



AIA®

Document G709™ – 2018

Proposal Request

PROJECT: *(name and address)*

Lee's Summit Middle School #4
1001 SE Bailey Road
Lee's Summit, MO 64081

CONTRACT INFORMATION:

Contract For: General Construction

Date: October 8, 2020

Architect's Project Number:

13-12103-00

Proposal Request Number: 002R

Proposal Request Date:

January 14, 2021

OWNER: *(name and address)*

Lee's Summit R-7 School District
502 SE Transport Drive
Lee's Summit, MO 64063

ARCHITECT: *(name and address)*

DLR Group
7290 West 133rd Street
Overland Park, KS 66213

CONTRACTOR: *(name and address)*

McCown Gordon Construction
850 Main Street
Kansas City, MO 64105

The Owner requests an itemized proposal for changes to the Contract Sum and Contract Time for proposed modifications to the Contract Documents described herein. The Contractor shall submit this proposal within seven (7) days or notify the Architect in writing of the anticipated date of submission.

(Insert a detailed description of the proposed modifications to the Contract Documents and, if applicable, attach or reference specific exhibits.)

Provide detailed pricing for modifications to the Contract Documents per the attachments.

Attachments:

- Revised Sheet C1000 - Cover Sheet
- Revised Sheet C1002 - General Layout Plan
- Revised Sheet C1003 - Site Dimension Plan
- Revised Sheet C1004 - Site Dimension Plan
- Revised Sheet C1005 - Site Dimension Plan
- Revised Sheet C1006 - Site Dimension Plan
- Revised Sheet C1007 - Site Dimension Plan
- Revised Sheet C1008 - Site Dimension Plan
- Revised Sheet C1009 - Site Dimension Plan
- Revised Sheet C1010 - Site Dimension Plan
- Revised Sheet C1011 - Site Dimension Plan
- Revised Sheet C1012 - Grading Plan
- Revised Sheet C1013 - Grading Details
- Revised Sheet C1014 - Grading Details
- Revised Sheet C1015 - Grading Details
- Revised Sheet C1016 - Grading Details
- Revised Sheet C1017 - Grading Details
- Revised Sheet C1018 - Grading Details
- Revised Sheet C1019 - Grading Details
- Revised Sheet C1020 - Grading Details
- Revised Sheet C1021 - Grading Details
- Revised Sheet C1022 - Grading Details
- Added Sheet C1022A - Grading Details
- Revised Sheet C1023 - Grading Details
- Revised Sheet C1024 - Grading Details
- Revised Sheet C1025 - Grading Details
- Revised Sheet C1026 - Utility Plan
- Added Sheet C1026A - Utility Plan
- Revised Sheet C1027 - Utility Plan

Revised Sheet C1028 - Utility Plan
Revised Sheet C1028A - Fire Protection Profiles
Revised Sheet C1028B - Fire Protection Profiles
Revised Sheet C1028C - Sanitary Sewer Service Profiles
Revised Sheet C1029 - Storm Sewer Plan & Profile - Line A
Revised Sheet C1030 - Storm Sewer Plan & Profile - Line A
Revised Sheet C1030A - Storm Sewer Plan & Profile - Line B
Revised Sheet C1031 - Storm Sewer Plan & Profile - Line C
Revised Sheet C1032 - Storm Sewer Plan & Profile - Line C
Revised Sheet C1033 - Storm Sewer Plan & Profile - Line CC
Revised Sheet C1034 - Storm Sewer Plan & Profile - Line D
Revised Sheet C1035 - Storm Sewer Plan & Profile - Line E
Revised Sheet C1036 - Storm Sewer Plan & Profile - Line E
Revised Sheet C1037 - Storm Sewer Plan & Profile - Line E
Revised Sheet C1038 - Storm Sewer Plan & Profile - Line E
Revised Sheet C1039 - Storm Sewer Plan & Profile - Line F
Revised Sheet C1040 - Storm Sewer Plan & Profile - Line F
Revised Sheet C1041 - Storm Sewer Plan & Profile - Line G
Revised Sheet C1042 - Storm Sewer Plan & Profile - Line G
Revised Sheet C1043 - Storm Sewer Plan & Profile - Line G
Revised Sheet C1044 - Storm Sewer Plan & Profile - Line H & J
Revised Sheet C1045 - Storm Sewer Plan & Profile - Line K & L
Revised Sheet C1046 - Storm Sewer Plan & Profile - Line M & N
Revised Sheet C1050 - Standard Details
Revised Sheet C1051 - Standard Details
Revised Sheet C1057 - Standard Details
Revised Sheet C1058 - Standard Details
Added Sheet C1059 - Detention Basin Detail
Added Sheet C1060 - Detention Basin Detail
Added Sheet C1061 - Detention Basin Detail

THIS IS NOT A CHANGE ORDER, A CONSTRUCTION CHANGE DIRECTIVE, OR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED IN THE PROPOSED MODIFICATIONS.

REQUESTED BY THE ARCHITECT:



Dana M. Schwartz, AIA, DLR Group,
a Missouri corporation

PRINTED NAME AND TITLE

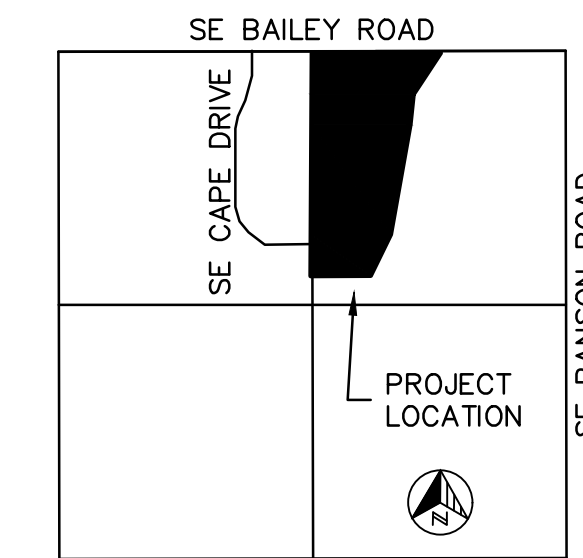
FINAL DEVELOPMENT PLANS
FOR
LEE'S SUMMIT MIDDLE SCHOOL #4
SOUTH SIDE SE BAILEY ROAD AND COUNTRY LANE
NE 1/4 OF SECTION 16, TOWNSHIP 47 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

Sheet List Table	
Sheet Number	Sheet Title
C1000	COVER SHEET
C1001	GENERAL NOTES
C1002	GENERAL LAYOUT PLAN
C1003	SITE DIMENSION PLAN
C1004	SITE DIMENSION PLAN
C1005	SITE DIMENSION PLAN
C1006	SITE DIMENSION PLAN
C1007	SITE DIMENSION PLAN
C1008	SITE DIMENSION PLAN
C1009	SITE DIMENSION PLAN
C1010	SITE DIMENSION PLAN
C1011	SITE DIMENSION PLAN
C1012	GRADING PLAN
C1013	GRADING DETAILS
C1014	GRADING DETAILS
C1015	GRADING DETAILS
C1016	GRADING DETAILS
C1017	GRADING DETAILS
C1018	GRADING DETAILS
C1019	GRADING DETAILS
C1020	GRADING DETAILS
C1021	GRADING DETAILS
C1022	GRADING DETAILS
C1022A	GRADING DETAILS
C1023	GRADING DETAILS
C1024	GRADING DETAILS
C1025	GRADING DETAILS
C1025A	GRADING DETAILS
C1026	UTILITY PLAN
C1026A	UTILITY PLAN
C1027	UTILITY PLAN
C1028	UTILITY PLAN
C1028A	FIRE PROTECTION PROFILES
C1028B	FIRE PROTECTION PROFILES
C1028C	SANITARY SEWER SERVICE PROFILES
C1029	STORM SEWER PLAN & PROFILE - LINE A
C1030	STORM SEWER PLAN & PROFILE - LINE A
C1030A	STORM SEWER PLAN & PROFILE - LINE B
C1031	STORM SEWER PLAN & PROFILE - LINE C
C1032	STORM SEWER PLAN & PROFILE - LINE C
C1033	STORM SEWER PLAN & PROFILE - LINE CC
C1034	STORM SEWER PLAN & PROFILE - LINE D
C1035	STORM SEWER PLAN & PROFILE - LINE E
C1036	STORM SEWER PLAN & PROFILE - LINE E
C1037	STORM SEWER PLAN & PROFILE - LINE E
C1038	STORM SEWER PLAN & PROFILE - LINE E
C1039	STORM SEWER PLAN & PROFILE - LINE F
C1040	STORM SEWER PLAN & PROFILE - LINE F
C1041	STORM SEWER PLAN & PROFILE - LINE G
C1042	STORM SEWER PLAN & PROFILE - LINE G AND GG
C1043	STORM SEWER PLAN & PROFILE - LINE G
C1044	STORM SEWER PLAN & PROFILE - LINE H AND J
C1045	STORM SEWER PLAN & PROFILE - LINE K AND L
C1046	STORM SEWER PLAN & PROFILE - LINE M AND N
C1047	DRAINAGE PLAN
C1048	DRAINAGE CALCULATIONS - 100 YEAR
C1049	DRAINAGE CALCULATIONS - 10 YEAR
C1050	STANDARD DETAILS
C1051	STANDARD DETAILS
C1052	STANDARD DETAILS
C1053	STANDARD DETAILS
C1054	STANDARD DETAILS
C1055	STANDARD DETAILS
C1056	STANDARD DETAILS
C1057	STANDARD DETAILS
C1058	STANDARD DETAILS
C1058A	STANDARD DETAILS
C1059	DETENTION BASIN DETAIL
C1060	DETENTION BASIN DETAIL
C1061	DETENTION BASIN DETAIL



NOT TO SCALE

DEVELOPMENT TEAM CONTACT INFORMATION	
OWNER/DEVELOPER	
KYLE GORRELL DIRECTOR, LEE'S SUMMIT SCHOOL DISTRICT	502 SE TRANSPORT DRIVE LEE'S SUMMIT, MO 64081 816.986-2420
CIVIL ENGINEER	
TERRY PARSONS OLSSON	7301 W. 133RD STREET SUITE 200 OVERLAND PARK, KS 66213 PH: 913.381.1170 FAX: 913.381.1174 tparsons@olsson.com



SECTION 16, T.47N., R.31W.
VICINITY MAP
SCALE: 1" = 2000'

LEGAL DESCRIPTION:

All that part of Northeast Quarter of Section 16, Township 47 North, Range 31 West, in the City of Lee's Summit, Jackson County, Missouri, as described by Timothy Blair Wiswell, Missouri Professional Licensed Surveyor, PLS-2009000067, and being more particularly described as follows:

COMMENCING at the Northwest corner of the Northeast Quarter, of said Section 16--T47N--R31W; thence South 02 degrees 20 minutes 19 seconds West, along the West line of said Northeast Quarter, a distance of 20.00 feet, to a point on the South Right-of-Way line of Bailey Road as now established, said point also being the Northeast corner of Lot 164 of Newberry Second Plat, Lots 1-65, 163 and 164, a subdivision in the City of Lee's Summit, Jackson County, Missouri; thence South 88 degrees 07 minutes 48 seconds East, on the South Right-of-Way line of said Bailey Road, a distance of 1,350.00 feet, to a point; thence South 35 degrees 20 minutes 58 seconds West, departing the South Right-of-Way line of said Bailey Road, a distance of 517.08 feet, to a point; thence South 07 degrees 56 minutes 53 seconds West, a distance of 320.18 feet, to a point; thence South 12 degrees 12 minutes 42 seconds West, a distance of 1,168.07 feet, to a point; thence South 27 degrees 41 minutes 50 seconds West, a distance of 480.35 feet, to a point on a line that is 300.00 feet North of and parallel to the South line of said Northeast Quarter; thence North 88 degrees 04 minutes 43 seconds West, on said parallel line, a distance of 630.96 feet, to a point on the West line of said Northeast Quarter, said point also being on the East line of Newberry Fourth Plat, a subdivision in the City of Lee's Summit, Jackson County, Missouri; thence North 02 degrees 20 minutes 19 seconds East, on the West line of said Northeast Quarter, and on the East line of said Newberry Fourth Plat, and on the East line of Newberry Third Plat, a subdivision in the City of Lee's Summit, Jackson County, Missouri, and on the East line of said Newberry Second Plat, Lots 1-65, 163 and 164, a distance of 2,330.63 feet, to the POINT OF BEGINNING, containing 2,250,248 square feet or 51.6586 acres, more or less.

GENERAL NOTES:

- 1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL 1-800-DIG-RITE, 1(800)344-7143 OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. 11STH01 CALL BEFORE YOU DIG!
2. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND FOR BRINGING THE PROJECT TO THE LINES AND GRADES SHOWN HEREIN. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO FULFILL THE PLANS IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EARTHWORK QUANTITIES AND TO ACCOUNT FOR HAUL IN OR HAUL OFF OF MATERIAL AS NECESSARY TO MEET THE LINES AND GRADES OF THE PLANS EVEN IF QUANTITY ESTIMATES ARE SHOWN WITHIN THESE DOCUMENTS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR IMPORT OR EXPORT OF MATERIAL OR FOR ADJUSTMENTS TO QUANTITY ESTIMATES.
5. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE AMERICAN PUBLIC WORKS ASSOCIATION - KANSAS CITY METROPOLITAN CHAPTER (APWA-KC) AND THE CITY OF LEE'S SUMMIT, MO, EXCEPT WHERE SHOWN OTHERWISE. NOTIFY ENGINEER OF DISCREPANCIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
7. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF MISSOURI STATE LAW WHICH REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM UTILITY COMPANIES.
8. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
9. THE CONTRACTOR SHALL LIMIT THE REMOVAL OF TREES TO THE LIMITS OF DEMOLITION SHOWN ON THE DEMOLITION PLAN.
10. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
11. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
12. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, THE SILT FENCES AND GRAVEL FILTER BAGS SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE FOR THE DURATION OF THE SITE IMPROVEMENTS.
14. ALL HDPE PIPE SHALL BE ADS (N-12) OR APPROVED EQUAL, AND CONFORM TO AASHTO M294 SPECIFICATIONS. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
15. IF PRECAST CONCRETE STORM SEWER STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
19. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. REFER TO THE GEOTECHNICAL REPORT PROVIDED BY CFS ENGINEERS, PROJECT NO. 20-1074 AND DATED JUNE 8, 202 AND ALL ADDENDUMS FOR ADDITIONAL REQUIREMENTS.
20. THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED.
21. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.
22. NO FEDERALLY OWNED MAILBOX MAY BE DISTURBED. THE CONTRACTOR SHALL GIVE AT LEAST TWENTY-FOUR (24) HOURS ADVANCE NOTICE TO THE MANAGER OF DELIVERY AND COLLECTIONS. TAMPERING WITH FEDERAL MAIL FACILITIES MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.
23. THE CONTOUR LINES SHOWN ARE FOR MASS GRADING PURPOSES.
24. EXISTING CONTOURS REPRESENT MASS FINISH GRADE ELEVATIONS.
25. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS OTHERWISE SHOWN BY CONTOURS OR SPOT ELEVATIONS.
26. THE CONTRACTOR SHALL GRADE LANDSCAPE AREAS TO PROVIDE POSITIVE DRAINAGE IN THE BORROW AREA.
27. THE CONTRACTOR SHALL MAKE HIS OWN ASSUMPTIONS ON THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. ALL ROCK EXCAVATION AND REMOVAL SHALL BE INCLUDED IN THE CONTRACTORS' BID.
28. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES AND INFRASTRUCTURE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS.
29. BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON (OLSSON), THE RECIPIENT AGREES FOR ITSELF, ITS SUCCESSORS, ASSIGNS, INSURERS AND ALL THOSE CLAIMING UNDER OR THROUGH IT, THAT BY USING ANY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, ALL USERS AGREE TO BE BOUND BY THE FOLLOWING TERMS. ALL OF THE INFORMATION CONTAINED IN THIS ELECTRONIC FILE IS THE WORK PRODUCT AND INSTRUMENT OF SERVICE OF OLSSON, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS, UNLESS THE SAME HAVE PREVIOUSLY BEEN TRANSFERRED IN WRITING TO THE RECIPIENT. THE INFORMATION CONTAINED IN THE ELECTRONIC FILE IS PROVIDED FOR THE CONVENIENCE OF THE RECIPIENT AND IS PROVIDED IN "AS IS" CONDITION. THE RECIPIENT IS AWARE THAT DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES AND THE PRINTED HARD-COPY ORIGINAL SIGNED AND SEALED DRAWINGS OR REPORTS. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED AND SEALED ORIGINAL DOCUMENTS PREPARED BY OLSSON AND THE ELECTRONIC FILES TRANSFERRED HEREWITH, THE SIGNED AND SEALED ORIGINAL DOCUMENTS SHALL GOVERN. OLSSON SPECIFICALLY DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO ELECTRONIC FILES. IT IS THE RECIPIENT'S RESPONSIBILITY TO CONFIRM THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE AND THAT IF ACCURATELY REFLECTS THE INFORMATION NEEDED BY THE RECIPIENT. THE RECIPIENT SHALL NOT RETRANSMIT THE ELECTRONIC FILE, OR ANY PORTION THEREOF, WITHOUT INCLUDING THIS DISCLAIMER AS PART OF ANY SUCH TRANSMISSION. IN ADDITION, THE RECIPIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS OLSSON, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ANY AND ALL DAMAGES, LIABILITIES, CLAIMS OR COSTS, INCLUDING ATTORNEY'S AND EXPERT WITNESS FEES AND DEFENSE COSTS, ARISING FROM ANY CHANGES MADE BY ANYONE OTHER THAN OLSSON OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OLSSON.
30. DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR ACCOMPANYING THE SHOP DRAWING OR SAMPLE; NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.
31. GENERAL CONSTRUCTION NOTE REGARDING SEQUENCING OF EROSION CONTROL - ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT BASINS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN, EXCEPT THAT SILT FENCE WHICH IS TO BE PLACED ALONG THE BACK OF CURB FOR PROTECTION OF THE STREET, SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR UNTIL ALL UTILITIES ARE IN PLACE. THE SILT FENCE THAT IS PLACED ALONG THE BACK OF THE CURB OR RIGHT-OF-WAY WILL BE INSTALLED IMMEDIATELY AFTER THE CURB IS CONSTRUCTED. EROSION AND SEDIMENTATION CONTROLS ARE TEMPORARY AND MUST BE REMOVED BY THE CONTRACTOR AFTER CONSTRUCTION IS COMPLETE AND THE DISTURBED AREA IS AT LEAST 70% PERMANENTLY VEGETATED.
32. HANDICAP PARKING STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGNAGE AND CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE APWA-KC, CITY OF LEE'S SUMMIT ADA STANDARDS, AND SHALL NOT EXCEED 2.00 PERCENT IN ANY DIRECTION. ACCESSIBLE SIDEWALKS HAVE A MAXIMUM CROSS SLOPE OF 2 PERCENT AND A MAXIMUM LONGITUDINAL SLOPE OF 5 PERCENT.
33. ALL WATER LINES SHALL BE INSTALLED PER THE LATEST STANDARDS AND SPECIFICATIONS OF THE APWA-KC AND THE CITY OF LEE'S SUMMIT, MO. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.
34. ALL WATER LINES SHALL BE INSTALLED PER CITY STANDARDS. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.
35. ALL EXTERIOR CONCRETE SHALL BE KCMMB-4K AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, SHALL MEET KCMMB STANDARDS AND SPECIFICATIONS, AND SHALL BE AIR ENTRAINED. FLYASH IS NOT A SUITABLE REPLACEMENT FOR PORTLAND CEMENT.
36. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND.
37. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS):
A. CONTROL JOINTS SPACED AT INTERVALS NOT GREATER THAN 12 FEET AND TOOLED TO 1/3 THE SLAB THICKNESS.
B. CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.
C. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 1/2" NONEXTRUDING FILLER, CLOSED-CELL FOAM RUBBER OR A BITUMEN-TREATED FIBER-BOLSSONRD, AND WITH A THICKENED EDGE, INCREASED BY 20 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET.
D. ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL.
38. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS NOT SHOWN ON PLANS. CONTRACTOR SHALL INSTALL NECESSARY CONDUIT PRIOR TO PAVEMENT INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION SCOPE WITH SERVICE PROVIDER.
39. ANY CONTRACTOR BIDDING ANY PORTION OF THIS WORK SHALL HAVE IN HIS OR HER POSSESSION A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND BE FAMILIAR WITH ALL SCOPES OF WORK AND TRADES TO UNDERSTAND THEIR INTERACTIONS.
40. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. REFER TO THE GEOTECHNICAL REPORT PROVIDED BY OLSSON DATED 01/09/2019 AND ALL ADDENDUMS.
41. SITE PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT PREPARED BY OLSSON DATED 01/09/2019 AND ALL ADDENDUMS.

GENERAL UTILITY NOTES

- 39. THE SIZE AND LOCATION OF SERVICES SHALL BE VERIFIED WITH THE ARCHITECTURAL AND MEP PLANS PRIOR TO CONSTRUCTION. IF DISCREPANCIES EXIST, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
40. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SLEEVING UNDER PAVING AREAS WHERE NECESSARY.
41. INSTALL ALL PIPE LENGTHS, BENDS AND FITTINGS NECESSARY FOR UTILITY CONNECTIONS.
42. CONTRACTOR SHALL VERIFY ALL CROSSING ELEVATIONS AND LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION OF STORM LINES AND ALL UTILITY SERVICE CONNECTIONS. ANY CONFLICTS SHALL BE MADE KNOWN TO THE ENGINEER AND RESOLVED PRIOR TO CONSTRUCTION.
43. CONTRACTOR TO VERIFY FIRE SERVICE SIZE WITH SPRINKLER DESIGNER/CONTRACTOR PRIOR TO CONSTRUCTION AND INSTALLATION OF METER/BACKFLOW PREVENTER AND SERVICES. NOTIFY ENGINEER OF ALTERATIONS.
44. CONTRACTOR RESPONSIBLE FOR PAYING ALL TAP AND CONNECTION FEES AND SHALL CONTRACT AND PAY FOR ANY REQUIRED SUB CONTRACTORS BY UTILITY COMPANIES.
45. REFERENCE MEP PLANS FOR BUILDING CONNECTIONS.
46. CONTRACTOR TO REPAIR ALL AREA DAMAGED BY CONSTRUCTION TO EXISTING CONDITIONS OR BETTER.
47. BACK FLOW PREVENTION TO BE PROVIDED INSIDE BUILDING. SEE MEP AND ARCHITECTURAL PLANS FOR DETAILS.
48. LOCATION FOR POWER SHOWN IS APPROXIMATE AND SUBJECT TO CHANGE. CONTRACTOR TO VERIFY FINAL LOCATION AND DESIGN WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.
49. CONTRACTOR TO COORDINATE LIGHT POLE LOCATIONS WITH OWNER, STORM SEWER INSTALLATION AND UTILITY COMPANIES PRIOR TO INSTALLATION TO AVOID CONFLICTS. NOTIFY ENGINEER AND ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION.
50. WATER METER CANNOT BE INSTALLED IN THE BUILDING.
51. CONTRACTOR SHALL COORDINATE CABLE/FIBER OPTIC CONDUIT AND SERVICE INSTALLATION WITH UTILITY COMPANY.
52. ALL TAPS AND CONNECTIONS FOR FIRE AND DOMESTIC WATER SERVICES ARE TO BE IN ACCORDANCE WITH THE CITY OF LEE' SUMMIT, MO, STANDARDS AND SPECIFICATIONS.
53. CONTRACTOR TO COORDINATE POWER ROUTING TO MONUMENT SIGNS NOT SHOWN ON PLANS.
54. ALL ROOF DRAIN AND DOWNSPOUT HEADER PIPES SHALL BE 12" HDPE PIPE AND INSTALLED AT 1.00% MINIMUM SLOPE UNLESS OTHERWISE NOTED WITHIN THIS PLAN. ALL BENDS AND FITTINGS NEEDED TO BUILD ROUTING AS SHOWN SHALL BE INCLUDED IN BID.
55. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY FITTINGS TO COMPLETE ROOF DRAIN AND DOWNSPOUT CONNECTIONS TO BUILDINGS. ALL ROOF DRAIN AND DOWNSPOUT CONNECTIONS / FITTINGS, INCLUDING BUT NOT LIMITED TO BENDS AND TEES, SHALL BE MADE OF HDPE PIPE UNLESS OTHERWISE NOTED WITHIN THIS PLAN.

PAVEMENT MARKING NOTES:

- 1. PAVEMENT MARKING PAINT: LATEX, WATER-BASE EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952 WITH DRYING TIME OF LESS THAN 45 MINUTES.
2. DO NOT APPLY PAVEMENT MARKING PAINT UNTIL LAYOUT, COLORS AND PLACEMENT HAVE BEEN VERIFIED WITH THE ARCHITECT.
3. ALLOW PAVING TO AGE FOR 24 HOURS BEFORE MARKING.
4. SWEEP AND CLEAN SURFACE PRIOR TO INSTALLING PAVEMENT MARKINGS.
5. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE MARKINGS WITH UNIFORM STRAIGHT EDGES. PROVIDE A MINIMUM WET FILM THICKNESS OF 15 MILS.
6. THIS WORK SHALL CONSIST OF FURNISHING AND APPLYING PAINT ON PAVEMENT SURFACES, IN TRAFFIC LANES, PARKING BAYS, AREAS RESTRICTED TO HANDICAPPED PERSONS, CROSSWALKS, AND OTHER DETAIL PAVEMENT MARKINGS, IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.
7. DETAILS NOT SHOWN SHALL BE IN CONFORMITY WITH THE STATE STANDARDS FOR TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND SIMILAR REQUIREMENTS ESTABLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
8. ALL PARKING LOT STRIPING SHALL BE SINGLE LINE 4" WIDE AS PER THE SITE PLANS.
9. PAINT FOR MARKING PAVEMENT SHALL CONFORM TO FEDERAL HIGHWAY MARKING STANDARDS. USE SHERWIN WILLIAMS PROMAR TRAFFIC MARKING PAINT, COLORS TO MATCH THE EXISTING ADJACENT INSTALLATIONS. USE FLAT BLACK, WHITE OR YELLOW, WHERE APPROPRIATE. UNLESS OTHERWISE DIRECTED, USE THE FOLLOWING:
A. BLACKTOP OR BITUMINOUS ASPHALT PAVING: USE WHITE COLOR.
B. PORTLAND CEMENT CONCRETE PAVING: USE YELLOW COLOR.
C. HANDICAPPED ACCESSIBLE PARKING AND ENTRYPWAYS: USE WHITE COLOR WITH WHITE STRIPES.
D. PROVIDE PAINTED CURBS AT FIRE LANE DESIGNATIONS PER FIRE MARSHAL REQUIREMENTS.
10. APPLY ALL MARKINGS USING APPROVED MECHANICAL EQUIPMENT (WITH PROVISIONS FOR CONSTANT AGITATION OF PAINT), CAPABLE OF APPLYING THE MARKING WIDTHS AS SHOWN. USE PNEUMATIC SPRAY GUNS FOR HAND APPLICATION OF PAINT. ALL PAINTING EQUIPMENT AND OPERATIONS SHALL BE UNDER THE CONTROL OF EXPERIENCED TECHNICIANS THOROUGHLY FAMILIAR WITH EQUIPMENT AND MATERIALS AND MARKING LAYOUTS.
11. DETAIL PAVEMENT MARKINGS SHALL BE THAT MARKING, EXCLUSIVE OF ACTUAL TRAFFIC LANE MARKING, AT EXIT AND ENTRANCE ISLANDS AND TURNOUTS, ON CURBS, AT CROSSWALKS, AT PARKING BAYS AND AT SUCH OTHER LOCATIONS AS SHOWN. HANDICAPPED PARKING SPACES SHALL BE MARKED BY THE INTERNATIONAL HANDICAPPED SYMBOL AT INDICATED PARKING SPACES. USE A SUITABLE TEMPLATE THAT WILL PROVIDE A PAVEMENT MARKING WITH TRUE, SHARP EDGES AND ENDS.

CONTROL INFORMATION:

BASIS OF COORDINATES SHOWN HEREON ARE BASED ON MISSOURI STATE PLANE COORDINATE SYSTEM, WEST ZONE, AND SCALED TO GROUND COORDINATES UTILIZING A COMBINED ADJUSTMENT FACTOR OF 0.9998986, HOLDING JACKSON COUNTY GPS CONTROL POINT JA-45 AS A BASE POINT. DISTANCES SHOWN HEREON ARE GROUND DISTANCES IN US SURVEY FEET.

MO DNR JA-45: KC METRO ALUMINUM GRS DISK SET IN CONCRETE ±3" BELOW PAVEMENT ON SOUTH SIDE OF SE BAILEY RD. STAMPED "JA-45". N: 994990.346 E: 2834265.611 ELEV.: 1046.26'

OLSSON #100: SET 1/2" REBAR WITH OLSSON CONTROL CAP. SET IN THE GRASS ON THE NORTH SIDE OF SE BAILEY RD. N: 993595.83 E: 2831586.70 ELEVATION: 1032.16'

TIES: 1. SW 66.88' TO THE NE CORNER OF THE CONCRETE SIDEWALK ON THE SOUTH SIDE OF SE BAILEY RD. 2. SSW 82.19' TO THE CENTER OF A POWER POLE ON THE SOUTH SIDE OF SE BAILEY RD. 3. EAST 254.38' TO THE NW CORNER OF A CONCRETE CURB INLET ON THE NORTH SIDE OF SE BAILEY RD. 4. EAST ±298' TO THE CENTERLINE OF COUNTRY LN. ON THE NORTH SIDE OF SE BAILEY RD.

OLSSON #101: SET 1/2" REBAR WITH OLSSON CONTROL CAP. SET IN THE GRASS ON THE NORTH SIDE OF SE BAILEY RD. N: 993561.11 E: 2832755.84 ELEVATION: 1014.26'

TIES: 1. EAST 80.94' TO THE NW CORNER OF A CONCRETE CURB INLET ON THE NORTH SIDE OF SE BAILEY RD. 2. SE 91.53' TO THE SW CORNER OF A CONCRETE CURB INLET ON THE SOUTH SIDE OF SE BAILEY RD. 3. NE 94.82' TO THE SW CORNER OF A CONCRETE OVERTFLOW STRUCTURE ON THE SOUTH SIDE OF A POND ON THE NORTH SIDE OF SE BAILEY RD. 4. WEST ±871' TO THE CENTERLINE OF COUNTRY LN. ON THE NORTH SIDE OF SE BAILEY RD.

OLSSON #102: SET 1/2" REBAR WITH OLSSON CONTROL CAP. SET IN THE GRASS ±58' EAST OF THE EAST END OF SE 15TH ST. N: 992084.37 E: 2831530.63 ELEVATION: 1012.56'

TIES: 1. NW 67.97' TO THE CENTER OF A WATER VALVE ON THE NORTH SIDE OF SE 15TH ST. 2. WEST 59.33' TO THE CENTER OF A SANITARY MANHOLE ON THE SOUTH SIDE OF SE 15TH ST. 3. WSW 57.28' TO THE SE CORNER OF THE EAST END OF THE CONCRETE SIDEWALK ON THE SOUTH SIDE OF SE 15TH ST. 4. NORTH ±15' TO THE EASTERLY PROLONGATION OF THE CENTERLINE OF SE 15TH ST.

OLSSON #103: SET 1/2" REBAR WITH OLSSON CONTROL CAP. SET IN THE GRASS ±62' EAST OF THE EAST END OF SE CAPE DR. N: 991553.72 E: 2831514.48 ELEVATION: 1000.43'

TIES: 1. NW 76.12' TO THE CENTER OF A TELEPHONE PEDESTAL ON THE NORTH SIDE OF SE CAPE DR. 2. SW 67.00' TO THE CENTER OF A WATER VALVE ON THE SOUTH SIDE OF SE CAPE DR. 3. SW 70.06' TO THE SE CORNER OF THE EAST END OF THE CONCRETE SIDEWALK ON THE SOUTH SIDE OF SE CAPE DR. 4. NORTH ±4' TO THE EASTERLY PROLONGATION OF THE CENTERLINE OF SE CAPE DR.

BASIS OF ELEVATIONS SHOWN HEREON ARE BASED UPON NAVD '88 UTILIZING MODOOT'S CONTINUOUSLY MONITORED GNSS SYSTEM AND HOLDING THE ELEVATION OF JA-45 ELEVATION 1046.26'

OLSSON BENCHMARK #1: SET CHISELED SQUARE CUT ON CENTER FRONT FACE OF A CURB INLET ON NORTH SIDE OF SE BAILEY RD. ±42' WEST OF COUNTRY LN. ELEVATION: 1028.43'

OLSSON BENCHMARK #2: SET CHISELED SQUARE CUT ON SE CORNER OF OVERTFLOW STRUCTURE ON SOUTH SIDE OF POND ON NORTH SIDE OF SE BAILEY RD. ±962' EAST OF COUNTRY LN. ELEVATION: 1017.13'

OLSSON BENCHMARK #3: SET CHISELED "4" CUT ON SSE FLANGE BOLT OF FIRE HYDRANT IN THE NW QUADRANT OF THE INTERSECTION OF SE 15TH ST. AND SE DALTON DR. ELEVATION: 1016.27'

OLSSON BENCHMARK #4: SET CHISELED SQUARE CUT ON EDGE OF SIDEWALK AT THE WEST CENTER OF A CURB INLET IN THE NW QUADRANT OF THE INTERSECTION OF SE CAPE DR. AND SE DALTON DR. ELEVATION: 999.24'

NOTE: ACCORDING TO MDNR STATE OIL & GAS COUNSEL THERE ARE NO OIL AND GAS WELLS LOCATED WITHIN OR ADJACENT TO THE PROPERTY. THE ENTIRE PROPERTY IS DESIGNATED "ZONE X - AREA OF MINIMAL FLOOD HAZARD" AS DEFINED BY FEMA PANEL 29095C0438G - EFFECTIVE DATE JANUARY 20, 2017



THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.

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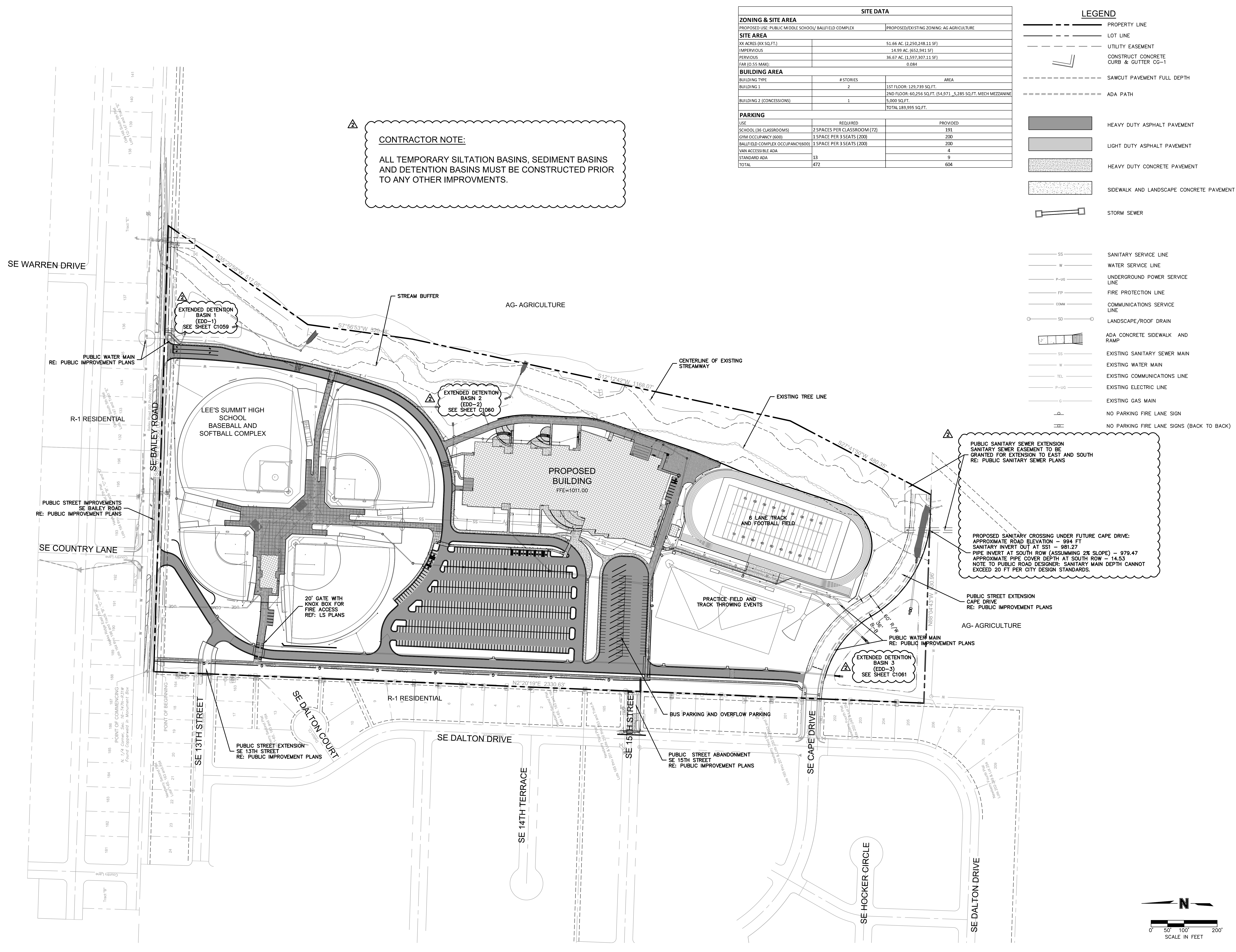
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PACKAGE 2 - STRUCTURAL & SITE UTILITIES
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GENERAL NOTES
C1001

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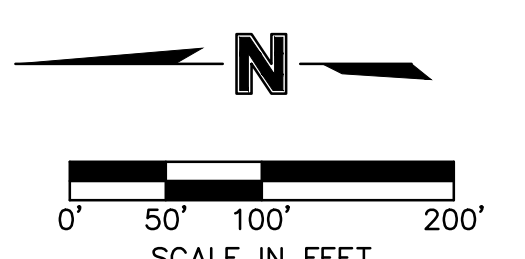
CONTRACTOR NOTE:
 ALL TEMPORARY SILTATION BASINS, SEDIMENT BASINS AND DETENTION BASINS MUST BE CONSTRUCTED PRIOR TO ANY OTHER IMPROVMENTS.

SITE DATA		
ZONING & SITE AREA		
PROPOSED USE: PUBLIC MIDDLE SCHOOL/ BALLFIELD COMPLEX	PROPOSED/EXISTING ZONING: AG AGRICULTURE	
SITE AREA		
XX ACRES (XX SQ.FT.)	51.66 AC. (2,250,248.11 SF)	
IMPERVIOUS	14.99 AC. (652,941 SF)	
PERVIOUS	36.67 AC. (1,597,307.11 SF)	
FAR (0.55 MAX):	0.084	
BUILDING AREA		
BUILDING TYPE	# STORIES	AREA
BUILDING 1	2	1ST FLOOR: 129,739 SQ.FT.
BUILDING 2 (CONCESSIONS)	1	2ND FLOOR: 60,256 SQ.FT. (54,971 - 5,285 SQ.FT. MECH. MEZZANINE)
		5,000 SQ.FT.
		TOTAL 189,995 SQ.FT.
PARKING		
USE	REQUIRED	PROVIDED
SCHOOL (36 CLASSROOMS)	2 SPACES PER CLASSROOM (72)	191
GYM OCCUPANCY (600)	1 SPACE PER 3 SEATS (200)	200
BALLFIELD COMPLEX OCCUPANCY(600)	1 SPACE PER 3 SEATS (200)	200
VAN ACCESSIBLE ADA		4
STANDARD ADA	13	9
TOTAL	472	604

- LEGEND**
- PROPERTY LINE
 - - - LOT LINE
 - - - UTILITY EASEMENT
 - - - CONSTRUCT CONCRETE CURB & GUTTER CG-1
 - - - SAWCUT PAVEMENT FULL DEPTH
 - - - ADA PATH
 - HEAVY DUTY ASPHALT PAVEMENT
 - LIGHT DUTY ASPHALT PAVEMENT
 - HEAVY DUTY CONCRETE PAVEMENT
 - SIDEWALK AND LANDSCAPE CONCRETE PAVEMENT
 - STORM SEWER
 - SS SANITARY SERVICE LINE
 - W WATER SERVICE LINE
 - P-UG UNDERGROUND POWER SERVICE LINE
 - FP FIRE PROTECTION LINE
 - COMM COMMUNICATIONS SERVICE LINE
 - SD LANDSCAPE/ROOF DRAIN
 - ADA CONCRETE SIDEWALK AND RAMP
 - SS EXISTING SANITARY SEWER MAIN
 - W EXISTING WATER MAIN
 - TEL EXISTING COMMUNICATIONS LINE
 - P-UG EXISTING ELECTRIC LINE
 - G EXISTING GAS MAIN
 - NO PARKING FIRE LANE SIGN
 - NO PARKING FIRE LANE SIGNS (BACK TO BACK)

PUBLIC SANITARY SEWER EXTENSION
 SANITARY SEWER EASEMENT TO BE GRANTED FOR EXTENSION TO EAST AND SOUTH RE: PUBLIC SANITARY SEWER PLANS

PROPOSED SANITARY CROSSING UNDER FUTURE CAPE DRIVE:
 APPROXIMATE ROAD ELEVATION - 994 FT
 SANITARY INVERT OUT AT SSI - 981.27
 PIPE INVERT AT SOUTH ROW (ASSUMING 2% SLOPE) - 979.47
 APPROXIMATE PIPE COVER DEPTH AT SOUTH ROW - 14.53
 NOTE TO PUBLIC ROAD DESIGNER: SANITARY MAIN DEPTH CANNOT EXCEED 20 FT PER CITY DESIGN STANDARDS.



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 7301 West 133rd Street, Suite 200
 Overland Park, KS 66214-7750 TEL: 913.381.1170 www.olsson.com

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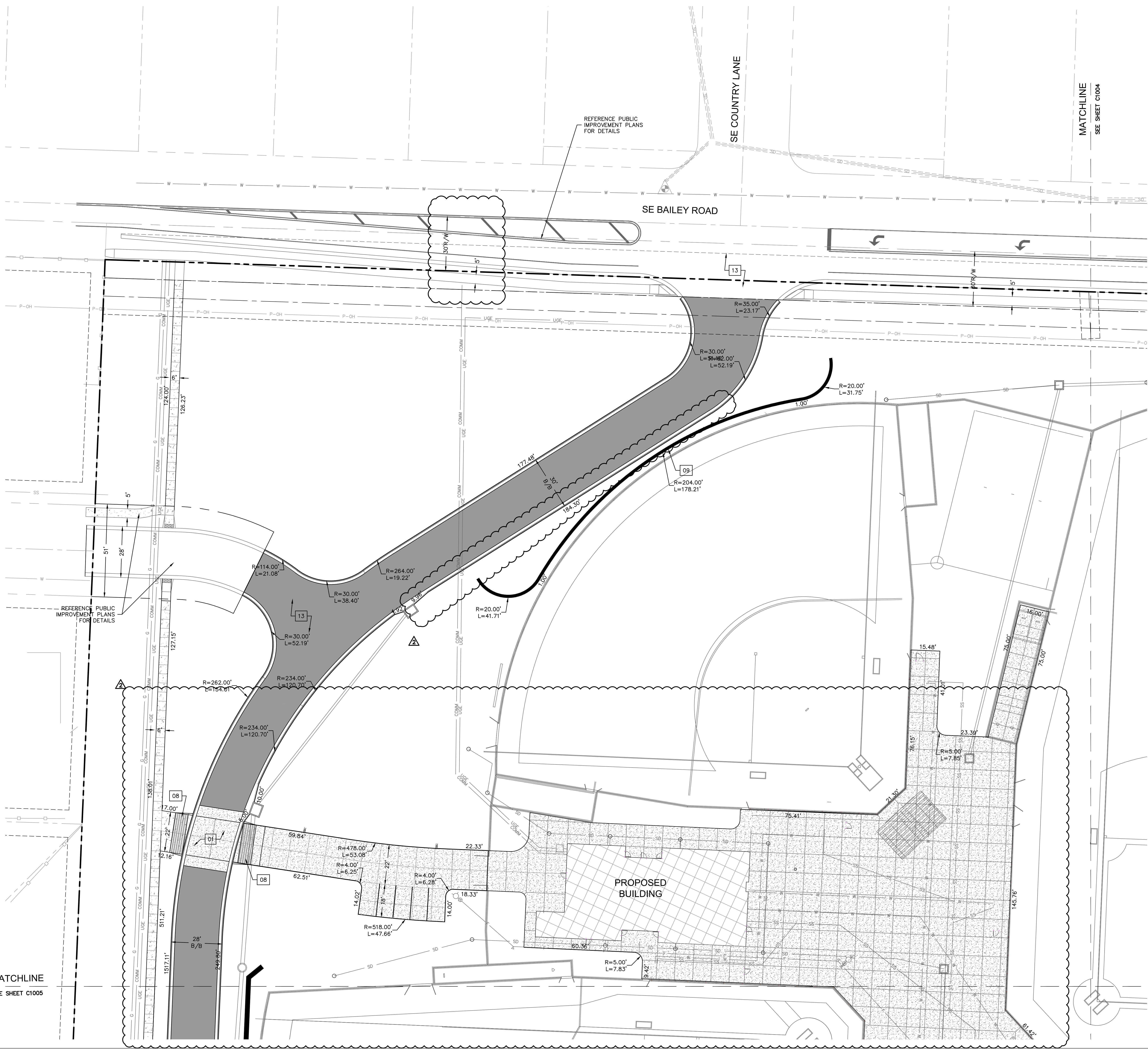
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13-20102-00
 GENERAL LAYOUT PLAN

C1002

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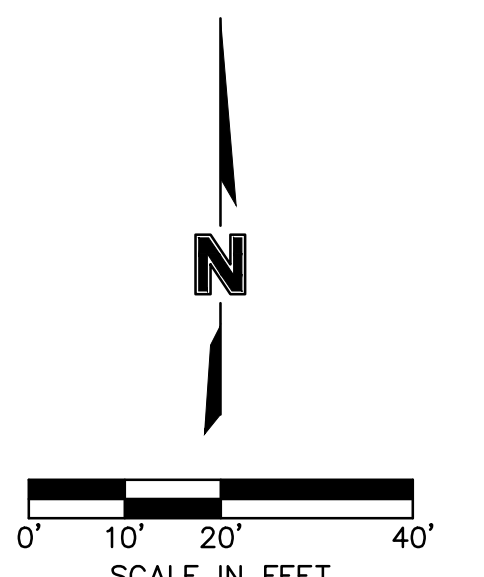
MATCHLINE
SEE SHEET C1005



LEGEND

	PROPERTY LINE
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	SAWCUT PAVEMENT FULL DEPTH
	COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
	6" PCC CONCRETE PAVEMENT
	CONCRETE SIDEWALK PAVEMENT
	ASPHALT PAVEMENT - HEAVY DUTY
	ASPHALT PAVEMENT - LIGHT DUTY
	ADA CONCRETE SIDEWALK AND RAMP. RE: DETAILS
	PARKING STALLS
	STORM SEWER RE: STORM SEWER PLAN & PROFILE

- CONSTRUCTION KEYNOTES:**
- 01 HEAVY DUTY CONCRETE PAVEMENT. RE: DETAILS
 - 02 SPEED TABLE. RE: DETAILS
 - 03 DETENTION BASIN. RE: DETAILS
 - 04 REMOVABLE CONCRETE BOLLARD. RE: ARCH
 - 05 ADA PARKING, STRIPING AND SIGNAGE. RE: DETAILS
 - 06 CONCRETE STAIRS AND HANDRAIL - BOTH SIDES. RE: ARCH
 - 07 ADA RAMP WITH HANDRAIL - BOTH SIDES. RE: DETAILS
 - 08 ADA RAMP. RE: DETAILS
 - 09 CAST IN PLACE RETAINING WALL WITH GUARD RAIL. RE: STRUCTURAL PLANS
 - 10 MODULAR BLOCK RETAINING WALL WITH FENCE. RE: STRUCTURAL AND ARCH
 - 11 MODULAR BLOCK RETAINING WALL
 - 12 TRASH DUMPSTER
 - 13 PUBLIC IMPROVEMENTS - RE: PUBLIC IMPROVEMENT PLANS
 - 14 PRE-FABRICATED METAL STAIRS AND HANDRAIL. RE: ARCH
 - 15 CONCRETE STOPPING BLOCK. RE: DETAILS
 - 16 PAVEMENT STRIPING. RE: DETAILS
 - 17 HARDSCAPE JOINT PATTERN. RE: ARCH



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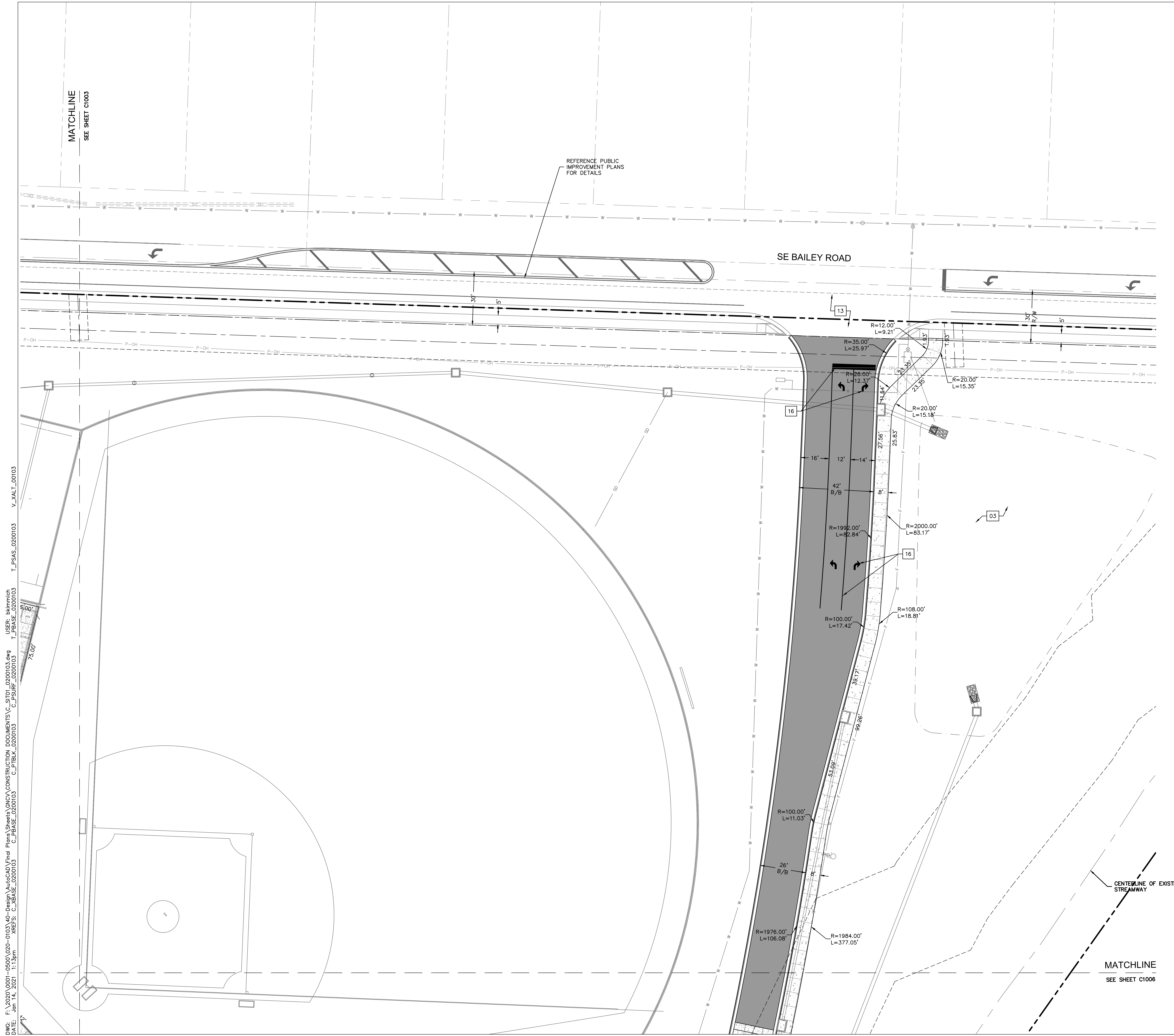
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 SITE DIMENSION
 PLAN

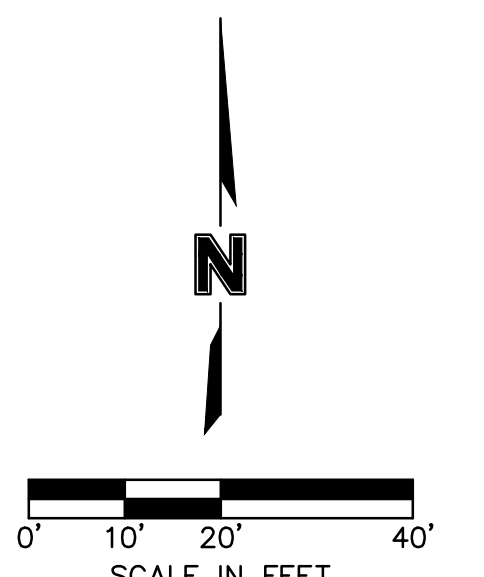
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LEGEND

	PROPERTY LINE
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	SAWCUT PAVEMENT FULL DEPTH
	COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
	6" PCC CONCRETE PAVEMENT
	CONCRETE SIDEWALK PAVEMENT
	ASPHALT PAVEMENT - HEAVY DUTY
	ASPHALT PAVEMENT - LIGHT DUTY
	ADA CONCRETE SIDEWALK AND RAMP. RE: DETAILS
	PARKING STALLS
	STORM SEWER RE: STORM SEWER PLAN & PROFILE

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 - 08 ADA RAMP. RE: DETAILS
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 - 10 MODULAR BLOCK RETAINING WALL WITH FENCE. RE: STRUCTURAL AND ARCH
 - 11 MODULAR BLOCK RETAINING WALL
 - 12 TRASH DUMPSTER
 - 13 PUBLIC IMPROVEMENTS - RE: PUBLIC IMPROVEMENT PLANS
 - 14 PRE-FABRICATED METAL STAIRS AND HANDRAIL. RE: ARCH
 - 15 CONCRETE STOPPING BLOCK RE: DETAILS
 - 16 PAVEMENT STRIPING RE: DETAILS
 - 17 HARDSCAPE JOINT PATTERN RE: ARCH



MATCHLINE
SEE SHEET C1003

REFERENCE PUBLIC IMPROVEMENT PLANS FOR DETAILS

SE BAILEY ROAD

CENTERLINE OF EXISTING STREAMWAY

MATCHLINE
SEE SHEET C1006

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Overland Park, KS 66213-4750
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SITE DIMENSION
PLAN

C1004

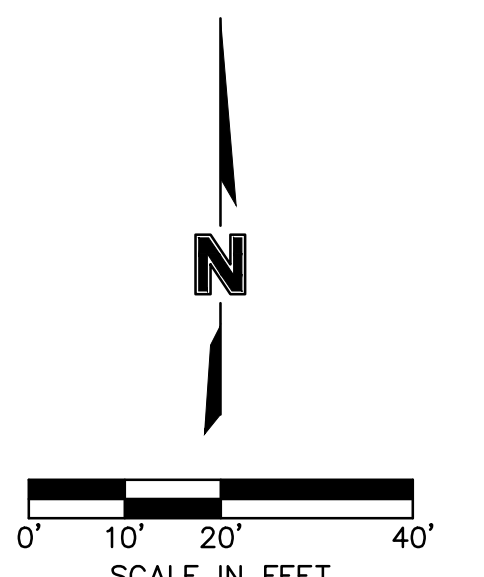


LEGEND

- PROPERTY LINE
- CONCRETE CURB & GUTTER TYPE "CG-1"
- CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
- SAWCUT PAVEMENT FULL DEPTH
- COMMERCIAL ENTRANCE
- 8" PCC CONCRETE PAVEMENT
- 6" PCC CONCRETE PAVEMENT
- CONCRETE SIDEWALK PAVEMENT
- ASPHALT PAVEMENT - HEAVY DUTY
- ASPHALT PAVEMENT - LIGHT DUTY
- ADA CONCRETE SIDEWALK AND RAMP. RE: DETAILS
- PARKING STALLS
- STORM SEWER RE: STORM SEWER PLAN & PROFILE

CONSTRUCTION KEYNOTES:

- 01 HEAVY DUTY CONCRETE PAVEMENT. RE: DETAILS
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- 11 MODULAR BLOCK RETAINING WALL
- 12 TRASH DUMPSTER
- 13 PUBLIC IMPROVEMENTS - RE: PUBLIC IMPROVEMENT PLANS
- 14 PRE-FABRICATED METAL STAIRS AND HANDRAIL. RE: ARCH
- 15 CONCRETE STOPPING BLOCK. RE: DETAILS
- 16 PAVEMENT STRIPING. RE: DETAILS
- 17 HARDSCAPE JOINT PATTERN. RE: ARCH



MATCHLINE
SEE SHEET C1003

MATCHLINE
SEE SHEET C1006

MATCHLINE
SEE SHEET C1007

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OLSSON, CIVIL ENGINEERING
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 TEL: 913.381.1170 www.olsson.com

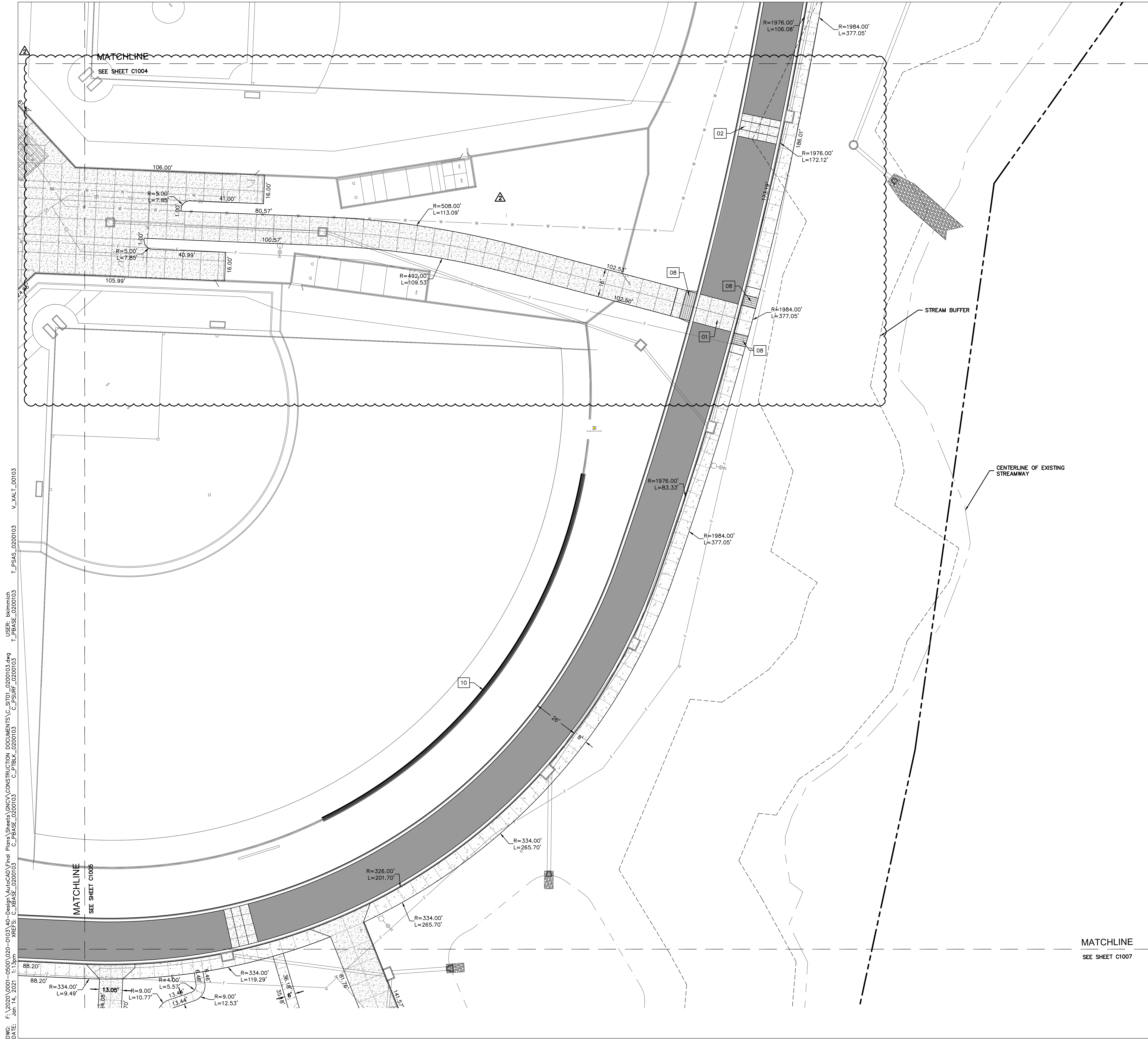
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 SITE DIMENSION
 PLAN

C1005

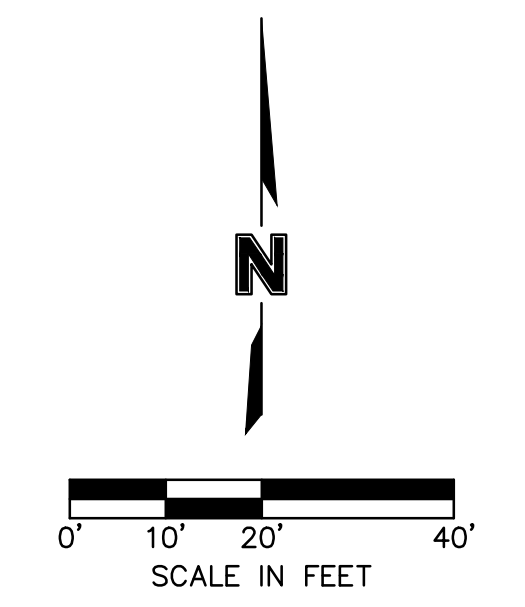


LEGEND

	PROPERTY LINE
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	SAWCUT PAVEMENT FULL DEPTH
	COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
	6" PCC CONCRETE PAVEMENT
	CONCRETE SIDEWALK PAVEMENT
	ASPHALT PAVEMENT - HEAVY DUTY
	ASPHALT PAVEMENT - LIGHT DUTY
	ADA CONCRETE SIDEWALK AND RAMP. RE: DETAILS
	PARKING STALLS
	STORM SEWER RE: STORM SEWER PLAN & PROFILE

CONSTRUCTION KEYNOTES:

	01 HEAVY DUTY CONCRETE PAVEMENT. RE: DETAILS
	02 SPEED TABLE. RE: DETAILS
	03 DETENTION BASIN. RE: DETAILS
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	05 ADA PARKING, STRIPING AND SIGNAGE. RE: DETAILS
	06 CONCRETE STAIRS AND HANDRAIL - BOTH SIDES. RE: ARCH
	07 ADA RAMP WITH HANDRAIL - BOTH SIDES. RE: DETAILS
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	14 PRE-FABRICATED METAL STAIRS AND HANDRAIL. RE: ARCH
	15 CONCRETE STOPPING BLOCK. RE: DETAILS
	16 PAVEMENT STRIPING. RE: DETAILS
	17 HARDSCAPE JOINT PATTERN. RE: ARCH



MATCHLINE
SEE SHEET C1007

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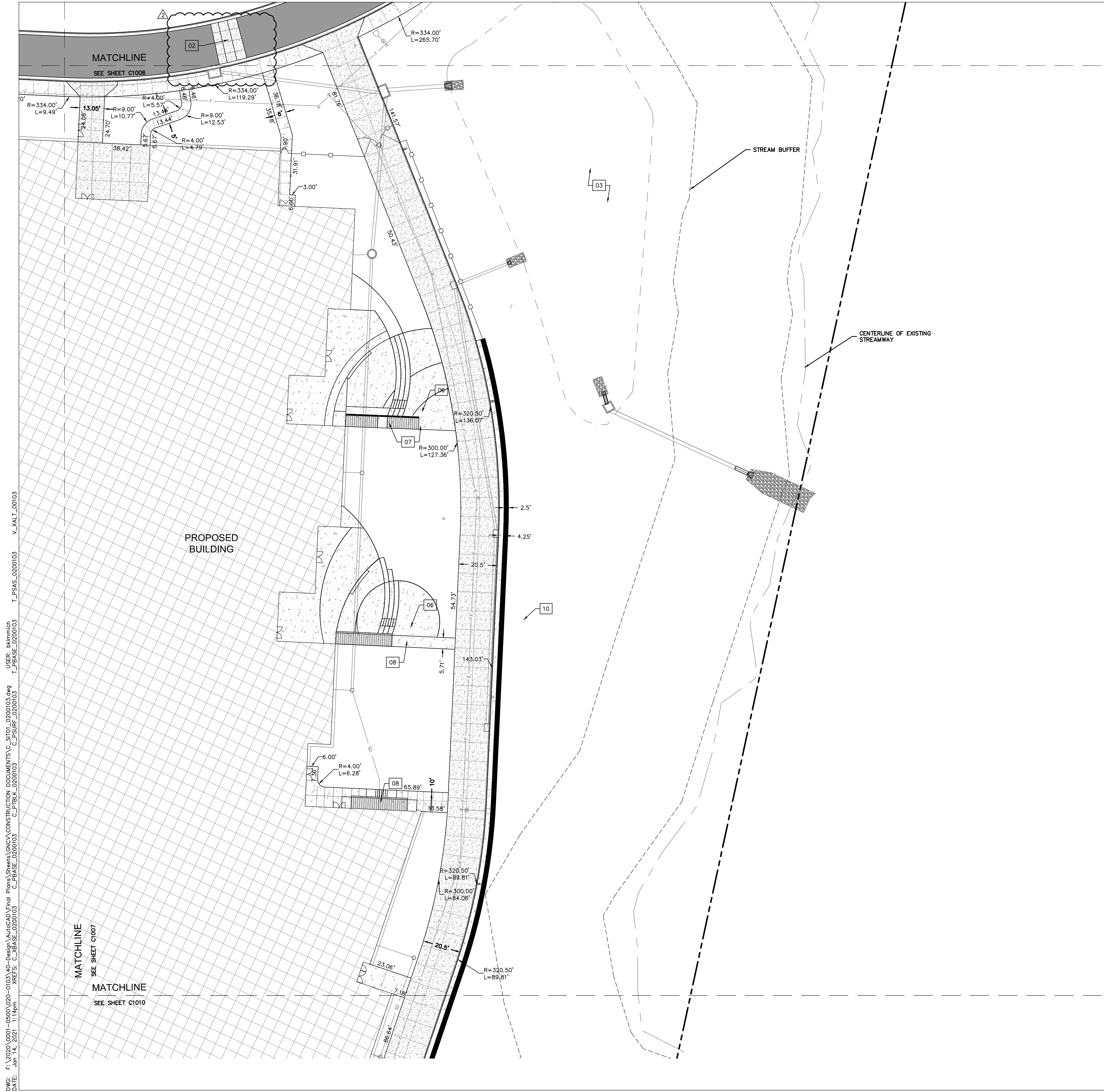
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 LEE'S SUMMIT R-7 SCHOOL DISTRICT
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 LEE'S SUMMIT, MO 64881

PACKAGE 2-
 STRUCTURAL & SITE
 UTILITIES
 ISSUED FOR PERMIT
 08/28/20

PRO02R 01.14.21

13-20102-00
 SITE DIMENSION
 PLAN

C1006

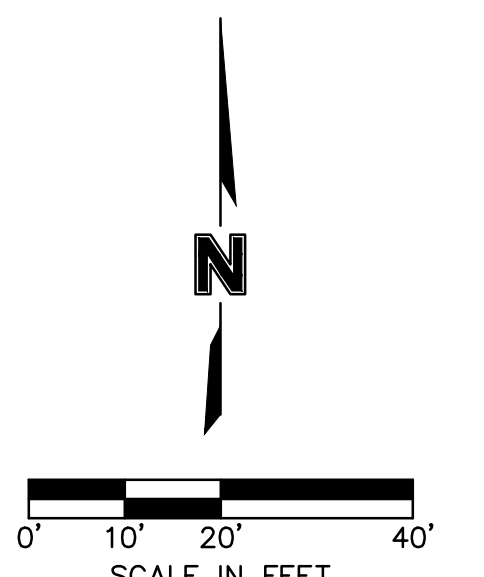


LEGEND

	PROPERTY LINE
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	SAWCUT PAVEMENT FULL DEPTH
	COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
	6" PCC CONCRETE PAVEMENT
	CONCRETE SIDEWALK PAVEMENT
	ASPHALT PAVEMENT - HEAVY DUTY
	ASPHALT PAVEMENT - LIGHT DUTY
	ADA CONCRETE SIDEWALK AND RAMP. RE: DETAILS
	PARKING STALLS
	STORM SEWER RE: STORM SEWER PLAN & PROFILE

CONSTRUCTION KEYNOTES:

01	HEAVY DUTY CONCRETE PAVEMENT. RE: DETAILS
02	SPEED TABLE. RE: DETAILS
03	DETENTION BASIN. RE: DETAILS
04	REMOVABLE CONCRETE BOLLARD. RE: ARCH
05	ADA PARKING, STRIPING AND SIGNAGE. RE: DETAILS
06	CONCRETE STAIRS AND HANDRAIL - BOTH SIDES. RE: ARCH
07	ADA RAMP WITH HANDRAIL - BOTH SIDES. RE: DETAILS
08	ADA RAMP. RE: DETAILS
09	CAST IN PLACE RETAINING WALL WITH GUARD RAIL. RE: STRUCTURAL PLANS
10	MODULAR BLOCK RETAINING WALL WITH FENCE. RE: STRUCTURAL AND ARCH
11	MODULAR BLOCK RETAINING WALL
12	TRASH DUMPSTER
13	PUBLIC IMPROVEMENTS - RE: PUBLIC IMPROVEMENT PLANS
14	PRE-FABRICATED METAL STAIRS AND HANDRAIL. RE: ARCH
15	CONCRETE STOPPING BLOCK. RE: DETAILS
16	PAVEMENT STRIPING. RE: DETAILS
17	HARDSCAPE JOINT PATTERN. RE: ARCH



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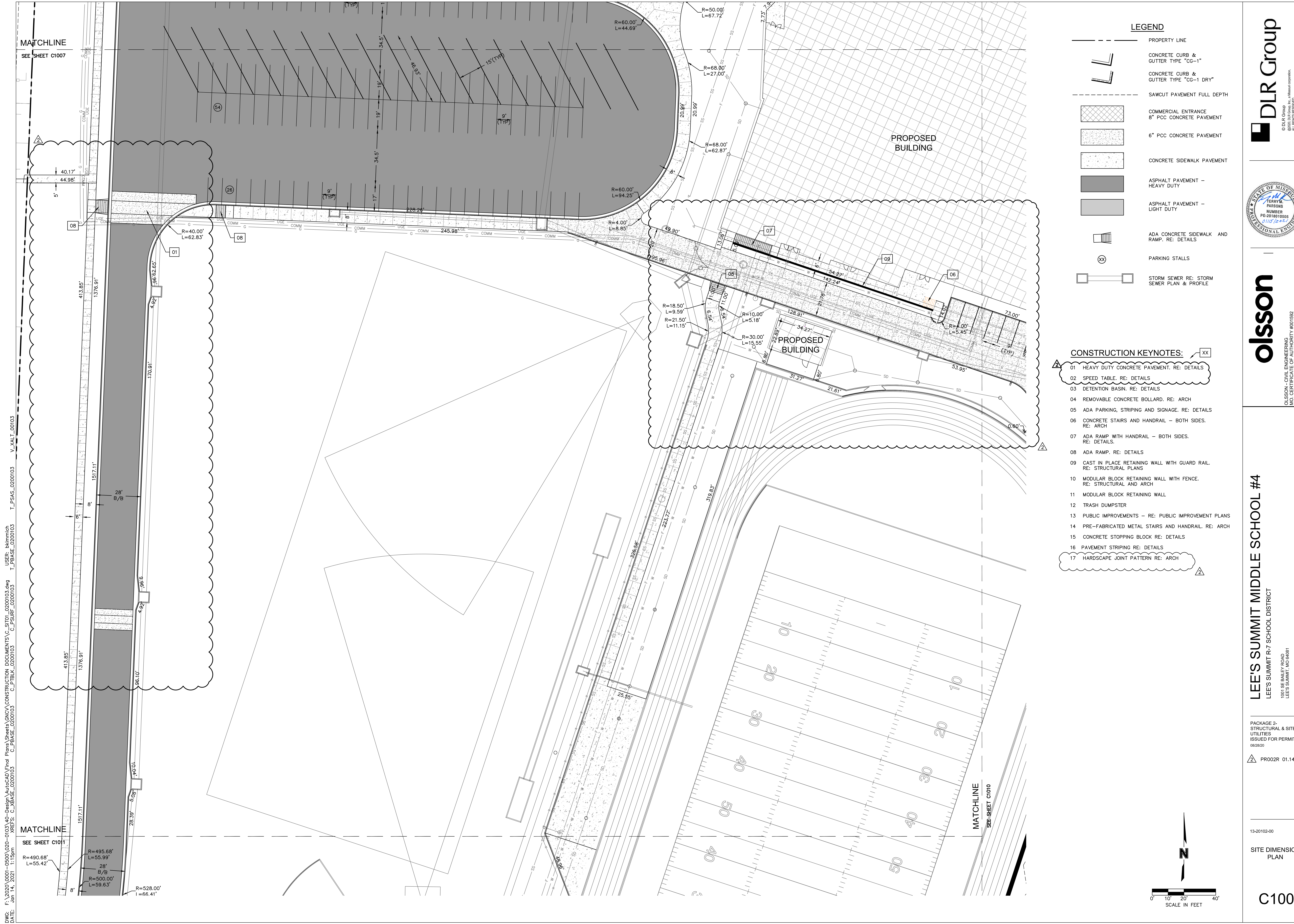
LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

PACKAGE 2-
 STRUCTURAL & SITE
 UTILITIES
 ISSUED FOR PERMIT
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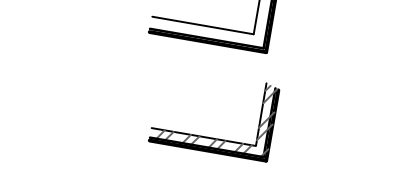
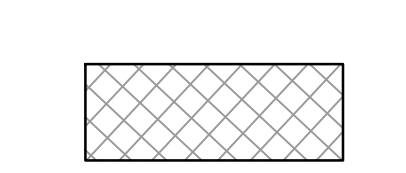

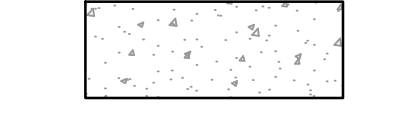
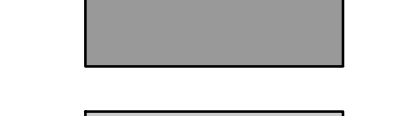


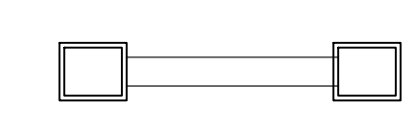



PRO02R 01.14.21

13-20102-00
 SITE DIMENSION
 PLAN

C1008



LEGEND

-  PROPERTY LINE
-  CONCRETE CURB & GUTTER TYPE "CG-1"
-  CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
-  SAWCUT PAVEMENT FULL DEPTH
-  COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
-  6" PCC CONCRETE PAVEMENT
-  CONCRETE SIDEWALK PAVEMENT
-  ASPHALT PAVEMENT - HEAVY DUTY
-  ASPHALT PAVEMENT - LIGHT DUTY
-  ADA CONCRETE SIDEWALK AND RAMP. RE: DETAILS
-  PARKING STALLS
-  STORM SEWER RE: STORM SEWER PLAN & PROFILE

CONSTRUCTION KEYNOTES:

- 01 HEAVY DUTY CONCRETE PAVEMENT. RE: DETAILS
- 02 SPEED TABLE. RE: DETAILS
- 03 DETENTION BASIN. RE: DETAILS
- 04 REMOVABLE CONCRETE BOLLARD. RE: ARCH
- 05 ADA PARKING, STRIPING AND SIGNAGE. RE: DETAILS
- 06 CONCRETE STAIRS AND HANDRAIL - BOTH SIDES. RE: ARCH
- 07 ADA RAMP WITH HANDRAIL - BOTH SIDES. RE: DETAILS
- 08 ADA RAMP. RE: DETAILS
- 09 CAST IN PLACE RETAINING WALL WITH GUARD RAIL. RE: STRUCTURAL PLANS
- 10 MODULAR BLOCK RETAINING WALL WITH FENCE. RE: STRUCTURAL AND ARCH
- 11 MODULAR BLOCK RETAINING WALL
- 12 TRASH DUMPSTER
- 13 PUBLIC IMPROVEMENTS - RE: PUBLIC IMPROVEMENT PLANS
- 14 PRE-FABRICATED METAL STAIRS AND HANDRAIL. RE: ARCH
- 15 CONCRETE STOPPING BLOCK. RE: DETAILS
- 16 PAVEMENT STRIPING. RE: DETAILS
- 17 HARDSCAPE JOINT PATTERN. RE: ARCH

