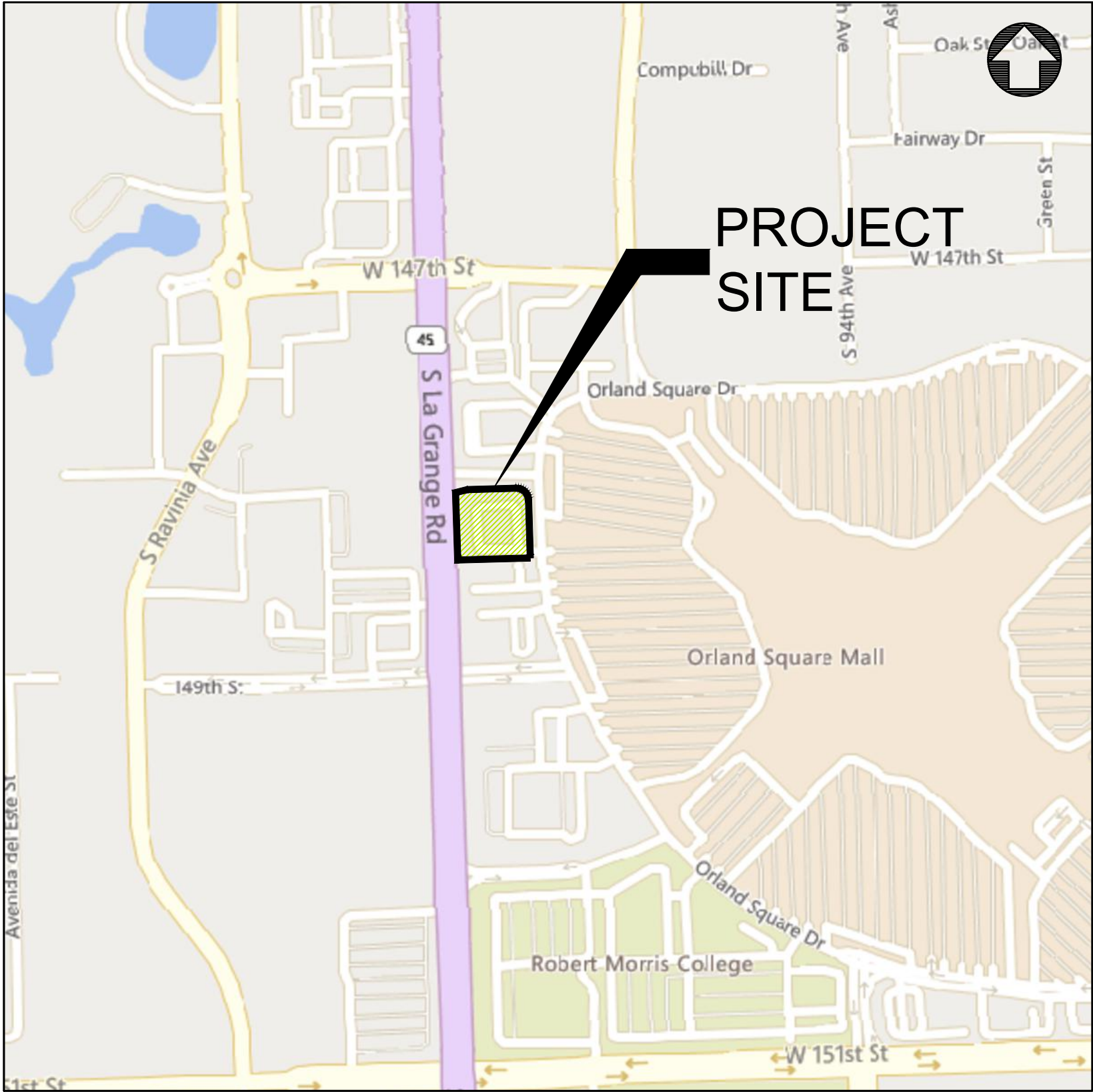


FINAL ENGINEERING FOR
PORTILLO'S - ORLAND PARK
20 ORLAND SQUARE DR. ORLAND PARK, IL 60462

LOCATION MAP

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SECTION 10, TOWNSHIP 36N, RANGE 12E

ENGINEER
CAGE ENGINEERING
2200 CABOT DRIVE, SUITE 325
LISLE, IL 60532
EMAIL: ABRUDER@CAGECIVIL.COM
AARON BRUDER, P.E.

BENCHMARK INFORMATION

SOURCE BENCHMARK: NGS MONUMENT
DESIGNATION - DK 2005
PID - DN4690
STATE/COUNTY - IL / WILL
USGS QUAD - MOKENA (2018)
ELEVATION = 729.45 (NAVD88)

*SURVEY COMPLETED BY ASM CONSULTANTS, INC.
ON 10-25-2023

EXISTING LEGEND		PROPOSED LEGEND	
	EXISTING TREE		CURB & GUTTER
	CURB & GUTTER		BARRIER CURB
	EXISTING BUILDING		REVERSE PITCH CURB & GUTTER
	PCC SIDEWALK		DEPRESSED CURB & GUTTER
	GAS SERVICE		PROPOSED BUILDING
	ELECTRIC SERVICE		STANDARD DUTY ASPHALT PAVEMENT
	STORM SEWER		HEAVY DUTY CONCRETE PAVEMENT
	SANITARY SEWER		PCC SIDEWALK
	WATER MAIN		DETECTABLE WARNING TILE
	CABLE LINE		STORM SEWER
	OVERHEAD UTILITY LINE		SANITARY SEWER
	COMMUNICATION LINE		GAS SERVICE (BY OTHERS)
	FIBER OPTIC LINE		ELECTRIC SERVICE (BY OTHERS)
	FENCE		WATER MAIN
	STORM STRUCTURE		STORM STRUCTURE
	SANITARY MANHOLE		DOWNSPOUT CONNECTION
	CLEANOUT		SANITARY MANHOLE
	WATER METER		CLEANOUT
	VALVE VAULT		VALVE BOX
	VALVE BOX		PARKING LOT LIGHT
	HYDRANT		TOP OF SIDEWALK GRADE
	GAS METER		TOP OF CURB GRADE
	ELECTRIC METER		PAVEMENT GRADE
	PARKING LOT LIGHT		GROUND GRADE
	UTILITY POLE		MAJOR CONTOUR
	GUY WIRE		MINOR CONTOUR
	TRANSFORMER		
	FIBER OPTIC BOX		
	FIBER OPTIC PEDESTAL		
	CABLE PEDESTAL		
	PHONE PEDESTAL		
	ELECTRIC PEDESTAL		
	MAJOR CONTOUR		
	MINOR CONTOUR		

DRAINAGE CERTIFICATE

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

05/08/2024

DATE

ENGINEER

2200 CABOT DRIVE
SUITE 325
LISLE, IL 60532
P: 630.598.0007
WWW.CAGECIVIL.COM

CAGE
CIVIL ENGINEERING

AARON J. BRUDER
062-071413
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
Signed: 05/08/24
Expires: 11/30/25

REVISIONS

05/08/2024
ISSUE FOR PERMIT
THIS DRAWING AND THESE REVISIONS ARE THE PROPERTY OF CAGE ENGINEERING, INC. NO PART OF THIS WORK MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION FROM CAGE ENGINEERING, INC.

PORTILLO'S HOT DOGS
PORTILLO'S - ORLAND PARK
20 ORLAND SQUARE DR.
ORLAND PARK, IL 60462

PROJ NO: 230210

ENG: SJS

DATE: 02/23/2024

SHEET TITLE

SITE
LOCATION
MAP & CIVIL
LEGEND

SHEET NUMBER

C0.0

1 OF 15

1. ALL WORK SHALL BE IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (HEREIN AFTER REFERRED TO AS STANDARD SPECIFICATIONS) ADOPTED APRIL 1, 2022 AND SUPPLEMENTAL SPECIFICATIONS. WITHIN THE STANDARD SPECIFICATIONS, ARTICLES 105.01, 105.09, 105.10, 105.11, 105.12, 105.13 AND SECTION 109 SHALL NOT BE INCORPORATED INTO THIS CONTRACT.
2. SCOPE OF WORK: THE PROPOSED IMPROVEMENTS CONSIST OF SUPPLYING ALL THE NECESSARY LABOR, MATERIAL AND EQUIPMENT TO SATISFACTORILY CONSTRUCT AND INSTALL ALL IMPROVEMENTS ACCORDING TO THE PLANS DESIGNATED HEREIN.
3. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO LOCATE AND PROTECT ALL UNDERGROUND FACILITIES/UTILITIES DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS AND CONTACT THE OWNER. ANY DAMAGE TO ANY UTILITIES SHALL BE PROMPTLY REPORTED TO THE OWNER. REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE UNDERGROUND UTILITIES SHOWN HEREIN ARE APPROXIMATE AND BASED ON THE ACTUAL LOCATION OF SURFACE STRUCTURES AND PLANS PROVIDED BY THE OWNER. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS.
4. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED HAZARD WARNING LIGHTS, DELINEATOR FENCE, AND OTHER ASSOCIATED FACILITIES AS REQUIRED FOR OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCK PILES, AND PARKED CONSTRUCTION EQUIPMENT THAT MAY POSE A POTENTIAL HAZARD AS PART OF THE DAILY OPERATIONS AT THIS SITE. CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY.
5. CONTRACTOR SHALL CONTINUOUSLY COMPARE ALL LINES, GRADES, AND OTHER INFORMATION APPEARING ON THE PLANS WITH THE ACTUAL LINES, GRADES, AND SITE CONDITIONS. ANY DISCREPANCIES THAT MAY AFFECT THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY REPORTED TO THE OWNER AND ENGINEER IN WRITING FOR DISPOSITION BEFORE CONTRACTOR PROCEEDS WITH THE WORK. CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE WORK COMPLETED PRIOR TO THE REPORT TO THE OWNER AND ENGINEER, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION OF THE WORK PRIOR TO THE REPORT TO THE OWNER AND ENGINEER.
6. CONTRACTOR PARKING AND LAYDOWN AREAS SHALL BE COORDINATED WITH THE OWNER.
7. PRIOR TO PERFORMING ANY WORK IN OR ON THE RIGHT OF WAY OF ANY CITY OR STATE ROADWAY, THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF ORLAND PARK PUBLIC WORKS, AT LEAST 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL ERECT WARNING SIGNS AND BARRICADES TO PROTECT THE TRAVELING PUBLIC AND HIS WORKERS. THE SIGNING AND BARRICADED SHALL CONFORM TO THE APPROPRIATE APPLICATIONS OUTLINED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR AS OTHERWISE DIRECTED BY THE CITY / STATE TRAFFIC ENGINEER. IF PERMITS ARE REQUIRED TO CONDUCT THE WORK, THE CONTRACTOR SHALL SECURE THE PERMITS AND SUPPLY THEM TO THE OWNER AT NO ADDITIONAL COST. ALL FULL WIDTH LAINE CLOSURES, PARTIAL LAINE CLOSURES, AND CONSTRUCTION ADJACENT TO PAVEMENT SHALL BE IDENTIFIED, SIGNED, AND BARRICADES ERECTED IN CONFORMANCE WITH THE APPLICABLE ARTICLES OF SECTION 701 OF THE STANDARD SPECIFICATIONS AND THE MUNICIPALITY'S REQUIREMENTS. ALL TRAFFIC PROTECTION, BOTH ONSITE AND OFFSITE, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
8. CONTRACTOR SHALL REMOVE EARTHEN MATERIALS, EXISTING SURFACES, AND STRUCTURES AS REQUIRED. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OFF-SITE AND SHALL BE INCIDENTAL TO THE CONTRACT.
9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, UNLESS NOTED. THIS WILL INCLUDE BUT NOT BE LIMITED TO MUNICIPAL BUILDING PERMIT. THE OWNER WILL SECURE THE N.P.D.E.S. PERMIT. THE CONTRACTOR SHALL PROVIDE ANY FINANCIAL SURETIES REQUIRED AS PART OF ANY PERMIT.
10. WHEN CONCRETE IS PLACED ABUTTING STRUCTURES, FOUNDATIONS OR EXISTING SIDEWALKS, A BOND BREAKER CONSISTING OF 1" P.P.F. AND ELASTOMERIC JOINT SEALANT SHALL BE USED FULL DEPTH UNLESS OTHERWISE NOTED.
11. MAXIMUM CONTRACTOR JOINT SPACING ON CONCRETE CURB AND GUTTER OR CONCRETE GUTTER SHALL NOT EXCEED 15' AND SAWCUT SHALL BE AT LEAST ONE AND ONE-HALF (1-1/2) INCHES DEEP. EXPANSION JOINTS SHALL BE DOWELED AND SPACED NO MORE THAN SIXTY (60) FEET ON CENTER, AND AT TANGENT POINTS OF ALL RADII, AND TWO (2) NO. 4 REINFORCING BARS SHALL BE PLACED CONTINUOUSLY BETWEEN EXPANSION JOINTS.
12. SIDEWALK RAMPS FOR ADA SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN HEREIN. DETECTABLE WARNINGS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
13. HOT-MIX ASPHALT PAVEMENT PATCHING SHALL BE IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING ELECTRONIC AS-BUILT DRAWINGS, FOR UTILITIES AND DETENTION AREAS, TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROJECT ACCEPTANCE.
15. CONSTRUCTION STAKING, LAYOUT, AND GRADING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR USING THE BASIC TOPOGRAPHIC SURVEY CONTROLS PROVIDED IN THE PLANS. CONTRACTOR SHALL VERIFY SURVEY CONTROLS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES IN THE SURVEY CONTROLS SHALL BE REPORTED TO THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION. ANY ADDITIONAL SURVEY CONTROLS REQUIRED FOR CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. CONTRACTOR SHALL COORDINATE ALL UTILITY LAINE CROSSINGS TO ENSURE ALL PIPES MAINTAIN MINIMUM COVER, MINIMUM CLEARANCES, AND PROPER SEPARATION. GRAVITY LINES SHALL HAVE PRECEDENCE OVER PRESSURIZED LINES.
17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ITEMS INCORPORATED INTO THE WORK FOR ENGINEER REVIEW AND APPROVAL A MINIMUM OF 4 WEEKS PRIOR TO ORDERING.
18. REFERENCES TO "INSPECTION" OR "INSPECTOR" IN THE SPECIFICATIONS SHALL NOT CREATE, IMPOSE, OR GIVE RISE TO ANY DUTY OWED BY THE OWNER OR ENGINEER TO THE CONTRACTOR, ANY SUBCONTRACTOR, OR ANY SUPPLIER. ALL IMPROVEMENTS SHALL BE SUBJECT TO INSPECTION BY A DULY AUTHORIZED AND QUALIFIED OWNER'S REPRESENTATIVE BOTH DURING THE COURSE OF CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE. THE INSPECTOR SHALL HAVE AUTHORITY OVER MATERIALS OF CONSTRUCTION, METHODS OF CONSTRUCTION AND WORKSMANSHIP TO ENSURE COMPLIANCE WITH WORKING DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE FOR REASONABLE TESTS AND PROOF OF QUALITY OF MATERIALS AS REQUESTED BY THE INSPECTOR. UPON DUE CAUSE, WHICH SHALL INCLUDE WEATHER CONDITIONS, WORKSMANSHIP OR NON-ADHERENCE TO THE APPROVED PLANS AND SPECIFICATIONS, THE INSPECTOR SHALL HAVE THE AUTHORITY TO STOP CONSTRUCTION.
19. WHERE SECTION, SUB-SECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
20. ALL AGGREGATE BASE COURSE SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY.
21. ALL AGGREGATE BASE AREAS TO BE PAVED (PAVEMENT, SIDEWALK, CURB, OR STRUCTURES) SHALL BE PROOF-ROLLED WITH SEVERAL PASSES OF A FULLY LOADED DUMP TRUCK. CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER, & VILLAGE 24 HOURS PRIOR TO PROOF ROLL AND SHALL MAKE ALL CORRECTIONS TO PROVIDE A SATISFACTORY SUBGRADE.
22. ANY UNCONTROLLED CRACKING THAT OCCURS IN CONCRETE PAVEMENT, SIDEWALK, CURB, OR CURB AND GUTTER PRIOR TO FINAL ACCEPTANCE SHALL BE ROUTED OR SAWED AND SEALED ACCORDING TO THE STANDARD SPECIFICATIONS.
23. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY WORK IN AND AROUND UTILITY-OWNED INFRASTRUCTURE AND MAKE THEM AWARE OF WORK TO BE PERFORMED.

