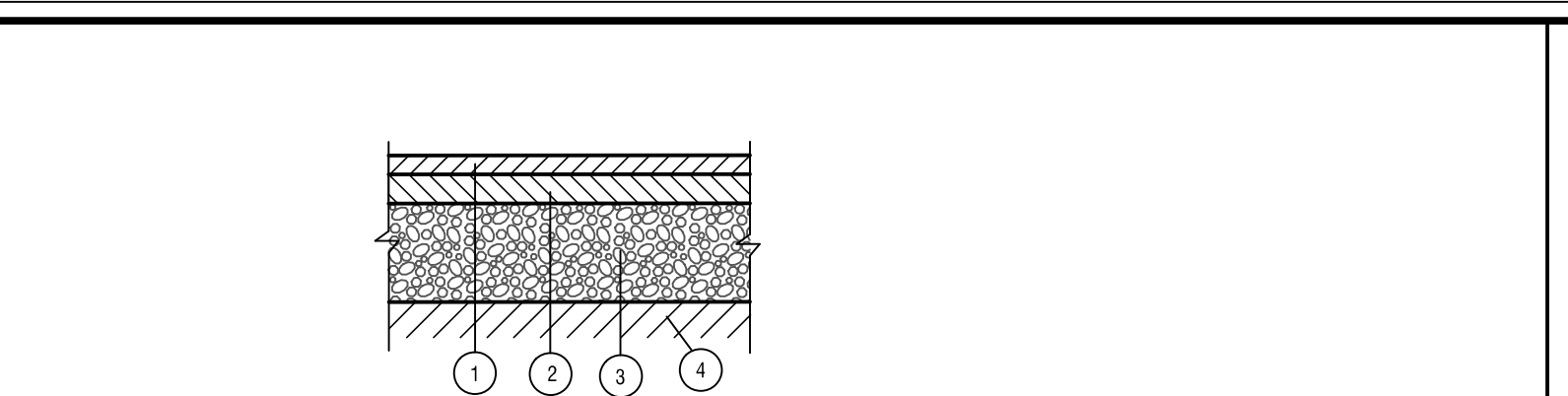


GENERAL NOTES	
1. REFERENCED CODES	<p>A. ALL PAVEMENT AND STORM SEWER CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) ADOPTED JANUARY 1, 2022, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2022, BY ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE CODE OF THE MUNICIPALITY, EXCEPT AS MODIFIED HEREIN. IN CASE OF CONFLICT, MUNICIPAL CODE SHALL TAKE PRECEDENCE.</p> <p>B. ALL SANITARY SEWER AND WATERMAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, PUBLISHED JANUARY 2014, AND IN ACCORDANCE WITH THE CODE OF THE MUNICIPALITY, EXCEPT AS MODIFIED HEREIN OR BY ANY PUBLIC AGENCY PERMITS ISSUED FOR THIS WORK. IN CASE OF CONFLICT, THE MORE RESTRICTIVE PROVISIONS SHALL APPLY.</p> <p>C. ALL SIDEWALK AND PUBLIC AREAS MUST BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA, ILLINOIS HANDICAP ACCESSIBILITY AND ANY APPLICABLE LOCAL ORDINANCES. WHEN CONFLICTS EXIST BETWEEN THE GOVERNING AGENCIES, THE MORE STRINGENT SHALL GOVERN.</p> <p>D. THE CITED STANDARD SPECIFICATIONS, CODES AND PERMITS, WITH THESE CONSTRUCTION PLANS AND DETAILS, ARE ALL TO BE CONSIDERED PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT.</p>
2. UTILITY LOCATIONS	<p>A. THE UTILITY COMPANIES HAVE BEEN CONTACTED IN REFERENCE TO UTILITIES THEY OWN AND OPERATE WITHIN THE LIMITS FOR THIS PROJECT. DATA FROM THESE AGENCIES HAS BEEN INCORPORATED INTO THE PLANS. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL UTILITY FACILITIES AND THEIR EXACT LOCATIONS, AND TO SAFELY SCHEDULE ALL UTILITY RELOCATIONS. FOR ADDITIONAL INFORMATION, THE AGENCIES LISTED ON THIS SHEET MAY BE CONTACTED.</p> <p>B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800-892-0123 AND THE MUNICIPALITY FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND THE MUNICIPALITY TWENTY-FOUR (24) HOURS PRIOR TO STARTING ANY CONSTRUCTION.</p> <p>C. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.</p>
3. UTILITY COORDINATION	<p>A. OWNER SHALL OBTAIN EASEMENTS AND PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS.</p> <p>B. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION OPERATIONS DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE SCHEDULE SHOULD REFLECT CONFLICTS WHICH COORDINATE WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE ORDER OF ITS WORK FROM TIME TO TIME, TO COORDINATE SAME WITH UTILITY RELOCATION WORK, AND SHALL PREPARE REVISED SCHEDULE(S) IN COMPLIANCE THEREWITH AS DIRECTED BY THE OWNER.</p> <p>C. THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRING COOPERATION WITH OTHERS. AT/S/ SHALL BE CONTACTED ONE MONTH PRIOR TO START OF CONSTRUCTION IN ITS UTILITY AREAS. ALL OTHER AGENCIES, UNLESS OTHERWISE NOTED, SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR TEN (10) DAYS PRIOR TO THE START OF ANY SUCH OPERATION.</p> <p>4. PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO ENGINEER BEFORE DOING ANY WORK. OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.</p>
5. ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.	
6. UPON AWARDING OF THE CONTRACT, AND WHEN REQUIRED BY THE MUNICIPALITY OR OWNER, THE CONTRACTOR SHALL FURNISH A LABOR, MATERIAL AND PERFORMANCE BOND IN THE AMOUNT REQUIRED GUARANTEEING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE MUNICIPALITY OR OWNER, AS APPROPRIATE.	
7. THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLORATIONS AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT THE LOCATION OF THE PROPOSED WORK. HOWEVER, IF THE OWNER HAS A SOILS REPORT, THE RESULTS WILL BE AVAILABLE FROM THE OWNER UPON WRITTEN REQUEST.	
8. CONTRACTOR SHALL VIDEO TAPE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.	
9. COMMENCING CONSTRUCTION	<p>A. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES, EITHER MUNICIPALITY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. ALL MATERIAL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR. THE TESTING AGENCY SHALL MEET THE APPROVAL OF THE OWNER.</p> <p>B. FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES TO BE UNABLE TO VISIT SITE AND PERFORM TESTING WILL CAUSE CONTRACTOR TO SUSPEND OPERATION (PERTAINING TO TESTING) UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF TESTING OF WORK TO BE BORNE BY CONTRACTOR.</p>
10. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC. AT NO TIME SHALL ACCESS BE DENIED TO ADJACENT PROPERTIES.	
11. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE DEVELOPER'S ENGINEER AT CONTRACTOR'S COST.	
12. ANY EXISTING SIGNS, LIGHT STANDARDS AND UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT HIS OWN EXPENSE AS SHOWN ON THE ENGINEERING PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND RESET OF ANY STAKES REQUIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE PROJECT. ANY SIGNS NOT REQUIRED TO BE RESET, SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.	
13. REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER CURVERTS, ETC. SHALL BE DISPOSED OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. HE IS RESPONSIBLE FOR ANY PERMIT REQUIRED FOR SUCH DISPOSAL.	
14. ALL FIELD TIE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR SHALL BE RESTORED TO PROPER OPERATING CONDITION. THE VILLAGE SHALL BE NOTIFIED WHEN A FIELD TIE IS DISCOVERED BEFORE WORK BEGINS A RECORD OF THE LOCATION OF ALL FIELD TIES OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER, DEVELOPER OR MUNICIPAL ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.	
15. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB.	
16. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH OIL AND GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL, REQUIRED FOR CLEAN-UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.	
17. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO PROPER OPERATING CONDITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS SPECIFICALLY NOTED ON THE PLANS.	
18. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF (SSRBC) ARTICLE 201.05.	
19. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT MEETING THE OWNERS APPROVAL AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION.	
20. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE OFF-SITE.	
21. ALL CUTS OVER 1" IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. WOUNDS OVER 1" IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT.	
22. GENERAL EXCAVATION/UNDERGROUND NOTES	<p>A. SLOPE SIDES OF EXCAVATIONS TO COMPLY WITH CODES AND ORDINANCES HAVING JURISDICTION. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE EITHER BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING.</p> <p>B. PROVIDE MATERIALS FOR SHORING AND BRACING, SUCH AS SHEET PILING, UPRIGHTS, STRINGERS AND CROSS BRACES, IN GOOD SERVICEABLE CONDITION. PROVIDE MINIMUM REQUIREMENTS FOR TRENCH SHORING AND BRACING TO COMPLY WITH CODES AND AUTHORITIES HAVING JURISDICTION. MAINTAIN SHORING AND BRACING IN EXCAVATIONS REGARDLESS OF TIME PERIOD EXCAVATIONS WILL BE OPEN. CARRY DOWN SHORING AND BRACING AS EXCAVATION PROGRESSES IN ACCORDANCE WITH OSHA AND GOVERNING AUTHORITY.</p>

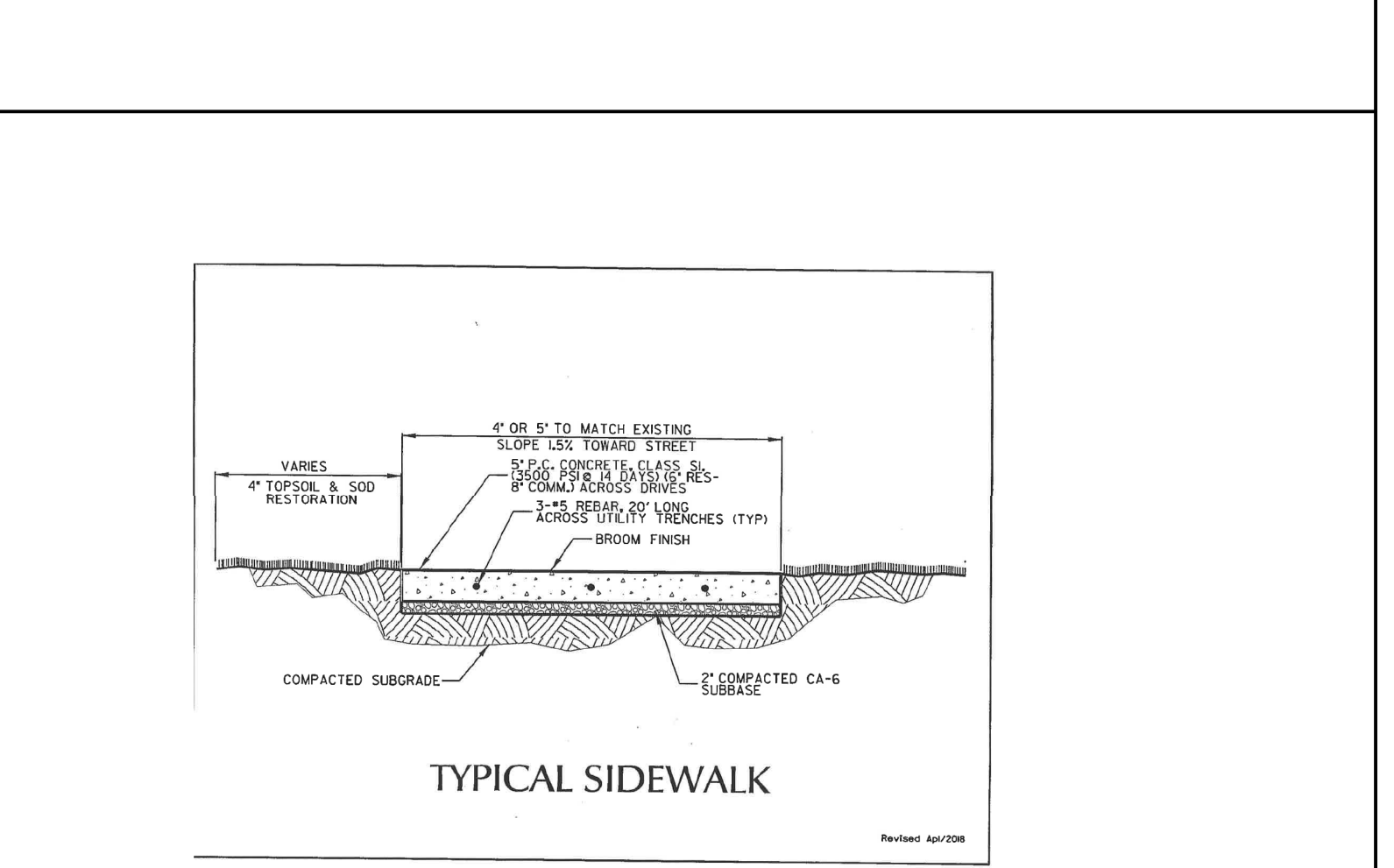
<p>C. PREVENT SURFACE WATER AND SUBSURFACE OR GROUNDWATER FROM FLOWING INTO EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND FOUNDATIONS. PROVIDE AND MAINTAIN PUMPS, SUMPS, SUCTION AND DISCHARGE LINES AND OTHER Dewatering SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS. CONVEY WATER REMOVED FROM EXCAVATIONS AND RAINWATER TO COLLECTING OR RUN-OFF AREAS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. PROVIDE AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS FOR EACH STRUCTURE. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.</p> <p>D. IMMEDIATELY REPORT CONDITIONS THAT MAY CAUSE UNLOAD BEARING TO THE OWNER/DEVELOPER BEFORE CONTINUING WORK.</p> <p>23. FINAL ACCEPTANCE</p> <p>A. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE CONDITION OF MATERIALS AND WORKMANSHIP OF WHATEVER NATURE DURING THAT PERIOD. THIS GUARANTEE SHALL BE PROVIDED IN THE FORM OF MAINTENANCE BOND IN THE AMOUNT OF 10% OF THE COST OF IMPROVEMENTS.</p> <p>B. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED.</p> <p>C. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE MUNICIPALITY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE MUNICIPALITY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE, AND PRIOR TO PLACING ANY CONCRETE AFTER FORMS HAVE BEEN SET.</p> <p>D. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.</p> <p>24. UNDERGROUND NOTES</p> <p>A. UNDERGROUND WORK SHALL INCLUDE TRENCHING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS, FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE PROJECT.</p> <p>B. WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR SYSTEMS WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL AND DISPOSAL OF DEBRIS AND DIRT. DRAINAGE STRUCTURES AND SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE. NO PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT.</p> <p>C. ANY Dewatering OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK UNLESS THERE IS A SPECIFIC LINE ITEM FOR Dewatering. IN THE EVENT THAT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED IN SEWER CONSTRUCTION, THE CONTRACTOR SHALL UPON APPROVAL OF THE OWNER AND/OR ENGINEERS OVER-EXCAVATE TO A DEPTH OF ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE PIPE.</p> <p>D. TRENCH BACKFILL WILL BE REQUIRED FOR THE FULL TRENCH DEPTH WITHIN TWO (2) FEET OF PROPOSED OR EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, AND SIDEWALKS AND EXTENDING A DISTANCE EQUAL TO A 1:1 SLOPE FROM SUBGRADE ELEVATION TO TOP OF PIPE. THE TRENCH BACKFILL SHALL CONSIST OF GRANULAR MATERIAL MEETING IDOT CA-6 GRADATION. THE TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH (SSRBC) SPECIFICATIONS. SETTING WITH WATER SHALL NOT BE PERMITTED. THE COST OF SUCH CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.</p> <p>E. THE CONTRACTOR SHALL INSTALL 4" X 4" X 8" (NOMINAL) POST AT THE TERMINUS OF THE SANITARY, WATER AND STORM SERVICE, SANITARY AND STORM MANHOLES, CATCH BASINS, INLETS AND WATER VAULTS. THE POST SHALL EXTEND 4" ABOVE THE GROUND. THE TOP 12" OF SAID POST SHALL BE PAINTED AS FOLLOWS: SANITARY - RED, WATERMAIN - BLUE, STORM - GREEN.</p> <p>F. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE EROSION CONTROL AT REAR YARD INLET LOCATIONS, AND AT OTHER LOCATIONS SELECTED BY THE ENGINEER, TO MINIMIZE THE AMOUNT OF SILTATION WHICH NORMALLY WOULD ENTER THE STORM SEWER SYSTEM.</p> <p>G. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ON THE ROAD SUBGRADES. WHENEVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO LOT AREAS OR THE STORM SEWER SYSTEM (IF AVAILABLE). DAMAGE TO THE ROAD SUBGRADE OR LOT GRADING DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING, OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE REPAIRED BY THE CONTRACTOR AT HIS COST.</p> <p>H. ALL TOP OF FRAMES FOR STORM AND SANITARY SEWERS AND VALVE VAULT COVERS ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE. THIS ADJUSTMENT IS TO BE MADE BY THE SEWER AND WATER CONTRACTOR AND THE COST IS TO BE CONSIDERED INCIDENTAL TO THE CONTRACT. THESE ADJUSTMENTS WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON FINAL INSPECTION OF THE PROJECT. FINAL GRADES ARE TO BE DETERMINED BY THE MUNICIPALITY AT THE TIME OF FINAL INSPECTION AND MAY VARY FROM PLAN GRADE.</p> <p>I. SLEEVES FOR UTILITY (COMED, TELEPHONE, ETC.) STREET CROSSING, SHALL BE INSTALLED WHERE DIRECTED BY THE OWNER. SLEEVES SHALL BE 6" PVC INSTALLED 30" BELOW THE TOP OF CURB AND EXTEND TWO FEET OUTSIDE THE CURB. TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.</p> <p>J. THE CONTRACTOR SHALL VERIFY THE SIZE AND INVERT ELEVATION OF ALL CONNECTIONS TO AVOID ANY CONFLICTS BEFORE STARTING WORK. NOTIFY OWNER OF ANY DISCREPANCIES.</p> <p>25. IT SHALL BE UNDERSTOOD THAT NEITHER THE MUNICIPALITY, ITS OFFICIALS, CONSULTANTS, NOR ITS EMPLOYEES ARE AGENTS OF OR REPRESENTATIVES OF THE OWNER. NONE-THE-LESS, THE MUNICIPALITY, ITS OFFICIALS AND EMPLOYEES ARE TO BE PROVIDED SAFE ACCESS TO ALL PHASES OF ALL WORK PERFORMED ON THE PROJECT SITE TO MONITOR THE QUALITY OF THE WORK AND ASSURE ITS CONFORMITY WITH THE PLANS AND SPECIFICATIONS. THERE SHALL BE NO PERSONAL LIABILITY UPON ANY OFFICIAL OR EMPLOYEE OF THE MUNICIPALITY ON ACCOUNT OF ACTIONS TAKEN OR NOT TAKEN IN THE COURSE OF THEIR WORK. THE CONTRACTOR MUST AT ALL TIMES MAINTAIN A SAFE ACCESS TO THE WORK FOR INSPECTORS. "SAFE" - MEANING CONDITIONS COMPLYING WITH ALL PROVISIONS OF ALL APPLICABLE AND RECOGNIZED SAFETY STANDARDS, FEDERAL, STATE AND LOCAL. IF ACCESS IS NOT SAFE AND INSPECTORS ARE NOT ALLOWED TO ENTER THE SITE, THE INSPECTOR CAN ORDER CESSATION OF THE WORK SO AFFECTED UNTIL SUCH TIME AS CONTRACTOR PROVIDES SAFE ACCESS.</p>

SEE SHEET MWRD-GN FOR MWRD GENERAL NOTES

DEMOLITION AND RECYCLING REQUIREMENTS	
<p>Village of Schaumburg Community Development Department 101 Schaumburg Court, Schaumburg, IL 60193-1999 (815) 353-4000</p>	
<p>The Village of Schaumburg supports efforts to salvage and reuse materials obtained during the demolition of existing buildings and site improvements as follows:</p>	
<p>Concrete, Masonry (bricks, CMUs): May be crushed and reused for fill when meeting the following gradations: Note: Materials shall be approved in writing by Owners Testing Company prior to using under buildings. CA-1 to CA-3 (1'-3'). Use for deeper sub-grade fill under pavement and building slabs; construction entrances, similar IDOT permitted uses. CA-7 (12'-1'). Use for granular trench backfill in utility trenches, shallow sub-grade fill under pavement and building slabs, similar IDOT permitted uses. CA-6 (18'-7'). Use for granular trench backfill in utility trenches, shallow sub-grade fill under pavement and building slabs, lower one-fourth of granular base under building slabs or pavements, typical IDOT permitted uses. Rubble greater than 4" in size may not be reused on site. Fences, steel and other metals shall be removed from the site.</p>	
<p>Asphalt Pavement: May be pulverized and reused as follows: Note: Shall never be used under buildings. Compacted in 4" max. lifts. Cannot measure compaction with Proctor value (too sticky), have to watch how much is compressing. Material containing up to 10% large (1/2"-1") particles. Use for backfill in undercut areas. Material containing few particles over 1/2" in size. Use as subgrade fill under roads, parking lots; use in lieu of bottom 2" of stone base course (compact before paving stone); backfill shallow trenches (max. 2-3 feet deep) if room for compactor.</p>	
<p>Miscellaneous:</p> <ul style="list-style-type: none"> Sewer and water pipes 6" deep or less shall be removed and the trench backfilled with CA-7 or compacted CA-6 aggregate. Sewer and water pipes over 6" deep may be removed per above, or completely filled with a flowable fill such as IDOT's Controlled Low Strength Material (CLSM). The CLSM shall be injected into the pipe via access holes or manholes at 300' intervals or closer. Sewer Pipes: Crush and remove reinforcing wire. May use for miscellaneous fill or sub-grade fill under pavements. Not under buildings. Existing stone base. Clean, not cut. Use for granular trench backfill in utility trenches, sub-grade fill under pavement, and lower one-fourth of granular base under building slabs and under buildings. Topsot may be striped and stockpiled as noted on the erosion control plans. Recycled material shall not be used in storm water management facilities. 	



- N.T.S.
- 1 1.5" HMA SURFACE COURSE, MIX "C", NS0
 - 2 3.5" HMA BINDER COURSE, IL 19.0, NS0
 - 3 12" AGGREGATE BASE COURSE, TYPE B
 - 4 COMPACTED AND STABLE SUBGRADE



VILLAGE OF SCHAUMBURG STANDARD ENGINEERING NOTES

- All bituminous concrete used for surface, binder and base courses is to have a Marshall Stability of 1700.
- All concrete work related to the site work shall be IDOT Class SI or Class PV with a compressive strength of 3500 psi at 14 days.
- Prior to placing any pavement material, the Contractor is responsible for properly preparing and compacting the subgrade. The required proof-roll must be witnessed by a village inspector. No pavement material is to be placed on wet or soft subgrade. If this condition exists, the Contractor is to stop work and immediately notify the village. No additional pavement work shall be done until the subgrade is corrected.
- All curbs constructed over a utility trench shall be reinforced with two #5 rebars for a length of 20 feet centered over the trench. Sidewalks shall be treated in the same manner using three #5 rebars.
- All sewer and water main construction shall be in conformance with the "Standard Specifications for Water and Sewer Main Construction in Illinois" latest edition.
- The contractor shall not install any sanitary sewer pipe or structures until he has a copy of the permit and permit drawings issued by the Metropolitan Water Reclamation District of Greater Chicago (MWRD) on the job site. This may also apply to storm sewer and/or detention facilities if they are included in the MWRD Watershed Management Permit.
- All manholes and valve vaults shall have the "Village of Schaumburg" and "Water", "Storm Sewer" or "Sanitary Sewer" cast into the lid. All open lids or gratas shall have the words "Drains to River, Dump no Waste" permanently inscribed. Frames shall be 9" high in paved areas (Neenah R-1713 Neenah R-1772 or approved equal) and 7" high in non-paved areas (Neenah R-1772 or approved equal).
- Band-seal connectors shall be used to join pipes of different materials.
- Use CA-6 granular trench backfill, compacted to 95% of Modified Proctor, or CA-7 aggregate, under and within a 1:1 slope from the bottom of all pavements, curbs and sidewalk.
- Any required Best Management Practices (BMP's) shall be installed as shown on the approved land development permit plans.
- All water main pipe 3" and larger shall be ductile iron pipe Class 52 conforming to ANSI A21.51 with cement lining unless otherwise approved by the Village Engineer. All water service lines 2" and smaller shall be Type K copper, unless otherwise noted.
- All water lines are to be pressure tested and chlorinated per the requirements of the Village of Schaumburg. Also, the minimum cover for all water mains and water service lines is 5.5 feet, with a maximum depth of 7 feet unless approved by the Director of Engineering and Public Works.
- COMED JUL 1ET, IL (630) 576-7094 CONTACT: ENG. DEPT.
- MCI (972) 729-6322 CONTACT: DEAN BOYERS
- IDOT DISTRICT 1 201 S. SCHAUMBURG COURT SCHAUMBURG, IL 60196 (847) 705-4541

LEGEND		
EXISTING	DESCRIPTION	PROPOSED
	DRAIN TILE	
	SANITARY SEWER	
	WATER MAIN (WITH SIZE)	
	GAS MAIN	
	ELECTRIC LINE	
	RIGHT-OF-WAY	
	PROPERTY LINE	
	CENTERLINE	
	SANITARY MANHOLE	
	CATCH BASIN	
	FIRE HYDRANT	
	VALVE AND VAULT, VALVE	
	UTILITY POLE	
	SIGN	
	SOIL BORING	
	DRAINAGE SLOPE	
	WATERS EDGE	
	REVERSE PITCH CURB	

ABBREVIATIONS

M = STORM MANHOLE	I = INVERT OR INLET	T/P = TOP OF PIPE
S = SANITARY MANHOLE	TF = TOP OF FOUNDATION	B/P = BOTTOM OF PIPE
CB = CATCH BASIN	GF = GARAGE FLOOR	WM = WATERMAIN
LP = LIGHT POLE	TC = TOP OF CURB	SAN = SANITARY SEWER
VV = VALVE VAULT	TD = TOP OF DEPRESSED CURB	STM = STORM SEWER
E = END SECTION	TW = TOP OF RETAINING WALL	LO = LOOK OUT
FH = FIRE HYDRANT	BW = BOTTOM OF RETAINING WALL	PLO = PARTIAL LOOK OUT
GR = GRADE RING (HYDRANT)	OP = OUTLET OF PIPE	

PERMITS			
DESCRIPTION	LOG NO.	PERMIT NO.	DATE ISSUED
IEPA NOI			
IEPA WATER			
IEPA SANITARY			
MWRD			
VILLAGE OF SCHAUMBURG			
IDNR	2310428		02/17/2023
IHPA			

CONTACT INFORMATION			
VILLAGE ENGINEER	COMCAST	G4S TECHNOLOGY LLC	
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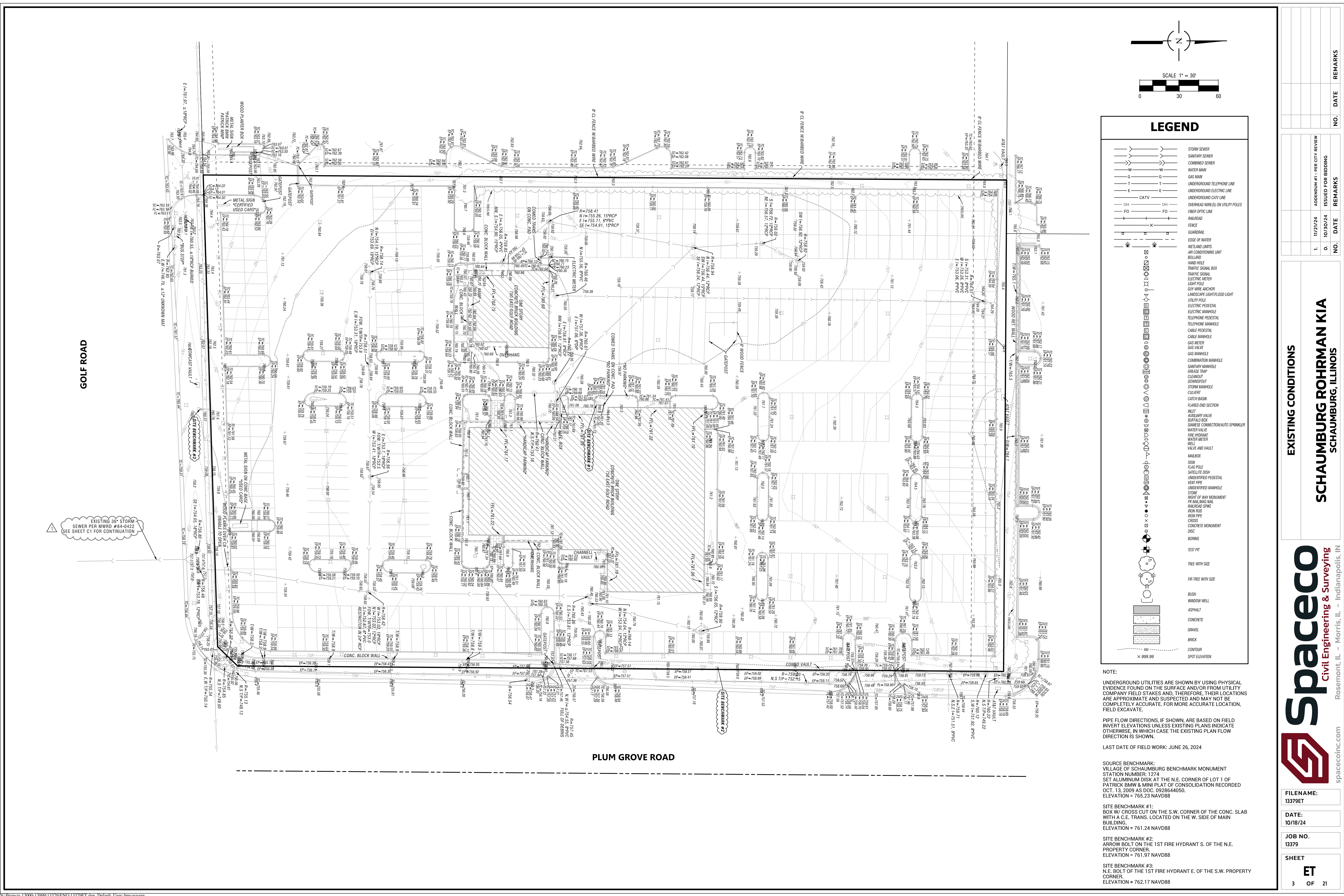
FILENAME:	13379GN
DATE:	10/18/24
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SHEET	GN
	2 OF 21

TYPICAL SECTIONS AND GENERAL NOTES

SCHAUMBURG ROHRMAN KIA
SCHAUMBURG, ILLINOIS

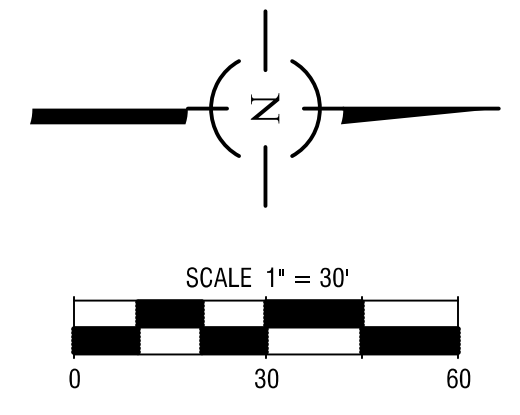
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NO.	DATE	ISSUED FOR	REMARKS
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GOLF ROAD

PLUM GROVE ROAD



LEGEND

- STORM SEWER
- SANITARY SEWER
- COMBINED SEWER
- WATER MAIN
- GAS MAIN
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND CATV LINE
- OVERHEAD WIRES ON UTILITY POLES
- FIBER OPTIC LINE
- RAILROAD
- FENCE
- GUARDRAIL
- EDGE OF WATER
- WETLAND LIMITS
- AIR CONDITIONING UNIT
- ROLLUP
- HAND HOLE
- TRAFFIC SIGNAL BOX
- TRAFFIC SIGNAL
- ELECTRIC METER
- LIGHT POLE
- GUY WIRE ANCHOR
- LANDSCAPE LIGHT/FLOOD LIGHT
- UTILITY POLE
- ELECTRIC PEDESTAL
- TELEPHONE PEDESTAL
- TELEPHONE MANHOLE
- CABLE PEDESTAL
- CABLE MANHOLE
- GAS METER
- GAS VALVE
- GAS MANHOLE
- COMBINATION MANHOLE
- SANITARY MANHOLE
- GREASE TRAP
- CLEANOUT
- DOWNSPOUT
- STORM MANHOLE
- CULVERT
- CATCH BASIN
- FLARED END SECTION
- INLET
- AUXILIARY VALVE
- BUFFALO BOX
- SQUARE CONNECTION/AUTO SPRINKLER
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- WELL
- VALVE AND VAULT
- MANHOLE
- SIGN
- FLAG POLE
- SATELLITE DISH
- UNIDENTIFIED PEDESTAL
- VENT PIPE
- UNIDENTIFIED MANHOLE
- STONE
- RIGHT OF WAY MONUMENT
- PK WALL/AG WALL
- RAILROAD SPIKE
- IRON ROD
- IRON PIPE
- CROSS
- CONCRETE MONUMENT
- DISC
- BORING
- TEST PIT
- TREE WITH SIZE
- FIR TREE WITH SIZE
- BUSH
- WINDOW WELL
- ASPHALT
- CONCRETE
- GRAVEL
- BRICK
- CONTOUR
- SPOT ELEVATION

EXISTING 36" STORM SEWER PER MWRD #84-0422 SEE SHEET C1 FOR CONTINUATION

NOTE:
UNDERGROUND UTILITIES ARE SHOWN BY USING PHYSICAL EVIDENCE FOUND ON THE SURFACE AND/OR FROM UTILITY COMPANY FIELD STAKES AND, THEREFORE, THEIR LOCATIONS ARE APPROXIMATE AND SUSPECTED AND MAY NOT BE COMPLETELY ACCURATE. FOR MORE ACCURATE LOCATION, FIELD EXCAVATE.

PIPE FLOW DIRECTIONS, IF SHOWN, ARE BASED ON FIELD INVERT ELEVATIONS UNLESS EXISTING PLANS INDICATE OTHERWISE, IN WHICH CASE THE EXISTING PLAN FLOW DIRECTION IS SHOWN.

