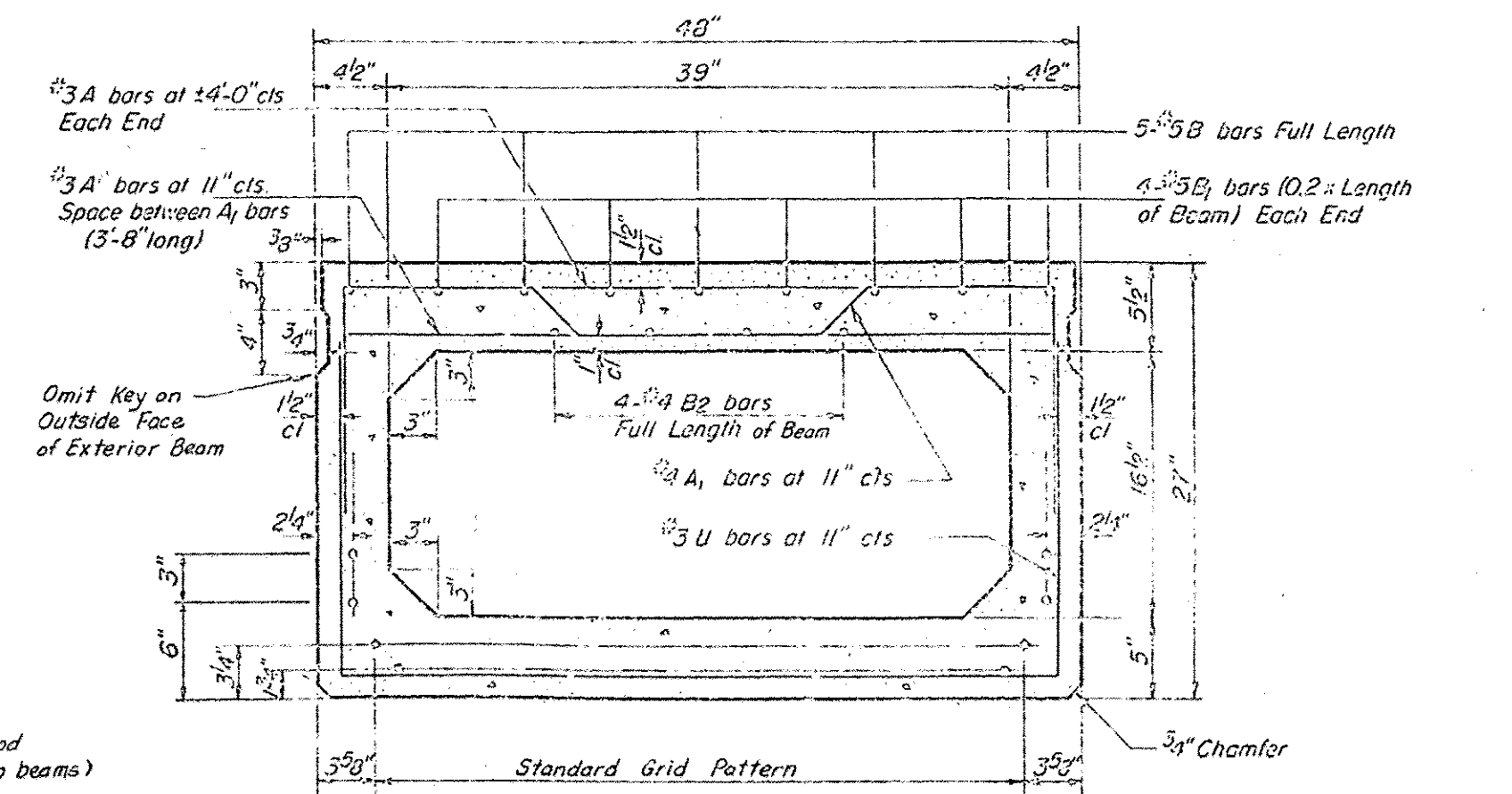
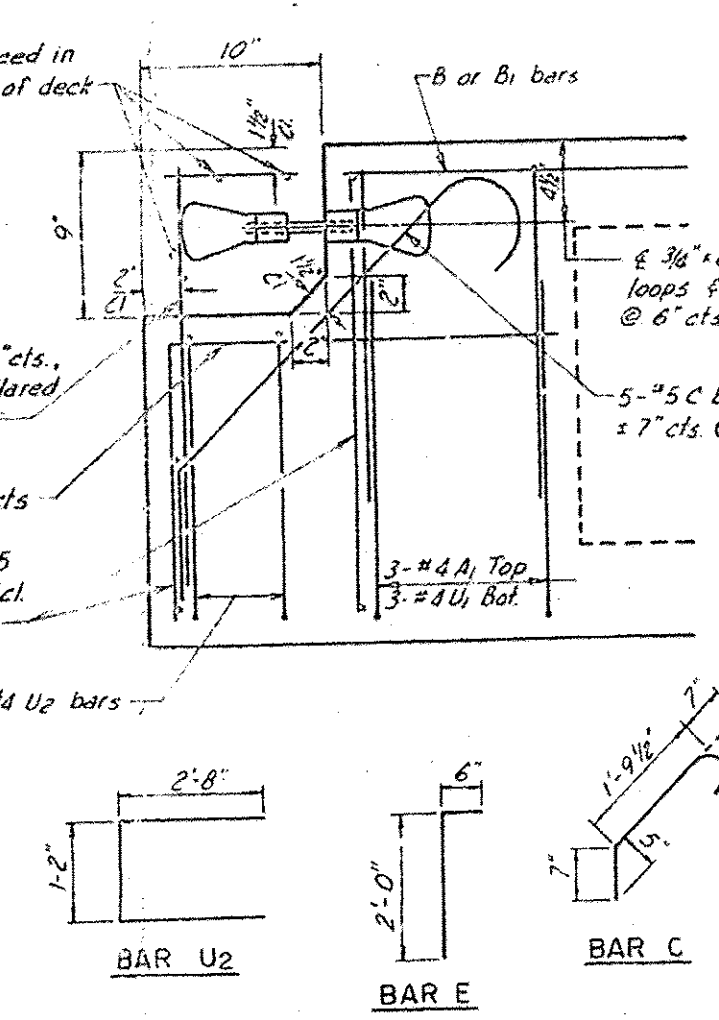
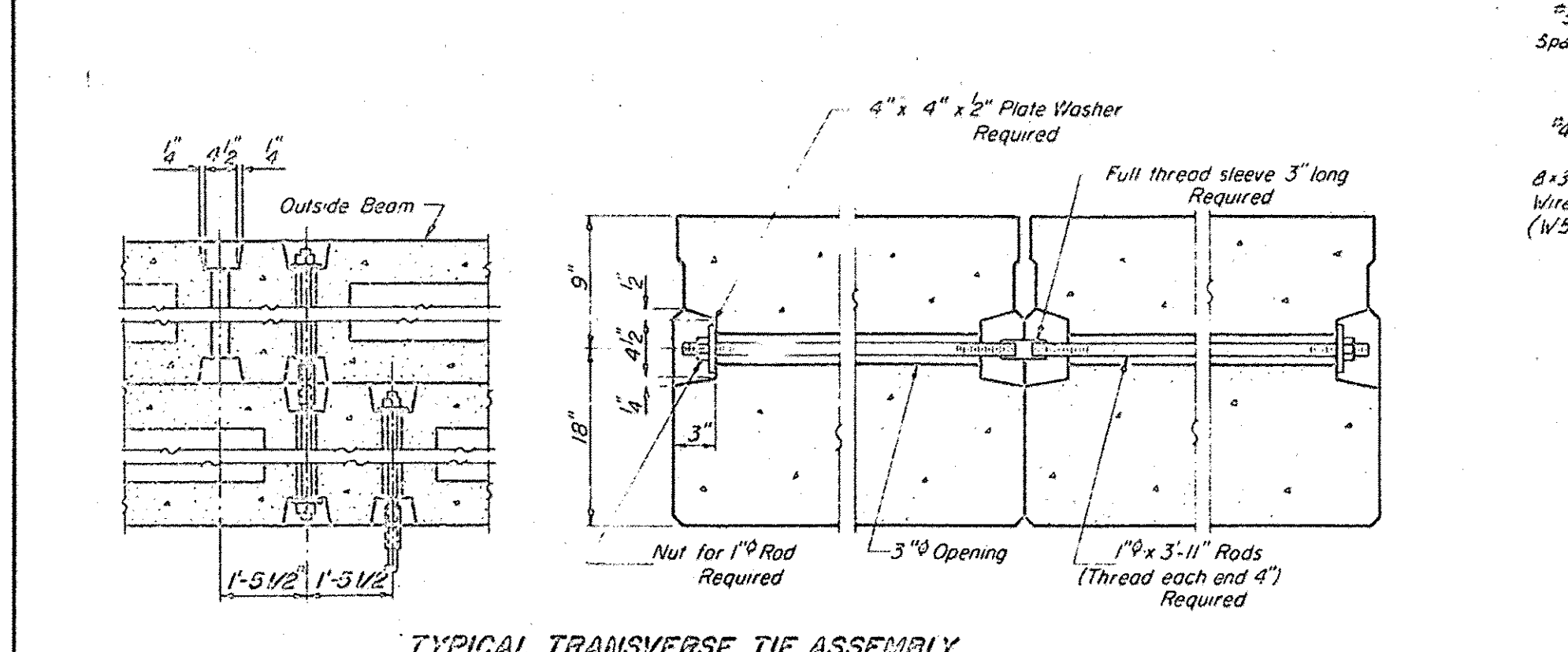
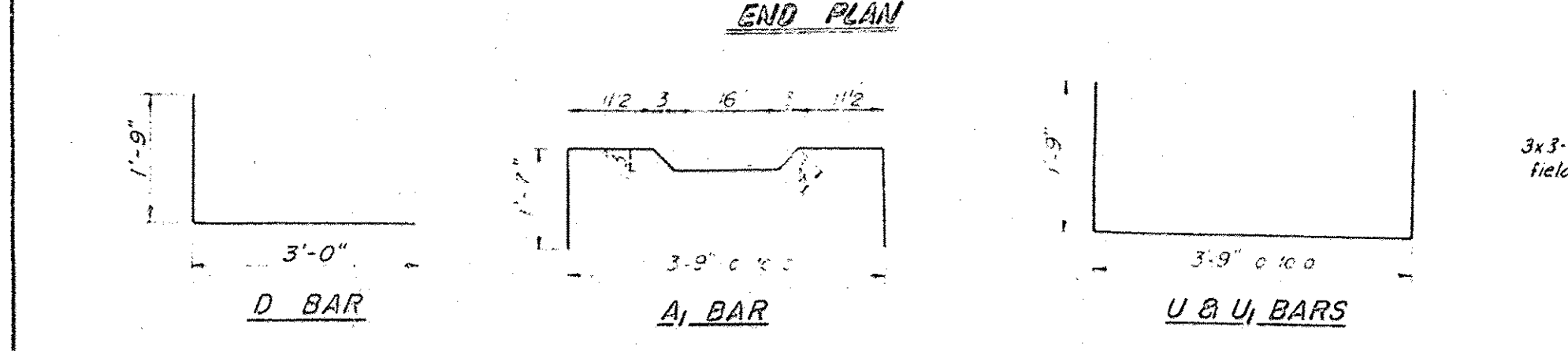
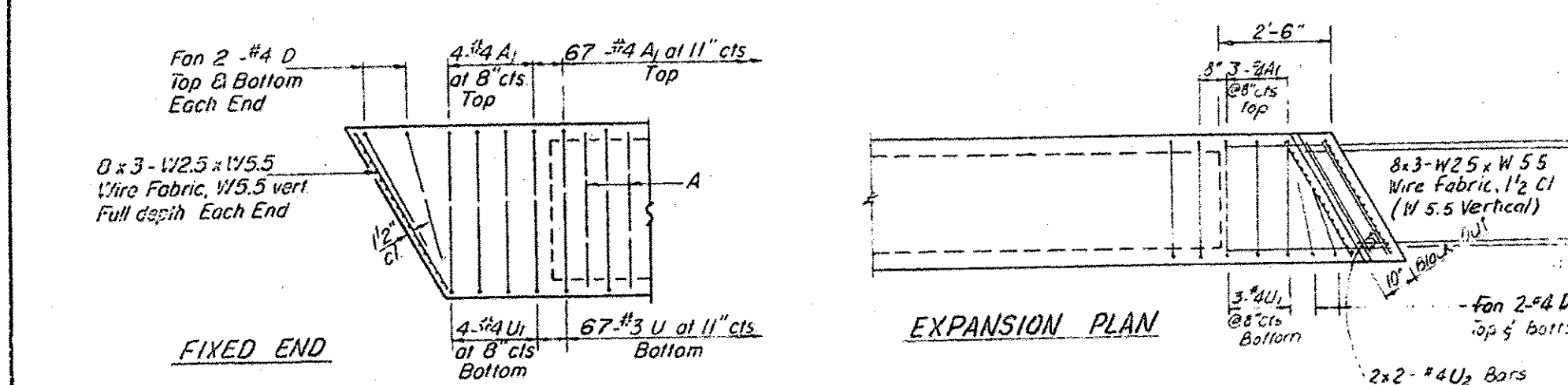
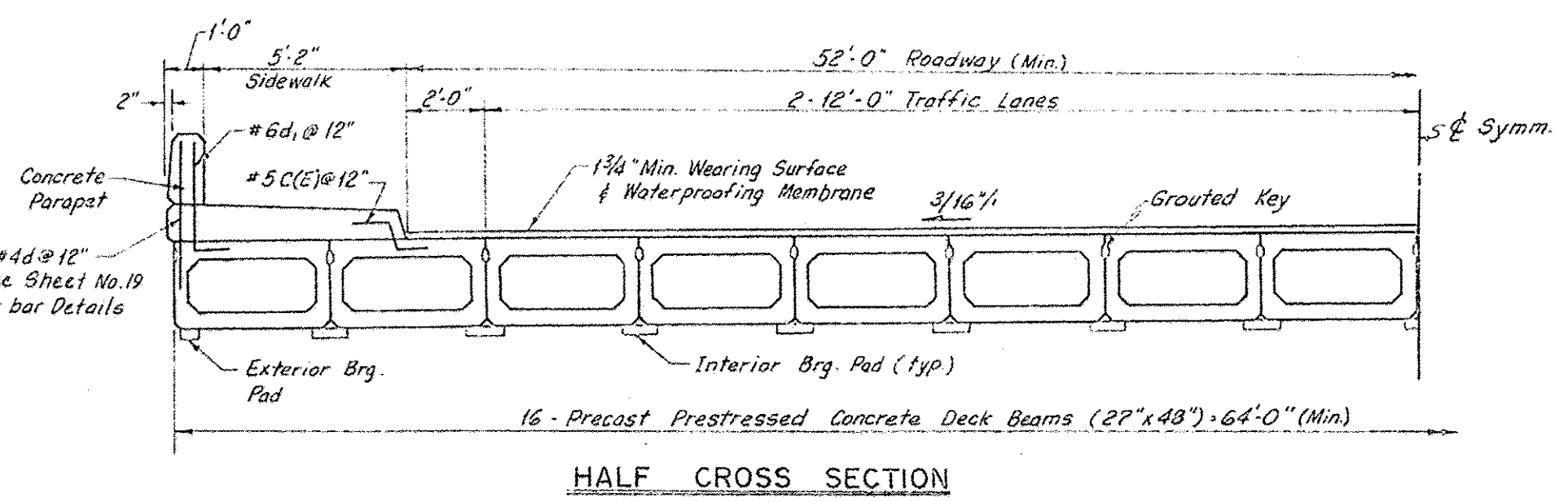
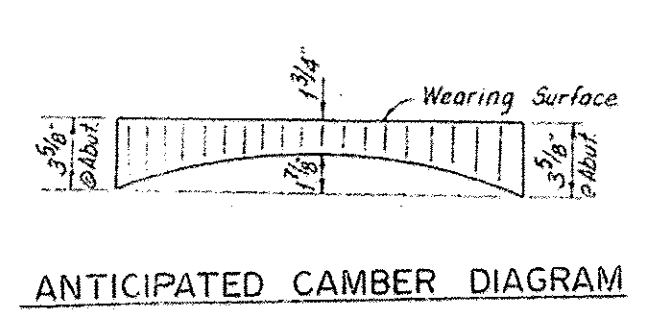
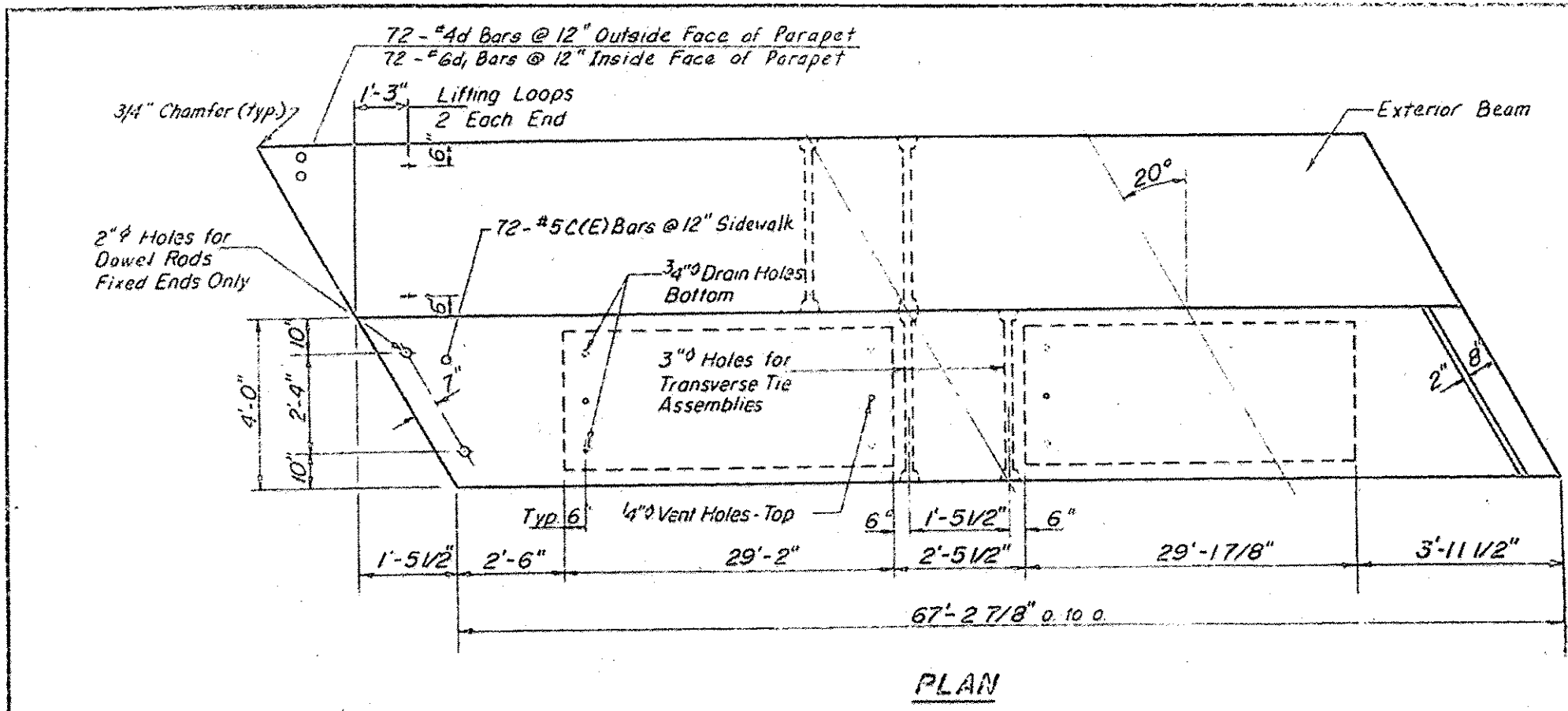
DATE 9.8.82
 CHECKED BY F.G.H.

| REVISIONS | |
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| NAME | DATE |
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FOR INFORMATION ONLY

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|--------------------------------------|-----------------|-----------------|--------------|-----------|
| F.A. RTE. | VILLAGE SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 254B | X | DU PAGE | 35 | 17 |
| STA 56+12.78 | | TO STA 58+83.39 | | |
| ILLINOIS FED. AID PROJECT M-5003(U7) | | | | |
| 274-00306-00-WR | | | | |



NOTES:
 1) Place strands symmetrically about \bar{c} beam
 2) Bars d, a₁, and c(E) are to be cast into the Deck Beams (Cast Incidental to Deck Beam, See Half Cross Section for Location)

NOTES:
 Keyway Surfaces shall be cleaned to remove form oil or other hard breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of beam and the bottom edge of the key. Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 7/8" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 63,000 lbs. or 3-1/2 #270 ksi strands. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.
 Reinforcement bars shall conform to AASHTO M-31 or M-53, Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

| REVISIONS | |
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| NAME | DATE |
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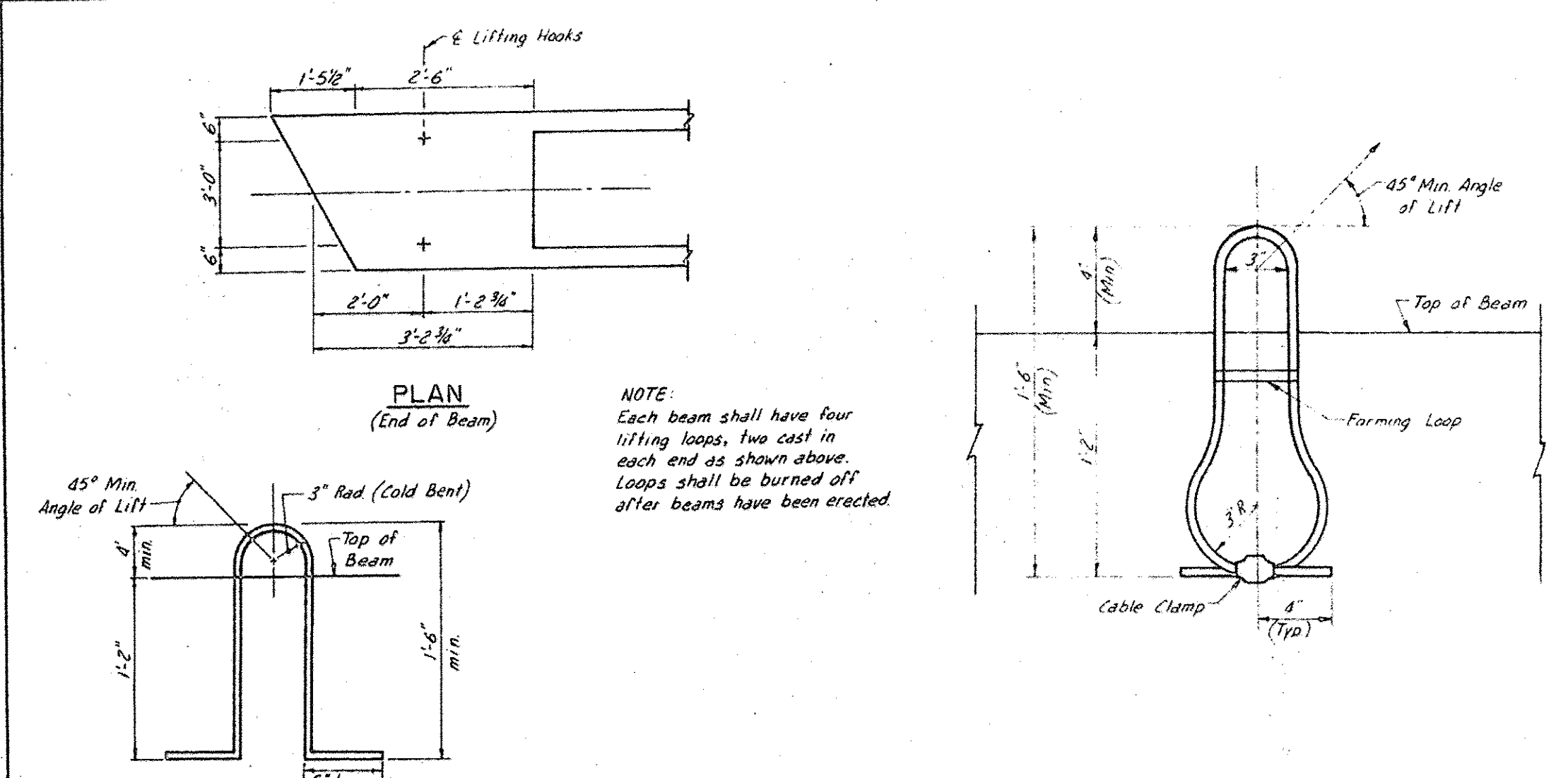
DEPARTMENT OF TRANSPORTATION
 JEFFERSON STREET
 WEST BRANCH DU PAGE RIVER
 STATION 58+48
SUPERSTRUCTURE DETAILS
 DATE 9-8-82
 CHECKED BY EGM

FOR INFORMATION ONLY

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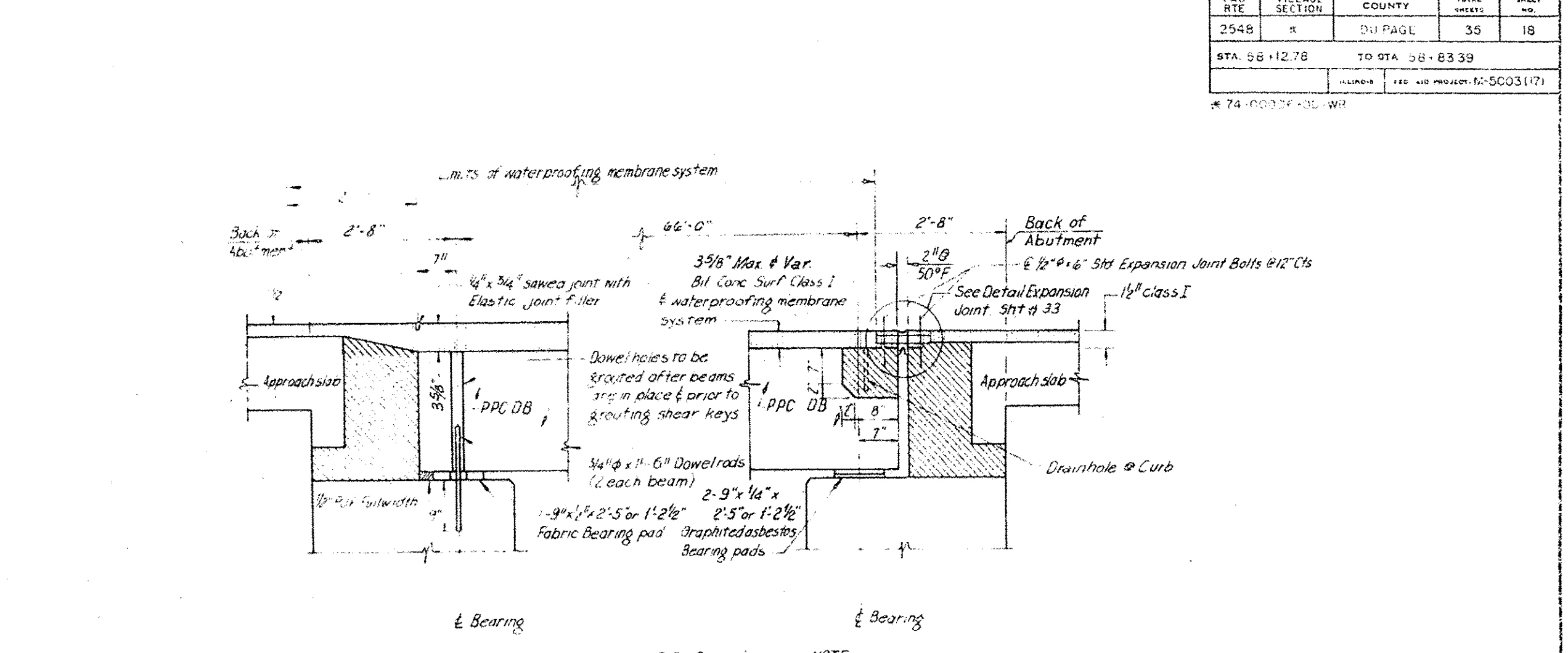
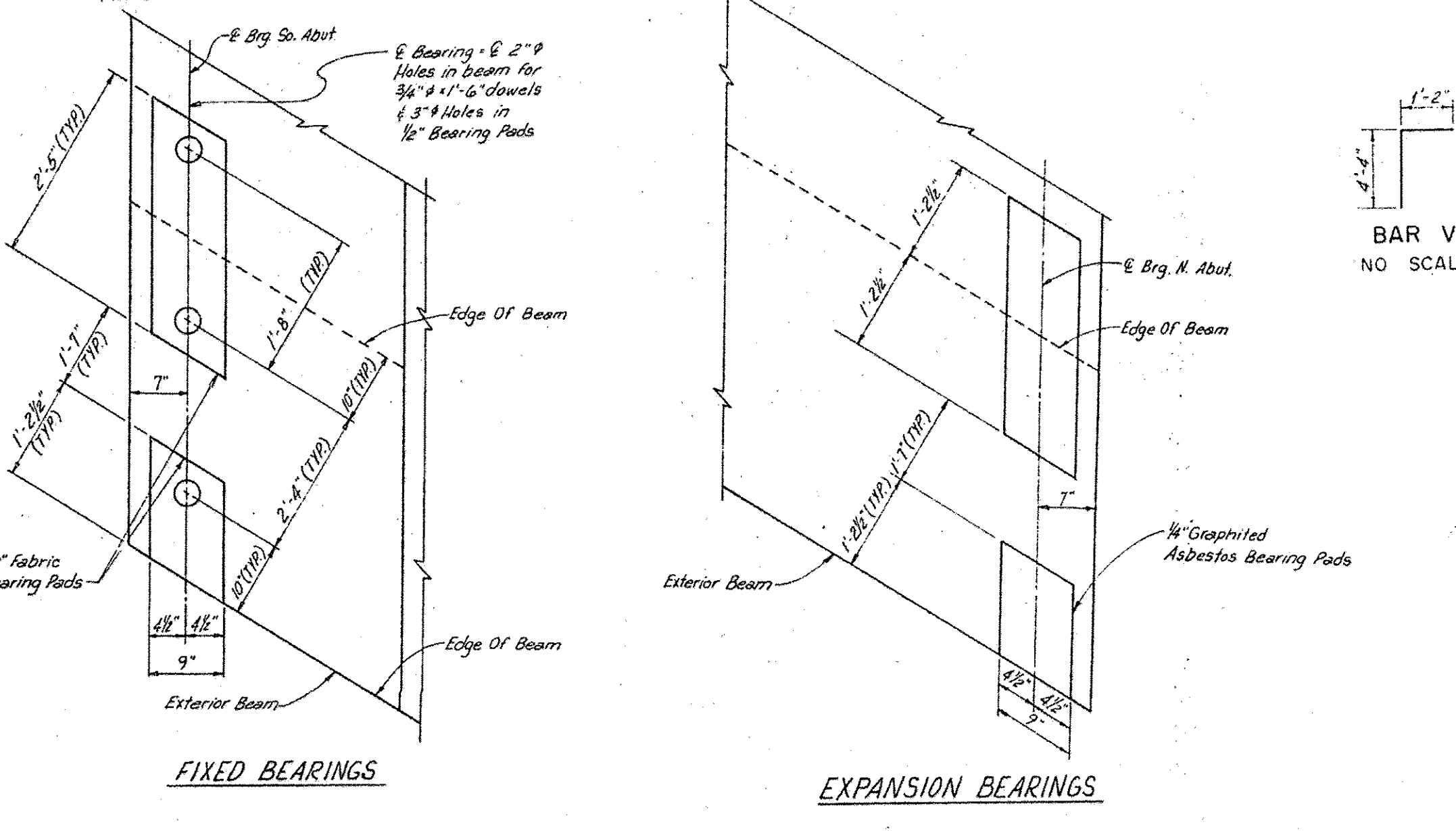
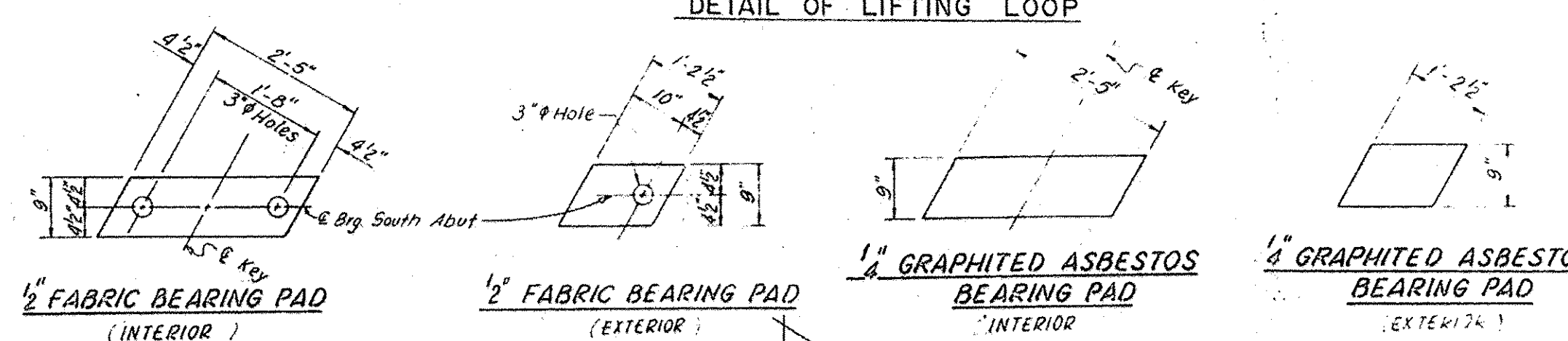
| | | | | | | | | | | |
|---|-------------|------------|-----------|---|---|----------------------------|----------------|---------------------------|--------------|-----------|
| LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606 | USER NAME = | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | EXISTING PLAN - SHEET NO.17 STRUCTURE NO. 022-7452 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | FILE NAME = | CHECKED - | REVISED - | | | 362 | 14-00119-31-SP | DU PAGE | 99 | 77 |
| PLOT SCALE = | DRAWN - | REVISED - | | | | CONTRACT NO. 61D62 | | | | |
| PLOT DATE = | CHECKED - | REVISED - | | | | SHEET NO. S-100F 15 SHEETS | | ILLINOIS FED. AID PROJECT | | |

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|--------------------|------------------|--------|--------------|-----------|
| FILE NO. | VILLAGE SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 2548 | 11 | DUPAGE | 35 | 18 |
| STA. 58+12.78 | TO STA. 58+83.39 | | | |
| * 74-10027-100-100 | | | | |



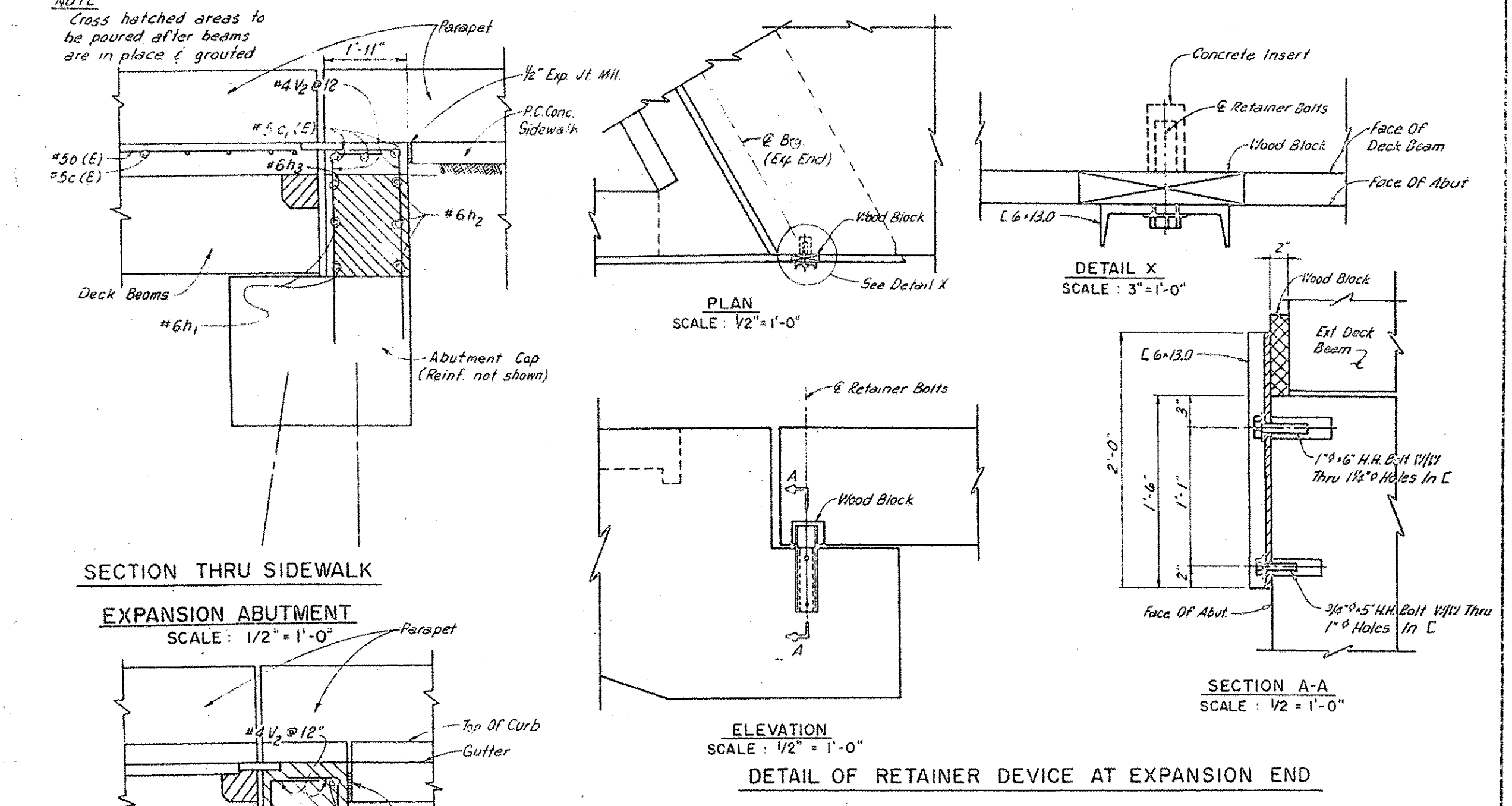
ALTERNATE NO. 1
 Notes: Lifting loops shall be 7 wire stress relieved 1/2" φ - 270 K.S.I. strands. 3-1/2" φ strands required at each point of lifting - 270 K.S.I. the loop shall be formed in a manner such that all strands are engaged during lifting.

ALTERNATE NO. 2
 Note: Lifting loops shall be 6x25 class wire rope with fiber core. Minimum ultimate tensile strength shall be 63,000* using 1/8" φ wire rope (improved plow steel)



FIXED ABUTMENT
 NOTE: Cross hatched areas to be poured after beams are in place & grouted.

EXPANSION ABUTMENT
 NOTE: ENDS OF BEAMS SHALL BE ALIGNED AT THE EXPANSION JOINTS ANY LINEAL VARIATION IN THE BEAM LENGTHS SHALL BE PLACED AT THE FIXED ENDS.



| REVISIONS | |
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| NAME | DATE |
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DEPARTMENT OF TRANSPORTATION
 JEFFERSON STREET
 WEST BRANCH DU PAGE RIVER
 STATION 58+48
SUPERSTRUCTURE DETAILS
 DATE 9-8-82
 CHECKED BY F.G.M.