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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 ORLAND PARK 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 ORLAND PARK 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 <u>N/A</u> 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 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: <td> PIPE MATERIAL VITRIFIED CLAY PIPE ASTM C-700 ASTM C-425 PIPE SPECIFICATIONS ASTM C-700 ASTM C-425 JOINT SPECIFICATIONS ASTM C-425 ASTM C-443 </td> <td> PIPE MATERIAL REINFORCED CONCRETE SEWER PIPE ASTM C-76 ASTM C-443 PIPE SPECIFICATIONS ASTM C-76 ASTM C-564 JOINT SPECIFICATIONS ASTM C-564 ASTM C-564 </td> <td> PIPE MATERIAL CAST IRON SOIL PIPE ASTM A-74 ASTM C-564 PIPE SPECIFICATIONS ASTM A-74 ASTM C-564 JOINT SPECIFICATIONS ASTM C-564 ASTM C-564 </td> <td> PIPE MATERIAL DUCTILE IRON PIPE ANSI A21.51 ANSI A21.11 PIPE SPECIFICATIONS ANSI A21.51 ANSI A21.11 JOINT SPECIFICATIONS ANSI A21.11 ANSI A21.11 </td> <td> PIPE MATERIAL POLYVINYL CHLORIDE (PVC) PIPE ASTM D-3034 ASTM D-3212 PIPE SPECIFICATIONS ASTM D-3034 ASTM D-3212 JOINT SPECIFICATIONS ASTM D-3212 ASTM D-3212 </td> <td> PIPE MATERIAL 6-INCH TO 15-INCH DIAMETER SDR 26 ASTM F-679 ASTM D-3212 PIPE SPECIFICATIONS ASTM F-679 ASTM D-3212 JOINT SPECIFICATIONS ASTM D-3212 ASTM D-3212 </td> <td> PIPE MATERIAL 18-INCH TO 27-INCH DIAMETER F/DY=46 ASTM D-3350 ASTM D-3261, F-2620 (HEAT FUSION) PIPE SPECIFICATIONS ASTM D-3350 ASTM D-3212, F-477 (GASKETED) JOINT SPECIFICATIONS ASTM D-3261, F-2620 (HEAT FUSION) ASTM D-3212, F-477 (GASKETED) </td> <td> PIPE MATERIAL HIGH DENSITY POLYETHYLENE (HDPE) ASTM D-3350 ASTM D-3261, F-2620 (HEAT FUSION) PIPE SPECIFICATIONS ASTM D-3350 ASTM D-3212, F-477 (GASKETED) JOINT SPECIFICATIONS ASTM D-3261, F-2620 (HEAT FUSION) ASTM D-3212, F-477 (GASKETED) </td> <td> PIPE MATERIAL WATER MAIN QUALITY PVC ASTM D-2241 ASTM D-3139 PIPE SPECIFICATIONS ASTM D-2241 ASTM D-3139 JOINT SPECIFICATIONS ASTM D-3139 ASTM D-3139 </td> <td> PIPE MATERIAL 4-INCH TO 36-INCH ASTM D-2241 ASTM D-3139 PIPE SPECIFICATIONS ASTM D-2241 ASTM D-3139 JOINT SPECIFICATIONS ASTM D-3139 ASTM D-3139 </td> <td> PIPE MATERIAL 4-INCH TO 12-INCH AWWA C900 ASTM D-3139 PIPE SPECIFICATIONS AWWA C900 ASTM D-3139 JOINT SPECIFICATIONS ASTM D-3139 ASTM D-3139 </td> <td> PIPE MATERIAL 14-INCH TO 48-INCH AWWA C905 ASTM D-3139 PIPE SPECIFICATIONS AWWA C905 ASTM D-3139 JOINT SPECIFICATIONS ASTM D-3139 ASTM D-3139 </td> <td> PIPE MATERIAL POLYPROPYLENE (PP) PIPE ASTM F-2736 D-3212, F-477 PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 12-INCH TO 24-INCH DOUBLE WALL ASTM F-2736 D-3212, F-477 PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 30-INCH TO 60-INCH TRIPLE WALL ASTM F-2764 D3212, F-477 PIPE SPECIFICATIONS ASTM F-2764 D3212, F-477 JOINT SPECIFICATIONS D3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL E. EROSION AND SEDIMENT CONTROL PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT). PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 19. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td> <td> PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477 </td>	PIPE MATERIAL VITRIFIED CLAY PIPE ASTM C-700 ASTM C-425 PIPE SPECIFICATIONS ASTM C-700 ASTM C-425 JOINT SPECIFICATIONS ASTM C-425 ASTM C-443	PIPE MATERIAL REINFORCED CONCRETE SEWER PIPE ASTM C-76 ASTM C-443 PIPE SPECIFICATIONS ASTM C-76 ASTM C-564 JOINT SPECIFICATIONS ASTM C-564 ASTM C-564	PIPE MATERIAL CAST IRON SOIL PIPE ASTM A-74 ASTM C-564 PIPE SPECIFICATIONS ASTM A-74 ASTM C-564 JOINT SPECIFICATIONS ASTM C-564 ASTM C-564	PIPE MATERIAL DUCTILE IRON PIPE ANSI A21.51 ANSI A21.11 PIPE SPECIFICATIONS ANSI A21.51 ANSI A21.11 JOINT SPECIFICATIONS ANSI A21.11 ANSI A21.11	PIPE MATERIAL POLYVINYL CHLORIDE (PVC) PIPE ASTM D-3034 ASTM D-3212 PIPE SPECIFICATIONS ASTM D-3034 ASTM D-3212 JOINT SPECIFICATIONS ASTM D-3212 ASTM D-3212	PIPE MATERIAL 6-INCH TO 15-INCH DIAMETER SDR 26 ASTM F-679 ASTM D-3212 PIPE SPECIFICATIONS ASTM F-679 ASTM D-3212 JOINT SPECIFICATIONS ASTM D-3212 ASTM D-3212	PIPE MATERIAL 18-INCH TO 27-INCH DIAMETER F/DY=46 ASTM D-3350 ASTM D-3261, F-2620 (HEAT FUSION) PIPE SPECIFICATIONS ASTM D-3350 ASTM D-3212, F-477 (GASKETED) JOINT SPECIFICATIONS ASTM D-3261, F-2620 (HEAT FUSION) ASTM D-3212, F-477 (GASKETED)	PIPE MATERIAL HIGH DENSITY POLYETHYLENE (HDPE) ASTM D-3350 ASTM D-3261, F-2620 (HEAT FUSION) PIPE SPECIFICATIONS ASTM D-3350 ASTM D-3212, F-477 (GASKETED) JOINT SPECIFICATIONS ASTM D-3261, F-2620 (HEAT FUSION) ASTM D-3212, F-477 (GASKETED)	PIPE MATERIAL WATER MAIN QUALITY PVC ASTM D-2241 ASTM D-3139 PIPE SPECIFICATIONS ASTM D-2241 ASTM D-3139 JOINT SPECIFICATIONS ASTM D-3139 ASTM D-3139	PIPE MATERIAL 4-INCH TO 36-INCH ASTM D-2241 ASTM D-3139 PIPE SPECIFICATIONS ASTM D-2241 ASTM D-3139 JOINT SPECIFICATIONS ASTM D-3139 ASTM D-3139	PIPE MATERIAL 4-INCH TO 12-INCH AWWA C900 ASTM D-3139 PIPE SPECIFICATIONS AWWA C900 ASTM D-3139 JOINT SPECIFICATIONS ASTM D-3139 ASTM D-3139	PIPE MATERIAL 14-INCH TO 48-INCH AWWA C905 ASTM D-3139 PIPE SPECIFICATIONS AWWA C905 ASTM D-3139 JOINT SPECIFICATIONS ASTM D-3139 ASTM D-3139	PIPE MATERIAL POLYPROPYLENE (PP) PIPE ASTM F-2736 D-3212, F-477 PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 12-INCH TO 24-INCH DOUBLE WALL ASTM F-2736 D-3212, F-477 PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 30-INCH TO 60-INCH TRIPLE WALL ASTM F-2764 D3212, F-477 PIPE SPECIFICATIONS ASTM F-2764 D3212, F-477 JOINT SPECIFICATIONS D3212, F-477 D3212, F-477	PIPE MATERIAL 8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL E. EROSION AND SEDIMENT CONTROL PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT). PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 19. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477	PIPE MATERIAL 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. PIPE SPECIFICATIONS ASTM F-2736 D-3212, F-477 JOINT SPECIFICATIONS D-3212, F-477 D3212, F-477
TECHNICAL GUIDANCE MANUAL	10/13/2022																																																	
	STD. DWG. NO.18																																																	
	PAGE NO. 19																																																	
MWRD GENERAL NOTES																																																		

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CAGE

CIVIL ENGINEERING

ARON J. BRIDEX

062-071413

LICENSED PROFESSIONAL ENGINEER

OF ILLINOIS

Signed: 05/08/24

Expires: 11/30/25

REVISIONS

05/08/2024

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PORTILLO'S HOT DOGS

PORTILLO'S - ORLAND PARK

20 ORLAND SQUARE DR.
ORLAND PARK, IL 60462

PROJ NO: 230210

ENG: SJS

DATE: 02/23/2024

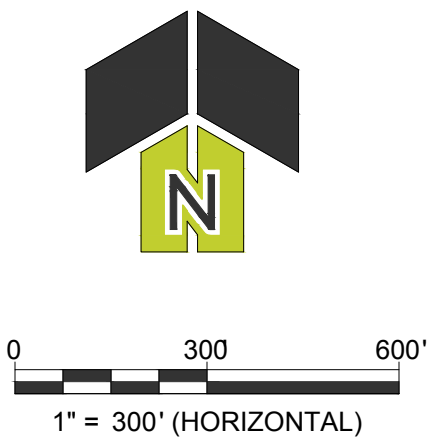
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MWRD GENERAL NOTES & SPECIFICATIONS

SHEET NUMBER

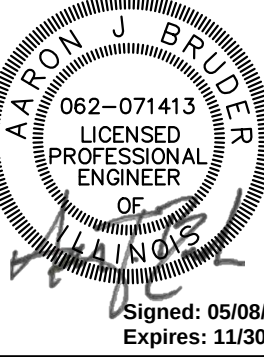
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PROFESSIONAL
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OF
ILLINOIS
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Expires: 11/30/25

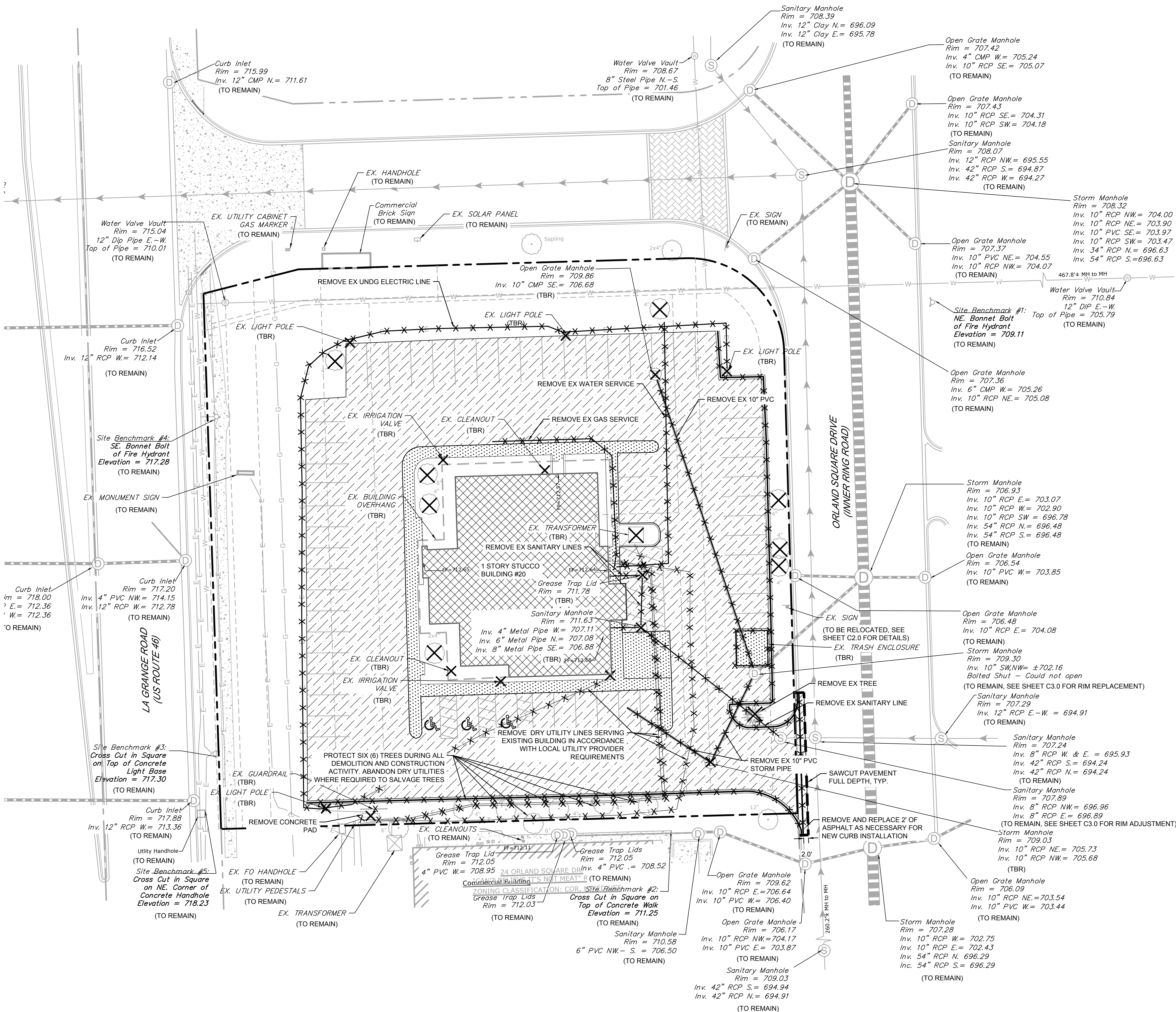
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20 ORLAND SQUARE DR
ORLAND PARK, IL 60462

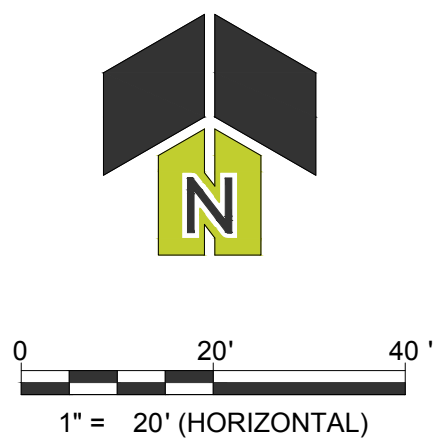
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DATE: 02/23/2024
SHEET TITLE
**UTILITY
ROUTING MAP**

SHEET NUMBER
C0.3
4 OF 15



DEMOLITION LEGEND

	BUILDING DEMOLITION
	ASPHALT PAVEMENT REMOVAL, FULL DEPTH
	CONCRETE PAVEMENT / SIDEWALK REMOVAL, FULL DEPTH
	SAWCUT PAVEMENT, FULL DEPTH
	CURB & GUTTER REMOVAL
	UTILITY REMOVAL
	TREE/BUSH REMOVAL
	UTILITY STRUCTURE REMOVAL
	(TBR) TO BE REMOVED



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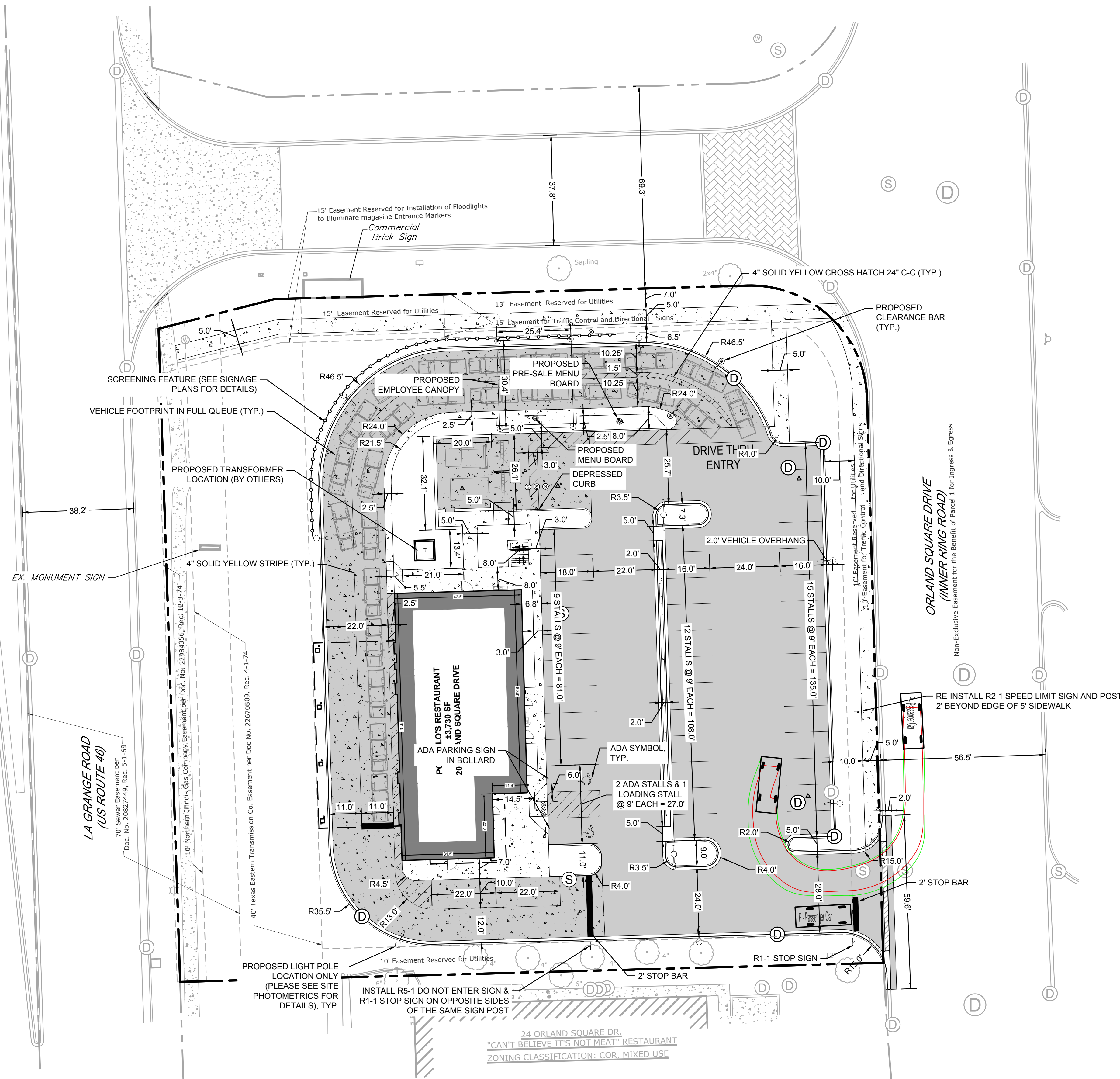
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ORLAND PARK, IL 60462

PROJ NO: 230210
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DATE: 02/23/2024
SHEET TITLE
EXISTING CONDITIONS & DEMOLITION PLAN
SHEET NUMBER
C1.0
5 OF 15



PAVING LEGEND	
	STANDARD DUTY ASPHALT PAVEMENT
	HEAVY DUTY CONCRETE PAVEMENT
	PCC SIDEWALK
	DETECTABLE WARNING TILE
	CURB & GUTTER
	BARRIER CURB
	REVERSE PITCH CURB & GUTTER
	DEPRESSED CURB & GUTTER

- SHEET NOTES:**
- ALL DIMENSIONS ARE TO BE TAKEN FROM THE FACE OF CURB (FLOWLINE).
 - ALL CURB RADII ARE TO BE TAKEN FROM THE BACK OF CURB.

