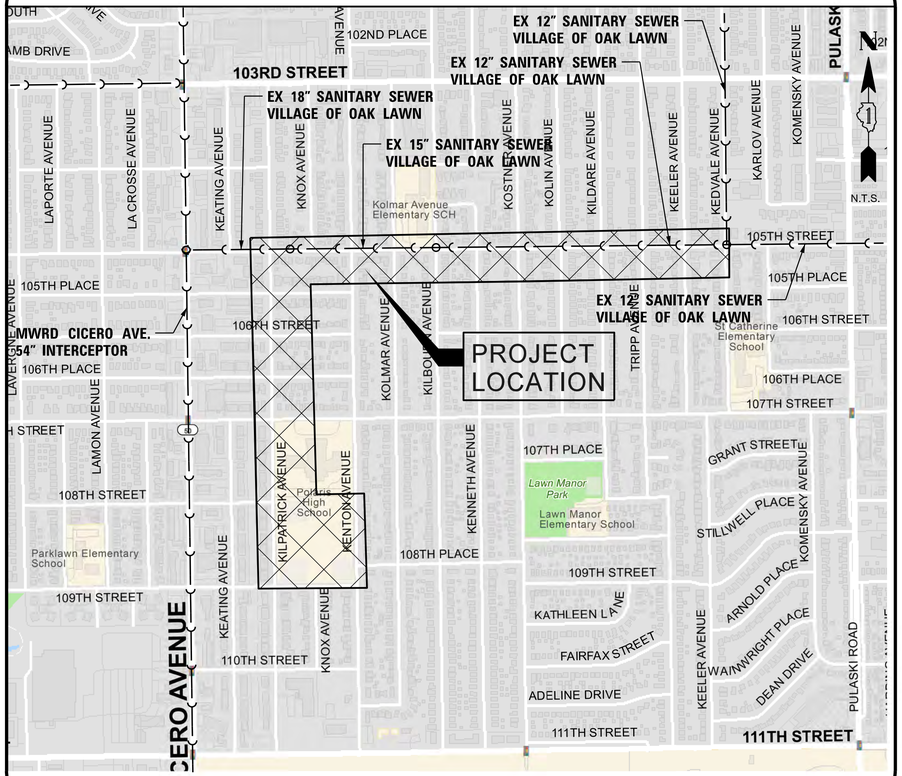
VILLAGE OF OAK LAWN

COMMUNITY HIGH SCHOOL DISTRICT 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT

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LOCATION / VICINITY MAP



IDOT STANDARDS

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CLASS C AND D PATCHES	442201-03
PRECAST REINFORCED CONCRETE FLARED END SECTION	542301-03
CATCH BASIN TYPE A	602001-02
INLET - TYPE A	602301-04
PRECAST MANHOLE, TYPE A, 4' DIAMETER	602401-07
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MANHOLE STEPS	602701-02
FRAME AND LIDS TYPE 1	604001-05
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER	606001-08
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OFF-RD OPERATIONS, 2L, 2W, 15' TO 24'' FROM PAVEMENT EDGE	701006-05
LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS	701301-04
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Mayor/Village President:
TERRY VORDERER

Trustees:
TIM DESMOND
ALEX OLEJNICZAK
PAUL MALLO
JAMIE PEMBROKE
WILLIAM "BUD" STALKER
RALPH SOCH

Village Manager:
THOMAS E. PHELAN

Assistant Village Manager:
JEROME DILLON

Director of Public Works :
WILLIAM MEYER

Village Clerk:
CLAIRE HENNING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ANY AND ALL GEOTECHNICAL REPORTS PRIOR TO SUBMITTING A BID.

SPECIAL ATTENTION SHALL BE CALLED TO THE SOIL TYPES AND CONDITIONS WITHIN THE PROJECT LIMITS; MEANS AND METHODS FOR EXPEDITIOUS AND PROPER CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

BENCHMARK

SEE ALIGNMENT, TIES, AND BENCHMARKS SHEETS 8 - 12

LOCATION

THE PROJECT IS LOCATED AT POLARIS INTERMEDIATE SCHOOL AND KILPATRICK AVE. BETWEEN 109th ST. AND 105th ST. AND 105th ST. BETWEEN KILPATRICK AVE. AND KEDVALE AVE. IN THE VILLAGE OF OAK LAWN, IL.

CALL JULIE 811
WITH THE FOLLOWING:
COUNTY COOK
CITY-TOWNSHIP OAK LAWN
48 HOURS BEFORE YOU DIG.
EXCLUDING SAT., SUN., & HOLIDAYS

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION

JOHN A LAPAGLIA
062-070592
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

ENGINEER — DATE 7 / 28 / 25

JOHN A. LAPAGLIA
ILLINOIS REGISTRATION No. 062-070592
EXPIRATION DATE: 11/30/2025

Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.
P (708) 588-4055
E WMOJobStart@mwrd.org

CLIENT :
VILLAGE OF OAK LAWN
9446 SOUTH RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

CHRISTOPHER B. BURKE ENGINEERING, LTD
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500
PROFESSIONAL DESIGN FIRM NO. 184-001175
EXPIRATION DATE: 4/30/2025

DRAINAGE CERTIFICATION

THE DEVELOPMENT SHALL NOT ADVERSELY INCREASE FLOOD ELEVATIONS OR DECREASE FLOOD CONVEYANCE CAPACITY UPSTREAM OR DOWNSTREAM OF THE PROJECT AREA.

JOHN LaPAGLIA, PE

CONSTRUCTABILITY REVIEW BY

REVIEWER — DATE 7 / 21 / 25
REVIEWER — DATE 8 / 12 / 24

BID SET
7 / 28 / 2025

mkoonce
7/28/2025

FILE NAME: N:\OakLawn\230445\Civil\CVR_230445_01.sht

GENERAL NOTES

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2022; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE LATEST REVISION; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", (IMUTCD); THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS", SSTCI). "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" 2020 EIGHTH EDITION, THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST IDOT HIGHWAY STANDARD.

CODES OF THE IEPA TITLE 35, AND O.S.H.A. SHALL BE ADHERED TO FOR THE CONSTRUCTION OF THIS PROJECT.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS.

ALL REQUIRED PERMITS FROM THE PROPER GOVERNING AGENCY SHALL BE OBTAINED FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHEETING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE AGENCY, AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC.

UTILITIES

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER SERVICE LINES AND OTHER UTILITY LINES ARE APPROXIMATE, AND THE VILLAGE DOES NOT GUARANTEE THEIR ACCURACY, THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT HIS OWN EXPENSE.

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 OR THE VILLAGE. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

BEFORE STARTING ANY EXCAVATING, THE CONTRACTOR SHALL CALL "J.U.L.I.E. AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, CABLE AND GAS FACILITIES AND THE VILLAGE OF OAK LAWN FOR FIELD LOCATIONS OF BURIED WATER, SANITARY AND STORM FACILITIES (48-HOUR ADVANCE NOTIFICATION IS REQUIRED).

THE ENGINEERING DEPARTMENT AT 708-636-4400 AND THE PUBLIC WORKS DEPARTMENT AT 708-499-7756 SHALL BE NOTIFIED 48-HOURS PRIOR TO CONSTRUCTION AND ALL TESTING.

ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND TO THE SATISFACTION OF THE UTILITY OWNER.

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE VILLAGE, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES OF ALL NEW, ADJUSTED OR RECONSTRUCTED STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE, ADJUSTMENT OR RECONSTRUCTION COST.

DRAINAGE STRUCTURE OFFSETS AS SHOWN ON THE PLANS ARE GIVEN TO THE FOLLOWING POINTS:

(A) FOR STRUCTURES FALLING IN THE CURB LINE - TO THE EDGE OF PAVEMENT.
(B) FOR ALL OTHER STRUCTURES - TO THE CENTER OF THE STRUCTURE.

RIM ELEVATIONS SHOWN ON THE PLANS FOR DRAINAGE STRUCTURES IN THE CURB LINE ARE EDGE OF PAVEMENT ELEVATIONS.

WATER, STORM SEWER AND SANITARY SEWER

WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWER.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWER.

ANY EXISTING OR PROPOSED STORM SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE VILLAGE.

THE COST OF CONNECTING EXISTING STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM AND CONNECTING PROPOSED STORM SEWER TO EXISTING STRUCTURES SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR STORM SEWERS. HOWEVER, THE NECESSARY PIPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "STORM SEWER" OF THE TYPE AND SIZE REQUIRED.

THE ENDS OF EXISTING DRAINAGE LINES AND HOLES IN EXISTING MANHOLES WHICH ARE NOT TO BE INCORPORATED INTO THE PROPOSED IMPROVEMENTS DESIGNATED BY THE ENGINEER SHALL BE SEALED WITH A PORTLAND CEMENT MORTAR TO THE SATISFACTION OF THE ENGINEER. COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.

THE CONTRACTOR SHALL CONFIRM ALL EXISTING STORM SEWER PIPE SIZES AND INVERTS PRIOR TO ORDERING STRUCTURES. ANY MODIFICATION OF STRUCTURES DUE TO THE FAILURE OF THE CONTRACTOR TO PERFORM THIS TASK SHALL BE AT THE CONTRACTOR'S EXPENSE AND MAY LEAD TO THE REJECTION OF THE STRUCTURE IN THE FIELD.

THE CONTRACTOR SHALL NOT OPEN OR SHUT ANY WATER VALVES OR FIRE HYDRANTS WITHOUT PRIOR AUTHORIZATION FROM THE VILLAGE WATER DEPARTMENT. UNAUTHORIZED USE SHALL SUBJECT THE OFFENDER TO ARREST AND PROSECUTION.

ANY PORTIONS OF STORM SEWER AND MISSION COUPLINGS NEEDED TO CONNECT (EXTEND) EXISTING STORM SEWER TO PROPOSED STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE STRUCTURE. PROPOSED STORM SEWER SHALL BE STORM SEWER OR THE TYPE AND SIZE REQUIRED.

WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, THE FOLLOWING METHOD SHALL BE USED:

1. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP": MACHINE OR OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.

ALL TRENCHES RESULTING FROM THE CONSTRUCTION OF WATER MAIN AND SEWER AND SERVICE PIPE SHALL BE BACKFILLED WITH COMPACTED TRENCH BACKFILL ACCORDING TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

SEWER CONSTRUCTION-PIPE SEWERS: ALL WORK SHALL CONFORM TO THE PROVISIONS OF THE STANDARD SPECIFICATIONS EXCEPT AS SAME MAY BE MODIFIED BY THE FOLLOWING: CONSTRUCTION SHALL COMMENCE AT THE EXISTING MANHOLES AS SHOWN ON THE PLANS. A TIGHT PLUG SHALL BE PLACED AND LEFT IN PLACE AT THE POINT OF COMMENCEMENT UNTIL THE BALANCE OF THE SEWERS HAVE BEEN COMPLETED AND CHECKED AND ARE READY FOR ACCEPTANCE. ALL WATER FROM THE TRENCH AND PIPELINES ABOVE THE MANHOLES WILL BE PUMPED OUT BY THE CONTRACTOR AND DISPOSED OF IN SUCH A MANNER THAT IT WILL NOT INTERFERE OR DAMAGE THE WORK OF THIS OR OTHER CONTRACTORS. PUMPING SHALL BE CONTINUOUS (24 HOURS A DAY, SEVEN DAYS A WEEK) AS LONG AS SUFFICIENT WATER COLLECTS TO WARRANT THIS. STORM SEWERS IN THE AREA MAY BE USED TO DISPOSE OF THE WATER COLLECTED, IF APPROVED BY THE VILLAGE.

GRANULAR TRENCH BACKFILL FOR SERVICE LINES: THE CONTRACTOR SHALL FURNISH AND INSTALL GRANULAR TRENCH BACKFILL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE IMPROVEMENT PLANS AT ALL LOCATIONS WHERE TRENCHES FOR SANITARY SEWER LINES ARE BENEATH OR WITHIN TWO (2) FEET OF AREAS TO BE PAVED.

BACKFILL

STORM SEWER SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07.

ALL TRENCH BACKFILL QUANTITIES FOR STORM AND SANITARY SEWER HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON INVERT DEPTH FROM EXISTING PAVEMENT.

ANY TRENCH BACKFILL REQUIRED IN EXCESS OF THE QUANTITY ESTABLISHED IN THE TRENCH BACKFILL TABLE, INCLUDING BEDDING MATERIAL, SHALL BE INCLUDED IN THE COST OF THE PROPOSED WATER MAIN PIPE.

ALL SANITARY SEWERS, WATER MAINS AND STORM SEWERS MUST BE PLACED ON PROPERLY COMPACTED BEDDING. BEDDING MATERIAL SHALL BE PLACED A MINIMUM OF 4 INCHES THICK UNDER THE BARREL OF THE PIPE AND FOR PVC PIPE MATERIAL SHALL BE EXTENDED 1' OVER THE TOP OF PIPE. BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING GRADATION CA-7 OR CA-11.

TRENCH BACKFILL MATERIAL (CA-6 CRUSHED STONE) SHALL BE PLACED FROM 12" ABOVE THE PIPE AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY (A.S.T.M. D-1557) OVER ALL UNDERGROUND UTILITIES WHICH ARE CONSTRUCTED UNDER, OR WITHIN 2 FEET OF ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS, OR SIDEWALKS.

SUBSURFACE EXPLORATION DATA

LIMITED INVESTIGATION OF SUBSURFACE CONDITIONS AT THE PROPOSED SITE OF WORK HAS BEEN MADE FOR THE PURPOSE OF DESIGN. THE VILLAGE OF OAK LAWN, TESTING SERVICE CORPORATION, AND CHRISTOPHER B. BURKE ENGINEERING, LTD. ASSUME NO RESPONSIBILITY WHATSOEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THESE PRELIMINARY INVESTIGATIONS, NOR THEIR INTERPRETATION, AND THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED THAT CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE EXISTING THROUGHOUT THE WORK OR ANY PART OF IT, OR THAT UNFORESEEN DEVELOPMENTS MAY OCCUR.

ALL REMOVAL OR EXCAVATION ITEMS BEING DISPOSED OF AT AN UNCONTAMINATED SOIL FILL OPERATION OR CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) FILL SITE SHALL MEET THE REQUIREMENTS OF PUBLIC ACT 96-1416. ALL COSTS ASSOCIATED WITH MEETING THESE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE COST FOR THE ASSOCIATED REMOVAL OR EXCAVATION ITEMS IN THE CONTRACT. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO ALL REQUIRED TESTING, LAB ANALYSIS, CERTIFICATION BY A LICENSED PROFESSINAL ENGINEER, AND STATE AND LOCAL TIPPING FEES.

MISCELLANEOUS

DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. THIS INCLUDES VERIFYING ALL PIPE SIZES FOR PROPOSED STRUCTURES.

ALL SAWCUTTING SHALL BE INCLUDED IN THE REMOVAL ITEMS AND SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL. ANY ITEMS OF WORK REMOVED PRIOR TO SAWCUTTING WILL NOT BE MEASURED FOR PAYMENT.

SIDEWALK RAMPS FOR THE HANDICAPPED SHALL BE INSTALLED AT ALL INTERSECTING STREETS AND DRIVEWAYS AS DIRECTED BY THE ENGINEER (SEE SPECIFICATIONS FOR CONSTRUCTION DETAILS AND IDOT HIGHWAY STANDARDS 424001-08, 424006-02, 424011-02).

DEPRESSED CURB: RAMPS OR DEPRESSED CURBS ACCESIBLE TO THE HANDICAPPED SHALL BE PROVIDED AT ALL CROSSWALKS AND BICYCLE PATHS. NON-ADA DEPRESSED CURB SHALL BE PROVIDED AT ALL ALLEYS OR DRIVEWAYS.

BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED. (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.)

RELOCATING EXISTING SIGNS: EXISTING SIGNS WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED AND REINSTALLED UPON COMPLETION OF CONFLICTING IMPROVEMENTS IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS". THIS WORK SHALL BE INCLUDED IN THE COST OF THE WATER MAIN.

PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED. IF, IN THE ENGINEER'S OPINION, THE WORK IS NOT REQUIRED, THE ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS SHALL BE PROVIDED WHERE OPERATIONS ABUT PUBLIC THROUGHFARES AND ADJACENT PROPERTY.

NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.

BEFORE INITIAL ACCEPTANCE BY THE VILLAGE, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE VILLAGE OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF INITIAL ACCEPTANCE AND SHALL BE HELD RESPONSIBLE FOR ANY DEFECTS IN MATERIAL OR WORKMANSHIP OF THIS WORK DURING THAT PERIOD AND UNTIL FINAL ACCEPTANCE IS MADE.

THE CONTRACTOR SHALL INSTALL EJ DURALAST DETECTABLE WARNING PLATES. THE TILES SHALL BE 24"x30" (2 PER RAMP) WITH DOME SPACING OF 2.35" AND "BRICK RED" IN COLOR. WHERE APPLICABLE, EJ DURALAST RADIUS TRUNCATED DOME DETECTABLE WARNING SYSTEM SHALL BE UTILIZED. THE COLOR SHALL BE "BRICK RED." THE DETECTABLE WARNING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN ON THE PLANS AND DETAILS OR AS REQUIRED BY THE ENGINEER.

ANY AREA OUTSIDE THE PROPERTY LINE USED BY THE GENERAL OR SUB-CONTRACTORS SHALL BE RETURNED TO THE STATE IT WAS FOUND PRIOR TO NEW CONSTRUCTION, EXCEPT WHERE NEW WORK IS SHOWN.

NO CONSTRUCTION ACTIVITY SHALL BEGIN UNTIL ALL PROPER SIGNS AND BARRICADES HAVE BEEN INSTALLED.

CONSTRUCTION WATER FOR THE PROPOSED IMPROVEMENTS WILL BE AVAILABLE TO THE CONTRACTOR AT THE VILLAGE OF OAK LAWN PUBLIC WORKS LOCATED AT 5532 WEST 98TH STREET, OAK LAWN, IL.

CONTRACTOR SHALL FIELD VERIFY ALL STORM SEWER STRUCTURE REPLACEMENT/REHABILATION WITH THE ENGINEER PRIOR TO CONSTRUCTION COMMENCEMENT.

THE CONTRACTOR SHALL ONLY ACCESS THE DETENTION BASIN FROM KILPATRICK AVENUE.

THE CONTRACTOR SHALL ONLY USE PULASKI ROAD, 111TH STREET AND CICERO AVENUE TO ACCESS PROJECT SITE.

THE CONTRACTOR CANNOT PARK OR STAGE EQUIPMENT ON ANY STREETS WHERE WORK IS NOT OCCURRING.

NO CONSTRUCTION EQUIPMENT OR CONSTRUCTION STAGING OF MATERIAL AND VEHICLE PARKING SHALL BE ALLOWED ON SCHOOL DISTRICT PROPERTY.

A 6' TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED AROUND THE ENTIRE PARK/BASIN AND SHALL BE MAINTAINED THROUGH THE DURATION OF THE PROJECT UNTIL THE SEED IS FULLY ESTABLISHED.

THE CONTRACTOR IS RESPONSIBLE FOR TYING IN ALL EXISTING STORM SEWERS TO THE PROPOSED STRUCTURE, UP TO 15 FEET OF NEW SEWER (IF REQUIRED) FOR EACH EXISTING SEWER TYING INTO THE PROPOSED STRUCTURE SHALL BE CONSIDERED INCIDENTAL TO THIS PAY ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE SIZE, INVERTS AND LOCATIONS OF THE EXISTING SEWERS TO BE CONNECTED TO THE PROPOSED STRUCTURE. ANY EXISTING STORM SEWERS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST. EXISTING PIPE CAN BE RE-USED ONLY WITH APPROVAL OF THE ENGINEER. IF DISSIMILAR PIPES ARE NECESSARY TO MAKE THE CONNECTION, A NON-SHEAR RUBBER COUPLING MUST BE USED AT NO ADDITIONAL COST. IN ADDITION, THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING WHICH STRUCTURES REQUIRE PRECAST CONCRETE FLAT SLAB TOPS IN ACCORDANCE WITH IDOT STANDARD 602601.FLAT SLAB TOPS WILL ONLY BE ALLOWED WHERE A CONICAL SECTION CANNOT BE INSTALLED DUE TO A LACK OF CLEARANCE. THIS WORK SHALL BE INCLUDED IN THE COST OF THE SPECIFIED PROPOSED STRUCTURE.

UTILITY COMPANY	DATE SENT TO UTILITY COMPANY	RESPONSE DATE	COMMENTS
ADESTA 565 WILLOWBROOK CENTRE PARKWAY WILLOWBROOK, IL 60527 ATTN: AARON RYDELL EMAIL: aaron.rydell@aus.com PH: 630-962-7139	6/10/2024 6/24/2025 7/22/2025		NO CONFLICTS ANTICIPATED BASED ON PROVIDED MAPS
AT&T (DISTRIBUTION) 1000 COMMERCE DRIVE, FLOOR 1 OAK BROOK, IL 60523 ATTN: JAMEL McGINNIS EMAIL: g11629@att.com EMAIL: jm548w@att.com	6/10/2024	6/12/2024 10/16/2024	AT&T CONTRACTOR TO BE ON-SITE TO BREAK CABLE AT STA. 45+56, 6'RT DURING STORM INSTALLATION
COMCAST 688 INDUSTRIAL DRIVE ELMHURST, IL 60126 ATTN: MARTHA GIERAS EMAIL: martha_gieras@cable.comcast.com PH: 224-229-5862	6/10/2024	7/16/2024	NO CONFLICTS ANTICIPATED (COAX CROSSINGS AT STA. 31+50 & 64+75, +/- 24"-36" DEEP)
* COMMONWEALTH EDISON ELECTRONIC PLAN SUBMITTAL PlanSubmittalsAndMapRequests@exeloncorp.com ATTN: LISA ARGAST EMAIL: lisa.argast@ComEd.com PH: 630-576-7094	6/10/2024	7/16/2024	NO CONFLICTS ANTICIPATED (RE-ROUTED STORM AT STA. 72+07, 25' RT TO AVOID POLE CONFLICT)
NICOR GAS 1844 FERRY ROAD NAPERVILLE, IL 60563 ATTN: CHARLES "CHIP" PARROTT PH: 630-388-3319 EMAIL: gasmaps@southernco.com	6/10/2024	8/30/2024	NICOR (ENTRUST) ENGINEERS REVIEWING FOR POTENTIAL CONFLICTS
UNITE PRIVATE NETWORK ATTN: BRYAN FOSTER EMAIL: bryan.foster@upnfiber.com EMAIL: upngis@upnfiber.com PH: 816-490-0894	6/10/2024 6/24/2025	6/25/2025	ENGINEERS REVIEWING FOR POTENTIAL CONFLICTS

*NO COMED TRANSMISSION (69kV AND ABOVE) FACILITIES IN PROJECT AREA.

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

CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME: N:\OakLawn\230445\Civil\NOT_230445_01.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	1'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
GENERAL NOTES

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 2 OF 75
DRAWING NO. 2

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 (LATEST EDITION), 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;
   * VILLAGE OF OAK LAWN 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 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).

2. THE VILLAGE OF OAK LAWN ENGINEERING DEPARTMENT AND PUBLIC 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.

3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

2. 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 LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.

6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.

8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.

9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.

10. 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 MUNICIPALITY 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 SPECIFICATIONS	JOINT SPECIFICATIONS
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	ANSI 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-3035	ASTM D-3261,F-2620 (HEAT FUSION) 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 SPECIFICATIONS	JOINT SPECIFICATIONS
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 ⅛ 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 ("SHEWER-TAP" MACHINE OR SIMILAR) 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 "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.

12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATER MAINS 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 WATER MAIN 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. EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.

3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

5. 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.

6. 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.

7. 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.

8. 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.

9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.

10. 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.

11. 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.

12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).

13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

14. 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.

15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.

16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.

17. 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.

18. 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.

19. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATER MAINS 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.

20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.

21. 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.

22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.

23. 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.

ADDITIONAL MWRD NOTES:

1. SCOTT GALLOWAY (GALLOWAYS2@MWRD.ORG ; 708-588-3599), MWRD INSPECTOR, MUST BE NOTIFIED AT LEAST 48-HOURS PRIOR TO:
   A. AFTER MOBILIZATION AND INSTALLMENT OF INITIAL EROSION AND SEDIMENT CONTROL PRACTICES, PRIOR TO ANY SOIL DISTURBANCE.
   B. DURING EXCAVATION FOR THE CONSTRUCTION OF QUALIFIED SEWER CONSTRUCTION;
2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SIGNED AND SEALED AS-BUILT DRAWINGS BY A PE/PLS.
3. NO SANITARY SEWER SHALL BE PUT INTO SERVICE UNTIL APPROVED BY MWRD.

TECHNICAL GUIDANCE MANUAL

10/13/2022

MWRD GENERAL NOTES

STD. DWG. NO.18

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

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME N:\OakLawn\230445\Civil\NOT_230445_01.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	N.T.S.
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
MWRD GENERAL NOTES

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 3 OF 75
DRAWING NO. **3**

SUMMARY OF QUANTITIES

CODE	ITEMS	UNIT	DETENTION BASIN QUANTITY	ROADWAY / MAINLINE QUANTITY	CONSTRUCTION TOTALS QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	75	0	**75**
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	50	0	**50**
*20101200	TREE ROOT PRUNING	EACH	0	50	**50**
20200100	EARTH EXCAVATION	CU YD	87,000	0	**87,000**
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	500	1,250	**1,750**
*20800150	TRENCH BACKFILL, SPECIAL	CU YD	250	18,250	**18,500**
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1,500	3,750	**5,250**
*21101600	TOPDRESS AND RESTORE PARKWAY DAMAGE	SQ YD	0	7,000	**7,000**
21101505	TOPSOIL EXCAVATION AND PLACEMENT, 12"	CU YD	12,500	0	**12,500**
*25000110	SEEDING, CLASS 1A	SQ YD	0	15,000	**15,000**
*25000100	SEEDING, ATHLETIC FIELDS	SQ YD	29,500	0	**29,500**
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	250	0	**250**
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	250	0	**250**
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	250	0	**250**
25100630	EROSION CONTROL BLANKET	SQ YD	27,500	0	**27,500**
25200200	SUPPLEMENTAL WATERING	UNIT	1,875	0	**1,875**
28000400	PERIMETER EROSION BARRIER	FOOT	2,750	0	**2,750**
28000500	CULVERT INLET PROTECTION	EACH	1	0	**1**
*28000510	INLET FILTERS	EACH	0	125	**125**
*30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	500	1,250	**1,750**
40300200	BITUMINOUS MATERIALS (PRIME COAT)	POUND	0	17,000	**17,000**
40600827	LEVELING BINDER (MACHINE METHOD), IL 9.5mm, N50 - 0.75"	TON	0	1,250	**1,250**
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 1.5"	TON	0	2,250	**2,250**
*42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SPECIAL)	SQ FT	0	25,000	**25,000**
*42400800	DETECTABLE WARNINGS	SQ FT	0	1,250	**1,250**
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	0	25,000	**25,000**
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	0	500	**500**
44000600	SIDEWALK REMOVAL	SQ FT	0	25,000	**25,000**
*44201711	CLASS D PATCHES, 5" (SPECIAL)	SQ YD	0	13,500	**13,500**
*54001001	BOX CULVERT END SECTION W/ GRATE, 10' x 3'	EACH	1	0	**1**
54011003	PRECAST CONCRETE BOX CULVERTS, 10' x 3'	FOOT	30	0	**30**
550A0340	STORM SEWERS, CLASS A, TYPE 2, 12"	FOOT	0	1,300	**1,300**
550A0360	STORM SEWERS, CLASS A, TYPE 2, 15"	FOOT	0	300	**300**
550A0430	STORM SEWERS, CLASS A, TYPE 2, 30"	FOOT	0	100	**100**
550A0480	STORM SEWERS, CLASS A, TYPE 2, 48"	FOOT	0	3,650	**3,650**
550A5550	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 72" (91" x 58")	FOOT	0	2,125	**2,125**
*55100100	STORM SEWER REMOVAL	FOOT	575	2,175	**2,750**
*56100600	ADJUSTING WATER MAIN 6"	FOOT	0	200	**200**
*56100700	ADJUSTING WATER MAIN 8"	FOOT	0	100	**100**
*56100900	ADJUSTING WATER MAIN 12"	FOOT	0	50	**50**
*56300300	ADJUSTING WATER SERVICE LINES	FOOT	0	575	**575**
*60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	6,000	0	**6,000**
*60108300	PIPE UNDERDRAINS 8" (SPECIAL)	FOOT	1,350	0	**1,350**
*60108500	PIPE UNDERDRAINS 12" (SPECIAL) (PERFORATED)	FOOT	1,500	0	**1,500**
*60108500	PIPE UNDERDRAINS 12" (SPECIAL) (SOLID)	FOOT	750	0	**750**
*60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, EJ 7010 FRAME AND GRATE	EACH	0	40	**40**
*60203805	CATCH BASINS, TYPE A, 5'-DIAMETER, EJ 7010 FRAME AND GRATE	EACH	0	2	**2**
*60206905	CATCH BASINS, TYPE C, EJ 7010 FRAME AND LID	EACH	0	8	**8**
*60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	0	4	**4**
*60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	0	18	**18**
*60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	0	1	**1**
*60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	0	1	**1**
*60224494	MANHOLES, TYPE A, 10'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	0	**3**
*60224494	MANHOLES, TYPE A, 10'-DIAMETER, EJ 7010 FRAME AND GRATE	EACH	5	0	**5**
*60234200	INLETS, TYPE A, EJ 7010 FRAME AND LID	EACH	0	21	**21**
*60400105	FRAMES, TYPE 1	EACH	0	10	**10**
*60603500	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	0	5,500	**5,500**
*66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100.0	150.0	**250**
*66900530	SOIL DISPOSAL ANALYSIS	EACH	2.0	3.0	**5**
*66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L. SUM	1	1	**1**
*66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L. SUM	0.5	0.5	**1**
*66901006	REGULATED SUBSTANCES MONITORING	CAL DAY	3.0	7.0	**10**
67100100	MOBILIZATION	L. SUM	1	1	**1**
*70100100	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L. SUM	1	1	**1**
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	0	1,750	**1,750**
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	0	2,750	**2,750**
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	0	600	**600**

CODE	ITEMS	UNIT	DETENTION BASIN QUANTITY	ROADWAY / MAINLINE QUANTITY	CONSTRUCTION TOTALS QUANTITY
*X0322881	TREE TRIMMING	EACH	0	50	**50**
*X0327067	DIP CASING PIPE 4"	FOOT	0	100	**100**
*X0327067	DIP CASING PIPE 8"	FOOT	0	100	**100**
*X1200087	JUNCTION CHAMBER NO. 1, 28' x 14', TYPE 1 FRAME, CLOSED LID	EACH	0	1	**1**
*X1200092	JUNCTION CHAMBER NO. 2, 30' x 8', TYPE 1 FRAME, CLOSED LID	EACH	0	1	**1**
*X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	0	15	**15**
*X4023000	TEMPORARY ACCESS (ROAD)	EACH	0	15	**15**
*X0327611	BRICK PAVER REMOVAL AND REINSTALLATION	SQ FT	0	100	**100**
*Z0013798	CONSTRUCTION LAYOUT	L. SUM	1	1	**1**
*X0326862	STRUCTURES TO BE ADJUSTED	EACH	0	15	**15**
*X0326862	STRUCTURES TO BE ADJUSTED, SPECIAL	EACH	0	5	**5**
*Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	0	61	**61**
*XX007026	FENCE REMOVAL AND SALVAGE	FOOT	0.0	1,400.0	**1,400**
*Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	0	500	**500**
*Z0055905	TEMPORARY CONSTRUCTION FENCE, 6'	FOOT	2,750	0	**2,750**
*Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	0	100	**100**
*Z0056669	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 15"	FOOT	0	75	**75**
*Z0056672	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 24"	FOOT	0	50	**50**
*Z0056675	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 30"	FOOT	0	15	**15**
*Z0056678	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 36"	FOOT	0	50	**50**
*Z0056684	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 48"	FOOT	650	650	**1,300**
*Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	250	0	**250**
*NA	ADJUSTING SANITARY SERVICE LINE	FOOT	0	1,350	**1,350**
*NA	AS-BUILT DRAWINGS	L. SUM	1	1	**1**
*NA	ITEMS AS ORDERED BY THE ENGINEER	DOLLAR	150,000	150,000	**300,000**
	FIELD LANDSCAPING/AMENITIES				
*NA	AGLIME INFIELD MIX	TON	1,303	0	**1,303**
*NA	16' HIGH 3 PANEL VINYL COATED BACKSTOP	EACH	3	0	**3**
*NA	4' HIGH VINYL COATED CHAINLINK FENCE	FOOT	64	0	**64**
*NA	6' HIGH VINYL COATED CHAINLINK FENCE	FOOT	64	0	**64**
*NA	8' HIGH VINYL COATED CHAINLINK FENCE	FOOT	96	0	**96**
*NA	12' HIGH VINYL COATED CHAINLINK FENCE	FOOT	64	0	**64**
*NA	15' LONG METAL PLAYERS BENCHES	EACH	11	0	**11**
*NA	CLAY BRICKS FOR PITCHERS MOUND	SQ FT	55	0	**55**
*NA	4 ROW, 12' ALUMINUM BLEACHER	EACH	3	0	**3**
*NA	1 PAIR OF FOOTBALL GOAL POSTS	EACH	1	0	**1**
A2000120	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	0	**2**
A2008120	TREE, TILIA CORDATA GREENSPIRE (GREENSPIRE LITTLE LEAF LINDEN), 2- 1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	0	**2**
A2004622	TREE, GLEDITSIA TRIACANTHOS INERMIS (THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	0	**2**
A2007620	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	0	**2**
A2005960	TREE, PLATANUS X ACERIFOLIA MORTON CIRCLE (LONDON PLANETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	0	**2**
	FIELD STAIRS AND HANDRAILS				
20700220	POROUS GRANULAR EMBANKMENT	CU YD	90	0	**90**
50200100	STRUCTURE EXCAVATION	CU YD	830	0	**830**
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	245	0	**245**
50300225	CONCRETE STRUCTURES	CU YD	115	0	**115**
50300300	PROTECTIVE COAT	SQ YD	1,000	0	**1,000**
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9,910	0	**9,910**
50901760	PIPE HANDRAIL	FOOT	376	0	**376**
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	5,650	0	**5,650**
*Z0054400	STRUCTURAL FILL	CU YD	845	0	**845**
*NA	LOCATING UNDERGROUND UTILITY	EACH	0	15	**15**
*NA	NYOPLAST DRAIN BASIN, 24"	EACH	14	0	**14**
*NA	PCC DRIVEWAY PAVEMENT	SQ YD	300	0	**300**
*NA	SANITARY MANHOLE, 4' DIAMETER, TYPE A, TYPE 1 FRAME CLOSED LID	EACH	0	2	**2**
*NA	SANITARY SEWER, 8" PVC SDR-26	FOOT	0	250	**250**
*NA	SANITARY SERVICE CLEANOUT	EACH	0	4	**4**
*NA	SANITARY SERVICE CONNECTION	EACH	0	4	**4**
*NA	SANITARY SERVICE LINE, 6"	FOOT	0	160	**160**
*NA	TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION	FOOT	0	4,000	**4,000**
*NA	TIDEFLEX CHECK VALVE, 24"	EACH	1	0	**1**
*NA	WATER MAIN LINE STOP, 6"	EACH	0	1	**1**
*NA	WATER MAIN LINE STOP, 8"	EACH	0	1	**1**
*NA	WATER MAIN LINE STOP, 12"	EACH	0	1	**1**

*INDICATES SPECIAL PROVISION

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CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME: N:\OakLawn\230445\Civil\S00_230445_01.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	N.T.S.
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
SUMMARY OF QUANTITIES

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 4 OF 75
DRAWING NO. **4**

POLARIS PARK EARTHWORK SCHEDULE (DETENTION BASIN)

STA.	DIST. (FT)	EARTH EXCAVATION			FURNISHED EMBANKMENT			TOP SOIL PLACEMENT			TOP SOIL STRIPPING		
		AREA (SF)	AVE. AREA (SF)	VOLUME (CY)	AREA (SF)	AVE. AREA (SF)	VOLUME (CY)	AREA (SF)	AVE. AREA (SF)	VOLUME (CY)	AREA (SF)	AVE. AREA (SF)	VOLUME (CY)
100+00.00		0.00			0.00			0.00			0.00		
	81.57		1013.50	3061.90		0.00	0.00		204.00	616.31		284.00	858.00
100+55.64		2027.00			0.00			408.00			568.00		
	25.93		3105.50	2982.43		0.00	0.00		513.50	493.15		577.00	554.13
100+81.57		4184.00			0.00			619.00			586.00		
	18.43		4194.50	2863.13		0.00	0.00		619.00	422.52		586.50	400.34
101+00.00		4205.00			0.00			619.00			587.00		
	50.00		4237.00	7846.30		0.00	0.00		618.50	1145.37		586.50	1086.11
101+50.00		4269.00			0.00			618.00			586.00		
	50.00		4177.50	7736.11		0.00	0.00		619.50	1147.22		586.50	1086.11
102+00.00		4086.00			0.00			621.00			587.00		
	55.93		4018.00	8323.21		0.00	0.00		577.00	1195.24		593.00	1228.39
102+55.93		3950.00			0.00			533.00			599.00		
	48.93		3972.00	7198.15		0.00	0.00		555.50	1006.69		593.00	1074.65
103+04.86		3994.00			0.00			578.00			587.00		
	45.14		3974.00	6643.94		0.00	0.00		588.50	983.88		587.00	981.38
103+50.00		3954.00			0.00			599.00			587.00		
	50.00		3820.50	7075.00		0.00	0.00		598.00	1107.41		587.00	1087.04
104+00.00		3687.00			0.00			597.00			587.00		
	51.93		3577.00	6879.76		0.00	0.00		565.00	1086.68		593.50	1141.50
104+51.93		3467.00			0.00			533.00			600.00		
	48.07		3463.00	6165.42		0.00	0.00		576.50	1026.38		593.50	1056.65
105+00.00		3459.00			0.00			620.00			587.00		
	50.00		3468.50	6423.15		0.00	0.00		619.50	1147.22		586.50	1086.11
105+50.00		3478.00			0.00			619.00			586.00		
	50.00		3531.50	6539.81		0.00	0.00		617.50	1143.52		585.50	1084.26
106+00.00		3585.00			0.00			616.00			585.00		
	18.43		3610.00	2464.16		0.00	0.00		616.50	420.82		585.00	399.32
106+18.43		3635.00			0.00			617.00			585.00		
	25.79		2740.50	2617.68		0.00	0.00		507.50	484.76		578.00	552.10
106+44.22		1846.00			0.00			398.00			571.00		
	55.78		923.00	1906.85		0.00	0.00		199.00	411.12		285.50	589.82
107+00.00		0.00			0.00			0.00			0.00		
				TOTAL =	**86,727.01**		**TOTAL =**	**0.00**		**TOTAL =**	**13,838.30**		**TOTAL =**	**14,265.90**

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9446 S RAYMOND AVENUE
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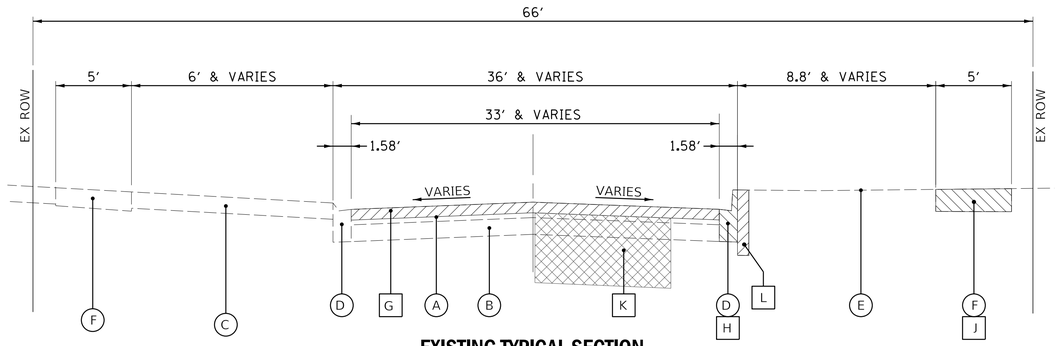
NO.	DATE	NATURE OF REVISION	CHKD.

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DWN.	MAK	
CHKD.	LMF	
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PLOT DATE:	7/28/2025	
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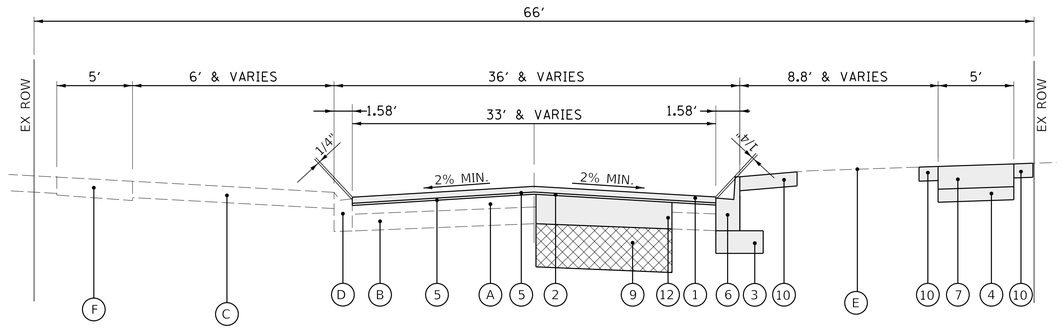
TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
EARTHWORK SCHEDULE
POLARIS PARK

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	5 OF 75
DRAWING NO.	5



EXISTING TYPICAL SECTION

KILPATRICK AVENUE (STA 19+23 TO STA 45+00)



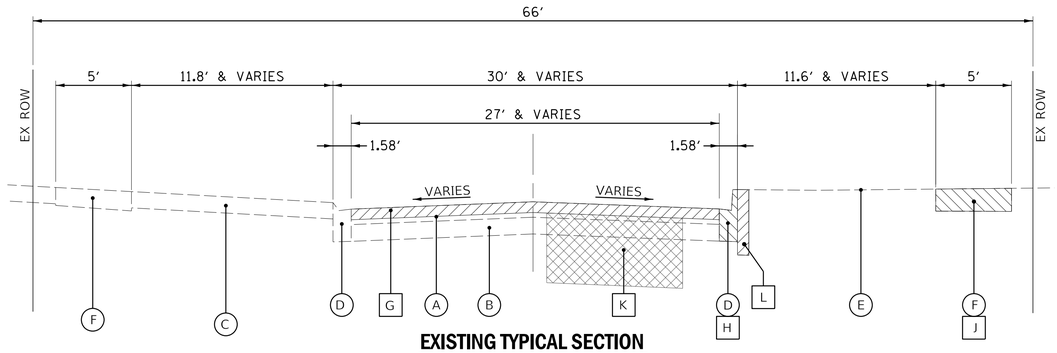
PROPOSED TYPICAL SECTION

KILPATRICK AVENUE (STA 19+23 TO STA 45+00)

NOTE:

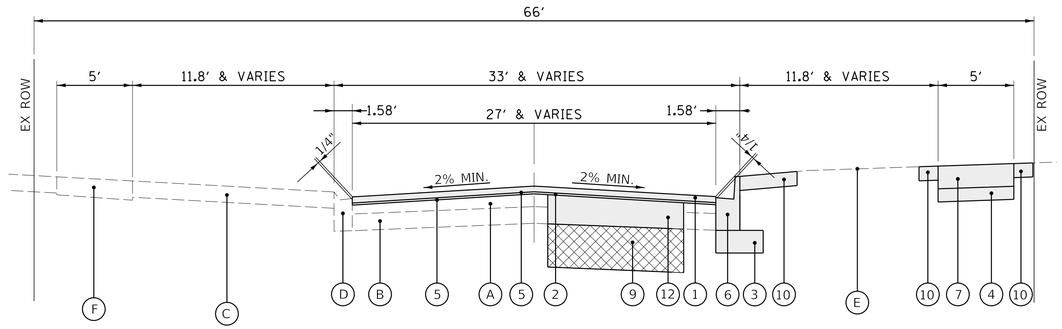
WHERE PROPOSED UTILITIES ARE TO BE INSTALLED (STORM, SANITARY, OR WATER MAIN), THE REMOVAL OF THE EXISTING ASPHALT PAVEMENT SECTION SHALL BE INCLUDED IN THE COST OF THE PROPOSED UTILITY INSTALLATION AND CLASS D PATCHING PAY ITEMS. THIS IS APPLICABLE FOR ALL PROJECT LOCATIONS.