FOR INFORMATION ONLY

LOCHNER
 H. W. LOCHNER, INC.
 225 WEST WASHINGTON STREET
 12 TH FLOOR
 CHICAGO, ILLINOIS 60606

| | | |
|--------------|------------|-----------|
| USER NAME = | DESIGNED - | REVISED - |
| FILE NAME = | CHECKED - | REVISED - |
| PLOT SCALE = | DRAWN - | REVISED - |
| PLOT DATE = | CHECKED - | REVISED - |

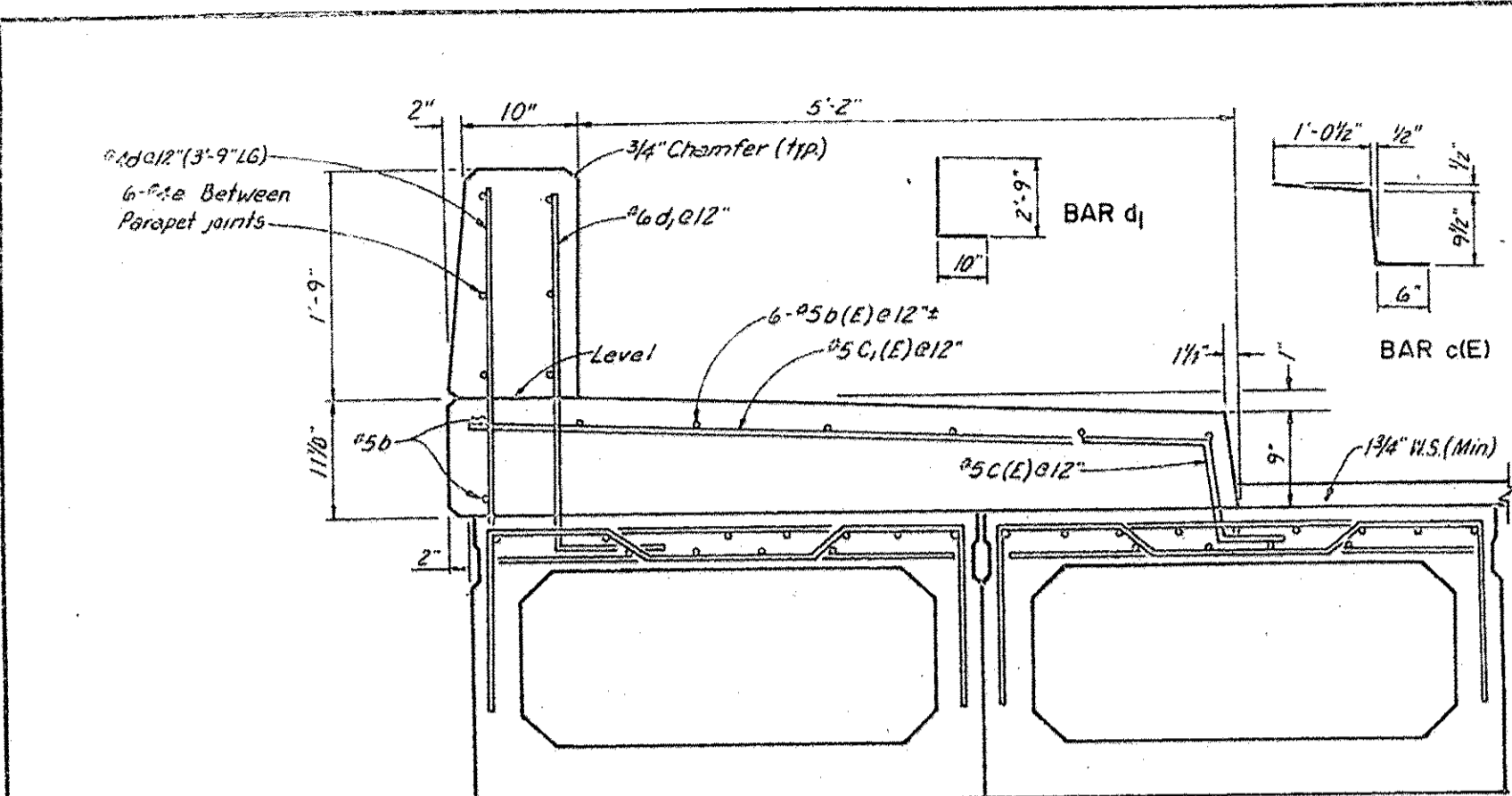
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLAN - SHEET NO.18
 STRUCTURE NO. 022-7452

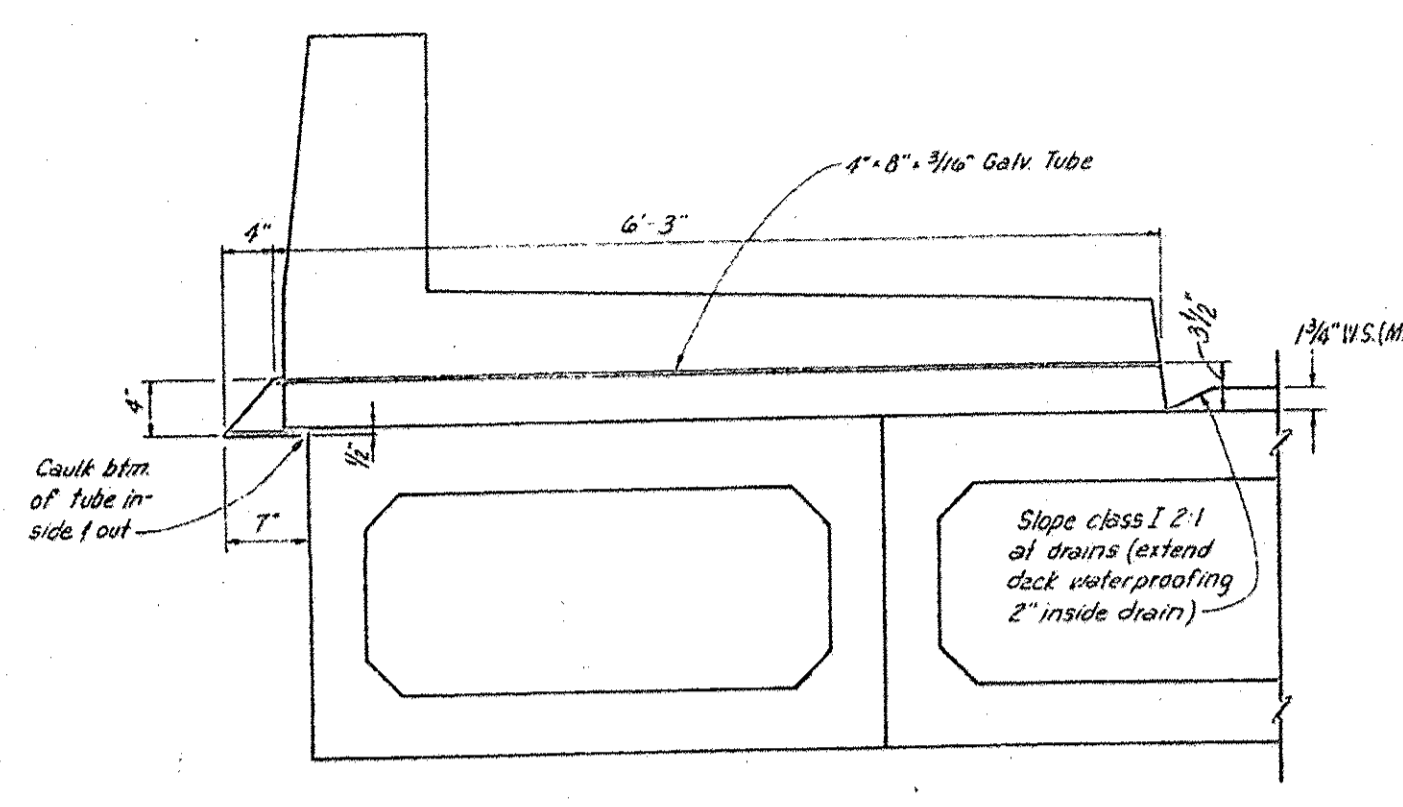
SHEET NO. 5-11 OF 15 SHEETS

| | | | | |
|---------------------------|----------------|--------|--------------|--------------------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00199-31-SP | DUPAGE | 99 | 78 |
| | | | | CONTRACT NO. 61D62 |
| ILLINOIS FED. AID PROJECT | | | | |

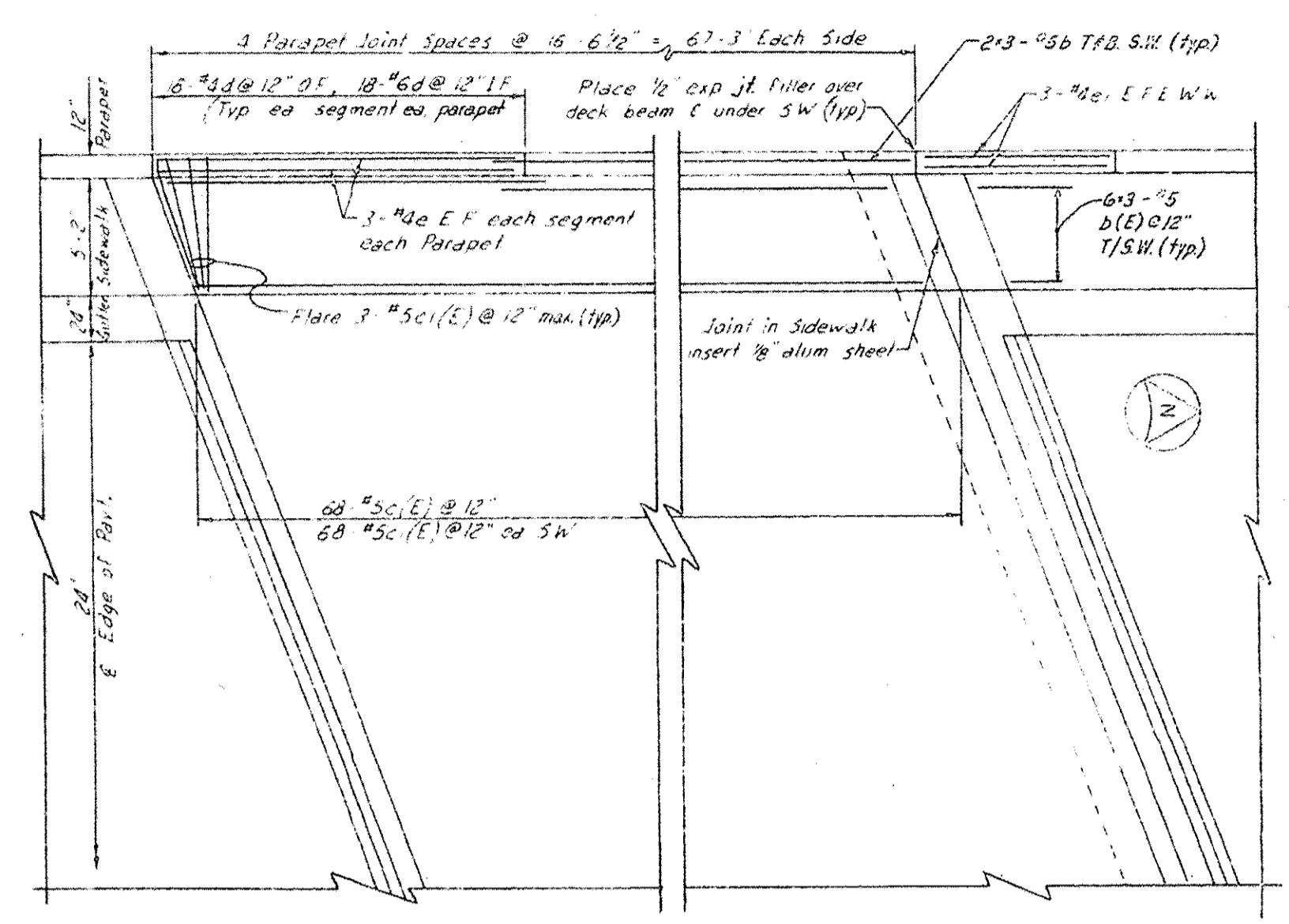
| | | | | |
|------------------------|------------------|-----------------|--------------|-----------|
| PAV. RTE. | VILLAGE SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 254B | 5 | DU PAGE | 35 | 19 |
| STA. 58+12.78 | TO STA. 58+63.39 | | | |
| PROJECT NO. M-5003(17) | | DRAWN BY F.G.M. | | |



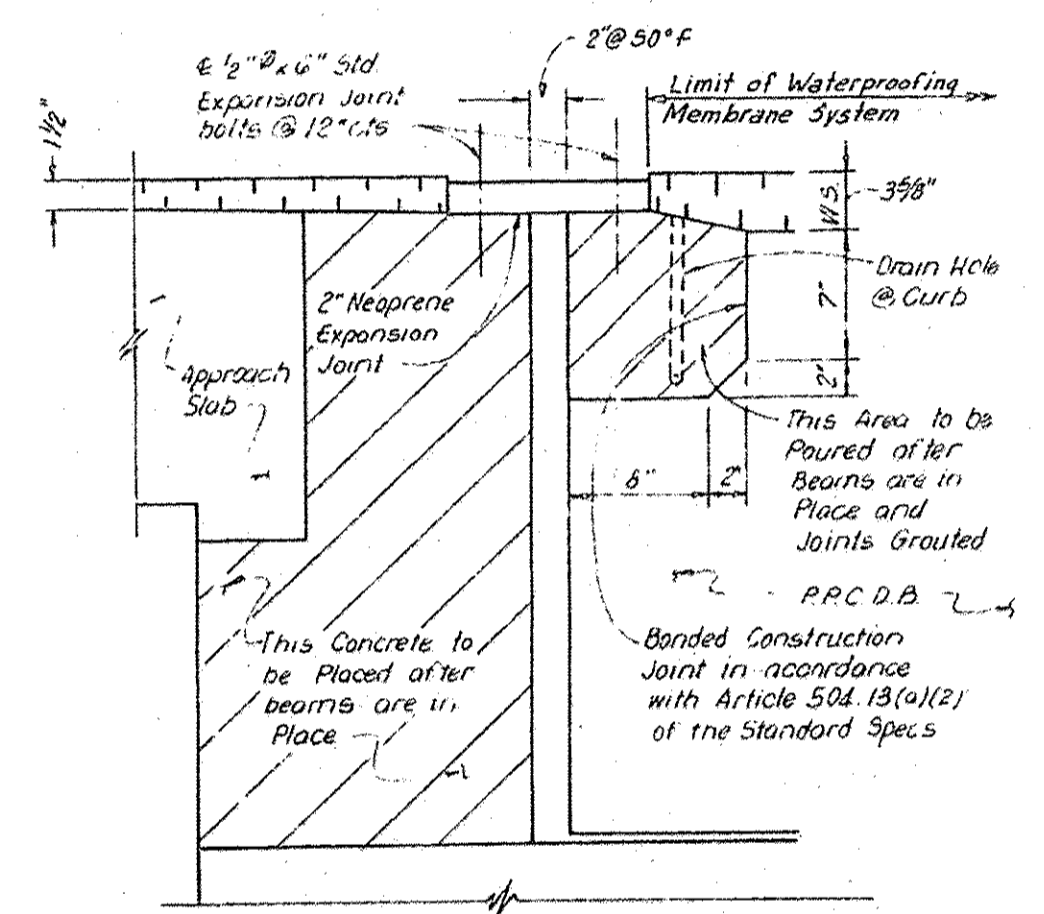
TYPICAL SECTION THRU PARAPET
1" = 1'-0"



SECTION THRU DRAIN - TYPICAL

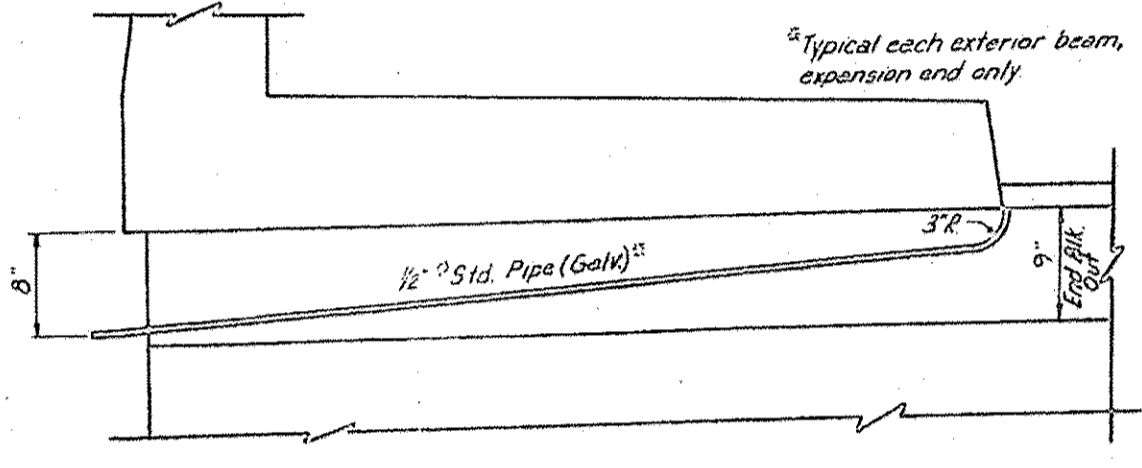


PLAN



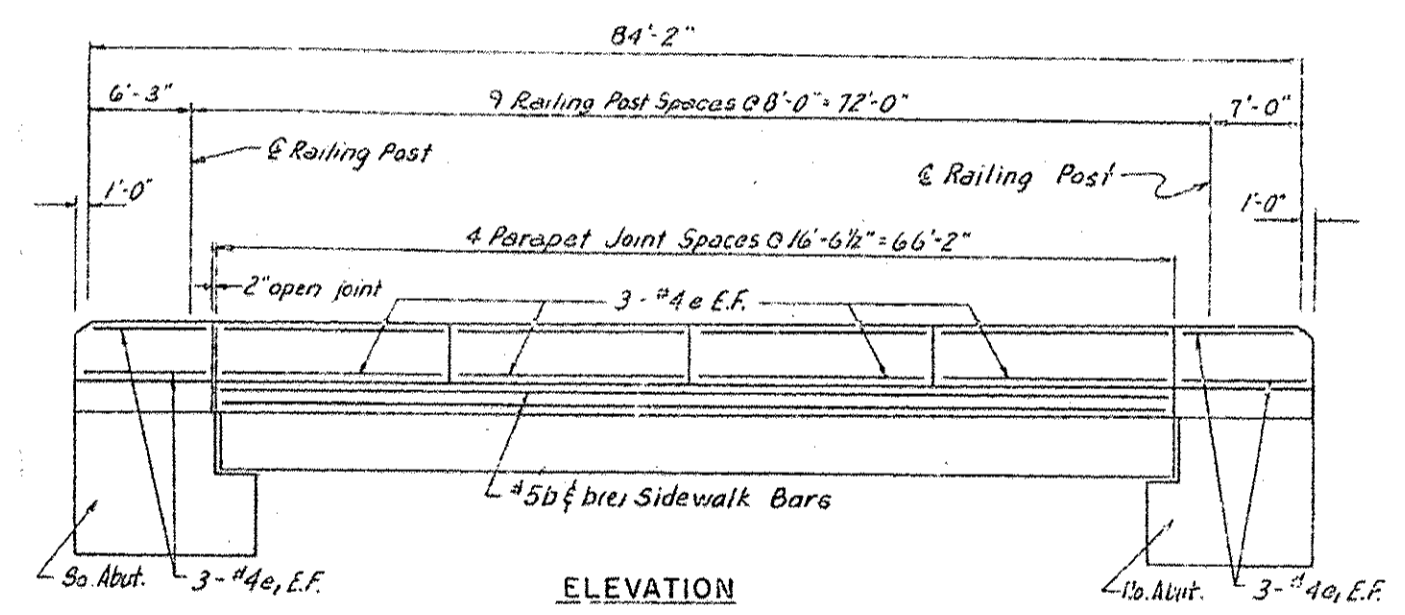
NOTE: Ends of Beams shall be aligned at the Expansion End. Any Linear variations in the Beam lengths shall be placed at the Fixed End.

EXPANSION JOINT DETAIL
SCALE: NONE



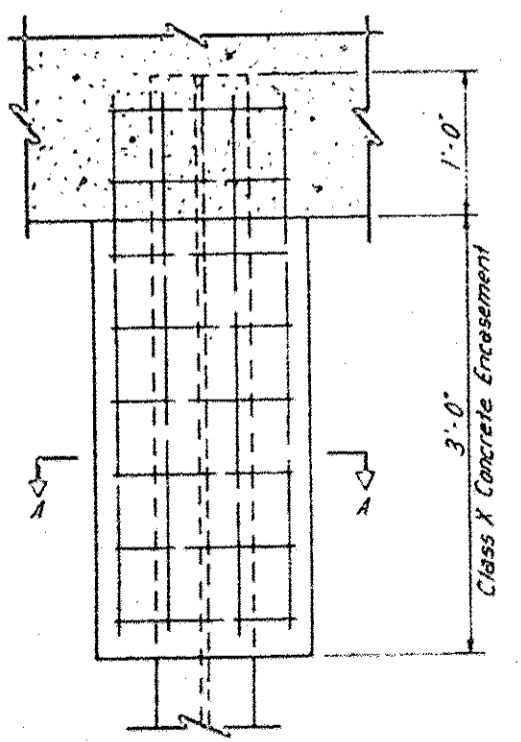
SECTION THRU END OF BEAM AT EXPANSION END

DRAIN DETAILS
1" = 10"



SIDEWALK AND PARAPET REINFORCEMENT
Not To Scale

| BILL OF MATERIALS (SUPERSTRUCTURE) | | |
|---|---------|-------|
| ITEM | UNIT | QUAN. |
| CLASS X CONCRETE | CU YD. | 41 |
| REINFORCEMENT BARS | LBS. | 1875 |
| REINFORCEMENT BARS (EPOXY COATED) | LBS. | 2020 |
| PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH) | SQ. FT. | 4304 |



PILE ENCASEMENT DETAIL

| BAR LIST (PARAPETS & SIDEWALK) | | | | |
|--------------------------------|-----|------|--------|-------|
| BAR | NO. | SIZE | LENGTH | SHAPE |
| b | 12 | #5 | 23'-3" | — |
| b(E) | 36 | #5 | 23'-3" | — |
| c(E) | 136 | #5 | 5'-9" | — |
| e | 48 | #4 | 16'-3" | — |

NOTES:
1. Bars designated (E) shall be Epoxy coated. (See Special Provisions)
2. Bars indicated as 20x2 etc. indicates twenty lines of bars with two lengths per line.

| REVISIONS | |
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| NAME | DATE |
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DEPARTMENT OF TRANSPORTATION
JEFFERSON STREET
WEST BRANCH DU PAGE RIVER
STATION 58+48
SUPERSTRUCTURE DETAILS
DATE 9-8-82
CHECKED BY F.G.M.

FOR INFORMATION ONLY

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LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

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| USER NAME = | DESIGNED - | REVISED - |
| FILE NAME = | CHECKED - | REVISED - |
| PLOT SCALE = | DRAWN - | REVISED - |
| PLOT DATE = | CHECKED - | REVISED - |

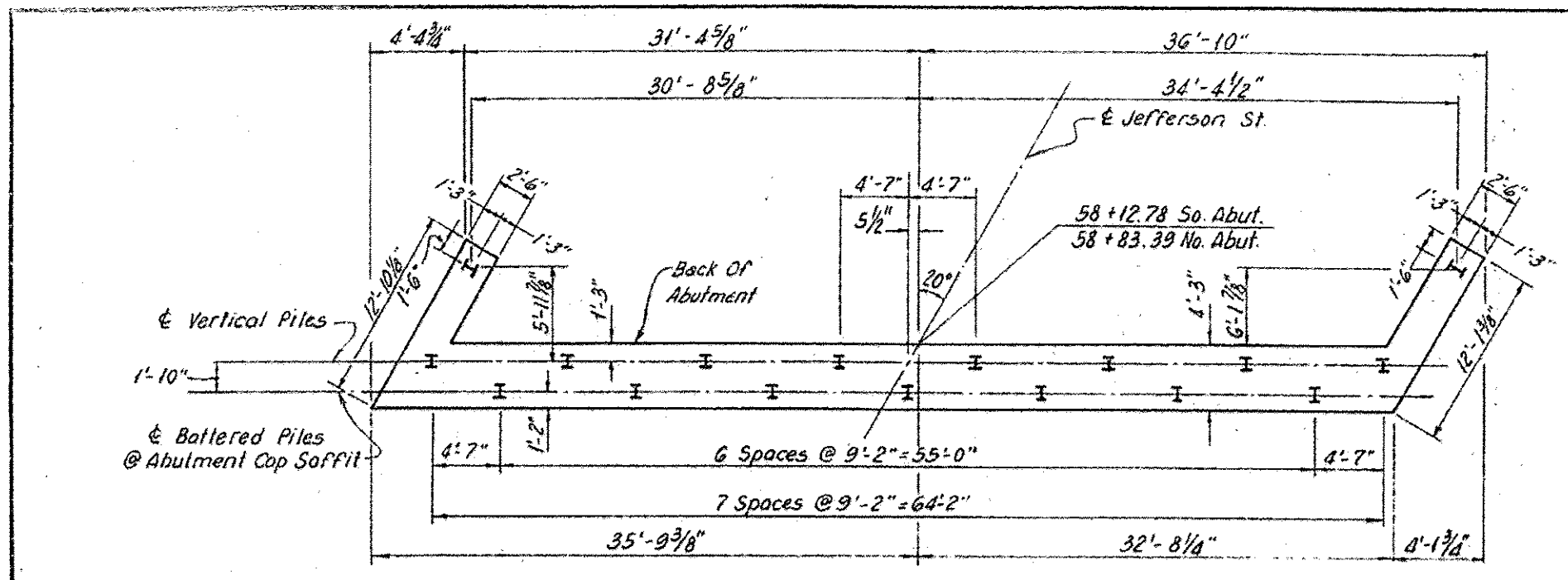
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN - SHEET NO.19
STRUCTURE NO. 022-7452

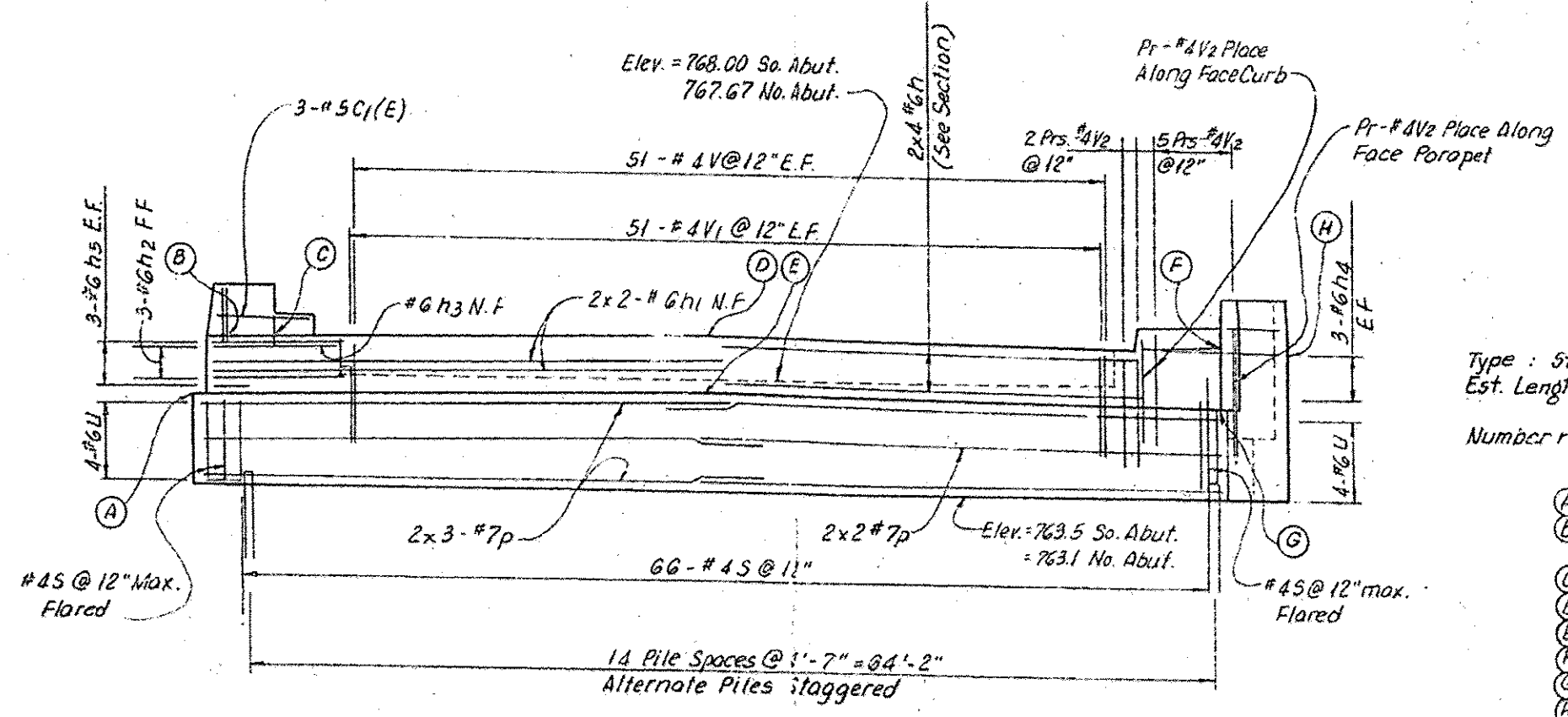
SHEET NO. S-12 OF 15 SHEETS

| | | | | |
|--------------------|----------------|---------|---------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-5P | DU PAGE | 99 | 79 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

| | | | | |
|--------------------------------------|------------------|---------|--------------------|-----------|
| FED. AID PROJECT NO. | DU PAGE | COUNTY | TOTAL SHEETS | SHEET NO. |
| 254B | 35 | DU PAGE | 99 | 80 |
| STA. 58+12.78 | TO STA. 58+83.39 | | CONTRACT NO. 61D62 | |
| DRAWN BY: F.G.M. PROJECT: MI-5003117 | | | | |



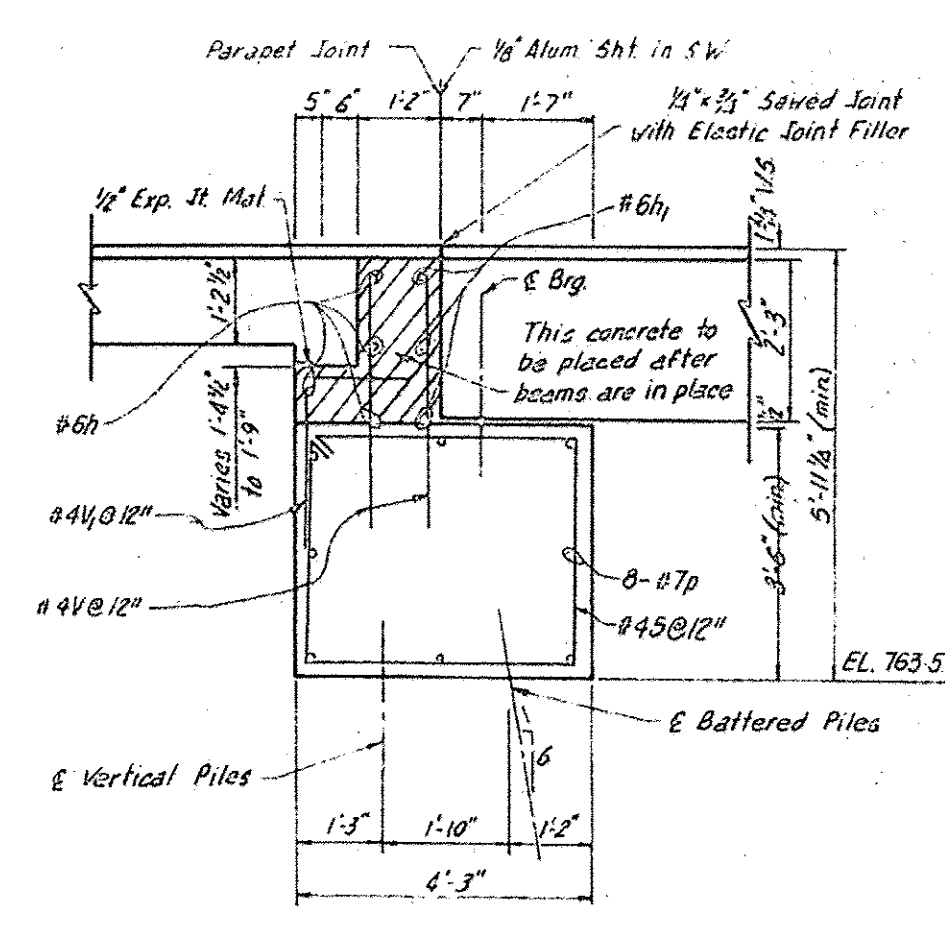
**FOOTING AND PILE LAYOUT
PLAN - NORTH & SOUTH ABUTMENTS**
1/4" = 1'-0"



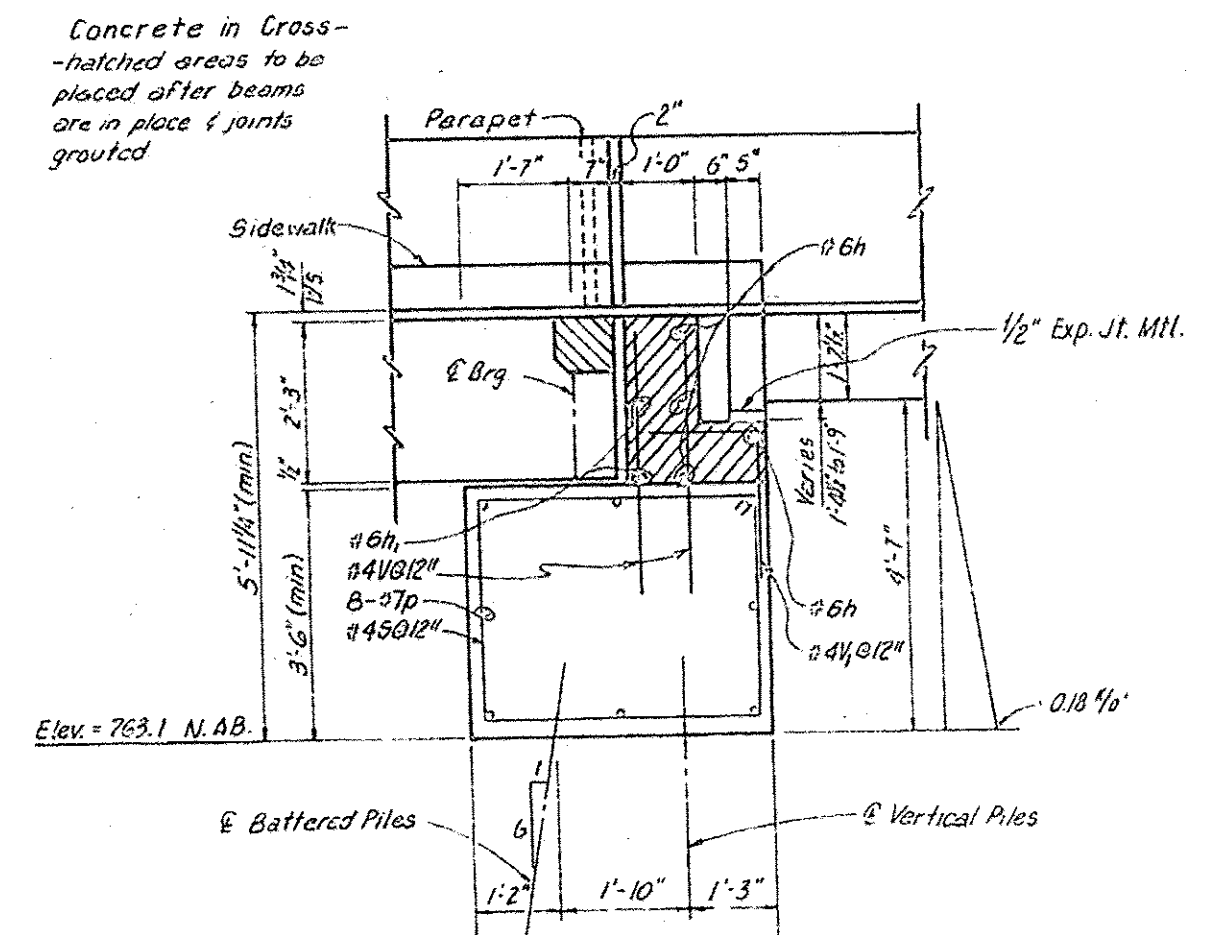
ELEVATION - NORTH & SOUTH ABUTMENTS
1/4" = 1'-0"

PILE DATA
Type: Steel HP 8x36 capacity Driven to refusal.
Est. Length: 63' (North Abutment)
60' (South Abutment)
Number required: 34

(A) # 8rg. Lt. E.D. So. Abut. El. = 767.10 / No. Abut. = 766.75
(B) Lt. Inside Face Parapet, T/Sy. Abut. BK W/ El. = 768.41
T/No. Abut. BK. W/ El. = 769.04
(C) End Lt. W.W. So. Abut. El. = 769.46 / No. Abut. El. = 769.00
(D) # Jefferson St. T/Sy. Abut. BK W/ El. = 769.84 / T/No. Abut. BK W/ El. = 769.47
(E) # Jefferson St. # 8rg. So. Abut. El. = 767.54 / No. Abut. El. = 767.19
(F) Rt. Inside T/Sy. Abut. BK W/ El. = 769.29 / T.No. Abut. BK W/ El. = 768.92
(G) # 8rg. Rt. E.D. So. Abut. El. = 766.98 / No. Abut. El. = 766.62
(H) End Rt. W.W. So. Abut. El. = 769.34 / No. Abut. 768.88

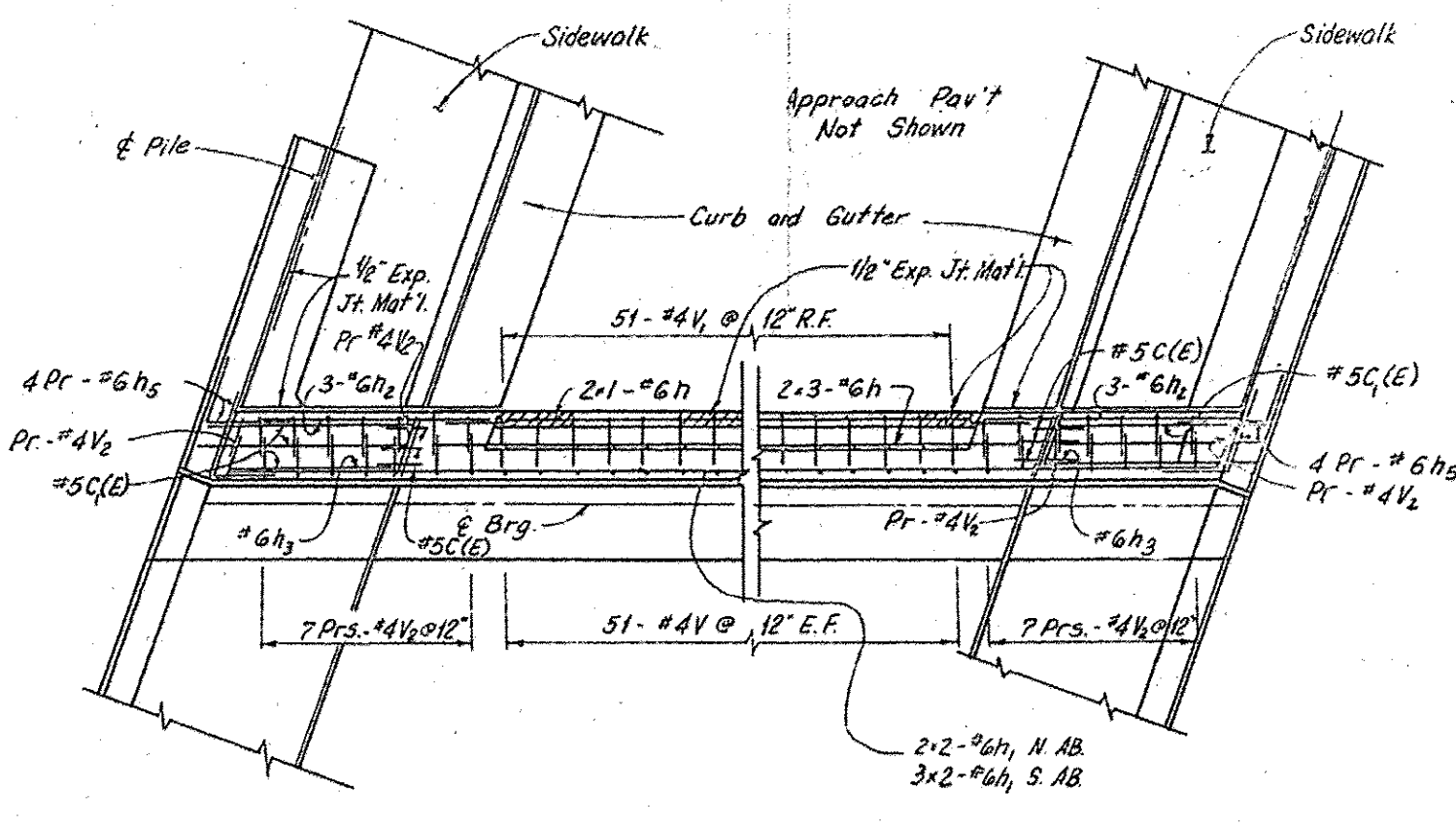


FIXED ABUTMENT
1/2" = 1'-0"