SITE SUMMARY
PROPOSED & EXISTING ZONING
• COR, MIXED USE (COMMERCIAL, OFFICE, RESIDENTIAL)

LOT AREA = 55,768 SF = 1.280 AC
NUMBER OF LOTS = 1 LOT
NUMBER OF BUILDINGS = 1 BUILDING

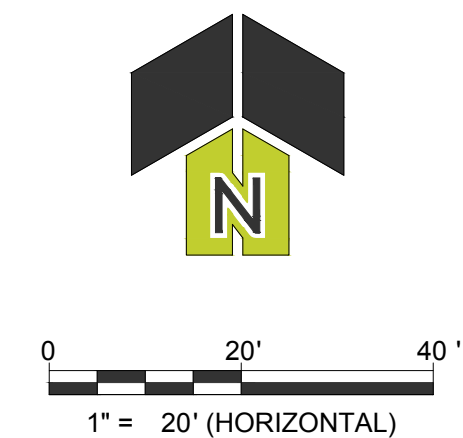
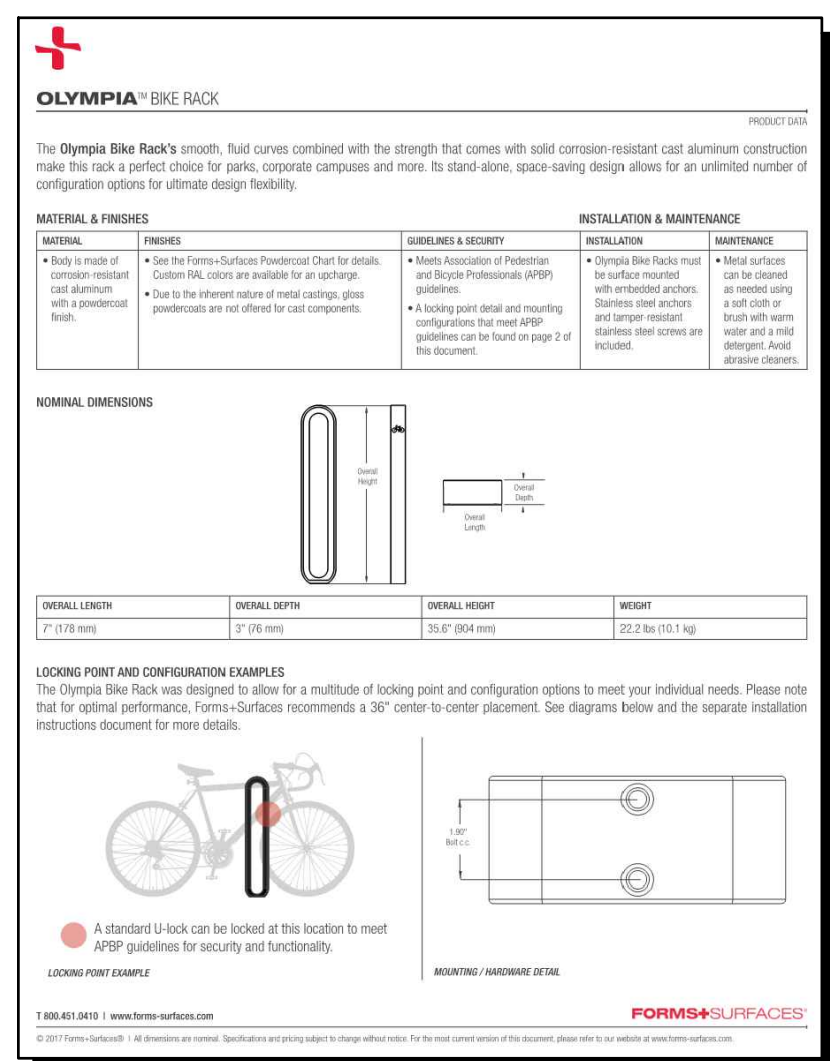
BUILDING AREA = 6,970 SF
PRINCIPAL PORTILLO'S BUILDING AREA = 3,730 SF
DRIVE THRU WINDOW OVERHANG CANOPY AREA = 1,783 SF
EMPLOYEE CANOPY AREA = 773 SF
REMOTE GARBAGE ENCLOSURE AREA = 684 SF
TOTAL BUILDING AREA = 6,970 SF

TOTAL PERVIOUS AREA = 20,973 SF = 0.481 AC (38%)
TOTAL IMPERVIOUS AREA = 34,795 SF = 0.799 AC (62%)
FLOOR AREA RATIO = 0.07
LOT COVERAGE = 62%

PARKING SUMMARY
REQUIRED PARKING = 1 STALL / 100 SF = 3,730 SF / 10 = 37 STALLS
REQUIRED ADA STALLS = 2 STALLS
PROVIDED PARKING = 38 STALLS
PROVIDED ADA STALLS = 2 STALLS
TOTAL PROVIDED STALLS = 38 STALLS

REQUIRED BICYCLE PARKING = 3 SPACES
PROVIDED BICYCLE PARKING = 4 SPACES (2 BIKE RACKS)

BUILDING SETBACKS	ACTUAL	REQUIRED
SIDE (NORTH) =	48.5'	25'
FRONT (EAST) =	120.3'	25'
SIDE (SOUTH) =	39.5'	15'
REAR (WEST) =	49.5'	25'



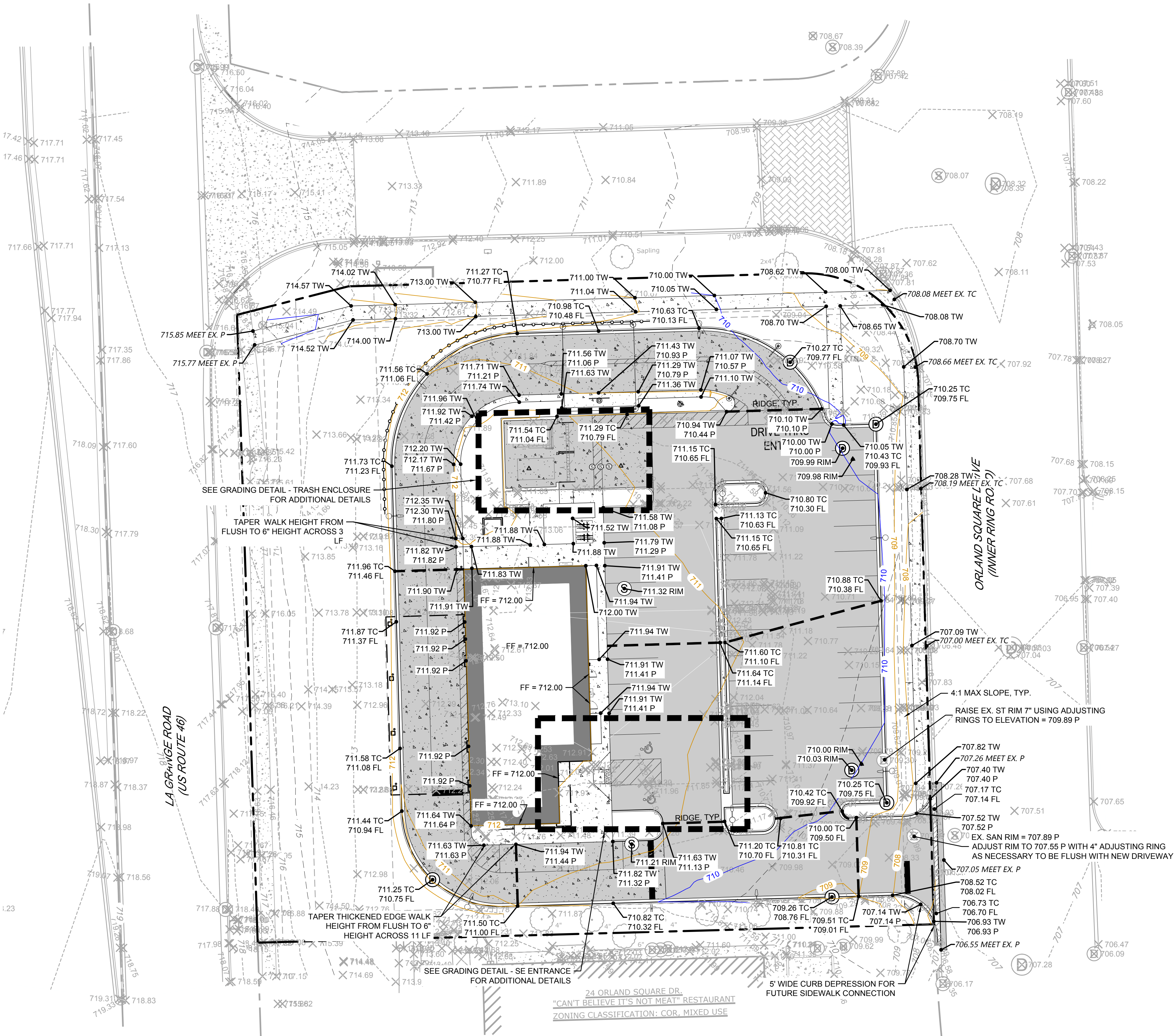
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SHEET TITLE
SITE LAYOUT
PLAN
SHEET NUMBER
C2.0
6 OF 15



PROPOSED LEGEND

100.00 TW

TOP OF SIDEWALK GRADE

100.00 TC

TOP OF CURB GRADE

100.00 P

PAVEMENT GRADE

100.0 G

GROUND SURFACE GRADE

100

MAJOR CONTOUR

100

MINOR CONTOUR

GRADING DETAIL - TRASH ENCLOSURE

SCALE: 1" = 10'

GRADING DETAIL - SE ENTRANCE

SCALE: 1" = 10'

N

0

20'

40'

1" = 20' (HORIZONTAL)

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AARON J. BRIDGES

062-071413

LICENSED PROFESSIONAL ENGINEER

OF THE STATE OF ILLINOIS

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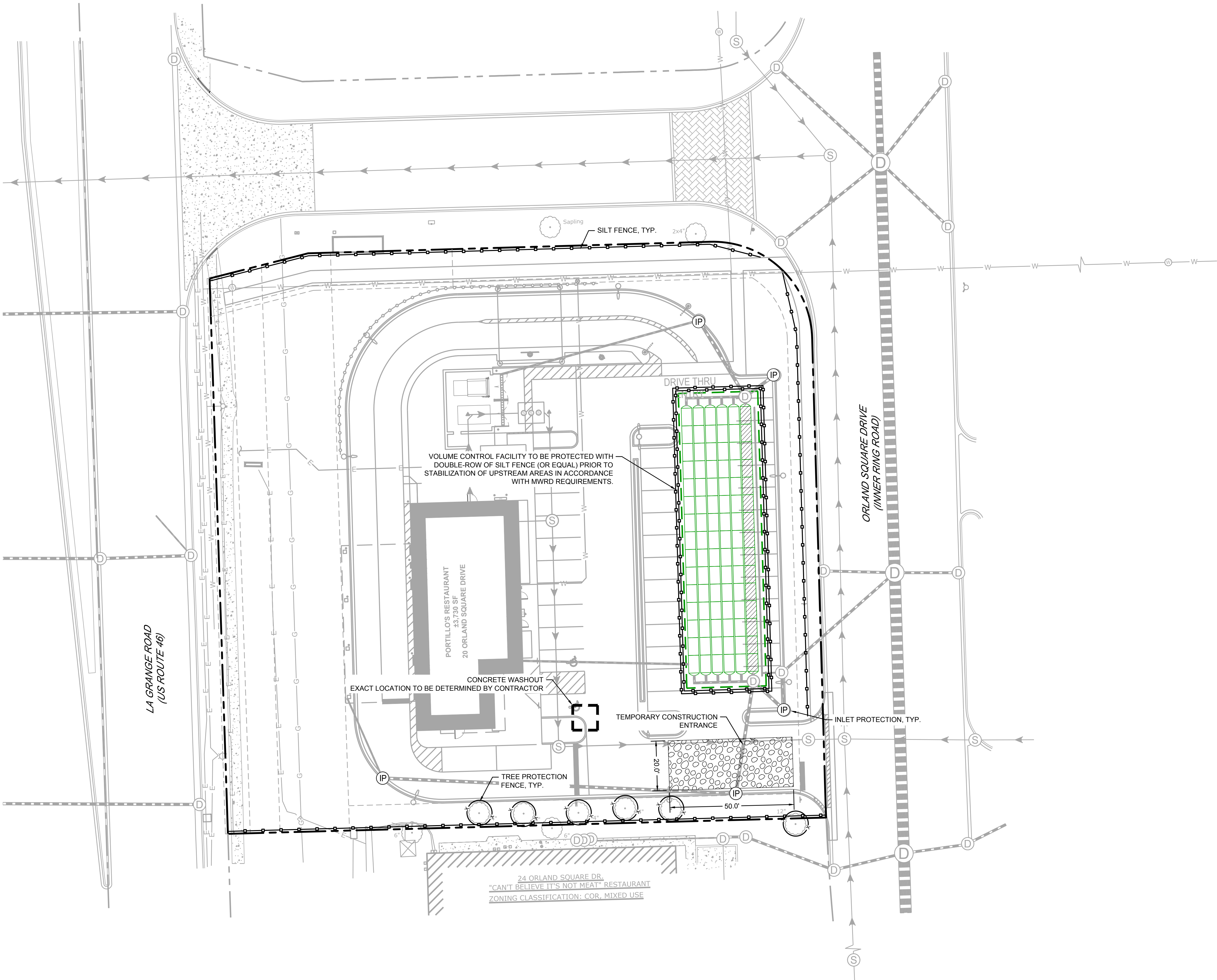
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SHEET TITLE
SITE GRADING PLAN
SHEET NUMBER
C3.0
7 OF 15



SESC LEGEND

- SILT FENCE
- TREE PROTECTION FENCE
- TEMPORARY CONSTRUCTION ENTRANCE
- INLET PROTECTION FILTER BASKET
- CONCRETE WASHOUT

0 20' 40'

1" = 20' (HORIZONTAL)

SOIL EROSION & SEDIMENT CONTROL PLAN

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SHEET TITLE

SOIL EROSION & SEDIMENT CONTROL PLAN

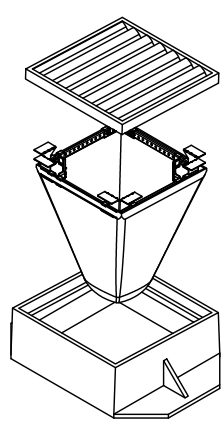
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8 OF 15

