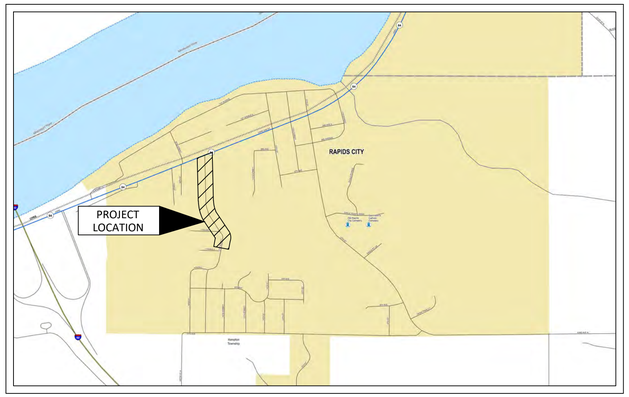
DRAWINGS FOR PROPOSED IMPROVEMENTS
17TH STREET RECONSTRUCTION
IN THE VILLAGE OF RAPIDS CITY, ROCK ISLAND COUNTY, ILLINOIS



VILLAGE OF RAPIDS CITY, ILLINOIS

DESIGN STANDARDS AND REFERENCE DRAWINGS

THE PROPOSED IMPROVEMENTS INCLUDED IN THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH VILLAGE OF RAPIDS CITY REQUIREMENTS AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ILLINOIS STANDARD DETAILS, LATEST ADDITIONS, UNLESS NOTED OTHERWISE ON THE PLANS.

THE FOLLOWING FIGURES FROM THE HIGHWAY STANDARDS, CURRENT ADDITION, ARE INCLUDED BY REFERENCE:

FIGURE	TITLE
IDOT 542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
IDOT 420001-10	PAVEMENT JOINTS
IDOT 420111-04	PCC PAVEMENT ROUNDOUTS
IDOT 602501-06	PRECAST VALVE VAULT TYPE A 4' DIAMETER
IDOT 606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
IDOT 606101-05	TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
IDOT 424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
IDOT 424026-03	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
IDOT 701301-04	LANE CLOSURE, SHORT TIME OPERATIONS
IDOT 701501-06	URBAN LANE CLOSURE, UNDIVIDED
IDOT 701901-08	TRAFFIC CONTROL DEVICES
IDOT 280001-07	TEMPORARY EROSION CONTROL SYSTEMS

THE FOLLOWING FIGURES FROM THE ILLINOIS URBAN MANUAL, CURRENT ADDITION, ARE INCLUDED BY REFERENCE:

STANDARD #	TITLE
IUM-530	EROSION CONTROL BLANKET INSTALLATION DETAILS
IUM-531	EROSION CONTROL BLANKET - TURF REINFORCEMENT MAT (TRM)
IUM-561C	INLET PROTECTION - IMPERVIOUS AREAS CURB PROTECTION
IUM-562	INLET PROTECTION LOG TYPE
IL-605R	ROCK CHECK DAM - RIPRAP
IUM-627	TEMPORARY SOIL STOCKPILE DETAIL
IUM-620A	SILT FENCE PLAN
IUM-620B(W)	SILT FENCE - SPLICING TWO FENCES
IL-630	STABILIZED CONSTRUCTION ENTRANCE PLAN
IUM-654SB1	TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE
IUM-690-A	TREE PROTECTION - FENCING (MODERATELY URBANIZED TO OPEN SPACE AREAS)
IUM-690-C	TREE TRUNK PROTECTION

THE FOLLOWING FIGURES FROM THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, CURRENT ADDITION, ARE INCLUDED BY REFERENCE:

STANDARD #	TITLE
1	RIGID PIPE INSTALLATION DETAIL
2	FLEXIBLE PIPE INSTALLATION DETAIL
7	TYPICAL RISER FOR STORM SERVICE LATERAL
11	TYPICAL HYDRANT INSTALLATION
12	TYPICAL THRUST BLOCK INSTALLATIONS
12G	RETAINING GLAND RESTRAINT
12S	STRAPPING WATER MAIN 6" THRU 16"
14	TYPICAL VALVE BOX INSTALLATION
17	TYPICAL TAP SERVICE PIPING (COPPER)
18	WATER AND SEWER SEPARATION REQUIREMENTS - HORIZONTAL SEPARATION
19	WATER AND SEWER SEPARATION REQUIREMENTS - VERTICAL SEPARATION
20	WATER AND SEWER SEPARATION REQUIREMENTS - VERTICAL SEPARATION
21	WATER AND SEWER SEPARATION REQUIREMENTS - VERTICAL SEPARATION
22	WATER AND SEWER SEPARATION REQUIREMENTS - VERTICAL SEPARATION
23	WATER AND SEWER SEPARATION REQUIREMENTS - VERTICAL SEPARATION
24	WATER AND SEWER SEPARATION REQUIREMENTS - VERTICAL SEPARATION

APPLICANT INFORMATION

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LICENSED PROFESSIONAL ENGINEER
BRIAN A. BOELK
062-074137
OF ILLINOIS

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

BRIAN A. BOELK, P.E. DATE
LICENSE NUMBER 062-074137.

MY LICENSE RENEWAL DATE IS NOVEMBER 30, 2023.

PAGES OR SHEETS COVERED BY THIS SEAL:

ENGINEER:
AXIOM CONSULTANTS
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: COVER SHEET
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: A.01

GENERAL NOTES:

1. THE APPROVING AUTHORITY FOR THIS PROJECT SHALL BE THE **VILLAGE OF RAPIDS CITY, ILLINOIS.**
2. THE TERM "ENGINEER" REFERS TO **AXIOM CONSULTANTS, LLC**.
3. THE TERM "CONTRACTOR" REFERS TO THE GENERAL CONTRACTOR AND ANY AND ALL SUB-CONTRACTORS WORKING ON THE PROJECT.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION), INCLUDING THE APPROVING AUTHORITY'S SUPPLEMENTAL SPECIFICATIONS.
5. THE LOCATION OF UNDERGROUND UTILITIES INCLUDING MAINS, SERVICE LINES, STRUCTURES, AND OTHER APPURTENANCES ARE APPROXIMATE ONLY. LOCATIONS SHOWN WERE OBTAINED FROM PLANS OF RECORD AND/OR UTILITY LOCATES. THERE MAY BE ADDITIONAL UTILITIES THAT ARE NOT SHOWN ON THESE DRAWINGS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING JULIE (811 OR www.illinois1call.com) PRIOR TO PERFORMING ANY WORK, INCLUDING PROVIDING SUFFICIENT LEAD TIME FOR LOCATES TO BE COMPLETED PRIOR TO PERFORMING WORK .
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE LOCAL MUNICIPALITY (INCLUDING ILLINOIS DOT AND COUNTY ROADS DEPARTMENT, IF APPLICABLE) AND/OR APPROPRIATE UTILITY COMPANIES OF THE ANTICIPATED WORK SCHEDULE. THE CONTRACTOR SHALL COORDINATE WORK SCHEDULES AS REQUIRED. A MINIMUM OF 48-HOURS NOTICE IS RECOMMENDED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL, STATE, AND FEDERAL PERMITS UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO, DEMOLITION PERMITS AND WORK IN THE RIGHT-OF-WAY PERMITS. THE CONTRACTOR SHALL MAKE ALLOWANCES IN THE SCHEDULE FOR THE TIME REQUIRED TO OBTAIN PERMITS AND ANY ASSOCIATED NOTICE PERIODS.
9. THE CONTRACTOR SHALL LIMIT ALL WORK, STAGING, AND MATERIALS STORAGE TO THE PROJECT AREA AS IDENTIFIED WITHIN THE CONTRACT DOCUMENTS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING PROPERTY MONUMENTS (PINS) WITHIN AND ADJACENT TO THE PROJECT AREA. THE ENGINEER SHALL BE MADE AWARE OF ANY PROPERTY MONUMENTS THAT ARE AT RISK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RESETTING PROPERTY MONUMENTS REMOVED ARE DESTROYED BY CONSTRUCTION ACTIVITY, INCLUDING THE COST OF PREPARING AND RECORDING ANY NECESSARY PLATS. ALL PROPERTY MONUMENTS SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF ILLINOIS.
11. AXIOM CONSULTANTS TO PROVIDE ALL CONSTRUCTION STAKING AS DEEMED NECESSARY BY CONTRACTOR. CONTRACTOR TO COORDINATE DIRECTLY WITH BRAD GEATER AT BGEATER@AXIOM-CON.COM OR 515-205-7268.
12. 17TH STREET DOES SERVE AS A SCHOOL BUS ROUTE FOR THE RIVERDALE SCHOOL DISTRICT. AT TIME OF ROAD CLOSURES OR IMPACTS TO ACCESS ALONG 17TH STREET, CONTRACTOR SHALL COORDINATE WITH AXIOM CONSULTANTS AND/OR RIVERDALE SCHOOL DISTRICT VIA BUS BARN SUPERINTENDENT (LORI ORTIZ) AT LORTIZ@RIVERDALESCHOOLS.ORG OR 309-523-3185.
13. GENERAL WORKING HOURS ARE CONSIDERED TO BE 7:00 A.M. TO 7:00 P.M. CONTRACTOR SHALL REQUEST APPROVAL TO WORK BEYOND SUCH HOURS VIA AXIOM CONSULTANTS OR VILLAGE OR RAPIDS CITY IF SO DESIRED.
14. PRIVATE UTILITY RELOCATIONS ARE EXPECTED TO BE NEEDED AND TAKE PLACE PRIOR TO OR DURING CONSTRUCTION. CONTRACTOR IS REQUIRED TO COORDINATE WITH ALL PRIVATE UTILITIES.
15. US POSTAL SERVICE (USPS) MAIL IS DELIVERED TO THE POST OFFICE FOR ALL PROPERTIES ALONG 17TH STREET ROAD RECONSTRUCTION PROJECT. ACCESS TO ALL PROPERTIES THROUGHOUT PROJECT SHALL BE PROVIDED FOR PROPERTY OWNERS AND DIRECT PACKAGE DELIVERIES NOT ASSOCIATED WITH USPS.

SITE PREPARATION NOTES:

1. DEMOLITION / REMOVAL LIMIT LINE IS THE EXISTING PROPERTY LINE UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT PROPERTY DURING DEMOLITION / REMOVAL OPERATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER SANITATION FACILITIES ON SITE AND MAINTAINING SAID FACILITIES FOR THE DURATION OF THE PROJECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT TREES AND OTHER DESIRABLE VEGETATION FROM DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITY. PROTECTION INCLUDES, BUT IS NOT LIMITED TO, CONSTRUCTION FENCING AROUND THE DRIP LINE OF TREES AND PROHIBITING VEHICLE TRAFFIC AND MATERIAL STORAGE WITHIN THE DRIP LINE.
5. REMOVAL AND DISPOSAL OF EXISTING TREES AND OTHER VEGETATION WITHIN THE CONSTRUCTION LIMITS SHALL BE INCIDENTAL TO THE GRADING PORTION OF THE PROJECT UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. STUMPS AREA TO BE GROUND TO AT LEAST TWO-FEET BELOW FINISHED GRADE OR OTHERWISE REMOVED. TRUNKS, BRANCHES, AND OTHER WOODY VEGETATION SHALL BE CHIPPED OR SHREDDED AND USED FOR EROSION AND SEDIMENT CONTROL MATERIALS UNLESS NOTED OTHERWISE. NO BURNING SHALL BE ALLOWED.
6. FULL DEPTH SAW CUTS SHALL BE UTILIZED WHERE ADJACENT PAVEMENT WILL REMAIN TO PREVENT DAMAGE TO THE PAVEMENTS THAT WILL REMAIN.
7. WHERE A SECTION OF PAVEMENT, CURB AND GUTTER, AND/OR SIDEWALK IS DAMAGED BY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL REMOVE AND REPLACE THE ENTIRE AFFECTED SECTION AT NO ADDITIONAL COST.
8. PAVEMENT, CURB AND GUTTER, AND/OR SIDEWALKS SHALL BE REMOVED TO THE NEAREST JOINT (A MINIMUM OF TWO FEET BEYOND EXCAVATION AND TRENCH LIMITS) TO PREVENT UNDERMINING.
9. UNLESS NOTED OTHERWISE, ANY EXISTING STRUCTURES SHOWN ON THE PLANS FOR REMOVAL SHALL BE REMOVED IN THEIR ENTIRETY. THIS INCLUDES, BUT IS NOT LIMITED TO, FOUNDATIONS AND FOOTINGS, FLOORS, WALLS, UTILITY SERVICE LINES, SIDEWALKS, DRIVEWAYS, CURBS, AND OTHER ASSOCIATED PAVEMENT.
10. CONCRETE, BUILDING MATERIALS, AND OTHER WASTE MUST BE DISPOSED OF OFFSITE, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PROVIDE APPROPRIATE SORTING AND WASTE STORAGE AREAS ON SITE FOR WASTE MATERIALS PRIOR TO HAUL OFF. DISPOSAL SITES MUST BE APPROVED BY THE ENGINEER. OFF-SITE DISPOSAL SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
11. ANY EXISTING ROCK AND DEPTH OF SUCH ROCK BENEATH EXISTING PAVEMENTS IS UNKNOWN. IF ANY SUCH ROCK IS ENCOUNTERED IT SHALL BE INCLUDED IN CLASS 10 EXCAVATION. TOPSOIL REMOVAL IS NOT INCLUDED IN CLASS 10 QUANTITY.

SITE GRADING NOTES:

1. THE APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING GRADING OPERATIONS.
2. THE CONTRACTOR SHALL MOW EXISTING VEGETATION AND THEN STRIP EXISTING TOPSOIL (A-HORIZON) WITHIN GRADING LIMITS AND AREAS TO RECEIVE FILL. TOPSOIL SHALL BE STOCKPILED ONSITE FOR REUSE.
3. IMPORTED FILL MATERIALS SHALL BE SOIL OR SOIL AND ROCK MIXTURE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES. IT SHALL CONTAIN NO ROCKS OR CLUMPS LARGER THAN 6" IN LARGEST DIMENSION AND NO MORE THAN 15% BY VOLUME OF THE MATERIAL SHALL BE LARGER THAN 2-1/2 INCHES IN THE GREATEST DIMENSION. THE ENGINEER MAY REQUIRE GEOTECHNICAL TESTING AND ANALYSIS OF IMPORTED MATERIALS. THERE SHALL BE NO ADDITIONAL PAYMENT FOR SAID ANALYSIS
4. GENERAL COMPACTION REQUIREMENTS ARE INDICATED BELOW AND RELATIVE COMPACTION IS BASED UPON THE MATERIALS STANDARD PROCTOR DRY DENSITY (ASTM D698). THE CONTRACTOR SHALL PROVIDE MATERIAL SAMPLES TO THE TESTING AGENCY AS REQUIRED TO ESTABLISH THE MATERIAL PROPERTIES.

LOCATION OF FILL MATERIALS	RELATIVE COMPACTION	MOISTURE VARIANCE FROM OPTIMUM
BELOW FOUNDATIONS, FLOOR SLABS & PAVEMENTS	98%	-3% to +3% SANDS -1% to +3% CLAYEY SOILS
BELOW FLOOR SLABS & PAVEMENTS MORE THAN 2' BELOW SUBGRADE	95%	-3% to +3% SANDS -1% to +3% CLAYEY SOILS
BELOW LANDSCAPED SURFACES	90%	-5% to + 5% ALL SOILS

5. IN CUT AREAS, EXCAVATE AND STOCKPILE THE TOP SIX INCHES OF SUBGRADE. THEN, SCARIFY AND RE-COMPACT THE NEXT SIX INCHES OF SUBGRADE. FINALLY, REPLACE, MIX, AND COMPACT THE TOP SIX INCHES OF SUBGRADE. COMPACTION SHALL BE PER PROJECT COMPACTION REQUIREMENTS.
6. IN FILL AREAS, REMOVE THE TOP TWELVE-INCHES OF EXISTING MATERIAL, SCARIFY AND RE-COMPACT PER PROJECT COMPACTION REQUIREMENTS.
7. PROOF ROLL THE SUBGRADE WITH A SINGLE AXLE GROSS WEIGHT OF 20,000 POUNDS OR TANDEM AXLE GROSS WEIGHT OF 34,000 POUNDS. OPERATE THE VEHICLE AT LESS THAN 10 MPH. SOIL RUTTING IN EXCESS OF 2 INCHES OR YIELDING IS INDICATIVE OF UNSUITABLE SUBGRADE. REMOVE AND REPLACE THE SOIL IN THESE AREAS OR RE-WORK TO ACHIEVE SUITABLE MOISTURE AND DENSITY CONDITIONS.
8. REFER TO SURFACE RESTORATION NOTES FOR SPECIFIC REQUIREMENTS FOR AREAS TO RECEIVE TOPSOIL.

EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING THE APPROPRIATE BEST MANAGEMENT PRACTICES (BMP) IN ACCORDANCE WITH THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT THE BEST MANAGEMENT PRACTICES A MINIMUM OF ONCE PER WEEK. INSPECTIONS, AND ANY REQUIRED CORRECTIVE ACTION, SHALL BE DOCUMENTED.
3. SEDIMENT BARRIERS SUCH AS SILT FENCE AND SEDIMENT SOCKS SHALL BE CLEANED WHEN THE DEPTH OF ACCUMULATED SEDIMENT DEPTH MEETS OR EXCEEDS FIFTY PERCENT OF THE HEIGHT OF THE BARRIER.
4. TEMPORARY SEED OR OTHER APPROPRIATE MEASURE SHALL BE APPLIED TO DISTURBED AREAS THAT REMAIN INACTIVE FOR MORE THAN FOURTEEN DAYS.
5. THE GENERAL SEQUENCE OF EROSION AND SEDIMENT CONTROL EVENTS IS:
   - A. INSTALL PERIMETER MEASURES AND INLET PROTECTION DEVICES
   - B. CONSTRUCT CONSTRUCTION ENTRANCE / TRACKING PAD
   - C. STRIP AND STOCKPILE TOPSOIL
   - D. PERFORM SITE GRADING OPERATIONS
   - E. STABILIZE PAVED AREAS WITH GRANULAR SUBBASE
   - F. STABILIZE AREAS OUTSIDE OF BUILDING FOOTPRINT AND PAVEMENT AT EARLIEST OPPORTUNITY. IF WORK WILL CONTINUE IN AN AREA AT A LATER DATE, PROVIDE TEMPORARY STABILIZATION IN THE FORM OF TEMPORARY SEEDING OR OTHER SURFACE TREATMENT.
   - G. REMOVE ALL TEMPORARY MEASURES UPON FINAL STABILIZATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ALL BMPs. THE COST SHALL BE INCIDENTAL TO INSTALLING AND MAINTAINING THE BMPs.

SURFACE RESTORATION NOTES:

1. ALL DISTURBED AREAS SHALL BE STABILIZED WITH MEASURES APPROPRIATE FOR THE FINAL USE OF THE AREA. WHEN POSSIBLE, THE CONTRACTOR SHALL PHASE THE PROJECT WORK TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT A GIVEN TIME. REFER TO THE EROSION AND SEDIMENT CONTROL NOTES FOR ADDITIONAL REQUIREMENTS.
2. TOPSOIL SHALL BE PLACED IN AREAS THAT WILL NOT BE PAVED OR OTHERWISE BUILT UPON.
3. SCARIFY THE FINAL SUBGRADE TO A DEPTH OF FOUR-INCHES PRIOR TO PLACING TOPSOIL. REMOVE ALL STONES LARGER THAN THREE INCHES, WOOD, AND OTHER DEBRIS.
4. TOPSOIL TO BE PLACED AT A MINIMUM DEPTH OF FOUR-INCHES UNLESS NOTED OTHERWISE.
5. IN PREPARATION OF PERMANENT SEED OR SOD, ROTOTILL TOPSOIL TO A DEPTH OF AT LEAST THREE INCHES, REMOVING ANY ROCKS OR OTHER DEBRIS LARGER THAN TWO-INCHES. SHAPE AND FINE GRADE THE AREA TO REMOVE RILLS OR GULLIES, WATER POCKETS, AND IRREGULARITIES TO PROVIDE A SMOOTH AND EVEN SURFACE.
6. IN PREPARATION OF TEMPORARY SEED, TILL THE SOIL TO A DEPTH OF FIVE INCHES WITH A DISK, HARROW, OR FIELD CULTIVATOR.
7. APPLY SEED AT RATES INDICATED IN CONTRACT DOCUMENTS. CONTRACTOR SHALL MAINTAIN SEEDED AREAS UNTIL AN ADEQUATE STAND OF GRASS HAS BEEN ESTABLISHED AND SOD AREAS UNTIL THE SOD HAS TAKEN ROOT.
8. NATIVE MIX TO BE IDOT CLASS 1B - LOW MAINTENANCE LAWN MIXTURE PER SECTION 250 OF THE ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-1E REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: GENERAL NOTES
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: A.02

GENERAL UTILITY NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING CONDITIONS OF ALL CONNECTION POINTS TO EXISTING UTILITIES PRIOR TO FABRICATING ANY STRUCTURES OR COMPONENTS OR COMMENCING CONSTRUCTION WORK FOR THE APPLICABLE PHASE OF WORK. THE ENGINEER SHALL BE MADE AWARE OF ANY DISCREPANCIES FROM THE CONTRACT DOCUMENTS IMMEDIATELY
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF POSSIBLE CONFLICTING UTILITIES PRIOR TO COMMENCING WORK. THIS MAY REQUIRE EXCAVATION OR OTHER WORK TO EXPOSE THE UTILITIES IN QUESTION. THE ENGINEER MUST BE MADE AWARE OF ANY CONFLICTS IMMEDIATELY
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES THROUGHOUT ALL PHASES OF CONSTRUCTION
4. THE CONTRACTOR SHALL BE RESONSIBLE FOR ADJUSTING ALL VALVES, MANHOLES, CASTINGS, GAS VENTS, ETC. TO MATCH THE PROPOSED SURFACE ELEVATIONS. ADJUSTMENTS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY AND THE COSTS FOR SAID ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO SAID STRUCTURES OR APPURTENANCES THAT OCCUR DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER
5. THE CONTRACTOR SHALL BE REQUIRED TO PRODUCE RECORD DOCUMENTS REGARDING ASPECTS OF THE PROJECT WHICH DIFFER FROM THE CONTRACT DOCUMENTS. THIS INCLUDES BOTH EXISTING FACILITIES ENCOUNTERED AND PROPOSED FACILITIES CONSTRUCTED. THE INFORMATION SHALL INCLUDE LOCATION, DIMENSION, AND MATERIAL DATA. THE LOCATION OF UNDERGROUND FACILITIES SHALL BE NOTED IF THEY DIFFER FROM THE CONTRACT DOCUMENTS FOR MORE THAN TWO FEET HORIZONTALLY OR SIX INCHES VERTICALLY OR ARE NOT SHOWN. ABOVE GROUND FACILITIES CONSTRUCTED OR ENCOUNTERED SHALL BE NOTED IF THEY DIFFER FROM THE CONTRACT DOCUMENTS BY MORE THAN ONE FOOT HORIZONTALLY OR THREE INCHES VERTICALLY.
6. WATER SHUT-OFF NOTICES TO THE HOMEOWNERS TO BE COORDINATED WITH VILLAGE OF RAPIDS CITY (RYAN BUMP) AND NOTICES TO BE POSTED/COMMUNICATED TO THE HOMEOWNERS BY THE VILLAGE.
7. THE SCOPE OF WATER SERVICE WORK FOR THIS PROJECT IS FOR REPLACEMENT OF WATER SERVICES TO THE PROPERTY LINE (R.O.W) AS SHOWN ON PLANS. IF ANY ADDITIONAL SERVICE WORK IS REQUESTED BY PROPERTY OWNERS IT SHALL BE COORDINATED DIRECTLY BETWEEN THE CONTRACTOR AND RESPECTIVE PROPERTY OWNER.
8. THIS PROJECT PROVIDES STORM SEWER (SUMP) SERVICES TO EACH PROPERTY WHERE SUBDRAIN PROPOSED. IF RESIDENCES CURRENTLY HAVE SUMP PUMPS OR DRAIN SPOUTS CONNECTED TO EXISTING PUBLIC SUBDRAIN OR WITHIN PUBLIC R.O.W THE CONTRACTOR SHALL RE-CONNECT WITH THE NEW SERVICE. IF NO EXISTING CONNECTION IS FOUND, THEN THE NEW SERVICE LINE WILL BE CAPPED BY THE CONTRACTOR FOR FUTURE USE BY HOMEOWNER.

WATER MAIN NOTES:

1. WATER MAINS SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIALS PER STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION) SECTION 40, INCLUDING JOINT AND FITTING MATERIALS:

PIPE MATERIAL	BEDDING CLASS
PVC AWWA C900	P-1
DUCTILE IRON PIPE (DIP)	P-1

2. WATER SERVICES LINES SHALL BE CONSTRUCTED OF TYPE K COPPER AS SPECIFIED IN STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION) SECTION 40.
3. ALL WATER MAINS AND SERVICE LINES SHALL BE INSTALLED WITH TRACER WIRE.
4. WATER MAINS AND SERVICES SHALL BE BACKFILLED PER STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION) SECTION 20.
5. WATER MAIN FITTINGS SHALL BE MECHANICAL JOINTS COMPLYING WITH AWWA C111 FOR MAINS SIXTEEN INCHES AND SMALLER. USE RESTRAINED MECHANICAL JOINTS FOR PIPE SIZES LARGER THAN SIXTEEN INCHES.
6. CONCRETE THRUST BLOCKS REQUIRED AS SPECIFIED IN STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION) SECTION 41 AT ALL HYDRANTS, BENDS, VALVES, CROSSES, AND TEES.
7. CURB STOPS SHALL BE LOCATED AS INDICATED ON THE PLANS AND AS SPECIFIED IN STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION) SECTION 41.
8. ALL FIRE HYDRANT STATIONING IS TO CENTER OF THE WATER MAIN. CONTRACTOR SHALL INSTALL HYDRANTS A MINIMUM OF THREE FEET FROM THE BACK OF CURB. REFER TO DRAWINGS FOR SPECIFIC LOCATION. HYDRANTS ASSEMBLIES SHALL INCLUDE HYDRANT, AUXILIARY VALVE, SPOOL PIPE, AND TEE.
9. CONTRACTOR MAY DEFLECT WATER MAIN PER MANUFACTURER'S SPECIFICATIONS FOR HORIZONTAL DEFLECTION. PIPE DEFLECTION IS NOT ALLOWED FOR VERTICAL DEFLECTIONS.
10. THE APPROVING AUTHORITY SHALL OPERATE ALL EXISTING SYSTEM VALVES AND THE CONTRACTOR AND CITY SHALL COORDINATE ANY SHUT DOWNS TO THE EXISTING SYSTEM. THE CONTRACTOR SHALL MAKE ACCOMMODATIONS IN THE SCHEDULE TO ALLOW FOR ADEQUATE PUBLIC NOTICE AS REQUIRED BY THE APPROVING AUTHORITY.
12. CONSTRUCTION OF PUBLIC AND PRIVATE WATER SYSTEM IMPROVEMENTS REQUIRES AN APPROVED PLAN SET ON FILE WITH THE APPROVING AUTHORITY. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE APPROVING AUTHORITY FOR ANY VARIANCE FROM THE APPROVED PLAN.
13. WHERE WATER MAIN IS WITHIN FIVE FEET OF A STORM INLET, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO INCHES OF RIGID INSULATION ON THE SIDE OF THE INTAKE CLOSEST TO THE WATER MAIN TO PROTECT THE WATER MAIN FROM FREEZING
14. ALL TAPS FOUR INCHES AND LARGER SHALL BE "LIVE" TAPS USING AN APPROVED TAPPING SLEEVE AND VALVE, UNLESS NOTED OTHERWISE. THE APPROVING AUTHORITY SHALL WITNESS AND/OR PERFORM ALL TAPS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ARRANGING ON SITE INSPECTION OF WATER MAIN INSTALLATION WITH THE APPROVING AUTHORITY.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING AND RELATED COSTS INCLUDING, BUT NOT LIMITED TO, FILLING AND FLUSHING NEW MAINS, AND ALL REQUIRED SAMPLING. DISPOSAL OF HIGHLY CHLORINATED WATER SHALL BE IN COMPLIANCE WITH STATE, LOCAL, AND FEDERAL REGULATIONS. ALL TESTING TO COMPLY WITH THE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION) SECTION 41.
17. FOR WATER MAINS THAT ARE ACCEPTED INTO THE PUBLIC WATER DISTRIBUTION SYSTEM, THE CONTRACTOR SHALL WARRANT THE WORKMANSHIP AND MATERIAL OF THE INSTALLED WATER MAINS FOR A PERIOD OF THREE (3) YEARS FROM THE DATE OF ACCEPTANCE. THE CONTRACTOR SHALL FURNISH THE MUNICIPALITY A MAINTENANCE BOND COVER THE COST OF THE WATER IMPROVEMENTS FOR THAT PERIOD.
18. THE MINIMUM DEPTH OF BURY FOR ALL WATER MAINS AND WATER SERVICES IS FIVE FEET SIX INCHES (5' - 6"), UNLESS NOTED OTHERWISE.
19. PIPE LENGTHS ARE MEASURED TO ELBOWS, BENDS, TEES, OR CROSSES, UNLESS NOTED OTHERWISE.

WATER AND SEWER SEPARATION:

1. PIPES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION) SECTION 41.
2. ALL WATER MAINS AND SEWERS (SANITARY & STORM SEWERS) SHALL BE SEPARATED ACCORDING TO SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS.

STORM SEWER NOTES:

1. STORM SEWERS SHALL BE CONSTRUCTED OF MATERIALS PER STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION) DIVISION V, REINFORCED CONCRETE PIPE (RCP) SHALL BE UTILIZED WITHIN CITY RIGHT-OF-WAY.
2. THE CONTRACTOR SHALL UTILIZE AND INSTALL BEDDING AND APPROPRIATE PIPE CLASS BASED ON ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS SPECIFIED IN PLAN SHEETS.
3. RCP STORM SEWERS JOINTS SHALL BE TONGUE AND GROOVE JOINTS WRAPPED IN ENGINEERING FABRIC OR GASKETED JOINTS
4. STORM SEWERS UNDER AND WITHIN FIVE FEET OF ROADWAY PAVING SHALL BE BACKFILLED WITH GRANULAR BACKFILL
5. STORM SEWER MANHOLES SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION) SECTION 52.
6. STORM SEWER LENGTHS ARE PROVIDED FROM CENTER OF STRUCTURE UNLESS NOTED OTHERWISE. FLARED END SECTIONS ARE NOT INCLUDED IN PIPE LENGTH.
7. JOINT TIES (ANCHOR RODS) TO BE REQUIRED TO RESTRAIN STORM SEWER PIPE SECTIONS GREATER THAN 10% SLOPE.

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-1/E REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
SHEET NAME: GENERAL NOTES
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: A.03

PCC PAVEMENT NOTES

1. PCC PAVING THICKNESS SHALL BE 7-INCH ON 6-INCH GRANULAR SUBBASE, UNLESS STATED OTHERWISE.
2. MATERIALS AND CONSTRUCTION FOR PORTLAND CEMENT CONCRETE PAVEMENTS SHALL MEET THE REQUIREMENT OF ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
3. MINIMUM 28-DAY COMPRESSIVE STRENGTH FOR CONCRETE USED FOR PAVEMENTS SHALL BE 4000 PSI. CONCRETE SHALL BE C-3 OR C-4 WITH TYPE 1 CEMENT. AIR CONTENT SHALL BE 6-1/2% ± 1.5% COARSE AGGREGATE. AIR ENTRAINMENT ADMIXTURES AND WATER REDUCING ADMIXTURES SHALL CONFORM TO ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION .
4. DURABILITY FOR PORTLAND CEMENT CONCRETE SHALL BE CLASS 2.
5. JOINT SEALER SHALL CONFORM TO ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR HOT POURED JOINT SEALER.
6. CURING COMPOUND (WHITE, DARK OR CLEAR) SHALL CONFORM TO ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. APPLICATION METHOD AND CURING SHALL CONFORM TO ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
7. FLYASH PER ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MAY BE SUBSTITUTED FOR CEMENT AT THE RATES SPECIFIED AFTER NOTIFICATION AND AUTHORIZATION BY THE OWNER'S REPRESENTATIVE.
8. PAVEMENT TIE BARS AND DOWEL BARS SHALL CONFORM TO ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. EPOXY COATING, WHEN SPECIFIED, SHALL CONFORM TO ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
9. CURBS SHALL BE CAST INTEGRAL WITH CONCRETE PAVEMENT UNLESS NOTED OTHERWISE.
10. PCC SIDEWALKS 5 FEET OR LESS IN WIDTH SHALL BE 4 INCHES THICK. SIDEWALK THICKNESS AT ALL DRIVEWAYS SHALL MATCH THAT OF THE ADJACENT DRIVEWAY. TRANSVERSE CONSTRUCTION JOINT SPACING FOR PCC SIDEWALKS 5 FEET OR LESS IN WIDTH SHALL BE PLACED A MAXIMUM OF 5 FEET ON CENTER. PLACE EXPANSION JOINTS WHERE WALK MEETS OTHER WALKS, BACK OF CURBS, FIXTURES, OR OTHER STRUCTURES, AND AT INTERVALS NOT EXCEEDING 50 FEET. SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% DRAINING TOWARDS BACK OF CURB, UNLESS OTHERWISE NOTED.
11. ONE INCH PREFORMED FOAM EXPANSION JOINT MATERIAL SONOFLEX "F" BY SONOBORN OR APPROVED EQUAL SHALL BE PLACED BETWEEN NEW PAVEMENT CONSTRUCTION AND THE FACES OF BUILDINGS, STOOPS, EXISTING SLABS, AND OTHER FIXTURES, UNLESS NOTED ON THE DRAWINGS. JOINTS AT THESE LOCATIONS SHALL BE SEALED WITH A SELF-LEVELING POLYURETHANE SUCH AS SONOLASTIC SL-1 OR APPROVED EQUAL.
12. CONSTRUCT 1" EXPANSION JOINTS ON PCC CURB AT ALL ENDS OF RETURN RADII.
13. CONTRACTOR TO PROVIDE JOINTING PER ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. CONTRACTOR TO PROVIDE JOINTING PLAN FOR ENGINEER REVIEW AND APPROVAL. CONTRACTOR TO PROVIDE LONGITUDINAL JOINTS PER TYPICAL SECTIONS AS SHOWN ON B SHEETS. CONTRACTOR TO PROVIDE CONTRACTION JOINTS AT 15' NOMINAL SPACING. CONTRACTOR TO FOLLOW ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR BASIS OF LAYOUT. SEE CORRESPONDING INLET DETAILS FOR APPROPRIATE STRUCTURE BOXOUTS. CONTRACTOR TO PROVIDE MANHOLE BOXOUTS PER ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
14. PAVING LUGS TO BE REQUIRED FOR PAVING SLOPE GREATER THAN 12%.

PAVEMENT GENERAL NOTES

1. ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING. FAILURE MAY RESULT IN OWNER DISCRETION TO REMOVE/REPLACE.
2. ALL DIMENSIONS TO BACK-OF-CURB UNLESS NOTED OTHERWISE.
3. REMOVE AND REPLACE OR RESTORE ALL STREET SIGNS, PAVEMENT MARKINGS, SIDEWALK LAMPS, SIDEWALKS, STEPS, LANDSCAPE STRUCTURES, CURB AND GUTTER, STREETS, DRIVES AND ALL OTHER SURFACE STRUCTURES REMOVED OR OTHERWISE DAMAGED DURING THE COURSE OF THE WORK. SIDEWALKS SHALL BE REMOVED AND REPLACED TO NEAREST JOINT BEYOND CONSTRUCTION AREA.
4. COMPACT SUBGRADE BENEATH PAVEMENTS IN ACCORDANCE WITH GRADING NOTES.
5. AGGREGATE SUBBASE FOR PAVEMENTS SHALL MEET ILLINOIS DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
6. PROOF-ROLL SUBGRADE PER SECTION 2115. REMOVE AND REPLACE UNSTABLE AREAS WITH SUITABLE COMPACTED MATERIAL. SEE GRADING NOTE #2.
7. ALL CURB AND GUTTER IS 6" STANDARD CURB UNLESS STATED OTHERWISE.
8. COMPACTION TESTING AND CONCRETE TESTING IS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING ALL TESTING AGENCIES AND IS TO COORDINATE WITH AXIOM CONSULTANTS ON TESTING RESULTS.
9. CERTIFIED PLANT INSPECTION IS REQUIRED AND SHALL BE PROVIDED BY THE CONTRACTOR.
10. NO PAVEMENT SMOOTHNESS TESTING WILL BE REQUIRED.

