

GENERAL NOTES

- DEFINITION OF TERMS:
 - THE CONTRACTOR IS THE INDIVIDUAL, FIRM, PARTNERSHIP, OR CORPORATION CONTRACTING WITH THE OWNER FOR PERFORMANCE OF THE PRESCRIBED WORK.
 - THE OWNER IS THE INDIVIDUAL, FIRM, PARTNERSHIP, OR CORPORATION HAVING THE AUTHORITY TO AWARD THE CONTRACT FOR THE PRESCRIBED WORK.
 - THE ENGINEER WHERE SPECIFICALLY REFERRED TO IN THE SPECIAL PROVISIONS SHALL BE THE OWNER'S REPRESENTATIVE.
- ALL CONTRACTORS SHALL BE RESPONSIBLE FOR THE FOLLOWING, WHICH SHALL ALSO BE INCIDENTAL TO THE COST OF CONSTRUCTION:
 - EXAMINATION OF THE ENGINEERING PLANS AND SPECIFICATIONS AND THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING A BID, AND NOTIFYING THE ENGINEER AT ONCE OF ANY DISCREPANCIES.
 - THE OBTAINING OF ANY NECESSARY PERMITS NOT PREVIOUSLY APPLIED FOR BY THE OWNER, AND POSTING OF THE NECESSARY BONDS.
 - THE NOTIFICATION OF THE START OF CONSTRUCTION TO ALL JURISDICTIONAL AGENCIES, UTILITY COMPANIES, AND THE ENGINEER, AT LEAST TWO (2) WORKING DAYS PRIOR TO SAID START. ALL EXISTING UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION AND BE PROTECTED DURING CONSTRUCTION.
 - CALLING ATTENTION TO THE OWNER OF ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES WHICH ARE ESTABLISHED BY THE OWNER. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THE LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE OWNER. ADDITIONAL STAKING THAT MAY BE REQUIRED DUE TO CONTRACTOR NEGLIGENCE SHALL BE PAID FOR BY THE CONTRACTOR.
 - THE PROVIDING OF SAFE AND HEALTHFUL WORKING CONDITIONS THROUGHOUT THE PROSECUTION OF THE CONSTRUCTION WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE REMOVAL OF DEBRIS, THE PROTECTING OF CONSTRUCTION HAZARDS WITH BARRICADES, AND THE KEEPING OF PUBLIC STREET PAVEMENTS CLEAN OF CONSTRUCTION DIRT AND DEBRIS.
 - THE RESTORATION TO THE ORIGINAL CONDITION OR BETTER OF ANY OFFSITE AREAS THAT ARE DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION.
 - THE TESTING OF MATERIALS, IF REQUIRED BY THE OWNER AND/OR THE JURISDICTIONAL AGENCIES.
 - THE GUARANTEE OF ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR UPON FINAL ACCEPTANCE BY THE OWNER AND THE JURISDICTIONAL AGENCIES.
 - THE TRAFFIC CONTROL AND PROTECTION OF ALL WORK CONDUCTED WITHIN PUBLIC RIGHTS-OF-WAY, SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARTICLES OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012, AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND "ILLINOIS SUPPLEMENT TO THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
 - 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.
- THE OWNER SHALL BE RESPONSIBLE FOR THE FOLLOWING:
 - SCHEDULING THE NECESSARY PRE-CONSTRUCTION MEETING(S) WITH THE JURISDICTIONAL AGENCIES.
 - PROVIDING THE CONTRACTOR WITH ONE (1) SET OF CONTROL LINE AND GRADE STAKES (AT OFFSETS MUTUALLY AGREED UPON) FOR THE PROPER PROSECUTION AND CONTROL OF THE WORK.
 - APPLYING FOR IEPA AND IDNR PERMITS. OTHER NECESSARY PERMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING:
 - TO PERIODICALLY VISIT THE CONSTRUCTION SITE IN ORDER TO BETTER CARRY OUT THE DUTIES AND RESPONSIBILITIES ASSIGNED BY THE OWNER AND UNDERTAKEN BY THE ENGINEER.
 - THE ENGINEER SHALL NOT, DURING SUCH VISITS OR AS A RESULT OF SUCH OBSERVATIONS OF THE CONTRACTOR(S) WORK IN PROGRESS, SUPERVISE, DIRECT, OR HAVE CONTROL OVER THE CONTRACTOR(S) WORK. NOR SHALL THE ENGINEER HAVE AUTHORITY OVER OR RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR(S), FOR SAFETY PRECAUTIONS AND PROGRAMS INCIDENT TO THE WORK OF THE CONTRACTOR(S), OR FOR ANY FAILURE OF THE CONTRACTOR(S) TO COMPLY WITH LAWS, RULES, REGULATIONS, ORDINANCES, CODES OR ORDERS APPLICABLE TO THE CONTRACTOR(S) FURNISHING AND PERFORMING THEIR WORK. ACCORDINGLY, THE ENGINEER CAN NEITHER GUARANTEE THE PERFORMANCE OF THE CONSTRUCTION CONTRACTS BY THE CONTRACTOR(S) NOR ASSUME RESPONSIBILITY FOR THE CONTRACTOR(S) FAILURE TO FURNISH AND PERFORM THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

STANDARD SPECIFICATIONS

- THE STANDARD SPECIFICATIONS WHICH APPLY TO THE CONSTRUCTION WORK AS SHOWN ON THE ENGINEERING PLANS ARE CONTAINED IN THE FOLLOWING DOCUMENTS:
 - "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS ADOPTED JANUARY 1, 2012 BY THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION.
 - "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AS ADOPTED JULY 2009 BY THE ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, ET AL.
 - STANDARD SPECIFICATIONS AS CURRENTLY IN EFFECT BY THE LOCAL JURISDICTIONAL AGENCY.
- IN THE EVENT OF A CONFLICT BETWEEN STATEMENTS WHICH APPLY TO THE CONSTRUCTION WORK, THE STATEMENT CONTAINED WITHIN THE DOCUMENT FIRST ENUMERATED BELOW SHALL GOVERN:
 - SPECIAL PROVISIONS
 - GENERAL NOTES
 - NOTES AND DETAILS ON THE ENGINEERING PLANS
 - STANDARD SPECIFICATIONS, AS DEFINED IN PARAGRAPH 1 ABOVE.

SPECIAL PROVISIONS

- EARTHWORK IMPROVEMENTS**
 - TOPSOIL EXCAVATION INCLUDES:**
 - EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL, IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS.
 - PLACEMENT OF THE EXCAVATED MATERIAL IN OWNER DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL.
 - COMPACTION OF THE EXCAVATED MATERIAL WHERE PLACED IN AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL, SHALL BE MODERATE.
 - EXCESS MATERIALS, IF NOT UTILIZED AS FILL OR IF NOT STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTOR.
 - EARTH EXCAVATION INCLUDES:**
 - 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 FEET (3) OF THE PLAN SUBGRADE ELEVATIONS. THE (3) TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIAL SHALL "BALANCE" AS PART OF THE FINE GRADING OPERATION.
 - PLACEMENT OF THE EARTH AND OTHER SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL. IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.3 FEET (3), THE FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE THE REQUIRED COMPACTION. EARTH MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE BUILDING SITE NOT REQUIRING STRUCTURAL FILL TO WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THE EARTH MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.
 - COMPACTION OF THE EARTH AND OTHER SUITABLE MATERIALS, SHALL BE TO AT LEAST 95% OF THE STANDARD PROCTOR DRY DENSITY, ASTM 698 WITHIN PROPOSED PAVEMENT AND BUILDING AREAS. MODERATE COMPACTION IS REQUIRED ELSEWHERE.
 - EXCESS MATERIALS, IF NOT UTILIZED AS FILL, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTOR.
- UNSUITABLE MATERIAL**
 - UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, THAT IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL, AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.
- GENERAL**

THE GRADING 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.

- SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.
- SCARIFY AND COMPACT TO THE DEGREE SPECIFIED THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL, IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.
- PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.
- BE RESPONSIBLE FOR IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS ASSIGNED TO THE GRADING CONTRACTOR ON THE ENGINEERING PLAN.

E. TESTING AND FINAL ACCEPTANCE

- THE CONTRACTOR SHALL PROVIDE AS A MINIMUM, A FULLY LOADED SIX-WHEEL TRUCK FOR PLOTTING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND THE BASE MATERIAL.
- SPECIFIC COMPACTION TESTING MAY BE REQUIRED BY THE OWNER IN SELECTED FILL AREAS. THE CONTRACTOR SHALL BEAR THE COST OF ANY COMPACTION TESTING WHICH DOES NOT MEET SPECIFICATION AS WELL AS THE RESPONSIBILITY AND COST FOR THE NECESSARY CORRECTIONS(S).
- APPROVAL OF THE PAVEMENT SUBGRADE BY THE OWNER SHALL BE REQUIRED PRIOR TO THE PLACEMENT OF THE PAVEMENT MATERIALS.

F. METHOD OF MEASUREMENT

- AS-BUILT MEASUREMENTS OF EARTHWORK FOR THE PURPOSE OF PAYMENT SHALL NOT APPLY. THE QUANTITIES SHOWN IN THE ENGINEER'S "QUANTITY ESTIMATE" SHALL BE UTILIZED UNLESS SAID QUANTITIES ARE ADJUSTED BY MUTUAL CONSENT OF THE OWNER AND CONTRACTOR PRIOR TO THE SIGNING AND ACCEPTANCE OF A CONTRACT.
- THE QUANTITIES AS SHOWN IN THE ENGINEER'S "QUANTITY ESTIMATE" ARE THOSE ESTIMATED BY THE ENGINEER AND ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR BY CHOOSING TO UTILIZE THESE QUANTITIES IN THE PREPARATION OF HIS "LUMP SUM" BID ALSO ACCEPTS THEIR ACCURACY. THE CONTRACTOR IS THEREFORE ENCOURAGED TO MAKE HIS OWN INDEPENDENT EARTHWORK CALCULATION, AND TO VISIT THE SITE PRIOR TO THE PREPARATION OF HIS BID.
- PRIOR TO THE REMOVAL OF UNSUITABLE MATERIAL, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR AUTHORIZATION TO REMOVE SAID MATERIAL. UPON AUTHORIZATION AND REMOVAL, THE UNSUITABLE MATERIAL SHALL BE FIELD MEASURED BY THE ENGINEER IN PLACE.

PAVING IMPROVEMENTS

- FINE GRADING**
 - PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE STREETS SHALL BE FINE GRADED TO WITHIN 0.1 FEET ± OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF THE PROPOSED CURB.
- CURB AND GUTTER**
 - THE CURB AND GUTTER SHALL BE THE TYPE AS DETAILED ON THE ENGINEERING PLANS.
 - THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE.
- PAVEMENT**
 - THE PAVEMENT MATERIALS SHALL BE AS DETAILED ON THE ENGINEERING PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS.
 - BITUMINOUS MATERIALS (PRIME COAT) SHALL BE APPLIED TO THE SURFACE OF THE BASE COURSE AND THE SURFACE OF THE BINDER COURSE PRIOR TO THE PAVING OPERATIONS. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 403.09 OF THE STANDARD SPECIFICATIONS. THE BASE COURSE AND BINDER COURSE SHALL BE DRY AND FREE FROM ANY DUST PRIOR TO APPLYING THE PRIME COAT OF BITUMINOUS MATERIAL. THE COST OF SURFACE PREPARATION SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM OF WORK. THE APPLICATION RATE SHALL BE 0.25 GAL/SY.
- GENERAL**

THE PAVING CONTRACTOR SHALL:

 - REPAIR ANY BASE COURSE AND BINDER COURSE FAILURES PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE.
 - SWEEP CLEAN THE BINDER COURSE PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE. EXCESSIVE CLEANING OF THE BINDER COURSE THAT MAY BE REQUIRED, AND IS NOT THE FAULT OF THE PAVING CONTRACTOR, SHALL BE PAID FOR ON A TIME AND MATERIAL BASIS BY PRIOR AGREEMENT WITH THE OWNER.

E. TESTING AND FINAL ACCEPTANCE

- PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE APPROVED BY THE LOCAL JURISDICTIONAL AUTHORITY. (SEE "TESTING AND FINAL ACCEPTANCE FOR EARTHWORK".)
- PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR IF REQUESTED BY THE OWNER, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL, WHERE DIRECTED BY THE ENGINEER, FOR THE PURPOSE OF THICKNESS VERIFICATION. CORING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STANDARD SPECIFICATION ENTITLED "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". THE COST FOR OBTAINING CORES, WHICH ARE LESS THAN THE MINIMUM THICKNESS SPECIFIED, SHALL BE BORNE BY THE CONTRACTOR. THE COST FOR OBTAINING CORES WHICH MEET OR EXCEED THE SPECIFICATION SHALL BE COVERED BY THE OWNER.
- DEFICIENCIES IN THE BITUMINOUS CONCRETE BINDER COURSE SHALL BE ADJUSTED FOR BY INCREASING THE PLAN THICKNESS OF THE SURFACE COURSE WITH NO ADDITIONAL COST TO THE OWNER.
- FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.

F. METHOD OF MEASUREMENT

- CURB AND GUTTER, AND BASE COURSE SHALL BE MEASURED IN THE FIELD BY THE CONTRACTOR. THE QUANTITIES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION.
- WHEN REQUESTED, DOCUMENTATION FOR THE INSTALLED BASE COURSE, BITUMINOUS CONCRETE BINDER, AND SURFACE COURSE, SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION. DEFICIENCIES IN TOTAL BITUMINOUS CONCRETE PAVEMENT THICKNESS SHALL BE ADJUSTED FOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTIONAL AUTHORITY.

UNDERGROUND IMPROVEMENTS

- SANITARY SEWER MAINS AND SERVICES**
 - MATERIAL** SHALL BE:
 - POLYVINYL CHLORIDE PIPE (PVC), WHICH SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS OF ASTM D-2241-05 (OR LATEST EDITION), SDR-26 AND BE IN ACCORDANCE WITH STANDARD CITY SPECIFICATIONS FOR CONSTRUCTION AND INSTALLATION.
 - DUCTILE IRON PIPE (DIP), WHERE INDICATED ON THE PLANS, WHICH SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS OF ANSII/AWWA C151/AWWA C151/4.21.51-02 (OR LATEST EDITION).
 - JOINTS** SHALL BE:
 - FOR PVC, RING-TITE TYPE, ASTM D-3139-98 (OR LATEST EDITION).
 - FOR DIP, PUSH-ON (BELL-TITE) TYPE, ANSII/AWWA C111/A.21.11-00 (OR LATEST EDITION).
 - JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS, CASCADE CSS, ROMAC LSS, FERNO, INC. SHEAR RING OR APPROVED EQUAL. WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED.
 - BEDDING** SHALL BE AS DETAILED ON THE ENGINEERING PLAN.
 - COVER** OVER THE PIPE SHALL BE AS DETAILED ON THE ENGINEERING PLANS.
 - SLOPE** FOR AN 8-INCH DIAMETER PIPE SHALL BE A MINIMUM OF 0.40%. FOR A 6 INCH DIAMETER PIPE, A MINIMUM OF 1.00%.
 - WYES** SHALL BE PROVIDED ON THE NEW SANITARY SEWERS FOR PROPOSED BUILDING SERVICES. ALL CONNECTIONS TO EXISTING SANITARY SEWERS NOT HAVING WYES SHALL BE MADE WITH A "SEWER TAP" FOR BUILDING SERVICES AND WITH A MANHOLE FOR SEWER EXTENSIONS. ALL TAPS SHALL INCLUDE A PROPERLY INSTALLED HUB WYE SADDLE.
 - "BAND SEAL" OR SIMILAR COUPLINGS SHALL BE USED WHEN JOINING PIPES OF DISSIMILAR MATERIALS.
 - SERVICES SHALL EXTEND FIVE (5) FEET INSIDE THE PROPERTY LINE, OR TO WITHIN FIVE (5) FEET FROM THE FACE OF A PROPOSED BUILDING BEING SERVED (MULTI-FAMILY AND COMMERCIAL DEVELOPMENT). THE TERMINATION POINTS SHALL BE CLEARLY LOCATED WITH A GREEN-TOPPED 4 INCH X 4 INCH STAKE.
 - SIZES** SHALL BE AS INDICATED ON THE ENGINEERING PLAN.

- SANITARY PIPES** WITH LESS THAN 4 FEET OR MORE THAN 25 FEET OF COVER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (CLASS 50, MINIMUM) AND ENCASED IN POLYWRAP.
- MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER WITH THE WORD "SANITARY" IMPRINTED ON THE COVER IN RAISED LETTERS (SEE STANDARD DETAIL SAN-7). FRAMES AND LIDS SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS.
- 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.
- BOLT-DOWN FRAMES AND COVERS SHALL BE NEENAH FOUNDRY R-1916-F.1. EAST JORDAN IRON WORKS 1040 ZPT OR EQUAL APPROVED BY THE CITY ENGINEER. FRAMES ARE TO BE BOLTED TO CONE. BOLT-DOWN FRAMES SHALL BE USED WHERE INDICATED ON THE PLANS.
- MANHOLE FRAMES SHALL BE ADJUSTED TO PROPER GRADE USING REINFORCED, PRECAST CONCRETE OR FIBERIZED RINGS. BRICK OR CONCRETE BLOCKS WILL NOT BE ALLOWED. FIBERIZED ADJUSTING RINGS SHALL BE REQUIRED WHEN FRAME WILL BE WITHIN A ROADWAY AREA. FINAL FRAME ADJUSTMENT FOR MANHOLES WITHIN THE ROADWAY AREA SHALL BE IN ACCORDANCE WITH SECTIONS 602 AND 603 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- ALL MANHOLE FRAMES AND ADJUSTING RINGS SHALL BE SECURELY SEALED TO THE CONE SECTION OR TOP BARREL SECTION OF THE MANHOLE USING RESILIENT, FLEXIBLE, NON-HARDENING, PREFORMED BITUMINOUS MASTIC MATERIAL, CONSAL 102 B OR APPROVED EQUAL. THE MASTIC SHALL BE APPLIED IN SUCH A MANNER THAT NO SURFACE WATER OR GROUND WATER INFLOW CAN ENTER THE MANHOLE THROUGH GAPS BETWEEN THE TOP BARREL SECTION OR CONE SECTION AND THE FIRST ADJUSTING RING, BETWEEN ADJUSTING RINGS, OR BETWEEN THE LAST ADJUSTING RING AND THE MANHOLE FRAME. UP TO 12 INCHES (300 MM) OF ADJUSTING RINGS MAY BE INSTALLED ON A CONE SECTION. NO MORE THAN ONE (2) (50 MM) ADJUSTING RINGS, AND NO MORE THAN TWO ADJUSTING RINGS IN TOTAL SHALL BE USED.
- A CONTINUOUS LAYER OF NON-HARDENING, PREFORMED BITUMINOUS MASTIC MATERIAL, CONSAL 102 B OR APPROVED EQUAL SHALL BE APPLIED TO EACH MANHOLE BARREL CONE AND TOP SECTION TO PROVIDE A WATERIGHT SEAL.

B. WATER MAIN AND SERVICES

- MATERIAL** FOR THE WATER MAIN SHALL BE DUCTILE IRON PIPE, WHICH SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS OF ANSI A21.51, CLASS 52 CEMENT LINED, IF SMALLER THAN 3". WATER SERVICE MATERIAL SHALL BE TYPE "K" COPPER. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE ENCASEMENT.
- JOINTS:**

FOR THE DUCTILE IRON PIPE SHALL BE THE PUSH-ON (BELL-TITE) TYPE

 - 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 ANSII/AWWA C151/A21.51, FOR NOMINAL PIPE SIZES 3" THROUGH 48".
 - EXISTING DUCTILE IRON SYSTEMS FOR RESTRAINING PUSH-ON PIPE BELLS SHALL BE MEGALUG SERIES 1100HD OR FORD SERIES 1390.
 - EXISTING DUCTILE IRON SYSTEMS REQUIRING RESTRAINT SHALL BE MEGALUG SERIES 1100SD (SPLIT MEGALUG) FOR MECHANICAL JOINTS.
 - STAINLESS STEEL NUTS, BOLTS/BOLTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINTS AND OTHER APPURTENANCES BURIED OR IN VALVE VAULT. 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.

FOR TYPE "K" COPPER

 - IF JOINTS ARE REQUIRED DUE TO LENGTH OF SERVICE, THEN ONLY COMPRESSION TYPE COUPLINGS SHALL BE PERMITTED. NO SOLDERED OR FLARED TYPE JOINTS ARE ALLOWED.
- COVER** OVER THE PIPE SHALL BE AS INDICATED ON THE ENGINEERING PLANS.
- POLYETHYLENE ENCASEMENT**, CONFORMING TO AWWA C105 A21.05-05 SHALL BE PROVIDED FOR ALL DUCTILE IRON PIPE.
- SERVICES** SHALL TERMINATE TO WITHIN FIVE (5) FEET FROM THE FACE OF A PROPOSED BUILDING BEING SERVED (MULTI-FAMILY AND COMMERCIAL DEVELOPMENT). THE TERMINATION POINTS SHALL BE CLEARLY LOCATED WITH A BLUE-TOPPED 4-INCH X 4-INCH STAKE.
- SIZES** SHALL BE AS INDICATED ON THE ENGINEERING PLAN.
- STRUCTURES**

- ALL VALVE BOXES, VAULTS, HYDRANTS, AND MANHOLES SHALL NOT BE COVERED WITH CONSTRUCTION DEBRIS AND SHALL REMAIN ACCESSIBLE TO THE RESPECTIVE UTILITY COMPANY.
- 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.
- THE CONTRACTOR SHALL ROTATE AND/OR ADJUST ANY EXISTING AND/OR NEW HYDRANT TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC UTILITIES.
- FIRE HYDRANT SHOULD BE BAGGED "NOT IN SERVICE" UNTIL ALL TESTING AND DISINFECTION HAS BEEN COMPLETED AND NEW WATER MAIN SECTION IS IN SERVICE.
- NEW WATER VALVES, INCLUDING PRESSURE TAP VALVES, ADJACENT TO AN EXISTING WATER MAIN, AND EXISTING WATER MAIN VALVES SHALL NOT BE OPERATED BY THE CITY OF NAPERVILLE, DEPARTMENT OF PUBLIC UTILITIES CEE/C DIVISION PERSONNEL WITH 48-HOUR NOTICE (MONDAY-FRIDAY), CONTACT NAPERVILLE DPU-W AT 630-420-4122 FOR SCHEDULING.
- ALL BRASS COMPONENTS SHALL BE CERTIFIED TO BE LEAD FREE IN COMPLIANCE WITH NSF 61 AND NSF 372 AND IDENTIFIED WITH APPLICABLE MARKINGS.
- FIRE SERVICE BOXES AND DOMESTIC WATER SERVICES SHALL BE A MINIMUM OF 5' FROM THE BUILDING.

