

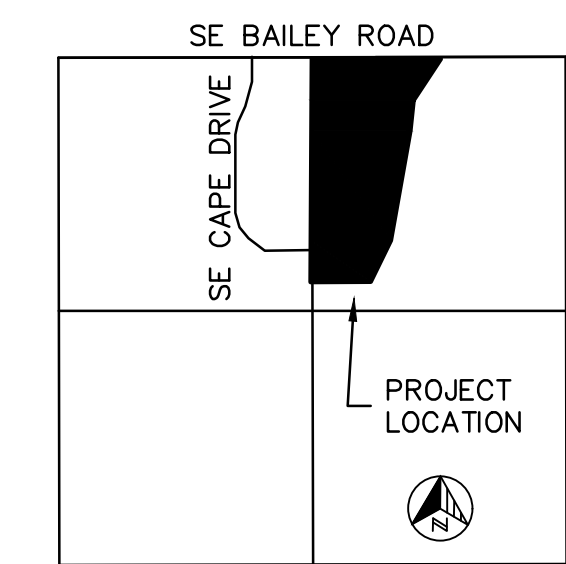
FINAL DEVELOPMENT PLANS
FOR
LEE'S SUMMIT MIDDLE SCHOOL #4
SOUTH SIDE SE BAILEY ROAD AND COUNTRY LANE
NE 1/4 OF SECTION 16, TOWNSHIP 47 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

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C1058	STANDARD DETAILS
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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

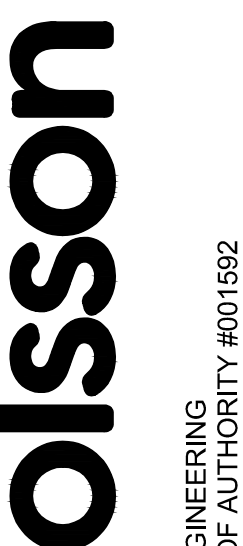
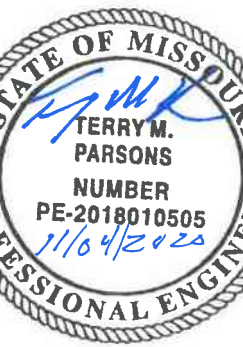
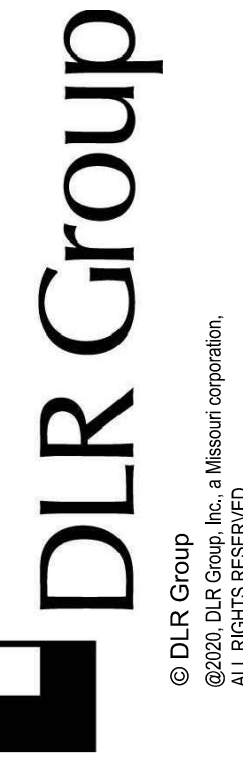


SECTION 16, T.47N., R.31W.
VICINITY MAP
SCALE: 1" = 2000'

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-200900067, 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.



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MO. CERTIFICATE OF AUTHORITY #001982
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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 64081

FINAL DEVELOPMENT PLAN
08/28/20
REVISIONS
REVISOR: REVISED PER CITY COMMENTS 10/01/20
REVISOR: REVISED PER CITY COMMENTS 11/04/20

13-20102-00
COVER SHEET

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020

C1000

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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)344-7743 OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. 11STHPI 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.
...
38. 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.
...
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.
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.
...
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 SLOPE/DEPRESSION OF SE RANSON 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: 99352755.84
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 OVERFLOW 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 MDDOT'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 OVERFLOW STRUCTURE ON SOUTH SIDE OF POND ON NORTH SIDE OF SE BAILEY RD. ±862' 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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020

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.

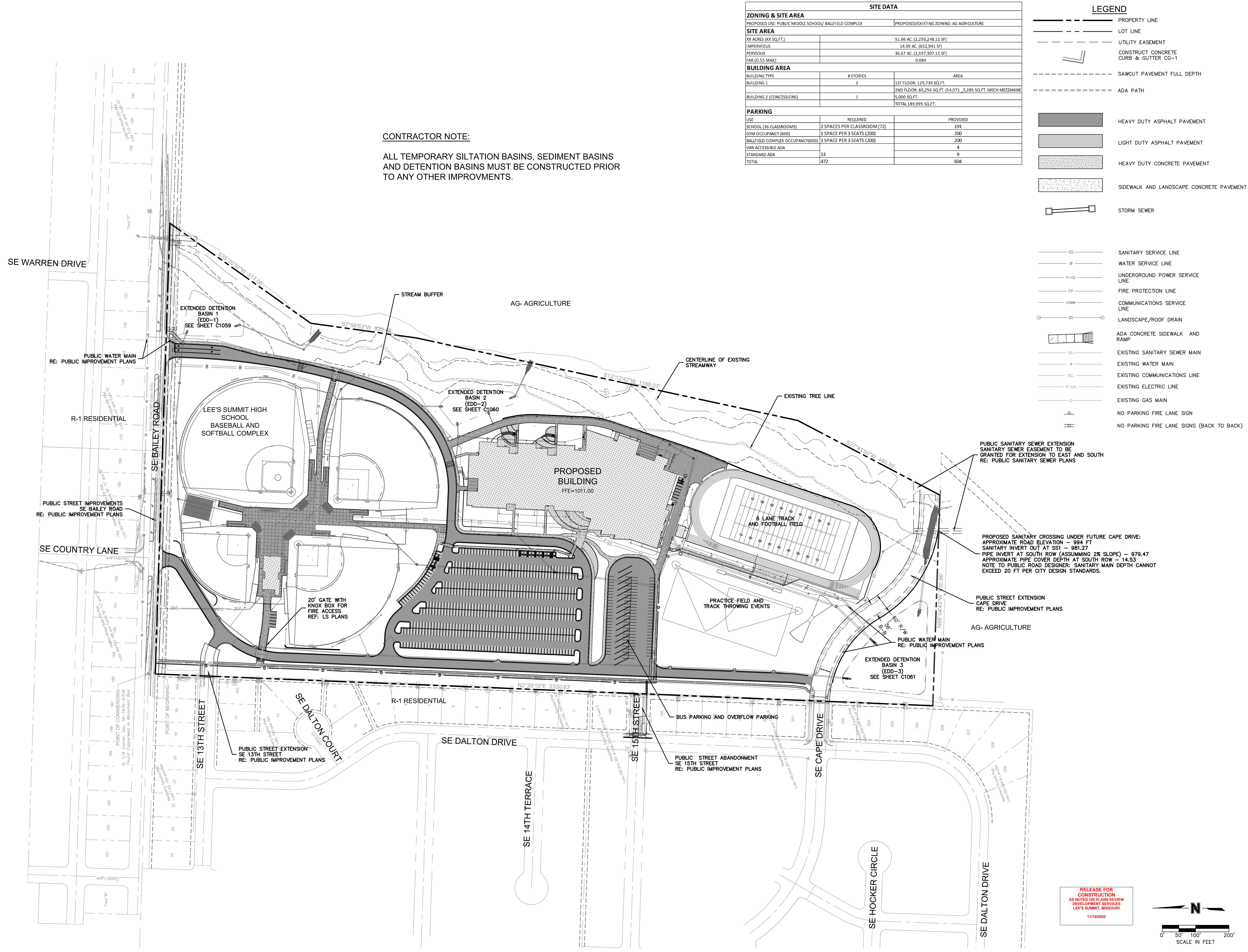
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DLR Group logo and Olsson logo with Missouri Professional Engineer seal and contact information for Olsson Civil Engineering.

LEE'S SUMMIT MIDDLE SCHOOL #4 logo and address: 1001 SE BAILEY ROAD, LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN 08/28/20 REVISIONS REVISED PER CITY COMMENTS 10.01.20 REVISED PER CITY COMMENTS 11.04.20 13-20102-00 GENERAL NOTES C1001

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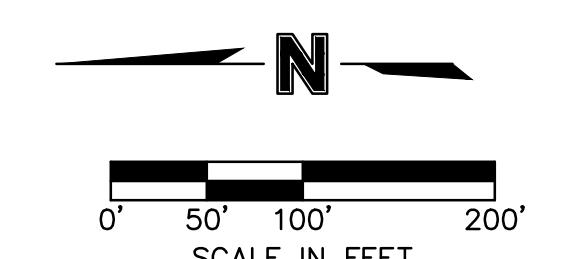


CONTRACTOR NOTE:
 ALL TEMPORARY SILTATION BASINS, SEDIMENT BASINS AND DETENTION BASINS MUST BE CONSTRUCTED PRIOR TO ANY OTHER IMPROVMENTS.

SITE DATA		
ZONING & SITE AREA		PROPOSED/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.
		2ND FLOOR: 60,256 SQ.FT. (54,971 - 5,285 SQ.FT. MECH MEZZANINE)
BUILDING 2 (CONCESSIONS)	1	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)

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020



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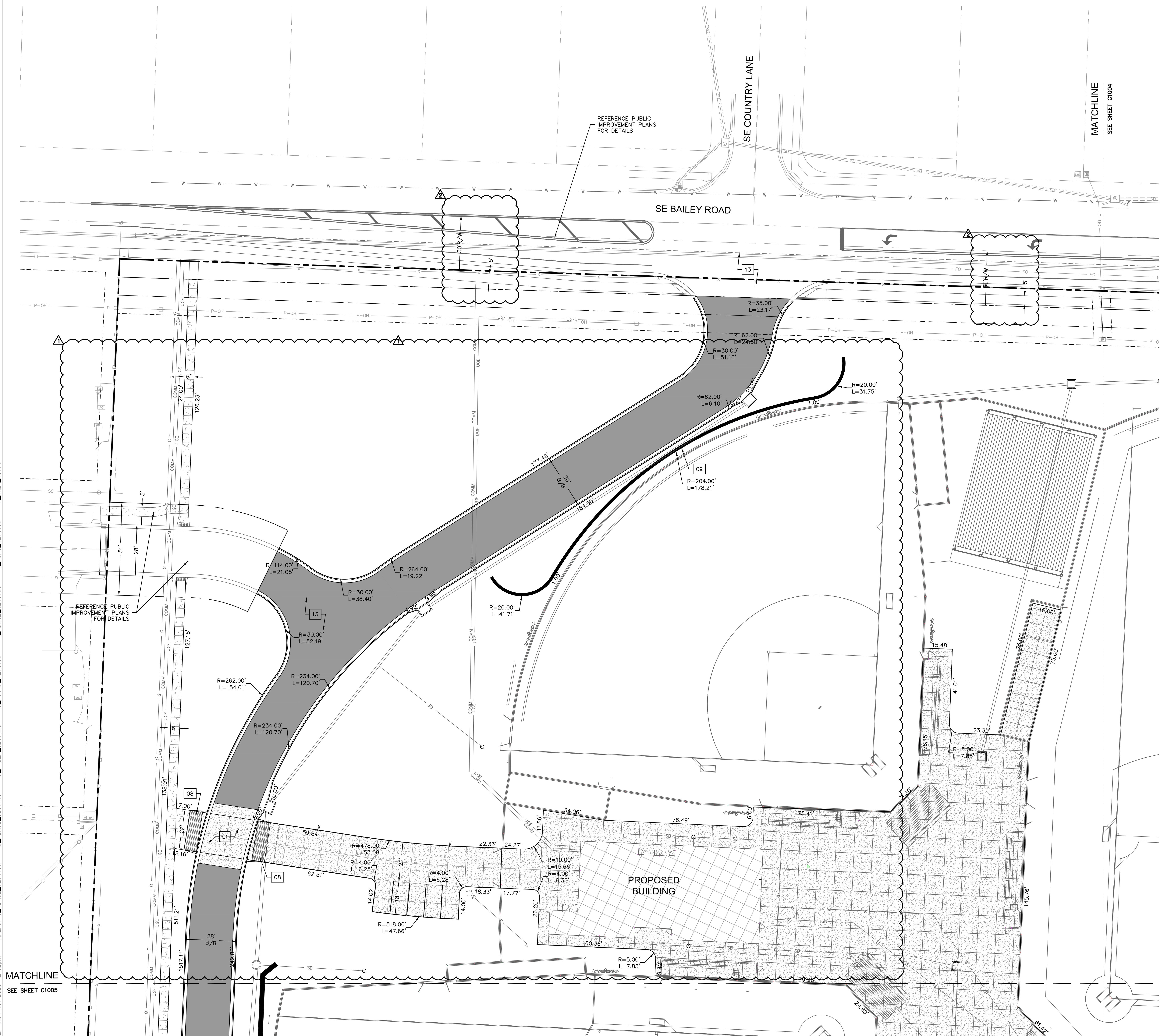
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 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 100 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
 08/28/20
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 REVISIONS PER CITY COMMENTS 10.01.20
 REVISIONS PER CITY COMMENTS 11.01.20

13-20102-00
 GENERAL LAYOUT PLAN

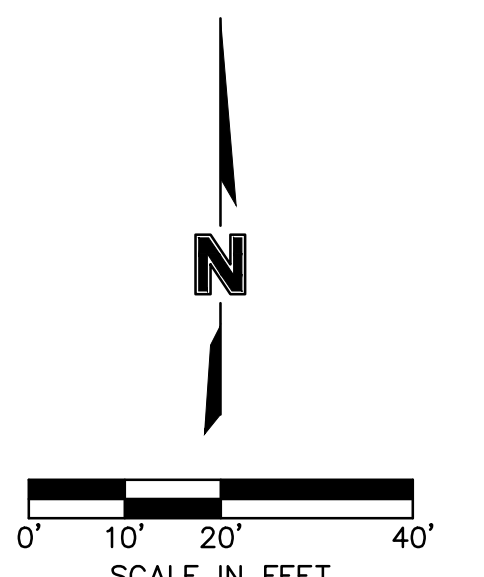
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LEGEND	
[Symbol]	PROPERTY LINE
[Symbol]	CONCRETE CURB & GUTTER TYPE "CG-1"
[Symbol]	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
[Symbol]	SAWCUT PAVEMENT FULL DEPTH
[Symbol]	COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
[Symbol]	6" PCC CONCRETE PAVEMENT
[Symbol]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

- CONSTRUCTION KEYNOTES:** XX
- 01 HEAVY DUTY CONCRETE CROSSWALK. RE: DETAILS
 - 02 SPEED TABLE. RE: GRADING 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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020

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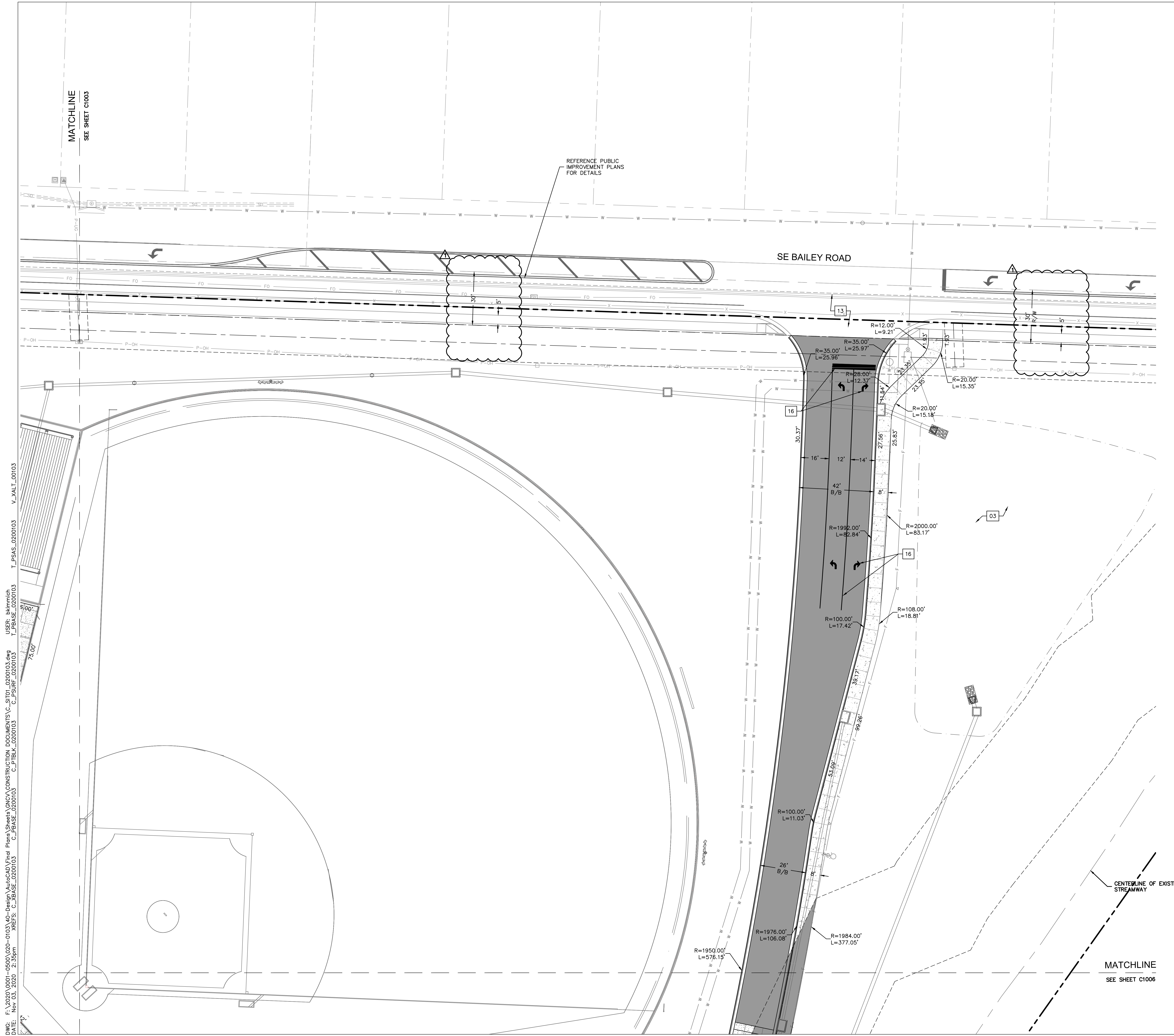
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13-20102-00

SITE DIMENSION PLAN

C1003



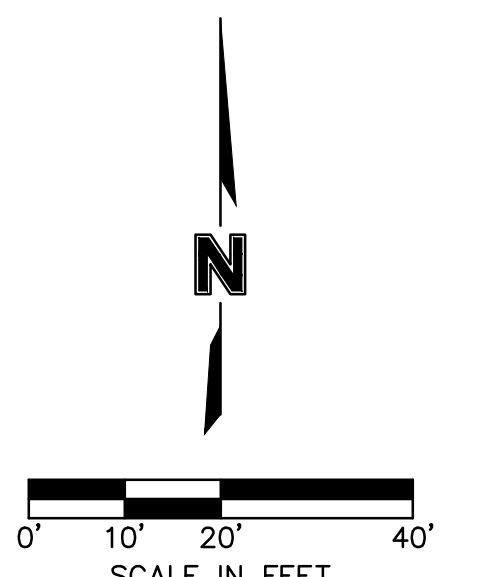
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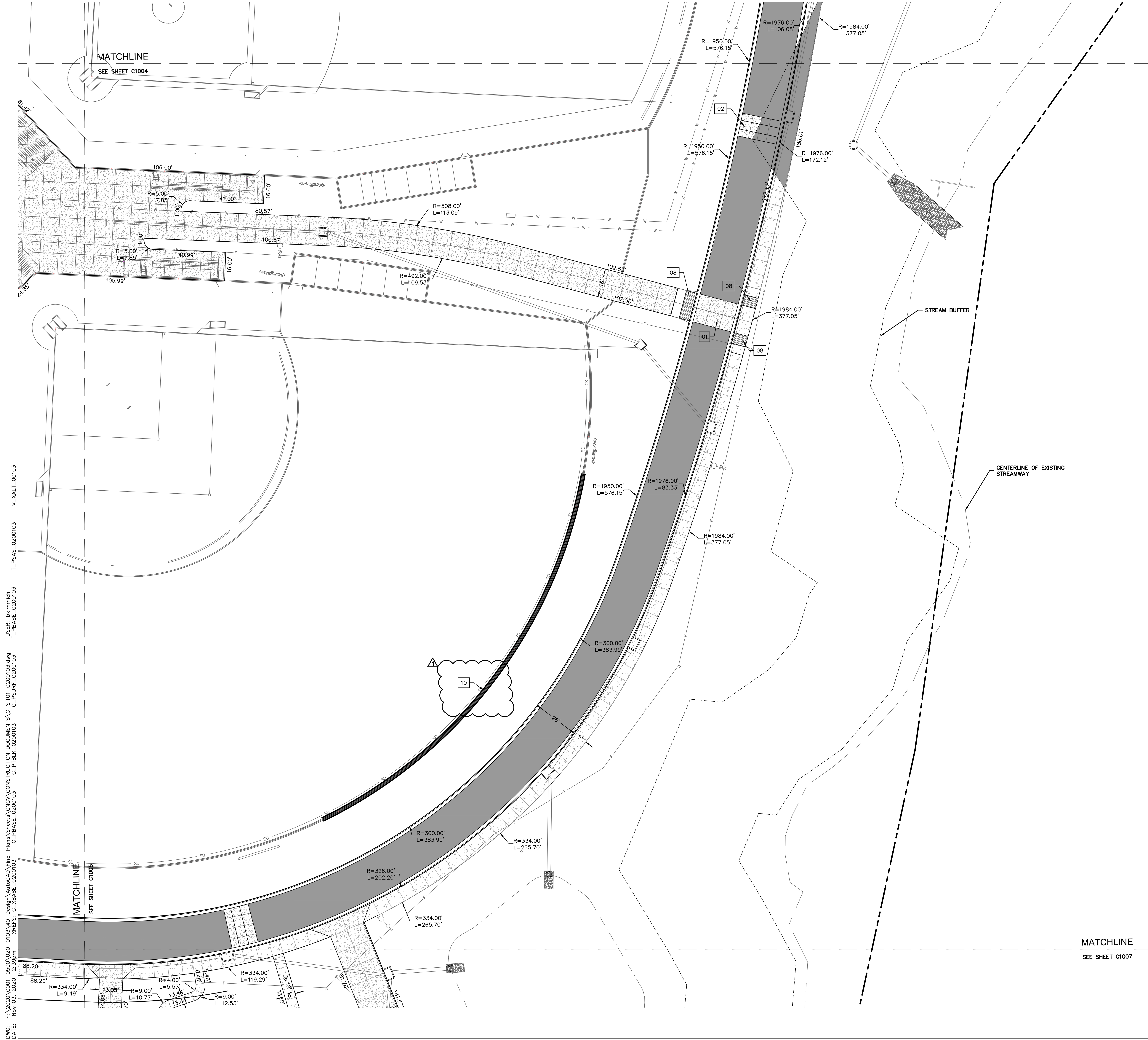
	PROPERTY LINE
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	SAWCUT PAVEMENT FULL DEPTH
	COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
	6" PCC CONCRETE PAVEMENT
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 - 03 DETENTION BASIN. RE: DETAILS
 - 04 REMOVABLE CONCRETE 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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RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020



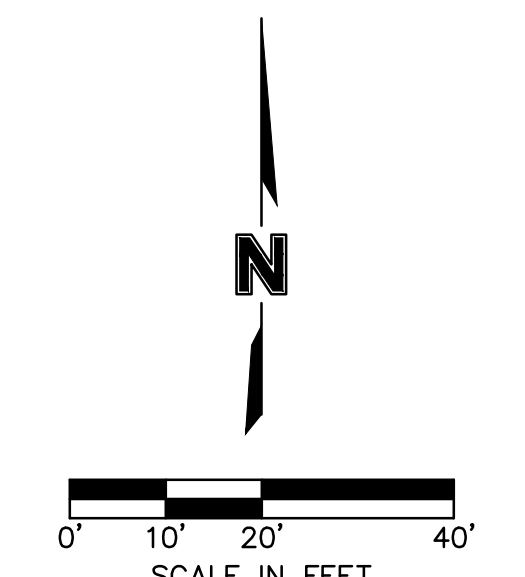


LEGEND

	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:** XX
- 01 HEAVY DUTY CONCRETE CROSSWALK. RE: DETAILS
 - 02 SPEED TABLE. RE: GRADING 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
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 - 17 HARDSCAPE JOINT PATTERN. RE: ARCH

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
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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

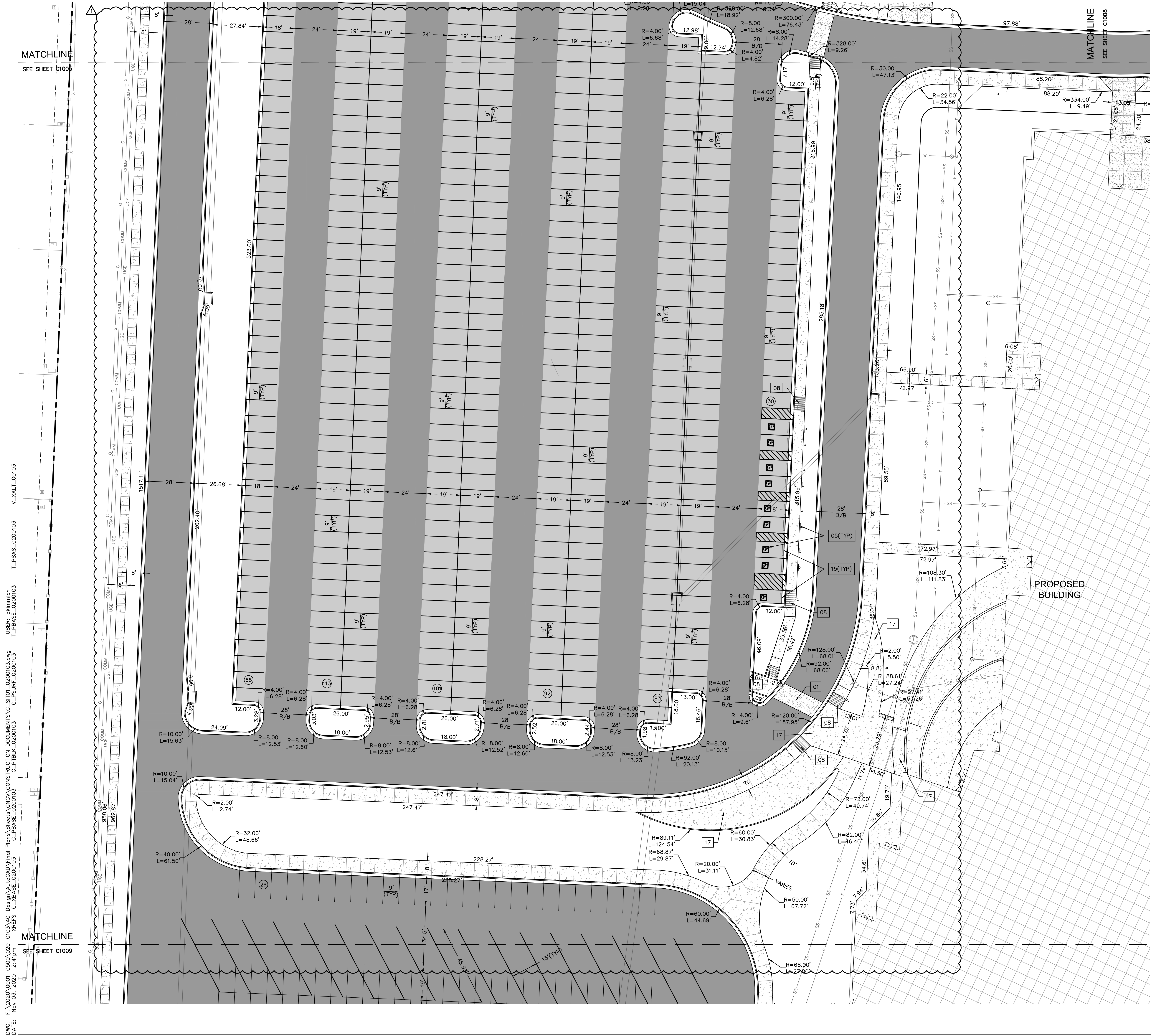
FINAL DEVELOPMENT PLAN
08/28/20
REVISIONS
REVISOR PER CITY COMMENTS 10.01.20
REVISOR PER CITY COMMENTS 11.04.20

13-20102-00

SITE DIMENSION PLAN

C1006

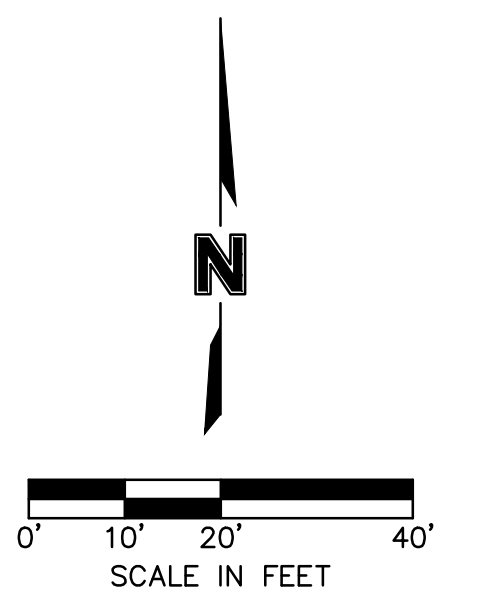
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- ### LEGEND
- PROPERTY LINE
 - CONCRETE CURB & GUTTER TYPE "CG-1"
 - CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
 - SAWCUT PAVEMENT FULL DEPTH
 - COMMERCIAL ENTRANCE
8" PCC CONCRETE PAVEMENT
 - 6" PCC CONCRETE PAVEMENT
 - CONCRETE SIDEWALK PAVEMENT
 - 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 CROSSWALK. RE: DETAILS
 - 02 SPEED TABLE. RE: GRADING DETAILS
 - 03 DETENTION BASIN. RE: DETAILS
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 - 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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020



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TERRY R. PARSONS
 NUMBER
 PE 291861865
 11/19/2020
 PROFESSIONAL ENGINEER

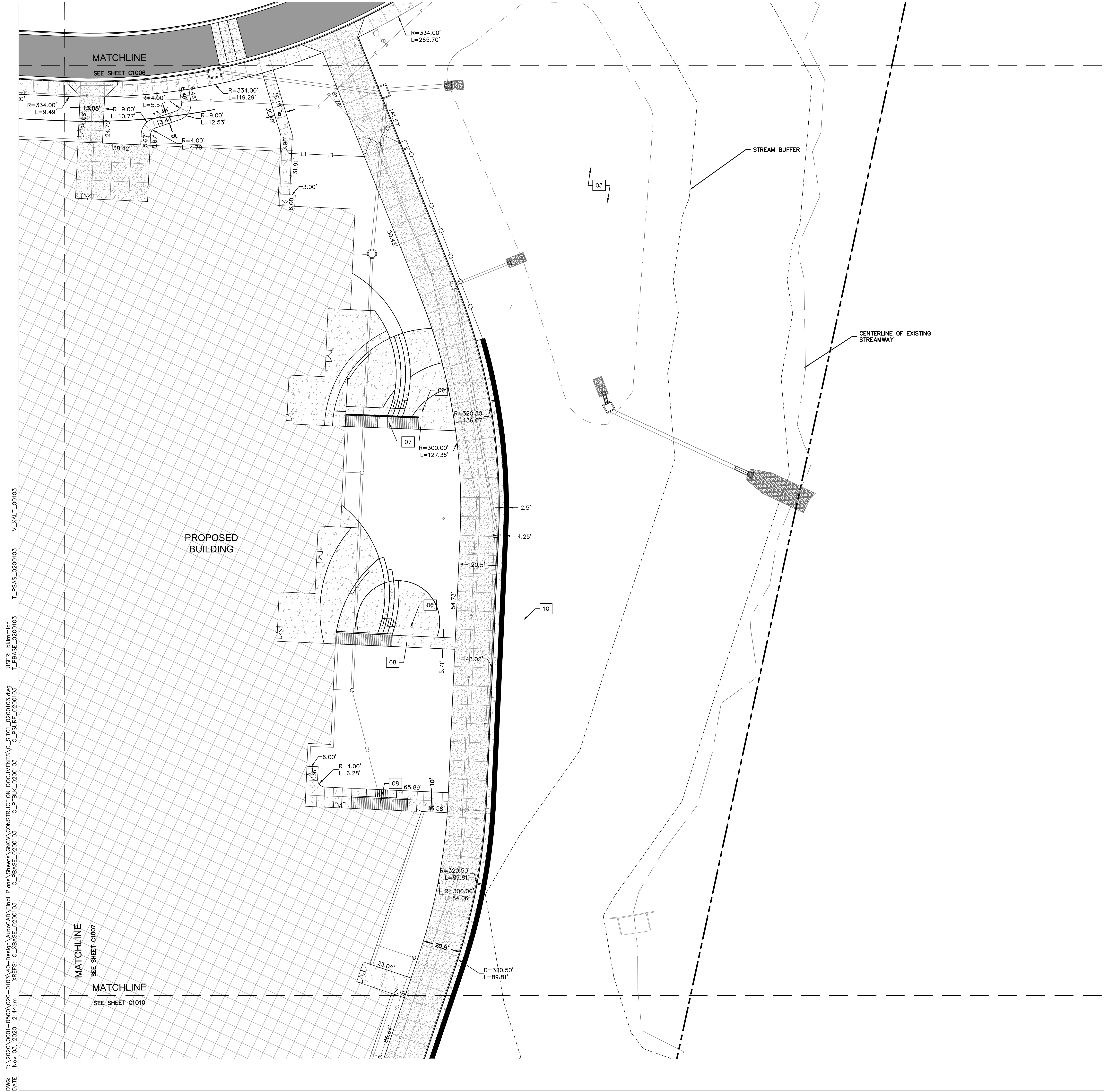
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 LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
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 SITE DIMENSION PLAN

C1007

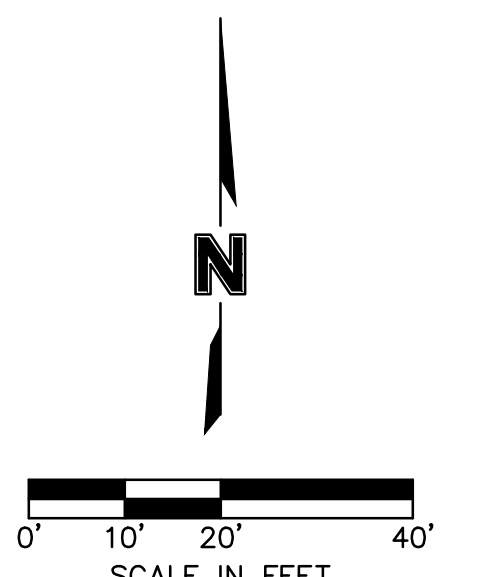


LEGEND

	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:** XX
- 01 HEAVY DUTY CONCRETE CROSSWALK. RE: DETAILS
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 - 17 HARDSCAPE JOINT PATTERN. RE: ARCH