LAST DATE OF FIELD WORK: JUNE 26, 2024

SOURCE BENCHMARK:
VILLAGE OF SCHAUMBURG BENCHMARK MONUMENT
STATION NUMBER: 1274
SET ALUMINUM DISK AT THE N.E. CORNER OF LOT 1 OF PATRICK BMW & MINI PLAT OF CONSOLIDATION RECORDED OCT. 13, 2009 AS DOC. 0928644050.
ELEVATION = 765.23 NAVD88

SITE BENCHMARK #1:
BOX W/ CROSS CUT ON THE S.W. CORNER OF THE CONC. SLAB WITH A C.E. TRANS. LOCATED ON THE W. SIDE OF MAIN BUILDING.
ELEVATION = 761.24 NAVD88

SITE BENCHMARK #2:
ARROW BOLT ON THE 1ST FIRE HYDRANT S. OF THE N.E. PROPERTY CORNER.
ELEVATION = 761.97 NAVD88

SITE BENCHMARK #3:
N.E. BOLT OF THE 1ST FIRE HYDRANT E. OF THE S.W. PROPERTY CORNER.
ELEVATION = 762.17 NAVD88

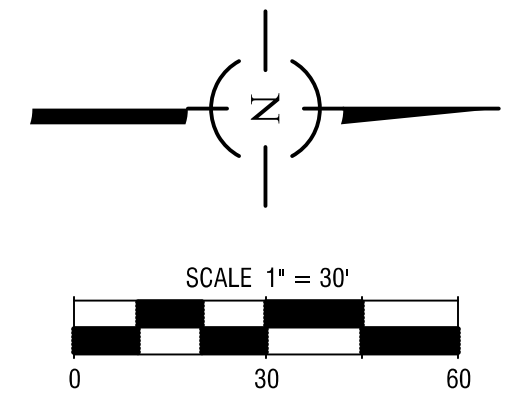
EXISTING CONDITIONS

SCHAUMBURG ROHRMAN KIA
SCHAUMBURG, ILLINOIS

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FILENAME:	13379ET
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	3 OF 21

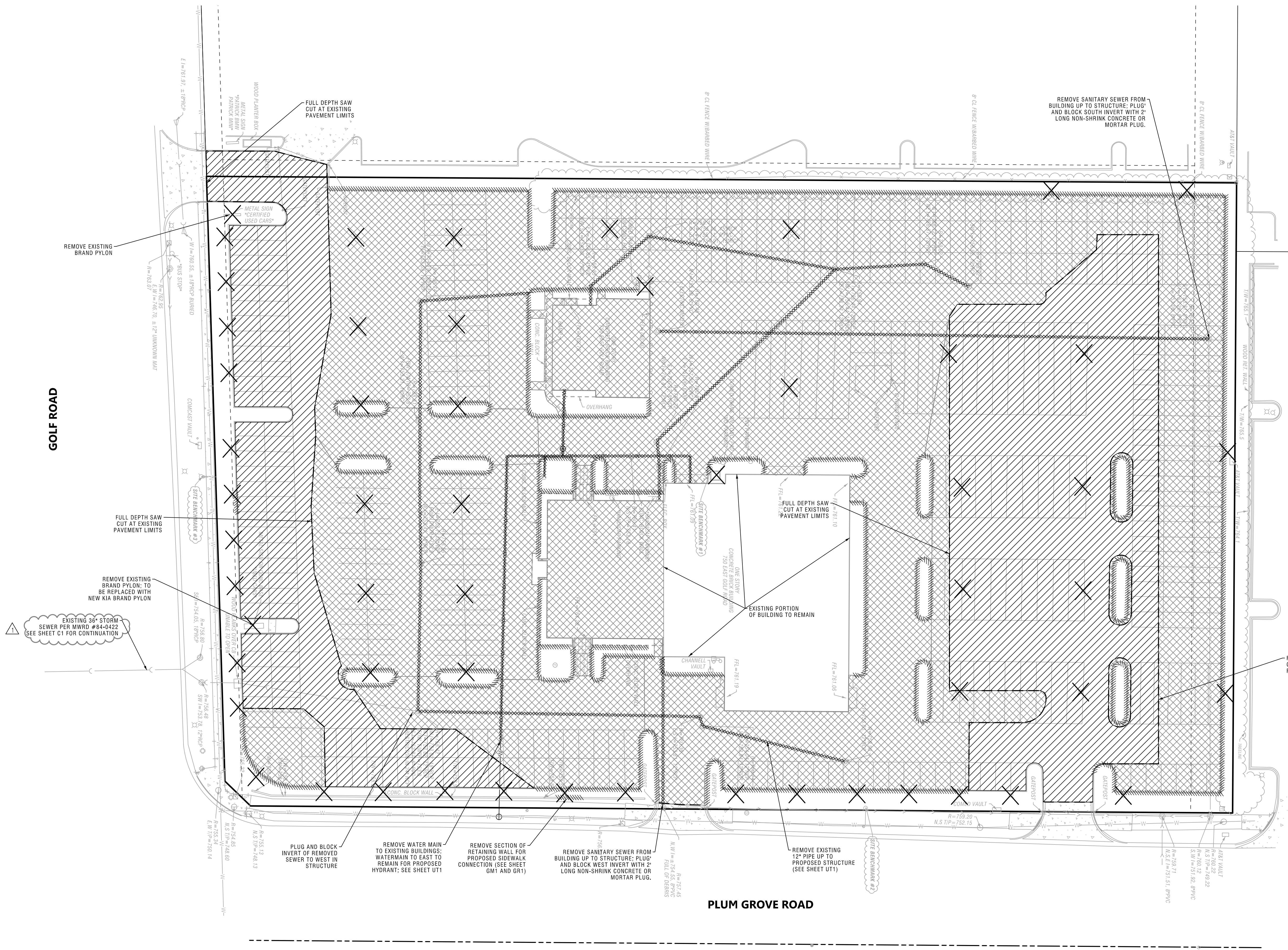
NO.	DATE	REMARKS
1.	11/21/24	ADDENDUM #1 - PER CITY REVIEW
0.	10/30/24	ISSUED FOR BIDDING



LEGEND

- REMOVE EXISTING PAVEMENT / BUILDING
- MILL & RESURFACE EXISTING PAVEMENT (2" DEPTH)
- REMOVE EXISTING CURB / RETAINING WALL
- REMOVE EXISTING UNDERGROUND UTILITY
- PAVEMENT SAWCUT (FULL DEPTH)
- REMOVE EXISTING SIGN / LIGHTPOLE (ALL ON SITE LIGHT POLES PROPOSED TO BE REMOVED)

- NOTES**
- IT IS REQUIRED THAT ALL EXISTING UTILITIES WITHIN OWNERSHIP AREA SHALL BE REMOVED, ABANDONED, CRUSHED IN-PLACE, OR FILLED AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER. CONSULTATION IS REQUIRED WITH CONTRACTOR, CLIENT, AND VILLAGE.
 - FULL DEPTH SAWCUTS ARE REQUIRED AT ALL EXISTING PAVEMENT SURFACES.
 - ALL PUBLIC UTILITY ABANDONMENTS ARE TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF SCHAUMBURG, UTILITIES DEPARTMENT.
 - THE VILLAGE OF SCHAUMBURG WATER DEPARTMENT MUST BE CONTACTED A MINIMUM OF 48 HOURS IN ADVANCE TO REQUEST A WATER MAIN SHUT DOWN. VALVES ON PUBLIC MAINS AND FIRE HYDRANTS MAY ONLY BE OPERATED BY WATER DEPARTMENT PERSONNEL.
 - ALL PERIMETER EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO THE START OF ANY DEMOLITION OR EXCAVATION.
 - ALL ABANDONED OR PLUGGED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST A 2 FOOT LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
 - ALL WATER MAIN SHUTDOWNS SHALL BE COORDINATED WITH THE VILLAGE OF SCHAUMBURG ENGINEERING AND PUBLIC WORKS DEPARTMENT (EPW). EPW WILL INVESTIGATE SHUTDOWNS PRIOR TO SCHEDULED CONSTRUCTION TO ENSURE THAT VALVES ARE FUNCTIONING PROPERLY. CONTRACTORS SHALL CONTACT EPW DISPATCH LINE (847-923-6612) A MINIMUM OF SEVEN DAYS PRIOR TO SHUTDOWN TO SCHEDULE THE PRE-SHUTDOWN INVESTIGATION. CONTRACTOR SHALL CONTACT EPW A MINIMUM OF 48 HOURS PRIOR TO SHUTDOWN TO CONFIRM SCHEDULE AND DETAILS OF SHUTDOWN.

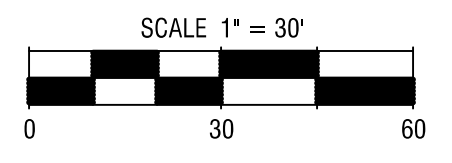
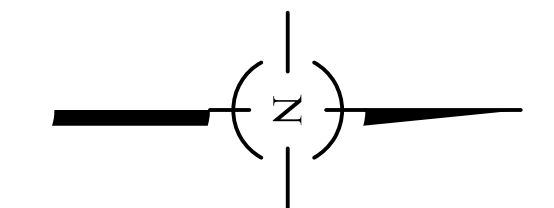
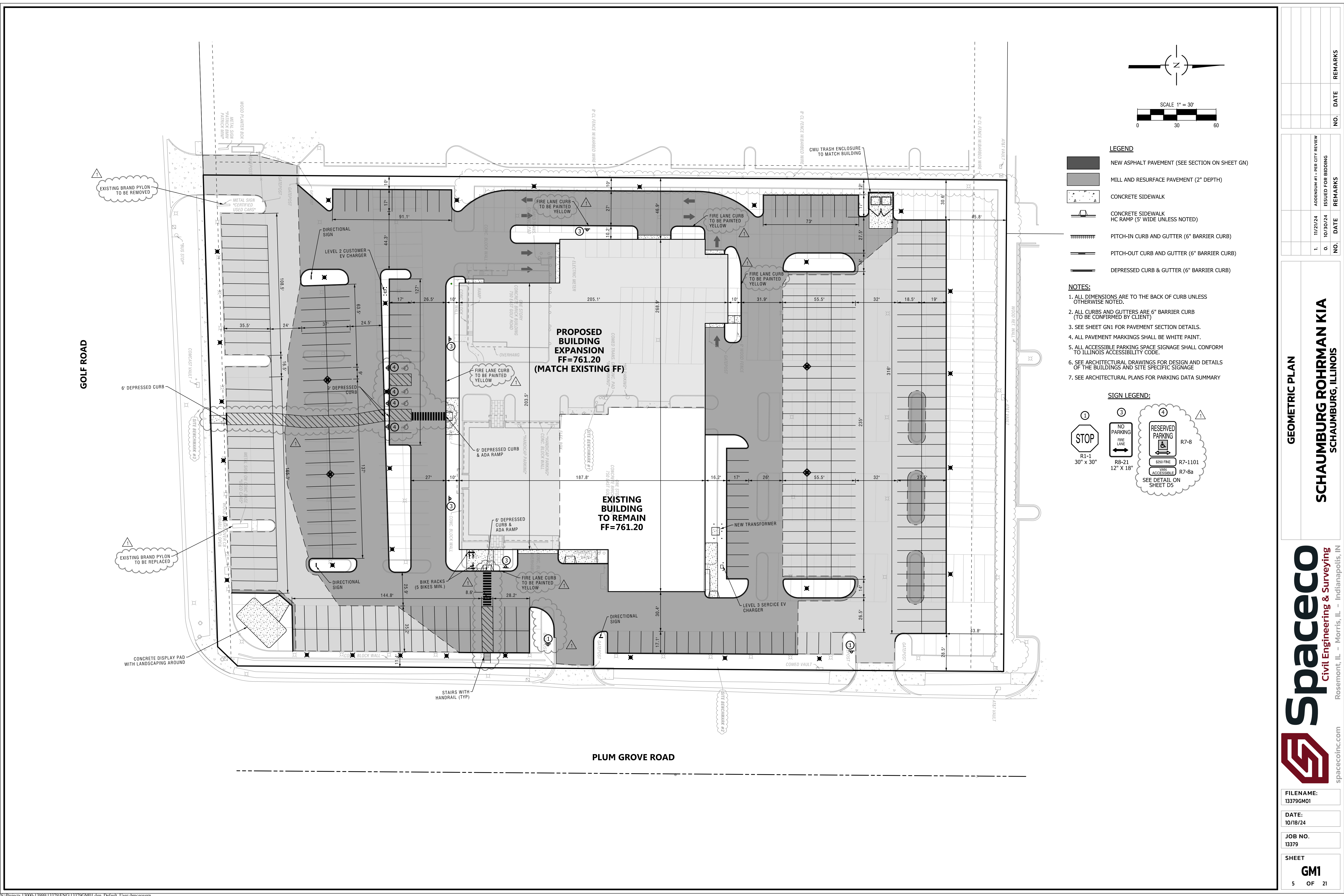


NO.	DATE	REMARKS
1.	11/21/24	
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DEMOLITION PLAN
SCHAUMBURG ROHRMAN KIA
SCHAUMBURG, ILLINOIS

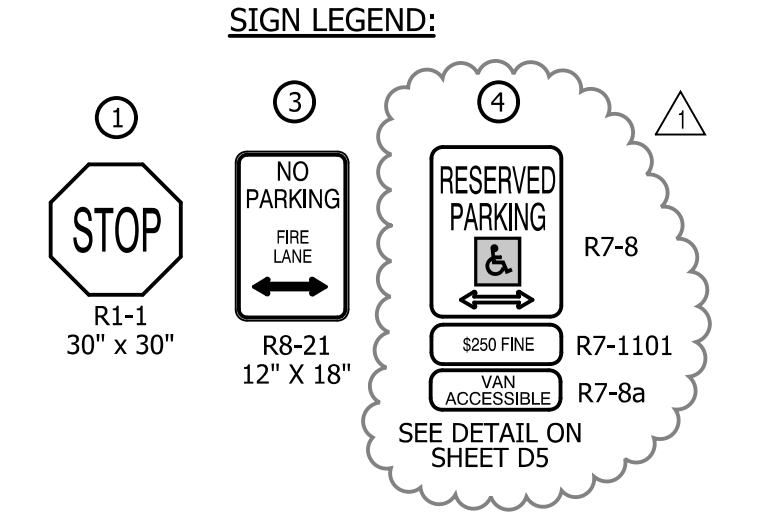


FILENAME: 13379DEMO
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- LEGEND**
- NEW ASPHALT PAVEMENT (SEE SECTION ON SHEET GN)
 - MILL AND RESURFACE PAVEMENT (2" DEPTH)
 - CONCRETE SIDEWALK
 - CONCRETE SIDEWALK HC RAMP (5' WIDE UNLESS NOTED)
 - PITCH-IN CURB AND GUTTER (6" BARRIER CURB)
 - PITCH-OUT CURB AND GUTTER (6" BARRIER CURB)
 - DEPRESSED CURB & GUTTER (6" BARRIER CURB)

- NOTES:**
1. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
 2. ALL CURBS AND GUTTERS ARE 6" BARRIER CURB (TO BE CONFIRMED BY CLIENT)
 3. SEE SHEET GN1 FOR PAVEMENT SECTION DETAILS.
 4. ALL PAVEMENT MARKINGS SHALL BE WHITE PAINT.
 5. ALL ACCESSIBLE PARKING SPACE SIGNAGE SHALL CONFORM TO ILLINOIS ACCESSIBILITY CODE.
 6. SEE ARCHITECTURAL DRAWINGS FOR DESIGN AND DETAILS OF THE BUILDINGS AND SITE SPECIFIC SIGNAGE
 7. SEE ARCHITECTURAL PLANS FOR PARKING DATA SUMMARY



NO.	DATE	REMARKS
1.	11/21/24	ADDENDUM #1 - PER CITY REVIEW
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NO.	DATE	REMARKS

GEOMETRIC PLAN

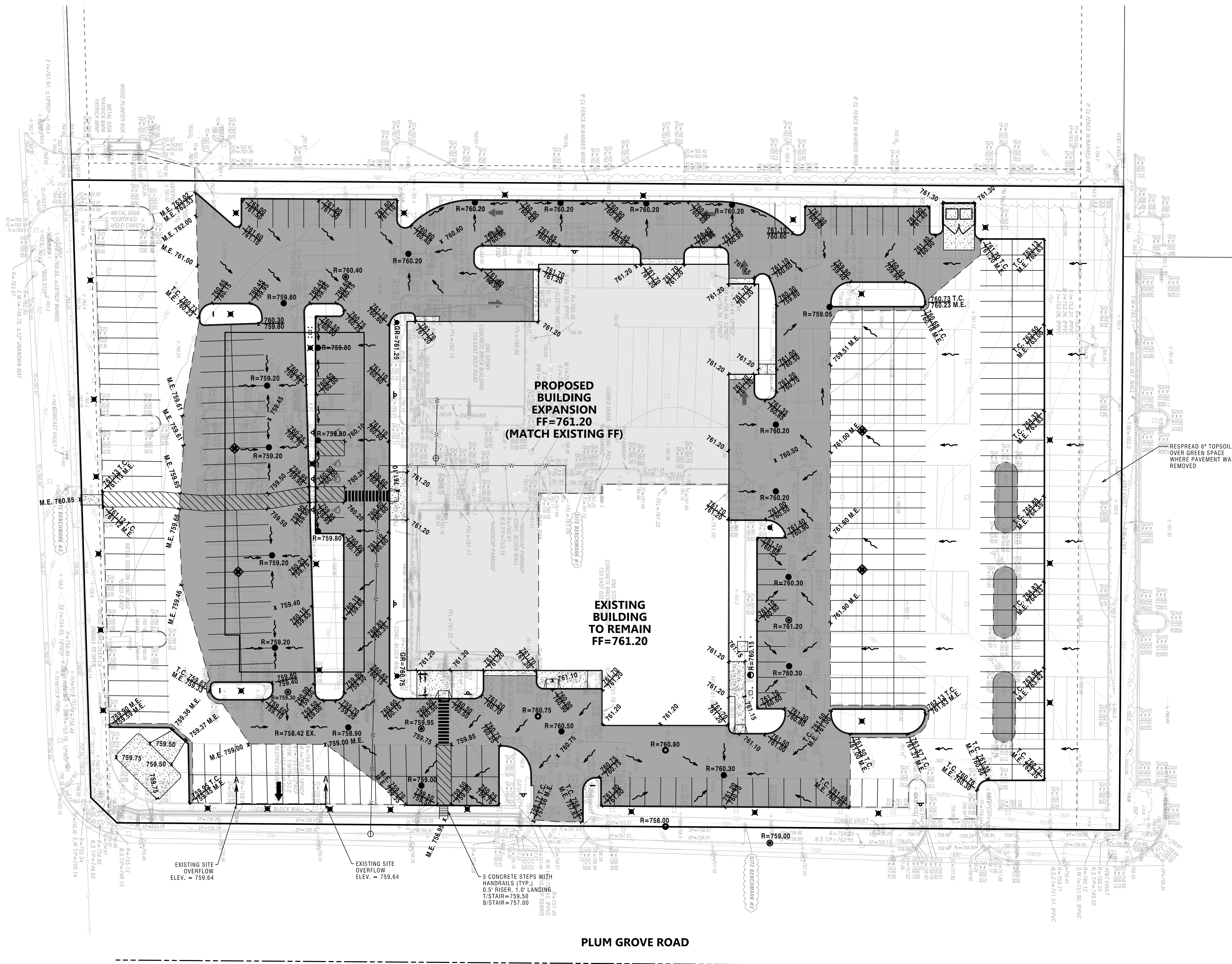
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SCHAUMBURG, ILLINOIS

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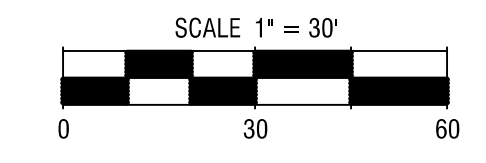
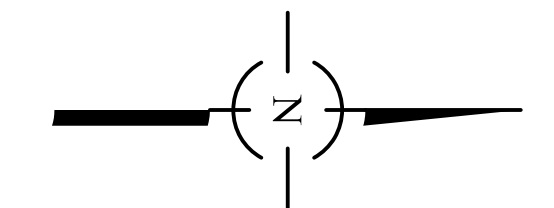
FILENAME: 13379GM01
DATE: 10/18/24
JOB NO. 13379
SHEET GM1 5 OF 21

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GOLF ROAD



PLUM GROVE ROAD



LEGEND

- F/F FINISHED FLOOR
- LOCAL DRAINAGE
- 100-YEAR OVERLAND FLOW ROUTE
- EXISTING PAVEMENT SAWCUT
- TOP OF CURB
- EDGE OF PAVEMENT
- SPOT GRADE

NOTES:

1. ADD 700 TO ELEVATIONS SHOWN AS XX.XX.
2. ALL CURB AND GUTTER IS PITCH OUT UNLESS NOTED OTHERWISE.
3. ALL SPOT GRADES ALONG CURB LINE ARE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
4. RESURF 6" TOPSOIL IN NEW PERVIOUS AREA WHERE PAVEMENT WAS REMOVED

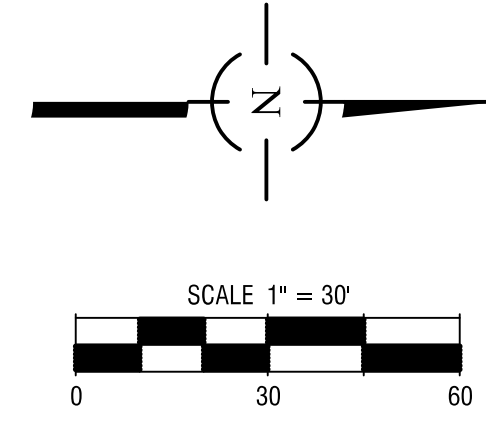
GRADING PLAN

SCHAUMBURG ROHRMAN KIA
SCHAUMBURG, ILLINOIS



FILENAME:	13379GRI
DATE:	10/18/24
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STORM STRUCTURE LEGEND

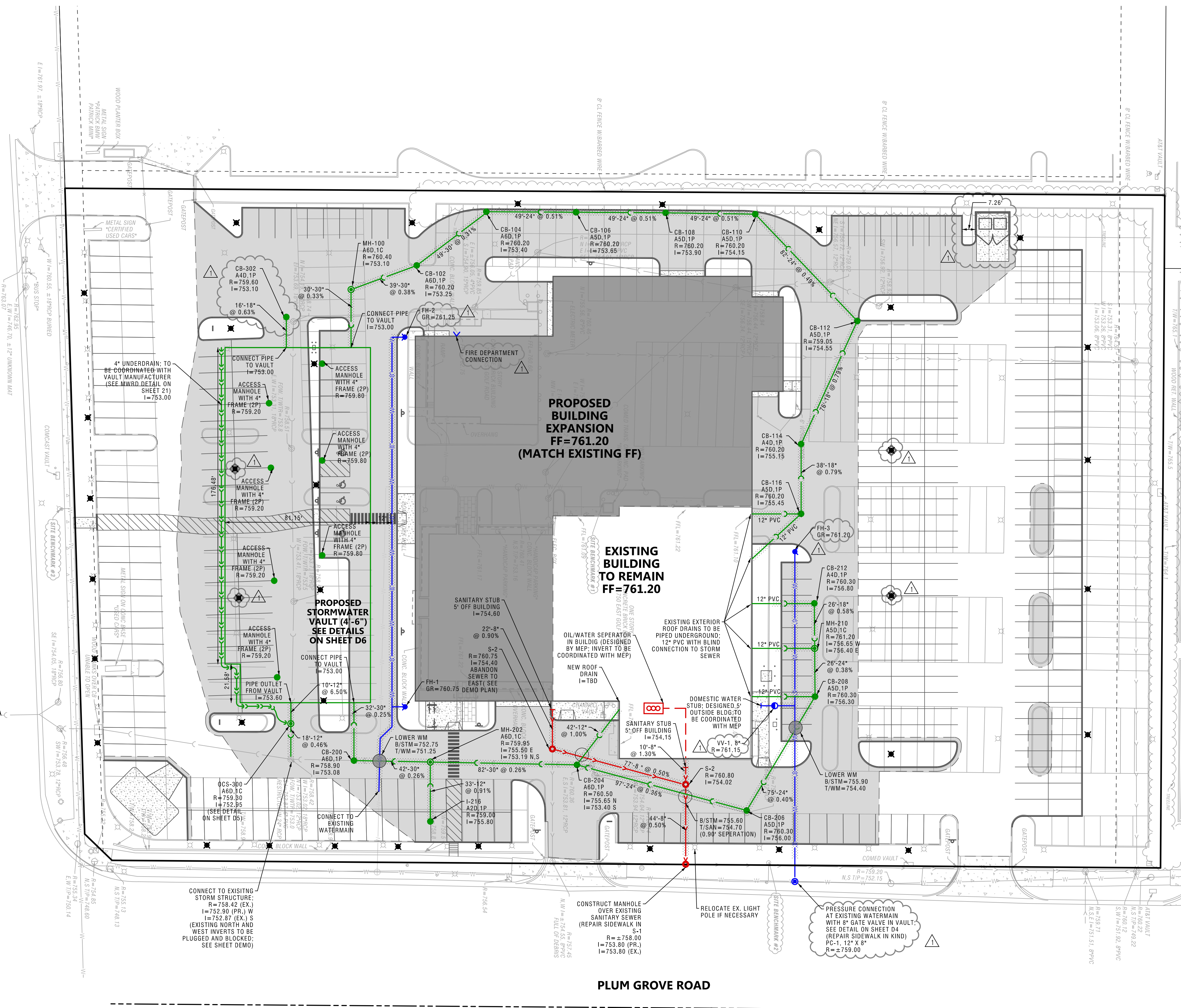
STRUCTURE ABBREVIATION
 STRUCTURE NUMBER
 M-100
 A4D,1P
 FRAME AND LID TYPE
 DIAMETER & SIZE OF STRUCTURE
 TYPE OF STRUCTURE

STORM STRUCTURE ABBREVIATIONS

I = INLET
 CB = CATCH BASIN
 M = MANHOLE
 E = FLARED END SECTION

- NOTES:**
1. ALL STORM SEWERS SHALL BE RCP CL-IV UNLESS NOTED OTHERWISE.
 2. ALL SANITARY SEWERS SHALL BE PVC SDR 26 UNLESS NOTED OTHERWISE.
 3. SEE SPECIFICATIONS FOR WATERMAIN MATERIALS, MEGALUGS AND THRUST BLOCKS ARE REQUIRED FOR ALL WATERMAIN FITTINGS. SEE REQUIRED WATERMAIN MATERIAL SPEC ON SHEET S2 (SHEET 12 OF THE PLANS).
 4. --- INDICATES TRENCH BACKFILL REQUIRED. TRENCH BACKFILL IS REQUIRED TO MIN. 5' BEHIND BACK OF CURB.
 5. FRAME AND GRATE/LID FOR STORM SEWER STRUCTURES
 1C - MANHOLE-NEENAH R-2504-C FRAME WITH TYPE "B" CLOSED LID
 1P - INLET, CATCH BASIN-NEENAH R-2504-C WITH TYPE "G" GRATE
 2P - INLET, CATCH BASIN-NEENAH R-2595-A, 4" FRAME
 6. DESIGN OF WIRING AND CIRCUITRY OF LIGHTING WILL BE BY OTHERS. (INCLUDES SITE LIGHT POLES; SHOWN FOR PLANNING PURPOSES ONLY)
 7. ALL WATERMAIN SHUTDOWNS SHALL BE COORDINATED WITH THE VILLAGE OF SCHAUMBURG ENGINEERING AND PUBLIC WORKS DEPARTMENT (EPW). EPW WILL INVESTIGATE SHUTDOWNS PRIOR TO SCHEDULED CONSTRUCTION TO ENSURE THAT VALVES ARE FUNCTIONING PROPERLY. CONTRACTOR SHALL CONTACT EPW DISPATCH LINE (847-923-6612) A MINIMUM OF SEVEN WORKING DAYS PRIOR TO SHUTDOWN TO SCHEDULE A PRE-SHUTDOWN INVESTIGATION. CONTRACTOR SHALL CONTACT EPW A MINIMUM OF 48 HOURS PRIOR TO SHUTDOWN TO CONFIRM SCHEDULE AND DETAILS AND SHUTDOWN.
 8. CONTRACTOR TO COORDINATE FINAL UTILITY (SANITARY, STORM, WATER) SERVICE LOCATIONS, SIZES, AND INVERTS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 9. EXISTING DRY UTILITIES ARE SHOWN FOR REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF EXISTING DRY UTILITIES AND TO COORDINATE THE REMOVAL OR ABANDONMENT OF ALL DRY UTILITIES WITH THEIR CORRESPONDING OWNERS.
 10. MINIMUM HORIZONTAL DISTANCE BETWEEN WATERMAIN AND SEWERS SHALL BE 10 FEET. MINIMUM VERTICAL SEPARATION SHALL BE 18 INCHES. SEPARATION IS MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE. CONTRACTOR TO FIELD VERIFY PRIOR TO INSTALLATION.
 11. LIGHT POLES OVER STORMWATER VAULT TO BE COORDINATED WITH STORM TRAP, OWNER, AND ELECTRICIAN.
 12. ALL PROPOSED STORM SEWER TO BE WATERMAIN QUALITY WITH GASKETED JOINTS CONFORMING TO ASTM C-443.

- LEGEND**
- STORM SEWER (DESIGNED FOR 100 YEAR EVENT)
 - 4" UNDERDRAIN (TO BE COORDINATED WITH VAULT MANUFACTURER)
 - WATER MAIN
 - SANITARY SEWER
 - STORM STRUCTURE
 - VALVE VAULT
 - FIRE HYDRANT
 - PRESSURE CONNECTION
 - SANITARY MANHOLE
 - LIGHTPOLE (DESIGNED BY OTHERS; SHOWN FOR REFERENCE ONLY)
 - UTILITY CROSSINGS
 - UTILITY CONFLICT