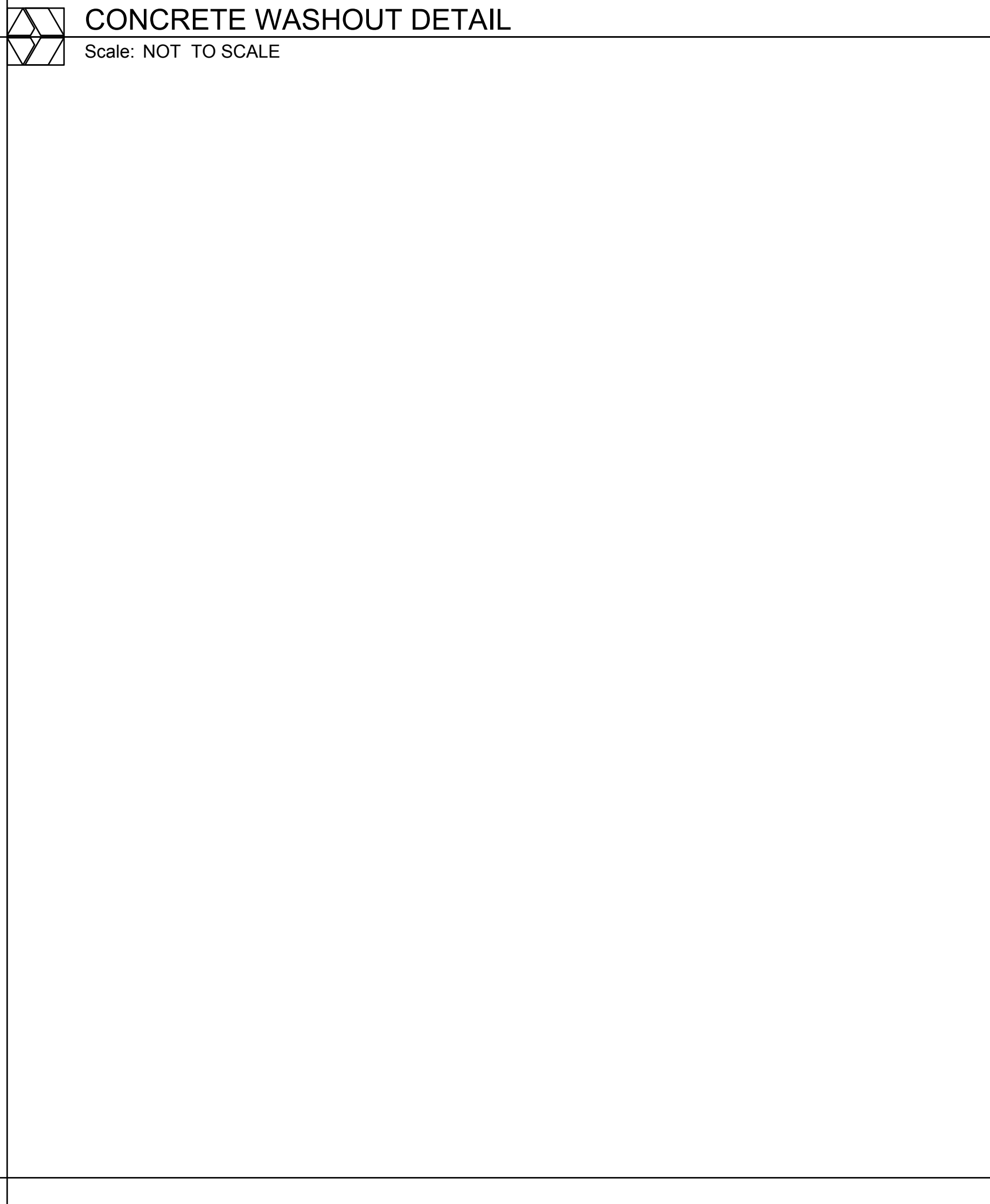
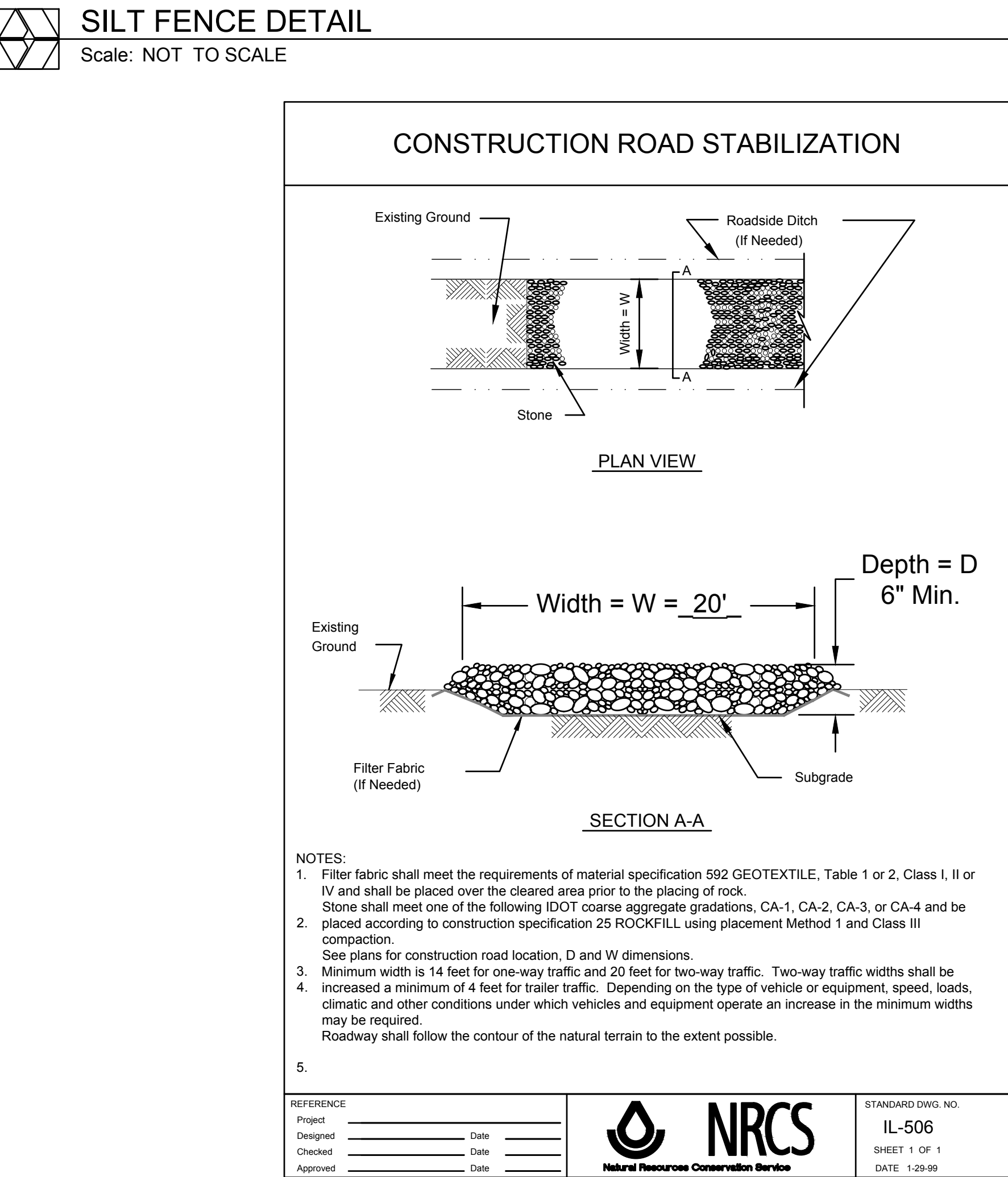
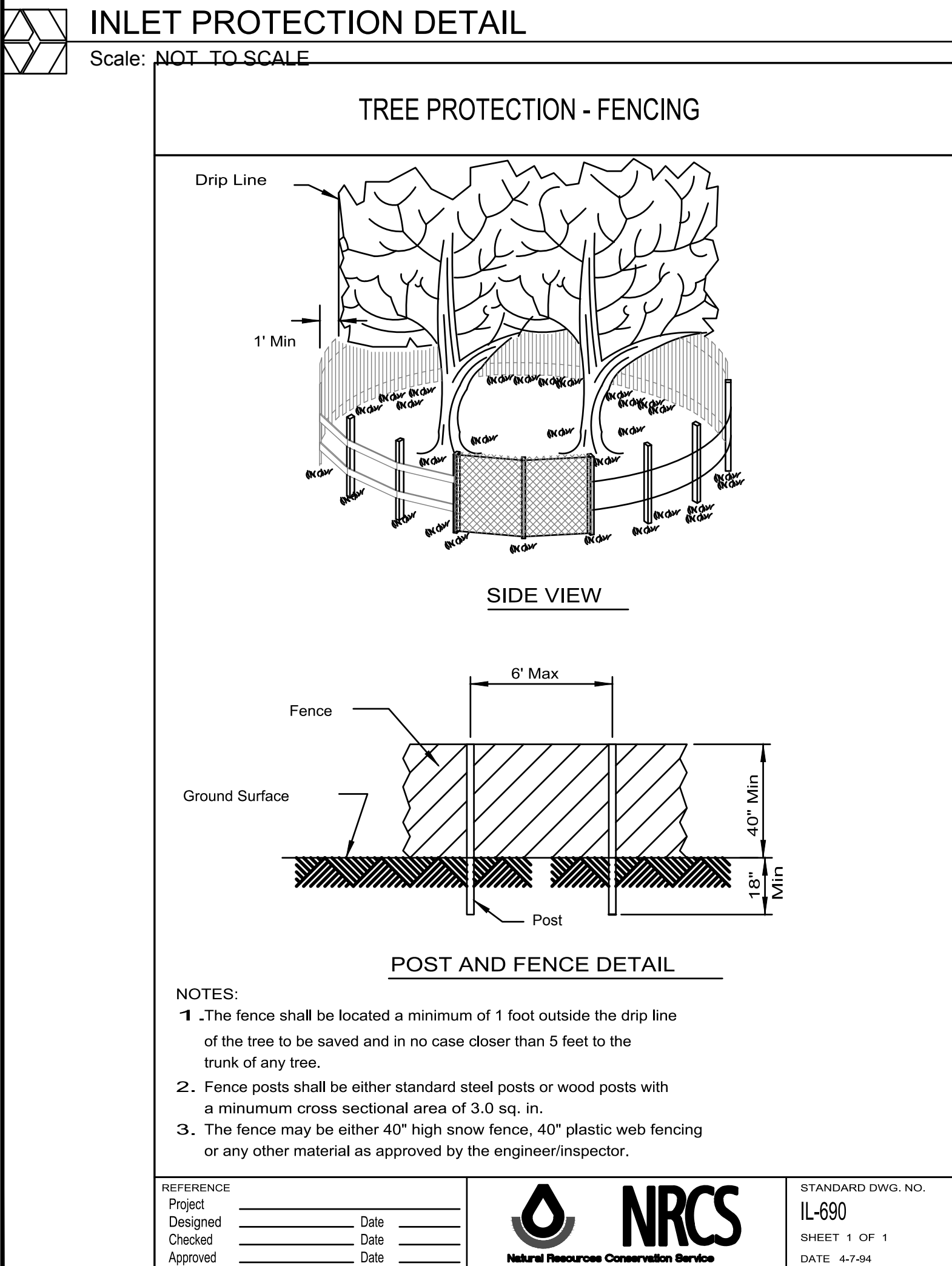
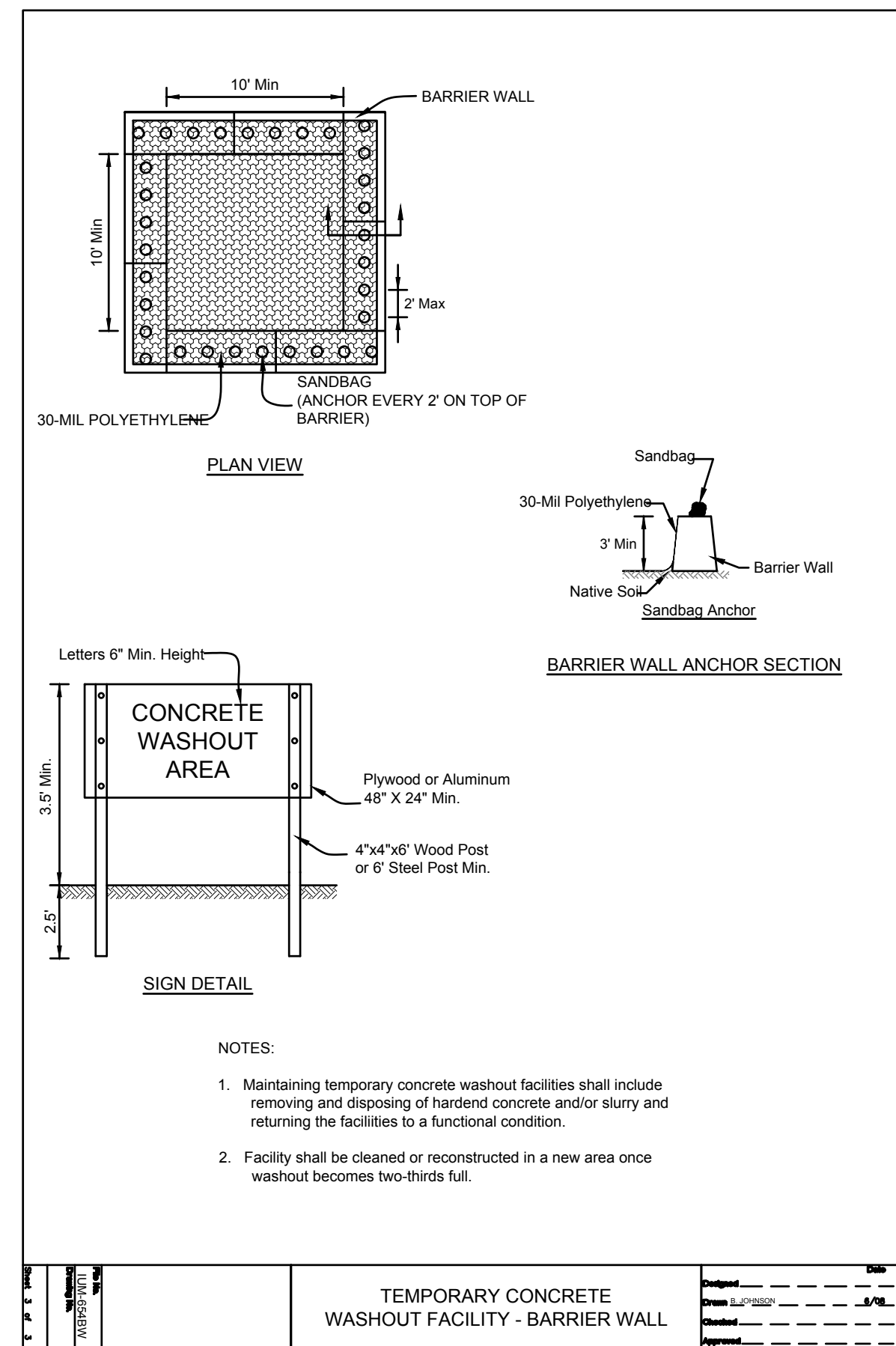
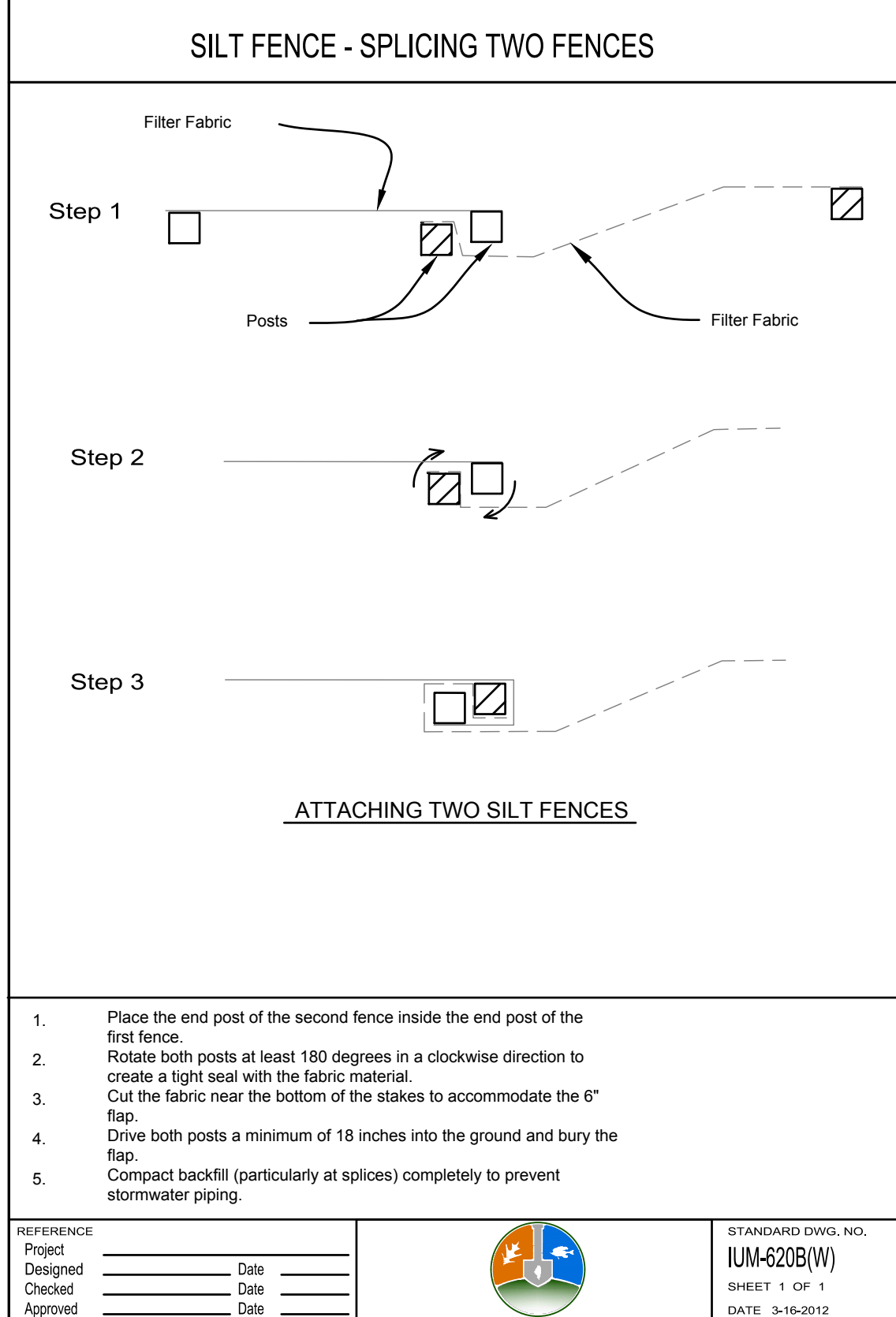
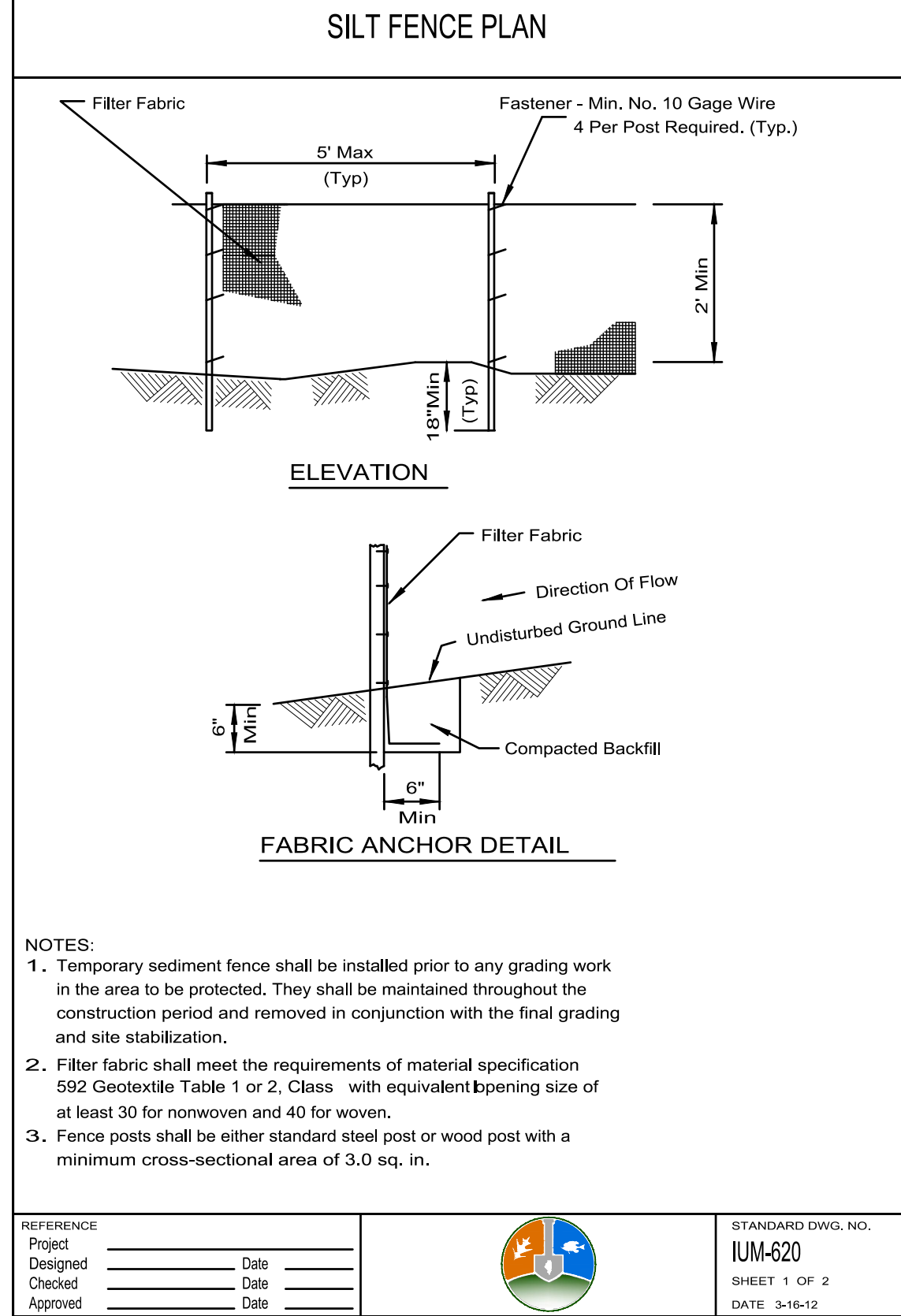
FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION PRODUCT SELECTION AND SPECIFICATION DRAWING									
FLEXSTORM CATCH-IT INLET FILTERS FOR ROUND OPENINGS					FLEXSTORM CATCH-IT INLET FILTERS FOR SQUARE/RECTANGULAR OPENINGS				
ILDOT Standard	Manufacturer	East Jordan Casting	Inlet Type	Grate Size	Bag Cap. (cu ft)	Flow Rating (cfs)	ADS PIN		
1	1773, 1792, 1772, 2594, 2435, 2425,	1026, 1022, 1050, 1058	Round (RD)	22.25 x 23.5	1.9	1.3	6MRDILT1		
2	R-3501-L2, -A	7170, 7171	Round Cub (RC)	22.25 x 16.25	1.6	0.6	62MSQILT216		
3	R3278-A, R-3501-A	7220, 7221	Curb Box (CB)	22.0 x 16.9	1.5	1.0	62MCBILT3		
4	R3443-B	5150	Square/Rect (SR)	21.75 x 14.75	1.5	1.0	62MSQILT4		
6	R3502-A	7235	Round Cub (RC)	22 x 22.75	2.3	1.2	62MSQILT6		
8	2501, 4349-C, 4352, 4350	2630, 2670, 6527	Round (RD)	Beehive/Ditch Grates	2.3	1.6	62MSQILT8		
9	R3508-A2	7300	V-Grate	19.25 x 16.25	1.7	1.0	62MSQILT9		
10	R3509-A2	7381	V-Grate	26.75 x 11.4	1.5	1.1	62MSQILT10		
11	R3281-A	7210	Curb Box (CB)	26.75 x 17.25	2.5	1.3	62MCBILT11		
12	R3503-B	7190	Round Cub (RC)	22.5 x 22.5	2.4	1.2	62MSQILT12		
20	R3526-V, R3529-V	7535, 5380, 7536 (2 gph)	Square/Rect (SR)	22.5 x 22.5	2.4	1.2	62MSQILT20		
21	R3527-V	7640	Curb Box (CB)	24 x 16.25	1.6	1.1	62MCBILT21		
23	R3525-L	7464	Square/Rect (SR)	24 x 22.25	2.7	1.3	62MSQILT23		
24	R3526-L	7467	Square/Rect (SR)	25.75 x 16.75	2.3	1.2	62MSQILT24		
31	...	7250	Round Cub (RC)	22.75 x 22.4	2.5	1.2	62MSQILT31		
8	R3455C	...	Square/Rect (SR)	30 x 24	4.6	1.7	62MSQILT8		
G3/G4	R3501-U	7545	Single Wulff	13.75 x 20.2 x 22.12	1.3	0.9	62MCBILTG3		
NA	R-3501-P	7525	Round Cub (RC)	25.7 x 19	2.4	1.2	62MSQILTNA-P		
NA	R-3501-LR	7495	Round Cub (RC)	26 x 23.5	3.1	1.4	62LSQILTNA-LR		

