F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	1
		ILLINOIS	CONTRACT NO. 61M09	

01-16-2026 LETTING ITEM 019

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL–AID HIGHWAY

FAU ROUTE 3734 (34TH STREET)
HARLEM AVE TO RIDGELAND AVE
ROADWAY REHABILITATION
SECTION NO.: 23–00177–00–PV
PROJECT NO.: B7L6(207)
CITY OF BERWYN
COOK COUNTY
JOB NO.: C–91–157–23

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF APPLICABLE HIGHWAY STANDARDS SEE SHEET 2

THIS PROJECT PASSES THROUGH:

CITY OF BERWYN

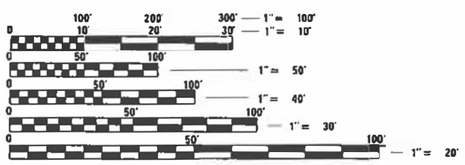
TRAFFIC DATA
34TH STREET
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
ADT = 4,350 VEHICLES PER DAY (2022)
25 MPH POSTED SPEED
25 MPH DESIGN SPEED

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE STORMWATER AND DRAINAGE OF SURFACE WATERS MEET THE MINIMUM CRITERIA FOR STORMWATER MANAGEMENT IN ACCORDANCE WITH LOCAL AND COUNTY STANDARDS.

MARK B. THOMAS, P.E.

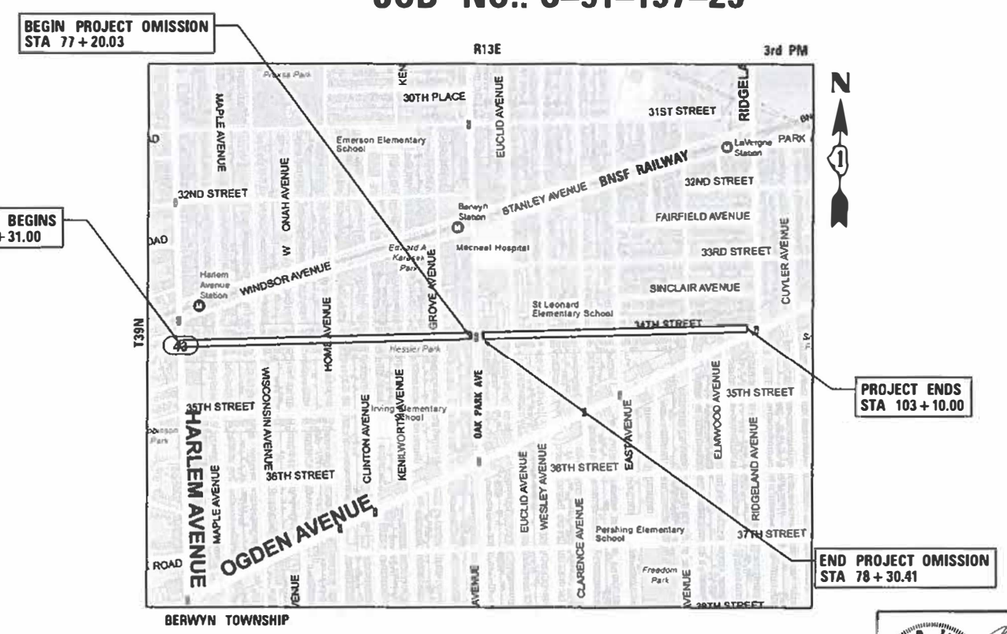
THERE ARE NO FLOOD PROTECTION AREAS LOCATED WITHIN 100 FEET OF THE DEVELOPMENT.

MARK B. THOMAS, P.E.



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



LOCATION MAP
(NOT TO SCALE)

GROSS LENGTH = 5,279 FT. = 1.000 MILES
NET LENGTH = 5,168 FT. = 0.979 MILES

LOCATION OF SECTION INDICATED THUS: –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED _____
ROBERT J. LOVERO
MAYOR, CITY OF BERWYN

PASSED October 30, 2025
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW November 3, 2025
REGIONAL ENGINEER

MARK B. THOMAS 062-057218 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

ENGINEER 09-09-2025 DATE
MARK B. THOMAS
ILLINOIS REGISTRATION No. 062-057218
EXPIRATION DATE: 11/30/2025

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 61M09

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, ILLINOIS

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2022: THE SUPPLEMENTAL SPECIFICATIONS, RECURRING SPECIAL PROVISIONS, "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD), THE "DETAILS" IN THE PLANS, ARLINGTON HEIGHTS ENGINEERING DETAILS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO VERIFY EXISTING DIMENSIONS OR CONDITIONS.

3. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS.

4. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

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

6. THE RESIDENT ENGINEER SHALL CONTACT ABDULLA ALI, CENTRAL COOK COUNTY AREA TRAFFIC FIELD ENGINEER, AT ABDULLA.ALI@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

7. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT EXCEPT FOR PERIODS OF SHORT DURATION AS APPROVED BY THE ENGINEER.

8. AT THE END OF EACH DAY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL STREETS ADJACENT TO THE PROJECT ARE FREE OF ALL CONSTRUCTION RELATED DEBRIS INCLUDING DIRT, STONE, NAILS, ETC. THE WORK SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF BERWYN.

9. CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.

10. ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.

11. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD 606001-05. TOP OF PIPE UNDERDRAINS SHALL BE MINIMUM OF 6" BELOW THE AGGREGATE SUBGRADE LAYER. THE COST OF MAKING UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COSTS OF THE PIPE UNDERDRAINS.

12. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER 9 INCHES SHALL BE CS 1 OR RR 1.

13. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDINACE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

14. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.

15. ANY AGGREGATE SUBGRADE CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

16. BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b,c) OF THE SSRBC WILL NOT BE ALLOWED.

17. PAVEMENT MARKING TAPE TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

18. WHEN WORKING ADJACENT TO THE ROAD AND UTILIZING DAILY LANE CLOSURES, DROP-OFF'S ADJACENT TO THE TRAVEL LANES SHALL BE KEPT TO A MINIMUM. DROP-OFF'S GREATER THAN 36" WILL NOT BE ALLOWED WITHIN 8' OF THE EDGE OF THE NEAREST OPEN TRAFFIC LANE UNLESS SHIELDED BY A TEMPORARY BARRIER. IF THERE IS A DROP OFF GREATER THAN 36", ANY ADJACENT LANE WITHIN 8' OF THE DROP-OFF OF SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE DROP-OFF HAS BEEN FILLED TO LESS THAN 36".

19. **UTILITIES**
   (A) ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING BUT NOT LIMITED TO SANITARY AND STORM SEWERS, WATER MAINS AND THEIR RESPECTIVE SERVICE LINES, SHOWN ON THE PLANS ARE APPROXIMATE ONLY. UNDERGROUND FACILITIES REPRESENTS ONLY THE OPINION OF THE CITY, AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL UTILITIES AS NECESSARY, PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (800) 892-0123, AND ALL PUBLIC AND PRIVATE UTILITIES BEFORE STARTING CONSTRUCTION.

   (B) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

   (C) THE CONTRACTOR SHALL NOTIFY THE CITY OF BERWYN PRIOR TO BEGINNING ANY REMOVALS. THE CITY WILL MARK ALL MUNICIPAL OWNED UTILTIES IN ADDITION TO JULIE. CARE SHALL BE TAKEN DURING CURB AND GUTTER REPLACEMENT TO AVOID DAMAGE TO CITY OWNED STREETLIGHT CONUIT.

20. **SOIL EROSION AND SEDIMENT CONTROL**
   (A) SOIL EROSION AND SEDIMENT CONTROL (SESC) FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.

   (B) UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED AT MINIMUM ACCORDING TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. A COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE MAINTAINED ON THE SITE AT ALL TIMES.

   (C) THE EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. ALL ADDITIONAL MEASURES MUST BE IN PLACE WITHIN 3 DAYS OF DISTURBANCE AND ANY EMERGENCY SESC MEASURES MUST BE INSTALLED IMMEDIATELY.

   (D) THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREAS AS THE PROJECT PROGRESSES, AND INSTALL TEMPORARY OR PERMANENT EROSION PROTECTION TO CONTROL SOIL EROSION, OR INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE TRACK-OUT MATERIAL.

   (E) DURING DE-WATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS). INLET HOSES SHOULD BE FLOATED AT THE SURFACE OF THE WATER IN ORDER TO LIMIT THE AMOUNT OF SEDIMENT INTAKE. PUMPING OPERATIONS MAY BE DISCHARGED TO A STABILIZED AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE (E.G., STONE), SEDIMENT FILTER BAG, OR BOTH. ADEQUATE EROSION AND SEDIMENT CONTROLS SHOULD BE USED DURING DE-WATERING OPERATIONS AS NECESSARY. DEWATERING SEDIMENT LADEN WATER DIRECTLY INTO FIELD TILES, STORM WATER STRUCTURES, OR "WATERS OF THE US" IS PROHIBITED.

   (F) CONSTRUCTION ACTIVITIES MUST BE SCHEDULED TO MINIMIZE THE TIME SOIL IS EXPOSED AND UNPROTECTED. IN NO CASE WILL THE EXISTING VEGETATION BE DESTROYED, REMOVED, OR DISTURBED MORE THAN FOURTEEN (14) DAYS PRIOR TO THE INITIATION OF IMPROVEMENTS.

   (G) ALL DISTURBED SOILS ARE TO BE STABILIZED, TEMPORARILY OR PERMANENTLY, WITHIN SEVEN (7) DAYS OF CONSTRUCTION ACTIVITY HAVING CEASED IF THE SOIL IS TO REMAIN UNDISTURBED FOR MORE THAN FOURTEEN (14) DAYS.

HIGHWAY STANDARDS

000001 - 09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
420001 – 11	PAVEMENT JOINTS
424001 - 12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011 - 06	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016 – 06	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021 – 07	DEPRESSED CORNER FOR SIDEWALKS
442101 – 09	CLASS B PATCHES
442201 – 03	CLASS C AND D PATCHES
601001 – 05	PIPE UNDERDRAINS
602001 - 02	CATCH BASIN TYPE A
604001 - 05	FRAME AND LIDS TYPE 1
604051 – 04	FRAME AND GRATE TYPE 11
604091 – 05	FRAME AND GRATE TYPE 24
606001 - 09	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006 – 05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101 - 05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106 - 02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701301 - 04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311 – 03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS – DAY ONLY
701427 – 05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPS
701501 – 06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606 – 10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701 - 10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801 - 06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901 - 11	TRAFFIC CONTROL DEVICES
720001 - 01	SIGN PANEL MOUNTING DETAILS
720006 - 04	SIGN PANEL ERECTION DETAILS
728001 - 01	TELESCOPING STEEL SIGN SUPPORT
729001 - 01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
731001 - 01	BASE FOR TELESCOPING STEEL SIGN SUPPORT

INDEX OF SHEETS

DISTRICT ONE DETAILS

BD-08	FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-32	BUTT JOINTS AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN

COMMITMENTS

1. PER THE VILLAGE OF RIVERSIDE, THE FOLLOWING ITEMS WILL BE INCORPORATED INTO THE DESIGN FOR THE IMPROVEMENTS AT THE INTERSECTION OF 34TH STREET AND HARLEM AVENUE:
   A. ALL NEW CONCRETE WILL BE OF A PEA GRAVEL MIX WITH AN EXPOSED AGGREGATE FINISH PER THE VILLAGE SPECIFICATION
   B. CAST IRON DETECTALBE WARNING PLATES WILL BE INSTALLED.

MWRD GENERAL NOTES

A. REFERENCED SPECIFICATIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
   * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JAN 1, 2022), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * CITY OF BERWYN MUNICIPAL CODE;
   * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
   * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
2. THE CITY OF BERWYN ENGINEERING DEPARTMENT AND PUBLIC WORKS MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. THE ENGINEER, IN COORDINATION WITH THE MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
5. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
6. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
7. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE ENGINEER IN COORDINATION WITH BERWYN AND/OR MWRD.
4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECS	JOINT SPECS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	AANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350	ASTM D-3261, F-2620 (HEAT FUSION)
	ASTM-3035	ASTM D-3212, F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECS	JOINT SPECS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30 INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
    a. A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
    b. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
    c. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING COUPLINGS TO HOLD IT FIRMLY IN PLACE.
12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. SOIL EROSION AND SEDIMENT CONTROL PLAN

1. CONTRACTOR SHALL INSTALL INLET PROTECTION FOR ALL STRUCTURES WITHIN THE PROPSOED LIMITS OF DISTURBANCE.
2. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
3. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
4. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
6. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
   a. UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
   b. ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
7. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
8. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
9. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
10. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
11. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
12. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
13. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
14. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
15. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
16. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
17. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
18. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
19. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
20. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
21. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
22. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
23. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
24. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE		
SPECIALTY	CODED PAY ITEM N0.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 80% FED / 20% LOCAL	TRAFFIC SIGNALS 0021 80% FED / 20% LOCAL	NON-PARTICIPATING 100% LOCAL
*	20101100	TREE TRUNK PROTECTION	EACH	19	19		
*	20101200	TREE ROOT PRUNING	EACH	19	19		
	20200100	EARTH EXCAVATION	CU YD	1490	1490		
	20800150	TRENCH BACKFILL	CU YD	5522	5522		
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	450	450		
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	6098	6098		
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	76	76		
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	76	76		
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	76	76		
*	25200110	SODDING, SALT TOLERANT	SQ YD	6098	6098		
*	25200200	SUPPLEMENTAL WATERING	UNIT	337	337		
	28000510	INLET FILTERS	EACH	111	111		
	28200200	FILTER FABRIC	SQ YD	3813	3813		
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	150	150		
	31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	1865	1865		
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	2843	2843		

* SPECIALTY ITEM

\# CONSTRUCTION CODE 0042

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE		
SPECIALTY	CODED PAY ITEM N0.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 80% FED / 20% LOCAL	TRAFFIC SIGNALS 0021 80% FED / 20% LOCAL	NON-PARTICIPATING 100% LOCAL
	35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10"	SQ YD	1783	1783		
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	12130	12130		
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	36	36		
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	424	424		
	40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	816	816		
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	1661	1661		
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	622	622		
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	24807	24807		
	42400800	DETECTABLE WARNINGS	SQ FT	1076	1076		
	44000100	PAVEMENT REMOVAL	SQ YD	3162	3162		
	44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	17969	17969		
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	647	647		
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	9981	9981		
	44000600	SIDEWALK REMOVAL	SQ FT	25191	25191		
	44200966	CLASS B PATCHES, TYPE I, 10 INCH	SQ YD	180	180		

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	44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	360	360		
	44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	540	540		
	44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	3549	3549		
	44201299	DOWEL BARS 1 1/2"	EACH	3000	3000		
	44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	90	90		
	44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	180	180		
	44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	270	270		
	44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	710	710		
	55100200	STORM SEWER REMOVAL 6"	FOOT	221	221		
	55100300	STORM SEWER REMOVAL 8"	FOOT	1196	1196		
*	56103000	DUCTILE IRON WATER MAIN 6"	FOOT	95	95		
*	56103100	DUCTILE IRON WATER MAIN 8"	FOOT	6207	6207		
*	56103200	DUCTILE IRON WATER MAIN 10"	FOOT	93	93		
*	56105000	WATER VALVES 8"	EACH	34	34		
*	56105100	WATER VALVES 10"	EACH	2	2		
*	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	12	12		

* SPECIALTY ITEM

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SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE		
SPECIALTY	CODED PAY ITEM N0.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 80% FED / 20% LOCAL	TRAFFIC SIGNALS 0021 80% FED / 20% LOCAL	NON-PARTICIPATING 100% LOCAL
*	56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	13	13		
	60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	1625	1625		
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	39	39		
	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	18	18		
	60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	3	3		
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	20	20		
*	60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	34	34		
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	6	6		
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	17	17		
	60600605	CONCRETE CURB, TYPE B	FOOT	1215	1215		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	9679	9679		
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	113	113		
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	10	10		

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SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE		
SPECIALTY	CODED PAY ITEM N0.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 80% FED / 20% LOCAL	TRAFFIC SIGNALS 0021 80% FED / 20% LOCAL	NON-PARTICIPATING 100% LOCAL
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1		
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2		
	67100100	MOBILIZATION	L SUM	1	1		
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1		
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	2090	2090		
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	697	697		
	70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	2454	2454		
	70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	3000	3000		
	70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	866	866		
*	72000100	SIGN PANEL - TYPE 1	SQ FT	29	23	6	
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2		

* SPECIALTY ITEM

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SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE		
SPECIALTY	CODED PAY ITEM N0.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 80% FED / 20% LOCAL	TRAFFIC SIGNALS 0021 80% FED / 20% LOCAL	NON-PARTICIPATING 100% LOCAL
	72400205	REMOVE AND RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	39	39		
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	672	672		
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1227	1227		
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4989	4989		
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2814	2814		
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	433	433		
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	7		7	
*	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	6	6		
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1119		1119	
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1140		1140	
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	582		582	
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	18		18	
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4		4	
*	87900200	DRILL EXISTING HANDHOLE	EACH	1		1	

* SPECIALTY ITEM

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SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE		
SPECIALTY	CODED PAY ITEM N0.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 80% FED / 20% LOCAL	TRAFFIC SIGNALS 0021 80% FED / 20% LOCAL	NON-PARTICIPATING 100% LOCAL
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8	
*	89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	2		2	
*	89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1		1	
*	89502200	MODIFY EXISTING CONTROLLER	EACH	1		1	
*	89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1		1	
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	904		904	
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
*	89502376	REBUILD EXISTING HANDHOLE	EACH	2		2	
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1		1	
*	A2004514	TREE, GINKGO BILOBA AUTUMN GOLD (AUTUMN GOLD GINKGO), 2-1/2" CALIPER BALLED AND BURLAPPED	EACH	6	6		
*	A2004720	TREE, GLEDITSIA TRIACANTHOS INERMIS SHADEMASTER (SHADEMASTER THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLE	EACH	4	4		
*	K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	10	10		
	X0325110	BIAXIAL GEOGRID	SQ YD	1661	1661		
	X0326806	WASHOUT BASIN	L SUM	1	1		
	X0327978	CONCRETE PAVER PAVEMENT	SQ YD	942	942		
*	X1400097	SOLAR-POWERED ILLUMINATED SIGN, LED	EACH	2	2		

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SPECIALTY	CODED PAY ITEM N0.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 80% FED / 20% LOCAL	TRAFFIC SIGNALS 0021 80% FED / 20% LOCAL	NON-PARTICIPATING 100% LOCAL
*	X1400326	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	2	2		
*	X1800024	DECORATIVE STONE	SQ FT	1455	1455		
*	X2111218	PLANTING SOIL MIX FURNISH AND PLACE, 18"	SQ YD	606	606		
	X3510407	AGGREGATE BASE COURSE, TYPE CA-7	TON	1790	1790		
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	22	22		
	X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SPECIAL)	SQ FT	154	154		
	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	12	12		
*	X5430212	CURED-IN-PLACE PIPE LINER, 12"	FOOT	1648			1648
*	X5430215	CURED-IN-PLACE PIPE LINER, 15"	FOOT	340			340
*	X5430218	CURED-IN-PLACE PIPE LINER, 18"	FOOT	315			315
*	X5510210	COMBINED SEWER REMOVAL 10"	FOOT	16	16		
*	X5510212	COMBINED SEWER REMOVAL 12"	FOOT	190	190		
*	X5510215	COMBINED SEWER REMOVAL 15"	FOOT	230	230		
*	X5510224	COMBINED SEWER REMOVAL 24"	FOOT	63	63		
*	X5510312	SANITARY SEWER REMOVAL 12"	FOOT	22	22		
*	X5610001	CLEANOUTS	EACH	2	2		

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SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE		
SPECIALTY	CODED PAY ITEM N0.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 80% FED / 20% LOCAL	TRAFFIC SIGNALS 0021 80% FED / 20% LOCAL	NON-PARTICIPATING 100% LOCAL
*	X5620120	INSTALL WATER SERVICE COMPLETE	EACH	149	149		
*	X5630212	SANITARY SEWER CONNECTION	EACH	6	6		
*	X5630706	CONNECTION TO EXISTING WATER MAIN 6"	EACH	9	9		
*	X5630708	CONNECTION TO EXISTING WATER MAIN 8"	EACH	15	15		
*	X5630710	CONNECTION TO EXISTING WATER MAIN 10"	EACH	2	2		
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	4	4		
*	X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	52	52		
*	X7800200	PAINT PAVEMENT MARKING CURB	FOOT	2365	2365		
*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8		8	
*	X8860105	DETECTOR LOOP REPLACEMENT	FOOT	104		104	
	XX003338	TEST HOLE	EACH	3	3		
	XX006240	AREA DRAIN	EACH	12	12		
	XX006433	BACKFLOW PREVENTER	EACH	2	2		
	XX007079	CONCRETE RIBBON	FOOT	1559	1559		
	XX009600	FILLING VALVE VAULTS	EACH	19	19		
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		

* SPECIALTY ITEM

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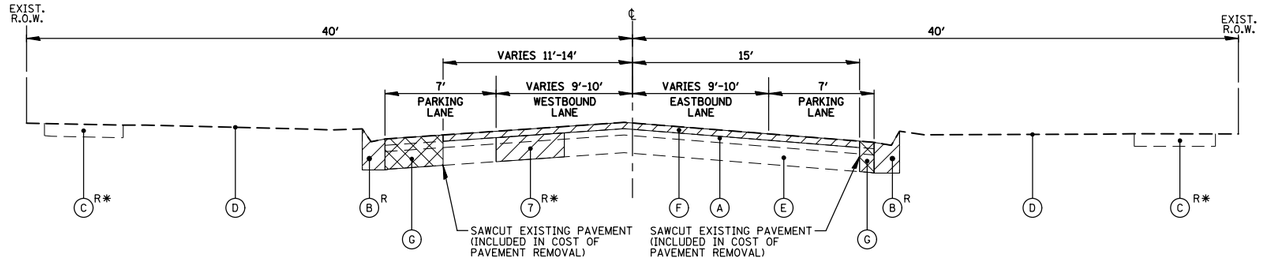
SPECIALTY	CODED PAY ITEM N0.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 80% FED / 20% LOCAL	TRAFFIC SIGNALS 0021 80% FED / 20% LOCAL	NON-PARTICIPATING 100% LOCAL
	Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	50	50		
	Z0018911	DRILL AND GROUT #6 TIE BARS	EACH	1650	1650		
*	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1		1	
	Z0056604	STORM SEWER (WATER MAIN REQUIREMENTS) 8 INCH	FOOT	2553	2553		
*	Z0057000	SANITARY SEWER 10"	FOOT	16	16		
*	Z0057100	SANITARY SEWER 12"	FOOT	247	247		
*	Z0057200	SANITARY SEWER 15"	FOOT	232	232		
*	Z0057300	SANITARY SEWER 18"	FOOT	12	12		
*	Z0057400	SANITARY SEWER 21"	FOOT	26	26		
*	Z0057500	SANITARY SEWER 24"	FOOT	80	80		
*	Z0057700	SANITARY SEWER 30"	FOOT	44	44		
#	Z0076600	TRAINEES	HOUR	500			
#	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			
*	X5510218	COMBINED SEWER REMOVAL 18"	FOOT	32	32		
*	X5510221	COMBINED SEWER REMOVAL 21"	FOOT	47	47		
*	X5510230	COMBINED SEWER REMOVAL 30"	FOOT	44	44		

* SPECIALTY ITEM

\# CONSTRUCTION CODE 0042



EXISTING TYPICAL SECTION
34TH STREET
STA 50+31 TO 77+20.02
STA 78+30.41 TO STA 88+26.00

NOTES:

1. CONTRACTOR SHALL MILL PAVEMENT BEFORE PATCHING.

2. THE EXISTING PAVEMENT SECTION CONSISTS OF VARIABLE DEPTH HMA OVER A CONCRETE BASE. SEE CORE TABLE FOR DETAILS OF EXISTING PAVEMENT STRUCTURE.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @NDES	QMP
PAVEMENT RESURFACING & WIDENING		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"	4% @ 50 GYR.	LR-1030-2
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"	3.5% @ 50 GYR.	LR-1030-2
CLASS D PATCHES •		
CLASS D PATCH (HMA BINDER IL-19 mm)	4% @ 50 GYR.	LR-1030-2
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR 1030-2		

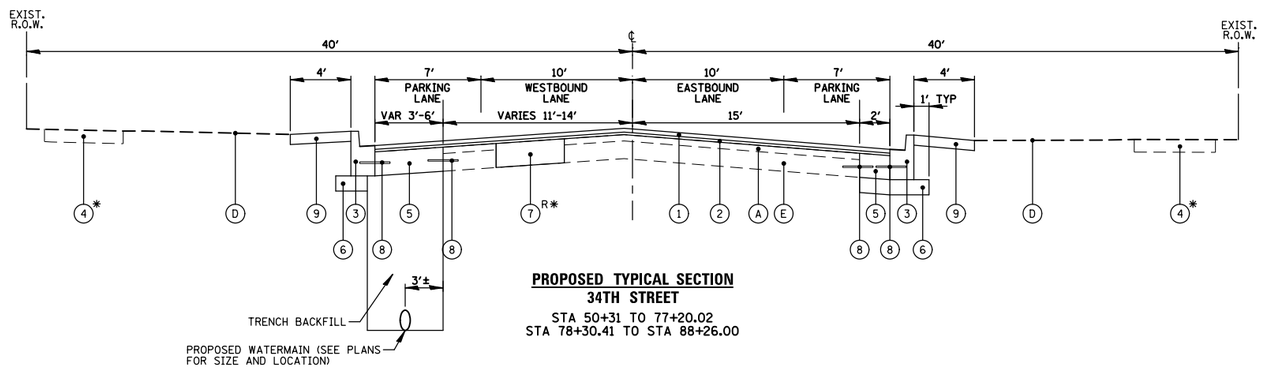
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQYD/IN.

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 RECLAIMED MATERIALS SPECIFICATIONS.

• CLASS D PATCHES TO BE USED IN LIEU OF CLASS B PATCHES AT LOCATIONS AS DIRECTED BY THE ENGINEER.

SUMMARY OF PAVEMENT CORES

CORE NO.	APPROX STA.	HMA THICK. (IN)	PCC BASE THICK. (IN)
B-1	53+00	5	7
B-2	59+00	5	8
B-3	65+00	5	6
B-4	71+00	3.5	6.5
B-5	77+00	7.5	6.5
B-6	82+50	5.5	6.5
B-7	89+00	5	6
B-8	95+00	5	7



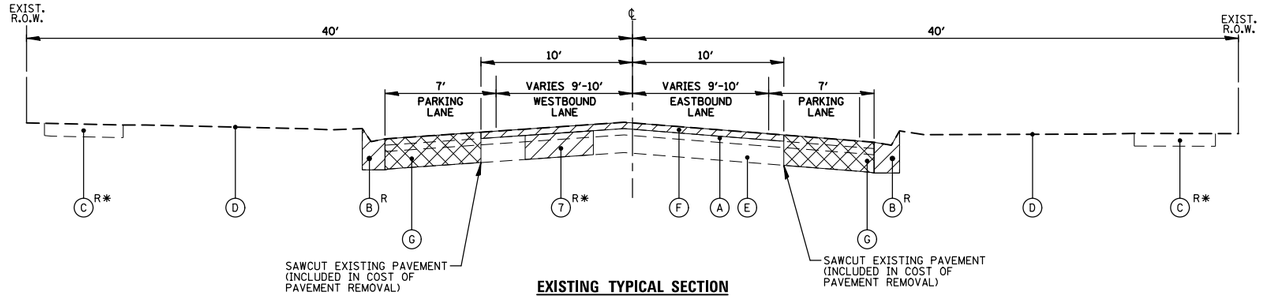
PROPOSED TYPICAL SECTION
34TH STREET
STA 50+31 TO 77+20.02
STA 78+30.41 TO STA 88+26.00

LEGEND

(A) EXISTING HOT-MIX ASPHALT
*(B) EXISTING CONCRETE CURB AND GUTTER
*(C) EXISTING PCC SIDEWALK
(D) EXISTING TOPSOIL AND SODDING
(E) EXISTING PCC BASE
(F) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
(G) PAVEMENT REMOVAL

R REMOVAL
* AT LOCATIONS AS DIRECTED BY THE ENGINEER

(1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
(2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
(3) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
*(4) PCC SIDEWALK 5"
(5) PCC BASE COURSE WIDENING, 10"
(6) SUBBASE GRANULAR MATERIAL, TYPE B 6"
(7) CLASS B PATCHES, 10"
(8) NO. 6 X 24" TIE BARS, 36" C-C
(9) TOPSOIL FURNISH AND PLACE, 4"
(10) CONCRETE RIBBON
(11) CONCRETE PAVER PAVEMENT
(12) AGGREGATE BASE COURSE, TYPE CA-7
(13) BIAXIAL GEOGRID
(14) FILTER FABRIC
(15) PIPE UNDERDRAINS, TYPE 1, 4" (PERFORATED PVC)



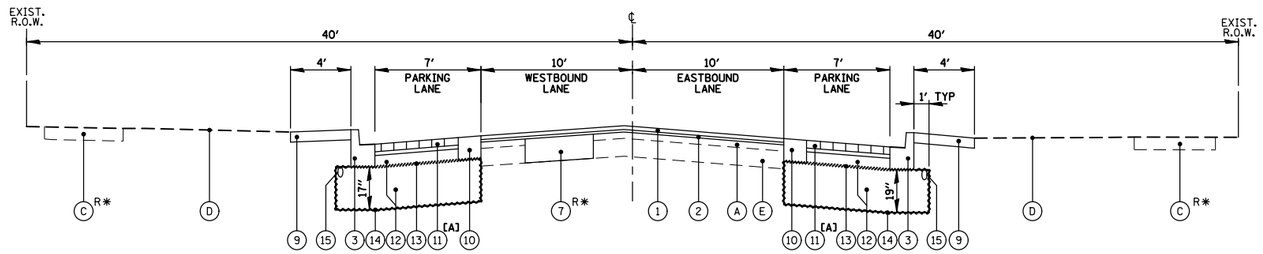
EXISTING TYPICAL SECTION
34TH STREET

STA 88+26.00 TO 98+15.00

NOTES:

1. CONTRACTOR SHALL MILL PAVEMENT BEFORE PATCHING.

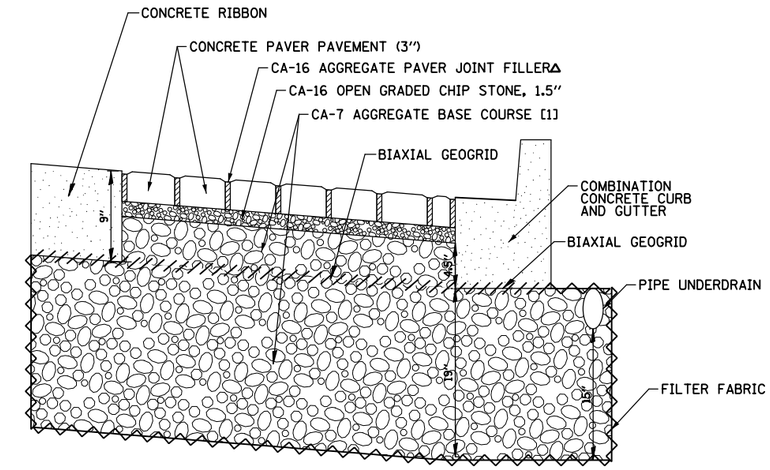
2. THE EXISTING PAVEMENT SECTION CONSISTS OF VARIABLE DEPTH HMA OVER A CONCRETE BASE. SEE CORE RESULTS FOR DETAILS OF EXISTING PAVEMENT STRUCTURE.



PROPOSED TYPICAL SECTION
34TH STREET

STA 88+26.00 TO 98+15.00

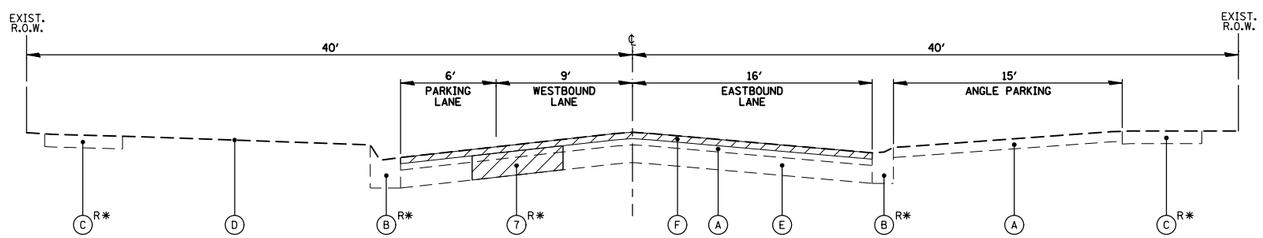
[[A] SEE CONCRETE PAVER PAVEMENT DETAIL



CONCRETE PAVER PAVEMENT DETAIL

△ INCLUDED IN THE COST OF CONCRETE PAVER PAVEMENT

[1] ALL CA-7 SHALL BE WASHED AND FREE OF FINES.



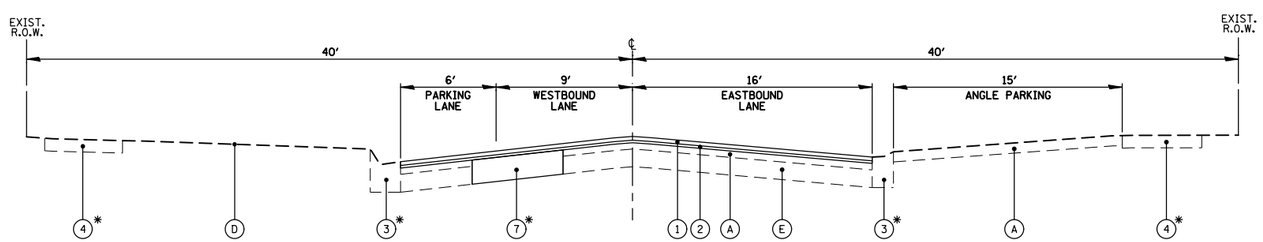
EXISTING TYPICAL SECTION
34TH STREET

STA 98+15.00 TO STA 103+10

NOTES:

1. CONTRACTOR SHALL MILL PAVEMENT BEFORE PATCHING.

2. THE EXISTING PAVEMENT SECTION CONSISTS OF VARIABLE DEPTH HMA OVER A CONCRETE BASE. SEE CORE TABLE FOR DETAILS OF EXISTING PAVEMENT STRUCTURE.



PROPOSED TYPICAL SECTION
34TH STREET

STA 98+15.00 TO STA 103+10

LEGEND

- (A) EXISTING HOT-MIX ASPHALT
- *(B) EXISTING CONCRETE CURB AND GUTTER
- *(C) EXISTING PCC SIDEWALK
- (D) EXISTING TOPSOIL AND SODDING
- (E) EXISTING PCC BASE
- (F) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (G) PAVEMENT REMOVAL

- R REMOVAL
- * AT LOCATIONS AS DIRECTED BY THE ENGINEER

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- (3) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
- *(4) PCC SIDEWALK 5"
- (5) PCC BASE COURSE WIDENING, 10"
- (6) SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (7) CLASS B PATCHES, 10"
- (8) NO. 6 X 24" TIE BARS, 36" C-C
- (9) TOPSOIL FURNISH AND PLACE, 4"
- (10) CONCRETE RIBBON
- (11) CONCRETE PAVER PAVEMENT
- (12) AGGREGATE BASE COURSE, TYPE CA-7
- (13) BIAXIAL GEOGRID
- (14) FILTER FABRIC
- (15) PIPE UNDERDRAINS, TYPE 1, 4" (PERFORATED PVC)

FILE NAME = N:\BERWYN\220369.02\Civil\TYP_220369-02.sht	USER NAME = mthomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10'	CHECKED -	REVISED -
Default	PLOT DATE = 11/24/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	15

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT

DRAINAGE STRUCTURE SCHEDULE

STR NO	STRUCTURE TYPE	SIZE	STATION	OFFSET	RIM	INV. NORTH	INV. SOUTH	INV. EAST	INV. WEST
S-10	CB, TY C, T1F (OL) W/TRAP	2'	50+44.54	18.39 RT	609.37	606.08	X	X	X
S-11	CB, TY C, T1F (OL) W/TRAP	2'	50+44.48	18.22 LT	609.35	X	606.08	X	X
S-12	CB, TY C, T1F (OL)	2'	53+09.05	17.00 RT	609.65	X	X	606.65	X
S-13	CB, TY A, T1F (OL)	4'	53+45.67	20.55 RT	609.44	X	X	606.38	606.38
S-14	CB, TY A, T1F (OL) W/TRAP	4'	53+80.41	29.85 RT	609.35	606.12	X	X	606.12
S-15	CB, TY C, T1F (OL) W/TRAP	2'	54+21.93	17.00 RT	609.65	X	X	X	607.15
S-16	AREA DRAIN	N/A	53+04.92	27.08 LT	609.48	X	X	606.88	X
S-17	CB, TY A, T1F (OL)	4'	53+47.48	24.28 LT	609.43	X	X	606.46	606.46
S-18	CB, TY A, T1F (OL) W/TRAP	4'	53+81.68	26.40 LT	609.41	X	606.12	606.72	606.12
S-19	AREA DRAIN	N/A	54+13.09	24.40 LT	609.53	X	X	X	607.03
S-20	CB, TY C, T1F (OL)	2'	56+73.40	17.00 RT	609.54	X	X	606.54	X
S-21	CB, TY A, T1F (OL)	4'	57+08.49	27.36 RT	609.34	X	X	606.15	606.15
S-22	CB, TY A, T1F (OL) W/TRAP	4'	57+40.46	25.68 RT	609.29	605.83	X	X	605.83
S-23	CB, TY C, T1F (OL) W/TRAP	2'	57+74.78	17.00 RT	609.50	X	X	X	606.45
S-24	INLETS, TY A, TF1 (OL)	2'	56+73.10	17.00 LT	609.50	X	X	607.00	X
S-25	CB, TY A, T1F (OL)	4'	57+07.87	27.13 LT	609.30	X	X	606.61	606.61
S-26	CB, TY A, T1F (OL) W/TRAP	4'	57+40.45	25.17 LT	609.28	X	606.26	606.48	606.26
S-27	INLETS, TY A, TF1 (OL)	2'	57+74.77	17.00 LT	609.36	X	X	X	606.86
S-30	CB, TY C, T1F (OL)	2'	60+31.62	17.00 RT	608.82	X	X	606.32	X
S-31	CB, TY A, T1F (OL)	4'	60+71.71	25.26 RT	608.61	X	X	605.61	605.61
S-32	CB, TY A, T1F (OL) W/TRAP	4'	61+05.51	24.44 RT	608.75	605.27	X	605.75	605.27
S-33	AREA DRAIN	N/A	61+35.50	24.93 RT	608.58	X	X	X	606.08
S-34	INLETS, TY A, TF1 (OL)	2'	60+31.57	17.00 LT	608.83	X	X	606.33	X
S-35	CB, TY A, T1F (OL)	4'	60+70.77	25.70 LT	608.43	X	X	605.93	605.93
S-36	CB, TY A, T1F (OL) W/TRAP	4'	61+04.28	27.33 LT	608.45	X	605.69	605.69	605.69
S-37	AREA DRAIN	N/A	61+36.55	25.14 LT	608.49	X	X	X	605.99
S-38	AREA DRAIN	N/A	64+11.01	26.38 RT	607.77	X	X	604.77	X
S-39	CB, TY A, T1F (OL) W/TRAP	4'	64+35.11	24.07 RT	607.54	604.19	X	X	604.29
S-39A	CB, TY A, T1F (OL) W/TRAP	4'	64+68.82	27.94 RT	607.85	604.75	X	604.85	X
S-39B	CB, TY C, T1F (OL)	2'	65+03.83	17.00 RT	607.98	X	X	X	605.48
S-39C	INLETS, TY A, TF1 (OL)	2'	64+01.80	17.00 LT	607.97	X	X	605.47	X
S-39D	MH, TY A, T1F (OL)	4'	64+36.05	27.12 LT	607.84	X	X	605.11	605.11
S-39E	CB, TY A, T1F (OL) W/TRAP	4'	64+68.23	27.39 LT	607.86	X	604.79	605.12	604.79
S-39F	INLETS, TY A, TF1 (OL)	2'	65+03.75	17.00 LT	607.99	X	X	X	605.49
S-40	AREA DRAIN	N/A	67+39.18	24.98 RT	607.52	X	X	605.02	X
S-41	CB, TY A, T1F (OL)	4'	67+66.14	23.59 RT	607.45	X	X	604.75	604.75
S-42	CB, TY A, T1F (OL) W/TRAP	4'	67+91.62	20.24 RT	607.91	604.49	X	604.7	604.49
S-43	CB, TY C, T1F (OL)	2'	68+40.55	17.00 RT	607.70	X	X	X	605.2
S-44	INLETS, TY A, TF1 (OL)	2'	67+27.24	17.00 LT	607.80	X	X	605.30	X
S-45	CB, TY A, T1F (OL)	4'	67+66.01	23.91 LT	607.40	X	X	604.40	604.40
S-46	CB, TY A, T1F (OL) W/TRAP	4'	67+97.95	29.79 LT	607.42	X	604.08	604.42	604.08
S-47	AREA DRAIN	N/A	68+31.40	24.99 LT	607.44	X	X	X	604.94
S-48	CB, TY A, T1F (OL) W/TRAP	4'	70+17.95	17.00 RT	607.19	604.22	X	604.22	X
S-49	AREA DRAIN	N/A	70+73.76	24.29 RT	607.28	X	X	X	604.78
S-49A	INLETS, TY A, TF1 (OL)	2'	71+07.12	20.79 RT	607.75	X	X	605.25	X
S-49B	CB, TY A, T1F (OL) W/TRAP	4'	71+30.85	26.31 RT	607.20	604.00	X	X	605.01
S-49C	MH, TY A, TF1 (OL)	4'	71+00.41	42.02 LT	607.17	X	604.43	604.43	X
S-49D	CB, TY A, T1F (OL) W/TRAP	4'	71+27.58	42.76 LT	607.27	X	602.99	604.36	604.16
S-49E	AREA DRAIN	N/A	71+54.37	25.26 LT	607.18	X	X	X	604.68
S-49F	INLETS, TY A, TF1 (OL)	2'	70+63.99	17.00 LT	607.37	604.87	X	X	X
S-49G	MH, TY A, TF1 (CL)	5'	71+14.18	37.45 LT	607.71	598.95	598.95	602.85	X

DRAINAGE STRUCTURE SCHEDULE

STR NO	STRUCTURE TYPE	SIZE	STATION	OFFSET	RIM	INV. NORTH	INV. SOUTH	INV. EAST	INV. WEST
S-50	MH, TY A, TF1 (OL)	4'	73+50.41	17.00 LT	606.98	X	603.98	603.98	X
S-51	CB, TY A, T1F (OL) W/TRAP	4'	73+50.42	10.00 LT	607.30	603.91	603.23	X	X
S-52	CB, TY A, T1F (OL) W/TRAP	4'	73+65.24	17.00 RT	606.95	603.56	X	604.12	X
S-53	CB, TY C, T1F (OL)	2'	73+87.26	17.00 RT	606.84	X	X	X	604.34
S-54	CB, TY C, T1F (OL)	2'	74+25.80	25.72 RT	606.59	X	X	604.09	X
S-55	CB, TY A, T1F (OL) W/TRAP	4'	74+60.66	27.75 RT	606.55	603.64	X	X	603.74
S-56	INLETS, TY A, TF1 (OL)	2'	73+87.20	17.00 LT	606.85	X	X	X	604.35
S-57	INLETS, TY A, TF1 (OL)	2'	74+29.47	25.81 LT	606.66	X	X	604.16	X
S-58	CB, TY A, T1F (OL) W/TRAP	4'	74+60.52	27.50 LT	606.61	X	603.75	X	603.85
S-59	CB, TY C, T1F (OL) W/TRAP	2'	75+91.75	12.00 RT	606.97	602.77	X	X	X
S-59A	CB, TY C, T1F (OL) W/TRAP	2'	75+91.74	12.00 LT	606.93	X	602.67	X	X
S-59B	CB, TY C, T1F (OL)	2'	76+23.59	18.32 LT	606.44	603.94	X	X	X
S-60	CB, TY C, T1F (OL) W/TRAP	2'	77+10.59	12.02 RT	606.44	603.44	X	X	X
S-61	CB, TY C, T1F (OL)	2'	80+64.18	17.00 RT	606.50	X	X	604.00	X
S-62	CB, TY A, T1F (OL) W/TRAP	4'	80+98.99	15.55 RT	606.70	603.43	X	603.43	603.65
S-63	CB, TY A, T1F (OL)	4'	81+29.15	22.18 RT	606.42	X	X	603.66	603.66
S-64	CB, TY C, T1F (OL)	2'	81+67.05	17.00 RT	606.56	X	X	X	604.06
S-65	INLETS, TY A, TF1 (OL)	2'	80+64.13	17.00 LT	606.53	X	X	604.03	X
S-66	CB, TY A, T1F (OL) W/TRAP	4'	80+89.43	12.00 LT	606.60	X	X	602.48	603.77
S-67	CB, TY A, T1F (OL) W/TRAP	4'	81+27.23	25.57 LT	606.35	X	603.39	603.49	X
S-68	AREA DRAIN	N/A	81+59.95	24.53 LT	606.32	X	X	X	603.82
S-70	INLETS, TY A, TF1 (OL)	2'	83+91.73	17.00 LT	606.46	X	603.96	X	X
S-71	CB, TY A, T1F (OL)	4'	83+91.50	17.00 RT	606.35	603.6	X	603.6	X
S-72	CB, TY A, T1F (OL) W/TRAP	4'	84+23.67	23.05 RT	606.36	603.33	X	X	603.33
S-73	AREA DRAIN	N/A	84+81.23	24.64 RT	606.07	603.57	X	X	X
S-74	CB, TY A, T1F (OL) W/TRAP	4'	84+72.11	12.00 RT	606.49	603.30	603.42	X	603.30
S-75	AREA DRAIN	N/A	84+80.47	24.24 LT	606.17	X	603.67	X	X
S-76	INLETS, TY A, TF1 (OL)	2'	84+26.77	31.15 LT	606.25	X	X	603.75	X
S-77	CB, TY A, T1F (OL) W/TRAP	4'	84+52.69	19.87 LT	607.25	X	603.54	603.87	603.54
S-78	INLETS, TY A, TF1 (OL)	2'	84+58.88	12.45 LT	606.47	603.97	X	X	X
S-79	INLETS, TY A, TF1 (OL)	2'	88+29.49	19.58 RT	607.67	X	X	606.29	X
S-79A	INLETS, TY A, TF1 (OL)	2'	88+29.56	19.58 LT	607.60	X	X	606.29	X
S-80	CB, TY A, T1F (OL) W/TRAP	4'	90+89.88	31.19 RT	605.62	X	X	602.62	603.7
S-81	CB, TY A, T1F (OL) W/TRAP	4'	91+27.09	30.89 RT	605.57	X	X	X	602.57
S-82	CB, TY A, T1F (OL) W/TRAP	4'	90+88.25	27.19 LT	605.68	X	X	602.68	603.76
S-83	CB, TY A, T1F (OL) W/TRAP	4'	91+27.63	30.04 LT	605.74	X	X	X	602.74
S-84	INLETS, TY A, TF1 (OL)	2'	91+68.37	19.58 LT	606.37	X	X	605.12	X
S-85	INLETS, TY A, TF1 (OL)	2'	91+69.26	19.58 RT	606.38	X	X	605.13	X
S-86	MH, TY A, TF1 (CL)	4'	91+03.98	26.47 LT	606.36	599.32	599.32	602.26	602.52
S-90	INLETS, TY A, TF1 (OL)	2'	97+20.50	19.58 RT	605.93	X	X	X	604.67
S-91	INLETS, TY A, TF1 (OL)	2'	97+14.34	19.58 LT	605.99	X	X	X	604.74
S-92	CB, TY C, T1F (OL)	2'	97+94.36	15.21 LT	605.18	X	603.43	X	X
S-93	CB, TY A, T1F (OL) W/TRAP	4'	97+95.66	23.44 RT	604.92	603.06	X	X	603.06

SEWER SCHEDULE

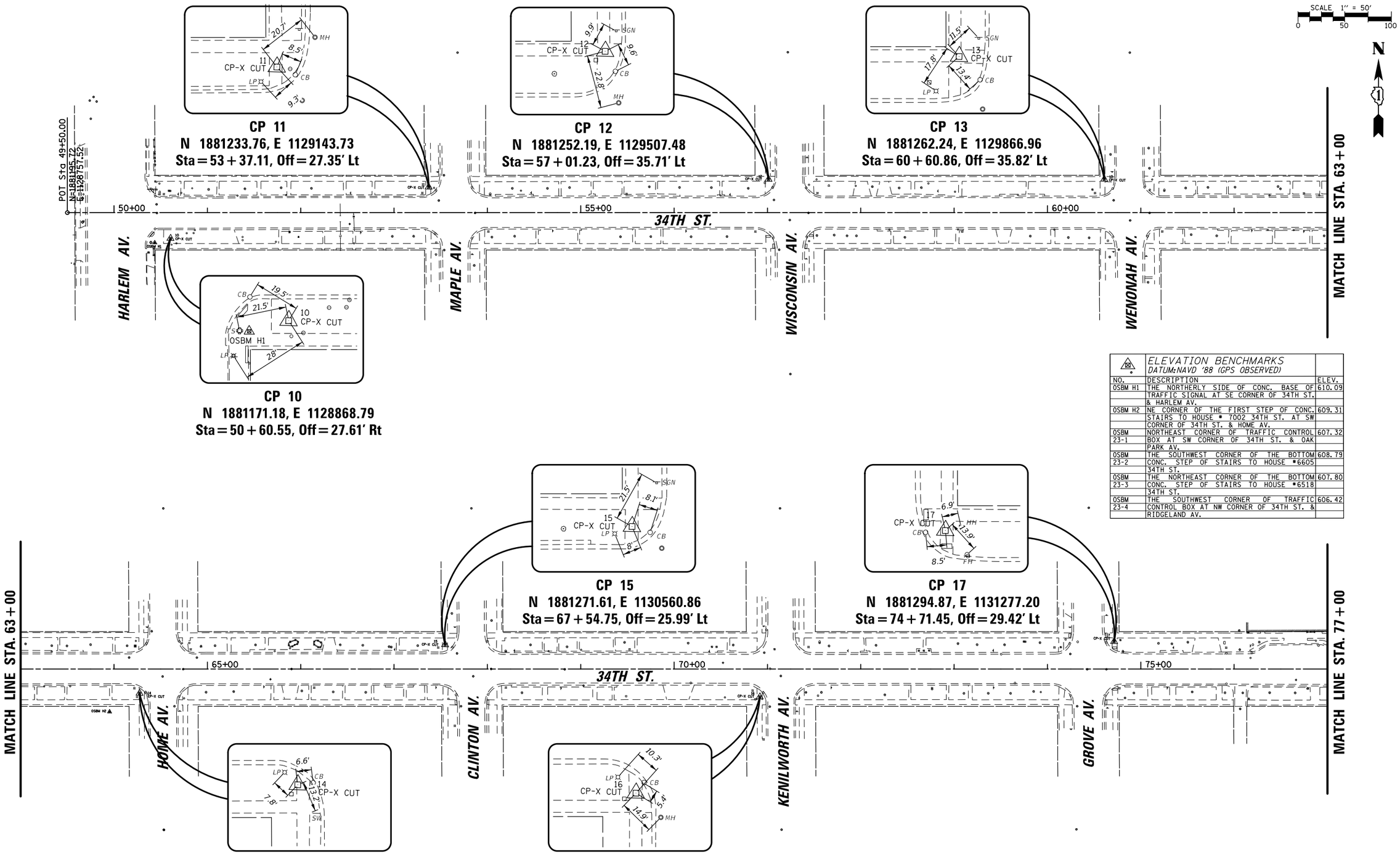
PIPE NO.	FROM STR.	TO STR.	MATERIAL	LENGTH	DIA	UPPER INV	LOWER INV.	SLOPE %	TRENCH B.F.
P-10	S-10	COMBO 10226	WMQ	18	8	606.08	605.90	1.00%	3.8
P-11	S-11	COMBO 10226	WMQ	18	8	606.08	605.90	1.00%	3.8
P-12	S-12	S-13	WMQ	37	8	606.65	606.38	0.73%	5.6
P-13	S-13	S-14	WMQ	36	8	606.38	606.12	0.72%	5.8
P-14	S-14	COMBO 481	WMQ	30	8	606.12	605.90	0.73%	6.4
P-15	S-15	COMBO 481	WMQ	39	8	607.15	606.76	1.00%	5.6
P-16	S-16	S-17	WMQ	42	8	606.88	606.46	1.00%	5.4
P-17	S-17	S-18	WMQ	34	8	606.46	606.12	1.00%	5.4
P-18	S-18	COMBO 481	WMQ	27	8	606.12	605.85	1.00%	5.9
P-19	S-19	S-18	WMQ	31	8	607.03	606.72	1.00%	3.5
P-19A	COMBO 10226	COMBO 481	CIPP	341	12	605.88	605.72	0.05%	N/A
P-20	S-20	S-21	WMQ	37	8	606.54	606.15	1.05%	6.3
P-21	S-21	S-22	WMQ	32	8	606.15	605.83	1.00%	6.1
P-22	S-22	SAN 959	WMQ	24	8	605.83	605.38	1.88%	6.1
P-23	S-23	COMBO 1046	WMQ	35	8	606.45	606.10	1.00%	6.9
P-24	S-24	S-25	WMQ	36	8	607.00	606.61	1.08%	4.6
P-25	S-25	S-26	WMQ	32	8	606.61	606.26	1.09%	4.8
P-26	S-26	SAN 959	WMQ	37	8	606.26	605.85	1.11%	7.9
P-27	S-27	S-26	WMQ	35	8	606.86	606.48	1.09%	4.6
P-28	EXIST PIPE	SAN 959	WMQ	35	15	604.05	603.95	0.29%	26.0
P-29	SAN 959	EXIST PIPE	WMQ	35	15	604.02	603.92	0.29%	25.8
P-29A	COMBO 481	COMBO 1046	CIPP	357	12	605.60	604.95	0.18%	N/A
P-29B	COMBO 1046	COMBO 1218	CIPP	365	12	605.10	604.66	0.12%	N/A
P-30	S-30	S-31	WMQ	41	8	606.32	605.61	1.73%	5.8
P-31	S-31	S-32	WMQ	34	8	605.61	605.27	1.00%	6.2
P-32	S-32	COMBO 1254	WMQ	23	8	605.27	604.92	1.52%	5.6
P-33	S-33	S-32	WMQ	30	8	606.08	605.75	1.10%	4.2
P-34	S-35	S-36	WMQ	33	8	605.93	605.69	0.73%	4.3
P-34A	S-34	S-35	WMQ	40	8	606.33	605.93	1.00%	4.8
P-35	S-36	COMBO 1254	WMQ	39	8	605.69	605.40	0.74%	7.5
P-36	S-37	S-36	WMQ	32	8	605.99	605.69	0.94%	4.2
P-37	EXIST PIPE	COMBO 1254	WMQ	32	15	602.58	602.50	0.25%	26.9
P-38	EXIST PIPE	COMBO 1254	WMQ	35	12	603.23	603.22	0.03%	25.7
P-39	EXIST PIPE	EXIST PIPE	WMQ	8	21	602.26	602.23	0.37%	7.2
P-39A	S-38	S-39	WMQ	24	8	604.77	604.29	2.00%	4.2
P-39B	S-39	COMBO 1743	WMQ	25	8	604.19	602.72	5.88%	7.4
P-39C	S-39B	S-39A	WMQ	26	8	605.48	604.85	2.42%	3.7
P-39D	S-39A	COMBO 1743	WMQ	26	8	604.75	603.82	3.58%	6.1
P-39E	S-39C	S-39D	WMQ	36	8	605.47	605.11	1.00%	4.7
P-39F	S-39D	S-39E	WMQ	32	8	605.11	604.79	1.00%	4.9
P-39G	S-39E	COMBO 1544	WMQ	28	8	604.79	604.51	1.00%	5.8
P-39H	S-39F	S-39E	WMQ	37	8	605.49	605.12	1.00%	4.8
P-39I	EXIST PIPE	COMBO 1743	WMQ	34	15	602.05	601.97	0.24%	27.4
P-39J	EXIST PIPE	COMBO 1743	WMQ	35	15	602.24	602.12	0.34%	27.3
P-39K	COMBO 1743	EXIST PIPE	WMQ	18	21	601.04	601.01	0.17%	17.9
P-39L	COMBO 1218	COMBO 1544	CIPP	365	12	604.56	604.03	0.15%	N/A

SEWER SCHEDULE

PIPE NO.	FROM STR.	TO STR.	MATERIAL	LENGTH	DIA	UPPER INV	LOWER INV.	SLOPE %	TRENCH B.F.
P-40	S-40	S-41	WMQ	27	8	605.02	604.75	1.00%	3.5
P-41	S-41	S-42	WMQ	26	8	604.75	604.49	1.00%	4.4
P-42	S-42	COMBO 2018	WMQ	14	8	604.49	604.35	1.00%	3.1
P-43	S-43	S-42	WMQ	50	8	605.20	604.70	1.00%	7.5
P-44	S-44	S-45	WMQ	39	8	605.30	604.40	2.31%	5.5
P-45	S-45	S-46	WMQ	38	8	604.40	604.08	0.84%	6.7
P-46	S-46	COMBO 12643	WMQ	30	8	604.08	603.82	0.87%	7.3
P-47	S-47	S-46	WMQ	34	8	604.94	604.42	1.53%	4.8
P-48	EXIST PIPE	COMBO 2018	WMQ	19	24	EXIST	EXIST	N/A	21.0
P-49	EXIST PIPE	EXIST PIPE	WMQ	20	12	603.69	603.68	0.05%	6.3
P-49A	S-48	EXIST PIPE	WMQ	17	8	604.22	603.39	4.88%	3.9
P-49B	S-49	S-48	WMQ	56	8	604.78	604.22	1.00%	7.8
P-49C	S-49A	S-49B	WMQ	24	8	605.25	605.01	1.00%	2.5
P-49D	S-49B	COMBO 12027	WMQ	25	8	604.00	602.59	5.64%	6.9
P-49E	S-49F	S-49C	WMQ	44	8	604.87	604.43	1.00%	5.7
P-49F	S-49C	S-49D	WMQ	30	8	604.43	604.16	0.90%	4.7
P-49G	S-49E	S-49D	WMQ	32	8	604.68	604.36	1.00%	4.4
P-49H	S-49G	COMBO 12027	WMQ	44	24	598.95	598.91	0.09%	58.2
P-49I	COMBO 12027	EXIST PIPE	WMQ	44	30	598.86	598.81	0.11%	61.8
P-49J	EXIST PIPE	COMBO 12027	WMQ	17	24	599.84	599.81	0.18%	19.9
P-49K	S-49D	S-49G	WMQ	14	8	602.99	602.85	1.00%	4.2
P-49L	COMBO 1978	COMBO 12026	CIPP	220	12	603.45	602.82	0.29%	N/A
P-50	S-51	EXIST PIPE	WMQ	10	8	603.23	602.73	5.00%	3.0
P-51	S-50	S-51	WMQ	7	8	603.98	603.91	1.00%	1.3
P-52	S-56	S-50	WMQ	36	8	604.35	603.98	1.03%	5.1
P-53	S-52	EXIST PIPE	WMQ	17	8	603.56	602.71	5.00%	4.5
P-54	S-53	S-52	WMQ	22	8	604.34	604.12	1.00%	2.9
P-55	S-54	S-55	WMQ	35	8	604.09	603.74	1.00%	4.7
P-56	S-55	COMBO 12402	WMQ	27	8	603.64	602.92	2.67%	6.0
P-57	S-57	S-58	WMQ	31	8	604.16	603.85	1.00%	4.1
P-58	S-58	COMBO 12402	WMQ	28	8	603.75	603.22	1.89%	5.8
P-59	S-59	EXIST PIPE	WMQ	13	8	602.77	602.12	5.00%	4.1
P-59A	S-59A	EXIST PIPE	WMQ	11	8	602.67	602.12	5.00%	3.5
P-59B	COMBO 12026	COMBO 12334	CIPP	340	15	602.82	602.25	0.17%	N/A
P-59C	S-59B	CB 7008	WMQ	8	8	603.94	603.68	3.25%	1.3
P-59D	COMBO 12334	COMBO 12402	CIPP	21	18	602.25	602.07	0.86%	N/A
P-59E	COMBO 12402	COMBO 7179	CIPP	294	18	602.07	600.49	0.54%	N/A
P-60	S-60	EXIST PIPE	WMQ	15	8	603.44	601.57	12.47%	4.1
P-61	EXIST PIPE	EXIST PIPE	WMQ	12	18	EXIST	EXIST	N/A	11.1
P-62	S-61	S-62	WMQ	35	8	604.00	603.65	1.00%	5.0
P-63	S-62	COMBO 7678	WMQ	18	8	603.43	601.97	8.11%	4.8
P-64	S-63	S-62	WMQ	31	8	603.66	603.43	0.74%	5.1
P-65	S-64	S-63	WMQ	40	8	604.06	603.66	1.00%	5.2
P-66	S-65	S-66	WMQ	26	8	604.03	603.77	1.00%	3.5
P-67	S-66	COMBO 7678	WMQ	24	8	602.48	602.00	2.00%	7.3
P-68	S-67	COMBO 7678	WMQ	32	8	603.39	601.95	4.50%	8.2
P-69	S-68	S-67	WMQ	33	8	603.82	603.49	1.00%	4.5
P-69A	EXIST PIPE	COMBO 7678	WMQ	48	12	594.77	594.25	1.08%	82.8
P-69B	EXIST PIPE	COMBO 7678	WMQ	50	12	601.33	600.90	0.86%	35.8
P-69C	EXIST PIPE	EXIST PIPE	WMQ	22	12	601.27	601.01	1.18%	15.5

SEWER SCHEDULE

PIPE NO.	FROM STR.	TO STR.	MATERIAL	LENGTH	DIA	UPPER INV	LOWER INV.	SLOPE %	TRENCH B.F.
P-70	S-70	S-71	WMQ	34	8	603.96	603.60	1.06%	4.4
P-71	S-71	S-72	WMQ	33	8	603.60	603.33	0.82%	5.1
P-72	S-72	COMBO 2704	WMQ	29	8	603.33	602.76	1.97%	6.4
P-73	S-75	S-74	WMQ	37	8	603.67	603.30	1.00%	5.5
P-74	S-73	S-74	WMQ	15	8	603.57	603.42	1.00%	2.2
P-75	S-74	COMBO 2704	WMQ	31	8	603.30	601.51	5.77%	8.8
P-76	S-76	S-77	WMQ	28	8	603.75	603.54	0.75%	4.8
P-77	S-78	S-77	WMQ	10	8	603.97	603.87	1.00%	1.6
P-78	S-77	COMBO 2704	WMQ	23	8	603.54	602.71	3.61%	5.8
P-79	S-79	S-80	PVC U.D.	262	4	606.29	603.70	VARIES	N/A
P-79A	S-79A	S-82	PVC U.D.	260	4	606.29	603.76	VARIES	N/A
P-79B	EXIST PIPE	COMBO 3130	WMQ	49	12	601.32	601.20	0.24%	37.6
P-79C	EXIST PIPE	COMBO 3130	WMQ	23	12	600.45	600.35	0.43%	21.1
P-80	S-80	STM 3541	WMQ	18	8	602.62	602.19	2.39%	3.9
P-81	S-81	STM 3541	WMQ	19	8	602.57	602.19	2.00%	4.1
P-82	S-82	S-86	WMQ	16	8	602.68	602.52	1.00%	3.2
P-83	S-83	S-86	WMQ	24	8	602.74	602.26	2.00%	5.0
P-84	S-85	CB 3694	PVC U.D.	271	4	605.13	603.20	VARIES	N/A
P-85	S-84	CB 3803	PVC U.D.	272	4	605.12	603.20	VARIES	N/A
P-86	CB 3803	EXIST PIPE	WMQ	21	8	603.06	602.98	0.38%	2.2
P-87	S-86	COMBO 3369	WMQ	27	15	599.32	N/A	N/A	25.7
P-88	STM 3541	COMBO 3369	WMQ	34	15	N/A	N/A	N/A	32.8
P-90	S-90	CB 3694	PVC U.D.	283	4	604.67	603.20	VARIES	N/A
P-91	S-91	CB 3803	PVC U.D.	277	4	604.74	603.20	VARIES	N/A
P-92	COMBO 3954	EXIST PIPE	WMQ	16	10	602.95	602.85	0.63%	2.8
P-93	S-92	S-93	WMQ	38	8	603.43	603.06	0.97%	2.3
P-94	S-93	COMBO 3954	WMQ	32	8	603.06	602.95	0.34%	3.8
P-95	EXIST PIPE	EXIST PIPE	WMQ	20	8	EXIST	EXIST	N/A	1.9
P-96	EXIST PIPE	EXIST PIPE	WMQ	21	8	EXIST	EXIST	N/A	3.0
P-100	CB 4289	EXIST PIPE	WMQ	19	8	603.03	603.01	0.11%	2.2



ELEVATION BENCHMARKS DATUM:NAVD '88 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
OSBM H1	THE NORTHERLY SIDE OF CONC. BASE OF TRAFFIC SIGNAL AT SE CORNER OF 34TH ST. & HARLEM AV.	610.09
OSBM H2	NE CORNER OF THE FIRST STEP OF CONC. STAIRS TO HOUSE # 7002 34TH ST. AT SW CORNER OF 34TH ST. & HOME AV.	609.31
OSBM	NORTHEAST CORNER OF TRAFFIC CONTROL	607.32
23-1	BOX AT SW CORNER OF 34TH ST. & OAK PARK AV.	
OSBM	THE SOUTHWEST CORNER OF THE BOTTOM	608.79
23-2	CONC. STEP OF STAIRS TO HOUSE #6605 34TH ST.	
OSBM	THE NORTHEAST CORNER OF THE BOTTOM	607.80
23-3	CONC. STEP OF STAIRS TO HOUSE #6518 34TH ST.	
OSBM	THE SOUTHWEST CORNER OF TRAFFIC	606.42
23-4	CONTROL BOX AT NW CORNER OF 34TH ST. & RIDGELAND AV.	