GOLF ROAD

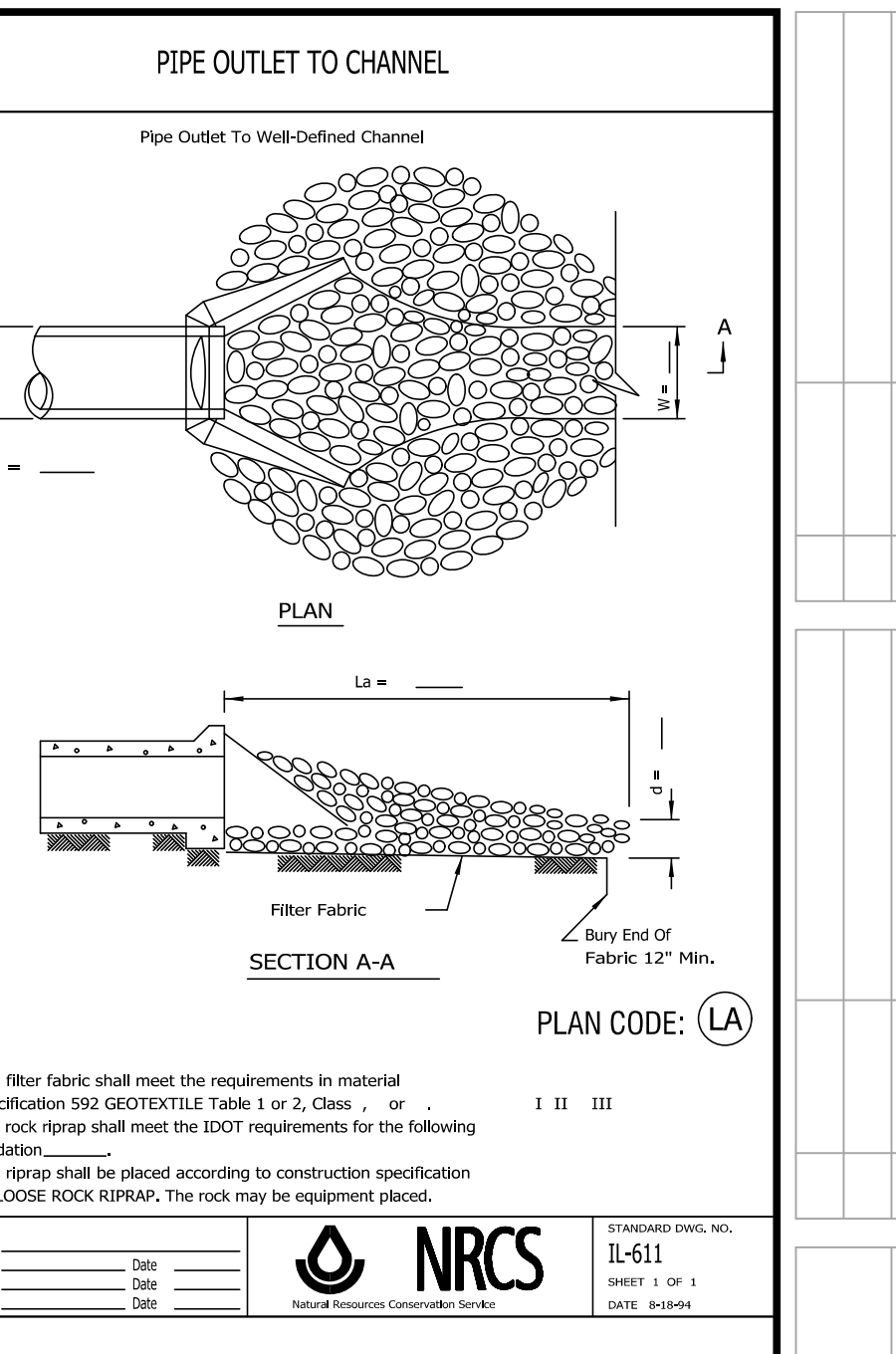
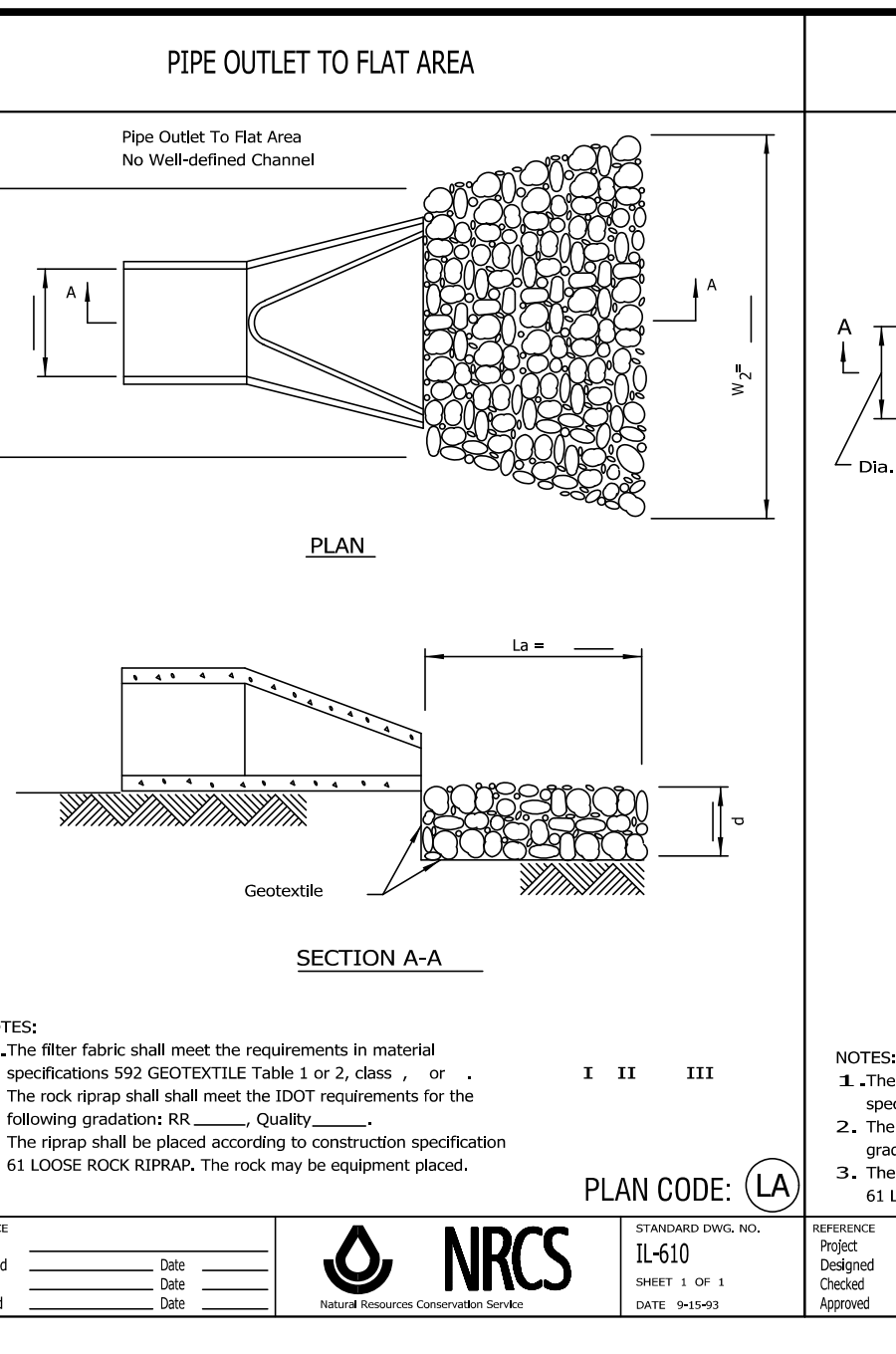
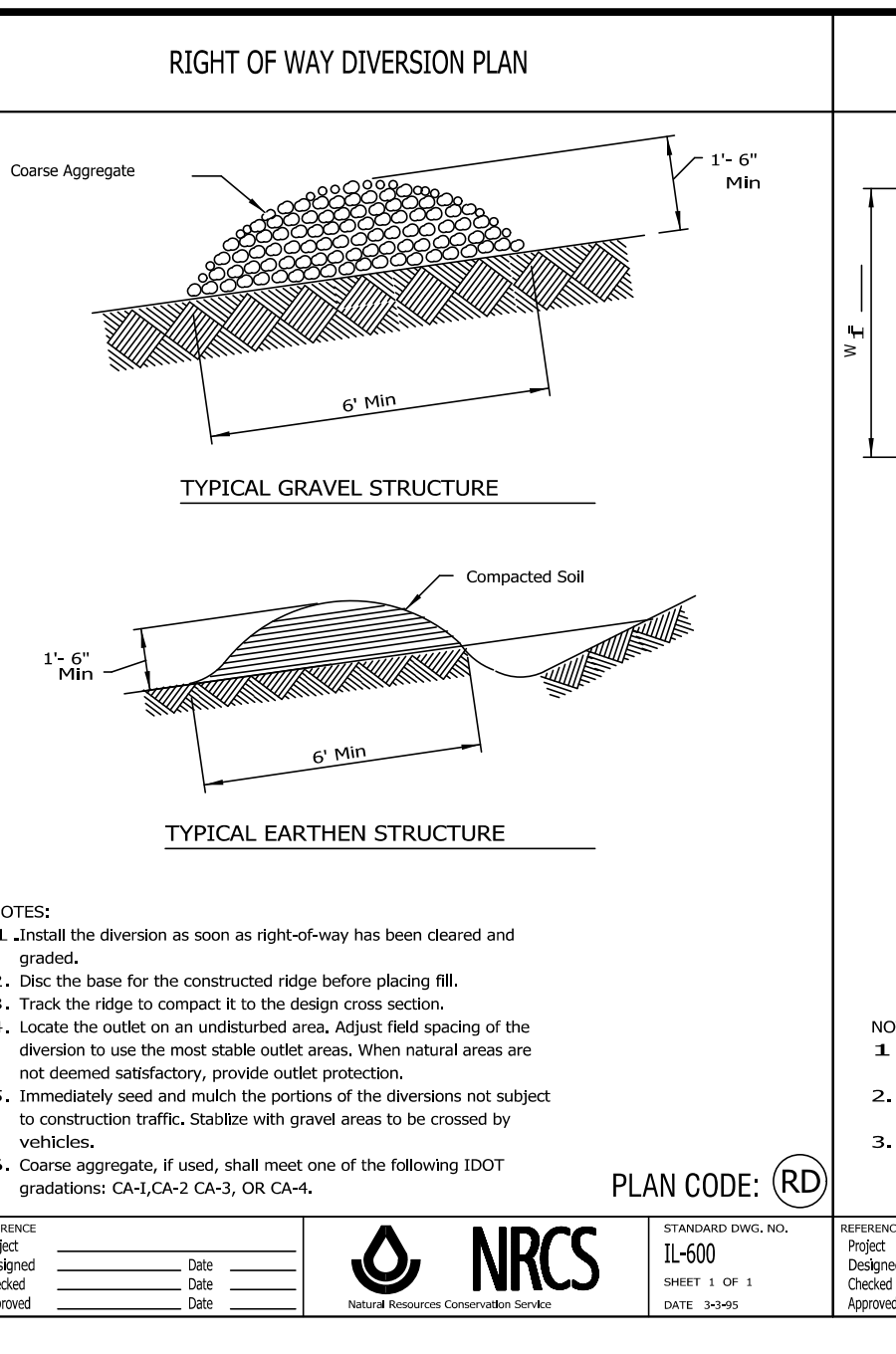
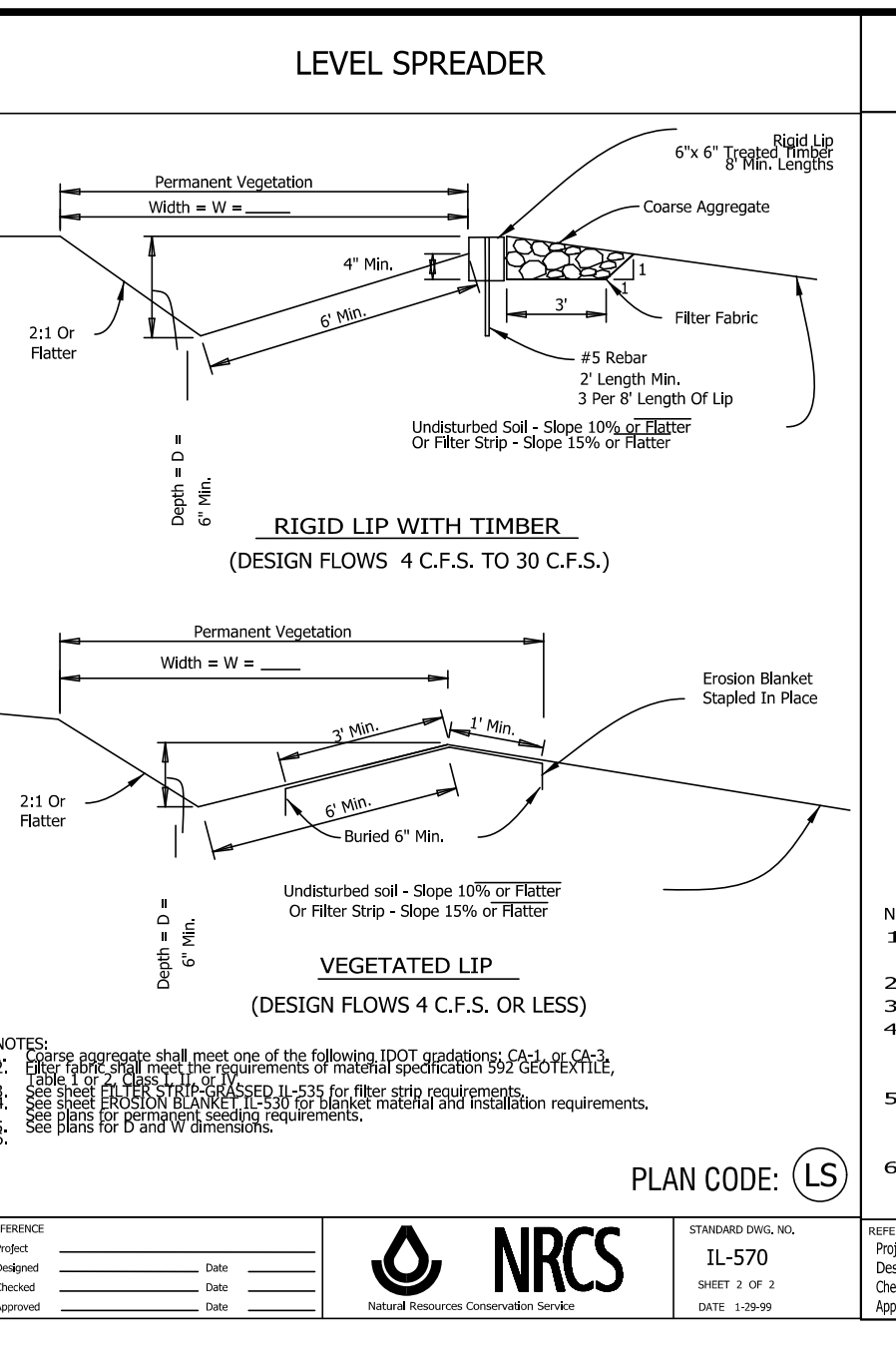
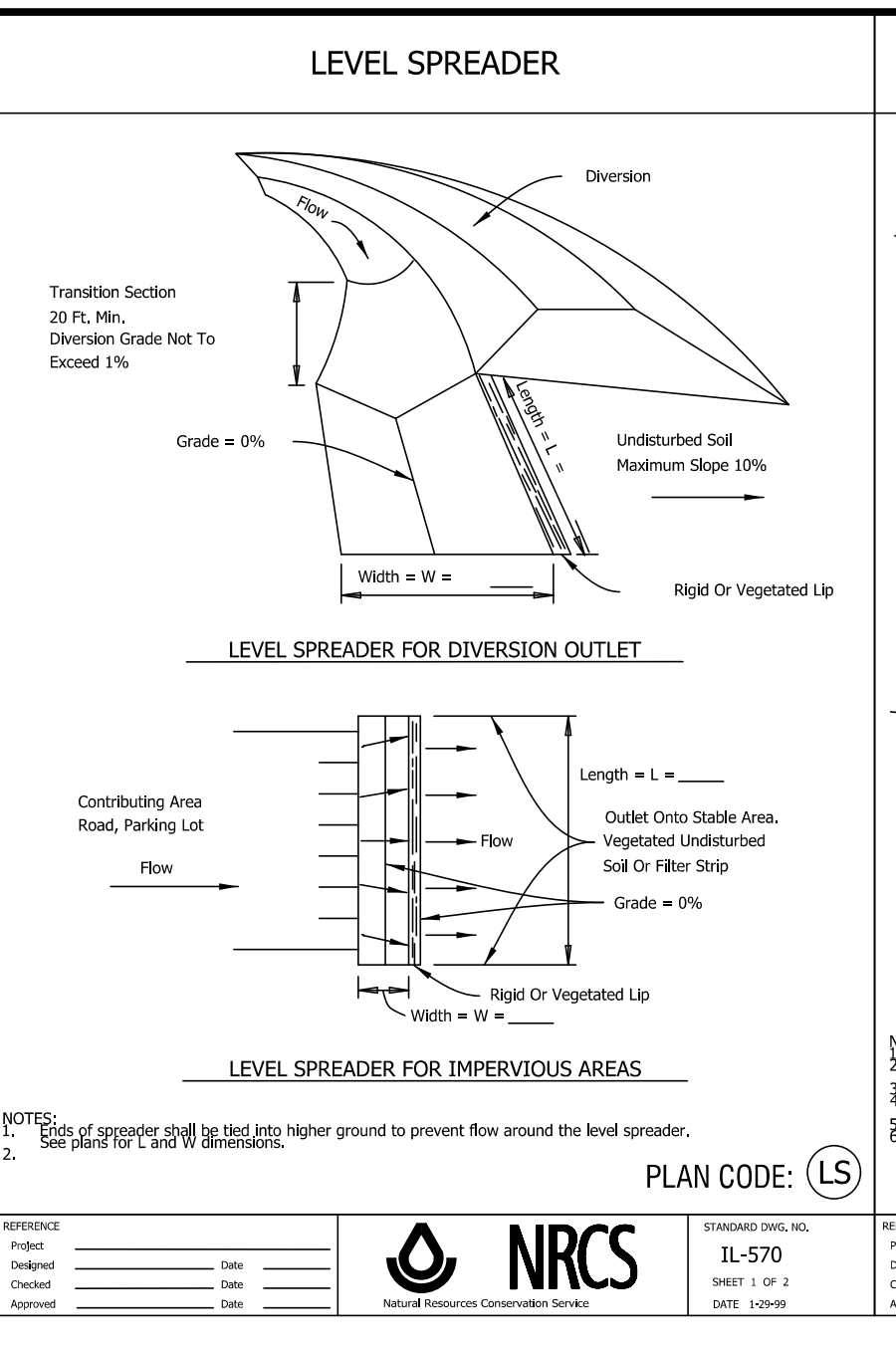
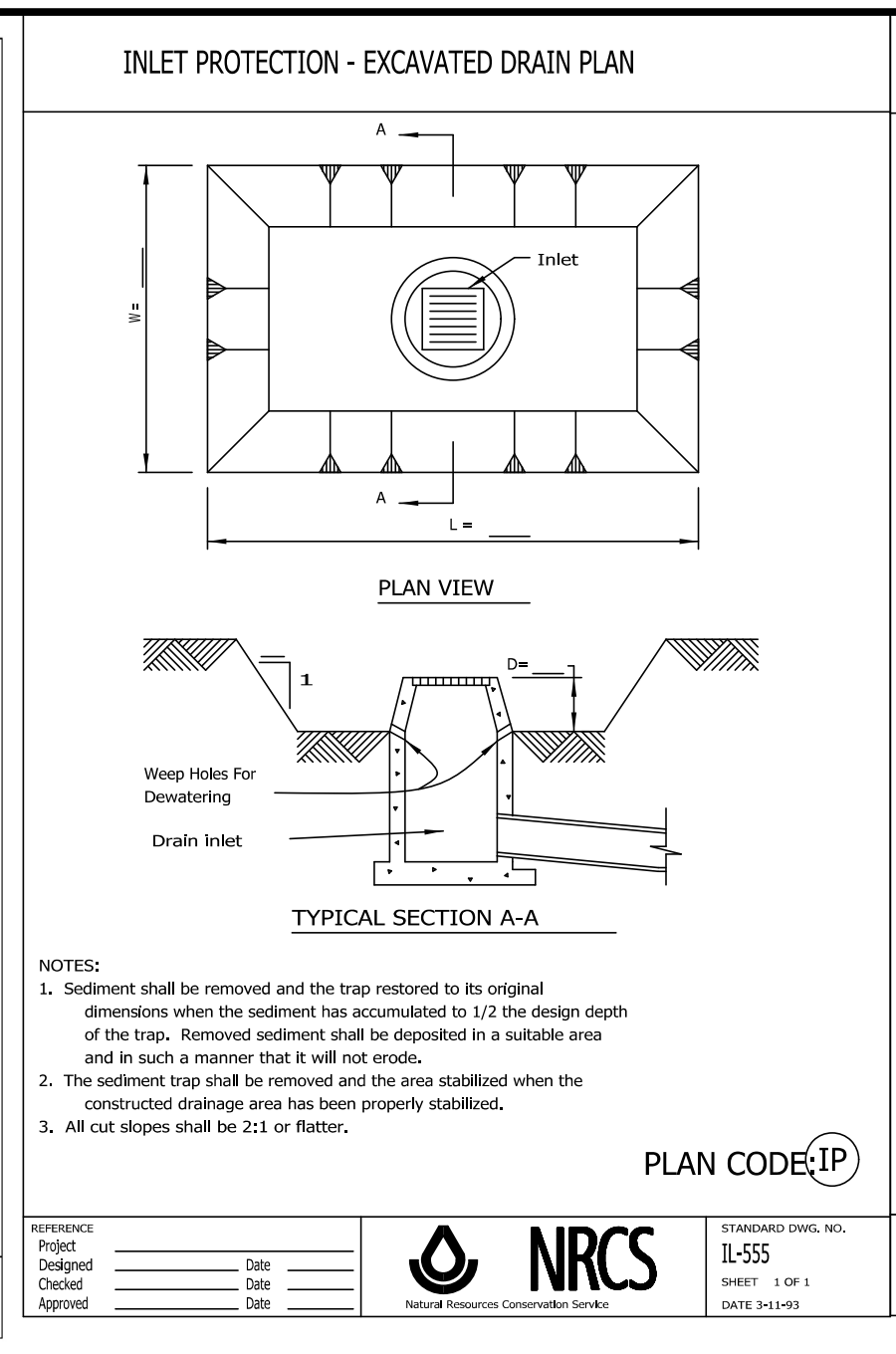
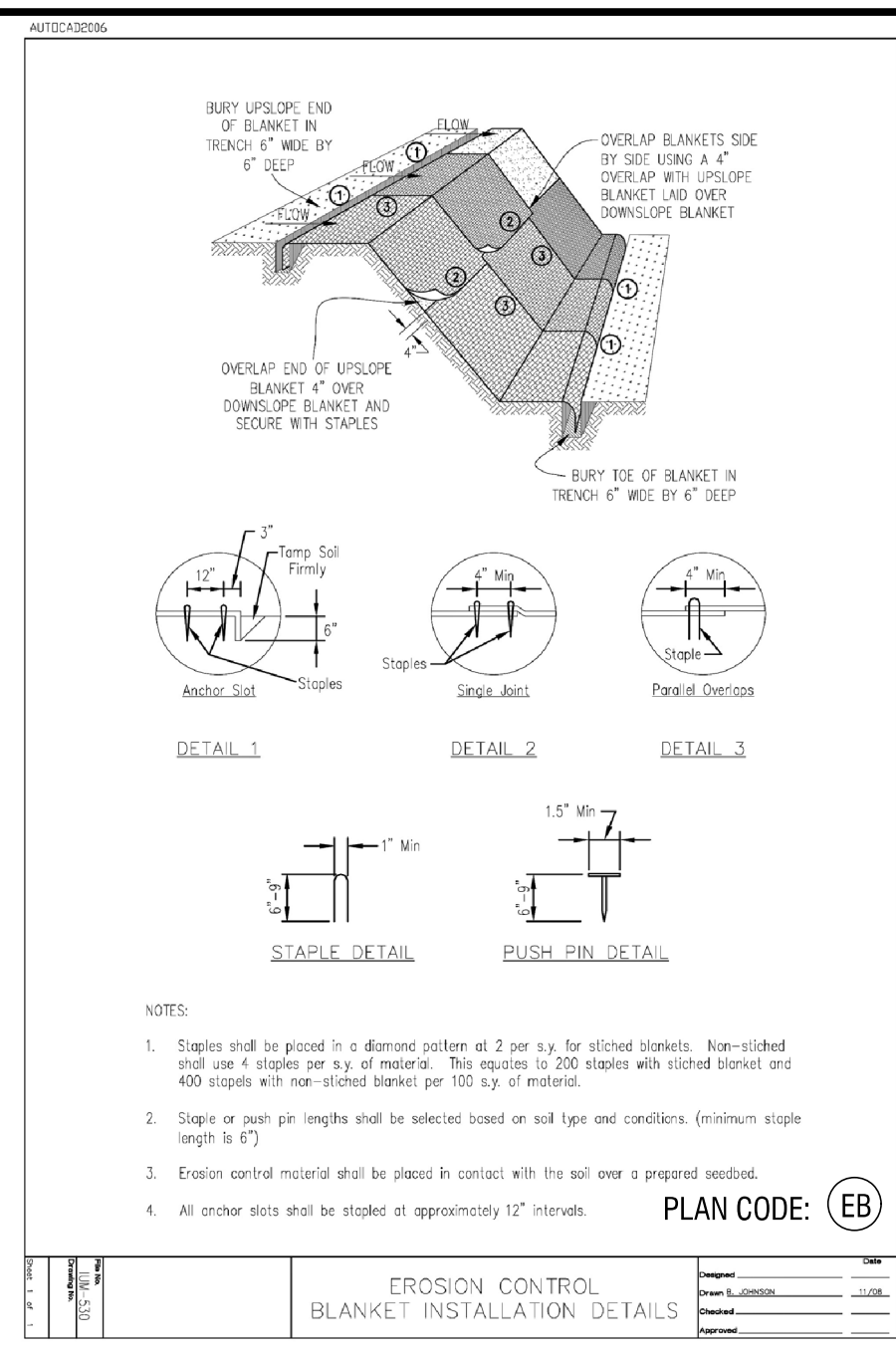
PLUM GROVE ROAD

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UTILITY PLAN
SCHAUMBURG ROHRMAN KIA
 SCHAUMBURG, ILLINOIS

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FILENAME: 13379UT01
DATE: 10/18/24
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SHEET UT1
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PROJECT	DATE	DATE	DATE
DESIGNED	DATE	DATE	DATE
CHECKED	DATE	DATE	DATE
APPROVED	DATE	DATE	DATE