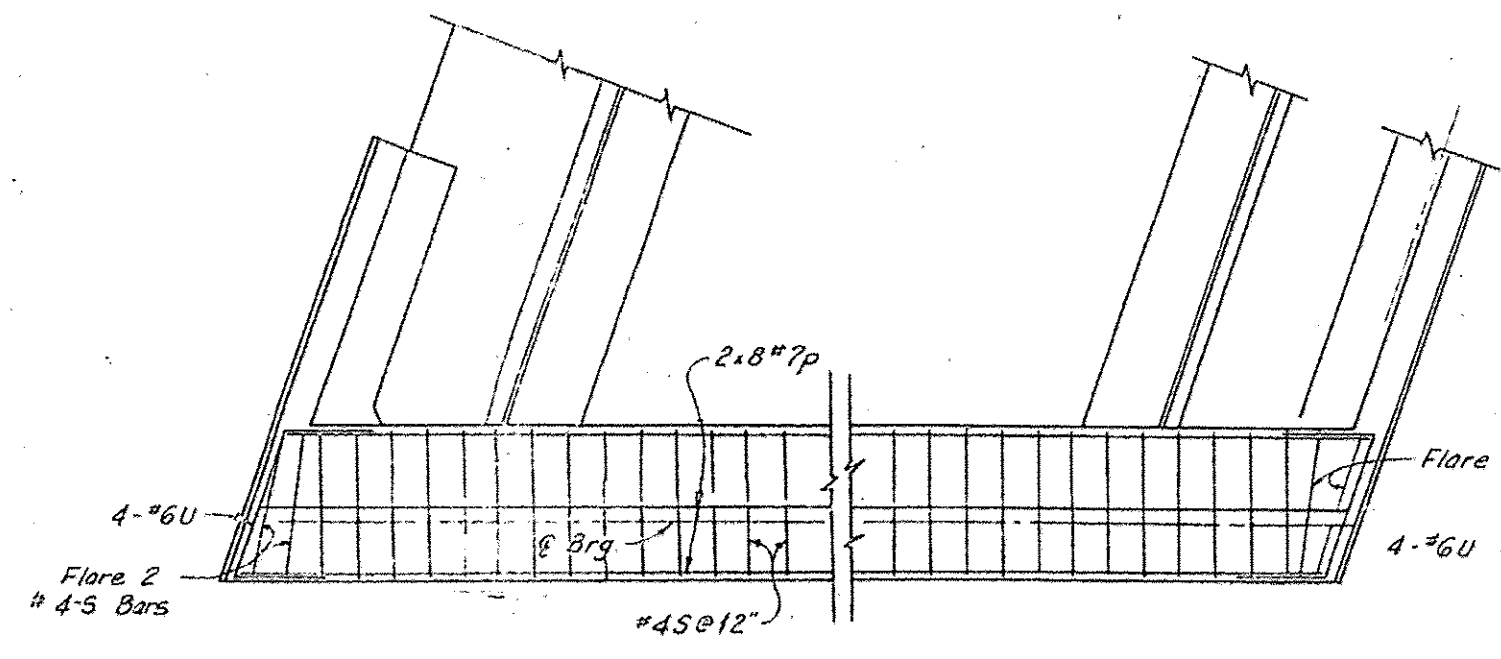


EXPANSION ABUTMENT
1/2" = 1'-0"

TYPICAL SECTIONS THRU ABUTMENT



ABUTMENT BACKWALL BAR DETAILS
1/4" = 1'-0"



ABUTMENT CAP BAR DETAILS
1/4" = 1'-0"

| BAR | NO. | SIZE | SHAPE |
|------|-----|------|--------|
| C(E) | 12 | 0.5 | 2'-4" |
| C(E) | 12 | 0.5 | 5'-9" |
| h | 16 | 0.6 | 28'-0" |
| h1 | 10 | 0.6 | 34'-0" |
| h2 | 12 | 0.6 | 7'-3" |
| h3 | 2 | 0.6 | 5'-6" |
| V | 204 | 0.4 | 3'-7" |
| V | 102 | 0.4 | 3'-10" |
| 1/2 | 72 | 0.4 | 5'-6" |
| S | 140 | 0.4 | 14'-9" |
| U | 16 | 0.6 | 9'-2" |
| P | 32 | 0.7 | 35'-5" |

NOTE: Bars designated thus 20x2-etc indicates twenty lines of bars with two lengths per line.

| NAME | DATE |
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DEPARTMENT OF TRANSPORTATION
JEFFERSON STREET
WEST BRANCH DU PAGE RIVER
STATION 58+48
ABUTMENT DETAILS
DATE 9-9-82
CHECKED BY F.G.M.

FOR INFORMATION ONLY

LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

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| USER NAME = | DESIGNED - | REVISED - |
| FILE NAME = | CHECKED - | REVISED - |
| PLOT SCALE = | DRAWN - | REVISED - |
| PLOT DATE = | CHECKED - | REVISED - |

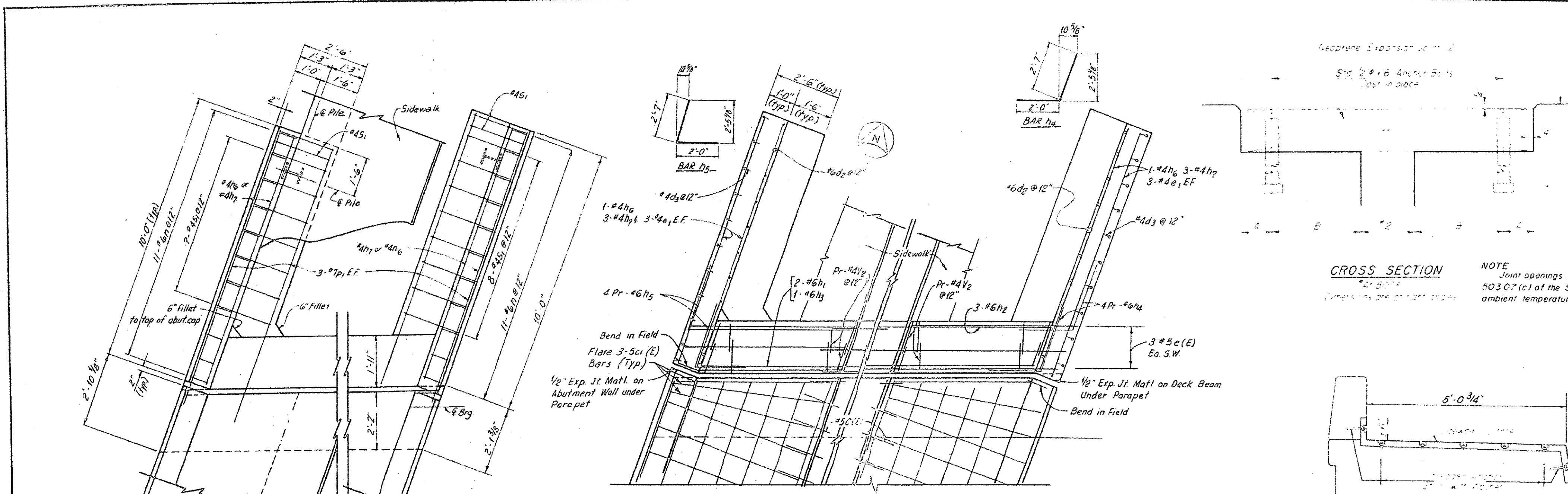
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN - SHEET NO.20
STRUCTURE NO. 022-7452

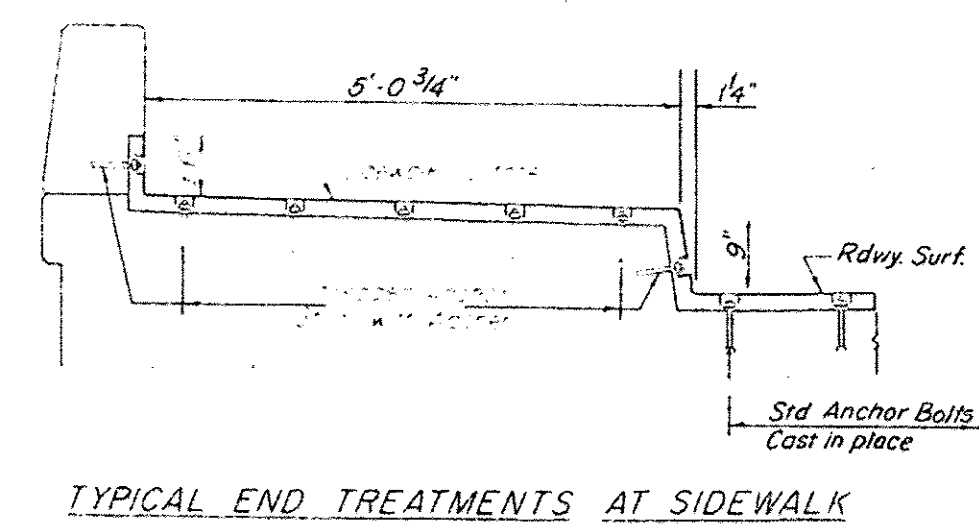
SHEET NO. S-13 OF 15 SHEETS

| | | | | |
|---------------------------|----------------|---------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SF | DU PAGE | 99 | 80 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 61D62 | |

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|----------------|-----------------|------------------|--------------|-----------|
| FAU RTE | VILLAGE SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 254B | 5 | DU PAGE | 35 | 21 |
| STA. 58+12.78 | | TO STA. 58+83.39 | | |
| 74-00016-00-WR | | | | |



CROSS SECTION
 NOTE
 Joint openings shall be adjusted in accordance with Article 503.07(c) of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

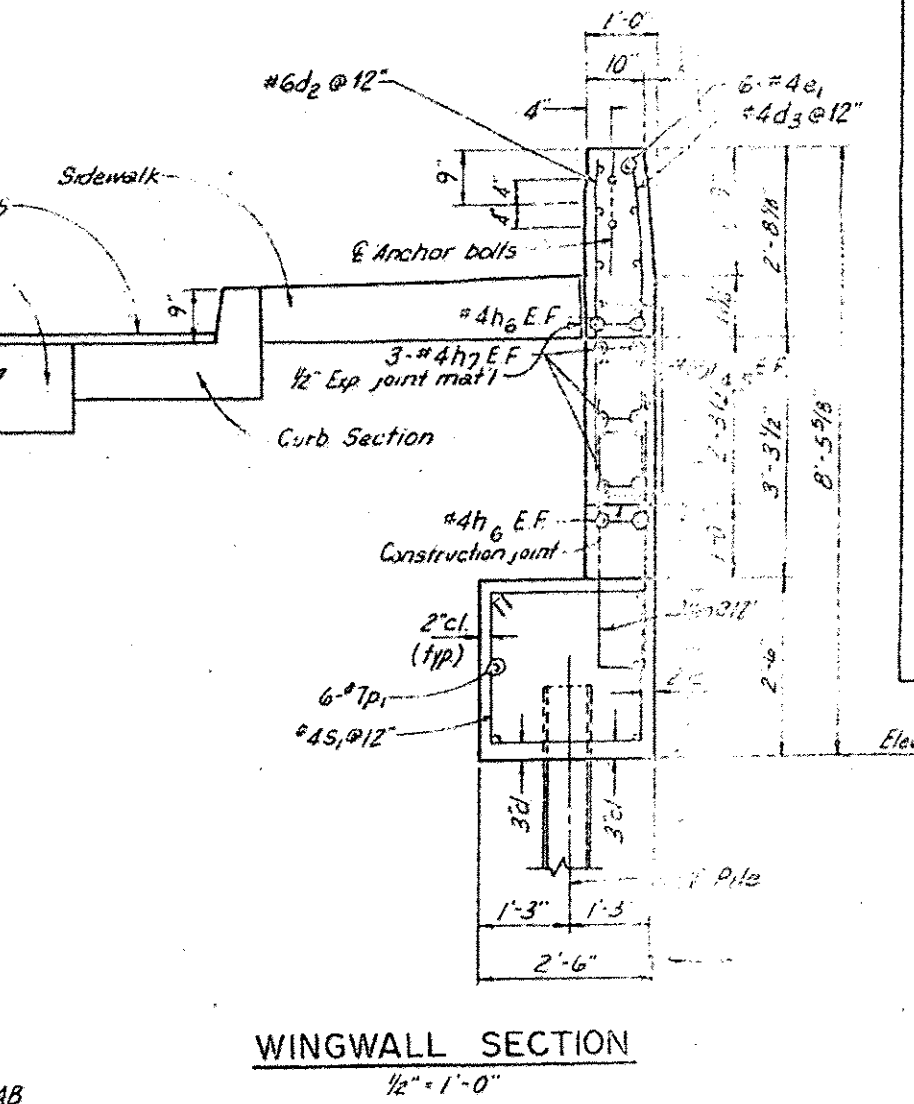
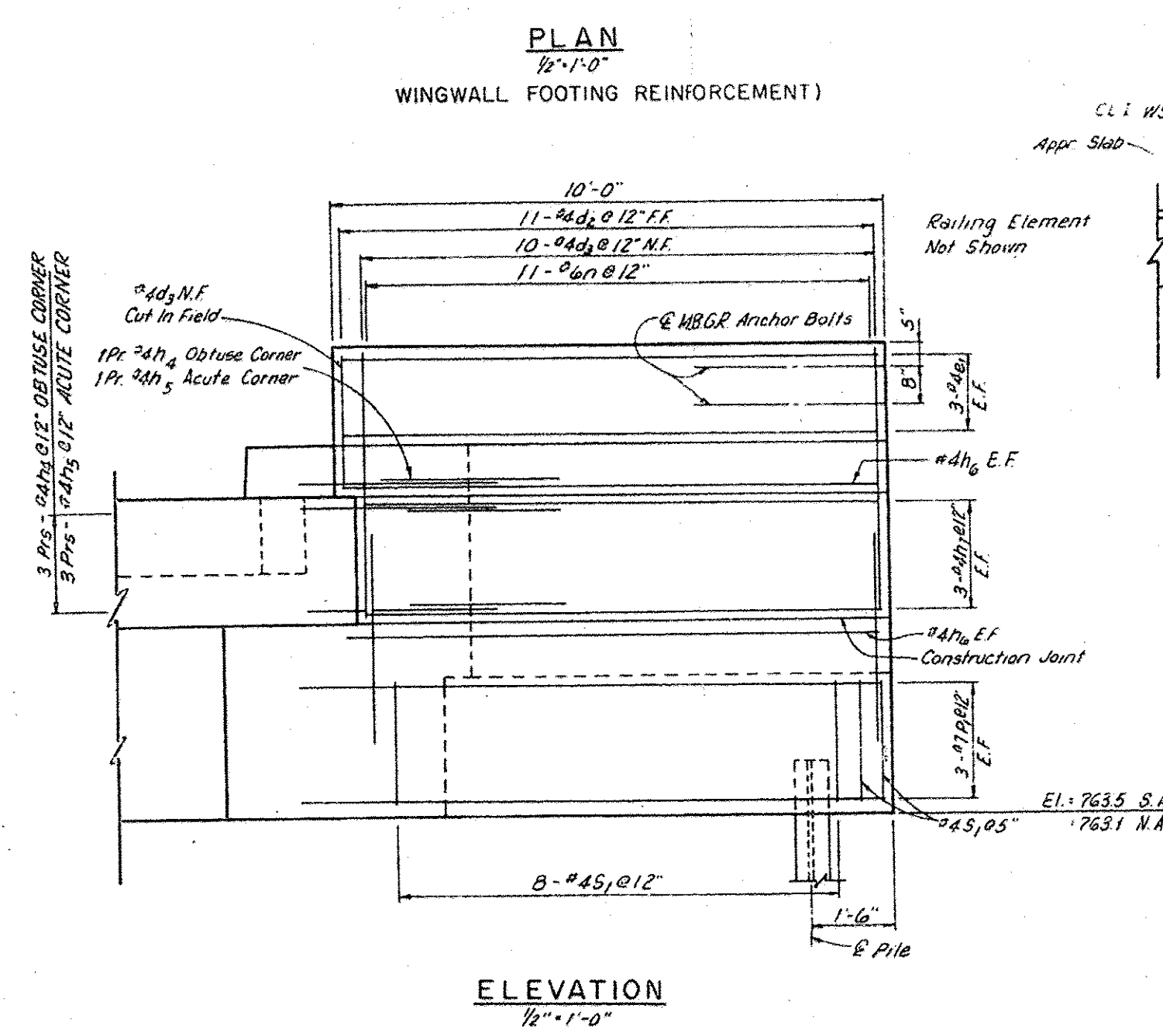


ALTERNATE NEOPRENE EXPANSION JOINTS (2")
 (See Special Provisions)

| Make | Supplier | Blockout Dimensions |
|---------------------------------|--------------------------------|------------------------------------|
| TRANSFIL EX, MODEL 2004 | General Tire Company | T = 1 3/8", A = 1/8", B = 3 5/8" |
| SPAN, MODEL T-20 | Fel-Pro Building Products Inc. | T = 1 3/8", A = 2/4", B = 2 13/16" |
| WARG ELASTODAM, TYPE 300 | Watson Bowmar Associates, Inc. | T = 1 3/8", A = 2/4", B = 2 13/16" |
| WARG ELASTODAM, TYPE III S.B.C. | Watson Bowmar Associates, Inc. | T = 1 3/8", A = 1/8", B = 2 3/4" |
| WARG ELASTODAM, TYPE 25 | Structural Accessories, Inc. | T = 1 3/8", A = 1/8", B = 2 3/8" |

BAR LIST (WINGWALLS)

| BAR | NO. | SIZE | LENGTH | SHAPE |
|----------------|-----|------|--------|-------|
| d ₂ | 44 | #6 | 4'-10" | — |
| d ₃ | 42 | #4 | 4'-10" | — |
| e | 24 | #4 | 9'-8" | — |
| h ₄ | 16 | #6 | 4'-7" | — |
| h ₅ | 16 | #6 | 4'-7" | — |
| h ₆ | 16 | #4 | 9'-8" | — |
| h ₇ | 24 | #4 | 9'-4" | — |
| n | 44 | #6 | 8'-4" | — |
| p ₁ | 24 | #7 | 10'-8" | — |
| s ₁ | 36 | #4 | 9'-3" | — |



BILL OF MATERIALS

| | |
|--------------------------------|-------------|
| NEOPRENE EXPANSION JOINTS (2") | 69 LIN. FT. |
|--------------------------------|-------------|

REVISIONS

| NAME | DATE |
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DEPARTMENT OF TRANSPORTATION
 JEFFERSON STREET
 WEST BRANCH DU PAGE RIVER
 STATION 58+48
**WINGWALL AND NEOPRENE
 EXPANSION JOINT DETAILS**
 DATE 9-8-82
 CHECKED BY FGM

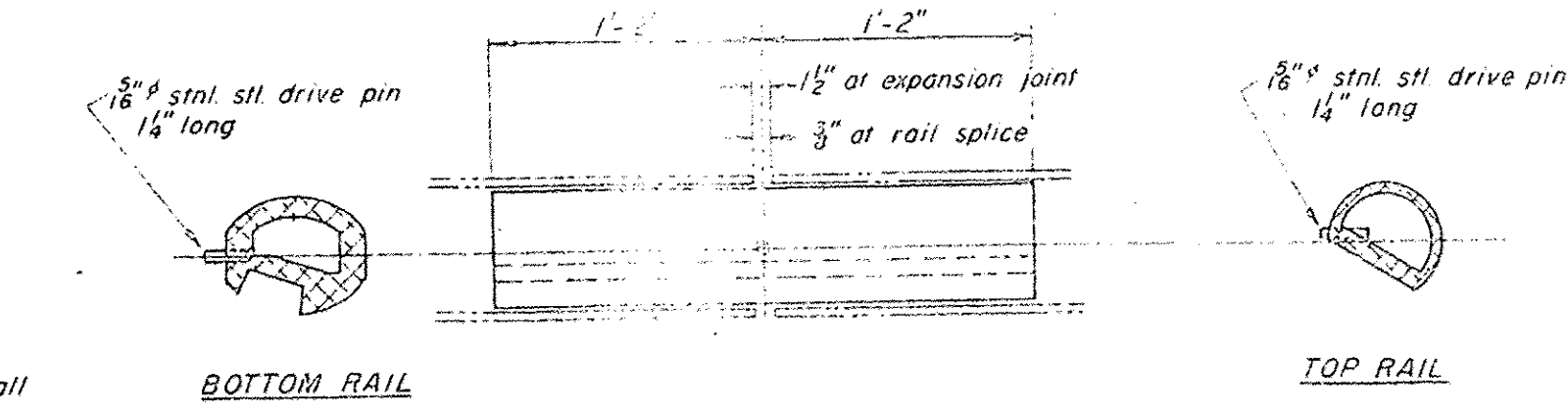
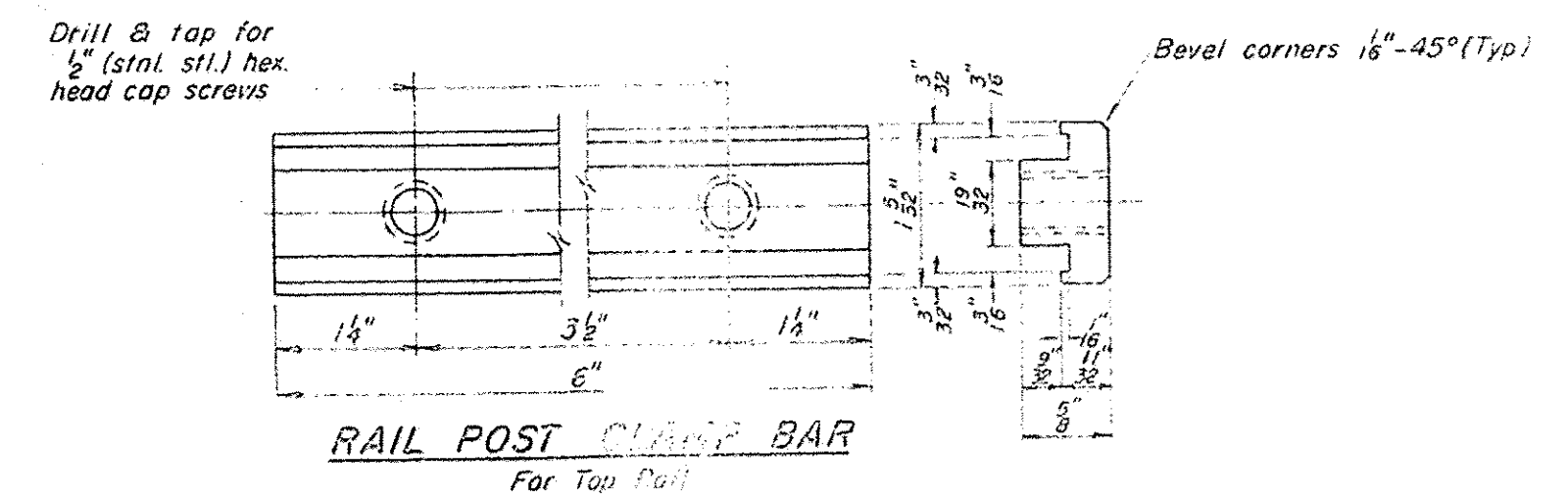
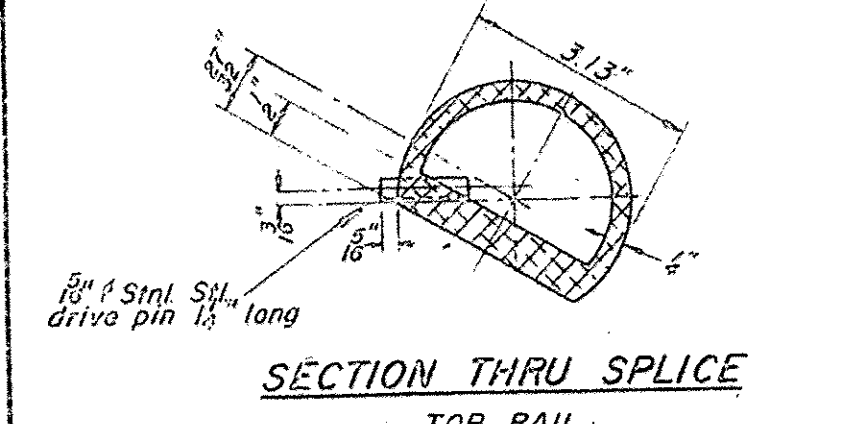
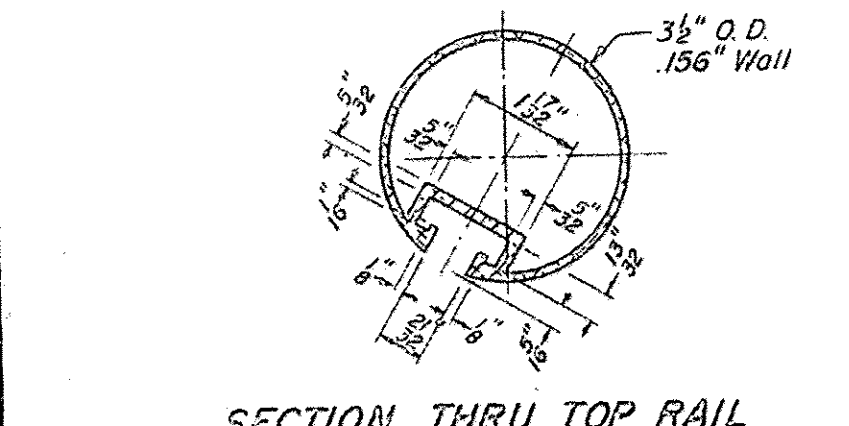
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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|--------------|-----------------|-----------------------------|--------------|-----------|
| RD. SITE NO. | VILLAGE SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 2548 | W | DU PAGE | 35 | 22 |
| STA 58+12.78 | | TO STA 58+83.39 | | |
| ILLINOIS | | FED. AID PROJECT M 5003(17) | | |

* 74-00006-00-WR



NOTES:

All Posts shall be normal to parapet.

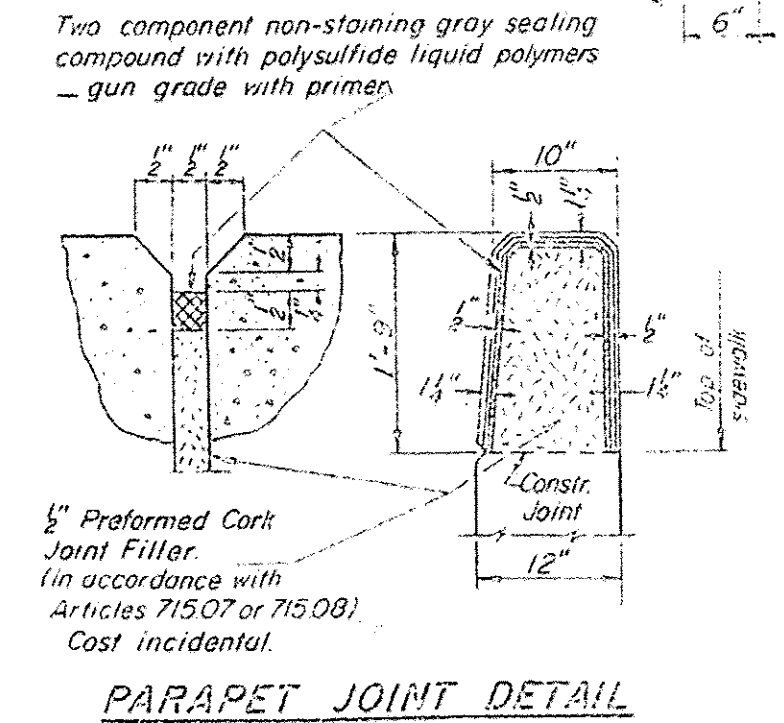
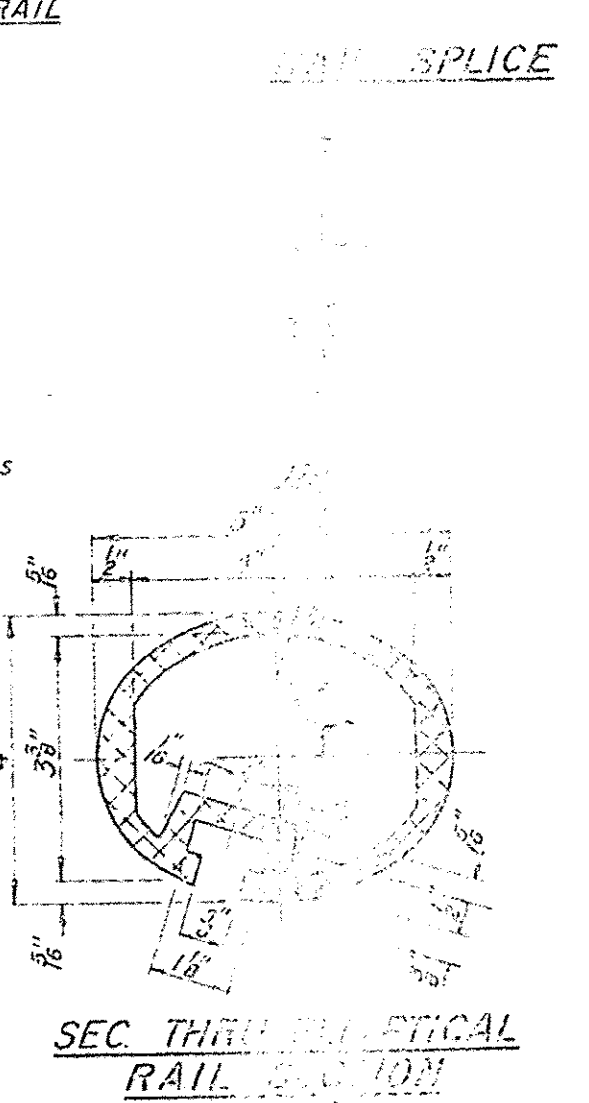
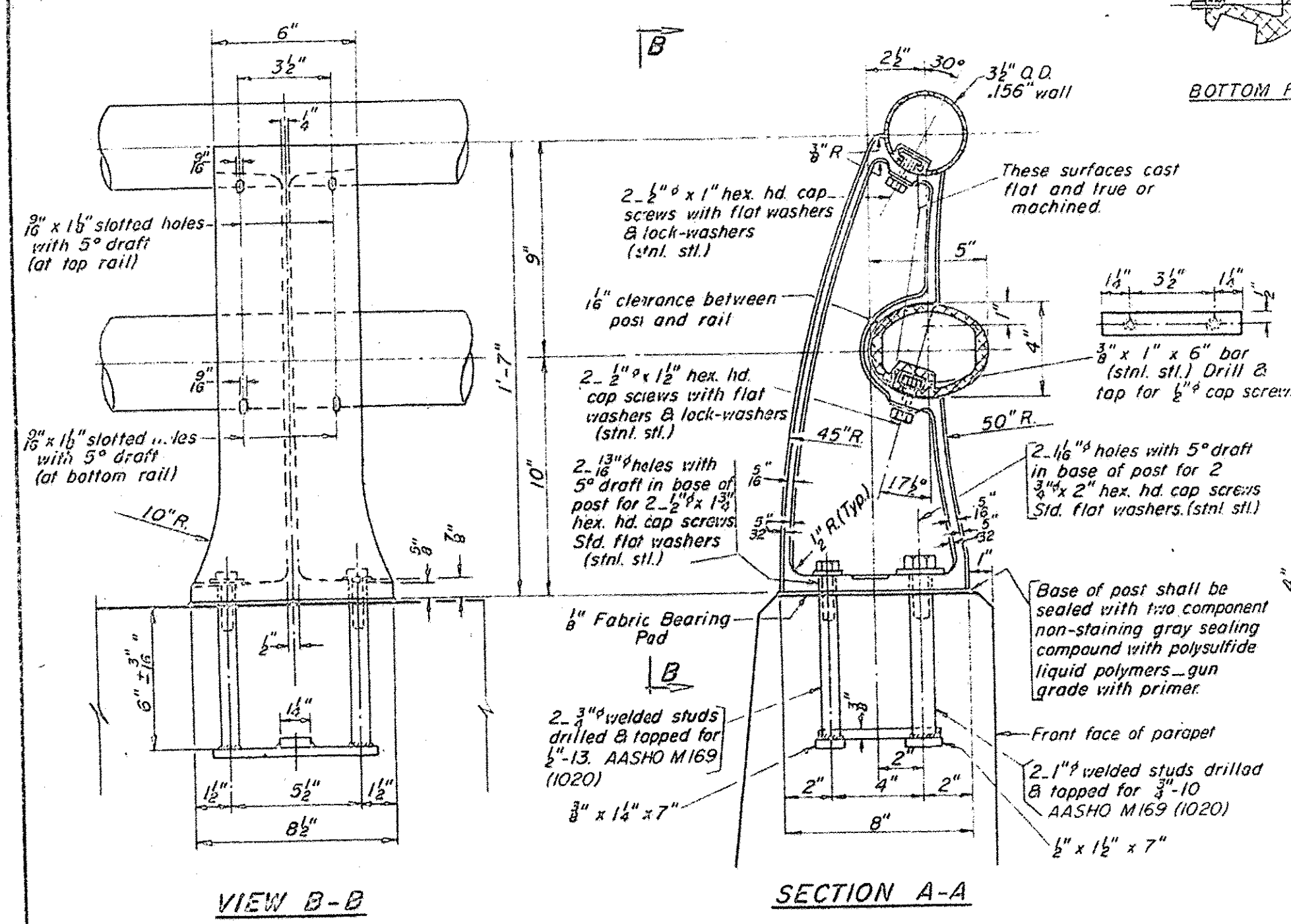
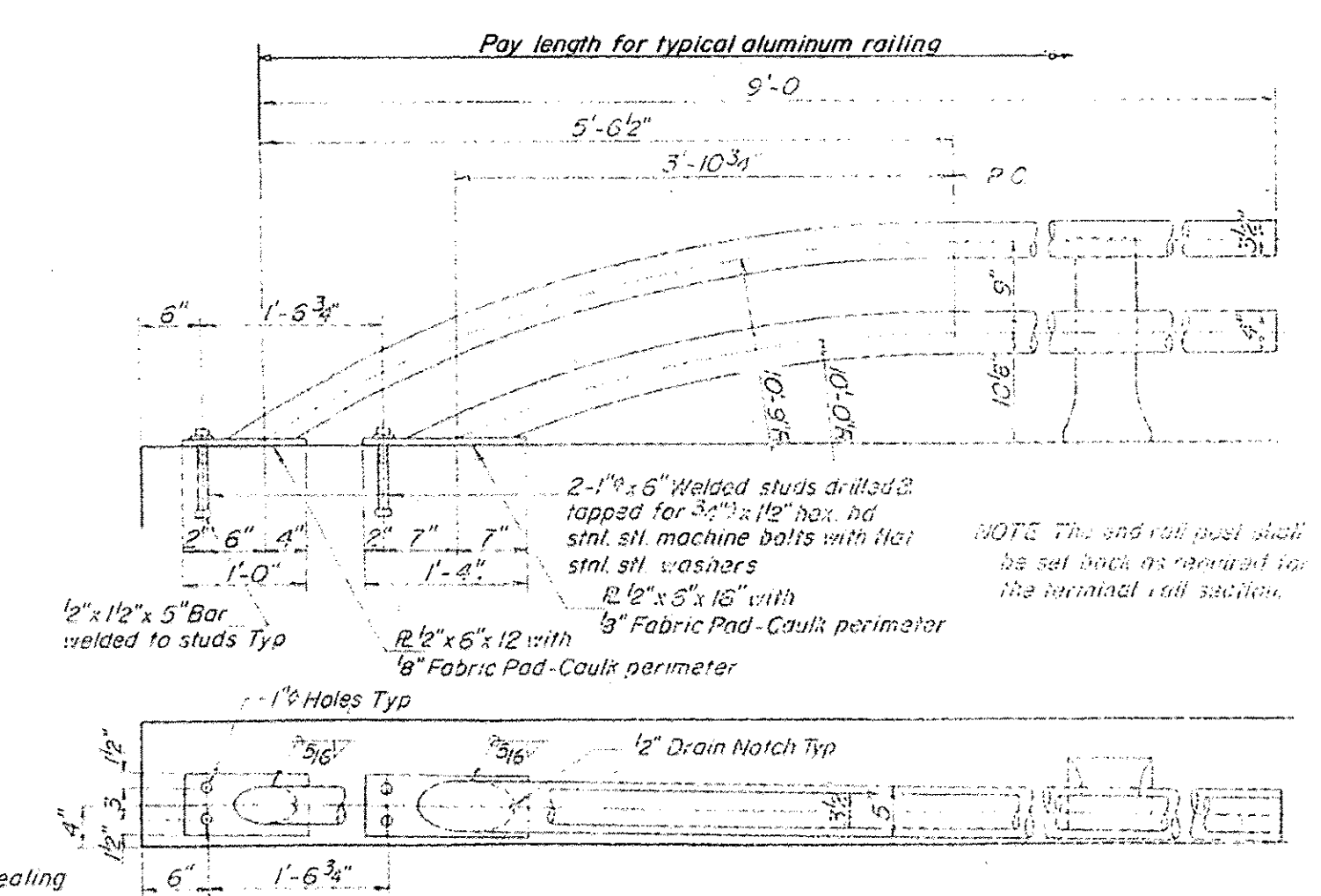
All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2500 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail.

Provide 1-1/8" and 2-1/8" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to grade - high spots shall be ground and low spots shimmed.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for ALUMINUM RAILING, TYPE L.

Aluminum alloy rail shall conform to ASTM B 221 alloy 6061-T5 or 6351-T5 with min. yield 35 ksi, min. tensile 50 ksi, and elongation of 10% in 2 inches.



BILL OF MATERIALS

| Item | Unit | Quantity |
|--------------------------|----------|----------|
| ALUMINUM RAILING, TYPE L | LIN. FT. | 171.1 |

DEPARTMENT OF TRANSPORTATION
JEFFERSON STREET
WEST BRANCH DUPAGE RIVER
STATION 58+48
ALUMINUM RAILING DETAILS
DATE 9-8-82
CHECKED BY E.G.M.

