

RESERVES OF SADDLE CREEK

10846 S BOOK ROAD, UNINC. NAPERVILLE, IL 60564

JOB NO. W24300.00

JUNE 11, 2025

FINAL ENGINEERING

PREPARED FOR:

OVERSTREET BUILDERS, INC.

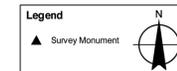
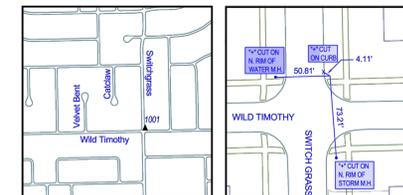
3947 CALIENTE CR,
NAPERVILLE, IL 60564
(630) 226-0460 EXT 206



**City of Naperville
Survey Monument**

City of Naperville
Transportation, Engineering,
and Development
(TED) Business Group
400 S. Eagle Street
Naperville, IL 60540
Phone: 630-305-7001

Station No.: 1001 **Date Established:** 01/17/2001
Order of Accuracy: Horizontal 1st Vertical 4th **Date Last Checked:** 11/15/2005
Station Elevation: 651.59 (Ft) **Naperville Field Checked:** 10/09/2008
Note: Any and all parties utilizing the vertical elevation listed above should always check at least one other monument.
Horizontal Datum: NAD83 (2007) Illinois State Plane Transverse Mercator, East Zone
Vertical Datum: NAVD 1988 Adjustment
North: 1,823,877.19 (Ft) **East:** 1,022,050.66 (Ft) **NOTE:** The coordinates shown are Illinois State Plane grid not ground.
Latitude: 41° 40' 26.88534" (N) **Longitude:** 088° 11' 41.88587" (W)
Description: Benchmark 3D Top Security Monument. Consisting of a 9/16" Dia. Stainless Steel Datum Point On Threaded 9/16" x 4" Long Rod Totalling (16) in Length With Grasseed Top Security Sleeve Enclosed In Sand and 6" PVC Pipe With BMAC 6 Aluminum Access Cover.

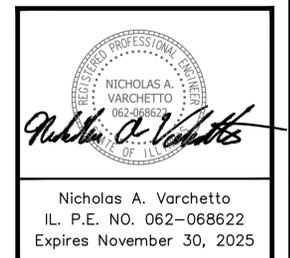


For further data information please consult the National Geodetic Survey: www.ngs.noaa.gov

TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE DRAINAGE OF THE SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF THESE LOT IMPROVEMENTS OR ANY PART THEREOF, OR THAT IF SUCH WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH WATERS INTO PUBLIC AREAS OR DRAINS WHICH THE OWNER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES. SO THAT THE DEVELOPMENT SHALL NOT ADVERSELY INCREASE FLOOD ELEVATIONS OR DECREASE FLOOD CONVEYANCE CAPACITY UPSTREAM OR DOWNSTREAM OF THE PROJECT AREA.

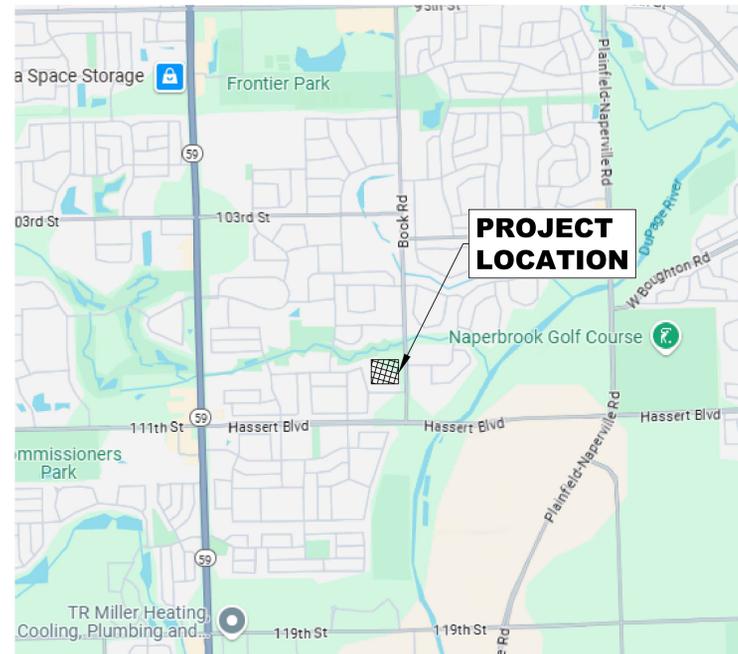
Engineer: _____

Seal: _____



Nicholas A. Varchetto
IL. P.E. NO. 062-06862
Expires November 30, 2025

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COUNTY: WILL
TOWNSHIP: 37N
RANGE: 9E
SECTION: 15

LOCATION MAP

SITE BENCHMARK #1:
SOUTHWEST UPPER FLANGE BOLT ON FIRE HYDRANT
LOCATED ON THE EAST SIDE OF BOOK ROAD
APPROXIMATELY 55' SOUTH OF NORTH PROPERTY
LINE EXTENDED.
ELEV: 644.32 (NAVD 88)

SITE BENCHMARK #2:
NORTHWEST UPPER FLANGE BOLT ON FIRE HYDRANT
LOCATED ON THE EAST SIDE OF BOOK ROAD AT
APPROXIMATELY SOUTH PROPERTY LINE OF 10920
BOOK ROAD EXTENDED.
ELEV: 645.43 (NAVD 88)

It's smart It's free It's the law

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**ENGINEERING
RESOURCE ASSOCIATES**

2416 GALEN DRIVE
CHAMPAIGN, ILLINOIS 61821
PHONE (217) 351-6268
FAX (217) 355-1902

35701 WEST AVENUE, SUITE 150
WARRENVILLE, ILLINOIS 60555
PHONE (630) 393-3060
FAX (630) 393-2152

10 S. RIVERSIDE PLAZA, SUITE 875
CHICAGO, ILLINOIS 60606
PHONE (312) 474-7841
FAX (312) 474-6099

GENERAL NOTES:

1. THE OWNER OR THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION).
3. ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.
4. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
5. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.
6. PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.
7. THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED.
8. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6082) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
10. THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420-6082 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).
11. RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
12. FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.
13. AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF ALL PHASES OF WORK, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING: ENGINEERING RESOURCE ASSOCIATES: (630) 393-3060
14. UTILITY INFORMATION IS BASED UPON FIELD MEASUREMENTS AND BEST AVAILABLE RECORDS. FIELD DATA IS LIMITED TO THAT WHICH IS VISIBLE AND CAN BE MEASURED. THIS DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND UTILITIES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC. "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AS ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION, SHALL BE CONSULTED. APPROPRIATE CONTROL METHODS SHOULD BE APPLIED TO THE SPECIFIC SITUATIONS AND TYPES OF CONSTRUCTION OPERATIONS BEING PERFORMED.
16. THE CONTRACTOR SHALL ESTABLISH THE NECESSARY PERFORMANCE BONDS REQUIRED. PERMITS SHALL BE OBTAINED FROM ALL OUTSIDE GOVERNMENTAL AGENCIES HAVING JURISDICTION PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
17. THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE MOST RECENT SET OF "APPROVED" FINAL ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION.
18. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE SAME.
19. CONTRACTOR SHALL RESTORE OFF-SITE SURFACES TO ORIGINAL CONDITION IF DAMAGED BY CONSTRUCTION.
20. THE CONTRACTOR IS TO PROVIDE THE CITY ENGINEER WITH RECORD DRAWINGS OF ALL UTILITIES SHOWING LOCATIONS OF ALL SEWER PIPE, MAINS, SERVICE STUBS, & STRUCTURES.
21. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM OR FURNISH THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
22. THE ENGINEER WARRANTS THE DESIGN, RECOMMENDATIONS, AND SPECIFICATIONS TO HAVE BEEN PROMULGATED ON CONDITIONS GENERALLY ENCOUNTERED WITHIN THE INDUSTRY. THE ENGINEER ASSUMES NO RESPONSIBILITY WHATSOEVER, WITH RESPECT TO THE DESIGN RECOMMENDATIONS AND SPECIFICATIONS, FOR COMPLEX OR UNUSUAL SOIL CONDITIONS ENCOUNTERED ON THE PROJECT. IT SHALL BE THE OWNERS/BIDDERS RESPONSIBILITY TO ASCERTAIN THE EXACT NATURE OF SUBSURFACE CONDITIONS PRIOR TO THE CONSTRUCTION OF

THE IMPROVEMENT.

23. ALL TRENCHES CAUSED BY THE CONSTRUCTION OF SEWERS, WATERMANS, WATER SERVICE PIPES AND IN EXCAVATIONS AROUND CATCH BASINS, MANHOLES, INLETS AND OTHER APPURTENCES WHICH OCCUR WITHIN TWO FEET OF THE LIMITS OF EXISTING AND PROPOSED PAVEMENT IMPROVEMENTS, SIDEWALKS, AND CURB AND GUTTERS SHALL BE BACKFILLED WITH TRENCH BACKFILL (AS DEFINED IN SECTION 208 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SPECIAL PROVISIONS).
24. AT LEAST 2 WORKING DAYS BEFORE COMMENCEMENT OF ANY WORK ACTIVITIES, THE CONTRACTOR WILL BE REQUIRED TO ATTEND AN ON-SITE PRECONSTRUCTION CONFERENCE. AT THIS CONFERENCE, THE CONTRACTOR WILL BE REQUIRED TO FURNISH AND DISCUSS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: 1) WRITTEN PROGRESS SCHEDULE AND BEGINNING OF WORK 2) NAMES OF PROJECT MANAGER, FIELD SUPERINTENDENT AND THE NAME AND PHONE NUMBER OF A RESPONSIBLE INDIVIDUAL WHO CAN BE REACHED 24 HOURS A DAY.
25. THE CONTRACTOR SHALL NOT BE PERMITTED TO OPERATE EXISTING WATER VALVES OR HYDRANTS WITHOUT PERMISSION FROM THE WATER DEPARTMENT . THE CONTRACTOR SHALL CALL THE WATER DEPARTMENT 24 HOURS PRIOR TO THE NEED TO OPERATE THE VALVES OR HYDRANTS.
26. THE OWNER SHALL PROVIDE A FULL AND COMPLETE CIVIL ENGINEERING RECORD DRAWING PLAN SET IN HARD COPY AND AUTOCAD AT THE COMPLETION OF THE PROJECT. THE RECORD DRAWINGS SHALL INCLUDE ANY CHANGES FROM THE ORIGINAL CIVIL ENGINEERING PLANS. CURRENT ELEVATIONS SHALL BE SHOWN FOR THE FOLLOWING, AT A MINIMUM: 1) ALL RIM AND INVERTS 2) GRADE INFLECTION POINTS WITH PERIODIC GRADES SHOTS IN LEVEL AREAS 3) DETENTION POND GRADES WITH VOLUME CALCULATION. ADD NOTE COMPARING ACTUAL TO REQUIRED POND VOLUME.
27. DUST CONTROL WILL BE IN ACCORDANCE WITH IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN THE STATE OF ILLINOIS", LATEST EDITION, SECTION 107.36.
28. ANY DEWATERING NECESSARY FOR THE INSTALLATION OF THE IMPROVEMENTS AS SHOWN ON THE PLANS SHALL BE THE CONTRACTORS RESPONSIBILITY. THE COST FOR DEWATERING SHALL BE INCLUDED IN THE INSTALLATION OF THE IMPROVEMENTS.
29. ANY POOR SOILS ENCOUNTERED UNDER AREAS TO BE PAVED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
30. THE CONTRACTOR SHALL TAKE CARE TO PROTECT ADJACENT LAND TO THE PROJECT BY NOT DISTURBING THE SOIL BY DRIVING VEHICLES ON IT.
31. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGE TO PLANT MATERIAL OR SOILS OUTSIDE THE CONSTRUCTION LIMITS.
32. ANY REMOVAL ITEMS SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS
33. ALL TREES ARE DESIGNATED TO BE SAVED SHALL BE PROTECTED IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE 201.5 OF THE STANDARD SPECIFICATION AND SPECIAL PROVISIONS.
34. FIRE HYDRANTS SHALL BE REQUIRED AND IN SERVICE PRIOR TO VERTICAL CONSTRUCTION WITH A MINIMUM FIRE FLOW 1000 GPM FOR 2 HOURS. HYDRANTS SHALL BE NO FURTHER THAN 2450' FROM ANY HOME WITH AN AVERAGE SPACING BETWEEN HYDRANTS OF 500'.
35. DURING CONSTRUCTION, ALL ROADS SHALL BE HARD SURFACED (TEMPORARY OR PERMANENT) AND IN PLACE, CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS, PURSUANT TO THE 2015 INTERNATIONAL FIRE CODE, CHAPTER 5, CHAPTER 33, AND APPENDIX D. THE BINDER COAT SHALL BE AN ACCEPTABLE MATERIAL. ACCESS FOR FIRE DEPARTMENT VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

STORM SEWER:

1. NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.
2. THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.
3. STORM SEWER PIPE RCP SHALL CONFORM TO CLASS B MATERIALS FROM SECTION 550 OF THE IDOT STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
4. SEWER PIPE JOINTS SHALL BE SEALED WITH "O-RING" GASKETS. WATERMAIN QUALITY PIPE JOINTS SHALL BE "O-RING" TYPE, ASTM C-443
5. VERTICAL SEPARATION:
 - 5.1. A WATERMAIN SHALL BE SEPARATED FROM A SEWER SO THAT ITS INVERT IS A MINIMUM OF 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATERMANS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN
 - 5.2. BOTH THE WATERMAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRE-STRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION WHEN:
 - 5.2.1. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED ABOVE, OR;
 - 5.2.2. THE WATERMAIN PASSES UNDER A SEWER OR DRAIN.
 - 5.3. A VERTICAL SEPARATION OF 18" BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER A SEWER, SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLLING AND BREAKING THE WATERMAIN, AS SHOWN ON THE PLANS OR

APPROVED BY THE ENGINEER.

- 5.4. CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATERMAIN TO THE SEWER OR DRAIN LINE IS AT LEAST 10 FEET.
6. MANHOLES AND CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE - ASTM C-478 AND ASTM C-443 CONFORMING TO THE FOLLOWING MINIMUM SIZE CRITERIA UNLESS SPECIFIED OTHERWISE: A.) FOR SEWER EIGHTEEN (18) INCH DIAMETER OR LESS, MANHOLE SHALL HAVE A FORTY-EIGHT (48) INCH INSIDE DIAMETER. B.) FOR SEWER TWENTY-ONE (21) INCH TO THIRTY-SIX (36) INCH IN DIAMETER, MANHOLE SHALL HAVE A SIXTY (60) INCH INSIDE DIAMETER. C.) FOR SEWER GREATER THAN THIRTY-SIX (36) INCH DIAMETER, MANHOLE SHALL HAVE AN OFFSET RISER PIPE OF FORTY-EIGHT (48) INCH INSIDE DIAMETER.
7. INLETS SHALL BE TWENTY-FOUR (24) INCH DIAMETER PRECAST REINFORCED CONCRETE CONFORMING TO ASTM C-478.
8. FOUR INCHES OF CA-7 CRUSHED GRAVEL OR CRUSHED STONE AGGREGATE SHALL BE USED AS BEDDING UNDER THE PIPE. THE BEDDING STONE SHALL BE GRADED ALONG THE ENTIRE LENGTH OF PIPE TO PROVIDE FULL BEARING. THE BEDDING STONE SHALL EXTEND TO THE SPRINGLINE OF THE PIPE.
9. ANY PIPES OR MANHOLES CONTAINING SEDIMENT SHALL BE CLEANED OUT PRIOR TO FINAL ACCEPTANCE.
10. STORM SEWER MANHOLE JOINTS SHALL BE SEALED WITH "O-RING" GASKETS OR MASTIC MATERIAL.

PAVEMENT, SIDEWALK:

1. THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR EXISTING, FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY ENGINEER.
2. ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER.
3. THE CONTRACTOR SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.
5. WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE, THE ADJACENT SIDEWALK, DRIVEWAYS, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DONE OVER UNTIL IT IS CORRECT.
6. PAVEMENT THICKNESS SHALL COMPLY WITH NAPERVILLE REQUIREMENTS.
7. HANDICAPPED RAMPS AND DEPRESSED CURBS SHALL BE PROVIDED AT LOCATIONS SHOWN ON PLANS.
8. EXPANSION JOINTS SHALL BE PLACED, AS A MINIMUM AT ALL CONSTRUCTION JOINTS IN THE CURB. EXPANSION JOINTS SHALL BE DOWELED AND SPACED NO MORE THAN SIXTY (60) FEE ON CENTER.
9. PRIOR TO PLACING ANY PAVEMENT MATERIAL, THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY PREPARING AND COMPACTING THE SUBGRADE. THE PAVEMENT BASE COURSE SHALL BE PROOF-ROLLED WITH A FULLY LOADED DUMP TRUCK. THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE PROOF-ROLLING. ADDITIONAL PROOF-ROLLS MAY BE NECESSARY TO VERIFY THAT ANY UNSTABLE AREAS HAVE BEEN REPAIRED. NO PAVEMENT MATERIAL IS TO BE PAVED ON A WET OR SOFT SUBGRADE.
10. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT TO A NEAT EDGE ALONG LIMITS OF PROPOSED REMOVAL BEFORE REMOVAL OPERATIONS BEGIN.

SOIL EROSION CONTROL PLAN:

1. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM SEWER WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
2. DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
3. DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.
4. THE PROJECT AREA SHALL BE GRADED SO A MINIMAL AMOUNT OF STORMWATER RUNOFF AND LIKEWISE SOIL SEDIMENT WILL DISCHARGE UNRESTRICTED FROM THE SITE.
5. IN ACCORDANCE WITH THE NPDES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL PROTECTION DURING CONSTRUCTION AS WELL AS PROVIDING PROTECTION TO ADJOINING STREETS FROM MUD AND POLLUTED RUNOFF AS WELL AS KEEPING EXISTING PAVEMENT CLEAN OF MUD AND DEBRIS. PAVEMENT SWEEPING OF CITY ROADS SHALL BE PERFORMED AS NECESSARY OR AT THE DIRECTION OF THE CITY ENGINEER. ALL EROSION CONTROL

MEASURES SHALL BE INSPECTED AND CLEANED OR OTHERWISE MAINTAINED ON A WEEKLY BASIS, AND WITHIN 24 HOURS AFTER ANY SIGNIFICANT RAINFALL (0.5 INCHES OR GREATER) TO INSURE THAT ANY DAMAGE THAT MAY HAVE OCCURRED IS REPAIRED. ALL EROSION CONTROL INSTALLATION SHALL BE APPROVED BY THE CITY OF NAPERVILLE ENGINEERING DIVISION PERSONNEL BEFORE CONSTRUCTION IS ALLOWED TO BEGIN.

6. INLET PROTECTORS SHALL BE USED IN ALL STORM GRATES DURING CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE RESTORATION IS SUFFICIENTLY ESTABLISHED. THE INLET PROTECTORS SHALL BE MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL KEEP A MAINTENANCE LOG. THE CITY ENGINEER CAN DETERMINE IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL.
7. SILT FENCING SHALL REMAIN IN PLACE THROUGH THE CONSTRUCTION OF HOUSE/BUILDINGS TO SERVE AS EROSION CONTROL FOR THAT CONSTRUCTION.
8. TO PREVENT SOIL FROM LEAVING THE SITE ON CONSTRUCTION VEHICLE WHEELS, WORK ENTRANCES SHALL BE CONSTRUCTED OF GRAVEL AND SHALL EXTEND AT LEAST 50 FEET INTO THE JOB SITE. THE EXISTING PAVEMENT SURFACES SHALL BE INSPECTED DAILY FOR SOIL DEBRIS AND SHALL BE CLEANED WHEN NECESSARY.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DISPOSE OF ANY EXCESS EXCAVATED MATERIAL.
10. DISPOSAL OF DEBRIS EXCAVATION AND PAVEMENT REMOVAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND CONSIDERED AS AN INCIDENTAL EXPENSE.
11. ANY TOPSOIL THAT WILL BE STOCKPILED ON SITE SHALL BE MANAGED IN ACCORDANCE WITH THE CURRENT NPDES REGULATIONS. IF THE STOCKPILE WILL REMAIN ON SITE FOR AN EXTENDED PERIOD, IT SHALL BE STABILIZED WITH GRASS AND/OR OTHER VEGETATION AND DOUBLE ROW OF SILT FENCING SHALL BE PLACED AROUND THE STOCKPILE.
12. ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
13. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.
14. THE ENGINEER SHALL BE NOTIFIED OF MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS, WHICH WILL BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
15. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.
16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES
17. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE"
18. IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS OR BASINS.

SITE GRADING:

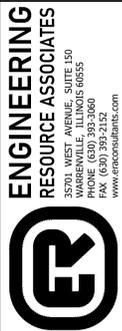
1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS MAY REQUIRE EARTH EXCAVATION AND COMPACTED EARTH FILL MATERIAL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS.
2. PLACEMENT OF THE EXCAVATED MATERIAL SHALL BE IN AREAS DESIGNATED BY THE OWNER FOR FUTURE USE, WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL.
3. COMPACTION OF THE EXCAVATED MATERIAL PLACED IN AREAS NOT REQUIRING STRUCTURAL FILL SHALL BE MODERATE.
4. EXCESS MATERIALS, IF NOT UTILIZED AS FILL OR STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTOR.
5. EXCAVATION OF EARTH AND OTHER MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL: THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.3' +/- OF THE PLAN SUBGRADE ELEVATIONS. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIAL SHALL BALANCE AS PART OF THE FINE GRADING OPERATION.
6. PLACEMENT AND COMPACTION OF MATERIALS SHALL CONFORM TO I.D.O.T SPECIFICATIONS.
7. THE CONTRACTOR SHALL MAINTAIN PROPER SITE DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
8. PAYMENT FOR THE REMOVAL OF UNSUITABLE MATERIAL (EXCLUDING TOPSOIL EXCAVATION) SHALL BE BASED ON THE QUANTITIES AS FIELD MEASURED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE AS PART OF HIS BID A UNIT PRICE PER CUBIC YARD FOR THE REMOVAL OF UNSUITABLE MATERIALS. SAID UNIT PRICE SHALL INCLUDE THE COMPLETE REMOVAL OF THE MATERIAL, REPLACEMENT WITH SUITABLE MATERIAL OBTAINED BY THE CONTRACTOR FROM A BORROW SOURCE, AND COMPACTION TO THE REQUIRED SPECIFICATIONS OF THE ENGINEER.
9. ALL DISTURBED AREAS SHALL BE RESTORED W/6" TOPSOIL AND SEED AND BLANKET UNLESS OTHERWISE INDICATED.
10. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO MAINTAIN ALL THE SEDIMENTATION CONTROL MEASURES. INSPECTIONS SHALL BE CONDUCTED AFTER A RAIN EVENT, AND IF MAINTENANCE OF THE STRUCTURES IS NECESSARY, INCLUDING REPAIR OF DAMAGE AND REMOVAL OF DEPOSITS OR SEDIMENT FROM VEGETATIVE FILTERS, IT SHALL BE DONE BY THE DEVELOPER.

DATE OF CONSTRUCTION: IT IS ANTICIPATED THAT CONSTRUCTION WILL BEGIN IN SPRING 2021, AND THAT EARTHWORK AND UTILITY OPERATIONS WILL BE COMPLETED BY FALL 2021.

- INSTALL TEMPORARY EROSION CONTROL MEASURES.
- MASS GRADE SITE.
- CONSTRUCT BUILDING FOUNDATION
- CONSTRUCT ROADWAY AND UTILITIES.
- PERFORM RESTORATION, STABILIZATION, AND REMOVAL OF TEMPORARY EROSION CONTROL MEASURES.

SANITARY SEWER

1. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED. ALL STRUCTURE FRAMES SHALL BE FLUSH WITH FINAL GRADE.
2. TREES SHALL BE INSTALLED A MINIMUM OF FIVE (5) FEET HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES. TREES SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVE VAULTS, VALVE BOXES AND FIRE HYDRANTS. NO TREES, SHRUBS OR OBSTACLES WILL BE ALLOWED 10' IN FRONT OF, 5' ON THE SIDES, AND 7' TO THE REAR OF THE ELECTRICAL TRANSFORMER.
3. A SET OF AS-BUILT RECORD DRAWING SHALL BE GIVEN TO THE CITY OF NAPERVILLE UPON COMPLETION OF IMPROVEMENTS SHOWING THE ELEVATION AND LOCATION (TIED TO TWO POINTS) OF ALL NEW AND EXISTING STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINSTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), AND ABANDONED WATER OR SANITARY SERVICE LINES. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS.
4. ALL SANITARY SEWER PIPING SHALL BE PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-2241 WITH JOINTS CONFORMING TO ASTM D-3139. ALL SANITARY SEWER FITTINGS SHALL BE PVC MEETING THE FOLLOWING REQUIREMENTS: 4" TO 12" SHALL BE INJECTION ALL SANITARY SEWER PIPING SHALL BE PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-2241 WITH JOINTS CONFORMING TO ASTM D-3139. ALL SANITARY SEWER FITTINGS SHALL BE PVC MEETING THE FOLLOWING REQUIREMENTS: 4" TO 12" SHALL BE INJECTION MOLDED FITTINGS MEETING ASTM D-2241. GREATER THAN 12" SHALL BE FABRICATED FITTINGS MEETING ASTM D-2241 OR C905. MINIMUM PRESSURE RATING SHALL BE 150 PSI.
5. SANITARY SEWER AND WATER SHALL BE CONSTRUCTED, TESTED, AND PLACED INTO SERVICE IN ACCORDANCE WITH CITY OF NAPERVILLE STANDARD SPECIFICATION AND SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.
6. ALL SANITARY MANHOLES SHALL BE TESTED FOR LEAKAGE BY VACUUM TESTING. THE MANHOLE FRAME AND ADJUSTING RINGS SHALL BE IN PLACE WHEN TESTING. ANY LEAKS SHALL BE REPAIRED FROM EXTERIOR OF MANHOLE - PATCHING INSIDE OF MANHOLE SHALL NOT BE ACCEPTABLE. A VACUUM OF 10" (254 MM) HG SHALL BE PLACED ON THE MANHOLE AND THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9" (229 MM) HG. THE VACUUM SHALL NOT DROP BELOW 9" (229 MM) HG FOR THE FOLLOWING TIME PERIODS FOR EACH SIZE OF MANHOLE:
 - A) 48-INCH DIAMETER - 60 SECONDS
 - B) 60-INCH DIAMETER - 75 SECONDS
 - C) 72-INCH DIAMETER - 90 SECONDS
 - D) 84-INCH DIAMETER - 105 SECONDS
 ANY MANHOLES THAT FAIL THE TEST SHALL BE SEALED AND RE-TESTED UNTIL ACCEPTABLE.
7. THE CONTRACTOR SHALL PROVIDE INTERNAL TELEVISED INSPECTION OF ALL INSTALLED SANITARY SEWER, LATERALS, MANHOLES AND CONNECTIONS TO THE PUBLIC SYSTEM. FOLLOWING COMPLETION OF TELEVISION WORK, THE CONTRACTOR SHALL SUBMIT VIDEO RECORDINGS ON DVD OR FLASH DRIVE ALONG WITH A COMPREHENSIVE TELEVISION REPORT WHICH WILL INDICATE THE LOCATION, FOOTAGES AND NATURE OF ANY DEFECTS. ALL DEFECTS SHALL BE REPAIRED TO THE SATISFACTION OF THE WATER/WASTEWATER UTILITY AND RE-TELEVISED.
8. CONTRACTOR WORK HOURS ARE ONLY ALLOWED FROM 7:00 A.M. TO 5:00 P.M., MONDAY THROUGH SATURDAY. NO WORK SHALL BE PERMITTED ON SUNDAYS.
9. SANITARY PIPES WITH LESS THAN 4 FEET OR MORE THAN 25 FEET OF COVER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPING (CLASS 50, MINIMUM) AND ENCASED IN POLYWRAP.
10. ALL EXCAVATIONS MORE THAN 20 FEET DEEP MUST BE PROTECTED BY A SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
11. CONTRACTOR SHALL MAINTAIN 2' MINIMUM CLEARANCE BETWEEN EXISTING UTILITIES AND NEW FOUNDATIONS AND UNDERGROUND FACILITIES. IN AREAS WHERE FOUNDATIONS AND UNDERGROUND FACILITIES ARE PROPOSED ADJACENT TO EXISTING UTILITIES, THE CONTRACTOR SHALL POT HOLE BY VACUUM EXCAVATION OR HAND EXCAVATION TO LOCATE THE EXISTING UTILITY TO VERIFY MINIMUM CLEARANCE REQUIREMENT.
12. FENCES SHALL BE INSTALLED A MINIMUM OF 5 FEET FROM ANY WATER OR SANITARY MAINS WHEN RUNNING PARALLEL WITH THEM. WHERE FENCES ARE INSTALLED CROSSING WATER OR SANITARY MAINS, THE POSTS SHALL BE LOCATED TO HAVE THE MAIN BETWEEN THEM.



OVERSTREET BUILDERS, INC. 3947 CALLENTE CR, NAPERVILLE, IL 60564 (630) 226-0460 EXT 206

RESERVES OF SADDLE CREEK 10826-10946 BOOK ROAD, NAPERVILLE, IL 60546

06-11-2025	ADDENDUM #1
07-11-2025	ADDENDUM #2
08-07-2025	ADDENDUM #3
09-02-2025	ADDENDUM #4
09-15-2025	ADDENDUM #5

DATE	: 04-16-2025
PROJECT #	: W24300.00
DESIGNED BY	: MD
DRAWN BY	: MD
CHECKED BY	: NAV

GENERAL NOTES

C-2.0 SHEET

403.2.8 INSTALLING PIPE THROUGH CASINGS

This work shall be in conformance with Section 20-2.19 of the Standard Specifications for Water and Sewer Main Construction in Illinois, except as modified herein. Encasements for pipes under highways or railroads shall conform to the requirements of the City of Naperville, or the owner of the highway or railroad. Manufactured non-metallic or non-corrosive casing spacers, adjustable runners, or cradles shall be used to support the pipe in the casing and shall be installed per manufacturer's recommendations. A minimum of two supports shall be used per joint of pipe for lengths up to 12-1/2 feet, and a minimum of three supports shall be used per joint for lengths greater than 12-1/2 feet. The annular space shall be filled with pea gravel, low-strength grout, or cellular foam concrete and provisions shall be made so that no voids are left. The Contractor shall make arrangements to have a City of Naperville representative witness the annular spacing filling operations.

403.2.9 CORROSION PROTECTION - POLYETHYLENE ENCASEMENT

Polyethylene encasement is required for all underground installations of gray, ductile and cast iron pipe and other related appurtenances or water main. Polyethylene encasement shall be required unless a soils report submitted to the City by the Ductile Iron Pipe Research Association indicates that the soils in the area are not corrosive to iron pipe. Should corrosive soils be encountered during the installation of the pipe, then the pipe shall be encased in polyethylene wrap.

Installation shall be in accordance with ANSI/AWWA C105/A21.5-99 (or latest edition). The polyethylene encasement shall prevent contact between the pipe and the surrounding backfill and bedding material but is not intended to be a completely air and water tight enclosure.

Overlaps shall be secured by the use of approved adhesive tape, plastic string, or other material capable of holding the polyethylene encasement in place until backfilling operations are completed.