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Professional Engineer

TERRY L. PARSONS
NUMBER
PE-291801886
0115 (2022)

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MO. CERTIFICATE OF AUTHORITY #001592
7301 West 133rd Street, Suite 200
Overland Park, KS 66213-7750
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LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64881

PACKAGE 2 -
STRUCTURAL & SITE
UTILITIES
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13-20102-00
SITE DIMENSION
PLAN

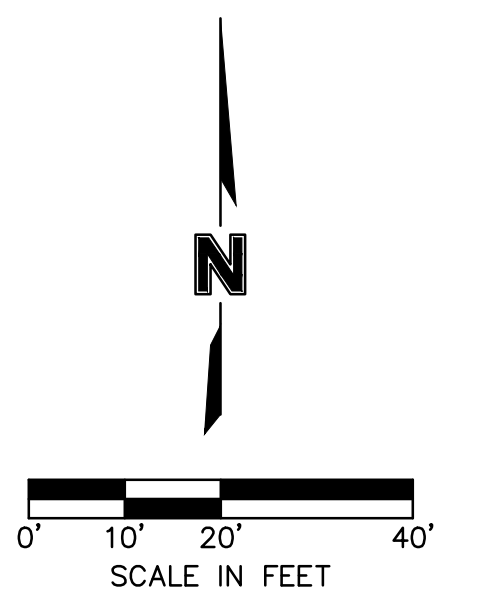
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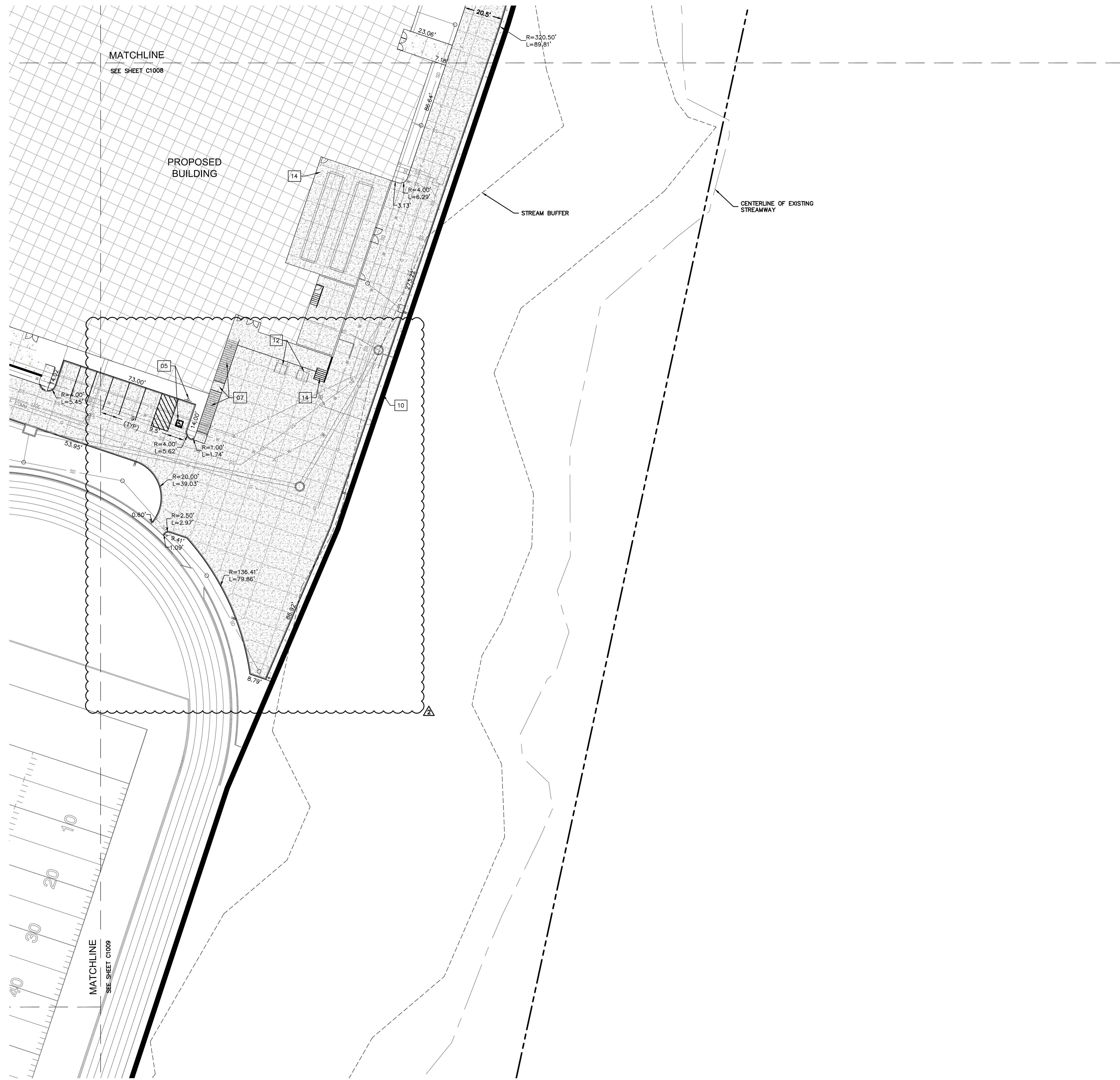
MATCHLINE
SEE SHEET C1011

MATCHLINE
SEE SHEET C1007

MATCHLINE
SEE SHEET C1010



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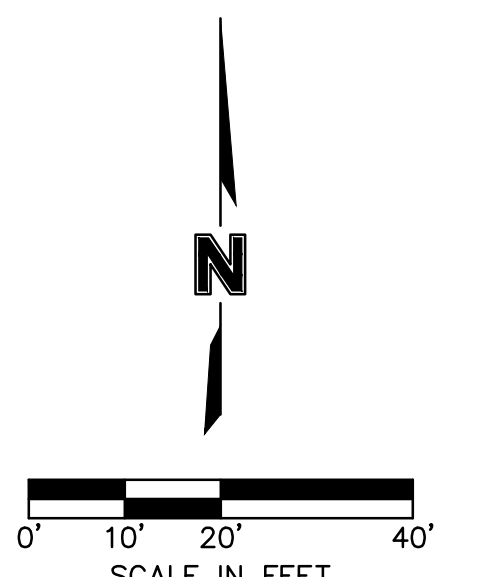


LEGEND

	PROPERTY LINE
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	SAWCUT PAVEMENT FULL DEPTH
	COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
	6" PCC CONCRETE PAVEMENT
	CONCRETE SIDEWALK PAVEMENT
	ASPHALT PAVEMENT - HEAVY DUTY
	ADA CONCRETE SIDEWALK AND RAMP. RE: SHEET XX AND XX
	PARKING STALLS
	STORM SEWER RE: SHEETS XX

CONSTRUCTION KEYNOTES:

	01 HEAVY DUTY CONCRETE PAVEMENT. RE: DETAILS
	02 SPEED TABLE. RE: DETAILS
	03 DETENTION BASIN. RE: DETAILS
	04 REMOVABLE CONCRETE BOLLARD. RE: ARCH
	05 ADA PARKING, STRIPING AND SIGNAGE. RE: DETAILS
	06 CONCRETE STAIRS AND HANDRAIL - BOTH SIDES. RE: ARCH
	07 ADA RAMP WITH HANDRAIL - BOTH SIDES. RE: DETAILS
	08 ADA RAMP. RE: DETAILS
	09 CAST IN PLACE RETAINING WALL WITH GUARD RAIL. RE: STRUCTURAL PLANS
	10 MODULAR BLOCK RETAINING WALL WITH FENCE. RE: STRUCTURAL AND ARCH
	11 MODULAR BLOCK RETAINING WALL
	12 TRASH DUMPSTER
	13 PUBLIC IMPROVEMENTS - RE: PUBLIC IMPROVEMENT PLANS
	14 PRE-FABRICATED METAL STAIRS AND HANDRAIL. RE: ARCH
	15 CONCRETE STOPPING BLOCK RE: DETAILS
	16 PAVEMENT STRIPING RE: DETAILS
	17 HARDSCAPE JOINT PATTERN RE: ARCH



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 PE-291801826
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 7301 West 133rd Street, Suite 200
 Overland Park, KS 66213-7750
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 www.olsson.com

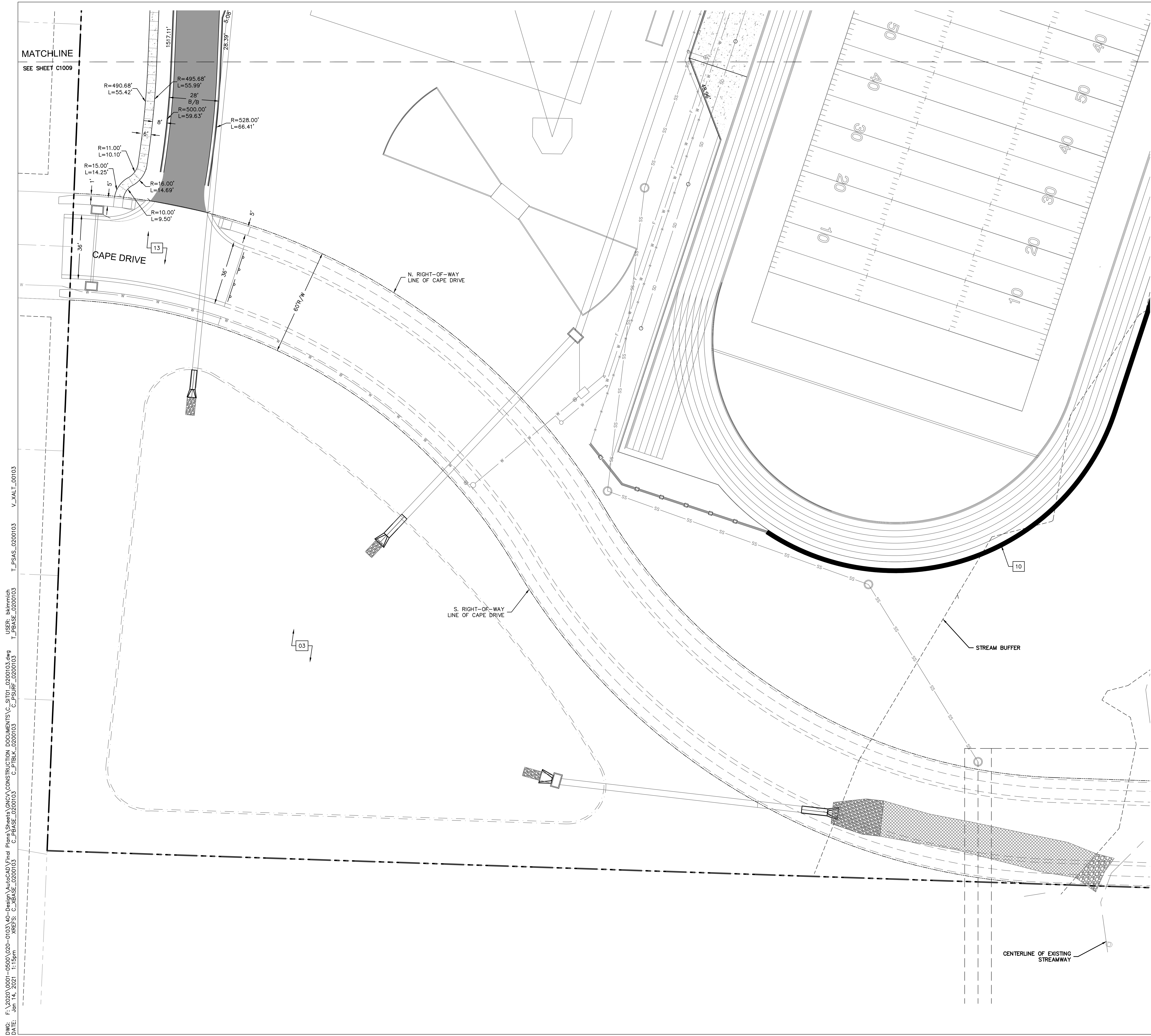
LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
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PACKAGE 2-
 STRUCTURAL & SITE
 UTILITIES
 ISSUED FOR PERMIT
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PRO02R 01.14.21

13-20102-00
 SITE DIMENSION
 PLAN

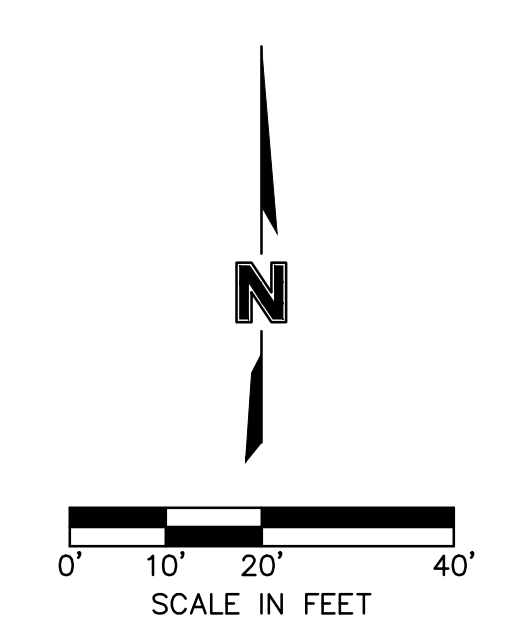
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LEGEND

	PROPERTY LINE
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	SAWCUT PAVEMENT FULL DEPTH
	COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
	6" PCC CONCRETE PAVEMENT
	CONCRETE SIDEWALK PAVEMENT
	ASPHALT PAVEMENT - HEAVY DUTY
	ASPHALT PAVEMENT - LIGHT DUTY
	ADA CONCRETE SIDEWALK AND RAMP. RE: DETAILS
	PARKING STALLS
	STORM SEWER RE: STORM SEWER PLAN & PROFILE

- CONSTRUCTION KEYNOTES:**
- 01 HEAVY DUTY CONCRETE PAVEMENT. RE: DETAILS
 - 02 SPEED TABLE. RE: DETAILS
 - 03 DETENTION BASIN. RE: DETAILS
 - 04 REMOVABLE CONCRETE BOLLARD. RE: ARCH
 - 05 ADA PARKING, STRIPING AND SIGNAGE. RE: DETAILS
RE: ARCH
 - 06 CONCRETE STAIRS AND HANDRAIL - BOTH SIDES.
RE: ARCH
 - 07 ADA RAMP WITH HANDRAIL - BOTH SIDES.
RE: DETAILS
 - 08 ADA RAMP. RE: DETAILS
 - 09 CAST IN PLACE RETAINING WALL WITH GUARD RAIL.
RE: STRUCTURAL PLANS
 - 10 MODULAR BLOCK RETAINING WALL WITH FENCE.
RE: STRUCTURAL AND ARCH
 - 11 MODULAR BLOCK RETAINING WALL
 - 12 TRASH DUMPSTER
 - 13 PUBLIC IMPROVEMENTS - RE: PUBLIC IMPROVEMENT PLANS
 - 14 PRE-FABRICATED METAL STAIRS AND HANDRAIL. RE: ARCH
 - 15 CONCRETE STOPPING BLOCK. RE: DETAILS
 - 16 PAVEMENT STRIPING. RE: DETAILS
 - 17 HARDSCAPE JOINT PATTERN. RE: ARCH



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 LEE'S SUMMIT, MO 64881

PACKAGE 2 -
 STRUCTURAL & SITE
 UTILITIES
 ISSUED FOR PERMIT
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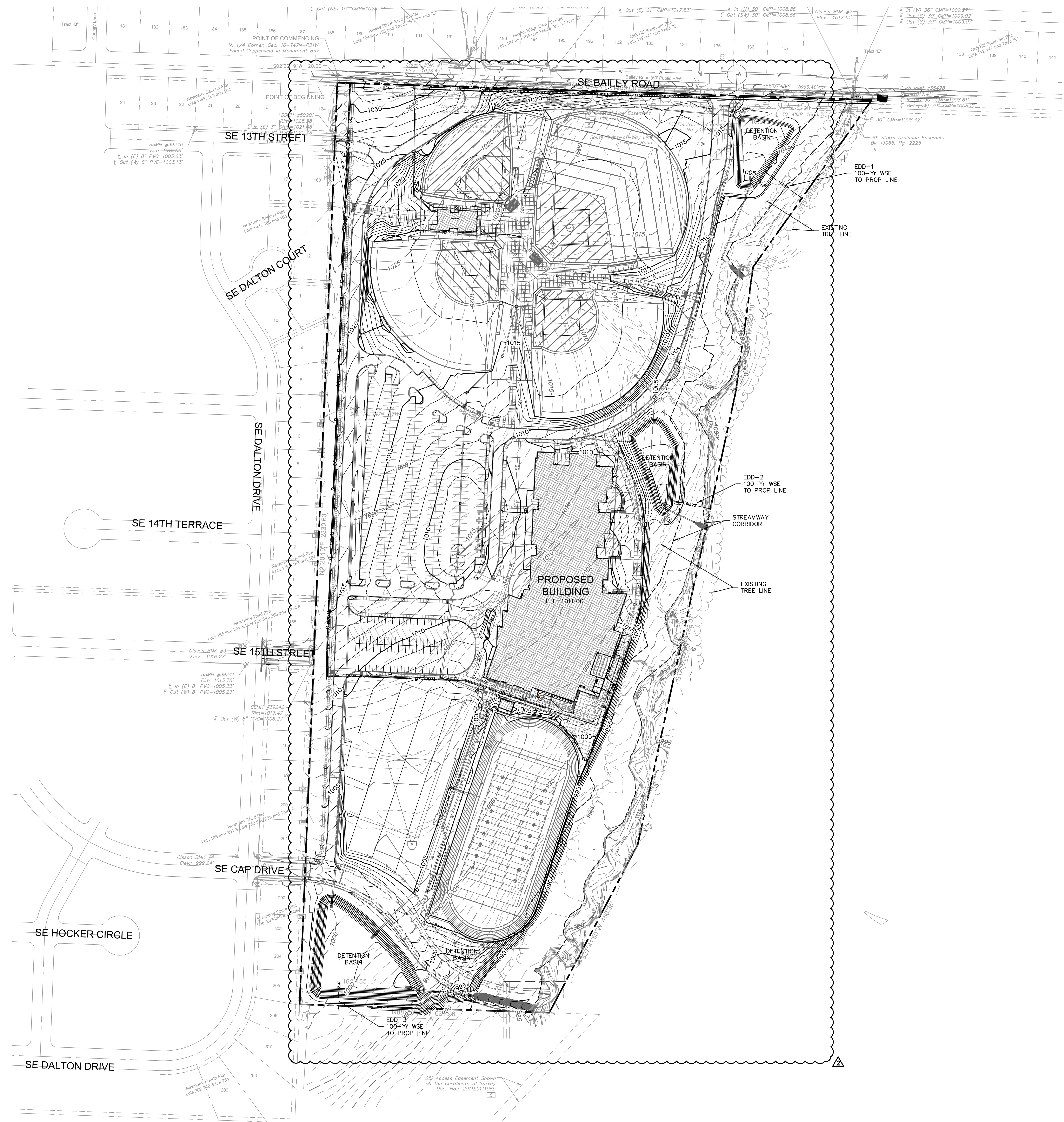
PR002R 01.14.21

13-20102-00

SITE DIMENSION
 PLAN

C1011

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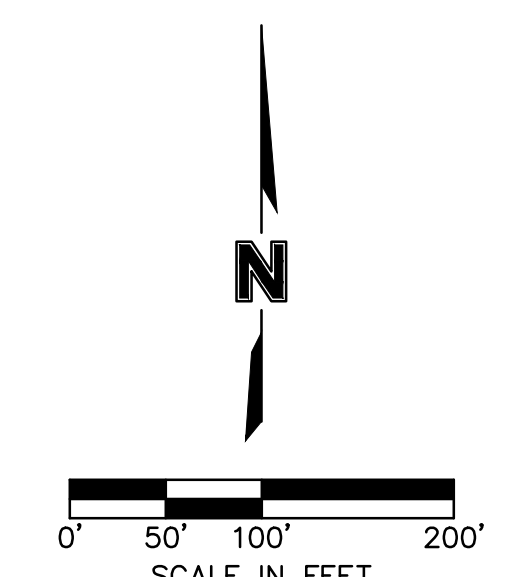
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---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
▨	RAMP
┌┐	CONCRETE CURB & GUTTER TYPE "CG-1"
┌┐	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
┌┐	CONCRETE CURB TYPE "C-1" MODIFIED

- NOTES:**
- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
 - ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
 - ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC=	TOP OF CURB
FG=	FINISHED GRADE WITHIN GREENSPACE
TS=	TOP OF STRUCTURE
TP=TC=	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP=	HIGH POINT
LP=	LOW POINT
MATCH EX.=	MATCH EXISTING
FFE=	FINISH FLOOR ELEVATION AT TOP OF SLAB



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 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

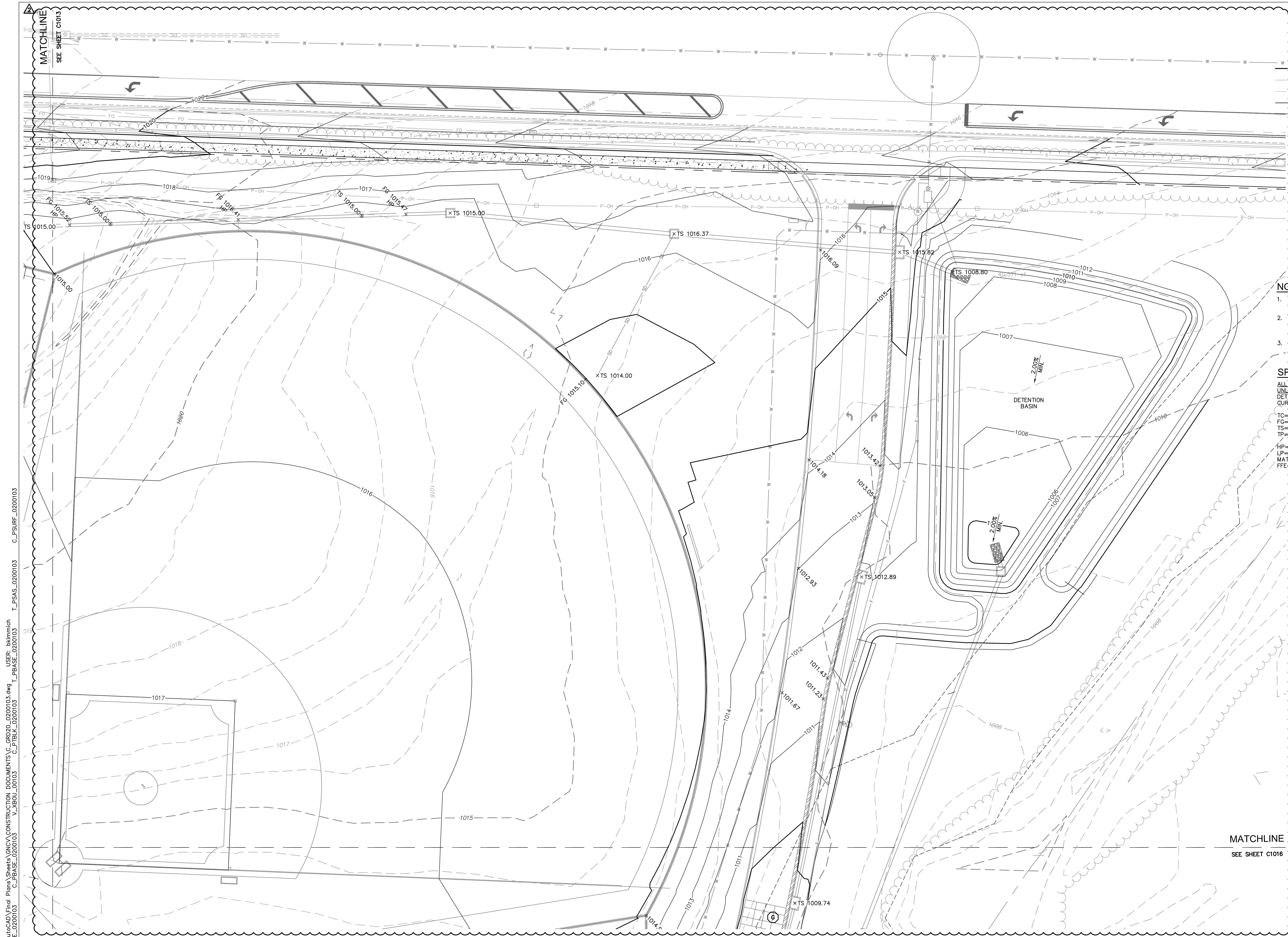
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PR002R 01.14.21

13-20102-00

GRADING PLAN

C1012



LEGEND

- PROPERTY LINE
- - - - - EXISTING MAJOR CONTOUR
- - - - - EXISTING MINOR CONTOUR
- - - - - PROPOSED MAJOR CONTOUR
- - - - - PROPOSED MINOR CONTOUR
- ▨ RAMP
- ┌┐ CONCRETE CURB & GUTTER TYPE "CG-1"
- ┌┐ CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
- ┌┐ CONCRETE CURB TYPE "C-1" MODIFIED
- (X) GRADING DETAIL DESIGNATION RE: SHEET C5.1 THRU C5.5

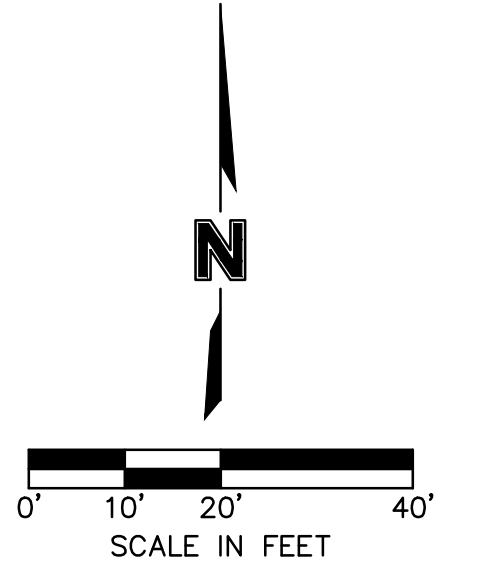
NOTES:

1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.

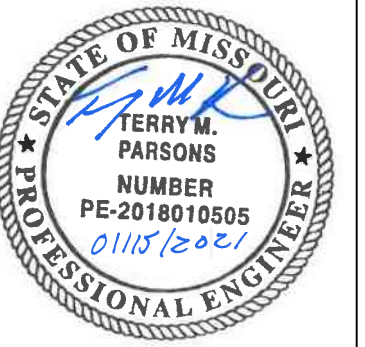
SPOT ELEVATION LEGEND

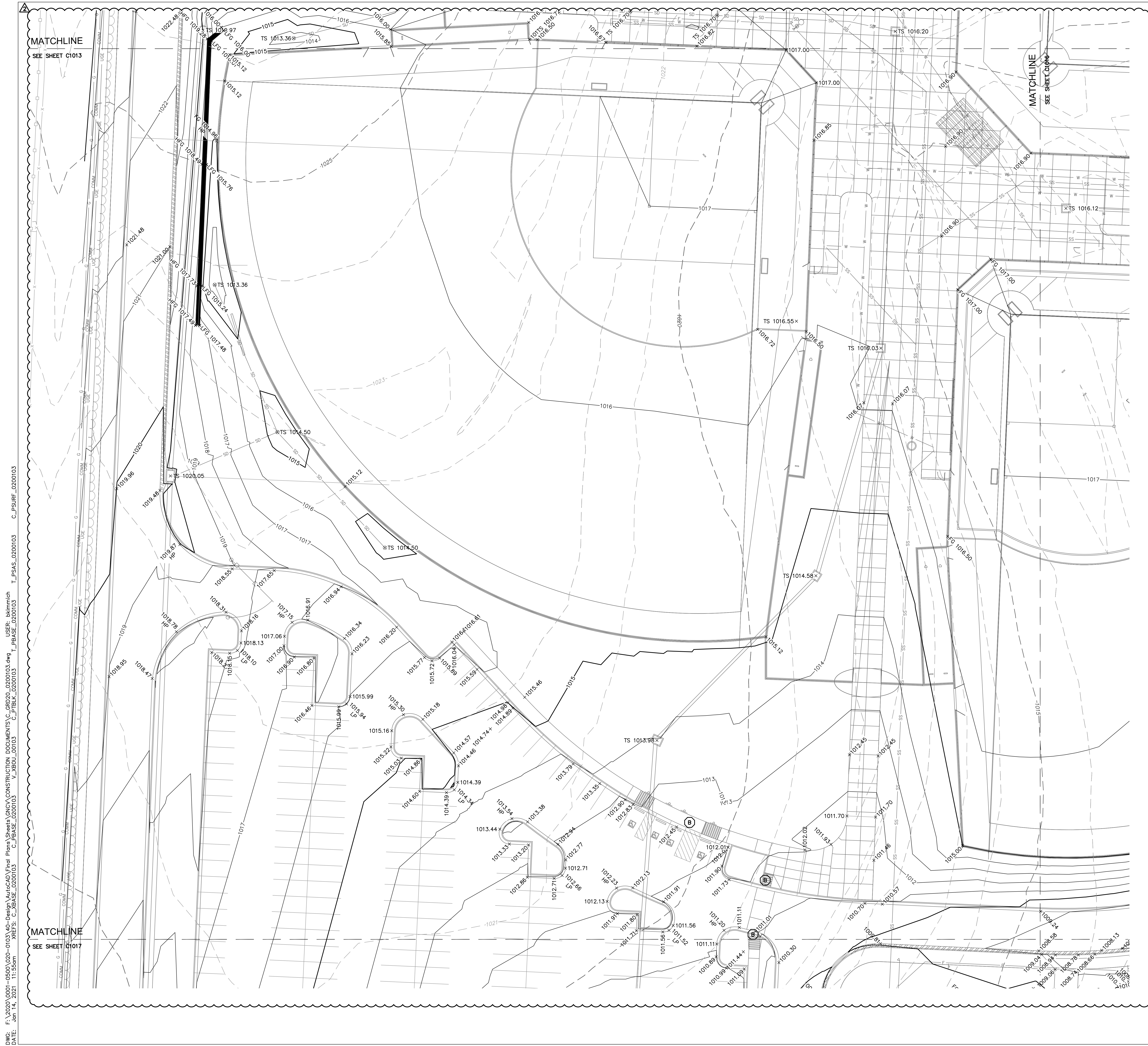
- ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.
- TC= TOP OF CURB
 - FG= FINISHED GRADE WITHIN GREENSPACE
 - TS= TOP OF STRUCTURE
 - TP=C= CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
 - HP= HIGH POINT
 - LP= LOW POINT
 - MATCH EX.= MATCH EXISTING
 - FFE= FINISH FLOOR ELEVATION AT TOP OF SLAB

MATCHLINE
SEE SHEET C1016



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LEGEND

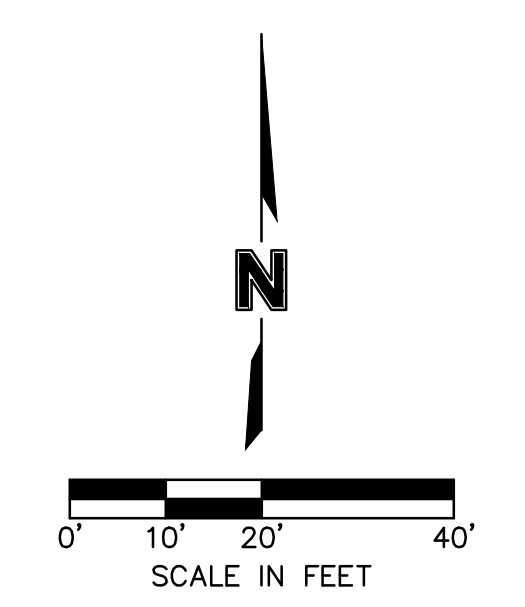
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	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	RAMP
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	CONCRETE CURB TYPE "C-1" MODIFIED
	GRADING DETAIL DESIGNATION RE: SHEET C5.1 THRU C5.5

- NOTES:**
- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
 - ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
 - ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC=	TOP OF CURB
FG=	FINISHED GRADE WITHIN GREENSPACE
TS=	TOP OF STRUCTURE
TP=TC=	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP=	HIGH POINT
LP=	LOW POINT
MATCH EX=	MATCH EXISTING
FFE=	FINISH FLOOR ELEVATION AT TOP OF SLAB



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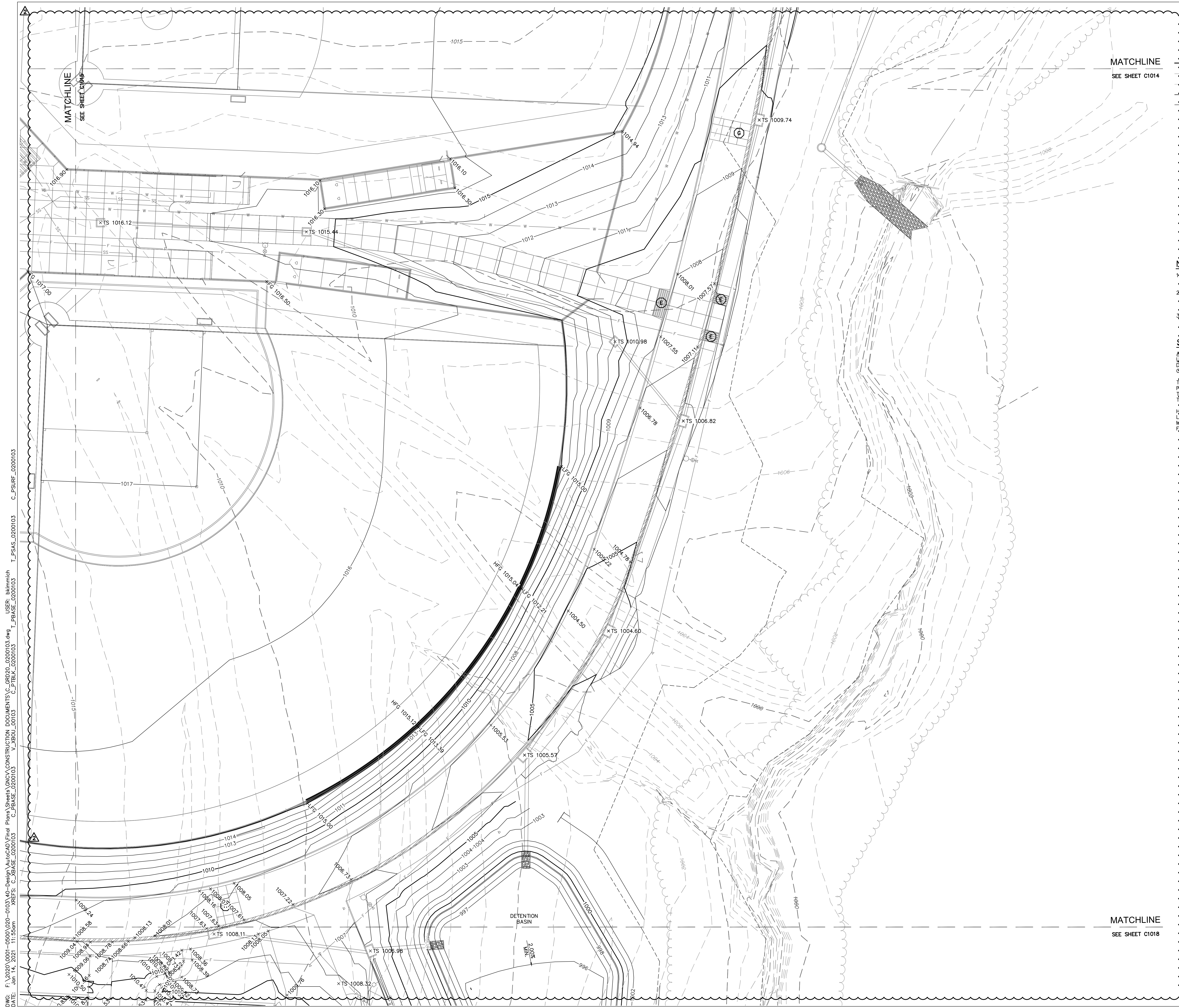
PROFESSIONAL ENGINEER
 TERRY M. PARSONS
 NUMBER
 PE-291801885
 01/15/2022

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 UTILITIES
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13-20102-00
 GRADING DETAILS

C1015



LEGEND

- 995 — EXISTING MAJOR CONTOUR
- 995 — EXISTING MINOR CONTOUR
- 998 — PROPOSED MAJOR CONTOUR
- 998 — PROPOSED MINOR CONTOUR
- RAMP
- CONCRETE CURB & GUTTER TYPE "CG-1"
- CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
- CONCRETE CURB TYPE "C-1" MODIFIED
- GRADING DETAIL DESIGNATION RE: SHEET C5.1 THRU C5.5

NOTES:

- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
- ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
- ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.

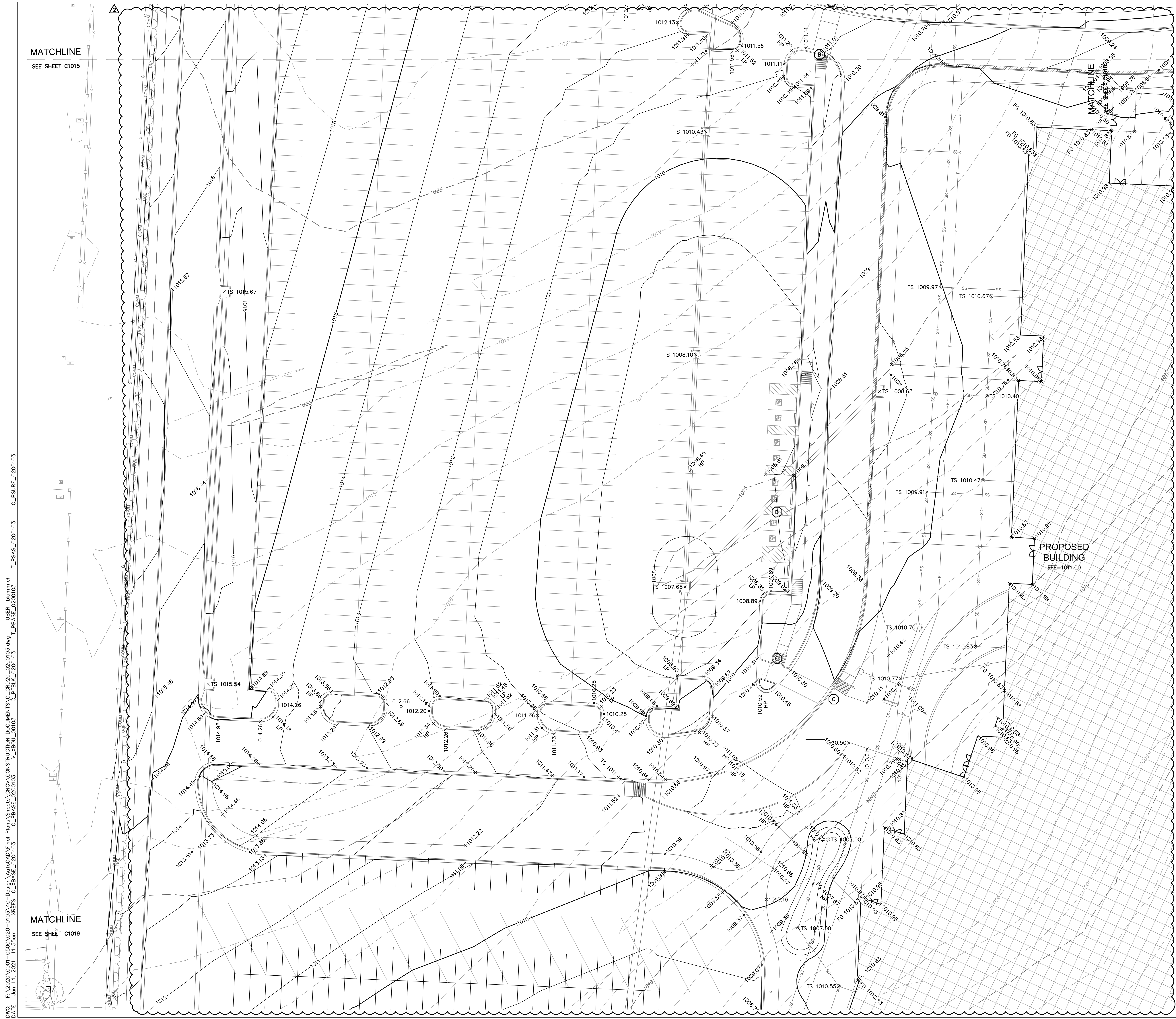
SPOT ELEVATION LEGEND

- TS= SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.
- TC= TOP OF CURB
- FG= FINISHED GRADE WITHIN GREENSPACE
- TS= TOP OF STRUCTURE
- TC= CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
- HP= HIGH POINT
- LP= LOW POINT
- EX= MATCH EXISTING
- FE= FINISH FLOOR ELEVATION AT TOP OF SLAB

MATCHLINE
SEE SHEET C1014

MATCHLINE
SEE SHEET C1018

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MATCHLINE
SEE SHEET C1015

MATCHLINE
SEE SHEET C1019

LEGEND

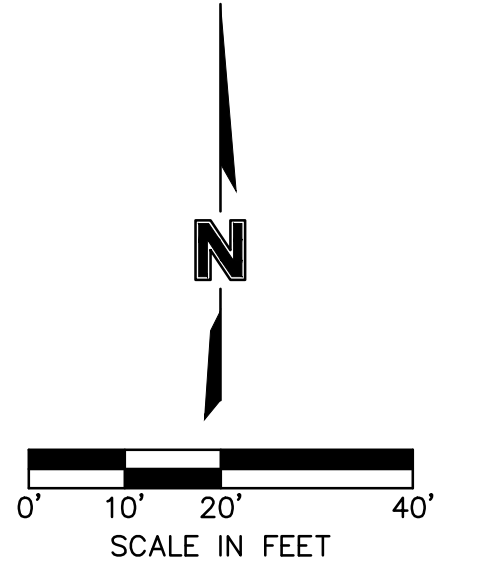
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	RAMP
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	CONCRETE CURB TYPE "C-1" MODIFIED
	GRADING DETAIL DESIGNATION RE: SHEET C5.1 THRU C5.5

- NOTES:**
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SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC=	TOP OF CURB
FG=	FINISHED GRADE WITHIN GREENSPACE
TS=	TOP OF STRUCTURE
TP=TC=	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP=	HIGH POINT
LP=	LOW POINT
MATCH EX=	MATCH EXISTING
FFE=	FINISH FLOOR ELEVATION AT TOP OF SLAB



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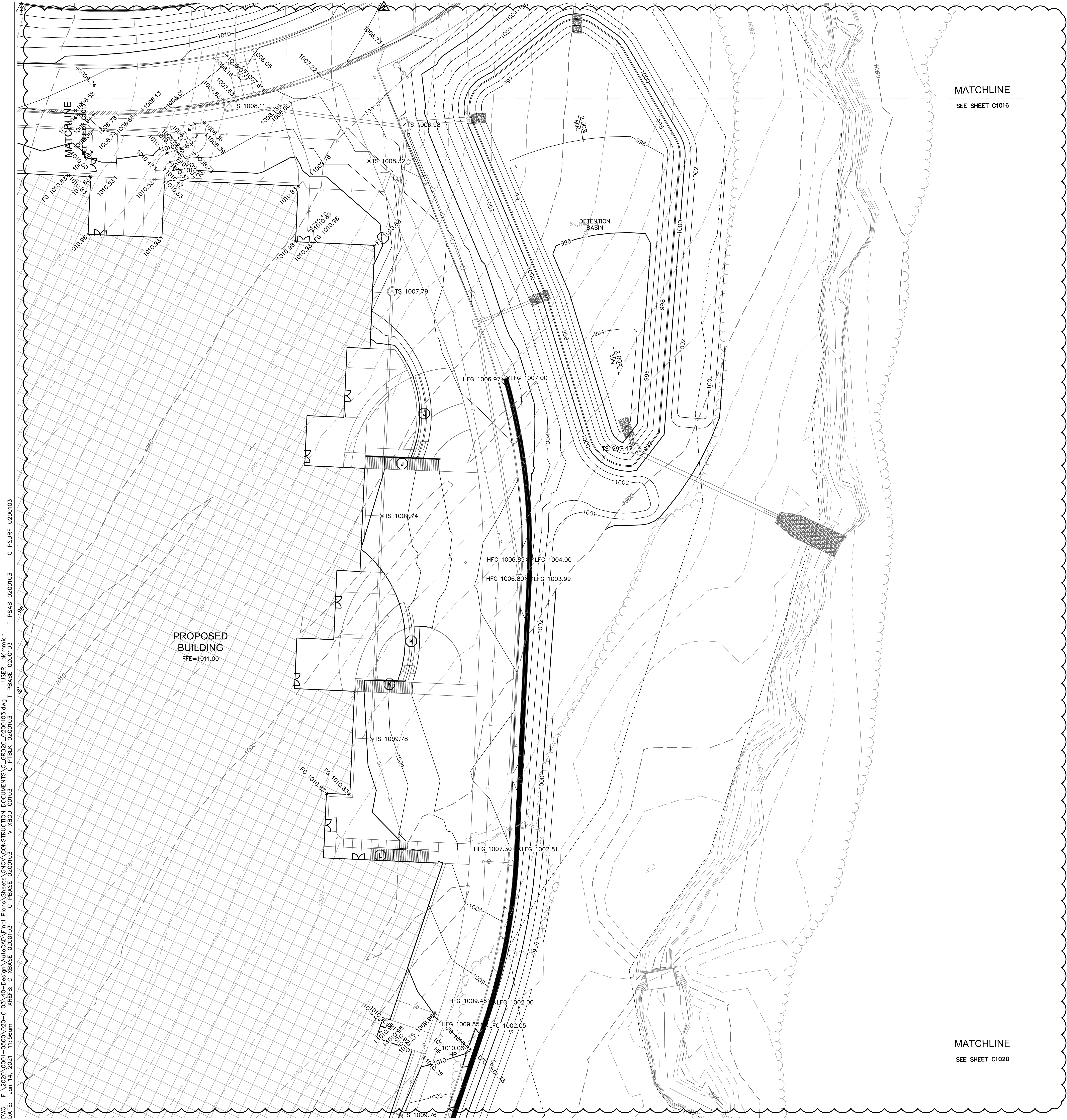
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C1017



LEGEND

	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	RAMP
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	CONCRETE CURB TYPE "C-1" MODIFIED
	GRADING DETAIL DESIGNATION RE: SHEET C5.1 THRU C5.5

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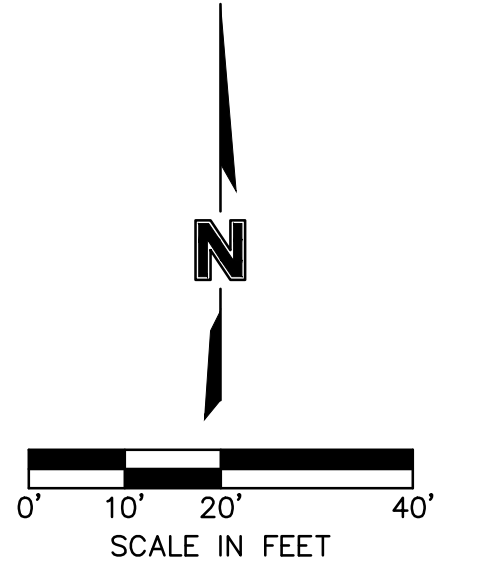
SPOT ELEVATION LEGEND

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HP=	HIGH POINT
LP=	LOW POINT
MATCH EX=	MATCH EXISTING
FFE=	FINISH FLOOR ELEVATION AT TOP OF SLAB

MATCHLINE
SEE SHEET C1016

MATCHLINE
SEE SHEET C1020



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LEE'S SUMMIT R-7 SCHOOL DISTRICT

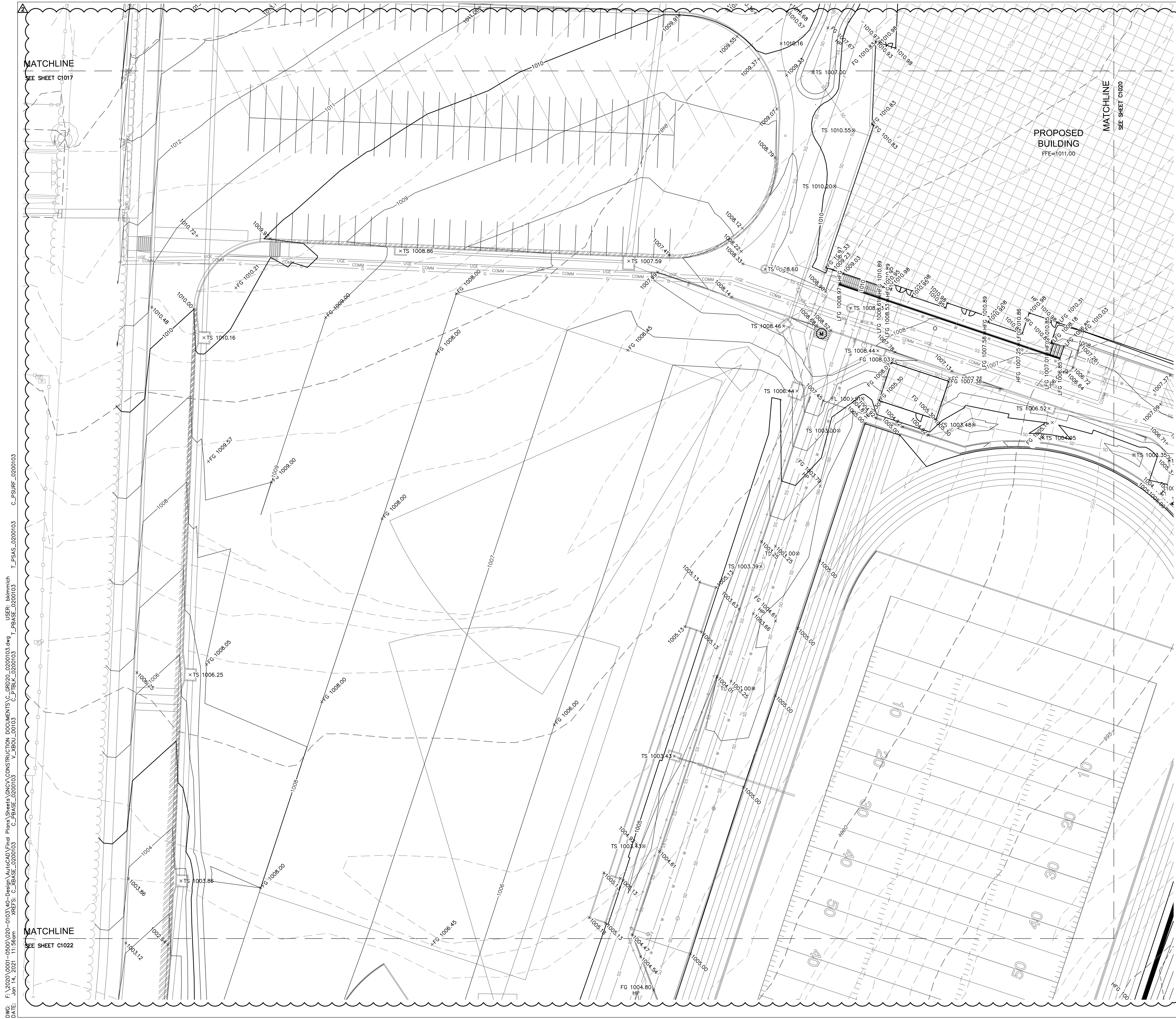
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LEGEND

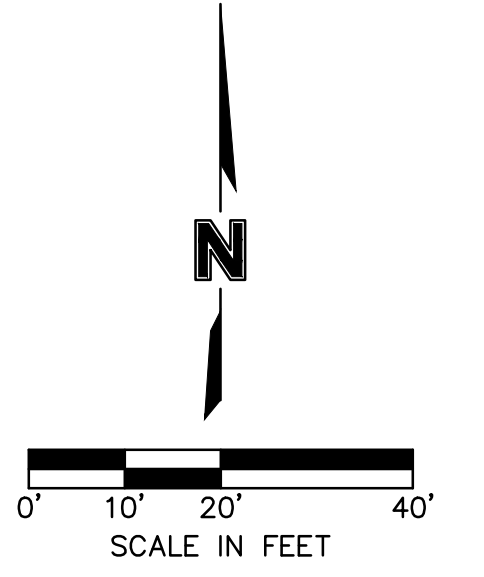
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	RAMP
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	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	CONCRETE CURB TYPE "C-1" MODIFIED
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GRADING DETAILS
C1019



MATCHLINE
SEE SHEET C1018

LEGEND

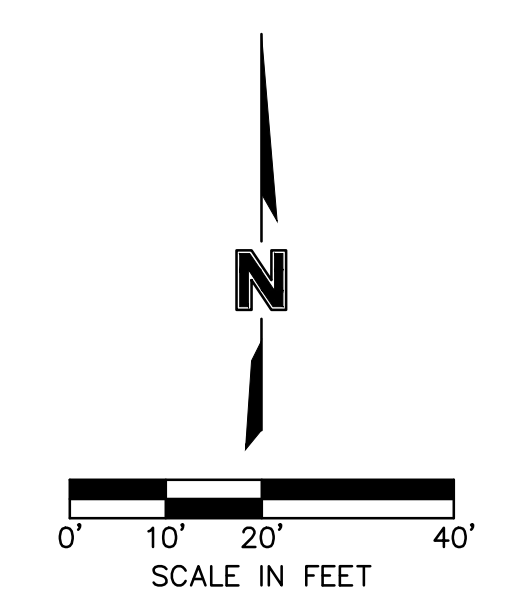
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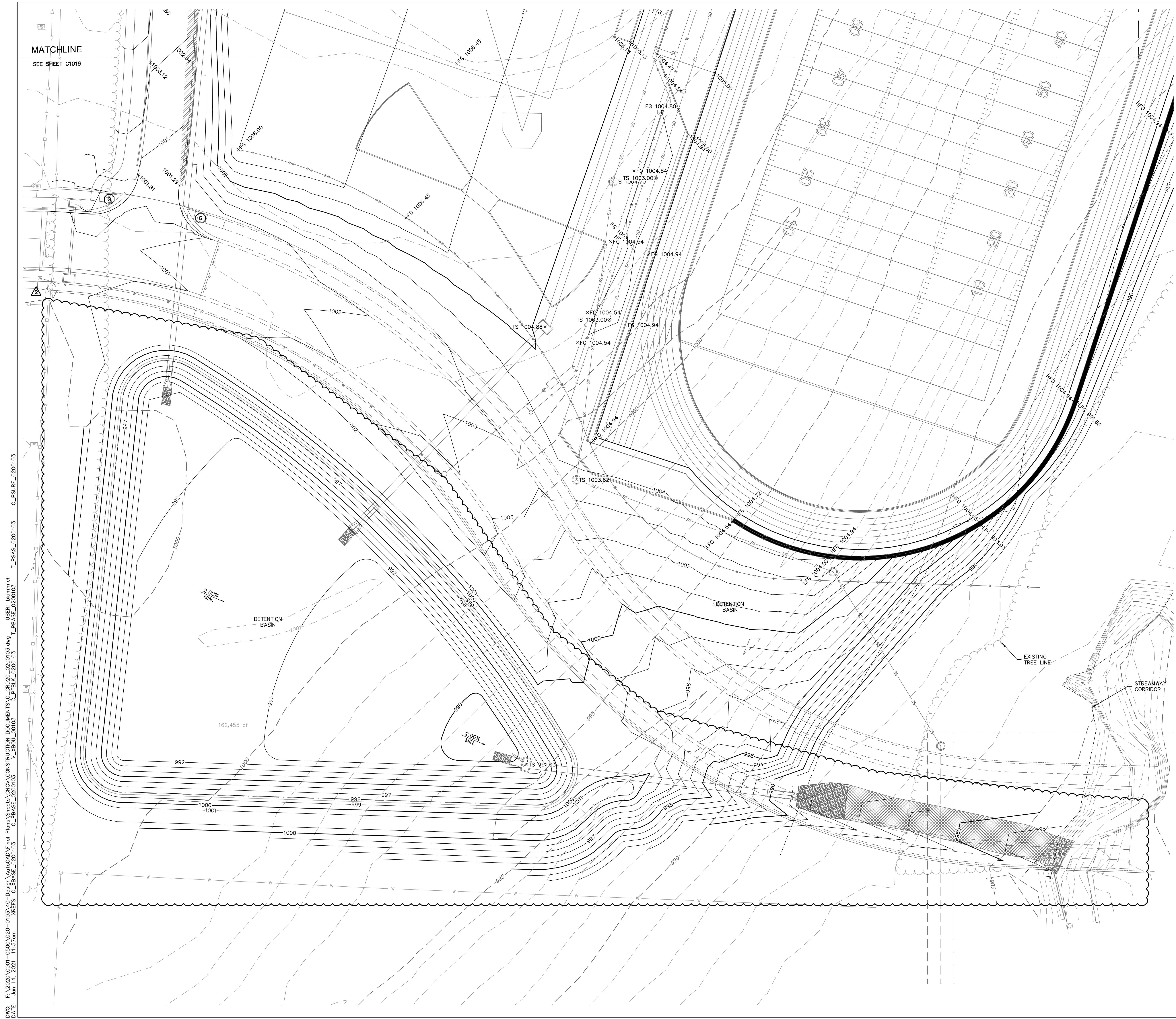
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13-20102-00

GRADING DETAILS

C1020



LEGEND

	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	RAMP
	CONCRETE CURB & GUTTER TYPE "CG-1"
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	GRADING DETAIL DESIGNATION RE: SHEET C1022 THRU C1023

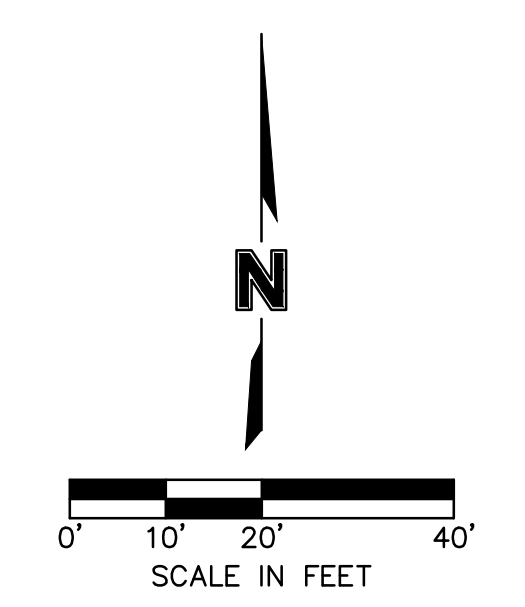
- NOTES:**
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MATCH EX=	MATCH EXISTING
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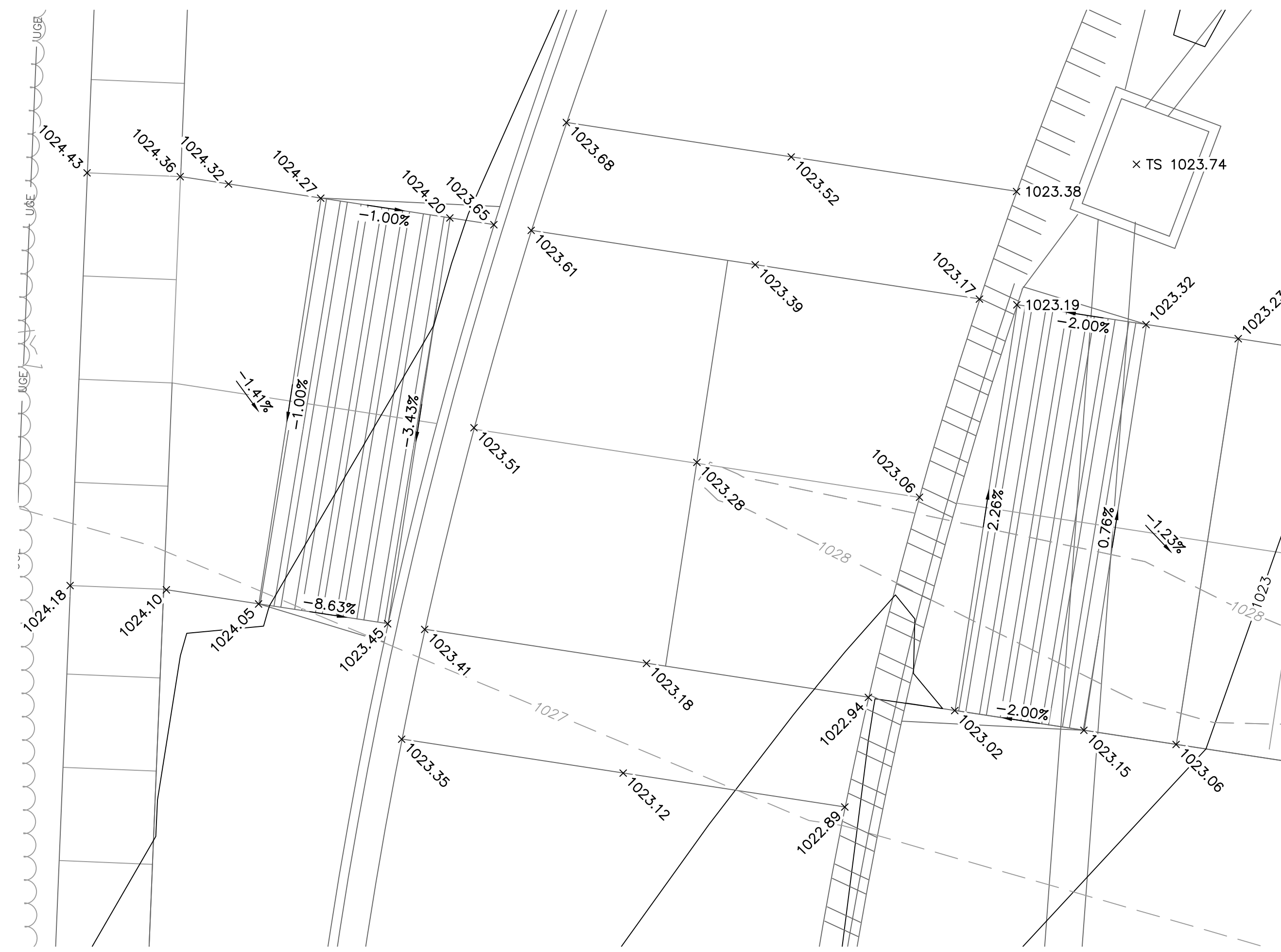
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LEE'S SUMMIT R-7 SCHOOL DISTRICT

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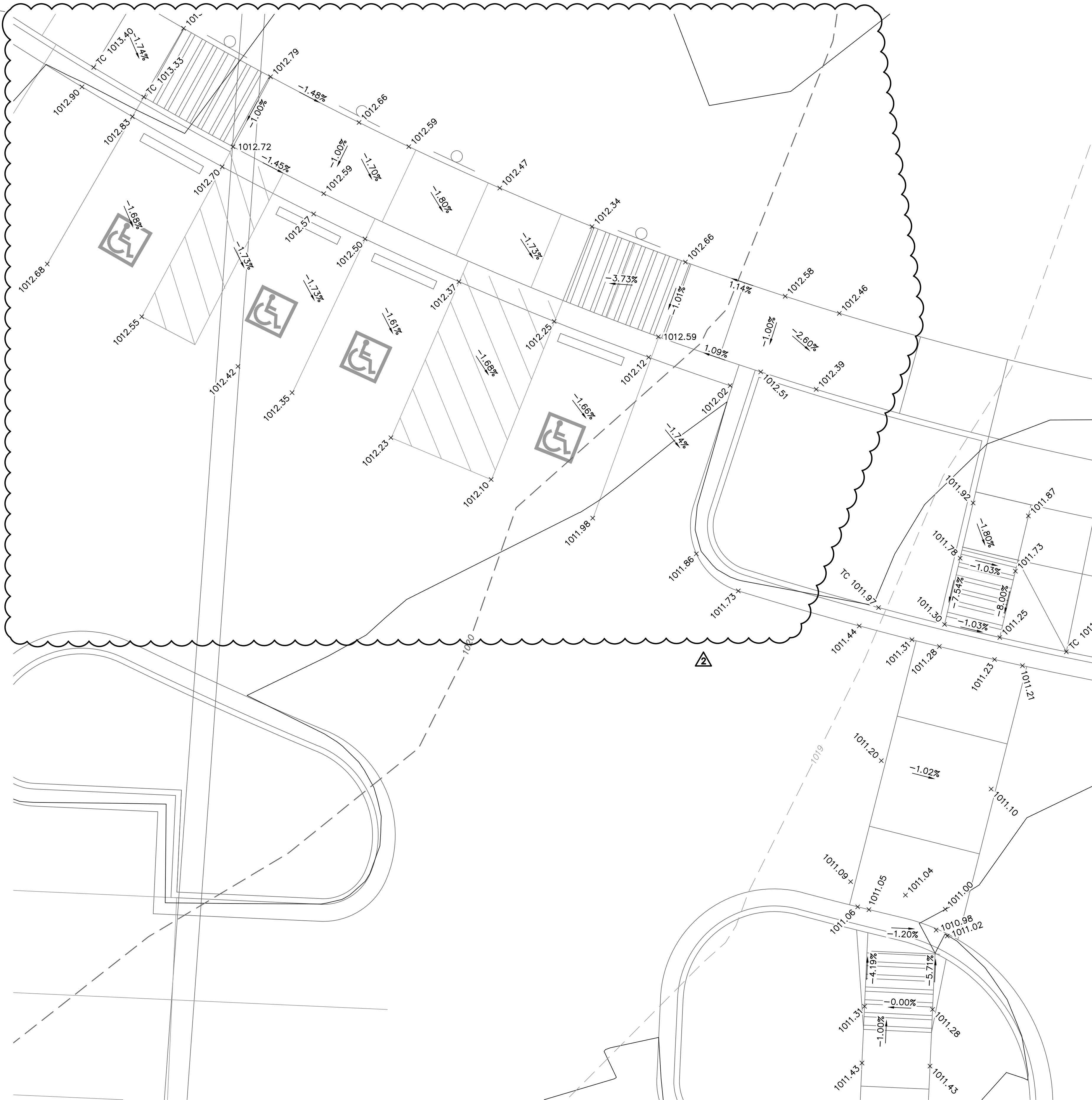
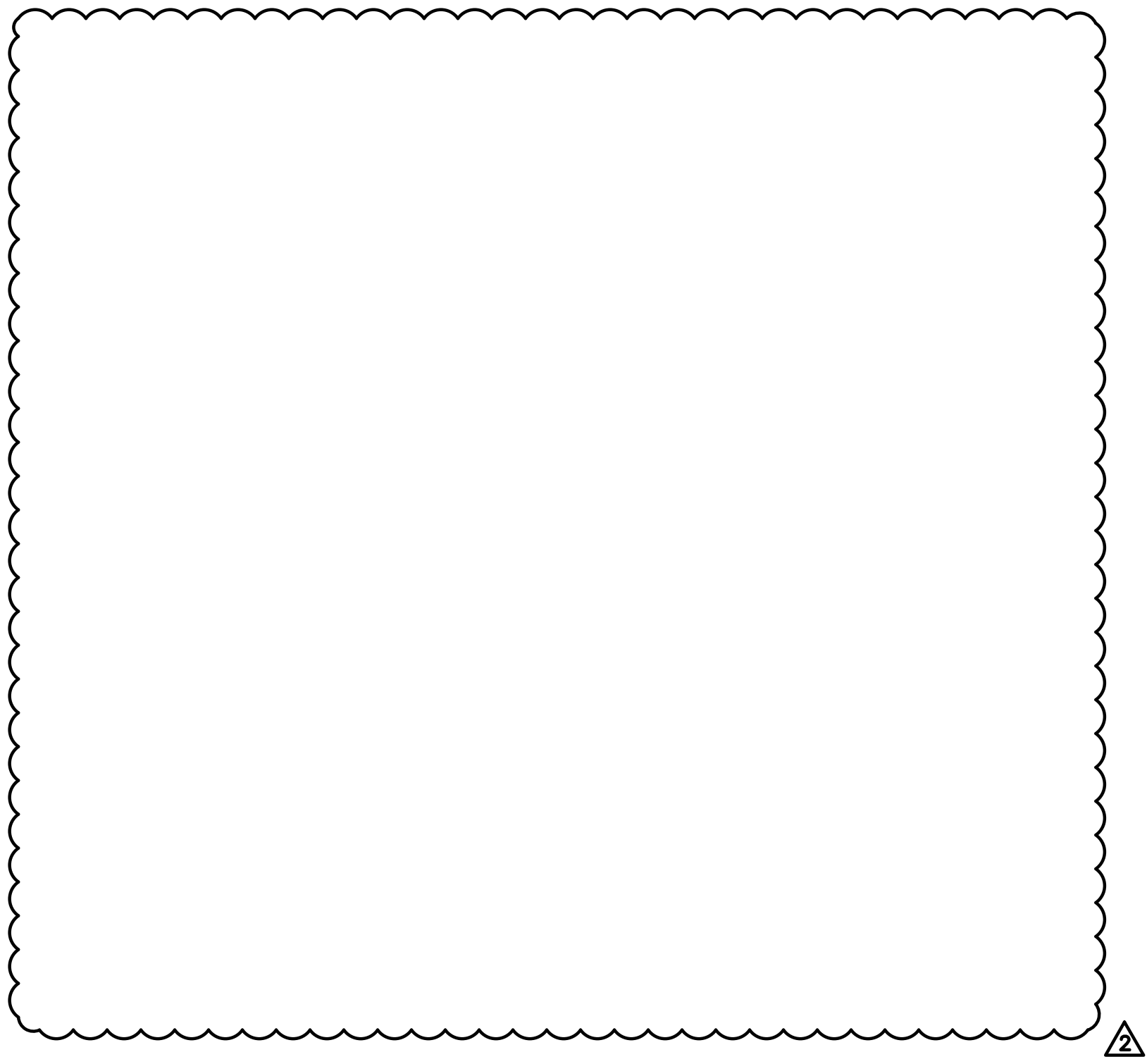
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C1021

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GRADING DETAIL A
SCALE: 1"=5'



GRADING DETAIL B
SCALE: 1"=5'

LEGEND

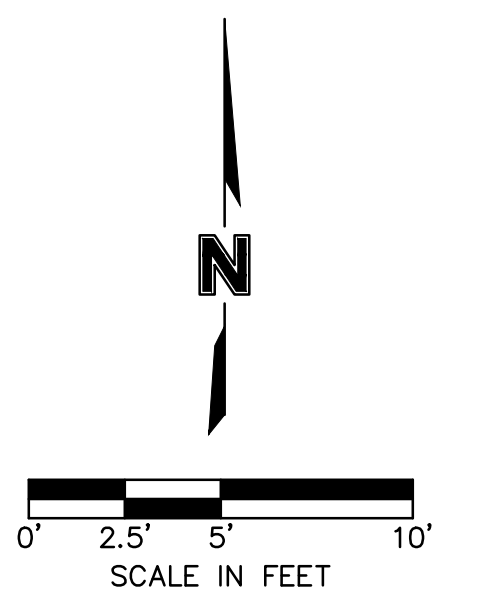
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▨	RAMP
┌─┐	CONCRETE CURB & GUTTER TYPE "CG-1"
┌─┐	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
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FEE=	FINISH FLOOR ELEVATION AT TOP OF SLAB



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PROFESSIONAL ENGINEER
TERRY M. PARSONS
NUMBER
PE-291801806
0115/2002

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LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64881

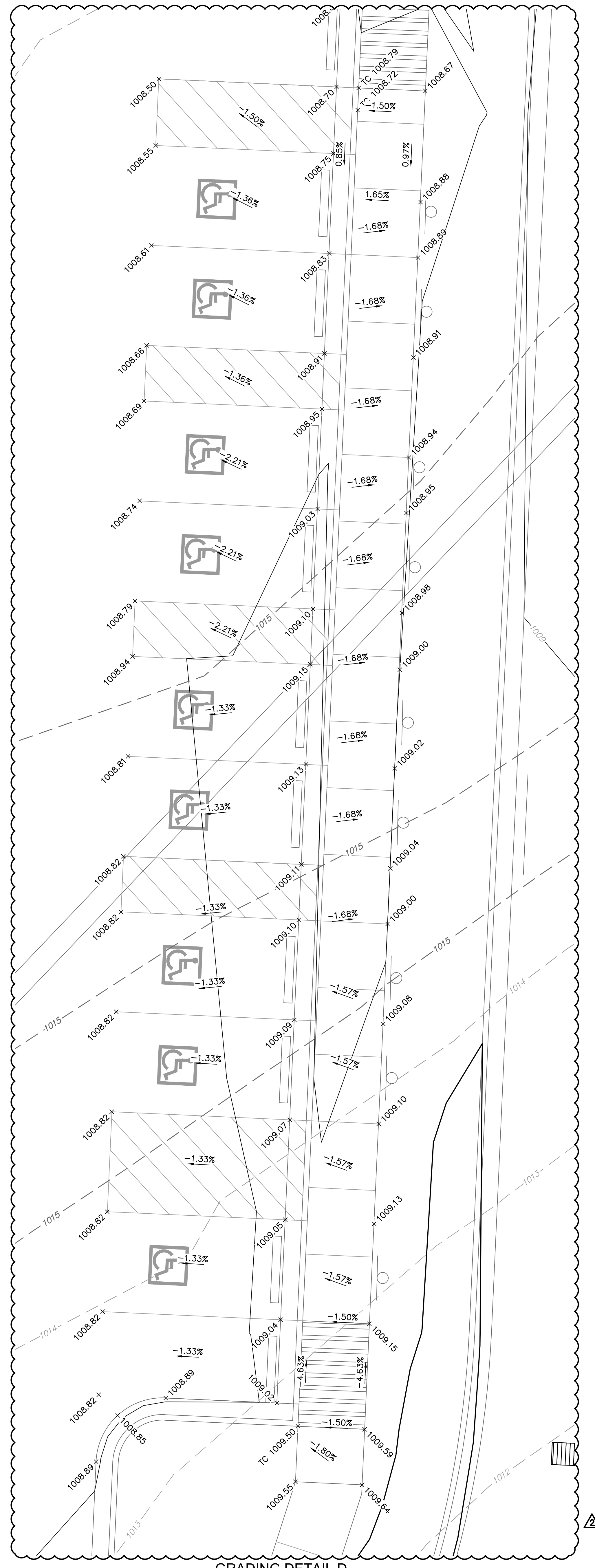
PACKAGE 2-
STRUCTURAL & SITE
UTILITIES
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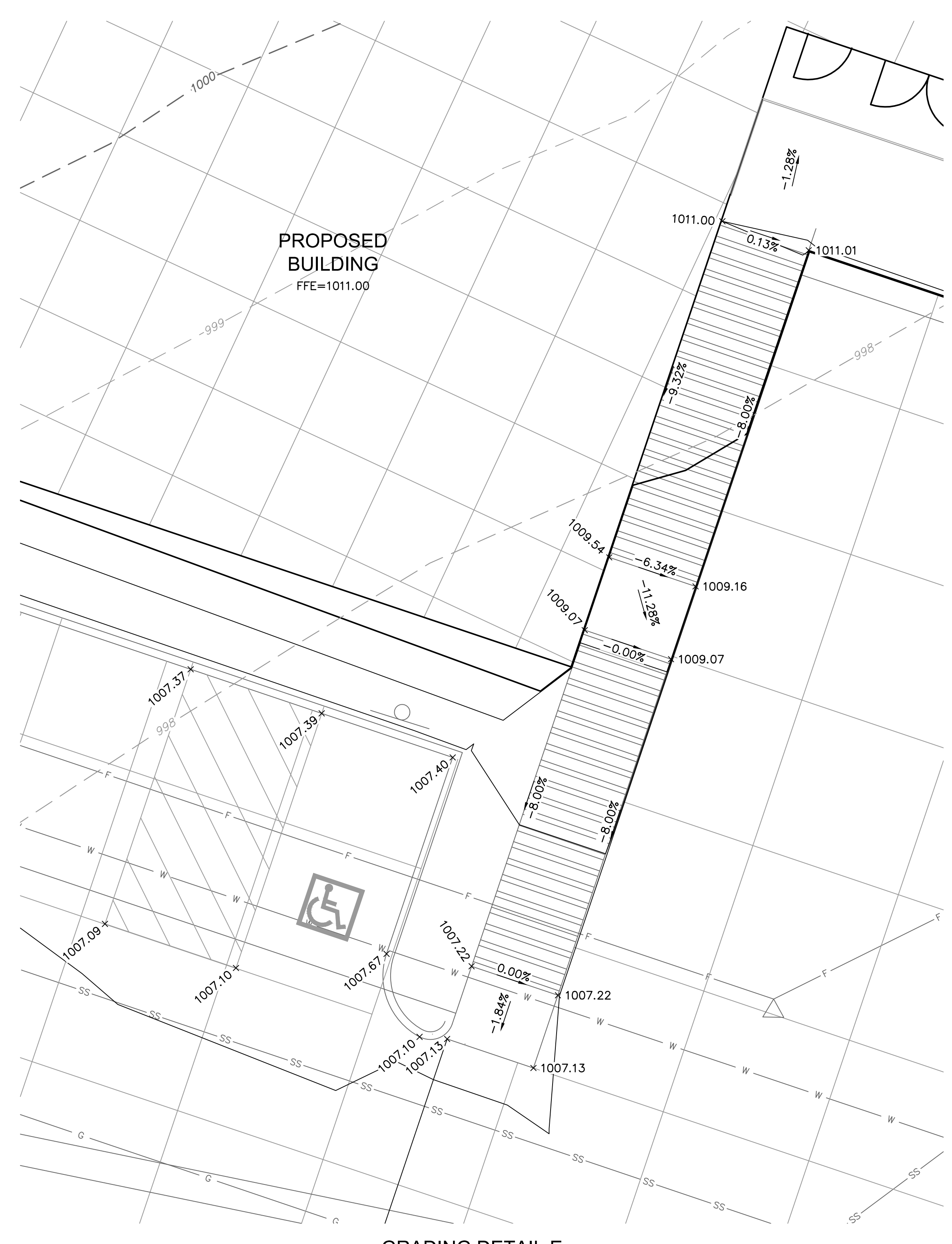
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GRADING DETAILS