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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FINAL DEVELOPMENT PLAN
 08/28/20

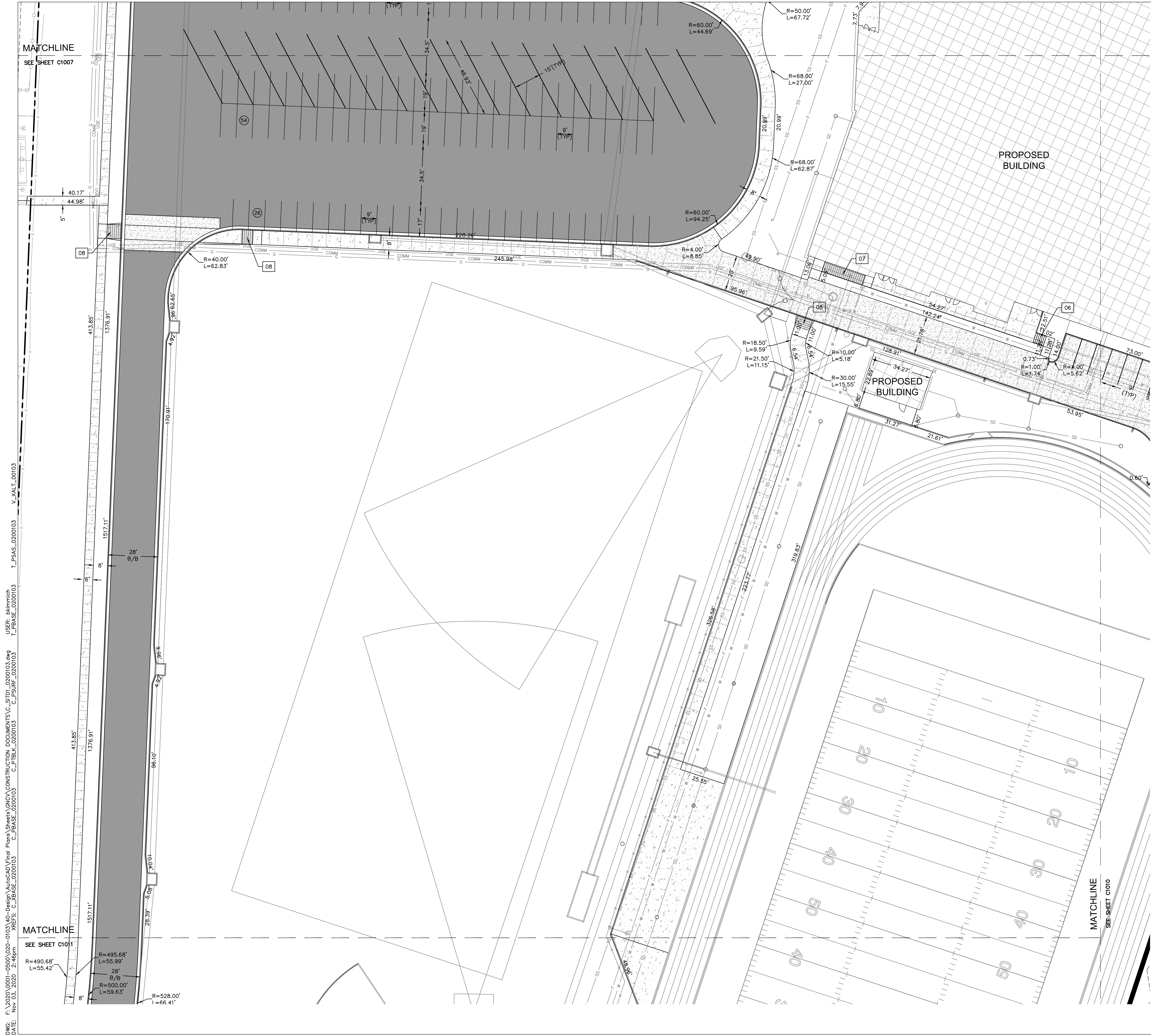
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SITE DIMENSION PLAN

C1008

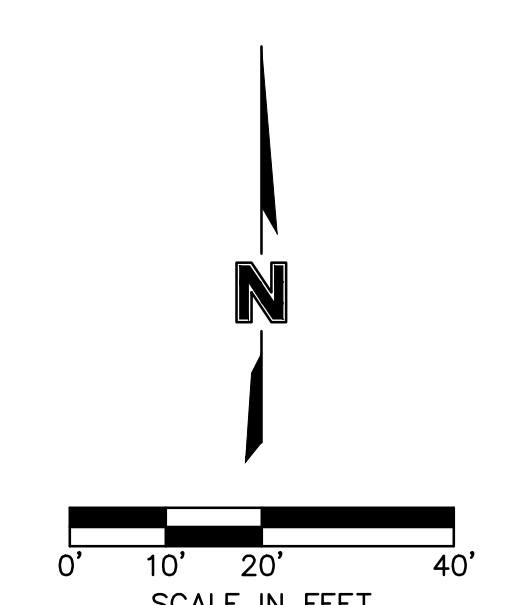


LEGEND

	PROPERTY LINE
	CONCRETE CURB & GUTTER TYPE "CG-1"
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	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:** XX
- 01 HEAVY DUTY CONCRETE CROSSWALK. RE: DETAILS
 - 02 SPEED TABLE. RE: GRADING DETAILS
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 - 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
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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
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 - 16 PAVEMENT STRIPING. RE: DETAILS
 - 17 HARDSCAPE JOINT PATTERN. RE: ARCH

RELEASE FOR
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
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FINAL DEVELOPMENT PLAN
08/28/20

REVISIONS

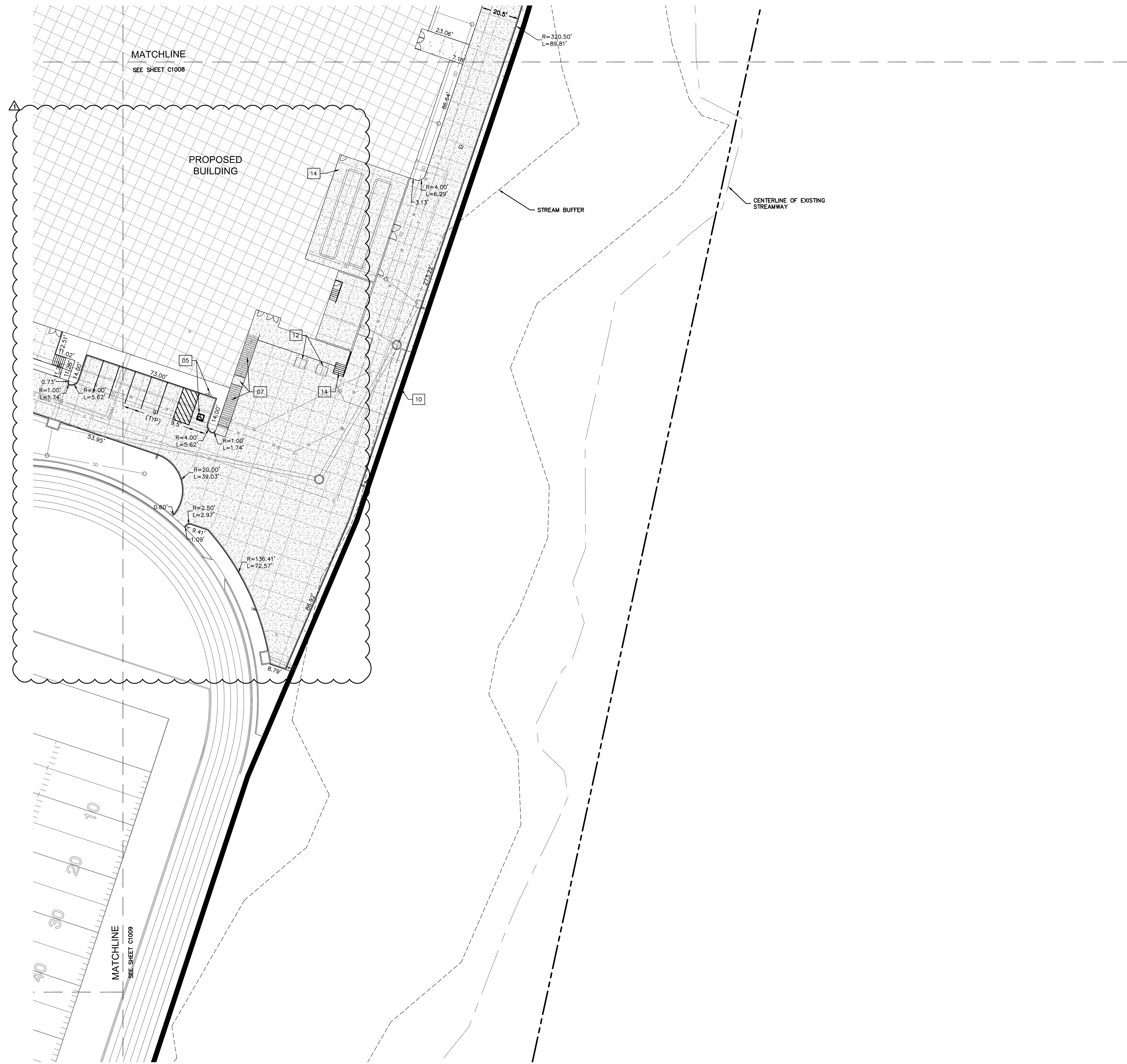
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SITE DIMENSION PLAN

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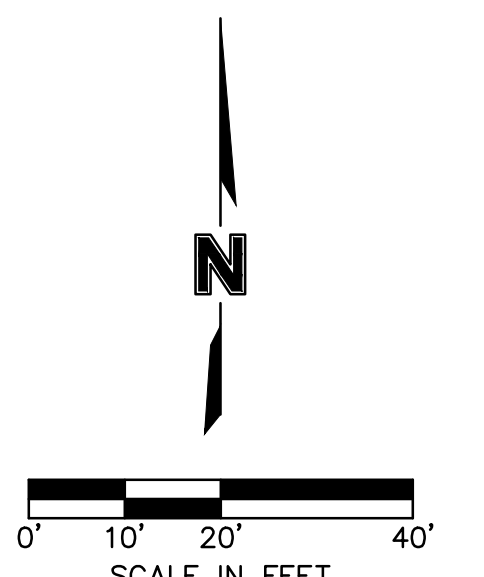


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	PROPERTY LINE
	CONCRETE CURB & GUTTER TYPE "CG-1"
	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
	SAWCUT PAVEMENT FULL DEPTH
	COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
	6" PCC CONCRETE PAVEMENT
	CONCRETE SIDEWALK PAVEMENT
	ASPHALT PAVEMENT - HEAVY DUTY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

- CONSTRUCTION KEYNOTES:** XX
- 01 HEAVY DUTY CONCRETE CROSSWALK. RE: DETAILS
 - 02 SPEED TABLE. RE: GRADING DETAILS
 - 03 DETENTION BASIN. RE: DETAILS
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 - 08 ADA RAMP. RE: DETAILS
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 - 14 PRE-FABRICATED METAL STAIRS AND HANDRAIL. RE: ARCH
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 - 16 PAVEMENT STRIPING. RE: DETAILS
 - 17 HARDSCAPE JOINT PATTERN. RE: ARCH

RELEASE FOR CONSTRUCTION
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 LEE'S SUMMIT, MISSOURI
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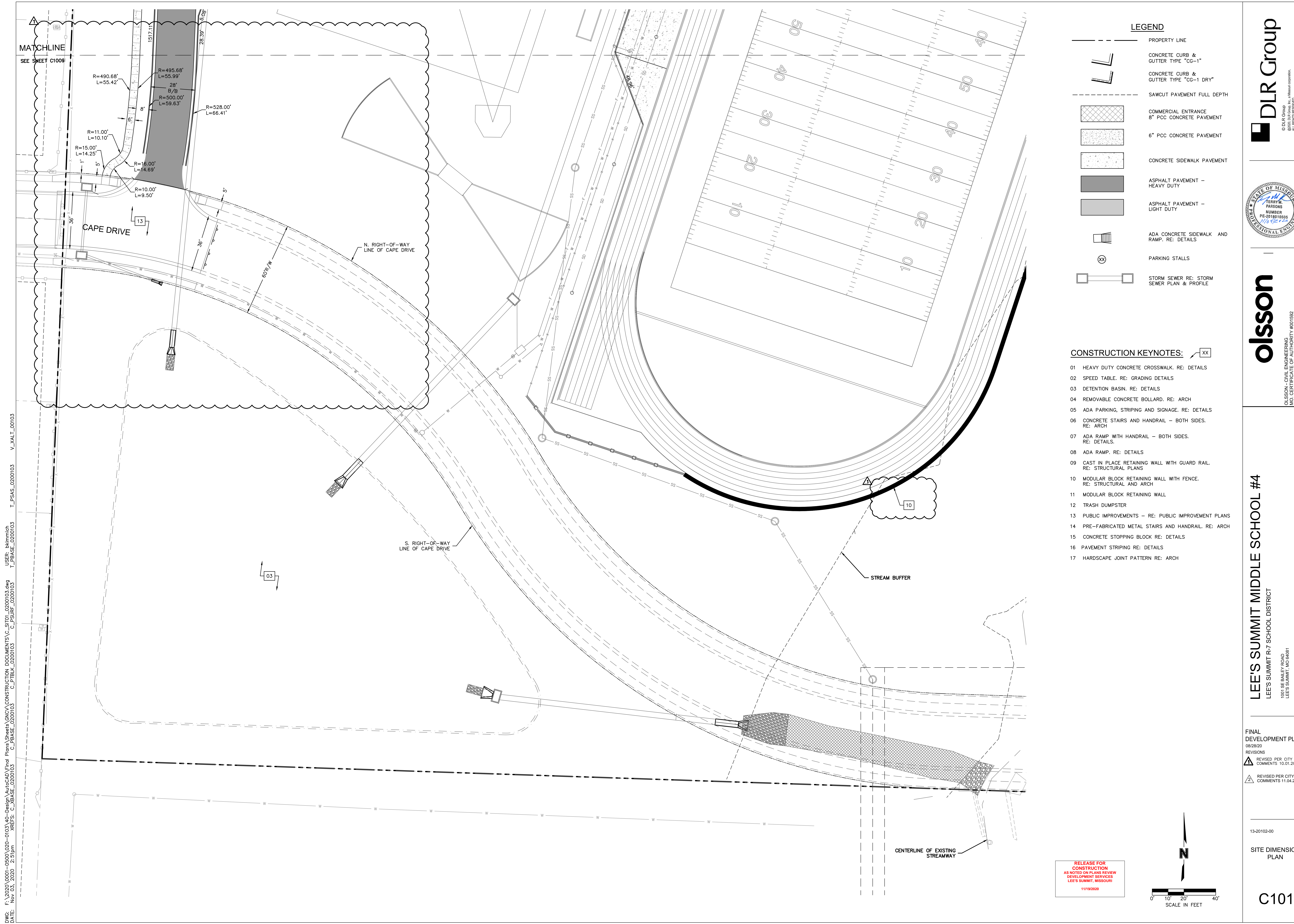
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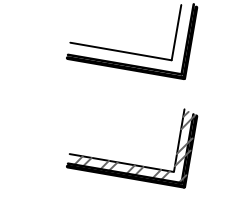
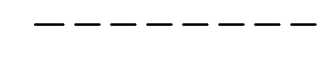
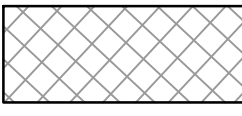
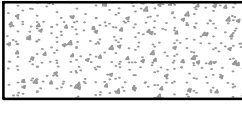
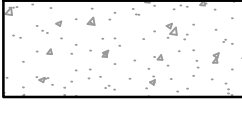


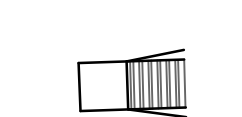

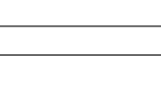

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
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 REVISIONS PER CITY COMMENTS 11.04.20

13-20102-00
 SITE DIMENSION PLAN

C1010



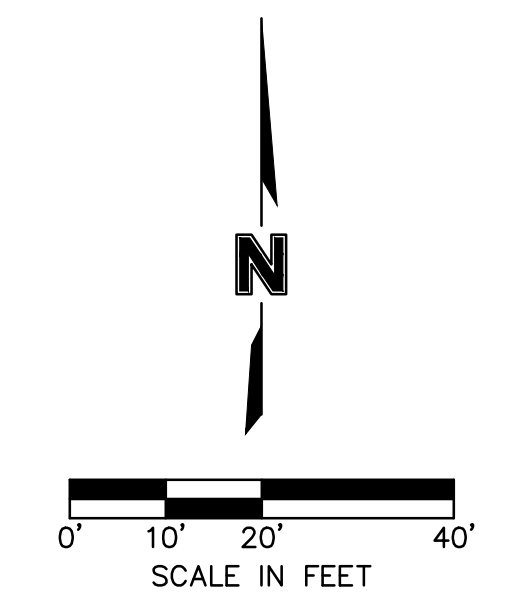
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-  PROPERTY LINE
-  CONCRETE CURB & GUTTER TYPE "CG-1"
-  CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
-  SAWCUT PAVEMENT FULL DEPTH
-  COMMERCIAL ENTRANCE 8" PCC CONCRETE PAVEMENT
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-  ASPHALT PAVEMENT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

CONSTRUCTION KEYNOTES: XX

- 01 HEAVY DUTY CONCRETE CROSSWALK. RE: DETAILS
- 02 SPEED TABLE. RE: GRADING DETAILS
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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


RELEASE FOR
CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD
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FINAL DEVELOPMENT PLAN
08/28/20

REVISIONS

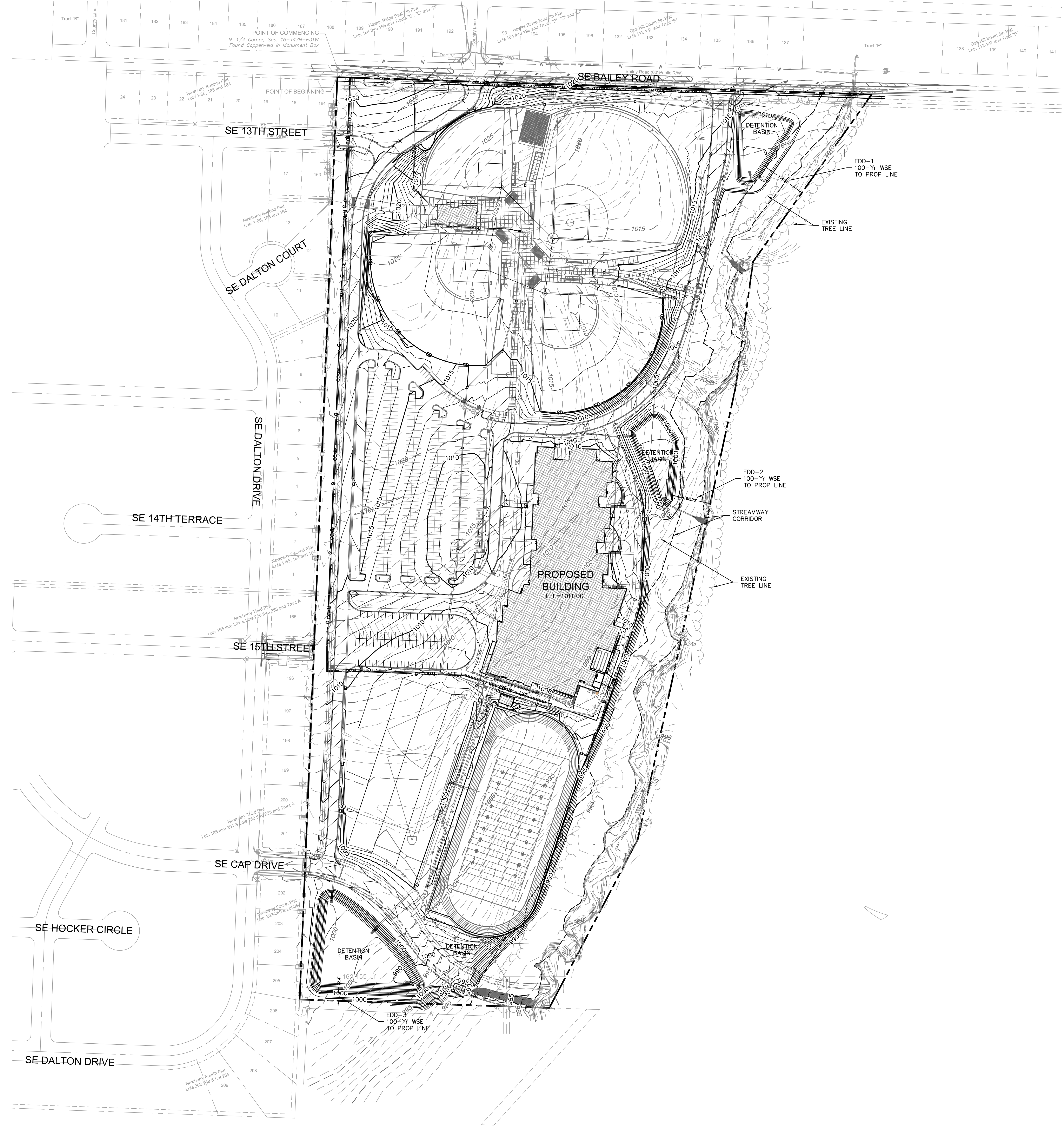
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SITE DIMENSION PLAN

C1011

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LEGEND

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

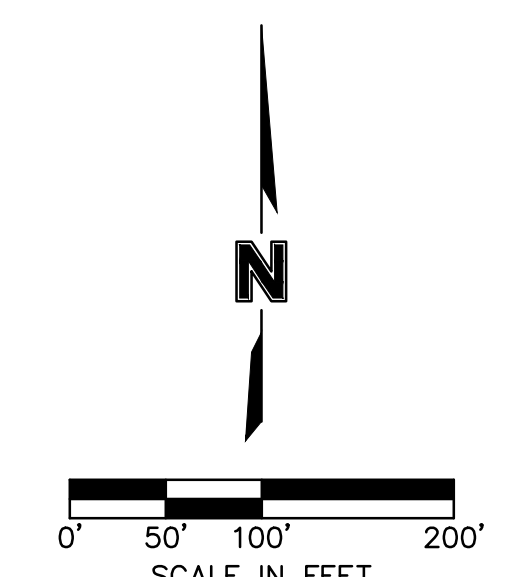
- NOTES:**
- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
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SPOT ELEVATION LEGEND

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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
 11/19/2020



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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 64081

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 [Symbol] REVISED PER CITY COMMENTS 10.01.20
 [Symbol] REVISED PER CITY COMMENTS 11.04.20

13-20102-00
 GRADING PLAN
C1012



LEGEND

---	PROPERTY LINE
- - - -	EXISTING MAJOR CONTOUR
- - - -	EXISTING MINOR CONTOUR
- - - -	PROPOSED MAJOR CONTOUR
- - - -	PROPOSED MINOR CONTOUR
[Hatched Box]	RAMP
[L-shaped Symbol]	CONCRETE CURB & GUTTER TYPE "CG-1"
[L-shaped Symbol]	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
[L-shaped Symbol]	CONCRETE CURB TYPE "C-1" MODIFIED
(X)	GRADING DETAIL DESIGNATION RE: SHEET C5.1 THRU C5.5

- NOTES:**
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RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020

SCALE IN FEET

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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

FINAL DEVELOPMENT PLAN
 08/28/20

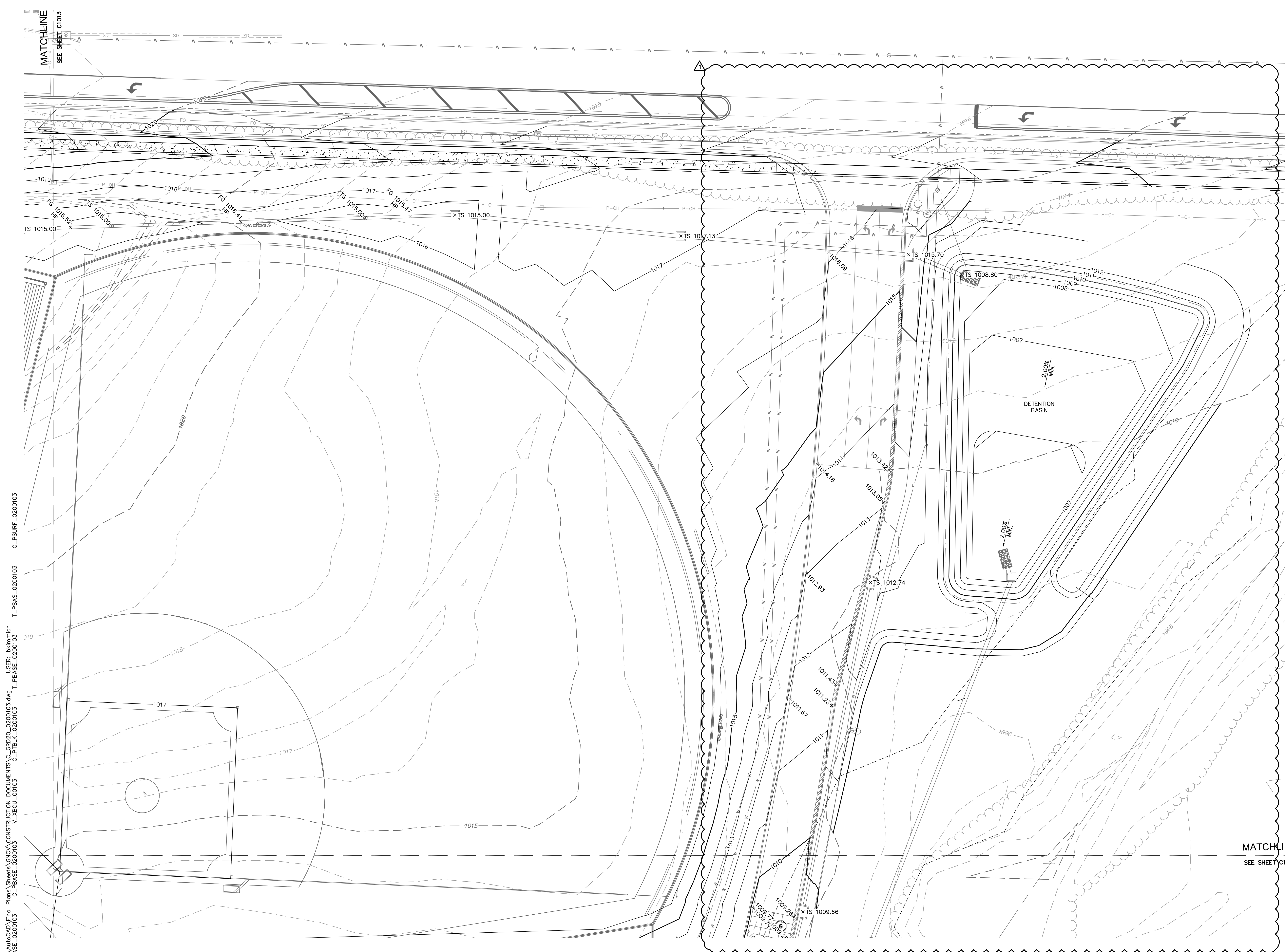
REVISIONS

△	REVISED PER CITY COMMENTS 10.01.20
△	REVISED PER CITY COMMENTS 11.04.20

13-20102-00

GRADING DETAILS

C1013



LEGEND

- PROPERTY LINE
- - - - - EXISTING MAJOR CONTOUR
- - - - - EXISTING MINOR CONTOUR
- - - - - PROPOSED MAJOR CONTOUR
- - - - - PROPOSED MINOR CONTOUR
- [Hatched Box] RAMP
- [L-shaped Symbol] CONCRETE CURB & GUTTER TYPE "CG-1"
- [L-shaped Symbol] CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
- [L-shaped Symbol] CONCRETE CURB TYPE "C-1" MODIFIED
- (X) GRADING DETAIL DESIGNATION RE: SHEET C5.1 THRU C5.5

NOTES:

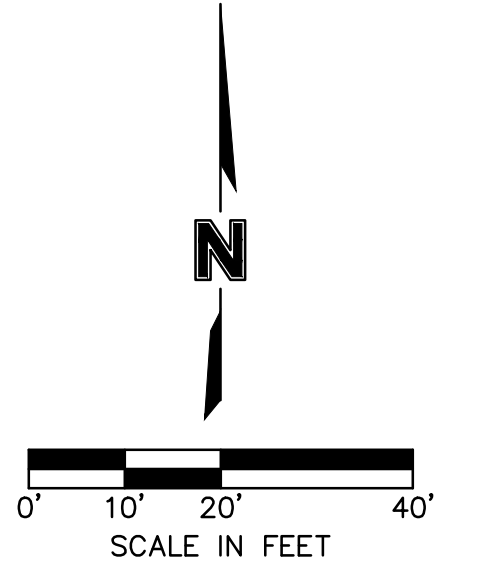
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SPOT ELEVATION LEGEND

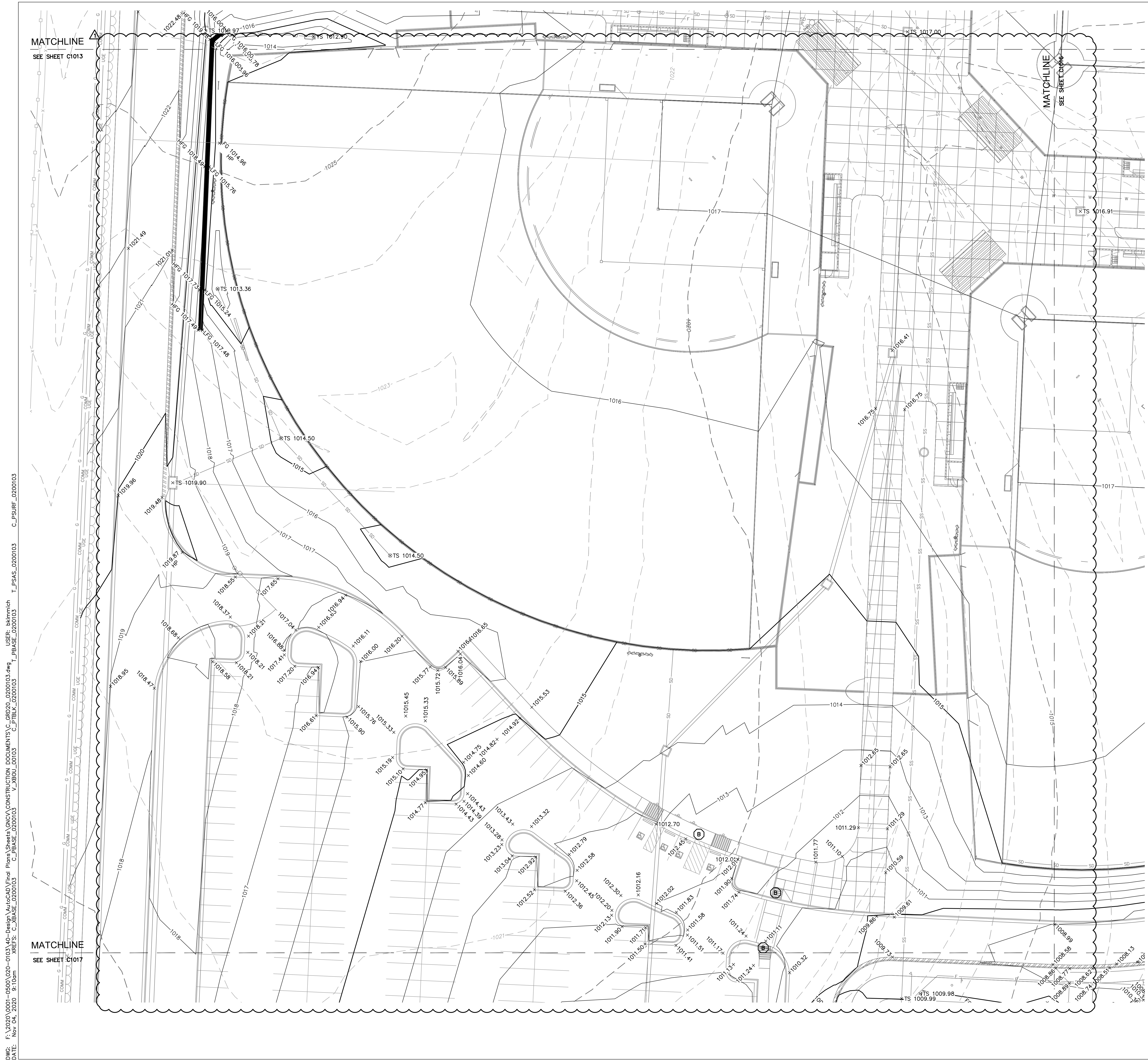
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 - HP= HIGH POINT
 - LP= LOW POINT
 - MATCH EX.= MATCH EXISTING
 - FFE= FINISH FLOOR ELEVATION AT TOP OF SLAB

MATCHLINE
SEE SHEET C1016

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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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

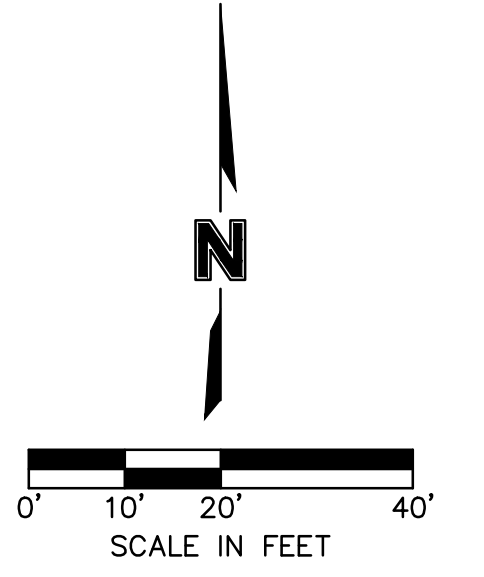
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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020



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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