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IL-555	11-14-09		
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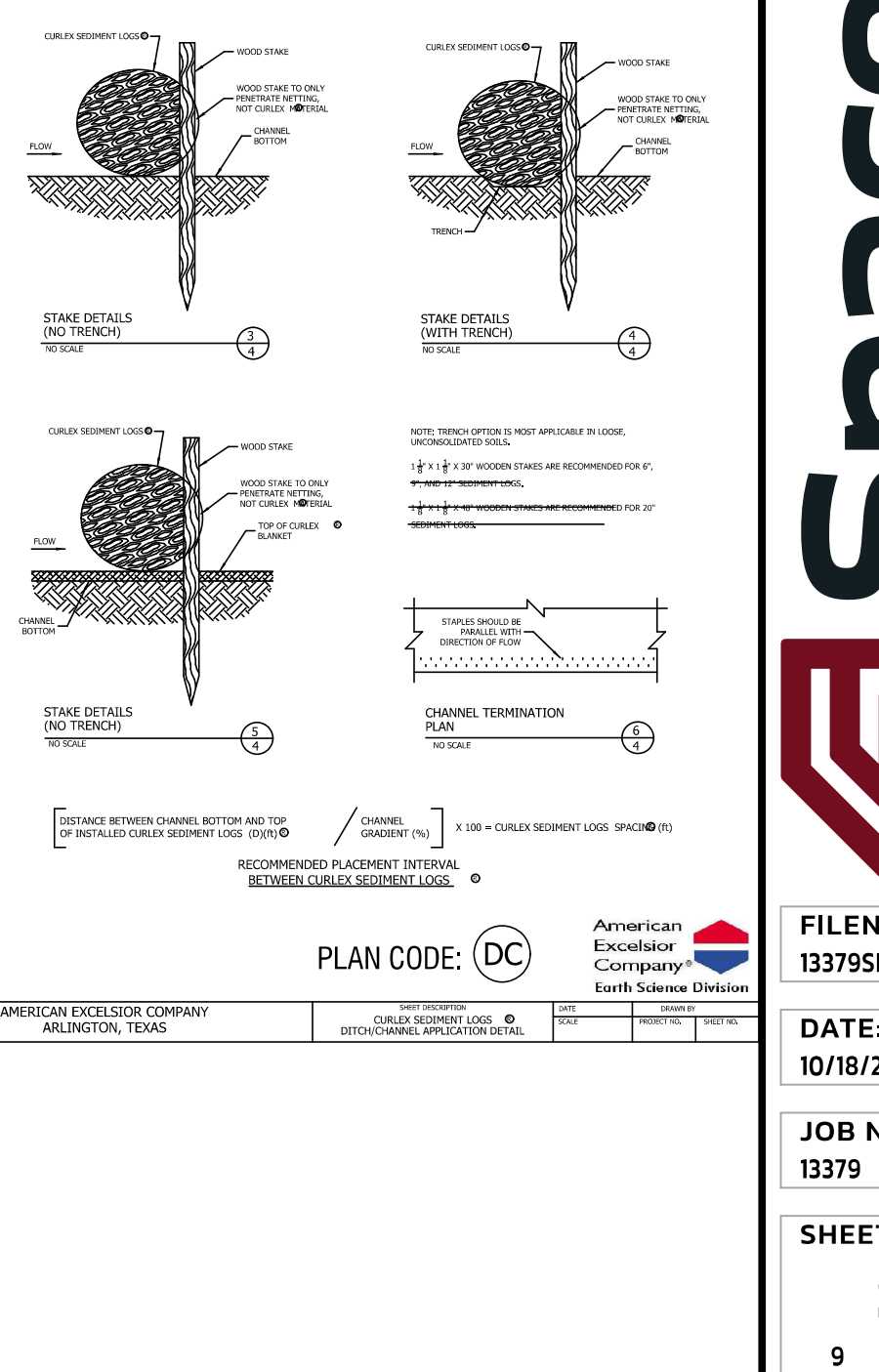
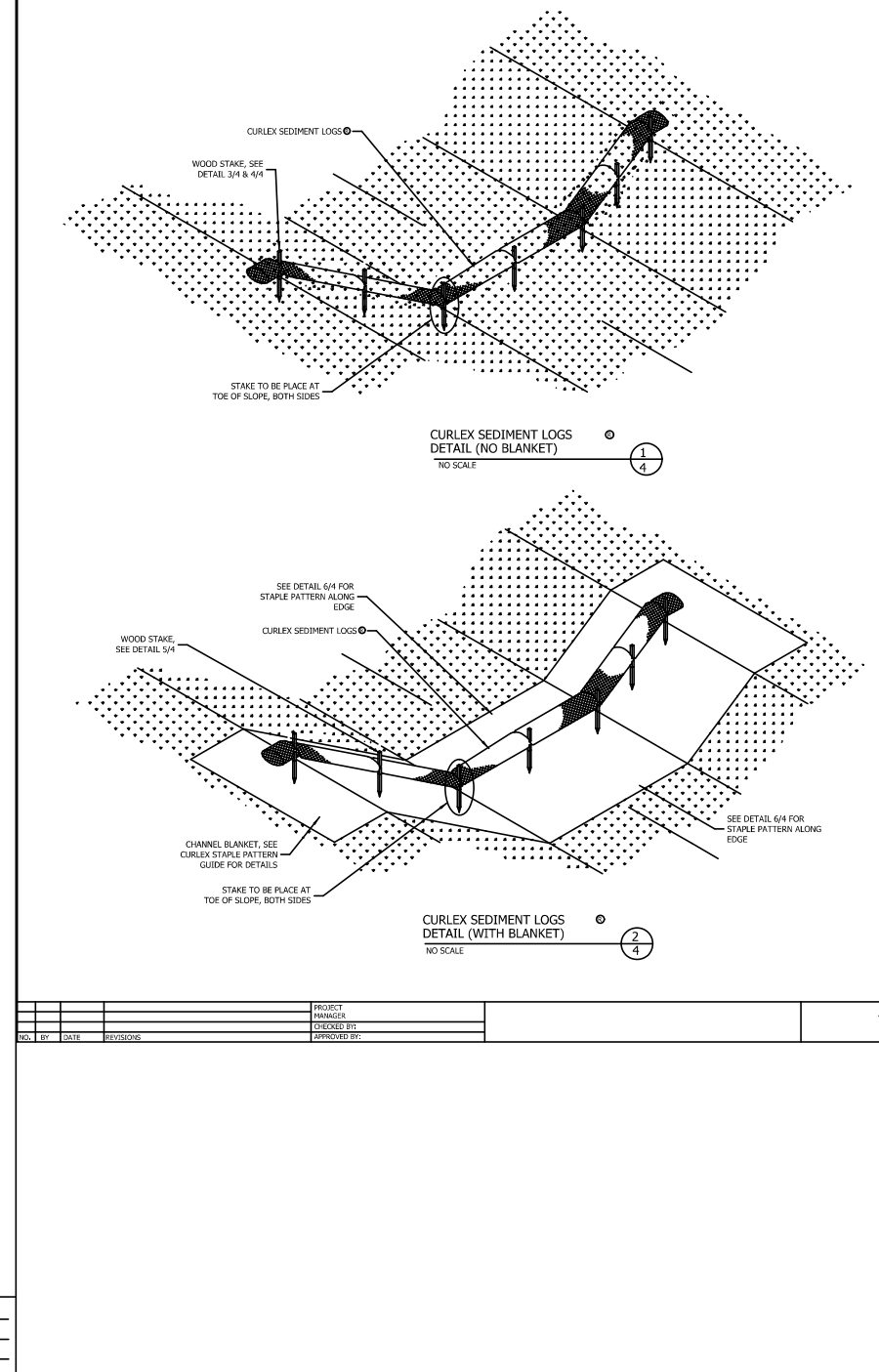
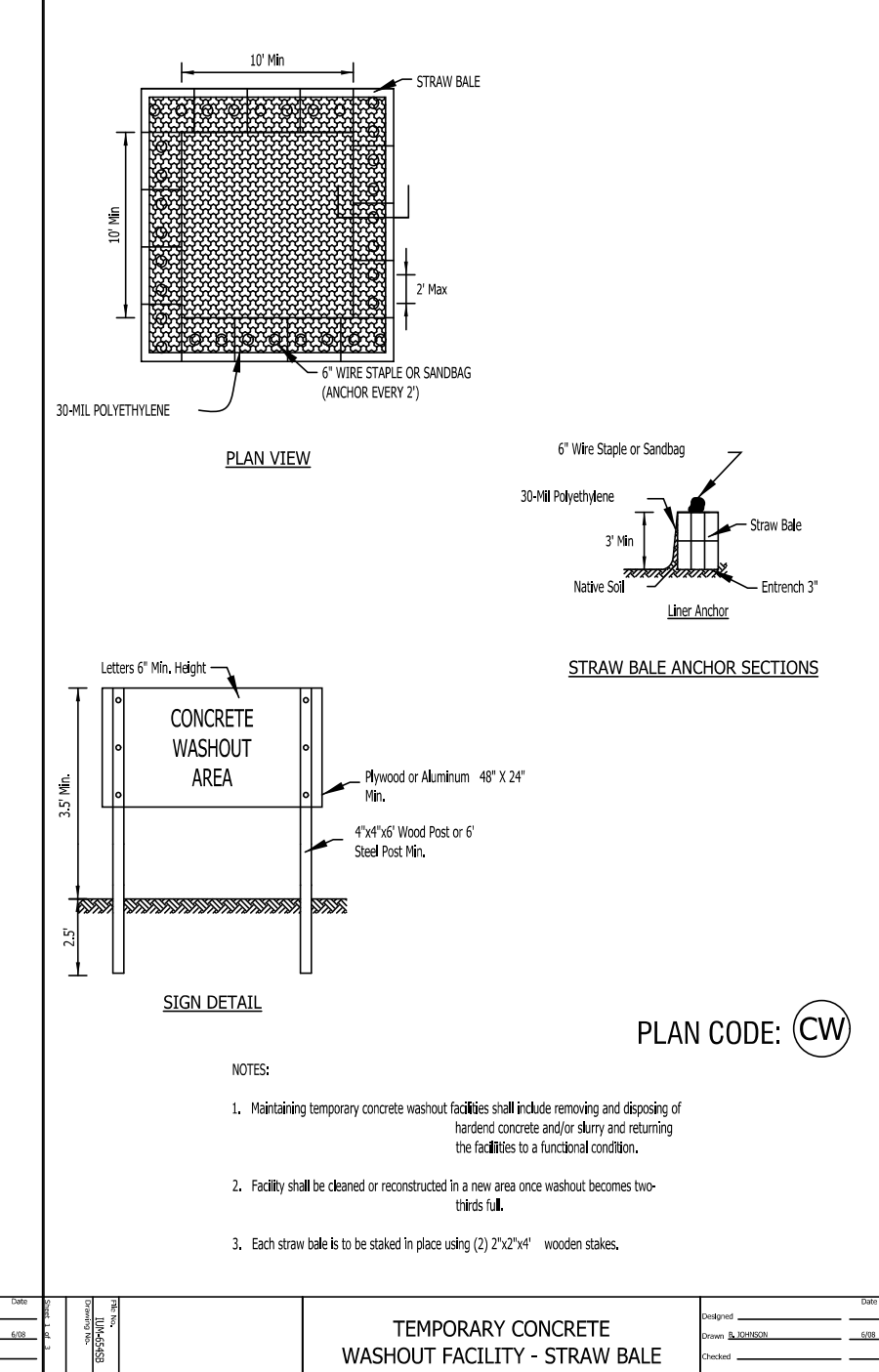
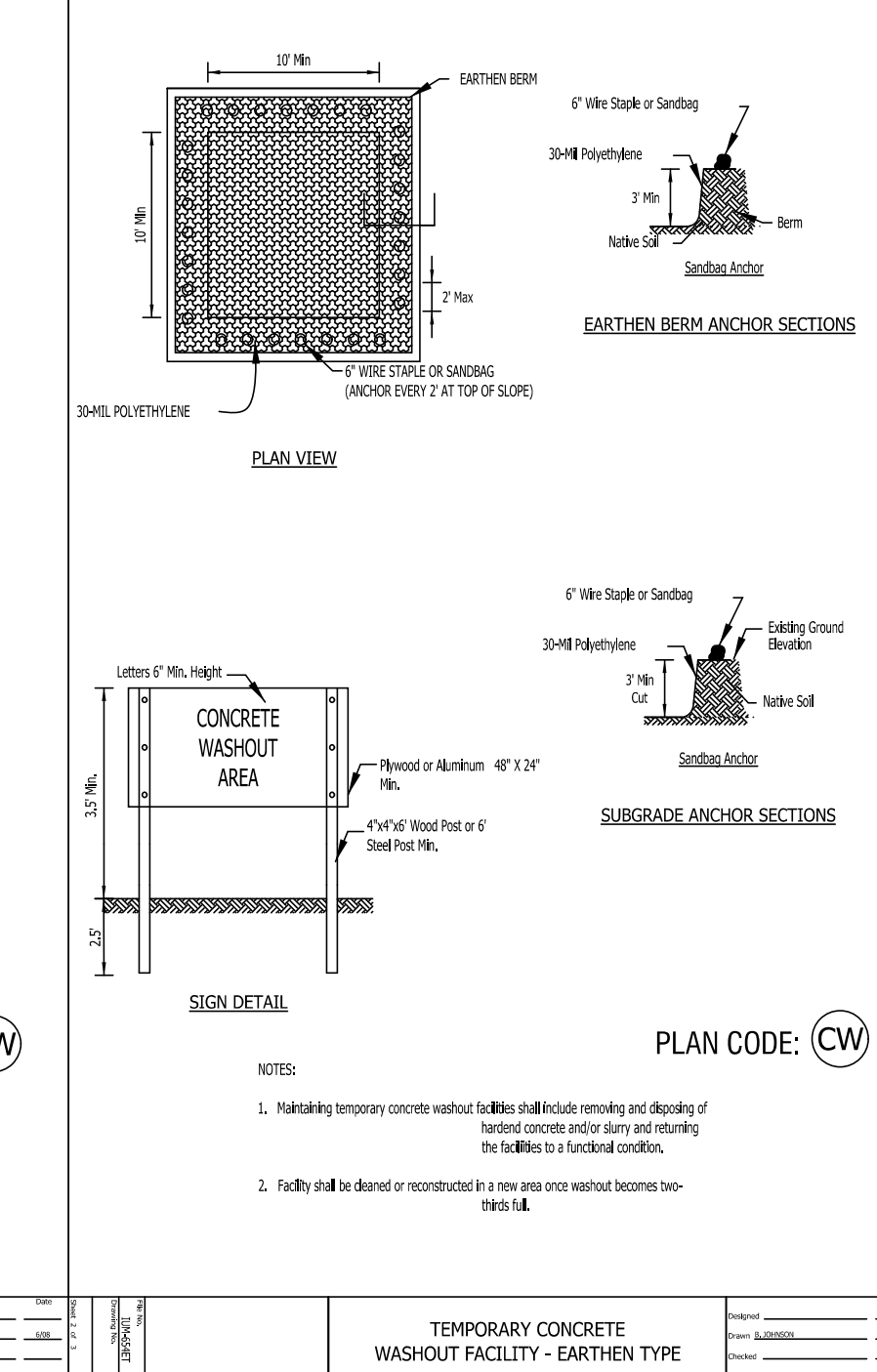
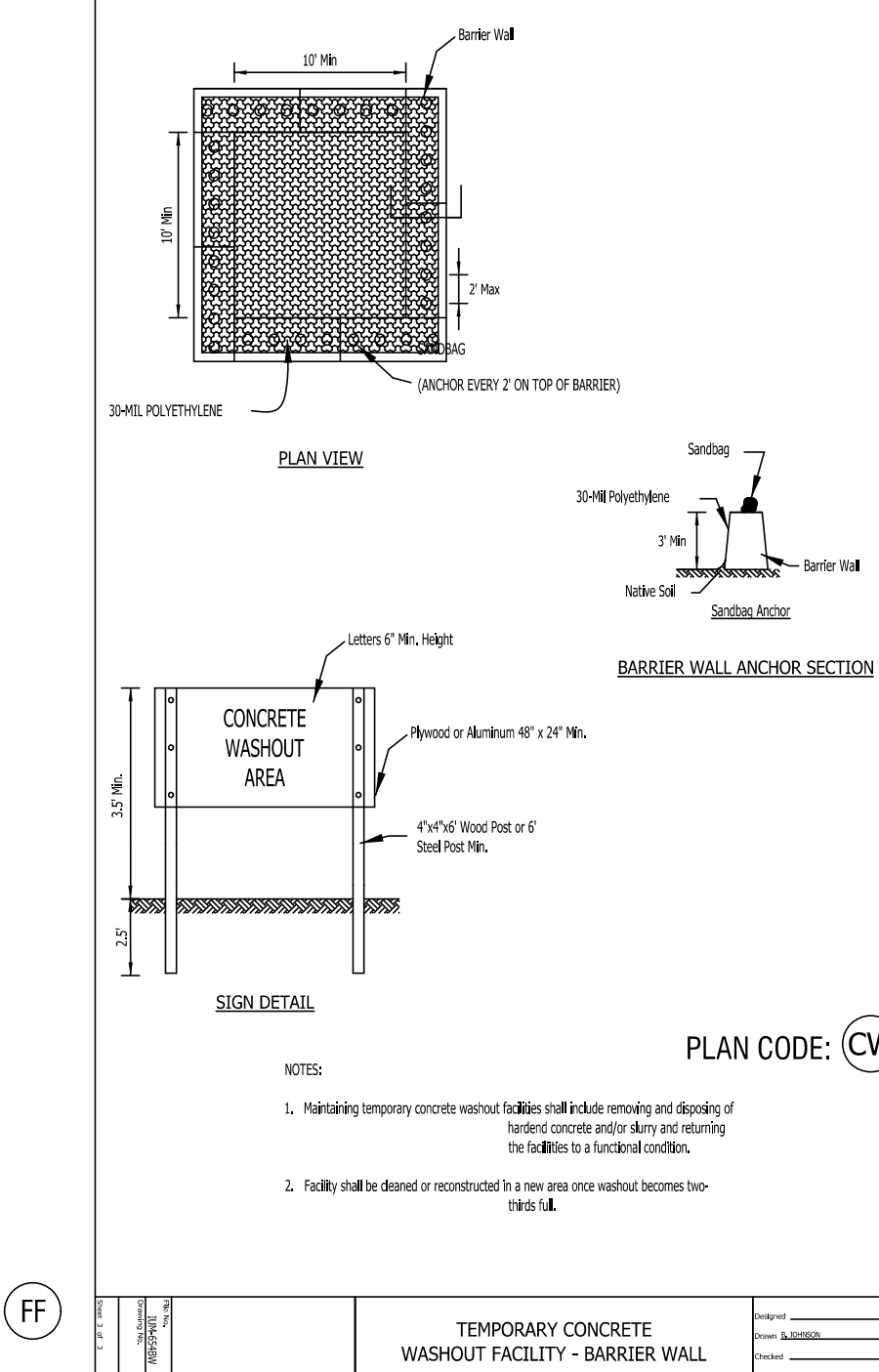
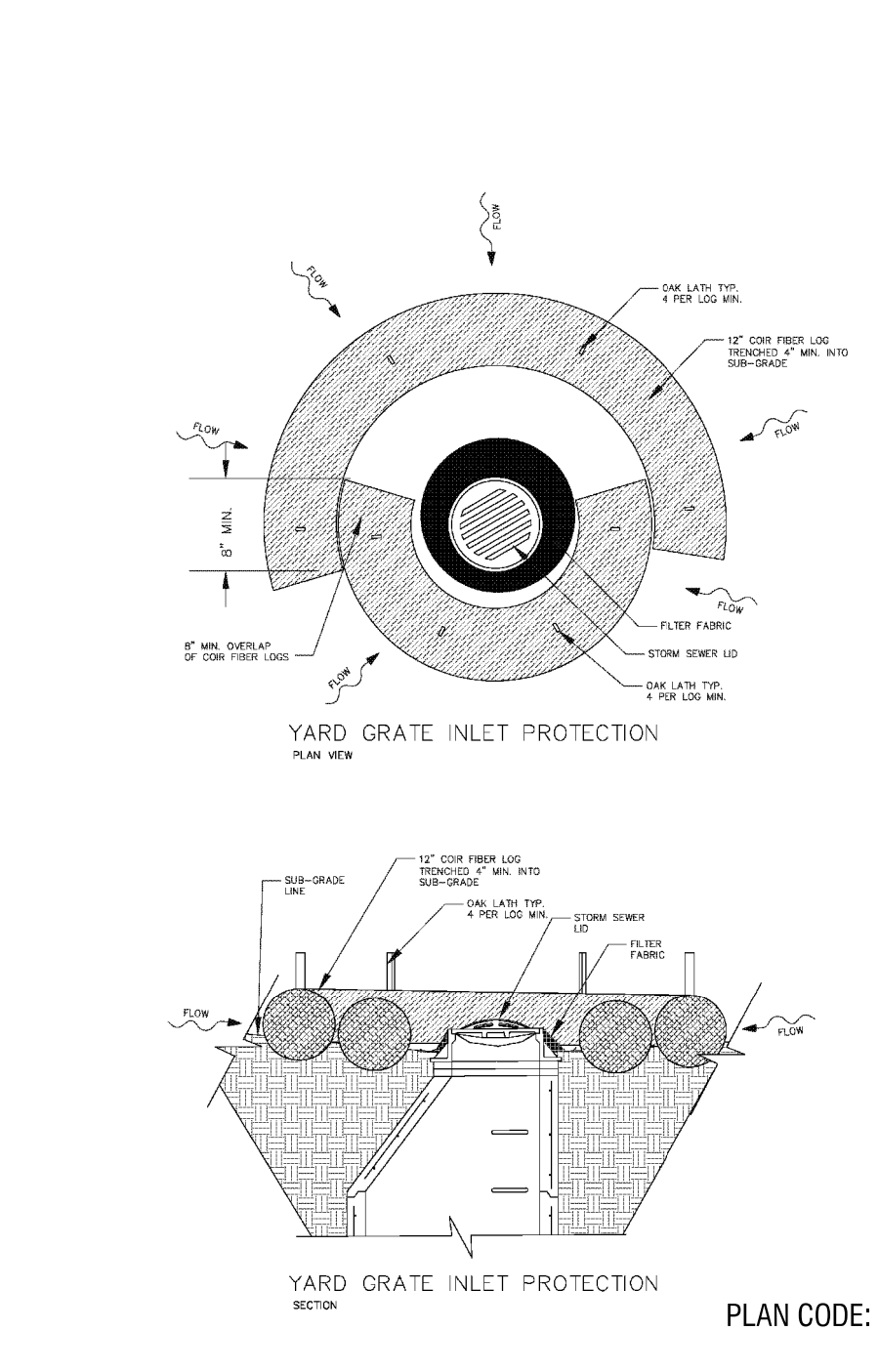
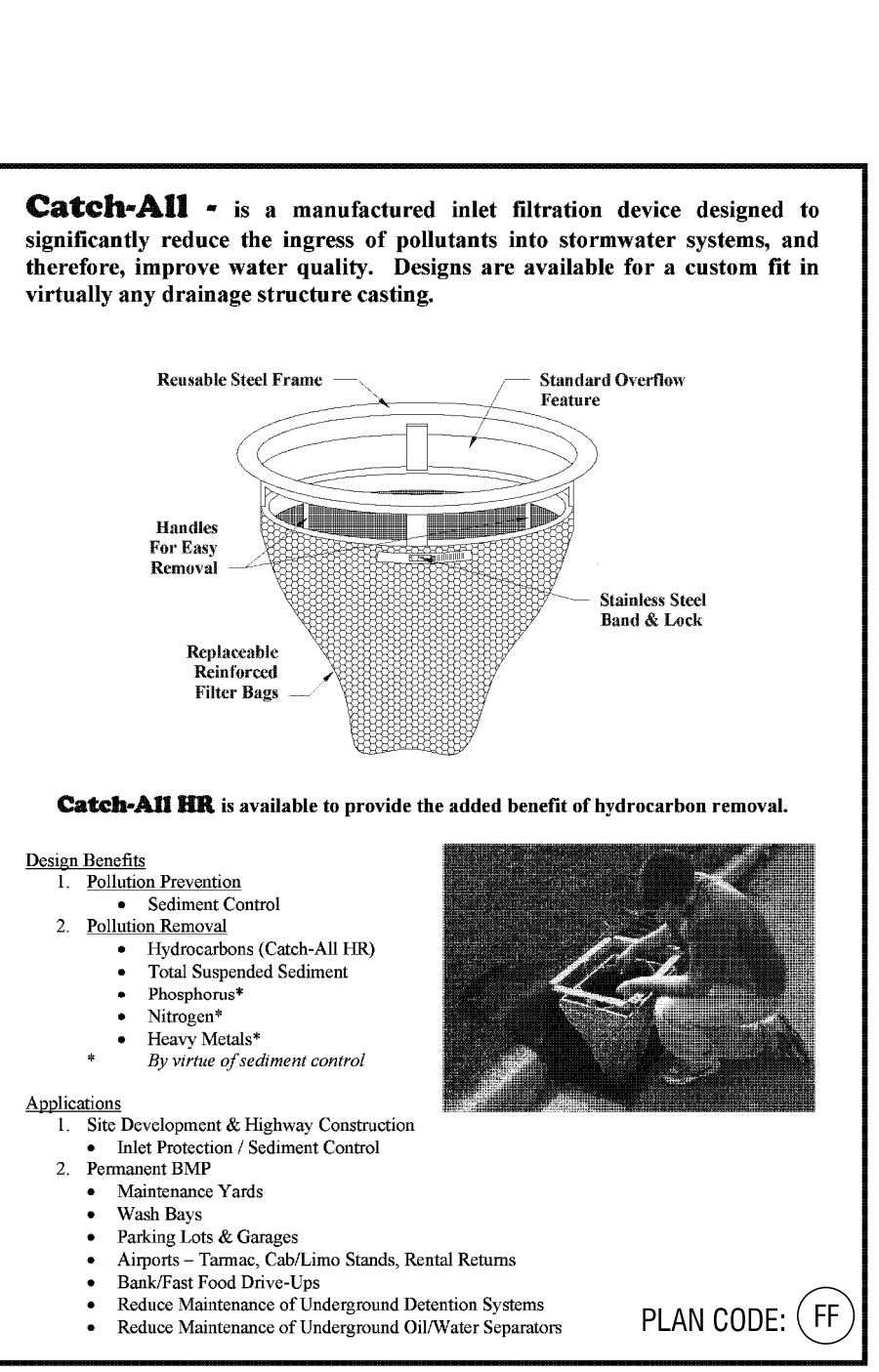
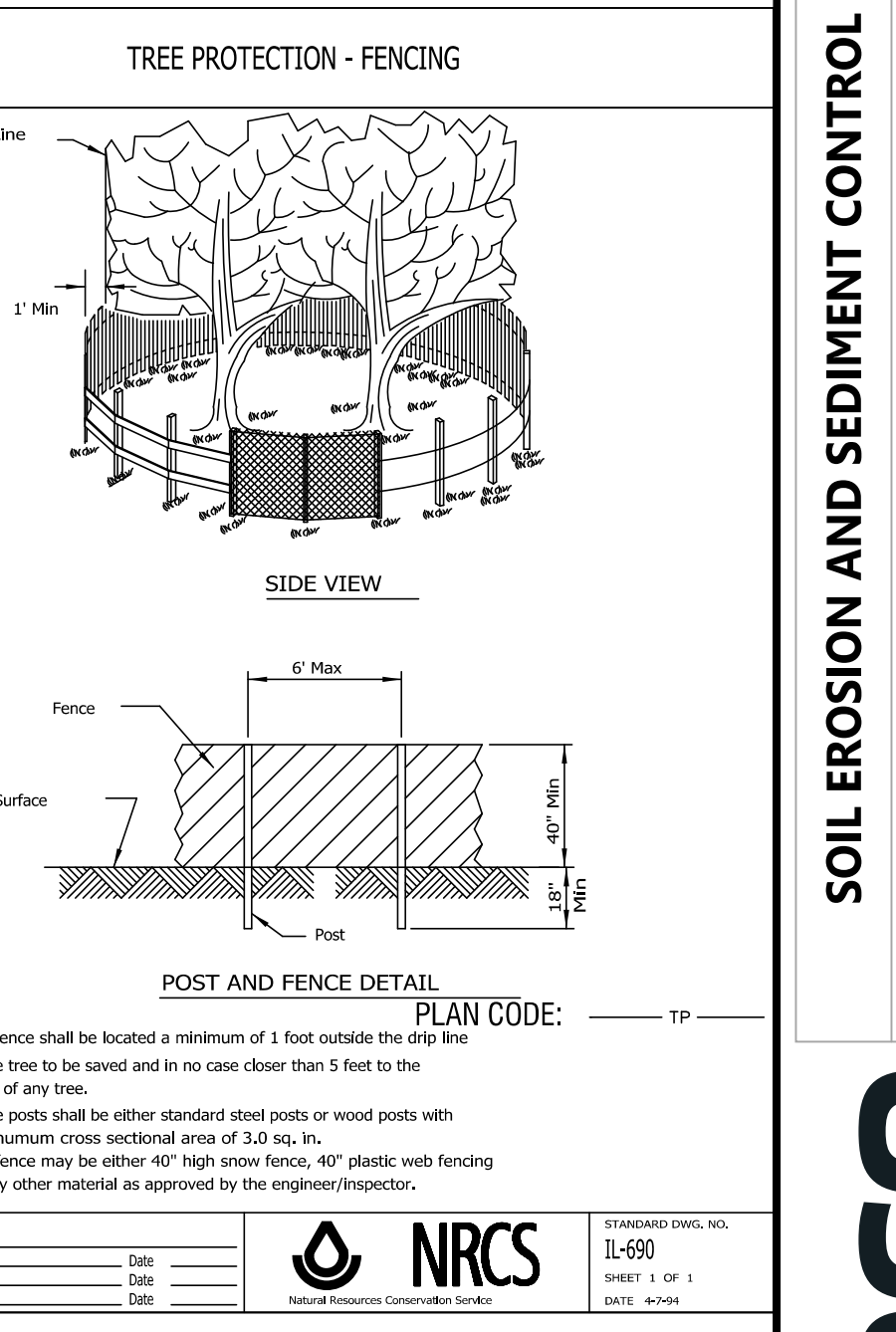
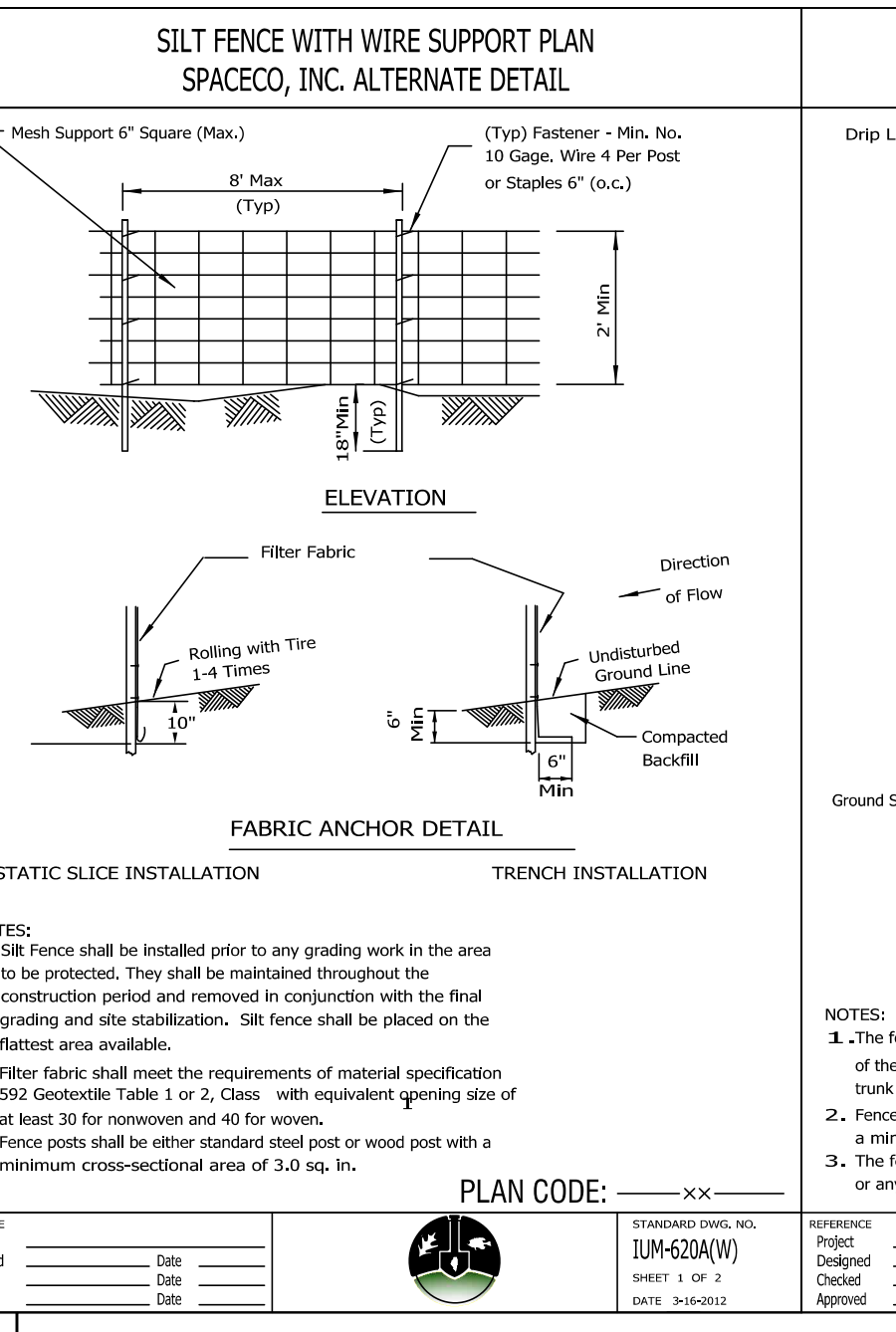
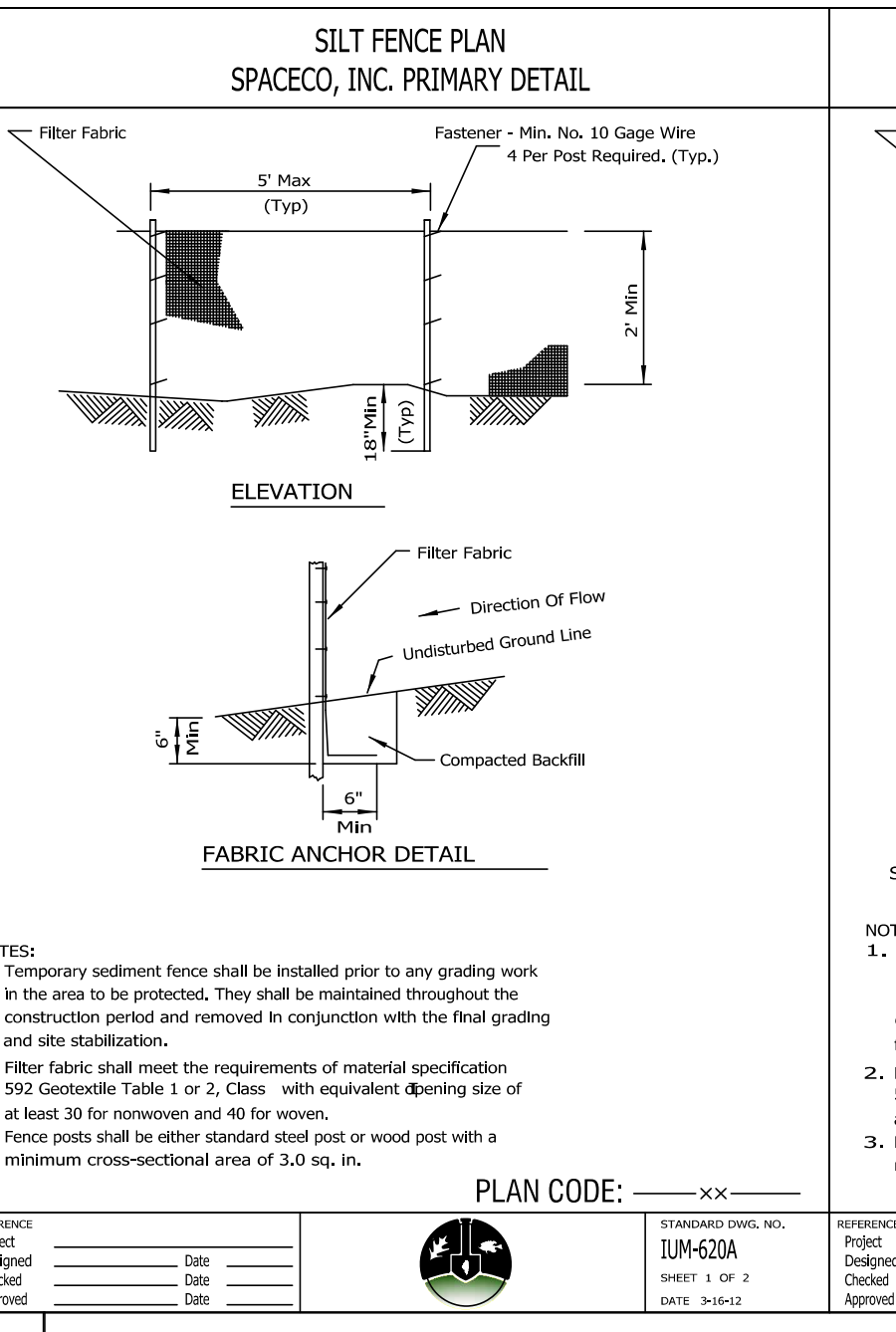
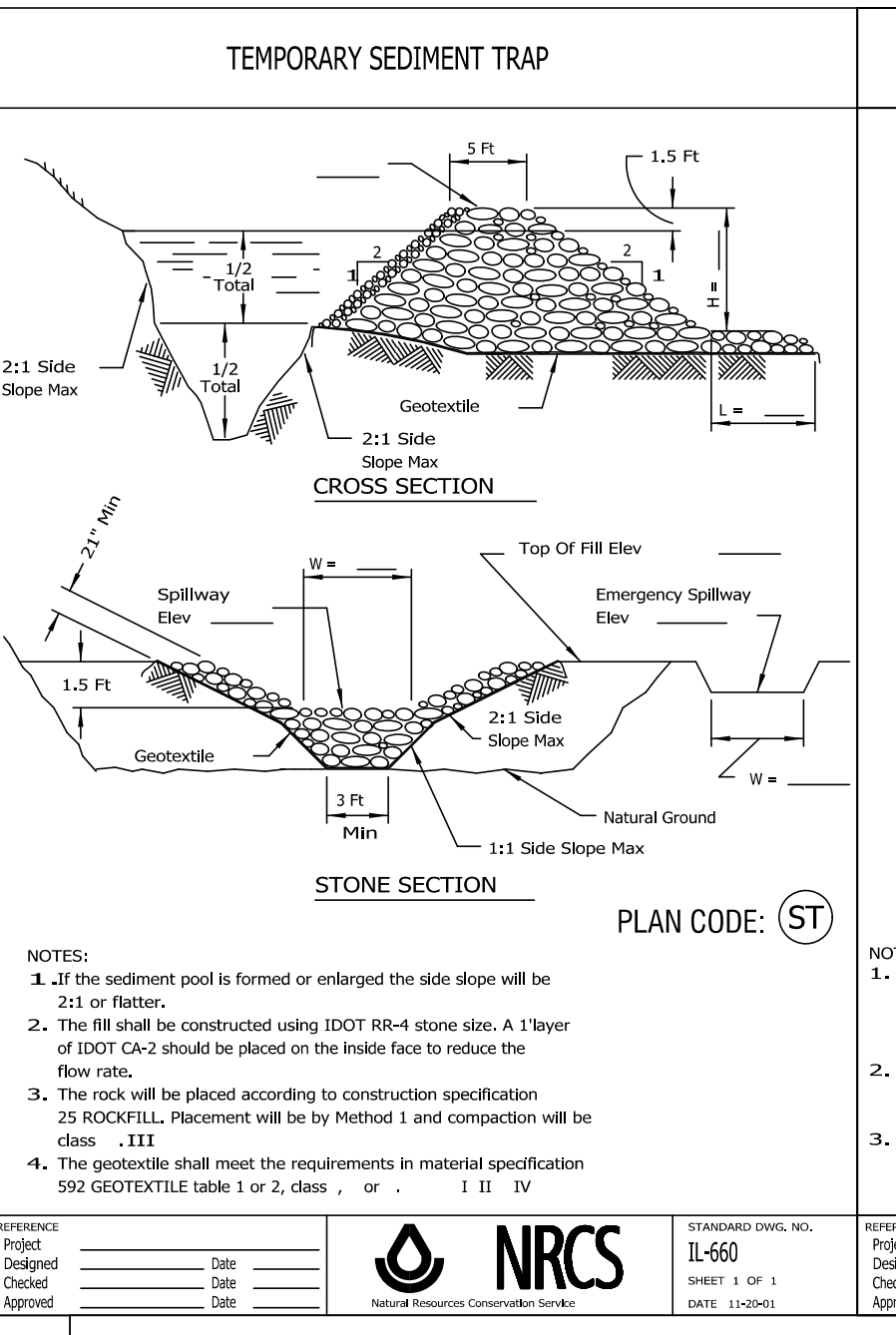
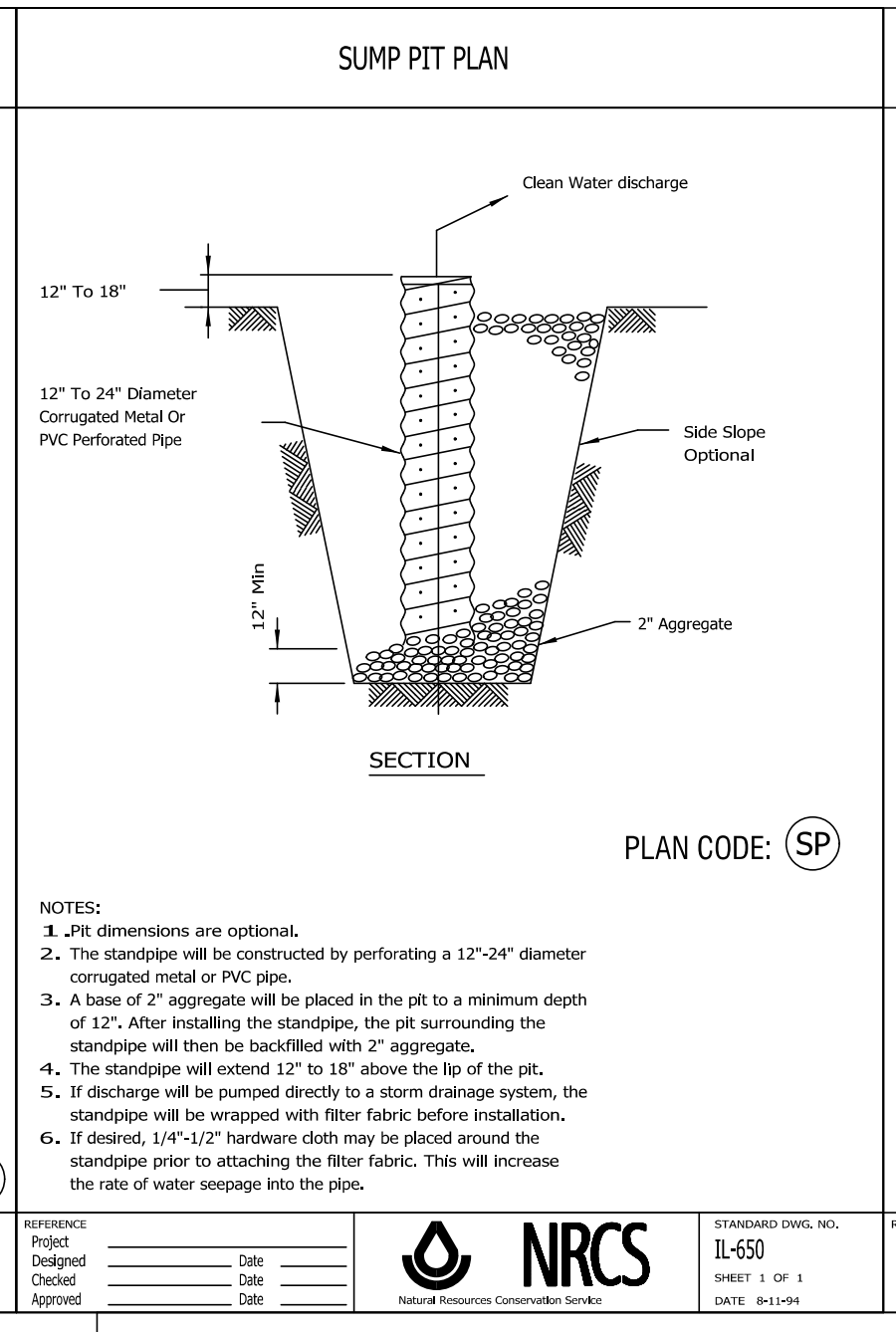
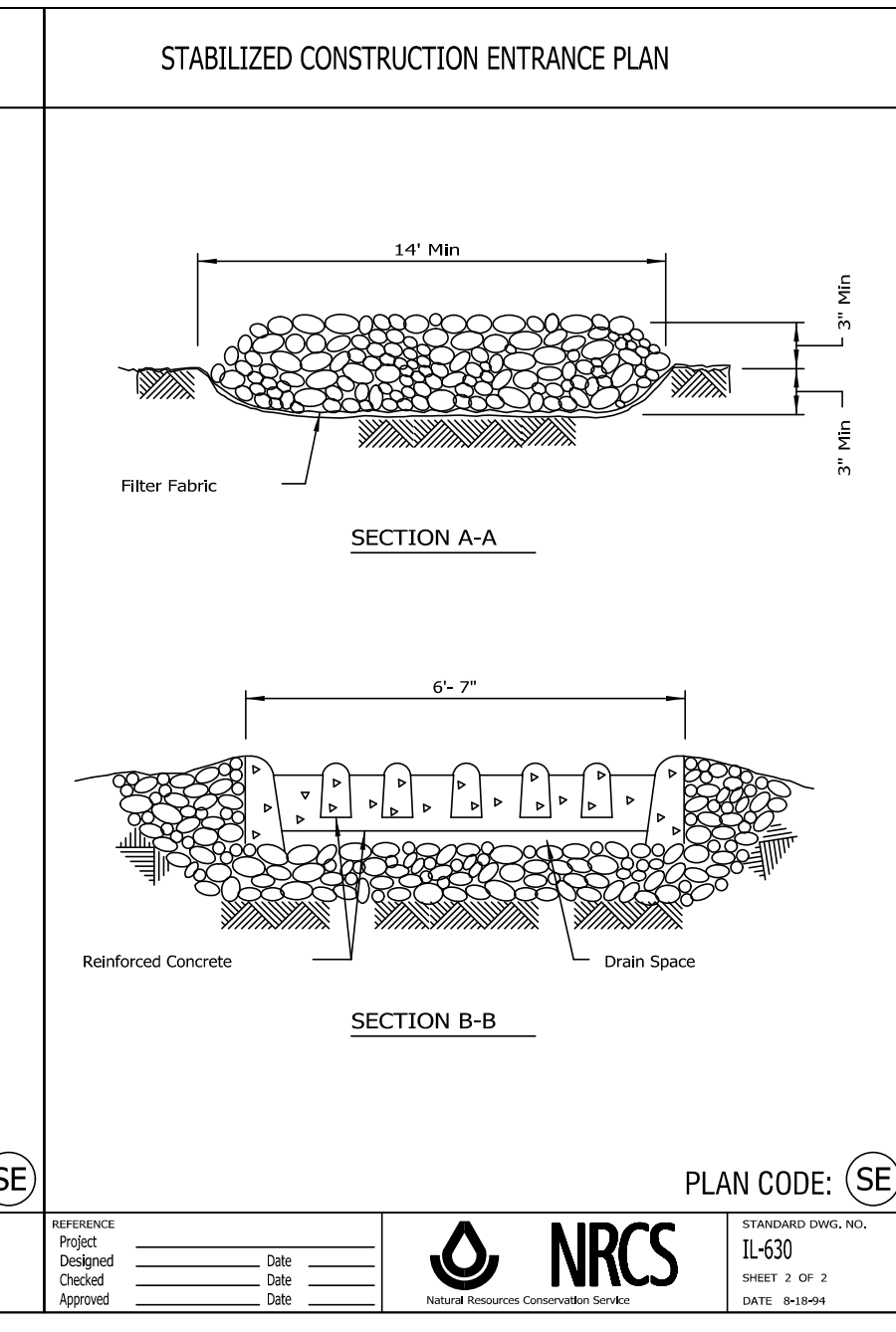
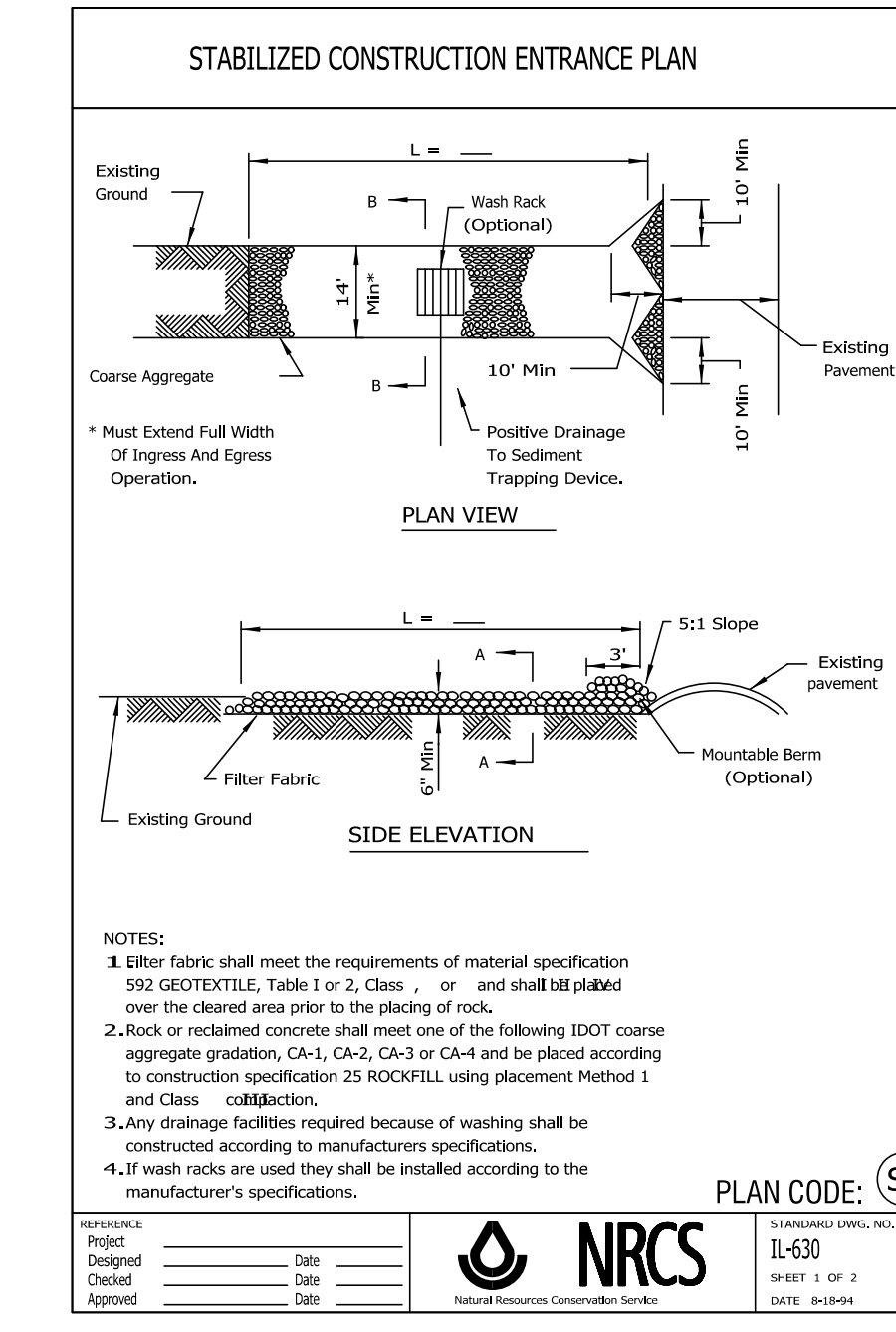
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SHEET 1 OF 2			