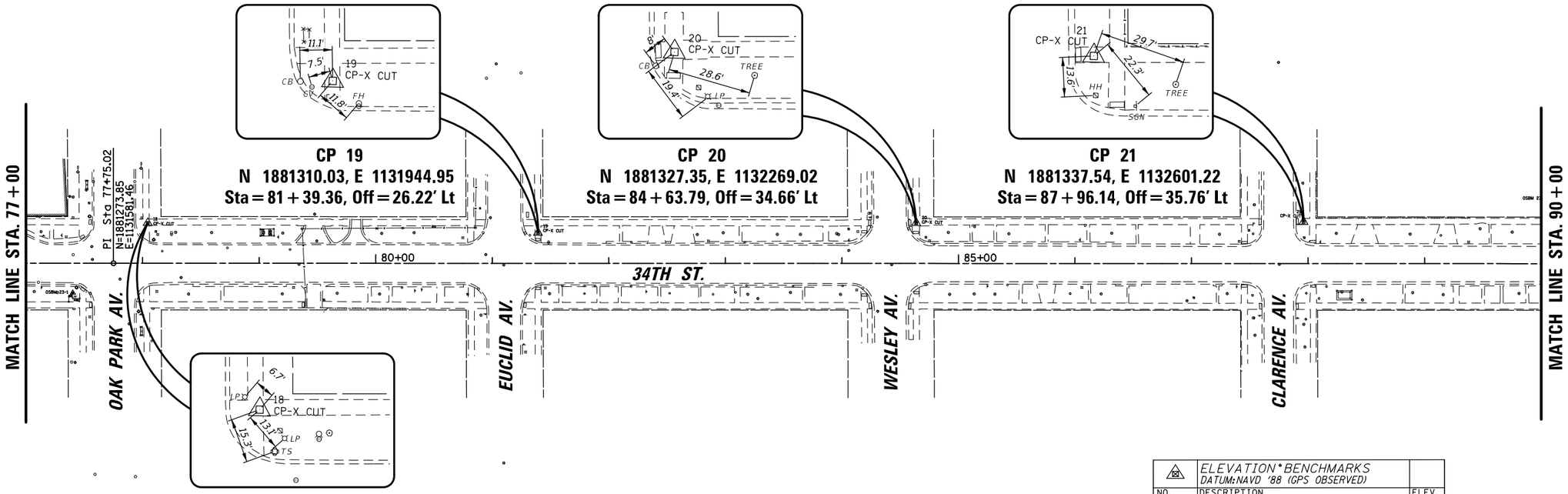
FILE NAME = N:\BERWYN\220369.02\Civil\BNH1_220369-02.SHT	USER NAME = mthomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100'	CHECKED -	REVISED -
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
ALIGNMENT, TIES AND BENCHMARKS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	19
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		



ELEVATION*BENCHMARKS DATUM:NAVD '88 (GPS OBSERVED)		
NO.	DESCRIPTION	ELEV.
OSBM H1	THE NORTHERLY SIDE OF CONC. BASE OF TRAFFIC SIGNAL AT SE CORNER OF 34TH ST. & HARLEM AV.	610.09
OSBM H2	NE CORNER OF THE FIRST STEP OF CONC. STAIRS TO HOUSE # 7002 34TH ST. AT SW CORNER OF 34TH ST. & HOME AV.	609.31
OSBM	NORTHEAST CORNER OF TRAFFIC CONTROL	607.32
23-1	BOX AT SW CORNER OF 34TH ST. & OAK PARK AV.	
OSBM	THE SOUTHWEST CORNER OF THE BOTTOM	608.79
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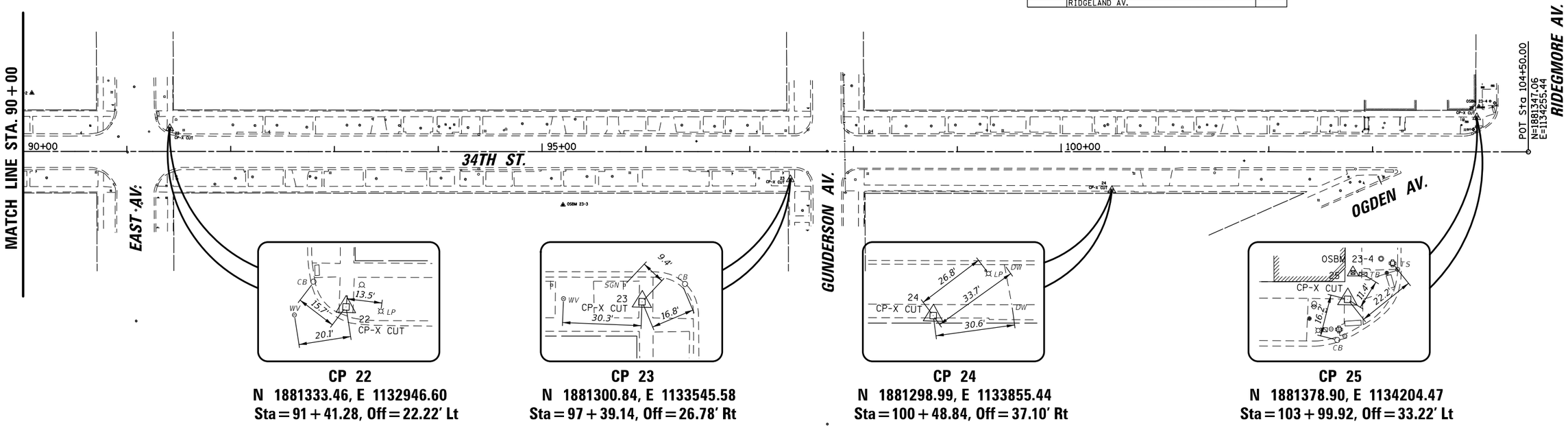
OSBM	THE NORTHEAST CORNER OF THE BOTTOM	607.80
23-3	CONC. STEP OF STAIRS TO HOUSE #6518 34TH ST.	
OSBM	THE SOUTHWEST CORNER OF TRAFFIC	606.42
23-4	CONTROL BOX AT NW CORNER OF 34TH ST. & RIDGELAND AV.	



FILE NAME = N:\BERWYN\220369.02\Civil\BNH2_220369-02.SHT	USER NAME = mthomas	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	34TH STREET REHABILITATION ALIGNMENT, TIES AND BENCHMARKS	F.A.U RTE.	SECTION
	PLOT SCALE = 100'	DRAWN -	REVISED -			3734	23-00177-00-PV
	PLOT DATE = 11/10/2025	CHECKED -	REVISED -				
Default		DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		

COUNTY	TOTAL SHEETS	SHEET NO.
COOK	97	20
CONTRACT NO. 61M09		
ILLINOIS FED. AID PROJECT		

ALL ABANDONED SEWERS AND HOLES LEFT IN STORM/COMBINED STRUCTURES SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET OF NON-SHRINK CONCRETE.

SCALE 1" = 20'

0 20 40

N

VV 10165
RIM=610.54

INSPECTION WELL=610.87
INSPECTION WELL=610.84

PROJECT BEGINS
STA 50+31.00

50+00

REM

CB 10363
RIM=609.16
INV S 6" PVC=607.06

FHR

VV 10364
RIM=609.85
TOP E/W 8" DIP=604.82
TOP OF WATER=605.25

REMOVE 6" STORM SEWER
35 LF

CURB AND GUTTER
REMOVAL, 348 LF

PAVEMENT REMOVAL
142 SY

APPROXIMATE R.O.W. LINE

INSPECTION WELL=610.00

"NO PARKING"

MCI
VERIZON

"RESIDENTIAL PARKING"

34TH ST.

BORE HOLE B1

"25 MPH"

SPL

BORE HOLE H1

INSPECTION WELL=609.99

COMBO 10226 CONC.
RIM=610.10
INV N 6" PVC=605.90
INV E 12" RCP=605.88
SEVERE OFFSET
INV S 6" PVC=605.90

BENCH

CB 10215
RIM=609.32
INV N 6" PVC=606.60
TOP OF WATER=606.62

CURB AND GUTTER
REMOVAL, 353 LF

HMA SURFACE REMOVAL, 2 1/4"
1650 SY

HARLEM AV.

"NO TURN ON RED"

REMOVE, 8" STORM SEWER
39 LF

FVV

VV 477
RIM=609.73
TOP OF NUT=606.33
TOP OF WATER=607.23

CB 478
RIM=609.30
INV E 8" PVC=607.22

VV 479
RIM=609.94
TOP OF NUT=606.64
TOP OF WATER=606.94

CB 480
RIM=609.29
INV SW 6" PVC=604.99
TOP OF WATER=605.59

REMOVE, 6"
STORM SEWER
28 LF

COMBO 481
RIM=610.15
INV N 8" PVC=605.65
INV E 12" PVC=605.60
INV S 8" PVC=605.85
INV SSW 6" PVC=605.90
INV W 12" RCP=605.72
INV NW 6" PVC=605.85

CURB AND GUTTER
REMOVAL, 87 LF

"STOP"

RECON

CB 484
RIM=609.29
INV E 6" PVC=607.04

VV 483
RIM=609.74
TOP N/S 6" DIP=605.14
TOP OF WATER=607.04

CURB AND GUTTER
REMOVAL, 88 LF

REMOVE, 6"
STORM SEWER
28 LF

CB 482
RIM=609.27
INV N 6" PVC=604.87
INV W 6" PVC=606.27
TOP OF WATER=606.05

REMOVE, 6" STORM SEWER
40 LF

MAPLE AV.

MATCH LINE STA. 54+50

EXISTING LEGEND

CLASS B PATCHES, 10"	TREE TRUNK PROTECTION
HMA SURFACE REMOVAL, 2 1/4"	SEWER REMOVAL
SIDEWALK REMOVAL	ADJ — STRUCTURE TO BE ADJUSTED
DRIVEWAY PAVEMENT REMOVAL	SPL — FRAME & LIDS TO BE ADJUSTED, SPECIAL
PAVEMENT REMOVAL	REM — STRUCTURE TO BE REMOVED
COMB CURB AND GUTTER REMOVAL	RECON — STRUCTURE TO BE RECONSTRUCTED
	FVV — FILLING VALVE VAULTS
	FHR — FIRE HYDRANT TO BE REMOVED

VV PER ATLAS
(NOT FOUND)

CB 811
RIM=609.08
INV E 8" PVC=606.73
TOP OF WATER=606.63

VV 812
RIM=609.82
TOP E/W 8"=605.32
TOP OF WATER=605.82

CURB AND GUTTER
REMOVAL, 278 LF

APPROXIMATE R.O.W. LINE

"RESIDENTIAL PARKING"

CB 871
RIM=609.11
INV SW 8" PVC=604.81
INV W 8" PVC=604.79

COMBO 1046
RIM=609.85
INV N 8" RCP=605.55
TOP N/S 4" DIP=605.85
THRU GAS PIPE
INV E 12" RCP=605.10
INV W 12" RCP=604.95
INV NW 8" RCP=605.55

REMOVE, 8" STORM SEWER
39 LF

CURB AND GUTTER
REMOVAL, 280 LF

34TH ST.

55+00

RECON

CB 958
RIM=609.20
INV E 8" PVC=606.82
TOP OF WATER=606.80

REMOVE, 8" STORM SEWER
36 LF

VV 957
RIM=609.57
TOP OF NUT=606.02
TOP OF WATER=606.29

CURB AND GUTTER
REMOVAL, 277 LF

REMOVE, 8" STORM SEWER
26 LF

CB 955
RIM=609.11
INV W 8" PVC=606.16
INV NW 8" PVC=603.76
TOP OF WATER=605.55

SAN 959
RIM=610.00
INV N 15" RCP=603.95
INV NE 8" PVC=605.85
INV E 15" RCP=603.40
INV SE 8" PVC=605.38
INV S 15" RCP=604.02

HMA SURFACE REMOVAL, 2 1/4"
2001 SY

CURB AND GUTTER
REMOVAL, 280 LF

WISCONSIN AV.

REMOVE, 15" COMBINED SEWER
70 LF TOTAL

MATCH LINE STA. 55+00

MATCH LINE STA. 60+00

FILE NAME = N:\BERWYN\220369.02\Civil\REM1_220369-02.SHT	USER NAME = mthomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40'	CHECKED -	REVISED -
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
EXISTING CONDITIONS AND REMOVAL PLAN

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	21

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT

ALL ABANDONED SEWERS AND HOLES LEFT IN STORM/COMBINED STRUCTURES SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET OF NON-SHRINK CONCRETE.

SCALE 1" = 20'

0 20 40

N

MATCH LINE STA. 60+00

MATCH LINE STA. 66+00

REMOVE, 8" STORM SEWER 34 LF

VV PER ATLAS (NOT FOUND)

CB 1126 RIM=608.20 INV E 8" VCP=606.45

CURB AND GUTTER REMOVAL, 91 LF

VV 1125 RIM=609.03 TOP OF NUT=605.53 TOP OF WATER=605.53

REMOVE, 15" COMBINED SEWER 32 LF

CB 1194 RIM=608.43 INV SW 8" PVC=604.33 INV W 8" PVC=605.80 TOP OF WATER=605.53

REMOVE, 8" STORM SEWER 39 LF

COMBO 1218 RIM=609.16 INV N 8" RCP=605.24 TOP N/S 4"=605.31 THRU GAS PIPE INV E 12" RCP=604.56 INV S 8" RCP=605.06 INV SW 8" RCP=605.06 INV W 12" RCP=604.66

CURB AND GUTTER REMOVAL, 370 LF

APPROXIMATE R.O.W. LINE

REMOVE, 8" STORM SEWER 42 LF

VV 1459 RIM=608.06 TOP N/S=603.36 TOP OF DEBRIS=603.96

REMOVE, 15" COMBINED SEWER 34 LF

CB 1458 RIM=607.78 INV SE 8" PVC=602.78 TOP OF WATER=603.73

REMOVE, 8" STORM SEWER 40 LF

VV 1455 RIM=608.23 TOP E/W 8"=603.51 TOP OF WATER=606.93

CB 1521 RIM=607.72 INV SW 8" PVC=602.92 TOP OF WATER=603.82

COMBO 1544 RIM=608.43 INV N/S 4" DIP=604.63 THRU GAS PIPE INV E 12" VCP=603.87 INV SW 8" VCP=604.63 INV W 12" VCP=604.03 INV NW 8" VCP=604.83

VV 1524 RIM=608.12 TOP OF NUT E/W=604.82 TOP OF WATER=606.62

CURB AND GUTTER REMOVAL, 151 LF

STONE WALL

34TH ST.

60+08 61 62 63 64 65+00

"STOP AHEAD"

"RESIDENTIAL PARKING"

"BIKE ROUTE"

ADESTA

CURB AND GUTTER REMOVAL, 91 LF

CB 1262 RIM=608.48 INV E 8" PVC=605.98 TOP OF WATER=606.03

"PERMIT PARKING"

VV 1261 RIM=608.85 TOP OF NUT=605.85 TOP OF WATER=606.35

REMOVE, 8" STORM SEWER 37 LF

WENONAH AV.

CB 1253 RIM=608.61 INV W 8" PVC=605.21 INV NW 8" PVC=603.71 TOP OF WATER=605.31

REMOVE, 8" STORM SEWER 26 LF

COMBO 1254 RIM=609.30 INV NE 8" PVC=605.40 INV E 21" PVC=602.50 INV SE 8" PVC=604.92 INV S 12" PVC=603.22 INV W 15" PVC=602.50

REMOVE, 12" COMBINED SEWER 35 LF

REMOVE, 21" COMBINED SEWER 8 LF

CURB AND GUTTER REMOVAL, 371 LF

HMA SURFACE REMOVAL, 2 1/4" 2331 SY

REMOVE, 8" STORM SEWER 25 LF

OSBM H2

CB 1742 RIM=607.44 INV NE 8" PVC=602.24 TOP OF WATER=602.54

COMBO 1743 RIM=608.42 INV N 15" RCP=601.97 INV NE 8" PVC=603.07 INV E 21" RCP=601.04 INV SE 8" PVC=603.82 INV S 15" RCP=602.12 INV SW 8" PVC=602.72 INV W 21" RCP=601.04 INV NW 8" PVC=602.70

REMOVE, 15" COMBINED SEWER 35 LF

HOME AV.

CURB AND GUTTER REMOVAL, 150 LF

REMOVE, 21" COMBINED SEWER 18 LF

REMOVE, 8" STORM SEWER 28 LF

CB 1800 RIM=607.80 INV NW 8" PVC=602.73 TOP OF WATER=604.65

VV 1787 RIM=607.93 TOP OF NUT=605.58 TOP OF WATER=605.93

COMBO 1673 RIM=608.51 INV E 12" VCP=603.96 INV W 12" VCP=603.96 FULL OF SEDIMENT

EXISTING LEGEND

CLASS B PATCHES, 10"	TREE TRUNK PROTECTION
HMA SURFACE REMOVAL, 2 1/4"	SEWER REMOVAL
SIDEWALK REMOVAL	ADJ — STRUCTURE TO BE ADJUSTED
DRIVEWAY PAVEMENT REMOVAL	SPL — FRAME & LIDS TO BE ADJUSTED, SPECIAL
PAVEMENT REMOVAL	REM — STRUCTURE TO BE REMOVED
COMB. CURB AND GUTTER REMOVAL	RECON — STRUCTURE TO BE RECONSTRUCTED
	FVV — FILLING VALVE VAULTS
	FHR — FIRE HYDRANT TO BE REMOVED

MATCH LINE STA. 66+00

MATCH LINE STA. 72+00

REMOVE, 8" STORM SEWER 38 LF

VV 1875 RIM=607.86 TOP N/S 8" DIP=603.66

CB 1876 RIM=607.28 INV E 8" PVC=605.28

CURB AND GUTTER REMOVAL, 193 LF

REMOVE, 12" COMBINED SEWER 21 LF

CLINTON AV.

CB 1939 RIM=607.26 INV SE 8" PVC=602.51 INV W 8" PVC=604.53 TOP OF WATER=604.26

AT&T (ATLAS) NOT FOUND

REMOVE, 8" STORM SEWER 30 LF

COMBO 12643 RIM=608.32 INV N 8" PVC=604.42 INV E 12" VCP=603.67 INV S 8" RCP=604.30 INV W 12" RCP=603.67 INV NW 8" VCP=603.82

CURB AND GUTTER REMOVAL, 353 LF

REMOVE, 8" STORM SEWER 27 LF

CB 12022 RIM=607.10 INV E 6" PVC=603.95 INV SE 8" PVC=601.68 TOP OF WATER=604.00

REMOVE, 8" STORM SEWER 42 LF

VV 12024 RIM=607.63 TOP N/S 8" DIP=601.03

COMBO 12026 RIM=608.07 INV N 8" PVC=603.77 INV E 15" RCP=602.82 INV SE 8" VCP=603.07 INV SW 8" PVC=603.02 INV W 12" RCP=602.82

REMOVE, 6" STORM SEWER 30 LF

REMOVE, 24" COMBINED SEWER 45 LF

CB 12072 RIM=607.14 INV W 6" PVC=604.44

COMBO 12027 RIM=608.01 INV N 24" RCP=598.91 INV SE 8" VCP=602.59 INV S 30" RCP=598.86 INV W 24" RCP=599.81

CURB AND GUTTER REMOVAL, 98 LF

34TH ST.

66 67 68 69 70+00

"RESIDENTIAL PARKING"

"YIELD TO PED"

"PED XING"

"NO PARKING"

"PLAYGROUND"

ADESTA

CURB AND GUTTER REMOVAL, 194 LF

REMOVE, 21" COMBINED SEWER 21 LF

CB 2019 RIM=607.33 TOP OF DEBRIS=603.33 TOP OF WATER=603.93

VV 2020 RIM=607.86 TOP N/S 6" DIP=603.46 TOP OF WATER=606.56

HMA SURFACE REMOVAL, 2 1/4" 2323 SY

COMBO 2018 RIM=608.23 BROKEN LID CAN NOT OPEN

REMOVE, 8" STORM SEWER 25 LF

CB 2017 RIM=607.39 INV NW 8" PVC=602.71 TOP OF WATER=603.04

COMBO 1978 RIM=608.05 INV E 12" VCP=603.45 INV W 12" VCP=604.00

CURB AND GUTTER REMOVAL, 353 LF

REMOVE, 6" STORM SEWER 15 LF

CB 2189 RIM=607.21 INV N 6" PVC=605.14

CB 12162 RIM=607.13 INV NE 8" PVC=602.33 TOP OF WATER=603.33

REMOVE, 24" COMBINED SEWER 18 LF

VV 12161 RIM=607.60 TOP N/S 6"=603.40 TOP OF WATER=606.20

KENILWORTH AV.

CURB AND GUTTER REMOVAL, 97 LF

STM 12243 RIM=607.71 INV NW 8" VCP=603.71 TOP OF WATER=604.61

CB 12233 RIM=607.10 INV NW 8" PVC=601.88 TOP OF WATER=602.60

REMOVE, 8" STORM SEWER 26 LF

REMOVE, 30" COMBINED SEWER 44 LF

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		DRAWN -	REVISED -
	PLOT SCALE = 40'	CHECKED -	REVISED -
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

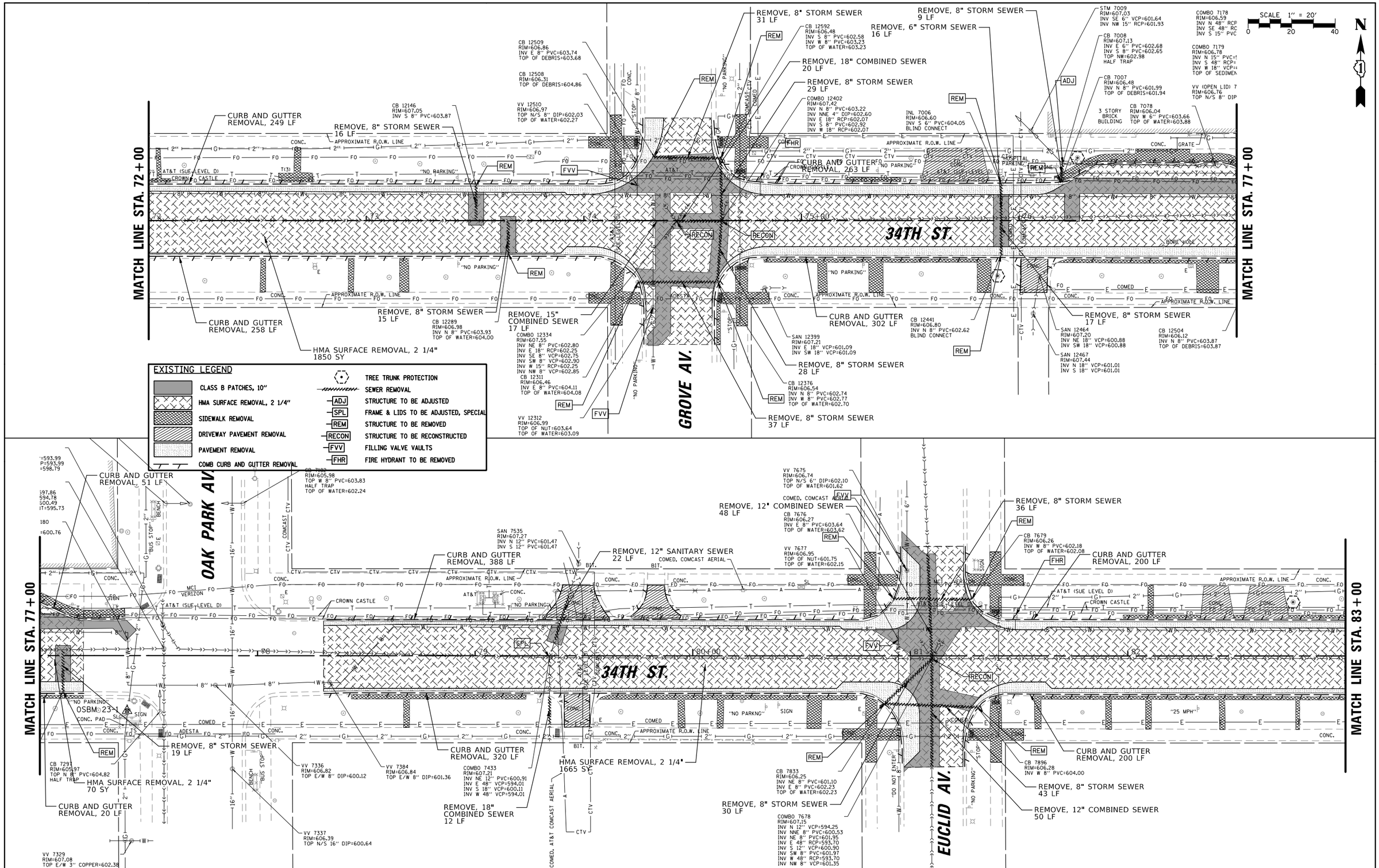
34TH STREET REHABILITATION
EXISTING CONDITIONS AND REMOVAL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	22

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT



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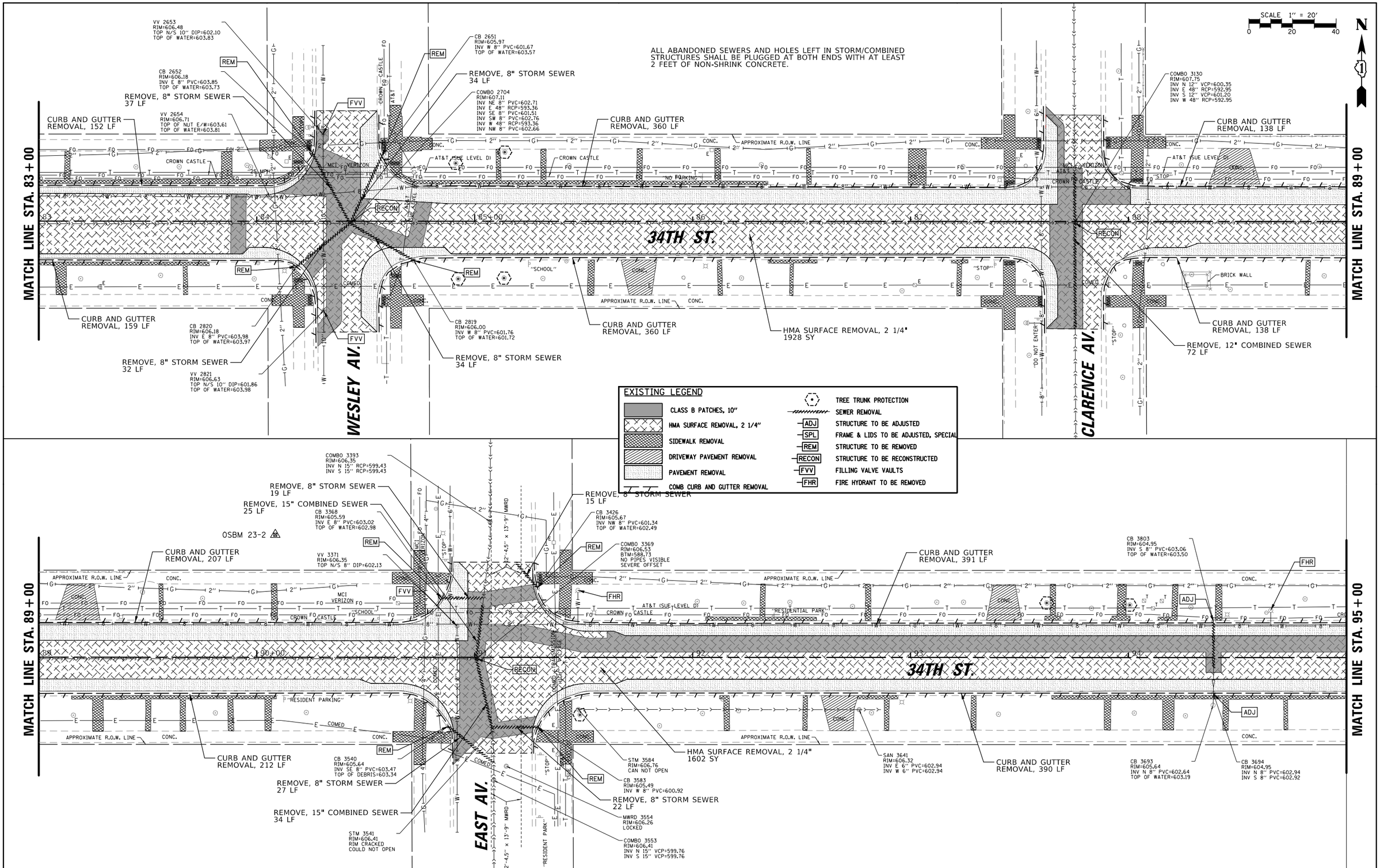
		DRAWN -	REVISED -			3734	23-00177-00-PV	COOK	97	23
	PLOT SCALE = 40'	CHECKED -	REVISED -					CONTRACT NO. 61M09		
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



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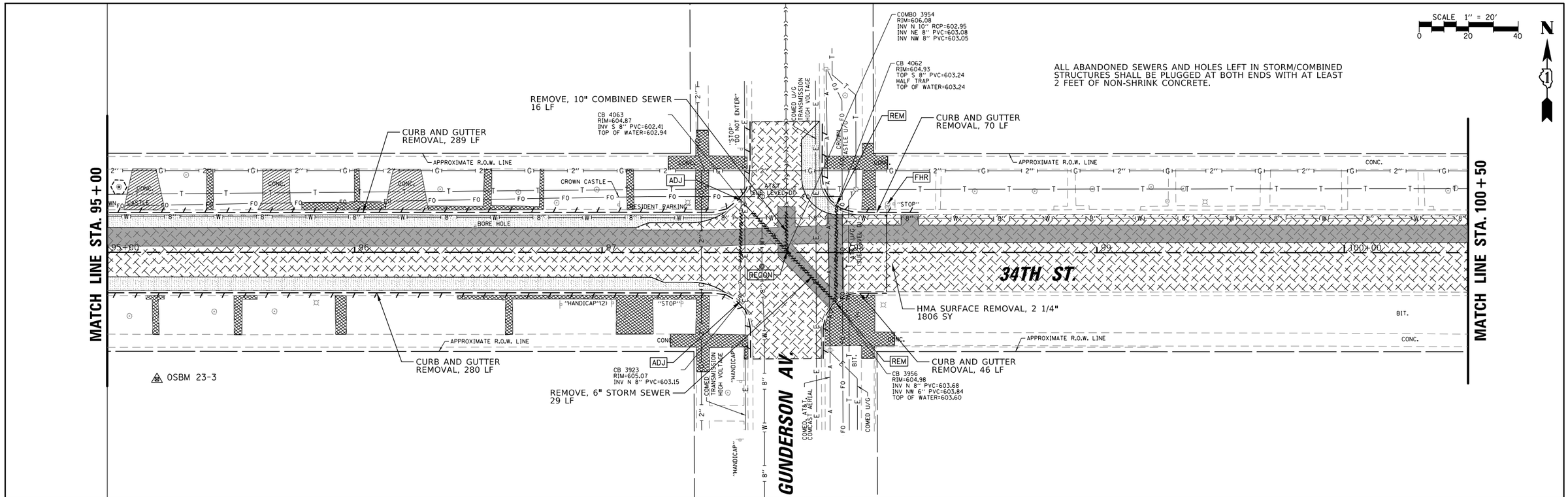
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
EXISTING CONDITIONS AND REMOVAL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	24
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		



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Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

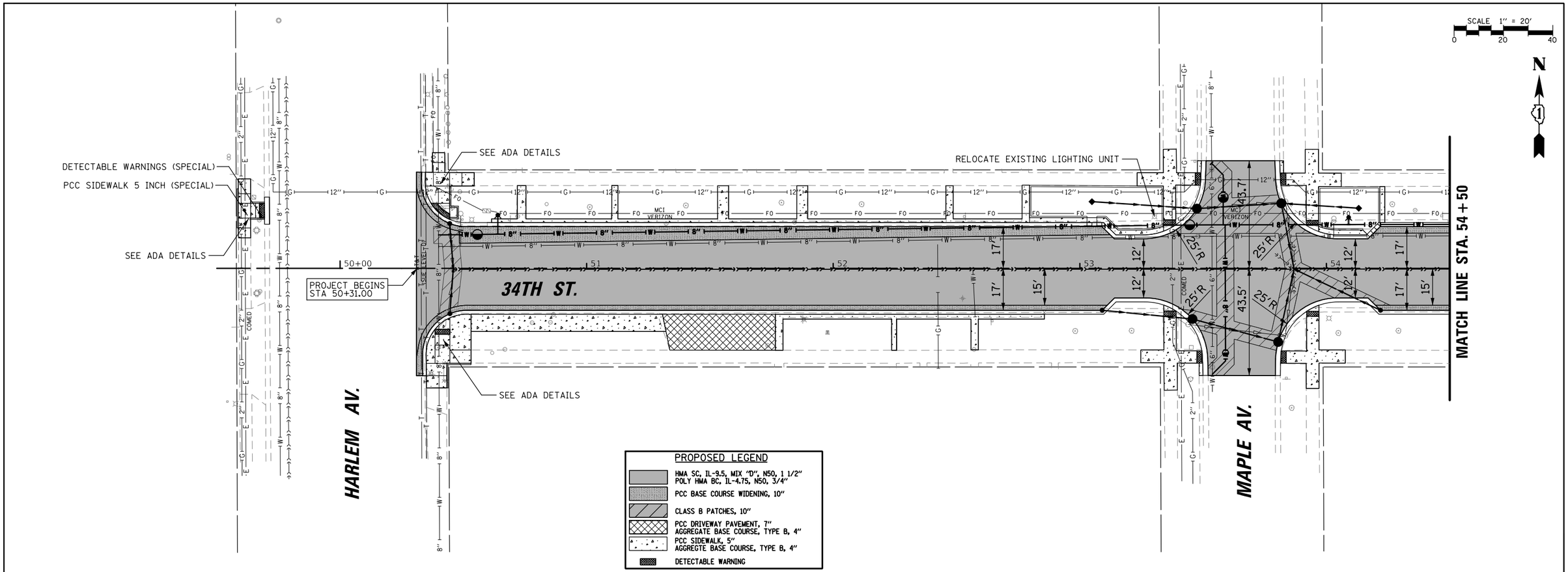
34TH STREET REHABILITATION
EXISTING CONDITIONS AND REMOVAL PLAN

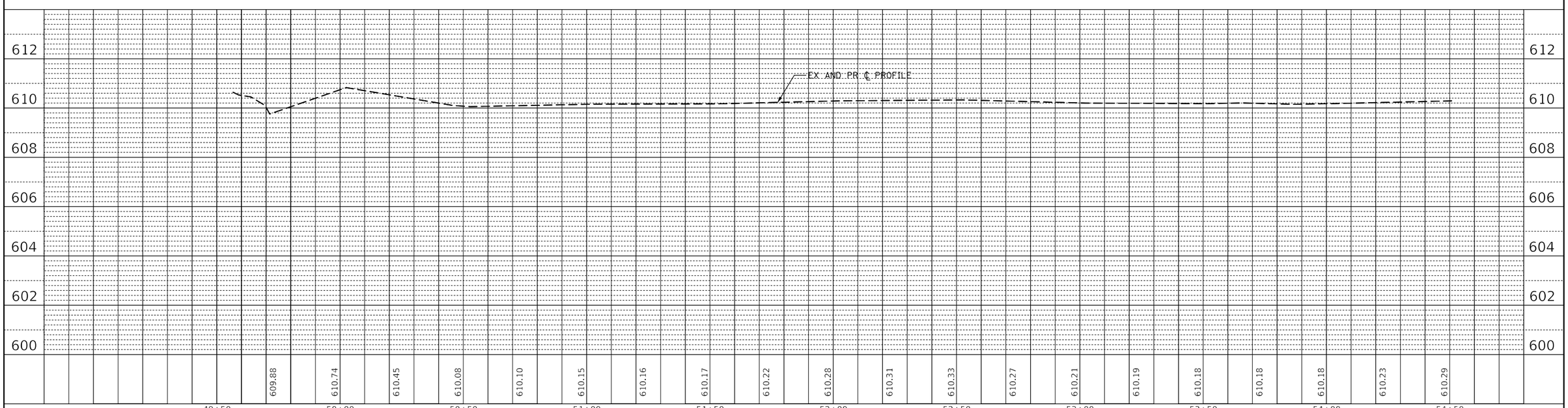
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	25

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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PROFILE	BY	DATE
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NOTE BOOK NO.		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

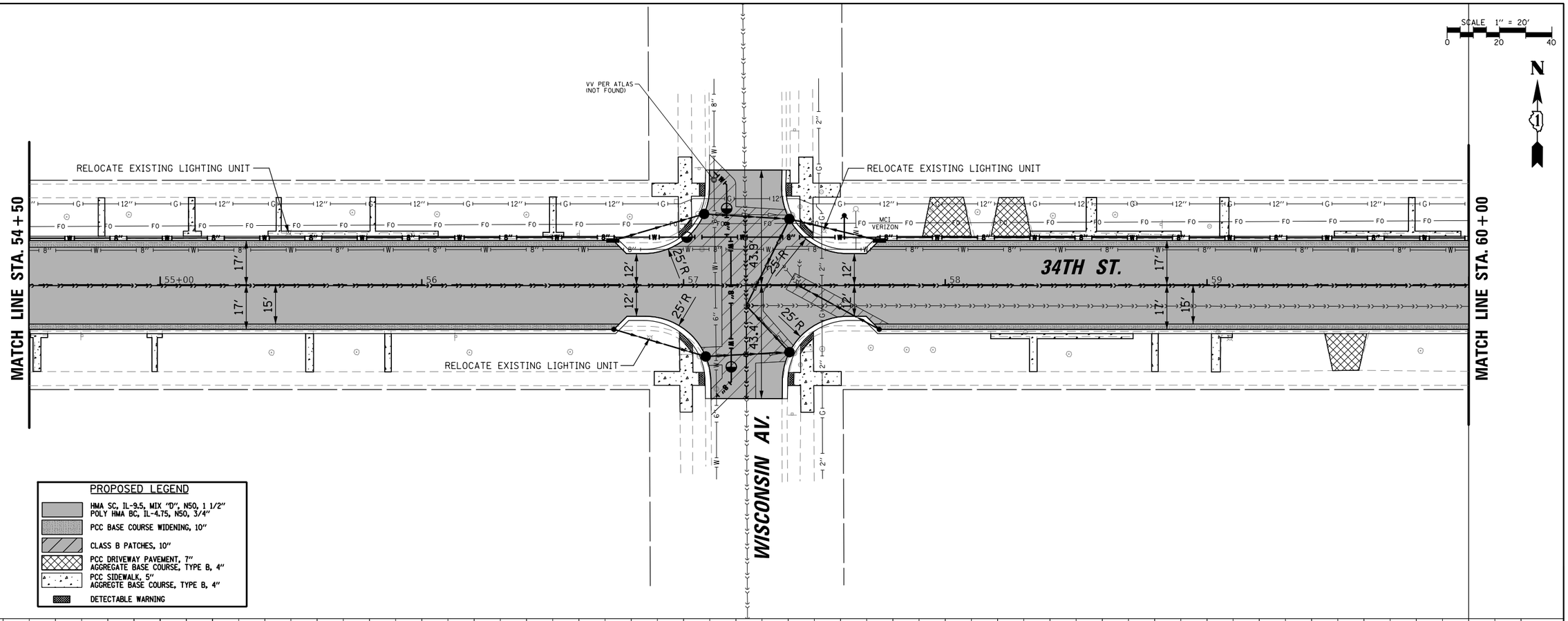
34TH STREET REHABILITATION
ROADWAY PLAN AND PROFILE

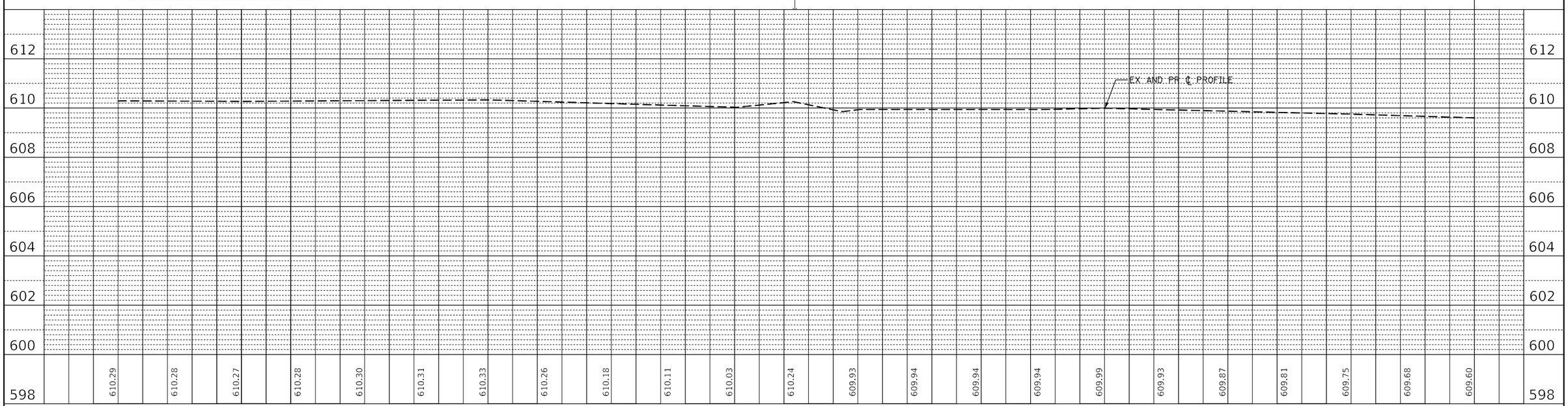
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	26

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

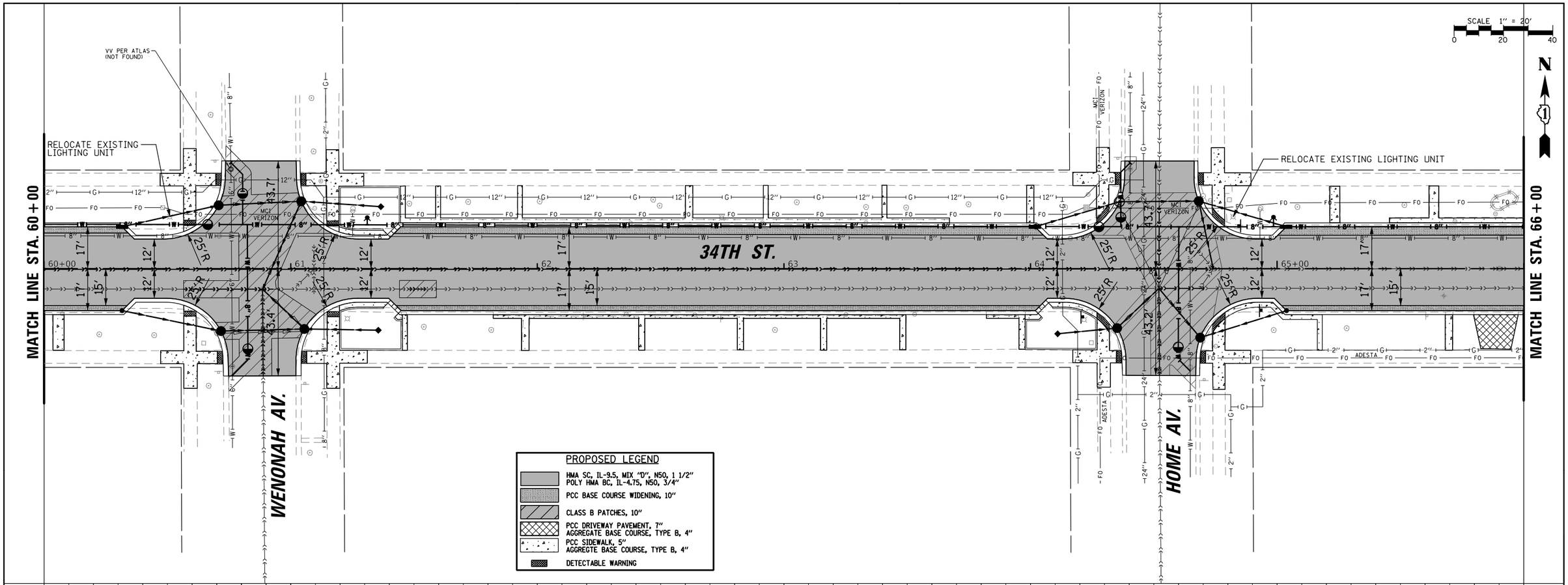
34TH STREET REHABILITATION
ROADWAY PLAN AND PROFILE

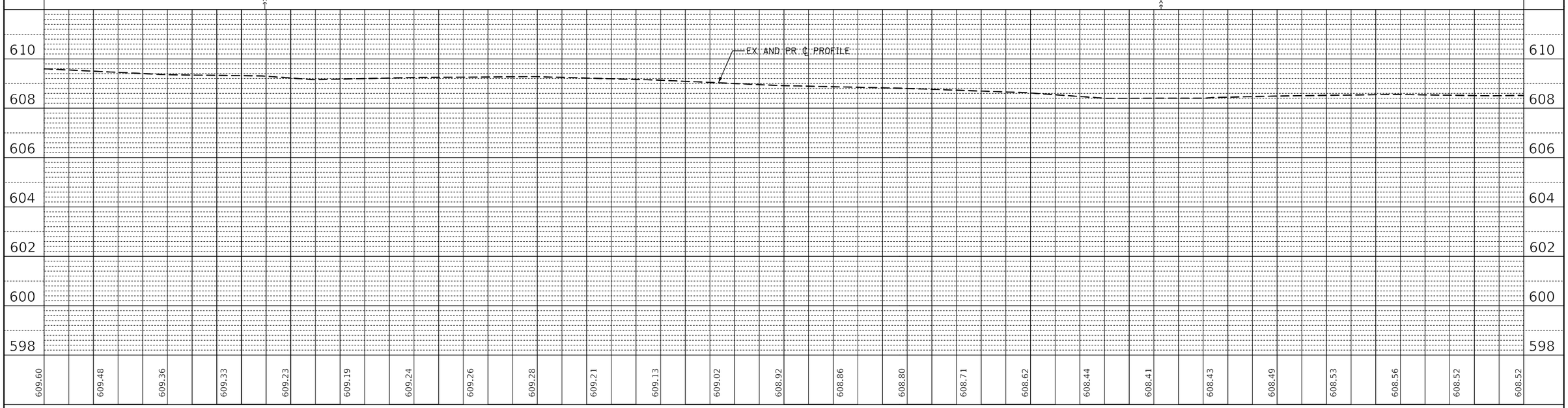
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	27

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

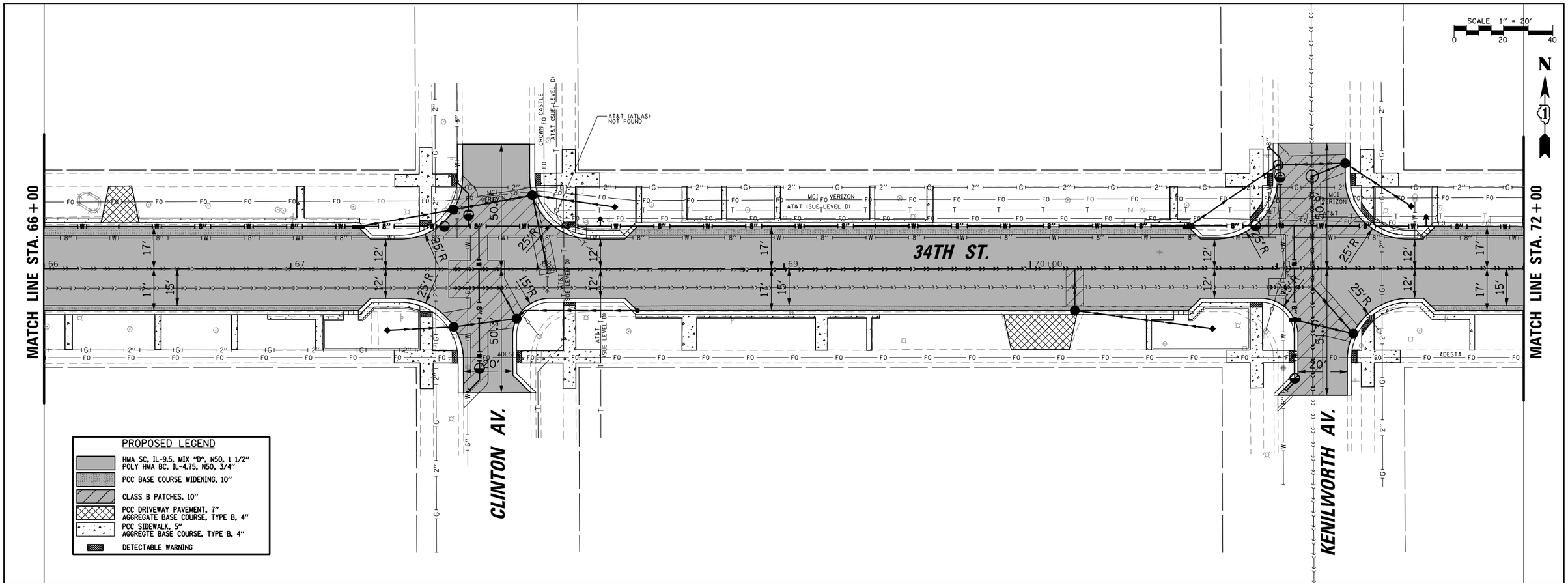
34TH STREET REHABILITATION
ROADWAY PLAN AND PROFILE

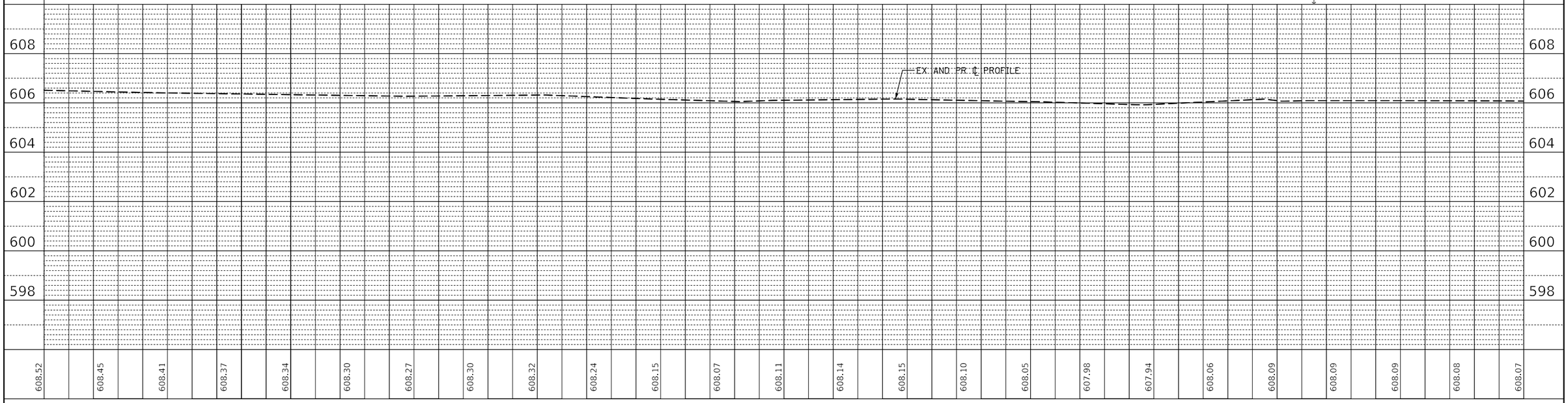
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	28