Three different methods for the installation of polyethylene encasement on pipe are acceptable. Methods A and B are for use with polyethylene tubes and method C for use with polyethylene sheets.

a) Method A

Cut the polyethylene tube to a length approximately two feet longer than that of the pipe section. Slip the tube around the pipe, centering it to provide a one foot overlap on each adjacent pipe section, and bunching it accordion fashion length-wise until it clears the pipe ends.

Lower the pipe into the trench and make up the pipe joint with the preceding section of pipe. A shallow bell hole must be made at joints to facilitate installation to the polyethylene tube.

After assembling the pipe joint, make the overlap of the polyethylene tube. Pull the bunched polyethylene from the preceding length of pipe, slip it over the end of the new length of pipe and secure in place. Then slip the end of the polyethylene from the new pipe section over the end of the first wrap until it overlaps the joint at the end of the preceding length of pipe.

Secure the overlap in place. Take up the slack width to make a snug, but not tight, fit along the barrel of the pipe, securing the fold at quarter points.

Repair any rips, punctures, or other damage to the polyethylene with adhesive tape or with a short length of polyethylene tube cut open, wrapped around the pipe and secured in place. Proceed with installation of the next section of pipe in the same manner.

b) Method B

Cut the polyethylene tube to a length approximately one foot shorter than that of the pipe section. Slip the tube around the pipe, centering it to provide six inches of bare pipe at each end. Make the polyethylene snug, but not tight; secure ends as described in Method A.

Before making up a joint, slip a three foot length of polyethylene tube over the end of the preceding pipe section, bunching it accordion fashion lengthwise. After completing the joint, pull the three foot length of polyethylene over the joint, overlapping the polyethylene previously installed on each adjacent section of pipe by at least one foot. Make the polyethylene snug and secure each end as described in Method A.

Repair any rips, punctures, or other damage to the polyethylene. Proceed with installation of the next section of pipe in the same manner.

c) Method C

Cut the polyethylene sheet to a length approximately two feet longer than that of the pipe section. Center the cut length to provide a one foot overlap on each adjacent pipe section, bunching it until it clears the pipe ends. Wrap the polyethylene around the pipe so that it circumferentially overlaps the top quadrant of the pipe. Secure the cut edge of polyethylene sheet at intervals of approximately three feet.

Lower the wrapped pipe into the trench and create the pipe joint with the preceding section of pipe. A shallow bell hole must be made at joints to facilitate installation of the polyethylene. After completing the joint, make the overlap as described above.

Repair any rips, punctures or other damage to the polyethylene. Proceed with installation of the next section in the same manner.

Cover bends, reducers, offsets, and other pipe-shaped appurtenances with polyethylene in the same manner as the pipe. When valves, tees, crosses, and other odd-shaped pieces cannot be wrapped practically in a tube, wrap with a flat sheet or split length of polyethylene tube by passing the sheet under the appurtenance and bringing it up around the body. Make seams by bringing the edges together, folding over twice, and taping down. Handle width and overlaps at joints as described above. Tape polyethylene securely in place at valve stem and other penetrations.

403.3 VALVES

The minimum requirements for all valves shall, in design, material and workmanship, conform to AWWA C509-01 or AWWA C515-01 (or latest editions).

All valves shall be inspected upon delivery in the field to insure proper working order before installation. They shall be set and jointed to the pipe in the manner as set forth in the AWWA Standards for the type of connection ends furnished.

The valves shall be suitable for ordinary water works service and intended to be installed in a normal position on buried pipe lines or water distribution systems.

All valves shall be provided with a standard valve chamber so arranged that no shock will be transmitted to the valve and the box or vault opening shall be centered over the operation nut, and the cast iron cover shall be set flush with the road bed or finished surface.

403.4 TAPPING AND LINE STOP SLEEVES

Pressure tap connections shall be made in accordance with Standard Details and in accordance with Section 46 of the Standard Specifications for Water and Sewer Main Construction in Illinois.

Tapping sleeves of stainless steel shall not be used for "size on size" installations nor on water mains larger than 12 inches in size.

The outside surface of the existing main and the inner face of the tapping sleeve shall be disinfected with a 1 % chlorine solution.

403.5 INSERT VALVES

Insert valves shall be furnished with flanged inlet and connections having a machined projection on the flanges to mate with a machined recess on the outlet flanges of the tapping sleeves and crosses.

Insert valves shall be furnished for and installed in a horizontal conduit with the valve stem plumb over the center line of the pipe.

403.6 CURB BOXES

Curb boxes shall be capable of extensions and installed to finished grade, and shall conform to the depth of bury of the service line as provided in the Naperville Standard Detail 490.20. "Pigtails" on customer side of curb stop are not allowed.

403.7 VALVE BOXES

Adjustable cast iron valve boxes shall be set to position during backfilling operations so they will be in a vertical alignment to the valve operating stem. The lower casting of the unit shall be installed first in such a manner as to be cushioned and to not rest directly upon the body of the R/W valve or upon the water main. The upper casting of the unit shall then be placed in proper alignment into such an elevation that its top will be a final grade. Backfilling around both units shall be placed and compacted to the satisfaction of the Engineer. Valve boxes must be free of debris, centered over operating nut and easily key-able.

403.8 VALVE VAULTS

Seal tight valve vaults shall be pre-cast with a minimum diameter of 48 inches. For valves 12 inches and smaller, a concentric cone centered on the valve shall be provided. On butterfly valves and pressure connections, vaults shall be a minimum of 60 inches with eccentric cones installed so that the opening of the cone is placed as close to the centerline of the operation as possible.

A butyl mastic material (CONSEAL CS-102B or equal approved by the City Engineer) shall be used to provide a watertight seal between vault barrel sections, cone to barrel section, and the cone section to the adjusting ring or the frame.

Rubber boots/seals must be used where pipes enter manholes to provide a watertight connection where pipe enters. Elastomeric boots shall conform to ASTM C923-02 and ASTM A167-99(2004), or latest edition with stainless steel bands as manufactured by KOR-N-SEAL by NPC, PSX by Press-Seal Gasket Corporation or approved equal.

403.8.1 FRAME ADJUSTMENTS

Adjustments may be necessary to ensure that frames match the elevation of the surrounding pavement or ground surface. Preformed adjusting rings of the proper dimensions needed to mate the frame to the precast structure shall be used. No more than 12 inches of vertical adjustment may be made using the minimum practical number of individual rings.

All rings shall be High Density Polyethylene Plastic (HDPE), Recycled Rubber, High Density Expanding Polystyrene, Expanded Polypropylene (EPP), or other material as approved by the City Engineer. Precast concrete rings, bricks, rocks, shims, or concrete blocks will not be allowed. Tapered adjusting rings shall be required when the frame will need to match the slope of the roadway.

A resilient, flexible, non-hardening, preformed bituminous mastic material, Conseal 102 B or approved equal, shall be used between the cone or top barrel section of the structure and the adjusting rings. A thick bead of non-hardening elastomeric joint sealant conforming to ASTM C-920, Type S, Grade NS, shall be applied between all individual rings, and between the adjusting rings and the frame. The sealant or mastic material shall be applied in such a manner that no surface water or ground water inflow can enter the structure. No dressing or tuckpointing mortar is allowed on the rings.

Frame adjustments shall be completed in accordance with Sections 602 and 603 of Standard Specifications for Road and Bridge Construction, prepared by the Illinois Department of Transportation, latest edition, except as noted herein.

403.9 FIRE HYDRANTS

These specifications are to be used in conjunction with the AWWA Standard C502-05 (or latest edition) for fire hydrants for ordinary water works service. Fire hydrants shall be installed at the locations shown on the approved engineering plans.

Hydrants shall be plumb and shall be set so that the center of the hydrant port is a minimum of 18 inches to a maximum of 24 inches above the surrounding finished grade ensuring the breakaway flange at proper ground height. All hydrants shall be inspected in the field upon delivery to the job to ensure proper operation before installation. A minimum of 1/4 cubic yard of washed coarse stone shall be placed at and around the base of the hydrant to ensure proper drainage of the hydrant after use. The blocking of the hydrant shall consist of a wedge of Portland cement concrete of not less than 1/4 cubic yard extending from the hydrant to undisturbed soil and shall be so placed to form a barrier adjacent to the hydrant base top to counteract the pressure of water exerted thereon. Care shall be taken to insure that weep holes are not covered by concrete. The hydrant shall be set on a concrete block to ensure a firm bearing for the hydrant base. The hydrant valve and tee shall be interconnected by stainless steel rods or approved retainer glands. Locking or restrained fittings may be substituted only after prior approval from the City Engineer. The resetting of existing hydrants and moving and reconnection of existing hydrants shall be handled in a manner similar to the new installation. Auxiliary valve shall be installed a minimum of 18 inches from the face of the hydrant. The contractor shall rotate and/or adjust the hydrants to the satisfaction of the department of Public Utilities. The hydrant settings shall follow the Naperville Standard Detail 490.06.

Fire hydrant should be bagged "NOT IN SERVICE" until all testing and disinfection has been completed and the new water main section is service.

403.10 THRUST BLOCKING AND TIE RODS

a) Blocking to prevent movement of lines under pressure at bends, tees, caps, valves (including inside vaults) and hydrants shall be Portland cement concrete, a minimum of 12 inches thick, placed between solid ground and the fittings (see Naperville Standard Detail 490.11) and shall be anchored in such a manner that pipe and fitting joints will be accessible for repairs. The Portland cement concrete shall meet or exceed a compressive strength of 3500 psi after 28 days.

b) All bends of 11-1/4 degrees or greater, and all tees, crosses and plugs shall be thrust protected to prevent movement of the lines under pressure as shown on the plans.

c) Where unstable soil and/or backfill conditions exist, it may be necessary to install thrust blocking at deflected sections as well as at fittings. If required by the City Engineer, deflection blocking shall be installed at a point approximately 1/5th of the pipe length each side of the coupling. Couplings/sleeves shall be restrained with approved retainer glands.

d) Tie rods shall be 5/8 inch diameter (minimum) stainless steel, grade 304. Eyebolts shall be high strength, low alloy steel.

e) Where conditions prevent the use of concrete thrust blocks, tied joints or restrained joints of a type approved by the City Engineer shall be used.

403.11 RETAINER GLANDS

The contractor may elect to use mechanical joint wedge action retainer glands in lieu of tie-rods. Installation shall be per manufacturers' recommended procedures, including length and/or number of joints to be restrained. Tied or restrained joints shall extend a minimum of two full pipe lengths back from the fitting.

Note: Thrust blocking shall be required behind fire hydrant assemblies in addition to the use of retainer glands and/or tie rods. The use of set screw type retainer glands shall not be permitted for use within the City of Naperville.

Use of approved retainer glands does not eliminate the need for thrust blocking at fittings and valves unless approved by the Department of Public Utilities after review of the appropriate supporting calculations.

404 INSPECTION AND TESTING

404.1 GENERAL INFORMATION

When extending an existing line, the contractor must chlorinate and pressure test both new and valved sections of existing lines in accordance with City standards.

For fire lines to buildings, the permanent valve must be in place prior to disinfection and sampling.

404.2 TESTING FOR TAPPING SLEEVES AND INSERT VALVES

Before a tapping sleeve is installed, the exterior of the main to be tapped, as well as the interior surface of the sleeve, shall be thoroughly cleaned and swabbed with a 1 percent hypochlorite solution.

After the surface disinfection, the tapping saddle or sleeve shall be mounted to the main and tapping valve to form a pressure-tight connection. The installation shall be pressure tested at operating pressure plus 50 percent, to insure the integrity of the installation. This shall be a hydrostatic test, introduced through a port on the tapping machine, or through a tapped mechanical joint plug on the outlet side of the tapping valve. The tapping machine and the tapping valve and sleeve assembly shall be externally supported so that no additional weight is placed upon the main(s).

Prior to installation, the insert valve shall be operated in the position that it will assume in service and for the full length of gate travel in both directions to demonstrate the free and perfect functioning of all parts in the intended manner. Any defects of workmanship shall be corrected and tested repeated until satisfactory performance is demonstrated.

404.3 PRESSURE TESTING

All newly laid water mains shall be subjected to a hydrostatic pressure test. Testing shall be in accordance with provision AWWA C-600-99 (or latest edition). Each valved section of pipe shall be slowly filled with water and flushed. The specified test pressure shall be applied by means of a pump connected to the pipe in a satisfactory manner. Water used shall be metered. The pump to pipe connection and all necessary apparatus including gauges and meters shall be furnished by the contractor. Before applying the specified test pressure, all air shall be expelled from the pipe. To accomplish this, taps shall be made, if necessary, at points of highest elevation and afterwards turned off and capped. All joints showing visible leaks shall be repaired or replaced until they are free from leaks. Any cracked or defective pipes, fittings, valves, or hydrants discovered in consequence of this pressure test shall be removed and replaced by the contractor with sound material and the test shall be repeated until satisfactory to the City Engineer. In no instance shall "Bell Joint Clamps" be permitted to repair leaks at push-on joints.

a) The newly laid water mains or any valved sections of it shall be subjected to a hydrostatic pressure test of no less than 150 pounds per square inch (psi) or 50% more than the operating pressure, whichever is greater. The test pressure shall not vary by more than ± 5 psi.

b) The duration of each pressure test shall be for a period of not less than 4 hours.

c) The pressure test gauge shall be glycerin or oil filled, with a range of not more than 200 psi and increments not greater than 5 psi.

404.3.1 PERMISSIBLE LEAKAGE

a) Suitable means approved by the City Engineer shall be provided by the contractor for determining the quantity of water lost by leakage. The leakage test shall be conducted after satisfactory completion of the pressure test before being accepted.

b) Allowable leakage shall not be greater than that indicated in Table 400-3.

c) Leakage is defined as the quantity of water to be supplied in the newly laid pipe or any valved section under test which is necessary to maintain the specified leakage test pressure after the pipe has been filled with water and the air expelled.

d) Flanged pipes shall be watertight.

TABLE 400-3
ALLOWABLE LEAKAGE FOR HYDROSTATIC
PRESSURE TEST (150 PSI)

Nominal Pipe Diameter	Allowable Leakage (gallons/hour/1000 LF)
2"	0.19
3"	0.28
4"	0.37
6"	0.55
8"	0.74
10"	0.92
12"	1.10
14"	1.29
16"	1.47
18"	1.66
20"	1.84
24"	2.21

404.4 DISINFECTION (CHLORINATION)

404.4.1 FLUSHING

a) Sections of pipe to be disinfected shall first be flushed to remove any solids or contaminated material that may have become lodged in the pipe. If no hydrant is installed at the end of the main, then a tap should be provided large enough to develop a velocity of at least 2.5 feet per second in the main. One 2-1/2 inch diameter hydrant opening will, under normal pressure, provide this velocity in pipe sizes up to and including 12 inches. See Table 400-4 for additional sizes.

b) All taps required by the contractor for chlorination or flushing purposes or for temporary or permanent release of air, shall be provided by him as part of the construction of water mains. When completed, the copper tubing shall be removed and the corporation stop placed at the "off" position. After testing, all corporation stops in valve vaults shall be brass-capped to protect threads.

TABLE 400-4
MINIMUM ORIFICE SIZE (INCHES) TO
FLUSH WATER MAIN AT 2.5 FPS

Pipe Diameter	Residual Pressure, PSI				
	20	40	60	80	100
4"	1.11	0.94	0.85	0.79	0.75
6"	1.64	1.38	1.24	1.16	1.09
8"	2.23	1.88	1.69	1.58	1.49
10"	2.75	2.31	2.09	1.94	1.84
12"	3.34	2.81	2.54	2.37	2.24
14"	3.86	3.25	2.94	2.73	2.58
16"	4.31	3.63	3.28	3.05	2.88
18"	4.98	4.19	3.78	3.52	3.33
20"	5.53	4.65	4.20	3.91	3.70

NOTE: Standard hydrant nozzle sizes are 2.5 inch and 4.5 inch

404.4.2 DISINFECTION REQUIREMENTS

a) Before being placed into service, all new water mains and/or extensions to existing mains shall be chlorinated so that an initial chlorine residual of at least 50 ppm is present, and that a chlorine residual of not less than 25 ppm remains in the water after standing 24 hours in the pipe.

b) For extensions and/or connections equal to or less than one pipe length (< 18 ft), the new pipe, fittings and valve(s) required for the connection/extension may be spray or swab disinfected with a minimum 1 percent hypochlorite solution just prior to being installed.

c) Before a tapping sleeve is installed, the exterior of the main to be tapped, as well as the interior surface of the sleeve, shall be thoroughly cleaned and swabbed with a 1 percent hypochlorite solution.

d) Fire service lines requiring disinfection shall have the permanent position indicating valve (OS&Y or approved equal) installed on the fire sprinkler riser prior to disinfection.

404.4.3 FORM OF APPLIED CHLORINE

Chlorine shall be applied by one of the methods which follow, subject to approval by the City Engineer.

a) Liquid Chlorine - A chlorine gas-water mixture shall be applied by means of a solution-feed chlorinating device or the dry gas may be fed directly through proper devices for regulating the rate of flow and providing effective diffusion of the gas into the water within the pipe being treated. Chlorinating devices for feeding solutions of chlorine gas or the gas itself must provide means for preventing the back flow of water into the chlorine cylinder.

b) Chlorine-Bearing Compounds in Water - In certain instances, when the usage of chlorine gas is not practical, such as in congested or confined areas, upon approval of the City Engineer, a chlorine bearing compound of known chlorine content, prepared in solution form, may be substituted for chlorine gas.

404.4.4 POINT AND RATE OF APPLICATION

a) Point of application - The preferred point of application of the chlorinating agent is at the beginning of the pipeline extension or any valved section of it, and through a corporation stop inserted in the pipe. The water injector for delivering the chlorine-bearing water into the pipe should be supplied from a tap made on the pressure side of the gate valve controlling the flow into the pipe line extension. Alternate points of application may be used when approved or directed by the City Engineer.

b) Rate of Application - Water from the existing distribution system, or other approved source of supply shall be controlled to flow very slowly into the newly laid pipeline during the application of the chlorine. The rate of chlorine mixture flow shall be a constant feed and in such proportion to the rate of water entering the newly laid pipe that the dosage applied to the water will be at least 50 parts per million unless otherwise directed by the City Engineer.

c) Retention Period - Treated water shall be retained in the pipe at least 24 hours. After this period, the chlorine residual at pipe extremities and at other representative points shall be at least 25 parts per million.

d) Chlorinating Valves and Hydrants - After the process of chlorinating newly laid pipe, all valves internal to the isolated test section and other appurtenances shall be operated while the pipeline is filled with the chlorinating agent and under normal operating pressure.

e) Preventing Reverse Flow - Valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the existing distribution system supplying the water. Backflow valves are required on chlorine equipment piping.

404.5 FINAL FLUSHING AND TESTING

a) Dechlorination/neutralization may be required by the City Engineer. The environment into which the chlorinated water is to be discharged shall be inspected. If there is any possibility that the chlorinated discharge will cause environmental damage, then a neutralizing chemical shall be added to the discharge water to thoroughly neutralize the chlorine residual remaining in the water (see AWWA C651-05, or latest edition, Appendix B).

b) Following chlorination, all treated water shall be thoroughly flushed from the newly laid pipe at its extremity until the replacement water throughout its length shows, upon test, a residual not in excess of that carried in the source of supply.

c) After flushing, water samples collected on 2 successive work days from the treated piping system, as directed by the City Engineer, shall show satisfactory bacteriological results. Water main shall not be flushed to obtain the second day sample. Bacteriological analysis must be performed by a laboratory approved by the Director of the Illinois Department of Public Health and the City Engineer. A minimum of two samples is required. The actual number of samples will be determined by the City Engineer.

d) Should the initial treatment result in an unsatisfactory bacterial test, the original chlorination procedure shall be repeated by the contractor until satisfactory results are obtained.

e) Naperville Department of Public Utilities must be notified at least 48 hours prior to flushing. New water mains, including pressure tap valves, connected to an existing water main, and existing water main valves shall only be operated by Naperville Department of Public Utilities personnel.



OVERSTREET BUILDERS, INC.

RESERVES OF SADDLE CREEK

06-11-2025	ADDENDUM #1
07-11-2025	ADDENDUM #2
08-07-2025	ADDENDUM #3
09-02-2025	ADDENDUM #4
09-15-2025	ADDENDUM #5

DATE	: 04-16-2025
PROJECT #	: W24300.00
DESIGNED BY	: MD
DRAWN BY	: MD
CHECKED BY	: NAV

GENERAL NOTES

C-2.1 SHEET

WATER UTILITES GENERAL NOTES

- a. New water main valves, including pressure tap valves, adjacent to an existing water main, and existing water main valves shall only be operated by the City of Naperville, Department of Public Utilities CEE/CM Division personnel with 48-hour notice (Monday-Friday). Contact Naperville TED Business Group at 630-420-6082 for scheduling.
- b. Any existing utility structures requiring adjustment or reconstruction shall be completed by the contractor to the satisfaction of the utility owner. Adjustments and/or reconstructions not called for on the plans shall be considered incidental to the contract. No more than a total of 12 inches of adjusting rings and/or 2 adjusting rings shall be allowed. All structure frames shall be flush with final grade.
- c. Trees shall be installed a minimum of five (5) feet horizontally from underground electrical feeders, sanitary sewers, sanitary services, water mains, and water services. Trees shall be installed a minimum of ten (10) feet horizontally from utility structures and appurtenances, including, but not limited to, manholes, valve vaults, valve boxes and fire hydrants. No trees, shrubs or obstacles will be allowed 10' in front of, 5' on the sides, and 7' to the rear of the electrical transformer.
- d. All retainer glands when required to restrain valves, fittings, hydrants, and pipe joints shall be mechanical joint wedge action type MEGALUG 1100 Series as manufactured by EBBA Iron, Inc. or UNI-FLANGE BLOCKBUSTER 1400 SERIES as manufactured by Ford Meter Box Co. and shall be for use on ductile iron pipe conforming to ANSI/AWWA C151/A21.51, for nominal pipe sizes 3" through 48".
- e. Existing ductile iron systems for restraining push-on pipe bells shall be MEGALUG SERIES 1100HD or FORD SERIES 1390.
- f. Existing ductile iron systems requiring restraint shall be MEGALUG SERIES 1100SD (split MEGALUG) for mechanical joints.
- g. Ductile iron water main to be Class 52. All ductile iron pipe is to be encased in polyethylene film Polyethylene encasement to be installed in accordance with ANSI/AWWA C105/A21.5-05.
- h. A set of as-built record drawing shall be given to the City of Naperville upon completion of improvements showing the elevation and location (tied to two points) of all new and existing structures including fire hydrants, valve boxes and vaults, linestop sleeves, water service corporation stops, water main fittings/bends, manholes, sanitary service wyes (measured from downstream manhole), and abandoned water or sanitary service lines. All elevations should be referenced to the same benchmark datum as the original design plans. Horizontal ties shall be referenced to lot lines, back of curb, or property corners.
- i. All sanitary sewer piping shall be PVC pipe meeting the requirements of ASTM D-2241 with joints conforming to ASTM D-3139. All sanitary sewer fittings shall be PVC meeting the following requirements: 4" to 12" shall be Injection Molded Fittings meeting ASTM D-2241. Greater than 12" shall be Fabricated Fittings meeting ASTM D-2241 or C905. Minimum pressure rating shall be 150 psi.
- j. The valves less than 16" shall be standard pattern, gate valves and shall have the name or mark of the manufacturer, size and working pressure plainly cast in raised letters on the valve body. Valves may be approved from one of the following manufacturers: American, Clow, Waterous or Kennedy.
- k. Stainless steel nuts, bolts/T-bolts, and washers, Type 304 or better, will be required on all water main installations. This would apply to hydrants, tapping sleeves, valves, fittings, restraint, and other appurtenances buried or in valve vaults. Mechanical joints and restraint glands require 304 stainless steel T-bolts. An anti-seize compound shall be factory applied to nuts or bolts - any damage to this coating shall be repair with field applied approved anti-seize compound that is a molybdenum-base lubricant, Bostik Never-Seez or approved equal.
- l. The contractor shall rotate and/or adjust any existing and/or new hydrant to the satisfaction of the Department of Public Utilities.
- m. Water mains shall be subjected to a hydrostatic/leakage test in accordance with Naperville Standard Specifications. Test pressure shall be no less than 150 psi for a period of 4 hours and not vary by more than ± 5 psi. during the test. The test gauge shall be approved by the City and shall be glycerin or oil filled, with a range of not more than 200 psi and increments not greater than 5 psi, 4" minimum dial size. Water recovery test shall be completed at the end of the testing period to show actual leaking and that the water main did not have too much trapped air in the tested section.
- n. The City of Naperville Public Utilities does not guarantee that any valve or fitting in the existing water distribution system will hold against a hydrostatic/leakage test. The Contractor is solely responsible for providing and acceptable pressure test which shall include provisions around existing valves and fittings.
- o. Fire hydrant should be bagged "NOT IN SERVICE" until all testing and disinfection has been completed and new water main section is service.
- p. Sanitary sewer and water shall be constructed, tested, and placed into service in accordance with City of Naperville Standard Specification and Specifications for Water and Sewer Main Construction in Illinois, Latest Edition.
- q. All valve boxes, vaults, hydrants, and manholes shall not be covered with construction debris and shall remain accessible to the respective utility company.
- r. Water service line smaller than 3" shall be type K copper. If joints are required due to length of service, then only compression type coupling shall be permitted. No soldered or flared type joints are allowed.
- s. All sanitary manholes shall be tested for leakage by vacuum testing. The manhole frame and adjusting rings shall be in place when testing. Any leaks shall be repaired from exterior of manhole - patching inside of manhole shall not be acceptable. A vacuum of 10" (254 mm) Hg shall be placed on the manhole and the time shall be measured for the vacuum to drop to 9" (229 mm) Hg. The vacuum shall not drop below 9" (229 mm) Hg for the following time periods for each size of manhole:
 - a) 48-inch diameter - 60 seconds
 - b) 60-inch diameter - 75 seconds
 - c) 72-inch diameter - 90 seconds
 - d) 84-inch diameter - 105 seconds
 Manholes that fail the test shall be sealed and re-tested until acceptable.
- t. The contractor shall provide internal televised inspection of all installed sanitary sewer, laterals, manholes and connections to the public system. Following completion of televising work, the contractor shall submit video recordings on DVD or flash drive along with a comprehensive televising report which will indicate the location, footages and nature of any defects. Prior to final acceptance, these defects shall be repaired to the satisfaction of the Water/Wastewater Utility and re-televised.
- u. Contractor work hours are only allowed from 7:00 a.m. to 5:00 p.m.,

- Monday through Saturday. No work shall be permitted on Sundays.
- v. Sanitary pipes with less than 4 feet or more than 25 feet of cover shall be constructed of ductile iron piping (Class 50, minimum) and encased in polywrap.
- w. All excavations more than 20 feet deep must be protected by a system designed by a registered professional engineer.
- x. Contractor shall maintain 2' minimum clearance between existing utilities and new foundations and underground facilities. In areas where foundations and underground facilities are proposed adjacent to existing utilities, the contractor shall pot hole by vacuum excavation or hand excavation to locate the existing utility to verify minimum clearance requirement.
- y. Fences shall be installed a minimum of 5 feet from any water or sanitary mains when running parallel with them. Where fences are installed crossing water or sanitary mains, the posts shall be located to have the main between them.
- z. All brass components shall be certified to be lead free in compliance with NSF 61 and NSF 372 and identified with applicable markings.
- aa. **Sanitary Force Main** - Force man shall be tested a minimum of 1 hour at 1.5 the shut off head of the pump, 2.5 times the operating pressure, or 20 psi whichever is greatest. Allowable leakage shall be in accordance with section 41.2-1.14C of the standard specifications for water and sewer construction.

Section 200. Storm Sewer Naperville Standard Specifications

201 GENERAL
The standards and requirements found in this article are for the materials and construction of storm sewer systems within the City of Naperville, Illinois.

201.1 SPECIFICATIONS
All work and equipment performed and installed under this section shall be governed by and shall comply with the following specifications, manuals, and codes listed in Section 102.2. The most current editions and all subsequent revisions and alterations for the specifications are required.

201.2 CONNECTION TO EXISTING FACILITIES
No connection to an existing public storm sewer may be made without permission of the City Engineer.

202 MATERIALS

202.1 PIPES
The following materials will be permitted for storm sewer and pipe culverts. Where a particular material is specified in the plans or special provisions, no other kind of material will be permitted:

202.1.1 REINFORCED CONCRETE PIPE (RCP)
Reinforced concrete pipe shall conform to ASTM Designation C 76, Classes I, II, III, IV or V. Bituminous joints shall conform to ASTM Designations C 14 or C 76 as may be applicable. Bituminous material shall consist of a homogeneous blend of bitumen, inert filler, and suitable solvent approved by the City Engineer. Rubber gasket joints shall conform to ASTM C 433.

Reinforced concrete pipe shall also be permitted as round, elliptical, or box shaped or as Reinforced Concrete Arch Culvert.

202.1.2 NON-REINFORCED CONCRETE PIPE
Non-reinforced concrete pipe shall be allowed for pipes with a 10 inch or smaller diameter. Non-reinforced concrete pipe shall conform to ASTM Designation C 14, Class 3. Bituminous joints shall conform to ASTM Designations C 14 or C 76 as may be applicable. Bituminous material shall consist of a homogeneous blend of bitumen, inert filler, and suitable solvent approved by the City Engineer. Rubber gasket joints shall conform to ASTM C 433.

202.1.3 DUCTILE IRON PIPE (DIP)
Ductile iron pipe shall conform to ANSI A 21.51 (AWWA C-151), class thickness designed per ANSI A 21.50 (AWWA C-150), tar (seal) coated and cement lined per ANSI A 21.4 (AWWA C-104), with mechanical or rubber ring (slip seal or push on) joints. All ductile iron pipe shall be wrapped with polyethylene.

202.1.4 POLYVINYL CHLORIDE PIPE (PVC)
Polyvinyl Chloride (PVC) pipe shall conform to ASTM D 3034, type PSM. The minimum Standard Dimension Ratio (SDR) shall be 26. The pipe shall be made of PVC plastic having a minimum cell classification of 12454-C, and shall have a minimum pipe stiffness of forty-six (46) lbs. per inch (317 kPa). Joints for PVC pipe shall be flexible elastomeric seals per ASTM D 3212.

202.1.5 HIGH DENSITY POLYETHYLENE PIPE (HDPE)
High-density polyethylene (HDPE) pipe shall conform to the requirements of AASHTO M 252 and M 294. Pipe and fittings shall be made from virgin PE compounds which conform to the requirements of cell class 324420C as defined and described in ASTM D 3350. Rubber gasket joints shall be used.

202.1.6 FULLY GALVANIZED CORRUGATED STEEL PIPE
Fully Galvanized Corrugated Steel Pipe may be used for residential driveway crossings only when a ditch section is present. The minimum culvert size is 12" diameter.

202.2 GRANULAR PIPE BEDDING
Bedding, other than concrete embedment, shall consist of gravel, crushed gravel, or crushed stone 1/4 inch to 1 inch in size. As a minimum, the material shall conform to the requirements of IDOT standard specifications. The gradation shall conform to gradation CA-7 or CA-11 of the Standard Specifications.

202.3 GRANULAR PIPE BACKFILL
Backfill material shall conform to the requirements of IDOT standard specifications. The gradation shall conform to gradation CA-6 of the Standard Specifications.