*FLOW RATINGS SHOWN ARE 50% MAXIMUM



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SCALE: C-IL-SUBMIT SHEET 1 OF 1



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CIVIL ENGINEERING

AARON J. BRIDEX
062-071413
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
Signed: 05/08/24
Expires: 11/30/25

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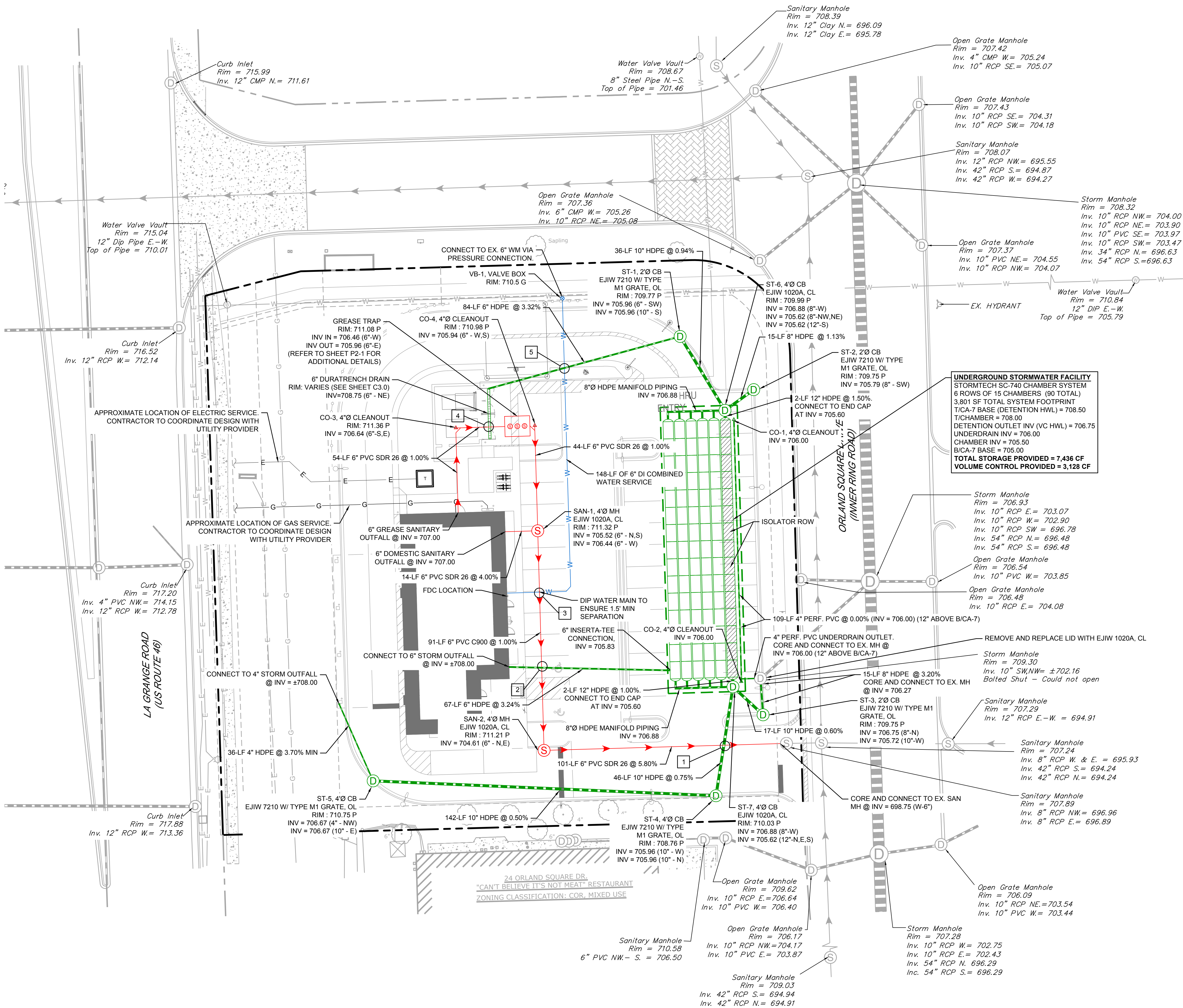
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20 ORLAND SQUARE DR.
ORLAND PARK, IL 60462

PROJ NO: 230210
ENG: SJS
DATE: 02/23/2024

SHEET TITLE
SOIL EROSION & SEDIMENT CONTROL DETAILS

SHEET NUMBER
C4.1
9 OF 15



UTILITY LEGEND

- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED WATER VALVE BOX
- PROPOSED STORM PIPE
- PROPOSED STORM STRUCTURE
- PROPOSED STORM CLEANOUT
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING STORM SEWER LINE
- EXISTING ELECTRIC
- EXISTING SANITARY MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING STORM STRUCTURE

UTILITY CROSSINGS

1	ST B/P = 705.7± SAN T/P = 700.8±
2	ST B/P = 707.5± SAN T/P = 705.6±
3	SAN B/P = 705.2± WM T/P = 703.7±
4	ST B/P = 708.7± CHAMBER INV = 705.50
5	ST B/P = 707.7± WM T/P = 705.7±

UNDERGROUND STORMWATER FACILITY
STORMTECH SC-140 CHAMBER SYSTEM
6 ROWS OF 15 CHAMBERS (90 TOTAL)
3,801 SF TOTAL SYSTEM FOOTPRINT
T/CA-7 BASE (DETENTION HWL) = 708.50
T/CHAMBER = 708.00
DETENTION OUTLET INV (VC HWL) = 706.75
UNDERDRAIN INV = 706.00
CHAMBER INV = 705.50
B/CA-7 BASE = 705.00
TOTAL STORAGE PROVIDED = 7,436 CF
VOLUME CONTROL PROVIDED = 3,128 CF



0 20' 40'
1" = 20' (HORIZONTAL)

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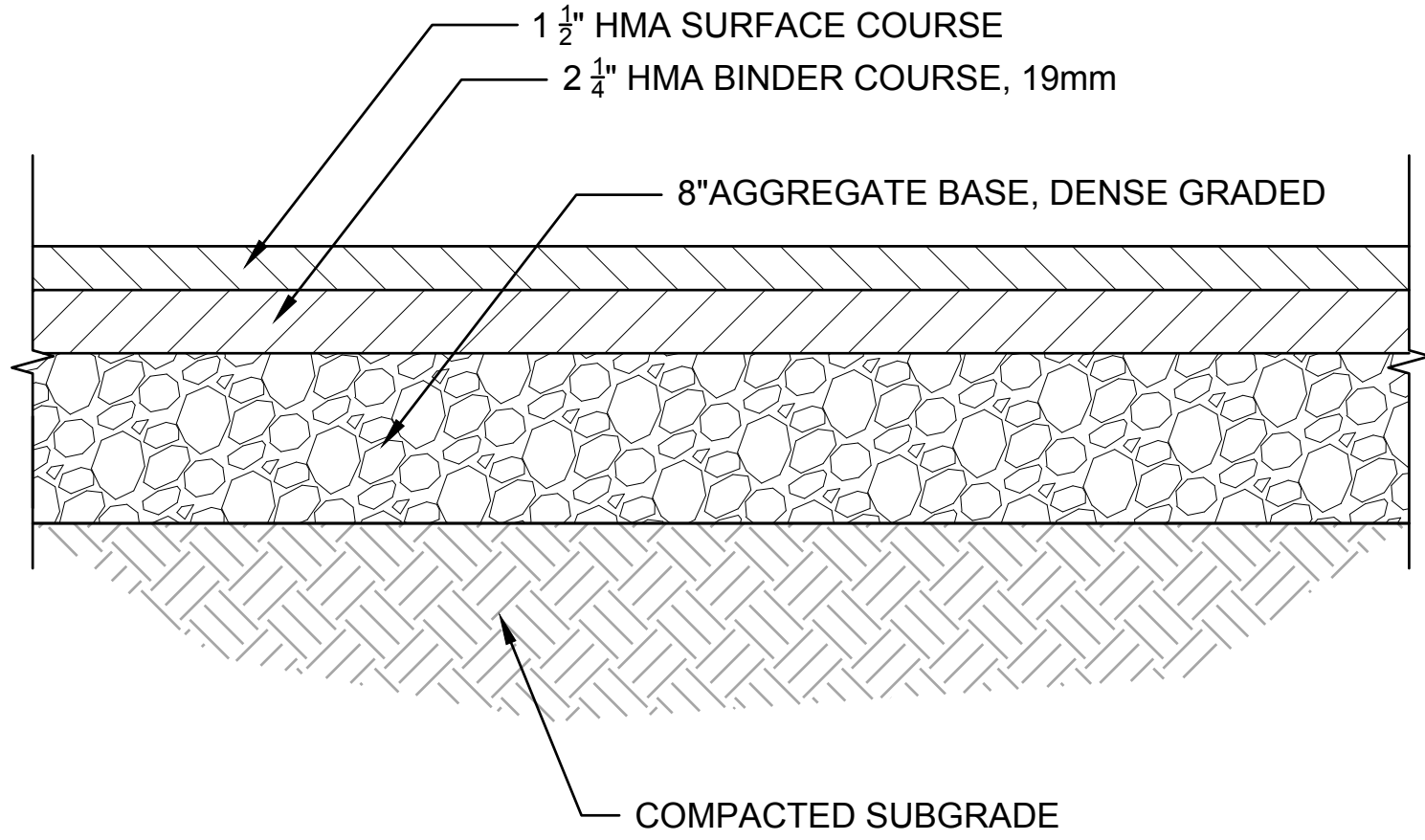
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LICENSED PROFESSIONAL ENGINEER
No. 062-071413
Signed: 05/08/24
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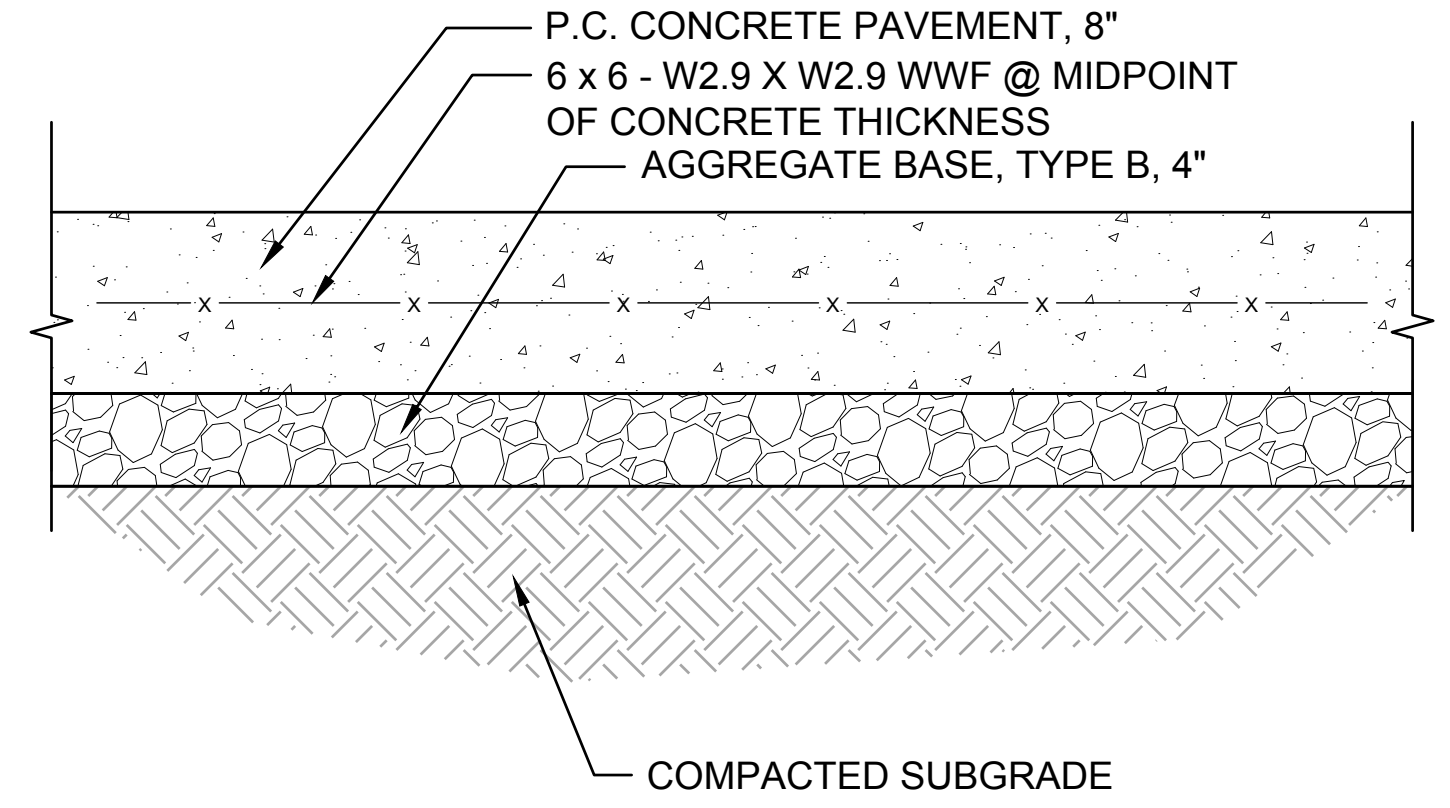
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20 ORLAND SQUARE DR.
ORLAND PARK, IL 60462

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SITE UTILITY PLAN
SHEET NUMBER
C5.0
10 OF 15



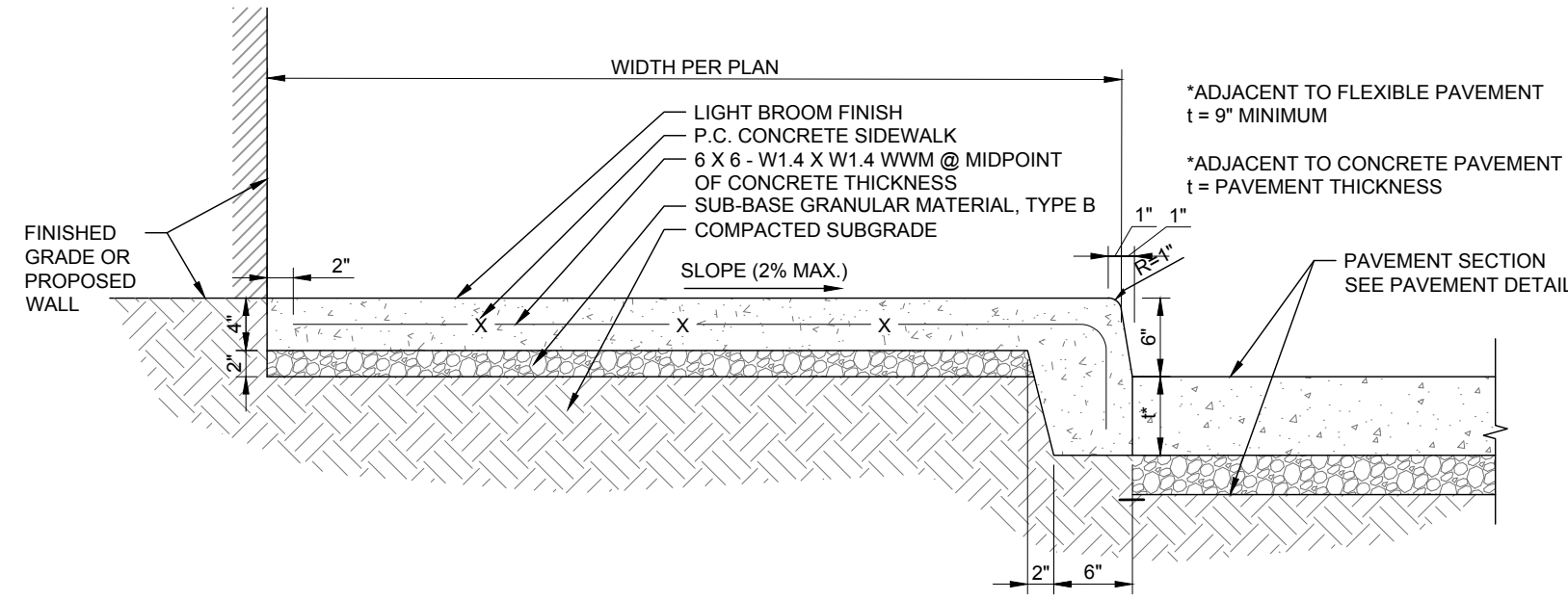
STANDARD DUTY BITUMINOUS PAVEMENT DETAIL