THE CONTRACTOR SHALL COMPLETE ALL UNDERGROUND UTILITY INSTALLATION AND BACKFILL TO EXISTING ADJACENT FINISHED GRADE PRIOR TO REMOVING ANY EXISTING PAVEMENT OUTSIDE OF THE TRENCH LIMITS. THE EXISTING PAVEMENT CANNOT BE REMOVED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



EXISTING TYPICAL SECTION

105TH STREET (STA 51+05 TO STA 88+81)



PROPOSED TYPICAL SECTION

105TH STREET (STA 51+05 TO STA 88+81)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS	QMP
GRIND AND OVERLAY PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50, 1 1/2"	4% @ 50 GYR	LR 1030-2
LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5 mm) 3/4"	4% @ 50 GYR	
CLASS D PATCHING		
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N50, 5" (2 LIFTS)	4% @ 50 GYR	

NOTES:
1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
4. ANY EXCAVATION OF EXISTING ASPHALT OR STONE NECESSARY TO OBTAIN THE NECESSARY DEPTH FOR THE PROPOSED PAVEMENT SHALL BE PAID FOR AS PAVEMENT REMOVAL OF THE DEPTH SPECIFIED PER THE SPECIFICATION.
5. ANY EXCAVATION OF DIRT/CLAY NECESSARY TO OBTAIN THE NECESSARY DEPTH FOR THE PROPOSED PAVEMENT SHALL BE PAID FOR AS EARTH EXCAVATION.
6. ALL UNDERCUTTING SHALL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

LEGEND

EXISTING

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT
- (B) EXISTING AGGREGATE BASE COURSE
- (C) EXISTING DRIVEWAY
- (D) EXISTING CURB AND GUTTER
- (E) EXISTING TOPSOIL AND SODDING
- (F) EXISTING PCC SIDEWALK
- [G] HMA SURFACE REMOVAL, 2"
- [H] COMBINATION CURB AND GUTTER REMOVAL (SPOT REPAIR) ••
- [I] DRIVEWAY PAVEMENT REMOVAL ••
- [J] SIDEWALK REMOVAL ••
- [K] EXCAVATION FOR UTILITY INSTALLATION
- [L] EARTH EXCAVATION (INCIDENTAL TO CURB AND GUTTER REMOVAL)
- ITEM TO BE REMOVED
- •• AS DETERMINED BY THE ENGINEER

PROPOSED

- (1) HMA SURFACE COURSE, MIX "D", N50, 1 1/2"
- (2) LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- (3) AGGREGATE BASE COURSE, TYPE B, 4" (INCIDENTAL)
- (4) AGGREGATE BASE COURSE, TYPE B, 2" (INCIDENTAL)
- (5) BITUMINOUS MATERIALS (TACK COAT)
- (6) COMBINATION CONCRETE CURB AND GUTTER, MATCH EX. TYPE
- (7) PCC SIDEWALK, 5 INCH (6 INCH @ DRIVEWAYS)
- (8) DRIVEWAY PAVEMENT
- (9) TRENCH BACKFILL FROM UTILITY INSTALLATION
- (10) 4" TOPSOIL, SODDING
- (11) NOT USED
- (12) CLASS D PATCH, 5" (SPECIAL)

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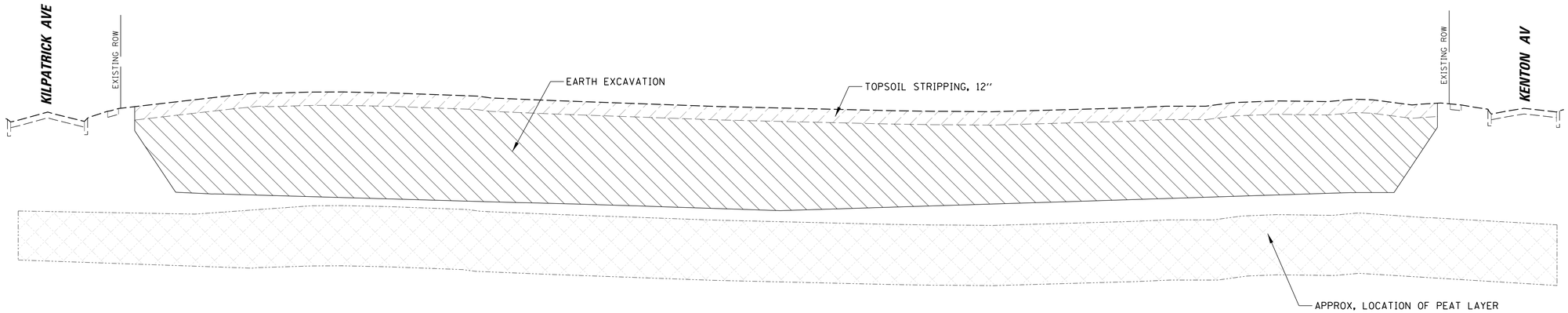
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CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

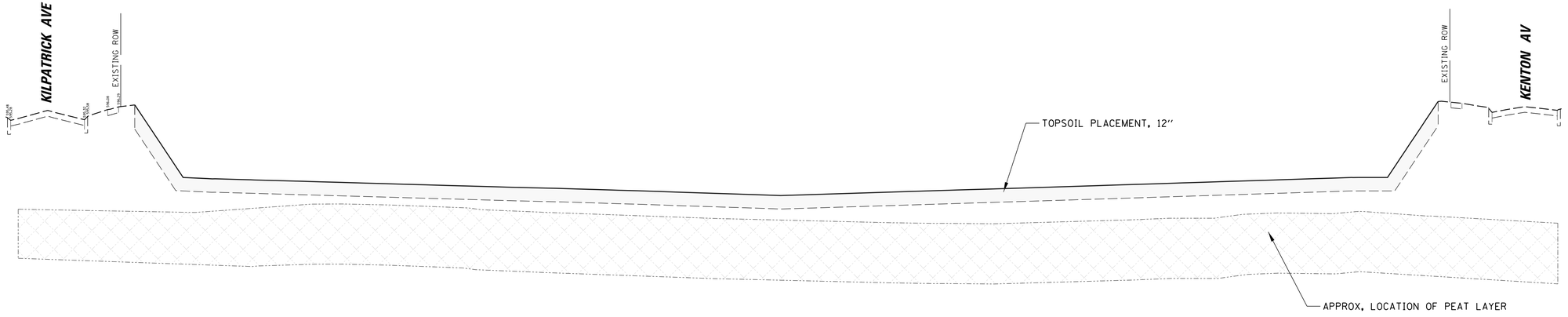
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
TYPICAL SECTIONS

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	6 OF 75
DRAWING NO.	6



EXISTING TYPICAL SECTION

DETENTION BASIN



PROPOSED TYPICAL SECTION

DETENTION BASIN

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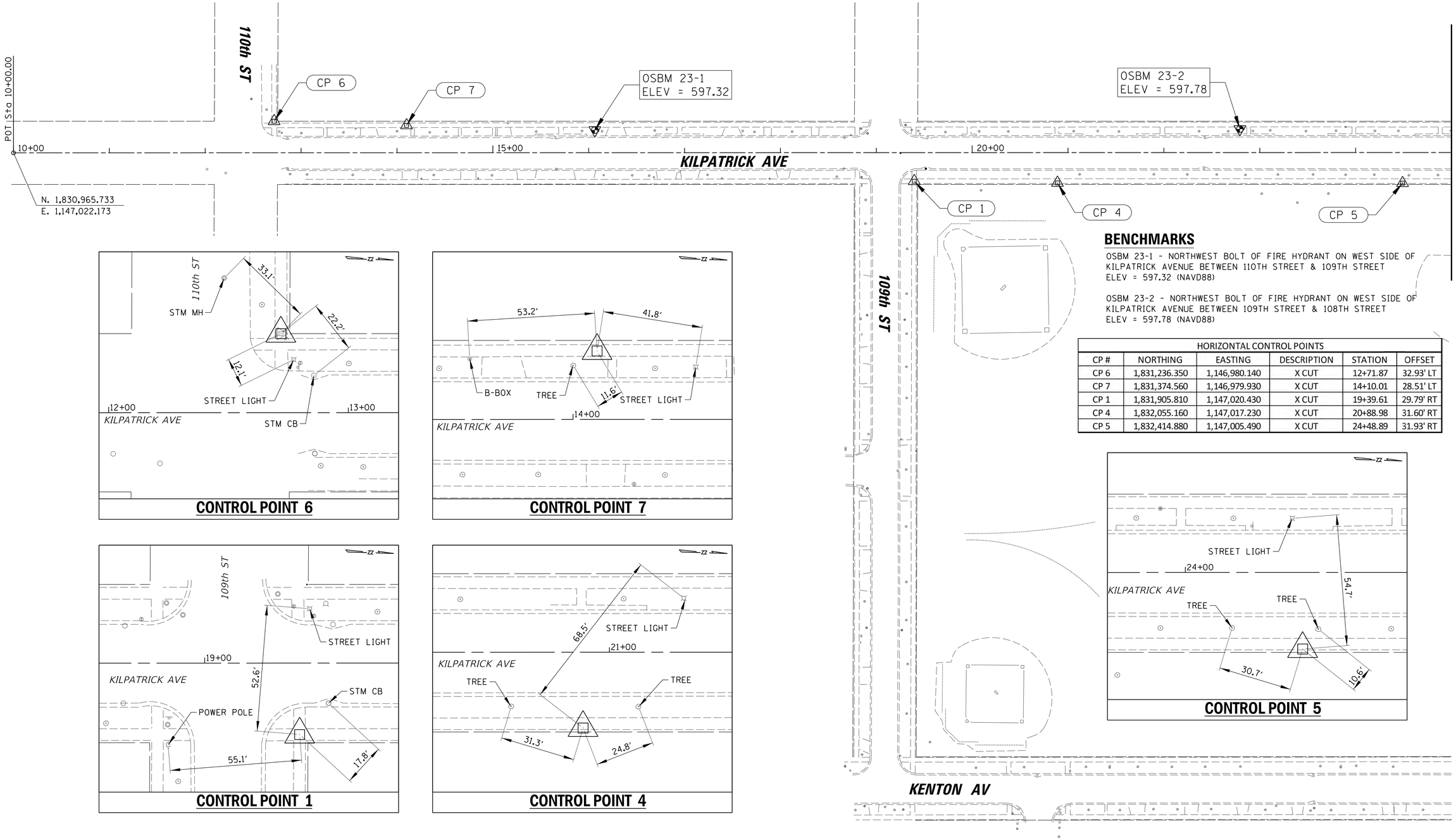
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DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
TYPICAL SECTIONS

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	7 OF 75
DRAWING NO.	7



BENCHMARKS

OSBM 23-1 - NORTHWEST BOLT OF FIRE HYDRANT ON WEST SIDE OF KILPATRICK AVENUE BETWEEN 110TH STREET & 109TH STREET
ELEV = 597.32 (NAVD88)

OSBM 23-2 - NORTHWEST BOLT OF FIRE HYDRANT ON WEST SIDE OF KILPATRICK AVENUE BETWEEN 109TH STREET & 108TH STREET
ELEV = 597.78 (NAVD88)

HORIZONTAL CONTROL POINTS					
CP #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
CP 6	1,831,236.350	1,146,980.140	X CUT	12+71.87	32.93' LT
CP 7	1,831,374.560	1,146,979.930	X CUT	14+10.01	28.51' LT
CP 1	1,831,905.810	1,147,020.430	X CUT	19+39.61	29.79' RT
CP 4	1,832,055.160	1,147,017.230	X CUT	20+88.98	31.60' RT
CP 5	1,832,414.880	1,147,005.490	X CUT	24+48.89	31.93' RT

CONTROL POINT 6

CONTROL POINT 7

CONTROL POINT 1

CONTROL POINT 4

CONTROL POINT 5

50 0 50
SCALE IN FEET

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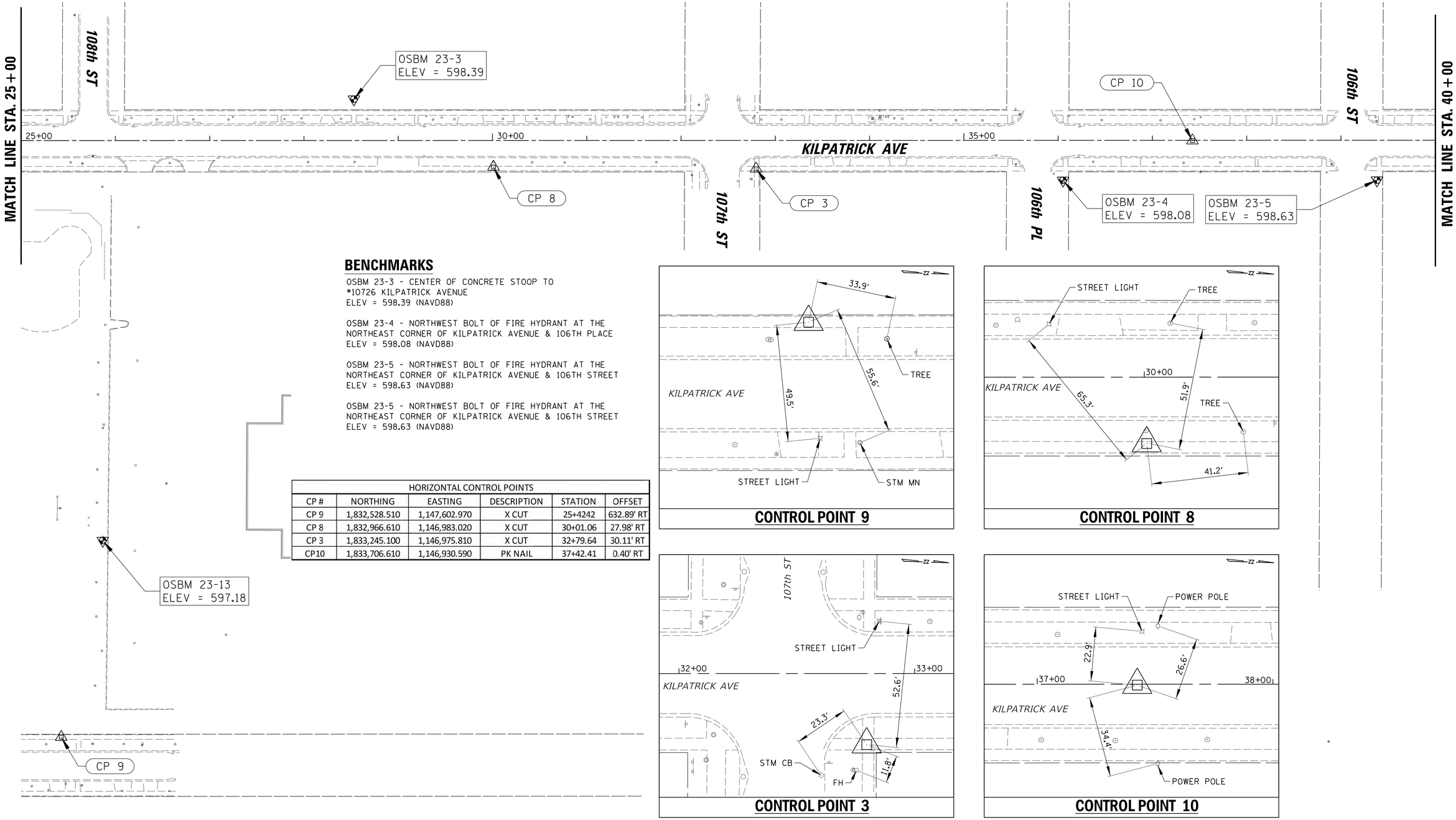
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	50'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
ALIGNMENT, TIES AND BENCHMARKS

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 8 OF 75
DRAWING NO. 8



BENCHMARKS

OSBM 23-3 - CENTER OF CONCRETE STOOP TO
#10726 KILPATRICK AVENUE
ELEV = 598.39 (NAVD88)

OSBM 23-4 - NORTHWEST BOLT OF FIRE HYDRANT AT THE
NORTHEAST CORNER OF KILPATRICK AVENUE & 106TH PLACE
ELEV = 598.08 (NAVD88)

OSBM 23-5 - NORTHWEST BOLT OF FIRE HYDRANT AT THE
NORTHEAST CORNER OF KILPATRICK AVENUE & 106TH STREET
ELEV = 598.63 (NAVD88)

OSBM 23-5 - NORTHWEST BOLT OF FIRE HYDRANT AT THE
NORTHEAST CORNER OF KILPATRICK AVENUE & 106TH STREET
ELEV = 598.63 (NAVD88)

HORIZONTAL CONTROL POINTS					
CP #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
CP 9	1,832,528.510	1,147,602.970	X CUT	25+4242	632.89' RT
CP 8	1,832,966.610	1,146,983.020	X CUT	30+01.06	27.98' RT
CP 3	1,833,245.100	1,146,975.810	X CUT	32+79.64	30.11' RT
CP10	1,833,706.610	1,146,930.590	PK NAIL	37+42.41	0.40' RT

CONTROL POINT 9

CONTROL POINT 8

CONTROL POINT 3

CONTROL POINT 10

50 0 50
SCALE IN FEET

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Rosemont, Illinois 60018
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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

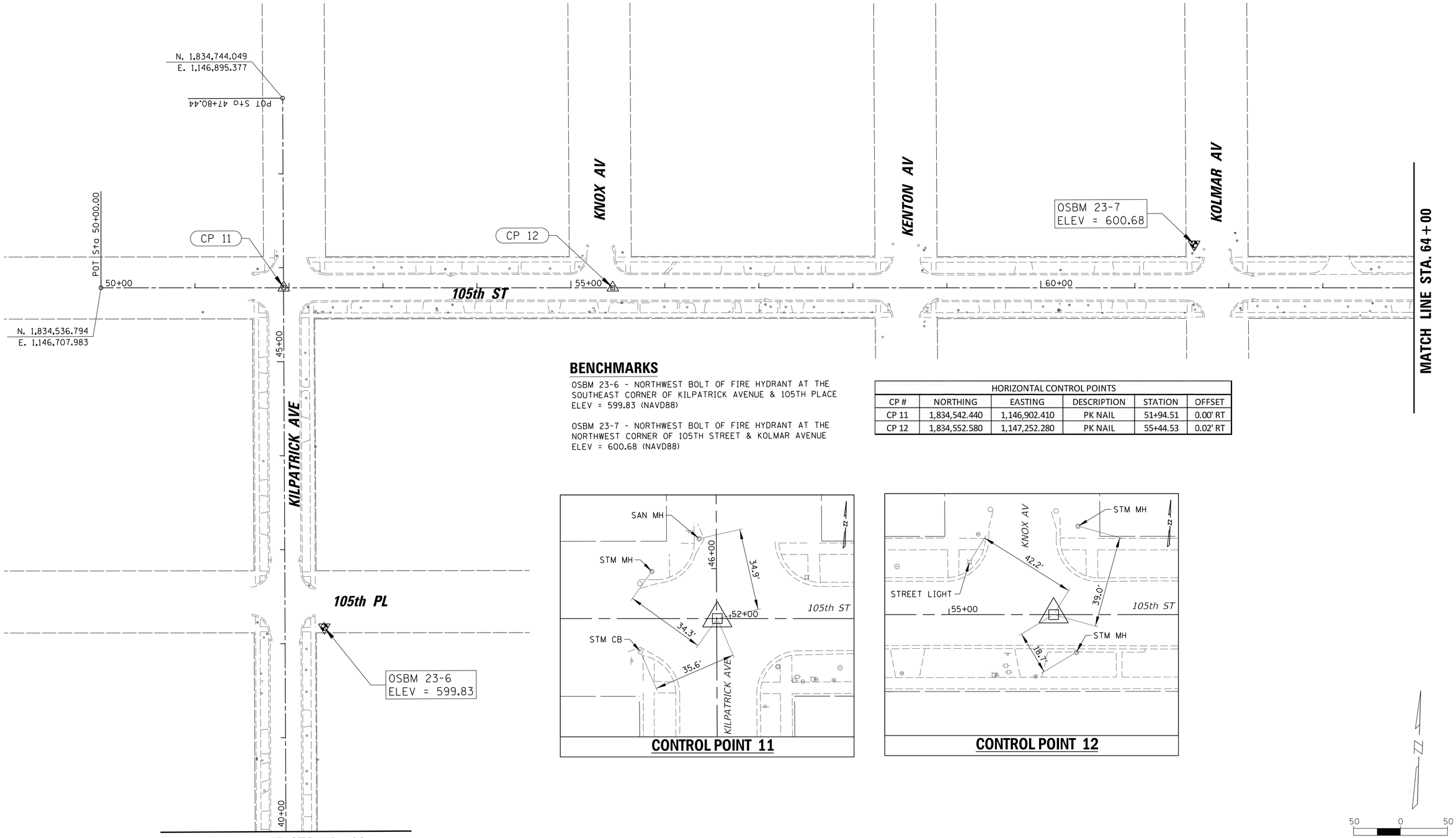
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME: N:\OakLawn\230445\Civil\BNH_230445_02.sht

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DWN.	MAK
CHKD.	LMF
SCALE:	50'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
ALIGNMENT, TIES AND BENCHMARKS

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	9 OF 75
DRAWING NO.	9



BENCHMARKS

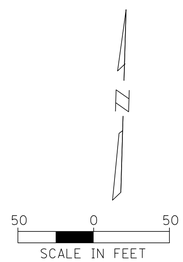
OSBM 23-6 - NORTHWEST BOLT OF FIRE HYDRANT AT THE SOUTHEAST CORNER OF KILPATRICK AVENUE & 105TH PLACE
ELEV = 599.83 (NAVD88)

OSBM 23-7 - NORTHWEST BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 105TH STREET & KOLMAR AVENUE
ELEV = 600.68 (NAVD88)

HORIZONTAL CONTROL POINTS					
CP #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
CP 11	1,834,542.440	1,146,902.410	PK NAIL	51+94.51	0.00' RT
CP 12	1,834,552.580	1,147,252.280	PK NAIL	55+44.53	0.02' RT

CONTROL POINT 11

CONTROL POINT 12



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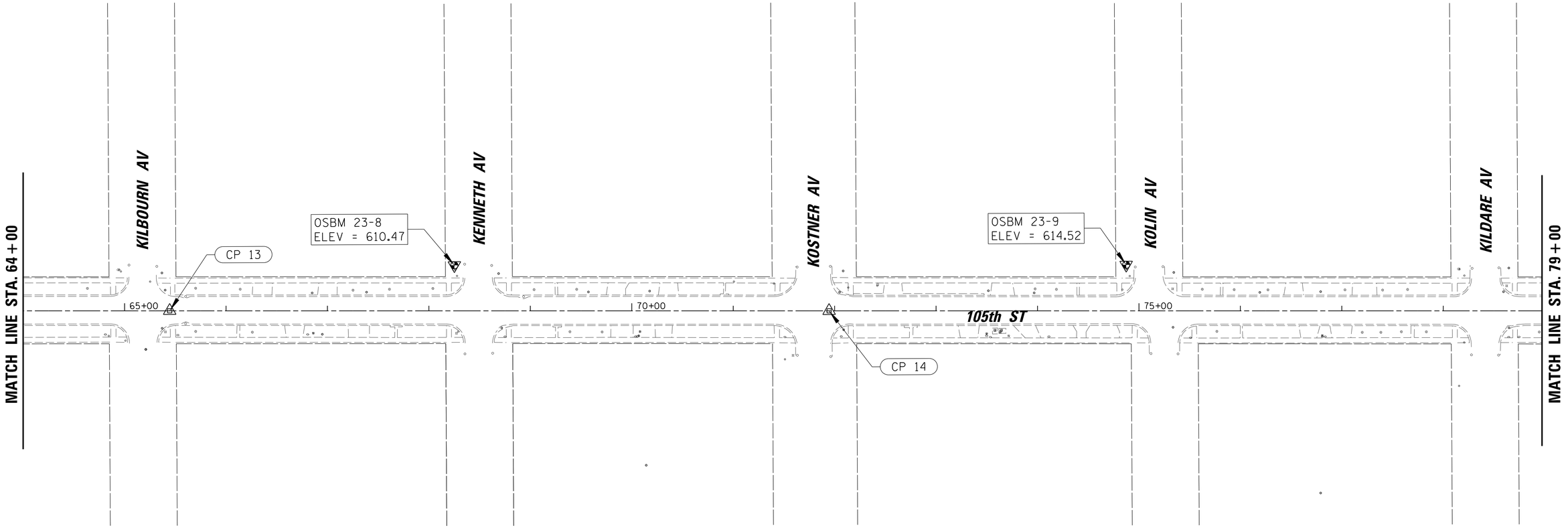
NO.	DATE	NATURE OF REVISION	CHKD.

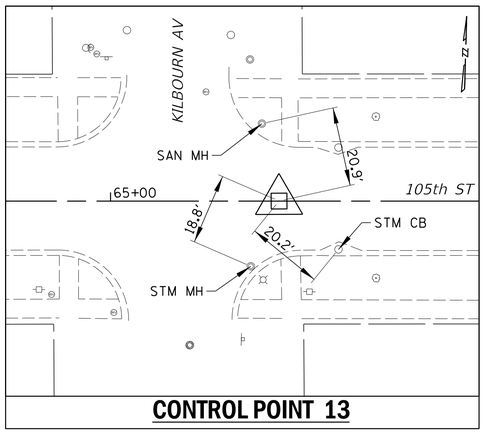
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DWN.	MAK
CHKD.	LMF
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CAD USER:	mkoonce
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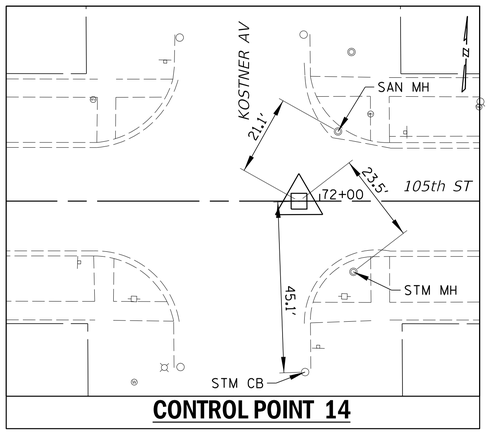
TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
ALIGNMENT, TIES AND BENCHMARKS

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	10 OF 75
DRAWING NO.	10





CONTROL POINT 13



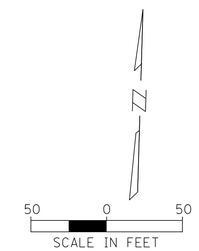
CONTROL POINT 14

BENCHMARKS

OSBM 23-8 - NORTHWEST BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 105TH STREET & KENNETH AVENUE
ELEV = 610.47 (NAVD88)

OSBM 23-9 - NORTHWEST BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 105TH STREET & KOLIN AVENUE
ELEV = 614.52 (NAVD88)

HORIZONTAL CONTROL POINTS					
CP #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
CP 13	1,834,581.670	1,148,251.810	PK NAIL	65+44.48	0.03' LT
CP 14	1,834,600.500	1,148,901.610	PK NAIL	71+94.55	0.01' RT



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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

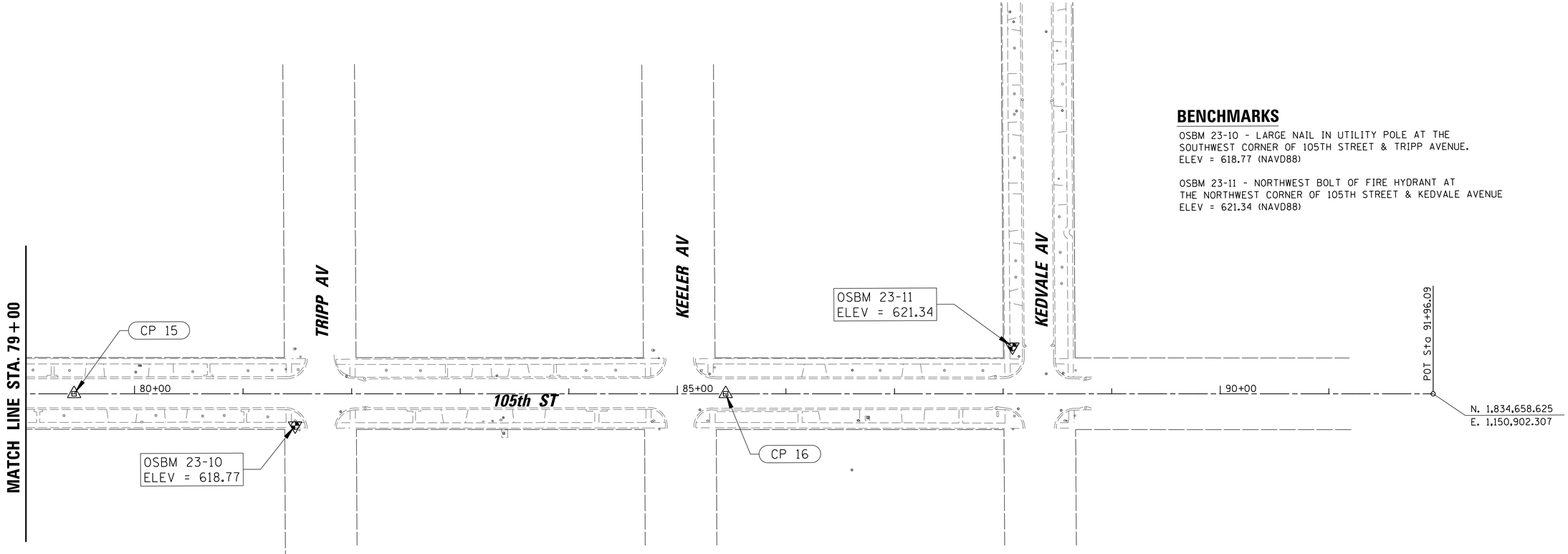
NO.	DATE	NATURE OF REVISION	CHKD.

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DWN.	MAK
CHKD.	LMF
SCALE:	50'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
ALIGNMENT, TIES AND BENCHMARKS

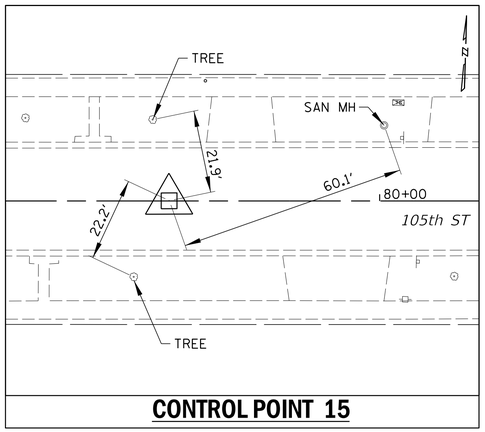
PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	11 OF 75
DRAWING NO.	11



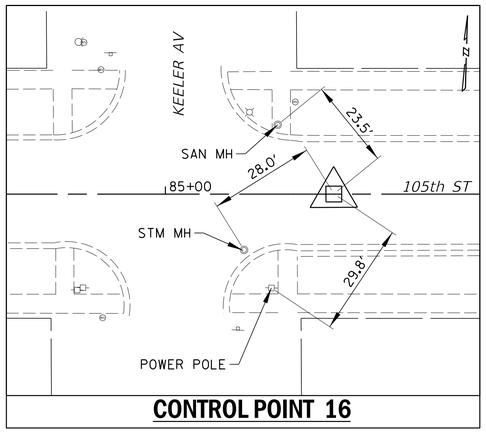
BENCHMARKS

OSBM 23-10 - LARGE NAIL IN UTILITY POLE AT THE SOUTHWEST CORNER OF 105TH STREET & TRIPP AVENUE.
ELEV = 618.77 (NAVD88)

OSBM 23-11 - NORTHWEST BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 105TH STREET & KEDVALE AVENUE
ELEV = 621.34 (NAVD88)

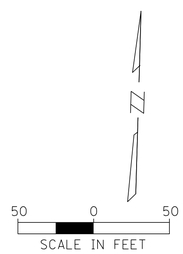


CONTROL POINT 15



CONTROL POINT 16

HORIZONTAL CONTROL POINTS					
CP #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
CP 15	1,834,622.350	1,149,651.210	PK NAIL	79+44.47	0.06' LT
CP 16	1,834,639.770	1,150,251.010	PK NAIL	85+44.52	0.06' LT



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OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

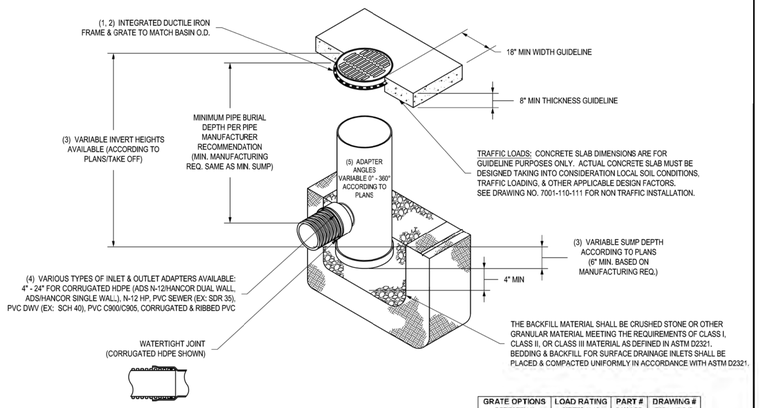
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DWN.	MAK
CHKD.	LMF
SCALE:	50'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
ALIGNMENT, TIES AND BENCHMARKS

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 12 OF 75
DRAWING NO. 12

NYLOPLAST 24" DRAIN BASIN: 2824AG _ _X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2499CGP	7001-110-216
STANDARD	MEETS H-20	2499CGS	7001-110-217
SOLID COVER	MEETS H-20	2499CGC	7001-110-218
DOME	N/A	2499CGD	7001-110-219
DROP IN GRATE	LIGHT DUTY	2401DI	7001-110-075

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

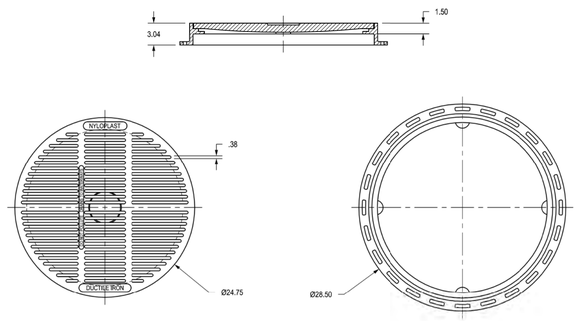
ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-192 REV E

2499CGP

APPROX. DRAIN AREA = 164.10 SQ IN
APPROX. WEIGHT WITH FRAME = 99.50 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-10 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36.
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-023

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DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	03-08-06		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	08-30-13		
DWG SIZE	A	SCALE 1:10	SHEET 1 OF 1

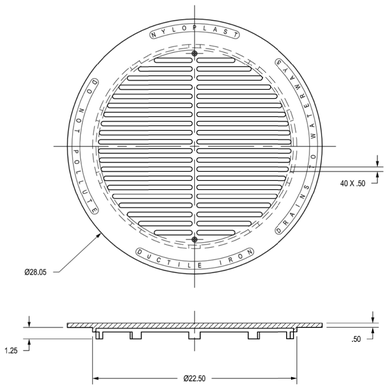
ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 24 IN PEDESTRIAN GRATE ASSEMBLY - TYPE B

DWG NO. 7001-110-216 REV D

2401DI

APPROX. DRAIN AREA = 164.94 SQ IN
APPROX. WEIGHT = 67.50 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE HAS LIGHT DJTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36.

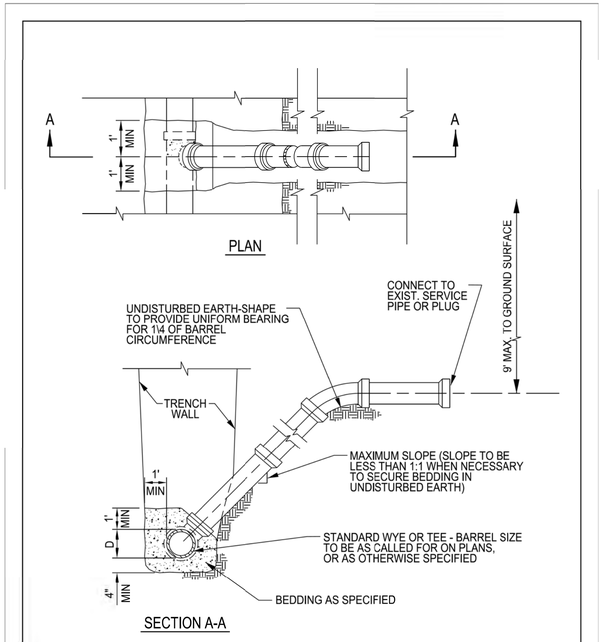
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DRAWN BY	CJA	MATERIAL	
DATE	7-5-01		
REVISED BY	JJC	PROJECT NO./NAME	
DATE	2-22-11		
DWG SIZE	A	SCALE 1:8	SHEET 1 OF 1

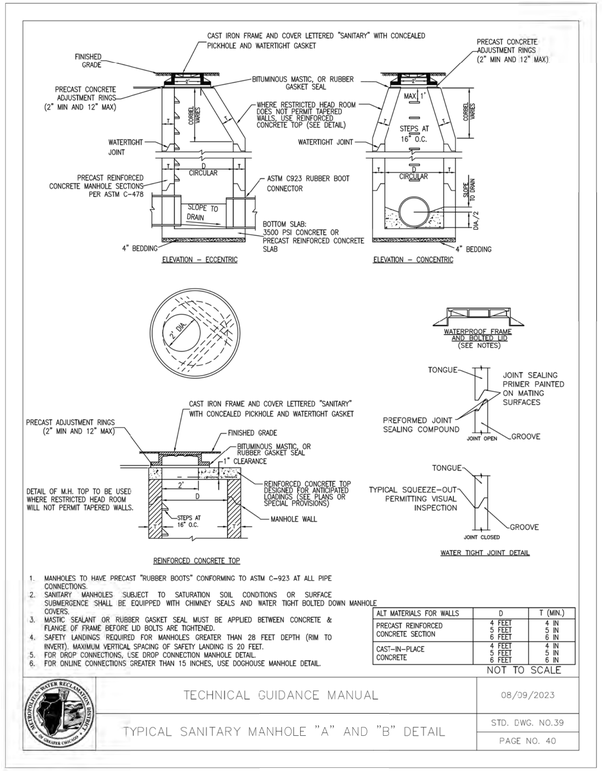
ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 24 IN DROP IN

DWG NO. 7001-110-075 REV D



TECHNICAL GUIDANCE MANUAL — 7/1/15
TYPICAL RISER SANITARY SERVICE LATERAL — STD. DWG. NO.38 — PAGE NO. 39

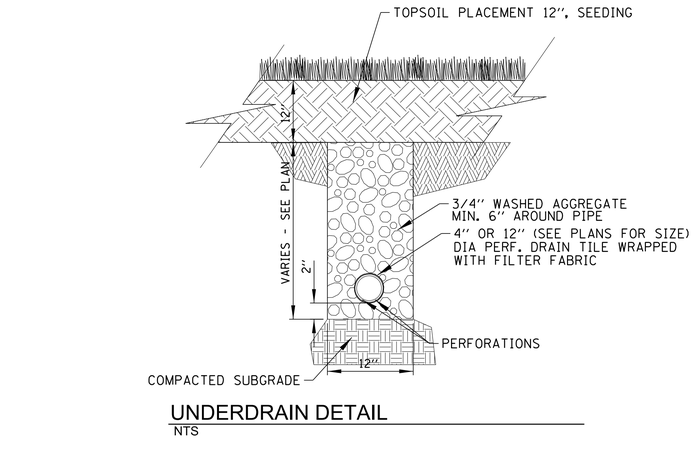


1. MANHOLES TO HAVE PRECAST "RUBBER BOOTS" CONFORMING TO ASTM C-923 AT ALL PIPE CONNECTIONS.
2. SANITARY MANHOLES SUBJECT TO SATURATION SOIL CONDITIONS OR SURFACE SUBMERGENCE SHALL BE EQUIPPED WITH CHIMNEY SEALS AND WATER TIGHT BOLTED DOWN MANHOLE COVERS.
3. MASTIC SEALANT OR RUBBER GASKET SEAL MUST BE APPLIED BETWEEN CONCRETE & FLANGE OF FRAME BEFORE LID BOLTS ARE TIGHTENED.
4. SAFETY LANDINGS REQUIRED FOR MANHOLES GREATER THAN 28 FEET DEPTH (RIM TO INVERT). MAXIMUM VERTICAL SPACING OF SAFETY LANDING IS 20 FEET.
5. FOR DROP CONNECTIONS, USE DROP CONNECTION MANHOLE DETAIL.
6. FOR ONLINE CONNECTIONS GREATER THAN 15 INCHES, USE DOGHOUSE MANHOLE DETAIL.

ALT MATERIALS FOR WALLS	D	T (MIN.)
PRECAST REINFORCED CONCRETE SECTION	4 FEET	4 IN
	5 FEET	5 IN
	6 FEET	6 IN
CAST-IN-PLACE CONCRETE	4 FEET	4 IN
	5 FEET	5 IN
	6 FEET	6 IN

NOT TO SCALE

TECHNICAL GUIDANCE MANUAL — 08/09/2023
TYPICAL SANITARY MANHOLE "A" AND "B" DETAIL — STD. DWG. NO.39 — PAGE NO. 40



UNDERDRAIN DETAIL
NTS

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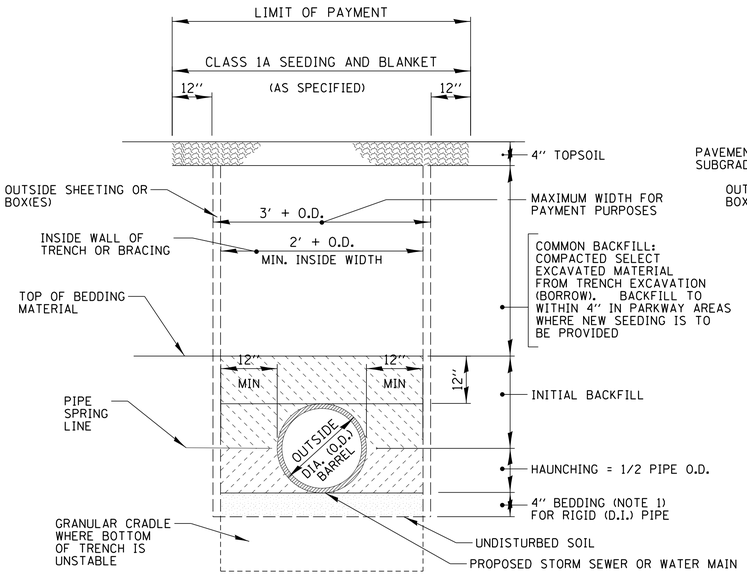
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VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME	N:\OakLawn\230445\Civil\DET_230445_01.sht		

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

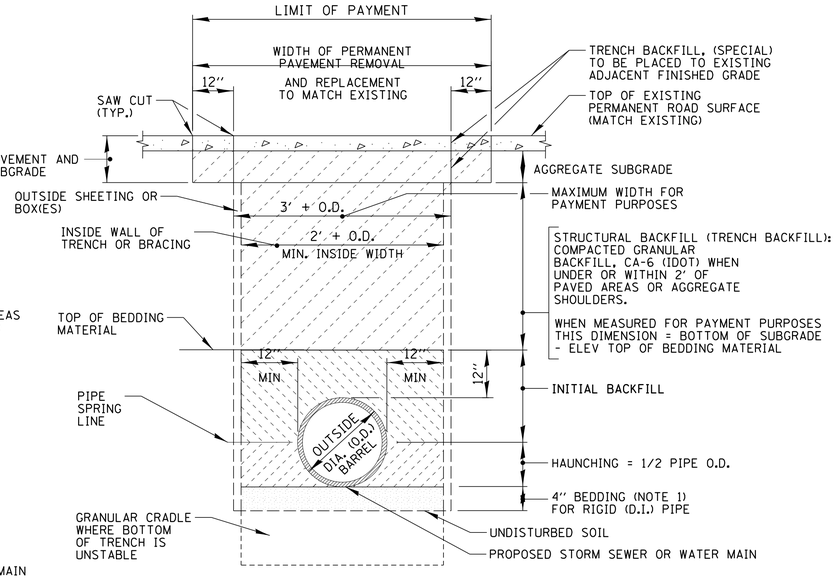
TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
CONSTRUCTION DETAILS

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 13 OF 75
DRAWING NO. 13



WITHIN PARKWAY AREAS (COMMON BACKFILL)

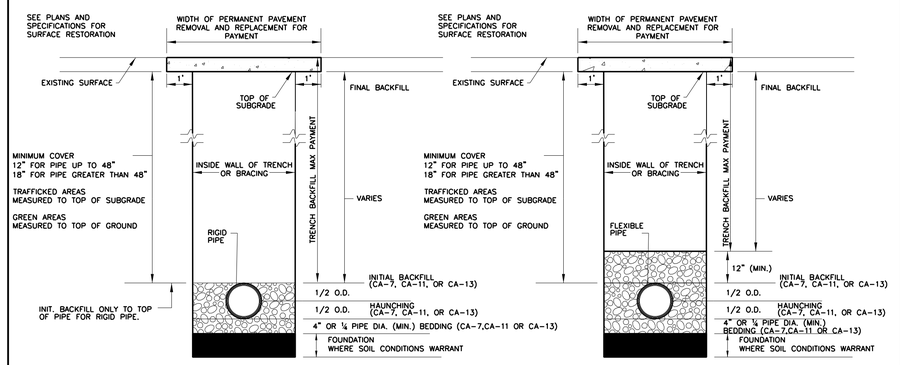
N.T.S.



WITHIN PAVED, DRIVEWAY OR WALKWAY AREAS (STRUCTURAL BACKFILL)

N.T.S.

TYPICAL TRENCH BACKFILL DETAILS & TRENCHING NOTES FOR PARKWAY AREAS AND PAVED AREAS



RIGID PIPE INSTALLATION DETAIL

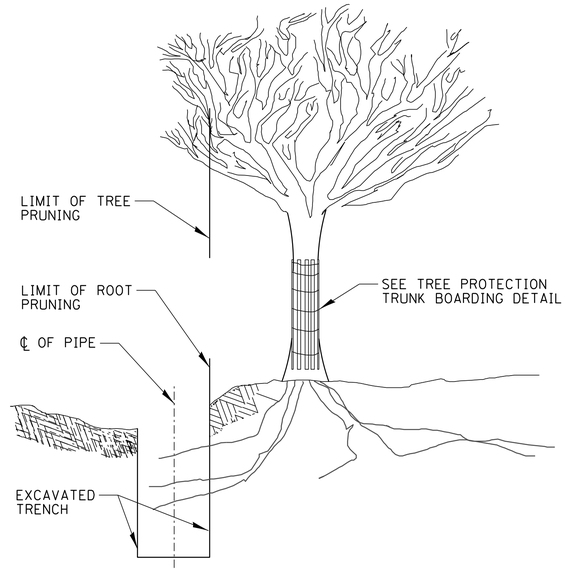
FLEXIBLE PIPE INSTALLATION DETAIL

SANITARY SEWER INSTALLATION

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

	TECHNICAL GUIDANCE MANUAL	7/1/15
	RIGID AND FLEXIBLE PIPE INSTALLATION DETAIL	STD. DWG. NO. 34
		PAGE NO. 35

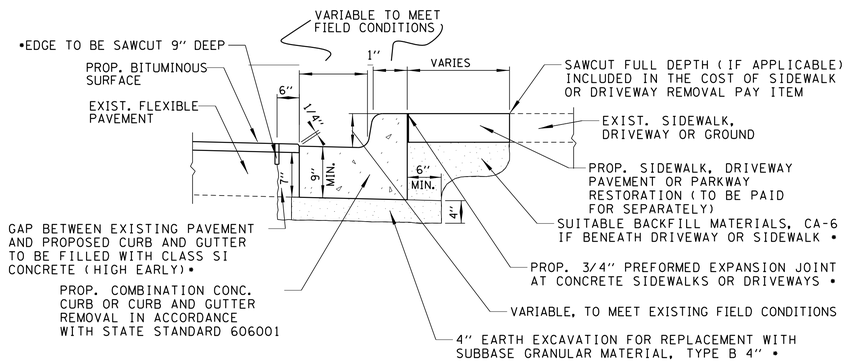


NOTES:

1. ALL TREES ARE TO REMAIN IN PLACE UNLESS OTHERWISE SHOWN TO BE REMOVED ON DRAWINGS.
2. TREES TO REMAIN IN PLACE AND WHICH ARE LOCATED ADJACENT TO PROJECT CONSTRUCTION SHALL BE PROTECTED.
3. THE CONTRACTOR SHALL OBTAIN THE OWNER'S APPROVAL PRIOR TO ANY TREE REMOVAL AND/OR TREE AND ROOT PRUNING.
4. TREE AND ROOT PRUNING SHALL BE DONE IN ACCORDANCE WITH IDOT SPECIFICATION SECTION 201.

TREE PROTECTION AND PRUNING DETAIL

N.T.S.