FINAL DEVELOPMENT PLAN
 08/28/20

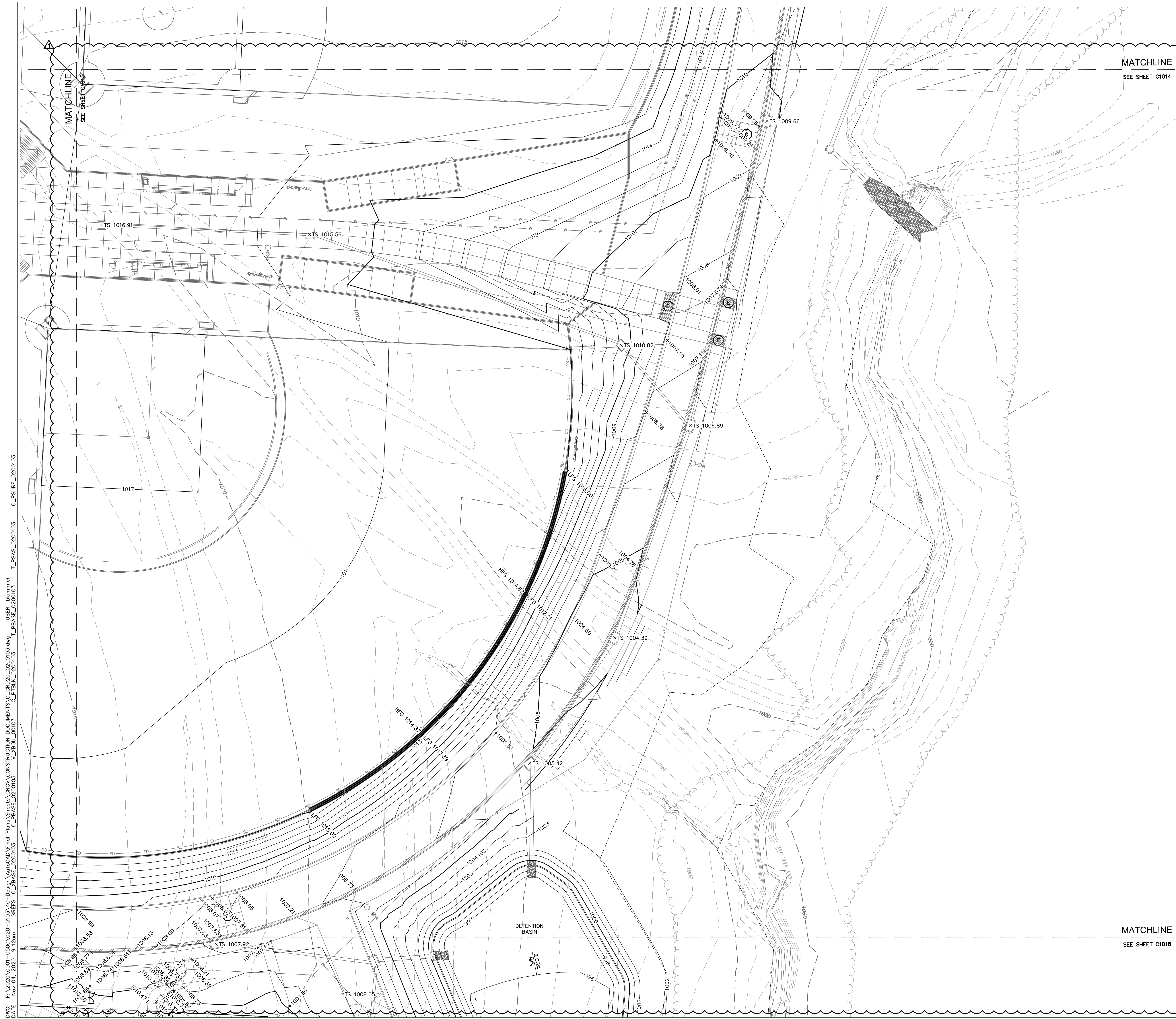
REVISIONS

	REVISED PER CITY COMMENTS 10.01.20
	REVISED PER CITY COMMENTS 11.01.20

13-20102-00

GRADING DETAILS

C1015



MATCHLINE
SEE SHEET C1014

MATCHLINE
SEE SHEET C1018

LEGEND

- PROPERTY LINE
- - - - - EXISTING MAJOR CONTOUR
- - - - - EXISTING MINOR CONTOUR
- - - - - PROPOSED MAJOR CONTOUR
- - - - - PROPOSED MINOR CONTOUR
- [Hatched Box] RAMP
- [Curb Profile] CONCRETE CURB & GUTTER TYPE "CG-1"
- [Curb Profile] CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
- [Curb Profile] CONCRETE CURB TYPE "C-1" MODIFIED
- (X) GRADING DETAIL DESIGNATION RE: SHEET C5.1 THRU C5.5

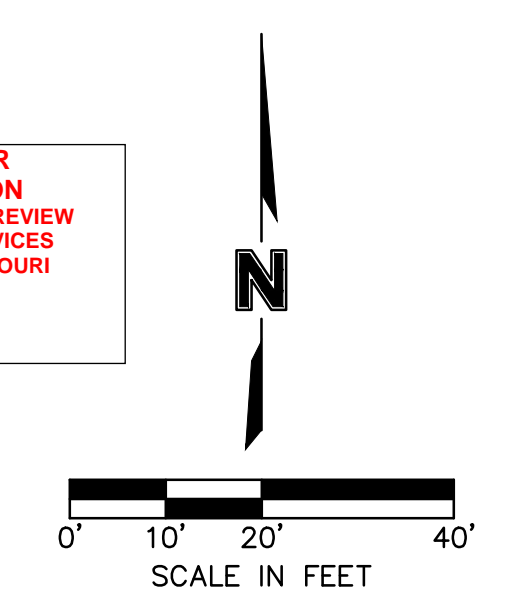
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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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

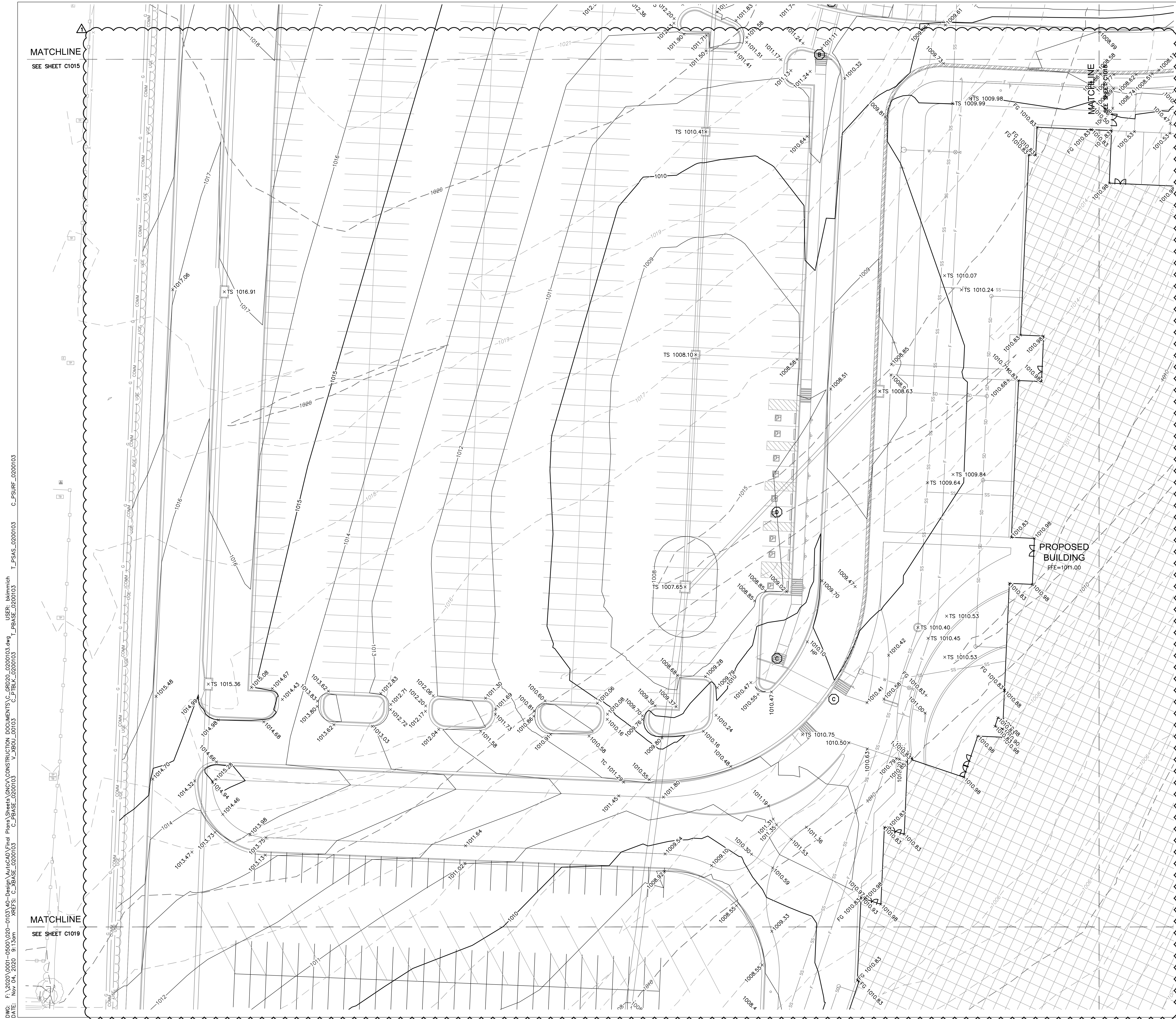
FINAL DEVELOPMENT PLAN
08/28/20

REVISIONS
 Δ REVISED PER CITY COMMENTS 10.01.20
 Δ REVISED PER CITY COMMENTS 11.04.20

13-20102-00

GRADING DETAILS

C1016



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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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020

SCALE IN FEET

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MATCHLINE
SEE SHEET C1015

MATCHLINE
SEE SHEET C1019

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 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

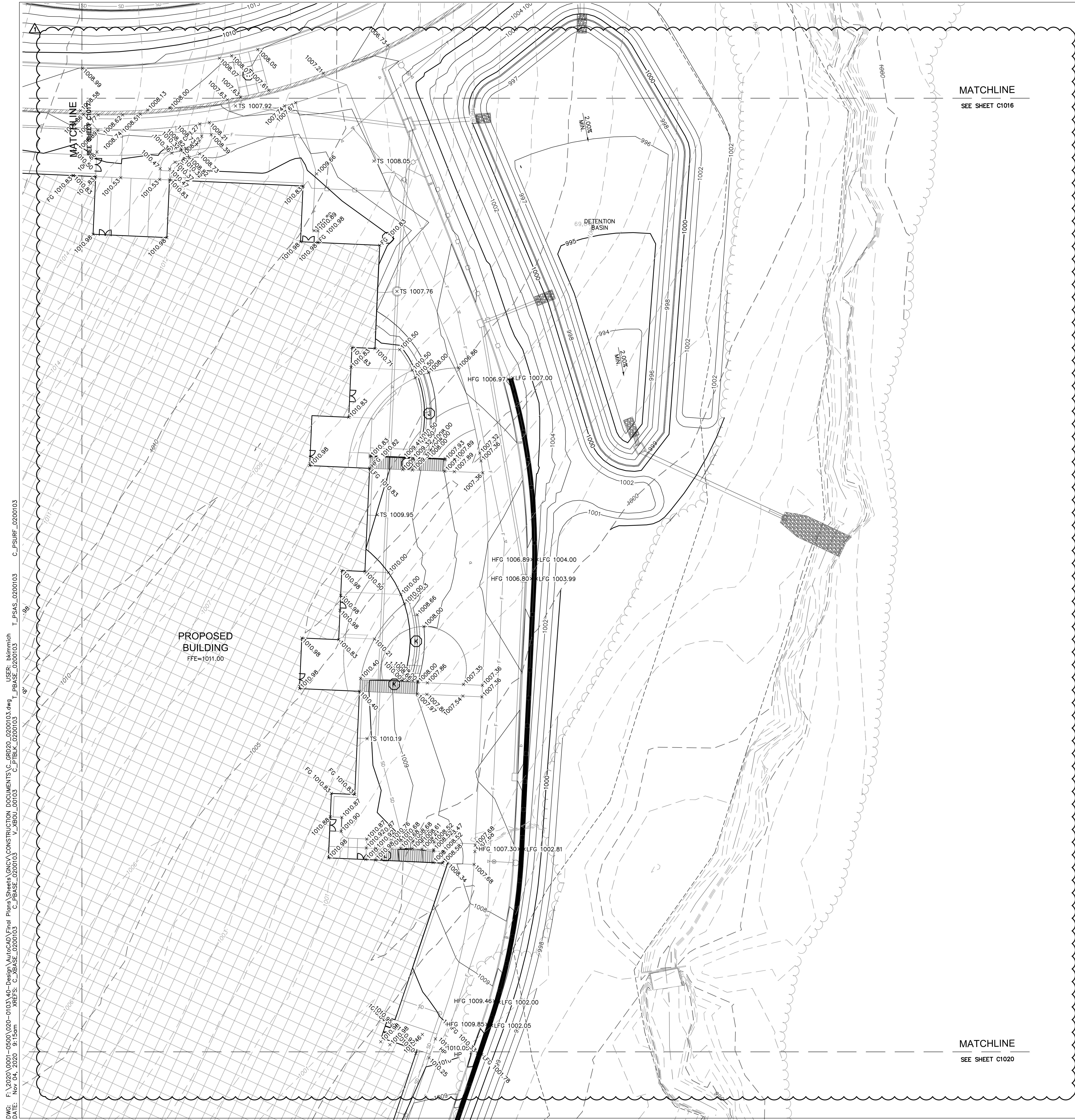
FINAL DEVELOPMENT PLAN
 08/28/20

REVISIONS
 Δ REVISIONS PER CITY COMMENTS 10.01.20
 Δ REVISIONS PER CITY COMMENTS 11.01.20

13-20102-00

GRADING DETAILS

C1017



MATCHLINE
SEE SHEET C1016

MATCHLINE
SEE SHEET C1020

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

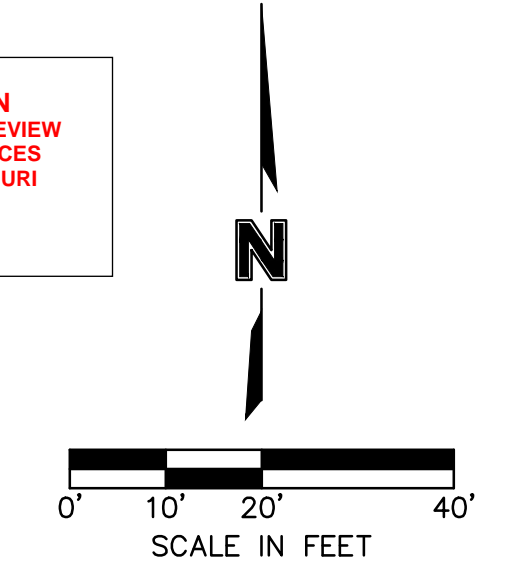
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT MISSOURI
11/19/2020



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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

13-20102-00

FINAL DEVELOPMENT PLAN
08/28/20

REVISIONS

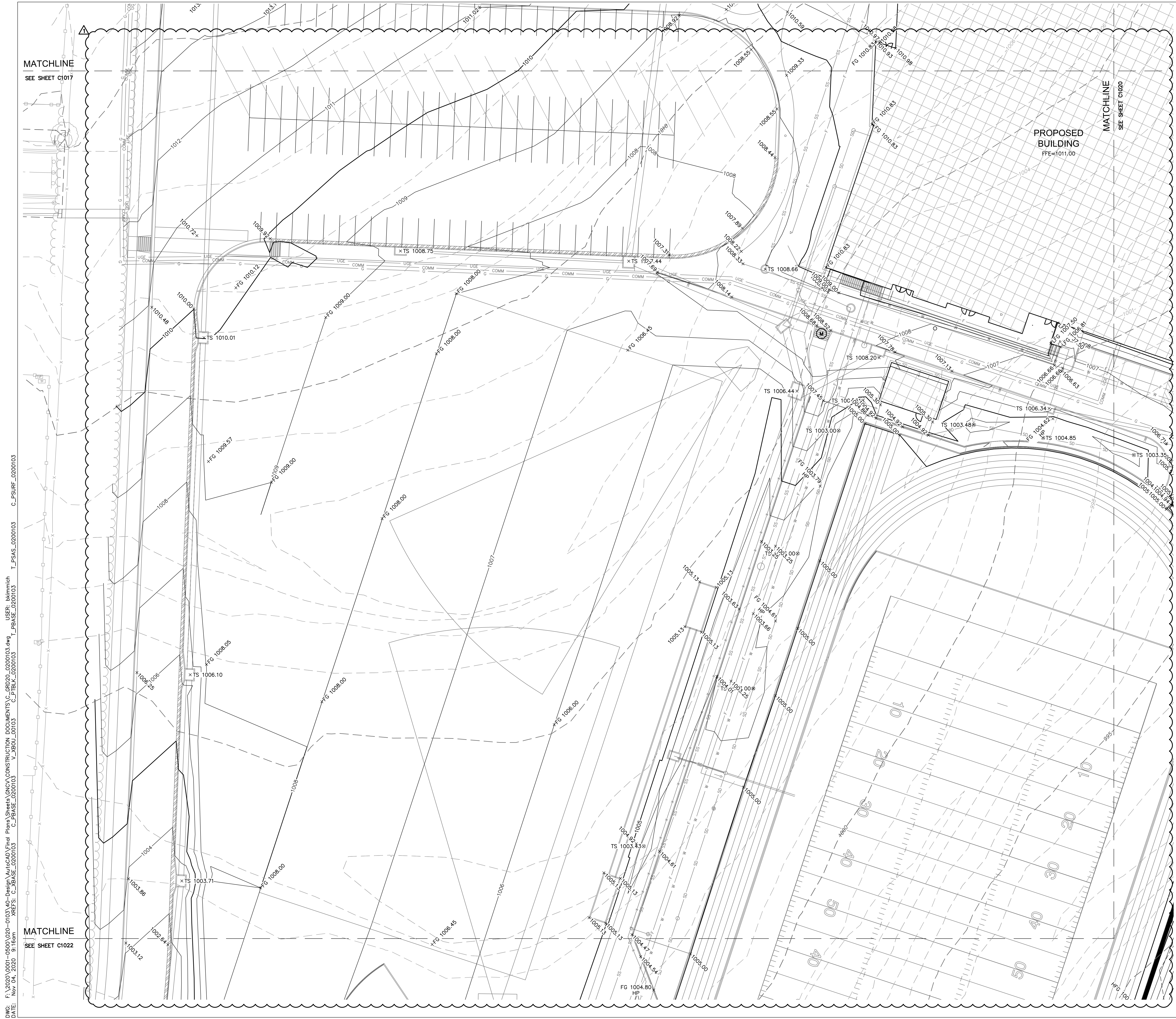
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C1018



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"
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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020

FINAL DEVELOPMENT PLAN
08/28/20

REVISIONS
 REVISED PER CITY COMMENTS 10/01/20
 REVISED PER CITY COMMENTS 11/04/20

13-20102-00
GRADING DETAILS

0' 10' 20' 40'
 SCALE IN FEET

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 11/8/2020
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 Overland Park, KS 66213-7750
 TEL: 913.381.1170
 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

C1019



MATCHLINE
SEE SHEET C1018

LEGEND

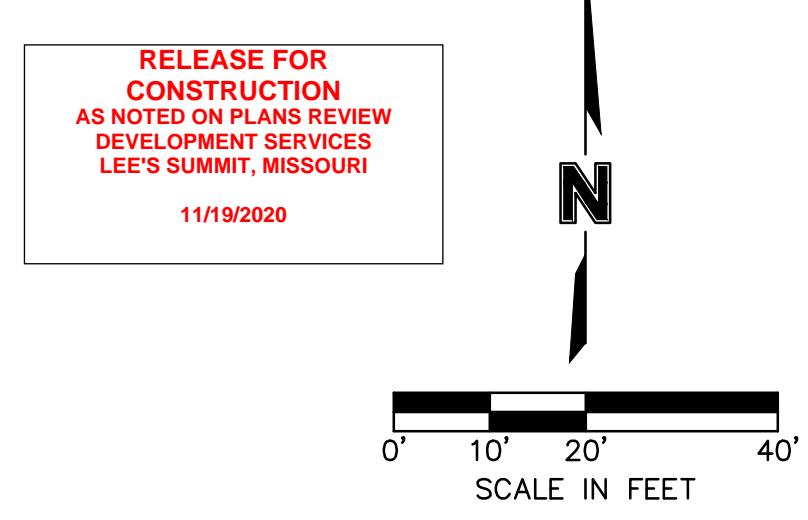
	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
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	PROPOSED MINOR CONTOUR
	RAMP
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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020

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FINAL DEVELOPMENT PLAN
 08/28/20

REVISIONS

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	REVISED PER CITY COMMENTS 11.04.20

13-20102-00

GRADING DETAILS

C1020



MATCHLINE
SEE SHEET C1019

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 C1022 THRU C1023

- 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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
11/19/2020

SCALE IN FEET

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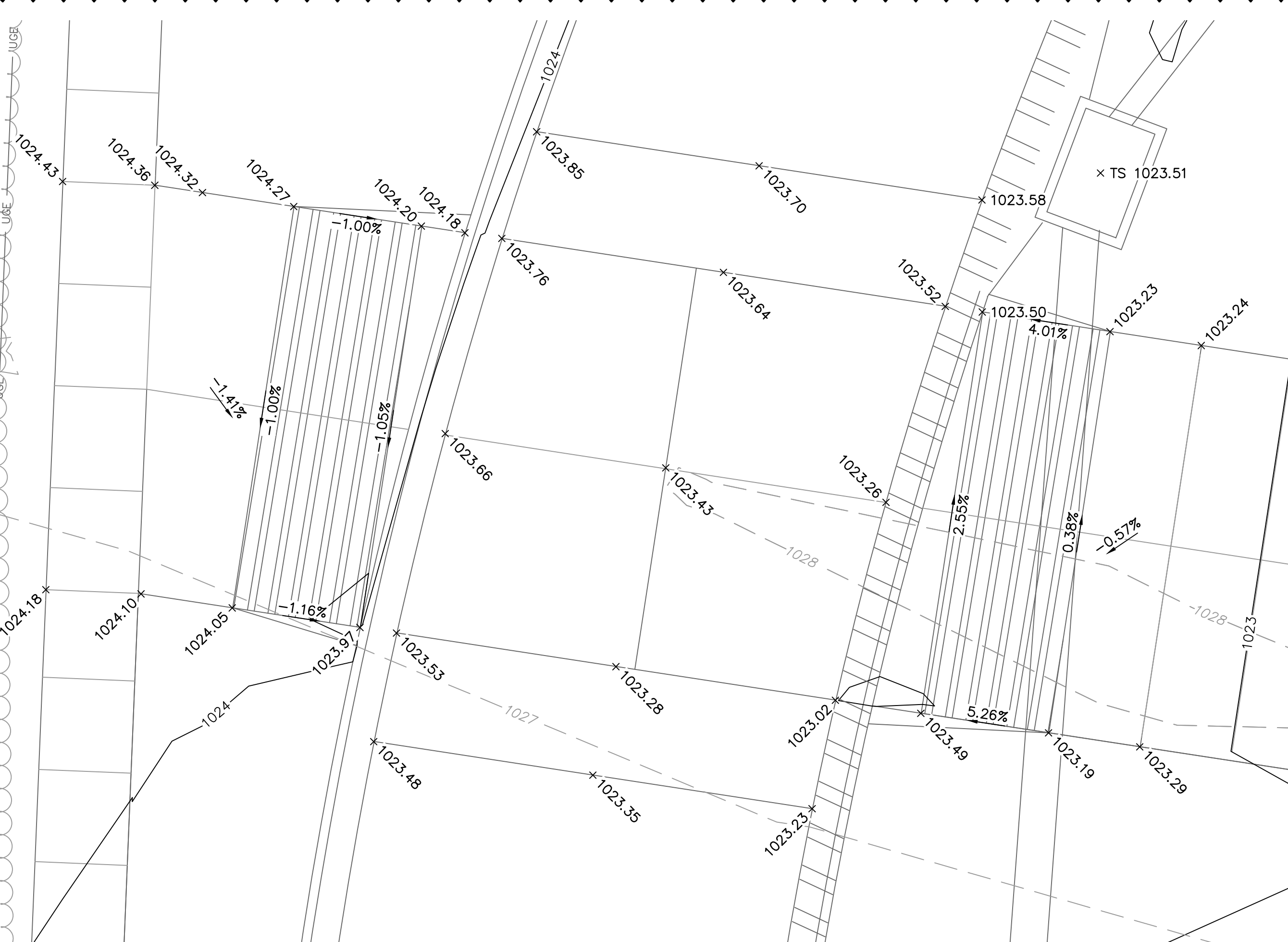
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LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

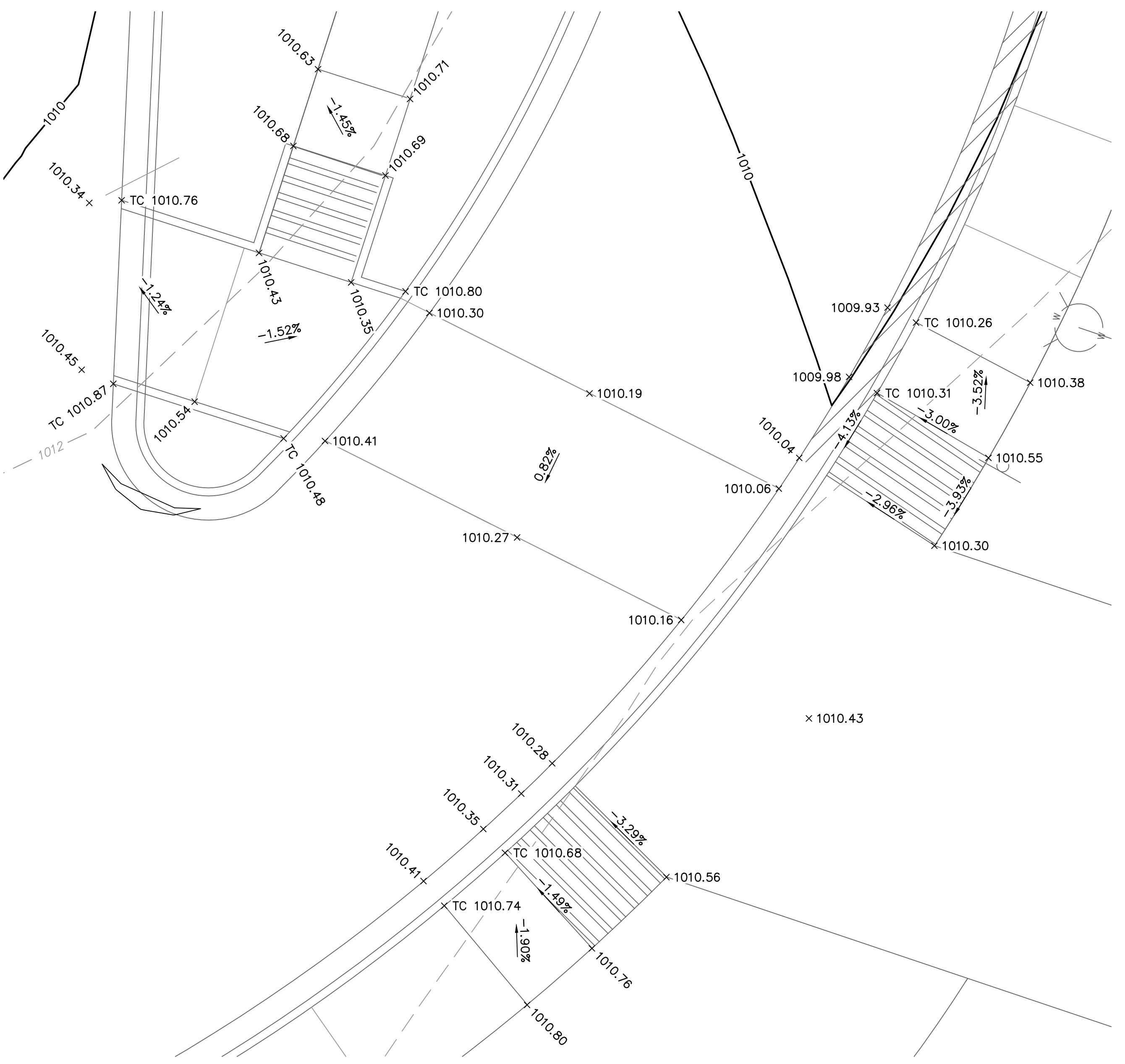
FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 REVISIONS PER CITY COMMENTS 10.01.20
 REVISIONS PER CITY COMMENTS 11.04.20

13-20102-00
 GRADING DETAILS
C1021

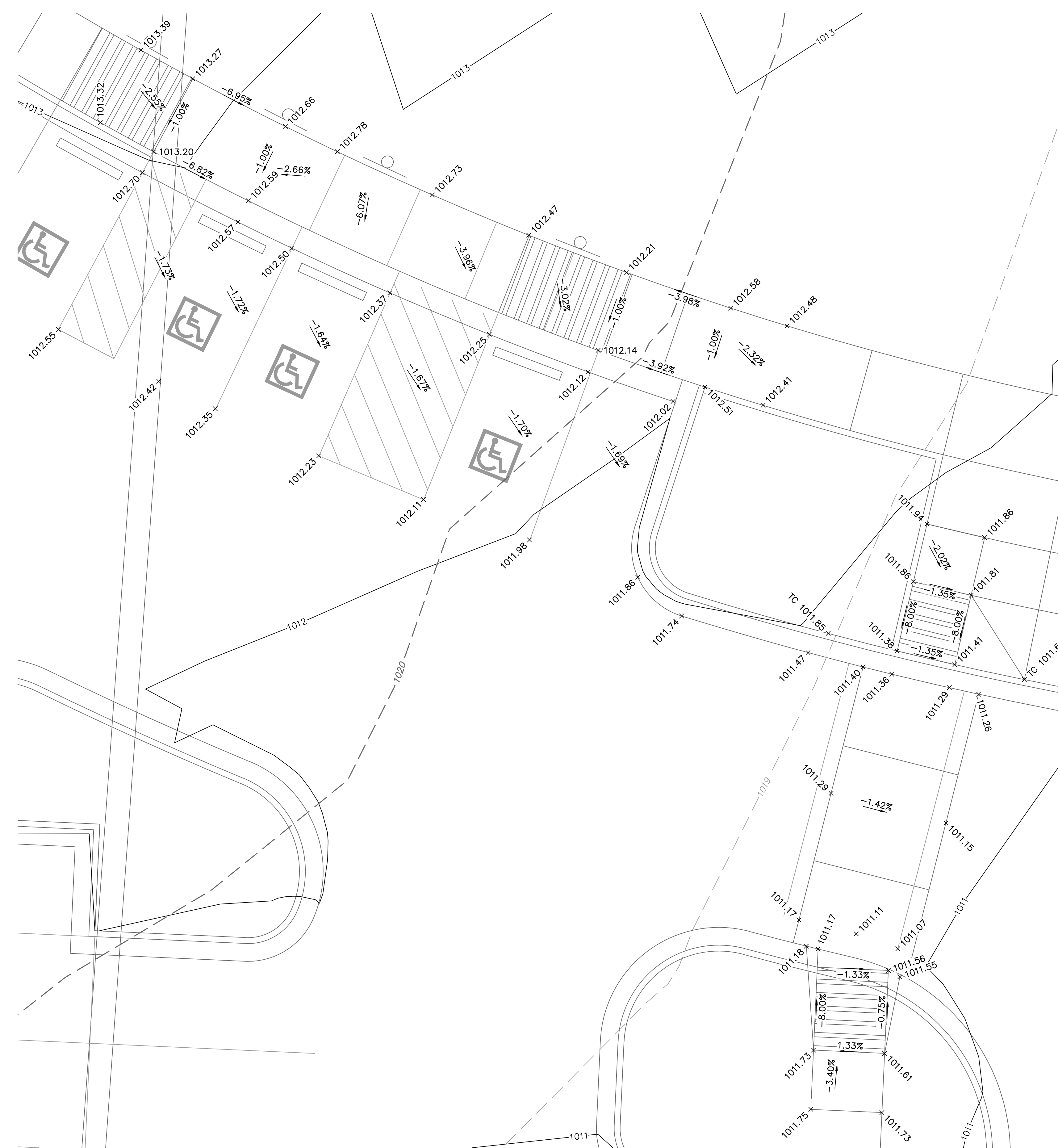
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GRADING DETAIL A
 SCALE: 1"=5'



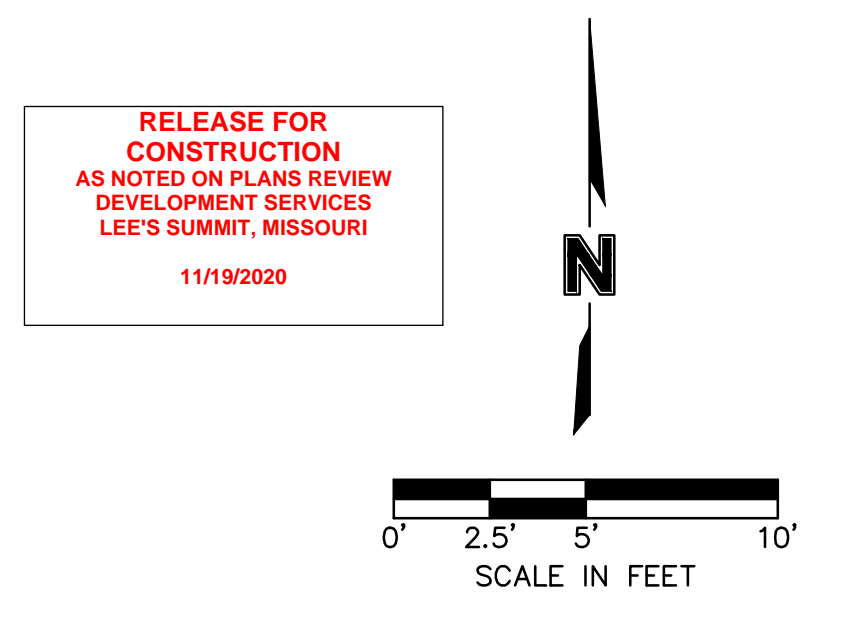
GRADING DETAIL C
 SCALE: 1"=5'



GRADING DETAIL B
 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

- 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%.
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RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
 11/19/2020