C. STORM SEWER

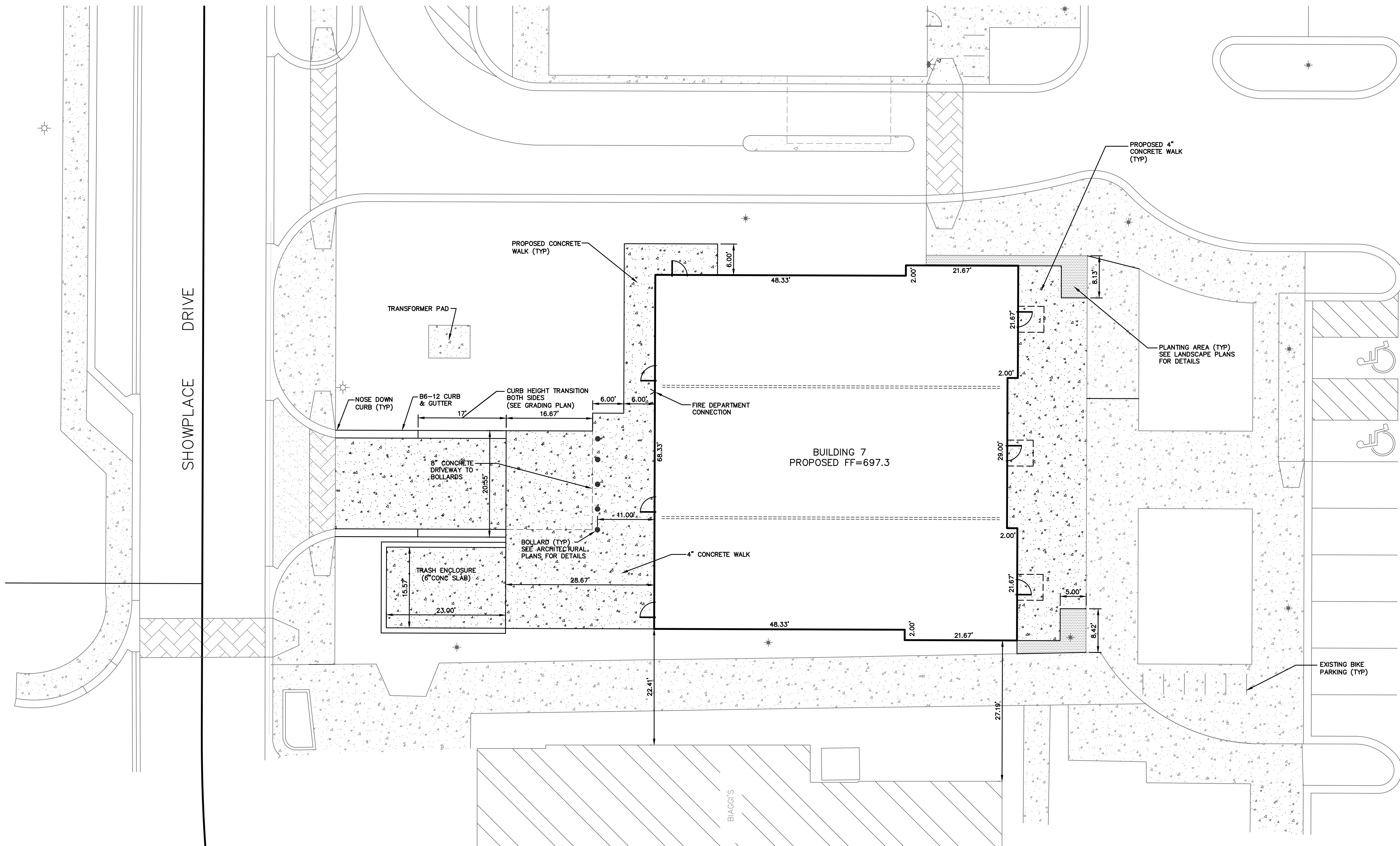
- MATERIAL** SHALL BE:
 - REINFORCED CONCRETE PIPE (RCP), WHICH SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS OF ASTM C-76, CLASS AS INDICATED ON THE ENGINEERING PLANS.
 - DUCTILE IRON PIPE (DIP), WHERE INDICATED ON THE PLANS, WHICH SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS OF ANSI A21.51, CLASS 50 CEMENT-LINED.
- JOINTS** SHALL BE:
 - FOR RCP, BELL AND SPIGOT TYPE WITH BITUMINOUS MASTIC OR ASTM C 361 GASKETED JOINTS WHERE INDICATED ON THE ENGINEERING PLAN.
 - FOR DIP, PUSH-ON (BELL-TITE) TYPE ANSI A21.11.
- FOR PVC, RING-TITE TYPE.
- BEDDING** SHALL BE AS DETAILED ON THE ENGINEERING PLAN.
- SIZE** SHALL BE AS INDICATED ON THE ENGINEERING PLAN.
- TRENCH BACKFILL MATERIAL**
 - TRENCH BACKFILL MATERIAL SHALL CONSIST OF CA-6 AGGREGATE.
 - ALL TRENCHES UNDER OR WITHIN 2' OF AN EXISTING OR PROPOSED CURB AND/OR PAVEMENT ARE TO BE BACKFILLED WITH TRENCH BACKFILL MATERIAL.
 - BACKFILL TRENCHES IN LANDSCAPE AREAS ACCORDING TO THE TYPICAL TRENCH BACKFILL DETAILS.

E. INCIDENTAL TO CONSTRUCTION

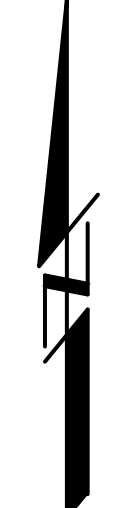
THE UNDERGROUND CONTRACTOR SHALL:

- ADHERE TO THE CRITERIA FOR THE SEPARATION BETWEEN WATER MAINS AND THE STORM AND SANITARY SEWER LINES AS DESCRIBED IN THE "TECHNICAL POLICY STATEMENTS", DIVISION OF PUBLIC WATER SUPPLIES, ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (SEE STANDARD SPECIFICATIONS).
- BE RESPONSIBLE TO PLACE ON GRADE, AND COORDINATE WITH OTHER CONTRACTORS, ALL UNDERGROUND UTILITY STRUCTURE FRAMES SUCH AS MANHOLES, CATCH BASINS, AND INLETS.
- BE AWARE OF POTENTIAL CONFLICTS WITH EXISTING UTILITIES. THE CONTRACTOR SHALL EXCAVATE AROUND THE EXISTING UTILITIES TO DETERMINE THEIR EXACT LOCATION AND ELEVATION PRIOR TO THE CONSTRUCTION OF THE PROPOSED UTILITY IMPROVEMENTS.
- PROVIDE POURED CONCRETE FILLETS CONFORMING TO THE SHAPE OF THE PIPE IN ALL SANITARY AND STORM MANHOLES, AND INLETS.

	BC		
INTECH CONSULTANTS, INC. 1989 UNIVERSITY LANE, SUITE D LISLE, ILLINOIS 60532 PHONE: 630-964-5656	ENGINEERS - SURVEYORS ILLINOIS REGISTRATION No. 184-001040	2-14-20 2 PER CITY REVIEW 1-24-20 1 PER CITY REVIEW	REVISION DATE NO.
NAPERVILLE CROSSINGS STATION, LLC 11501 NORTHLAKE DRIVE CINCINNATI, OH 45249	BUILDING 7 NAPERVILLE CROSSINGS NAPERVILLE, ILLINOIS		
GENERAL NOTES AND SPECIFICATIONS			
SCALE	NONE		
DATE	9-13-19		
DRAWN	BC		
DESIGNED	EFS		
PROJECT NO.	97013A-7		
SHEET	2 OF 9		

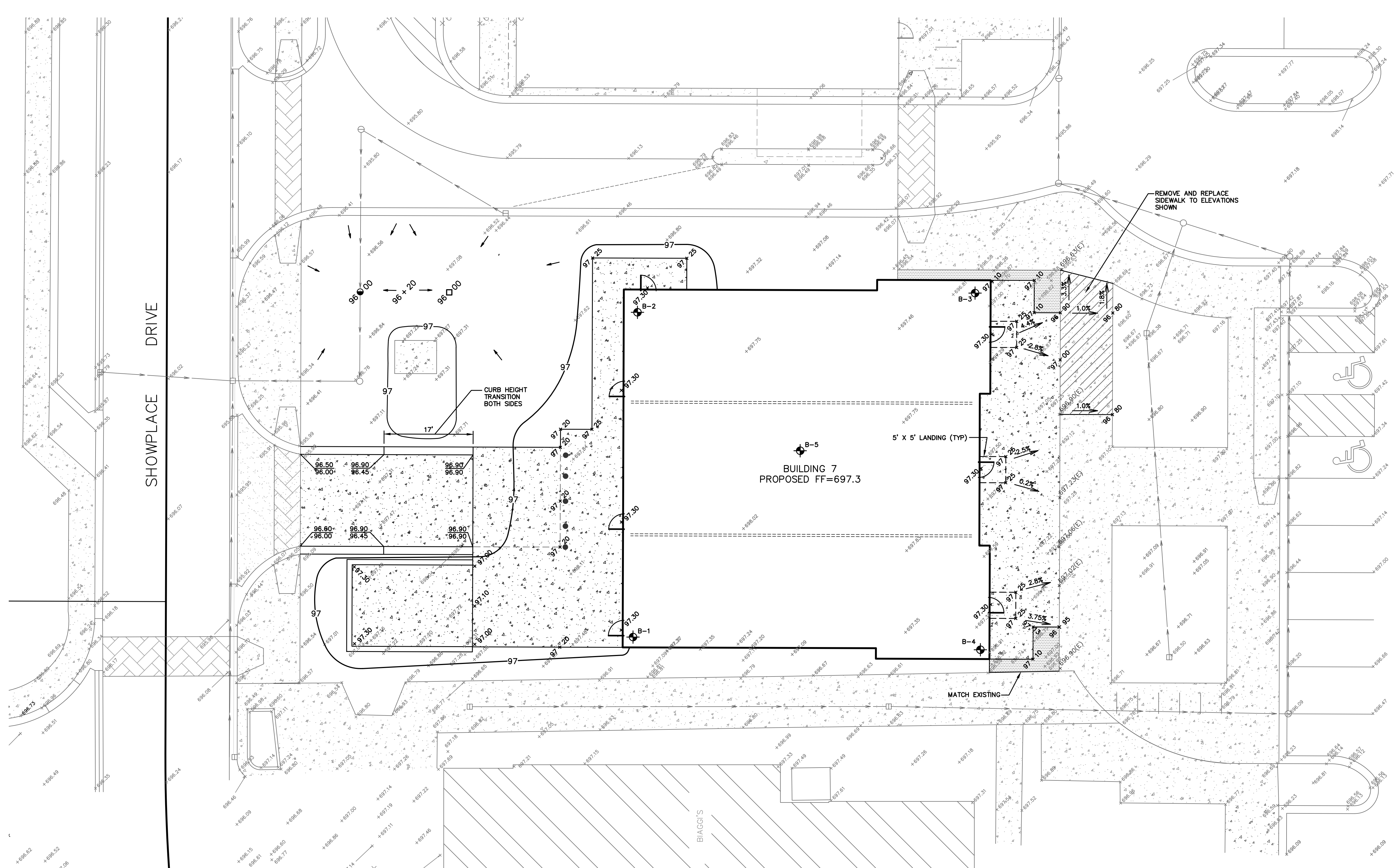


SCALE: 1" = 10'



- PLAN NOTES:**
1. ALL DIMENSIONS ARE TO THE BACK OF CURB OR BUILDING FOUNDATION UNLESS OTHERWISE NOTED.
 2. ALL PROPOSED CURB IS B-6.12 CURB AND GUTTER UNLESS OTHERWISE NOTED.
 3. THE OUTDOOR SEATING AREA & CORRESPONDING WALKWAYS HAVE BEEN DESIGNED BY OTHERS. PLEASE REFER TO THE ARCHITECTURAL PLANS AND LANDSCAPE PLANS FOR ALL ADDITIONAL INFORMATION.

<p>INTECH CONSULTANTS, INC. 1989 UNIVERSITY LANE, SUITE D LISLE, ILLINOIS 60532 PHONE: 630-984-5656</p>		<p>2-14-20 2 PER CITY REVIEW 1-24-20 1 PER CITY REVIEW</p>	<p>BC BC BY</p>
<p>NAPERVILLE CROSSINGS STATION, LLC 11501 NORTHLAKE DRIVE CINCINNATI, OH 45249</p>		<p>DATE NO. REVISION</p>	
<p>BUILDING 7 NAPERVILLE CROSSINGS NAPERVILLE, ILLINOIS</p>		<p>ILLINOIS REGISTRATION NO. 184-001040</p>	
<p>GEOMETRIC PLAN</p>		<p>SCALE 1"=10'</p>	
<p>PROJECT NO. 97013A-7</p>		<p>DATE 9-13-19</p>	
<p>SHEET 3 OF 9</p>		<p>DRAWN BC</p>	
<p>DESIGNED EFS</p>		<p>BY</p>	



SCALE: 1" = 10'

PLAN NOTES:

1. DETENTION HAS PREVIOUSLY BEEN PROVIDED FOR THIS DEVELOPMENT.
BASIN HIGH WATER ELEVATION = 694.30
NORMAL WATER ELEVATION = 688.30
2. EXISTING GRADES AND IMPROVEMENTS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY WITH THE PLAN SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
3. ALL GRADES ARE FINISHED GRADE ELEVATIONS.
4. QUANTITIES SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS TO VERIFY ALL QUANTITIES RELATED TO CONSTRUCTION.
5. ALL RIMS AND INVERTS ARE TO BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION. IF ANY DISCREPANCIES APPEAR, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY.
6. ALL SEWER AND WATER CROSSINGS ARE TO CONFORM TO EPA REGULATIONS FOR PROPER SEPARATION.
7. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, ELECTRIC LINES, TELEPHONE LINES, ETC. AS SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATIONS SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND THEIR FACILITIES SHALL BE LOCATED PRIOR TO ANY WORK.
8. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL EXPOSE ANY UTILITIES OR OTHER OBSTRUCTIONS TO BE CROSSED BY THE PROPOSED SEWER, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS WITH THE PROPOSED SEWER GRADE.
9. ALL FACILITIES FOR THIS DEVELOPMENT SHALL CONFORM TO THE ILLINOIS ACCESSIBILITY CODE & PROWAG AS FOLLOWS: MAXIMUM GRADE ON ALL HANDICAP RAMPS TO BE 1:12 FOR A MAXIMUM RISE OF 6 INCHES. MAXIMUM CROSS SLOPE ON ALL SIDEWALKS SHALL BE LESS THAN OR EQUAL TO 1.5%. A LEVEL LANDING IS REQUIRED ADJACENT TO RAMPS WITH NO MORE THAN 2% IN ALL DIRECTIONS. THE VALLEY OF THE DEPRESSED CURB CANNOT BE GREATER THAN 1/2" FROM THE BACK OF CURB.
10. BORING LOCATIONS SHOWN ARE APPROXIMATE AND ARE TAKEN FROM A REPORT BY TESTING SERVICE CORPORATION DATED 9/11/19.

BC	REVISION
BC	DATE
2-14-20	2 PER CITY REVIEW
1-24-20	1 PER CITY REVIEW
	NO

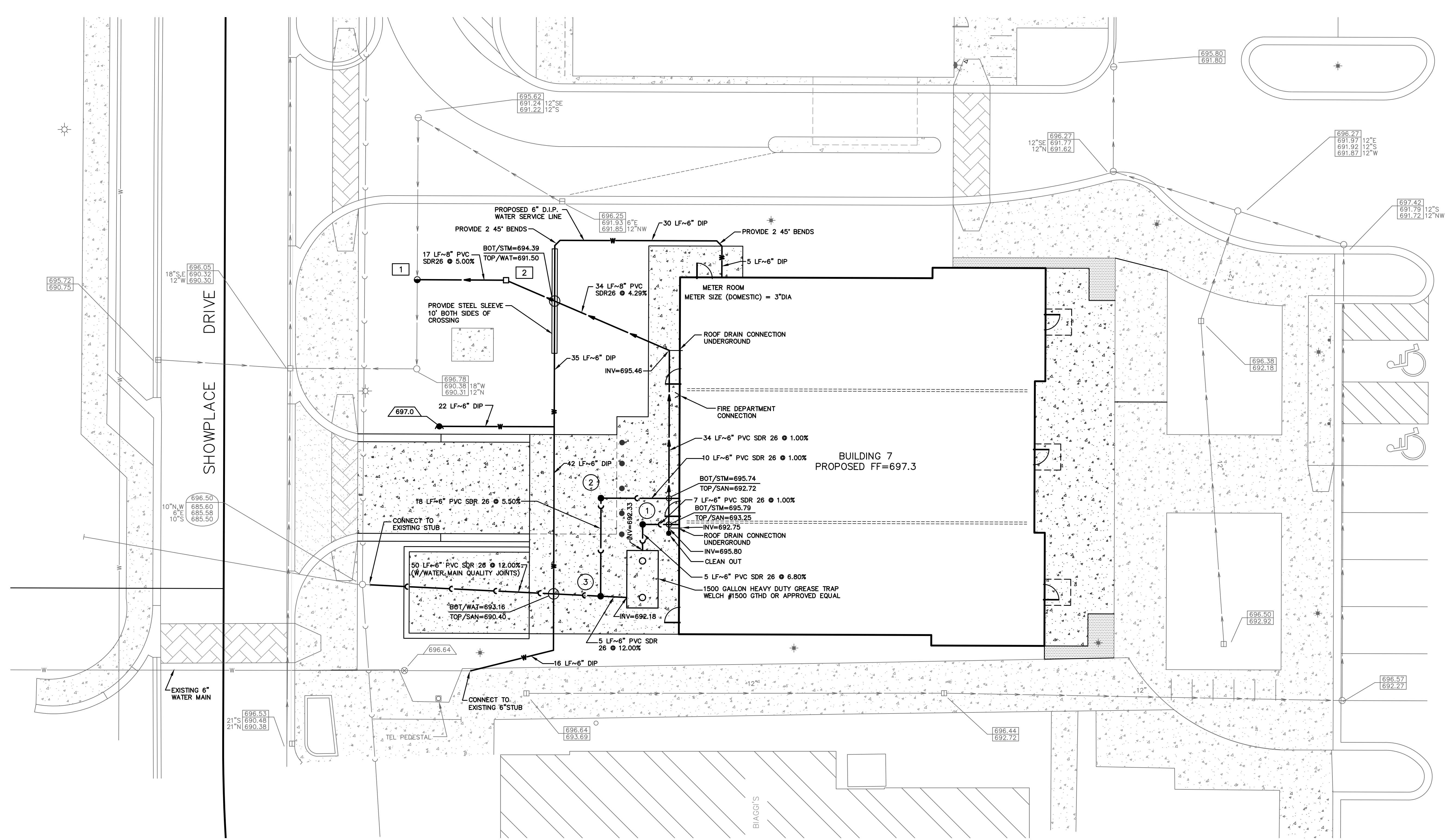
INTECH CONSULTANTS, INC.
 1889 UNIVERSITY LANE, SUITE D
 ENGINEERS - SURVEYORS
 LISLE, ILLINOIS 60532
 PHONE: 630-984-5656
 ILLINOIS REGISTRATION NO. 184-001040

**NAPERVILLE CROSSINGS
 STATION, LLC**
 11507 NORTHLAKE DRIVE
 CINCINNATI, OH 45249

**BUILDING 7
 NAPERVILLE CROSSINGS
 NAPERVILLE, ILLINOIS**

GRADING PLAN	
SCALE	1"=10'
DATE	9-13-19
DRAWN	BC
DESIGNED	EFS
PROJECT NO.	97013A-7
SHEET	4 OF 9

SCALE: 1" = 10'



SANITARY SEWER ○

- ① 48" MANHOLE, C.L.
RIM = 697.25
INV = 692.67
- ② 48" MANHOLE, C.L.
RIM = 697.15
INV = 692.57
- ③ 48" MANHOLE, C.L.
RIM = 697.20
INV = 691.58

STORM SEWER □

- ① 48" MANHOLE, O.L.
RIM = 696.00
INV = 693.15 (8")
INV = 690.63 (12")
- ② 24" INLET, O.L.
RIM = 696.00
INV = 694.00

PLAN NOTES

1. QUANTITIES SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS TO VERIFY ALL QUANTITIES RELATED TO CONSTRUCTION.
2. ALL RIMS AND INVERTS ARE TO BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION. IF ANY DISCREPANCIES APPEAR, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY.
3. ALL SEWER AND WATER CROSSINGS ARE TO CONFORM TO EPA REGULATIONS FOR PROPER SEPARATION. FOR WATERMAIN BENEATH STORM SEWER CROSSINGS, CONTRACTOR TO PROVIDE MINIMUM 18" SEPARATION AND O-RINGED GASKETED PIPE STORM SEWER BETWEEN ADJACENT MANHOLES. IN WATERMAIN CROSSINGS BENEATH SANITARY SEWER, THE CONTRACTOR TO PROVIDE MINIMUM 18" SEPARATION AND BOTH PIPES SHALL BE WATERMAIN QUALITY PIPE. IF THE LINES (STORM OR SANITARY AND WATER) CANNOT MEET THE HORIZONTAL OR VERTICAL SEPARATIONS, THEN BOTH THE SEWER AND WATER LINES SHALL BE WATERMAIN QUALITY PIPE. THE SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING. SEE DETAIL #23 WATER AND SEWER SEPARATION REQUIREMENTS.
4. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, ELECTRIC LINES, TELEPHONE LINES, ETC. AS SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATIONS SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND THEIR FACILITIES SHALL BE LOCATED PRIOR TO ANY WORK.
5. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL EXPOSE ANY UTILITIES OR OTHER OBSTRUCTIONS TO BE CROSSED BY THE PROPOSED SEWER, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS WITH THE PROPOSED SEWER GRADE.
6. FOR ALL LIGHTING INFORMATION, PLEASE REFER TO THE APPROVED PHOTOMETRIC PLAN PREPARED BY OTHERS.