• INCLUDED IN THE COST FOR COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (SPECIAL)

COMBINATION CONCRETE CURB & GUTTER REMOVAL & REPLACEMENT (SPECIAL)

NOTE:
LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

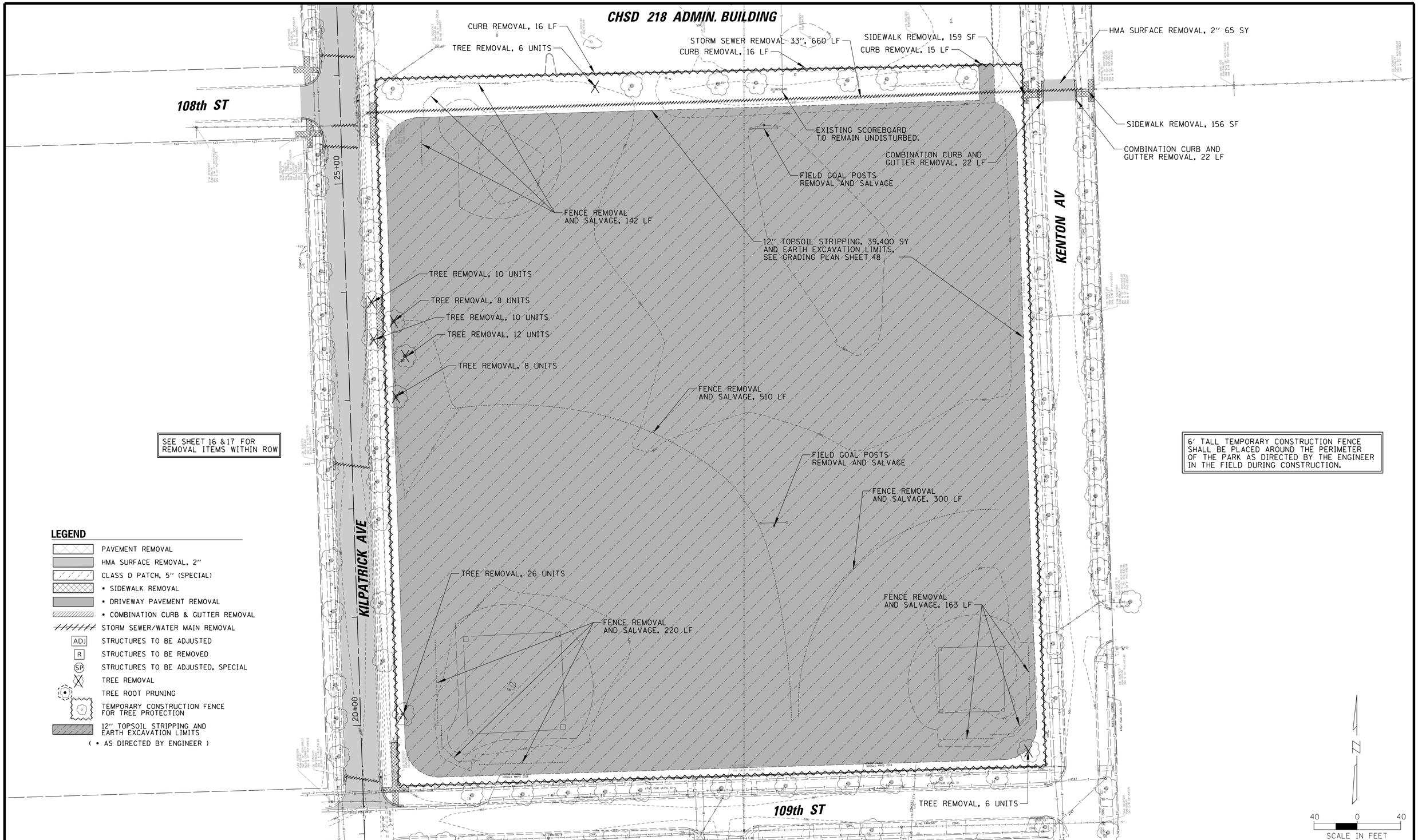
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME N:\OakLawn\230445\Civil\DET_230445_01.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
CONSTRUCTION DETAILS

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	14 OF 75
DRAWING NO.	14



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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

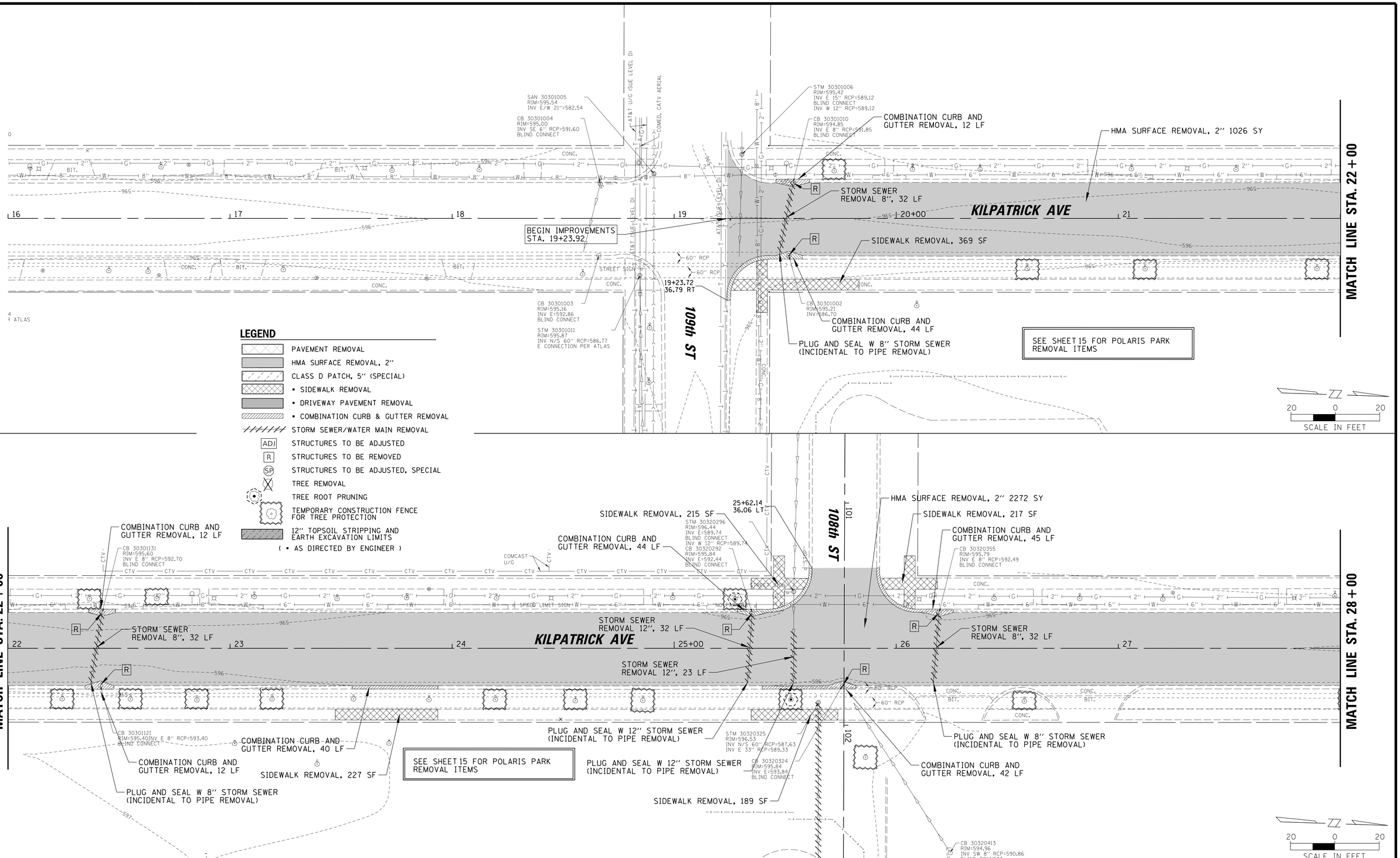
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DSGN.	JAL
DWN.	MAK
CHKD.	LMF
SCALE:	40'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
EXISTING CONDITION & REMOVAL PLAN
POLARIS PARK

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	15 OF 75
DRAWING NO.	15



LEGEND

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, 2"
- CLASS D PATCH, 5" (SPECIAL)
- • SIDEWALK REMOVAL
- • DRIVEWAY PAVEMENT REMOVAL
- • COMBINATION CURB & GUTTER REMOVAL
- STORM SEWER/WATER MAIN REMOVAL
- ADJ STRUCTURES TO BE ADJUSTED
- R STRUCTURES TO BE REMOVED
- SP STRUCTURES TO BE ADJUSTED, SPECIAL
- TREE REMOVAL
- TREE ROOT PRUNING
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- 12" TOPSOIL STRIPPING AND EARTH EXCAVATION LIMITS (• AS DIRECTED BY ENGINEER)

CHRISTOPHER B. BURKE ENGINEERING, LTD.
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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

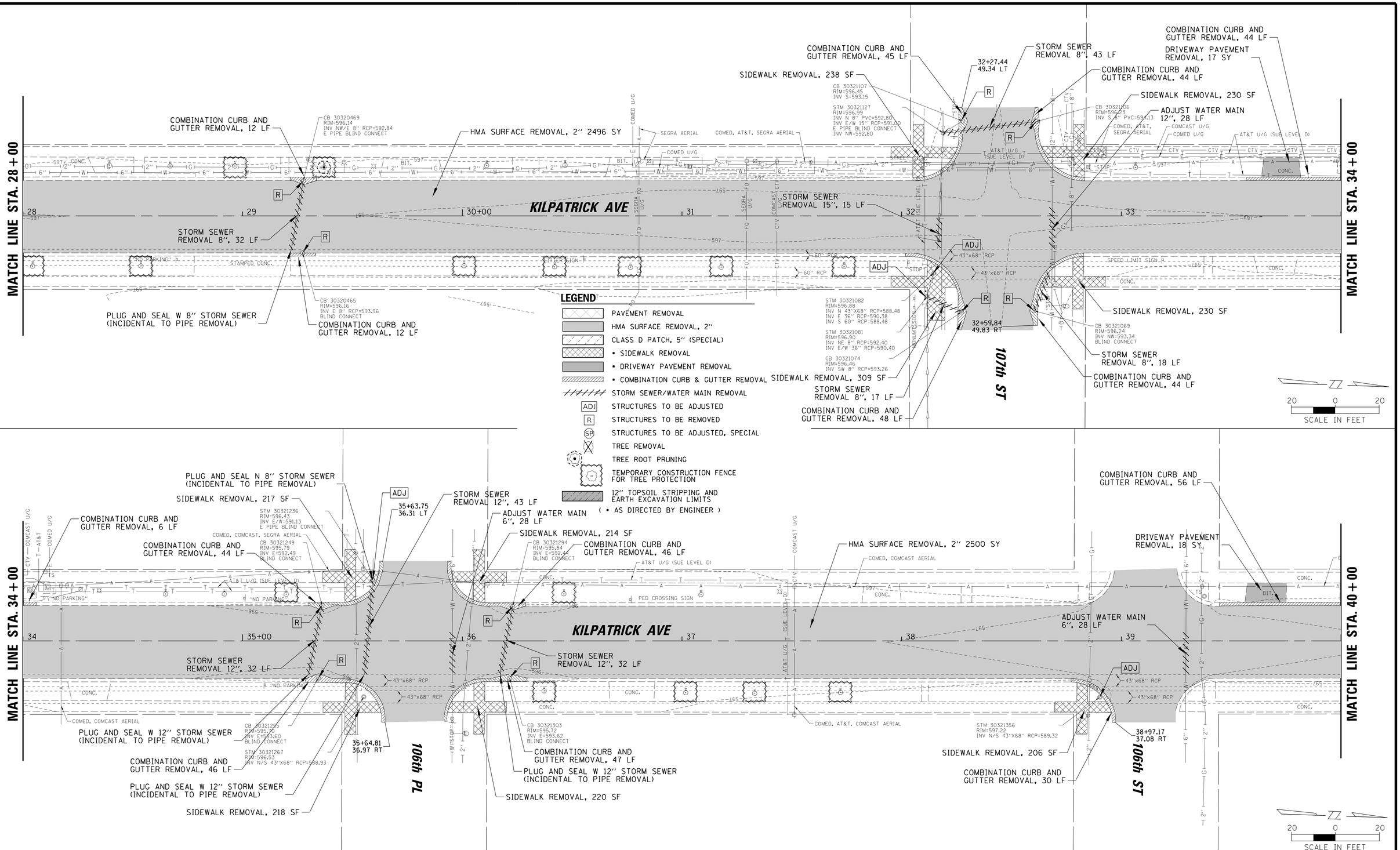
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
EXISTING CONDITIONS & REMOVAL PLAN
KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	16 OF 75
DRAWING NO.	16



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CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

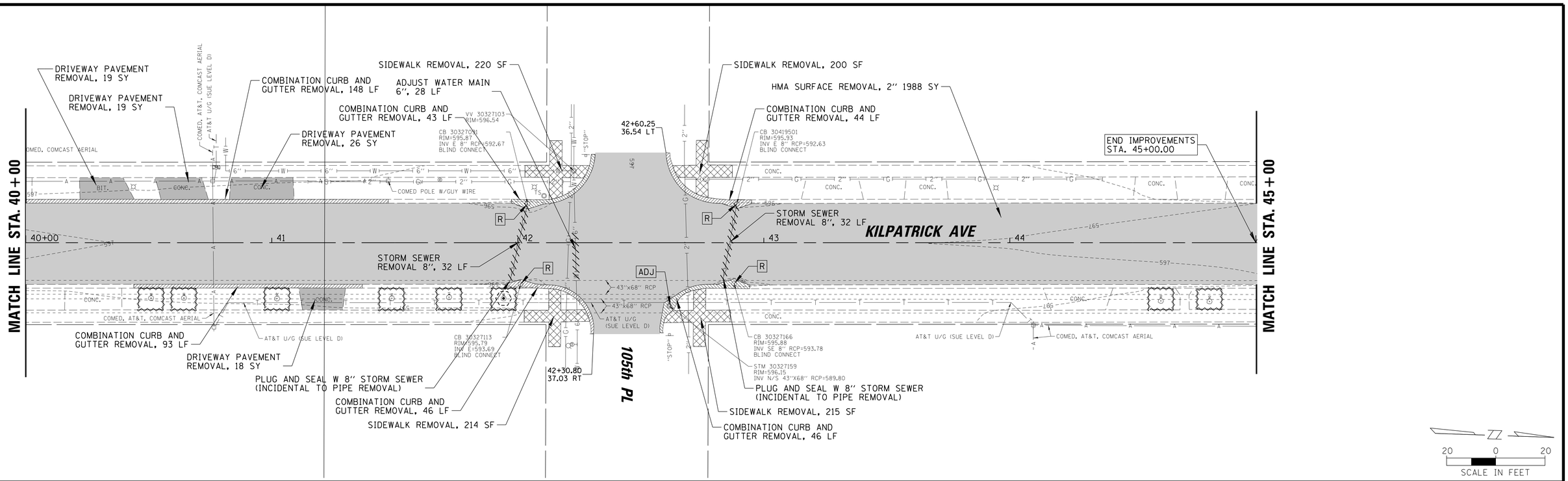
NO.	DATE	NATURE OF REVISION	CHKD.

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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
EXISTING CONDITIONS & REMOVAL PLAN KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	17 OF 75
DRAWING NO.	17



LEGEND

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, 2"
- CLASS D PATCH, 5" (SPECIAL)
- • SIDEWALK REMOVAL
- • DRIVEWAY PAVEMENT REMOVAL
- • COMBINATION CURB & GUTTER REMOVAL
- STORM SEWER/WATER MAIN REMOVAL
- ADJ STRUCTURES TO BE ADJUSTED
- R STRUCTURES TO BE REMOVED
- SP STRUCTURES TO BE ADJUSTED, SPECIAL
- TREE REMOVAL
- TREE ROOT PRUNING
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- 12" TOPSOIL STRIPPING AND EARTH EXCAVATION LIMITS

(• AS DIRECTED BY ENGINEER)

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(847) 823-0500

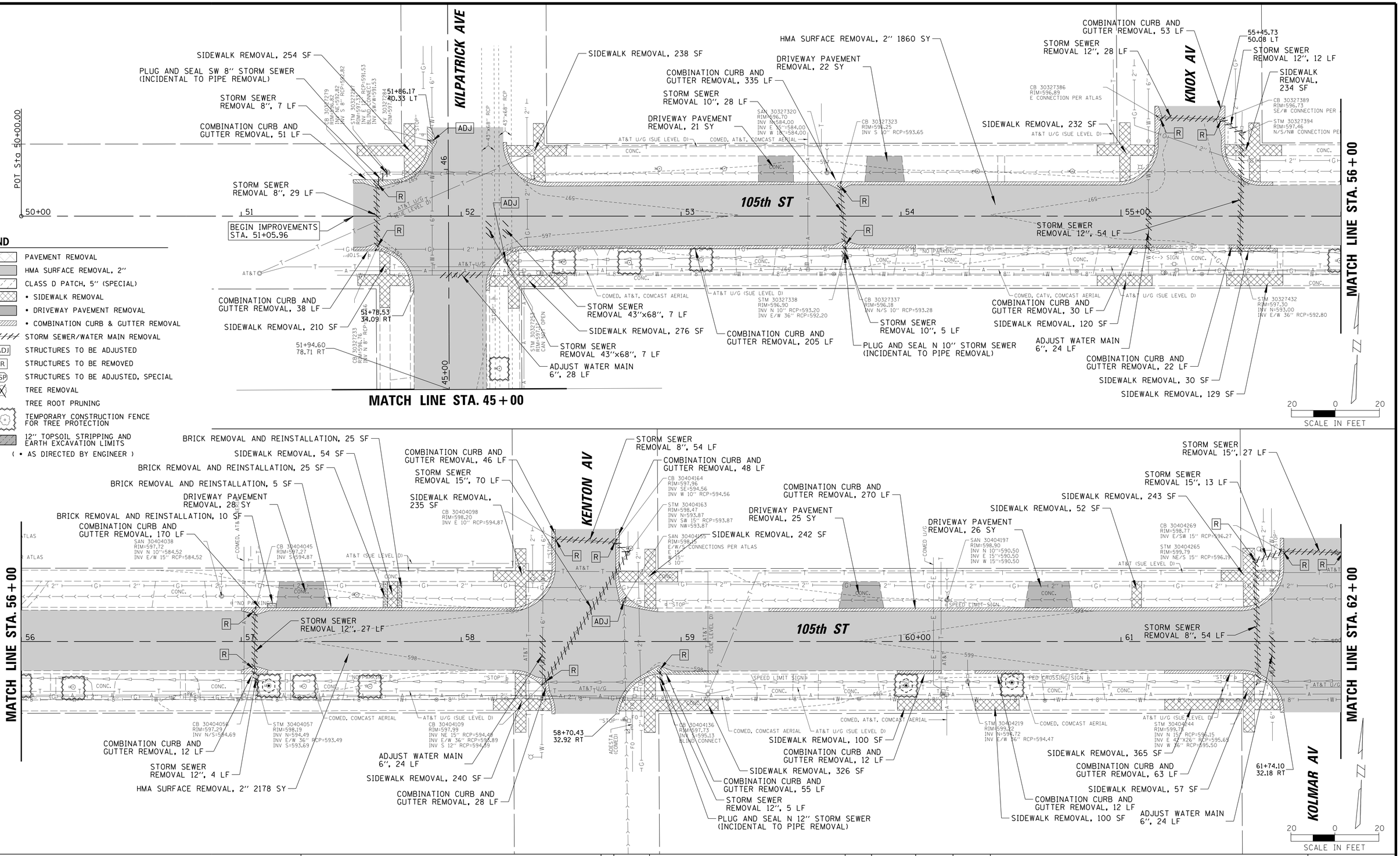
CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME	N:\OakLawn\230445\Civil\REM_230445_04.sht		

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
EXISTING CONDITIONS & REMOVAL PLAN
KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	18 OF 75
DRAWING NO.	18



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CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

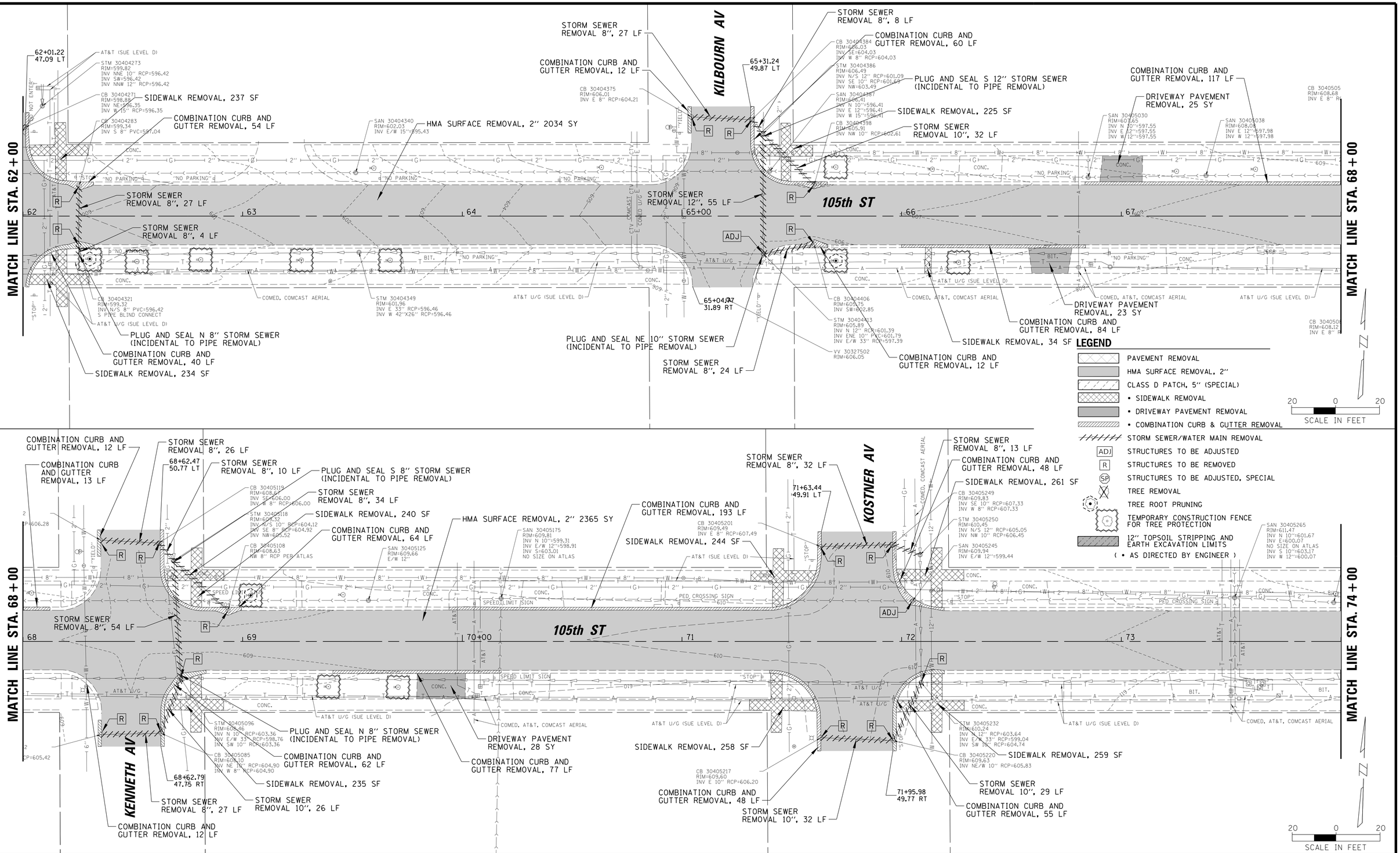
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
EXISTING CONDITIONS & REMOVAL PLAN 105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	19 OF 75
DRAWING NO.	19



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CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

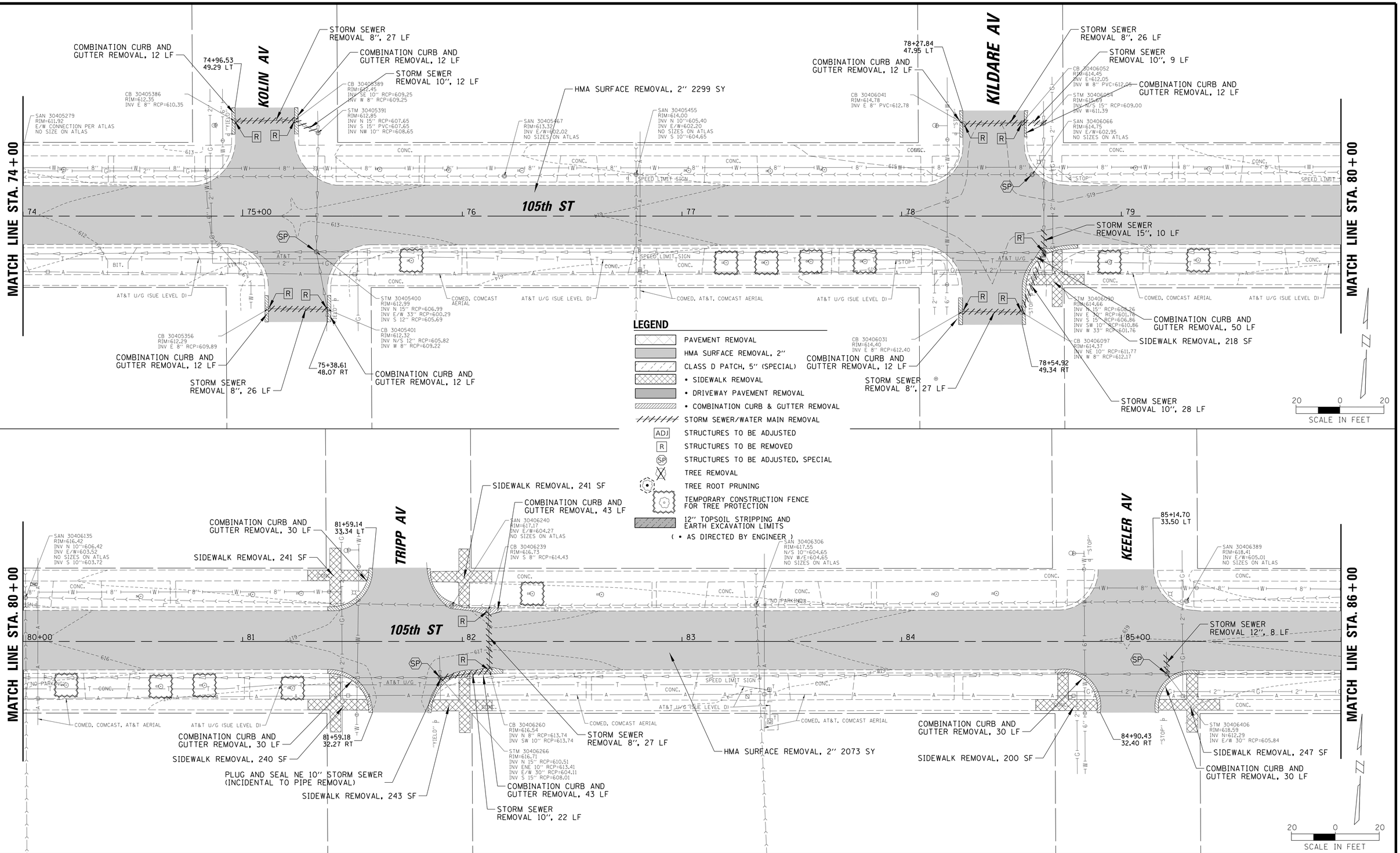
FILE NAME N:\OakLawn\230445\Civil\REM_230445_06.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
EXISTING CONDITIONS & REMOVAL PLAN 105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	20 OF 75
DRAWING NO.	20



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CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

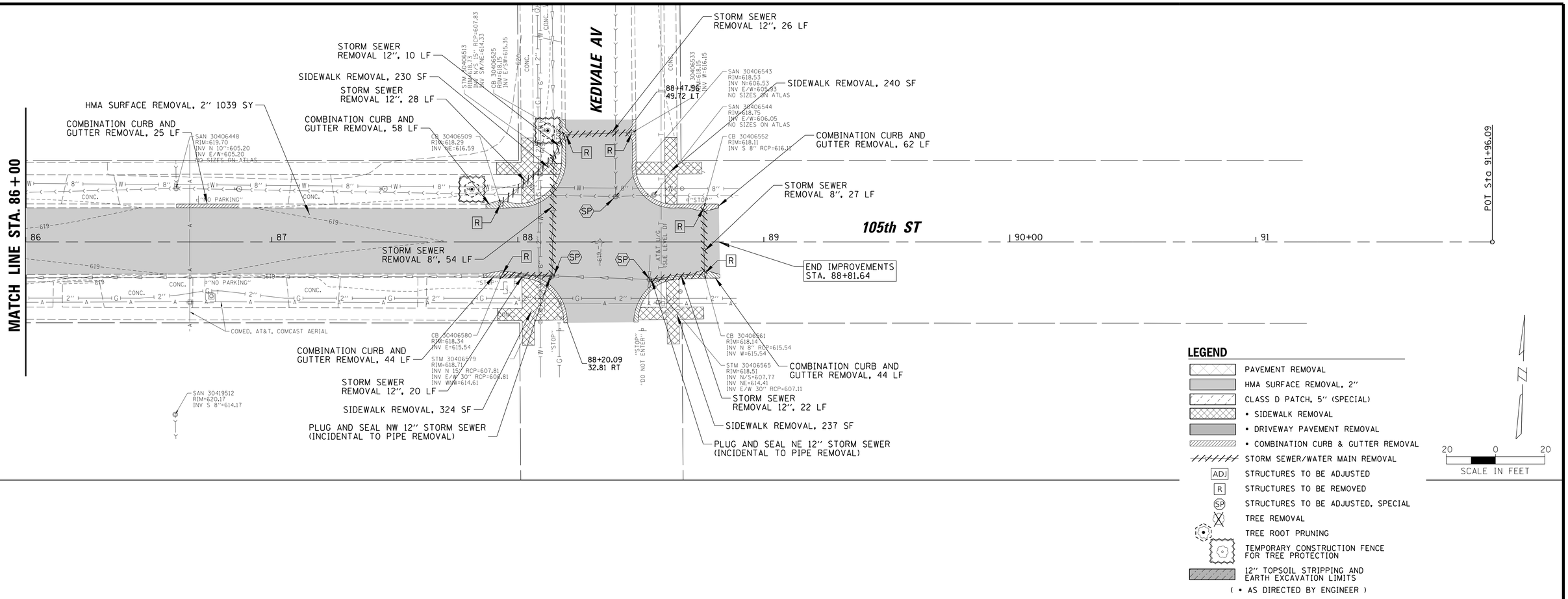
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
EXISTING CONDITIONS & REMOVAL PLAN 105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	21 OF 75
DRAWING NO.	21



LEGEND

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, 2"
- CLASS D PATCH, 5" (SPECIAL)
- • SIDEWALK REMOVAL
- • DRIVEWAY PAVEMENT REMOVAL
- • COMBINATION CURB & GUTTER REMOVAL
- STORM SEWER/WATER MAIN REMOVAL
- (ADJ) STRUCTURES TO BE ADJUSTED
- (R) STRUCTURES TO BE REMOVED
- (SP) STRUCTURES TO BE ADJUSTED, SPECIAL
- TREE REMOVAL
- TREE ROOT PRUNING
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- 12" TOPSOIL STRIPPING AND EARTH EXCAVATION LIMITS

(• AS DIRECTED BY ENGINEER)

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(847) 823-0500

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

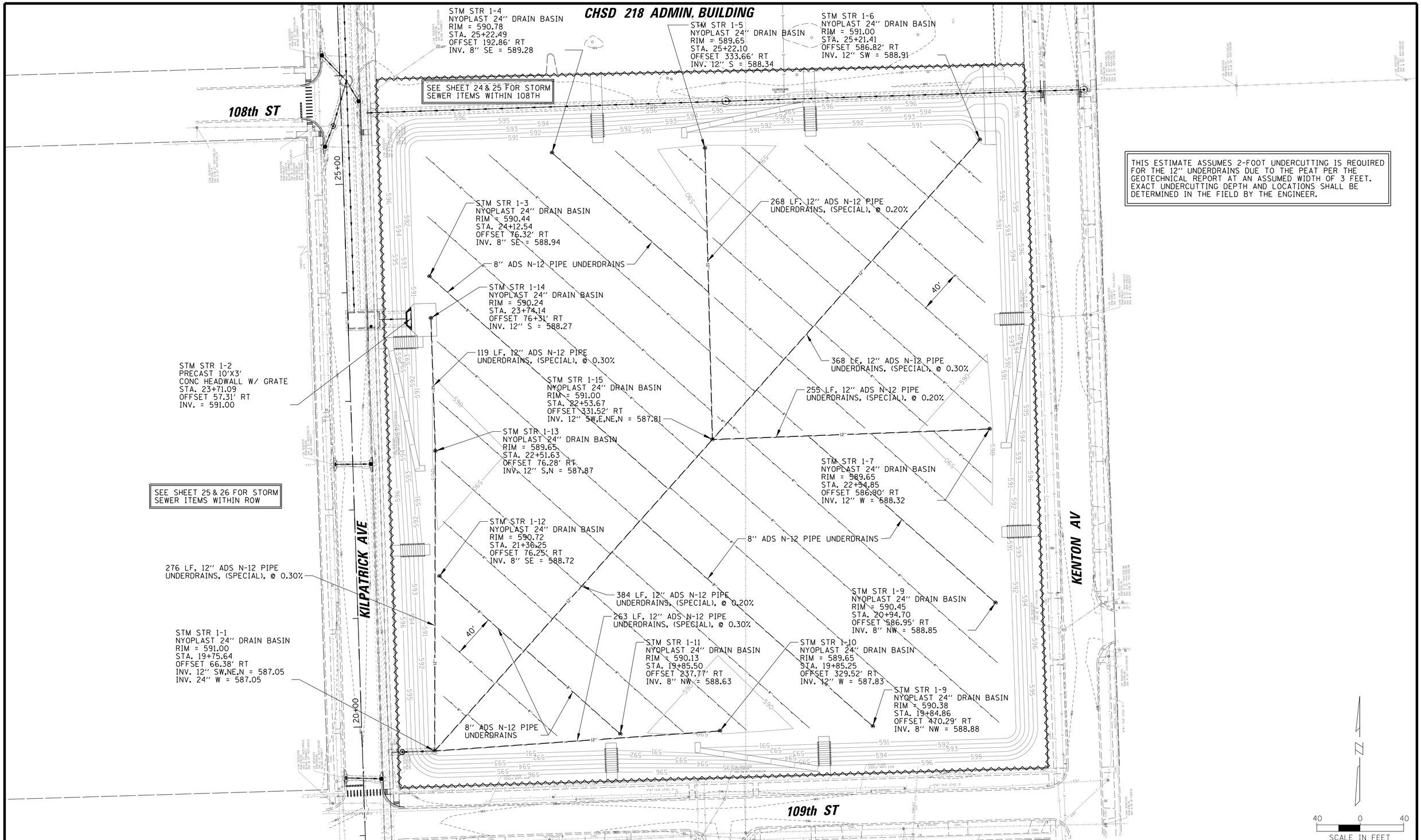
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME N:\OakLawn\230445\Civil\REM_230445_08.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
EXISTING CONDITIONS & REMOVAL PLAN 105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	22 OF 75
DRAWING NO.	22



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CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

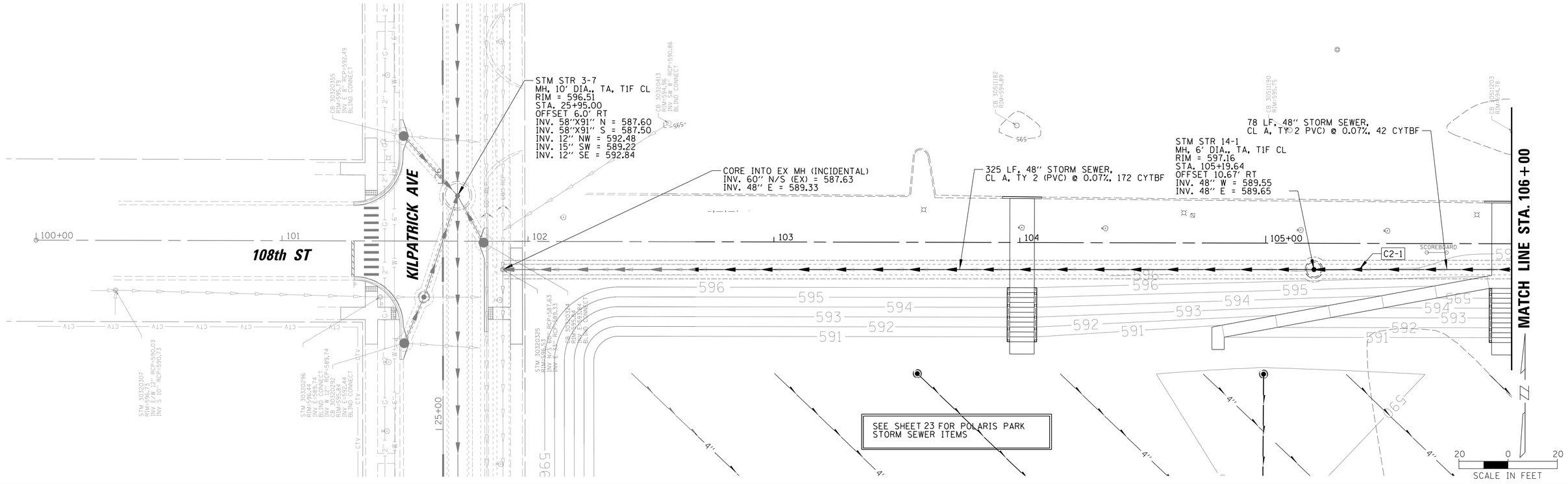
FILE NAME N:\OakLawn\230445\Civil\SPP_PIE_230445_01.Sht

DSGN.	JAL	DTO
DWN.	MAK	
CHKD.	LMF	
SCALE:	40'	
PLOT DATE:	7/28/2025	
CAD USER:	mkoonce	
MODEL:	Default	

TITLE:

CHSD 218 ADMINISTRATION BUILDING
STORMWATER IMPROVEMENTS PROJECT
STORM WATER PLAN
POLARIS PARK

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	23 OF 75
DRAWING NO.	23



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CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

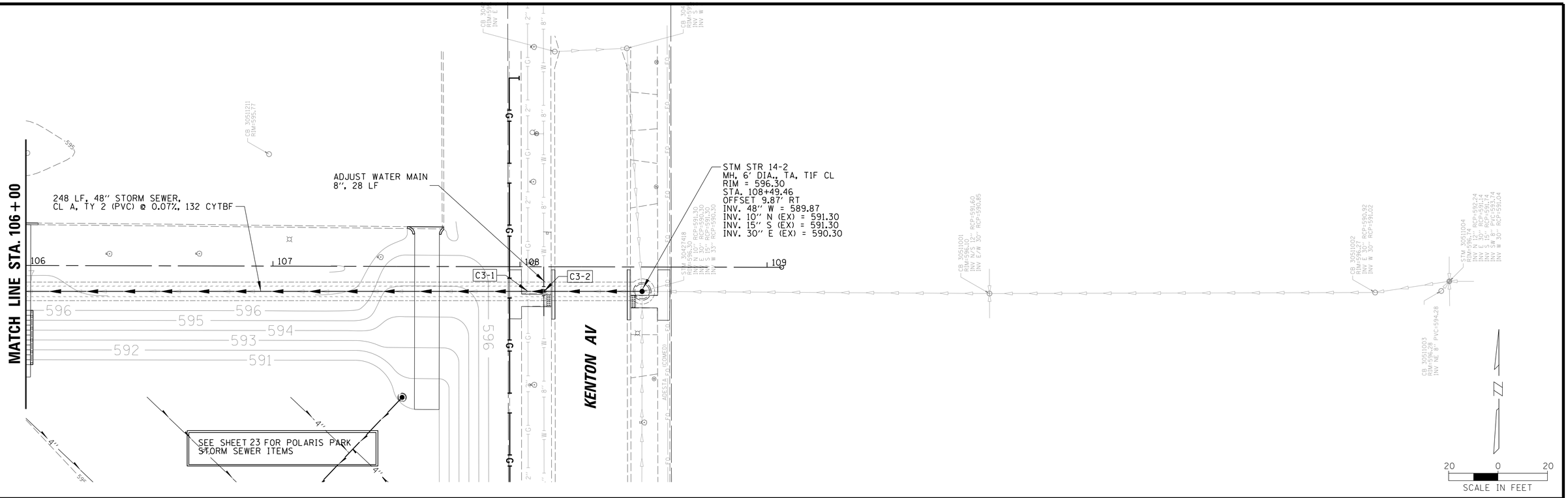
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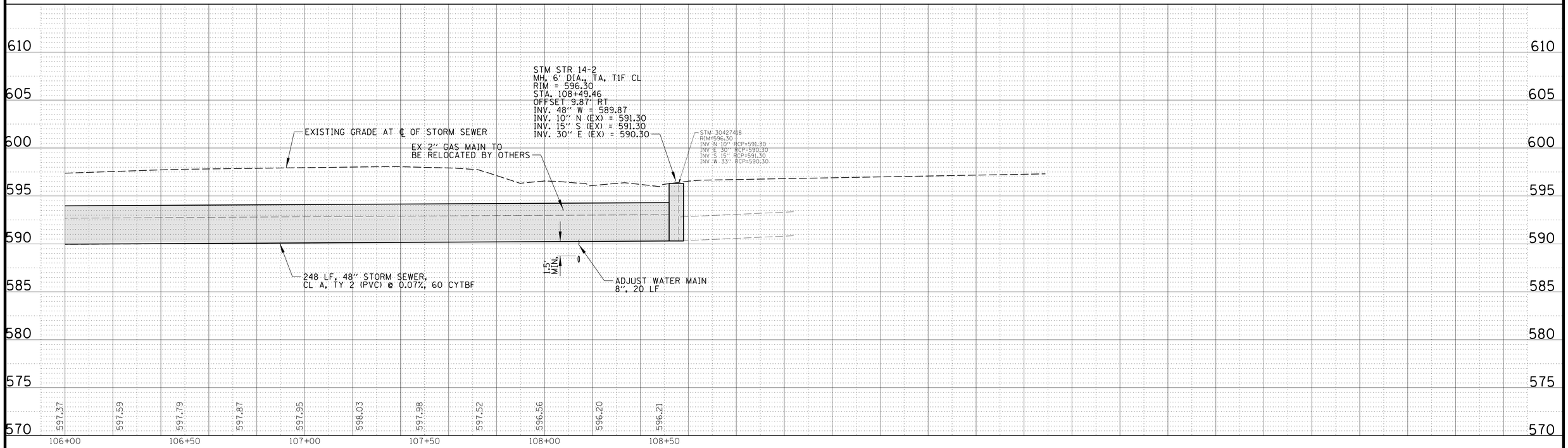
DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE 108TH STREET

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 24 OF 75
DRAWING NO. 24





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CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME: N:\OakLawn\230445\Civil\SPP_230445_02.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE 108TH STREET

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 25 OF 75
DRAWING NO. 25

STM STR 2-1
INLET, TA, EJ 7010,
TY T1 BACK, TY M2 GRATE
RIM = 594.80
STA. 19+53.55
OFFSET 15.92' LT
INV. 12" E = 591.80

30 LF, 12" STORM SEWER,
CL A, TY 2 (RCP) @ 1.00%, 8 CYTBF

CORE EX 60" RCP, 24" INV = 587.02±
(CONTRACTOR TO FIELD VERIFY PRIOR
TO PROJECT START)

8 LF, 24" STORM SEWER,
CL A, TY 2 (PVC) @ 0.08%, 12 CYTBF

27 LF, 24" STORM SEWER,
CL A, TY 2 (PVC) @ 0.08%, 37 CYTBF

SAN 30301005
RIM=595.54
INV E/W 21"=582.54

CB 30301004
RIM=595.00
INV SE 6" RCP=591.60
BLIND CONNECT

STM 30301006
RIM=595.42
INV S 15" RCP=589.12
BLIND CONNECT
INV W 12" RCP=589.12

CB 30301010
RIM=594.85
INV E 8" RCP=591.85
BLIND CONNECT

AT&T U/G (SUE-LEVEL D)
COMED, CATV AERIAL

16 17 18 19 20+00 21

KILPATRICK AVE

MATCH LINE STA. 22+00

109th ST

60" RCP

CB 30301003
RIM=595.16
INV E=592.86
BLIND CONNECT

STM 30301011
RIM=595.87
INV N/S 60" RCP=586.77
E CONNECTION PER ATLAS

STM STR 2-2
CB, TY C, TA, EJ 7010,
TY T1 BACK, TY M2 GRATE
RIM = 595.15
STA. 19+51.67
OFFSET 16.55' RT
INV. 12" W = 586.70

STM STR 2-3
MH 4' DIA., TA, T1F CL
RIM = 595.36
STA. 19+75.64
OFFSET 36.76' RT
INV. 24" W = 587.03
INV. 24" E = 587.03 W/ BACKFLOW PREVENTER

STM STR 1-1
NYOPLAST 24" DRAIN BASIN
RIM = 591.00
STA. 19+75.64
OFFSET 66.38' RT
INV. 12", SW,NE,N = 587.05
INV. 24" W = 587.05

12"

595 596 594 593 592 591

SEE SHEET 23 FOR POLARIS PARK
STORM SEWER ITEMS

20 0 20
SCALE IN FEET

610 605 600 595 590 585 580 575 570

EXISTING GRADE AT ℄ OF ROAD

CB 30301003
RIM=595.16
INV E=592.86
BLIND CONNECT

STM STR 2-2
CB, TY C, TA, EJ 7010,
TY T1 BACK, TY M2 GRATE
RIM = 595.15
STA. 19+51.67
OFFSET 16.55' RT
INV. 12" W = 591.50
INV. 60" N/S (EX) = 586.70

STM STR 2-3
MH 4' DIA., TA, T1F CL
RIM = 595.36
STA. 19+75.64
OFFSET 36.76' RT
INV. 24" W = 587.03
INV. 24" E = 587.03 W/ BACKFLOW PREVENTER

EX DUAL 60" RCP

596.35 596.38 596.39 596.32 596.25 596.18 596.10 596.03 595.96 595.89 595.81 595.75 595.91 596.06 596.00 595.95 596.08 596.21 596.28 596.34 596.39 596.43 596.47 596.50 596.42

16+00 16+50 17+00 17+50 18+00 18+50 19+00 19+50 20+00 20+50 21+00 21+50 22+00

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(847) 823-0500

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME N:\OakLawn\230445\Civil\SPP_230445_03.sht

DSGN.	JAL	DTO
DWN.	MAK	
CHKD.	LMF	
SCALE:	20'	
PLOT DATE:	7/28/2025	
CAD USER:	mkoonce	
MODEL:	Default	

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	26 OF 75
DRAWING NO.	26

THIS ESTIMATE ASSUMES 1.5-FOOT UNDERCUTTING IS REQUIRED FOR THE STORM SEWER MAINLINE DOWN KILPATRICK AVENUE PER THE GEOTECHNICAL REPORT. EXACT UNDERCUTTING DEPTH AND LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

MATCH LINE STA. 22 + 00

MATCH LINE STA. 28 + 00

MATCH LINE STA. 102 + 70

KILPATRICK AVE

108TH ST

STM STR 3-2
CB, TY C., TA, EJ 7010,
TY T1 BACK, TY M2 GRATE
RIM = 595.30
STA. 22+41.66
OFFSET 16.66' RT
INV. 12" W = 592.20
INV. 12" E = 592.20

STM STR 3-1
INLET, TA, EJ 7010,
TY T1 BACK, TY M2 GRATE
RIM = 595.50
STA. 22+42.42
OFFSET 15.86' LT
INV. 12" E = 592.50

STM STR 3-3
JUNCTION CHAMBER NO. 1
28'X14', T1F CL
RIM = 596.36
STA. 23+74.32
OFFSET 14.54' RT
INV. 58"X91" N = 587.38
INV. 10'X3' E = 591.26
INV. 60" N/S (EX) = 587.38±
INV. 60" N/S (EX) = 587.38±

30 LF, 12" STORM SEWER,
CL A, TY 2 (RCP) @ 1.00%, 8 CYTBF

26 LF, 10'X3' STORM SEWER,
CL A, TY 2 (PCBC) @ 1.00%, 25 CYTBF

STM STR 1-2
PRECAST 10'X3'
CONC HEADWALL W/ GRATE
STA. 23+71.09
OFFSET 57.31' RT
INV. = 591.00

209 LF, 58"X91" STORM SEWER,
CL A, TY 2 (RCP) @ 0.06%, 423 CYTBF

16 LF, 12" STORM SEWER,
CL A, TY 2 (RCP) @ 1.00%, 5 CYTBF

STM STR 3-4
CB, 4' DIA., TA, EJ 7010,
TY T1 BACK, TY M2 GRATE
RIM = 596.40
STA. 25+35.10
OFFSET 15.75' LT
INV. 12" NE = 593.15

STM STR 3-5
MH, 4' DIA., TA, T1F CL
RIM = 596.30
STA. 25+53.82
OFFSET 7.71' LT
INV. 12" W (EX) = 589.70±
INV. 12" SW = 592.99
INV. 15" NE = 589.60