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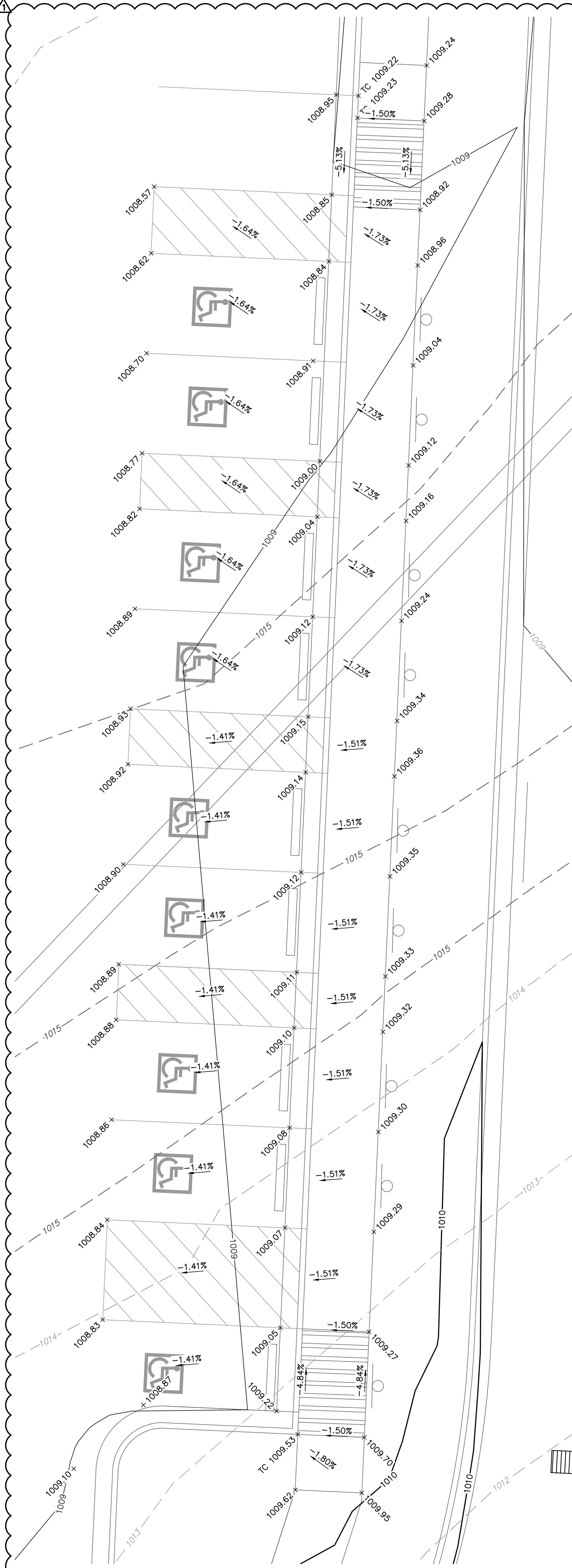
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 LEE'S SUMMIT, MO 64881

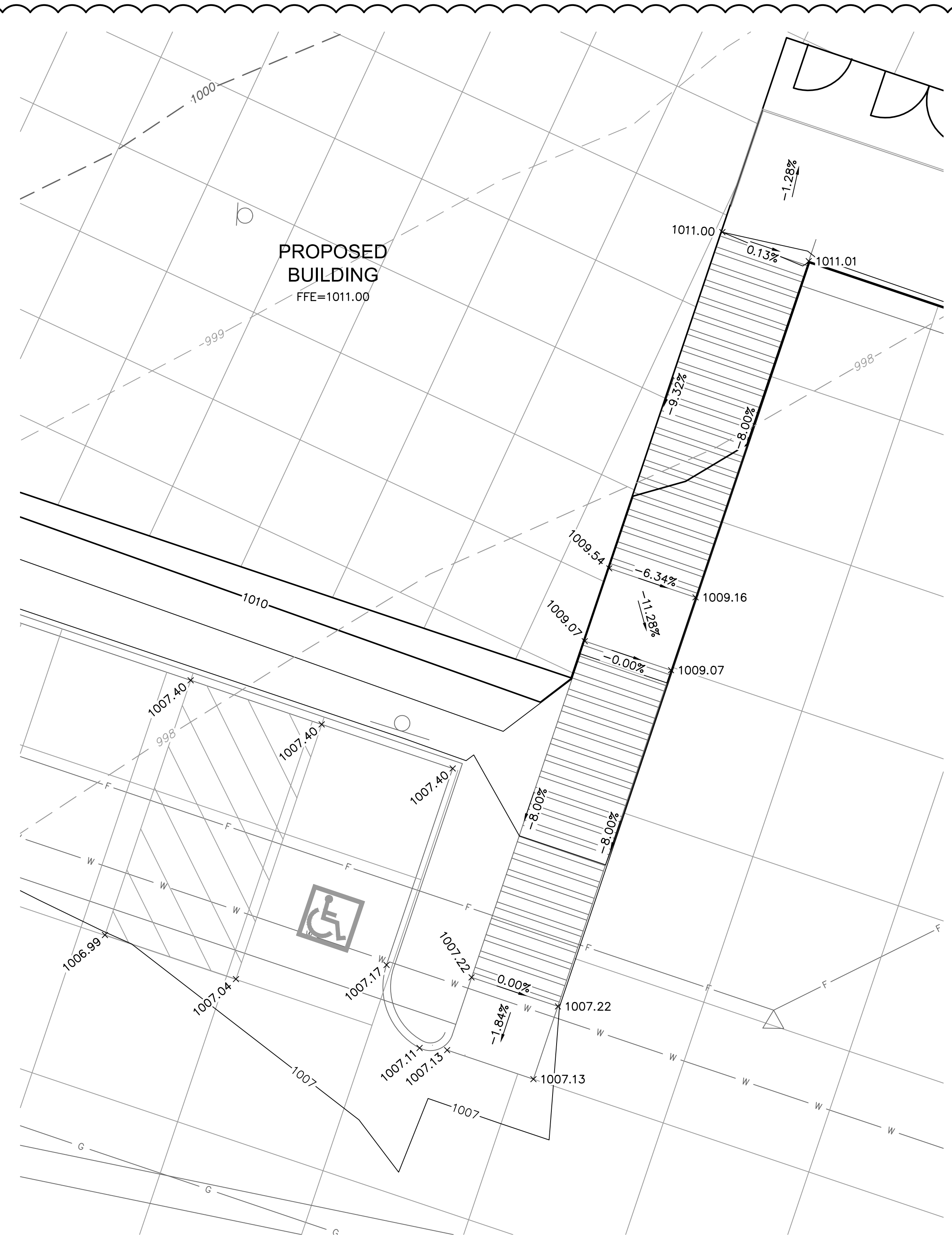
FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 Δ REVISIONS PER CITY COMMENTS 10.01.20
 Δ REVISIONS PER CITY COMMENTS 11.04.20

13-20102-00
GRADING DETAILS
C1022

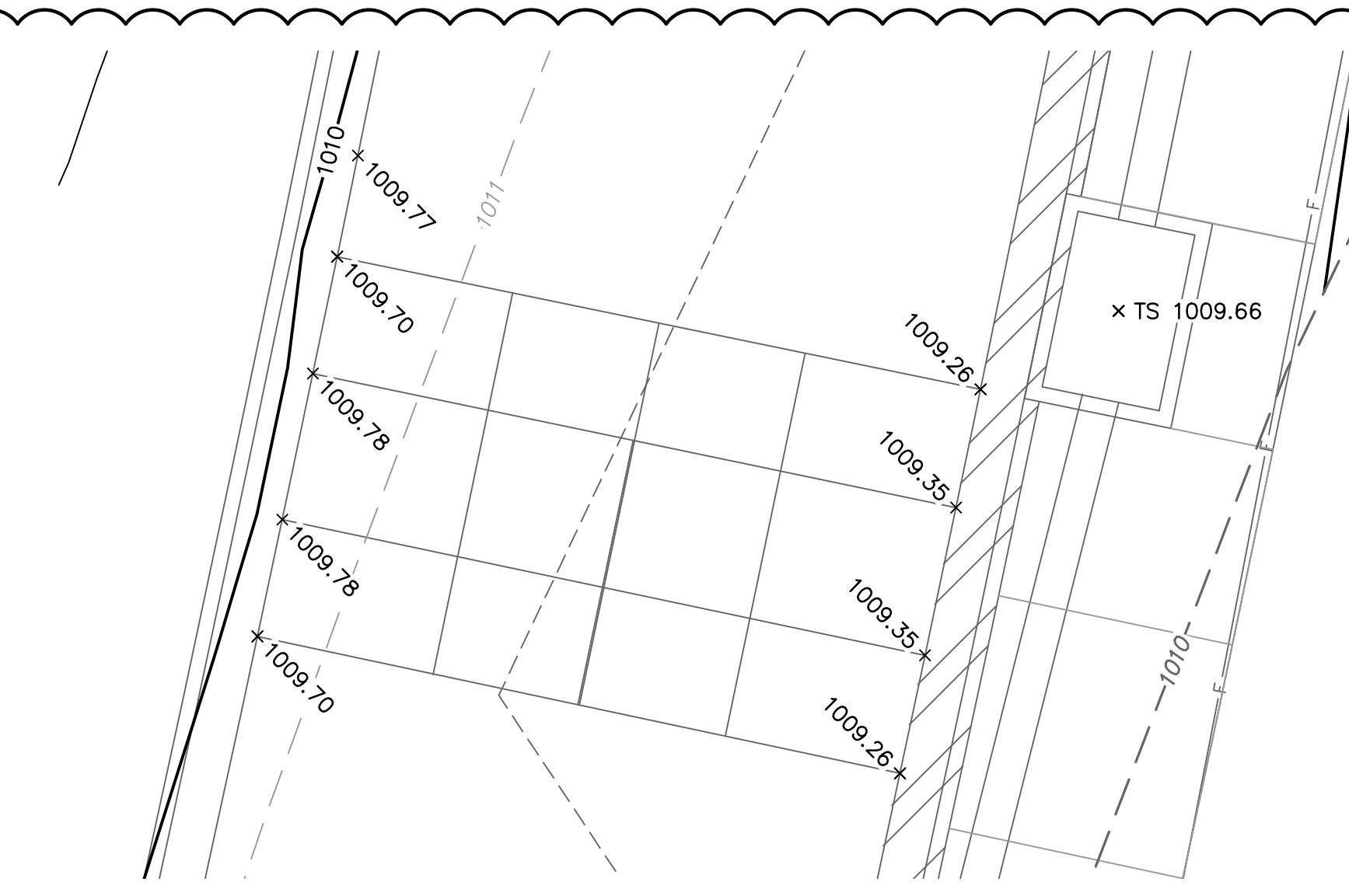
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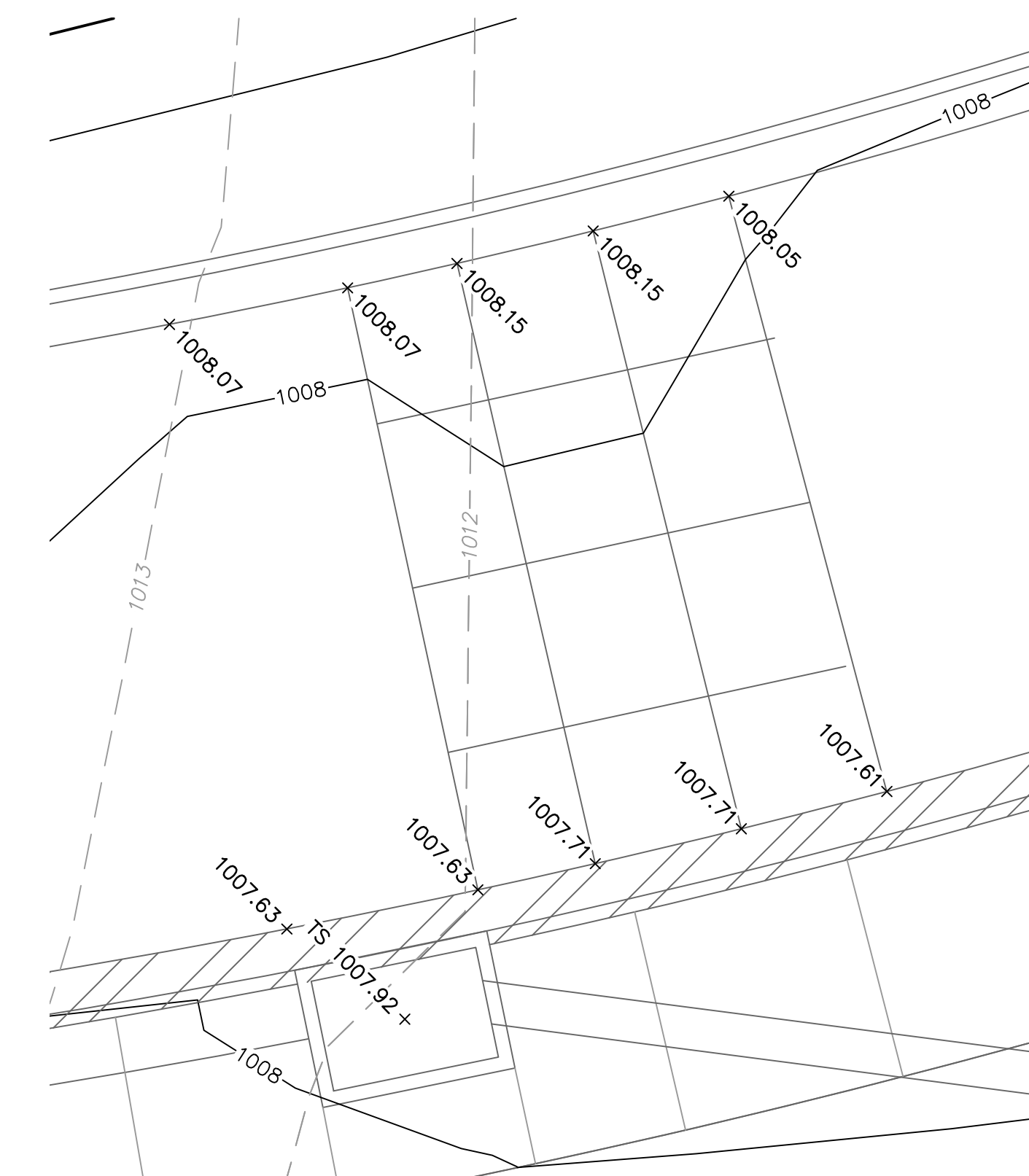
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SCALE: 1"=5'



GRADING DETAIL E
SCALE: 1"=5'



GRADING DETAIL G
SCALE: 1"=5'



GRADING DETAIL H
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"
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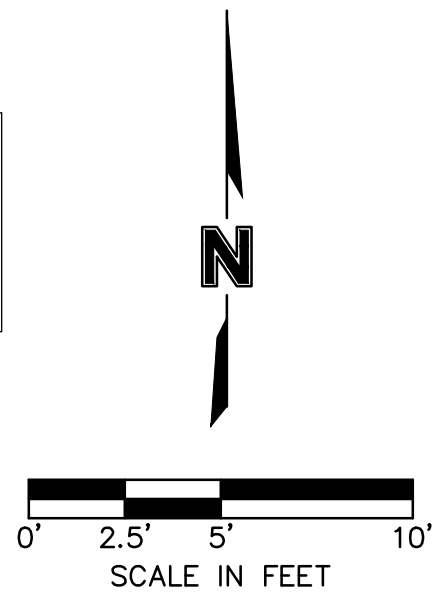
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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020



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STATE OF MISSOURI
TERRY H. PARSONS
NUMBER PE-291861855
11/6/2020
PROFESSIONAL ENGINEER

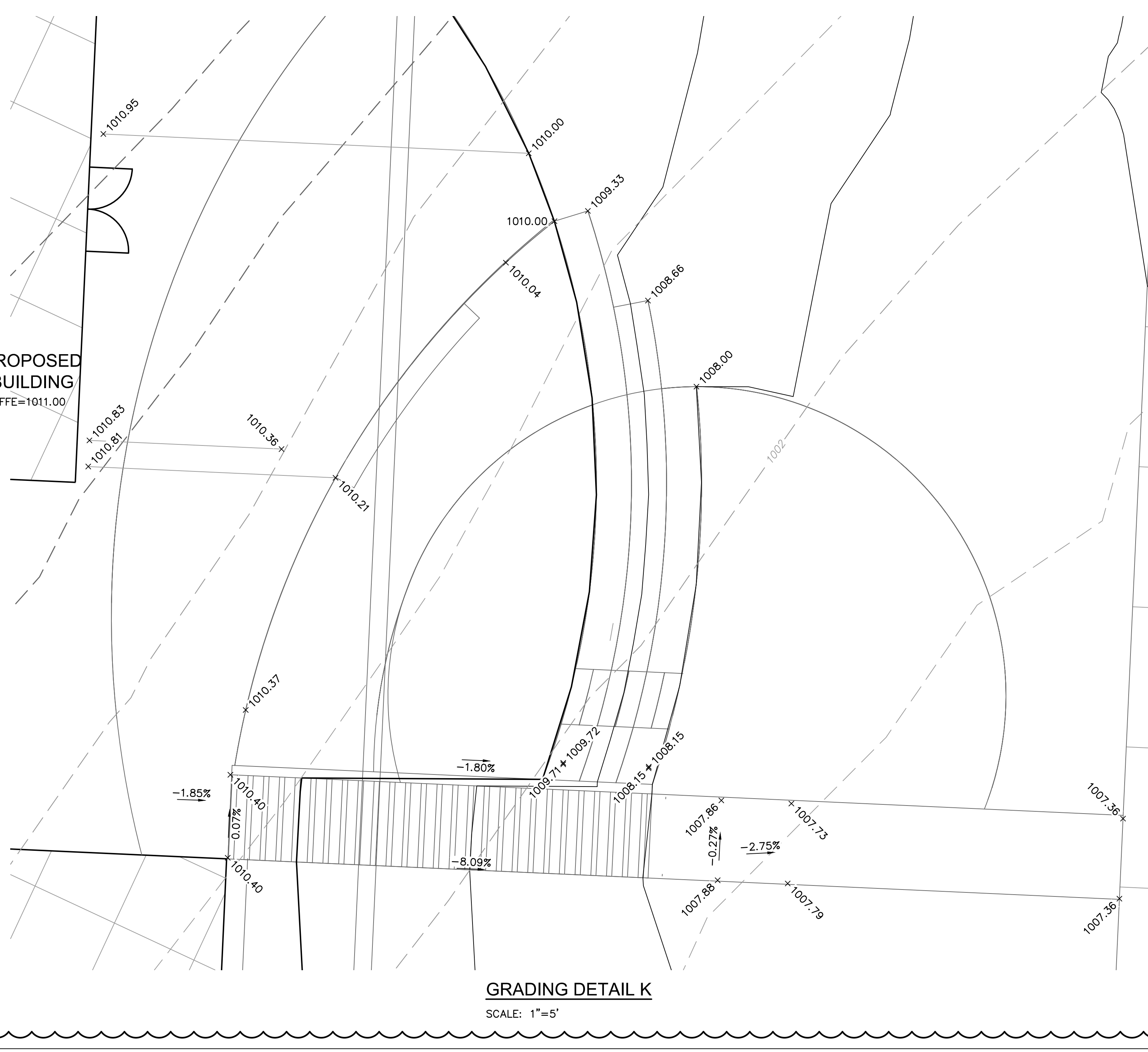
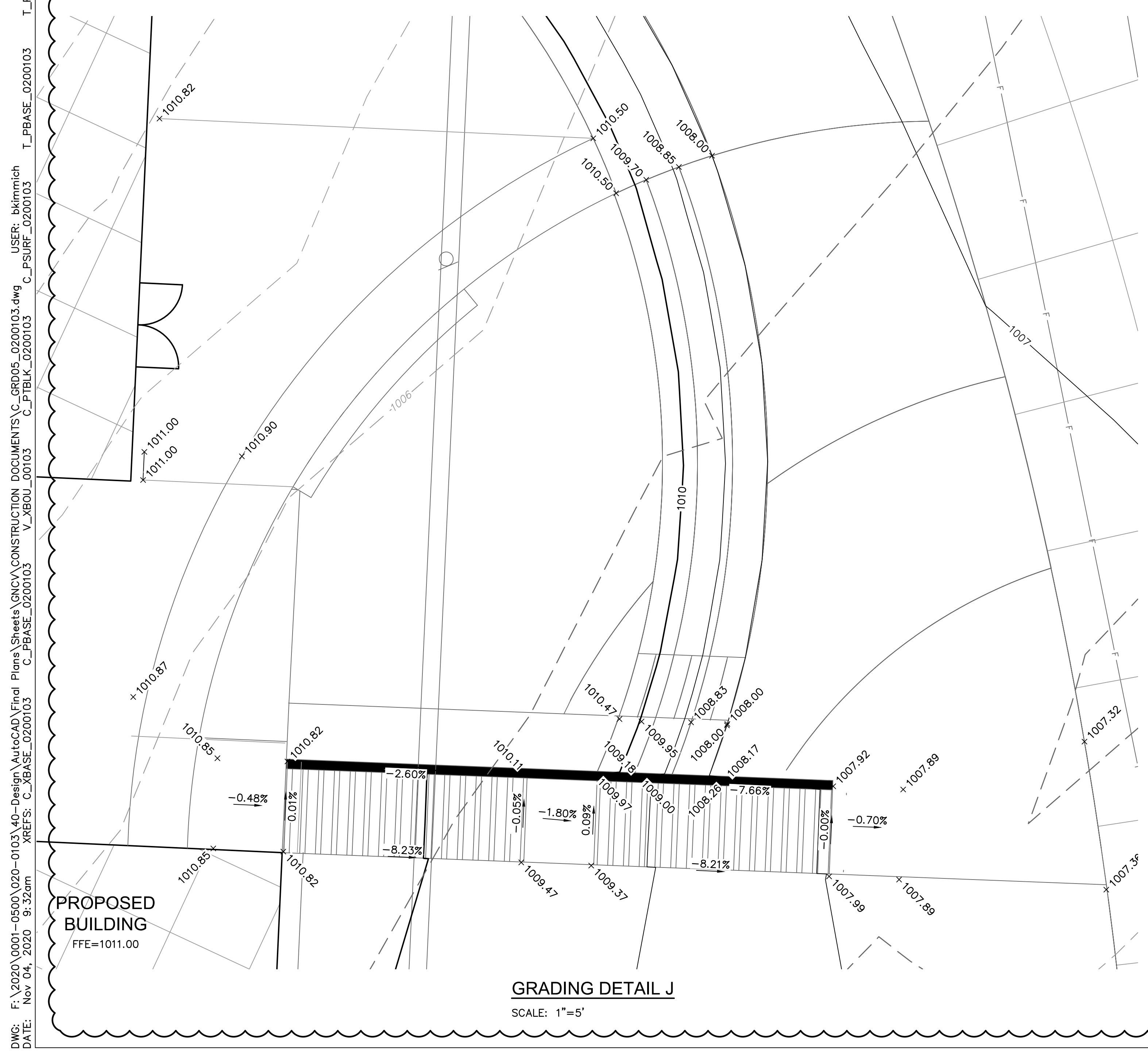
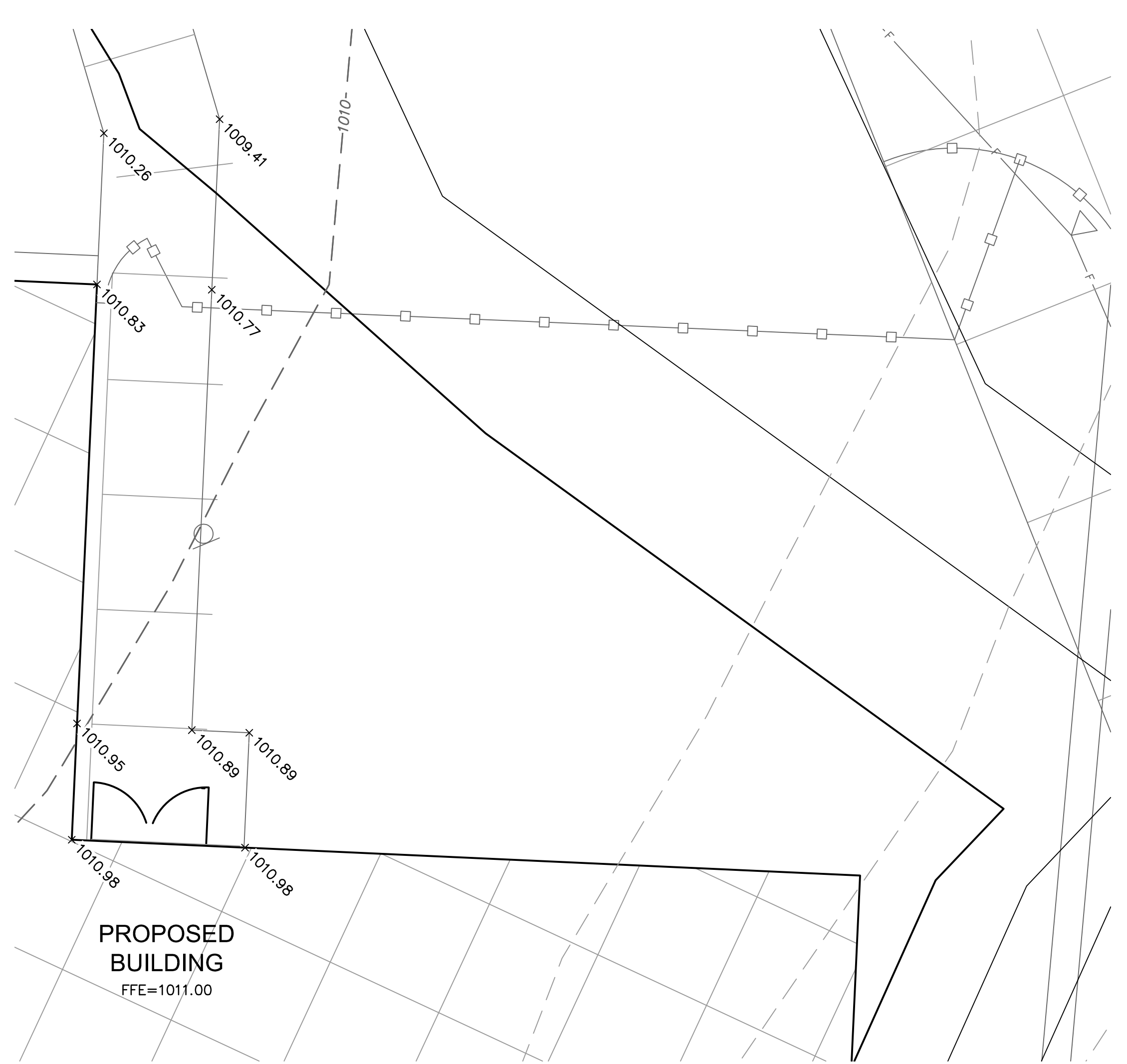
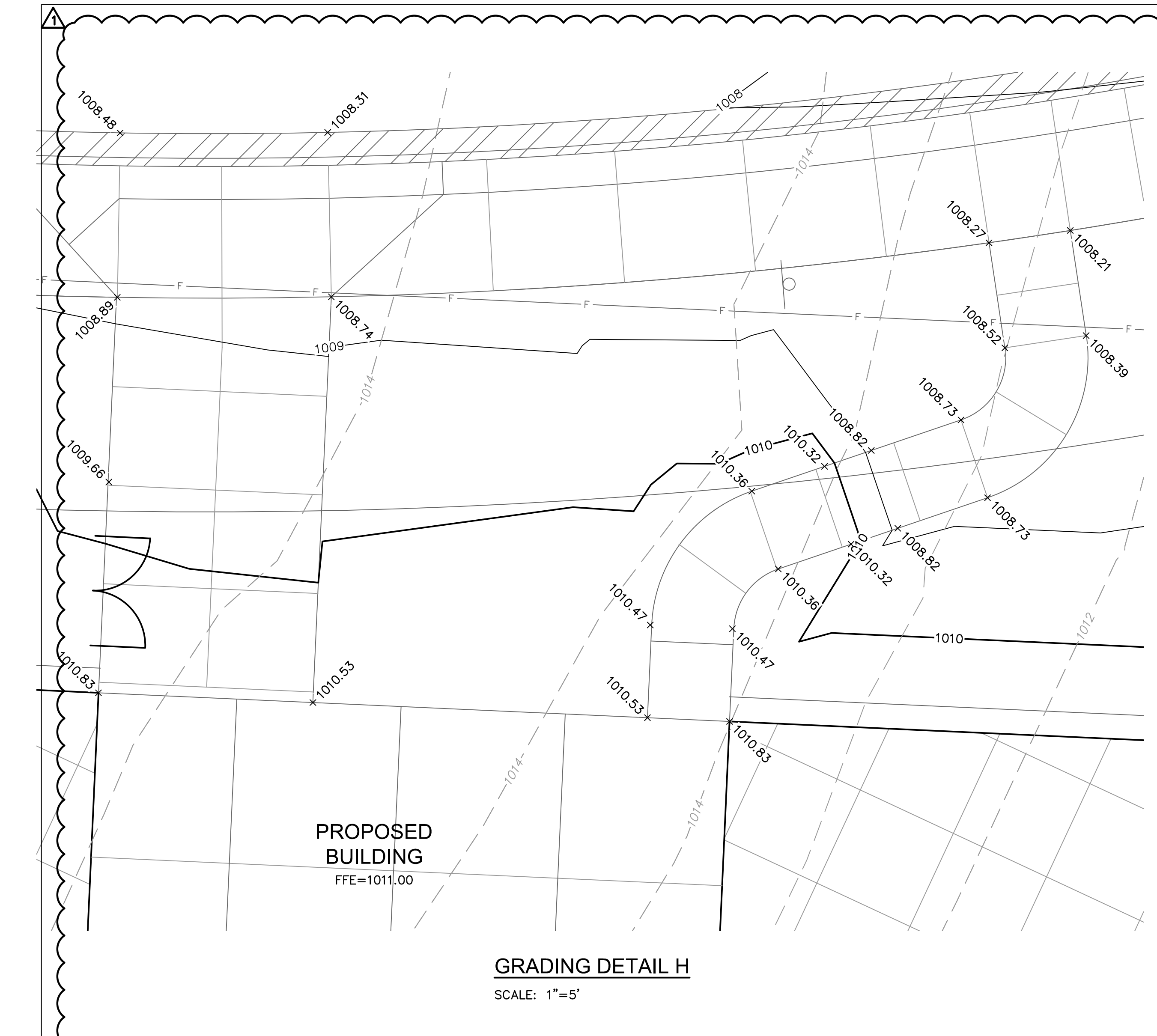
LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
08/28/20
REVISIONS
REVISED PER CITY COMMENTS 10.01.20
REVISED PER CITY COMMENTS 11.04.20

13-20102-00

GRADING DETAILS

C1023



LEGEND

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

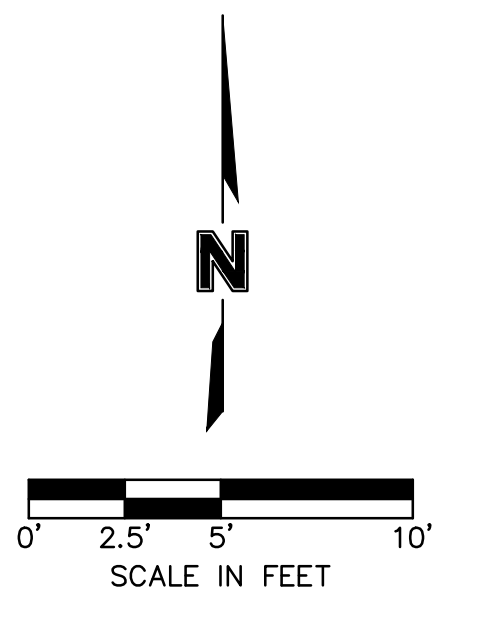
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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MISSOURI PROFESSIONAL ENGINEER
TERRY H. PARSONS
NUMBER
PE-201801085
11/19/2020

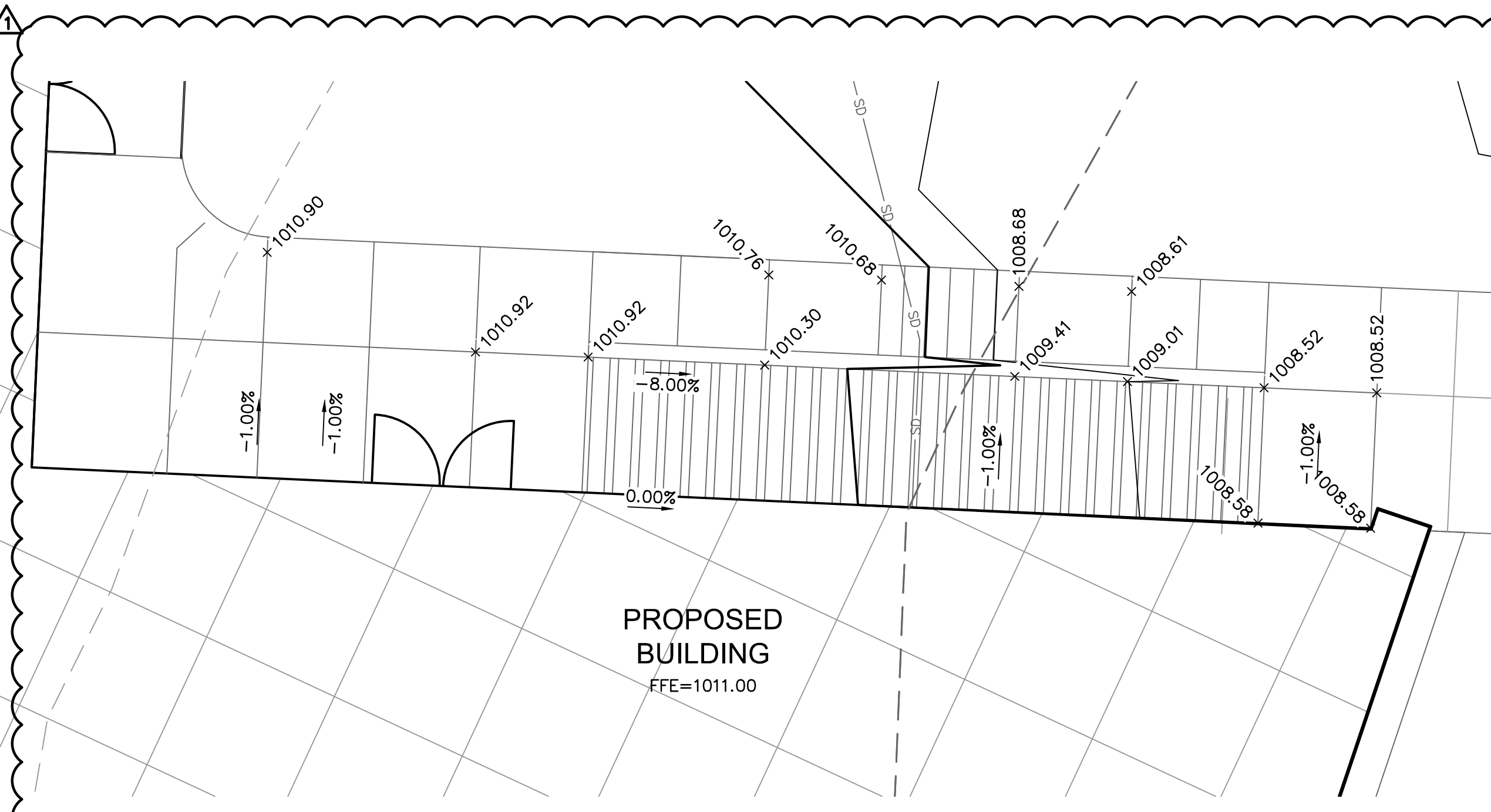
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LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
08/28/20
REVISIONS
REVISED PER CITY COMMENTS 10.01.20
REVISED PER CITY COMMENTS 11.04.20

