

ORCHARD TOWN CENTER OUTPARCEL 13 GLEN CARBON, ILLINOIS

SUMMARY TABLE

PARCEL NUMBER: 14-2-15-23-00-000-083
SITE ADDRESS: 2041 TROY ROAD,
EDWARDSVILLE, ILLINOIS
GROSS LOT AREA: 6.94+ ACRES
PROPOSED ZONING: CG, VILLAGE OF GLEN CARBON

F.E.M.A. CLASSIFICATION

ZONE "C" FEMA PANEL #1704360095B (AREA OF MINIMAL FLOOD HAZARD)
EFFECTIVE DATE: APRIL 15, 1982

UTILITIES

WATER:	VILLAGE OF GLEN CARBON	(618) 288-2661
WATER:	CITY OF EDWARDSVILLE	(618) 692-7535
SANITARY SEWER:	VILLAGE OF GLEN CARBON	(618) 288-2661
ELECTRIC:	AMEREN IP	(800) 755-5000
GAS:	AMEREN IP	(800) 755-5000
TELEPHONE:	AT&T	(800) 244-4444
FIBER OPTIC:	AT&T	(800) 762-0592
J.U.L.I.E.:		(800) 892-0123

CIVIL SITE DRAWINGS

PART OF THE NORTHEAST QUARTER OF SECTION 23, TOWNSHIP 4
NORTH, RANGE 8 WEST OF THE THIRD PRINCIPAL MERIDIAN,
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

DRIVEWAY, SIDEWALK AND PARKING LOT CERTIFICATION

THE OWNER AND/OR BUILDER/DEVELOPER WITH CONSULTATION OF A QUALIFIED PROFESSIONAL ENGINEER WILL INSURE ADEQUATE COMPACTION OF GRADES UNDER SIDEWALKS, DRIVEWAYS AND PARKING LOTS WHEN INSTALLED OVER PUBLIC ROAD RIGHT-OF-WAY AND EASEMENTS. THE VILLAGE OF GLEN CARBON ASSUMES NO RESPONSIBILITY FOR ANY SETTLEMENT OR PAVEMENT DAMAGE AND THE OWNER AND/OR BUILDER/DEVELOPER HEREBY AGREES TO HOLD THE VILLAGE HARMLESS FROM ANY FUTURE COSTS OR MAINTENANCE OF SAID SIDEWALKS, DRIVEWAYS AND/OR PARKING LOTS.

OWNER _____

BUILDER/DEVELOPER _____

DRAINAGE STATEMENT

WE THE UNDERSIGNED, DO HEREBY CERTIFY TO THE BEST OF OUR KNOWLEDGE AND BELIEF THAT DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF SUCH SITE OR ANY PART THEREOF, OR THAT IF SUCH SURFACE WATER WILL BE CHANGED, ADEQUATE 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 NOT BE DEPOSITED ON THE PROPERTY OF ADJOINING LAND OWNERS IN SUCH CONCENTRATIONS AS MAY CAUSE DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE DEVELOPED SITE.

OWNER _____

ENGINEER _____

CERTIFICATE OF BOARD OF TRUSTEES

I, ROBERT MARCUS, PRESIDENT OF THE VILLAGE OF GLEN CARBON, DO HEREBY CERTIFY THAT THE SITE PLAN SHOWN HEREIN WAS DULY PRESENTED TO THE BOARD OF TRUSTEES AND APPROVED AT A MEETING OF SAME HELD ON 2023.

PRESIDENT _____

VILLAGE CLERK _____

VILLAGE APPROVAL:

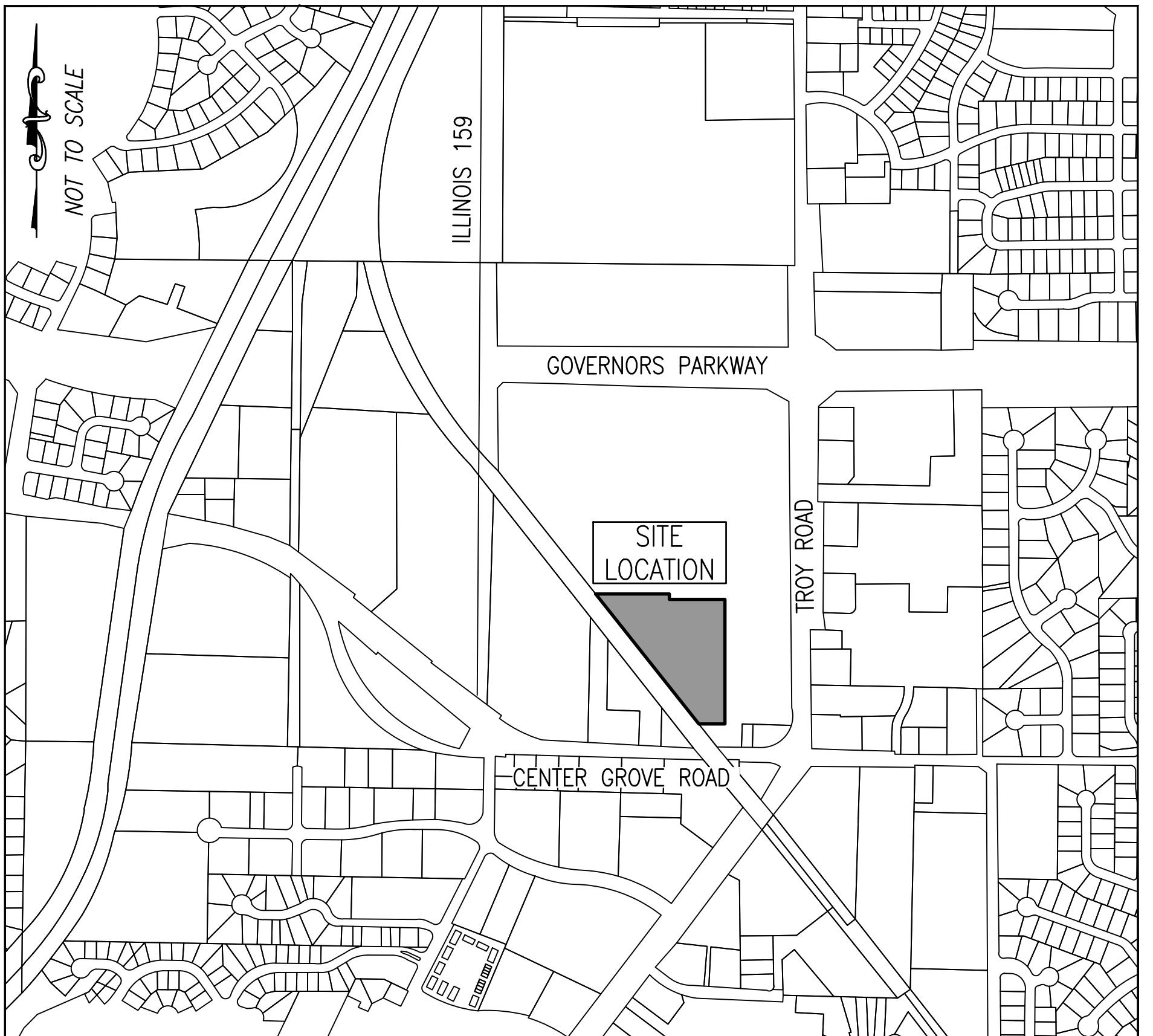
THE IMPROVEMENT PLANS FOR ORCHARD TOWN CENTER OUTPARCEL 13 WAS APPROVED BY THE VILLAGE OF GLEN CARBON, ILLINOIS ON THE _____ DAY OF _____, 2023.

PUBLIC WORKS DIRECTOR _____

DATE _____

DIRECTOR OF COMMUNITY DEVELOPMENT _____

DATE _____



PROJECT LOCATION
N
NOT TO SCALE

NO. DRAWING TITLE

C1.0	COVER SHEET AND GENERAL NOTES
C1.1	GENERAL NOTES
C2.0	EXISTING TOPOGRAPHY
C3.0	OVERALL SITE PLAN
C3.1	SITE PLAN - ENTRANCE
C3.2	SITE PLAN - NORTH
C3.3	SITE PLAN - SOUTH
C3.4	BIKE PATH PLAN AND PROFILE
C4.0	OVERALL GRADING AND SEDIMENT CONTROL PLAN
C4.1	GRADING PLAN - ENTRANCE
C4.2	GRADING PLAN - NORTH
C4.3	GRADING PLAN - SOUTH
C4.4	SPOT ELEVATION PLAN - ENTRANCE
C4.5	SPOT ELEVATION PLAN - NORTH
C4.6	SPOT ELEVATION PLAN - SOUTH
C5.0	OVERALL UTILITY PLAN
C5.1	UTILITY PLAN - ENTRANCE
C5.2	UTILITY PLAN - NORTH
C5.3	UTILITY PLAN - SOUTH
C5.4	SANITARY SEWER SERVICE PLAN AND PROFILE - BUILDING A
C5.5	SANITARY SEWER SERVICE PLAN AND PROFILE - BUILDING B
C5.6	SANITARY SEWER SERVICE PLAN AND PROFILE - BUILDING C
C5.7	STORM SEWER PROFILES
C5.8	STORM SEWER PROFILES
C6.0	SEDIMENT CONTROL DETAILS
C6.1	SANITARY SEWER DETAILS
C6.2	STORM SEWER DETAILS
C6.3	WATER MAIN DETAILS
C6.4	ACCESSIBILITY DETAILS
C6.5	PAVEMENT DETAILS



CONSULTING ENGINEERING
GEOSPATIAL SERVICES

ILLINOIS SWANSEA
COLUMBIA
GLEN CARBON
PEORIA

MISSOURI ST. CHARLES
ST. LOUIS
COLUMBIA

TENNESSEE NASHVILLE
CHATTANOOGA

THOUVENOT, WADE
& MOERCHEN, INC.

SWANSEA OFFICE
4940 OLD COLLINSVILLE RD.
SWANSEA, ILLINOIS
62226
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WWW.TWM-INC.COM

PROF. LICENSE NUMBER
IL. PROF. DESIGN FIRM 184-001220
IL. PROF. ENGR. CORP. 62-035370
IL. PROF. STR. ENGR. CORP. 81-005202
IL. PROF. LAND SURV. CORP. 048-000029
KS. PROF. ENGR. FACILITY E-3256
MO. PROF. ENGR. CORP. 001528
MO. LAND SURVEYING CORP. 000346
TN. PROF. ENGR. FIRM 8974



SIGNATURE: Dana Link
DATE SIGNED: 08/14/2023
LICENSE EXPIRATION: 11/30/2023

ISSUED FOR REVIEW
AUGUST 14, 2023

REV.	DATE	DESCRIPTION
▲	08-24-23	VILLAGE OF GLEN CARBON REVIEW
△		
△		
△		
△		

DRAWN BY: DAB
DESIGNED BY: DLL
CHECKED BY: DLL
APPROVED BY: MJM
PROJECT NO: D10150464F

PROJECT:

ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

TITLE:

COVER SHEET
AND GENERAL NOTES

C1.0

PRELIMINARY

GENERAL NOTES:

PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL REVIEW ALL PLANS, SPECIFICATIONS, AND THE PROJECT SITE(S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER AND THE ENGINEER WHO PREPARED THE PLANS OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATION TO THESE PLANS OR OF ANY FIELD CONFLICTS.

SHOULD IT APPEAR THAT THE WORK TO BE PERFORMED OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

THESE PLANS AND SPECIFICATIONS ARE SUBJECT TO MODIFICATIONS DURING CONSTRUCTION WHEN CONDITIONS DEVELOP THAT WERE NOT APPARENT DURING THE DESIGN AND PREPARATION OF THE PLANS AND SPECIFICATIONS. ALL MODIFICATIONS MUST BE APPROVED BY ALL PERTINENT AGENCIES HAVING JURISDICTION OVER THIS PROJECT PRIOR TO CONSTRUCTION AND/OR IMPLEMENTATION OF ANY PROPOSED CHANGES.

IN THE EVENT OF ANY DISCREPANCY BETWEEN ANY DRAWING AND THE FIGURES WRITTEN THEREON, THE FIGURES SHALL BE TAKEN AS CORRECT.

THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR PROJECT SITE(S) CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE OWNER AND DESIGN PROFESSIONAL HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

TWM, INC. SHALL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES IN CONNECTION WITH THE WORK.

ALL WORKMANSHIP, EQUIPMENT, MATERIALS, AND TESTING SHALL CONFORM TO THE PERTINENT MUNICIPAL, COUNTY, STATE, AND FEDERAL JURISDICTIONS AND AGENCIES HAVING AUTHORITY OVER THIS PROJECT. IN ADDITION, ALL WORKMANSHIP, EQUIPMENT, MATERIALS, AND TESTING SHALL CONFORM TO THE RESPECTIVE UTILITY COMPANY REQUIREMENTS. ALL EQUIPMENT, MATERIALS, AND PRODUCTS SHALL BE OF THE LATEST MANUFACTURE AND COMPLY WITH THE MOST UP TO DATE SPECIFICATIONS AT THE TIME OF BIDDING OF THE PROJECT.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND INSTALLING ANY AND ALL TRAFFIC BARRICADES, MARKERS, SIGNS, FLAGMEN, TRAFFIC POLICE, AND/OR OTHER FACILITIES AS MAY BE REQUIRED BY THE VARIOUS JURISDICTIONS HAVING AUTHORITY OVER THIS PROJECT TO PROTECT THE GENERAL PUBLIC. SIGNS AND PROTECTIVE DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY OF NOTIFYING THE STATE AND LOCAL POLICE, EMERGENCY SERVICES AGENCIES, AMBULANCE SERVICES, AND FIRE DEPARTMENTS OF ANY PROPOSED TRAFFIC DIVERSION.

ALL UTILITIES INCLUDING BUT NOT LIMITED TO FIRE HYDRANTS, VALVE PIT COVERS, VALVE BOXES, CURB STOP BOXES, FIRE OR POLICE CALL BOXES, TRAFFIC CONTROL SIGNALS, OR OTHER UTILITY CONTROLS SHALL BE UNOBSTRUCTED AND ACCESSIBLE DURING THE CONSTRUCTION PERIOD.

WHERE SECTION OR SUBSECTION SURVEY MONUMENTS ARE ENCOUNTERED, THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT, HAVE WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL ITEMS NOTED FOR REMOVAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

ALL EXISTING VEGETATION AND TOPSOIL IS TO BE REMOVED FROM PLANNED CONSTRUCTION AREAS PRIOR TO PLACING FILL.

SOFT SOILS SHOULD BE EXCAVATED PRIOR TO PLACING FILL. IF REMOVAL OF SOFT SOIL IS NOT PRACTICAL DUE TO EXCESSIVE DEPTH, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER TO DISCUSS METHODS OF STABILIZATION.

FILL AREAS IN PAVEMENT AND BUILDING AREAS SHALL BE PLACED TO 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). NATIVE SUBGRADE IN FILL AREAS AND DETENTION BASIN FILL AREAS SHALL BE PLACED TO 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).

MAXIMUM STRUCTURAL FILL SLOPES SHALL NOT EXCEED 3:1. FILL SLOPES FOR LANDSCAPING BERM'S SHALL NOT EXCEED 2:1. EROSION CONTROL MEASURES SHOULD BE CONSIDERED ALONG THE FACE OF EACH SLOPE. EROSION CONTROL MEASURES TYPICALLY EMPLOYED WOULD INCLUDE SILT FENCES, DITCH CHECKS AND TIMELY SEEDING OR SODDING.

COMPACTION TESTS ARE TO BE TAKEN IN STREETS AND BUILDABLE AREAS ON LOTS. COMPACTION TESTS ARE REQUIRED FOR EACH FILL LIFT. NO LIFT TO EXCEED 8" IN DEPTH. CONTRACTOR IS RESPONSIBLE FOR HIRING AN INDEPENDENT TESTING AGENCY THAT WILL COMPLETE COMPACTION TESTING PER THE VILLAGE REQUIREMENTS PRIOR TO PLACING ANY PAVING MATERIAL.

ALL GRADING IN STREETS SHALL BE TO WITHIN ± 1 INCH OF SUBGRADE. ALL OTHER GRADES SHALL BE TO WITHIN ± 3 INCHES OF THOSE SHOWN ON THE GRADING PLAN.

ALL TOPSOIL REMOVED PRIOR TO BULK EARTH GRADING SHALL BE SPREAD EVENLY OVER THE AREAS TO BE PLANTED TO MEET THE FINAL GRADE PRIOR TO CONCLUDING EARTHWORK ACTIVITIES.

OWNER TO PROVIDE TEMPORARY SEEDING OVER ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES UNLESS OTHERWISE INDICATED ON THE PLANS. TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ACCORDANCE WITH SEEDING MIXTURE CLASS 1 AND MULCH METHOD 2, PROCEDURE 2.

ALL EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES DETAILED ON THE IMPROVEMENT PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN. THE MAINTENANCE OF THESE EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE DEVICES THEMSELVES.

ALL TRENCH EXCAVATION FOR ALL UTILITIES WITHIN THREE (3) FEET OF ANY PAVEMENT SURFACE SHALL BE BACKFIELD WITH 100% CA-6 AGGREGATE BACK FILL COMPACTED TO 95% COMPACTION. AGGREGATE BACKFILL QUANTITIES BID FOR THE PROJECT WILL BE CONSIDERED THE PAY QUANTITY. ANY ADJUSTMENTS DEEMED NECESSARY BY THE CONTRACTOR WITH RESPECT TO QUANTITY SHALL BE CONSIDERED AT THE TIME OF BIDDING ONLY.

DEWATERING OF AREAS TO BE EXCAVATED OR FILLED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL WORK SHALL CONFORM TO THE ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 205 EXCLUDING NOTE 1 UNDER 205.02.

THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.

PERMANENT FINAL VEGETATION INCLUDING LANDSCAPING SHALL BE INSTALLED AS SOON AS PRACTICAL.

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE MADISON COUNTY & VILLAGE OF GLEN CARBON ORDINANCES. CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING AND REMOVING ALL REQUIRED TEMPORARY TRAFFIC CONTROL DEVICES.

ALL PERMANENT TRAFFIC CONTROL DEVICES SHALL BE INSTALLED BY THE CONTRACTOR. ALL PERMANENT TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

ALL SUBGRADE UNDER PAVED AREAS SHALL BE CRUSHED STONE COMPACTED TO 95% STANDARD PROCTOR. ALL SUBGRADE IN CUT AREAS SHALL BE PROFROLLED, SCARIFIED AND RECOMPACTED AS NEEDED AND UNSUITABLE MATERIAL WILL BE REMOVED AND REPLACED WITH SUITABLE COMPACTED MATERIAL.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUB-GRADE COMPACTION TESTING AND SHALL PROVIDE THE ENGINEER AND OWNER REPORTS WITHIN 2 DAYS OF TESTING AND PRIOR TO POURING CONCRETE. CONTRACTOR IS RESPONSIBLE FOR HIRING INDEPENDENT TESTING AGENCY TO COMPLETE CONCRETE COMPRESSION TESTS ON EACH DAY'S CONCRETE POUR.

CONTRACTOR IS RESPONSIBLE FOR LOCATING AND INSTALLING ALL CURB TRANSITIONS AND DEPRESSED SECTIONS AT ALL ACCESSIBLE RAMP LOCATIONS AND OTHER CURB TRANSITIONS AS DETAILED ON THE PLANS.

UTILITY NOTES:

THE TYPE, SIZE AND LOCATION OF UTILITIES AS DELINEATED ON THE PLANS AND SPECIFICATIONS HAVE BEEN DETERMINED BY REVIEW OF AVAILABLE EXISTING "AS-BUILT" OR "RECORD" DRAWINGS; FIELD SURVEY OF J.U.L.I.E. MARKED UTILITIES; OR FIELD SURVEY OF ABOVE GROUND SURFACE UTILITY FEATURES. THE OWNER AND ENGINEER HAVE NOT UNDERTAKEN SURFACE OR SUB-SURFACE EXPLORATORY INVESTIGATIONS TO CONFIRM OR VERIFY THE LOCATION OF UTILITIES ON THE PROJECT SITE. THEREFORE ALL UTILITY LOCATIONS, SIZE, AND FUNCTION MUST BE CONSIDERED APPROXIMATE AND THE CONTRACTOR MUST VERIFY ALL UTILITIES IN THE FIELD.

THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. AND/OR THE PERTINENT UTILITY FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OPERATIONS. IF THE CONTRACTOR DETERMINES THAT SUBSTANTIAL DISCREPANCY EXISTS BETWEEN FIELD VERIFIED UTILITIES AND THESE PLANS WHICH WOULD SIGNIFICANTLY AFFECT THE FUNCTION, COST, OR PERFORMANCE OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND PROJECT DESIGN COORDINATION.

ANY RELOCATION OF PUBLIC OR PRIVATE UTILITIES SHALL BE UNDERTAKEN IN ACCORDANCE WITH ALL REQUIREMENTS OF THE UTILITY COMPANY AND WITH REGARD TO THE REQUIRED FEES, BONDS, PERMITS, AGREEMENTS, WORKING CONDITIONS, ETC. OF SAID COMPANY OR JURISDICTION. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND JURISDICTIONS A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF WORK TO ALLOW THE UTILITIES TO MARK THEIR LINES OR TO ALLOW THE PERTINENT JURISDICTIONS TIME TO COORDINATE THEIR STAFF, MATERIALS, AND EQUIPMENT TO CONDUCT INSPECTION.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING STRUCTURES, AND/OR UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY OR JURISDICTION TO PROPERLY REPAIR ANY FACILITIES DAMAGED IN THE COURSE OF THE WORK.

ALL ABANDONED UNDERGROUND STRUCTURES ENCOUNTERED SHALL BE REMOVED TO SUFFICIENT DEPTH TO ALLOW UNDERGROUND UTILITIES TO CROSS.

UTILITIES AND APPURTENANCES TO REMAIN IN THEIR PRESENT LOCATION SHALL BE ADJUSTED TO GRADE. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PROTECT EXISTING UTILITIES.

SANITARY SEWER PIPE SHALL BE PVC IN ACCORDANCE WITH ASTM D3034, SDR 35 WITH JOINTS IN ACCORDANCE WITH ASTM D3212 AND ANSI/AWWA A151 WITH JOINTS IN ACCORDANCE WITH AWWA C110 A21.10. IN ACCORDANCE WITH THE ILLINOIS ENVIRONMENTAL AGENCIES DESIGN STANDARDS FOR SEWAGE WORKS.

ALL SANITARY SEWERS SHALL BE AIR TESTED AND DEFLECTION TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS FOR 100% OF THE PIPE LENGTH. ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS AND MANPOWER NECESSARY FOR TESTING. THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS DEPARTMENT WHEN THE TESTING TAKES PLACE SO THAT A VILLAGE REPRESENTATIVE CAN BE PRESENT.

ALL MANHOLES SHALL BE TYPE A IN DESIGN AND FOUR FEET (4') IN DIAMETER, EQUIPPED WITH A-LOCK RUBBER GASKETS. RISERS AND SLABS SHALL BE IN ACCORDANCE WITH ASTM C478. LIFTING HOLES SHALL BE PROVIDED IN THE BASES AND RISERS. LIFTING HOOKS SHALL BE PROVIDED IN FLAT SLABS. MANHOLE STEPS SHALL BE CONSTRUCTED OF COPOLYMER POLYPROPYLENE PLASTIC.

ALL MANHOLE FRAMES AND LIDS SHALL BE NEENAH TYPE R-1916D. THE MANHOLE LID SHALL HAVE CAST IN THE CENTER THE WORD "WASTEWATER". MASTIC SEALANT SHALL BE APPLIED BETWEEN THE CONCRETE AND FLANGE OF THE FRAME BEFORE THE LIDS BOLTS ARE TIGHTENED.

MANHOLE LIDS MAY BE ADJUSTED WITH ADJUSTING RINGS FOR ADJUSTMENTS UP TO TWELVE (12) INCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ADJUSTMENTS.

SELECT GRANULAR BACKFILL CLASS I SHALL BE TYPE CA-6 AND SHALL BE USED AT ALL LOCATIONS WHERE SEWER MAINS AND SERVICES ARE INSTALLED FOR THE FULL DEPTH UNDER AREAS TO BE PAVED AND SHALL EXTEND THREE FEET (3') BEYOND ALL PAVED SURFACES AND INSTALLED IN ACCORDANCE WITH ASTM D2321.

ALL WASTEWATER SEWER CONNECTIONS TO BUILDINGS SHALL BE A MINIMUM OF SIX INCHES (6") IN DIAMETER.

ALL OUTFALL PIPES SHALL CONFORM TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL CULVERT PIPES/STORM SEWERS SHALL BE PROVIDED WITH END SECTIONS IF OUTFALLING ONTO A PAVED OR GRASS SWALE OR RIP-RAP OUTFALL.

ALL CULVERT PIPES/STORM SEWERS LOCATED UNDER PAVEMENT SURFACES SHALL BE REINFORCED CONCRETE PIPE WITH RUBBER GASKETED JOINTS AND SUFFICIENT WALL THICKNESS AND REINFORCEMENT TO CARRY THE INTENDED LOADING. MATERIALS SHALL MEET THE REQUIREMENTS OF ASTM C76 AND ASTM C-443 AND CARRY THE IDOT INSPECTION STAMP. MINIMUM STORM SEWER PIPE SIZE TO BE 15 INCHES PER THE VILLAGE OF GLEN CARBON.

ALL DOWNSPOUTS AND ANY SUMP PUMP DISCHARGES SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM.

ALL PRE-CAST INLETS, JUNCTION BOXES AND AREA INLETS SHALL PRESENT A SMOOTH SURFACE FOR WATER TO FLOW. CONTRACTOR TO ENSURE THAT THE DOWNSTREAM PIPE DOES NOT EXTEND INTO THE STRUCTURE, CREATING A LIP ON WHICH DEBRIS CAN COLLECT. STRUCTURES SHALL BE FILLETED AND GROUTED AS NEEDED.

CONTRACTOR WILL BE REQUIRED TO JET AND CLEAN ALL STORM SEWERS THAT COLLECT DEBRIS, MUD, CONCRETE, BUILDING SUPPLIES, ETC. WHILE THE WORK IS UNDER THE RESPONSIBILITY OF THE CONTRACTOR.

BEDDING MATERIAL FOR STORM SEWER PIPING SHALL BE CONSIDERED INCIDENTAL TO THE PIPE.

ALL WATER MAINS SHALL CONFORM TO THE VILLAGE OF GLEN CARBON REQUIREMENTS ON WATER MAIN MATERIALS AND WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION. IF THERE IS A CONFLICT BETWEEN THE SPECIFICATIONS AND THESE REGULATIONS, THE MORE STRINGENT PROVISION SHALL APPLY. WATER MAIN PIPE SHALL BE C-900 DR18 PVC OR CLASS 350 DUCTILE IRON BELL AND SPIGOT JOINTS CONFORMING TO ASTM D3139 EXCEPT AT HYDRANTS AND FITTINGS. HYDRANTS SHALL BE MUELLER SUPER CENTURION. ALL HYDRANTS TO BE PAINTED RED. TRACER WIRE SHALL BE SOFT DRAWN SOLID NO. 12 COPPER AND SHALL BE CONNECTED TO ALL VALVES AND HYDRANTS.

ALL WATER MAINS SHALL BE BURIED A MINIMUM OF 42" BELOW FINAL GRADE.

SELECT GRANULAR BACKFILL (CA-6) CRUSHED STONE SHALL BE INSTALLED FOR THE FULL DEPTH OVER ALL WATER MAINS THAT CROSS AREAS TO BE PAVED AND THREE FEET BEYOND ALL PAVEMENT.

WATER CONNECTIONS BETWEEN BUILDINGS AND THE VILLAGE WATER METER SHALL BE TYPE K ROLLED COPPER TUBING.

CROSSINGS OF WATER MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS.

THRUST BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 41-2.09 OF THE STANDARD SPECIFICATIONS.

CHLORINE SHALL BE USED FOR DISINFECTION IN ACCORDANCE WITH SECTION 41-2.14 OF THE STANDARD SPECIFICATIONS.

HYDROSTATIC AIR TESTING OF ALL NEW WATER MAINS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 41-2.13 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS AND MANPOWER NECESSARY FOR TESTING. THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS DEPARTMENT WHEN THE TESTING TAKES PLACE SO THAT A VILLAGE REPRESENTATIVE CAN BE PRESENT.

BACTERIOLOGICAL WATER SAMPLING OF ALL NEW WATER MAINS SHALL BE PERFORMED BY A REPRESENTATIVE OF THE VILLAGE PUBLIC WORKS DEPARTMENT PRIOR TO ACCEPTANCE OF THE WATER LINES BY THE VILLAGE.

THE SUBDIVIDER SHALL COMPLY WITH ALL ADDITIONAL STANDARD VILLAGE REQUIREMENTS FOR THE INSTALLATION OF WATER MAINS. (ORD. 2000-5, 1-11-2000)

ALL UTILITY CONDUITS SHALL BE FOUR (4) INCH U.L. LISTED SCHEDULE 40 PVC INSTALLED AT A MINIMUM DEPTH OF 30". ALL CONDUITS FOR GAS, ELECTRIC AND TELEPHONE SHALL BE INSTALLED PRIOR TO STREET INSTALLATION AND SHALL BE INSTALLED BY THE OWNER.

ALL UTILITY CONDUITS SHALL HAVE PULL WIRES INSTALLED, THE CONDUIT ENDS TEMPORARILY SEALED WITH TAPE AND 2"X4" INSTALLED AT EACH END, THE 2"X4" SHALL BE COLOR CODED TO MATCH THE STANDARD J.U.L.I.E. LOCATING COLORS BEING: RED FOR ELECTRIC, YELLOW FOR GAS AND ORANGE FOR TELEPHONE.

GAS, ELECTRIC POWER, TELEPHONE AND CABLE TELEVISION AND OTHER UTILITIES, EXCEPT SURFACE STORM WATER FACILITIES SHALL BE LOCATED UNDERGROUND THROUGHOUT THE SUBDIVISION.

GENERAL SPECIFICATIONS:

ALL WORK, INSTALLATION, PROCEDURES, MATERIALS, AND TESTING ASSOCIATED WITH THIS PROJECT SHALL CONFORM TO THE FOLLOWING STANDARDS:

* STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION

* ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS, LATEST EDITION AS PUBLISHED BY THE ILLINOIS EPA.

* RECOMMENDED STANDARDS FOR WATER WORKS, LATEST EDITION

* STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS PUBLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

* STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION, AS PUBLISHED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

* 77 ILLINOIS ADMINISTRATIVE CODE, PART 890, ILLINOIS PLUMBING CODE

* ILLINOIS URBAN MANUAL, LATEST EDITION AS PUBLISHED BY THE ILLINOIS EPA

* UNITED STATES AMERICANS WITH DISABILITIES ACT, AND THE ILLINOIS ADA

* ALL ORDINANCES, LAWS, REGULATIONS, AND STANDARDS OF ALL PERTINENT AUTHORITIES HAVING JURISDICTION OVER THE WORK ASSOCIATED WITH THIS PROJECT.

IF ANY INCONSISTENCIES, DISCREPANCIES, OR CONFLICTS ARE DISCOVERED BETWEEN THE VARIOUS STANDARDS, SPECIFICATIONS, OR LAWS BY GOVERNING AUTHORITIES, AND/OR THESE PLANS AND SPECIFICATIONS, THE MOST STRINGENT STANDARD, SPECIFICATION LAW AND/OR STANDARD SHALL BE BINDING AND APPLICABLE TO THIS PROJECT.

ONLY THOSE DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE USED FOR DETERMINATION OF LOCATION AND SIZES OF PROPOSED IMPROVEMENTS. DO NOT SCALE DRAWINGS. IF ANY DISCREPANCIES ARE DISCOVERED ON THE PLANS OR BETWEEN THE PLANS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN CLARIFICATION OF THE INTENT FROM THE ENGINEER PRIOR TO CONSTRUCTION OR INSTALLATION OF PROPOSED IMPROVEMENTS.

ALL WORK, MATERIALS, AND INSTALLATION SHALL NOT BE DEEMED SATISFACTORY UNTIL SUCH TIME AS ALL APPROVALS ARE OBTAINED FROM THE MUNICIPALITY OR ENTITY HAVING JURISDICTION OVER THE PROJECT.

THE CONTRACTOR SHALL PROCEED AT HIS OWN RISK IN PERFORMING ANY WORK PRIOR TO VERIFYING OR RECEIVING ALL NECESSARY PERMITS FOR THE WORK TO BE DONE.

ALL WORK SHALL CONFORM TO THE LOCAL MUNICIPALITY'S ORDINANCES AND REGULATIONS.