202.4 CONNECTING DISSIMILAR PIPE MATERIALS
Joints connecting dissimilar pipe materials shall be made with sewer clamp non-shear type couplings; Cascade CSS, Romac LSS, Fernco, Inc. Shear Ring, or approved equal. When available, a standard joint with a transition gasket may be used. The name of the manufacturer, class, and date of issue shall be clearly identified on all sections of pipe. The contractor shall also submit bills of lading, or other quality assurance documentation when requested by the City Engineer.

202.5 MANHOLES
Manholes for storm sewers shall have a minimum inside diameter of 48 inches and shall be constructed of precast concrete units in accordance with ASTM C478-05 (or latest edition) and shall conform to the City of Naperville standard detail. All manholes shall be water-tight. All visible leaks shall be sealed in a manner acceptable to the City Engineer.

202.5.1 FRAME AND COVER
Manholes shall be furnished with a self-sealing frame and solid cover (East Jordan Iron Works 1022 with Type A solid cover, or approved equal) with the word "Storm" imprinted on the cover in raised letters. All frames and lids shall meet or exceed AASHTO H-20 loading specifications. Frames shall be shop painted with asphaltic base paint.

Both the manhole frame and cover shall have machined horizontal and vertical bearing surfaces. Inverted manhole frames are not allowed.

Pick holes shall not create openings in the manhole cover.

202.5.2 STEPS
Manhole steps on maximum 16 inch center shall be furnished with each manhole, securely anchored in place, true to vertical alignment, in accordance with the Naperville Standard Details. Steps shall be copolymer polypropylene reinforced with 1/2 inch A615/A615M45a (or latest edition) Grade 60 steel reinforcement, meeting or exceeding ASTM C 478-05 (or latest edition) and OSHA standards

202.6 CATCH BASINS AND INLETS
Catch basins and inlets shall have a minimum inside diameter of 24 inches and shall be constructed of precast concrete units in accordance with ASTM C478-05 (or latest edition) and shall conform to the City of Naperville standard detail. All catch basins and inlets shall be water-tight at all points below grade. All visible leaks shall be sealed in a manner acceptable to the City Engineer.

202.6.1 FRAME AND GRATE
Catch basins and inlets shall be furnished with a frame and grate based upon the location of the installation as listed below. All frames and grates shall meet or exceed AASHTO H-20 loading specifications. Frames shall be shop painted with asphaltic base paint. All storm sewer lids and grates shall be cast with "Dump No Waste. Drains To River."

a) Pavement: East Jordan Iron Works 1022 Frame with Type M1 Radial Flat Grate, or approved equal.

b) Barrier curb and gutter: East Jordan Iron Works 7220 Frame with Type M1 Grate and T1 Curb Box, or approved equal.

c) Depressed curb: East Jordan Iron Works 5120 Frame and Grate, or approved equal.

d) Mountable curb: East Jordan Iron Works 7525 Frame and Grate, or approved equal.

e) Non-paved areas: East Jordan Iron Works 6527 Beehive Grate, or approved equal. Alternately, in areas where there is the likelihood of pedestrian traffic, East Jordan Iron Works 1022 Frame with Type M1 Radial Flat Grate, or approved equal may be used.

202.7 CASING PIPES
All steel casing pipe shall be bituminous coated, a minimum of 30 mils thickness inside and out, shall be of leak proof construction and capable of withstanding the anticipated loadings. The minimum wall thickness for the casing pipe shall be in accordance with Table 200-1. The steel casing pipe shall have minimum yield strength of 35,000 psi and shall meet the requirements of A1391/A1391M-04 (or latest edition), Grade B. Ring deflection shall not exceed 2% of the nominal diameter. The steel casing pipe shall be delivered to the jobsite with beveled ends to facilitate field welding.

**TABLE 200-1
REQUIRED CASING PIPE WALL THICKNESS**

Steel Casing Diameter	Minimum Wall Thickness (Inches)
20"- 22"	0.344
24"	0.375
28"	0.438
30"	0.469
32"	0.501
34"- 36"	0.532

203 CONSTRUCTION REQUIREMENTS

203.1 GENERAL REQUIREMENTS

203.1.1 RESPONSIBILITY FOR MATERIALS
The contractor shall be responsible for the acceptability and storage of all materials furnished by him and shall assume responsibility for the replacement of all such material found damaged in shipping or on job site or defective in manufacture. This shall include the furnishing of all material and labor required for the replacement of installed material discovered to be defective prior to the final acceptance of the work.

203.1.2 STORAGE OF PIPING MATERIALS
The interior, as well as all sealing surfaces of all pipe, fittings, and other accessories shall be kept free from dirt and foreign matter. Store pipe bundles on flat surfaces with uniform support. Pipe stored outside and exposed to prolonged periods of sunlight should be covered with canvas or other opaque material. Clear plastic sheets shall not be used. Air circulation shall be provided under covering. Keep gaskets away from oil, grease, electric motors (which produce ozone), excessive heat and direct rays of the sun. Consult the manufacturer for specific storage recommendations.

203.1.3 HANDLING OF PIPING MATERIALS
Piping materials shall be unloaded, hauled and distributed at the site of the project by the contractor. Materials shall at all times be handled properly to prevent damage in accordance with manufacturer's recommendations. Pipe and fittings shall not be thrown, dropped, or dragged. Damaged or defective material on the job site shall be rejected and replaced to the satisfaction of the City Engineer. Methods of construction conducive to the damage of sewer pipe shall be corrected when called to the attention of the contractor. All pipe and fittings shall be examined by the contractor above grade before placement in the trench.

203.2 MANHOLES, CATCH BASINS AND INLETS

203.2.1 INSTALLING STRUCTURES IN NON-PAVED AREAS
Only structures without sumps shall be permitted in non-paved areas. Straw bales shall be staked in place at each structure to prevent debris and foreign material from entering the system during construction.

203.2.2 INSTALLING STRUCTURES IN PAVED AREAS
For structures located in paved areas, a minimum of four, 2 inch diameter holes shall be drilled or precast into the structure within 1 foot of the lowest pipe invert. The holes shall be distributed equidistant around the perimeter of the structure. A one (1) foot by one (1) foot section of underdrain filter cloth material shall be sufficiently fixed to the outside of the manhole with mastic materials to prevent slippage during backfilling.

203.2.3 WATER-TIGHTNESS
Non-shrinking hydraulic cement shall be used on all interior and exterior joints within the barrel section to provide a water-tight seal between structure sections. No hydraulic cement shall be applied above the cone section or flat top.

203.2.4 PIPE CONNECTIONS
All structures without sumps shall be provided with a precast or cast-in-place concrete fillet, or bench, to provide a smooth flow between pipe sections.

The inside and outside of all pipe section connections to storm structures shall be shaped with additional mortar to provide a 3 inch collar around the pipe.

203.2.5 FRAME ADJUSTMENTS
Adjustments may be necessary to ensure that frames and grates match the elevation of the surrounding pavement or ground surface. Preformed adjusting rings of the proper dimensions needed to mate the frame to the precast structure shall be used. No more than 12 inches of vertical adjustment may be made using the minimum practical number of individual rings.

All rings shall be High Density Polyethylene Plastic (HDPE), Recycled Rubber, High Density Expanding Polystyrene, Expanded Polypropylene (EPP), or other material as approved by the City Engineer. Precast concrete rings, bricks, rocks, shims, or concrete blocks will not be allowed. Tapered adjusting rings shall be required when the frame will need to match the slope of the roadway.

A resilient, flexible, non-hardening, preformed bituminous mastic material, Conseal 102 B or approved equal, shall be used between the cone or top barrel section of the structure and the adjusting rings. A thick bead of non-hardening elastomeric joint sealant conforming to ASTM C-920, Type S, Grade NS, shall be applied between all individual rings, and between the adjusting rings and the frame. The sealant or mastic material shall be applied in such a manner that no surface water or ground water inflow can enter the structure.

All storm sewer structure frames without inside flanges shall be shaped with hydraulic cement or elastomeric joint sealant to form a fillet to the structure or adjusting rings and to maintain water-tightness.

Frame adjustments shall be completed in accordance with Sections 602 and 603 of Standard Specifications for Road and Bridge Construction, prepared by the Illinois Department of Transportation, latest edition, except as noted herein.

203.3 TRENCH BACKFILL, BEDDING & BACKFILL.
Granular pipe bedding and haunching shall be required on all storm sewers installed in the City of Naperville. Initial backfill shall be required for all sewers constructed of PVC or other flexible pipe material.

203.3.1 PIPE BEDDING
Bedding, other than concrete embedment, shall consist of gravel, crushed gravel, or crushed stone. The pipe shall be laid so that it will be uniformly supported and the entire length of the pipe barrel will have full bearing. No blocking of any kind shall be used to adjust the pipe to grade except when used in conjunction with embedment concrete. Bedding shall be required for all sewer construction, and shall be of a thickness equal to 1/4 of the outside diameter of the sewer pipe with a maximum thickness of 8 inches. Granular pipe bedding shall be a minimum of 4 inches in earth excavation and a minimum of 6 inches in rock excavation.

Where unsuitable material is encountered at the grade established, all such unsuitable soil shall be removed under the pipe and for the width of the trench, and shall be replaced with well compacted bedding material. The size range and resulting high voids ratio of bedding material make it suitable for use to dewater trenches during pipe installation. This permeable characteristic dictates that its use be limited to locations where pipe support will not be lost by migration of fine grained natural material from the trench walls and bottom or migration of other materials into the bedding material. When such migration is possible, the material's minimum size range should be reduced to finer than 1/4 inch and the gradation properly designed to limit the size of the voids.

Bedding materials shall be placed to provide uniform and adequate longitudinal support under the pipe. Bell holes at each joint shall be provided to permit the joint to be assembled properly while maintaining uniform pipe support. When the joint has been made, the void under the bell will be filled with bedding or haunching material.

203.3.2 HAUNCHING
The most important factor affecting pipe performance and deflection is the haunching material and its density. Place and consolidate the material under the pipe haunch to provide adequate side support to the pipe while avoiding both vertical and lateral displacement of the pipe from proper alignment. The same course materials as used for initial backfill shall also be used for haunching. Place haunching up to the pipe spring line.

203.3.3 INITIAL BACKFILL FOR FLEXIBLE PIPE
Initial backfill begins above the spring line of the pipe and extends to a point 6 inches above the top of the pipe and shall be CA-7 or CA-11 carefully placed so as to completely fill the space around the pipe, in 8 inch layers, loose measurements, and compacted to the satisfaction of the City Engineer.

203.3.4 SELECTED GRANULAR BACKFILL
The backfill for trenches and excavation made in existing or under proposed pavements where the inner edge of the trench is within 2 feet of the edge of the pavement, curb, gutter, and gutter, or sidewalk, shall be made with compacted selected granular material conforming to IDOT gradation CA-6. Selected granular backfill shall be placed in uniform layers not exceeding 6 inches (loose measure) and compacted with mechanical equipment to 95% of the standard proctor density in accordance with the applicable AASHTO or ASTM requirements.

203.3.5 DEPTH OF PIPE COVER
The depth of cover over the pipe shall be appropriate for the material and class of pipe specified for the installation. In no case shall the cover over the pipe be less than 24 inches unless specifically allowed otherwise by the City Engineer.

203.4 PIPE INSTALLATION

203.4.1 LAYING OF PIPE
All pipe shall be laid true to line and grade. Dirt and other foreign material shall be prevented from entering the pipe or pipe joint during handling or laying operations.

203.4.2 PIPE TO PIPE CONNECTIONS
All storm sewer pipe to pipe connections shall be sealed with butyl mastic to ensure water tightness. Lift holes are to be sealed using butyl mastic and concrete plugs. At no time shall connections between the storm sewer system and sanitary sewer systems be allowed.

Alternately, premium joint pipe with integral o-rings may be used.

203.4.3 END SECTIONS
Storm sewer pipes may be terminated with special end sections including flared end sections and box inlets. Any end section with an opening greater than 12 inches in diameter shall be covered with a grate whose openings are 3 inch horizontal by 8 inch vertical and is rakeable.

203.4.4 EXISTING DRAIN OR FIELD TILES
All drain or field tiles encountered during construction must be connected to the storm drainage system. The location of known field tiles shall be depicted on the final engineering plans. The connection point of all field tiles to the storm drainage system must be shown on the record drawings for storm sewers.

204 INSPECTION AND TESTING

204.1 CLEANING
Prior to acceptance, all the storm sewer and storm sewer appurtenances shall be cleaned and operational to the satisfaction of the City Engineer.

204.2 VISUAL TEST
The City of Naperville may require that storm sewer lines be inspected visually to verify accuracy of alignment and freedom from debris and obstructions. The percentage of sewer lines inspected will be designated by the City Engineer. The full diameter of the pipe for straight alignments shall be visible when viewed between consecutive manholes. The method of test shall be either photography or closed circuit television, unless a specific method is required by the special provisions and approved by the City Engineer.

204.3 DEFLECTION TESTING FOR FLEXIBLE PIPE
A mandrel test is required by the City of Naperville. The City Engineer shall randomly select portions of the project to be deflection tested. Such portions shall consist of the manhole intervals for the initial sewer construction up to 1,200 linear feet and not less than 20% of the remainder of the sewer project. The City of Naperville reserves the right to test more or less pipe if considered appropriate by the City Engineer.

The 5% deflection test for pipe sizes 6 inches to 18 inches in diameter is to be run using a nine-arm mandrel having a diameter equal to 95% of the inside diameter of the pipe as established in ASTM D-2241-96b. Table 200-2 was developed using the equations outlined in Section 31-1.11C of the Standard Specifications for Water and Sewer Main Construction in Illinois and shall be applied to testing of storm sewer pipe.

**TABLE 200-2
REQUIRED MANDREL SIZE FOR FLEXIBLE PIPE**

Nominal Pipe Size, Inches	Average Inside Diameter (PVC)	Required Mandrel Size, Inches
6	6.08	5.68
8	7.92	7.38
10	9.87	9.23
12	11.71	10.98
14	12.86	12.02
16	14.70	13.65

204.3.1 TIME OF TESTING
The individual lines to be tested shall be tested no sooner than 30 days after they have been installed by the contractor. During the first year of implementation, additional testing may be performed by the City of Naperville.

204.3.2 SEQUENCE OF TESTING
Wherever possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines.

204.3.3 TESTING OF ENTIRE PROJECT
In the event that the deflection exceeds the 5% limit in 10% or more of the manhole intervals tested, the total sewer project shall be tested.

204.3.4 RETEST OF FAILED SECTIONS
Where deflection is found to be in excess of 5% of the base inside diameter, the contractor shall excavate to the point of excess deflection and carefully compact around the point where excess deflection was found. The line shall then be retested for deflection. However, if the deflected pipe fails to return to the original size (inside diameter) after the initial testing, the affected segment shall be replaced.

**Transportation, Engineering and Development Business Group
Standard Construction Plan Notes for Development Projects
AUGUST 2023**

The City of Naperville Transportation, Engineering and Development (TED) Business Group has established Standard Notes, which should be included in the final engineering plans for private development projects. The Standard Notes are broken out by type of work. The Consultant designing the final engineering plans should review the lists below to determine which Standard Notes should be included.

Please note that the City of Naperville Department of Public Utilities – Water/Wastewater (DPU-W) has their own Standard Notes they require for water and sanitary sewer work in private development final engineering plans. Please contact DPU-W for the Water/Wastewater Standard Notes.

General Notes
The General Notes in this section should be included in all final engineering plans regardless of the type of project.

1	THE OWNER OR THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
2	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION).
3	ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.
4	THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
5	THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.
6	PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.
7	THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED.
8	A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6100 OPTION 1) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.
9	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
10	THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420-6100 OPTION 1 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).
11	RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
12	FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.

General Notes (Project Specific)
The Consultant should review the following General Notes to determine if they are applicable to the work to be completed with the project. Those Notes that are applicable should be included in the engineering plans.

1	TRAFFIC SIGNALS AND THEIR ASSOCIATED EQUIPMENT UNDER THE JURISDICTION OF DUPAGE COUNTY ARE NOT INCLUDED IN THE JULIE SYSTEM. THE CONTRACTOR SHALL CONTACT DUPAGE COUNTY DOT AND IDOT DIRECTLY REGARDING THE LOCATION OF TRAFFIC SIGNALS (CABLING AND ASSOCIATED SYSTEMS) UNDER DUPAGE COUNTY OR IDOT JURISDICTION.
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(630) 226-0460 EXT 206

RESERVES OF SADDLE CREEK
10826-10946 BOOK ROAD, NAPERVILLE, IL 60546

ADDENDUM #1	06-11-2025
ADDENDUM #2	07-11-2025
ADDENDUM #3	08-07-2025
ADDENDUM #4	09-03-2025
ADDENDUM #5	09-15-2025

DATE	: 04-16-2025
PROJECT #</	

Storm Sewer Notes (General)

The Storm Sewer Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

Table with 2 columns: Note number and description. Note 1: NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER. Note 2: THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET.

Storm Sewer Notes (Storm Sewer Work in Plans)

The Storm Sewer Notes in this section are intended to be included when a project includes storm sewer work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

The first note provided below includes information regarding all the allowable storm sewer pipe materials. Only those materials that are identified on the plans are required to be included. However, if the contractor requests a change to the pipe material and the associated pipe material information is not included in the engineering plans, the applicable Storm Sewer Note will need to be added to final engineering plans as part of the field change request.

Table with 2 columns: Note number and description. Note 1: THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE CULVERTS. Note 1a: REINFORCED CONCRETE PIPE (RCP) - REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, IV OR V. Note 1b: NON-REINFORCED CONCRETE PIPE - NON-REINFORCED CONCRETE PIPE SHALL BE ALLOWED FOR PIPES WITH A 10 INCH OR SMALLER DIAMETER. Note 1c: DUCTILE IRON PIPE (DIP) - DUCTILE IRON PIPE SHALL CONFORM TO ANSI A 21.51 (AWWA C-151). Note 1d: POLYVINYL CHLORIDE PIPE (PVC) - POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM D 3034, TYPE PSM. Note 1e: HIGH DENSITY POLYETHYLENE PIPE (HDPE) - HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 252 AND M 294. Note 1f: FULLY GALVANIZED CORRUGATED STEEL PIPE - FULLY GALVANIZED CORRUGATED STEEL PIPE MAY BE USED FOR RESIDENTIAL DRIVEWAY CROSSINGS ONLY WHEN A DITCH SECTION IS PRESENT. Note 2: BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE 1/4 INCH TO 1 INCH IN SIZE. Note 3: BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. Note 4: JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS. Note 5: MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS. Note 6: MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER.

Table with 2 columns: Note number and description. Note 7: MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH MANHOLE, SECURELY ANCHORED IN PLACE, TRUE TO VERTICAL ALIGNMENT. Note 8: CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS. Note 9: THE STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS INSIDE AND OUT. Note 10: ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. Note 11: FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2-INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT.

DEPARTMENT OF PUBLIC UTILITIES - ELECTRIC GENERAL NOTES:

- 1. THE DEVELOPER SHALL COORDINATE SITE CONSTRUCTION WITH DPU-E TO ALLOW ELECTRIC FACILITIES TO BE INSTALLED PRIOR PAVING AND CURBING. DPU-E REQUIRES 30 WORKING DAYS ADVANCE WRITTEN NOTICE PRIOR TO PAVEMENT INSTALLATION TO ALLOW FOR THE INSTALLATION OF ELECTRIC FACILITIES. GRADE ELEVATION MUST BE WITHIN 4" OF FINAL GRADING BEFORE ELECTRIC FACILITIES CAN BE INSTALLED.
- 2. ELECTRIC FACILITIES SHALL BE INSTALLED PURSUANT TO SECTION 8-1C-3 OF THE CITY OF NAPERVILLE MUNICIPAL CODE, WHICH REQUIRES A CONSTRUCTION FEE PAYMENT FOR INSTALLATION OF ELECTRIC FACILITIES.
- 3. AT ALL TIMES, THE CUSTOMER SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING A SUITABLE APPROACH TO THE METER LOCATION, WITH NO OBSTRUCTIONS WITHIN FOUR (4)' FEET OF THE FRONT AND TWO (2)' FEET OF THE SIDES OF THE METER. PER NAPERVILLE SERVICES RULES AND POLICIES 22.2.F.
- 4. CLEARANCE TO TRANSFORMER PAD SHALL BE 5' FROM ALL SIDES, 10' FROM FRONT, AND THE AREA ABOVE MUST BE COMPLETELY CLEAR OF OBSTRUCTIONS. NO TREES, SHRUBS, OR OTHER OBSTACLES WILL BE ALLOWED WITHIN THIS AREA. TRANSFORMER PAD SHALL MAINTAIN CLEARANCE OF 20' FROM EGRESS POINTS. PER DPUE SPECIFICATIONS C10-2130 AND C30-0016.
- 5. DPU-E REQUIRES A MINIMUM OF 5' SEPARATION BETWEEN ITS ELECTRIC FACILITIES AND ANY FIRE HYDRANTS, STORM DRAINS, WATER MAINS, GAS MAINS, ETC. THAT RUN PARALLEL TO ITS FACILITIES.
- 6. TO HAVE AN EXISTING SERVICE DISCONNECTED CALL THE CITY DISPATCH OFFICE AT 630-420-6187. PLEASE ALLOW AT LEAST 24 HOURS NOTICE. METERS AND METER SEALS ARE TO BE REMOVED ONLY BY DPU-E PERSONNEL. THE LOCATION AND TYPE OF NEW OR REPLACEMENT METER RELATED TO EQUIPMENT MUST BE PRE-APPROVED IN WRITING BY DPU-E. AN ELECTRIC SERVICE MUST BE INSPECTED BY THE DEVELOPMENT SERVICES TEAM ELECTRICAL INSPECTOR PRIOR TO CONNECTION.
- 7. LABEL ALL METER SOCKETS WITH THE COMPLETE ADDRESS IN 1" LETTERS USING PERMANENT STICKERS. IN MULTIPLE METER BANKS, THE COMPLETE ADDRESS MAY BE ON THE DISCONNECT SWITCH AND THE SUITE NUMBERS ON THE METER SOCKETS. THE ELECTRICAL SERVICE EQUIPMENT WILL NOT PASS INSPECTION WITHOUT THE APPROPRIATE ADDRESS LABELING.

Erosion Control and Drainage Notes (General)

The Erosion Control and Drainage Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

Table with 2 columns: Note number and description. Note 1: THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. Note 2: DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE. Note 3: DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS.

Erosion Control and Drainage Notes (Project Specific)

The Erosion Control and Drainage Notes in this section are intended to be included when a project includes erosion control work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

Table with 2 columns: Note number and description. Note 1: ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. Note 2: ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER. Note 3: ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. Note 4: STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED. Note 5: ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH OR GREATER RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.

Erosion Control and Drainage Notes (NPDES Permit)

The Erosion Control and Drainage Note in this section should be included if the project requires an NPDES permit.

Table with 2 columns: Note number and description. Note 1: IT IS THE RESPONSIBILITY OF THE OWNER OR HIS DESIGNEE TO INSPECT ALL TEMPORARY EROSION CONTROL MEASURES PER THE REQUIREMENTS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.

Geometric and Paving Notes (General)

The Geometric and Paving Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

Table with 2 columns: Note number and description. Note 1: THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS. Note 2: ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER. Note 3: THE CONTRACTOR AND/OR DEVELOPER SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. Note 4: THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION. Note 5: WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE. Note 6: ALL PAVEMENT PATCHES WITHIN THE PUBLIC RIGHT-OF-WAY MUST CONFORM TO CITY STANDARDS.

Traffic Control and Protection Notes (General)

The Traffic Control and Protection Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

Table with 2 columns: Note number and description. Note 1: ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. Note 2: PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. Note 3: THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. Note 4: ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

Traffic Control and Protection Notes (Arterial Roads)

The Traffic Control and Protection Notes in this section should be included in all final engineering plans if the project involves work either in or adjacent to arterial roadways.

Table with 2 columns: Note number and description. Note 1: LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE HOURS OF 6AM-9AM AND 3PM-7PM MONDAY THROUGH FRIDAY. Note 2: ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROW BOARD AS PART OF THE TRAFFIC CONTROL.

Traffic Control and Protection Notes (General)

The Traffic Control and Protection Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

Table with 2 columns: Note number and description. Note 1: ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. Note 2: PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. Note 3: THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. Note 4: ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

Traffic Control and Protection Notes (Arterial Roads)

The Traffic Control and Protection Notes in this section should be included in all final engineering plans if the project involves work either in or adjacent to arterial roadways.

Table with 2 columns: Note number and description. Note 1: LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE HOURS OF 6AM-9AM AND 3PM-7PM MONDAY THROUGH FRIDAY. Note 2: ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROW BOARD AS PART OF THE TRAFFIC CONTROL. Note 3: AT THE END OF EACH DAY OF WORK, THE ROADWAY MUST BE COMPLETELY REOPENED TO TRAFFIC.

Traffic Control and Protection Notes (Downtown)

The Traffic Control and Protection Notes in this section should be included in all final engineering plans if the project is located in downtown Naperville.

Table with 2 columns: Note number and description. Note 1: PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN THE DOWNTOWN. Note 2: ANY WORK IMPACTING THE PUBLIC RIGHT-OF-WAY SHALL NOT BE ALLOWED IN THE DOWNTOWN ON A FRIDAY, SATURDAY, SUNDAY, AND/OR HOLIDAY. Note 3: ALL WORK IN THE DOWNTOWN SHALL BE COORDINATED WITH THE DOWNTOWN NAPERVILLE ALLIANCE (DNA) TO AVOID CONFLICT WITH SPECIAL EVENTS. Note 4: UNLESS REQUIRED TO SUPPORT THE CURRENT WORK EFFORT, WORKERS' PERSONAL VEHICLES MAY NOT BE PARKED ON-STREET.



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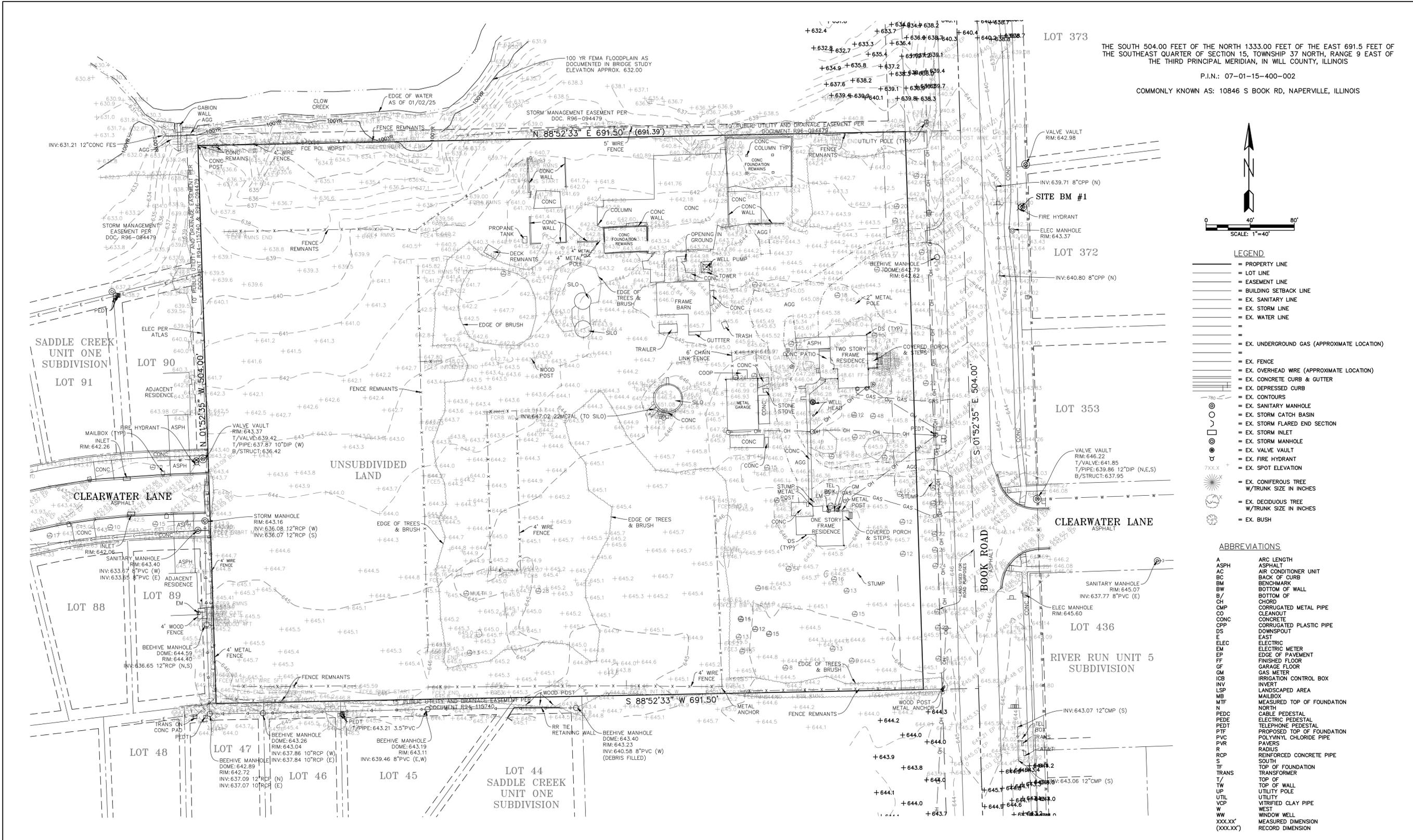
RESERVES OF SADDLE CREEK 10826-10946 BOOK ROAD, NAPERVILLE, IL 60546

Table with 2 columns: Addendum number and date. ADDENDUM #1: 06-11-2025, ADDENDUM #2: 07-11-2025, ADDENDUM #3: 08-07-2025, ADDENDUM #4: 09-02-2025, ADDENDUM #5: 09-15-2025

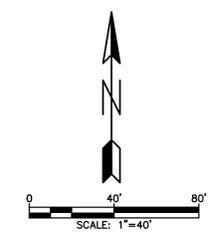
Table with 2 columns: Field and value. DATE: 04-16-2025, PROJECT #: W24300.00, DESIGNED BY: MD, DRAWN BY: MD, CHECKED BY: NAV

GENERAL NOTES

C-2.3 SHEET



THE SOUTH 504.00 FEET OF THE NORTH 1333.00 FEET OF THE EAST 691.5 FEET OF THE SOUTHEAST QUARTER OF SECTION 15, TOWNSHIP 37 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN WILL COUNTY, ILLINOIS
 P.I.N.: 07-01-15-400-002
 COMMONLY KNOWN AS: 10846 S BOOK RD, NAPERVILLE, ILLINOIS



- LEGEND**
- = PROPERTY LINE
 - = LOT LINE
 - = EASEMENT LINE
 - = BUILDING SETBACK LINE
 - = EX. SANITARY LINE
 - = EX. STORM LINE
 - = EX. WATER LINE
 - = EX. UNDERGROUND GAS (APPROXIMATE LOCATION)
 - = EX. FENCE
 - = EX. OVERHEAD WIRE (APPROXIMATE LOCATION)
 - = EX. CONCRETE CURB & GUTTER
 - = EX. DEPRESSED CURB
 - = EX. CONTOURS
 - = EX. SANITARY MANHOLE
 - = EX. STORM CATCH BASIN
 - = EX. STORM FLARED END SECTION
 - = EX. STORM INLET
 - = EX. STORM MANHOLE
 - = EX. VALVE VAULT
 - = EX. FIRE HYDRANT
 - = EX. SPOT ELEVATION
 - = EX. CONIFEROUS TREE
W/TRUNK SIZE IN INCHES
 - = EX. DECIDUOUS TREE
W/TRUNK SIZE IN INCHES
 - = EX. BUSH