13-20102-00
GRADING DETAILS

C1024

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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 Box]	RAMP
[L-shaped Symbol]	CONCRETE CURB & GUTTER TYPE "CG-1"
[L-shaped Symbol]	CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
[L-shaped Symbol]	CONCRETE CURB TYPE "C-1" MODIFIED

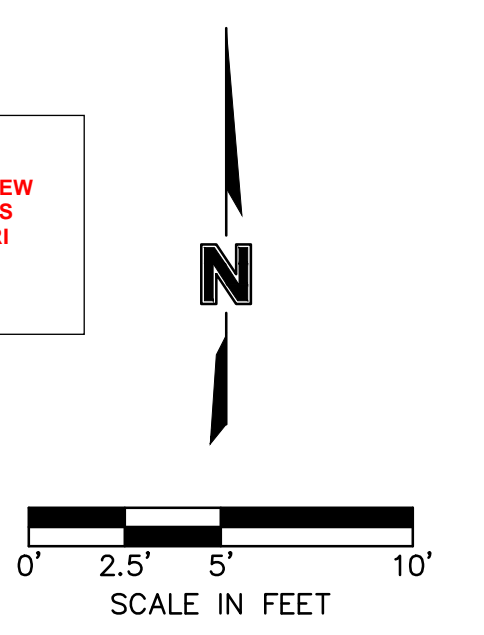
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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020



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STATE OF MISSOURI
 TERRY R. PARSONS
 NUMBER
 PE-291861855
 11/04/2020
 PROFESSIONAL ENGINEER

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

FINAL DEVELOPMENT PLAN
 08/28/20

REVISIONS

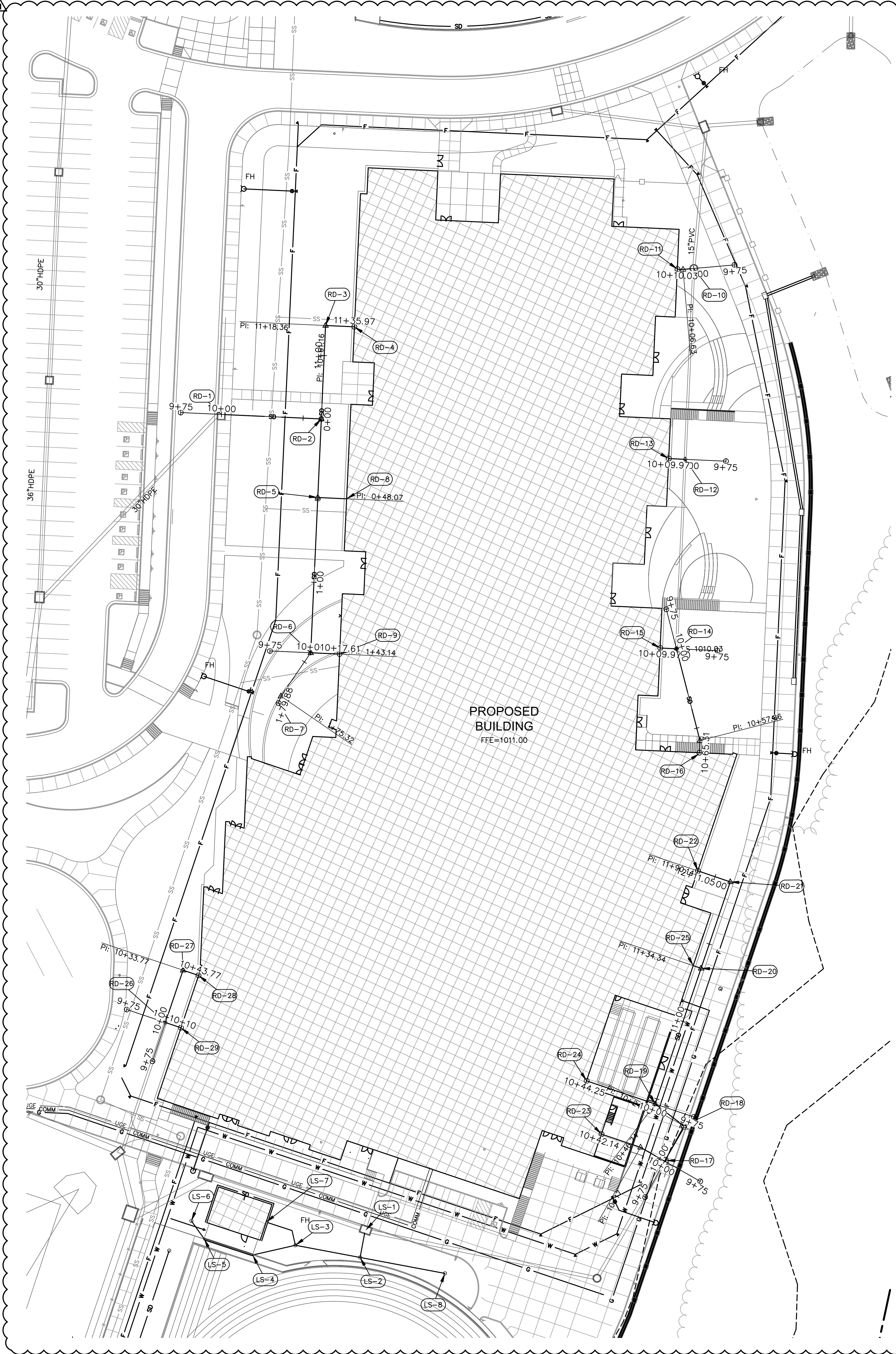
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△	REVISED PER CITY COMMENTS 11.04.20

13-20102-00

GRADING DETAILS

C1025

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 USER: bkimmich



UTILITY KEYNOTES:

ROOF DRAIN SYSTEM:

- RD-1 CONNECT TO NON-SETBACK CURB INLET
INSTALL 61.28 LF 12" HDPE (E.) @ 1.00%
TS=1001.98
INV. EL.=1001.98
- RD-2 INSTALL 2' DIA. NYLOPLAST DRAIN BASIN W/SOLID LID,
57.20 LF OF 8" HDPE (N.) @ 7.65% AND
48.07 LF OF 12" HDPE (S.) @ 1.00%
TS=1010.31
INV. EL.=1002.59
- RD-3 INSTALL 2' DIA. NYLOPLAST DRAIN BASIN W/SOLID LID
AND 5.05 LF 8" HDPE (E.) @ 1.00%
- RD-4 CONNECT TO BUILDING, RE: MEP
INV. EL.=1008.39
- RD-5 INSTALL 2' DIA. NYLOPLAST DRAIN BASIN W/SOLID LID,
95.07 LF OF 12" HDPE (S.) @ 1.00% AND
17.61 LF OF 8" HDPE (E.) @ 23.00%
TS=1010.56
INV. EL.=1004.32
- RD-6 INSTALL 2' DIA. NYLOPLAST DRAIN BASIN W/SOLID LID,
36.74 LF OF 4" HDPE (S.W.) @ 2.00% AND
5.05 LF OF 10" HDPE (E.) @ 18.8%
TS=1010.67
INV. EL.=1005.27
- RD-7 CONNECT TO CANOPY, RE: MEP
INV. EL.=1006.00
- RD-8 CONNECT TO BUILDING, RE: MEP
INV. EL.=1008.37
- RD-9 CONNECT TO BUILDING, RE: MEP
INV. EL.=1008.59
- RD-10 CONNECT TO MH
INSTALL 6.63 LF 10" HDPE (W.) @ 1.00%
WITH NECESSARY BENDS AND FITTINGS
- RD-11 CONNECT TO BUILDING, RE: MEP
INV. EL.=1007.69
- RD-12 INSTALL 2' DIA. NYLOPLAST DRAIN BASIN
ON 15" HDPE AND INSTALL 9.97 LF 10" HDPE (W.)
- RD-13 CONNECT TO BUILDING, RE: MEP
INV. EL.=1006.00
- RD-14 CONNECT TO JUNCTION BOX AND INSTALL
65.86 LF 10" HDPE (S.) @ 1.38% AND
9.97 LF 10" HDPE (W.) @ 1.00%
TS=1010.03
INV. EL.=1005.90
- RD-15 CONNECT TO BUILDING, RE: MEP
INV. EL.=1006.00
- RD-16 CONNECT TO BUILDING, RE: MEP
INV. EL.=1006.81
- RD-17 CONNECT TO 2' DIA. NYLOPLAST DRAIN BASIN,
INSTALL 24.58 LF 12" HDPE (N.E.) @ 1.00% AND
41.69 LF 4" HDPE (N.W.) @ 2.82%
WITH NECESSARY BENDS AND FITTINGS.
TS=1006.41
INV. EL.=1003.49
- RD-18 INSTALL 4'x3' NYLOPLAST CURB INLET AND
22.06 LF 12" HDPE (N.W.) @ 1.00%
TS=1006.10
INV. EL.=1003.74
- RD-19 INSTALL 2' DIA. NYLOPLAST DRAIN BASIN W/SOLID LID,
87.60 LF 12" HDPE (N.E.) @ 1.46% AND
44.25 LF 10" HDPE (N.W.) @ 1.00%
TS=1006.63
INV. EL.=1003.96
- RD-20 INSTALL 2' DIA. NYLOPLAST DRAIN BASIN W/SOLID LID,
55.81 LF 10" HDPE (N.E.) @ 1.00% AND
5.08 LF 8" HDPE (N.W.) @ 15.11%
TS=1008.64
INV. EL.=1005.23
- RD-21 INSTALL 2' DIA. NYLOPLAST DRAIN BASIN W/SOLID LID AND
20.91 LF 10" HDPE (N.W.) @ 1.00%
- RD-22 CONNECT TO BUILDING, RE: MEP
INV. EL.=1006.00
- RD-23 CONNECT TO BUILDING, RE: MEP
INV. EL.=1004.67
- RD-24 CONNECT TO BUILDING, RE: MEP
INV. EL.=1004.40
- RD-25 CONNECT TO BUILDING, RE: MEP
INV. EL.=1006.00
- RD-26 CONNECT TO NYLOPLAST DRAIN BASIN AND
INSTALL 33.77 LF 12" HDPE (N.E.) @ 1.00% AND
10.00 LF 10" HDPE (S.E.) @ 25.98%
TS=1010.25
INV. EL.=1005.56
- RD-27 INSTALL 2' DIA. NYLOPLAST DRAIN BASIN AND
10.00 LF 10" HDPE (S.E.) @ 1.00%
TS=1010.38
INV. EL.=1005.90
- RD-28 CONNECT TO BUILDING, RE: MEP
INV. EL.=1006.00

LANDSCAPE DRAIN SYSTEM:

- LS-1 CONNECT TO CURB INLET,
INSTALL 17.17 LF 12" HDPE (S.) @ 1.00%
- LS-2 INSTALL 2' DIA. NYLOPLAST DRAIN
WITH SOLID LID AND 40.29 LF 10" HDPE (N.W.) @ 1.00%
AND 52.81 LF 8" HDPE (S.E.) @ 1.00%
TS=1004.85
INV. EL.=1000.69
- LS-3 INSTALL 2' DIA. NYLOPLAST DRAIN
WITH DOMED LID, 26.81 LF 10" HDPE (W.) @ 1.00%
AND 25.83 LF 6" HDPE (N.W.) @ 1.00%
TS=1003.48
INV. EL.=1001.09
- LS-4 INSTALL 31.27 LF 8" TRENCH DRAIN (N.W.)
TS=1004.92
INV. EL.=1001.36
- LS-5 END TRENCH DRAIN
TS=1004.92
INV. EL.=1001.68
- LS-6 INSTALL 2' DIA. NYLOPLAST DRAIN
WITH DOMED LID
TS=1004.81
INV. EL.=1001.81
- LS-7 INSTALL 84 LF 6" PERFORATED DRAIN @ 1.00% MINIMUM
AROUND PERIMETER OF BUILDING

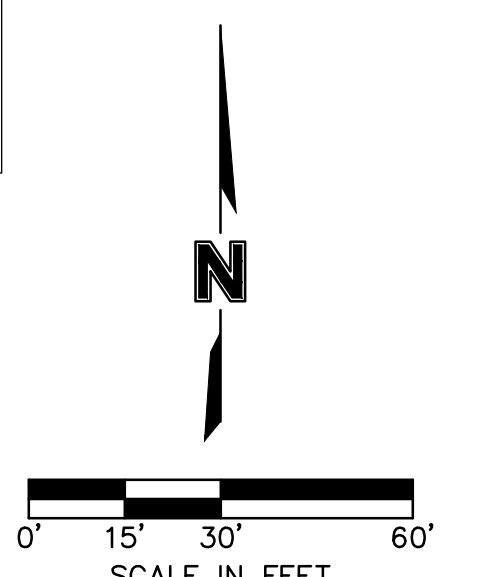
EXISTING CONDITIONS LEGEND

- 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

RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
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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

FINAL DEVELOPMENT PLAN
 08/28/20

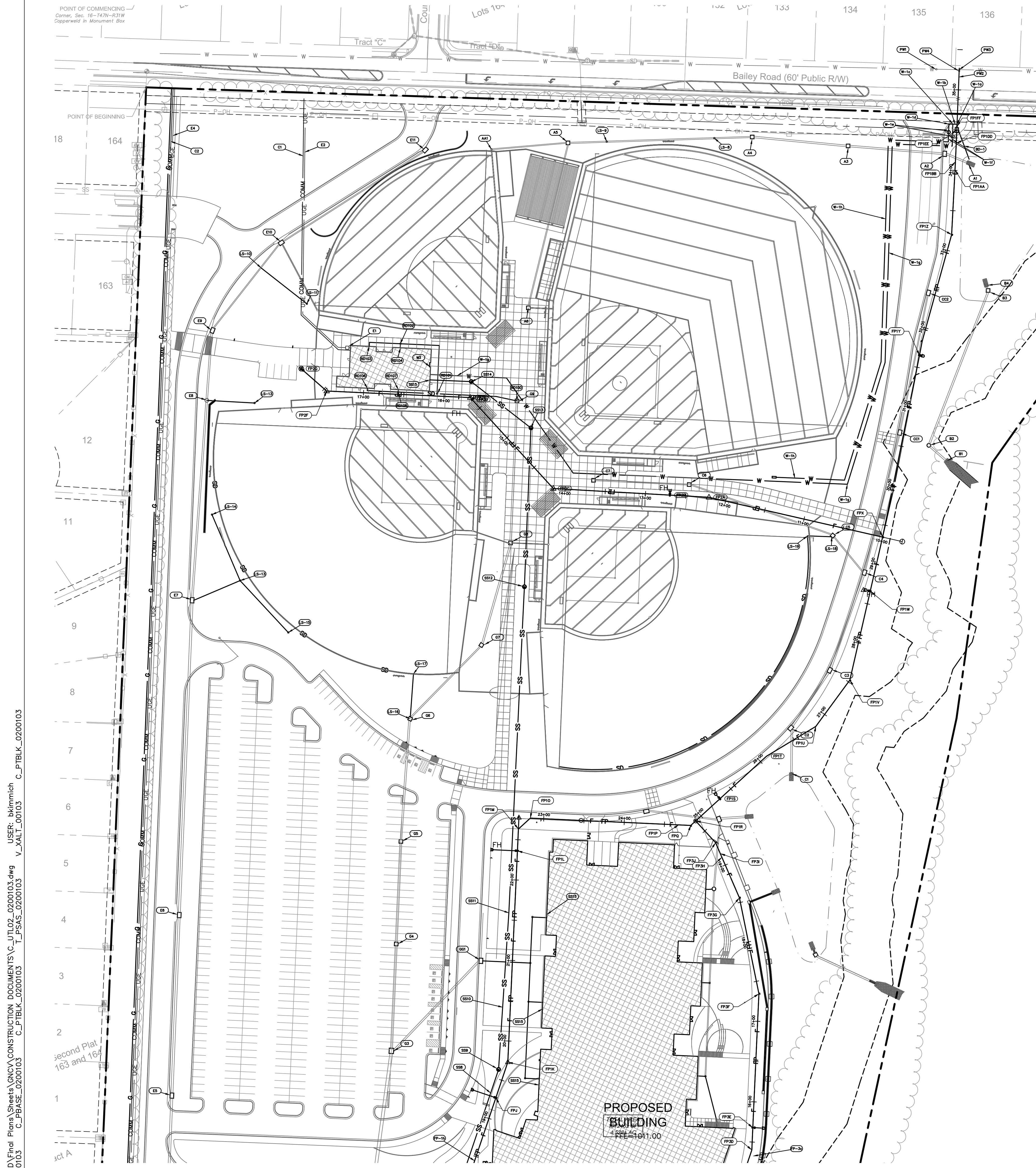
REVISIONS

- ▲ REVISED PER CITY COMMENTS 10.01.20
- ▲ REVISED PER CITY COMMENTS 11.04.20

13-20102-00

UTILITY PLAN

C1026



KEY NOTES:

- DOMESTIC WATER**
 W1. WATERLINE TO CONCESSION BLDG AND IRRIGATION
 a. INSTALL 6x6x4 CUT IN TEE ON PUBLIC MAIN COMING UNDER STREET.
 b. INSTALL 15 LF OF 4" AWWA C900 PIPE FROM TEE TO METER.
 c. INSTALL 4x4x4 TEE
 d. INSTALL 4" 90° ELBOW WITH 3" REDUCER
 e. INSTALL 2" METER AND PIT PER STANDARD CITY DETAIL (2 TOTAL).
 f. INSTALL A MINIMUM 10 LF 3" AWWA C900 FROM METER TOWARDS BUILDING
 g. CONTINUE BUILDING SERVICE CONNECTION WITH 1018± LF OF 3" AWWA C900 PIPE
 RE: MEP FOR CONNECTION TO BLDG AND BACKFLOW PREVENTION.
 h. CONTINUE BUILDING SERVICE CONNECTION WITH 518± LF OF 3" AWWA C900 PIPE
 RE: LS FOR CONNECTION TO IRRIGATION AND BACKFLOW PREVENTION.

- 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 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

- LANDSCAPE DRAIN SYSTEM:**
 LS-8. INSTALL 2' DIA. NYLOPLAST BASIN WITH DOMED LID ON 24" HDPE
 LS-9. INSTALL 2' DIA. NYLOPLAST BASIN WITH DOMED LID ON 24" HDPE
 LS-10. INSTALL INSERTA-TEE AND 71.95 LF 12" HDPE (S.E.) @ 1.00%
 TS=1013.35
 INV. EL.=1012.64
 LS-11. BALLFIELD LANDSCAPE DRAINS. RE: LANDSCAPE
 LS-12. CONNECT TO CURB INLET AND INSTALL 62.52 LF 12" HDPE (N.E.) @ 1.00%
 LS-13. INSTALL 2' DIA. NYLOPLAST BASIN WITH DOMED LID, 89.07 LF 8" HDPE (N.W.) @ 1.00%
 AND 87.85 LF 8" HDPE (S.E.) @ 1.00%
 TS=1013.35
 INV. EL.=1012.64
 LS-14. INSTALL 2' DIA. NYLOPLAST BASIN WITH DOMED LID.
 TS=1014.50
 INV. EL.=1011.75
 LS-15. INSTALL 2' DIA. NYLOPLAST BASIN WITH DOMED LID.
 TS=1014.50
 INV. EL.=1012.62

- LS-16. CONNECT TO CURB INLET AND INSTALL 53.74 LF 8" HDPE (N.E.) @ 1.00%
 LS-17. INSTALL 487.41 LF 8" PERFORATED HDPE
 LS-18. CONNECT TO JUNCTION BOX AND INSTALL XX LF 8" HDPE (W.) @ 1.00%
 LS-19. INSTALL 485.91 LF 8" PERFORATED HDPE

- ROOF DRAIN SYSTEM:**
 RD100. CONNECT TO STORM STRUCTURE AND INSTALL 99.83 LF 12" HDPE @ 1.00% MIN. WITH NECESSARY BENDS AND FITTINGS.
 RD101. INSTALL 2' NYLOPLAST DRAIN WITH SOLID LID, 108.28 LF OF 10" HDPE (N.) @ 1.00% MIN. AND 48.25 LF 10" HDPE (W.) @ 1.00% MIN. WITH NECESSARY BENDS AND FITTINGS.
 RD102. INSTALL 2' DIA. NYLOPLAST DRAIN WITH SOLID LID, 43.55 LF OF 6" HDPE (W.) @ 1.00% MIN. AND 5.00 LF 6" HDPE (S.) @ 1.00% WITH NECESSARY BENDS AND FITTINGS.
 RD103. CONNECT TO BUILDING. RE: MEP
 RD104. CONNECT TO BUILDING. RE: MEP
 RD105. INSTALL 2' DIA. NYLOPLAST DRAIN WITH SOLID LID, 58.23 LF OF 6" HDPE (W.) @ 1.00% MIN. AND 3.02 LF OF 6" HDPE (N.) @ 1.00% MIN. WITH NECESSARY BENDS AND FITTINGS.
 RD106. CONNECT TO BUILDING. RE: MEP
 RD107. CONNECT TO BUILDING. RE: MEP

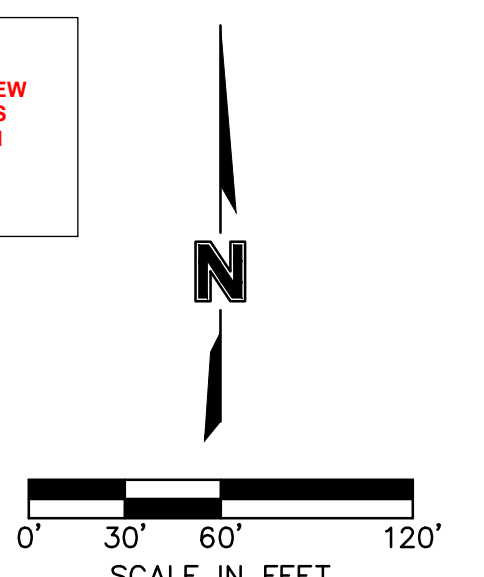
EXISTING CONDITIONS LEGEND

- 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
- SD --- 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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020



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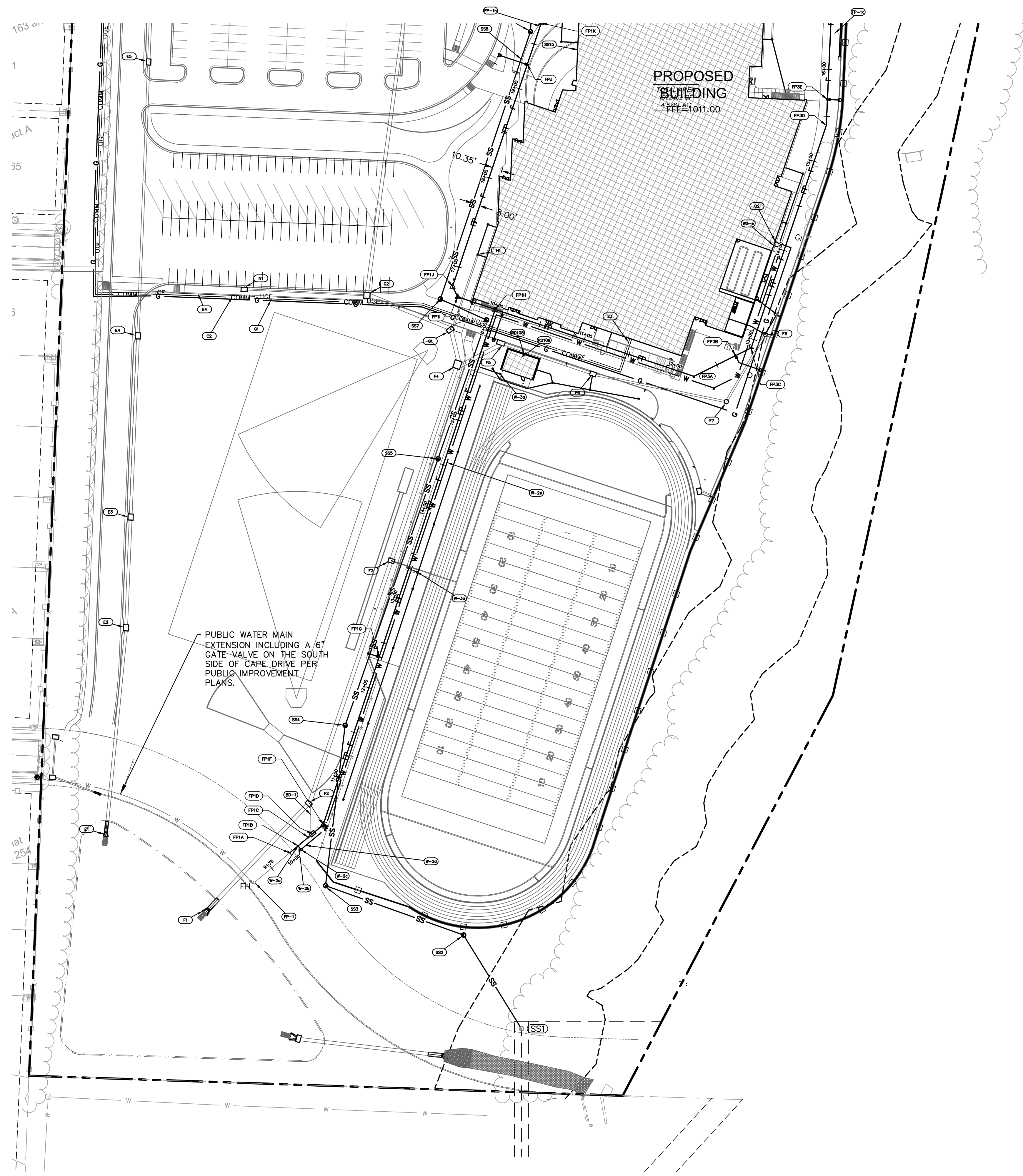
LEE'S SUMMIT MIDDLE SCHOOL #4
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FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 REVISION PER CITY COMMENTS 11/04/20

13-20102-00
 UTILITY PLAN

C1027

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KEY NOTES:

DOMESTIC WATER

- W2. WATERLINE TO MIDDLE SCHOOL
 a. INSTALL 6x6x4 CUT OUT TEE ON 6" PUBLIC CITY MAIN.
 b. INSTALL 10 LF OF 4" AWWA C900 FROM TEE TO METER.
 c. INSTALL 3" METER AND PIT PER DETAIL ON C1050.
 d. INSTALL A MINIMUM 10 LF 4" AWWA C900 FROM METER TOWARDS BUILDING
 e. CONTINUE BUILDING SERVICE CONNECTION WITH 1036± LF OF 4" AWWA C900 PIPE
 RE: MEP FOR CONNECTION AT BLDG AND BACKFLOW PREVENTION.

- W3. HOSE BIB CONNECTION
 a. 3" TAP WITH HOSE BIB

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

- FP1. INSTALL TEMPORARY IN-LINE FIRE HYDRANT ASSEMBLY ON SOUTH SIDE OF PROPOSED CAPE DRIVE

SANITARY SEWER:

REF: SHEET C1028C FOR PROFILES AND KEYNOTE DESCRIPTIONS

ELECTRICAL:

- E1. TRANSFORMER LOCATION TO BE PROVIDED LATER, COORDINATED INSTALLATION WITH UTILITY COMPANY AND MEP PLANS. CONTRACTOR TO INSTALL TRANSFORMER PAD PER UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 E2. INSTALL 2100±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 TO SERVE THE PROJECT.
 SEE MEP PLANS FOR LIGHTING AND LIGHTING CONDUIT.

COMMUNICATIONS:

- C2. INSTALL 2110± LF OF 3-4" PVC CONDUIT W/PULL STRING. COORDINATE CONNECTION AND LOCATION WITH COMMUNICATIONS COMPANY.

GAS SERVICE

- G1. INSTALL 2340± LF OF GAS SERVICE LINE (SIZE AND MATERIAL TO BE DETERMINED). COORDINATE LOCATION WITH GAS SERVICE COMPANY.
 G2. PROPOSED METER LOCATION

ROOF DRAIN SYSTEM:

- RD108. INSTALL 6" INSERTA-TEE AND 56 LF 6" HDPE (S.) @ 1.00% MIN.
 RD109. CONNECT TO BUILDING. RE: MAP

BACKFLOW DRAIN:

- BD-1. INSTALL 24 LF OF 2" SDR26 PVC PIPE FROM BFP PIT TO STORM STRUCTURE @ 1% MINIMUM SLOPE

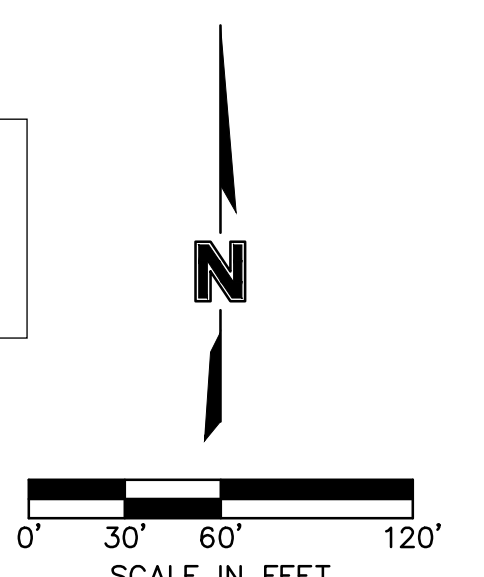
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- P-UG --- UNDERGROUND ELECTRIC
- TEL --- UNDERGROUND TELEPHONE
- FO --- UNDERGROUND FIBER OPTIC
- G --- GAS LINE
- W --- WATER LINE
- SS --- STORM SEWER LINE
- SS --- SANITARY SEWER LINE

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

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
 11/19/2020



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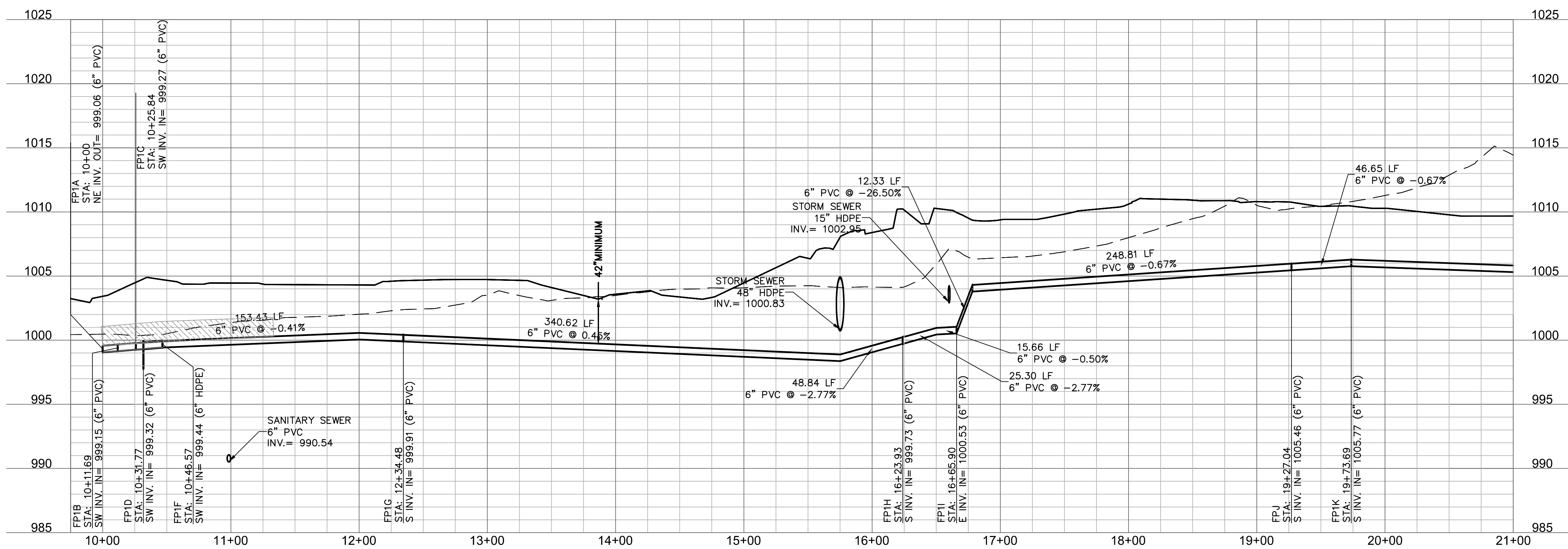
FINAL DEVELOPMENT PLAN
 08/28/20