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
ROADWAY PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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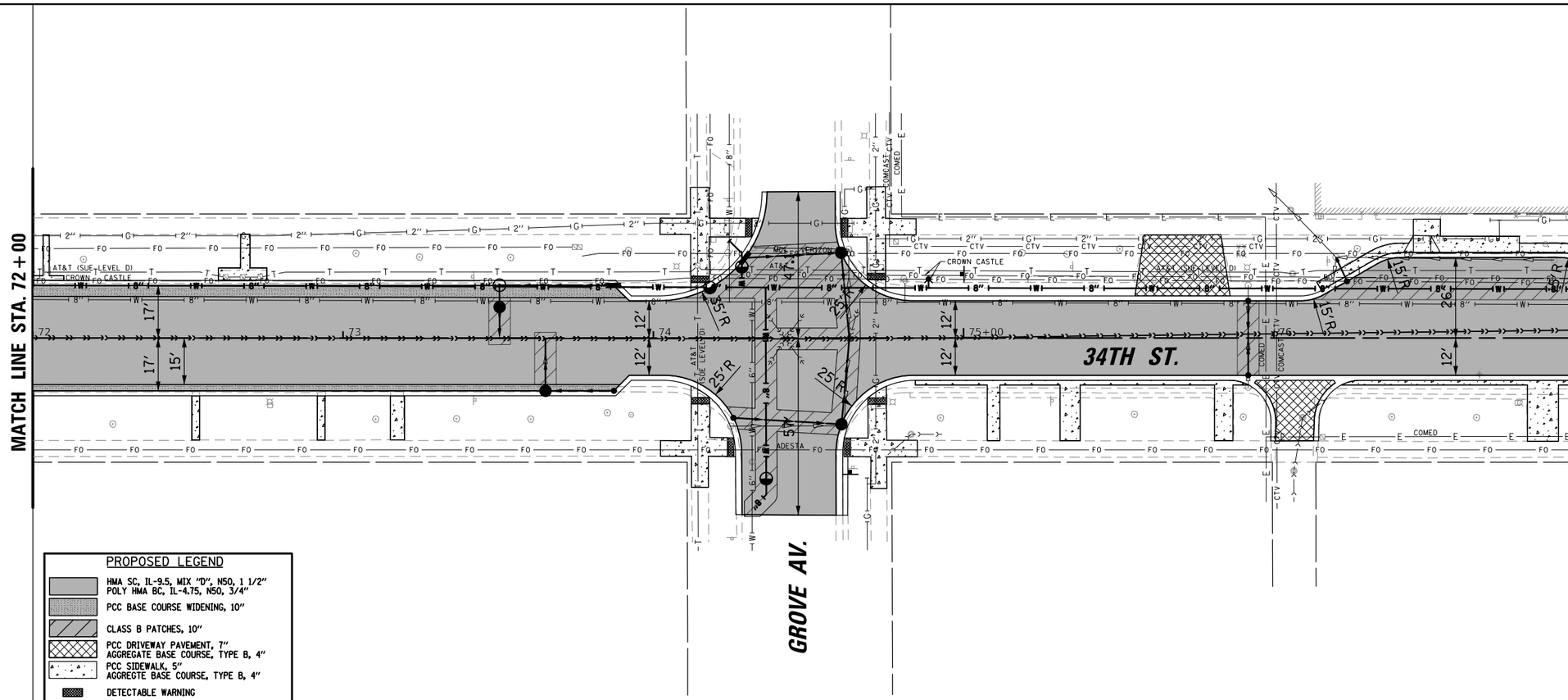
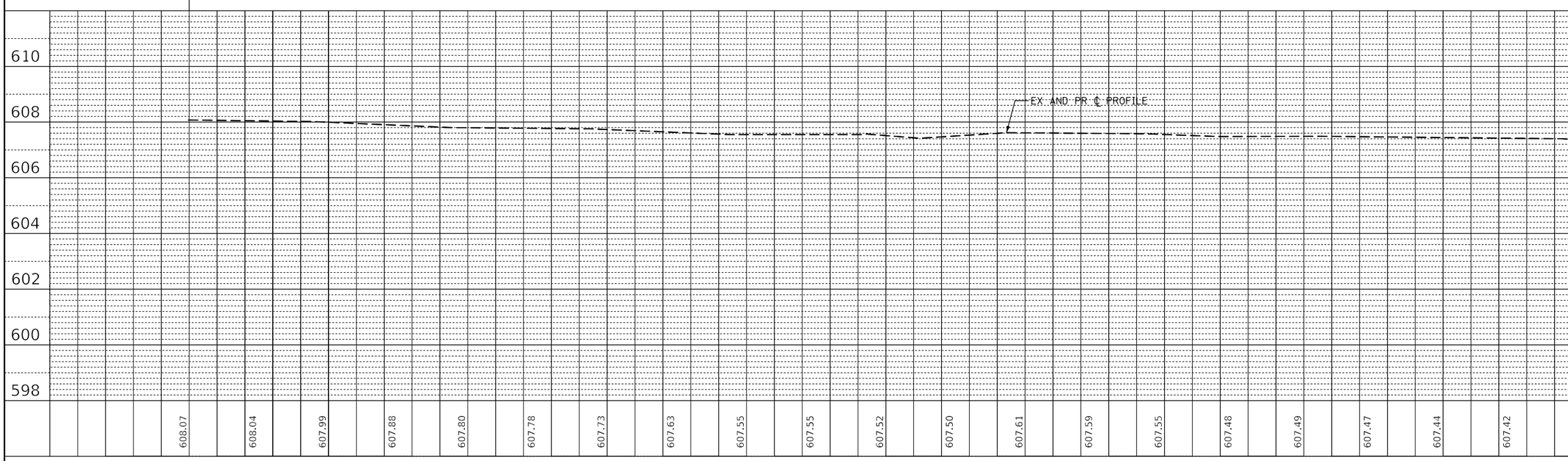


PROPOSED LEGEND

- HMA SC, IL-9.5, MIX "D", N50, 1 1/2"
  POLY HMA BC, IL-4.75, N50, 3/4"
- PCC BASE COURSE WIDENING, 10"
- CLASS B PATCHES, 10"
- PCC DRIVEWAY PAVEMENT, 7"
  AGGREGATE BASE COURSE, TYPE B, 4"
- PCC SIDEWALK, 5"
  AGGREGTE BASE COURSE, TYPE B, 4"
- DETECTABLE WARNING



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
ROADWAY PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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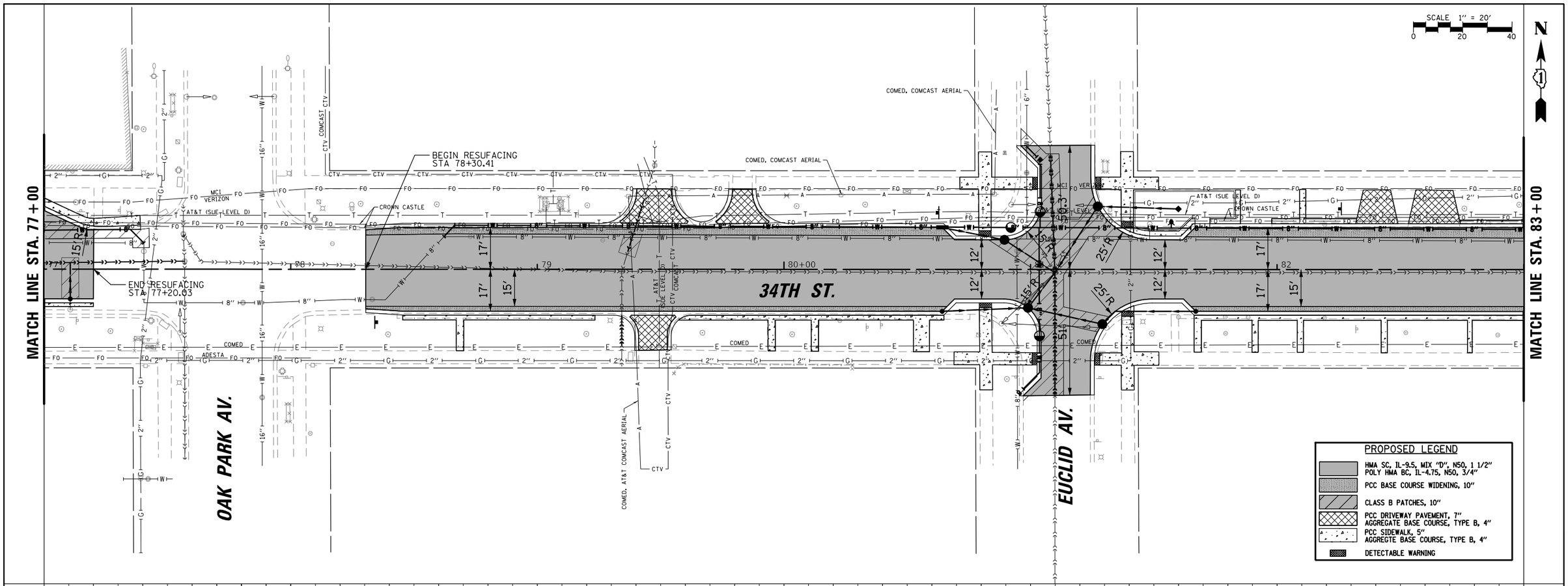

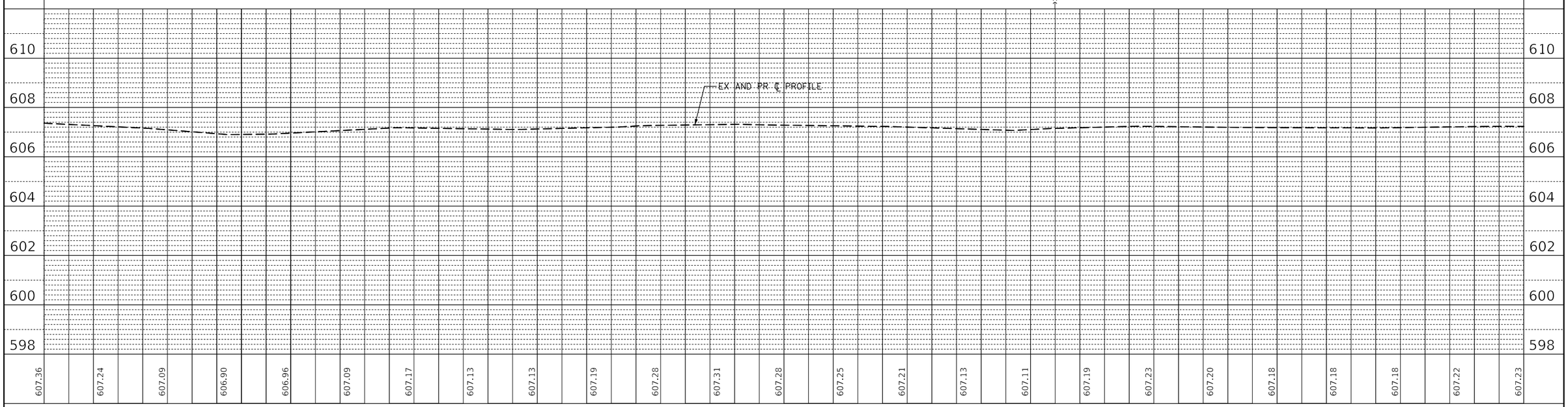

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NOTE BOOK NO.		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

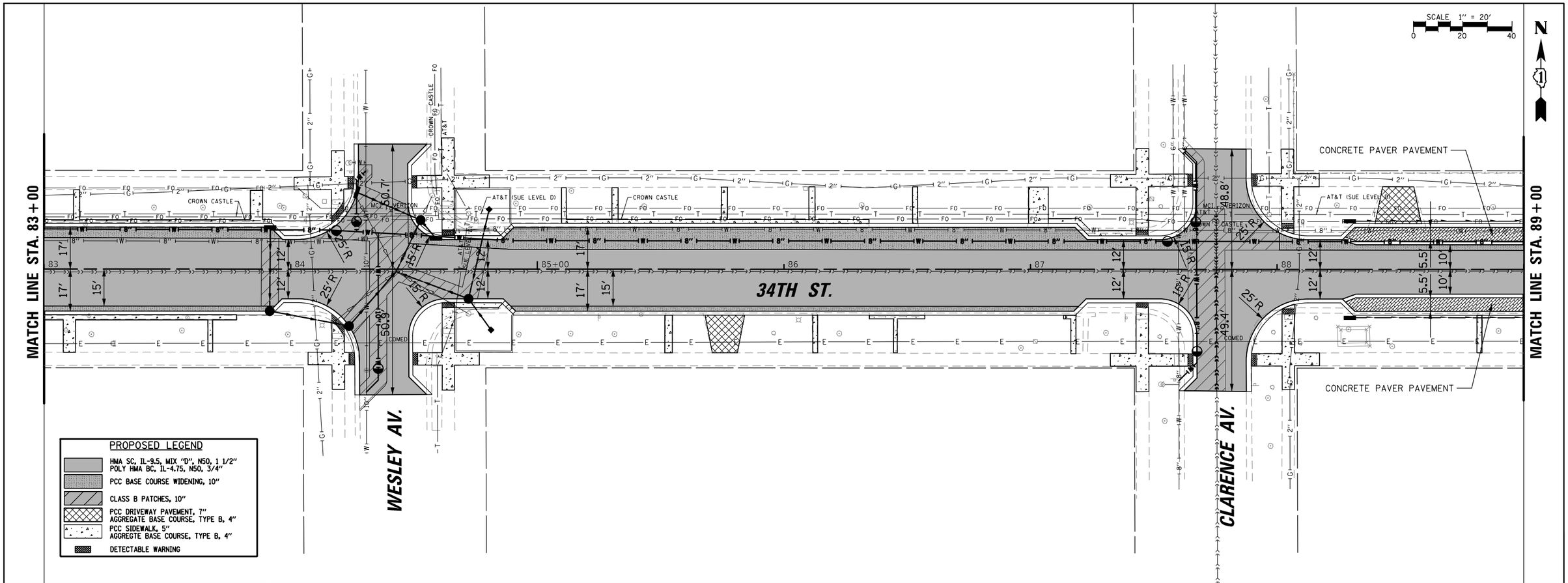
34TH STREET REHABILITATION
ROADWAY PLAN AND PROFILE

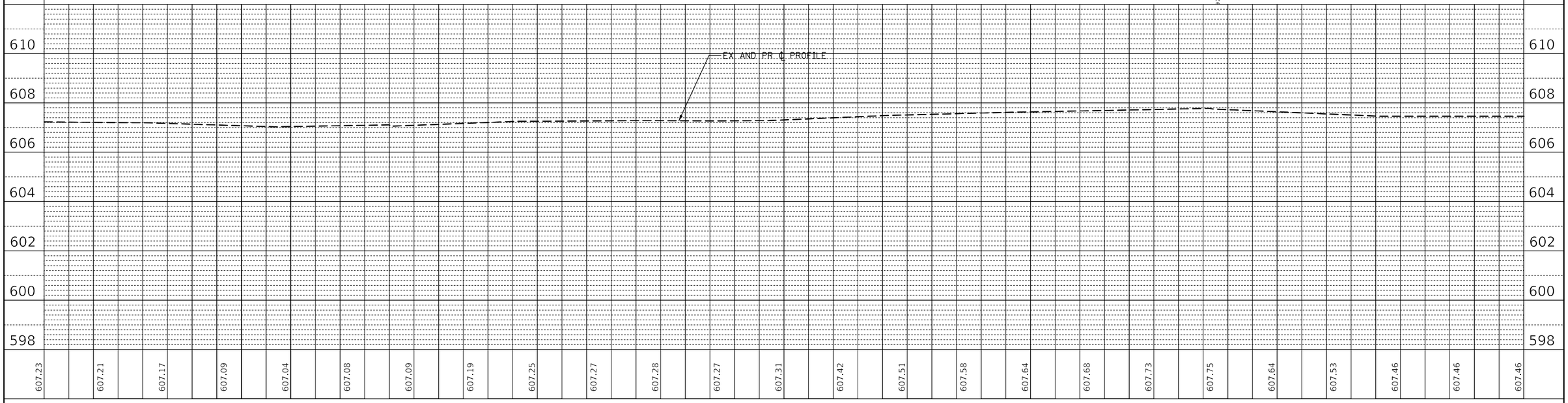
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	31

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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NOTE BOOK NO. ____	SURVEYED PLOTTED ALIGNMENT CHECKED RT. OF WAY CHECKED CADD FILE NAME		

PROFILE		BY	DATE
NOTE BOOK NO. ____	SURVEYED PLOTTED GRADES CHECKED B.M. NOTED STRUCTURE NOTATINS CHKD		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
ROADWAY PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	32
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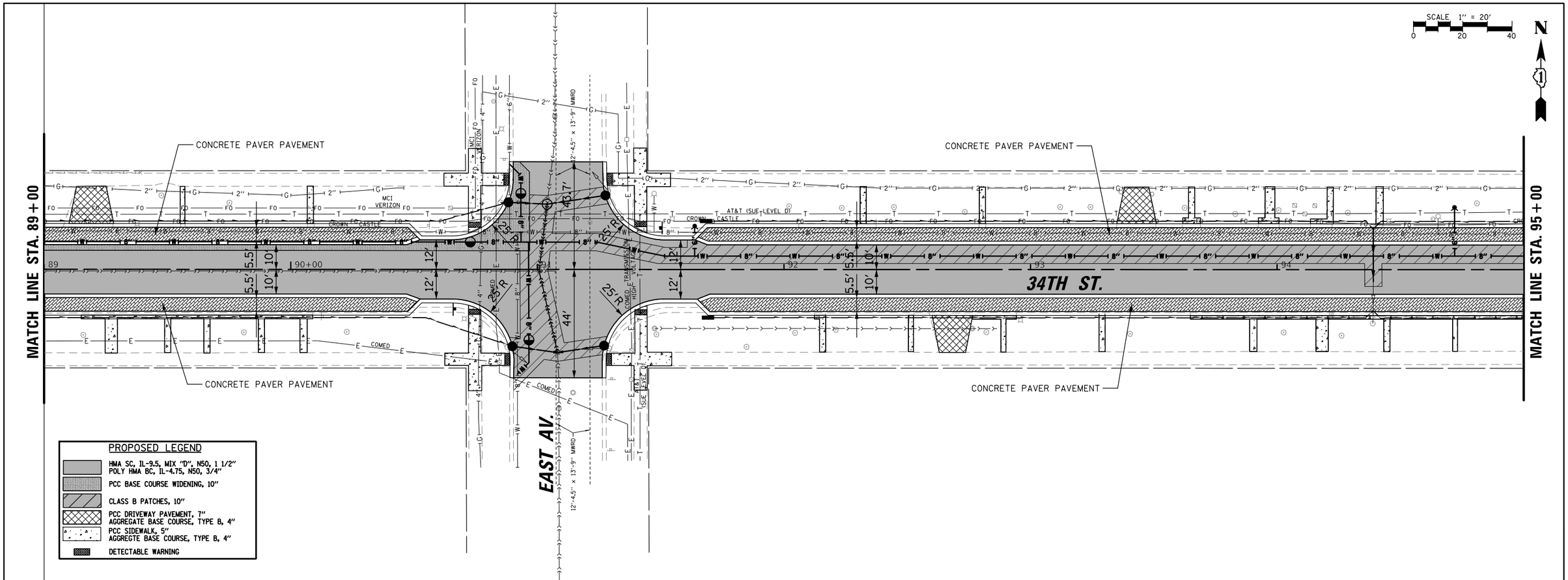

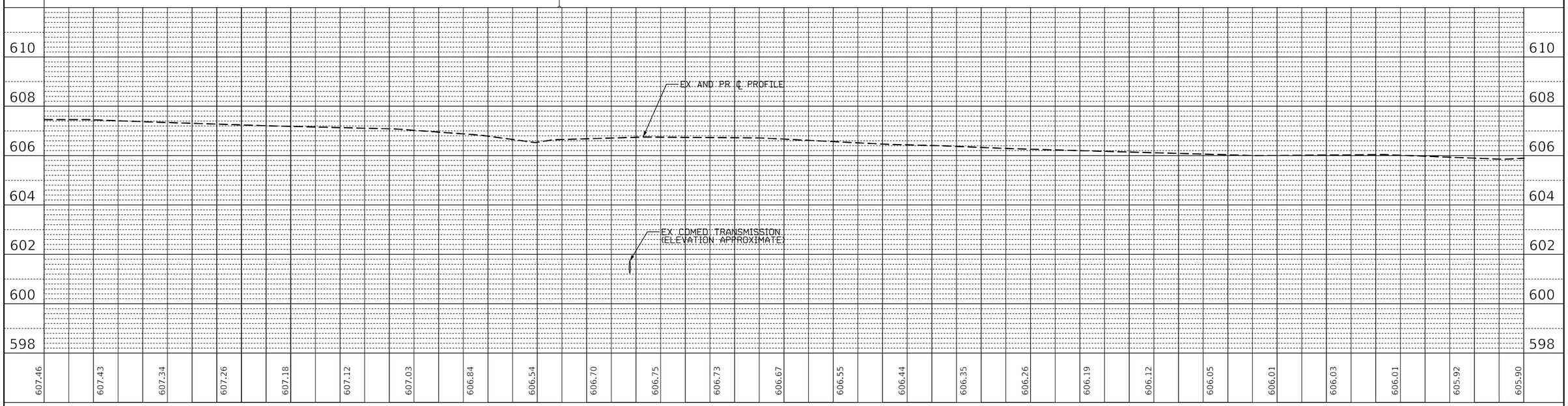

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RT. OF WAY CHECKED			
CADD FILE NAME			
NOTE BOOK NO.			

PROFILE		BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
BKM. NOTED			
STRUCTURE NOTATIONS CHKD			
NOTE BOOK NO.			

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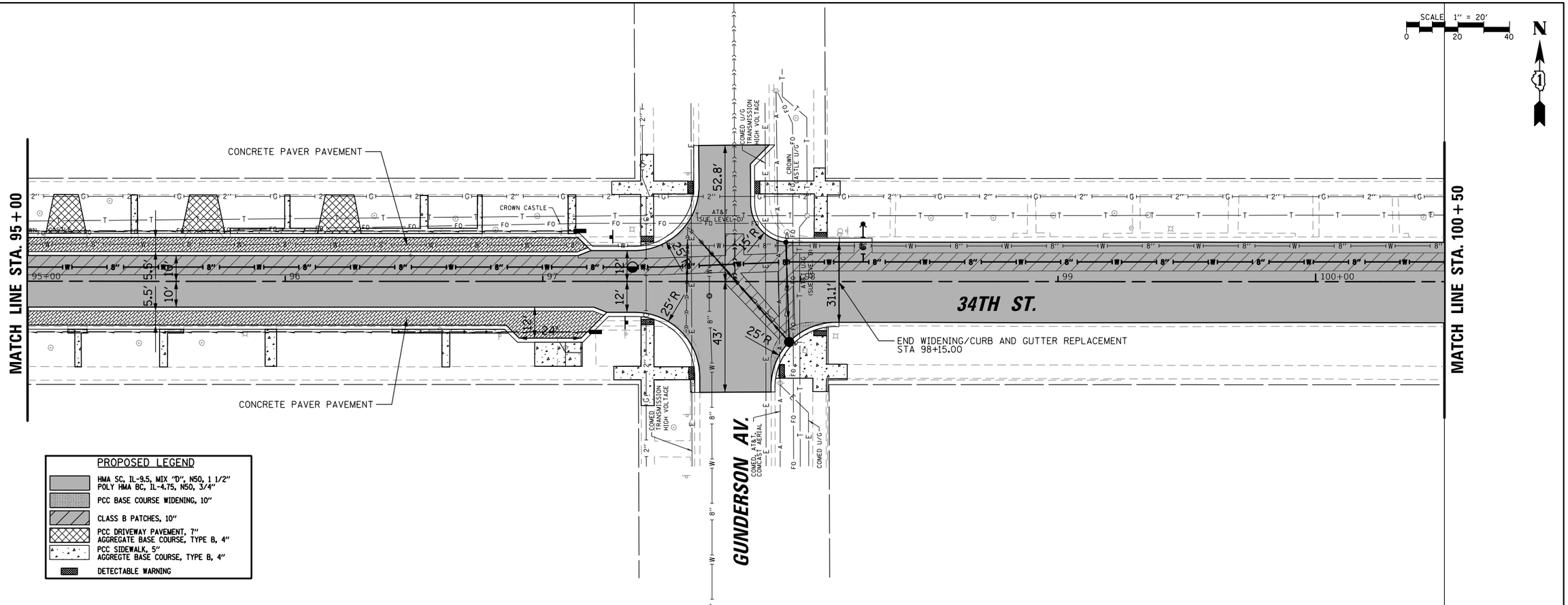
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
ROADWAY PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	33
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		



PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

FILE NAME = N:\BERWYN\220369.02\Civil\RPP9_220369-02.SHT	USER NAME = mthomas	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
ROADWAY PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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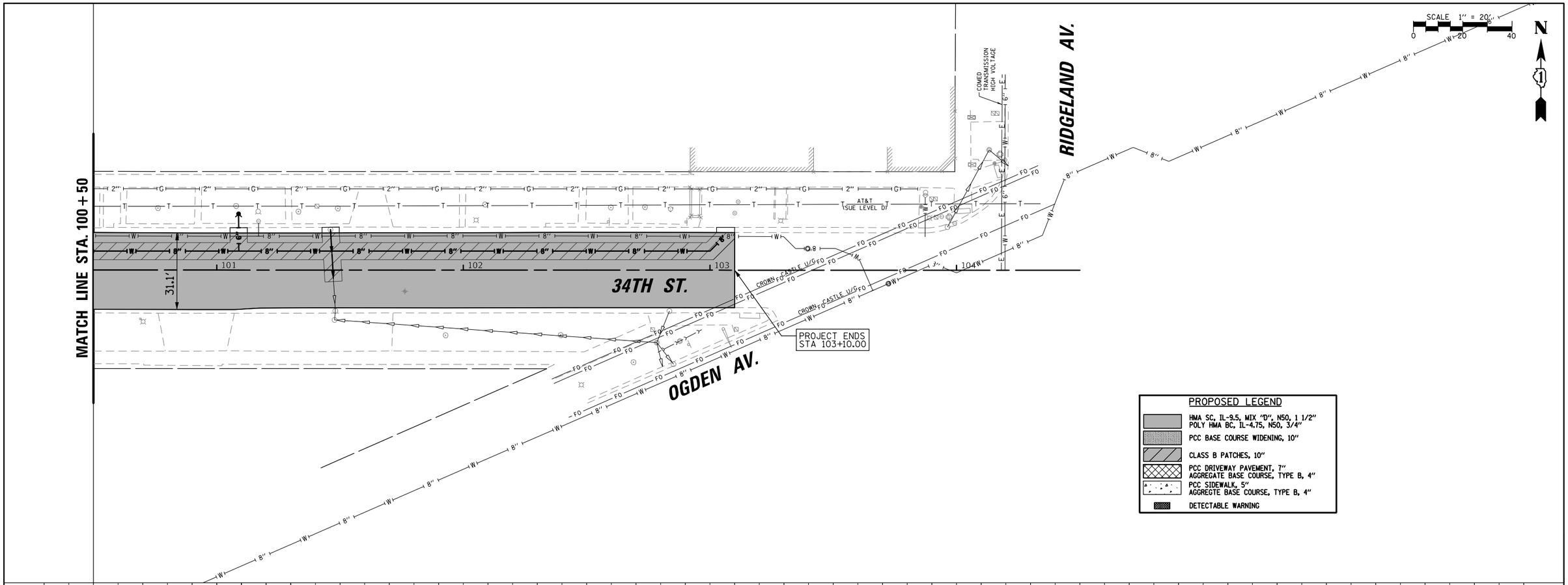
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		



PROPOSED LEGEND

- HMA SC, IL-9.5, MIX "D", N50, 1 1/2"
  POLY HMA BC, IL-4.75, N50, 3/4"
- PCC BASE COURSE WIDENING, 10"
- CLASS B PATCHES, 10"
- PCC DRIVEWAY PAVEMENT, 7"
  AGGREGATE BASE COURSE, TYPE B, 4"
- PCC SIDEWALK, 5"
  AGGREGTE BASE COURSE, TYPE B, 4"
- DETECTABLE WARNING

PLAN	BY	DATE
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PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
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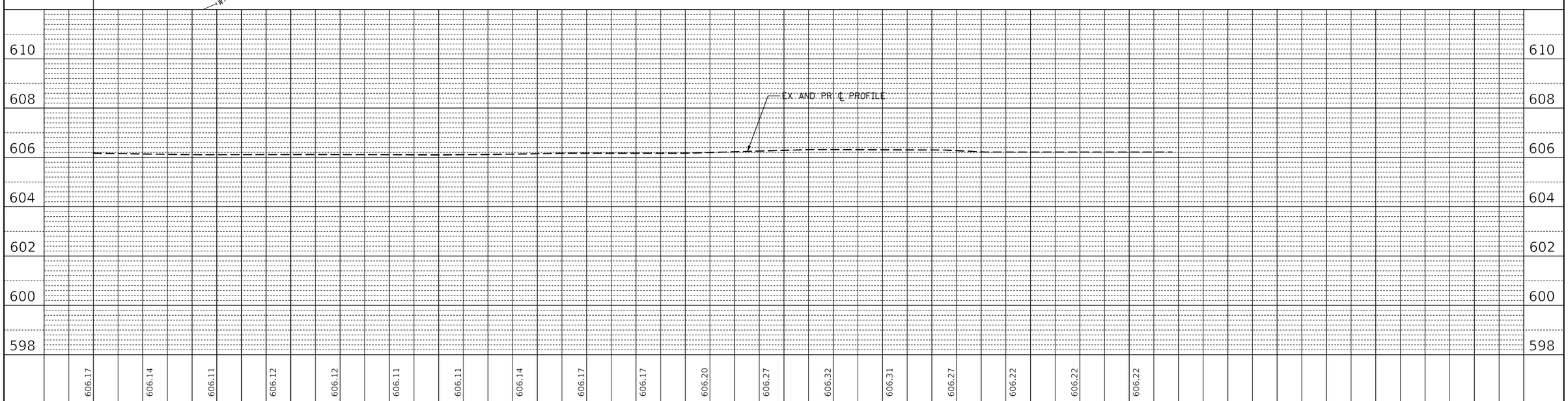

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
ROADWAY PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	35

CONTRACT NO. 61M09

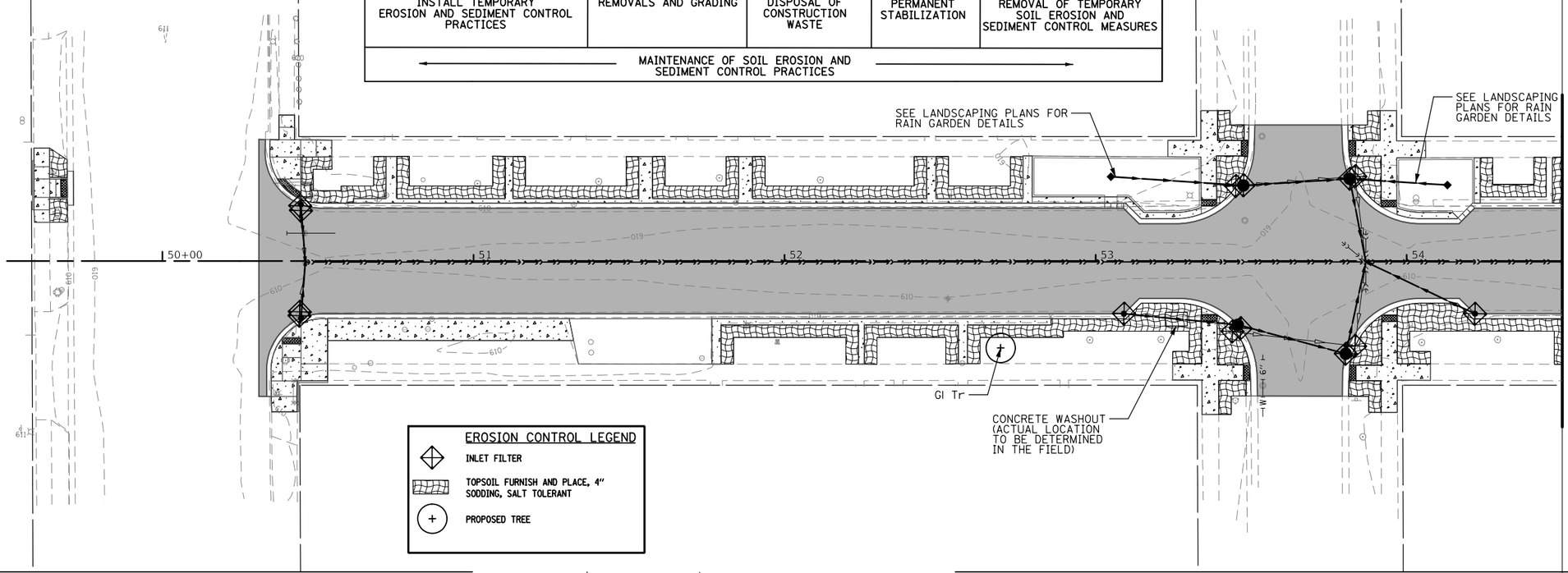
ILLINOIS FED. AID PROJECT

SCHEDULE OF CONSTRUCTION ACTIVITIES

TASK 1	TASK 2	TASK 3	TASK 4	TASK 5
INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES	REMOVALS AND GRADING	DISPOSAL OF CONSTRUCTION WASTE	PERMANENT STABILIZATION	REMOVAL OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES
← MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL PRACTICES →				

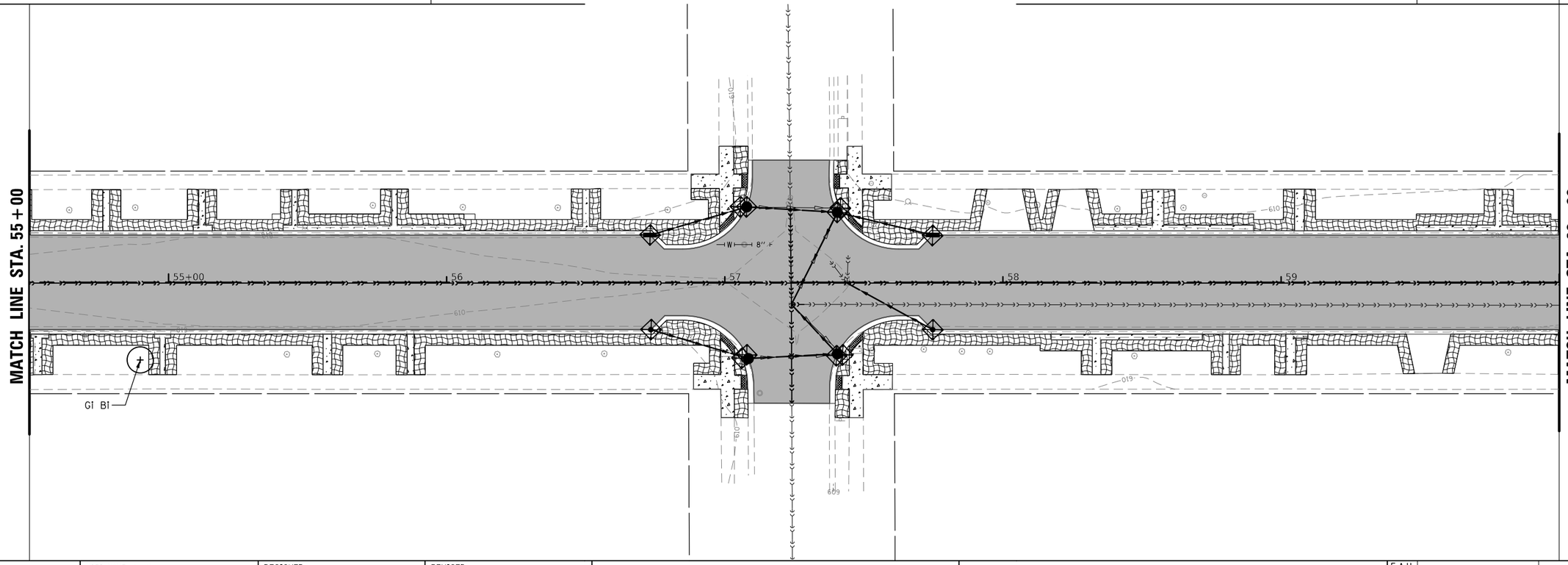
SCALE 1" = 20'
0 20 40

N



EROSION CONTROL LEGEND

- INLET FILTER
- TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT
- PROPOSED TREE



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

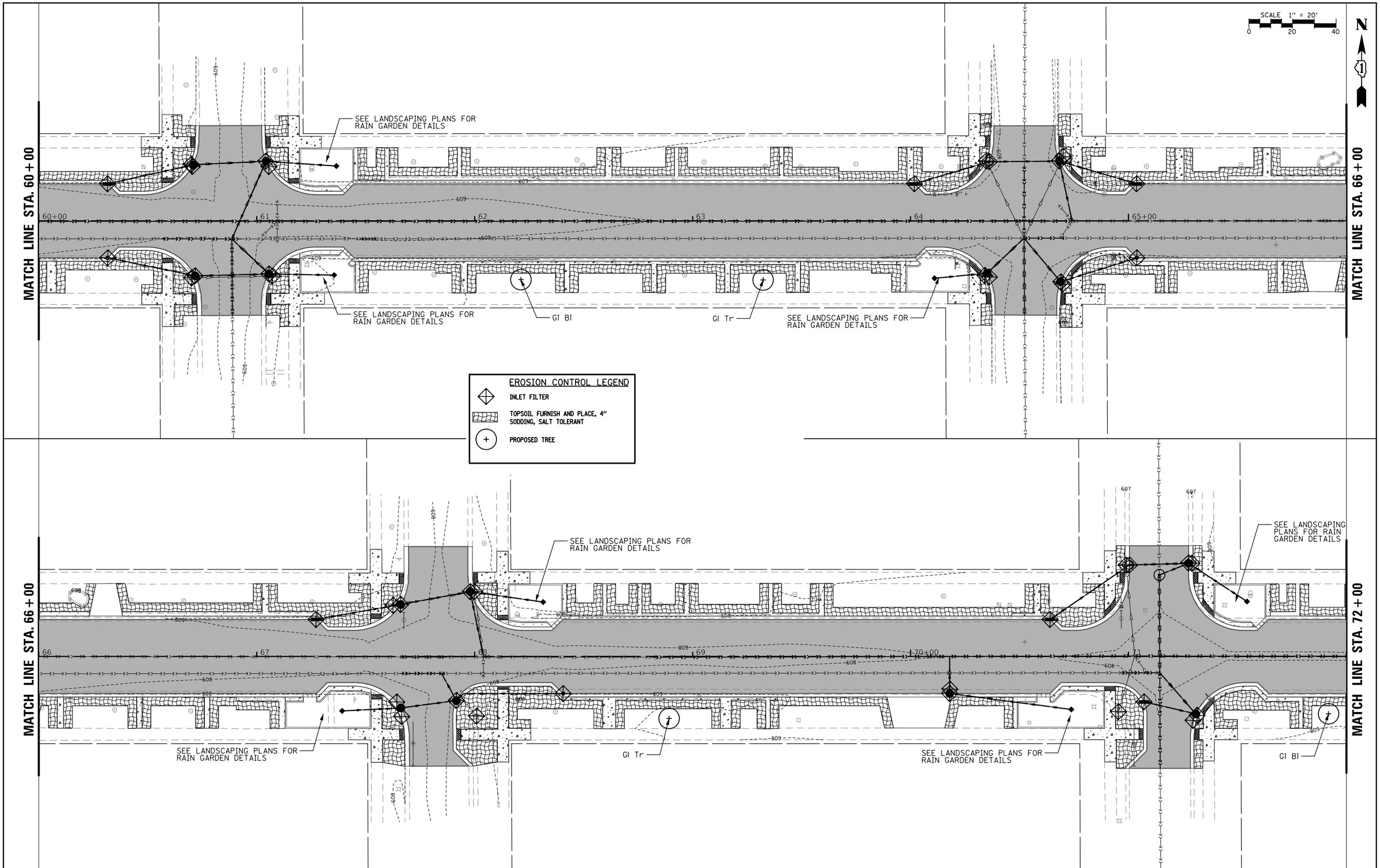
34TH STREET REHABILITATION
EROSION CONTROL AND SEDIMENT PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	36

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT



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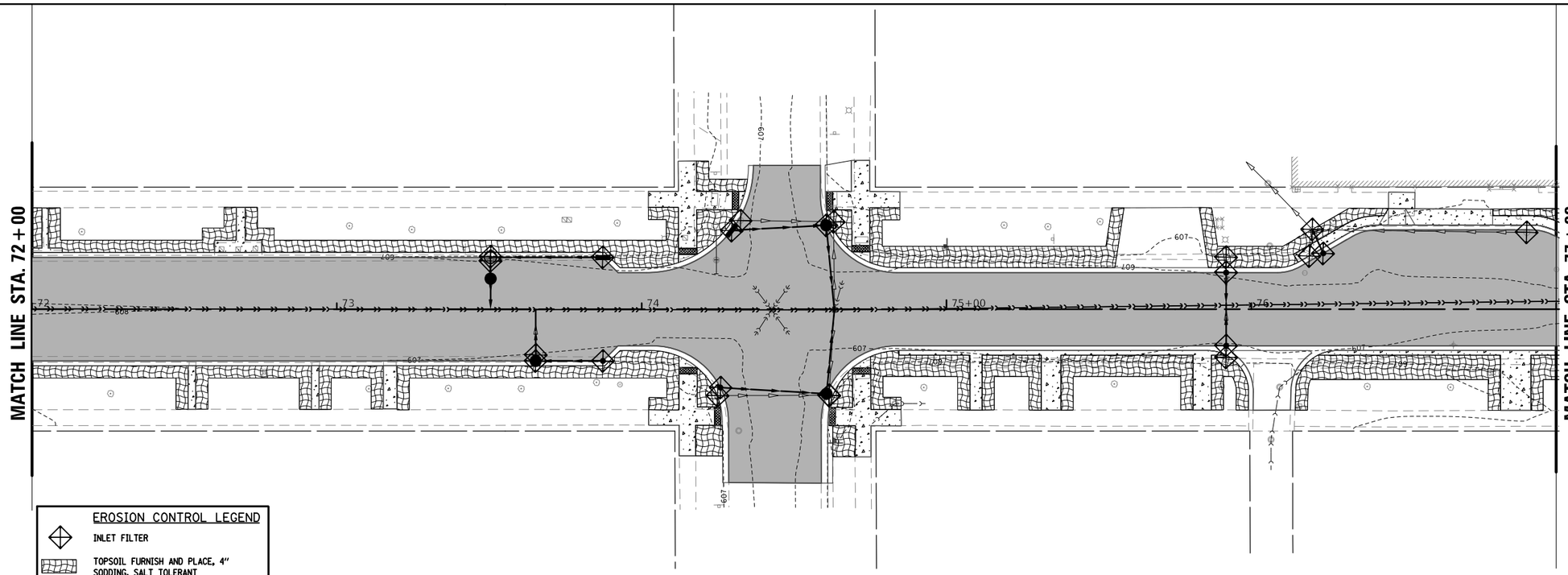
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
EROSION CONTROL AND SEDIMENT PLAN

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	37
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		

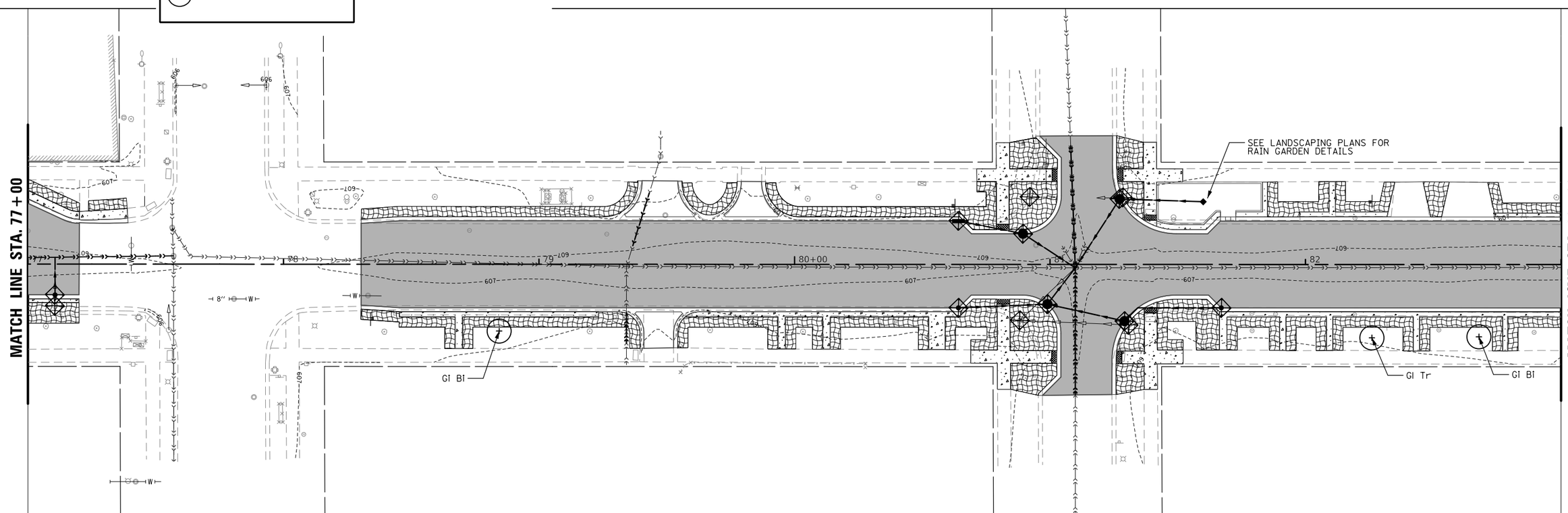


EROSION CONTROL LEGEND

INLET FILTER

TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT

PROPOSED TREE



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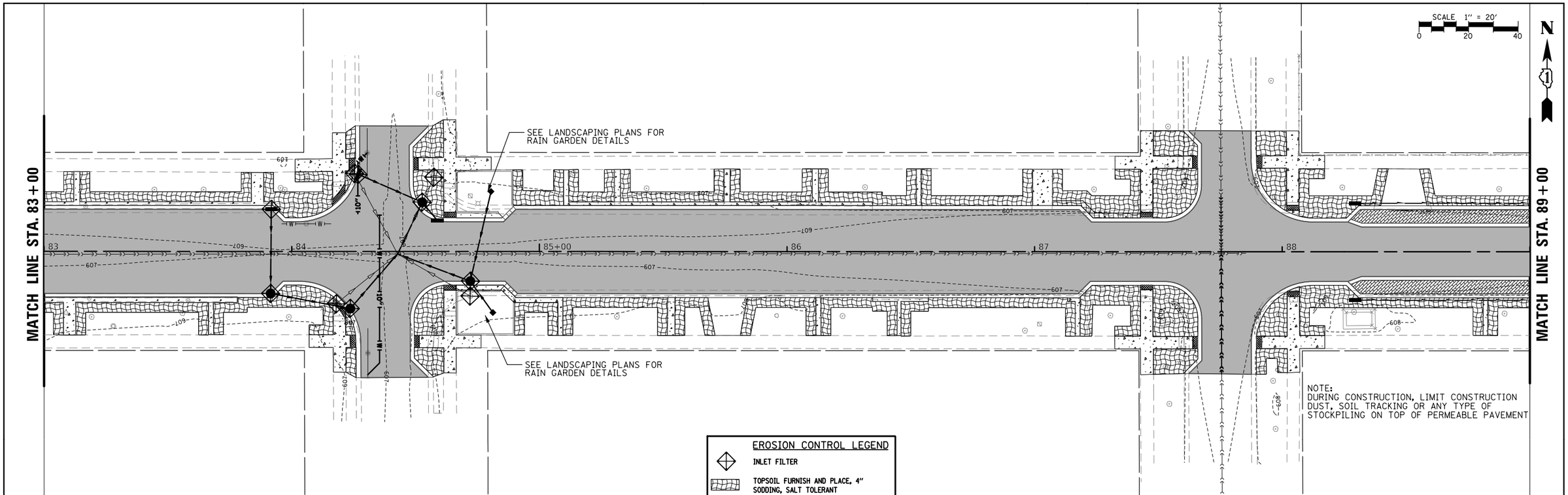
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
EROSION CONTROL AND SEDIMENT PLAN

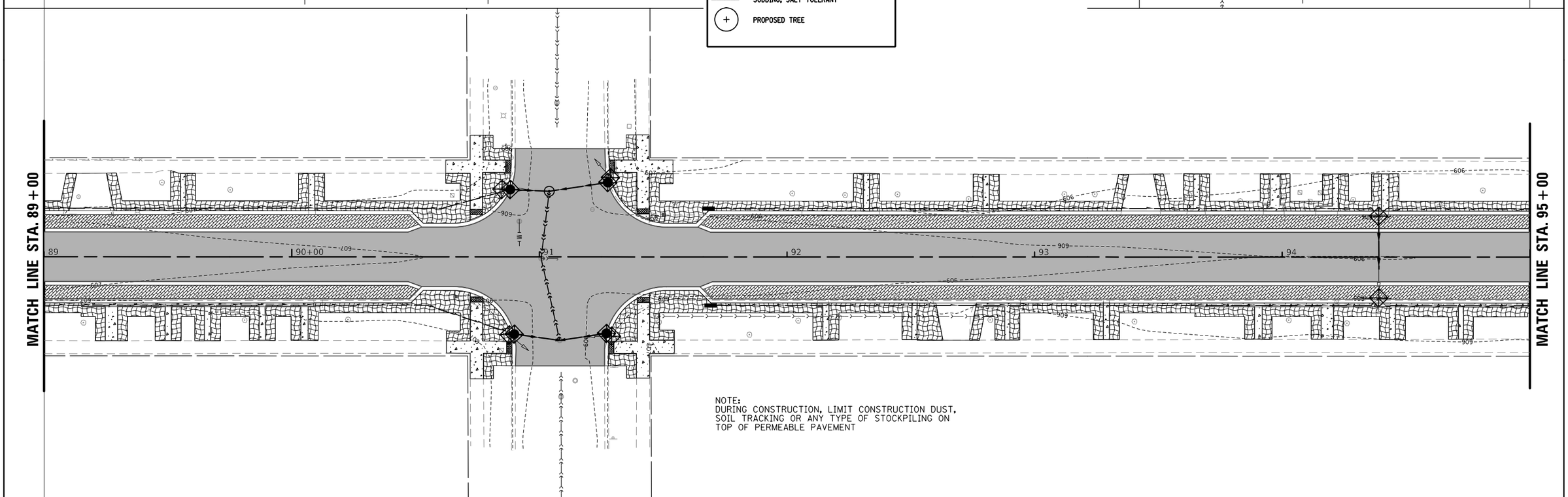
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	38
		CONTRACT NO. 61M09		
	ILLINOIS FED. AID PROJECT			



EROSION CONTROL LEGEND

- INLET FILTER
- TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT
- PROPOSED TREE



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

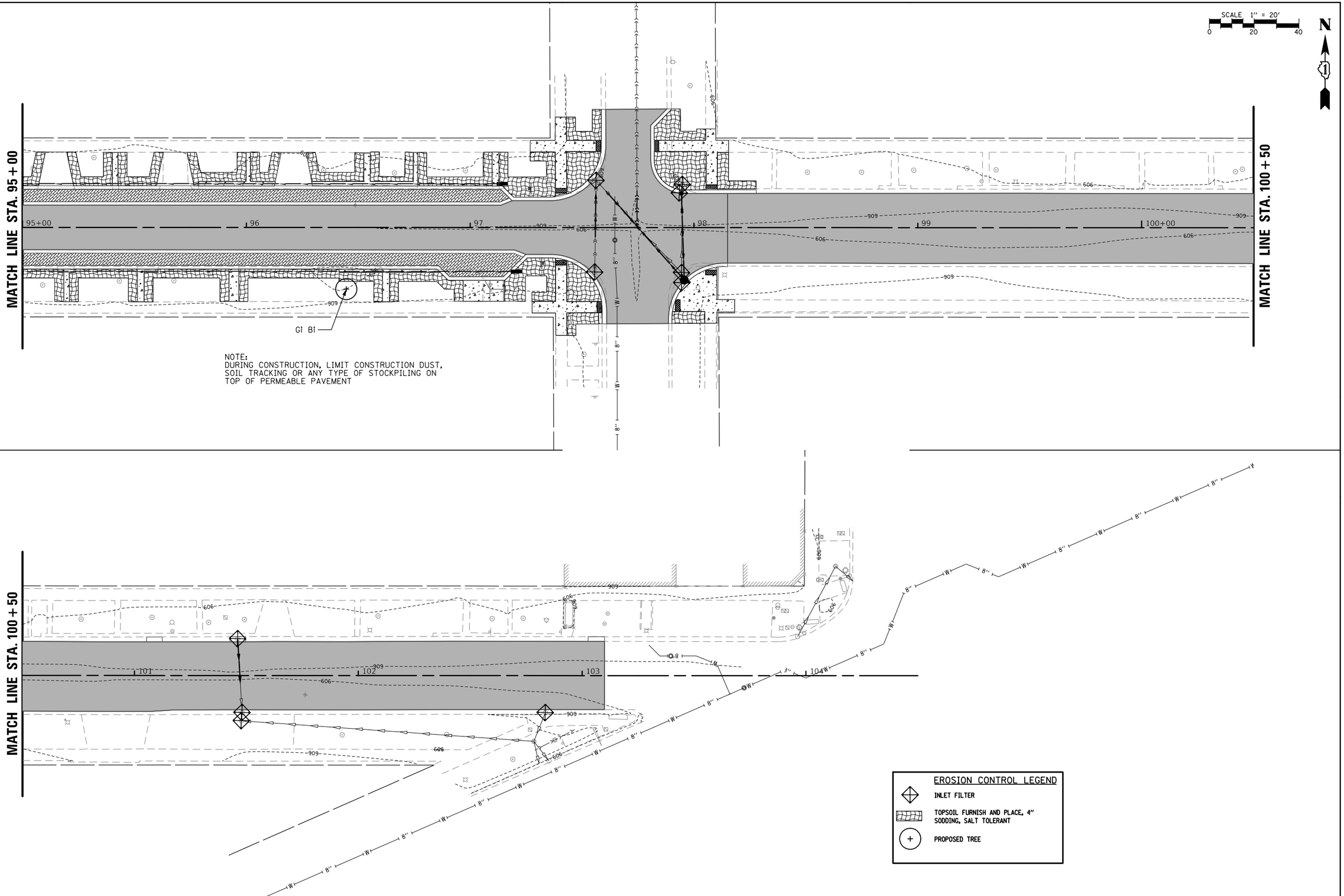
34TH STREET REHABILITATION
EROSION CONTROL AND SEDIMENT PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	39

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

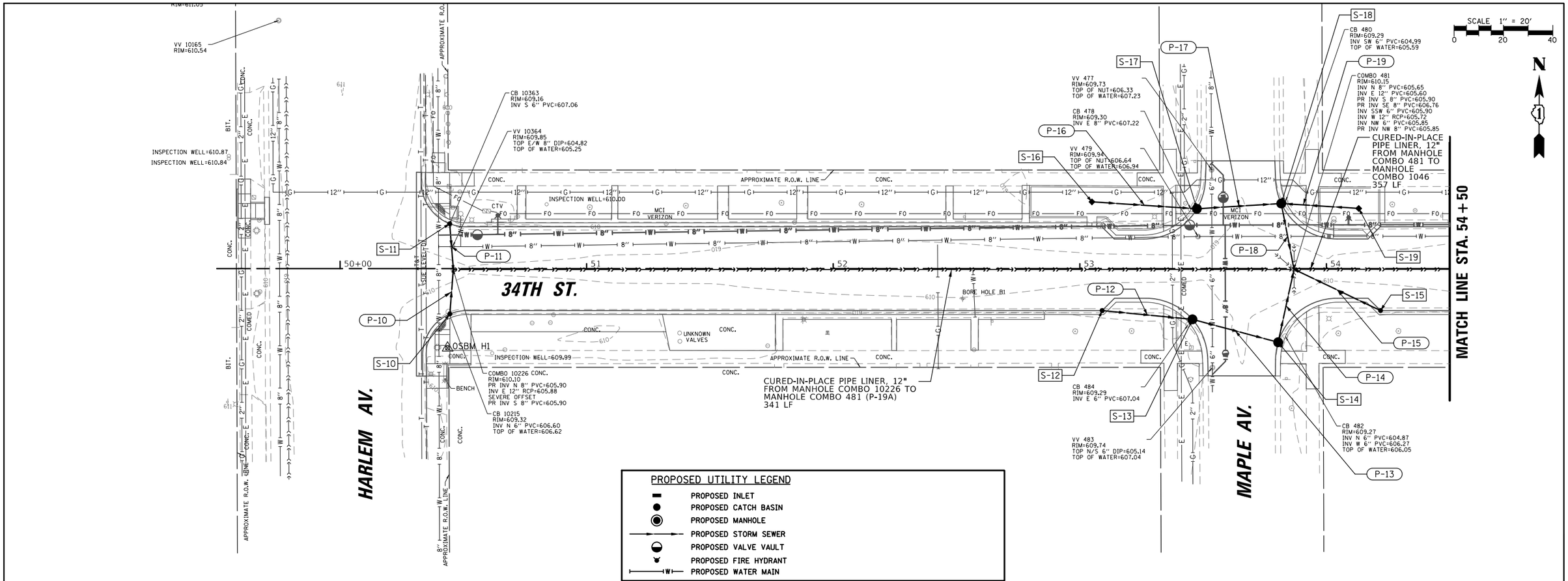
34TH STREET REHABILITATION
EROSION CONTROL AND SEDIMENT PLAN

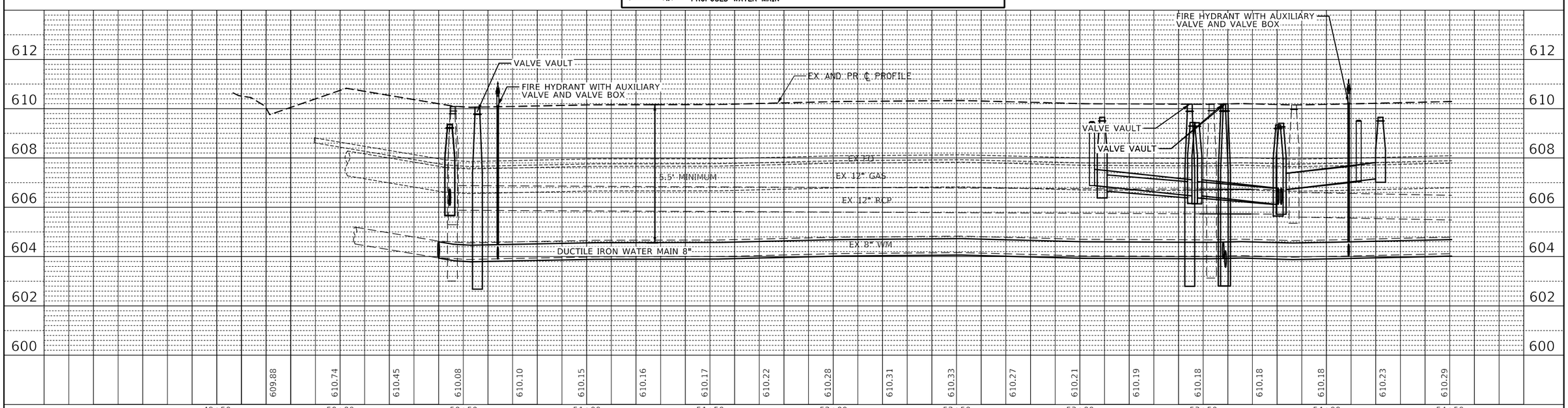
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	40

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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BY
DATE

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GRADES CHECKED
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STRUCTURE NOTAT'NS CH'KD
NOTE BOOK
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DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