- ABBREVIATIONS**
- A ARC LENGTH
 - ASPH ASPHALT
 - AC AIR CONDITIONER UNIT
 - BC BACK OF CURB
 - BM BENCHMARK
 - BW BOTTOM OF WALL
 - BT BOTTOM OF
 - CH CHORD
 - CM CORRUGATED METAL PIPE
 - CN CLEANOUT
 - CONC CONCRETE
 - CPP CORRUGATED PLASTIC PIPE
 - DS DOWNSPOUT
 - E EAST
 - ELEC ELECTRIC
 - EM ELECTRIC METER
 - EP EDGE OF PAVEMENT
 - FF FINISHED FLOOR
 - GF GARAGE FLOOR
 - GM GAS METER
 - ICB IRRIGATION CONTROL BOX
 - IN INVERT
 - LSP LANDSCAPED AREA
 - MB MAILBOX
 - MTF MEASURED TOP OF FOUNDATION
 - N NORTH
 - PEDC CABLE PEDESTAL
 - PEDE ELECTRIC PEDESTAL
 - PEDT TELEPHONE PEDESTAL
 - PTF PROPOSED TOP OF FOUNDATION
 - PVC POLYVINYL CHLORIDE PIPE
 - PVR PAVERS
 - R RADIUS
 - RCP REINFORCED CONCRETE PIPE
 - S SOUTH
 - TF TOP OF FOUNDATION
 - TR TRANSFORMER
 - T TOP OF
 - TW TOP OF WALL
 - UTL UTILITY POLE
 - UTL UTILITY
 - VCP VITRIFIED CLAY PIPE
 - W WEST
 - WW WINDOW WELL
 - XXX.XX' MEASURED DIMENSION
 - (XXX.XX') RECORD DIMENSION

WATERWAY INFORMATION

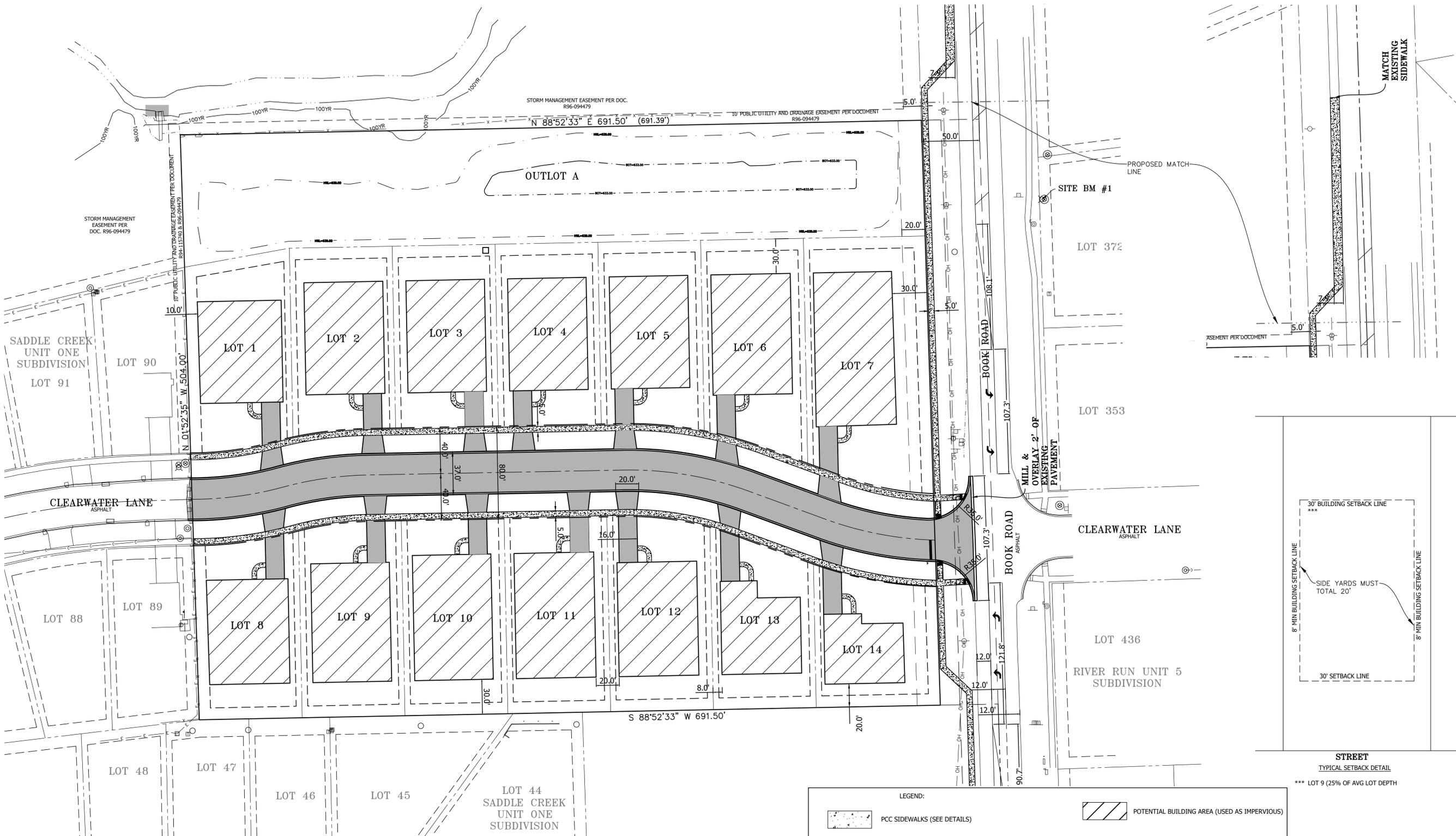
FLOOD	FREQ.	Q	OPENING SQ.FT.	NAT.	HEAD-FT.	HEADWATER EL.
DESIGN	50	639	8592	8592	630.51	631.23
BASE	100	764	1052	1052	635.05	637.08
OVERTOPPING						
MAX.CALC.	500	141	15624	15624	632.36	634.66

* Road does not overflow for any modified event.

SITE BENCHMARK #1:
 SOUTHWEST UPPER FLANGE BOLT ON FIRE HYDRANT
 LOCATED ON THE EAST SIDE OF BOOK ROAD
 APPROXIMATELY 55' SOUTH OF NORTH PROPERTY
 LINE EXTENDED.
 ELEV: 644.32 (NAVD 88)

SITE BENCHMARK #2:
 NORTHWEST UPPER FLANGE BOLT ON FIRE HYDRANT
 LOCATED ON THE EAST SIDE OF BOOK ROAD AT
 APPROXIMATELY SOUTH PROPERTY LINE OF 10920
 BOOK ROAD EXTENDED.
 ELEV: 645.43 (NAVD 88)

SNOW NOTE
 THE ABOVE DESCRIBED PROPERTY WAS MEASURED DURING A PERIOD OF SNOW/ICE COVER. EVERY EFFORT WAS MADE BY ENGINEERING RESOURCE ASSOCIATES TO ACCURATELY LOCATE ANY AND ALL IMPROVEMENTS, ADDITIONS, ETC., (SPECIFICALLY THOSE WHICH MAY ENCRoACH UPON PROPERTY LINES.) SOME ITEMS WHICH ARE CLEARLY WITHIN THE PROPERTY LINE BOUNDARIES MAY NOT HAVE BEEN OBSERVED DUE TO THE SNOW COVER.



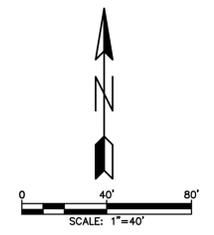
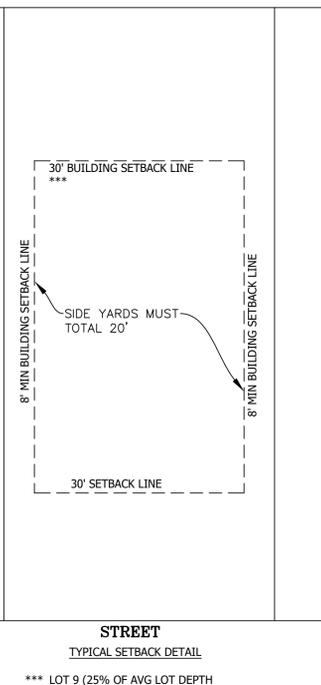
- GEOMETRY NOTES:**
- ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. THE CONTRACTOR WILL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - COORDINATE WITH ARCHITECTURAL PLANS, GRADING PLANS, UTILITY PLANS, & ALL CONSTRUCTION DETAILS.
 - ALL WORK AND OPERATIONS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
 - LAYOUT OF ALL NEW PAVING SHALL BE SMOOTH AND CONTINUOUS, DEFLECTION IN ALIGNMENT OR ABRUPT CHANGES WILL NOT BE ACCEPTED. ENGINEER SHALL REVIEW STAKED LAYOUT AND FRAMEWORK PRIOR TO PAVING OPERATIONS.
 - THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES ON WHICH THE WORK IS BEING DONE CLEAR OF RUBBISH AND DEBRIS.
 - THE CONTRACTOR WILL NOT INTERFERE WITH USE OF ADJACENT BUILDINGS, PARKING LOTS, STREETS, OR ALLEYS WITHOUT PRIOR COORDINATION WITH THE OWNER OR THE CITY OF NAPERVILLE.
 - MEET THE LINE AND GRADE OF NEW PAVEMENT AND/OR LAWN AND PLANTING AREAS WITH THE LINE AND GRADE OF THE EXISTING PAVEMENT AND/OR LAWN AND PLANTING AREAS.
 - SEE CONSTRUCTION DETAILS FOR ALL CIVIL DETAILS.

IMPERVIOUS DATA:

ROADWAY & CURB:	26,130 SQ.FT.
POTENTIAL BUILDING AREA:	92,433 SQ.FT.
ESTIMATED D-WAYS:	11,862 SQ.FT.
SIDEWALK (ROW):	10,600 SQ.FT.
SIDEWALK (LOT):	1,069 SQ.FT.
NET IMPERVIOUS AREA:	142,094 SQ.FT.
OVERALL PROPERTY AREA:	323,288 SQ.FT. (7.4 AC)
	***LESS DEDICATED BOOK ROW

LEGEND:

	PCC SIDEWALKS (SEE DETAILS)		POTENTIAL BUILDING AREA (USED AS IMPERVIOUS)
	HMA PAVEMENT (SEE DETAIL FOR ROAD & D-WAY)		PROPOSED CENTERLINE
	TYPE B-6.12 CONCRETE CURB & GUTTER		PROPOSED ROW
	DEPRESSED CURB & GUTTER		EXISTING ROW
	DETECTABLE WARNINGS		PROPOSED EASEMENT
	STOP BAR & STOP SIGN		PROPOSED LOT LINE



PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

ENGINEERING RESOURCE ASSOCIATES
 35701 WEST AVENUE, SUITE 150
 NAPERVILLE, IL 60563
 PHONE (630) 393-3900
 FAX (630) 393-3132
 www.enrconsultants.com

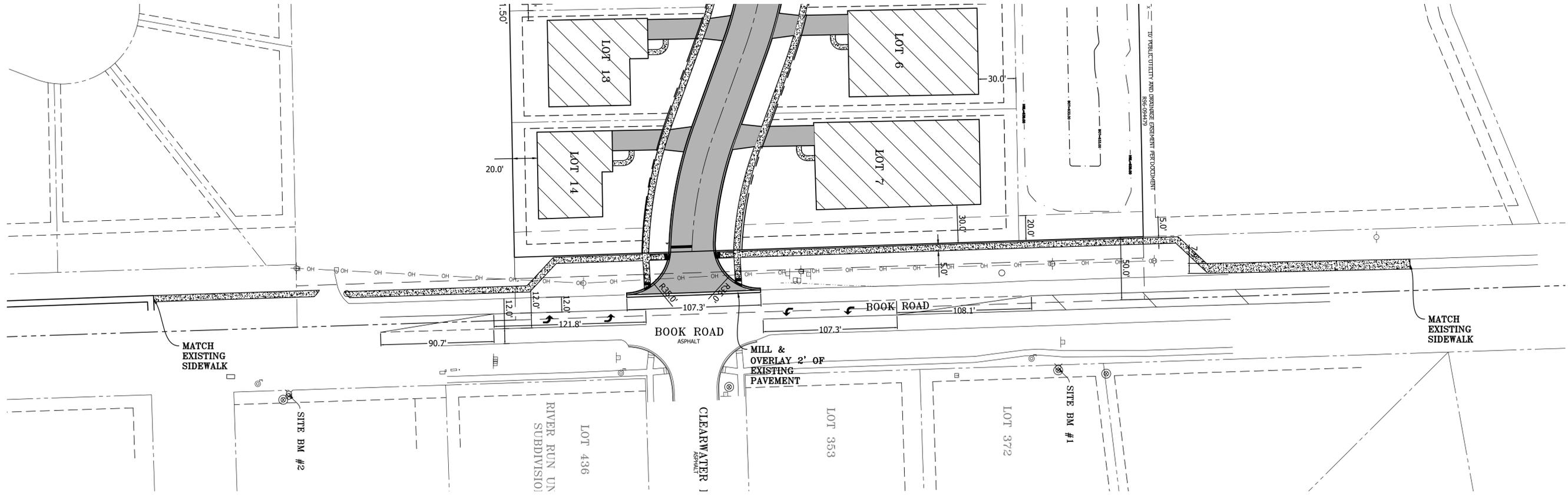
OVERSTREET BUILDERS, INC.
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RESERVES OF SADDLE CREEK
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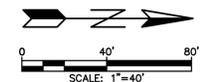
DATE	04-16-2025	ADDENDUM #1	06-11-2025
PROJECT #	W24300.00	ADDENDUM #2	07-11-2025
DESIGNED BY	MD	ADDENDUM #3	08-07-2025
DRAWN BY	MD	ADDENDUM #4	09-03-2025
CHECKED BY	MD	ADDENDUM #5	09-15-2025

DESCRIPTION: **IMV**
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C-5.0 SHEET



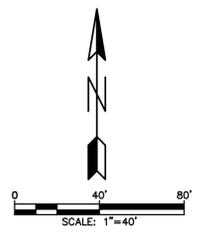
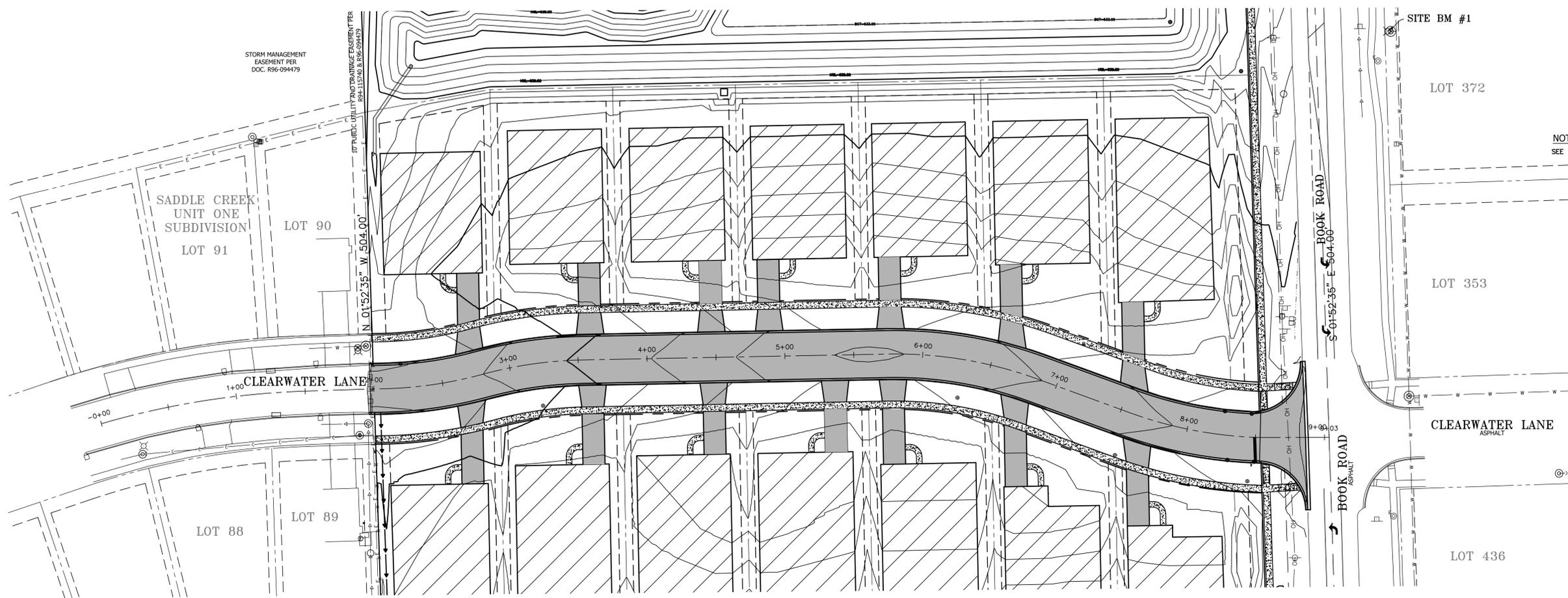
NOTES:
SEE SHEET C-5.0 FOR GEOMETRIC LEGEND AND NOTES



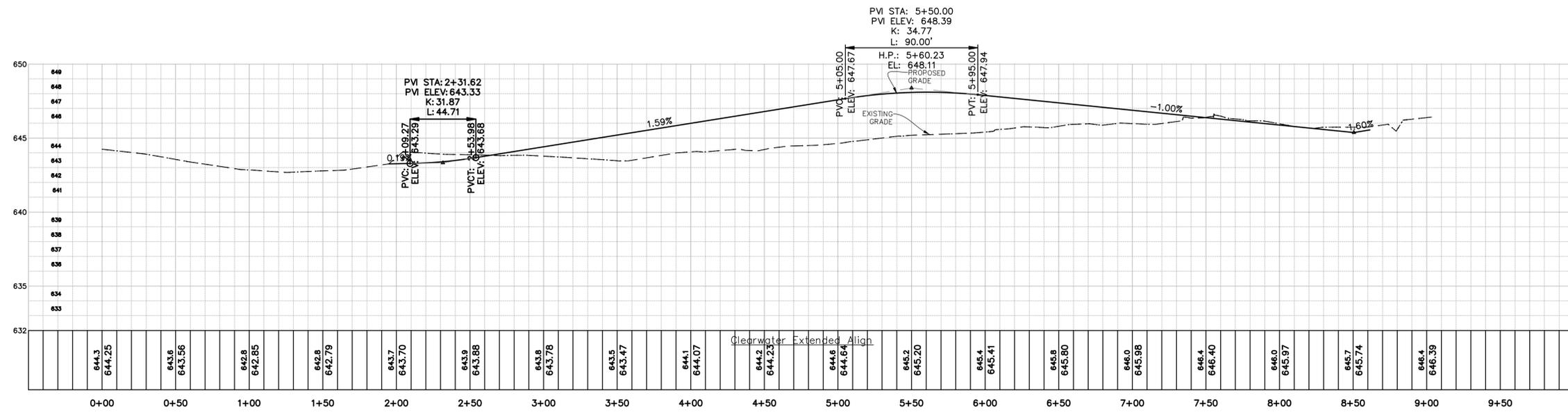
PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

ENGINEERING RESOURCE ASSOCIATES <small>35701 WEST AVENUE, SUITE 150 NAPERVILLE, ILLINOIS 60563 PHONE (630) 393-3300 FAX (630) 393-3132 www.enrconsultants.com</small>	
	
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RESERVES OF SADDLE CREEK <small>10826-10846 BOOK ROAD, NAPERVILLE, IL 60546</small>	
DATE : 04-16-2025 PROJECT # : W24300.00 DESIGNED BY : MD DRAWN BY : MD CHECKED BY : MAV	#1 ADDENDUM #1 : 09-11-2025 #2 ADDENDUM #2 : 07-11-2025 #3 ADDENDUM #3 : 08-07-2025 #4 ADDENDUM #4 : 09-03-2025 #5 ADDENDUM #5 : 09-15-2025 DESCRIPTION:
GEOMETRIC PLAN	
C-5.1 SHEET	

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NOTES:
SEE SHEET C-6.0 FOR UTILITY NOTES AND LEGEND



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RESERVES OF SADDLE CREEK
10826-10846 BOOK ROAD, NAPERVILLE, IL 60546

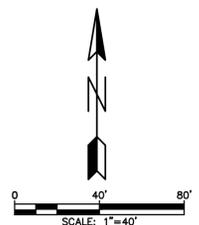
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07-11-2025	ADDENDUM #2
08-07-2025	ADDENDUM #3
09-03-2025	ADDENDUM #4
09-15-2025	ADDENDUM #5

DATE : 04-16-2025
PROJECT # : W24300.00
DESIGNED BY : MD
DRAWN BY : MD
CHECKED BY : MAV

DESCRIPTION: C:\PROJECTS\OverstreetBuilders\W24300.00_10846 S Book Rd, Uninc\W24300.00.dwg

C-5.2
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PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

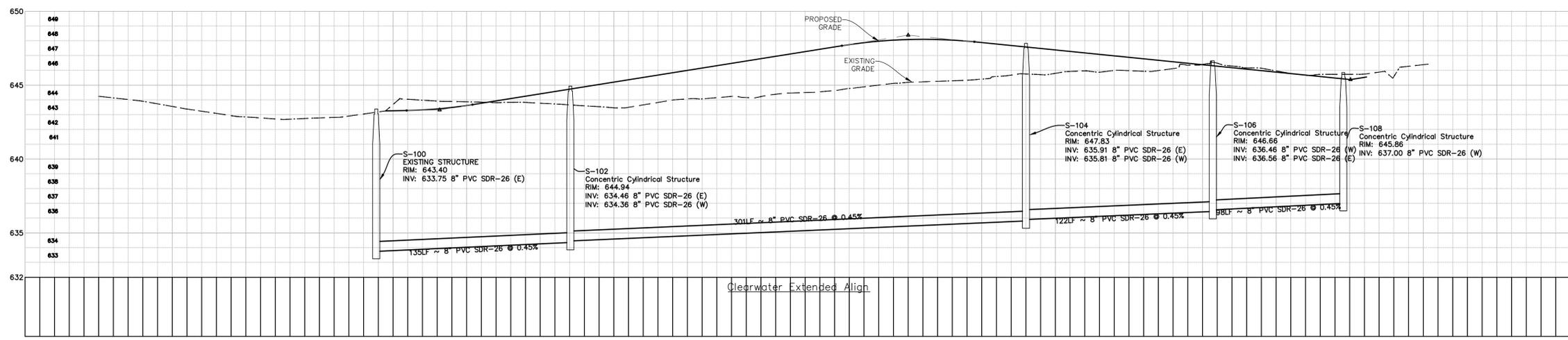


NOTES:
SEE SHEET C-6.0 FOR UTILITY NOTES AND LEGEND

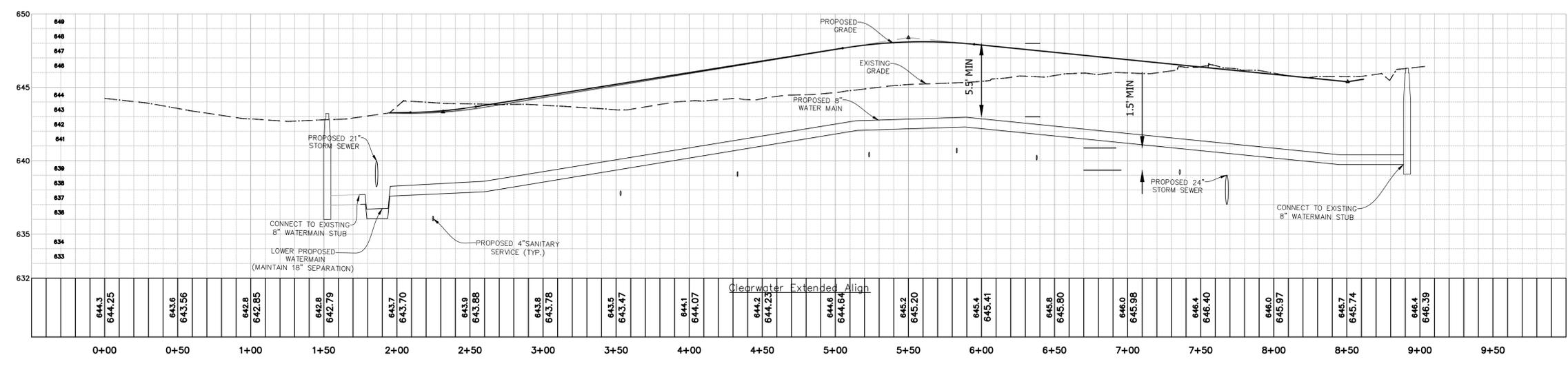
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08-07-2025	ADDENDUM #3
09-03-2025	ADDENDUM #4
09-15-2025	ADDENDUM #5

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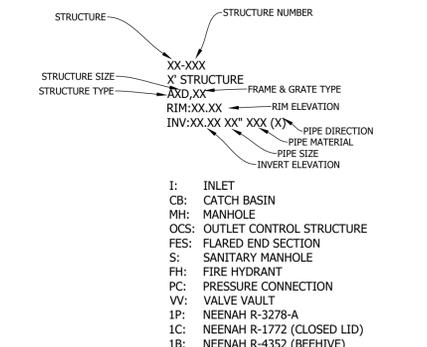
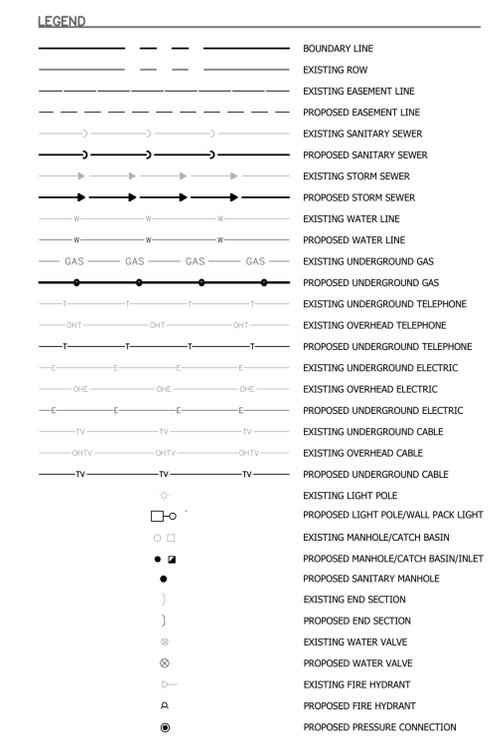
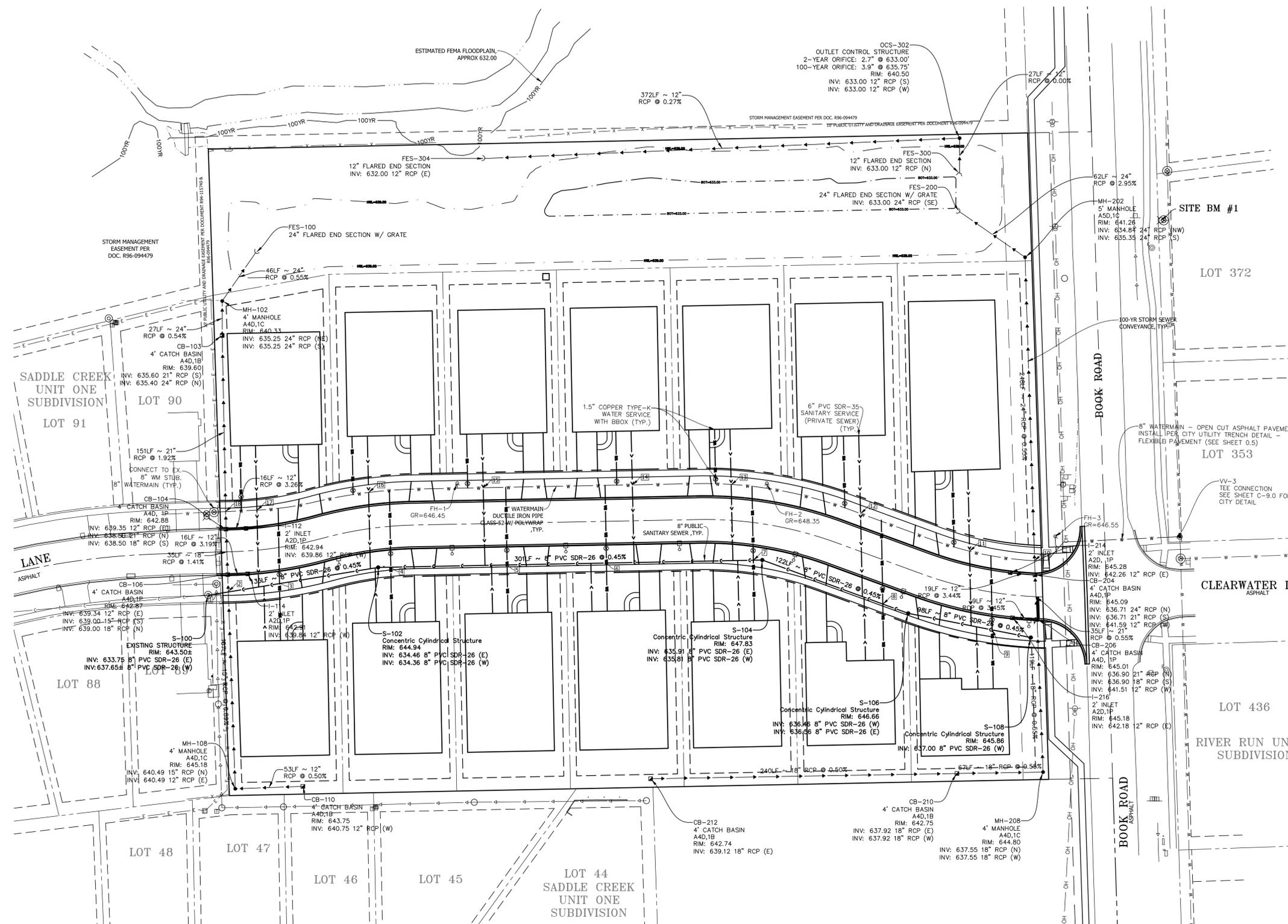
DATE	: 04-16-2025
PROJECT #	: W24300.00
DESIGNED BY	: MD
DRAWN BY	: MD
CHECKED BY	: INV



PROPOSED 8" SANITARY SEWER PROFILE
H: 1"=4'
V: 1"=40'



PROPOSED 8" WATERMAIN PROFILE
H: 1"=4'
V: 1"=40'

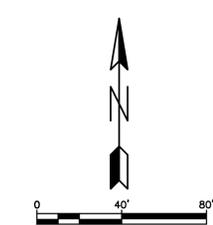


SEE SHEET C-2.0 FOR UTILITY NOTES

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH APPROPRIATE UTILITY COMPANIES TO ENSURE THAT THE REQUIRED VERTICAL AND HORIZONTAL CLEARANCES AT ALL LOCATIONS WHERE ANY UTILITY LINE CROSSES AN EXISTING OR PROPOSED GAS, TELEPHONE OR ELECTRIC LINE ARE MET.