C1022

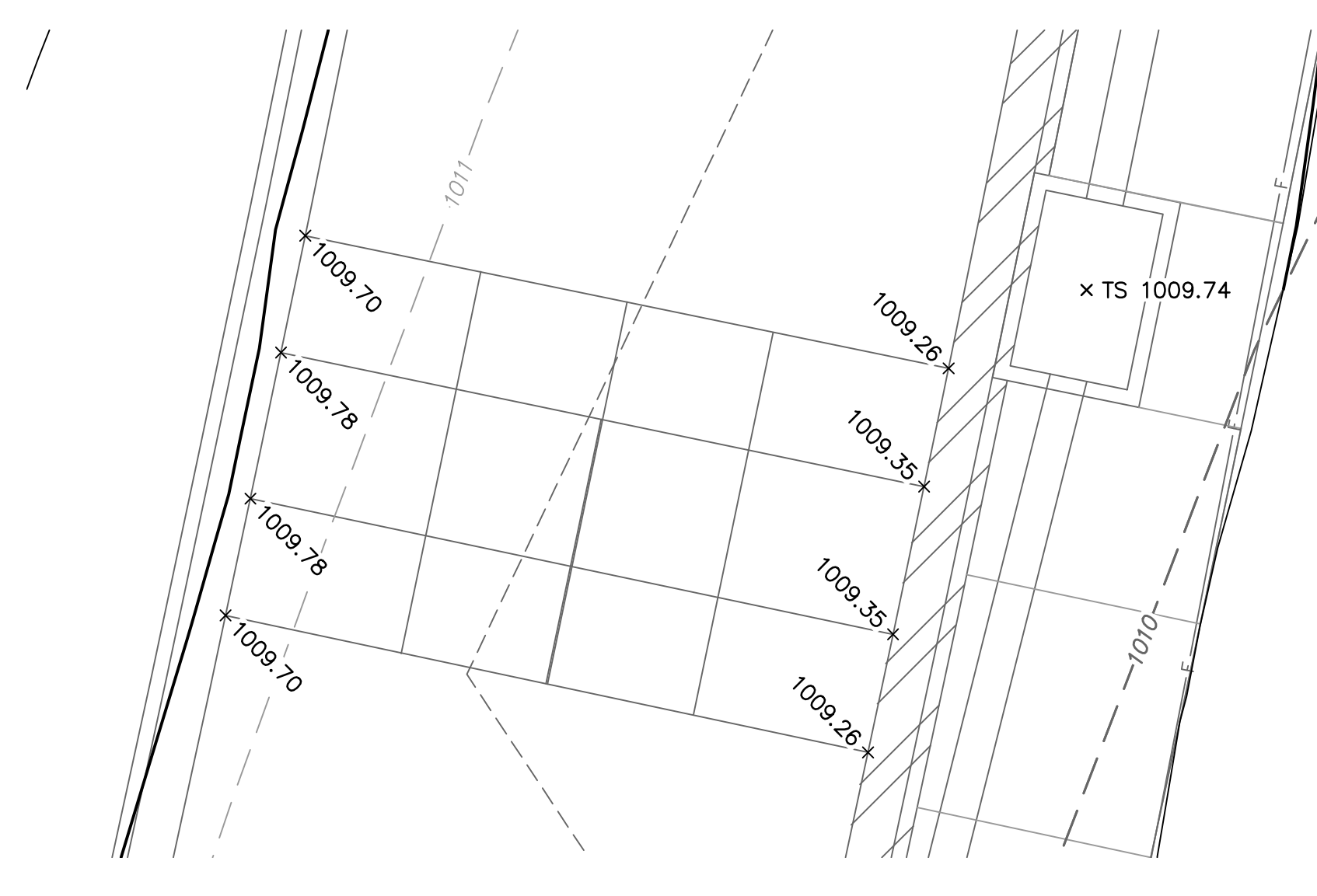
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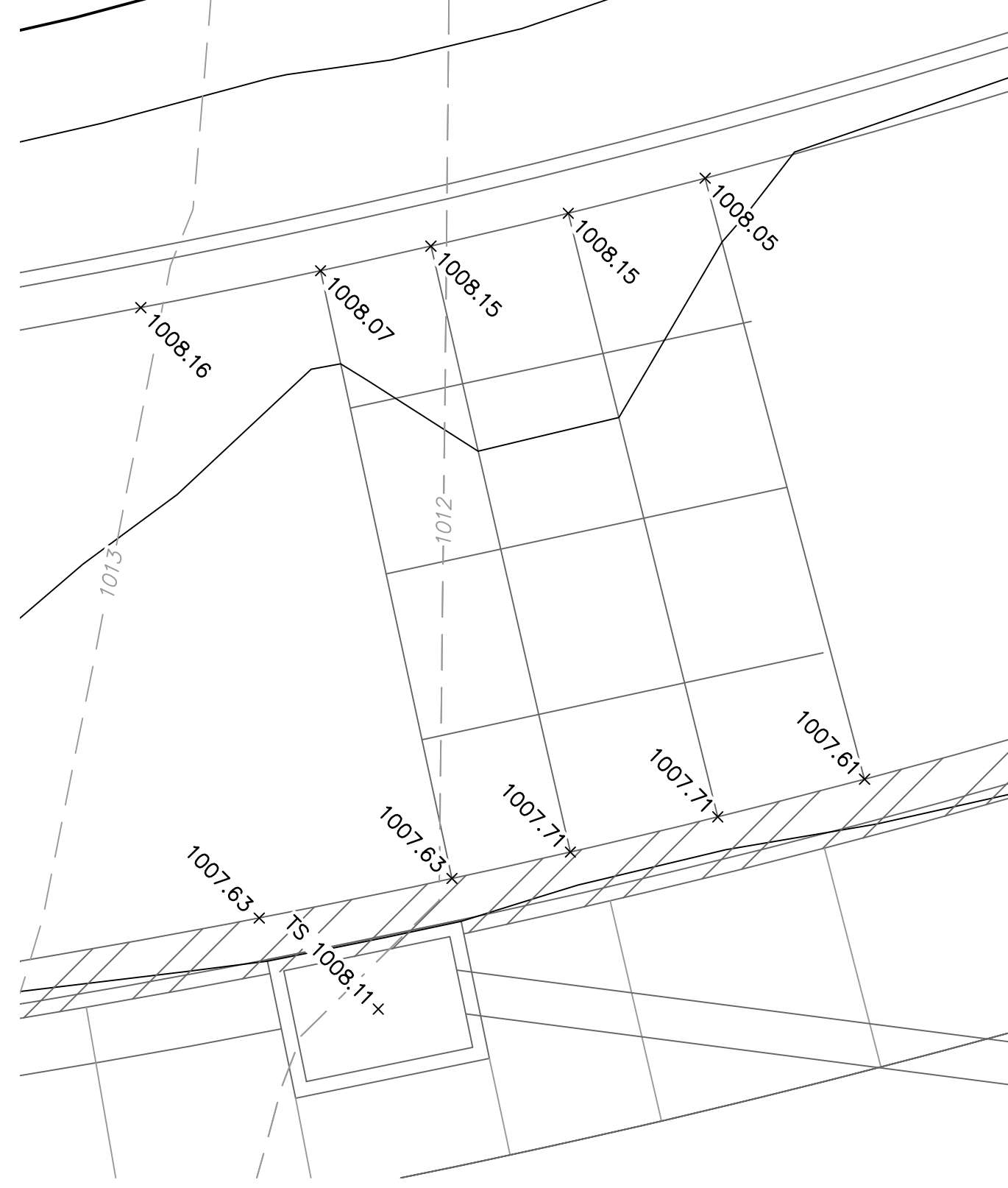
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SCALE: 1"=5'



GRADING DETAIL E
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GRADING DETAIL G
SCALE: 1"=5'



GRADING DETAIL H
SCALE: 1"=5'

LEGEND

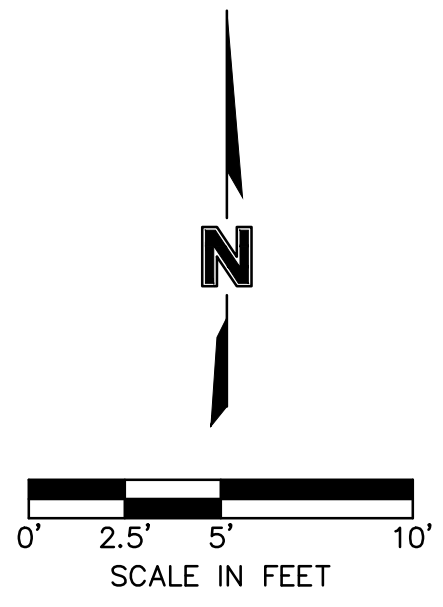
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---	PROPOSED MINOR CONTOUR
	RAMP
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TERRY M. PARSONS
NUMBER
PE-291801888
0118 (202)

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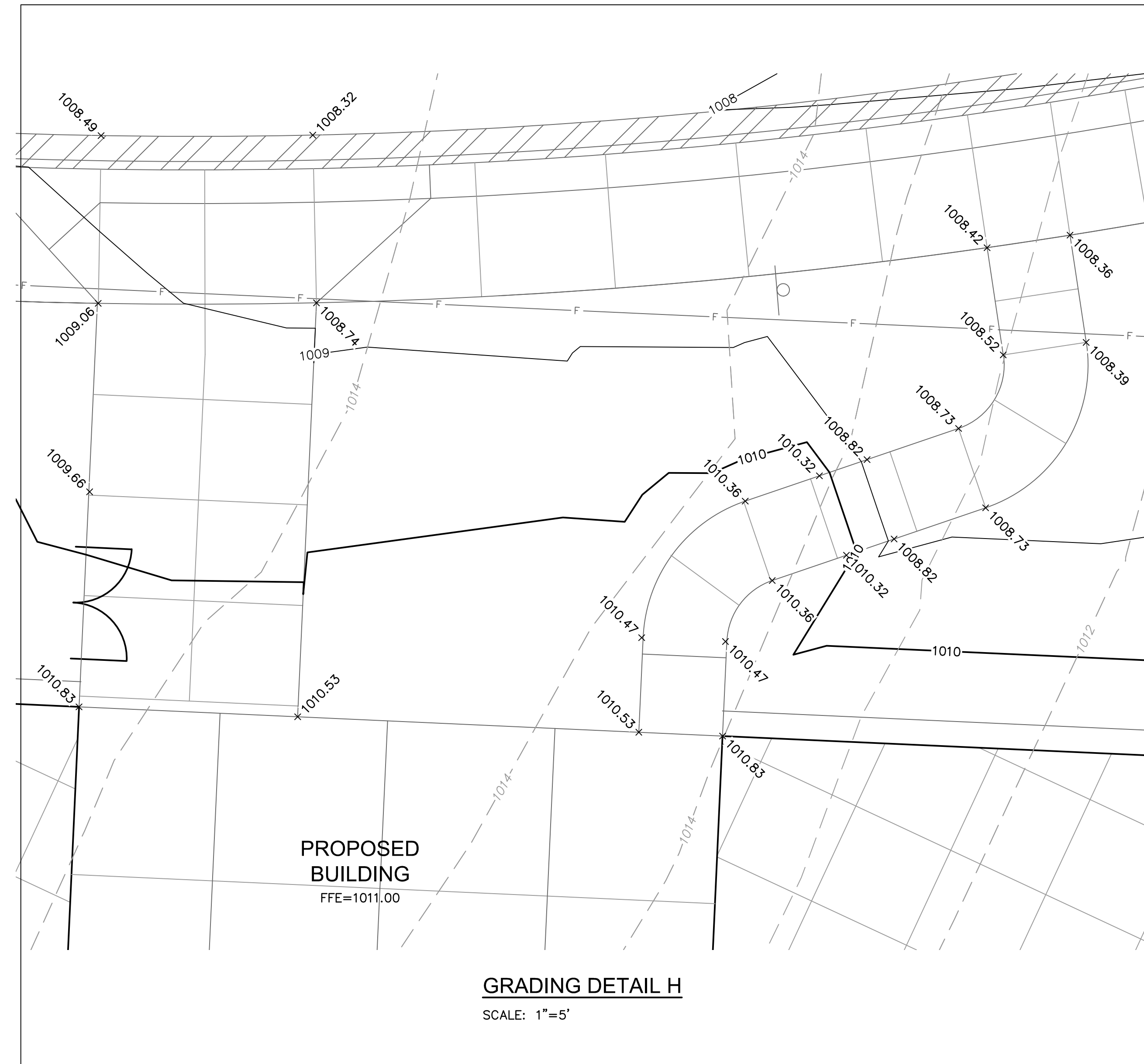
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GRADING DETAILS

C1023



LEGEND

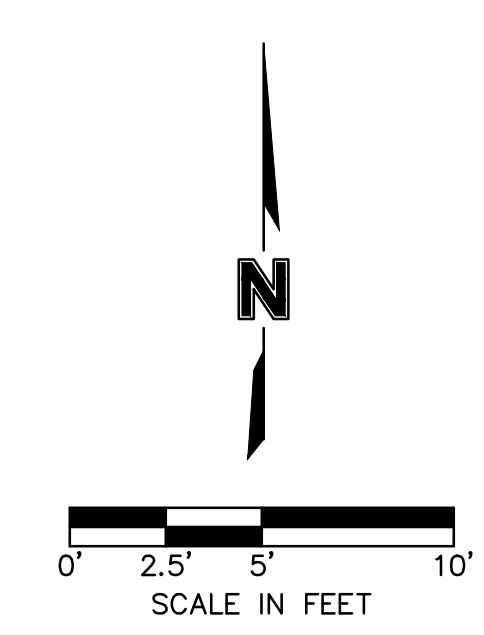
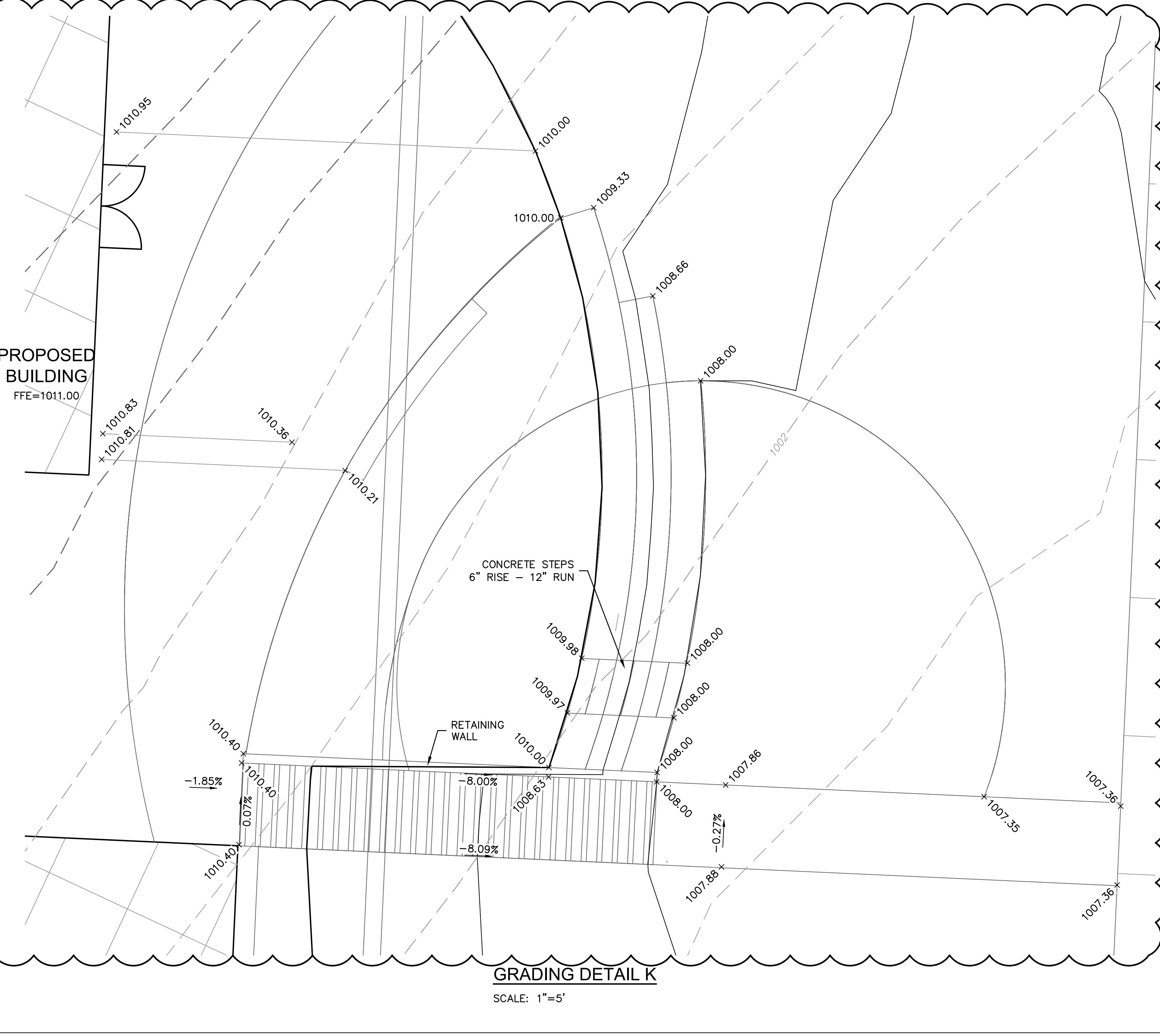
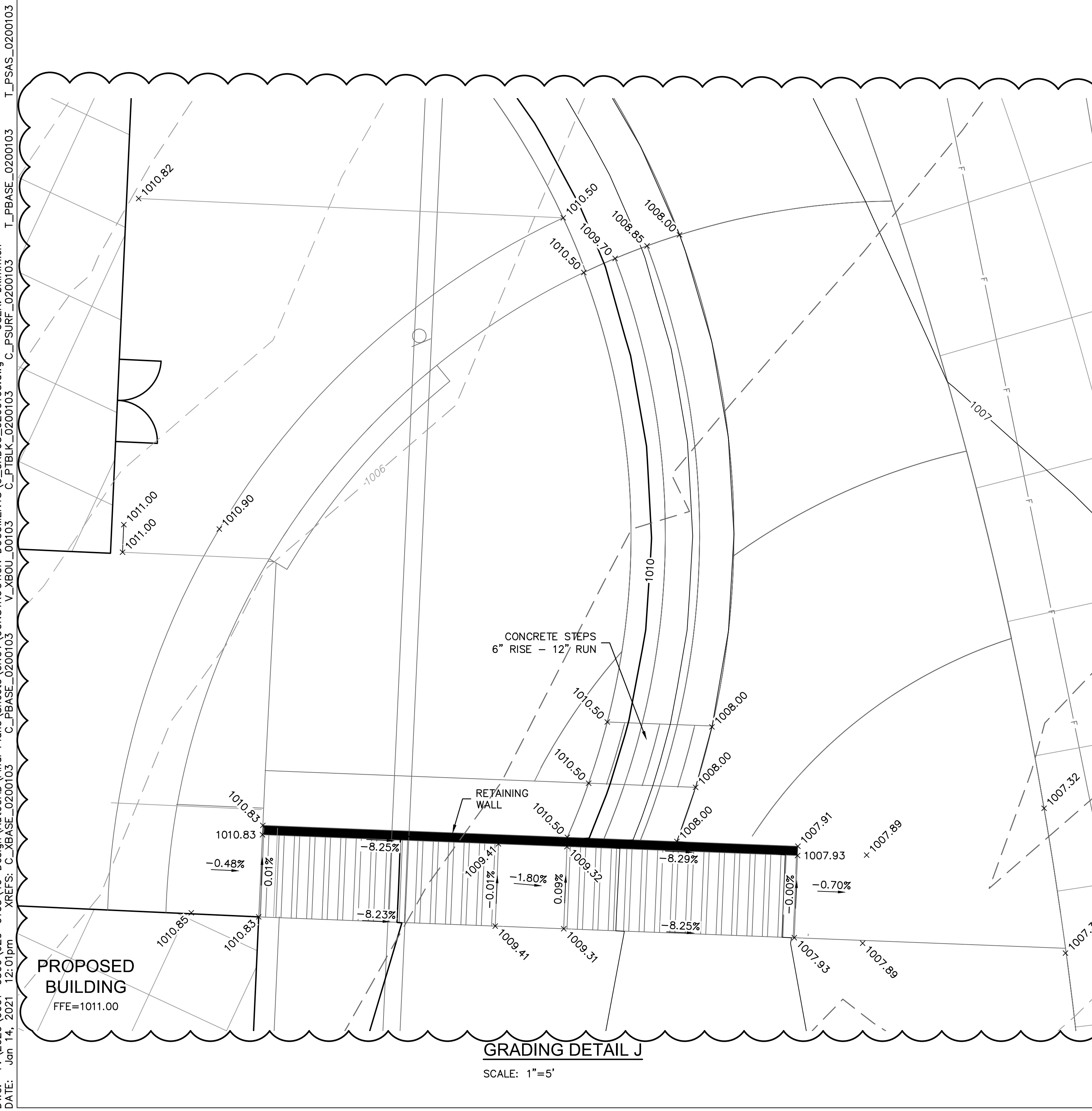
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---	PROPOSED MINOR CONTOUR
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[L-shaped Symbol]	CONCRETE CURB & GUTTER TYPE "CG-1"
[L-shaped Symbol]	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
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 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

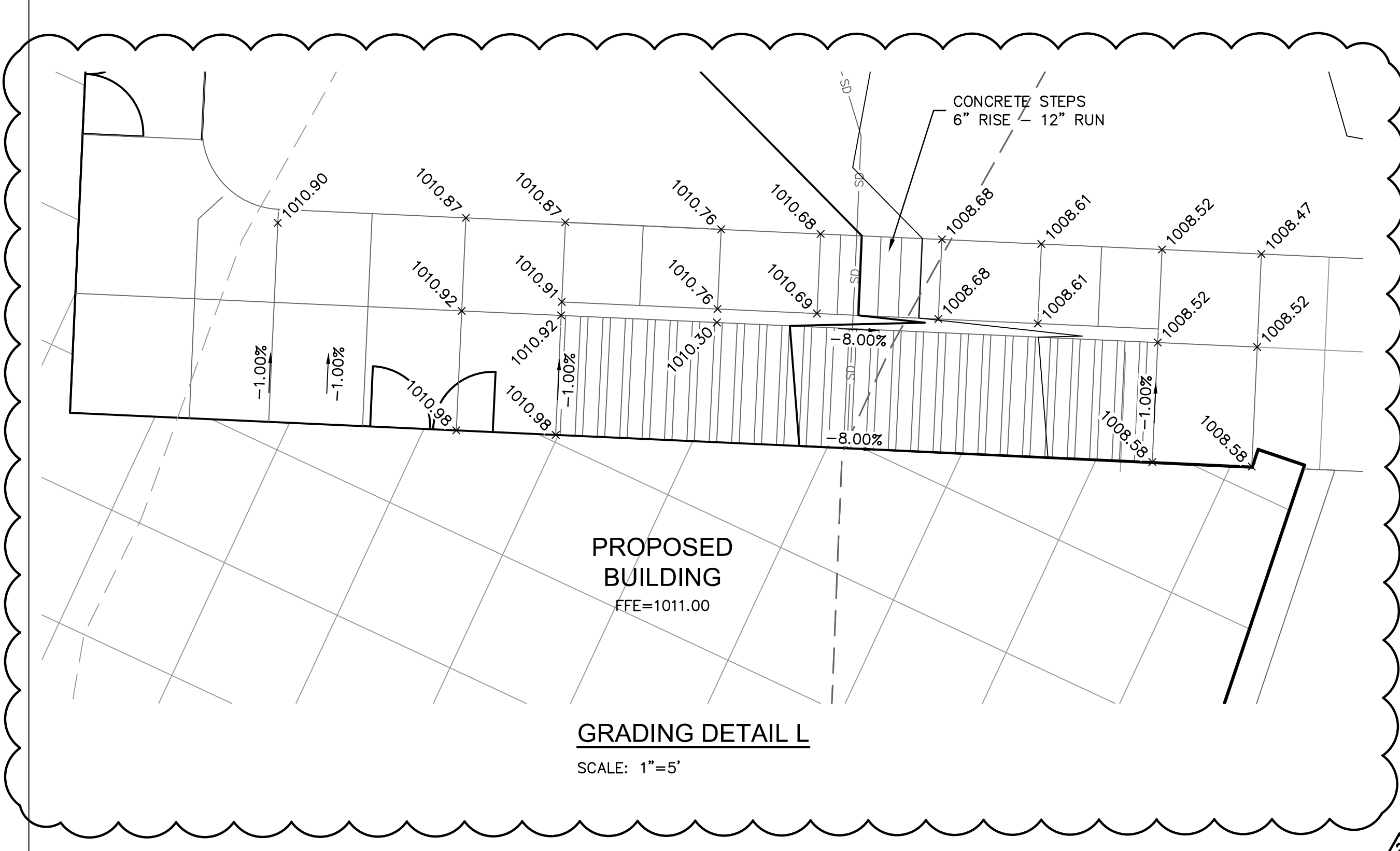
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 UTILITIES
 ISSUED FOR PERMIT
 08/28/20

PR002R 01.14.21

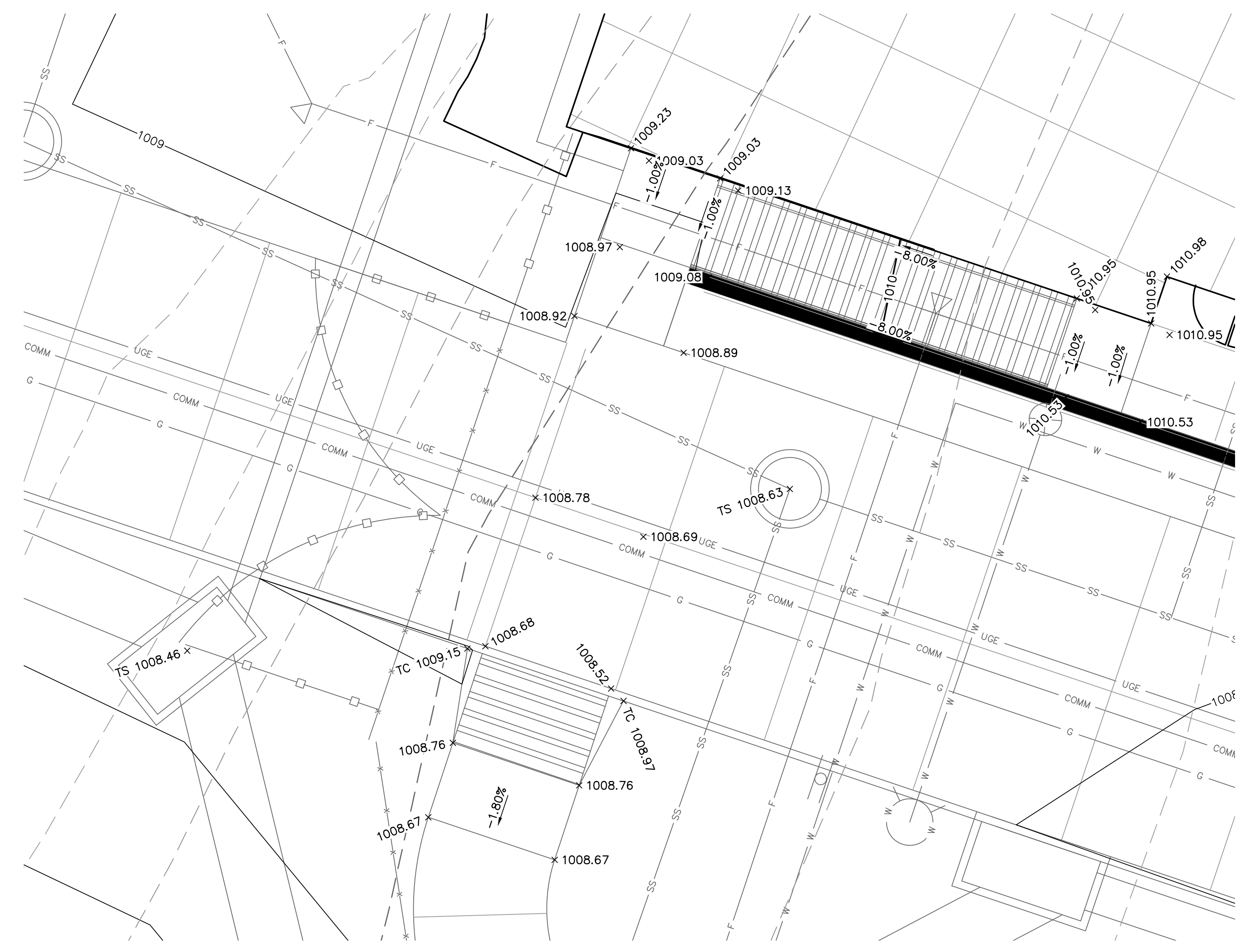
13-20102-00

GRADING DETAILS

C1024



PROPOSED BUILDING
FFE=1011.00
GRADING DETAIL L
SCALE: 1"=5'



GRADING DETAIL M
SCALE: 1"=5'

LEGEND

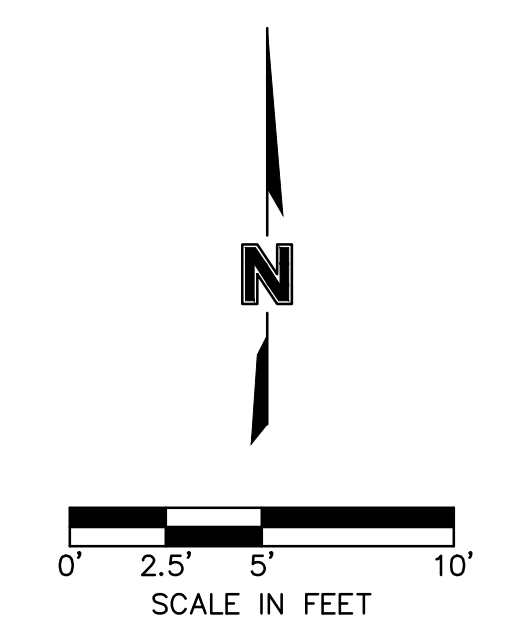
---	PROPERTY LINE
- - - - -	EXISTING MAJOR CONTOUR
- - - - -	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
[Hatched]	RAMP
[Symbol]	CONCRETE CURB & GUTTER TYPE "CG-1"
[Symbol]	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
[Symbol]	CONCRETE CURB TYPE "C-1" MODIFIED

- NOTES:**
1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
 2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
 3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC=	TOP OF CURB
FG=	FINISHED GRADE WITHIN GREENSPACE
TS=	TOP OF STRUCTURE
TP=TC=	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP=	HIGH POINT
LP=	LOW POINT
MATCH EX=	MATCH EXISTING
FFE=	FINISH FLOOR ELEVATION AT TOP OF SLAB



DLR Group
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Missouri State Certificate of Authority #0099

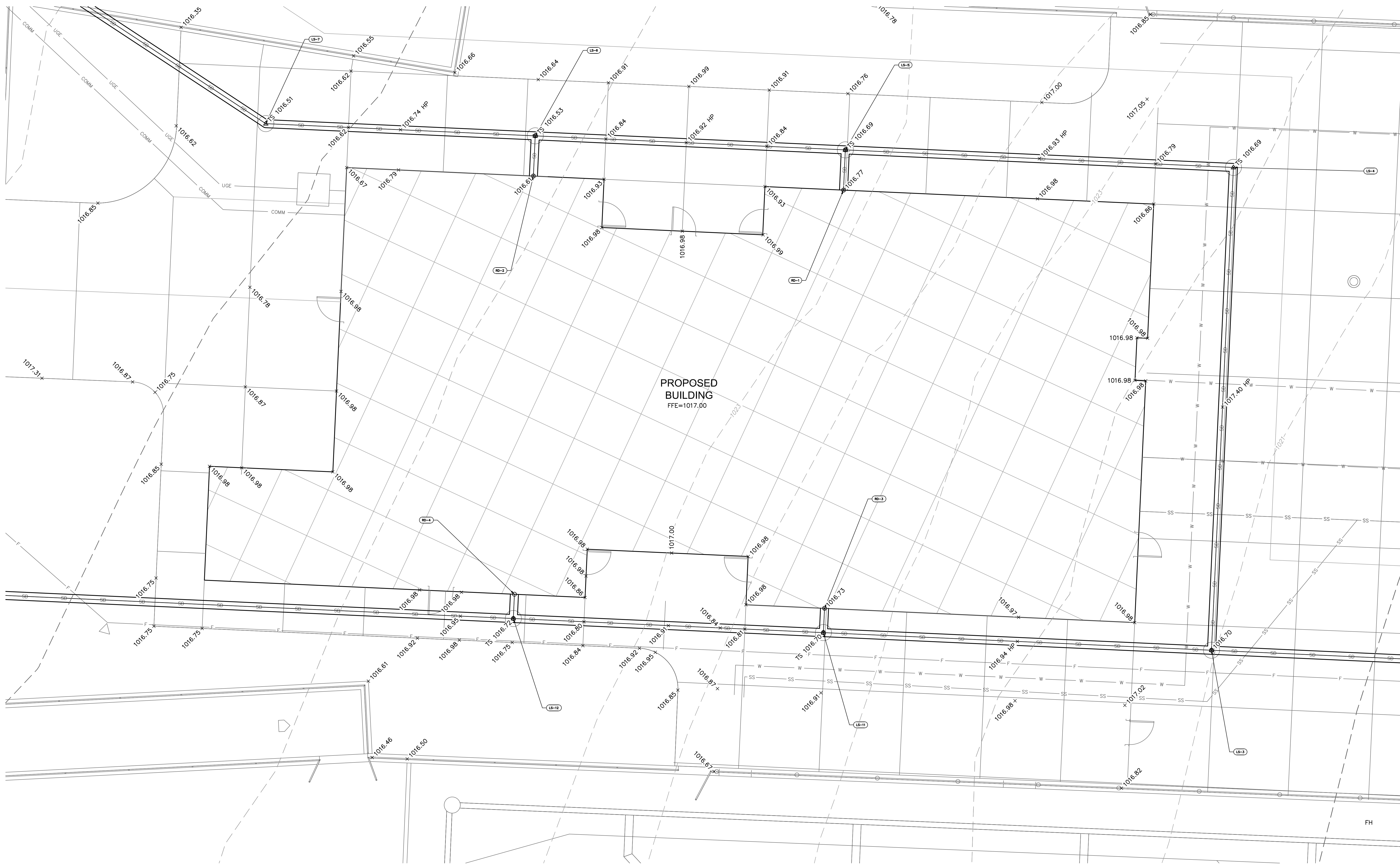
olsson
OLSSON, CIVIL ENGINEERING
MO. CERTIFICATE OF AUTHORITY #001982
7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
TEL: 913.381.1170
www.olsosn.com

LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64881

PACKAGE 2-
STRUCTURAL & SITE
UTILITIES
ISSUED FOR PERMIT
08/28/20
PR002R 01.14.21

13-20102-00
GRADING DETAILS
C1025

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\CONSTRUCTION DOCUMENTS\C_GRD050_0200103.dwg
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 V_XBOL_00103
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GRADING DETAIL N

SCALE: 1"=5'

LEGEND

	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR

	RAMP
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	CONCRETE CURB TYPE "C-1" MODIFIED

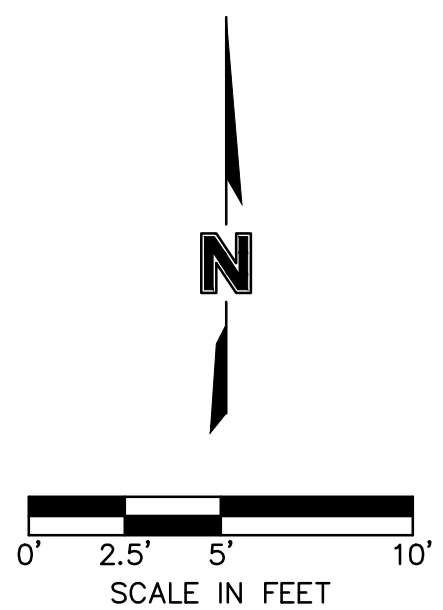
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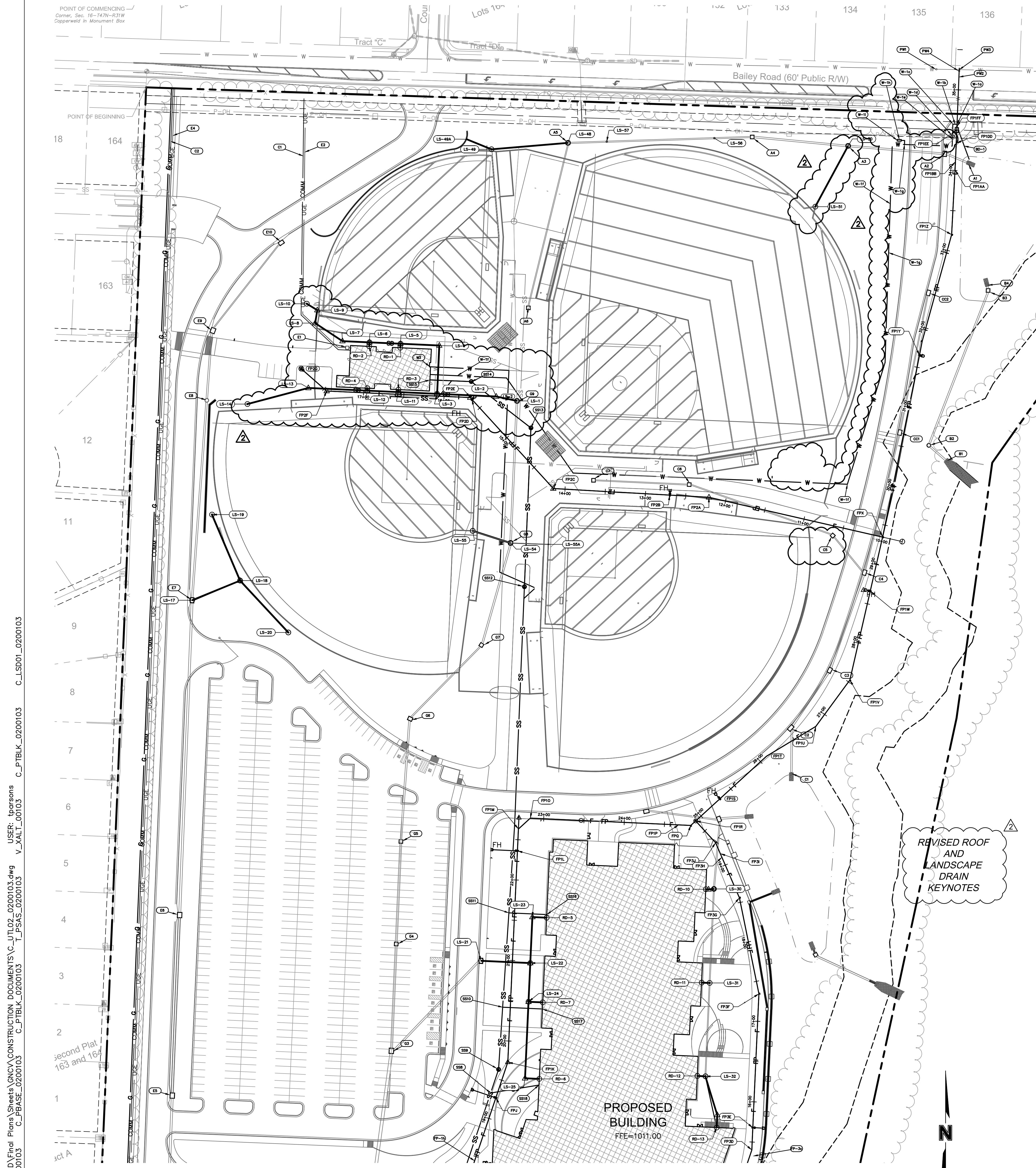
- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
- ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
- ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
- REFERENCE SHEET C1026 FOR LANDSCAPE AND ROOF DRAIN KEYNOTE ELEVATIONS.

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. REF. PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC= TOP OF CURB
 FG= FINISHED GRADE WITHIN GREENSPACE
 TS= TOP OF STRUCTURE
 TP=TC= CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
 HP= HIGH POINT
 LP= LOW POINT
 MATCH EX.= MATCH EXISTING
 FFE= FINISH FLOOR ELEVATION AT TOP OF SLAB





KEY NOTES:

DOMESTIC WATER

- W1. WATERLINE TO CONCESSION BLDG AND IRRIGATION
- INSTALL 6x6x3 CUT-IN TEE ON PUBLIC MAIN COMING UNDER STREET
- INSTALL 15 LF OF 4" AWWA C900 PIPE FROM TEE TO METER
- INSTALL 3" 90° ELBOW
- INSTALL 2" METER AND PIT PER STANDARD CITY DETAIL
- INSTALL A MINIMUM 10 LF 3" AWWA C900 FROM METER TOWARDS BUILDING
- CONTINUE BUILDING SERVICE CONNECTION WITH 1018± LF OF 3" AWWA C900 PIPE RE: MEP FOR CONNECTION TO BLDG AND BACKFLOW PREVENTION.
- INSTALL 3x3x3 TEE AND 12 LF 3" AWWA C900 PIPE
- INSTALL 2" DUCT METER (FOR IRRIGATION) IN METER PIT PER CITY STANDARD DETAIL
- CONTINUE IRRIGATION SERVICE INCLUDING BACKFLOW PREVENTION AND BOOSTER PUMP PER LANDSCAPE PLANS

PUBLIC WATER (CONSTRUCT PER PUBLIC IMPROVEMENT PLANS)

ALL WORK ON THE PUBLIC MAIN SHALL BE CONSTRUCTED AND INSTALLED PER CITY STANDARDS, INCLUDING WATER SHUT OFF, PUBLIC NOTIFICATION AND CONSTRUCTION AT NIGHT

- PW1. PROPOSED 16" BUTTERFLY VALVE ON PUBLIC WATER MAIN
- PW2. PUBLIC WATER MAIN WILL BE INSTALLED BY BORE UNDER BAILEY ROAD
- PW3. CUT 16x16x6 TEE ON PUBLIC MAIN
- PW4. INSTALL 6" GATE VALVE ON NORTH SIDE OF BAILEY ROAD

FIRE PROTECTION:

ALL FIRE PROTECTION LINE SHALL BE 6" AWWA C900 U.N.O. ALL PUBLIC FITTINGS AND FIRE PROTECTION LINE FITTINGS MUST BE ZINC COATED DUCTILE IRON PIPE REFERENCE SHEETS C1028A AND C1028B FOR PROFILES AND KEYNOTE DESCRIPTIONS.

SANITARY SEWER:

REF: SHEET C1028C FOR PROFILES AND KEYNOTE DESCRIPTIONS

ELECTRICAL:

- E1. PROPOSED TRANSFORMER LOCATION. COORDINATED INSTALLATION WITH UTILITY COMPANY AND MEP PLANS. CONTRACTOR TO INSTALL TRANSFORMER PAD PER UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
- E2. INSTALL 404-LF OF PVC CONDUIT FOR PRIMARY ELECTRICAL SERVICE PER UTILITY COMPANY STANDARDS AND SPECIFICATIONS. VERIFY CONDUIT SIZE AND ROUTING WITH KCP&L. ELECTRICAL DESIGN IS BY KCP&L. THE ALIGNMENT SHOWN ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE ROUTE DIRECTLY WITH KCP&L AND PROVIDE NECESSARY CONDUIT TO SERVE THE PROJECT. SEE MEP PLANS FOR LIGHTING AND LIGHTING CONDUIT.

COMMUNICATIONS:

- C1. INSTALL 352±LF OF 2-4" PVC CONDUIT W/PULL STRING. COORDINATE CONNECTION AND LOCATION WITH COMMUNICATIONS COMPANY.

BACKFLOW DRAIN:

- BD-1. INSTALL 42 LF OF 2" SDR26 PVC PIPE FROM BFP PIT TO DETENTION BASIN @ 1% MINIMUM SLOPE

SANITARY SERVICE:

- SS-15. INSTALL 51.3 LF OF 4" PVC (SDR-26) SANITARY SERVICE FROM SS-14 TO BUILDING (INV EL=1014.25) RE:MEP
- SS-16. INSTALL 47.0 LF OF 4" PVC (SDR-26) SANITARY SERVICE FROM SS-11 TO BUILDING (INV EL=1005.00) RE:MEP
- SS-17. INSTALL 47.0 LF OF 4" PVC (SDR-26) SANITARY SERVICE FROM SS-10 TO BUILDING (INV EL=1003.45) RE:MEP
- SS-18. INSTALL 60.8 LF OF 4" PVC (SDR-26) SANITARY SERVICE FROM SS-8 TO BUILDING (INV EL=1005.00) RE:MEP

- EXISTING CONDITIONS LEGEND**
- PROPERTY LINES
 - RIGHT-OF-WAY LINES
 - EASEMENT LINES
 - P-OH --- OVERHEAD ELECTRIC
 - P-UG --- UNDERGROUND ELECTRIC
 - TEL --- UNDERGROUND TELEPHONE
 - FO --- UNDERGROUND FIBER OPTIC
 - G --- GAS LINE
 - W --- WATER LINE
 - SS --- STORM SEWER LINE
 - SS --- SANITARY SEWER LINE
- PROPOSED CONDITIONS LEGEND**
- E --- PROPOSED UNDERGROUND ELECTRIC
 - FO --- PROPOSED FIBER OPTIC
 - W --- PROPOSED WATER LINE
 - FP --- PROPOSED FIRE PROTECTION LINE
 - SD --- PROPOSED STORM SEWER LINE
 - T --- PROPOSED TURF DRAIN LINE
 - SS --- PROPOSED SANITARY SEWER SERVICE
 - CONCRETE CURB & GUTTER
 - PROPOSED BUILDING

LANDSCAPE AND ROOF DRAINS:

(LEN REFERS TO THE LENGTH OF THE DOWNSTREAM PIPE FROM THE STRUCTURE IN LINEAL FEET. ALL PIPES SHALL BE 24" UNLESS NOTED OTHERWISE)

KEYNOTE	DS STRUC	TYPE	TS	N		NE		E		SE		S		SW		NW		
				IE	LEN	IE	LEN	IE	LEN	IE	LEN	IE	LEN	IE	LEN	IE	LEN	
L5-1	G8	CONNECTION TO G9	1016.20															
L5-2	G9 (L5-1)	24" NYLOPLAST BASIN W/ GRATED LID	1016.30					1009.84	15	24.4						1009.58	15	
L5-3	L5-2	24" NYLOPLAST BASIN W/ GRATED LID	1016.70	1010.58	12			1010.58	15	73.5						1010.58	12	
L5-4	L5-3	24" NYLOPLAST BASIN W/ GRATED LID	1016.09									1011.18	12	60		1011.18	12	
L5-5	L5-4	24" NYLOPLAST BASIN W/ GRATED LID	1016.09					1011.46	12	45.9						1011.46	12	
L5-6	L5-5	24" NYLOPLAST BASIN W/ GRATED LID	1016.53					1012.08	12	38.6						1012.08	12	
L5-7	L5-6	24" NYLOPLAST BASIN W/ GRATED LID	1016.51					1012.39	12	35.8						1012.35	12	
L5-8	L5-7	24" NYLOPLAST BASIN W/ GRATED LID	1015.85	1012.67	10						1013.07	12	40.6					
L5-9	L5-8	FIELD DRAIN (DLR)	1016.00			1011.30	12						1012.80	10	16.9		1012.80	8
L5-10	L5-9	24" NYLOPLAST BASIN W/ GRATED LID	1016.60								1012.95	8	15.3					
L5-11	L5-3	24" NYLOPLAST BASIN W/ GRATED LID	1016.70	1010.43	6			1010.38	12	48.2						1010.58	12	
L5-12	L5-11	24" NYLOPLAST BASIN W/ GRATED LID	1016.77	1010.63	6			1011.03	12	38.6						1011.03	10	
L5-13	L5-12	24" NYLOPLAST BASIN W/ GRATED LID	1016.81					1012.02	10	73.2			1012.02	8				
L5-14	L5-13	24" NYLOPLAST BASIN W/ GRATED LID	1013.86			1012.52	8	78.3										
L5-17	E6	CONNECTION TO E7	1010.05					1009.82	8									
L5-18	E7 (L5-17)	24" NYLOPLAST BASIN W/ GRATED LID	1014.50								1010.45	8				1010.45	8	
L5-19	L5-18	24" NYLOPLAST BASIN W/ GRATED LID	1013.36								1011.35	8	89.2					
L5-20	L5-18	24" NYLOPLAST BASIN W/ GRATED LID	1014.50													1011.34	8	
L5-21	G3	CONNECTION TO G3	1008.63					1007.73	12									
L5-22	G3 (L5-21)	24" NYLOPLAST BASIN W/ GRATED LID	1010.40	1003.84	8						1003.84	10				1003.84	12	
L5-23	L5-22	24" NYLOPLAST BASIN W/ GRATED LID	1010.07					1008.71	8				1009.21	8	57.2			
L5-24	L5-22	INSERT-A-TEE	1010.27	1004.32	10	48.1							1004.32	6			1004.32	8
L5-25	L5-24	24" NYLOPLAST BASIN W/ GRATED LID	1010.83	1005.27	6	95.1											1005.27	6
L5-26	G1	CONNECT TO H1	1008.46			1002.60	12											
L5-27	H1 (L5-26)	24" NYLOPLAST BASIN W/ GRATED LID	1010.55					1008.00	10				1002.34	12	33.8			
L5-28	L5-27	24" NYLOPLAST BASIN W/ GRATED LID	1007.00			1003.34	8											
L5-29	L5-28	24" NYLOPLAST BASIN W/ GRATED LID	1007.00								1003.88	8	53.5					
L5-30	K2	CONNECTION TO K3	1007.79													1005.95	8	
L5-31	K3	CONNECTION TO K4	1009.74													1005.95	8	
L5-32	K4	CONNECTION TO F5	1009.78								1008.48	6				1008.62	8	
L5-33	F7	CONNECTION TO F8	1006.41			1003.65	12										1003.65	6
L5-34	F8 (L5-33)	24" NYLOPLAST BASIN W/ GRATED LID	1006.08					1003.74	12	24.6						1003.76	12	
L5-35	L5-34	24" NYLOPLAST BASIN W/ GRATED LID	1006.63			1003.96	12	22.1								1003.96	12	
L5-36	L5-35	24" NYLOPLAST BASIN W/ GRATED LID	1009.76			1005.23	12	87.6					1005.23	12	87.6		1005.23	6
L5-37	L5-36	24" NYLOPLAST BASIN W/ GRATED LID	1009.96			1005.79	8						1005.79	10	55.8		1005.79	10
L5-38	F5	CONNECTION TO F6	1006.52								1002.26	12						
L5-39	L5-38	24" NYLOPLAST BASIN W/ GRATED LID	1004.05	1002.39	12	17.9		1002.39	8				1003.01	8		1002.39	10	
L5-40	L5-39	24" NYLOPLAST BASIN W/ GRATED LID	1003.35								1002.44	5				1002.94	8	
L5-41	L5-40	24" NYLOPLAST BASIN W/ GRATED LID	1004.76													1002.22	6	
L5-42	L5-41	24" NYLOPLAST BASIN W/ GRATED LID	1003.68					1003.55	8	40.3			1003.55	8			1003.22	6
L5-44	L5-39	24" NYLOPLAST BASIN W/ GRATED LID	1003.48										1003.55	8			1002.84	8
L5-45	L5-44	24" NYLOPLAST BASIN W/ GRATED LID	1004.92			1002.68	8	27.1					1002.84	8	41.3		1002.84	8
L5-46	L5-45	24" NYLOPLAST BASIN W/ GRATED LID	1004.92								1002.84	8	41.3				1002.84	8
L5-47	L5-46	24" NYLOPLAST BASIN W/ GRATED LID	1004.61								1002.91	8	14.5				1002.84	8
L5-48	A4	CONNECTION TO A5	1015.00					1013.98	10									
L5-49	A5 (L5-48)	FIELD DRAIN (DLR)	1015.06					1012.89	10	92.5						1013.00	8	
L5-49A	L5-49A	CONNECT TO RET WALL FOUND DRAIN	1012.86								1010.80	5	38.2					
L5-50	A2	CONNECTION TO A3	1016.37										1010.00	12				
L5-51	A3 (L5-50)	FIELD DRAIN (DLR)	1014.00			1011.30	12	85.7										
L5-54	G7	CONNECTION TO G8	1016.03					1010.50	6							1010.50	6	
L5-55	G8 (L5-54)	FIELD DRAIN (DLR)	1016.55					1013.00	6	49.2								
L5-55A	G8 (L5-54)	FIELD DRAIN (DLR)	1016.93															
L5-56	LINE A	INSERT-A-TEE W/FIELD DRAIN	1014.92															
L5-57	LINE A	INSERT-A-TEE W/FIELD DRAIN	1014.92															
L5-58	F2	CONNECTION TO F3	1015.64								998.88	12						
L5-59	F3 (L5-58)	24" NYLOPLAST BASIN W/ GRATED LID	1004.67			999.43	8				999.43	10				999.43	12	
L5-60	L5-59	FIELD DRAIN (DLR)	1005.00			1000.27	10	41.5										
L5-61	L5-59	24" NYLOPLAST BASIN W/ GRATED LID	1003.00			999.55	8				999.55	8	51.1					
L5-62	L5-61	24" NYLOPLAST BASIN W/ GRATED LID	1003.00			1000.76	6						1000.76	8	81.1			
L5-63	L5-62	24" NYLOPLAST BASIN W/ GRATED LID	1003.00								1001.50	6	74					
L5-64	L5-59	24" NYLOPLAST BASIN W/ GRATED LID	1003.00			999.63	8	21.1					999.61	8				
L5-65	L5-64	24" NYLOPLAST BASIN W/ GRATED LID	1003.00			1000.14	8	66					1000.14	8				
L5-66	L5-65	24" NYLOPLAST BASIN W/ GRATED LID	1003.00			1000.82	8	84.6					1000.82	6				
L5-67	L5-66	24" NYLOPLAST BASIN W/ GRATED LID	1003.00			1001.50	6	85.2					1000.82	6				
RD-1	L5-5	ROOF DRAIN CONNECTION	1013.40	6	5													
RD-2	L5-6	ROOF DRAIN CONNECTION	1013.40	6	5													
RD-3	L5-11	ROOF DRAIN CONNECTION									1013.40	6	3					
RD-4	L5-12	ROOF DRAIN CONNECTION									1013.40	6	3					
RD-5	L5-23	ROOF DRAIN CONNECTION											1008.39	8	17.7			
RD-6	L5-25	ROOF DRAIN CONNECTION											1008.67	6	17.7			
RD-7	L5-24	ROOF DRAIN CONNECTION											1008.39	8	17.7			
RD-8	L5-26A	ROOF DRAIN CONNECTION														1008.25	8	
RD-9	L5-27	ROOF DRAIN CONNECTION														1008.26	10	
RD-10	K3 (L5-30)	ROOF DRAIN CONNECTION						1006.00	8	10								
RD-11	K4 (L5-31)	ROOF DRAIN CONNECTION						1006.00	8	10								
RD-12	K5 (L5-32)	ROOF DRAIN CONNECTION						1006.67	8	10								
RD-13	K5 (L5-32)	ROOF DRAIN CONNECTION	1006.81	6	65													
RD-14	L5-37	ROOF DRAIN CONNECTION									1006.00	6	20.9					
RD-15	L5-36	ROOF DRAIN CONNECTION									1006.00	8	9.5					
RD-16	L5-25	ROOF DRAIN CONNECTION						1004.34	10	94.2								

DATE: Jun 15, 2021 10:17am

USER: lparsons

PROJECT: Lee's Summit Middle School #4

SCALE IN FEET

0' 30' 60' 120'

REVISIONS

1. REVISED ROOF AND LANDSCAPE DRAIN KEYNOTES

POINT OF BEGINNING

POINT OF COMMENCING

Tract C

Tract 405a

Tract 405b

Tract 405c

Tract 405d

Tract 405e

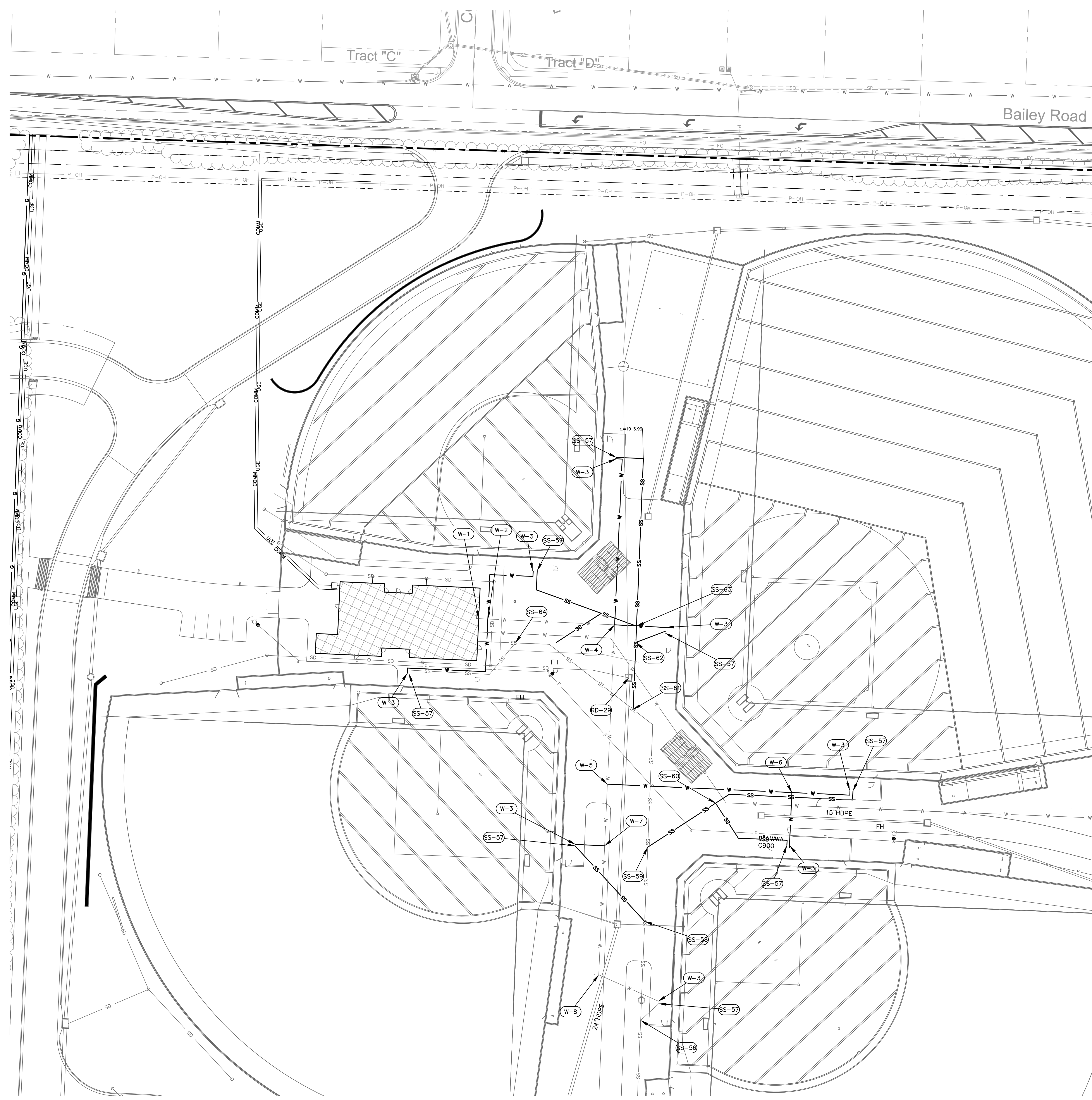
Tract 405f

Tract 405g

Tract 405h

Tract 405i

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 V_XALT_00103
 C_LSD001_0200103



EXISTING CONDITIONS LEGEND

- PROPERTY LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- P-OH OVERHEAD ELECTRIC
- P-UG UNDERGROUND ELECTRIC
- TEL UNDERGROUND TELEPHONE
- FO UNDERGROUND FIBER OPTIC
- G GAS LINE
- W WATER LINE
- SS STORM SEWER LINE
- SS SANITARY SEWER LINE

PROPOSED CONDITIONS LEGEND

- E PROPOSED UNDERGROUND ELECTRIC
- FO PROPOSED FIBER OPTIC
- W PROPOSED WATER LINE
- FP PROPOSED FIRE PROTECTION LINE
- SS PROPOSED STORM SEWER LINE
- T PROPOSED TURF DRAIN LINE
- SS PROPOSED SANITARY SEWER SERVICE
- CONCRETE CURB & CUTTER
- PROPOSED BUILDING

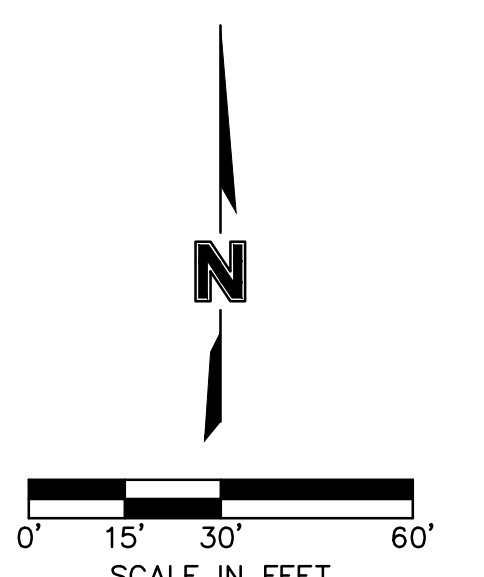
WATERLINE (DUGOUT)

- W-1 INSTALL LF OF 2" AWWA C901 PIPE CONNECT TO BLDG SUPPLY
- W-2 INSTALL 2" CROSS TEE AND:
 NORTH - 66 LF OF 1" AWWA C901 PIPE WITH REDUCER AND BENDS
 EAST - 45 LF OF 2" AWWA C901 PIPE WITH BENDS
 SOUTH - 66 LF OF 1" AWWA C901 PIPE WITH REDUCER AND BENDS
- W-3 STUB UP SUPPLY PIPE AND CONNECT TO SUPPLY LINE ON DUGOUT DRINKING FOUNTAIN (REF: LS DRAWINGS)
- W-4 INSTALL 2" CROSS TEE AND:
 NORTH - 123 LF OF 1" AWWA C901 PIPE WITH REDUCER AND BENDS
 EAST - 37 LF OF 1" AWWA C901 PIPE WITH REDUCER
 SOUTH - 265 LF OF 2" AWWA C901 PIPE
- W-5 INSTALL 2x2x2 TEE AND 177 LF OF 1" AWWA C901 PIPE WITH REDUCER AND BENDS
- W-6 INSTALL 1x1x1 TEE AND 38 LF OF 1" AWWA C901 PIPE
- W-7 INSTALL 2x2x2 TEE AND 22 LF OF 1" AWWA C901 PIPE WITH REDUCER AND BENDS
- W-8 INSTALL BEND AND REDUCER AND 48 LF OF 1" AWWA C901 PIPE

SANITARY SEWER SERVICE (DUGOUT)

- SS-56 INSTALL WYE ON SERVICE LINE AND 18 LF OF 3" PVC (SDR-26) AT 1.0% PERCENT MINIMUM SLOPE
- SS-57 STUB UP PVC PIPE AND CONNECT TO DRAIN LINE ON DUGOUT DRINKING FOUNTAIN (REF: LS DRAWINGS)
- SS-58 INSTALL WYE ON SERVICE LINE AND 74 LF OF 3" PVC (SDR-26) AT 1.0% PERCENT MINIMUM SLOPE
- SS-59 INSTALL WYE ON SERVICE LINE AND 165 LF OF 3" PVC (SDR-26) WITH BENDS AT 1.0% PERCENT MINIMUM SLOPE
- SS-60 INSTALL 2x2x2 TEE ON SERVICE LINE AND 69 LF OF 3" PVC (SDR-26) WITH BENDS AT 1.0% PERCENT MINIMUM SLOPE
- SS-61 INSTALL WYE ON SERVICE LINE AND 199 LF OF 3" PVC (SDR-26) WITH BENDS AT 1.0% PERCENT MINIMUM SLOPE
- SS-62 INSTALL 2x2x2 TEE ON SERVICE LINE AND 22 LF OF 3" PVC (SDR-26) AT 1.0% PERCENT MINIMUM SLOPE
- SS-63 INSTALL 2x2x2 TEE ON SERVICE LINE AND 90 LF OF 3" PVC (SDR-26) WITH BENDS AT 1.0% PERCENT MINIMUM SLOPE
- SS-64 INSTALL WYE ON SERVICE LINE AND 90 LF OF 3" PVC (SDR-26) WITH BENDS AT 1.0% PERCENT MINIMUM SLOPE

ADDED SHEET



DLR Group
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 7301 West 133rd Street, Suite 200
 Overland Park, KS 66213-7750
 TEL: 913.381.1170
 www.olsson.com

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 LEE'S SUMMIT, MO 64881

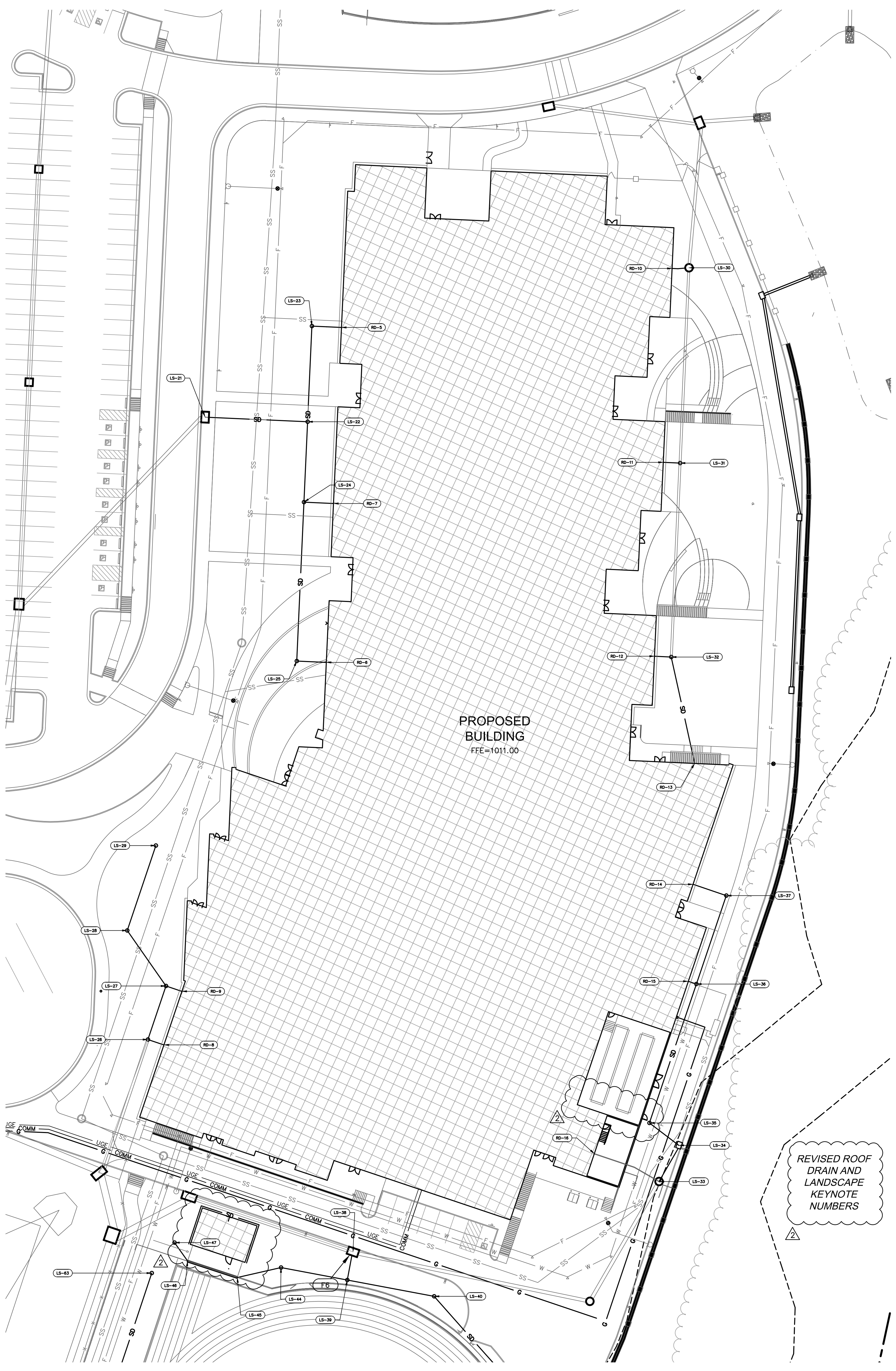
PACKAGE 2-
 STRUCTURAL & SITE
 UTILITIES
 ISSUED FOR PERMIT
 08/28/20

PRO02R 12.18.20

13-20102-00
 UTILITY PLAN

C1026A

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final\Plans\Sheets\GNVC\CONSTRUCTION DOCUMENTS\C_UTL01_0200103.dwg
 DATE: Jun 15, 2021 10:22am
 USER: lparsons
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 V_XALT_00103
 C_LSD01_0200103
 C_PBASE_0200103
 C_PBLK_0200103



EXISTING CONDITIONS LEGEND

- PROPERTY LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- P-OH OVERHEAD ELECTRIC
- P-UG UNDERGROUND ELECTRIC
- TEL UNDERGROUND TELEPHONE
- FO UNDERGROUND FIBER OPTIC
- G GAS LINE
- W WATER LINE
- SS STORM SEWER LINE
- SS SANITARY SEWER LINE

PROPOSED CONDITIONS LEGEND

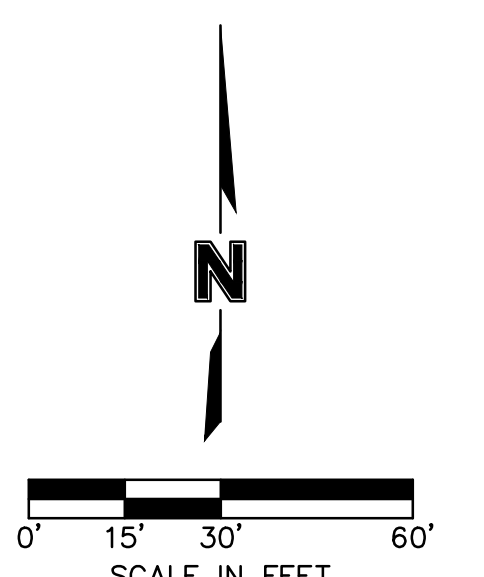
- E PROPOSED UNDERGROUND ELECTRIC
- FO PROPOSED FIBER OPTIC
- W PROPOSED WATER LINE
- FP PROPOSED FIRE PROTECTION LINE
- SD PROPOSED STORM SEWER LINE
- T PROPOSED TURF DRAIN LINE
- SS PROPOSED SANITARY SEWER SERVICE
- Proposed Building

LANDSCAPE AND ROOF DRAINS:

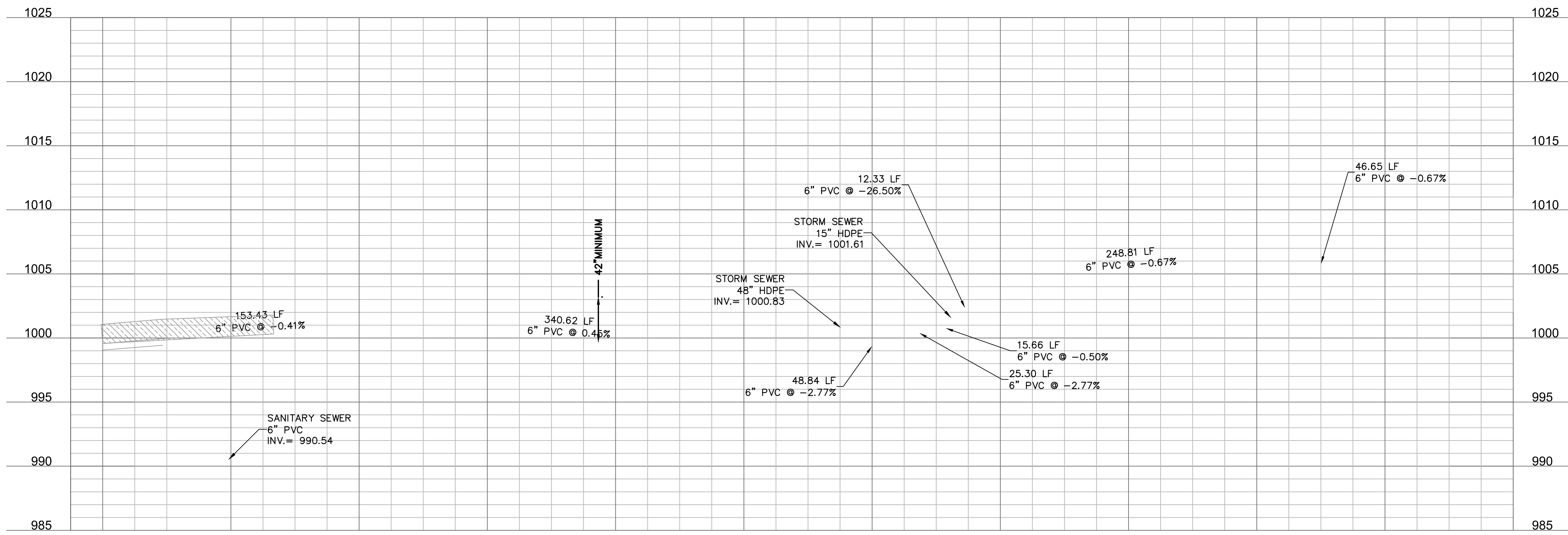
LEN REFERS TO THE LENGTH OF THE DOWNSTREAM PIPE FROM THE STRUCTURE (IN LINEAL FEET, ALL PIPE SHALL HOPE)