38 LF, 15" STORM SEWER,
CL A, TY 2 (RCP) @ 1.00%, 12 CYTBF

27 LF, 12" STORM SEWER,
CL A, TY 2 (RCP) @ 1.00%, 7 CYTBF

STM STR 3-6
CB, 4' DIA., TA, EJ 7010,
TY T1 BACK, TY M2 GRATE
RIM = 595.75
STA. 26+19.28
OFFSET 15.88' LT
INV. 12" SE = 592.50

200 LF, 58"X91" STORM SEWER,
CL A, TY 2 (RCP) @ 0.06%, 423 CYTBF

STM STR 3-7
MH, 10' DIA., TA, T1F CL
RIM = 596.51
STA. 25+95.00
OFFSET 6.0' RT
INV. 58"X91" N = 587.60
INV. 58"X91" S = 587.50
INV. 12" NW = 592.23
INV. 15" SW = 589.22
INV. 12" SE = 592.76

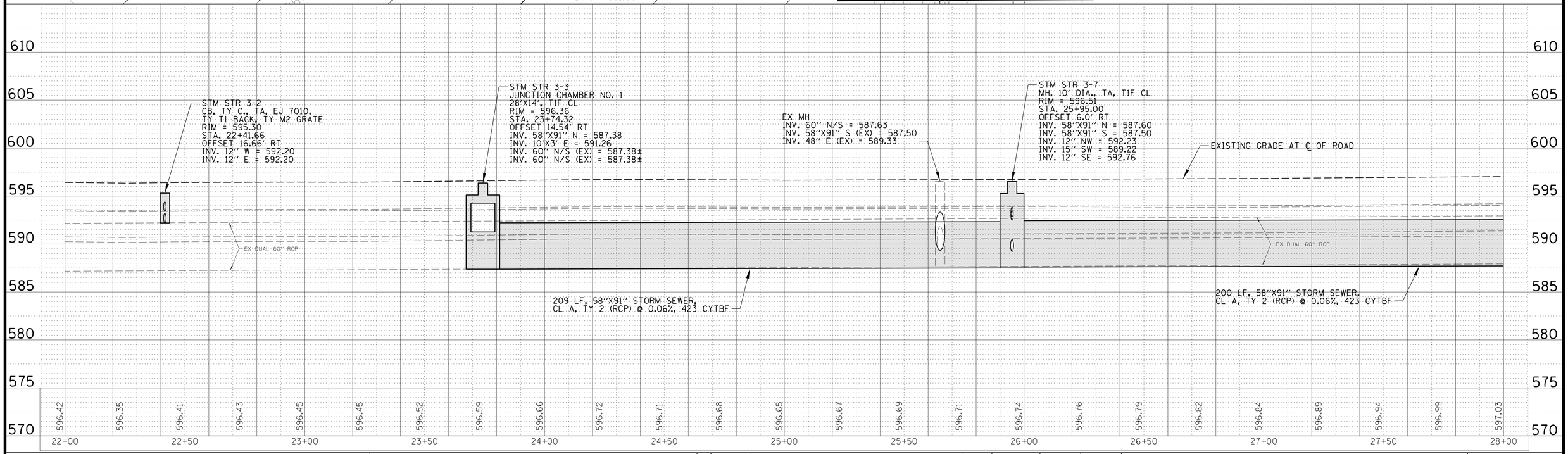
16 LF, 12" STORM SEWER,
CL A, TY 2 (RCP) @ 2.87%, 5 CYTBF

STM STR 3-8
CB, TY C., TA, EJ 7010,
TY T1 BACK, TY M2 GRATE
RIM = 595.80
STA. 25+75.01
OFFSET 16.58' RT
INV. 12" NW = 592.92

SEE SHEET 23 FOR POLARIS PARK STORM SEWER ITEMS

SEE SHEET 24 FOR 108TH STREET STORM SEWER ITEMS

SCALE IN FEET



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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

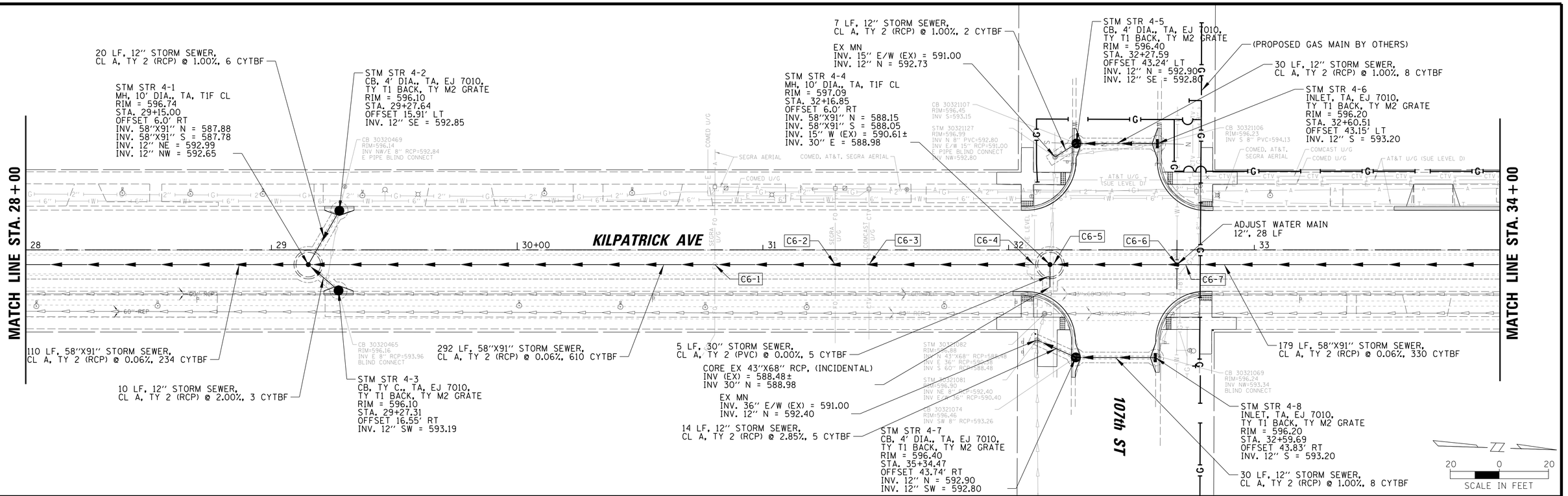
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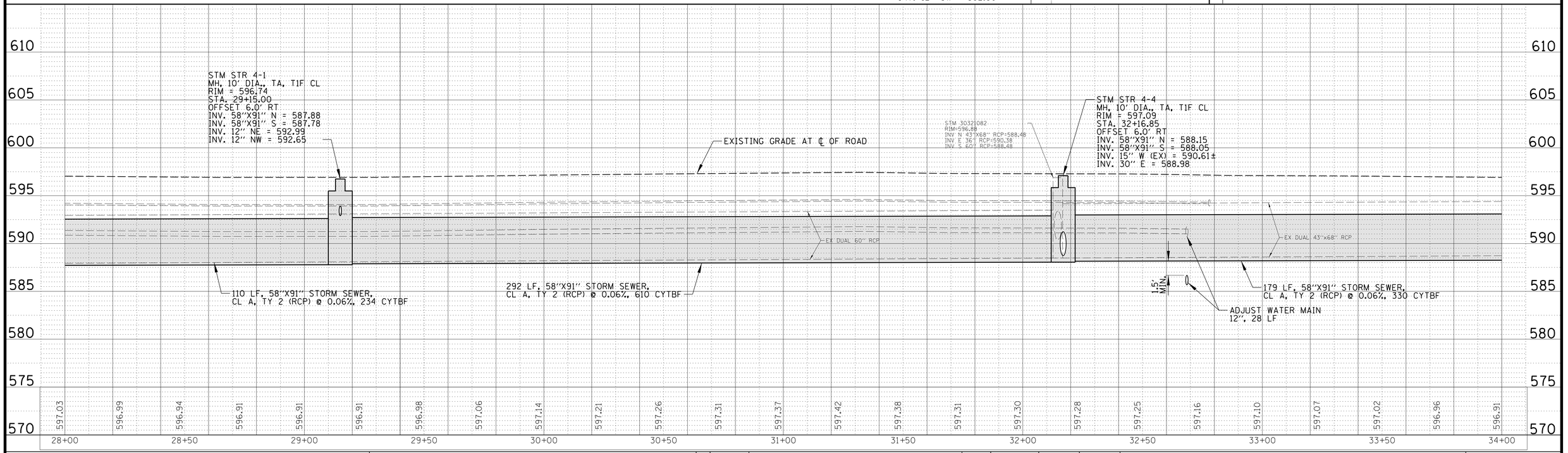
DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	27 OF 75
DRAWING NO.	27





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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

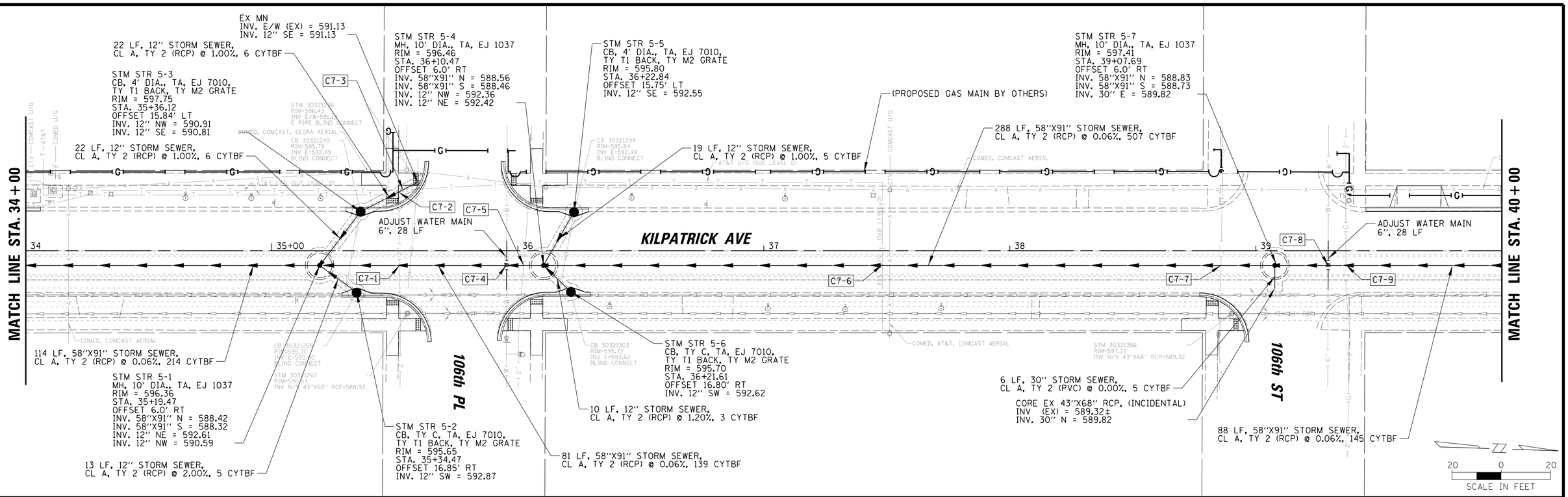
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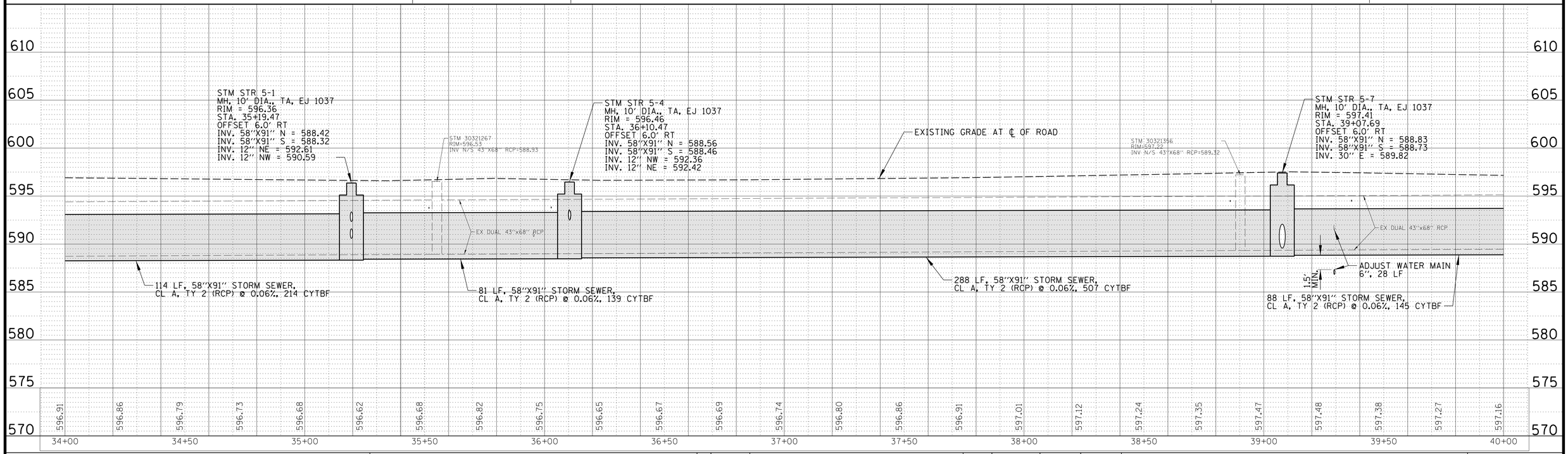
DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default
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TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	27 OF 75
DRAWING NO.	28





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OAK LAWN, ILLINOIS 60453

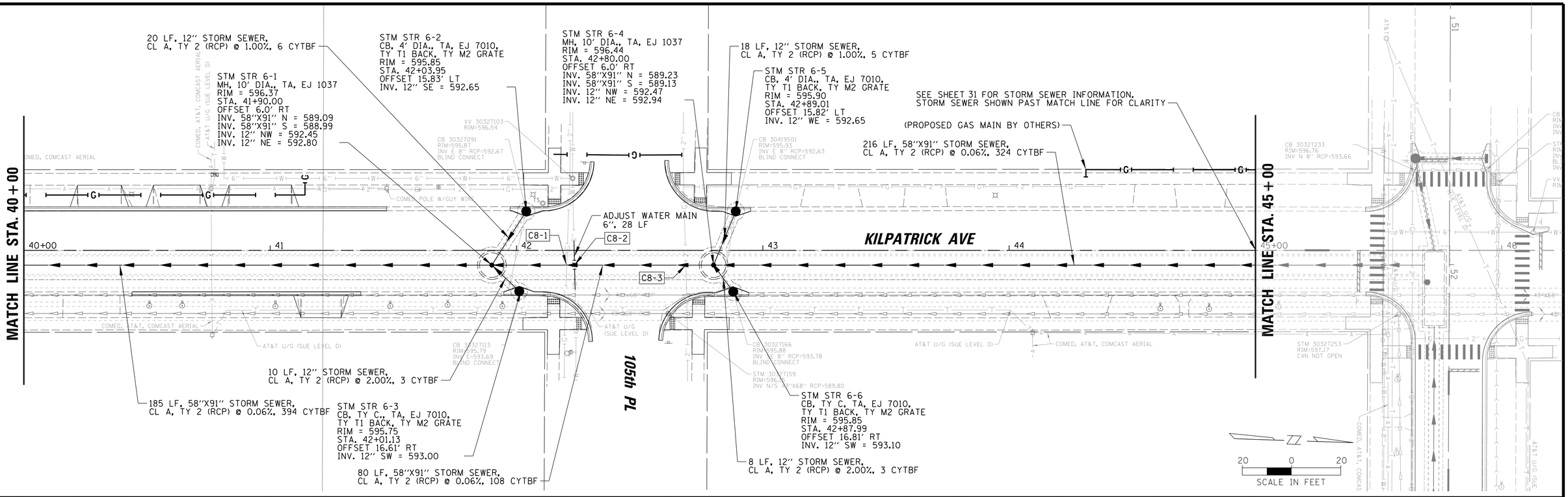
NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default
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TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	29 OF 75
DRAWING NO.	29



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CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

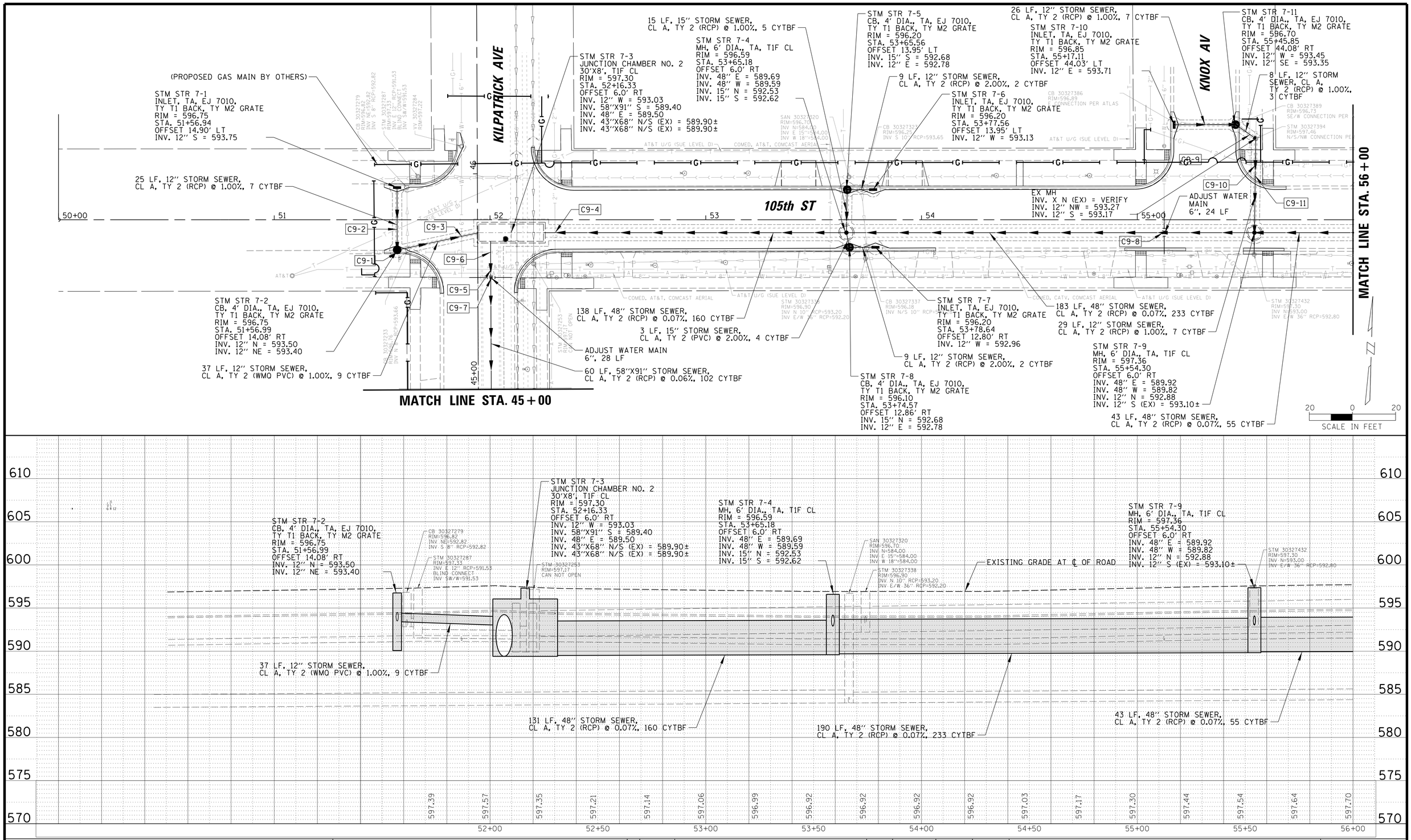
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	30 OF 75
DRAWING NO.	30



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OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

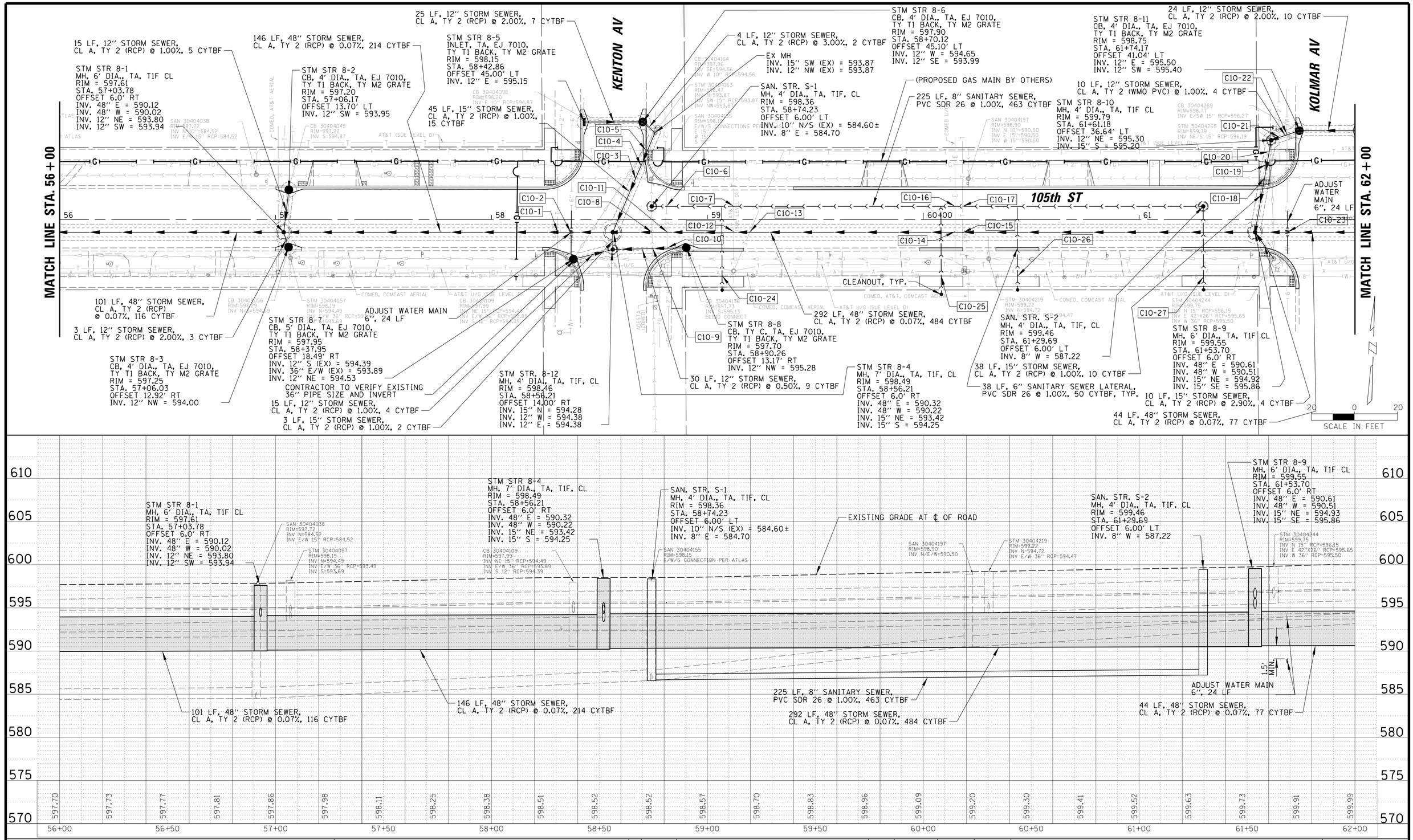
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE 105TH STREET

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 31 OF 75
DRAWING NO. 31



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VILLAGE OF OAK LAWN
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OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

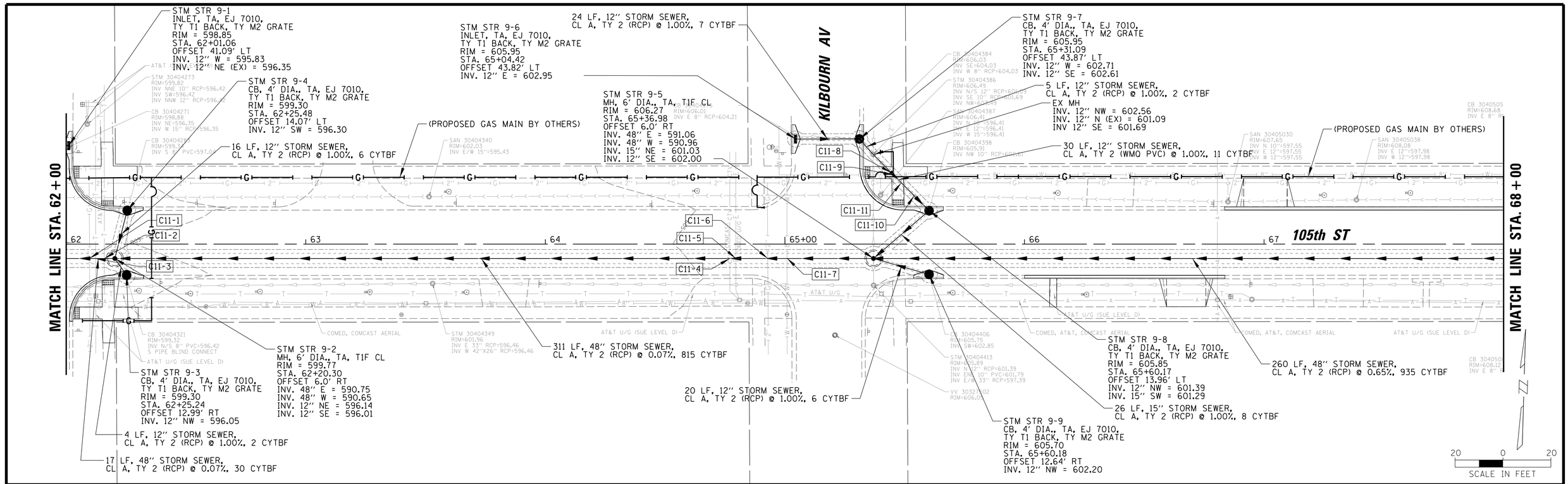
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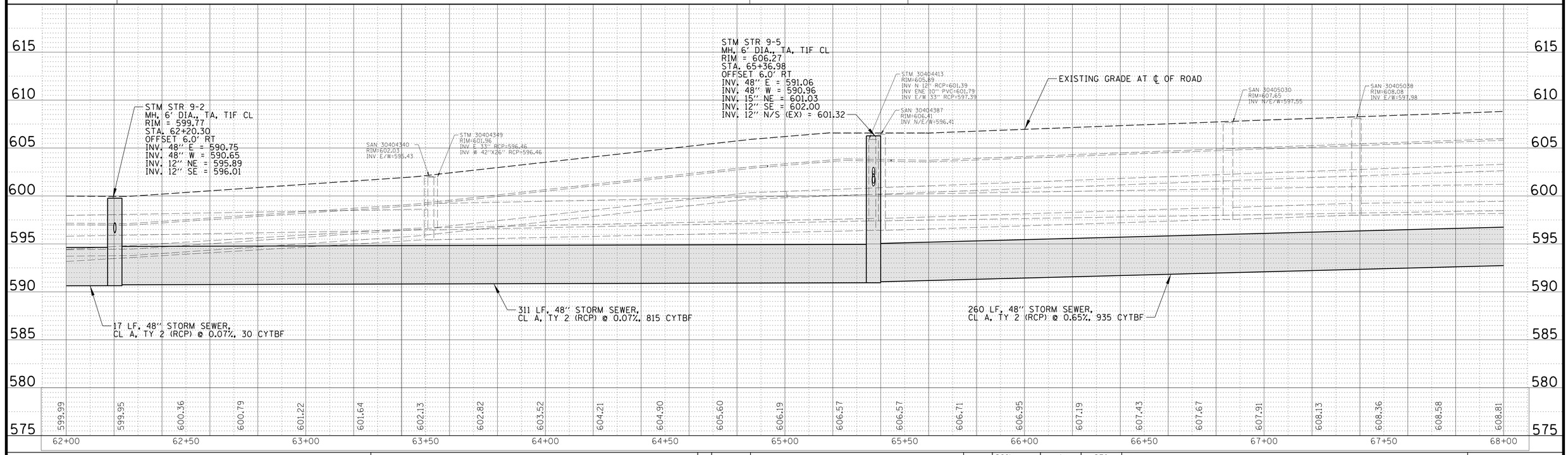
DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE 105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	32 OF 75
DRAWING NO.	32





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VILLAGE OF OAK LAWN
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OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

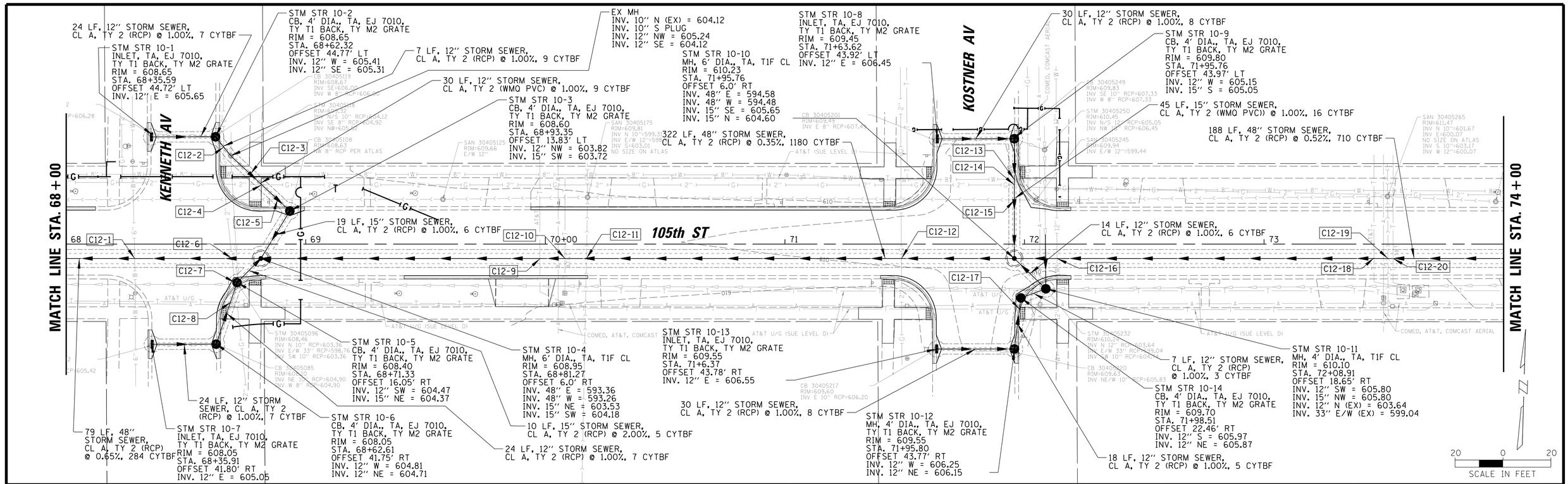
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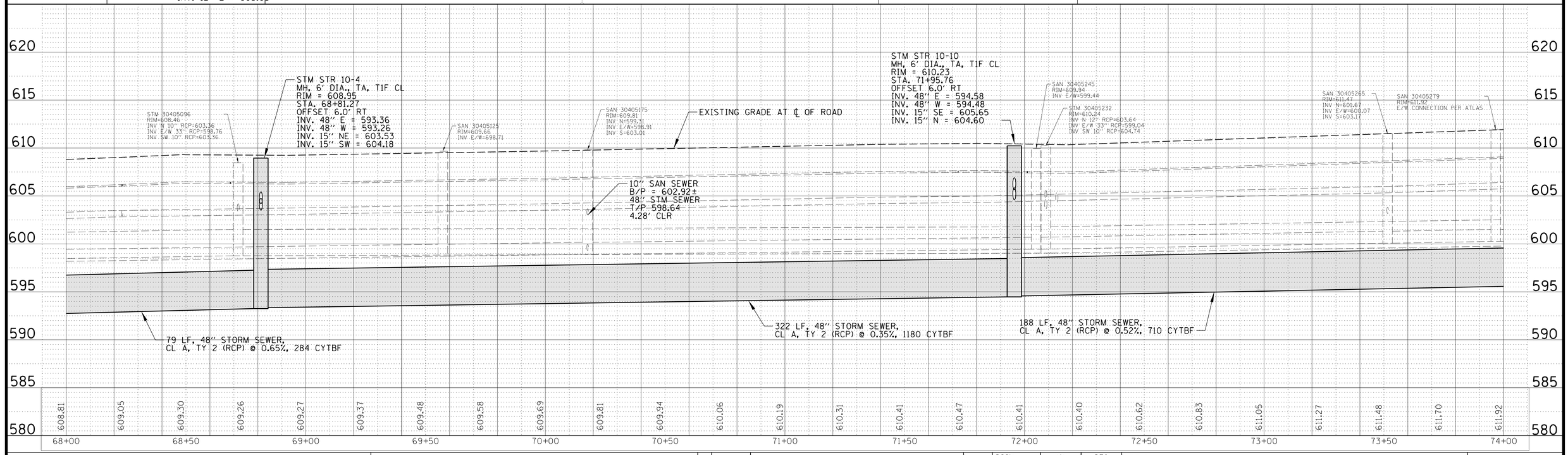
DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE 105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	33 OF 75
DRAWING NO.	33





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OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

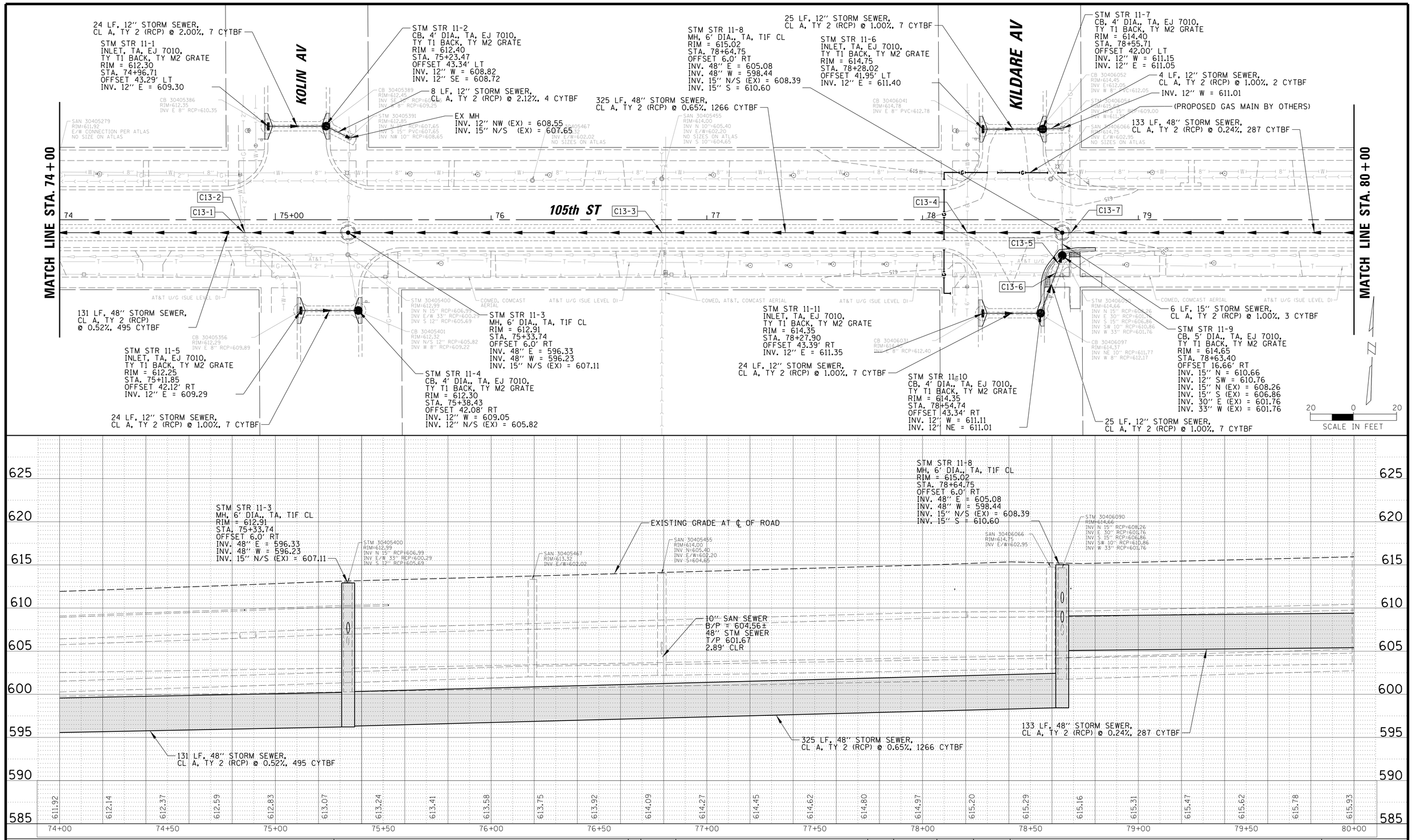
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DSGN.	JAL	DTO
DWN.	MAK	
CHKD.	LMF	
SCALE:	20'	
PLOT DATE:	7/28/2025	
CAD USER:	mkoonce	
MODEL:	Default	

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE 105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	34 OF 75
DRAWING NO.	34



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NO.	DATE	NATURE OF REVISION	CHKD.

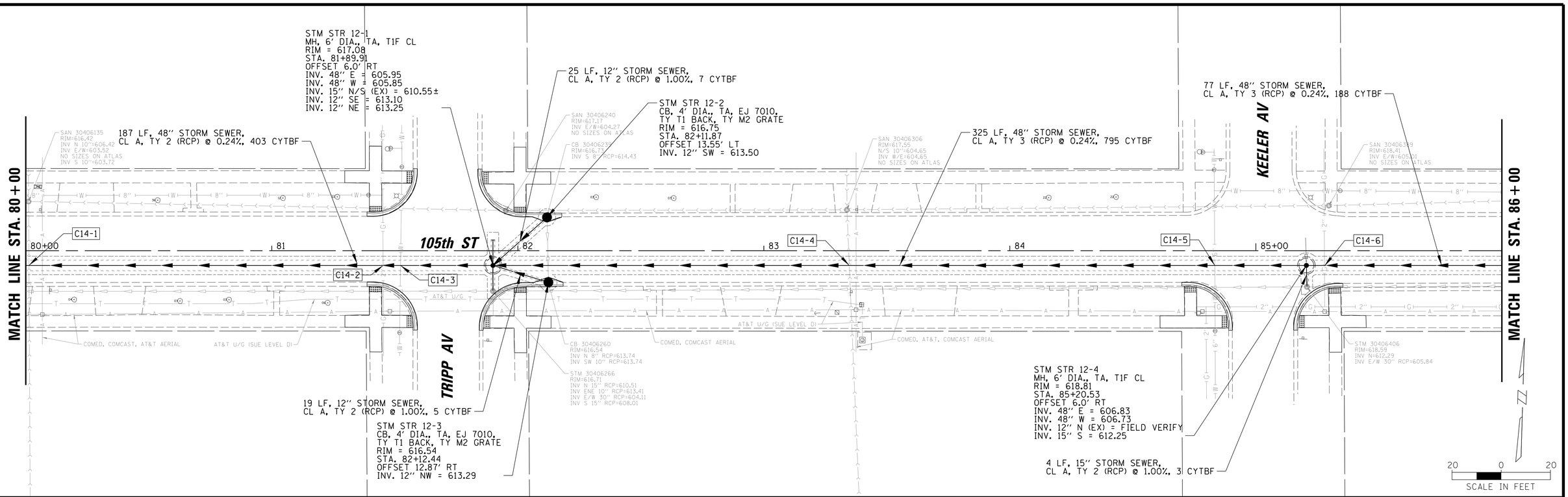
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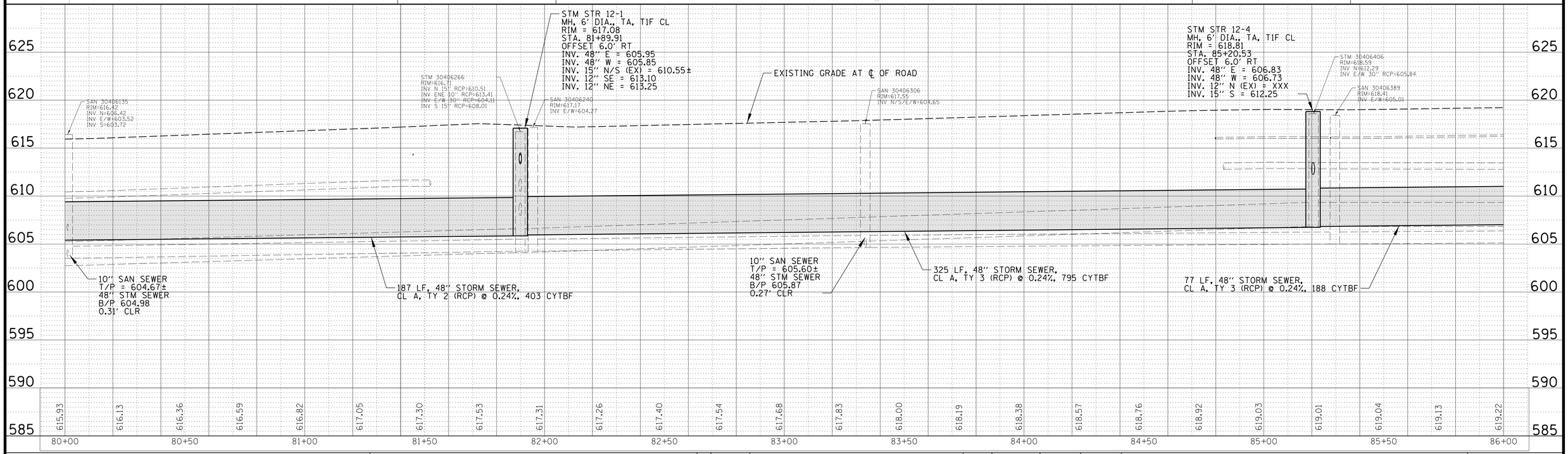
DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE 105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	35 OF 75
DRAWING NO.	35





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CLIENT:

VILLAGE OF OAK LAWN
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OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

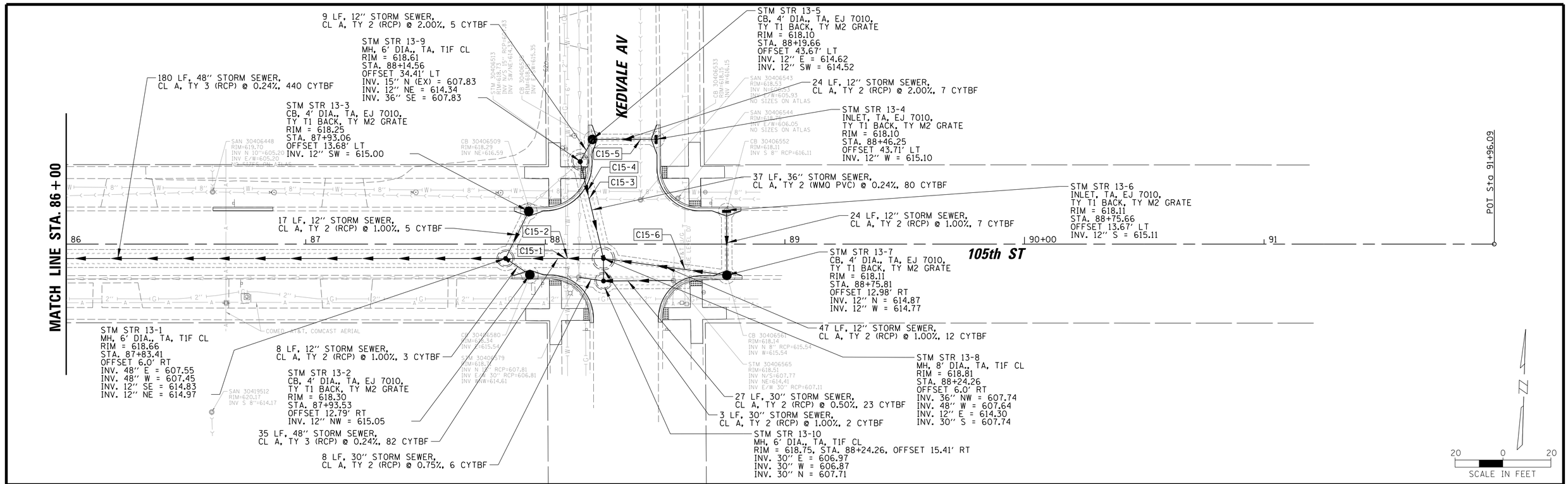
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DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE 105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	36 OF 75
DRAWING NO.	36



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VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME: N:\OakLawn\230445\Civil\SPP_230445_14.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT STORM SEWER PLAN AND PROFILE 105TH STREET