UTILITY CROSSING TABLE						
CROSSING NUMBER	FINISH GRADE	TOP UTILITY	B/P ELEV.	BOTTOM UTILITY	T/P ELEV.	VERTICAL SEPARATION
1	643.60	12" STORM	636.30	8" SANITARY	634.45	1.65
2	643.78	15" STORM	639.05	8" SANITARY	634.50	4.55
3	643.88	1" WATER	638.80	8" SANITARY	634.78	4.02
4	645.39	1" WATER	640.30	8" SANITARY	635.18	5.12
5	646.93	1" WATER	641.80	8" SANITARY	635.59	6.21
6	648.20	1" WATER	643.07	8" SANITARY	635.95	7.12
7	648.18	1" WATER	643.05	8" SANITARY	636.46	6.59
8	647.12	1" WATER	641.99	8" SANITARY	637.03	4.96
9	646.22	1" WATER	641.09	8" SANITARY	637.53	3.56
10	646.13	8" WATER	640.46	24" STORM	638.90	1.56
11	646.50	8" WATER	640.83	4" SANITARY	639.33	1.50
12	647.43	8" WATER	641.76	4" SANITARY	640.26	1.50
13	648.39	8" WATER	642.72	4" SANITARY	641.22	1.50
14	648.41	8" WATER	642.74	4" SANITARY	641.24	1.50
15	646.55	8" WATER	640.88	4" SANITARY	639.38	1.50
16	645.39	8" WATER	639.46	4" SANITARY	637.96	1.50
17	643.86	8" WATER	637.93	4" SANITARY	636.43	1.50
18	643.60	21" STORM	638.35	8" WATER	636.65	1.50

LOWER PROPOSED WATERMAIN TO MAINTAIN 1.5' SEPARATION



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RESERVES OF SADDLE CREEK
 10826-10946 BOOK ROAD, NAPERVILLE, IL 60546

DATE : 04-16-2025
 PROJECT # : W24300.00
 DESIGNED BY : MD
 DRAWN BY : MD
 CHECKED BY : NAV

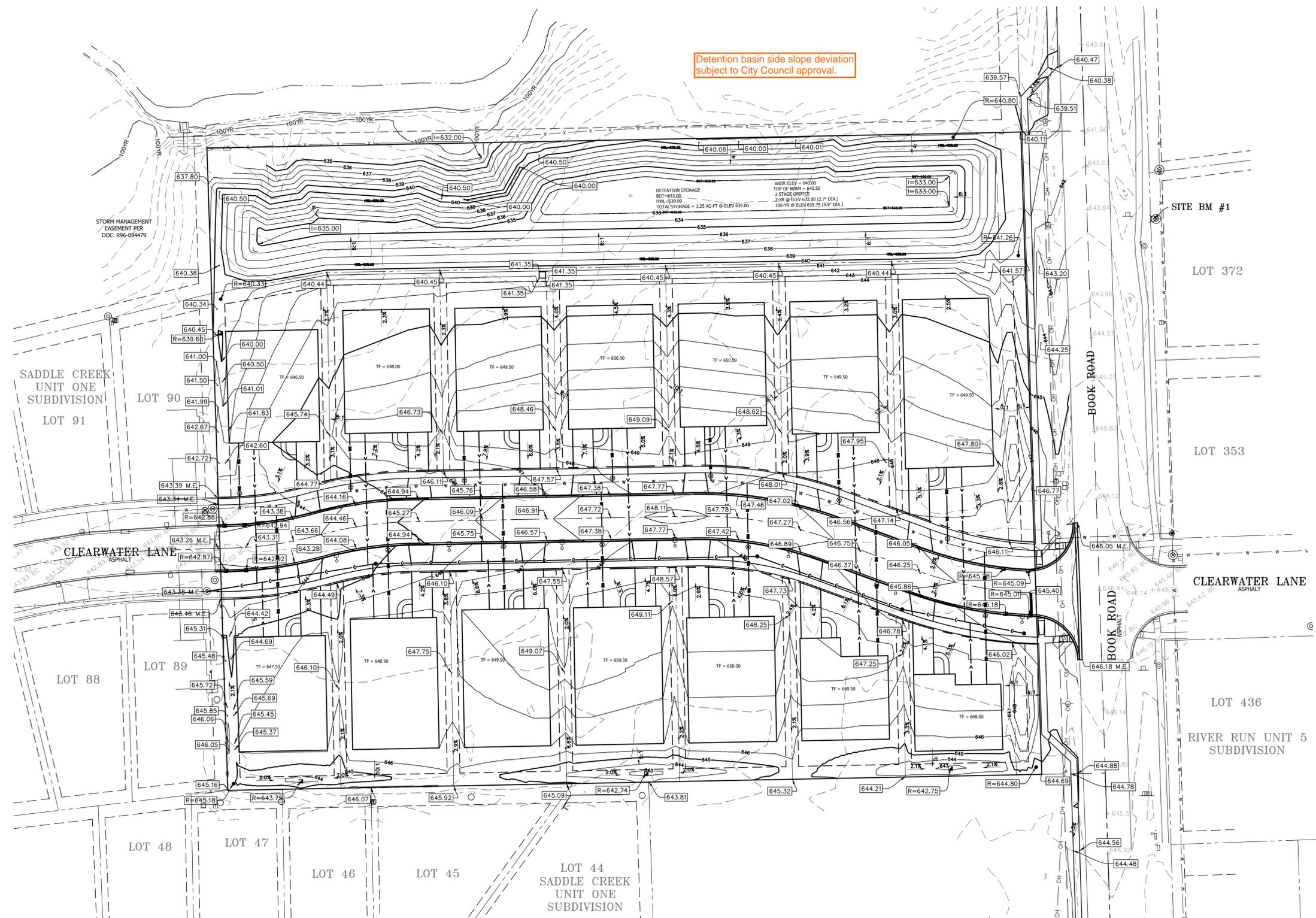
ADDENDUM #1 : 06-11-2025
 ADDENDUM #2 : 07-11-2025
 ADDENDUM #3 : 08-07-2025
 ADDENDUM #4 : 09-03-2025
 ADDENDUM #5 : 09-15-2025

DESCRIPTION :
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UTILITY PLAN

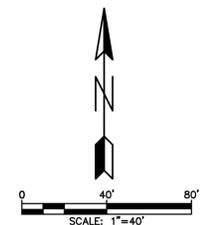
C-6.0
 SHEET

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186



- GRADING LEGEND**
- PROPERTY LINE
 - - - LOT LINE ADJACENT / R.O.W.
 - - - EASEMENT LINE
 - PROP. CONTOURS
 - ▣ PROP. STORM CATCH BASIN
 - ▤ PROP. STORM END SECTION
 - D.S.
 - ⊗ PROP. STORM BUBBLER
 - ✕ XXX.X
 - ✕ XXX.X M.E.
 - ✕ R=XXX.X
 - PROP. STORM DRAIN
 - PROP. STORM DRAIN

- NOTES:**
1. SEE SHEET C-2.0 FOR GRADING NOTES
 2. EX. GRADE CONTOURS ARE SHOWN AT 1 FOOT INTERVALS.
 3. PROP. GRADE CONTOURS ARE SHOWN AT 1 FOOT INTERVALS.
 4. ALL STORM SEWER AND UTILITY STRUCTURE RIMS SHALL BE PUSH WITH PAVEMENT OR FINISH GRADE.



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RESERVES OF SADDLE CREEK

10826-10846 BOOK ROAD, NAPERVILLE, IL 60546

DATE	04-16-2025	ADDENDUM #1	06-11-2025	DESCRIPTION:
PROJECT #	W24300.00	ADDENDUM #2	07-11-2025	
DESIGNED BY	MD	ADDENDUM #3	08-07-2025	
DRAWN BY	MD	ADDENDUM #4	09-03-2025	
CHECKED BY	NAV	ADDENDUM #5	09-15-2025	

GRADING PLAN

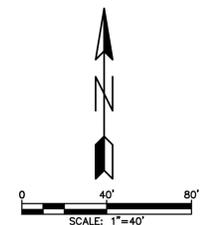
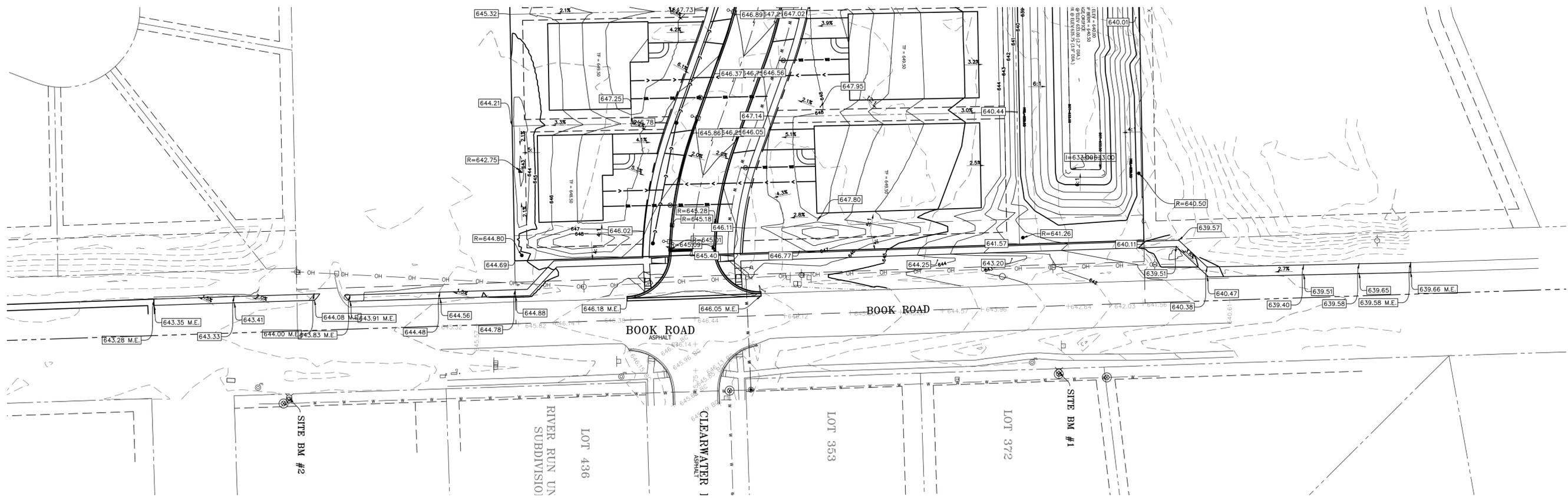
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PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

NOTES:
SEE SHEET C-7.0 FOR GRADING LEGEND AND NOTES



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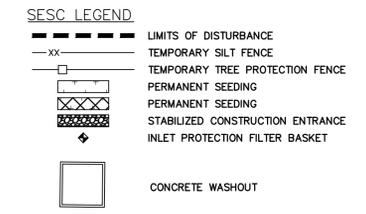
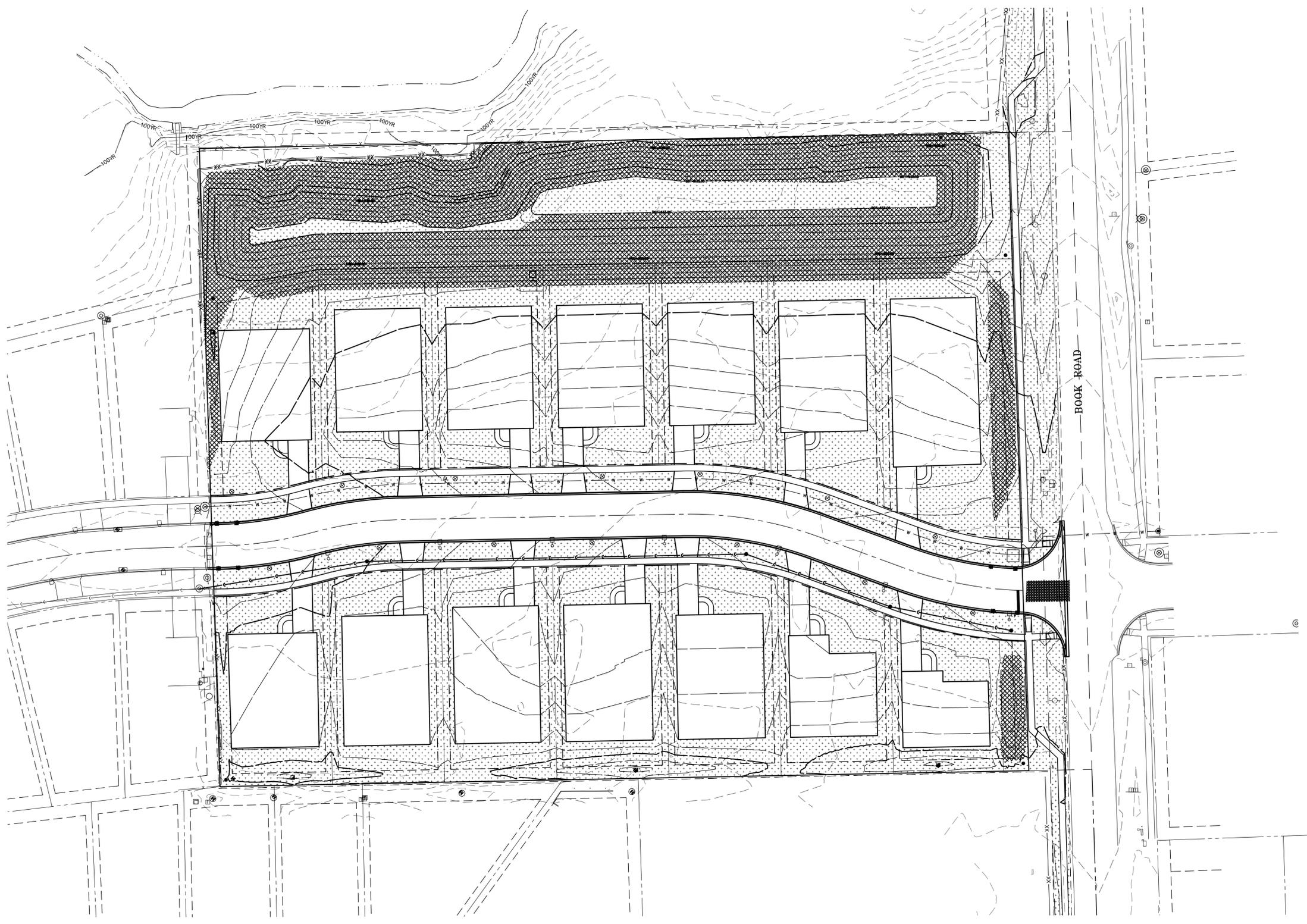
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09-03-2025	ADDENDUM #4
09-15-2025	ADDENDUM #5

DATE	: 04-16-2025
PROJECT #	: W24300.00
DESIGNED BY	: MD
DRAWN BY	: MD
CHECKED BY	: MAV

GRADING PLAN

C-7.2
SHEET

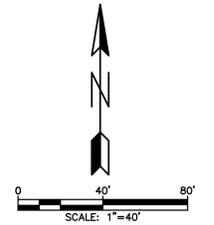
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- CONSTRUCTION SEQUENCE SCHEDULE:**
1. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL (SESC) MEASURES
 - 1.1. INSTALL STABILIZED CONSTRUCTION ENTRANCE
 - 1.2. INSTALL SILT FENCE
 - 1.3. INSTALL INLET FILTER PROTECTION AT EXISTING STORM STRUCTURES
 2. TREE REMOVAL AS SHOWN ON TREE PRESERVATION PLAN
 3. REMOVE EXISTING BUILDING AND STRUCTURES.
 4. CONTAIN STOCKPILE LOCATIONS WITHIN THE SITE AND INSTALL EROSION CONTROL MEASURES AS NECESSARY.
 5. START CONSTRUCTION OF BUILDING PAD AND UTILITIES.
 6. INSTALL INLET PROTECTION AS EACH STORM STRUCTURE IS INSTALLED.
 7. INITIATE TEMPORARY SEEDING WITHIN ONE BUSINESS DAY OF INACTIVITY, THROUGHOUT CONSTRUCTION, DENUDE AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
 8. INSTALL PAVEMENT.
 9. PERMANENTLY STABILIZE ALL AREAS.
 10. REMOVE ALL TEMPORARY SESC MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION.

*SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY WEEK AND WITHIN 24 HOURS OF THE END OF A STORM OR BY THE END OF THE FOLLOWING BUSINESS DAY AFTER EVERY 0.5 IN. OR GREATER RAINFALL EVENT.

- NOTES:**
1. SEE SHEET C-7.1 FOR EROSION CONTROL DETAILS.
 2. THE LOCATIONS OF CONSTRUCTION STAGING AREA AND TOPSOIL STOCKPILE AREA ARE SUBJECT TO CHANGE PER CONTRACTOR. STAGING AREA SHALL BE ENCLOSED WITH TEMPORARY FENCE. CONSTRUCTION TRAILERS, TEMPORARY PARKING, AND ITEMS SUCH AS SOLID WASTE RECEPTACLES, SANITARY FACILITIES, CONCRETE WASTE, FUEL TANKS, CONSTRUCTION MATERIALS, SUPPLIES, AND STOCKPILES SHALL BE PLACED IN THIS AREA IF NEEDED. TOPSOIL STOCKPILE AREA SHALL BE ENCLOSED WITH SILT FENCE.
 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN VEHICLES PRIOR TO THEM EXITING THE SITE. ANY SEDIMENT OR DUST THAT HAS ACCUMULATED AT THE CONSTRUCTION EXIT, OR ON ANY OTHER EXISTING STABILIZED SURFACE WITHIN THE LIMITS OF DISTURBANCE, SHALL BE CLEANED IMMEDIATELY. CONSIDERATION SHALL BE GIVEN TO A WHEEL WASH SYSTEM WHERE APPROPRIATE. ANY WATER USED FOR CLEANING VEHICLES SHALL BE COLLECTED PRIOR TO LEAVING THE LIMITS OF DISTURBANCE OR BEFORE ENTERING AN EXISTING STORM DRAINAGE SYSTEM. SEE SHEET C-7.1 FOR CONSTRUCTION EXIT DETAIL.
 4. ALL SOIL DISTURBANCE SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE.



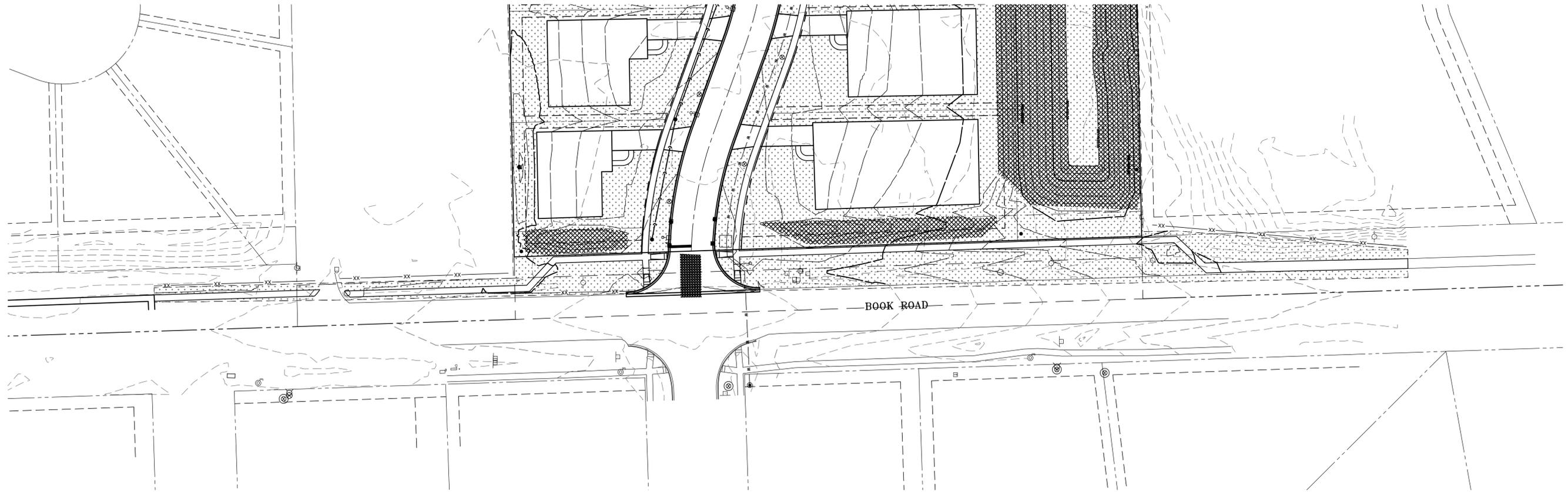
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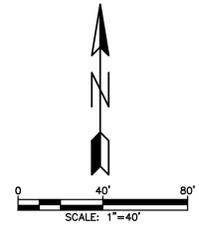
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08-07-2025	ADDENDUM #3
09-02-2025	ADDENDUM #4
09-15-2025	ADDENDUM #5

DATE	: 04-16-2025
PROJECT #	: W24300.00
DESIGNED BY	: MD
DRAWN BY	: MD
CHECKED BY	: MAV

SOIL EROSION & SEDIMENT CONTROL PLAN



NOTES:
SEE SHEET C-8.0 FOR SESC LEGEND AND NOTES



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SOIL EROSION & SEDIMENT CONTROL PLAN

C-8.1
SHEET

RESERVES OF
SADDLE CREEK
10826-10846 BOOK ROAD, NAPERVILLE, IL 60564

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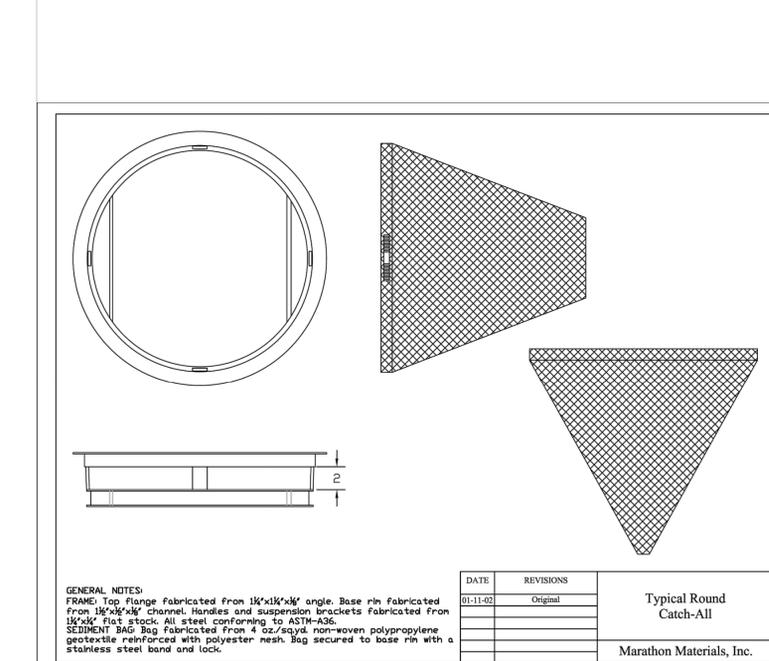
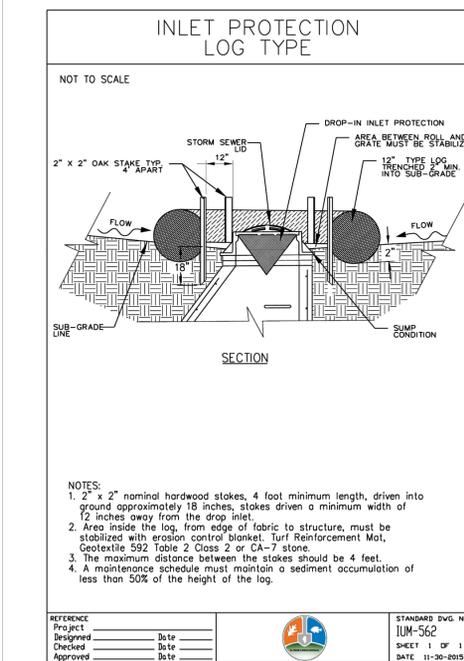
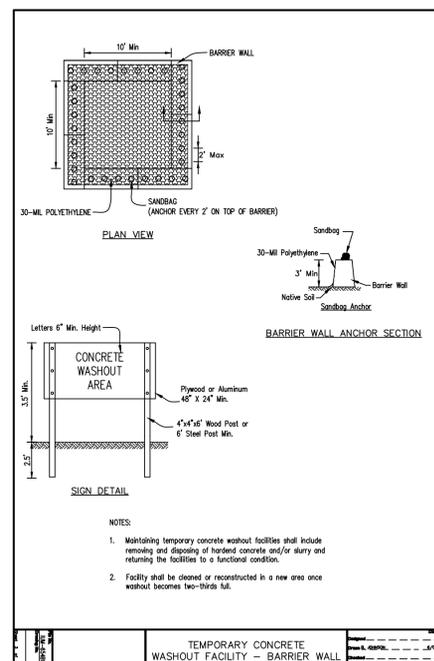
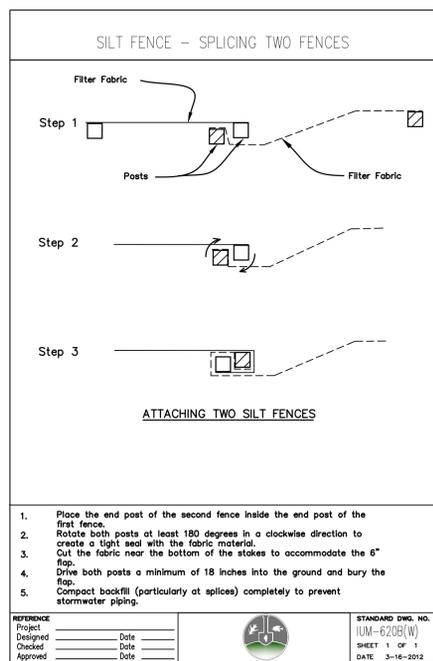
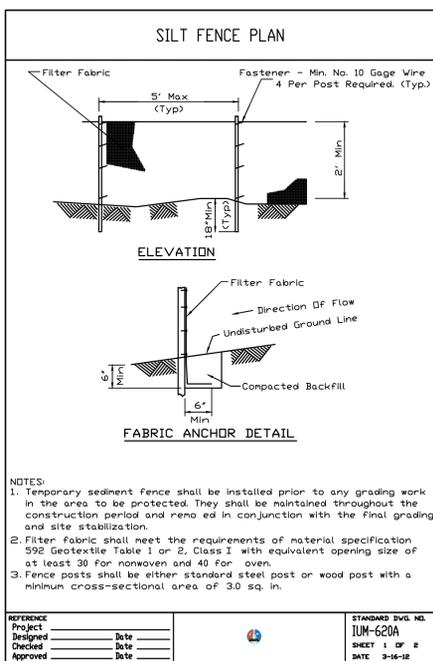
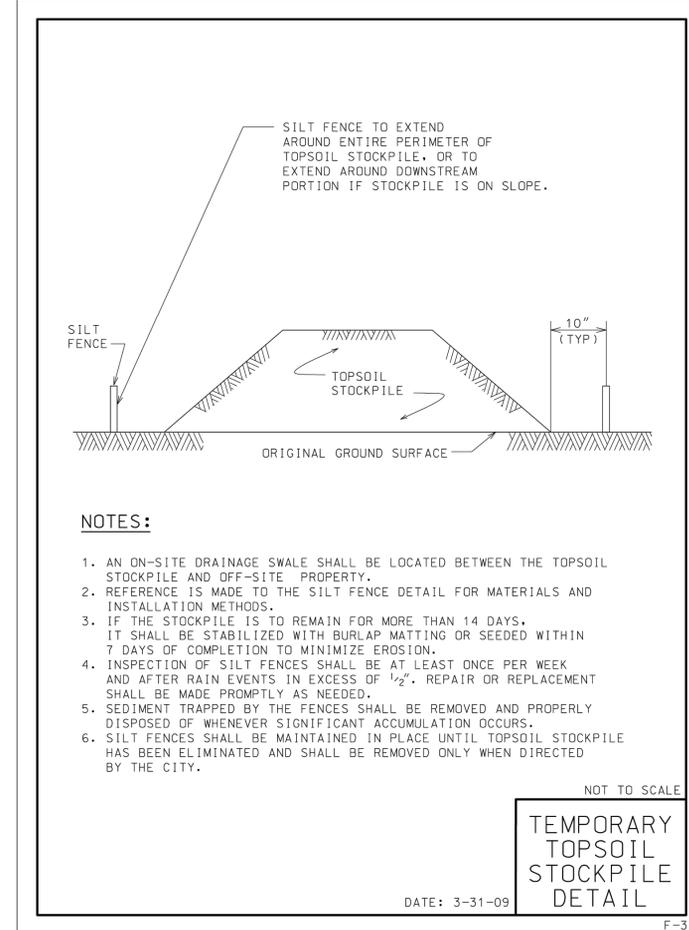
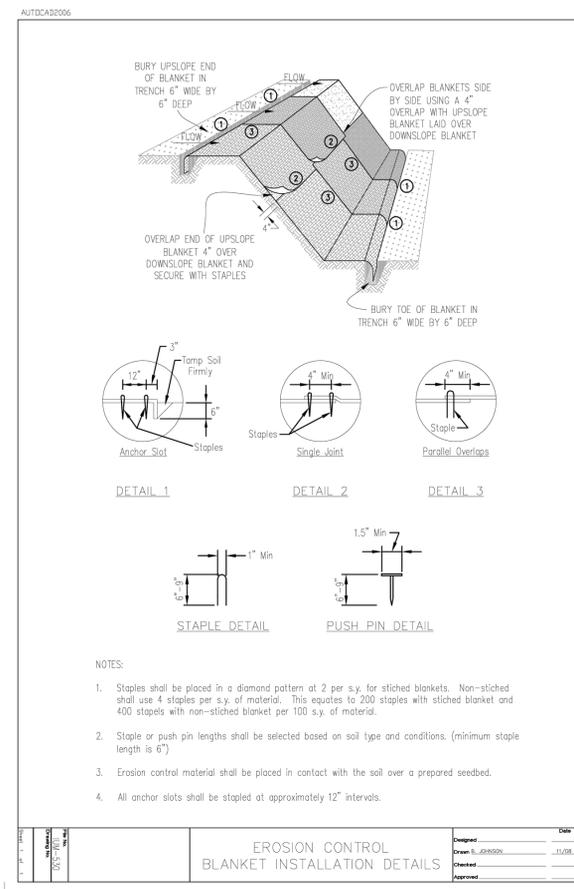
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DATE	06-11-2025	ADDENDUM #1
PROJECT #	07-11-2025	ADDENDUM #2
DESIGNED BY	08-07-2025	ADDENDUM #3
DRAWN BY	09-15-2025	ADDENDUM #4
CHECKED BY		ADDENDUM #5

DATE	04-16-2025	DESCRIPTION
PROJECT #	W24300.00	
DESIGNED BY	MD	
DRAWN BY	MD	
CHECKED BY	NAV	

SOIL EROSION & SEDIMENT CONTROL PLAN



STORMWATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITION.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS. SECTION 280. TEMPORARY EROSION CONTROL, OF THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENTS THIS PLAN.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY

- THE PROJECT CONSISTS OF AN EXTENSION OF CLEARWATER LANE TO BOOK ROAD WITH 14 PROPOSED SINGLE-FAMILY LOTS WITH IMPROVED ONSITE PARKING, STORM SEWER SYSTEM, AND LANDSCAPED AREAS.
- THE PROPERTY IS LOCATED NORTH OF HASSERT BLVD AND WEST OF BOOK ROAD, WITHIN THE CITY OF NAPERVILLE.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTION OF THE CONSTRUCTION SITE:

- EROSION CONTROL SILT FENCING SHALL BE IN PLACE PRIOR TO EARTHWORK ACTIVITIES.
- SITE SHALL BE ROUGH GRADED.
- UNDERGROUND UTILITY NETWORK DIRECTING FLOW TO DETENTION FACILITY SHALL BE INSTALLED.
- SITE SHALL BE FINE-GRADED, WITH ALL PROPOSED PAVING AREAS GRADED TO ROUGHLY 1-FOOT BELOW FINAL ELEVATION ON PLANS.
- CONCRETE WORK AND BITUMINOUS PARKING LOT SHALL BE CONSTRUCTED.
- DISTURBED AREAS SHALL BE TOPSOILED & SEEDED.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 8.00 ACRES BY WHICH 7.82 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS, WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

- INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND SOIL BORINGS THAT WERE UTILITIES FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
- PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

THE SITE SHALL DRAIN INTO THE PROPOSED STORMWATER DETENTION PONDS BY MEANS OF AN EXISTING STORM SEWER SYSTEM.