REVISIONS

| NAME | DATE |
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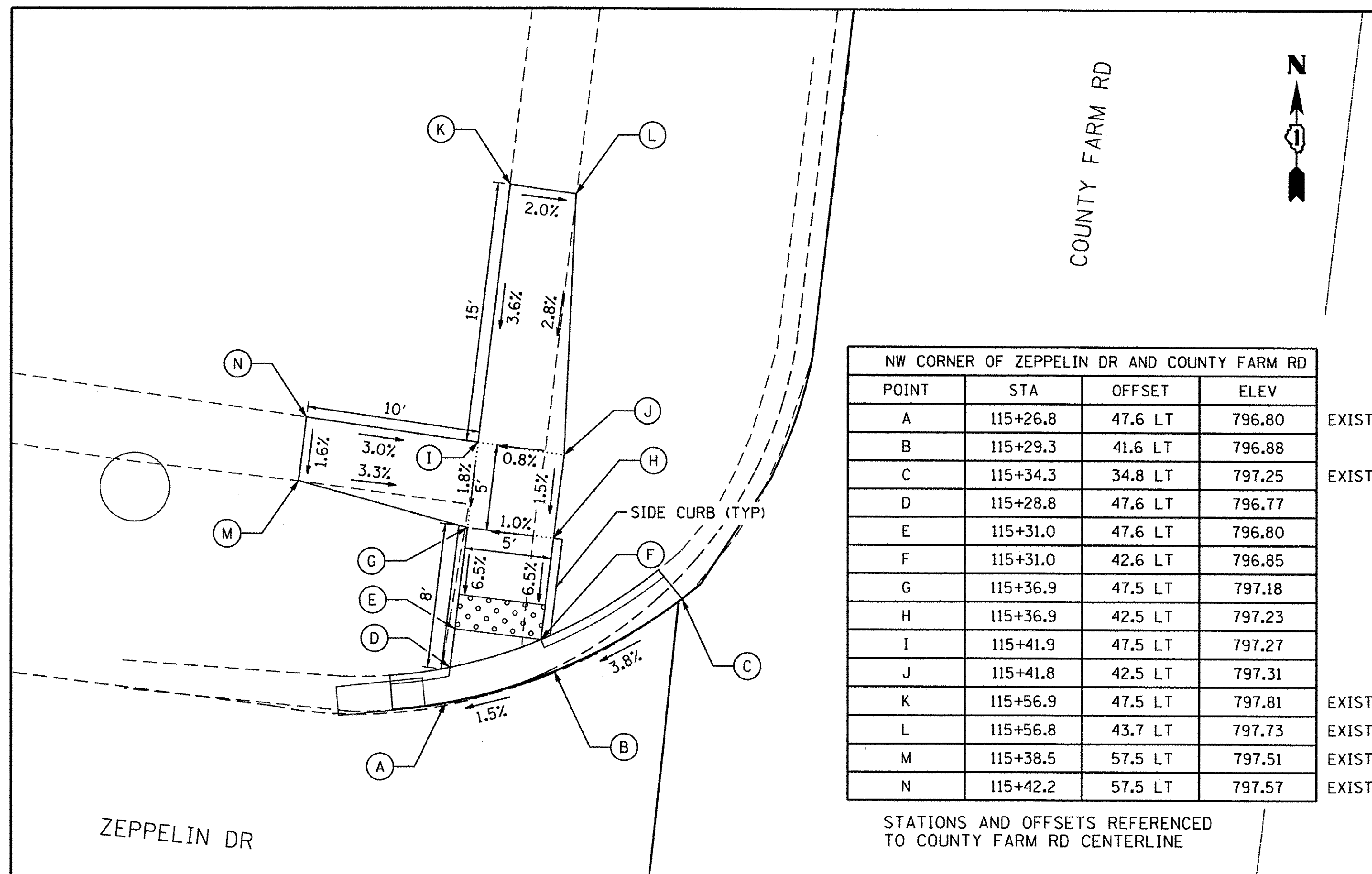
RAIL POST DETAILS

| | | |
|----------|----------|----|
| DESIGNED | EXAMINED | 19 |
| CHECKED | PASSED | |
| DRAWN | APPROVED | |
| CHECKED | | |

R-20 8-30-80

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FOR INFORMATION ONLY



STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE

BENCHMARK DESCRIPTIONS AND USES

| BM | DESCRIPTION | ELEVATION | NOTES |
|-------|---|-----------|--|
| TBM A | SE BOLT OF FHYD AT SW CORNER OF COUNTY FARM RD AND SWINFORD RD | 809.39 | TO BE USED FOR CONSTRUCTION OF ADA RAMPS AT SWINFORD RD AND COUNTY FARM RD ONLY |
| TBM B | WEST MOST NORTHERN BOLT OF FHYD AT NE CORNER OF ARLINGTON DR AND COUNTY FARM RD | 814.65 | TO BE USED FOR CONSTRUCTION OF ADA RAMPS AT ARLINGTON DR AND COUNTY FARM RD ONLY |
| TBM C | NW BOLT OF FHYD AT NW CORNER OF DUNAMON DR AND COUNTY FARM RD | 816.69 | TO BE USED FOR CONSTRUCTION OF ADA RAMPS AT DUNAMON DR AND COUNTY FARM RD ONLY |
| TBM D | SE BOLT OF TRAFFIC SIGNAL MAST ARM AT THE SW CORNER OF GREENBROOK BLVD AND COUNTY FARM RD | 807.87 | TO BE USED FOR CONSTRUCTION OF ADA RAMPS AT GREENBROOK BLVD AND COUNTY FARM RD, BP GAS STATION ENTRANCE, GREENBROOK COMMONS PLAZA ENTRANCE AND WALGREENS ENTRANCE ONLY |
| TBM E | SQUARE CUT IN THE SW CORNER OF UTILITY BOX FOOTING AT THE NE CORNER OF SUNSET DR AND COUNTY FARM RD | 780.74 | TO BE USED FOR CONSTRUCTION OF ADA RAMPS AT SUNSET DR AND COUNTY FARM RD ONLY |
| TBM F | NORTH MOST EASTERN BOLT OF FHYD AT NW CORNER OF STAIRWAY DR AND COUNTY FARM RD | 771.62 | TO BE USED FOR CONSTRUCTION OF ADA RAMPS AT STAIRWAY DR AND COUNTY FARM RD ONLY |
| TBM G | EAST MOST SOUTHERN BOLT OF FHYD AT SW CORNER OF LAWRENCE AVE AND COUNTY FARM RD | 810.98 | TO BE USED FOR CONSTRUCTION OF ADA RAMPS AT LAWRENCE AVE AND COUNTY FARM RD ONLY |
| TBM H | EAST MOST SOUTHERN BOLT OF FHYD AT SW CORNER OF DEFOREST LN AND COUNTY FARM RD | 803.26 | TO BE USED FOR CONSTRUCTION OF ADA RAMPS AT DEFOREST LN AND COUNTY FARM RD ONLY |
| TBM I | SOUTH MOST WESTERN BOLT OF FHYD AT NE CORNER OF ZEPPELIN DR AND COUNTY FARM RD | 799.42 | TO BE USED FOR CONSTRUCTION OF ADA RAMPS AT ZEPPELIN DR AND COUNTY FARM RD ONLY |

NOTE:
SIDE CURB SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WORK SHALL BE DONE PER THE APPLICABLE HIGHWAY STANDARDS (424).

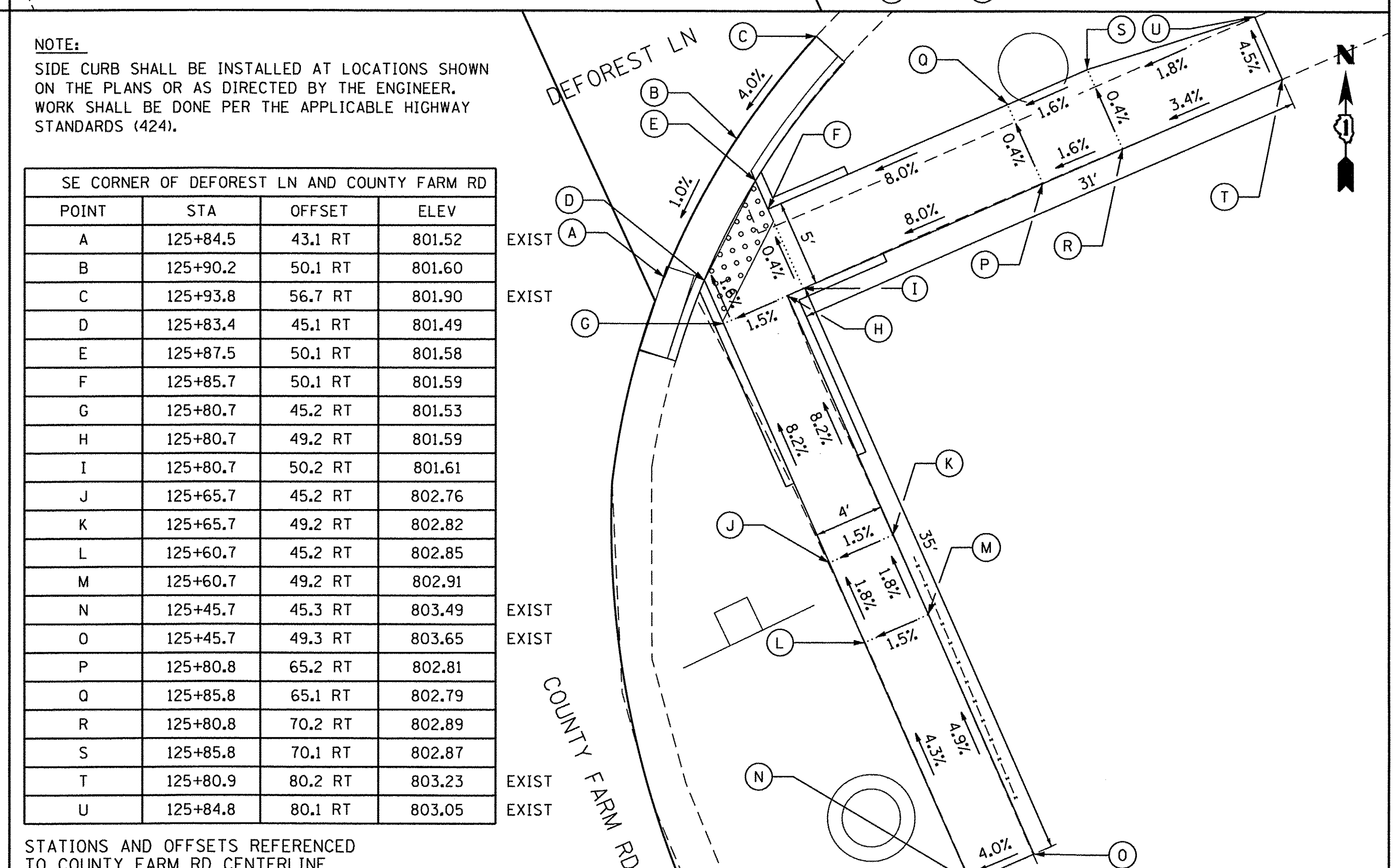
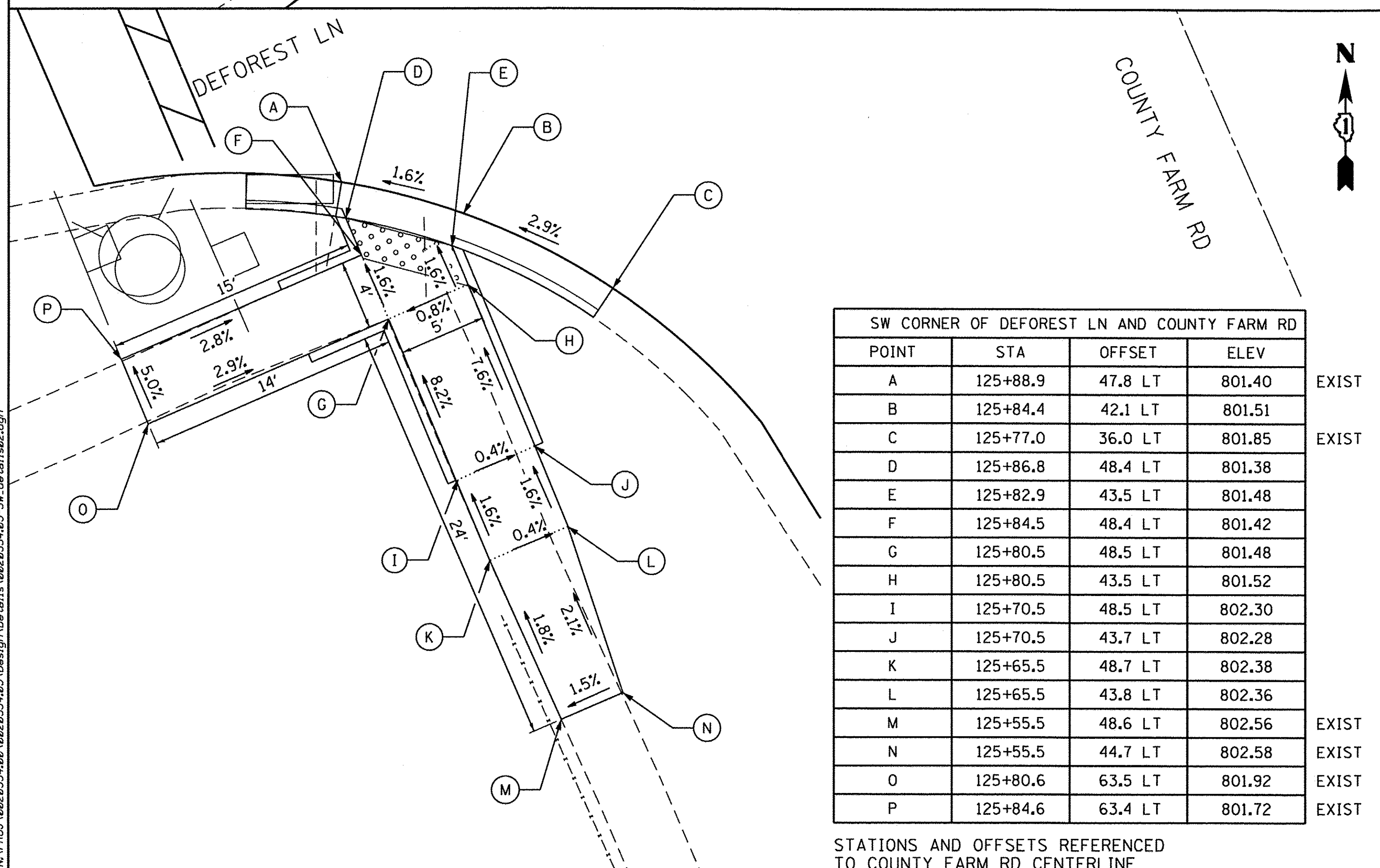
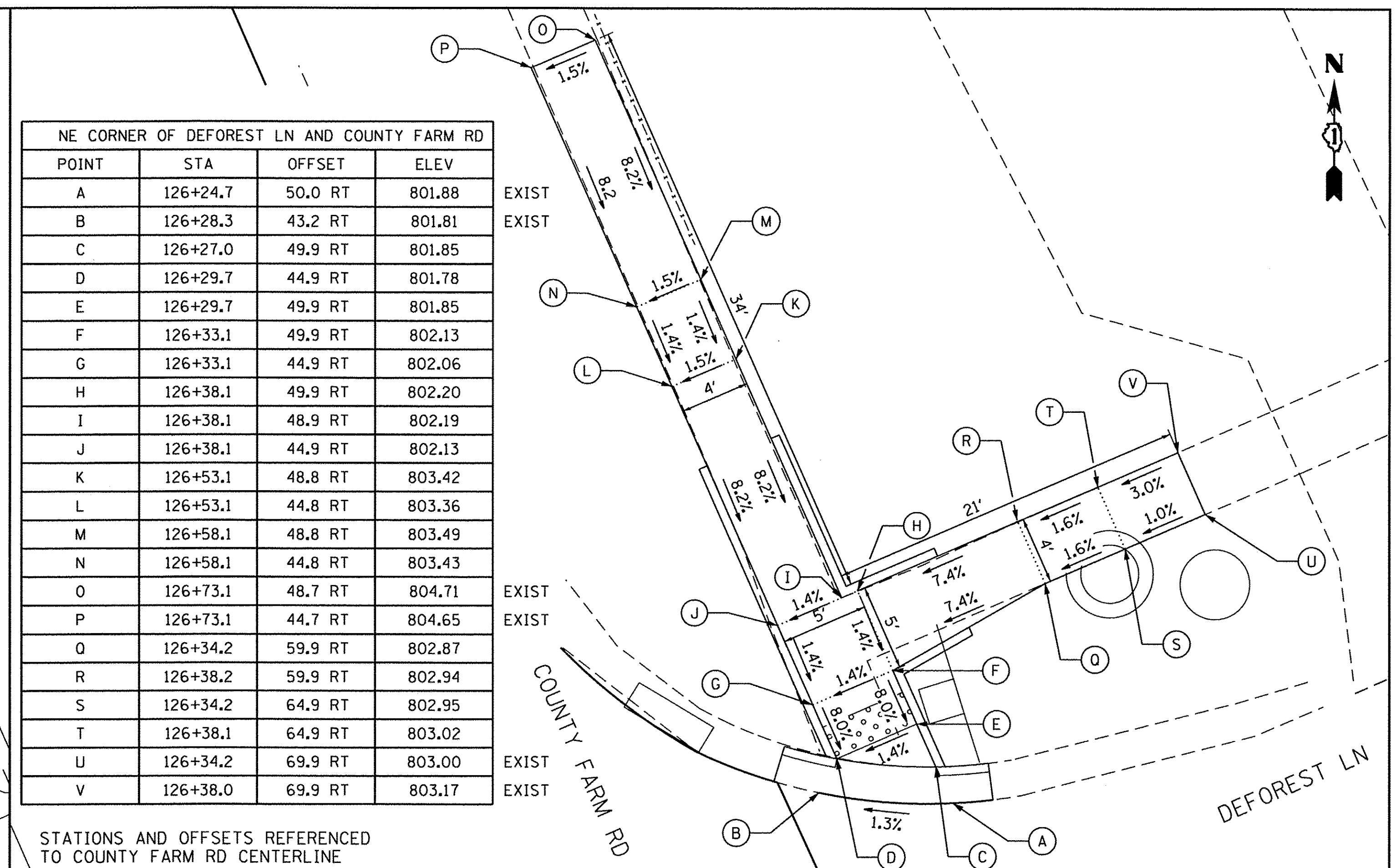
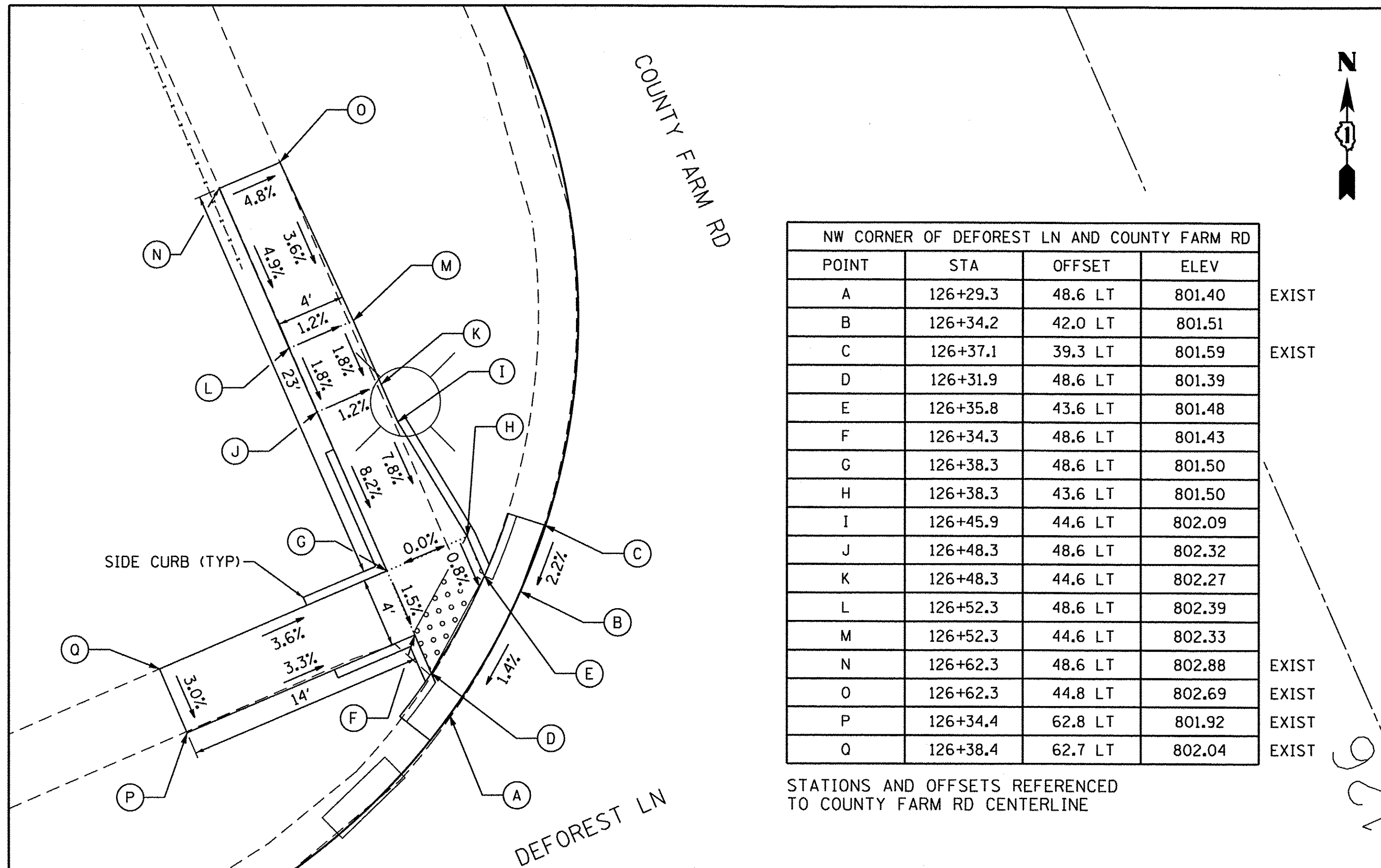
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|---|----------------------------|------------------|-----------|
| ENGINEERING CONSULTANT | USER NAME = mdboub | DESIGNED - ES | REVISED - |
| Ciorba Group, Inc. CONSULTING ENGINEERS 5637 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel: 773.775.4000 Fax: 773.775.4014 Email: chicago@ciorba.com | | DRAWN - NT / AMH | REVISED - |
| | PLOT SCALE = 10.0000' / 1" | CHECKED - ES | REVISED - |
| | PLOT DATE = 3/8/2017 | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|---|-----------|-----------|--------------|
| COUNTY FARM ROAD IMPROVEMENTS SIDEWALK DETAILS | | | |
| SCALE: 1" = 5' | SHEET NO. | OF SHEETS | STA. TO STA. |

| | | | | |
|--------------------|----------------|--------|--------------|---------------------------|
| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 83 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |



NOTE:
SIDE CURB SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WORK SHALL BE DONE PER THE APPLICABLE HIGHWAY STANDARDS (424).

ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
6807 North Cumberland Avenue, Suite 402
Chicago, Illinois 60630
Tel: 773.775.4209 Fax: 773.775.4014
Email: cllorba@clorba.com

| | | |
|---------------------------|------------------|-----------|
| USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 1/8" = 1'-0" | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY FARM ROAD IMPROVEMENTS
SIDEWALK DETAILS

SCALE: 1" = 5'

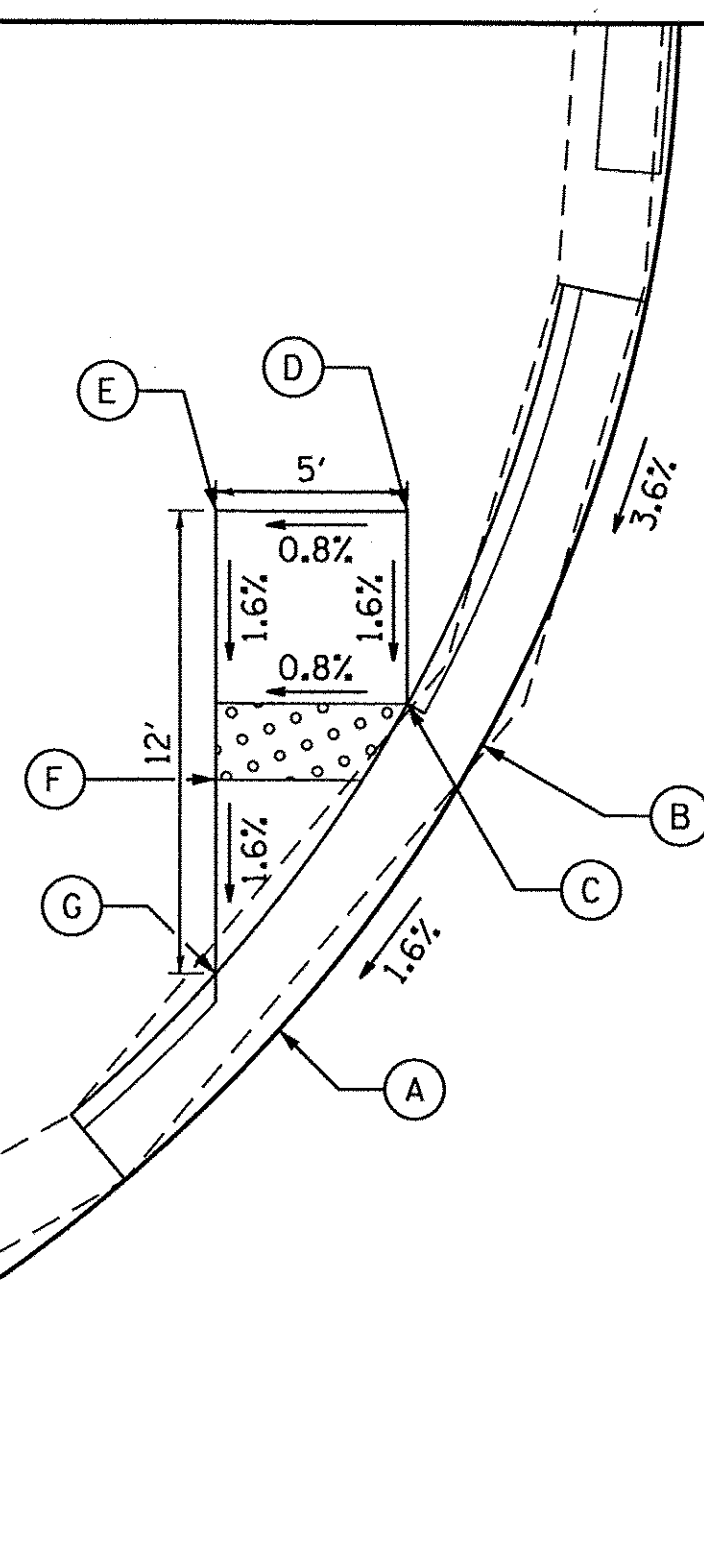
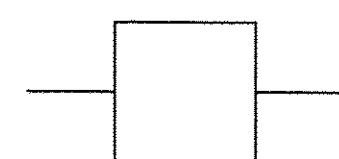
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|-----------|----|--------|------|----|------|
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| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 362 | 14-00179-31-SP | DUPAGE | 99 | 84 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

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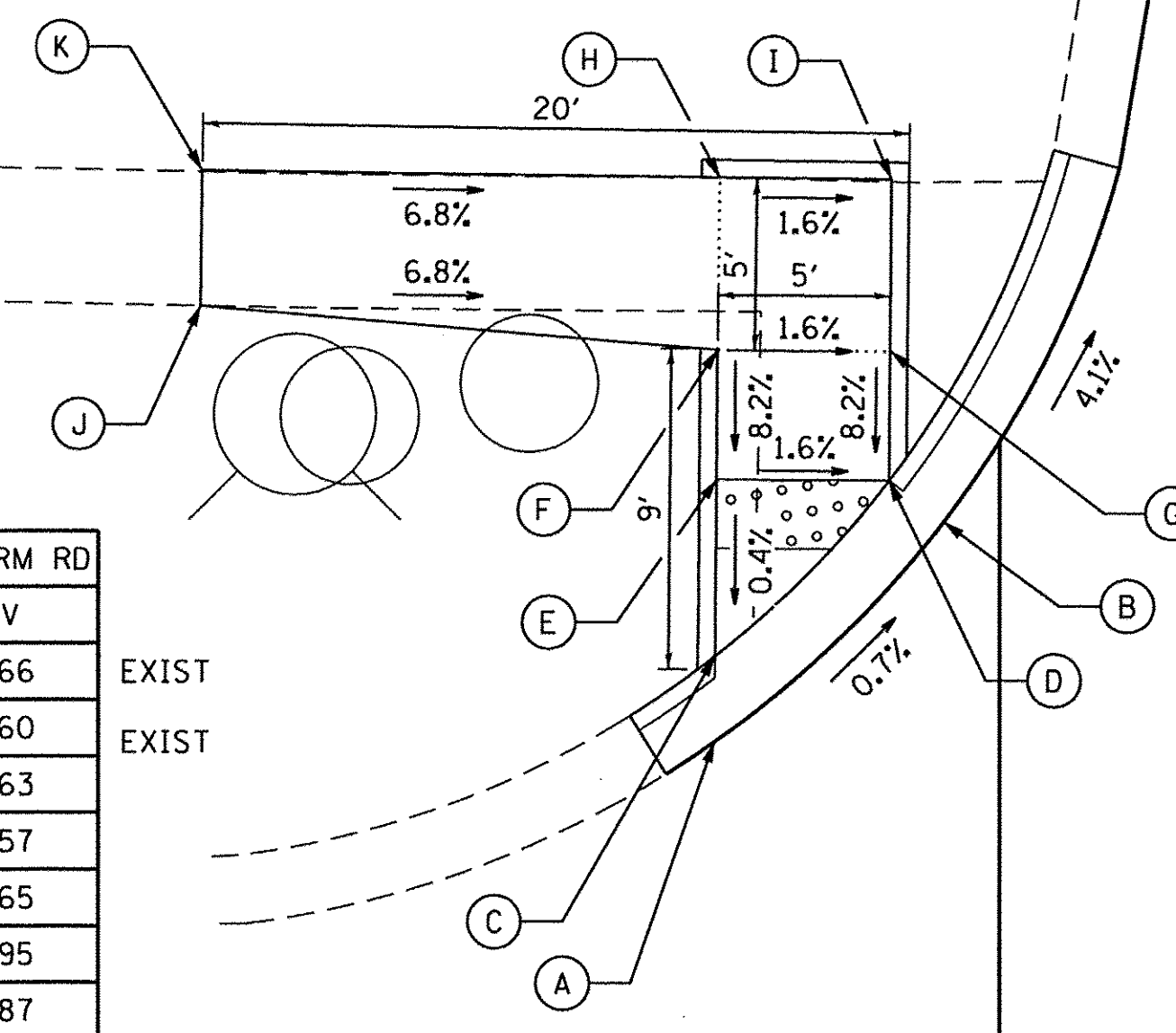
| NW CORNER OF LAWRENCE AVE AND COUNTY FARM RD | | | |
|--|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 137+84.4 | 38.8 LT | 809.77 |
| B | 137+91.9 | 33.6 LT | 809.96 |
| C | 137+93.0 | 35.5 LT | 810.01 |
| D | 137+98.0 | 35.5 LT | 809.97 |
| E | 137+98.0 | 40.5 LT | 809.89 |
| F | 137+91.0 | 40.5 LT | 809.78 |
| G | 137+85.9 | 40.5 LT | 809.81 |

STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE



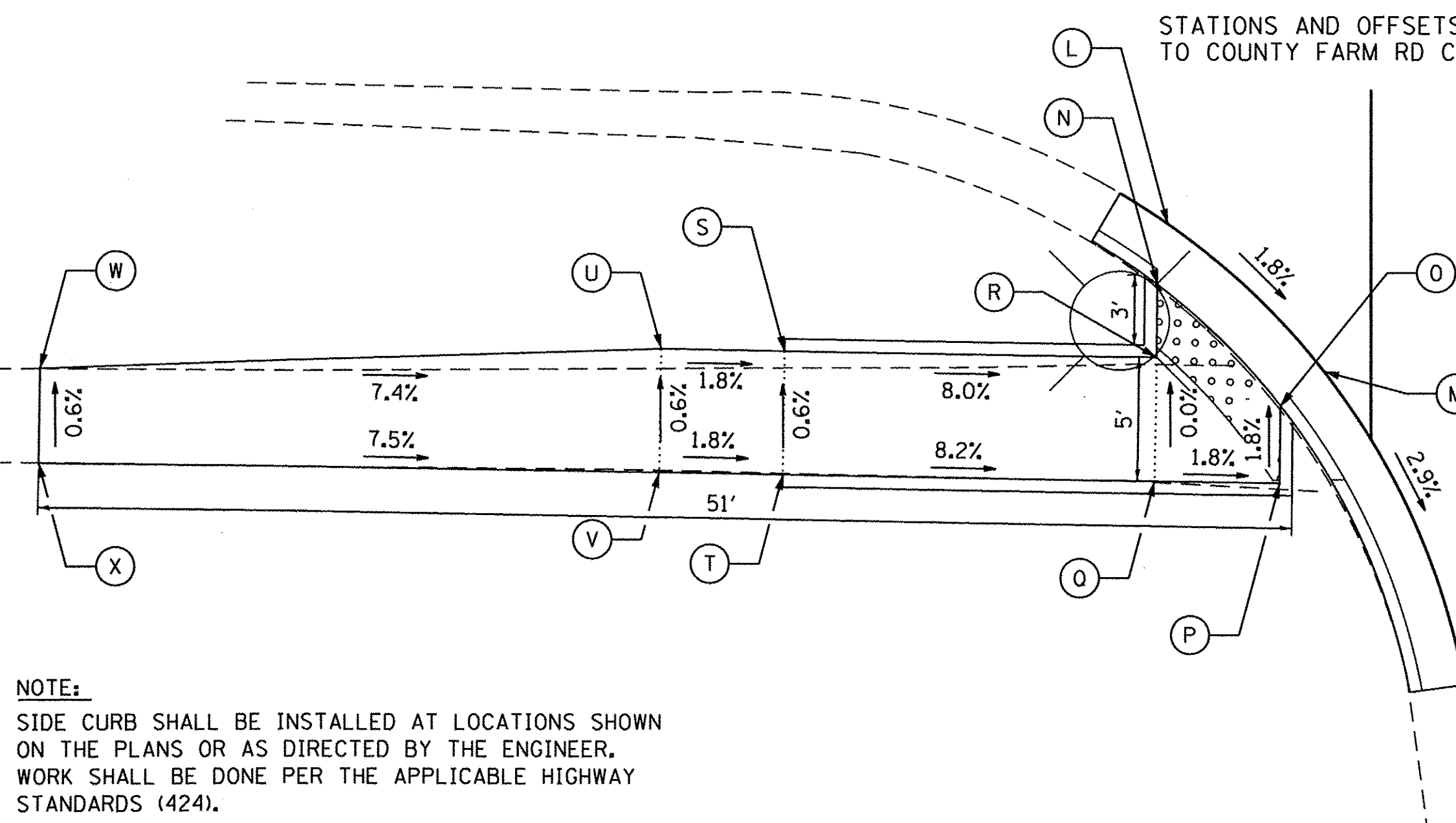
| NW CORNERS OF STAIRWAY DR AND COUNTY FARM RD | | | |
|--|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 172+97.6 | 41.9 LT | 767.66 |
| B | 173+04.0 | 35.3 LT | 767.60 |
| C | 173+00.1 | 41.9 LT | 767.63 |
| D | 173+05.2 | 36.8 LT | 767.57 |
| E | 173+05.2 | 41.8 LT | 767.65 |
| F | 173+09.0 | 41.8 LT | 767.95 |
| G | 173+08.9 | 36.8 LT | 767.87 |
| I | 173+13.9 | 36.8 LT | 767.95 |
| H | 173+14.0 | 41.8 LT | 768.03 |
| J | 173+10.2 | 56.8 LT | 768.97 |
| K | 173+14.1 | 56.8 LT | 769.05 |

STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE



| SW CORNERS OF STAIRWAY DR AND COUNTY FARM RD | | | |
|--|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| L | 172+54.0 | 41.7 LT | 767.29 |
| M | 172+84.0 | 35.3 LT | 767.15 |
| N | 172+51.6 | 42.1 LT | 767.26 |
| O | 172+46.7 | 37.1 LT | 767.12 |
| P | 172+43.5 | 37.1 LT | 767.17 |
| Q | 172+43.6 | 42.2 LT | 767.26 |
| R | 172+48.6 | 42.1 LT | 767.26 |
| S | 172+48.8 | 57.1 LT | 768.46 |
| T | 172+43.8 | 57.2 LT | 768.49 |
| U | 172+48.8 | 62.1 LT | 768.55 |
| V | 172+43.8 | 62.5 LT | 768.58 |
| W | 172+48.0 | 87.1 LT | 770.41 |
| X | 172+44.1 | 87.2 LT | 770.45 |

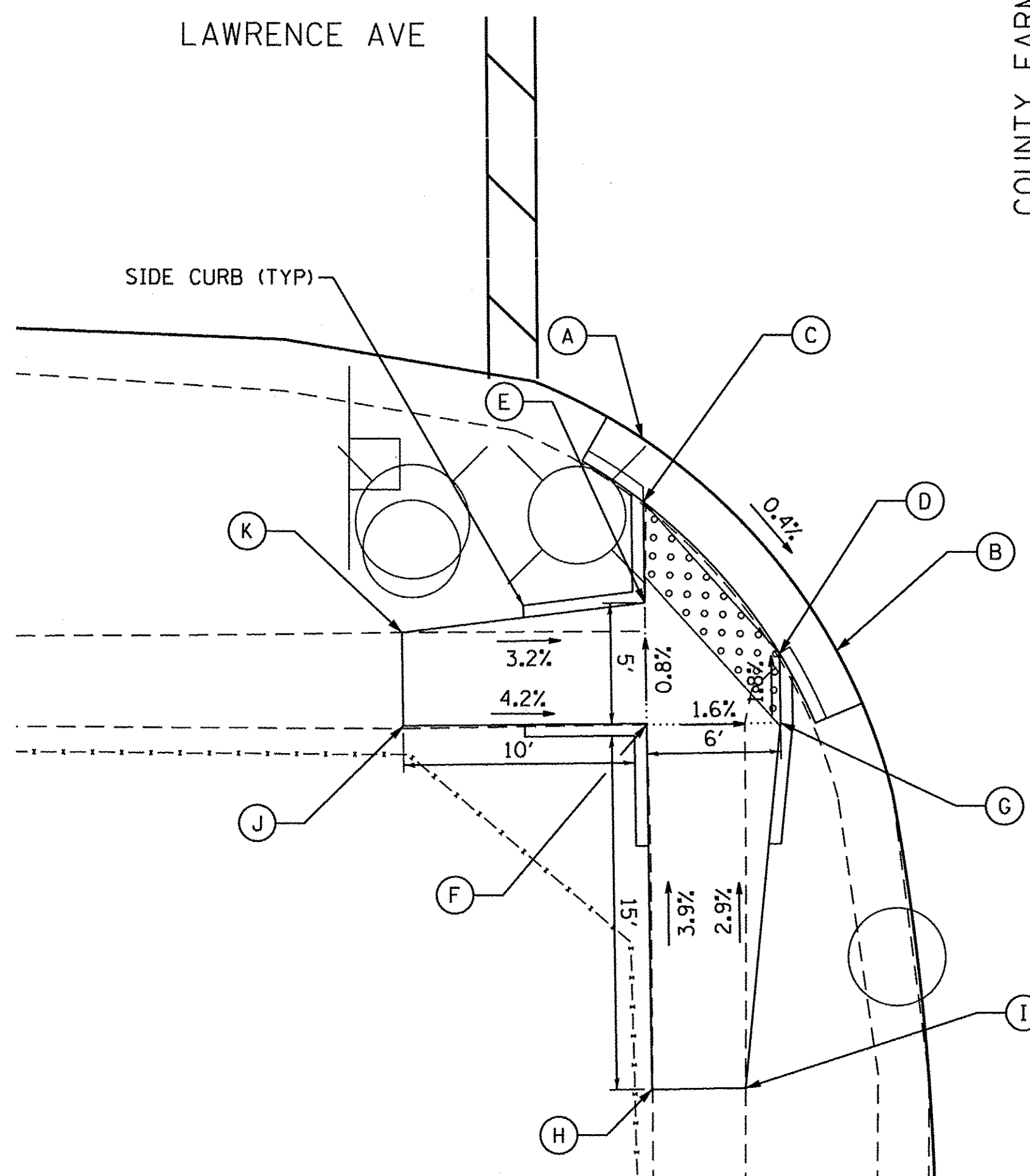
STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE



NOTE:
SIDE CURB SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WORK SHALL BE DONE PER THE APPLICABLE HIGHWAY STANDARDS (424).

| SW CORNER OF LAWRENCE AVE AND COUNTY FARM RD | | | |
|--|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 137+41.7 | 40.7 RT | 809.53 |
| B | 137+33.0 | 32.7 RT | 809.48 |
| C | 137+39.1 | 40.6 RT | 809.50 |
| D | 137+32.9 | 35.0 RT | 809.45 |
| E | 137+34.9 | 40.5 RT | 809.54 |
| F | 137+29.9 | 40.5 RT | 809.58 |
| G | 137+30.0 | 35.0 RT | 809.50 |
| H | 137+14.9 | 40.2 RT | 810.16 |
| I | 137+15.0 | 36.3 RT | 809.93 |
| J | 137+29.8 | 50.5 RT | 810.00 |
| K | 137+33.7 | 50.5 RT | 809.86 |

STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE



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PLOT DATE = 3/8/2017



| | | | |
|------------------------|---------------------|------------------|-----------|
| ENGINEERING CONSULTANT | USER NAME = mdeboub | DESIGNED - ES | REVISED - |
| | | DRAWN - NT / AMH | REVISED - |
| | | CHECKED - ES | REVISED - |
| | | DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

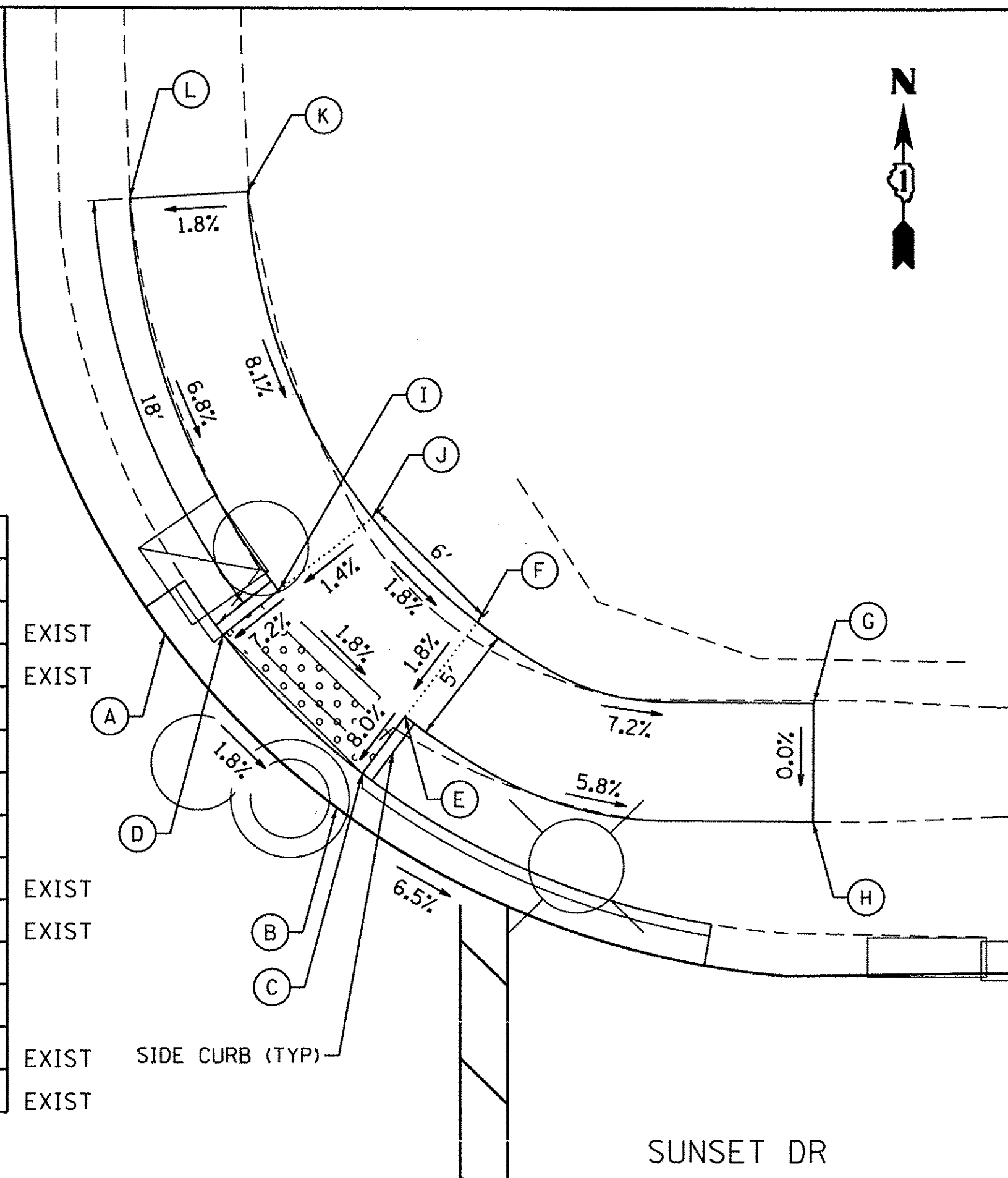
COUNTY FARM ROAD IMPROVEMENTS
SIDEWALK DETAILS

SCALE: 1" = 5' SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|--------------------|------------------------|---------------|-----------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 85 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |

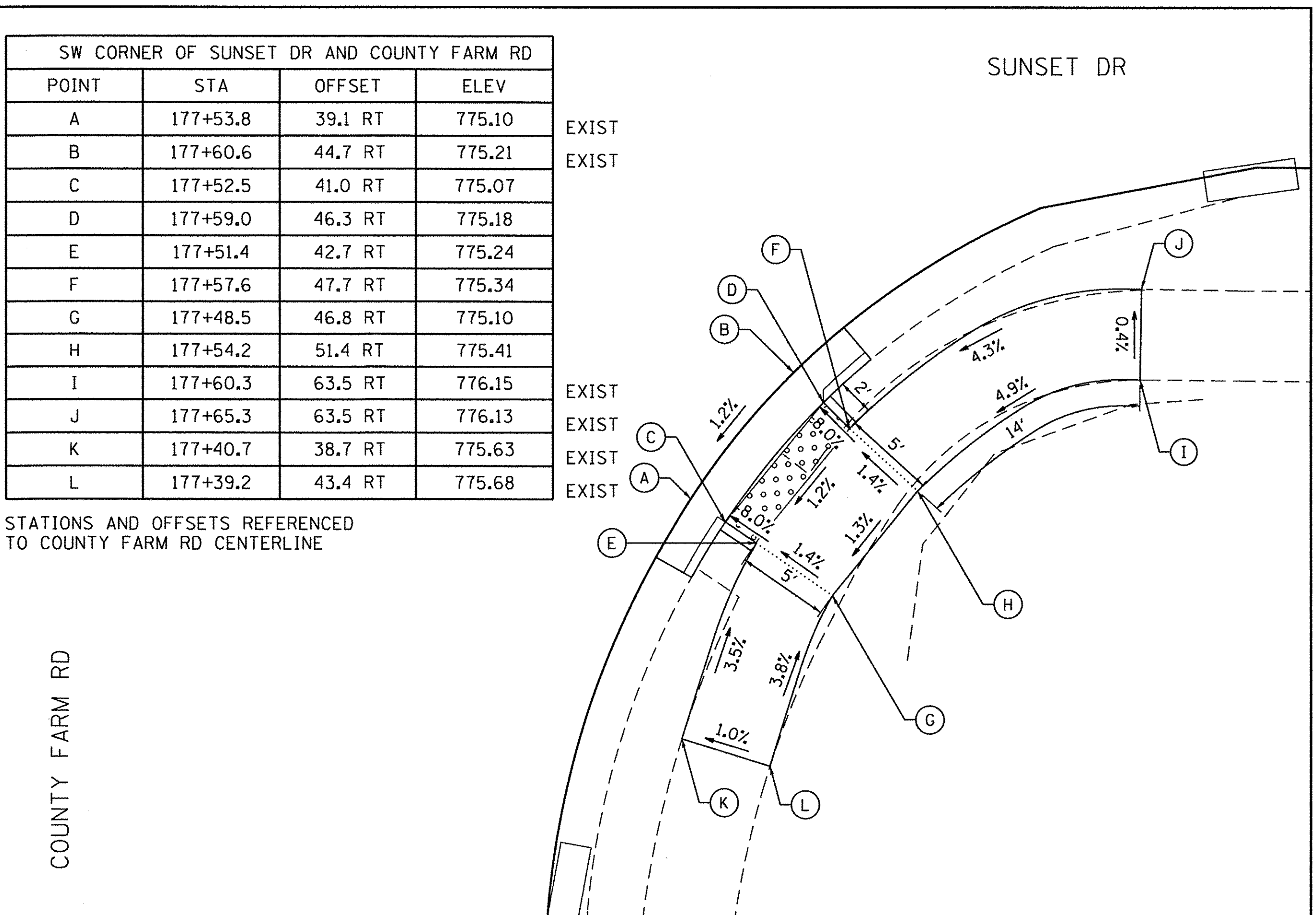
| NW CORNER OF SUNSET DR AND COUNTY FARM RD | | | |
|---|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 178+40.9 | 37.8 RT | 777.65 |
| B | 178+33.6 | 45.1 RT | 777.46 |
| C | 178+35.1 | 46.2 RT | 777.43 |
| D | 178+40.9 | 40.3 RT | 777.58 |
| E | 178+37.5 | 48.0 RT | 777.67 |
| F | 178+41.5 | 51.0 RT | 777.76 |
| G | 178+38.3 | 65.2 RT | 776.74 |
| H | 178+33.2 | 65.2 RT | 776.75 |
| I | 178+42.8 | 42.6 RT | 777.80 |
| J | 178+45.9 | 46.6 RT | 777.87 |
| K | 178+59.7 | 41.3 RT | 779.09 |
| L | 178+59.3 | 36.3 RT | 779.00 |

STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE



| SW CORNER OF SUNSET DR AND COUNTY FARM RD | | | |
|---|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 177+53.8 | 39.1 RT | 775.10 |
| B | 177+60.6 | 44.7 RT | 775.21 |
| C | 177+52.5 | 41.0 RT | 775.07 |
| D | 177+59.0 | 46.3 RT | 775.18 |
| E | 177+51.4 | 42.7 RT | 775.24 |
| F | 177+57.6 | 47.7 RT | 775.34 |
| G | 177+48.5 | 46.8 RT | 775.10 |
| H | 177+54.2 | 51.4 RT | 775.41 |
| I | 177+60.3 | 63.5 RT | 776.15 |
| J | 177+65.3 | 63.5 RT | 776.13 |
| K | 177+40.7 | 38.7 RT | 775.63 |
| L | 177+39.2 | 43.4 RT | 775.68 |

STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE



NOTE:
SIDE CURB SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WORK SHALL BE DONE PER THE APPLICABLE HIGHWAY STANDARDS (424).

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ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
2507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel: 773.772.4509 Fax: 773.775.4014
Email: clorba@clorba.com

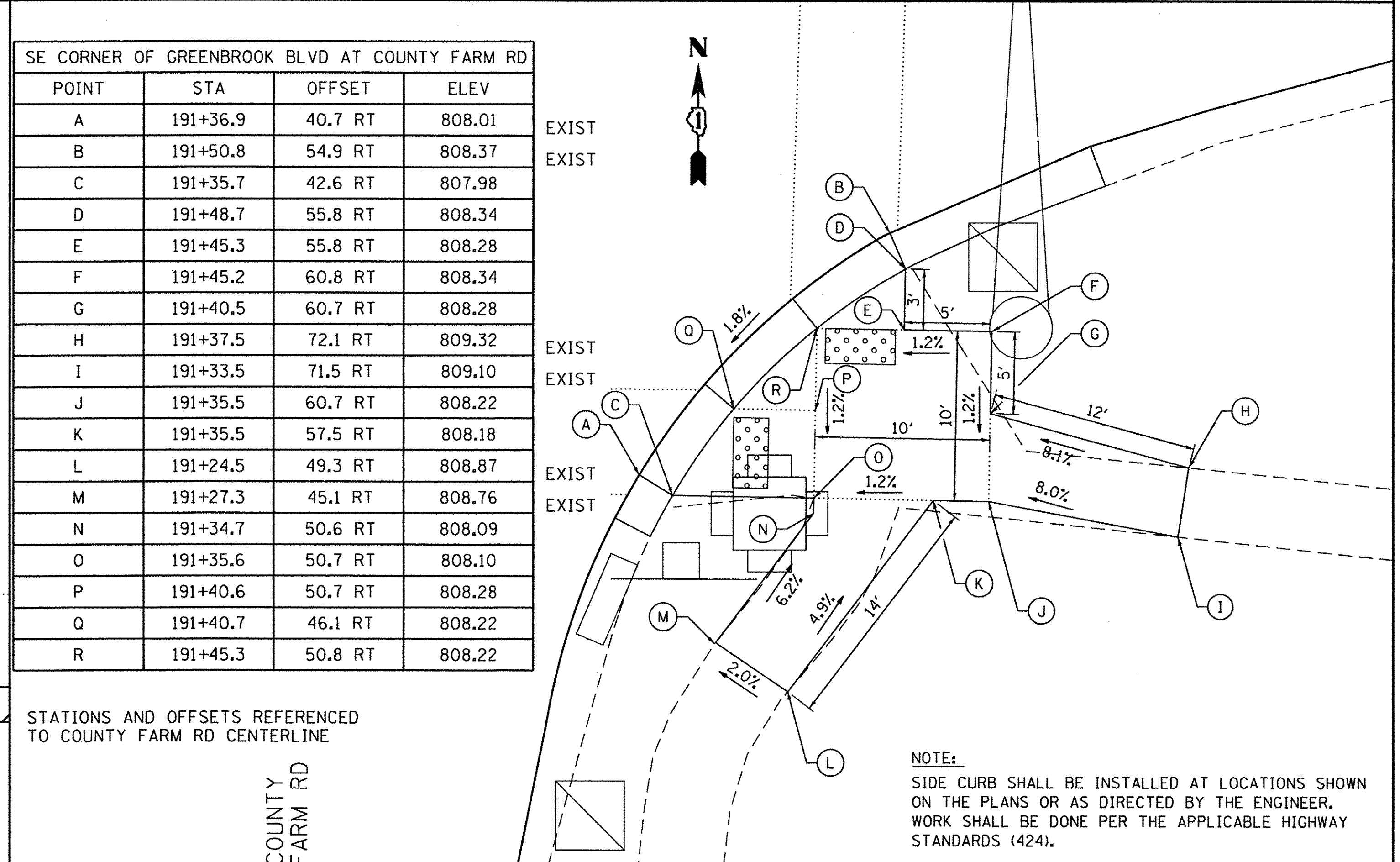
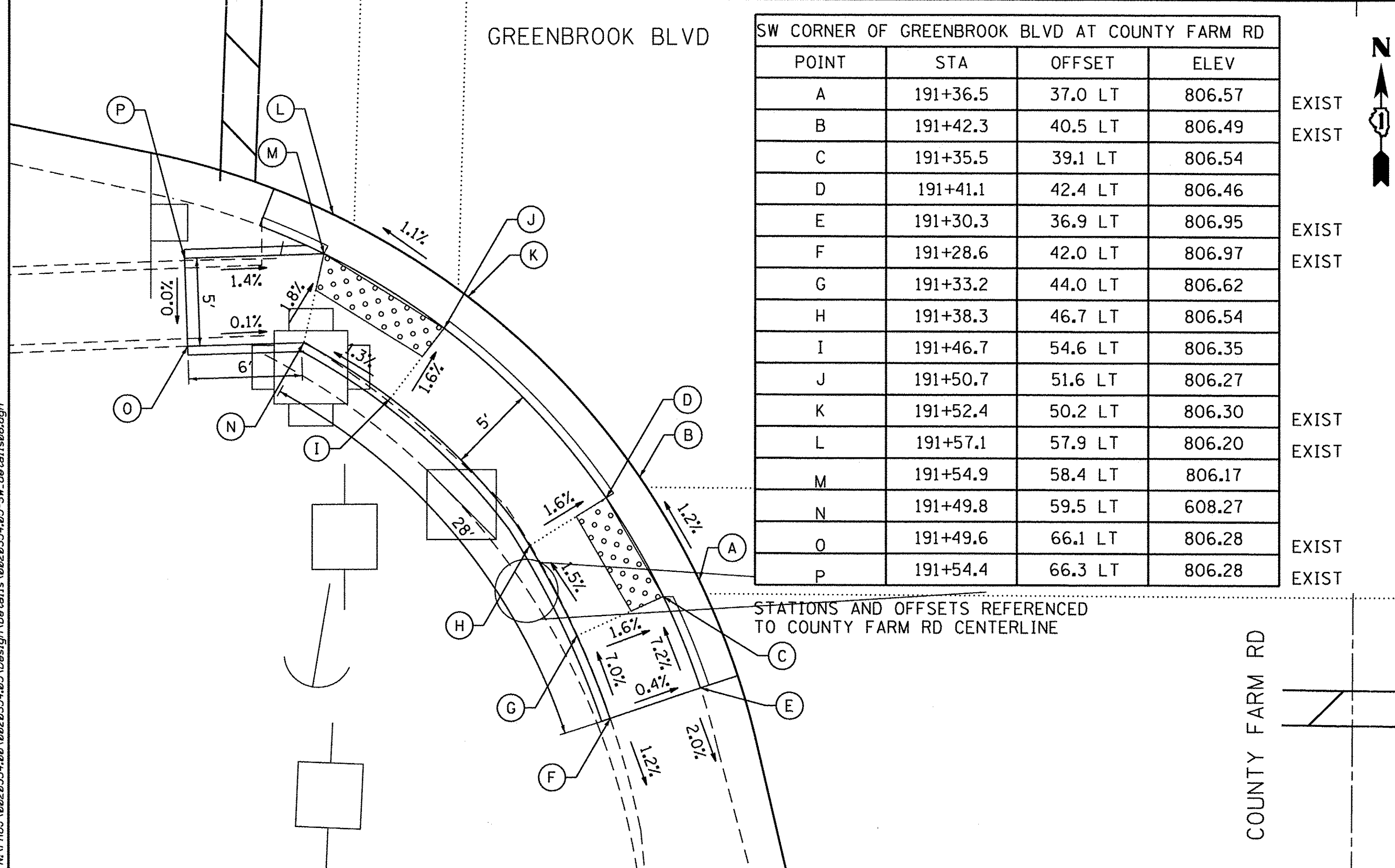
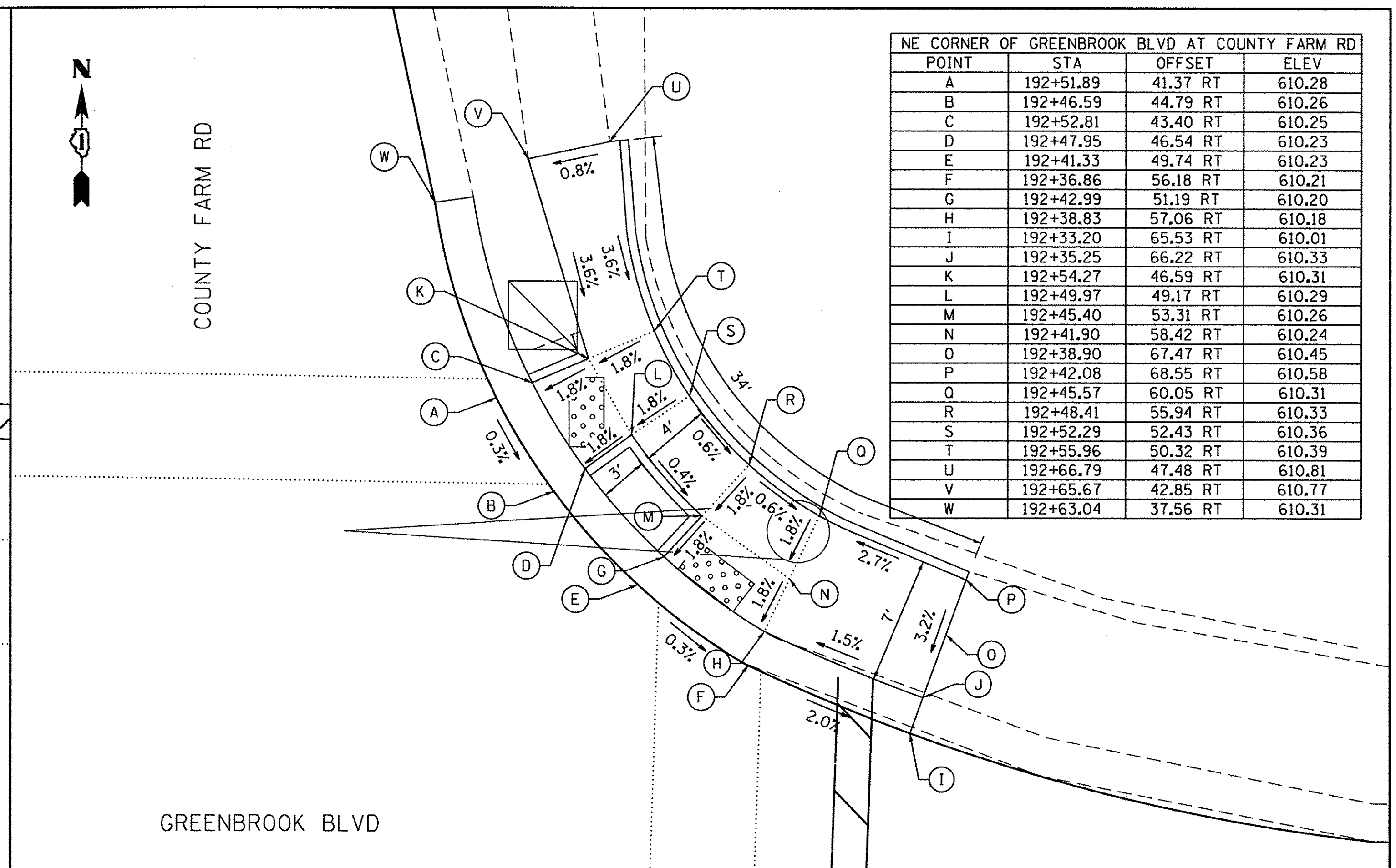
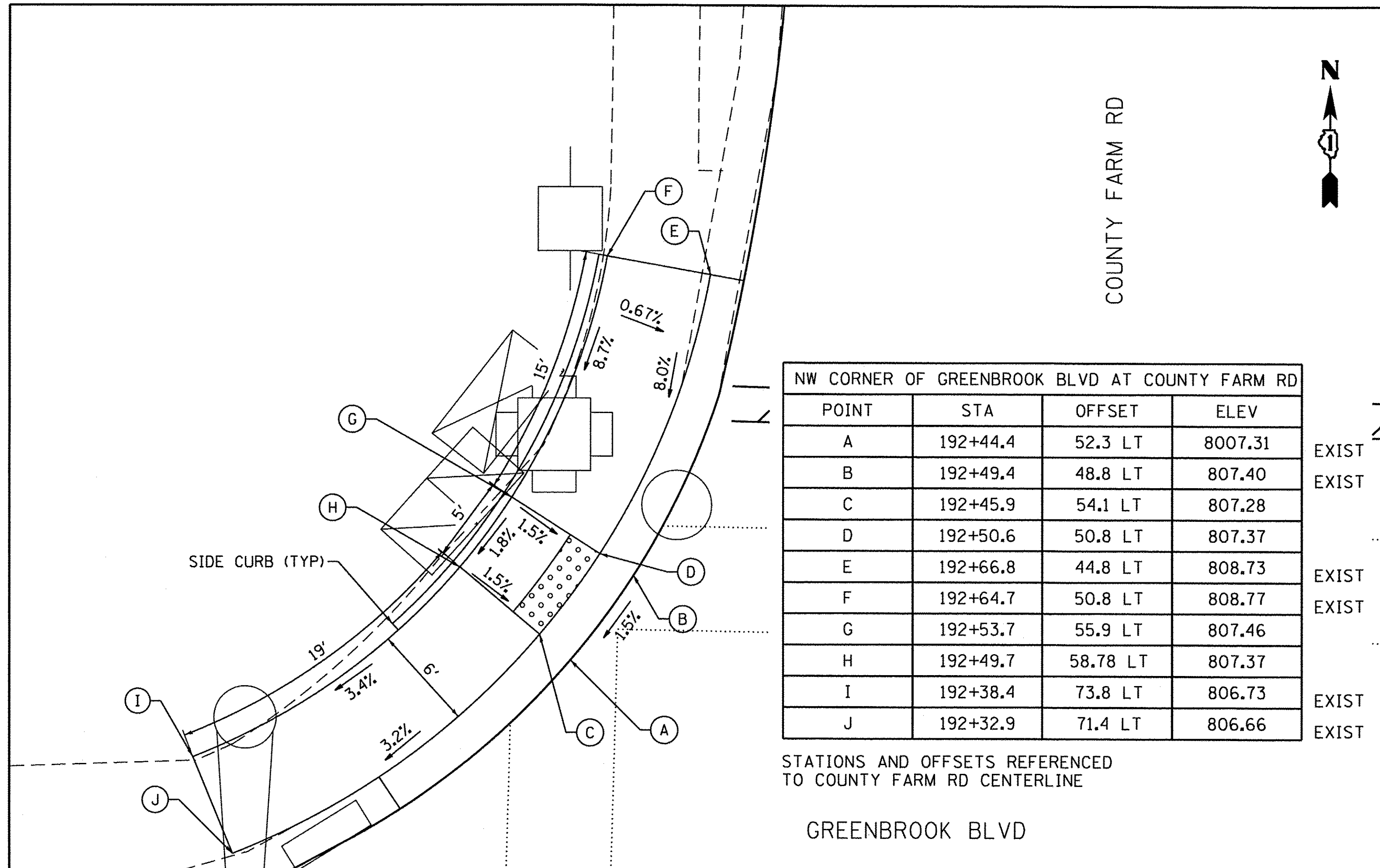
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| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | | | |
|--------------------------------------|---------------------|----------|----------------|---------------------------|--------------|-----------|
| COUNTY FARM ROAD IMPROVEMENTS | | FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SIDEWALK DETAILS | | 362 | 14-00179-31-SP | DUPAGE | 99 | 86 |
| SCALE: 1" = 5' | SHEET NO. OF SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | |

| | | | | | | |
|--------------------------------------|--|--------------------|----------------|---------------------------|--------------|-----------|
| COUNTY FARM ROAD IMPROVEMENTS | | FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SIDEWALK DETAILS | | 362 | 14-00179-31-SP | DUPAGE | 99 | 86 |
| | | CONTRACT NO. 61D62 | | ILLINOIS FED. AID PROJECT | | |

| POINT | STA | OFFSET | ELEV |
|-------|-----------|----------|--------|
| A | 192+51.89 | 41.37 RT | 610.28 |
| B | 192+46.59 | 44.79 RT | 610.26 |
| C | 192+52.81 | 43.40 RT | 610.25 |
| D | 192+47.95 | 46.54 RT | 610.23 |
| E | 192+41.33 | 49.74 RT | 610.23 |
| F | 192+36.86 | 56.18 RT | 610.21 |
| G | 192+42.99 | 51.19 RT | 610.20 |
| H | 192+38.83 | 57.06 RT | 610.18 |
| I | 192+33.20 | 65.53 RT | 610.01 |
| J | 192+35.25 | 66.22 RT | 610.33 |
| K | 192+54.27 | 46.59 RT | 610.31 |
| L | 192+49.97 | 49.17 RT | 610.29 |
| M | 192+45.40 | 53.31 RT | 610.26 |
| N | 192+41.90 | 58.42 RT | 610.24 |
| O | 192+38.90 | 67.47 RT | 610.45 |
| P | 192+42.08 | 68.55 RT | 610.58 |
| Q | 192+45.57 | 60.05 RT | 610.31 |
| R | 192+48.41 | 55.94 RT | 610.33 |
| S | 192+52.29 | 52.43 RT | 610.36 |
| T | 192+55.96 | 50.32 RT | 610.39 |
| U | 192+66.79 | 47.48 RT | 610.81 |
| V | 192+65.67 | 42.85 RT | 610.77 |
| W | 192+63.04 | 37.56 RT | 610.31 |



NOTE:
SIDE CURB SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WORK SHALL BE DONE PER THE APPLICABLE HIGHWAY STANDARDS (424).

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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel: 773.775.4008 Fax: 773.775.4014
 Email: clorba@clorba.com

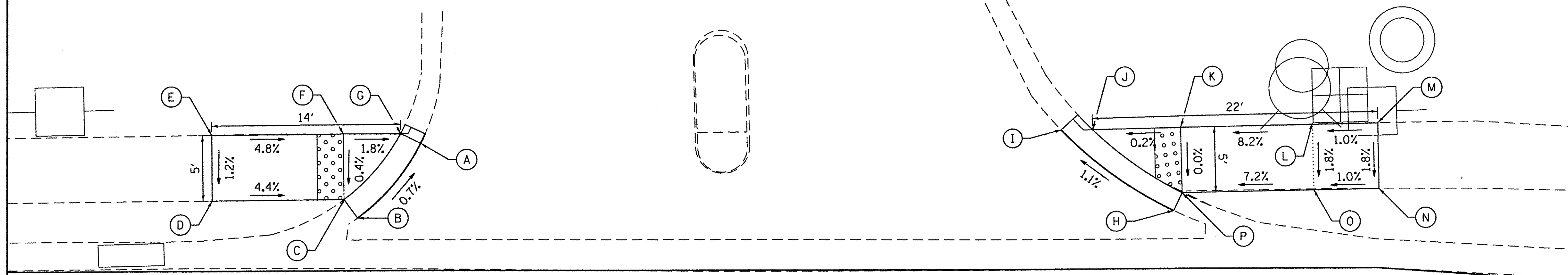
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| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| COUNTY FARM ROAD IMPROVEMENTS | | | |
|-------------------------------|-----------|-----------|--------------|
| SIDEWALK DETAILS | | | |
| SCALE: 1" = 5' | SHEET NO. | OF SHEETS | STA. TO STA. |
| | | | |

| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------|----------------|--------|--------------|-----------|
| 362 | 14-00179-31-SP | DUPAGE | 99 | 87 |
| CONTRACT NO. 61D62 | | | | |
| [ILLINOIS] FED. AID PROJECT | | | | |

BP DWY ENTRANCE



| BP ENTRANCE AT COUNTY FARM RD | | | |
|-------------------------------|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 193+76.9 | 50.7 LT | 810.03 |
| B | 193+72.1 | 45.0 LT | 810.09 |
| C | 193+71.1 | 46.4 LT | 810.06 |
| D | 193+61.1 | 46.4 LT | 810.50 |
| E | 193+61.1 | 51.4 LT | 810.56 |
| F | 193+71.1 | 51.4 LT | 810.08 |
| G | 193+75.4 | 51.4 LT | 810.00 |
| H | 194+34.0 | 45.4 LT | 810.26 |
| I | 194+25.5 | 51.6 LT | 810.24 |
| J | 194+24.9 | 51.6 LT | 810.21 |
| K | 194+34.6 | 51.7 LT | 810.22 |
| L | 194+44.6 | 51.9 LT | 811.04 |
| M | 194+49.6 | 52.0 LT | 811.09 |
| N | 194+49.6 | 47.0 LT | 811.00 |
| O | 194+44.7 | 46.9 LT | 810.95 |
| P | 194+34.7 | 46.7 LT | 810.23 |

COUNTY FARM RD

NOTE:

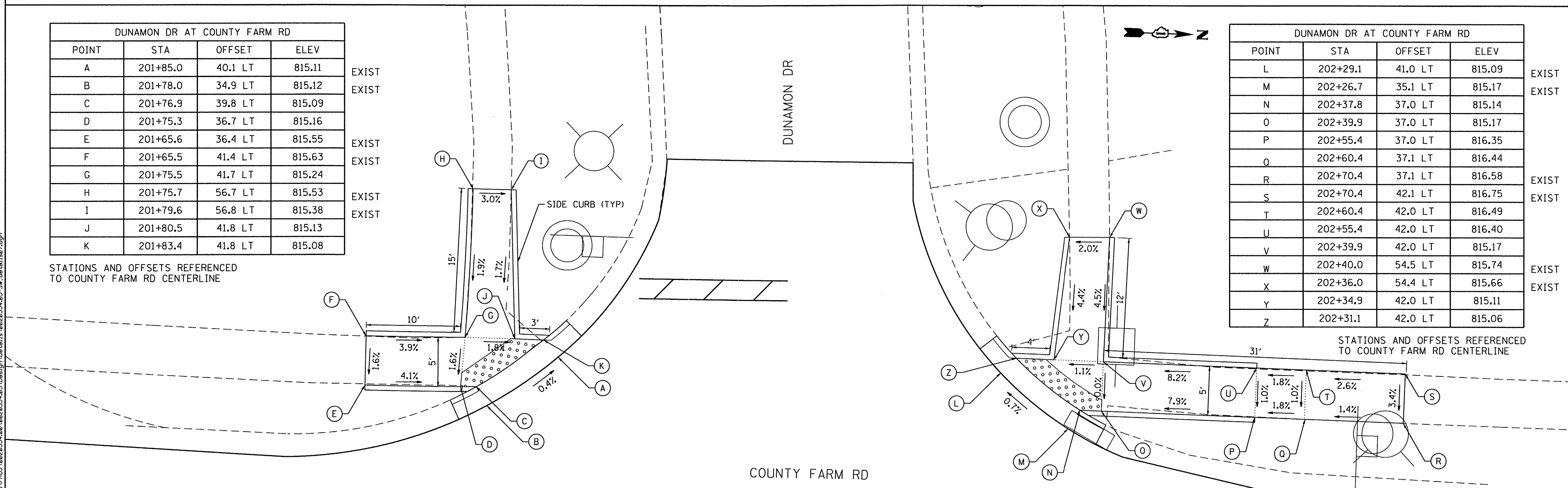
SIDE CURB SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WORK SHALL BE DONE PER THE APPLICABLE HIGHWAY STANDARDS (424).

STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE

DUNAMON DR AT COUNTY FARM RD

| POINT | STA | OFFSET | ELEV |
|-------|----------|---------|--------|
| A | 201+85.0 | 40.1 LT | 815.11 |
| B | 201+78.0 | 34.9 LT | 815.12 |
| C | 201+76.9 | 39.8 LT | 815.09 |
| D | 201+75.3 | 36.7 LT | 815.16 |
| E | 201+65.6 | 36.4 LT | 815.55 |
| F | 201+65.5 | 41.4 LT | 815.63 |
| G | 201+75.5 | 41.7 LT | 815.24 |
| H | 201+75.7 | 56.7 LT | 815.53 |
| I | 201+79.6 | 56.8 LT | 815.38 |
| J | 201+80.5 | 41.8 LT | 815.13 |
| K | 201+83.4 | 41.8 LT | 815.08 |

STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE



DUNAMON DR AT COUNTY FARM RD

| POINT | STA | OFFSET | ELEV |
|-------|----------|---------|--------|
| L | 202+29.1 | 41.0 LT | 815.09 |
| M | 202+26.7 | 35.1 LT | 815.17 |
| N | 202+37.8 | 37.0 LT | 815.14 |
| O | 202+39.9 | 37.0 LT | 815.17 |
| P | 202+55.4 | 37.0 LT | 816.35 |
| Q | 202+60.4 | 37.1 LT | 816.44 |
| R | 202+70.4 | 37.1 LT | 816.58 |
| S | 202+70.4 | 42.1 LT | 816.75 |
| T | 202+60.4 | 42.0 LT | 816.49 |
| U | 202+55.4 | 42.0 LT | 816.40 |
| V | 202+39.9 | 42.0 LT | 815.17 |
| W | 202+40.0 | 54.5 LT | 815.74 |
| X | 202+36.0 | 54.4 LT | 815.66 |
| Y | 202+34.9 | 42.0 LT | 815.11 |
| Z | 202+31.1 | 42.0 LT | 815.06 |

STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE

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| NE CORNER OF ARLINGTON DR AT COUNTY FARM RD | | | |
|---|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 206+80.8 | 37.1 RT | 812.78 |
| B | 206+73.5 | 43.9 RT | 812.90 |
| C | 206+76.4 | 43.9 RT | 812.87 |
| D | 206+80.9 | 43.9 RT | 812.88 |
| E | 206+74.4 | 65.6 RT | 814.41 |
| F | 206+74.4 | 70.2 RT | 814.48 |
| G | 206+75.8 | 80.2 RT | 814.62 |
| H | 206+79.5 | 80.2 RT | 814.65 |
| I | 206+79.4 | 70.2 RT | 814.51 |
| J | 206+79.4 | 65.5 RT | 814.44 |
| K | 206+85.9 | 43.9 RT | 812.89 |
| L | 206+98.2 | 43.8 RT | 813.30 |
| M | 206+96.8 | 38.8 RT | 813.07 |
| N | 206+85.8 | 38.9 RT | 812.81 |
| O | 206+82.1 | 38.9 RT | 812.75 |

EXIST
EXIST
EXIST
EXIST

| NW CORNER OF SWINFORD RD AT COUNTY FARM RD | | | |
|--|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 210+97.2 | 38.6 LT | 806.54 |
| B | 210+88.3 | 47.9 LT | 806.68 |
| C | 210+91.0 | 47.9 LT | 806.65 |
| D | 210+95.9 | 47.9 LT | 806.67 |
| E | 210+95.9 | 62.9 LT | 807.76 |
| F | 210+95.9 | 67.9 LT | 807.84 |
| G | 210+96.9 | 77.9 LT | 808.05 |
| H | 211+00.8 | 77.9 LT | 808.05 |
| I | 211+00.9 | 67.9 LT | 807.89 |
| J | 211+00.9 | 62.9 LT | 807.81 |
| K | 211+00.9 | 47.9 LT | 806.69 |
| L | 211+00.9 | 40.4 LT | 806.55 |
| M | 210+98.6 | 40.4 LT | 806.51 |

EXIST
EXIST
EXIST
EXIST

| SE CORNER OF ARLINGTON DR AT COUNTY FARM RD | | | |
|---|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 206+07.1 | 44.6 RT | 813.57 |
| B | 205+99.9 | 38.0 RT | 813.42 |
| C | 205+98.6 | 39.7 RT | 813.39 |
| D | 205+89.0 | 39.8 RT | 814.06 |
| E | 205+72.4 | 36.4 RT | 814.58 |
| F | 205+72.5 | 41.4 RT | 814.83 |
| G | 205+87.0 | 44.9 RT | 814.10 |
| H | 205+95.1 | 48.9 RT | 814.10 |
| I | 206+01.7 | 64.2 RT | 814.86 |
| J | 206+01.8 | 69.2 RT | 814.91 |
| K | 206+01.9 | 79.2 RT | 815.05 |
| L | 206+05.6 | 79.1 RT | 815.04 |
| M | 206+06.8 | 69.1 RT | 814.90 |
| N | 206+06.7 | 64.1 RT | 814.85 |
| O | 205+97.9 | 44.7 RT | 814.04 |
| P | 206+04.2 | 44.6 RT | 813.54 |

EXIST
EXIST
EXIST
EXIST
EXIST
EXIST

| SW CORNER OF SWINFORD RD AT COUNTY FARM RD | | | |
|--|----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 210+48.2 | 46.5 LT | 807.25 |
| B | 210+37.3 | 37.4 LT | 807.09 |
| C | 210+36.8 | 39.8 LT | 807.06 |
| D | 210+21.7 | 39.6 LT | 807.55 |
| E | 210+21.6 | 44.0 LT | 807.64 |
| F | 210+36.6 | 44.7 LT | 807.15 |
| G | 210+36.6 | 47.9 LT | 807.20 |
| H | 210+36.6 | 62.8 LT | 807.83 |
| I | 210+40.6 | 62.8 LT | 807.78 |
| J | 210+41.5 | 47.8 LT | 807.21 |
| K | 210+46.5 | 47.8 LT | 807.22 |

EXIST
EXIST
EXIST
EXIST
EXIST
EXIST

NOTE:
SIDE CURB SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WORK SHALL BE DONE PER THE APPLICABLE HIGHWAY STANDARDS (424).