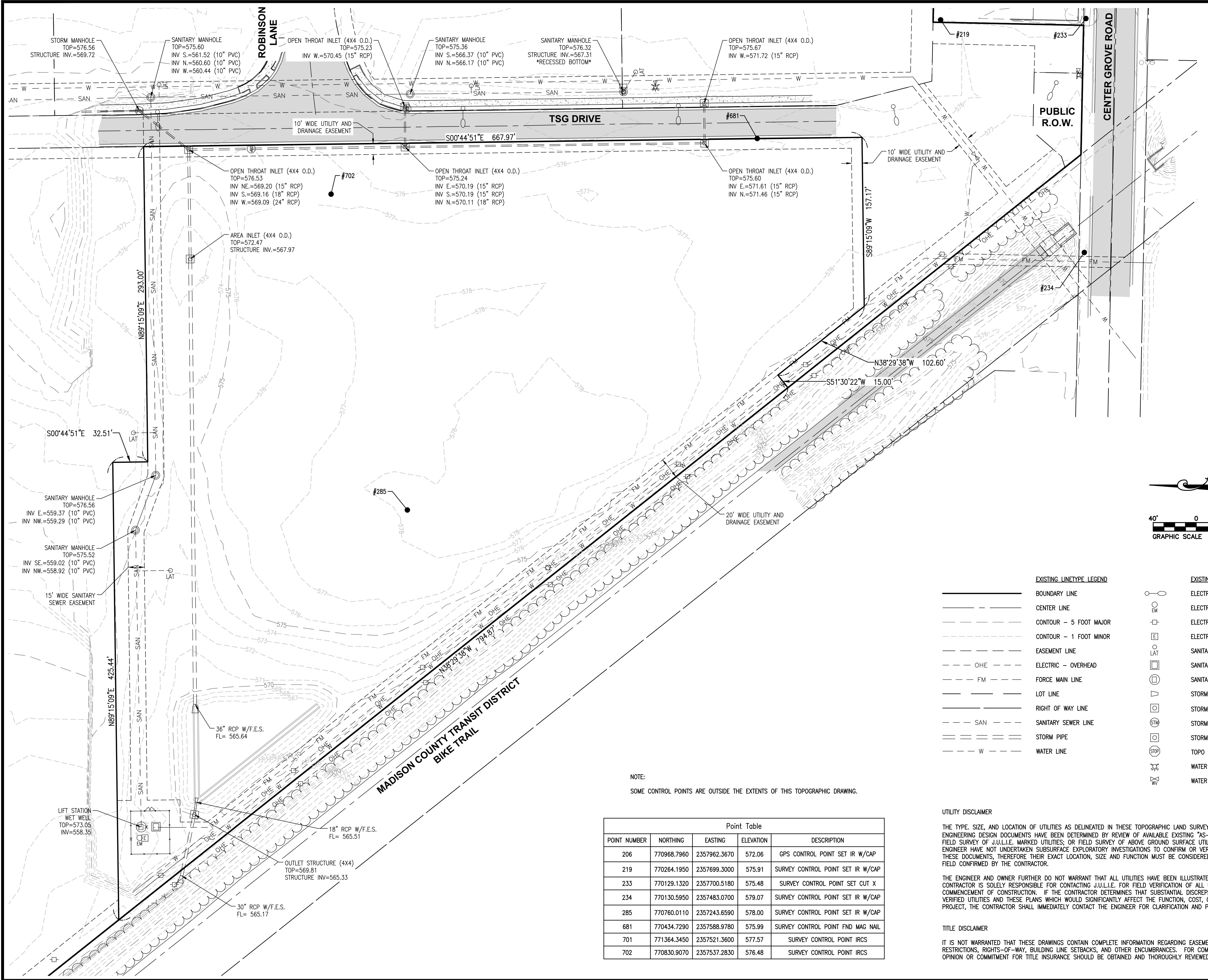
CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE VILLAGE OF GLEN CARBON AT LEAST 48 HOURS PRIOR TO POURING CONCRETE, INSTALLING STORM SEWER, INSTALLING SANITARY SEWER, INSTALLING WATER OR OTHERWISE PROVIDING SUCH ADVANCE NOTICE AS MAY BE REQUIRED

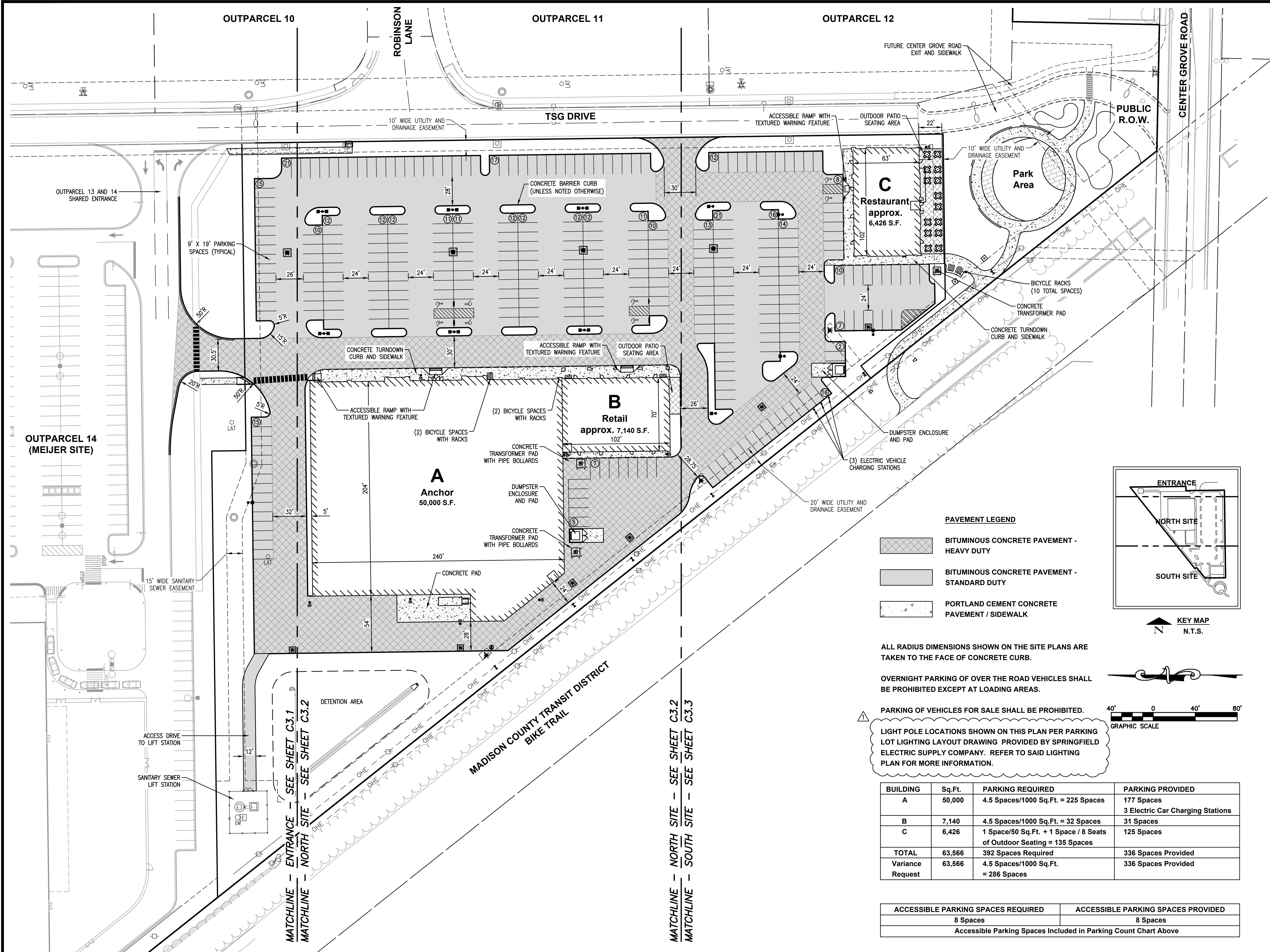
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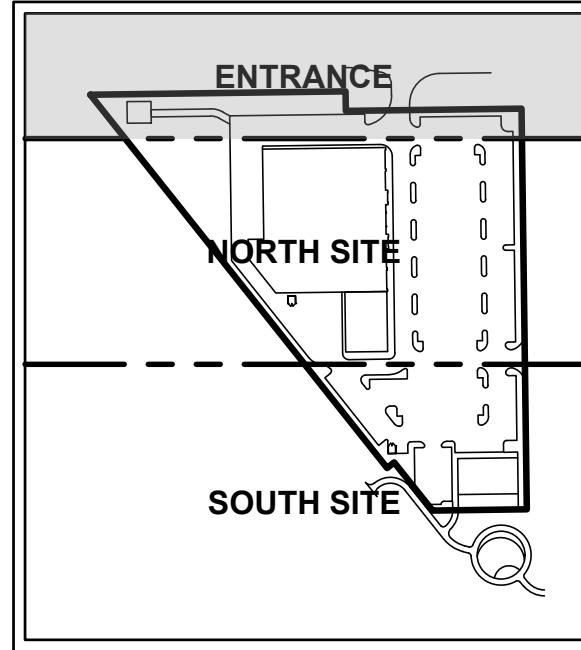
DRAWN BY:	DAB
DESIGNED BY:	DLL
CHECKED BY:	DLL
APPROVED BY:	MJM
PROJECT NO:	D10150464F

PROJECT:	
ORCHARD TOWN CENTER OUTPARCEL 13 VILLAGE OF GLEN CARBON MADISON COUNTY, ILLINOIS	

TITLE:	
EXISTING TOPOGRAPHY	

PRELIMINARY
C2.0






A graphic scale with markings for 20', 0, and 20'. Below the scale, the text 'GRAPHIC SCALE' is printed.

OUTPARCEL 14

This architectural site plan illustrates a shared entrance for a building complex, specifically 'OUTPARCEL 14' and 'TSG DRIVE'. The plan shows a detailed layout of the entrance area, including sidewalks, curbs, gutters, and ramps. Key features include:

- SHARED ENTRANCE (UNDER SEPARATE CONTRACT):** The entrance is located at the intersection of TSG DRIVE and a shared driveway.
- OUTPARCEL 14 SIDEWALK:** A concrete sidewalk on the left side of the entrance.
- CONCRETE SIDEWALK:** A concrete sidewalk on the right side of the entrance.
- ACCESSIBLE RAMP WITH TEXTURED WARNING FEATURE:** A ramp leading from the sidewalk to the entrance, with a height of 6'.
- PAINTED CROSSWALK:** A crosswalk marked with dashed lines.
- TYPE B6.12 CURB AND GUTTER:** Curb and gutter types used along the driveway.
- PAINTED CURB:** A barrier curb separating the driveway from the sidewalk.
- LANDSCAPE/GREENSPACE AREA:** A shaded area between the driveway and the building complex.
- ACCESS DRIVE TO LIFT STATION:** An access drive leading to a lift station, with a height of 12'.
- Dimensions:** Various dimensions are provided for the driveway, sidewalks, and ramps, such as 200' R, 20' R, 50' R, 30', 19', 26', 24', 28', 19', 15', 10', 5', 32', 19', 5', 30', 12', 54', 90', 16', 51', 9' TYP, 30', 15' R, 5' R, 20' R, 15' R, 5' R, 12', 30', R4.13', 15' R, 5' R, 24', 19', 15', 4', 6', 5', 4.13' R, and 4.13' R.
- Labels:** Labels include 'STOP' at the top, 'TSG DRIVE' on the right, and 'STOP' at the top left.

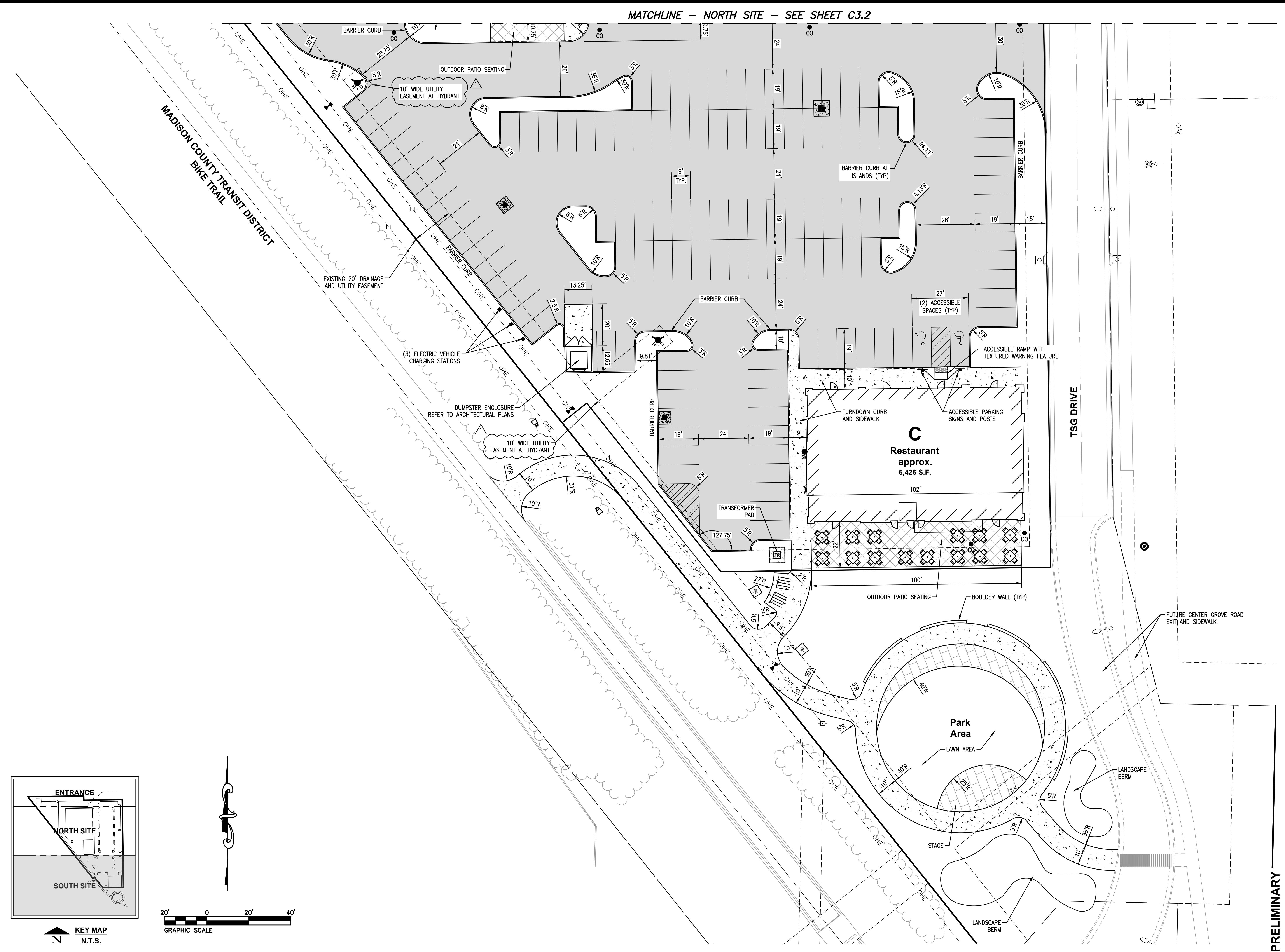
MATCHLINE - NORTH SITE - SEE SHEET C3.2

PRELIMINARY

SITE PLAN ENTRANCE

SITE PLAN ENTRANCE

C3.1



REV.	DATE	DESCRIPTION
▲	8-24-23	VILLAGE OF GLEN CARBON REVIEW
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△		
△		

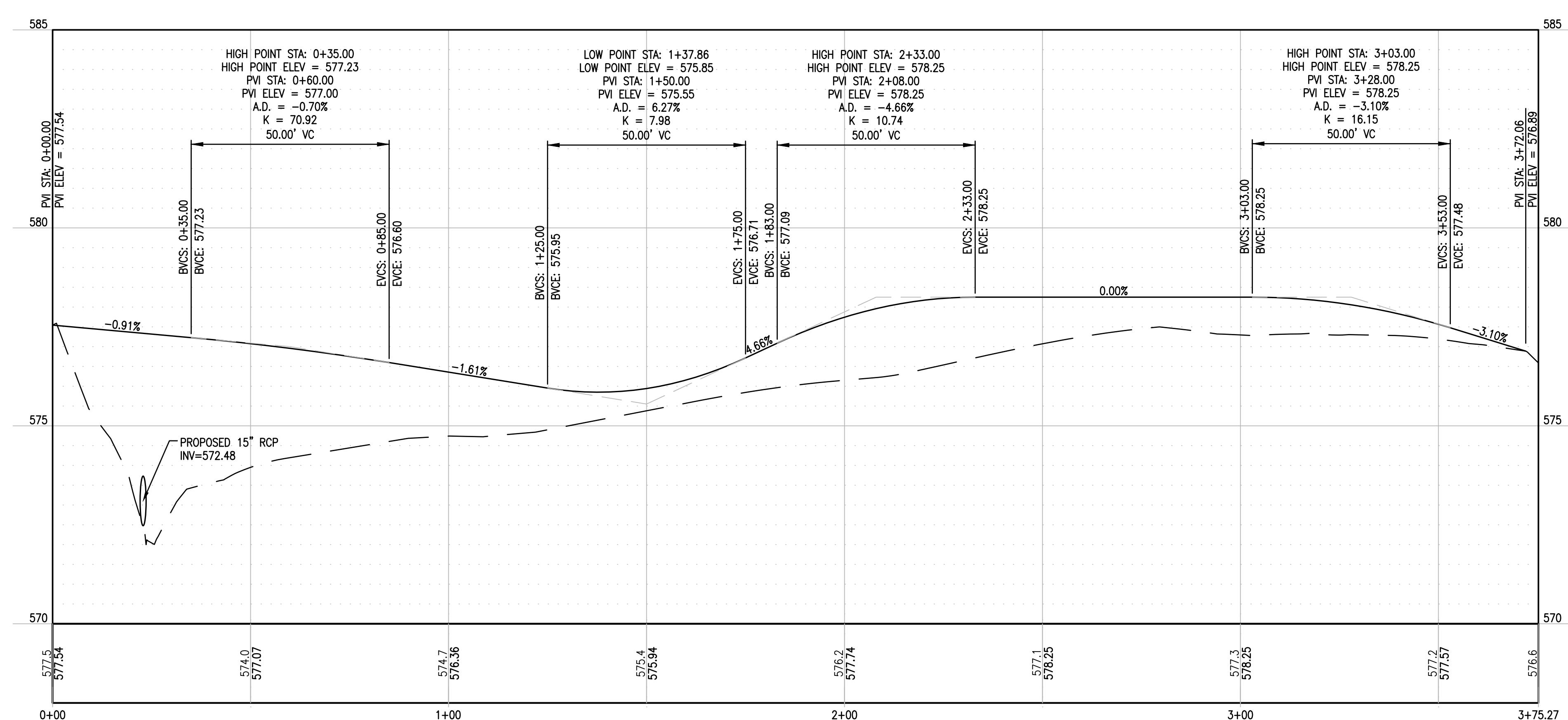
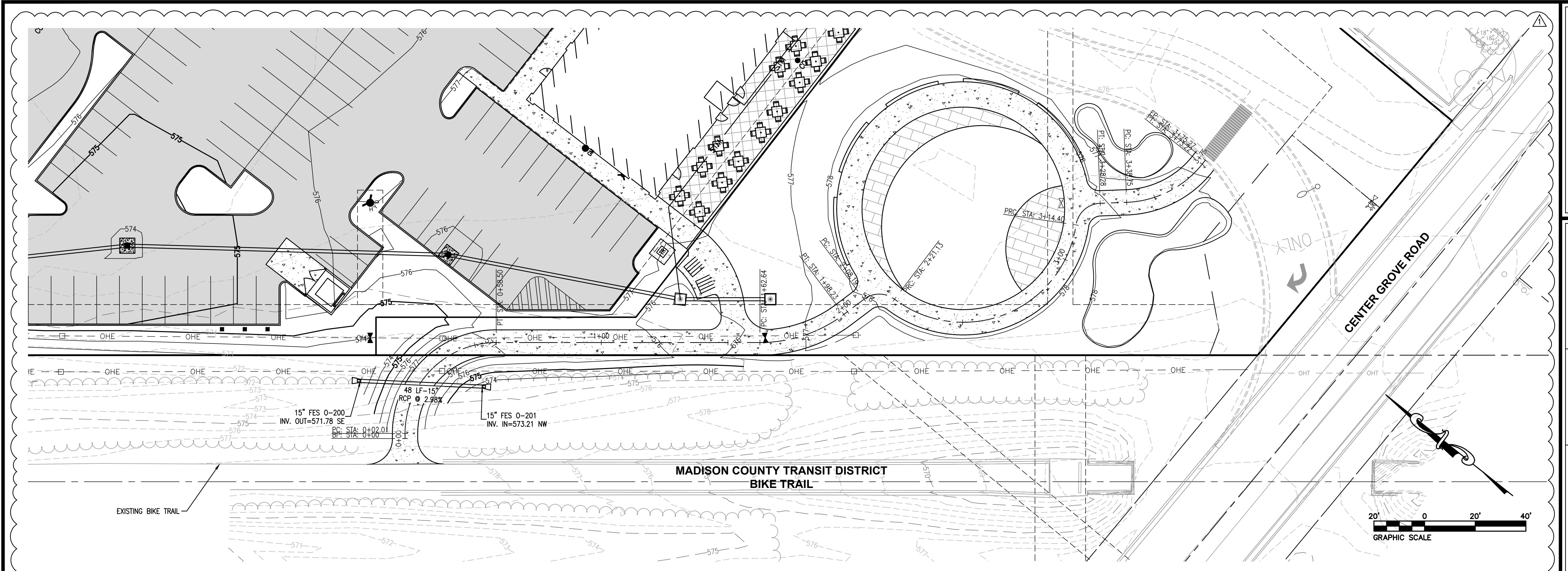
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CHECKED BY: DLL
APPROVED BY: MJM
PROJECT NO: D10150464F

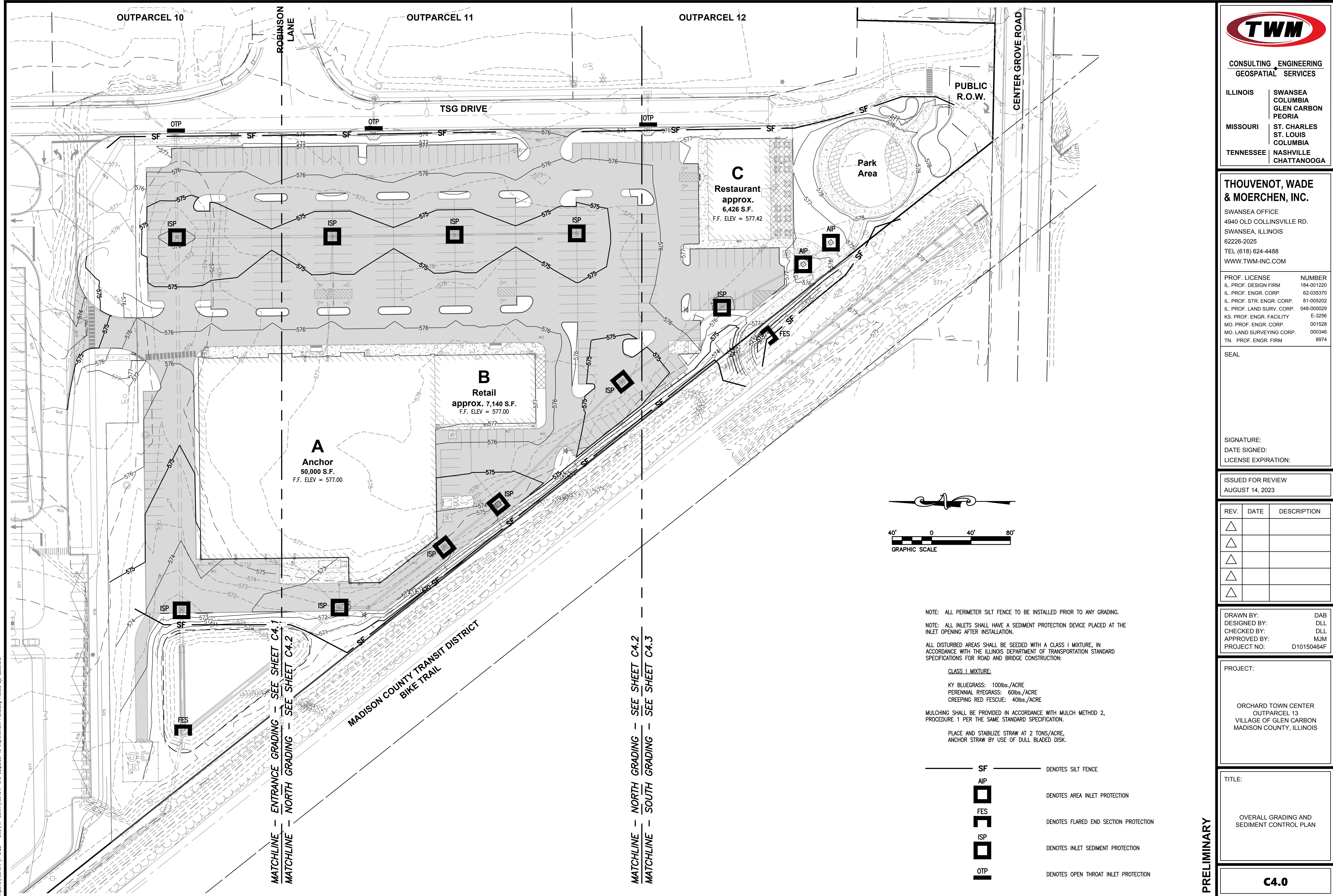
 PROJECT:

ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

 TITLE:

BIKE PATH
PLAN AND PROFILE

C3.4




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62226-2025
TEL (618) 624-4488
WWW.TWM-INC.COM

PROF. LICENSE NUMBER
IL. PROF. DESIGN FIRM 184-001220
IL. PROF. ENGR. CORP. 62-035370
IL. PROF. STR. ENGR. CORP. 81-005202
IL. PROF. LAND SURV. CORP. 048-000029
KS. PROF. ENGR. FACILITY E-3256
MO. PROF. ENGR. CORP. 001528
MO. LAND SURVEYING CORP. 000346
TN. PROF. ENGR. FIRM 8974

SEAL

SIGNATURE:
DATE SIGNED:
LICENSE EXPIRATION:

ISSUED FOR REVIEW
AUGUST 14, 2023

REV.	DATE	DESCRIPTION
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DRAWN BY: DAB
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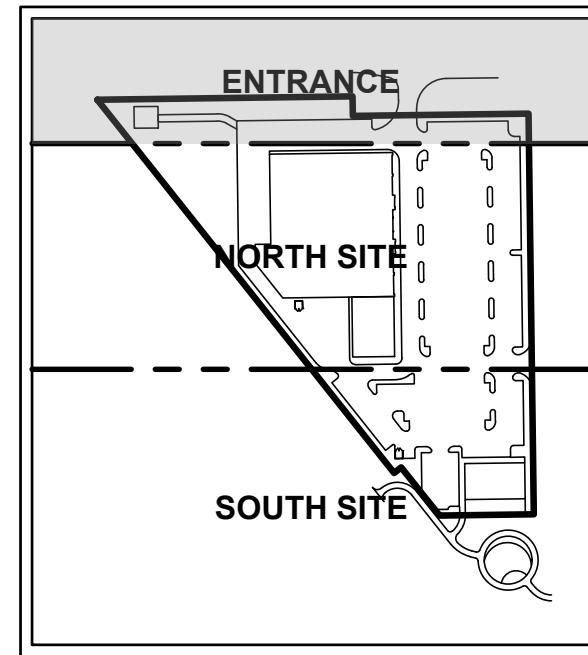
PROJECT:

ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

TITLE:

OVERALL GRADING AND
SEDIMENT CONTROL PLAN

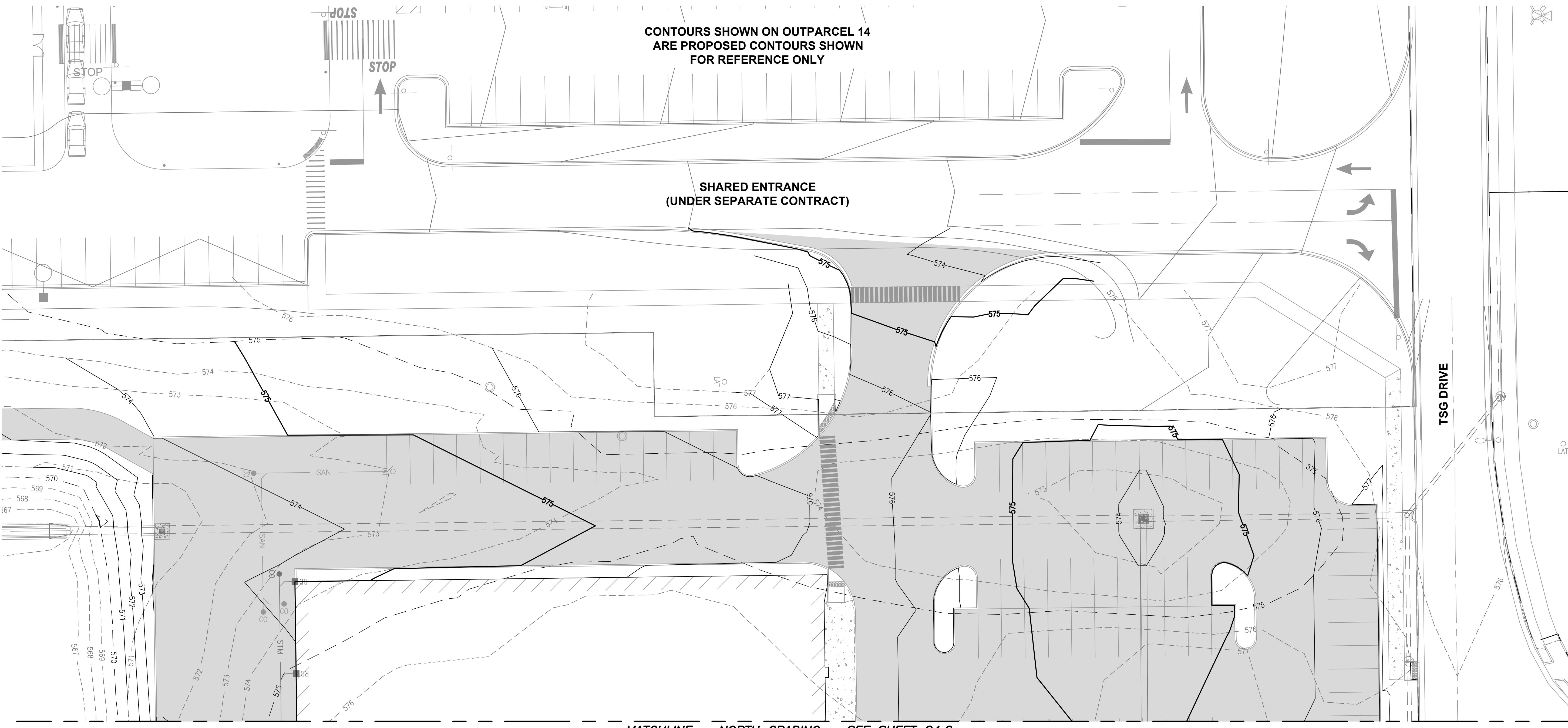
C4.0


 KEY MAP
N.T.S.