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 37 OF 75
DRAWING NO. 37

UTILITY CONFLICT INFORMATION

Crossing No.	Station	Offset	Sheet Location	PIPE 1					PIPE 2						Comment	Ex. Ground Elev.
				Description	Material	Dia.	Top of Pipe	Bottom of Pipe	Description	Material	Dia.	Top of Pipe	Bottom of Pipe	Vert. Clearance (FT)		
C1-1	DETENTION BASIN		22	PROP. BASIN			BASIN FG ELEV 591.00		EX. SAN	UNKNOWN	8"	584.92	584.09	6.08	MH 30427199 @ 109TH ST. INV N 584.17	596.52
C2-1	105+42.51	10.63' RT	23	PROP. STM	RCP	48"	603.30	598.46	EX. SAN	UNKNOWN	8"	584.92	584.09	13.54	MH 30427199 @ 109TH ST. INV N 584.17	597.36
C3-1	108+07.74	9.98' RT	24	PROP. STM	RCP	48"	594.66	589.82	EX. GAS		2"	593.51	593.34	1.32		596.51
C3-2	108+14.06	9.96' RT	24	PROP. STM	RCP	48"	594.66	594.82	EX. WM		8"	590.87	590.12	3.95		596.37
C6-1	30+80.43	6.0' RT	27	PROP. STM	RCP	58X91	593.42	587.34	EX. FIBER OPTIC				595.11	1.69		597.11
C6-2	31+29.43	6.0' RT	27	PROP. STM	RCP	58X91	593.45	587.37	EX. FIBER OPTIC				595.22	1.77		597.22
C6-3	31+43.19	6.0' RT	27	PROP. STM	RCP	58X91	593.45	587.37	EX. COMCAST				595.82	2.37		597.32
C6-4	32+10.54	6.0' RT	27	PROP. STM	RCP	58X91	592.47	587.63	EX. TELE				595.08	2.61		597.08
C6-5	32+18.22	6.0' RT	27	PROP. STM	RCP	58X91	592.47	587.63	EX. TELE				595.09	2.62		597.09
C6-6	32+68.48	6.0' RT	27	PROP. STM	RCP	58X91	593.62	587.54	EX. WM		12"	586.04	584.94	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	597.00
C6-7	32+72.69	6.0' RT	27	PROP. STM	RCP	58X91	593.63	587.55	EX. GAS		8"	593.99	593.24	-0.39	GAS TO BE ADJUSTED BY OTHERS	596.99
C7-1	35+51.91	6.0' RT	28	PROP. STM	RCP	58X91	593.88	587.80	EX. GAS		2"		594.49	0.61		596.49
C7-2	35+51.56	23.80' LT	28	PROP. STM	RCP	12"	592.25	590.91	EX. GAS		2"		594.48	2.23		596.48
C7-3	35+53.34	24.72' LT	28	PROP. STM	RCP	12"	593.23	590.89	EX. TELE				594.50	1.27		596.50
C7-4	35+95.40	6.0' RT	28	PROP. STM	RCP	58X91	593.91	587.83	EX. WM		6"	586.33	585.58	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	596.53
C7-5	36+02.40	6.0' RT	28	PROP. STM	RCP	58X91	593.91	587.83	EX. GAS		2"		594.50	0.59		596.50
C7-6	37+48.19	6.0' RT	28	PROP. STM	RCP	58X91	594.08	588.00	EX. GAS		2"		594.73	0.65		596.73
C7-7	38+85.81	6.0' RT	28	PROP. STM	RCP	58X91	594.17	588.09	EX. GAS		2"		595.28	1.11		597.28
C7-8	39+29.39	6.0' RT	28	PROP. STM	RCP	58X91	594.29	588.21	EX. WM		6"	586.71	586.13	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	597.33
C7-9	39+36.58	6.0' RT	28	PROP. STM	RCP	58X91	594.29	588.84	EX. GAS		2"		595.50	1.21		597.30
C8-1	42+20.40	6.0' RT	29	PROP. STM	RCP	58X91	594.55	588.47	EX. GAS		2"		594.40	0.15		596.40
C8-2	42+23.55	6.0' RT	29	PROP. STM	RCP	58X91	594.56	588.48	EX. WM		6"	586.98	586.40	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	596.50
C8-3	42+68.75	6.0' RT	29	PROP. STM	RCP	58X91	594.58	588.50	EX. GAS		2"		594.57	0.01		596.57
C9-1	51+57.08	15.07' RT	30	PROP. STM STR	PCC	4'		*590.07	EX. GAS		2"		595.07	5.00	FIELD VERIFY FOR HORIZONTAL CONFLICT	597.07
C9-2	51+56.97	4.42' RT	30	PROP. STM	RCP	12"	594.74	593.40	EX. TELE				595.15	0.41		597.15
C9-3	51+86.83	7.71' RT	30	PROP. STM	RCP	12"	594.28	592.94	EX. WM		6"	591.44	590.86	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	597.31
C9-4	52+30.28	6.00' RT	30	PROP. STM	RCP	48"	593.82	588.98	EX. GAS		2"		595.11	1.29		597.11
C9-5	52+00.60	23.00' RT	30	PROP. STM	RCP	58X91	594.84	588.76	EX. TELE				595.36	0.52		597.36
C9-6	52+00.31	15.04' RT	30	PROP. STM	RCP	58X91	594.84	588.76	EX. GAS		2"		595.47	0.63		597.47
C9-7	52+00.45	26.89' RT	30	PROP. STM	RCP	58X91	594.84	588.76	EX. WM		6"	587.26	586.68	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	597.32
C9-8	55+12.48	6.00' RT	30	PROP. STM	RCP	48"	594.21	589.37	EX. WM		6"	587.87	587.29	6.92	PROVIDE MIN. 18" VERTICAL CLEARANCE	597.20
C9-9	55+52.17	39.49' LT	30	PROP. STM	RCP	12"	594.59	593.25	EX. GAS		2"		595.26	-0.67	GAS TO BE ADJUSTED BY OTHERS	597.26
C9-10	55+54.82	25.29' LT	30	PROP. STM	RCP	12"	594.47	593.13	EX. GAS		2"		595.28	-0.81	GAS TO BE ADJUSTED BY OTHERS	597.28
C9-11	55+54.68	20.31' LT	30	PROP. STM	RCP	12"	594.42	593.08	EX. SAN		15"	585.53	584.25	10.17		597.20
C10-1	58+30.35	6.0' RT	31	PROP. STM	RCP	48"	594.61	589.77	EX. TELE				596.38	1.77		598.38
C10-2	58+37.16	6.0' RT	31	PROP. STM	RCP	48"	594.62	589.78	EX. WM		6"	588.28	587.70	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	598.38
C10-3	58+64.76	18.75' LT	31	PROP. STM	RCP	15"	595.08	593.45	EX. SAN		15"	588.90	587.62	7.46		598.34
C10-4	58+67.77	24.57' LT	31	PROP. STM	RCP	15"	595.15	593.52	EX. GAS		2"		596.30	1.15		598.30
C10-5	58+71.49	31.79' LT	31	PROP. STM	RCP	15"	595.23	593.60	EX. TELE				596.11	0.88		598.11
C10-6	58+81.07	6.0' RT	31	PROP. SAN	PVC	8"	585.43	584.71	EX. GAS		2"		596.36	10.93		598.36
C10-7	59+12.21	6.0' RT	31	PROP. SAN	PVC	8"	585.73	585.01	EX. TELE				596.49	10.76		598.49
C10-8	58+74.44	6.0' RT	31	PROP. STM	RCP	48"	594.74	589.90	EX. SAN		10"	585.56	584.67	10.07		598.38
C10-9	58+74.51	10.22' RT	31	PROP. STM	RCP	12"	595.72	594.38	EX. SAN		10"	585.61	584.72	11.00		598.28
C10-10	58+81.43	11.52' RT	31	PROP. STM	RCP	12"	595.80	594.46	EX. GAS		2"		596.38	0.58		598.38
C10-11	58+81.32	6.0' RT	31	PROP. STM	RCP	48"	594.72	589.88	EX. GAS		2"		598.25	3.53		598.25
C10-12	59+12.22	6.0' RT	31	PROP. STM	RCP	48"	594.75	589.91	EX. TELE				596.34	1.59		598.34
C10-13	59+19.69	6.0' RT	31	PROP. STM	RCP	48"	594.75	589.91	EX. TELE				596.38	1.63		598.38
C10-14	60+14.76	6.0' RT	31	PROP. STM	RCP	48"	594.77	589.93	EX. COMED				595.93	1.16		598.93.
C10-15	60+18.87	6.0' RT	31	PROP. STM	RCP	48"	594.77	589.93	EX. TELE				596.94	2.17		598.94
C10-16	60+14.75	6.0' RLT	31	PROP. SAN	PVC	8"	586.76	586.04	EX. COMED				596.94	10.18		598.97
C10-17	60+18.21	6.0' RT	31	PROP. STM	RCP	48"	586.79	586.07	EX. TELE				596.42	9.63		598.99
C10-18	61+58.13	19.25' LT	31	PROP. STM	RCP	15"	596.60	594.97	EX. SAN		15"	593.77	592.49	1.20		599.42
C10-19	61+59.20	25.35' LT	31	PROP. STM	RCP	15"	596.71	595.08	EX. GAS		2"		597.69	0.98		599.69
C10-20	61+60.25	31.35' LT	31	PROP. STM	RCP	15"	596.72	595.09	EX. TELE				597.65	0.93		599.65

* = BOTTOM OF STRUCTURE

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME N:\OakLawn\230445\Civil\UCI_230445_01.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	N.T.S.
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
UTILITY CONFLICT INFORMATION

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 38 OF 75
DRAWING NO.
38

UTILITY CONFLICT INFORMATION

Crossing No.	Station	Offset	Sheet Location	PIPE 1					PIPE 2						Comment	Ex. Ground Elev.
				Description	Material	Dia.	Top of Pipe	Bottom of Pipe	Description	Material	Dia.	Top of Pipe	Bottom of Pipe	Vert. Clearance (FT)		
C10-21	61+64.84	37.88' LT	31	PROP. STM	PVC	15"	596.51	595.23	EX. GAS		2"		597.78	1.27		599.78
C10-22	61+68.52	39.12' LT	31	PROP. STM	PVC	15"	596.80	595.52	EX. WM		6"	594.02	593.44	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	599.80
C10-23	61+68.72	6.0' RT	31	PROP. STM	RCP	48"	595.04	590.20	EX. WM		6"	588.70	588.67	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	599.73
C10-24	59+06.84	26.07' RT	31	PROP. SAN SER	PVC	6"	590.27	589.72	EX. WM		8"	593.02	592.27	2.00		598.52
C10-25	60+08.35	26.23' RT	31	PROP. SAN SER	PVC	6"	590.95	590.40	EX. WM		8"	593.70	592.95	2.00		599.20
C10-26	60+43.70	26.32' RT	31	PROP. SAN SER	PVC	6"	591.83	591.28	EX. WM		8"	594.58	593.83	2.00		599.36
C10-27	61+29.86	26.57' RT	31	PROP. SAN SER	PVC	6"	591.39	590.84	EX. WM		8"	594.14	593.39	2.00		599.64
C11-1	62+09.75	6.0' RT	32	PROP. STM	RCP	48"	595.06	590.22	EX. GAS		2"		597.79	2.73		599.79
C11-2	62+12.29	6.0' RT	32	PROP. STM	RCP	48"	595.06	590.22	EX. TELE				597.78	2.72		599.78
C11-3	62+15.94	6.0' RT	32	PROP. STM	RCP	48"	595.06	590.22	EX. TELE				597.79	2.73		599.79
C11-4	64+77.01	6.0' RT	32	PROP. STM	RCP	48"	595.34	590.50	EX. COMCAST				603.51	8.17		605.51
C11-5	64+79.51	6.0' RT	32	PROP. STM	RCP	48"	595.34	590.50	EX. COMED				602.58	7.24		605.58
C11-6	64+92.86	6.0' RT	32	PROP. STM	RCP	48"	595.35	590.51	EX. GAS		2"		603.92	8.57		605.92
C11-7	65+00.87	6.0' RT	32	PROP. STM	RCP	48"	595.35	590.51	EX. WM		8"	600.59	599.84	4.49		606.09
C11-8	65+44.37	29.88' LT	32	PROP. STM	PVC	12"	602.62	601.56	EX. WM		8"	600.06	599.31	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	606.52
C11-9	65+45.30	28.87' LT	32	PROP. STM	PVC	12"	602.56	601.50	EX. GAS		2"		604.53	1.97		606.53
C11-10	65+48.61	25.56' LT	32	PROP. STM	PVC	12"	602.40	601.34	EX. GAS		2"		604.52	2.12		606.52
C11-11	65+53.95	20.20' LT	32	PROP. STM	PVC	12"	602.60	601.54	EX. SAN		12"	597.52	596.46	6.14		606.34
C12-1	68+28.58	6.0' RT	33	PROP. STM	RCP	48"	597.35	592.51	EX. WM		6"	603.33	602.75	5.40		608.83
C12-2	68+65.77	40.46' LT	33	PROP. STM	RCP	12"	606.44	605.10	EX. GAS		2"		607.39	0.95		609.39
C12-3	68+69.23	6.0' RT	33	PROP. STM	PVC	12"	605.04	603.98	EX WM		8"	602.48	601.76	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	609.57
C12-4	68+70.57	18.30' RT	33	PROP. STM	PVC	12"	604.97	603.91	EX. GAS		2"		607.09	2.12		609.09
C12-5	68+68.56	24.21' RT	33	PROP. STM	PVC	12"	604.89	603.83	EX. SAN		12"	599.49	598.43	4.34		608.96
C12-6	69+97.74	6.0' RT	33	PROP. STM	RCP	48"	597.62	592.78	EX. GAS		2"		606.96	9.34		608.96
C12-7	70+09.19	6.0' RT	33	PROP. STM STR	PCC	4'		601.04	EX. GAS		2"		606.52		FIELD VERIFY FOR HORIZONTAL CONFLICT	608.52
C12-8	70+17.15	6.0' RT	33	PROP. STM	RCP	12"	605.71	604.37	EX. TELE				606.69	0.98		608.69
C12-9	71+48.62	6.0' RT	33	PROP. STM	RCP	48"	598.17	593.33	EX. TELE		2"		607.45	9.28		609.45
C12-10	71+95.76	27.09' LT	33	PROP. STM	RCP	48"	598.20	593.36	EX. TELE				607.50	9.30		609.50
C12-11	71+95.76	24.70' LT	33	PROP. STM	RCP	48"	598.20	593.36	EX. SAN		12"	604.23	603.17	4.97		609.55
C12-12	71+95.76	18.45' LT	33	PROP. STM	RCP	48"	598.69	593.85	EX. GAS		2"		608.15	9.46		610.15
C12-13	72+04.45	27.18' RT	33	PROP. STM	PVC	15"	606.13	604.85	EX. WM		8"	603.35	602.30	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	610.00
C12-14	72+13.57	6.0' RT	33	PROP. STM	PVC	15"	606.10	604.82	EX. GAS		2"		608.03	1.93		610.03
C12-15	73+45.86	6.0' RT	33	PROP. STM	PVC	15"	606.03	604.75	EX. SAN		12"	600.42	599.36	4.33		610.11
C12-16	73+51.72	6.0' RT	33	PROP. STM	RCP	48"	599.07	594.23	EX. WM		12"	604.66	603.56	4.49		610.16
C12-17	73+53.86	6.0' RT	33	PROP. STM	RCP	12"	607.14	641.63	EX. TELE				608.16	1.02		610.05
C12-18	73+45.60	6.0' RT	33	PROP. STM	RCP	48"	599.75	594.91	EX. TELE				609.31	9.56		611.31
C12-19	73+51.72	6.0' RT	33	PROP. STM	RCP	48"	599.78	594.94	EX. SAN		10"	604.16	603.27	3.49		611.36
C12-20	73+53.86	6.0' RT	33	PROP. STM	RCP	48"	599.79	594.95	EX. TELE				609.11	9.32		611.38
C13-1	74+85.40	6.0' RT	34	PROP. STM	RCP	48"	600.41	595.57	EX. WM		6"	607.08	606.50	6.09		612.58
C13-2	74+85.93	6.0' RT	34	PROP. STM	RCP	48"	600.42	595.58	EX. GAS		2"		610.59	10.17		612.59
C13-3	76+19.13	6.0' RT	34	PROP. STM	RCP	48"	601.67	596.83	EX. SAN		10"	605.62	604.73	3.06		613.93
C13-4	78+20.74	6.0' RT	34	PROP. STM	RCP	48"	602.59	597.75	EX. WM		6"	609.53	608.95	6.36		615.03
C13-5	78+63.23	20.72' RT	34	PROP. STM	RCP	12"	611.95	610.61	EX. TELE				612.90	0.95		614.90
C13-6	78+61.78	24.56' RT	34	PROP. STM	RCP	12"	611.99	610.65	EX. GAS		2"		612.89	0.90		614.89
C13-7	78+68.81	6.0' RT	34	PROP. STM	RCP	48"	609.50	604.66	EX. GAS		2"		612.99	3.49		614.99
C14-1	80+01.30	6.0' RT	35	PROP. STM	RCP	48"	609.81	604.97	EX. SAN		10"	604.70	603.81	0.27		615.77
C14-2	81+45.25	6.0' RT	35	PROP. STM	RCP	48"	610.16	605.32	EX. GAS		2"		615.04	4.88		617.04
C14-3	81+52.34	6.0' RT	35	PROP. STM	RCP	48"	610.18	605.34	EX. WM		6"	612.26	611.68	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	617.12
C14-4	83+34.74	6.0' RT	35	PROP. STM	RCP	48"	610.79	605.95	EX. SAN		10"	605.62	604.73	0.33		617.73
C14-5	84+83.31	6.0' RT	35	PROP. STM	RCP	48"	611.15	606.31	EX. WM		6"	613.25	612.67	1.52	PROVIDE MIN. 18" VERTICAL CLEARANCE	618.75
C14-6	85+27.89	6.0' RT	35	PROP. STM	RCP	48"	611.26	606.42	EX. GAS		2"		616.80	5.54		618.80
C15-1	88+08.06	6.0' RT	36	PROP. STM	RCP	48"	612.01	607.17	EX. GAS		2"		616.72	4.71		618.72
C15-2	88+09.26	6.0' RT	36	PROP. STM	RCP	48"	612.01	607.17	EX. WM		6"	614.09	613.51	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	618.72
C15-3	88+18.30	18.85' LT	36	PROP. STM	PVC	36"	610.91	607.74	EX. SAN		12"	606.86	605.80	0.88		618.48
C15-4	88+17.53	22.07' LT	36	PROP. STM	PVC	36"	610.92	607.75	EX. WM		8"	613.17	612.42	1.50	PROVIDE MIN. 18" VERTICAL CLEARANCE	618.41
C15-5	88+39.75	43.70' LT	36	PROP. STM	RCP	12"	616.15	614.81	EX. SAN		12"	607.28	606.22	7.53		618.33
C15-6	88+58.28	10.61' RT	36	PROP. STM	RCP	12"	615.78	614.44	EX. TELE				616.40	0.62		618.40

* = BOTTOM OF STRUCTURE

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CLIENT:
THE VILLAGE OF OAK LAWN
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

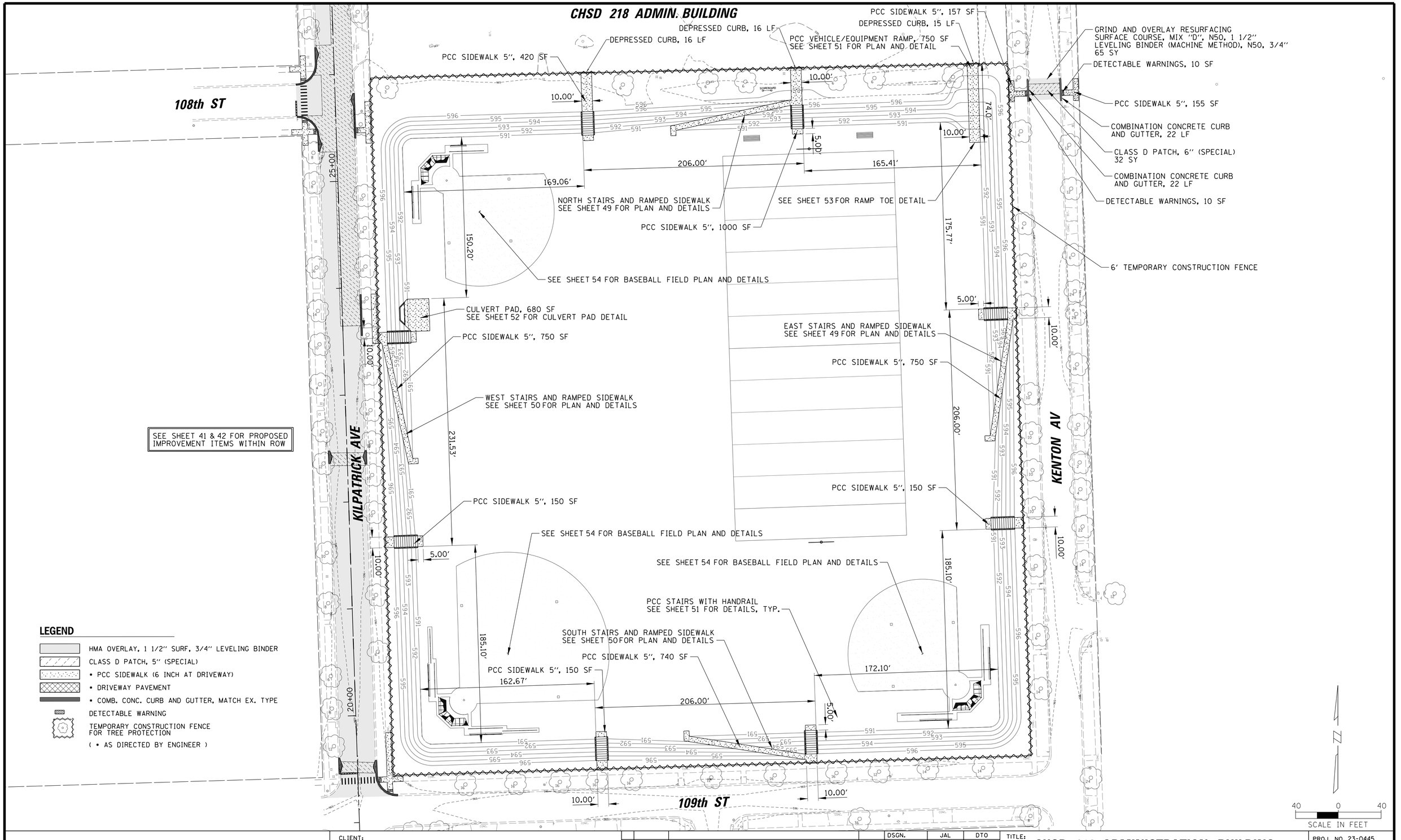
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME: N:\OakLawn\230445\Civil\UCI_230445_01.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
UTILITY CONFLICT INFORMATION

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 39 OF 75
DRAWING NO.
39



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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

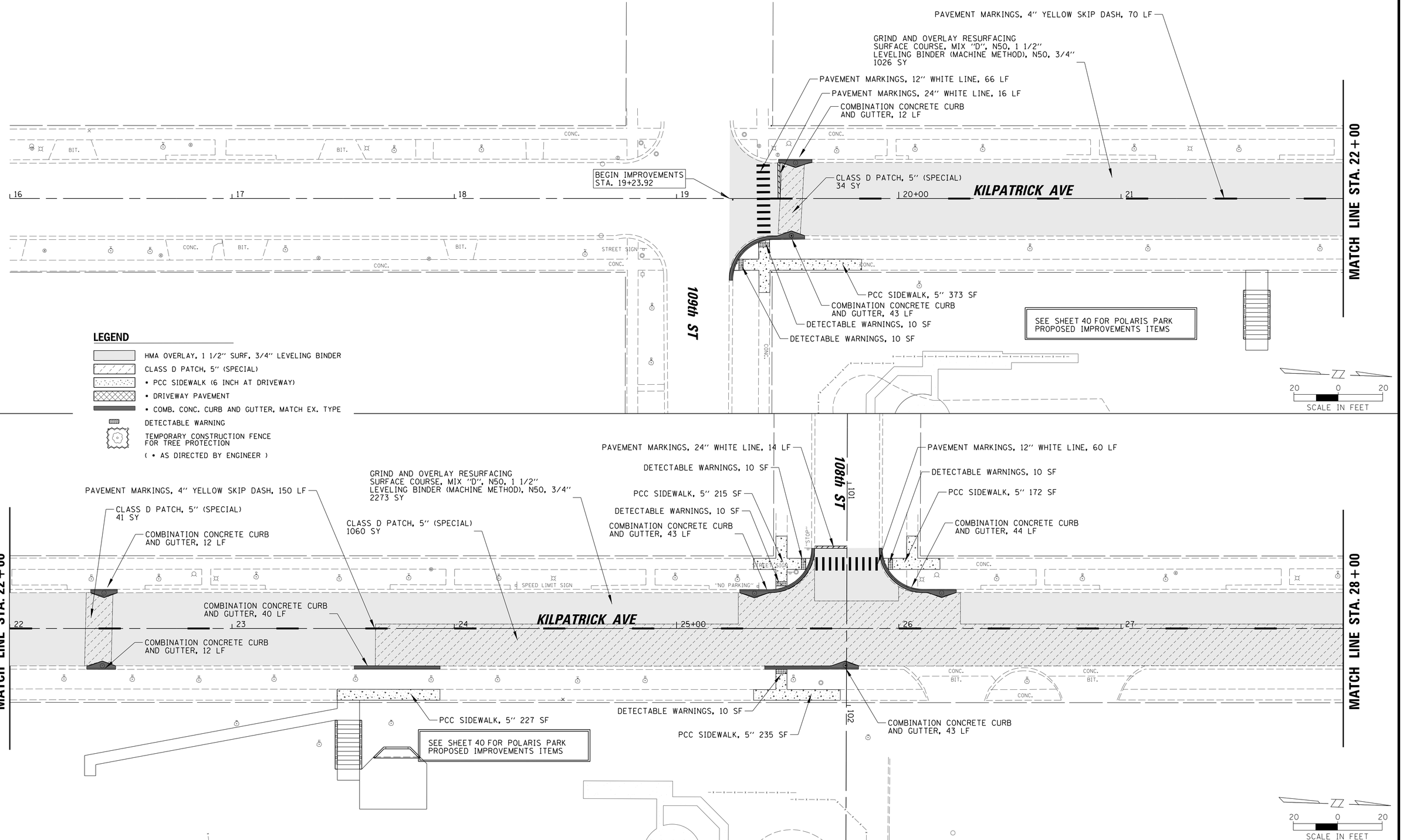
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	40'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default
FILE NAME	N:\OakLawn\230445\Civil\PRO_PIE_230445_01.Sht

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
PROPOSED IMPROVEMENT PLAN
POLARIS PARK

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	40 OF 75
DRAWING NO.	40



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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

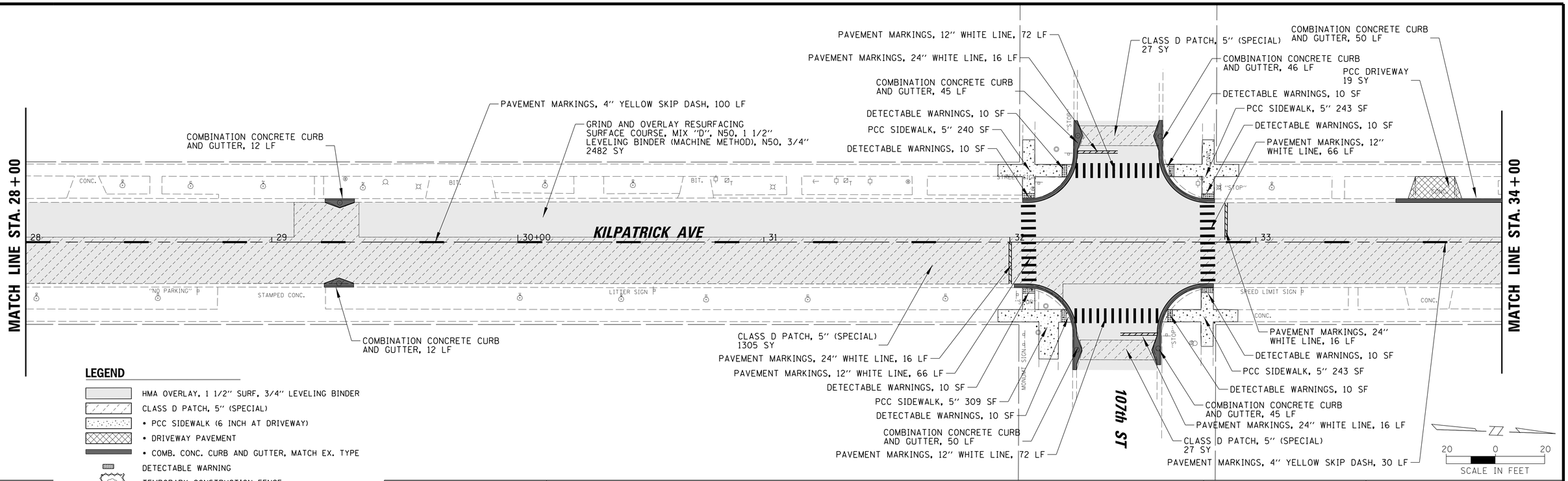
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
PROPOSED IMPROVEMENT PLAN
KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	41 OF 75
DRAWING NO.	41



LEGEND

- HMA OVERLAY, 1 1/2" SURF, 3/4" LEVELING BINDER
- CLASS D PATCH, 5" (SPECIAL)
- • PCC SIDEWALK (6 INCH AT DRIVEWAY)
- • DRIVEWAY PAVEMENT
- • COMB. CONC. CURB AND GUTTER, MATCH EX. TYPE
- DETECTABLE WARNING
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION (• AS DIRECTED BY ENGINEER)

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OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

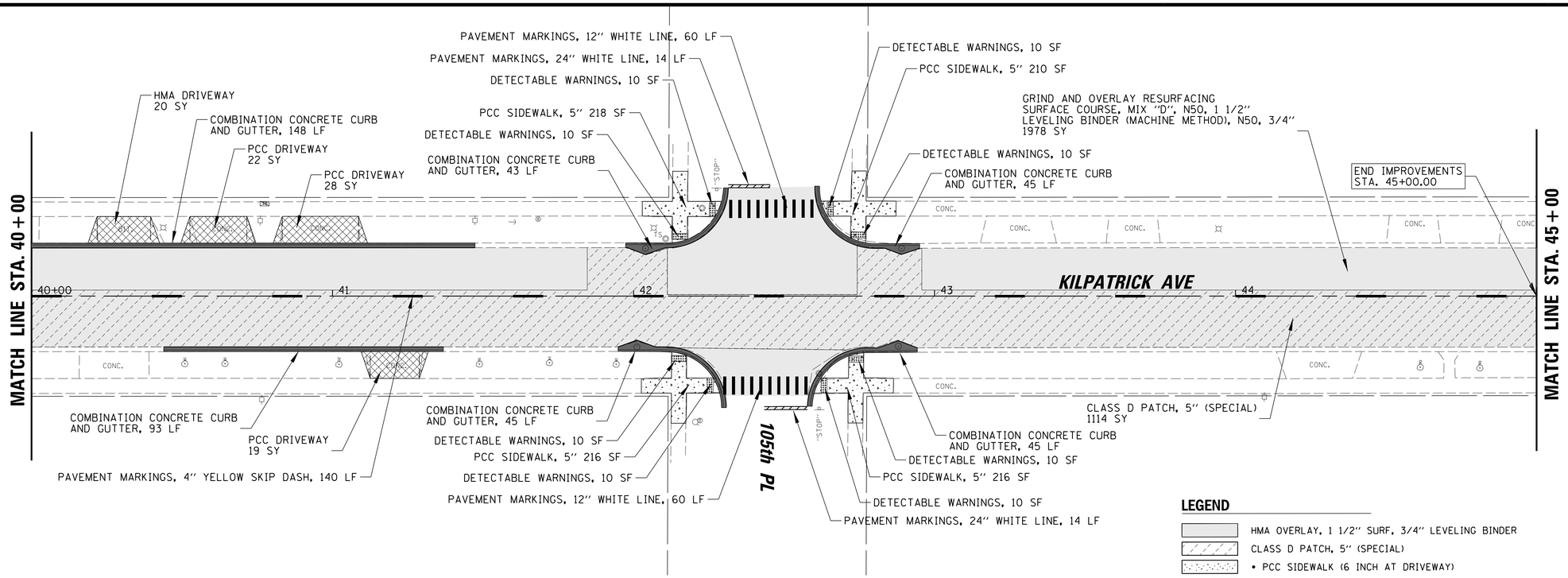
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
PROPOSED IMPROVEMENT PLAN
KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	42 OF 75
DRAWING NO.	42



LEGEND

- HMA OVERLAY, 1 1/2" SURF, 3/4" LEVELING BINDER
- CLASS D PATCH, 5" (SPECIAL)
- • PCC SIDEWALK (6 INCH AT DRIVEWAY)
- • DRIVEWAY PAVEMENT
- • COMB. CONC. CURB AND GUTTER, MATCH EX. TYPE
- DETECTABLE WARNING
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION

(• AS DIRECTED BY ENGINEER)

20 0 20
SCALE IN FEET

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OAK LAWN, ILLINOIS 60453

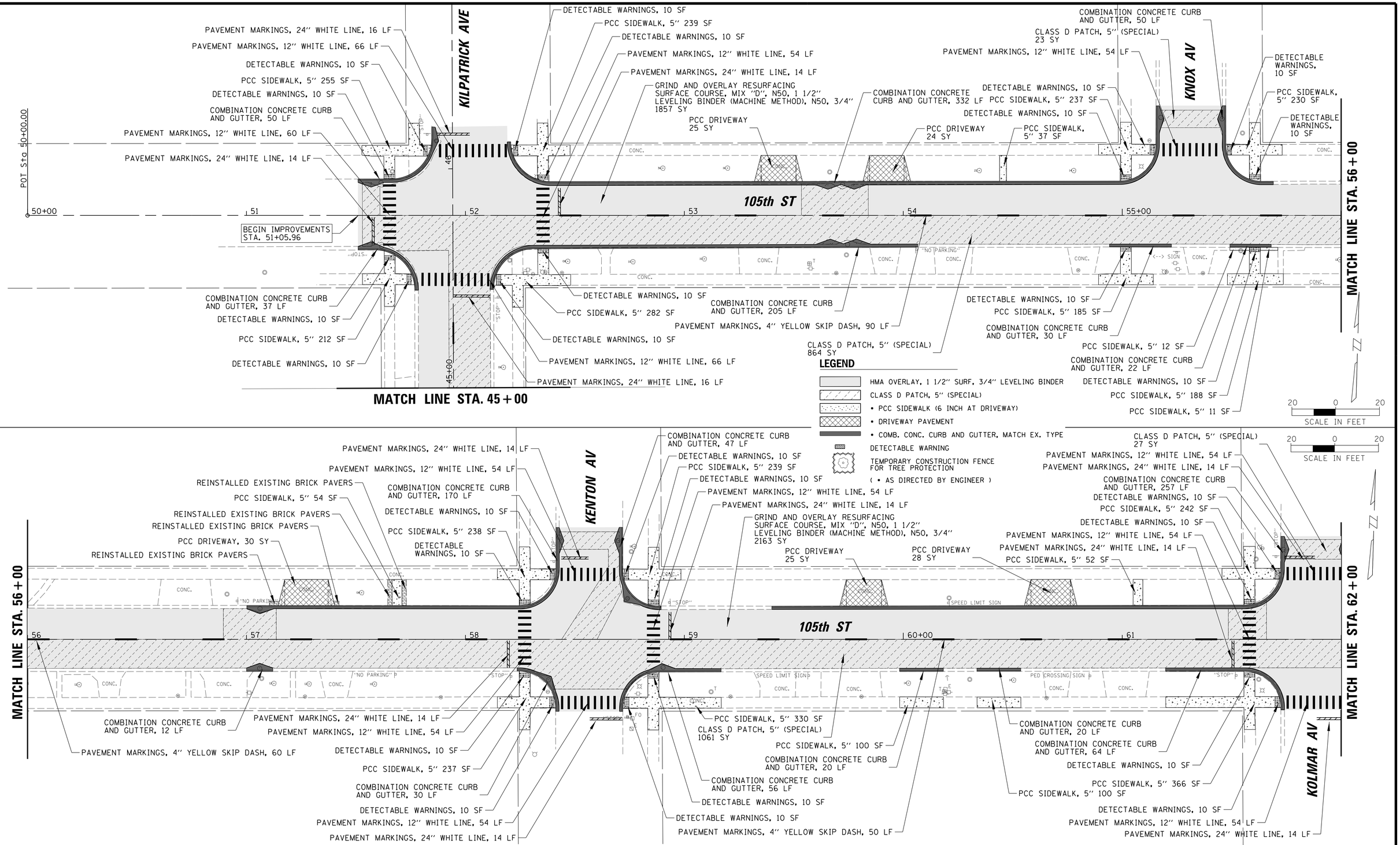
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME: N:\OakLawn\230445\Civil\PRO_230445_04.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
PROPOSED IMPROVEMENT PLAN
KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	43 OF 75
DRAWING NO.	43



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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

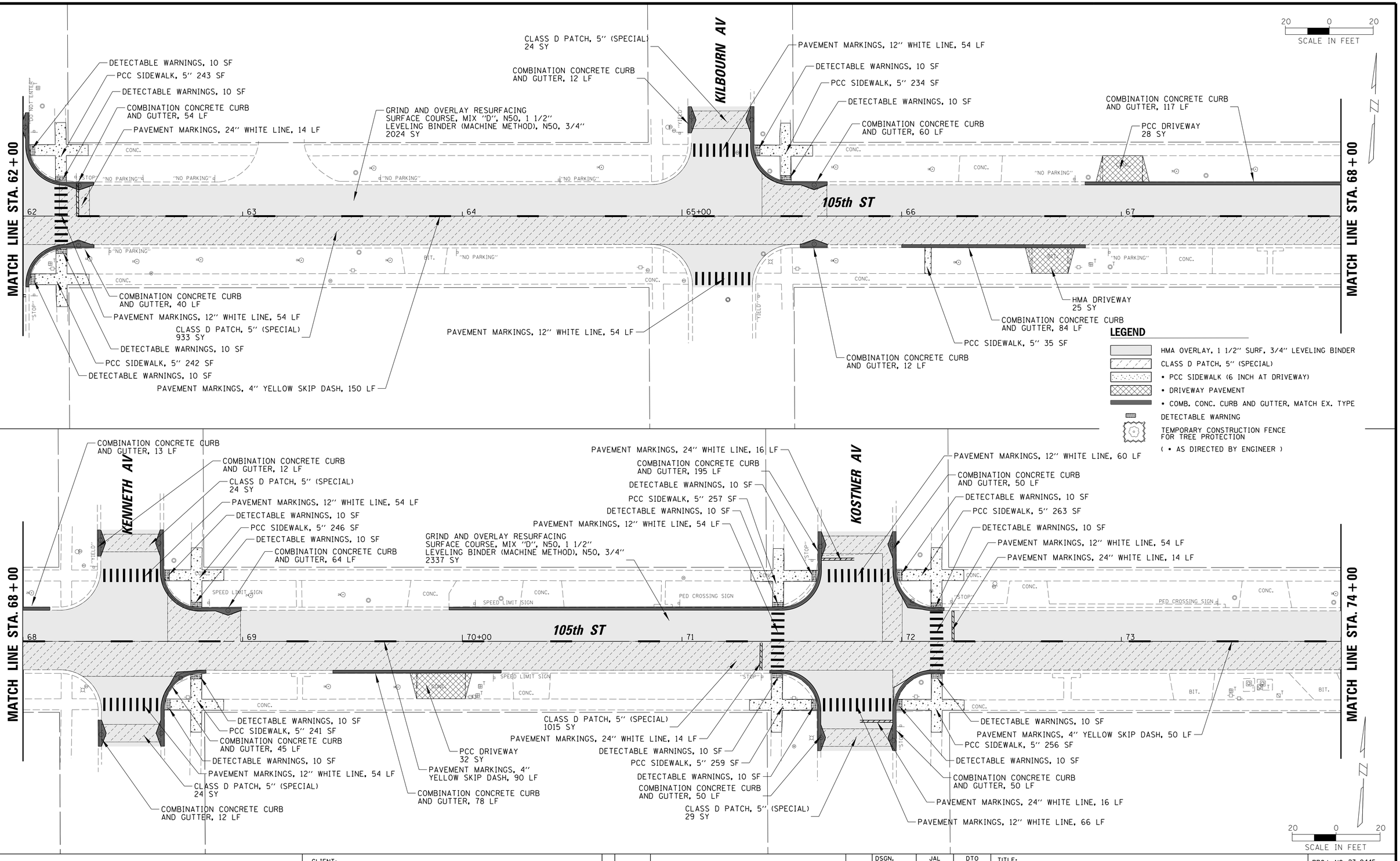
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
PROPOSED IMPROVEMENT PLAN
105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	44 OF 75
DRAWING NO.	44



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OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

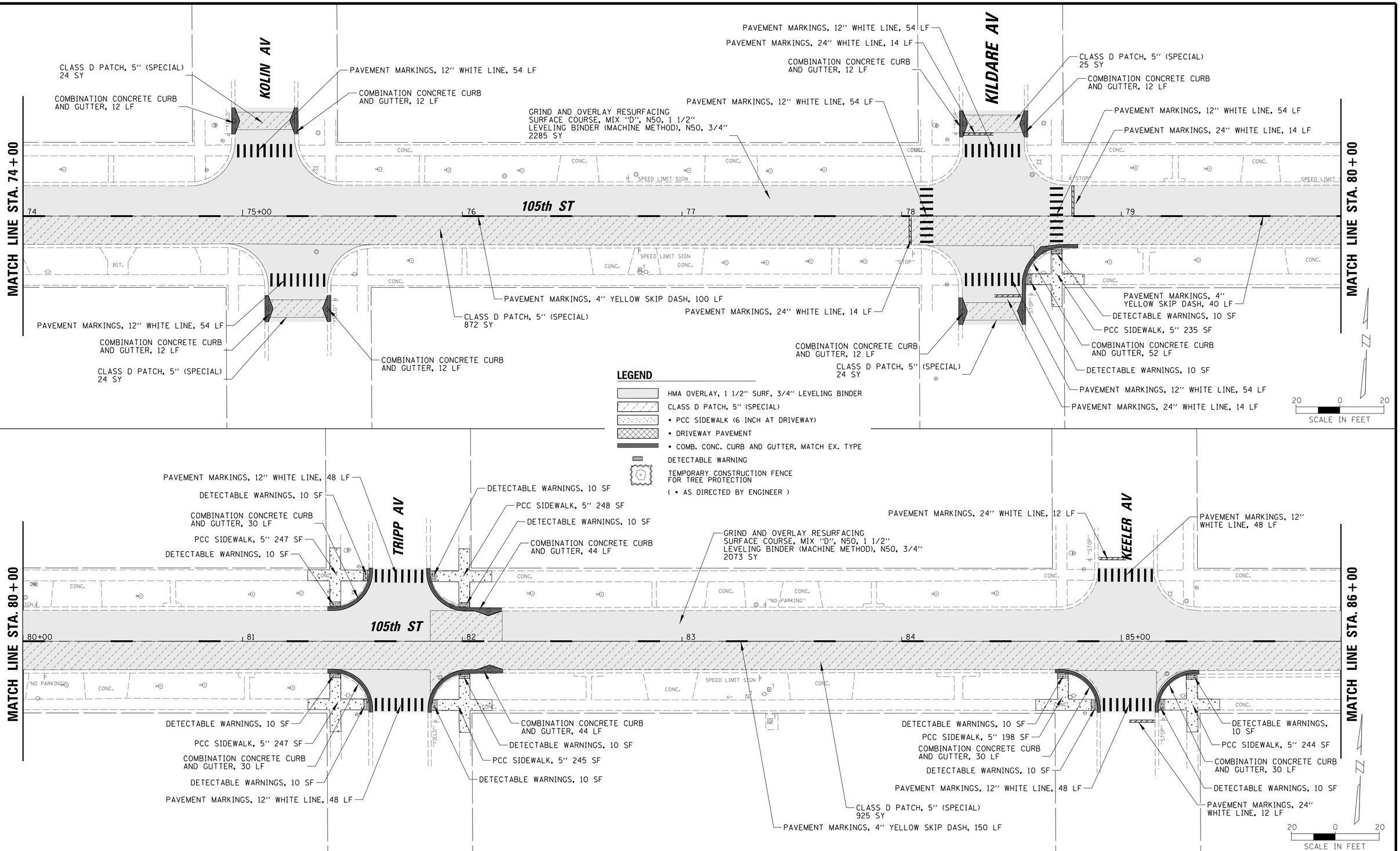
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
PROPOSED IMPROVEMENT PLAN
105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	45 OF 75
DRAWING NO.	45



LEGEND

- HMA OVERLAY, 1 1/2" SURF, 3/4" LEVELING BINDER
- CLASS D PATCH, 5" (SPECIAL)
- • PCC SIDEWALK (6 INCH AT DRIVEWAY)
- • DRIVEWAY PAVEMENT
- • COMB. CONC. CURB AND GUTTER, MATCH EX. TYPE
- DETECTABLE WARNING
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- (• AS DIRECTED BY ENGINEER)

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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

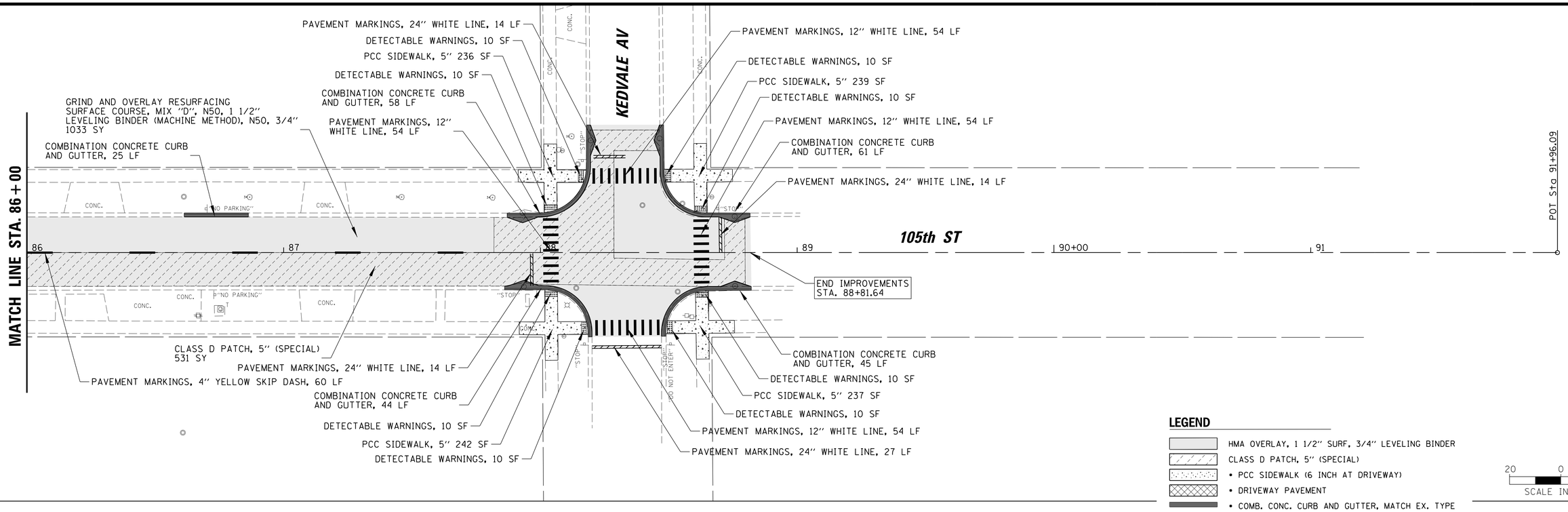
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DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
PROPOSED IMPROVEMENT PLAN
105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	46 OF 75
DRAWING NO.	46



LEGEND

- HMA OVERLAY, 1 1/2" SURF, 3/4" LEVELING BINDER
- CLASS D PATCH, 5" (SPECIAL)
- • PCC SIDEWALK (6 INCH AT DRIVEWAY)
- • DRIVEWAY PAVEMENT
- • COMB. CONC. CURB AND GUTTER, MATCH EX. TYPE
- DETECTABLE WARNING
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION (• AS DIRECTED BY ENGINEER)

N

20 0 20

SCALE IN FEET

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

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME: N:\OakLawn\230445\Civil\PRO_230445_08.sht

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DWN.	MAK
CHKD.	LMF
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PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
PROPOSED IMPROVEMENT PLAN
105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	47 OF 75
DRAWING NO.	47

CHSD 218 ADMIN. BUILDING

108th ST

KILPATRICK AVE

KENTON AV

109th ST

25+00

20+00

SW 596.00

SW 591.00

SW 590.95

4:1 SLOPE

EOP 591.00

RIM ELEV. = 589.65

RIM ELEV. = 591.00

GRD 591.00

RIM ELEV. = 590.44

RIM ELEV. = 590.72

RIM ELEV. = 590.45

RIM ELEV. = 590.38

RIM ELEV. = 590.13

0.50%

0.52%

N

40 0 40

SCALE IN FEET

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OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

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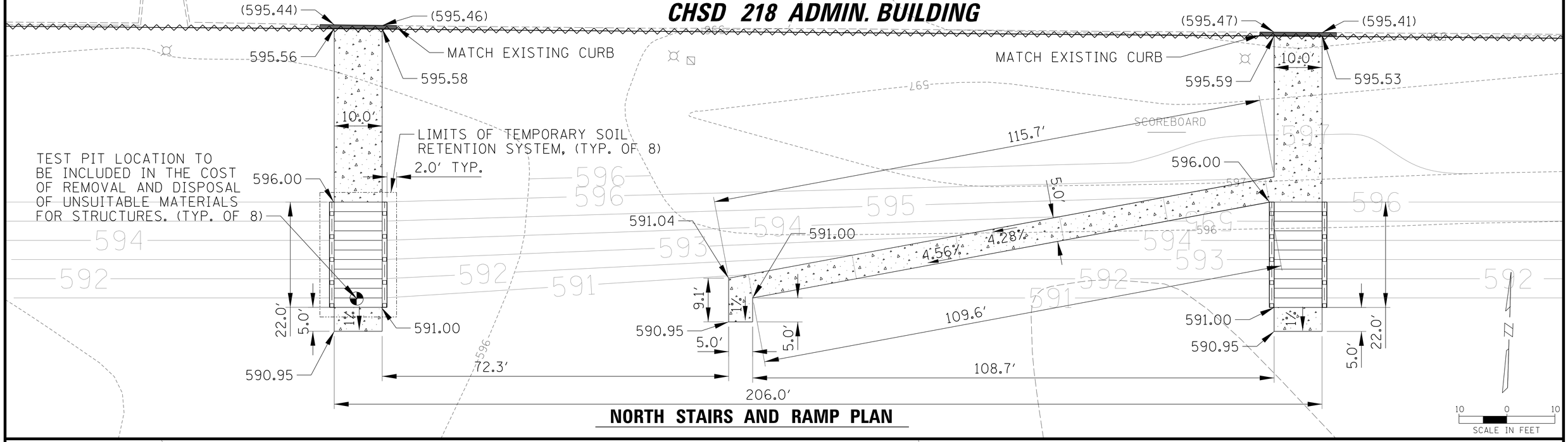
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CHKD.	LMF
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MODEL:	Default