KEYNOTE	DS STRUC	TYPE	TO	N		NE		E		SE		S		SW		W		NW	
				IE	SIZE	LEN	IE	SIZE	LEN	IE	SIZE	LEN	IE	SIZE	LEN	IE	SIZE	LEN	IE
LS-1	G8	CONNECTION TO G9	1016.30																
LS-2	G9 (LS-1)	24" NYLOPLAST BASIN W GRATED LID	1016.30																
LS-3	LS-2	24" NYLOPLAST BASIN W GRATED LID	1016.70	1010.58	12														
LS-4	LS-3	24" NYLOPLAST BASIN W GRATED LID	1016.69																
LS-5	LS-4	24" NYLOPLAST BASIN W GRATED LID	1016.69																
LS-6	LS-5	24" NYLOPLAST BASIN W GRATED LID	1016.53																
LS-7	LS-6	24" NYLOPLAST BASIN W GRATED LID	1016.51																
LS-8	LS-7	24" NYLOPLAST BASIN W GRATED LID	1016.35																
LS-9	LS-8	FIELD DRAIN (DLR)	1016.30																
LS-10	LS-9	24" NYLOPLAST BASIN W GRATED LID	1016.40																
LS-11	LS-10	24" NYLOPLAST BASIN W GRATED LID	1016.70	1010.43	6														
LS-12	LS-11	24" NYLOPLAST BASIN W GRATED LID	1016.72	1010.63	6														
LS-13	LS-12	24" NYLOPLAST BASIN W GRATED LID	1014.81																
LS-14	LS-13	24" NYLOPLAST BASIN W GRATED LID	1013.86																
LS-17	E6	CONNECTION TO E7	1020.05																
LS-18	E7 (LS-17)	24" NYLOPLAST BASIN W GRATED LID	1014.50																
LS-19	LS-18	24" NYLOPLAST BASIN W GRATED LID	1013.36																
LS-20	LS-19	24" NYLOPLAST BASIN W GRATED LID	1014.50																
LS-21	G3	CONNECTION TO G3L	1008.63																
LS-22	G3L (LS-21)	24" NYLOPLAST BASIN W GRATED LID	1010.40	1003.84	8														
LS-23	LS-22	24" NYLOPLAST BASIN W GRATED LID	1010.67																
LS-24	LS-23	INSERT-A TEE	1010.67	1004.32	10	48.1													
LS-25	LS-24	24" NYLOPLAST BASIN W GRATED LID	1010.83	1005.27	6	95.1													
LS-26	G1	CONNECTION TO H1	1008.46																
LS-27	H1 (LS-26)	24" NYLOPLAST BASIN W GRATED LID	1010.55																
LS-28	LS-27	24" NYLOPLAST BASIN W GRATED LID	1007.50																
LS-29	LS-28	24" NYLOPLAST BASIN W GRATED LID	1007.50	1003.34	8														
LS-30	K2	CONNECTION TO K3	1007.79																
LS-31	K3	CONNECTION TO K4	1009.74																
LS-32	K4	CONNECTION TO K5	1009.78																
LS-33	F7	CONNECTION TO F8	1006.41																
LS-34	F8 (LS-33)	24" NYLOPLAST BASIN W GRATED LID	1006.38																
LS-35	LS-34	24" NYLOPLAST BASIN W GRATED LID	1006.63																
LS-36	LS-35	24" NYLOPLAST BASIN W GRATED LID	1009.76																
LS-37	LS-36	24" NYLOPLAST BASIN W GRATED LID	1009.96																
LS-38	F5	CONNECTION TO F6	1006.52																
LS-39	LS-38	24" NYLOPLAST BASIN W GRATED LID	1004.95	1002.35	12	17.3													
LS-40	LS-39	24" NYLOPLAST BASIN W GRATED LID	1003.35																
LS-41	LS-40	24" NYLOPLAST BASIN W GRATED LID	1004.76																
LS-42	LS-41	24" NYLOPLAST BASIN W GRATED LID	1003.88																
LS-44	LS-39	24" NYLOPLAST BASIN W GRATED LID	1003.48																
LS-45	LS-44	24" NYLOPLAST BASIN W GRATED LID	1004.52																
LS-46	LS-45	24" NYLOPLAST BASIN W GRATED LID	1004.92																
LS-47	LS-46	24" NYLOPLAST BASIN W GRATED LID	1004.61																
LS-48	A4	CONNECTION TO A5	1015.20																
LS-49	A5 (LS-48)	FIELD DRAIN (DLR)	1015.96																
LS-49A	LS-49A	CONNECT TO RET WALL FOUND DRAIN	1022.86																
LS-50	A2	CONNECTION TO A3	1016.37																
LS-51	A3 (LS-50)	FIELD DRAIN (DLR)	1014.90																
LS-54	G7	CONNECTION TO G8	1016.30																
LS-55	G8 (LS-54)	FIELD DRAIN (DLR)	1016.55																
LS-55A	G8 (LS-54)	FIELD DRAIN (DLR)	1016.93																
LS-56	LINE A	INSERT-A-TEE W/FIELD DRAIN	1014.92																
LS-57	LINE A	INSERT-A-TEE W/FIELD DRAIN	1014.92																
LS-58	F2	CONNECTION TO F3	1003.68																
LS-59	F3 (LS-58)	24" NYLOPLAST BASIN W GRATED LID	1004.67																
LS-60	LS-59	FIELD DRAIN (DLR)	1003.30																
LS-61	LS-60	24" NYLOPLAST BASIN W GRATED LID	1003.30																
LS-62	LS-61	24" NYLOPLAST BASIN W GRATED LID	1003.30																
LS-63	LS-62	24" NYLOPLAST BASIN W GRATED LID	1003.30																
LS-64	LS-63	24" NYLOPLAST BASIN W GRATED LID	1003.30																
LS-65	LS-64	24" NYLOPLAST BASIN W GRATED LID	1003.30																
LS-66	LS-65	24" NYLOPLAST BASIN W GRATED LID	1003.30																
LS-67	LS-66	24" NYLOPLAST BASIN W GRATED LID	1003.20																
RD-1	LS-5	ROOF DRAIN CONNECTION	1013.40	6	5														
RD-2	LS-6	ROOF DRAIN CONNECTION	1013.40	6	5														
RD-3	LS-11	ROOF DRAIN CONNECTION																	
RD-4	LS-12	ROOF DRAIN CONNECTION																	
RD-5	LS-23	ROOF DRAIN CONNECTION																	
RD-6	LS-25	ROOF DRAIN CONNECTION																	
RD-7	LS-24	ROOF DRAIN CONNECTION																	
RD-8	LS-26A	ROOF DRAIN CONNECTION																	
RD-9	LS-27	ROOF DRAIN CONNECTION																	
RD-10	K3 (LS-30)	ROOF DRAIN CONNECTION																	
RD-11	K4 (LS-31)	ROOF DRAIN CONNECTION																	
RD-12	K5 (LS-32)	ROOF DRAIN CONNECTION																	
RD-13	K5 (LS-32)	ROOF DRAIN CONNECTION	1006.81	6	65														
RD-14	LS-37	ROOF DRAIN CONNECTION																	
RD-15	LS-36	ROOF DRAIN CONNECTION																	
RD-16	LS-35	ROOF DRAIN CONNECTION																	

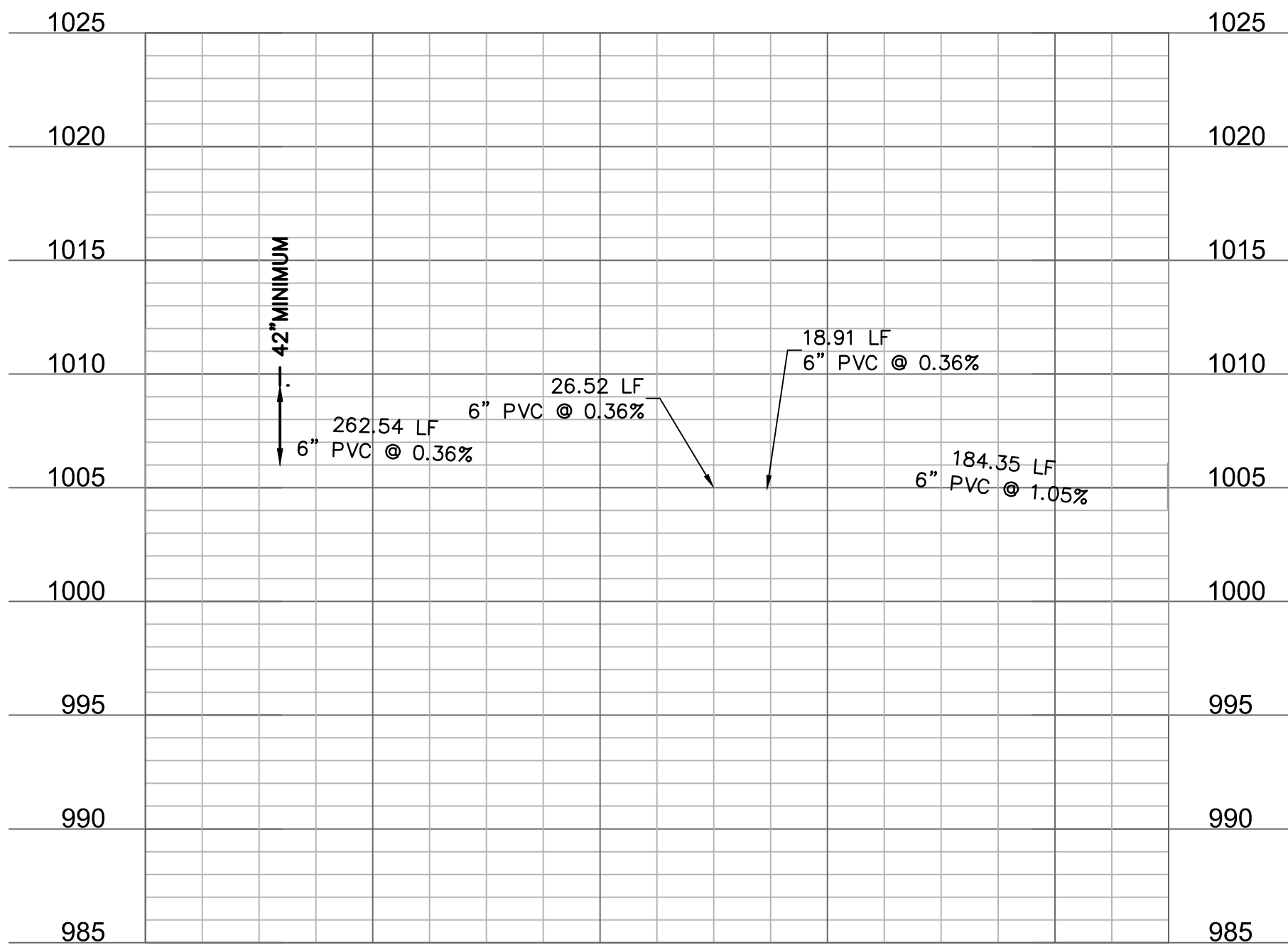
REVISED ROOF DRAIN AND LANDSCAPE KEYNOTE NUMBERS



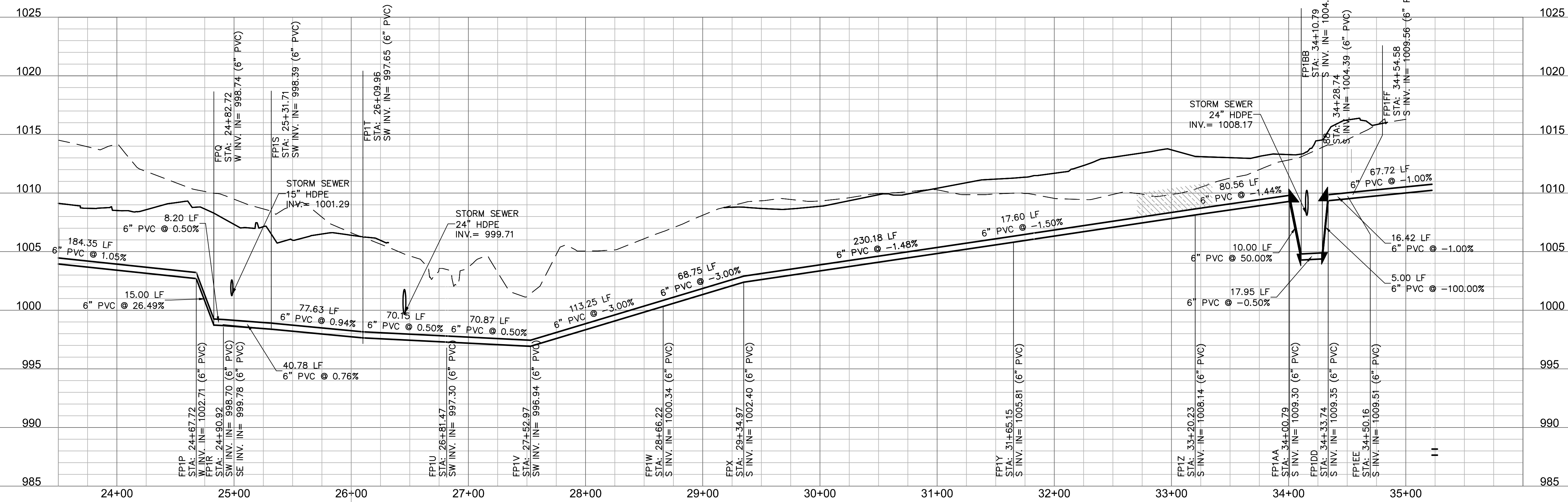
FIRE PROTECTION FP1 (9+75 - 21+00)



FIRE PROTECTION FP1 (20+00 - 24+50)



FIRE PROTECTION FP1 (23+50 - 36+00)



REMOVED INV OUTS

STRUCTURES		STRUCTURES	
ID	DESCRIPTION	ID	DESCRIPTION
FP1A	CONNECT TO PUBLIC MAIN BEGIN CONSTRUCTION FP1 10+00, 0.00' FIRE PROTECTION FP1 INV OUT = 999.06 (6" PVC) N: 991457.497; E: 2831717.706	FP1P	11.25' VERTICAL BEND WITH THRUST BLOCKS 24+67.72, 0.00' FIRE PROTECTION FP1 INV IN = 1002.71 (6" PVC) INV OUT = 1002.71 (6" PVC) N: 992634.100; E: 2832197.090
FP1AA	22.5' VERTICAL BEND WITH THRUST BLOCKS 34+00.79, 0.24' RT FIRE PROTECTION FP1 INV IN = 1009.30 (6" PVC) INV OUT = 1009.30 (6" PVC) N: 993447.120; E: 2832540.009	FP1R	INSTALL 6"x6"x6" TEE END CONSTRUCTION FP3 24+90.92, 0.00' FIRE PROTECTION FP1 INV IN = 998.70 (6" PVC) INV OUT = 998.70 (6" PVC) N: 992638.949; E: 2832218.127
FP1B	INSTALL 6"x6"x4" TEE FOR DOMESTIC SERVICE 10+11.69, 0.00' FIRE PROTECTION FP1 INV IN = 999.15 (6" PVC) INV OUT = 999.15 (6" PVC) N: 991465.015; E: 2831726.659	FP1S	FIRE HYDRANT 25+31.71, 0.00' FIRE PROTECTION FP1 INV IN = 998.59 (6" PVC) INV OUT = 998.59 (6" PVC) N: 992666.462; E: 2832248.234
FP1BB	22.5' VERTICAL BEND WITH THRUST BLOCKS 34+00.79, 0.27' RT FIRE PROTECTION FP1 INV IN = 1004.30 (6" PVC) INV OUT = 1004.30 (6" PVC) N: 993457.107; E: 2832540.530	FP1T	11.25' BEND WITH THRUST BLOCK 26+09.96, 0.01' RT FIRE PROTECTION FP1 INV IN = 997.65 (6" PVC) INV OUT = 997.65 (6" PVC) N: 992719.249; E: 2832305.999
FP1C	INSTALL GATE VALVE PER CITY STANDARDS BEGIN CONSTRUCTION FP1 10+25.84, 0.00' FIRE PROTECTION FP1 INV IN = 999.27 (6" PVC) INV OUT = 999.27 (6" PVC) N: 991474.115; E: 2831737.497	FP1U	22.5' BEND WITH THRUST BLOCK 26+81.47, 0.00' FIRE PROTECTION FP1 INV IN = 997.30 (6" PVC) INV OUT = 997.30 (6" PVC) N: 992756.273; E: 2832367.181
FP1D	INSTALL BACK FLOW PREVENTER AND VAULT PER CITY STANDARDS 10+31.77, 0.00' FIRE PROTECTION FP1 INV IN = 999.32 (6" PVC) INV OUT = 999.32 (6" PVC) N: 991477.926; E: 2831742.036	FP1V	22.5' BEND WITH THRUST BLOCKS 27+52.97, 0.00' FIRE PROTECTION FP1 INV IN = 996.94 (6" PVC) INV OUT = 996.94 (6" PVC) N: 992813.870; E: 2832409.543
FP1DD	45' VERTICAL BEND WITH THRUST BLOCKS 34+33.74, 0.14' RT FIRE PROTECTION FP1 INV IN = 1009.35 (6" PVC) INV OUT = 1009.35 (6" PVC) N: 993480.039; E: 2832541.526	FP1W	INSTALL FIRE HYDRANT AND GATE VALVE PER CITY STANDARDS 28+66.22, 0.00' FIRE PROTECTION FP1 INV IN = 1000.34 (6" PVC) INV OUT = 1000.34 (6" PVC) N: 992924.270; E: 2832434.809
FP1EE	INSTALL BACK FLOW PREVENTER AND VAULT PER CITY STANDARDS END CONSTRUCTION FP1 34+55.16, 0.00' FIRE PROTECTION FP1 INV IN = 1009.51 (6" PVC) INV OUT = 1009.51 (6" PVC) N: 993496.448; E: 2832542.196	FP1Y	FIRE HYDRANT 31+65.15, 0.00' FIRE PROTECTION FP1 INV IN = 1005.81 (6" PVC) INV OUT = 1005.81 (6" PVC) N: 993216.880; E: 2832495.862
FP1FF	22.5' BEND WITH THRUST BLOCKS 10+46.57, 0.00' FIRE PROTECTION FP1 INV IN = 999.44 (6" PVC) INV OUT = 999.44 (6" PVC) N: 991487.446; E: 2831753.373	FP1Z	22.5' BEND WITH THRUST BLOCKS 33+20.23, 0.00' FIRE PROTECTION FP1 INV IN = 1008.14 (6" PVC) INV OUT = 1008.14 (6" PVC) N: 993366.671; E: 2832535.815
FP1FF	INSTALL GATE VALVE PER CITY STANDARDS 34+54.58, 0.00' FIRE PROTECTION FP1 INV IN = 1009.56 (6" PVC) INV OUT = 1009.56 (6" PVC) N: 993500.867; E: 2832542.377	FPJ	INSTALL FIRE HYDRANT AND GATE VALVE PER CITY STANDARDS 19+27.04, 0.00' FIRE PROTECTION FP1 INV IN = 1005.46 (6" PVC) INV OUT = 1005.46 (6" PVC) N: 992295.397; E: 2831970.116
FP1G	INSTALL FIRE HYDRANT AND GATE VALVE PER CITY STANDARDS 12+34.48, 0.00' FIRE PROTECTION FP1 INV IN = 999.91 (6" PVC) INV OUT = 999.91 (6" PVC) N: 991665.699; E: 2831812.816	FPQ	45' BEND WITH THRUST BLOCK 24+82.72, 0.00' FIRE PROTECTION FP1 INV IN = 998.74 (6" PVC) INV OUT = 998.74 (6" PVC) N: 992633.418; E: 2832212.075
FP1GG	INSTALL GATE VALVE PER CITY STANDARDS 35+22.31, 0.00' LT FIRE PROTECTION FP1 INV IN = 1010.23 (6" PVC) INV OUT = 987.65 (6" PVC) N: 993568.535; E: 2832545.138	FPX	INSTALL 6"x6"x6" TEE BEGIN CONSTRUCTION FP2 29+34.97, 0.00' FIRE PROTECTION FP1 INV IN = 1002.40 (6" PVC) INV OUT = 1002.40 (6" PVC) N: 992991.885; E: 2832450.146
FP1H	INSTALL 6"x6"x6" TEE 16+23.93, 0.00' FIRE PROTECTION FP1 INV IN = 999.73 (6" PVC) INV OUT = 999.73 (6" HDPE) INV OUT = 999.73 (6" PVC) N: 992035.151; E: 2831936.017		
FP1HH	CONSTRUCT PUBLIC TIE IN CONSTRUCT OUT-IN TEE AT THE EXISTING 16" PUBLIC MAIN 35+26.98, 0.00' FIRE PROTECTION FP1 INV IN = 987.65 (6" PVC) INV OUT = 999.73 (6" PVC) N: 993573.202; E: 2832545.331		
FP1I	45' BEND WITH THRUST BLOCKS W/ 11.25 VERTICAL BEND WITH THRUST BLOCKS 16+65.90, 0.00' FIRE PROTECTION FP1 INV IN = 1000.53 (6" PVC) INV OUT = 1000.53 (6" PVC) N: 992048.542; E: 2831896.236		
FP1J	45' BEND WITH THRUST BLOCKS W/ 11.25 VERTICAL BEND WITH THRUST BLOCKS 16+78.23, 0.00' FIRE PROTECTION FP1 INV IN = 1003.80 (6" PVC) INV OUT = 1003.80 (6" PVC) N: 992059.584; E: 2831890.756		
FP1K	11.25' BEND WITH THRUST BLOCK 19+73.69, 0.00' FIRE PROTECTION FP1 INV IN = 1005.77 (6" PVC) INV OUT = 1005.77 (6" PVC) N: 992339.610; E: 2831984.995		
FP1L	FIRE HYDRANT 22+36.23, 0.00' FIRE PROTECTION FP1 INV IN = 1004.83 (6" PVC) INV OUT = 1004.83 (6" PVC) N: 992601.882; E: 2831996.927		
FP1M	45' BEND WITH THRUST BLOCKS 22+63.37, 0.00' FIRE PROTECTION FP1 INV IN = 1004.73 (6" PVC) INV OUT = 1004.73 (6" PVC) N: 992628.993; E: 2831998.160		
FP1O	45' BEND WITH THRUST BLOCKS 22+83.37, 0.00' FIRE PROTECTION FP1 INV IN = 1004.66 (6" PVC) INV OUT = 1004.66 (6" PVC) N: 992642.478; E: 2832012.930		

LEGEND

COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED FIRE LINE PIPE PRIOR TO INSTALLATION OF THE FIRE LINE PIPE.

SCALE IN FEET

0' 5' 10' 20'

DWG: F:\2020\0001-0500\0200-0103\40-Design\AutoCAD\Final Plans\Sheets\GNVC\CONSTRUCTION DOCUMENTS\C_UTL02_0200103.dwg
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LEE'S SUMMIT R-7 SCHOOL DISTRICT

100 SE BAILEY ROAD
LEE'S SUMMIT, MO 64881

PACKAGE 2 -
STRUCTURAL & SITE
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FIRE PROTECTION
PROFILES

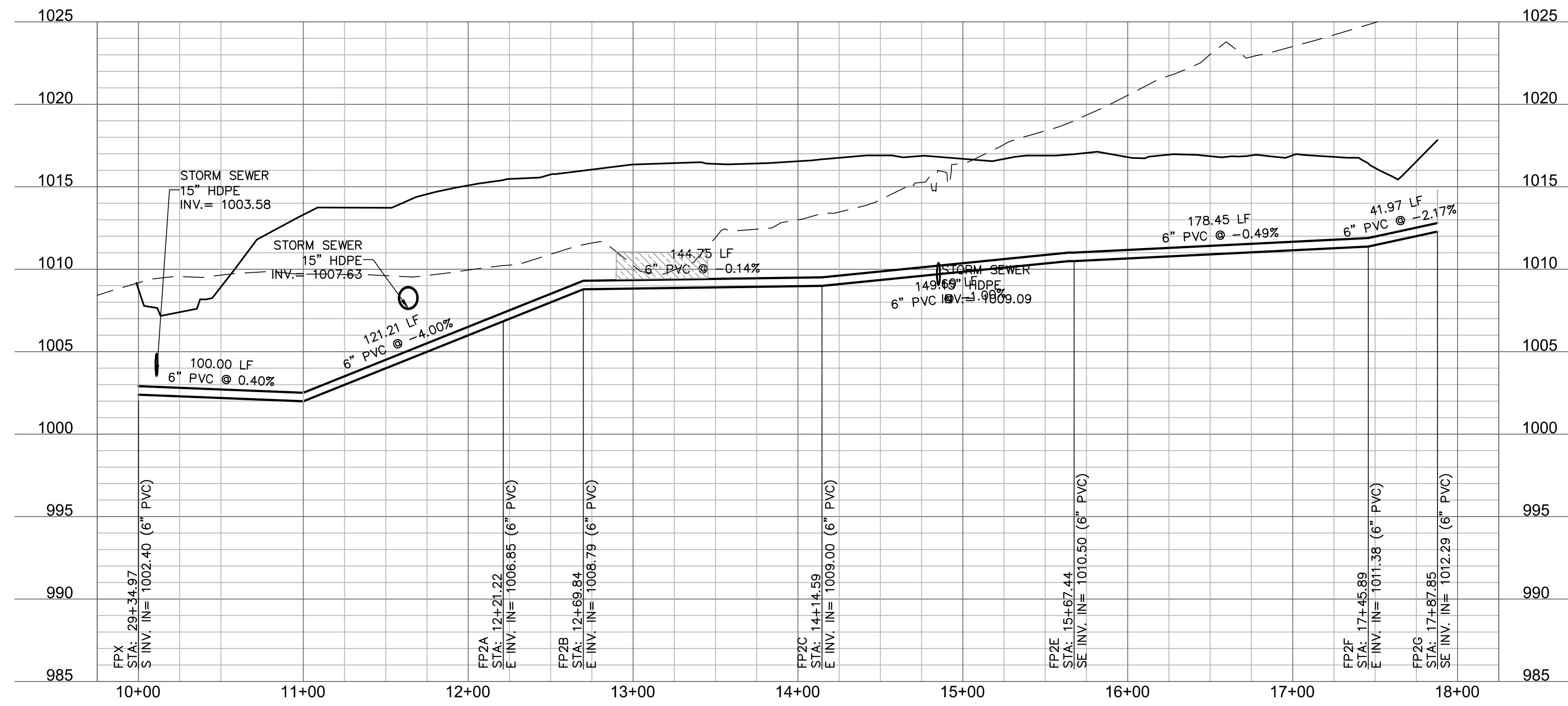
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Professional Engineer
TERRY L. PARSONS
NUMBER
PE-291601888
01/18/2020

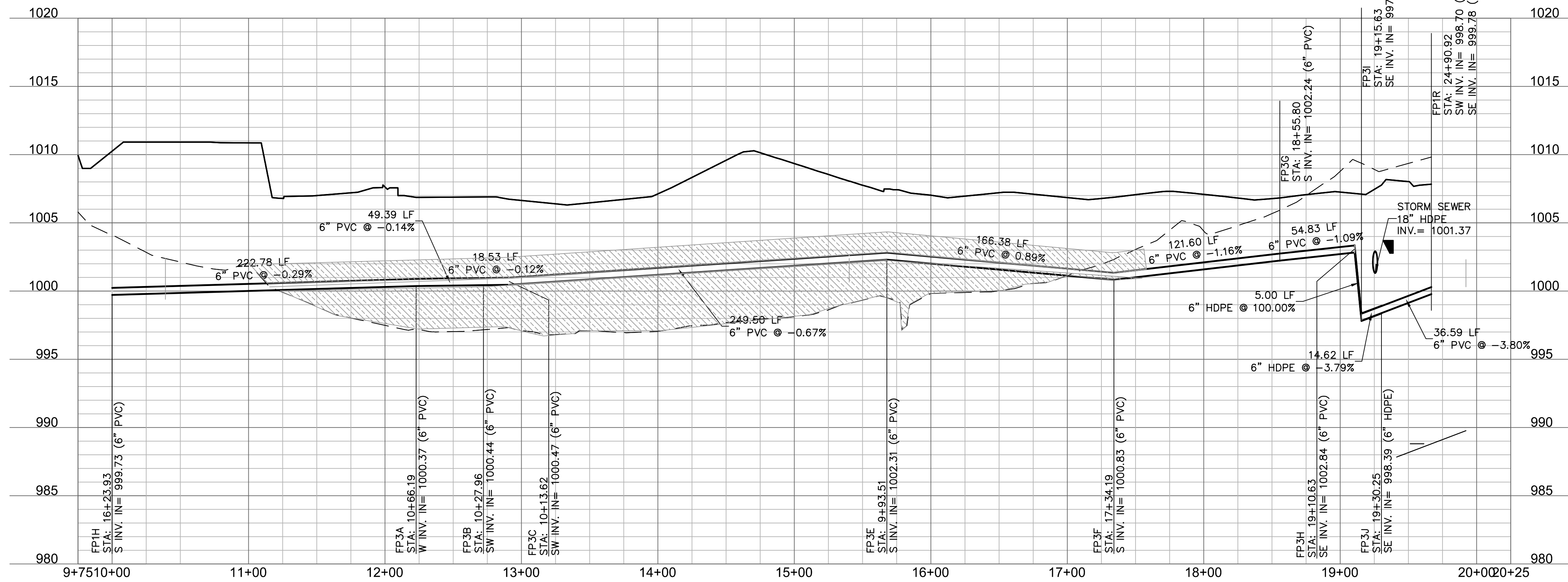
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OLSSON, CIVIL ENGINEERING
MO. CERTIFICATE OF AUTHORITY #001592
7301 West 133rd Street, Suite 200
Overland Park, KS 66214-7150
TEL: 913.381.1170
www.olsson.com

FIRE PROTECTION FP2 (9+75 - 18+25)



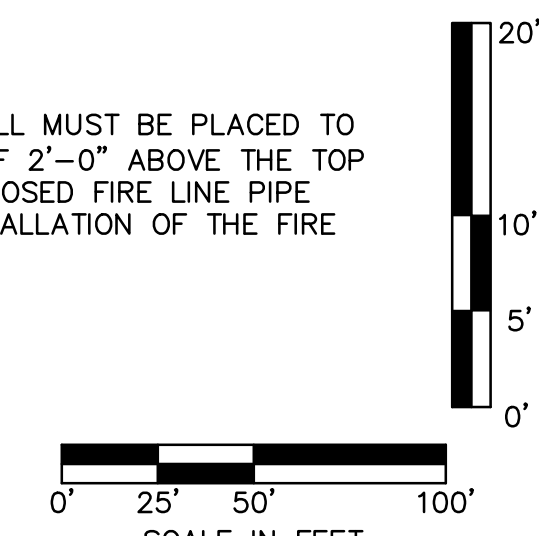
STRUCTURES	
ID	DESCRIPTION
FP2A	11' BEND WITH THRUST BLOCK 12+21.22, -0.01' LT FIRE PROTECTION FP2 INV IN = 1006.85 (6" PVC) INV OUT = 1006.85 (6" PVC) N: 993040.609; E: 2832234.502
FP2B	FIRE HYDRANT 12+69.84, -0.01' LT FIRE PROTECTION FP2 INV IN = 1008.79 (6" PVC) INV OUT = 1008.79 (6" PVC) N: 993043.355; E: 2832189.957
FP2C	45' ANGLE WITH THRUST BLOCK 14+14.59, 0.00' FIRE PROTECTION FP2 INV IN = 1009.00 (6" PVC) INV OUT = 1009.00 (6" PVC) N: 993051.538; E: 2832041.439
FP2D	FIRE HYDRANT 15+64.28, 0.00' FIRE PROTECTION FP2 INV IN = 1010.50 (6" PVC) INV OUT = 1010.50 (6" PVC) N: 993162.077; E: 2831940.502
FP2E	45' BEND WITH THRUST BLOCK 15+67.44, 0.00' FIRE PROTECTION FP2 INV IN = 1010.50 (6" PVC) INV OUT = 1010.50 (6" PVC) N: 993164.409; E: 2831936.373
FP2F	45' BEND WITH THRUST BLOCK 17+45.89, 0.00' FIRE PROTECTION FP2 INV IN = 1011.38 (6" PVC) INV OUT = 1011.38 (6" PVC) N: 993172.504; E: 2831766.106
FP2G	FIRE HYDRANT 17+87.85, 0.00' FIRE PROTECTION FP2 INV IN = 1012.28 (6" PVC) INV OUT = 1012.28 (6" PVC) N: 993200.200; E: 2831728.575
FPX	INSTALL 6"x6"x6" TEE BEGIN CONSTRUCTION FP2 29+34.97, 0.00' FIRE PROTECTION FP1 INV IN = 1002.40 (6" PVC) INV OUT = 1002.40 (6" PVC) N: 992991.265; E: 2832450.146

FIRE PROTECTION FP3 (9+75 - 20+25)



LEGEND

COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED FIRE LINE PIPE PRIOR TO INSTALLATION OF THE FIRE LINE PIPE.



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 MISSOURI CERTIFICATE OF AUTHORITY #001592
 7301 West 133rd Street, Suite 200
 Overland Park, KS 66214-7500
 TEL: 913.381.1170
 www.olsson.com

STATE OF MISSOURI
 TERRY M. PARSONS
 NUMBER
 PE-2916018808
 01/15/2020
 PROFESSIONAL ENGINEER

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64861

PACKAGE 2 -
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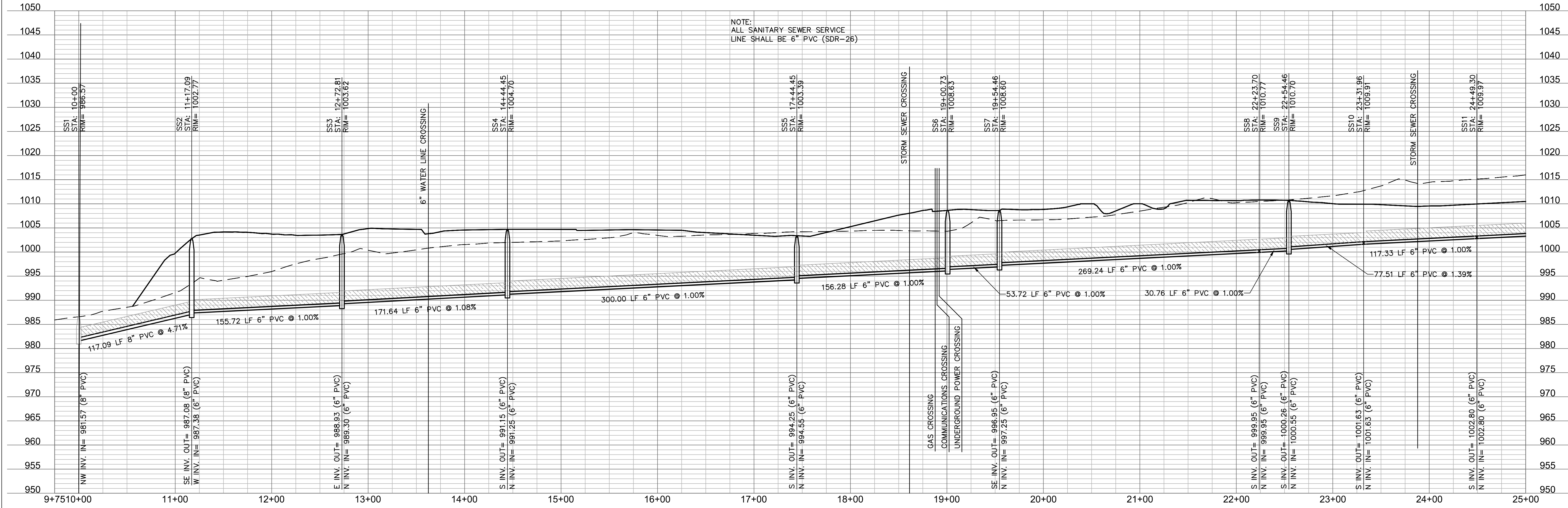
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 FIRE PROTECTION
 PROFILES

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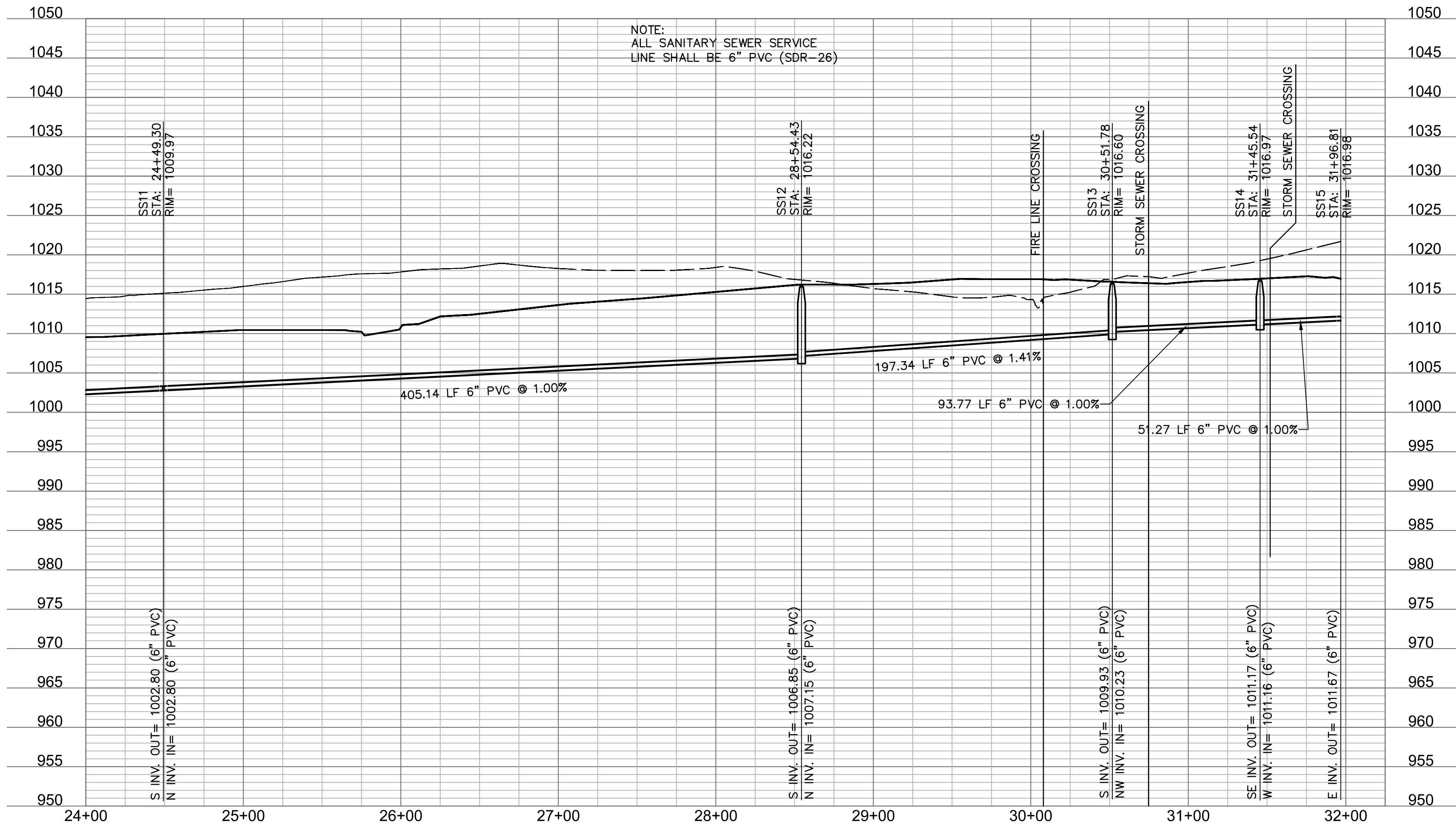
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 C_P_TBLK_0200103
 C_LS001_0200103

SS1 THRU SS15 (9+75 - 25+00)



STRUCTURES	
ID	DESCRIPTION
SS1	48" MH 10+00, 0.00' SSI THRU SS15 INV IN = 981.57 (6" PVC) N: 991270.630; E: 2831964.013
SS2	48" MH 11+17.09, 0.00' SSI THRU SS15 INV IN = 987.38 (6" PVC) INV OUT = 987.08 (6" PVC) N: 991370.234; E: 2831902.456
SS3	INSTALL STD. 4' DIA. MH 12+72.81, 0.00' SSI THRU SS15 INV IN = 989.30 (6" PVC) INV OUT = 988.93 (6" PVC) N: 991422.683; E: 2831955.835
SS4	INSTALL STD. 4' DIA. MH 14+44.45, 0.00' SSI THRU SS15 INV IN = 991.25 (6" PVC) INV OUT = 991.15 (6" PVC) N: 991593.052; E: 2831776.674
SS5	INSTALL STD. 4' DIA. MH 17+44.45, 0.00' SSI THRU SS15 INV IN = 994.55 (6" PVC) INV OUT = 994.25 (6" PVC) N: 991876.367; E: 2831875.328
SS6	INSTALL STD. 4' DIA. MH 19+00.73, 0.00' SSI THRU SS15 INV IN = 996.41 (6" PVC) INV OUT = 996.11 (6" PVC) N: 992023.960; E: 2831926.721
SS7	INSTALL STD. 4' DIA. MH 19+54.46, 0.00' SSI THRU SS15 INV IN = 997.25 (6" PVC) INV OUT = 996.95 (6" PVC) N: 992046.139; E: 2831877.791
SS8	INSTALL 6"x6"x4" WYE 22+23.70, 0.00' SSI THRU SS15 INV IN = 999.95 (6" PVC) INV OUT = 999.95 (6" PVC) N: 992301.317; E: 2831963.668
SS9	INSTALL STD. 4' DIA. MH 22+54.46, 0.00' SSI THRU SS15 INV IN = 1000.55 (6" PVC) INV OUT = 1000.26 (6" PVC) N: 992330.470; E: 2831973.479
SS10	INSTALL 6"x6"x4" WYE 23+31.96, 0.00' SSI THRU SS15 INV IN = 1001.63 (6" PVC) INV OUT = 1001.63 (6" PVC) N: 992407.809; E: 2831978.572
SS11	INSTALL 6"x6"x4" WYE 24+49.30, 0.00' SSI THRU SS15 INV IN = 1002.80 (6" PVC) INV OUT = 1002.80 (6" PVC) N: 992524.888; E: 2831986.282

SS1 THRU SS15 (24+00 - 32+25)



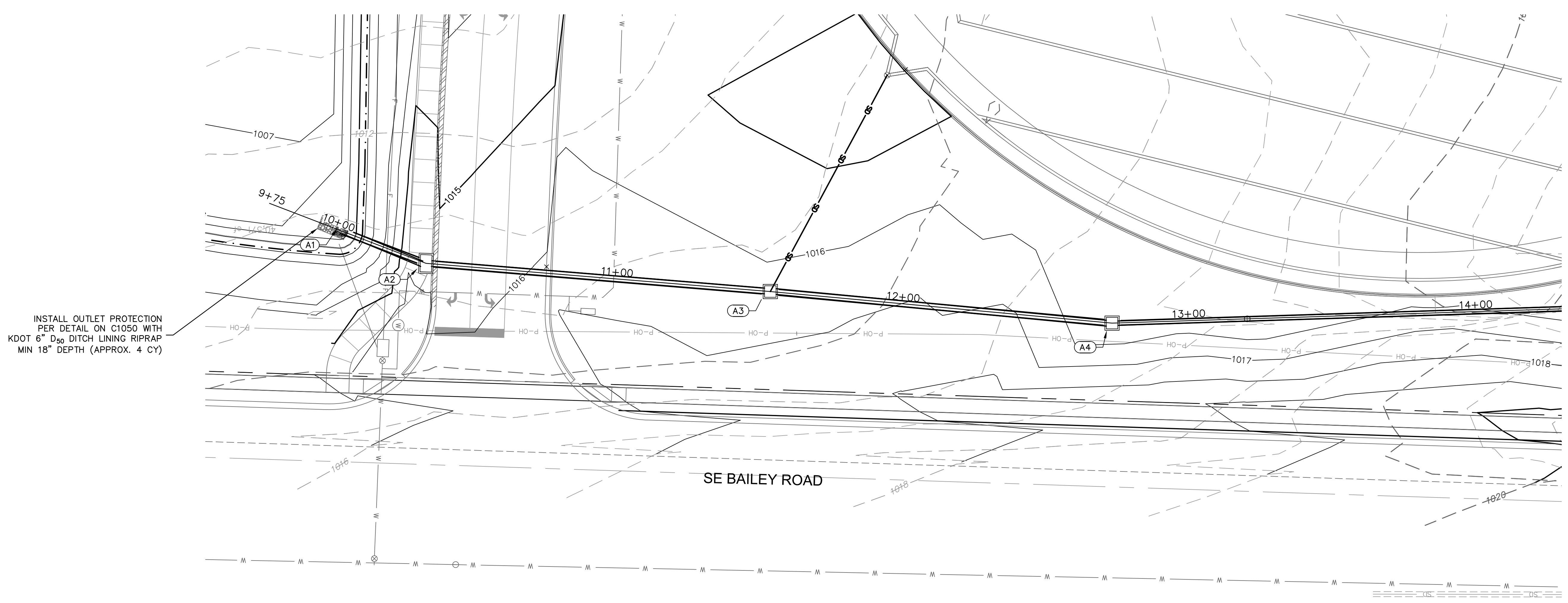
STRUCTURES	
ID	DESCRIPTION
SS11	INSTALL 6"x6"x4" WYE 24+49.30, 0.00' SSI THRU SS15 INV IN = 1002.80 (6" PVC) INV OUT = 1002.80 (6" PVC) N: 992524.888; E: 2831986.282
SS12	INSTALL STD. 4' DIA. MH 28+54.45, 0.00' SSI THRU SS15 INV IN = 1007.15 (6" PVC) INV OUT = 1006.85 (6" PVC) N: 992929.567; E: 2832005.539
SS13	INSTALL ONE-WAY CLEANOUT 30+51.78, 0.00' SSI THRU SS15 INV IN = 1010.23 (6" PVC) INV OUT = 1009.93 (6" PVC) N: 993126.744; E: 2832013.612
SS14	INSTALL ONE-WAY CLEANOUT 31+45.54, 0.00' SSI THRU SS15 INV IN = 1011.16 (6" PVC) INV OUT = 1011.17 (6" PVC) N: 993184.231; E: 2831939.531
SS15	CONNECT SERVICE LINE TO BLDG. WITH CLEANOUT APPROX 10' FROM BLDG FIELD VERIFY ELEVATION RE: MEP 31+96.81, 0.00' SSI THRU SS15 INV IN = 1011.67 (6" PVC) INV OUT = 1011.67 (6" PVC) N: 993186.328; E: 2831888.304

NOTES:

- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.

LEGEND

- COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED SEWER PIPE PRIOR TO INSTALLATION OF THE SEWER PIPE.

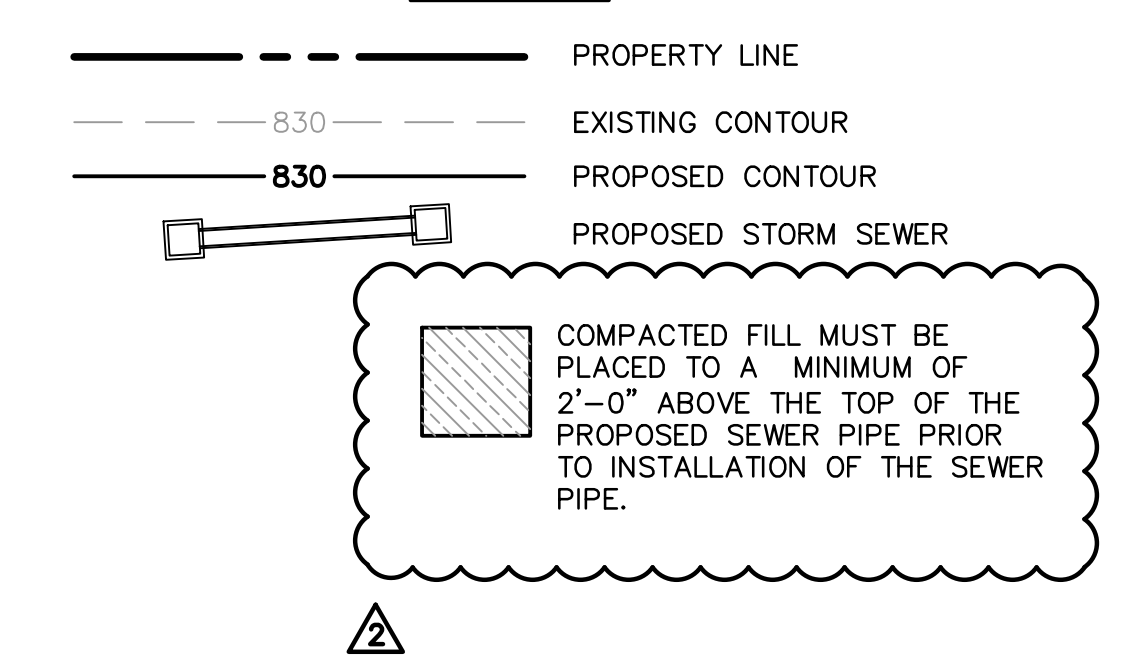


INSTALL OUTLET PROTECTION PER DETAIL ON C1050 WITH KDOT 6" D₅₀ DITCH LINING RIPRAP MIN 18" DEPTH (APPROX. 4 CY)

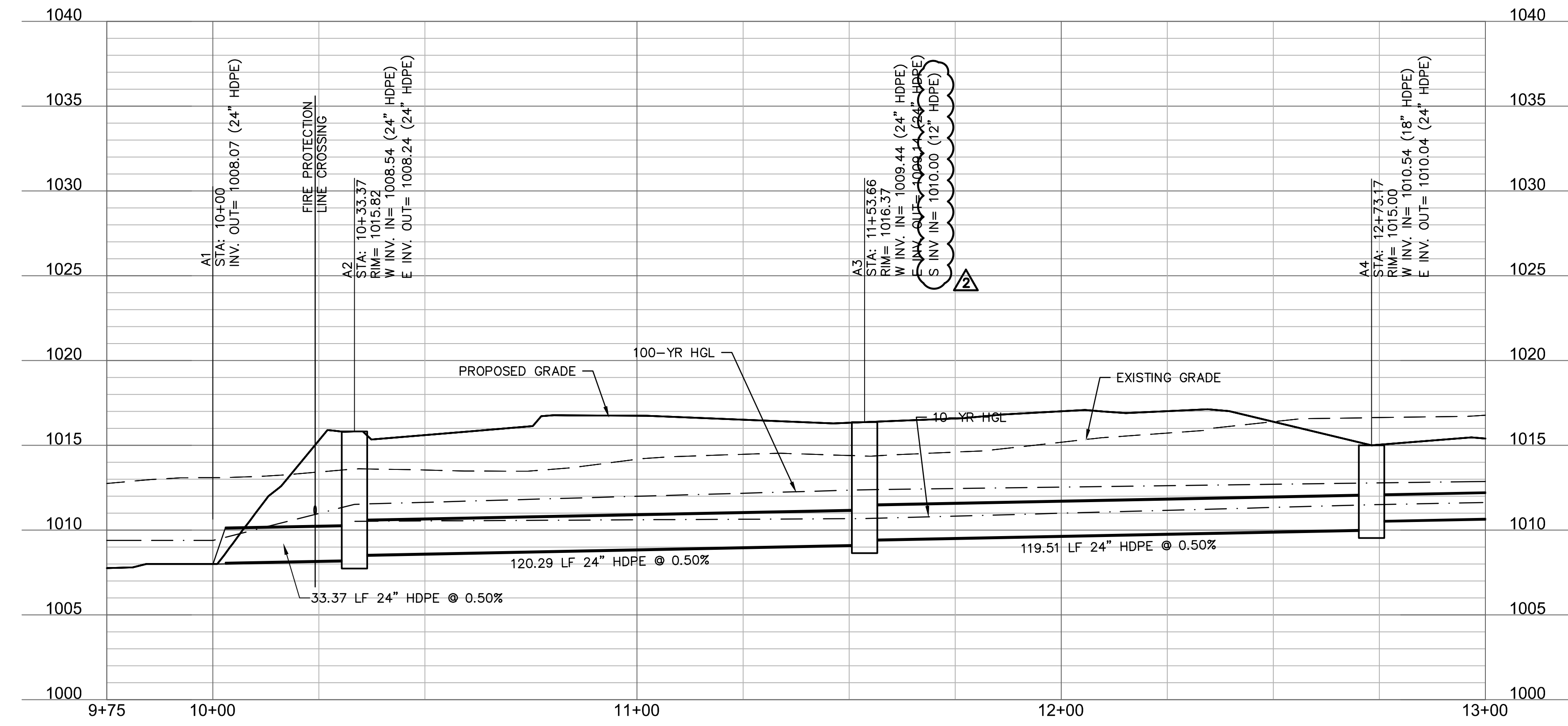
NOTES:

- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
- CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

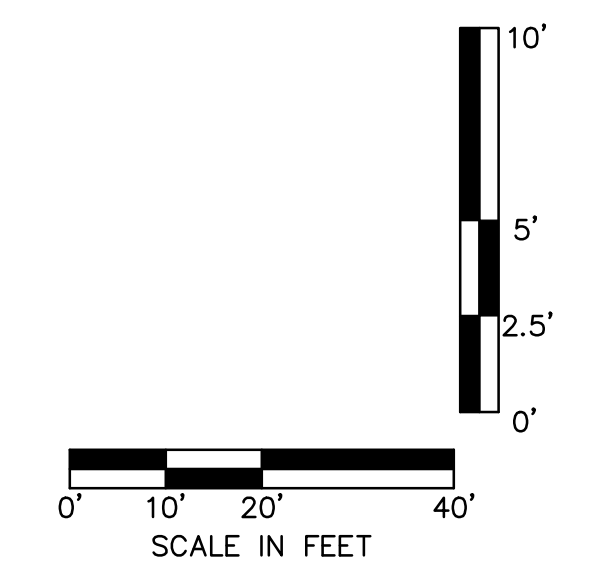
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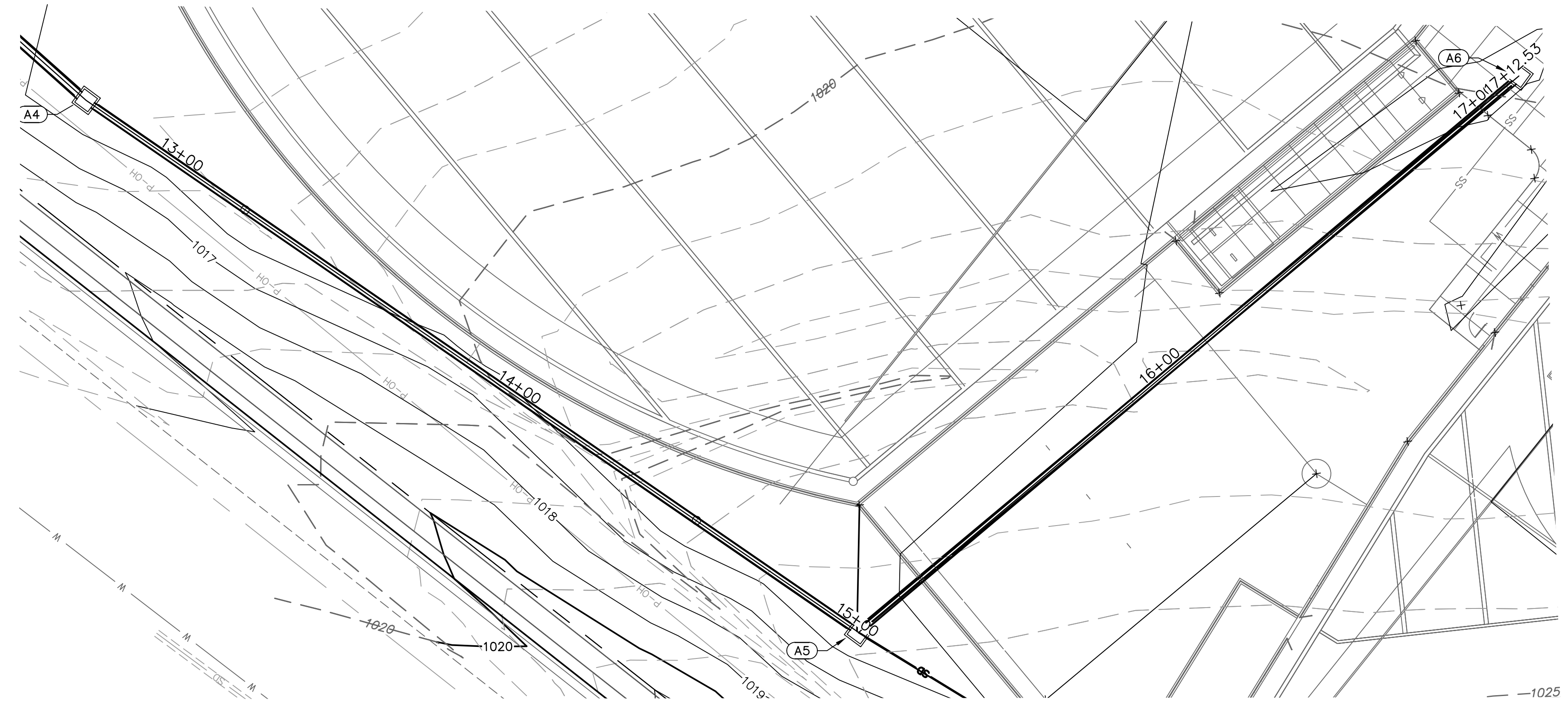
LINE A (3) (9+75 - 13+00)



STRUCTURES	
ID	DESCRIPTION
A1	INSTALL 24" DIA. END SECTION WITH CONCRETE TOWALL 10+00, 0.00' LINE A (3) RIM= 1016.64 INV IN = 1008.07 (24" HDPE) N: 993454.990; E: 2832558.361
A2	INSTALL 6'X4' NON-SETBACK CURB INLET 10+33.37, 0.00' LINE A (3) RIM= 1015.82 INV IN = 1008.54 (24" HDPE) INV OUT = 1008.24 (24" HDPE) N: 993466.944; E: 2832527.206
A3	INSTALL 4'X4' JUNCTION BOX 11+53.66, 0.00' LINE A (3) RIM= 1016.37 INV IN = 1009.44 (24" HDPE) INV OUT = 1009.14 (24" HDPE) N: 993476.766; E: 2832407.320
A4	INSTALL 4'X4' JUNCTION BOX 12+73.17, 0.00' LINE A (3) RIM= 1015.00 INV IN = 1010.54 (18" HDPE) INV OUT = 1010.04 (24" HDPE) N: 993487.779; E: 2832288.317

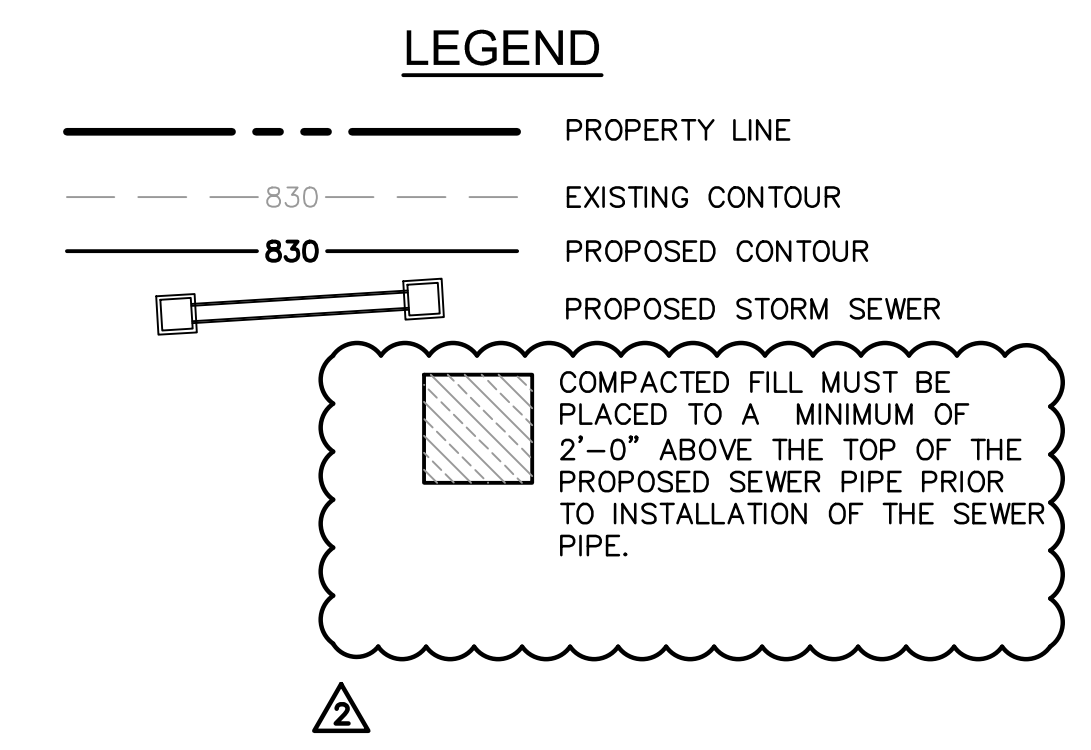


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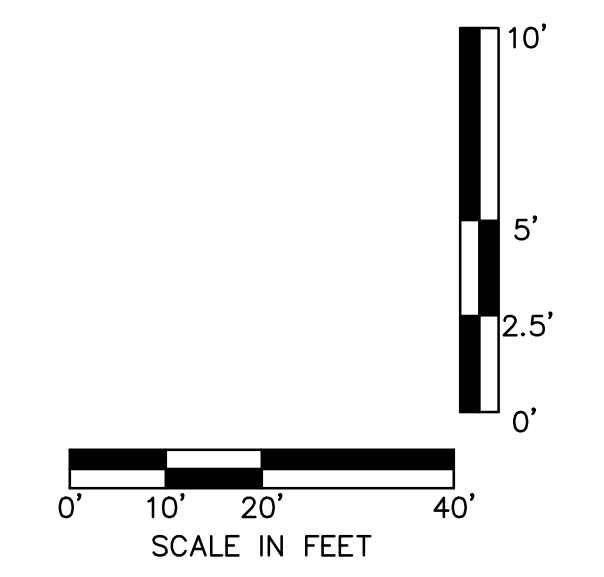
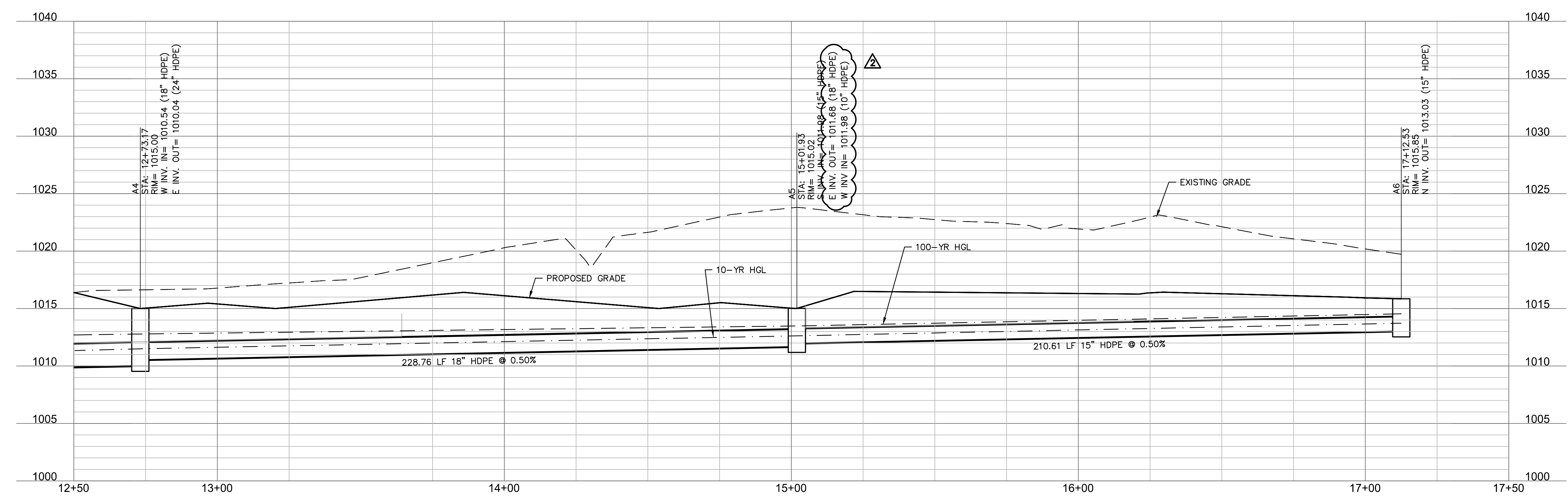


STRUCTURES	
ID	DESCRIPTION
A4	INSTALL 4'x4' JUNCTION BOX 12+73.17, 0.00' LINE A (3) RIM= 1015.00 INV IN = 1010.54 (18" HDPE) INV OUT = 1010.04 (24" HDPE) N: 993487.779; E: 2832288.317
A5	INSTALL 4'x4' JUNCTION BOX 15+01.93, 0.00' LINE A (3) RIM= 1015.02 INV IN = 1011.98 (15" HDPE) INV OUT = 1011.68 (18" HDPE) N: 993480.510; E: 2832059.675
A6	INSTALL 2' DIA. NYLOPLAST BASIN WITH PEDESTRIAN GRATE LID 17+12.53, 0.00' LINE A (3) RIM= 1015.85 INV OUT = 1013.03 (15" HDPE) N: 993275.744; E: 2832010.413

- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)



LINE A (3) (12+50 - 17+50)



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 www.olsson.com

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 TERRY L. PARSONS
 NUMBER
 PE-291801888
 01/15/2022
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 1001 SE BAILEY ROAD
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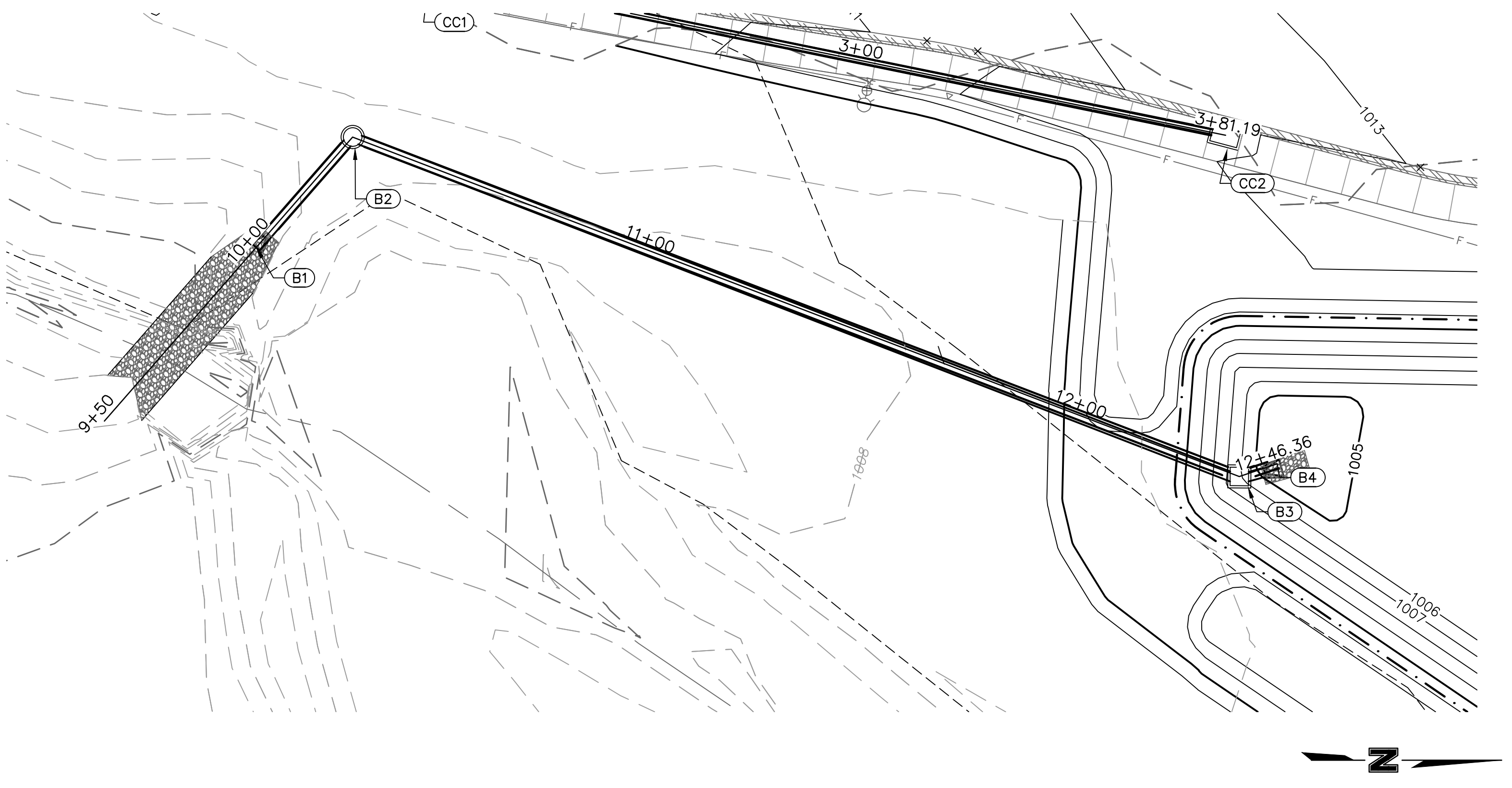
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13-20102-00

STORM SEWER
 PLAN & PROFILE -
 LINE A

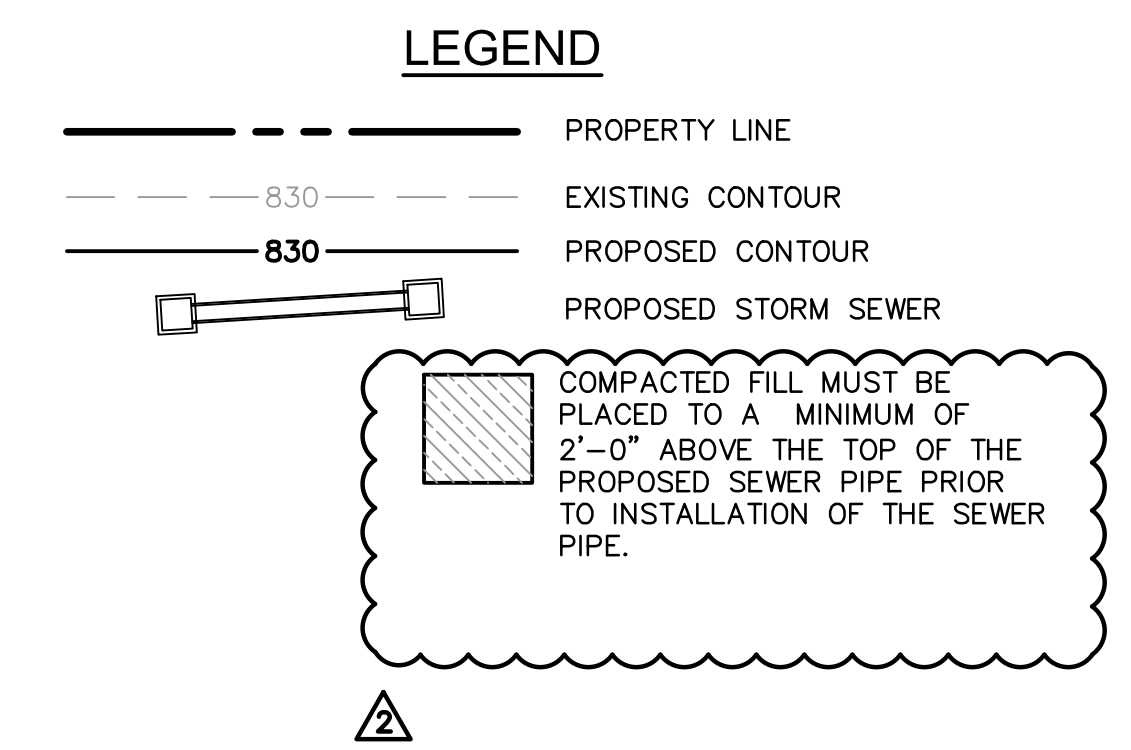
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 USER: tparsons T_PBASE_0200103 C_PSTRM_0200103



STRUCTURES	
ID	DESCRIPTION
B1	INSTALL 24" END SECTION WITH CONCRETE TOEWALL 10+00, 0.00' LINE B RIM = 1005.11 INV IN = 1002.53 (24" HDPE) N: 993084.159; E: 2832531.362
B2	INSTALL STD. 4' DIA. MH 27+01.48, 896.81' RT LINE B RIM = 1007.00 INV IN = 1003.00 (24" HDPE) INV OUT = 1002.70 (24" HDPE) N: 993105.057; E: 2832507.447
B3	INSTALL CONTROL STRUCTURE PER C1057 12+37.67, 0.00' LINE B RIM = 1012.20 INV IN = 1004.40 (24" HDPE) INV OUT = 1004.05 (24" HDPE) N: 993297.366; E: 2832581.043
B4	INSTALL 24" END SECTION WITH CONCRETE TOEWALL 12+46.36, 0.00' LINE B RIM = 1007.00 INV OUT = 1004.44 (24" HDPE) N: 993305.603; E: 2832578.267

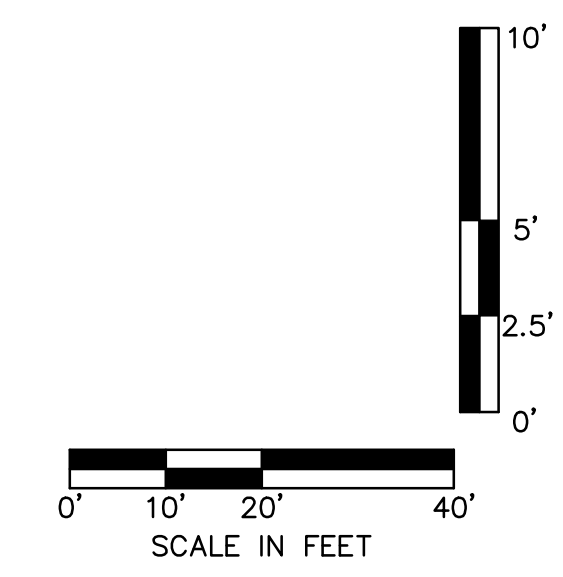
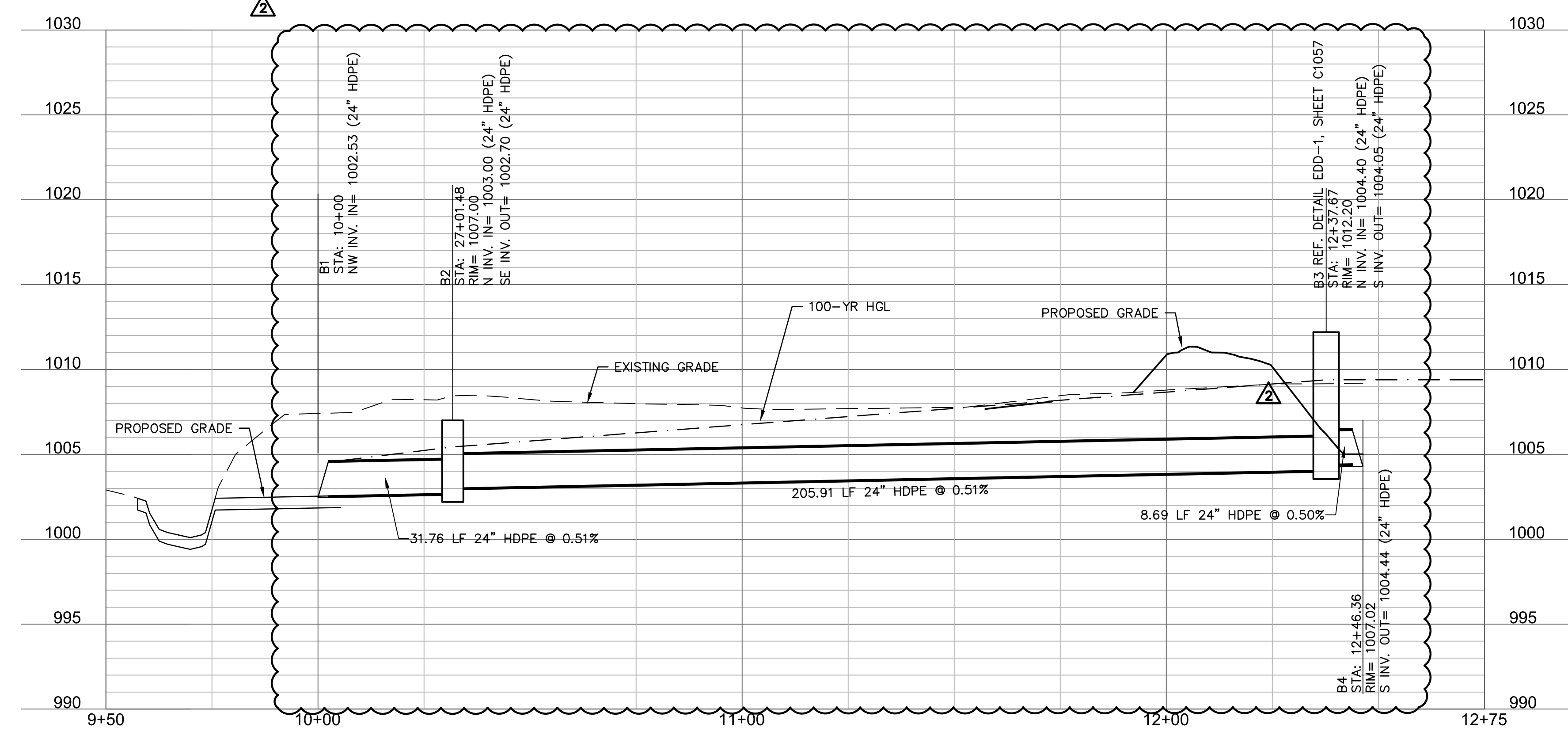
- NOTES:**
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 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)



HEC-14 RIPRAP APRON SIZING FOR OUTFALL B-1

	D50	Q	D	TW	TW/D	APRON LENGTH	APRON DEPTH	Width at
	(in)	ft ³ /s	ft	ft	0.4 Min 1.0 Max	Scale from Table 10.1	Scale x D (ft)	Scale from Table 10.1
Required	2.2	9.9	2	0.91	0.455	4	8	3.3
Design	6					24	24	12

LINE B (9+50 - 12+75)



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 01/15/2022
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 Overland Park, KS 66213-4750
 TEL: 913.381.1170
 www.olsson.com

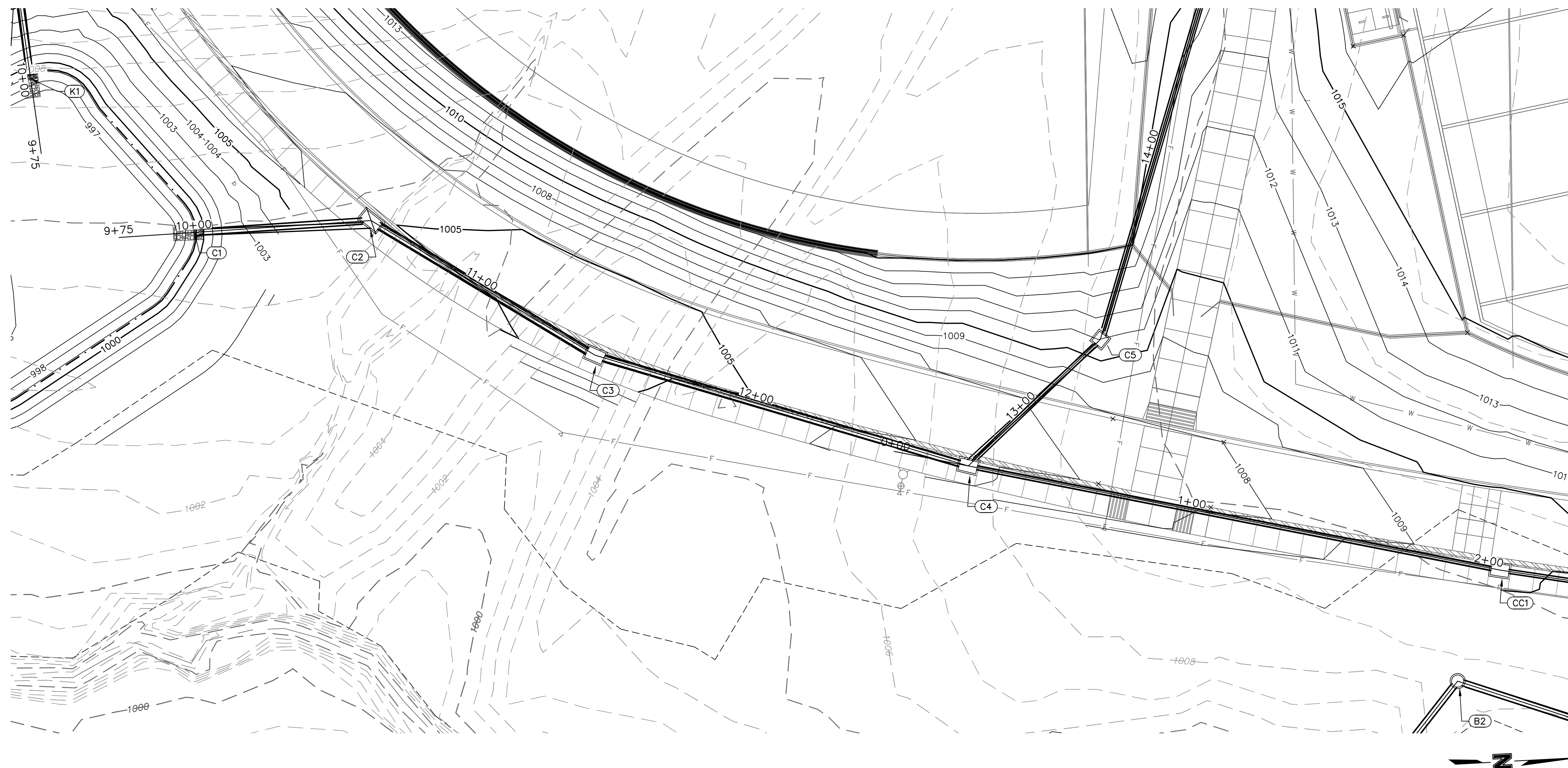
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13-20102-00
 STORM SEWER
 PLAN & PROFILE -
 LINE B

C1030A



STRUCTURES	
ID	DESCRIPTION
C1	INSTALL 24" DIA. END SECTION WITH TOWALL 10+00, 0.00' RT LINE C RIM = 1002.68 INV IN = 999.50 (24" HDPE) N: 992625.797; E: 2832336.866
C2	INSTALL 7'X4' NON-SETBACK CURB INLET 10+58.53, 0.00' LINE C RIM = 1005.57 INV IN = 1000.09 (24" HDPE) INV OUT = 999.79 (24" HDPE) N: 992754.318; E: 2832336.087
C3	INSTALL 6'X4' NON-SETBACK CURB INLET 11+45.03, 0.00' LINE C RIM = 1004.60 INV IN = 1000.82 (24" HDPE) INV OUT = 1000.52 (24" HDPE) N: 992825.971; E: 2832384.550
C4	INSTALL 6'X4' NON-SETBACK CURB INLET 12+73.74, 0.00' LINE C RIM = 1006.82 INV IN = 1002.86 (15" HDPE) INV OUT = 1002.86 (15" HDPE) N: 992947.233; E: 2832427.690

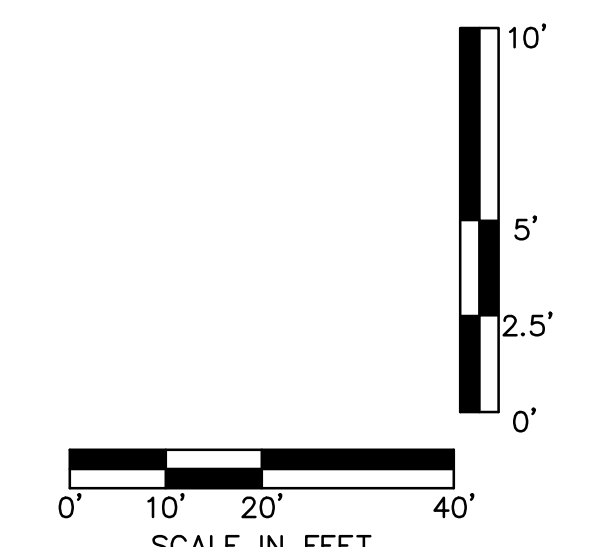
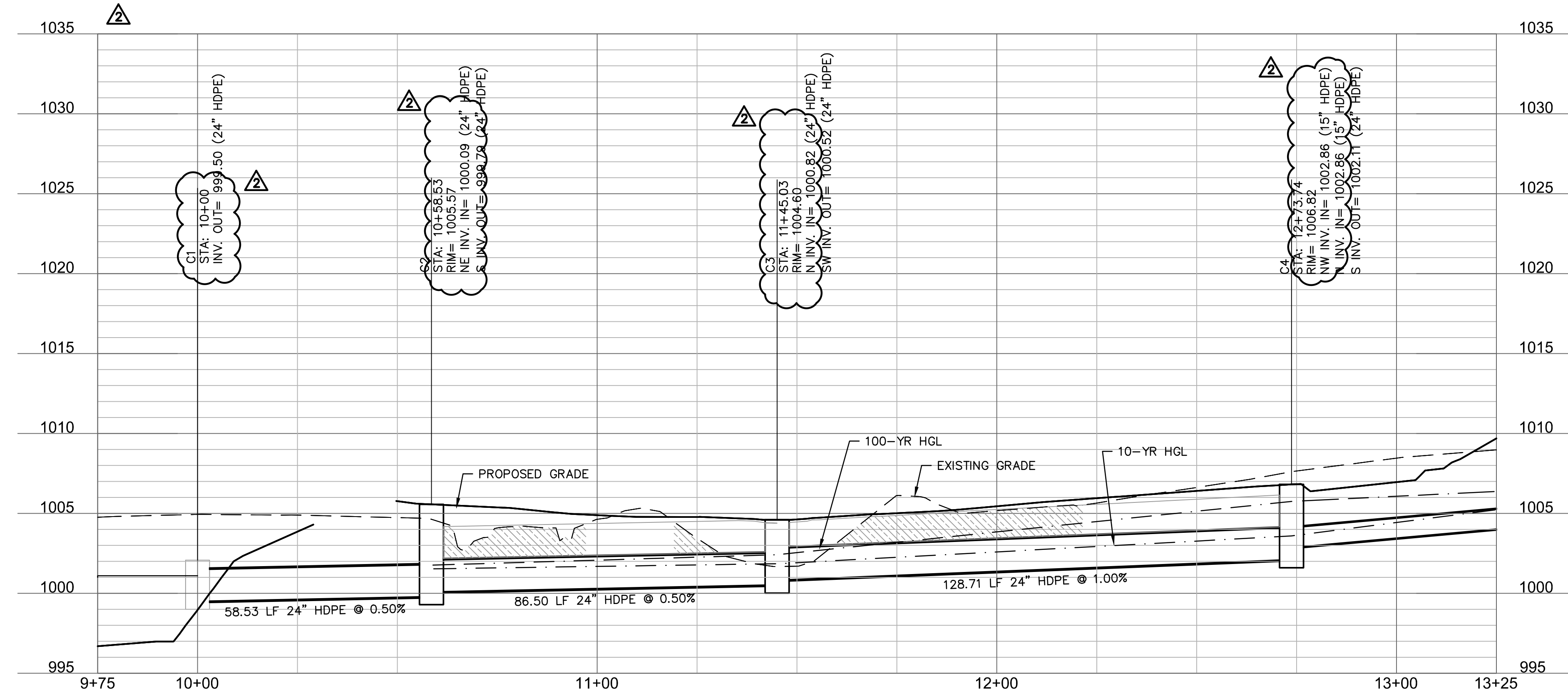
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

LEGEND

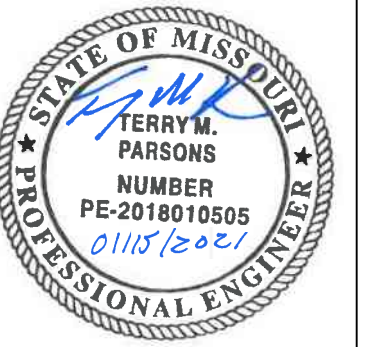
- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED STORM SEWER

COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED SEWER PIPE PRIOR TO INSTALLATION OF THE SEWER PIPE.