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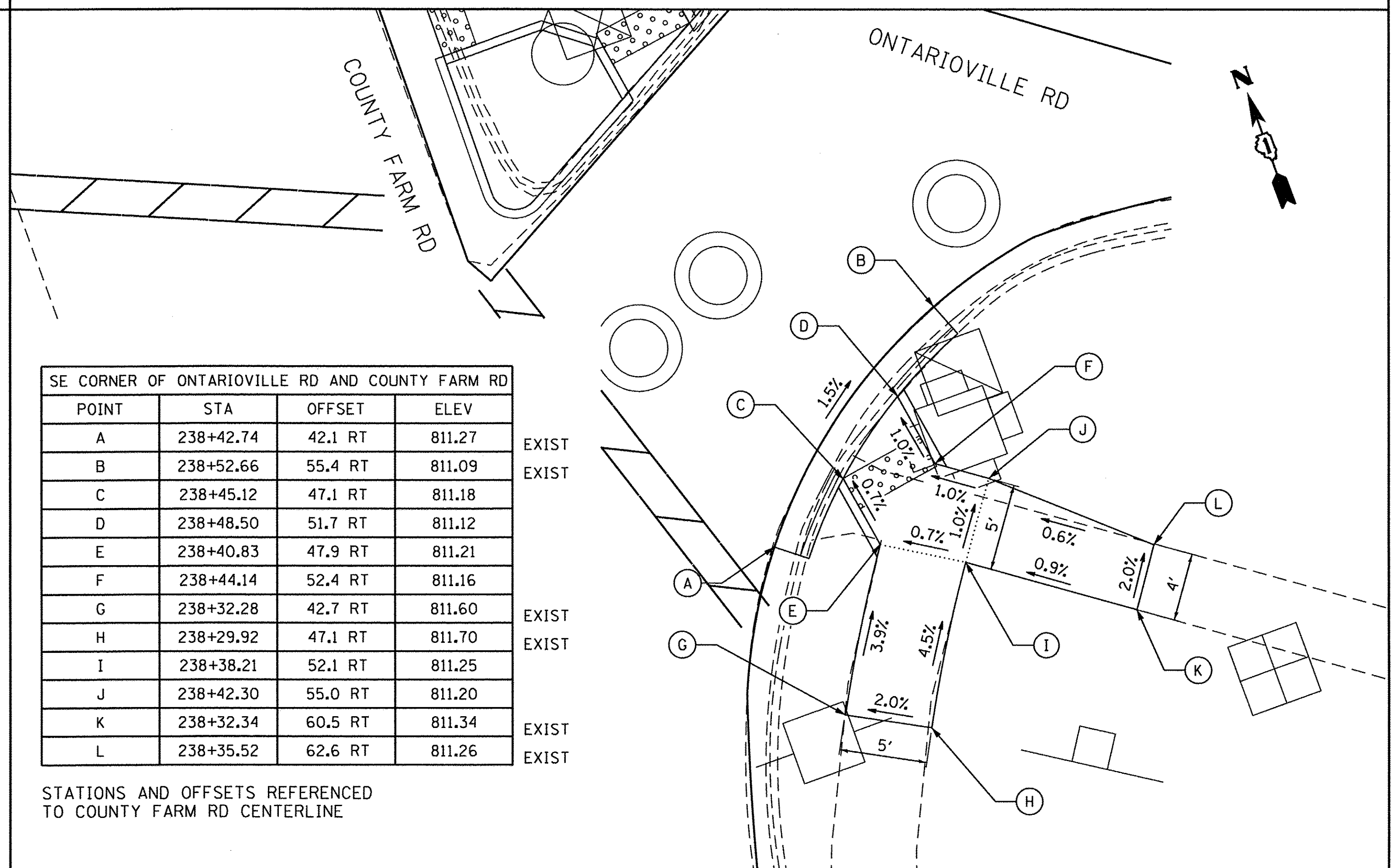
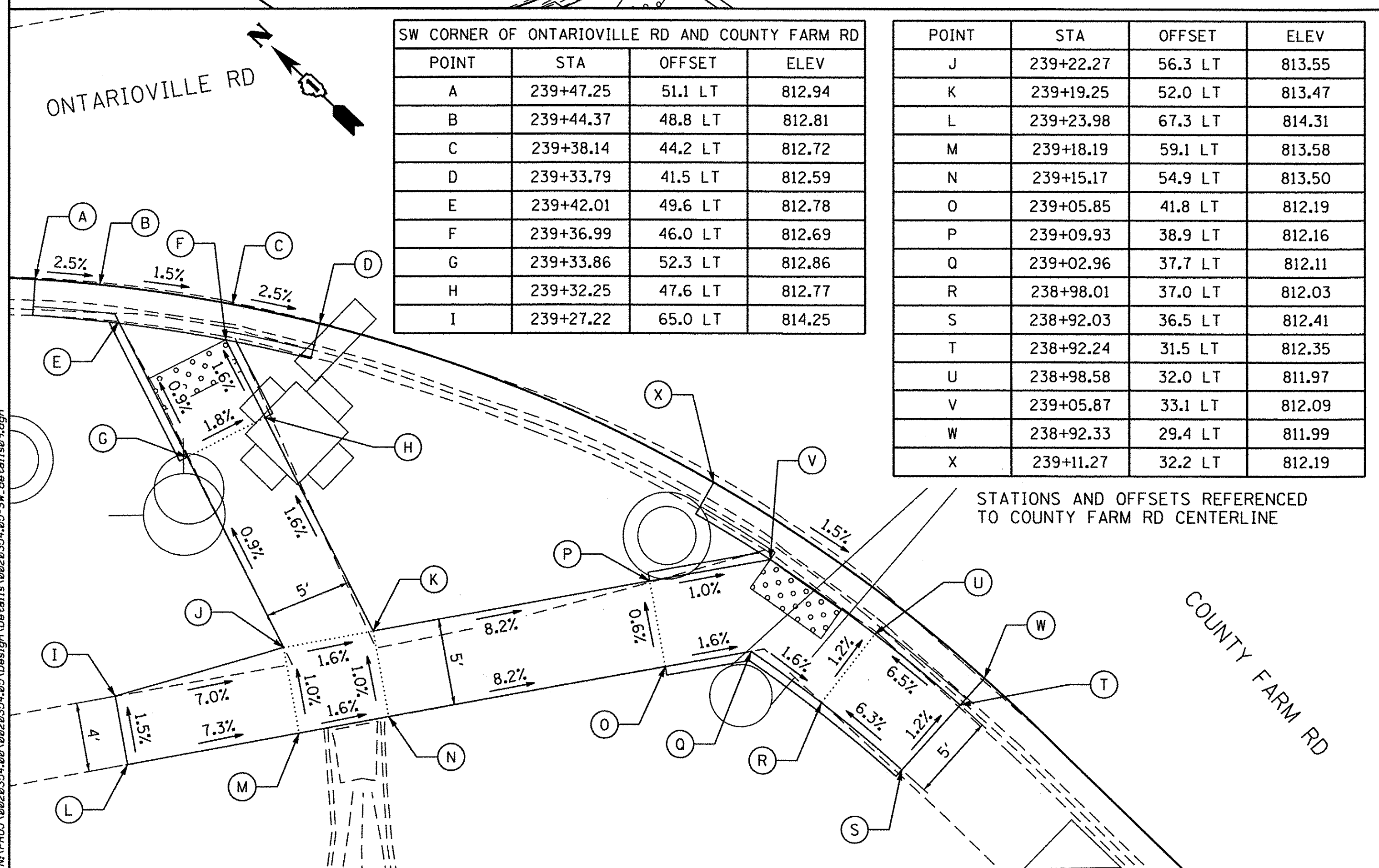
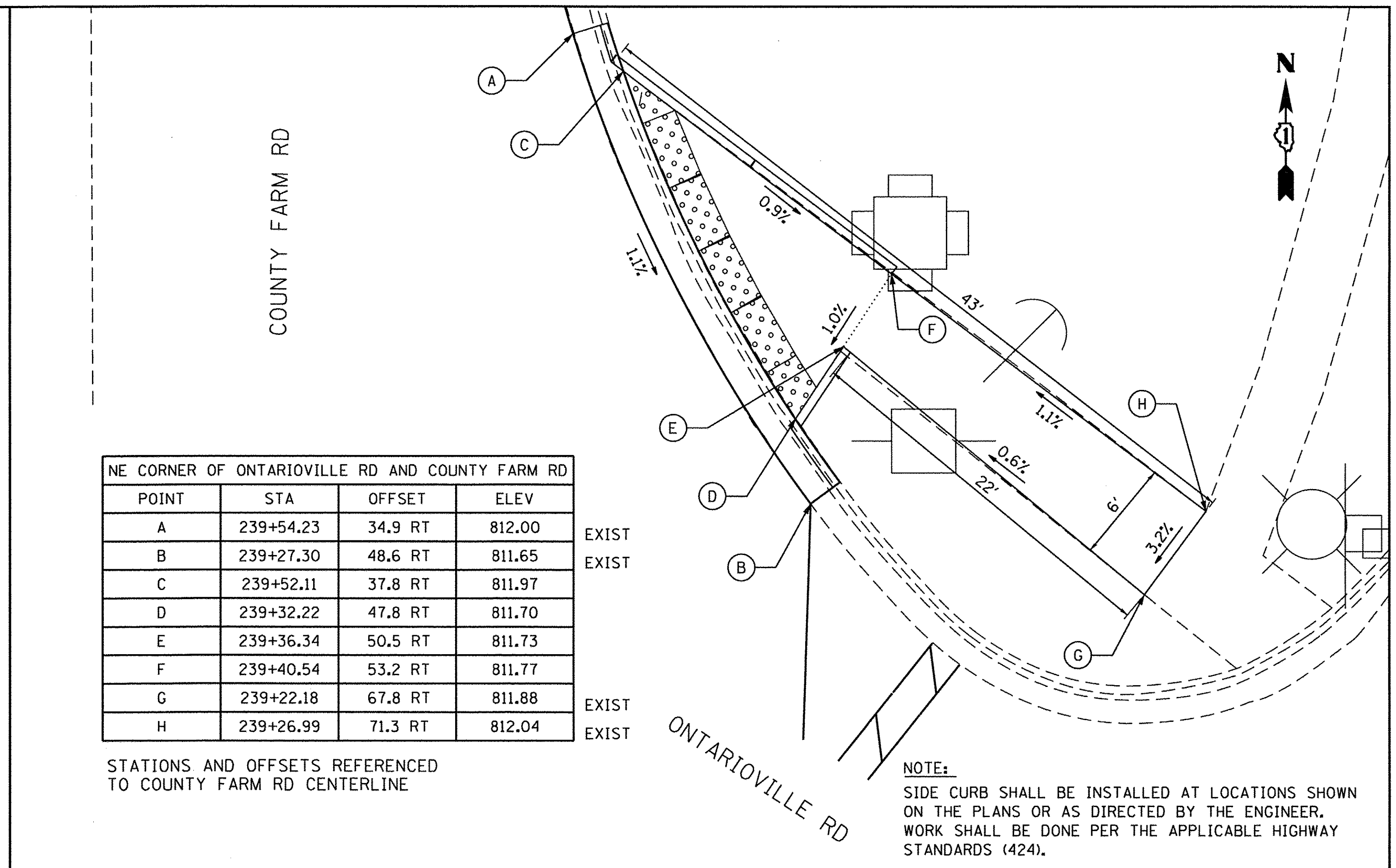
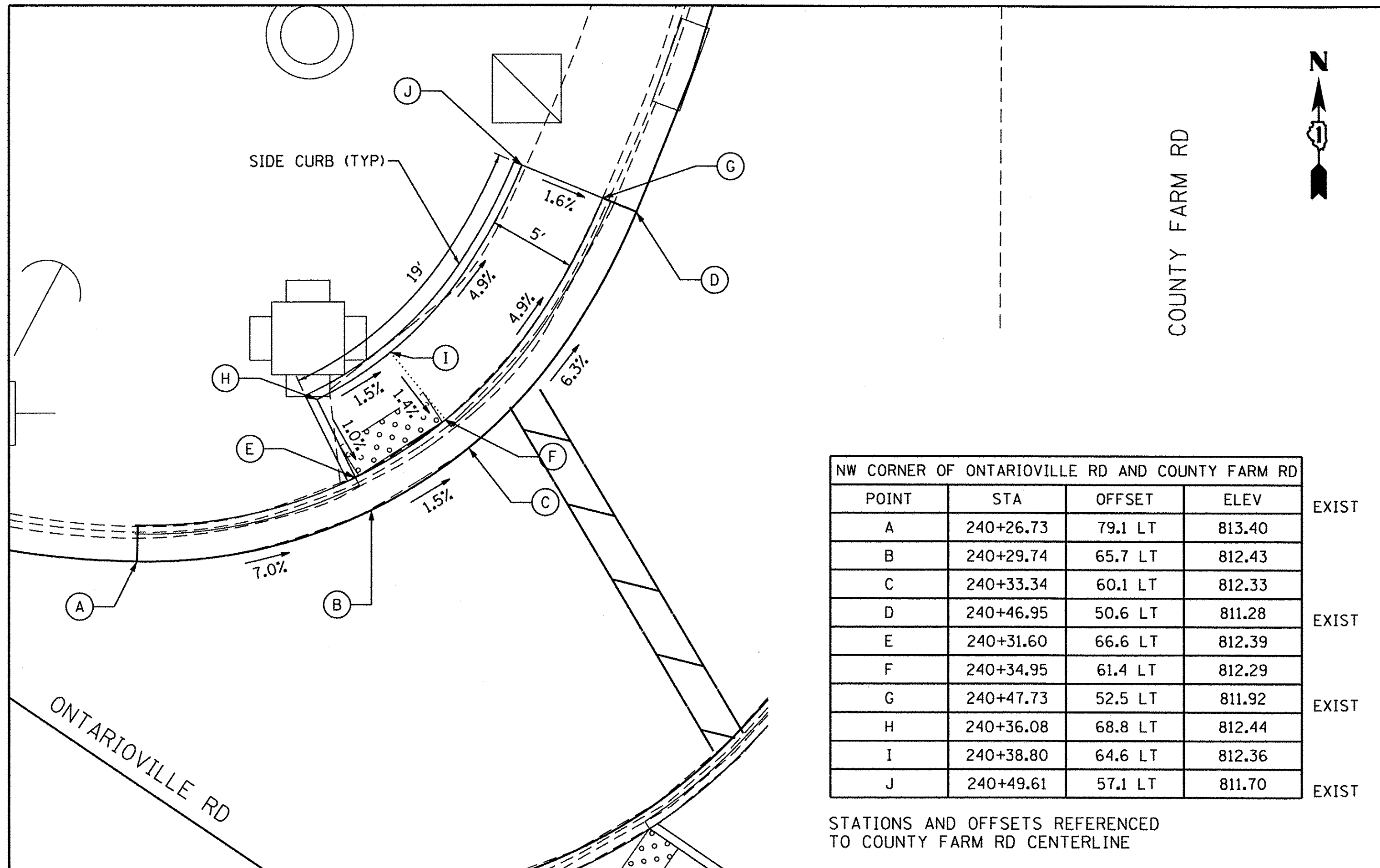
ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
2007 North Cumberland Avenue, Suite 402
Chicago, IL 60647
Tel: 773.775.4039 Fax: 773.775.4014
Email: chicago@clorba.com

| | | |
|----------------------------|------------------|-----------|
| USER NAME = mdboub | DESIGNED - ES | REVISED - |
| PLOT SCALE = 10,0000' / 1" | DRAWN - NT / AMH | REVISED - |
| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

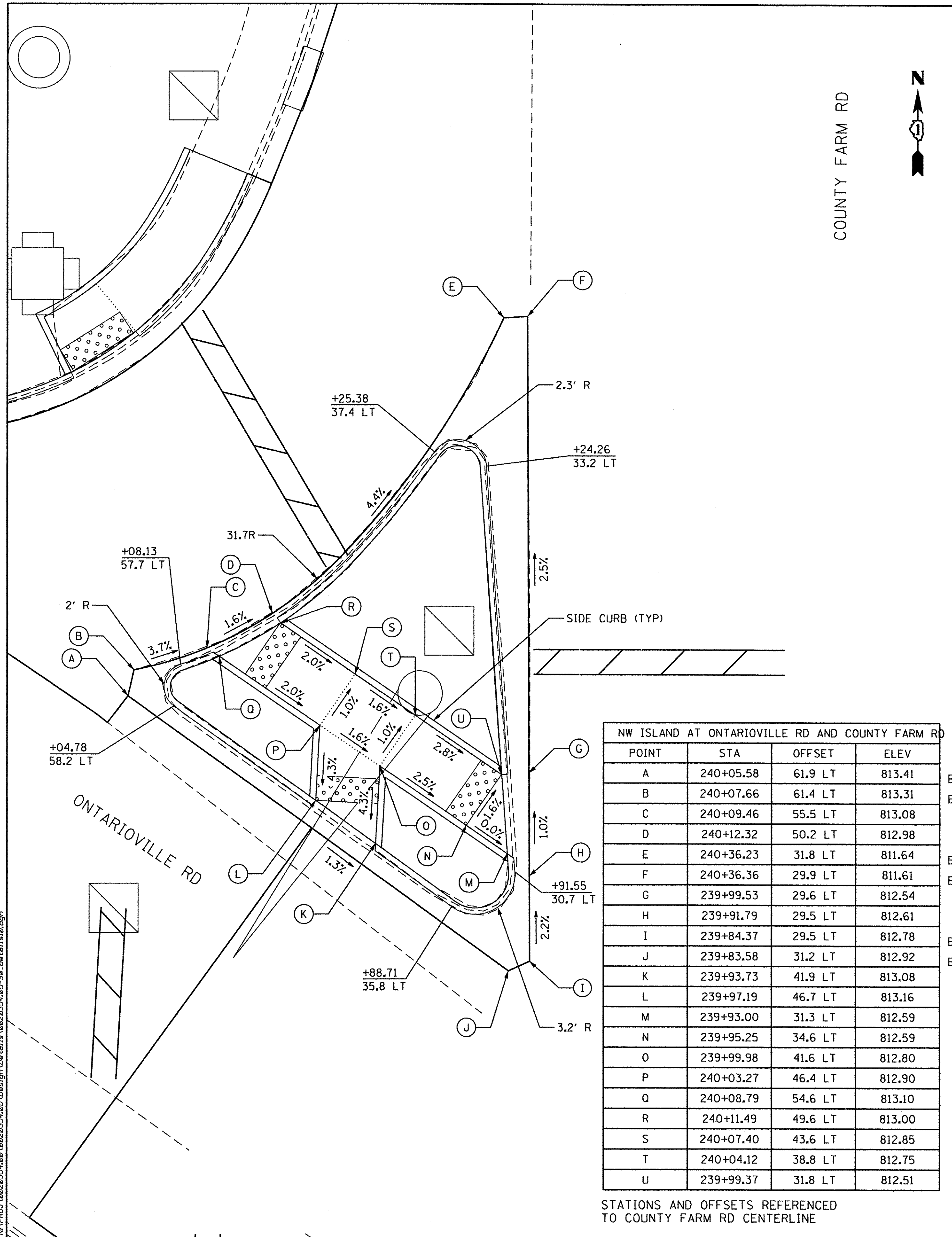
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|---|-----------|-----------|--------------|
| COUNTY FARM ROAD IMPROVEMENTS SIDEWALK DETAILS | | | |
| SCALE: 1" = 5' | SHEET NO. | OF SHEETS | STA. TO STA. |

| | | | | |
|--------------------|------------------------|---------------|-----------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 89 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |

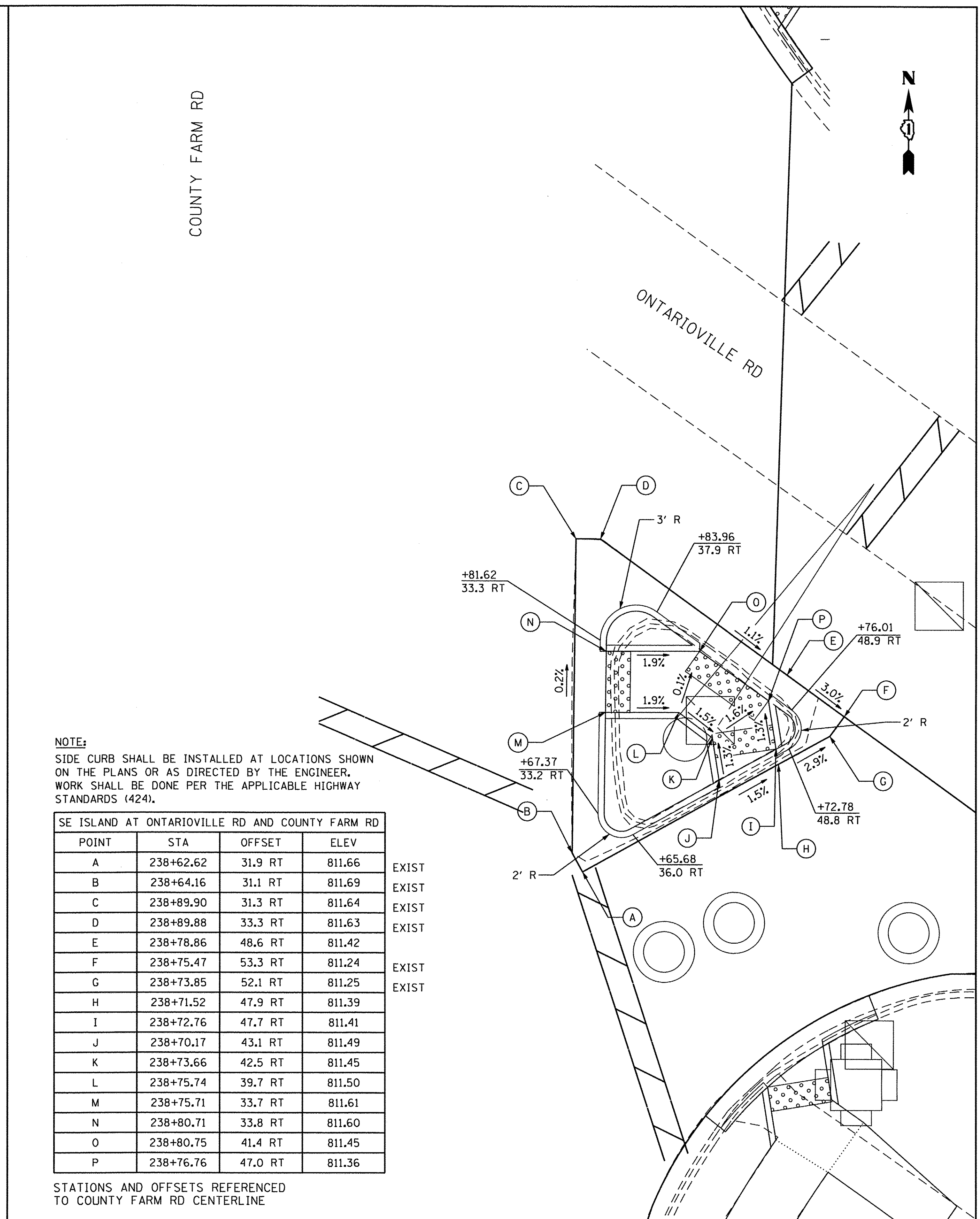


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| NW ISLAND AT ONTARIOVILLE RD AND COUNTY FARM RD | | | |
|---|-----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 240+05.58 | 61.9 LT | 813.41 |
| B | 240+07.66 | 61.4 LT | 813.31 |
| C | 240+09.46 | 55.5 LT | 813.08 |
| D | 240+12.32 | 50.2 LT | 812.98 |
| E | 240+36.23 | 31.8 LT | 811.64 |
| F | 240+36.36 | 29.9 LT | 811.61 |
| G | 239+99.53 | 29.6 LT | 812.54 |
| H | 239+91.79 | 29.5 LT | 812.61 |
| I | 239+84.37 | 29.5 LT | 812.78 |
| J | 239+83.58 | 31.2 LT | 812.92 |
| K | 239+93.73 | 41.9 LT | 813.08 |
| L | 239+97.19 | 46.7 LT | 813.16 |
| M | 239+93.00 | 31.3 LT | 812.59 |
| N | 239+95.25 | 34.6 LT | 812.59 |
| O | 239+99.98 | 41.6 LT | 812.80 |
| P | 240+03.27 | 46.4 LT | 812.90 |
| Q | 240+08.79 | 54.6 LT | 813.10 |
| R | 240+11.49 | 49.6 LT | 813.00 |
| S | 240+07.40 | 43.6 LT | 812.85 |
| T | 240+04.12 | 38.8 LT | 812.75 |
| U | 239+99.37 | 31.8 LT | 812.51 |

STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE



| SE ISLAND AT ONTARIOVILLE RD AND COUNTY FARM RD | | | |
|---|-----------|---------|--------|
| POINT | STA | OFFSET | ELEV |
| A | 238+62.62 | 31.9 RT | 811.66 |
| B | 238+64.16 | 31.1 RT | 811.69 |
| C | 238+89.90 | 31.3 RT | 811.64 |
| D | 238+89.88 | 33.3 RT | 811.63 |
| E | 238+78.86 | 48.6 RT | 811.42 |
| F | 238+75.47 | 53.3 RT | 811.24 |
| G | 238+73.85 | 52.1 RT | 811.25 |
| H | 238+71.52 | 47.9 RT | 811.39 |
| I | 238+72.76 | 47.7 RT | 811.41 |
| J | 238+70.17 | 43.1 RT | 811.49 |
| K | 238+73.66 | 42.5 RT | 811.45 |
| L | 238+75.74 | 39.7 RT | 811.50 |
| M | 238+75.71 | 33.7 RT | 811.61 |
| N | 238+80.71 | 33.8 RT | 811.60 |
| O | 238+80.75 | 41.4 RT | 811.45 |
| P | 238+76.76 | 47.0 RT | 811.36 |

STATIONS AND OFFSETS REFERENCED TO COUNTY FARM RD CENTERLINE

NOTE:
SIDE CURB SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WORK SHALL BE DONE PER THE APPLICABLE HIGHWAY STANDARDS (424).

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| | | | | |
|--|----------------------------|-----------------|-----------|--|
| <p>ENGINEERING CONSULTANT CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60630 Tel: 773.775.2000 Fax: 773.775.4014 Email: clorba@clorba.com</p> | USER NAME = mdaboub | DESIGNED - ES | REVISED - | |
| | PLOT SCALE = 10.0000' / 1" | CHECKED - ES | REVISED - | |
| | PLOT DATE = 3/8/2017 | DATE - JAN 2017 | REVISED - | |
| | | | | |

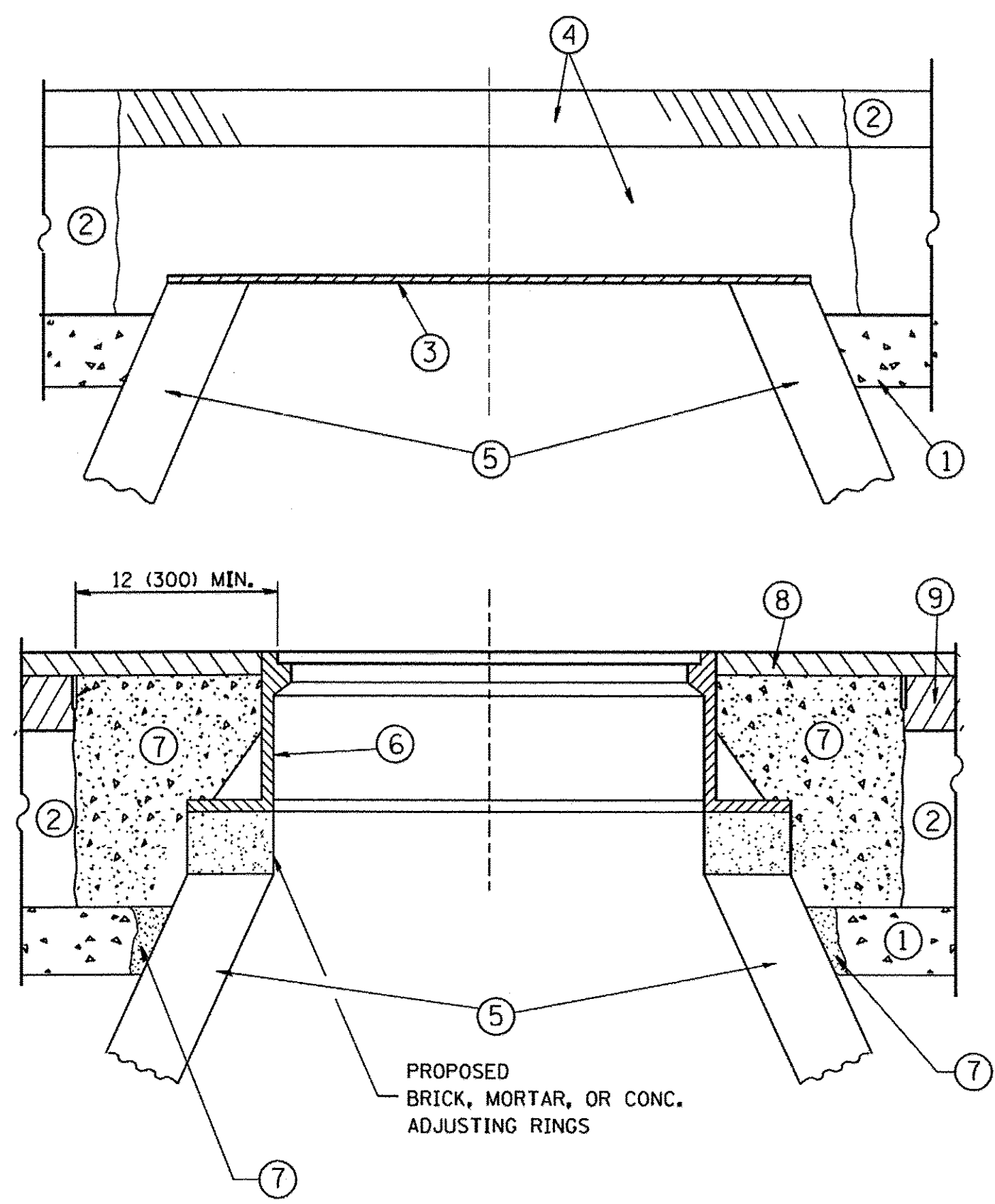
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY FARM ROAD IMPROVEMENTS
SIDEWALK DETAILS

SCALE: 1" = 5'

SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|--------------------|------------------------|---------------|-----------------|---------------------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 91 |
| CONTRACT NO. 61D62 | | | | ILLINOIS FED. AID PROJECT |



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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

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

NOTES:

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

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

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

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

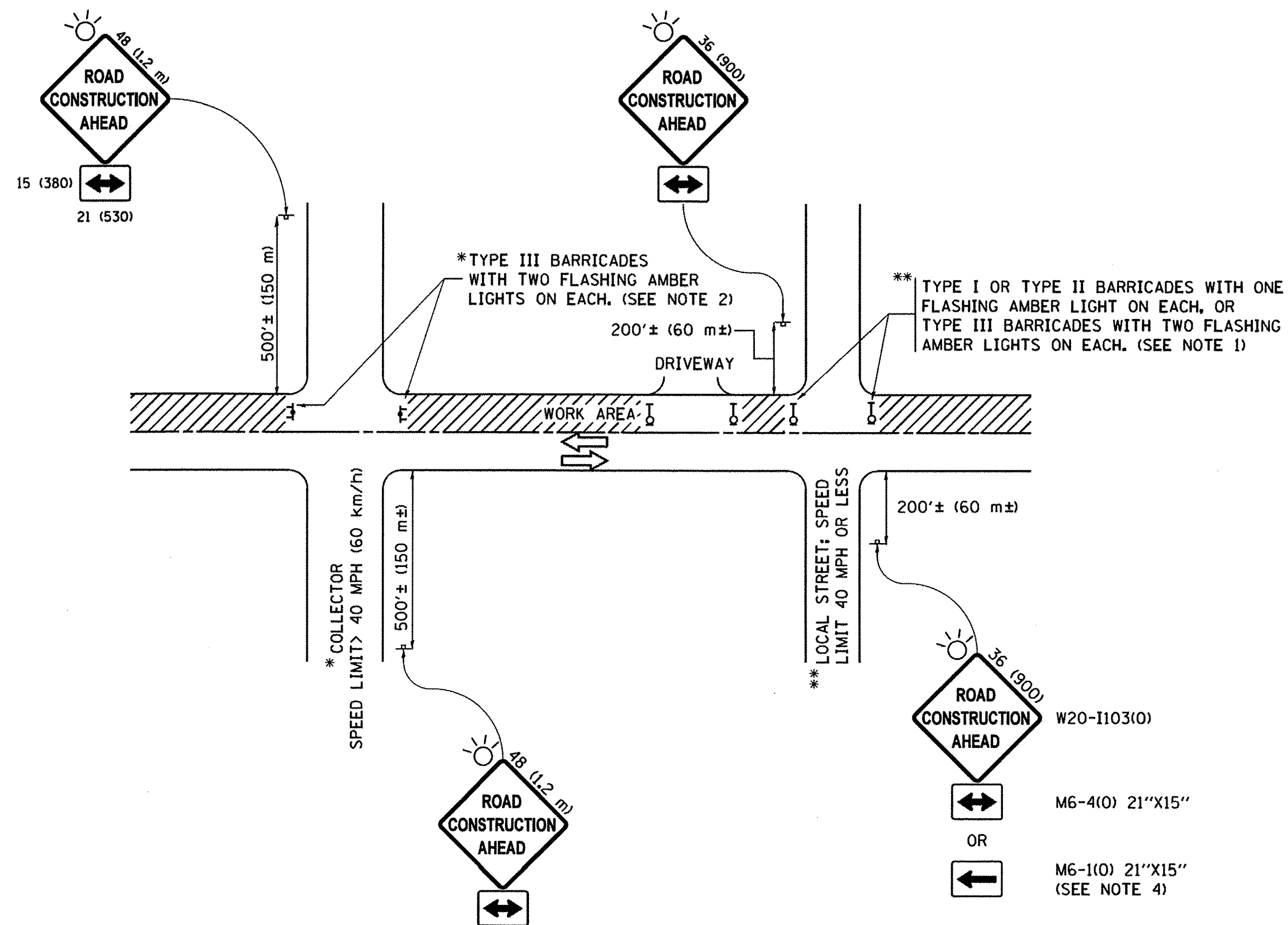
WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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| FILE NAME = | USER NAME = bauerdl | DESIGNED - R. SHAH | REVISED - R. WIEDEMAN 05-14-04 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING | | RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ct:\pw\work\p\dot\bauerdl\d0108315\bd06.dgn | | DRAWN - | REVISED - R. BORO 01-01-07 | | 362 | 14-00179-31-SP | DUPAGE | 99 | 92 | | |
| PLOT SCALE = 1/68.5000' / m | CHECKED - | REVISED - R. BORO 03-09-11 | | | BD600-03 (BD-8) | | CONTRACT NO. 61D62 | | | | |
| PLOT DATE = 12/6/2011 | DATE - 10-25-94 | REVISED - R. BORO 12-06-11 | | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | |



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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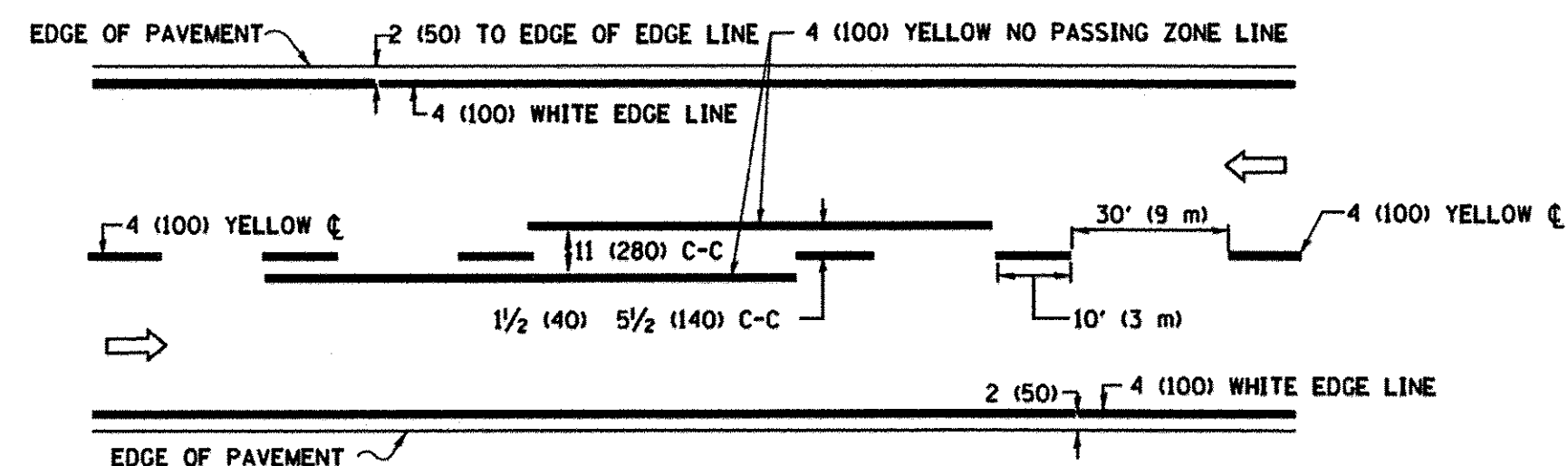
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| Default | PLOT SCALE = 50,000' / 1" = | DATE - 06-89 | REVISED - A. SCHUETZE 07-01-13 |
| | PLOT DATE = 9/15/2016 | | REVISED - A. SCHUETZE 09-15-16 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