Scale: NOT TO SCALE



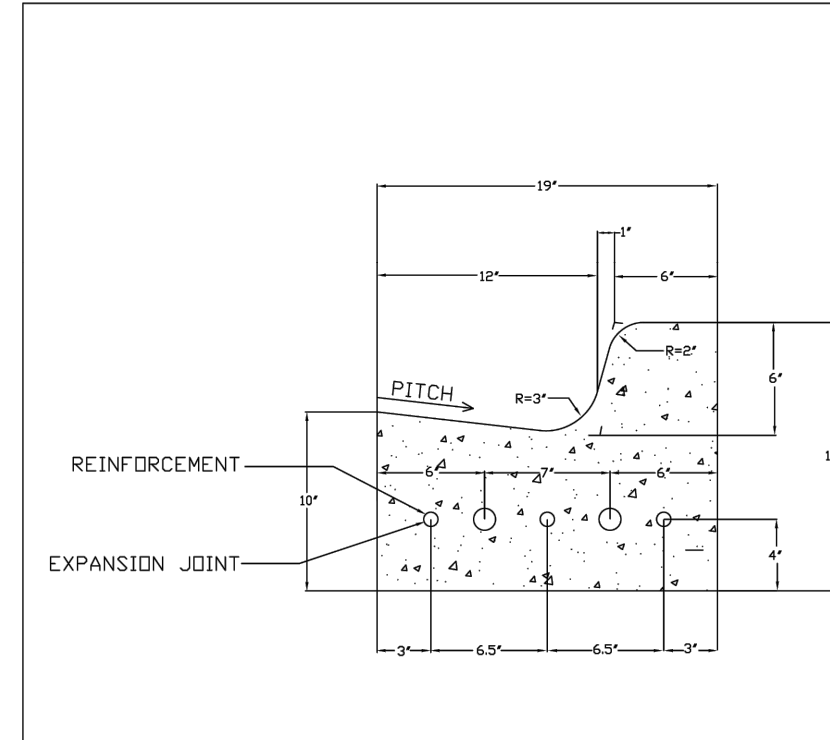
HEAVY DUTY CONCRETE PAVEMENT DETAIL

Scale: NOT TO SCALE



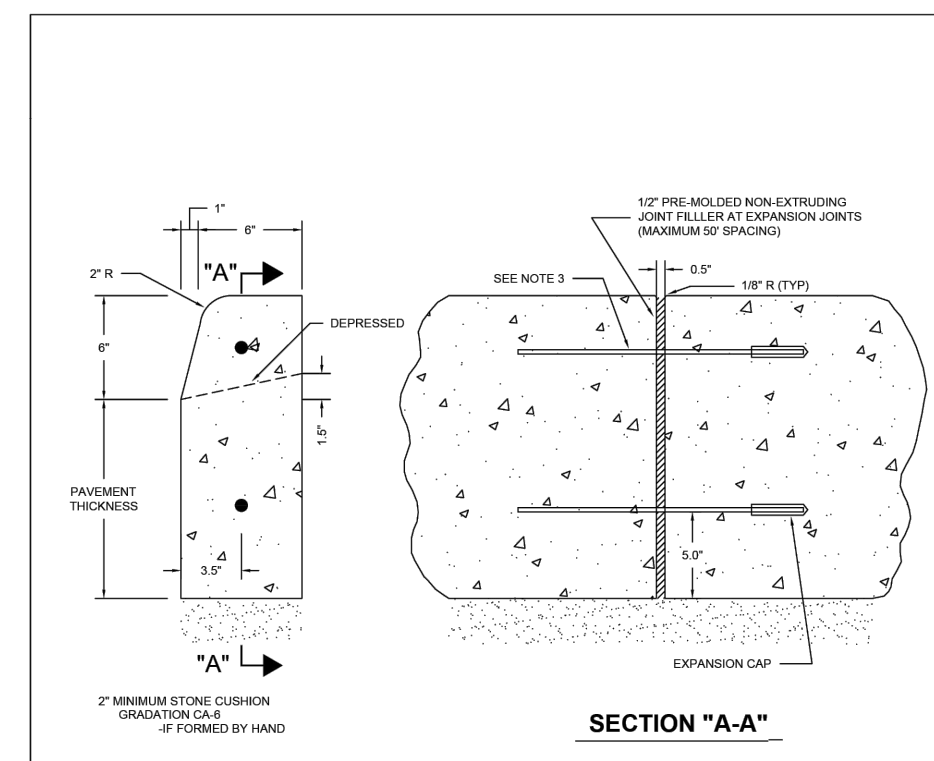
THICKENED EDGE SIDEWALK

Scale: N.T.S.

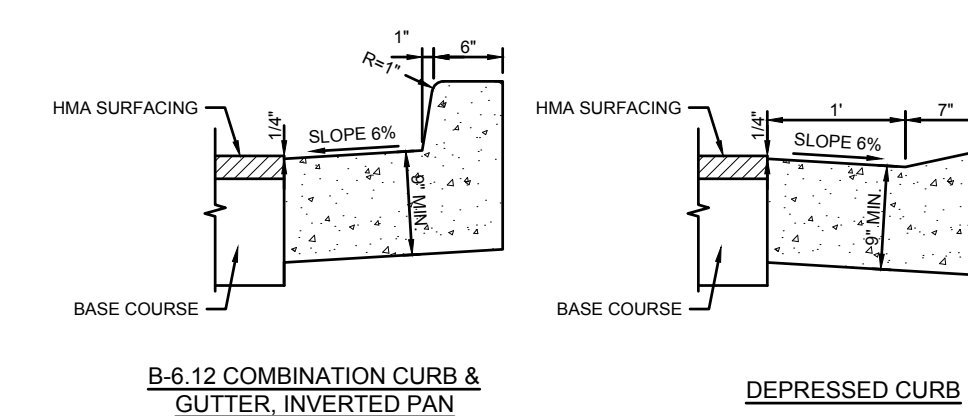


- NOTES:
1. REINFORCEMENT SHALL BE THREE (3) #5 REINFORCING BARS CONTINUOUS BETWEEN EXPANSION JOINTS, WITH LOCATION SPACING AS INDICATED ABOVE.
 2. EXPANSION JOINT: 3/4" THICK BITUMINOUS FILLER MATERIAL - PROVIDE TWO (2) #6 X 24" SMOOTH BARS WITH EXPANSION CAPS AT EACH EXPANSION JOINT.
 3. SAW THREE (3) EQUALLY SPACED CONTRACTION JOINTS AT TWENTY (20') FEET INTERVALS BETWEEN EXPANSION JOINTS. CONTRACTION JOINTS SHALL BE SAW-CUT IN THE UPPER ONE-THIRD OF CURB AND GUTTER WITHIN 3 DAYS OF PLACEMENT.
 4. COST OF BARS SHALL BE INCLUDED IN THE UNIT PRICE (PER LINEAL FOOT) FOR CURB AND GUTTER.

B - 6.12 CURB AND GUTTER			
DATE	BY	DATE	BY
Village of Orland Park		Engineering Department	
STB-04			

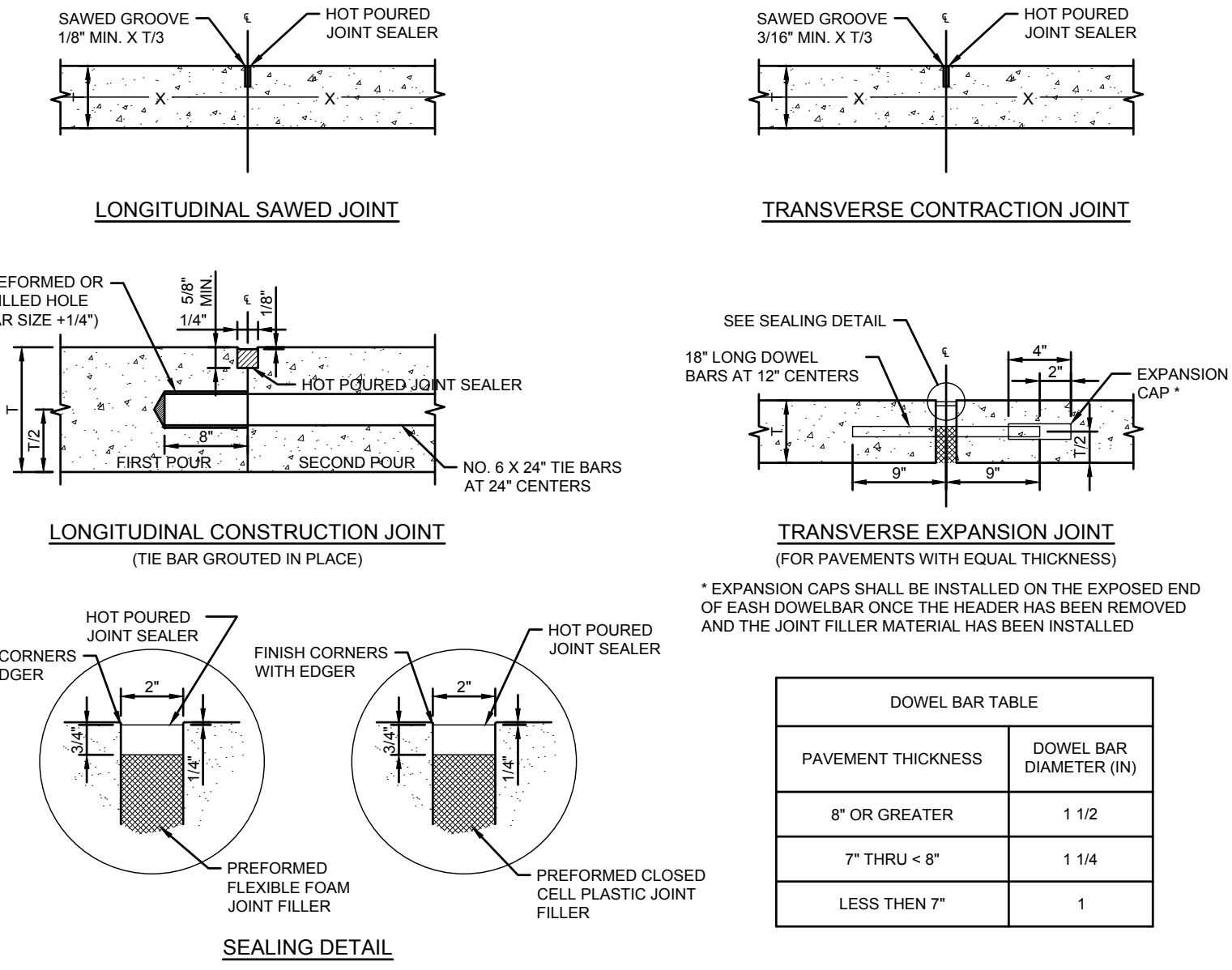


VERTICAL CURB (TYPE B)			
DATE	BY	DATE	BY
Village of Orland Park		Engineering Department	
STB-05			