 20' 0 20' 40'
GRAPHIC SCALE

OUTPARCEL 14

 CONTOURS SHOWN ON OUTPARCEL 14
ARE PROPOSED CONTOURS SHOWN
FOR REFERENCE ONLY

 SHARED ENTRANCE
(UNDER SEPARATE CONTRACT)

 PRELIMINARY
C4.1

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LICENSE EXPIRATION:

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CHECKED BY: DLL
APPROVED BY: MJM
PROJECT NO: D10150464F

 PROJECT:

ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

 TITLE:

GRADING PLAN
ENTRANCE



CONSULTING ENGINEERING
GEOSPATIAL SERVICES

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DRAWN BY: DAB
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PROJECT NO: D10150464F

PROJECT:

ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

TITLE:

GRADING PLAN
NORTH

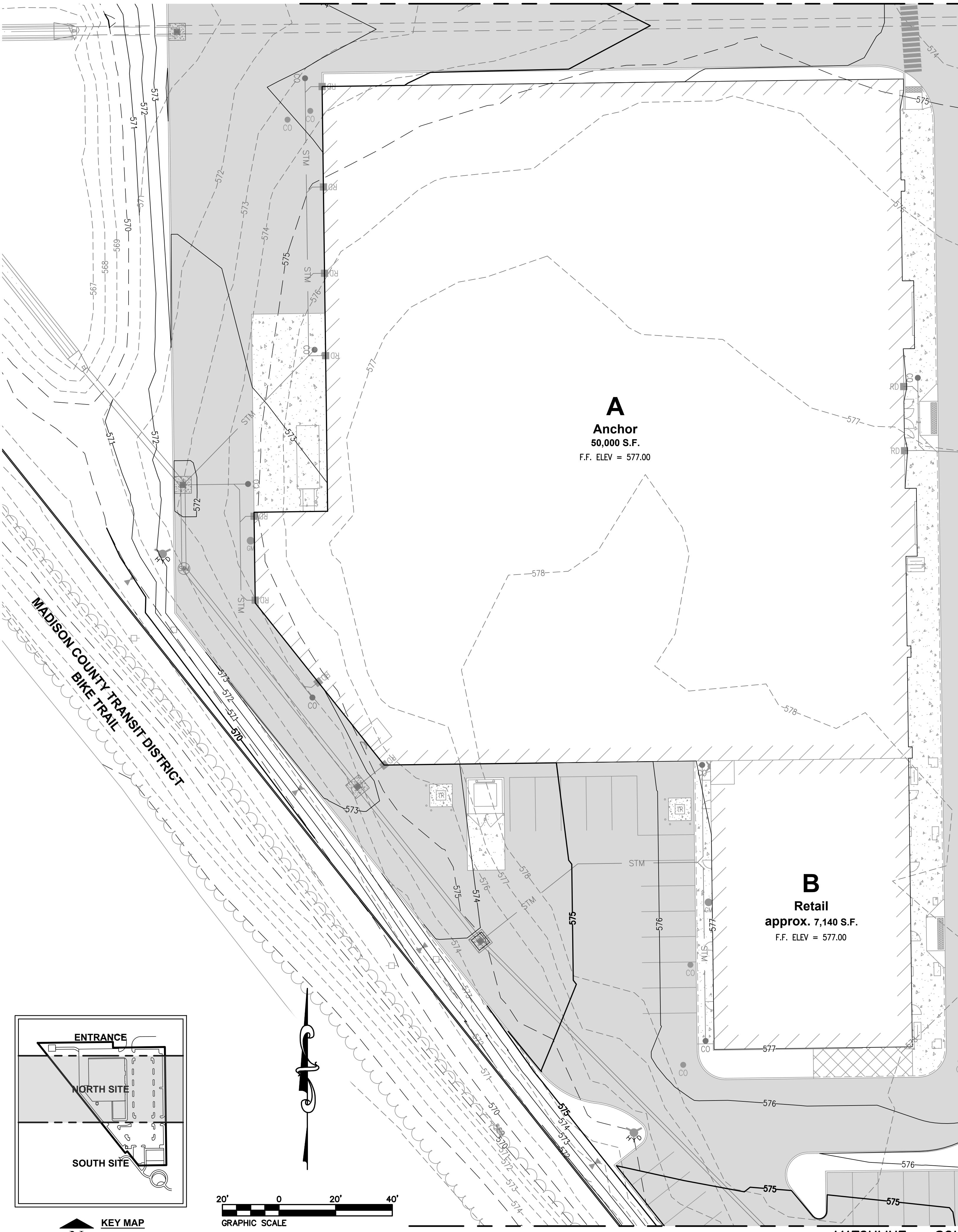
MATCHLINE - ENTRANCE GRADING - SEE SHEET C4.1

MATCHLINE - SOUTH GRADING - SEE SHEET C4.3

PRELIMINARY
C4.2

A
Anchor
50,000 S.F.
F.F. ELEV = 577.00

B
Retail
approx. 7,140 S.F.
F.F. ELEV = 577.00



REV.	DATE	DESCRIPTION
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 DRAWN BY: DAB
DESIGNED BY: DLL
CHECKED BY: DLL
APPROVED BY: MJM
PROJECT NO: D10150464F

PROJECT:

 ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

TITLE:

 GRADING PLAN
SOUTH

PRELIMINARY

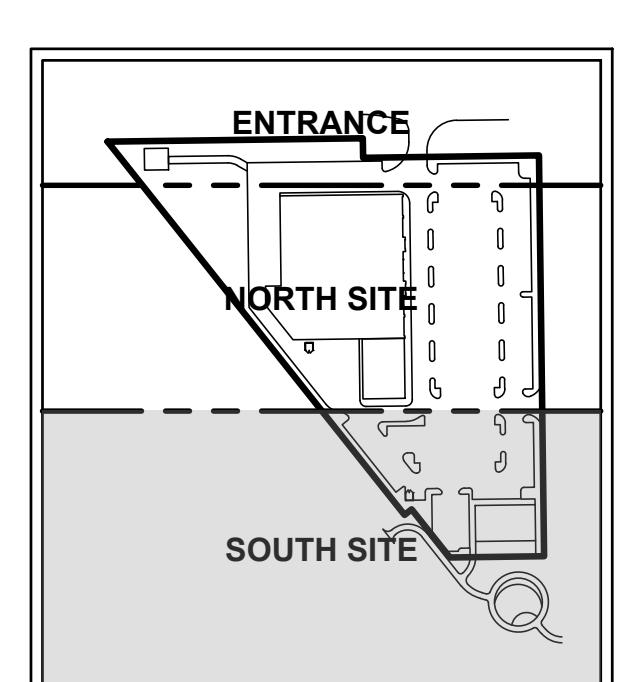
MATCHLINE - NORTH GRADING - SEE SHEET C4.2

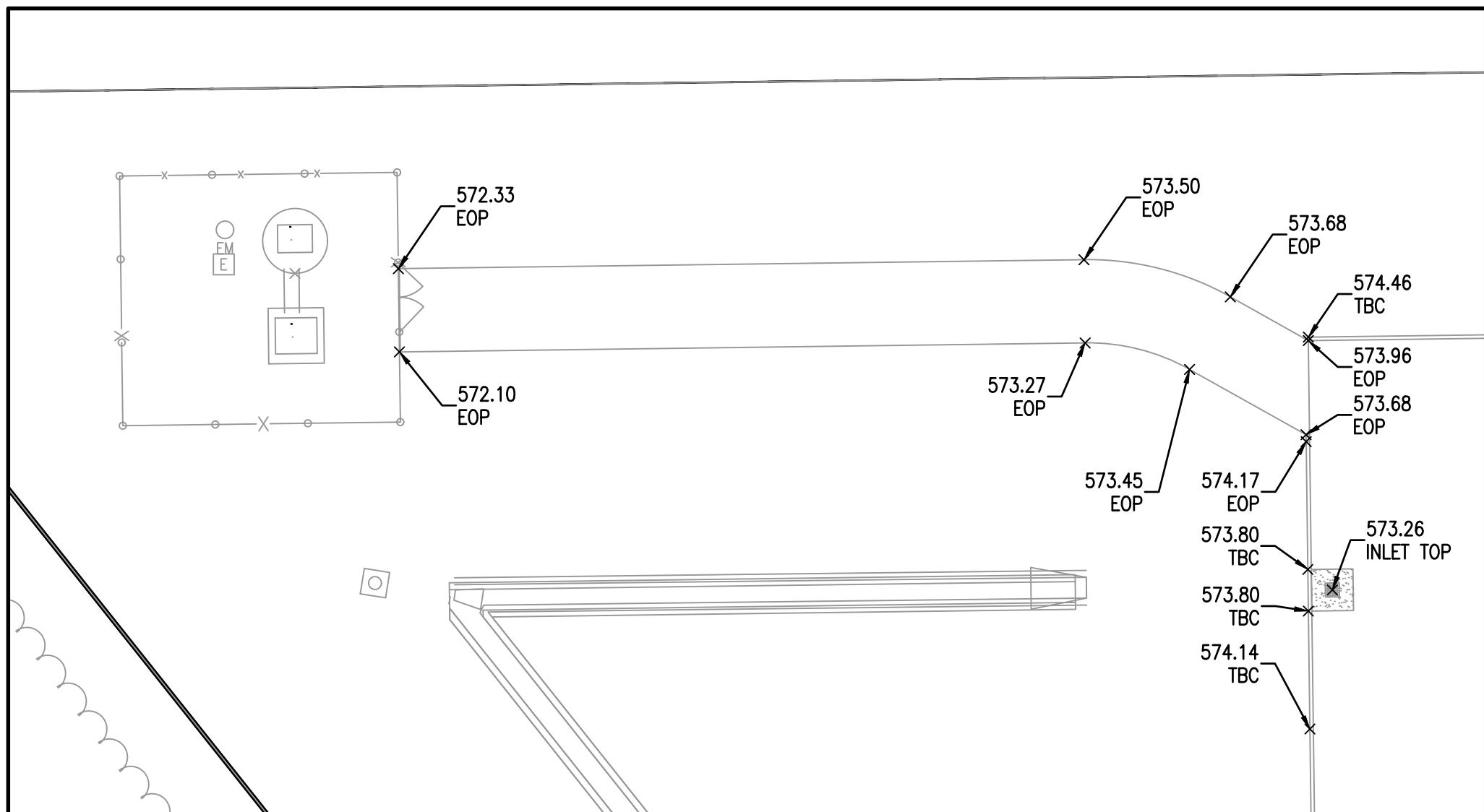
 MADISON COUNTY TRANSIT DISTRICT
BIKE TRAIL

 C
Restaurant
approx.
6,426 S.F.
F.F. ELEV = 577.42

 Park
Area

TSG DRIVE

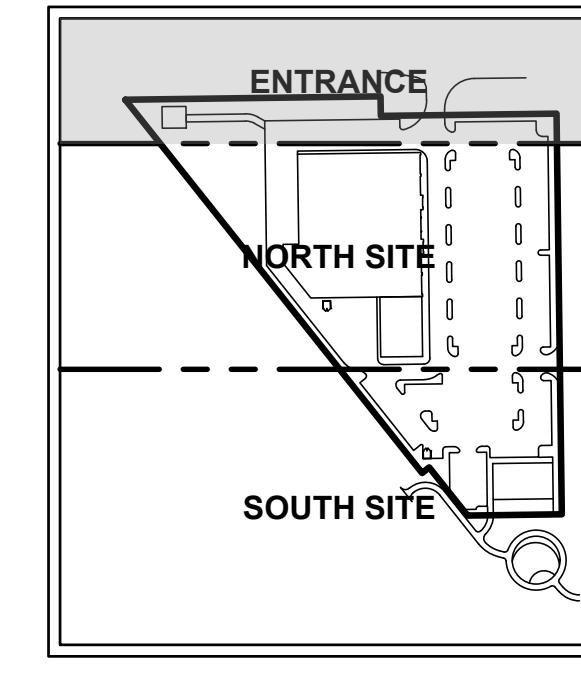

 20' 0' 20' 40'
GRAPHIC SCALE



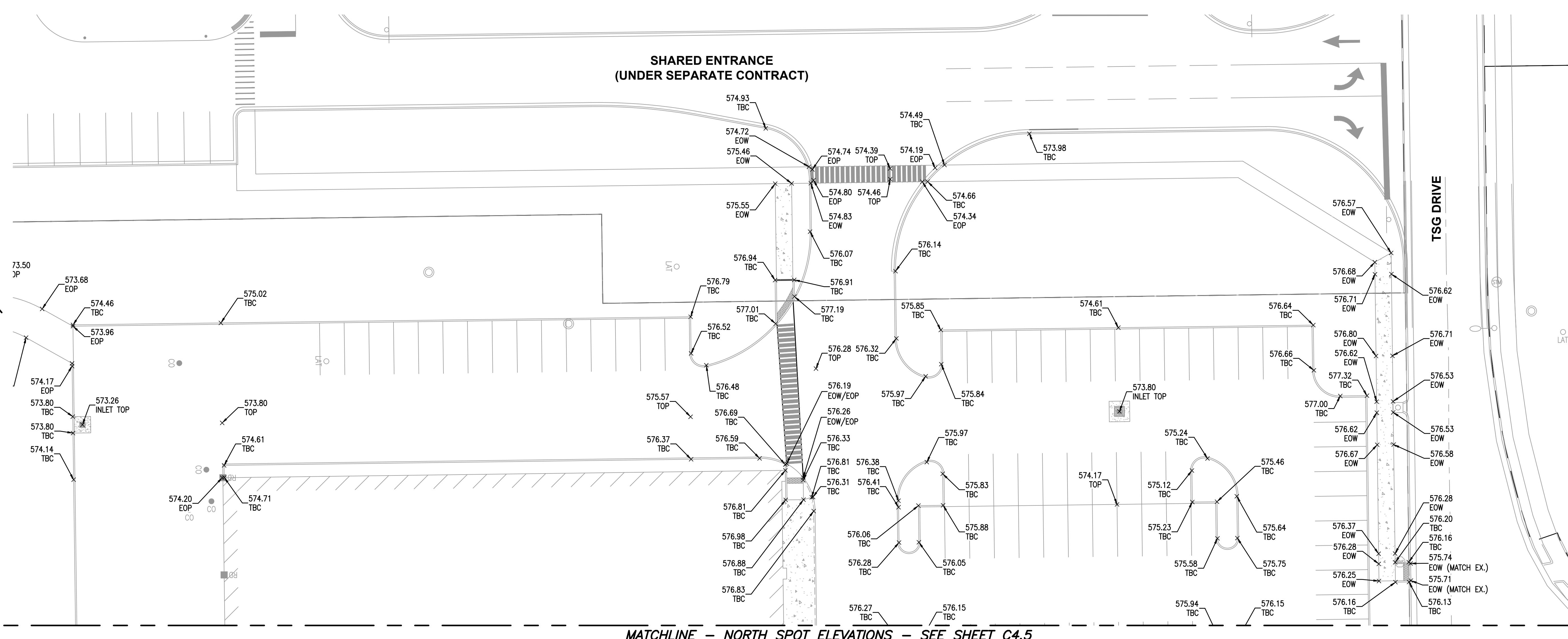
LIFT STATION ACCESS ROAD

OUTPARCEL 14

<u>SPOT ELEVATION ABBREVIATIONS:</u>	
EOP	EDGE OF PAVEMENT
EOW	EDGE OF WALK
TBC	TOP BACK OF CURB
TOP	TOP OF PAVEMENT (FIN GRADE)



A graphic scale bar consisting of a horizontal line with vertical tick marks. The text "20'" is placed above the first tick mark on the left, "0" is placed in the center, and "20'" is placed above the last tick mark on the right. Below the scale bar, the text "GRAPHIC SCALE" is printed in a bold, sans-serif font.



MATCHLINE - NORTH SPOT ELEVATIONS - SEE SHEET C4.5

1

SPOT ELEVATION PLAN ENTRANCE

C4.4



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IL. PROF. STR. ENGR. CORP.	81-005202
IL. PROF. LAND SURV. CORP.	048-000029
KS. PROF. ENGR. FACILITY	E-3256
MO. PROF. ENGR. CORP.	001528
MO. LAND SURVEYING CORP.	000346
TN. PROF. ENGR. FIRM	8974

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DATE SIGNED:
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AUGUST 14, 2023

REV.	DATE	DESCRIPTION
		
		
		
		
		

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DESIGNED BY: DLL
CHECKED BY: DLL
APPROVED BY: MJM
PROJECT NO: D10150464F

PROJECT:

ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

TITLE:

SPOT ELEVATION PLAN ENTRANCE

REV.	DATE	DESCRIPTION
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 DRAWN BY: DAB
DESIGNED BY: DLL
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PROJECT:

 ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

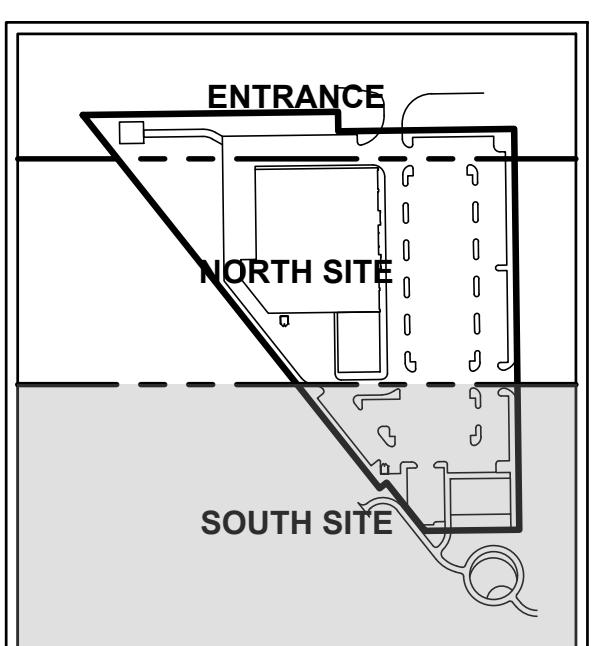
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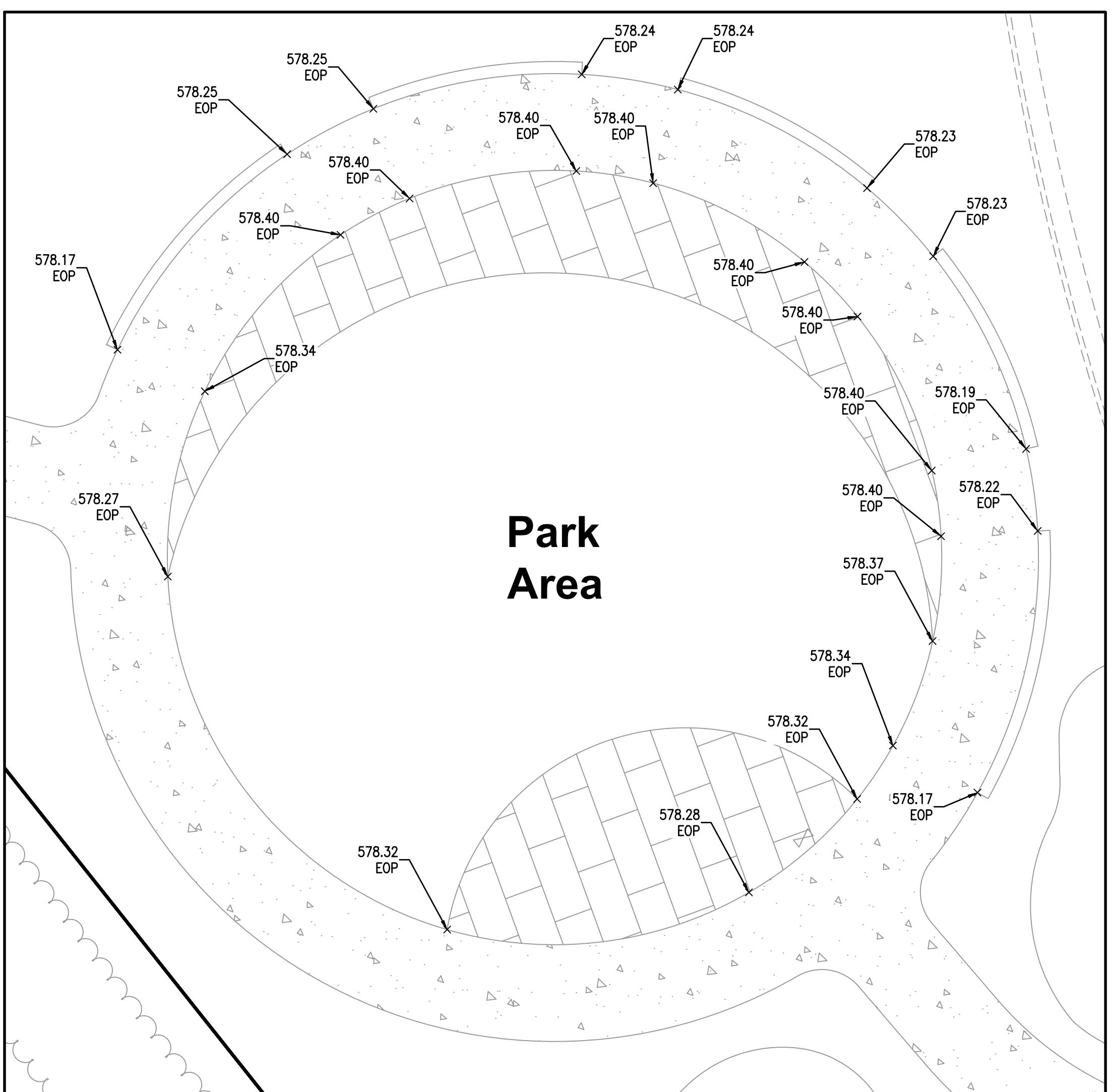
 SPOT ELEVATION PLAN
SOUTH

PRELIMINARY

C4.6

MATCHLINE - NORTH SPOT ELEVATION - SEE SHEET C4.5


 KEY MAP
N.T.S.

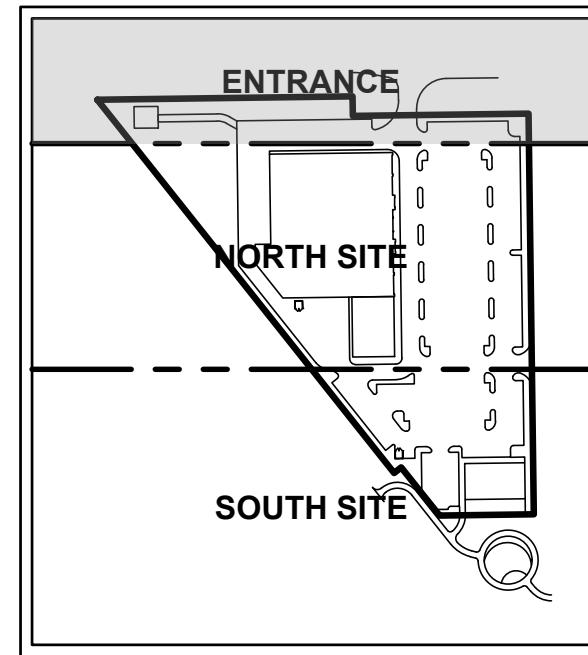
 SPOT ELEVATION ABBREVIATIONS:
EOP EDGE OF PAVEMENT
EOW EDGE OF WALK
TBC TOP BACK OF CURB
TOG TOP OF GROUND
TOP TOP OF PAVEMENT
WALL TOP OF WALL

 20' 0 20' 40'
GRAPHIC SCALE

 C
Restaurant
approx.
6,426 S.F.
F.F. ELEV = 577.42

 Park
Area

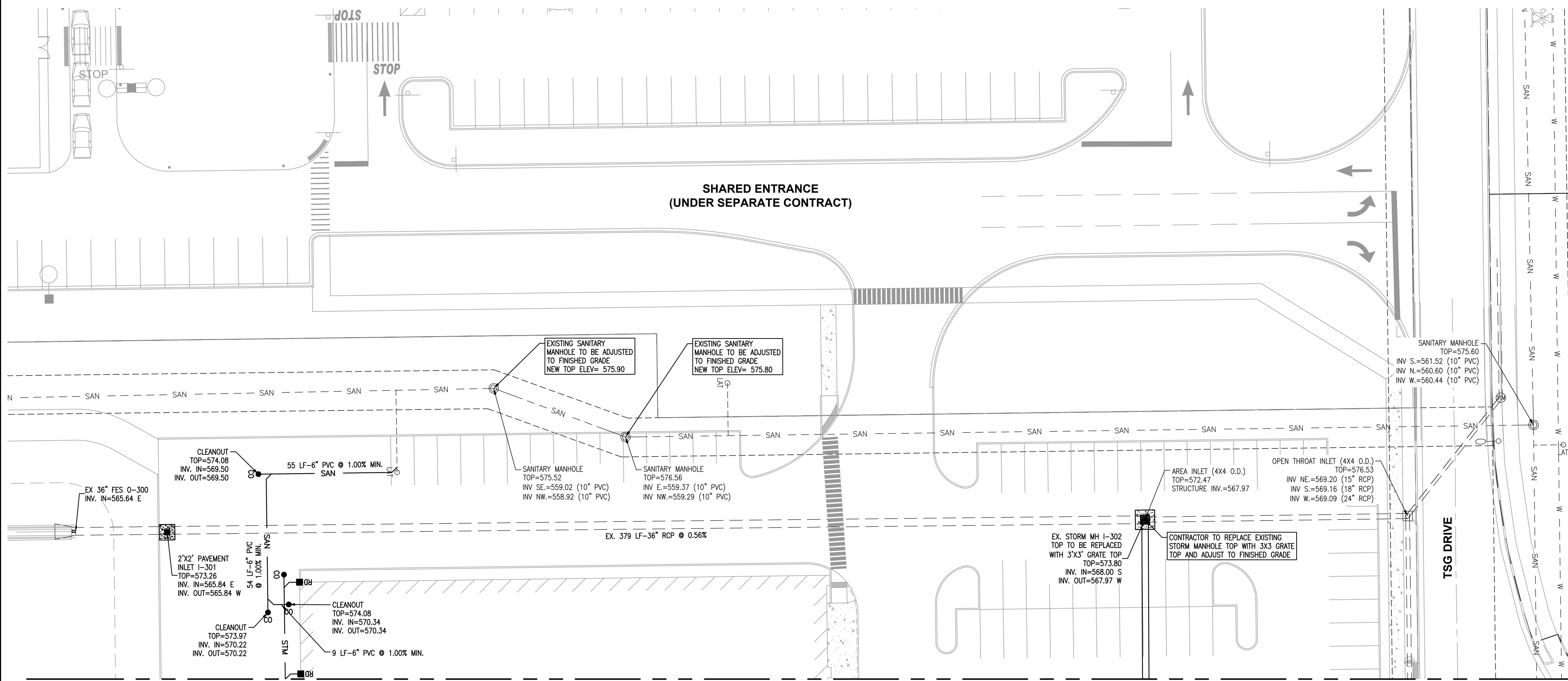
PRELIMINARY

Users\DEBECHE~1\AppData\Local\Temp\AcPublish_14604\150464F-0TC Outparcel 13 Improvement Plans.dwg Plotted By: dbecherer


 KEY MAP
N.T.S.

 20' 0 20' 40'
GRAPHIC SCALE

OUTPARCEL 14



PRELIMINARY

C5.1

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TN. PROF. ENGR. FIRM 8974

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CHECKED BY: DLL
APPROVED BY: MJM
PROJECT NO: D10150464F

 PROJECT:

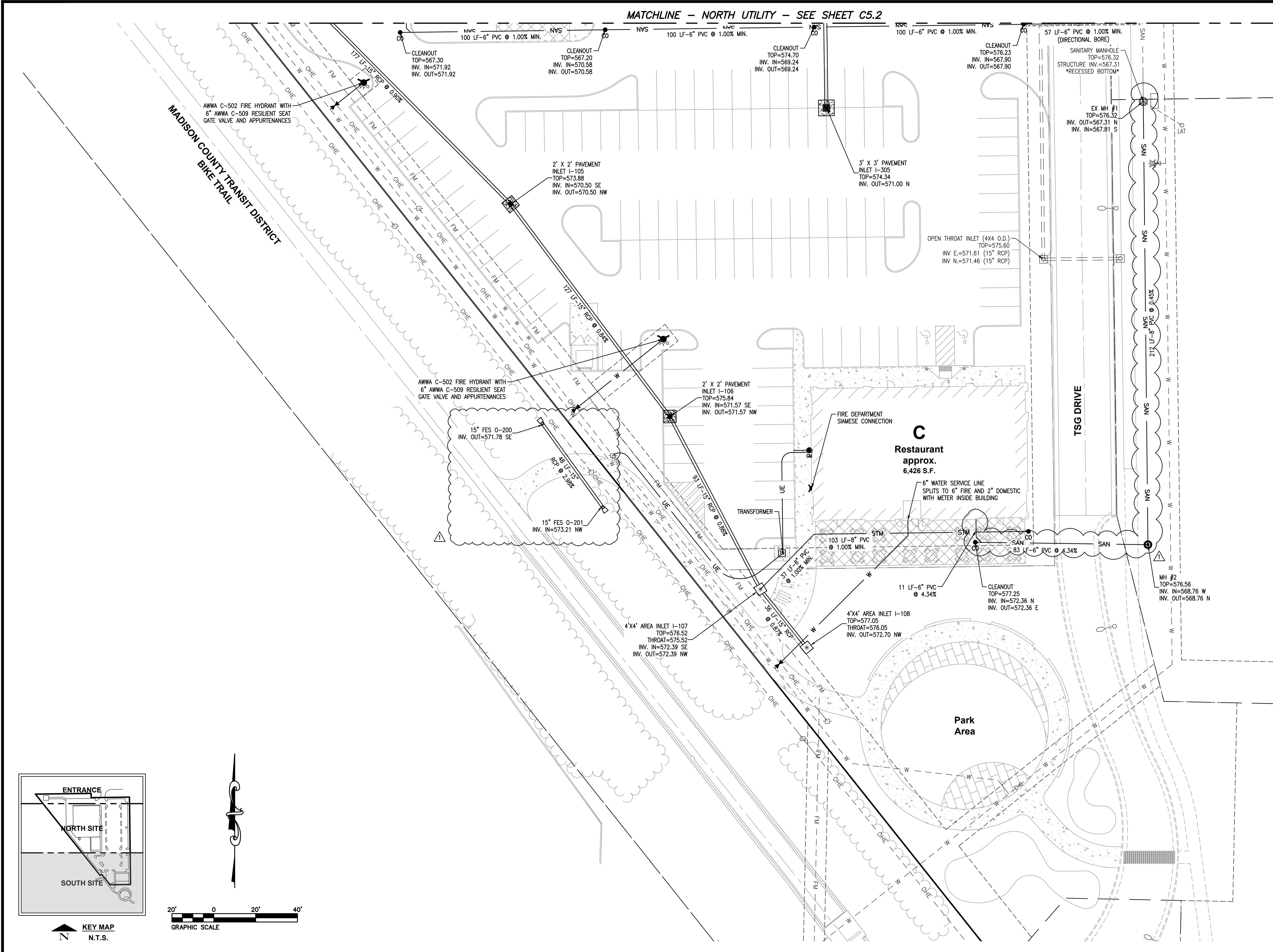
ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

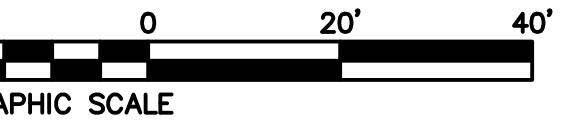
 TITLE:

UTILITY PLAN
ENTRANCE

MATCHLINE – ENTRANCE UTILITY – SEE SHEET C5.1

CONSULTING ENGINEERING GEOSPATIAL SERVICES																			
ILLINOIS	SWANSEA COLUMBIA GLEN CARBON PEORIA																		
MISSOURI	ST. CHARLES ST. LOUIS COLUMBIA																		
TENNESSEE	NASHVILLE CHATTANOOGA																		
<p>THOUVENOT, WADE & MOERCHEN, INC.</p> <p>SWANSEA OFFICE 4940 OLD COLLINSVILLE RD. SWANSEA, ILLINOIS 62226-2025 TEL (618) 624-4488 WWW.TWM-INC.COM</p>																			
<table border="1"> <thead> <tr> <th>PROF. LICENSE</th> <th>NUMBER</th> </tr> </thead> <tbody> <tr> <td>IL. PROF. DESIGN FIRM</td> <td>184-001220</td> </tr> <tr> <td>IL. PROF. ENGR. CORP.</td> <td>62-035370</td> </tr> <tr> <td>IL. PROF. STR. ENGR. CORP.</td> <td>81-005202</td> </tr> <tr> <td>IL. PROF. LAND SURV. CORP.</td> <td>048-000029</td> </tr> <tr> <td>KS. PROF. ENGR. FACILITY</td> <td>E-3256</td> </tr> <tr> <td>MO. PROF. ENGR. CORP.</td> <td>001528</td> </tr> <tr> <td>MO. LAND SURVEYING CORP.</td> <td>000346</td> </tr> <tr> <td>TN. PROF. ENGR. FIRM</td> <td>8974</td> </tr> </tbody> </table>		PROF. LICENSE	NUMBER	IL. PROF. DESIGN FIRM	184-001220	IL. PROF. ENGR. CORP.	62-035370	IL. PROF. STR. ENGR. CORP.	81-005202	IL. PROF. LAND SURV. CORP.	048-000029	KS. PROF. ENGR. FACILITY	E-3256	MO. PROF. ENGR. CORP.	001528	MO. LAND SURVEYING CORP.	000346	TN. PROF. ENGR. FIRM	8974
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SEAL																			
<p>SIGNATURE: DATE SIGNED: LICENSE EXPIRATION:</p>																			
<p>ISSUED FOR REVIEW AUGUST 14, 2023</p>																			
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1	8-24-23	VILLAGE OF GLEN CARBON REVIEW																	
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DRAWN BY: DAB																			
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APPROVED BY: MJM																			
PROJECT NO: D10150464F																			
PROJECT: ORCHARD TOWN CENTER OUTPARCEL 13 VILLAGE OF GLEN CARBON MADISON COUNTY, ILLINOIS																			
TITLE: UTILITY PLAN NORTH																			