BC	BY
2-14-20	2 PER CITY REVIEW
1-24-20	1 PER CITY REVIEW
DATE	NO.
REVISION	BY

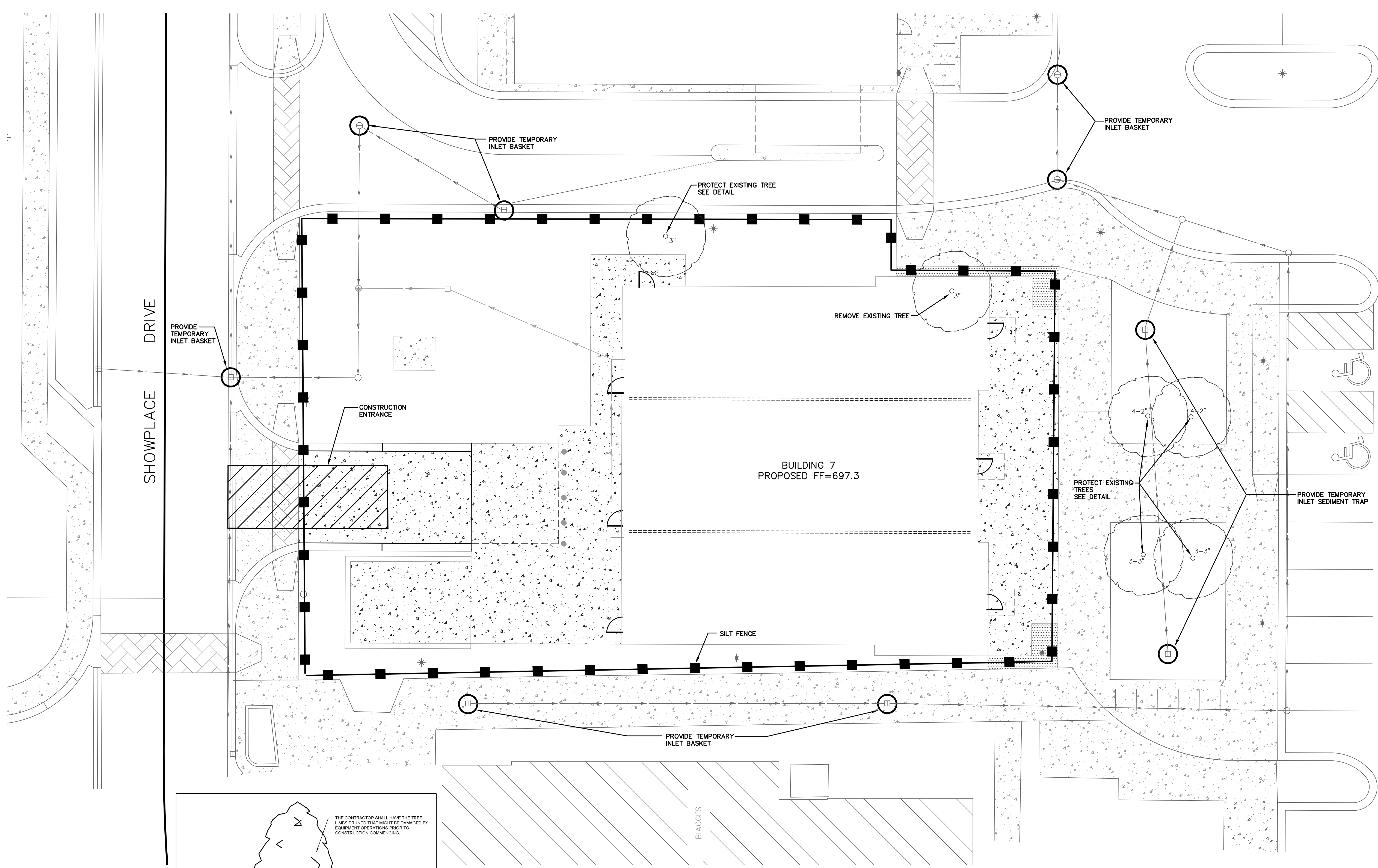
INTECH CONSULTANTS, INC.
 1889 UNIVERSITY LANE, SUITE D
 Lisle, Illinois 60532
 PHONE: 630-964-5666
 ILLINOIS REGISTRATION NO. 184-001040

**NAPERVILLE CROSSINGS
 STATION, LLC**
 11501 NORTHLAKE DRIVE
 CINCINNATI, OH 45249

**BUILDING 7
 NAPERVILLE CROSSINGS
 NAPERVILLE, ILLINOIS**

UTILITY PLAN

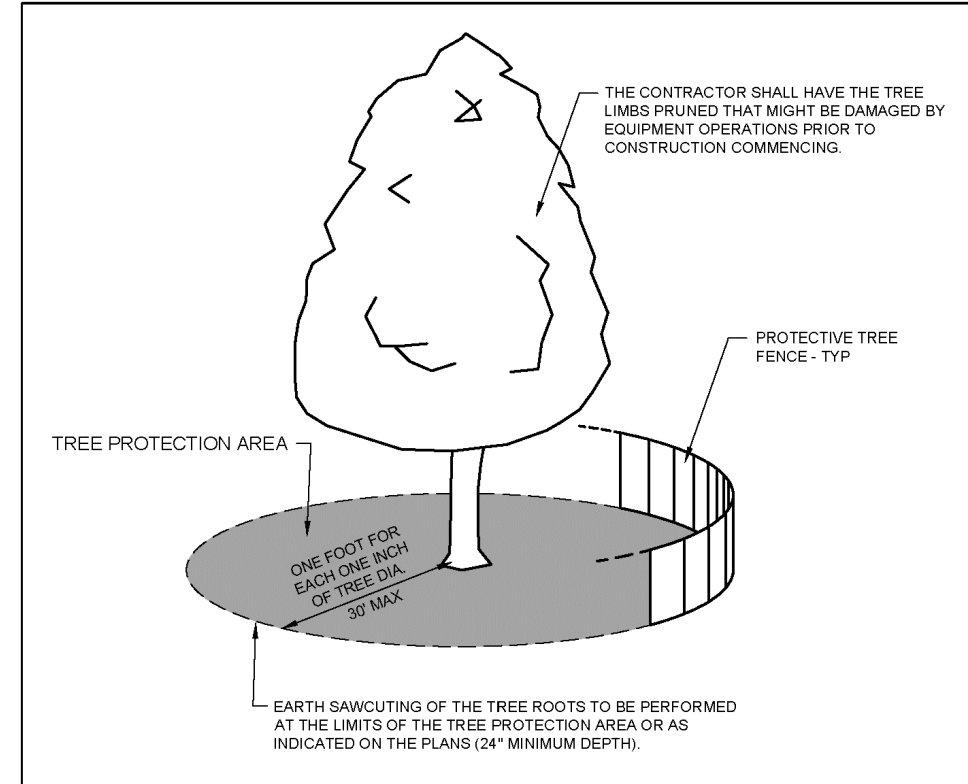
SCALE	1"=10'
DATE	9-13-19
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SCALE: 1" = 10'

LEGEND

- SILT FENCE
- INLET PROTECTION
- CONSTRUCTION ENTRANCE



- NOTES**
- A TREE PROTECTION AREA SHALL BE ESTABLISHED AROUND A TREE A DISTANCE OF ONE FOOT FOR EACH ONE INCH OF TREE DIAMETER, UP TO A MAXIMUM OF 30 FEET.
 - PROTECTIVE TREE FENCE SHALL BE INSTALLED AT THE LIMITS OF THE TREE PROTECTION AREA. THE FENCE SHALL BE HIGH ENOUGH SO AS TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL.
 - GRADE CHANGES, UTILITY TRENCHES, STORAGE OF CONSTRUCTION MATERIAL, DUMPING OF WASTE, OR OPERATION OR STORAGE OF ANY EQUIPMENT SHALL NOT BE ALLOWED WITHIN THE TREE PROTECTION AREA.
 - AQUIRING IS REQUIRED IF A UTILITY MUST BE INSTALLED WITHIN THE TREE PROTECTION AREA. AQUIRED UTILITIES MUST BE A MINIMUM OF 24 INCHES BELOW GRADE.
 - ALL TREES TO BE SAVED WHICH HAVE BEEN SUBJECTED TO CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION AREA SHOULD BE SELECTIVELY THINNED 10% BY AN ARBORIST SKILLED AT THE SELECTIVE THINNING PROCEDURE. NONE OF THE TREES SHALL BE TOPPED, HEADED BACK, SKINNED, REMOVAL OF THE INTERIOR BRANCHES, OR CLIMBED WITH SPIKES. ALL DEAD WOOD SHOULD BE REMOVED TO AVOID HAZARD.
 - IT IS RECOMMENDED THAT FOLLOWING CONSTRUCTION, TREES BE MAINTAINED IN THEIR NATIVE CONDITION. NO LAMN SHOULD BE PLACED AROUND THE TREES. IT IS RECOMMENDED THAT THE AREA BE MULCHED WITH 2 INCHES OF DECOMPOSED LEAVES AND 2 INCHES OF WOOD CHIPS OR BARK.

City of Naperville
STANDARD DETAIL
 LANDSCAPE 10
TREE PROTECTION
 REVISED 04/12/19 SHEET 1 OF 1
790.10

- GENERAL NOTES:**
- THE SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL AND SEDIMENTATION CONTROL, PROCEDURES AND STANDARDS FOR URBAN SOIL AND SEDIMENTATION CONTROL IN ILLINOIS, AND THE CITY OF NAPERVILLE.
 - EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE AREA HAS BEEN PROPERLY STABILIZED.
 - ALL OPEN LID DRAINAGE STRUCTURES LOCATED IN YARD AREAS WILL HAVE INLET PROTECTION DURING CONSTRUCTION, UNTIL SUCH A TIME THAT THE LANDSCAPING IS IN PLACE AND EFFECTIVELY PREVENTING POTENTIAL SILTATION OF THESE STRUCTURES.
 - INLET PROTECTION FOR OPEN LID DRAINAGE STRUCTURES CAN BE INSTALLED BY THE FOLLOWING OPTIONS:
 PAVEMENT STRUCTURES: AS CATCH-ALL FILTER BASKETS
 NON-PAVED AREAS:
 A. GRADE THE AREA WITHIN FOUR (4) FEET RADIUS AROUND STRUCTURES ONE (1) FOOT BELOW RIM TO SERVE AS SEDIMENTATION BASINS DURING CONSTRUCTION WITH A CATCH-ALL FILTER BASKET IN THE STRUCTURE
 B. INLET SEDIMENT TRAP
 - DURING THE COURSE OF CONSTRUCTION, THE CITY RESERVES THE RIGHT TO REQUEST AND OBTAIN, WITHIN REASON, ADDITIONAL EROSION AND SEDIMENTATION CONTROLS TO PROTECT THE PUBLIC HEALTH, SAFETY AND WELFARE.
 - IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) AND UTILITY COMPANIES WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS.
 - FOR ALL LANDSCAPING INFORMATION, PLEASE REFER TO THE LANDSCAPE PLANS PREPARED BY OTHERS.
 - CONTRACTOR TO MAINTAIN SITE SO THAT ALL ROADS ARE CLEAN AND CLEAR OF DEBRIS.
 - ALL INLET PROTECTION SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THAT ALL INLET PROTECTION IS FUNCTIONING PROPERLY ON A WEEKLY BASIS OR AFTER 0.5 INCHES OF RAINFALL.

INTECH CONSULTANTS, INC. 1989 UNIVERSITY LANE, SUITE D LISLE, ILLINOIS 60532 PHONE: 630-984-5656 ILLINOIS REGISTRATION No. 184-001040	
NAPERVILLE CROSSINGS STATION, LLC 11507 NORTHLAKE DRIVE CINCINNATI, OH 45249	
BUILDING 7 NAPERVILLE CROSSINGS NAPERVILLE, ILLINOIS	
STORMWATER POLLUTION PREVENTION PLAN	
SCALE	1"=10'
DATE	9-13-19
DRAWN	BC
DESIGNED	EFS
PROJECT NO.	97013A-7
SHEET	6 OF 9

STORMWATER POLLUTION PREVENTION PLAN

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

THE PERMITEE MUST COMPLY WITH ALL CONDITIONS OF THE GENERAL PERMIT. ANY PERMIT NON-COMPLIANCE CONSTITUTES A VIOLATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT AND THE CLEAN WATER ACT AND IS GROUNDS FOR ENFORCEMENT ACTION. FOR PERMIT TERMINATION, REVOCATION AND REISSUANCE, OR MODIFICATION, OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION.

1. SITE DESCRIPTION

A. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:

- GRADING (EXCAVATION AND FILL)
- UNDERGROUND CONSTRUCTION
- PAVING
- BUILDING CONSTRUCTION
- LANDSCAPING

B. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

- 1) EROSION AND SEDIMENTATION CONTROL MEASURES SUCH AS SILT FENCE, DITCH CHECKS, CONSTRUCTION ENTRANCE, AND FENCING TO PROTECT VEGETATIVE BUFFERS (EARTHWORK CONTRACTOR)
- 2) TOPSOIL STRIPPING, EXCAVATION AND FILL (EARTHWORK CONTRACTOR)
- 3) UNDERGROUND UTILITY CONSTRUCTION INCLUDING INLET CONTROL MEASURES (UNDERGROUND CONTRACTOR)
- 4) FINE GRADING AND PAVING (PAVING CONTRACTOR)
- 5) BUILDING CONSTRUCTION (BUILDING CONTRACTOR)
- 6) TOPSOIL RESPREAD AND VEGETATIVE STABILIZATION (EARTHWORK CONTRACTOR AND LANDSCAPER)
- 7) PERFORM CONTINUING MAINTENANCE (OWNER)

C. THE TOTAL AREA OF THE SITE IS **2.55** ACRES. (LOT 16)
 THE TOTAL AREA OF THE SITE THAT IS ESTIMATED WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS **3.5** ACRES.
 THE TOTAL TRIBUTARY DRAINAGE AREA IS **7.70** ACRES.

D. THESE PLAN DOCUMENTS CONTAIN SITE MAP(S) INDICATING THE DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER THE MAJOR GRADING ACTIVITIES. AREA OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS IDENTIFIED ON THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS INCLUDING DETENTION AREAS, AND LOCATIONS WHERE STORMWATER IS DISCHARGED.

E. THE NAME OF THE RECEIVING WATERS DOWNSTREAM OF THE PROJECT IS NORTH BRANCH CLOW CREEK. NO WETLANDS, FLOODPLAIN, RIPARIAN AREAS OR THEIR BUFFERS ARE PRESENT ON THE SITE.

2. CONTROLS

THIS SECTION OF THE PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN 1. B. ABOVE. FOR EACH MEASURE DISCUSSED, THE CONTRACTOR RESPONSIBLE FOR ITS IMPLEMENTATION IS INDICATED AND HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS ATTACHED TO, AND A PART OF, THIS PLAN.

A. EROSION AND SEDIMENTATION CONTROLS

1) STABILIZATION PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE-SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS 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, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES. EXCEPT AS PROVIDED IN 2.A.1.A AND 2.B. 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 14 DAYS AFTER THE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.

(A) WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14th DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.

(B) WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN THE ACTIVITIES CEASED (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14th DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

DESCRIPTION OF STABILIZATION PRACTICES:

TEMPORARY SEEDING

A) IDOT CLASS 7 EROSION CONTROL MIXTURE (ANY TIME OF YEAR)

PERENNIAL RYEGRASS	50 LBS/ACRE
SPRING OATS	64 LBS/ACRE

B) IDOT CLASS 6 CONSERVATION MIXTURE (AUGUST 1 TO NOVEMBER 1)

SMOOTH BROME GRASS	40 LBS/ACRE
VERNAL ALFALFA	15 LBS/ACRE
SPRING OATS	48 LBS/ACRE

PERMANENT SEEDING - PER LANDSCAPE PLAN PREPARED BY OTHERS

2) STRUCTURAL PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT. SUCH PRACTICES WILL INCLUDE STABILIZED CONSTRUCTION ENTRANCE, SILT FENCES, DITCH CHECKS, SEDIMENT TRAPS, RIP-RAP, STORM DRAIN INLET PROTECTION, LEVEL SPREADERS, AND THE SITE DETENTION FACILITY WITH ITS INFILTRATION MEASURES AND OUTLET RESTRICTOR.

B. STORMWATER MANAGEMENT

PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORMWATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.

1) INLET PROTECTION ON AND SURROUNDING SITE

C. OTHER CONTROLS

1) WASTE DISPOSAL. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

2) THE PROVISIONS OF THIS PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEMS REGULATIONS.

D. APPROVED STATE OR LOCAL PLANS

THE MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS CONTAINED IN THIS PLAN WILL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS OF THE LOCAL JURISDICTIONAL AGENCIES, WHICH ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ILLINOIS URBAN MANUAL, CURRENT EDITION. REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION CONTROL PLANS OR SITE STORMWATER MANAGEMENT PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI TO BE AUTHORIZED TO DISCHARGE UNDER PERMIT ILR10, INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

3. MAINTENANCE

THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN IN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN.

A. SILT FENCE: SILT FENCE SHALL BE INSTALLED AND MAINTAINED. DAMAGED FENCE SHALL BE RESTORED OR REPLACED.

B. STABILIZED CONSTRUCTION ENTRANCE: THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC STREETS. MUD TRACKED ONTO PUBLIC STREETS OR SEDIMENT WASHED INTO THE RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.

C. INLET PROTECTION: INLET PROTECTION SHALL BE INSPECTED FREQUENTLY, REPAIRED OR REMOVED AND REPLACED AS NEEDED.

D. VEGETATIVE EROSION CONTROL MEASURES: THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, SODDING, VEGETATIVE CHANNELS, VEGETATIVE BUFFER STRIPS, ETC. SHALL BE MAINTAINED PERIODICALLY, ADEQUATELY WATERED AND FERTILIZED. THE VEGETATIVE COVER SHALL BE RESEEDED OR OVERSEEDED AS NECESSARY.

E. OTHER MAINTENANCE PROCEDURES IDENTIFIED IN THE STORMWATER REPORT ARE INCORPORATED BY REFERENCE.

4. INSPECTIONS

QUALIFIED PERSONNEL SHALL MAKE PERIODIC INSPECTIONS OF THE CONSTRUCTION SITE WHICH HAS NOT BEEN FINALLY STABILIZED. SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER THE END OF A RAINFALL THAT IS 0.50 INCHES ARE GREATER OR AN EQUIVALENT SNOWFALL.

A. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED ON THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.

B. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION 1 ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION 2 ABOVE SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTIONS SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

C. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4.B. SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION.

D. IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE OWNER OR HIS REPRESENTATIVE SHALL COMPLETE AND FILE AN "INCIDENT OF NON-COMPLIANCE" (IONC) REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER OR PROJECT REPRESENTATIVE SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF THE NON-COMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NON-COMPLIANCE AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM NON-COMPLIANCE. ALL REPORTS OF NON-COMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI.G OF THE GENERAL PERMIT. THE REPORT OF NON-COMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF WATER POLLUTION CONTROL
 ATTN: COMPLIANCE ASSURANCE SECTION
 1021 NORTH GRAND AVENUE EAST
 POST OFFICE BOX 19276
 SPRINGFIELD, ILLINOIS 62794-9276

5. NON-STORMWATER DISCHARGES

EXCEPT FOR FLOWS FROM

- FIRE-FIGHTING ACTIVITIES,
- WATERMAIN HYDRANT FLUSHING,
- WATERING FOR DUST CONTROL,
- IRRIGATION FOR VEGETATIVE GROWTH,
- OR WASH WATER WHERE DETERGENTS ARE NOT USED.

SOURCES OF NON-STORM WATER SHALL NOT BE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN.