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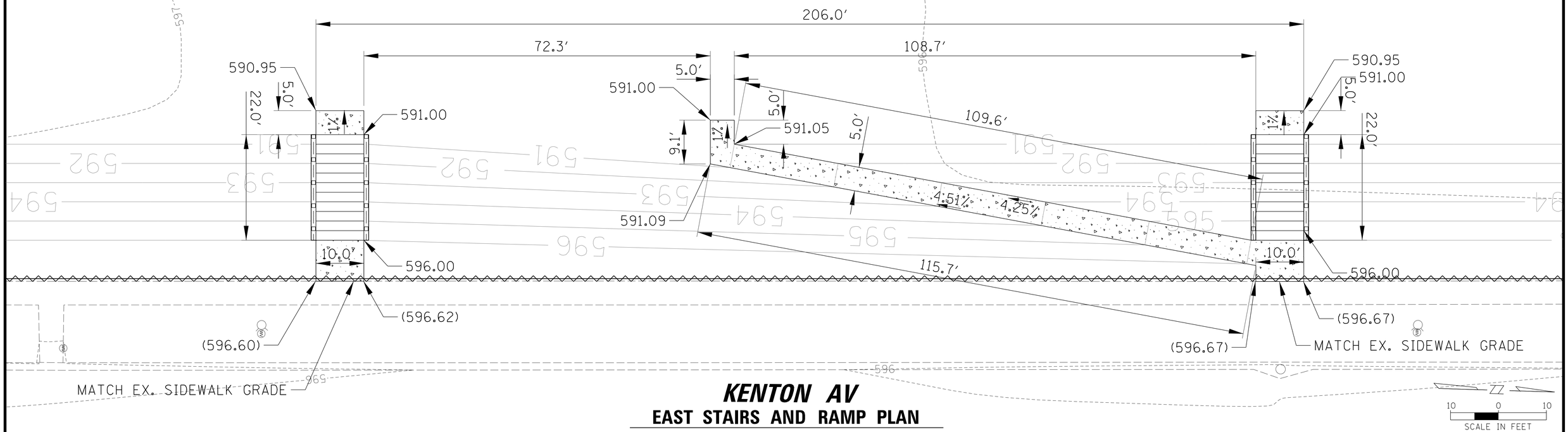
CHSD 218 ADMINISTRATION BUILDING
STORMWATER IMPROVEMENTS PROJECT
DETENTION BASIN GRADING PLAN
POLARIS PARK

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 48 OF 75
DRAWING NO. **48**

CHSD 218 ADMIN. BUILDING



NORTH STAIRS AND RAMP PLAN



KENTON AV
EAST STAIRS AND RAMP PLAN

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(847) 823-0500

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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

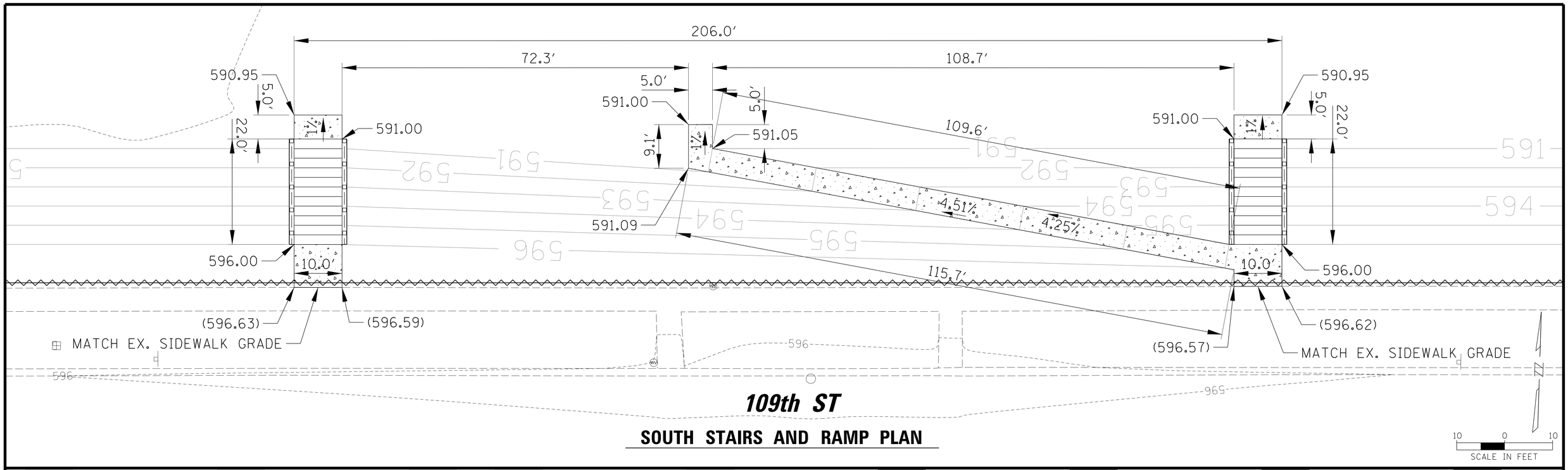
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DWN.	MAK
CHKD.	LMF PLB
SCALE:	10'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

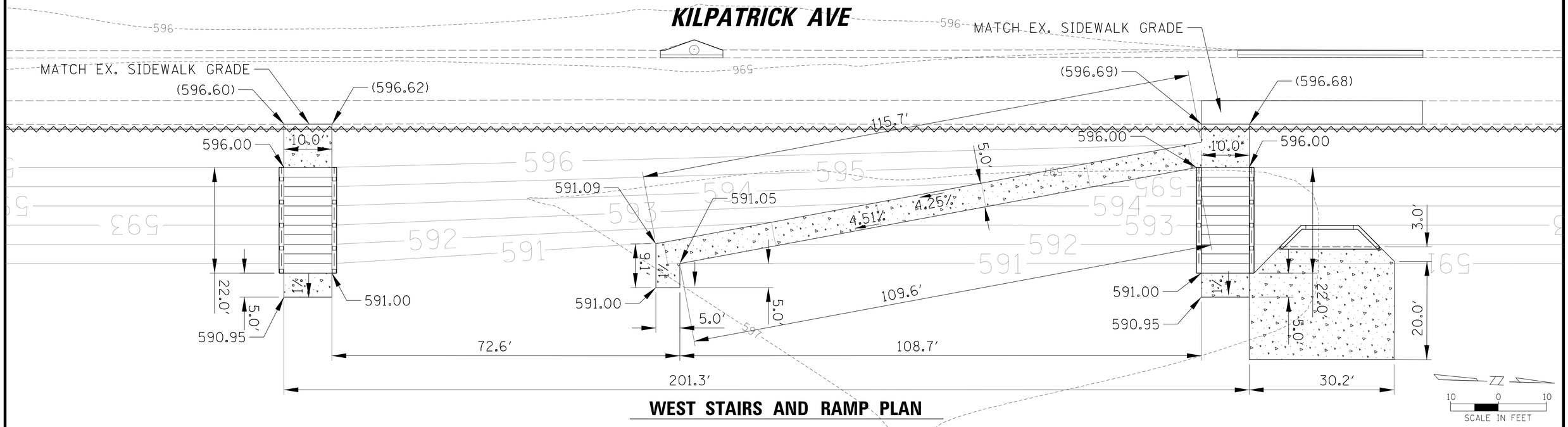
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CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
STAIRS AND RAMP GRADING PLANS AND DETAILS

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	49 OF 75
DRAWING NO.	49



SOUTH STAIRS AND RAMP PLAN

SCALE IN FEET: 10 0 10



WEST STAIRS AND RAMP PLAN

SCALE IN FEET: 10 0 10

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

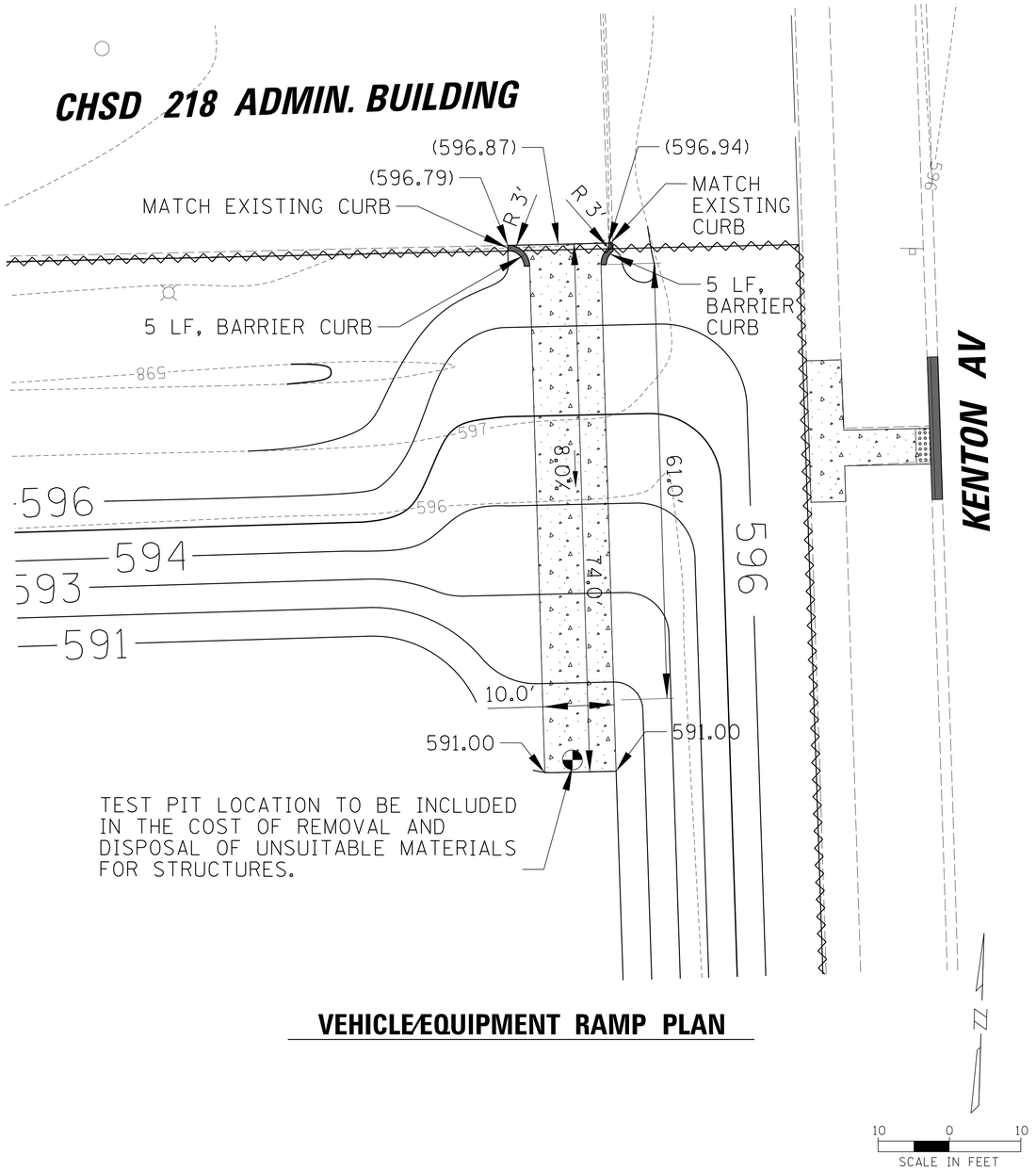
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DWN.	MAK
CHKD.	LMF PLB
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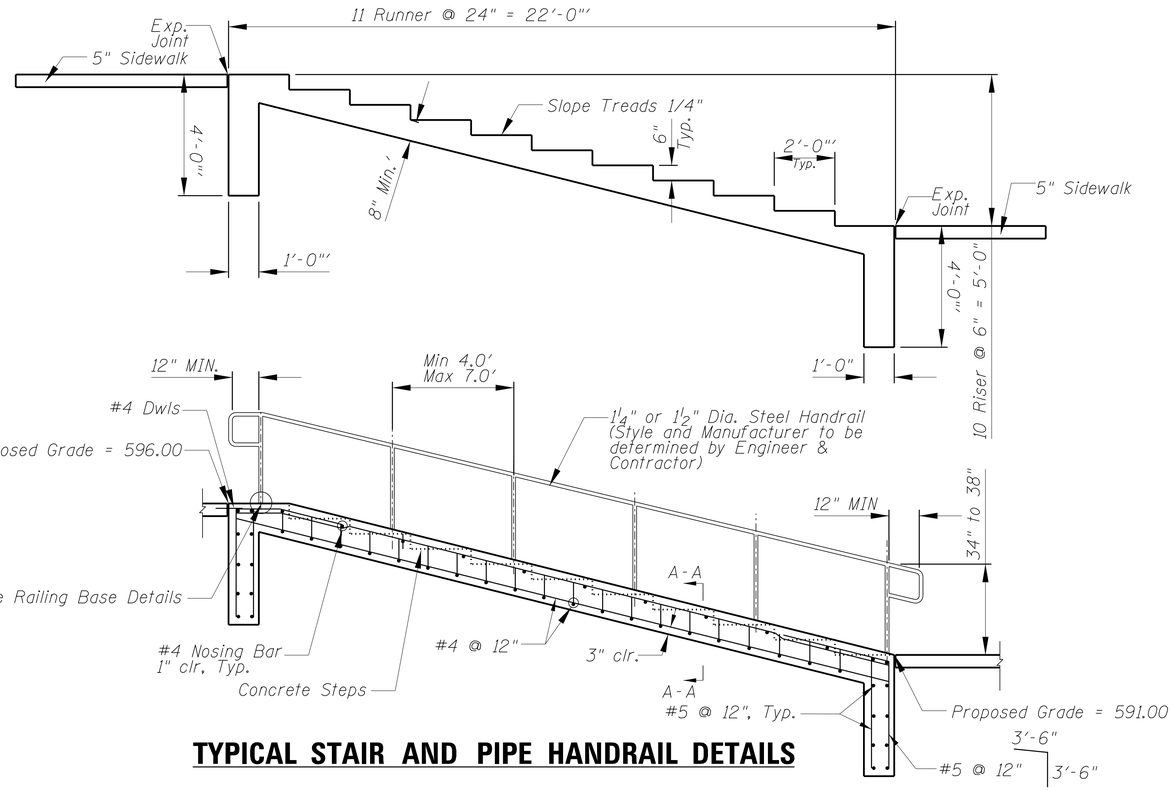
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CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
STAIRS AND RAMP GRADING PLANS AND DETAILS

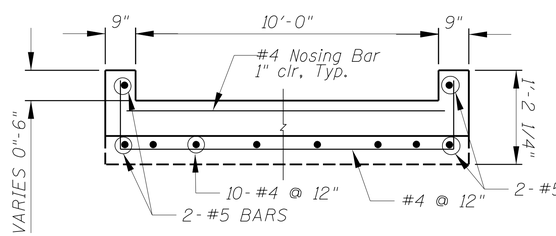
PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	50 OF 75
DRAWING NO.	50



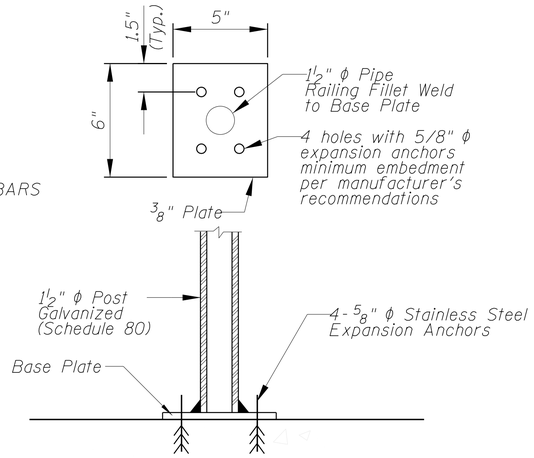
VEHICLE/EQUIPMENT RAMP PLAN



TYPICAL STAIR AND PIPE HANDRAIL DETAILS



SECTION A–A



RAILING BASE DETAILS

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(847) 823-0500

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF PLB
SCALE:	10'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default
FILE NAME	N:\OakLawn\230445\Civil\SWD_230445_03.sht

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
STAIRS AND RAMP GRADING PLANS AND DETAILS

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	51 OF 75
DRAWING NO.	51

General Notes

1. The building code applicable to this project is the International Building Code (IBC) 2018.

2. All work shall be done in accordance with the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, adopted April 2020.

3. All details and sections shown on the drawings are typical and shall be used wherever a similar condition occurs unless noted otherwise.

4. The contractor shall field verify all existing dimensions and conditions as it relates to new construction. Contractor shall report any discrepancies to the Engineer.

5. Design Loads:
   Dead Load……actual weight
   Ground Snow Load (P_g)……25 psf

	Uniform	Concentrated
Live Load		
Stairs	100 psf	300 lbs on 2"x2" area
Ramp	250 psf	3000 lbs on 4.5"x4.5" area

6. The contractor is responsible for the design, installation, and removal of all excavation support systems. This shall be incidental to the cost of the contract.

7. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E. 800-892-0123.

Excavation and Backfilling

1. Minimum required net bearing capacity is:

   1000 psf - for spread footings

2. Where foundation is over excavated, remove all disturbed foundation soil and replace with lean concrete or compacted structural backfill. Over excavate unsuitable foundation soil where required by the Engineer and replace with acceptable compacted structural backfill

Removal and Protection

1. Damage to adjacent facilities or structures during construction shall be repaired at no additional cost to the owner.

Cast-in-place concrete

1. Concrete work on this project shall conform to all requirements of ACI 301, standard specifications for structural concrete, published by the American Concrete Institute (ACI), Detroit, Michigan, except as modified by the requirements of these contract documents.

2. All concrete shall be provided with a minimum ultimate compressive strength at 28 days (f'c) of 3500 psi

3. All exterior concrete and concrete subject to freeze-thaw shall have 4% to 7% air content by volume measured in accordance with ASTM C231. Air entraining admixtures shall conform to ASTM C260. The slump shall not exceed 4 inches measured in accordance with ASTM C143.

4. Reinforcing steel shall conform to ASTM A-615 Grade 60.

5. Submit shop drawings of the reinforcement bars prepared in accordance with ACI 315, details and detailing of concrete reinforcement.

6. All reinforcement shall be epoxy coated.

7. Welding of reinforcing bars shall not be permitted.

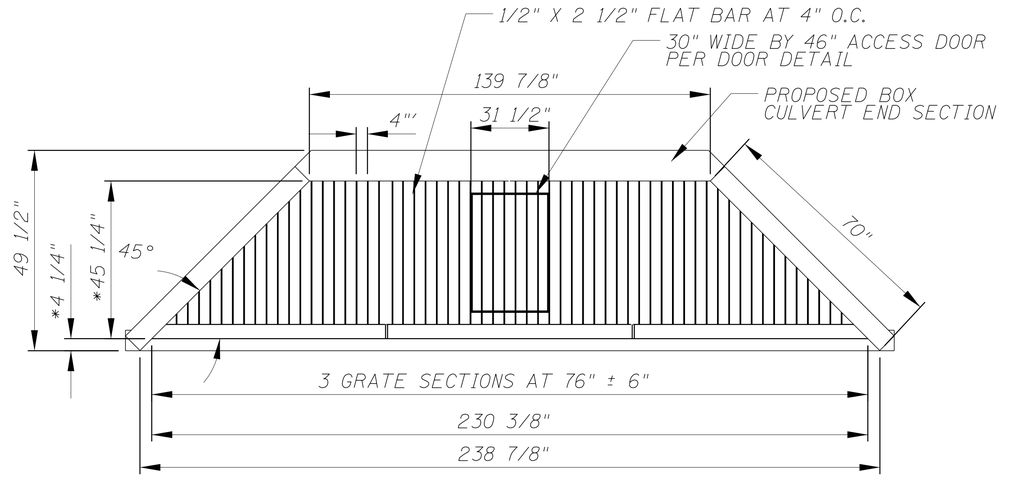
8. No calcium chloride will be used in concrete.

9. Dusting with any material to absorb surface water is prohibited.

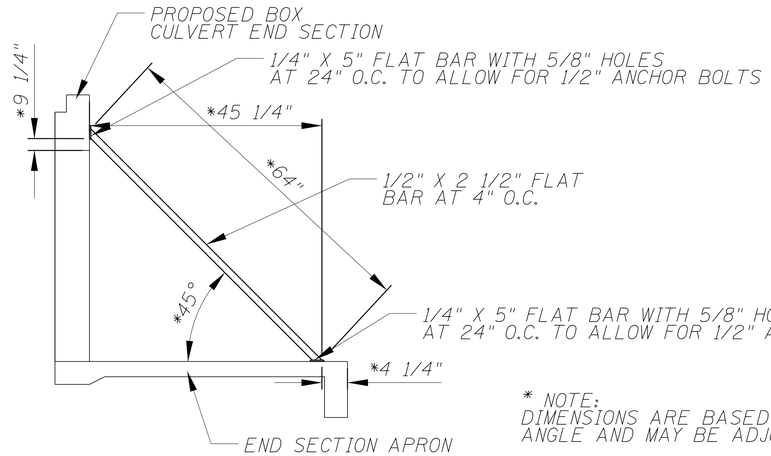
10. Curing procedures in accordance with ACI 301 shall continue for a period of at least 7 days.

11. Do not mix salt, chemicals or other foreign materials with the concrete to prevent freezing. Maintain the temperature of the concrete above 50 degrees Fahrenheit for five days after placement.

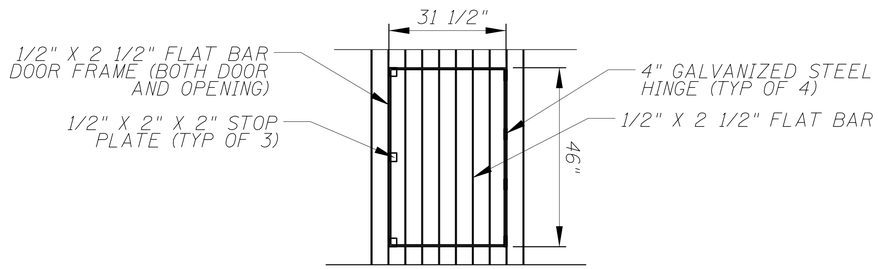
12. All exposed concrete edges shall have a ¾" x 45 degree chamfer, except where shown otherwise.



BOX CULVERT GRATE PLAN VIEW



BOX CULVERT GRATE SECTION VIEW



GRATE DOOR DETAIL

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

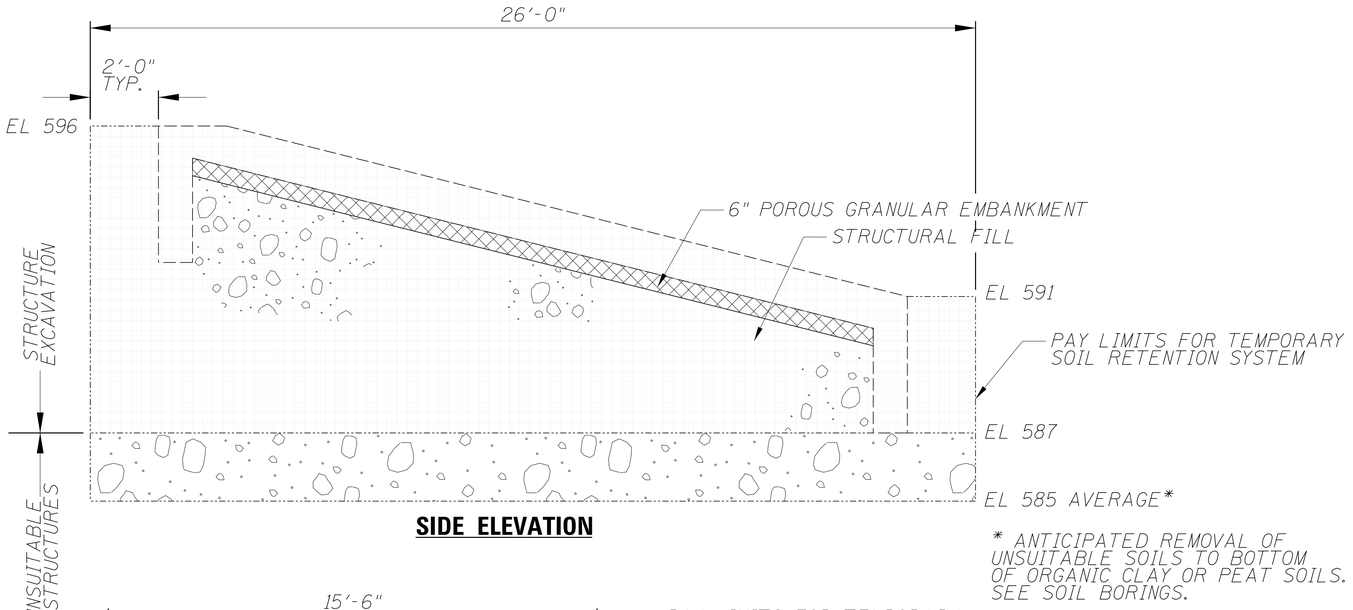
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FILE NAME: N:\OakLawn\230445\Civil\SWD_230445_03.sht

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DWN.	MAK
CHKD.	LMF PLB
SCALE:	10'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

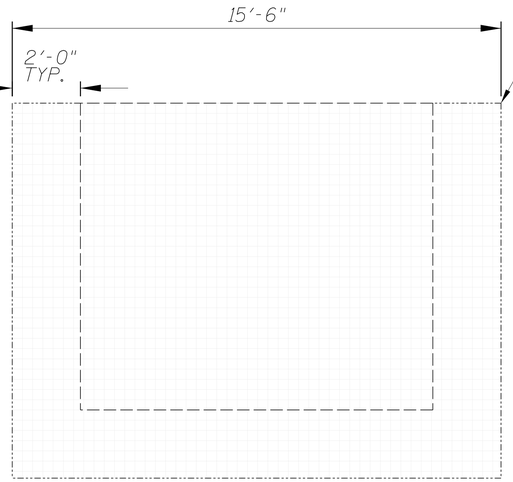
TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
STAIRS AND RAMP GRADING PLANS AND DETAILS

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 52 OF 75
DRAWING NO. 52



SIDE ELEVATION

* ANTICIPATED REMOVAL OF UNSUITABLE SOILS TO BOTTOM OF ORGANIC CLAY OR PEAT SOILS. SEE SOIL BORINGS.

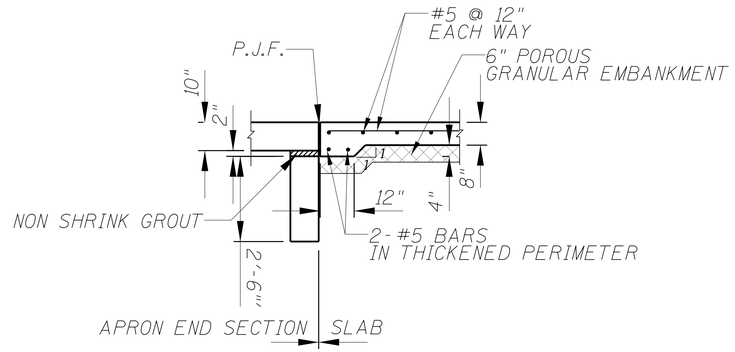


TOP AND BOTTOM ELEVATION

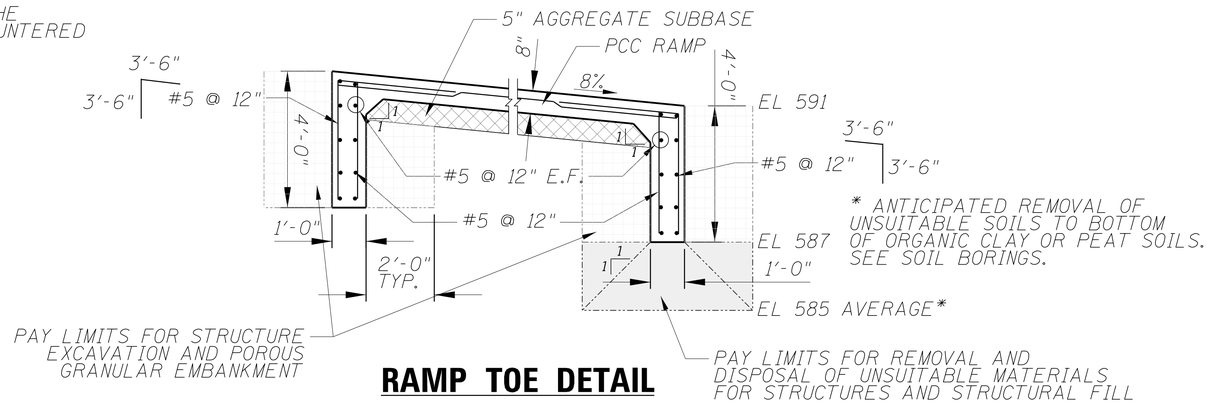
ORDER OF OPERATION

- EXCAVATE BASIN
- DIG TEST PIT AT BOTTOM OF STAIR FOOTING LOCATION TO DETERMINE IF UNSUITABLE SOILS WILL BE ENCOUNTERED AND TO WHAT DEPTH. COST OF TEST PIT IS INCLUDED IN "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS.
- IF NO UNSUITABLE SOIL ENCOUNTERED, NO SOIL RETENTION SYSTEM IS REQUIRED.
- OTHERWISE INSTALL TEMPORARY SOIL RETENTION SYSTEM.
- PAY LIMIT TO BE ADJUSTED TO THE BOTTOM OF UNSUITABLE SOILS ENCOUNTERED IN THE FIELD AS DETERMINED BY A GEOTECHNICAL ENGINEER.

TEMPORARY SOIL RETENTION SYSTEM



CULVERT PAD DETAIL



RAMP TOE DETAIL

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(847) 823-0500

CLIENT:

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OAK LAWN, ILLINOIS 60453

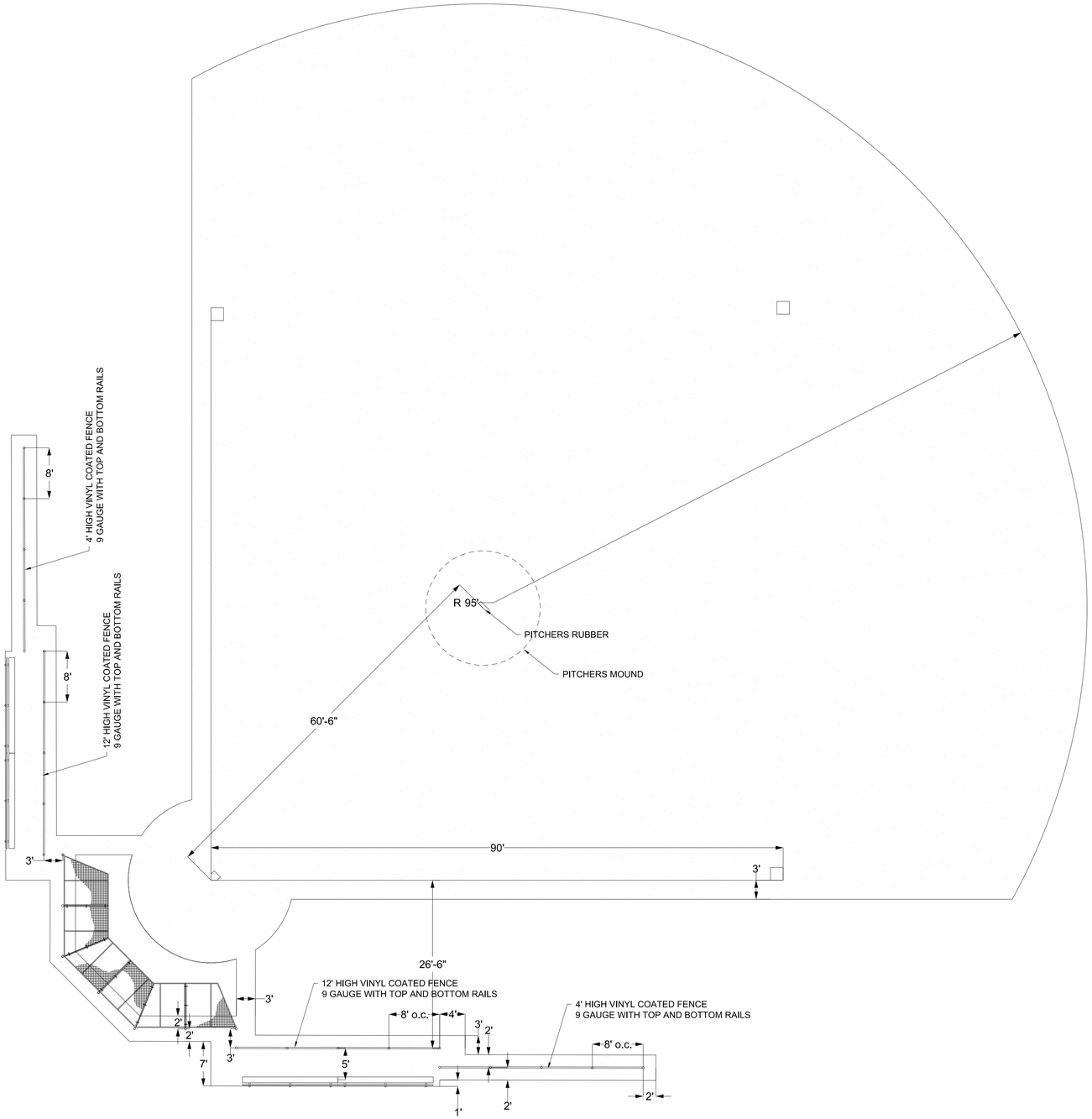
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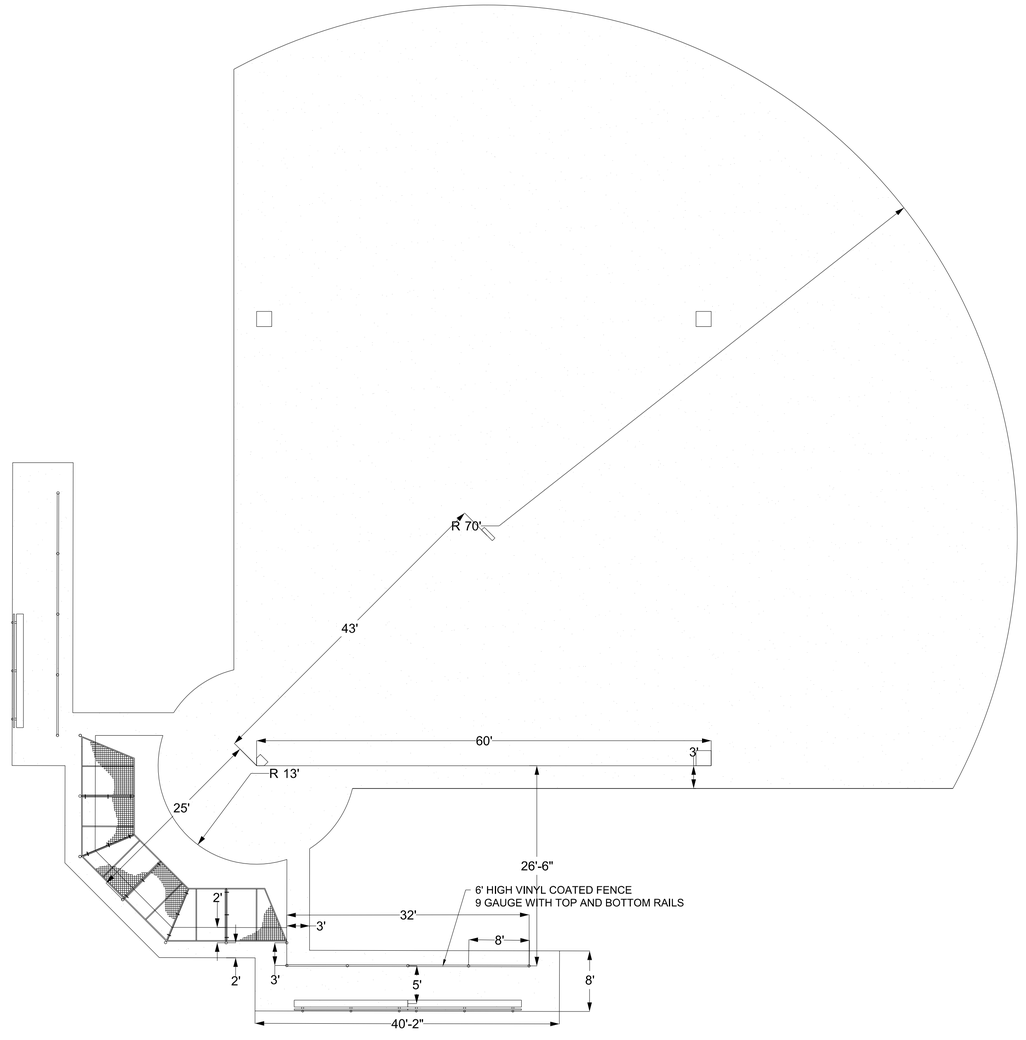
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DWN.	MAK
CHKD.	LMF PLB
SCALE:	10'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
STAIRS AND RAMP GRADING PLANS AND DETAILS

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 53 OF 75
DRAWING NO. 53



SOUTHWEST BALL FIELD
PLAN VIEW



NORTHWEST SOFTBALL FIELD
PLAN VIEW

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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

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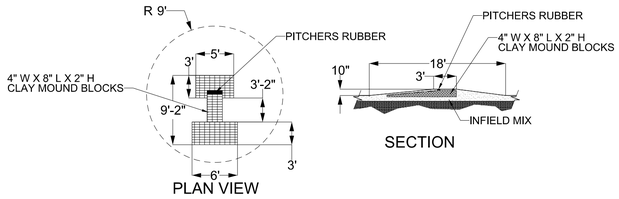
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DWN.	MAK
CHKD.	LMF
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PLOT DATE:	7/28/2025
CAD USER:	mkoonce
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TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
BALL FIELD/LANDSCAPING PLAN, NOTES & DETAILS

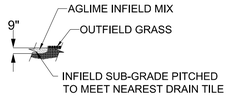
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DATE: 7/28/2025
SHEET 54 OF 75
DRAWING NO.
54



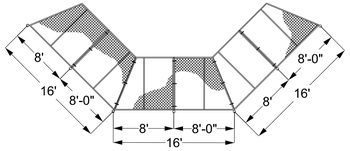
PLAN VIEW

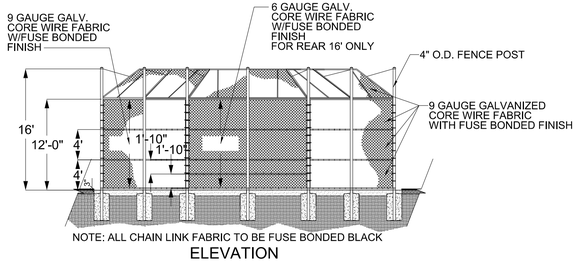
SECTION

PITCHERS MOUND DETAIL
(BY OTHERS)



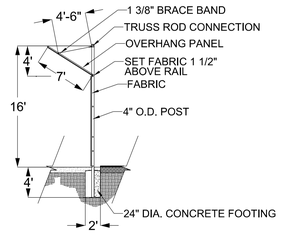
TYP. INFIELD SECTION





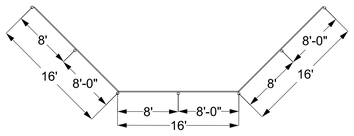
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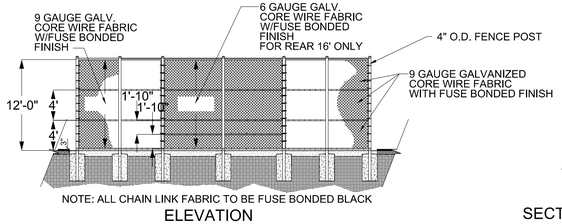
ELEVATION



SECTION OF REAR PANEL

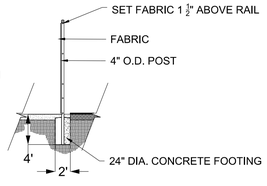
NORTHWEST SOFTBALL FIELD
& SOUTHWEST BALL FIELD
BACKSTOP DETAILS





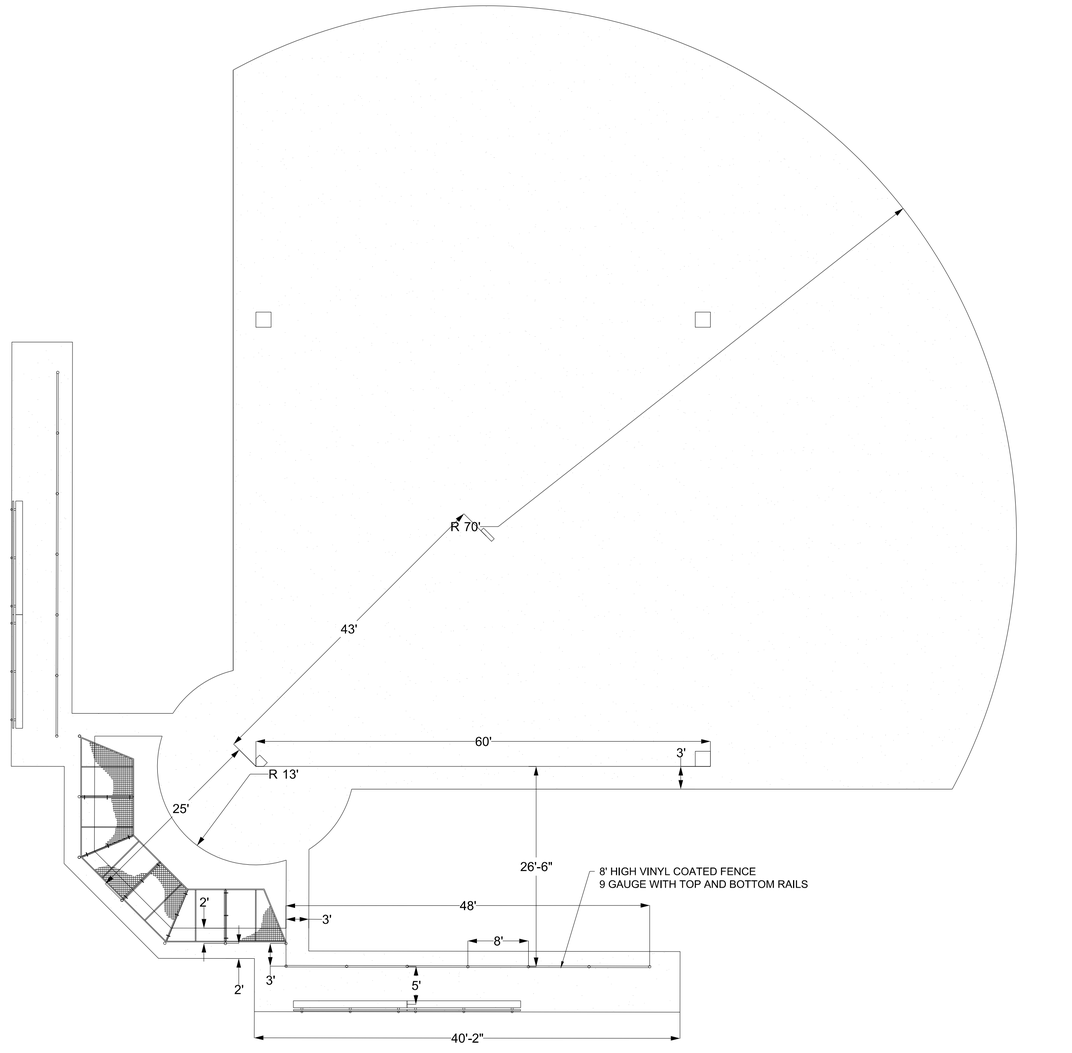
NOTE: ALL CHAIN LINK FABRIC TO BE FUSE BONDED BLACK

ELEVATION



SECTION OF REAR PANEL

SOUTHEAST BALL FIELD
BACKSTOP DETAILS



SOUTHEAST BALL FIELD
PLAN VIEW

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CLIENT:

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OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME: N:\OakLawn\230445\Civil\LSP_230445_01.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	10'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
BALL FIELD/LANDSCAPING PLAN, NOTES & DETAILS

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	55 OF 75
DRAWING NO.	55

CHSD 218 ADMIN. BUILDING

108th ST

KILPATRICK AVE

KENTON AV

109th ST

25+00

20+00

STABILIZED CONTRACTION ENTRANCE (EXACT LOCATION TBD IN FIELD)

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 2200 SY

TREE PROTECTION, TYP.

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 1400 SY

INLET FILTER, TYP.

SEEDING, 20 SY

SEEDING, 18 SY

SEEDING, 17 SY

SEEDING, 13 SY

SEEDING, 13 SY

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 826 SY

TOPSOIL PLACEMENT 12", SEEDING, 28841 SY

CULVERT INLET PROTECTION

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 180 SY

6' TEMPORARY CONSTRUCTION FENCE, 2480 LF

PERIMETER EROSION BARRIER, 2480 LF

TREE PROTECTION, TYP.

INLET PROTECTION, TYP.

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 180 SY

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 442 SY

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 453 SY

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 451 SY

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 1421 SY

TREE PROTECTION, TYP.