LEGEND:

UTILITIES	EXISTING	PROPOSED
COMMUNICATIONS	(CO)	CO
OVERHEAD LINE	(OH)	OH
ELECTRIC	(E)	E
FIBER OPTIC	(FO)	FO
GAS	(G)	G
SANITARY SEWER	(S)	SS
STORM	(ST)	ST
SUBDRAIN	(SD)	SD
WATER: DOMESTIC	(W)	W
COMM. HANDHOLE	C	C
COMM. PEDESTAL	C	C
GUY WIRE ANCHOR		
UTILITY POLE		
UTILITY POLE WITH LIGHT		
LIGHT POLE		
ELECTRIC TRANSFORMER	E	E
FIBER OPTIC HANDHOLE	FO	FO
GAS VALVE		
SANITARY MANHOLE	SS	
SANITARY CLEANOUT		
STORM MANHOLE	ST	
STORM INTAKE		
HYDRANT		
WATER VALVE		
CURB STOP		
WELL	W	W

SITE	EXISTING	PROPOSED
CONTOUR - INDEX	100	100
CONTOUR - INTERMEDIATE	101	100
FENCE: BARB WIRE		
FENCE: CHAIN LINK		
FENCE: CONSTRUCTION		
FENCE: VINYL		
FENCE: WIRE		
FENCE: WOOD		
STREAM CENTERLINE		
SIGN		
SHRUBBERY		SEE LANDSCAPE PLAN
TREE: DECIDUOUS		SEE LANDSCAPE PLAN
TREE: CONIFEROUS		SEE LANDSCAPE PLAN

ENGINEER:
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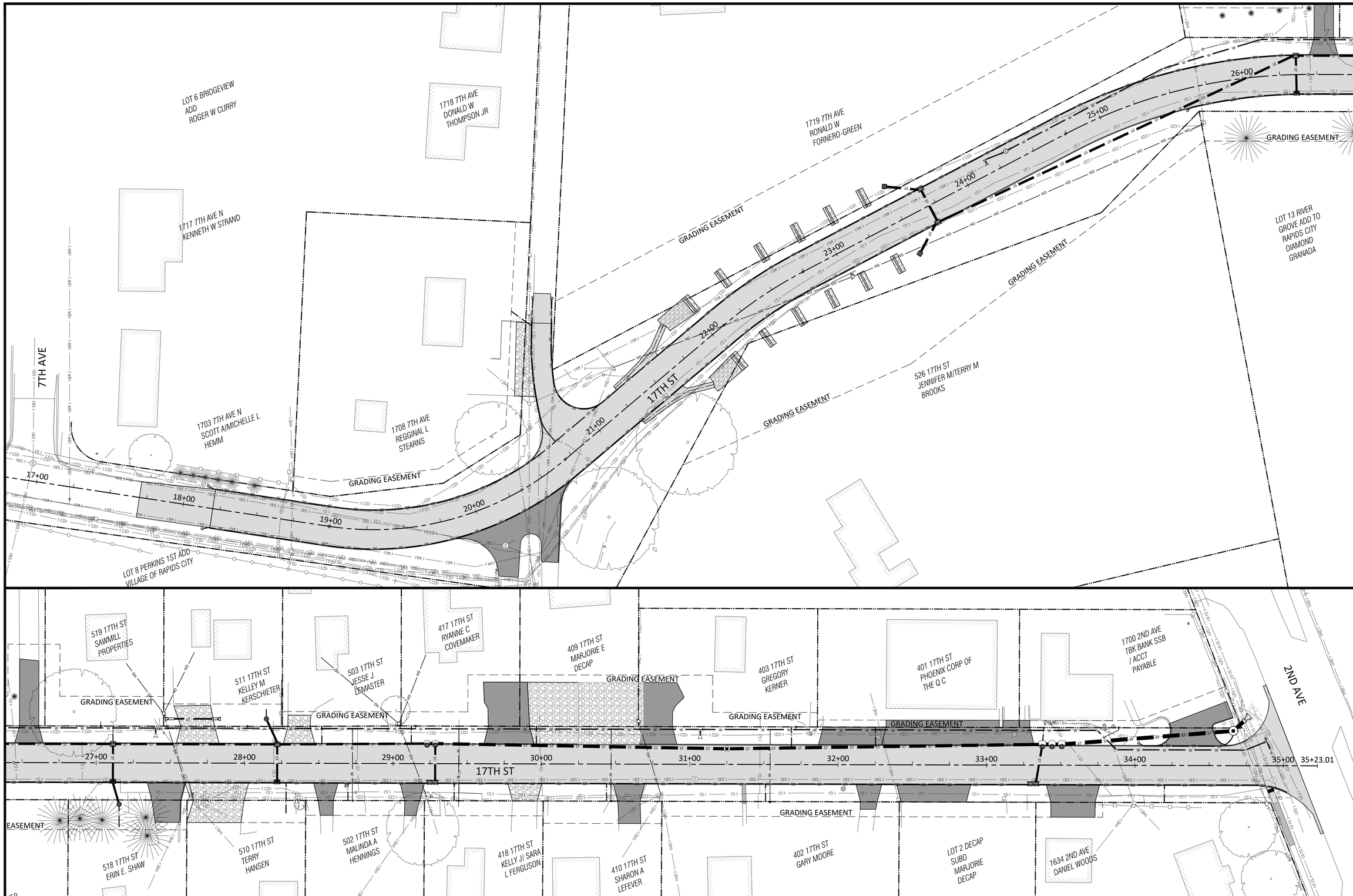
DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: LEGEND AND GENERAL NOTES
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: A.04



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REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

DRAWING LOG

PROJECT NAME: 17TH STREET RECONSTRUCTION

RAPIDS CITY, IL

CLIENT NAME: VILLAGE OF RAPIDS CITY

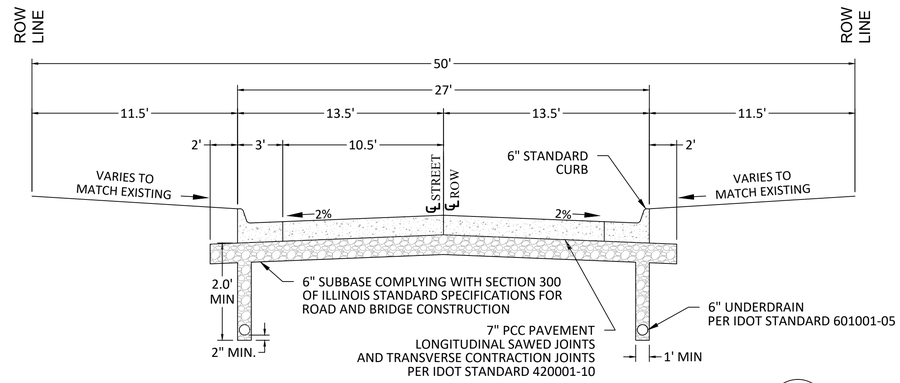
DESIGN PROFESSIONAL: BOELK

PROJECT NO.: 210237

SHEET NAME: OVERALL SITE

SHEET NUMBER: A.11

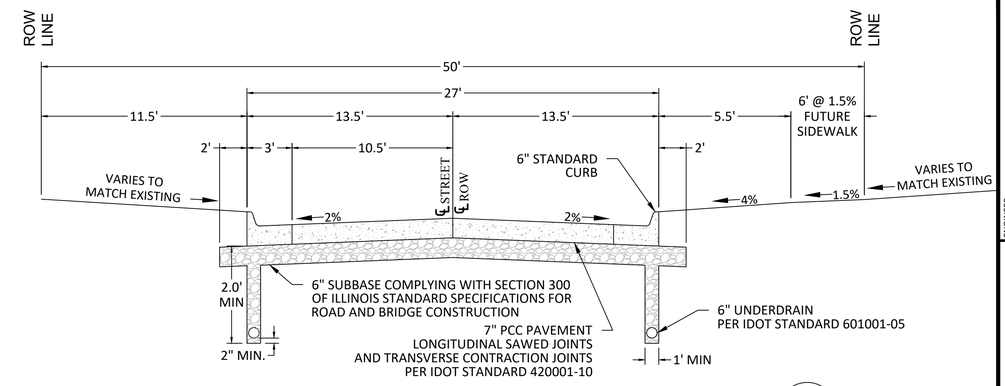
May 12, 2023 - 1:17pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-A SHEETS.dwg



TYPICAL ROADWAY SECTION

18+20 to 20+50

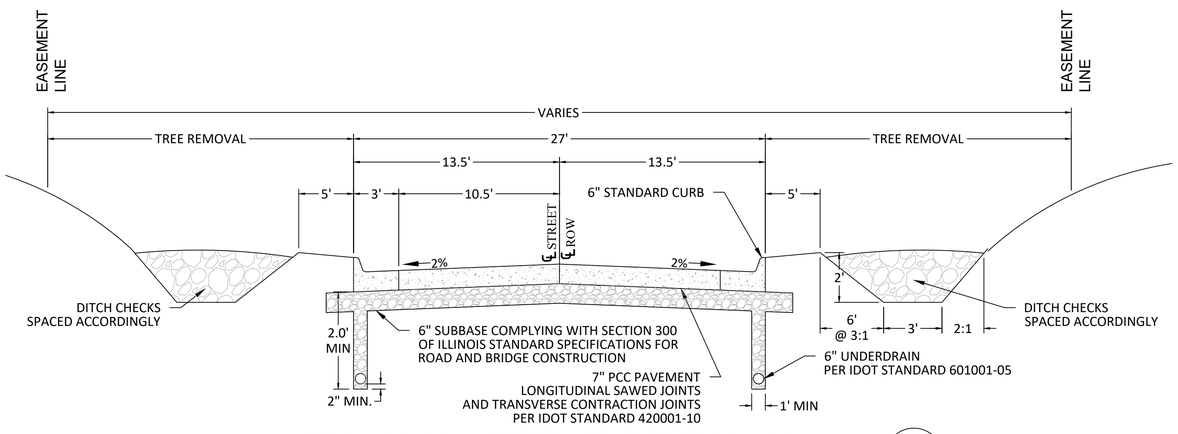
1



TYPICAL ROADWAY SECTION WITH FUTURE SIDEWALK

27+50 to 35+00

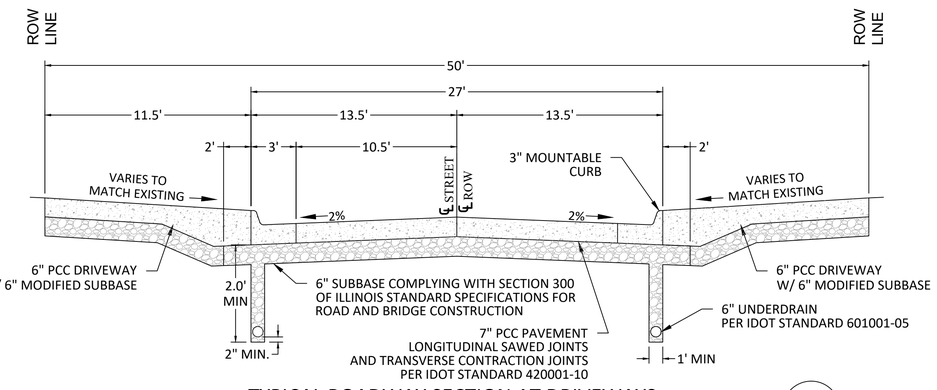
2



TYPICAL ROADWAY SECTION WITH DITCHES-HILL AREA

21+65 to 23+50

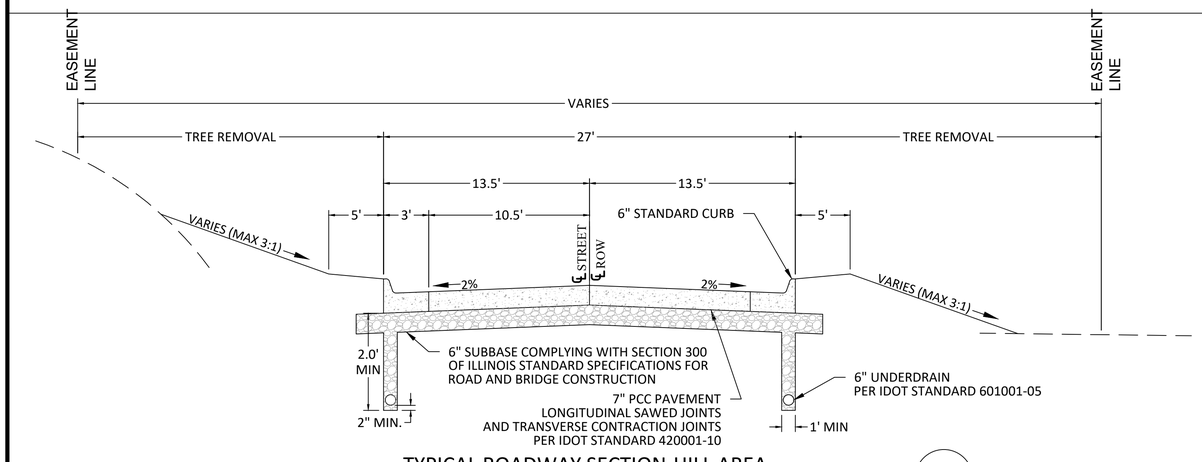
3



TYPICAL ROADWAY SECTION AT DRIVEWAYS

18+20 to 20+50

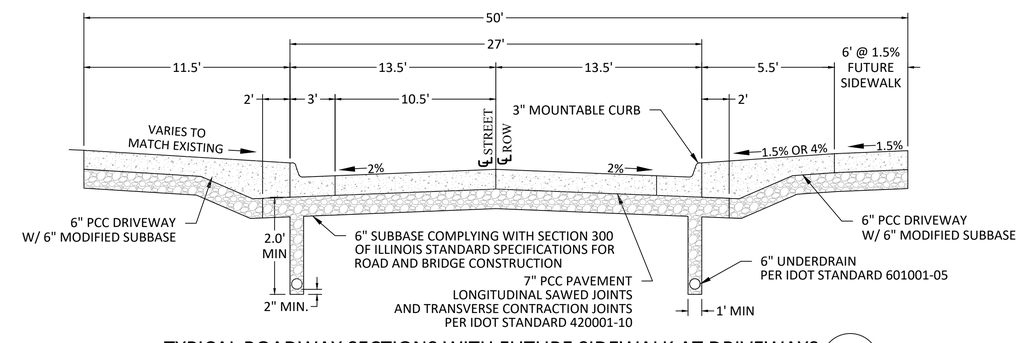
4



TYPICAL ROADWAY SECTION-HILL AREA

20+50 to 21+65 and 23+50 to 27+50

5



TYPICAL ROADWAY SECTIONS WITH FUTURE SIDEWALK AT DRIVEWAYS

27+50 to 35+00

6

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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION RAPIDS CITY, IL

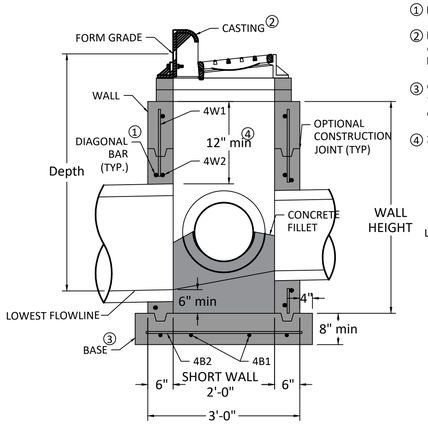
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: TYPICAL SECTIONS

DESIGN PROFESSIONAL: BOELK

PROJECT NO.: 210237

SHEET NUMBER: B.01



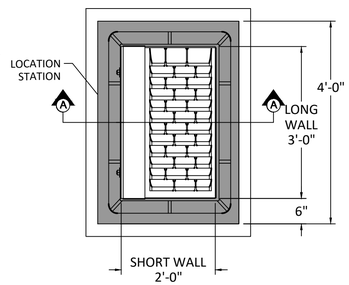
SECTION A-A

① Install four #4 diagonal bars at all pipe openings.

② Neenah R-3246-CL frame w/ adjustable curb box (unless noted otherwise on plans). Type "C" grate will be used in sag areas and type "L" grate will be used everywhere not in sag.

③ Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.

④ 12 inch minimum wall height above all pipes.



PLAN

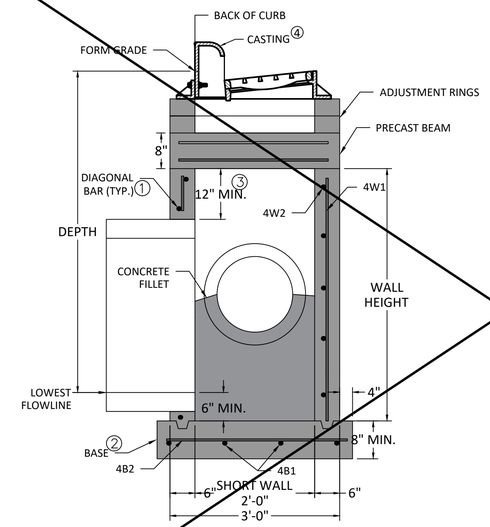
REINFORCING BAR LIST						
Mark	Size	Location	Shape	Length	Count	Spacing
4W1	4	Walls		Wall Height minus 4''	14	12''
4W2	4	Long Walls		3'-8''	Varies	12''
4w3	4	Short Walls		2'-8''	Varies	12''
4B1	4	Base		4'-2''	4	10''
4B2	4	Base		3'-2''	5	10''

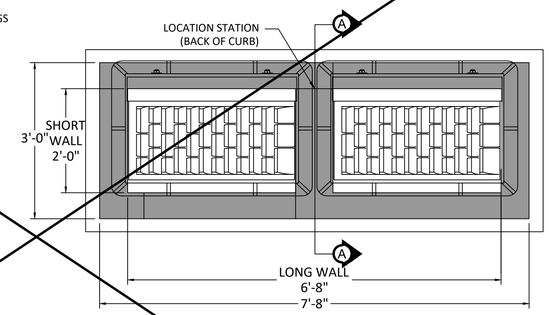
MAXIMUM PIPE DIAMETERS		
Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	15''	18''
Long Wall	24''	30''

SINGLE GRATE INTAKE - TYPE 501

NOT TO SCALE

1





① Install four #4 diagonal bars at all pipe openings.

② Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.

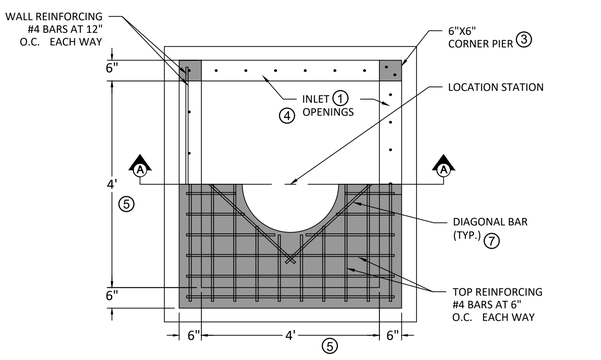
③ 12 inch minimum wall height above all pipes.

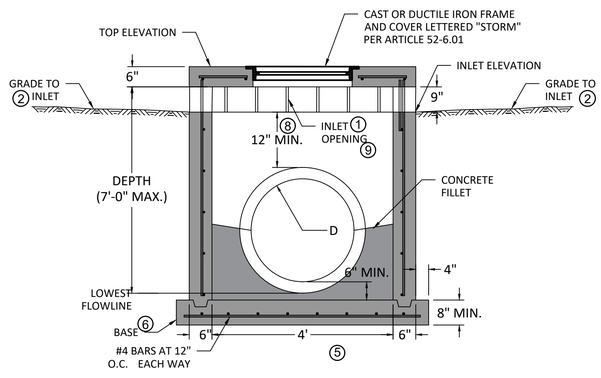
④ Neenah R-3246-CL frame w/ adjustable curb box (unless noted otherwise on plans). Type "C" grate will be used in sag areas and type "L" grate will be used everywhere not in sag.

DOUBLE GRATE INTAKE - TYPE 505

NOT TO SCALE

2





Structure may be built with openings on any or all sides. Provide openings and orientation as specified in the contract documents.

Adjacent walls may have different widths based upon pipe configuration, but structure must be rectangular.

① Construct inlet openings with 15-inch #4 epoxy-coated bars at 8 inches on center. Embed bars a minimum of 3 inches into walls and top at all openings.

② Grade to inlet elevation on open sides.

③ Corner pier required between openings of two adjacent walls. Extend wall reinforcing vertically through pier. Install one additional 15-inch #4 bar in pier.

④ Openings to be built on all 4 sides of structure.

⑤ Provide 6 inches of wall width (minimum) each side of pipe opening.

⑥ Cast-in-place base shown. If base is precast integral with walls, the footprint of base is not required to extend beyond the outer edge of the walls.

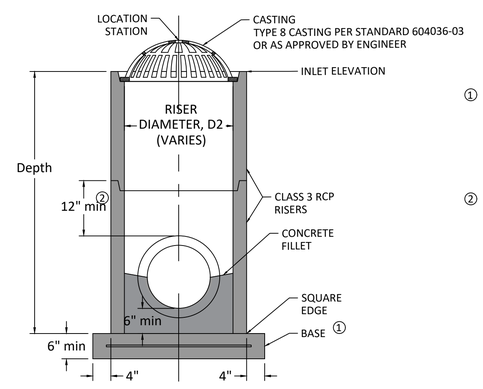
⑦ Install four #4 diagonal bars at all pipe openings.

⑧ 12" minimum wall height above all pipes.

OPEN-SIDED AREA INTAKE - TYPE 513

NOT TO SCALE

3



TYPICAL SECTION

① Precast (shown) or cast-in-place base:

Precast: 6 inch thick concrete with #6 welded wire mesh on 4 inch centers (WWF 4'' x 4'').
Center mesh vertically within base.

Cast-in-place: 8 inch thick non-reinforced concrete.

② 12 inch minimum riser height above all pipes.

INTAKE SIZE	
Outlet Pipe Diameter, D1	Minimum Riser Diameter, D2
12''	18''
15''	24''
18''	24''
21''	30''
24''	30''
27''	36''

CIRCULAR AREA INTAKE - TYPE 512

NOT TO SCALE

4

ENGINEER:
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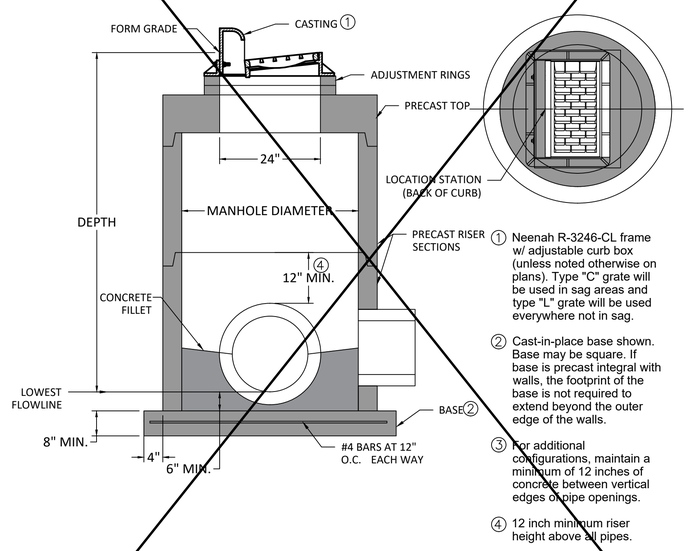
DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: CONSTRUCTION DETAILS STORM STRUCTURES
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: B.02



① Neenah R-3246-CL frame w/ adjustable curb box (unless noted otherwise on plans). Type "C" grate will be used in sag areas and type "L" grate will be used everywhere not in sag.

② Cast-in-place base shown. Base may be square. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.

③ For additional configurations, maintain a minimum of 12 inches of concrete between vertical edges of pipe openings.

④ 12 inch minimum riser height above all pipes.

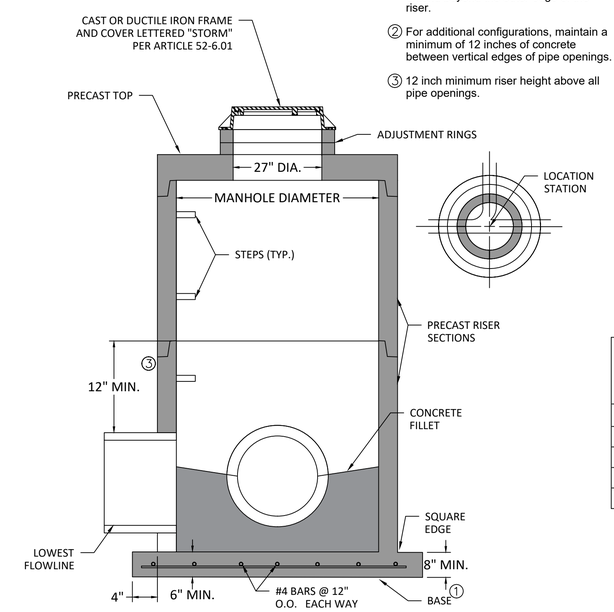
CIRCULAR SINGLE GRATE INTAKE - TYPE 502 — 1

NOT TO SCALE

① Cast-in-place base shown. If base is precast integral with bottom riser, the footprint of the base is not required to extend beyond the outer edge of the riser.

② For additional configurations, maintain a minimum of 12 inches of concrete between vertical edges of pipe openings.

③ 12 inch minimum riser height above all pipe openings.



Manhole Diameter (inches)	Maximum Pipe Diameter② (inches) for 2 Pipes	
	At 180° Separation	At 90° Separation
48	24	18
60	36	24
72	42	30
84	48	36
96	60	42

STORM SEWER MANHOLE - TYPE 401 — 2

NOT TO SCALE

ENGINEER:
AXIOM CONSULTANTS
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

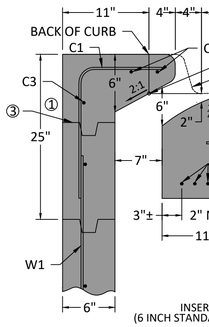
CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
CONSTRUCTION DETAILS
STORM STRUCTURES

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

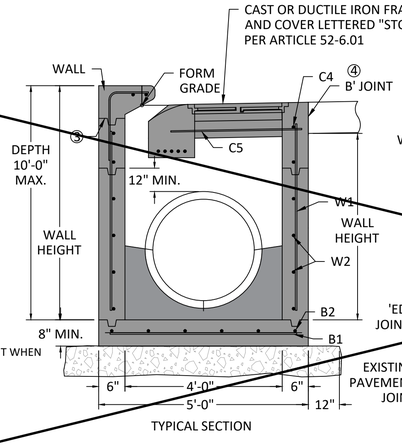
SHEET NUMBER:
B.03



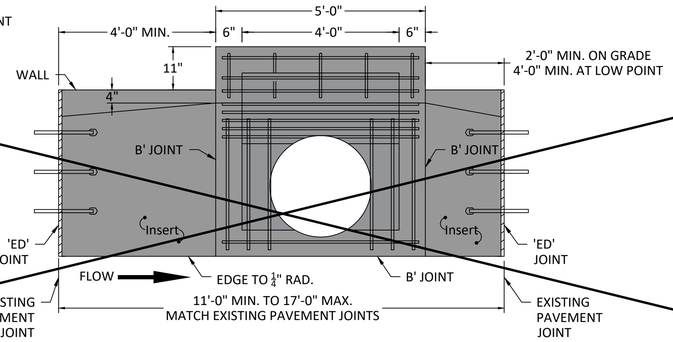
① 39 INCHES WHEN ATTACHING THE 542 EXTENSION UNIT.

② 37 INCHES WHEN ATTACHING THE 542 EXTENSION UNIT.

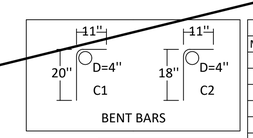
③ ADDITIONAL KEYED CONSTRUCTION JOINT WHEN ATTACHING THE 542 EXTENSION UNIT.



TYPICAL SECTION



PLAN



BENT BARS

MAXIMUM PIPE DIAMETER	
Precast	30"
Cast-in-Place	36"

REINFORCING BAR LIST					
Mark	Size	Location	Shape	Length	Spacing
B1	4	Base	——	4'-6"	11"
B2	4	Base	——	4'-6"	11"
W1	4	Wall	——	Wall Height -4"	14"
W2	4	Wall	——	4'-8"	12"
C1	4	Top	⌒	2'-7"	14"
C2	4	Top	⌒	2'-5"	14"
C3	4	Top	——	4'-8"	See Detail
C4	4	Top	——	4'-8"	See Detail
C5	4	Top	——	3'-2"	See Detail

③ Additional keyed construction joint when attaching the 542 extension unit.

④ Top of well flush with pavement.

OPEN-THROAT CURB INTAKE UNDER PAVEMENT - TYPE 541

NOT TO SCALE

1

EXTENSION UNIT MAY BE USED ON EITHER OR BOTH SIDES OF 541 INTAKES. DETAILS ARE SIMILAR WHEN EXTENSION UNIT IS ON THE OPPOSITE SIDE.

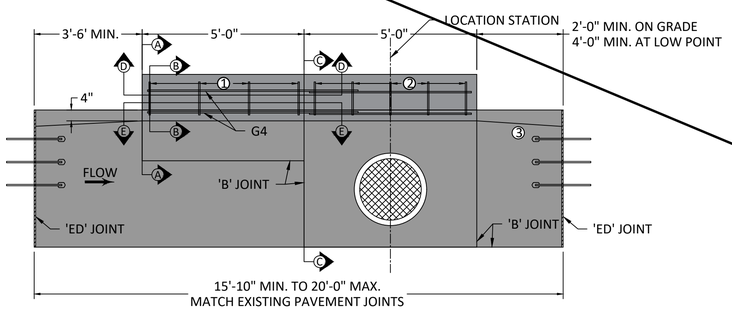
① G3 FOR 6 INCH STANDARD CURB.

② C1 FOR 6 INCH STANDARD CURB. SEE 541 FOR REINFORCING.

③ THE LOCATION STATION IS WHERE THE CENTERLINE OF INTAKE MEETS THE BACK OF THE CURB LINE.

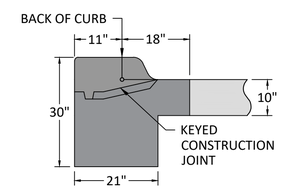
④ 2:1 SLOPE (HORIZONTAL:VERTICAL)

⑤ SEE 541 FOR REINFORCING.

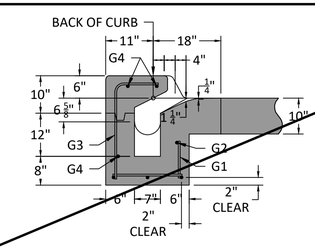


PLAN

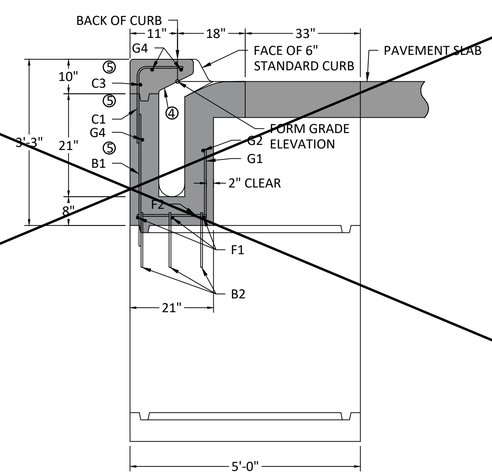
EXTENSION AND OPEN-THROAT CURB INTAKE UNDER PAVEMENT



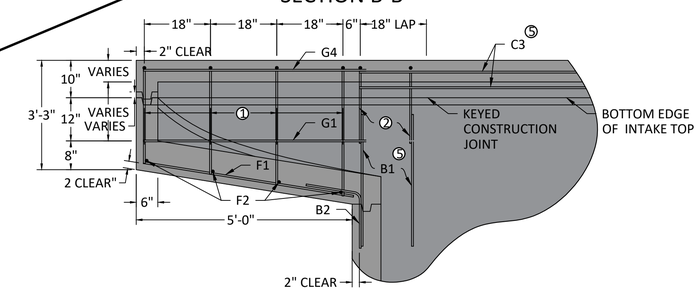
SECTION A-A



SECTION B-B



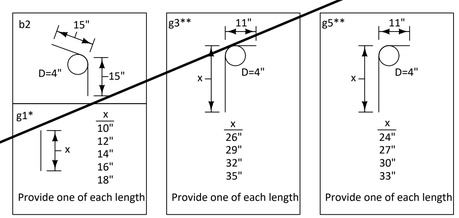
SECTION C-C

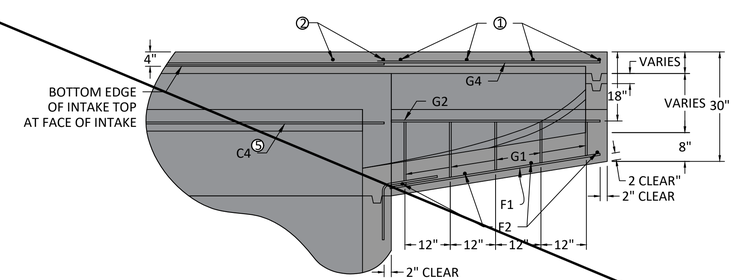


SECTION D-D

Placing sequence: 1. Base; 2. Walls and Extension; 3. Top; 4. Insert

REINFORCING BAR LIST							
BAR	SIZE	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	SPACING
b2	4	Intake Wall	⌐	3	2'-6"	5.0	9"
f1	4	Bottom	——	3	4'-9"	9.5	9"
f2	4	Bottom	——	4	1'-7"	4.2	18"
g1	4	Wall	——	5	Varies*	Varies*	12"
g2	4	Wall	——	1	4'-8"	3.1	-
g3	4	Top	⌐	4	Varies**	Varies**	18"
g4	4	Top	——	3	6'-4"	12.7	-
g5	4	Top	⌐	4	Varies**	Varies**	18"





SECTION E-E

542 EXTENSION UNIT FOR OPEN-THROAT CURB INTAKE UNDER PAVEMENT

NOT TO SCALE

2

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PROJECT NAME: 17TH STREET RECONSTRUCTION RAPIDS CITY, IL

CLIENT NAME: VILLAGE OF RAPIDS CITY

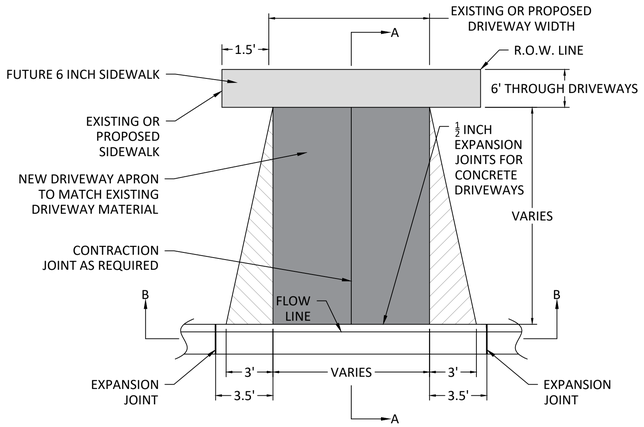
SHEET NAME: CONSTRUCTION DETAILS STORM STRUCTURES

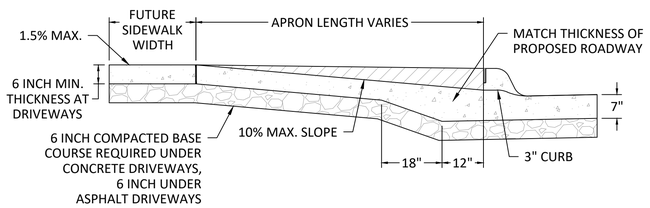
DESIGN PROFESSIONAL: BOELK

PROJECT NO.: 210237

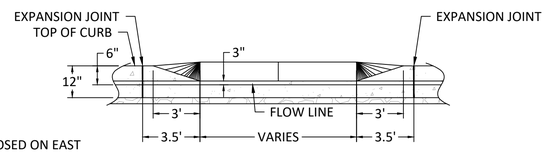
SHEET NUMBER: B.04

May 12, 2023 - 1:17pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-B SHEETS.dwg





SECTION A-A



SECTION B-B

NOTE:

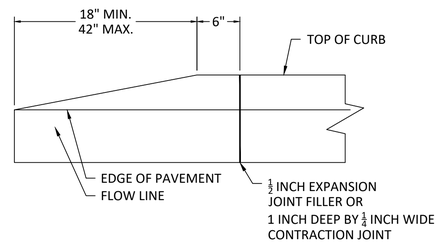
FUTURE SIDEWALK PROPOSED ON EAST SIDE OF STREET ONLY.

WEST SIDE SHALL BEGIN TAPER AND AT R.O.W.

DRIVEWAY DETAIL

NOT TO SCALE

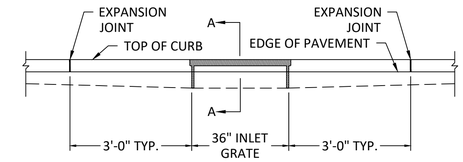
1

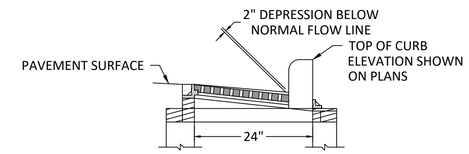


CURB END DETAIL

NOT TO SCALE

2





SECTION A-A

CURB AND GUTTER AT INLETS DETAILS

NOT TO SCALE

3

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DRAWING LOG

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME: VILLAGE OF RAPIDS CITY

DESIGN PROFESSIONAL: BOELK

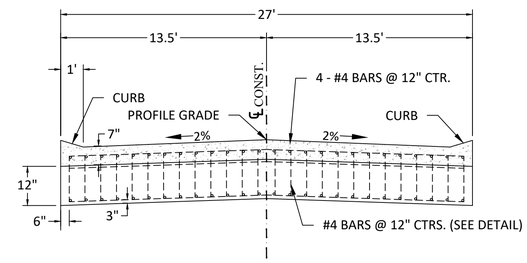
PROJECT NO.: 210237

SHEET NAME: CONSTRUCTION DETAILS

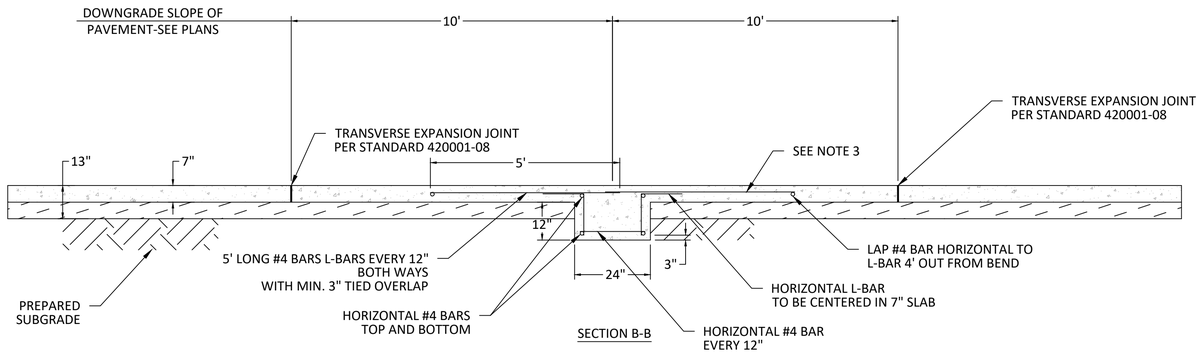
SHEET NUMBER: B.05

GENERAL NOTES:

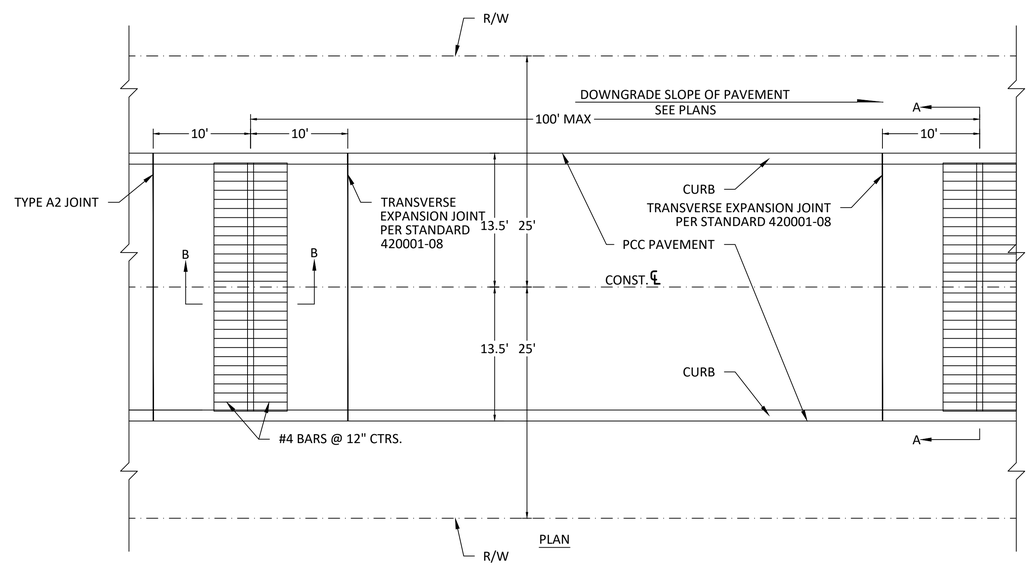
1) DO NOT SCALE DRAWING, FOLLOW DIRECTION.
2) PAVEMENT LUGS SHOWN ARE FOR A 27 FEET WIDE PAVEMENT. WHEN REQUIRED ON PAVEMENT NARROWER OR WIDER THAN 27 FEET, DETAILS ARE SIMILAR.
3) LUG STIRRUPS TO BE SHOP BENT. 90 DEGREE BENDS PER CRSI (CURRENT MANUAL OF STANDARD PRACTICE). FIELD BENDING WILL NOT BE PERMITTED.
4) LUG STIRRUPS TO BE SUPPORTED ON CHAIRS OR CONCRETE BLOCK TO ENSURE PROPER PLACEMENT OF THE STEEL.
5) PAVEMENT LUG TO BE CONSTRUCTED MONOLITHICALLY WITH PAVEMENT AND VIBRATED.
6) ALL REINFORCING BARS SHALL BE EPOXY COATED, GRADE 60, IN ACCORDANCE WITH STANDARD SPECIFICATION MANUAL, SECTION 1036.
7) LOCATIONS OF PAVING LUGS TO BE EVERY 100 LF STARTING AT STA 21+00 AND ENDING AT 28+00.