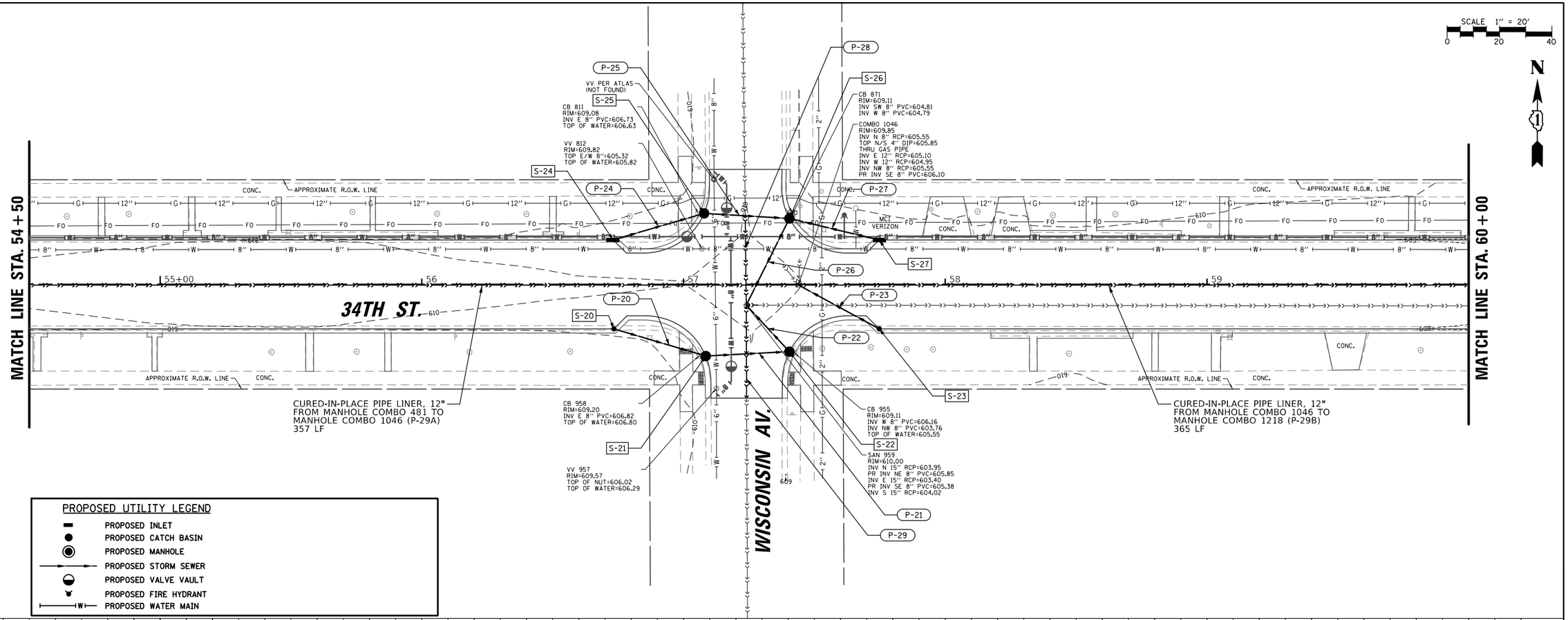
34TH STREET REHABILITATION
SEWER PLAN AND PROFILE

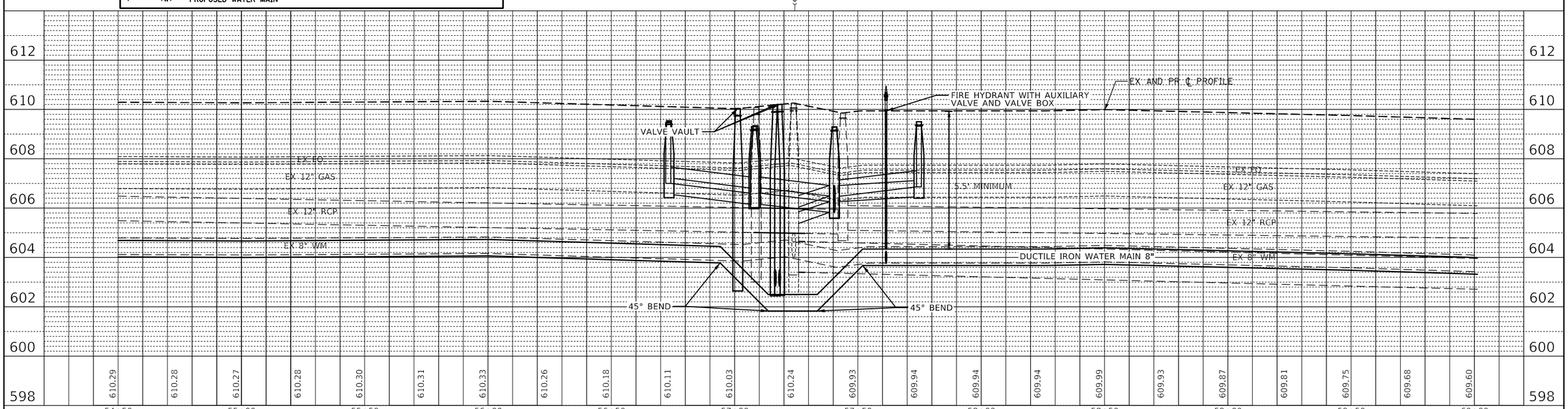
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	41

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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GRADES CHECKED
B.M. NOTED
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NOTE BOOK
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

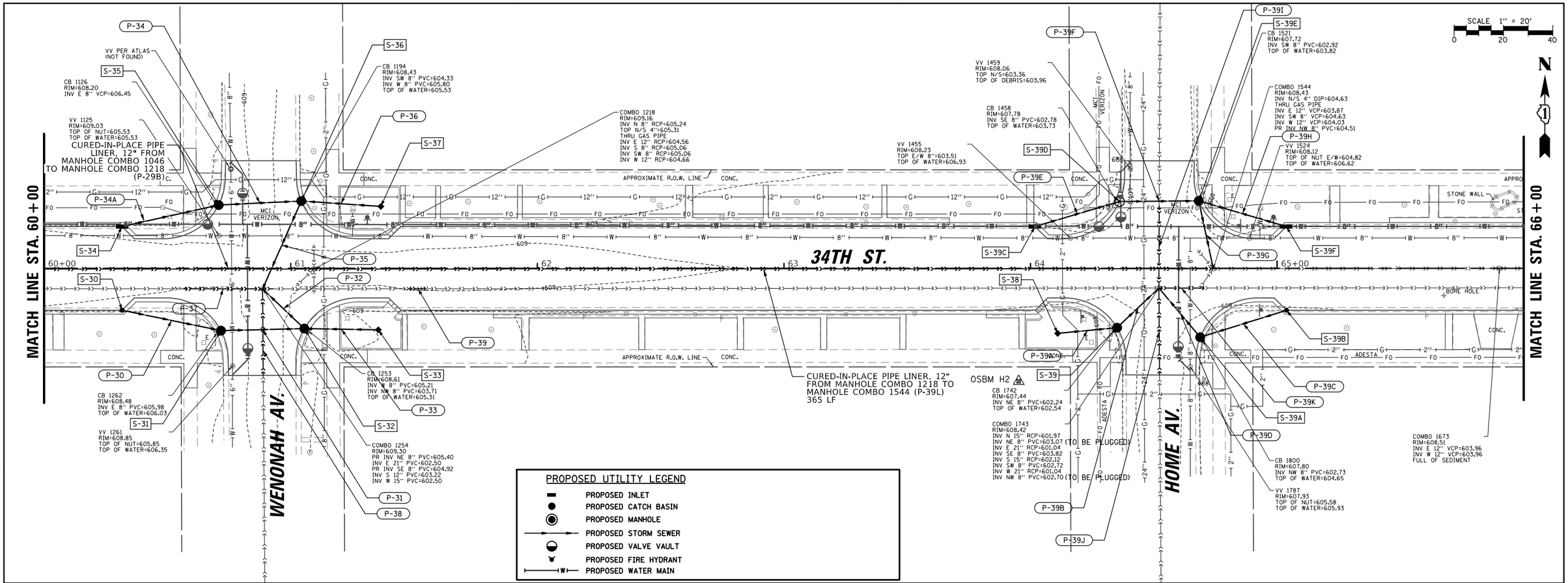
34TH STREET REHABILITATION
SEWER PLAN AND PROFILE

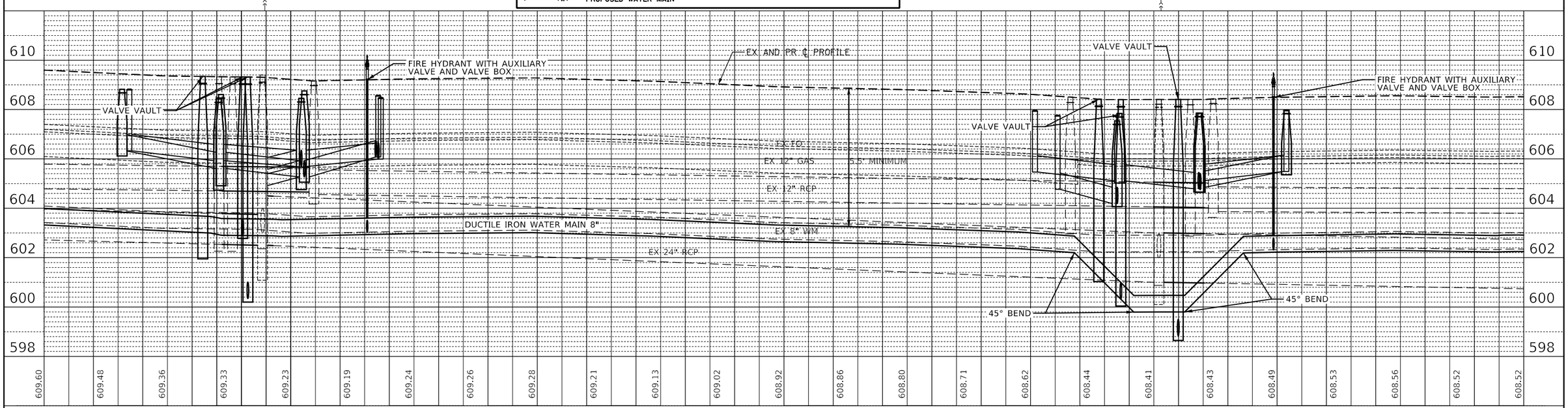
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	42

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

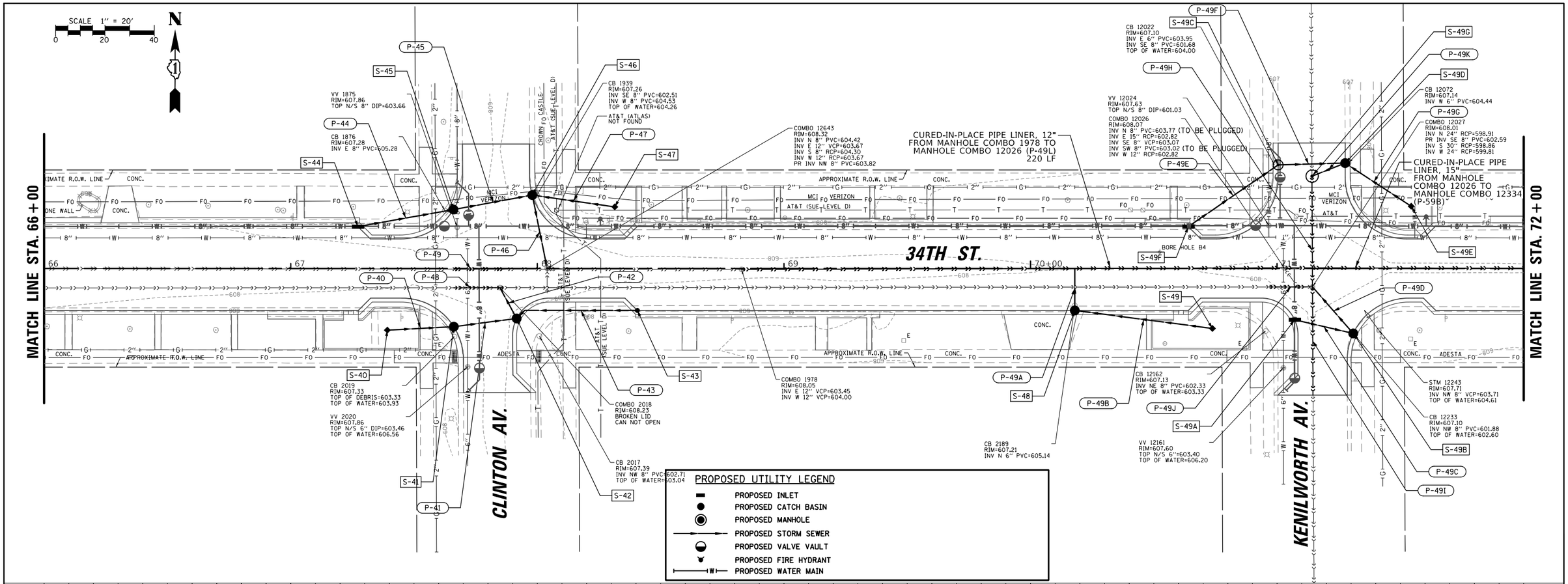
34TH STREET REHABILITATION
SEWER PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	43

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT



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NOTE BOOK NO.		

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GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

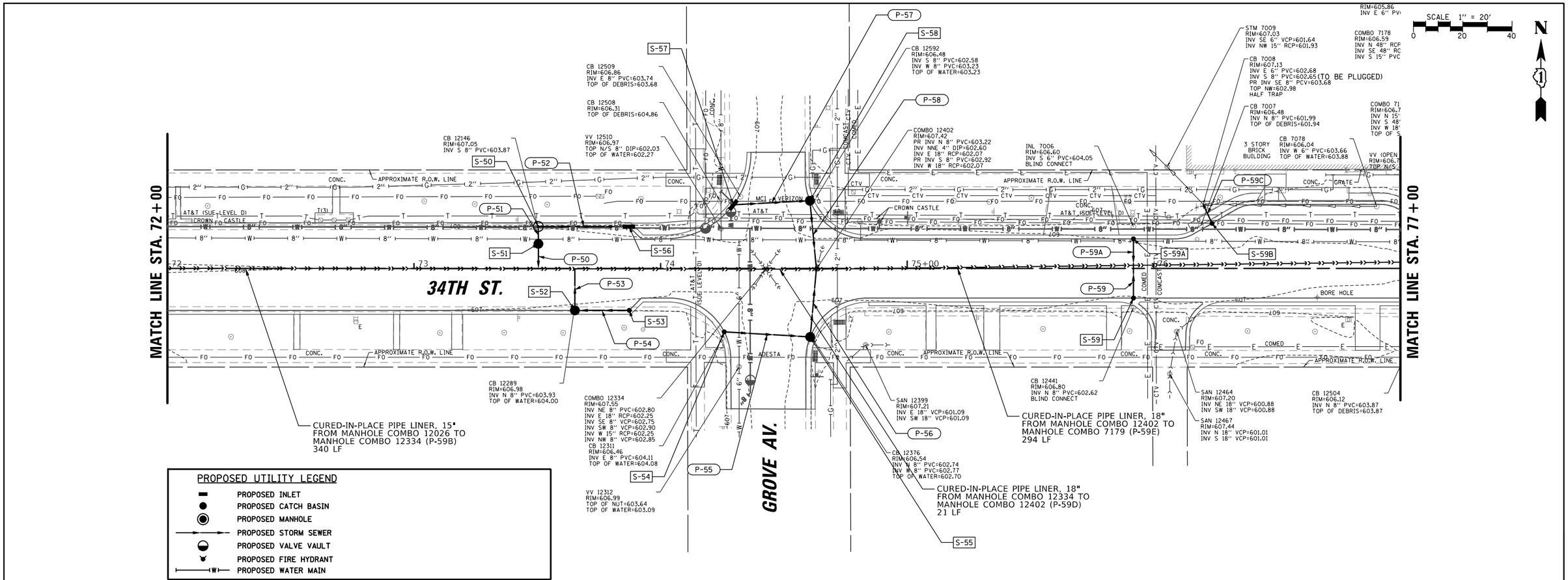
34TH STREET REHABILITATION
SEWER PLAN AND PROFILE

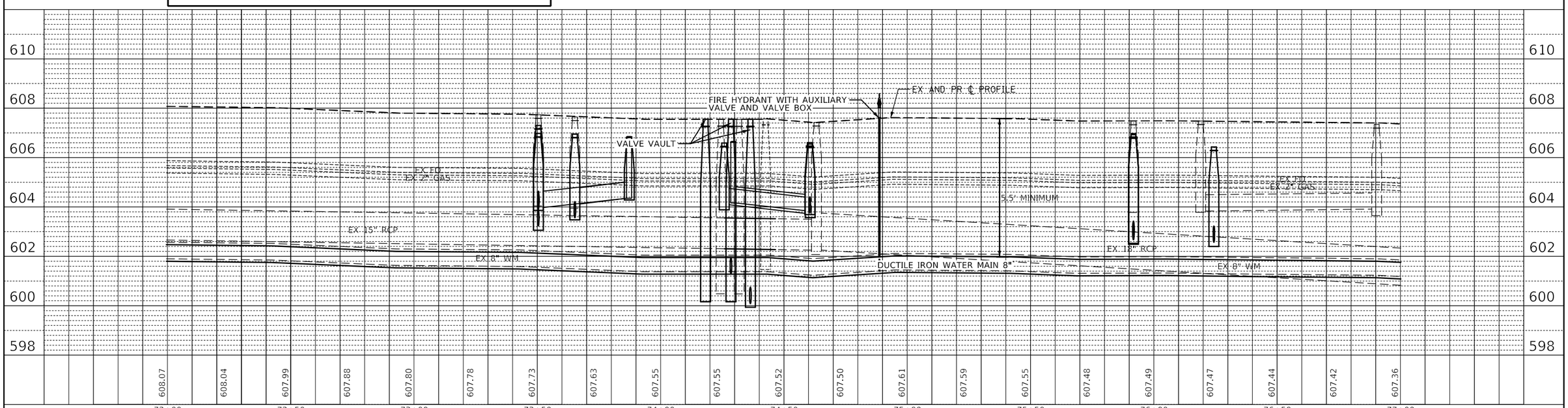
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	44

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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STRUCTURE NOTATNS CHKD
NOTE BOOK NO.
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DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

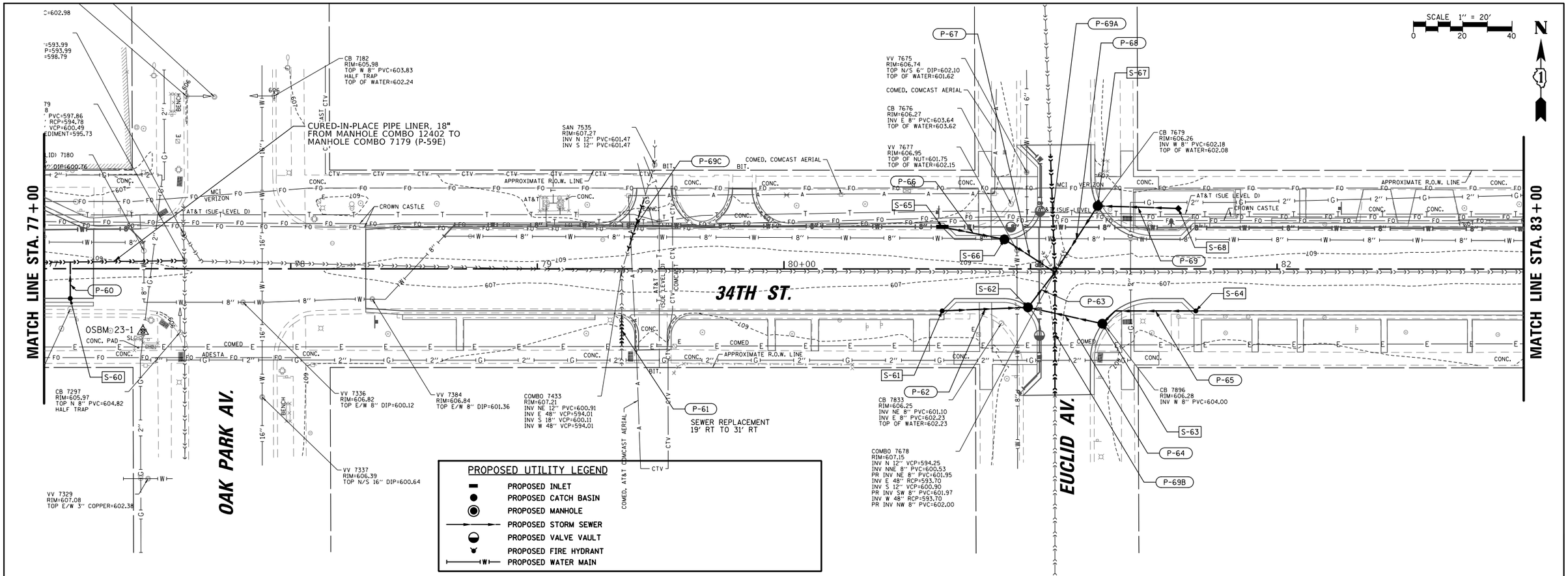
34TH STREET REHABILITATION
SEWER PLAN AND PROFILE

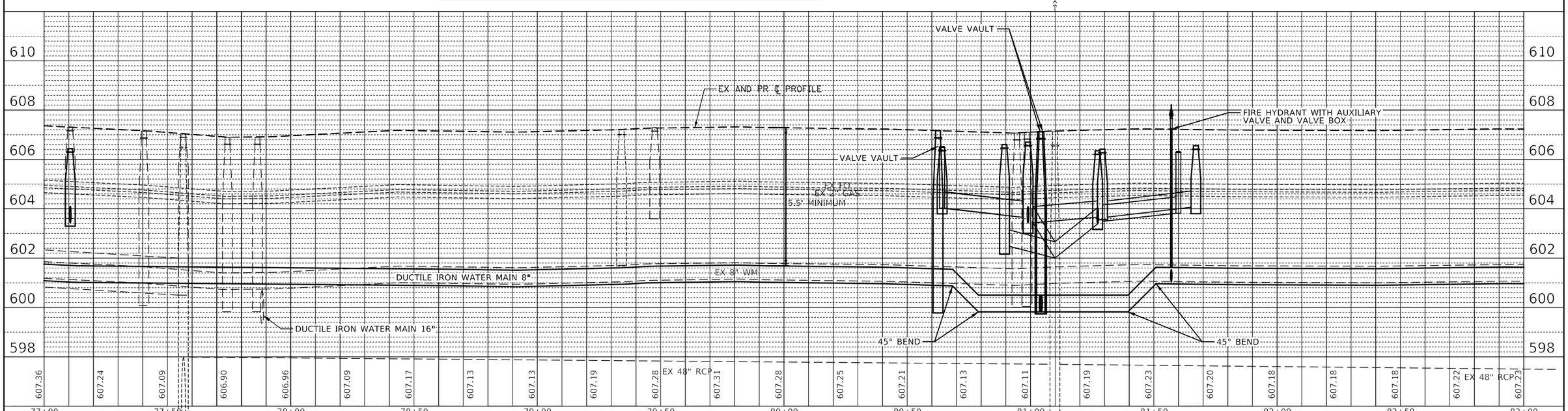
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	45

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

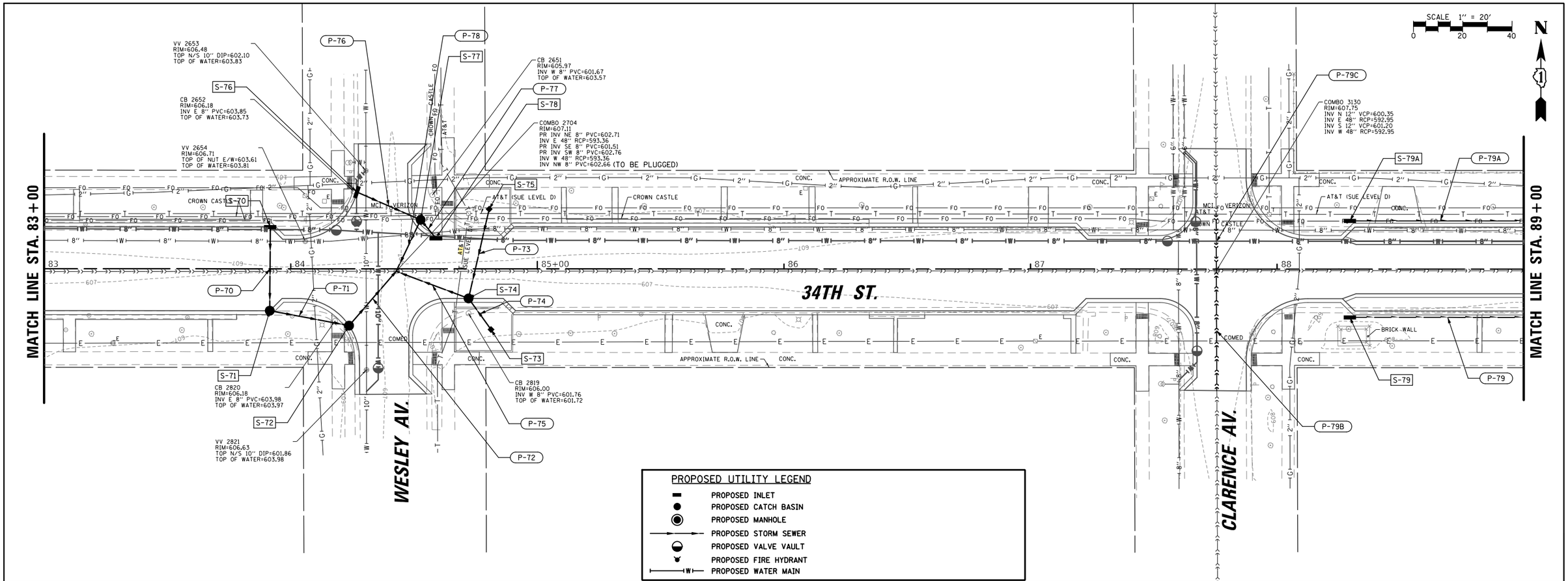
34TH STREET REHABILITATION
SEWER PLAN AND PROFILE

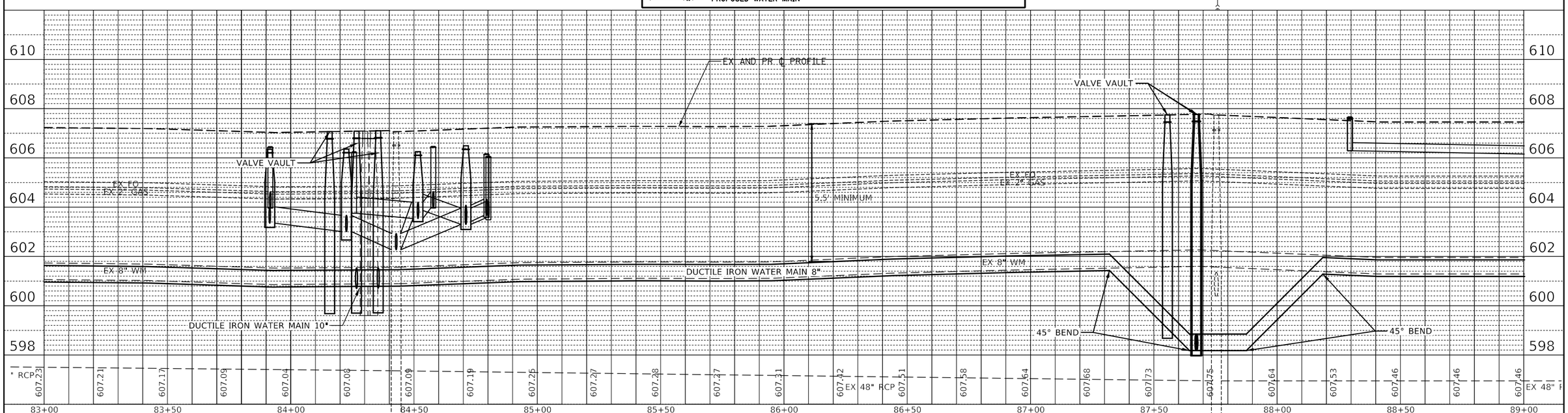
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	46

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

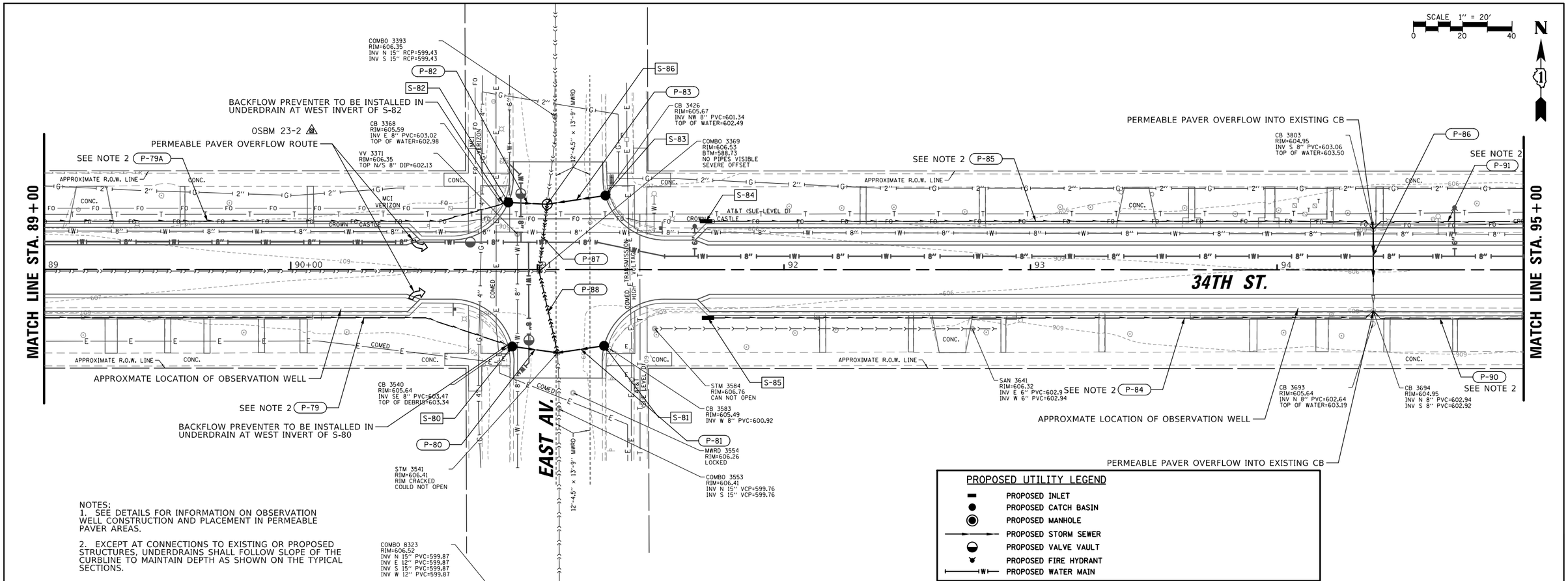
34TH STREET REHABILITATION
SEWER PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	47
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		

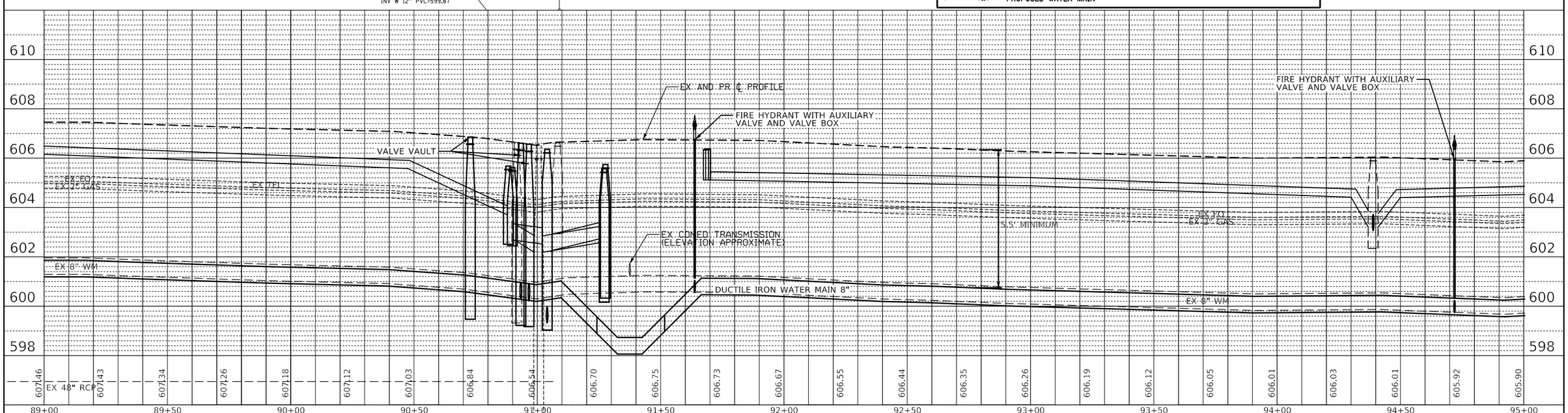
PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE



NOTES:
1. SEE DETAILS FOR INFORMATION ON OBSERVATION WELL CONSTRUCTION AND PLACEMENT IN PERMEABLE PAVER AREAS.

2. EXCEPT AT CONNECTIONS TO EXISTING OR PROPOSED STRUCTURES, UNDERDRAINS SHALL FOLLOW SLOPE OF THE CURBLINE TO MAINTAIN DEPTH AS SHOWN ON THE TYPICAL SECTIONS.



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		DRAWN -	REVISED -
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Default	PLOT DATE = 11/24/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
SEWER PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

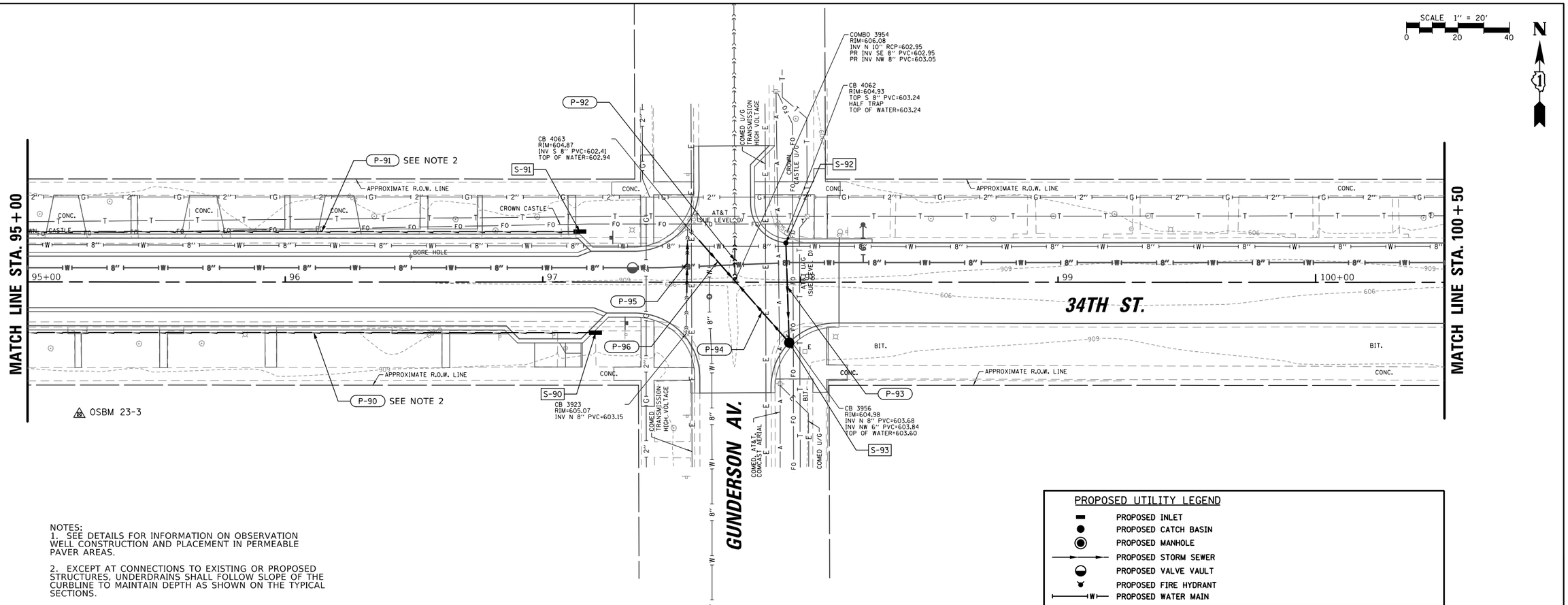
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	48

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE

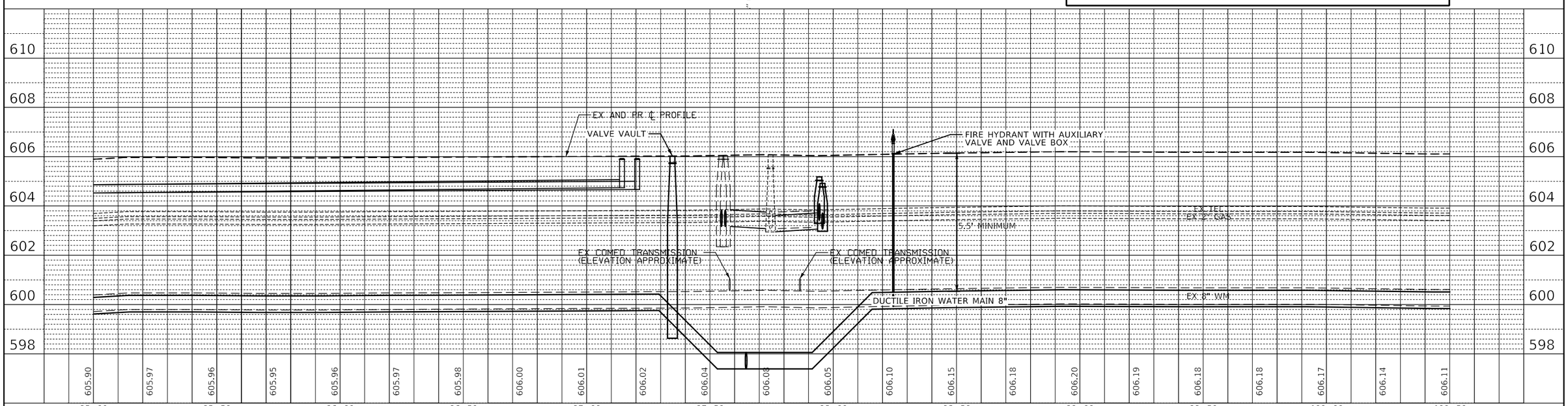


NOTES:
1. SEE DETAILS FOR INFORMATION ON OBSERVATION WELL CONSTRUCTION AND PLACEMENT IN PERMEABLE PAVER AREAS.

2. EXCEPT AT CONNECTIONS TO EXISTING OR PROPOSED STRUCTURES, UNDERDRAINS SHALL FOLLOW SLOPE OF THE CURBLINE TO MAINTAIN DEPTH AS SHOWN ON THE TYPICAL SECTIONS.

PROPOSED UTILITY LEGEND

- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED STORM SEWER
- PROPOSED VALVE VAULT
- PROPOSED FIRE HYDRANT
- PROPOSED WATER MAIN



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTAT'NS CH'KD / NOTE BOOK NO. / BY / DATE

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Default	PLOT SCALE = 40'	CHECKED -	REVISED -
	PLOT DATE = 11/24/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

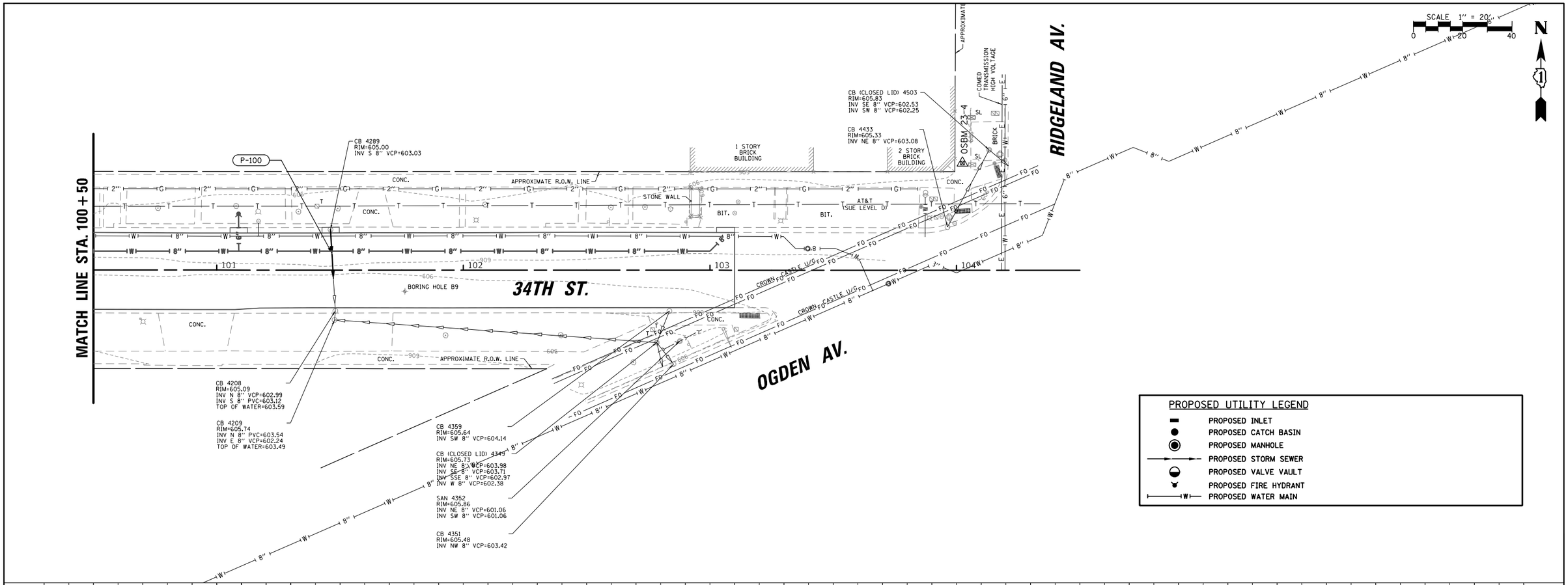
34TH STREET REHABILITATION
SEWER PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	49

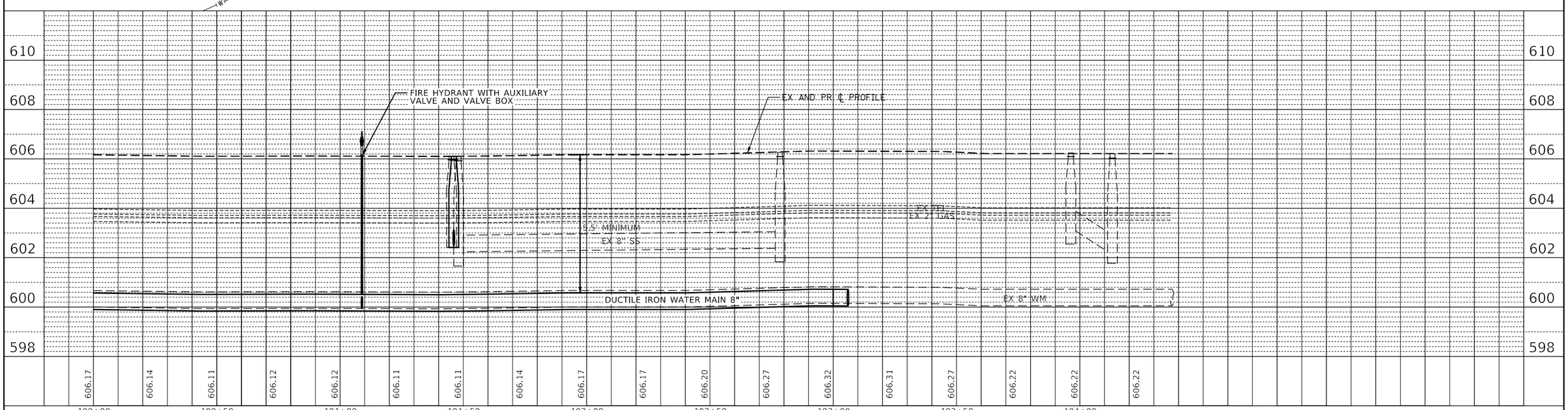
CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT



PROPOSED UTILITY LEGEND

- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED STORM SEWER
- PROPOSED VALVE VAULT
- PROPOSED FIRE HYDRANT
- PROPOSED WATER MAIN



PLAN	BY	DATE
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PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BM. NOTED		
STRUCTURE NOTAT'NS CHK'D		
NOTE BOOK NO.		

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Default	PLOT SCALE = 40'	CHECKED -	REVISED -
	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

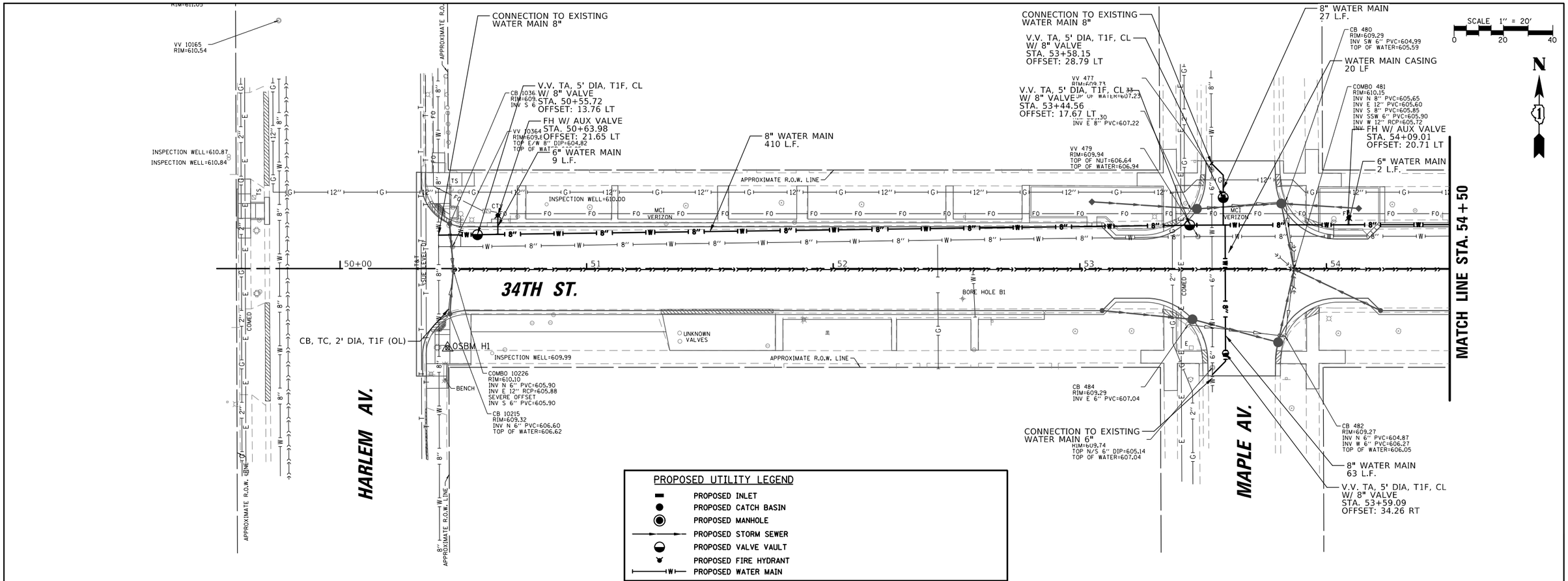
34TH STREET REHABILITATION
SEWER PLAN AND PROFILE

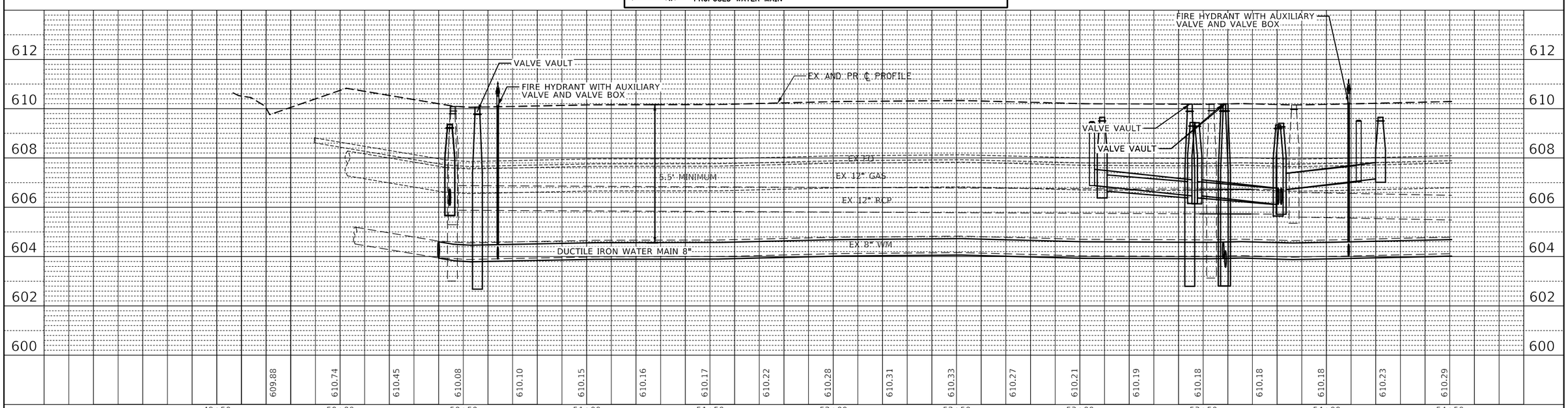
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	50

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTAT'NS CH'KD — NOTE BOOK NO. — BY — DATE

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Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

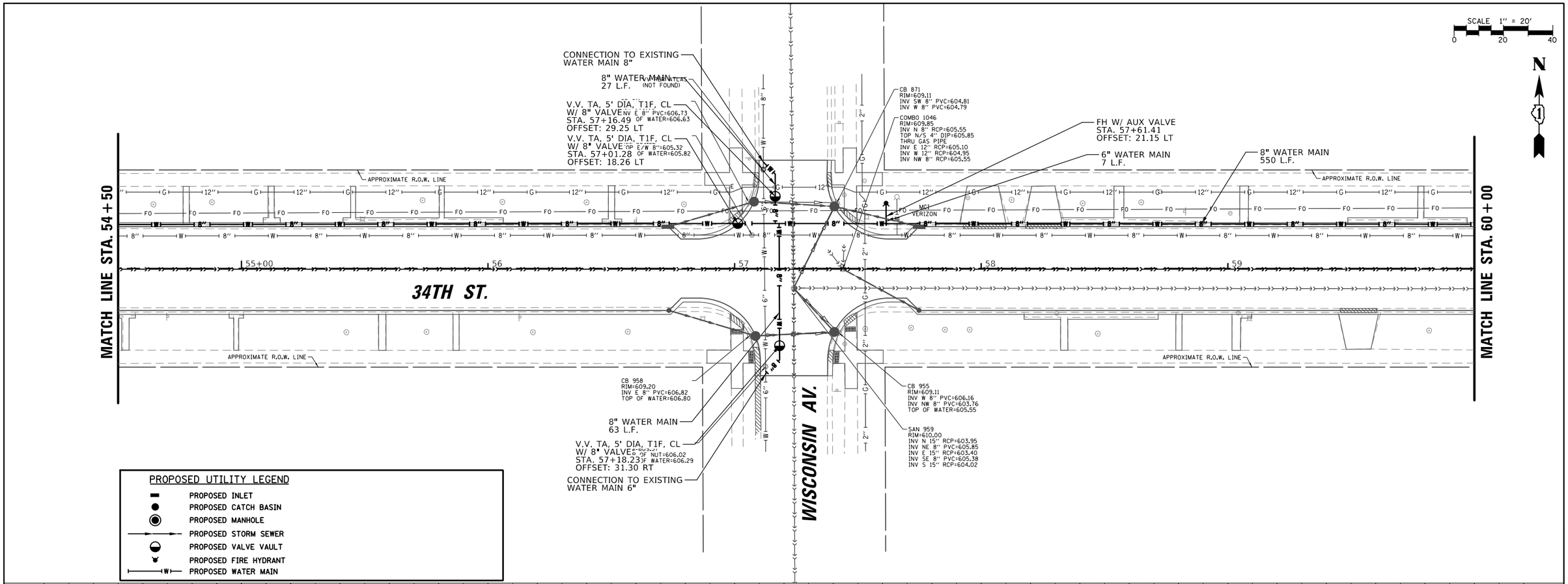
34TH STREET REHABILITATION
WATER MAIN PLAN AND PROFILE

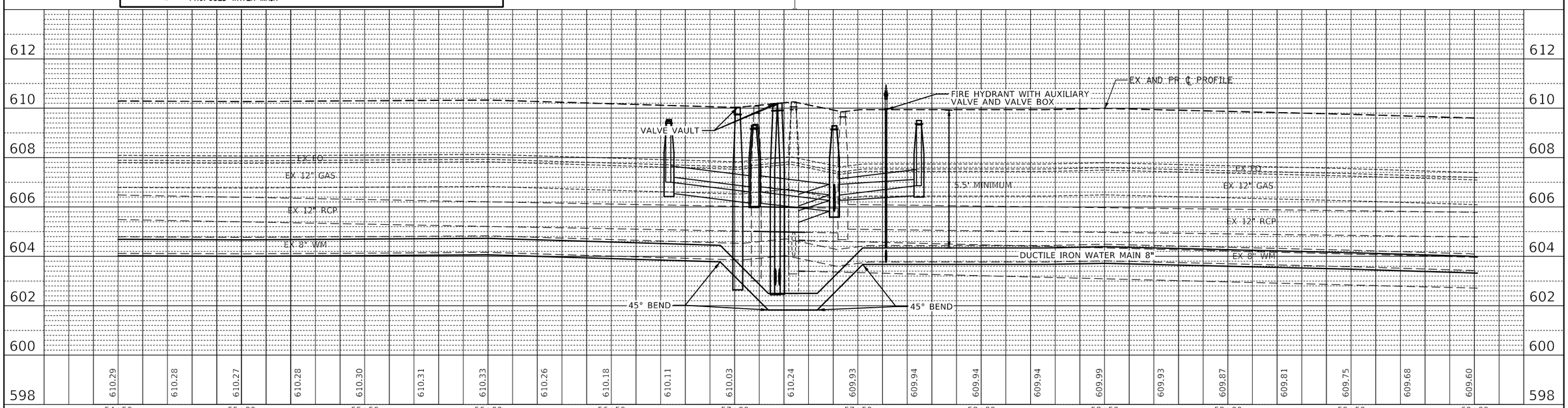
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	51

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE

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	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

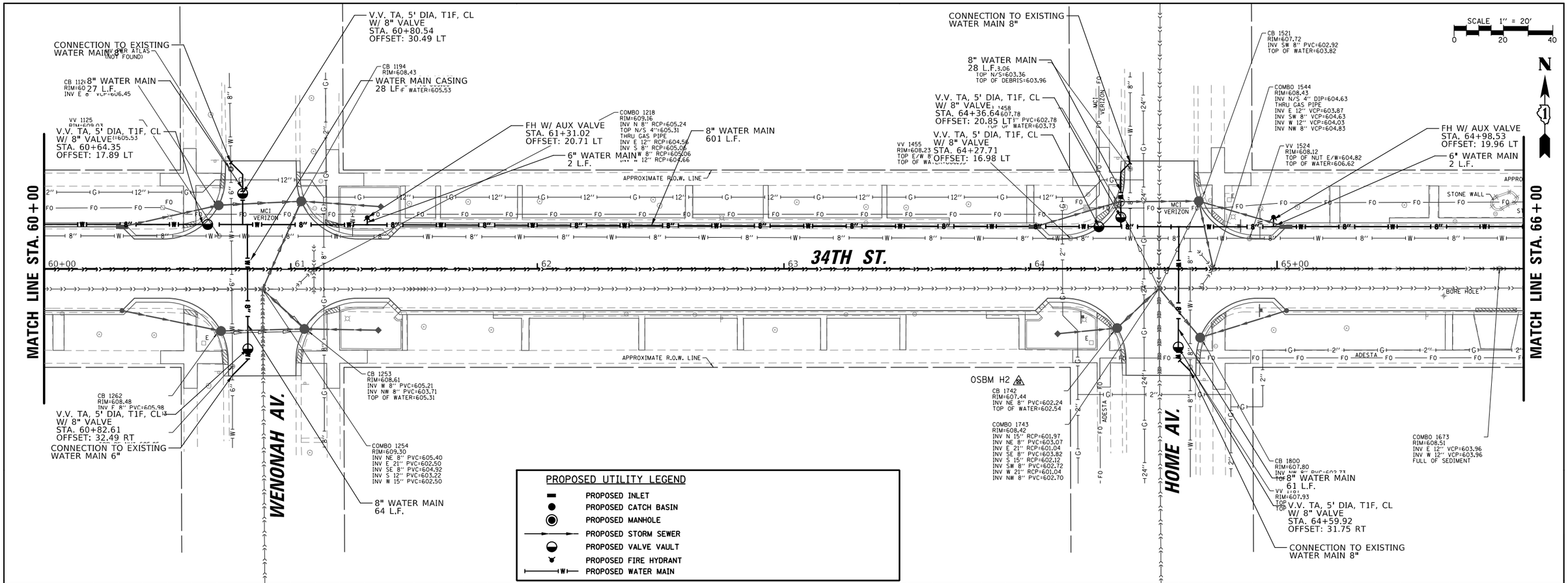
34TH STREET REHABILITATION
WATER MAIN PLAN AND PROFILE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	52

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT



PLAN — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHK'D — BY — DATE

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Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

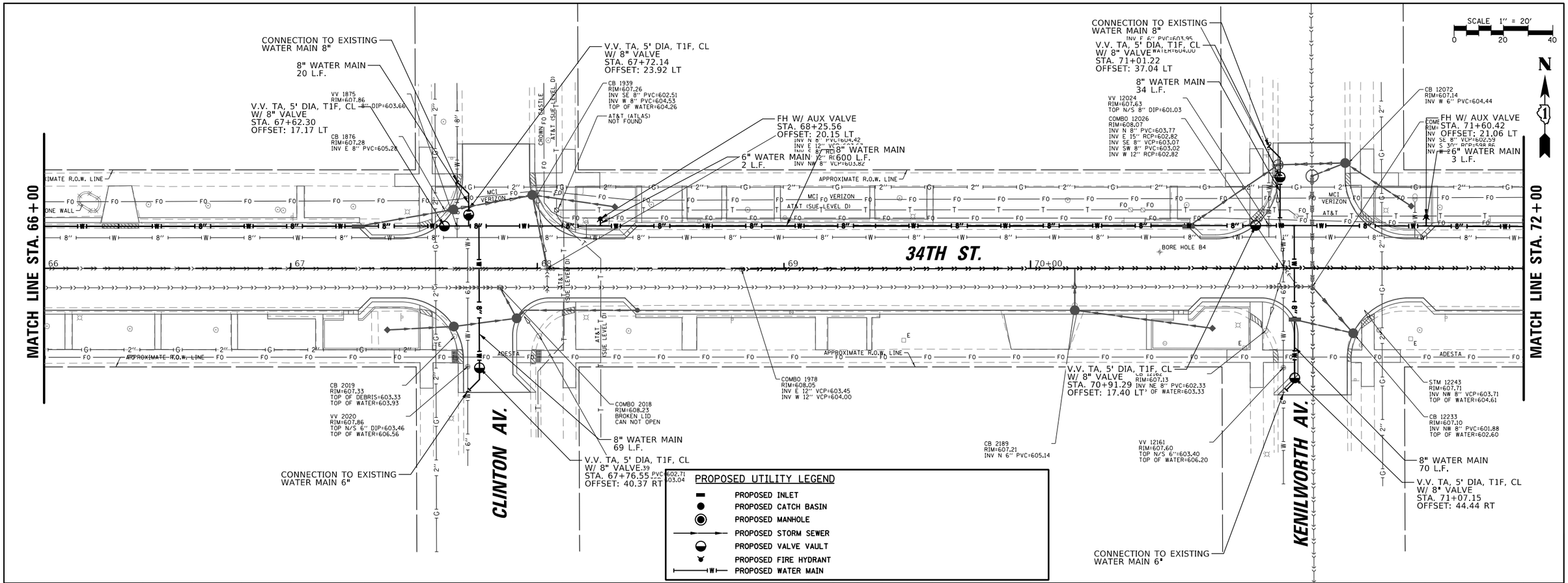
34TH STREET REHABILITATION
WATER MAIN PLAN AND PROFILE

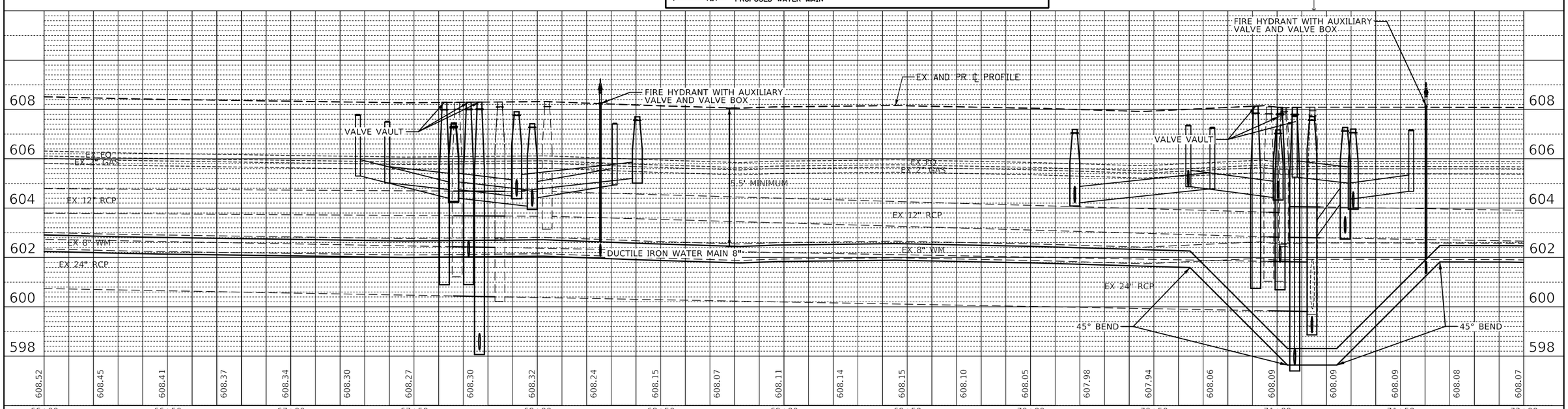
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	53

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
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NOTE BOOK NO.		