LINE C (9+75 - 13+25)



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 USER: bkimmich
 T_PBASE_0200103
 C_PSURF_0200103
 C_PSTRM_0200103



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 Overland Park, KS 66214-7750
 TEL: 913.381.1170
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 PLAN & PROFILE -
 LINE C
C1031

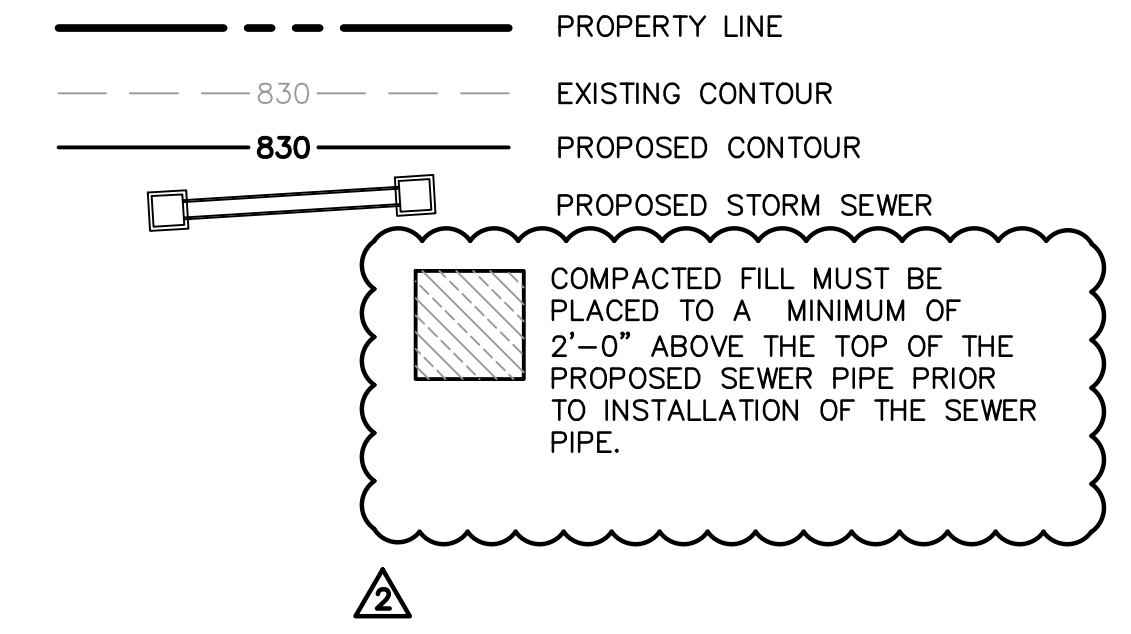


STRUCTURES	
ID	DESCRIPTION
C4	INSTALL 6'X4' NON-SETBACK CURB INLET 12+73.74, 0.00' LINE C RIM= 1006.82 INV IN = 1002.86 (15" HDPE) INV IN = 1002.86 (15" HDPE) INV OUT = 1002.11 (24" HDPE) N: 992947.233; E: 2832427.690
C5	INSTALL 4'X4' JUNCTION BOX 13+34.19, 0.00' LINE C RIM= 1010.96 INV IN = 1004.52 (15" HDPE) INV OUT = 1004.22 (15" HDPE) N: 992993.091; E: 2832388.295
C6	INSTALL 2' DIA. NYLOPLAST BASIN WITH PEDESTRIAN GRATE LID 10+31.76, -301.30' LT LINE B RIM= 1015.44 INV IN = 1010.49 (15" HDPE) INV OUT = 1010.19 (15" HDPE) N: 993056.407; E: 2832210.098
C7	INSTALL 2' DIA. NYLOPLAST BASIN WITH PEDESTRIAN GRATE LID 16+42.22, 0.00' LINE C RIM= 1016.91 INV OUT = 1011.68 (15" HDPE) N: 993061.744; E: 2832091.305

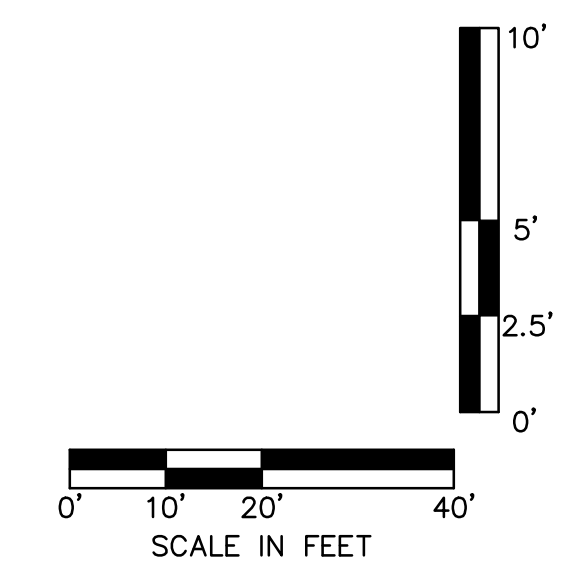
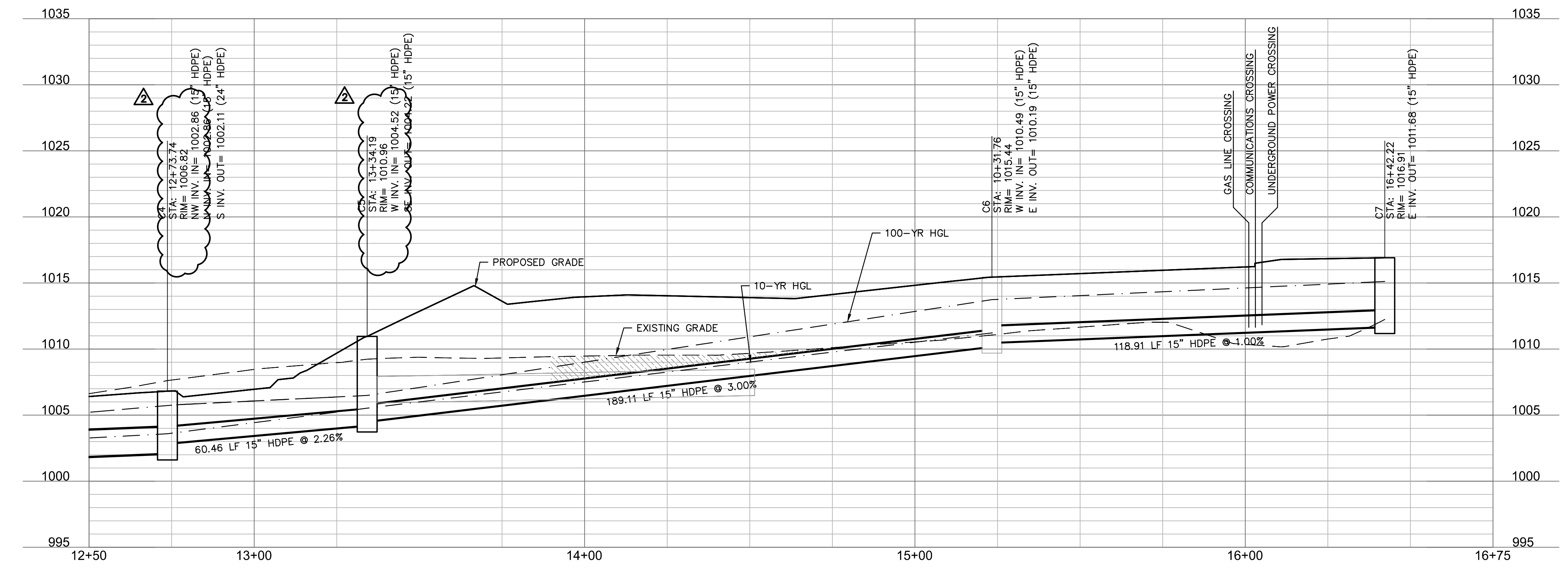
NOTES:

- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
- CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

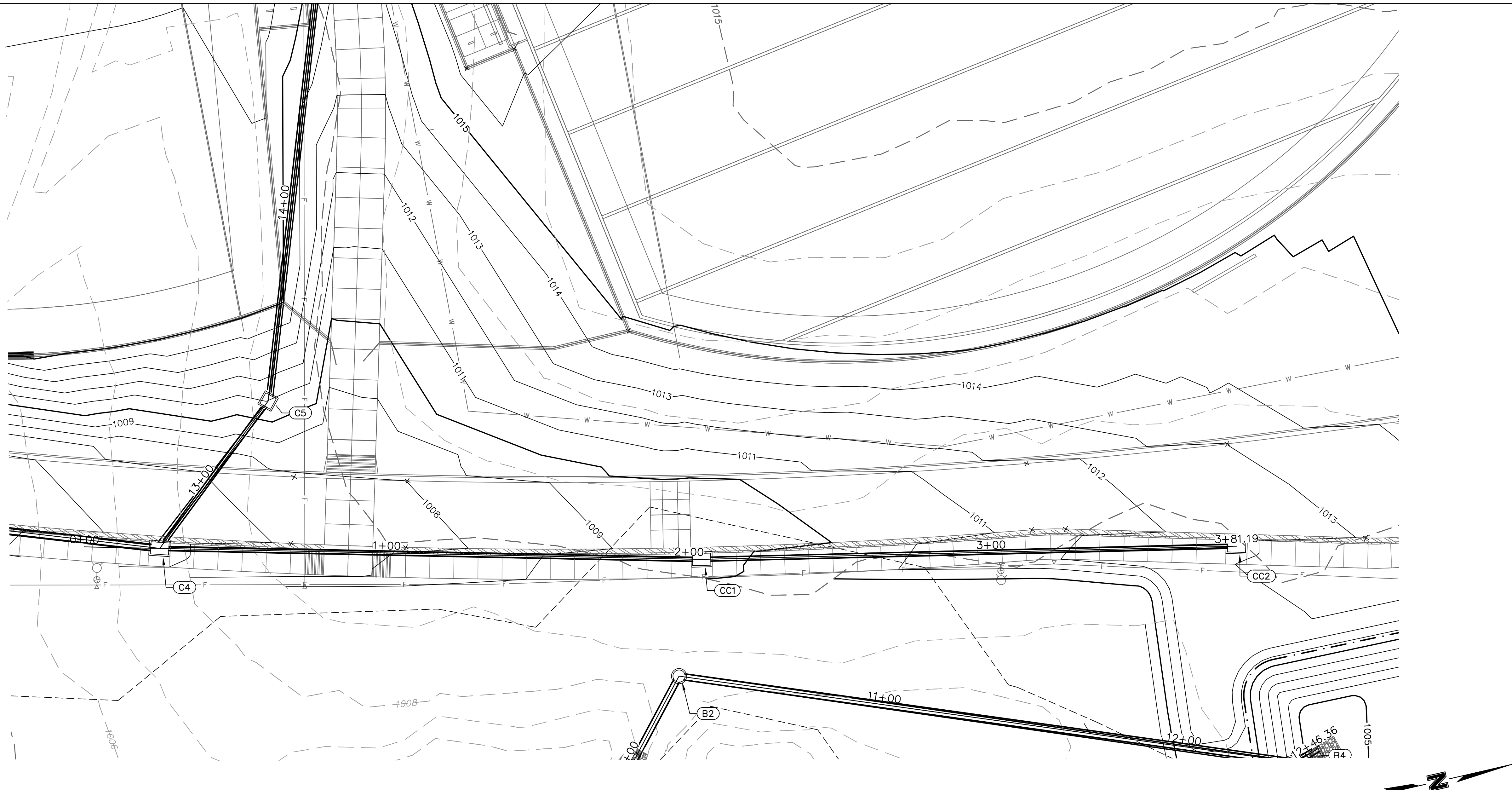
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LINE C (12+50 - 16+75)



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 USER: bkimmich T_PBASE_0200103



STRUCTURES	
ID	DESCRIPTION
C4	INSTALL 6'X4' NON-SETBACK CURB INLET 12+73.74, 0.00' LINE C RIM= 1006.82 INV IN = 1002.86 (15" HDPE) INV OUT = 1002.86 (15" HDPE) N: 992947.233; E: 2832427.690
CC1	INSTALL 6'X4' NON-SETBACK CURB INLET 2+04.24, 0.00' LINE CC RIM= 1009.74 INV IN = 1005.85 (15" HDPE) INV OUT = 1005.55 (15" HDPE) N: 993121.028; E: 2832471.516
CC2	INSTALL 6'X4' NON-SETBACK CURB INLET 3+81.19, 0.00' LINE CC RIM= 1012.89 INV OUT = 1007.62 (15" HDPE) N: 993294.379; E: 2832507.027

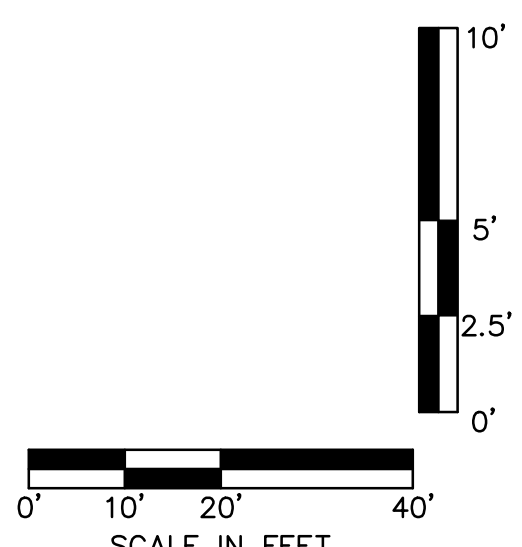
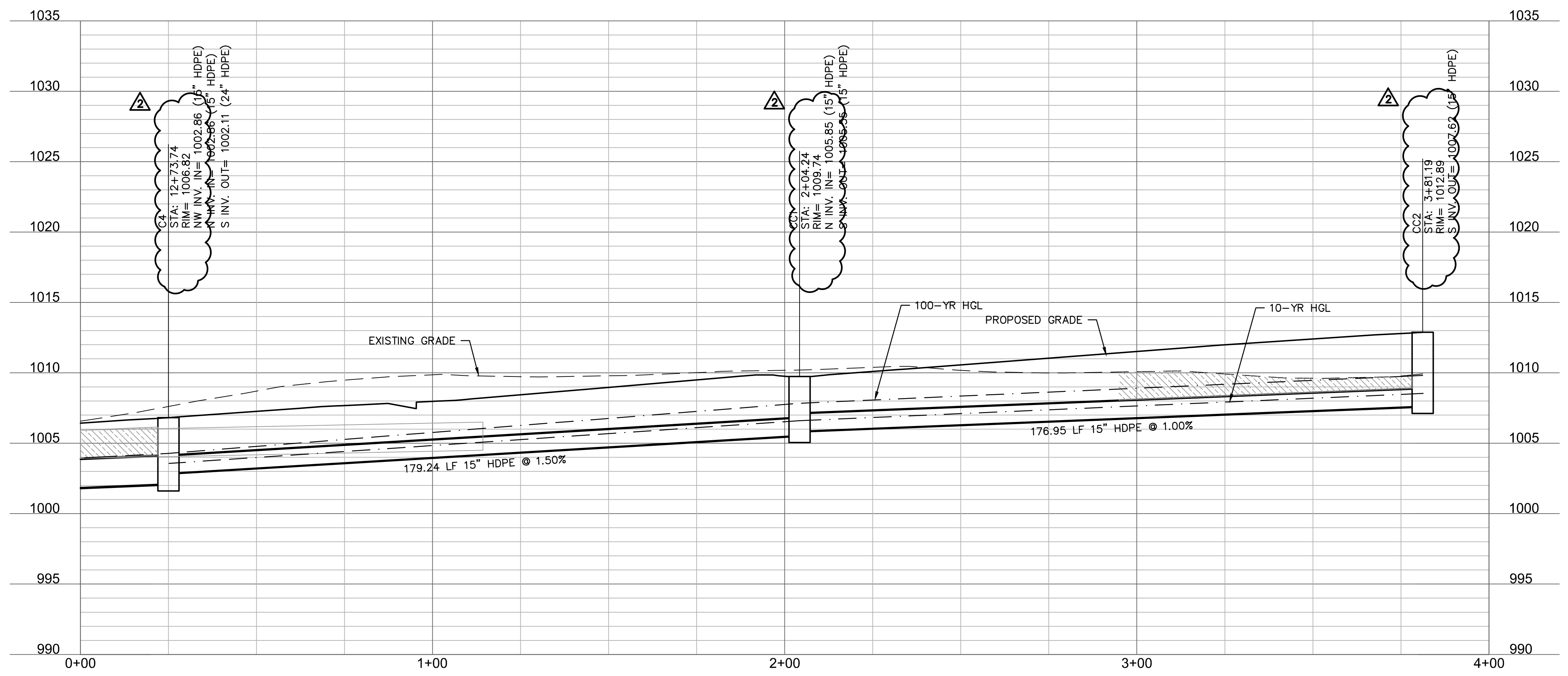
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

LEGEND

- PROPERTY LINE
- - - 830 EXISTING CONTOUR
- - - 830 PROPOSED CONTOUR
- ▭ PROPOSED STORM SEWER

COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED SEWER PIPE PRIOR TO INSTALLATION OF THE SEWER PIPE.

LINE CC (0+00 - 4+00)



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 MISSOURI PROFESSIONAL ENGINEER #001592
 7301 West 133rd Street, Suite 200
 Overland Park, KS 66211-7750
 TEL: 913.381.1170 www.olsson.com

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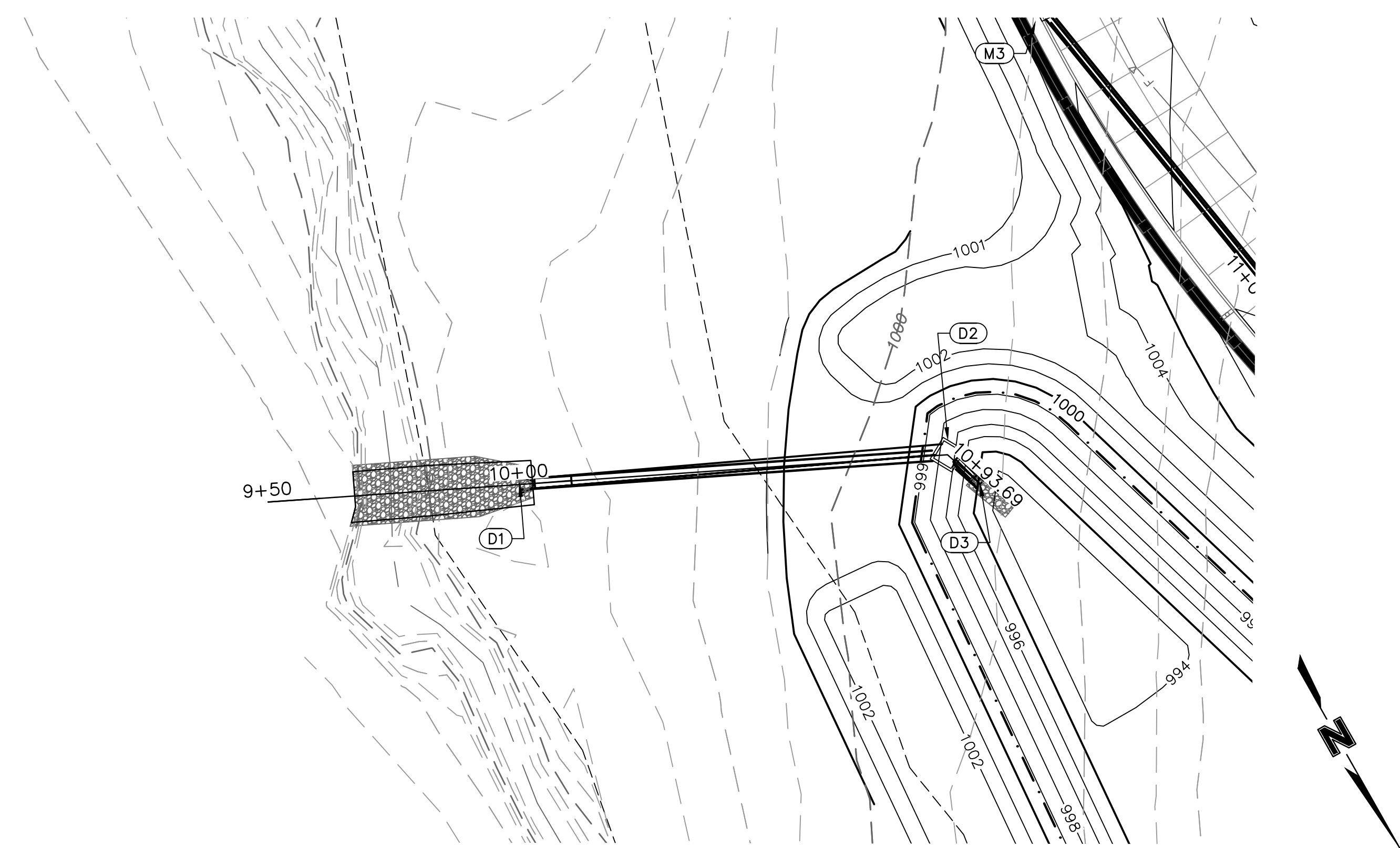
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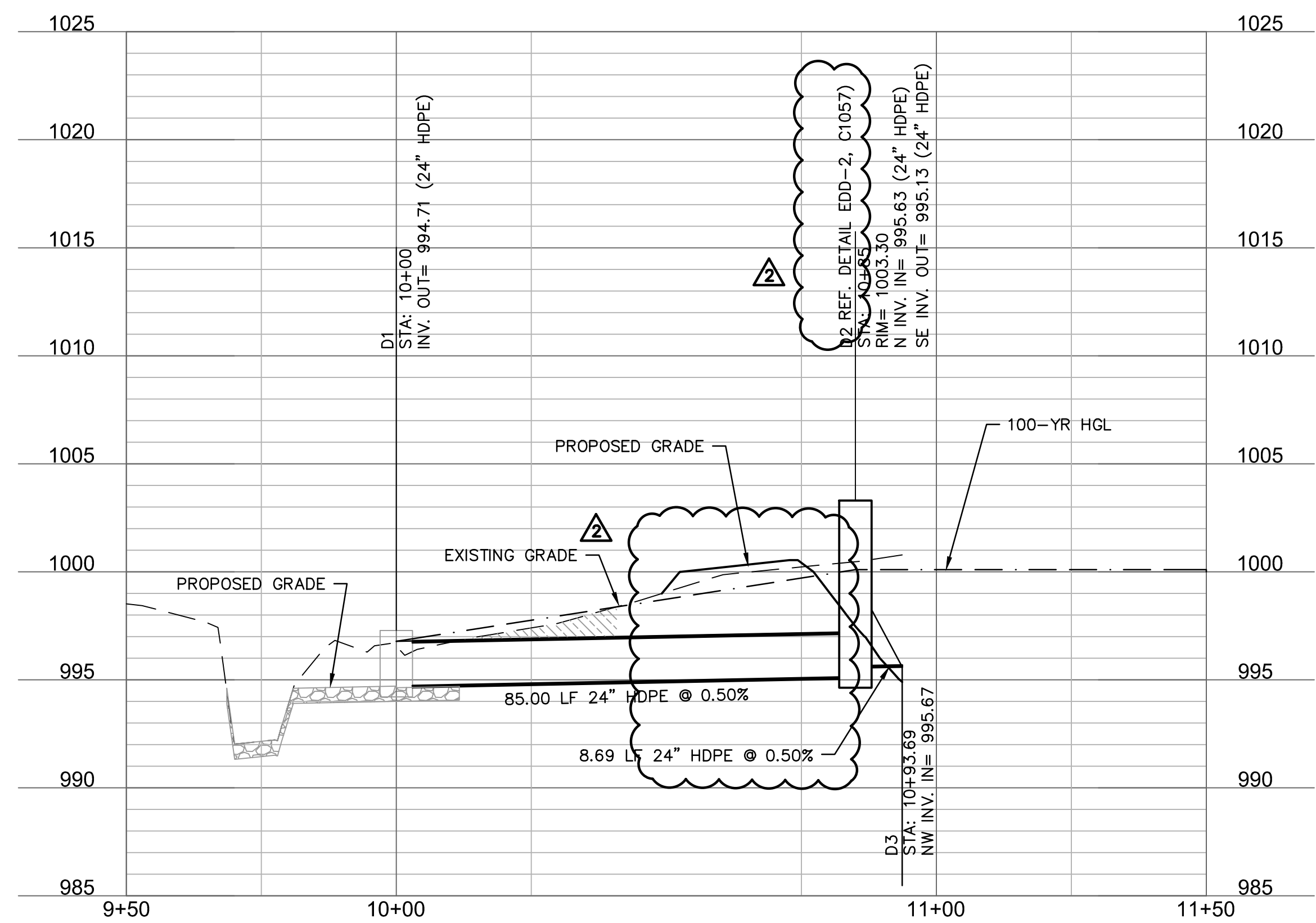
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STORM SEWER
 PLAN & PROFILE -
 LINE CC

C1033



LINE D (9+50 - 11+50)



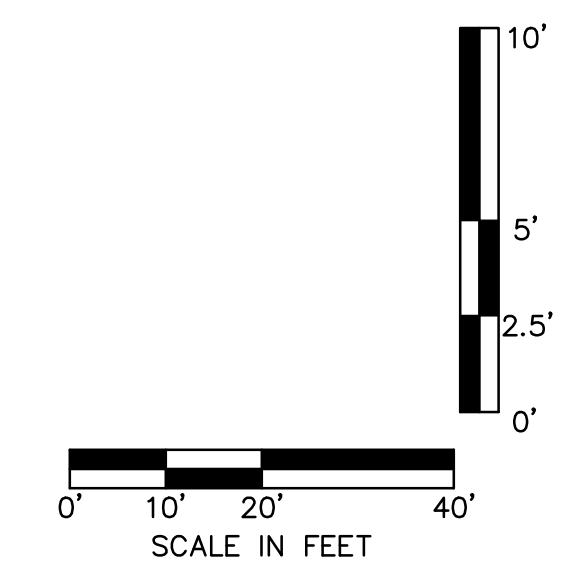
STRUCTURES	
ID	DESCRIPTION
D1	INSTALL 24" DIA. END SECTION WITH CONCRETE TOEWALL 10+00, 0.00' LINE D RIM= 997.20 INV IN = 994.71 (24" HDPE) N: 992436.343; E: 2832443.658
D2	INSTALL CONTROL STRUCTURE PER C1057 10+85, 0.00' LINE D RIM= 1003.30 INV IN = 995.63 (24" HDPE) INV OUT = 995.13 (24" HDPE) N: 992472.969; E: 2832366.953
D3	INSTALL 24" DIA. END SECTION WITH CONCRETE TOEWALL 11+00, 0.00' LINE E RIM= 997.03 INV OUT = 995.67 (24" HDPE) N: 992481.205; E: 2832364.177

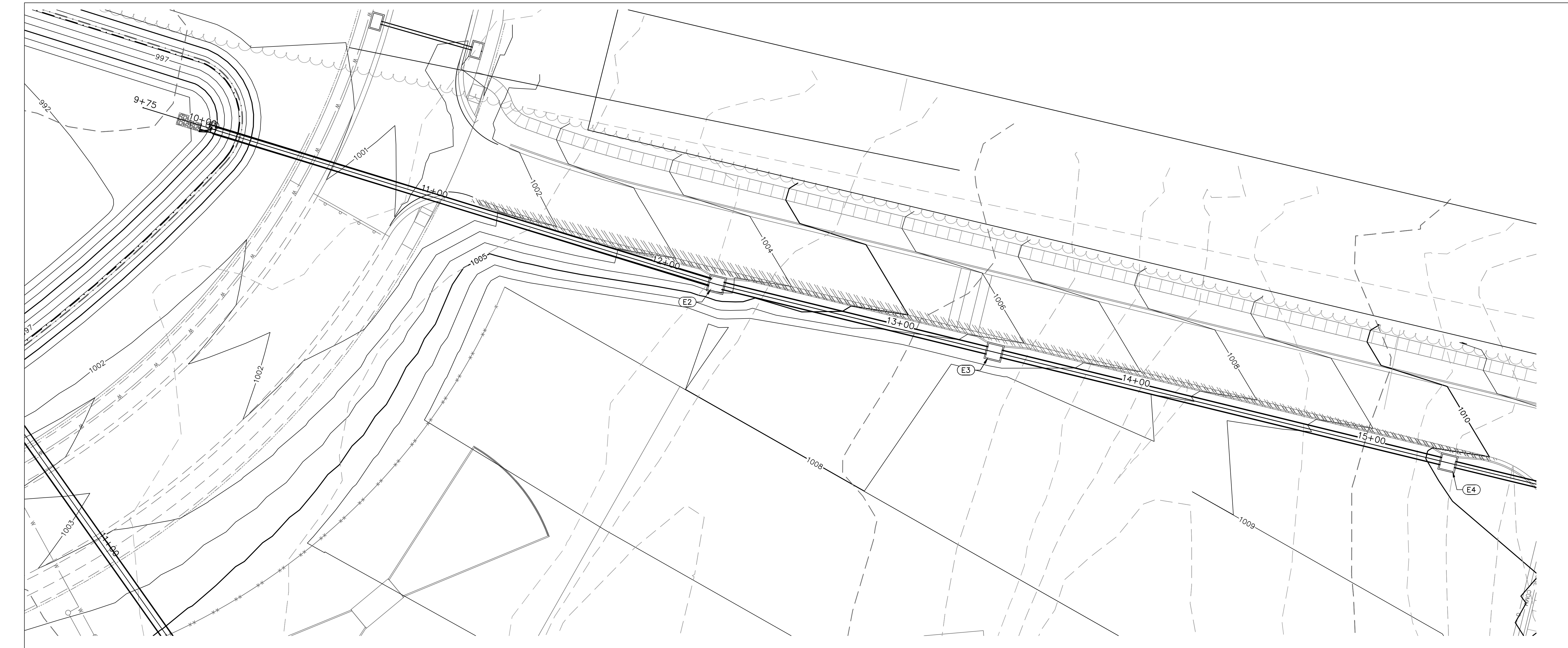
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

LEGEND

- PROPERTY LINE
- - - 830 EXISTING CONTOUR
- - - 830 PROPOSED CONTOUR
- ▭ PROPOSED STORM SEWER

COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED SEWER PIPE PRIOR TO INSTALLATION OF THE SEWER PIPE.





STRUCTURES	
ID	DESCRIPTION
E2	INSTALL 6'x6' CURB INLET 12+22.39, 0.00' LINE E RIM=1006.26 INV IN = 998.54 (36" HDPE) INV OUT = 998.04 (36" HP) N: 991696.727; E: 2831544.472
E3	INSTALL 6'x6' CURB INLET 13+40.26, 0.00' LINE E RIM=1006.25 INV IN = 999.43 (36" HDPE) INV OUT = 999.13 (36" HDPE) N: 991814.500; E: 2831549.282
E4	INSTALL 6'x6' CURB INLET 15+32.94, 0.00' LINE E RIM=1010.16 INV IN = 1001.53 (30" HDPE) INV OUT = 1000.39 (36" HDPE) N: 992007.016; E: 2831557.144

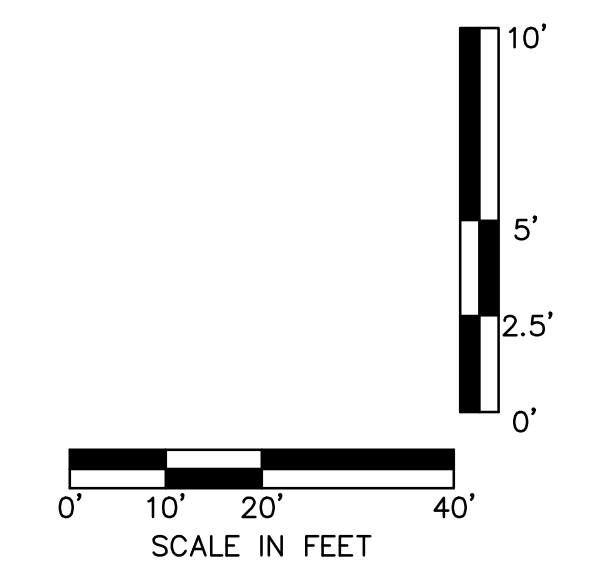
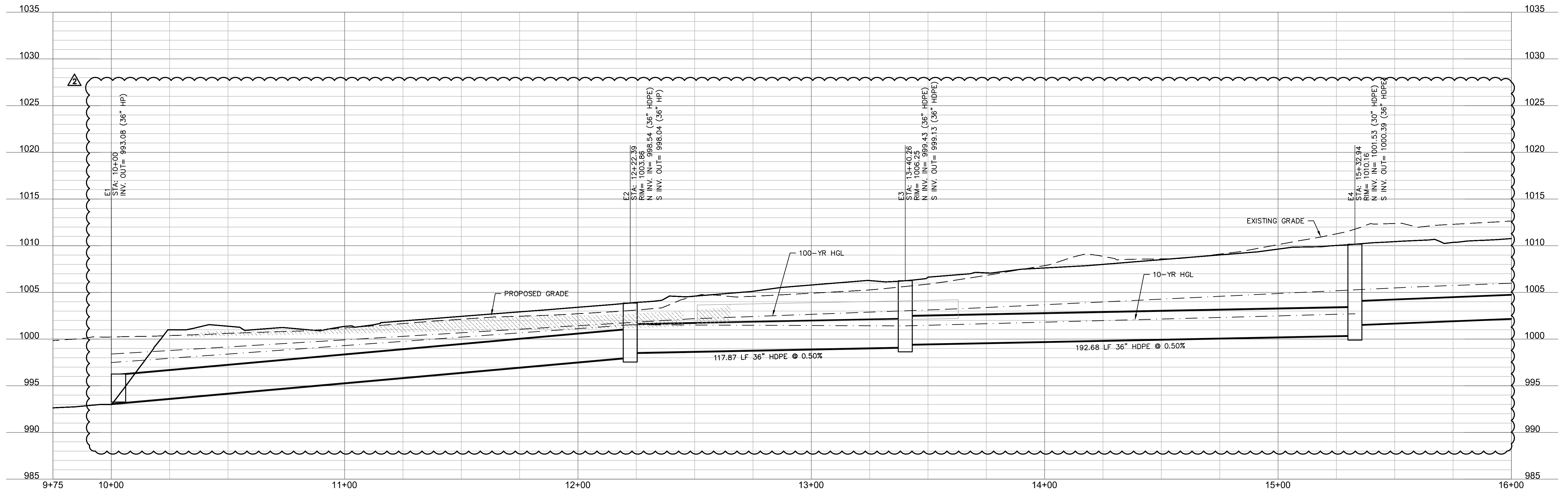
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

LEGEND

- PROPERTY LINE
- - - EXISTING CONTOUR
- - - PROPOSED CONTOUR
- PROPOSED STORM SEWER

COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED SEWER PIPE PRIOR TO INSTALLATION OF THE SEWER PIPE.

LINE E (9+75 - 16+00)



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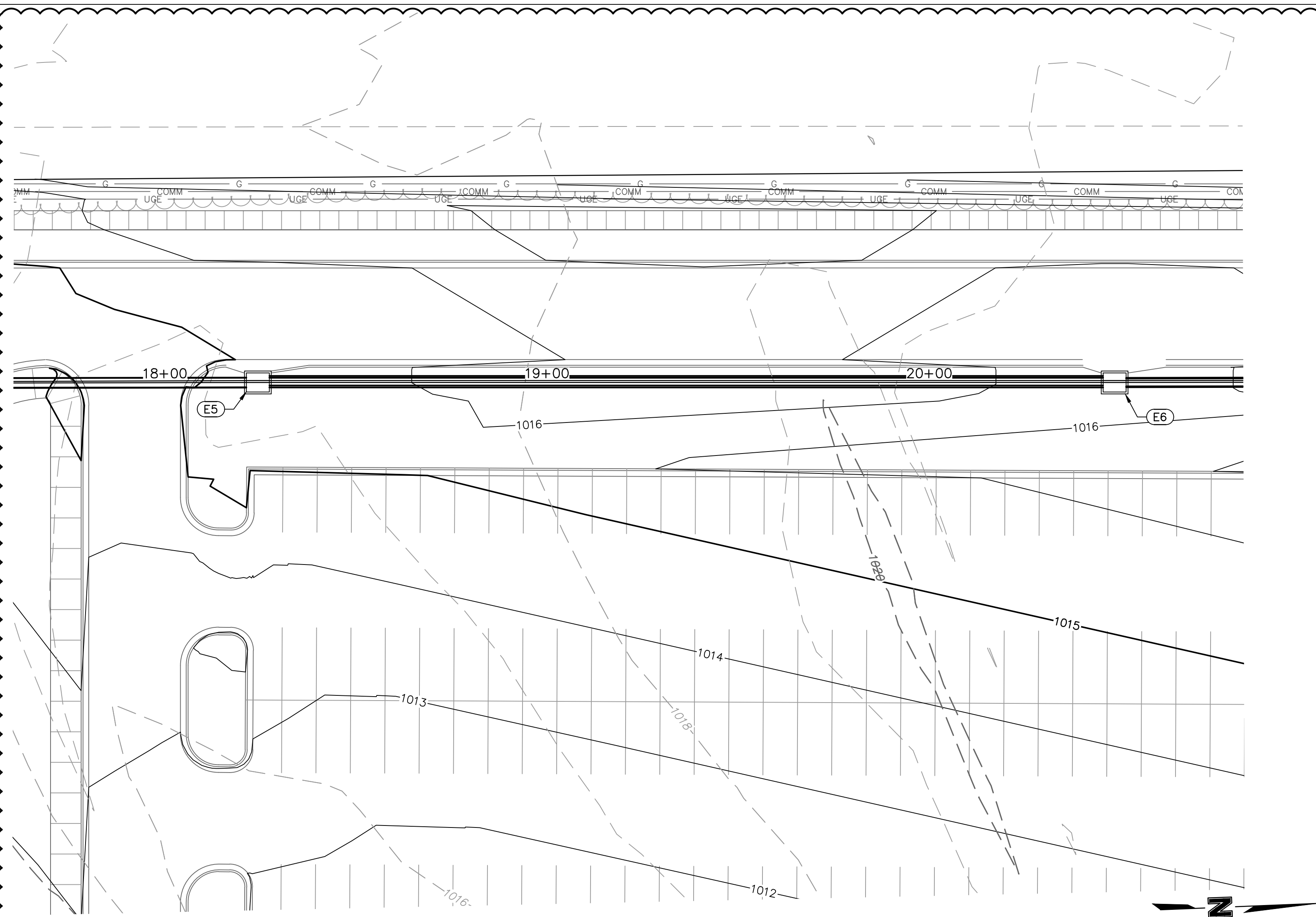
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**STORM SEWER
 PLAN & PROFILE -
 LINE E**
C1035



STRUCTURES	
ID	DESCRIPTION
E4	INSTALL 6'X6' CURB INLET 15+32.94, 0.00' LINE E RM= 1010.16 INV IN = 1001.53 (30" HDPE) INV OUT = 1000.39 (36" HDPE) N: 992007.018; E: 2831557.144
E5	INSTALL 6'X6' CURB INLET 18+24.27, 0.00' LINE E RM= 1015.54 INV IN = 1004.71 (30" HDPE) INV OUT = 1004.44 (30" HDPE) N: 992298.126; E: 2831568.526
E6	INSTALL 6'X6' CURB INLET 20+48.52, 0.00' LINE E RM= 1015.67 INV IN = 1006.58 (24" HDPE) INV OUT = 1006.28 (30" HDPE) N: 992522.182; E: 2831577.678

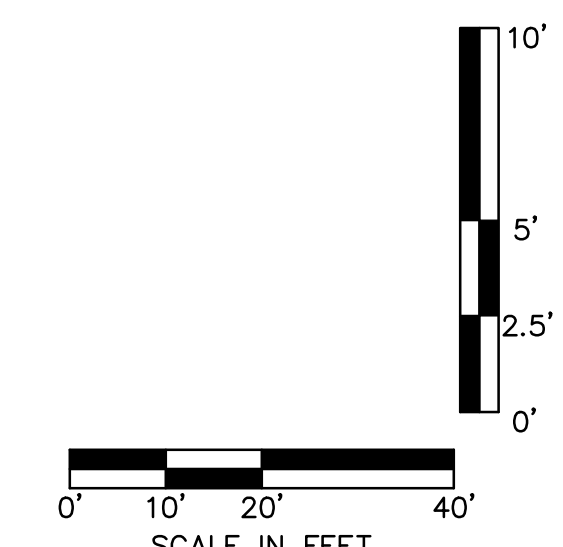
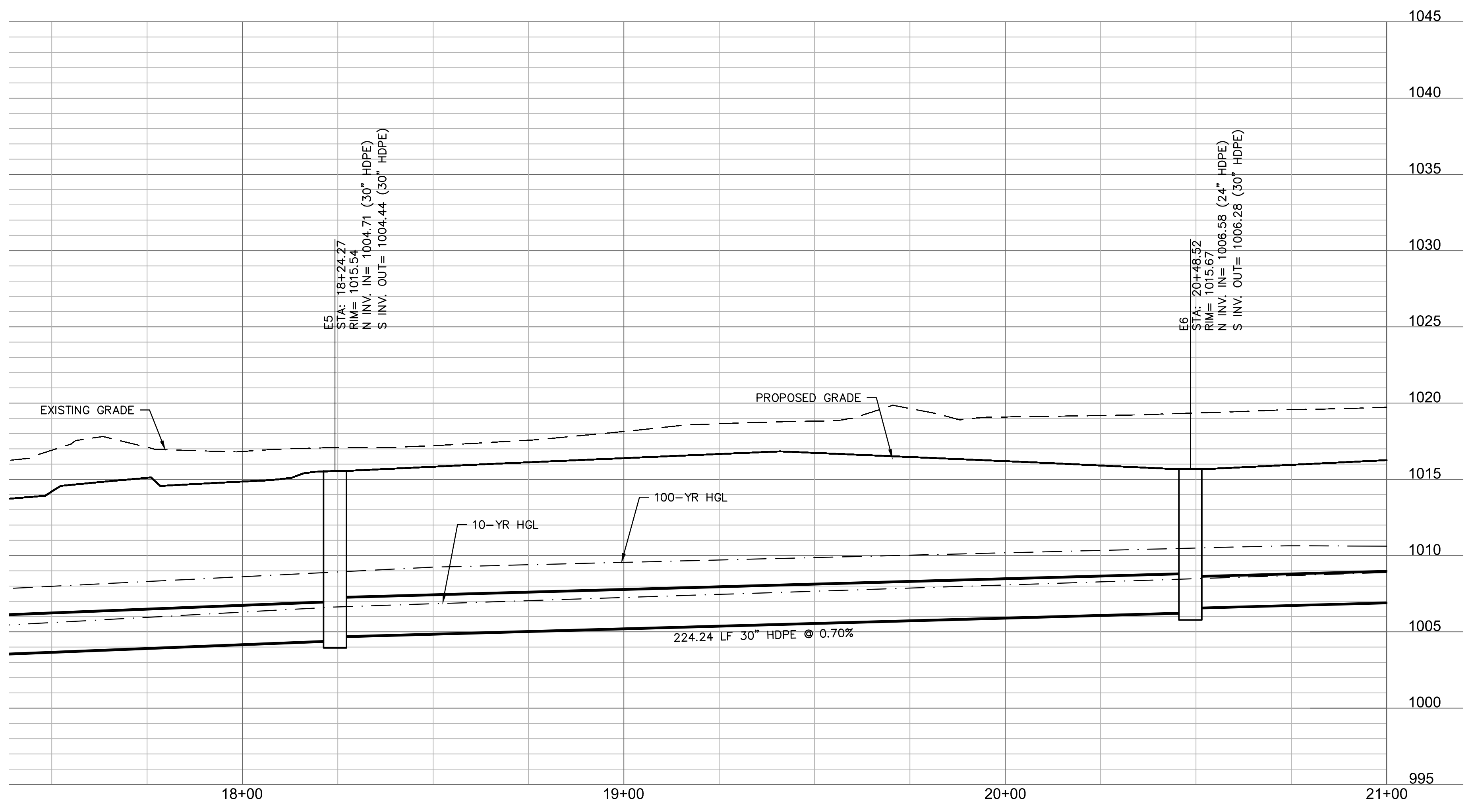
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED STORM SEWER

COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED SEWER PIPE PRIOR TO INSTALLATION OF THE SEWER PIPE.

LINE E (15+25 - 21+00)



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 USER: bkimmich
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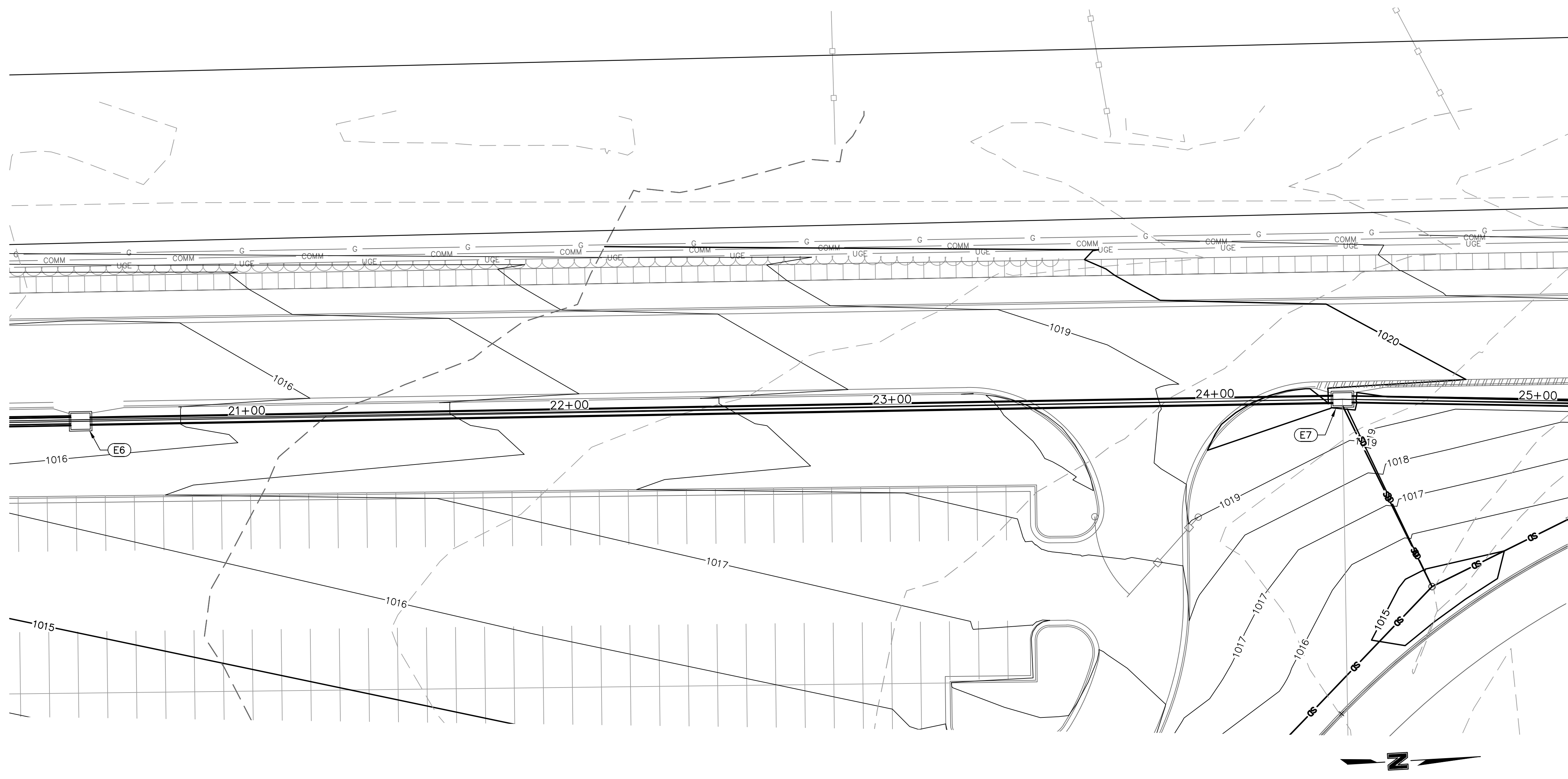
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STORM SEWER
 PLAN & PROFILE -
 LINE E

C1036



STRUCTURES	
ID	DESCRIPTION
E6	INSTALL 6'X5' CURB INLET 20+48.52, 0.00' LINE E RIM= 1015.67 INV IN = 1006.58 (24" HDPE) INV OUT = 1006.28 (30" HDPE) N: 992522.182; E: 2831577.678
E7	INSTALL 6'X4' CURB INLET 24+39.50, 0.00' LINE E RIM= 1020.05 INV IN = 1009.62 (24" HDPE) INV IN = 1009.82 (10" HDPE) INV OUT = 1009.32 (24" HDPE) N: 992912.857; E: 2831593.136
E8	INSTALL STD. 4' DIA. MH 26+88.20, -1.01' LT LINE E RIM= 1019.97 INV IN = 1012.69 (24" HDPE) INV OUT = 1012.36 (24" HDPE) N: 993160.903; E: 2831611.266

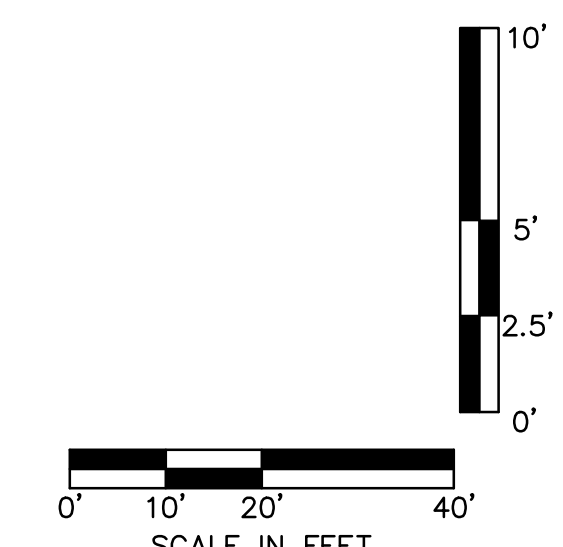
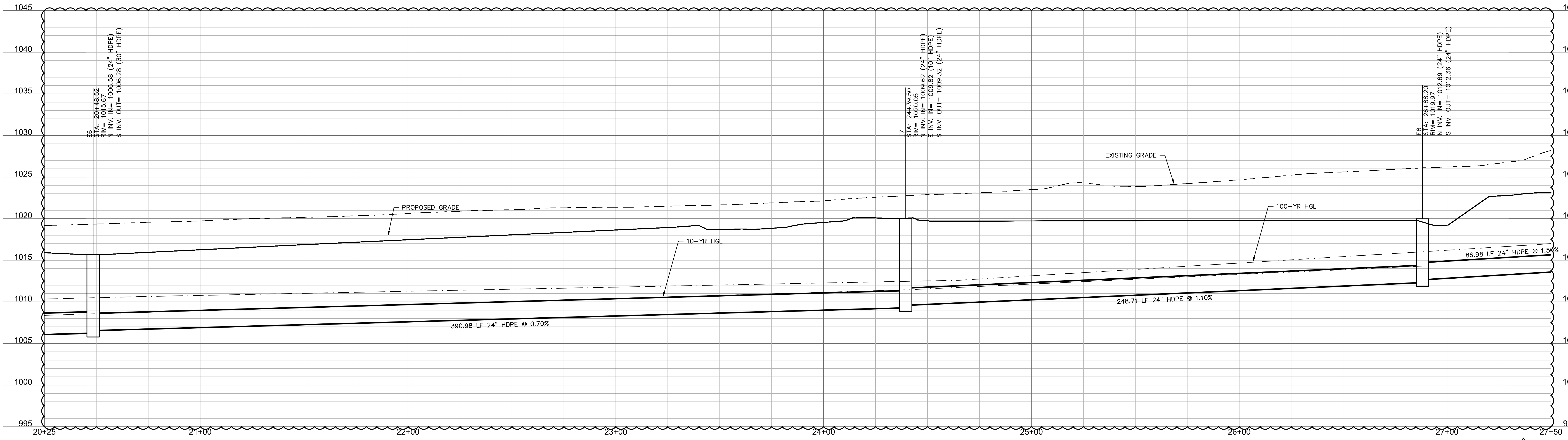
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED STORM SEWER

COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED SEWER PIPE PRIOR TO INSTALLATION OF THE SEWER PIPE.

LINE E (20+25 - 27+50)



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 USER: bkimmich
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 TERRY L. PARSONS
 PROFESSIONAL ENGINEER
 NUMBER PE-291601868
 01/15/2022

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STORM SEWER
 PLAN & PROFILE -
 LINE E

C1037

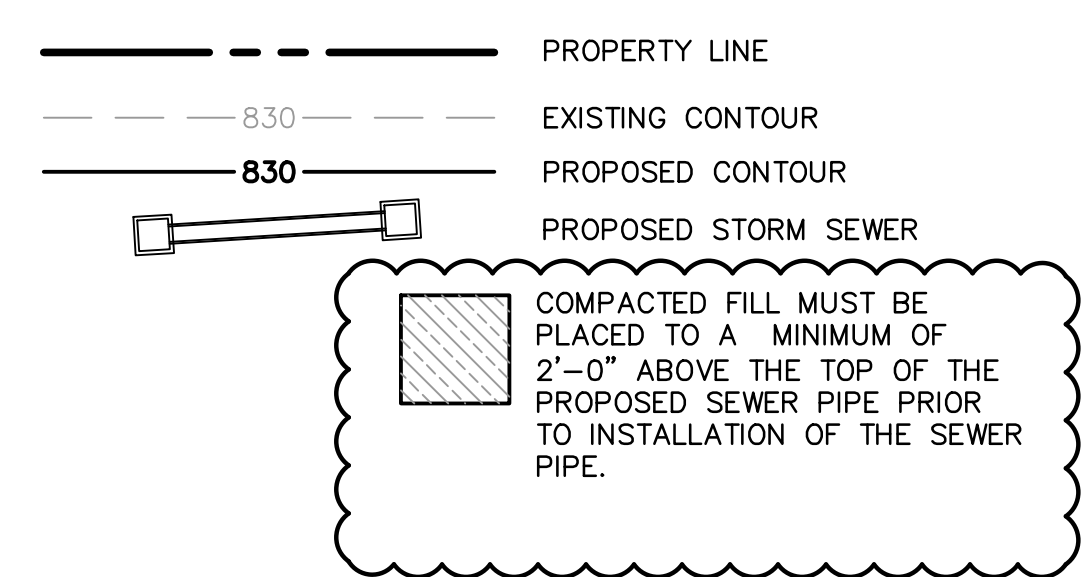


STRUCTURES	
ID	DESCRIPTION
E8	INSTALL STD. 4' DIA. MH 26+88.20, -1.01' LT LINE E RIM = 1019.97 INV IN = 1012.69 (24" HDPE) INV OUT = 1012.36 (24" HDPE) N: 993160.903; E: 2831611.266
E9	INSTALL 6'x5' CURB INLET 27+75.17, 0.00' LINE E RIM = 1023.75 INV IN = 1014.28 (15" HDPE) INV OUT = 1014.00 (24" HDPE) N: 993247.540; E: 2831618.964
E10	INSTALL 6'x4' CURB INLET 29+13.28, 0.00' LINE E RIM = 1025.18 INV OUT = 1016.35 (15" HDPE) N: 993356.535; E: 2831703.785

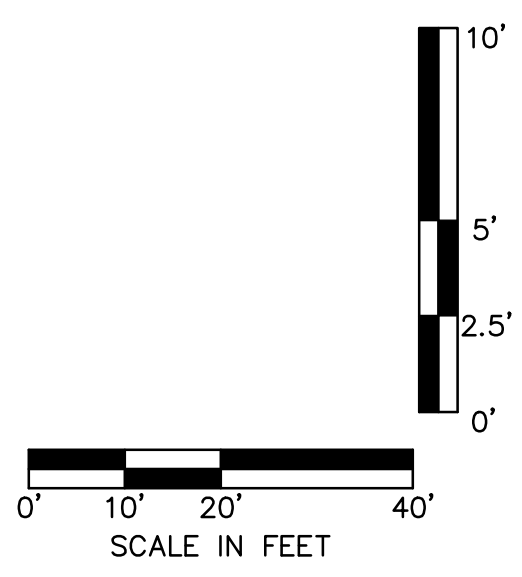
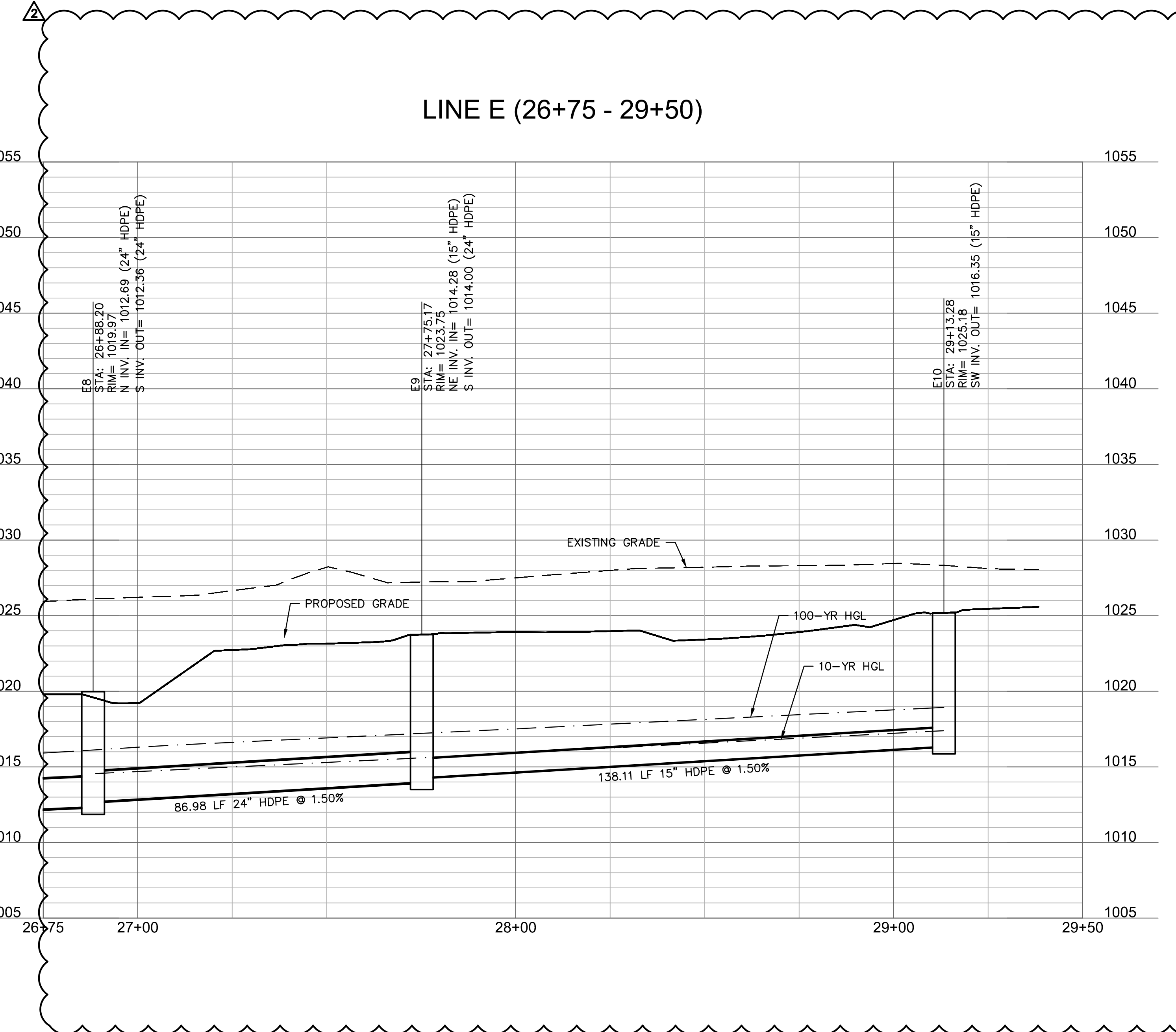
NOTES:

- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
- CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

LEGEND



LINE E (26+75 - 29+50)



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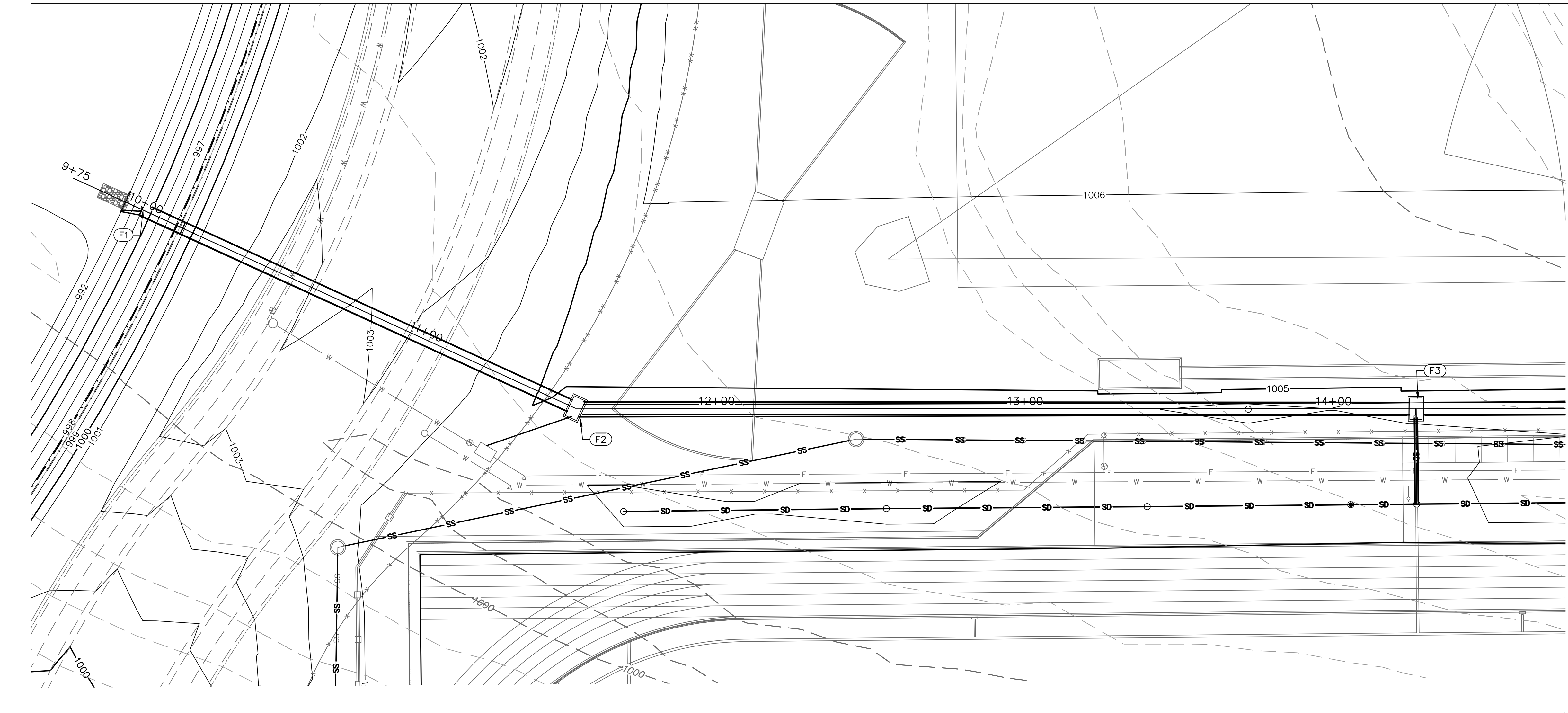
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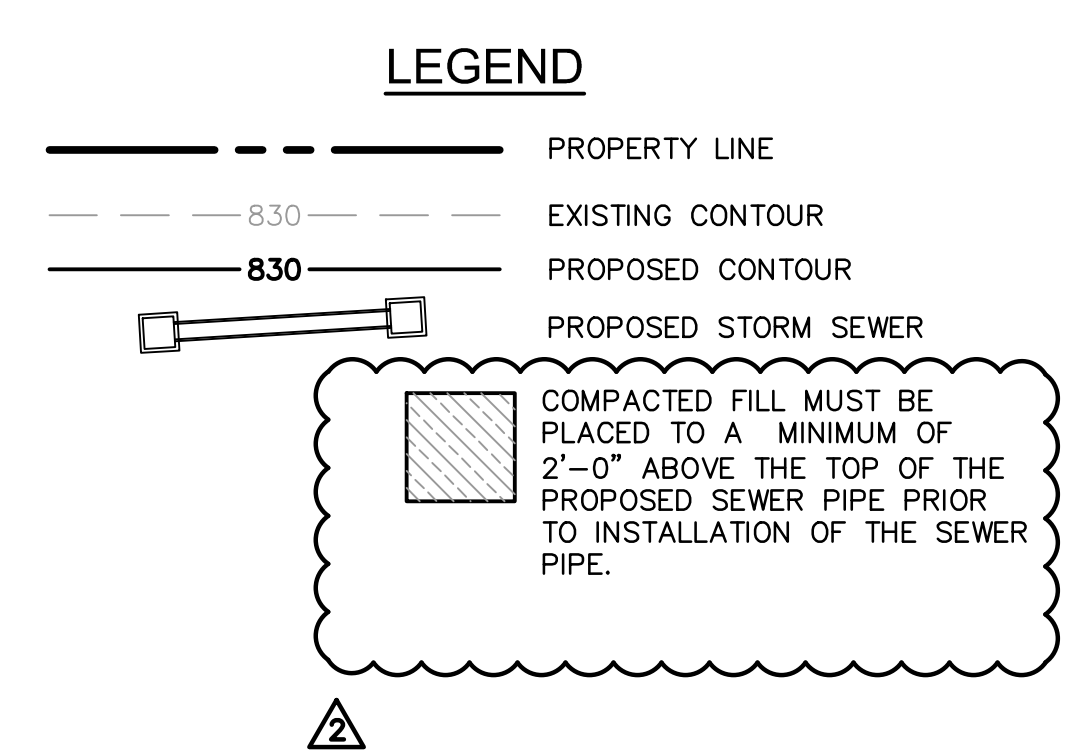
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**STORM SEWER
 PLAN & PROFILE -
 LINE E**
C1038