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 1403 SY

TOPSOIL PLACEMENT 12", SEEDING AND EROSION CONTROL BALNKET, 180 SY

SEE SHEET 57 & 58 FOR EROSION CONTROL ITEMS WITHIN ROW

LEGEND

- 4" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, BALL FIELD SEED MIX
- CULVERT INLET PROTECTION
- INLET FILTER
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- TREE ROOT PRUNING
- PERIMETER EROSION BARRIER
- BASEBALL INFILED MIX, (SEE SPECIFICATIONS)

N

40 0 40

SCALE IN FEET

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

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME N:\OakLawn\230445\Civil\ECP_PIE_230445_01.Sht

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DWN.	MAK	
CHKD.	LMF	
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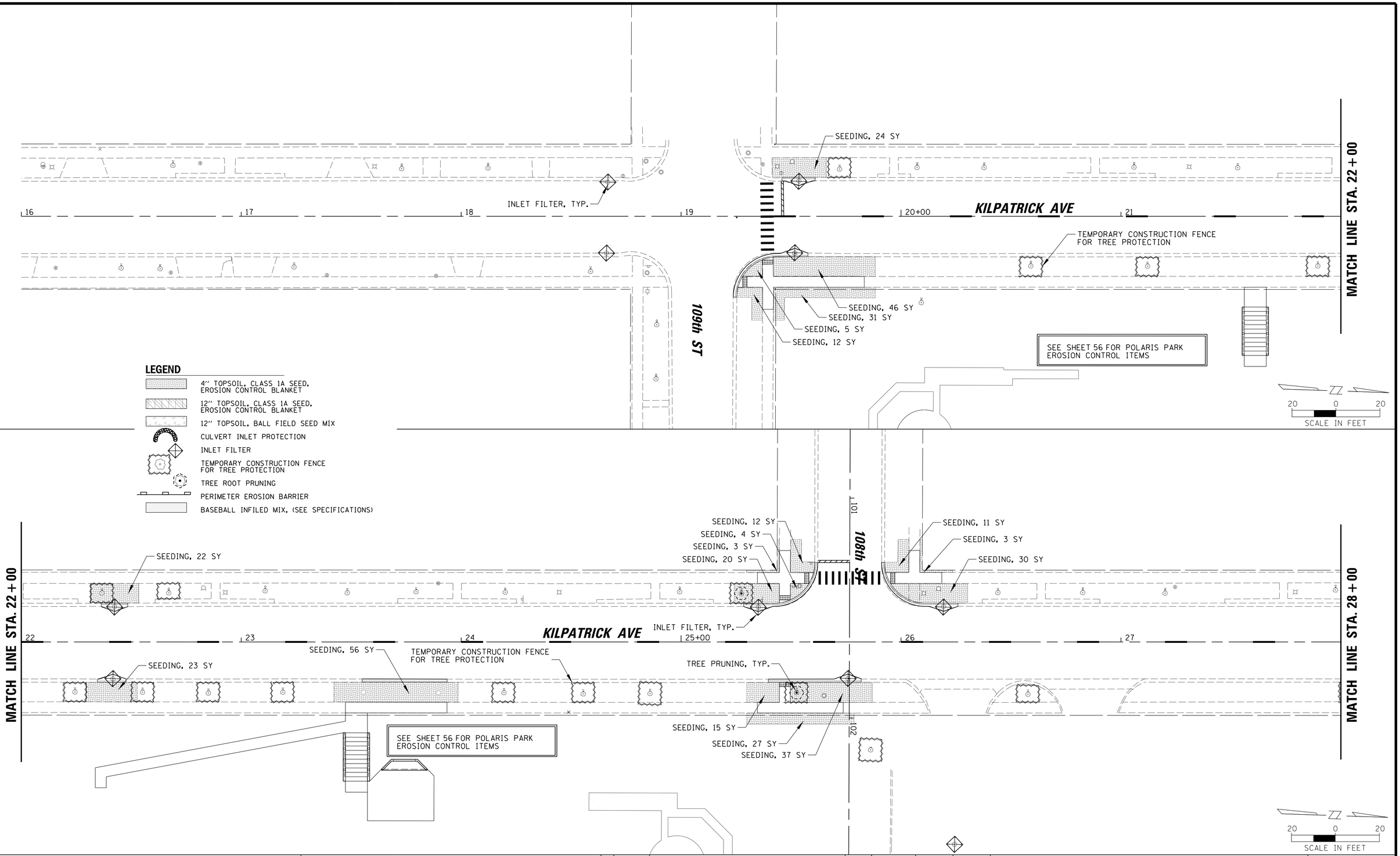
TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT

SOIL EROSION/SEDIMENT CONTROL PLAN

POLARIS PARK

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	56 OF 75
DRAWING NO.	56



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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

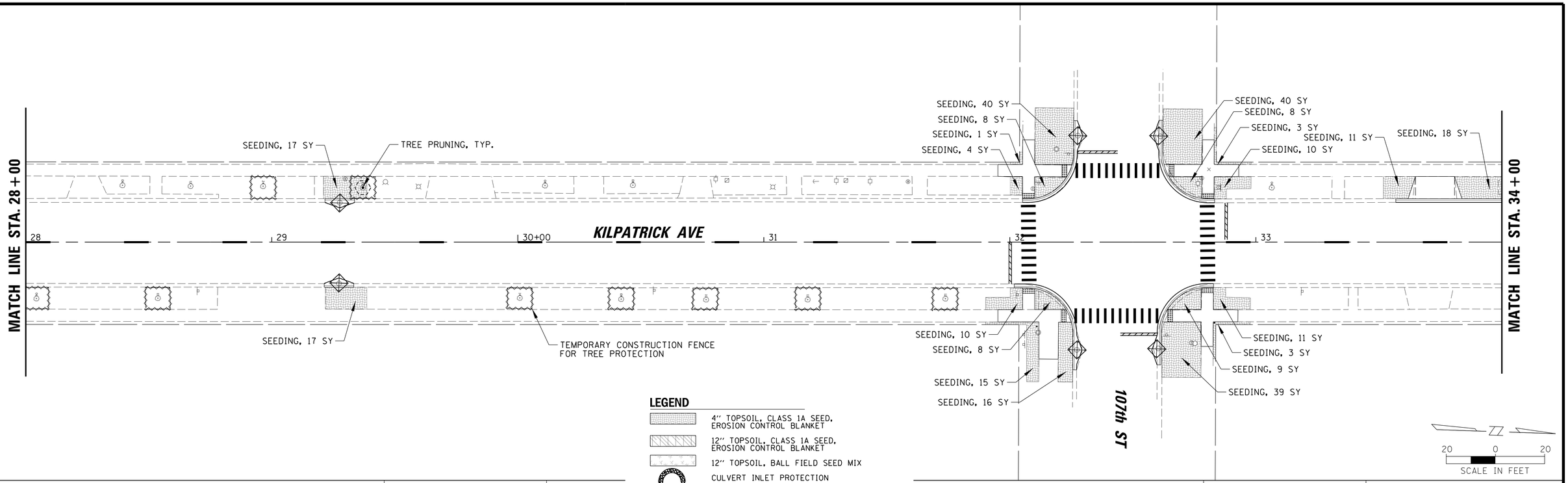
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CHKD.	LMF
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CAD USER:	mkoonce
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TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
SOIL EROSION/SEDIMENT CONTROL PLAN
KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	57 OF 75
DRAWING NO.	57



LEGEND

- 4" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, BALL FIELD SEED MIX
- CULVERT INLET PROTECTION
- INLET FILTER
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- TREE ROOT PRUNING
- PERIMETER EROSION BARRIER
- BASEBALL INFILED MIX, (SEE SPECIFICATIONS)

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

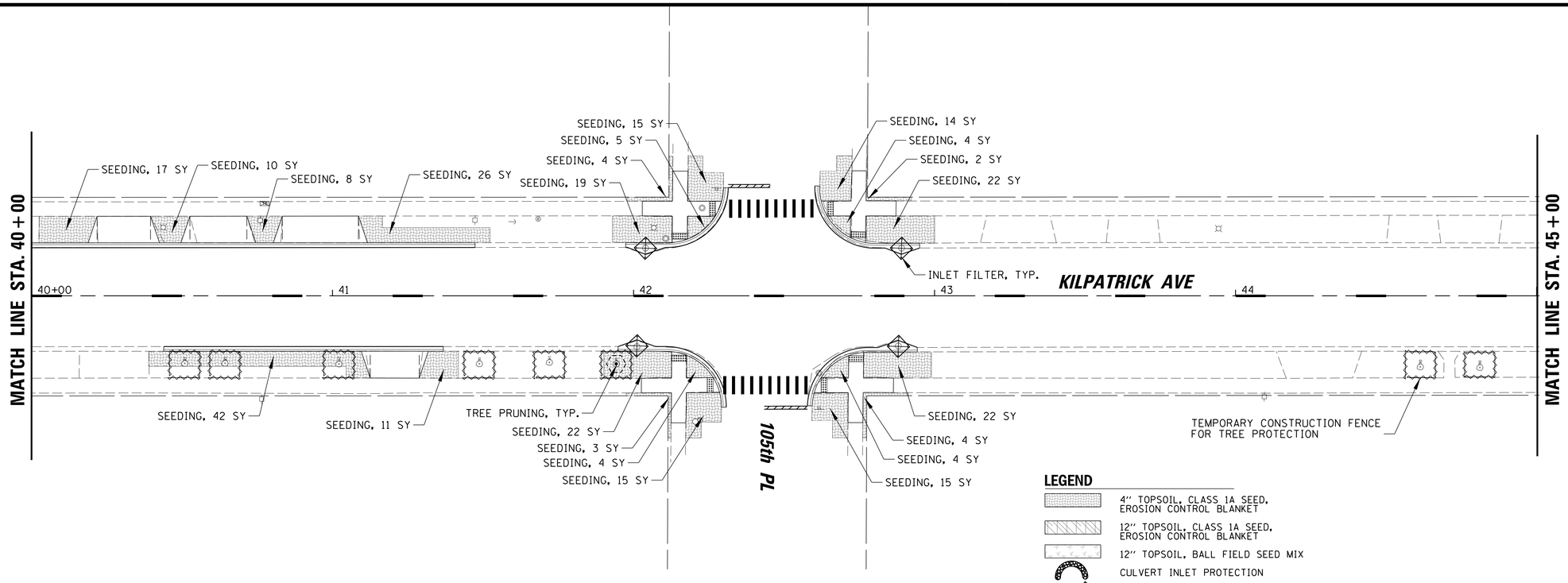
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DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
SOIL EROSION/SEDIMENT CONTROL PLAN
KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	58 OF 75
DRAWING NO.	58



LEGEND

- 4" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, BALL FIELD SEED MIX
- CULVERT INLET PROTECTION
- INLET FILTER
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- TREE ROOT PRUNING
- PERIMETER EROSION BARRIER
- BASEBALL INFILED MIX, (SEE SPECIFICATIONS)

20 0 20
SCALE IN FEET

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

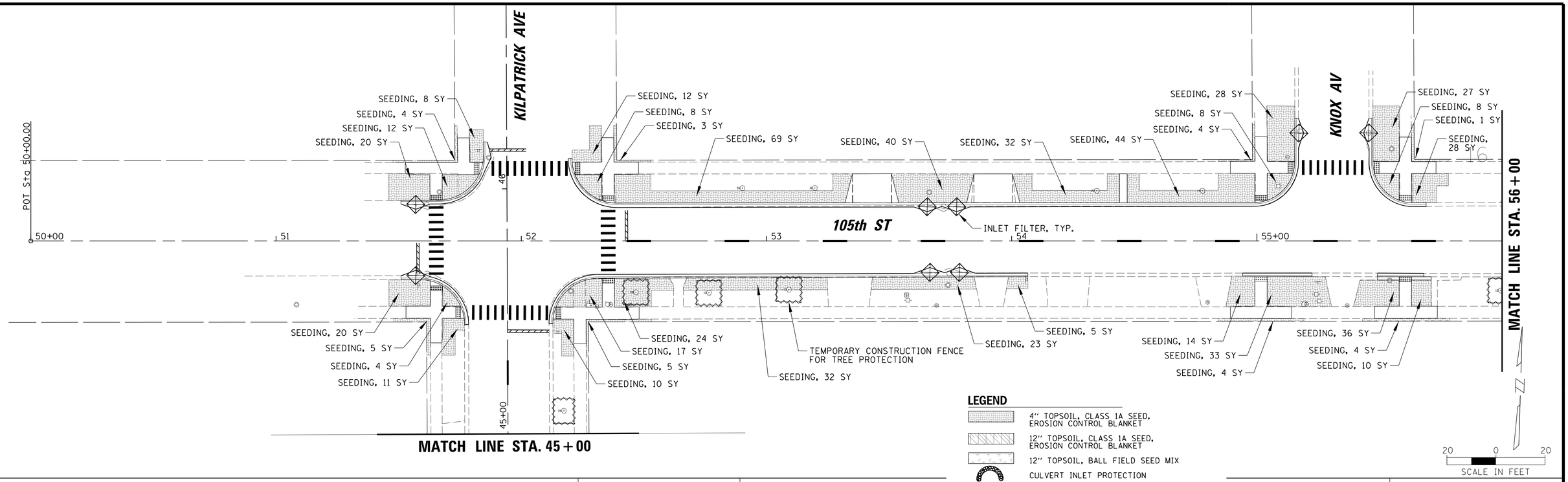
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CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
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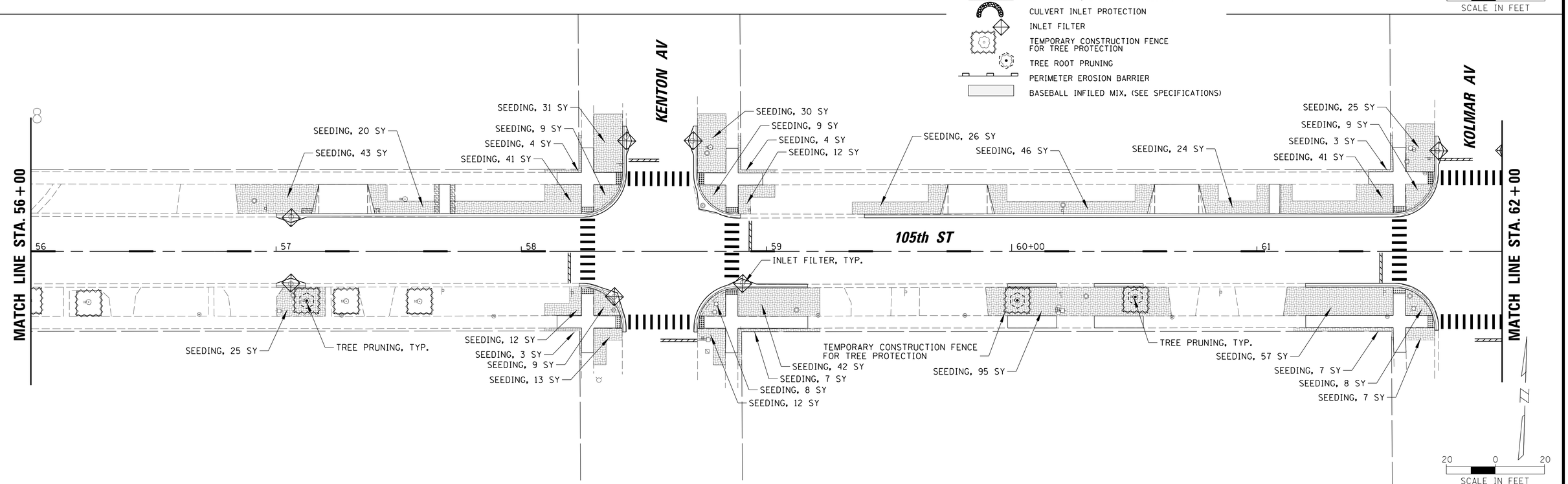
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CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
SOIL EROSION/SEDIMENT CONTROL PLAN
KILPATRICK AVENUE

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	59 OF 75
DRAWING NO.	59



LEGEND

- 4" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, BALL FIELD SEED MIX
- CULVERT INLET PROTECTION
- INLET FILTER
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- TREE ROOT PRUNING
- PERIMETER EROSION BARRIER
- BASEBALL INFILED MIX, (SEE SPECIFICATIONS)



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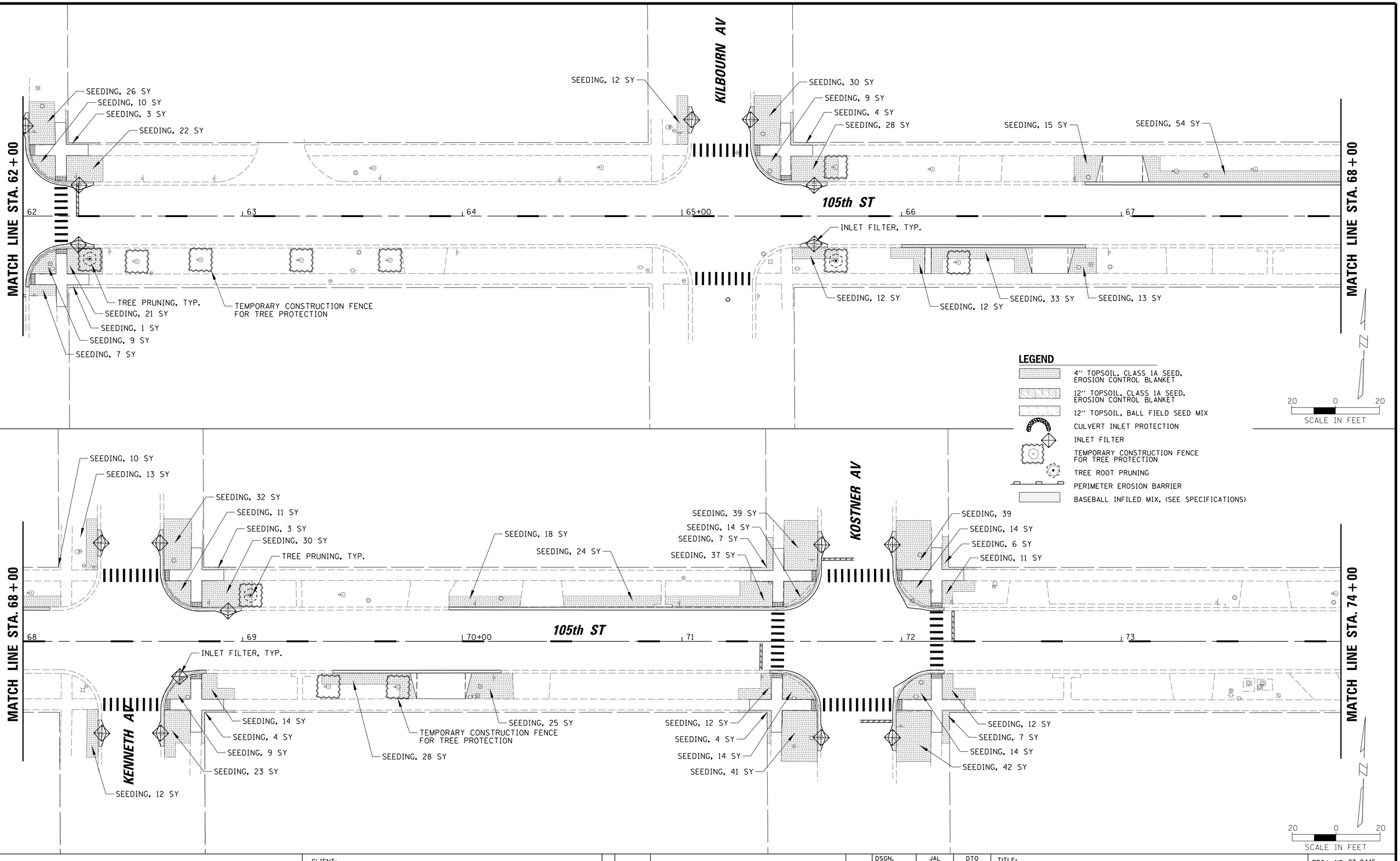
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VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.
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DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
SOIL EROSION/SEDIMENT CONTROL PLAN
105TH STREET

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 60 OF 75
DRAWING NO.
60



LEGEND

- 4" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, BALL FIELD SEED MIX
- CULVERT INLET PROTECTION
- INLET FILTER
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- TREE ROOT PRUNING
- PERIMETER EROSION BARRIER
- BASEBALL INFILED MIX, (SEE SPECIFICATIONS)

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Rosemont, Illinois 60018
(847) 823-0500

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

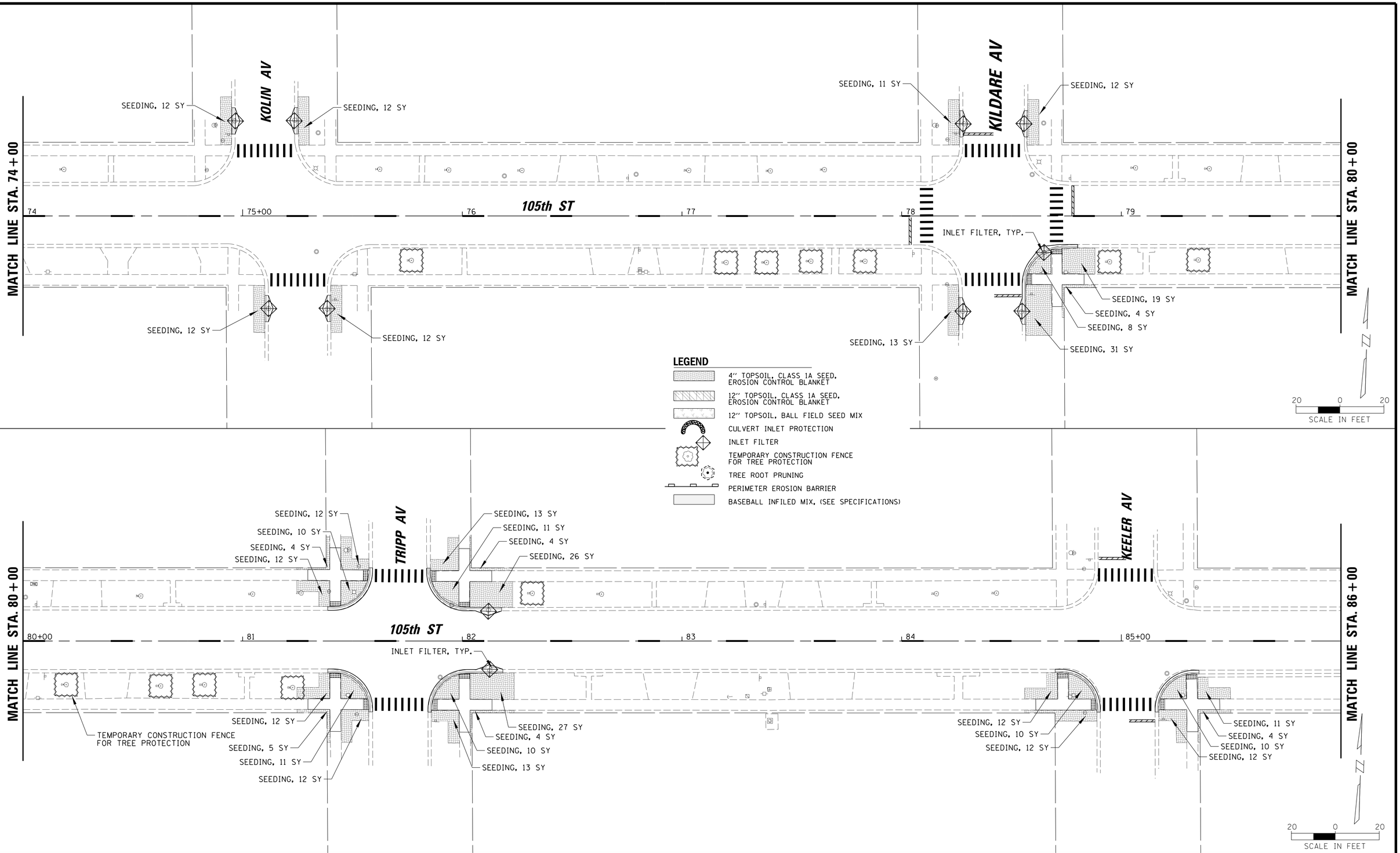
NO.	DATE	NATURE OF REVISION	CHKD.

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
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TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
SOIL EROSION/SEDIMENT CONTROL PLAN
105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	61 OF 75
DRAWING NO.	61



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(847) 823-0500

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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

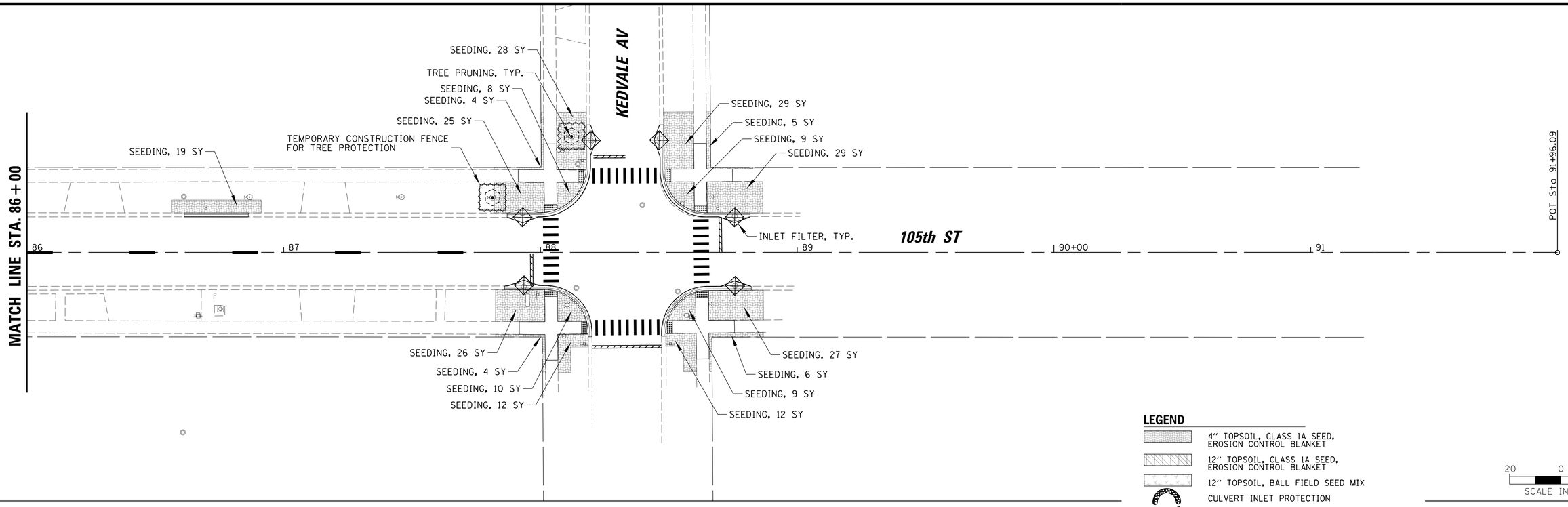
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
SOIL EROSION/SEDIMENT CONTROL PLAN
105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	62 OF 75
DRAWING NO.	62



LEGEND

- 4" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, CLASS 1A SEED, EROSION CONTROL BLANKET
- 12" TOPSOIL, BALL FIELD SEED MIX
- CULVERT INLET PROTECTION
- INLET FILTER
- TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
- TREE ROOT PRUNING
- PERIMETER EROSION BARRIER
- BASEBALL INFILED MIX, (SEE SPECIFICATIONS)

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Rosemont, Illinois 60018
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CLIENT:

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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

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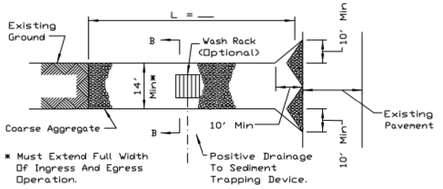
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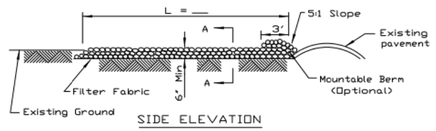
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
SOIL EROSION/SEDIMENT CONTROL PLAN
105TH STREET

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	63 OF 75
DRAWING NO.	63

STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW

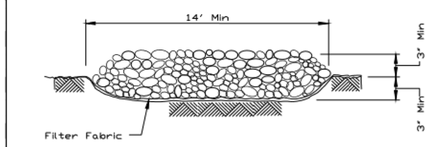


SIDE ELEVATION

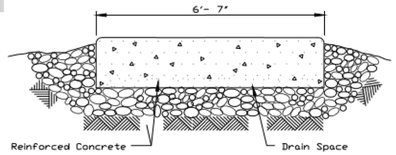
NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE		STANDARD DWG. NO.
Project	NRCS Natural Resources Conservation Service	IL-630
Designed ____ Date ____		SHEET 1 OF 2
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

STABILIZED CONSTRUCTION ENTRANCE PLAN



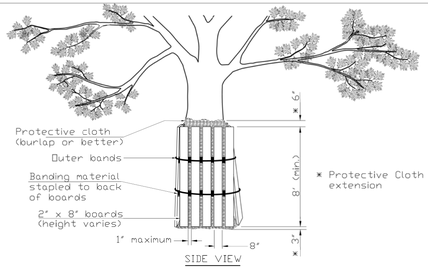
SECTION A-A



SECTION B-B

REFERENCE		STANDARD DWG. NO.
Project	NRCS Natural Resources Conservation Service	IL-630
Designed ____ Date ____		SHEET 2 OF 2
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

TREE TRUNK PROTECTION

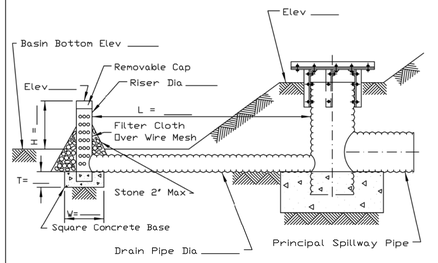


Notes

1. The contractor shall provide 2" x 8" boards banded continuously around each trunk with a protective cloth (such as burlap or better) placed between the boards and the tree to prevent scarring of the tree being protected. The height of the boards is variable due to height of tree being protected. Trees to be protected shall be shown in the plans or designated by the Professional Forester or Certified Arborist.
2. The protective cloth shall extend past both the top and bottom of the boards as shown in the detail. Width of wrap material varies. For fabric that does not meet the required height, fabric shall overlap a minimum of 6" and shall be spliced to avoid slippage.

REFERENCE		STANDARD DWG. NO.
Project		IUM-690-C
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 09-14-2017
Approved ____ Date ____		

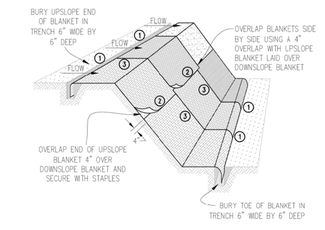
SEDIMENT BASIN DEWATERING DEVICE

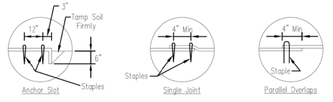


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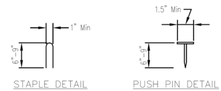
NOTES:
1. Slotted inlets shall be fabricated from corrugated metal or smooth steel.
2. Slots shall be cut cleanly and deburred. Ends of slots may be round or square.
3. Gravel filter, if used, shall be pit run sand and gravel with a maximum particle diameter of 2".
4. Fabricated or standard elbow; fabricated or standard tee with the pipe or plug in upstream end; or standard tee with one end embedded in concrete.
5. Thirty 1" diameter holes per foot of riser may be substituted for the 1"x 4" slots for 6" diameter risers.
6. Drain pipe shall be the same material and gauge as the principle spillway pipe.
7. Slot spacing and size shall be as shown on standard drawing IL-580.
8. Coupling bands shall be as shown on standard drawing IL-580.

REFERENCE		STANDARD DWG. NO.
Project	NRCS Natural Resources Conservation Service	IL-615
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 9-22-93
Approved ____ Date ____		





DETAIL 1 DETAIL 2 DETAIL 3



STAPLE DETAIL PUSH PIN DETAIL

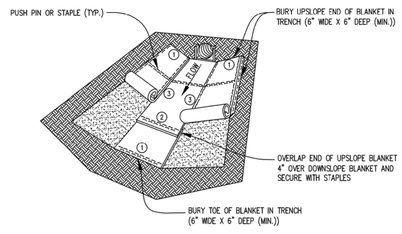
NOTES:
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 staples with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected 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.

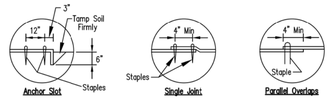
No.	Revision	Date
1	10% Review	10/5/11

EROSION CONTROL BLANKET INSTALLATION DETAILS

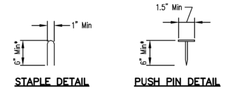
Designed ____ Date ____
Drawn EL JOHNSON 11/08/11
Checked ____
Approved ____

EROSION CONTROL BLANKET - TURF REINFORCEMENT MAT (TRM)





DETAIL 1 DETAIL 2 DETAIL 3

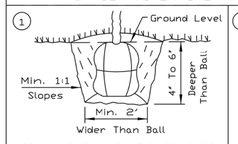


STAPLE DETAIL PUSH PIN DETAIL

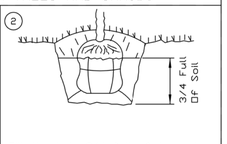
*Note:
1. For sandy soil conditions, staple or push pin shall be a minimum 8 inches.

REFERENCE		STANDARD DWG. NO.
Project		IUM-531
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 02-22-11
Approved ____ Date ____		

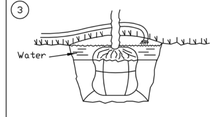
PLANTING PROCEDURE FOR BALLED AND BURLAPPED OR CONTAINER GROWN TREES AND SHRUBS



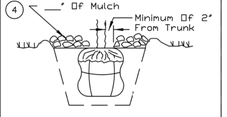
Add enough tamped soil in the bottom of the hole to set the ball at or slightly higher than the original planting depth.



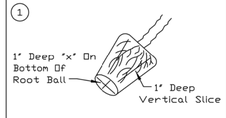
Fill the hole 3/4 full of tamped soil then remove all exposed burlap and twine using a sharp utility knife.



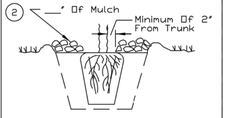
Fill the remaining 1/4 of the hole with water to remove air pockets and settle the soil. Finish filling the hole with soil after all the water has drained.



Unless soil is poorly drained, mound soil around edges of hole 4" to 6" high. Add a minimum of 4" of approved mulching material. Keep mulch about 2" from tree trunk.



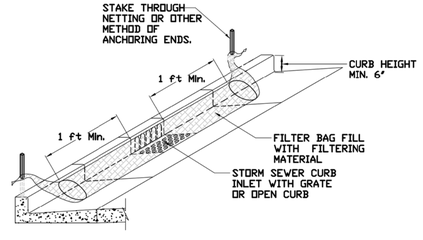
Cut the circling roots of container grown trees with a sharp utility knife. Make 4 vertical slices on the sides and an "x" on the bottom. All slices should be 1-inch in depth.



Plant container-grown trees using same steps as for B & B trees except that the plastic container should be completely removed.

REFERENCE		STANDARD DWG. NO.
Project	NRCS Natural Resources Conservation Service	IL-685
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 8-22-94
Approved ____ Date ____		

INLET PROTECTION - PAVED AREAS CURB PROTECTION



REFERENCE		STANDARD DWG. NO.
Project		IUM-561C
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 01-11-11
Approved ____ Date ____		

CHRISTOPHER B. BURKE ENGINEERING, LTD.
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(847) 823-0500

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME N:\OakLawn\230445\Civil\ECP_DET_230445_01.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	N.T.S.
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

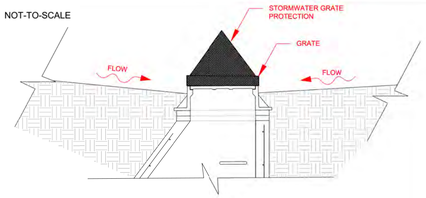
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CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
SOIL EROSION / SEDIMENT CONTROL NOTES AND DETAILS

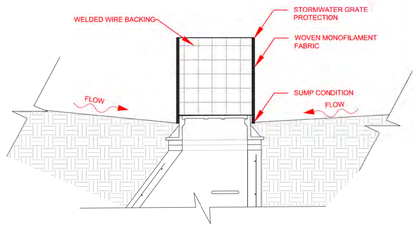
PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	64 OF 75
DRAWING NO.	64

MANUFACTURED ABOVE GRADE INLET PROTECTION

NOT-TO-SCALE



SECTION



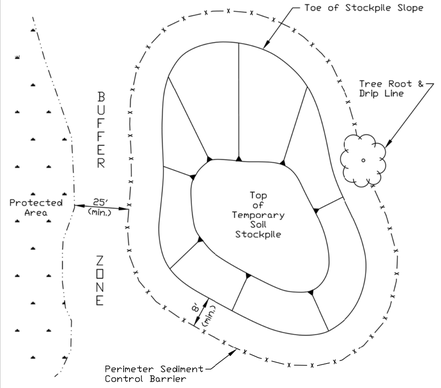
SECTION

NOTES:
1. A maintenance schedule must maintain a sediment accumulation of less than 50% of the height of the inlet protection.
2. Device should be supported.
3. Fabric type should be IUM 592 Standard Table 1 Class 4

REFERENCE
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

STANDARD DWG. NO.
IUM-531
SHEET 1 OF 1
DATE 03-27-17

TEMPORARY SOIL STOCKPILE DETAIL

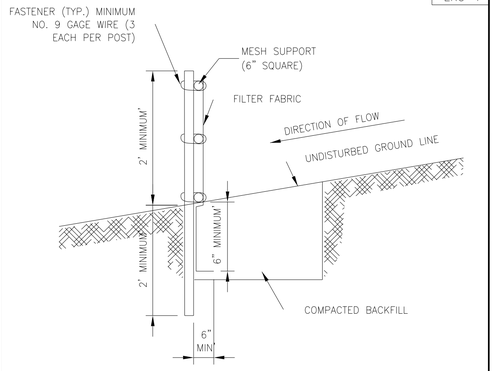


NOTES:
1. Stockpile slopes should be based on angle of repose of the soil material to avoid potential sloughing of the slope.
2. Soil stockpile to be stabilized in accordance with practical standards.
3. Do not locate stockpile within overland drainage flow path, designated floodways, drip line or over the root crown of adjacent trees.
4. Provisions for sediment control practices may be required along haul roads and entrance/exit locations for access the soil stockpile that can create flow path for stormwater runoff.
5. Installation of benches, terraces, or slope interrupters should be considered.
6. Avoid building soil stockpiles on impervious surfaces.
7. Linear sediment trap surrounding the stockpile base may be used to control sediment.

REFERENCE
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

STANDARD DWG. NO.
IUM-627
SHEET 1 OF 1
DATE JANUARY 2017

ERO-1



NO SCALE

NOTES:
1. TOP AND BOTTOM WIRES OF MESH SUPPORT SHALL BE MINIMUM GAGE NO. 9
2. INTERMEDIATE WIRES OF MESH SUPPORTS SHALL BE MINIMUM GAGE NO. 11
3. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING.
4. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF ILLINOIS URBAN MANUAL MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS T WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
5. FENCE POST SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM SECTIONAL AREA OF 3.0 SQUARE INCHES.
6. THE MESH SUPPORT MAY BE OMITTED IF A MAXIMUM OF 5 FEET IS USED FOR POST SPACING, OTHERWISE, POST SPACING MAY BE UP TO TEN FEET.

VILLAGE OF OAK LAWN
STANDARD DETAIL

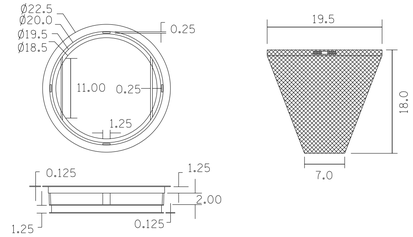
SILT FENCE
DATE: DEC 2009

THE VILLAGE OF OAK LAWN

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ERO-2

TYPICAL ROUND INLET PROTECTOR



NOTES:
FRAME: Top ring constructed from 1 1/4" x 1 1/4" x 1/8" angle. Base ring fabricated from 1 1/2" x 1/2" x 1/8" channel. Handles and suspension brackets constructed from 1/4" x 1/4" flat. All steel conforming to ASTM-A36.

REPLACEABLE BAG: Constructed from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Connected to base ring with stainless steel strap and lock.

INLET FILTERS

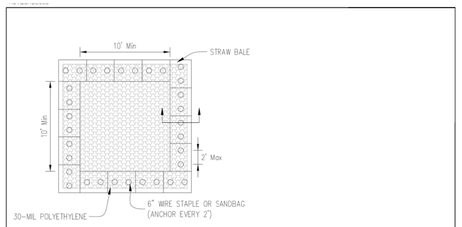
NOT TO SCALE

VILLAGE OF OAK LAWN
STANDARD DETAIL

INLET FILTER BASKET
DATE: DEC 2009

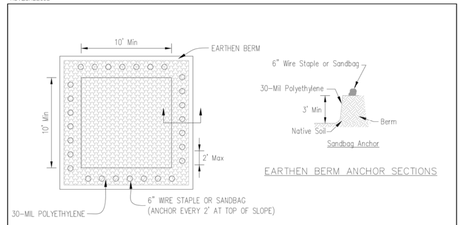
THE VILLAGE OF OAK LAWN

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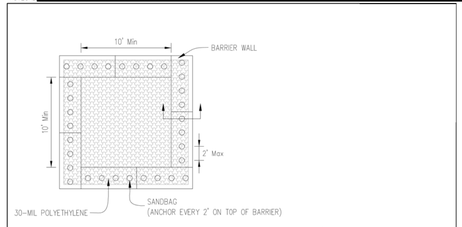
NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
3. Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.

TEMPORARY CONCRETE WASHOUT FACILITY – STRAW BALE



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.

TEMPORARY CONCRETE WASHOUT FACILITY – EARTHEN TYPE



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 ful.

TEMPORARY CONCRETE WASHOUT FACILITY – BARRIER WALL

CONCRETE WASHOUT NOTES:

1. **EXACT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.**
2. **CONCRETE WASHOUTS AND TEMPORARY SOIL STOCKPILES SHALL NOT BE LOCATED IN THE FLOODPLAIN, FLOODWAY, WETLAND, OR BUFFER.**
3. **CONCRETE WASHOUTS SHALL BE INCIDENTAL TO THE COST OF THE PROJECT.**
4. **CONCRETE WASHOUTS SHALL BE MAINTAINED THROUGH THE DURATION OF THE CONTRACT.**

CHRISTOPHER B. BURKE ENGINEERING, LTD.
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9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

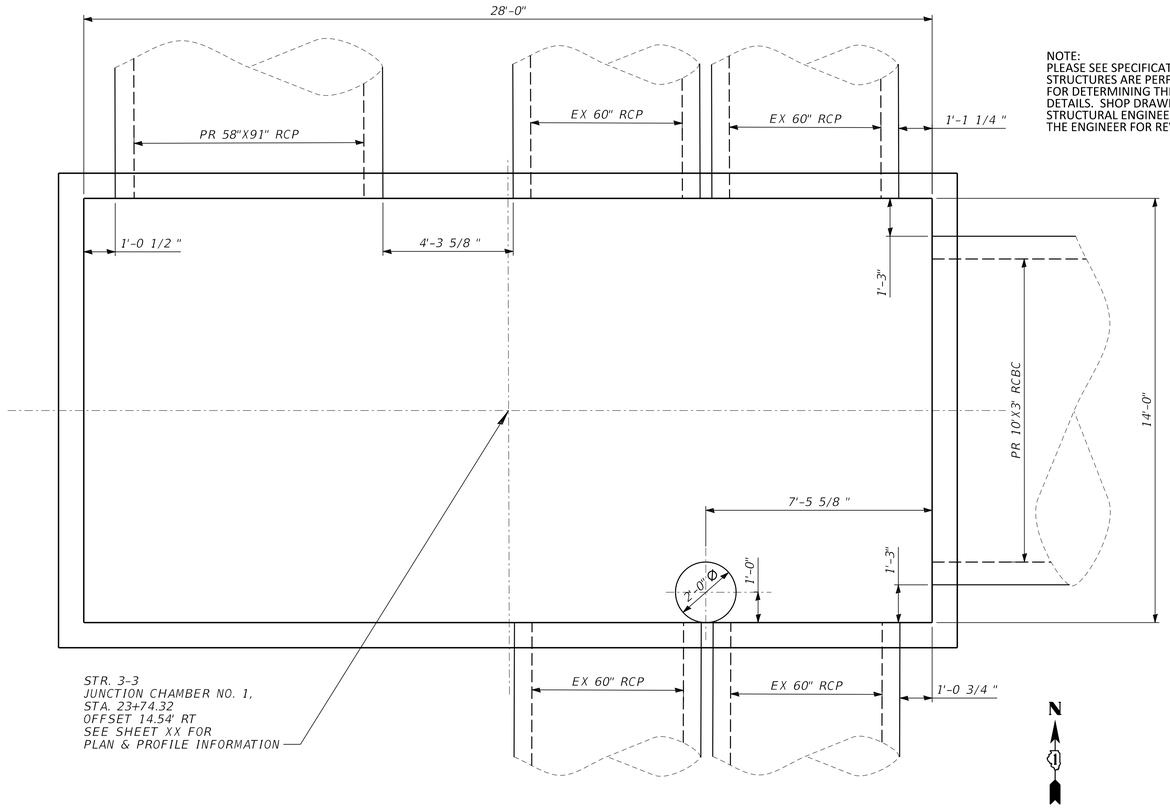
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME N:\OakLawn\230445\Civil\ECP_DET_230445_01.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF
SCALE:	
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

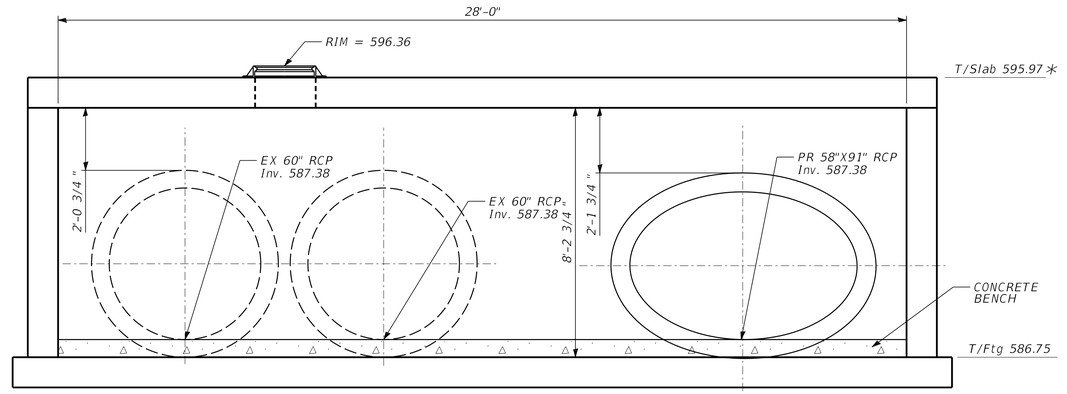
TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
SOIL EROSION / SEDIMENT CONTROL NOTES AND DETAILS

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 65 OF 75
DRAWING NO. 65



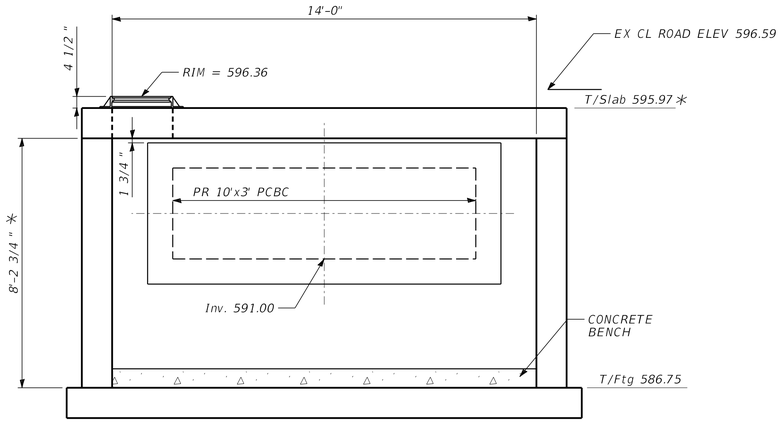
JUNCTION CHAMBER NO. 1 PLAN VIEW

NOTE:
PLEASE SEE SPECIFICATION FOR JUNCTION CHAMBER NO. 1 AND NO. 2 THESE STRUCTURES ARE PERFORMANCE BASED SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE THICKNESSES OF ALL SLAB AND WALLS AND REINFORCEMENT DETAILS. SHOP DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

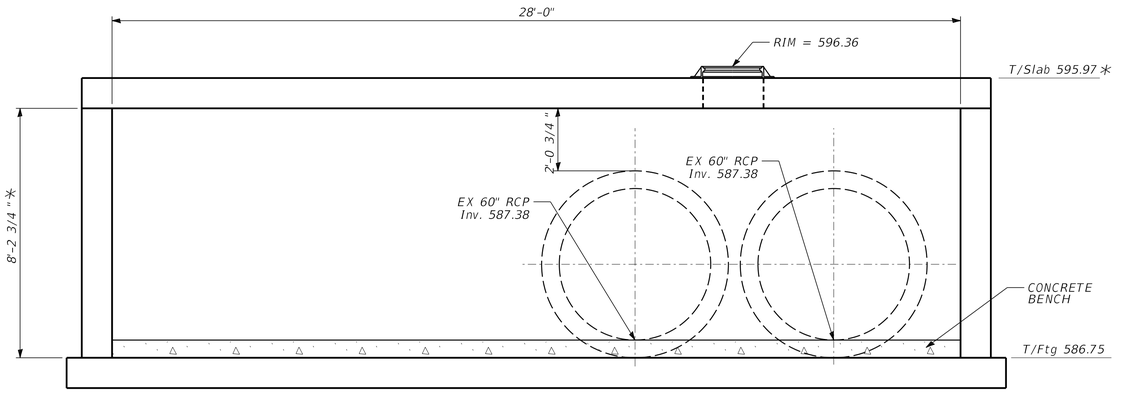


NORTH ELEVATION

* TOP OF SLAB ELEVATIONS AND INSIDE HEIGHT MAY BE ADJUSTED BY THE CONTRACTOR.