PROFILE	BY	DATE
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GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

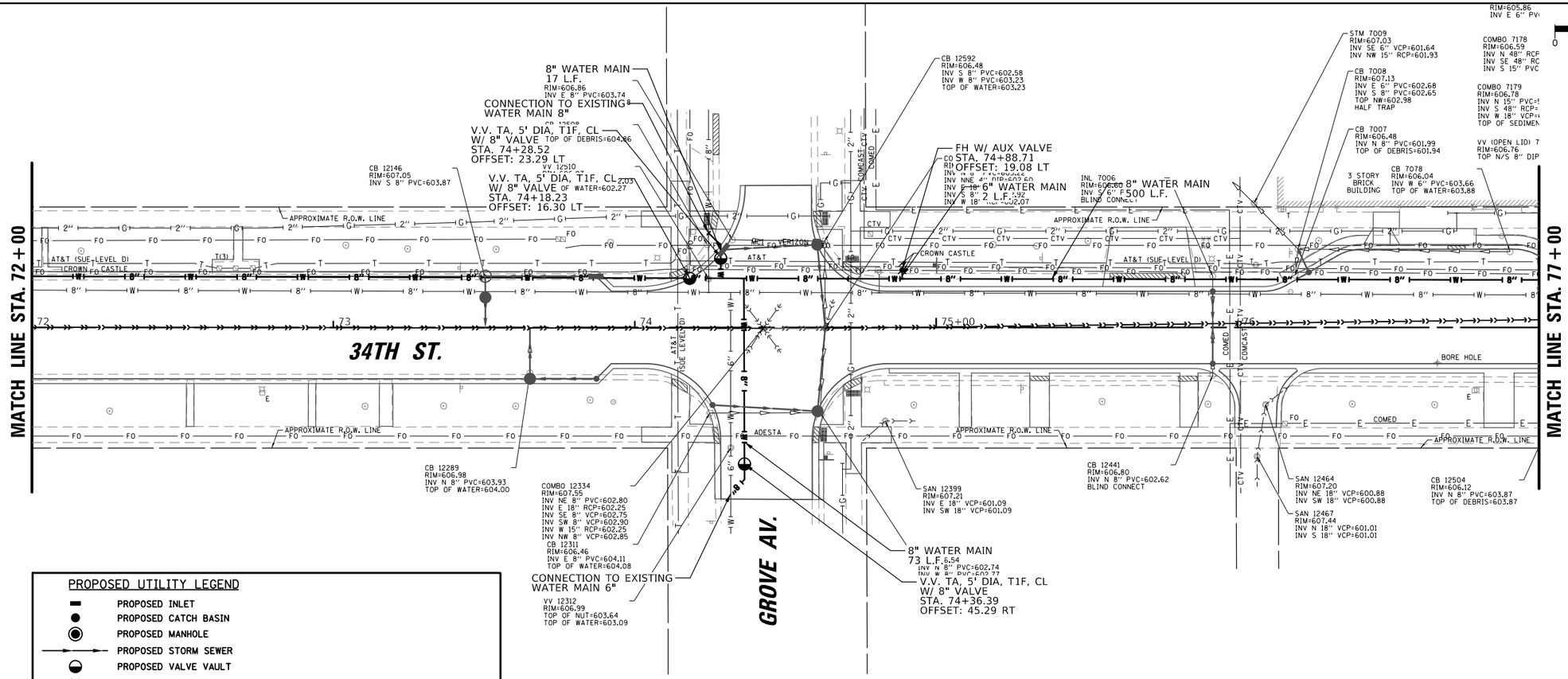
34TH STREET REHABILITATION
WATER MAIN PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	54

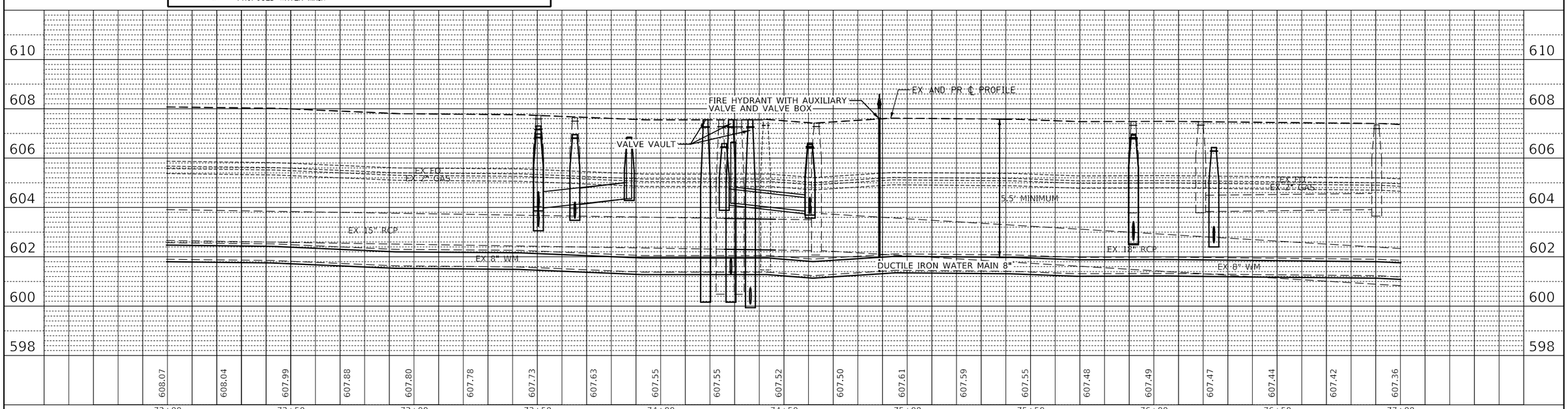
CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT



PROPOSED UTILITY LEGEND

- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED STORM SEWER
- PROPOSED VALVE VAULT
- PROPOSED FIRE HYDRANT
- PROPOSED WATER MAIN



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHK'D / NOTE BOOK NO. / BY / DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

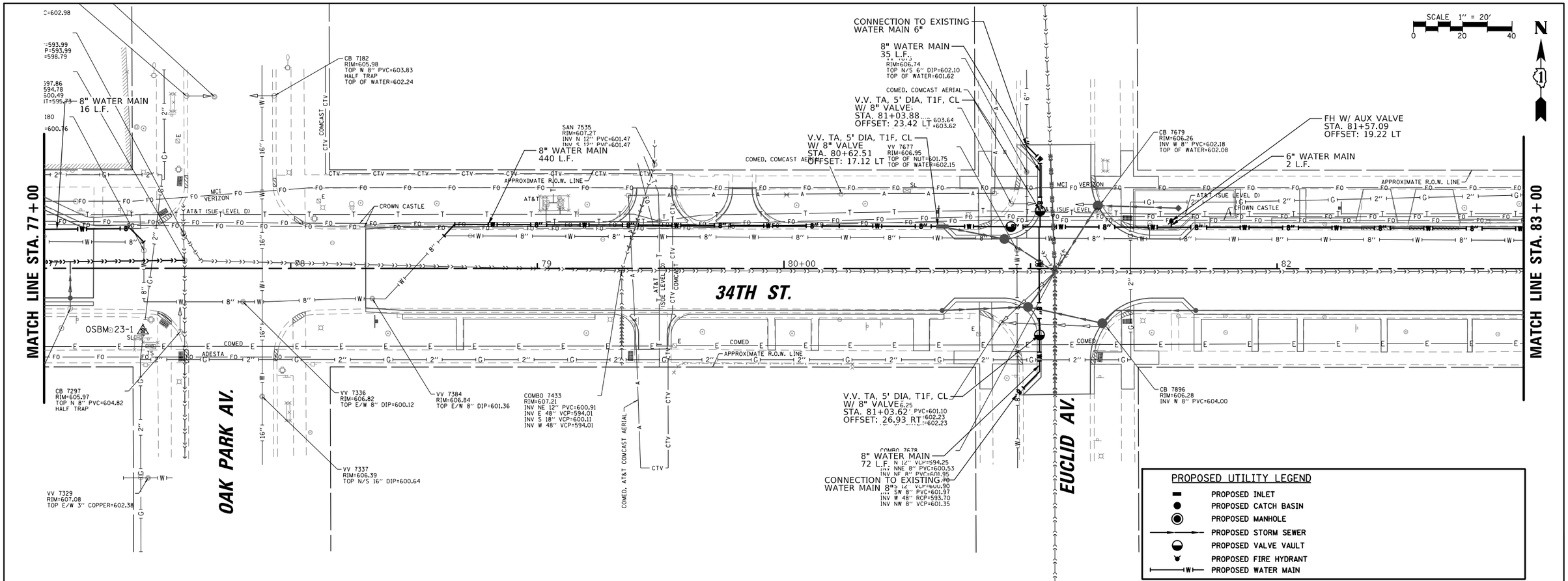
34TH STREET REHABILITATION
WATER MAIN PLAN AND PROFILE

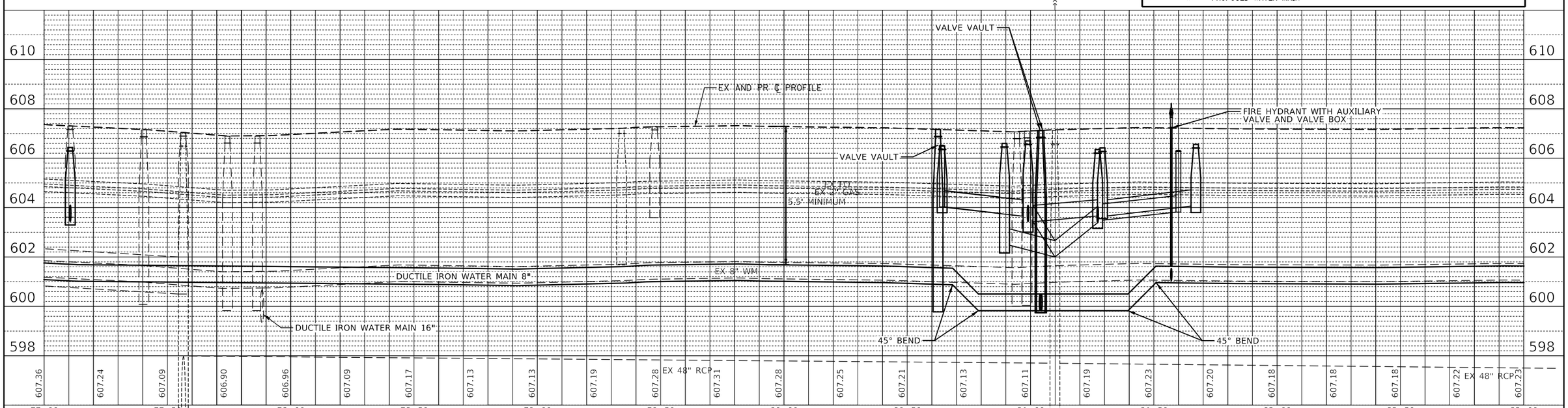
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	55

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
WATER MAIN PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	56

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT

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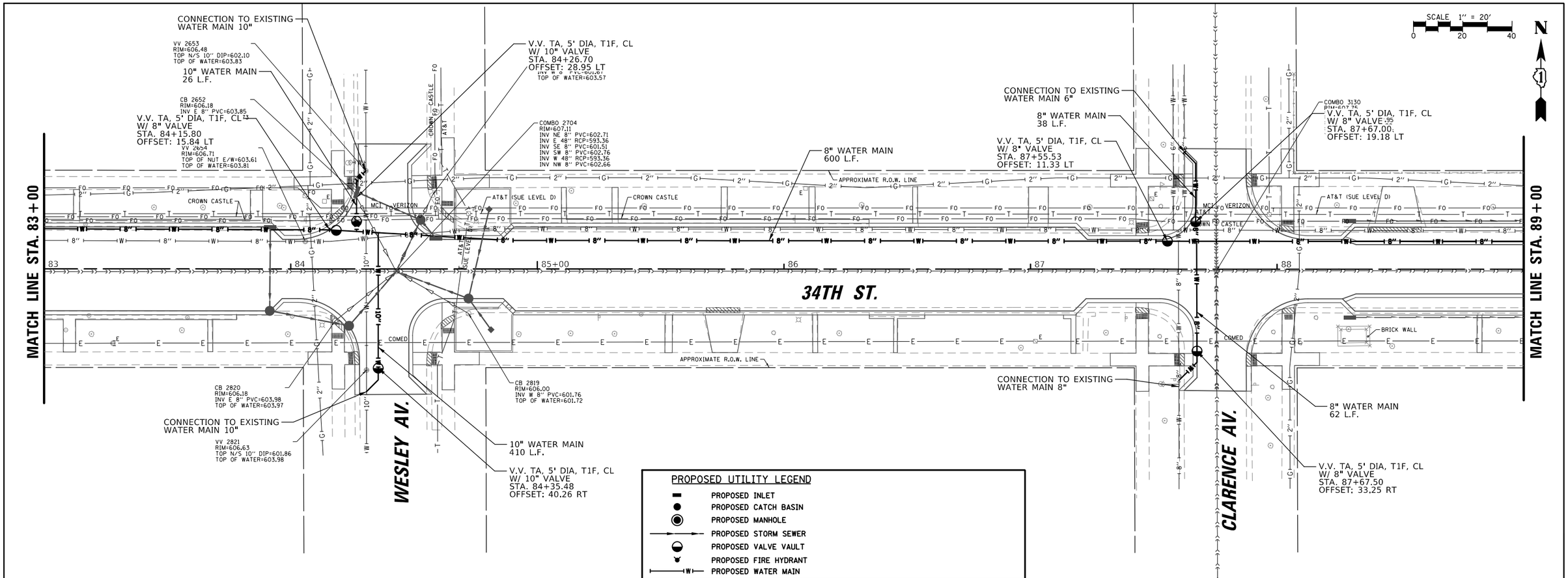
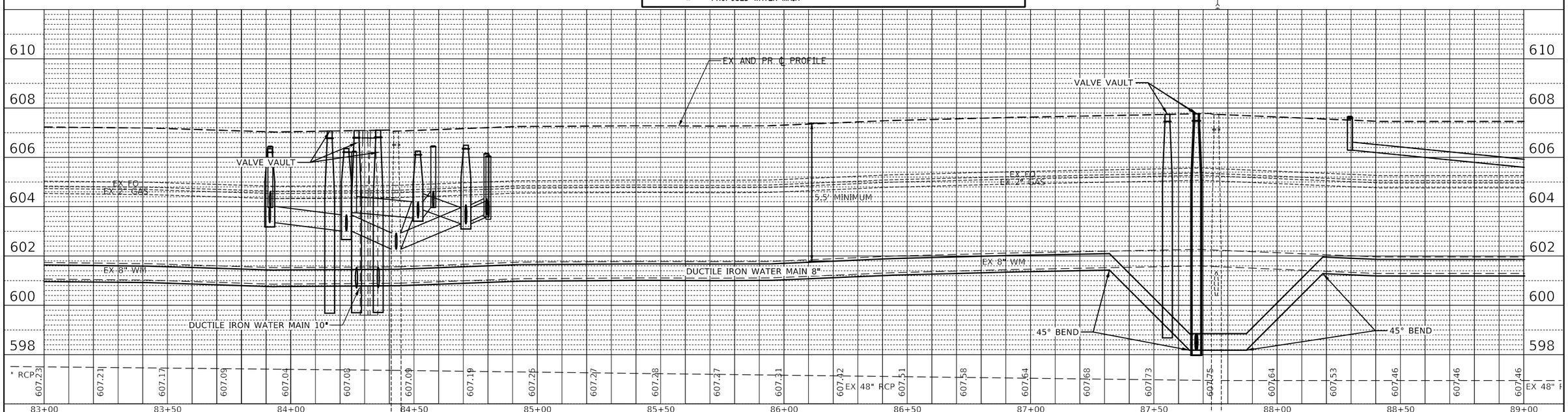


PROPOSED UTILITY LEGEND

- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED STORM SEWER
- PROPOSED VALVE VAULT
- PROPOSED FIRE HYDRANT
- PROPOSED WATER MAIN



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

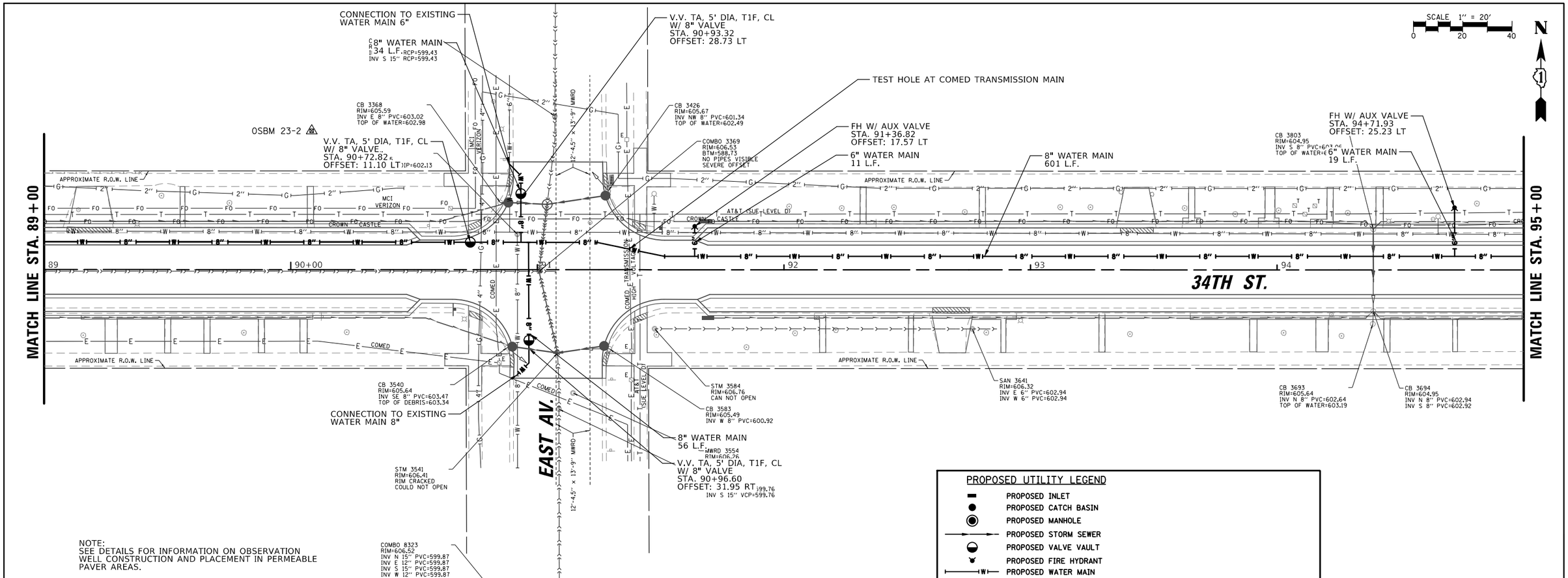
34TH STREET REHABILITATION
WATER MAIN PLAN AND PROFILE

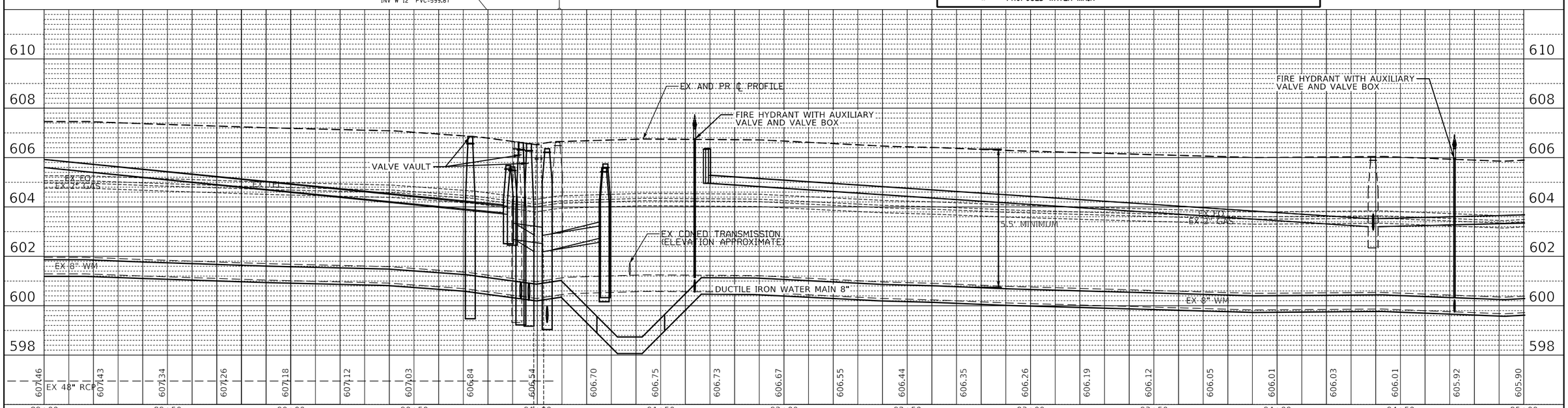
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	57
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		

PLAN — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTAT'NS CH'KD — BY — DATE





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

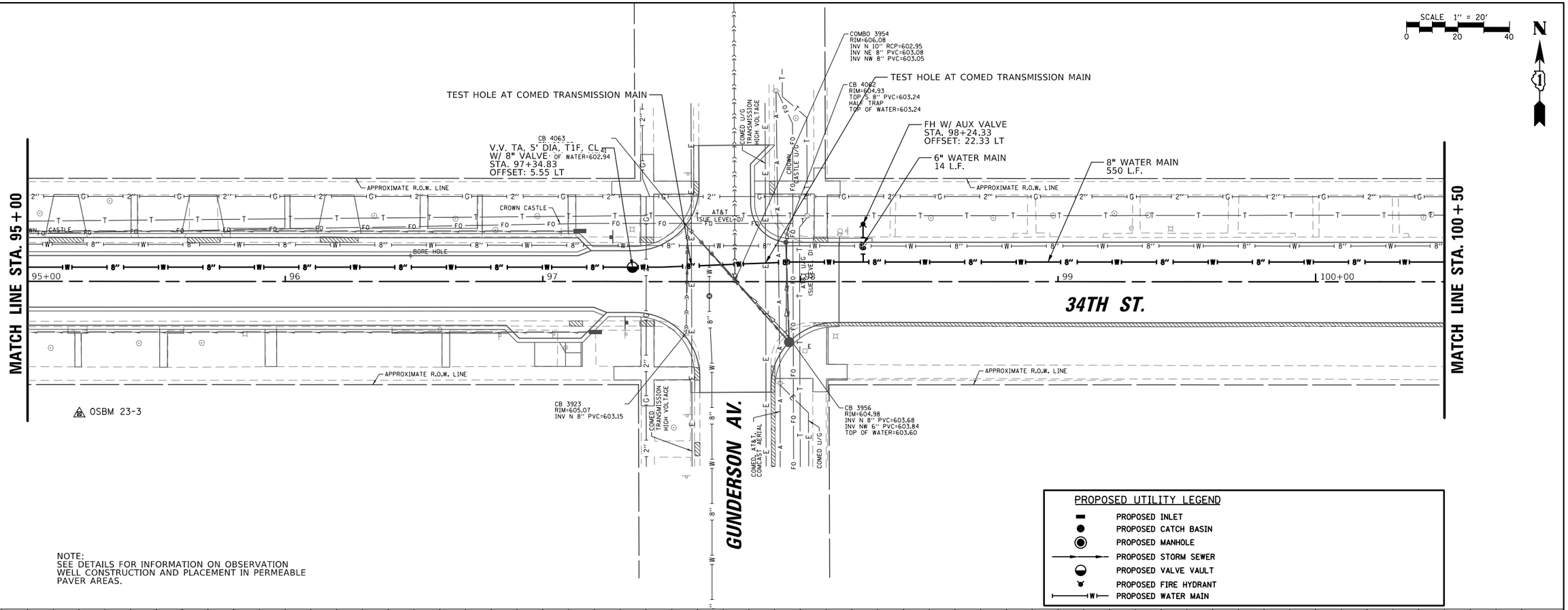
34TH STREET REHABILITATION
WATER MAIN PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	58

CONTRACT NO. 61M09

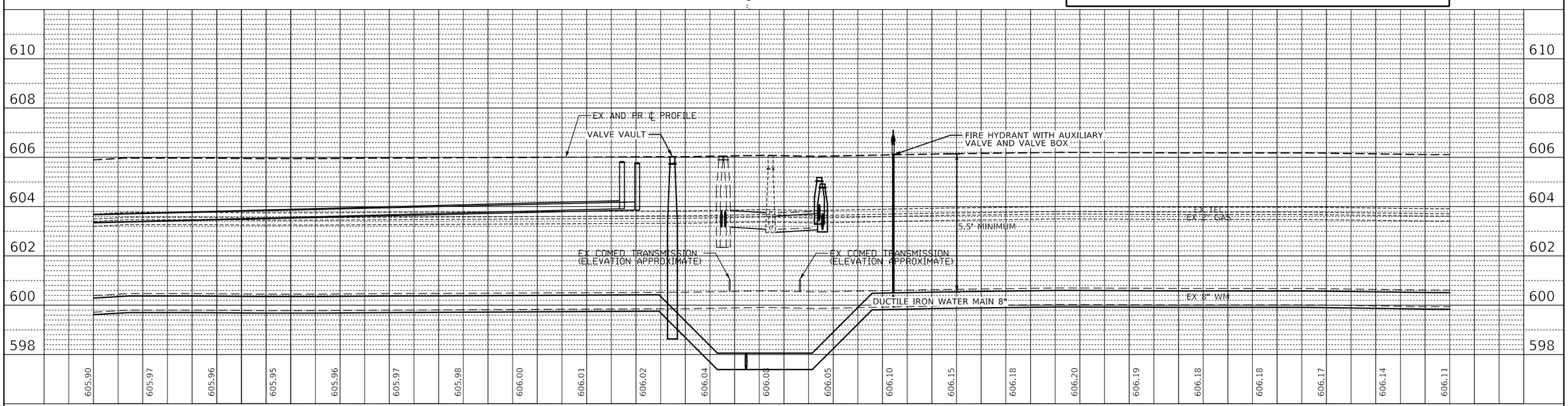
ILLINOIS FED. AID PROJECT



NOTE:
SEE DETAILS FOR INFORMATION ON OBSERVATION WELL CONSTRUCTION AND PLACEMENT IN PERMEABLE PAVER AREAS.

PROPOSED UTILITY LEGEND

- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED STORM SEWER
- PROPOSED VALVE VAULT
- PROPOSED FIRE HYDRANT
- PROPOSED WATER MAIN



PLAN	BY	DATE
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ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

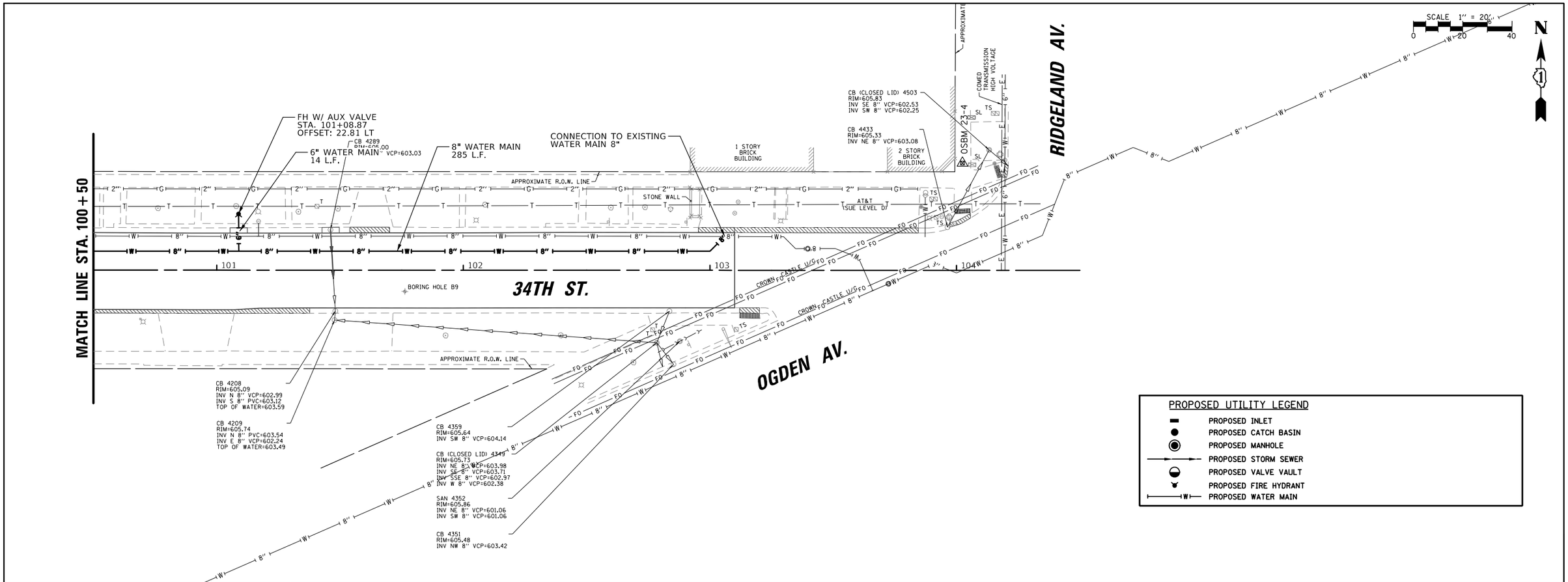
34TH STREET REHABILITATION
WATER MAIN PLAN AND PROFILE

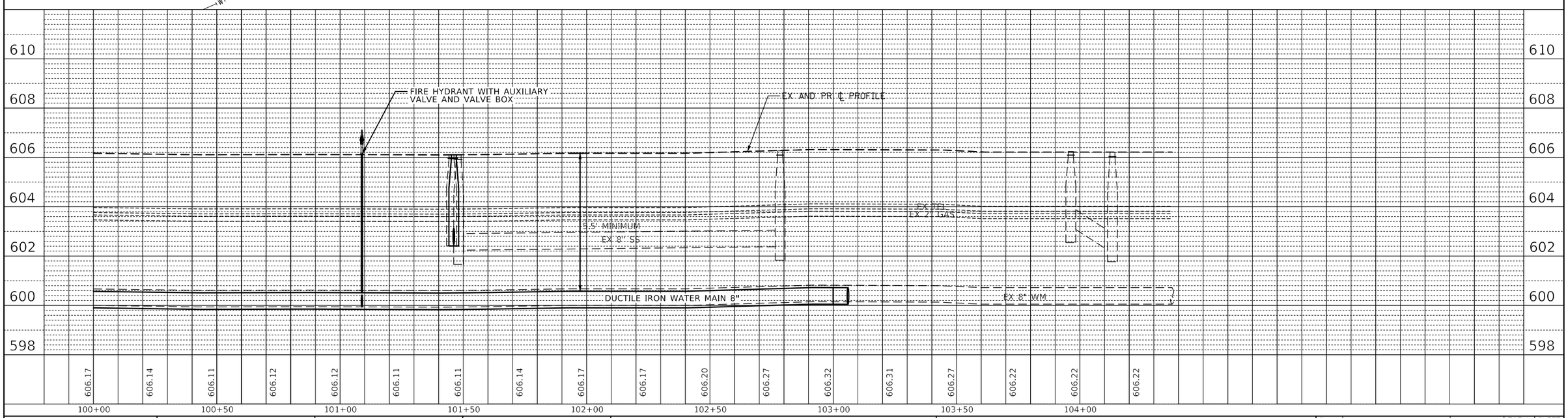
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	59

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT





PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BM. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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Default	PLOT SCALE = 40'	CHECKED -	REVISED -
	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

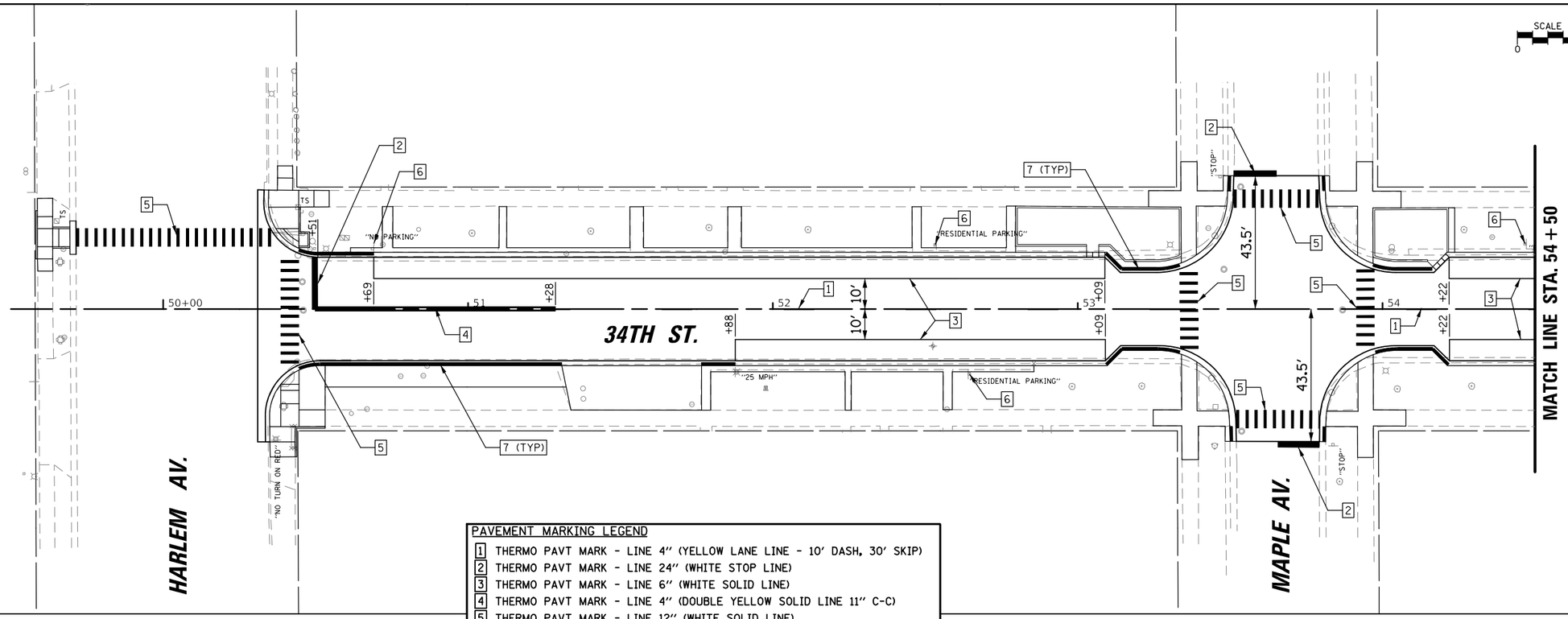
34TH STREET REHABILITATION
WATER MAIN PLAN AND PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	60

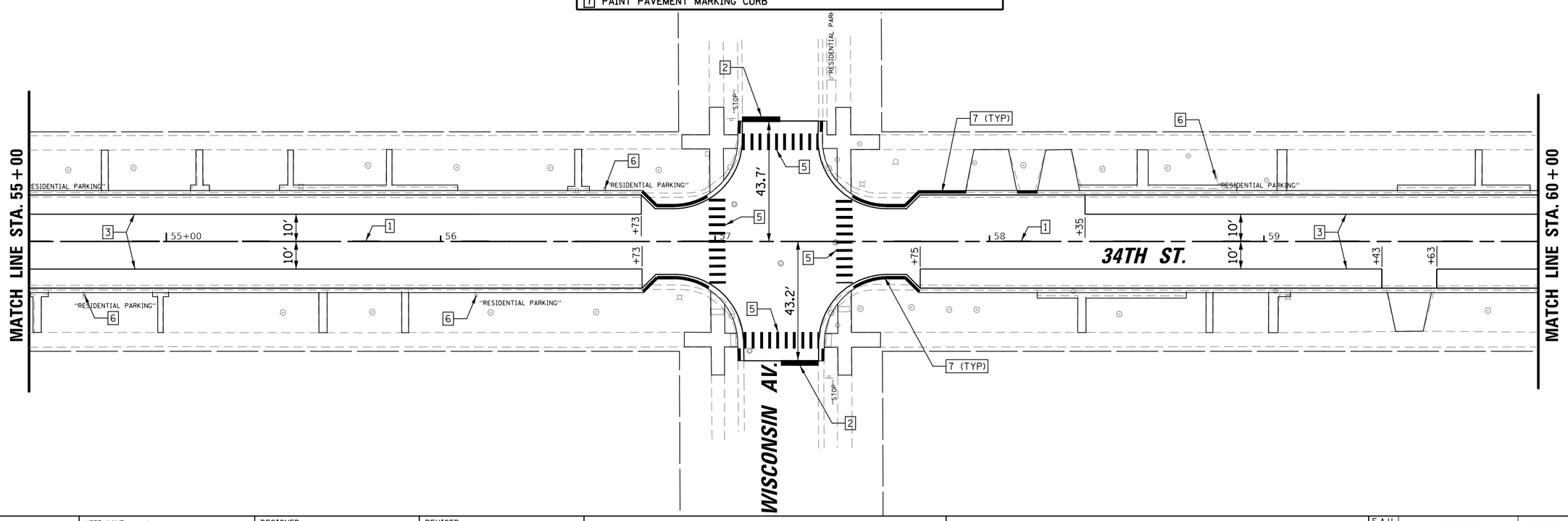
CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT



PAVEMENT MARKING LEGEND

1. THERMO PAVT MARK - LINE 4" (YELLOW LANE LINE - 10' DASH, 30' SKIP)
2. THERMO PAVT MARK - LINE 24" (WHITE STOP LINE)
3. THERMO PAVT MARK - LINE 6" (WHITE SOLID LINE)
4. THERMO PAVT MARK - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)
5. THERMO PAVT MARK - LINE 12" (WHITE SOLID LINE)
6. REMOVE AND RELOCATE SIGN PANEL ASSEMBLY - TYPE A
7. PAINT PAVEMENT MARKING CURB



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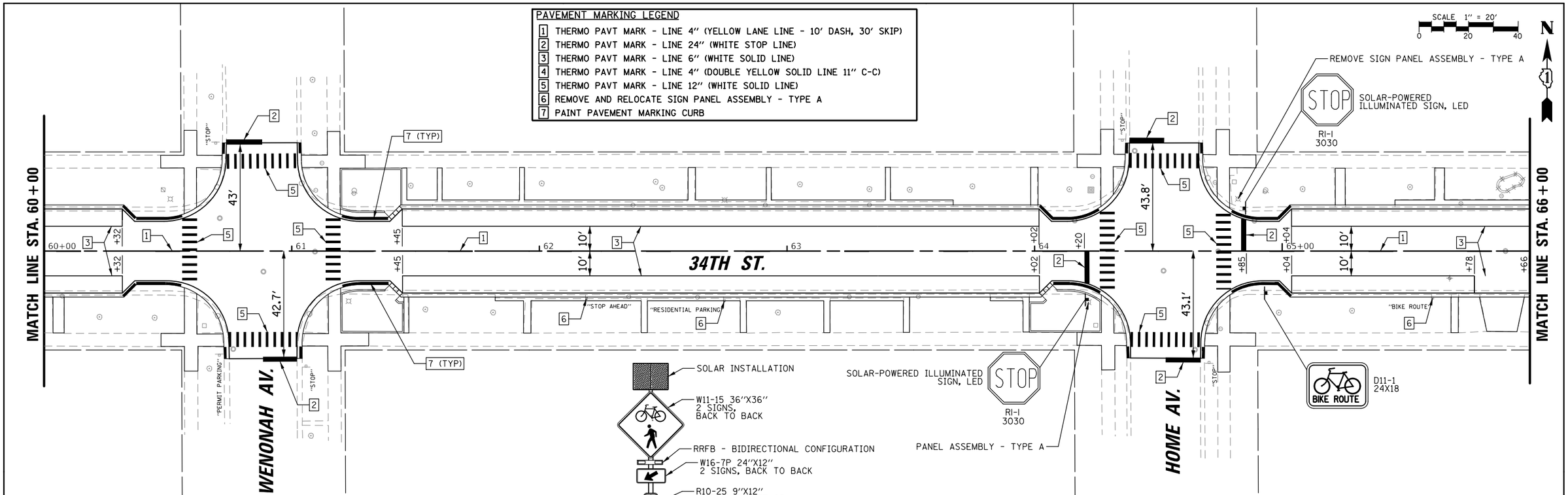
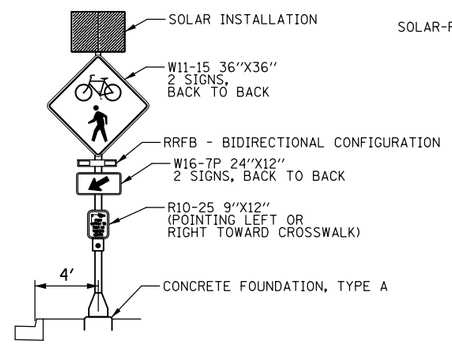
		DRAWN -	REVISED -			3734	23-00177-00-PV	COOK	97	61
	PLOT SCALE = 40'	CHECKED -	REVISED -					CONTRACT NO. 61M09		
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

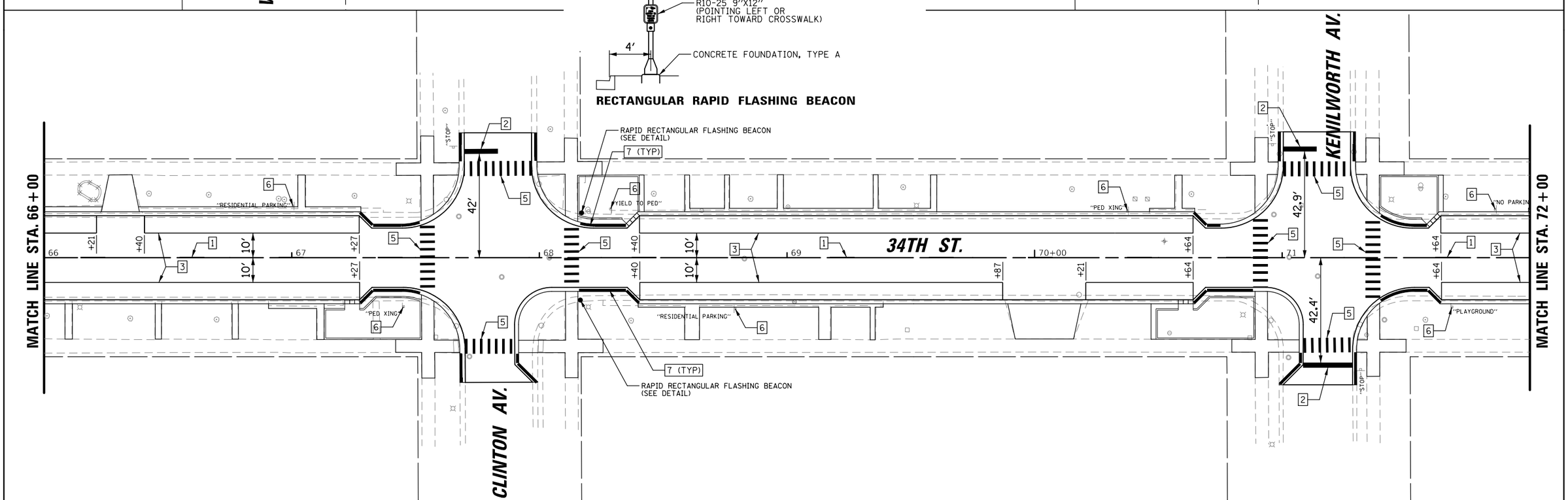
PAVEMENT MARKING LEGEND

1. THERMO PAVT MARK - LINE 4" (YELLOW LANE LINE - 10' DASH, 30' SKIP)
2. THERMO PAVT MARK - LINE 24" (WHITE STOP LINE)
3. THERMO PAVT MARK - LINE 6" (WHITE SOLID LINE)
4. THERMO PAVT MARK - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)
5. THERMO PAVT MARK - LINE 12" (WHITE SOLID LINE)
6. REMOVE AND RELOCATE SIGN PANEL ASSEMBLY - TYPE A
7. PAINT PAVEMENT MARKING CURB





RECTANGULAR RAPID FLASHING BEACON



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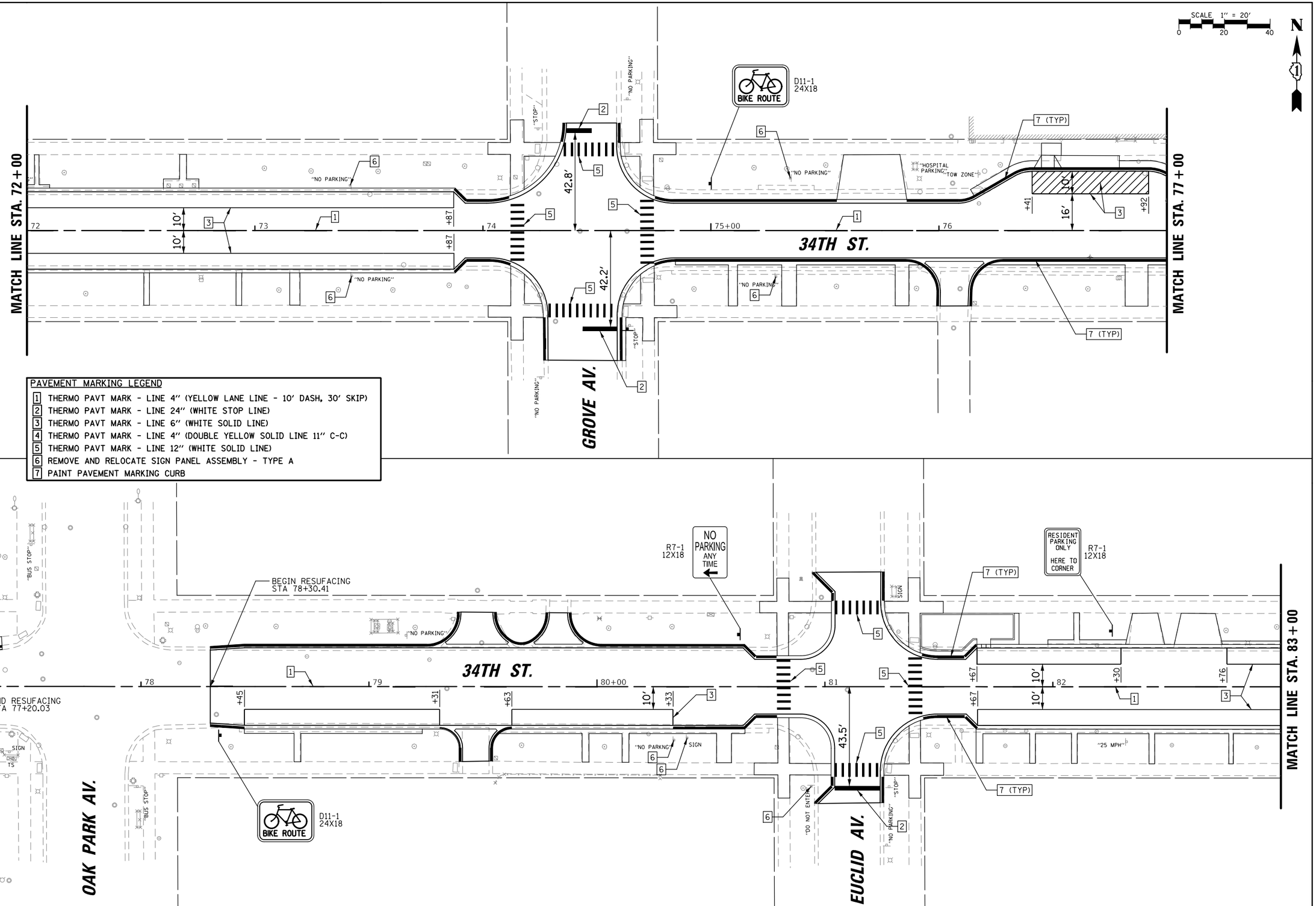
Default	PLOT DATE = 11/17/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
PAVEMENT MARKING PLAN AND SIGNAGE PLAN

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	62
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		



PAVEMENT MARKING LEGEND

1. THERMO PAVT MARK - LINE 4" (YELLOW LANE LINE - 10' DASH, 30' SKIP)
2. THERMO PAVT MARK - LINE 24" (WHITE STOP LINE)
3. THERMO PAVT MARK - LINE 6" (WHITE SOLID LINE)
4. THERMO PAVT MARK - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)
5. THERMO PAVT MARK - LINE 12" (WHITE SOLID LINE)
6. REMOVE AND RELOCATE SIGN PANEL ASSEMBLY - TYPE A
7. PAINT PAVEMENT MARKING CURB

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Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

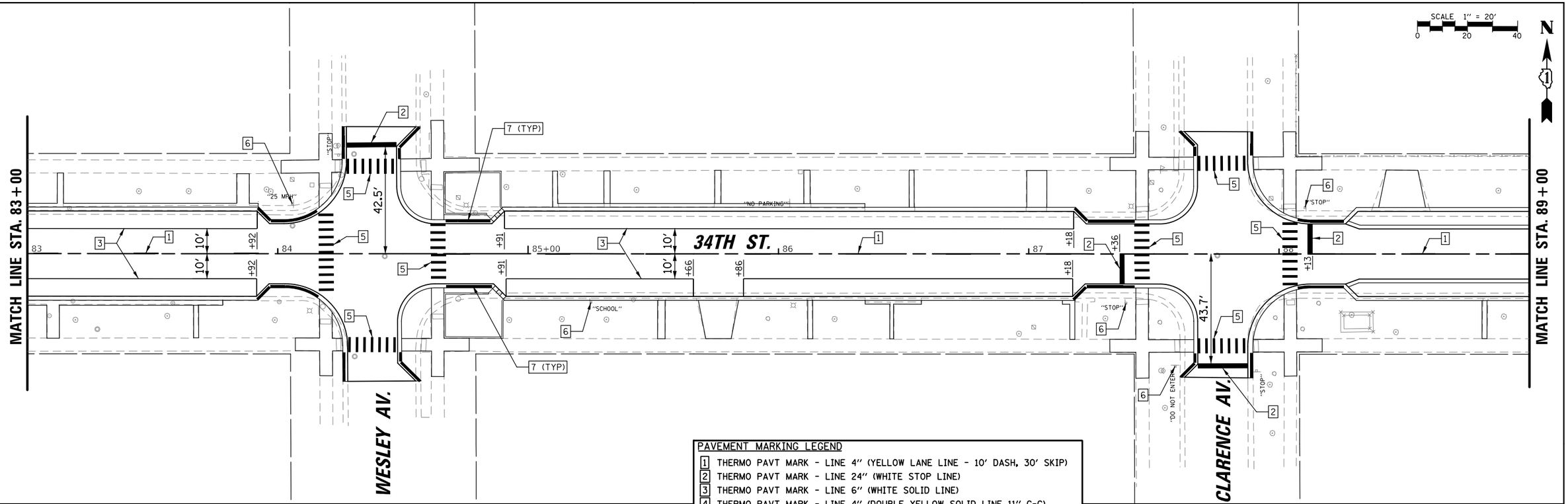
34TH STREET REHABILITATION
PAVEMENT MARKING PLAN AND SIGNAGE PLAN

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	63

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT



PAVEMENT MARKING LEGEND

1. THERMO PAVT MARK - LINE 4" (YELLOW LANE LINE - 10' DASH, 30' SKIP)
2. THERMO PAVT MARK - LINE 24" (WHITE STOP LINE)
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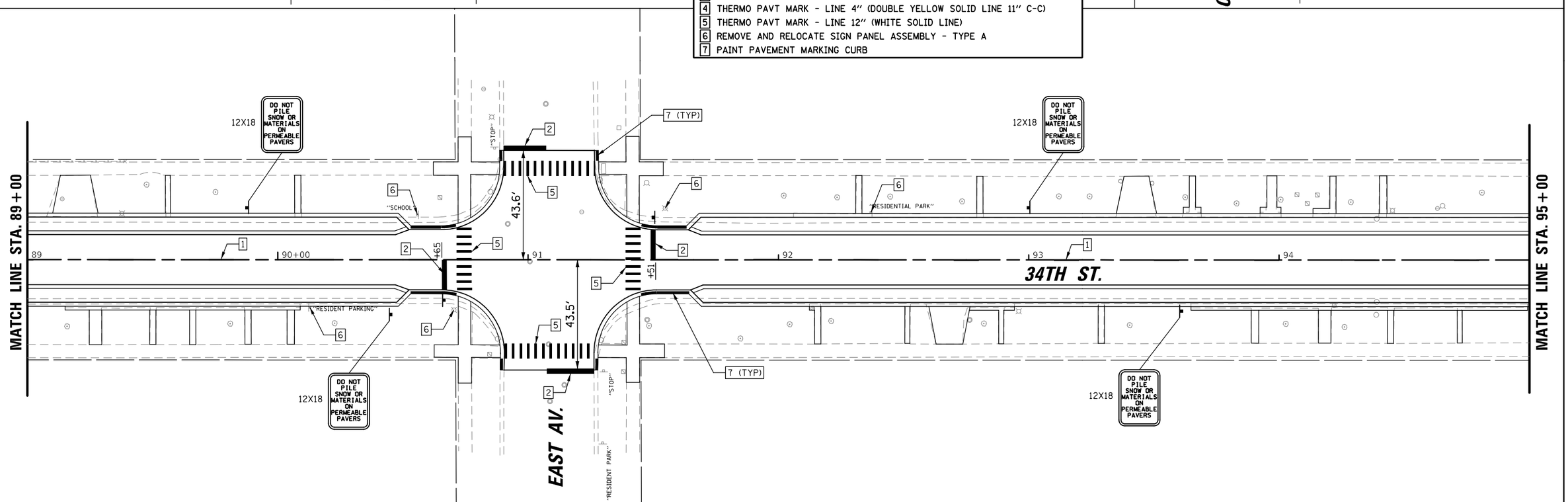
5. THERMO PAVT MARK - LINE 12" (WHITE SOLID LINE)
6. REMOVE AND RELOCATE SIGN PANEL ASSEMBLY - TYPE A
7. PAINT PAVEMENT MARKING CURB



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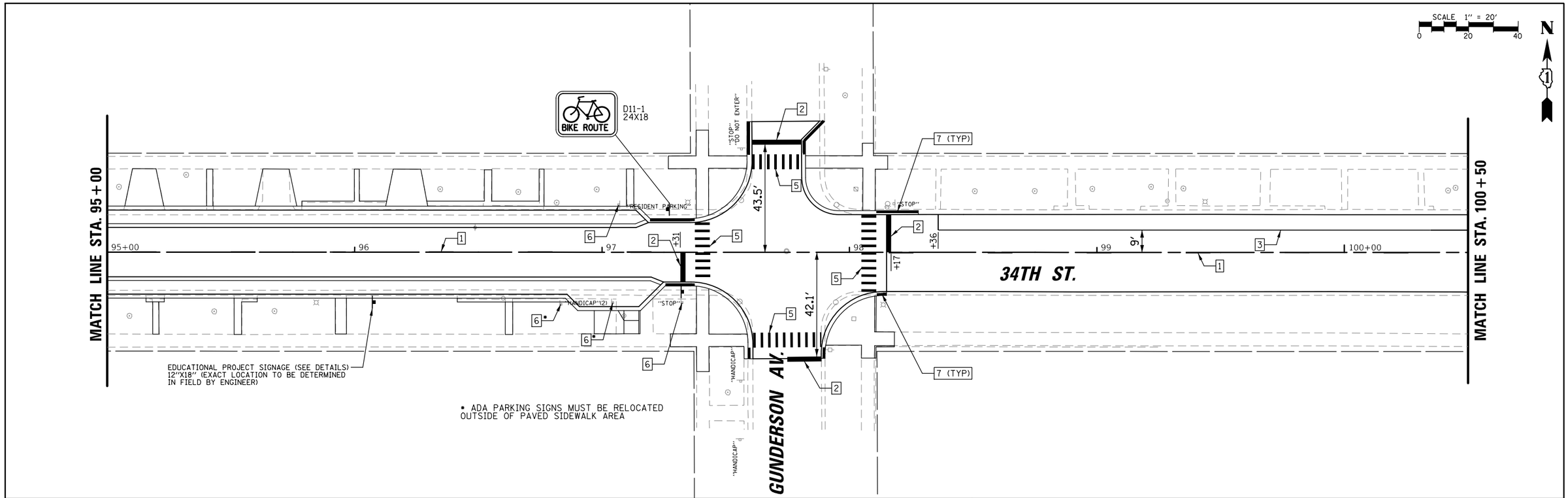
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

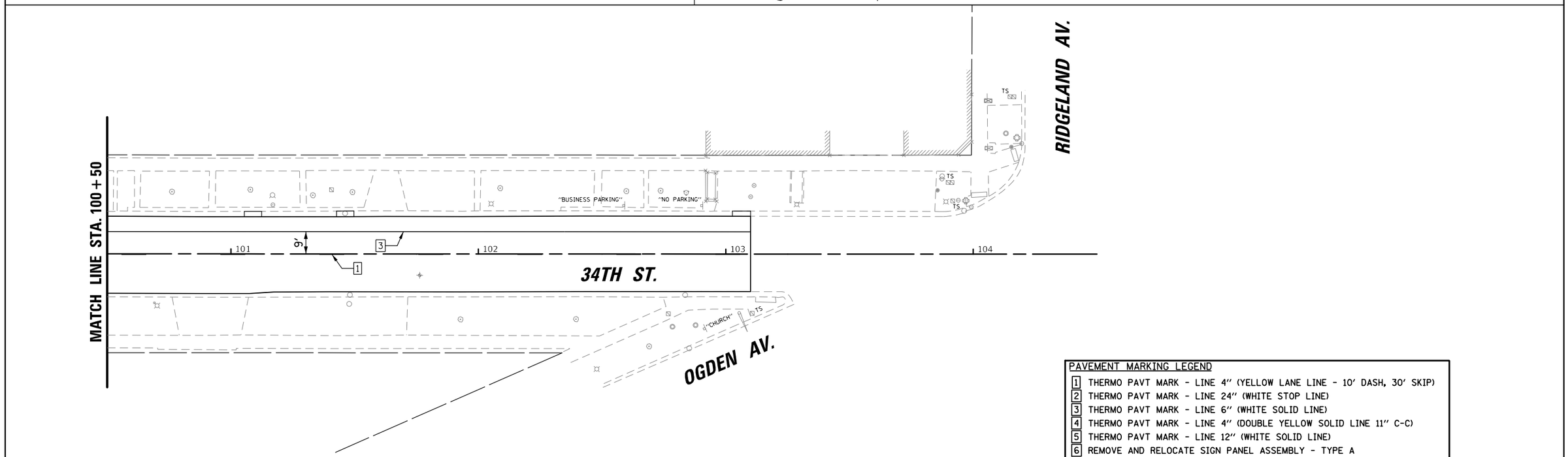
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
PAVEMENT MARKING PLAN AND SIGNAGE PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	64
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		