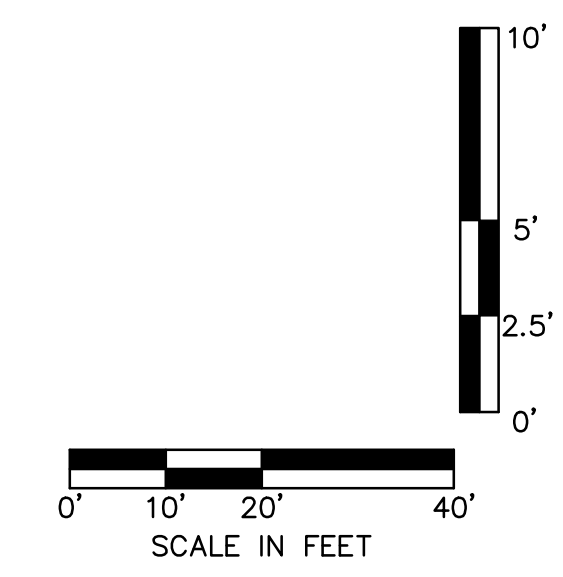
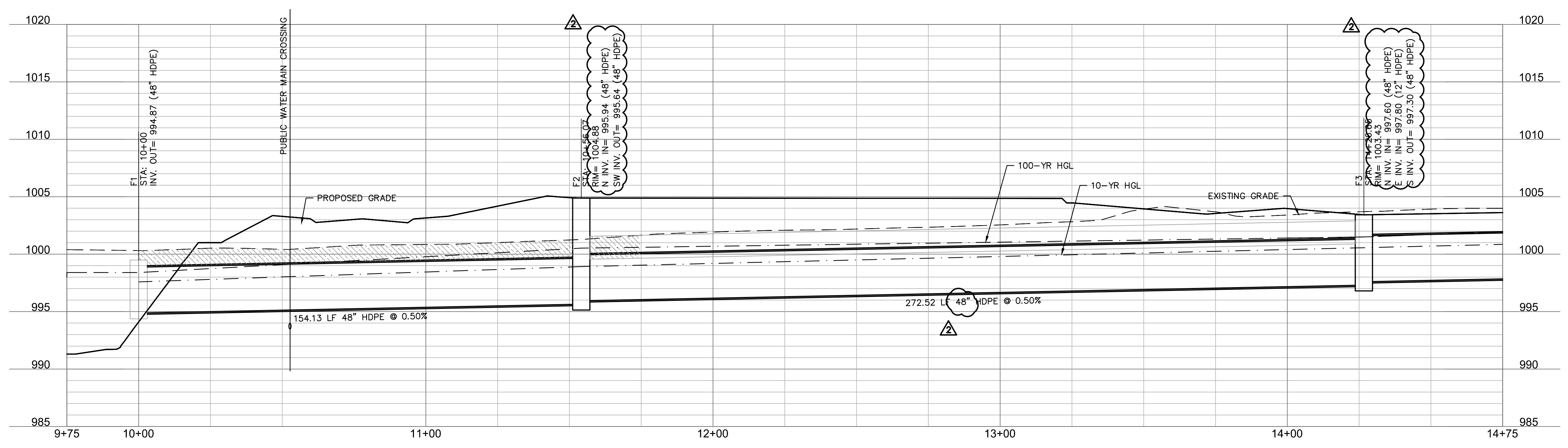


STRUCTURES	
ID	DESCRIPTION
F1	INSTALL 48" END SECTION WITH CONCRETE TOEWALL 10+00, 0.00' LINE F RIM = 994.49 INV IN = 994.87 (48" HDPE) N: 991398.070; E: 2831632.042
F2	INSTALL 7'x4' JUNCTION BOX 10+56.07, 211.14' RT LINE F RIM = 1004.88 INV IN = 995.94 (48" HDPE) INV OUT = 995.64 (48" HDPE) N: 991510.093; E: 2831737.899
F3	INSTALL 7'x4' DOUBLE GRATE INLET 14+26.65, 0.00' LINE F RIM = 1003.43 INV IN = 997.60 (48" HDPE) INV OUT = 997.30 (48" HDPE) N: 991768.065; E: 2831825.747

- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)



LINE F (9+75 - 14+75)



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 USER: bkimmich

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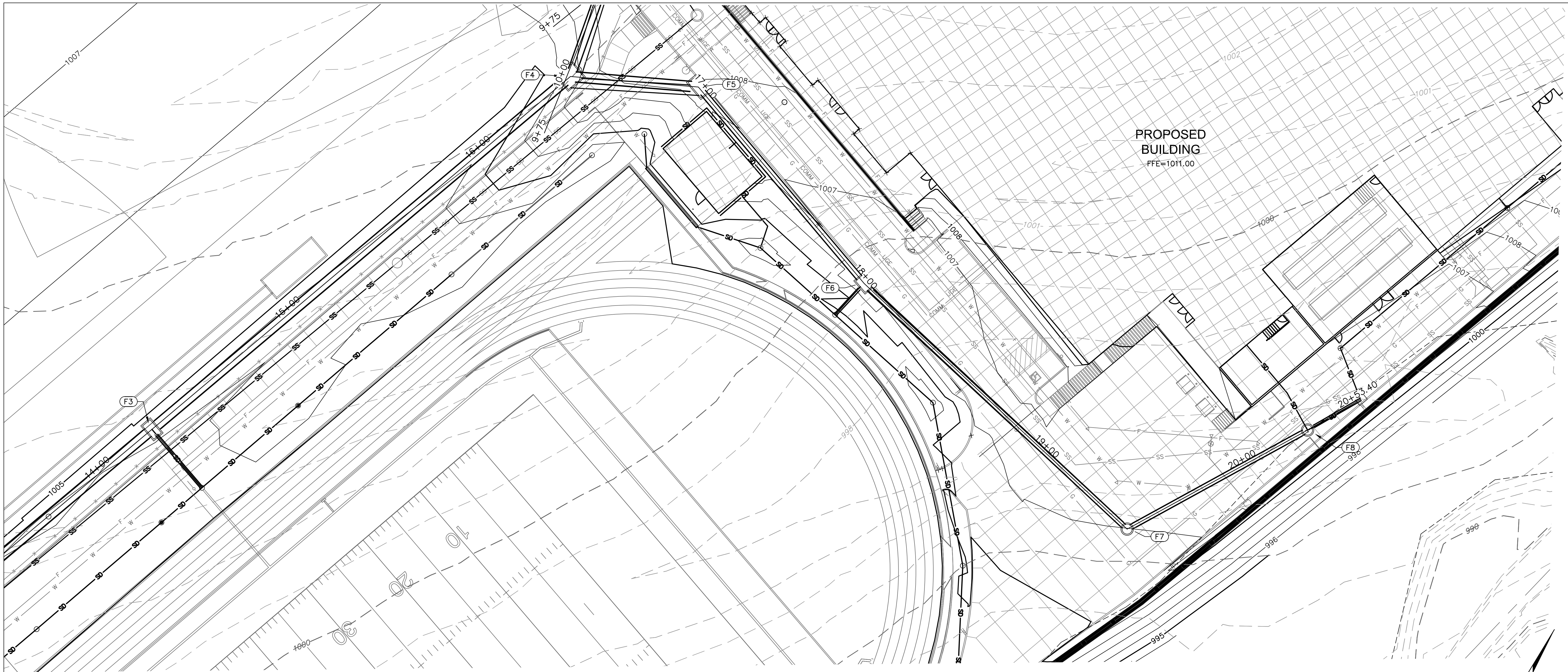
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STORM SEWER
PLAN & PROFILE -
LINE F

C1039



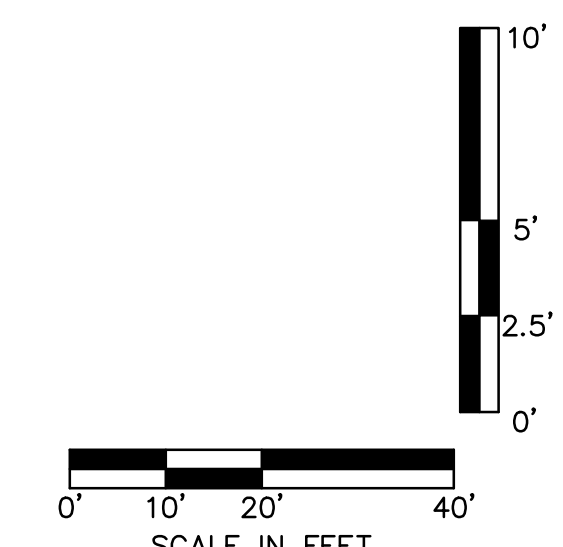
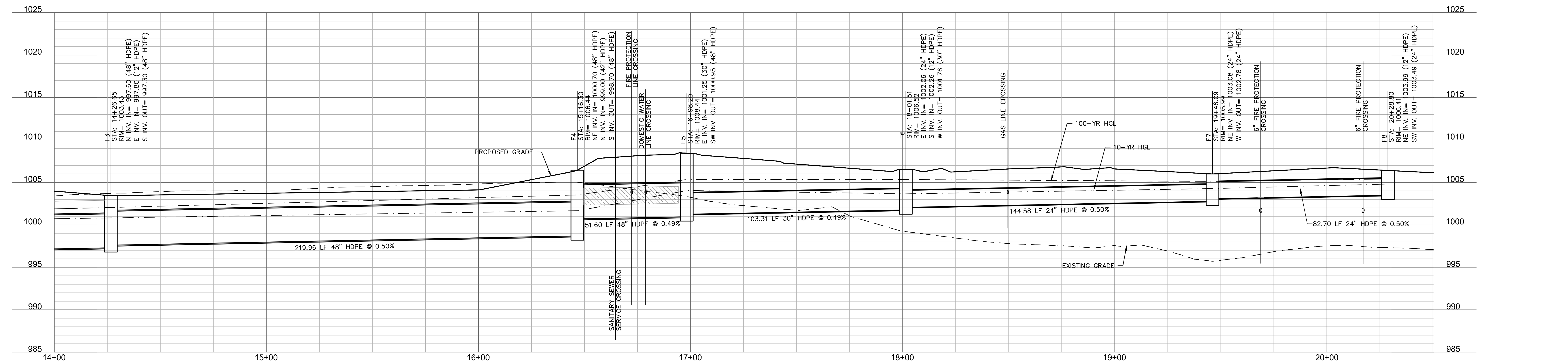
STRUCTURES	
ID	DESCRIPTION
F3	INSTALL 7'X4' DOUBLE GRATE INLET 14+26.65, 0.00' LINE F RIM= 1003.43 INV IN = 997.60 (48" HDPE) INV IN = 997.80 (12" HDPE) INV OUT = 997.30 (48" HDPE) N: 991768.065; E: 2831825.747
F4	INSTALL 9'X7' JUNCTION BOX 15+16.30, 339.76' RT LINE E RIM= 1006.44 INV IN = 1000.70 (48" HDPE) INV IN = 999.00 (42" HDPE) INV OUT = 998.70 (48" HDPE) N: 991976.526; E: 2831895.941
F5	INSTALL 9'X5' NON SETBACK CURB INLET 16+38.20, 0.00' LINE F RIM= 1008.44 INV IN = 1001.25 (30" HDPE) INV OUT = 1000.95 (48" HDPE) N: 991999.575; E: 2831942.104
F6	INSTALL 6'X5' NON-SETBACK CURB INLET 18+01.51, 0.00' LINE F RIM= 1006.52 INV IN = 1002.06 (24" HDPE) INV IN = 1002.26 (12" HDPE) INV OUT = 1001.76 (30" HDPE) N: 991966.617; E: 2832040.014
F7	INSTALL STD. 4' DIA. MH WITH HEAVY DUTY RING AND COVER 19+46.09, 0.00' LINE F RIM= 1005.99 INV IN = 1003.08 (24" HDPE) INV OUT = 1002.78 (24" HDPE) N: 991937.029; E: 2832181.536
F8	INSTALL STD. 4' DIA. MH WITH HEAVY DUTY RING AND COVER 20+28.80, 0.00' LINE F RIM= 1006.41 INV IN = 1003.99 (12" HDPE) INV OUT = 1003.49 (24" HDPE) N: 992008.656; E: 2832222.880

- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
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LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED STORM SEWER
- COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED SEWER PIPE PRIOR TO INSTALLATION OF THE SEWER PIPE.

LINE F (14+00 - 20+50.51)



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 USER: bkimmich
 T_PBASE_0200103
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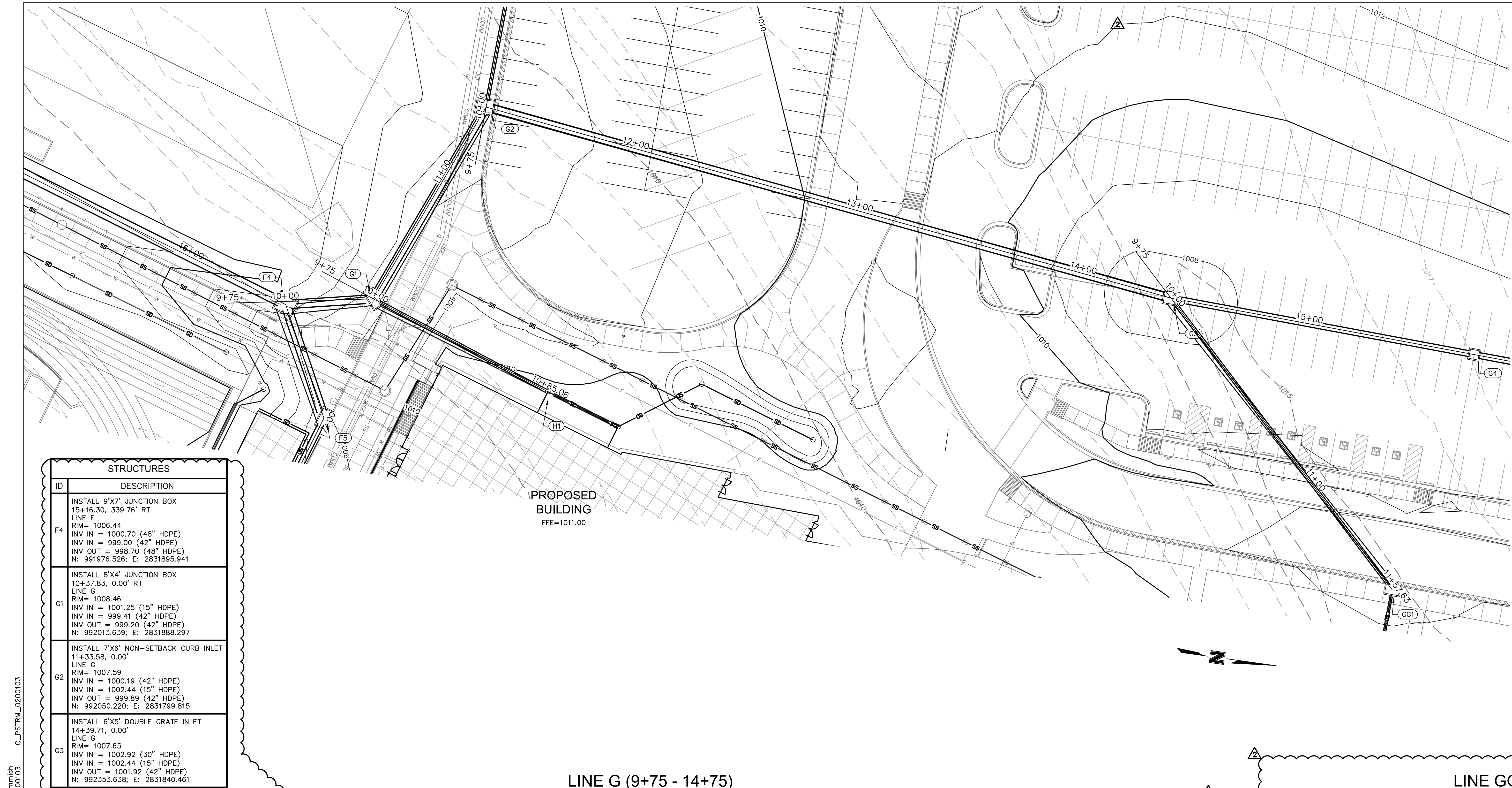
STORM SEWER
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Professional Engineer
TERRY M. PARSONS
NUMBER
PE-291601888
0118 (2012)

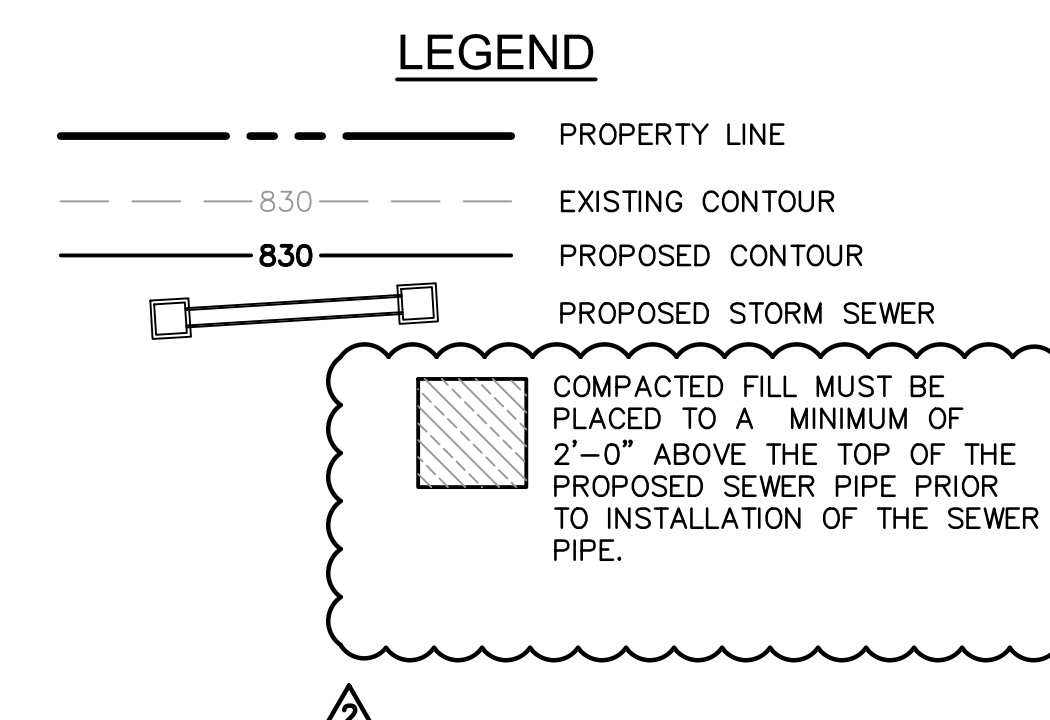
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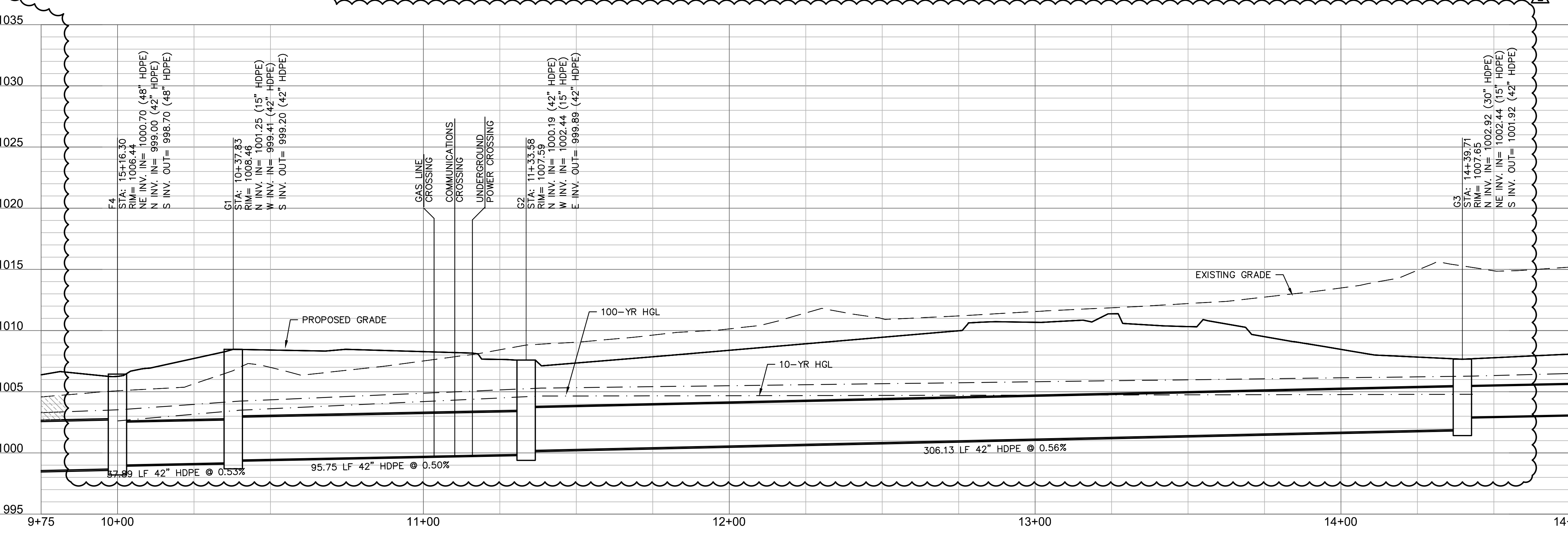
ID	DESCRIPTION
F4	INSTALL 9'X7' JUNCTION BOX 15+16.30, 339.76' RT LINE F RIM= 1006.44 INV IN = 1000.70 (48" HDPE) INV IN = 999.00 (42" HDPE) INV OUT = 998.70 (48" HDPE) N: 991976.526; E: 2831895.941
G1	INSTALL 8'X4' JUNCTION BOX 10+37.83, 0.00' RT LINE G RIM= 1008.46 INV IN = 1001.25 (15" HDPE) INV IN = 999.41 (42" HDPE) INV OUT = 999.20 (42" HDPE) N: 992013.639; E: 2831888.297
G2	INSTALL 7'X6' NON-SETBACK CURB INLET 11+33.58, 0.00' LINE G RIM= 1007.59 INV IN = 1000.19 (42" HDPE) INV IN = 1002.44 (15" HDPE) INV OUT = 999.89 (42" HDPE) N: 992050.220; E: 2831799.615
G3	INSTALL 6'X5' DOUBLE GRATE INLET 14+39.71, 0.00' LINE G RIM= 1007.65 INV IN = 1002.92 (30" HDPE) INV IN = 1002.44 (15" HDPE) INV OUT = 1001.92 (42" HDPE) N: 992353.638; E: 2831840.461

STRUCTURES	
ID	DESCRIPTION
G3	INSTALL 6'X5' DOUBLE GRATE INLET 14+39.71, 0.00' LINE G RIM= 1007.65 INV IN = 1002.92 (30" HDPE) INV IN = 1002.44 (15" HDPE) INV OUT = 1001.92 (42" HDPE) N: 992353.638; E: 2831840.461
GG1	5' X 5' - JUNCTION BOX 11+57.63, 0.00' LINE GG RIM= 1008.63 INV IN = 1003.73 (12" HDPE) INV OUT = 1003.23 (15" HDPE) N: 992465.374; E: 2831951.641

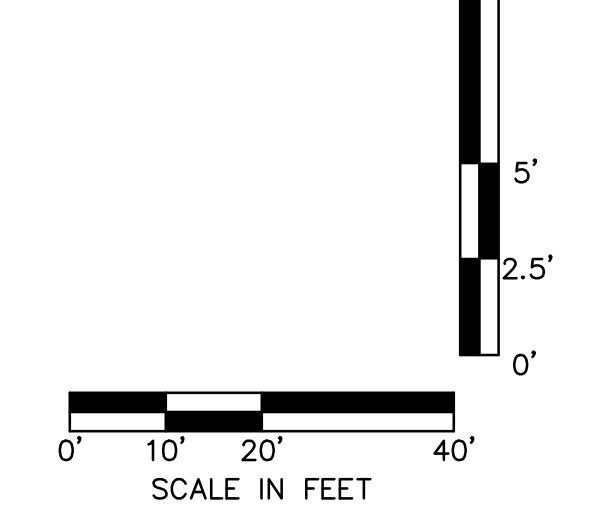
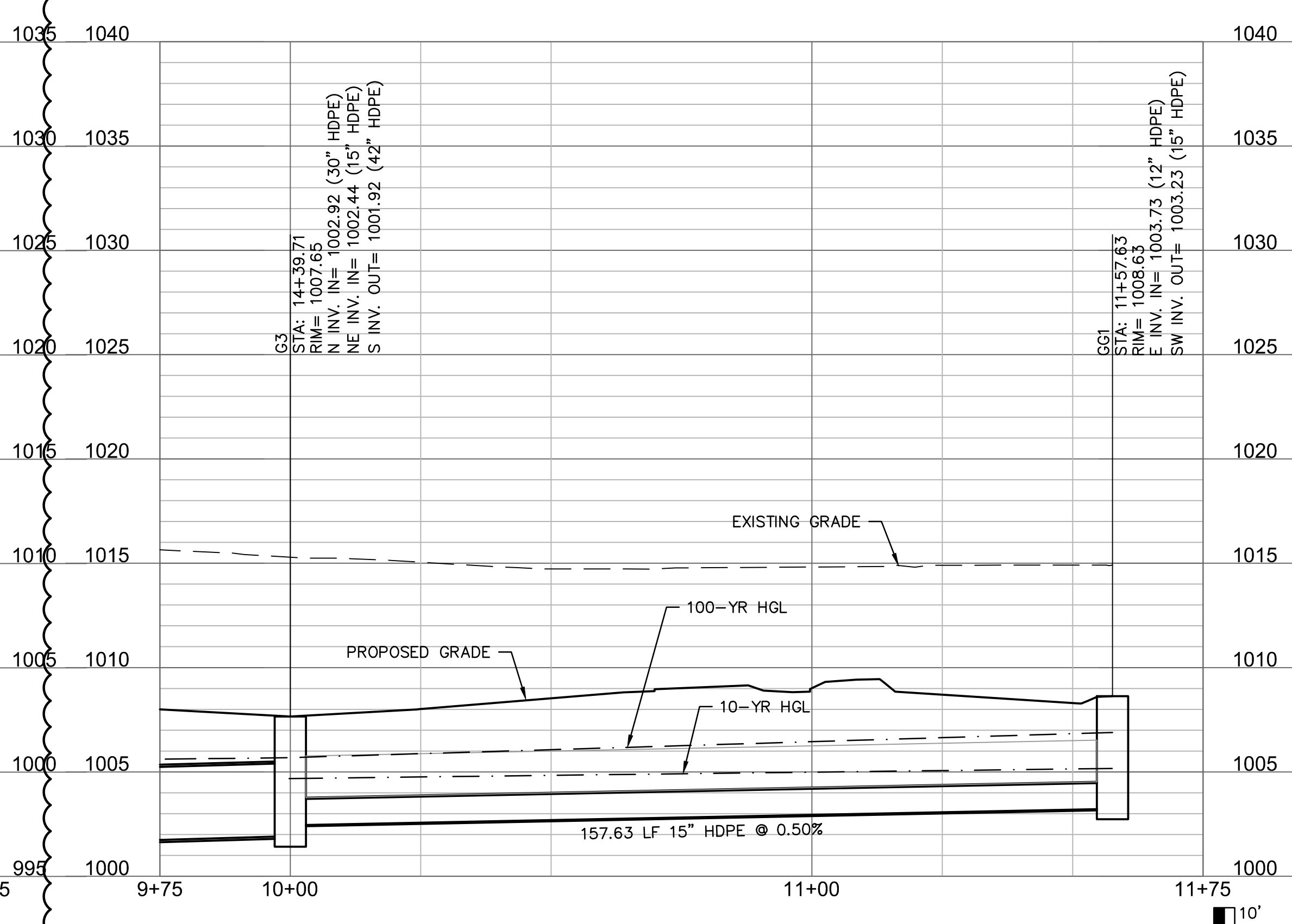
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)



LINE G (9+75 - 14+75)



LINE GG (9+75 - 11+75)



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 C_PSTRM_0200103

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**STORM SEWER
PLAN & PROFILE -
LINE G**

C1041

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TERRY PARSONS
NUMBER
PE-2918018895
0118/2020



STRUCTURES	
ID	DESCRIPTION
G3	INSTALL 6'X5' DOUBLE GRATE INLET 14+39.71, 0.00' LINE G RIM= 1007.65 INV IN = 1002.92 (30" HDPE) INV IN = 1002.44 (15" HDPE) INV OUT = 1001.92 (42" HDPE) N: 992353.638; E: 2831840.461
G4	INSTALL 5'X5' DOUBLE GRATE INLET 15+72.47, 0.00' LINE G RIM= 1008.10 INV IN = 1003.88 (30" HDPE) INV OUT = 1003.58 (30" HDPE) N: 992486.265; E: 2831846.479
G5	INSTALL 5'X5' DOUBLE GRATE INLET 16+99.94, 0.00' LINE G RIM= 1010.43 INV IN = 1005.02 (24" HDPE) INV OUT = 1004.52 (30" HDPE) N: 992613.603; E: 2831852.256
G6	INSTALL 5'X4' JUNCTION BOX 18+52.50, 0.00' LINE G RIM= 1013.93 INV IN = 1006.08 (18" HDPE) INV OUT = 1005.94 (24" HDPE) N: 992765.725; E: 2831863.789

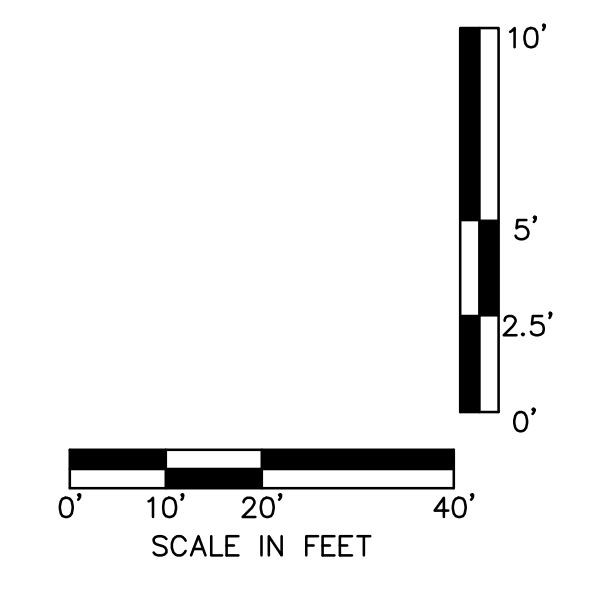
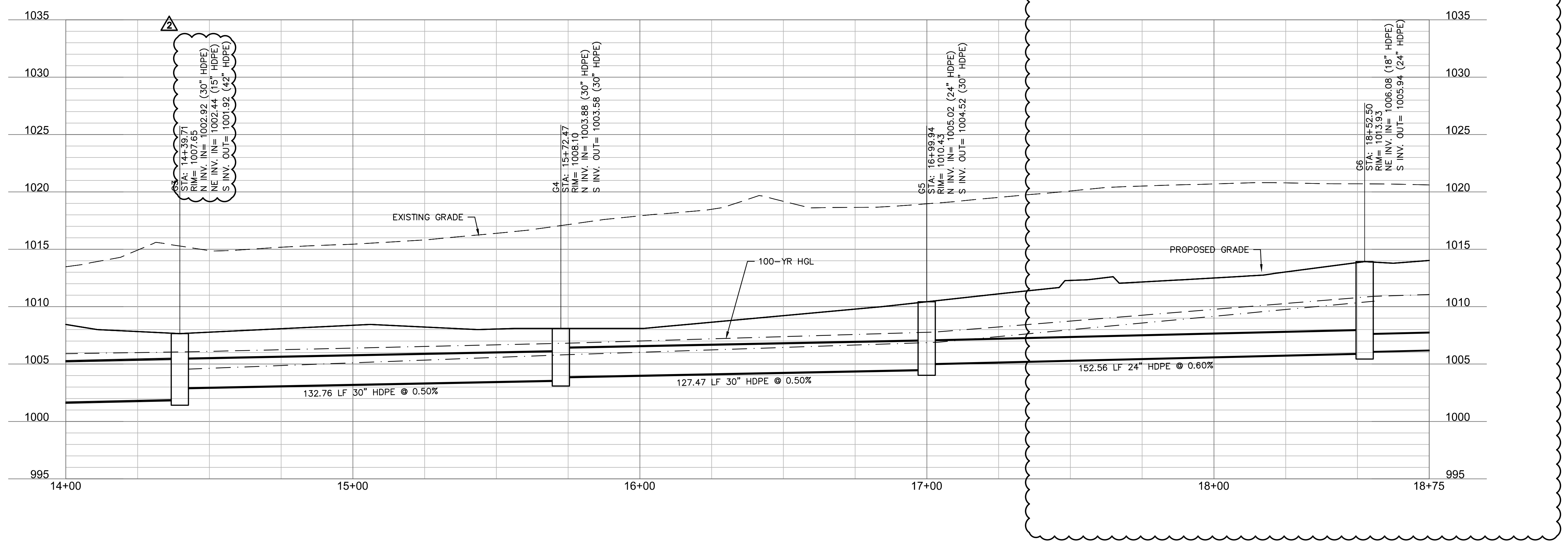
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

LEGEND

- PROPERTY LINE
- - - EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED STORM SEWER

COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED SEWER PIPE PRIOR TO INSTALLATION OF THE SEWER PIPE.

LINE G (14+00 - 18+75)



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 PLAN & PROFILE -
 LINE G AND GG
C1042

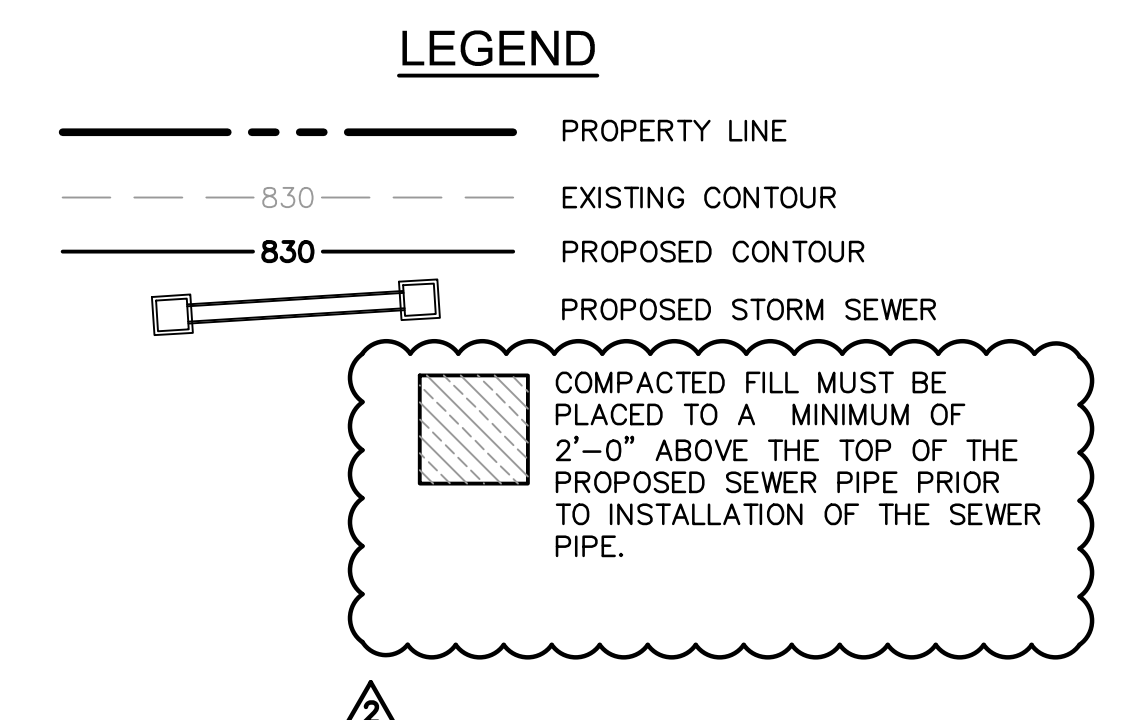
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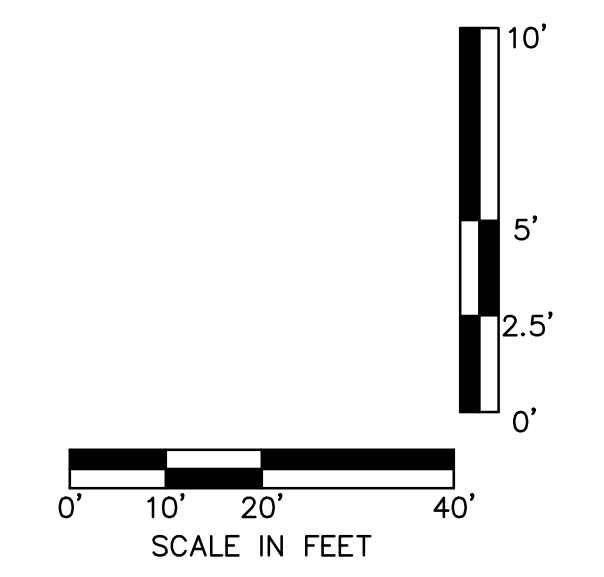
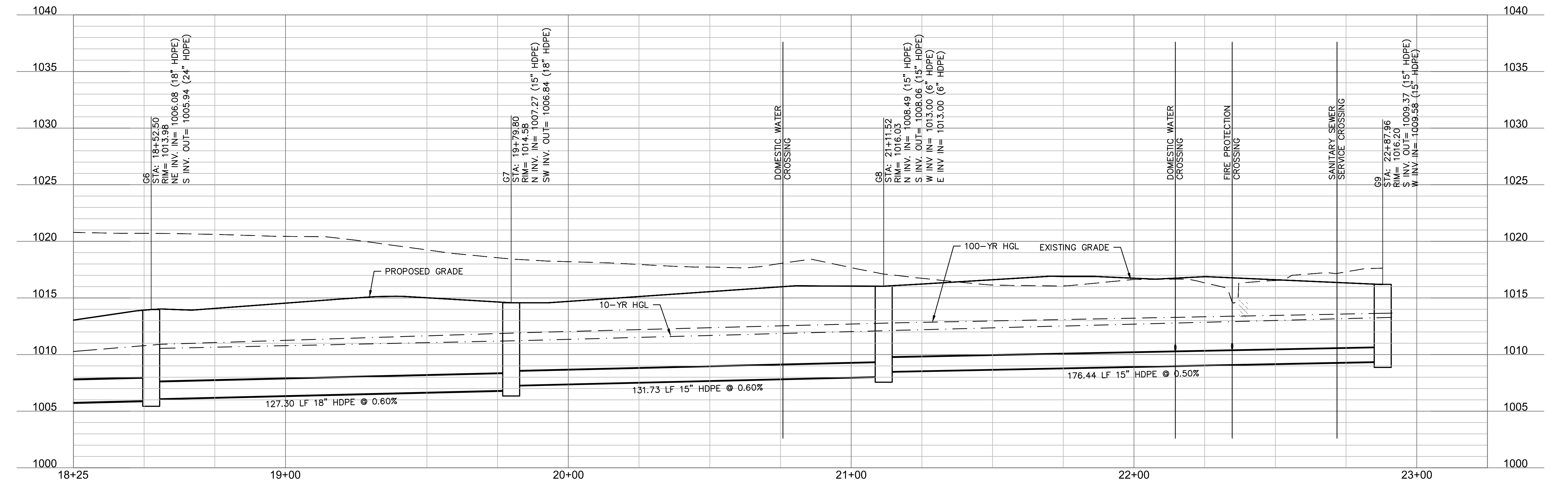


STRUCTURES	
ID	DESCRIPTION
G6	INSTALL 5'x4' JUNCTION BOX 18+52.50, 0.00' LINE G RIM = 1013.98 INV IN = 1006.08 (18" HDPE) INV OUT = 1005.94 (24" HDPE) N: 992765.725; E: 2831863.789
G7	INSTALL 4'x4' JUNCTION BOX 19+79.80, 0.00' LINE G RIM = 1014.58 INV IN = 1007.27 (15" HDPE) INV OUT = 1006.84 (18" HDPE) N: 992857.289; E: 2831952.225
G8	INSTALL 2' DIA. NYLOPLAST BASIN WITH PEDESTRIAN GRATE LID 21+11.52, 0.00' LINE G RIM = 1016.03 INV IN = 1008.49 (15" HDPE) INV OUT = 1008.06 (15" HDPE) N: 992983.957; E: 2831988.380
G9	INSTALL 2' DIA. NYLOPLAST BASIN WITH PEDESTRIAN GRATE LID 22+87.96, 0.00' LINE G RIM = 1016.20 INV OUT = 1009.37 (15" HDPE) N: 993160.211; E: 2831996.383

- NOTES:**
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 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)



LINE G (18+25 - 23+25)



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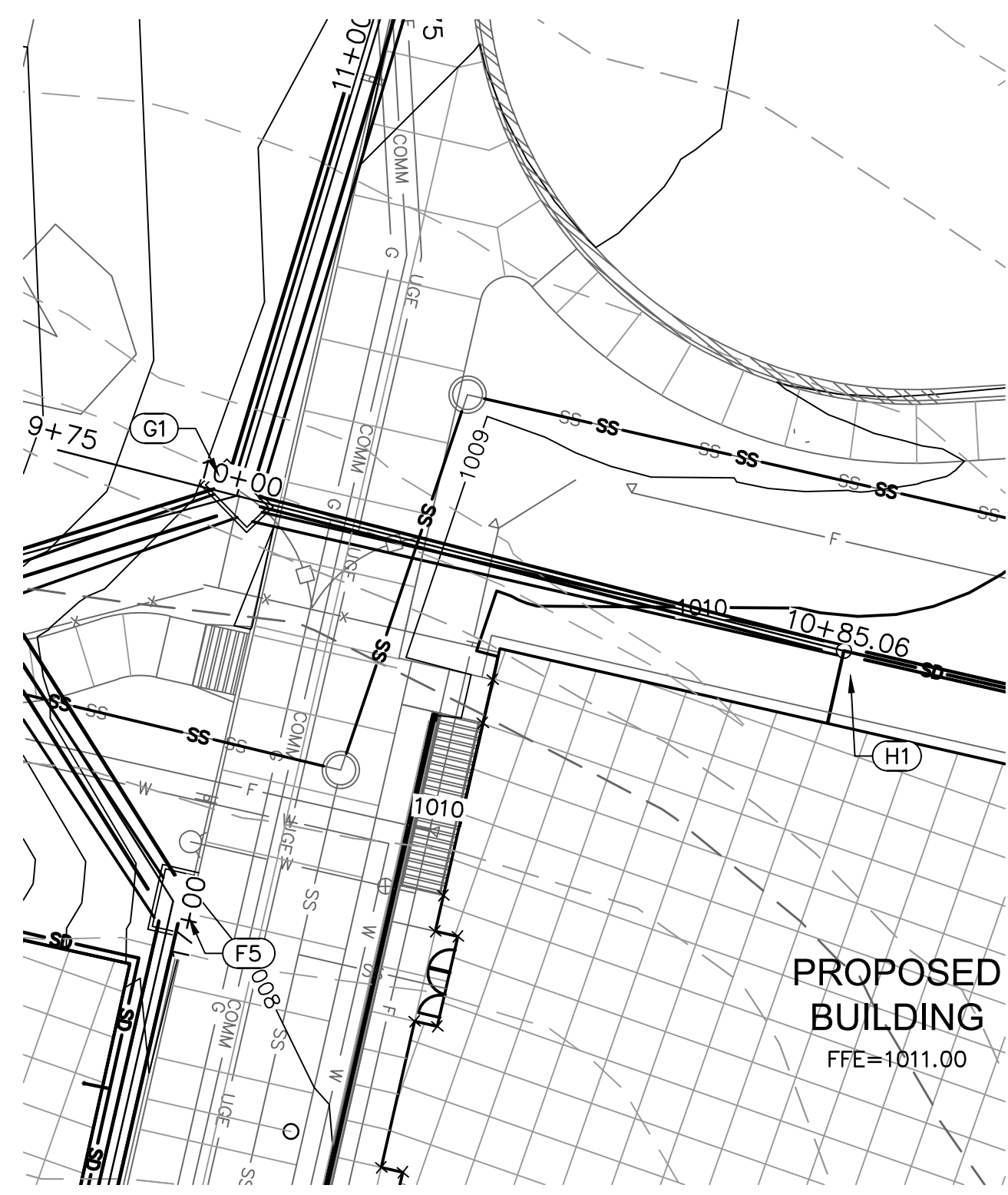
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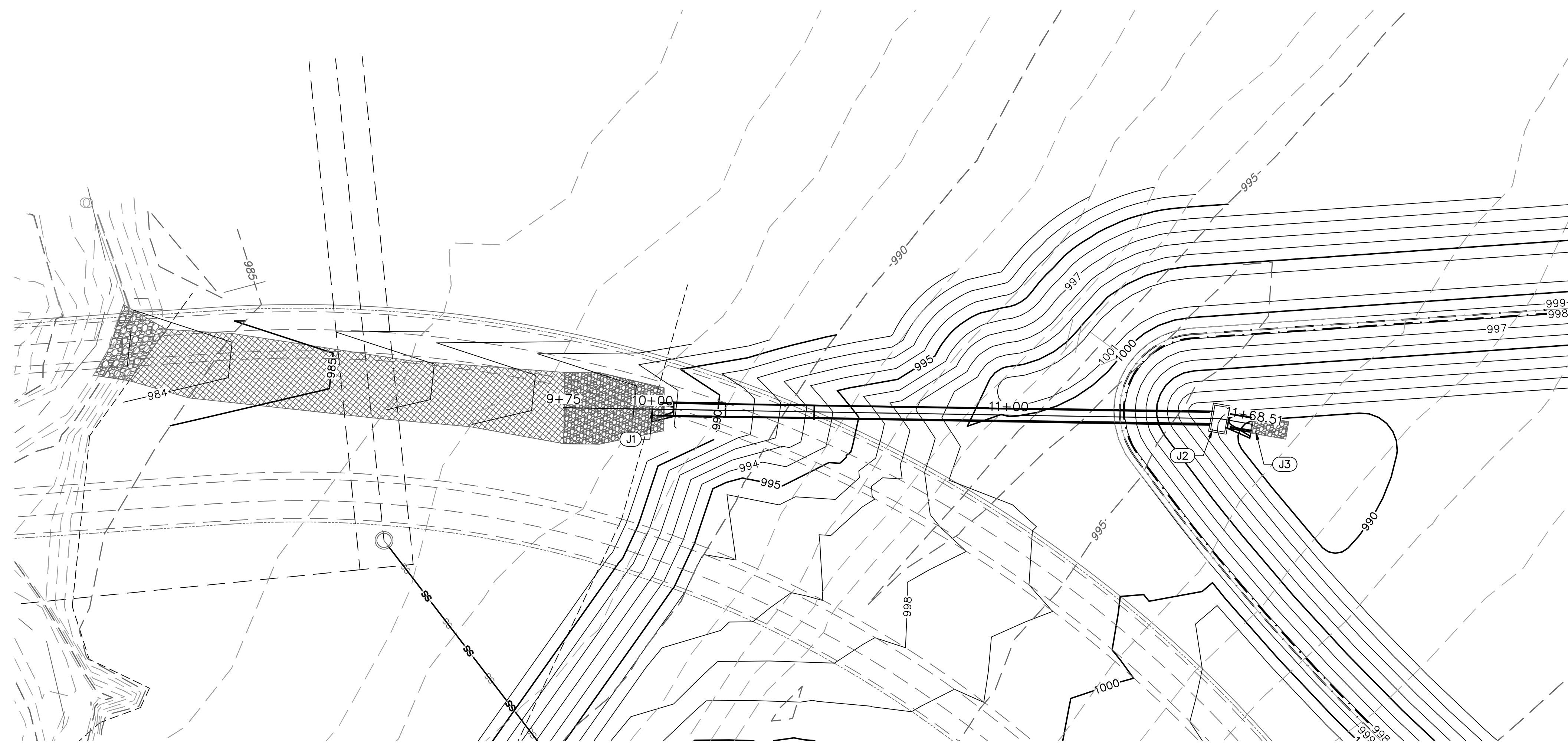
STORM SEWER
 PLAN & PROFILE -
 LINE G

C1043

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STRUCTURES	
ID	DESCRIPTION
G1	INSTALL 8'x4' JUNCTION BOX 10+37.83, 0.00' RT LINE G RIM = 1008.46 INV IN = 1001.25 (15" HDPE) INV IN = 999.41 (42" HDPE) INV OUT = 999.20 (42" HDPE) N: 992013.639; E: 2831888.297
H1	INSTALL 2' DIA. NYLOPLAST BASIN WITH SOLID LID 10+85.06, 0.00' LINE H RIM = 1010.25 INV IN = 1002.60 (12" HDPE) INV OUT = 1002.10 (15" HDPE) N: 992093.480; E: 2831917.465

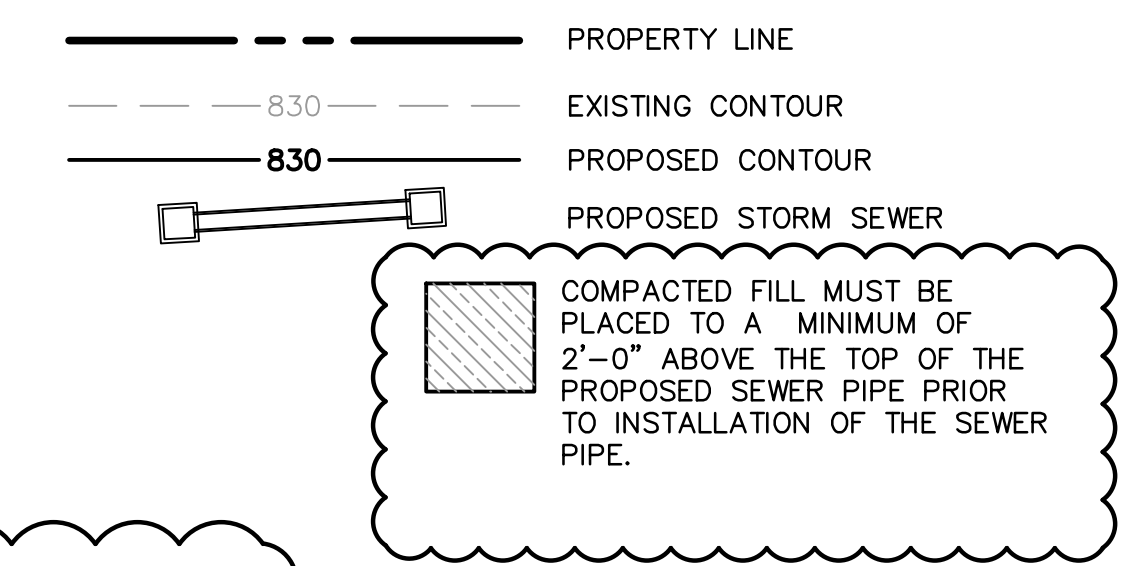


STRUCTURES	
ID	DESCRIPTION
J1	INSTALL 48" DIA. END SECTION WITH CONCRETE TOEWALL 10+00, 0.00' LINE J RIM = 992.54 INV IN = 988.44 (42" HDPE) N: 991241.500; E: 2831885.333
J2	INSTALL CONTROL STRUCTURE PER C1058 11+59.29, 0.00' LINE J RIM = 993.14 INV IN = 989.54 (42" HDPE) INV OUT = 989.54 (42" HDPE) N: 991260.071; E: 2831727.130
J3	INSTALL 24" DIA. END SECTION WITH CONCRETE TOEWALL 11+68.51, 0.00' LINE J RIM = 993.69 INV IN = 989.59 (42" HDPE) INV OUT = 989.59 (42" HDPE) N: 991262.548; E: 2831718.253

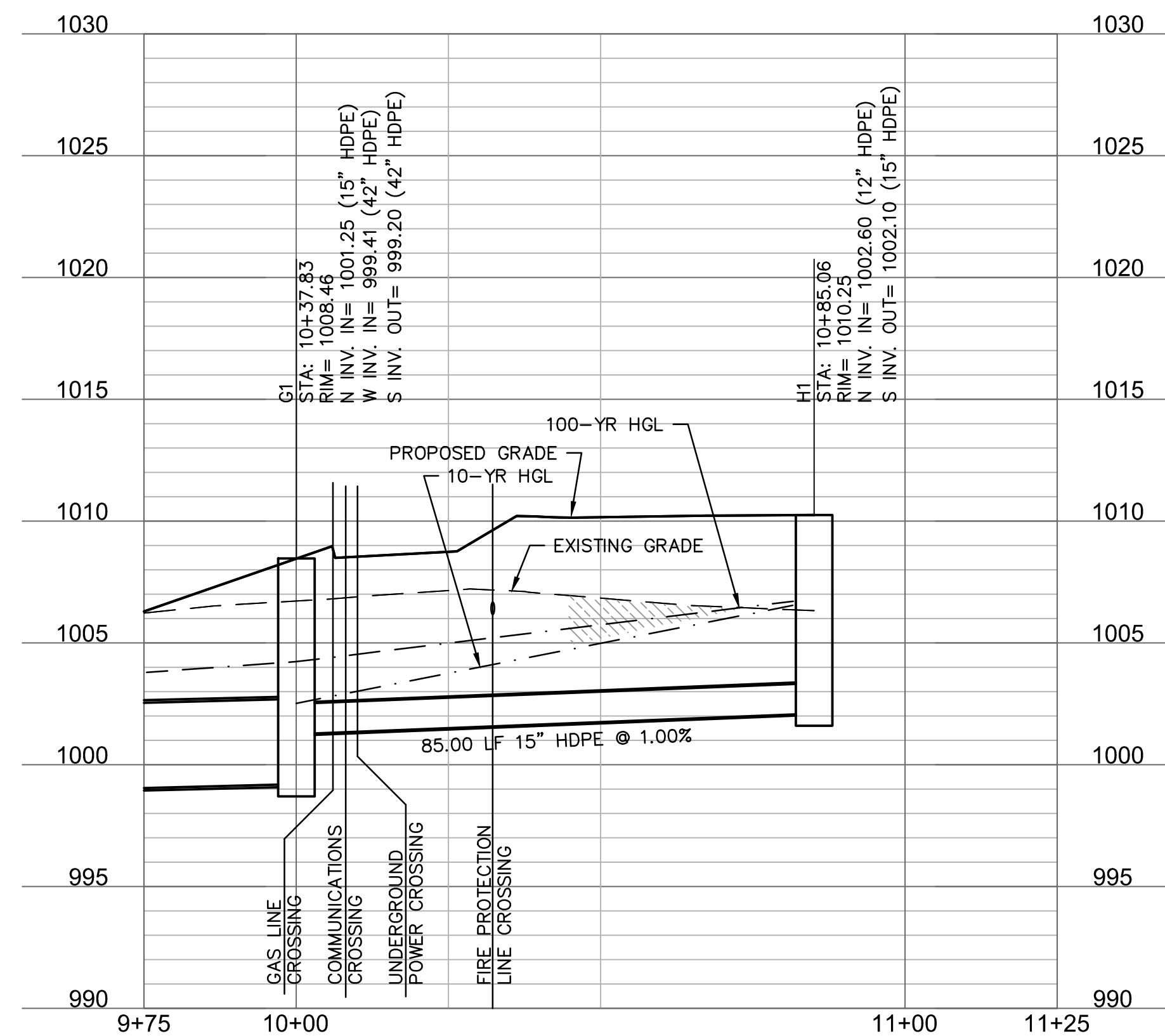
NOTES:

- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
- CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

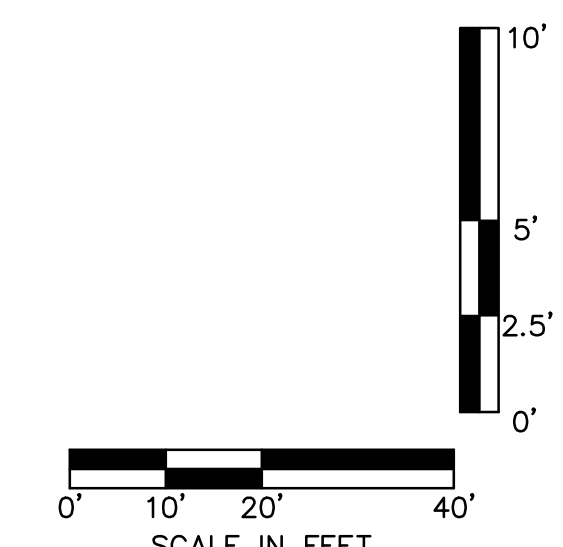
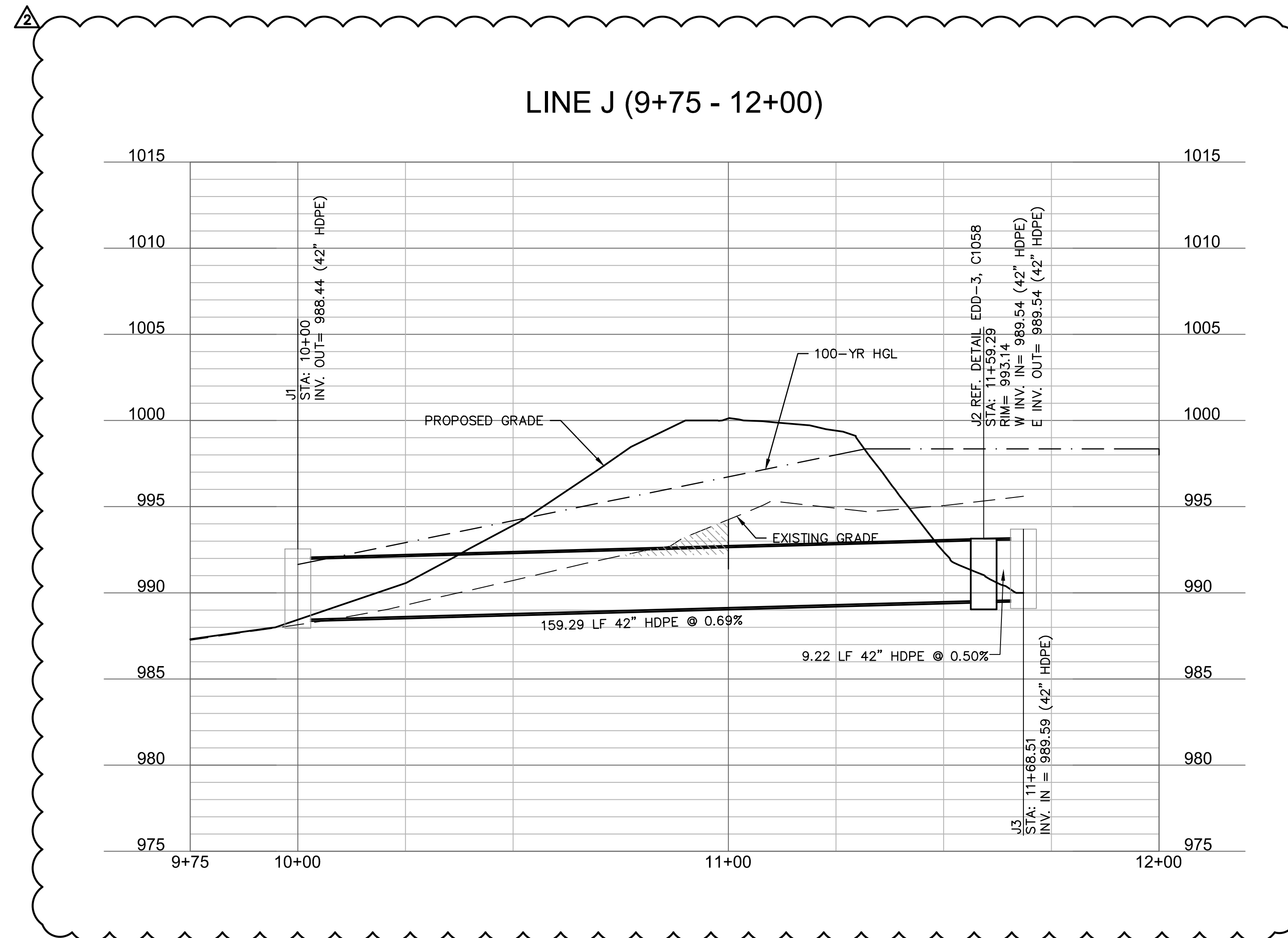
LEGEND



LINE H (9+75 - 11+25)



LINE J (9+75 - 12+00)



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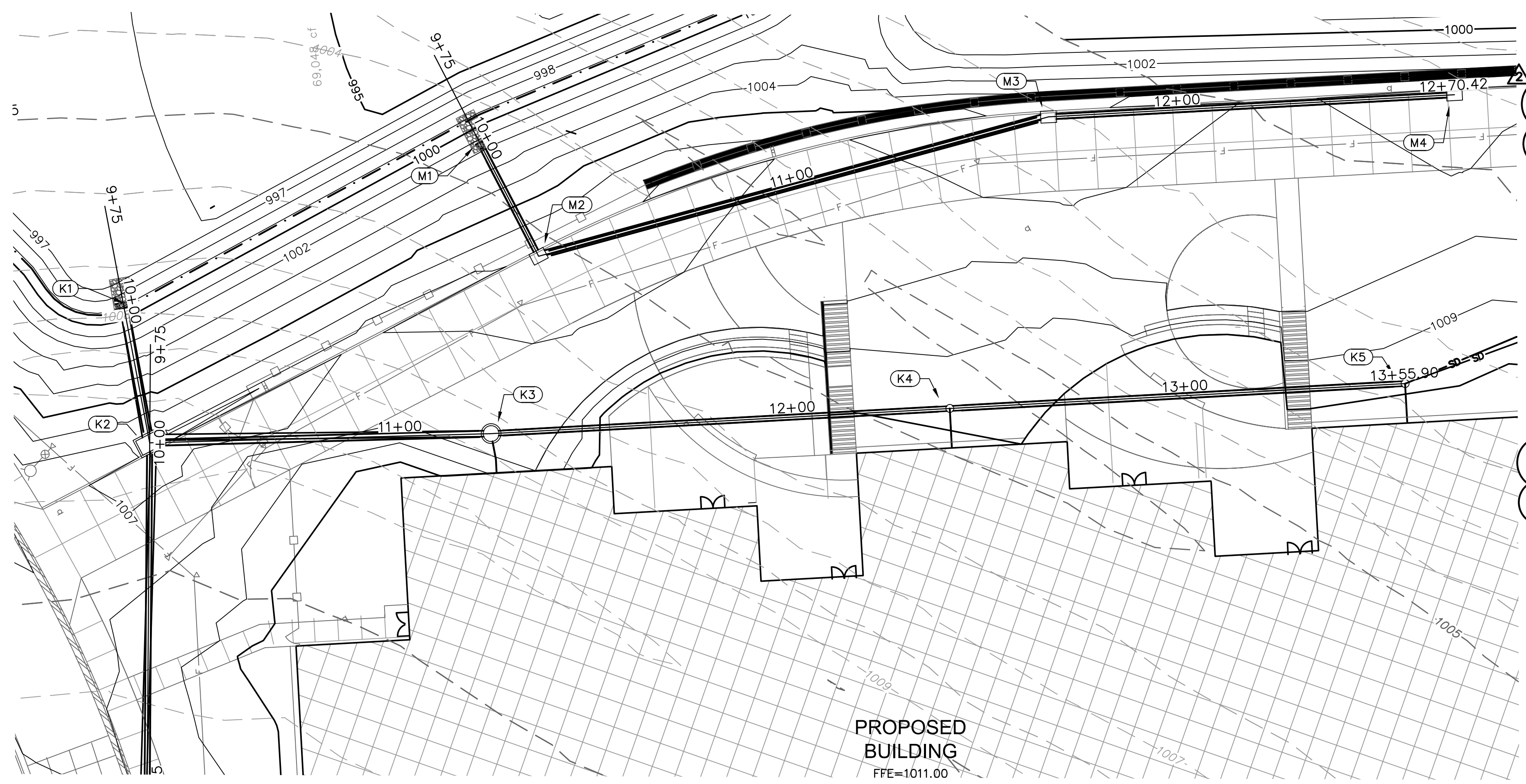
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 TERRY M. PARSONS
 NUMBER PE-291801888
 01/15/2022

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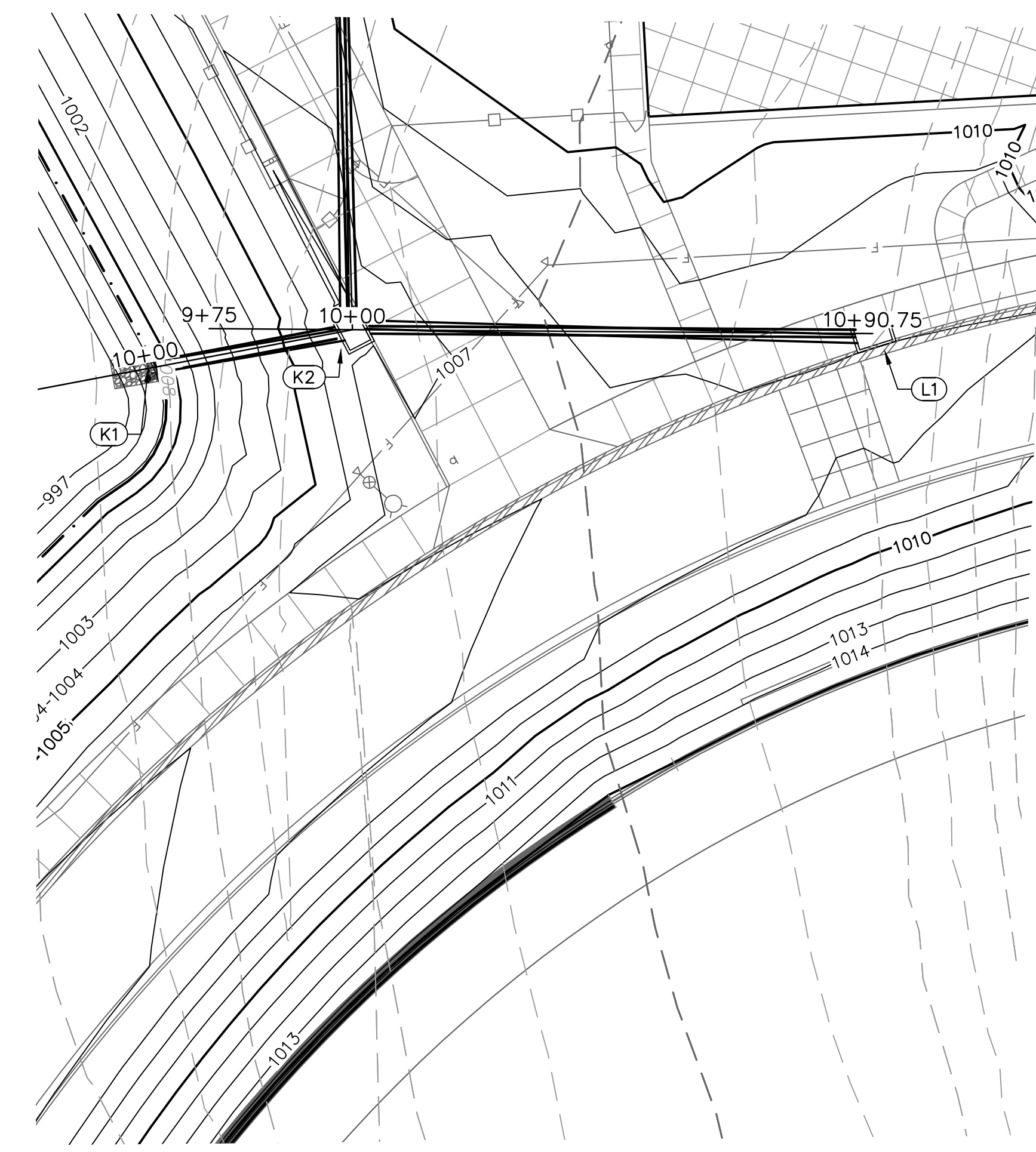
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13-20102-00
 STORM SEWER
 PLAN & PROFILE -
 LINE H AND J

C1044

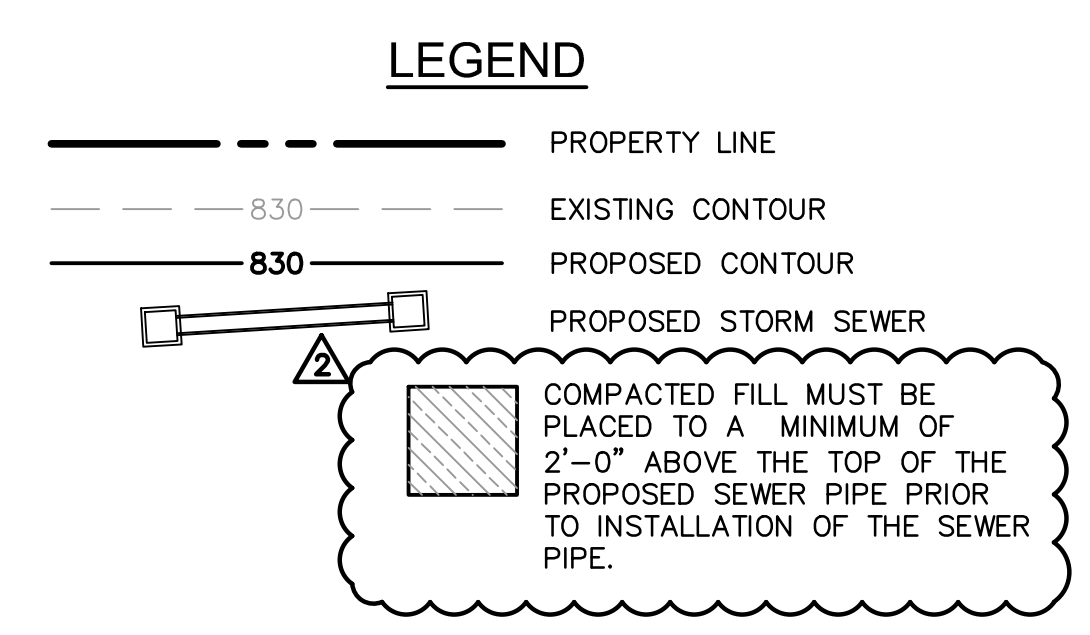


ID	DESCRIPTION
K1	INSTALL 24" DIA. END SECTION WITH CONCRETE TOEWALL 10+00, 0.00' LINE K RIM= 1002.08 INV IN = 999.50 (24" HP) N: 992644.388; E: 2832283.205
K2	INSTALL 6'X4' NON-SETBACK CURB INLET 10+36.25, 0.00' LINE K RIM= 1006.98 INV IN = 1000.36 (15" HDPE) INV IN = 999.86 (24" HP) N: 992641.229; E: 2832247.098
K3	INSTALL 5'X5' JUNCTION BOX 11+23.09, 0.00' LINE K RIM= 1007.79 INV IN = 1003.27 (15" HDPE) INV IN = 1003.47 (10" HDPE) INV OUT = 1002.97 (18" HDPE) N: 992554.618; E: 2832240.753
K4	INSTALL 5'X5' JUNCTION BOX 12+39.93, 0.00' LINE K RIM= 1009.74 INV IN = 1005.32 (15" HDPE) INV IN = 1005.52 (10" HDPE) INV OUT = 1005.02 (15" HDPE) N: 992637.898; E: 2832235.193
K5	INSTALL 2' DIA. NYLOPLAST BASIN WITH SOLID LID 13+55.90, 0.00' LINE K RIM= 1009.78 INV IN = 1006.98 (10" HDPE) INV OUT = 1006.48 (15" HDPE) N: 992322.041; E: 2832230.192

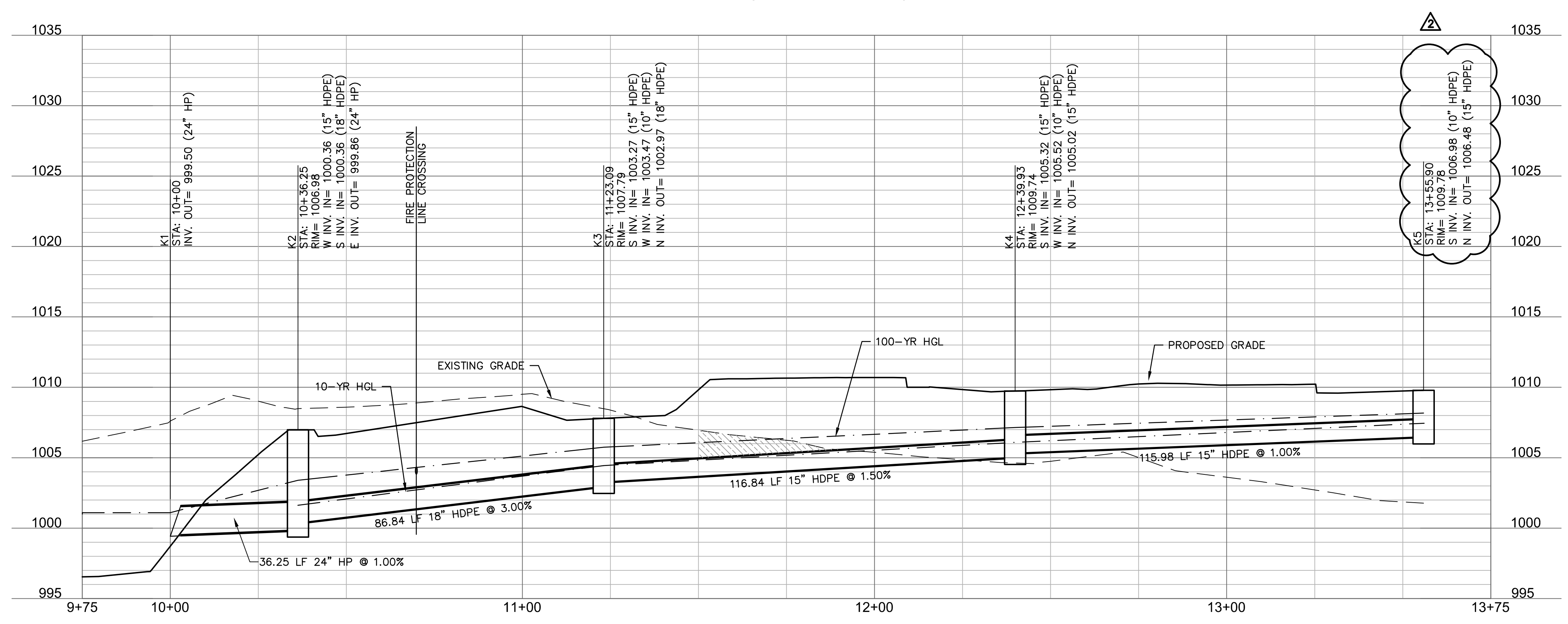


ID	DESCRIPTION
K2	INSTALL 6'X4' NON-SETBACK CURB INLET 10+36.25, 0.00' LINE K RIM= 1006.98 INV IN = 1000.36 (15" HDPE) INV IN = 999.86 (24" HP) N: 992641.229; E: 2832247.098
L1	INSTALL 6'X4' NON-SETBACK CURB INLET 10+90.75, 0.00' LINE L RIM= 1008.11 INV IN = 1003.92 (15" HDPE) N: 992650.972; E: 2832156.877