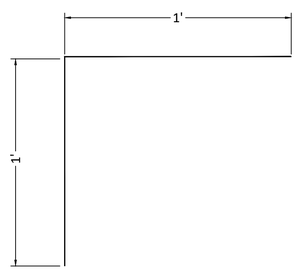
SECTION A-A



SECTION B-B



PLAN



LUG STIRRUP BENDING DIAGRAM

PAVEMENT LUGS

NOT TO SCALE

1

ENGINEER:
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PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: CONSTRUCTION DETAILS
PROJECT NO.: 210237
DESIGN PROFESSIONAL: BOELK
SHEET NUMBER: B.06

May 12, 2023 - 1:17pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-B SHEETS.dwg

ESTIMATED PROJECT QUANTITIES

Item No.	Item Code	Item	Unit	Quantities
				Estimated
1	20100500	TREE REMOVAL, ACRES	ACRE	0.8
2	20200100	EARTH EXCAVATION	CY	2,560
3	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CY	570
4	25000XXX	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING-CLASS 1	ACRE	1.4
5	25100630	EROSION CONTROL BLANKET	SY	2,840
6	28000315	AGGREGATE DITCH CHECK	EACH	12
7	28000400	PERIMETER EROSION CONTROL	LF	1,444
8	28000400	FILTER SOCK, 9"	LF	0
9	28000500	INLET AND PIPE PROTECTION	EACH	18
10	28000XXX	FILTER SOCKS, REMOVAL	LF	0
11	28100XXX	RR-4 REVETMENT	TON	66
12	30103000	SHAPING AND GRADING ROADWAY	UNIT	19
13	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CY	200
14	35101600	AGGREGATE BASE COURSE, TYPE B 4" (SIDEWALK)	TON	6
15	35101800	AGGREGATE BASE COURSE, TYPE B 6" (CONCRETE DRIVEWAY)	TON	274
16	35101800	AGGREGATE BASE COURSE, TYPE B 6" (STREET)	TON	1,827
17	40200500	AGGREGATE SURFACE COURSE, TYPE A 6" (GRANULAR DRIVEWAY)	TON	195
18	42000201	PORTLAND CEMENT CONCRETE PAVEMENT 7" (JOINTED)	SY	5,306
19	35101800	AGGREGATE BASE COURSE, TYPE B 8" (HMA DRIVES AND TRANSITIONS)	TON	0
20	35501295	HOT-MIX ASPHALT BASE COURSE 3.5" (HMA DRIVES AND TRANSITIONS)	TON	0
21	40604062	HOT-MIX ASPHALT SURFACE COURSE 2", IL-9.5, MIX "D", N70 (HMA DRIVES AND TRANSITIONS)	TON	0
22	42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6"	SY	1,607
23	42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4"	SY	17
24	42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6"	SY	5
25	42400800	DETECTABLE WARNINGS	SF	8
26	44000100	PAVEMENT REMOVAL	SY	5,005
27	44000200	DRIVEWAY PAVEMENT REMOVAL	SY	1,345
28	44000600	SIDEWALK REMOVAL	SY	17
29	50105220	PIPE CULVERT REMOVAL	LF	1,406
30	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12", TYPE 2	EACH	2
31	54214929	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ARCH, EQUIVALENT ROUND SIZE 24", TYPE 2	EACH	1
32	54248130	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND SIZE 24", TYPE 2	EACH	1
33	550A0350	STORM SEWER, TRENCHED, RCP, 12", TYPE 2	LF	38
34	550A0360	STORM SEWER, TRENCHED, RCP, 15", TYPE 2	LF	263
35	550A0380	STORM SEWER, TRENCHED, RCP, 18", TYPE 2	LF	970
36	550A4900	STORM SEWER, TRENCHED, ARCHED RCP, 18" X 28.5", TYPE 2	LF	146
37	56100600	WATER MAIN 6"	LF	1,107
38	56104900	WATER VALVES 6"	EACH	5
39	56107100	WATER MAIN REMOVAL, 6"	LS	1
40	56108800	TAPPING VALVES AND SLEEVES 6"	EACH	3
41	56109210	WATER VALVES TO BE ADJUSTED	EACH	1
42	56200300	WATER SERVICE LINE 1"	LF	328
43	56201400	CORPORATION STOPS 1"	EACH	16
44	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	3
45	56400700	FIRE HYDRANT AND VALVE (SPECIAL)	EACH	2
46	56500800	DOMESTIC WATER SERVICE BOXES	EACH	16
47	60108106	PIPE UNDERDRAINS, TYPE 1, 6" PVC	LF	2,537
48	60108XXX	UNDERDRAIN OUTLET	EACH	18
49	60108XXX	UNDERDRAIN SERVICE, 6" PVC, INCLUDING 6" WYE	LF	194
50	60200XXX	MANHOLE, STORM TYPE 401, 48"	EACH	1

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PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: ESTIMATED ROADWAY QUANTITIES
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: C.01

ESTIMATED PROJECT QUANTITIES

Item No.	Item Code	Item	Unit	Quantities Estimated
51	60200XXX	MANHOLE, STORM TYPE 401, 72"	EACH	1
52	60200XXX	INTAKE, TYPE 501	EACH	3
53	60200XXX	INTAKE, 30" x 36" RECTANGULAR	EACH	5
54	60200XXX	INTAKE, 24" x 84" RECTANGULAR	EACH	2
55	60200XXX	INTAKE, TYPE 512, 24"	EACH	2
56	60200XXX	INTAKE, TYPE 512, 30"	EACH	0
57	60200XXX	INTAKE,TYPE 513	EACH	2
58	60200XXX	INTAKE, TRIPLE 501	EACH	2
59	60300350	MANHOLE FRAMES TO BE ADJUSTED	EACH	4
60	60500040	REMOVING MANHOLES	EACH	11
61	60500050	REMOVING CATCH BASINS	EACH	1
62	60602500	CONCRETE GUTTER, TYPE A	LF	110
63	66900200	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1
64	67100100	MOBILIZATION	LS	1
65	70100XXX	TEMPORARY TRAFFIC CONTROL	LS	1
66	M2800250	TEMPORARY SEEDING, FERTILIZING, AND MULCHING-CLASS 7	ACRE	0.0
67	X0326806	CONCRETE WASHOUT	LS	1
68	Z0045452	PRESSURE REDUCING VALVE 6" WITH VAULT	EACH	1
69	Z0051500	REMOVING AND RESETTING STREET SIGNS	EACH	9
70		PAVEMENT LUGS	EACH	8

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RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NAME: ESTIMATED ROADWAY QUANTITIES
SHEET NUMBER: C.02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1	20100500	**TREE REMOVAL, ACRES**
		SEE DEMOLITION R-SHEETS FOR LOCATIONS. ALL DESIRABLE TREES OUTSIDE OF THE CONSTRUCTION AREA WILL BE SAVED AND SHALL BE PROTECTED AS NECESSARY. TREES AND SHRUBS WITHIN THE CONSTRUCTION LIMITS THAT DO NOT HINDER CONSTRUCTION SHALL BE SAVED UNLESS DIRECTED BY THE ENGINEER TO BE REMOVED. ITEM INCLUDES EARTHWORK ASSOCIATED WITH CLEAN-UP SUCH THAT NO HOLES, RILLS, RUTS, OR CREVASSES REMAIN WHERE GRUBBING OCCURS. CONTRACTOR TO PROVIDE 2 WEEKS NOTICE TO PROPERTY OWNERS, ENGINEER AND VILLAGE OF RAPIDS CITY BEFORE CLEARING AND GRUBBING OPERATIONS.
2	20200100	**EARTH EXCAVATION**
		THE VOLUME OF EXISTING PAVEMENT AND TOPSOIL REMOVAL/REPLACEMENT WAS SUBTRACTED FROM THE EXCAVATION VOLUME AND IS NOT INCLUDED IN THIS QUANTITIY. A 6" DEPTH WAS USED TO CALCULATE THE PAVEMENT VOLUME. ANY EXISTING ROCK AND DEPTH OF SUCH ROCK BENEATH EXISTING PAVEMENTS IS UNKNOWN. IF ANY SUCH ROCK IS ENCOUNTERED IT SHALL BE INCLUDED IN CLASS 10 EXCAVATION. THIS ITEM WILL BE PAID PER PLAN QUANTITY. ALL EARTH EXCAVATION MOVED TO OR WITHIN THIS PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM. THE CONTRACTOR IS RESPONSIBLE FOR WASTING ANY UNSUITABLE OR EXCESS MATERIAL. MOISTURE SHALL BE APPLIED, AS NECESSARY, TO HELP PREVENT THE SPREAD OF DUST NEAR RESIDENTIAL AREAS AND INDIVIDUAL HOMES. BASE BID: QUANTITY OF ROADWAY EXCAVATION IS 1,680 CY CUT AND 2,015 CY FILL (30% SHRINKAGE). ALTERNATE BID: QUANTITY OF ROADWAY EXCAVATION IS 2,560 CY CUT AND 1,875 CY FILL (30% SHRINKAGE).
3	21101505	**TOPSOIL EXCAVATION AND PLACEMENT**
		TOPSOIL EXCAVATION AND PLACEMENT WILL BE REQUIRED ON THIS PROJECT. QUANTITY PERTAINS TO WORK WITHIN THE PROJECT LIMITS. TOPSOIL SHALL BE REMOVED AND PROTECTED FROM OTHER MATERIALS ON SITE. TOPSOIL SHALL BE SPREAD UNIFORMLY (MIN. 6" DEPTH) OVER ALL AREAS THAT ARE NOT COVERED BY PAVEMENT OR GRANULAR MATERIAL. AREAS SHALL BE UNDERCUT PRIOR TO PLACING TOPSOIL. CROSS SECTIONS SHOW FINISHED GRADELINE. THE CONTRACTOR IS TO FAMILIARIZE THEMSELVES WITH ILLINOIS LAW AS IT PERTAINS TO REMOVAL AND REPLACEMENT OF TOPSOIL WITHIN THE PROJECT AREA. CONTRACTOR SHALL BE PAID PLAN QUANTITIES UNLESS ADJUSTED FOR ERRORS OR AUTHORIZED CHANGES. CONTRACTOR SHALL NOTE THE QUALITY AND QUANTITY OF TOPSOIL IN WRITING TO THE ENGINEER AT THE TIME OF REMOVAL IF THE TOPSOIL IS NOT SUITABLE FOR USE.
4	25000XXX	**HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING - CLASS 1**
		SEE GENERAL NOTES FOR SEEDING DETAILS. SEED ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES. ITEM MEASURED AND PAID PER ACRE OF HYDROSEED APPLIED.
5	25100630	**EROSION CONTROL BLANKET**
		SEE U-SHEETS FOR LOCATIONS. BID ITEM WILL BE MEASURED AND PAID PER SQUARE YARD INSTALLED PROPERLY.
6	28000315	**AGGREGATE DITCH CHECK**
		ITEM TO BE CONSTRUCTED ACCORDING TO IL-605R. QUANTITY CALCULATED FOR EACH DITCH CHECK IS 12.8 TONS OF RIP RAP AND 4.2 TONS OF COURSE AGGREGATE.
7	28000400	**PERIMETER EROSION CONTROL**
		SEE C-SHEETS FOR LOCATIONS AND TABULATIONS. ITEM TO BE MEASURED AND PAID PER LINEAR FOOT OF PROPERLY INSTALLED FENCING OR FILTER SOCK. CONTRACTOR TO PLACE FENCING OR FILTER SOCK AT SPECIFIED LOCATIONS, AROUND ALL STOCKPILED MATERIAL, AROUND ALL DRAINAGE AREAS, AND AS DIRECTED BY THE ENGINEER. PAY ITEM INCLUDES INSTALLATION, MAINTENANCE, AND REMOVAL.
8	28000400	**FILTER SOCK, 9"**
		ITEM TO BE MEASURED AND PAID PER LINEAR FOOT OF PROPERLY INSTALLED FILTER SOCK. CONTRACTOR TO PLACE SOCK AT SPECIFIED LOCATIONS, AROUND ALL STOCKPILED MATERIAL, AROUND ALL DRAINAGE AREAS, AND AS DIRECTED BY THE ENGINEER. SEE C-SHEETS FOR LOCATIONS AND TABULATIONS.
9	28000500	**INLET AND PIPE PROTECTION**
		SEE C-SHEETS FOR LOCATIONS AND TABULATIONS. ITEM IS MEASURED AND PAID PER EACH PROPERLY INSTALLED SEDIMENT FILTER. PAY ITEM INCLUDES INSTALLATION, MAINTENANCE, AND REMOVAL.
10	28000XXX	**FILTER SOCKS, REMOVAL**
		ITEM TO BE MEASURED AND PAID PER LINEAR FOOT LENGTH OF FILTER SOCK PROPERLY REMOVED. SEE C-SHEETS FOR LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL SILT FENCES PRIOR TO FULL ACCEPTANCE OF PROJECT.
11	28100XXX	**RR-4 REVETMENT**
		SEE C-SHEETS FOR TABULATIONS WITH LOCATIONS AND ESTIMATE OF QUANTITIES. ITEM SHALL INCLUDE RR-4 REVETMENT AND ENGINEERING FABRIC IF SPECIFIED BY ENGINEER.
12	30103000	**SHAPING AND GRADING ROADWAY**
		BID ITEM IS TO PAY FOR THE EXCAVATING, MANIPULATING, REPLACING, COMPACTING, AND TRIMMING OF SUBGRADE TO THE PROPER GRADE PER D-SHEETS AND W-SHEETS. UNIT IS 100 FOOT LONGITUDINAL INTERVAL.
13	30300001	**AGGREGATE SUBGRADE IMPROVEMENT**
		BID ITEM IS TO PAY FOR THE REMOVAL OF UNSUITABLE OR UNSTABLE MATERIAL DISCOVERED DURING CONSTRUCTION PROCEDURES. CORE-OUT DEPTHS AND AREAS SHALL BE DETERMINED BY THE ENGINEER AFTER EVALUATION OF A PROOF ROLL OR RECOMMENDATIONS FROM A GEOTECHNICAL COMPANY. ITEM WILL BE MEASURED AND PAID FOR PER CUBIC YARD OF MATERIAL REMOVED. ITEM TO BE USED AT THE DISCRETION OF THE ENGINEER.
14	35101600	**AGGREGATE BASE COURSE, TYPE B 4" (SIDEWALK)**
		SEE B-SHEETS FOR TYPICAL CROSS SECTIONS. SEE C-SHEET FOR LOCATIONS AND QUANTITIES. QUANTITY MAY BE ADJUSTED FOR OBVIOUS ERRORS, AUTHORIZED CHANGES, OR WORK NOT IN SUBSTANTIAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
15	35101800	**AGGREGATE BASE COURSE, TYPE B 6" (CONCRETE DRIVEWAY)**
		SEE B-SHEETS FOR TYPICAL CROSS SECTIONS. SEE C-SHEET FOR LOCATIONS AND QUANTITIES. QUANTITY MAY BE ADJUSTED FOR OBVIOUS ERRORS, AUTHORIZED CHANGES, OR WORK NOT IN SUBSTANTIAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
16	35101800	**AGGREGATE BASE COURSE, TYPE B 6" (STREET)**
		SEE B-SHEETS FOR TYPICAL CROSS SECTIONS. SEE C-SHEET FOR LOCATIONS AND QUANTITIES. QUANTITY MAY BE ADJUSTED FOR OBVIOUS ERRORS, AUTHORIZED CHANGES, OR WORK NOT IN SUBSTANTIAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-1VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NAME: ESTIMATE REFERENCE INFORMATION
SHEET NUMBER: C.03

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
17	**40200500**	**AGGREGATE SURFACE COURSE, TYPE A 6" (GRANULAR DRIVEWAY)**
		SEE C-SHEETS AND D-SHEETS FOR PLAN AND QUANTITIES.
18	**42000201**	**PORTLAND CEMENT CONCRETE PAVEMENT 7" (JOINTED)**
		SEE B-SHEETS FOR TYPICAL SECTIONS, SEE D-SHEETS FOR PAVING PLAN AND PROFILE, AND SEE W-SHEETS FOR CROSS SECTIONS. ITEM INCLUDES INTEGRAL CURBS, STEEL REINFORCING, JOINT CUTTING AND JOINT SEALING. ALL LONGITUDINAL PAVEMENT JOINTS SHALL BE CLEANED AND SEALED. NO PAVEMENT SMOOTHNESS TESTING WILL BE REQUIRED. CONTRACTOR TO SUBMIT MATURITY CURVE FOR APPROVAL. ITEM WILL BE MEASURED AND PAID PER SQUARE YARD PLACED.
19	**35101800**	**AGGREGATE BASE COURSE, TYPE B 8" (HMA DRIVES AND TRANSITIONS)**
		ITEM INCLUDES AGGREGATE MATERIAL AND PLACEMENT TO SERVE AS SUBBASE TO ALL HMA DRIVEWAYS AND TRANSITION AREAS AS NOTED IN THE PLANS.
20	**35501295**	**HOT-MIX ASPHALT BASE COURSE 3.5" (HMA DRIVES AND TRANSITIONS)**
		ITEM INCLUDES HOT MIX ASPHALT MATERIALS AND PLACEMENT OF BASE COURSE FOR ALL DRIVEWAYS AND TRANSITION AREAS AS NOTED IN THE PLANS.
21	**40604062**	**HOT-MIX ASPHALT SURFACE COURSE 2", IL-9.5, MIX "D", N70 (HMA DRIVES AND TRANSITIONS)**
		ITEM INCLUDES HOT MIX ASPHALT MATERIALS AND PLACEMENT OF SURFACE COURSE FOR ALL DRIVEWAYS AND TRANSITION AREAS AS NOTED IN THE PLANS.
22	**42300200**	**PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6"**
		SEE C-SHEETS AND D-SHEETS FOR PLAN AND QUANTITIES. SEE W-SHEETS FOR CROSS SECTIONS. ITEM INCLUDES SIDEWALK QUANTITIES THAT FALL WITHIN THE LIMITS OF THE DRIVEWAY. REFER TO GENERAL NOTES "COLD WEATHER PAVING" FOR BLANKETING. BID ITEM TO BE MEASURED AND PAID IN SQUARE YARDS PLACED.
23	**42400100**	**PORTLAND CEMENT CONCRETE SIDEWALK 4"**
		SEE C-SHEETS AND D-SHEETS FOR PLAN AND QUANTITIES. SEE S-SHEETS FOR SIDEWALK DESIGN AND ADA COMPLIANCE. JOINT CUTTING AND EXPANSION JOINTS ARE INCIDENTAL TO THIS BID ITEM. REFER TO GENERAL NOTES "COLD WEATHER PAVING" FOR BLANKETING. BID ITEM TO BE MEASURED AND PAID IN SQUARE YARDS PLACED.
24	**42400300**	**PORTLAND CEMENT CONCRETE SIDEWALK 6"**
		SEE C-SHEETS AND D-SHEETS FOR PLAN AND QUANTITIES. SEE S-SHEETS FOR SIDEWALK DESIGN AND ADA COMPLIANCE. JOINT CUTTING AND EXPANSION JOINTS ARE INCIDENTAL TO THIS BID ITEM. REFER TO GENERAL NOTES "COLD WEATHER PAVING" FOR BLANKETING. BID ITEM TO BE MEASURED AND PAID IN SQUARE YARDS PLACED.
25	**42400800**	**DETECTABLE WARNINGS**
		DETECTABLE WARNING ARE TO BE INSTALLED AT ALL SIDEWALK CROSSINGS. SEE D-SHEETS FOR PLAN, SEE S-SHEETS FOR SIDEWALK DESIGN AND ADA COMPLIANCE. DETECTABLE WARNINGS ARE TO BE MADE OF RED POLYMER MATERIAL. BID ITEM WILL BE MEASURED AND PAID FOR IN SQUARE FEET OF DETECTABLE WARNING INSTALLED.
26	**44000100**	**PAVEMENT REMOVAL**
		SEE C-SHEET TABULATIONS AND DEMOLITION R-SHEETS FOR REMOVAL LOCATIONS. CONTRACTOR IS CAUTIONED TO EXERCISE EXTREME CARE WHEN PERFORMING ANY OF THE NECESSARY SAW CUTTING OPERATIONS FOR THE PROPOSED PAVEMENT REMOVAL. SAW CUTS ARE TO BE MADE AT THE STATION INDICATED. UPON ENGINEER APPROVAL, SAW CUTS CAN BE MADE TO THE NEAREST JOINT. BID ITEM INCLUDES REMOVAL OF AGGREGATE SUBBASE, HMA, AND/OR PCC PAVEMENT ENCOUNTERED WITHIN THE SPECIFIED REMOVAL AREAS. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF PAVEMENTS AT A DISPOSAL SITE ACQUIRED BY THE CONTRACTOR, AND NOTED BY ENGINEER. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT PAVEMENT DURING CONSTRUCTION AND WILL REPAIR DAMAGED PAVEMENT AT NO EXTRA COST. ITEM WILL BE MEASURED AND PAID PER SQUARE YARD OF PAVEMENT REMOVED.
27	**44000200**	**DRIVEWAY PAVEMENT REMOVAL**
		SEE C-SHEET TABULATIONS AND DEMOLITION R-SHEETS FOR REMOVAL LOCATIONS. CONTRACTOR IS CAUTIONED TO EXERCISE EXTREME CARE WHEN PERFORMING ANY OF THE NECESSARY SAW CUTTING OPERATIONS FOR THE PROPOSED DRIVEWAY REMOVALS. SAW CUTS ARE TO MADE AT THE STATION INDICATED OR TO THE NEAREST JOINT UPON ENGINEER APPROVAL.
28	**44000600**	**SIDEWALK REMOVAL**
		SEE C-SHEET TABULATIONS AND DEMOLITION R-SHEETS FOR REMOVAL LOCATIONS. CONTRACTOR IS CAUTIONED TO EXERCISE EXTREME CARE WHEN PERFORMING ANY OF THE NECESSARY SAW CUTTING OPERATIONS FOR THE PROPOSED SIDEWALK REMOVALS. SAW CUTS ARE TO MADE AT THE STATION INDICATED OR TO THE NEAREST JOINT UPON ENGINEER APPROVAL. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF SIDEWALK PAVEMENT AT A DISPOSAL SITE ACQUIRED BY THE CONTRACTOR, AND NOTED BY ENGINEER. BID ITEM WILL BE MEASURED IN SQUARE YARDS OF REMOVED SIDEWALK. CONTRACTOR TO BE PAID PLAN QUANTITY UNLESS ADJUSTED FOR OBVIOUS ERRORS OR AUTHORIZED CHANGES.
29	**50105220**	**PIPE CULVERT REMOVAL**
		SEE C-SHEETS AND R-SHEETS FOR REMOVAL LOCATIONS AND QUANTITIES. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ANY REMOVED PIPE AT A LOCATION TO BE ACQUIRED BY CONTRACTOR AND NOTED BY ENGINEER. ITEM IS MEASURED IN LINEAR FEET OF REMOVED PIPE. CONTRACTOR WILL BE PAID PLAN QUANTITY UNLESS ADJUSTED FOR OBVIOUS ERROR OR AUTHORIZED CHANGES.
30	**54213657**	**PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12", TYPE 2**
		SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
31	**54214929**	**PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ARCH, EQUIVALENT ROUND SIZE 24", TYPE 2**
		SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
32	**54248130**	**GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND SIZE 24", TYPE 2**
		SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
33	**550A0350**	**STORM SEWER, TRENCHED, RCP, 12", TYPE 2**
		SEE C-SHEETS AND M-SHEETS FOR PLAN AND TABULATIONS. STORM PIPE JOINTS ARE TO BE WRAPPED IN ENGINEERING FABRIC WITH NO JOINT SEALANT UNLESS STATED AS GASKETED JOINTS. STORM TRENCH UNDER ROADWAY, DRIVEWAYS, AND SIDEWALK ARE TO BE FILLED WITH STRUCTURAL BACKFILL TO BOTTOM OF MODIFIED SUBBASE LAYER. STORM TRENCH LOCATED IN GREEN SPACE TO BE FILLED PER SW-102. BID ITEM INCLUDES COSTS FOR EXCAVATION, PLACEMENT, JOINT CONNECTIONS, COMPACTION OF TRENCH BOTTOM, AND STRUCTURAL BACKFILL. BID ITEM TO BE MEASURED AND PAID PER LINEAR FOOT OF PROPERLY INSTALLED PIPE.

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PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: ESTIMATE REFERENCE INFORMATION
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: C.04

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
34	550A0360	**STORM SEWER, TRENCHED, RCP, 15", TYPE 2**
		SEE C-SHEETS AND M-SHEETS FOR PLAN AND TABULATIONS. STORM PIPE JOINTS ARE TO BE WRAPPED IN ENGINEERING FABRIC WITH NO JOINT SEALANT UNLESS STATED AS GASKETED JOINTS. STORM TRENCH UNDER ROADWAY, DRIVEWAYS, AND SIDEWALK ARE TO BE FILLED WITH STRUCTURAL BACKFILL TO BOTTOM OF MODIFIED SUBBASE LAYER. STORM TRENCH LOCATED IN GREEN SPACE TO BE FILLED PER SW-102. BID ITEM INCLUDES COSTS FOR EXCAVATION, PLACEMENT, JOINT CONNECTIONS, COMPACTION OF TRENCH BOTTOM, AND STRUCTURAL BACKFILL. BID ITEM TO BE MEASURED AND PAID PER LINEAR FOOT OF PROPERLY INSTALLED PIPE.
35	550A0380	**STORM SEWER, TRENCHED, RCP, 18", TYPE 2**
		SEE C-SHEETS AND M-SHEETS FOR PLAN AND TABULATIONS. STORM PIPE JOINTS ARE TO BE WRAPPED IN ENGINEERING FABRIC WITH NO JOINT SEALANT UNLESS STATED AS GASKETED JOINTS. STORM TRENCH UNDER ROADWAY, DRIVEWAYS, AND SIDEWALK ARE TO BE FILLED WITH STRUCTURAL BACKFILL TO BOTTOM OF MODIFIED SUBBASE LAYER. STORM TRENCH LOCATED IN GREEN SPACE TO BE FILLED PER SW-102. BID ITEM INCLUDES COSTS FOR EXCAVATION, PLACEMENT, JOINT CONNECTIONS, COMPACTION OF TRENCH BOTTOM, AND STRUCTURAL BACKFILL. BID ITEM TO BE MEASURED AND PAID PER LINEAR FOOT OF PROPERLY INSTALLED PIPE.
36	550A4900	**STORM SEWER, TRENCHED, ARCH RCP, 18" X 28.5", TYPE 2**
		SEE C-SHEETS AND M-SHEETS FOR PLAN AND TABULATIONS. STORM PIPE JOINTS ARE TO BE WRAPPED IN ENGINEERING FABRIC WITH NO JOINT SEALANT UNLESS STATED AS GASKETED JOINTS. STORM TRENCH UNDER ROADWAY, DRIVEWAYS, AND SIDEWALK ARE TO BE FILLED WITH STRUCTURAL BACKFILL TO BOTTOM OF MODIFIED SUBBASE LAYER. STORM TRENCH LOCATED IN GREEN SPACE TO BE FILLED PER SW-102. BID ITEM INCLUDES COSTS FOR EXCAVATION, PLACEMENT, JOINT CONNECTIONS, COMPACTION OF TRENCH BOTTOM, AND STRUCTURAL BACKFILL. BID ITEM TO BE MEASURED AND PAID PER LINEAR FOOT OF PROPERLY INSTALLED PIPE.
37	56100600	**WATER MAIN, 6"**
		SEE MWM-SHEETS FOR WATER MAIN PLAN AND QUANTITIES. ALL WATER MAIN FITTINGS AND CONNECTIONS ARE INCIDENTAL TO THIS BID ITEM. BID ITEM WILL BE PAID FOR PLAN QUANTITY UNLESS ADJUSTED FOR OBVIOUS ERRORS OR AUTHORIZED CHANGES.
38	56104900	**WATER VALVES, 6"**
		SEE MWM-SHEETS FOR PLAN AND PROFILE. BID ITEM WILL BE MEASURED AND PAID FOR EACH GATE VALVE PROPERLY INSTALLED.
39	56107100	**WATER MAIN REMOVAL, 6"**
		SEE C-SHEETS FOR TABULATIONS AND R-SHEETS FOR REMOVAL LOCATIONS. ITEM INCLUDES REMOVAL ONLY AND NOT RELOCATION.
40	56108800	**TAPPING VALVES AND SLEEVES, 6"**
		SEE MWM-SHEETS FOR PLAN AND PROFILE. BID ITEM WILL BE MEASURED AND PAID FOR EACH TAPPING SLEEVE PROPERLY INSTALLED.
41	56109210	**WATER VALVES TO BE ADJUSTED**
		SEE C-SHEETS FOR TABULATION SHOWING LOCATION
42	56200300	**WATER SERVICE LINE 1"**
		SEE C-SHEETS AND MWM-SHEETS FOR TABULATIONS AND LOCATIONS. MATERIAL TO BE COPPER. BID ITEM WILL BE MEASURED AND PAID FOR PER LINEAL FOOT OF PROPERLY INSTALLED PIPE.
43	56201400	**CORPORATION STOPS 1"**
		SEE C-SHEETS AND MWM-SHEETS FOR TABULATIONS AND LOCATIONS. MATERIAL TO BE COPPER. BID ITEM WILL BE MEASURED AND PAID FOR PER EACH CORPORATION STOP PROPERLY INSTALLED.
44	56400500	**FIRE HYDRANTS TO BE REMOVED**
		SEE C-SHEETS AND R-SHEETS FOR REMOVAL LOCATION. CONTRACTOR TO REMOVE FIRE HYDRANT PRIOR TO PLACEMENT OF TEMPORARY ROADWAY. CAPPING OF THE WATER MAIN AT THE REMOVAL LOCATION IS INCIDENTAL TO THIS BID ITEM. BID ITEM IS MEASURED AND PAID FOR EACH HYDRANT REMOVED.
45	56400700	**FIRE HYDRANT AND VALVE (SPECIAL)**
		SEE MWM-SHEETS FOR FIRE HYDRANT LOCATIONS. BID ITEM PAYS FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO INSTALL FIRE HYDRANT ASSEMBLY TO PROPOSED WATER MAIN. FIRE HYDRANTS SHALL BE PLACED SUCH THAT THE ACCESS VALVE IS FACING THE NEAREST STREET EDGE. BID ITEM IS MEASURED AND PAID FOR EACH HYDRANT INSTALLED.
46	56500800	**DOMESTIC WATER SERVICE BOXES**
		SEE C-SHEETS AND MWM-SHEETS FOR TABULATIONS AND LOCATIONS. BID ITEM WILL BE MEASURED AND PAID FOR PER EACH BOX PROPERLY INSTALLED.
47	60108106	**PIPE UNDERDRAINS, TYPE 1, 6" PVC**
		SEE C-SHEETS FOR TABULATIONS AND D-SHEETS AND M-SHEETS FOR LOCATIONS. ITEM INCLUDES TRENCH EXCAVATING, FURNISHING AND PLACING BEDDING AND BACKFILL MATERIAL, ENGINEERING FABRIC, CONNECTORS, ELBOWS, AND TEES. ALL FITTINGS SHALL BE INCLUDED IN LENGTH OF THE PIPE MEASURED.
48	60108XXX	**UNDERDRAIN OUTLET**
		SEE M-SHEETS FOR CONNECTION LOCATIONS. ITEM INCLUDES ALL COSTS ASSOCIATED WITH THE INSTALLATION OF THE OUTLET AT SPECIFIED INTAKE STRUCTURES. ITEM WILL BE MEASURED BY EACH OUTLET INSTALLED.
49	60108XXX	**UNDERDRAIN SERVICE, 6" PVC, INCLUDING 6" WYE**
		STORM SEWER SERVICE CONNECTION VIA A WYE FITTING SHALL BE PROVIDED FOR EACH PROPERTY IN WHICH UNDERDRAIN IS INSTALLED IN FRONT OF OR PAST. CONTRACTOR SHALL BE PAID AS AN EACH ITEM AND RESPONSIBLE FOR EXTENDING TO R.O.W. PROPERTY OWNER IS RESPONSIBLE FOR CONNECTING TO SUCH WYE UNLESS OTHERWISE NOTED IN PLANS OR EXISTING SUBDRAIN/TILE OUTLET NOTED OR FOUND.
50	60200XXX	**MANHOLE, STORM TYPE 401, 48"**
		SEE B-SHEETS FOR DETAILS OF STRUCTURE. SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
51	60200XXX	**MANHOLE, STORM TYPE 401, 72"**
		SEE B-SHEETS FOR DETAILS OF STRUCTURE. SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
52	60200XXX	**INTAKE, TYPE 501**
		SEE B-SHEETS FOR DETAILS OF STRUCTURE. SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
53	60200XXX	**INTAKE, 30" X 36" RECTANGULAR**
		SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.

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PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: ESTIMATE REFERENCE INFORMATION
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: C.05

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
54	60200XXX	**INTAKE, 24" X 84" RECTANGULAR**
		SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
55	60200XXX	**INTAKE, TYPE 512, 24"**
		SEE B-SHEETS FOR DETAILS OF STRUCTURE. SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
56	60200XXX	**INTAKE, TYPE 512, 30"**
		SEE B-SHEETS FOR DETAILS OF STRUCTURE. SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
57	60200XXX	**INTAKE, TYPE 513**
		SEE B-SHEETS FOR DETAILS OF STRUCTURE. SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
58	60200XXX	**INTAKE, TRIPLE 501**
		SEE C-SHEETS AND M-SHEETS FOR STORM SEWER PLAN, PROFILE, AND TABULATIONS.
59	60300350	**MANHOLE FRAMES TO BE ADJUSTED**
		SEE C-SHEETS AND D-SHEETS FOR ADJUSTMENT LOCATIONS. BID ITEM INCLUDES COSTS FOR ANY ADJUSTMENT RINGS, FRAMES, COVERS, AND STEPS NEEDED TO ADJUST RIM ELEVATION OF MANHOLE TO FINISHED GRADE.
60	60500040	**REMOVING MANHOLES**
		SEE C-SHEETS FOR TABULATIONS AND DEMOLITION R-SHEETS FOR LOCATIONS AND QUANTITIES. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF EXISTING STORM SEWER MANHOLES.
61	60500050	**REMOVING CATCH BASINS**
		SEE C-SHEETS FOR TABULATIONS AND DEMOLITION R-SHEETS FOR LOCATIONS AND QUANTITIES. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF STRUCTURES AT A DISPOSAL SITE ACQUIRED BY THE CONTRACTOR, AND NOTED BY ENGINEER. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING PIPE CONNECTIONS DURING REMOVAL AND WILL REPAIR DAMAGED PIPE AT NO EXTRA COST. ITEM WILL BE MEASURED AND PAID FOR EVERY STRUCTURE REMOVED.
62	60602500	**CONCRETE GUTTER, TYPE A**
		SEE D-SHEETS FOR LOCATIONS, SEE L-SHEETS FOR HORIZONTAL GEOMETRY AND PROPOSED ELEVATIONS. ITEM WILL BE MEASURED AND PAID PER LINEAL FOOT PLACED.
63	66900200	**MAINTENANCE OF SOLID WASTE COLLECTION**
		ITEM REFERS TO CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND DELIVER PROPERTY OWNER'S WEEKLY GARBAGE AND RECYCLING CONTAINERS FROM FRONT R.O.W. ALONG STREETS AT TIME OF CLOSURE AND UNABLE TO BE ACCESSED BY THE LOCAL WASTE MANAGEMENT COMPANY. CONTRACTOR IS TO COLLECT, DELIVER, AND RETURN ALL RECEPTACLES TO THEIR RESPECTIVE PROPERTY OWNER.
64	67100100	**MOBILIZATION**
		PREPARATORY WORK AND OPERATIONS FOR ALL ITEMS UNDER CONTRACT. THIS INCLUDES, BUT IS NOT LIMITED TO, THOSE NECESSARY FOR: THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES, INCIDENTALS TO THE PROJECT AND THE ESTABLISHMENT OF OTHER FACILITIES NECESSARY FOR WORK ON THE PROJECT SITE.
65	70100XXX	**TEMPORARY TRAFFIC CONTROL**
		CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL, MAINTAIN , AND REMOVE ALL TRAFFIC CONTROL DEVICES. CONTRACTOR TO ENSURE THE TRAFFIC CONTROL CONFORMS TO MUTCD. BID ITEM INCLUDES COST OF SIDEWALK AND/OR TRAIL CLOSURES. WORK SHALL BE ACCORDANCE WITH SECTION 2528 FROM THE 2015 IOWA DOT STANDARD SPECIFICATIONS. REFER TO J-SHEETS FOR TRAFFIC CONTROL NOTES.
66	M2800250	**TEMPORARY SEEDING, FERTILIZING, AND MULCHING - CLASS 7**
		SEE GENERAL NOTES FOR SEEDING DETAILS. SEED ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES. ITEM MEASURED AND PAID PER ACRE OF SEED APPLIED. ITEM TO BE USED ONLY AS NEEDED DUE TO WEATHER CONSTRAINTS OR LONG-TERM EXPECTED DELAY IN WHICH PERMANENT SEEDING IS NOT ABLE TO TAKE PLACE.
67	X0326806	**CONCRETE WASHOUT**
		CONTRACTOR TO PROVIDE CONCRETE WASHOUT CONTAINMENT, COLLECTION, AND DISPOSAL. CONCRETE WASHOUT CONTAINMENT TO BE USED FOR ALL ON-SITE WASHOUT OF CONCRETE TRUCKS AND FOR ANY PAVING.
68	Z0045452	**PRESSURE REDUCING VALVE 6" WITH VAULT**
		SEE MWM-SHEETS FOR PLAN AND PROFILE. BID ITEM WILL BE MEASURED AND PAID FOR EACH PRESSURE REDUCING VALVE PROVIDED AND PROPERLY INSTALLED. ITEM INCLUDES VALVE VAULT AND ALL ASSOCIATED ISOLATION VALVES, BENDS, FITTINGS, AND MATERIALS ASSOCIATED PER PLANS AND DETAILS.
69	Z0051500	**REMOVING AND RESETTING STREET SIGNS**
		SEE R-SHEETS FOR LOCATION OF REMOVALS. ALL REMOVED SIGNS SHALL BE SALVAGED AND SAVED FOR RE-INSTALLMENT OR RETURNED TO THE VILLAGE TO SALVAGE. ITEM INCLUDES THE INSTALLATION OF NEW STREET SIGNS AND/OR REINSTALLATION OF SALVAGED EXISTING STREET SIGNS AS REMOVED. SIGNS SHALL INCLUDE STREET NAMES, STOP SIGNS, AND PARKING RESTRICTIONS.
70		**PAVEMENT LUG**
		SEE SHEET B.06 FOR DETAILS.