OWNER'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE _____
 TITLE _____

EARTHWORK CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE _____
 TITLE _____

UNDERGROUND CONTRACTOR'S CERTIFICATION

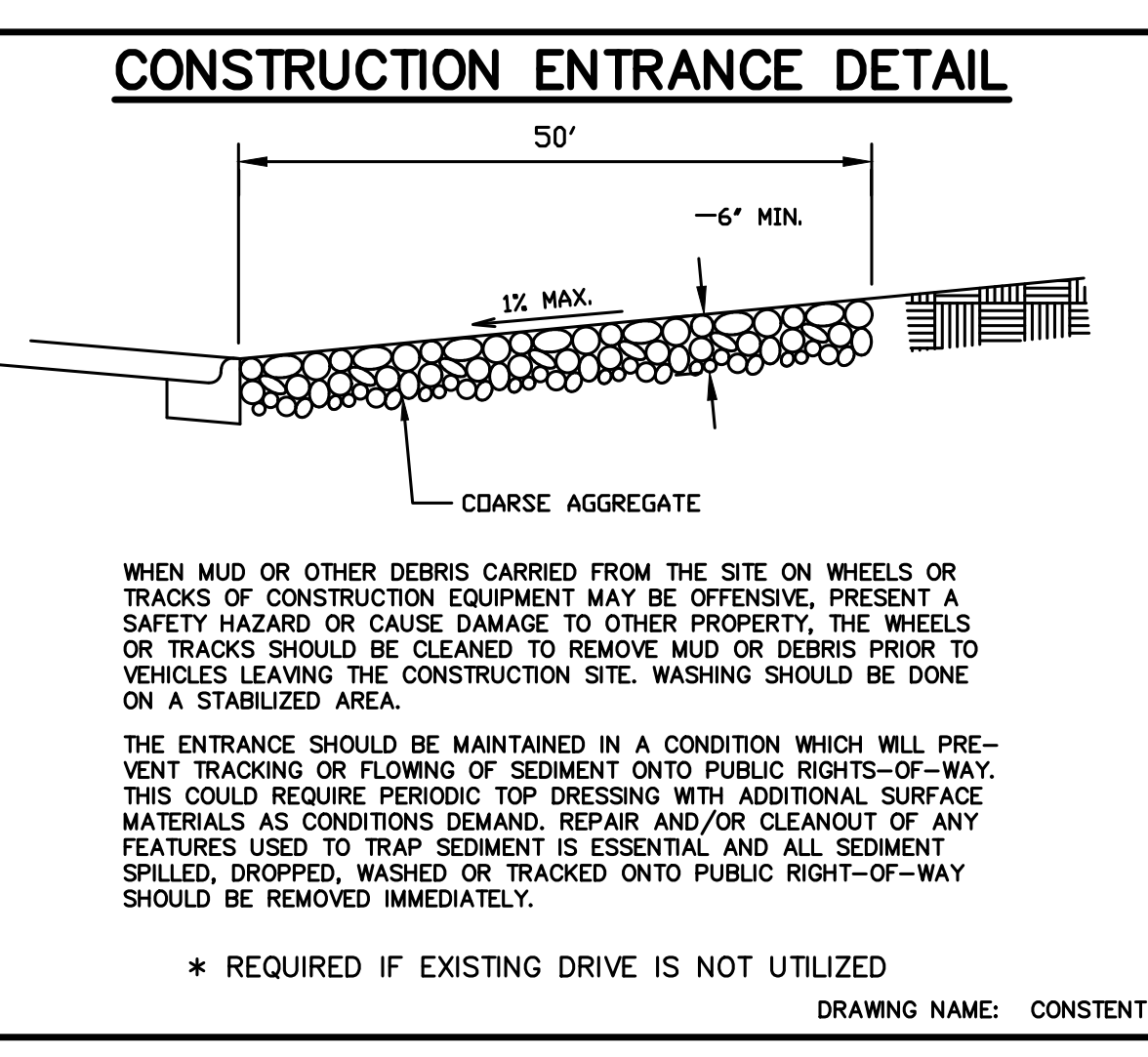
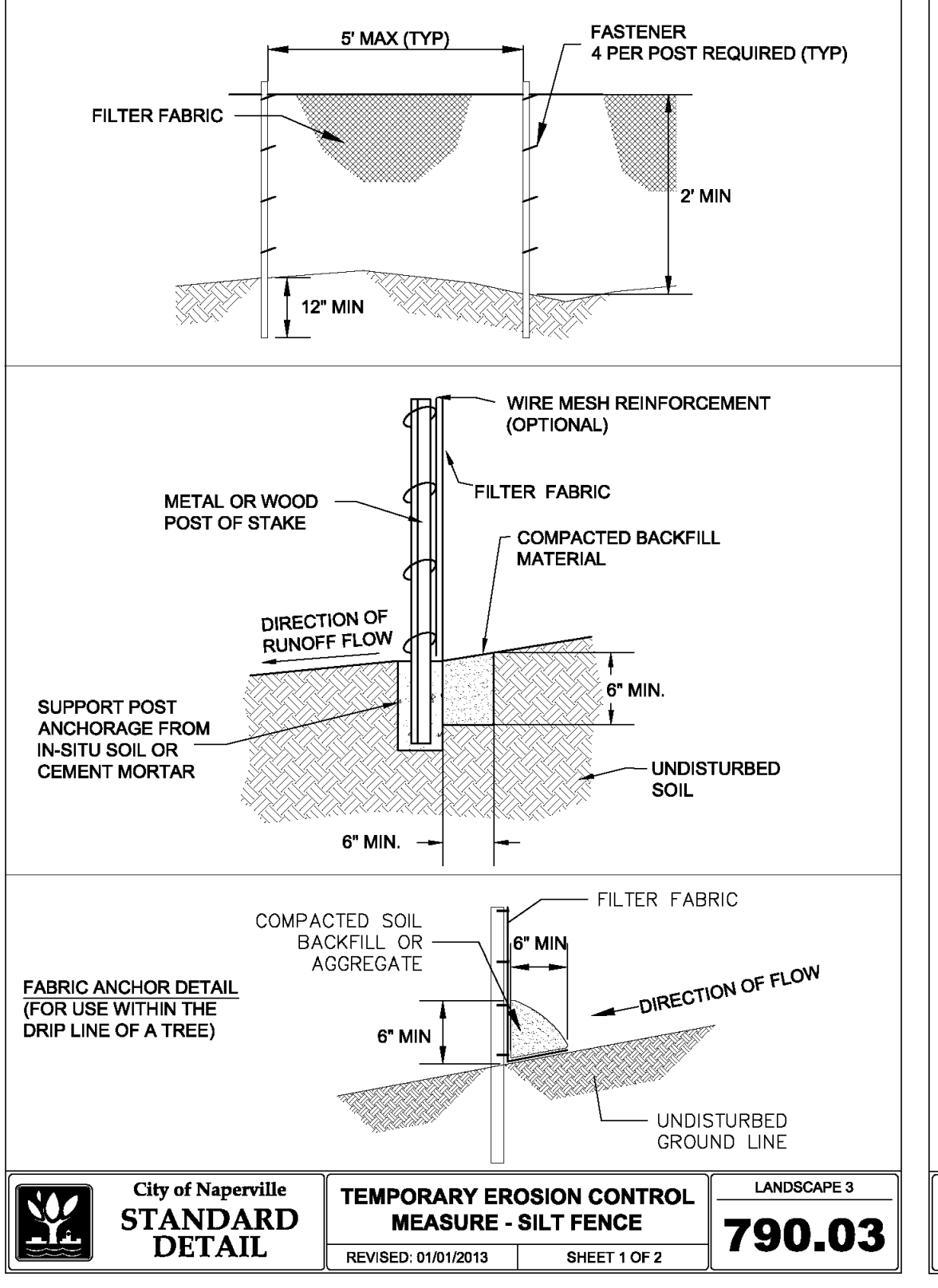
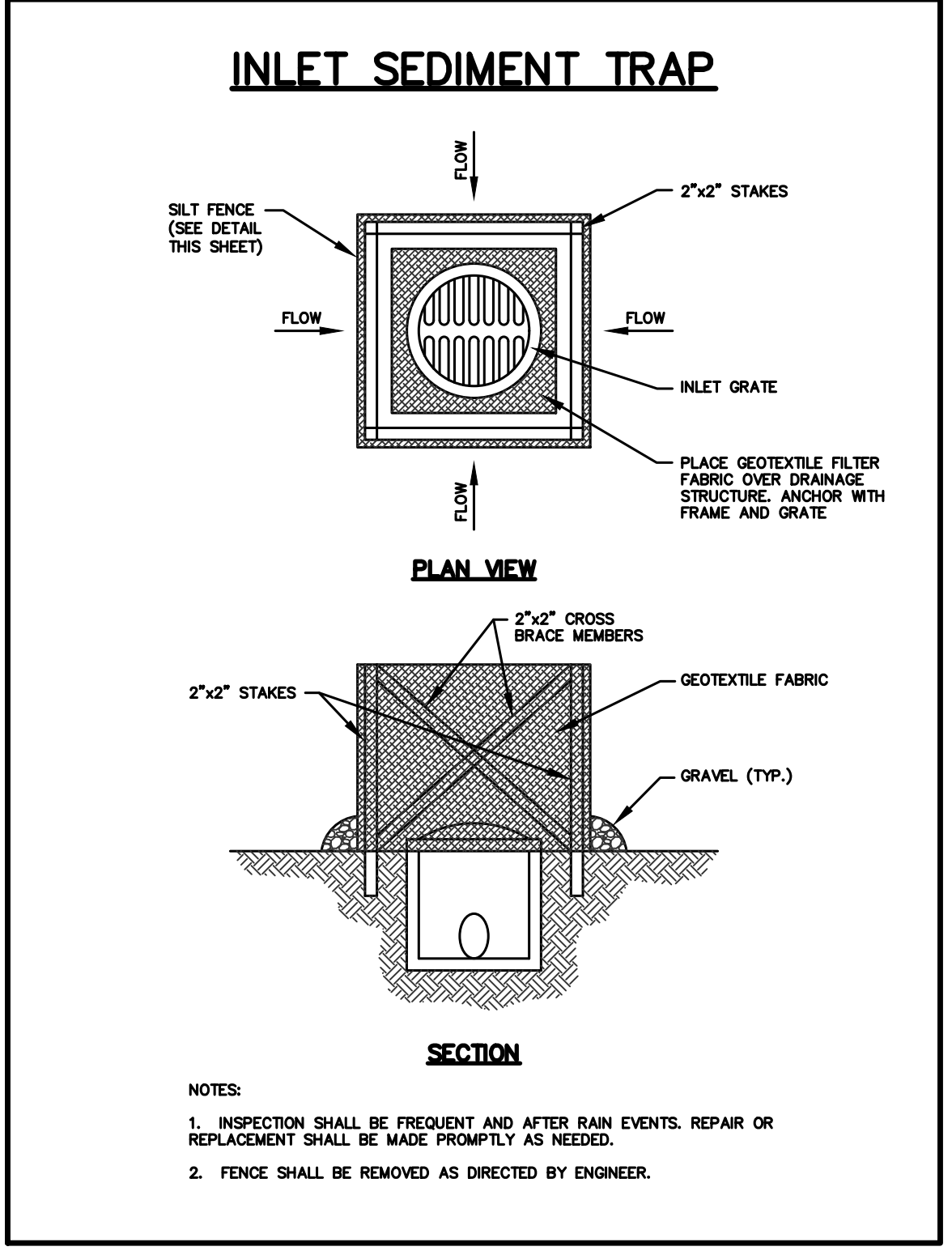
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE _____
 TITLE _____

LANDSCAPE CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE _____
 TITLE _____



* REQUIRED IF EXISTING DRIVE IS NOT UTILIZED
 DRAWING NAME: CONSTENT

Maintenance Guidelines Catch-All HR-1

The frequency and degree of maintenance required is dependant on site conditions and rainfall. For this reason, each site should have a regular maintenance schedule that is developed over time. Generally, filters installed at lower elevations and in higher traffic areas will require maintenance more often than others. At a minimum, the following inspections should be performed.

INSPECTION

- Inspect the filter at least once per month
- Inspect the filter each time there is rainfall totaling two or more inches
- Inspect the Imbibitor Beads® Imbibitor® Boom with each filter inspection
- Inspect the Imbibitor Beads® Imbibitor® Boom after any oil, gasoline, or solvent spill

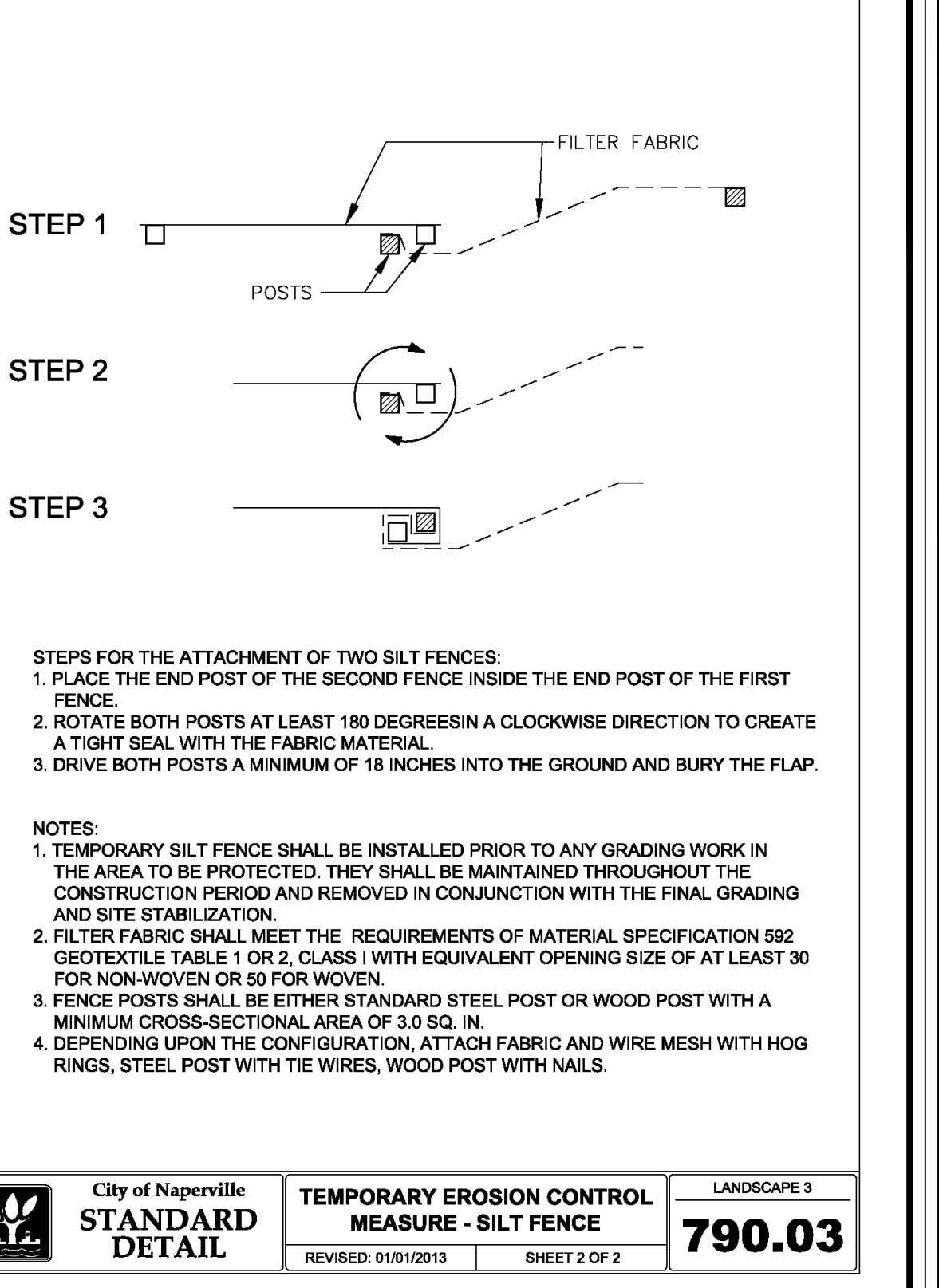
NOTE: It is normally not necessary to remove the grate to inspect the filter or boom

FILTER MAINTENANCE

- Remove and properly dispose of any debris and silt that has accumulated
- Vacuum the filter with a high powered shop vacuum
- Replace the filter if it is excessively worn or has a hole in it
- Replace the filter if it appears clean but won't pass water

IMBIBITOR BEADS® IMBIBITOR® BOOM MAINTENANCE (NOT REQUIRED)

- Vacuum the boom with a high powered shop vacuum
- Replace the boom when it has turned red/orange in color
- Place the expired boom in the vapor bag provided and dispose of properly



PRODUCTS

INLET FILTER SYSTEMS

Inlet Filter Systems shall consist of a replaceable reinforced sediment bag and absorbent boom suspended from a welded steel ring or frame. Inlet Filter Systems shall be the Catch-All HR-1, as manufactured by Marathon Materials, Inc., or pre-approved equal. The filter bag shall be constructed of a non-woven polypropylene filter geotextile fabric with a minimum weight of 4 oz./yd², a minimum flow rate of 145 gal./min./ft², and designed for a minimum silt and debris capacity of 2 cu. ft. The filter bag shall be reinforced with a polyester mesh fabric with a minimum weight of 4 oz./yd². An absorbent boom conforming to ASTM F716 shall be attached around the entire perimeter of the top of the sediment bag and extend a minimum of four inches towards center. The absorbent boom shall employ Imbibitor Beads® technology and have the capability to absorb or imbibe a minimum of one half gallon per foot of diesel fuel, gasoline, and other compatible organic liquids. The absorbent boom shall gradually change from white to red/orange as its capacity is reached. Other than the wicking material, no adsorbent that allows captured organic liquids to be re-released as a result of compression, gravitational pull, or subsequent rainfall will be allowed. Curb boxes shall be fitted with a separate boom, meeting the same requirements, that extends the full width of the box. The filter bag shall be suspended from a galvanized steel ring, or frame, conforming to ASTM-A36, utilizing a stainless steel band and locking clamp. The frame shall be designed with an overflow feature to prevent any ponding during peak flows.

INTECH CONSULTANTS, INC.
 1989 UNIVERSITY LANE, SUITE D
 ENGINEERS - SURVEYORS
 ILLINOIS REGISTRATION No. 184-001040
 ILLINOIS 60532
 PHONE: 630-984-5656