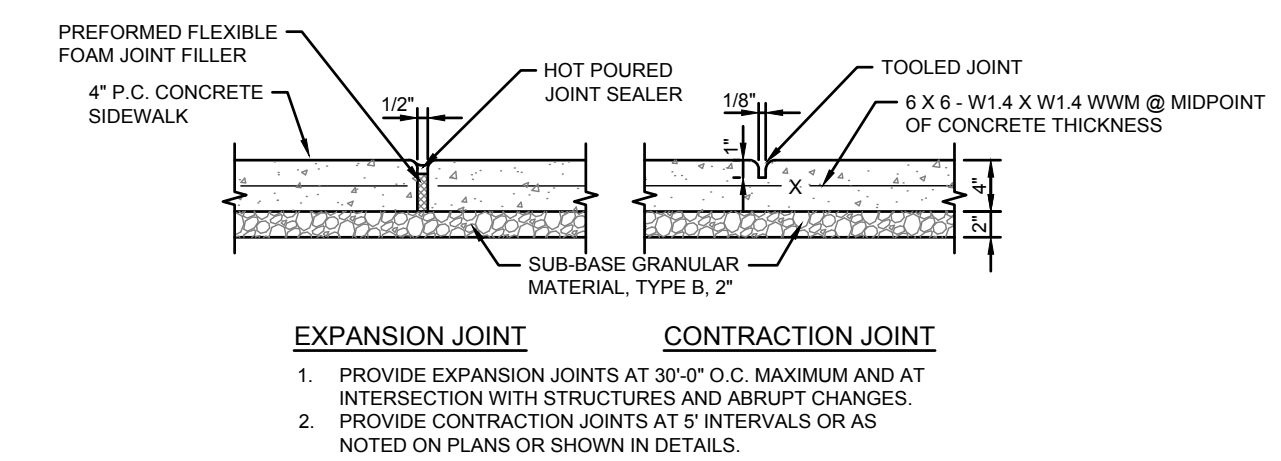
CURB DETAIL

Scale: NOT TO SCALE



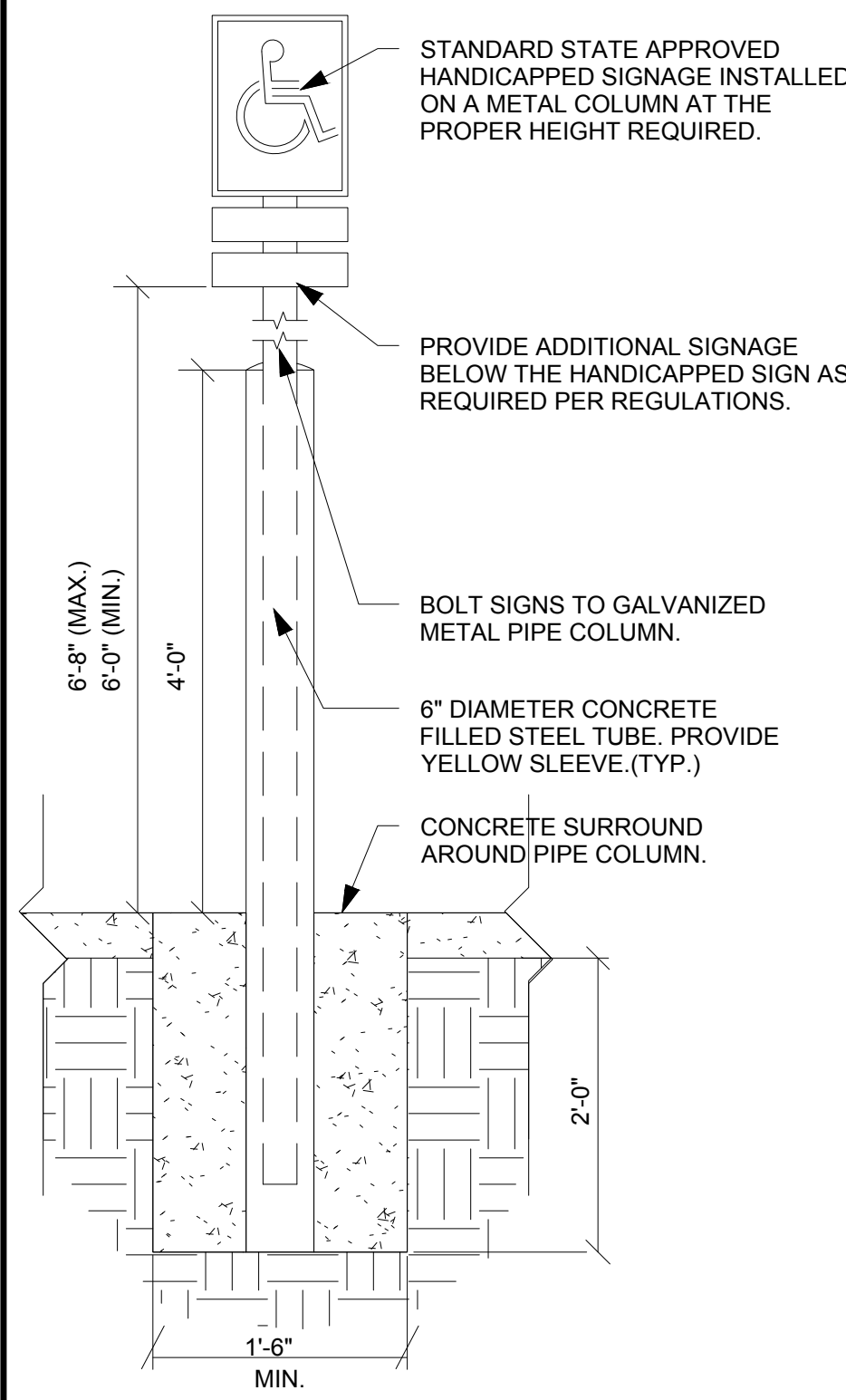
PAVEMENT JOINT DETAIL

Scale: NOT TO SCALE



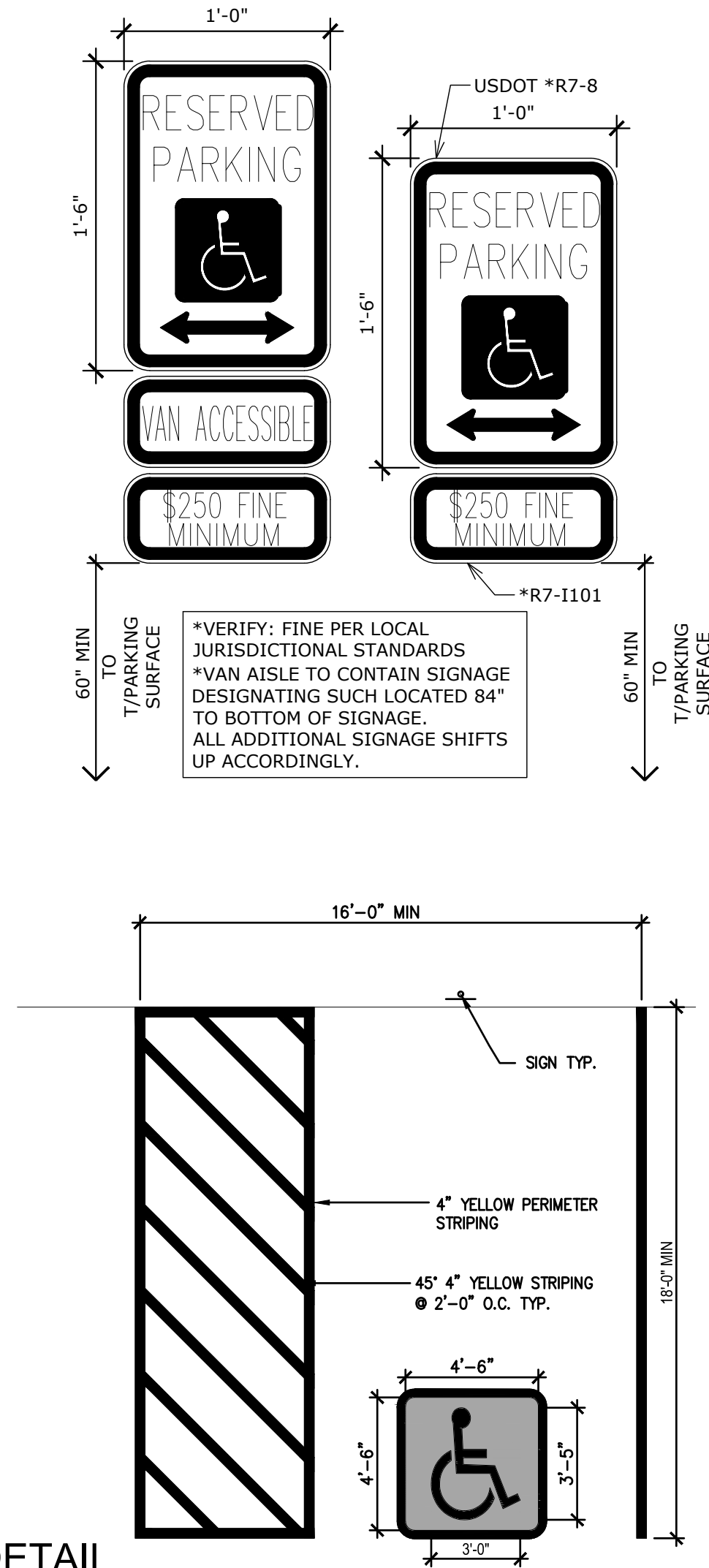
SIDEWALK JOINT DETAIL

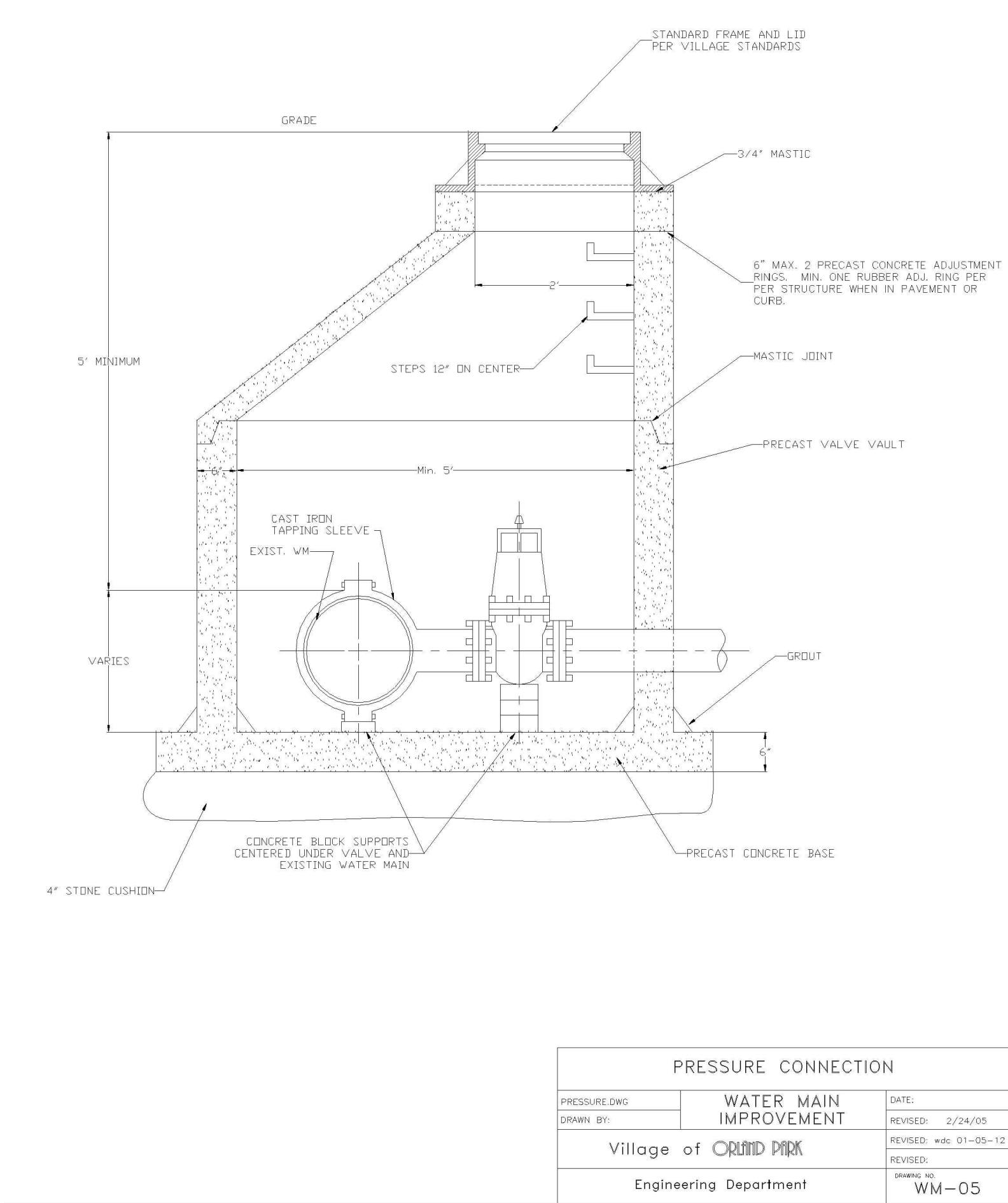
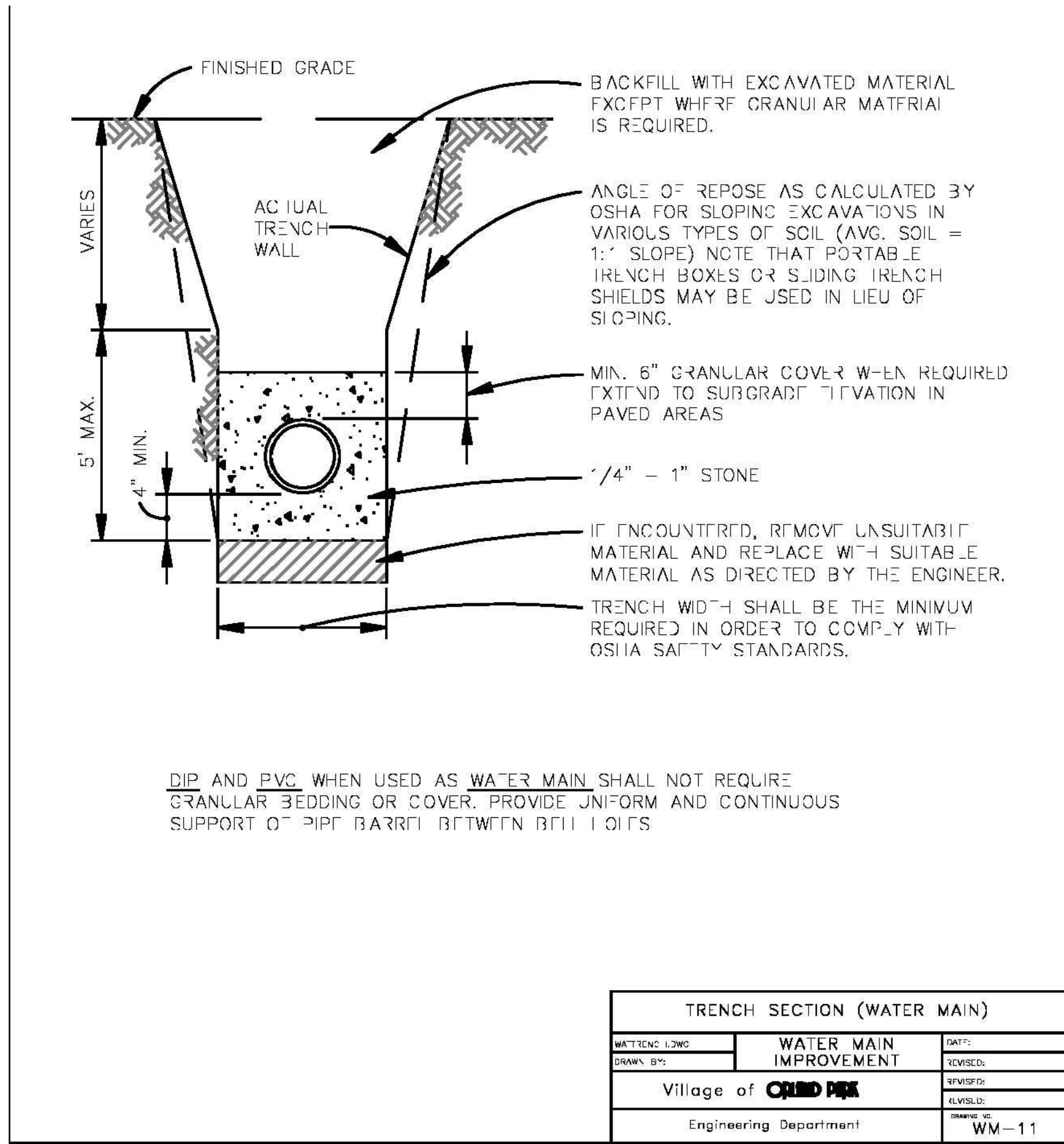
Scale: NOT TO SCALE