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RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: ESTIMATE REFERENCE INFORMATION
PROJECT NO.: 210237
DESIGN PROFESSIONAL: BOELK
SHEET NUMBER: C.06

REMOVAL OF PAVEMENT

BEGIN STATION	END STATION	PAVEMENT TYPE	AREA	SAW CUT*	REMARKS
			SY	LF	
17+33.70	35+23.01	ASPHALT	5005		

REMOVAL OF CONCRETE AND ASPHALT DRIVES

*NOT A BID ITEM

LOCATION		AREA		SAW CUT*	REMARKS
		BASE	ALT		
STATION	SIDE	SY	SY	LF	
20+05	R	85.4	85.4	13	ASPHALT
20+30	R	87.3	87.3	12	ASPHALT
26+75	L	127.0	127.0	13	CONCRETE
27+48	R	40.1	40.1	17	CONCRETE
28+55	R	29.4	29.4	9	ASPHALT
29+12	R	31.0	31.0	9	ASPHALT
29+75	L	91.0	91.0	30	CONCRETE
30+46	L	110.2	0.0	44	ASPHALT
30+58	R	0.0	26.7	15	CONCRETE
30+80	L	54.8	0.0	19	ASPHALT
30+80	L	0.0	111.5	34	ASPHALT
30+95	L	30.8	0.0	138	ASPHALT
32+11	L	73.5	0.0	43	CONCRETE
32+20	R	0.0	28.9	11	ASPHALT
32+60	L	0.0	275.4	146	CONCRETE
32+82	R	0.0	135.8	91	ASPHALT
33+50	L	0.0	98.5	14	ASPHALT
33+60	R	0.0	91.3	50	CONCRETE
34+40	L	0.0	85.3	42	ASPHALT
TOTAL		760.6	1344.7		

SIDEWALK REMOVAL

*NOT A BID ITEM

BEGIN STATION	END STATION	SIDE	AREA	SAW CUT*	REMARKS
			SY	LF	
31+36.00		R	1.8	2.5	
34+95.00		R	15.1	3.8	
	TOTAL		16.9		

STORM SEWER REMOVAL

LOCATION	SIDE	SANITARY OR STORM SEWER	ABANDONMENT, PLUG ONLY OR REMOVAL	LENGTH OF PIPE ≤ 36 INCH DIAMETER	REMARKS
				LF	
19+87 - 19+86	LR	Storm Sewer	Removal	46	12" RCP
19+86 - 20+57	R	Storm Sewer	Removal	81	12" RCP
26+76	L	Storm Sewer	Removal	39	12" RCP
27+70	L	Storm Sewer	Removal	29	12" CSP
28+35	L	Storm Sewer	Removal	20	12" HDPE
27+18 - 29+49	R	Storm Sewer	Removal	232	12" RCP
27+71	L	Storm Sewer	Removal	29	12" RCP
28+36	L	Storm Sewer	Removal	20	12" RCP
29+14 - 29+49	LR	Storm Sewer	Removal	45	12" RCP
29+49 - 35+00	R	Storm Sewer	Removal	552	18/21" RCP
31+69 - 31+72	L	Storm Sewer	Removal	3	12" CSP/RCP
31+74 - 34+79	L	Storm Sewer	Removal	254	12" CSP/RCP
34+81 - 35+01	LR	Storm Sewer	Removal	56	12" CSP/RCP
			TOTAL	1406	

REMOVAL OF EXISTING STRUCTURES

LOCATION	SIDE	DESCRIPTION	REMARKS
23+06	R	LIGHT POLE	
27+47	L	LIGHT POLE	
27+64	R	MAIL BOX	
28+68	R	MAIL BOX	
29+99	L	LIGHT POLE	
30+65	L	LIGHT POLE	

REMOVAL OF UTILITY STRUCTURES AND ACCESSES

LOCATION	SIDE	DESCRIPTION	REMARKS
19+87	L	STORM INTAKE	
19+86	R	STORM INTAKE	
20+60	R	STORM FES	
27+17	R	STORM INTAKE	
28+35	R	STORM INTAKE	
28+84	R	STORM INTAKE	
29+12	L	STORM FES	
29+48	R	STORM MANHOLE	
30+25	R	STORM INTAKE	
31+73	L	STORM INTAKE	
32+04	R	STORM INTAKE	
32+27	L	STORM INTAKE	
33+18	L	STORM INTAKE	
34+20	L	STORM INTAKE	
		14	TOTAL

EXISTING SIGNS TO BE REMOVED AND REINSTALLED

STREET NAME	LOCATION STATION	SIDE	REMOVE & REINSTALL EXISTING SIGNS	REMARKS
17TH STREET	18+90	L		PLAYGROUND/NO PARKING
17TH STREET	19+35	R		STEEP INCLINE/NO PARKING
17TH STREET	19+70	R		SPEED LIMIT
17th STREET	20+40	L		17TH ST & 7TH AVE
17th STREET	21+25	L		SPEED LIMIT/PLAYGROUND
17th STREET	26+05	L		SPEED LIMIT/PLAYGROUND
17TH STREET	33+85	L		SPEED LIMIT/TRUCK XING
17th STREET	34+75	L		17TH ST & 2ND AVE
17th STREET	34+95	R		STOP

WATERMAIN REMOVALS

WATERMAIN LOCATION		Pipe Size	Length	Notes
From	To	In	FT	
10+03.73	17+36.87	6	723.9	
17+36.87	20+92.59	6	351.7	
		TOTAL	1075.6	

HYDRANT REMOVALS

Location Station	Notes
27+45.84	
31+77.17	
34+68.71	

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
DESIGN PROFESSIONAL: BOELK
SHEET NAME: TABULATIONS - REMOVALS
PROJECT NO.: 210237
SHEET NUMBER: C.07

PROPOSED PAVEMENT

	LOCATION		PCC AREA	HMA TRANSITION (TONS)			AGGREGATE BASE	REMARKS
ROADWAY	STATION	STATION	SY	BASE COURSE	SURFACE COURSE	AGGREGATE BASE	TONS	
17TH STREET	17+70.00	35+09.60	5305.8	32.6	22.6	79.3	1827.0	

SIDEWALKS

ROAD	STATION TO STATION		SIDE	4" PCC Sidewalk (SY)	AGGREGATE SUBBASE (TONS)	Remarks
17TH STREET	31+36.00		R	3.5	0.6	
17TH STREET	34+95.00		R	13.5	4.1	
		TOTAL		17.1	4.7	

ADA SIDEWALK RAMPS

See S Sheets

Intersection/Road	Quadrant/Side	PCC Thickness	6" PCC Sidewalk	Detectable Warnings	Aggregate Subbase	Remarks
			SY	SF	Tons	
17TH AND 2ND	SE	6 inches	5.0	8	1	

PROPOSED DRIVEWAYS

Location		3" Dropped Curb	WIDTH AT ROW	Driveway Surface Area		AGGREGATE SUBBASE FOR PCC	REMARKS
Station	Side			PCC	GRANULAR SURFACING		
		LF	FT	SY	TON	TON	
20+23	R	93.5	N/A	188	0	56	
26+55	L	19.0	13.0	84	0	25	
27+47	R	26.0	19.8	60	0	18	
27+65	L	28.7	22.7	0	21	0	
27+83	R	40.0	34.0	0	32	0	
28+37	L	21.0	15.0	0	11	0	
28+55	R	16.3	10.3	28	0	11.0	
29+13	R	16.3	10.3	27	0	10.7	
29+77	L	33.7	27.9	135	0	40	
29+89	R	22.7	16.7	0	8	0	
30+25	L	70.9	77.0	0	106	0	
30+60	R	21.0	15.0	48	0	14	
30+80	L	22.6	19.4	103	0	41.3	
32+04	L	42.6	42.6	56	0	17	
32+21	R	17.3	11.3	24	0	9.7	
32+64	R	49.8	43.8	60	0	23.9	
32+85	L	102.9	96.8	181	0	54	
33+59	R	35.8	29.8	75	0	23	
34+40	L	51.3	28.7	87	0	26	
50+40	R	50.0	50.0	0	18	0	
			TOTAL	1156	195	371	

ADJUSTMENT OF FIXTURES

Location Station	Type of Fixture	Adjustment (ft)	REMARKS
20+09.31	SANITARY MANHOLE	-0.33	
20+11.28	WATER VALVE	-0.35	
27+02.46	SANITARY MANHOLE	1.83	
31+03.22	SANITARY MANHOLE	-1.47	
34+93.43	SANITARY MANHOLE	-0.51	

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DRAWING LOG

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PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NAME: TABULATIONS - PAVING
SHEET NUMBER: C.08

STORM SEWER STRUCTURES

STRUCTURE ID	TYPE	RIM / FG	INFLOW PIPE IE	OUTFLOW PIPE IE
90.0	18" x 28.5" FES	592.05	28" IE: 590.15 SE	
100.0	72" MH 401	593.34	28" IE: 590.23 S	28" IE: 590.23 NW
101.0 (3)	TRIPLE 60" DIA CATCH BASINS	593.52		28" IE: 590.51 N 18" IE: 590.51 S
101.0 (2)	TRIPLE 60" DIA CATCH BASINS	593.68	18" IE: 590.51 N	18" IE: 590.51 S
101.0 (1)	TRIPLE 60" DIA CATCH BASINS	593.84	18" IE: 590.61 S 18" IE: 590.51 N 15" IE: 590.79 E	
101.1	INTAKE 505	594.00		15" IE: 591.04 W
102.0	48" MH 401	599.04	18" IE: 593.82 S	18" IE: 592.74 N
103.0 (1)	DOUBLE 48" DIA CATCH BASINS	601.17	18" IE: 596.87 S	18" IE: 596.87 N
103.0 (2)	DOUBLE 48" DIA CATCH BASINS	601.17	18" IE: 596.87 S 15" IE: 596.87 E	18" IE: 596.77 N
103.1	24" x 84" INTAKE	601.18		15" IE: 597.11 W
104.0	30" x 36" INTAKE	602.37	18" IE: 597.60 S 15" IE: 597.83 SW 15" IE: 598.20 E	18" IE: 597.50 N
104.1	24" INTAKE 512	601.28		15" IE: 598.02 NE
104.2	INTAKE 501	602.37		15" IE: 598.45 W
105.0	30" x 36" INTAKE	607.86	15" IE: 601.08 E 18" IE: 601.08 S	18" IE: 600.98 N
105.1	INTAKE 501	607.86	15" IE: 601.40 E	15" IE: 601.33 W
105.2	24" INTAKE 512	605.92		15" IE: 601.56 W
106.0	30" x 36" INTAKE	614.27	18" IE: 607.69 SE 15" IE: 607.69 E	18" IE: 607.59 N
106.1	INTAKE 501	614.27		15" IE: 607.94 W
107.0	30" x 36" INTAKE	652.44	15" IE: 649.30 SE 15" IE: 648.50 SW	18" IE: 644.91 NW
107.1	30" x 36" INTAKE	652.44	15" IE: 648.90 S	15" IE: 648.80 NE
107.2	INTAKE 513	654.50		15" IE: 649.60 N
107.3	INTAKE 513	654.50		15" IE: 651.16 NW
500.0	12" FES	603.13	12" IE: 601.90 S	
501.0	12" FES	603.53		12" IE: 602.30 N

STORM SEWER PIPE TABLE

PIPE ID	STRUCTURE US	STRUCTURE DS	INVERT US	INVERT DS	LENGTH (FEET)	SLOPE	SIZE (IN)	NOTES
100.0	100.0	90.0	590.23	590.15	16	0.54%	28	18" X 28.5" RCP ARCH
101.0	101.0 (3)	100.0	590.51	590.23	117	0.24%	28	18" X 28.5" RCP ARCH
101.1	101.1	101.0 (1)	591.04	590.79	28	0.92%	15	RCP
102.0	102.0	101.0 (1)	592.74	590.61	213	1.00%	18	RCP
103.0	103.0 (2)	102.0	596.77	593.82	197	1.50%	18	RCP
103.1	103.1	103.0 (2)	597.11	596.87	27	0.94%	15	RCP
104.0	104.0	103.0 (1)	597.50	596.87	101	0.62%	18	RCP
104.1	104.1	104.0	598.02	597.83	19	1.00%	15	RCP
104.2	104.2	104.0	598.45	598.20	25	1.00%	15	RCP
105.0	105.0	104.0	600.98	597.60	111	3.05%	18	RCP
105.1	105.1	105.0	601.33	601.08	25	1.00%	15	RCP
105.2	105.2	105.1	601.56	601.40	16	1.00%	15	RCP
106.0	106.0	105.0	607.59	601.08	76	8.63%	18	RCP
106.1	106.1	106.0	607.94	607.69	26	1.00%	15	RCP
107.0	107.0	106.0	644.91	607.69	266	14.00%	18	RCP
107.1	107.1	107.0	648.80	648.50	25	1.20%	15	RCP
107.2	107.2	107.1	649.60	648.90	25	2.85%	15	RCP
107.3	107.3	107.0	651.16	649.30	25	7.60%	15	RCP
501.0	501.0	500.0	602.30	601.90	38	1.07%	12	RCP

PROPOSED WATERMAIN

* ALL WATERMAIN TO BE PVC C900

WATERMAIN LOCATION		Pipe Size	Design Length	Notes
From	To	In	FT	
10+03.73	17+36.87	6	748.3	
17+36.87	21+01.54	6	356.0	
		TOTAL	1104.3	

PROPOSED HYDRANTS

Location Station	Notes
13+37.50	
17+04.50	

UNDERDRAIN

Station to Station		SIDE	PIPE		APRONS	OUTLET	Remarks
			DIA (IN)	LENGTH (LF)	DR-203	DR-303	
18+15.00	23+70.00	L	6.0	545		1	
18+15.00	23+70.00	R	6.0	564		1	
23+70.00	26+40.00	L	6.0	270		2	
25+58.00	26+36.00	R	6.0	74		1	
26+36.00	27+11.00	R	6.0	74		2	
27+11.00	28+22.00	R	6.0	110		2	
28+22.00	29+27.00	R	6.0	102		2	
29+27.00	30+27.00	R	6.0	98		1	
30+27.00	33+31.00	R	6.0	302		1	
33+31.00	35+02.00	R	6.0	170	1	2	
34+02.00	34+66.00	L	6.0	67		1	
50+05.42	50+96.45	R	6.0	84		1	
50+12.95	50+72.38	L	6.0	77		1	
				2,537	1	18	TOTAL

UTILITY SERVICES

	WATER SERVICES			SUBDRAIN				NOTES
ADDRESS	LOCATION STATION (WATER)	REMOVAL LENGTH (LF)	NEW SERVICE LENGTH (LF)	LOCATION STATION (STREET CL)	REMOVAL LENGTH (LF)	NEW 6" SERVICE LENGTH (LF)	EXISTING PIPE	
519 17TH STREET	13+00.41	20	5	27+11.25		10		
518 17TH STREET	TBD	TBD	49	27+15.49		15		
511 17TH STREET	13+99.29	16	1	28+14.46		6		
510 17TH STREET	TBD	TBD	49	28+28.07		19	3" PVC	
503 17TH STREET	TBD	TBD	5	28+51.99		13		
502 17TH STREET	14+70.18	34	49	28+69.69		11		
417 17TH STREET	15+12.81	16	2	29+12.31		13		
418 17TH STREET	15+41.79	38	52	29+41.29		11		
409 17TH STREET	TBD	TBD	2	29+96.55		13		
410 17TH STREET	16+44.46	32	49	30+43.97		11		
402 17TH STREET	17+51.63	34	49	31+51.14		11		
403 17TH STREET	17+69.02	17	2	31+68.53		13		
401 17TH STREET	TBD	TBD	2	32+25.14		13		
1700 2ND AVENUE	19+80.31	18	14	33+38.62		12		
1634 2ND AVENUE	N/A			34+19.88		11		
1708 7TH AVENUE	N/A			50+05		15		
BASE BID TOTALS		156	263			135		
ALT BID TOTALS		225	329			194		

SUBDRAIN SERVICES TO BE CONNECTED TO EXISTING LINES IF DISCOVERED DURING CONSTRUCTION.
FOR ALL SUBDRAINS ADDED WITH NO CONNECTION, CONTRACTOR TO CAP STUB

ENGINEER:
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DRAWING LOG

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PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NAME: TABULATIONS - UTILITIES
SHEET NUMBER: C.09

INLET AND PIPE PROTECTION

Location Station	Side	Remarks
23+49.64	L	
23+49.86	R	
23+70.44	L	
23+70.44	R	
26+41.25	L	
26+46.71	R	
27+10.86	L	
27+11.09	R	
27+15.49	R	
27+59.14	R	
28+21.93	L	
28+21.93	L	
28+21.93	R	
28+21.93	R	
29+26.90	R	
29+27.17	L	
33+30.05	R	
33+34.96	L	
	18	TOTAL

TABULATION OF SILT FENCES/PERIMETER EROSION CONTROL

Location			Length	Remarks
Begin Station	End Station	Side	LF	
21+80.02	26+47.87	L	540	
21+61.49	23+63.94	R	197	
24+20.74	27+39.80	R	316	
26+66.21	27+49.86	L	97	
27+82.67	28+28.42	L	48	
30+67.09	32+05.48	R	143	
30+98.64	31+97.80	L	103	
			1,444	TOTAL

EROSION CONTROL BLANKET

SEE SHEETS U.01 AND U.02 FOR ADDITIONAL LOCATION INFORMATION

Location			Area	
Road Identification	Location	Side	SY	REMARKS
17TH STREET	20+70.59	R	1,132	
17TH STREET	21+05.87	L	885	
17th STREET	24+37.47	R	375	
17th STREET	26+84.72	L	238	
17th STREET	27+83.52	L	80	
17th STREET	34+95.32	R	130	
		TOTAL	2,840	

RR-4 REVETMENT

SEE D SHEETS FOR ADDITIONAL LOCATION INFORMATION

Location				
Road Identification	Location	Side	TONS	REMARKS
17TH STREET	21+90.00	L	21	
17TH STREET	21+90.00	R	21	
17th STREET	34+80.00	L	24	
	TOTAL		66	

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PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
TABULATIONS - EROSION CONTROL

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
C.10

LEGEND

SILT FENCE - INSTALL PRIOR TO CONSTRUCTION

FILTER SOCK/INTAKE PROTECTION - INSTALL AFTER ROUGH GRADING

1718 7TH AVE
DONALD W
THOMPSON JR

1719 7TH AVE
RONALD W
FORNERO-GREEN

1703 7TH AVE N
SCOTT A/MICHELLE L
HEMM

1708 7TH AVE
REGGINAL L
STEARNS

526 17TH ST
JENNIFER M/TERRY M
BROOKS

LOT 13 RIVER
GROVE ADD TO
RAPIDS CITY
DIAMOND
GRANADA

LOT 8 PERKINS 1ST ADD
VILLAGE OF RAPIDS CITY

GRADING EASEMENT

17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00

519 17TH ST
SAWMILL
PROPERTIES

511 17TH ST
KELLEY M
KERSCHIETER

503 17TH ST
JESSE J
LEMASTER

417 17TH ST
RYANNE C
COVEMAKER

409 17TH ST
MARJORIE E
DECAP

403 17TH ST
GREGORY
KERNER

401 17TH ST
PHOENIX CORP OF
THE Q C

1700 2ND AVE
TBK BANK SSB
| ACCT
PAYABLE

27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 35+23.01

518 17TH ST
ERIN E. SHAW

510 17TH ST
TERRY
HANSEN

502 17TH ST
MALINDA A
HENNINGS

418 17TH ST
KELLY JI SARA
L FERGUSON

410 17TH ST
SHARON A
LEFEVER

402 17TH ST
GARY MOORE

LOT 2 DECAP
SUBD
MARJORIE
DECAP

1634 2ND AVE
DANIEL WOODS

May 12, 2023 - 1:18pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-C SHEETS.dwg

ENGINEER:
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0 15 30

DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

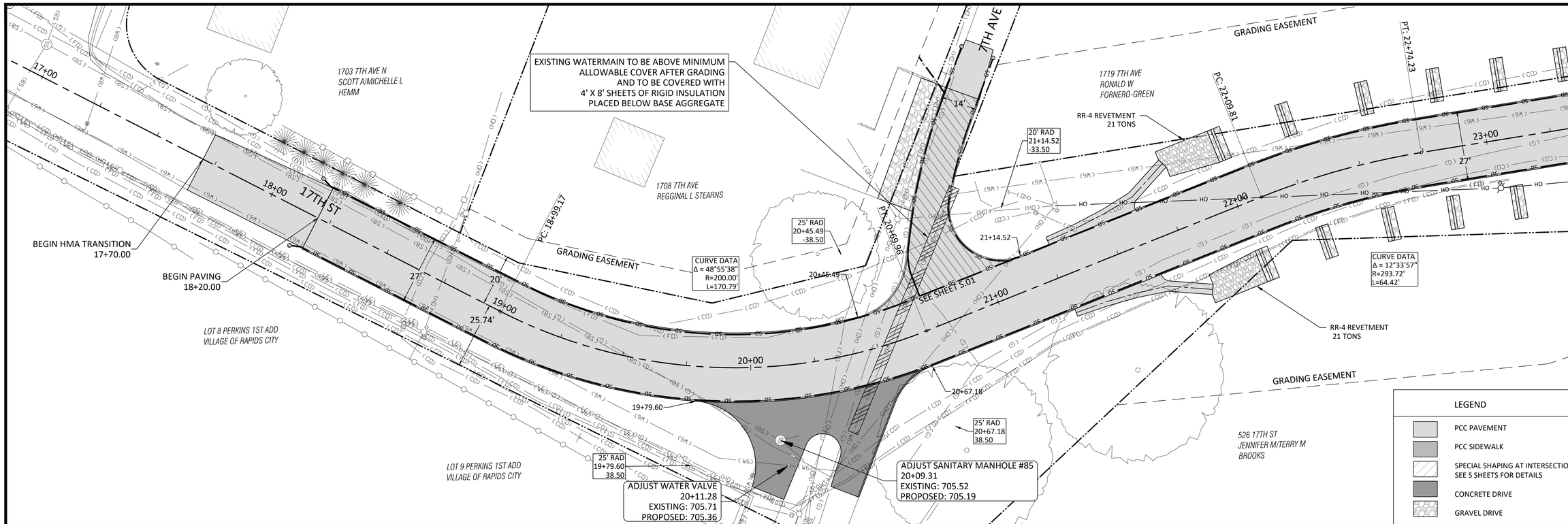
CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
EROSION CONTROL

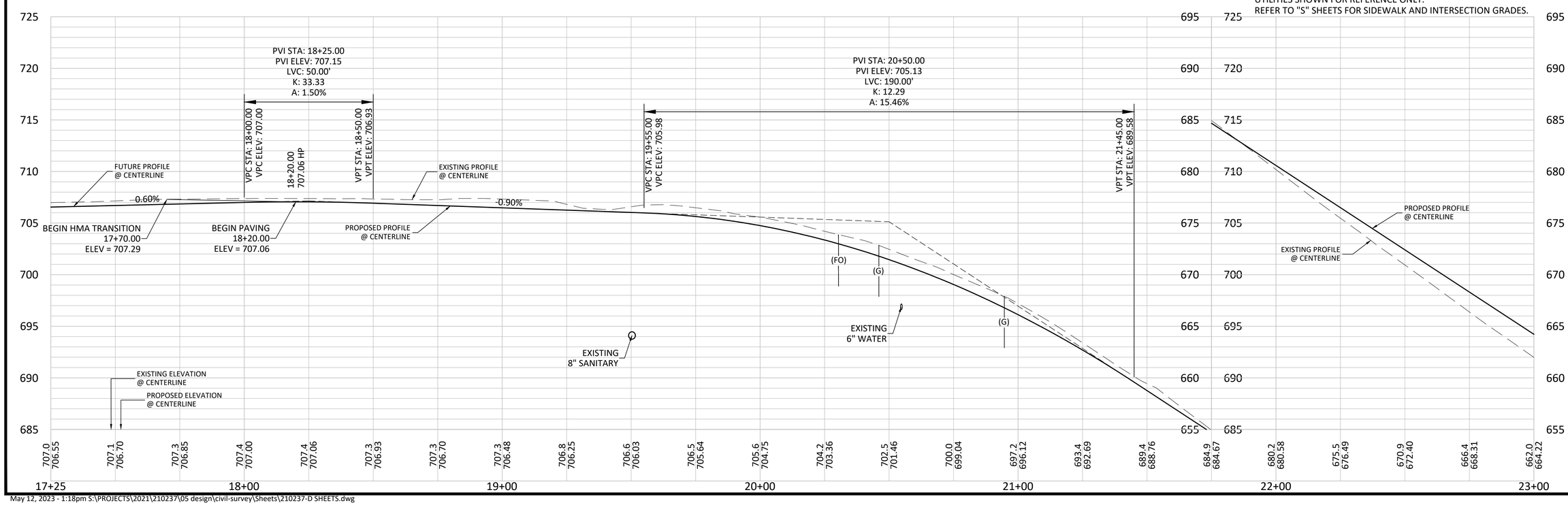
DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
C.11



NOTES:
REFER TO UTILITY SHEETS FOR ADDITIONAL INFORMATION.
UTILITIES SHOWN FOR REFERENCE ONLY.
REFER TO "S" SHEETS FOR SIDEWALK AND INTERSECTION GRADES.



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ENGINEER:

0 10 20

DRAWING LOG

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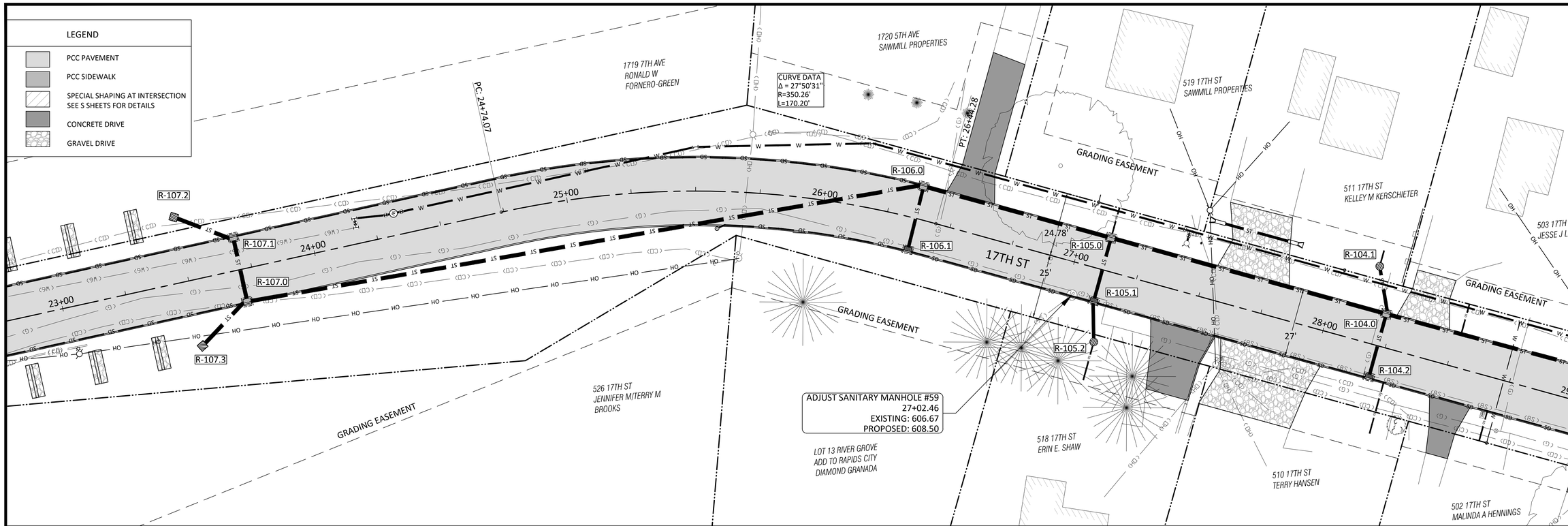
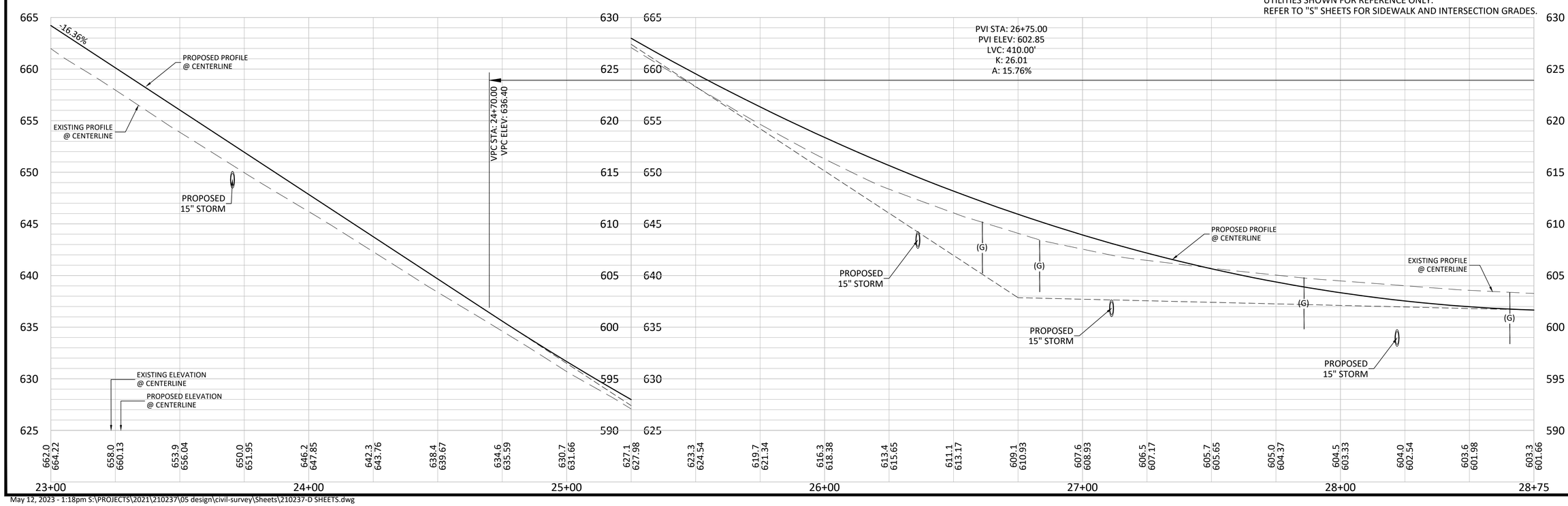
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
SHEET NAME: 17TH STREET PLAN & PROFILE
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: D.01



NOTES:
REFER TO UTILITY SHEETS FOR ADDITIONAL INFORMATION.
UTILITIES SHOWN FOR REFERENCE ONLY.
REFER TO "S" SHEETS FOR SIDEWALK AND INTERSECTION GRADES.



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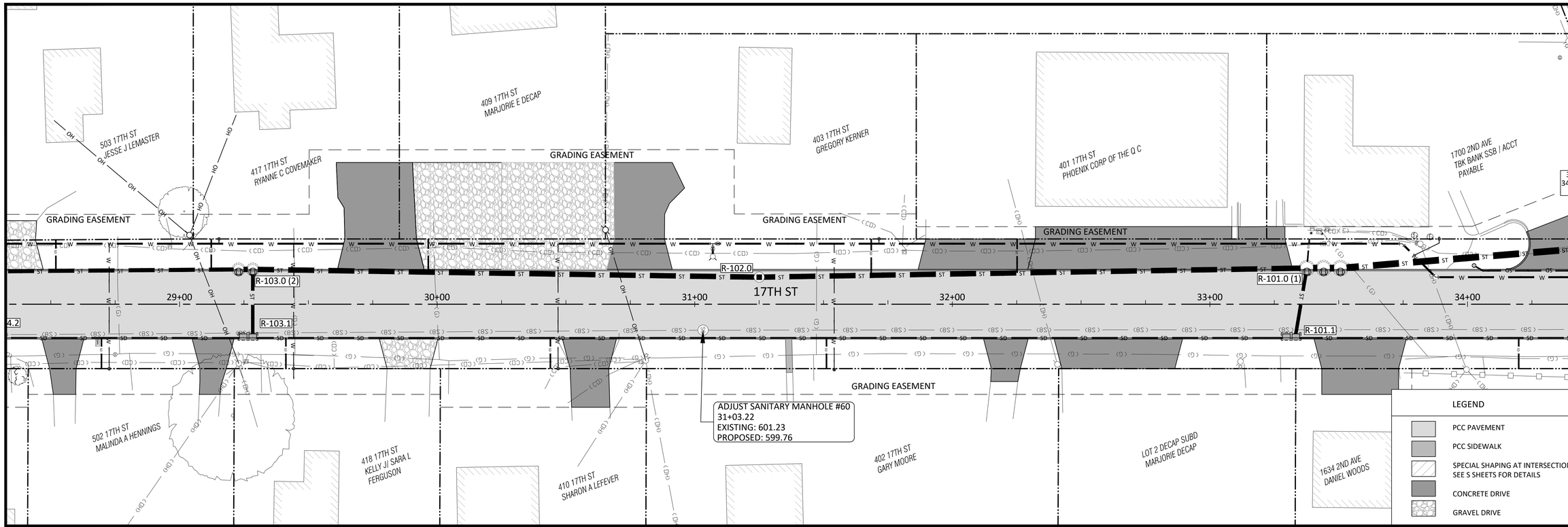
REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

DRAWING LOG

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: 17TH STREET PLAN & PROFILE
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: D.02

May 12, 2023 - 1:18pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-D SHEETS.dwg



NOTES:
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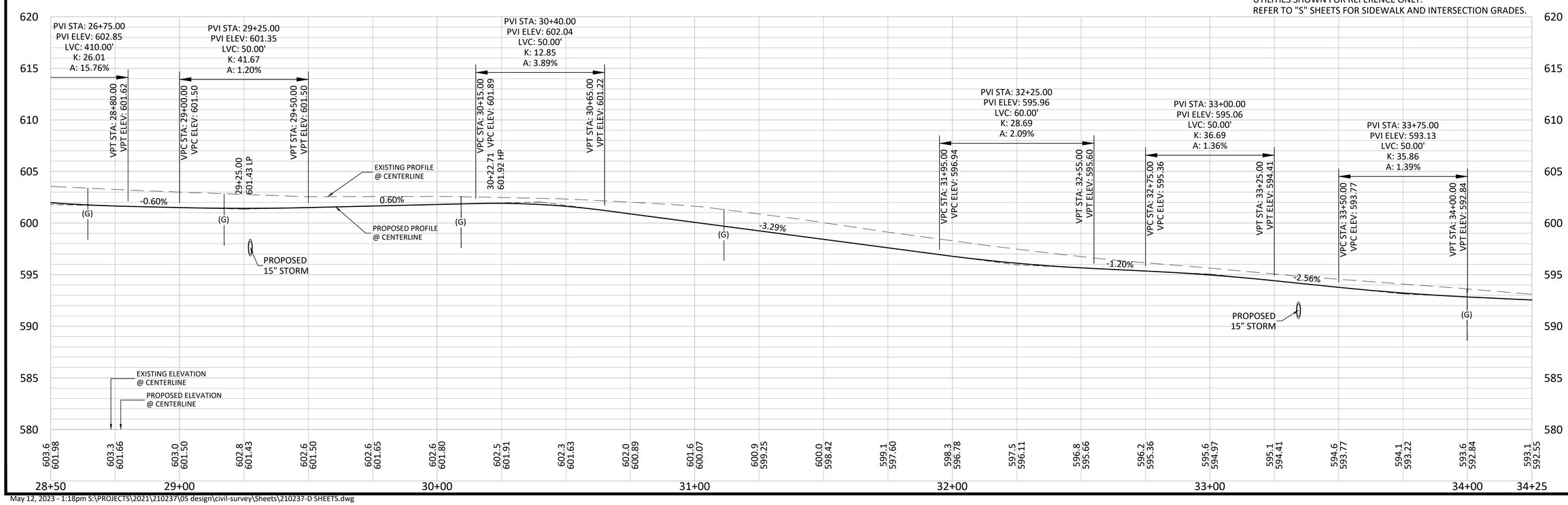
REFER TO "S" SHEETS FOR SIDEWALK AND INTERSECTION GRADES.