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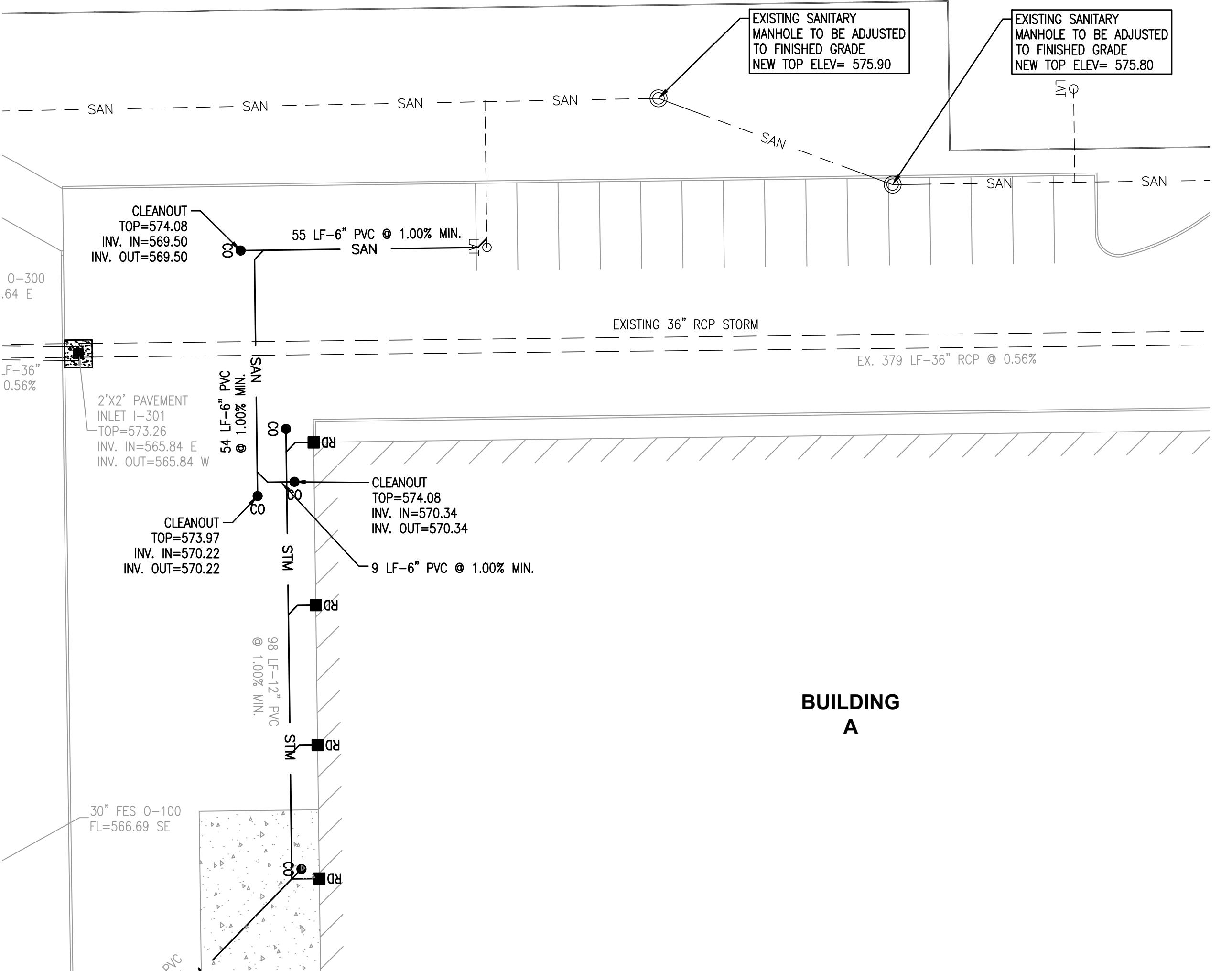
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DESIGNED BY: DLL
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APPROVED BY: MJM
PROJECT NO: D10150464F

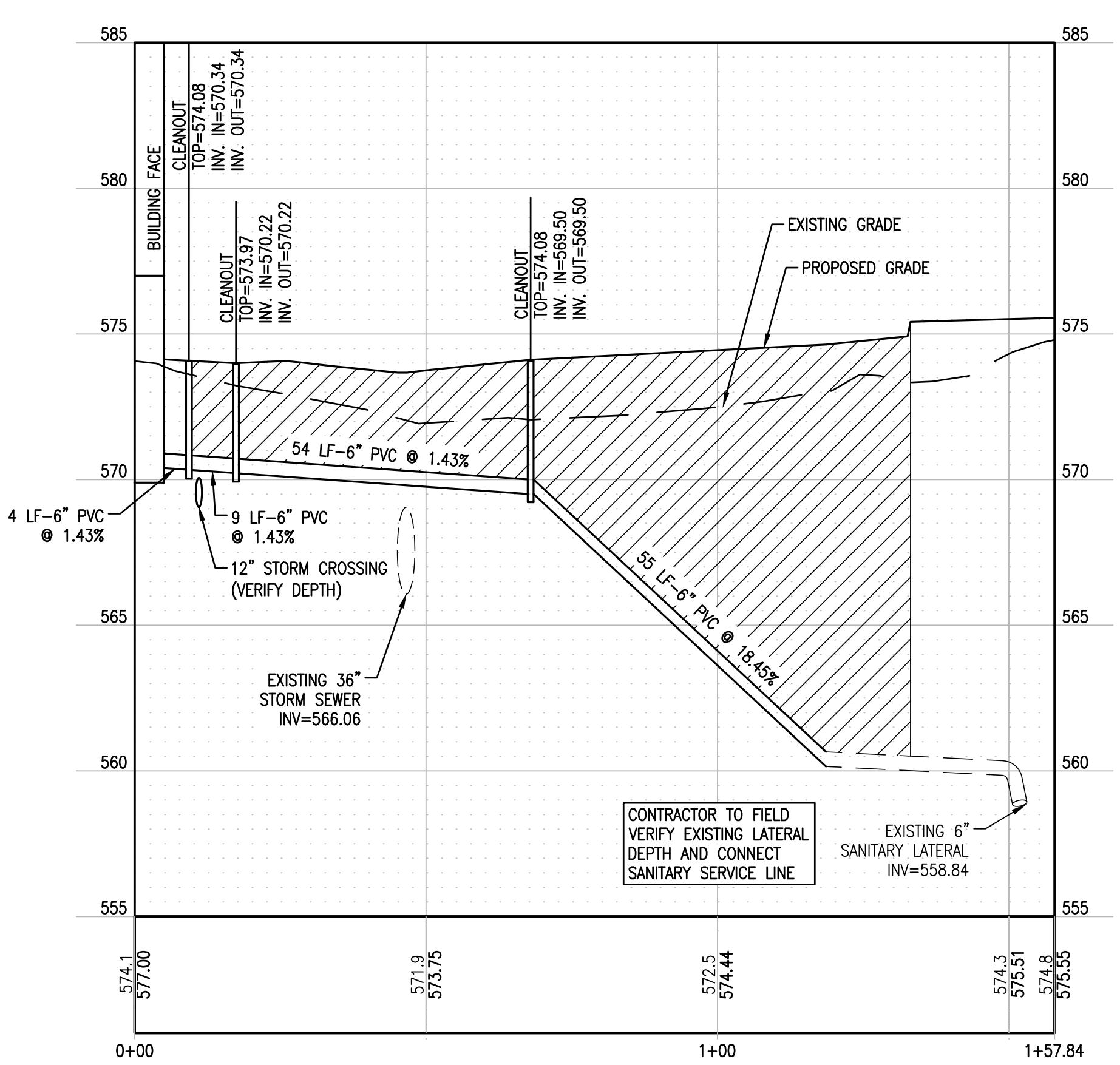
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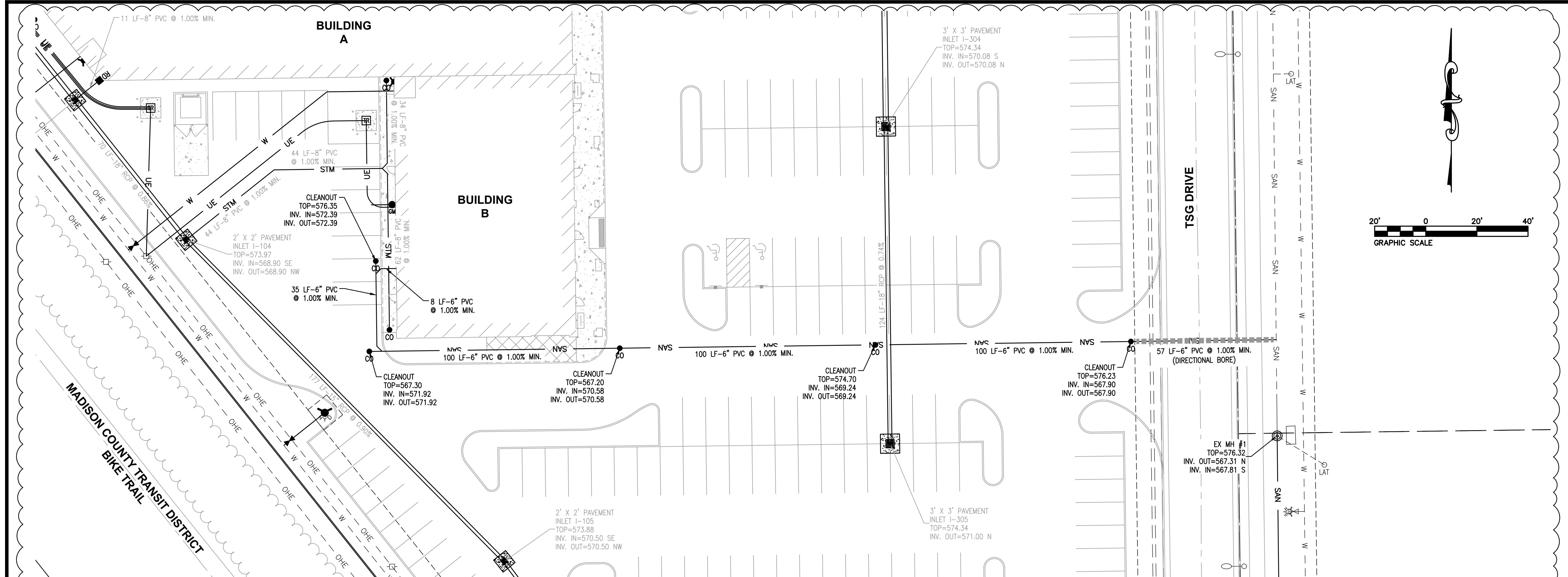
ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

 TITLE:

SANITARY SEWER SERVICE
PLAN AND PROFILE
BUILDING A


BUILDING A SANITARY SERVICE (0+00.00 - 1+57.84)





The logo for TWM (Twin Motor) is located in the top right corner. It features the letters 'TWM' in a bold, black, sans-serif font, enclosed within a thick, red, horizontal oval border.

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**COLUMBIA
GLEN CARBON
TECHNICAL**

MISSOURI | ST. CHARLES

ST. LOUIS
COLUMBIA

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WWW.TWM-INC.COM

PROF. LICENSE	NUMBER
IL. PROF. DESIGN FIRM	184-001220
IL. PROF. ENGR. CORP.	62-035370
IL. PROF. STR. ENGR. CORP.	81-005202
IL. PROF. LAND SURV. CORP.	048-000029
KS. PROF. ENGR. FACILITY	E-3256
MO. PROF. ENGR. CORP.	001528
MO. LAND SURVEYING CORP.	000346
TN. PROF. ENGR. FIRM	8974

SEAI

SIGNATURE:
DATE SIGNED:
LICENSE EXPIRATION:

ISSUED FOR REVIEW
AUGUST 14, 2023

REV.	DATE	DESCRIPTION
1	8-24-23	VILLAGE OF GLEN CARBON REVIEW

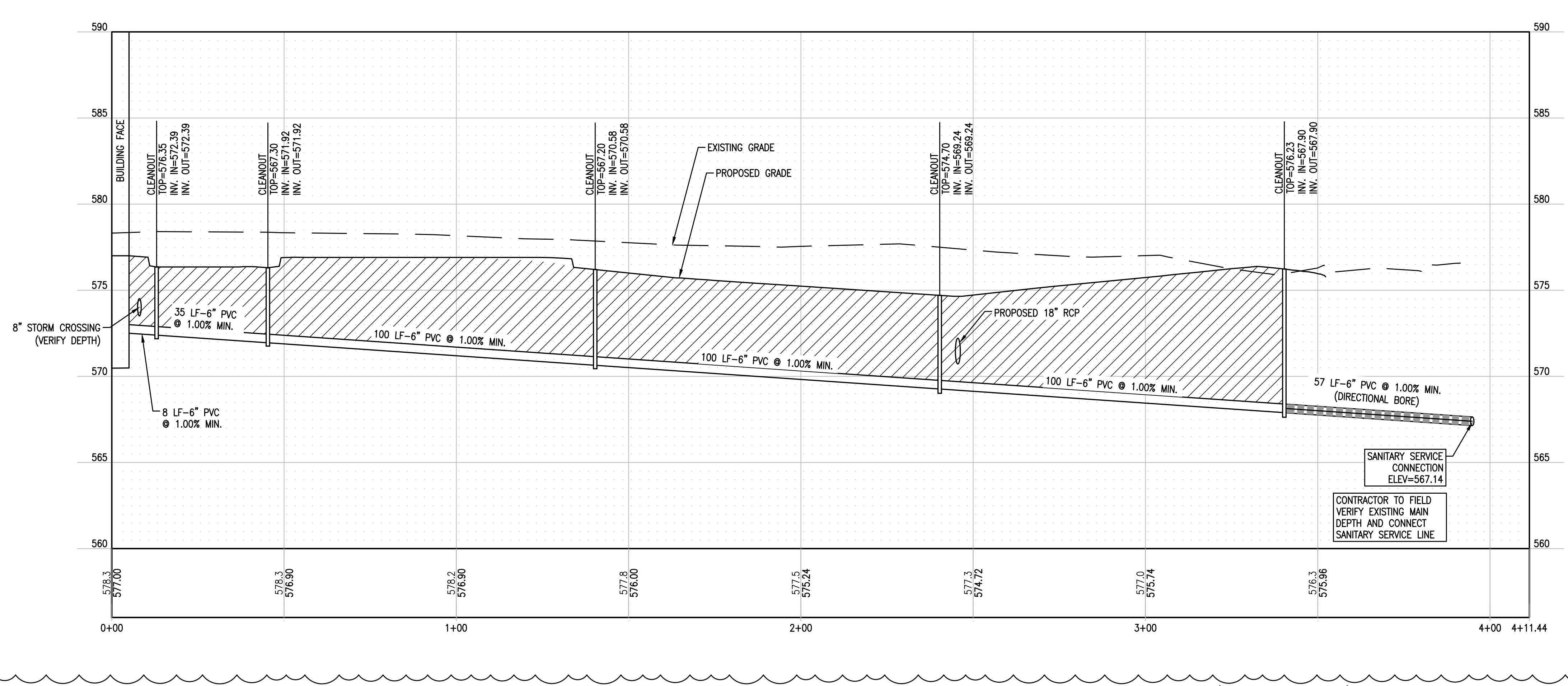
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DESIGNED BY: DLL
CHECKED BY: DLL
APPROVED BY: MJM
PROJECT NO: D10150464E

PROJECT:
ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

TITLE:

**SANITARY SEWER SERVICE
PLAN AND PROFILE
BUILDING B**

C5.5



PRELIMINARY



THOUVENOT, WADE & MOERCHEN, INC.

SWANSEA OFFICE
4940 OLD COLLINSVILLE RD.
SWANSEA, ILLINOIS
62226-2025
TEL (618) 624-4488
WWW.TWM-INC.COM

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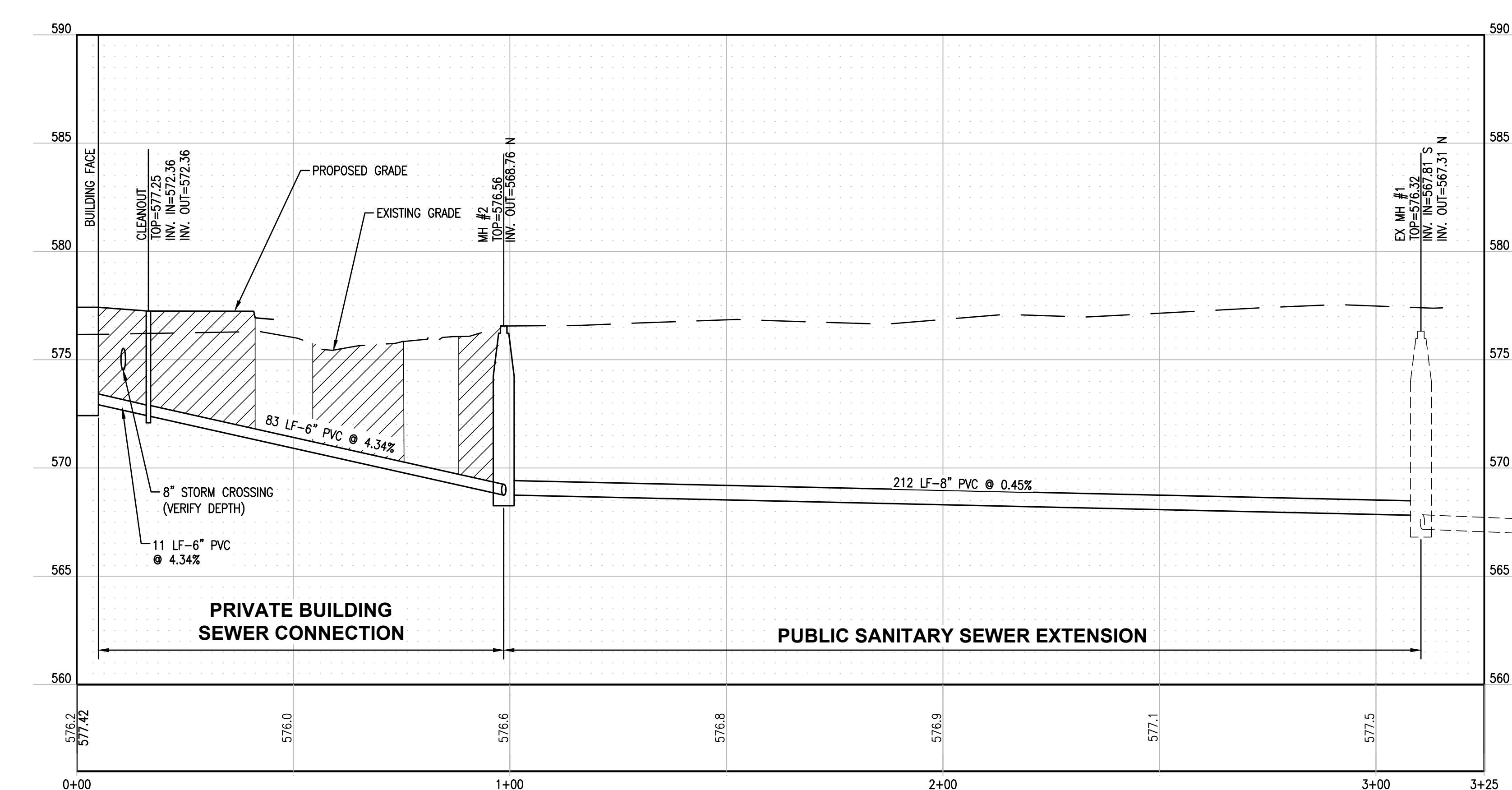
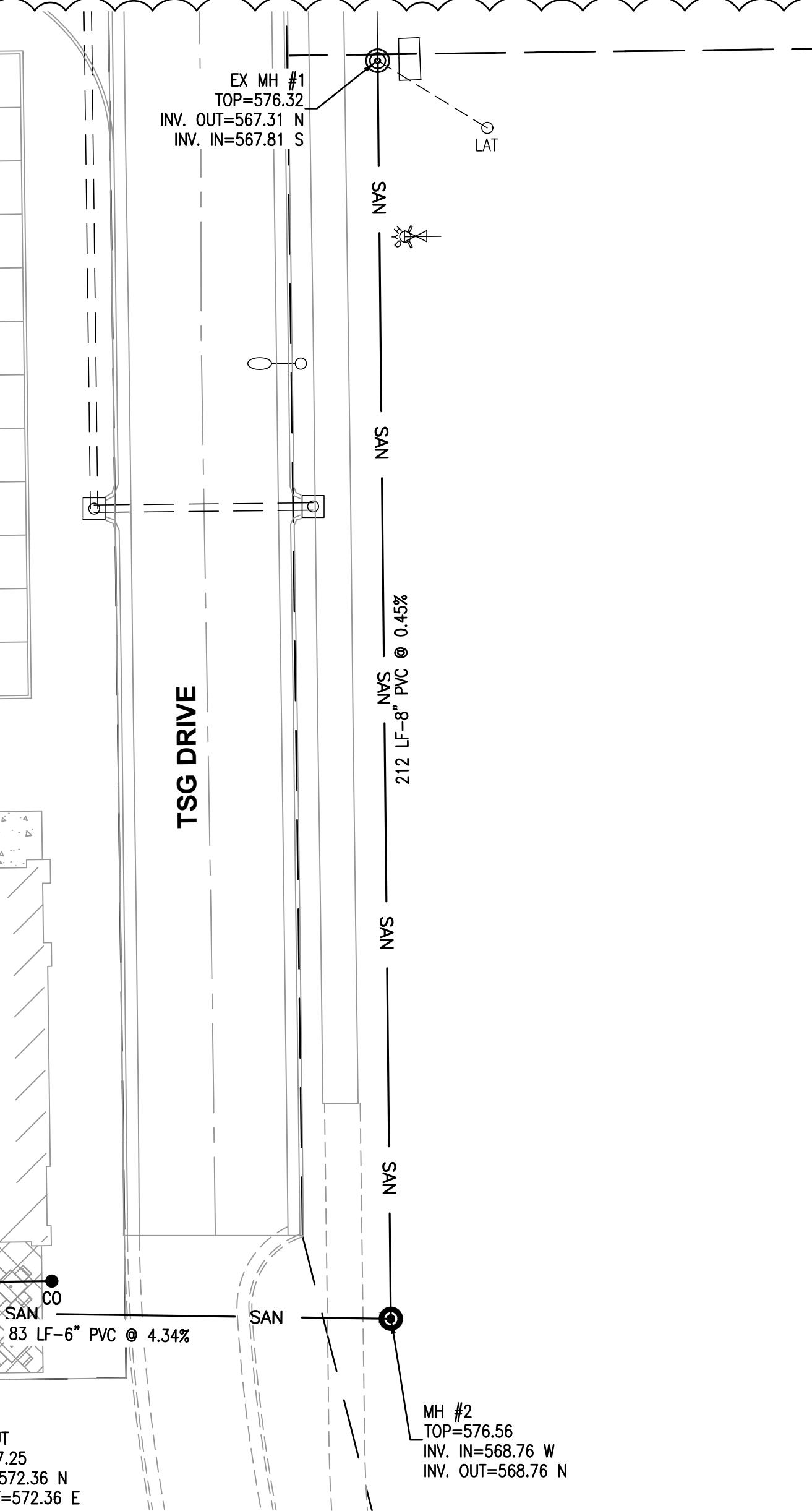
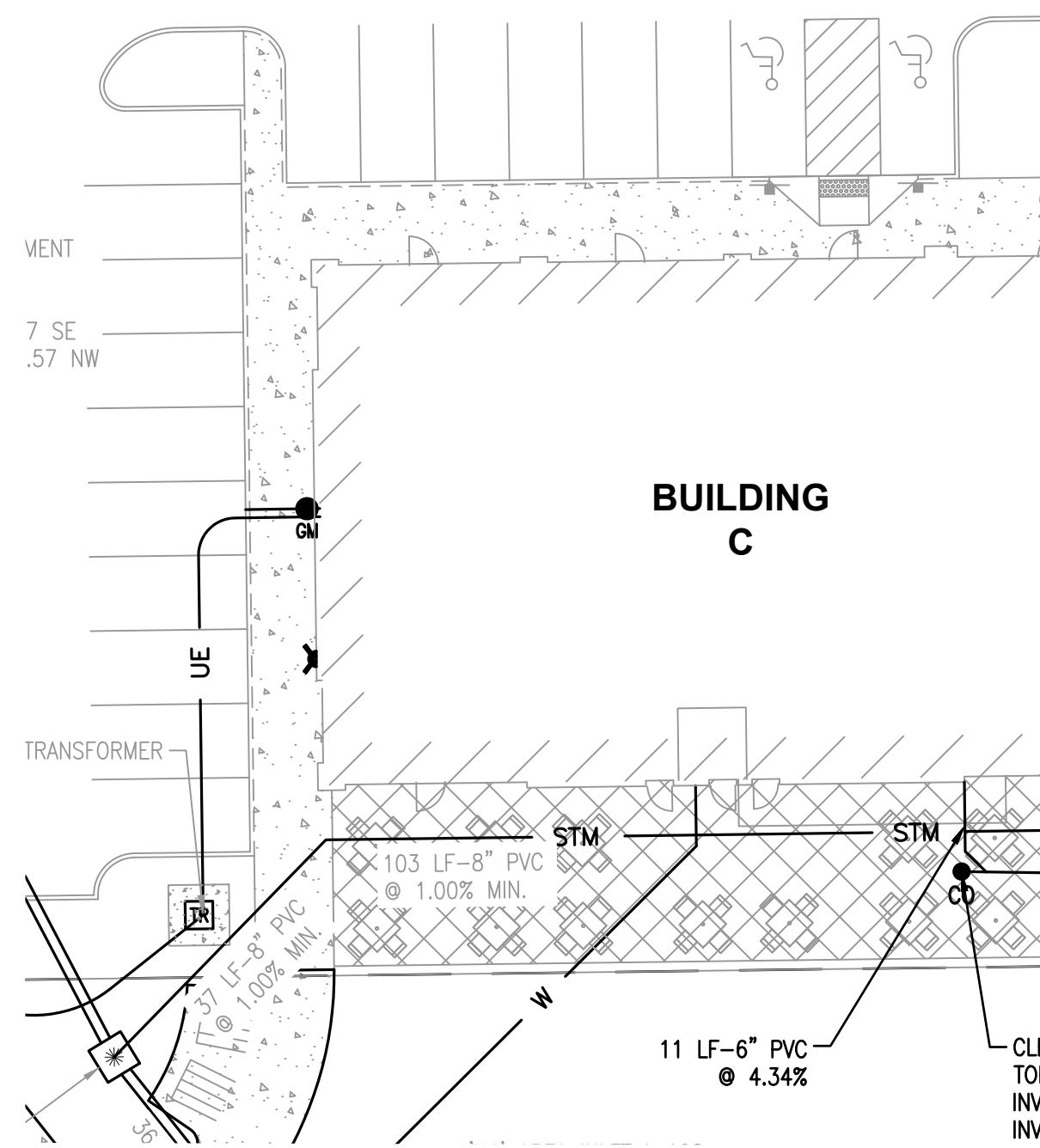
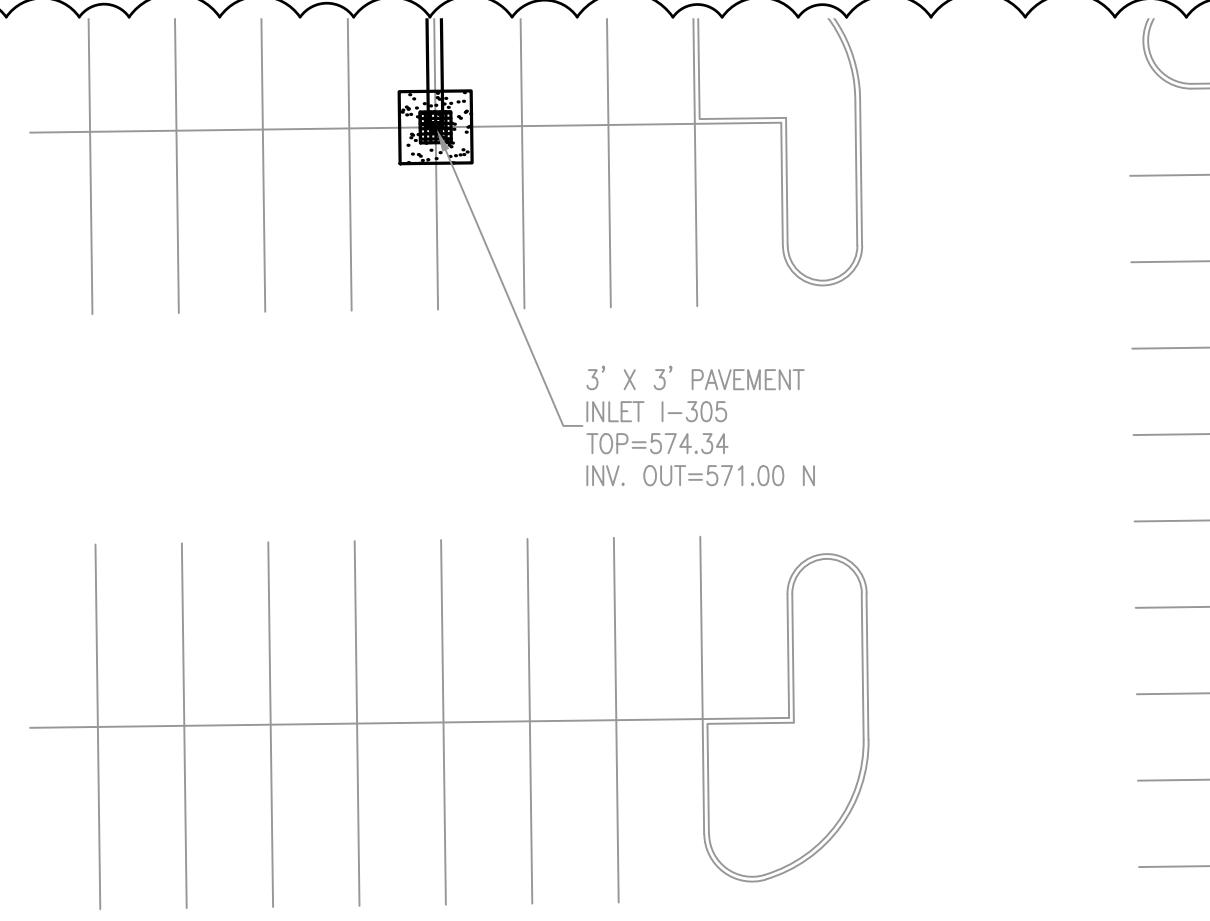
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DESIGNED BY: DLL
CHECKED BY: DLL
APPROVED BY: MJM
PROJECT NO: D10150464F

PROJECT:
ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

TITLE:

**SANITARY SEWER SERVICE
PLAN AND PROFILE
BUILDING C**

C5.6



ILLINOIS	SWANSEA COLUMBIA GLEN CARBON PEORIA
MISSOURI	ST. CHARLES ST. LOUIS COLUMBIA
TENNESSEE	NASHVILLE CHATTANOOGA

THOUVENOT, WADE & MOERCHEN, INC.