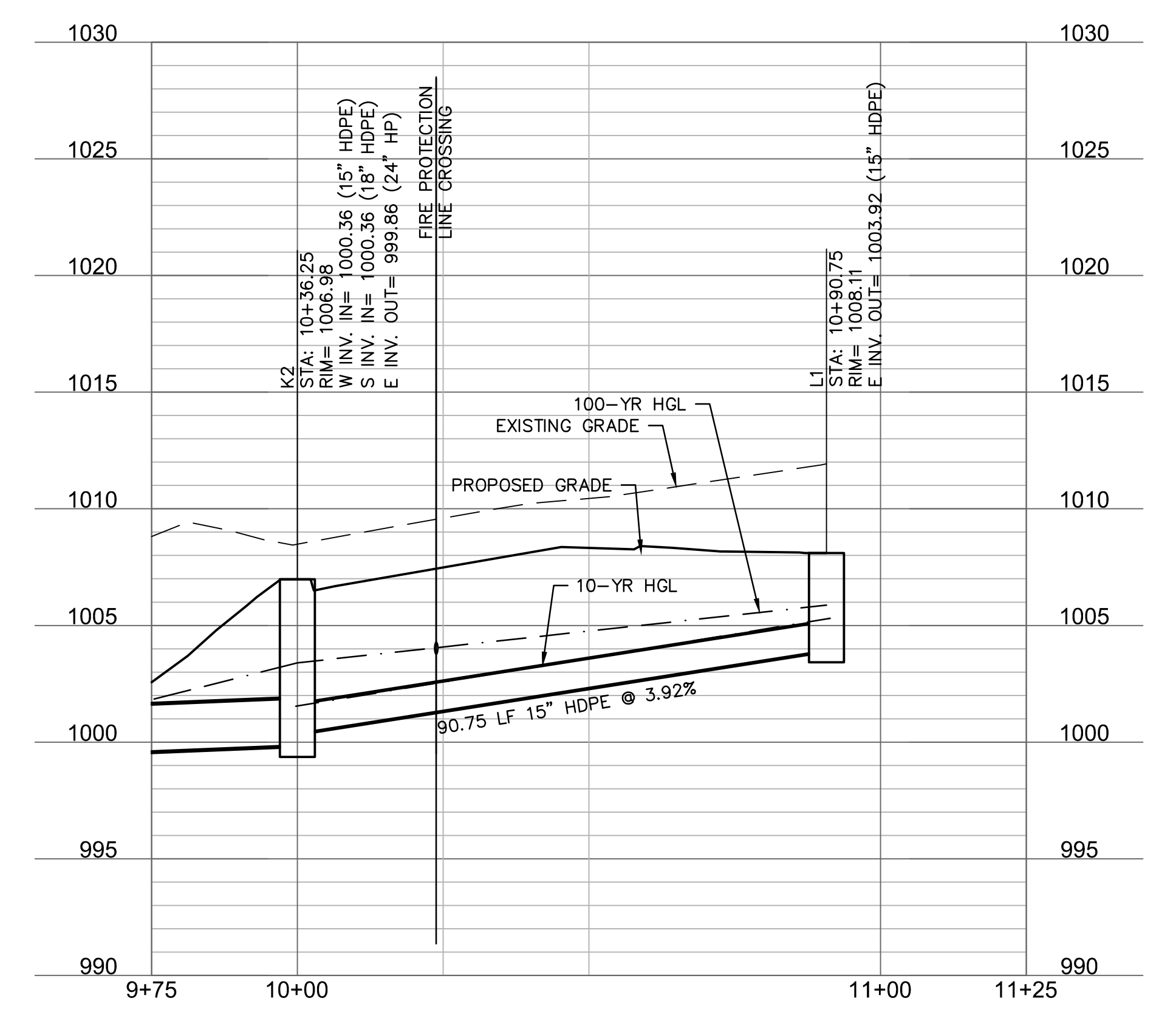
- NOTES:**
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LINE K (9+75 - 13+75)



LINE L (9+75 - 11+25)



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 NUMBER
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 01/15/2022

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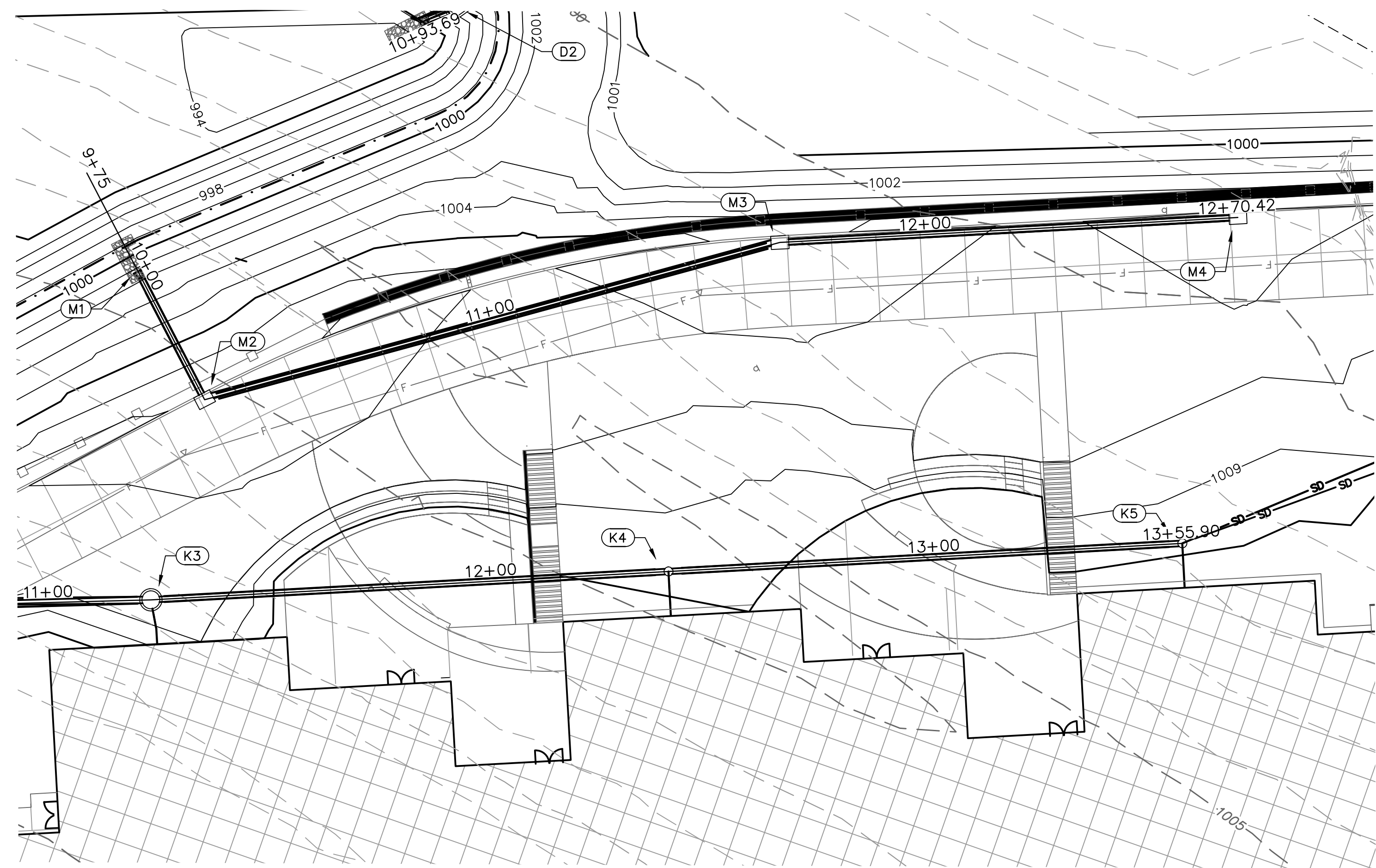
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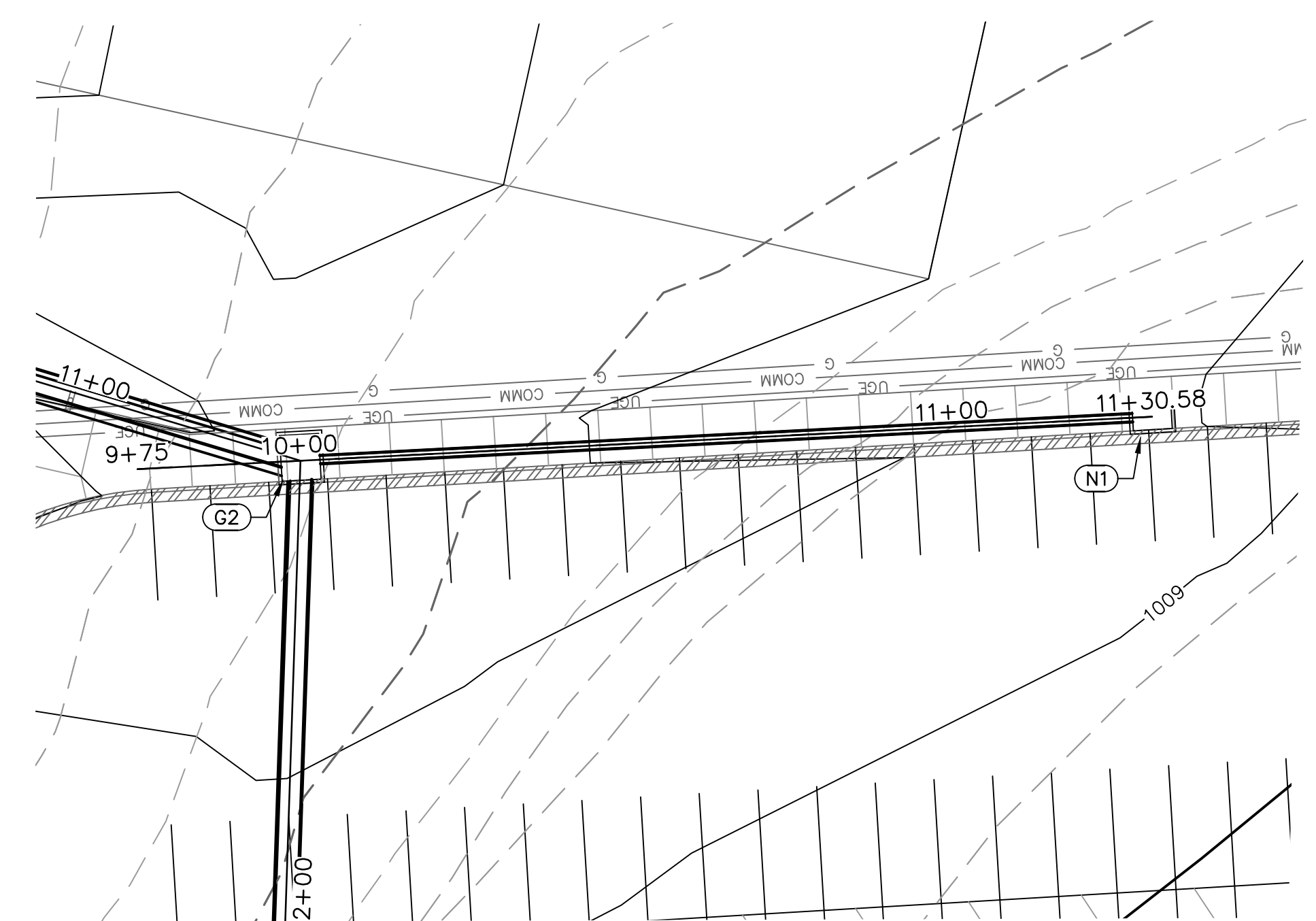
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STORM SEWER
 PLAN & PROFILE -
 LINE K AND L

C1045

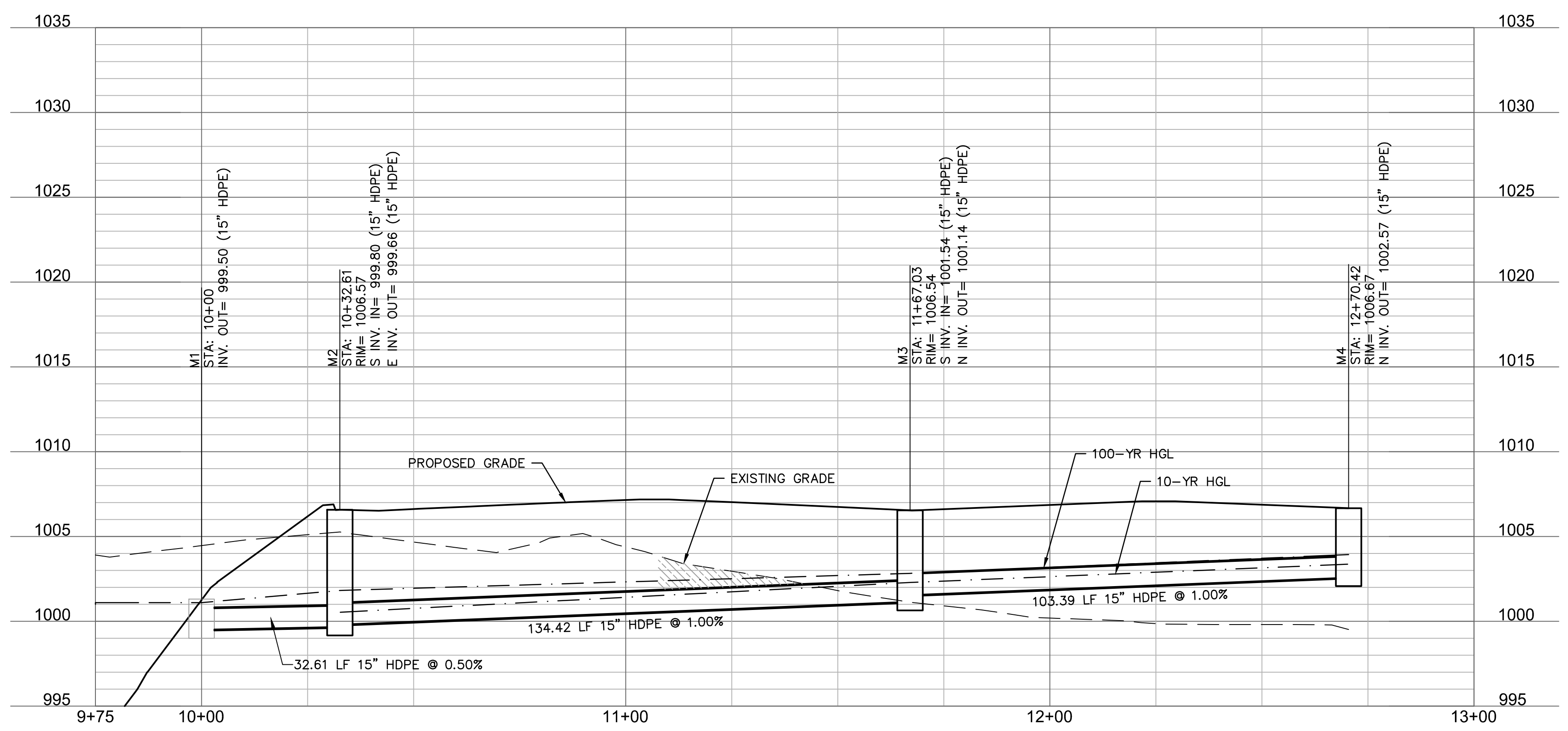


ID	DESCRIPTION
M1	INSTALL 24" DIA. END SECTION WITH CONCRETE TOEWALL AND 2.8 CY RIPRAP 10+00, 0.00' LINE M RIM = 1001.31 INV IN = 999.50 (15" HDPE) N: 992550.121; E: 2832314.726
M2	INSTALL 4'X3' NYLOPLAST CURB INLET 10+32.61, 0.00' LINE M RIM = 1006.57 INV IN = 999.80 (15" HDPE) INV OUT = 999.66 (15" HDPE) N: 992538.053; E: 2832284.431
M3	INSTALL 4'X3' NYLOPLAST CURB INLET 11+67.03, 0.00' LINE M RIM = 1006.54 INV IN = 1001.54 (15" HDPE) INV OUT = 1001.14 (15" HDPE) N: 992405.502; E: 2832306.749
M4	INSTALL 4'X3' NYLOPLAST CURB INLET 12+70.42, 0.00' LINE M RIM = 1006.67 INV OUT = 1002.57 (15" HDPE) N: 992302.216; E: 2832302.051

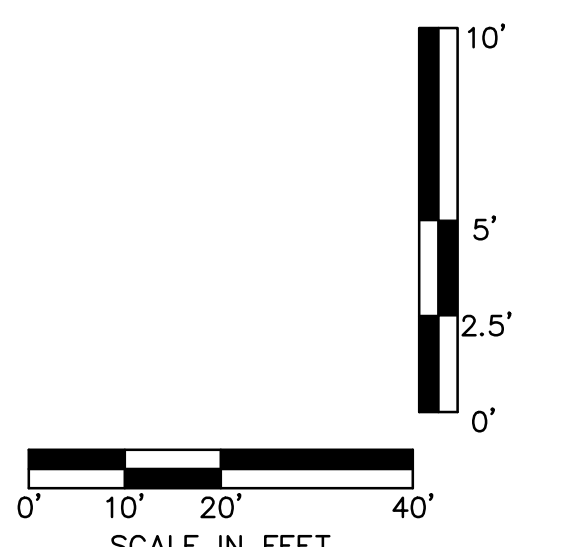
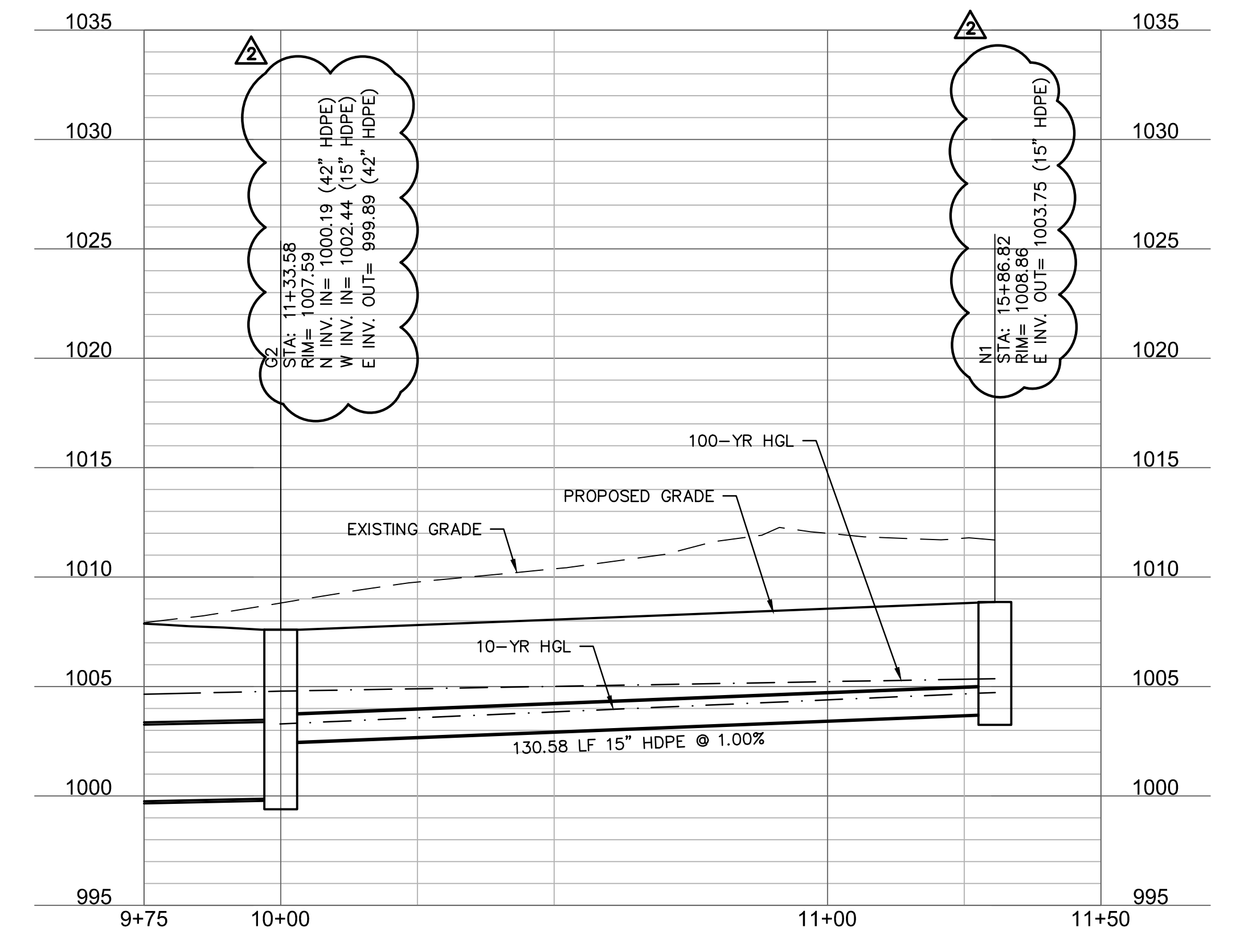


ID	DESCRIPTION
G2	INSTALL 7'X6' NON-SETBACK CURB INLET 11+33.58, 0.00' LINE G RIM = 1007.59 INV IN = 1000.19 (42" HDPE) INV IN = 1002.44 (15" HDPE) INV OUT = 999.89 (42" HDPE) N: 992050.220; E: 2831799.815
N1	INSTALL 6'X4' NON-SETBACK CURB INLET 15+86.82, 110.22' RT LINE E RIM = 1008.86 INV OUT = 1003.75 (15" HDPE) N: 992056.549; E: 2831669.386

LINE M (9+75 - 13+00)



LINE N (9+75 - 11+50)



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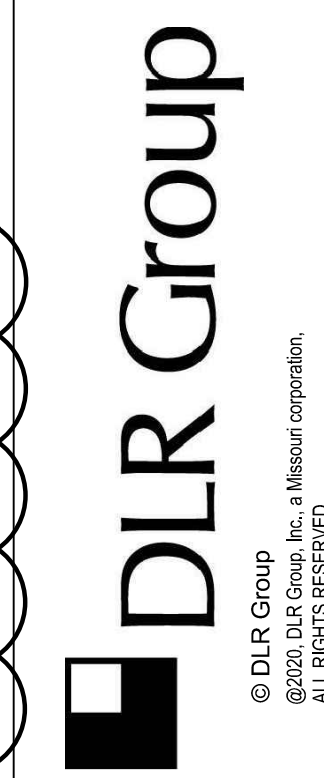
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STORM SEWER
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 LINE M AND N

C1046



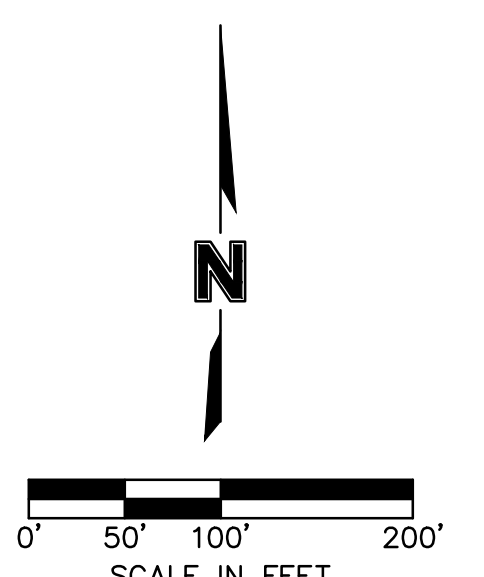
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STORM SEWER PIPE AND STRUCTURE TABLE

STRUCTURES		RUNOFF CALCULATIONS										PIPE DESIGN															Comments					
FROM	TO	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	C	KC (K-1.25)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	PIPE LENGTH (L.F.)	PIPE SLOPE (%)	PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT)	V FULL (FPS)	DESIGN V (FPS)	Hw/D	MH TOP ELEVATION	UPSTREAM FLOWLINE	DOWNSTREAM FLOWLINE	DOWNSTREAM WATER ELEVATION	FRICTION HEAD (ft)	ENTRY LOSS COEFFICIENT (K)	ACTUAL ENTRY LOSS (K)	ENTRY LOSS (h.m)		h+ h.m (FT)	HW INLET CONTROL	HW OUTLET CONTROL	HYDRAULIC GRADE ELEV	HYDRAULIC GRADE (MAX)
E1D.1		A6	0.35	0.90	1.00	5.0	0.85	10.32	3.61	Area Inlet	210.61	0.50	15	4.58	1.23	3.73	4.13	0.95	1016.21	1012.83	1011.78	1013.00	0.67	1.00	1.00	0.27	0.93	1014.02	1013.93	1014.02	1015.21	1.19
E1D.2		C7	0.15	0.85	1.00	5.0	0.46	10.32	1.55	Area Inlet	118.91	1.00	15	6.48	1.23	5.28	4.33	0.72	1016.91	1011.68	1010.49	1011.15	0.07	1.00	1.00	0.29	0.36	1012.58	1011.68	1012.58	1015.91	3.33
E1D.3		E11	0.13	0.45	0.56	5.0	0.87	10.32	0.75	Area Inlet	212.64	1.50	15	7.93	1.23	6.46	4.08	0.68	1027.14	1019.84	1016.65	1017.08	0.03	1.00	1.00	0.26	0.29	1020.69	1019.84	1020.69	1026.14	5.45

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 CALCULATIONS - 10
 YEAR

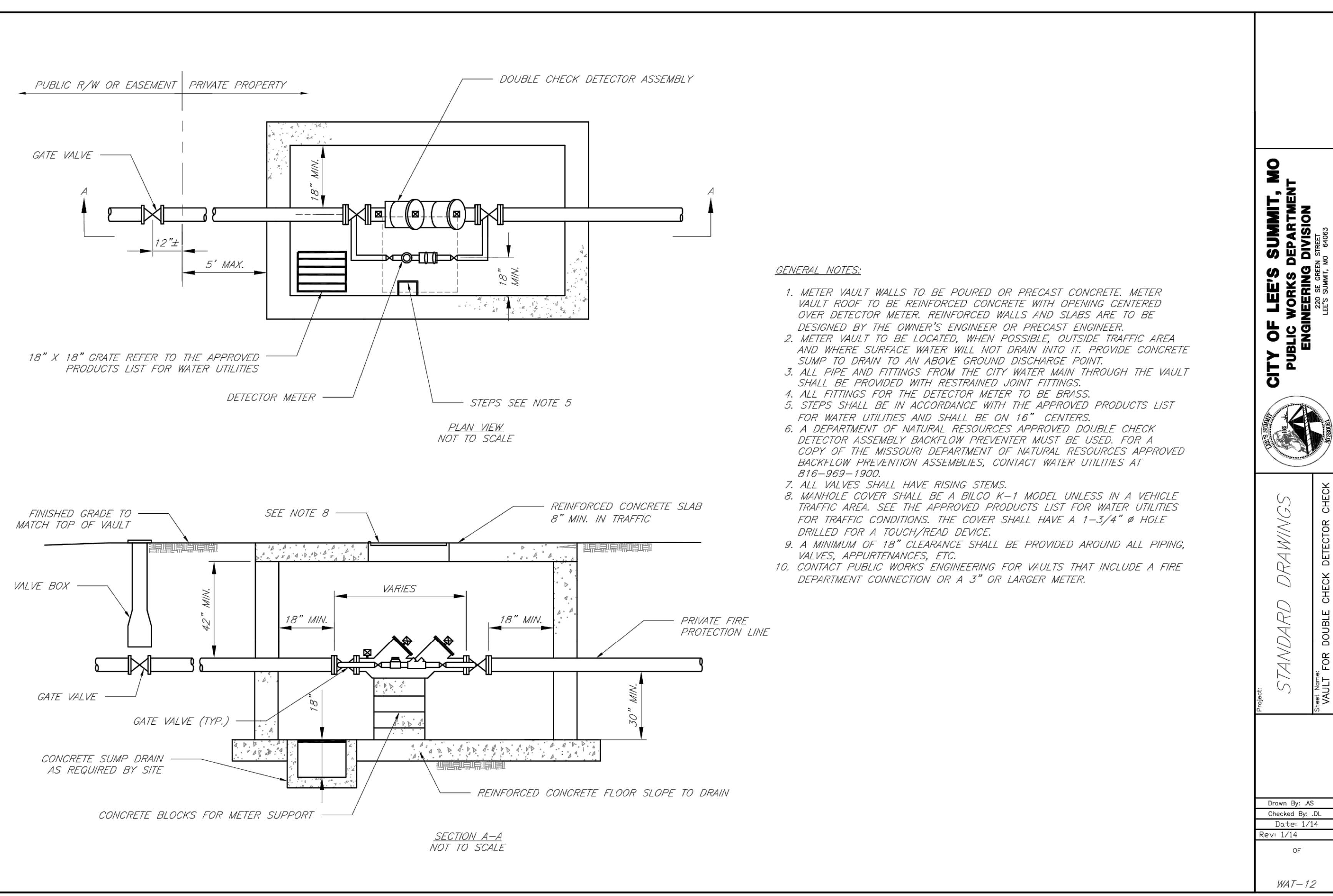
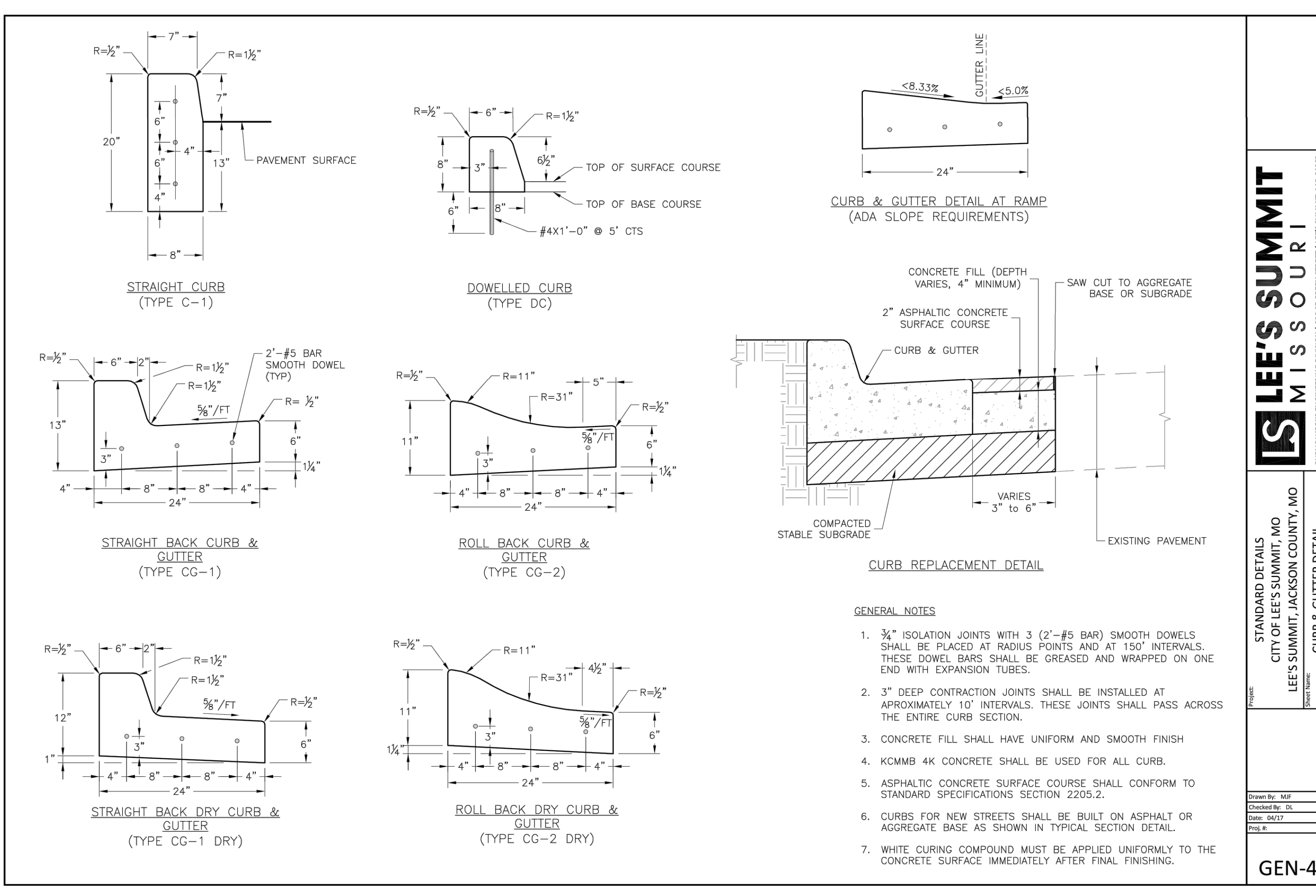
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STORM SEWER PIPE AND STRUCTURE TABLE

TITLE: LSMS #4
JOB # 020-0103
DESIGN CONDITIONS: PRIVATE - 10 YEAR STORM EVENT

RUNOFF CALCULATIONS										PIPE DESIGN															Comments										
STRUCTURES	FROM	TO	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	C	KC (K=1.25)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	PIPE LENGTH (L.F.)	PIPE SLOPE (%)	PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT.)	V FULL (F/S)	DESIGN V (F/S)	HWID	MH TOP ELEVATION	UPSTREAM FLOWLINE	DOWNSTREAM FLOWLINE	DOWNSTREAM WATER ELEVATION	FRICITION HEAD (Hf)	ENTRY LOSS COEFFICIENT (K)	ACTUAL ENTRY LOSS (K)	ENTRY LOSS (Hm)	h f + h m (FT)	HW INLET CONTROL	HW OUTLET CONTROL	PIPE CROWN	PIPE CROWN - HGL	HYDRAULIC GRADE ELEV.	HYDRAULIC GRADE (MAX)	Comments
E101	A6	A5	0.35	0.90	0.90	5.0		0.94	7.35	2.32	Area Inlet	210.61	0.50	15	4.58	1.23	3.73	3.74	0.78	1016.21	1012.83	1011.78	1012.71	0.27	1.00	1.00	0.22	0.49	1013.81	1013.20	1014.08	0.27	1013.81	1015.21	
	A5	A4	0.15	0.45	0.45	5.0		0.95	7.35	3.04	Area Inlet	228.76	0.50	18	7.45	1.77	4.21	4.00	0.75	1015.02	1011.48	1010.34	1011.34	0.19	0.30	0.30	0.07	0.27	1012.80	1011.60	1012.98	0.38	1012.60	1014.02	
	A4	A3	0.39	0.90	0.90	5.0		0.46	6.81	4.49	Area Inlet	119.51	0.50	24	16.04	3.14	5.11	4.37	0.71	1015.00	1010.04	1009.44	1010.53	0.05	0.20	0.20	0.06	0.11	1011.46	1010.64	1011.14	0.54	1010.59	1016.13	
	A3	A2	0.27	0.80	0.80	5.0		0.44	6.69	5.36	Area Inlet	120.29	0.50	24	16.04	3.14	5.11	4.59	0.73	1017.13	1006.14	1008.54	1009.74	0.07	0.20	0.20	0.07	0.13	1010.59	1009.88	1011.24	0.09	1010.15	1014.66	
	A2	A1	0.05	1.21	0.69	5.0		0.12	6.58	5.50	Area Inlet	33.37	0.50	24	16.04	3.14	5.11	4.62	0.73	1015.66	1008.24	1008.07	1010.30	0.02	0.15	0.20	0.07	0.09	1009.70	1010.15	1010.24	0.09	1010.15	1014.66	
E102	C7	C6	0.15	0.85	0.85	5.0		0.53	7.35	0.94	Area Inlet	118.91	1.00	15	6.48	1.23	5.28	3.76	0.69	1016.91	1011.68	1010.49	1011.00	0.03	1.00	1.00	0.22	0.24	1012.54	1011.68	1012.93	0.39	1012.54	1015.91	
	C6	C5	0.10	0.80	0.80	5.0		0.50	7.35	1.19	Area Inlet	189.11	3.00	15	11.22	1.23	9.14	6.36	0.72	1015.56	1010.19	1004.52	1005.07	0.10	0.20	0.20	0.13	0.23	1011.09	1010.19	1011.44	0.35	1011.09	1014.56	
	C5	C4	0.24	0.45	0.45	5.0		0.11	7.35	5.00	Area Inlet	60.46	3.00	15	11.22	1.23	9.14	8.97	1.20	1010.82	1004.22	1002.41	1003.45	0.37	0.40	0.40	0.49	0.86	1005.72	1004.30	1005.85	0.13	1005.72	1009.82	ADD LINE CC
	C4	C3	0.52	0.52	0.52	5.0		0.34	7.35	6.61	Area Inlet	128.71	1.00	24	22.68	3.14	7.22	6.25	0.76	1006.89	1002.11	1000.82	1002.02	0.11	0.30	0.30	0.18	0.29	1003.63	1002.31	1002.09	0.15	1001.94	1003.39	
	C3	C2	0.60	2.41	0.40	5.0		0.29	6.92	7.67	Area Inlet	86.50	0.50	24	16.04	3.14	5.11	5.04	0.79	1004.39	1000.09	1000.29	1001.76	0.10	0.15	0.20	0.08	0.18	1001.67	1001.94	1001.79	0.34	1001.46	1004.42	
	C2	C1	0.56	2.97	0.40	5.0		0.19	6.85	8.95	Area Inlet	58.52	0.50	24	16.04	3.14	5.11	5.23	0.83	1005.42	999.79	999.50	1000.30	0.09	0.30	0.30	0.13	0.22	1001.46	1000.52	1001.79	0.34	1001.46	1004.42	
	CC2	CC1	0.50	0.45	0.45	5.0		0.67	7.35	1.65	15 in. HDPE	176.95	1.00	15	6.48	1.23	5.28	4.42	0.73	1012.74	1007.62	1005.85	1006.54	0.12	1.00	1.00	0.30	0.42	1008.53	1007.62	1008.87	0.34	1008.53	1011.24	
	CC1	C4	0.30	0.80	0.49	5.0		0.51	7.35	2.80	15 in. HDPE	179.24	1.50	15	7.93	1.23	6.48	5.91	0.84	1009.66	1005.55	1002.86	1003.83	0.34	0.30	0.30	0.16	0.50	1006.60	1005.55	1006.80	0.20	1006.60	1008.16	
	M4	M3	0.28	0.52	0.52	5.0		0.44	7.35	1.07	15 in. HDPE	103.39	1.00	15	6.48	1.23	5.28	3.91	0.69	1006.67	1002.57	1001.54	1002.09	0.03	1.00	1.00	0.24	0.27	1003.44	1002.57	1003.82	0.38	1003.44	1005.67	
	M3	M2	0.23	0.55	0.55	5.0		0.48	7.35	1.95	15 in. HDPE	134.42	1.00	15	6.48	1.23	5.28	4.62	0.75	1006.54	1001.14	999.80	1000.55	0.12	0.30	0.30	0.10	0.22	1002.08	1001.14	1002.39	0.31	1002.08	1005.54	
	M2	M1	0.20	0.55	0.55	5.0		0.11	7.35	2.71	15 in. HDPE	32.61	1.00	15	6.48	1.23	5.28	5.05	0.83	1006.57	999.66	999.34	1000.30	0.06	0.40	0.40	0.16	0.22	1000.69	1000.52	1000.91	0.22	1000.69	1005.57	
	K3	K2	0.76	0.90	0.90	5.0		0.14	7.35	8.76	18 in. HDPE	86.84	3.00	18	18.24	1.77	10.32	10.20	1.32	1007.92	1002.97	1000.36	1001.67	0.61	1.00	1.00	1.62	2.23	1004.32	1003.89	1004.47	0.15	1004.32	1006.92	ADD LINE L
K2	K1	0.18	0.78	0.78	5.0		0.09	7.35	9.79	24 in. HDPE	36.25	1.00	24	22.68	3.14	7.22	6.94	0.86	1007.02	999.86	999.50	1000.30	0.07	0.40	0.40	0.30	0.37	1001.59	1000.67	1001.86	0.27	1001.59	1006.02		
L1	K2	1.33	0.38	0.38	5.0		0.17	7.35	3.72	18 in. HDPE	90.75	3.92	18	20.85	1.77	11.80	8.90	0.79	1007.92	1003.92	1000.36	1001.59	0.11	1.00	1.00	1.23	1.35	1005.10	1003.92	1005.42	0.32	1005.10	1006.92		
E103	E11	E10	0.13	0.45	0.45	5.0		1.02	7.35	0.43	Area Inlet	212.64	1.50	15	7.93	1.23	6.48	3.47	0.67	1027.14	1019.84	1016.65	1016.97	0.01	1.00	1.00	0.19	0.20	1020.68	1019.84	1021.09	0.41	1020.68	1026.14	
	E10	E9	0.54	0.41	0.41	5.0		0.43	7.35	1.97	Area Inlet	138.26	1.50	15	7.93	1.23	6.48	5.37	0.75	1025.31	1016.35	1014.30	1015.00	0.13	0.30	0.30	0.13	0.27	1017.29	1016.35	1017.80	0.31	1017.29	1024.31	
	E9	E8	0.70	0.67	0.42	5.0		0.20	6.93	6.65	Area Inlet	87.11	1.50	24	27.78	3.14	8.84	7.25	0.76	1023.55	1014.00	1012.69	1013.81	0.08	0.40	0.40	0.33	0.40	1015.52	1014.22	1014.38	0.20	1014.16	1018.97	
	E8	E7	1.23	2.60	0.80	5.0		0.56	6.88	10.64	Area Inlet	248.71	1.10	24	23.79	3.14	7.57	7.35	0.90	1019.97	1012.36	1009.62	1011.14	0.55	0.20	0.20	0.17	0.72	1014.16	1012.36	1011.82	0.56	1011.26	1018.91	
	E7	E6	0.85	0.41	0.41	5.0		1.01	7.35	12.58	30 in. RCP	390.98	0.70	30	34.41	4.91	7.01	6.45	0.77	1019.91	1009.32	1006.58	1008.22	0.37	0.20	0.20	0.13	0.50	1011.26	1009.32	1008.78	0.49	1008.29	1015.91	
	E6	E5	0.82	3.45	0.54	5.0		0.56	6.48	14.13	30 in. RCP	224.24	0.70	30	34.41	4.91	7.01	6.65	0.80	1016.91	1006.28	1004.71	1006.46	0.27	0.20	0.20	0.14	0.41	1008.29	1006.87	1006.94	0.45	1006.49	1014.36	
	E5	E4	0.47	0.45	0.45	5.0		0.63	6.34	15.10	30 in. RCP	291.35	1.00	30	41.13	4.91	8.38	7.72	0.82	1015.36	1004.44	1001.53	1003.23	0.40	0.20	0.20	0.19	0.58	1006.49	1004.44	1003.99	0.81	1002.58	1009.01	
	E4	E3	0.16	0.43	0.43	5.0		0.54	6.20	15.16	36 in. RCP	192.68	0.50	36	47.29	7.07	6.69	5.95	0.73	1010.01	1000.39	999.43	1001.22	0.10	0.20	0.20	0.11	0.21	1002.58	1001.43	1002.13	0.78	1001.35	1005.10	
	E3	E2	0.55	0.42	0.42	5.0		0.32	6.09	16.28	36 in. RCP	117.67	0.50	36	47.29	7.07	6.69	6.06	0.74	1006.10	999.13	998.54	1000.40	0.07	0.20	0.20	0.11	0.18	1001.35	1000.58	1002.14	0.67	1001.47	1003.92	
	E2	E1	0.31	5.76	0.58	5.0		0.64	6.02	20.18	36 in. RCP	247.67	0.50	36	47.29	7.07	6.69	6.41	0.78	1004.82	999.14	997.00	997.40	0.23	0.20	0.20	0.13	0.36	1001.47	999.14	1001.79	0.34	1001.47	1003.92	
	H1	G2	0.84	0.38	0.38	5.0		0.16	7.35	2.35	18 in. HDPE	81.63	5.28	18	24.20	1.77	13.70	8.67	0.72	1010.25	1005.56	1001.25	1001.86	0.04	1.00	1.00	1.17	1.21	1006.64	1005.56	1007.06	0.42	1006.64	1009.25	
	E104	F8	F7	1.02	0.85	0.85	5.0		0.31	7.35	4.86	Area Inlet	82.70	0.50	24	16.04	3.14	5.11	4.47	0.72	1007.41	1003.49	1003.08	1004.23	0.04	1.00	1.00	0.31	0.35	1004.93	1004.58	1005.49	0.56	1004.93	1006.41
F7		F6	0.00	0.00	0.00	5.0		0.54	7.35	4.81	Area Inlet	144.58	0.50	24	16.04	3.14	5.11	4.46	0.72	1006.55	1002.78	1002.06	1003.20	0.07	0.40	0.40	0.12	0.19	1004.21	1003.39	1004.78				

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LEE'S SUMMIT MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 2201 SE GREEN STREET | LEE'S SUMMIT, MO 64083

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO

CURB & GUTTER DETAIL

Drawn by: MAF
 Checked by: IK
 Date: 06/10/21
 Scale: 1/8" = 1'-0"

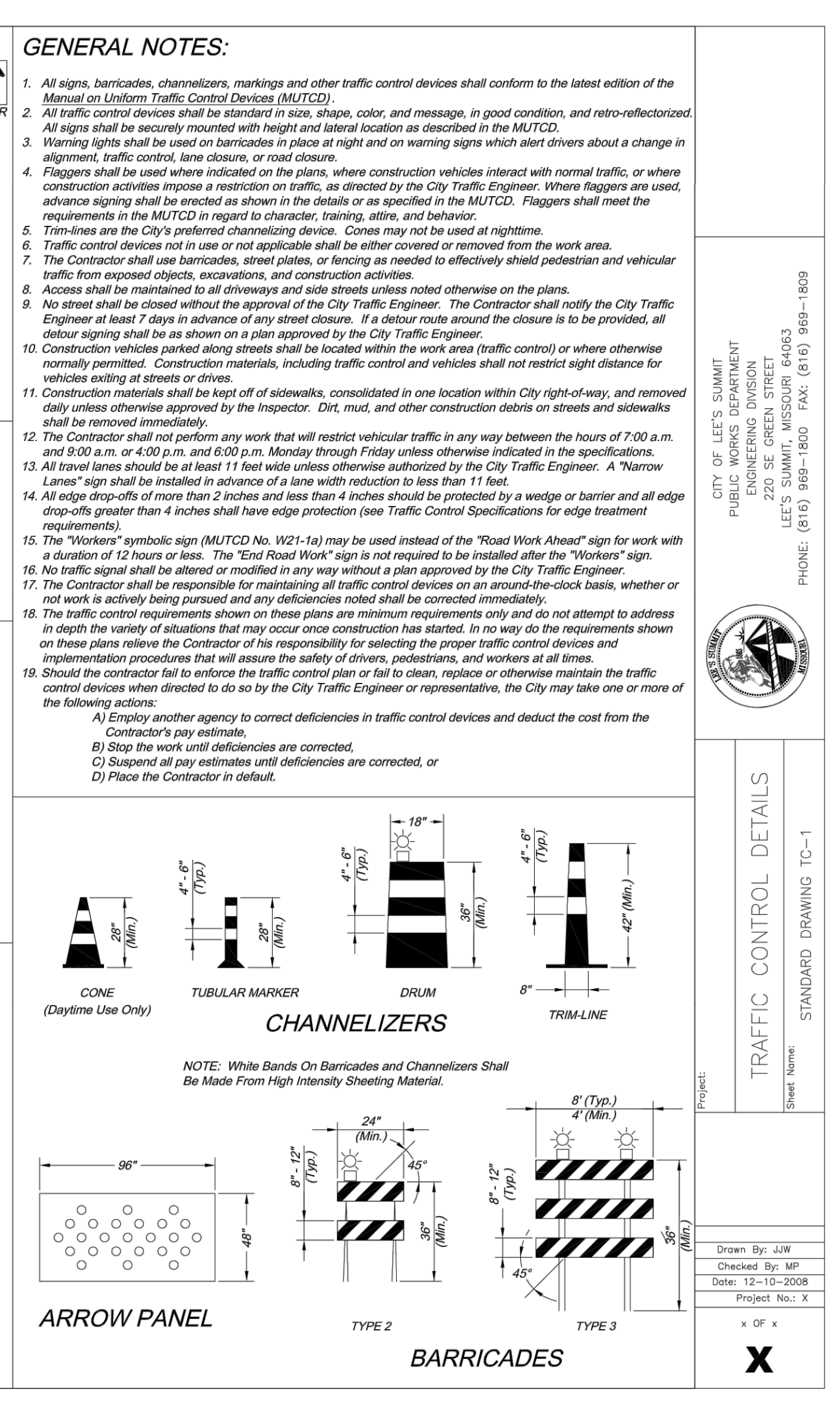
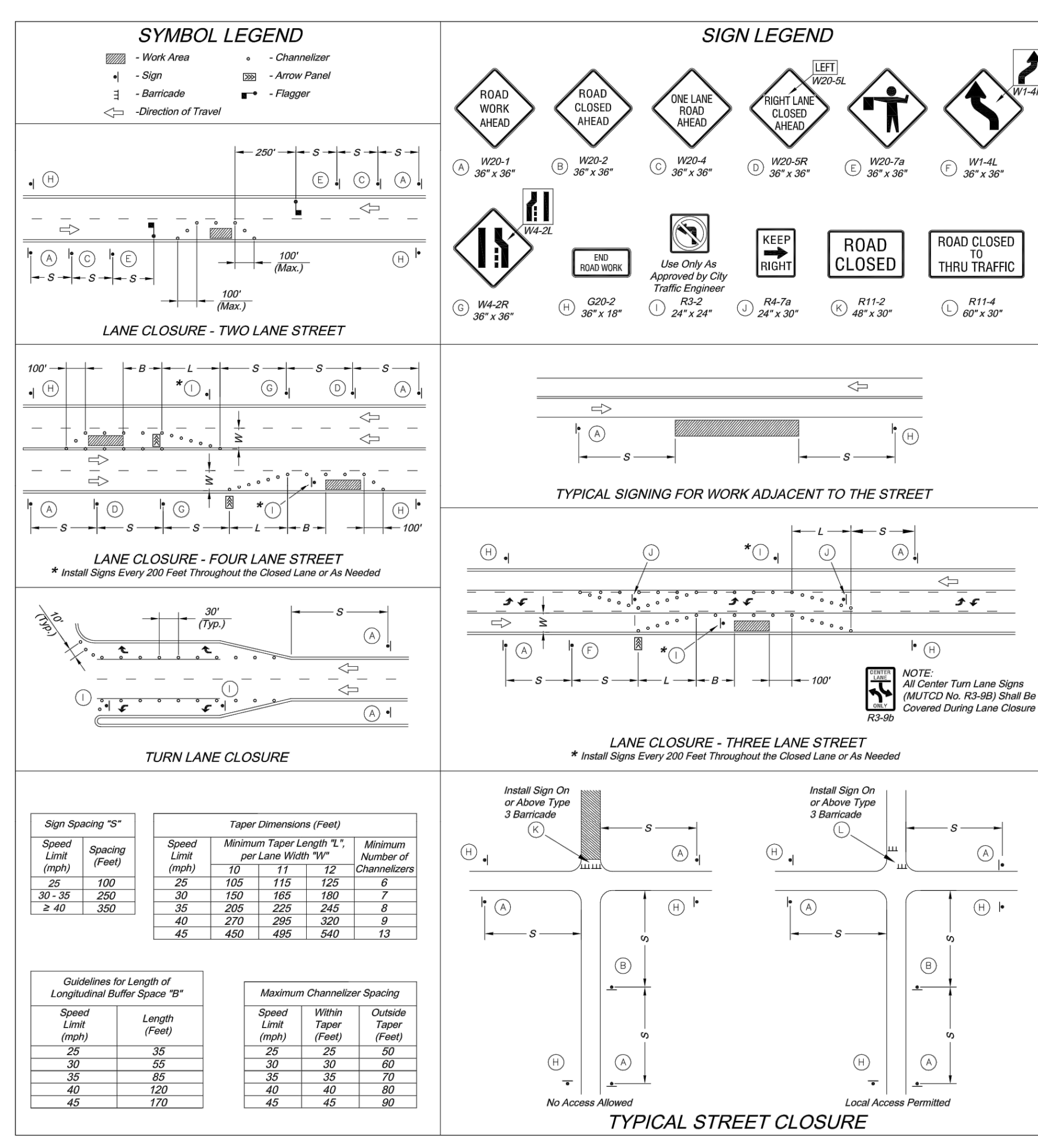
GEN-4

CITY OF LEE'S SUMMIT, MO PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

STANDARD DRAWINGS
 VAULT FOR DOUBLE CHECK DETECTOR CHECK

Drawn By: AJL
 Checked By: IK
 Date: 7/24
 Rev: 1/21

WAT-12



DLR Group

6 DLR Group
 80200 DLR Center, Inc. - Missouri Corporation
 Missouri State Certificate of Authority #00399

olsson

OLSSON - CIVIL ENGINEERING
 MISSOURI PROFESSIONAL ENGINEER
 MISSOURI PROFESSIONAL ENGINEER
 LICENSE NUMBER
 PE-201801858
 01/18/2020

TRAFFIC CONTROL DETAILS
 STANDARD DRAWING TC-1

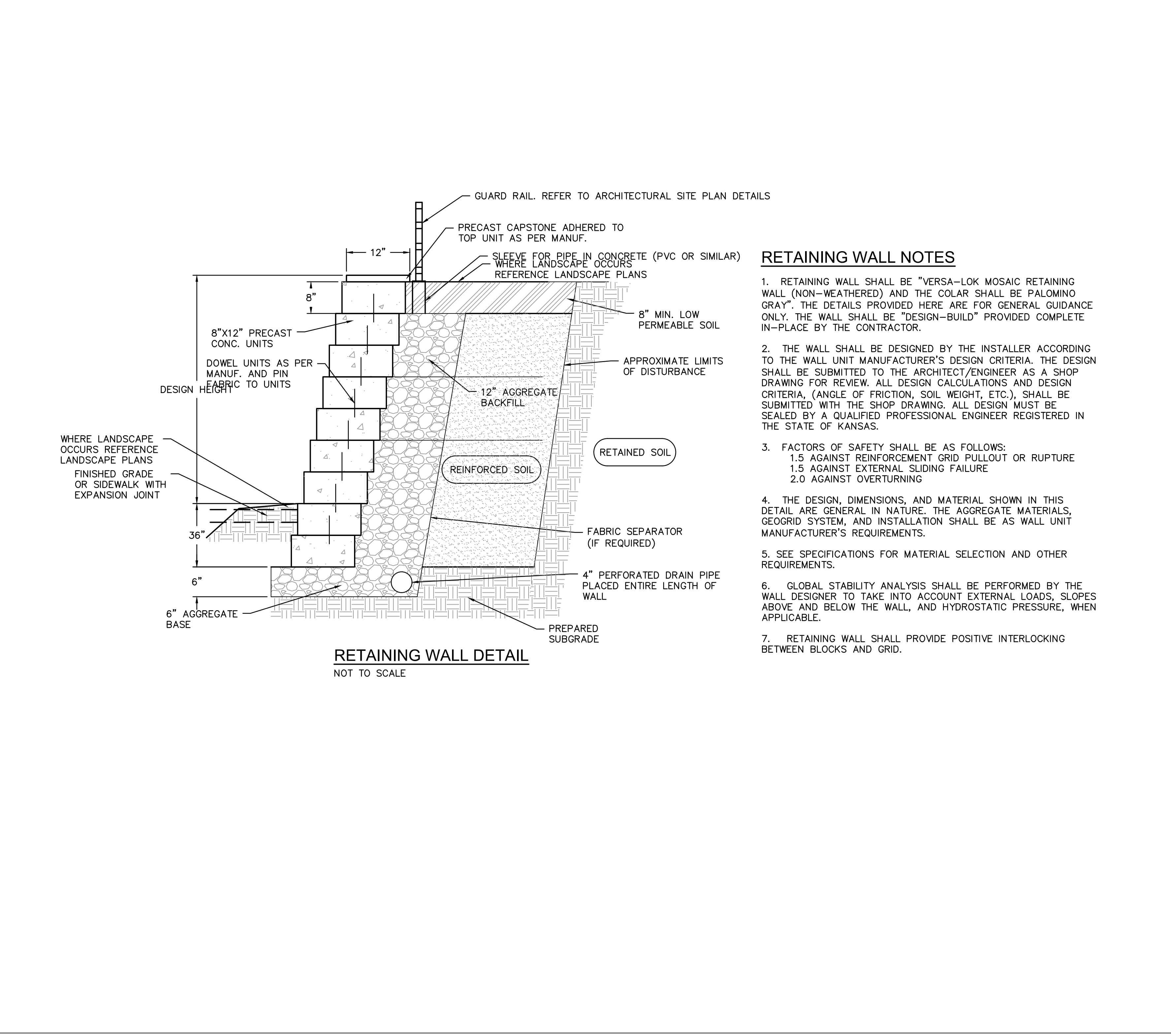
Drawn By: JMB
 Checked By: MP
 Date: 12-11-2018
 Project No.: 2
 Scale: 1/8" = 1'-0"

CITY OF LEE'S SUMMIT, MO PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

STANDARD DRAWINGS
 VAULT FOR DOUBLE CHECK DETECTOR CHECK

Drawn By: AJL
 Checked By: IK
 Date: 7/24
 Rev: 1/21

WAT-12



LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

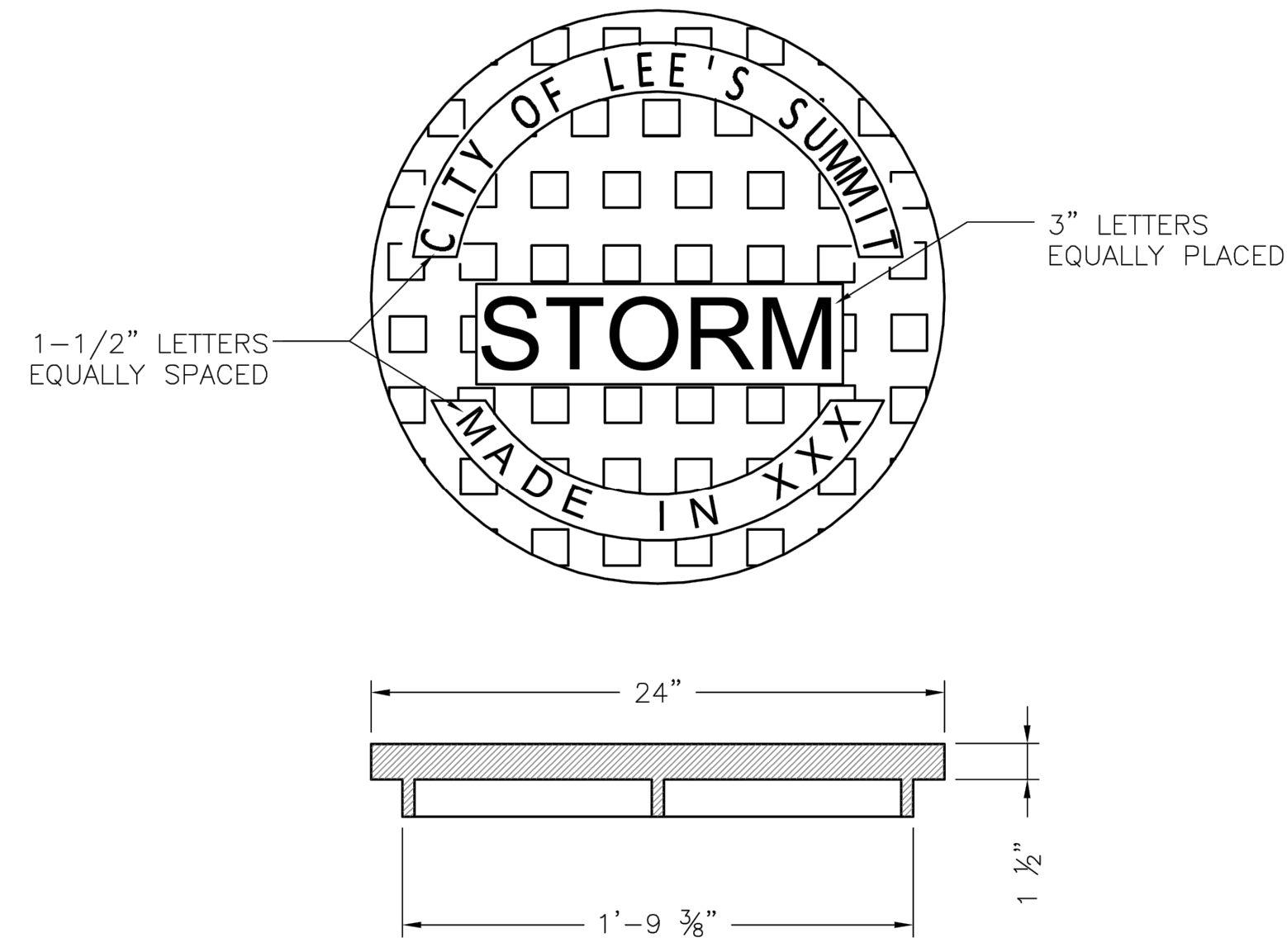
1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081

PACKAGE 2 -
 STRUCTURAL & SITE
 UTILITIES
 ISSUED FOR PERMIT
 08/28/20

13-20102-00

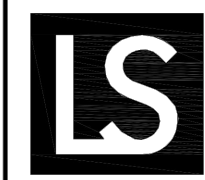
STANDARD DETAILS

C1052



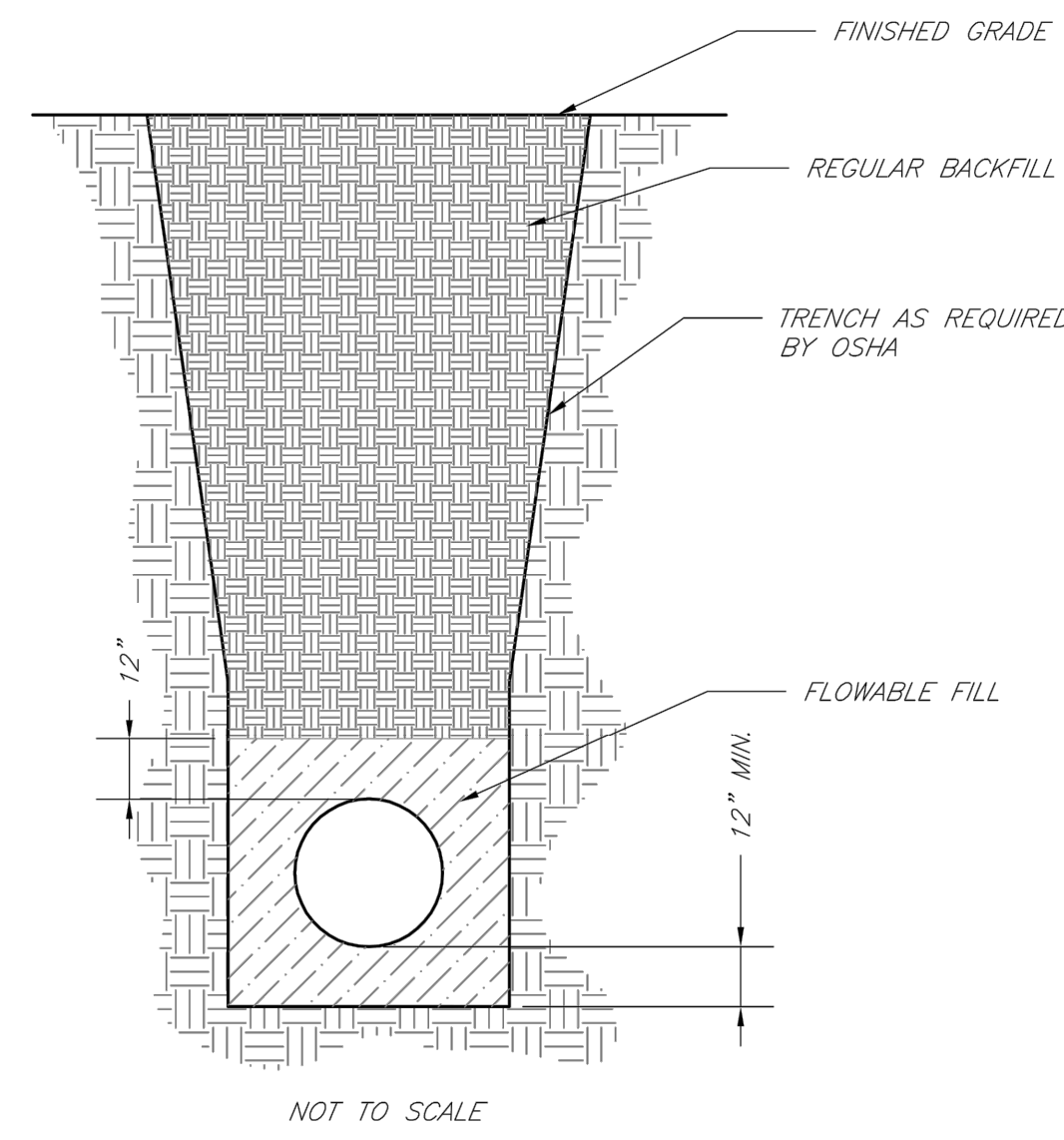
STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCT LIST.



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 04/17
Drawn By: MIF
Checked By: DL
STM-6

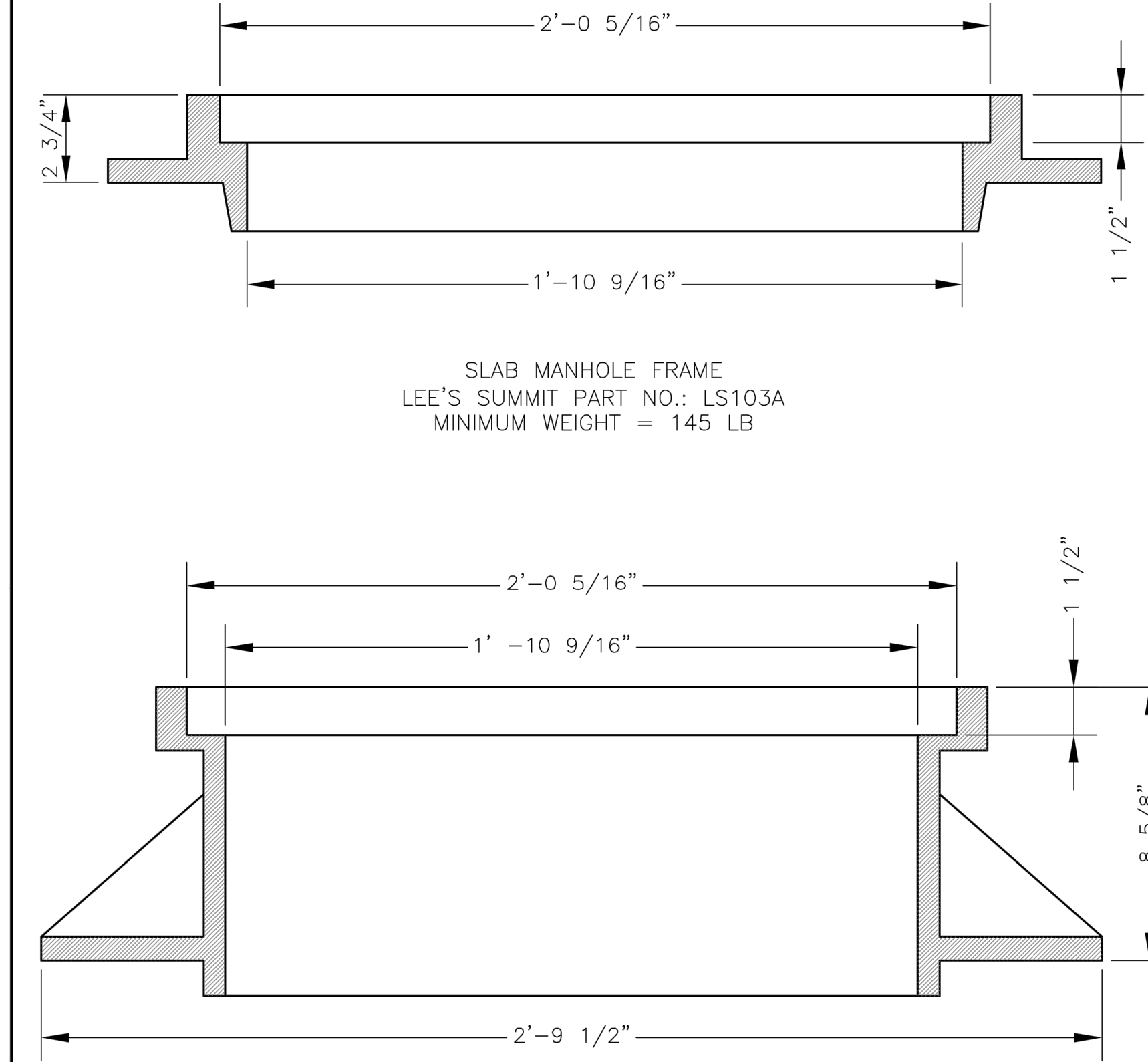


- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
 2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
 3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
 4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-6
Rev: 1/14
Rev:
GEN-7



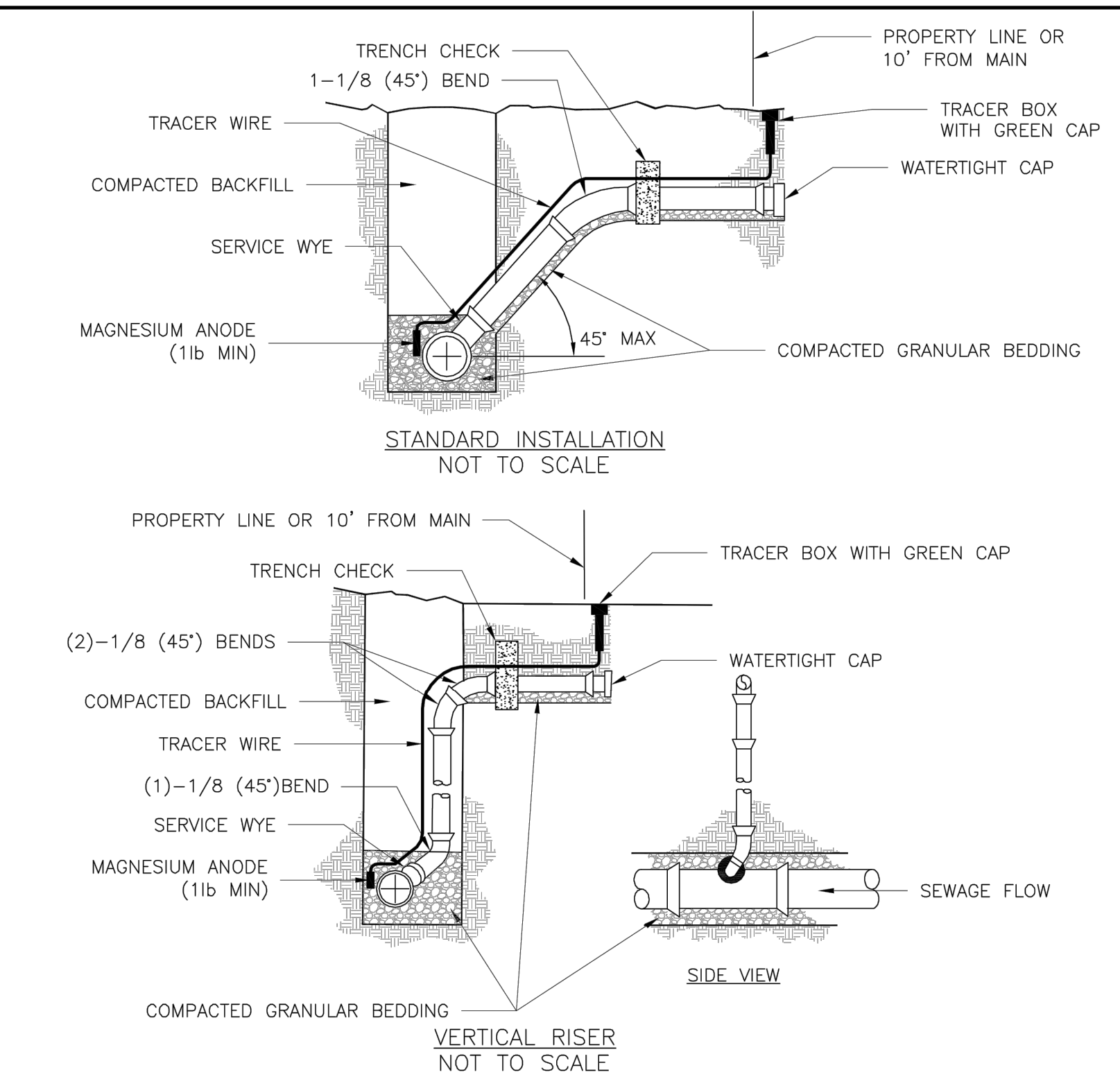
STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCTS LIST.