PAVEMENT MARKING LEGEND

1. THERMO PAVT MARK - LINE 4" (YELLOW LANE LINE - 10' DASH, 30' SKIP)
2. THERMO PAVT MARK - LINE 24" (WHITE STOP LINE)
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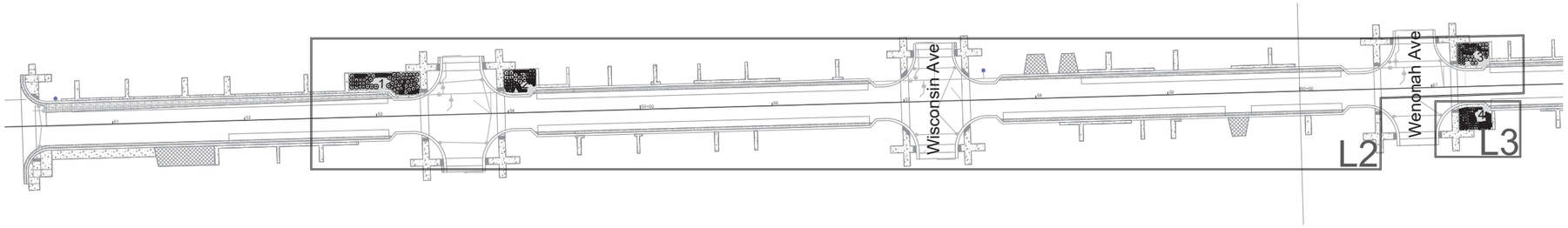
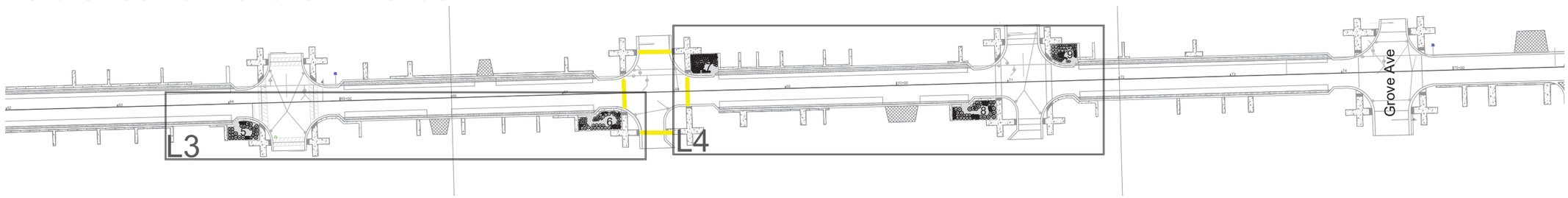
4. THERMO PAVT MARK - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)
5. THERMO PAVT MARK - LINE 12" (WHITE SOLID LINE)
6. REMOVE AND RELOCATE SIGN PANEL ASSEMBLY - TYPE A
7. PAINT PAVEMENT MARKING CURB

FILE NAME = N:\BERWYN\220369.02\Civil\PMK5_220369-02.SHT	USER NAME = mthomas	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	34TH STREET REHABILITATION PAVEMENT MARKING PLAN AND SIGNAGE PLAN	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			3734	23-00177-00-PV	COOK	97 / 65
	PLOT SCALE = 40'	CHECKED -	REVISED -					CONTRACT NO. 61M09	
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	

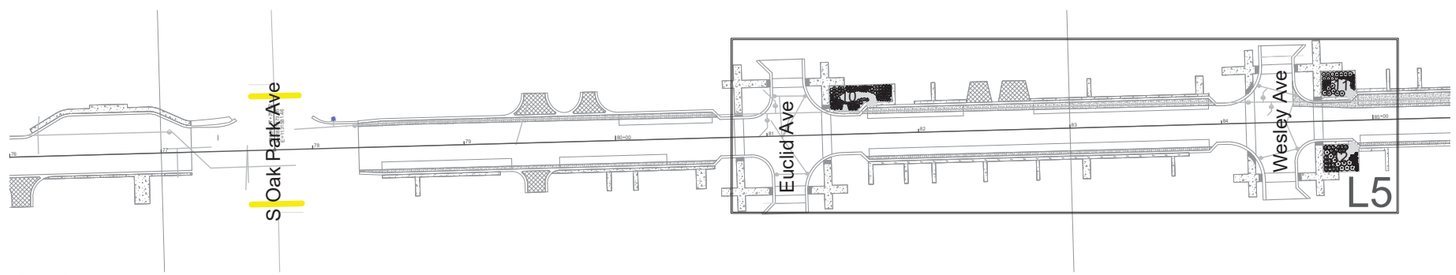
OVERALL SITE KEY PLAN



43rd Street to Wenonah Avenue



Home Avenue to Grove Avenue



S Oak Park Avenue to Wesley Ave

LEGEND

PLANTING SOIL MIX	5,454 SQFT
DECOR STONE	1,455 SQFT

PLANT PALETTE

Code	Botanical Name	Common Name	Size	Type	Spacing	Quantity
NATIVE GRASS						
SCH SCO	Schizachyrium scoparium 'The Blues'	The Blues Little Bluestem	1 Gal.	Container	1' O.C	111
SCI ATR	Scirpus atrovirens	Dark green Bulrush	1 Gal.	Container	2' O.C	74
SPO HET	Sporobolus heterolepis	Prairie Dropseed	1 Gal.	Container	2' O.C	43
RAIN GARDEN MIX						228
ACO SME	Acorus calamus	Sweet Flag	1 Gal.	Container	1.5' O.C	93
AMS EBD	Amsonia tabernaemontana 'Storm Cloud'	Storm Cloud Eastern Bluestar	1 Gal.	Container	2' O.C	43
AST OSK	Aster oblongifolius 'October Skies'	October Skies Fall Aster	1 Gal.	Container	1' O.C	145
AST VWH	Astilbe chinensis 'Vision in White'	Vision in White Chinese Astilbe	1 Gal.	Container	1' O.C	101
DAL CAN	Dalea candida	White Prairie Clover	1 Gal.	Container	1' O.C	115
LIA KOB	Liatris spicata 'Kobold'	Kobold Blazing Star	1 Gal.	Container	1' O.C	37
PER ABR	Perovskia atriplicifolia	Russian Sage	1 Gal.	Container	2' O.C	19
RAT PIN	Ratibida pinnata	Yellow Coneflower	1 Gal.	Container	1.5' O.C	95
RUD KVT	Rudbeckia fulgida 'Blovi'	Viette's Little Suzy Coneflower	1 Gal.	Container	1.5' O.C	57

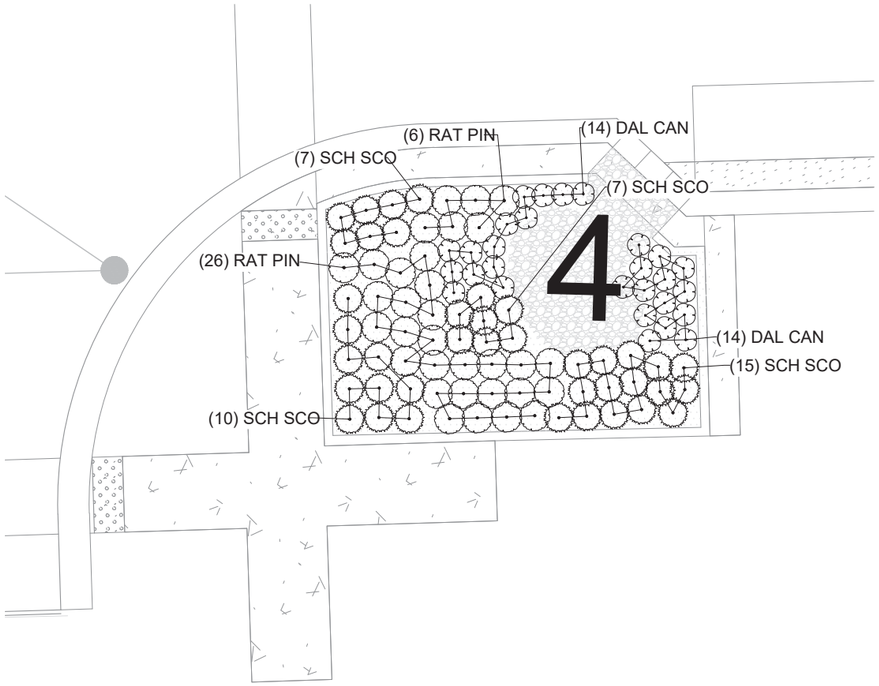
Plant Bed 1 and 2

Plant Bed 3

BED 1						
Code	**Botanical Name**	**Common Name**	**Size**	**Type**	**Spacing**	**Quantity**
NATIVE GRASS						
SCI ATR	Scirpus atrovirens	Dark green Bulrush	1 Gal.	Container	2' O.C	33
RAIN GARDEN MIX						
AST OSK	Aster oblongifolius 'October Skies'	October Skies Fall Aster	1 Gal.	Container	1' O.C	52
RUD KVT	Rudbeckia fulgida 'Blovi'	Viette's Little Suzy Coneflower	1 Gal.	Container	1.5' O.C	23

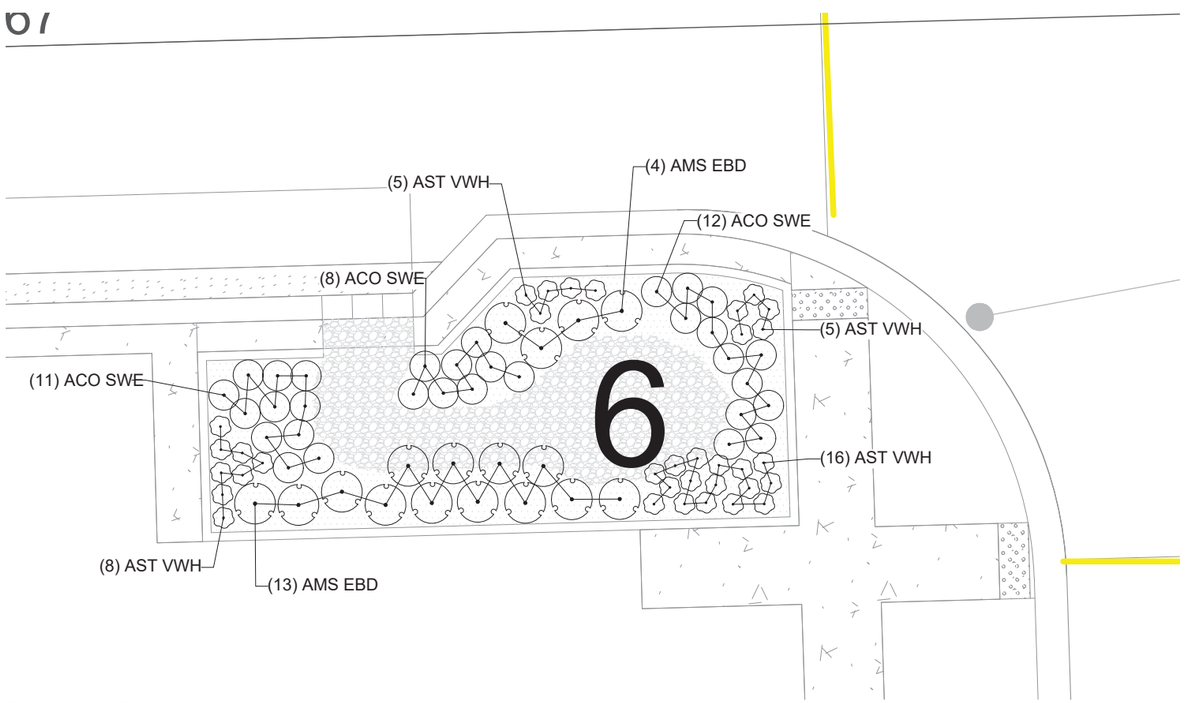
BED 2						
Code	**Botanical Name**	**Common Name**	**Size**	**Type**	**Spacing**	**Quantity**
NATIVE GRASS						
SPO HET	Sporobolus heterolepis	Prairie Dropseed	1 Gal.	Container	2' O.C	22
RAIN GARDEN MIX						
LIA KOB	Liatris spicata 'Kobold'	Kobold Blazing Star	1 Gal.	Container	1' O.C	25
PER ABR	Perovskia atriplicifolia	Russian Sage	1 Gal.	Container	2' O.C	10

BED 3						
Code	**Botanical Name**	**Common Name**	**Size**	**Type**	**Spacing**	**Quantity**
RAIN GARDEN MIX						
ACO SWE	Acorus calamus	Sweet Flag	1 Gal.	Container	1.5' O.C	35
AMS EBD	Amsonia tabernaemontana 'Storm Cloud'	Storm Cloud Eastern Bluestar	1 Gal.	Container	2' O.C	13
AST VWH	Astilbe chinensis 'Vision in White'	Vision in White Chinese Astilbe	1 Gal.	Container	1' O.C	41



Plant Bed 4

Plant Bed 5

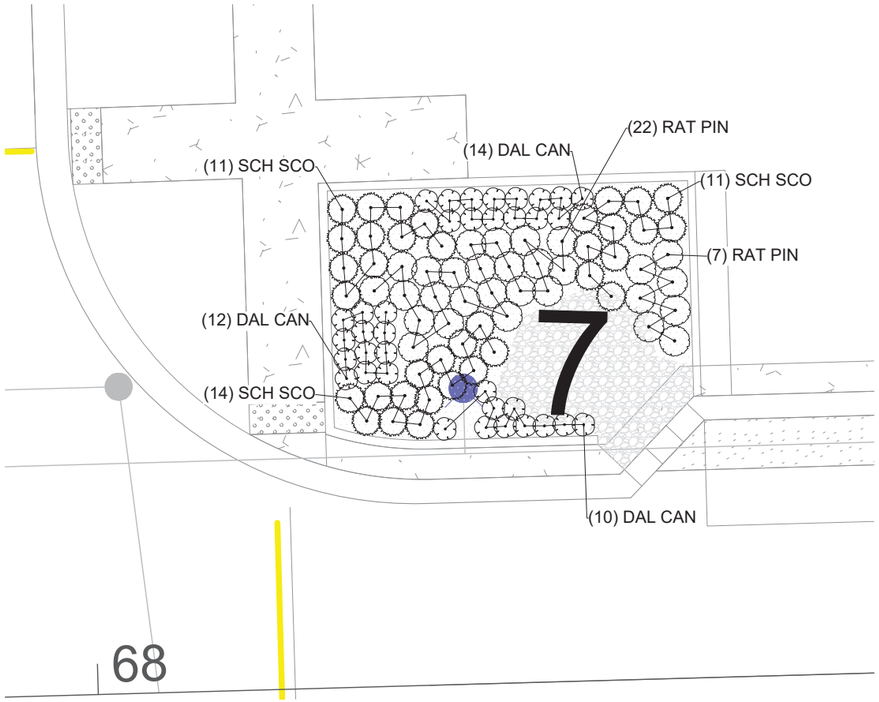


Plant Bed 6

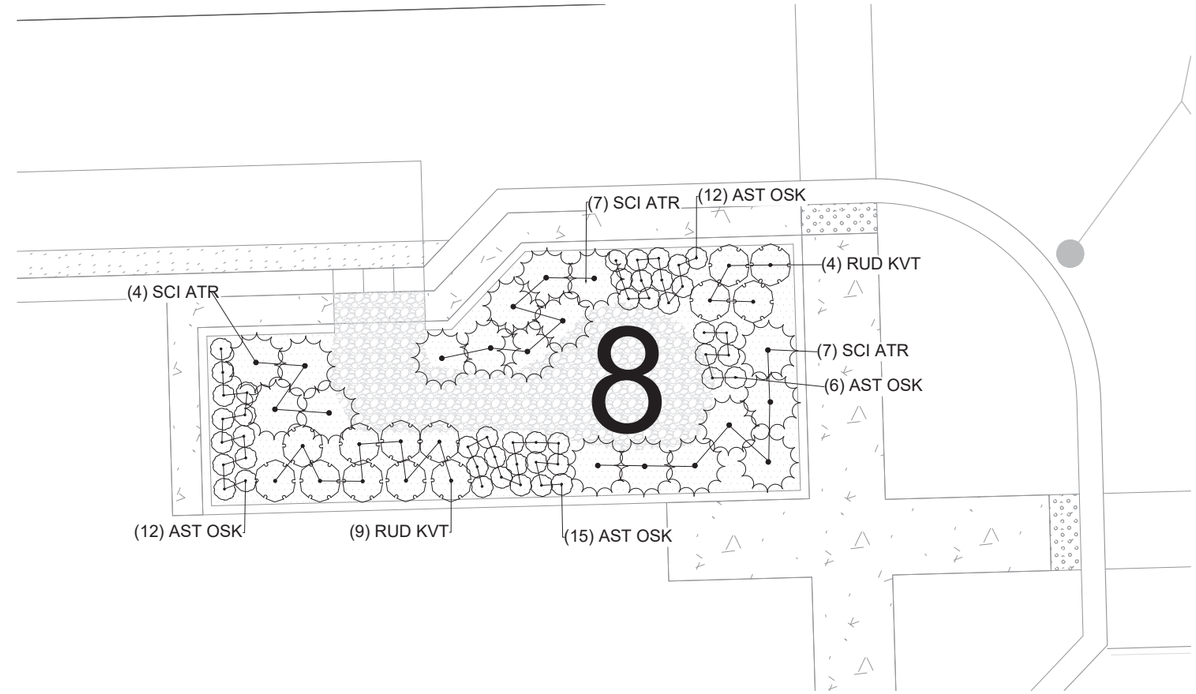
BED 4						
Code	Botanical Name	Common Name	Size	Type	Spacing	Quantity
NATIVE GRASS						
SCH SCO	Schizachyrium scoparium 'The Blues'	The Blues Little Bluestem	1 Gal.	Container	1' O.C	39
RAIN GARDEN MIX						
DAL CAN	Dalea candida	White Prairie Clover	1 Gal.	Container	1' O.C	28
RAT PIN	Ratibida pinnata	Yellow Coneflower	1 Gal.	Container	1.5' O.C	32

BED 5						
Code	Botanical Name	Common Name	Size	Type	Spacing	Quantity
NATIVE GRASS						
SCI ATR	Scirpus atrovirens	Dark green Bulrush	1 Gal.	Container	2' O.C	12
RAIN GARDEN MIX						
AST OSK	Aster oblongifolius 'October Skies'	October Skies Fall Aster	1 Gal.	Container	1' O.C	15
RUD KVT	Rudbeckia fulgida 'Blovi'	Viette's Little Suzy Coneflower	1 Gal.	Container	1.5' O.C	14

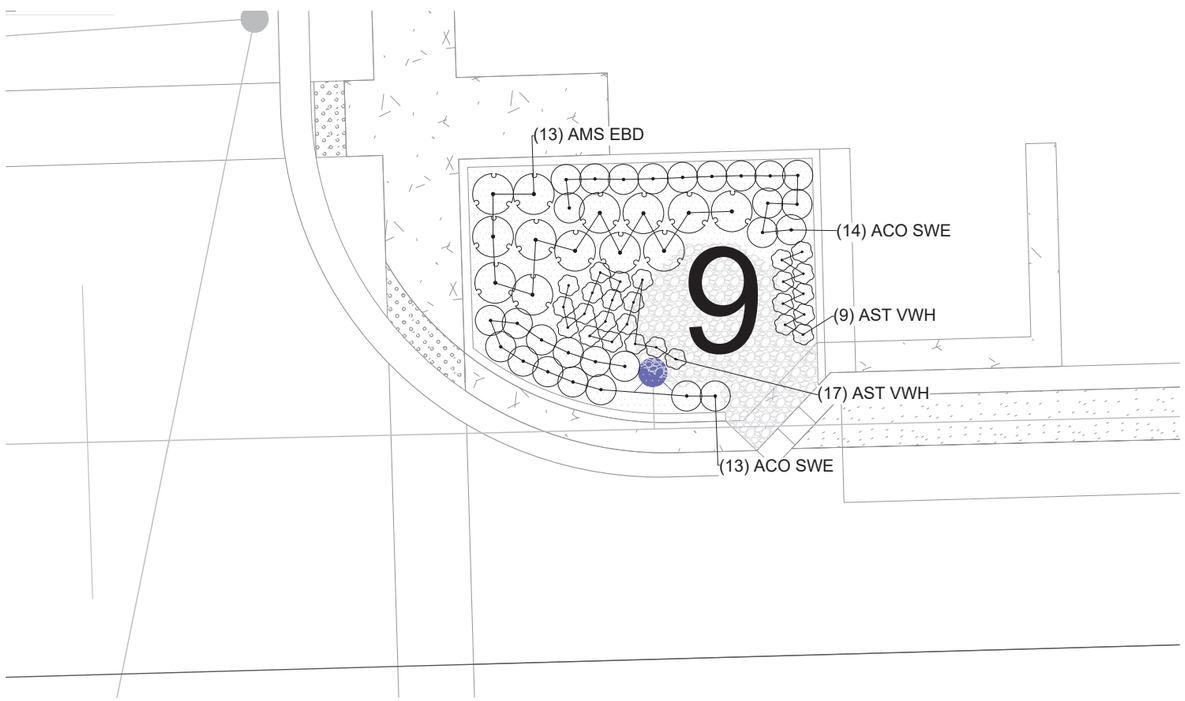
BED 6						
Code	Botanical Name	Common Name	Size	Type	Spacing	Quantity
RAIN GARDEN MIX						
ACO SWE	Acorus calamus	Sweet Flag	1 Gal.	Container	1.5' O.C	31
AMS EBD	Amsonia tabernaemontana 'Storm Cloud'	Storm Cloud Eastern Bluestar	1 Gal.	Container	2' O.C	17
AST VWH	Astilbe chinensis 'Vision in White'	Vision in White Chinese Astilbe	1 Gal.	Container	1' O.C	34



Plant Bed 7



Plant Bed 8

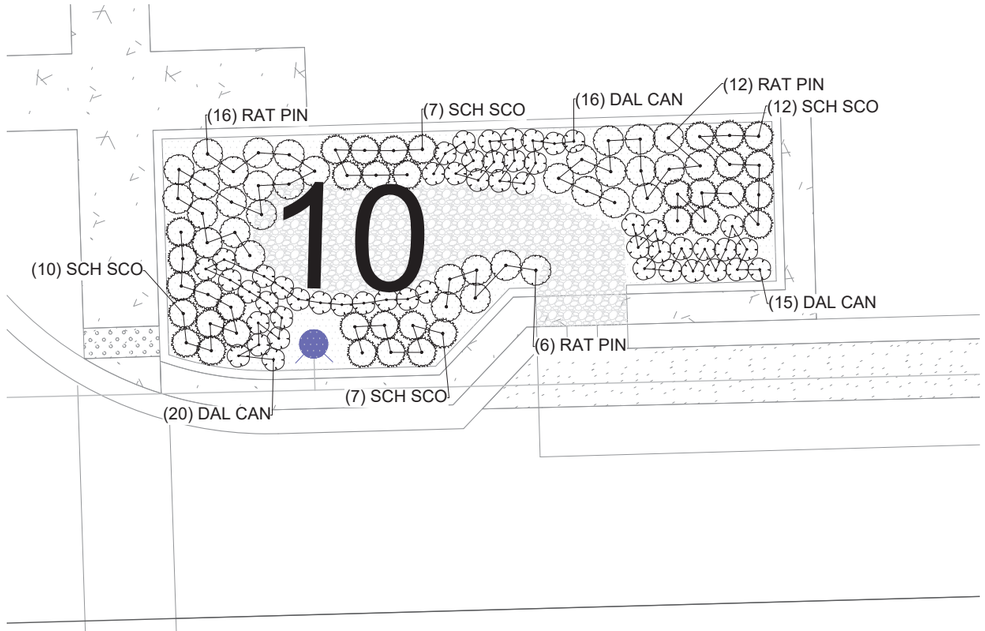


Plant Bed 9

BED 7						
Code	Botanical Name	Common Name	Size	Type	Spacing	Quantity
NATIVE GRASS						
SCH SCO	Schizachyrium scoparium 'The Blues'	The Blues Little Bluestem	1 Gal.	Container	1' O.C	36
RAIN GARDEN MIX						
DAL CAN	Dalea candida	White Prairie Clover	1 Gal.	Container	1' O.C	36
RAT PIN	Ratibida pinnata	Yellow Coneflower	1 Gal.	Container	1.5' O.C	29

BED 8						
Code	Botanical Name	Common Name	Size	Type	Spacing	Quantity
NATIVE GRASS						
SCI ATR	Scirpus atrovirens	Dark green Bulrush	1 Gal.	Container	2' O.C	18
RAIN GARDEN MIX						
AST OSK	Aster oblongifolius 'October Skies'	October Skies Fall Aster	1 Gal.	Container	1' O.C	45
RUD KVT	Rudbeckia fulgida 'Blovi'	Viette's Little Suzy Coneflower	1 Gal.	Container	1.5' O.C	13

BED 9						
Code	Botanical Name	Common Name	Size	Type	Spacing	Quantity
RAIN GARDEN MIX						
ACO SWE	Acorus calamus	Sweet Flag	1 Gal.	Container	1.5' O.C	27
AMS EBD	Amsonia tabernaemontana 'Storm Clo	Storm Cloud Eastern Bluestar	1 Gal.	Container	2' O.C	13
AST VWH	Astilbe chinensis 'Vision in White'	Vision in White Chinese Astilbe	1 Gal.	Container	1' O.C	26

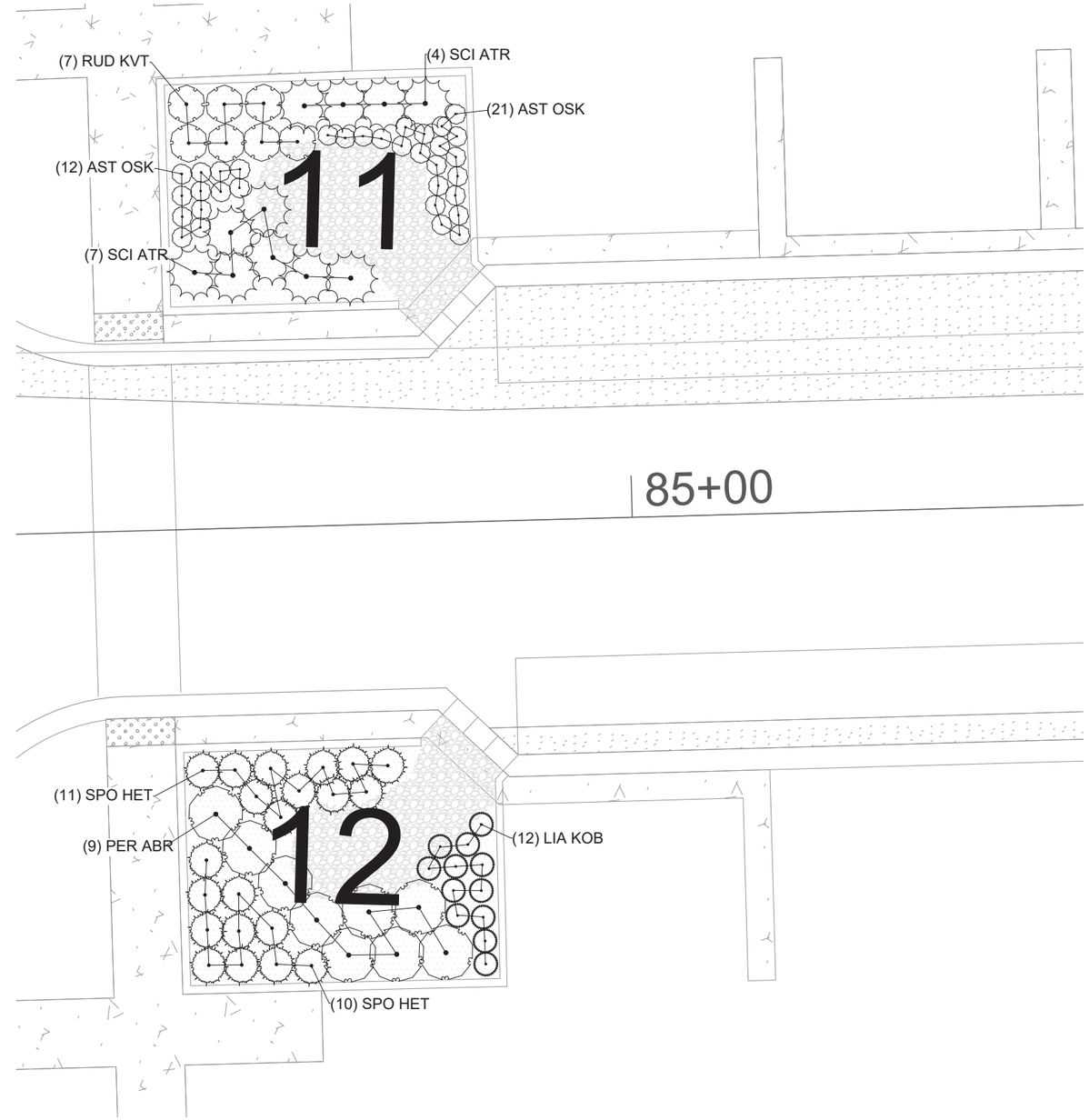


Plant Bed 10

BED 10						
Code	Botanical Name	Common Name	Size	Type	Spacing	Quantity
NATIVE GRASS						
SCH SCO	Schizachyrium scoparium 'The Blues'	The Blues Little Bluestem	1 Gal.	Container	1' O.C	36
RAIN GARDEN MIX						
DAL CAN	Dalea candida	White Prairie Clover	1 Gal.	Container	1' O.C	51
RAT PIN	Ratibida pinnata	Yellow Coneflower	1 Gal.	Container	1.5' O.C	34

BED 11						
Code	Botanical Name	Common Name	Size	Type	Spacing	Quantity
NATIVE GRASS						
SCI ATR	Scirpus atrovirens	Dark green Bulrush	1 Gal.	Container	2' O.C	11
RAIN GARDEN MIX						
AST OSK	Aster oblongifolius 'October Skies'	October Skies Fall Aster	1 Gal.	Container	1' O.C	33
RUD KVT	Rudbeckia fulgida 'Blovi'	Viette's Little Suzy Coneflower	1 Gal.	Container	1.5' O.C	7

BED 12						
Code	Botanical Name	Common Name	Size	Type	Spacing	Quantity
NATIVE GRASS						
SPO HET	Sporobolus heterolepis	Prairie Dropseed	1 Gal.	Container	2' O.C	21
RAIN GARDEN MIX						
LIA KOB	Liatris spicata 'Kobold'	Kobold Blazing Star	1 Gal.	Container	1' O.C	12
PER ABR	Perovskia atriplicifolia	Russian Sage	1 Gal.	Container	2' O.C	9



Plant Bed 11 and 12

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MODEL NAME LSP_09.15.25	PLOT SCALE: 1:50	CHECKED:	REVISED:
	PLOT DATE: 10/09/2025	DATE: 10/09/2025	REVISED:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

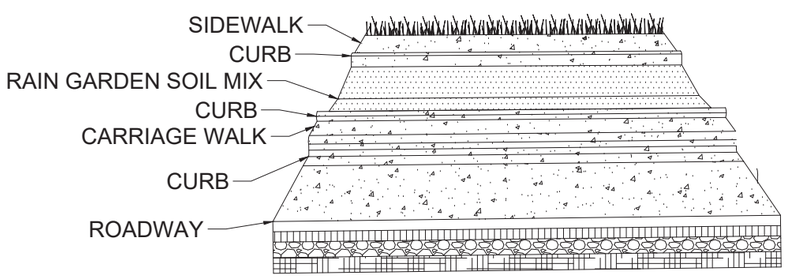
34TH STREET REHABILITATION

SCALE: 1:5 | SHEET 70 OF 95 SHEETS | STA: | TO STA:

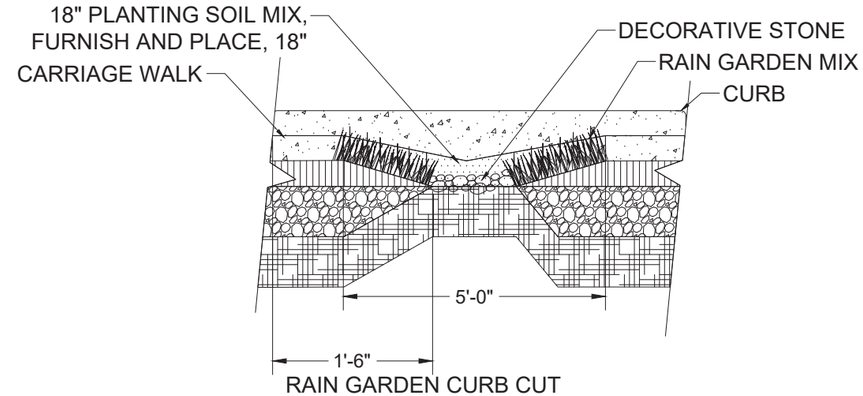
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	95	70

CONTRACT NO. 61M09

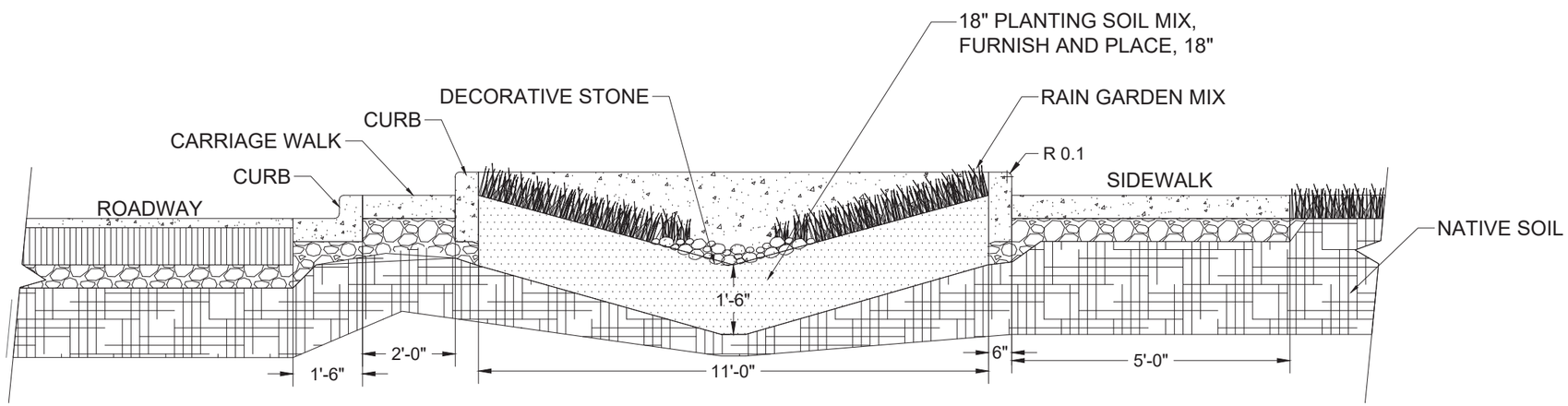
ILLINOIS FED. AID PROJECT



SECTION PERSPECTIVE
NTS



RAIN GARDEN CURB CUT
NTS



ROADWAY TO SIDEWALK SECTION WITH CARRIAGE WALK
NTS

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		DRAWN: EPS	REVISED:						3734	23-00177-00-PV	COOK	95	71
	PLOT SCALE: 1:50	CHECKED:	REVISED:						CONTRACT NO. 61M09				
	PLOT DATE: 10/09/2025	DATE: 10/09/2025	REVISED:		SCALE: NTS	SHEET 71	OF 95	SHEETS STA: TO STA:	ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	CC	CC
MASTER CONTROLLER	MC	MC
MASTER MASTER CONTROLLER	MMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	T	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	RR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P P	P P
SAMPLING (SYSTEM) DETECTOR	S S	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS IS	IS IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G Y G P	R Y G Y G P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G Y G P RB	R Y G Y G P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

TS SHT NO. 01

USER NAME = footemj	DESIGNED - IP	REVISED -
	DRAWN - IP	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - LP	REVISED -
PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	72
	TS-05	CONTRACT NO. 61M09		
		ILLINOIS	FED. AID PROJECT	

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.

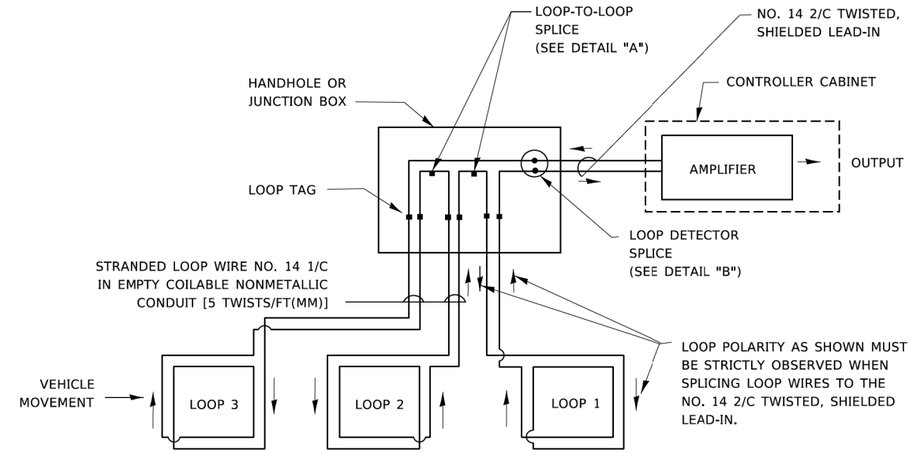
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR 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.

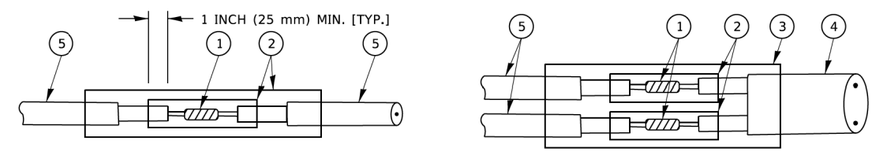
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

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

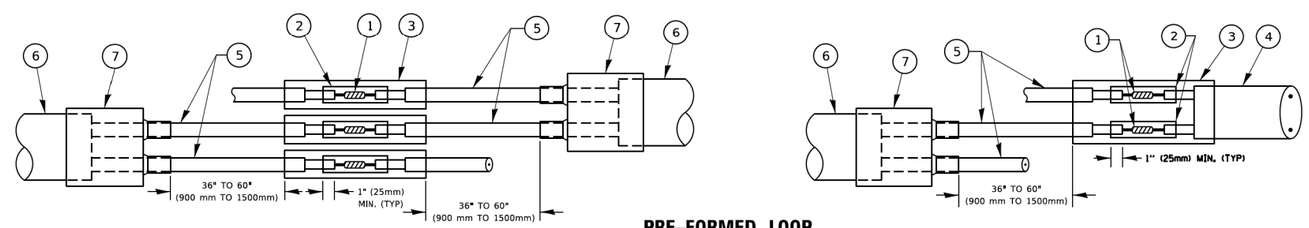
- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

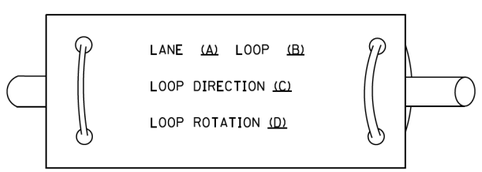


DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE–FORMED LOOP

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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.

LOOP DETECTOR SPLICE

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

TS SHT NO. 02

USER NAME = footemj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

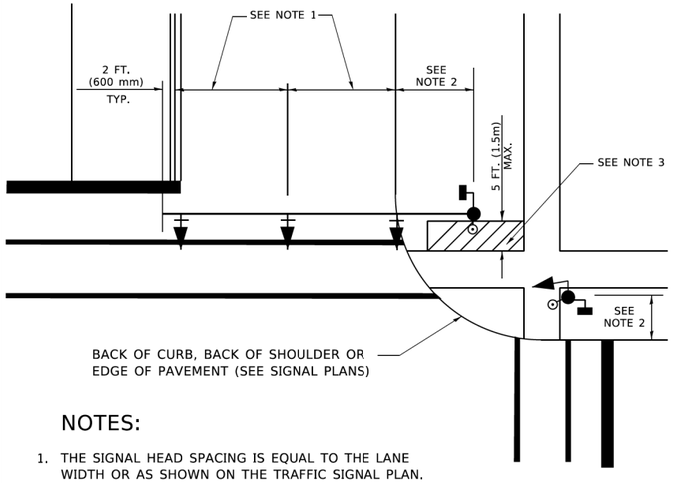
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 2 OF 7 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	73
	TS–05	CONTRACT NO. 61M09		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

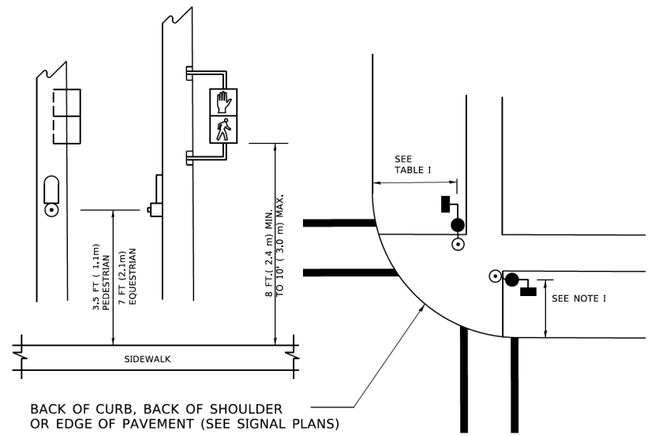
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

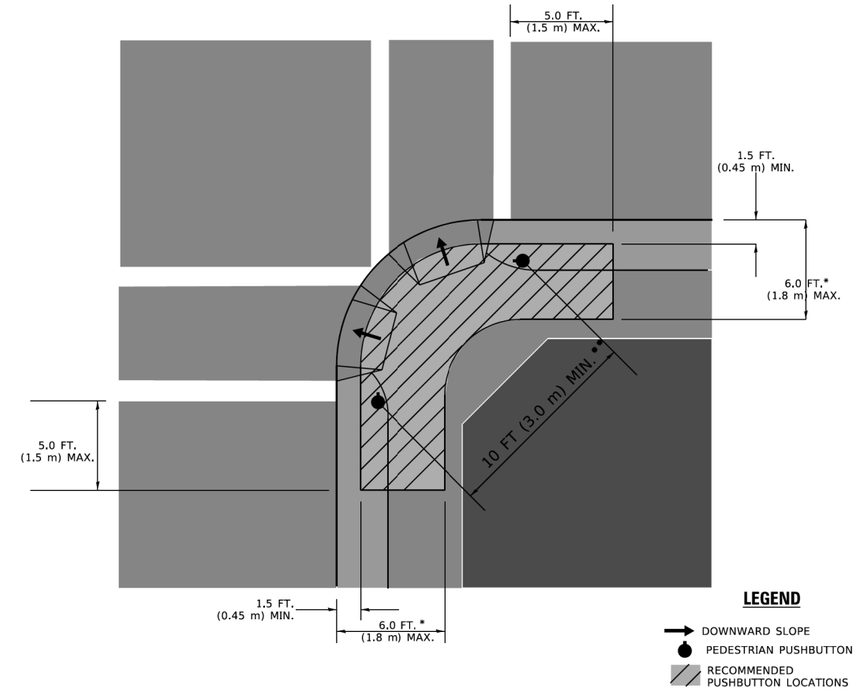
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

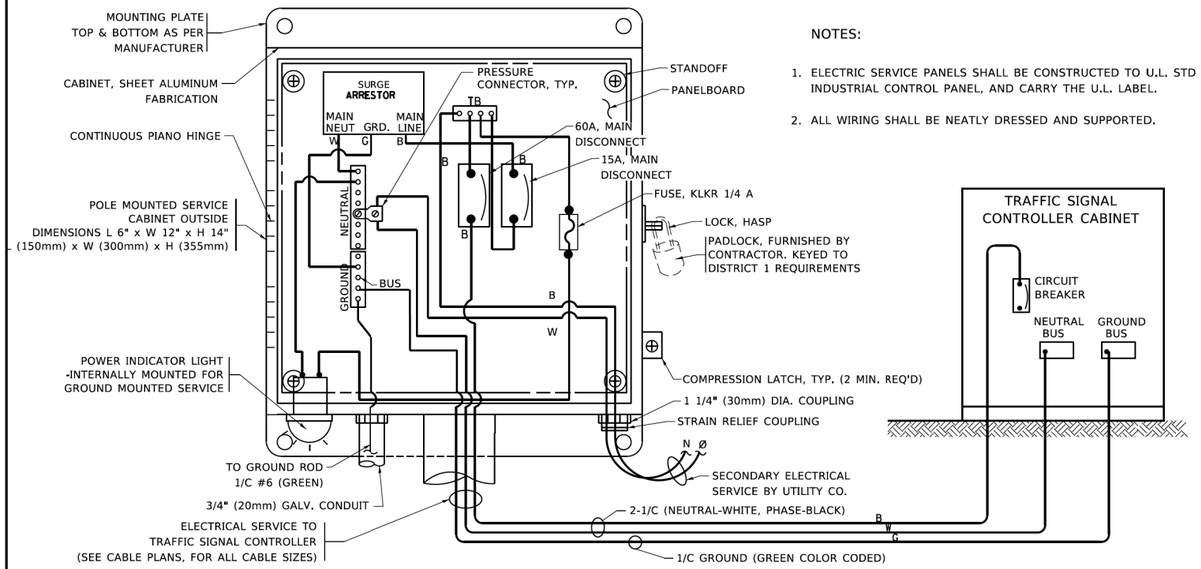
TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

TS SHT NO. 03



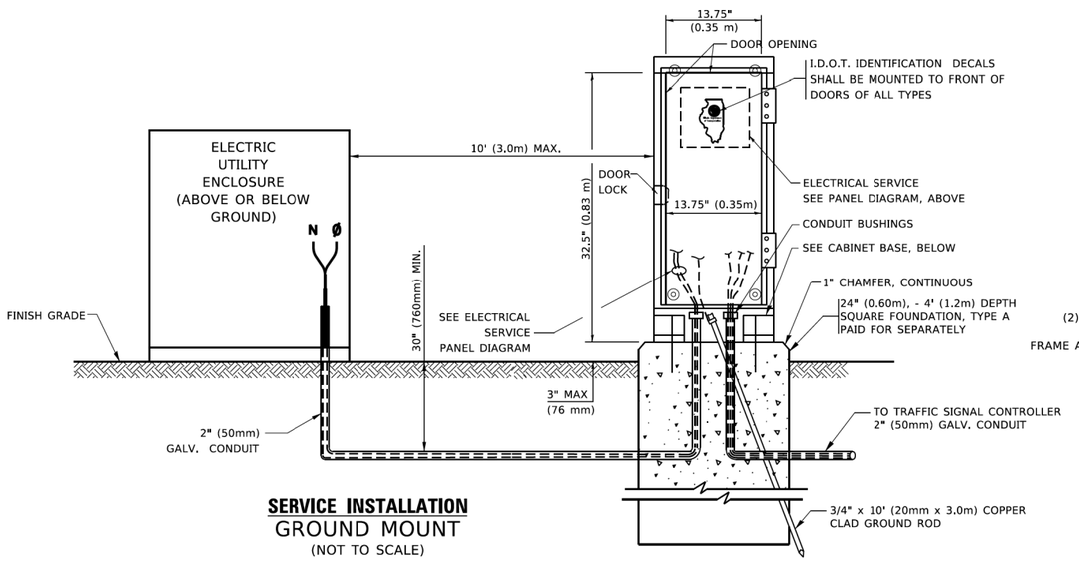
NOTES:

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.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

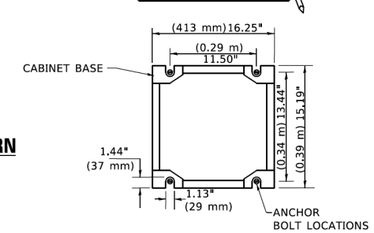
(NOT TO SCALE)



SERVICE INSTALLATION

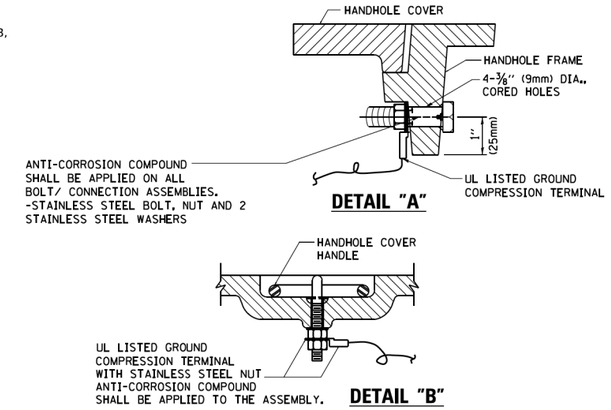
GROUND MOUNT

(NOT TO SCALE)



CABINET – BASE BOLT PATTERN

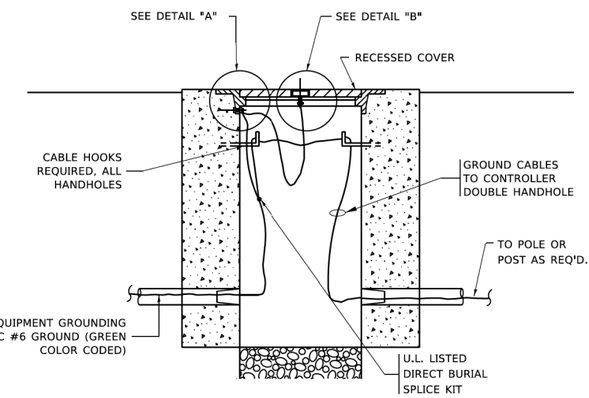
(NOT TO SCALE)



NOTES:

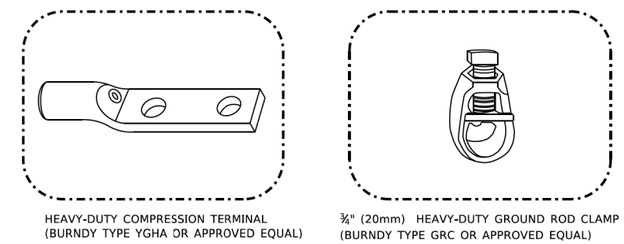
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN 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.



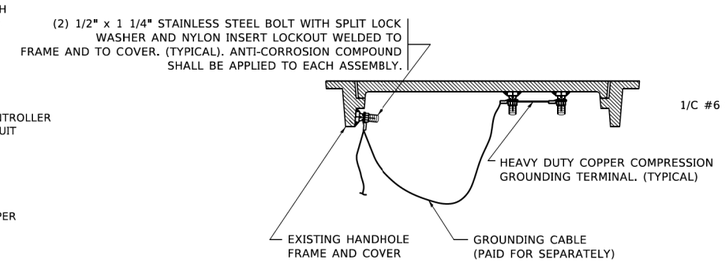
HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



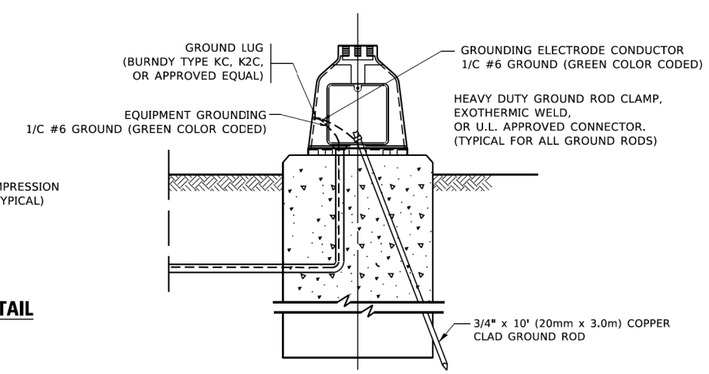
NOTES:

- 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.



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE /POST–GROUNDING DETAIL

(NOT TO SCALE)

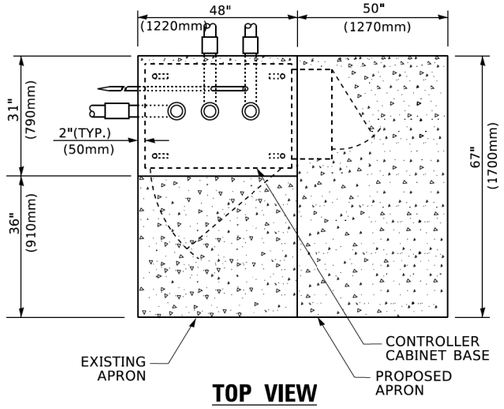
TS SHT NO. 04

USER NAME = footemj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

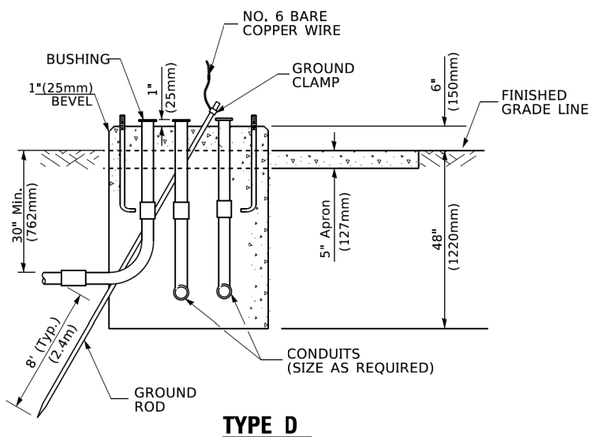
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 4 OF 7 SHEETS | STA. TO STA.

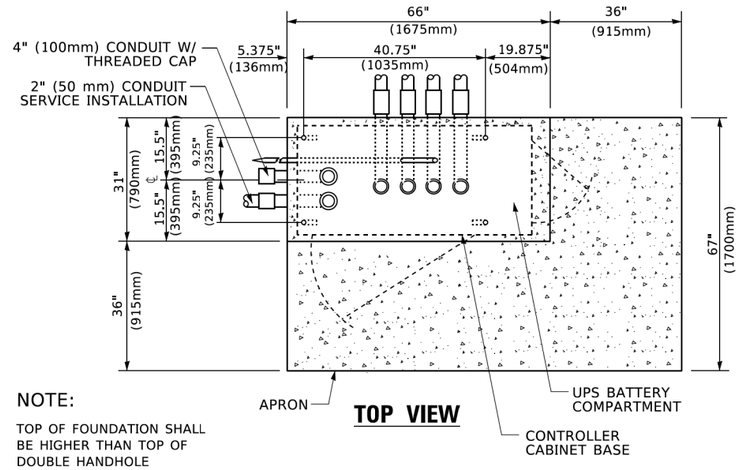
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	75
	TS–05	CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		



TOP VIEW



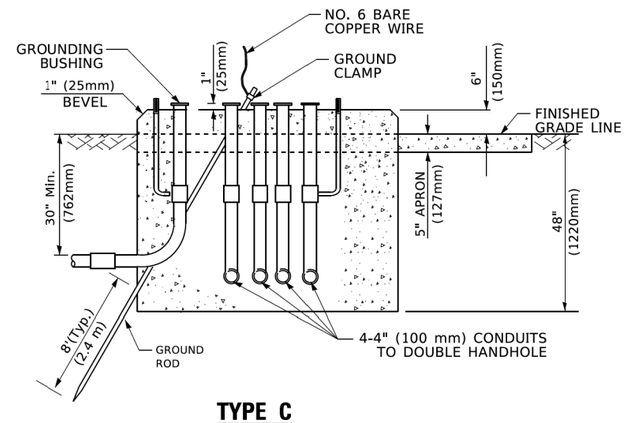
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



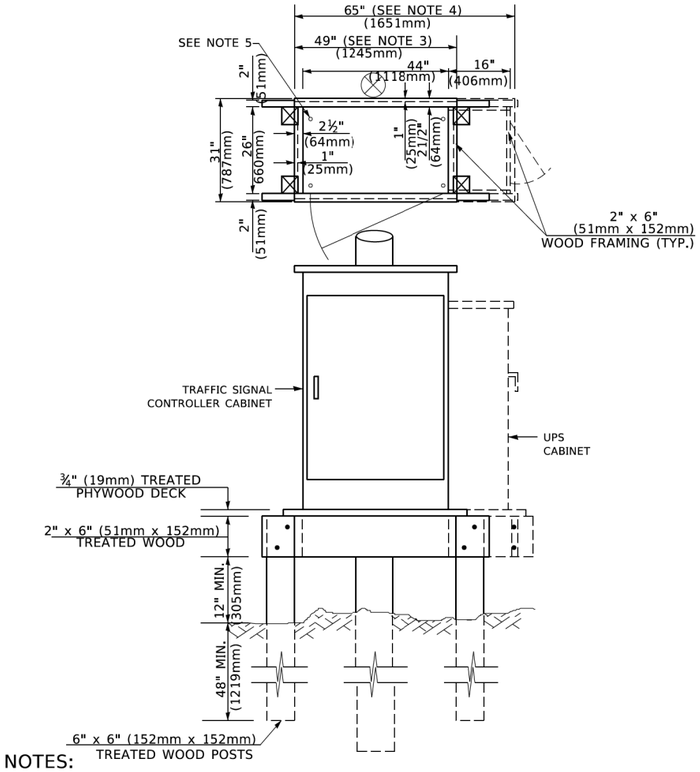
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

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)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

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

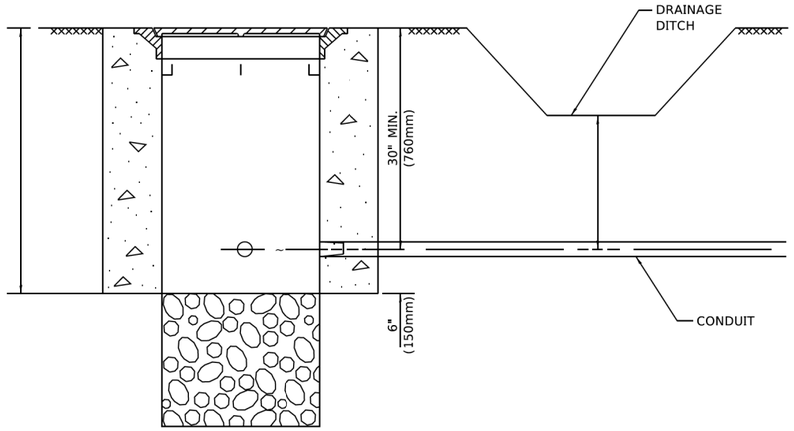
TS SHT NO. 05

USER NAME = footemj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 5 OF 7 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	76
	TS-05	CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		

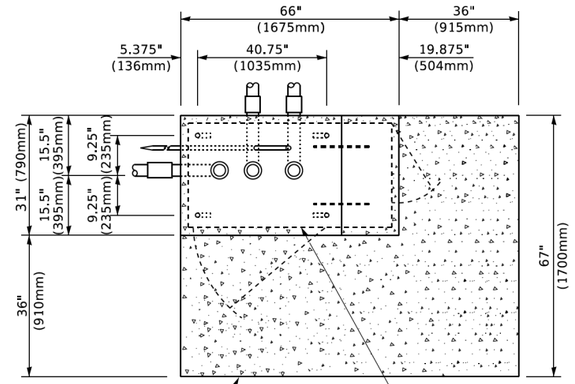


NOTES:

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

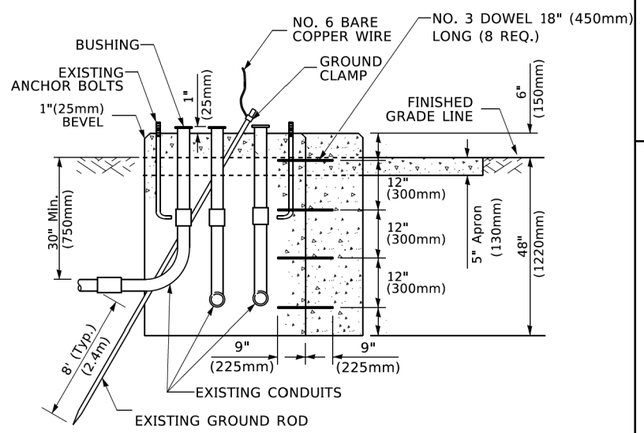
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



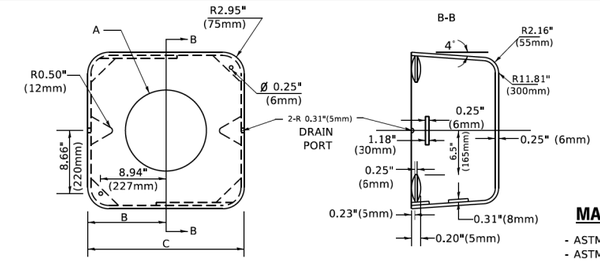
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL

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

A	B	C	HEIGHT	WEIGHT
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)

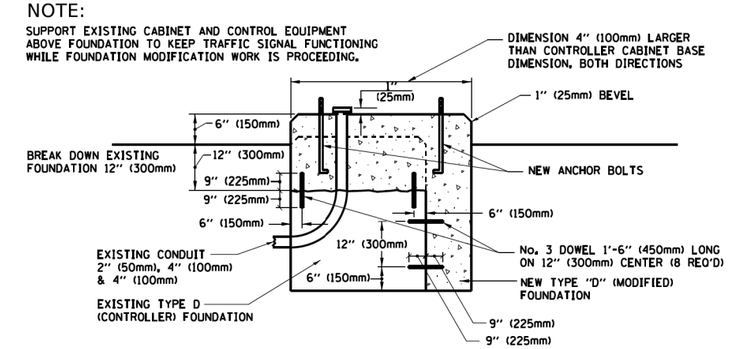
SHROUD

NOTES:

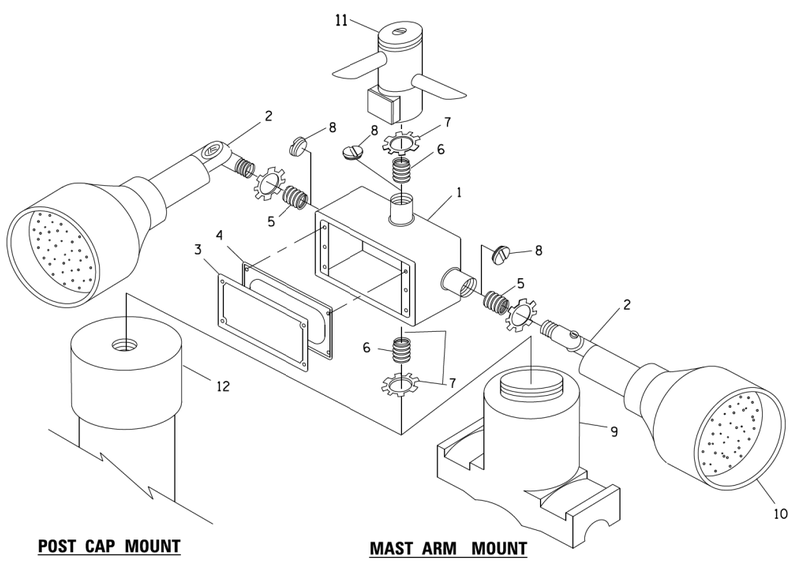
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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



POST CAP MOUNT

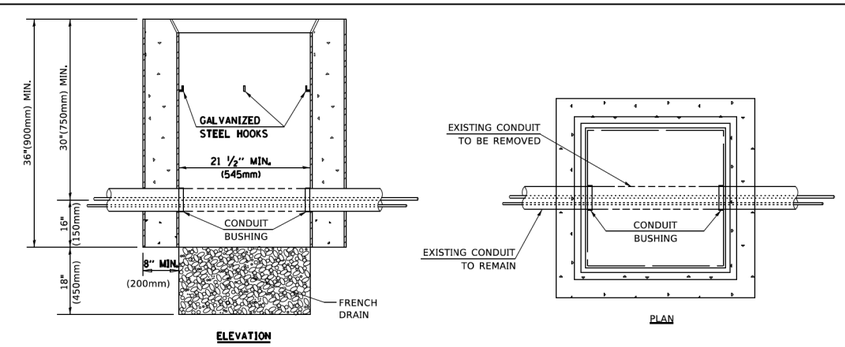
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

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



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 06

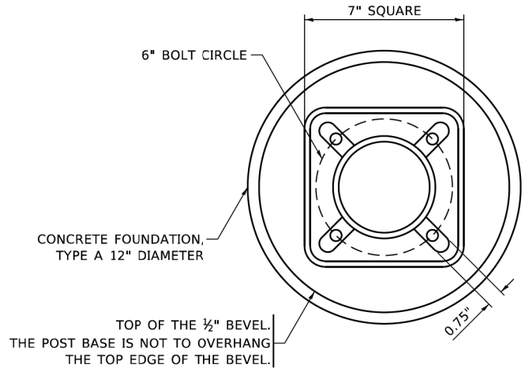
USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 6 OF 7 SHEETS | STA. TO STA.