REVISIONS	REVISIONS
△	REVIEW PER CITY COMMENTS 11.04.20
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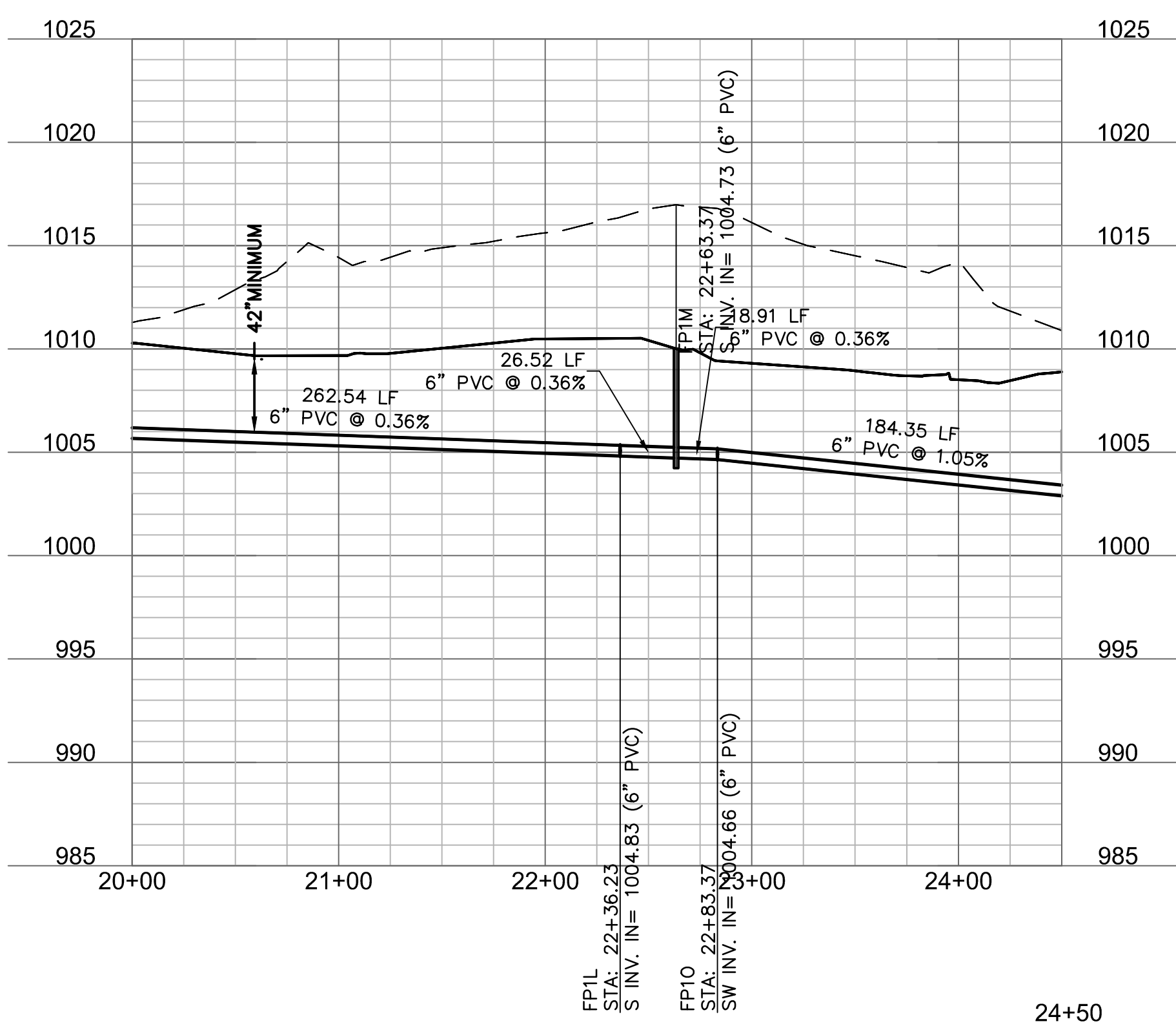
13-20102-00
 UTILITY PLAN

C1028

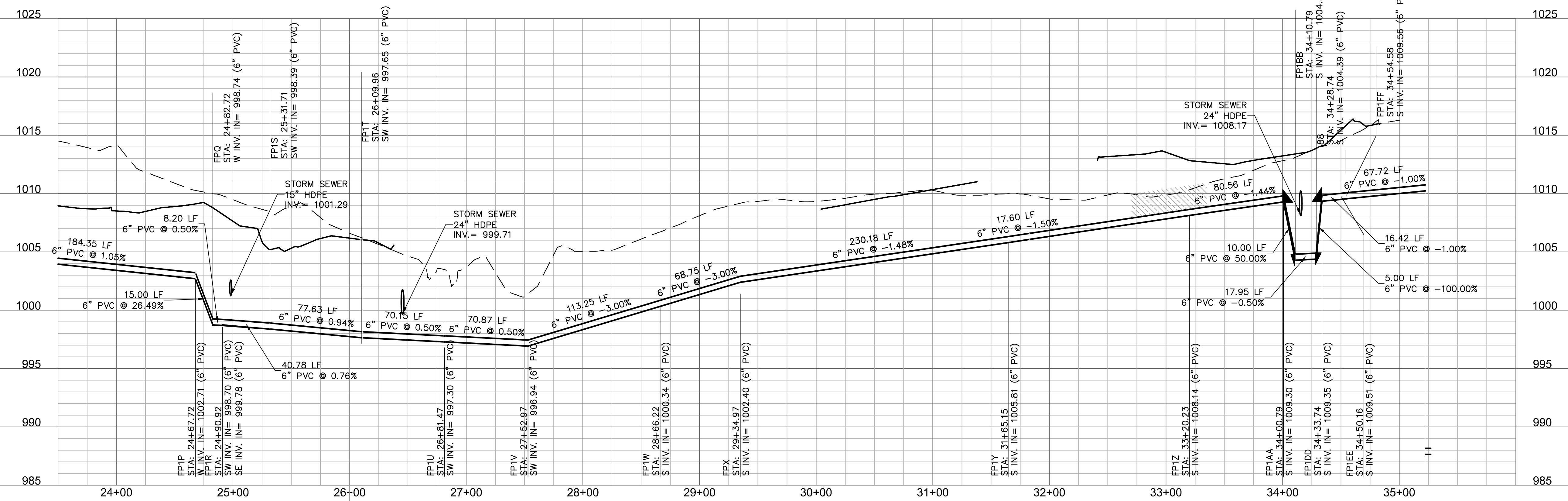
FIRE PROTECTION FP1 (9+75 - 21+00)



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



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



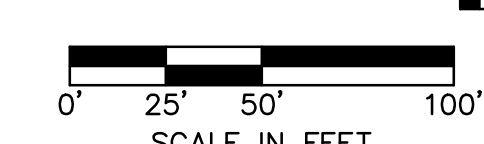
STRUCTURES	
ID	DESCRIPTION
FP1A	CONNECT TO PUBLIC MAIN BEGIN CONSTRUCTION FP1 10+0.00, 0.00' FIRE PROTECTION FP1 INV OUT = 999.06 (6" PVC) N: 991457.497; E: 2831717.706
FP1AA	22.5" VERTICAL BEND WITH THRUST BLOCKS 34+00.79, 0.24' RT FIRE PROTECTION FP1 INV IN = 1009.30 (6" PVC) INV OUT = 1009.30 (6" PVC) N: 993447.120; E: 2832540.009
FP1B	INSTALL 6"x6"x6" TEE FOR DOMESTIC SERVICE 10+11.69, 0.00' FIRE PROTECTION FP1 INV IN = 999.15 (6" PVC) INV OUT = 997.95 (6" PVC) N: 991465.015; E: 2831726.659
FP1BB	22.5" VERTICAL BEND WITH THRUST BLOCKS 34+01.79, 0.27' RT FIRE PROTECTION FP1 INV IN = 1004.30 (6" PVC) INV OUT = 1004.30 (6" PVC) N: 993457.107; E: 2832540.530
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
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 = 997.89 (6" HDPE) INV OUT = 997.89 (6" HDPE) N: 991477.926; E: 2831742.036
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
FP1EE	INSTALL BACK FLOW PREVENTER AND VAULT PER CITY STANDARDS END CONSTRUCTION FP1 34+50.16, 0.00' FIRE PROTECTION FP1 INV IN = 1009.51 (6" PVC) INV OUT = 1009.51 (6" PVC) N: 993496.448; E: 2832542.196
FP1F	22.5" BEND WITH THRUST BLOCKS 10+46.57, 0.00' FIRE PROTECTION FP1 INV IN = 999.44 (6" HDPE) INV OUT = 999.44 (6" PVC) N: 991487.446; E: 2831753.373
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
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
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
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 CUT-IN TEE AT THE EXISTING 16" PUBLIC MAIN 35+26.98, 0.00' FIRE PROTECTION FP1 INV IN = 987.65 (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

STRUCTURES	
ID	DESCRIPTION
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
FP1R	INSTALL 6"x6"x6" TEE END CONSTRUCTION FP3 24+90.92, 0.00' FIRE PROTECTION FP1 INV IN = 998.70 (6" PVC) INV IN = 999.78 (6" PVC) INV OUT = 998.70 (6" PVC) N: 992638.949; E: 2832218.127
FP1S	FIRE HYDRANT 25+31.71, 0.00' FIRE PROTECTION FP1 INV IN = 998.39 (6" PVC) INV OUT = 998.39 (6" PVC) N: 992666.462; E: 2832248.234
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
FP1U	22.5" BEND WITH THRUST BLOCK 28+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
FP1V	22.5" BEND WITH THRUST BLOCKS 27+52.97, 0.00' FIRE PROTECTION FP1 INV IN = 998.34 (6" PVC) INV OUT = 996.94 (6" PVC) N: 992813.870; E: 2832409.543
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
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
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
FP1J	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
FP1O	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
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: 992991.285; E: 2832450.146

LEGEND

- [Hatched Box] 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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
11/19/2020



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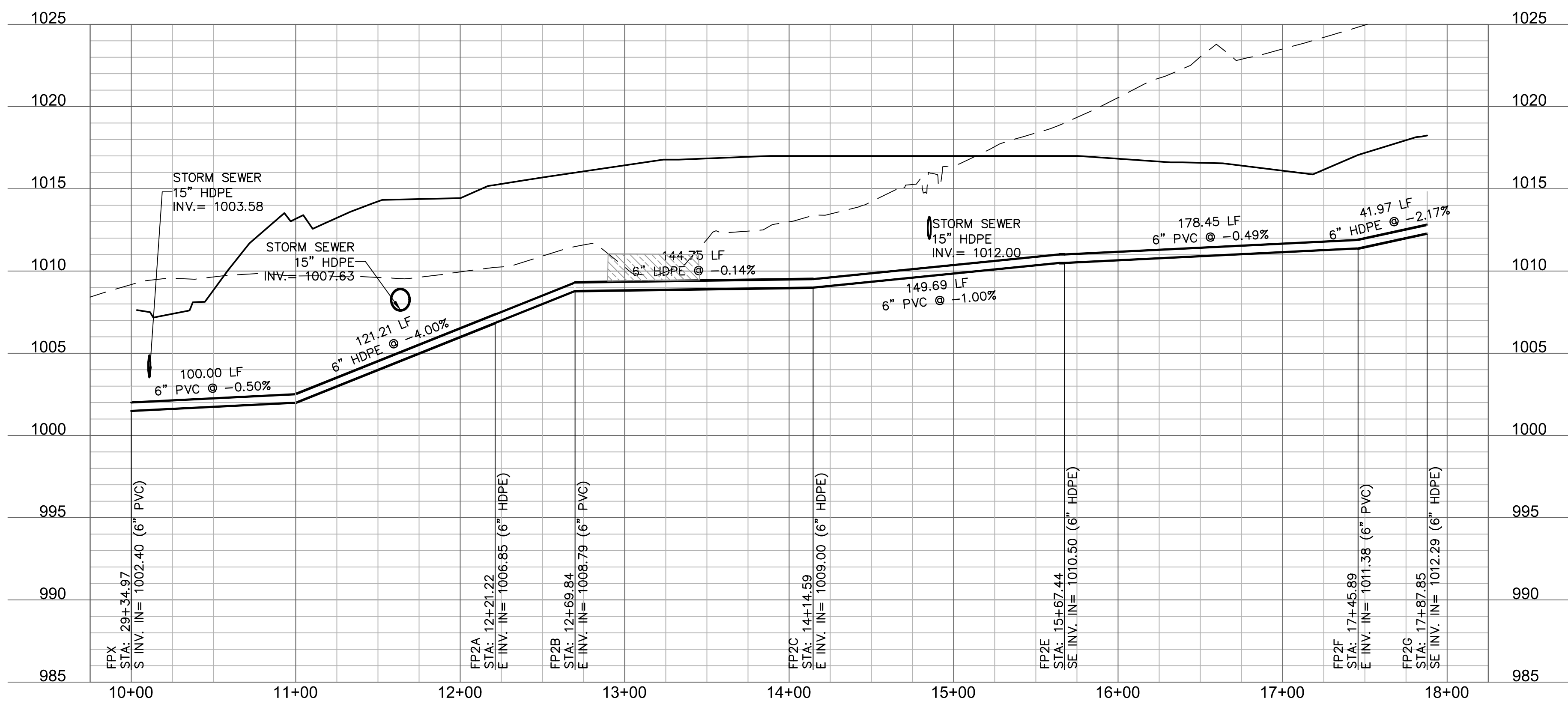
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FINAL DEVELOPMENT PLAN
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13-20102-00
FIRE PROTECTION PROFILES
C1028A

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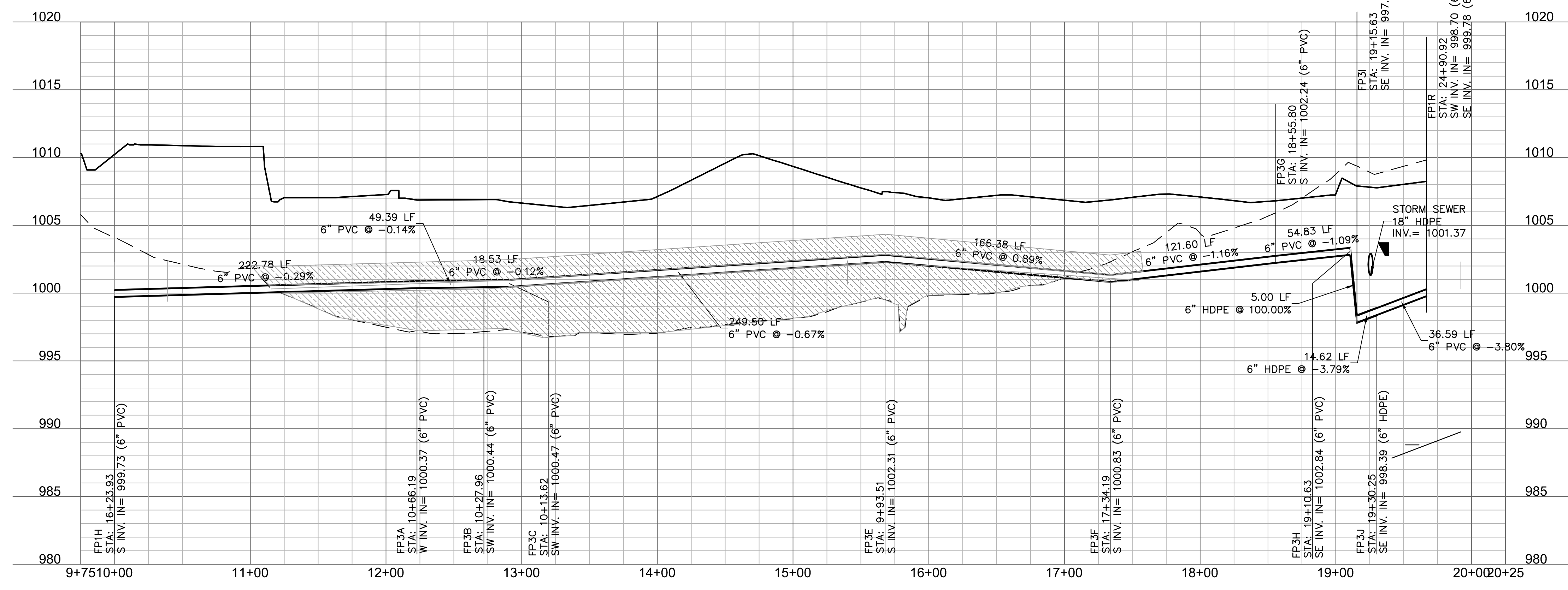
FIRE PROTECTION FP2 (9+75 - 18+25)



STRUCTURES	
ID	DESCRIPTION
FP2A	11' BEND WITH THRUST BLOCK 12+21.22, -0.01' LT FIRE PROTECTION FP2 INV IN = 1006.85 (6" HDPE) 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" HDPE) N: 993043.355; E: 2832185.957
FP2C	45' ANGLE WITH THRUST BLOCK 14+14.59, 0.00' FIRE PROTECTION FP2 INV IN = 1009.00 (6" HDPE) 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" HDPE) 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" HDPE) INV OUT = 1010.50 (6" PVC) N: 993164.409; E: 2831938.373
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" HDPE) N: 993172.504; E: 2831760.106
FP2G	FIRE HYDRANT 17+87.85, 0.00' FIRE PROTECTION FP2 INV IN = 1012.29 (6" HDPE) INV OUT = 1012.29 (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: 992991.285; E: 2832450.146

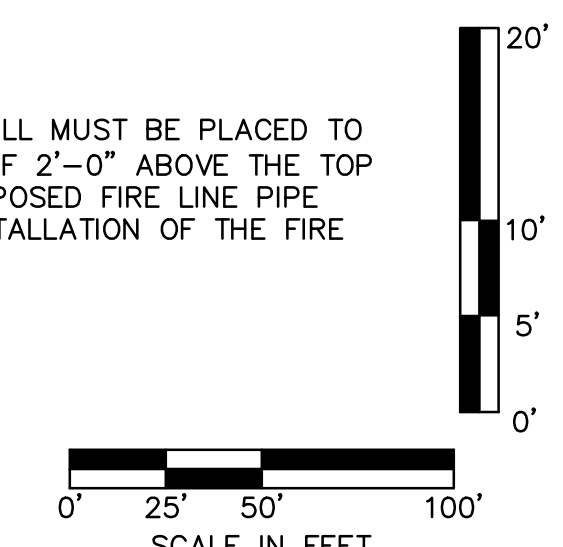
18+25

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.

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020



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DLR Group

Olsson

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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

LEE'S SUMMIT MIDDLE SCHOOL #4

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

FINAL DEVELOPMENT PLAN
 08/28/20

REVISIONS

- REVISED PER CITY COMMENTS 10.01.20
- REVISED PER CITY COMMENTS 11.04.20

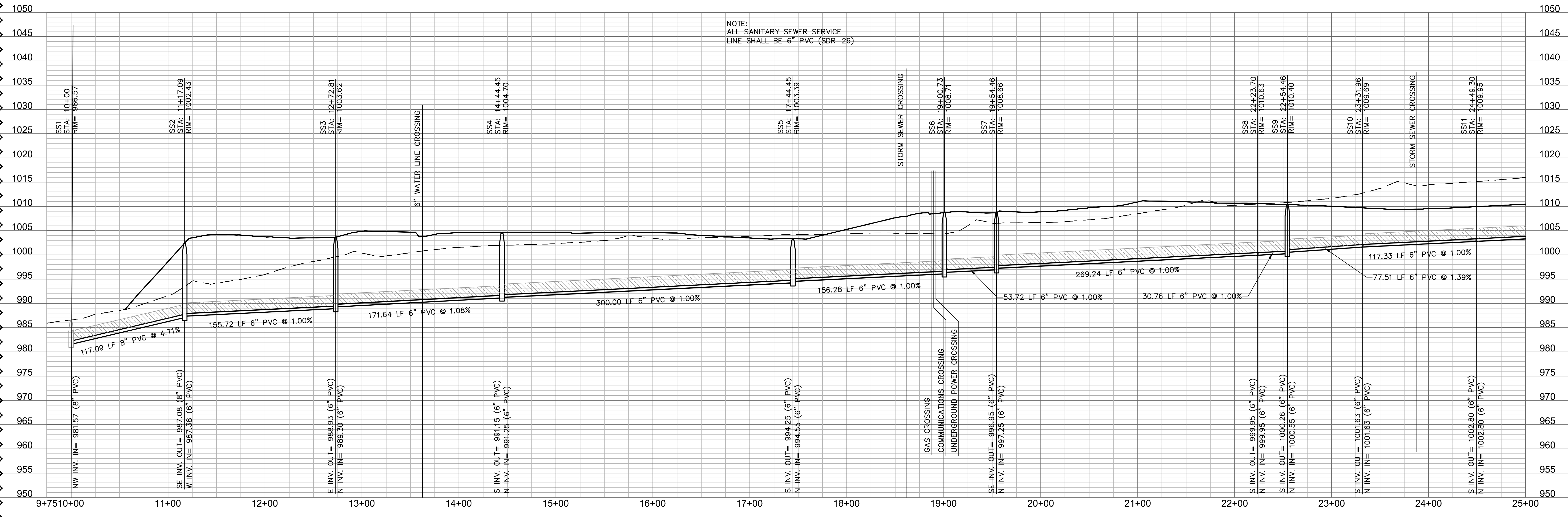
13-20102-00

FIRE PROTECTION PROFILES

C1028B

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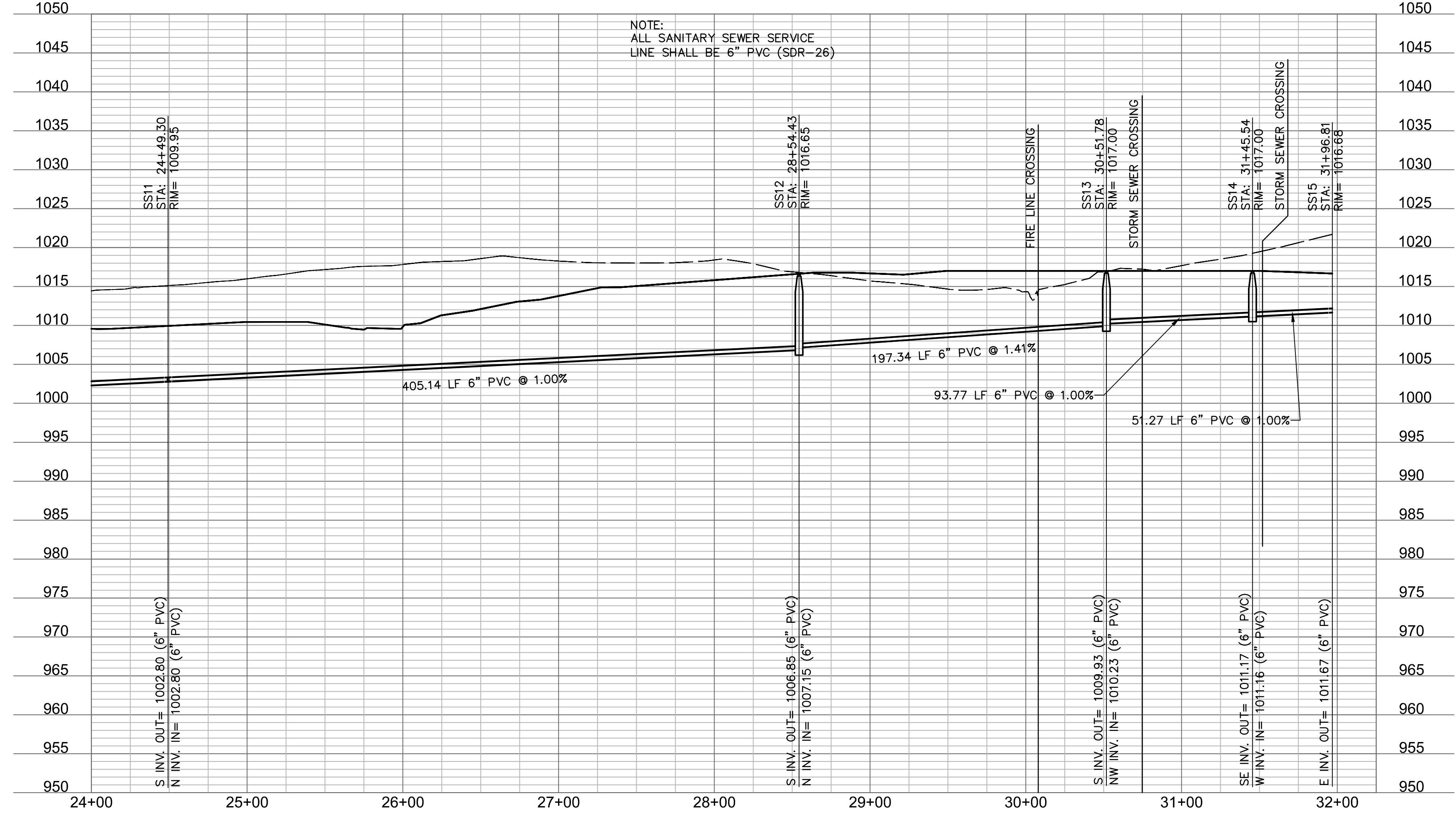
SS1 THRU SS15 (9+75 - 25+00)



NOTE:
 ALL SANITARY SEWER SERVICE
 LINE SHALL BE 6" PVC (SDR-26)

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)



NOTE:
 ALL SANITARY SEWER SERVICE
 LINE SHALL BE 6" PVC (SDR-26)

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 OUT = 1011.67 (6" PVC) N: 993186.328; E: 2831888.304

RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020

NOTES:
 1. 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.

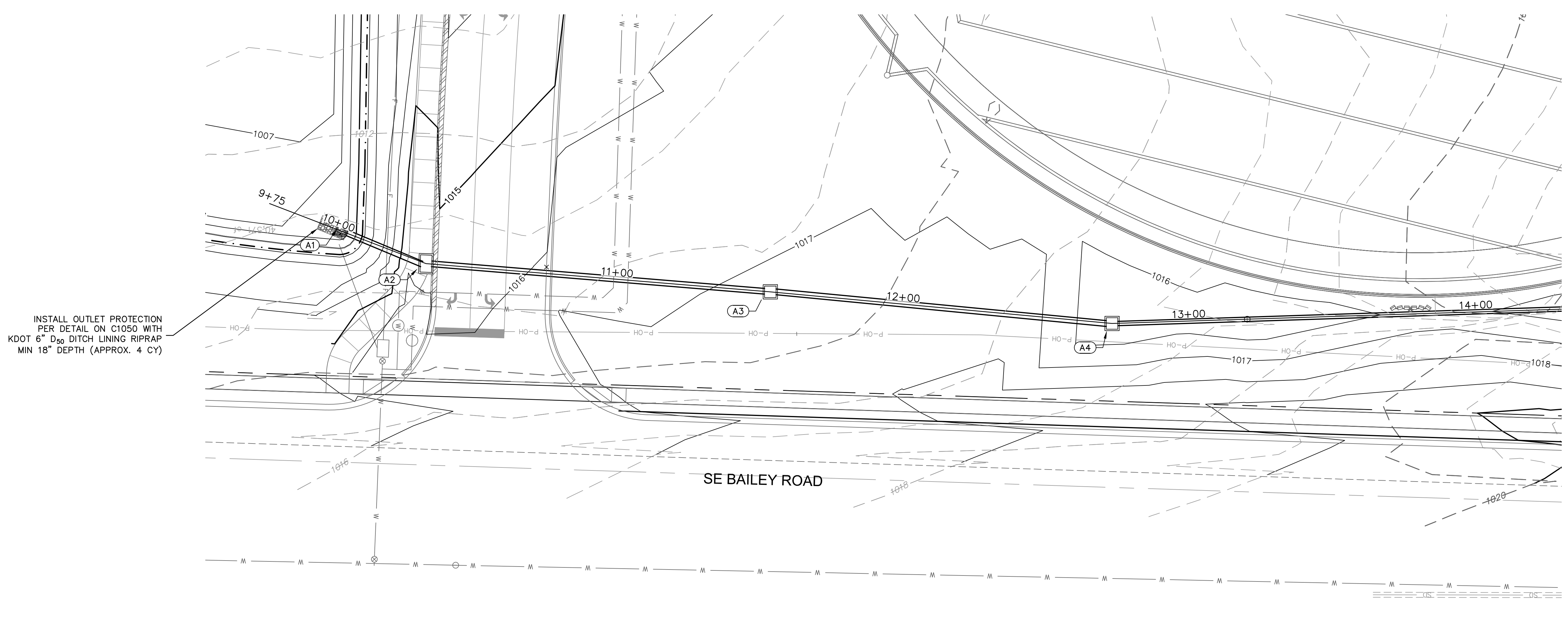
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LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 100 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 Δ REVISED PER CITY COMMENTS 10.01.20
 Δ REVISED PER CITY COMMENTS 11.01.20
 13-20102-00
 SANITARY SEWER SERVICE PROFILES
C1028C

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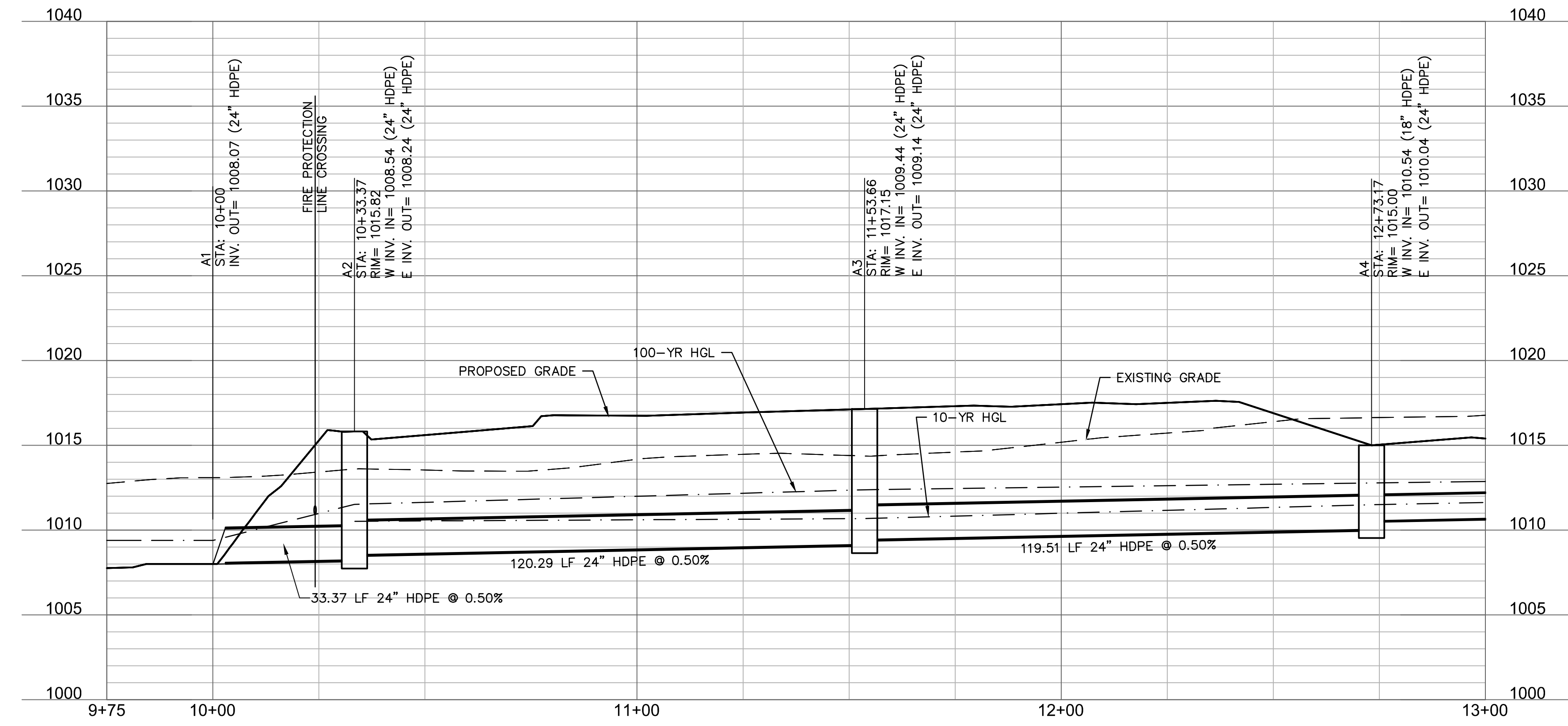
NOTES:

- 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

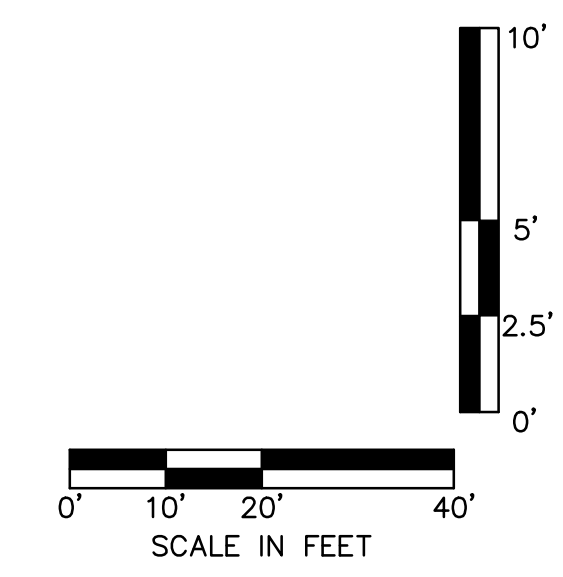
- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED STORM SEWER
- COMPACTED FILL MUST BE PLACED TO A MINIMUM OF 2'-0" ABOVE THE TOP OF THE PROPOSED SEWER PIPE PRIOR TO INSTALLATION OF THE SEWER PIPE.