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4940 OLD COLLINSVILLE RD.
SWANSEA, ILLINOIS
62226-2025
TEL (618) 624-4488
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 IL. PROF. STR. ENGR. CORP. 81-005202
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 KS. PROF. ENGR. FACILITY E-3256
 MO. PROF. ENGR. CORP. 001528
 MO. LAND SURVEYING CORP. 000346
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 CHECKED BY: DLL
 APPROVED BY: MJM
 PROJECT NO: D10150464F

 PROJECT:

 ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

TITLE:	STORM SEWER PROFILES
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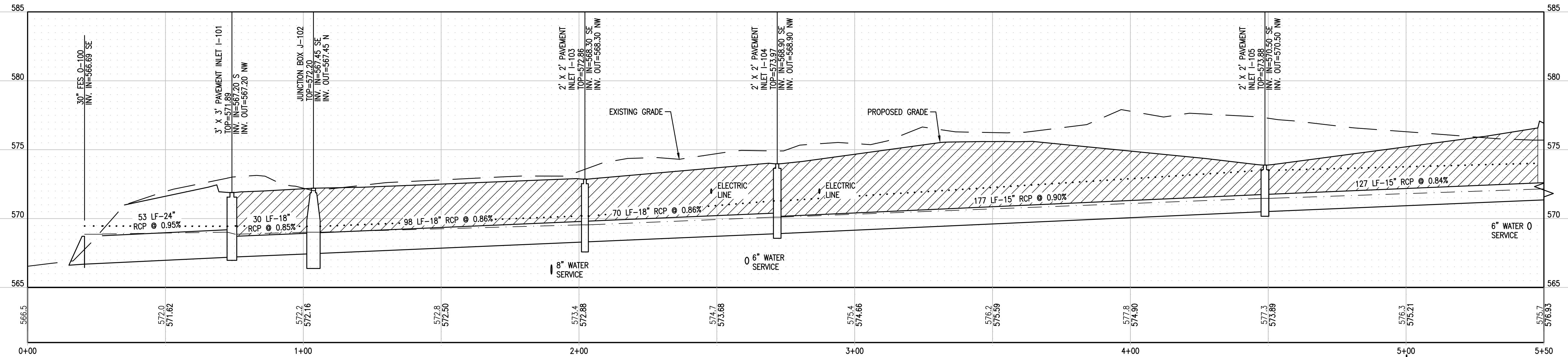
 EXISTING GRADE
 PROPOSED GRADE
 25-YEAR HYDRAULIC GRADE LINE
 100-YEAR HYDRAULIC GRADE LINE

 AGGREGATE BACKFILL

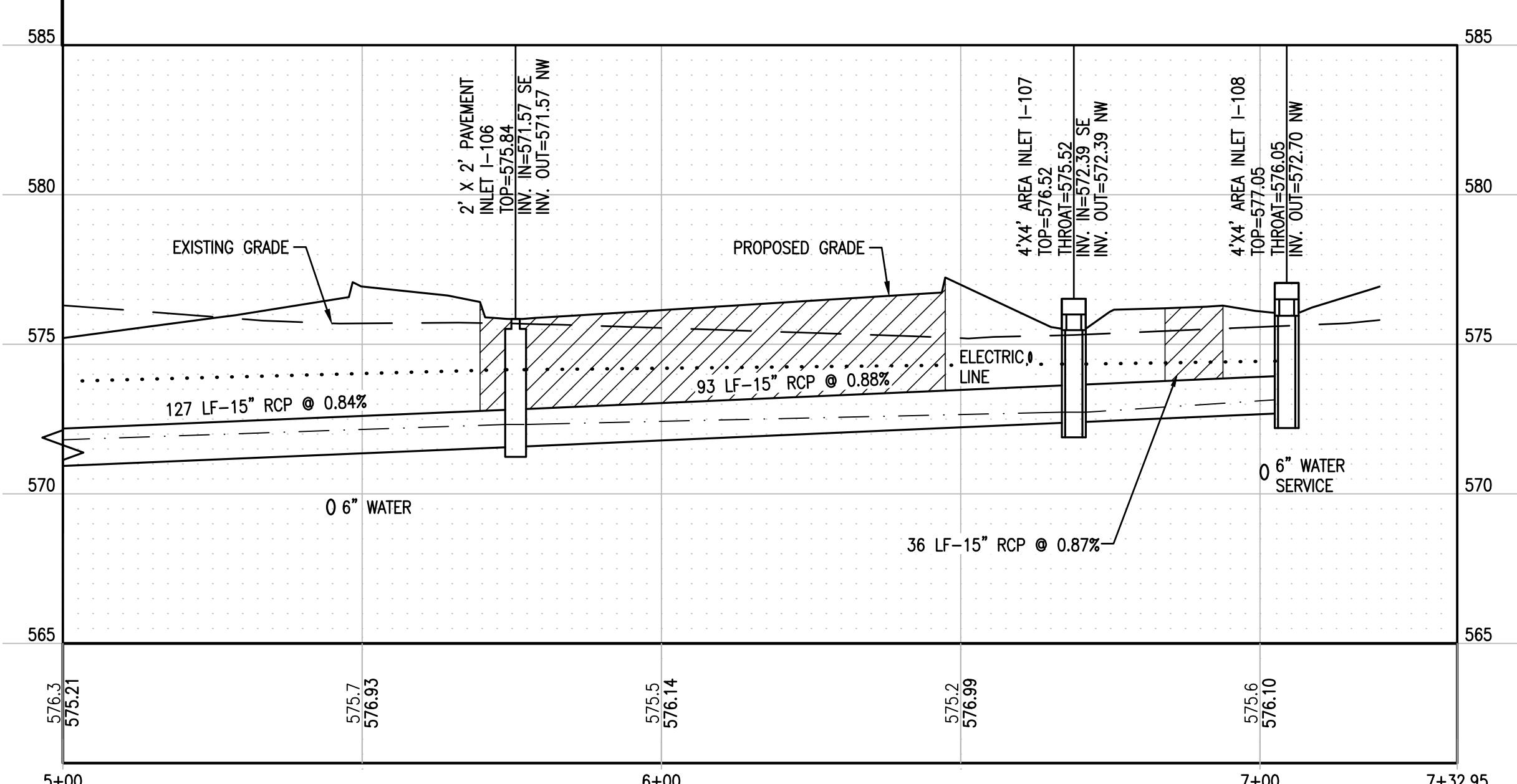
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C5.7

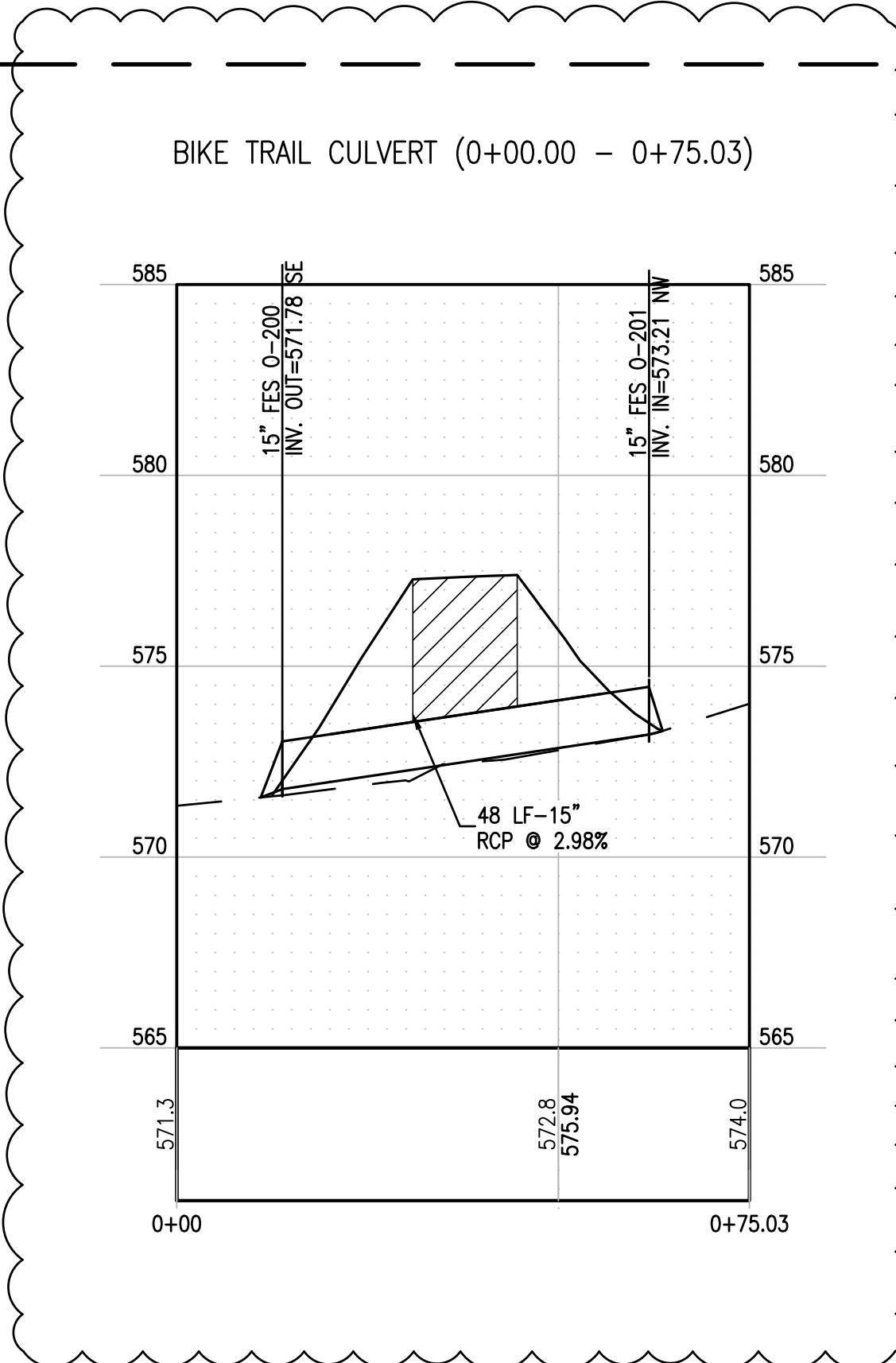
0-100 TO I-108 (0+00.00 - 5+50.00)



0-100 TO I-108 (5+00.00 - 7+32.95)



BIKE TRAIL CULVERT (0+00.00 - 0+75.03)



ILLINOIS	SWANSEA COLUMBIA GLEN CARBON PEORIA
MISSOURI	ST. CHARLES ST. LOUIS COLUMBIA
TENNESSEE	NASHVILLE CHATTANOOGA

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PROJECT:

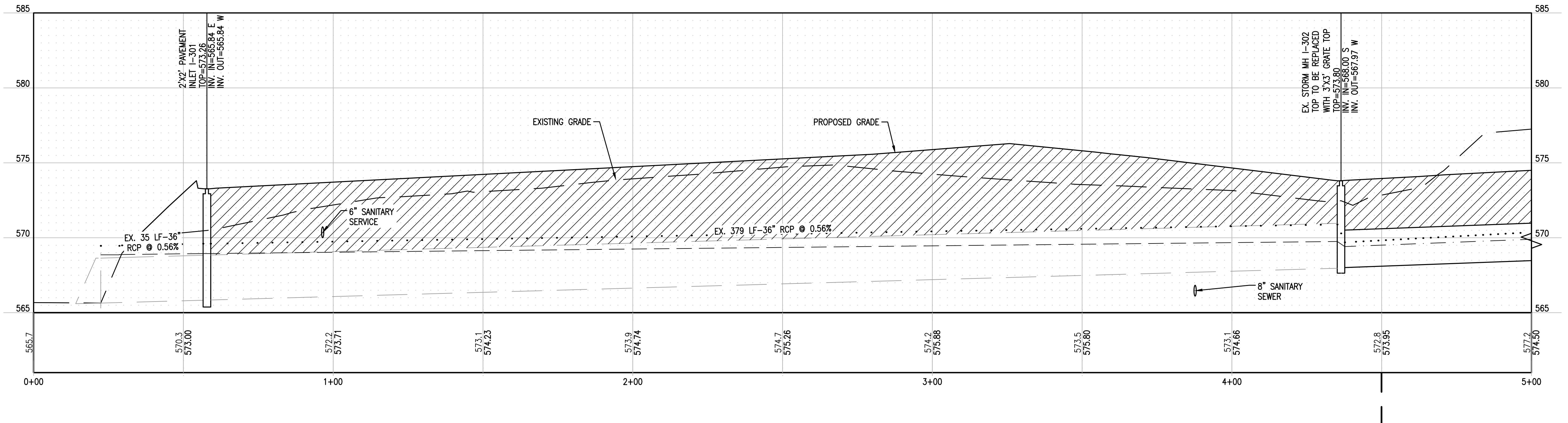
ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

TITLE:

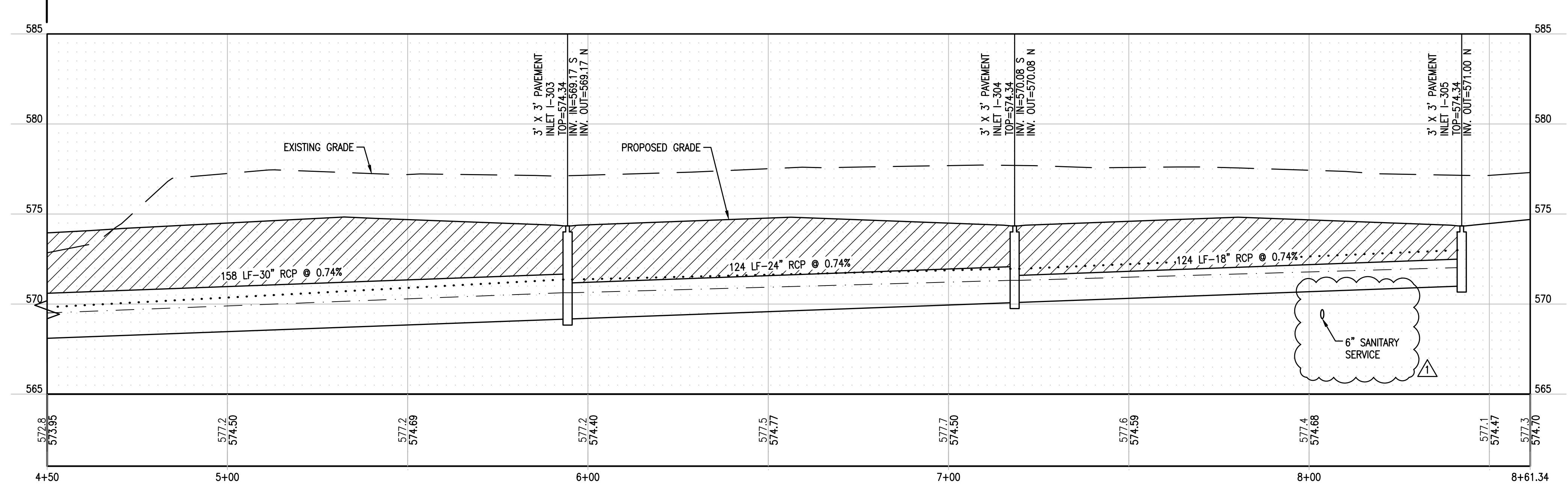
STORM SEWER
PROFILES

C5.8

EX. 0-300 TO I-305 (0+00.00 - 5+00.00)

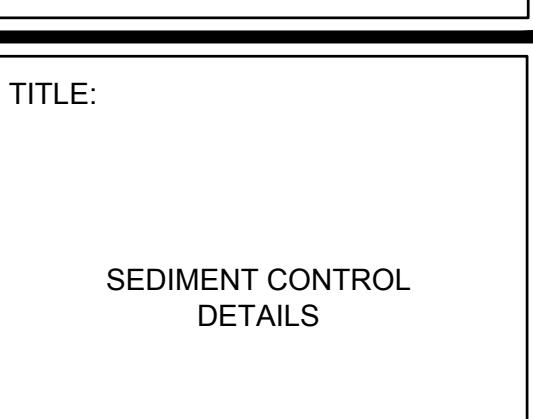
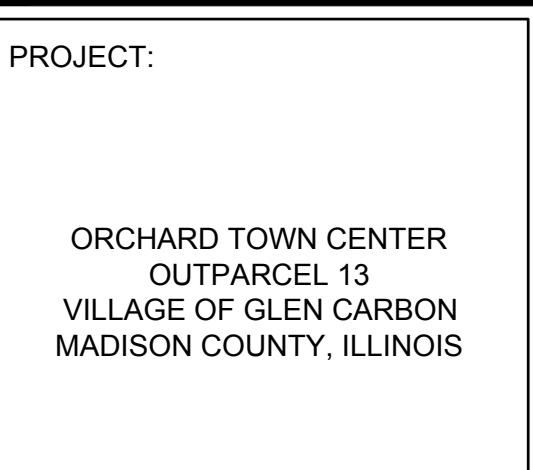
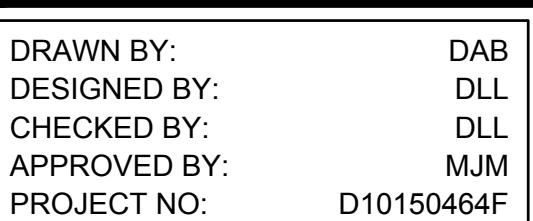
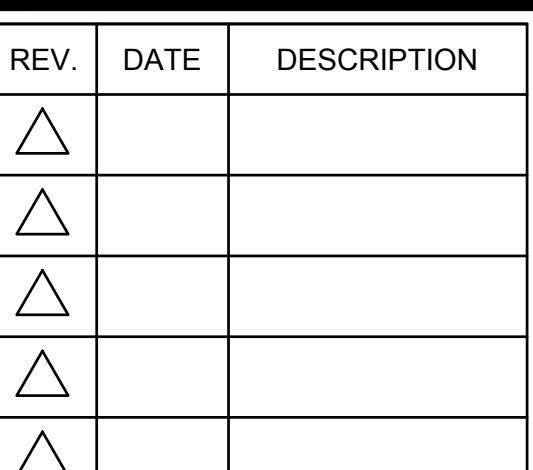
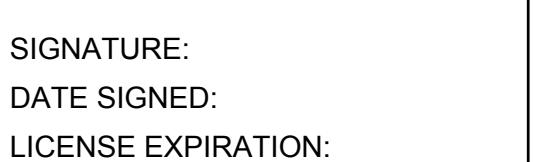
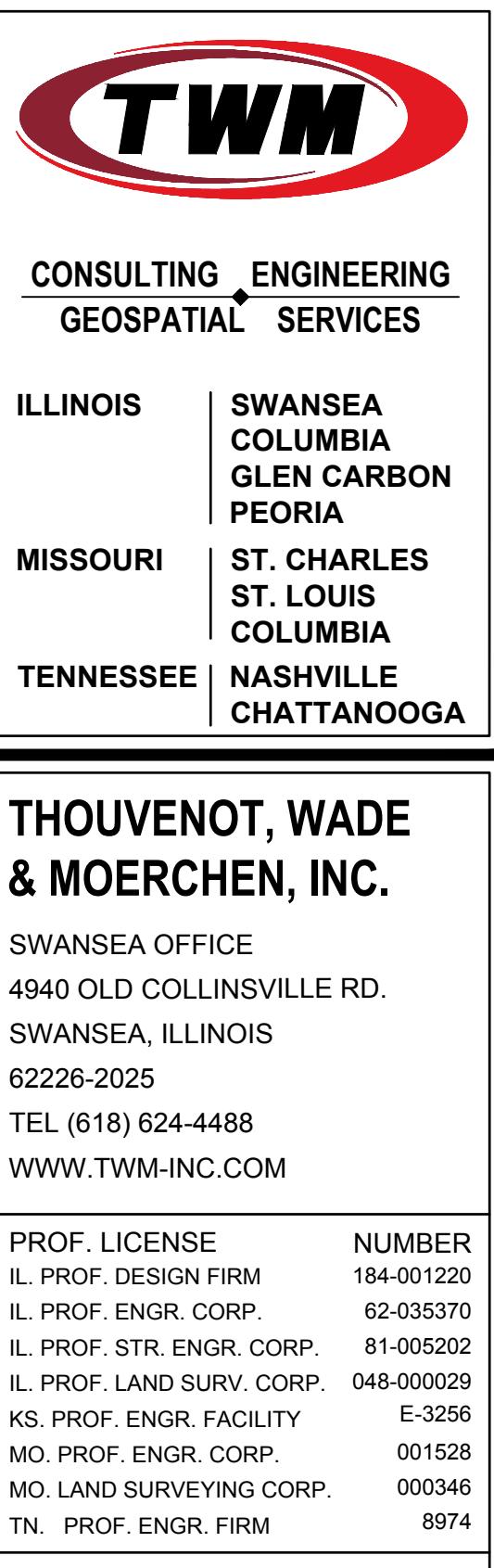
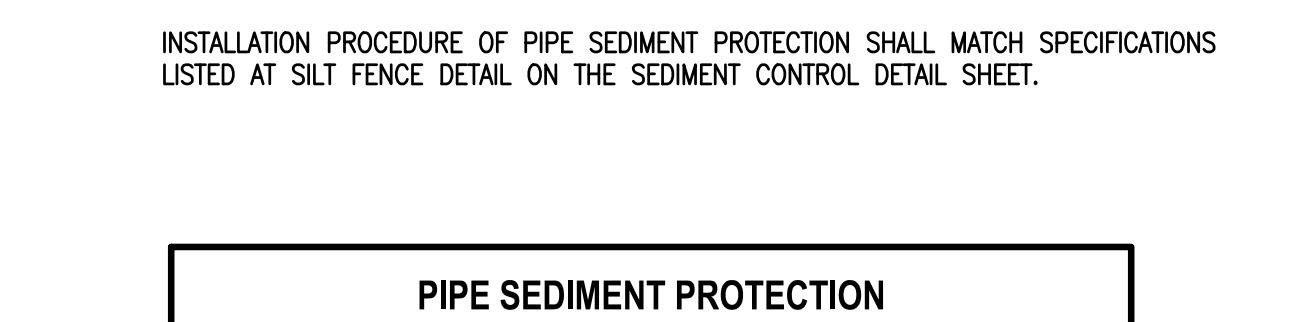
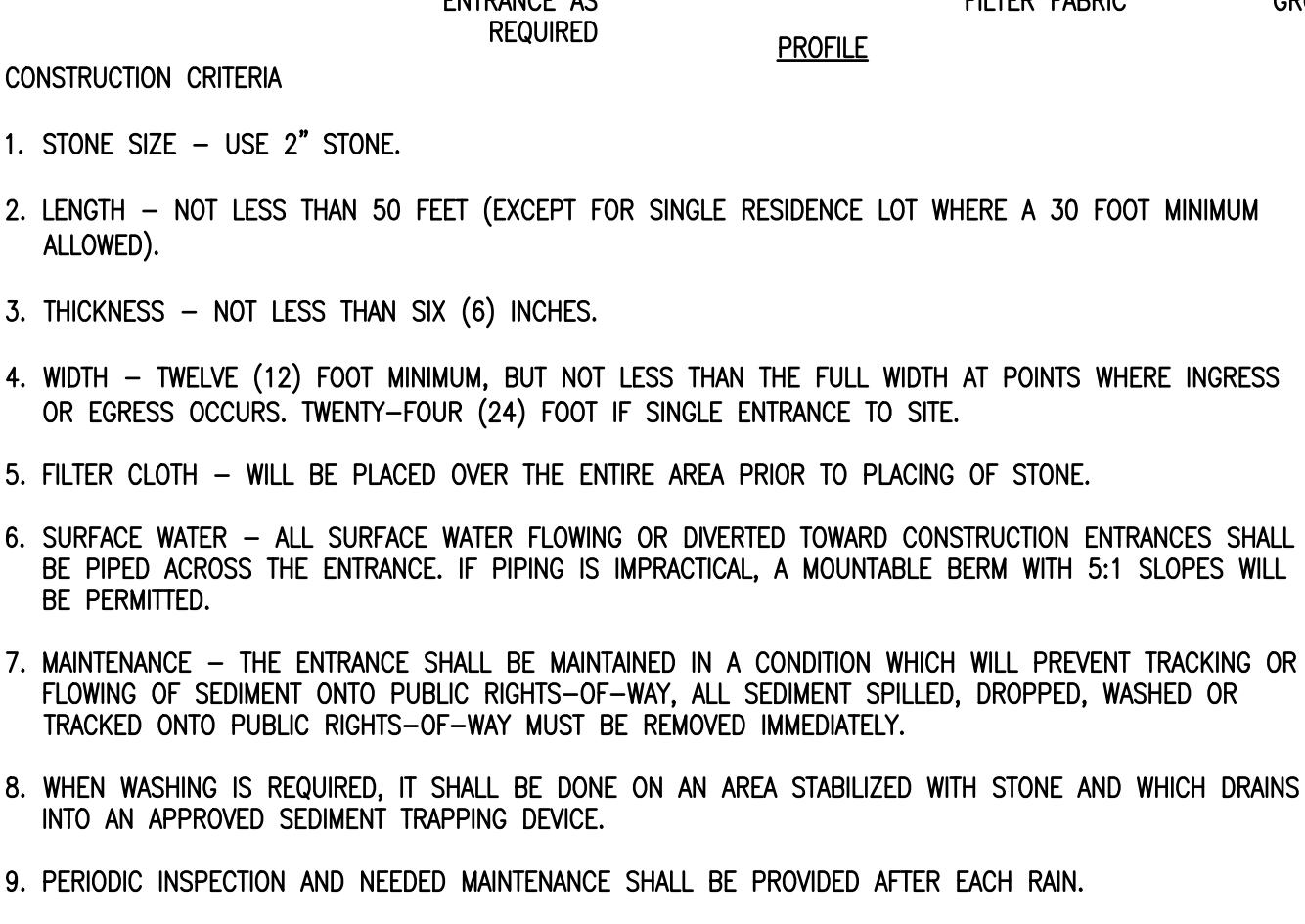
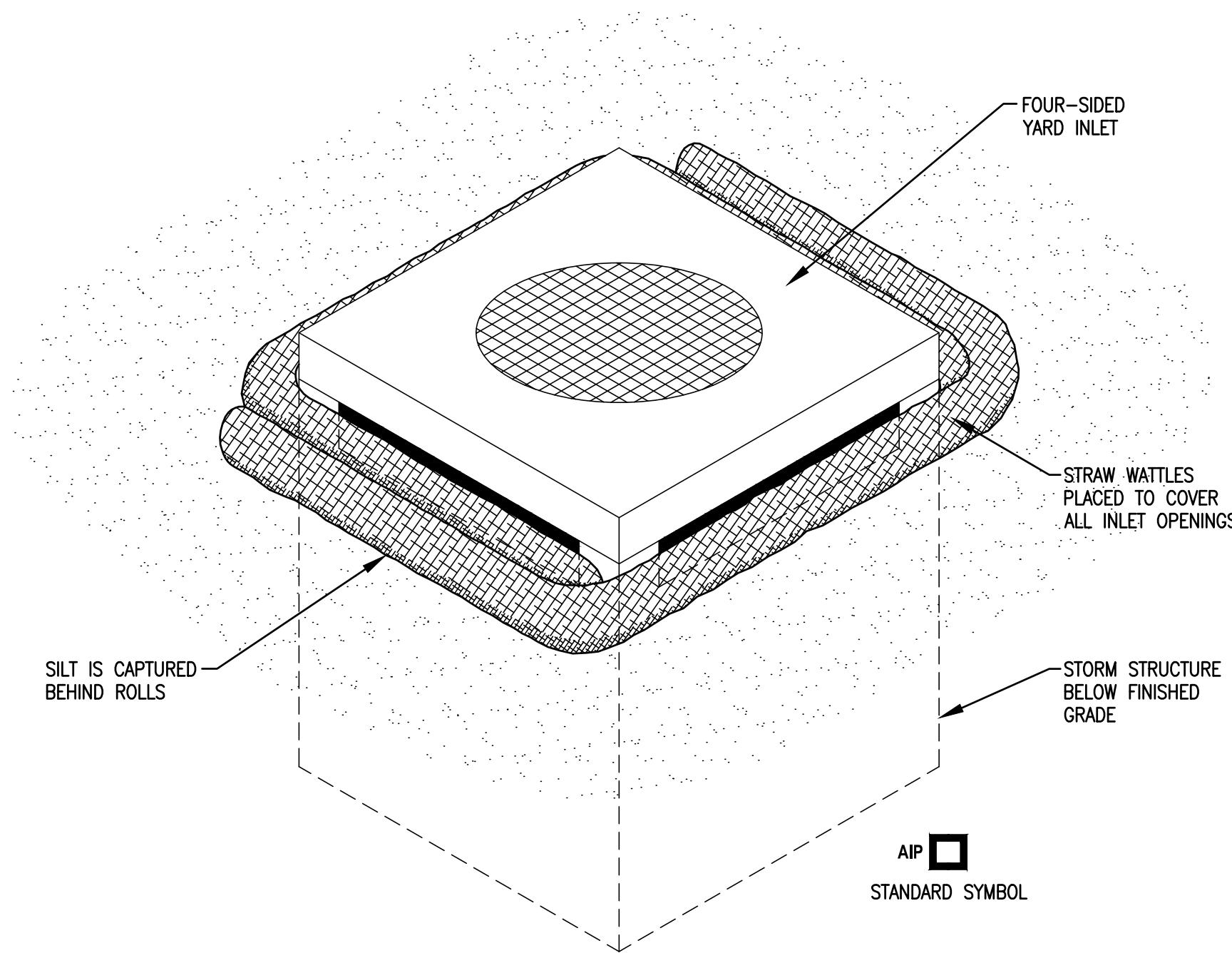
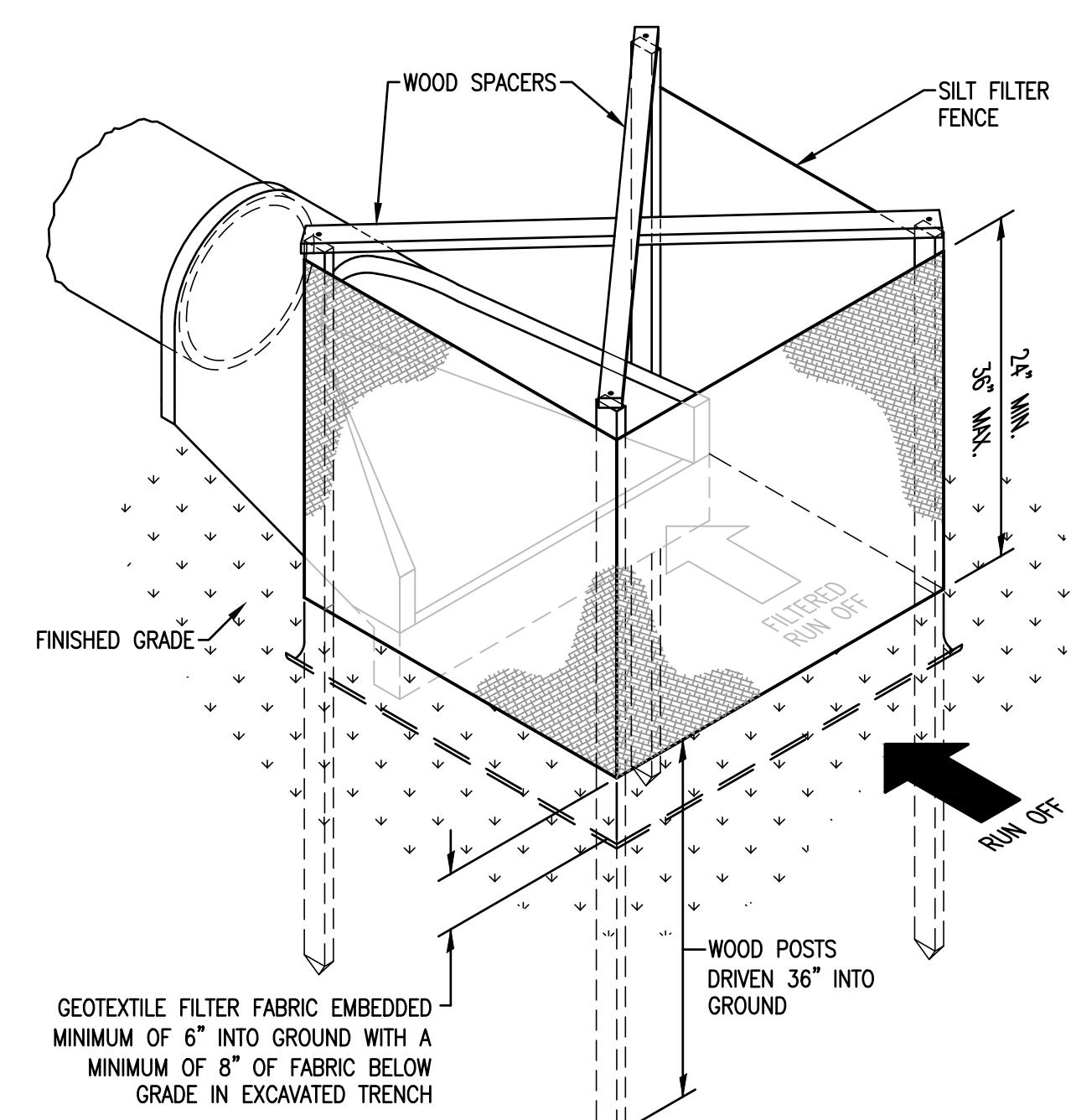
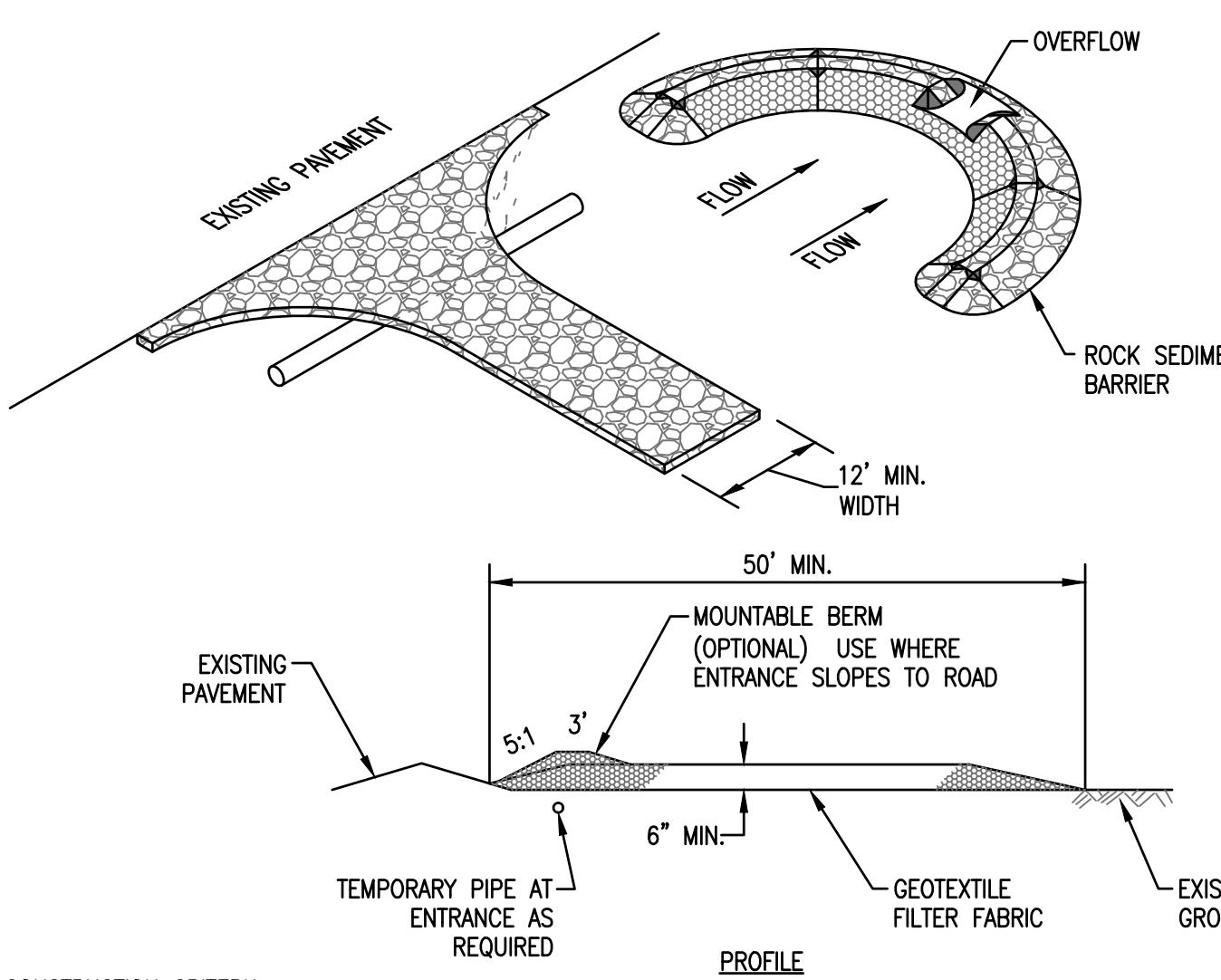
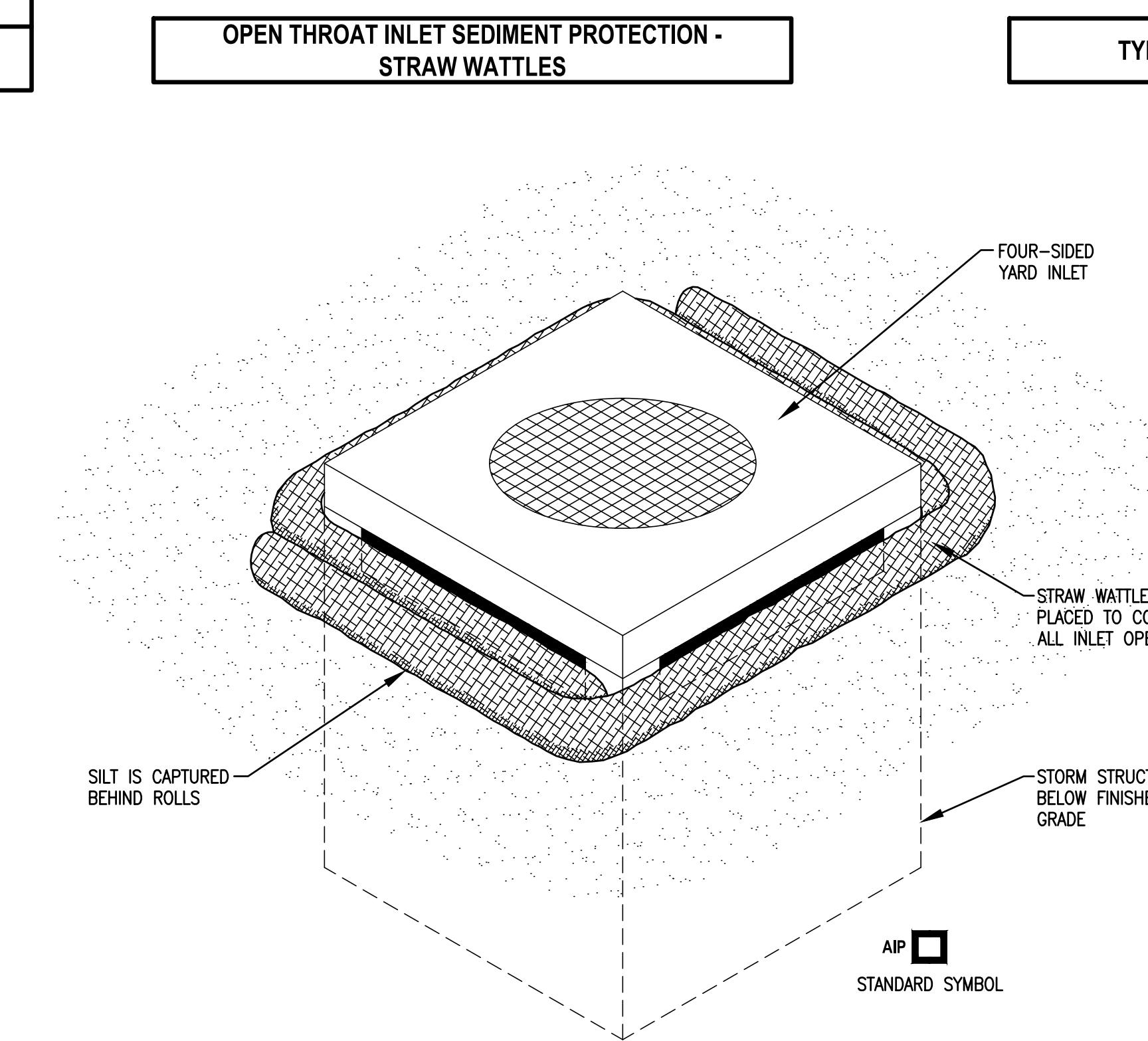
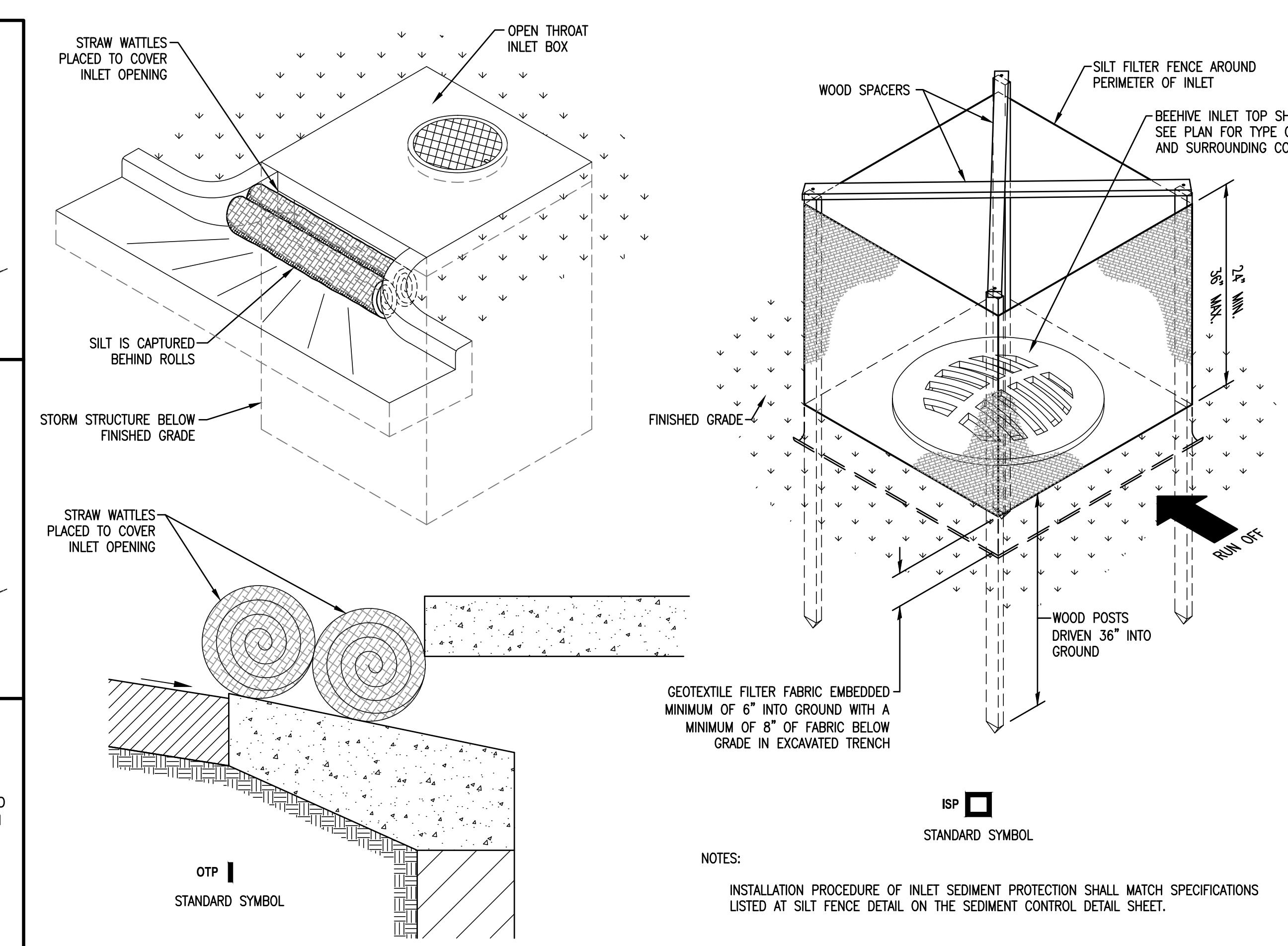
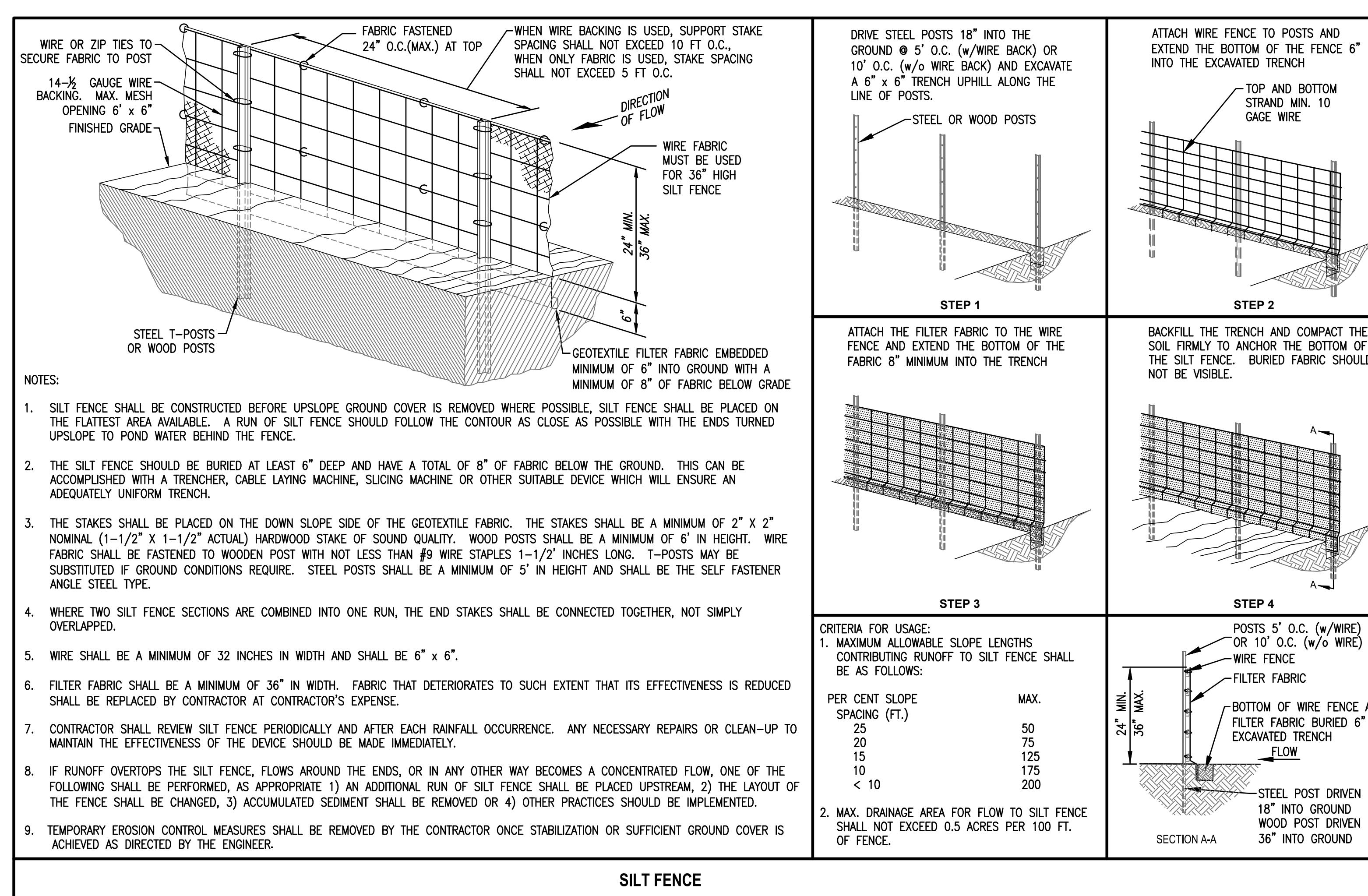