CONTROLS, EROSION CONTROLS AND SEDIMENT CONTROL:

- THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF NATURE VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
 - AREAS OF EXISTING VEGETATION, WOOD AND GRASSLANDS, OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
 - DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.
 - AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.
 - BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN (7) DAYS.
 - IMMEDIATELY AFTER TREE REMOVAL IS COMPLETED, AREAS WHICH ARE HIGHLY ERODIBLE AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN (7) DAYS.
- ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVER SEEDING CAN BE COMPLETED.
- THE SOIL AND WATER CONSERVATION DISTRICT IS RESPONSIBLE FOR CONDUCTING SITE VISITS AND VERIFYING THAT THE PRACTICES ARE WORKING PROPERLY AND DETERMINE IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL. IF ADDITIONAL PRACTICES ARE DEEMED NECESSARY BY THE SWCD THE CONTRACTOR WILL IMPLEMENT THE PRACTICE IN A TIMELY MANNER.

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

ENGINEER: NICHOLAS A. VARCHETTO, PE

DATE

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

- DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING, PARKING OF VEHICLES OF CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS OR OTHER CONSTRUCTION RELATED ACTIVITIES.
 - WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
 - AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER
 - PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
 - TEMPORARILY SEED ERODIBLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODIBLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
 - PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.
 - CONTINUE BUILDING UP THE EMBANKMENT TO THE PROPOSED GRADE WHILE, AT THE SAME TIME, PLACING PERMANENT EROSION CONTROL FINAL SHAPING TO THE SLOPES.
 - EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN (7) DAYS.
 - CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
 - THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT WEEKLY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2-INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BIWEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
 - SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EARTH EXCAVATION FOR EROSION CONTROL.
 - THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER, AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

- TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SODDED AND ESTABLISHED.
- ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.

MISCELLANEOUS:

- TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRES, IF DIRECTED.
- SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS, AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION.
- ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

SOIL EROSION CONTROL:

- SOIL EROSION CONTROL MUST CONFORM TO THE CITY ORDINANCE.

A. SPECIFICATIONS:

- A CONSTRUCTION ENTRANCE TO THE SITE SHALL BE INSTALLED AND STABILIZED PRIOR TO ANY WORK ON THE SITE: THE CONSTRUCTION ENTRANCE SHALL CONSIST OF 12" OF CRUSHED CONCRETE, 50 FEET IN LENGTH AND 24 FEET WIDE, AS SHOWN ON PLANS.
- ALL STOCK PILES ON THE SITE WHICH WILL NOT BE REDISTRIBUTED FOR A WEEK OR LONGER WILL BE SEEDED WITHIN SEVEN DAYS OF THE FORMATION OF THE STOCKPILE.
- SEEDING IN DISTRIBUTED AREAS OUTSIDE OF THE RIGHT-OF-WAYS WILL BE DONE WITH PERENNIAL RYE GRASS, 1/2 LB. PER 1,000 SF, IF IT IS LATER IN THE FALL AND A MORE RAPID GERMINATION IS REQUIRED, 1 LB OF OATS PER 1,000 S.F. CAN BE ADDED TO THE RYE GRASS.
- THE SEEDING AND MULCH WILL BE MAINTAINED AND REPAIRED WHEN NECESSARY UNTIL THE PROJECT IS COMPLETED.
- AGGREGATE BASE SHALL BE INSTALLED AS SOON AS POSSIBLE IN THE CONSTRUCTION SEQUENCE FOR ROADS TO PROVIDE REQUIRED STABILIZATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL STRUCTURES.
- CONTRACTOR SHALL INSPECT EROSION CONTROL STRUCTURES WEEKLY OR AFTER ANY MAJOR STORMS OR AS DIRECTED BY THE CITY.
- ALL DESIGN AND CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AS CONTAINED IN THE IEPA/WPC/87-012 OR CURRENT EDITION AND THE ILLINOIS PROCEDURE AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL.
- DUST CONTROL AND CLEANING OF ROADWAYS AS REQUESTED BY THE CITY SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.

B. INSTALLATION

- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- NOTIFY PUBLIC WORKS DEPARTMENT AND THE CITY ENGINEERING DEPARTMENT 24 HOURS PRIOR TO INITIATING CONSTRUCTION.

DRAINAGE STATEMENT

WE HEREBY STATE THAT TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF SURFACE WATERS OF THIS PLAT WILL NOT BE CHANGED BY THE CONSTRUCTION OF THE IMPROVEMENTS OF THIS SUBDIVISION OR ANY PART THEREOF OR THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE SUBDIVIDER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE SUBDIVISION.

DATE: _____
NAME OF ENGINEER
ILLINOIS REGISTERED PROF. ENG. NO. _____

OWNER AND DEVELOPER:
NAME OF DEVELOPER/OWNER

TITLE: _____

CORPORATION: _____

SOIL PROTECTION CHART

STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING			A	+		*	*					
DORMANT SEEDING	B	+										B
TEMPORARY SEEDING			C	+		*	D*					
SODDING			E**	+								
MULCHING	F	+										

- | | | | |
|--|--|------------------------|------------|
| A. KENTUCKY BLUEGRASS MIXED WITH PERENNIAL RYEGRASS | 90 LBS/AC
30 LBS/AC | C. SPRING OATS | 100 LBS/AC |
| B. KENTUCKY BLUEGRASS MIXED WITH PERENNIAL RYE GRASS | 135 LBS/AC
45 LBS/AC + 2 TONS STRAW | D. WHEAT OR CEREAL RYE | 150 LBS/AC |
| | | E. SOD | |
| | | F. STRAW MULCH | 2 TONS/AC |

* IRRIGATION NEEDED DURING JUNE AND JULY

** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

OWNER'S CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

OWNER

SIGNATURE _____ TITLE _____ DATE _____

COMPANY _____

CONTRACTOR'S CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR 10) THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

GENERAL CONTRACTOR

SIGNATURE _____ TITLE _____ DATE _____

COMPANY _____



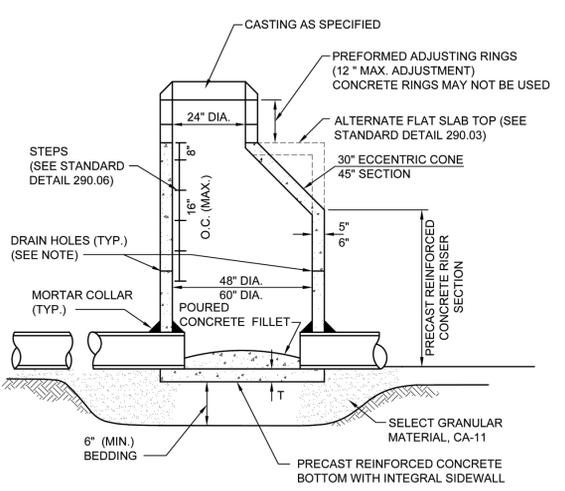
06-11-2025	ADDENDUM #1
07-11-2025	ADDENDUM #2
08-07-2025	ADDENDUM #3
09-02-2025	ADDENDUM #4
09-15-2025	ADDENDUM #5

DESCRIPTION:

DATE	: 04-16-2025
PROJECT #	: W24200.00
DESIGNED BY	: MD
DRAWN BY	: MD
CHECKED BY	: NAV

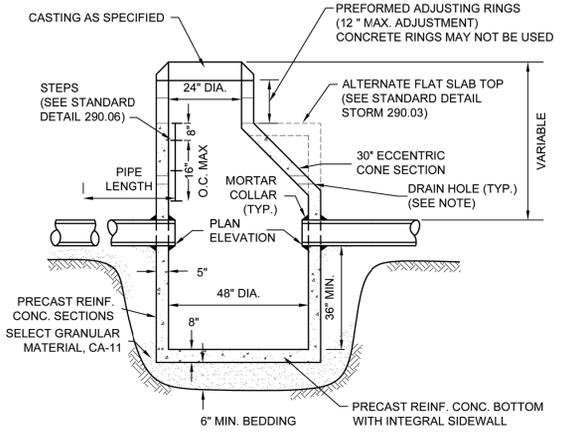
SOIL EROSION & SEDIMENT CONTROL PLAN

WHEN MANHOLE DEPTH IS 12 FT OR LESS T = 8 INCHES
WHEN MANHOLE DEPTH IS OVER 12 FT. T = 10 INCHES



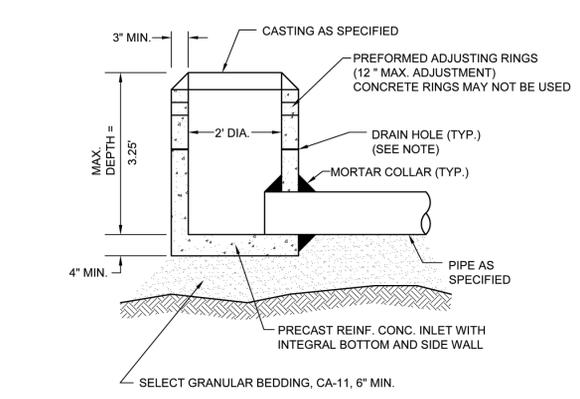
NOTE:
A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

City of Naperville STANDARD DETAIL **STORM MANHOLE-TYPE A** STORM 1 **290.01**
REVISED: 08/01/2018 SHEET 1 OF 1



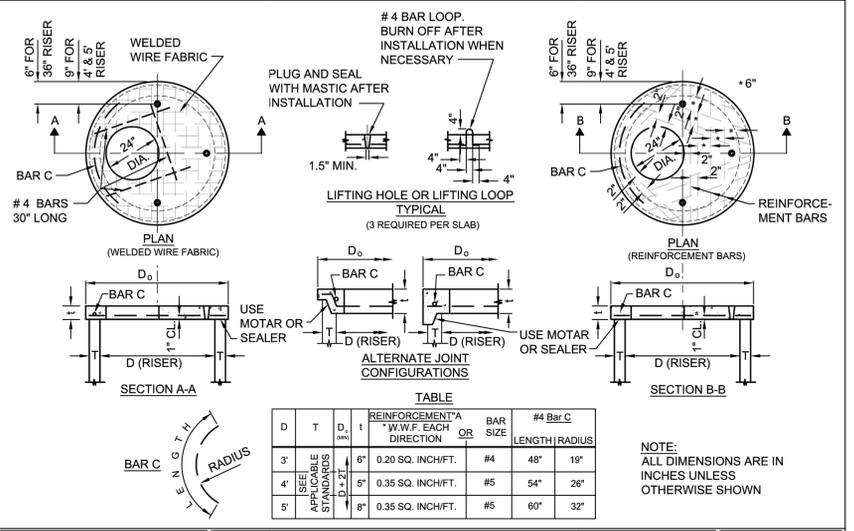
NOTE:
A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

City of Naperville STANDARD DETAIL **CATCH BASIN - TYPE A** STORM 2 **290.02**
REVISED: 08/01/2018 SHEET 1 OF 1



NOTE:
IN PAVED AREAS A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

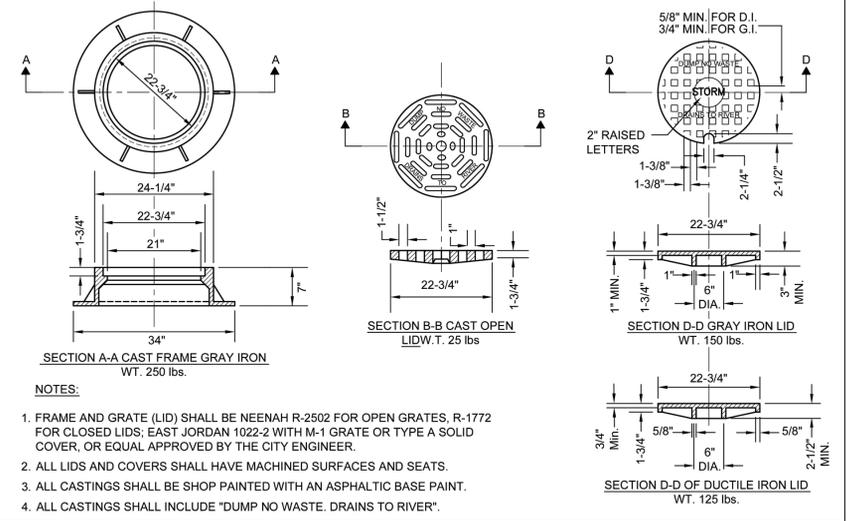
City of Naperville STANDARD DETAIL **INLET - TYPE A** STORM 5 **290.05**
REVISED: 08/01/2018 SHEET 1 OF 1



D	T	D ₂	REINFORCEMENT ^A	BAR SIZE	#4 Bar C
INCHES	INCHES	INCHES	"W.W.F. EACH DIRECTION OR	OR	LENGTH RADIUS
3'	3'	6"	0.20 SQ. INCH/FT.	#4	48" 19"
4'	4'	5"	0.35 SQ. INCH/FT.	#5	54" 26"
5'	5'	8"	0.35 SQ. INCH/FT.	#5	60" 32"

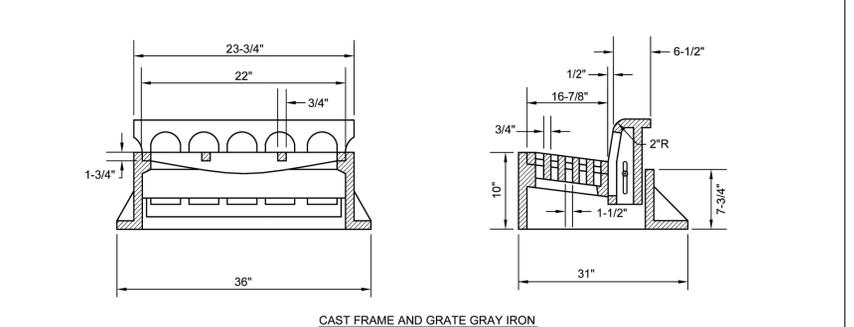
NOTE:
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN

City of Naperville STANDARD DETAIL **FLAT SLAB TOP PRECAST REINFORCED CONCRETE** STORM 3 **290.03**
REVISED: 01/01/2013 SHEET 1 OF 1



- NOTES:**
- FRAME AND GRATE (LID) SHALL BE NEENAH R-2502 FOR OPEN GRATES, R-1772 FOR CLOSED LIDS, EAST JORDAN 1022-2 WITH M-1 GRATE OR TYPE A SOLID COVER, OR EQUAL APPROVED BY THE CITY ENGINEER.
 - ALL LIDS AND COVERS SHALL HAVE MACHINED SURFACES AND SEATS.
 - ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
 - ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER".

City of Naperville STANDARD DETAIL **FRAME & LID OR GRATE** STORM 10 **290.10**
REVISED: 05/15/2015 SHEET 1 OF 1



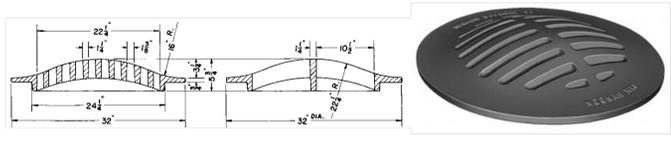
- NOTES:**
- FRAME AND GRATE SHALL BE NEENAH R-3278-A, EAST JORDAN IRON 7220, OR EQUAL APPROVED BY THE CITY ENGINEER.
 - ALL CASTING SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
 - SEE STANDARD DETAIL 590.20 FOR CORRESPONDING CURB.
 - ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER".

City of Naperville STANDARD DETAIL **FRAME & GRATE FOR B-6.12 CURB & GUTTER** STORM 11 **290.11**
REVISED: 05/15/2015 SHEET 1 OF 1

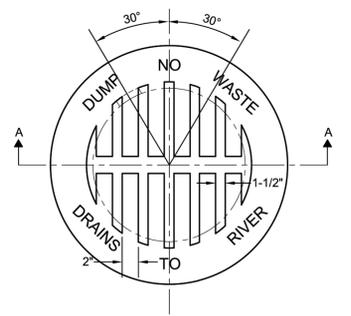
Note: When specifying/ordering grates, refer to "Choosing the Proper Inlet Grate" on pages 125-126.
For a complete listing of FREE OPEN AREAS and WEIR PERIMETERS of all NEENAH grates, refer to pages 327-332.

R-4352 Beehive Grate

Heavy Duty



CATALOG NUMBER	GRATE TYPE	SO. FT. OPEN	WEIR PERIMETER LINEAL FEET
R-4352	Beehive	1.3	5.8



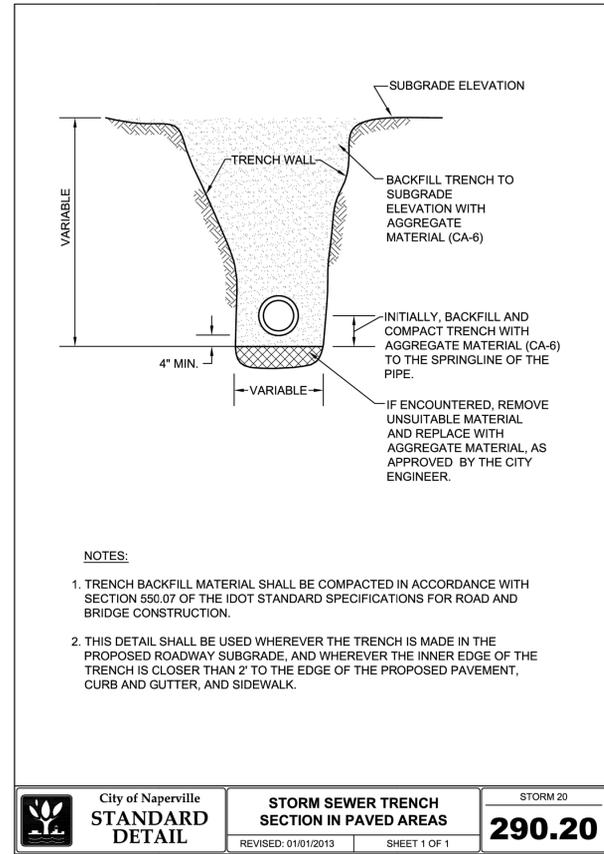
- NOTES:**
- BEEHIVE GRATE SHALL BE NEENAH R4340B, EAST JORDAN 6527, OR EQUAL APPROVED BY THE CITY ENGINEER.
 - ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
 - ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER".

City of Naperville STANDARD DETAIL **BEEHIVE GRATE** STORM 14 **290.14**
REVISED: 05/15/2015 SHEET 1 OF 1

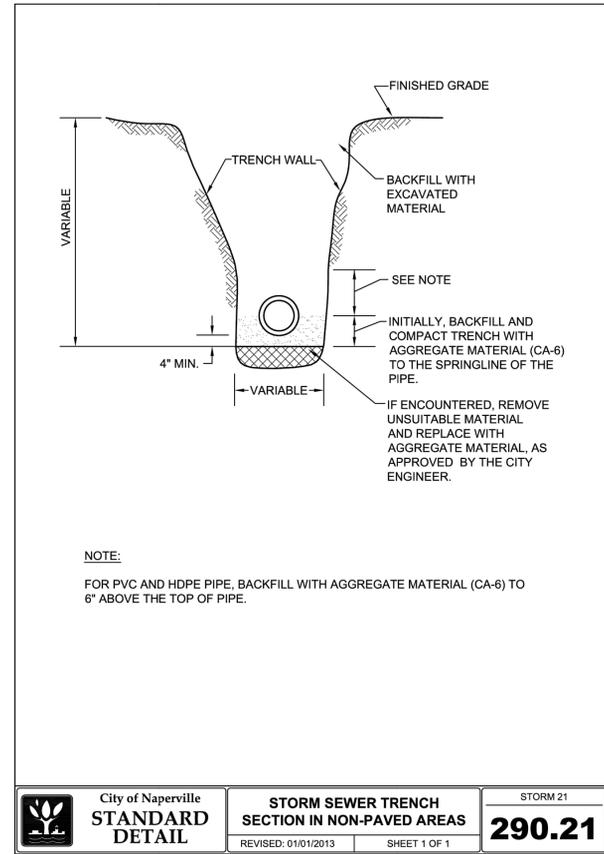


DATE	PROJECT #	DESIGNED BY	DRAWN BY	CHECKED BY	DESCRIPTION
06-11-2025	W24300.00	MD	MD	NAV	ADDENDUM #1
07-11-2025					ADDENDUM #2
08-07-2025					ADDENDUM #3
09-03-2025					ADDENDUM #4
09-15-2025					ADDENDUM #5

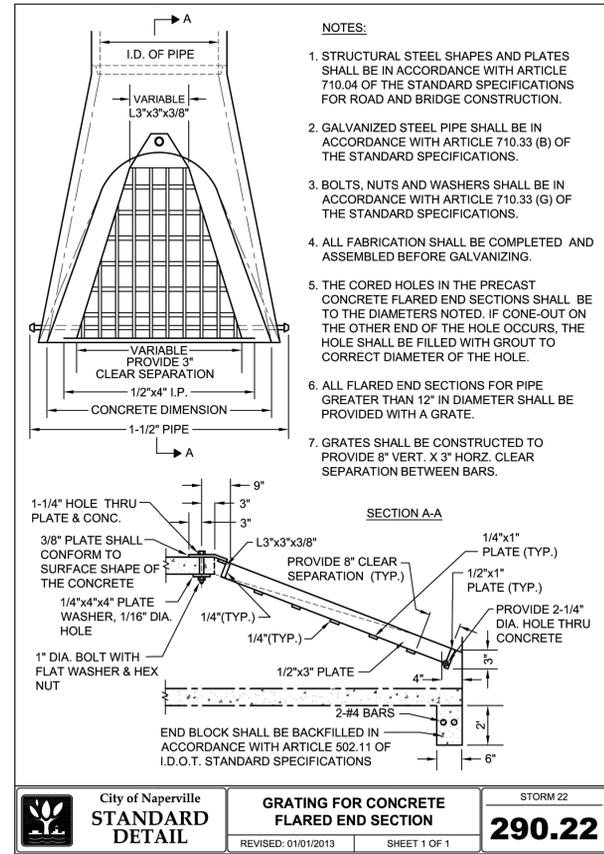
DATE	PROJECT #	DESIGNED BY	DRAWN BY	CHECKED BY	DESCRIPTION
04-16-2025	W24300.00	MD	MD	NAV	CONSTRUCTION DETAILS



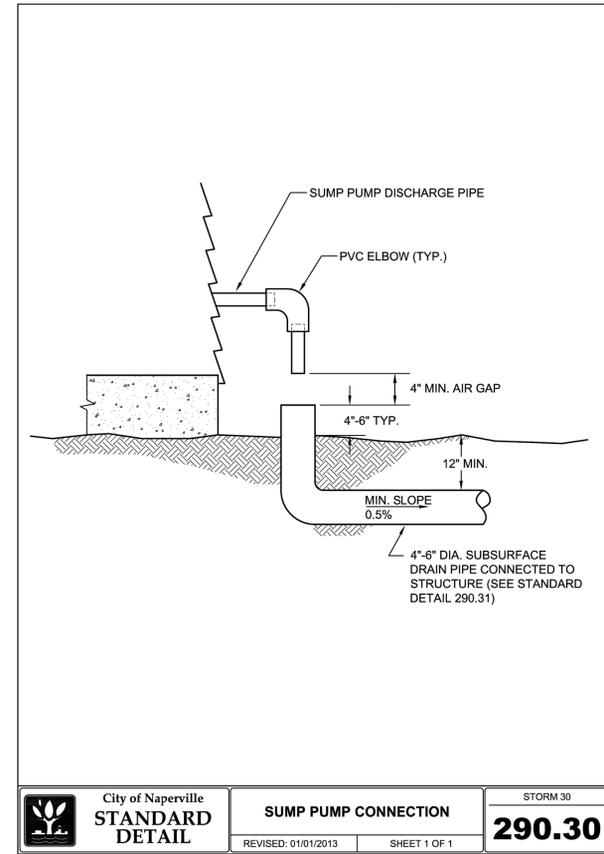
City of Naperville
STANDARD DETAIL
STORM 20
290.20
REVISED: 01/01/2013 SHEET 1 OF 1



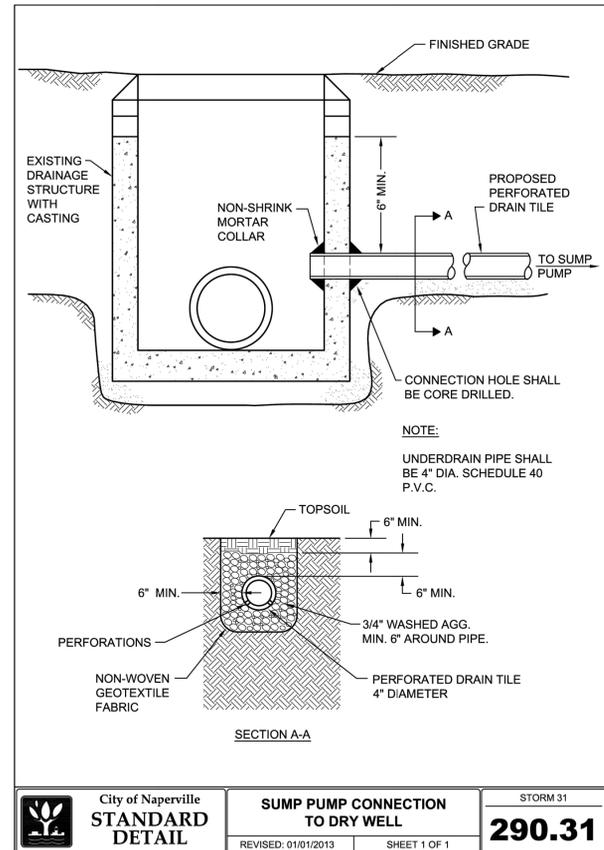
City of Naperville
STANDARD DETAIL
STORM 21
290.21
REVISED: 01/01/2013 SHEET 1 OF 1



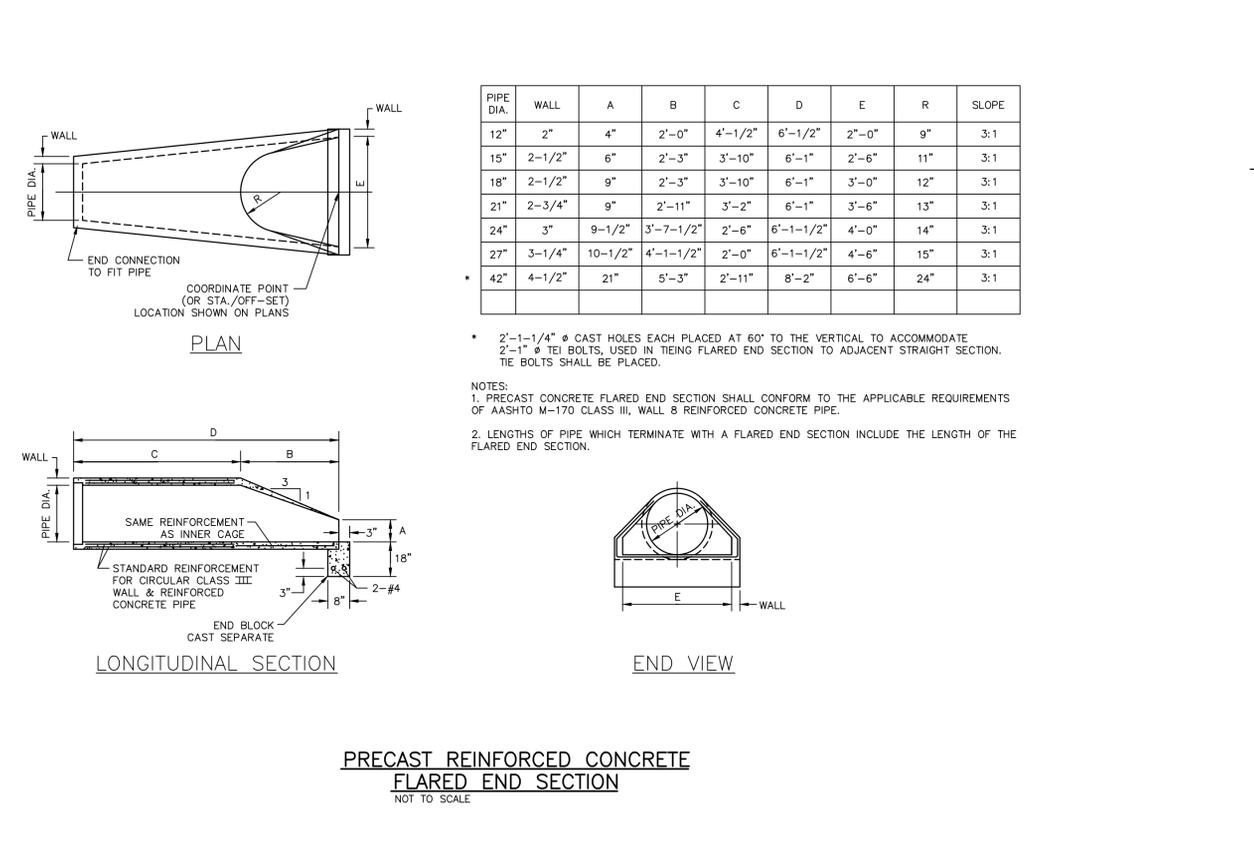
City of Naperville
STANDARD DETAIL
STORM 22
290.22
REVISED: 01/01/2013 SHEET 1 OF 1



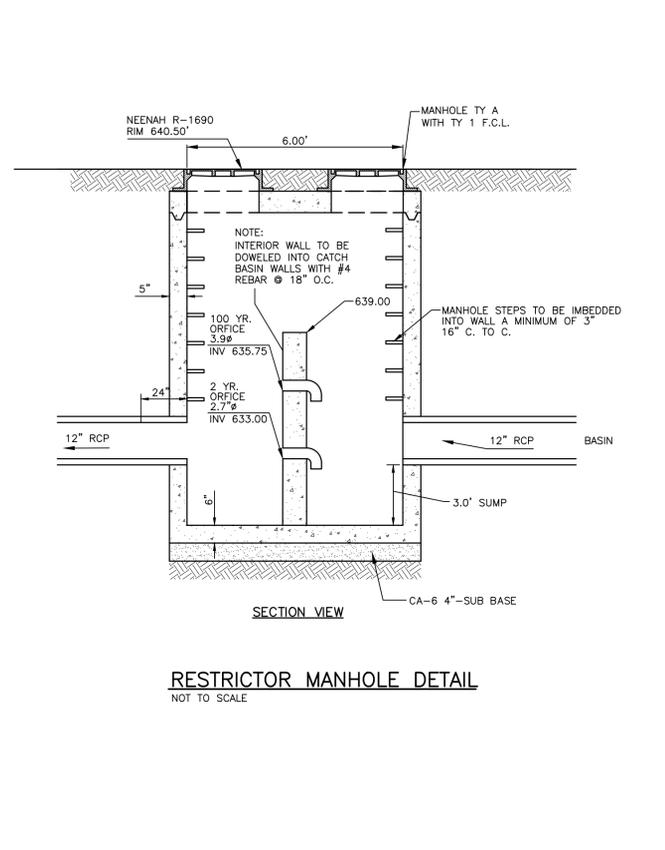
City of Naperville
STANDARD DETAIL
STORM 30
290.30
REVISED: 01/01/2013 SHEET 1 OF 1