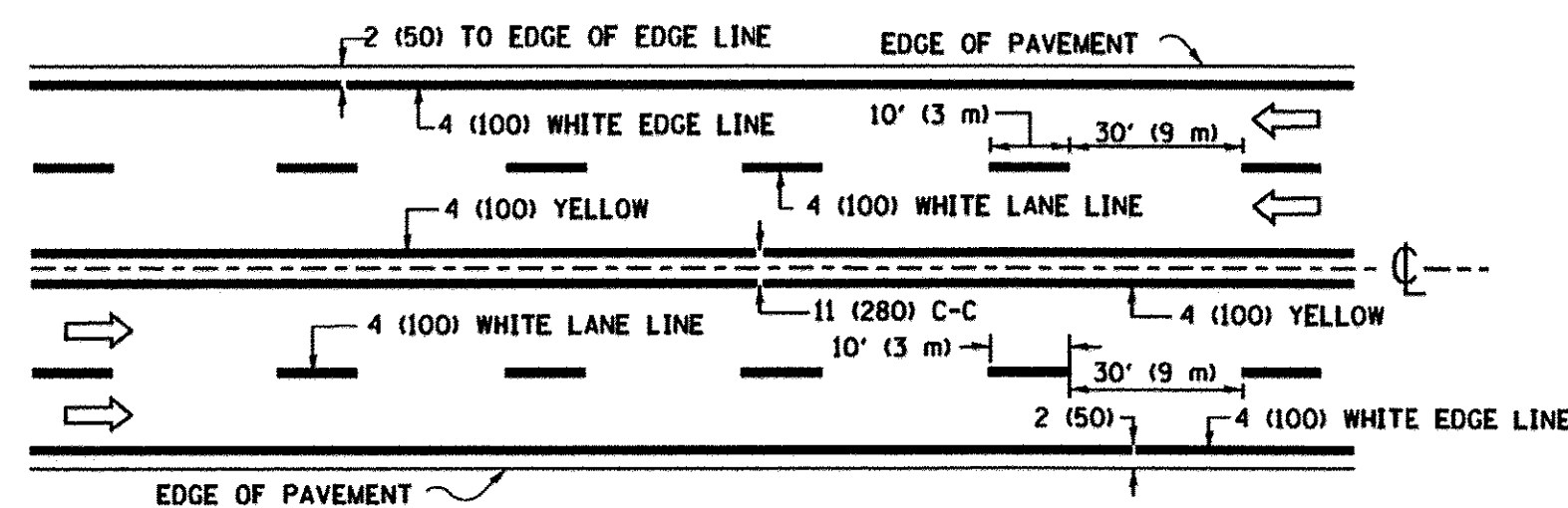
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

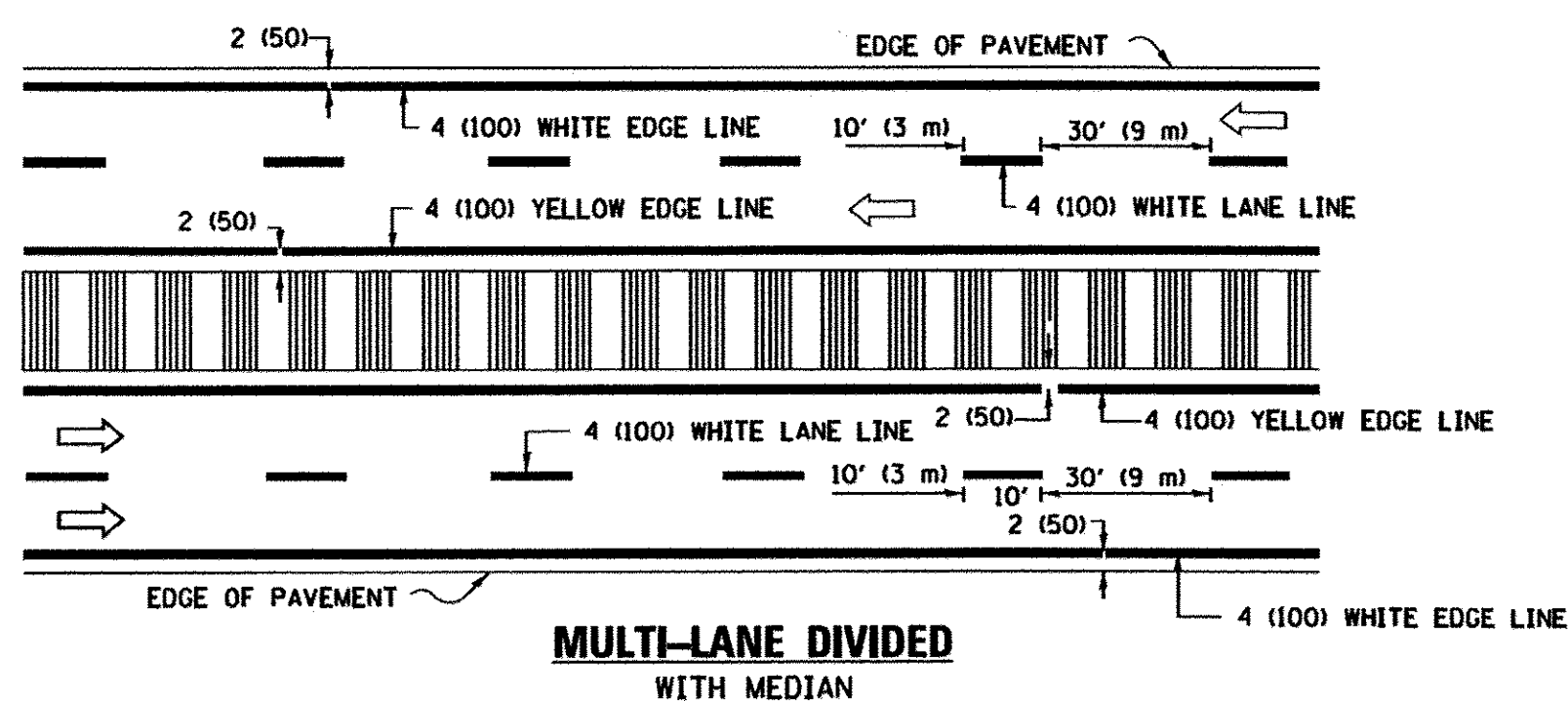
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| RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 362 | 14-00179-31-SP | DUPAGE | 99 | 93 |
| TC-10 | | CONTRACT NO. | 61D62 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



2-LANE ROADWAY

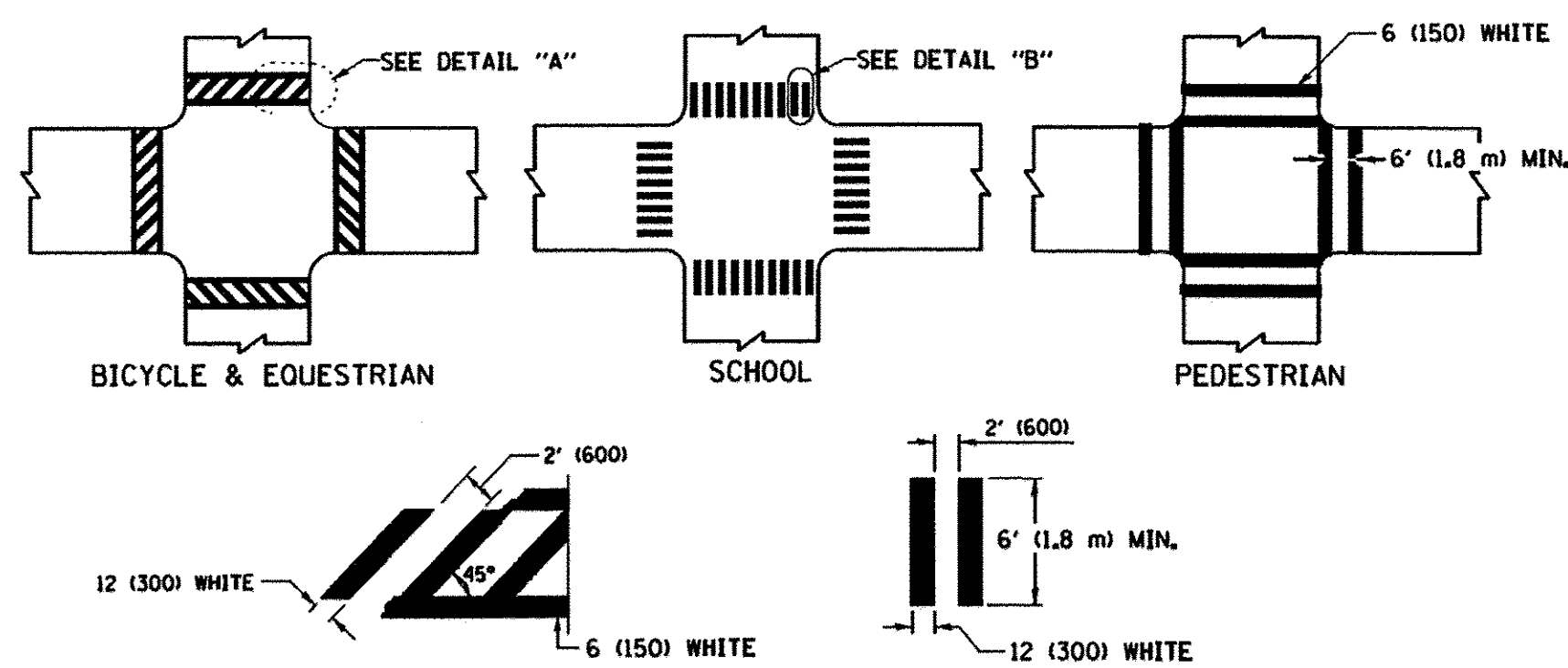


MULTI-LANE UNDIVIDED



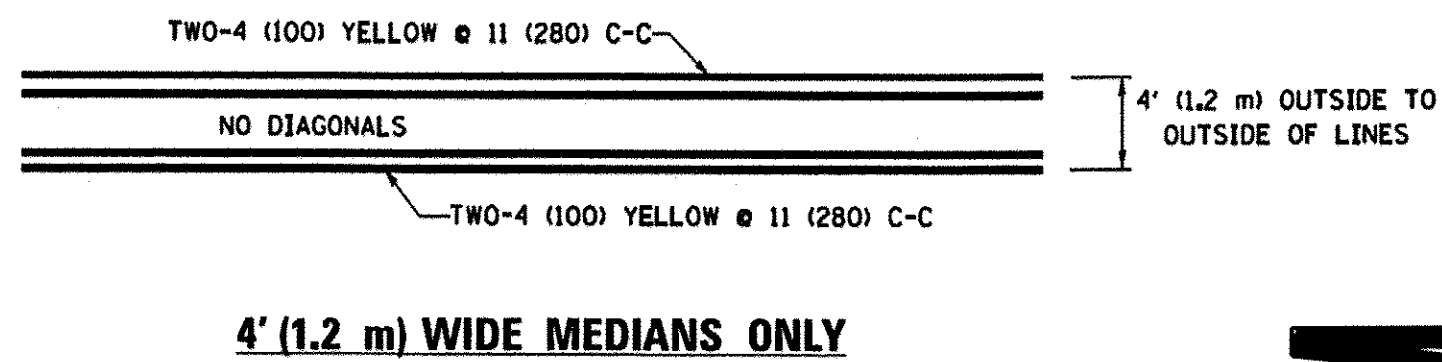
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

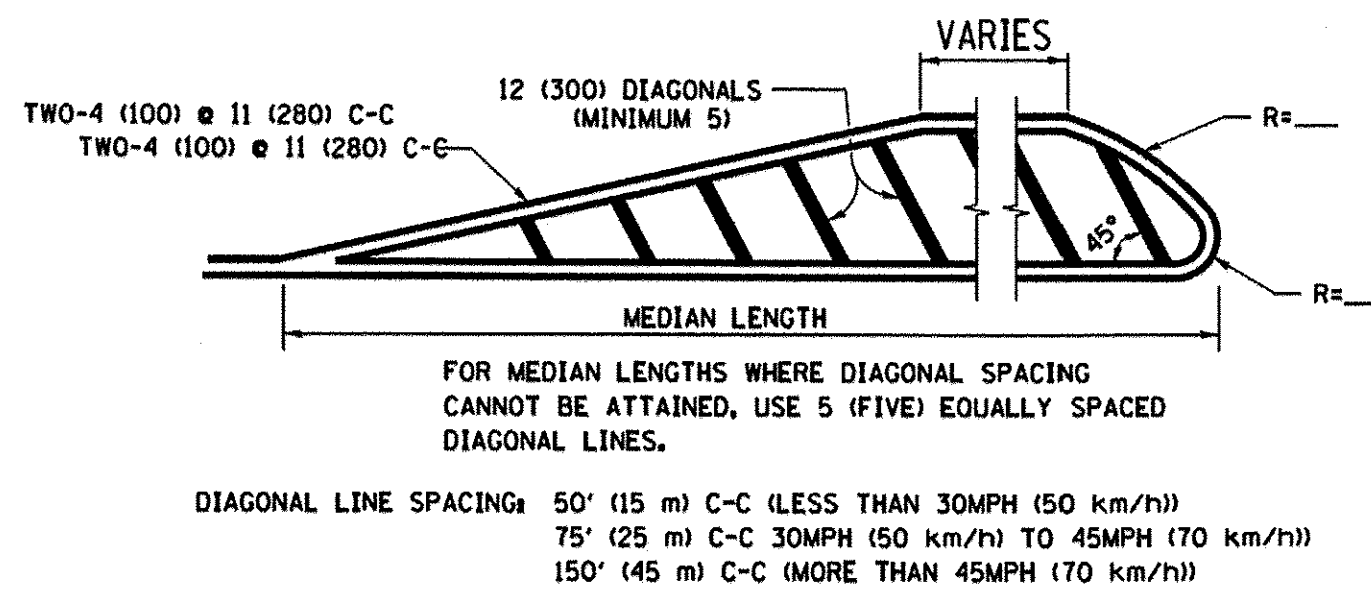


TYPICAL CROSSWALK MARKING

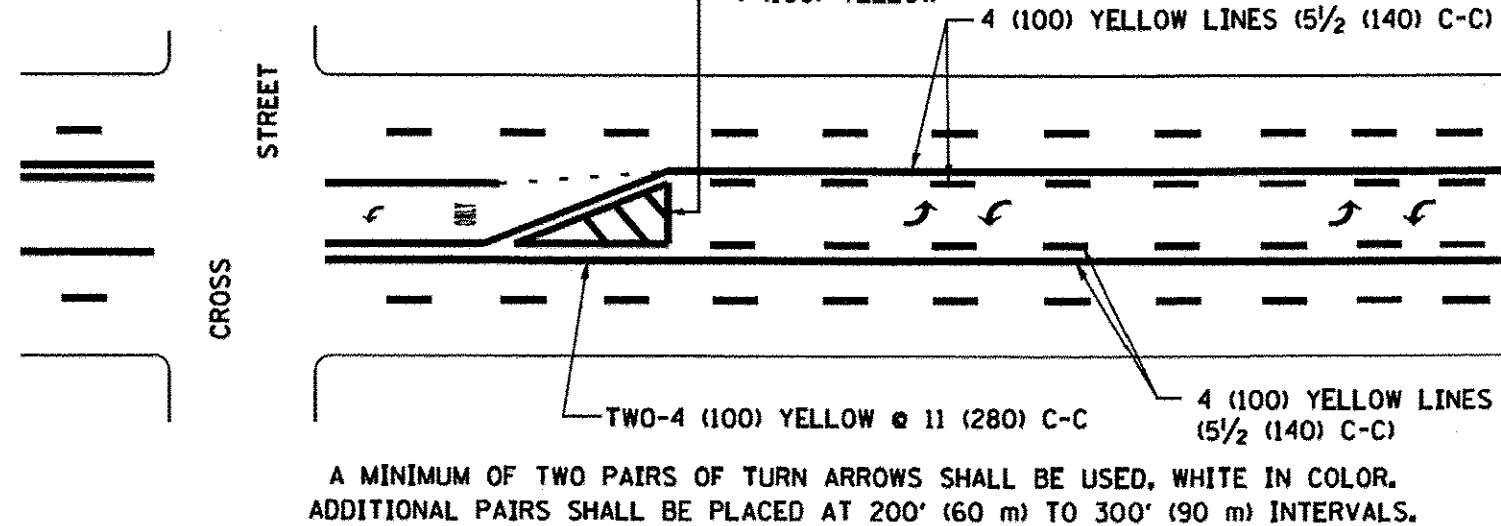
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



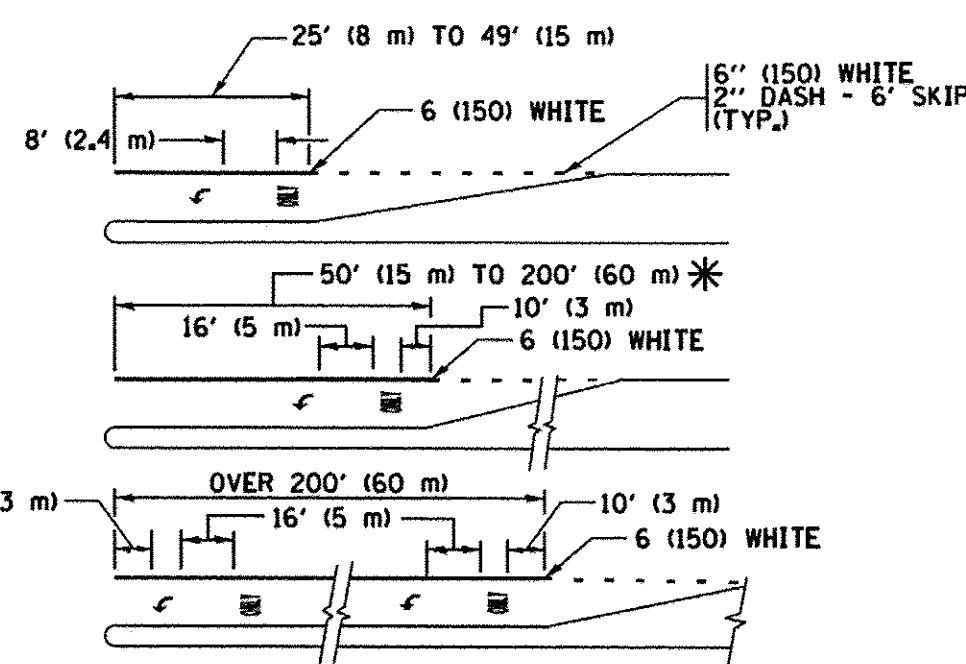
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



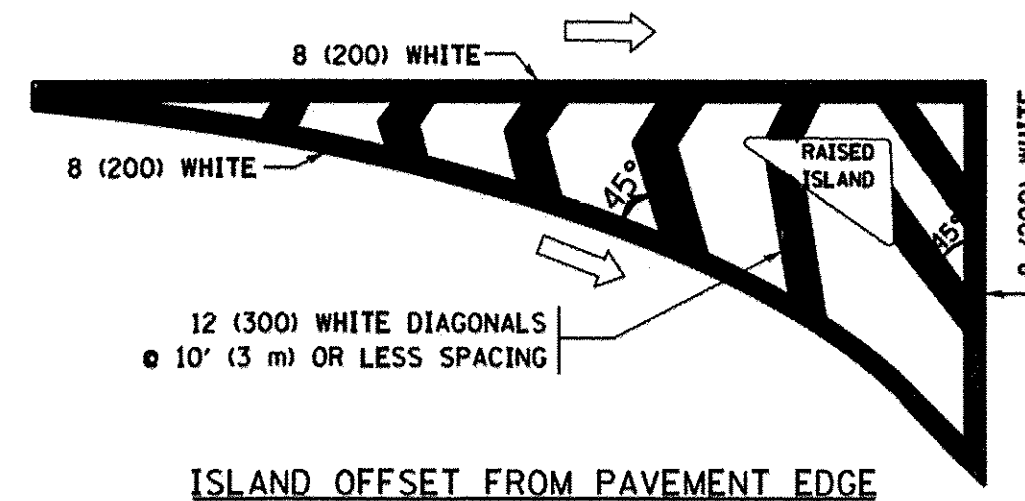
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



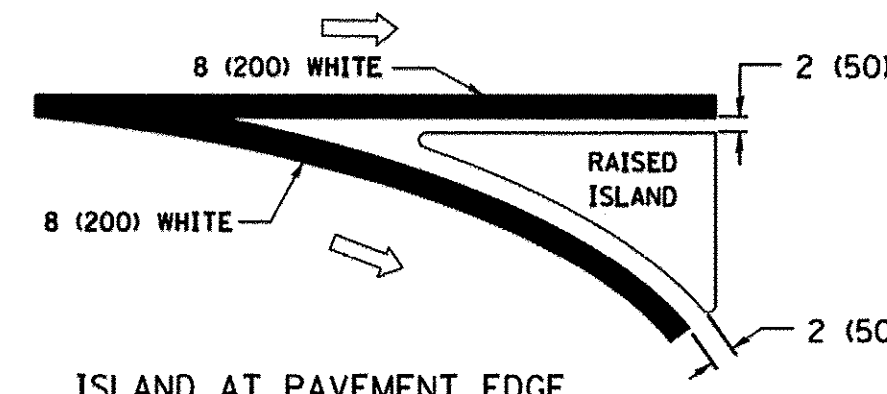
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

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

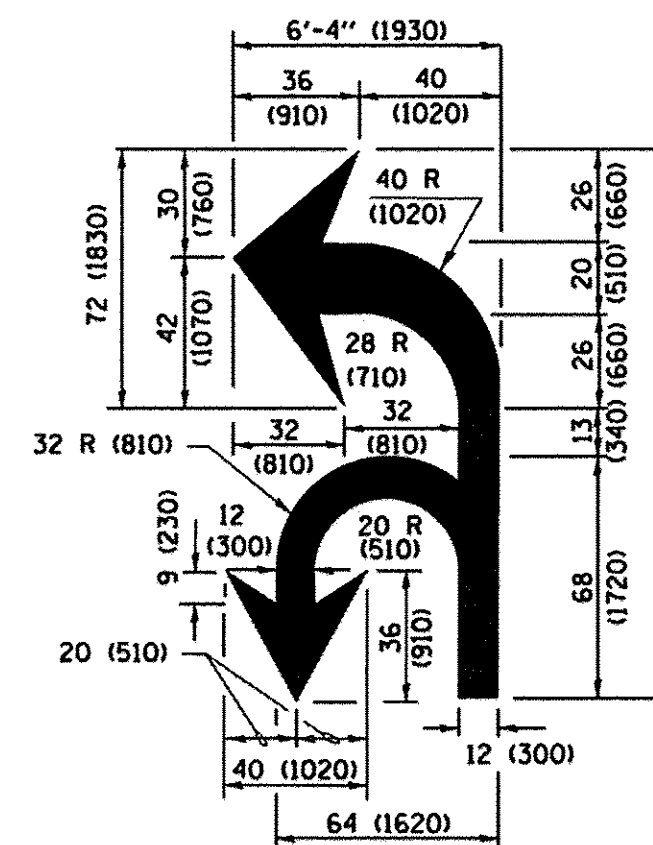


ISLAND OFFSET FROM PAVEMENT EDGE

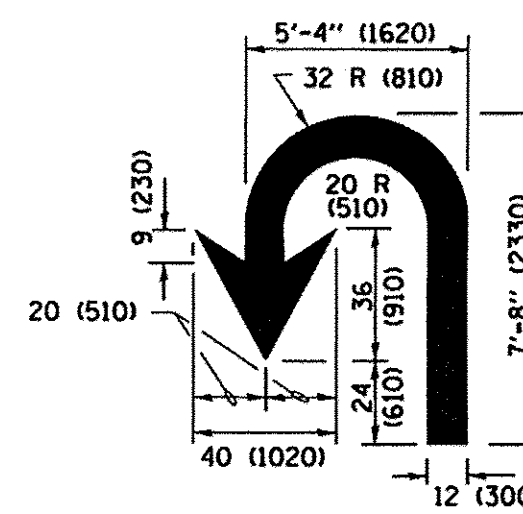


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING /REMARKS |
|---|--|------------------------------|---|---|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5/2 (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 MEDIANS IN YELLOW |
| TURN LANE MARKINGS | 6 (150) LINE, FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE. |
| PAINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW WHITE WHITE ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| CORE 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 "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" "X"=54.0 SQ. FT. (5.0 m ²) |
| SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8') | 12 (300) @ 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h)) |
| U TURN ARROW | SEE DETAIL | SOLID | WHITE | 16.3 SF |
| 2 ARROW COMBINATION LEFT AND U TURN | SEE DETAIL | SOLID | WHITE | 30.4 SF |

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

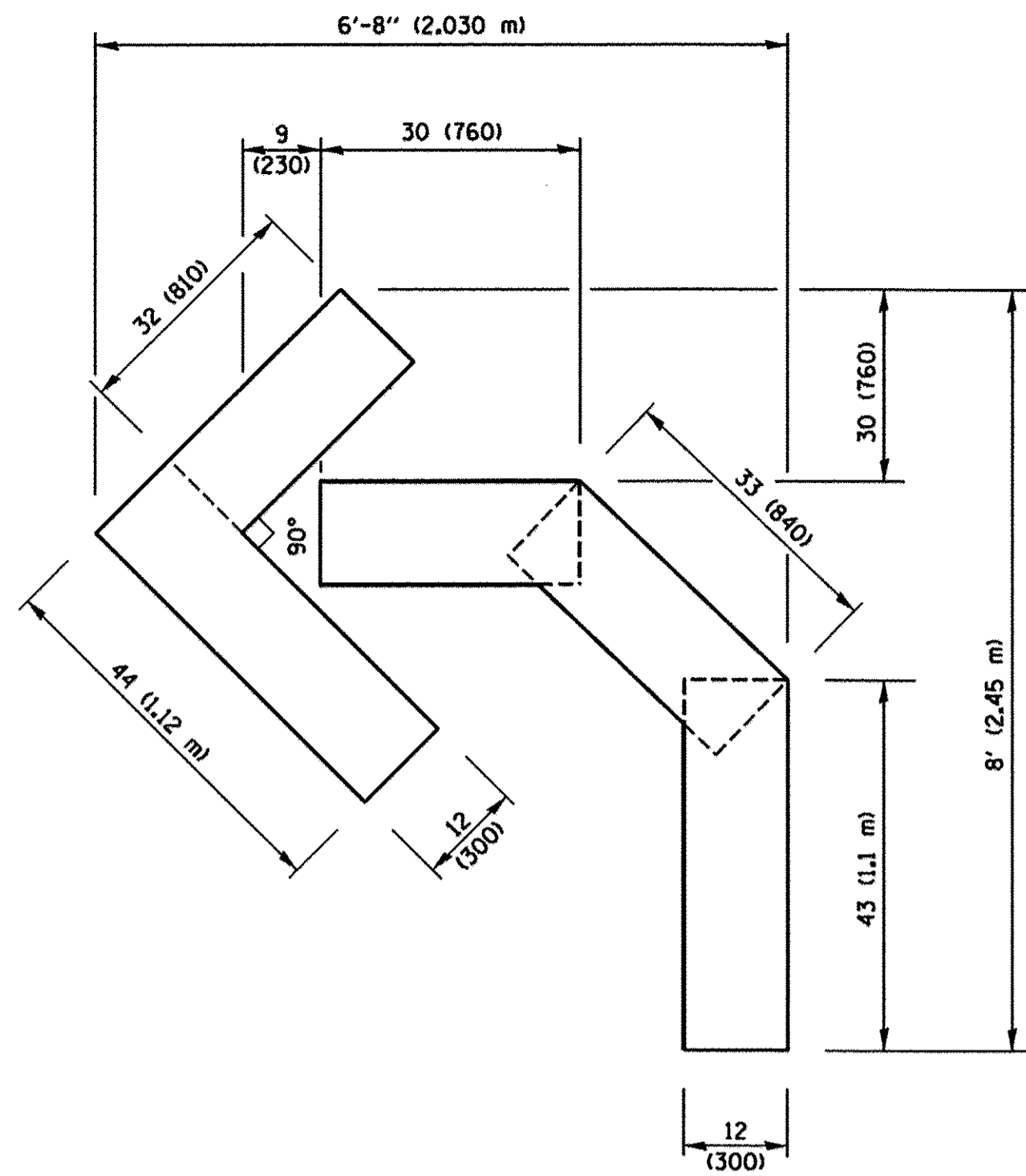
All dimensions are in Inches (millimeters) unless otherwise shown.

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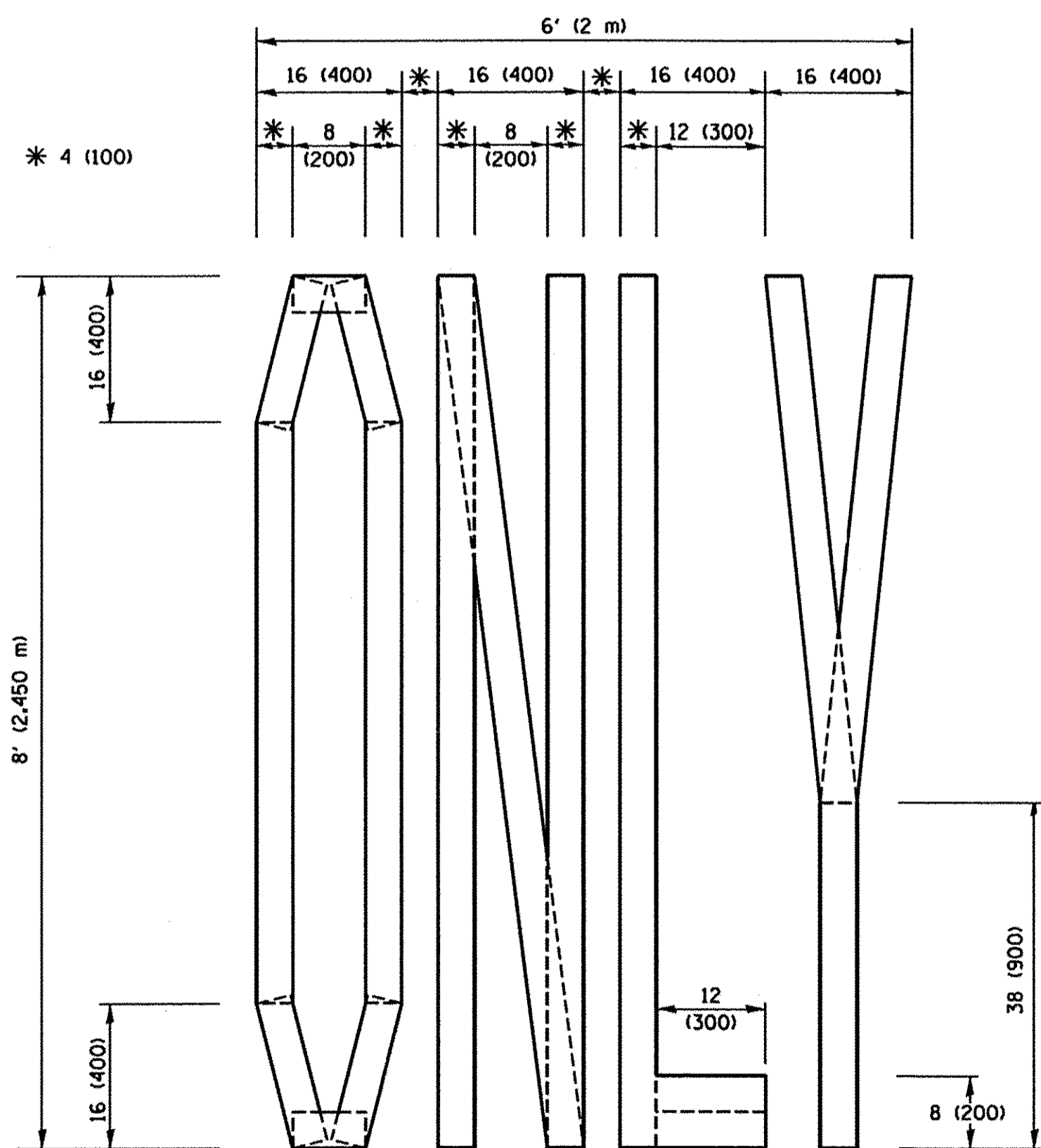
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

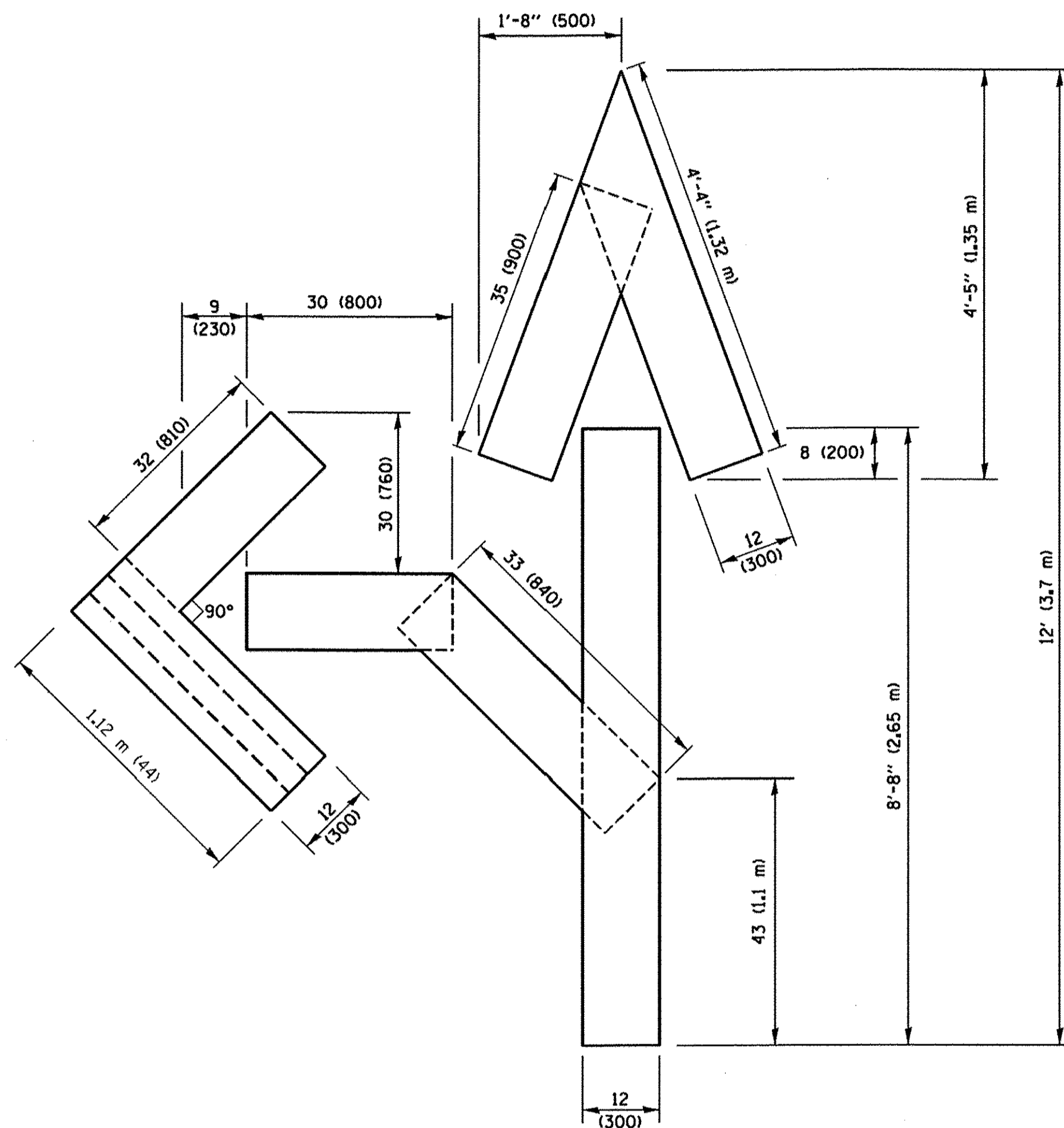
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| DISTRICT ONE | | RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| TYPICAL PAVEMENT MARKINGS | | 362 | 14-00179-31-SP | DUPAGE | 99 | 94 |
| SCALE: NONE | | TC-13 | | CONTRACT NO. | 61D62 | |
| SHEET 1 OF 1 SHEETS | | ILLINOIS | | FED. ROAD DIST. NO. 1 | | |
| STA. TO STA. | | FED. AID PROJECT | | | | |



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

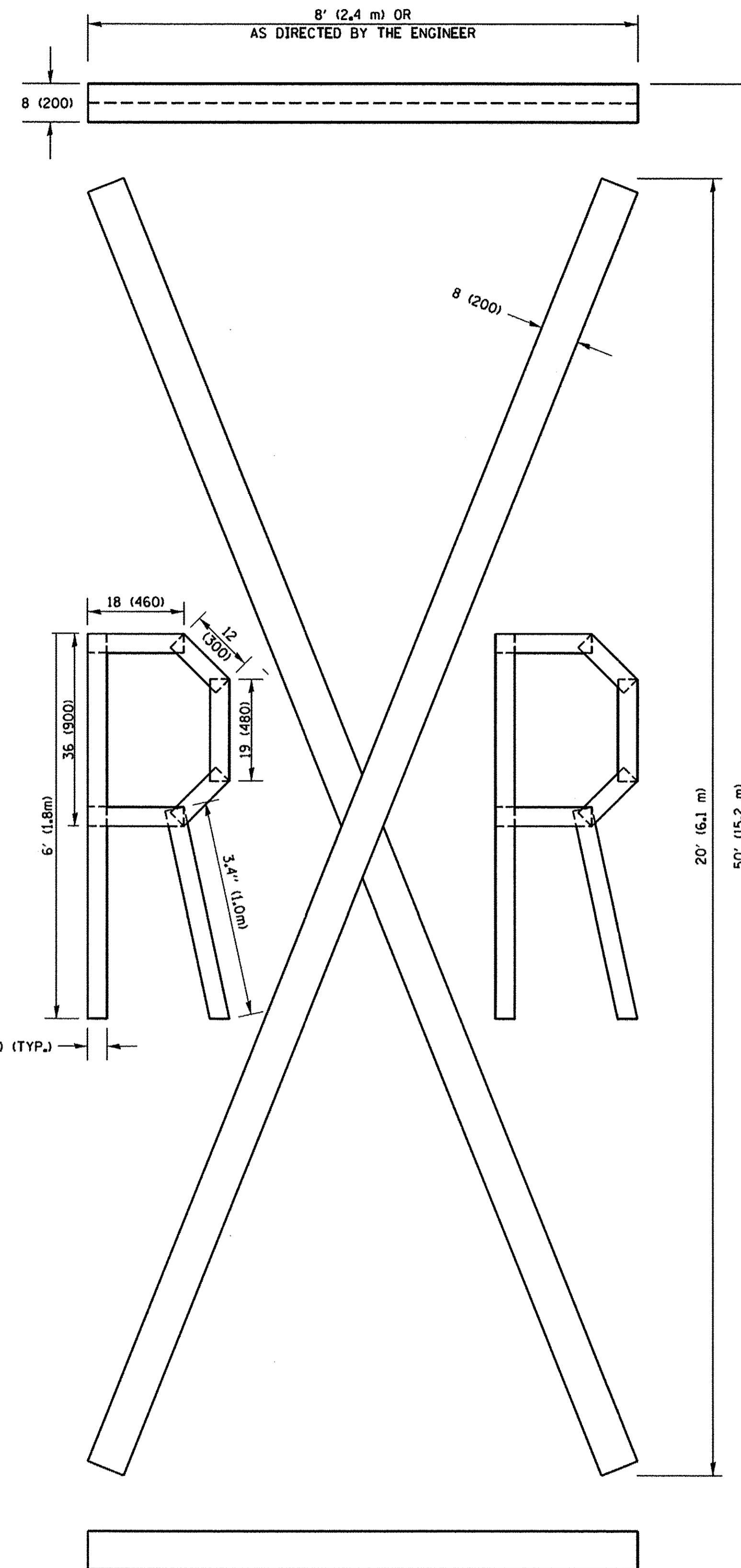


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



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

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



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

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

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| | | DATE - 09-18-94 | REVISED -E. GOMEZ 08-28-00 |
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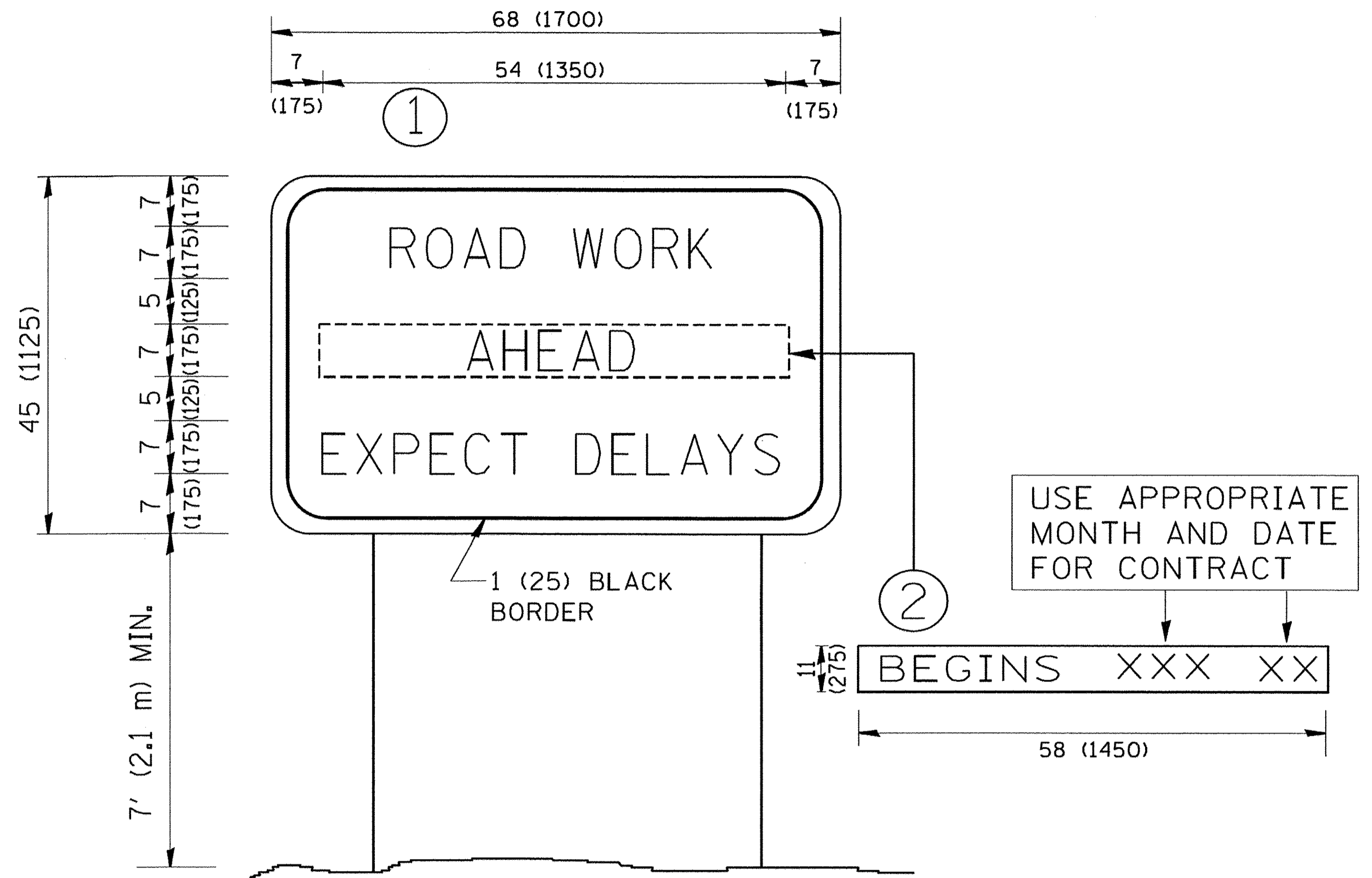
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

| ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|----------------|--------|--------------------|-----------|
| 362 | 14-00179-31-SP | DUPAGE | 99 | 95 |
| TC-16 | | | CONTRACT NO. 61D62 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

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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.