EX. 0-300 TO I-305 (4+50.00 - 8+61.34)



EXISTING GRADE
PROPOSED GRADE
25-YEAR HYDRAULIC GRADE LINE
100-YEAR HYDRAULIC GRADE LINE
AGGREGATE BACKFILL

PRELIMINARY



ILLINOIS	SWANSEA COLUMBIA GLEN CARBON PEORIA
MISSOURI	ST. CHARLES ST. LOUIS COLUMBIA
TENNESSEE	NASHVILLE CHATTANOOGA

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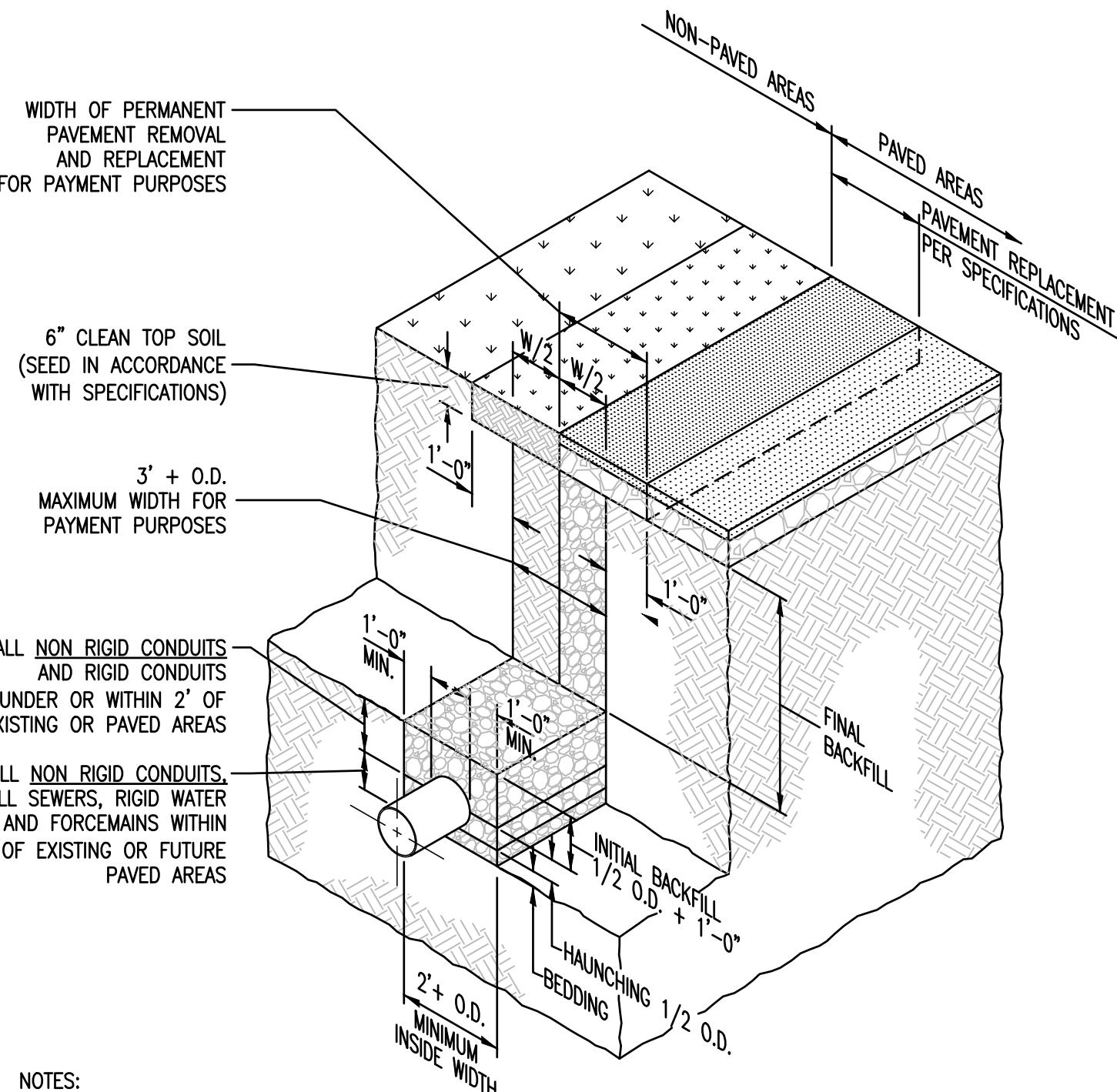
REV.	DATE	DESCRIPTION
▲	8-24-23	VILLAGE OF GLEN CARBON REVIEW
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 PROJECT NO: D10150464F

 PROJECT:

 ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

 TITLE:

 SANITARY SEWER DETAILS


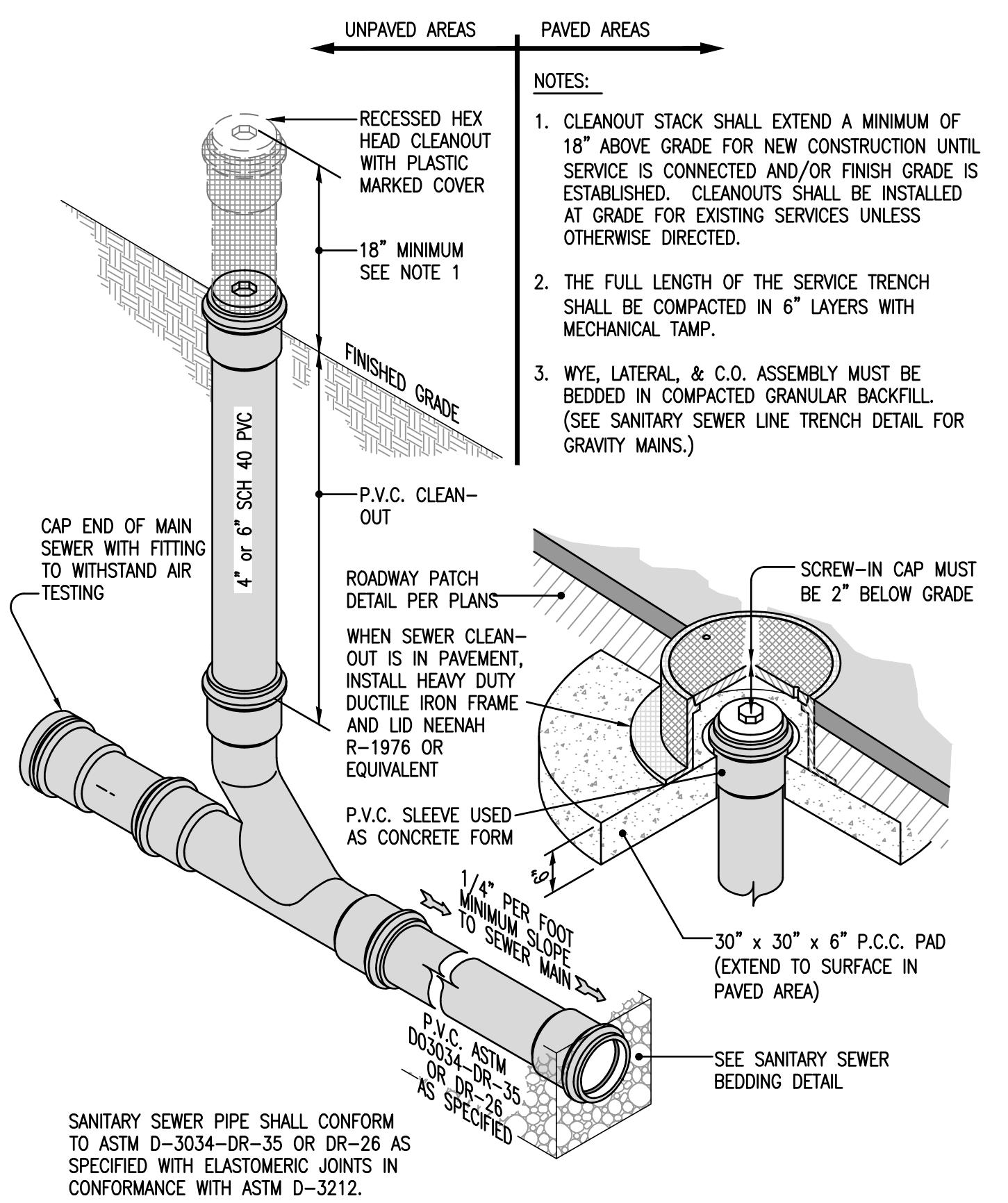
1. CONTRACTOR SHALL EXCAVATE TRENCH, PROVIDE BEDDING, AND TRENCH BACKFILL IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AND O.S.H.A. REQUIREMENTS.
2. BEDDING, HAUNCHING, INITIAL, AND FINAL BACKFILL

BEDDING, HAUNCHING AND INITIAL BACKFILL SHALL BE CRUSHED GRAVEL OR STONE, GRADATION CA-7, CLASS 1A, CONFORMING TO THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION, AND TO ASTM D2321-05 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW INSTALLATIONS."

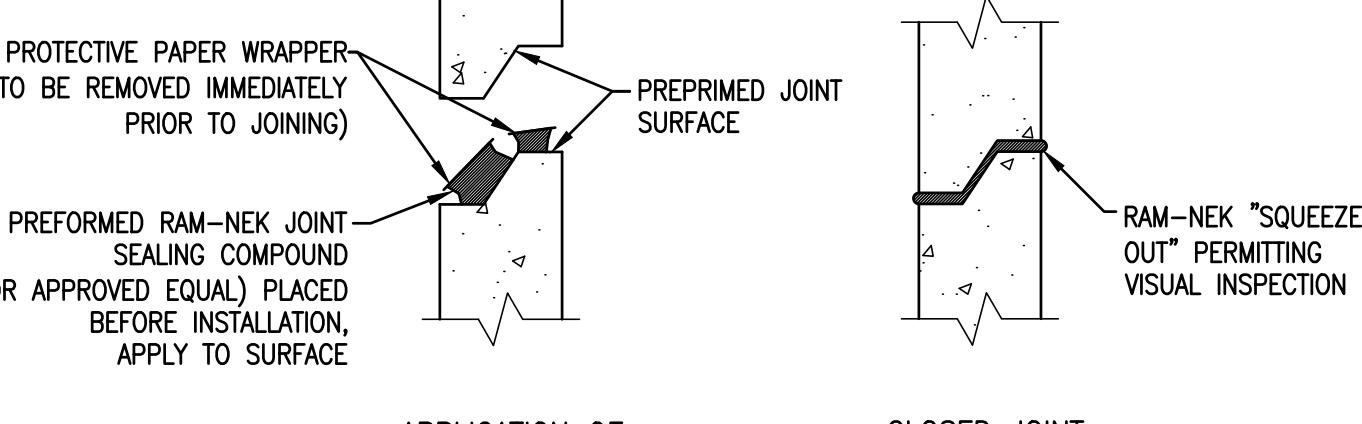
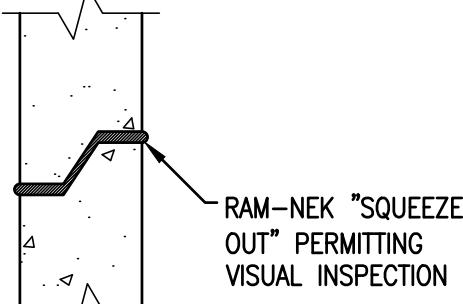
FINAL BACKFILL UNDER PAVEMENT OR STRUCTURAL AREAS SHALL BE CRUSHED GRAVEL OR STONE, GRADATION CA-7, CLASS 1A, CONFORMING TO THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION, AND TO ASTM D2321-05 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW INSTALLATIONS."

FINAL BACKFILL UNDER NON-PAVED OR STRUCTURAL AREAS SHALL BE CASE I EXCAVATED MATERIALS FREE FROM ORGANICS, CLODS, FROZEN, OR DELETERIOUS MATERIALS.

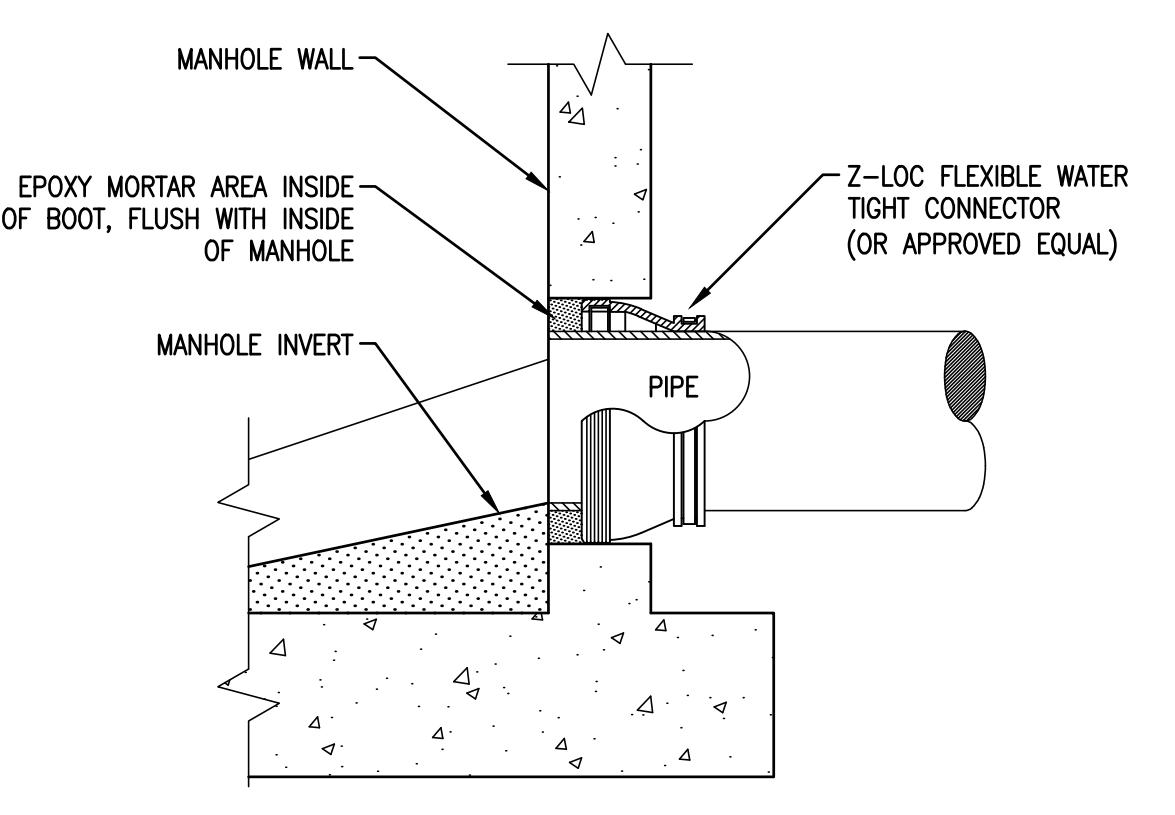
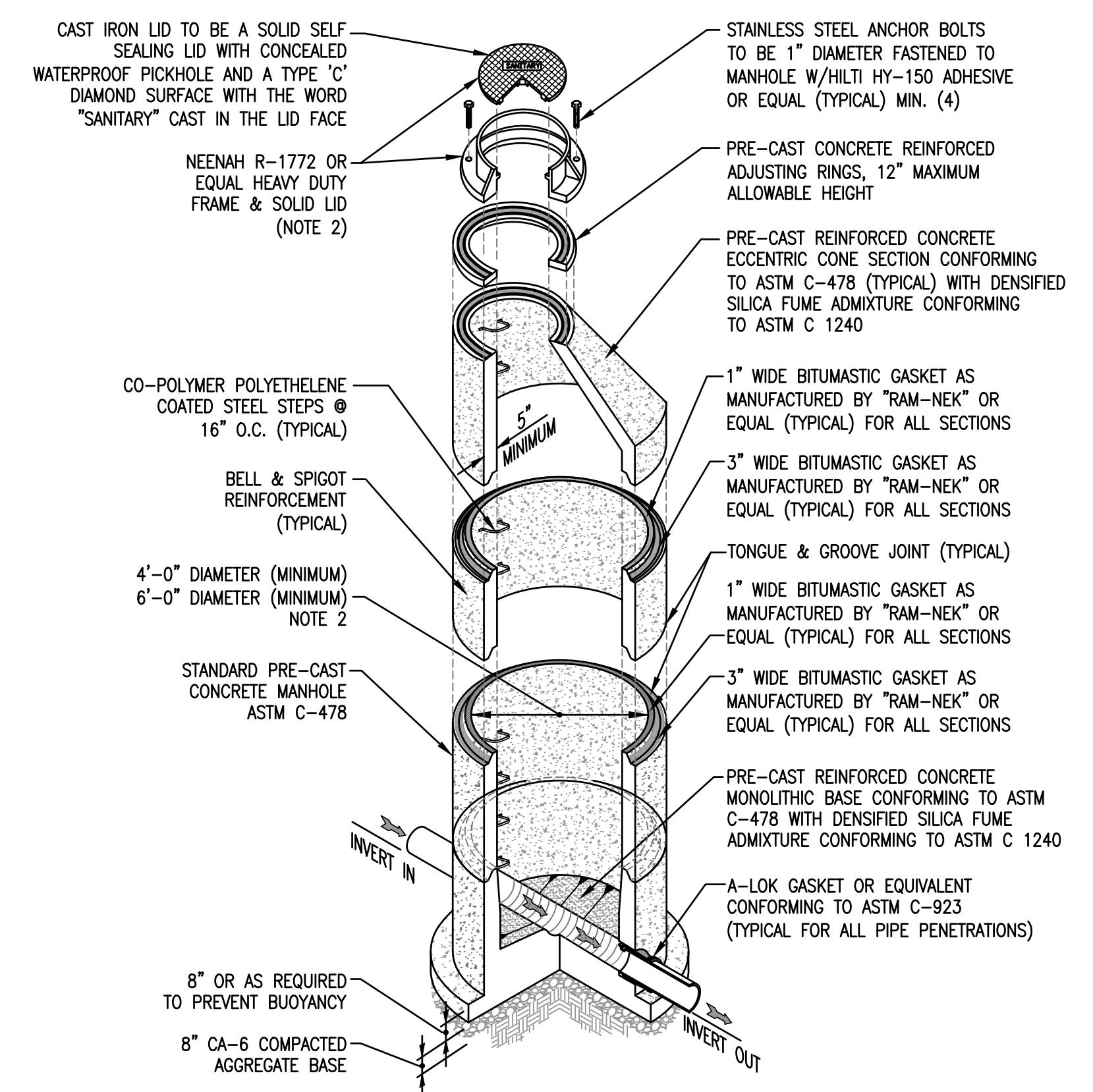
BEDDING, HAUNCHING, INITIAL BACKFILL, AND FINAL BACKFILL SHALL BE EXTENDED A DISTANCE OF THREE (3) FEET BEYOND THE EDGE OF EXISTING STRUCTURAL AREAS (I.E. PAVEMENT, CURB & GUTTER, SIDEWALK, STRUCTURAL AREAS, ETC.)

SANITARY SEWER BEDDING AND BACKFILL


SANITARY SEWER CLEANOUT


 APPLICATION OF
SEALANT


CLOSED JOINT


 FLEXIBLE MANHOLE PIPE CONNECTION
SANITARY SEWER GASKET SEAL
AND PIPE CONNECTION


1. MANHOLES LOCATED IN AREAS SUBJECT TO SURFACE WATER PONDING OR FLOODING SHALL USE NEENAH R-1915E TYPE "L" FRAMES W/ STAINLESS STEEL BOLT DOWN WATERPROOF LIDS.
2. MANHOLES WITH PIPES 27" - 36" OR WHERE GEOMETRY OF THE PIPE CONFIGURATION REQUIRES SHALL BE A MINIMUM OF 6'-0" DIAMETER.
3. MANHOLE CHANNEL TO SLOPE 0.1 FOOT FROM UPSTREAM TO DOWNSTREAM PIPES.