City of Naperville
STANDARD DETAIL
STORM 31
290.31
REVISED: 01/01/2013 SHEET 1 OF 1



City of Naperville
STANDARD DETAIL
STORM 31
290.31
REVISED: 01/01/2013 SHEET 1 OF 1

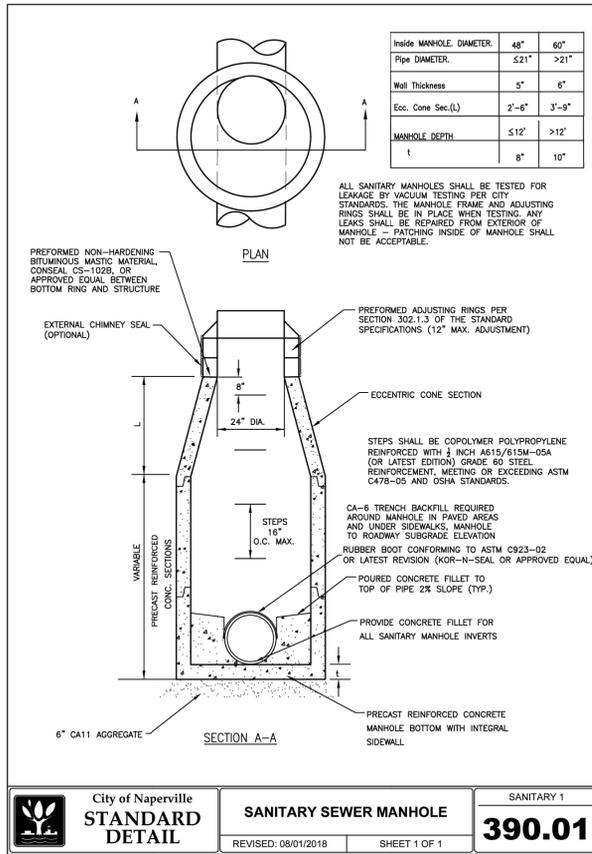


City of Naperville
STANDARD DETAIL
STORM 31
290.31
REVISED: 01/01/2013 SHEET 1 OF 1

DATE	DESCRIPTION
06-11-2025	ADDENDUM #1
07-11-2025	ADDENDUM #2
08-07-2025	ADDENDUM #3
09-03-2025	ADDENDUM #4
09-15-2025	ADDENDUM #5

DATE	04-16-2025
PROJECT #	W24300.00
DESIGNED BY	MD
DRAWN BY	MD
CHECKED BY	NAV

CONSTRUCTION DETAILS

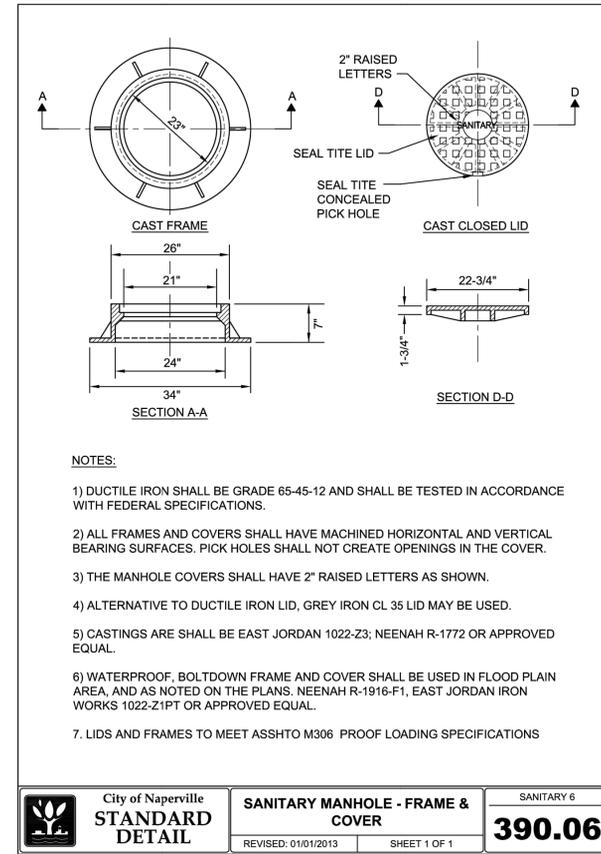


City of Naperville
**STANDARD
DETAIL**

SANITARY SEWER MANHOLE

REVIS: 08/01/2018 SHEET 1 OF 1

SANITARY 1
390.01

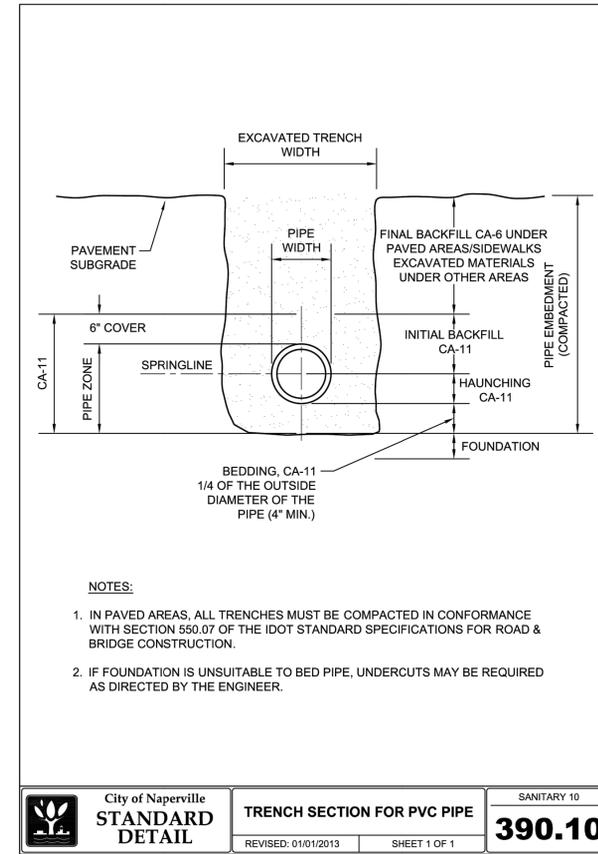


City of Naperville
**STANDARD
DETAIL**

**SANITARY MANHOLE - FRAME &
COVER**

REVIS: 01/01/2013 SHEET 1 OF 1

SANITARY 6
390.06

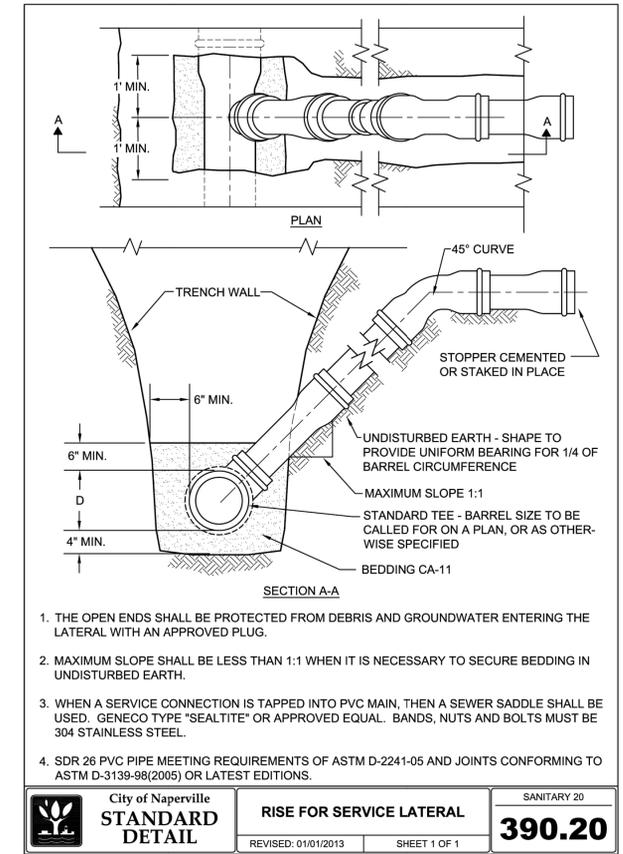


City of Naperville
**STANDARD
DETAIL**

TRENCH SECTION FOR PVC PIPE

REVIS: 01/01/2013 SHEET 1 OF 1

SANITARY 10
390.10

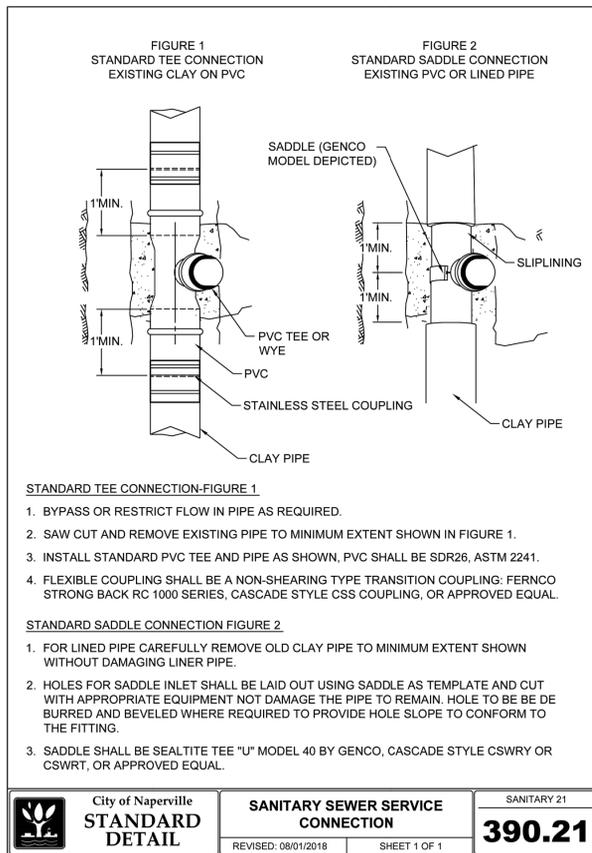


City of Naperville
**STANDARD
DETAIL**

RISE FOR SERVICE LATERAL

REVIS: 01/01/2013 SHEET 1 OF 1

SANITARY 20
390.20

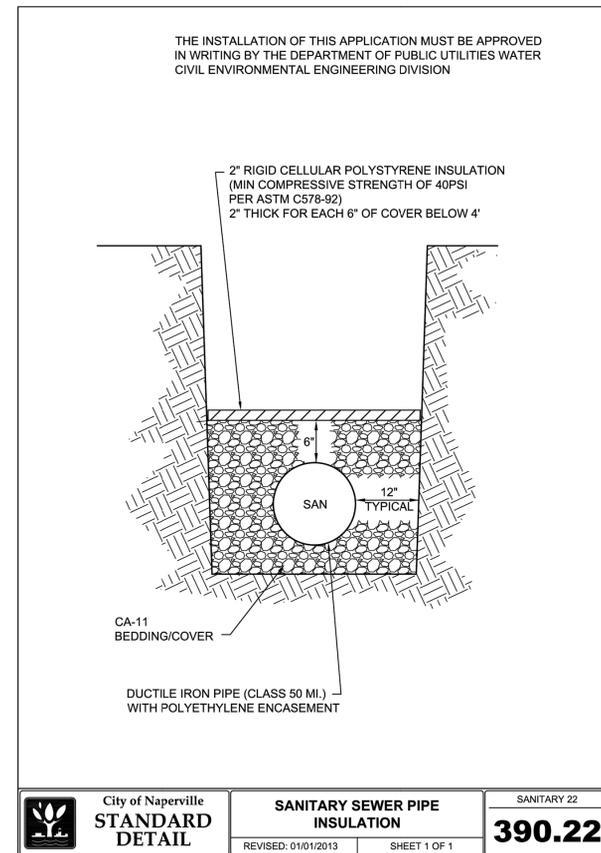


City of Naperville
**STANDARD
DETAIL**

**SANITARY SEWER SERVICE
CONNECTION**

REVIS: 08/01/2018 SHEET 1 OF 1

SANITARY 21
390.21

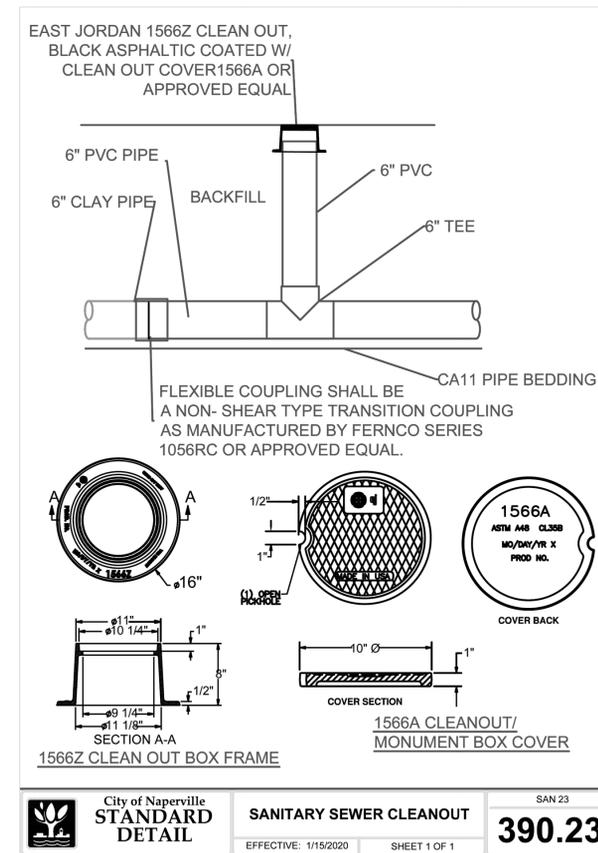


City of Naperville
**STANDARD
DETAIL**

**SANITARY SEWER PIPE
INSULATION**

REVIS: 01/01/2013 SHEET 1 OF 1

SANITARY 22
390.22



City of Naperville
**STANDARD
DETAIL**

SANITARY SEWER CLEANOUT

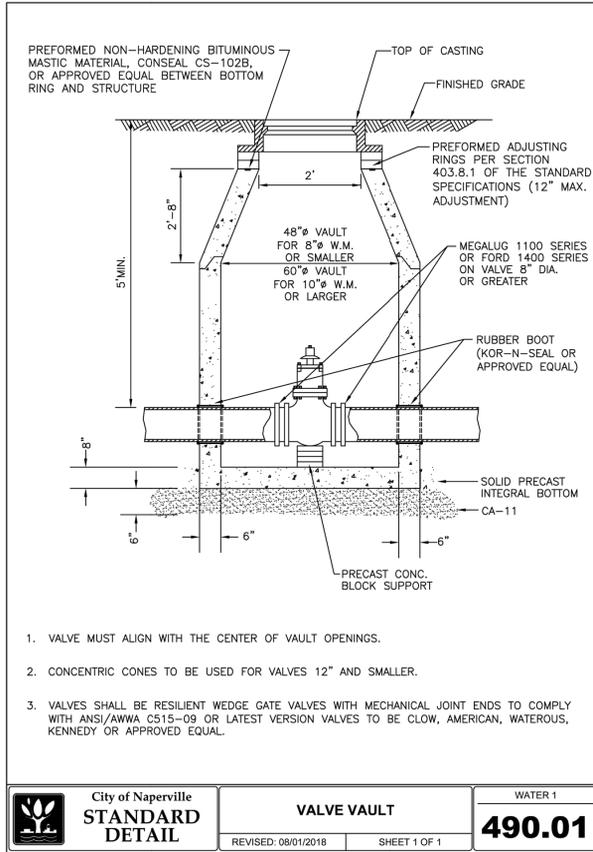
EFFECTIVE: 1/15/2020 SHEET 1 OF 1

SAN 23
390.23

06-11-2025	ADDENDUM #1
07-11-2025	ADDENDUM #2
08-07-2025	ADDENDUM #3
09-03-2025	ADDENDUM #4
09-15-2025	ADDENDUM #5

DATE	: 04-16-2025
PROJECT #	: W24300.00
DESIGNED BY	: MD
DRAWN BY	: MD
CHECKED BY	: NAV

CONSTRUCTION
DETAILS



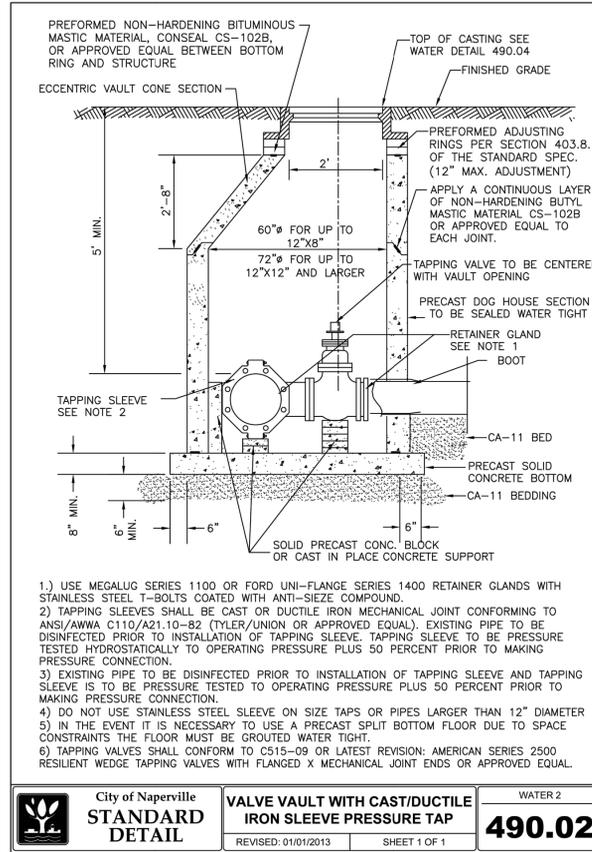
1. VALVE MUST ALIGN WITH THE CENTER OF VAULT OPENINGS.
2. CONCENTRIC CONES TO BE USED FOR VALVES 12" AND SMALLER.
3. VALVES SHALL BE RESILIENT WEDGE GATE VALVES WITH MECHANICAL JOINT ENDS TO COMPLY WITH ANSI/AWWA C515-09 OR LATEST VERSION VALVES TO BE CLOW, AMERICAN, WATEROUS, KENNEDY OR APPROVED EQUAL.

City of Naperville
**STANDARD
DETAIL**

VALVE VAULT

WATER 1

REVISED: 08/01/2018 SHEET 1 OF 1 **490.01**



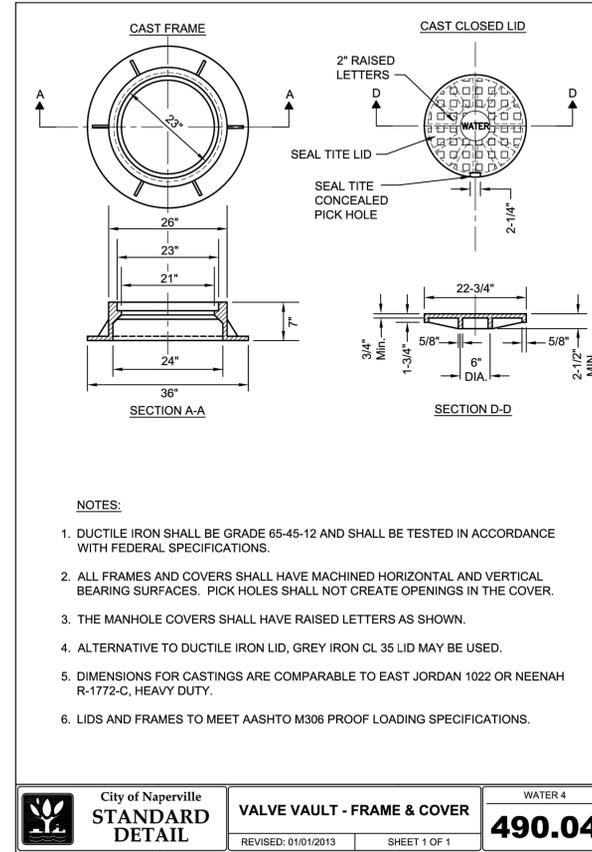
- 1.) USE MEGALUG SERIES 1100 OR FORD UNI-FLANGE SERIES 1400 RETAINER GLANDS WITH STAINLESS STEEL T-BOLTS COATED WITH ANTI-SIZE COMPOUND.
- 2) TAPPING SLEEVES SHALL BE CAST OR DUCTILE IRON MECHANICAL JOINT CONFORMING TO ANSI/AWWA C110/A21.10-82 (TYLER/JUNION OR APPROVED EQUAL). EXISTING PIPE TO BE DISINFECTED PRIOR TO INSTALLATION OF TAPPING SLEEVE. TAPPING SLEEVE TO BE PRESSURE TESTED HYDROSTATICALLY TO OPERATING PRESSURE PLUS 50 PERCENT PRIOR TO MAKING PRESSURE CONNECTION.
- 3) EXISTING PIPE TO BE DISINFECTED PRIOR TO INSTALLATION OF TAPPING SLEEVE AND TAPPING SLEEVE IS TO BE PRESSURE TESTED TO OPERATING PRESSURE PLUS 50 PERCENT PRIOR TO MAKING PRESSURE CONNECTION.
- 4) DO NOT USE STAINLESS STEEL SLEEVE ON SIZE TAPS OR PIPES LARGER THAN 12" DIAMETER
- 5) IN THE EVENT IT IS NECESSARY TO USE A PRECAST SPLIT BOTTOM FLOOR DUE TO SPACE CONSTRAINTS THE FLOOR MUST BE GROUTED WATER TIGHT.
- 6) TAPPING VALVES SHALL CONFORM TO C515-09 OR LATEST REVISION: AMERICAN SERIES 2500 RESILIENT WEDGE TAPPING VALVES WITH FLANGED X MECHANICAL JOINT ENDS OR APPROVED EQUAL.

City of Naperville
**STANDARD
DETAIL**

**VALVE VAULT WITH CAST/DUCTILE
IRON SLEEVE PRESSURE TAP**

WATER 2

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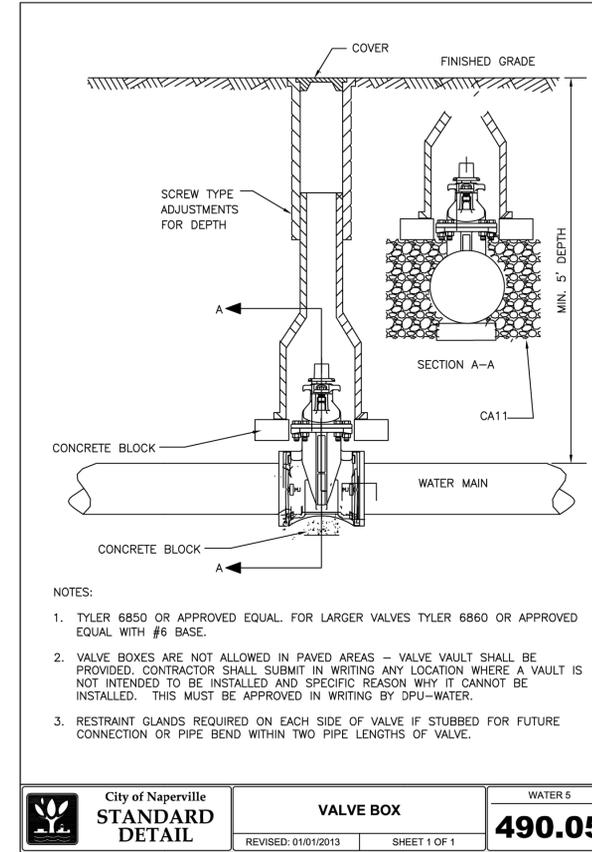
- NOTES:
1. DUCTILE IRON SHALL BE GRADE 65-45-12 AND SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
 2. ALL FRAMES AND COVERS SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. PICK HOLES SHALL NOT CREATE OPENINGS IN THE COVER.
 3. THE MANHOLE COVERS SHALL HAVE RAISED LETTERS AS SHOWN.
 4. ALTERNATIVE TO DUCTILE IRON LID, GREY IRON CL 35 LID MAY BE USED.
 5. DIMENSIONS FOR CASTINGS ARE COMPARABLE TO EAST JORDAN 1022 OR NEENAH R-1772-C, HEAVY DUTY.
 6. LIDS AND FRAMES TO MEET AASHTO M306 PROOF LOADING SPECIFICATIONS.

City of Naperville
**STANDARD
DETAIL**

VALVE VAULT - FRAME & COVER

WATER 4

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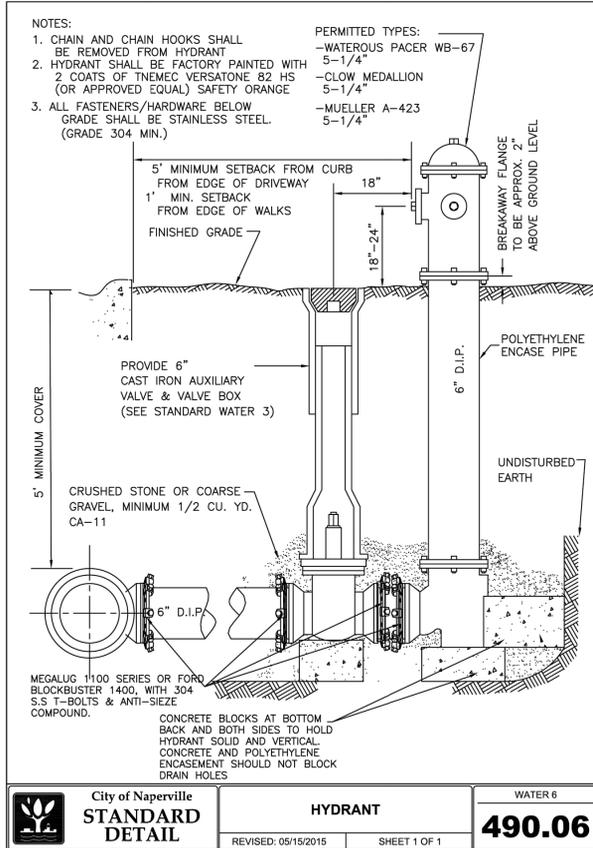
- NOTES:
1. TYLER 6850 OR APPROVED EQUAL. FOR LARGER VALVES TYLER 6860 OR APPROVED EQUAL WITH #6 BASE.
 2. VALVE BOXES ARE NOT ALLOWED IN PAVED AREAS - VALVE VAULT SHALL BE PROVIDED. CONTRACTOR SHALL SUBMIT IN WRITING ANY LOCATION WHERE A VAULT IS NOT INTENDED TO BE INSTALLED AND SPECIFIC REASON WHY IT CANNOT BE INSTALLED. THIS MUST BE APPROVED IN WRITING BY DPU-WATER.
 3. RESTRAINT GLANDS REQUIRED ON EACH SIDE OF VALVE IF STUBBED FOR FUTURE CONNECTION OR PIPE BEND WITHIN TWO PIPE LENGTHS OF VALVE.

City of Naperville
**STANDARD
DETAIL**

VALVE BOX

WATER 5

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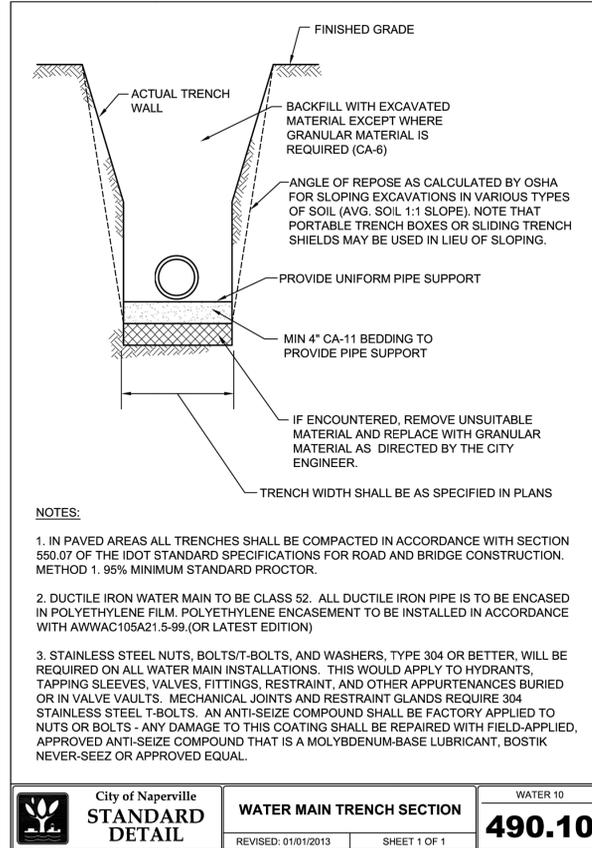
1. IN PAVED AREAS ALL TRENCHES SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. METHOD 1. 95% MINIMUM STANDARD PROCTOR.
2. DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM. POLYETHYLENE ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH AWWAC105A21.5-99.(OR LATEST EDITION)
3. STAINLESS STEEL NUTS, BOLTS/T-BOLTS, AND WASHERS. TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIRED WITH FIELD-APPLIED, APPROVED ANTI-SIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEEZ OR APPROVED EQUAL.

City of Naperville
**STANDARD
DETAIL**

HYDRANT

WATER 6

REVISED: 05/15/2015 SHEET 1 OF 1 **490.06**



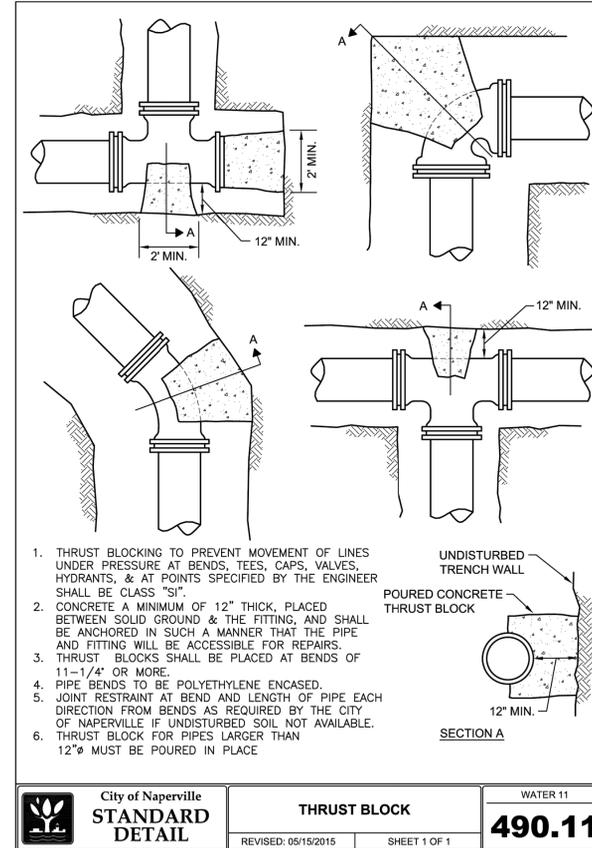
1. IN PAVED AREAS ALL TRENCHES SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. METHOD 1. 95% MINIMUM STANDARD PROCTOR.
2. DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM. POLYETHYLENE ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH AWWAC105A21.5-99.(OR LATEST EDITION)
3. STAINLESS STEEL NUTS, BOLTS/T-BOLTS, AND WASHERS. TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIRED WITH FIELD-APPLIED, APPROVED ANTI-SIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEEZ OR APPROVED EQUAL.