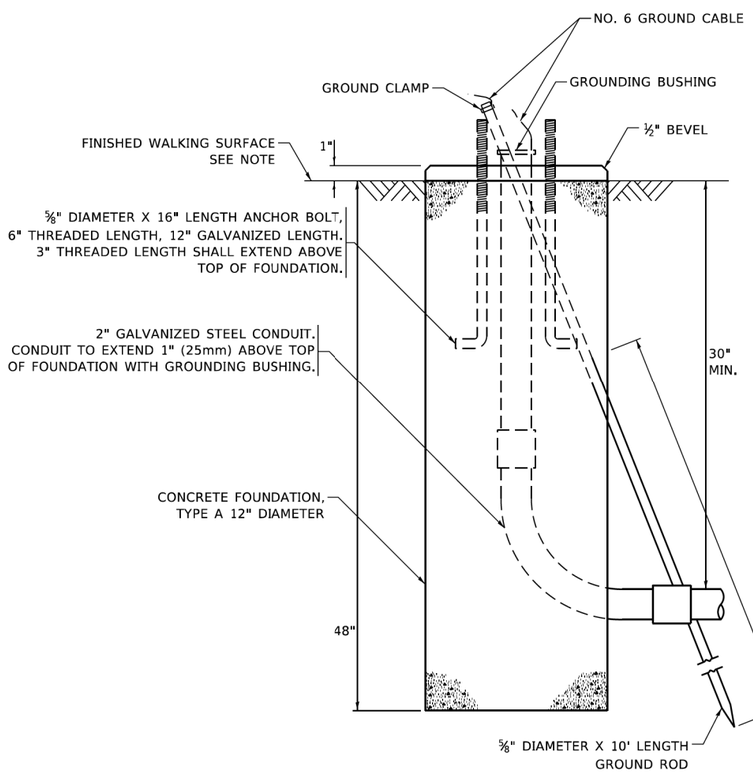
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	77
	TS-05	CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		



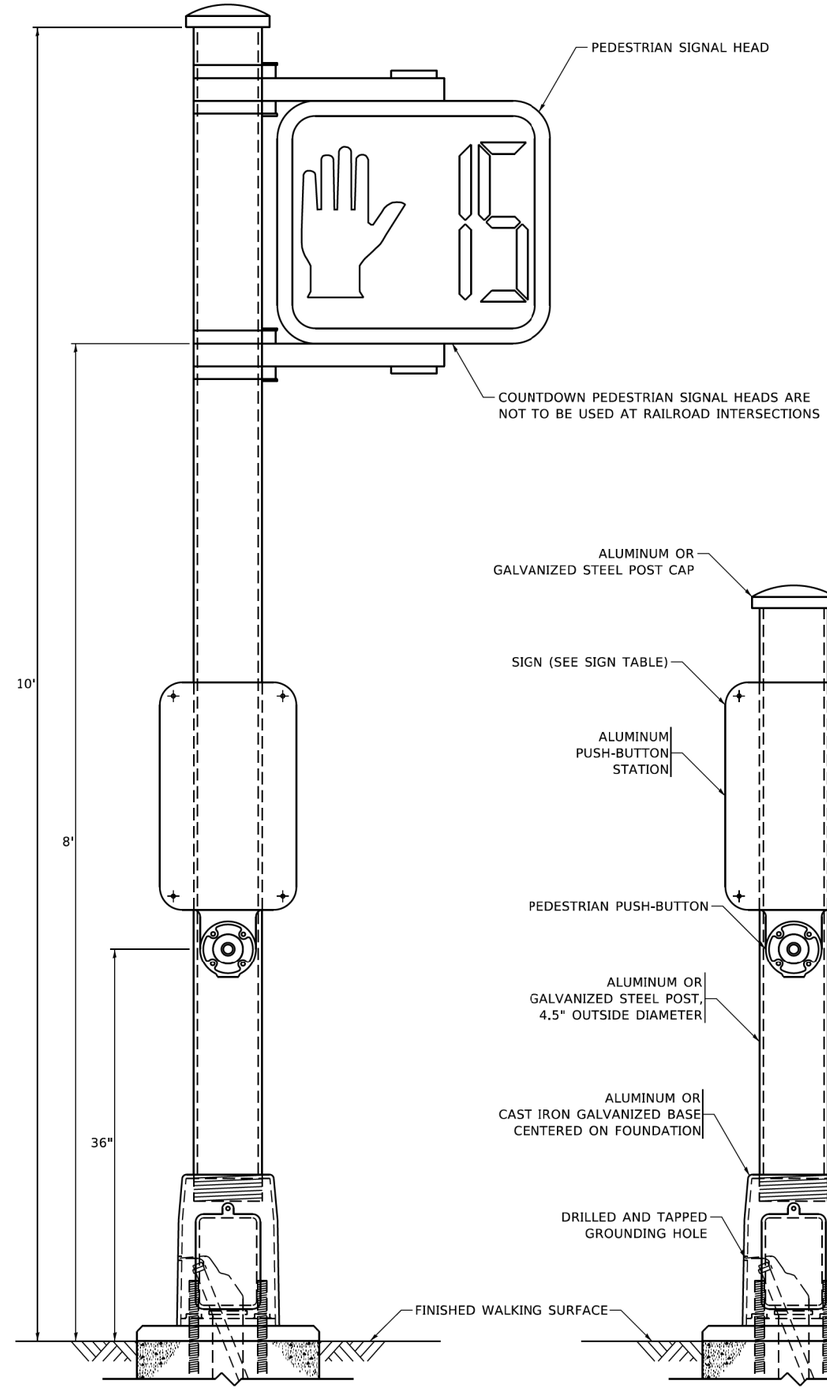
BOLT PATTERN

NOTE:

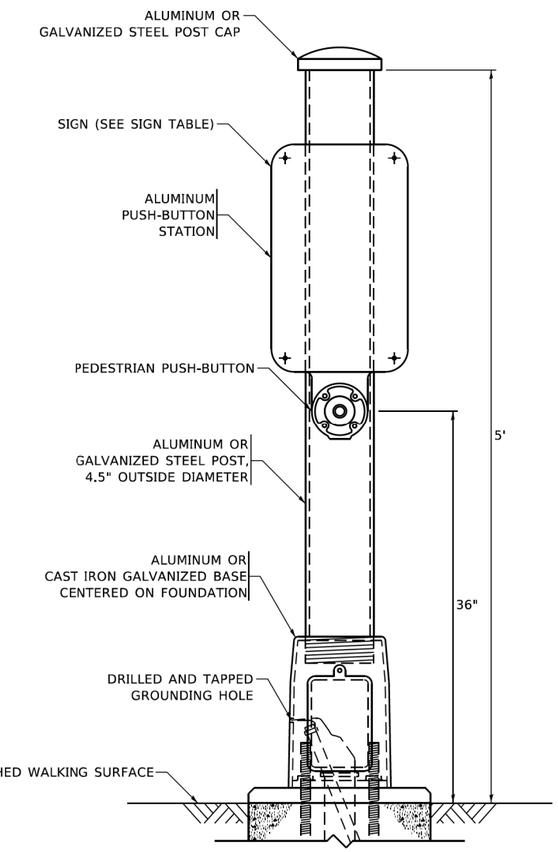
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12–INCH DIAMETER



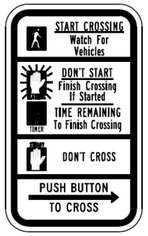
PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.

R10–3b

R10–3d



R10–3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

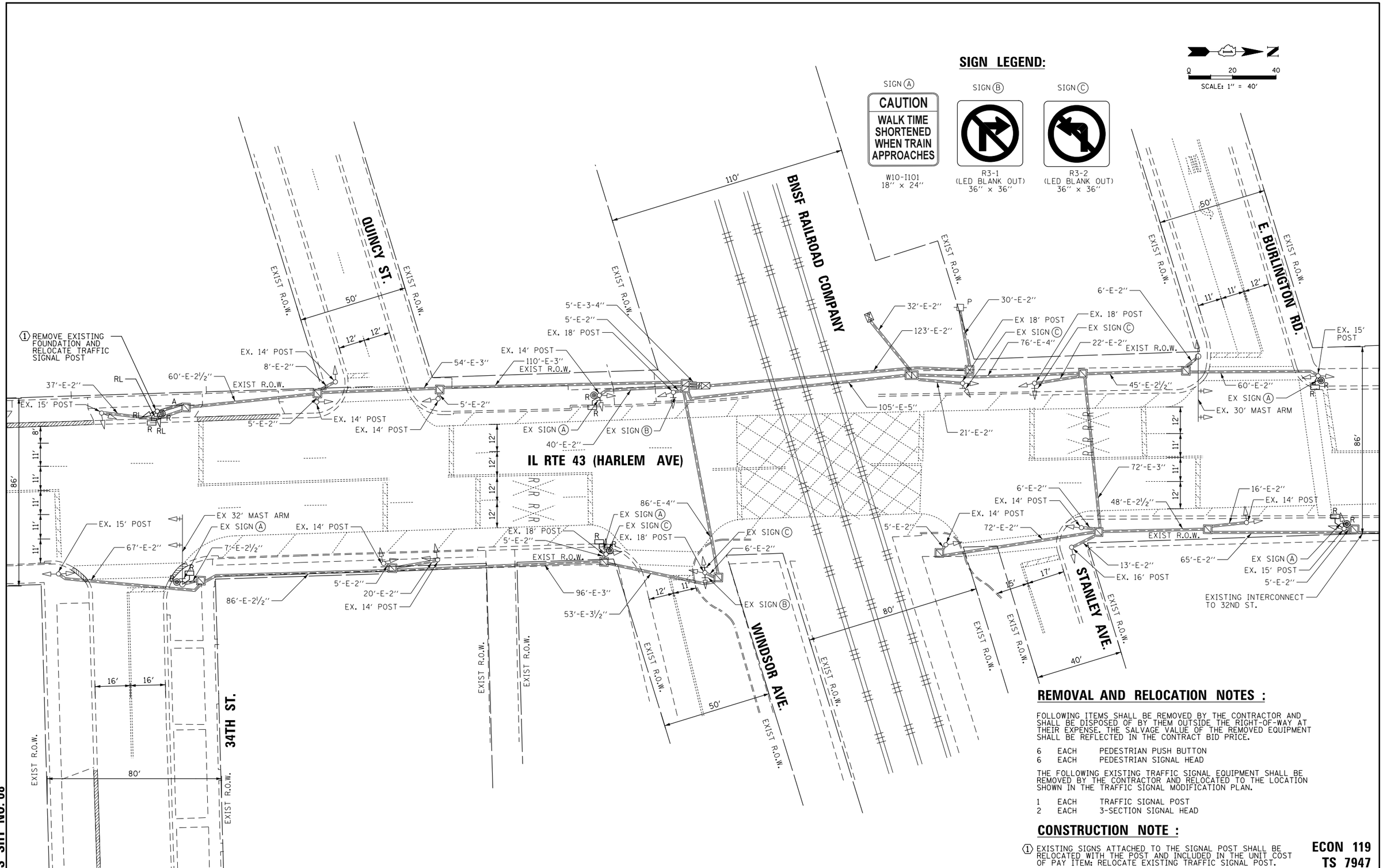
TS SHT NO. 07

USER NAME = gaglianobt	DESIGNED - IP	REVISED - 10-15-2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - IP	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -	
PLOT DATE = 11/23/2020	DATE - 10-15-2018	REVISED -	

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 7 OF 7 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	78
	TS–05	CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		



REMOVAL AND RELOCATION NOTES :

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.

6 EACH PEDESTRIAN PUSH BUTTON
6 EACH PEDESTRIAN SIGNAL HEAD

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE LOCATION SHOWN IN THE TRAFFIC SIGNAL MODIFICATION PLAN.

1 EACH TRAFFIC SIGNAL POST
2 EACH 3-SECTION SIGNAL HEAD

CONSTRUCTION NOTE :

(1) EXISTING SIGNS ATTACHED TO THE SIGNAL POST SHALL BE RELOCATED WITH THE POST AND INCLUDED IN THE UNIT COST OF PAY ITEM: RELOCATE EXISTING TRAFFIC SIGNAL POST.

ECON 119
TS 7947

TS SHT NO. 08

PLAN — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RL'S & INVERTS CHECKED / CADD FILE NAME ___ — BY — DATE

PROFILE — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / GRADES CHECKED / CADD FILE NAME ___ / STRUCTURE NOTAT'NS CH'KD — BY — DATE

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9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

FILE NAME = N:\BERWYN\220369.02\Traffic\08_SIG_220369.dgn	USER NAME = mthomas	DESIGNED - XXX	REVISED - ___
		DRAWN - XXX	REVISED - ___
	PLOT SCALE = 40'	CHECKED - XXX	REVISED - ___
	PLOT DATE = 11/10/2025	DATE - _____	REVISED - ___

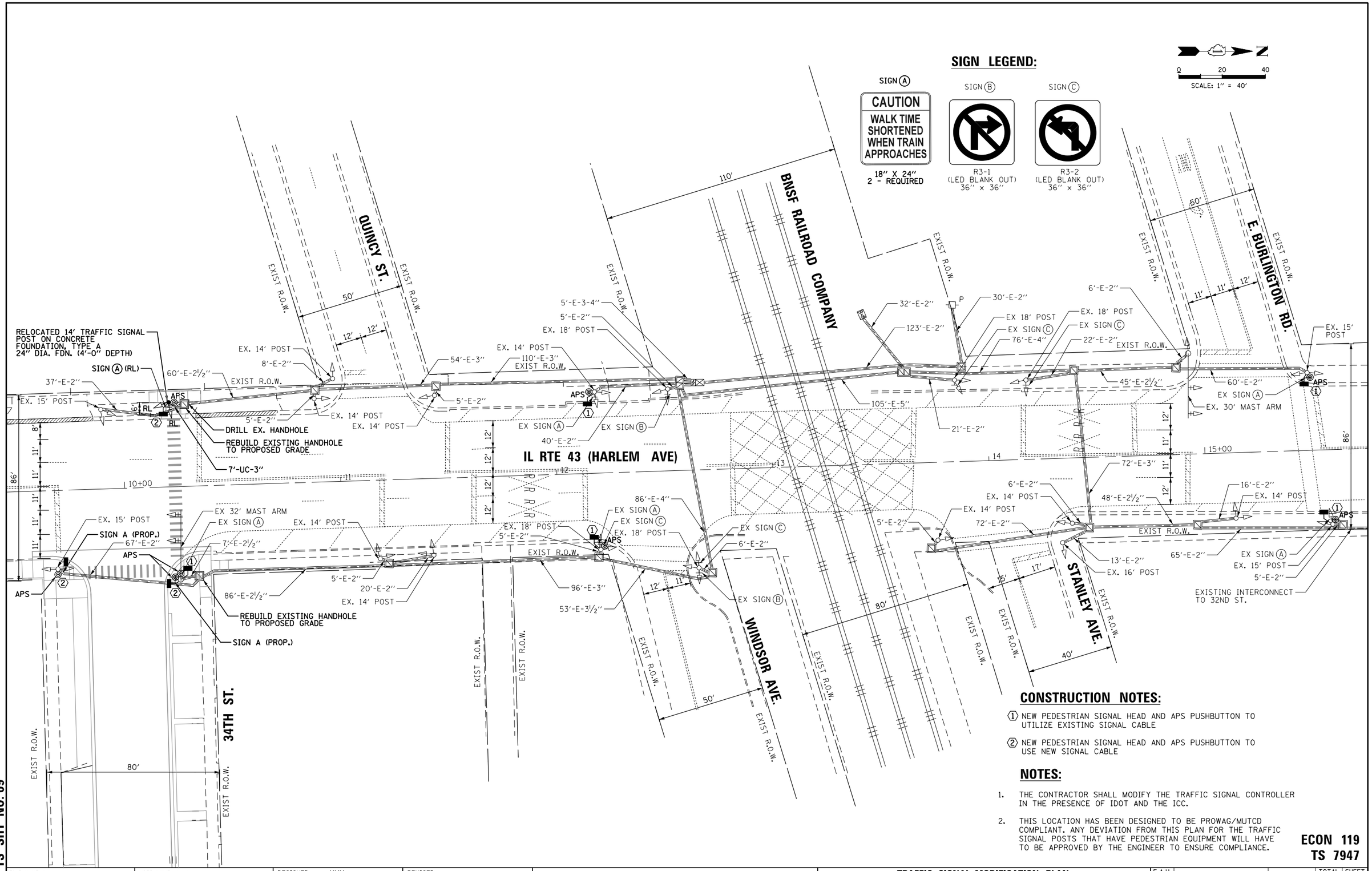
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
ILLINOIS ROUTE 43 (HARLEM AVENUE) FROM 34TH STREET TO EAST BURLINGTON ROAD

SCALE: 1" = 40' | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	79
		CONTRACT NO. 61M09		

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



CONSTRUCTION NOTES:

(1) NEW PEDESTRIAN SIGNAL HEAD AND APS PUSHBUTTON TO UTILIZE EXISTING SIGNAL CABLE

(2) NEW PEDESTRIAN SIGNAL HEAD AND APS PUSHBUTTON TO USE NEW SIGNAL CABLE

NOTES:

1. THE CONTRACTOR SHALL MODIFY THE TRAFFIC SIGNAL CONTROLLER IN THE PRESENCE OF IDOT AND THE ICC.

2. THIS LOCATION HAS BEEN DESIGNED TO BE PROWAG/MUTCD COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE TRAFFIC SIGNAL POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE COMPLIANCE.

ECON 119
TS 7947

TS SHT NO. 09

PLAN			BY	DATE
NOTE BOOK NO. ____	SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. PLAT CHECKED / CADD FILE NAME ____			

PROFILE			BY	DATE
NOTE BOOK NO. ____	SURVEYED / PLOTTED / GRADES CHECKED / B.M. & CONTROL / STRUCTURE NOTAT'NS CHKD			

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Rosemont, Illinois 60018
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FILE NAME = N:\BERWYN\220369.02\Traffic\08_SIG_220369.dgn	USER NAME = mthomas	DESIGNED - XXX	REVISED - ___
		DRAWN - XXX	REVISED - ___
	PLOT SCALE = 40'	CHECKED - XXX	REVISED - ___
	PLOT DATE = 11/10/2025	DATE - _____	REVISED - ___

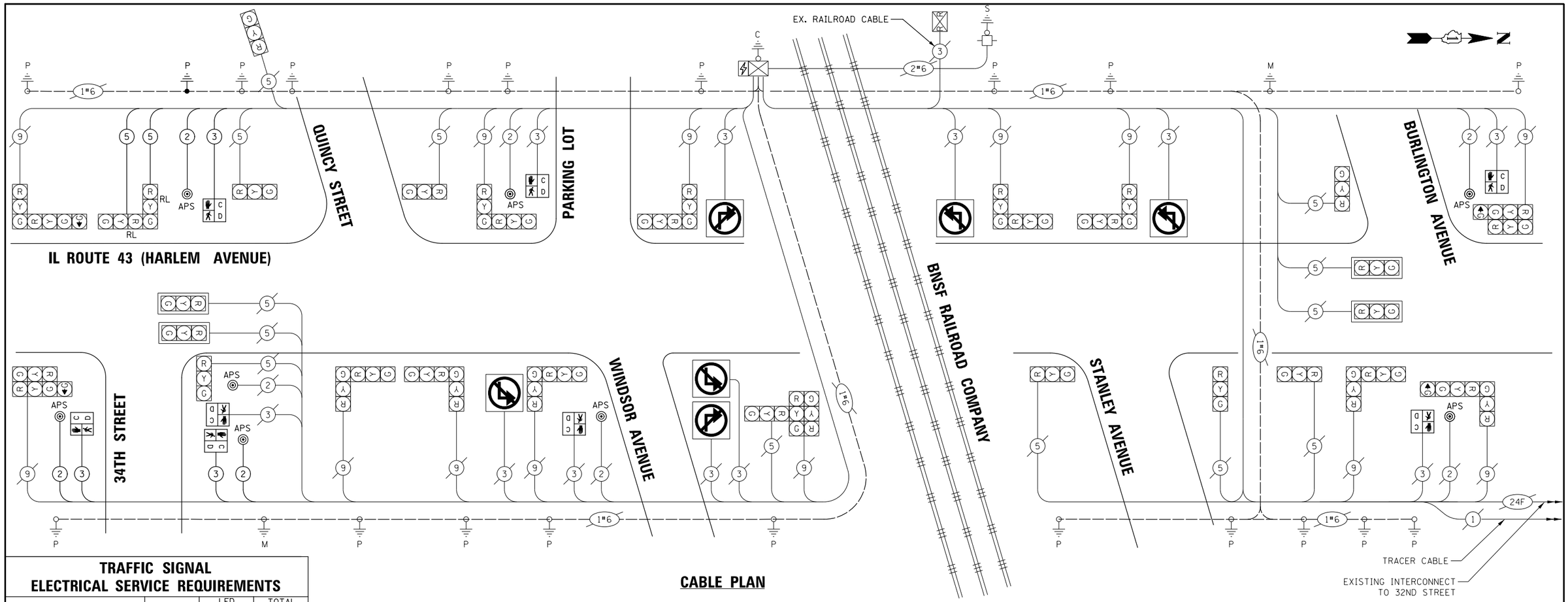
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
ILLINOIS ROUTE 43 (HARLEM AVENUE) FROM 34TH STREET TO EAST BURLINGTON ROAD

SCALE: 1" = 40' | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	80
		CONTRACT NO. 61M09		

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



CABLE PLAN

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
3-SECTION	37	11	407
4-SECTION	4	14	56
5-SECTION	-	13	-
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	-	20	-
NETWORK SWITCH II OR III	-	25	-
BLANK-OUT SIGN	6	35	210
CELLULAR MODEM	-	15	-
TOTAL SERVICE WIRE SIZING			**968**
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
PTZ CAMERA	-	75	-
TOTAL SERVICE WIRE SIZING			**1573**

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY: CONTACT: -
PHONE: -
COMPANY: COMED
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	6
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	7
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1119
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1140
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	582
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	18
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
RELOCATE EXISTING SIGNAL HEAD	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	904
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

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PLAN — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / ALIGNMENT CHECKED / PLAN NOTES CHECKED / CADD FILE NAME ___ — BY — DATE

PROFILE — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / GRADES CHECKED / BLA CHECKED / STRUCTURE NOTATNS CHK'D — BY — DATE

TS SHT NO. 10

ECON 119
TS 7947

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		DRAWN - XXX	REVISED - ___
	PLOT SCALE = 40'	CHECKED - XXX	REVISED - ___
	PLOT DATE = 11/10/2025	DATE - _____	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 43 (HARLEM AVENUE) FROM 34TH STREET TO EAST BURLINGTON ROAD

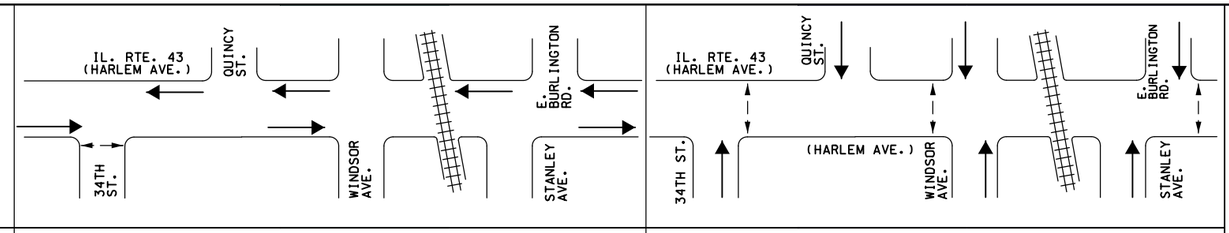
SCALE: 1" = 40' | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	81

CONTRACT NO. 61M09

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

SEQUENCE OF OPERATION



MOVEMENT																		FLASH
PHASE		1											2					
INTERVAL		1	2	3A	3B	3C	3D	3E	3F	3G	3H	3J	3K	4	5	6A	6B	
CHANGE TO				2												1		
IL RTE 43 (HARLEM AVE) AT E. BURLINGTON AVE. ALL SIGNALS	S/B	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL RTE 43 (HARLEM AVE) AT E. BURLINGTON AVE. ALL SIGNALS	N/B	G	G	G	G	G ←G	G ←G	G ←G	G ←G	G ←G	G ←G	Y	R	R	R	R	R	R
IL RTE 43 (HARLEM AVE) AT STANLEY AVE. ALL SIGNALS	S/B	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
IL RTE 43 (HARLEM AVE) AT STANLEY AVE. ALL SIGNALS	N/B	G	G	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R
IL RTE 43 (HARLEM AVE) AT WINDSOR AVE. ALL SIGNALS	S/B	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R
IL RTE 43 (HARLEM AVE) AT WINDSOR AVE. ALL SIGNALS	N/B	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R
IL RTE 43 (HARLEM AVE) AT QUINCY ST. ALL SIGNALS	S/B	G	G	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R
IL RTE 43 (HARLEM AVE) AT QUINCY ST. ALL SIGNALS	N/B	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
IL RTE 43 (HARLEM AVE) AT 34TH ST. ALL SIGNALS	S/B	G	G	G	G	G ←G	G ←G	G ←G	G ←G	G ←G	G ←G	Y	R	R	R	R	R	R
IL RTE 43 (HARLEM AVE) AT 34TH ST. ALL SIGNALS	N/B	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
E. BURLINGTON AVE. ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
STANLEY AVE. ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
WINDSOR AVE. ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
WINDSOR AVE. ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
QUINCY ST. ALL SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
34TH ST. ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING 34TH ST. ON EAST SIDE OF IL RTE 43 (HARLEM AVE)		*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	D
PEDESTRIAN SIGNALS CROSSING IL RTE 43 (HARLEM AVE) ON NORTH SIDE OF 34TH ST.		H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	A
PEDESTRIAN SIGNALS CROSSING IL RTE 43 (HARLEM AVE) ON SOUTH SIDE OF WINDSOR AVE.		H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	R
PEDESTRIAN SIGNALS CROSSING IL RTE 43 (HARLEM AVE) ON NORTH SIDE OF BURLINGTON AVE.		H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	K

PHASE 1 SHALL BE PLACED ON RECALL

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** FLASHING "✋" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

θ THIS "🚶" OR FLASHING "✋" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE OR FLASHING "✋" INTERVALS.

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

"🚶" AND FLASHING "✋" TIMINGS TO BE SET ONLY ON PHASES WHERE "🚶" AND FLASHING "✋" ARE INDICATED IN THE SEQUENCE OF OPERATION.

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PLAN — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME ___ — BY — DATE

PROFILE — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / GRADES CHECKED / VERT. SCALE ___ / STRUCTURE NOTAT'NS CH'KD — BY — DATE

TS SHT NO. 11

ECON 119
TS 7947

FILE NAME = N:\BERWYN\220369.02\Traffic\10_SEQ1_220369.dgn	USER NAME = mthomas	DESIGNED - XXX	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SEQUENCE OF OPERATION ILLINOIS ROUTE 43 (HARLEM AVENUE) FROM 34TH STREET TO EAST BURLINGTON ROAD	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - XXX	REVISED - ___			3734	23-00177-00-PV	COOK	97	82
	PLOT SCALE = 40'	CHECKED - XXX	REVISED - ___					CONTRACT NO. 61M09		
	PLOT DATE = 11/10/2025	DATE - _____	REVISED - ___		SCALE: 1" = 40' SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

RAILROAD PREEMPTION SEQUENCE OF OPERATION

						PREEMPTOR NUMBER 2						
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		4								
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	2	3	4	5	6	7	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	2	3	4	5	6	7		
IL RTE 43 (HARLEM AVE) AT E. BURLINGTON AVE. ALL SIGNALS	S/B	Y	R	R	R	R	R	R	R	R	R	Δ
IL RTE 43 (HARLEM AVE) AT E. BURLINGTON AVE. ALL SIGNALS	N/B	G	G	R	R	G ← G	G ← G	G ← G	Y	R	R	Δ
IL RTE 43 (HARLEM AVE) AT STANLEY AVE. ALL SIGNALS	S/B	Y	R	R	R	R	R	R	R	R	R	Δ
IL RTE 43 (HARLEM AVE) AT STANLEY AVE. ALL SIGNALS	N/B	G	G	R	R	G	Y	R	R	R	R	Δ
IL RTE 43 (HARLEM AVE) AT WINDSOR AVE. ALL SIGNALS	S/B	G	G	R	R	G	Y	R	R	R	R	Δ
IL RTE 43 (HARLEM AVE) AT WINDSOR AVE. ALL SIGNALS	N/B	Y	R	R	R	R	R	R	R	R	R	Δ
IL RTE 43 (HARLEM AVE) AT QUINCY ST. ALL SIGNALS	S/B	G	G	R	R	G	G	G	Y	R	R	Δ
IL RTE 43 (HARLEM AVE) AT QUINCY ST. ALL SIGNALS	N/B	Y	R	R	R	R	R	R	R	R	R	Δ
IL RTE 43 (HARLEM AVE) AT 34TH ST. ALL SIGNALS	S/B	G	G	R	R	G ← G	G ← G	G ← G	Y	R	R	Δ
IL RTE 43 (HARLEM AVE) AT 34TH ST. ALL SIGNALS	N/B	Y	R	R	R	R	R	R	R	R	R	Δ
E. BURLINGTON AVE. ALL SIGNALS	E/B	R	R	Y	R	R	R	R	R	R	G	Δ
STANLEY AVE. ALL SIGNALS	W/B	R	R	Y	R	R	R	R	R	R	G	Δ
WINDSOR AVE. ALL SIGNALS	E/B	R	R	Y	R	R	R	R	R	R	G	Δ
WINDSOR AVE. ALL SIGNALS	W/B	R	R	Y	R	R	R	R	R	R	G	Δ
QUINCY ST. ALL SIGNALS	E/B	R	R	Y	R	R	R	R	R	R	G	Δ
34TH ST. ALL SIGNALS	W/B	R	R	Y	R	R	R	R	R	R	G	Δ
PEDESTRIAN SIGNALS CROSSING 34TH ST. ON EAST SIDE OF IL RTE 43 (HARLEM AVE)		FH	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING IL RTE 43 (HARLEM AVE) ON NORTH SIDE OF 34TH ST.		H	H	FH	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING IL RTE 43 (HARLEM AVE) ON SOUTH SIDE OF WINDSOR AVE.		H	H	FH	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING IL RTE 43 (HARLEM AVE) ON NORTH SIDE OF BURLINGTON AVE.		H	H	FH	H	H	H	H	H	H	H	Δ
INTERNALLY ILLUMINATED SIGNS NO RIGHT TURN SIGNS		NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	Δ
INTERNALLY ILLUMINATED SIGNS NO LEFT TURN SIGNS		NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	Δ
											HOLD	

NRT = "NO RIGHT TURN" OR

NLT = "NO LEFT TURN" OR

Δ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 7 IS TERMINATED.

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
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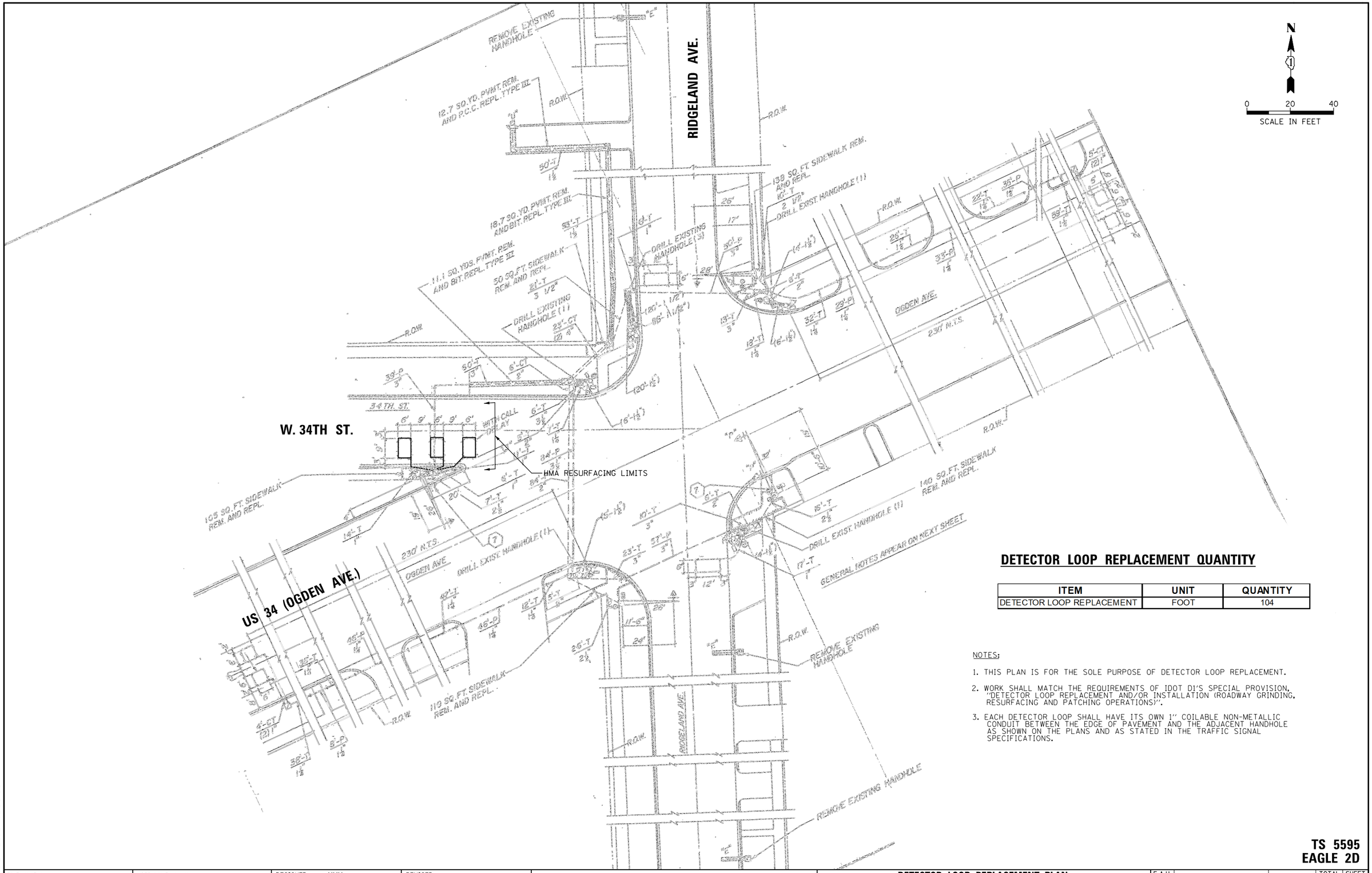
PROFILE — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / GRADES CHECKED / RLS OR IPE CHECKED / STRUCTURE NOTAT'NS CH'KD — BY — DATE

TS SHT NO. 12

ECON 119
TS 7947

FILE NAME = N:\BERWYN\220369.02\Traffic\11_SEQ2_220369.dgn	USER NAME = mthomas	DESIGNED - XXX	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAILROAD PREMPTION SEQUENCE OF OPERATION ILLINOIS ROUTE 43 (HARLEM AVENUE) FROM 34TH STREET TO EAST BURLINGTON ROAD	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - XXX	REVISED - ___			3734	23-00177-00-PV	COOK	97	83
	PLOT SCALE = 40'	CHECKED - XXX	REVISED - ___					CONTRACT NO. 61M09		
	PLOT DATE = 11/10/2025	DATE - _____	REVISED - ___		SCALE: 1" = 40' SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



DETECTOR LOOP REPLACEMENT QUANTITY

ITEM	UNIT	QUANTITY
DETECTOR LOOP REPLACEMENT	FOOT	104

NOTES:

1. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.
2. WORK SHALL MATCH THE REQUIREMENTS OF IDOT D1'S SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS)".
3. 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.

TS 5595
EAGLE 2D

FILE NAME =	USER NAME = mthomas	DESIGNED - XXX	REVISED - ___
N:\BERWYN\220369.02\Traffic\12_34th St at Ogden Ave & Ridgeland Ave_Det Loop Replacement.dgn		DRAWN - XXX	REVISED - ___
	PLOT SCALE = 40'	CHECKED - XXX	REVISED - ___
	PLOT DATE = 11/10/2025	DATE - _____	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
34TH STREET AT OGDEN AVENUE AND RIDGELAND AVENUE
BERWYN, ILLINOIS

SCALE: 1" = 40' | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	84
		CONTRACT NO. 61M09		

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

PLAN
NOTE BOOK NO. ____
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.O.W. MONUMENTS CHECKED
CADD FILE NAME ____
BY | DATE

PROFILE
NOTE BOOK NO. ____
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
STRUCTURE NOTATIONS CHKD
BY | DATE

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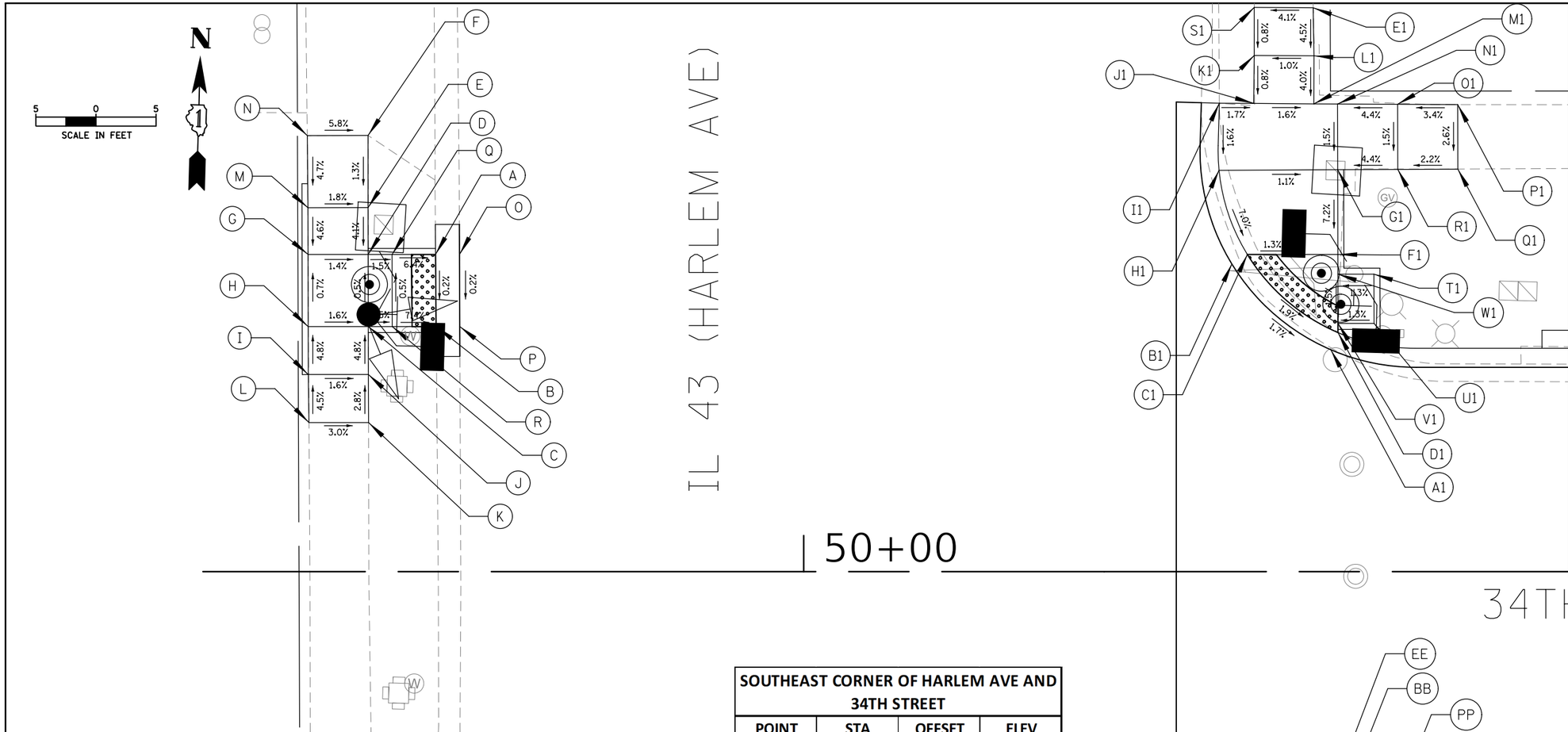
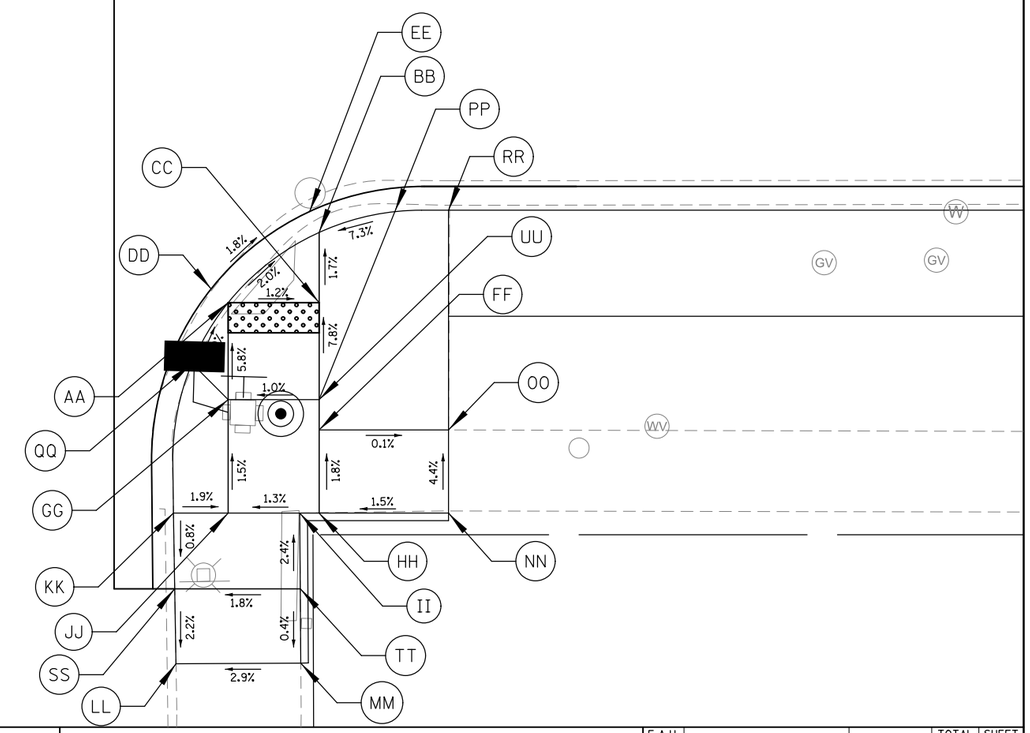
TS SHT NO. 13



NORTHEAST CORNER OF HARLEM AVE AND 34TH STREET			
POINT	STA	OFFSET	ELEV
A1	50+43.87	18.47' LT	609.16
B1	50+35.63	25.61' LT	609.35
C1	50+36.92	26.40' LT	609.35
D1	50+44.47	19.90' LT	609.16
E1	50+42.40	46.93' LT	610.17
F1	50+44.46	26.40' LT	609.25
G1	50+44.44	33.45' LT	609.76
H1	50+34.57	33.40' LT	609.87
I1	50+34.59	38.98' LT	609.96
J1	50+37.47	38.96' LT	609.91
K1	50+37.49	42.96' LT	609.94
L1	50+42.47	42.93' LT	609.99
M1	50+42.45	38.93' LT	609.83
N1	50+44.43	38.92' LT	609.84
O1	50+49.43	38.89' LT	610.06
P1	50+54.43	38.87' LT	610.23
Q1	50+54.44	33.50' LT	610.09
R1	50+49.44	33.47' LT	609.98
S1	50+37.49	46.96' LT	609.97
T1	50+47.46	24.76' LT	609.27
U1	50+47.47	20.66' LT	609.21
V1	50+44.47	20.66' LT	609.17
W1	50+44.46	24.76' LT	609.23

NORTHWEST CORNER OF HARLEM AVE AND 34TH STREET			
POINT	STA	OFFSET	ELEV
A	49+69.35	26.40' LT	609.81
B	49+69.40	20.40' LT	609.80
C	49+63.76	20.40' LT	610.10
D	49+63.74	26.40' LT	610.07
E	49+63.73	30.30' LT	610.23
F	49+63.73	36.30' LT	610.31
G	49+58.74	26.40' LT	610.14
H	49+58.75	20.40' LT	610.18
I	49+58.75	16.40' LT	610.37
J	49+63.76	16.40' LT	610.29
K	49+63.78	12.40' LT	610.40
L	49+58.82	12.40' LT	610.55
M	49+58.73	30.29' LT	610.32
N	49+58.69	36.29' LT	610.60
O	49+71.35	26.40' LT	609.81
P	49+71.37	20.40' LT	609.80
Q	49+65.74	26.40' LT	610.04
R	49+65.75	20.40' LT	610.07

SOUTHEAST CORNER OF HARLEM AVE AND 34TH STREET			
POINT	STA	OFFSET	ELEV
AA	50+38.54	24.68' RT	609.46
BB	50+44.54	20.04' RT	609.31
CC	50+44.54	24.68' RT	609.39
DD	50+37.41	23.77' RT	609.46
EE	50+43.91	18.67' RT	609.31
FF	50+44.54	33.08' RT	609.92
GG	50+38.54	31.08' RT	609.83
HH	50+44.54	38.57' RT	610.02
II	50+43.27	38.57' RT	610.00
JJ	50+38.54	38.57' RT	609.94
KK	50+34.92	38.57' RT	610.01
LL	50+35.10	48.52' RT	609.86
MM	50+43.33	48.47' RT	610.10
NN	50+53.08	38.57' RT	610.15
OO	50+53.08	33.08' RT	609.91
PP	50+49.54	18.68' RT	609.69
QQ	50+36.15	28.69' RT	609.60
RR	50+53.08	18.58' RT	609.73
SS	50+35.01	43.57' RT	609.97
TT	50+43.30	43.57' RT	610.12
UU	50+44.54	31.08' RT	609.89



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		DRAWN -	REVISED -
	PLOT SCALE = 10'	CHECKED -	REVISED -
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
ADA DETAILS

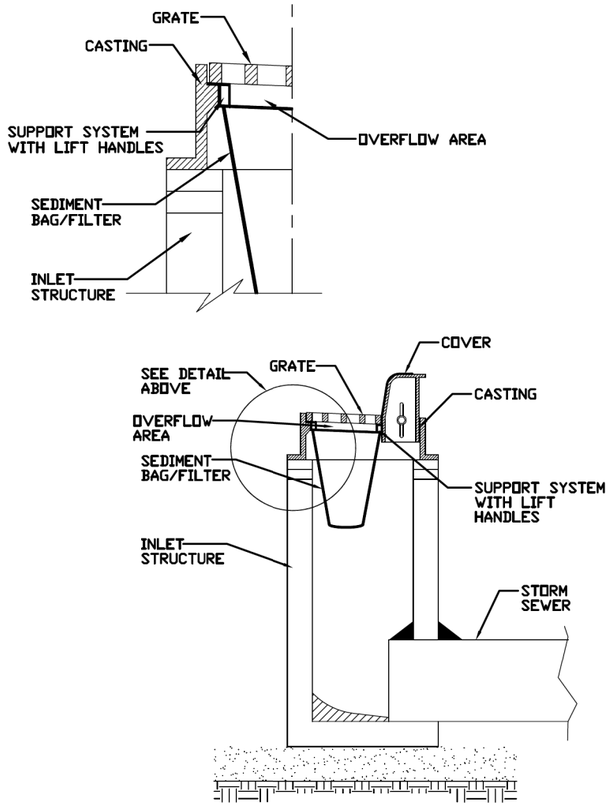
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	85

CONTRACT NO. 61M09

ILLINOIS FED. AID PROJECT

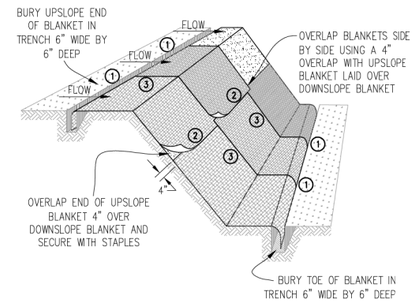
INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION

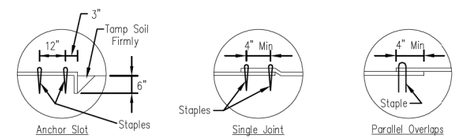


REFERENCE
Project
Designed Date
Checked Date
Approved Date

STANDARD DWG. NO.
IUM-561D
SHEET 1 OF 1
DATE 01-11-11

AUTOCAD2006





DETAIL 1 DETAIL 2 DETAIL 3

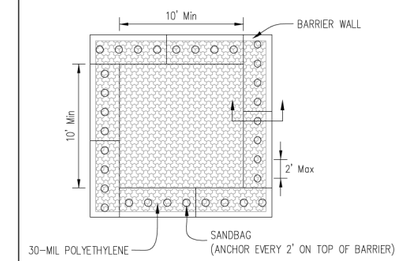
STAPLE DETAIL PUSH PIN DETAIL

NOTES:

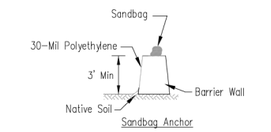
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

Sheet 1 of 1	File Name 561D	EROSION CONTROL BLANKET INSTALLATION DETAILS	Designed / Drawn B. JOHNSON 11/08 / Checked / Approved

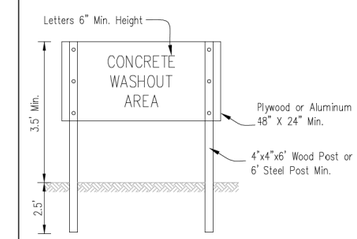
AUTOCAD2006



PLAN VIEW



BARRIER WALL ANCHOR SECTION



SIGN DETAIL

NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

Sheet 3 of 3	File Name 61M09-TWC	TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL	Designed / Drawn B. JOHNSON 6/08 / Checked / Approved

FILE NAME =	USER NAME = mthomas	DESIGNED -	REVISED -
N:\BERWYN\220369.02\Civil\DET01_220369-02.sht		DRAWN -	REVISED -
	PLOT SCALE = 80'	CHECKED -	REVISED -
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

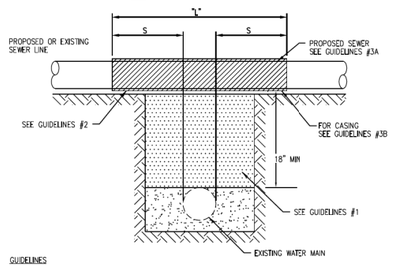
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
CONSTRUCTION DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	86
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		

PROPOSED SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION ABOVE EXISTING WATER MAIN



GUIDELINES

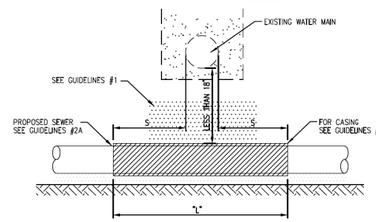
1. IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT
2. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET.
3. A) CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR;

   B) USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.

NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN

*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH LESS THAN 18" MINIMUM VERTICAL SEPARATION



GUIDELINES

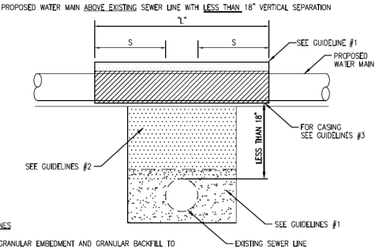
1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR "S" FEET ON EACH SIDE OF WATER MAIN.
2. A) CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR;

   B) USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.
3. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH

NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN

*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" VERTICAL SEPARATION



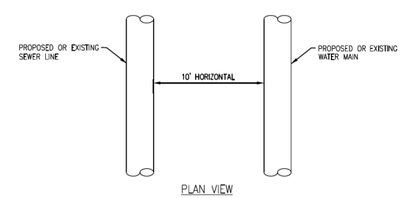
GUIDELINES

1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN CASING AND SEWER

NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING SEWER LINE.

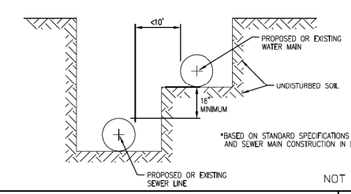
*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

PER IEPA, WHEN **PROPOSED** SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER), NO SPECIAL CONSTRUCTION REQUIRED



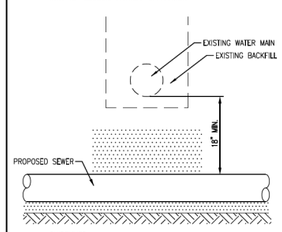
PLAN VIEW

PER IEPA, WHEN **PROPOSED** SEWER (OR WATER) IS LOCATED **LESS THAN 10 FEET** FROM EXISTING WATER (OR SEWER), DETAILS BELOW SHALL APPLY



*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH 18" MINIMUM VERTICAL SEPARATION

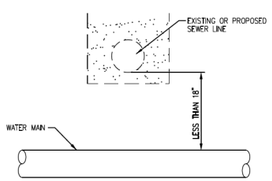


GUIDELINES

1. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.

*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

PLACEMENT OF WATER MAIN BELOW EXISTING OR PROPOSED SEWER LINE WITH LESS THAN 18" MINIMUM VERTICAL SEPARATION, NOT ALLOWED.



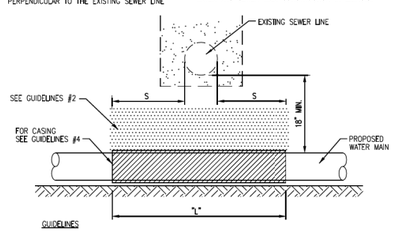
NOT ALLOWED*
MUST MAINTAIN 18" VERTICAL SEPARATION

*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION

NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING SEWER LINE

*BASED ON STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

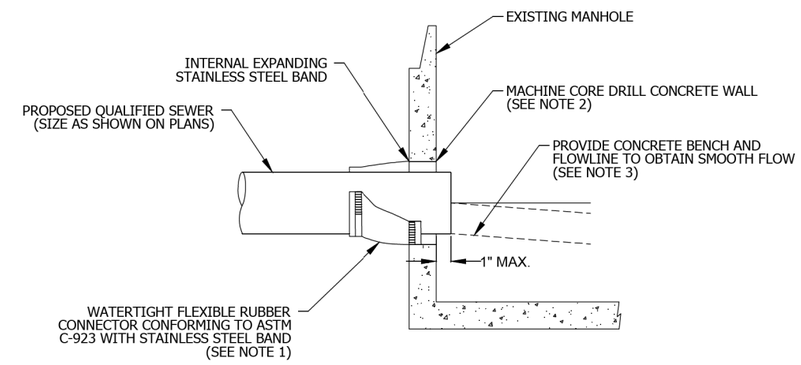


GUIDELINES

1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.
4. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING.