STANDARD DWG. NO.	DATE	DATE	DATE
IL-570	11-17-09		
SHEET 2 OF 2			

STANDARD DWG. NO.	DATE	DATE	DATE
IL-600	11-17-09		
SHEET 1 OF 1			

STANDARD DWG. NO.	DATE	DATE	DATE
IL-610	11-17-09		
SHEET 1 OF 1			

STANDARD DWG. NO.	DATE	DATE	DATE
IL-611	11-17-09		
SHEET 1 OF 1			



NO.	DATE	REMARKS

NO.	DATE	REMARKS

PROJECT	DATE	DATE	DATE
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APPROVED	DATE	DATE	DATE

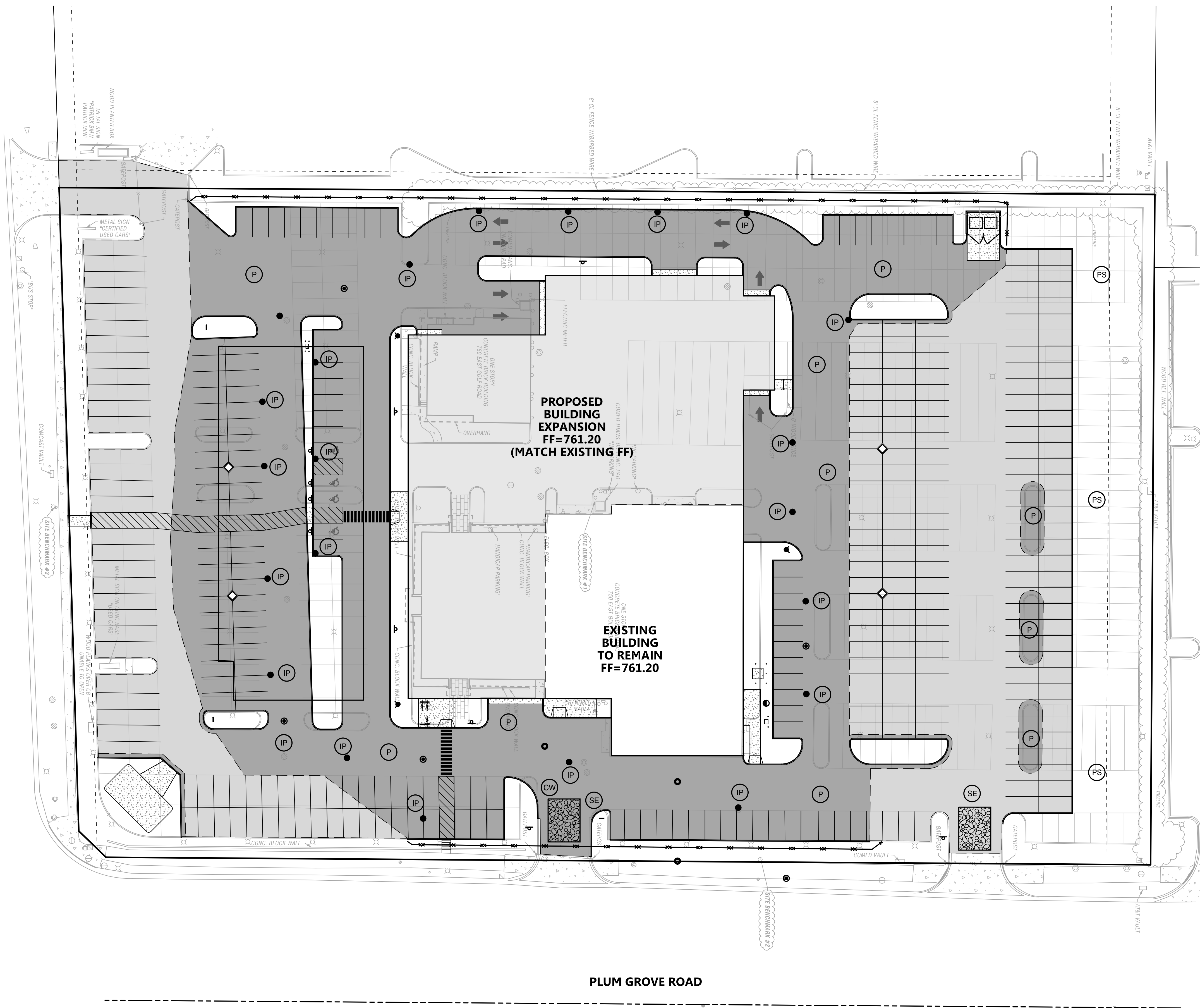
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SOIL EROSION AND SEDIMENT CONTROL PLAN - 2
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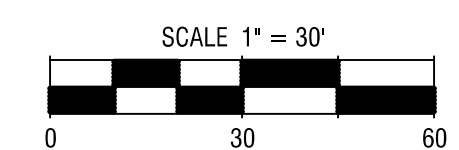
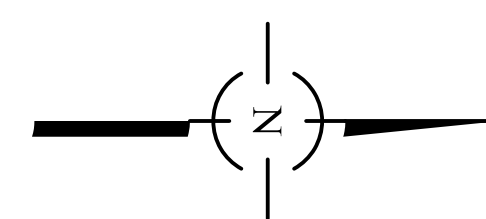
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AMERICAN EXHIBITOR COMPANY
 AMBLINGTON, TEXAS
 CHAIRS, BENCHES, TABLES, AND OTHER EXHIBIT EQUIPMENT

GOLF ROAD



PLUM GROVE ROAD



SYMBOL LEGEND

- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- INLET PROTECTION
- PAVING
- PERMANENT SEEDING
- LINED APRON
- CONCRETE PAVEMENT
- CONCRETE WASHOUT