City of Naperville
**STANDARD
DETAIL**

WATER MAIN TRENCH SECTION

WATER 10

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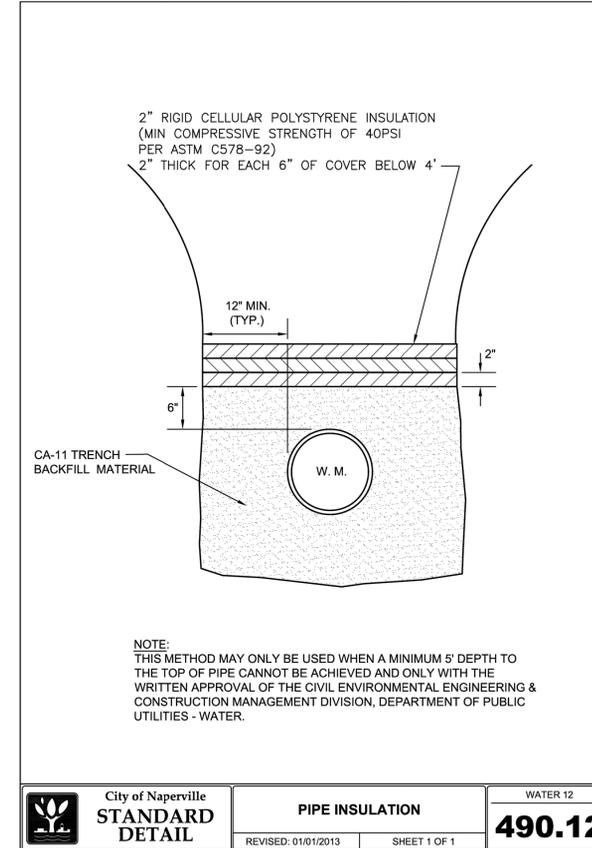
1. THRUST BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE AT BENDS, TEES, CAPS, VALVES, HYDRANTS, & AT POINTS SPECIFIED BY THE ENGINEER SHALL BE CLASS "SI".
2. CONCRETE A MINIMUM OF 12" THICK, PLACED BETWEEN SOLID GROUND & THE FITTING, AND SHALL BE ANCHORED IN SUCH A MANNER THAT THE PIPE AND FITTING WILL BE ACCESSIBLE FOR REPAIRS.
3. THRUST BLOCKS SHALL BE PLACED AT BENDS OF 11-1/4' OR MORE.
4. PIPE BENDS TO BE POLYETHYLENE ENCASED.
5. JOINT RESTRAINT AT BEND AND LENGTH OF PIPE EACH DIRECTION FROM BENDS AS REQUIRED BY THE CITY OF NAPERVILLE IF UNDISTURBED SOIL NOT AVAILABLE.
6. THRUST BLOCK FOR PIPES LARGER THAN 12" MUST BE POURED IN PLACE

City of Naperville
**STANDARD
DETAIL**

THRUST BLOCK

WATER 11

REVISED: 05/15/2015 SHEET 1 OF 1 **490.11**



- NOTE:
THIS METHOD MAY ONLY BE USED WHEN A MINIMUM 5' DEPTH TO THE TOP OF PIPE CANNOT BE ACHIEVED AND ONLY WITH THE WRITTEN APPROVAL OF THE CIVIL ENVIRONMENTAL ENGINEERING & CONSTRUCTION MANAGEMENT DIVISION, DEPARTMENT OF PUBLIC UTILITIES - WATER.

City of Naperville
**STANDARD
DETAIL**

PIPE INSULATION

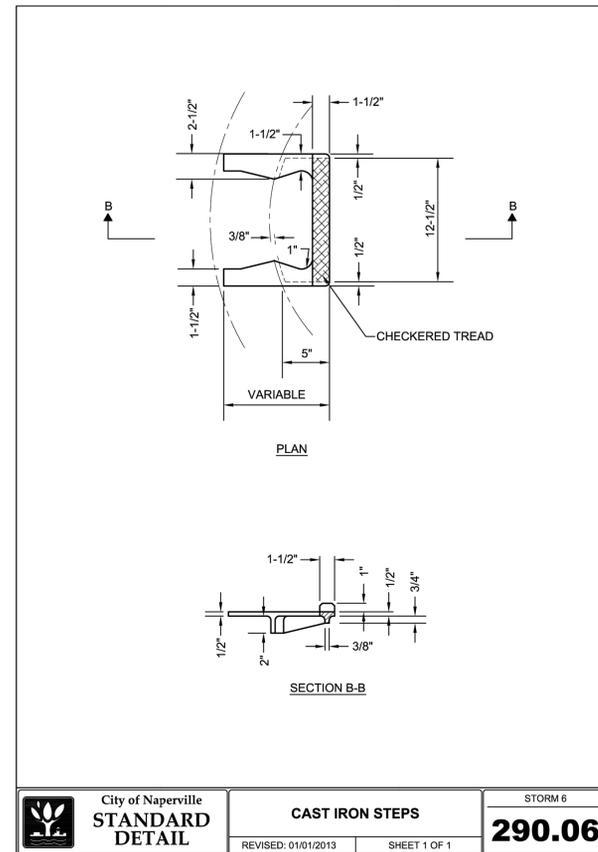
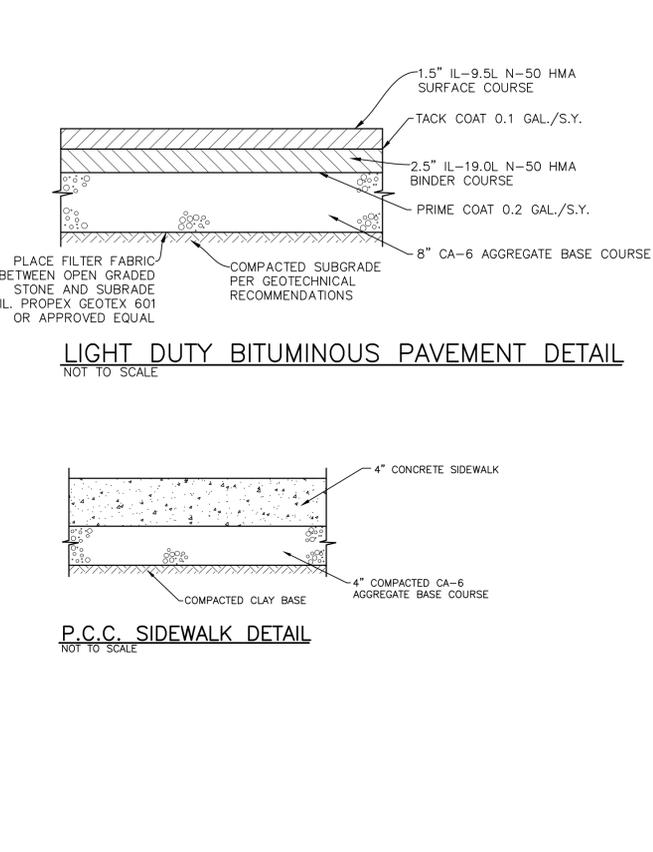
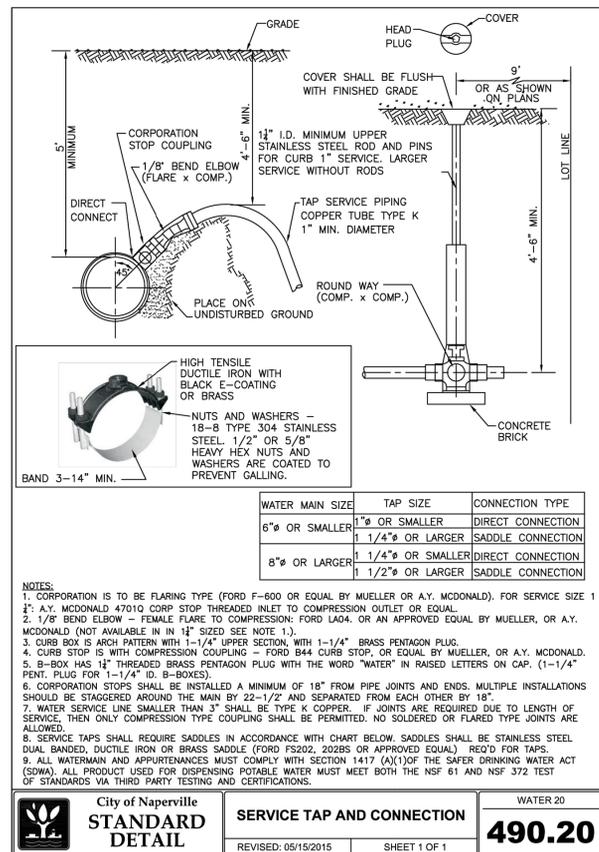
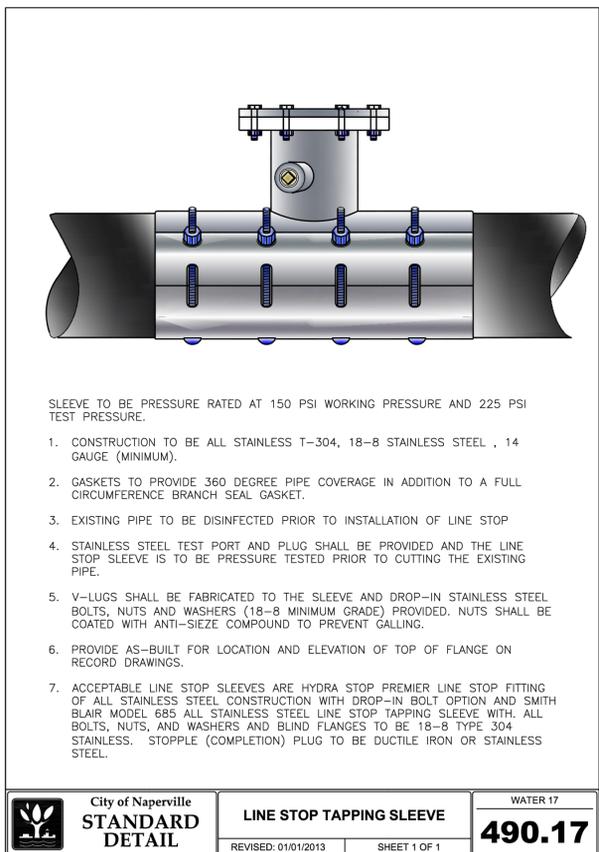
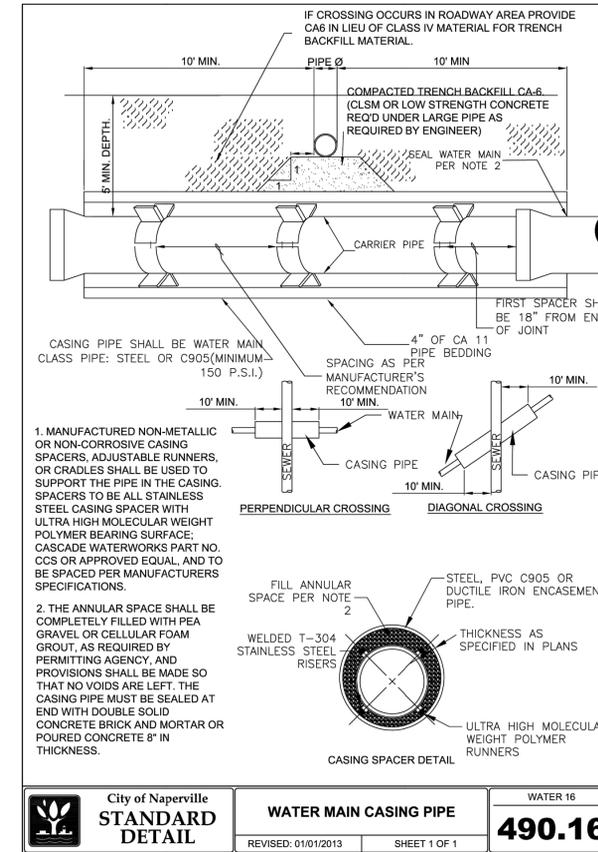
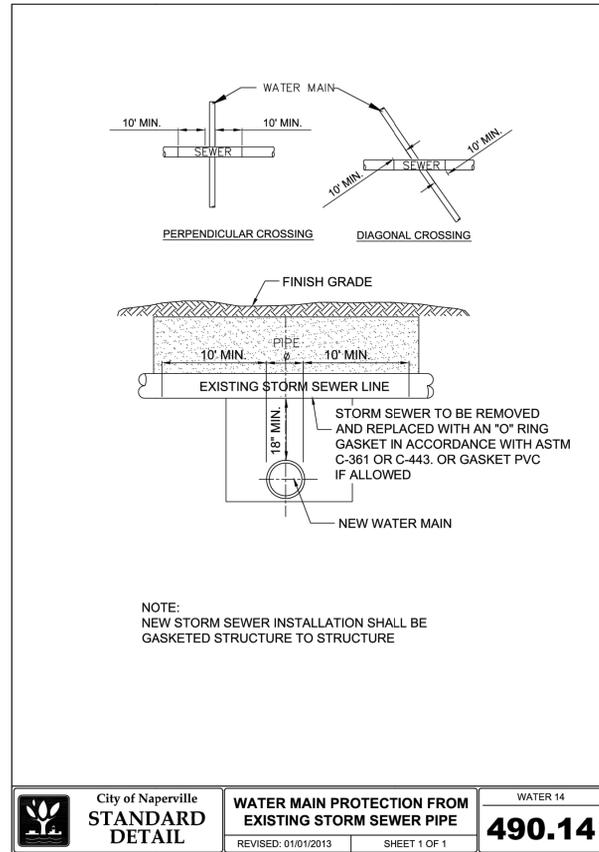
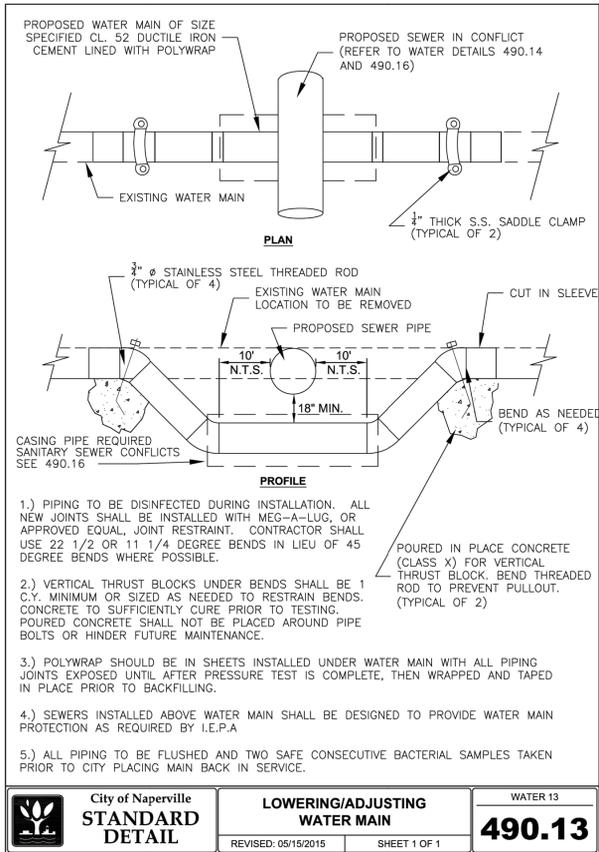
WATER 12

REVISED: 01/01/2013 SHEET 1 OF 1 **490.12**

06-11-2025	ADDENDUM #1
07-11-2025	ADDENDUM #2
08-07-2025	ADDENDUM #3
09-03-2025	ADDENDUM #4
09-15-2025	ADDENDUM #5

DATE	: 04-16-2025
PROJECT #	: W24300.00
DESIGNED BY	: MD
DRAWN BY	: MD
CHECKED BY	: NAV

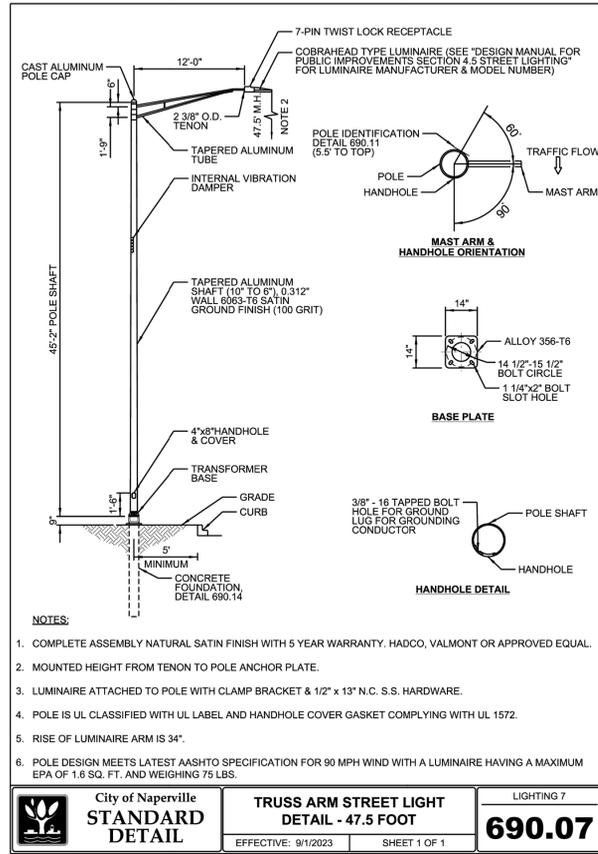
CONSTRUCTION DETAILS



ADDENDUM #	DATE	DESCRIPTION
ADDENDUM #1	06-11-2025	
ADDENDUM #2	07-11-2025	
ADDENDUM #3	08-07-2025	
ADDENDUM #4	09-03-2025	
ADDENDUM #5	09-15-2025	

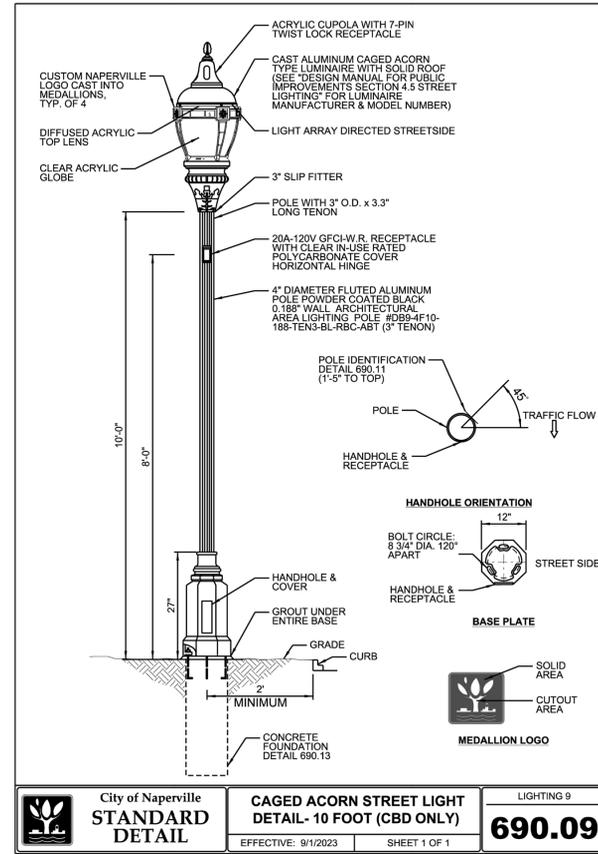
DATE	04-16-2025	DESIGNED BY	MD
PROJECT #	W24300.00	DRAWN BY	MD
CHECKED BY	NAV		

CONSTRUCTION DETAILS



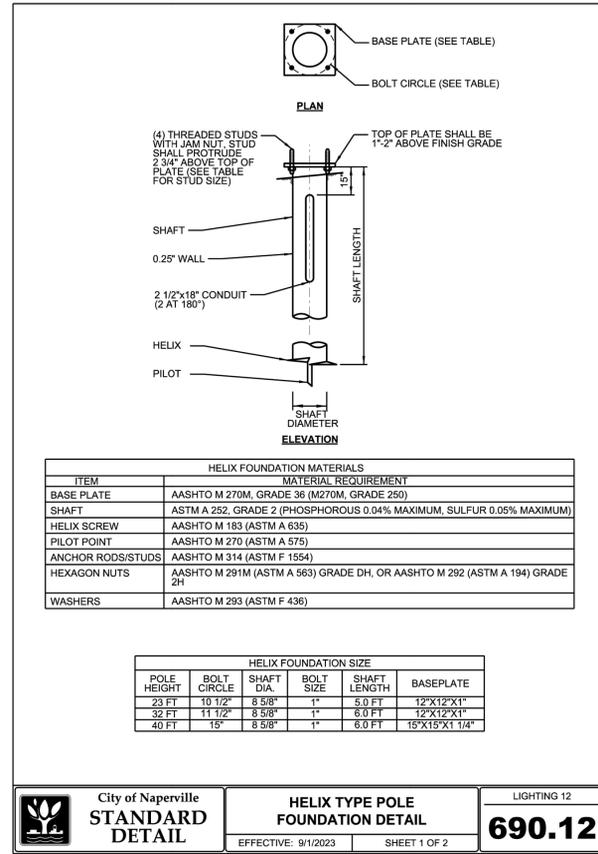
City of Naperville
STANDARD DETAIL
EFFECTIVE: 9/1/2023 SHEET 1 OF 1

TRUSS ARM STREET LIGHT DETAIL - 47.5 FOOT
LIGHTING 7
690.07



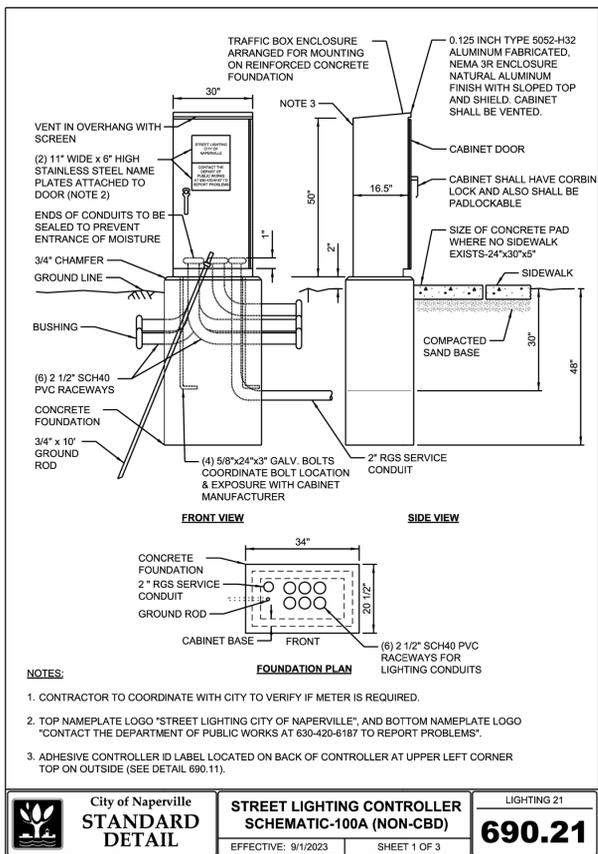
City of Naperville
STANDARD DETAIL
EFFECTIVE: 9/1/2023 SHEET 1 OF 1

CAGED ACORN STREET LIGHT DETAIL - 10 FOOT (CBD ONLY)
LIGHTING 9
690.09



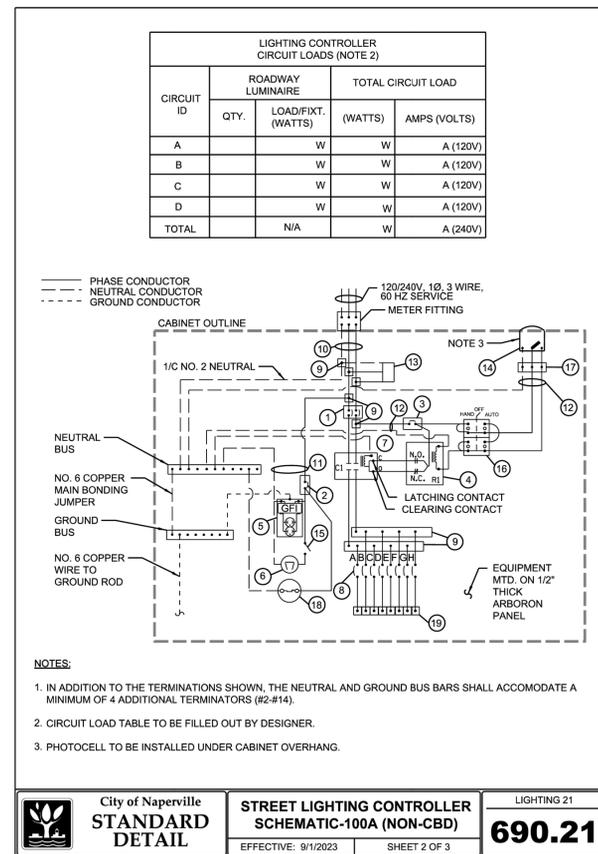
City of Naperville
STANDARD DETAIL
EFFECTIVE: 9/1/2023 SHEET 1 OF 2

HELIX TYPE POLE FOUNDATION DETAIL
LIGHTING 12
690.12



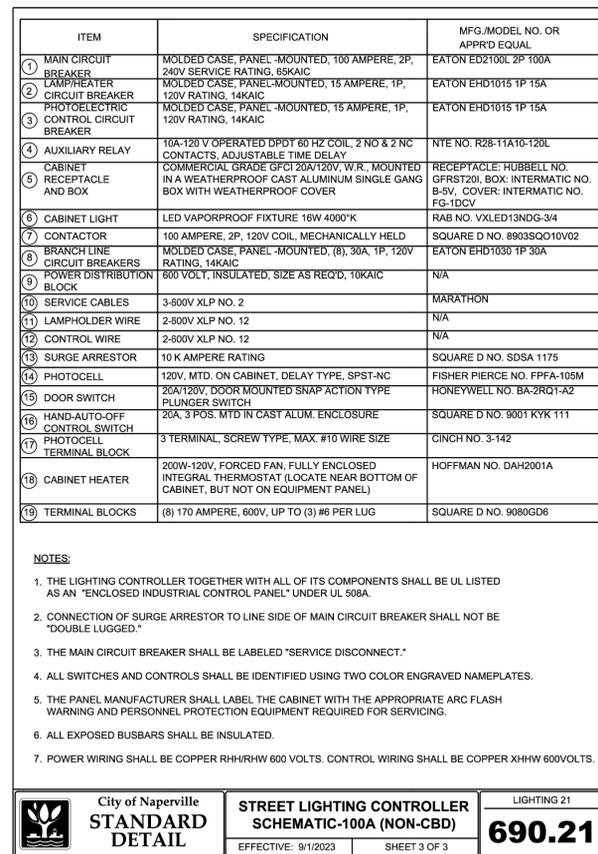
City of Naperville
STANDARD DETAIL
EFFECTIVE: 9/1/2023 SHEET 1 OF 3

STREET LIGHTING CONTROLLER SCHEMATIC-100A (NON-CBD)
LIGHTING 21
690.21



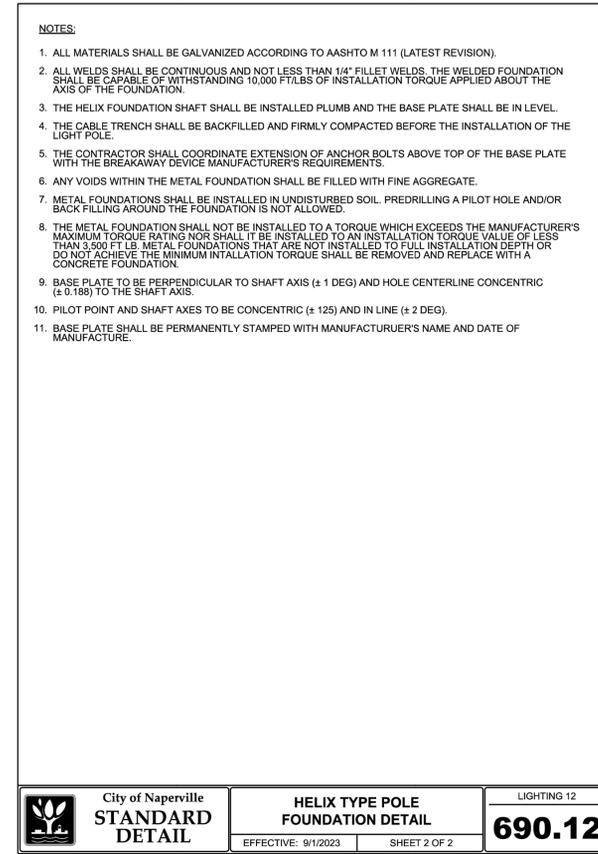
City of Naperville
STANDARD DETAIL
EFFECTIVE: 9/1/2023 SHEET 2 OF 3

STREET LIGHTING CONTROLLER SCHEMATIC-100A (NON-CBD)
LIGHTING 21
690.21



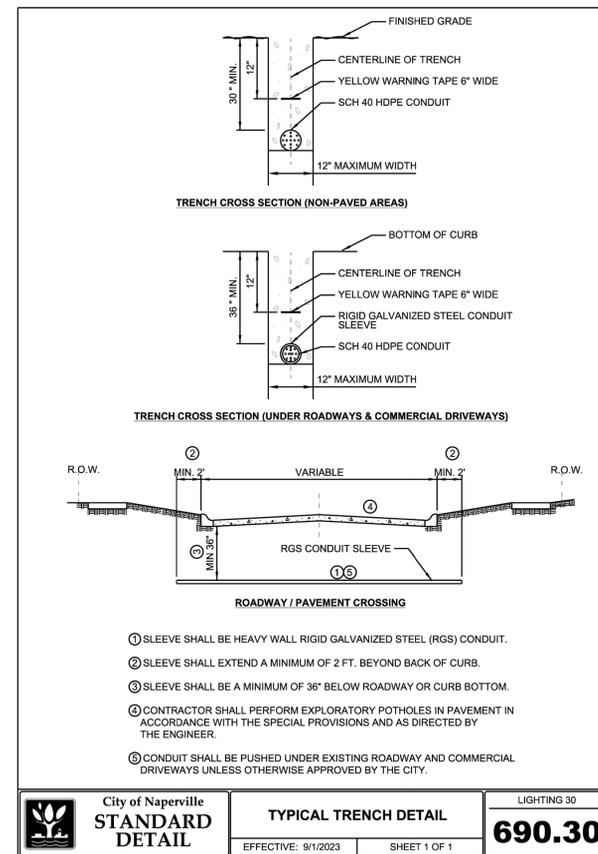
City of Naperville
STANDARD DETAIL
EFFECTIVE: 9/1/2023 SHEET 3 OF 3

STREET LIGHTING CONTROLLER SCHEMATIC-100A (NON-CBD)
LIGHTING 21
690.21



City of Naperville
STANDARD DETAIL
EFFECTIVE: 9/1/2023 SHEET 2 OF 2

HELIX TYPE POLE FOUNDATION DETAIL
LIGHTING 12
690.12



City of Naperville
STANDARD DETAIL
EFFECTIVE: 9/1/2023 SHEET 1 OF 1

TYPICAL TRENCH DETAIL
LIGHTING 30
690.30