EAST ELEVATION



SOUTH ELEVATION

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

CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

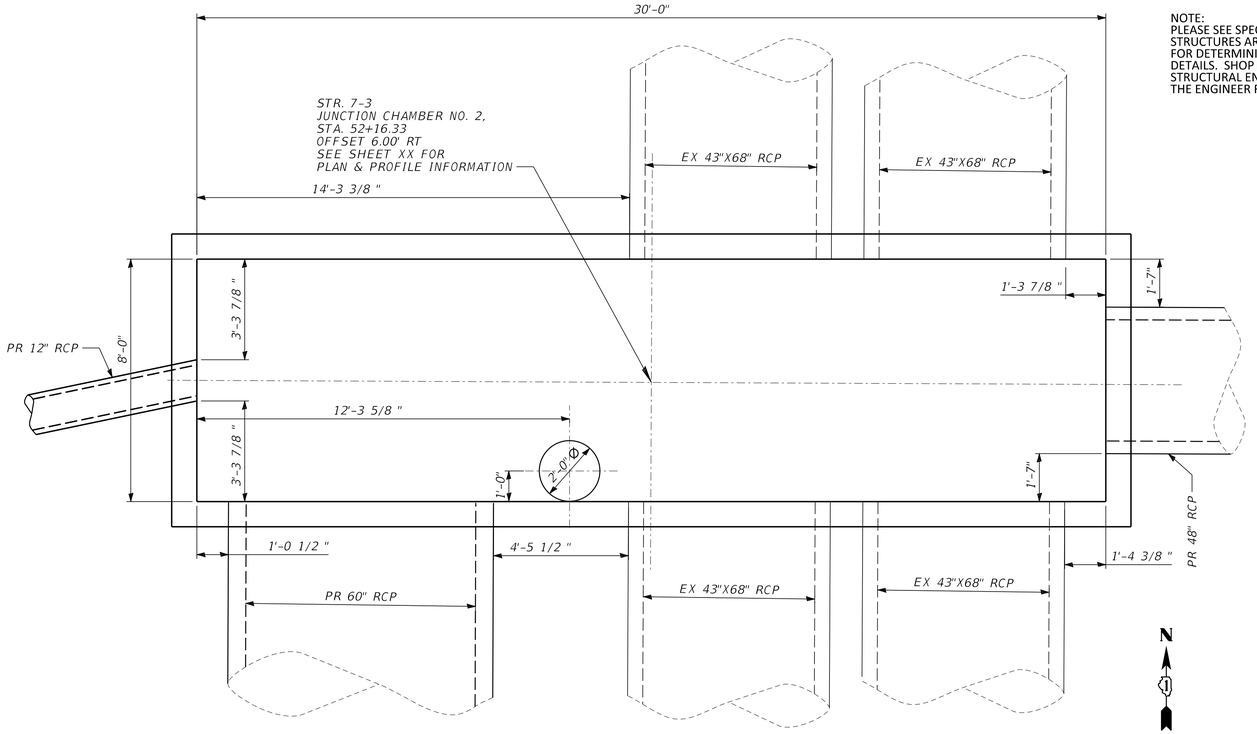
NO.	DATE	NATURE OF REVISION	CHKD.

FILE NAME: N:\OakLawn\230445\Civil\JCD_230445_01.sht

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF JMB
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

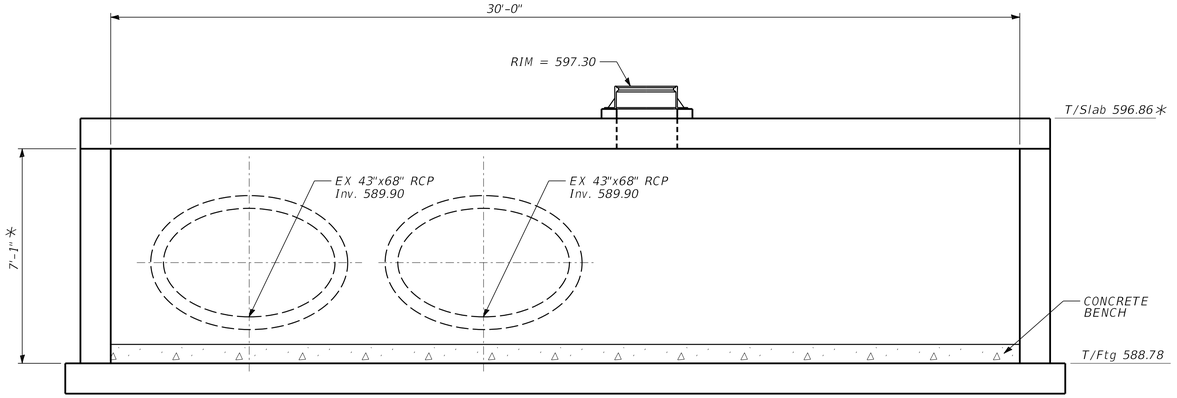
TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
JUNCTION CHAMBER & HEADWALL PLAN & ELEV.

PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	66 OF 75
DRAWING NO.	66



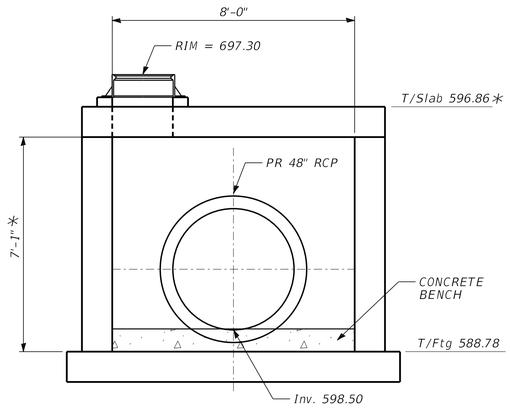
JUNCTION CHAMBER NO. 2 PLAN VIEW

NOTE:
PLEASE SEE SPECIFICATION FOR JUNCTION CHAMBER NO. 1 AND NO. 2. THESE STRUCTURES ARE PERFORMANCE BASED SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE THICKNESSES OF ALL SLAB AND WALLS AND REINFORCEMENT DETAILS. SHOP DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

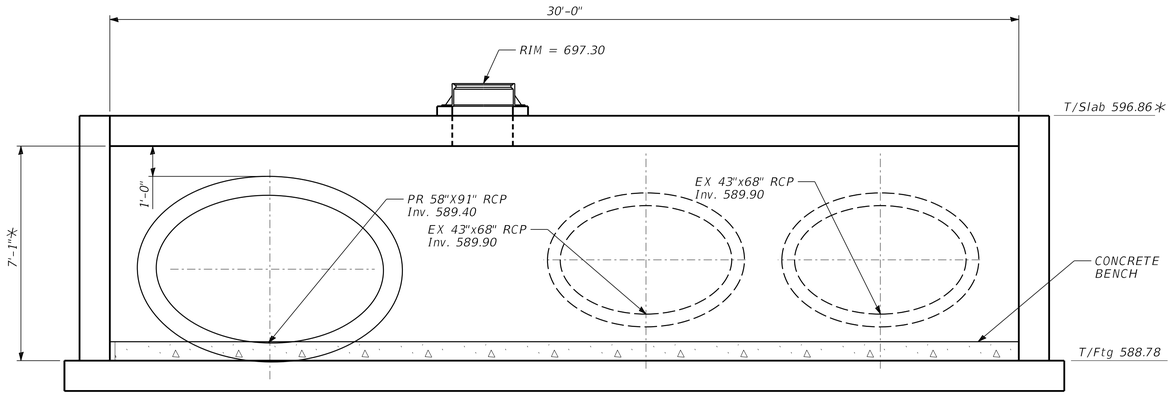


NORTH ELEVATION

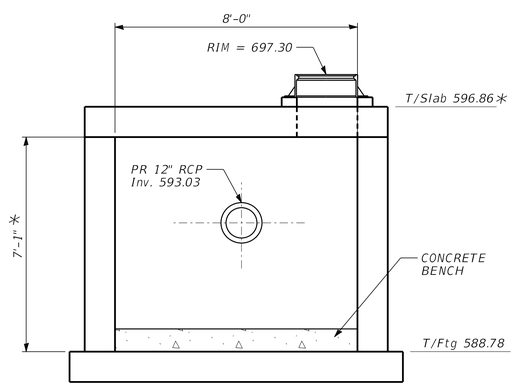
* TOP OF SLAB ELEVATIONS AND INSIDE HEIGHT MAY BE ADJUSTED BY THE CONTRACTOR.



EAST ELEVATION



SOUTH ELEVATION



WEST ELEVATION

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

CLIENT:

VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

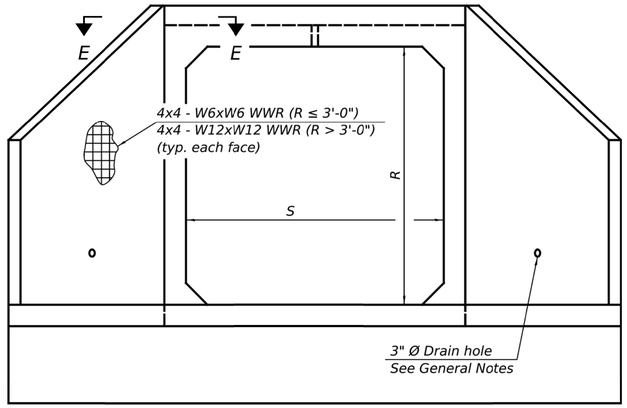
NO.	DATE	NATURE OF REVISION	CHKD.

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CHKD.	LMF JMB
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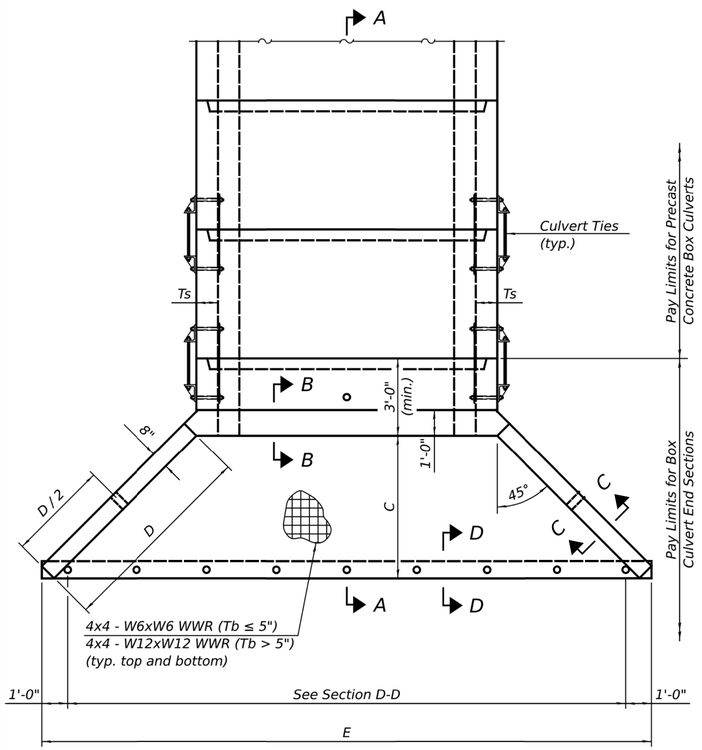
TITLE:

CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT JUNCTION CHAMBER & HEADWALL PLAN & ELEV.

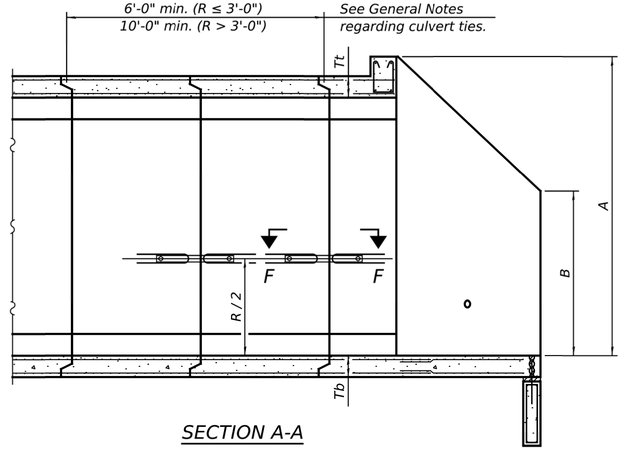
PROJ. NO.	23-0445
DATE:	7/28/2025
SHEET	67 OF 75
DRAWING NO.	67



END VIEW



PLAN



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be ncreased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than ½" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 5/8"	4'-1"	10'-4 5/8"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 7/8"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 5/8"	5'-6"	12-4 5/8"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 7/8"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4½"	2'-2½"	2'-11 3/8"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8½"	3'-10"	11'-2 3/8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4½"	2'-8½"	3'-11 3/8"	5'-7"	13'-8 3/8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8½"	5'-3"	13'-2 3/8"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4½"	3'-2½"	4'-11 3/8"	7'-0"	15'-8 1/8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 5/8"	6'-8"	15'-2½"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7¼"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 3/8	5'-7"	14'-10 1/8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7¼"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	16'-10 1/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9¼"	6'-9"	16'-5 5/8"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	18'-10 1/8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9¼"	8'-2"	18'-5 5/8"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 5/8"	4'-1"	13'-10 5/8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	16'-0 1/8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 5/8"	5'-6"	15'-10 5/8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	18'-0 1/8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 3/4"	6'-11"	17'-10 3/4"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	20'-0 1/8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 3/4"	8'-4"	19'-10 3/4"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11½"	9'-10"	22'-0 1/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 3/4"	9'-9"	21'-10 3/4"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	17'-2 1/8"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	19'-2 1/8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	21'-2 1/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11½"	9'-10"	23'-2 1/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	18'-2 1/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	20'-2 1/8"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	22'-2 1/8"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11½"	9'-10"	24'-2 1/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	17'-6 7/8"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	19'-6 7/8"	7.5	Yes
9'-0"	4'-0"	9'	9"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	21'-6 7/8"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 7/8"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 1/8"	9'-11"	25'-5 5/8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1½"	4'-5"	18'-10 1/4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1½"	5'-10"	20'-10 1/4"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1½"	7'-3"	22'-10 3/8"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1½"	8'-8"	24'-10 3/8"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1½"	10'-1"	26'-10 3/8"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 7/8"	4'-7"	20'-3 1/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 7/8"	6'-0"	22'-3 1/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 1/4"	7'-4"	24'-1 3/4"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	26'-1 3/4"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	28'-1 7/8"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 5/8"	4'-8"	21'-6 1/2"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 5/8"	6'-1"	23'-6 1/2"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 5/8"	7'-6"	25'-6 5/8"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 5/8"	8'-11"	27'-6 5/8"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 5/8"	10'-4"	29'-6 5/8"	17.4	Yes

Note:
Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

(Sheet 1 of 2)

SCB-AES 5-15-2023

MODEL: $MODELNAME$
FILE NAME: $FILEL$

USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - STRUCTURE NO.
	CHECKED -	REVISED -		SHEET OF SHEETS
PLOT SCALE =	DRAWN -	REVISED -		
PLOT DATE =	CHECKED -	REVISED -		

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

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Rosemont, Illinois 60018
(847) 823-0500

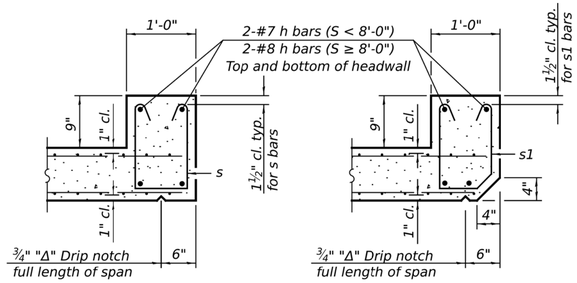
CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME	N:\OakLawn\230445\Civil\JCD_230445_01.sht		

DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF JMB
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

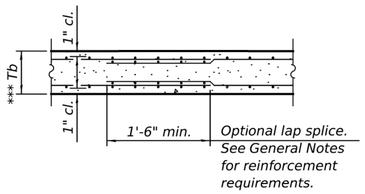
TITLE:
CHSD 218 ADMINISTRATION BUILDING
STORMWATER IMPROVEMENTS PROJECT
JUNCTION CHAMBER &
HEADWALL PLAN & ELEV.

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 68 OF 75
DRAWING NO.
68

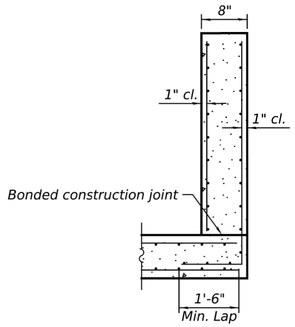


SECTION B-B
(Top slab at downstream end)

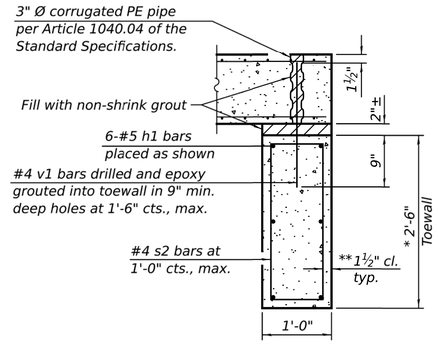
SECTION B-B
(Top slab at upstream end)



SECTION B-B
(Bottom Slab)

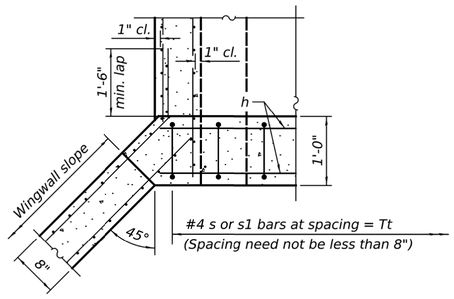


SECTION C-C

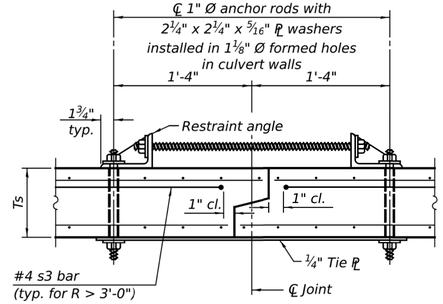


SECTION D-D

*** This dimension shall be increased by 2" for CIP construction.



SECTION E-E



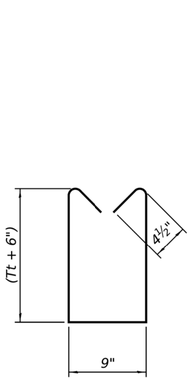
SECTION F-F
(Showing culvert tie details)

TOEWALL CONSTRUCTION SEQUENCE

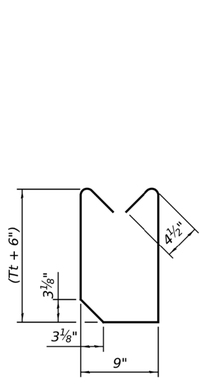
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

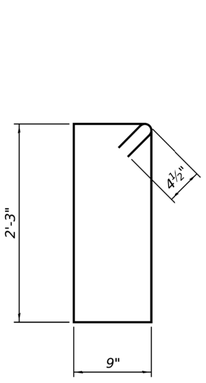
** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



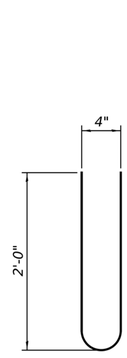
BAR s



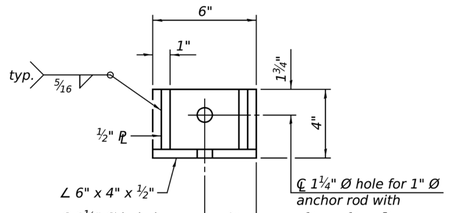
BAR s1



BAR s2



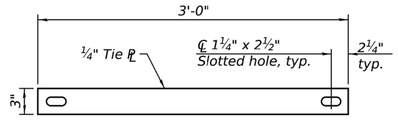
BAR s3



RESTRAINT ANGLE DETAIL

Notes:

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼"x2¼"x5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ½ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



TIE PLATE DETAIL

SCB-AES 5-15-2023

(Sheet 2 of 2)

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - STRUCTURE NO.

SHEET OF SHEETS

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

MODEL: SMODELNAMES
FILE NAME: SFILELS
SDATES STIMES

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

CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

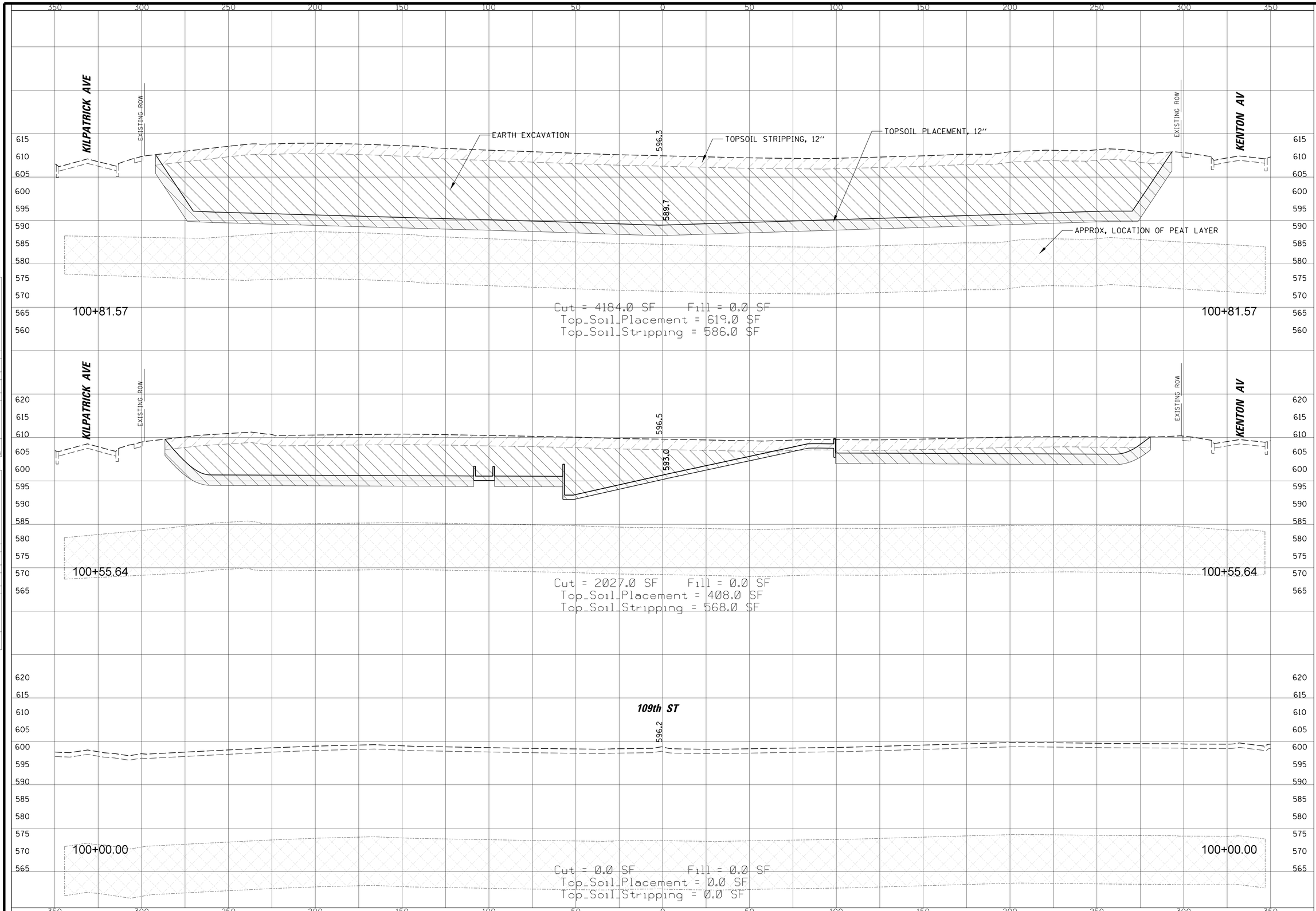
NO.	DATE	NATURE OF REVISION	CHKD.

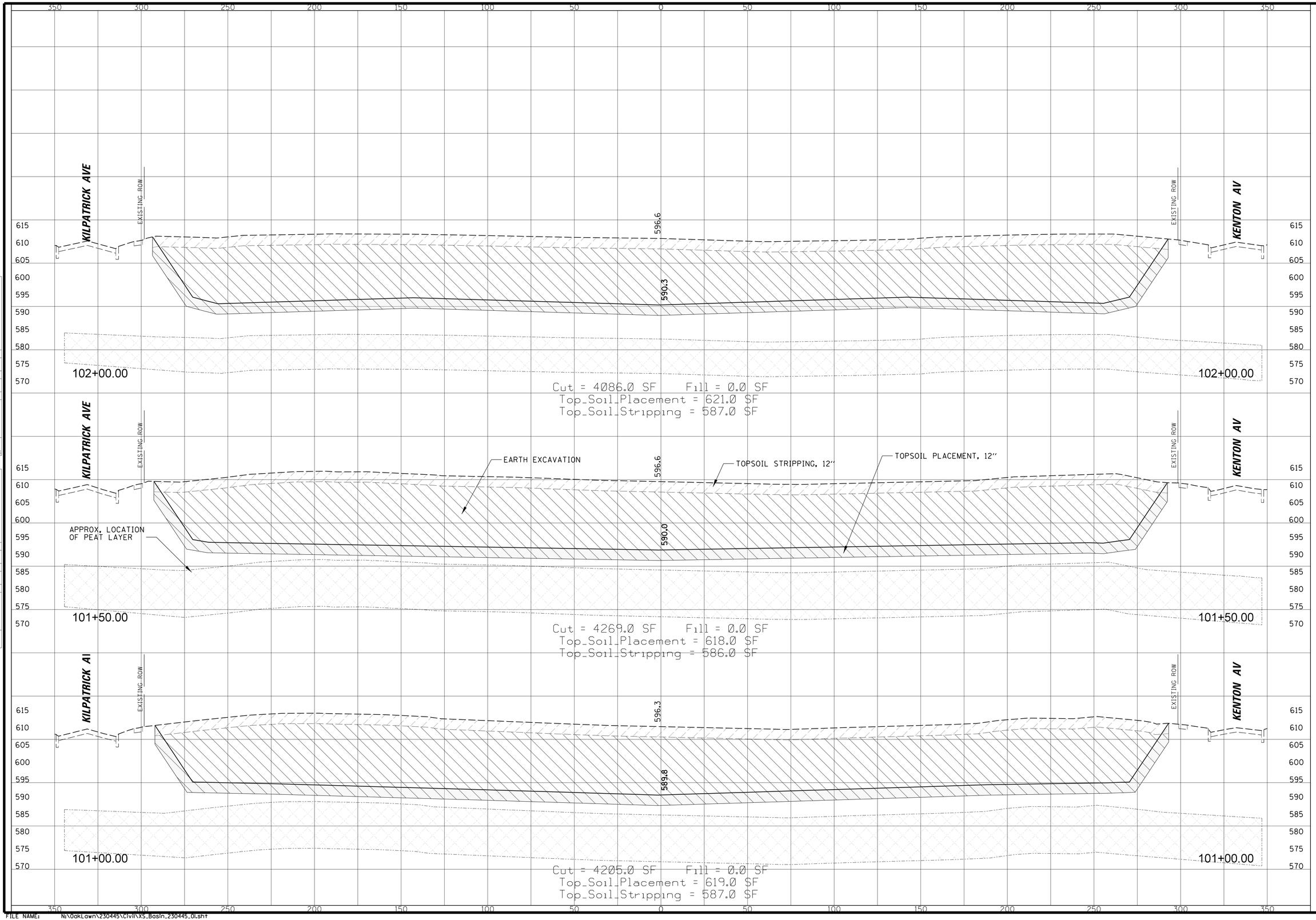
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DSGN.	JAL DTO
DWN.	MAK
CHKD.	LMF JMB
SCALE:	20'
PLOT DATE:	7/28/2025
CAD USER:	mkoonce
MODEL:	Default

TITLE:
CHSD 218 ADMINISTRATION BUILDING STORMWATER IMPROVEMENTS PROJECT
JUNCTION CHAMBER & HEADWALL PLAN & ELEV.

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 69 OF 75
DRAWING NO. 69


KILPATRICK AVE
EXISTING ROW
EARTH EXCAVATION
596.3
589.7
TOPSOIL STRIPPING, 12''
TOPSOIL PLACEMENT, 12''
EXISTING ROW
KENTON AV
APPROX, LOCATION OF PEAT LAYER
100+81.57
Cut = 4184.0 SF Fill = 0.0 SF
Top_Soil_Placement = 619.0 SF
Top_Soil_Stripping = 586.0 SF
100+81.57
KILPATRICK AVE
EXISTING ROW
596.5
593.0
EXISTING ROW
KENTON AV
100+55.64
Cut = 2027.0 SF Fill = 0.0 SF
Top_Soil_Placement = 408.0 SF
Top_Soil_Stripping = 568.0 SF
100+55.64
109th ST
596.2
100+00.00
Cut = 0.0 SF Fill = 0.0 SF
Top_Soil_Placement = 0.0 SF
Top_Soil_Stripping = 0.0 SF
100+00.00
350 300 250 200 150 100 50 0 50 100 150 200 250 300 350



PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 71 OF 75
DRAWING NO. 71

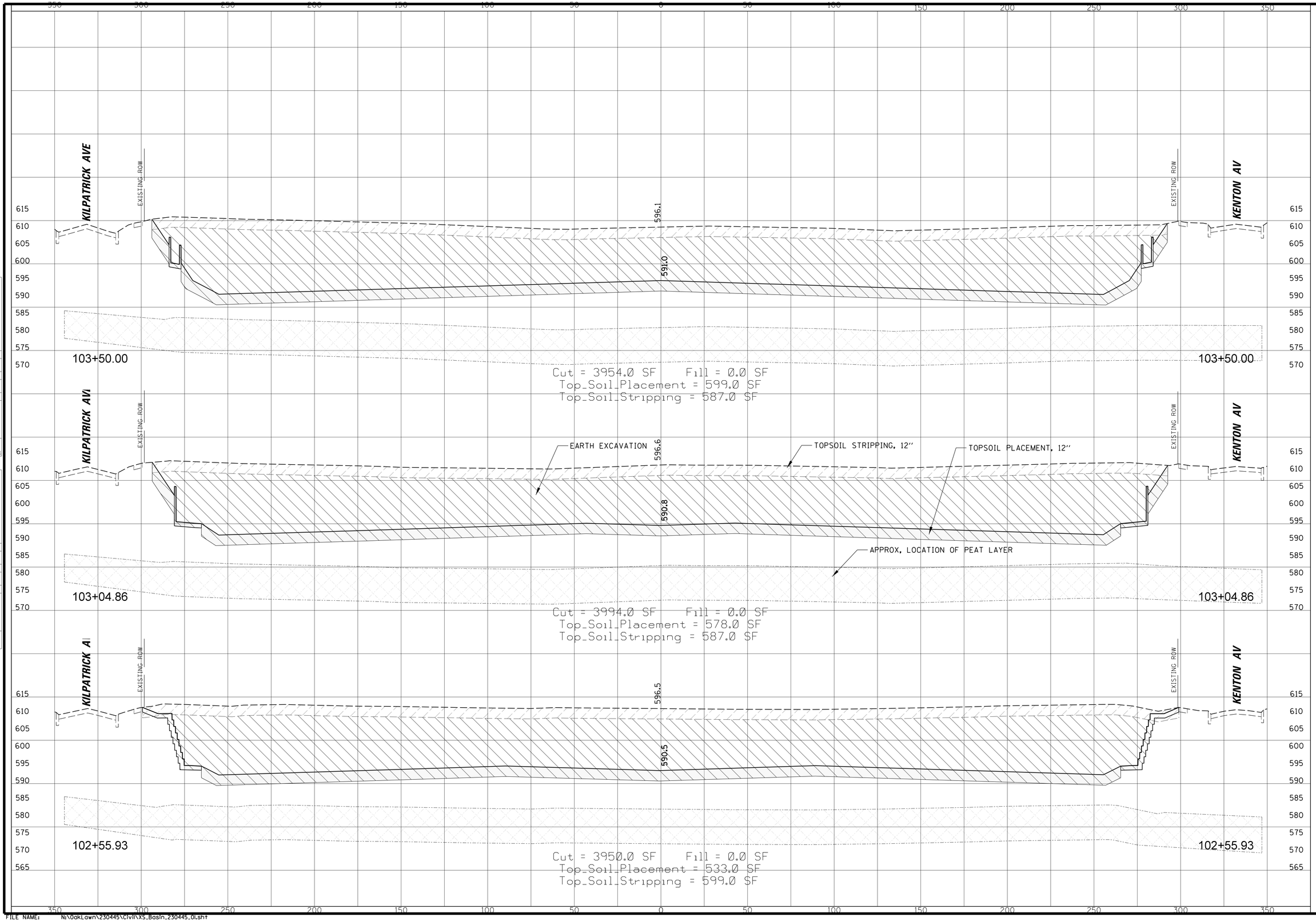
TITLE: CHSD 218 ADMIN. BUILD.
STORMWATER IMPROVEMENTS
DETENTION BASIN
CROSS SECTIONS

DSGN.	JAL	DTO
DWN.	MAK	
CHKD.	LMF	
SCALE:	HORZ. 30 VERT. 5	
PLOT DATE:	7/28/2025	
CAD USER:	mkoonce	
MODEL:	Default	

CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

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FILE NAME: N:\OakLawn\230445\Civil\XS_Basin_230445_01.sht



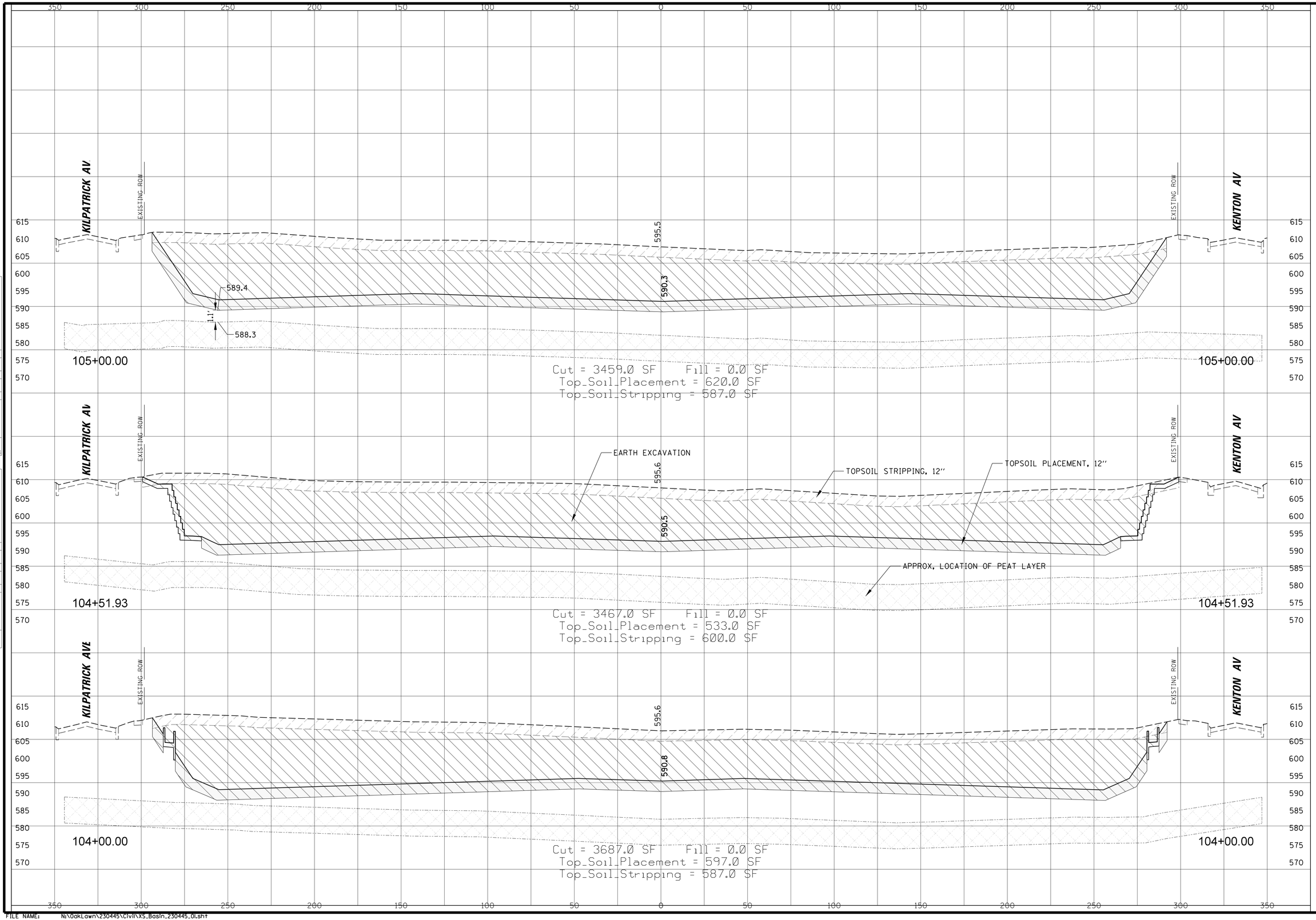
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DWN.	MAK		
CHKD.	LMF		
SCALE:	HORZ. 30 VERT. 5		
PLOT DATE:	7/28/2025		
CAD USER:	mkoonce		
MODEL:	Default		

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 72 OF 75
DRAWING NO. 72

CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

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FILE NAME: N:\OakLawn\230445\Civil\XS_Basin_230445_01.sht



PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 73 OF 75
DRAWING NO. 73

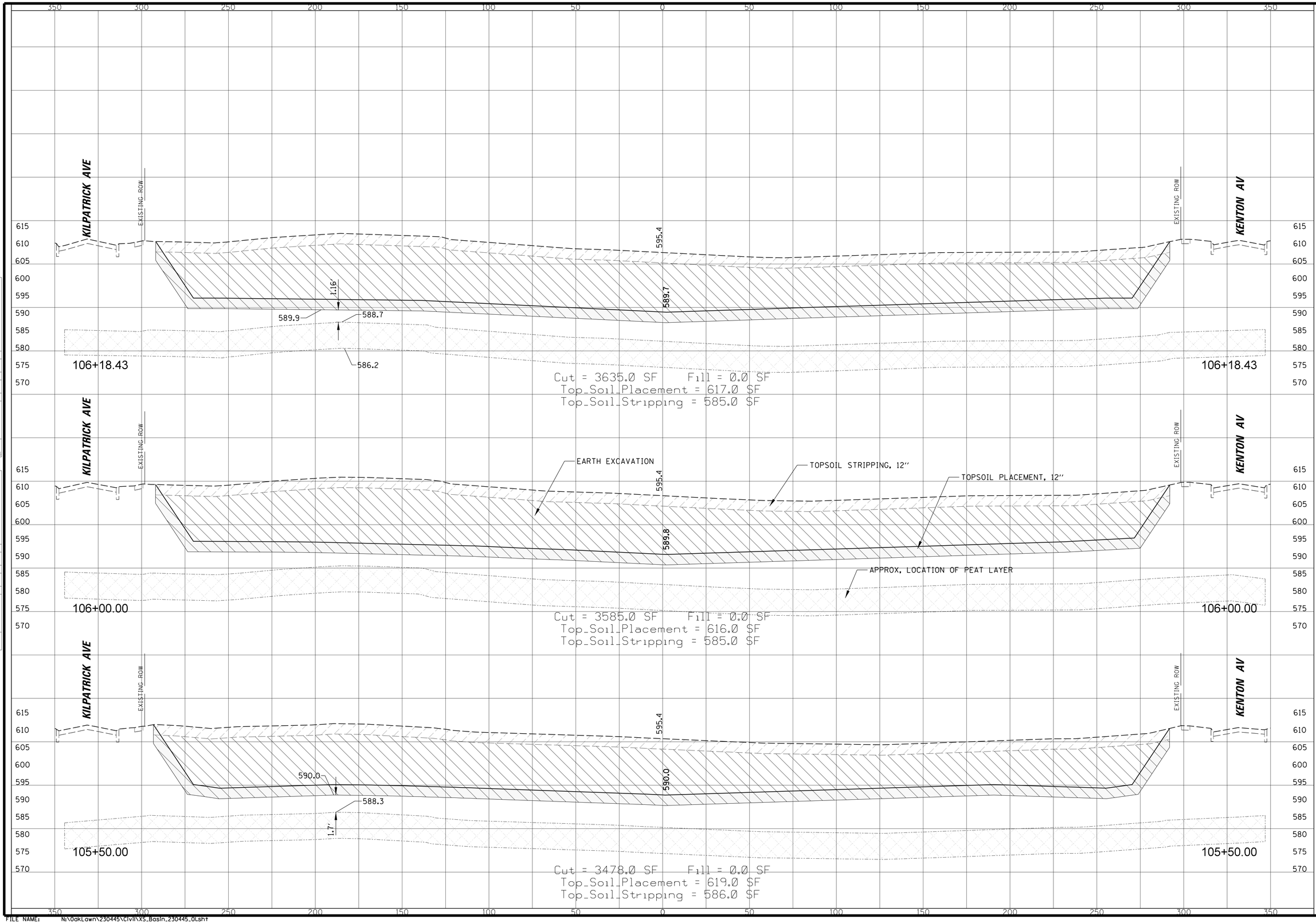
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STORMWATER IMPROVEMENTS
DETENTION BASIN
CROSS SECTIONS

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DWN.	MAK	
CHKD.	LMF	
SCALE:	HORZ. 30 VERT. 5	
PLOT DATE:	7/28/2025	
CAD USER:	mkoonce	
MODEL:	Default	

CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

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PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 74 OF 75
DRAWING NO. 74

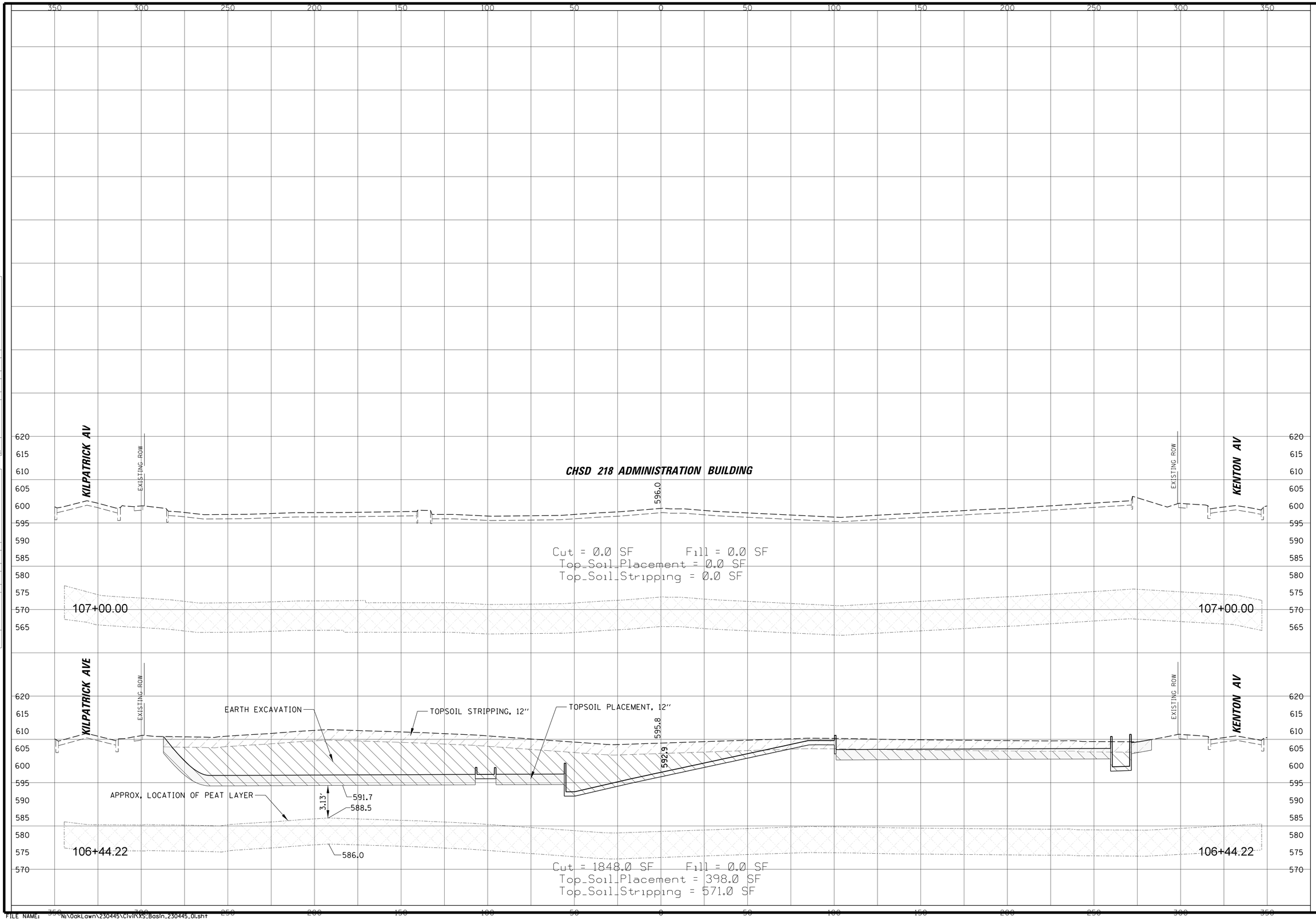
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STORMWATER IMPROVEMENTS
DETENTION BASIN
CROSS SECTIONS

		DTO
DSGN.	JAL	
DWN.	MAK	
CHKD.	LMF	
SCALE:	HORZ. 30 VERT. 5	
PLOT DATE:	7/28/2025	
CAD USER:	mkoonce	
MODEL:	Default	

CLIENT:
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OAK LAWN, ILLINOIS 60453

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

FILE NAME: N:\OakLawn\230445\Civil\XS_Basin_230445_01.sht



DSGN.	JAL	DTO	
DWN.	MAK		
CHKD.	LMF		
SCALE:	HORZ. 30 VERT. 5		
PLOT DATE:	7/28/2025		
CAD USER:	mkoonce		
MODEL:	Default		

TITLE: **CHSD 218 ADMIN. BUILD.**
STORMWATER IMPROVEMENTS
DETENTION BASIN
CROSS SECTIONS

PROJ. NO. 23-0445
DATE: 7/28/2025
SHEET 75 OF 75
DRAWING NO. **75**

CLIENT:
VILLAGE OF OAK LAWN
9446 S RAYMOND AVENUE
OAK LAWN, ILLINOIS 60453

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