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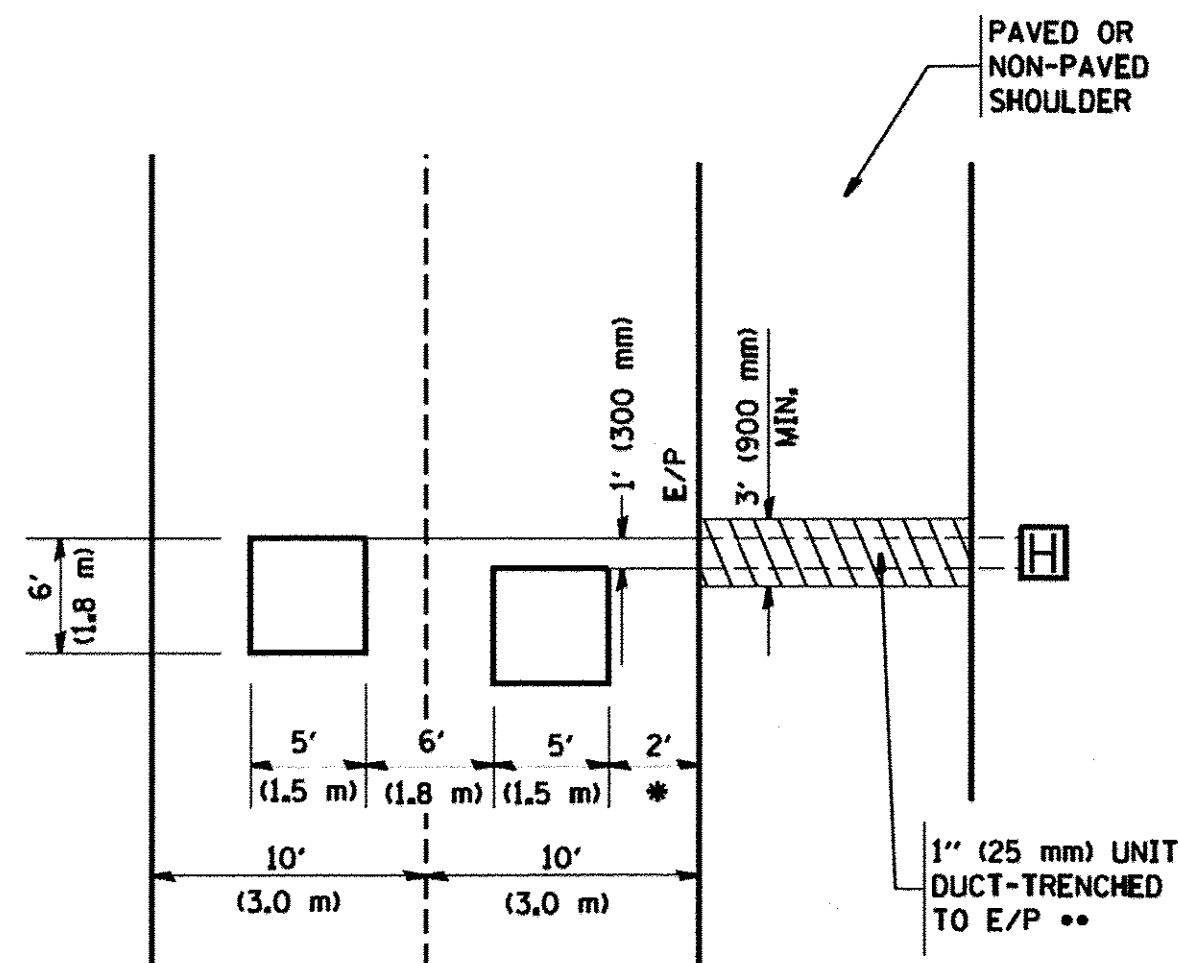
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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| ARTERIAL ROAD INFORMATION SIGN | | RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | 362 | 14-00179-31-SP | DUPAGE | 99 | 96 |
| | STA. TO STA. | TC-22 | | CONTRACT NO. | 61D62 | |

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

LOOPS NEXT TO SHOULDERS

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



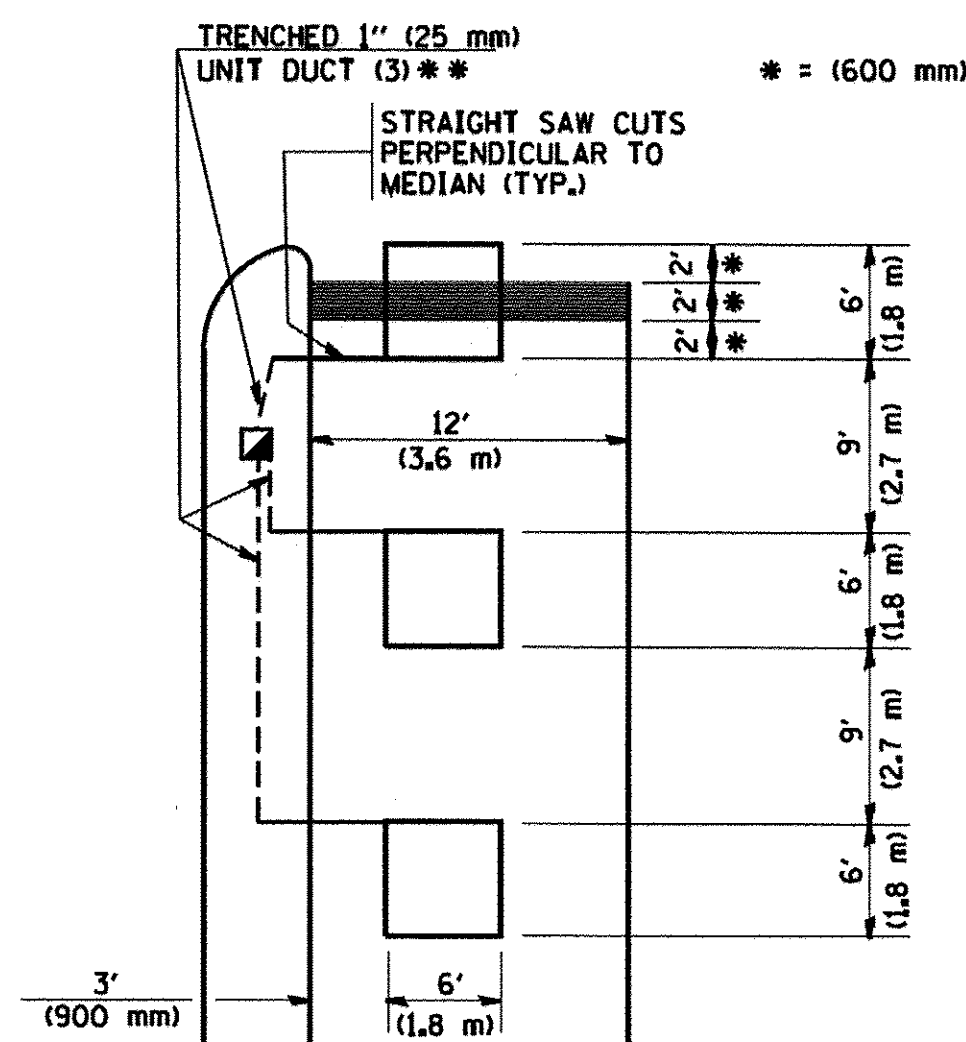
* = (600 mm)

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

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

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

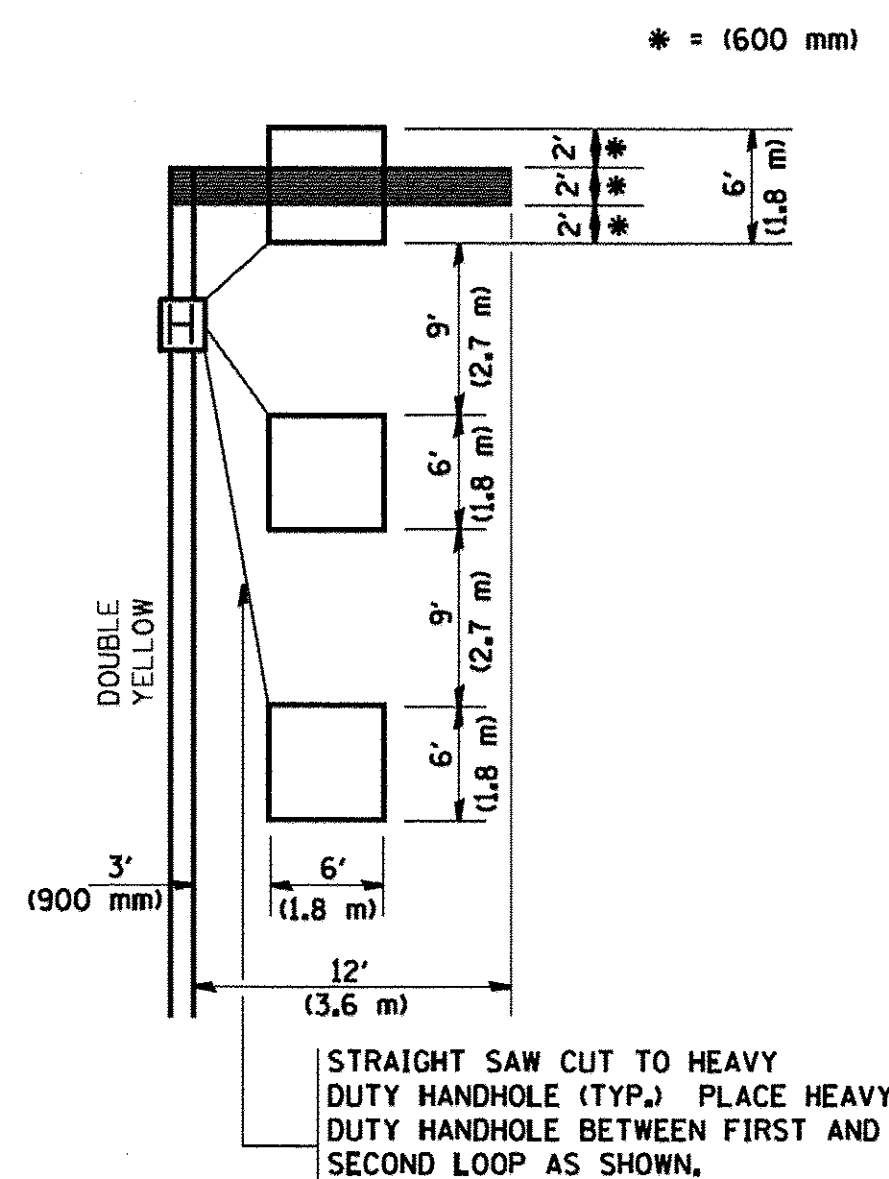


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

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

(PROTECTED / PERMITTED LEFT TURN PHASING)



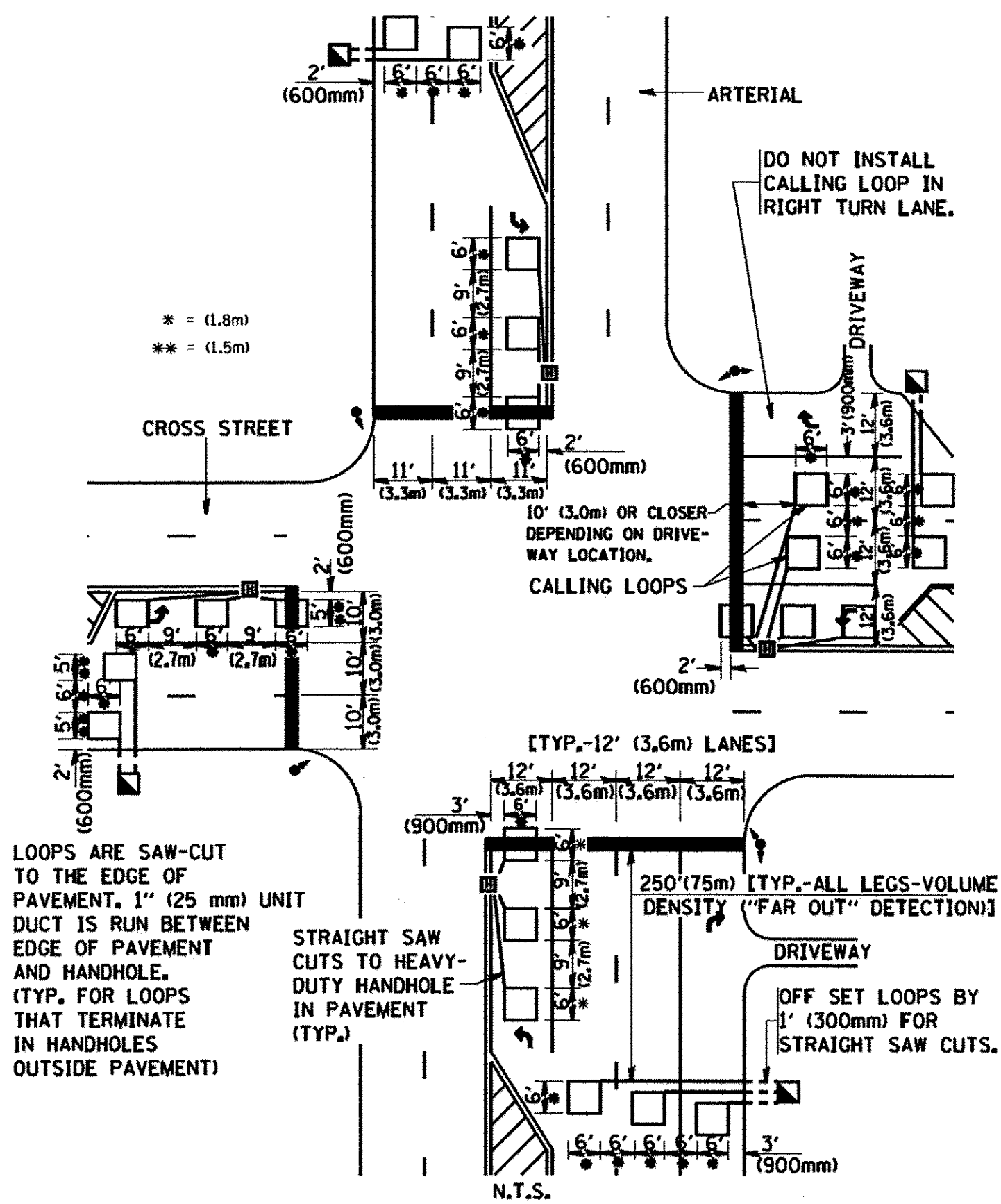
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

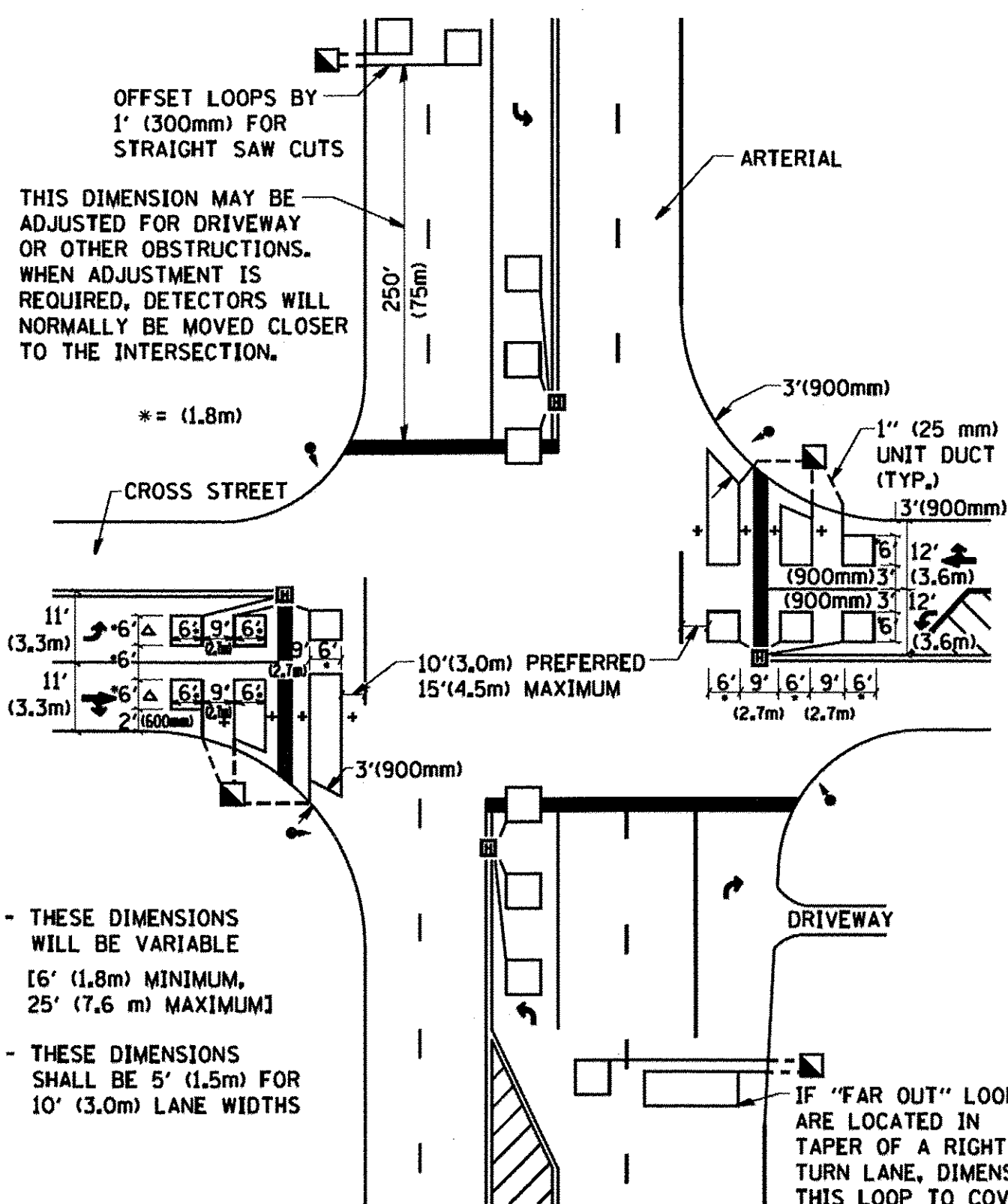
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST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

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



**DETAIL 1
N.T.S.**

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



**DETAIL 2
N.T.S.**

PLACEMENT OF DETECTORS

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

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

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

NOTE:

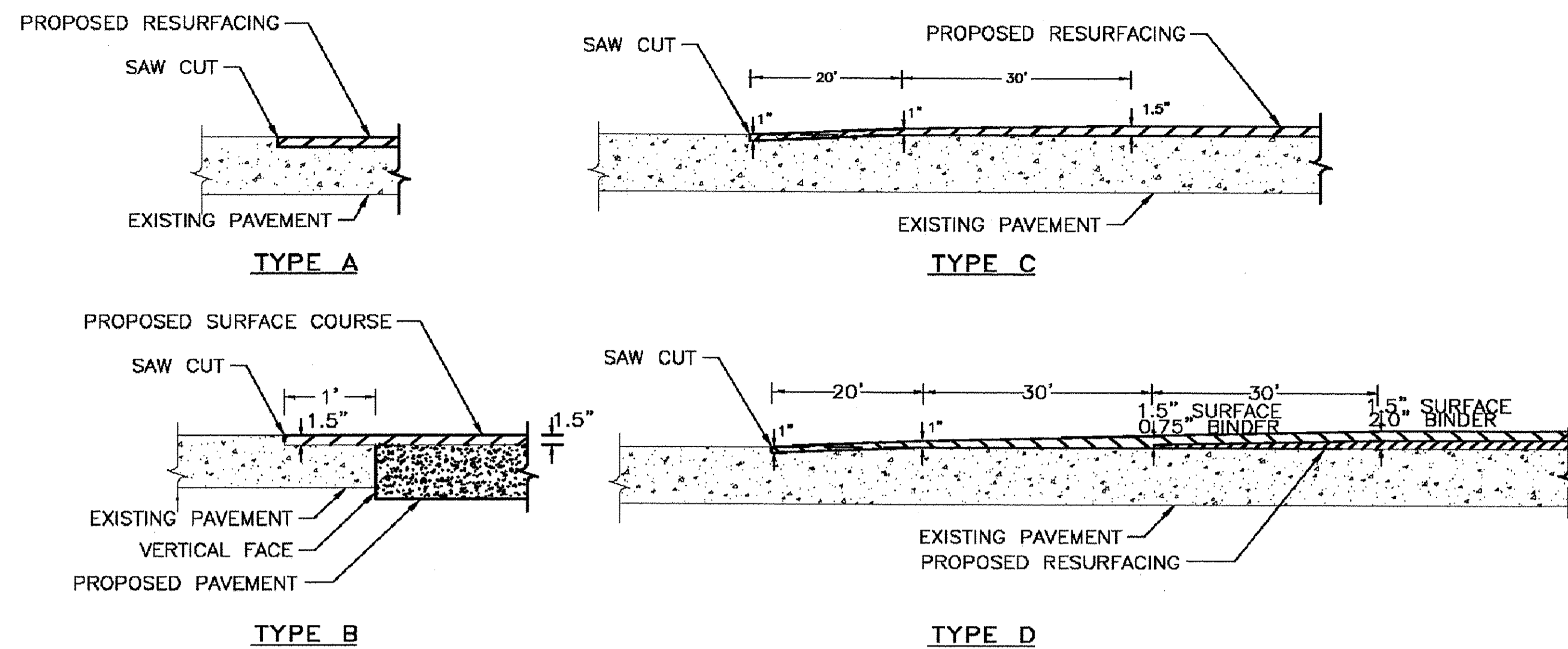
ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

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

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| PLOT SCALE = 50.0000' / IN. | CHECKED - R.K.F. | REVISED - REVISED - | REVISED - REVISED - | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | TS-07 | | CONTRACT NO. 61D62 | |
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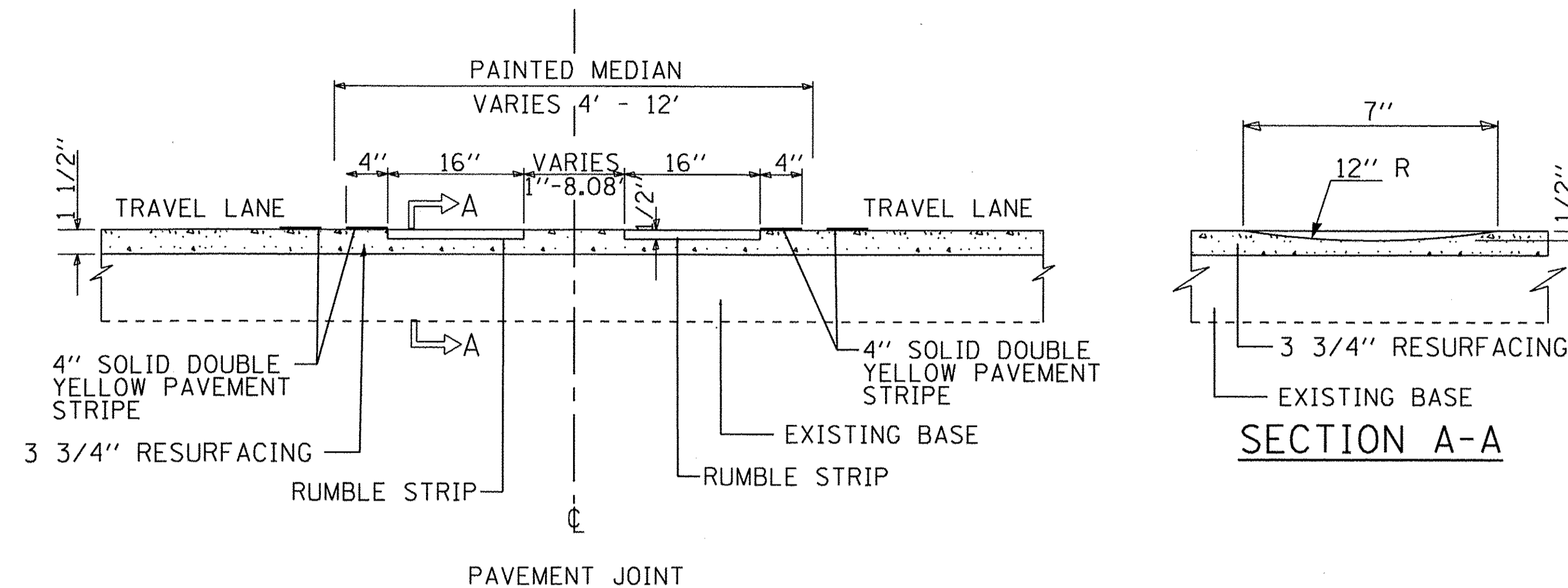
BUTT JOINT DETAILS



NOTES

SAW CUT SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST FOR BITUMINOUS SURFACE REMOVAL OR PAVEMENT REMOVAL

CENTERLINE - RUMBLE STRIP DETAIL



05/15/2008
 77-7801 Joint.DWG

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ENGINEERING CONSULTANT
Clorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60630
 Tel. 773.775.4009 Fax 773.775.4014
 Email: chicago@clorba.com

| | | |
|----------------------------|------------------|-----------|
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| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
 DUPAGE COUNTY DETAILS**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

| FAP RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 362 | 14-00179-31-SP | DUPAGE | 99 | 98 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |

PAVEMENT MARKINGS AND PAVEMENT MARKERS

MATERIALS FOR PAVEMENT MARKINGS:

| LOCATION | MATERIAL |
|-------------------------------------|---------------------------------|
| ALL MARKINGS ON BITUMINOUS PAVEMENT | THERMOPLASTIC PAVEMENT MARKINGS |
| ALL MARKINGS ON CONCRETE SURFACES | URETHANE PAVEMENT MARKINGS |

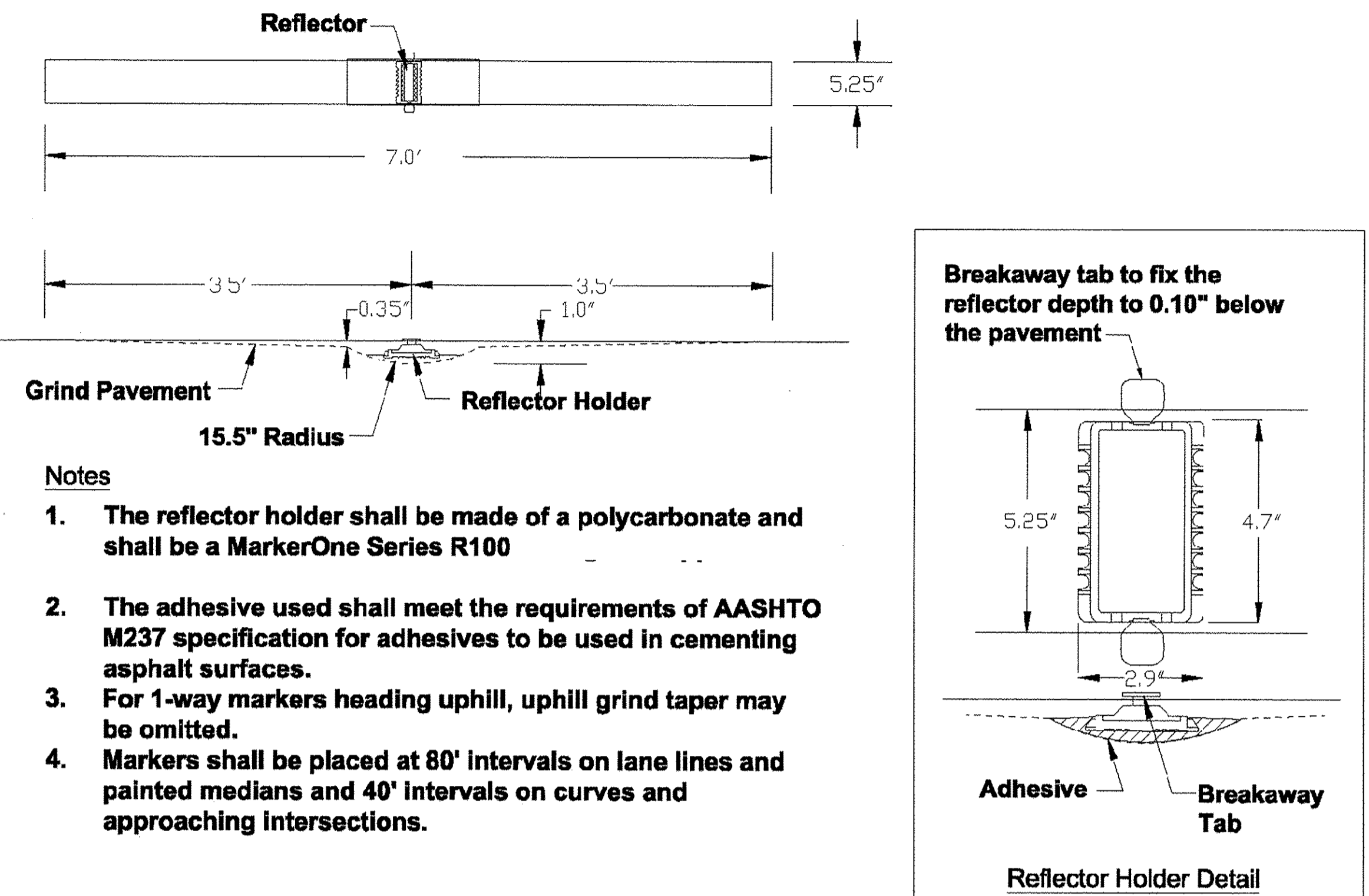
INSTALLATION OF PAVEMENT MARKINGS:

| LOCATION | TYPE OF MARKING |
|---|---|
| PAINTED MEDIANS | 4" DOUBLE YELLOW; 11" c-c AND 12" YELLOW @ 45°; 30" c-c |
| BARRIER MEDIANS | 4" YELLOW |
| TURN BAY TAPERS ALONG THRU LANES | 6" WHITE, 2' LONG, 6' SPACE (DOTTED WHITE) |
| START OF TURN BAYS | ARROW AND "ONLY" |
| END OF TURN BAYS 150'-200' LONG | ADDITIONAL ARROW 10' FROM END |
| TURN BAYS > 200' LONG | ADDITIONAL "ONLY" |
| ALL OTHER MARKINGS PER MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OF ILLINOIS. | |

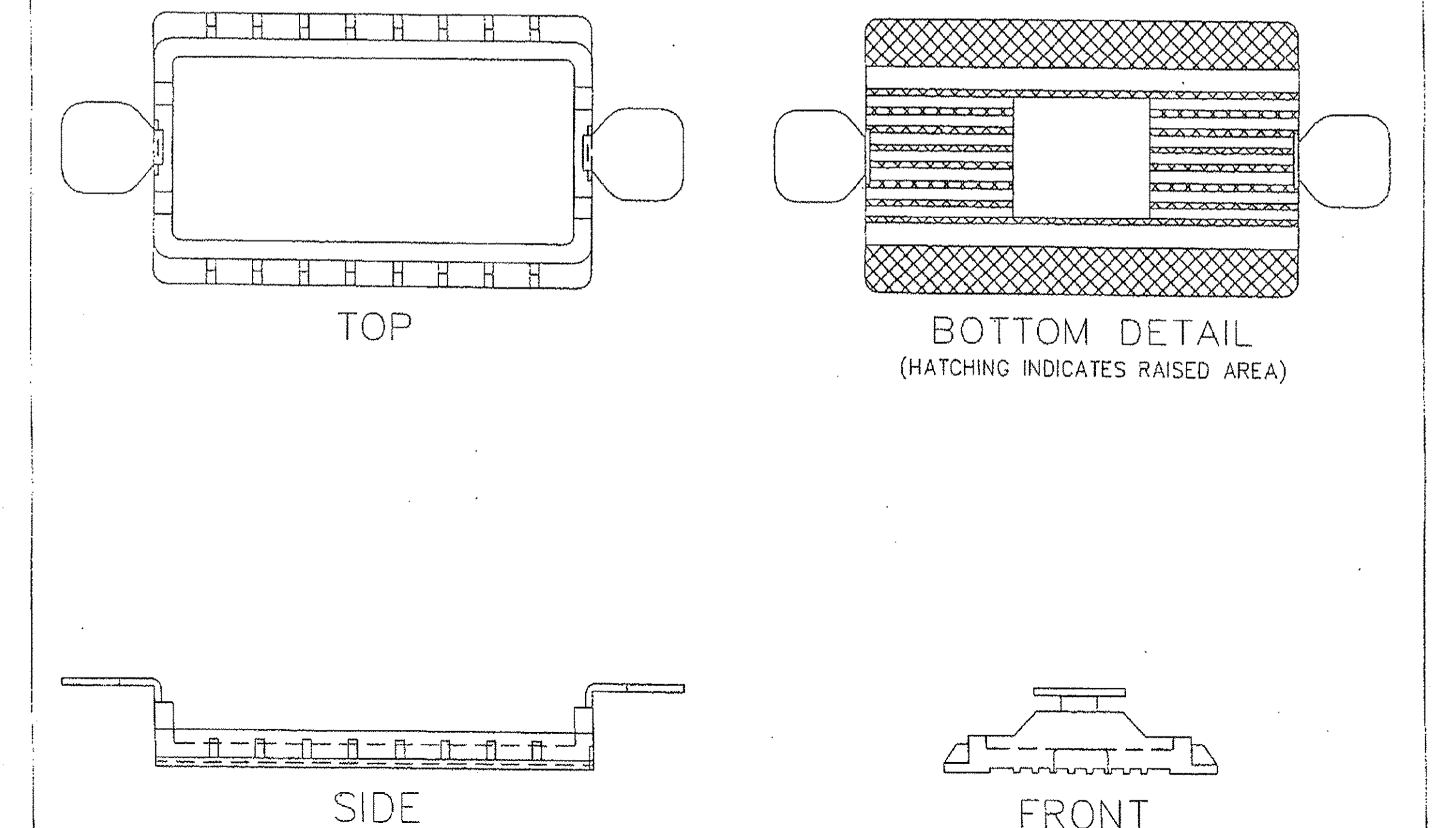
INSTALLATION OF RECESSED REFLECTIVE PAVEMENT MARKERS:

| LOCATION | SPACING | TYPE |
|---|----------------|-------------------|
| DOUBLE YELLOW CENTERLINE, & SKIP-DASH WHITE LANE LINES APPROACH & DEPARTURE FROM INTERSECTIONS * * EQUAL TO LENGTH OF TURN BAY, OR 200' | 40' | |
| ALONG CURVES OR TAPERS TANGENT SECTIONS | 40' 80' | |
| SOLID LANE LINES (TURN BAYS) | 40' | |
| END OF PAINTED MEDIANS | 3 @ 3' LATERAL | |
| DOUBLE YELLOW CENTERLINE | | 2-WAY YELLOW |
| PAINTED MEDIANS ≤ 4' WIDE | | 2-WAY YELLOW |
| PAINTED MEDIANS > 4' WIDE | | 1-WAY YELLOW |
| YELLOW LINE ALONG BARRIER MEDIANS ** EXCEPT IN SPECIAL CIRCUMSTANCES | | NONE ** |
| SKIP-DASH WHITE LANE LINES, SOLID LANE LINES (TURN BAYS) | | 1-WAY WHITE |
| 2-WAY, UNDIVIDED ROADWAY | | 2-WAY WHITE / RED |
| 1-WAY ROADWAY, OR DIVIDED WITH BARRIER MEDIAN | | |

RECESSED PAVEMENT MARKER



REFLECTOR HOLDER



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DESIGNER = mdeboub

ENGINEERING CONSULTANT

CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60655
 Tel: 773.775.4919 Fax: 773.775.4914
 Email: chicago@clorba.com

| | | |
|---------------------------|------------------|-----------|
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| PLOT DATE = 3/8/2017 | CHECKED - ES | REVISED - |
| | DATE - JAN 2017 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COUNTY FARM ROAD IMPROVEMENTS
DUPAGE COUNTY DETAILS**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|--------------------|------------------------|---------------|---------------------------|--------------|
| FAP RTE. 362 | SECTION 14-00179-31-SP | COUNTY DUPAGE | TOTAL SHEETS 99 | SHEET NO. 99 |
| CONTRACT NO. 61D62 | | | ILLINOIS FED. AID PROJECT | |