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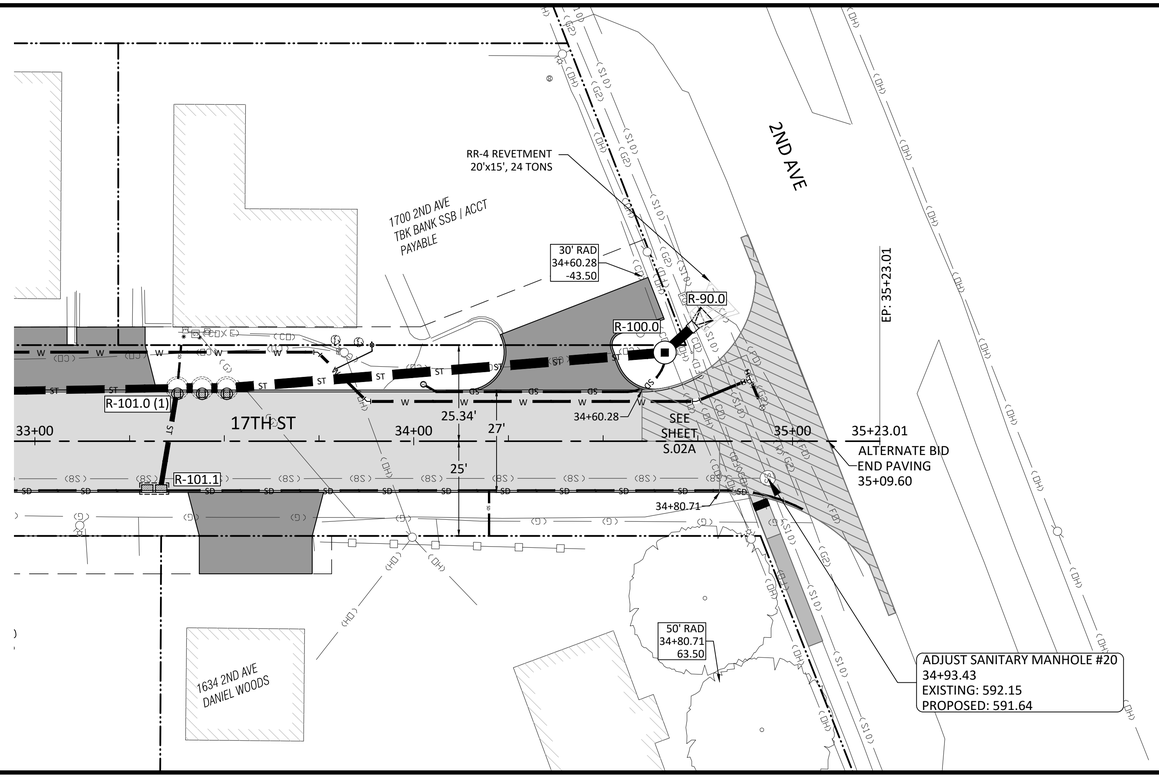
DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-IVE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: 17TH STREET PLAN & PROFILE
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: D.03



LEGEND

- PCC PAVEMENT
- PCC SIDEWALK
- SPECIAL SHAPING AT INTERSECTION SEE S SHEETS FOR DETAILS
- CONCRETE DRIVE
- GRAVEL DRIVE

NOTES:
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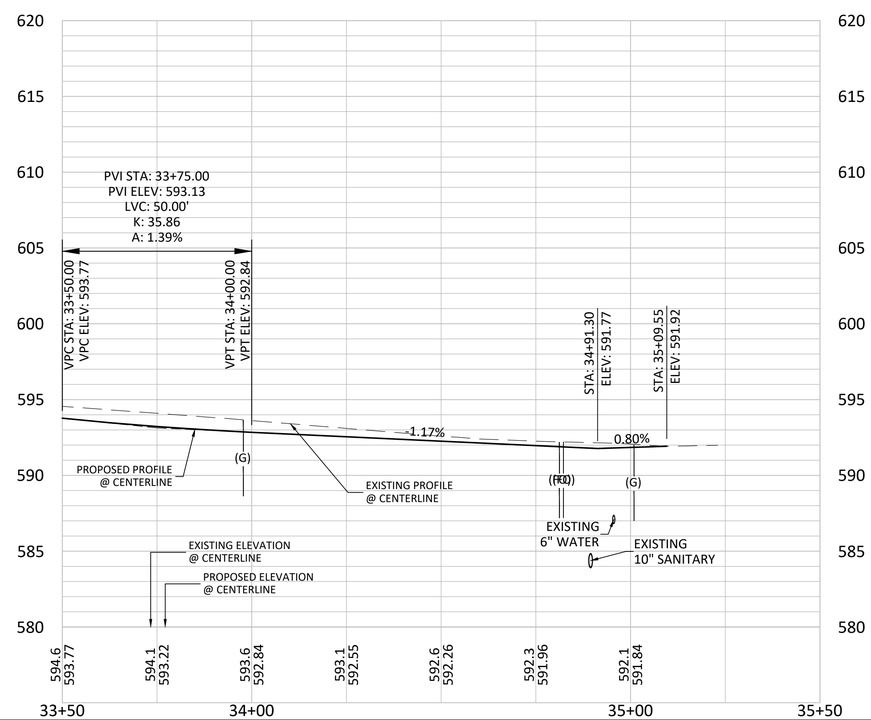
UTILITIES SHOWN FOR REFERENCE ONLY.
REFER TO "S" SHEETS FOR SIDEWALK AND INTERSECTION GRADES.



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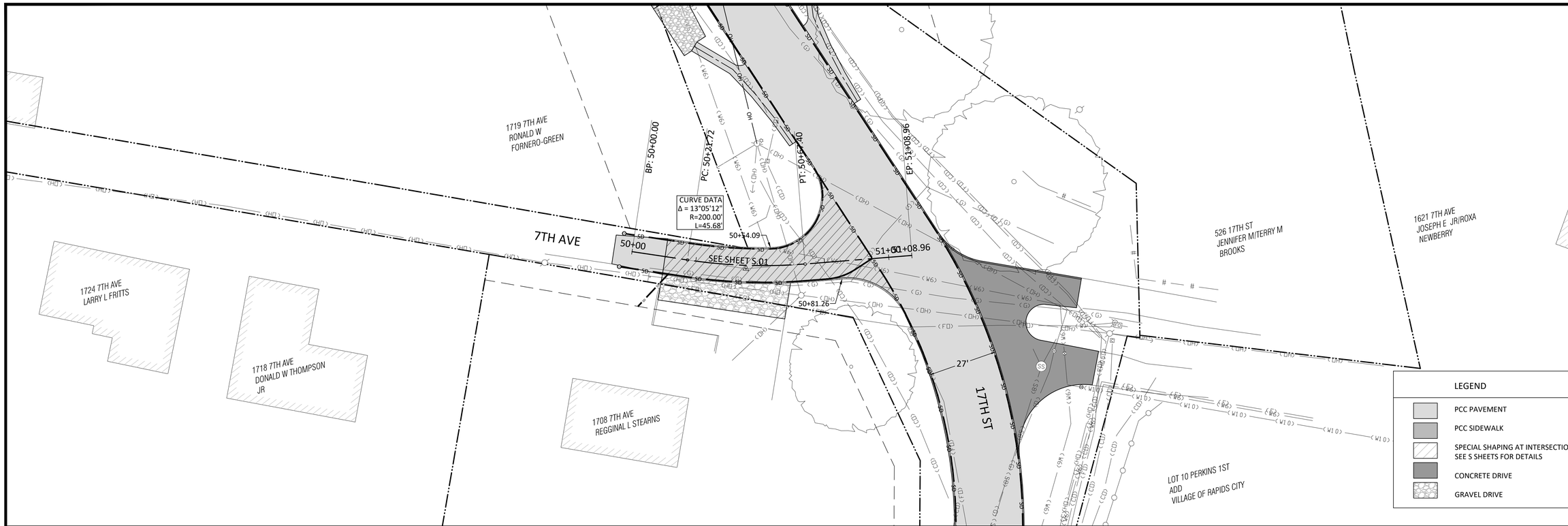
DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-IVE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
DESIGN PROFESSIONAL: BOELK
SHEET NAME: 17TH STREET PLAN & PROFILE
PROJECT NO.: 210237
SHEET NUMBER: D.04

May 12, 2023 - 1:18pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-D SHEETS.dwg



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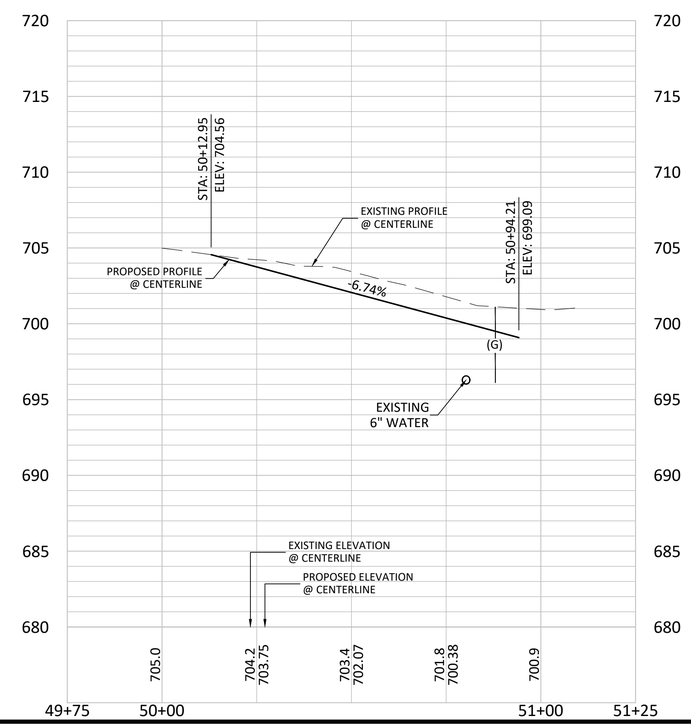
REFER TO "S" SHEETS FOR SIDEWALK AND INTERSECTION GRADES.



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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

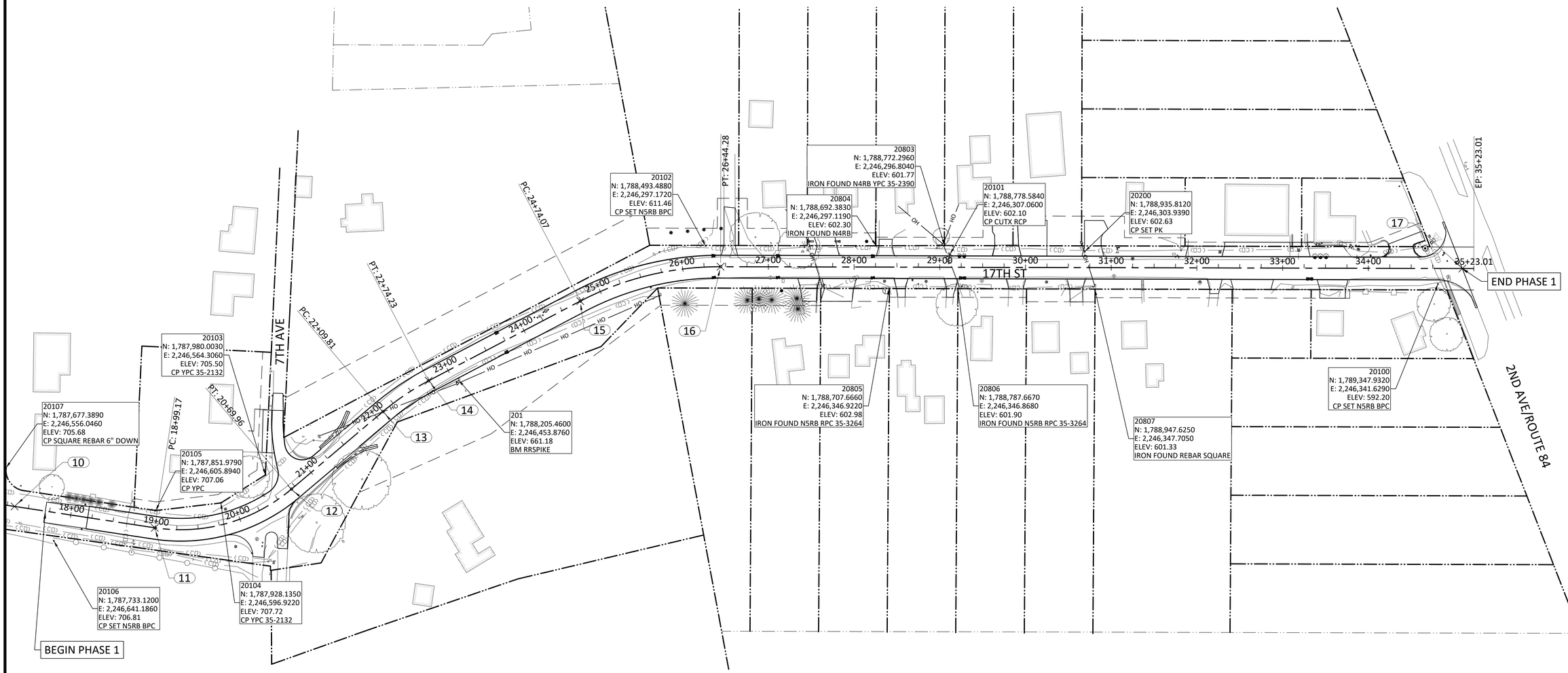
SHEET NAME:
7TH AVE PLAN & PROFILE

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
D.11

May 12, 2023 - 1:18pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-D SHEETS.dwg



ALIGNMENT COORDINATES		
Point #	Northing	Easting
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11	1787850.9857	2246625.9410
12	1788010.3733	2246580.8380
13	1788117.0948	2246490.4473
14	1788170.4043	2246454.5154
15	1788347.3465	2246361.6260
16	1788511.0310	2246321.4903
17	1789376.3549	2246323.6608

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

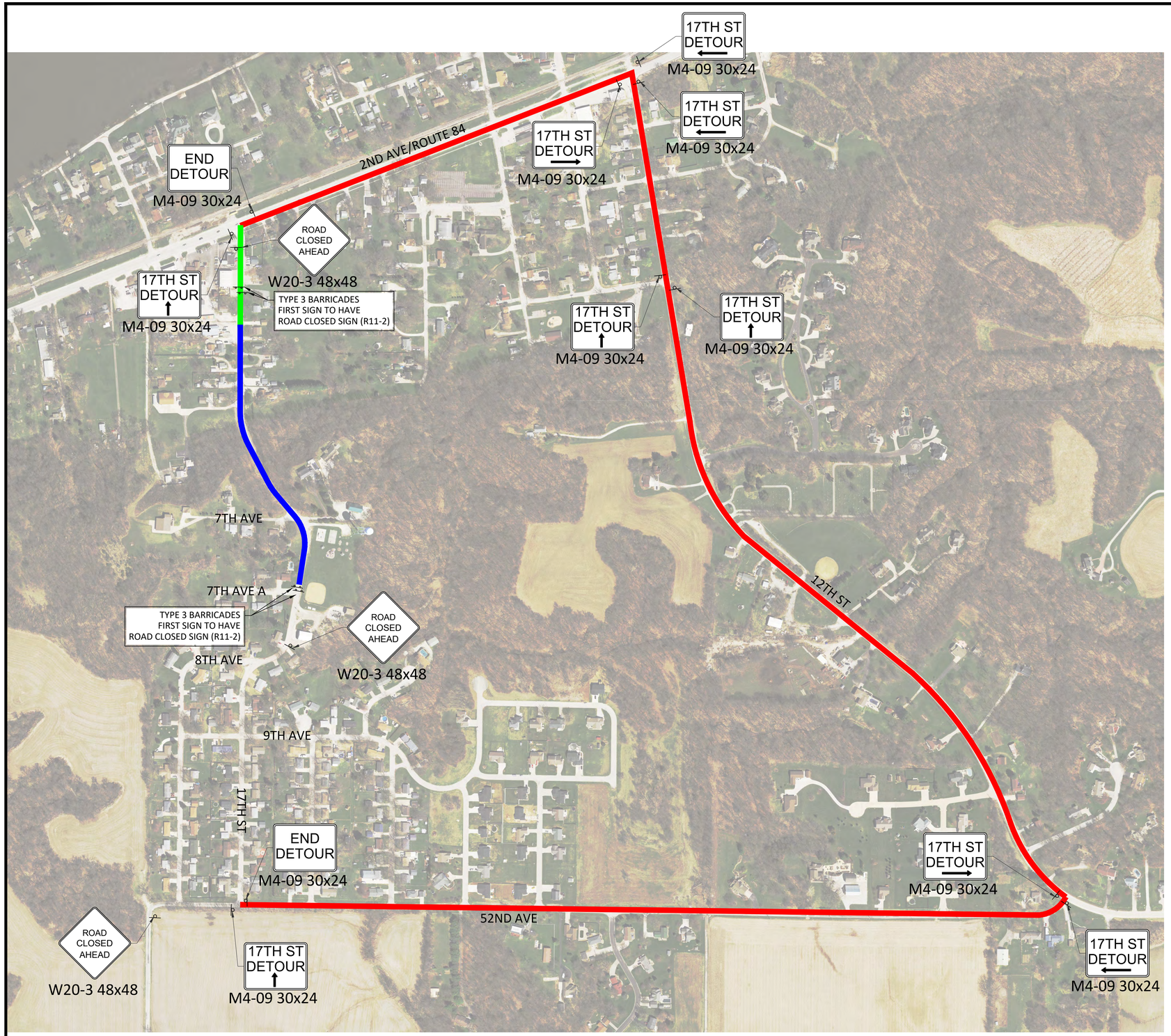
SHEET NAME:
CONTROL POINTS

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
G.01

May 12, 2023 - 1:18pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-G SHEETS.dwg



TRAFFIC CONTROL PLAN NOTES:

1. 17TH STREET IS INTENDED AND ALLOWED TO BE CLOSED FROM THE BOTTOM OF HILL TO 7TH AVENUE THROUGHOUT THE PROJECT OR AS LONG AS DEEMED NECESSARY BY CONTRACTOR TO PROPERLY CONSTRUCT THE 17TH STREET HILL. ALL TRAFFIC CONTROL AND DETOUR SIGNAGE SHALL BE IN PLACE PRIOR TO SUCH CLOSURE AND NOTICE PROVIDED TO AXIOM CONSULTANTS AND VILLAGE OF RAPIDS CITY A MINIMUM OF 1 WEEK PRIOR TO CLOSURE SO THAT PROPER NOTICE CAN BE PROVIDED TO THE PUBLIC AND EMERGENCY RESPONDERS.

2. ALL DETOUR SIGNAGE SHALL BE CONTINUALLY INSPECTED AND MAINTAINED SO THAT IN WORKING ORDER AND CLEAR TO TRAVELERS.

3. CONSTRUCTION BETWEEN 7TH AVE AND 7TH AVE 'A' SHALL BE PHASED SO THAT ACCESS IS PROVIDED TO LOCAL TRAFFIC THROUGHOUT THE PROJECT IF AT ALL POSSIBLE. THE USE OF TEMPORARY AGGREGATE MAY BE NEEDED AND USED AND MUST BE MAINTAINED. SEE SHEETS J.02 AND J.03 FOR SUGGESTED PHASING AS TO BE CONSIDERED FOR BIDDING. CONTRACTOR MAY SUBMIT ALTERNATE CONSTRUCTION PHASING AND TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL FOLLOWING AWARD OF BID IF DESIRED.

4. CONSTRUCTION BETWEEN ROUTE 84 AND BOTTOM OF HILL SHALL BE PHASED SO THAT ACCESS IS PROVIDED TO LOCAL TRAFFIC THROUGHOUT THE PROJECT IF AT ALL POSSIBLE. THE USE OF TEMPORARY AGGREGATE MAY BE NEEDED AND USED AND MUST BE MAINTAINED. SUCH ACCESS IS SUGGESTED TO BE PROVIDED VIA PAVING PROPOSED ROADWAY HALF-WIDTH WHILE UTILIZING TEMPORARY CROSSINGS FOR DRIVEWAYS AND UTILITIES AS NEEDED. CONTRACTOR IS TO SUBMIT PHASING AND TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL FOLLOWING AWARD OF BID.

LEGEND:

- TRAFFIC CONTROL SIGN
- TRAFFIC DETOUR ROUTE
- BASE BID PROJECT AREA
- ALTERNATE BID PROJECT AREA

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-1E REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

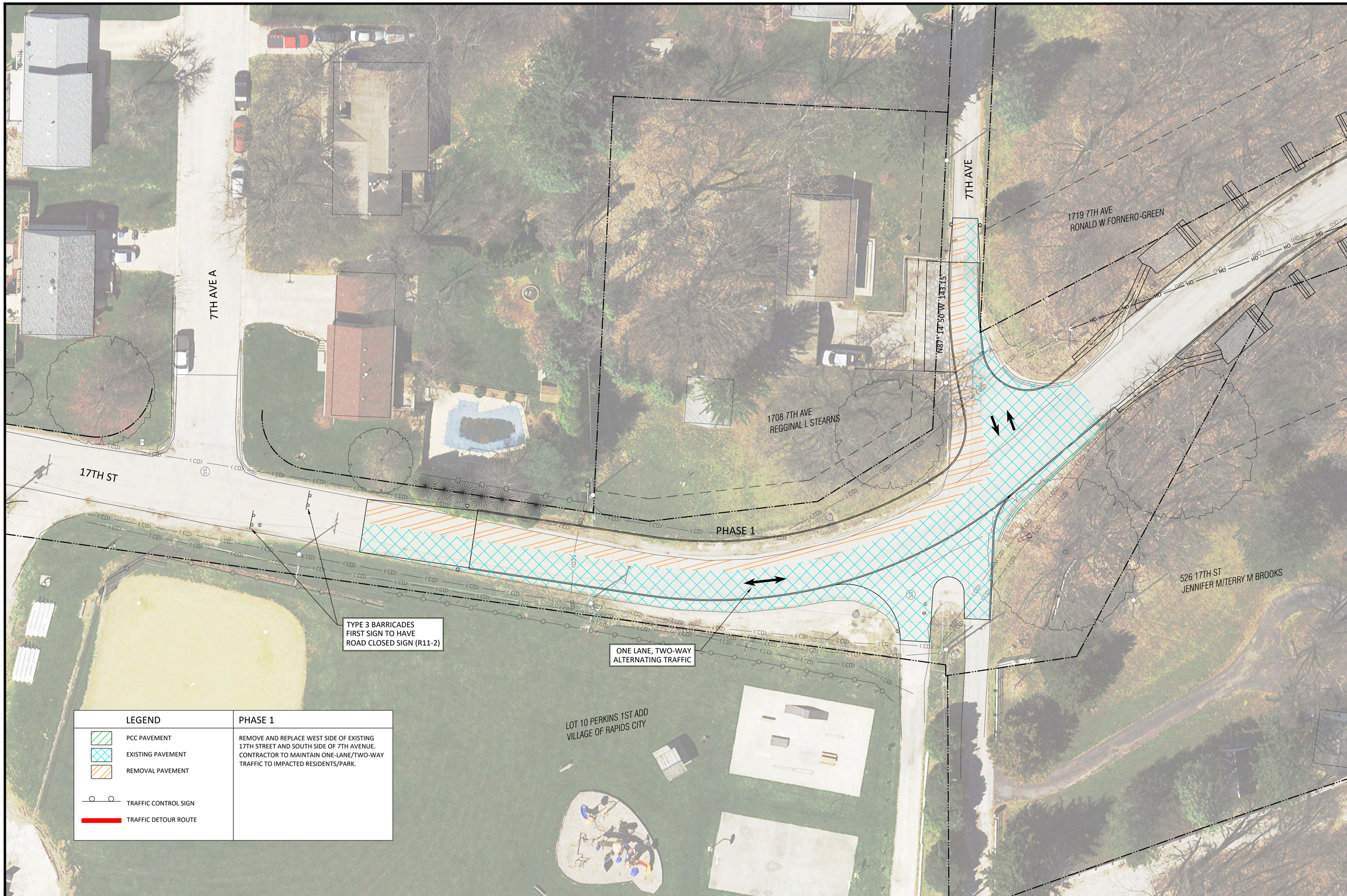
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: TRAFFIC CONTROL OVERALL

DESIGN PROFESSIONAL: BOELK

PROJECT NO.: 210237

SHEET NUMBER: J.01



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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

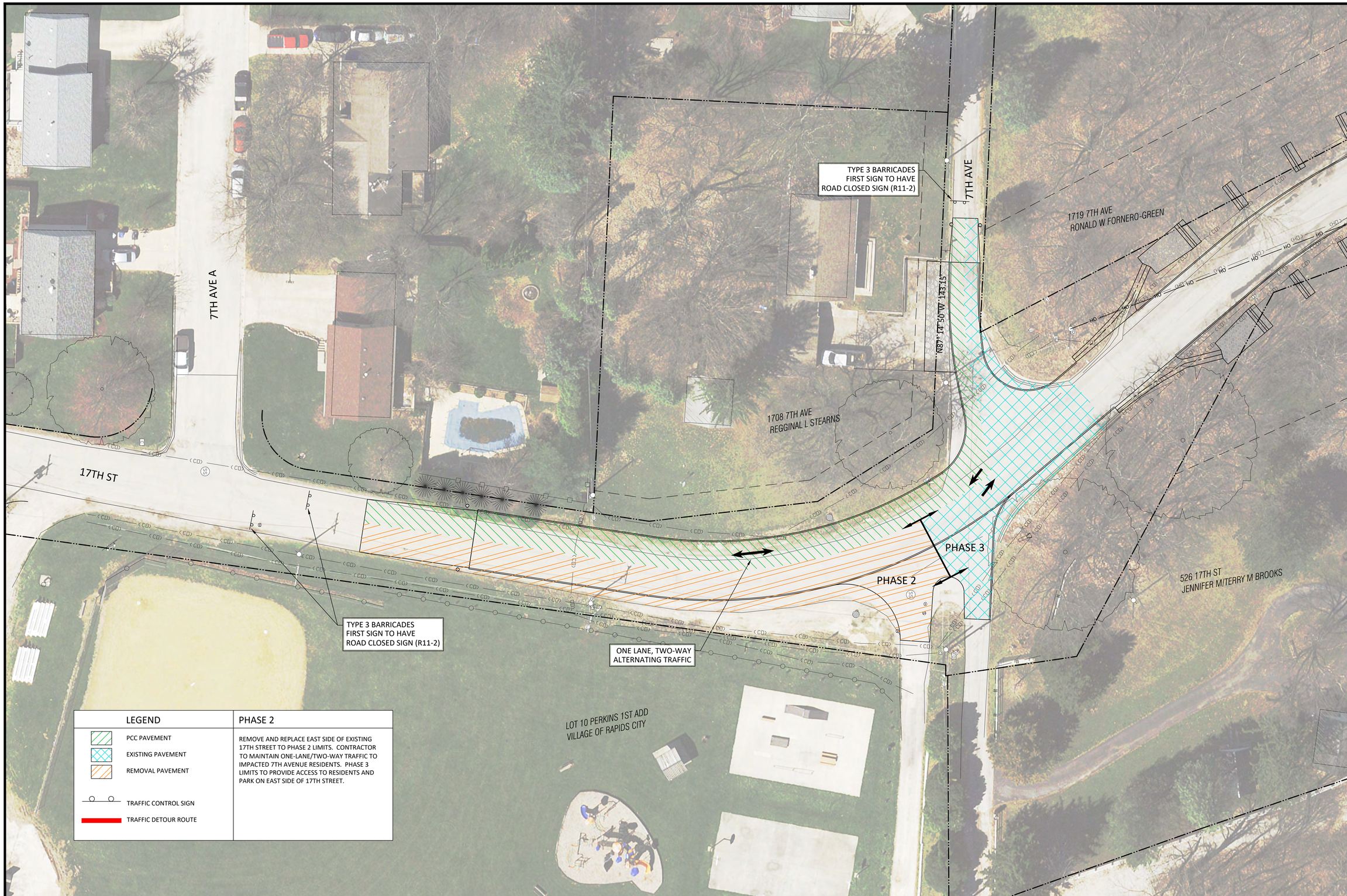
SHEET NAME:
TRAFFIC CONTROL PHASE 1

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
J.02

May 12, 2023 - 1:19pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-J SHEETS.dwg



ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

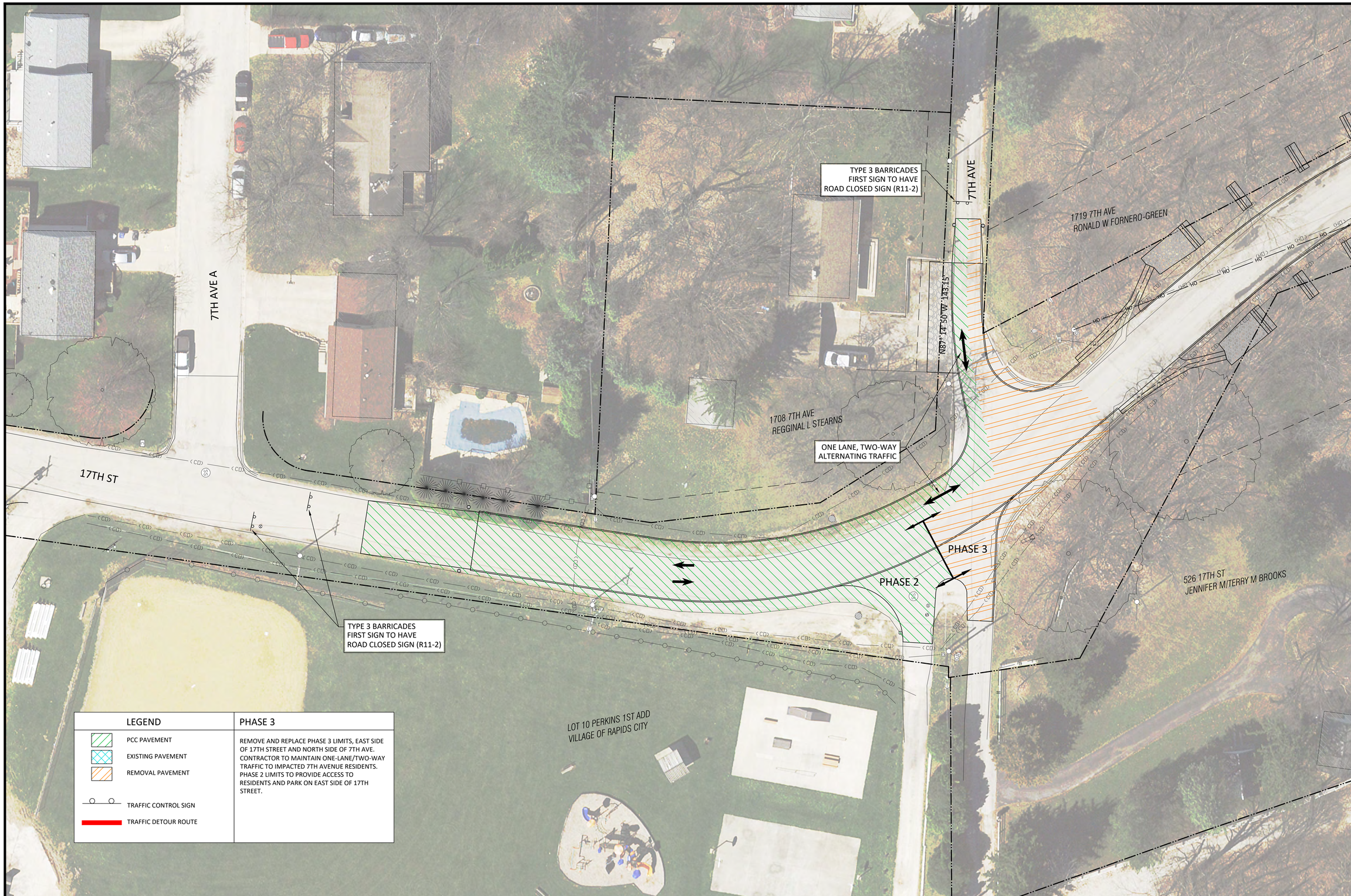
SHEET NAME:
TRAFFIC CONTROL PHASE 2

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
J.03

May 12, 2023 - 1:19pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-J SHEETS.dwg



LEGEND	PHASE 3
PCC PAVEMENT EXISTING PAVEMENT REMOVAL PAVEMENT TRAFFIC CONTROL SIGN TRAFFIC DETOUR ROUTE	REMOVE AND REPLACE PHASE 3 LIMITS, EAST SIDE OF 17TH STREET AND NORTH SIDE OF 7TH AVE. CONTRACTOR TO MAINTAIN ONE-LANE/TWO-WAY TRAFFIC TO IMPACTED 7TH AVENUE RESIDENTS. PHASE 2 LIMITS TO PROVIDE ACCESS TO RESIDENTS AND PARK ON EAST SIDE OF 17TH STREET.

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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

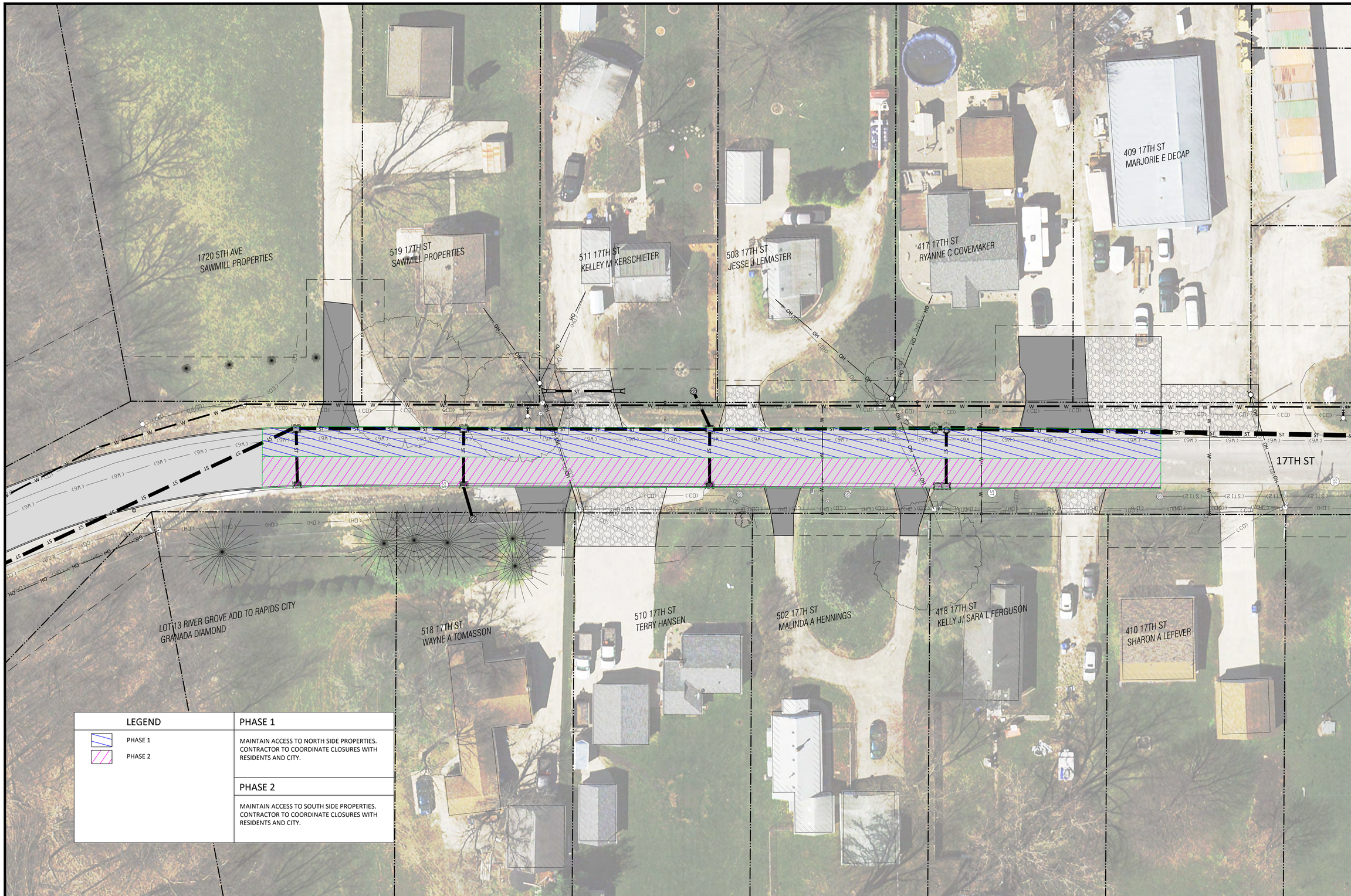
SHEET NAME:
TRAFFIC CONTROL PHASE 3

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
J.04

May 12, 2023 - 1:20pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-J SHEETS.dwg



LEGEND	PHASE 1
PHASE 1	MAINTAIN ACCESS TO NORTH SIDE PROPERTIES. CONTRACTOR TO COORDINATE CLOSURES WITH RESIDENTS AND CITY.
PHASE 2	**PHASE 2**
	MAINTAIN ACCESS TO SOUTH SIDE PROPERTIES. CONTRACTOR TO COORDINATE CLOSURES WITH RESIDENTS AND CITY.