SOIL EROSION AND SEDIMENT CONTROL PLAN - 3

SCHAUMBURG ROHRMAN KIA
SCHAUMBURG, ILLINOIS



FILENAME:	133795E3
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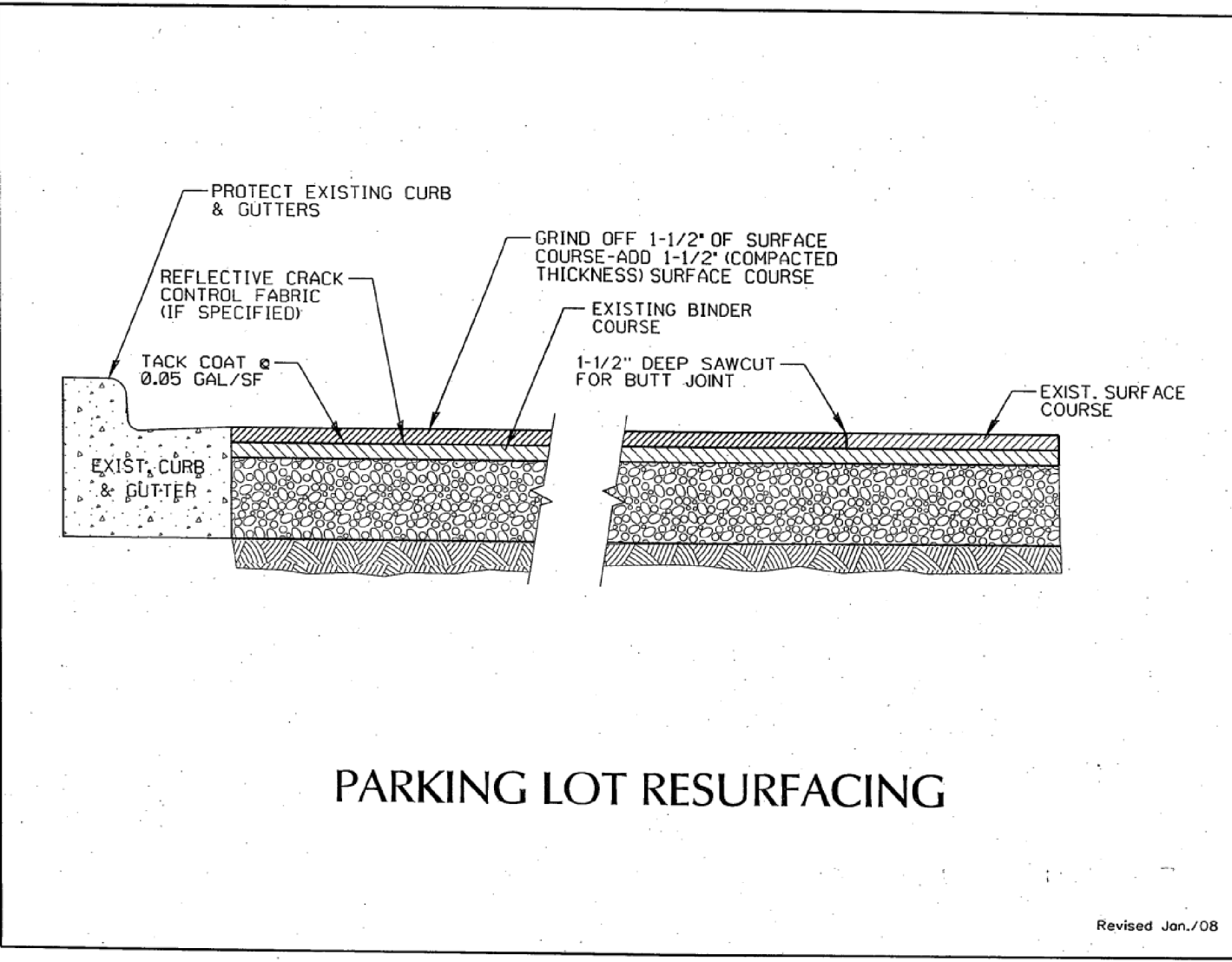
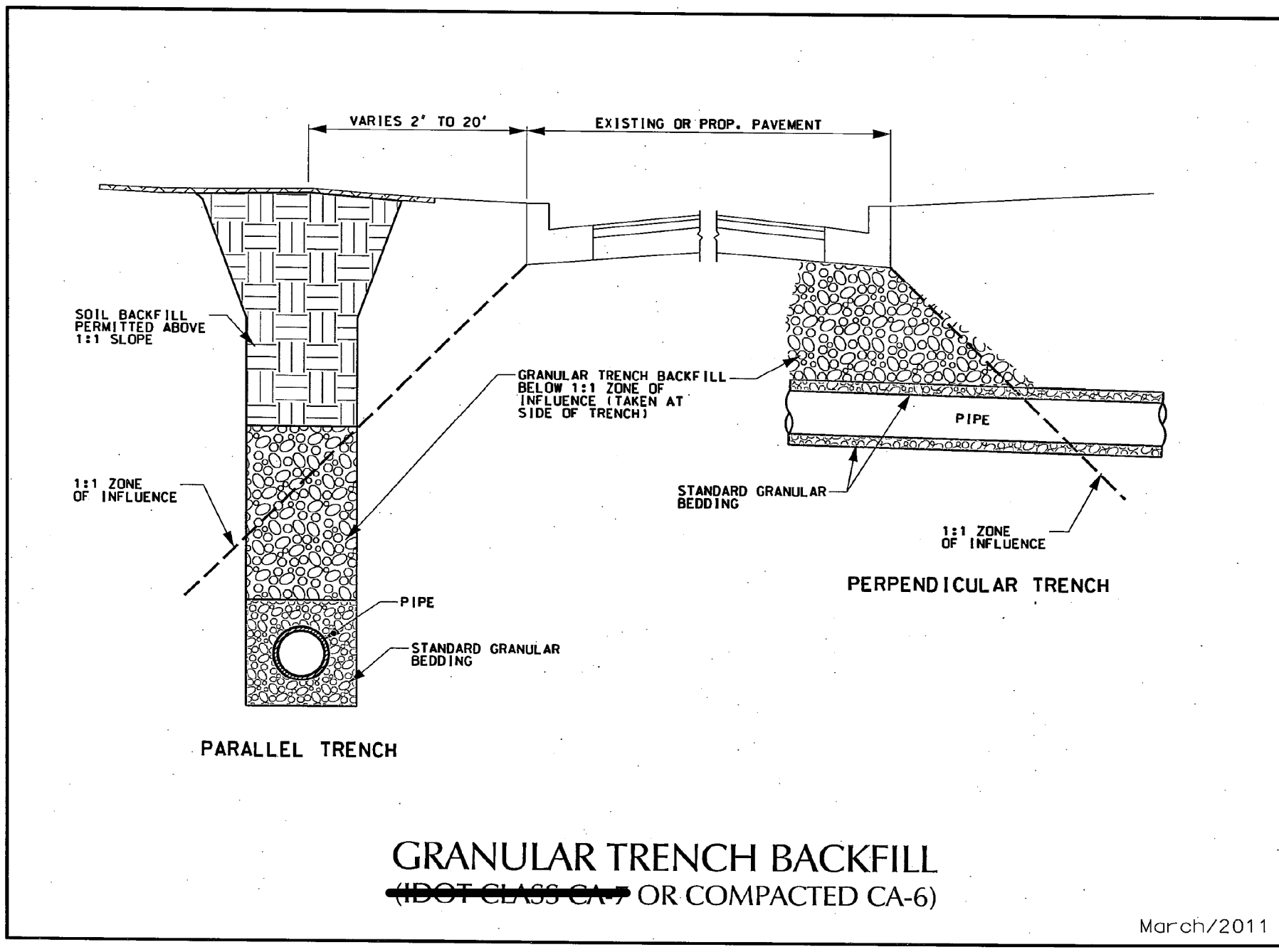
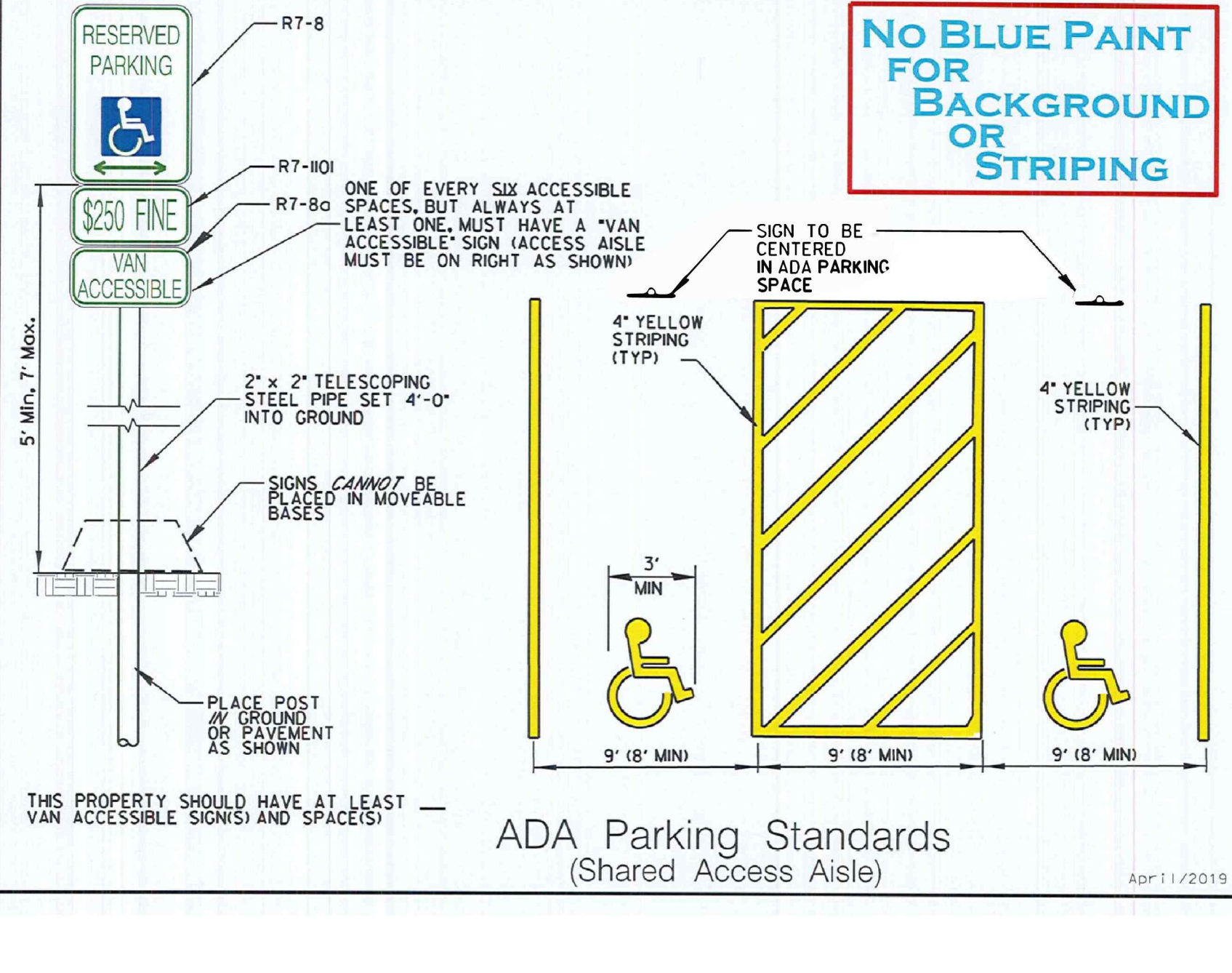
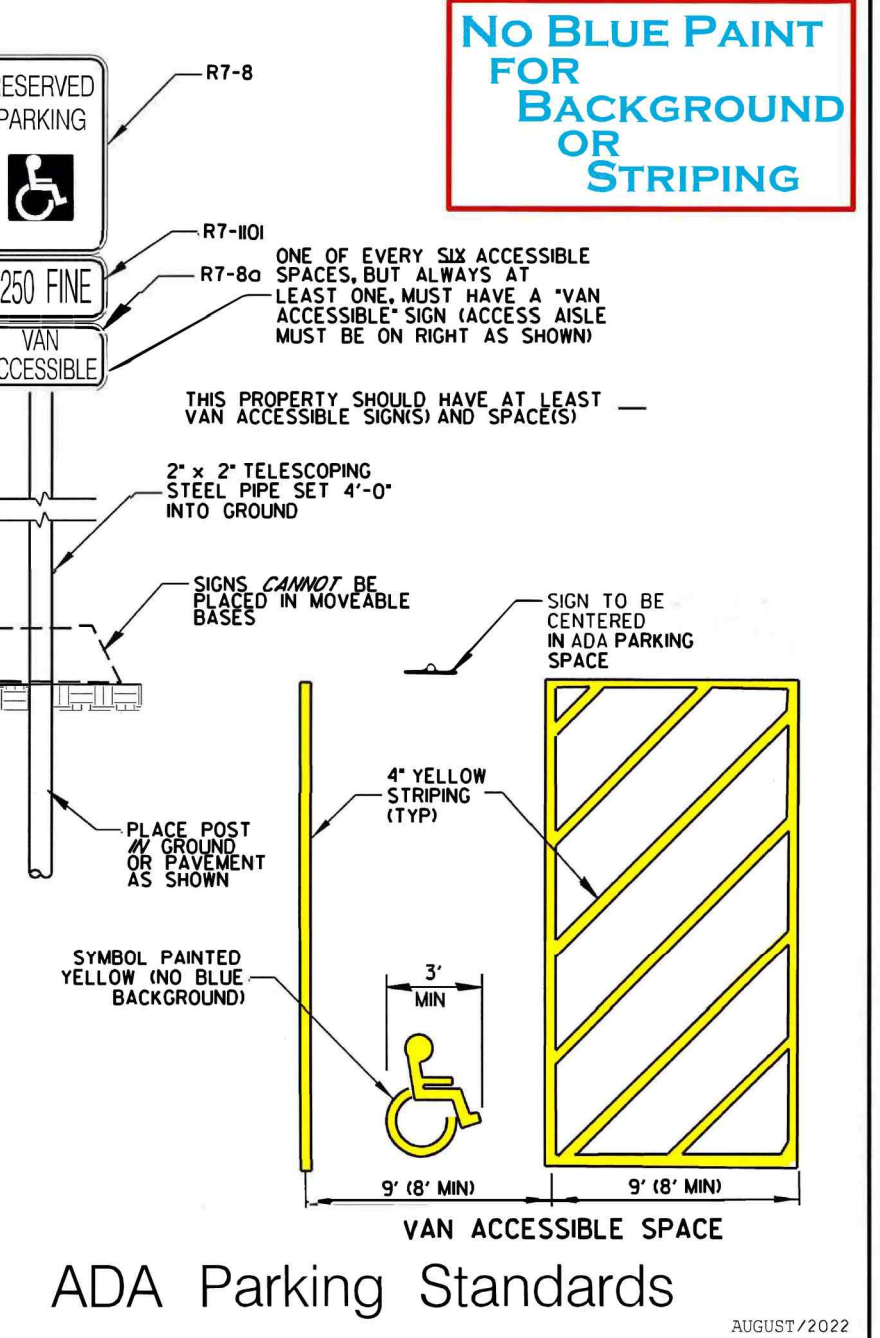
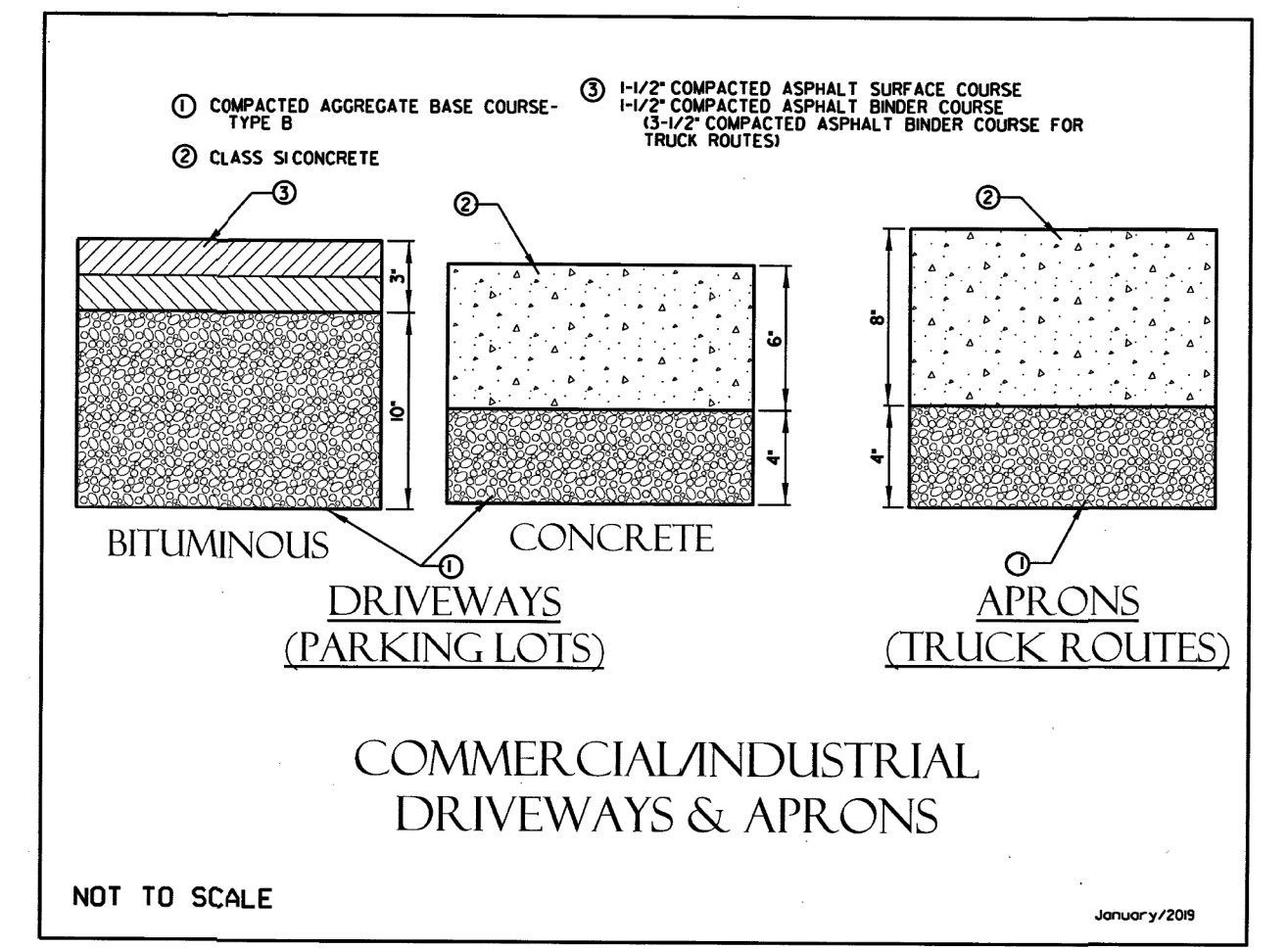
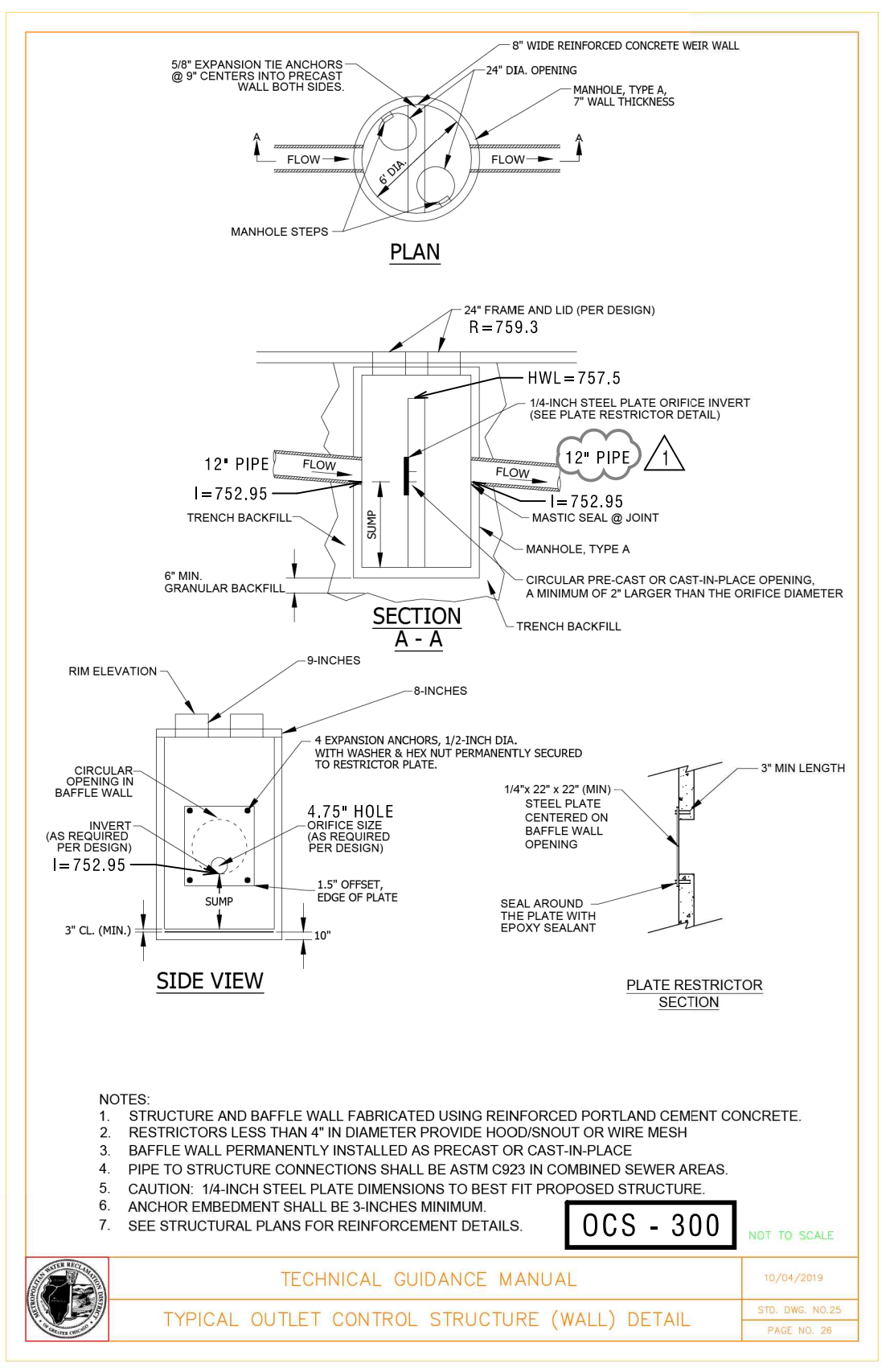
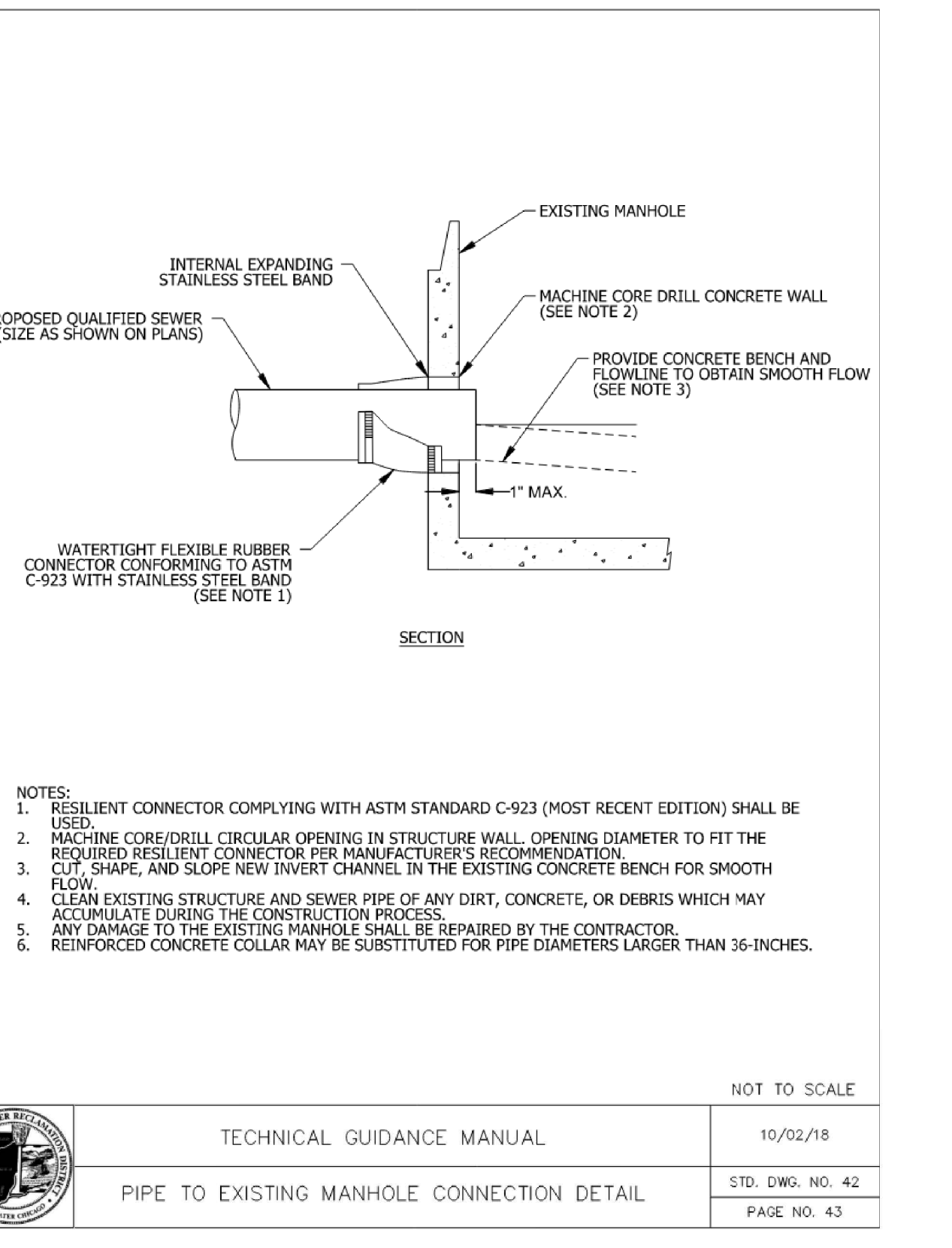
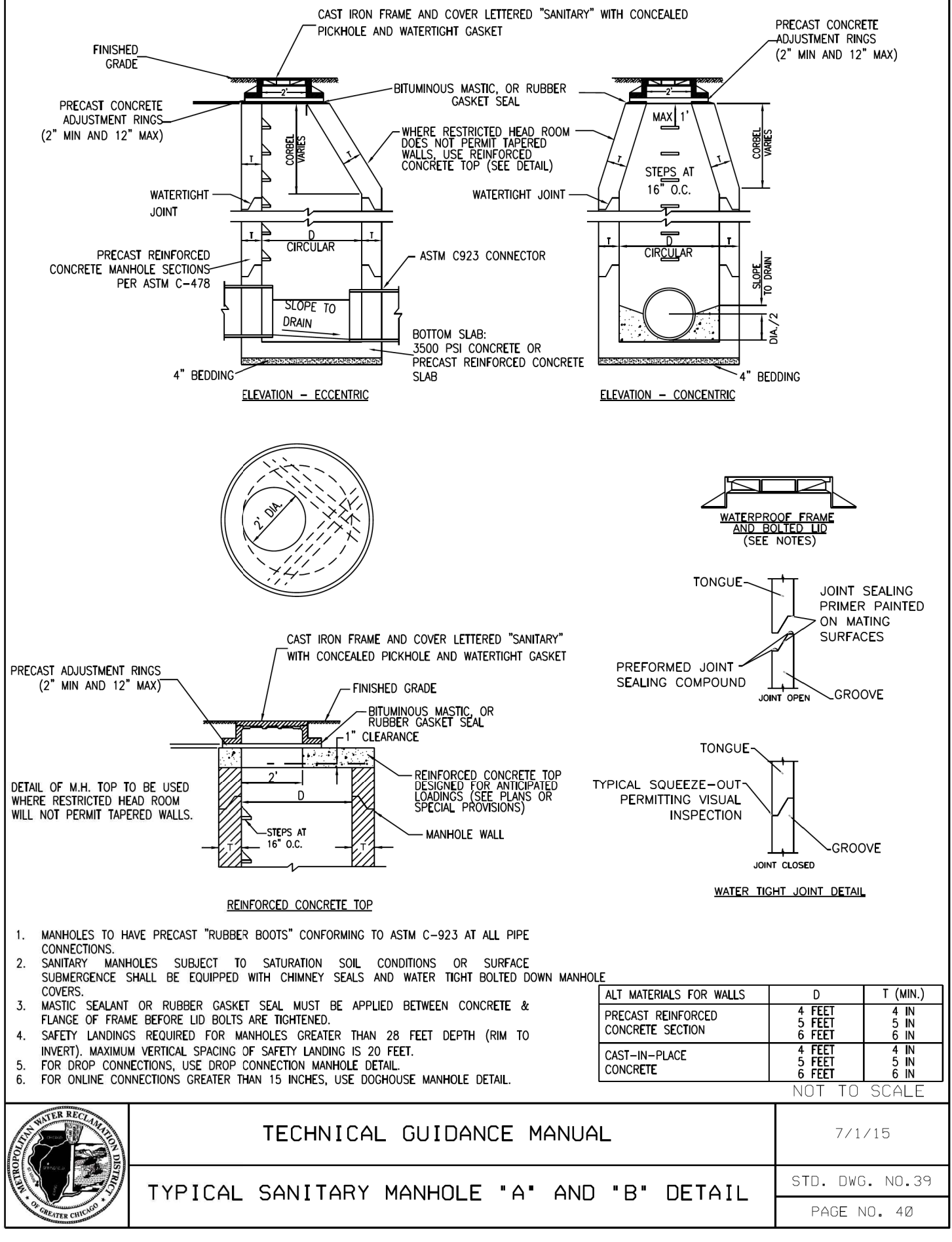
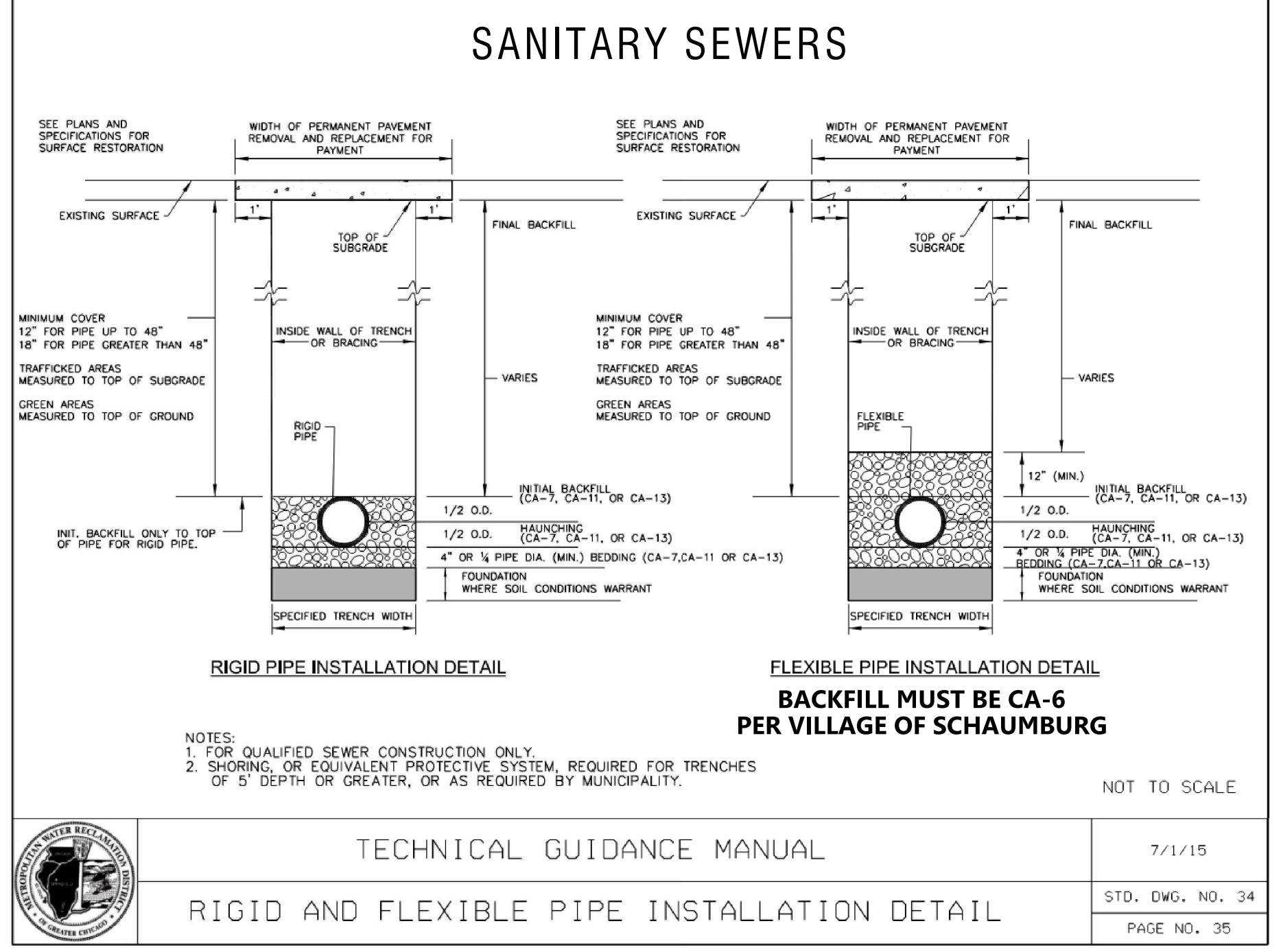
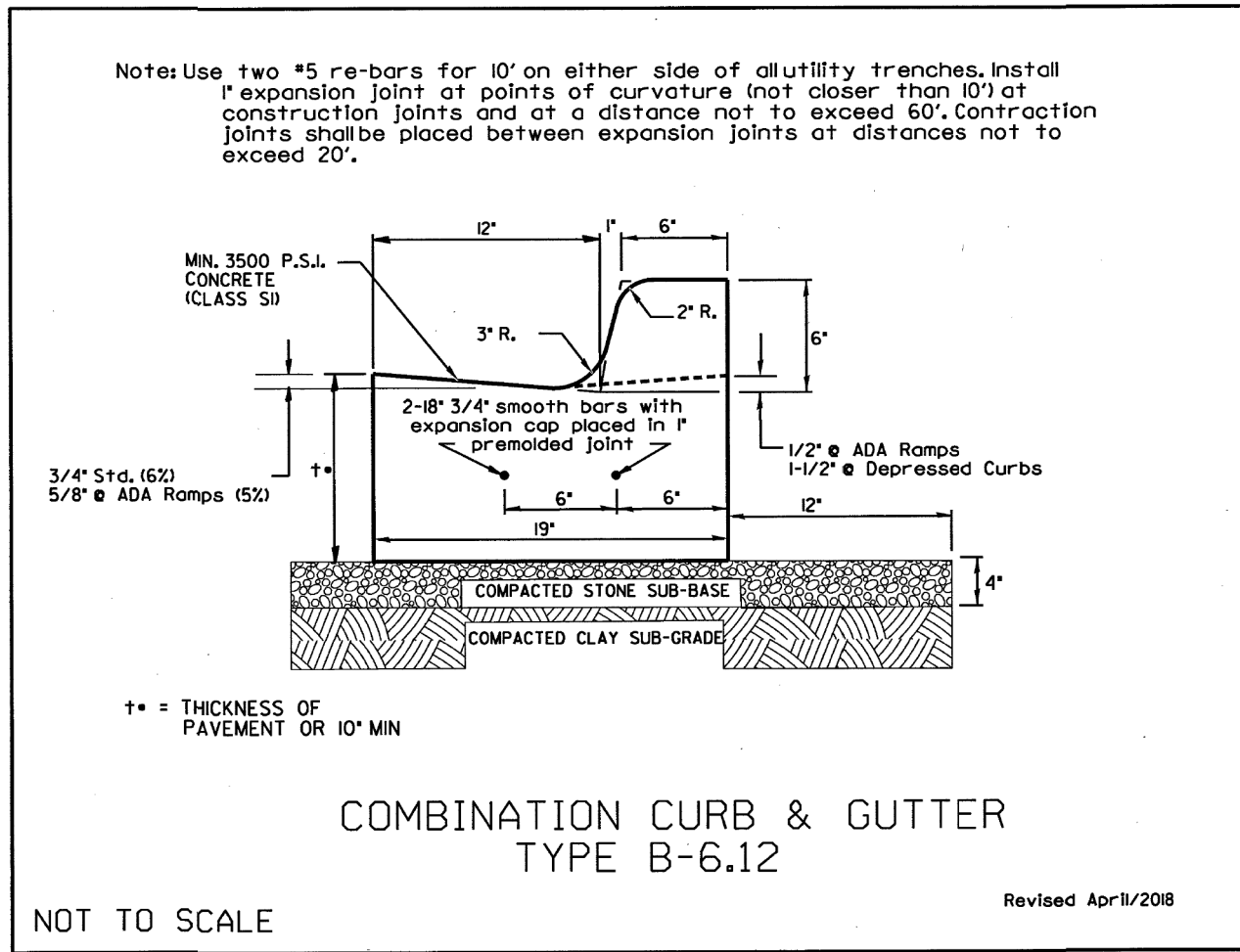
EARTHWORK NOTES	PAVING NOTES	SANITARY SEWER NOTES	STORM SEWER NOTES	STORM SEWER NOTES
<p>1. GENERAL</p> <p>A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE. THE CONTRACTOR SHALL OBTAIN AND READ THE GEOTECHNICAL REPORTS AVAILABLE FROM THE OWNER.</p> <p>B. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR'S USE IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS ORDERED IN WRITING BY THE OWNER.</p> <p>C. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE ELEVATIONS AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC. MUST BE SUBTRACTED TO DETERMINE SUBGRADE ELEVATIONS.</p> <p>D. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION, AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.</p> <p>E. PLANS FOR THE SITE Dewatering, IF EMPLOYED, SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR Dewatering DURING CONSTRUCTION.</p> <p>F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES". THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC. TO PROTECT ADJACENT PROPERTY, WETLANDS, ETC. SHALL OCCUR BEFORE GRADING BEGINS. A MUNICIPAL EROSION CONTROL INSPECTION MAY BE REQUIRED BEFORE ANY EARTHWORK IS PERFORMED.</p> <p>G. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ERRECT A "SNOW FENCE" AROUND ANY TREE DESIGNATED TO BE PRESERVED. SAID FENCE SHALL BE PLACED IN A CIRCLE CENTERED AROUND THE TREE, THE DIAMETER OF WHICH SHALL BE SUCH THAT THE ENTIRE DRIP ZONE (EXTENT OF FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE EXISTING GRADE WITHIN THE FENCED AREA SHALL NOT BE DISTURBED.</p> <p>H. EXCESS MATERIALS, IF NOT UTILIZED AS FILL, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.</p> <p>I. ALL EARTHWORK SHALL BE DONE UNDER THE SUPERVISION OF AN ILLINOIS LICENSED ENGINEER WHO SPECIALIZES IN THE GEOTECHNICAL FIELD (SOILS ENGINEER). THIS ENGINEER WILL BE RESPONSIBLE FOR ENSURING THAT ALL UNSUITABLE MATERIALS ARE REMOVED, ALL STRUCTURAL FILL MATERIALS ARE PROPERLY PLACED AND COMPACTED, ALL PAVEMENT SUBGRADES ARE PROPERLY PREPARED, PROOF ROLLING SUBGRADES AND BASE COURSES, AND ENSURING THAT ALL WATER RETAINING EMBANKMENTS ARE PROPERLY CONSTRUCTED. THE DEVELOPER PAYS FOR ALL GEOTECHNICAL SERVICES.</p> <p>2. TOPSOIL EXCAVATION INCLUDES:</p> <p>A. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL. EXISTING VEGETATION SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS.</p> <p>B. 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. PROVIDE NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.</p> <p>C. TOPSOIL STOCKPILED FOR SPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE.</p> <p>D. TOPSOIL SPREAD SHALL INCLUDE HAULING AND SPREADING 6" OF TOPSOIL OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR DIRECTED BY THE OWNER.</p> <p>E. MODERATE COMPACTION IS REQUIRED IN NON-STRUCTURAL FILL AREAS.</p> <p>3. EARTH EXCAVATION INCLUDES:</p> <p>A. EXCAVATION OF CLAY AND OTHER MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINE GRADING OPERATION.</p> <p>B. PLACEMENT OF THE CLAY 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 0.1 FEET. 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 REQUIRED COMPACTION.</p> <p>STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL, TO WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THIS MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.</p> <p>C. COMPACTION OF THE CLAY AND OTHER SUITABLE MATERIALS, SHALL BE TO AT LEAST 93% OF THE MODIFIED PROCTOR DRY DENSITY WITHIN PROPOSED PAVEMENT AREAS, SIDEWALK, ETC. COMPACTION SHALL BE AT LEAST 95% OF THE MODIFIED PROCTOR WITHIN PROPOSED BUILDING PAD AREAS.</p> <p>D. EXCAVATION: QUANTITIES OF EARTH EXCAVATION INDICATED ELSEWHERE IN THIS CONTRACT HAVE BEEN COMPUTED BY THE END AREA METHOD AS PROVIDED FOR IN SECTION 202 OF THE STANDARD SPECIFICATIONS. EXCAVATED MATERIALS NOT NEEDED FOR THIS JOB SITE SHALL BE LEGALLY DISPOSED OF. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER CUBIC YARD OF EARTH EXCAVATION.</p> <p>4. UNSUITABLE MATERIAL</p> <p>UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND 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.</p> <p>5. MISCELLANEOUS THE CONTRACTOR SHALL:</p> <p>A. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.</p> <p>B. SCARIFY, DISC, AERATE, 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.</p> <p>C. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.</p> <p>D. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL. THE CURBS SHALL NOT BE BACKFILLED UNTIL THE CONCRETE HAS CURED FOR AT LEAST 7 DAYS.</p> <p>E. TRENCH COMPACTION: ALL TRENCHES SHALL BE COMPACTED BY MECHANICAL TECHNIQUES APPROVED BY THE SOILS ENGINEER UNTIL PROPER COMPACTION IS ACHIEVED. THE REQUIREMENT FOR MECHANICAL COMPACTION MAY BE WAIVED IF, IN THE OPINION OF THE SOILS ENGINEER AND THE MUNICIPAL ENGINEER, THE EXCAVATED TRENCHES MEET THE DENSITY REQUIREMENTS. JETTING OF TRENCHES FOR COMPACTION WILL NOT BE ALLOWED.</p> <p>6. TESTING AND FINAL ACCEPTANCE</p> <p>A. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM, A FULLY LOADED SIX-WHEEL TANDEM AXLE TRUCK FOR PROOF ROLLING TO PROVIDE STABILIZATION TO THE PLACEMENT OF THE CURB AND GUTTER AND THE BASE MATERIAL. THIS SHALL BE WITNESSED BY MUNICIPAL ENGINEER AND THE OWNER. SEE PAVING SPECIFICATION.</p> <p>B. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL, OR OTHERWISE CORRECTED, APPROVED BY THE SOILS CONSULTANT.</p> <p>C. ANY TESTING THAT IS REQUIRED OF THIS CONSTRUCTION IS CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE.</p>	<p>1. GENERAL</p> <p>A. PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION AND COMPACTION; PLACEMENT OF SUB-BASE OR BASE COURSE MATERIAL; BITUMINOUS BINDER AND SURFACE COURSES; FORMING, FINISHING AND CURING CONCRETE PAVEMENT, CURBS AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK.</p> <p>B. COMPACTION REQUIREMENTS: [REFERENCE ASTM D-1557 (MODIFIED PROCTOR)] SUB-GRADE = 93%; SUB-BASE = 93%; AGGREGATE BASE COURSE = 95%; BITUMINOUS COURSES = REFER TO SRSBC ARTICLE 406.07. THE SOILS ENGINEER IS RESPONSIBLE FOR ENSURING THAT MATERIALS ARE PROPERLY PLACED AND COMPACTED.</p> <p>C. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE APPROPRIATE BARRICADING, WARNING DEVICES AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL, DEVICES, LATEST EDITION AND IN ACCORDANCE WITH THE MUNICIPAL CODE.</p> <p>2. SUB-GRADE PREPARATION</p> <p>A. EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT PLUS OR MINUS, OF PLAN ELEVATION. THE CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISH TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN THE TOLERANCES ALLOWED IN THESE SPECIFICATIONS. UNLESS THE CONTRACTOR ADVISES THE OWNER AND ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION, IT IS UNDERSTOOD THAT HE HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE.</p> <p>B. PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF ROLLED AND INSPECTED FOR UNSUITABLE MATERIALS AND/OR EXCESSIVE MOVEMENT. THE SOILS ENGINEER SHALL CONDUCT AND THE VILLAGE SHALL WITNESS ALL PROOF ROLLS. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE CORRECTED IN A MANNER APPROVED BY THE OWNER OR HIS REPRESENTATIVE. THIS MAY INCLUDE ONE OR MORE OF THE FOLLOWING METHODS:</p> <ol style="list-style-type: none"> 1) SCARIFY DISC AND AERATE. 2) REMOVE AND REPLACE WITH STRUCTURAL CLAY FILL. 3) REMOVE AND REPLACE WITH GRANULAR MATERIAL. 4) USE OF GEOTEXTILE FABRIC. <p>MAXIMUM DEFLECTION ALLOWED IN ISOLATED AREAS MAY BE 1/4" TO 1/2" IF NO DEFLECTION OCCURS OVER THE MAJORITY OF THE AREA.</p> <p>C. PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE PAVEMENT AREA SHALL BE FINE GRADED TO WITHIN 0.04 FEET (1/2") OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF CURB, SO AS TO INSURE THE PROPER THICKNESS OF PAVEMENT COURSES, NO CLAIMS FOR EXCESS QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED.</p> <p>D. PRIOR TO PLACEMENT OF THE BASE COURSE, ALL SUBGRADES MUST BE APPROVED BY THE MUNICIPAL ENGINEER, SOILS ENGINEER AND/OR OWNER.</p> <p>3. CONCRETE WORK</p> <p>A. ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE CLASS 51 OR PV PER (SRSBC) SECTION 1020.04 WITH AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%) PERCENT. CONCRETE SHALL BE A MINIMUM OF SIX (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT FOURTEEN (14) DAYS. ALL CONCRETE SHALL BE SMOOTH FINISHED PERPENDICULAR TO THE DIRECTION OF TRAVEL. THE ADDITION OF CALCIUM CHLORIDE AND THE SUBSTITUTION OF FLY ASH FOR PORTLAND CEMENT IS PROHIBITED. 1.50 lbs OF COLLATED, FILLERATED, POLYPROPYLENE OLEFIN FIBERS 0.50 TO 0.75 INCHES IN LENGTH SHALL BE ADDED TO EACH CUBIC YARD OF CONCRETE USED FOR SIDEWALKS. THE FIBERS SHALL BE AS MANUFACTURED UNDER THE NAME "FIBERMESH" OR EQUAL.</p> <p>B. CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS-SECTION TO DETERMINE THE GUTTER THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. 1" PREMOLDED FIBER EXPANSION JOINTS, WITH TWO 3/4" X 18" EPOXY COATED STEEL DOVREL BARS, SHALL BE INSTALLED AT SIXTY (60) FOOT INTERVALS AND AT ALL PC'S, PT'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOVREL BARS SHALL BE SMOOTH AND FITTED WITH METAL EXPANSION TUBES. SAWED OR FORMED CONSTRUCTION JOINTS SHALL BE PROVIDED AT NO GREATER THAN FIFTEEN (15) FOOT INTERVALS BETWEEN EXPANSION JOINTS. NO HONEY-COMBING OF THE CURB AND GUTTER WILL BE ACCEPTED. USE TWO #5 REBARS FOR 10' ON EITHER SIDE OF ALL UTILITY TRENCHES.</p> <p>C. CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS/PEDESTRIAN PATHS INTERSECT CURB LINES, AND OTHER LOCATIONS WHERE PROVISIONS FOR ACCESSIBILITY. FOR THE CONSTRUCTION STANDARDS (FOR CONSTRUCTION STANDARDS FOR DETAILS). BARRIER CURB SHALL ALSO BE DEPRESSED AT DRIVEWAY LOCATIONS.</p> <p>D. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE. THE CONCRETE MUST CURE FOR AT LEAST SEVEN DAYS BEFORE THE CURBS ARE BACKFILLED.</p> <p>E. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCHEDULED JOINTS AT 5 FOOT INTERVALS AND 1/2" PREMOLDED FIBER EXPANSION JOINTS AT 50 FOOT INTERVALS, AND ADJACENT TO CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, ETC. USE TWO #5 RE-BARS 10' ON EITHER SIDE OF ALL UTILITY TRENCHES.</p> <p>F. CONCRETE DRIVEWAY APRONS SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE 6" X 6" NO. 6 WELDED WIRE MESH IN DRIVEWAYS. PROVIDE 1/2" PREMOLDED FIBER EXPANSION JOINT ADJACENT TO CURBS AND CONCRETE SIDEWALKS. PROVIDE SAWED OR FORMED CONSTRUCTION JOINT AT MID-POINT AND 15-FOOT MAXIMUM.</p> <p>G. STANDARD REINFORCED CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. SAWED OR FORMED CONSTRUCTION EXPANSION JOINTS SHALL BE AS SHOWN ON THE PLANS.</p> <p>H. CONCRETE CURING AND PROTECTION SHALL BE IN ACCORDANCE WITH (SRSBC) - METHOD I, II, OR III.</p> <p>I. THE COST OF AGGREGATE BASE OR SUB-BASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONCRETE ITEM.</p> <p>4. FLEXIBLE PAVEMENT</p> <p>A. THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, DRIVEWAYS, SIDEWALKS AND PATHS SHALL BE AS DETAILED ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL CONSIST OF AGGREGATE BASE COURSE, TYPE B; BITUMINOUS CONCRETE BINDER COURSE; AND BITUMINOUS CONCRETE SURFACE COURSE; OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS. THE PAVING IS TO BE DONE IN ACCORD WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS.</p> <p>B. ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE BINDER COURSE IS LAID. THE AGGREGATE BASE SHALL BE UNIFORMLY PRIME COATED AT A RATE OF 0.4 TO 0.5 GALLONS PER SQUARE YARD PRIOR TO PLACING THE BINDER COURSE. PRIME COAT MATERIALS SHALL BE BITUMINOUS M.C. - 30.</p> <p>C. PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE BINDER COURSE SHALL BE CLEANED, AND TACK COATED IF DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE BINDER, BASE OR CURB SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WATER VEHICLE EQUIPMENT AND MANPOWER NECESSARY, INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSE AT A RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS SPECIFIED IN (SRSBC) SECTION 406.02.</p> <p>D. SEAMS IN BASE, BINDER AND SURFACE COURSE SHALL BE STAGGERED A MINIMUM OF 6'.</p> <p>E. FOR NEW STREETS, THE CONTRACTOR SHALL PERMIT THE BITUMINOUS CONCRETE BINDER COURSE TO WEATHER ONE (1) WINTER SEASON PRIOR TO THE INSTALLATION OF THE BITUMINOUS CONCRETE SURFACE COURSE UNLESS OTHERWISE SPECIFIED BY THE MUNICIPAL ENGINEER OR OWNER.</p> <p>5. TESTING AND FINAL ACCEPTANCE</p> <p>A. THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND PAVEMENT MATERIALS ESTABLISHED BY THE OWNER AND/OR MUNICIPALITY. TESTING SHALL BE DONE IN ACCORD WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS AND THE TESTING REQUIREMENTS OF THE MUNICIPALITY.</p> <p>B. WHEN REQUESTED BY THE OWNER, TEST RESULTS AND DOCUMENTATION FOR THE CONCRETE, BASE COURSE, BITUMINOUS CONCRETE BINDER, AND/OR SURFACE COURSE, SHALL BE SUBMITTED FOR VERIFICATION.</p> <p>C. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION.</p> <p>D. WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED, IN ORDER TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR BY THE METHOD DESCRIBED IN (SRSBC), ART. 407.10.</p> <p>E. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.</p>	<p>1. GENERAL</p> <p>A. SANITARY SEWER PIPE SHALL BE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE WITH A STANDARD DIMENSION RATIO (SDR) OF 38 CONFORMING TO ASTM D-3034 WITH PUSH-ON JOINTS CONFORMING TO ASTM D-3212 AND PVC (POLYVINYL CHLORIDE) PLASTIC PIPE WITH A STANDARD DIMENSION RATIO (SDR) OF 21 CONFORMING TO ASTM D-2241 WITH PUSH-ON JOINTS CONFORMING TO ASTM D-1319 AS SHOWN ON THE PLANS. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT OF SANITARY SEWER COMPLETE IN PLACE.</p> <p>B. SANITARY SEWER PIPE 18" AND LARGER, WHERE NOTED ON THE PLANS, OR WHERE THE IEPA MINIMUM SEPARATION CANNOT BE MAINTAINED, SHALL BE ONE OF THE FOLLOWING:</p> <p>PLAN CODE DESCRIPTION</p> <p>DIP: DUCTILE IRON WATERMAIN QUALITY PIPE, CLASS 52, (ANSI A-21.51) WITH MECHANICAL OR O-RING GASKETED JOINTS (ANSI A-21.11).</p> <p>PVC: PRESSURE RATED PVC PIPE MEETING ASTM D-2241 WITH ASTM D-319 GASKETED JOINT, SDR 26</p> <p>C. "BAND-SEAL" OR SIMILAR FLEXIBLE TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS. "BAND-SEAL", "FERROCO", AND "MISSION" TYPE COUPLINGS SHALL NOT BE USED ON ANY SEWER MAIN.</p> <p>D. ALL SANITARY SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.</p> <p>E. ALL FLOOR DRAINS SHALL CONNECT TO THE SANITARY SEWER.</p> <p>F. CONNECTIONS TO EXISTING SANITARY SEWER SYSTEM SHALL NOT BE DONE UNTIL AUTHORIZED BY THE MUNICIPALITY.</p> <p>G. WATERMANS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH IEPA REQUIREMENTS AS SPECIFIED IN "WATER MAIN" SECTION.</p> <p>H. NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE EXCEPT UNDER SPECIAL CIRCUMSTANCES AND THEN ONLY UNDER THE FOLLOWING RULES:</p> <ol style="list-style-type: none"> a) PERMISSION SHALL BE OBTAINED FROM THE MUNICIPAL ENGINEERING DEPARTMENT IN WRITING PRIOR TO BEGINNING CONSTRUCTION. b) THE BOTTOM OF A WATER LINE SHALL BE INSTALLED ON A SHELF A MINIMUM OF 18" ABOVE THE TOP OF THE SEWER AND 18" HORIZONTALLY AWAY FROM THE EDGE OF THE SEWER. <p>2. BEDDING:</p> <p>A. BEDDING SHALL CONSIST OF A MINIMUM OF FOUR (4") INCHES OF COMPACTED CRUSHED GRAVEL OR STONE, 1/4" - 3/4" IN SIZE. THE SEWER SHALL HAVE MECHANICALLY TAMPED CRUSHED GRAVEL OR STONE COVER ABOVE THE TOP OF THE PIPE TO A MINIMUM OF TWELVE (12") INCHES FOR PVC PIPE AND TO THE SPRING LINE FOR DIP. THE BEDDING AND COVER MATERIAL SHALL BE ASTM D-2121 CLASS II FOR PVC PIPE AND ASTM D-448 SIZE #1 FOR DIP PIPE. THE COST OF THE BEDDING AND COVER SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER.</p> <p>B. ALL UNSUITABLE MATERIAL SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH COMPACTED CA-6 CRUSHED GRAVEL OR STONE.</p> <p>C. ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF FIVE (5) FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CA-6) AND THOROUGHLY MECHANICALLY COMPACTED IN 6" THICK LAYERS (MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED. REFER TO THE TRENCH BACKFILL LIMITS DETAIL.</p> <p>3. MANHOLES:</p> <p>A. SANITARY SEWER MANHOLES SHALL BE 4'-0" I.D. PRECAST CONCRETE SECTIONS CONFORMING TO ASTM D-478 WITH PREFORMED BITUMINOUS OR "O" RING JOINTS, IN ACCORDANCE WITH MUNICIPAL REGULATIONS, AND HAVE AN ECCENTRIC COE INSTALLED TO LINE UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE AT 1" O.C. SIMILAR TO NEEHAH R-1890.</p> <p>B. ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER TIGHT SLEEVES. THE BOTTOM OF MANHOLE SHALL HAVE A CONCRETE BENCH POURED TO FACILITATE SMOOTH FLOWS.</p> <p>4. FRAMES AND LIDS:</p> <p>A. ALL SANITARY SEWER MANHOLE FRAMES AND LIDS SHALL BE NEEHAH R-1712 UNLESS OTHERWISE NOTED ON THE PLANS. THE LIDS SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF SEALING WITH AN "O" RING GASKET. THE LIDS SHALL HAVE THE WORDS "SANITARY" EMBOSSED ON THE SURFACE. THE JOINTS BETWEEN FRAME AND CONCRETE SECTION SHALL BE SEALED WITH A BUTYL ROPE.</p> <p>B. A MAXIMUM OF EIGHT (8) INCHES OF CONCRETE ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE.</p> <p>5. DROP MANHOLE ASSEMBLIES:</p> <p>A. DROP MANHOLE ASSEMBLIES: DROP MANHOLE ASSEMBLIES SHALL BE PROVIDED AT THE JUNCTION OF SANITARY SEWERS WHERE THE DIFFERENCE IN INVERT GRADES EXCEEDS TWO FEET (2'), OR AS SHOWN ON THE PLANS. THE ENTIRE DROP ASSEMBLY SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE MANHOLE BARREL SECTION.</p> <p>6. CLEANING:</p> <p>A. ALL MANHOLES AND PIPES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISIBLE LEAKAGE ELIMINATED, BEFORE FINAL INSPECTION AND ACCEPTANCE.</p> <p>7. TESTING:</p> <p>A. DEFLECTION AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS SHALL BE AS SPECIFIED IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" OR MUNICIPAL CODES. IN THE EVENT OF A DISCREPANCY BETWEEN THE STANDARD SPECIFICATIONS AND MUNICIPAL CODE, THE MUNICIPAL CODE SHALL GOVERN. THE FULL LENGTH OF THE SANITARY SEWER IS REQUIRED TO BE BOTH AIR TESTED AND DEFLECTION TESTED.</p> <p>C. TESTING OF MANHOLES TO BE IN ACCORDANCE WITH ASTM C-869.</p> <p>8. TELEVISION:</p> <p>A. ALL SANITARY SEWERS SHALL BE TELEVIEWED AND A COPY OF THE TAPE /DVD AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE OWNER OR MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE REPORT SHALL INCLUDE STUB LOCATION AS WELL AS A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS AND LENGTHS. IDENTIFY MANHOLE TO MANHOLE BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDER OF WRITTEN REPORT SHALL BE THE SAME AS THE VIDEO TAPES/DVDS.</p> <p>9. TEST RESULTS:</p> <p>A. IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ALL MATERIALS, AND WORKMANSHIP AS MAY BE NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS.</p> <p>10. CERTIFICATION:</p> <p>A. CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING", ASTM STANDARDS D-2412 OR D-2241 AS APPROPRIATE FOR THE PIPE TO BE USED. TESTS SHALL ALSO BE CONDUCTED TO DEMONSTRATE JOINT PERFORMANCE AT 5% MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT.</p> <p>11. RECORD DRAWINGS:</p> <p>A. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION TO PREPARE RECORD DRAWINGS (S) INCLUDING SERVICE TRENCH DEPTHS TO SPACECO. SPACECO SHALL PREPARE RECORD DRAWINGS AND SUBMIT TO APPROPRIATE PUBLIC AGENCIES. IF FINAL MEASUREMENTS INDICATE DEFICIENCIES, THE CONTRACTOR, AT HIS OWN COST, WILL ADJUST MANHOLES AND/OR SEWERS TO PROPER ELEVATIONS AND OTHERWISE CORRECT THE DEFICIENCIES.</p>	<p>2. BEDDING:</p> <p>A. ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE A GRANULAR BEDDING, 1/4" TO 3/4" IN SIZE (CA-3) WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE BUT NOT LESS THAN 4". BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY. BEDDING SHALL EXTEND TO THE SPRINGLINE ON ALL RCP AND DIP PIPE. BEDDING SHALL EXTEND TO 12" OVER ANY PVC OR PIPE PIPE. COST OF BEDDING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS.</p> <p>3. STRUCTURES:</p> <p>A. MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE A MINIMUM 4" IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH O-RING OR BUTYL ROPE. A MAXIMUM OF EIGHT (8) INCHES OF ADJUSTING RINGS SHALL BE USED.</p> <p>B. A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND MANHOLES.</p> <p>C. THE FRAME, GRATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS.</p> <p>D. MANHOLE LIDS SHALL BE MACHINE SURFACED, NON-ROCKING DESIGN. THE CLOSED LIDS SHALL HAVE THE WORD "STORM" CAST ON THE LID. THE JOINTS BETWEEN CONCRETE SECTION ADJUSTING RINGS, AND FRAME SHALL BE SEALED WITH A MASTIC COMPOUND.</p> <p>4. FRENCH DRAIN:</p> <p>A. ALL LOW POINT STORM STRUCTURES ARE TO HAVE FOUR 1" DIAMETER WEEP HOLES PROVIDED 24" BELOW THE TOP OF LID. THE HOLES SHALL BE COVERED WITH A GEOTEXTILE FILTER FABRIC CEMENTED IN PLACE WITH BITUMINOUS MASTIC. THE DRAIN SHALL BE BACKFILLED WITH BEDDING OR CA-7 CRUSHED STONE TO TOP OF SUBGRADE OR BOTTOM OF TOPSOIL.</p> <p>5. CASTINGS:</p> <p>A. CASTINGS FOR SEWER OR OTHER STRUCTURES SHALL BE "NEENAH" OR APPROVED EQUAL. COST OF CASTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE STRUCTURE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.</p> <p>6. CLEANING:</p> <p>A. THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.</p> <p>7. TELEVISION:</p> <p>A. THE STORM SEWER SYSTEM SHALL BE TELEVIEWED IF REQUIRED BY MUNICIPALITY.</p>	<p>NO. DATE REMARKS</p> <p>NO. DATE REMARKS</p> <p>NO. DATE REMARKS</p> <p>NO. DATE REMARKS</p>
<p>SIGNING AND PAVEMENT MARKING</p> <p>1. ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SRSBC), MUNICIPAL CODES AND THESE PLANS.</p> <p>2. CONTRACTOR SHALL ESTABLISH LOCATION OF ALL SIGNS AND MARKINGS FOR APPROVAL BY THE OWNER PRIOR TO INSTALLATION.</p> <p>3. SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080 INCH THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGEND ON THE FACE IN ACCORDANCE WITH (SRSBC) SECTION 720. LEGEND SHALL BE IN ACCORDANCE WITH MUTCD AND AS SHOWN ON THE PLANS.</p> <p>4. POSTS: SIGN POSTS SHALL BE A HEAVY DUTY STEEL "U" SHAPED CHANNEL WEIGHING 3.0 POUNDS/FOOT SUCH AS A TYPE B METAL POST PER (SRSBC) SECTION 729 [OR: 2" PERFORATED STEEL TUBE PER (SRSBC) SECTION 728].</p> <p>5. SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ABOVE (SRSBC) SECTIONS AND IDOT STANDARD 729001 EXCEPT AS MODIFIED BY THE PLANS.</p> <p>6. PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE ROADWAY LIMITS, SUCH AS STOP LINES, CENTERLINES, CROSSWALKS AND DIRECTIONAL ARROWS SHALL BE REFLECTORIZED THERMOPLASTIC PER (SRSBC) SECTION 750, EXCEPT AS MODIFIED BY THE PLANS. [NOTE TO ENGINEER: IDOT PREFERRED REFLECTORIZED PAINT ON CONCRETE PAVEMENT - CHECK WITH AGENCY WHO WILL MAINTAIN ROAD.]</p> <p>7. PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW WEAR" APPLICATION, SHALL BE PAINT IN ACCORDANCE TO (SRSBC) SECTION 780, EXCEPT AS MODIFIED BY THE PLANS. REFLECTIVE BEADS ARE NOT REQUIRED.</p> <p>8. COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH (MUTCD) EXCEPT AS MODIFIED BY THE PLANS.</p> <p>9. THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55° F AND RISING. PAINT MARKINGS MAY BE INSTALLED WHEN THE AIR TEMPERATURE IS 50° F AND RISING.</p>	<p>3. CONCRETE WORK</p> <p>A. ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE CLASS 51 OR PV PER (SRSBC) SECTION 1020.04 WITH AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%) PERCENT. CONCRETE SHALL BE A MINIMUM OF SIX (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT FOURTEEN (14) DAYS. ALL CONCRETE SHALL BE SMOOTH FINISHED PERPENDICULAR TO THE DIRECTION OF TRAVEL. THE ADDITION OF CALCIUM CHLORIDE AND THE SUBSTITUTION OF FLY ASH FOR PORTLAND CEMENT IS PROHIBITED. 1.50 lbs OF COLLATED, FILLERATED, POLYPROPYLENE OLEFIN FIBERS 0.50 TO 0.75 INCHES IN LENGTH SHALL BE ADDED TO EACH CUBIC YARD OF CONCRETE USED FOR SIDEWALKS. THE FIBERS SHALL BE AS MANUFACTURED UNDER THE NAME "FIBERMESH" OR EQUAL.</p> <p>B. CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS-SECTION TO DETERMINE THE GUTTER THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. 1" PREMOLDED FIBER EXPANSION JOINTS, WITH TWO 3/4" X 18" EPOXY COATED STEEL DOVREL BARS, SHALL BE INSTALLED AT SIXTY (60) FOOT INTERVALS AND AT ALL PC'S, PT'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOVREL BARS SHALL BE SMOOTH AND FITTED WITH METAL EXPANSION TUBES. SAWED OR FORMED CONSTRUCTION JOINTS SHALL BE PROVIDED AT NO GREATER THAN FIFTEEN (15) FOOT INTERVALS BETWEEN EXPANSION JOINTS. NO HONEY-COMBING OF THE CURB AND GUTTER WILL BE ACCEPTED. USE TWO #5 REBARS FOR 10' ON EITHER SIDE OF ALL UTILITY TRENCHES.</p> <p>C. CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS/PEDESTRIAN PATHS INTERSECT CURB LINES, AND OTHER LOCATIONS WHERE PROVISIONS FOR ACCESSIBILITY. FOR THE CONSTRUCTION STANDARDS (FOR CONSTRUCTION STANDARDS FOR DETAILS). BARRIER CURB SHALL ALSO BE DEPRESSED AT DRIVEWAY LOCATIONS.</p> <p>D. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE. THE CONCRETE MUST CURE FOR AT LEAST SEVEN DAYS BEFORE THE CURBS ARE BACKFILLED.</p> <p>E. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCHEDULED JOINTS AT 5 FOOT INTERVALS AND 1/2" PREMOLDED FIBER EXPANSION JOINTS AT 50 FOOT INTERVALS, AND ADJACENT TO CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, ETC. USE TWO #5 RE-BARS 10' ON EITHER SIDE OF ALL UTILITY TRENCHES.</p> <p>F. CONCRETE DRIVEWAY APRONS SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE 6" X 6" NO. 6 WELDED WIRE MESH IN DRIVEWAYS. PROVIDE 1/2" PREMOLDED FIBER EXPANSION JOINT ADJACENT TO CURBS AND CONCRETE SIDEWALKS. PROVIDE SAWED OR FORMED CONSTRUCTION JOINT AT MID-POINT AND 15-FOOT MAXIMUM.</p> <p>G. STANDARD REINFORCED CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. SAWED OR FORMED CONSTRUCTION EXPANSION JOINTS SHALL BE AS SHOWN ON THE PLANS.</p> <p>H. CONCRETE CURING AND PROTECTION SHALL BE IN ACCORDANCE WITH (SRSBC) - METHOD I, II, OR III.</p> <p>I. THE COST OF AGGREGATE BASE OR SUB-BASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONCRETE ITEM.</p> <p>4. FLEXIBLE PAVEMENT</p> <p>A. THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, DRIVEWAYS, SIDEWALKS AND PATHS SHALL BE AS DETAILED ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL CONSIST OF AGGREGATE BASE COURSE, TYPE B; BITUMINOUS CONCRETE BINDER COURSE; AND BITUMINOUS CONCRETE SURFACE COURSE; OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS. THE PAVING IS TO BE DONE IN ACCORD WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS.</p> <p>B. ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE BINDER COURSE IS LAID. THE AGGREGATE BASE SHALL BE UNIFORMLY PRIME COATED AT A RATE OF 0.4 TO 0.5 GALLONS PER SQUARE YARD PRIOR TO PLACING THE BINDER COURSE. PRIME COAT MATERIALS SHALL BE BITUMINOUS M.C. - 30.</p> <p>C. PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE BINDER COURSE SHALL BE CLEANED, AND TACK COATED IF DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE BINDER, BASE OR CURB SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WATER VEHICLE EQUIPMENT AND MANPOWER NECESSARY, INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSE AT A RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS SPECIFIED IN (SRSBC) SECTION 406.02.</p> <p>D. SEAMS IN BASE, BINDER AND SURFACE COURSE SHALL BE STAGGERED A MINIMUM OF 6'.</p> <p>E. FOR NEW STREETS, THE CONTRACTOR SHALL PERMIT THE BITUMINOUS CONCRETE BINDER COURSE TO WEATHER ONE (1) WINTER SEASON PRIOR TO THE INSTALLATION OF THE BITUMINOUS CONCRETE SURFACE COURSE UNLESS OTHERWISE SPECIFIED BY THE MUNICIPAL ENGINEER OR OWNER.</p> <p>5. TESTING AND FINAL ACCEPTANCE</p> <p>A. THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND PAVEMENT MATERIALS ESTABLISHED BY THE OWNER AND/OR MUNICIPALITY. TESTING SHALL BE DONE IN ACCORD WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS AND THE TESTING REQUIREMENTS OF THE MUNICIPALITY.</p> <p>B. WHEN REQUESTED BY THE OWNER, TEST RESULTS AND DOCUMENTATION FOR THE CONCRETE, BASE COURSE, BITUMINOUS CONCRETE BINDER, AND/OR SURFACE COURSE, SHALL BE SUBMITTED FOR VERIFICATION.</p> <p>C. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION.</p> <p>D. WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED, IN ORDER TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR BY THE METHOD DESCRIBED IN (SRSBC), ART. 407.10.</p> <p>E. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.</p>	<p>3. MANHOLES:</p> <p>A. SANITARY SEWER MANHOLES SHALL BE 4'-0" I.D. PRECAST CONCRETE SECTIONS CONFORMING TO ASTM D-478 WITH PREFORMED BITUMINOUS OR "O" RING JOINTS, IN ACCORDANCE WITH MUNICIPAL REGULATIONS, AND HAVE AN ECCENTRIC COE INSTALLED TO LINE UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE AT 1" O.C. SIMILAR TO NEEHAH R-1890.</p> <p>B. ALL PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATER TIGHT SLEEVES. THE BOTTOM OF MANHOLE SHALL HAVE A CONCRETE BENCH POURED TO FACILITATE SMOOTH FLOWS.</p> <p>4. FRAMES AND LIDS:</p> <p>A. ALL SANITARY SEWER MANHOLE FRAMES AND LIDS SHALL BE NEEHAH R-1712 UNLESS OTHERWISE NOTED ON THE PLANS. THE LIDS SHALL HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF SEALING WITH AN "O" RING GASKET. THE LIDS SHALL HAVE THE WORDS "SANITARY" EMBOSSED ON THE SURFACE. THE JOINTS BETWEEN FRAME AND CONCRETE SECTION SHALL BE SEALED WITH A BUTYL ROPE.</p> <p>B. A MAXIMUM OF EIGHT (8) INCHES OF CONCRETE ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. RINGS SHALL BE SEALED TOGETHER WITH BUTYL ROPE.</p> <p>5. DROP MANHOLE ASSEMBLIES:</p> <p>A. DROP MANHOLE ASSEMBLIES: DROP MANHOLE ASSEMBLIES SHALL BE PROVIDED AT THE JUNCTION OF SANITARY SEWERS WHERE THE DIFFERENCE IN INVERT GRADES EXCEEDS TWO FEET (2'), OR AS SHOWN ON THE PLANS. THE ENTIRE DROP ASSEMBLY SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE MANHOLE BARREL SECTION.</p> <p>6. CLEANING:</p> <p>A. ALL MANHOLES AND PIPES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS, AND ALL VISIBLE LEAKAGE ELIMINATED, BEFORE FINAL INSPECTION AND ACCEPTANCE.</p> <p>7. TESTING:</p> <p>A. DEFLECTION AND LEAKAGE TESTING WILL BE REQUIRED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS SHALL BE AS SPECIFIED IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" OR MUNICIPAL CODES. IN THE EVENT OF A DISCREPANCY BETWEEN THE STANDARD SPECIFICATIONS AND MUNICIPAL CODE, THE MUNICIPAL CODE SHALL GOVERN. THE FULL LENGTH OF THE SANITARY SEWER IS REQUIRED TO BE BOTH AIR TESTED AND DEFLECTION TESTED.</p> <p>C. TESTING OF MANHOLES TO BE IN ACCORDANCE WITH ASTM C-869.</p> <p>8. TELEVISION:</p> <p>A. ALL SANITARY SEWERS SHALL BE TELEVIEWED AND A COPY OF THE TAPE /DVD AND A WRITTEN REPORT SHALL BE SUBMITTED AND REVIEWED BY THE OWNER OR MUNICIPALITY BEFORE FINAL ACCEPTANCE. THE REPORT SHALL INCLUDE STUB LOCATION AS WELL AS A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS AND LENGTHS. IDENTIFY MANHOLE TO MANHOLE BOTH VERBALLY AND ON-SCREEN USING MANHOLE NUMBERS FROM APPROVED PLANS. ORDER OF WRITTEN REPORT SHALL BE THE SAME AS THE VIDEO TAPES/DVDS.</p> <p>9. TEST RESULTS:</p> <p>A. IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT AND SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ALL MATERIALS, AND WORKMANSHIP AS MAY BE NECESSARY TO COMPLY WITH THE TEST REQUIREMENTS.</p> <p>10. CERTIFICATION:</p> <p>A. CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING", ASTM STANDARDS D-2412 OR D-2241 AS APPROPRIATE FOR THE PIPE TO BE USED. TESTS SHALL ALSO BE CONDUCTED TO DEMONSTRATE JOINT PERFORMANCE AT 5% MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT.</p> <p>11. RECORD DRAWINGS:</p> <p>A. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION TO PREPARE RECORD DRAWINGS (S) INCLUDING SERVICE TRENCH DEPTHS TO SPACECO. SPACECO SHALL PREPARE RECORD DRAWINGS AND SUBMIT TO APPROPRIATE PUBLIC AGENCIES. IF FINAL MEASUREMENTS INDICATE DEFICIENCIES, THE CONTRACTOR, AT HIS OWN COST, WILL ADJUST MANHOLES AND/OR SEWERS TO PROPER ELEVATIONS AND OTHERWISE CORRECT THE DEFICIENCIES.</p>	<p>WATERMAIN NOTES</p> <p>1. PIPE MATERIALS:</p> <p>A. WATERMANS OR SERVICES 3" OR LARGER IN DIAMETER SHALL BE DUCTILE IRON PIPE WITH AN EXTERNAL METALLIC ZINC-BASED COATING WITH FINISHING LAYER TOPCOAT APPLIED ACCORDING TO ISO STANDARD 8170-1, LATEST EDITION. THE MASS OF THE ZINC APPLIED SHALL BE 200G/M² OF PIPE SURFACE AREA.</p>	