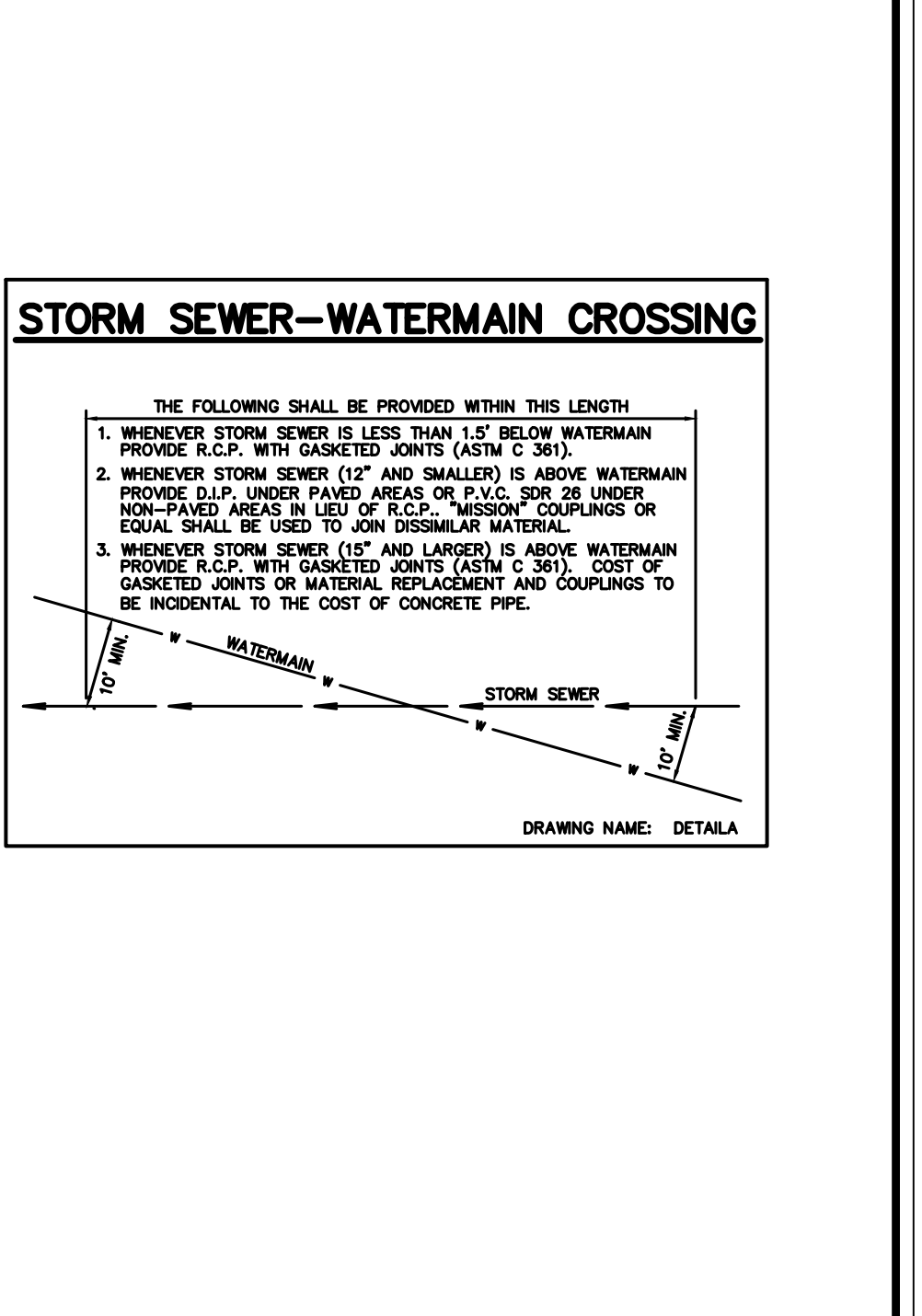
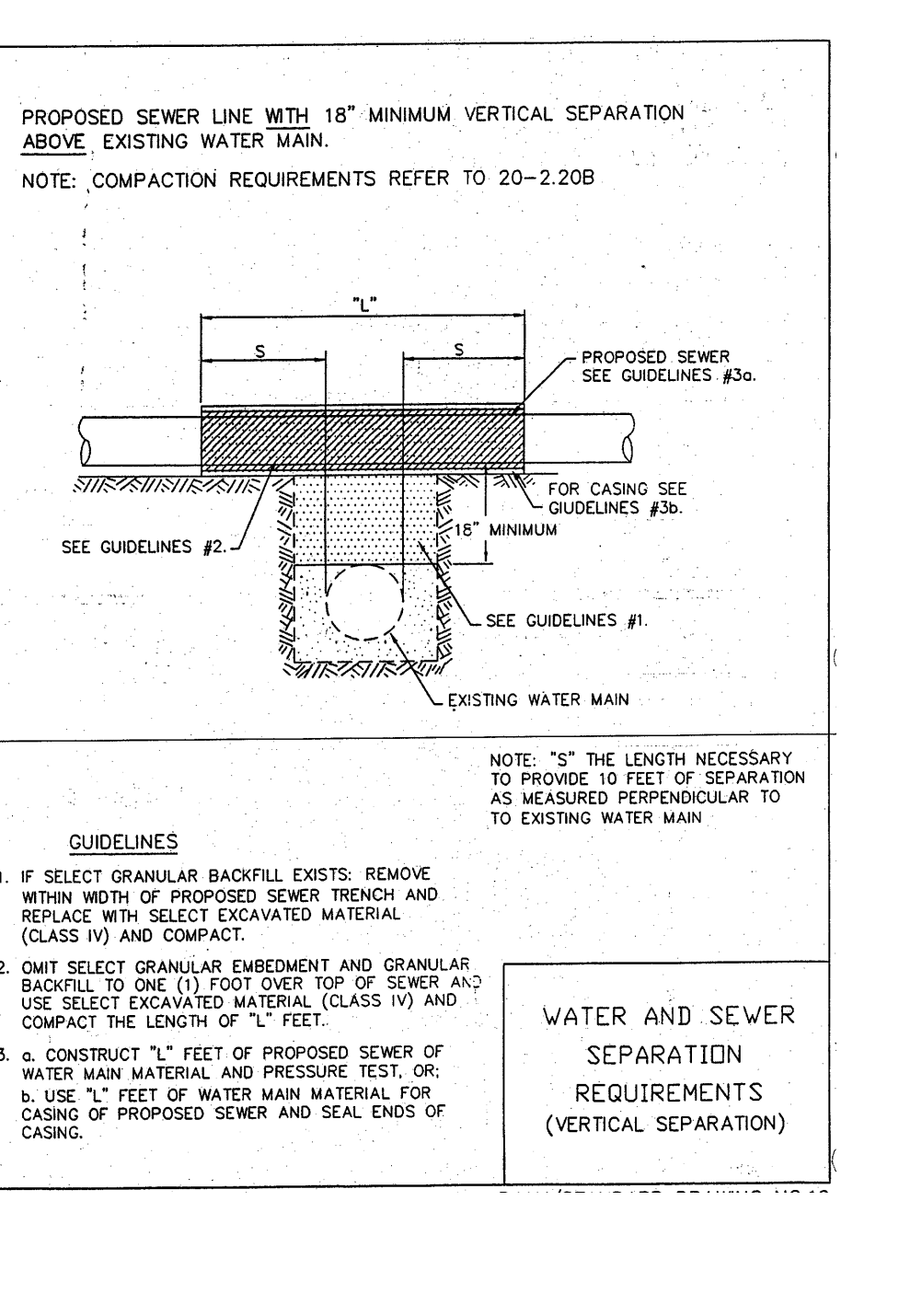
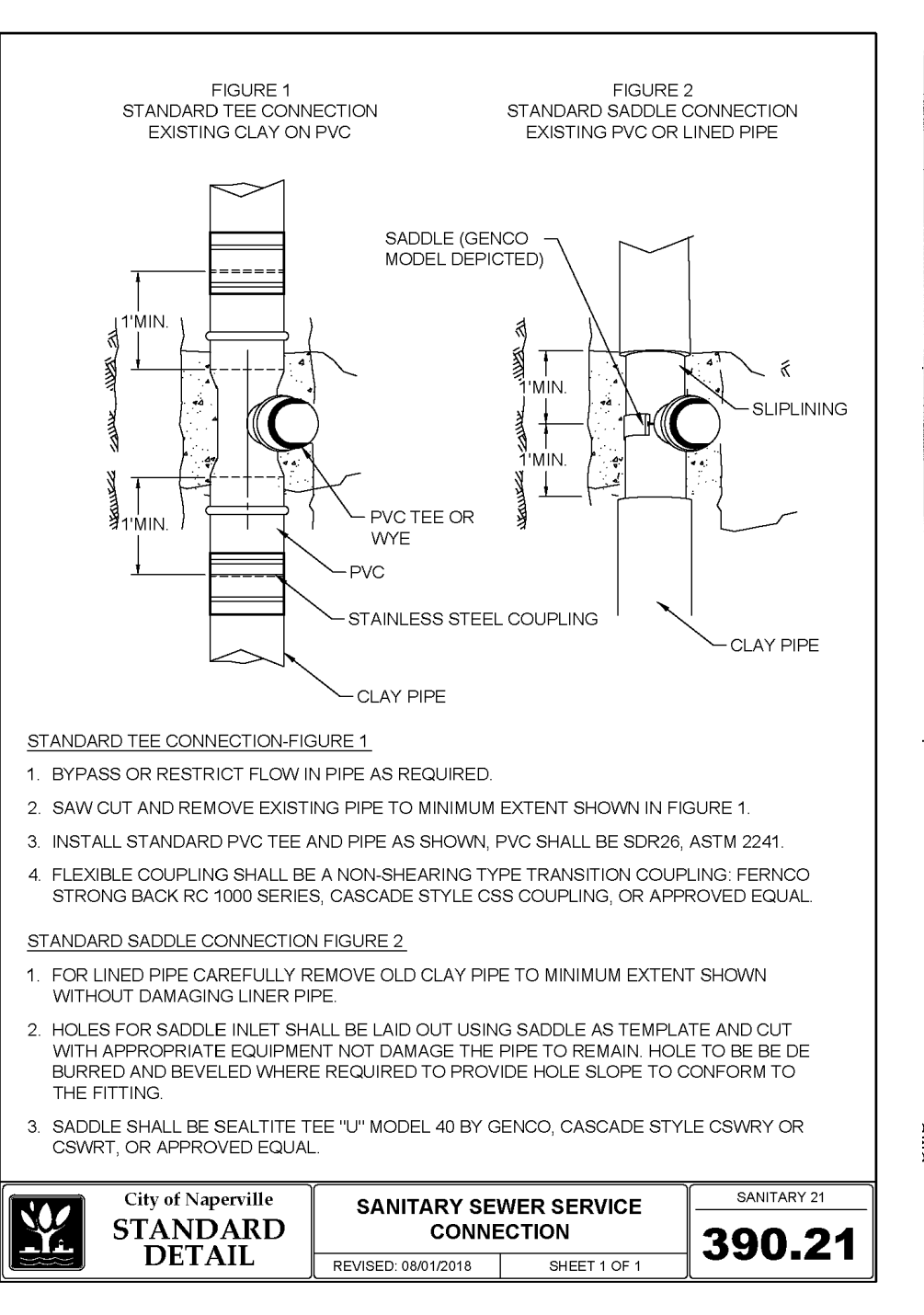
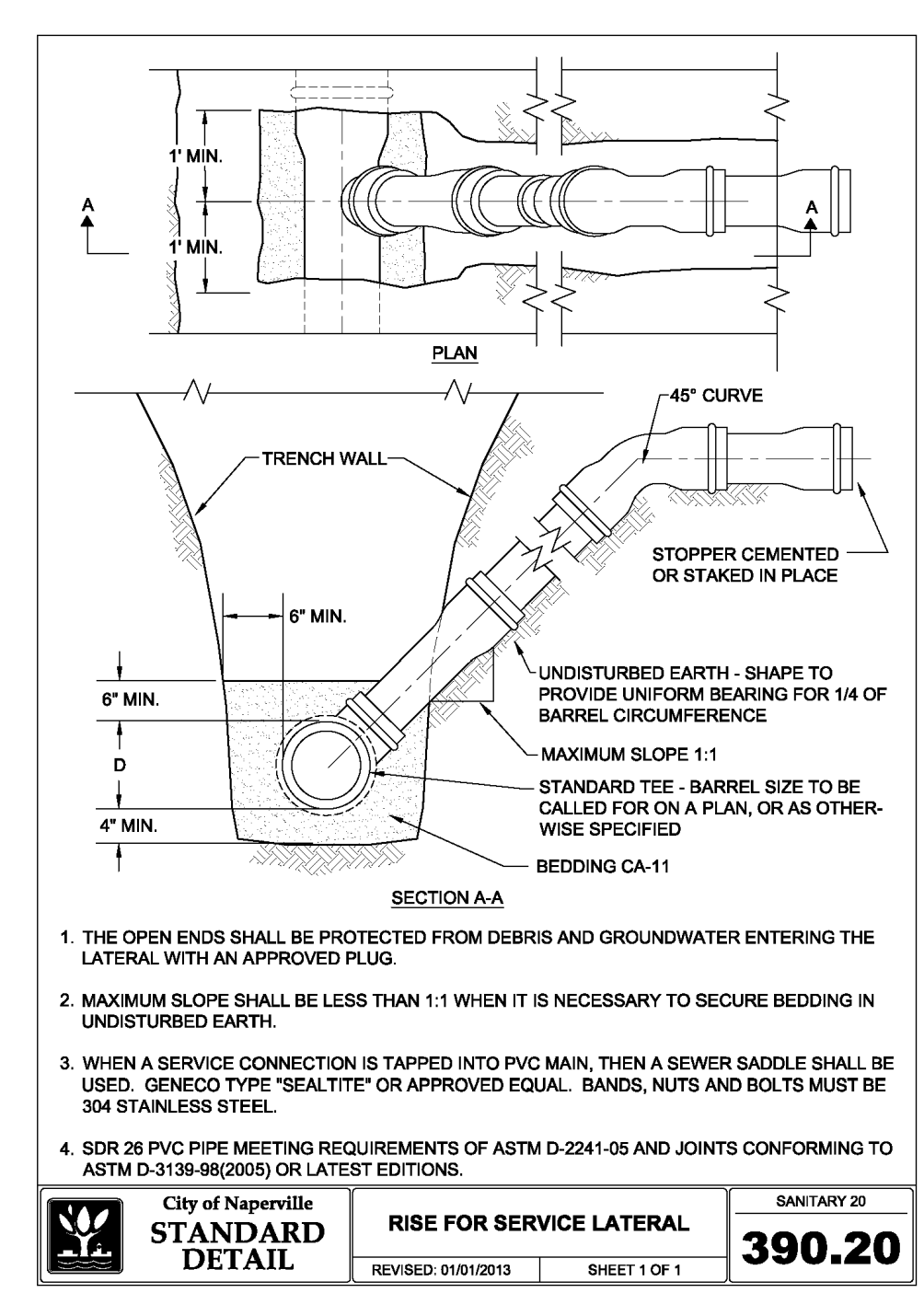
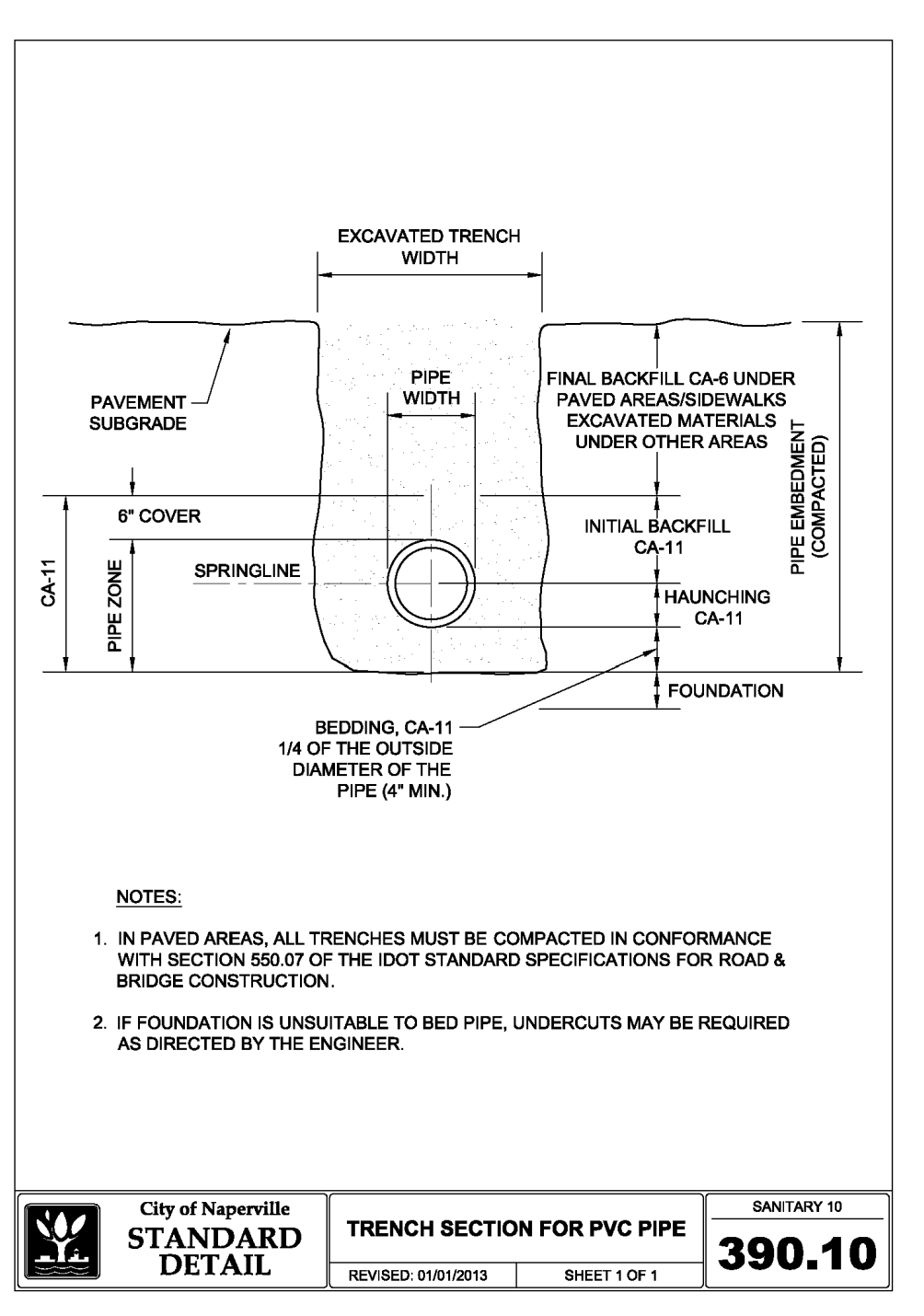
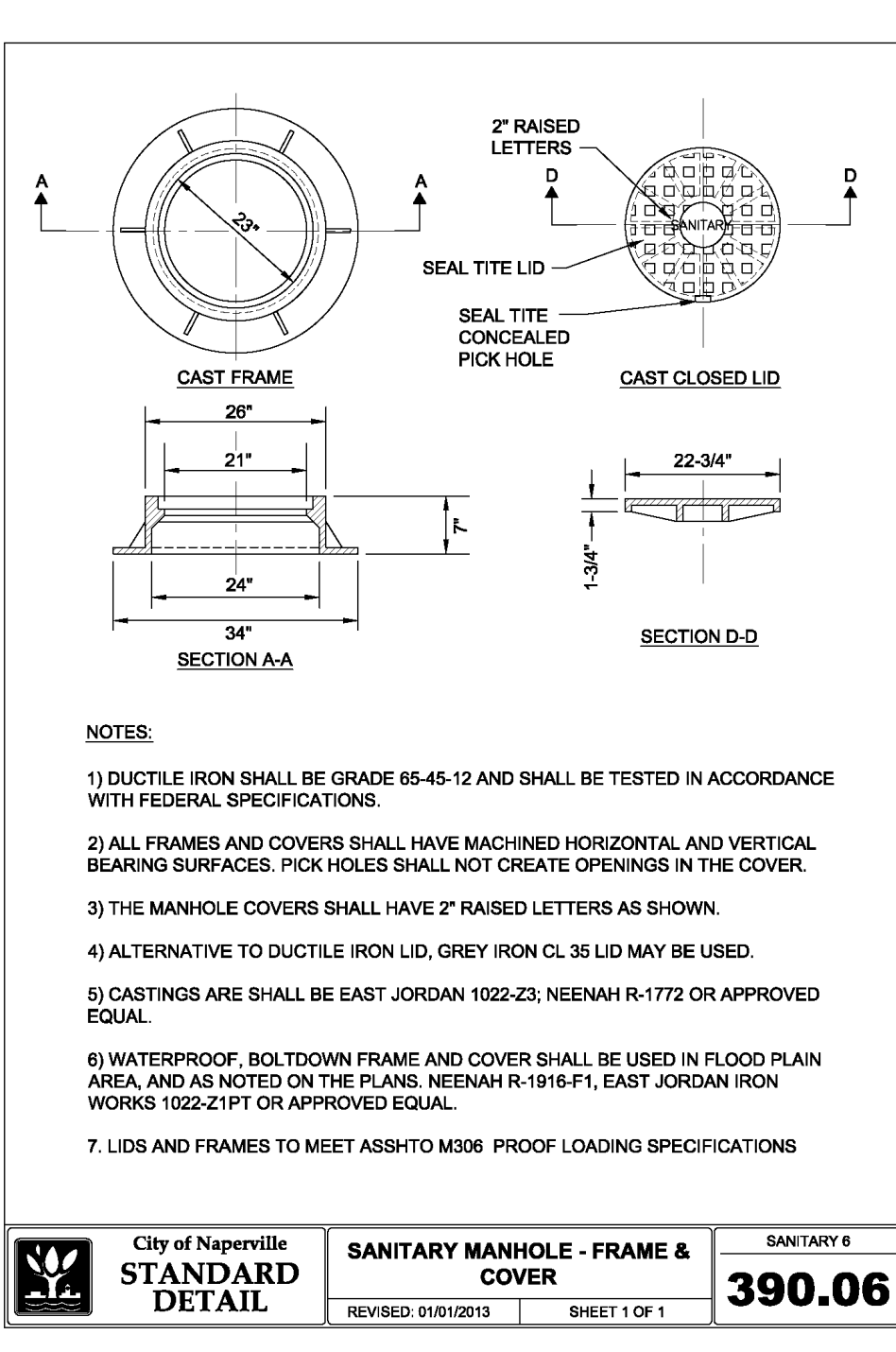
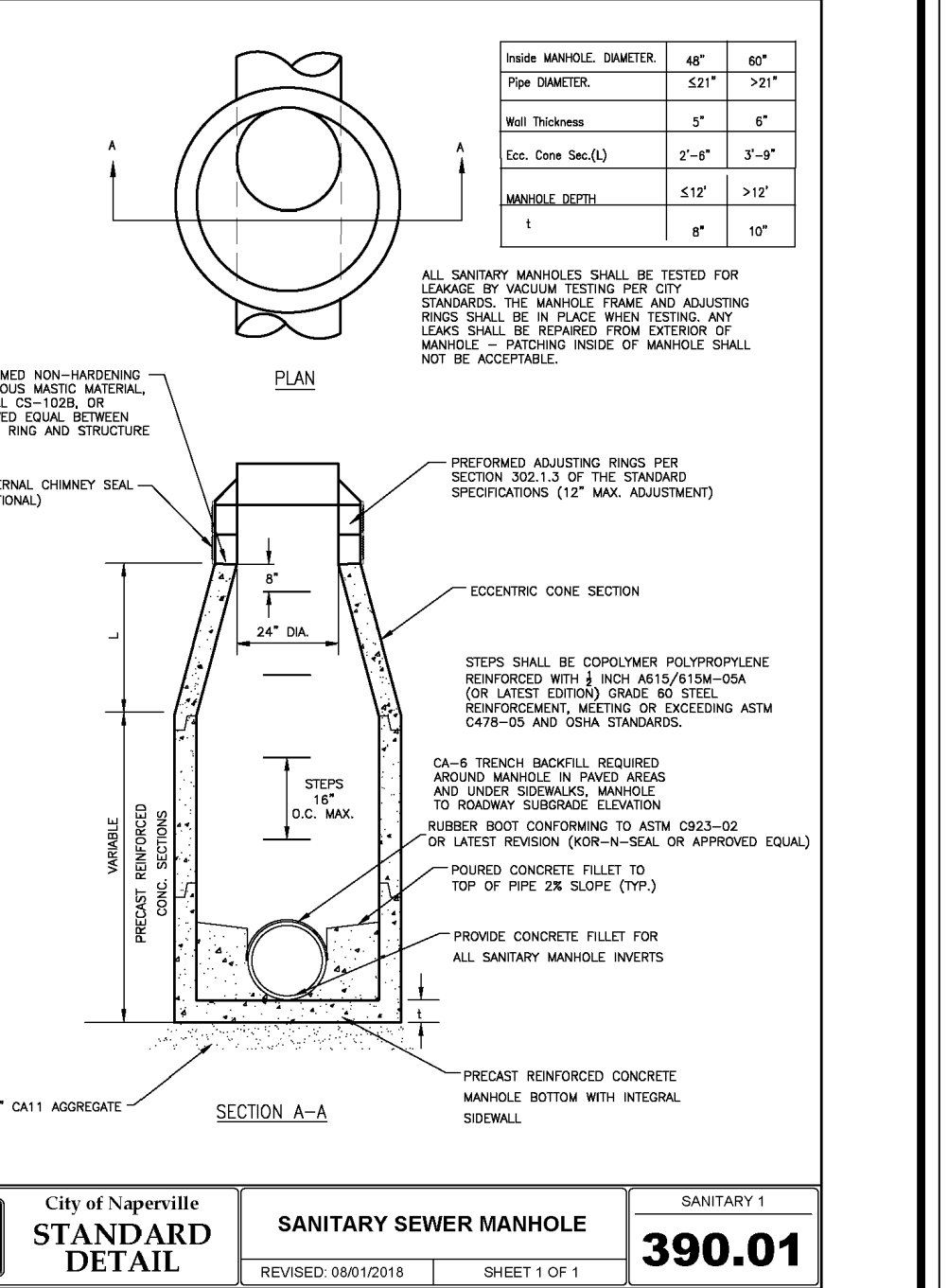
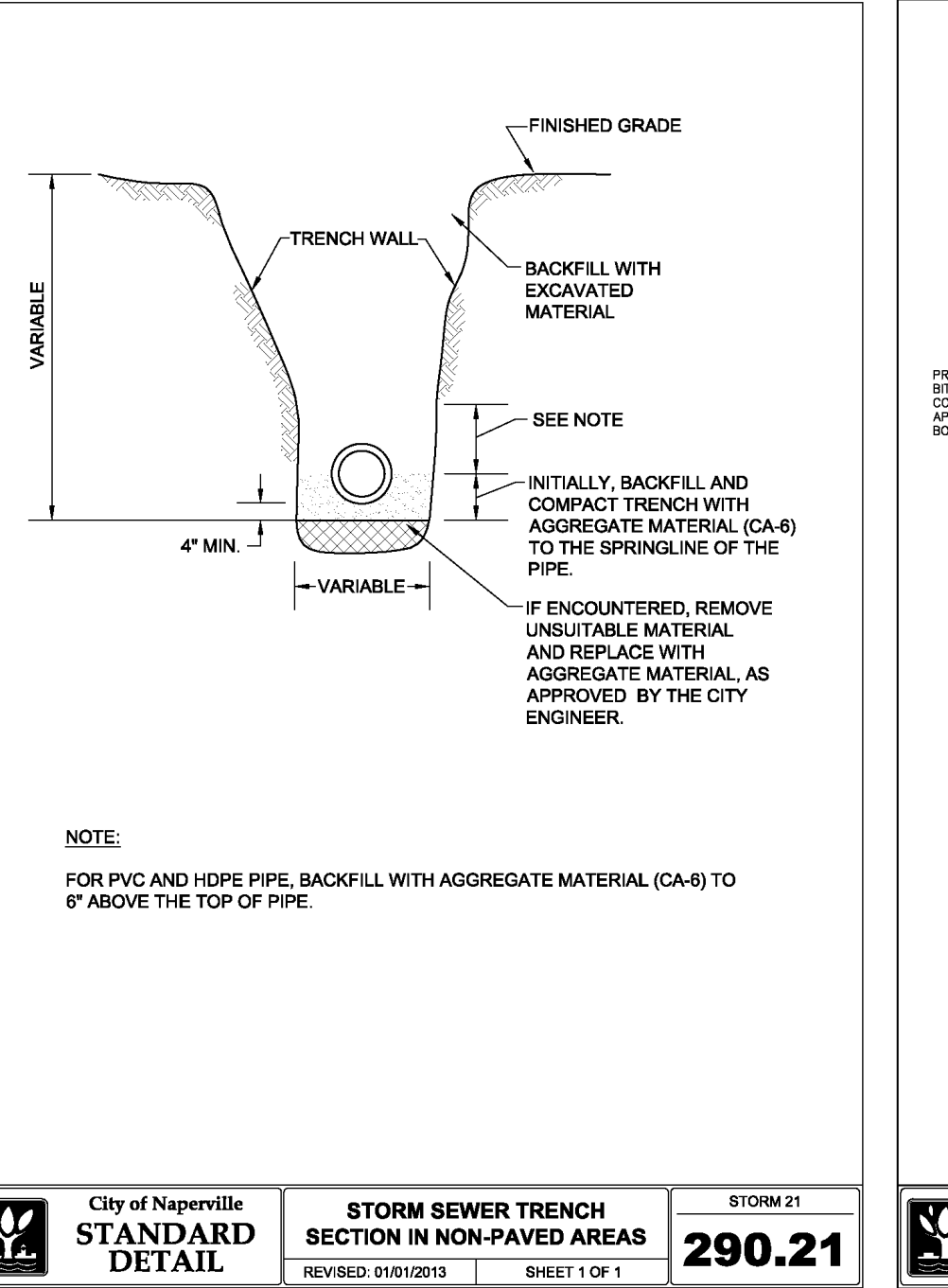
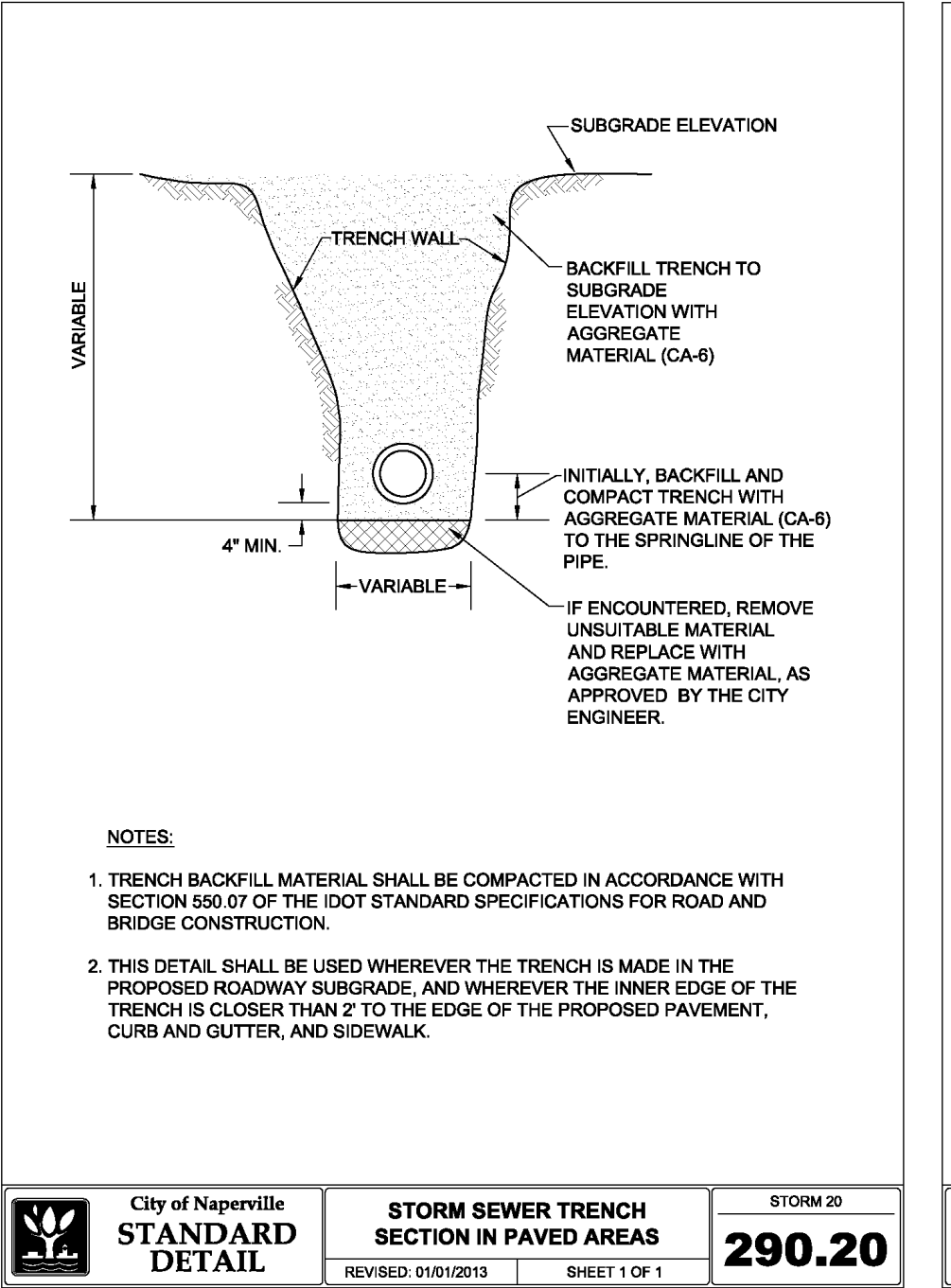