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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
TRAFFIC CONTROL

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
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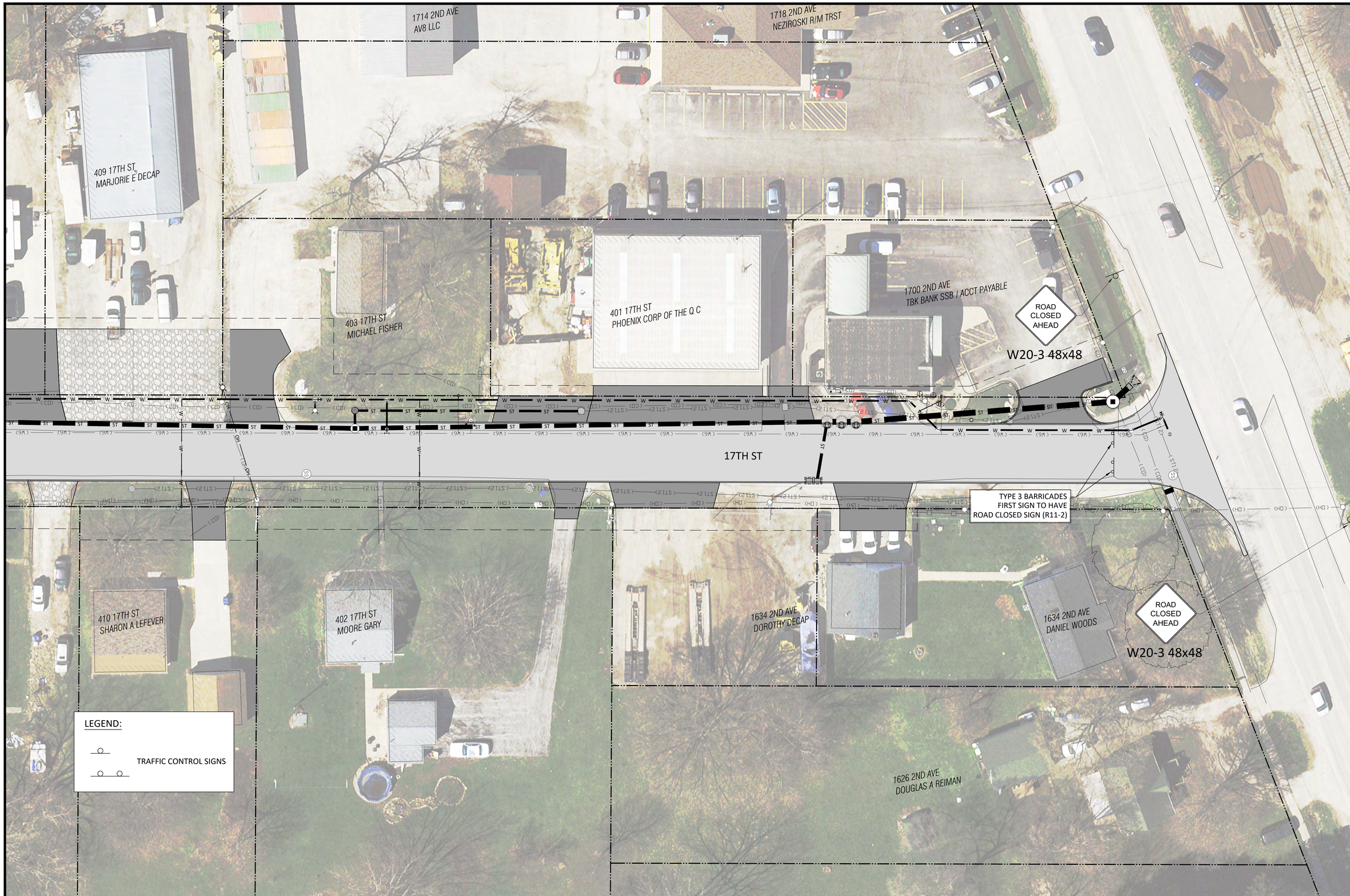
May 12, 2023 - 1:20pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-J SHEETS.dwg



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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

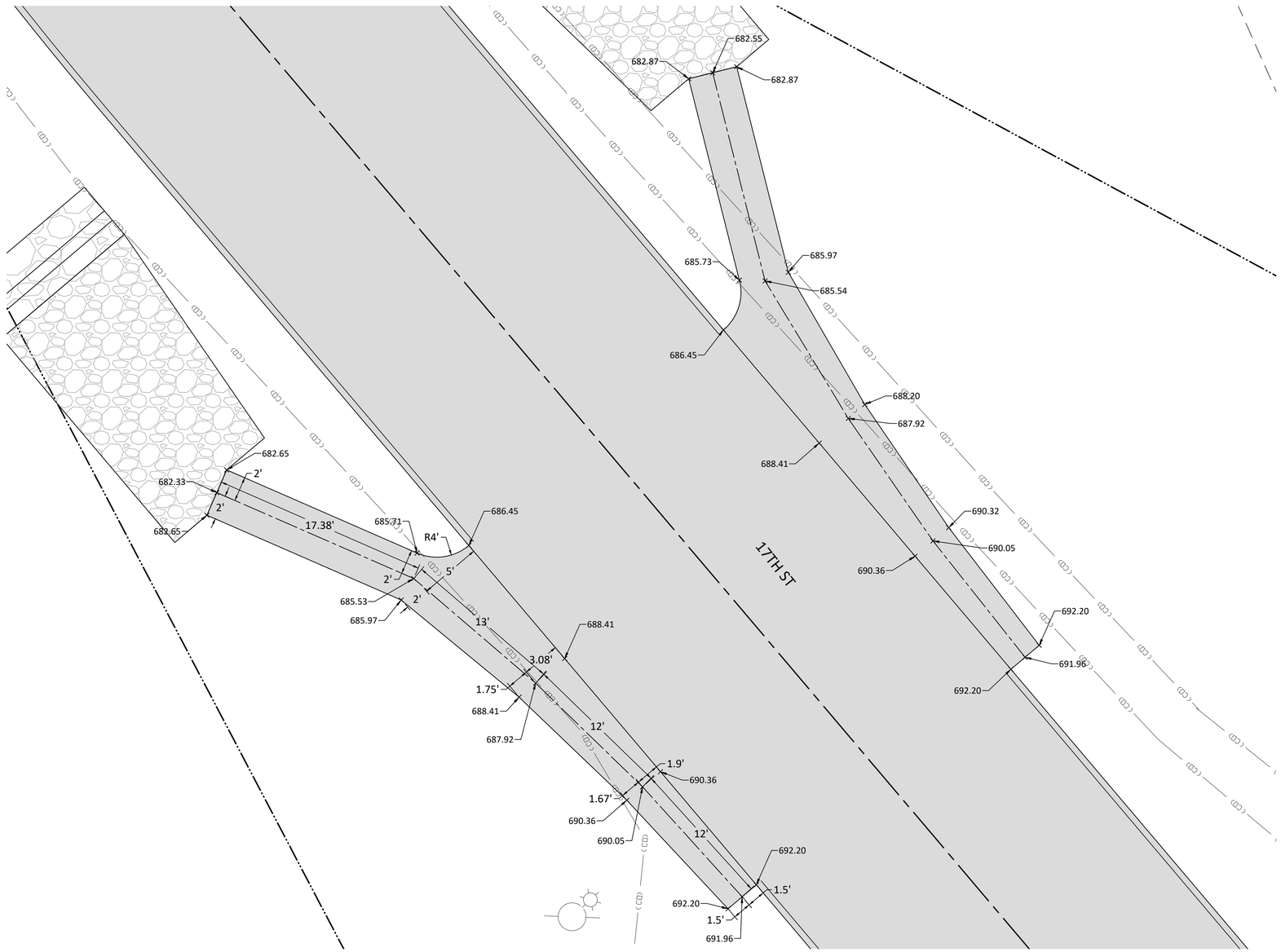
CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
TRAFFIC CONTROL

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
J.06



NOTE:

FULL CURB DROP ALONG TYPE A GUTTER. SEE STANDARD 606101-05 FOR CONSTRUCTION DETAILS

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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

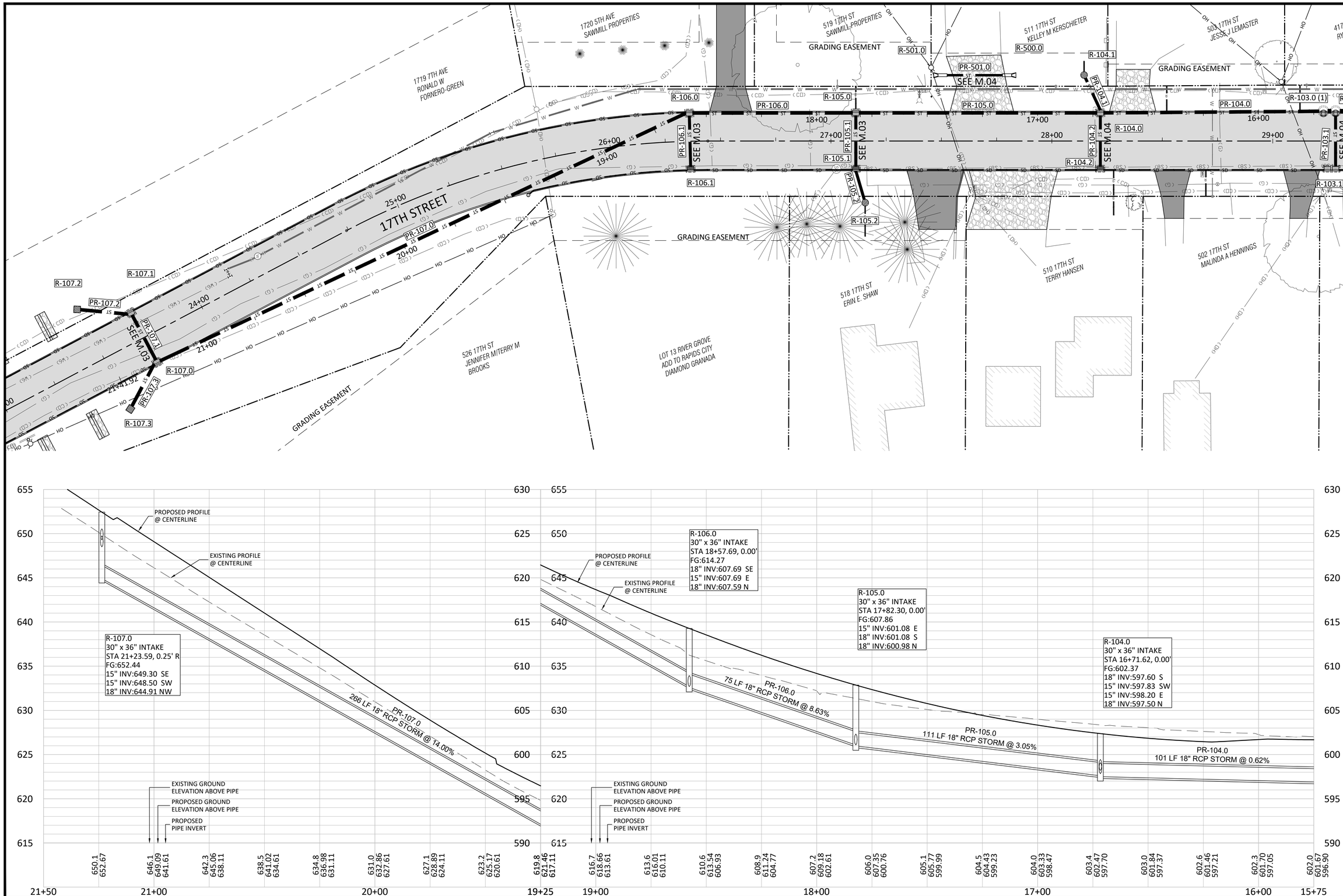
SHEET NAME:
TYPE A GUTTER DETAILS

PROJECT NO.:
210237

DESIGN PROFESSIONAL:
BOELK

SHEET NUMBER:
L.01

May 12, 2023 - 1:20pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-L SHEETS.dwg



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ENGINEER:

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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
STORM PLAN & PROFILE

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
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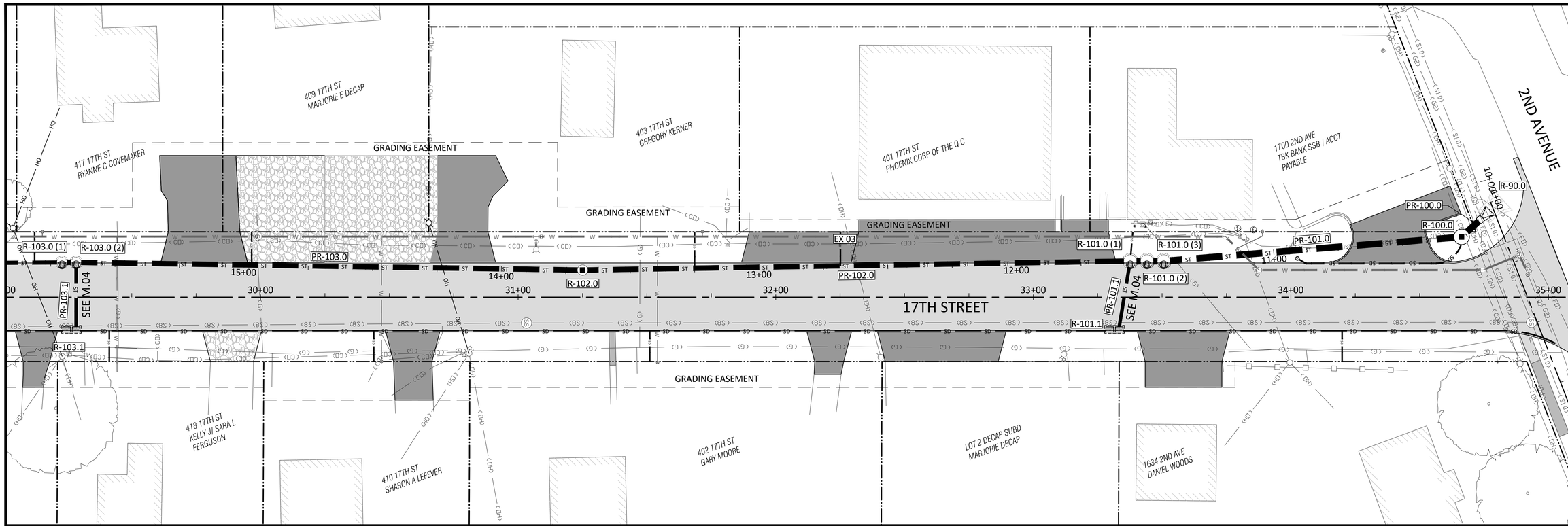

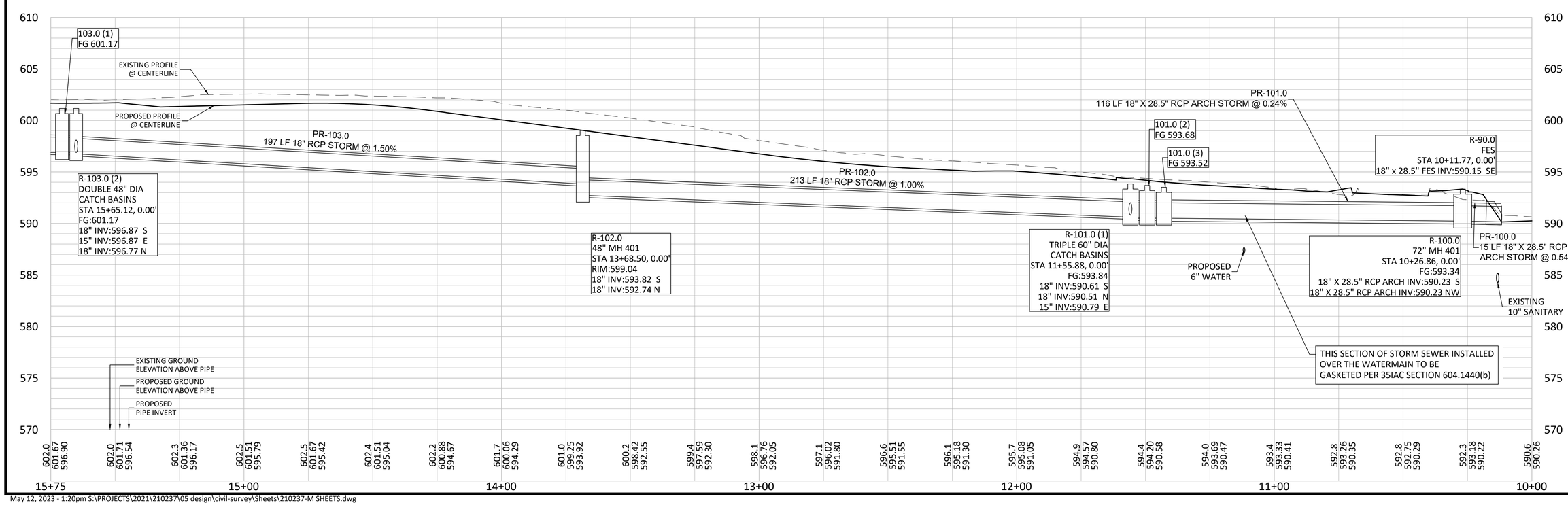

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ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
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PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

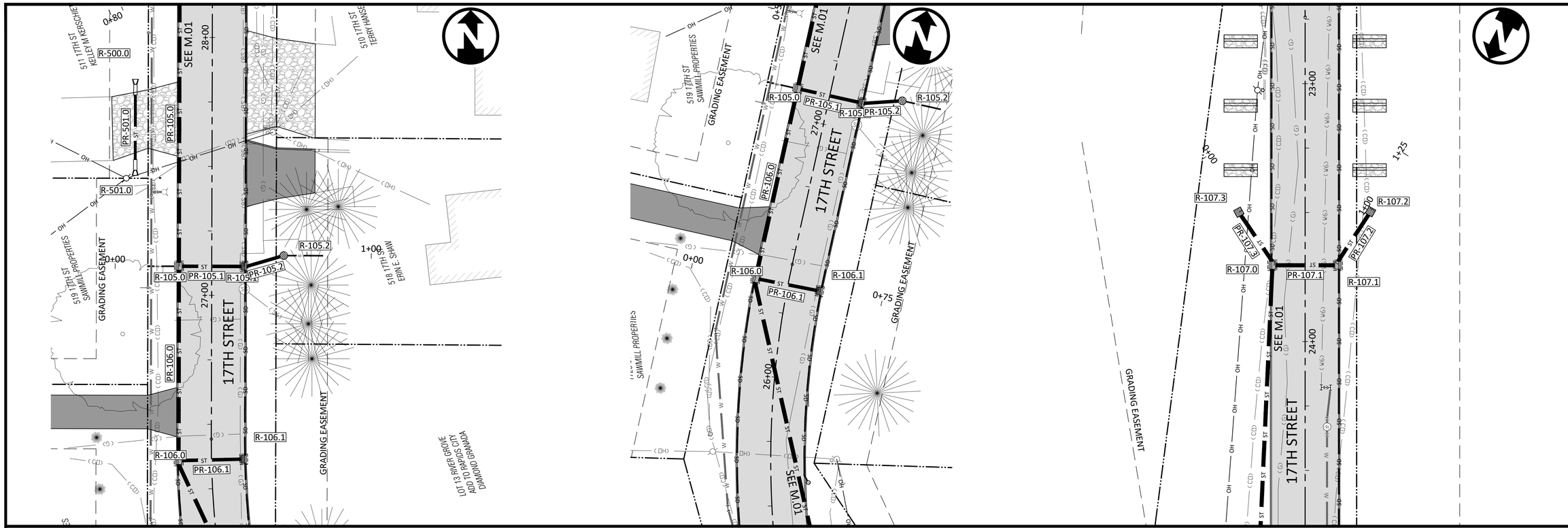
CLIENT NAME:
VILLAGE OF RAPIDS CITY

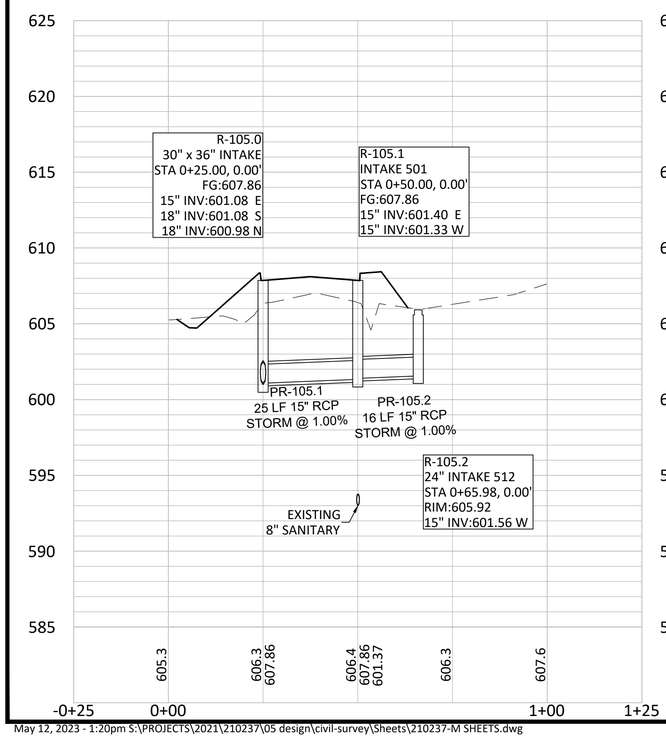
SHEET NAME:
STORM PLAN & PROFILE

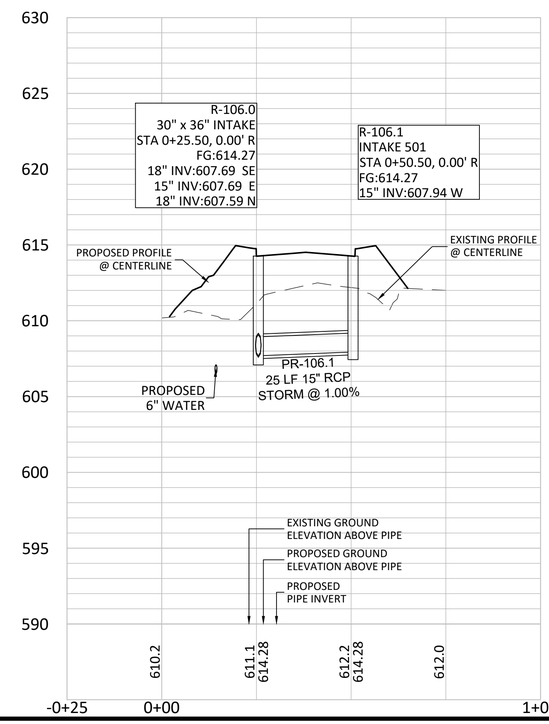
DESIGN PROFESSIONAL:
BOELK

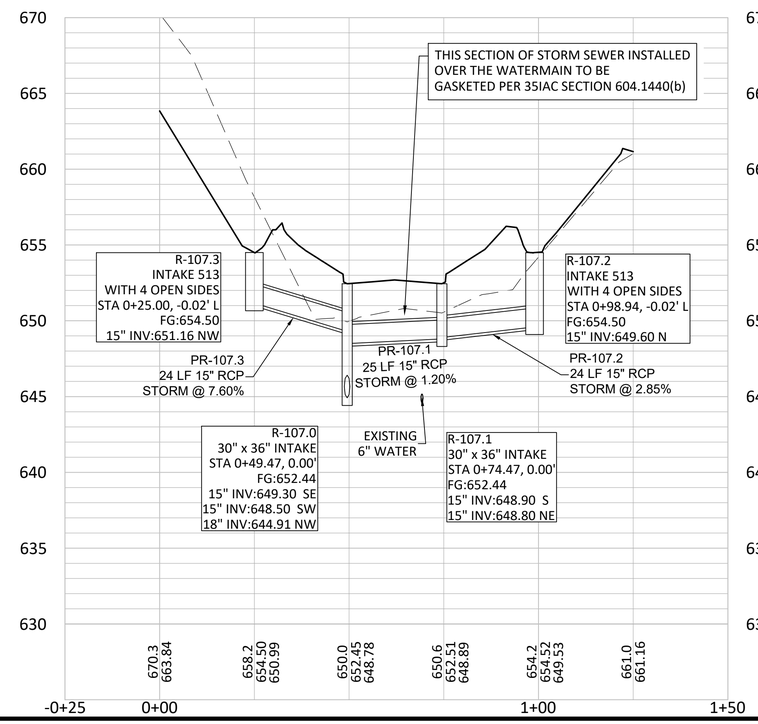
PROJECT NO.:
210237

SHEET NUMBER:
M.02









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ENGINEER:
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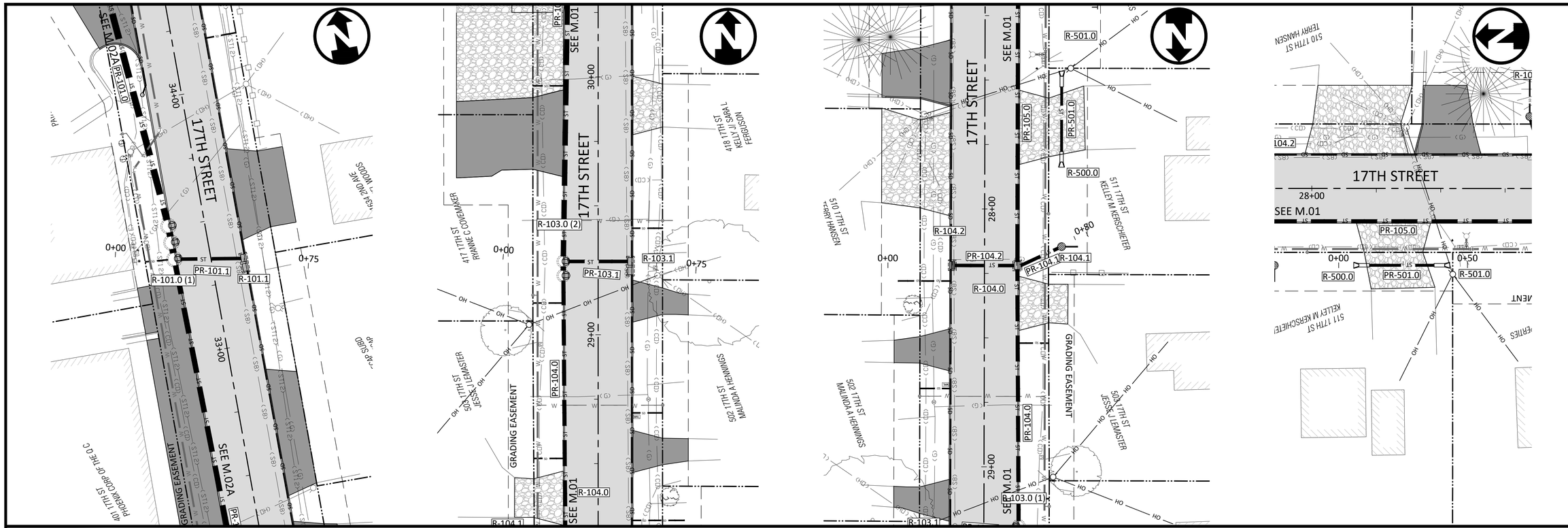
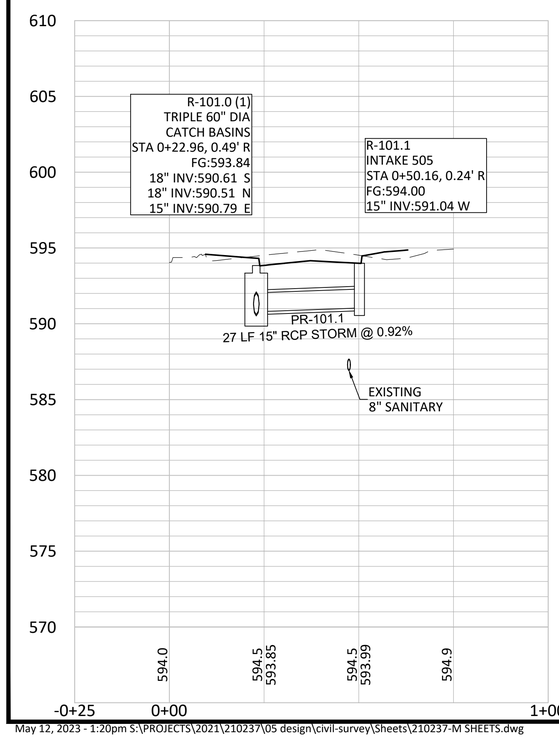
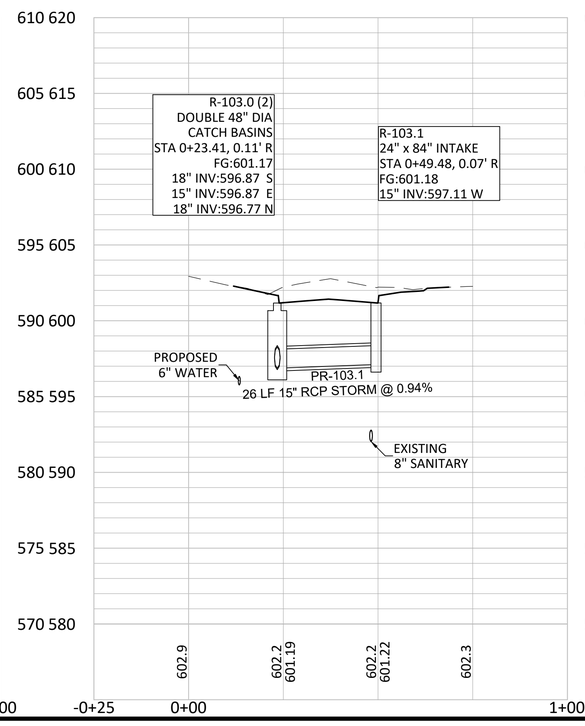
DRAWING LOG

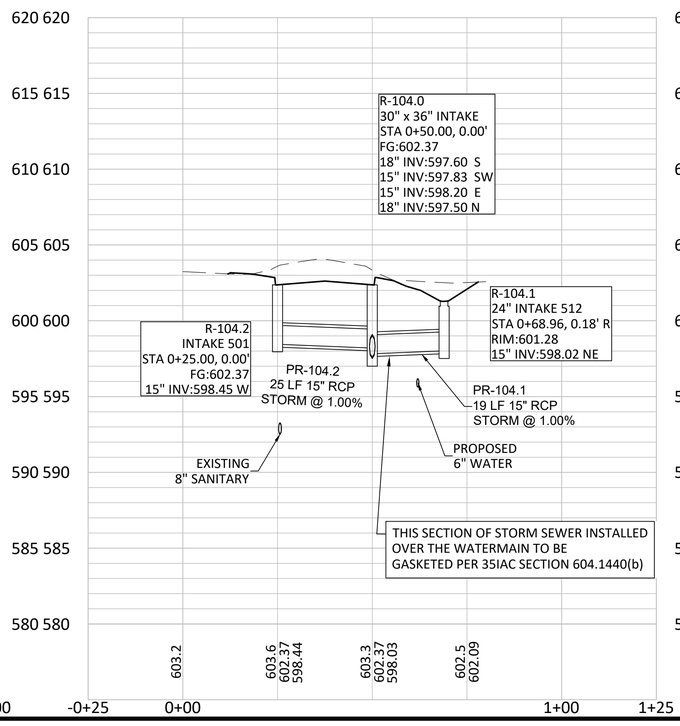
REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

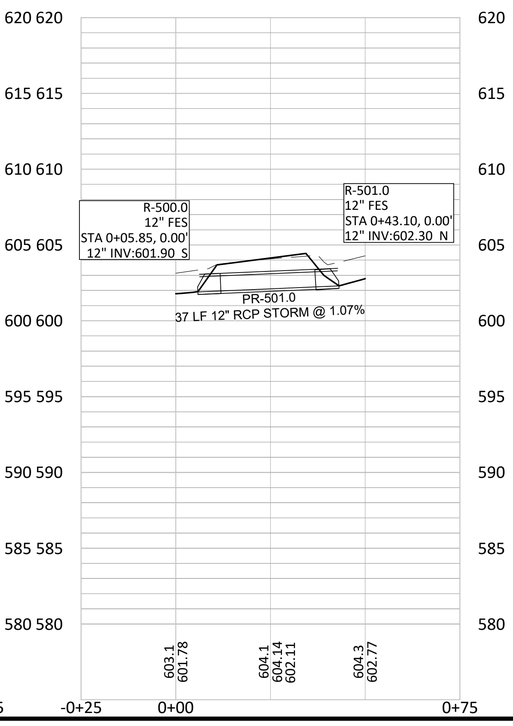
PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
SHEET NAME: STORM PLAN & PROFILE
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: M.03











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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
SHEET NAME: STORM PLAN & PROFILE
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: M.04

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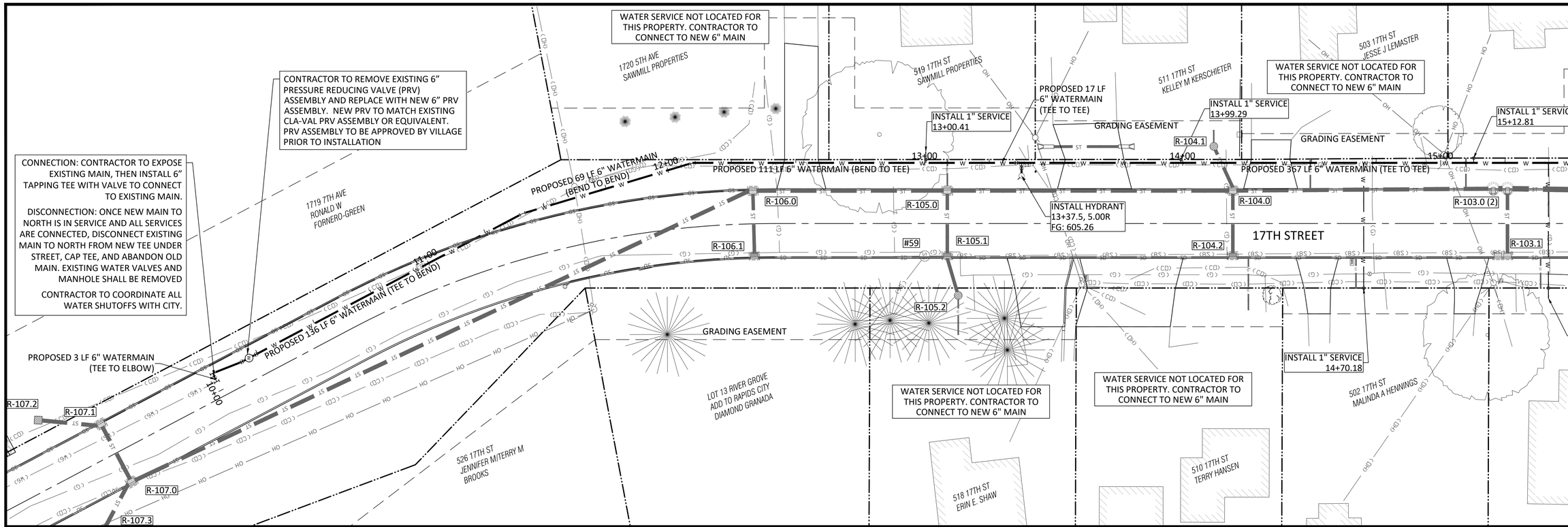

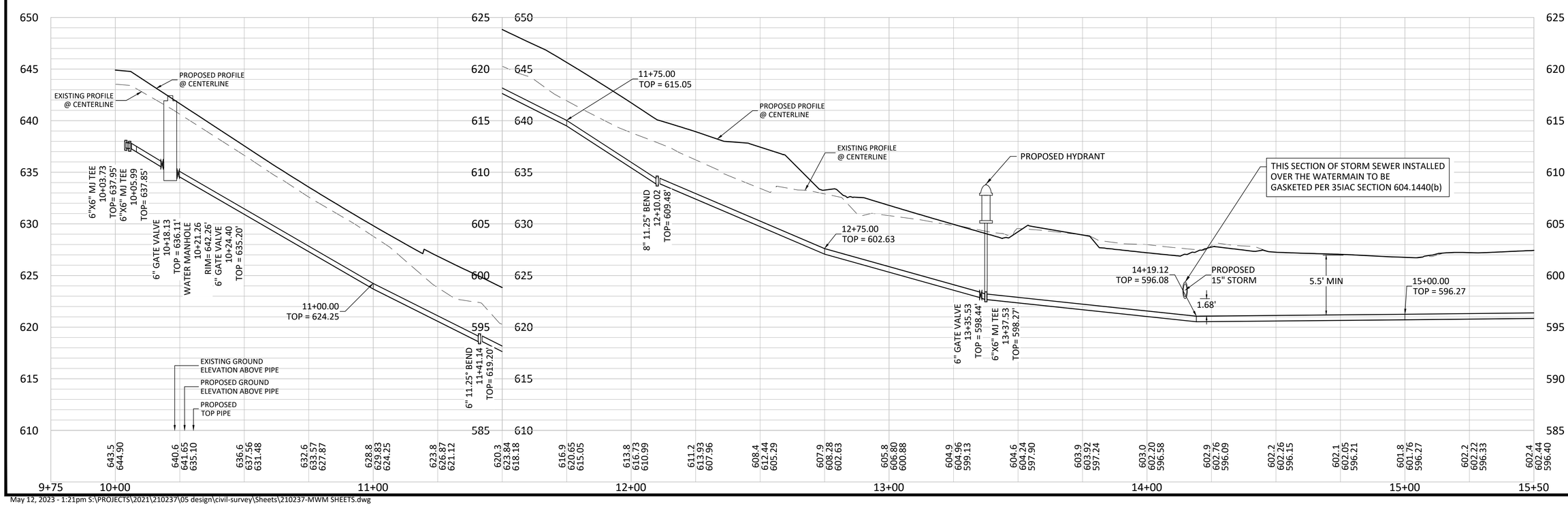

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY
SHEET NAME: WATER PLAN & PROFILE
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: MWM.01

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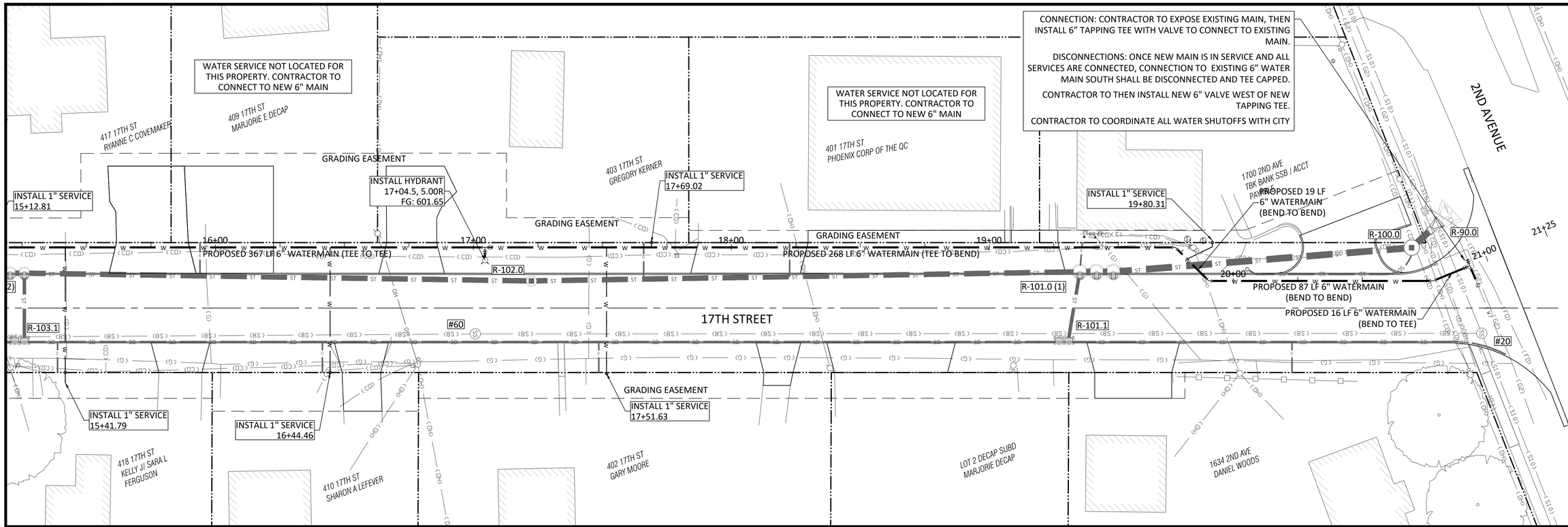

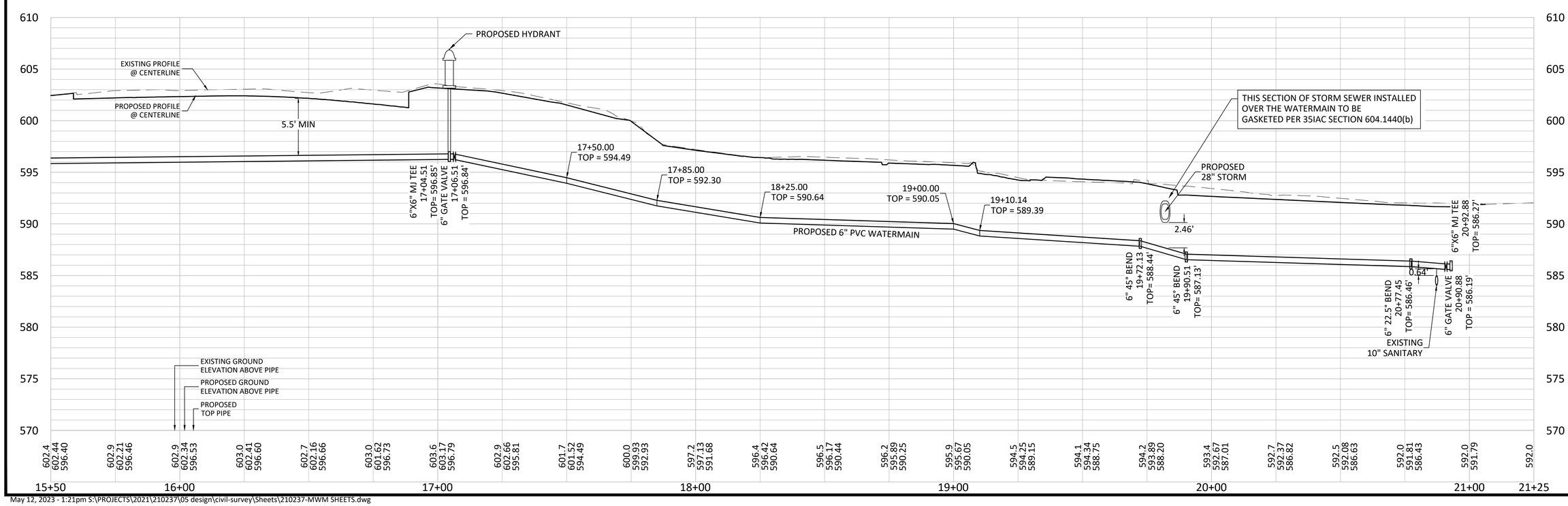

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REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