VILLAGE OF SCHAUMBURG GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS	VILLAGE OF SCHAUMBURG GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS (CONT.)	VILLAGE OF SCHAUMBURG WATER MAIN CONSTRUCTION SPECIFICATIONS (CONT.)	AWWA C651-14 SECTION 4.11: DISINFECTION PROCEDURES WHEN CUTTING INTO OR REPAIRING EXISTING MAINS	AWWA C651-14 SECTION 4.11: DISINFECTION PROCEDURES WHEN CUTTING INTO OR REPAIRING EXISTING MAINS (CONTINUED)												
<p>1. THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016, THE MOST RECENT EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AND REVISIONS THERETO, THESE IMPROVEMENT PLANS AND DETAILS, SPECIAL PROVISIONS AND CODES AND ORDINANCES OF THE VILLAGE OF SCHAUMBURG, ILLINOIS SHALL GOVERN APPLICABLE PORTIONS OF THIS PROJECT.</p> <p>2. THE CONTRACTOR SHALL OBTAIN, ERECT, MAINTAIN AND REMOVE ALL SIGNS, BARRICADES, FLAGMEN AND OTHER CONTROL DEVICES AS MAY BE NECESSARY FOR THE PURPOSE OF REGULATING, WARNING OR GUIDING TRAFFIC. PLACEMENT AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PARTS OF ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS, THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.</p> <p>3. LOCATION OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY, AND ARE NOT NECESSARILY COMPLETE. CONTRACTOR SHALL MAKE HIS OWN INVESTIGATIONS AS TO LOCATION OF ALL EXISTING UNDERGROUND STRUCTURES, CABLES, UTILITIES AND PIPE LINES.</p> <p>4. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND VILLAGE SO THAT THE CONFLICT MAY BE RESOLVED.</p> <p>5. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. (1-800-892-0123) AT LEAST TEN DAYS PRIOR TO CONSTRUCTION SO REQUIRED PROTECTION OF ALL ROADWAYS, STRUCTURES, POLES, CABLES AND PIPE LINES, BEFORE CONSTRUCTION THAT EACH UTILITY COMPANY CAN STAKE OUT ANY UNDERGROUND IMPROVEMENTS THAT THEY MAY HAVE WHICH MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION.</p> <p>6. THE CONTRACTOR SHALL BE REQUIRED TO MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS, STRUCTURES, POLES, CABLES AND PIPE LINES, BEFORE CONSTRUCTION BEGINS. HE SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER AND VILLAGE AT HIS OWN EXPENSE.</p> <p>7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AND VILLAGE BY THE CONTRACTOR AT HIS OWN EXPENSE.</p> <p>8. THE CONTRACTOR SHALL EXAMINE THE PLANS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND INFORM HIMSELF/HERSELF FULLY WITH THE WORK INVOLVED, GENERAL AND LOCAL CONDITIONS, ALL FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, REGULATIONS AND ALL OTHER PERTINENT ITEMS WHICH MAY AFFECT THE COST AND TIME OF COMPLETION OF THIS PROJECT BEFORE SUBMITTING A BID.</p> <p>9. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS.</p> <p>10. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL CALL THE ATTENTION OF THE ENGINEER TO ANY MATERIAL OR EQUIPMENT HE DEEMS INADEQUATE AND TO ANY ITEM OF WORK OMITTED.</p> <p>11. THE PAY ITEMS SHALL BE AS NOTED IN THE SUMMARY OF QUANTITIES. ANY ITEM OF WORK THAT IS SHOWN ON THE PLANS TO BE PERFORMED BY THE CONTRACTOR, FOR WHICH THERE IS NO PAY ITEM, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT.</p> <p>12. THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE TO PLACE ON GRADE AND COORDINATE WITH OTHER CONTRACTORS ALL UNDERGROUND STRUCTURE FRAMES SUCH AS CATCH BASINS, INLETS, MANHOLES, HYDRANTS, BUFFALO BOXES, VALVES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE AND SAID ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF CONSTRUCTION.</p> <p>13. THE CONTRACTOR SHALL RESTORE ANY AREA DISTURBED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL USE. THIS SHALL INCLUDE FINISH GRADING, ESTABLISHMENT OF A VEGETATIVE COVER (SEEDING OR SOD), GENERAL CLEANUP AND PAVEMENT REPLACEMENT.</p> <p>14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND HEALTHFUL WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.</p> <p>15. THE CONTRACTOR SHALL INFORM THE VILLAGE ENGINEER BEFORE WORK COMMENCES ON EACH CATEGORY OF CONSTRUCTION, I.E. WATER MAIN AND STORM SEWER. A TWENTY-FOUR (24) HOUR NOTICE SHALL BE GIVEN FOR ANY ITEM THAT REQUIRES FINAL TESTING AND INSPECTION SUCH AS WATER MAINS OR STORM SEWERS.</p> <p>16. ALL LOT IRONS DAMAGED OR REMOVED DURING CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED BY THE ENGINEER AND SAID COST OF REPLACEMENT SHALL BE PAID BY THE CONTRACTOR.</p> <p>17. BEFORE ACCEPTANCE BY THE VILLAGE AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE VILLAGE ENGINEER. FINAL PAYMENT SHALL BE MADE AFTER ALL OF THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED.</p> <p>18. THE CONTRACTOR WILL HAVE IN HIS POSSESSION ON THE JOB SITE A COPY OF THE PLANS AND SPECIFICATIONS DURING CONSTRUCTION.</p> <p>19. IF ANY APPROVED EQUAL ITEMS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT THE VILLAGE FOR APPROVAL.</p> <p>20. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED BY THE CONTRACTOR DURING THE INSTALLATION OF THE IMPROVEMENTS SHALL BE RETURNED TO ORIGINAL CONDITION. THE VILLAGE SHALL BE NOTIFIED OF THE FIELD TILE TO WITNESS THE REPAIR AND DOCUMENT ITS LOCATION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.</p> <p>21. ALL ROAD SIGNS, STREET SIGNS AND TRAFFIC SIGNS WHICH NEED TO BE RELOCATED OR MOVED DUE TO CONSTRUCTION SHALL BE TAKEN DOWN AND STORED BY THE CONTRACTOR AT HIS OWN EXPENSE, EXCEPT THOSE WHICH ARE NECESSARY FOR PROPER TRAFFIC CONTROL WHICH SHALL BE TEMPORARILY RESET UNTIL COMPLETION OF CONSTRUCTION OPERATIONS. AFTER COMPLETION OF THE WORK, THE CONTRACTOR SHALL RESET, AT HIS EXPENSE, ALL SAID SIGNS.</p> <p>22. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION, UNSUITABLE AND UNUSABLE MATERIALS OFFSITE AND AT AN APPROVED LOCATION IN A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED. THIS WORK IS CONSIDERED AS INCIDENTAL TO THE COST OF THE PROJECT.</p> <p>23. NO EXCAVATIONS WILL BE PERMITTED TO REMAIN OPEN OVER ANY WEEKEND.</p> <p>24. "BAND-SEAL" OR SIMILAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS.</p> <p>25. AS-BUILT DRAWINGS SHALL BE PREPARED BY THE VILLAGE CONSULTANT AND SUBMITTED TO THE VILLAGE ENGINEER AS SOON AS THE SITE IMPROVEMENTS ARE COMPLETED. ANY CHANGE IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED.</p> <p>26. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY REQUIRED INSPECTIONS WITH THE VILLAGE OF SCHAUMBURG.</p> <p>27. SPECIAL ATTENTION IS DRAWN TO THE FACT THAT ARTICLE 105.06 OF THE STANDARD SPECIFICATIONS REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBJECT. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVE CONTROL OF ALL WORK. THE AGENT OF THE CONTRACTOR, FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.</p>	<p>28. THE ENGINEER AND VILLAGE ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.</p> <p>29. IF GROUNDWATER IS ENCOUNTERED, THE DEWATERING SHALL BE CONSIDERED INCIDENTAL WHEN NECESSARY. PRIOR TO COMMENCING ANY DEWATERING, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A DEWATERING PLAN INDICATING WELL POINT LOCATIONS, PUMP SIZES AND CAPACITIES AND ALL DISCHARGE POINTS.</p> <p style="text-align: center;">VILLAGE OF SCHAUMBURG WATER MAIN CONSTRUCTION</p> <p>1. ALL WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION, THE NOTES ON THE PLANS, AND IN ACCORDANCE WITH CODES AND ORDINANCES OF THE VILLAGE OF SCHAUMBURG, ILLINOIS.</p> <p>2. ALL WATER MAIN SHALL BE DUCTILE IRON PIPE CLASS 52 WITH EITHER MECHANICAL OR PUSH-ON JOINTS AND SHALL CONFORM TO ANSI A21.51-96, AWWA C151 AND ANSI A21.11-00, AWWA C111. PIPE SHALL BE MANUFACTURED IN THE UNITED STATES.</p> <p>3. ALL FITTINGS SHALL BE COMPACT DUCTILE IRON AND SHALL CONFORM TO AWWA/ANSI C153/A21.53-00. FITTINGS SHALL BE U.L. LISTED CLASS 350 TYLER GRIFFIN OR APPROVED EQUAL. FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES.</p> <p>4. ALL PIPE AND FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA/ANSI C104/A21.4-95.</p> <p>5. ALL FITTINGS SHALL BE MECHANICAL JOINT AND INSTALLED WITH RETAINER GLANDS UNLESS OTHERWISE SHOWN ON THE DRAWINGS. ALL FASTENERS SHALL BE 304 STAINLESS STEEL-BOLTS AND NUTS.</p> <p>6. ALL MECHANICAL JOINT FITTINGS, VALVES, AND HYDRANTS SHALL BE RESTRAINED WITH RETAINER GLANDS. RETAINER GLANDS SHALL BE EBAA IRON SERIES 1100 MEGALUG, UNI-FLANGE SERIES 1400, STARGRIP SERIES 3000, OR SIGMA ONE LOK SLD.</p> <p>7. ALL WATER MAIN SHALL BE WRAPPED WITH POLYETHYLENE IN ACCORDANCE WITH AWWA/ANSI C105/A21.5-99.</p> <p>8. LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE LAID WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL BE IN ACCORDANCE WITH AWWA C600-99. WHEN RUBBER GASKETED PIPE IS LAID ON A CURVE, THE PIPE SHALL BE JOINTED IN A STRAIGHT ALIGNMENT AND THEN DEFLECTED TO THE CURVED ALIGNMENT. TRENCHES SHALL BE MADE WIDER ON CURVES FOR THIS PURPOSE.</p> <p>9. ALL VALVES SHALL BE GATE VALVES AND SHALL HAVE A NON-RISING STEM, A STANDARD OPERATING NUT, AND OPEN IN A COUNTER-CLOCKWISE DIRECTION. GATE VALVES SHALL BE CLOW, OR MUELLER RESILIENT WEDGE GATE VALVE IN ACCORDANCE WITH AWWA C509-94. GATE VALVES SHALL BE IN VALVE VAULTS. ALL GATE VALVES SHALL BE CONSISTENT THROUGHOUT A DEVELOPMENT. NO BUTTERFLY VALVES ARE ALLOWED.</p> <p>10. ALL VALVE BOXES SHALL BE CAST IRON, TWO (2) PIECE 5/4" SHAFTS. ALL VALVE BOXES SHALL EITHER BE TRENCH ADAPTER MODEL 6 BY AMERICAN FLOW CONTROL OR SCREW TYPE TYLER MODEL 666-S AND ATTACHED TO THE HYDRANT BARREL WITH GRIP ARMS AS MANUFACTURED BY BLR OR APPROVED EQUAL. LIDS TO BE MARKED "WATER" (VALVE BOX EXTENSIONS IF REQUIRED ARE CONSIDERED INCIDENTAL).</p> <p>11. ALL HYDRANTS SHALL BE IN ACCORDANCE WITH AWWA C502-94 AND SHALL BE MUELLER MODEL # A-423 OR CLOW MODEL # F-2545 BREAK-FLANGE TYPE HYDRANT (RED) WITH 5.25" VALVE. 4.5" PUMPER AND 2-2.50" HOUSE CONNECTIONS. STAINLESS STEEL LOWER STEM. ALL HYDRANTS SHALL BE ONE MODEL THROUGHOUT A DEVELOPMENT.</p> <p>12. SLEEVES SHALL BE MECHANICAL JOINT DUO-SLEEVES. D.I. DUO-SLEEVES SHALL BE PROVIDED AT LOCATIONS SHOWN ON THE PLANS OR AS REQUIRED.</p> <p>13. ALL TEES, BENDS, FIRE HYDRANTS, PLUGS, AND VALVES SHALL BE ADEQUATELY SUPPORTED WITH A CONCRETE BASE AND SUPPORTED LATERALLY WITH POURED IN PLACE THRUST BLOCKING AGAINST UNDISTURBED EARTH.</p> <p>14. ALL WATER MAINS SHALL HAVE A MINIMUM DEPTH OF COVER OF 5'5".</p> <p>15. ALL PRESSURE TAPS TO AN EXISTING VILLAGE MAIN SHALL BE MADE WITH A STAINLESS STEEL CASCADE TAPPING SLEEVE AND TAPPING VALVE WHICH MATCHES THE TYPE OF OTHER VALVES ON THE PROJECT AND SHALL BE CONSTRUCTED IN VALVE VAULT.</p> <p>16. THE CONTRACTOR SHALL OBTAIN, ERECT, MAINTAIN, AND REMOVE ALL SIGNS, BARRICADES, FLAGMEN, AND OTHER CONTROL DEVICES AS MAY BE NECESSARY FOR THE PURPOSE OF REGULATING, WARNING, OR GUIDING TRAFFIC. PLACEMENT AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PARTS OF ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS AND THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. CONTRACTOR SHALL FURNISH A TRAFFIC CONTROL PLAN FOR IDOT OR VILLAGE APPROVAL IF REQUIRED.</p> <p>17. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS.</p> <p>18. THE CONTRACTOR SHALL RESTORE ANY AREA DISTURBED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL USE. THIS SHALL INCLUDE FINISH GRADING, ESTABLISHMENT OF A VEGETATIVE COVER (SEEDING OR SOD), GENERAL CLEANUP, AND PAVEMENT REPLACEMENT.</p> <p>19. ALL TRENCHES CAUSED BY THE CONSTRUCTION OF SEWERS, WATER MAINS, WATER SERVICE PIPES, AND THE EXCAVATION AROUND CATCH BASINS, MANHOLES, INLETS, AND OTHER APPURTENANCES WHICH OCCUR WITHIN THE LIMITS OF EXISTING OR PROPOSED PAVEMENTS, SIDEWALKS, AND CURB AND CUTTERS OR WHERE THE EDGE OF THE TRENCH SHALL BE WITHIN 2' OF SAID IMPROVEMENTS SHALL BE BACKFILLED WITH CA-7 LIMESTONE (IDOT CERTIFIED), OR OTHER MATERIAL AS INDICATED ON PLANS OR CONTRACT DOCUMENTS, AND MECHANICALLY COMPACTED IN 6"-12" LIFTS DEPENDING ON COMPACTION EQUIPMENT USED.</p> <p>20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND HEALTHFUL WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.</p> <p>21. BEFORE ACCEPTANCE BY THE VILLAGE ALL WORK SHALL BE INSPECTED AND APPROVED BY THE VILLAGE OR ITS REPRESENTATIVES.</p>	<p>22. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.</p> <p>23. WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, HOUSE SEWER SERVICE CONNECTIONS, AND DRAINS IN ACCORDANCE WITH TITLE 35: ENVIRONMENTAL PROTECTION AGENCY SUBTITLE F: PUBLIC WATER SUPPLIES, CHAPTER II: ENVIRONMENTAL PROTECTION AGENCY, PARTS 651-654 TECHNICAL POLICY STATEMENTS, SECTION 653.119.</p> <p>24. WHENEVER POSSIBLE, A WATER MAIN MUST BE LAID AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN OR SEWER LINE. SHOULD LOCAL CONDITIONS EXIST WHICH WOULD PREVENT A LATERAL SEPARATION OF 10', A WATER MAIN MAY BE LAID CLOSER THAN 10' TO A STORM OR SANITARY SEWER PROVIDED THAT THE WATER MAIN INVERT IS AT LEAST 18" ABOVE THE CROWN OF THE SEWER, AND IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER. IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL OR VERTICAL SEPARATION AS DESCRIBED ABOVE, THEN THE SEWER MUST ALSO BE CONSTRUCTED OF WATER MAIN TYPE MATERIAL (DUCTILE IRON PIPE WITH SLIP-ON OR MECHANICAL JOINTS), PRESTRESSED REINFORCED CONCRETE PIPE WITH ASTM C-443 JOINTS, ETC.) AND PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.</p> <p>25. WHENEVER WATER MAINS MUST CROSS HOUSE SEWERS, STORM SEWERS, OR SANITARY SEWERS, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE INVERT OF THE WATER MAIN IS 18" ABOVE THE CROWN OF THE DRAIN OR SEWER. THIS VERTICAL SEPARATION MUST BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN 10' HORIZONTALLY OF ANY SEWER OR DRAIN CROSSING. THIS MUST BE MEASURED AS THE NORMAL DISTANCE FROM THE WATER MAIN TO THE DRAIN OR SEWER. IF IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED ABOVE OR IF IT IS NECESSARY FOR THE WATER MAIN TO PASS UNDER A SEWER OR DRAIN, THEN THE SEWER MUST BE CONSTRUCTED OF WATER MAIN TYPE MATERIAL (AS NOTED IN ITEM 24). THIS CONSTRUCTION MUST EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST 10'. IN MAKING SUCH CROSSINGS, CENTER A LENGTH OF WATER MAIN PIPE OVER/UNDER THE SEWER TO BE CROSSED SO THAT THE JOINTS WILL BE EQUIDISTANT FROM THE SEWER AND AS REMOTE THEREFROM AS POSSIBLE. WHERE A WATER MAIN MUST CROSS UNDER A SEWER, A VERTICAL SEPARATION OF 18" BETWEEN THE INVERT OF THE SEWER AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED, ALONG WITH MEANS TO SURROUND THE LARGER SIZED SEWER LINES TO PREVENT THEIR SETTLING AND BREAKING THE WATER MAIN.</p> <p>26. VALVE VAULTS SHALL BE ADJUSTED WITH A MAXIMUM OF 12" OF ADJUSTING RINGS. NO MORE THAN THREE ADJUSTING RINGS ARE ALLOWED. THERE IS A 2" MINIMUM RING SIZE AND ALL RINGS 4" AND LESS SHALL BE HDPE (H526 OF AASTH AND ASTM D1248.84). ANY REQUIRED ADJUSTMENT GREATER THAN 12" WILL NECESSITATE THE ADDITION OF A BARREL SECTION.</p> <p>27. HYDROSTATIC TESTS - THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTS IN ACCORDANCE WITH DIVISION IV, SECTION 41 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION, AND APPLICABLE PROVISIONS OF AWWA C600 AND C603. THE WATER MAINS SHALL BE PRESSURE TESTED AT 150 PSI. THE TEST PRESSURE SHALL NOT DROP MORE THAN 2 PSI FOR THE DURATION OF THE TEST. THE GAUGE SHALL BE OF GOOD QUALITY AND CONDITION, AND BE FULLY FLUID. THE GAUGE SHALL HAVE A LARGE ENOUGH RANGE FOR THE PRESSURE BEING TESTED AND SHALL BE CAPABLE OF READING A MINIMUM PRESSURE INCREMENT OF 1 PSI. ALLOWABLE LEAKAGE SHALL BE AS SET FORTH IN AWWA C600, LATEST EDITION. THE TESTING LENGTH SHALL BE LIMITED TO 1,000' IF MORE THAN 1,000' OF WATER MAIN IS TESTED, THE ALLOWABLE LEAKAGE WILL BE BASED UPON 1,000'. THE DURATION OF THE TEST SHALL BE FOR 2 HOURS MINIMUM.</p> <p>28. DISINFECTION OF THE WATER MAINS - UPON COMPLETION OF THE NEWLY LAID WATER MAINS, THE WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION PROCEDURE DESIGNATION, AWWA C651, LATEST EDITION. THE CONTRACTOR IS RESPONSIBLE FOR COLLECTING SAMPLES AND HAVING BACTERIOLOGICAL TESTING PERFORMED AS REQUIRED BY THE IEPA. THE CONTRACTOR SHALL FURNISH TO THE VILLAGE THE REQUIRED DOCUMENTATION, TEST RESULTS, ETC., REQUIRED BY THE IEPA FOR PLACING THE WATER MAINS OR SERVICE LINES IN SERVICE AND/OR SECURING AN OPERATING PERMIT.</p> <p>29. WATER VALVES AND FIRE HYDRANTS SHALL ONLY BE OPERATED BY VILLAGE OF SCHAUMBURG WATER DEPARTMENT PERSONNEL. PLEASE CONTACT THE SCHAUMBURG WATER DEPARTMENT AT 847/923-6612.</p> <p>30. IF THE CONTRACTOR PROPOSES TO USE AN EQUAL PRODUCT FOR ANY OF THE ITEMS CONTAINED IN THE VILLAGE OF SCHAUMBURG WATER MAIN CONSTRUCTION NOTES OR DETAILS, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FROM THE MANUFACTURER THAT THE PROPOSED PRODUCT MEETS THE VILLAGE STANDARDS TO THE VILLAGE OF SCHAUMBURG DIRECTOR OF PUBLIC WORKS. THE VILLAGE OF SCHAUMBURG DIRECTOR OF PUBLIC WORKS SHALL APPROVE THE PROPOSED EQUAL PRODUCT PRIOR TO USE BY THE CONTRACTOR.</p> <p>31. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL INSTALL INLET FILTER ON ALL OPEN LID PAVEMENT STRUCTURES AND CURB INLETS TRIBUTARY TO THE CONSTRUCTION AREA IN ACCORDANCE WITH SWPPP, SPECIAL PROVISIONS AND DETAILS.</p> <p>32. ALL DEWATERING SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.</p> <p>33. NO WATER SERVICE TAPS SHALL BE MADE PRIOR TO THE VILLAGE RECEIVING THE IEPA OPERATING PERMIT.</p> <p>34. ALL RESIDENT AND BUSINESSES SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO SHUTTING DOWN THEIR WATER SERVICE AND DRIVEWAY REMOVAL.</p> <p>35. WHEN EITHER A BUILDING SEWER OR PUBLIC SEWER IS DISTURBED AND SUBSEQUENTLY REPAIRED, ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL SPECIFICATIONS EVERY SERVICE AND MAIN REPAIR SHALL BE DOCUMENTED AND INSPECTED PRIOR TO BACKFILL. INSPECTION SHALL BE DONE AT THE TIME OF REPAIR ON SITE.</p>	<p>4.11.1 GENERAL</p> <p>THE PLANNED, UNPLANNED, OR EMERGENCY REPAIR OF A WATER MAIN OR APPURTENANCES (E.G., VALVE) IS TIME SENSITIVE-AN IMPORTANT GOAL IS TO MINIMIZE THE DISRUPTION OF WATER SERVICE TO CUSTOMERS. NONETHELESS, THE REPAIR WORK NEEDS TO BE ACCOMPLISHED USING SANITARY AND SAFE PROCEDURES BY WELL-TRAINED CREWS WITH PROPER SUPERVISION AND GUIDANCE. REFER TO PREVENTIVE AND CORRECTIVE MEASURES DESCRIBED PREVIOUSLY IN SEC. 4.8.2, 4.8.4, AND 4.8.5. FOLLOW ALL PERSONAL PROTECTION PRECAUTIONS WHEN WORKING WITH CHLORINE SOLUTIONS.</p> <p>4.11.2 BASIC DISINFECTION</p> <p>WORK SHOULD FOLLOW BASIC DISINFECTION AND CONTAMINATION PREVENTION PROCEDURES:</p> <ol style="list-style-type: none"> 1. PREVENTING CONTAMINANTS FROM ENTERING THE EXISTING PIPE DURING THE REPAIR SUCH AS BY MAINTAINING POSITIVE PRESSURE IN THE LEAKING PIPE UNTIL THE REPAIR SITE ON THE PIPE IS FULLY EXPOSED, BY MAINTAINING A DEWATERED TRENCH, AND BY KEEPING ALL PIPE MATERIALS BEING USED IN THE REPAIR IN A CLEAN AND SANITARY CONDITION. 2. INSPECTING AND CLEANING, FOLLOWED BY DISINFECTION OF SPRAYING OR SWABBING WITH A MINIMUM 1 PERCENT CHLORINE SOLUTION: <ol style="list-style-type: none"> a. EXPOSED PORTIONS OF EXISTING PIPE INTERIOR SURFACES b. PIPE MATERIALS USED IN THE REPAIR c. HANDHELD MATERIALS AND TOOLS USED TO MAKE THE REPAIR 3. AS APPROPRIATE, ADVISING AFFECTED CUSTOMERS TO ADEQUATELY FLUSH THEIR SERVICE LINES UPON RETURN TO SERVICE. <p>4.11.3 SELECTION OF DISINFECTION PROCEDURE</p> <p>THE DISINFECTION PROCEDURE SELECTED SHOULD BE DETERMINED BY THE CONDITIONS AND SEVERITY OF THE MAIN BREAK. MANY LEAKS OR BREAKS CAN BE REPAIRED UNDER CONTROLLED CONDITIONS WITHOUT DEPRESSURIZING THE WATER MAIN, SUCH AS WHEN APPLYING A CLAMP TO A SMALL CRACK OR HOLE, THUS PREVENTING CONTAMINANTS FROM ENTERING THE WATER SYSTEM. IN MOST OTHER SITUATIONS, THE WATER MAIN CAN BE MAINTAINED PRESSURIZED UNTIL THE BREAK SITE IS SECURED AND THE PIPE IS FULLY EXPOSED. SOME CIRCUMSTANCES (E.G., SEVER EROSION OF THE LOCAL ENVIRONMENT OR ICING OF THE ROADWAY) THAT IMPACT PUBLIC SAFETY MAY REQUIRE THAT WATER PRESSURE BE SUBSTANTIALLY REDUCED PRIOR TO EXPOSING THE PIPE IN THE AREA OF THE LEAK. IN SOME CASES, SITUATIONS BECOME CATASTROPHIC WHERE THERE IS A PIPE BLOWOUT AND A LOSS OF WATER PRESSURE PRIOR TO SHUTDOWN, REQUIRING DISINFECTION PROCEDURES EQUIVALENT TO THOSE OF A NEW MAIN INSTALLATION. THE PROCEDURES DESCRIBED IN SEC. 4.11.3.1 THROUGH 4.11.3.3 DESCRIBED THE CONTAMINATION RISKS AND THE ASSOCIATED DISINFECTION AND SAMPLING REQUIREMENTS FOR DIFFERENT SCENARIOS OF PIPELINE REPAIR. SPECIFIC SITUATIONS NOT CAPTURED BELOW NEED TO BE EVALUATED AND THE APPROPRIATE DISINFECTION AND SAMPLING METHODS FOLLOWED.</p> <p>NOTE THAT THE PROCEDURES EXPLAINED IN SEC. 4.11.3.1, 4.11.3.2, AND 4.11.3.3 FOR DISTRIBUTION MAINS MAY NEED TO BE MODIFIED FOR LARGE TRANSMISSION MAINS. LARGE MAINS MAY NEED ADDITIONAL WORK (SUCH AS HAVING A VALVE REPLACED OR REQUIRING A SPECIAL ORDER ON A CONNECTION), MAY BE OUT OF SERVICE FOR MORE THAN A DAY, OR MAY NOT BE ABLE TO ACCOMMODATE A SCOUR FLUSH. THESE MODIFICATIONS NEED TO BE MADE ON A CASE-BY-CASE BASIS BUT SHOULD STILL TAKE INTO ACCOUNT THE PROCEDURES OUTLINED IN ANSI/AWWA C651.</p> <p>4.11.3.1</p> <p>CONTROLLED PIPE REPAIR WITHOUT DEPRESSURIZATION. IN THIS SITUATION, ACTIVITIES ARE WELL CONTROLLED AND A FULL SHUTDOWN IS NOT NEEDED, THUS MAINTAINING POSITIVE PRESSURE TO THE AREA OF SHUTDOWN AND AROUND THE BREAK SITE AT ALL TIMES. THE REPAIR SITE IS EXPOSED AND THE TRENCH IS ADEQUATELY DEWATERED SO THAT THE REPAIR SITE CAN BE CLEANED AND DISINFECTED BY SPRAYING OR SWABBING WITH A MINIMUM 1 PERCENT CHLORINE SOLUTION. THE WATER MAIN IS THEN RETURNED TO SERVICE WITH FLUSHING TO OBTAIN THREE VOLUMES OF WATER TURNSOVERS, MAKING SURE THAT THE FLUSHED WATER IS VISUALLY CLEAR. NO BACTERIOLOGICAL TESTING IS NECESSARY. IT IS ADVISABLE TO CHECK FOR A TYPICAL SYSTEM CHLORIDE RESIDUAL, AND IF NOT FOUND, TO CONTINUE FLUSHING UNTIL RESIDUALS ARE RESTORED TO LEVELS MAINTAINED IN THE DISTRIBUTION SYSTEM BY THE WATER UTILITY-IF THE SYSTEM OPERATES WITH A DISINFECTANT RESIDUAL.</p> <p>4.11.3.2</p> <p>CONTROLLED PIPE REPAIR WITH DEPRESSURIZATION AFTER SHUTDOWN. IN THIS SITUATION, AFTER THE REPAIR SITE HAS BEEN EXPOSED AND SECURED FROM TRENCH SOIL/WATER CONTAMINATION, THE WATER MAIN IS DEPRESSURIZED BY A SHUTDOWN TO COMPLETE THE REPAIR. THE REPAIR SITE SHOULD BE CLEANED AND DISINFECTED BY SPRAYING OR SWABBING WITH A MINIMUM 1 PERCENT CHLORINE SOLUTIONS. THE WATER MAIN IS THEN RETURNED TO SERVICE WITH FLUSHING TO SCOUR THE PIPE AND OBTAIN THREE VOLUMES OF WATER TURNOVER, MAKING SURE THAT THE FLUSHED WATER IS VISUALLY CLEAR. IT IS ADVISABLE TO CHECK FOR A TYPICAL SYSTEM CHLORIDE RESIDUAL, AND IF NTO FOUND, TO CONTINUE FLUSHING UNTIL RESIDUALS ARE RESTORED TO LEVELS MAINTAINED IN THE DISTRIBUTION SYSTEM BY THE WATER UTILITY-IF THE SYSTEM OPERATES WITH A DISINFECTANT RESIDUAL.</p>	<p>WHEN THE EXISTING PIPE HAS TO BE OPENED AND THE INTERIOR SURFACES OF THE WATER SYSTEM EXPOSED TO THE ENVIRONMENT, ADDITIONAL PROCEDURES NEED TO BE FOLLOWED. THE EXISTING PIPE SHOULD BE INSPECTED AND CLEANED WITH THE HELP OF FLUSHING WATER INTO THE TRENCH, WHERE POSSIBLE, UNTIL THE FLUSH WATER RUNS VISUALLY CLEAR. THE REPAIR SITE SHOULD BE ACCESSIBLE AND THE TRENCH ADEQUATELY DEWATERED SO THAT THE REPAIR SITE CAN BE CLEANED AND DISINFECTED BY SPRAYING OR SWABBING WITH A MINIMUM 1 PERCENT CHLORINE SOLUTION. ADDITIONALLY, ANY ACCESSIBLE UPSTREAM AND DOWNSTREAM INTERIOR OF THE EXISTING PIPE SHOULD BE DISINFECTED BY SWABBING OR SPRAYING WITH A MINIMUM OF 1 PERCENT CHLORIDE SOLUTION. IF THE REPAIR REQUIRES A FULL PIPE SECTION REPLACEMENT, THE NEW PIPE SHOULD BE INSPECTED, CLEANED AND DISINFECTED FROM BOTH ENDS BY SWABBING WITH A MINIMUM 1 PERCENT CHLORIDE SOLUTION. THE WATER MAIN MAY THEN BE RETURNED TO SERVICE AFTER FLUSHING TO SCOUR THE PIPE AND OBTAIN THREE VOLUMES OF WATER TURNOVER. THE FLUSHED WATER SHOULD RUN VISUALLY CLEAR, HAVE A MEASURABLE CHLORIDE RESIDUAL IF THE SYSTEM OPERATES WITH A RESIDUAL, AND BE CHECKED WITH BACTERIOLOGICAL TESTING. THE PIPELINE MAY BE RETURNED TO SERVICE PRIOR TO OBTAINING BACTERIOLOGICAL RESULTS.</p> <p>4.11.3.3</p> <p>UNCONTROLLED PIPE BREAK WITH A LIKELIHOOD OF WATER CONTAMINATION OR LOSS OF SANITARY CONDITIONS DURING REPAIR. IN SITUATIONS IN WHICH THE EXISTING MAIN TO BE REPAIRED COULD NOT BE PROTECTED AND KEPT FREE OF CONTAMINATION AND THERE ARE OBVIOUS SIGNS OF CONTAMINATION (E.G., MUDDY TRENCH WATER FLOWING INTO THE BROKEN PIPE AND A LEAKING SEWER PIPE IN THE TRENCH, OR CATASTROPHIC PIPE FAILURE WHERE PIPE IS OPEN AND THERE IS A LIKELIHOOD THAT CONTAMINATION WAS DRAWN INTO THE ACTIVE SYSTEM) OR WHEN A CONTROLLED REPAIR SITUATION TURNS INTO A SITUATION IN WHICH THE INTERNAL PIPE AND WATER HAVE BECOME CONTAMINATED, THE PROCEDURES OUTLINES IN SEC. 4.3, 4.4, 4.5, OR 4.6 SHOULD BE FOLLOWED WHERE PRACTICAL. THE METHODS SPECIFY CHLORINE DOSES OF 25-300 MG/L; HOWEVER, SUCH LEVELS MAY PRESENT GREATER HARM IF THE LINE OR SERVICE CANNOT BE RELIABLY ISOLATED OR SHUT DOWN EXPOSURE OF CUSTOMERS TO HIGH CONCENTRATIONS OF CHLORINE CANNOT BE CONTROLLED. FREE CHLORINE RESIDUALS UP TO 4 MG/L (BASED ON ANNUAL AVERAGES) ARE ALLOWED BY FEDERAL DRINKING WATER REGULATIONS; THEREFORE THIS LEVEL IS SUGGESTED AS A MINIMUM TO BE MAINTAINED FOR AT LEAST 16 HR IN CONJUNCTION WITH FLUSHING, COLIFORM SAMPLING, AND ASSOCIATED CUSTOMER EDUCATION. SUCH SITUATIONS REQUIRE CAREFUL REVIEW AND NEED TO BALANCE THE PUBLIC HEALTH RISKS OF THE PIPELINE FAILURE AS WELL AS THE REPAIR PROCESS.</p> <p>WHERE PRACTICAL AND APPROPRIATE CONSIDERING THE RISKS OF PUBLIC EXPOSURE TO HIGH CONCENTRATIONS OF CHLORINE, IN ADDITION TO THE PROCEDURES PREVIOUSLY DESCRIBED IN THIS STANDARD, THE SECTION OF PIPE IN WHICH THE BREAK IS LOCATED SHALL BE ISOLATED, ALL SERVICE CONNECTIONS SHUT OFF, AND THE SECTION FLUSHED AND DISINFECTED. IF THE SLUG CHLORINATION METHOD IS EMPLOYED, THE DOSE MAY BE INCREASED TO AS MUCH AS 300 MG/L AND THE CONTACT TIME REDUCED TO AS LITTLE AS 15 MIN. AFTER CHLORINATION AND REPAIR, PERFORM SCOUR FLUSHING AS 3.0 FT/SEC (0.91 M/SEC) OR GREATER FOR A MINIMUM OF THREE PIPE VOLUMES AND CONTINUE UNTIL DISCOLORED WATER IS NOT OBSERVED AND THE CHLORINE RESIDUA IS RESTORED TO THE LEVELS MAINTAINED IN THE DISTRIBUTION SYSTEM BY THE WATER UTILITY.</p> <p>FOR LARGER-DIAMETER PIPE (12 IN. AND GREATER), IF A WATER VELOCITY OF 3.0 FT/SEC (0.91 M/SEC) CANNOT BE ACHIEVED, IT IS A DESIRABLE TO FLUSH AT THE MAXIMUM FLOW FOR THE MAIN UNTIL THREE PIPE VOLUMES HAVE BEEN DISPLACED BEFORE RETURNING THE MAIN TO SERVICE. THE FLUSHED WATER SHOULD RUN VISUALLY CLEAR, AND HAVE TYPICAL SYSTEM CHLORINE RESIDUAL (IF THE SYSTEM OPERATES WITH A DISINFECTANT RESIDUAL).</p> <p>FOR VERY-LARGE-DIAMETER PIPE (WHERE PERSONNEL MAY SAFELY ENTER THE PIPE), IN LIEU OF FLUSHING FOLLOWING DISINFECTION, THE INTERIOR OF THE PIPE AT THE REPAIR SITE MAY BE CLEARED BY SWEEPING OR HIGH PRESSURE WASH USING POTABLE WATER BEFORE DISINFECTION. STANDING WATER AND DEBRIS FROM THE CLEANING MUST BE REMOVED FROM THE PIPE PRIOR TO DISINFECTION. THE AFFECTED PIPE SHALL BE DISINFECTED BY SWABBING OR SPRAYING WITH A MINIMUM 1 PERCENT CHLORINE SOLUTION.</p> <p>AFTER FOLLOWING THE APPROPRIATE METHODS ABOVE, PRIOR TO RETURNING THE PIPE TO SERVICE, THE EFFICACY OF THE DISINFECTION PROCEDURE SHALL BE VERIFIED BY TESTING FOR THE ABSENCE OF COLIFORM BACTERIA. IF ALLOWED BY LOCAL REGULATIONS, THE PIPELINE MAY BE RETURNED TO LIMITED SERVICE PRIOR TO OBTAINING BACTERIOLOGICAL RESULTS WITH PROPER NOTIFICATION OF THE AFFECTED CUSTOMERS.</p> <p>4.11.4 TEMPORARY SERVICE LINES</p> <p>TEMPORARY WATER SERVICE LINES TO CUSTOMERS DURING MAIN REPAIR ACTIVITIES SHALL BE DISINFECTED PRIOR TO USE. MATERIALS SHALL MEET THE NSF/ANSI 61 CERTIFICATION FOR POTABLE WATER USE. DISINFECTION SHOULD BE ACCOMPLISHED BY THE PROCEDURES IN SEC. 4.4 OR 4.5 FOLLOWED BY SCOUR FLUSHING AT 3.0 FT/SEC (0.91 M/SEC) OR GREATER FOR A MINIMUM OF THREE PIPE VOLUMES (SEE TABLE 3), OR UNTIL THE WATER RUNS VISUALLY CLEAR AND PREFERABLY A MEASURABLE CHLORINE RESIDUAL IS RESTORED.</p>												
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VILLAGE OF SCHAUMBURG SPECIFICATIONS
SCHAUMBURG ROHRMAN KIA
 SCHAUMBURG, ILLINOIS