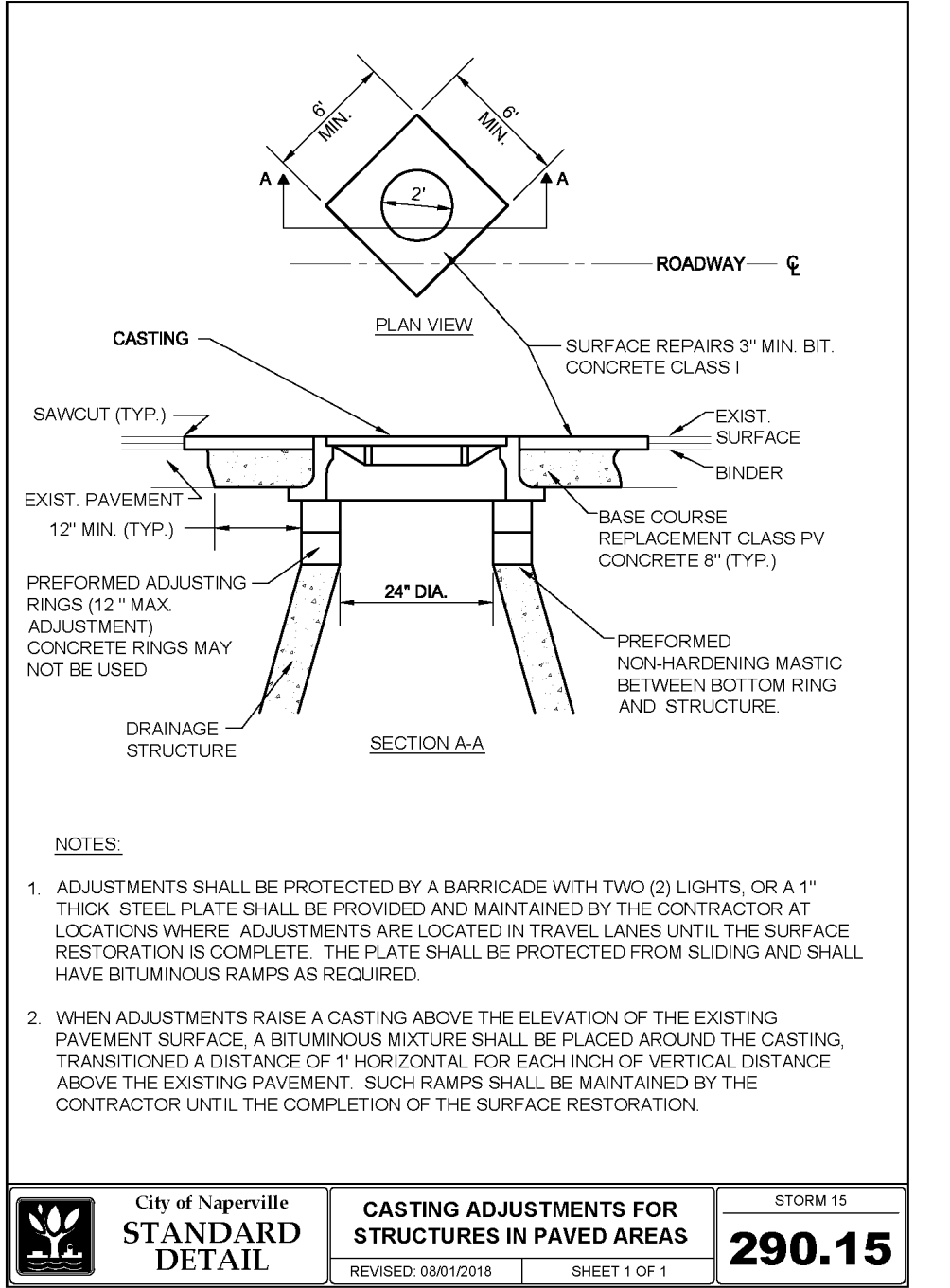
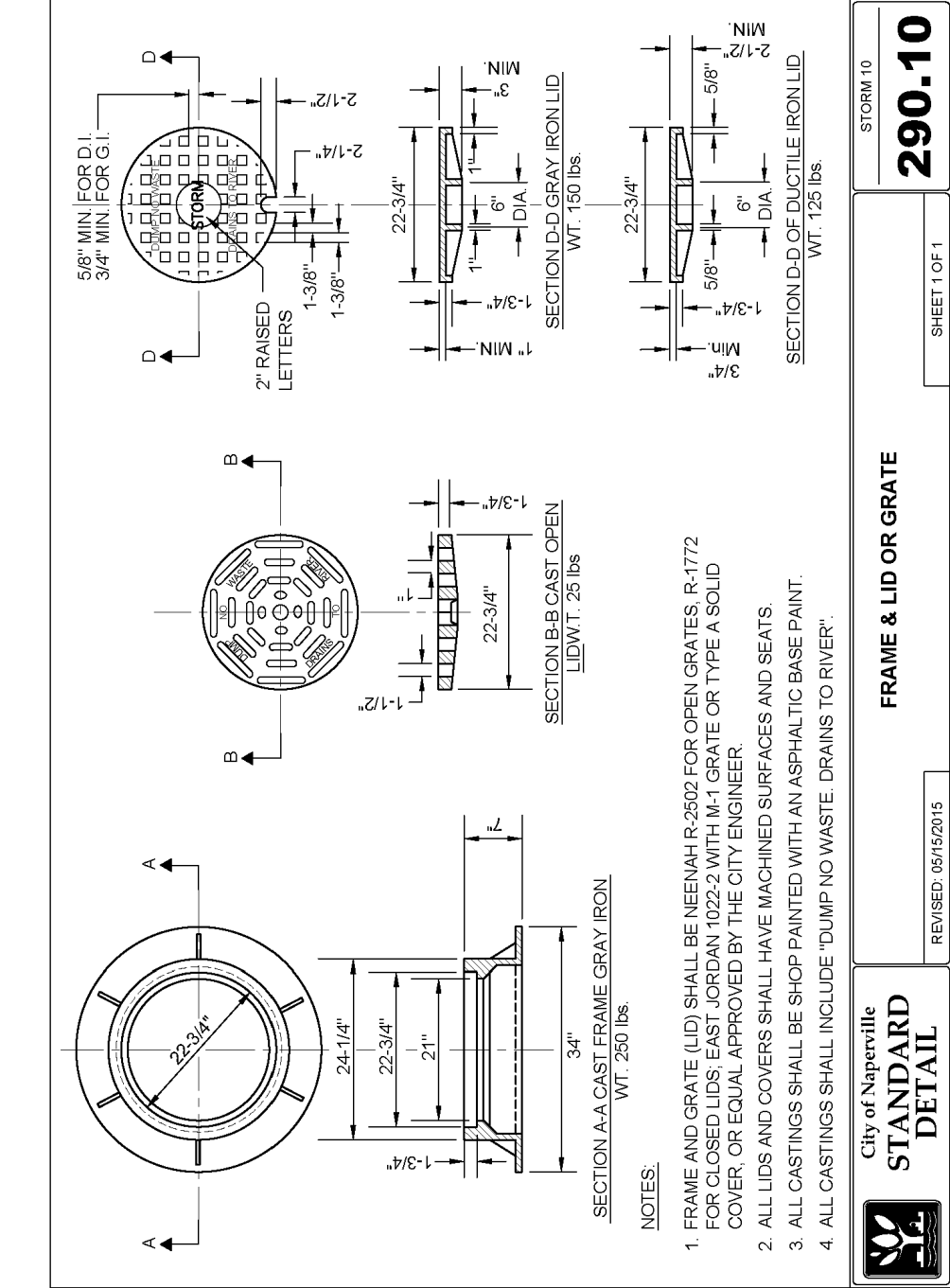
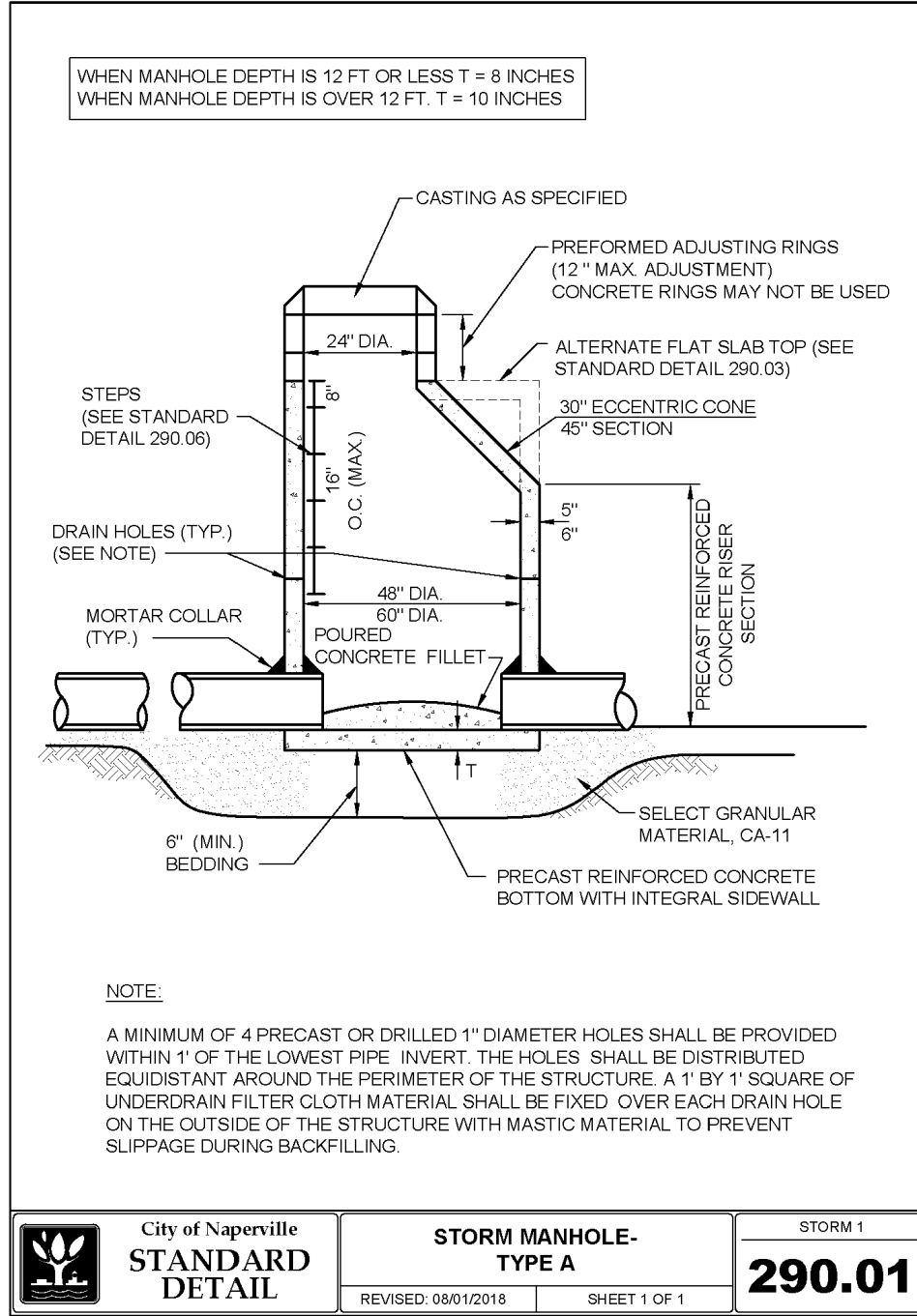
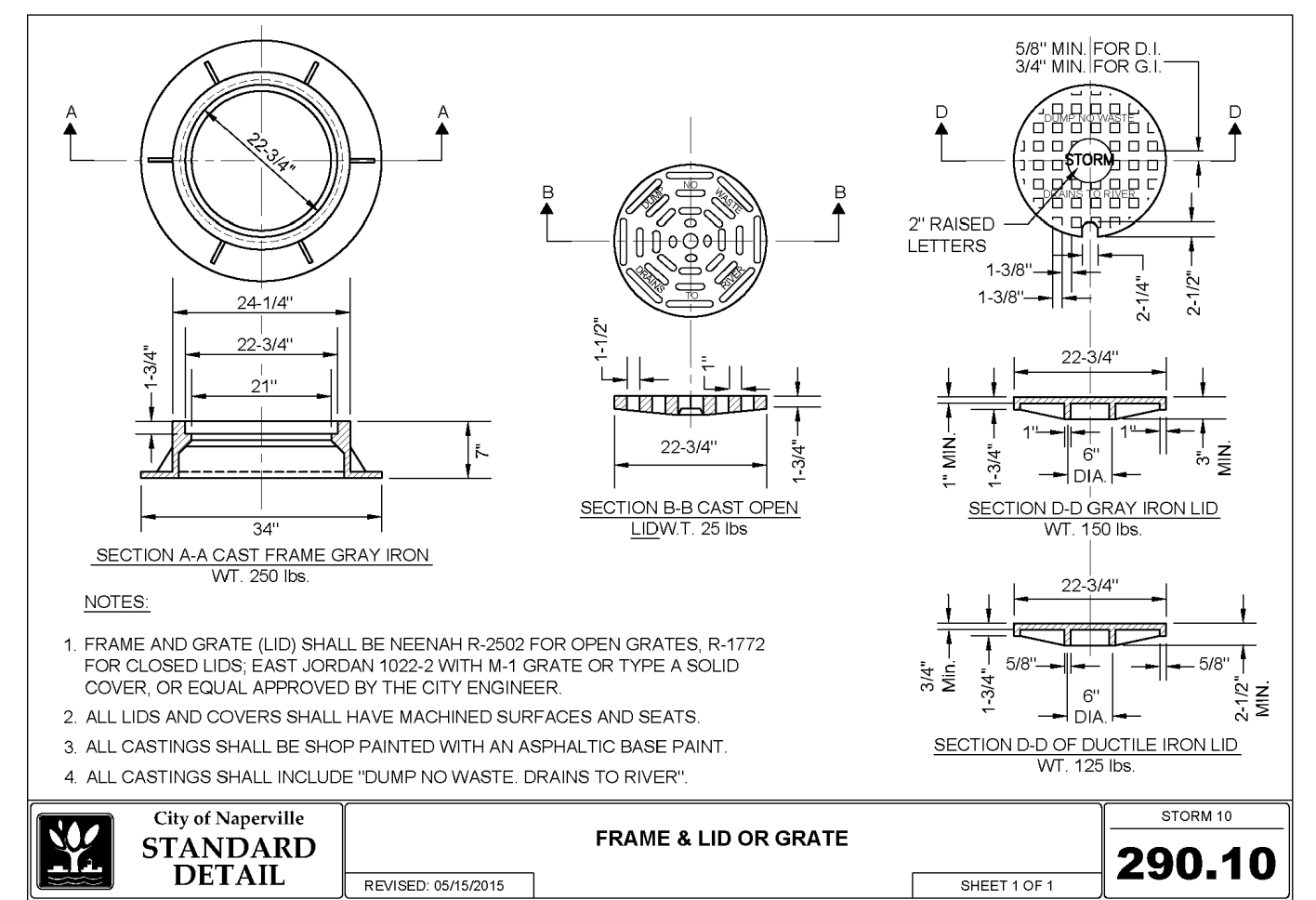
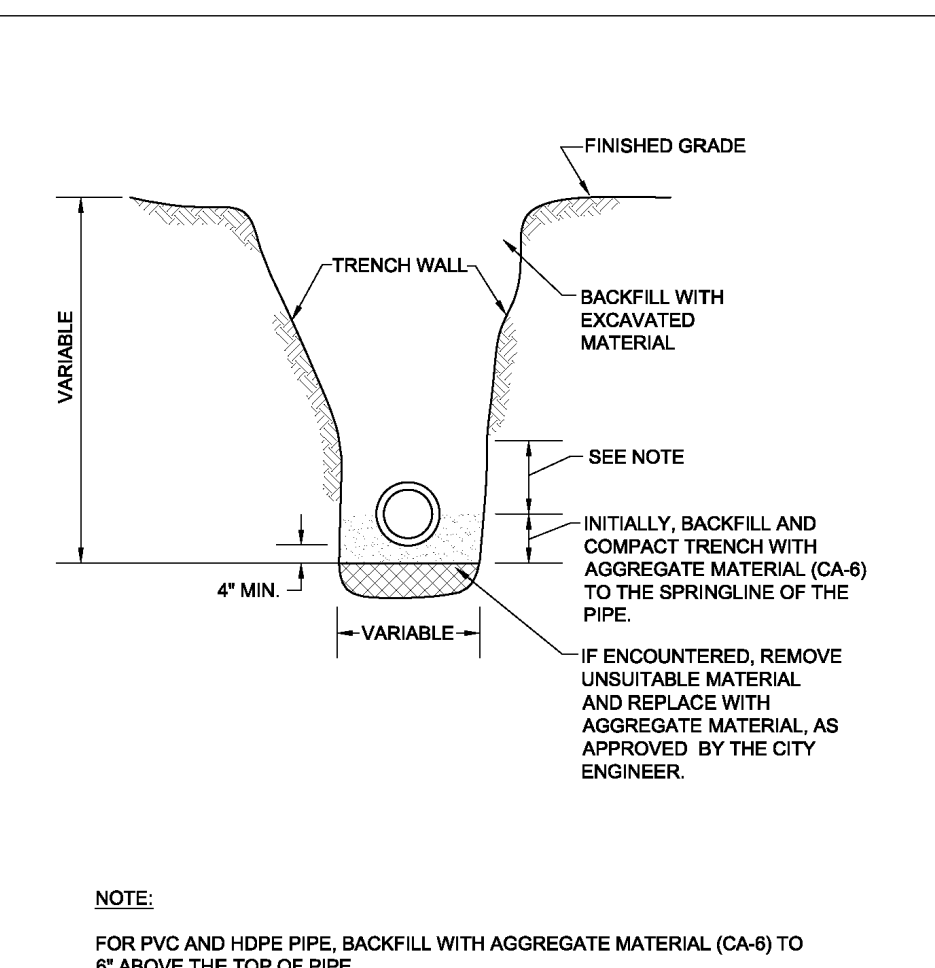
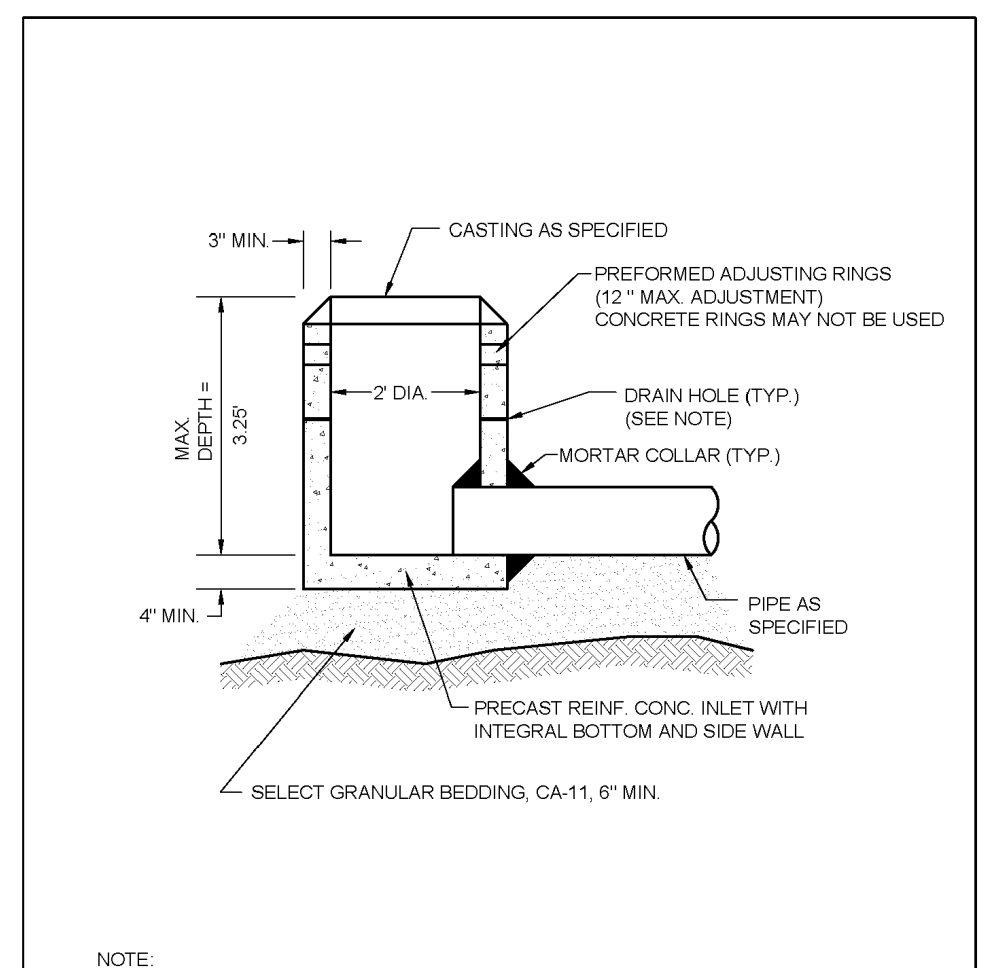
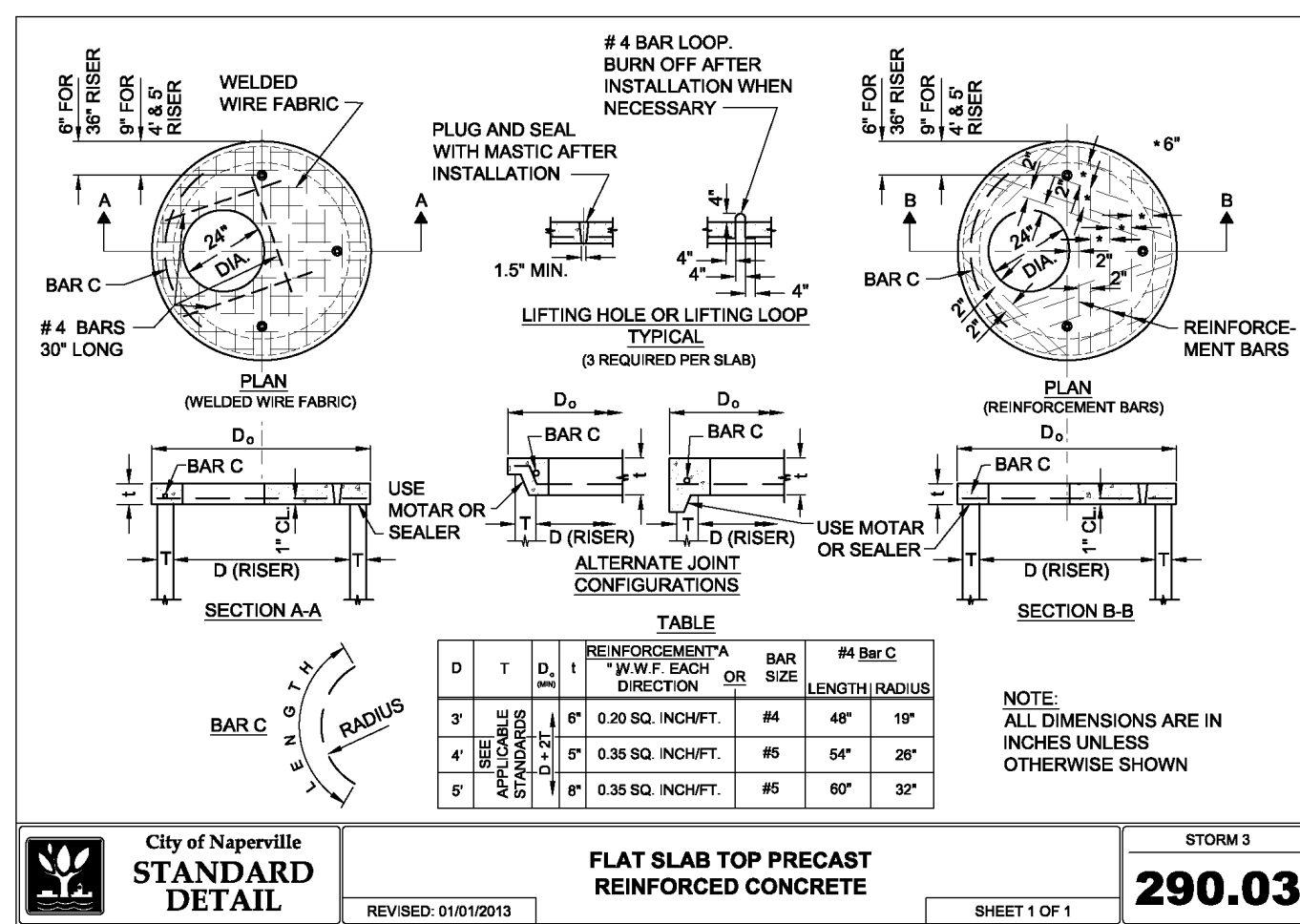
NAPERVILLE CROSSINGS STATION, LLC
 11501 NORTHLAKE DRIVE
 CINCINNATI, OH 45249