DRAWING LOG

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: WATER PLAN & PROFILE
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: MWM.02

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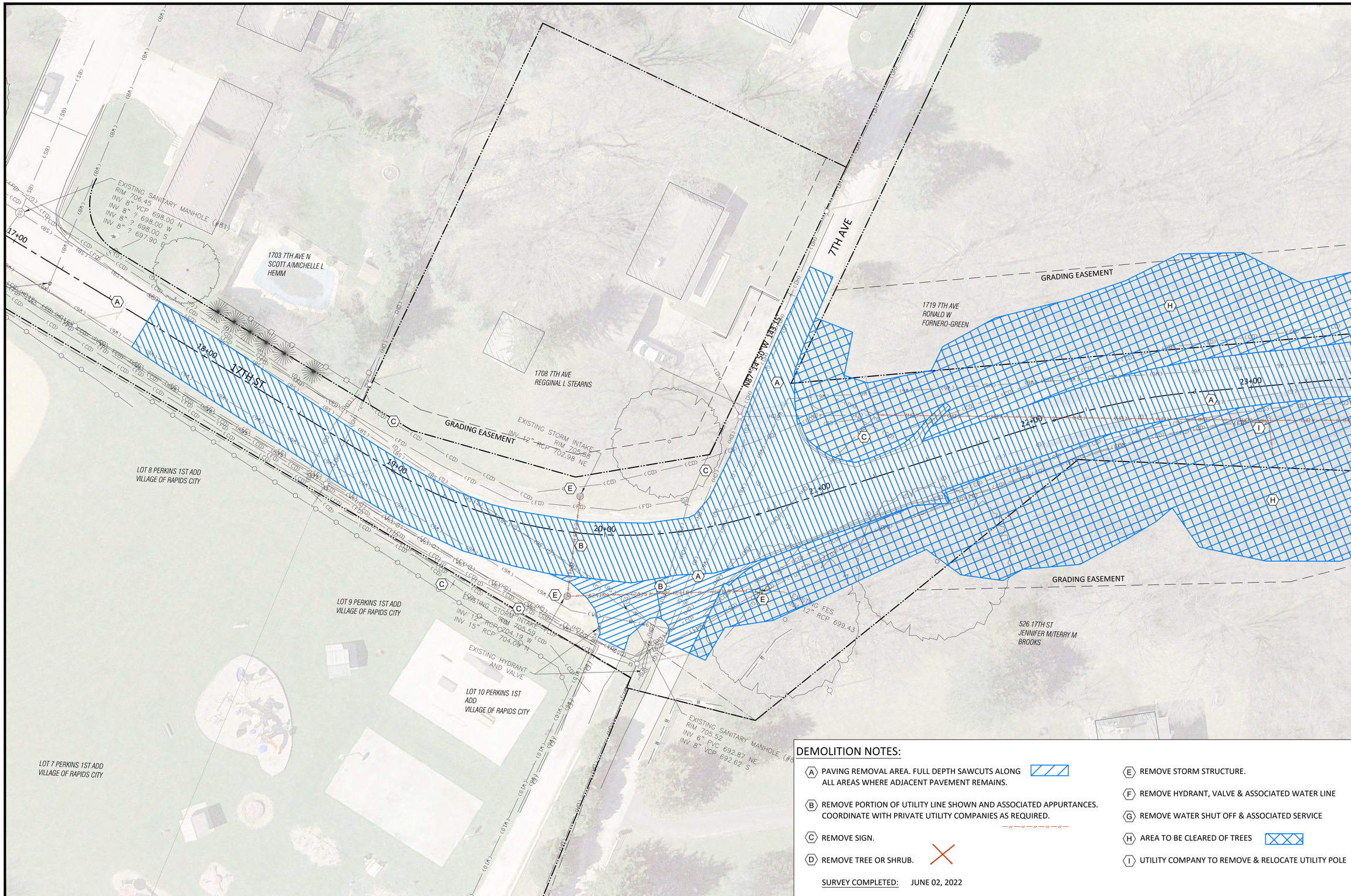

DEMOLITION NOTES:

- (A) PAVING REMOVAL AREA. FULL DEPTH SAWCUTS ALONG ALL AREAS WHERE ADJACENT PAVEMENT REMAINS.
- (B) REMOVE PORTION OF UTILITY LINE SHOWN AND ASSOCIATED APPURTANCES. COORDINATE WITH PRIVATE UTILITY COMPANIES AS REQUIRED.
- (C) REMOVE SIGN.
- (D) REMOVE TREE OR SHRUB.
- (E) REMOVE STORM STRUCTURE.
- (F) REMOVE HYDRANT, VALVE & ASSOCIATED WATER LINE
- (G) REMOVE WATER SHUT OFF & ASSOCIATED SERVICE
- (H) AREA TO BE CLEARED OF TREES
- (I) UTILITY COMPANY TO REMOVE & RELOCATE UTILITY POLE

SURVEY COMPLETED: JUNE 02, 2022

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-IVE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION RAPIDS CITY, IL

CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: DEMOLITION PLAN

DESIGN PROFESSIONAL: BOELK

PROJECT NO.: 210237

SHEET NUMBER: R.01

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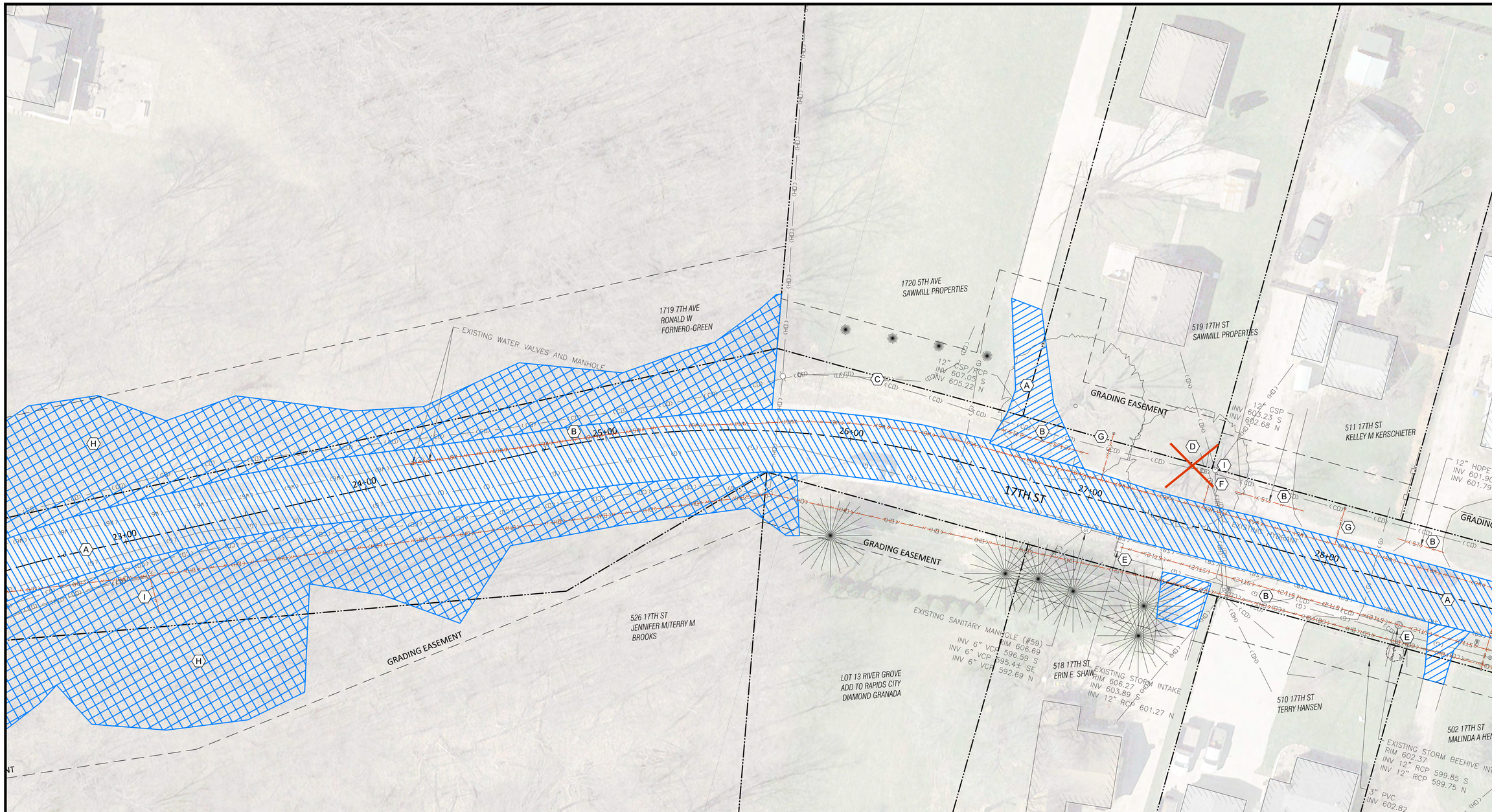

DEMOLITION NOTES:

- (A) PAVING REMOVAL AREA. FULL DEPTH SAWCUTS ALONG ALL AREAS WHERE ADJACENT PAVEMENT REMAINS.
- (B) REMOVE PORTION OF UTILITY LINE SHOWN AND ASSOCIATED APPURTANCES. COORDINATE WITH PRIVATE UTILITY COMPANIES AS REQUIRED.
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- (G) REMOVE WATER SHUT OFF & ASSOCIATED SERVICE
- (H) AREA TO BE CLEARED OF TREES
- (I) UTILITY COMPANY TO REMOVE & RELOCATE UTILITY POLE

SURVEY COMPLETED: JUNE 02, 2022

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ENGINEER:
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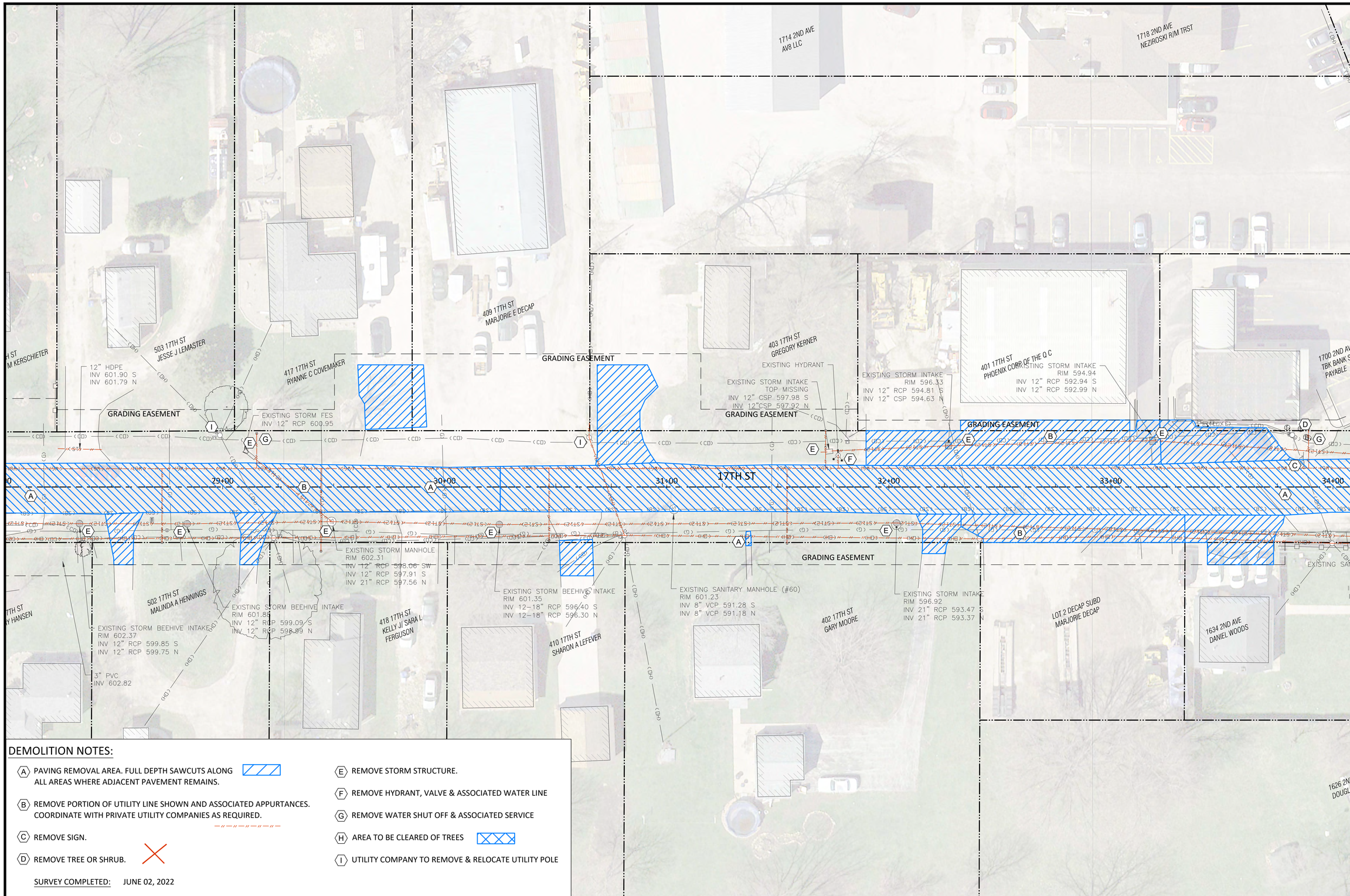
DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-IVE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: DEMOLITION PLAN
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: R.02



DEMOLITION NOTES:

- (A) PAVING REMOVAL AREA. FULL DEPTH SAWCUTS ALONG ALL AREAS WHERE ADJACENT PAVEMENT REMAINS.
- (B) REMOVE PORTION OF UTILITY LINE SHOWN AND ASSOCIATED APPURTANCES. COORDINATE WITH PRIVATE UTILITY COMPANIES AS REQUIRED.
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- (D) REMOVE TREE OR SHRUB.
- (E) REMOVE STORM STRUCTURE.
- (F) REMOVE HYDRANT, VALVE & ASSOCIATED WATER LINE
- (G) REMOVE WATER SHUT OFF & ASSOCIATED SERVICE
- (H) AREA TO BE CLEARED OF TREES
- (I) UTILITY COMPANY TO REMOVE & RELOCATE UTILITY POLE

SURVEY COMPLETED: JUNE 02, 2022

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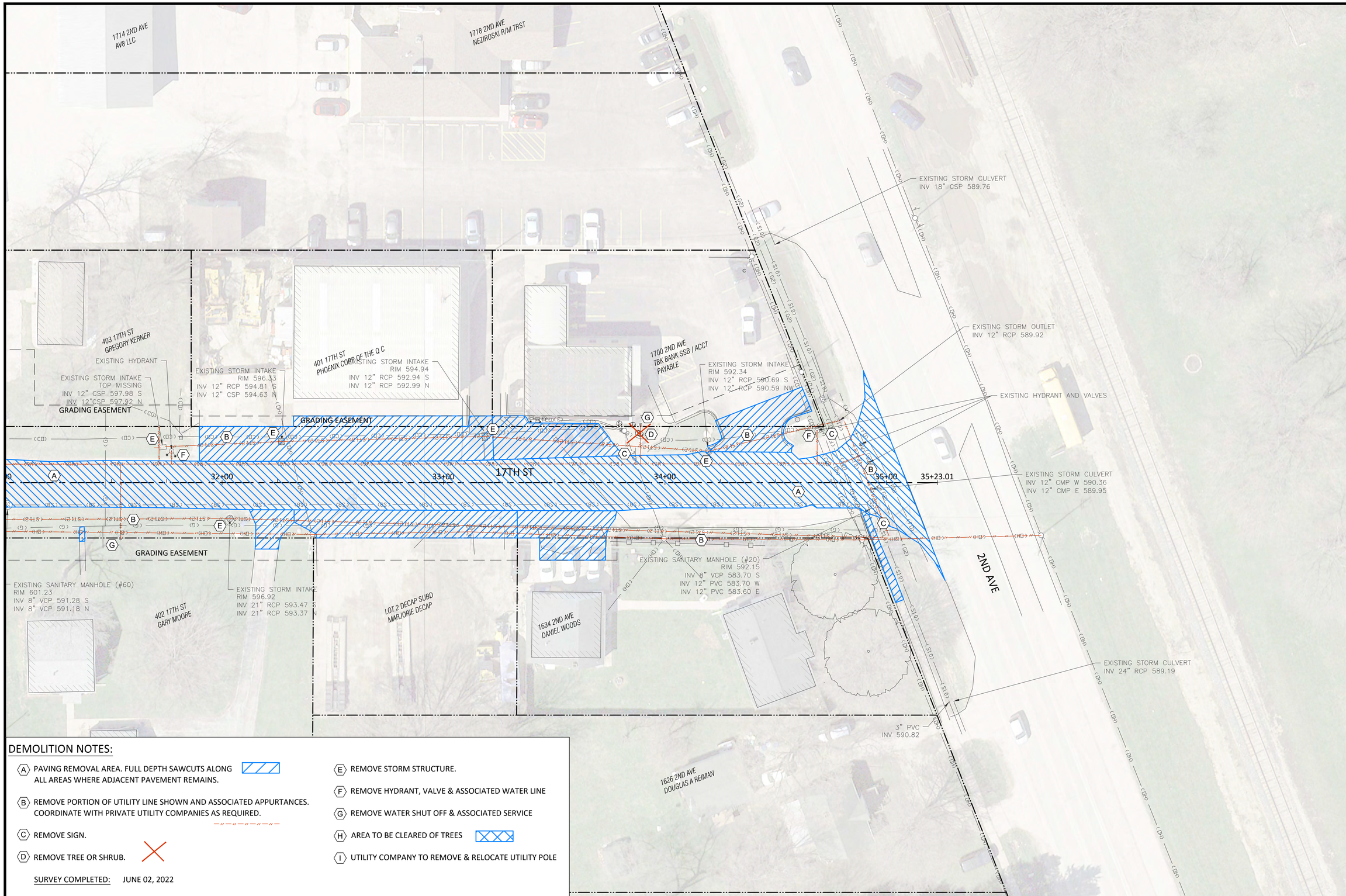
DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL
CLIENT NAME: VILLAGE OF RAPIDS CITY

SHEET NAME: DEMOLITION PLAN
DESIGN PROFESSIONAL: BOELK
PROJECT NO.: 210237
SHEET NUMBER: R.03



DEMOLITION NOTES:

- (A) PAVING REMOVAL AREA. FULL DEPTH SAWCUTS ALONG ALL AREAS WHERE ADJACENT PAVEMENT REMAINS.
- (B) REMOVE PORTION OF UTILITY LINE SHOWN AND ASSOCIATED APPURTANCES. COORDINATE WITH PRIVATE UTILITY COMPANIES AS REQUIRED.
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- (E) REMOVE STORM STRUCTURE.
- (F) REMOVE HYDRANT, VALVE & ASSOCIATED WATER LINE
- (G) REMOVE WATER SHUT OFF & ASSOCIATED SERVICE
- (H) AREA TO BE CLEARED OF TREES
- (I) UTILITY COMPANY TO REMOVE & RELOCATE UTILITY POLE

SURVEY COMPLETED: JUNE 02, 2022

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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-IVE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

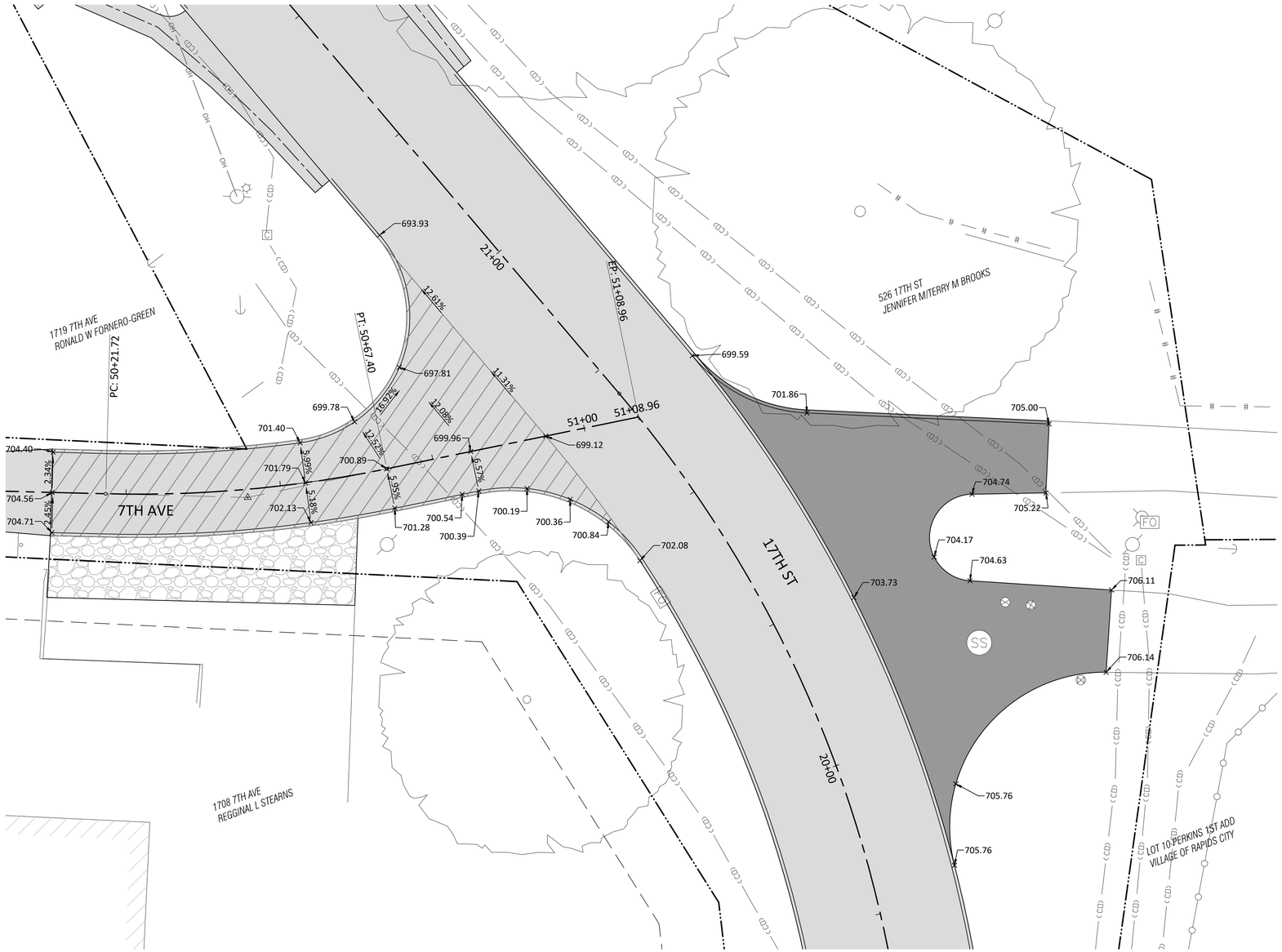
CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
DEMOLITION PLAN

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
R.04



ADA CRITERIA NOTE:

DUE TO GRADES OF EXISTING CONDITIONS AD CONNECTIONS TO EXISTING PROPERTIES, NOT ALL ELEMENTS OF ADA ARE ABLE TO BE MET.

LEGEND

- PAVEMENT WARPING AREA
- DETECTABLE WARNING PANEL
- 6" PCC SIDEWALK

NOTES:

1. ALL ELEVATIONS ARE GUTTER OR TOP OF SLAB UNLESS OTHERWISE NOTED.
2. REFER TO IDOT STANDARD 424001-11 FOR CONSTRUCTION DETAILS.
3. 1/2" EXPANSION TO BE USED AT BOC AND BOTTOM OF RAMP.

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

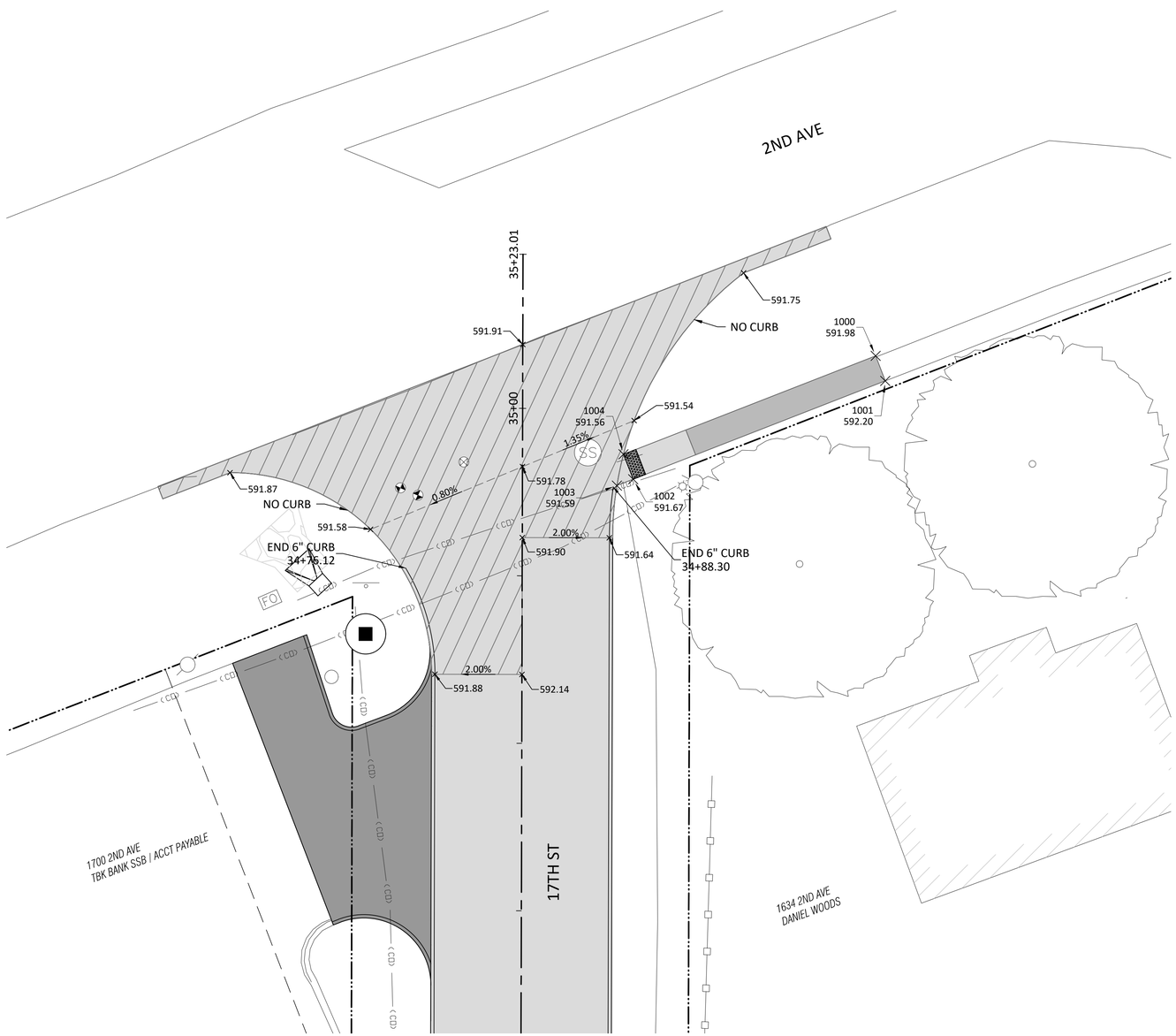
CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
17TH STREET AND 7TH AVE INTERSECTION

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
S.01



NORTHWEST QUADRANT												
POINT 1	ELEV 1	POINT 2	ELEV 2	SIDEWALK DESIGNATION	LENGTH	▲ ELEV	SLOPE		Northing 1	Easting 1	Northing 2	Easting 2
1000	591.98	1001	592.20	Ramp Cross Slope	4.00	0.22	5.41%		1789374.59	2246376.37	1789370.86	2246377.80
1001	592.20	1002	591.67	Ramp Running Slope	40.41	-0.53	-1.30%		1789370.86	2246377.80	1789356.17	2246340.15
1002	591.67	1003	591.59	Ramp Running Slope	2.61	-0.08	-3.07%		1789356.17	2246340.15	1789355.22	2246337.72
1002	591.67	1004	591.56	Crosswalk Cross Slope No Yield Condition	4.00	-0.11	-2.75%		1789356.17	2246340.15	1789359.90	2246338.70
1003	591.59	1004	591.56	Crosswalk Cross Slope No Yield Condition	4.78	-0.03	-0.63%		1789355.22	2246337.72	1789359.90	2246338.70
1004	591.56	1000	591.98	Ramp Running Slope	40.44	0.42	1.04%		1789359.90	2246338.70	1789374.59	2246376.37

ADA CRITERIA NOTE:

DUE TO GRADES OF EXISTING CONDITIONS AD CONNECTIONS TO EXISTING PROPERTIES, NOT ALL ELEMENTS OF ADA ARE ABLE TO BE MET.

LEGEND

- PAVEMENT WARPING AREA
- DETECTABLE WARNING PANEL
- 6" PCC SIDEWALK

NOTES:

1. ALL ELEVATIONS ARE GUTTER OR TOP OF SLAB UNLESS OTHERWISE NOTED.
2. REFER TO IDOT STANDARD 424001-11 FOR CONSTRUCTION DETAILS.
3. 1/2" EXPANSION TO BE USED AT BOC AND BOTTOM OF RAMP.

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
17TH STREET AND 2ND AVE
INTERSECTION AND SIDEWALK

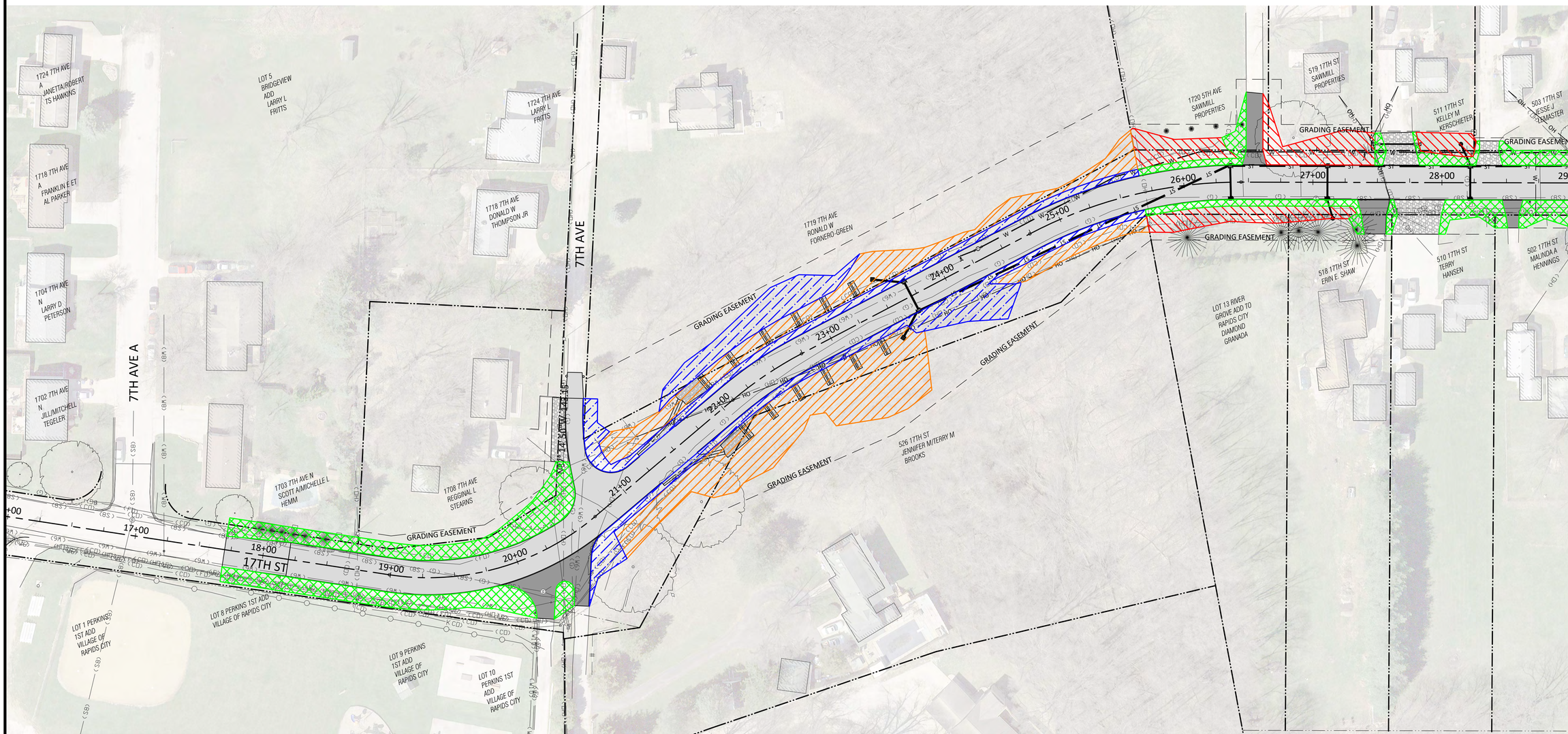
DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
S.02

LEGEND

- RECP FOR SLOPES GREATER THAN 4:1 AND IN LOCATIONS AS SHOWN AND AREA TO BE SEEDED WITH CLASS 1
- AREA TO BE SEEDED WITH CLASS 1
- RECP FOR SLOPES GREATER THAN 4:1 AND IN LOCATIONS AS SHOWN AND AREA TO BE SEEDED WITH NATIVE MIX
- AREA TO BE SEEDED WITH NATIVE PRAIRIE MIX



ENGINEER:

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0 20 40

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

DRAWING LOG

PROJECT NAME: 17TH STREET RECONSTRUCTION RAPIDS CITY, IL

CLIENT NAME: VILLAGE OF RAPIDS CITY

DESIGN PROFESSIONAL: BOELK

SHEET NAME: RESTORATION PLAN

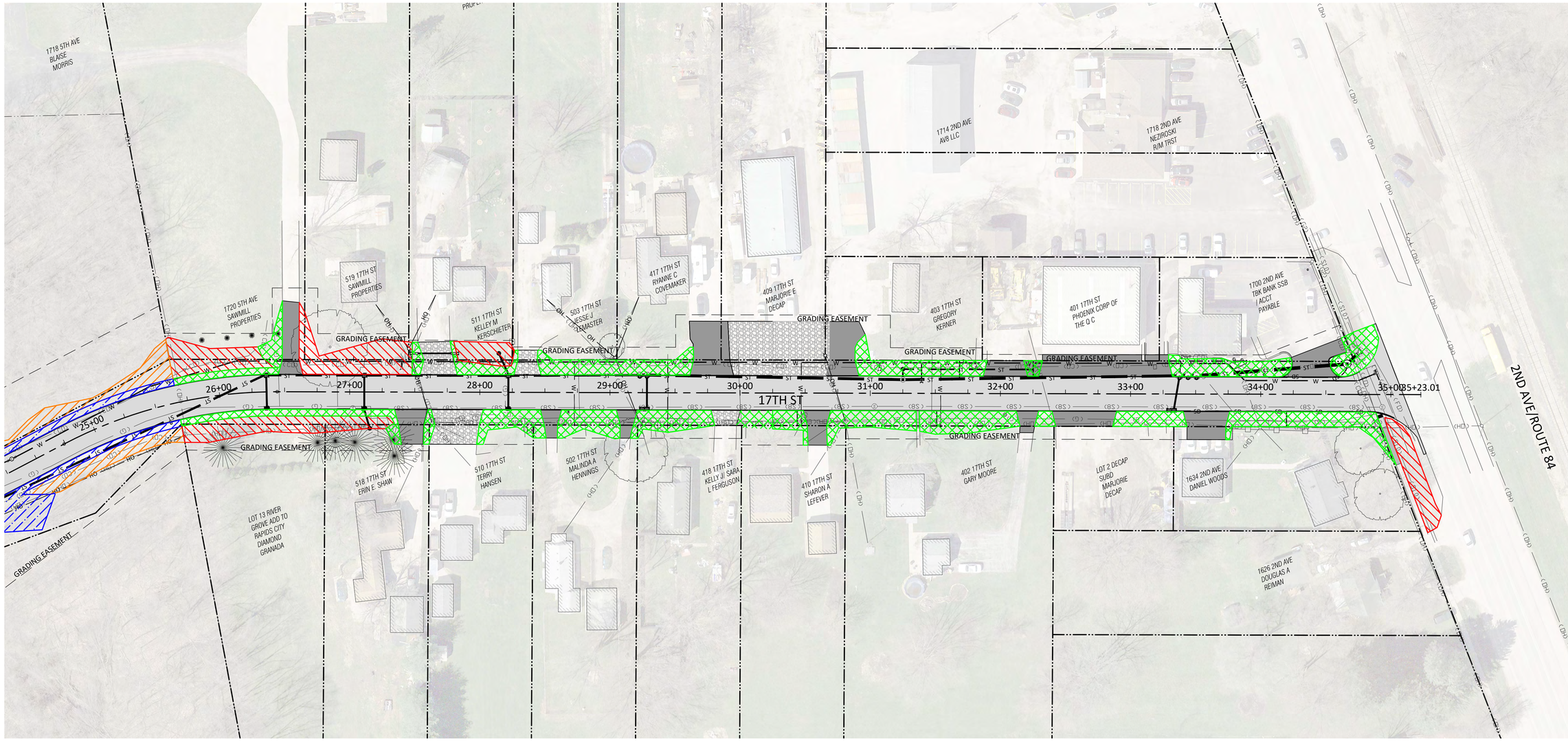
PROJECT NO.: 210237

SHEET NUMBER: U.01

May 12, 2023 - 1:22pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-U SHEETS.dwg

LEGEND

- RECP FOR SLOPES GREATER THAN 4:1 AND IN LOCATIONS AS SHOWN AND AREA TO BE SEEDED WITH CLASS 1
- AREA TO BE SEEDED WITH CLASS 1
- RECP FOR SLOPES GREATER THAN 4:1 AND IN LOCATIONS AS SHOWN AND AREA TO BE SEEDED WITH NATIVE MIX
- AREA TO BE SEEDED WITH NATIVE PRAIRIE MIX



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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME: 17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME: VILLAGE OF RAPIDS CITY