ADA SIGNAGE AND MARKING DETAIL

Scale: NOT TO SCALE



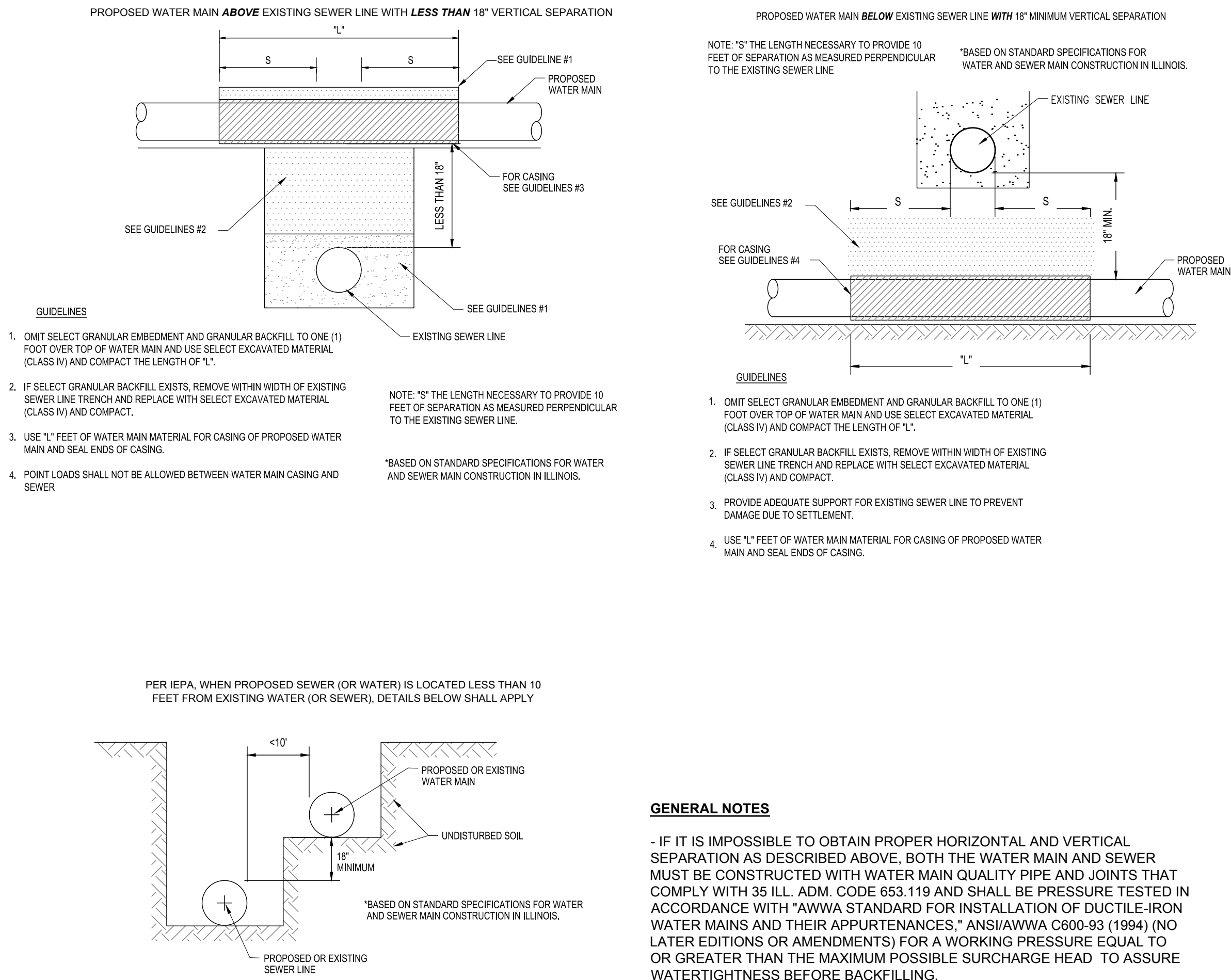


WATER MAIN TRENCH SECTION

Scale: NOT TO SCALE

WATER MAIN PRESSURE CONNECTION

Scale: NOT TO SCALE



WATER SEWER SEPERATION DETAILS

Scale: NOT TO SCALE

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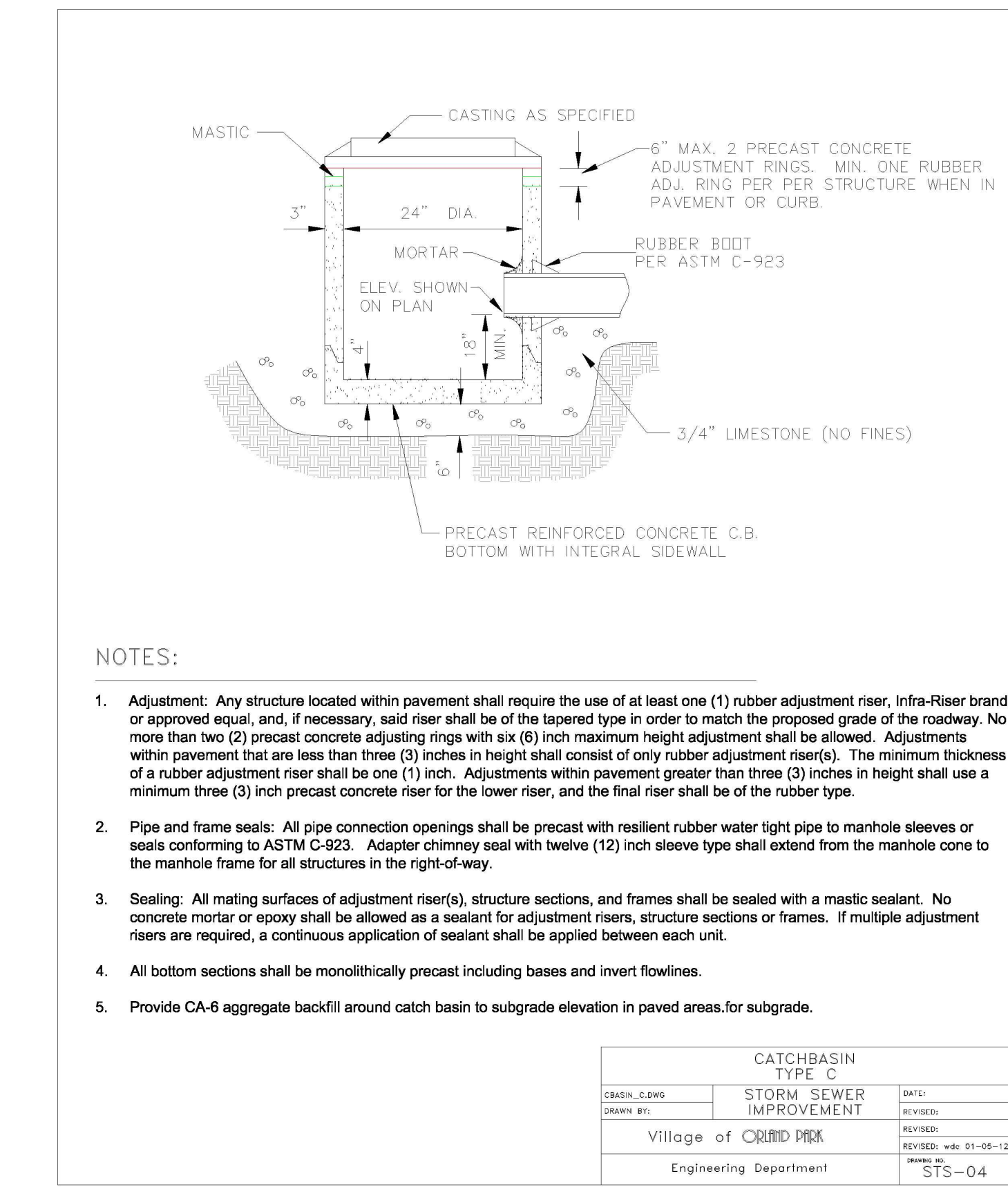
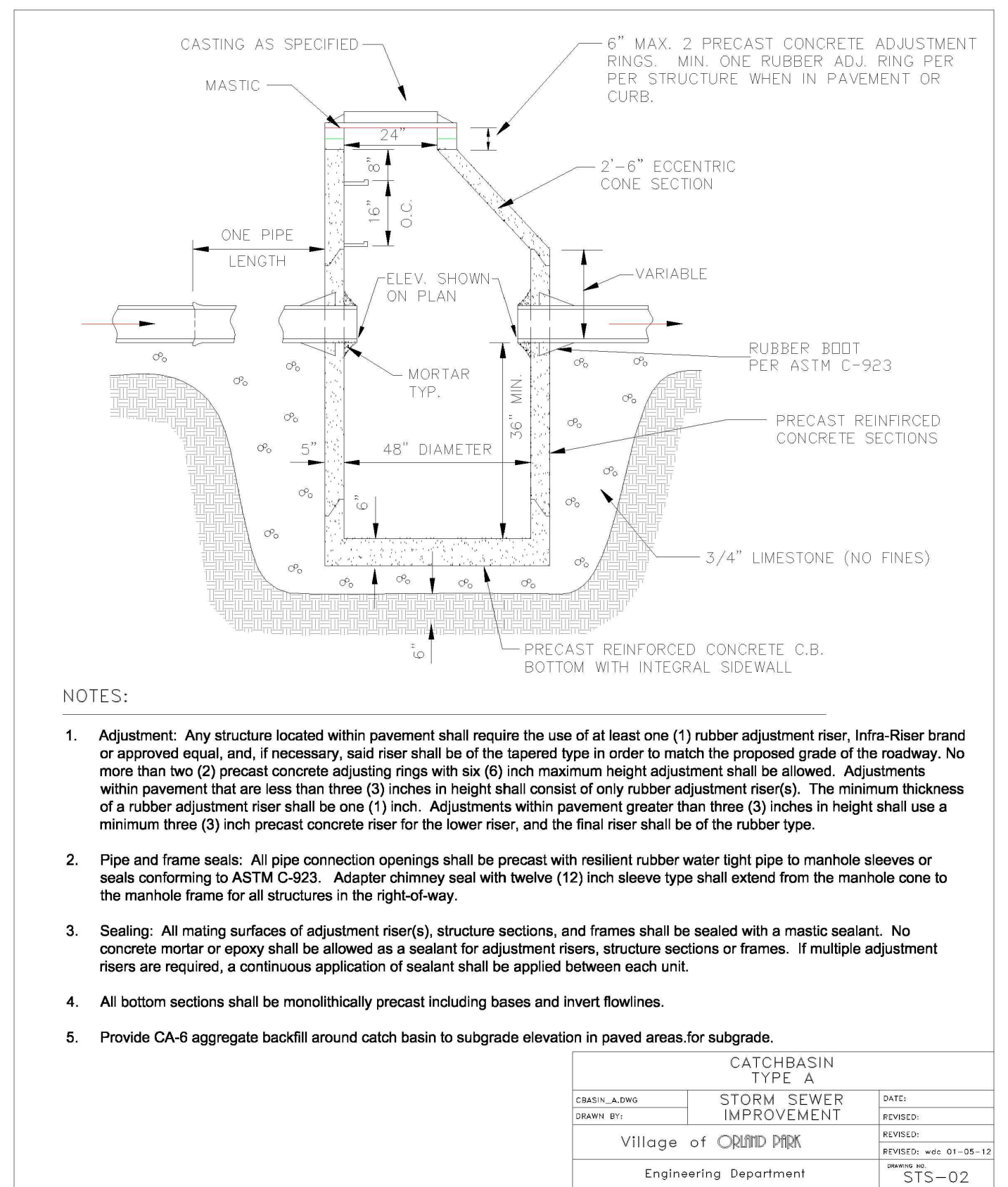
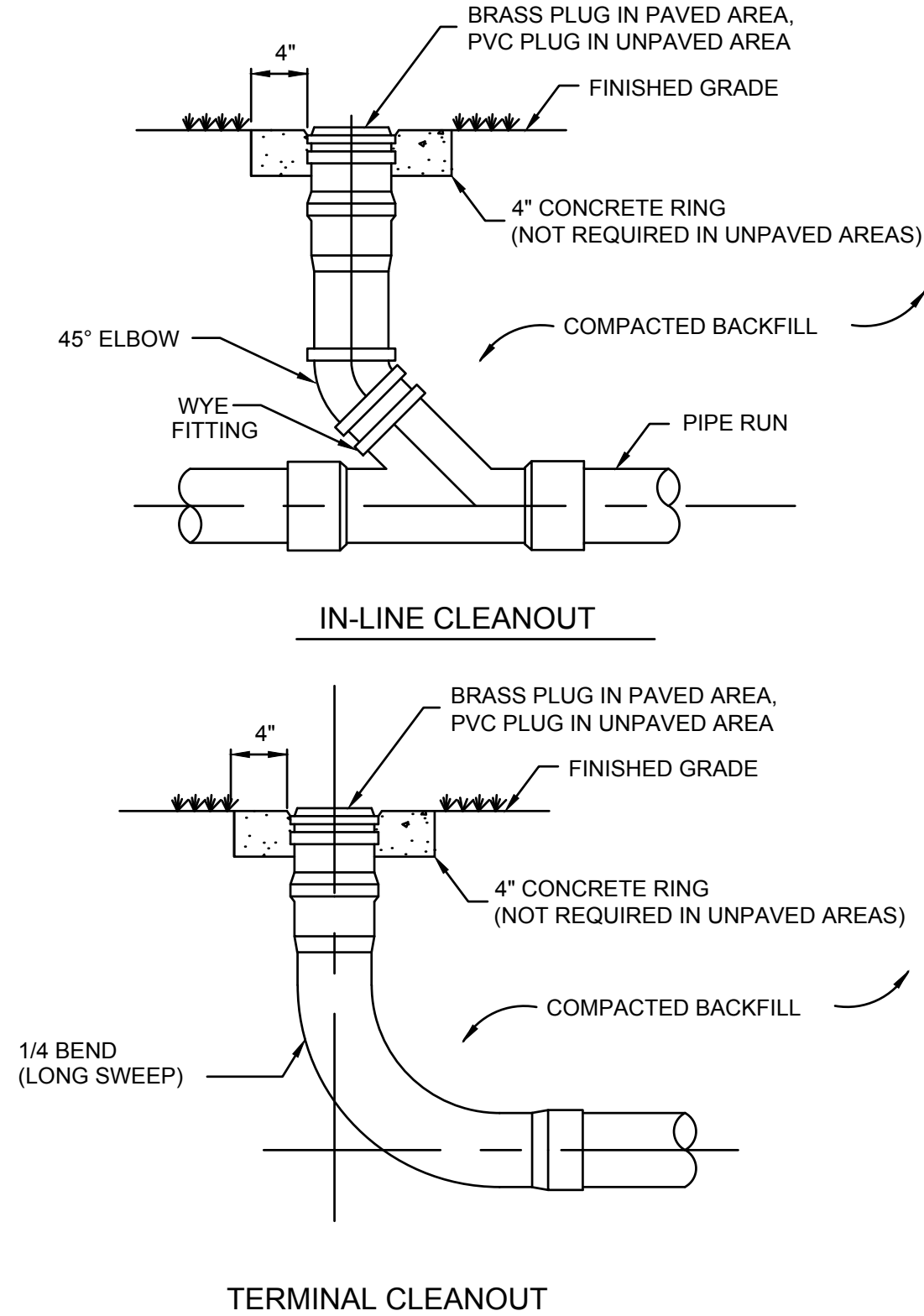
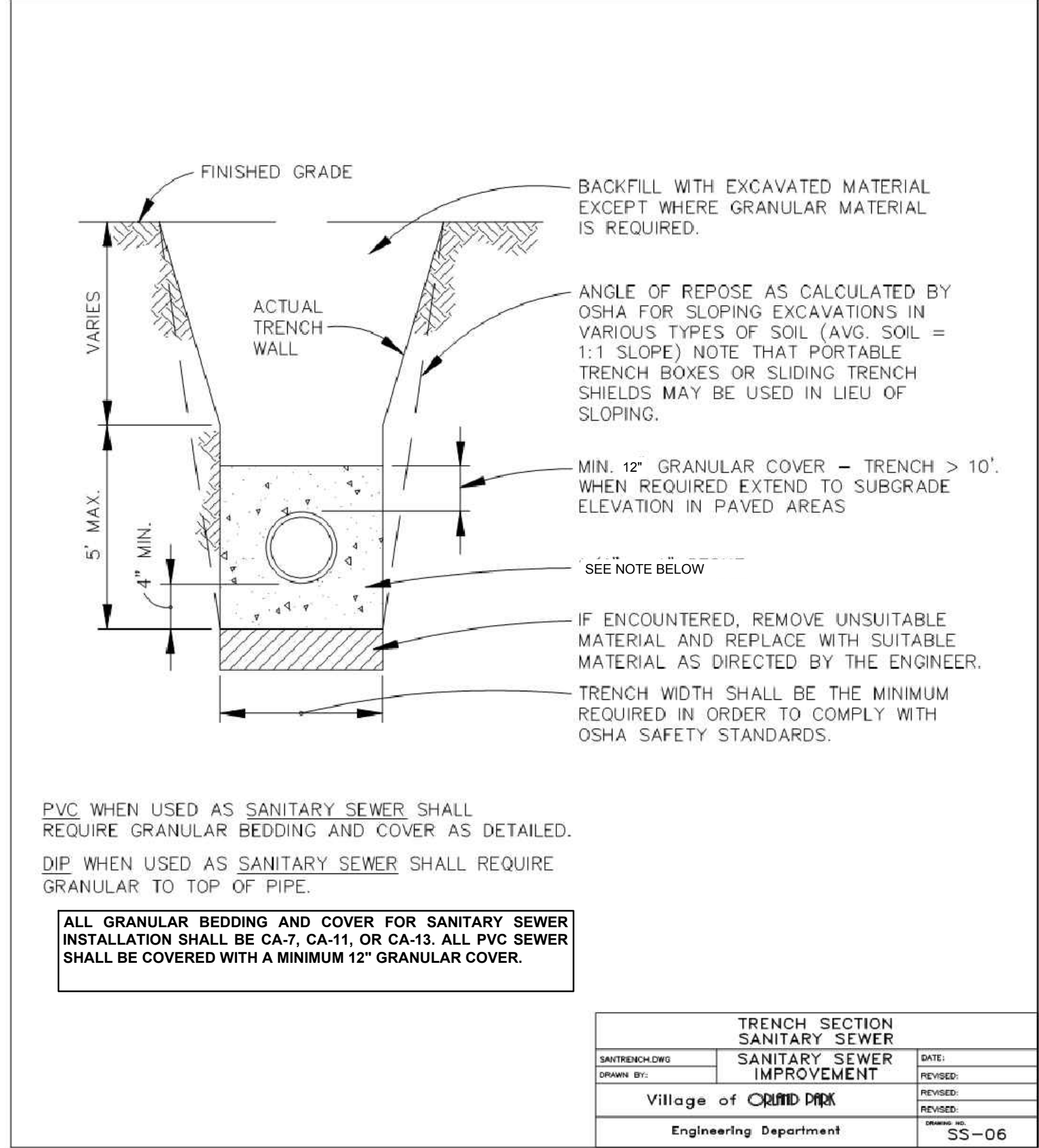
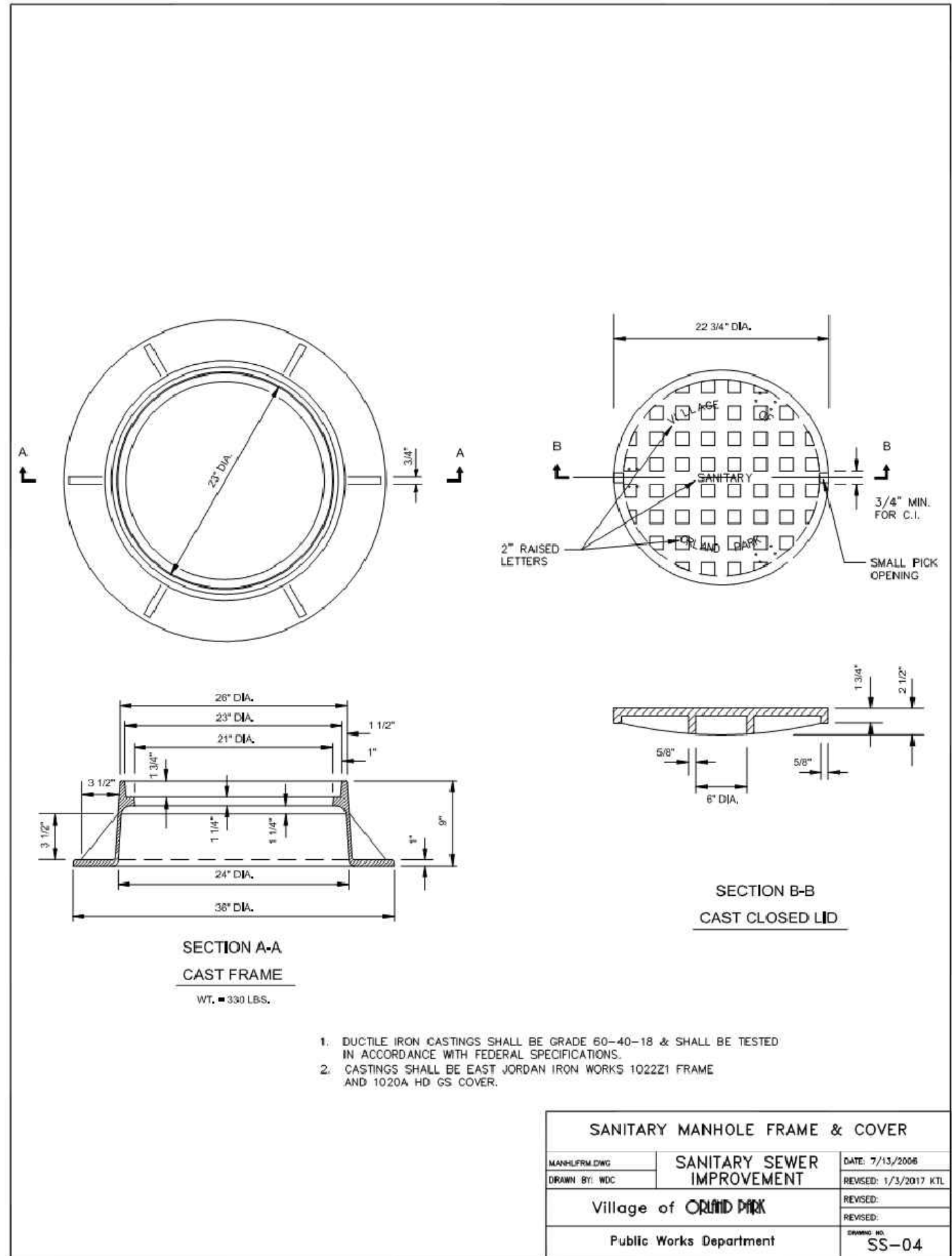
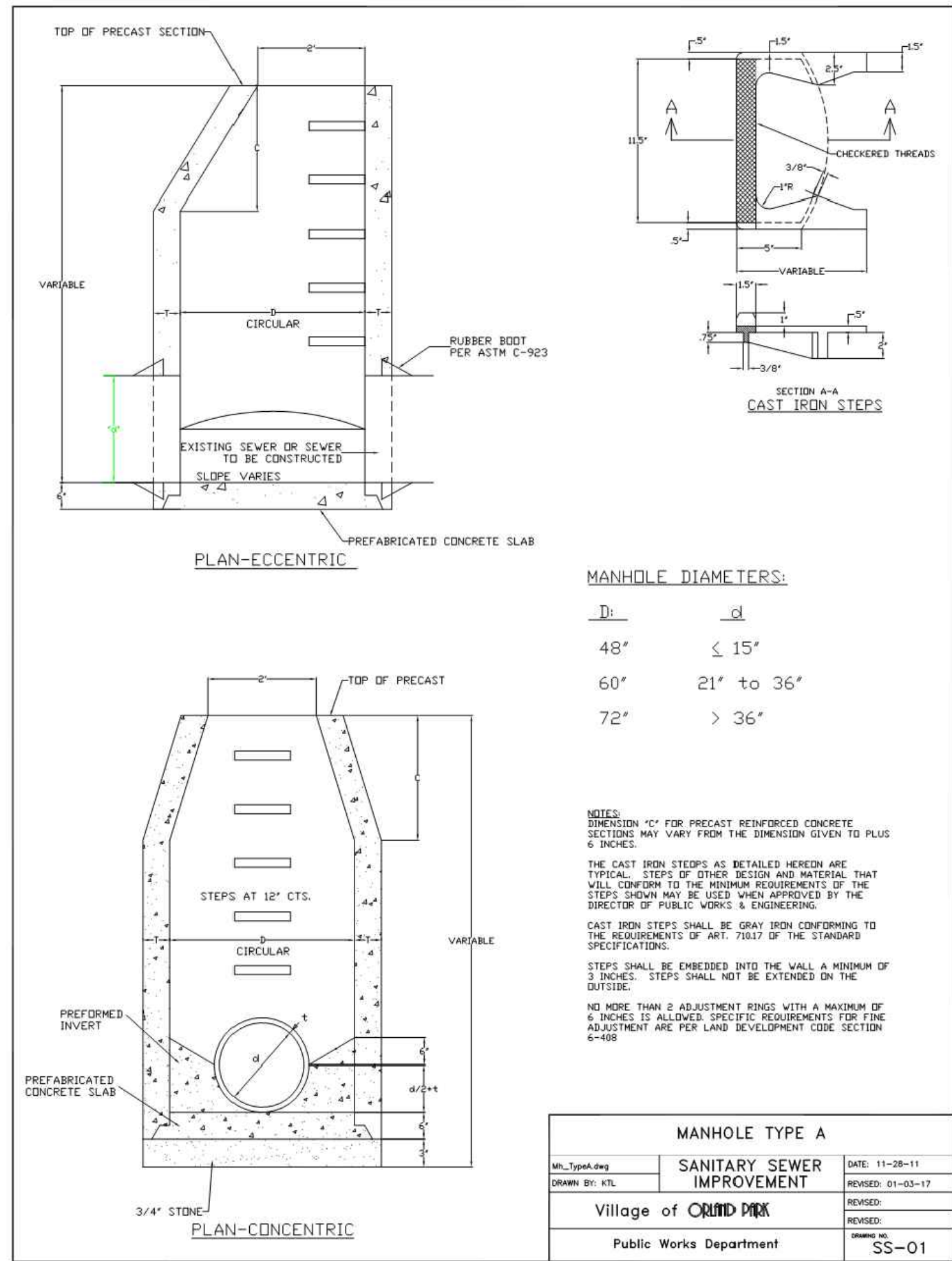
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