NOT TO SCALE

	TECHNICAL GUIDANCE MANUAL	7/1/15
	WATER AND SEWER SEPARATION REQUIREMENTS (PER IEPA)	STD. DWG. NO. 41
		PAGE NO. 42



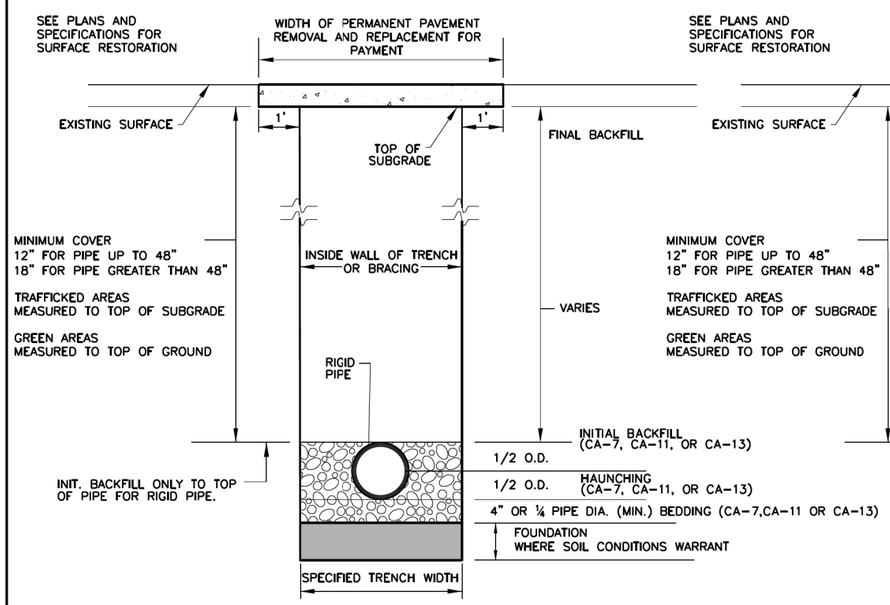
SECTION

NOTES:
1. RESILIENT CONNECTOR COMPLYING WITH ASTM STANDARD C-923 (MOST RECENT EDITION) SHALL BE USED.
2. MACHINE CORE/DRILL CIRCULAR OPENING IN STRUCTURE WALL. OPENING DIAMETER TO FIT THE REQUIRED RESILIENT CONNECTOR PER MANUFACTURER'S RECOMMENDATION.
3. CUT, SHAPE, AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW.
4. CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT, CONCRETE, OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.
5. ANY DAMAGE TO THE EXISTING MANHOLE SHALL BE REPAIRED BY THE CONTRACTOR.
6. REINFORCED CONCRETE COLLAR MAY BE SUBSTITUTED FOR PIPE DIAMETERS LARGER THAN 36-INCHES.

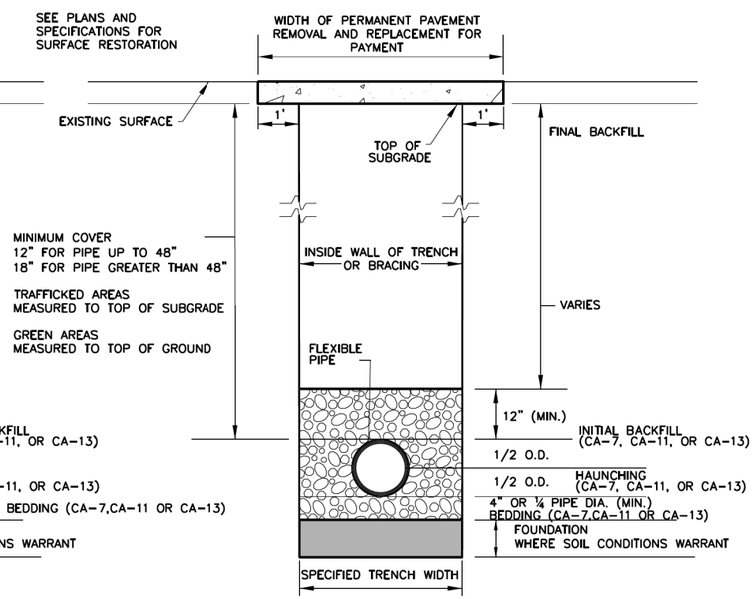
NOT TO SCALE

	TECHNICAL GUIDANCE MANUAL	10/02/18
	PIPE TO EXISTING MANHOLE CONNECTION DETAIL	STD. DWG. NO. 42
		PAGE NO. 43

FILE NAME =	USER NAME = mthomas	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	34TH STREET REHABILITATION CONSTRUCTION DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\BERWYN\220369.02\Civil\DET02.220369-02.sht		DRAWN -	REVISED -			3734	23-00177-00-PV	COOK	97	87
	PLOT SCALE = 80'	CHECKED -	REVISED -					CONTRACT NO. 61M09		
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



RIGID PIPE INSTALLATION DETAIL

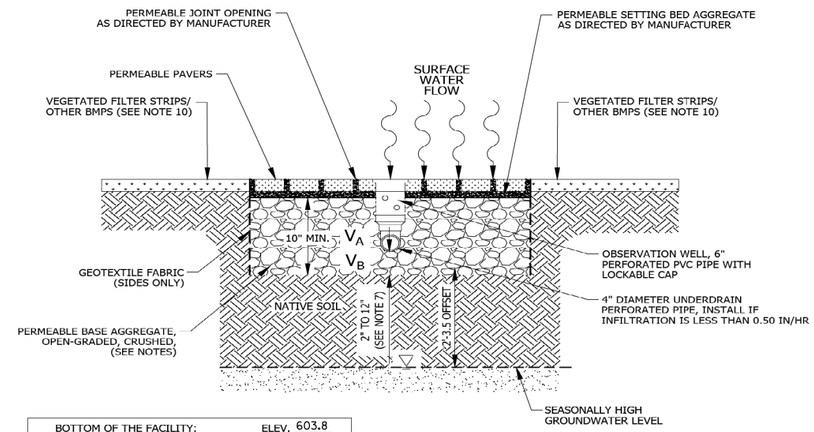


FLEXIBLE PIPE INSTALLATION DETAIL

NOTES:
1. FOR QUALIFIED SEWER CONSTRUCTION ONLY.
2. SHORING, OR EQUIVALENT PROTECTIVE SYSTEM, REQUIRED FOR TRENCHES OF 5' DEPTH OR GREATER, OR AS REQUIRED BY MUNICIPALITY.

NOT TO SCALE

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO	TECHNICAL GUIDANCE MANUAL	7/1/15
	RIGID AND FLEXIBLE PIPE INSTALLATION DETAIL	STD. DWG. NO. 34
		PAGE NO. 35



BOTTOM OF THE FACILITY:	ELEV.	603.8
SEASONALLY HIGH GROUNDWATER:	ELEV.	597.4
SEPARATION:	FEET	6.4

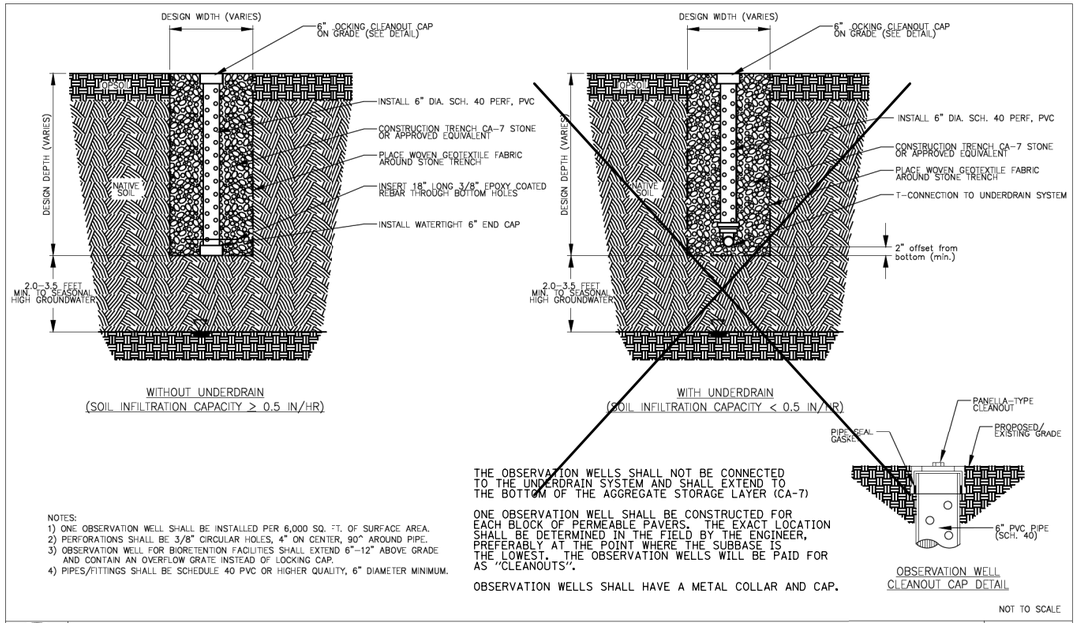
VOLUME TYPE	SURFACE AREA	DEPTH	POROSITY	STORAGE VOLUME	VOLUME PROVIDED
V_A : COARSE AGGREGATE (ABOVE INVERT)			0.36	0.50 X 0.36 X V_A	
V_B : COARSE AGGREGATE (BELOW INVERT)			0.36	0.36 X V_B	
				TOTAL	

NOTES:
1. THE PERIMETER OF THE VOLUME CONTROL FACILITY SHALL MAINTAIN THE MINIMUM HORIZONTAL SEPARATION DISTANCE OF: 10-FEET FROM FOUNDATIONS, UNLESS WATERPROOFED; 20-FEET FROM ROADWAY GRAVEL SHOULDER; AND 100-FEET FROM POTABLE WATER WELLS, SEPTIC TANKS/FIELDS, OR OTHER UNDERGROUND TANKS.
2. SANITARY OR COMBINED SEWERS SHALL NOT BE LOCATED WITHIN THE VOLUME CONTROL FACILITY. SANITARY OR COMBINED SEWERS SHALL NOT BE LOCATED BELOW THE FOOTPRINT OF THE VOLUME CONTROL FACILITY. WHEN LOCAL CONDITIONS PREVENT THE SEWER FROM BEING LOCATED OUTSIDE THE FOOTPRINT OF THE FACILITY THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN QUALITY STANDARDS, OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
3. AVOID INSTALLATION ON SLOPES GREATER THAN 3.00%. AVOID COMPACTING NATIVE SOILS. SCARIFY ANY COMPACTED SOIL.
4. GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF IUM MATERIAL SPECIFICATION 592. FOR WOVEN: APPARENT OPENING SIZE OF 0.50 MM (TABLE 1, CLASS I). FOR NON WOVEN: APPARENT OPENING SIZE OF 0.30 MM (TABLE 2, CLASS II).
5. STONE STORAGE OPTIONS ARE IDOT CA-1, CA-3, CA-7, DISTRICT VULCAN MIX, OR APPROVED ALTERNATE. NO RECYCLED MATERIALS.
6. MINIMUM DISTANCE OF 2 FEET (3.5 FEET IN COMBINED SEWER AREAS) BETWEEN BOTTOM OF BMP AND SEASONALLY HIGH GROUNDWATER LEVEL.
7. UNDERDRAINS ARE REQUIRED IN TYPICAL CLAYEY SOILS WHERE INFILTRATION RATES ARE LESS THAN 0.5 INCH/HOUR. MAXIMUM OF 1 UNDERDRAIN PER 30 FEET. PROVIDE A SOIL REPORT DOCUMENTING NATIVE INFILTRATION RATE TO FOREGO UNDERDRAINS.
8. MINIMUM UNDERDRAIN BEDDING OF TWO INCHES, MAXIMUM OF 12 INCHES.
9. ONE OBSERVATION WELL REQUIRED PER 6,000 SQUARE FEET OF SURFACE AREA.
10. FOLLOW THE REQUIRED PRETREATMENT MEASURES LISTED ON THE VOLUME CONTROL PRETREATMENT MEASURES DETAIL.
11. MAINTENANCE REQUIREMENTS INCLUDE ANNUAL VACUUMING AND LOW-PRESSURE POWER WASHING OF PAVEMENT SURFACE. ADJACENT VEGETATED AREAS SHALL BE WELL-MAINTAINED. BARE SPOTS AND ERODED AREAS SHALL BE REPLANTED AND STABILIZED IMMEDIATELY. DO NOT SEALCOAT OR APPLY DE-ICING SAND/GRAVEL/SALT. APPROPRIATE SIGNAGE REQUIRED FOR FACILITY, REFER TO THE TYPICAL SIGNAGE FOR PERMEABLE PAVEMENT DETAIL.

NOT TO SCALE

	TECHNICAL GUIDANCE MANUAL	8/24/18
	PERMEABLE PAVERS DETAIL	STD. DWG. NO.9
		PAGE NO. 10 – FC

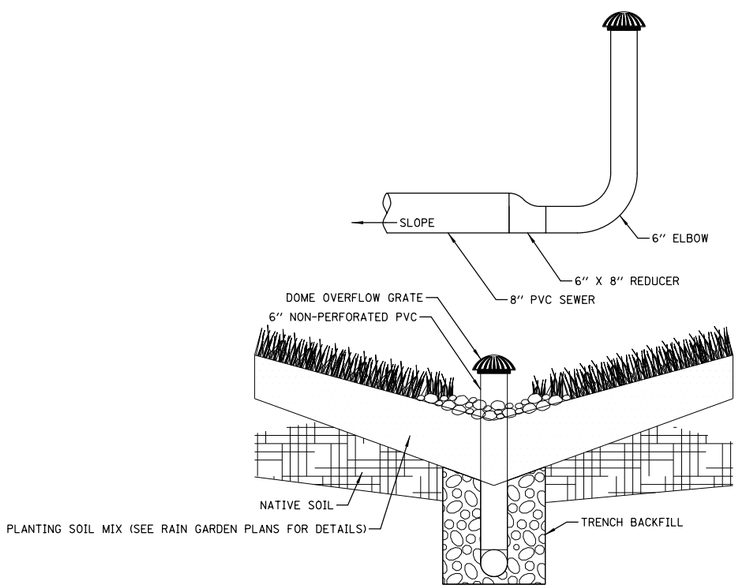
FILE NAME = N:\BERWYN\220369.02\Civil\DET02A_220369-02.sht	USER NAME = mthomas	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	34TH STREET REHABILITATION CONSTRUCTION DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
	PLOT SCALE = 80'	DRAWN -	REVISED -					3734	23-00177-00-PV	COOK	97 / 88
Default	PLOT DATE = 11/10/2025	CHECKED -	REVISED -					CONTRACT NO. 61M09			
		DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			



OBSERVATION WELL DETAIL
(PAID FOR AS "CLEANOUTS")

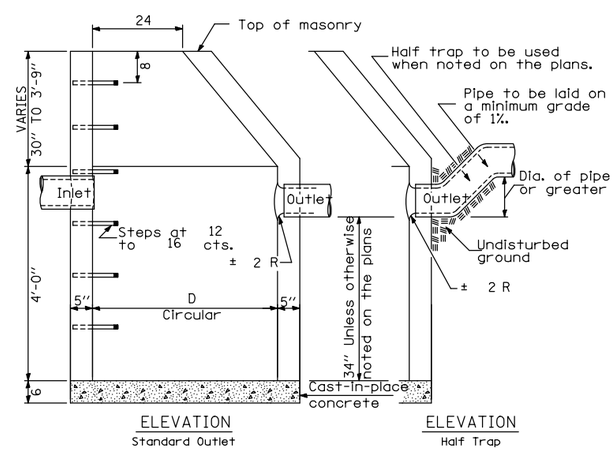
EDUCATIONAL PROJECT SIGNAGE (12"X18")

PAID FOR AS SIGN PANEL - TYPE 1
DESIGN SUBJECT TO CHANGE, CONTRACTOR TO SUBMIT SHOP DRAWINGS TO CITY PRIOR TO FABRICATION



NOTES:
1. AREA DRAINS TO BE USED IN RAIN GARDENS AT LOCATIONS AS SHOWN ON THE PLANS.
2. SEE SEWER PLAN AND PROFILE SHEETS FOR RIM AND INVERT ELEVATIONS.
3. AREA DRAIN SHALL INCLUDE OVERFLOW GRATE, PVC DOWN PIPE AND REDUCER. PVC SEWER WILL BE PAID FOR SEPARATELY.

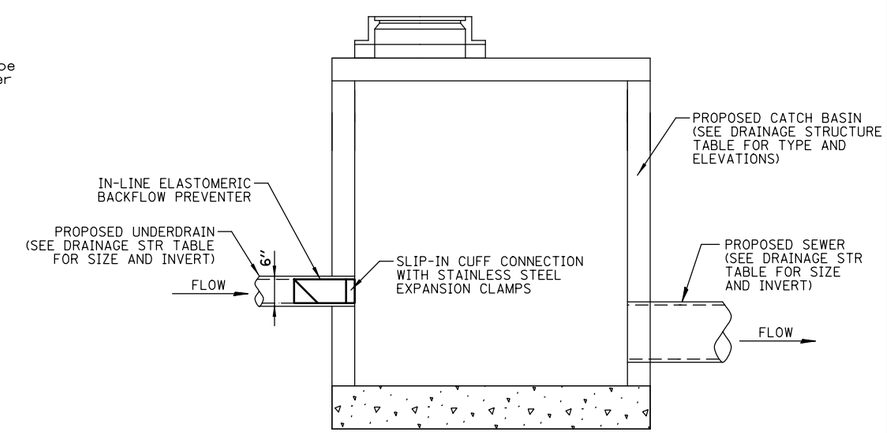
AREA DRAIN



CATCH BASIN TYPE A

CATCH BASINS SHALL HAVE PRECAST RUBBER BOOTS CONFORMING TO ASTM C-923 AT ALL PIPE CONNECTIONS

SEE STANDARD 602601 FOR OPTIONAL PRECAST REINFORCED CONCRETE FLAT TOP SLAB.



BACKFLOW PREVENTER DETAIL

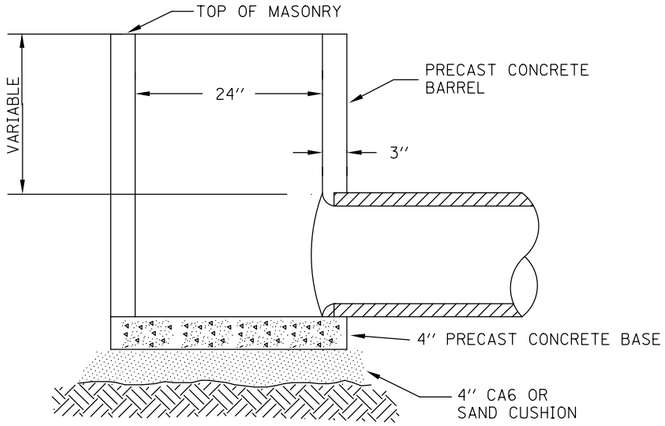
FILE NAME = N:\BERWYN\220369.02\Civil\DET03.220369-02.sht	USER NAME = mthomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 80'	CHECKED -	REVISED -
Default	PLOT DATE = 11/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

34TH STREET REHABILITATION
CONSTRUCTION DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	89
		CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		

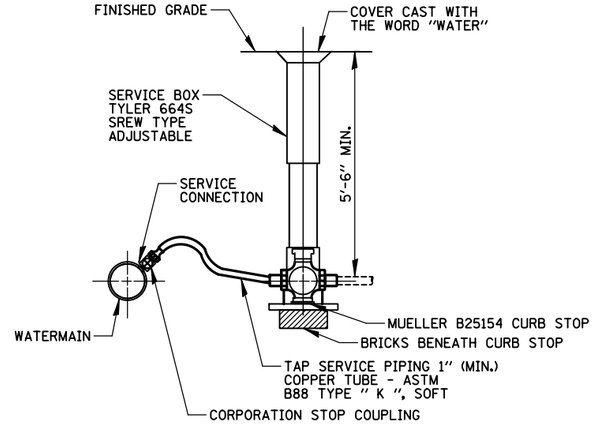


PRE-CAST REINFORCED CONCRETE RISER RINGS SHALL COMPLY WITH ASTM C-39.

ALL JOINTS BETWEEN PRE-CAST ELEMENTS, ADJUSTING RINGS AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT.

ALL PIPE CONNECTIONS SHALL BE FITTED WITH PRECAST RUBBER BOOTS CONFORMING TO ASTM C-923.

INLET TYPE A

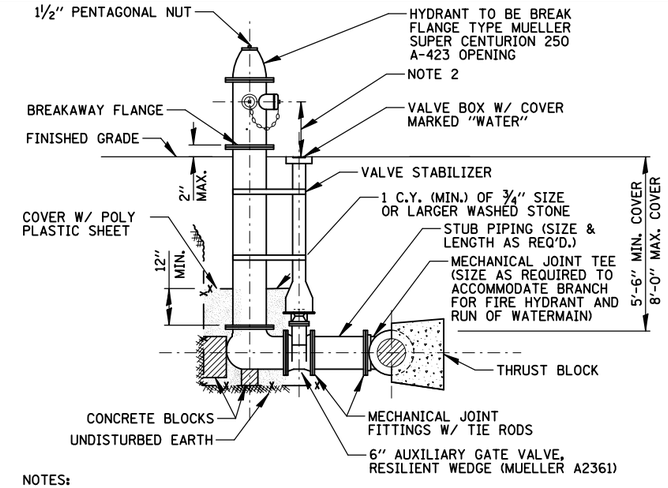


NOTES:

1. EXACT LOCATION OF WATER SERVICES TO BE APPROVED BY ENGINEER.
2. WATER SERVICE FITTINGS TO CONFORM TO CITY STANDARDS.
3. WHERE EXISTING SERVICE DIVIDES TO SERVE TWO BUILDINGS, PROVIDE TWO NEW SERVICES.
4. PROVIDE A MINIMUM OF 18'' BETWEEN TAPS AND BETWEEN TAP AND PIPE JOINT.

TYPICAL WATER SERVICE CONNECTION

N.T.S.

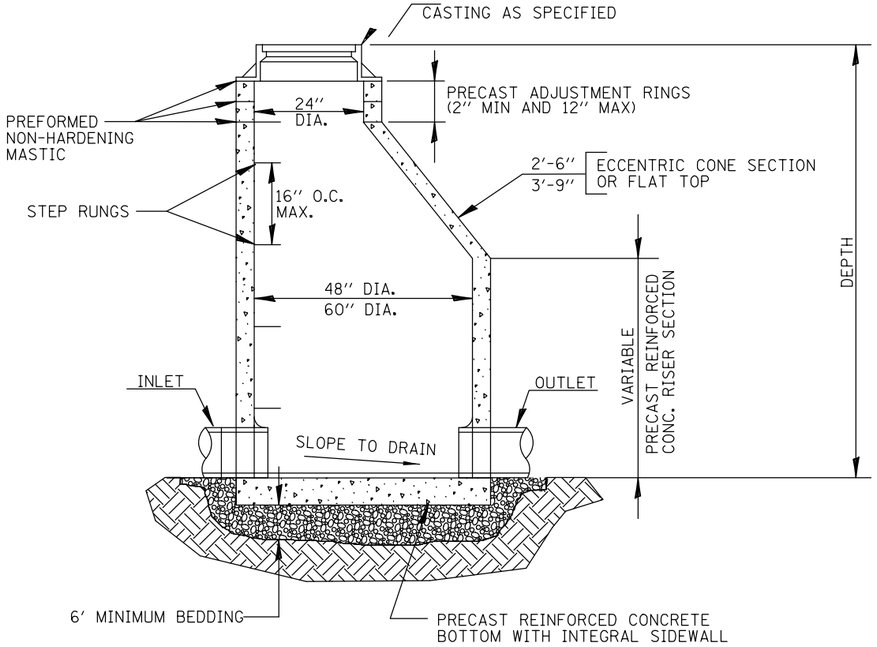


NOTES:

1. LOCATION OF AUXILIARY VALVE SHALL BE DEPENDENT UPON LOCATION OF EXISTING WATERMAIN. ACTUAL LOCATION TO BE DETERMINED IN THE FIELD BY ENGINEER AND OWNER. IF EXISTING WATERMAIN CONFLICTS WITH HYDRANT LEAD, SET HYDRANT AUXILLARY VALVE, PROVIDE TEMPORARY CAP AND BRACE. INSTALL HYDRANT AFTER EXISTING WATERMAIN HAS BEEN REMOVED.
2. PROVIDE 18 INCHES TO 24 INCHES CLEARANCE BETWEEN NOZZLE AND FINISHED GRADE.
3. MINIMUM NOZZLE SIZES SHALL INCLUDE TWO 2½'' AND ONE 5¼''.
4. PROVIDE 2 FOOT DIAMETER BY 2 FEET DEEP DRAINAGE PIT AROUND AND ADJACENT TO FIRE HYDRANT, FILLED WITH WASHED STONE.
5. FIRE HYDRANT SHALL BE PAINTED RED, INCLUDING CAPS, PORT CAPS AND CHAINS.
6. FIRE HYDRANTS SHALL BE LOCATED 3' (MIN.) FROM BACK OF CURB AS SHOWN ON THE DRAWINGS OR AS OTHERWISE DIRECTED BY THE ENGINEER.

STANDARD FIRE HYDRANT INSTALLATION

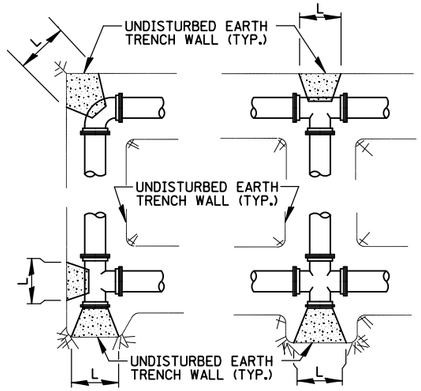
N.T.S.



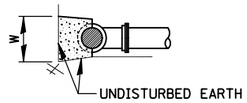
NOTES:

1. MANHOLES SHALL HAVE PRECAST RUBBER BOOTS CONFORMING TO ASTM C-923 AT ALL PIPE CONNECTIONS.
2. ALL JOINTS SHALL BE MADE WATERTIGHT WITH PRIMER AND PREFORMED JOINT SEALING COMPOUND.

MANHOLE TYPE A



TYPICAL PLAN



TYPICAL SECTIONS

NOTES:

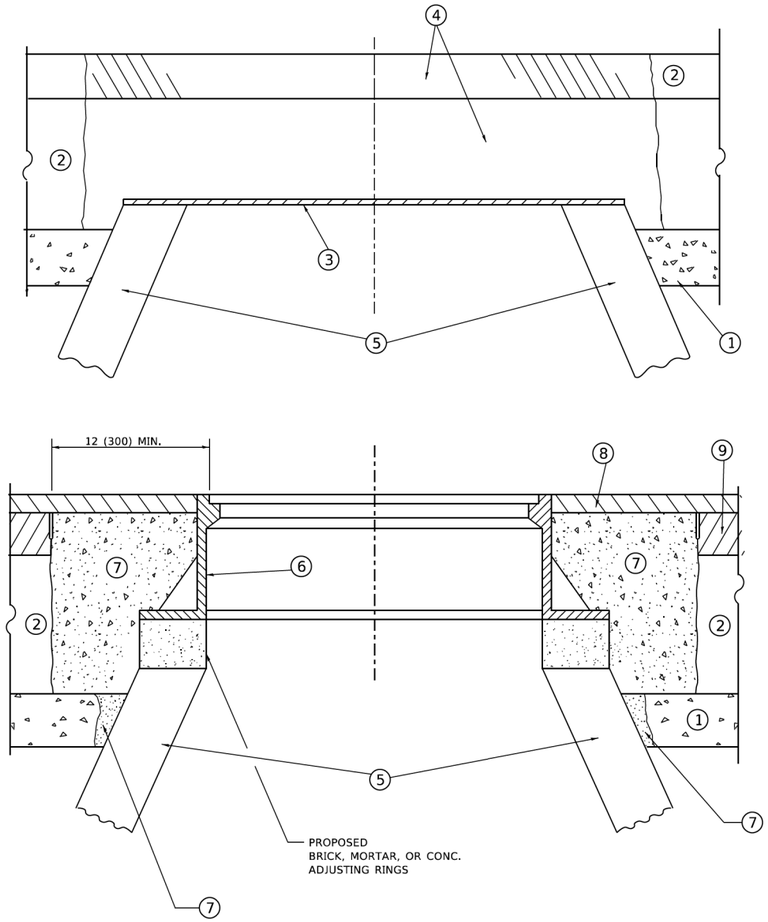
1. PROVIDE PRECAST OR CAST-IN-PLACE CONCRETE THRUST BLOCKS OF ADEQUATE SIZE AND THRUST BEARING SURFACE TO PREVENT MOVEMENT OF PIPELINE UNDER PRESSURE. SEE TABLE FOR BEARING SURFACE AREA.
2. PLACE THE BASE AND THRUST BEARING SIDES OF THRUST BLOCK DIRECTLY AGAINST UNDISTURBED EARTH.
3. PLACE THRUST BLOCKING SO THE FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIR.
4. THE LENGTH (L) OF THE THRUST BLOCK SHALL BE APPROXIMATELY TWICE THE WIDTH (W).
5. THRUST BLOCKS ARE BASED ON A 2000 PSF SOIL BEARING LOAD AND 100 PSI THRUST INSIDE THE PIPE.
6. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 2000 PSI AFTER 28 DAYS.

PIPE SIZE	PIPE BEND IN DEGREES				PLUG OR TEE
	90	45	22.5	11.25	
8''	5 SQ. FT.	3 SQ. FT.	2 SQ. FT.	1 SQ. FT.	3 SQ. FT.
10''	7 SQ. FT.	4 SQ. FT.	2 SQ. FT.	1 SQ. FT.	5 SQ. FT.
12''	10 SQ. FT.	5 SQ. FT.	3 SQ. FT.	2 SQ. FT.	7 SQ. FT.
14''	13 SQ. FT.	7 SQ. FT.	4 SQ. FT.	2 SQ. FT.	9 SQ. FT.
16''	17 SQ. FT.	9 SQ. FT.	5 SQ. FT.	2 SQ. FT.	12 SQ. FT.
20''	26 SQ. FT.	14 SQ. FT.	7 SQ. FT.	4 SQ. FT.	18 SQ. FT.

BEARING SURFACE AREA TABLE

TYPICAL THRUST BLOCK INSTALLATIONS

N.T.S.



DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

NOTES

1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.

B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.

C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.

C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* 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-2* CONCRETE
8. PROPOSED HMA SURFACE COURSE
9. PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: Default
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USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - R. BORO 12-06-11	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 11-18-22	
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23	

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

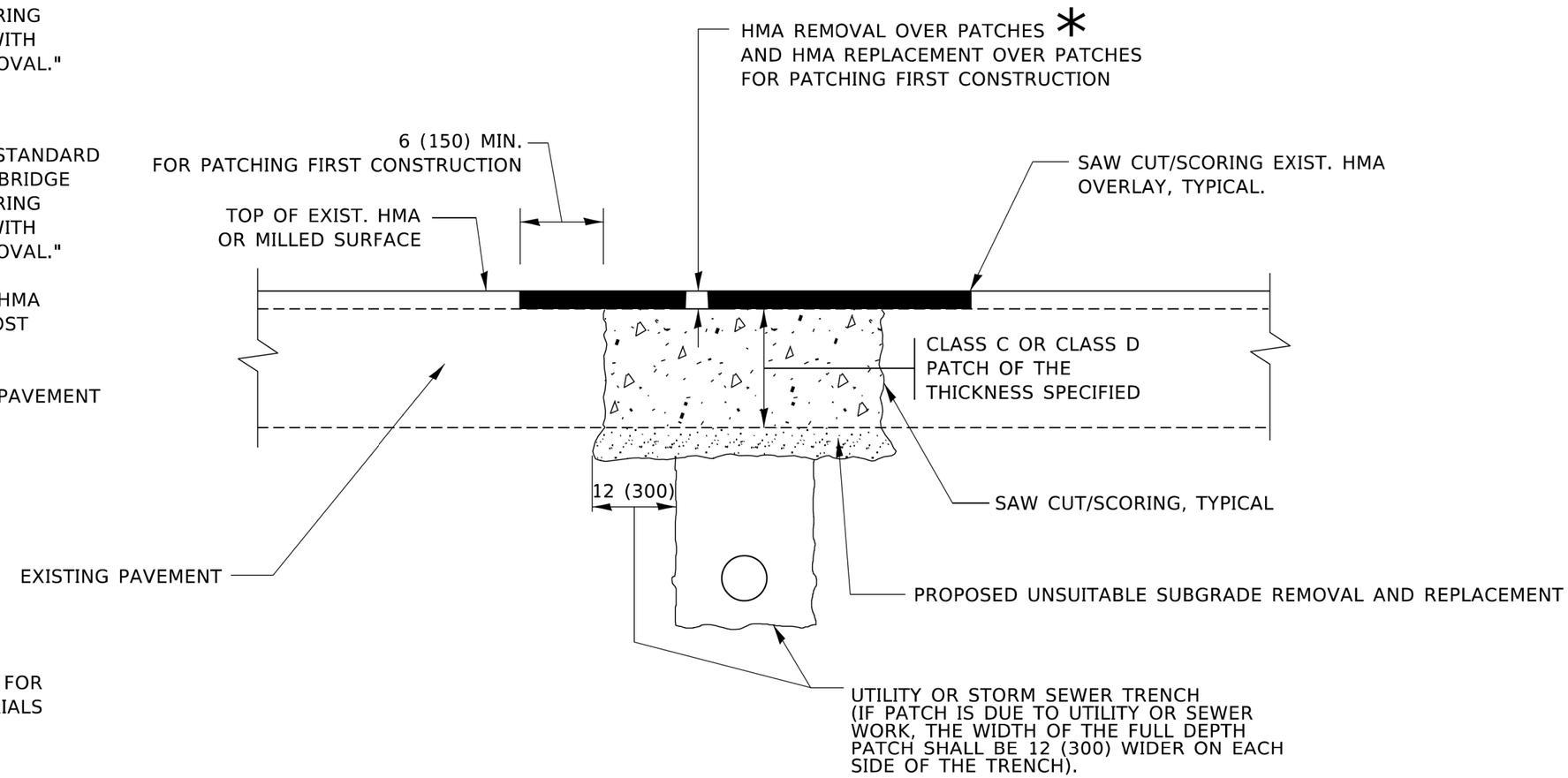
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	91
	BD600-03 (BD-08)	CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		

METHOD OF MEASUREMENT

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

BASIS OF PAYMENT

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



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

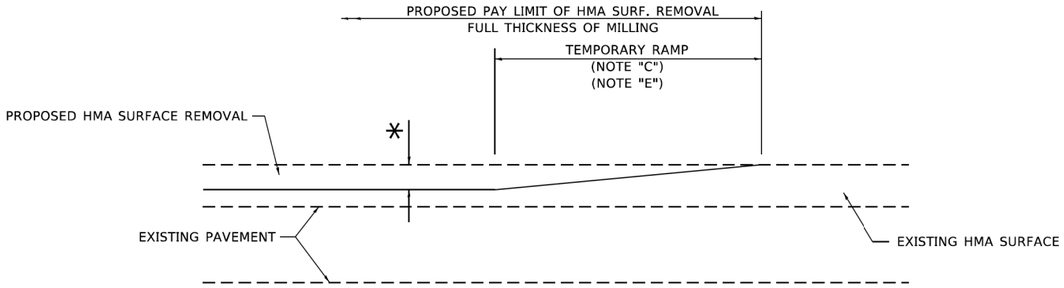
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

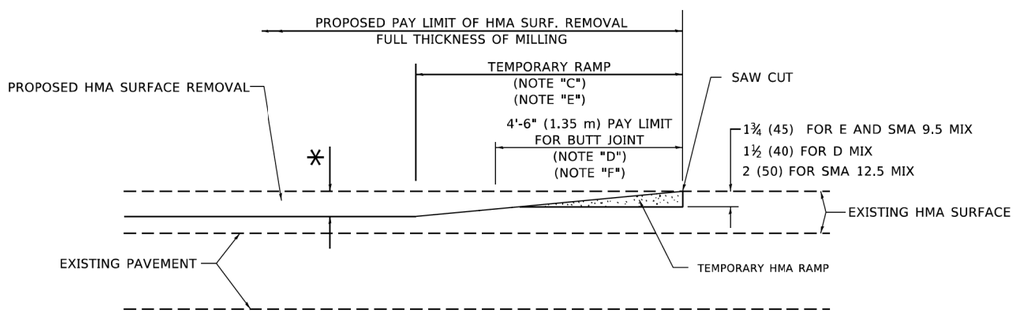
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

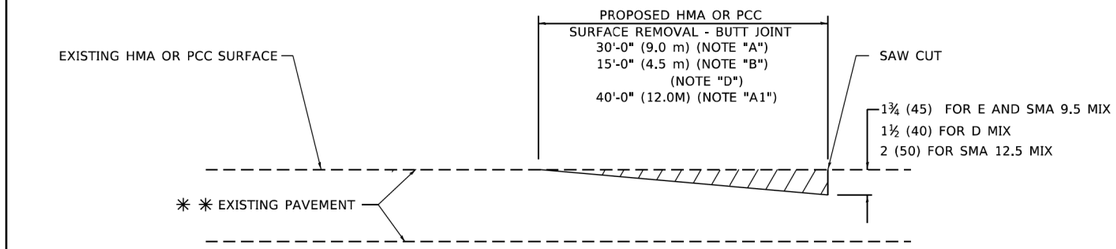


HMA CONSTRUCTED TEMPORARY RAMP

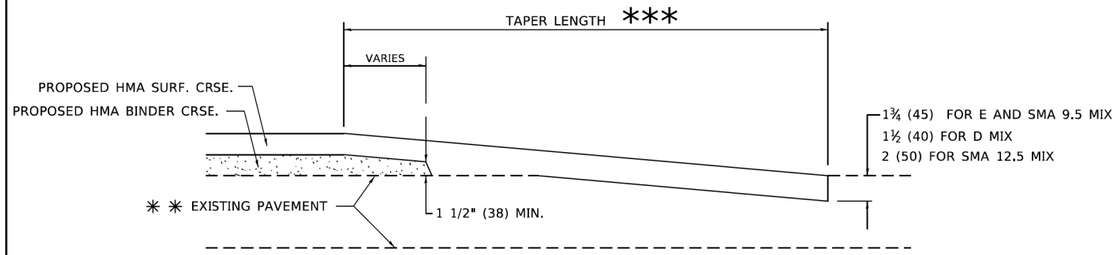
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



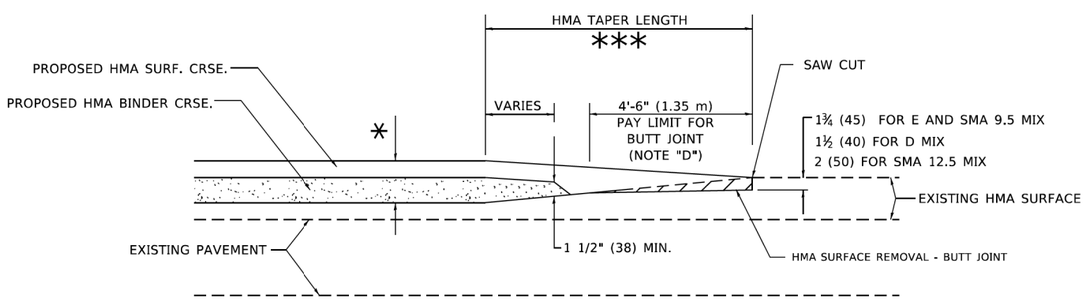
BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

GENERAL NOTES

A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.

A1. INTERSTATES

B. MINOR SIDE ROADS.

C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

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

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

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	DRAWN -	REVISED - M. GOMEZ 04-06-01	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07	
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22	

BUTT JOINT AND HMA TAPER DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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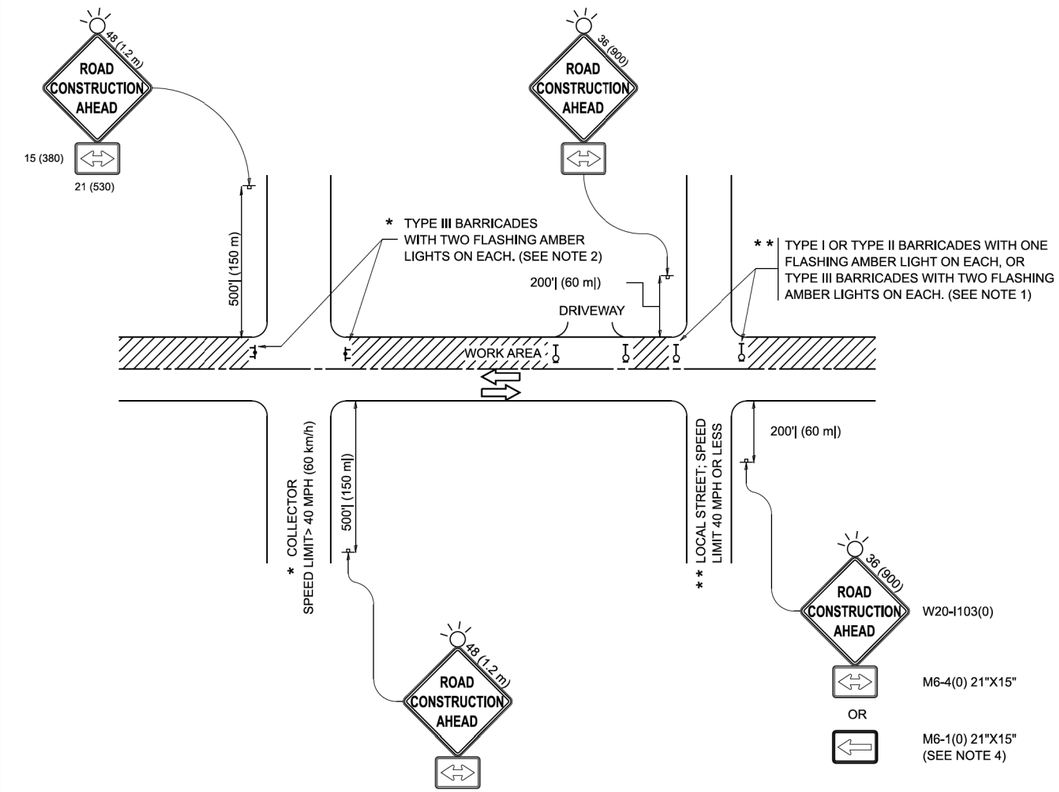
	BD400-05 BD-32	CONTRACT NO. 61M09		
		ILLINOIS FED. AID PROJECT		



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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USER NAME = lawrence.demanche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 0.08333317 ' / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-06	
PLOT DATE = 10/2/2025	DATE - 06-89	REVISED - D. SENDERAK 05-03-25	

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

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

F.A.B. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	94

TC-10

CONTRACT NO. 61M09

ILLINOIS | FED. AID PROJECT

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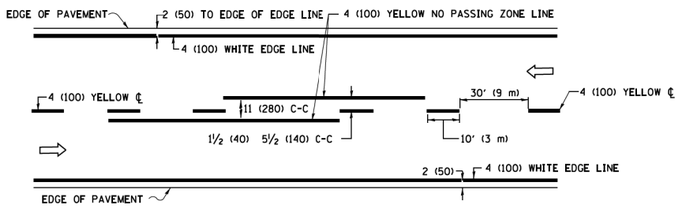
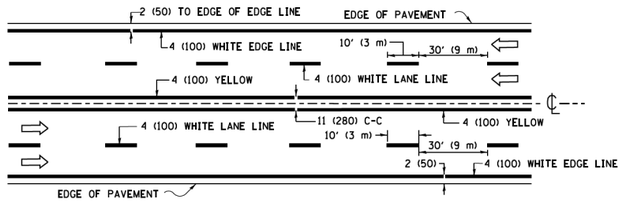
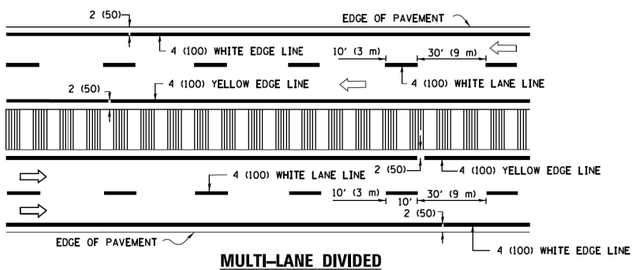


2–LANE ROADWAY



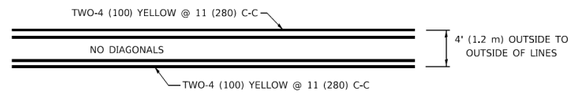
MULTI–LANE UNDIVIDED



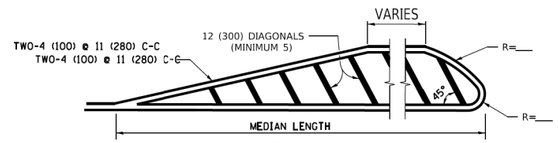
MULTI–LANE DIVIDED

WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING



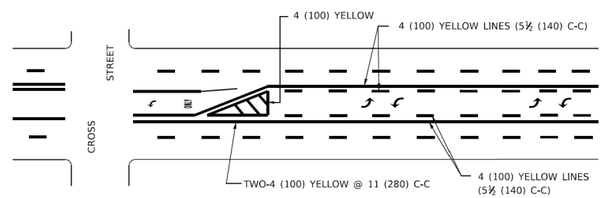
4' (1.2 m) WIDE MEDIANS ONLY



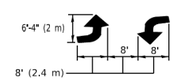
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

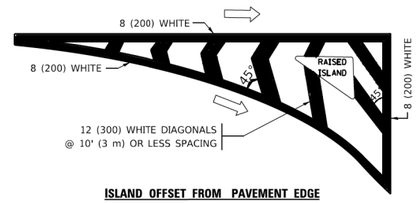


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

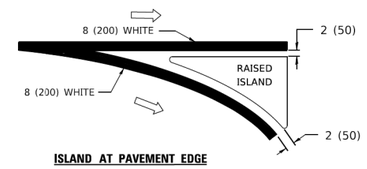


MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

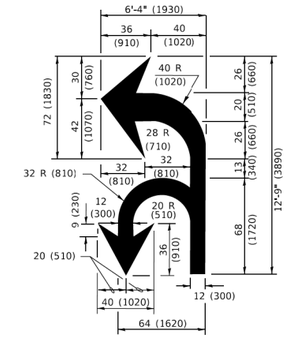


ISLAND OFFSET FROM PAVEMENT EDGE

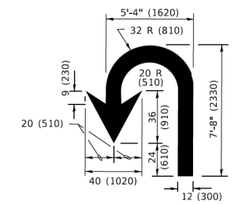


ISLAND AT PAVEMENT EDGE

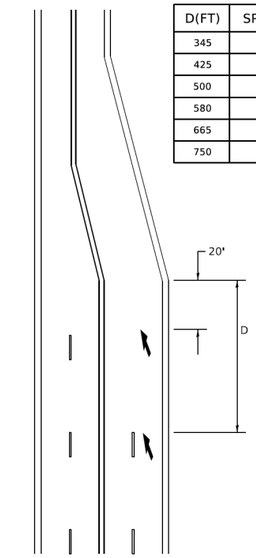
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



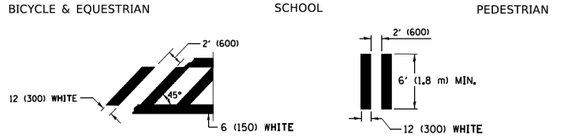
U–TURN



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

LANE REDUCTION TRANSITION

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

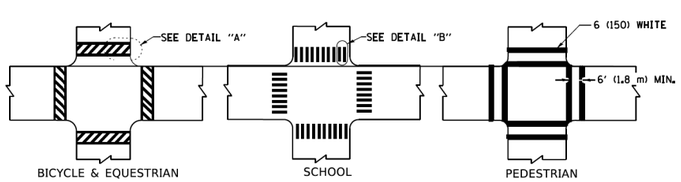


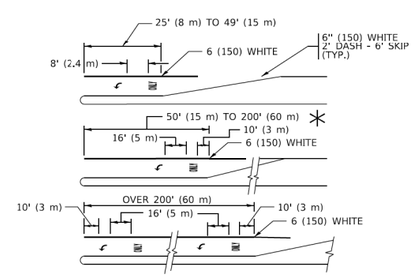
DETAIL "A"

DETAIL "B"

TYPICAL CROSSWALK MARKING

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





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".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE 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; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 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: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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.

MODEL: Default
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USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	
	DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15	
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

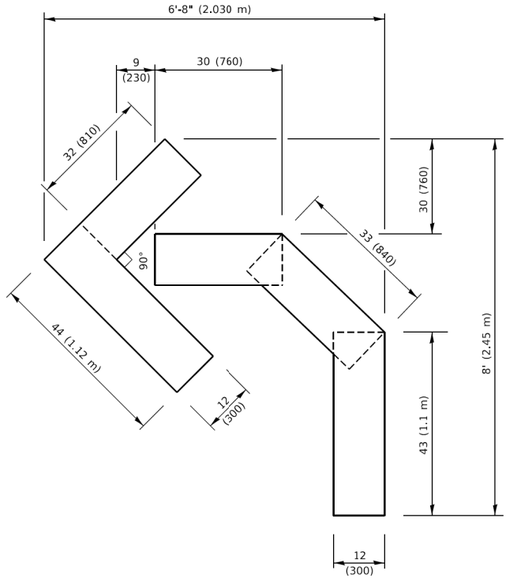
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	95
	TC-13	CONTRACT NO. 61M09		

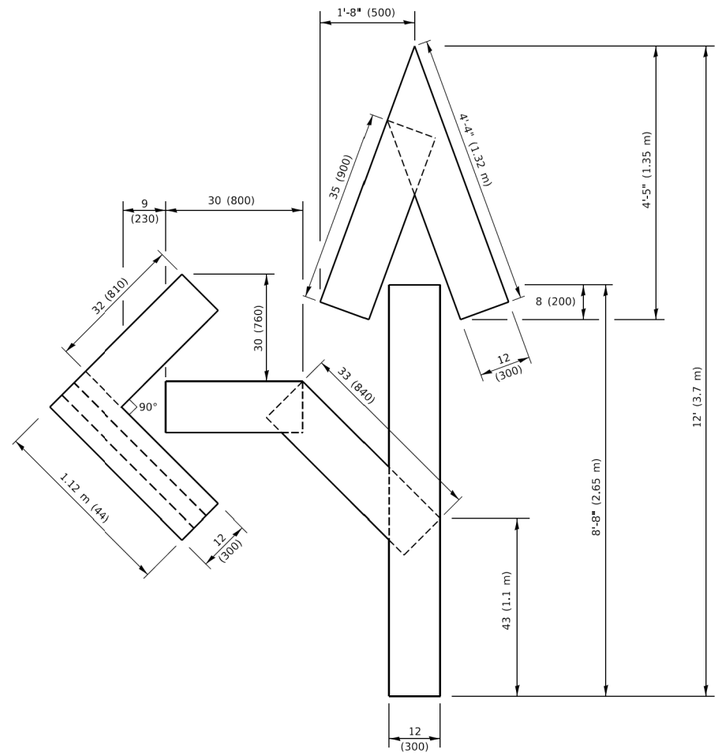
ILLINOIS FED. AID PROJECT

tc13.dgn 3/4/2019 10:34:37 AM User=footemj



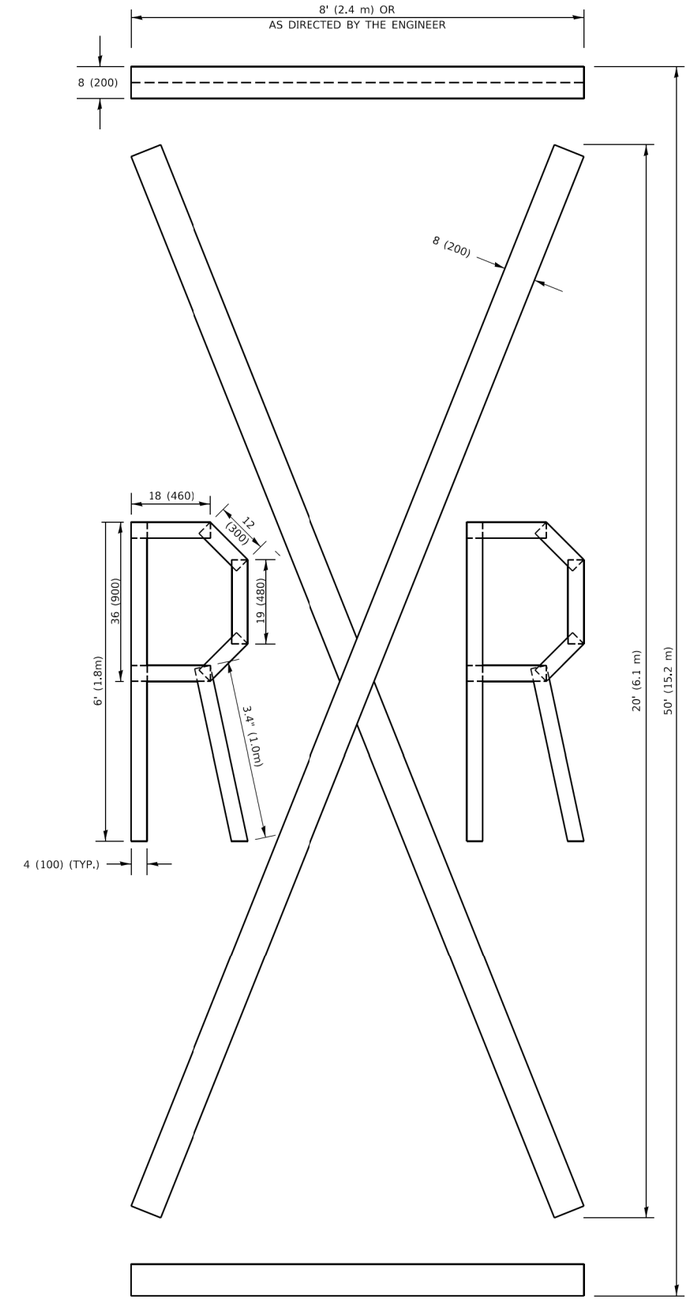
QUANTITY

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



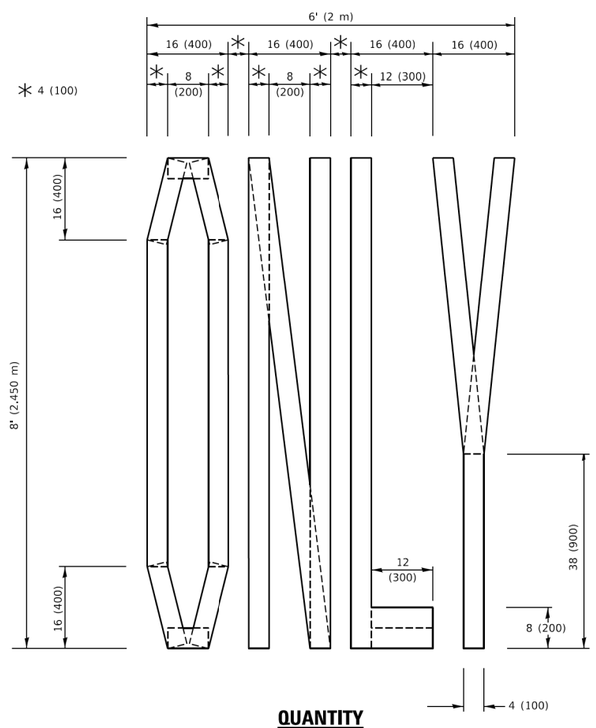
QUANTITY

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



QUANTITY

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



QUANTITY

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

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

MODEL: Default
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	DRAWN -	REVISED - E. GOMEZ 08-28-00	
PLOT SCALE = 50.0068 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16	

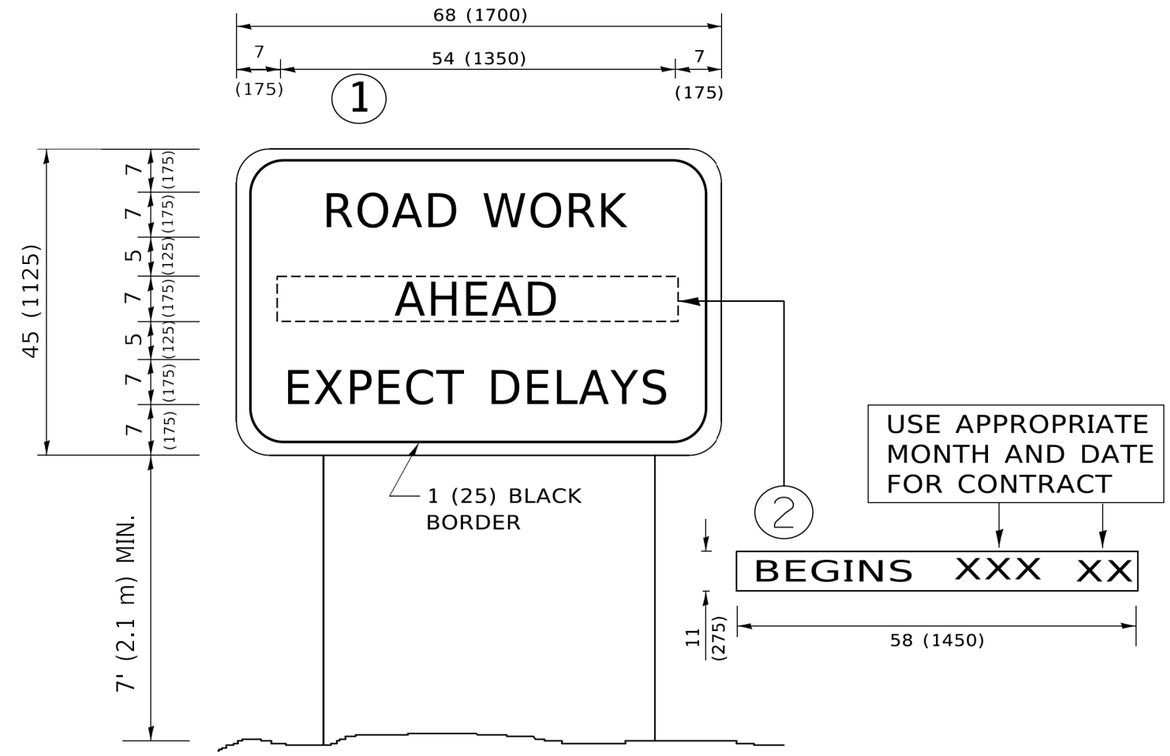
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	96
	TC-16	CONTRACT NO. 61M09		
	ILLINOIS	FED. AID PROJECT		

tc16.dgn 3/4/2019 10:37:35 AM User=footemj



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.

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist5\d22x34\CADData\CADsheets\tc22.dgn

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	
	DRAWN -	REVISED - R. MIRS 12-11-97			
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99			
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3734	23-00177-00-PV	COOK	97	97
	TC-22	CONTRACT NO. 61M09		
	ILLINOIS	FED. AID PROJECT		

tc22.dgn 3/4/2019 10:48:10 AM User=footemj