DESIGN PROFESSIONAL: BOELK

PROJECT NO.: 210237

SHEET NAME: RESTORATION PLAN

SHEET NUMBER: U.02

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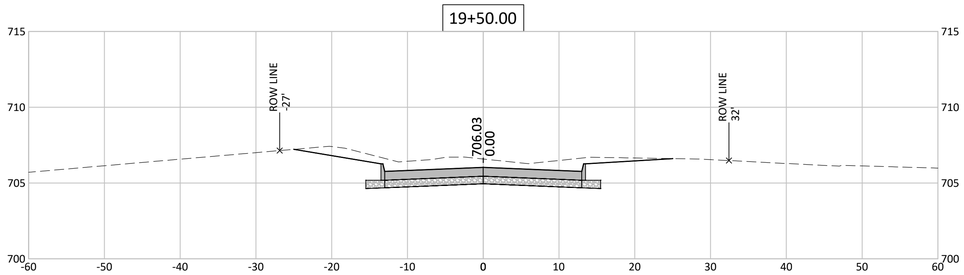

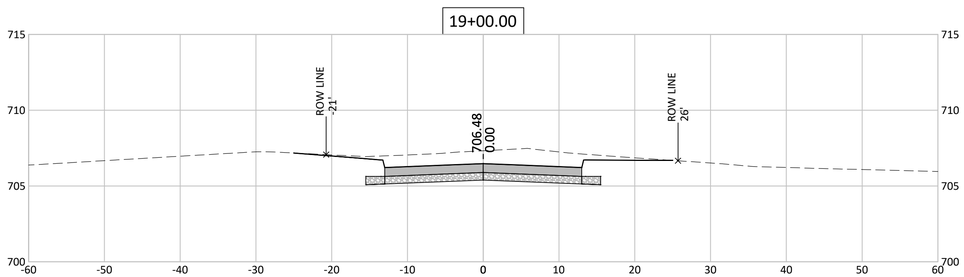

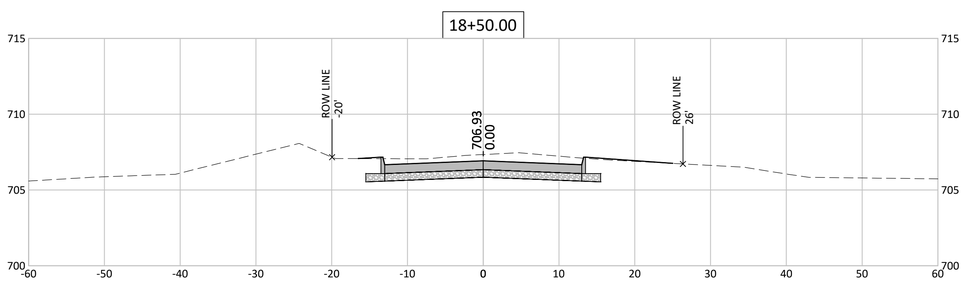

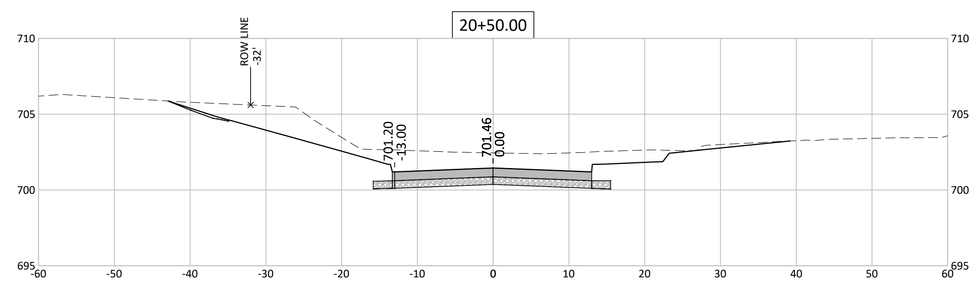

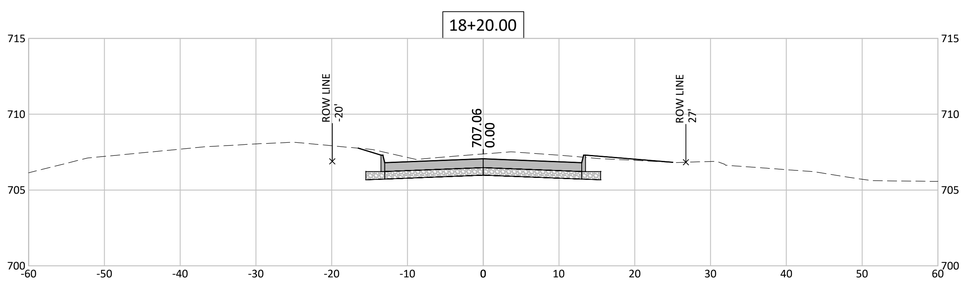

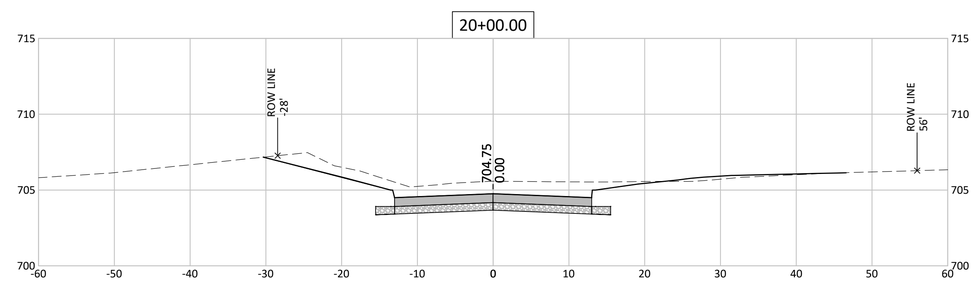

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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

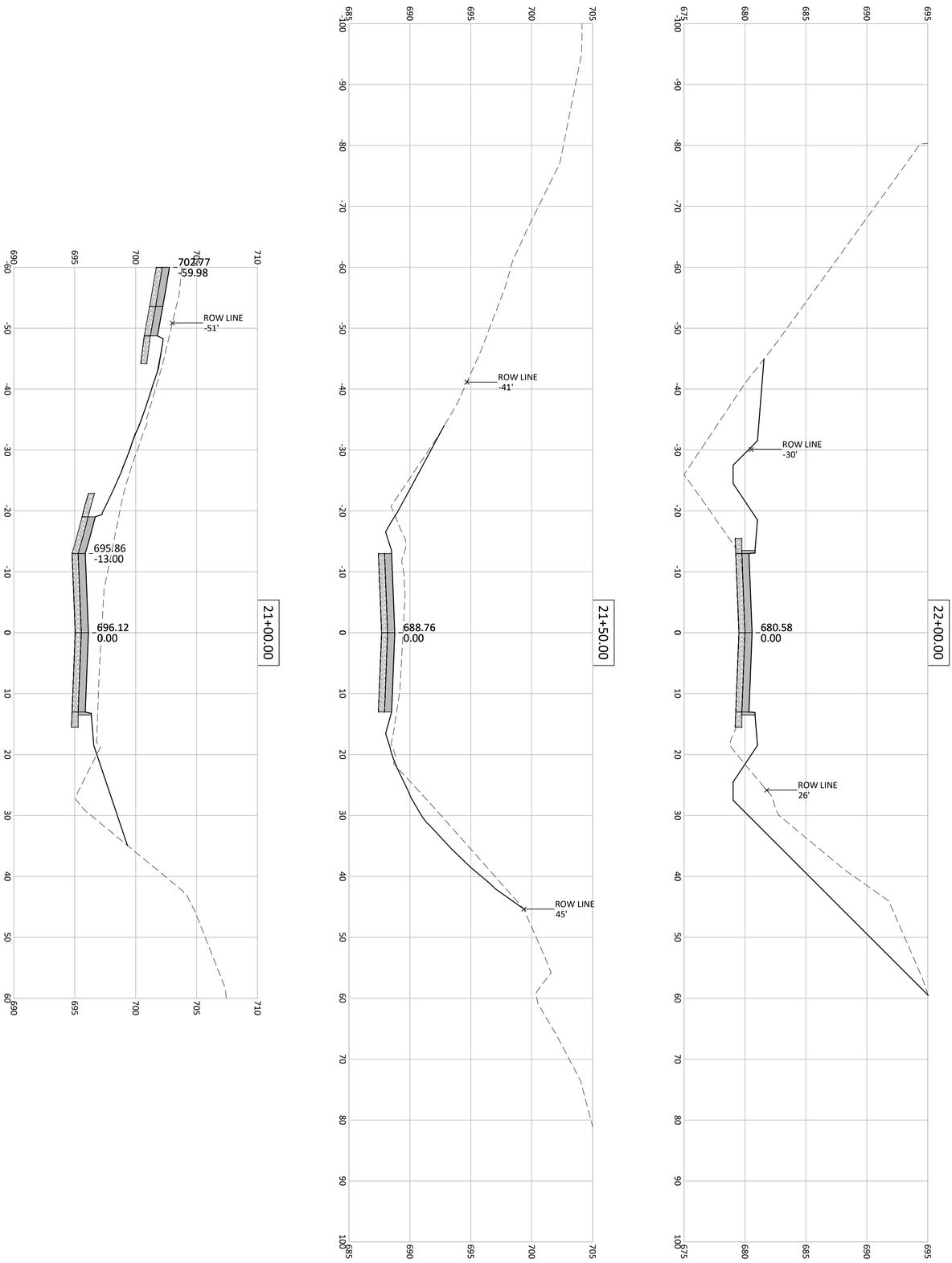
CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
CROSS SECTIONS
BASE BID

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
W.01



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SHEET NUMBER: W.02	PROJECT NO.: 210237 / DESIGN PROFESSIONAL: BOELK	CLIENT NAME: VILLAGE OF RAPIDS CITY	WWW.AXIOM-CON.COM | (319) 519-6220

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

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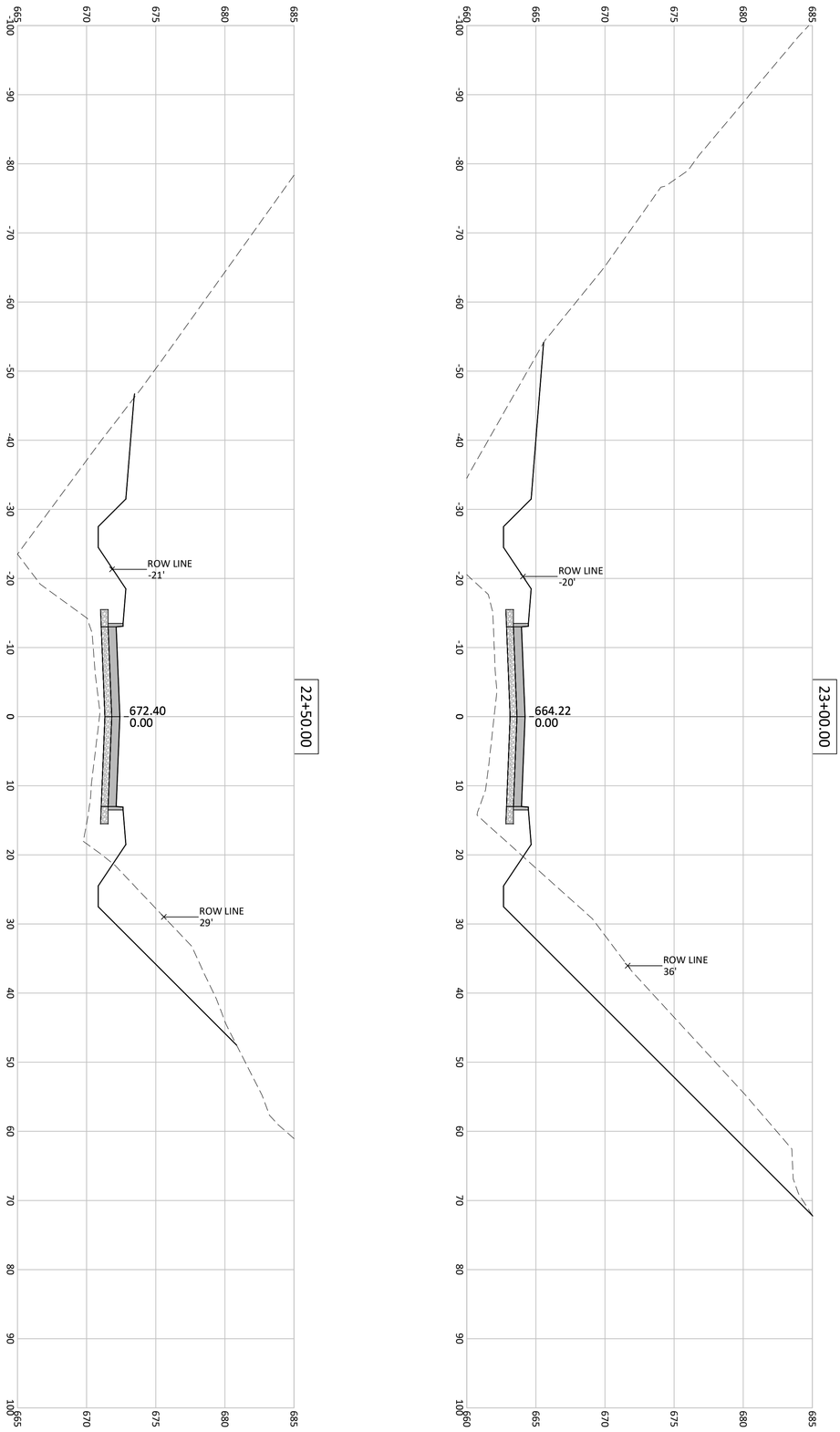

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SHEET NUMBER: W.03	PROJECT NO.: 210237 / DESIGN PROFESSIONAL: BOELK	CLIENT NAME: VILLAGE OF RAPIDS CITY	WWW.AXIOM-CON.COM | (319) 519-6220

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

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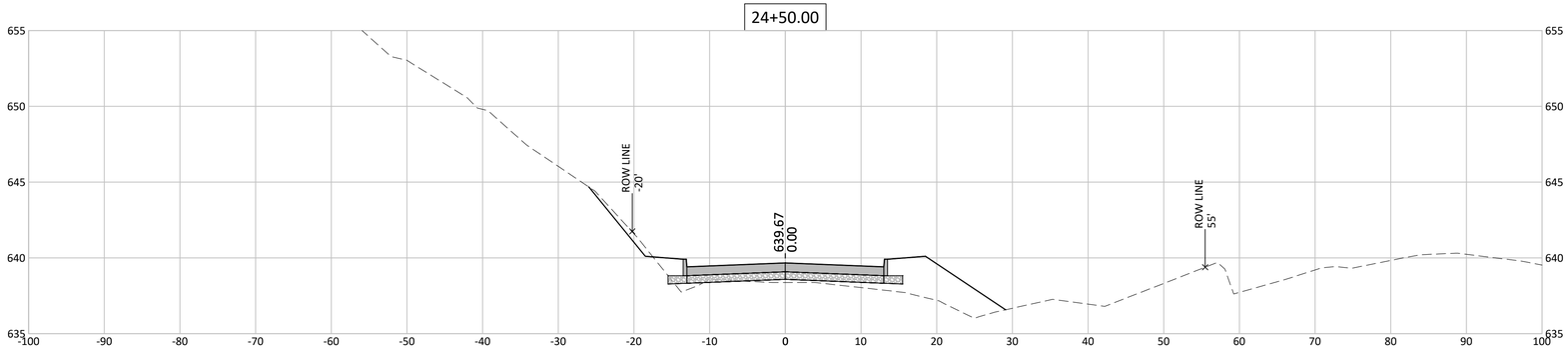

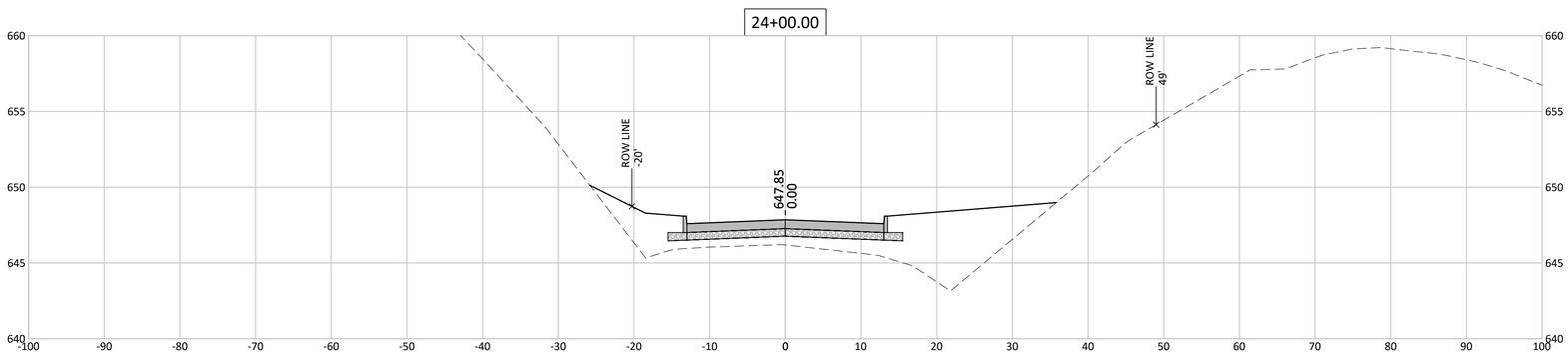

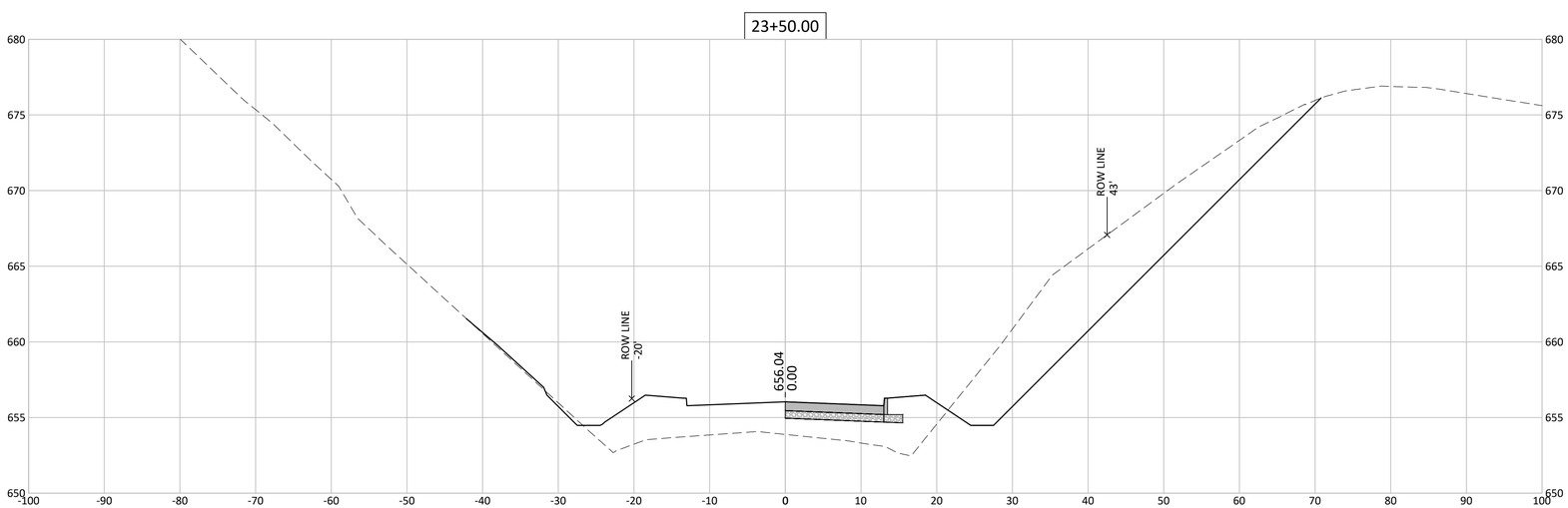

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-1/E REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
CROSS SECTIONS
BASE BID

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
W.04

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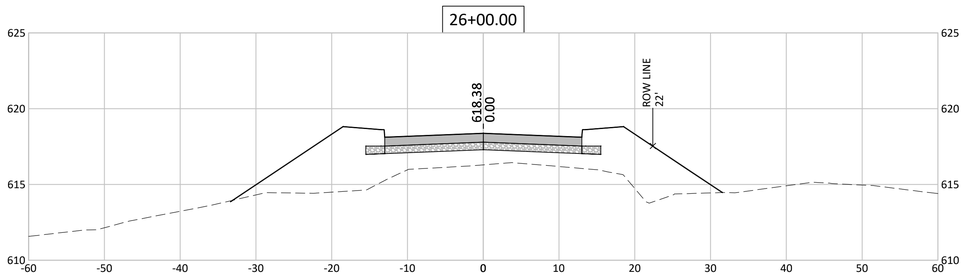

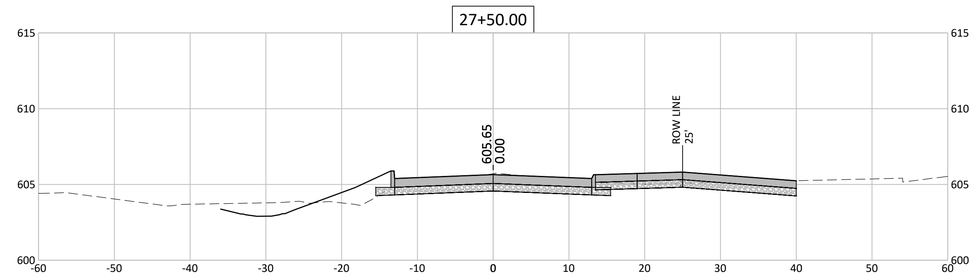

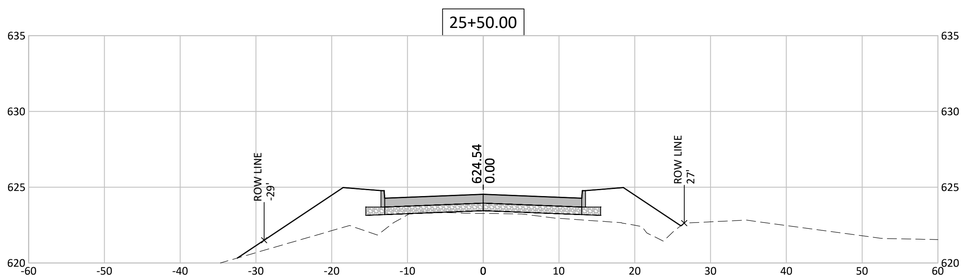

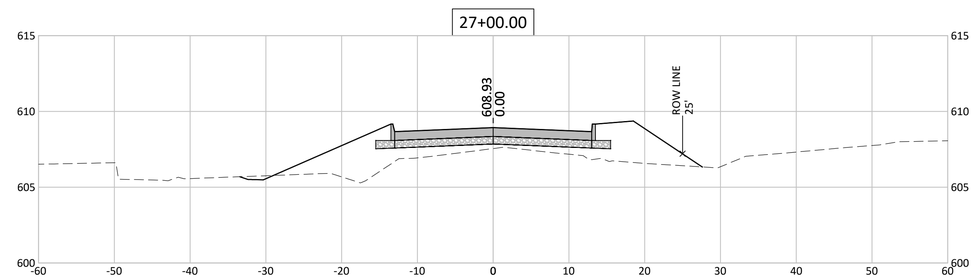

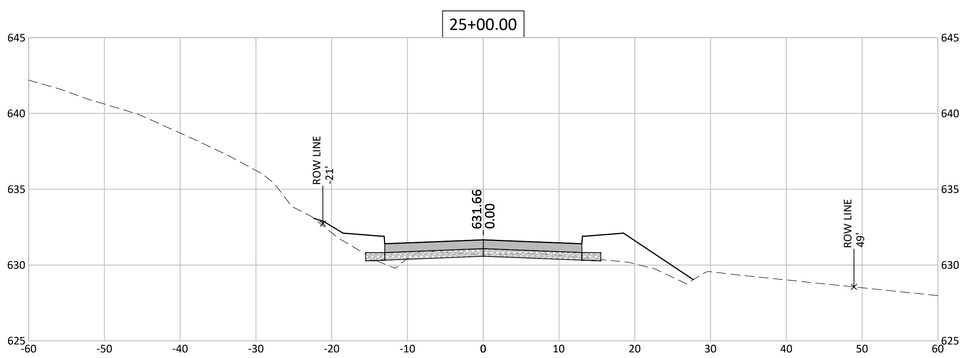

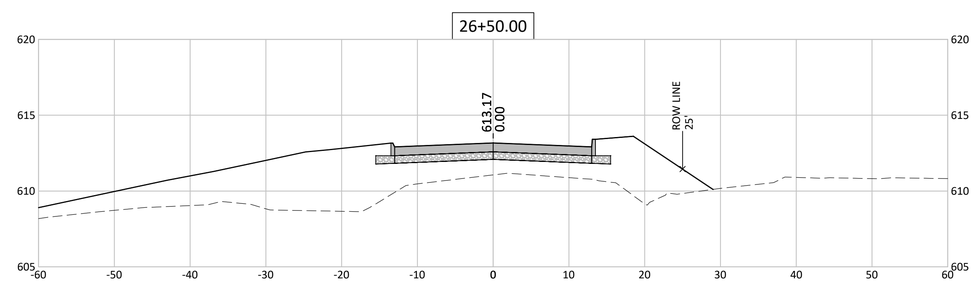

ENGINEER:
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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
	ISSUED FOR CONSTRUCTION SET-VE REVISIONS	05-12-2023

PROJECT NAME:
17TH STREET RECONSTRUCTION
RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
CROSS SECTIONS
BASE BID

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
W.05

May 12, 2023 - 1:23pm S:\PROJECTS\2021\210237\05 design\civil-survey\Sheets\210237-W SHEETS.dwg

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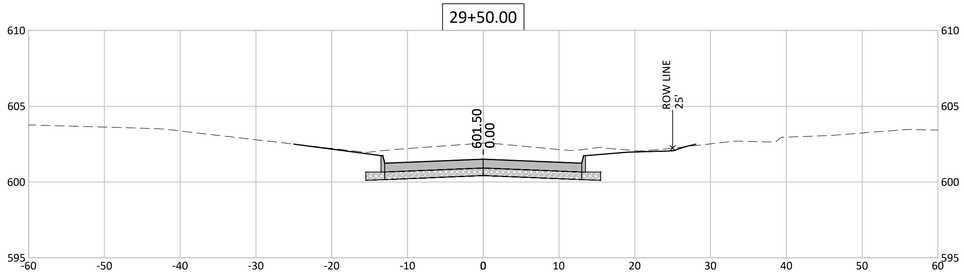

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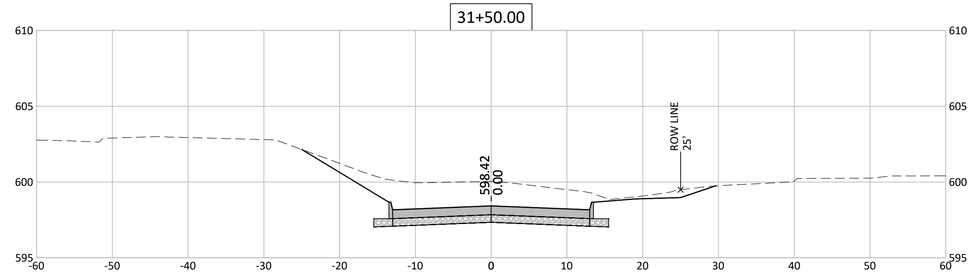

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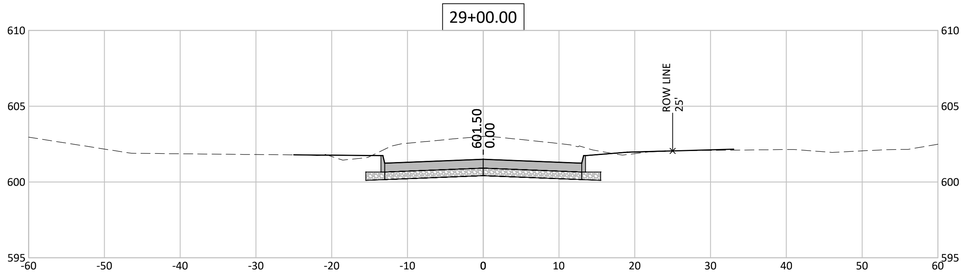

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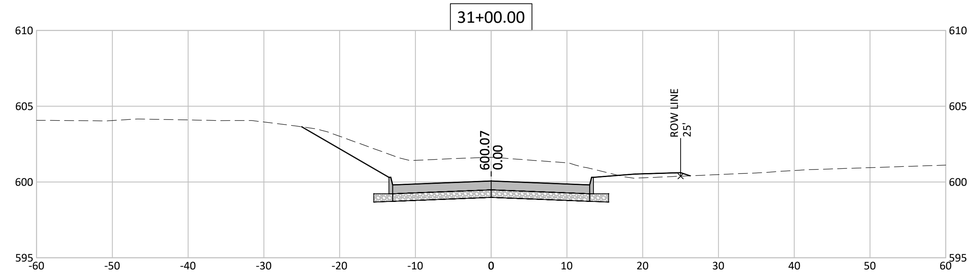

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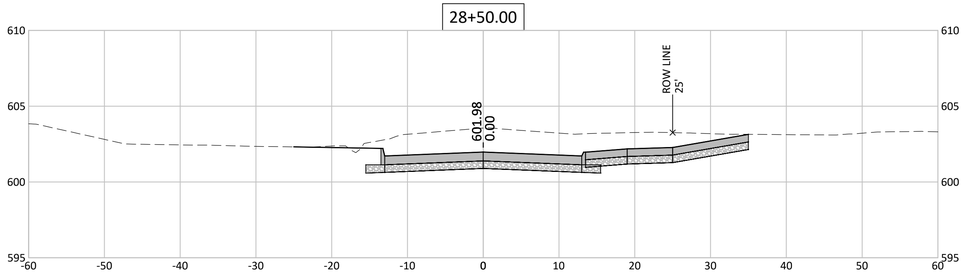

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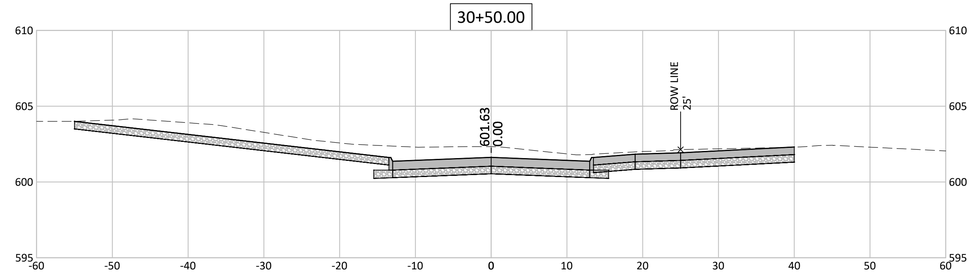

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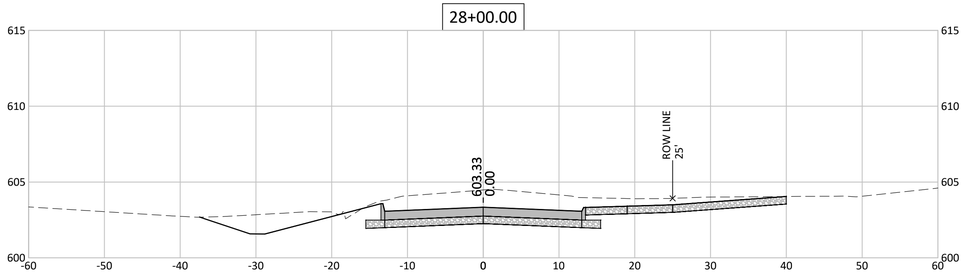

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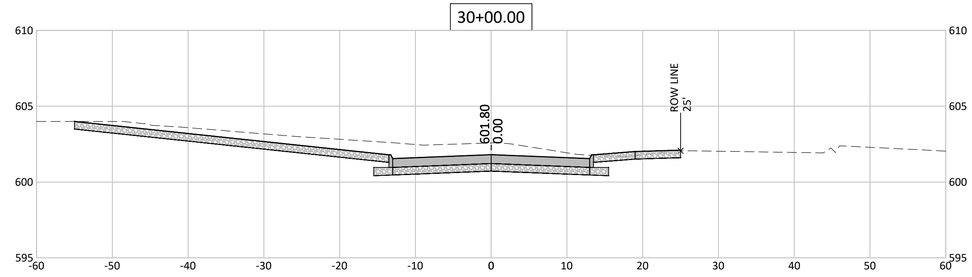

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DRAWING LOG

REV	DESCRIPTION OF CHANGES	DATE
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PROJECT NAME:
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RAPIDS CITY, IL

CLIENT NAME:
VILLAGE OF RAPIDS CITY

SHEET NAME:
CROSS SECTIONS
BASE BID/ALTERNATE BID

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

SHEET NUMBER:
W.06

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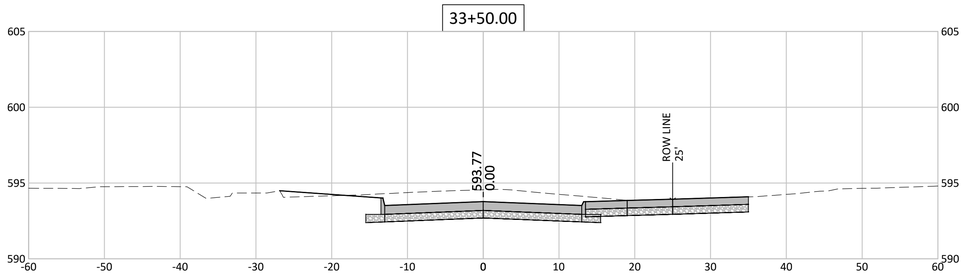

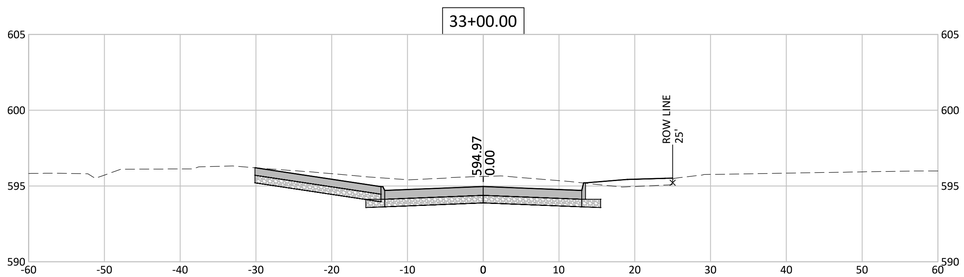

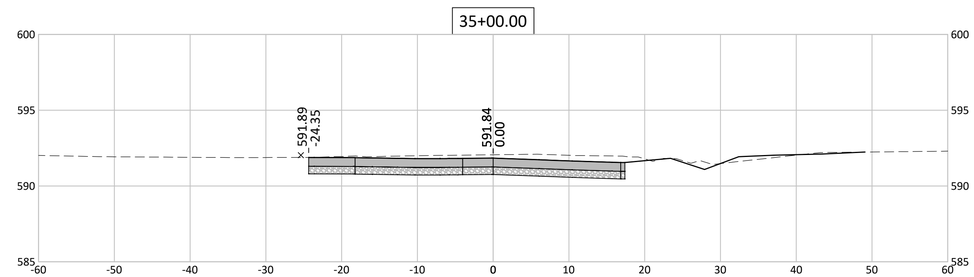

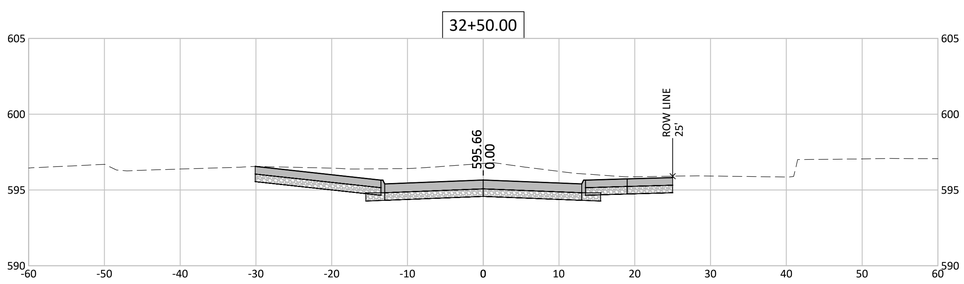

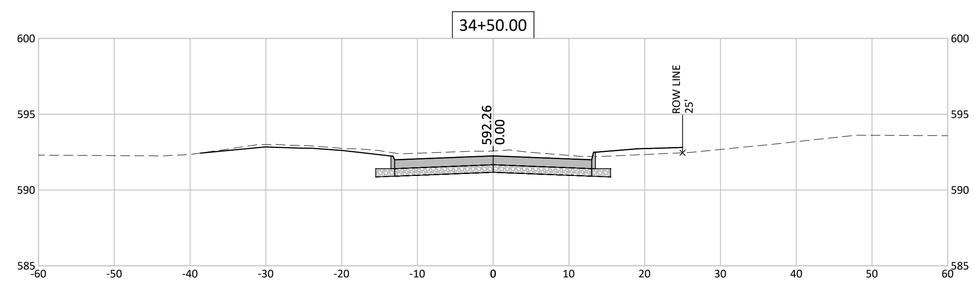

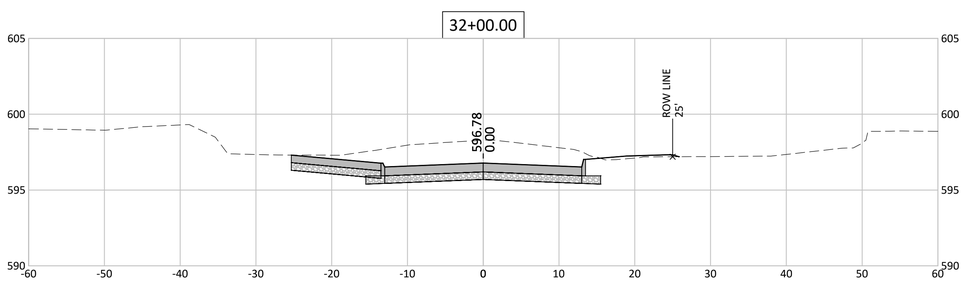

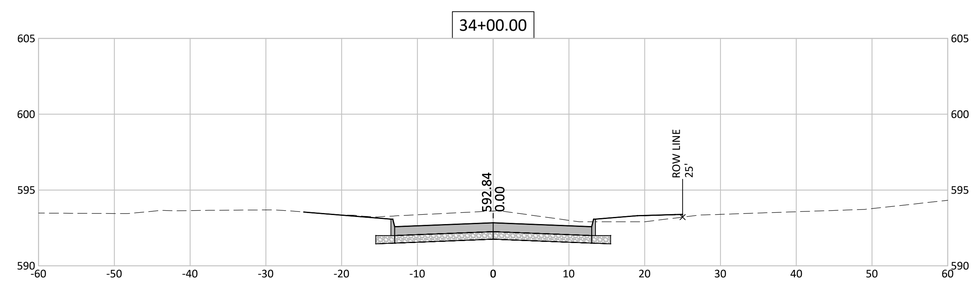

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SHEET NAME:
CROSS SECTIONS

DESIGN PROFESSIONAL:
BOELK

PROJECT NO.:
210237

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W.07

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