BUILDING 7
NAPERVILLE CROSSINGS
NAPERVILLE, ILLINOIS

STORMWATER POLLUTION PREVENTION PLAN

SCALE: NONE
 DATE: 9-13-19
 DRAWN: BC
 DESIGNED: EFS
 PROJECT NO.: 97013A-7
 SHEET: 7 OF 9

BC
 BC
 BY
 REVISION
 NO
 DATE
 NO
 2-14-20 2 PER CITY REVIEW
 1-24-20 1 PER CITY REVIEW



**TRANSPORTATION, ENGINEERING AND DEVELOPMENT BUSINESS GROUP
STANDARD CONSTRUCTION PLAN NOTES FOR DEVELOPMENT PROJECTS**

- THE OWNER OR HIS/HER/THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
- 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).
- ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.
- THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.
- 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.
- 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 SURVEY HAS BEEN POSTED.
- 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.
- 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.
- 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 INSPECTIONS).
- RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
- 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.

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.

- NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.
- 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.

STORM SEWER NOTES (STORM SEWER WORK IN PLANS)

- THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE CULVERTS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED.
 - REINFORCED CONCRETE PIPE (RCP)** - REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 78, CLASSES 1, 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.
 - 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.
 - 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.
 - 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.
 - HIGH DENSITY POLYETHYLENE PIPE (HDPE)** - HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM M 252 AND M 254. PIPE AND FITTINGS SHALL BE MADE FROM VIRGIN PE COMPOUNDS WHICH CONFORM TO THE REQUIREMENTS OF CELL CLASS 32420C AS DEFINED AND DESCRIBED IN ASTM D 3350. RUBBER GASKET JOINTS SHALL BE USED.
- 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.
- BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-6 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS. CASCADE CSS, ROMAC LESS, FERROCO, 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. ALL NUTS AND BOLTS FOR COUPLINGS SHALL BE STAINLESS STEEL.
- 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 C478-95 (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.
- 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.

EROSION CONTROL AND DRAINAGE NOTES (GENERAL)

- MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH RAMP 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/A616M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT. MEETING OR EXCEEDING ASTM C 478-95 (OR LATEST EDITION) AND OSHA STANDARDS.
- 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 (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. 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.
 - PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL.
 - BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, OR APPROVED EQUAL.
 - DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, OR APPROVED EQUAL.
 - MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, OR APPROVED EQUAL.
 - 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 EM1 RADIAL FLAT GRATE, OR APPROVED EQUAL MAY BE USED.
- THE STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS INSIDE AND OUT, AND SHALL BE OF LEAK PROOF CONSTRUCTION, CAPABLE OF WITHSTANDING THE ANTICIPATED LOADINGS. SEE TABLE 200-1 IN THE NAPERVILLE STANDARD SPECIFICATIONS FOR THE MINIMUM WALL THICKNESSES OF VARIOUS STEEL CASING DIAMETERS.
- THE STEEL CASING PIPE SHALL HAVE MINIMUM YIELD STRENGTH OF 35,000 PSI AND SHALL MEET THE REQUIREMENTS OF A139/A139M-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.

EROSION CONTROL AND DRAINAGE NOTES (PROJECT SPECIFIC)

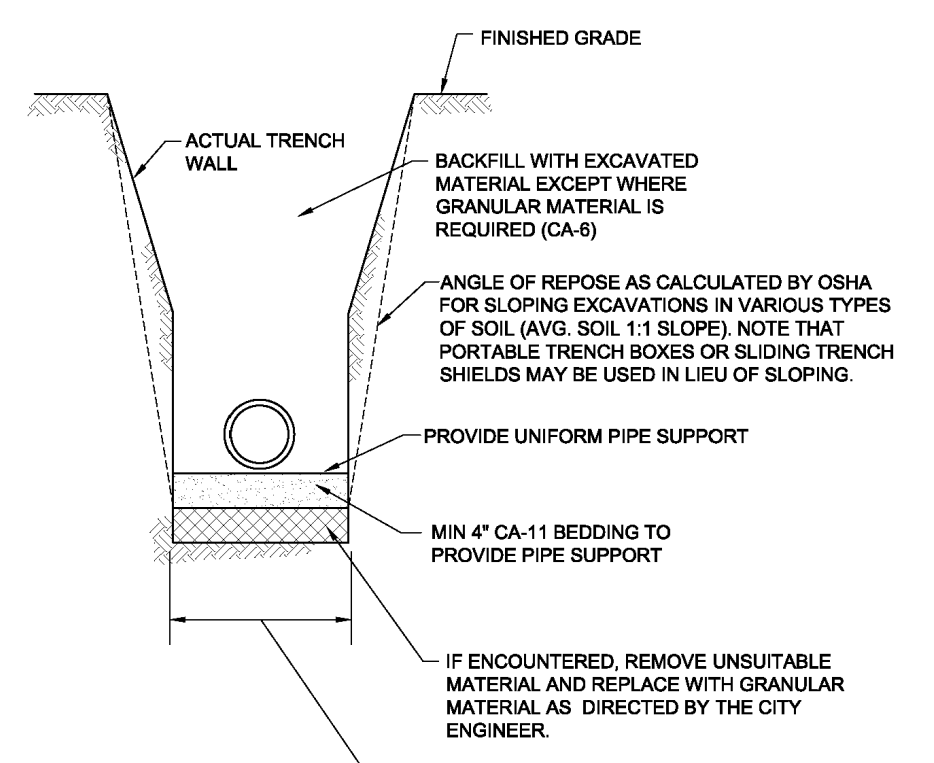
- ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.
- ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.
- ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. INLET BASKETS ARE THE PREFERRED METHOD, STRAW BALES SHALL NOT BE USED.
- STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.

GEOMETRIC AND PAVING NOTES (GENERAL)

- 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.
- ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER.
- 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. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.
- 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.
- WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE, THE EXISTING 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 PROVIDES 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.

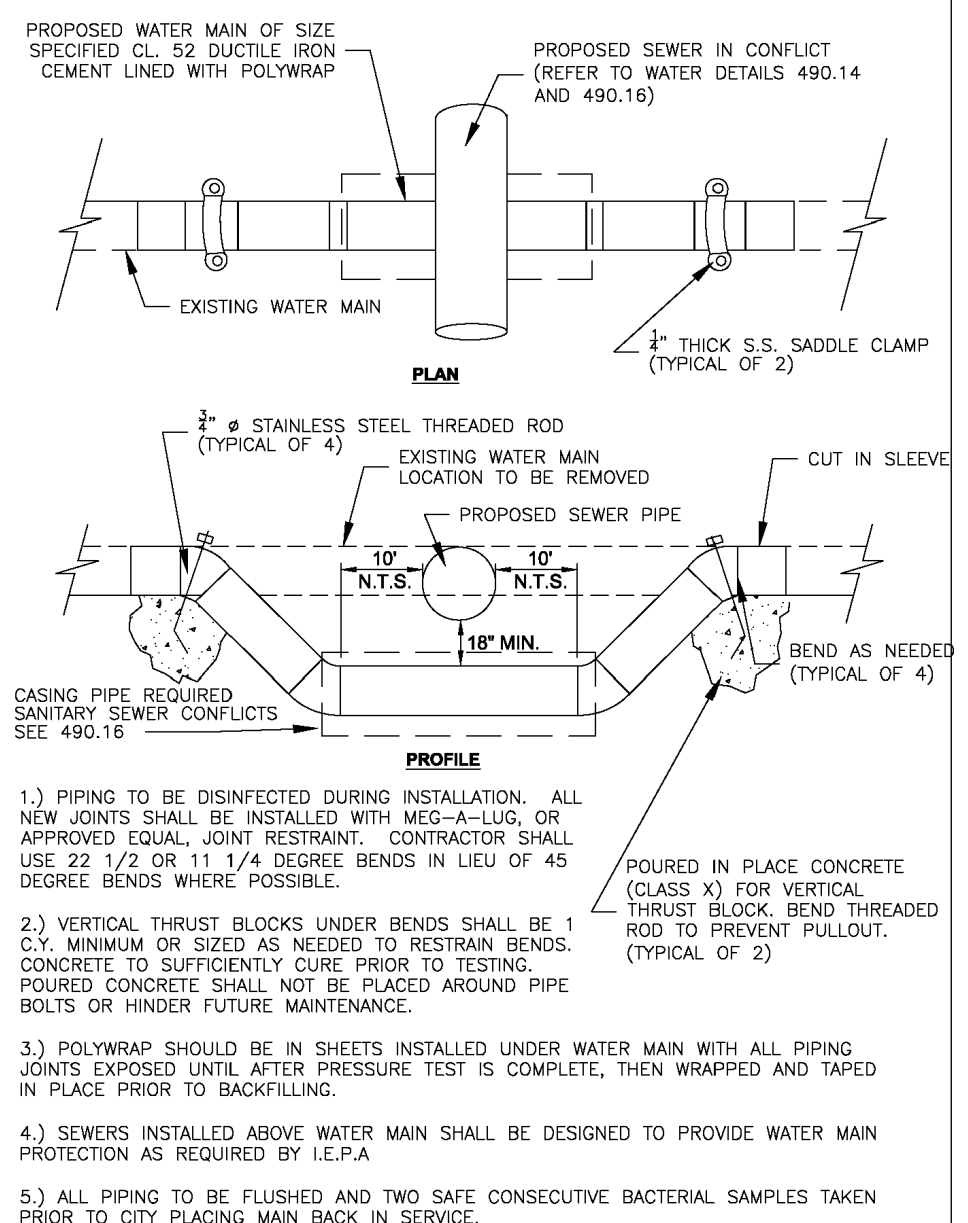
TRAFFIC CONTROL AND PROTECTION NOTES (GENERAL)

- ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 8 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. TRAFFIC CONTROL MUST BE PROVIDED FOR ANY ACTIVITY THAT IMPACTS TRAFFIC FLOW. THIS INCLUDES, BUT IS NOT LIMITED TO, ROAD CLOSURES REQUIRING DETOURS, DAILY LANE CLOSURES, LONG TERM LANE CLOSURES, NARROW LANES, AND CONSTRUCTION VEHICLES ENTERING AND EXITING THE PUBLIC ROADWAY. ALL TRAFFIC CONTROL SET UPS MAY BE INSPECTED BY THE CITY OF NAPERVILLE TO ENSURE THAT THEY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST PROVIDE PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES.
- PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. GUIDANCE MUST BE PROVIDED TO PEDESTRIANS SO THAT THEY MAY AVOID THE WORK ZONE. SAID PEDESTRIANS DETOUR PLAN (WITH SIGNAGE) IS TO BE REVIEWED AND ACCEPTED BY THE CITY IN WRITING, PRIOR TO THE COMMENCEMENT OF THE WORK.
- THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF VEHICLES, AND PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY ENGINEER.
- ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

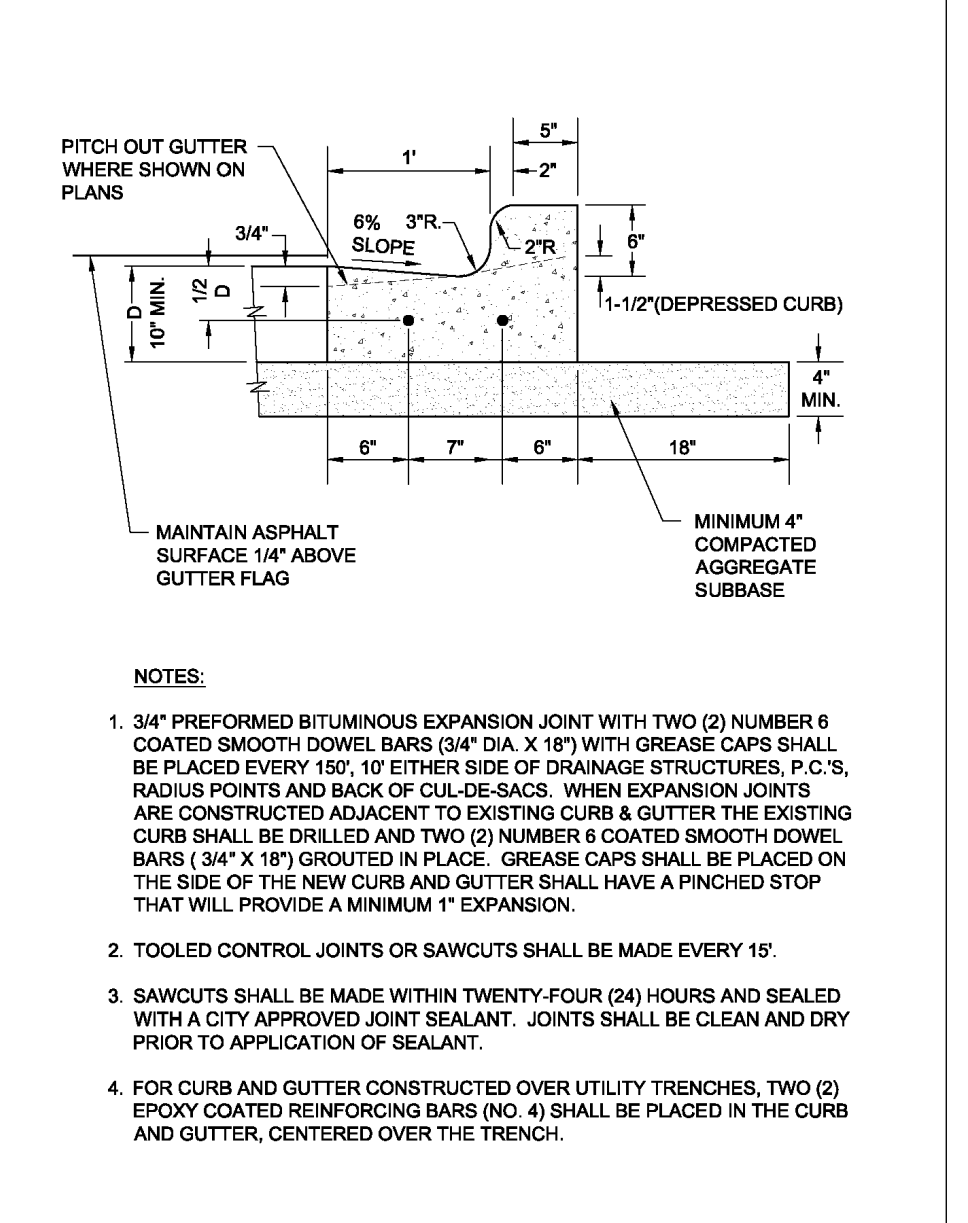


- NOTES:**
- IN PAVED AREAS ALL TRENCHES SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 560.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, METHOD 1, 80% MINIMUM STANDARD PROCTOR.
 - DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM. POLYETHYLENE ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH AWWA C105A21.5-99 (OR LATEST EDITION).
 - STAINLESS STEEL NUTS, BOLTS/IT-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 REPAIRED WITH FIELD APPLIED, APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEIZ OR APPROVED EQUAL.

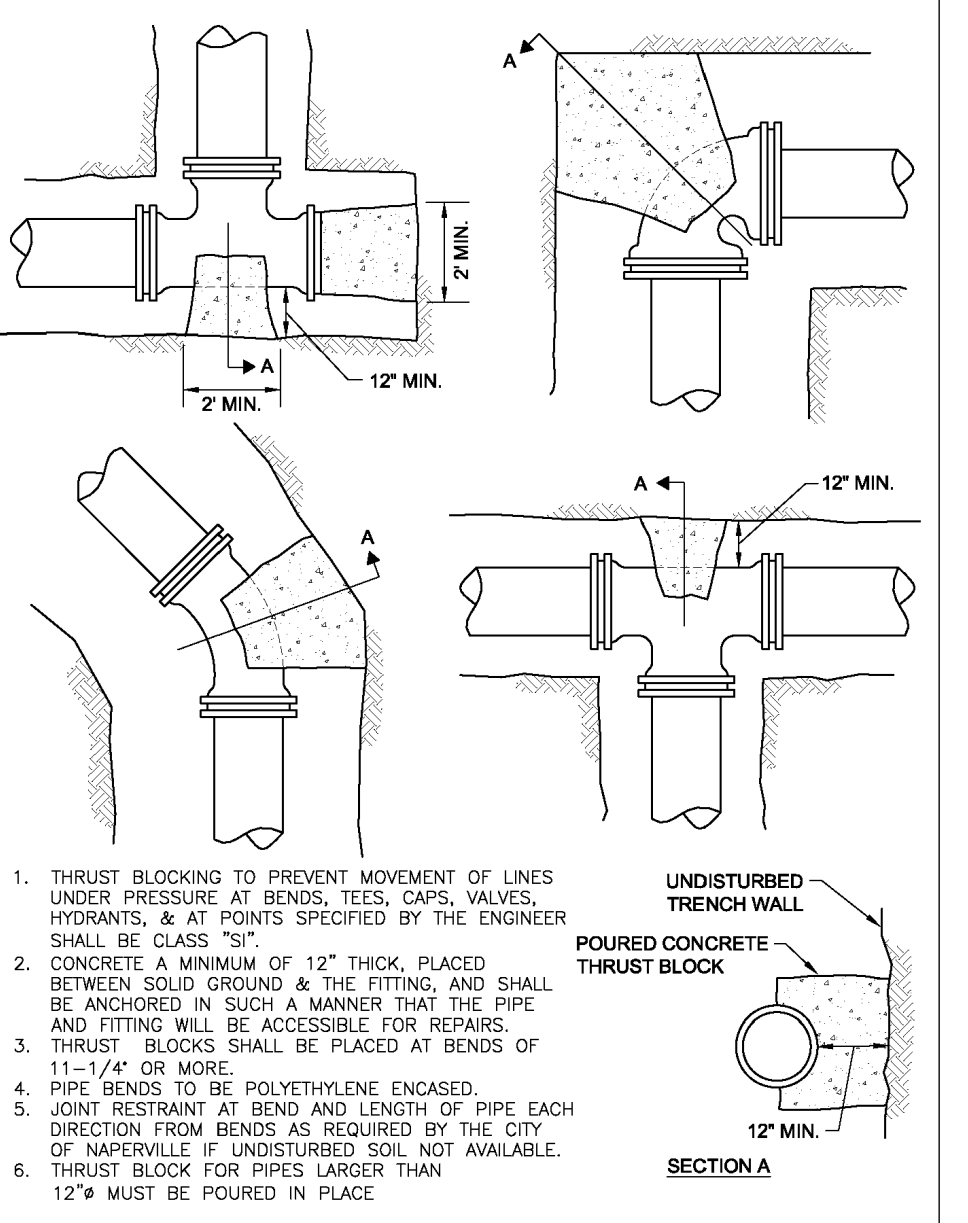
City of Naperville STANDARD DETAIL	WATER MAIN TRENCH SECTION	WATER 10
REVISED 01/01/2013	SHEET 1 OF 1	490.10



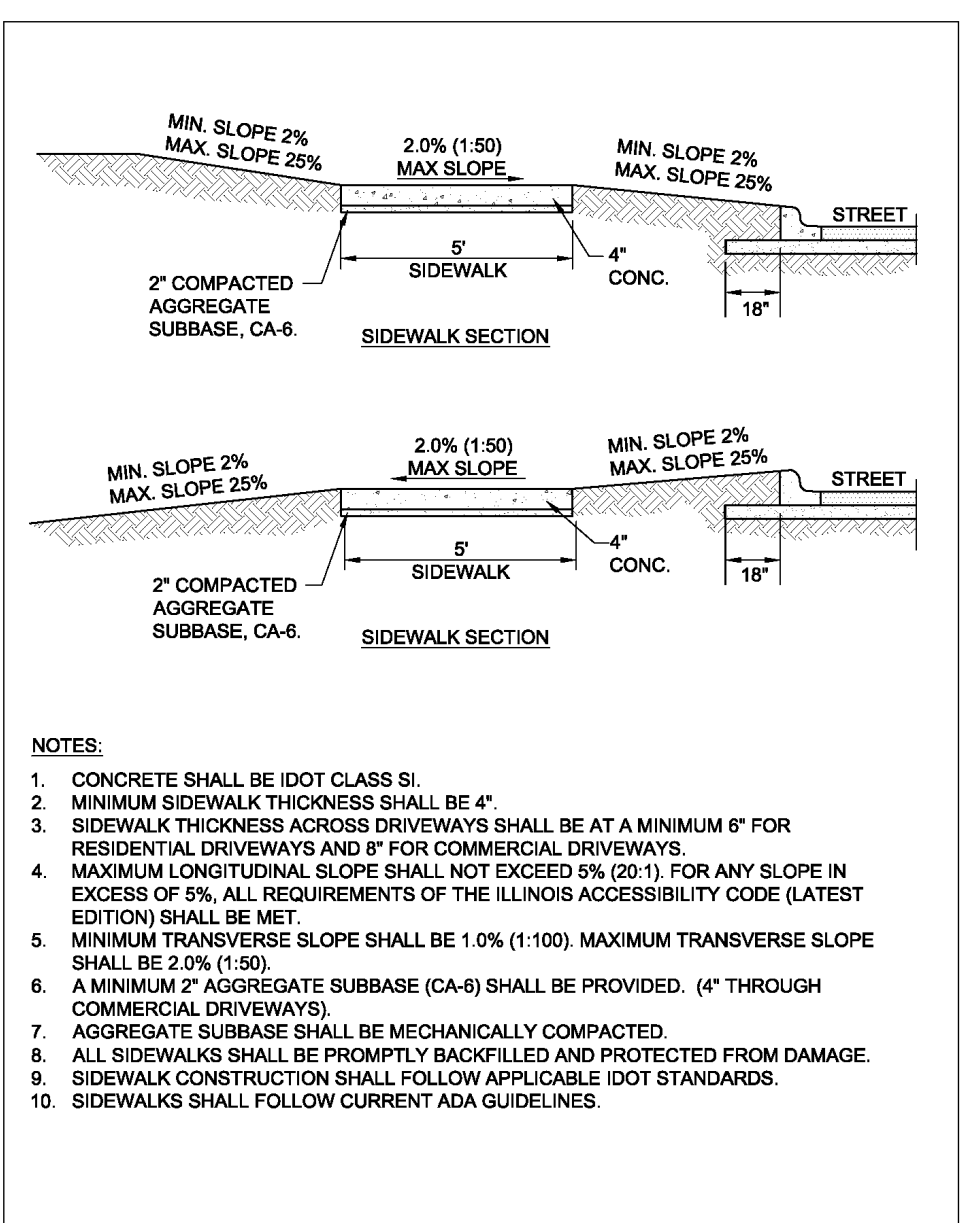
City of Naperville STANDARD DETAIL	WATERING/ADJUSTING WATER MAIN	WATER 13
REVISED 09/15/2015	SHEET 1 OF 1	490.13



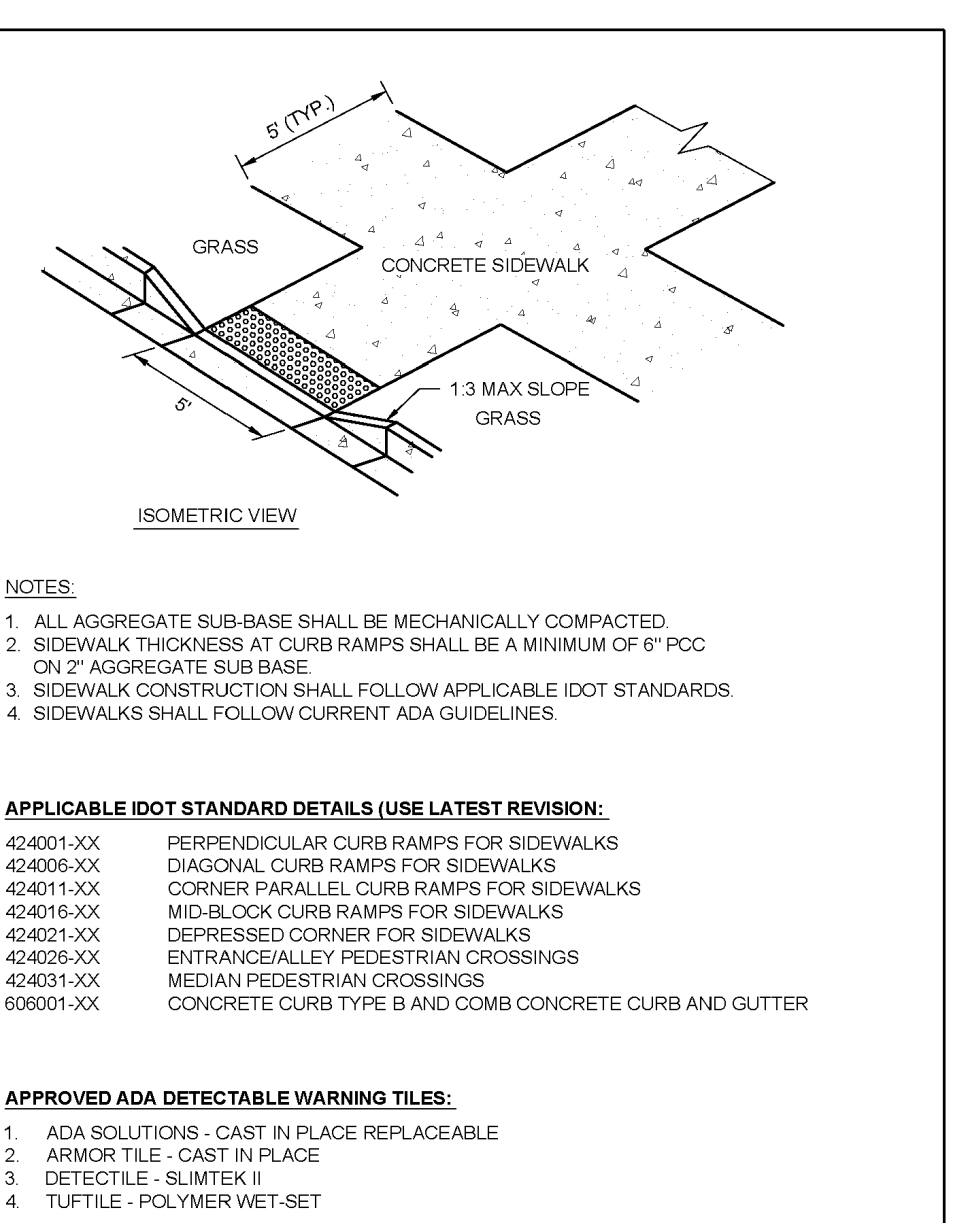
City of Naperville STANDARD DETAIL	B6.12 BARRIER CURB & GUTTER	PAVEMENT 20
REVISED 01/01/2013	SHEET 1 OF 1	590.20



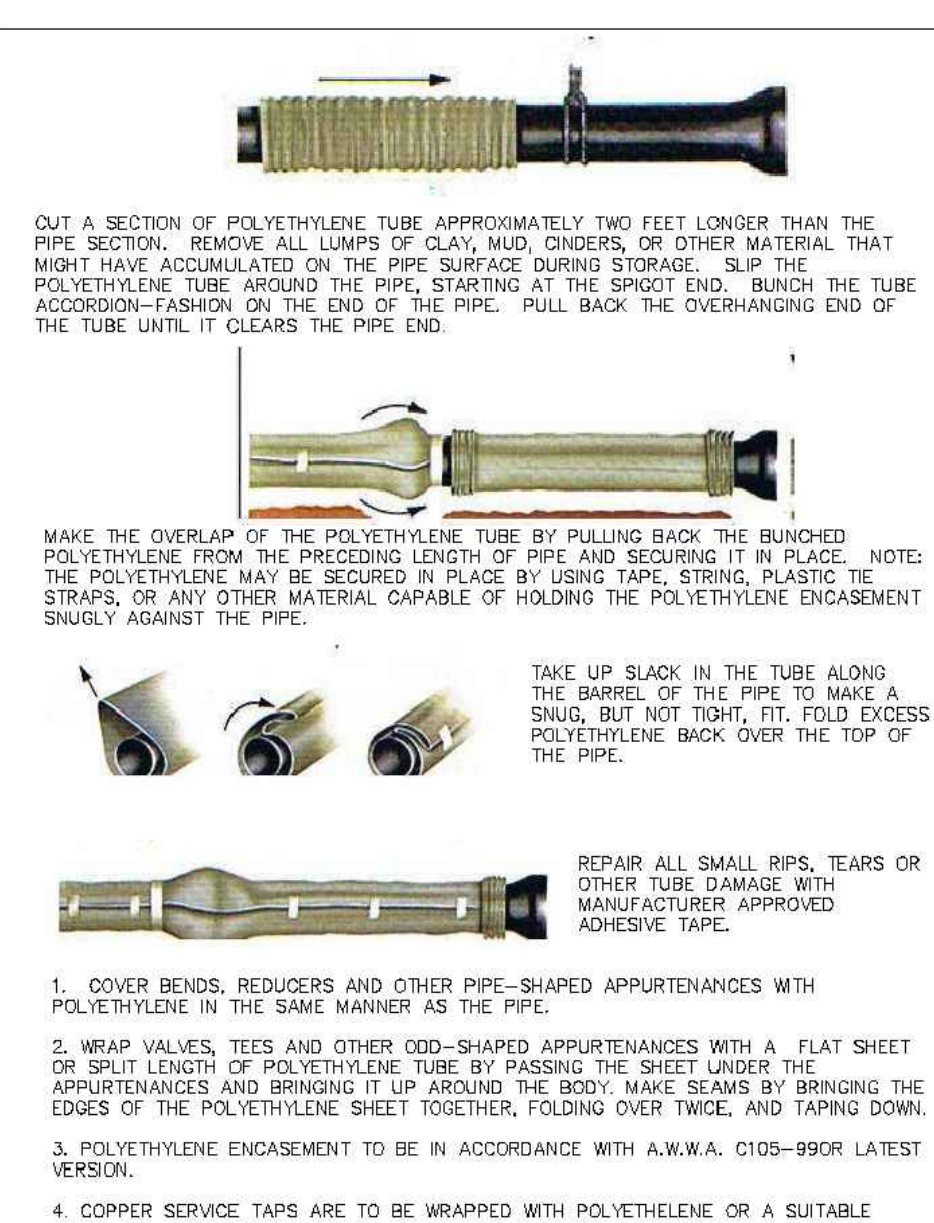
City of Naperville STANDARD DETAIL	THRUST BLOCK	WATER 11
REVISED 09/15/2015	SHEET 1 OF 1	490.11



City of Naperville STANDARD DETAIL	SIDEWALK	PAVEMENT 30
REVISED 01/01/2013	SHEET 1 OF 1	590.30



City of Naperville STANDARD DETAIL	CURB RAMPS	PAVEMENT 32
REVISED 09/01/2015	SHEET 1 OF 1	590.32



City of Naperville STANDARD DETAIL	POLYETHYLENE ENCASEMENT	WATER 15
REVISED 01/01/2013	SHEET 1 OF 1	490.15

INTECH CONSULTANTS, INC.
 1889 UNIVERSITY LANE, SUITE D
 ENGINEERS - SURVEYORS
 LISLE, ILLINOIS 60532
 ILLINOIS REGISTRATION NO. 184-001040
 PHONE: 630-964-5666

NAPERVILLE CROSSINGS
 STATION 1, LLC
 11501 NORTHLAKE DRIVE
 CINCINNATI, OH 45249

BUILDING 7
 NAPERVILLE CROSSINGS
 NAPERVILLE, ILLINOIS

DETAILS

SCALE: NONE
 DATE: 9-13-19
 DRAWN: BC
 DESIGNED: EFS
 PROJECT NO.: 97013A-7
 SHEET: 9 OF 9

2-14-20 2 PER CITY REVIEW
 1-24-20 1 PER INT REVIEW
 DATE NO. REVISION