SANITARY SEWER MANHOLE

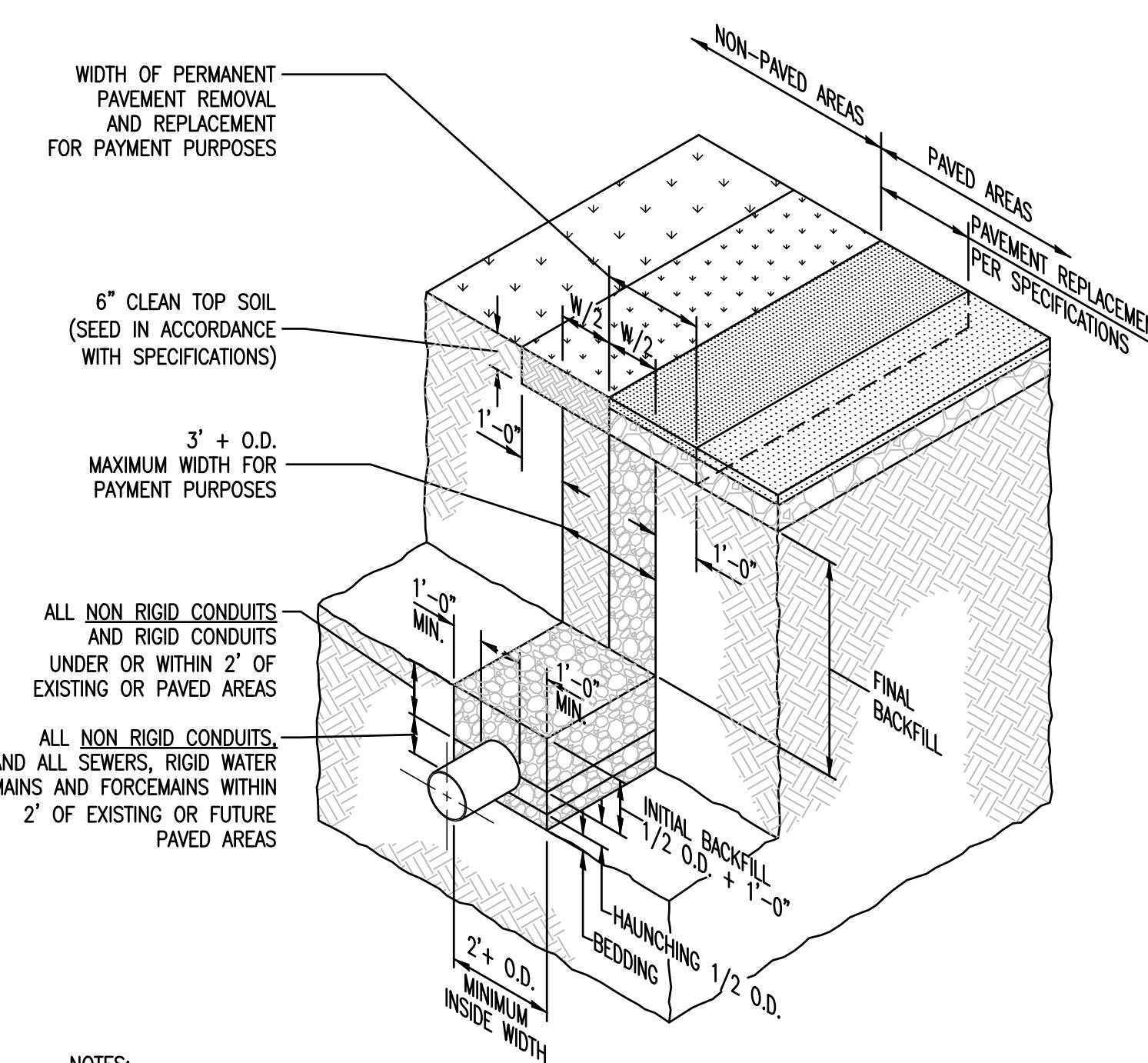
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DESIGNED BY: DLL
CHECKED BY: DLL
APPROVED BY: MJM
PROJECT NO: D10150464F

 PROJECT:

ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

 TITLE:

STORM SEWER DETAILS


NOTES:

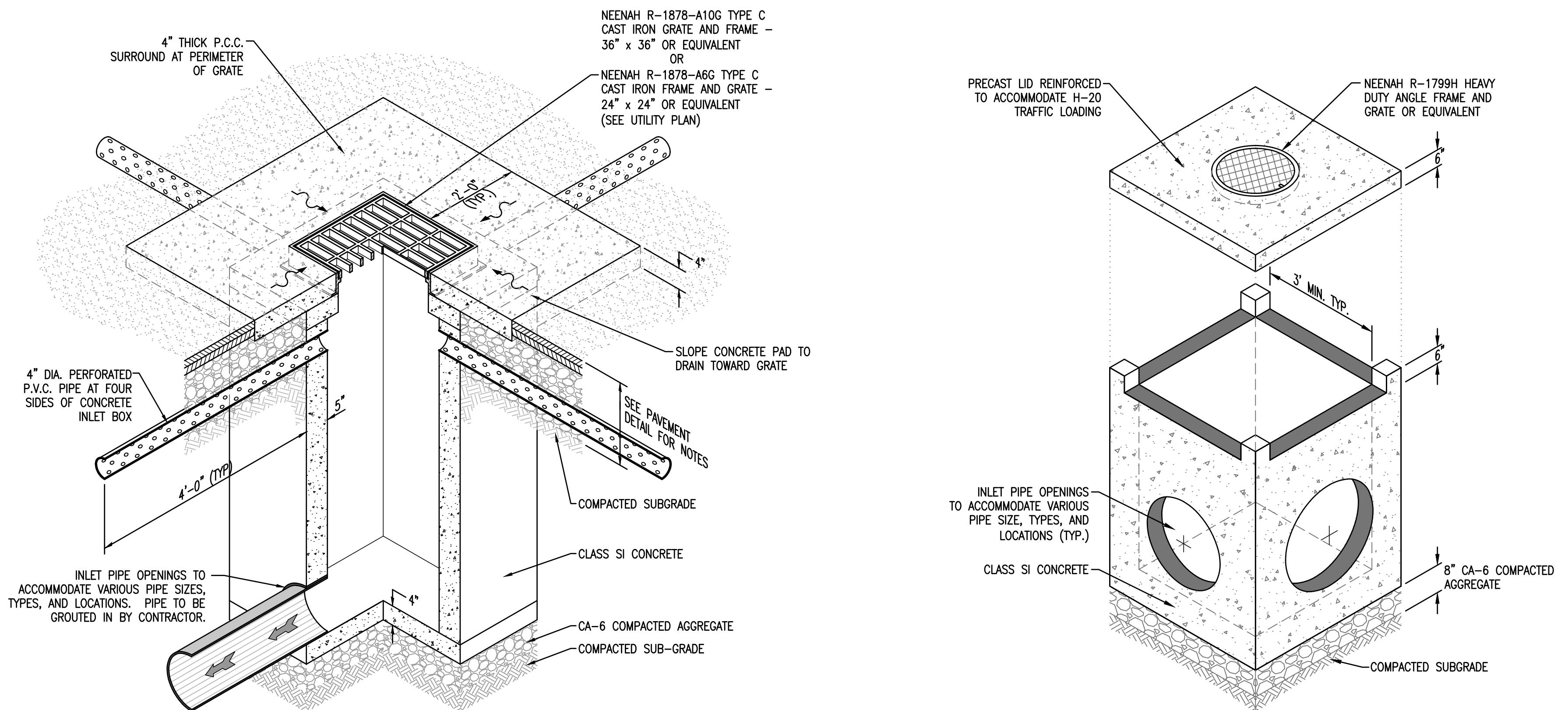
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2. BEDDING, HAUNCHING, INITIAL, AND FINAL BACKFILL

BEDDING, HAUNCHING AND INITIAL BACKFILL SHALL BE CRUSHED GRAVEL OR STONE, GRADATION CA-7, CLASS 1A, CONFORMING TO THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION, AND TO ASTM D2321-05 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW INSTALLATIONS."

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FINAL BACKFILL UNDER NON-PAVEMENT OR STRUCTURAL AREAS SHALL BE CASE I EXCAVATED MATERIALS FREE FROM ORGANICS, CLODS, FROZEN, OR DELETERIOUS MATERIALS.

BEDDING, HAUNCHING, INITIAL BACKFILL, AND FINAL BACKFILL SHALL BE EXTENDED A DISTANCE OF THREE (3) FEET BEYOND THE EDGE OF EXISTING STRUCTURAL AREAS (I.E. PAVEMENT, CURB & GUTTER, SIDEWALK, STRUCTURAL AREAS, ETC.)



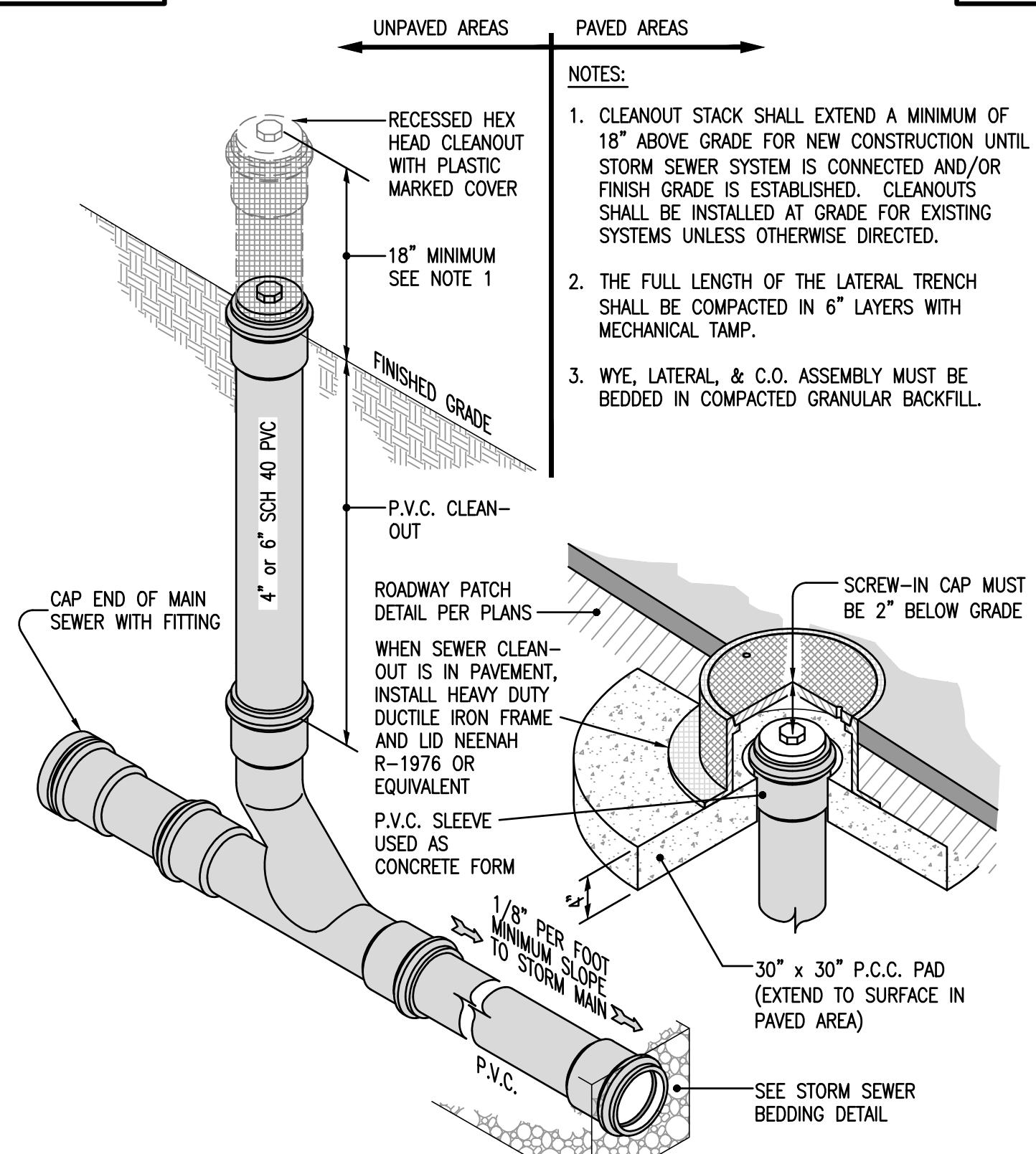
NOTES:

1. PRECAST INLET BOXES SHALL CONFORM TO ASTM C-478
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL STORM SEWER STRUCTURES.
3. ALL INLETS IN PAVEMENT AREAS SHALL BE CAPABLE OF WITHSTANDING H-20 LOADING.
4. MINIMUM INSIDE DIMENSION OF PAVEMENT INLETS SHALL BE 3' X 3'.
5. ALL PAVEMENT INLETS SHALL HAVE A MINIMUM OF 6" BETWEEN OUTSIDE OF PIPE AND ADJACENT WALL OF STRUCTURE.
6. STORM SEWER PIPE TO BE SEALED WITH NON-SHRINK GROUT AT PIPE/PAVEMENT INLET INTERFACE.
7. FILLETS SHALL BE CONSTRUCTED AT ALL STORM SEWER INVERTS TO ENSURE PROPER FLOW.

NOTES:

1. PRECAST OPEN THROAT INLETS SHALL CONFORM TO ASTM C-478
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL STORM SEWER STRUCTURES
3. MINIMUM INSIDE DIMENSION OF OPEN THROAT INLETS SHALL BE 3' X 3'.
4. ALL INLETS SHALL HAVE A MINIMUM OF 6" BETWEEN OUTSIDE OF PIPE AND ADJACENT WALL OF STRUCTURE.
5. STORM SEWER PIPE TO BE SEALED WITH NON-SHRINK GROUT AT PIPE/INLET INTERFACE.

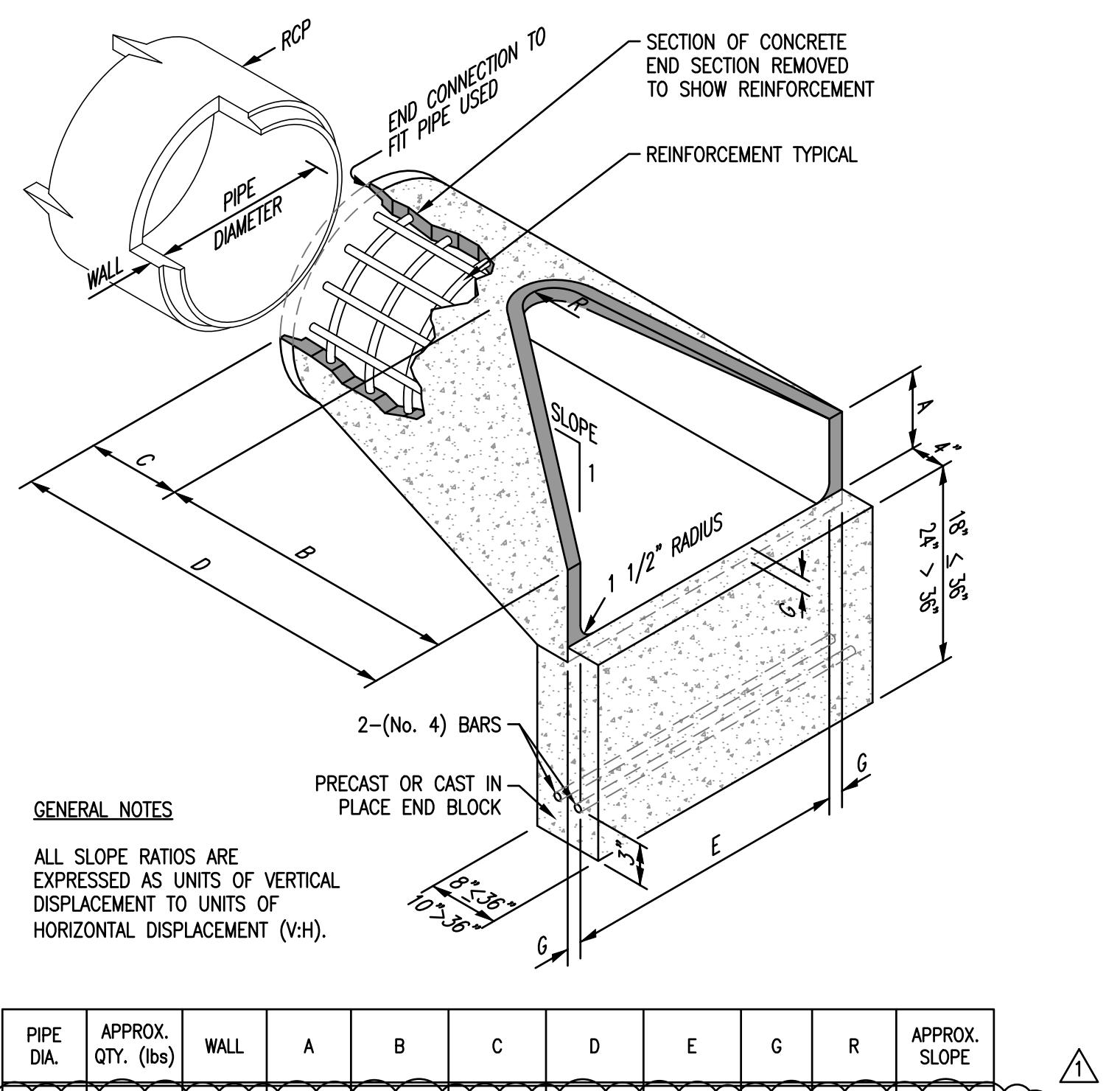
STORM SEWER BEDDING AND BACKFILL



STORM SEWER PIPE SHALL CONFORM TO AASHTO M 278 OR ASTM F 679 EXCEPT THAT IT SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF 12454-C OR 12364-C, AS DEFINED IN ASTM D 1784.

STORM SEWER CLEANOUT

PAVEMENT STORM SEWER INLET



PIPE DIA	APPROX. QTY. (lbs)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
15"	740	2 1/4"	6"	27"	3'-10"	6'-1"	30"	2 1/4"	11"	1:2.4
30"	2190	3 1/2"	12"	4'-6"	19 3/4"	6'-1 3/4"	5'-0"	3 1/2"	15"	1:2.5

* Radius as furnished by manufacturer

PRECAST REINFORCED FLARED END SECTION

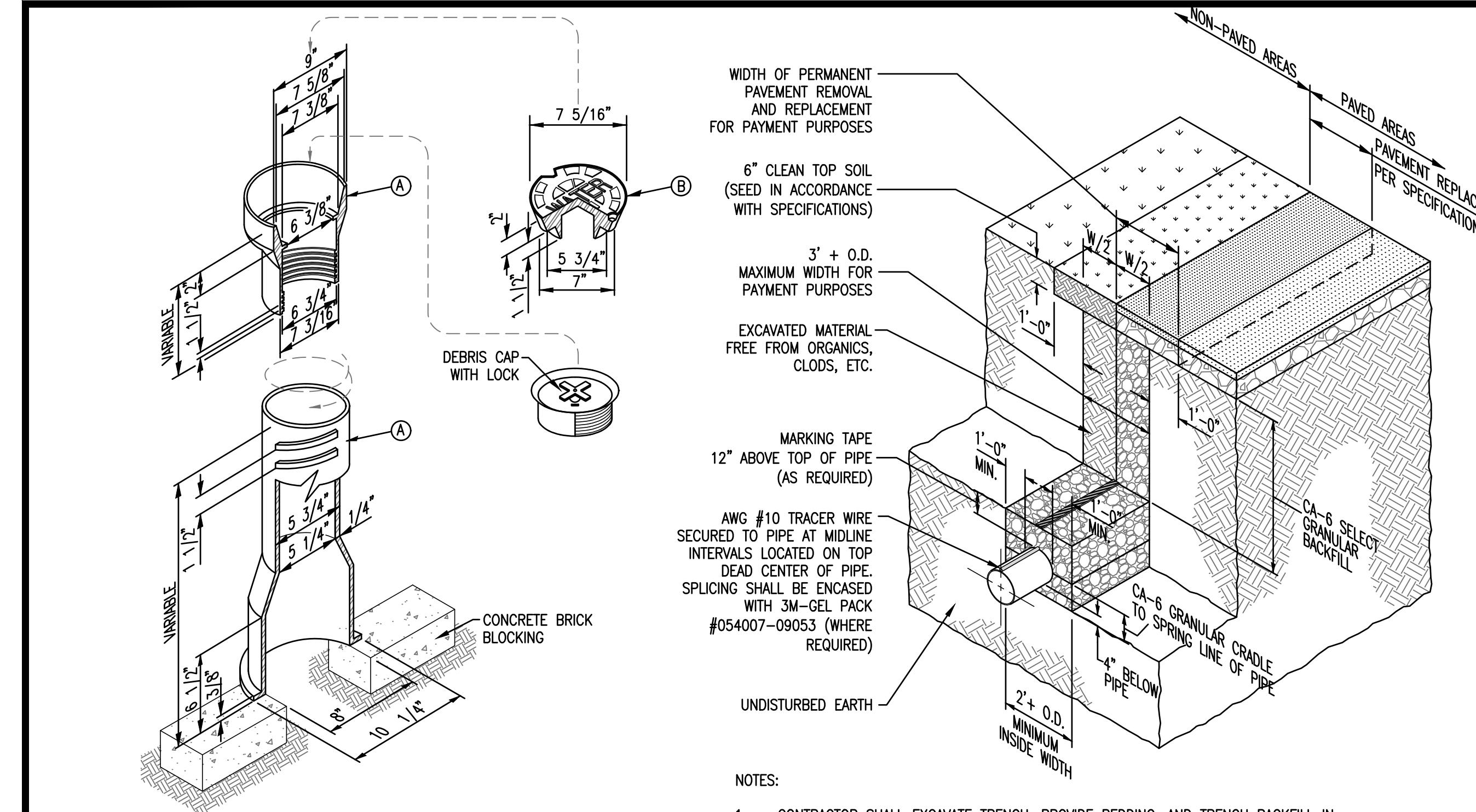
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 TITLE:

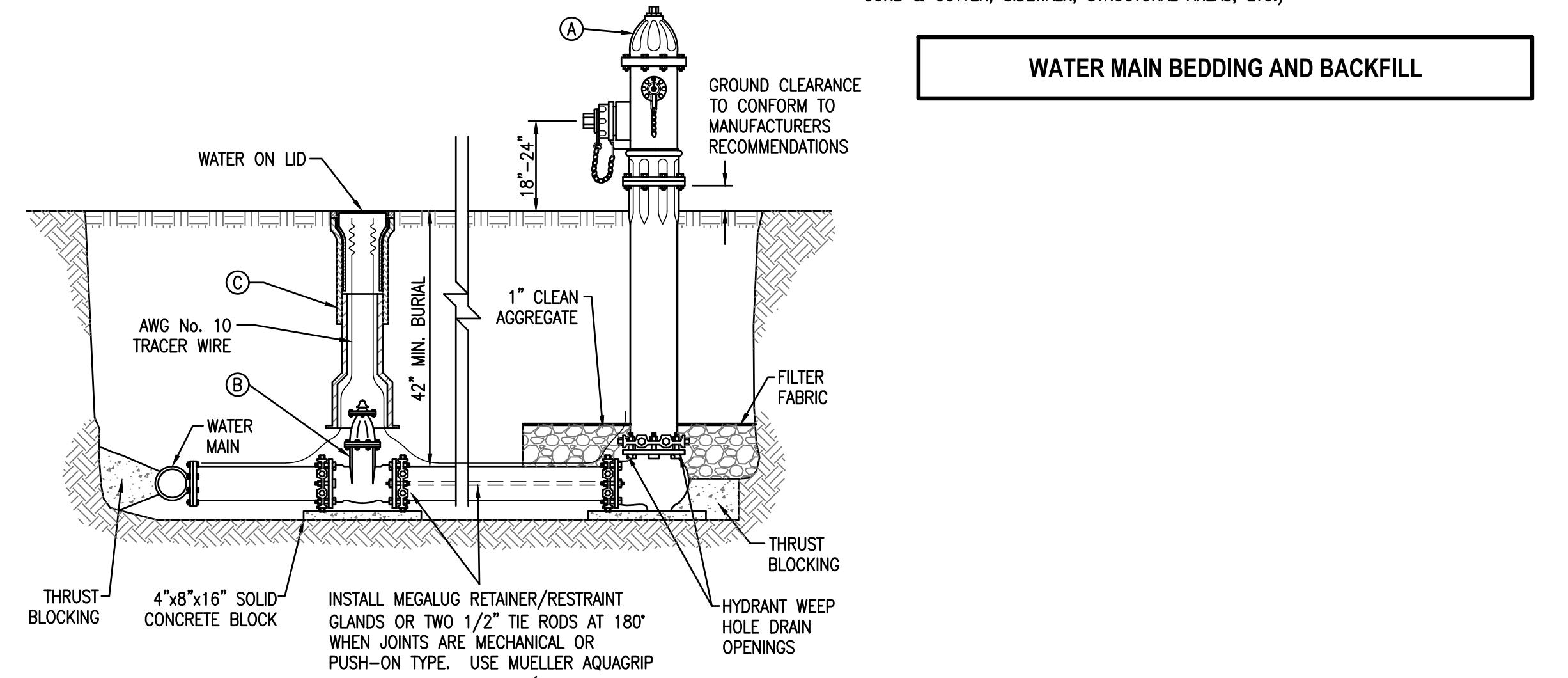
WATER MAIN
DETAILS


PART	MANUFACTURER MODEL / CAT. NO.
(A) VALVE BOX	EAST JORDAN IRON WORKS - 8550 SERIES, SCREW TYPE BINGHAM & TAYLOR - 2 PIECE SCREW TYPE
(B) VALVE BOX DROP LID	EAST JORDAN IRON WORKS - 6800 BINGHAM & TAYLOR LID

NOTES:

1. USE HEAVY DUTY TRAFFIC TYPE LID WITH THE WORD "WATER" CAST INTO THE LIDS SURFACE.
2. PROVIDE ONE (1) INCH EARTH CUSHION BETWEEN THE BOTTOM OF THE CONCRETE BRICK AND VALVE. DO NOT LET THE VALVEBOX OR BRICK REST DIRECTLY ON VALVE ASSEMBLY. TYPICAL ALL VALVES.
3. THIS DESIGN FOR VALVES LESS THAN TWELVE (12) INCHES ONLY.
4. DIMENSIONS SHOWN ARE TYPICAL AND MAY VARY ACCORDINGLY FOR ALTERNATE VALVE BOX MANUFACTURER'S.

VALVE BOX (4" - 12" VALVES)

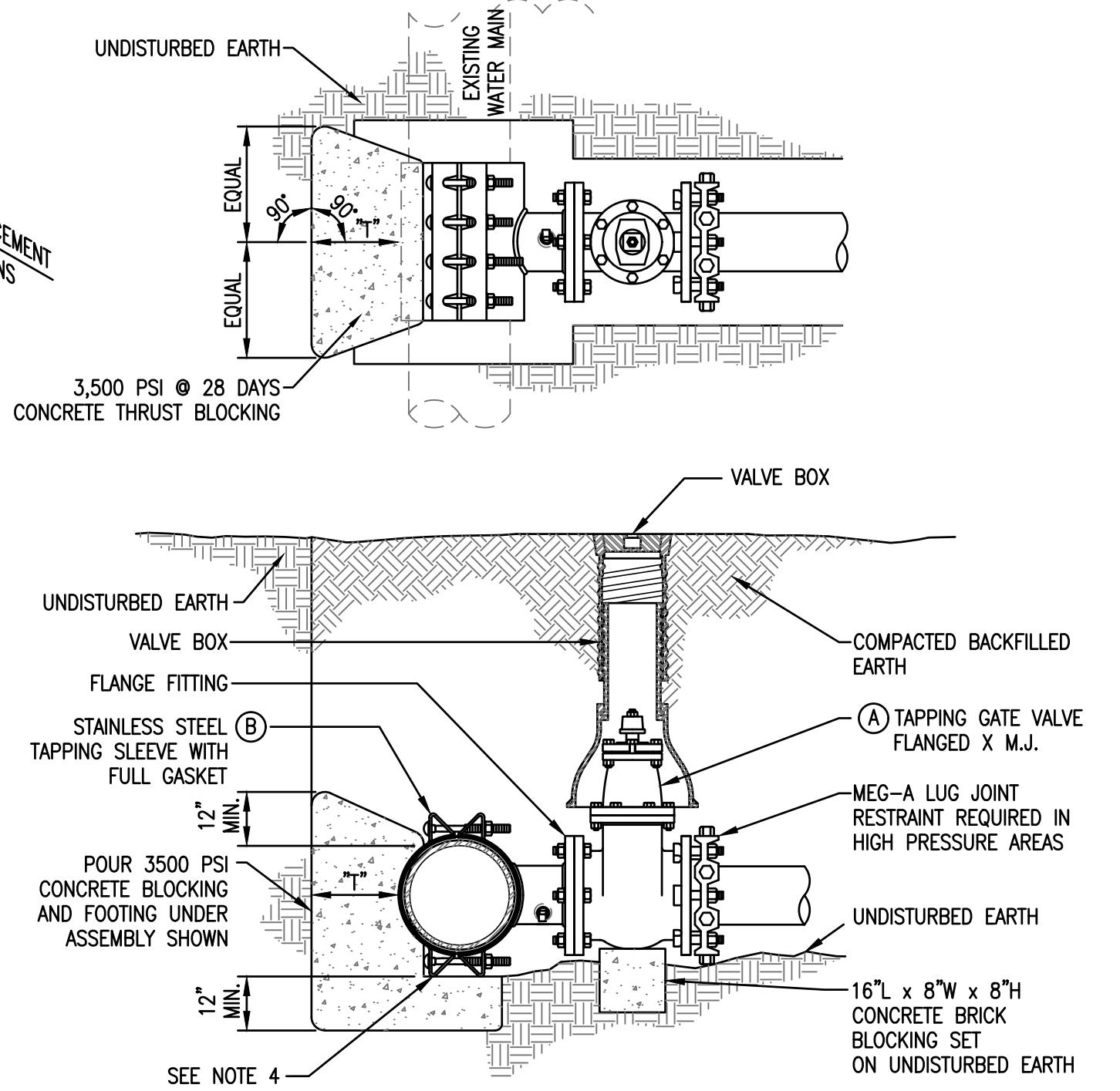


PART	MANUFACTURER MODEL / CAT. NO.
(A) AWWA C-502-05 FIRE HYDRANT	MUELLER CENTURION CLOW
(B) AWWA C-509-01 MECHANICAL JOINT RESILIENT SEAT GATE VALVE	MUELLER CLOW
(C) VALVE BOX	FORD BINGHAM & TAYLOR

NOTES:

1. FIRE HYDRANTS SHALL CONFORM TO THE REQUIREMENTS OF THE AWWA STANDARD C502-05 AND C550-05. THE HYDRANT WILL BE A TRAFFIC MODEL, TWO (2) 2 1/2" HOSE AND ONE (1) 4 1/2" PUMP NOZZLE WITH A 5 1/4" BARREL, FOR INSTALLATION IN A FIVE (5) FOOT DEEP TRENCH.
2. EXECUTION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE ILLINOIS STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION AND ILLINOIS PLUMBING CODE.
3. MANUFACTURER'S ARE SUGGESTED SUPPLIERS, BUT MUST BE APPROVED BY THE LOCAL WATER JURISDICTION.

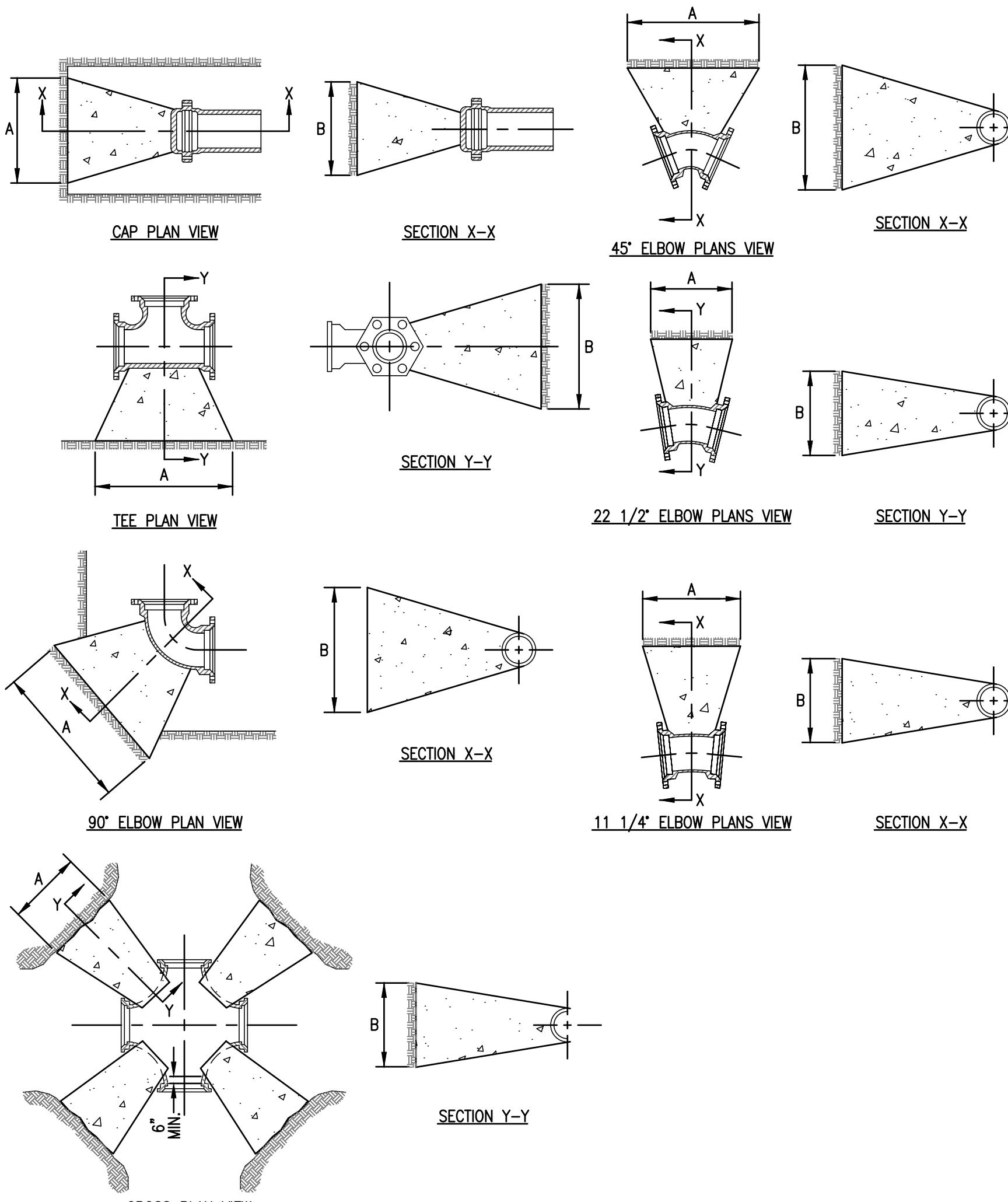
FIRE HYDRANT WITH RESILIENT SEAT GATE VALVE



REF	PART	DESCRIPTION
(A)	TAPPING GATE VALVE	MUELLER T-2380, OR CLOW RESILIENT WEDGE TAPPING VALVE WITH FLANGED/M.J. APPURTENANT END FITTING OR EQUIVALENT. VALVE SHALL BE RATED AT 250 PSI.
(B)	TAPPING SLEEVE (STAINLESS STEEL)	TAPPING SLEEVE SHALL BE TYPE 304 STAINLESS STEEL WITH CARBON STEEL FLANGE, RONAC MODEL SST III, FORD MODEL FTSS WITH CARBON STEEL FLANGE, OR APPROVED EQUIVALENT. SLEEVE SHALL BE RATED AT 250 PSI AND SHALL BE FITTED WITH A TEST PLUG.