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A. REFERENCED SPECIFICATIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * VILLAGE OF SCHAUMBURG MUNICIPAL CODE;
 * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).
2. THE VILLAGE OF SCHAUMBURG ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS 0.0 FT.
2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND DO NOT REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)		
4-INCH TO 36-INCH	ASTM D-3350	ASTM D-3261, F-2620 (HEAT FUSION)
4-INCH TO 12-INCH	ASTM D-3035	ASTM D-3212, F-477 (GASKETED)
14-INCH TO 48-INCH		
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

TECHNICAL GUIDANCE MANUAL

MWRD GENERAL NOTES

10/13/2022

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NO.	DATE	REMARKS

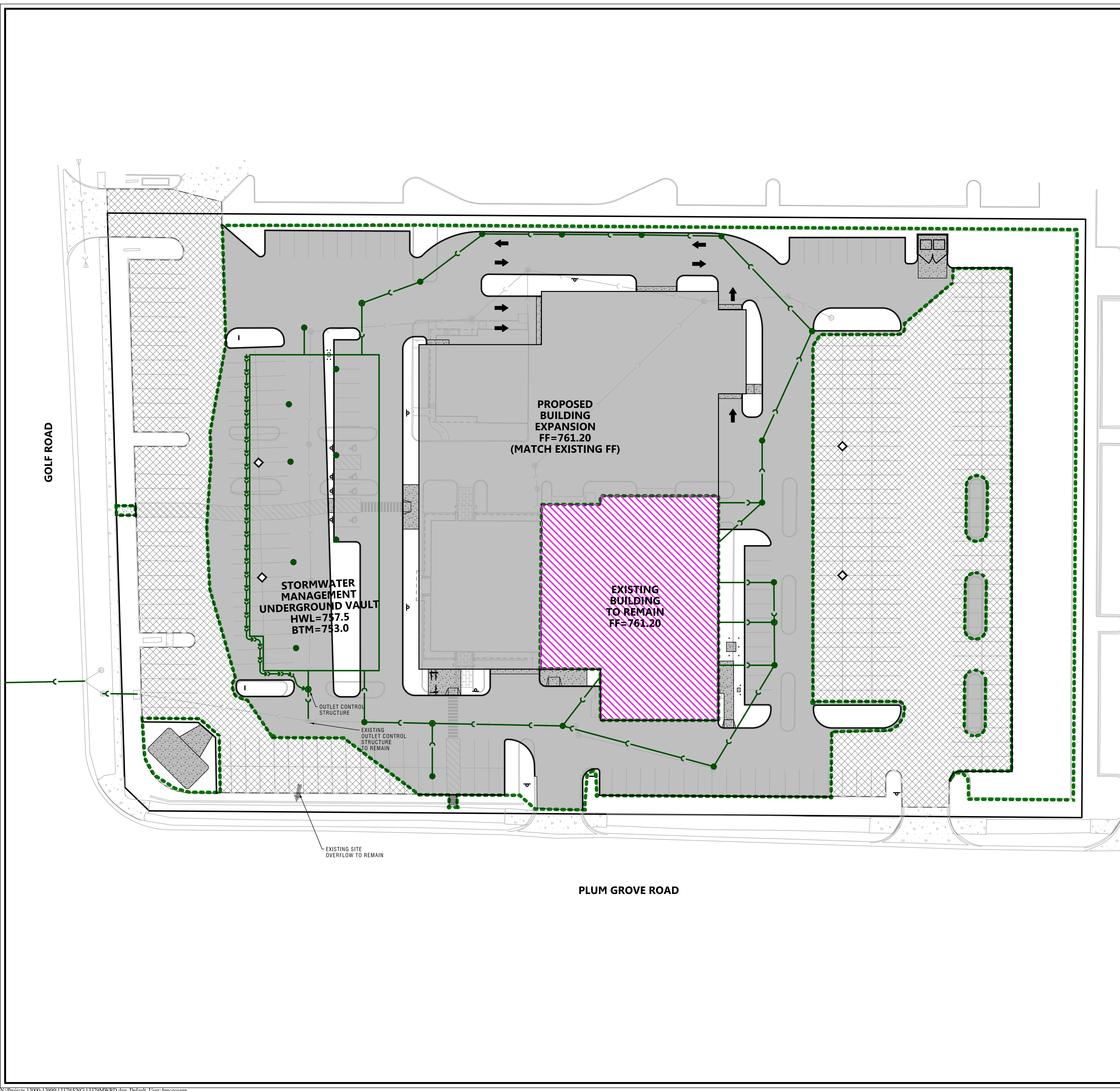
NO.	DATE	REMARKS
1.	11/21/24	ADDITIONAL #1 - PER CITY REVIEW
0.	10/30/24	ISSUED FOR BIDDING

MWRD-GN

SCHAUMBURG ROHRMAN KIA
SCHAUMBURG, ILLINOIS

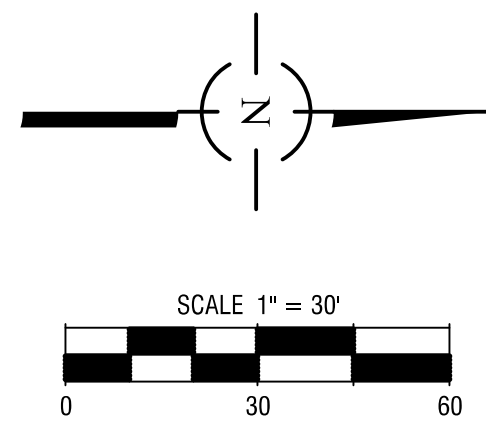
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DATE: 10/18/24
JOB NO. 13379
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LEGEND

- DISTURBED DEVELOPMENT AREA (3.14 AC.)
- NEW IMPERVIOUS AREA (2.44 AC)
- PERVIOUS AREA (0.70 AC)
- EXISTING BUILDING AREA (0.33 AC)
- MAINTENANCE/IN-KIND REPLACEMENT AREA



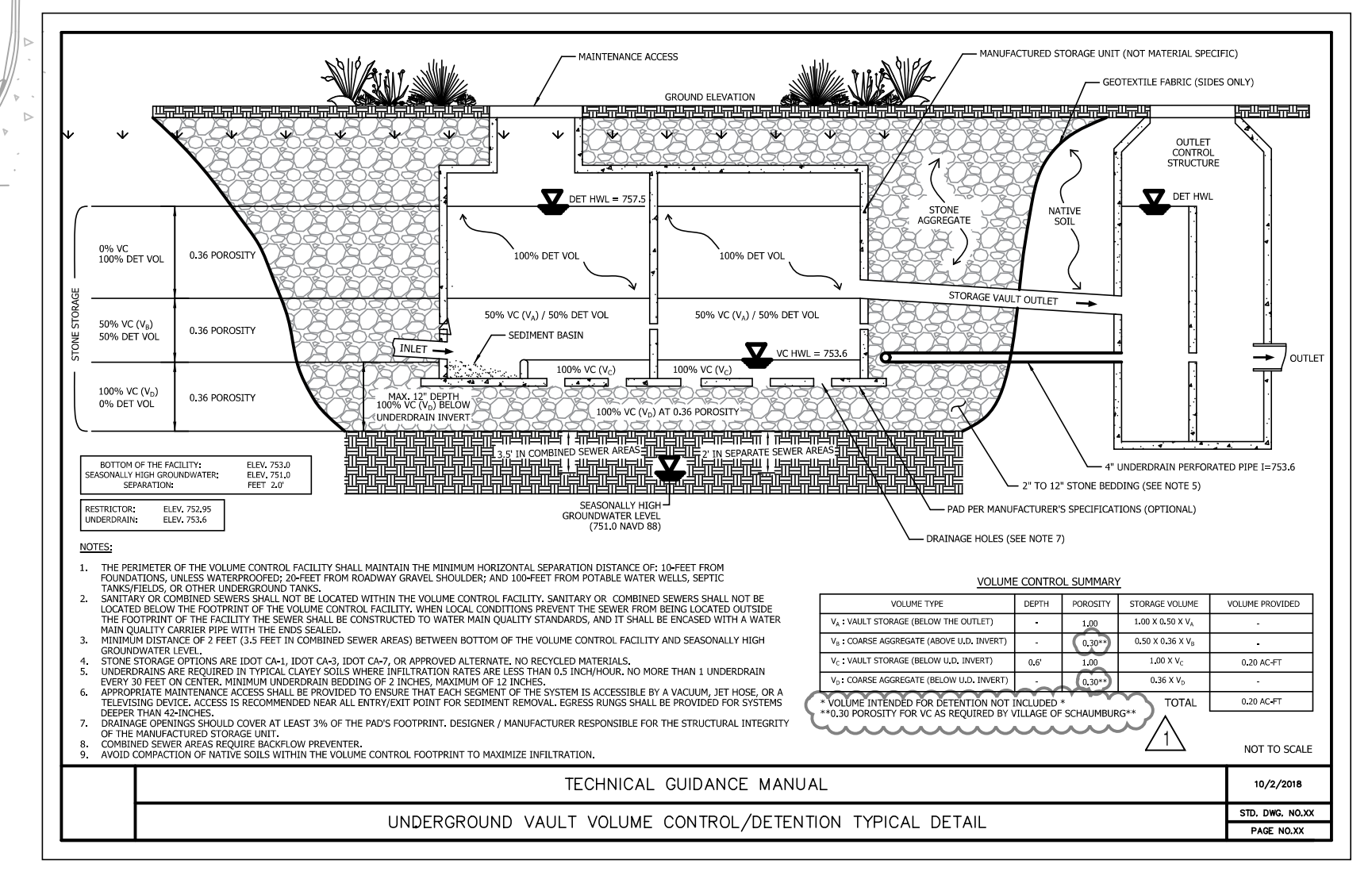
MWRD STORMWATER SUMMARY

EXISTING AREA SUMMARY:	PROPOSED AREA SUMMARY:	RELEASE RATE SUMMARY:
IMPERVIOUS = 2.90 AC	IMPERVIOUS = 2.44 AC	ACTUAL RELEASE RATE PER PERMIT 84-422 = 1.62 CFS
PERVIOUS = 0.31 AC	PERVIOUS = 0.77 AC	PRO RATED EXISTING RELEASE RATE = 0.31 CFS/ACRE
TOTAL AREA = 3.21 AC	TOTAL AREA = 3.21 AC	ALLOWABLE RELEASE RATE PER RATE MAP = 0.20 CFS/ACRE
RUNOFF C-FACTOR = 0.86	RUNOFF C-FACTOR = 0.79	RELEASE RATE FOR PROPOSED DEVELOPMENT AREA = 0.642 CFS (3.21 ACRES X 0.2 CFS/ACRE)
RELEASE RATE = 0.995 (0.31 CFS/AC)	RELEASE RATE = 0.642 (0.20 CFS/AC)	RELEASE RATE FOR REMAINING 2.08 ACRE SERVICE AREA = 0.623 CFS (2.01 ACRES X 0.31 CFS/ACRE)
DET. VOL. REQ'D = 0.6111 AC-FT (MRM TP-40)	DET. VOL. REQ'D = 1.045 AC-FT (MRM BUL 75)	ALLOWABLE RELEASE RATE FOR PROPOSED RESTRICTOR = 1.27 CFS (0.642 CFS + 0.623 CFS)
DETENTION SUMMARY:		
DETENTION VOLUME REQ'D = 0.94 AC-FT (MWRD PERMIT #84-422)		
REDEV. DETENTION VOL. REQ'D = 0.44 AC-FT (INCREMENTAL)		
VOLUME CONTROL CREDIT = -0.20 AC-FT		
TOTAL DETENTION VOLUME REQ'D = 1.18 AC-FT		
ADDITIONAL 10% PER VILLAGE = 0.12 AC-FT		
TOTAL STORAGE REQ'D = 1.50 AC-FT		
TOTAL STORAGE PROVIDED = 1.58 AC-FT		
BMP VOLUME SUMMARY:		
VOLUME CONTROL PROVIDED = 0.20 AC-FT		
VOLUME CONTROL REQUIRED = 0.20 AC-FT		

MAINTENANCE PLAN FOR ROHRMAN KIA

THE OWNER OF BOB ROHRMAN KIA, WITH FACILITIES AS SHOWN ON THIS EXHIBIT, SHALL ASSUME RESPONSIBILITY FOR THE FOLLOWING PERPETUAL MAINTENANCE ACTIVITIES:

- DETENTION SYSTEM**
 - AS NEEDED:
 - REMOVAL OF SEDIMENT AND DEBRIS FROM SUBSURFACE VAULT SEDIMENTATION CHAMBER WHEN THE SEDIMENT ZONE IS FULL AS WELL AS FROM INLET AND OUTLET PIPES. SEDIMENTS SHOULD BE TESTED FOR TOXICANTS IN COMPLIANCE WITH APPLICABLE DISPOSAL REQUIREMENTS IF LAND USES IN THE CATCHMENT INCLUDE COMMERCIAL OR INDUSTRIAL ZONES, OR IF INDICATIONS OF POLLUTION ARE NOTICED.
 - QUARTERLY:
 - FLOATING DEBRIS SHOULD BE REMOVED.
 - ONCE PER YEAR:
 - INSPECTION OF SUBSURFACE VAULT AND CONTROL STRUCTURES.
- OUTLET CONTROL STRUCTURE**
 - INSPECT RESTRICTOR AND REMOVE DEBRIS IF CLOGGED OR DISCHARGED REDUCED.
- VEGETATED AREAS**
 - NEED FOR PLANTING, RESEEDING, OR SODDING. SUPPLEMENT ALTERNATIVE NATIVE VEGETATION IF A SIGNIFICANT PORTION HAS NOT ESTABLISHED (50% OF THE SURFACE AREA AFTER SECOND GROWING SEASON). RESEED WITH ALTERNATIVE NATIVE GRASS SPECIES IF ORIGINAL GRASS COVER HAS NOT SUCCESSFULLY ESTABLISHED.
 - CHECK FOR INVASIVE VEGETATION. REMOVE WHEN POSSIBLE. REGULAR MOWING TO CONTROL VEGETATION; IT IS RECOMMENDED THAT NATIVE VEGETATION REMAIN UNCLIPPED.
 - DEAD OR DAMAGED NON-NATIVE GRASSY AREAS - REPAIR WITH SEEDING WITH FERTILIZATION OR SEEDING WITH MULCH.
 - ALL VEGETATION MUST BE MAINTAINED PER THE APPROVED PLANTING PLAN.
- STORM SEWERS**
 - VISUALLY INSPECT PIPES BY REMOVING MANHOLE LIDS, MAKE REPAIRS AS NECESSARY.
 - CHECK FOR SILTATION DEPOSITS AT INLETS AND CATCH BASINS AS NECESSARY.
- SANITARY SEWER (QUALIFIED SEWER)**
 - THE SANITARY SEWERS MUST BE MAINTAINED BY THE OWNER PER MWRD'S OPERATION AND MAINTENANCE MANUAL FOR SEPARATE SANITARY SEWER SYSTEMS. SEWERS SHALL BE CLEANED ON A PERFORMANCE BASIS ANNUALLY.



MWRD WMO PLAN

SCHAUMBURG ROHRMAN KIA
SCHAUMBURG, ILLINOIS

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