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



STRUCTURES	
ID	DESCRIPTION
A1	INSTALL 24" DIA. END SECTION WITH CONCRETE TOEWALL AND 2.8 CY RIPRAP 10+00, 0.00' LINE A (3) 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) 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) 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) INV IN = 1010.54 (18" HDPE) INV OUT = 1010.04 (24" HDPE) N: 993487.779; E: 2832288.317

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
 11/19/2020



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 Missouri State Certificate of Authority #00399

Professional Engineer
 TERRY M. PARSONS
 NUMBER
 PE-2018610565
 11/19/2020

olsson
 OLSSON, CIVIL ENGINEERING
 MISSOURI CERTIFICATE OF AUTHORITY #001982
 7301 West 133rd Street, Suite 200
 Overland Park, KS 66221-4750
 TEL: 913.381.1170
 www.olsson.com

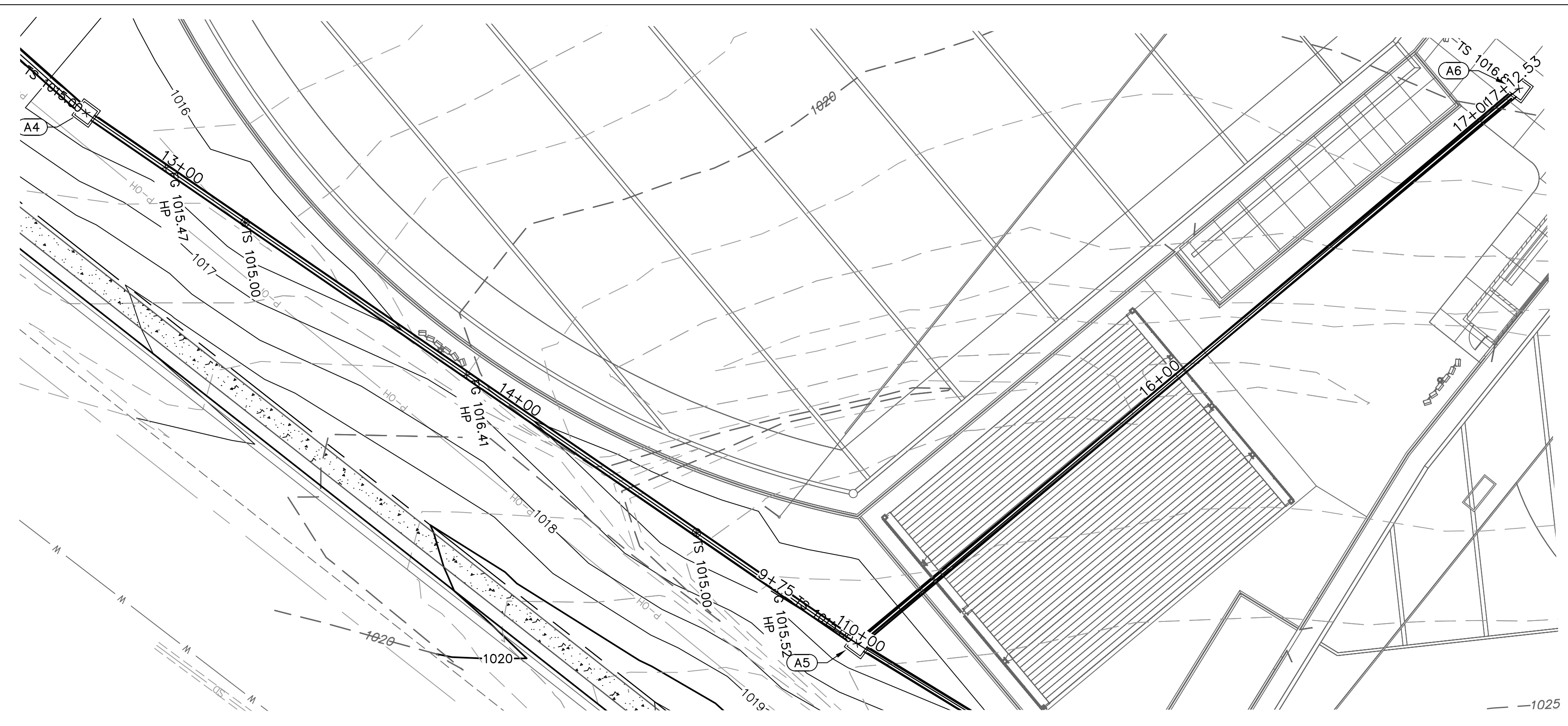
LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 1 REVISED PER CITY COMMENTS 10.01.20
 2 REVISED PER CITY COMMENTS 11.04.20
 3 REVISED PER CITY COMMENTS 11.12.20

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

C1029

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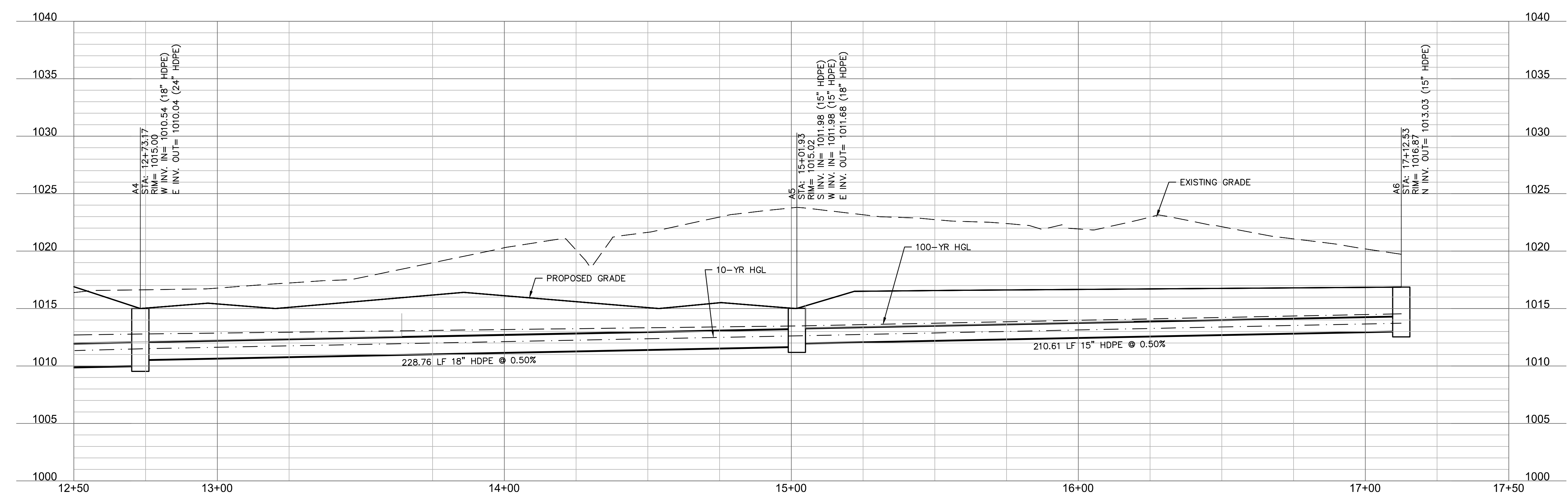
STRUCTURES	
ID	DESCRIPTION
A4	INSTALL 4'x4' JUNCTION BOX 12+73.17, 0.00' LINE A (3) RIM= 1015.00 INV IN = 1010.54 (18" HDPE) INV OUT = 1010.04 (24" HDPE) N: 993487.779; E: 2832288.317
A5	INSTALL 4'x4' JUNCTION BOX 15+01.93, 0.00' LINE A (3) RIM= 1015.02 INV IN = 1011.98 (15" HDPE) INV IN = 1011.98 (15" 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= 1016.87 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.)

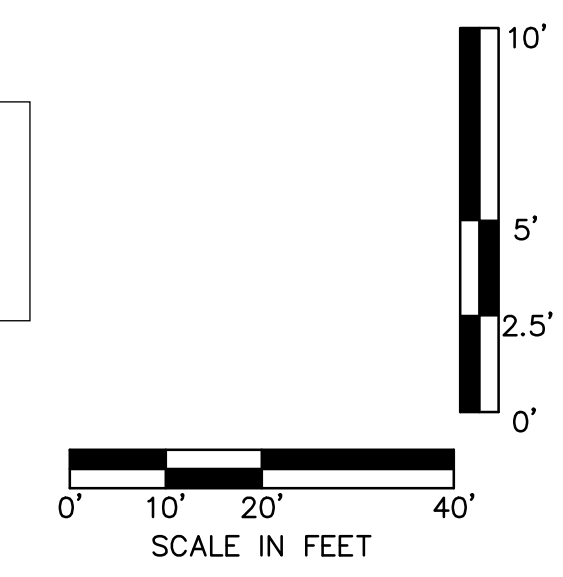
LEGEND

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



RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020



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 Overland Park, KS 66213-4750
 TEL: 913.381.1170
 www.olsson.com

Professional Engineer
 TERRY M. PARSONS
 NUMBER
 PE-2018618565
 11/19/2020

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

FINAL DEVELOPMENT PLAN
 08/28/20

REVISIONS

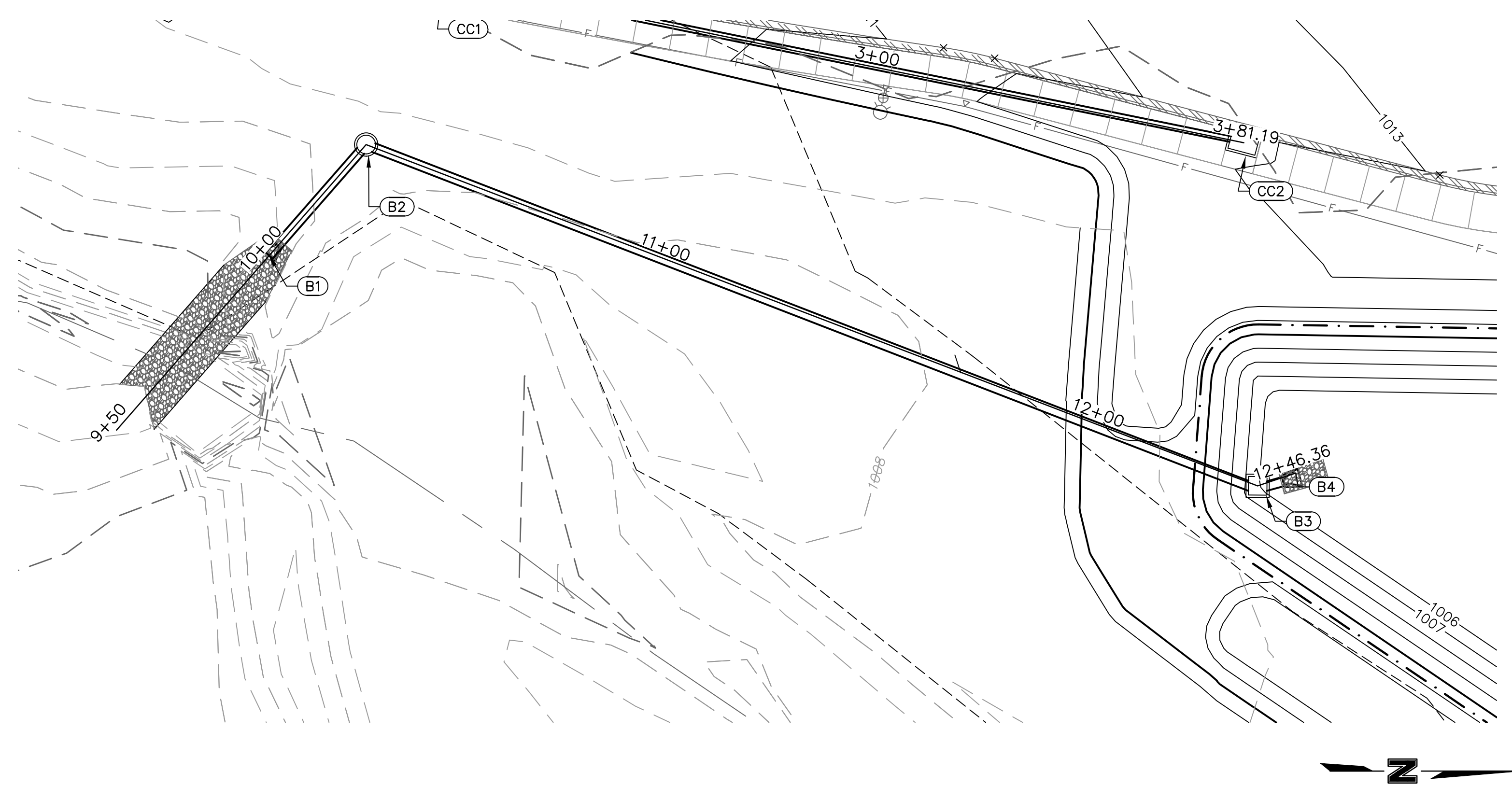
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- 2 REVISD PER CITY COMMENTS 11.04.20
- 3 REVISD PER CITY COMMENTS 11.12.20

13-20102-00

STORM SEWER PLAN & PROFILE - LINE A

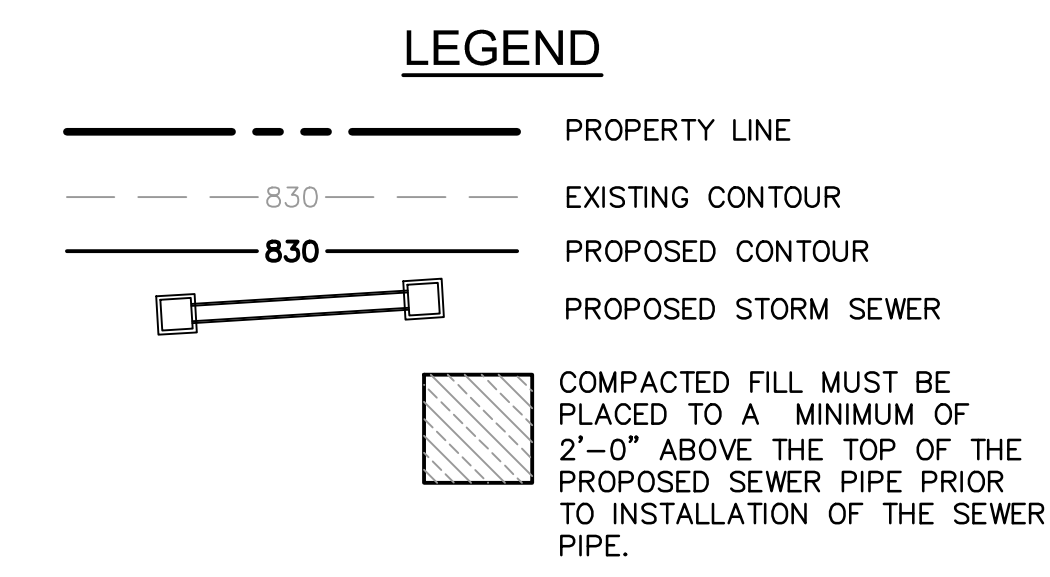
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STRUCTURES	
ID	DESCRIPTION
B1	INSTALL 24" END SECTION WITH CONCRETE TOEWALL AND 26 CY RIPRAP 10+00, 0.00' LINE B RIM= 1005.11 INV IN = 1002.53 (24" HDPE) N: 993084.159; E: 2832531.362
B2	INSTALL STD. 4' DIA. MH 27+01.48, 896.81' RT LINE E RIM= 1007.00 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= 1006.18 INV IN = 1004.33 (24" HDPE) INV OUT = 1004.03 (24" HDPE) N: 993297.366; E: 2832561.043
B4	INSTALL 24" END SECTION WITH CONCRETE TOEWALL AND 2.9 CY RIPRAP ???, ???, ??? LINE E RIM= 1006.95 INV OUT = 1004.37 (24" HDPE) N: 993305.603; E: 2832578.267

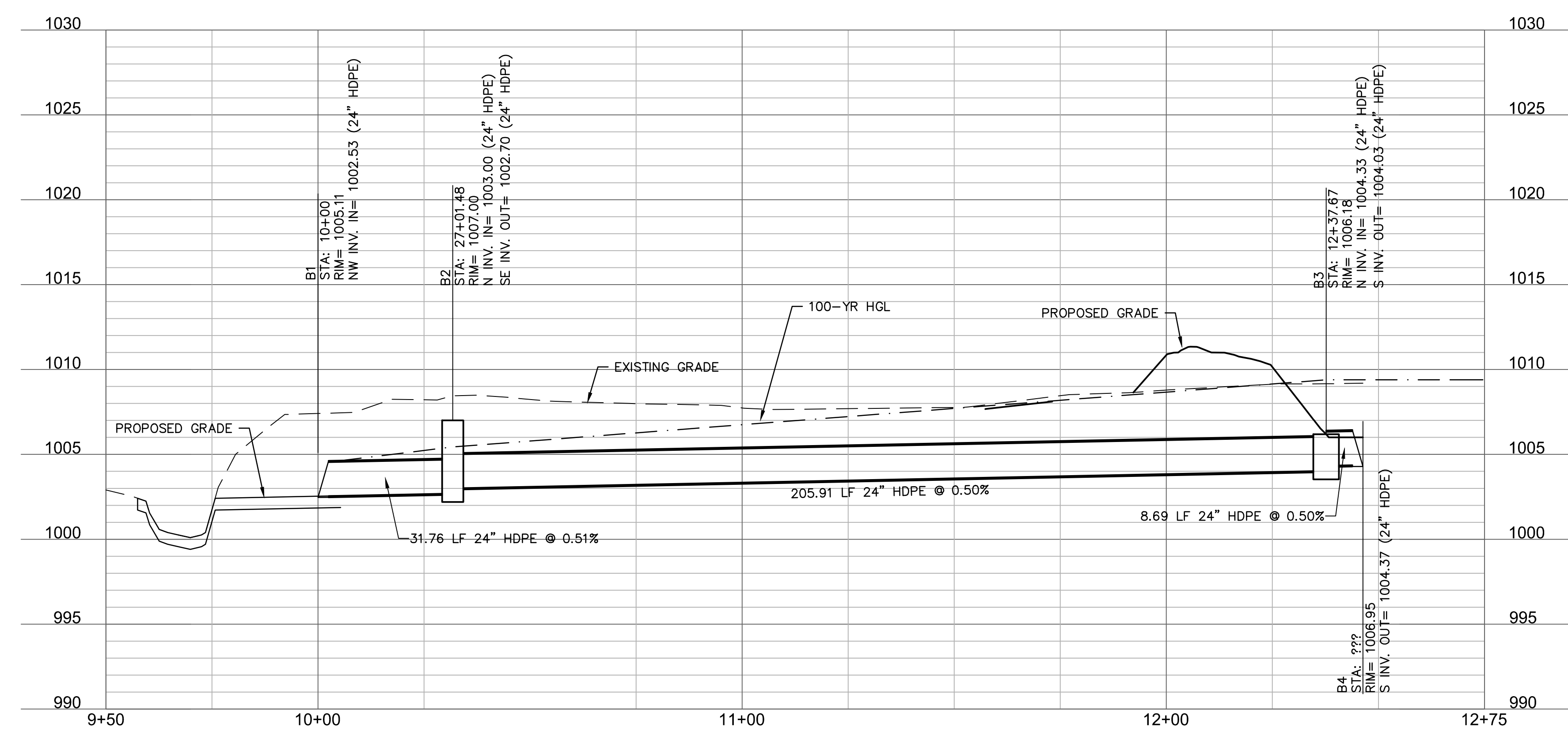
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)



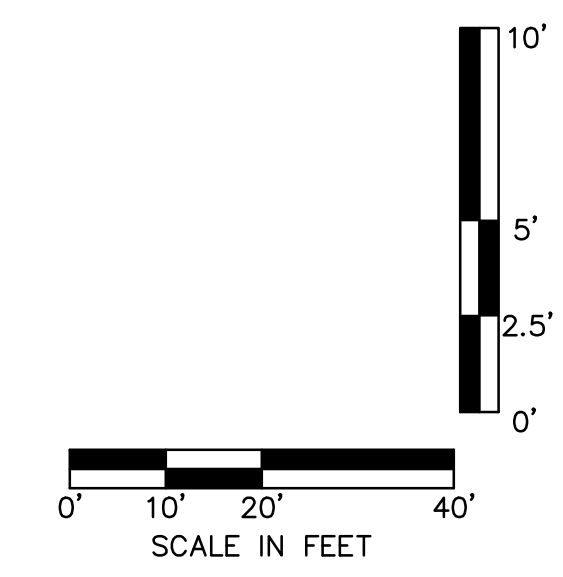
HEC-14 RIPRAP APRON SIZING FOR OUTFALL B-1

	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	11.4

LINE B (9+50 - 12+75)



RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020



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STATE OF MISSOURI
 TERRY M. PARSONS
 NUMBER
 PE-2018610565
 PROFESSIONAL ENGINEER

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

FINAL DEVELOPMENT PLAN
 08/28/20

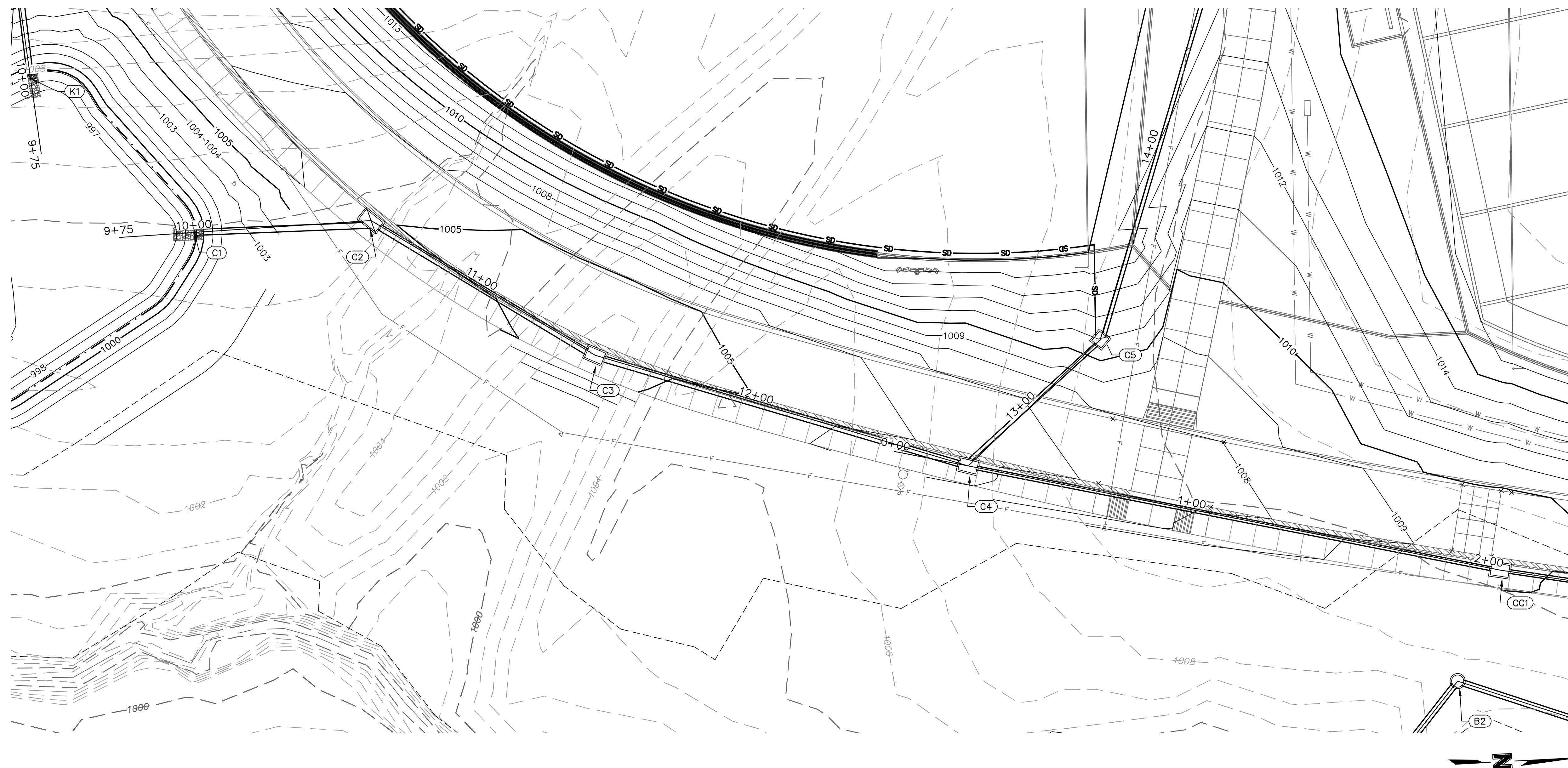
REVISIONS

- 1 REVISION PER CITY COMMENTS 10.01.20
- 2 REVISION PER CITY COMMENTS 11.04.20
- 3 REVISION PER CITY COMMENTS 11.12.20

13-20102-00

STORM SEWER PLAN & PROFILE - LINE B

C1030A



STRUCTURES	
ID	DESCRIPTION
C1	INSTALL 24" DIA. END SECTION WITH TOWALL AND 2.6 CY RIP RAP 10+00, 0.00' RT LINE C RIM= 1002.08 INV IN = 999.50 (24" HDPE) N: 992655.797; 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 = 1002.11 (24" HDPE) N: 992947.233; E: 2832427.690

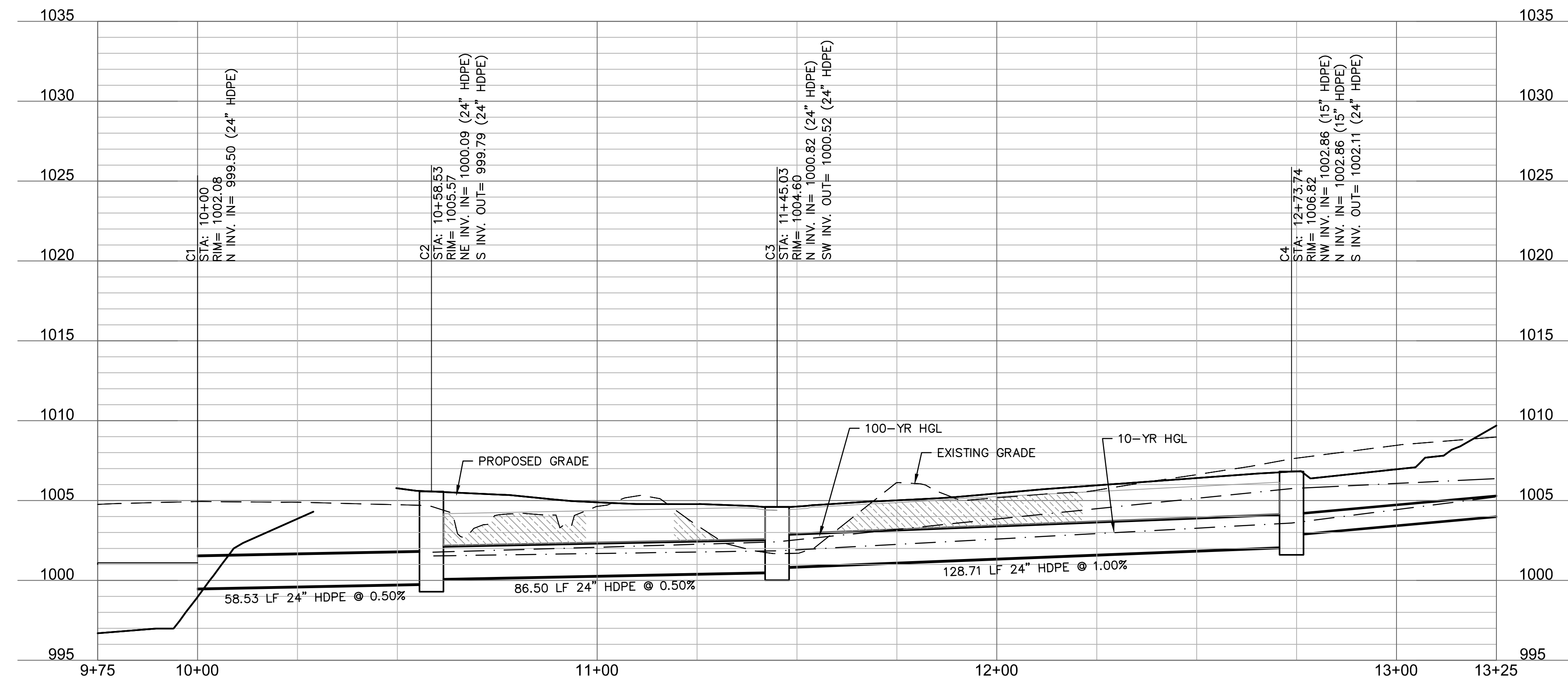
NOTES:

- 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.)

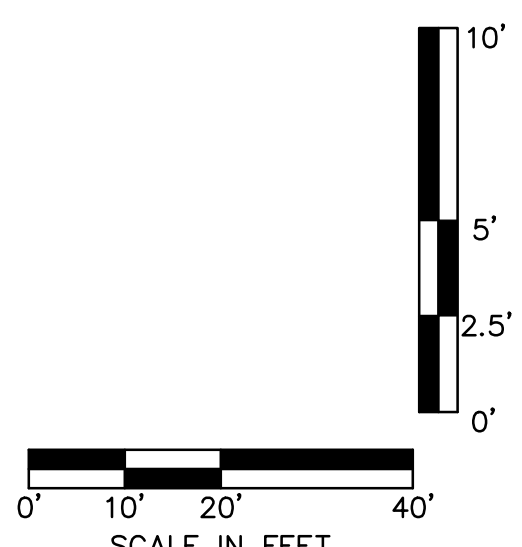
LEGEND

- 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.

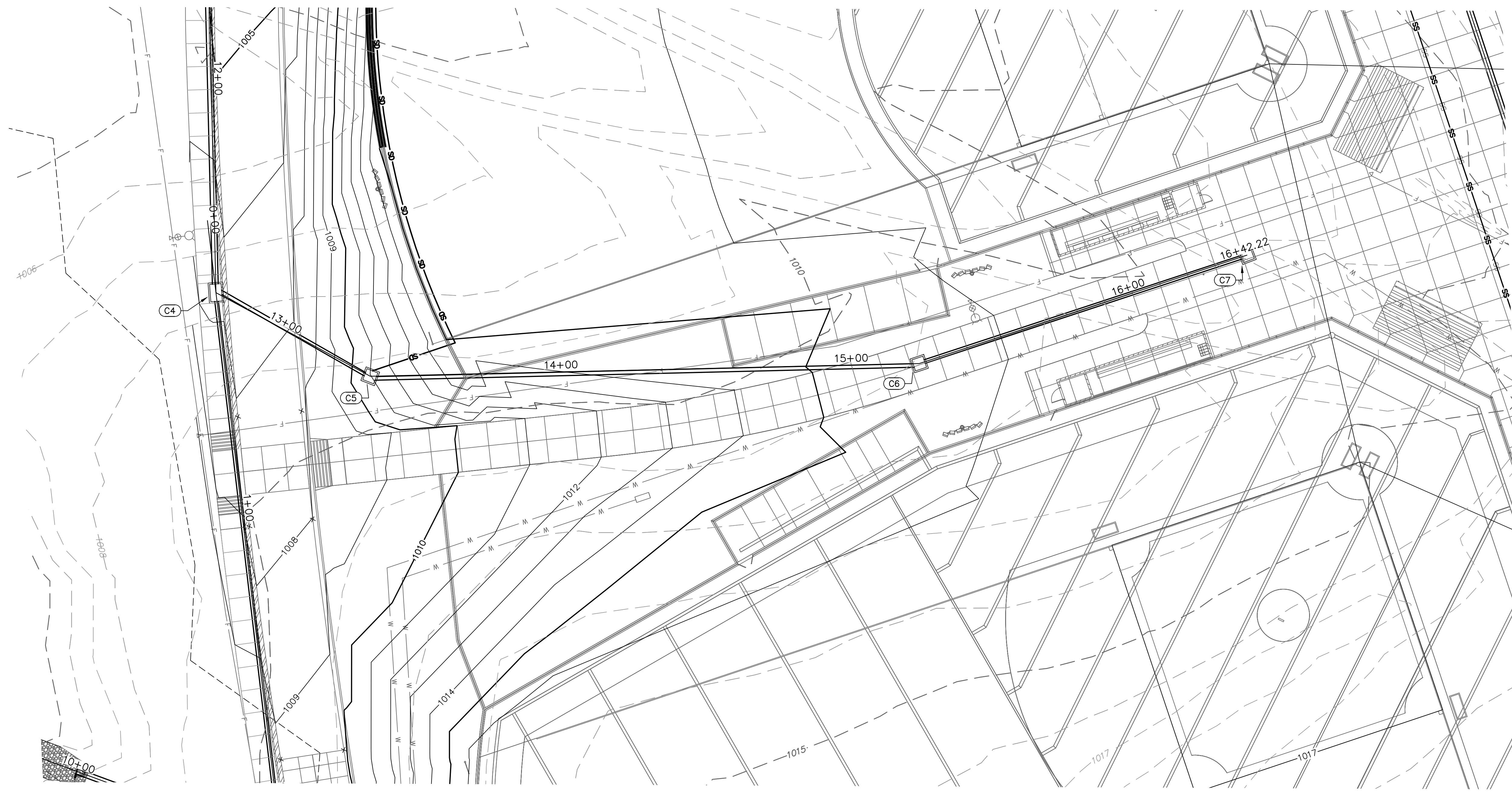
LINE C (9+75 - 13+25)



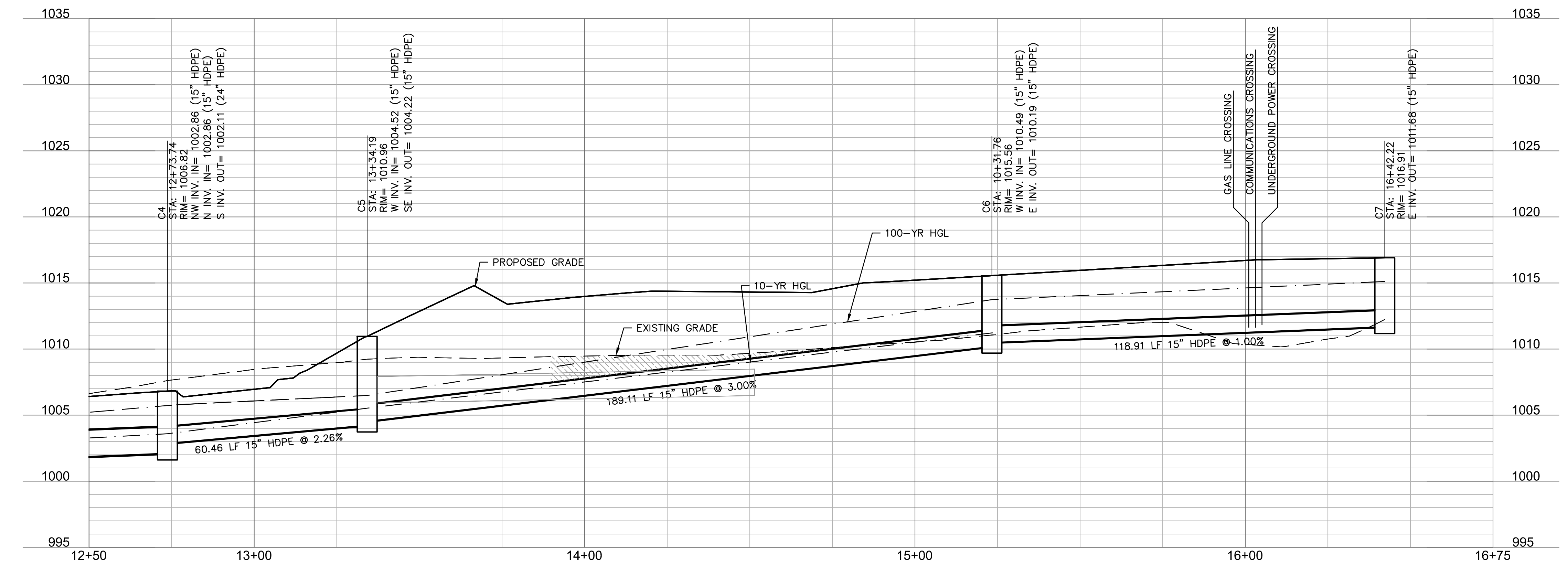
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020



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 USER: bkimmich
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 C_PITBLK_0200103
 C_PBASE_0200103
 C_PSTRM_0200103



LINE C (12+50 - 16+75)



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= 1015.56 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

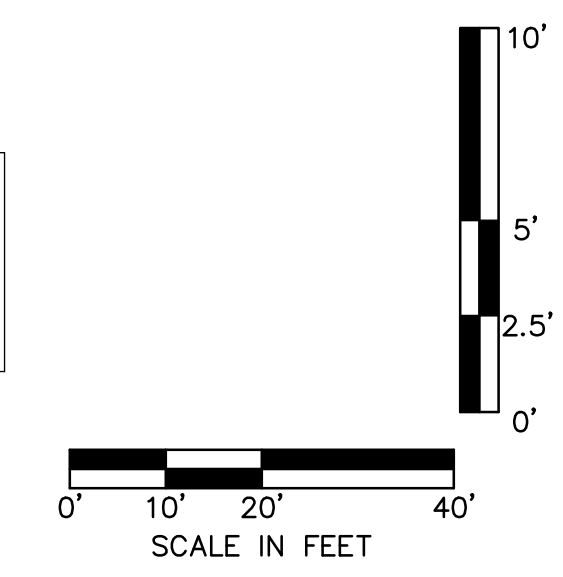
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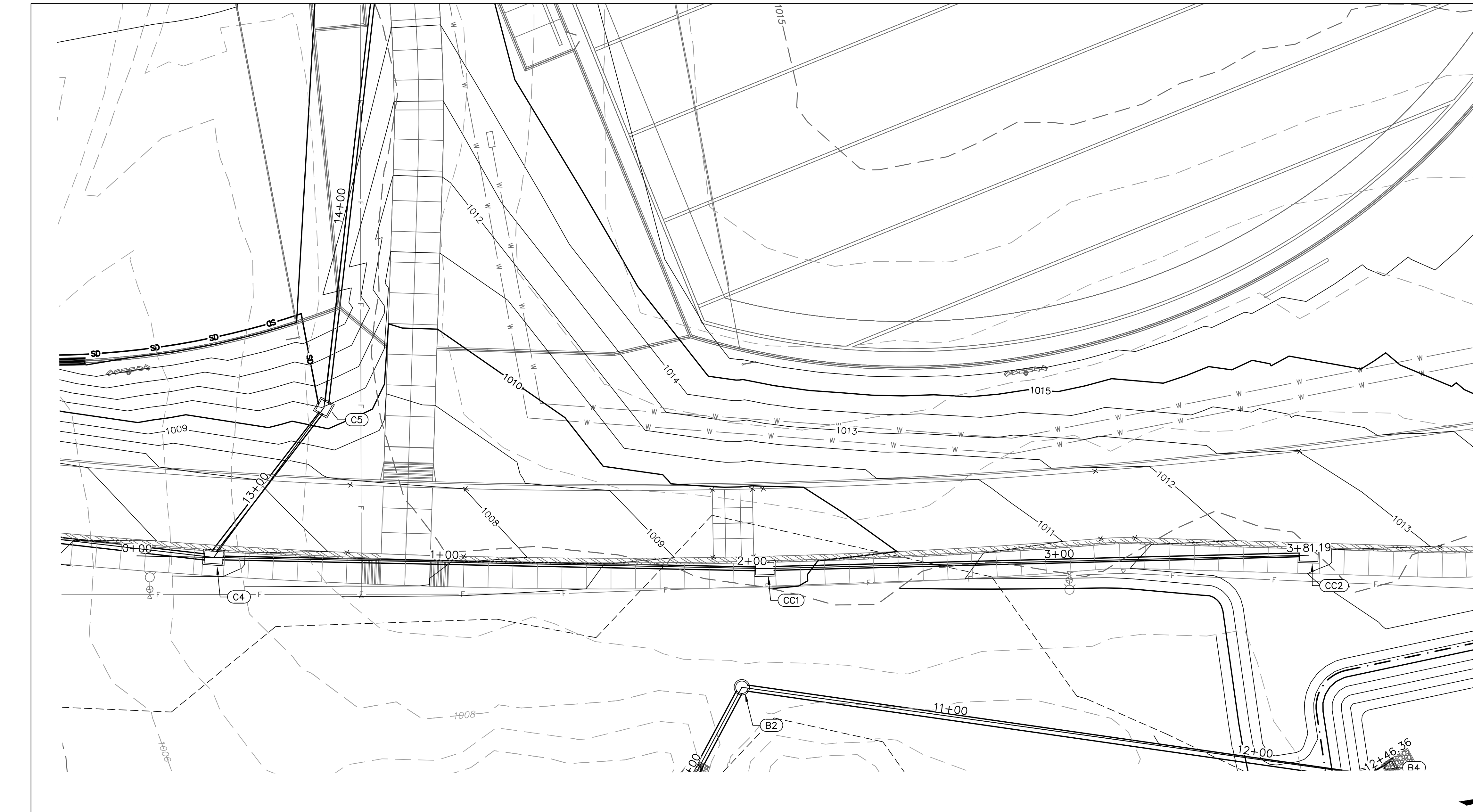
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
- CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)

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.