NOTES:
1. TAPPING SLEEVE AND VALVE SHALL BE FULL PORT TO ACCEPT FULL SIZE SHELL CUTTER.
2. STEEL FLANGE SHALL MEET AWWA C207.
3. CONCRETE BLOCKING FORMED TO ENSURE ACCESSIBILITY TO FITTINGS AND Poured AGAINST UNDISTurbed EARTH.
4. FITTINGS AREA TO BE COMPLETELY WRAPPED WITH PLASTIC, PRIOR TO POURING CONCRETE.
5. CONCRETE TO BE MINIMUM 3,500 PSI. @ 28 DAYS.

TAPPING SLEEVE AND TAPPING VALVE (IF NECESSARY)



REQUIRED BEARING AREA ON UNDISTurbed SOIL AND TYPICAL DIMENSIONS

PIPE SIZE	CROSSES/90° BENDS	45° BENDS		11 1/4° BENDS		22 1/2° BENDS		TEES AND PLUGS	
		AREA SQ. FT.	"A"	"B"	AREA SQ. FT.	"A"	"B"	AREA SQ. FT.	"A"
6	5	30°	24°	2.7	22°	18°	0.7	10°	14°
8	8.9	43°	30°	4.8	29°	24°	1.2	15°	12°
10	13.9	56°	36°	7.5	36°	30°	1.9	23°	12°
12	20	69°	42°	10.8	43°	36°	2.8	25°	16°
14	27.2	82°	48°	14.7	50°	42°	3.8	30°	18°
16	35.5	95°	54°	19.2	58°	48°	4.9	30°	24°
20	55.5	133°	60°	30.1	80°	54°	7.7	37°	30°

Surface area of bearing soil provided is for 200 psi maximum line pressure including surge pressure and 2000 pounds per square foot soil bearing. Locations where pressure is higher or soil strength is potentially lower consult engineer for recommended adjustments. A factor of safety of 1.25 has been applied to the computed dimensions.

NOTES:

1. COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR 42" MINIMUM, 72" MAXIMUM ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
2. THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTurbed SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
3. NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES.
4. THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
5. BASED ON 150 PSI STATIC PRESSURE PLUS 50 PSI WATER HAMMER AND 2000 PSF SOIL BEARING.
6. POLYETHYLENE ENCASEMENT SHALL BE PROVIDED ON ALL D.I. PIPE AND FITTINGS.
7. PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
8. ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
9. ALL ANCHOR BOLTS SHALL BE GALVANIZED STEEL, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH ASPHALT CEMENT AFTER CONCRETE HAS SET.
10. ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPEd PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
11. THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
12. PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE MIN. 3500 PSI CLASS SI CONCRETE.
13. FOR UNSTABLE SOIL CONDITIONS, CHECK WITH ENGINEER FOR THRUST BLOCK DIMENSIONS.
14. FOR MAIN SIZES GREATER THAN 20", SEE ENGINEER FOR THRUST BLOCK DIMENSIONS.

THRUST BLOCKS FOR HORIZONTAL BENDS, TEES, AND CAPS

ILLINOIS	SWANSEA COLUMBIA GLEN CARBON PEORIA
MISSOURI	ST. CHARLES ST. LOUIS COLUMBIA
TENNESSEE	NASHVILLE CHATTANOOGA

THOUVENOT, WADE & MOERCHEN, INC.

 SWANSEA OFFICE
4940 OLD COLLINSVILLE RD.
SWANSEA, ILLINOIS
62226-2025
TEL (618) 624-4488
WWW.TWM-INC.COM

 PROF. LICENSE NUMBER
IL. PROF. DESIGN FIRM 184-001220
IL. PROF. ENGR. CORP. 62-035370
IL. PROF. STR. ENGR. CORP. 81-005202
IL. PROF. LAND SURV. CORP. 048-000029
KS. PROF. ENGR. FACILITY E-3256
MO. PROF. ENGR. CORP. 001528
MO. LAND SURVEYING CORP. 000346
TN. PROF. ENGR. FIRM 8974

SEAL

 SIGNATURE:
DATE SIGNED:
LICENSE EXPIRATION:

 ISSUED FOR REVIEW
AUGUST 14, 2023

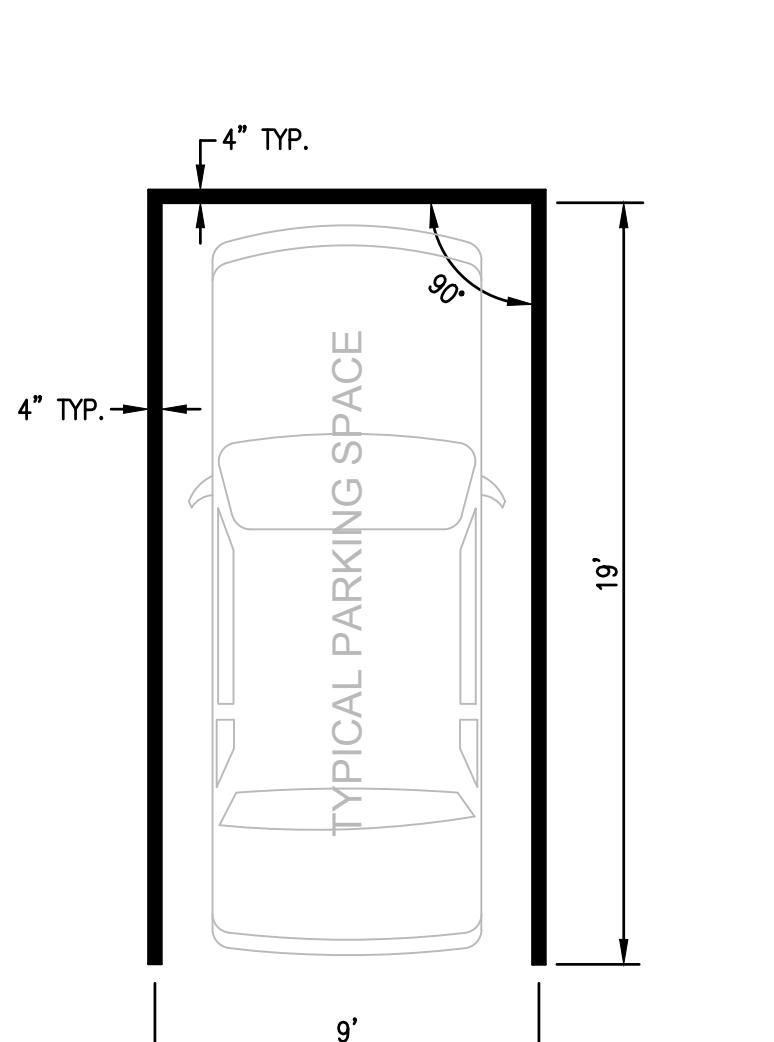
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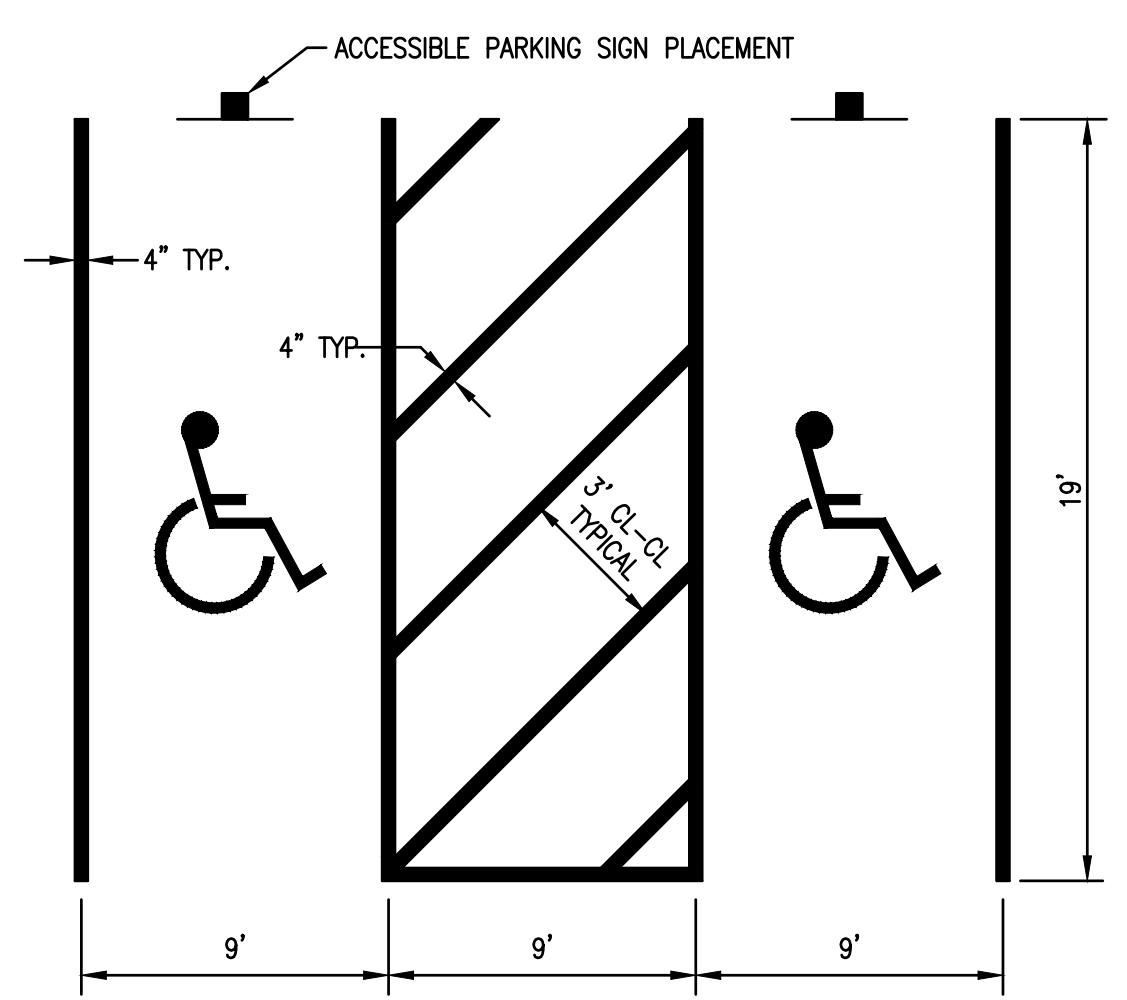
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DESIGNED BY: DLL
CHECKED BY: DLL
APPROVED BY: MJM
PROJECT NO: D10150464F

 PROJECT:

ORCHARD TOWN CENTER
OUTPARCEL 13
VILLAGE OF GLEN CARBON
MADISON COUNTY, ILLINOIS

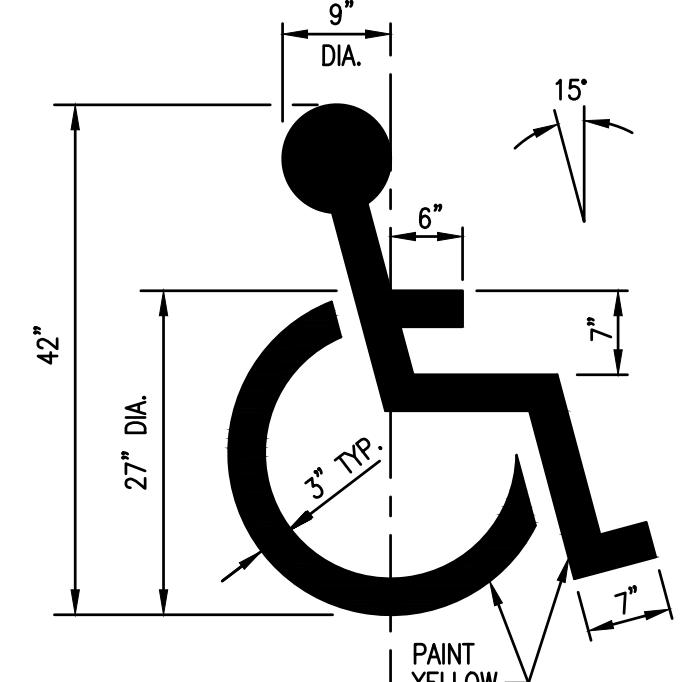
 TITLE:

ACCESSIBILITY
DETAILS

 NOTE:
PAVEMENT MARKING TO BE PAINTED UTILIZING I-DOT WHITE PAINT APPLIED PER I-DOT STANDARD SPECIFICATIONS.
ALL SURFACES TO BE PAINTED SHALL BE CLEAN, DRY, AND AIR BLASTED PRIOR TO PAINTING.

PAVEMENT MARKING


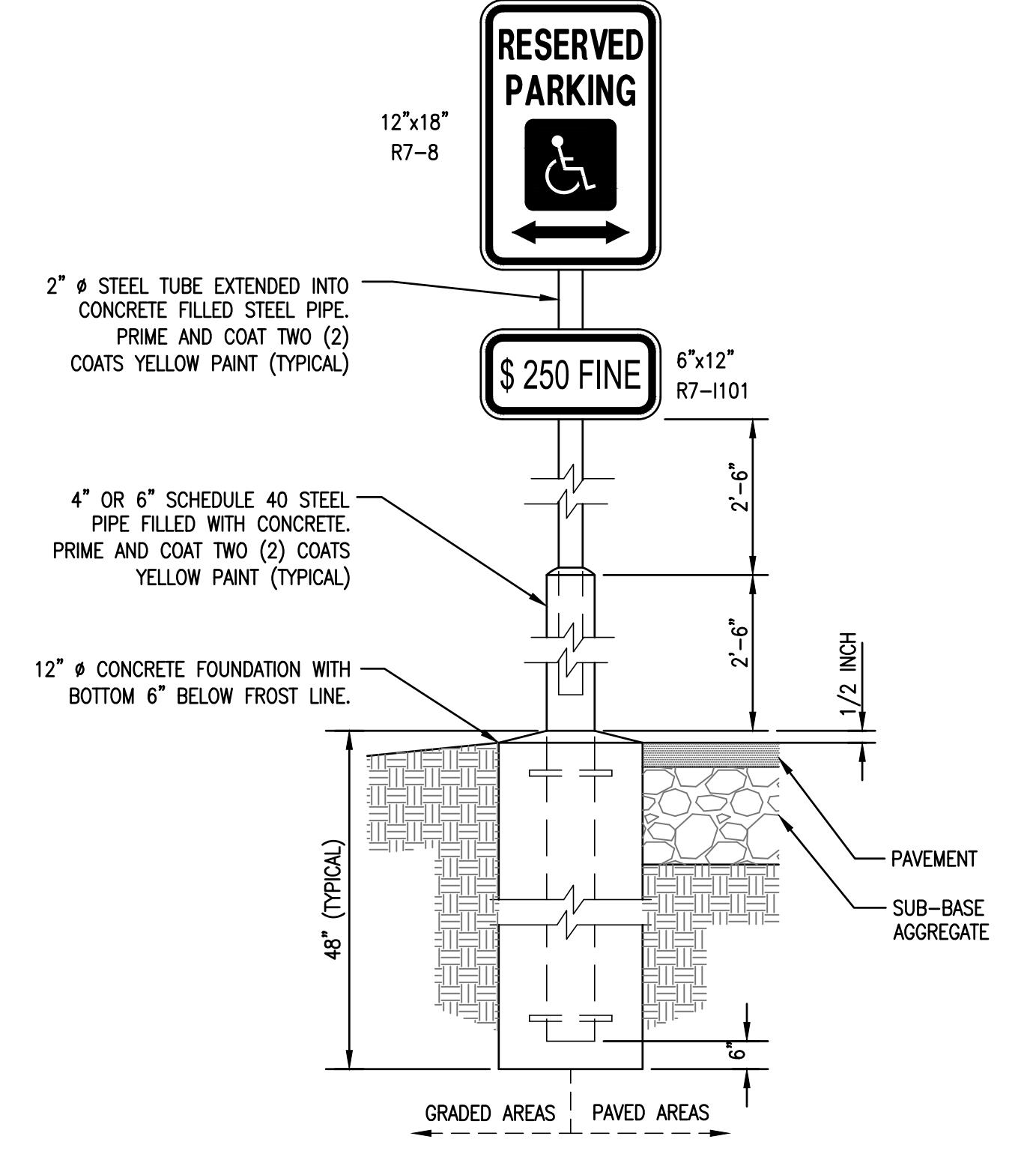
NOTES:

1. ACCESSIBLE PARKING SPACES SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT.
2. THE SURFACE PLANE OF ACCESSIBLE PARKING SPACES SHALL HAVE SLOPES LESS THAN 2.0% IN ALL DIRECTIONS.
3. ALL SURFACES TO BE PAINTED SHALL BE CLEANED AND AIR BLASTED PRIOR TO BEING PAINTED.
4. ACCESSIBLE PARKING SPACE PAVEMENT MARKINGS TO BE PAINTED YELLOW PER THE I-DOT STANDARD SPECIFICATIONS.

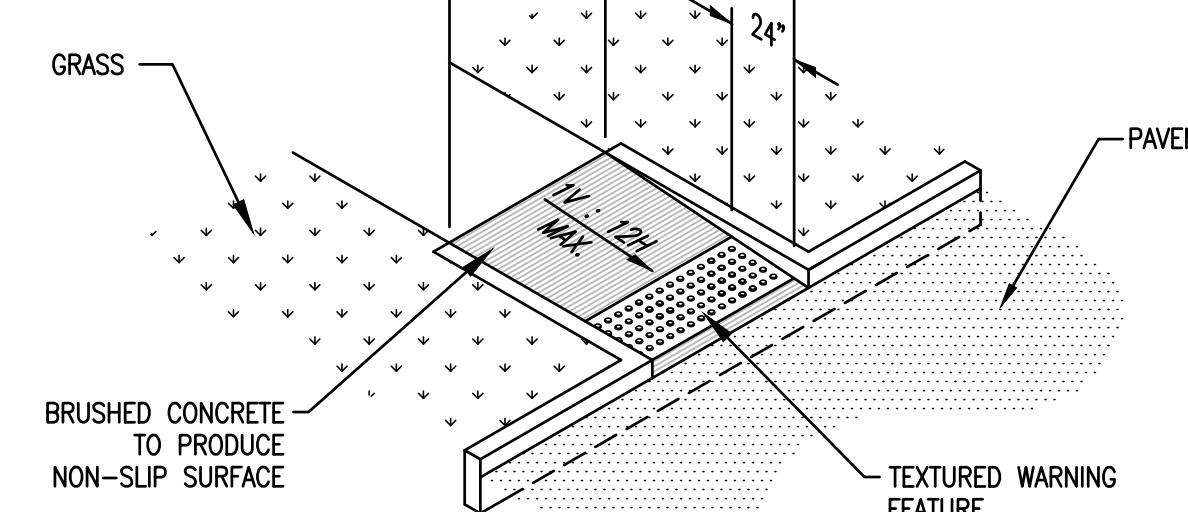
ACCESSIBLE PARKING SPACE PAVEMENT MARKINGS


NOTES:

1. ACCESSIBLE PARKING SYMBOL TO BE PAINTED WITH I-DOT YELLOW PAINT PER I-DOT STANDARD SPECIFICATIONS.
2. PAINTED ACCESSIBLE SYMBOL TO BE PLACED IN LOCATIONS AS DETAILED ON THE SITE PLAN.

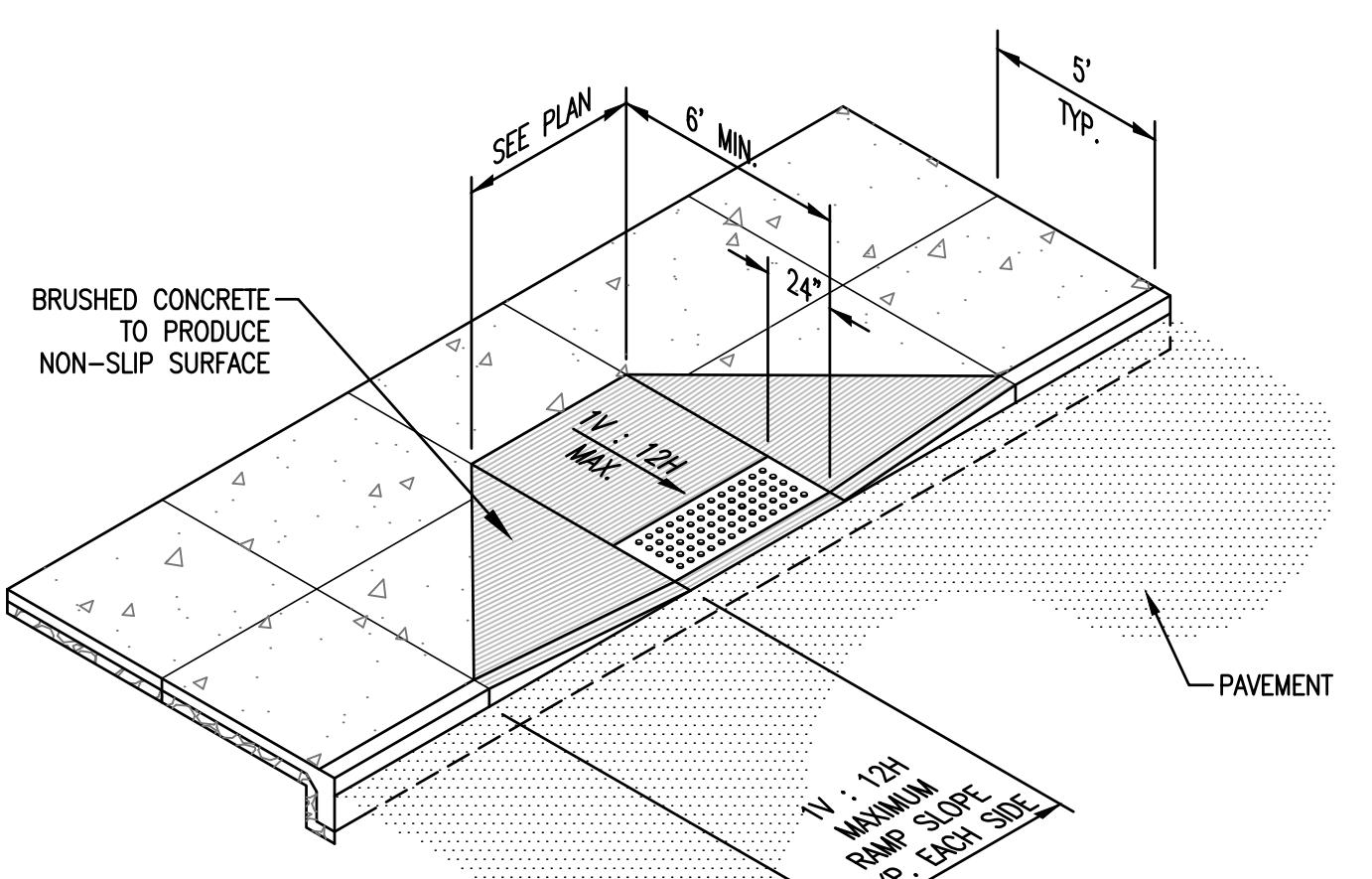
ACCESSIBILITY SYMBOL PAVEMENT MARKING


NOTE:
1. ACCESSIBLE SIGNS AND POSTS TO CONFORM WITH U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE AMERICANS WITH DISABILITIES ACT.

ACCESSIBLE RESERVED PARKING SIGN AND POST


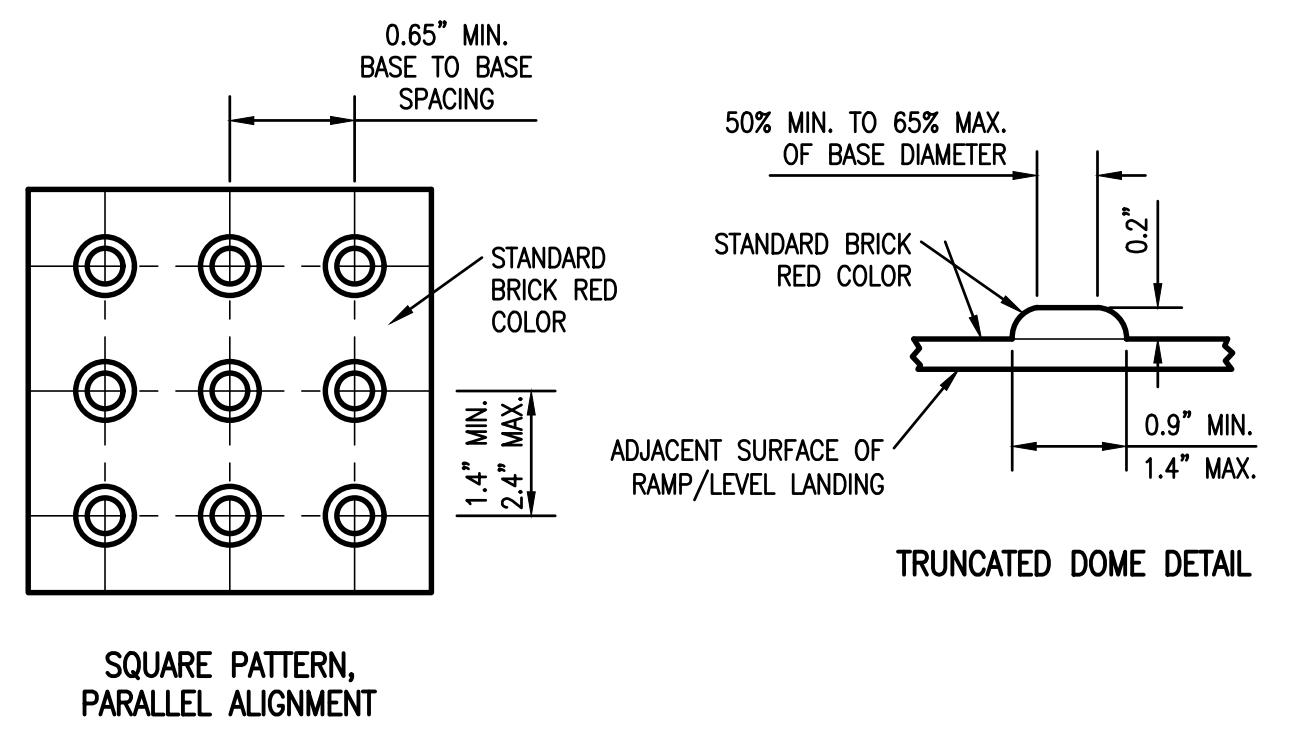
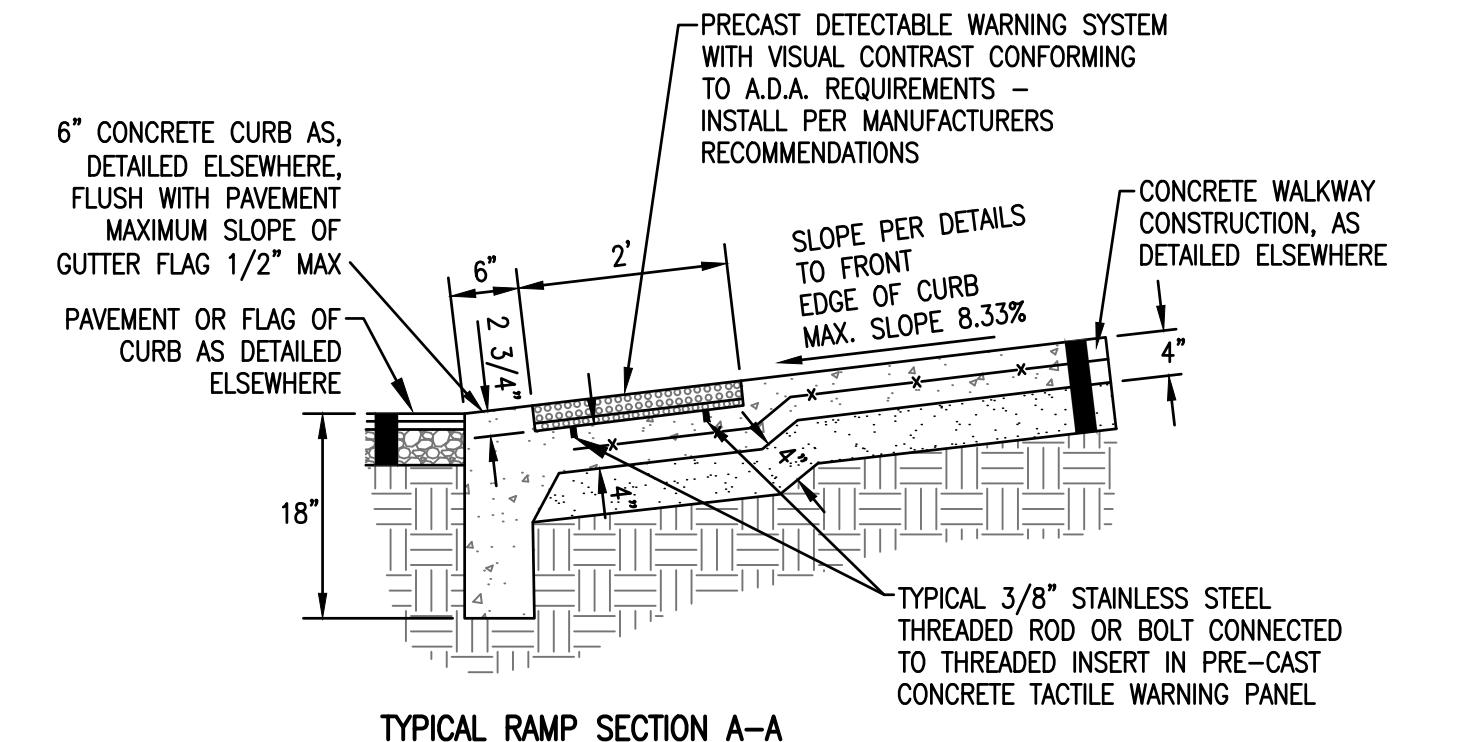
NOTES:

1. DETECTABLE WARNINGS SHALL BE INSTALLED AT CURB RAMPS, MEDIANES, AND PEDESTRIAN REFUGE ISLANDS, AT GRADE RAILROAD CROSSINGS, TRANSIT PLATFORM EDGES, AND OTHER LOCATIONS WHERE PEDESTRIANS ARE REQUIRED TO CROSS A HAZARDOUS VEHICULAR WAY. DETECTABLE WARNINGS SHALL ALSO BE INSTALLED AT ALLEYS AND COMMERCIAL ENTRANCES WHEN PERMANENT TRAFFIC CONTROLS ARE PRESENT.
2. ALL RAMP MATERIALS, INSTALLATION, AND WORKMANSHIP SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.

ACCESSIBLE RAMP - IDOT TYPE A


NOTES:

1. DETECTABLE WARNINGS SHALL BE INSTALLED AT CURB RAMPS, MEDIANES, AND PEDESTRIAN REFUGE ISLANDS, AT GRADE RAILROAD CROSSINGS, TRANSIT PLATFORM EDGES, AND OTHER LOCATIONS WHERE PEDESTRIANS ARE REQUIRED TO CROSS A HAZARDOUS VEHICULAR WAY. DETECTABLE WARNINGS SHALL ALSO BE INSTALLED AT ALLEYS AND COMMERCIAL ENTRANCES WHEN PERMANENT TRAFFIC CONTROLS ARE PRESENT.
2. THE MAXIMUM SLOPE OF THE SIDE FLARE FOR TYPE B RAMPS SHALL BE 1V : 10H, HOWEVER, IF THE WIDTH OF THE LANDING AREA BETWEEN THE TOP OF THE RAMP AND AN OBSTRUCTION IS LESS THAN 4.0 FEET, THEN THE MAXIMUM SLOPE SHALL BE 1V : 12H.
3. ALL RAMP MATERIALS, INSTALLATION, AND WORKMANSHIP SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.

ACCESSIBLE RAMP - IDOT TYPE B

 SQUARE PATTERN,
PARALLEL ALIGNMENT


TYPICAL RAMP SECTION A-A

ACCESSIBLE RAMP CONSTRUCTION