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 04/17
Drawn By: MIF
Checked By: DL
STM-7

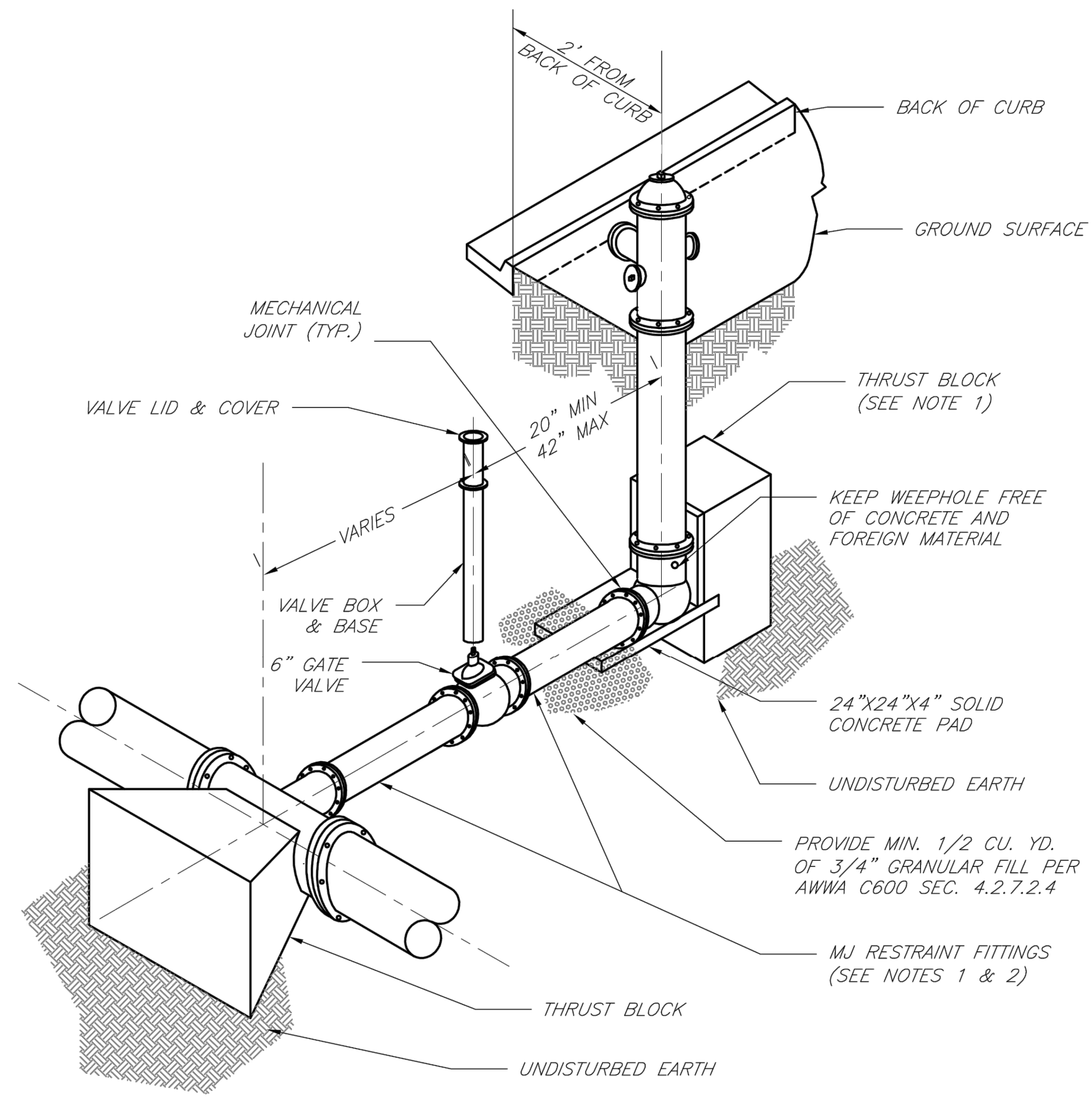


- NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN, WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
 2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 30" ABOVE GROUND AND PAINTED GREEN.
 3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
 4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
 5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
 6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
 7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
 8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1' OF PROPERTY LINE.
 9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 04/17
Drawn By: MIF
Checked By: DL
SAN-1

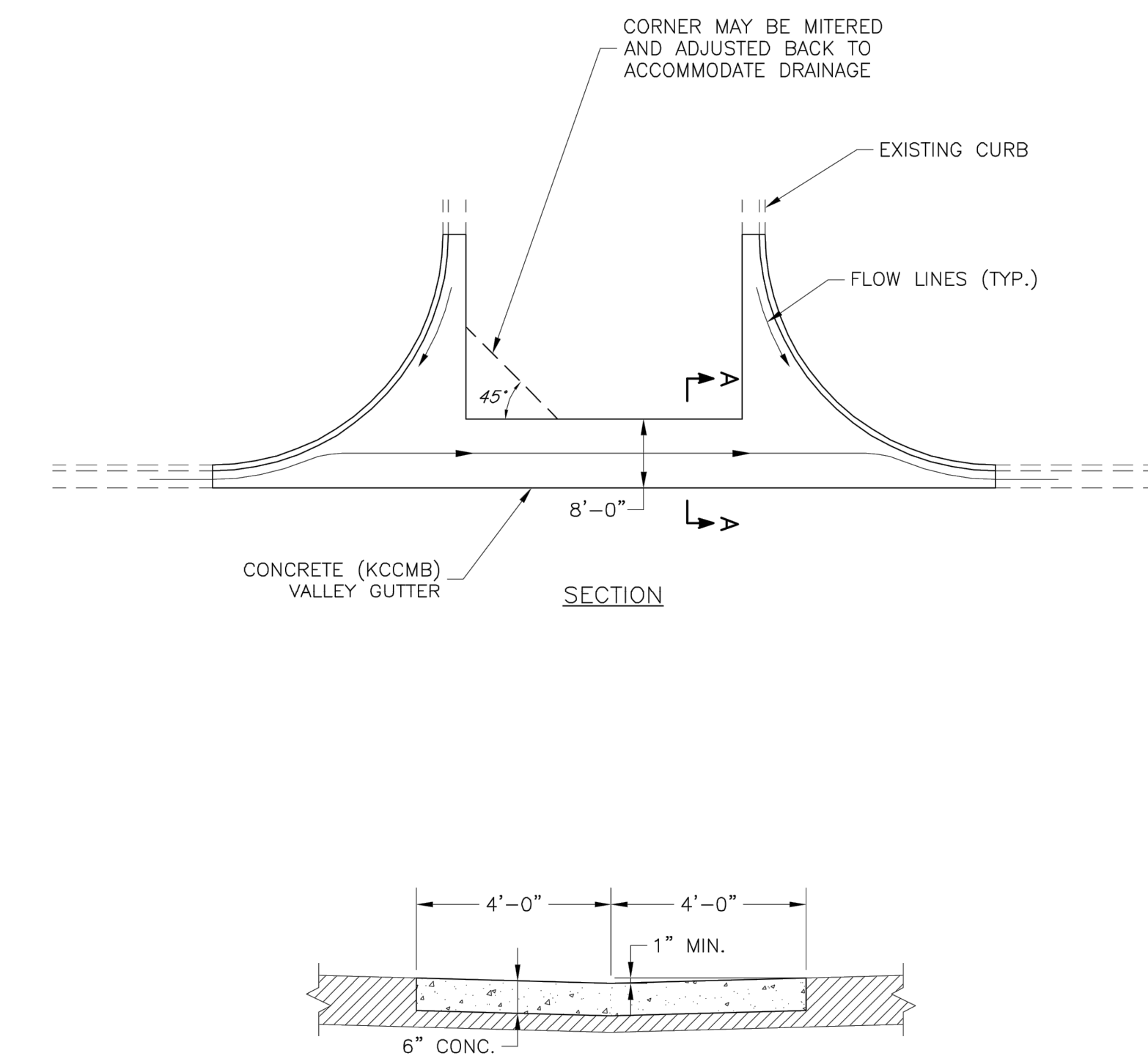


- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10" FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

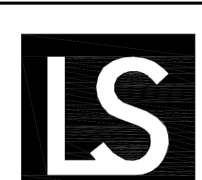


LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-7
Rev: 1/14
Rev:
GEN-7

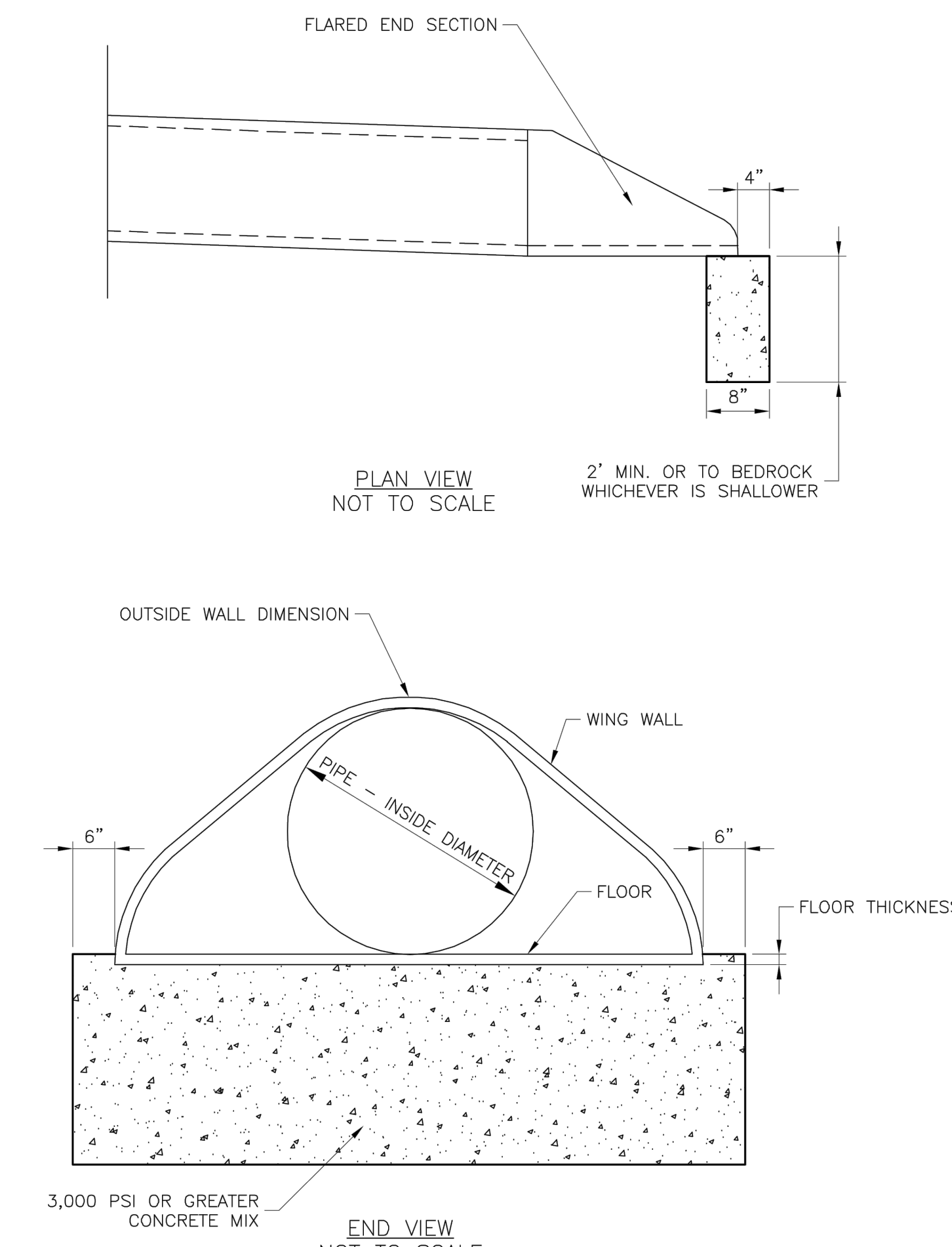


VALLEY GUTTER DETAIL
Intersection of Two Public Streets



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 04/17
Drawn By: MIF
Checked By: DL
GEN-7



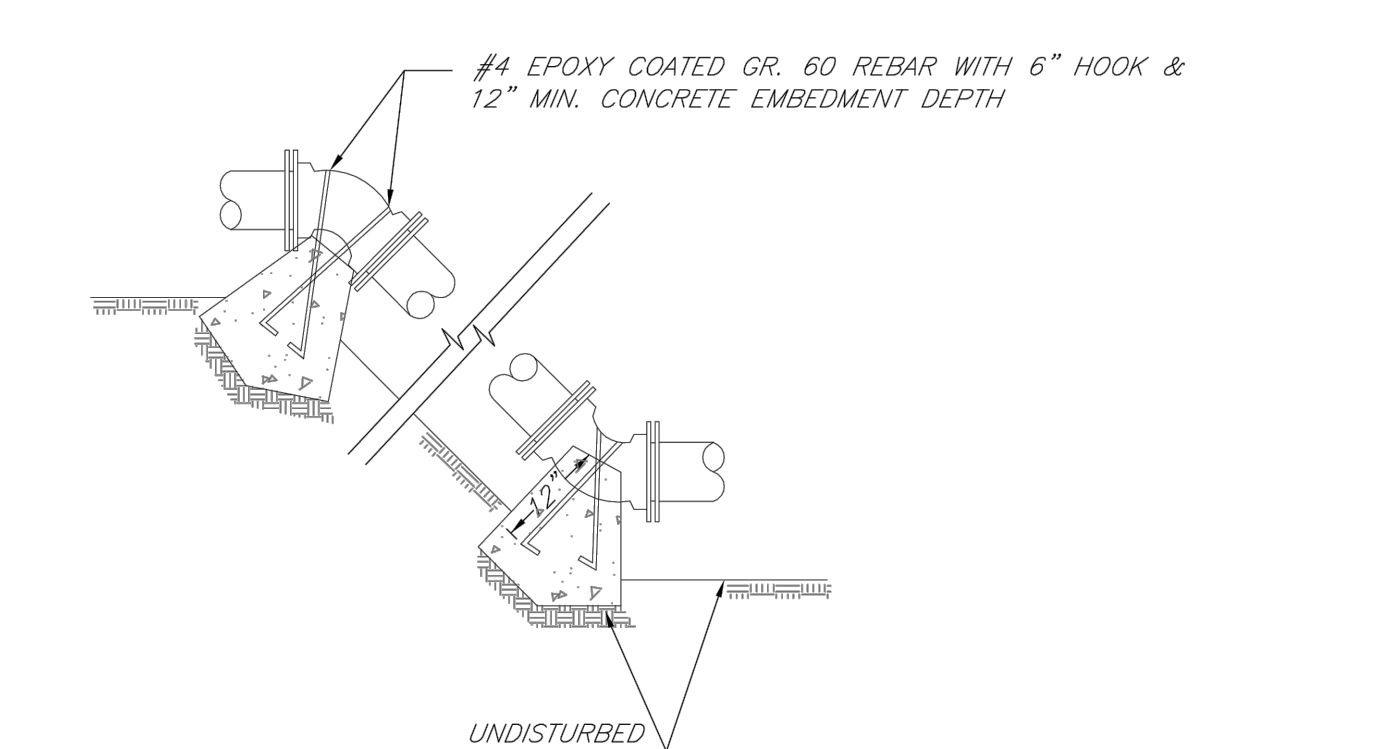
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 04/17
Drawn By: MIF
Checked By: DL
STM-5

REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)

NOM. DIA. (INCHES)	TEE, FLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	50.5	71.4	36.6	19.7	9.9
8	89.8	126.9	62.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	292.0	154.6	78.6	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4

- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-2
Rev: 1/14
Rev:
GEN-7

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Missouri State Certificate of Authority #00399

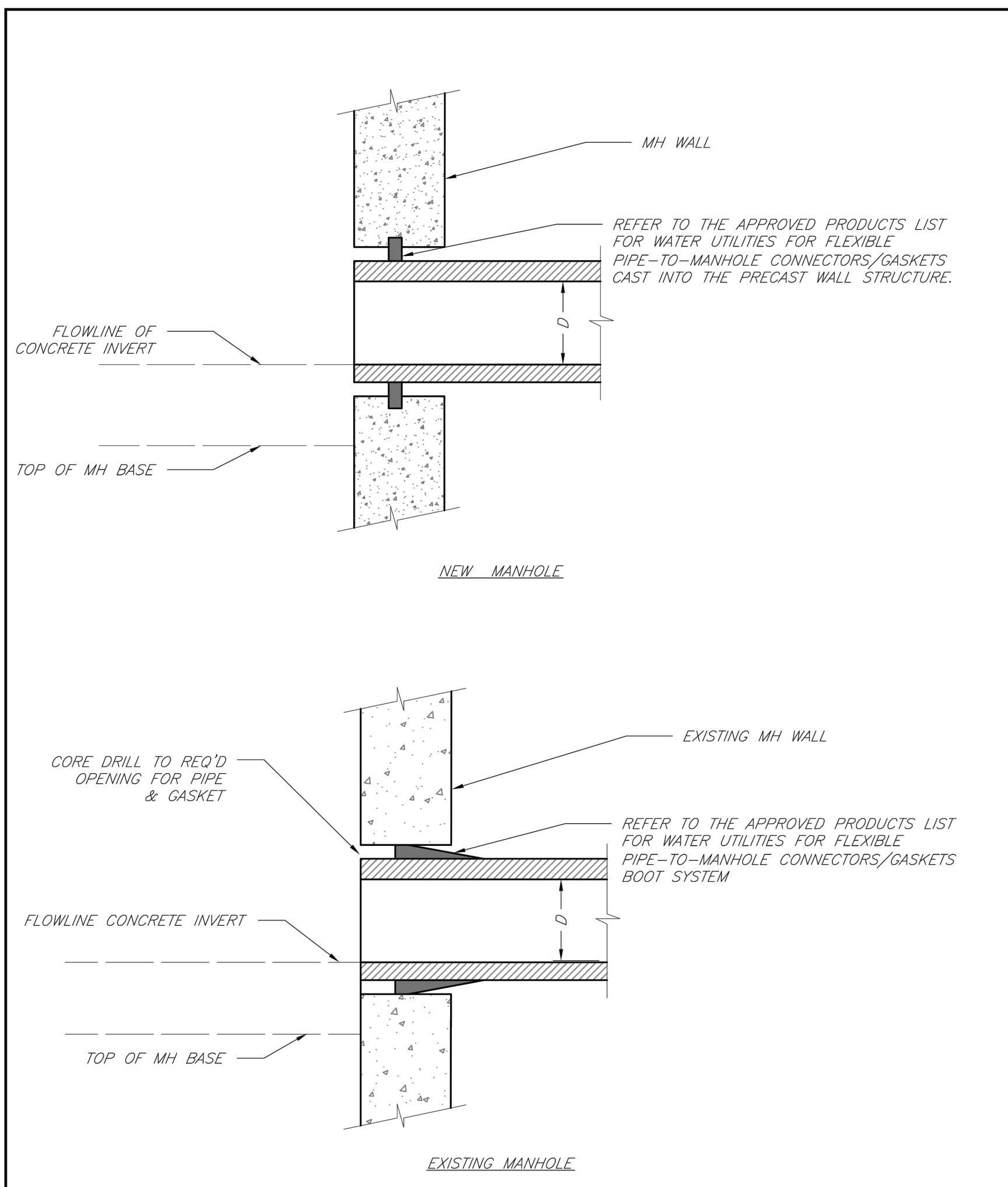
olsson
CIVIL ENGINEERING
MO. CERTIFICATE OF AUTHORITY #011992
7301 West 133rd Street, Suite 200
Overland Park, KS 66221-4750
TEL: 913.381.1170
www.olson.com

MISSOURI PROFESSIONAL ENGINEER
TERRY L. PARSONS
NUMBER
PE-201601888
01/15/2002

LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 2 -
STRUCTURAL & SITE
UTILITIES
ISSUED FOR PERMIT
08/28/20

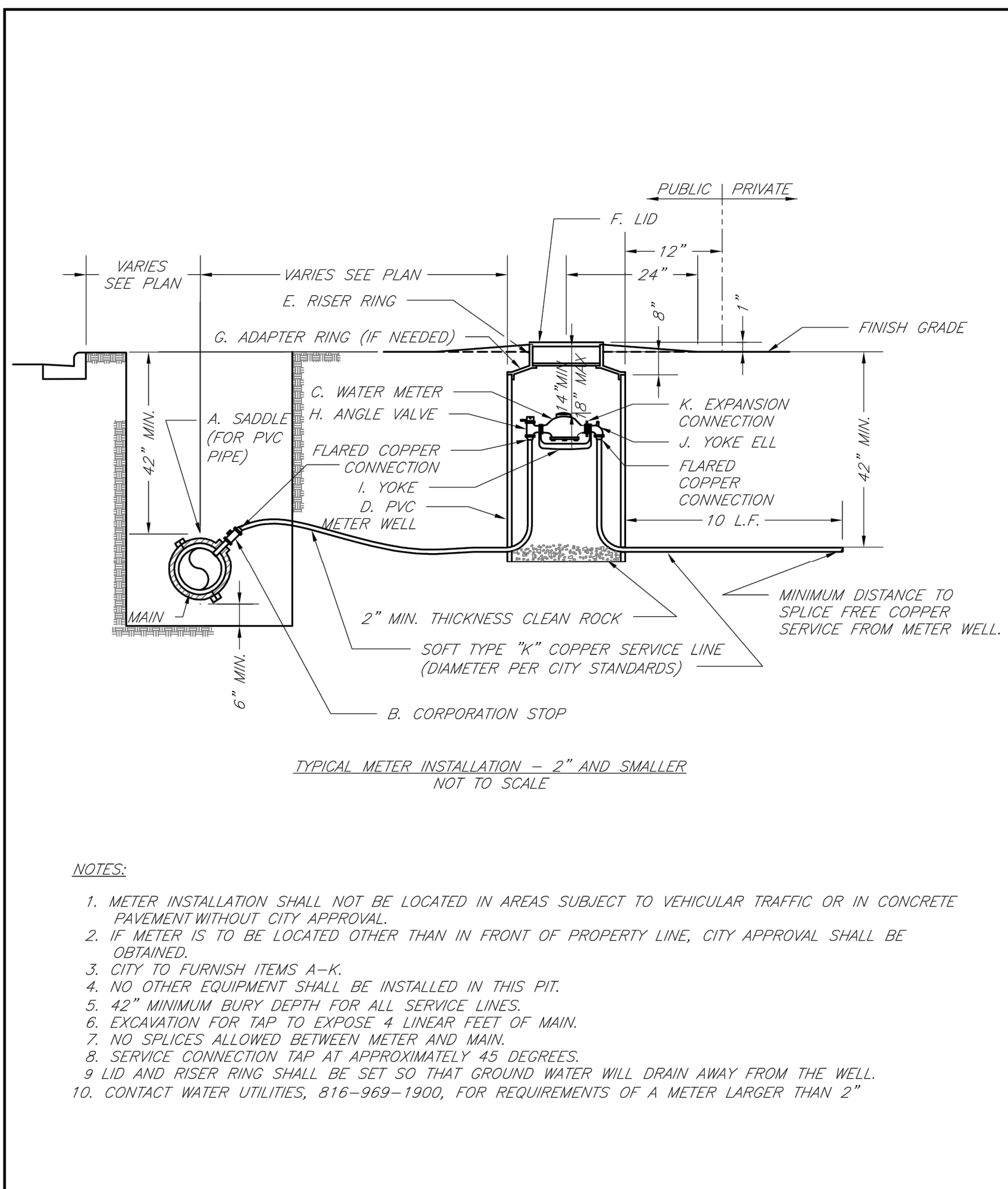
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 TE DETAIL
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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

MANHOLE WALL CONNECTIONS

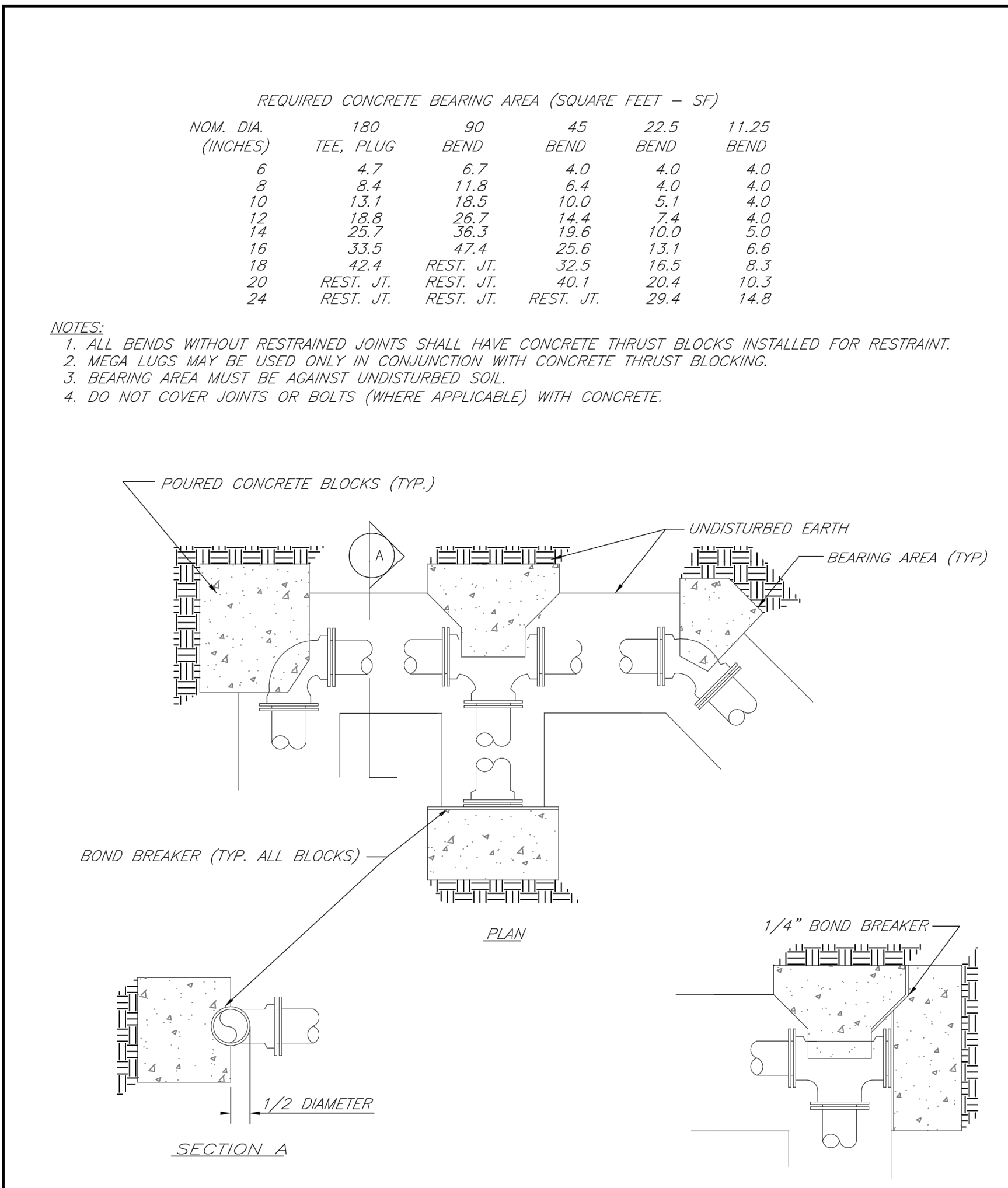
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Drawn By: JN
Checked By: DL
File: SAN-5
Rev: 1/14



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SERVICE CONNECTION/METER WELL

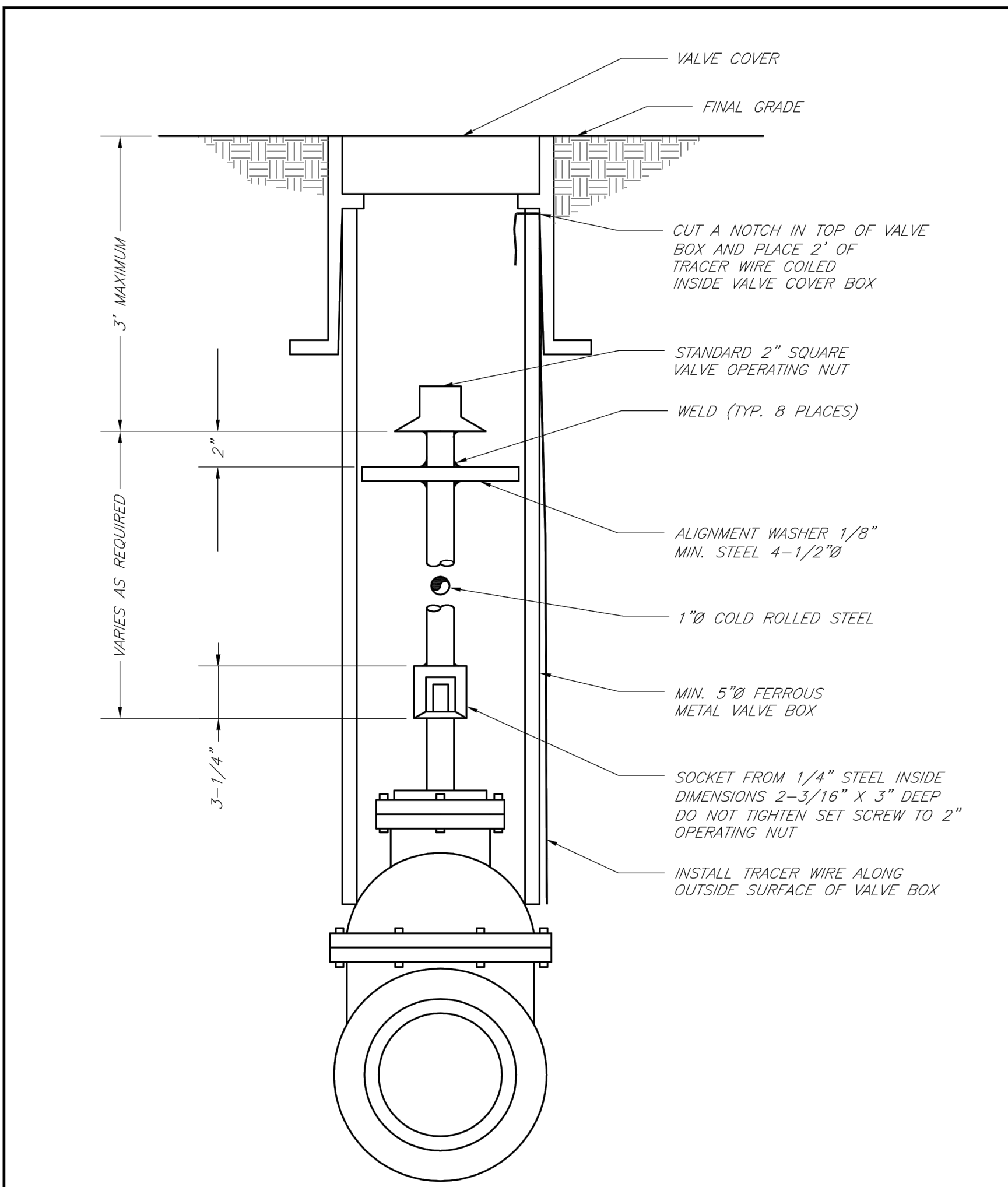
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Rev: 1/14



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HORIZONTAL THRUST BLOCKS

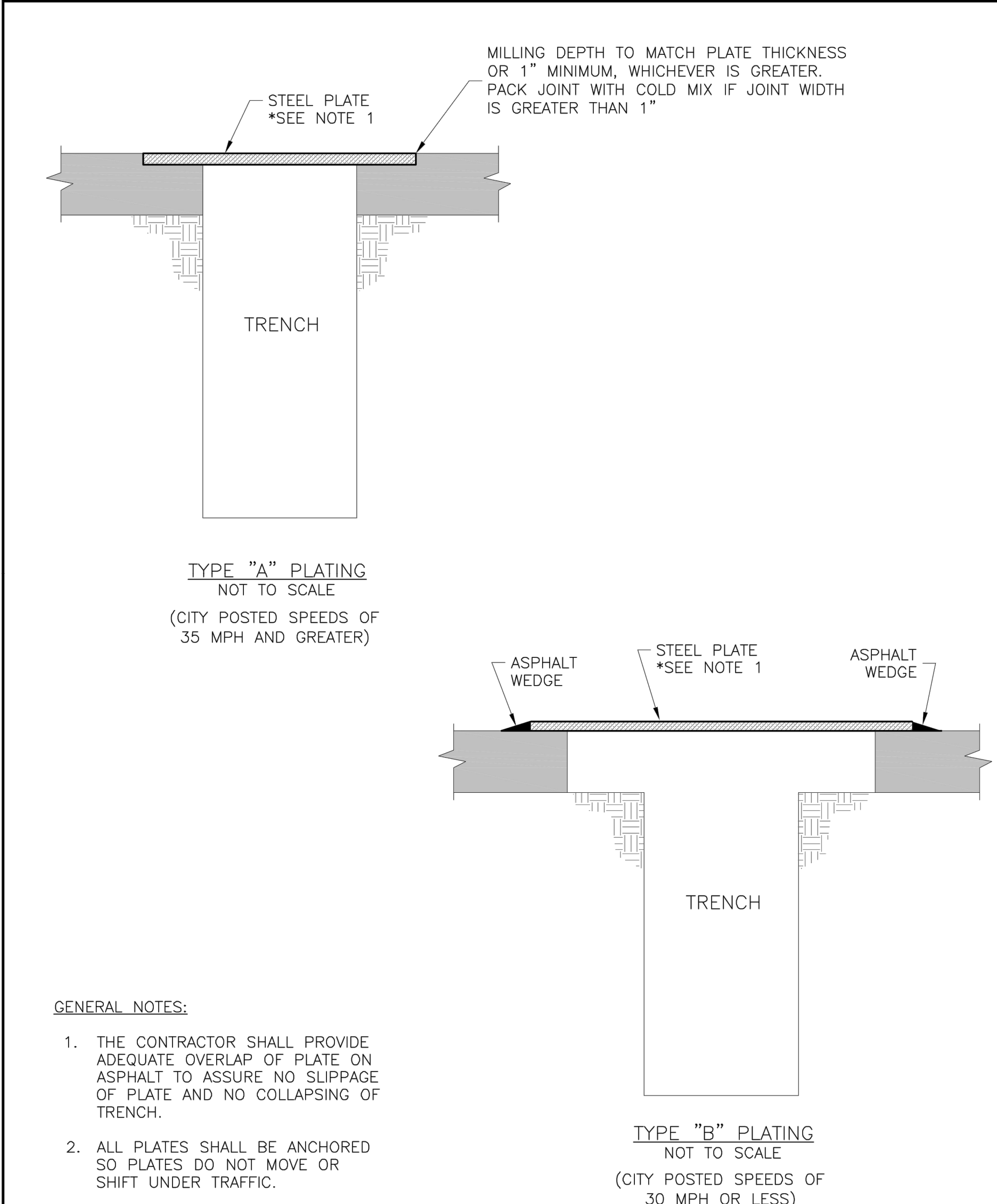
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Rev: 1/14



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VALVE STEM EXTENSION AND VALVE BOX

Date: 02/13
Drawn By: JN
Checked By: DL
File: WAT-9
Rev: 1/14

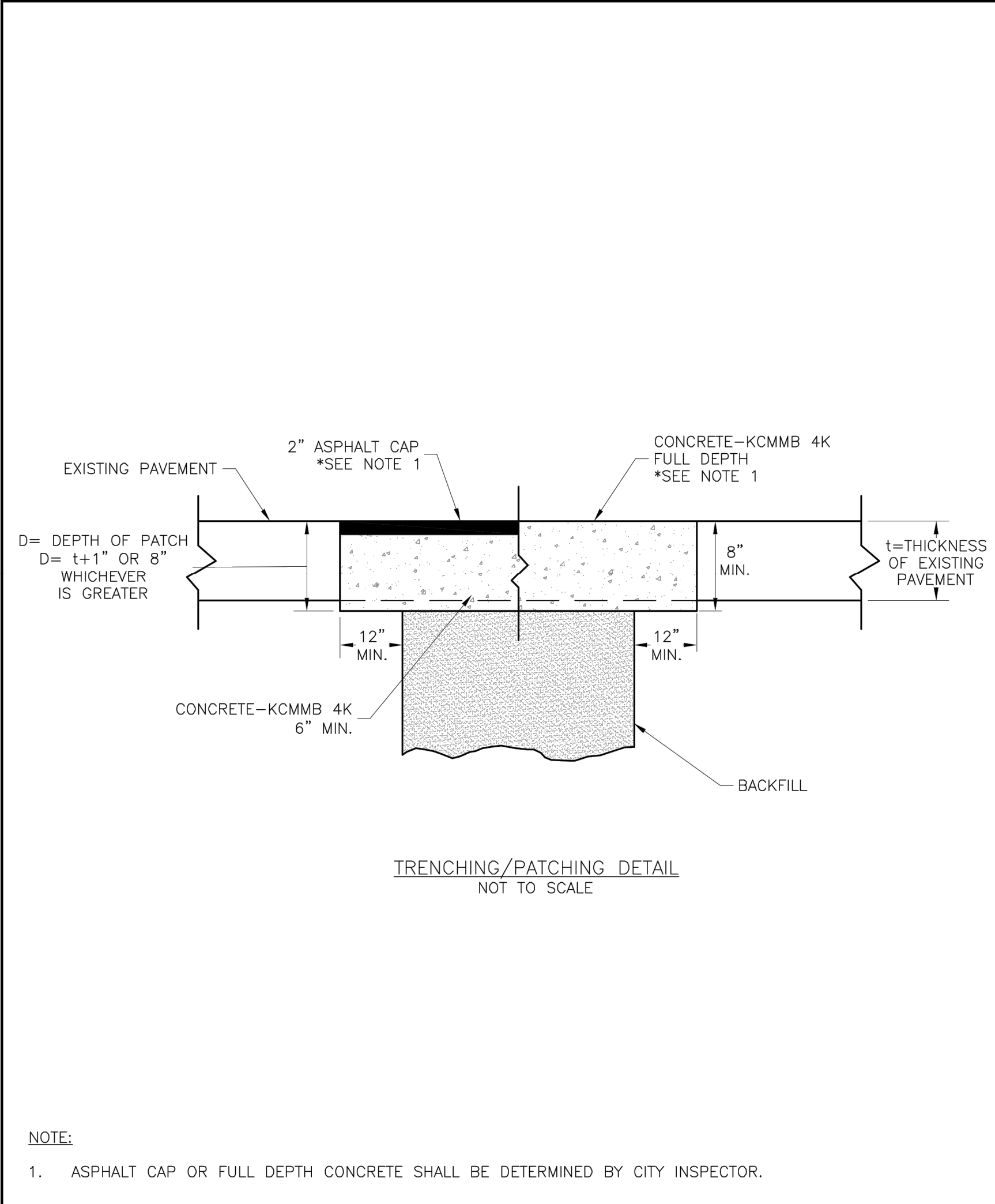


LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

TRENCHING PLATE DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

GEN-6

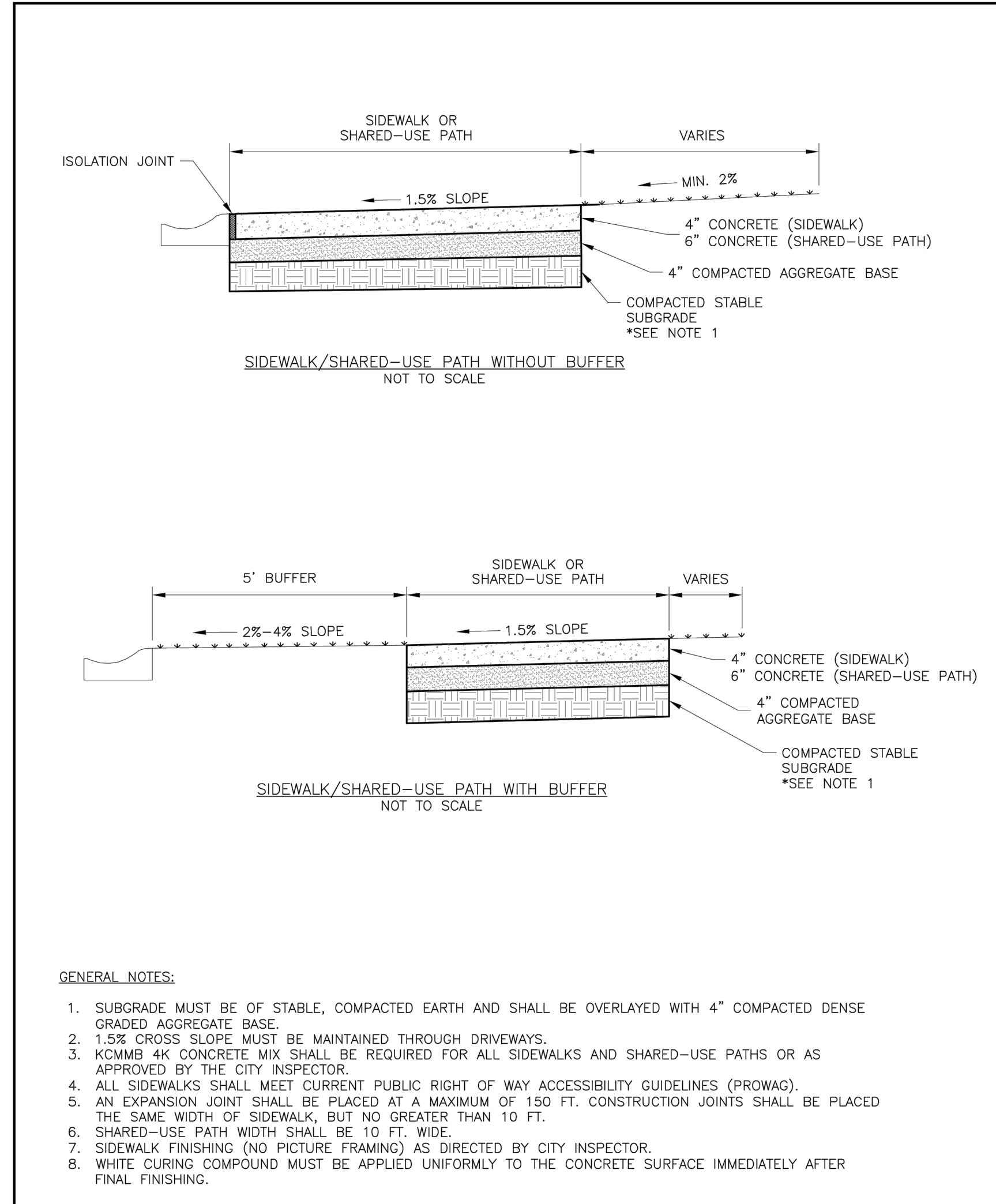


LEE'S SUMMIT MISSOURI
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TRENCHING/PATCHING ROADWAYS DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

GEN-5



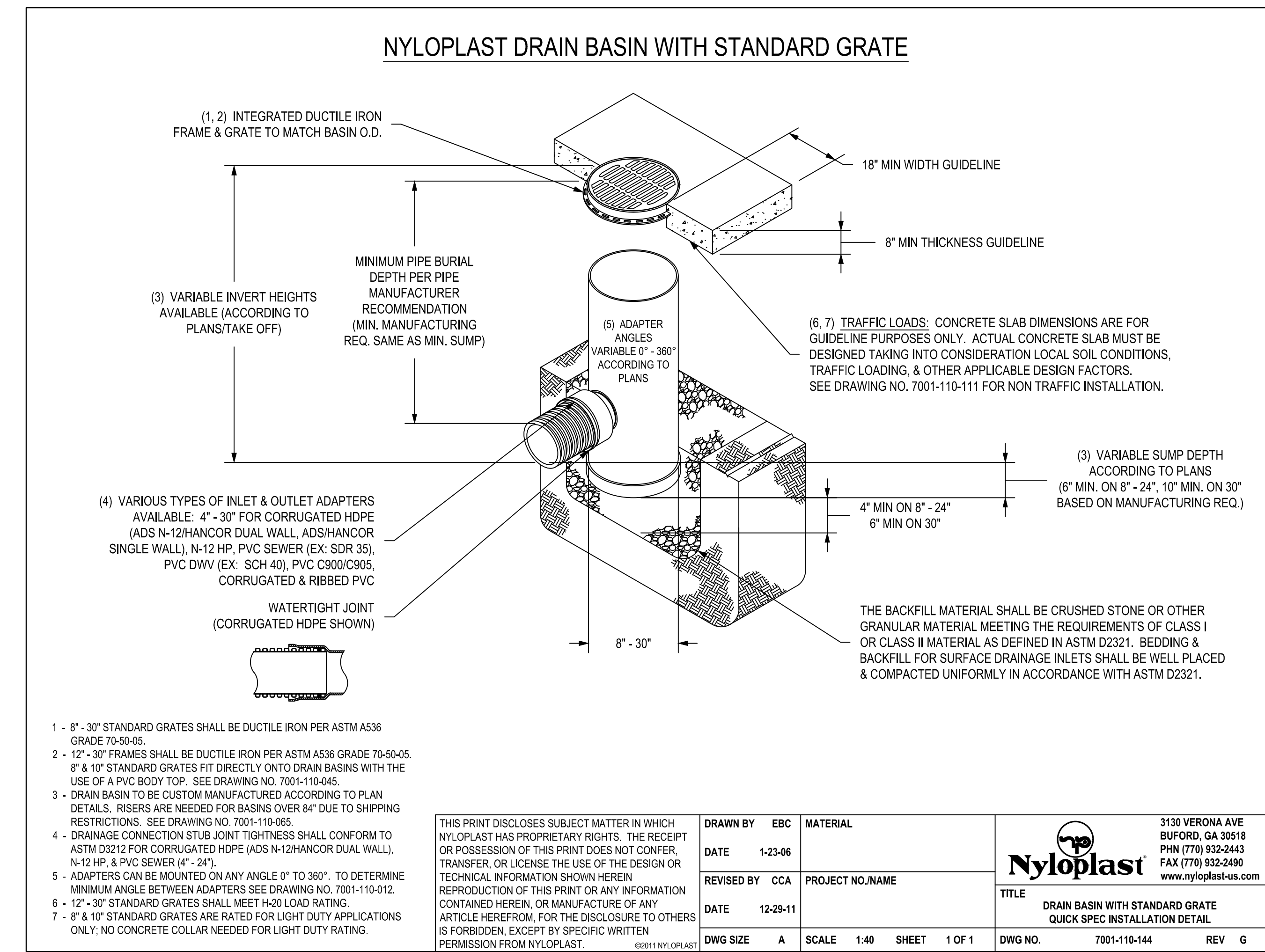
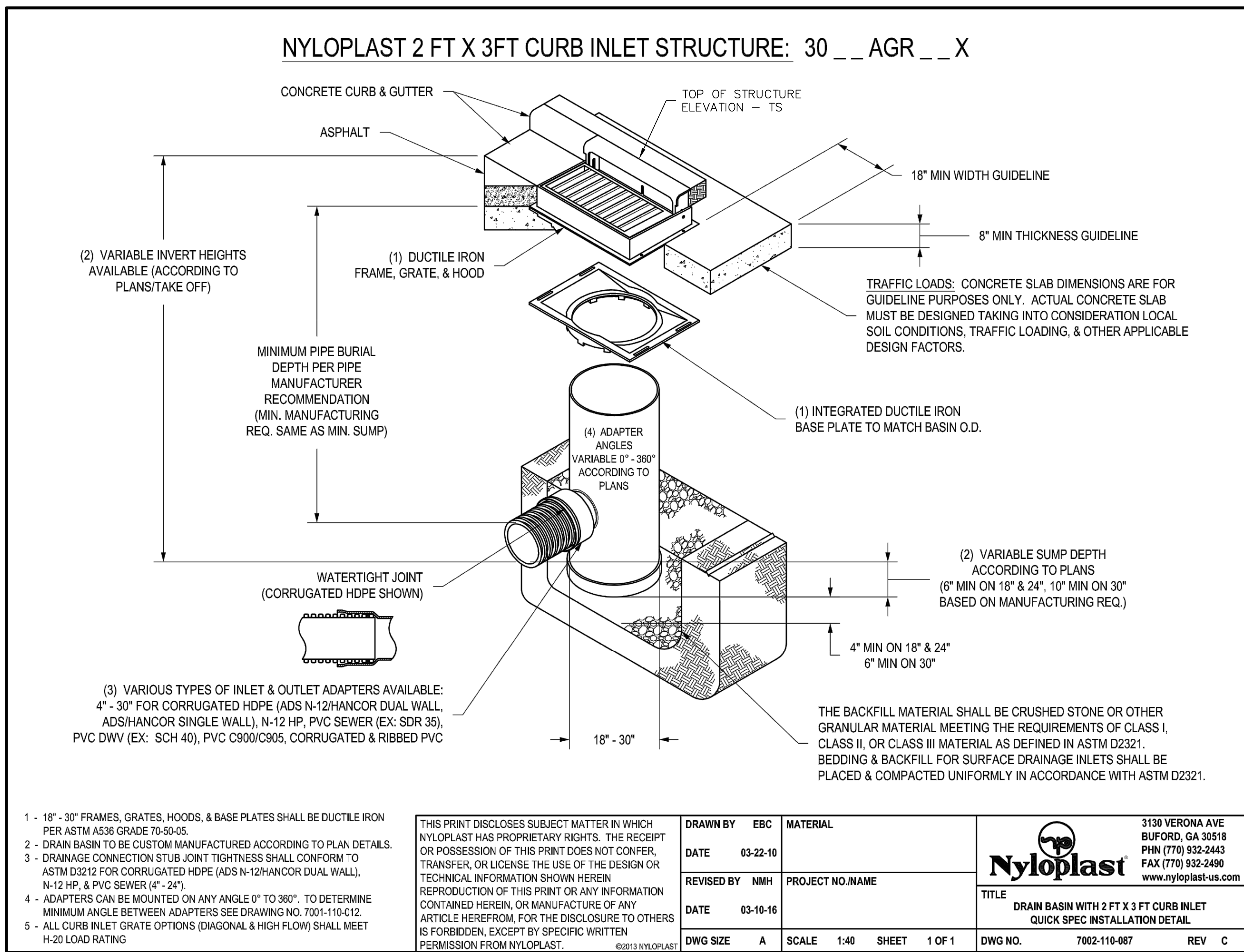
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

SIDEWALK/SHARED-USE PATH DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

GEN-2

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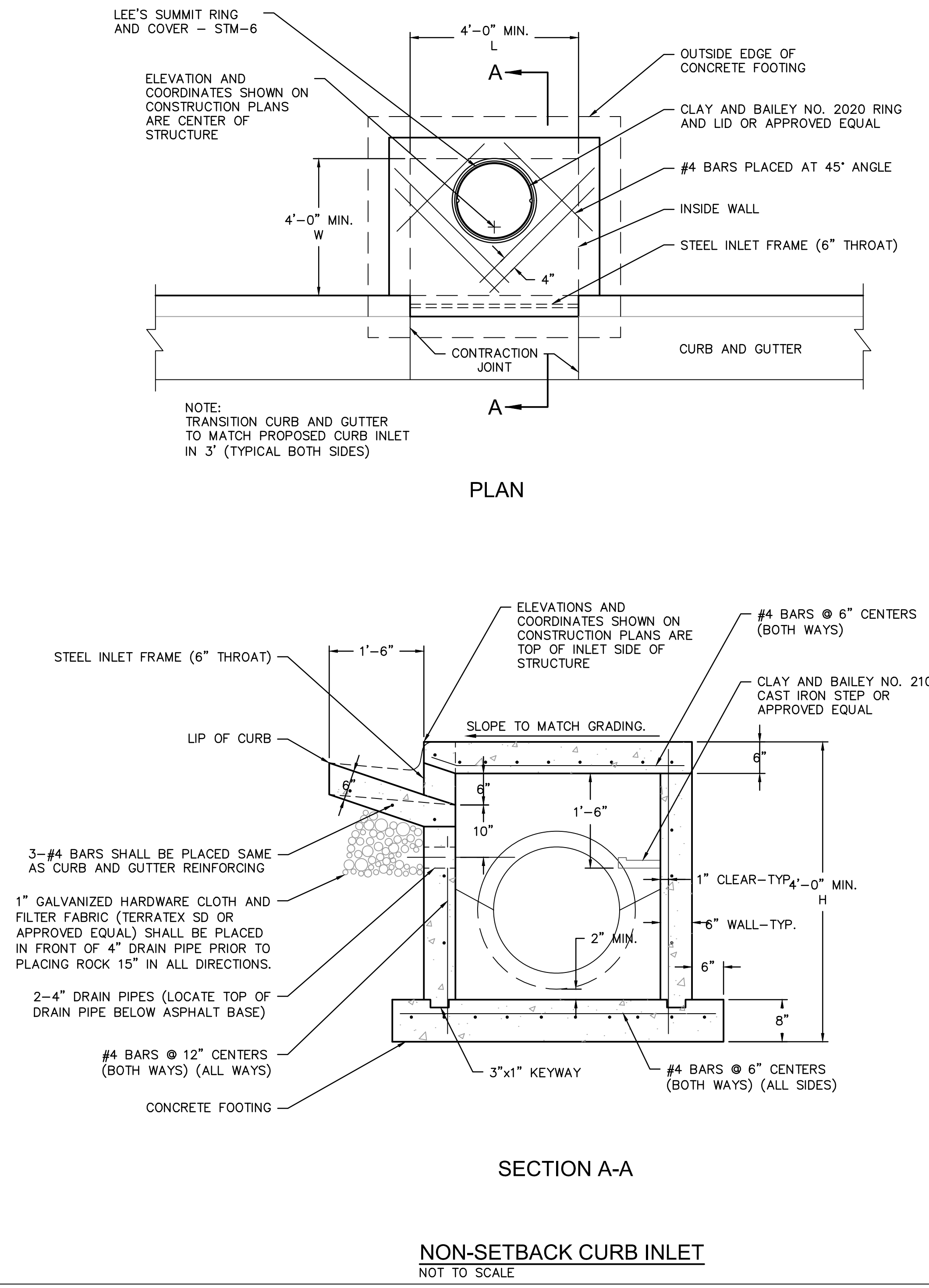
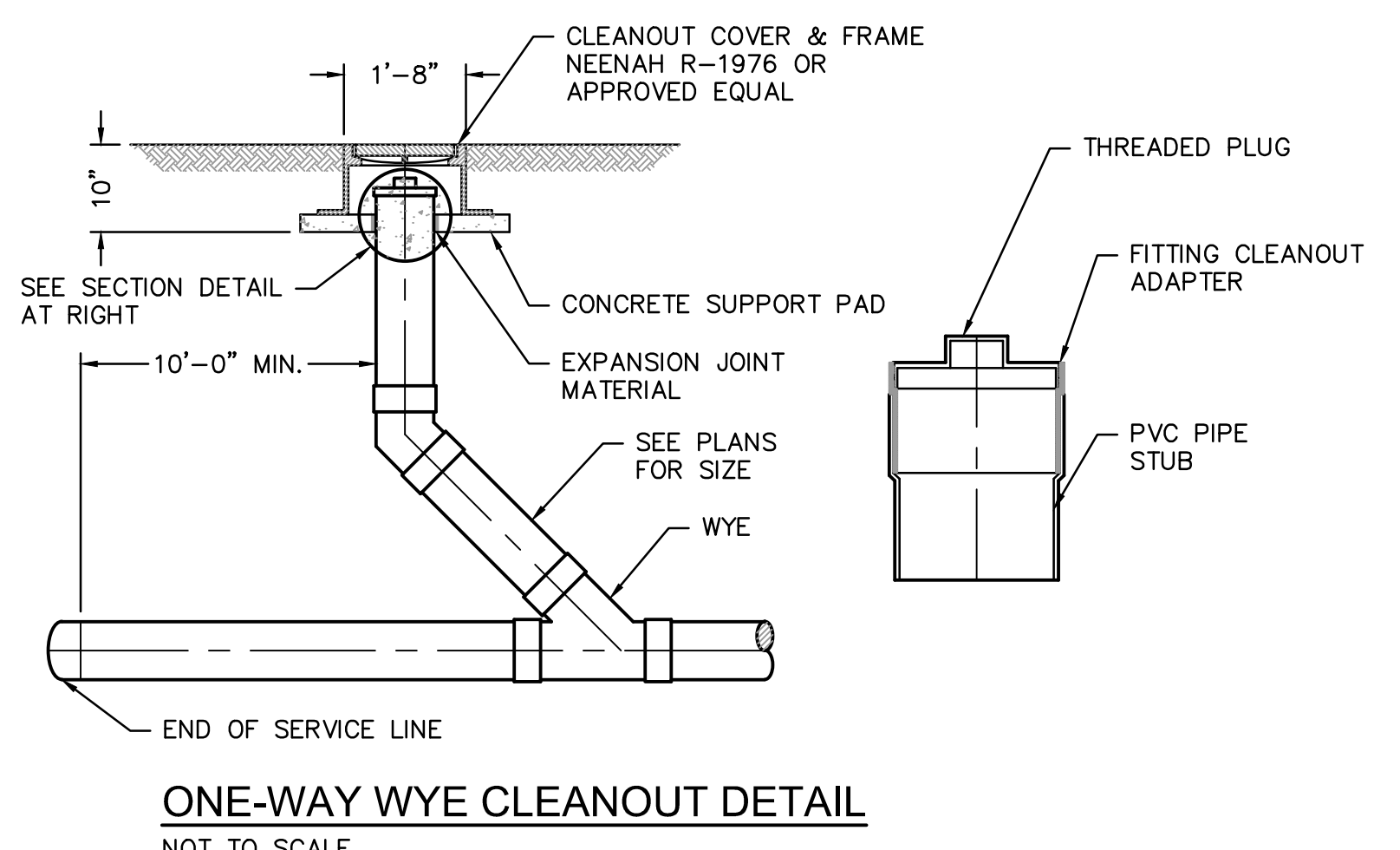
Section 2721
Engineered Surface Drainage Products

GENERAL
 PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
 The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

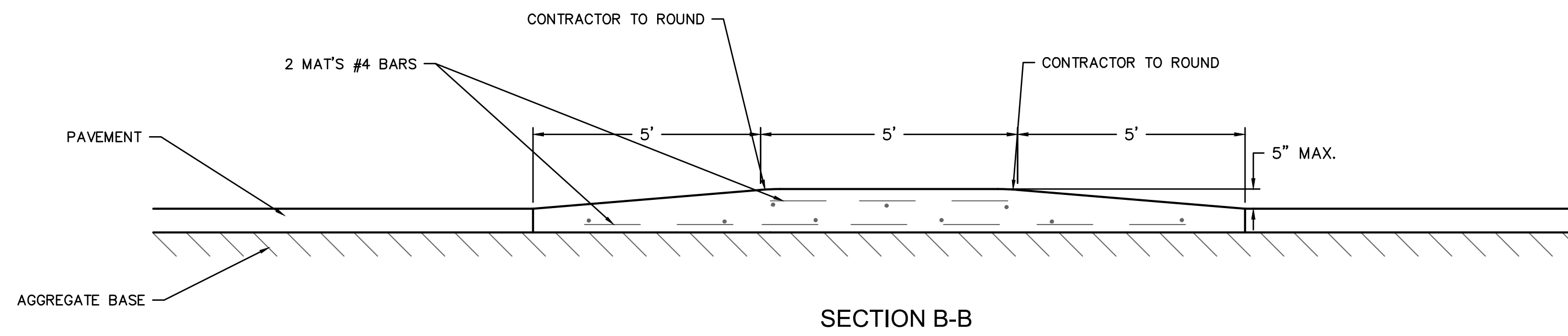
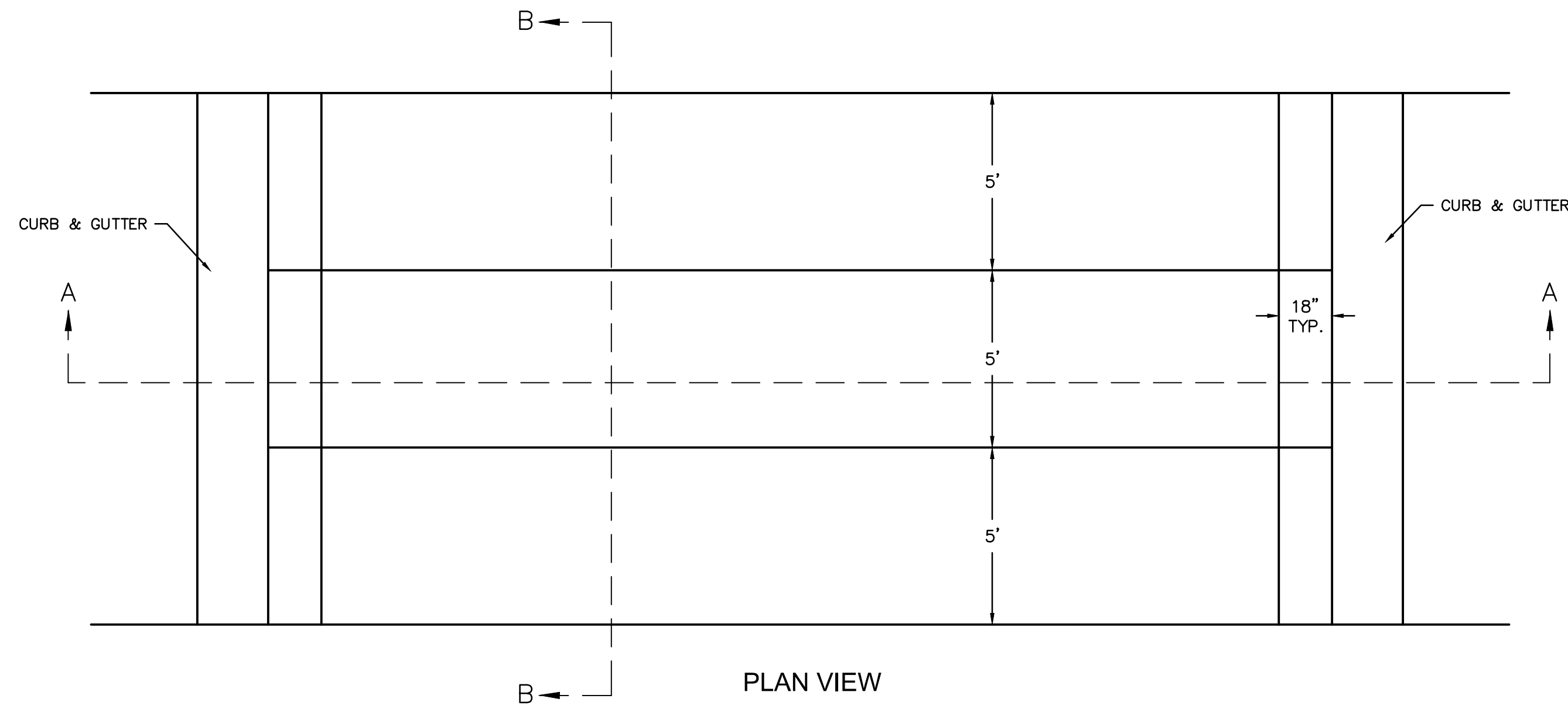
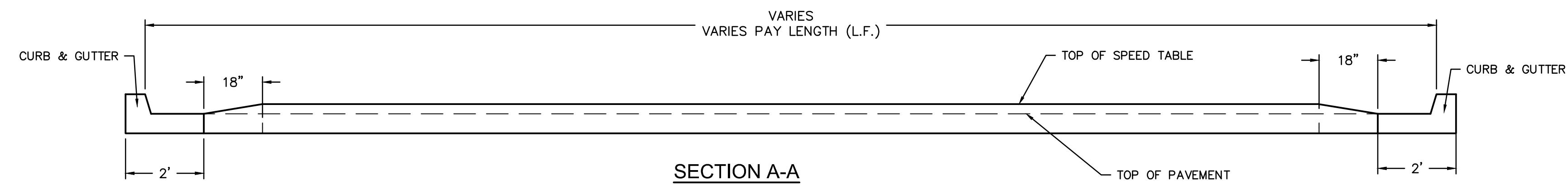
The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION
 The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.



- #### NON-SETBACK CURB INLET NOTES
- USE CITY APPROVED CONCRETE THROUGHOUT.
 - THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION, THE SECOND DIMENSION IS THE "W" DIMENSION.
 - FLOOR OF INLET SHALL BE SHAPED TO PROVIDE SMOOTH FLOW.
 - EXPANSION JOINTS SHALL BE EITHER HOT OR COLD POURED JOINT SEALING COMPOUND, OR PREMOLDED EXPANSION JOINT FILLER.
 - STEEL INLET FRAME SPACERS SHALL BE PLACED AT EQUAL SPACINGS NOT TO EXCEED 4'-0".
 - CAST IRON STEPS TO BE CLAY & BAILEY 2102 OR APPROVED EQUAL. STEEL CORE, PLASTIC COATED STEPS MAY BE USED (M.A. IND., INC. NO. PS1-PF, PS2-PF, OR APPROVED EQUAL). CAST IRON STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY.
 - BEVEL ALL EXPOSED EDGES WITH TRIANGULAR MOLDING.
 - ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
 - ALL STORM SEWER STRUCTURES SHALL BE PRECAST. PRECAST SHOP DRAWINGS SHALL BE APPROVED BY THE DESIGN ENGINEER.
 - REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
 - ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF ±1/8" SHALL BE PERMITTED.
 - ALL LAP SPICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
 - ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
 - ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
 - DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
 - THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
 - ALL CURB INLET TOPS ARE TO BE CONSTRUCTED AFTER FINAL CURB STRING LINE HAS BEEN APPROVED BY THE ENGINEER AND PRIOR TO CURB CONSTRUCTION, OR AS DIRECTED BY THE CITY ENGINEER.
 - RCP CONNECTIONS TO PRECAST STRUCTURE SHALL MEET ALL CITY STANDARDS.
 - BACKFILL AROUND STRUCTURES SHALL BE COMPACTED AND SHALL BE OF THE MATERIAL SPECIFIED PER CITY STANDARDS.
 - NON-SETBACK CURB INLET TO BE USED ONLY WITH THE APPROVAL OF THE CITY ENGINEER.

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SPEED TABLE DETAIL
NOT TO SCALE

- NOTES:
1. CONCRETE SHALL BE 7" PORTLAND CONCRETE KCMB 4K PCC WITH 4" AGGREGATE BASE PER LS SECTION 5200.
 2. TOP ROW OF REBAR SHALL BE ON "P" STAKES.
 3. BOTTOM ROW OF REBAR SHALL BE ON CHAIRS.
 4. QUANTITY SHALL BE MEASURED PER LINEAR FOOT FROM LIP OF CURB TO LIP OF CURB.
 5. CONSTRUCTION JOINTS SHALL BE PLACED AT ALL BREAKS IN SLOPE.

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OLSSON - CIVIL ENGINEERING
 MISSOURI PROFESSIONAL ENGINEER
 NO. CERTIFICATE OF AUTHORITY #001826
 7301 West 133rd Street, Suite 200
 Overland Park, KS 66221-1759 TEL: 913.384.1170 www.olsson.com

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

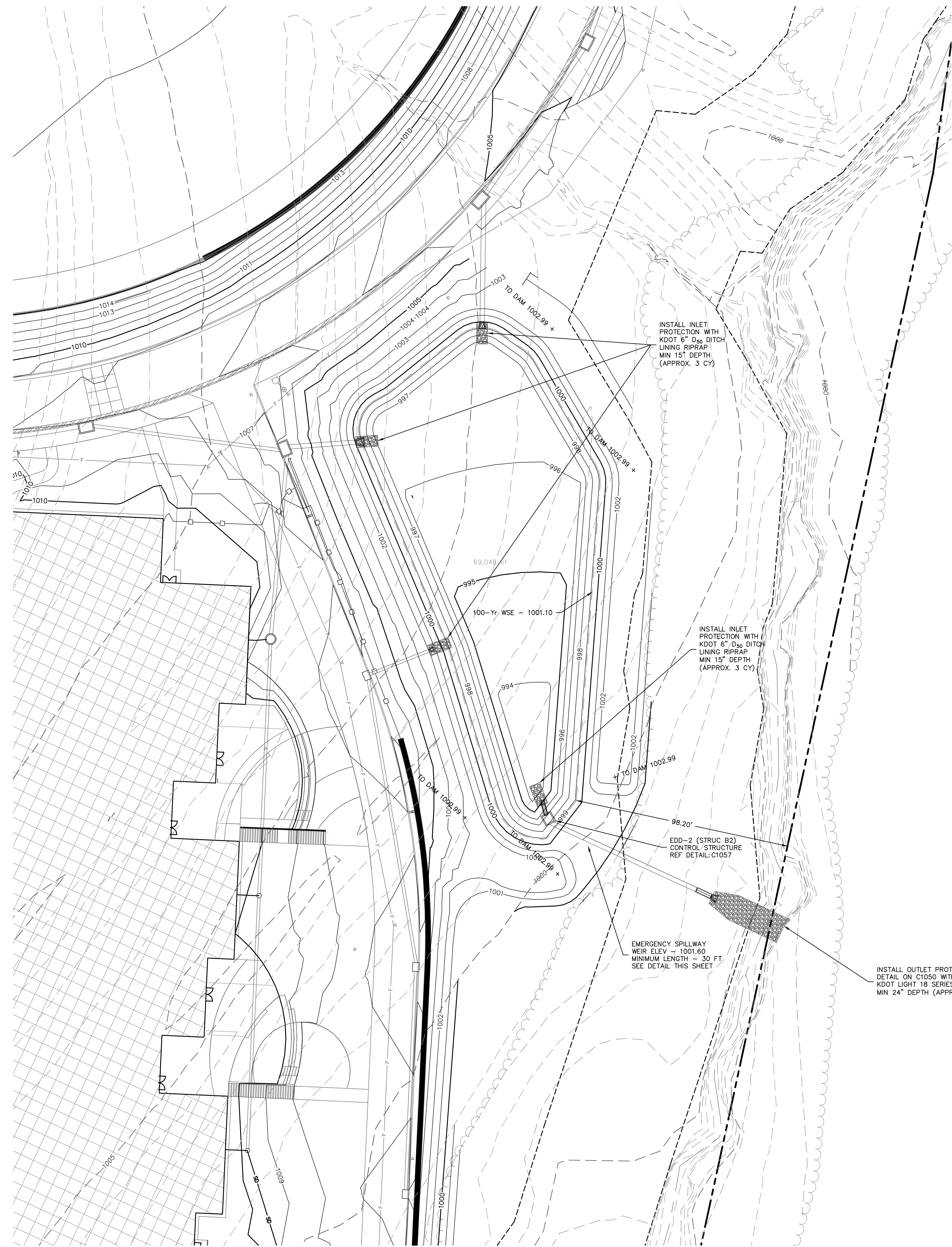
PACKAGE 2 -
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PRO02R 01.14.21

13-20102-00
 STANDARD
 DETAILS

C1058A

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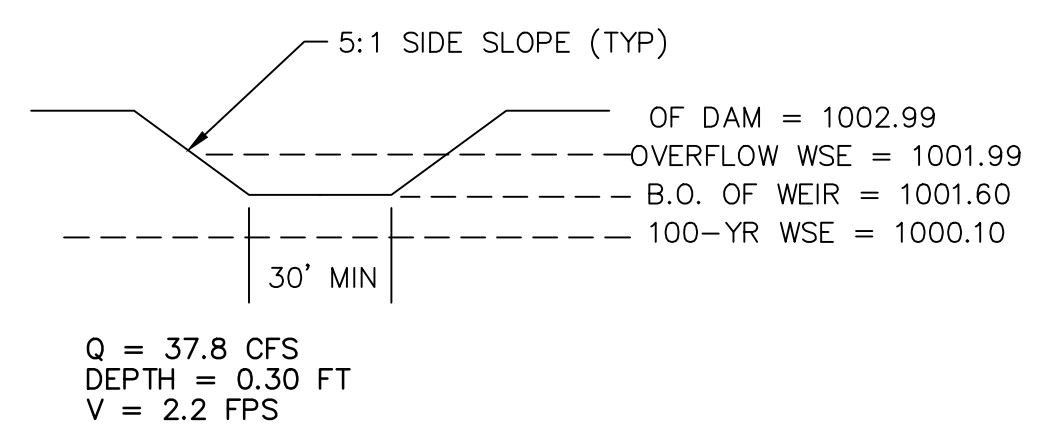


CONTRACTOR NOTE:

ALL TEMPORARY SILTATION BASINS, SEDIMENT BASINS AND DETENTION BASINS MUST BE CONSTRUCTED PRIOR TO ANY OTHER IMPROVEMENTS.

LEGEND

---	PROPERTY LINE
- - - - -	EXISTING MAJOR CONTOUR
- - - - -	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR

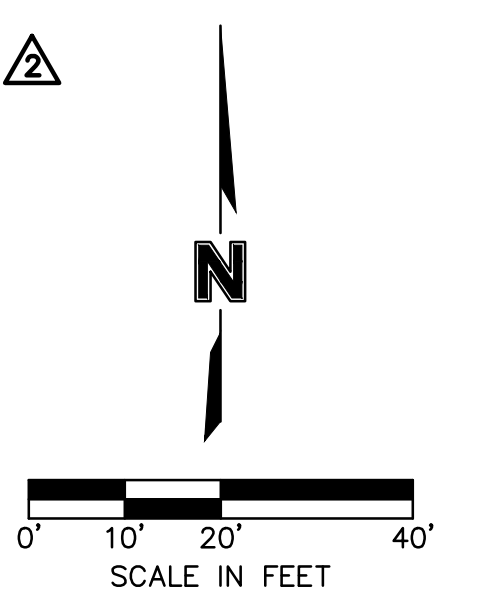


**EDD-2
EMERGENCY SPILLWAY DETAIL**

HEC-14 RIPRAP APRON SIZING FOR OUTFALL D-1

	D50	Q	D	TW	TW/D	APRON LENGTH	APRON DEPTH	Width at
	(in)	ft ³ /s	ft	ft	0.4 Min 1.0 Max	Scale from Table 10.1	Scale x D (ft)	Scale from Table 10.1 (in)
Required	3.4	24.1	2	1.95	0.975	4	8	3.3
Design	6					19	19.8	11.4

ADDED SHEET



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 7301 West 133rd Street, Suite 200
 Overland Park, KS 66213-7750 TEL: 913.381.1170 www.olsson.com

TERRY M. PARSONS
 NUMBER
 PE-291801838
 01/15/2002
 PROFESSIONAL ENGINEER

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

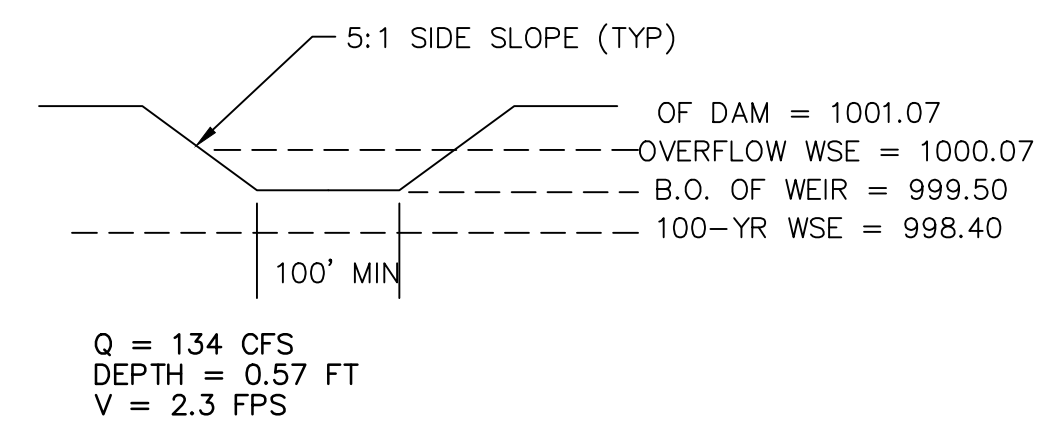
PACKAGE 2-
 STRUCTURAL & SITE
 UTILITIES
 ISSUED FOR PERMIT
 08/28/20
 PR002R 12.18.20

13-20102-00
 DETENTION BASIN
 DETAIL

C1060

CONTRACTOR NOTE:

ALL TEMPORARY SILTATION BASINS, SEDIMENT BASINS AND DETENTION BASINS MUST BE CONSTRUCTED PRIOR TO ANY OTHER IMPROVEMENTS.

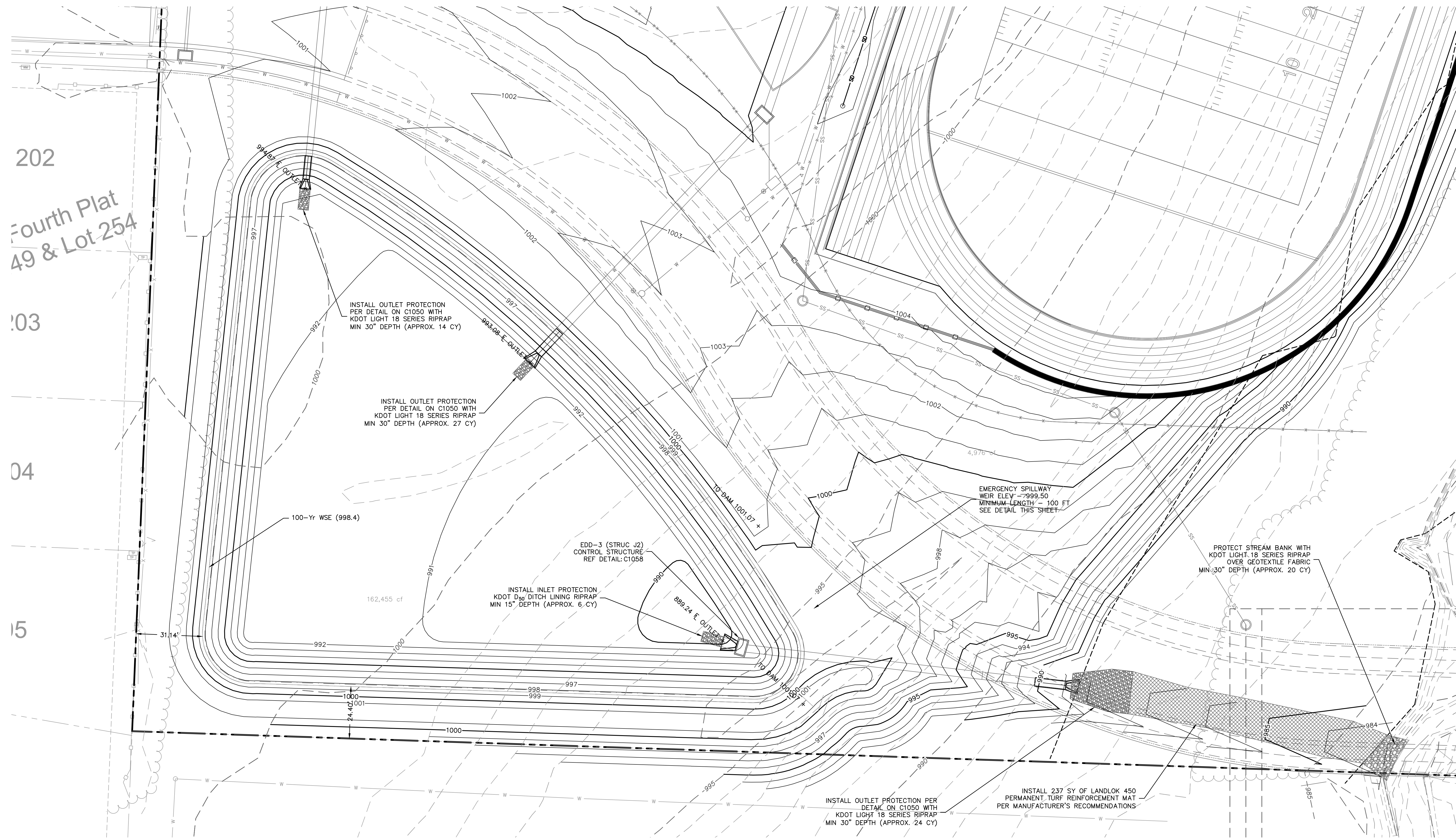


**EDD-3
EMERGENCY SPILLWAY DETAIL**

LEGEND

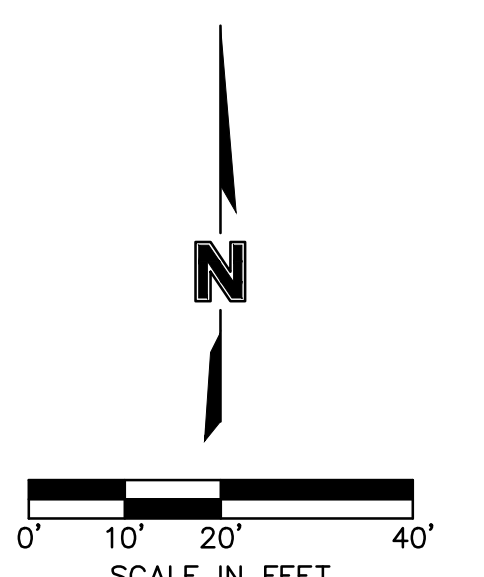
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- - - -	EXISTING MAJOR CONTOUR
- - - -	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
- - - -	PROPOSED MINOR CONTOUR

ADDED SHEET



HEC-14 RIPRAP APRON SIZING FOR OUTFALL J-1

	D50	Q	D	TW	TW/D	APRON LENGTH		APRON DEPTH		Width at End of Apron (ft)
	(in)	ft ³ /s	ft	ft	ft	Scale from Table 10.1	Scale x D (ft)	Scale from Table 10.1	Scale x D50 (ft)	
Required	4.5	63	3.5	2.48	0.708571	4	14	3.3	29.7	19.9
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 C_PBASE_0200103
 C_PSURF_0200103

202
Fourth Plat
49 & Lot 254

03

04

15