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020





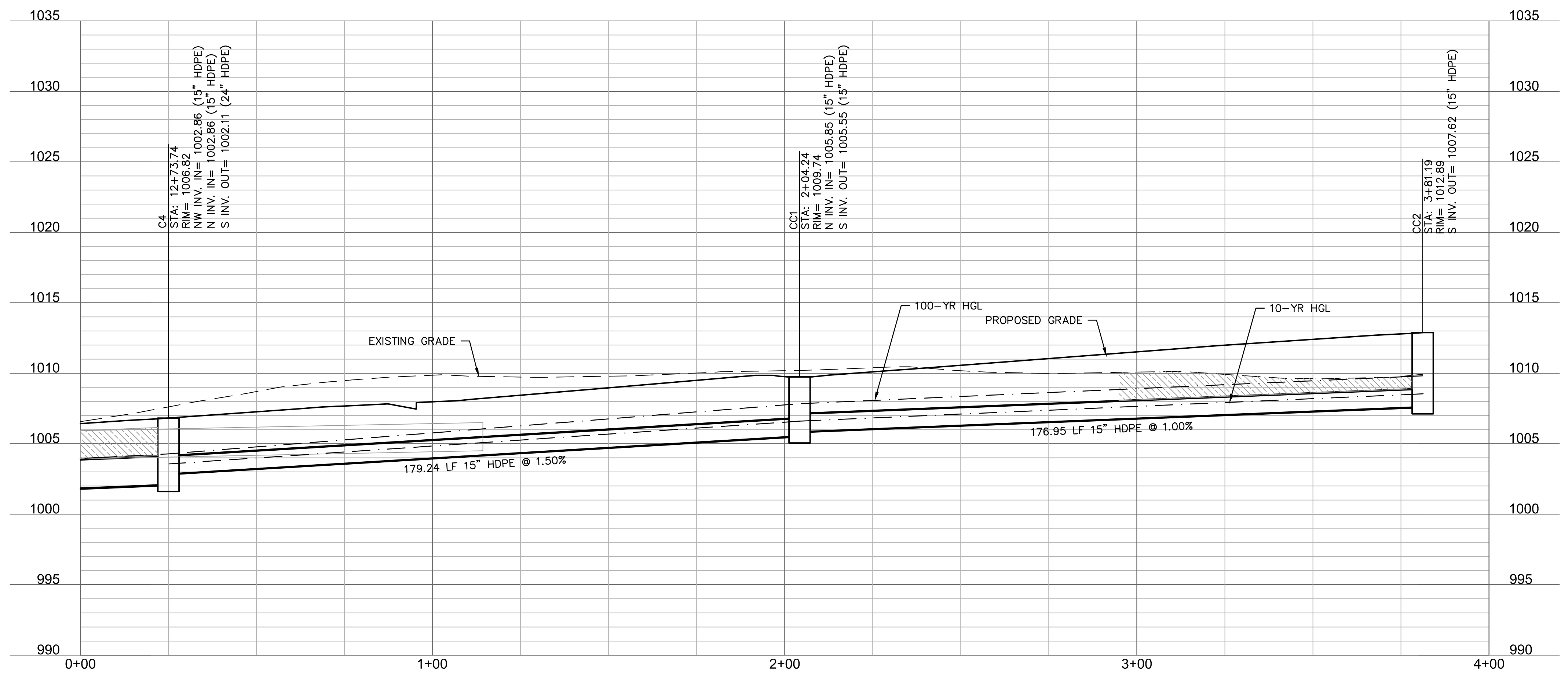
STRUCTURES	
ID	DESCRIPTION
C4	INSTALL 6'X4' NON-SETBACK CURB INLET 12+73.74, 0.00' LINE C RIM= 1006.82 INV IN = 1002.86 (15" HDPE) INV IN = 1002.86 (15" HDPE) INV OUT = 1002.11 (24" HDPE) N: 992947.233; E: 2832427.690
CC1	INSTALL 6'X4' NON-SETBACK CURB INLET 2+04.24, 0.00' LINE CC RIM= 1009.74 INV IN = 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.)

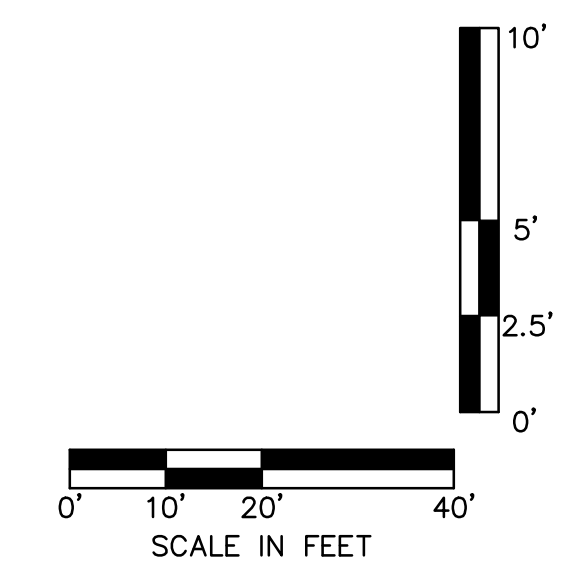
LEGEND

- 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)



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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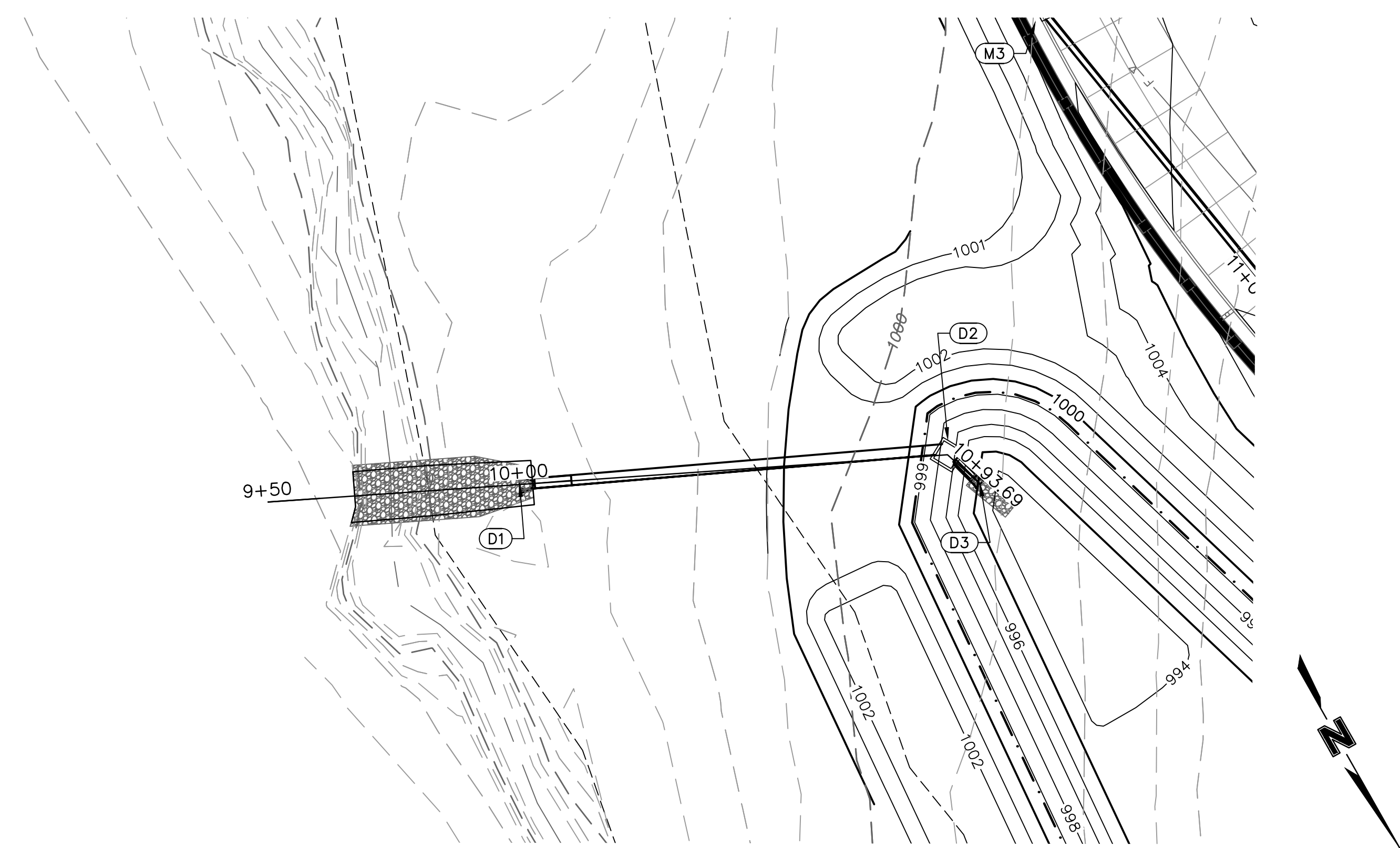
STATE OF MISSOURI
TERRY M. PARSONS
NUMBER
PE-2018610565
Professional Engineer

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

FINAL DEVELOPMENT PLAN
08/28/20
REVISIONS
1 REVISD PER CITY COMMENTS 10.01.20
2 REVISD PER CITY COMMENTS 11.04.20
3 REVISD PER CITY COMMENTS 11.12.20

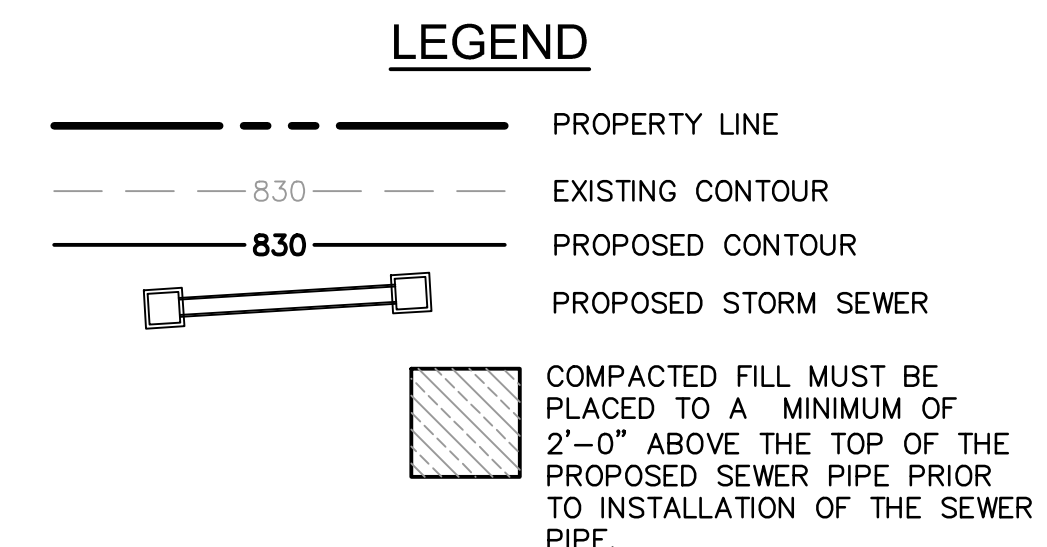
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STORM SEWER PLAN & PROFILE - LINE CC

C1033

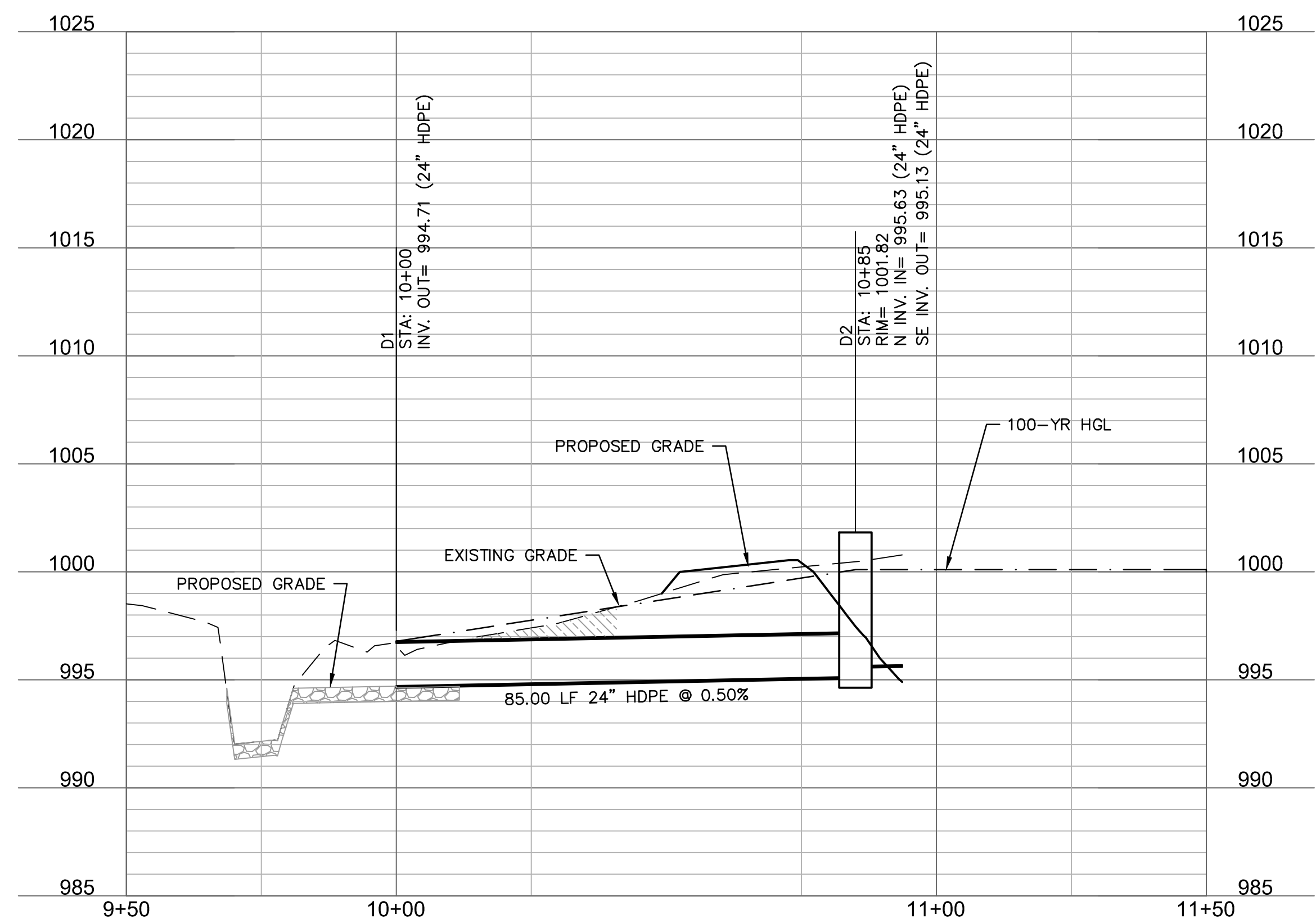


STRUCTURES	
ID	DESCRIPTION
D1	INSTALL 24" DIA. END SECTION WITH CONCRETE TOEWALL AND 27 CY RIPRAP 10+00, 0.00 LINE D RIM = 997.28 INV IN = 994.71 (24" HDPE) N: 992436.343; E: 2832443.658
D2	INSTALL CONTROL STRUCTURE PER C1057 10+85, 0.00 LINE D RIM = 1001.82 INV IN = 995.63 (24" HDPE) INV OUT = 995.13 (24" HDPE) N: 992472.969; E: 2832366.953
D3	INSTALL 24" DIA. END SECTION WITH CONCRETE TOEWALL AND 2.8 CY RIPRAP 204-39.67; 787.52' RT LINE E RIM = 997.83 INV OUT = 995.67 (24" HDPE) N: 992481.205; E: 2832364.177

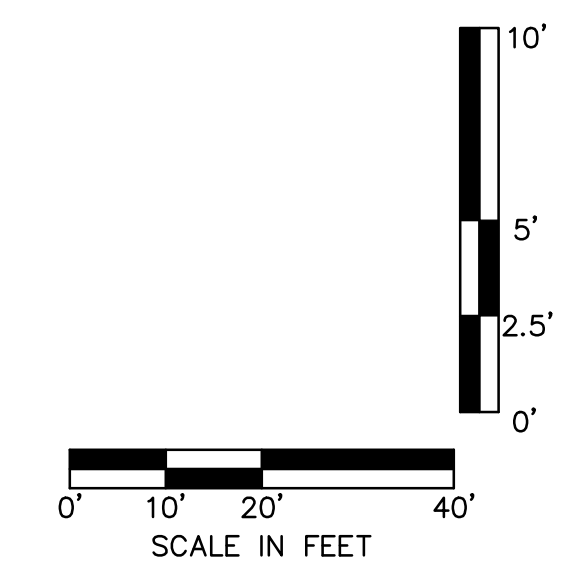
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)



LINE D (9+50 - 11+50)



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020

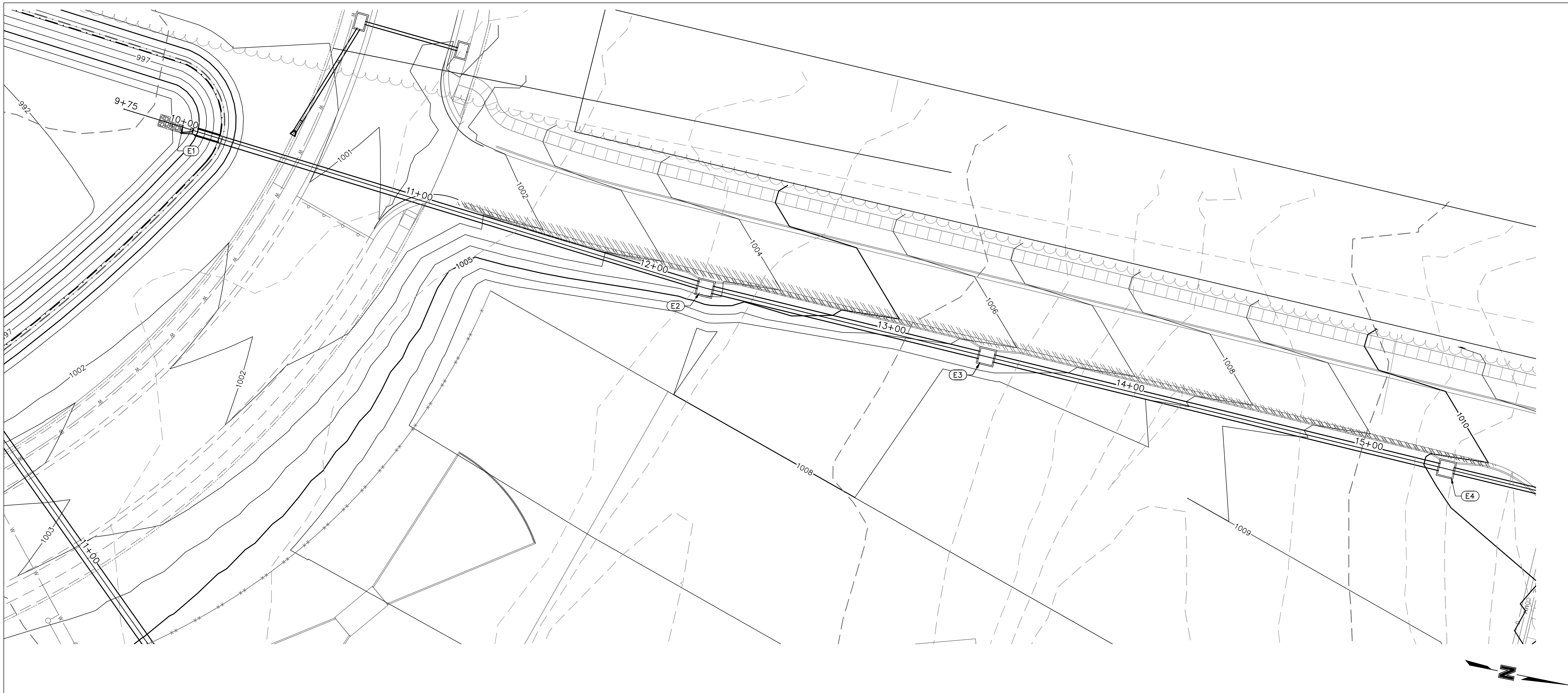


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LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 1. REVISED PER CITY COMMENTS 10.01.20
 2. REVISED PER CITY COMMENTS 11.04.20
 3. REVISED PER CITY COMMENTS 11.12.20



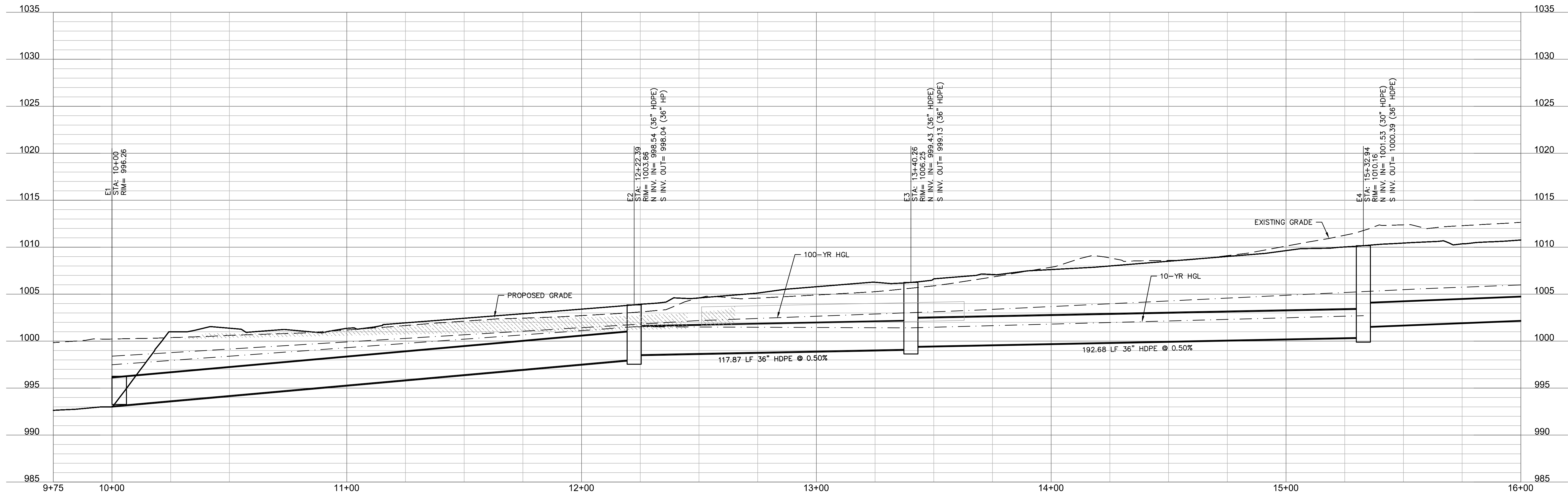
STRUCTURES	
ID	DESCRIPTION
E1	INSTALL 36" DIA. END SECTION WITH CONCRETE TOEWALL AND 2.8 CY RIPRAP 10+00, 0.00' LINE E RIM= 996.26 N: 991475.452; E: 2831522.201
E2	INSTALL 6'X6' CURB INLET 12+22.39, 0.00' LINE E RIM= 1003.86 INV IN = 998.54 (36" HDPE) INV OUT = 998.04 (36" HP) N: 991696.727; E: 2831544.472
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.)

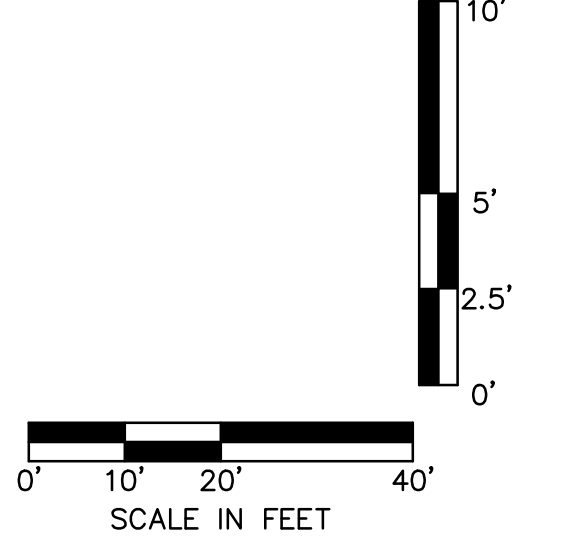
LEGEND

- 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)



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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

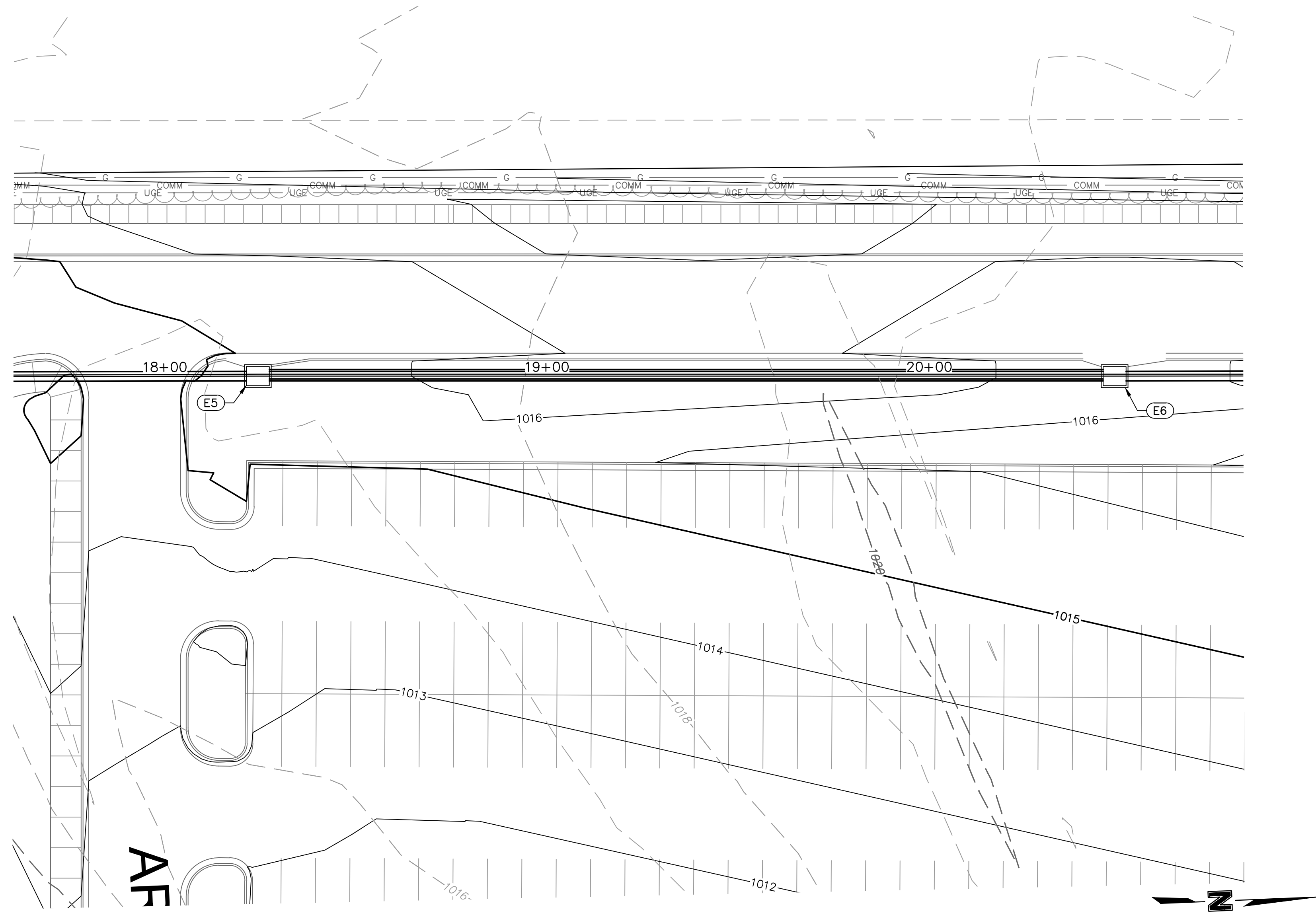
FINAL DEVELOPMENT PLAN
 08/28/20

REVISIONS
 1 REVISED PER CITY COMMENTS 10.01.20
 2 REVISED PER CITY COMMENTS 11.04.20
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13-20102-00

STORM SEWER PLAN & PROFILE - LINE E

C1035

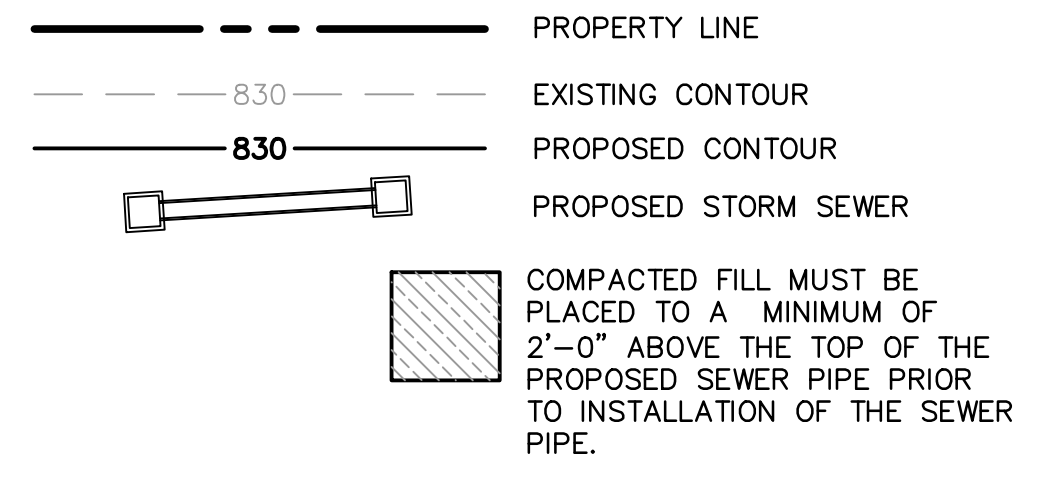


STRUCTURES	
ID	DESCRIPTION
E4	INSTALL 6'X6' CURB INLET 15+32.94, 0.00' LINE E RM= 1010.16 INV IN = 1001.53 (30" HDPE) INV OUT = 1000.39 (36" HDPE) N: 992007.018; E: 2831557.144
E5	INSTALL 6'X6' CURB INLET 18+24.27, 0.00' LINE E RM= 1015.54 INV IN = 1004.71 (30" HDPE) INV OUT = 1004.44 (30" HDPE) N: 992298.126;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

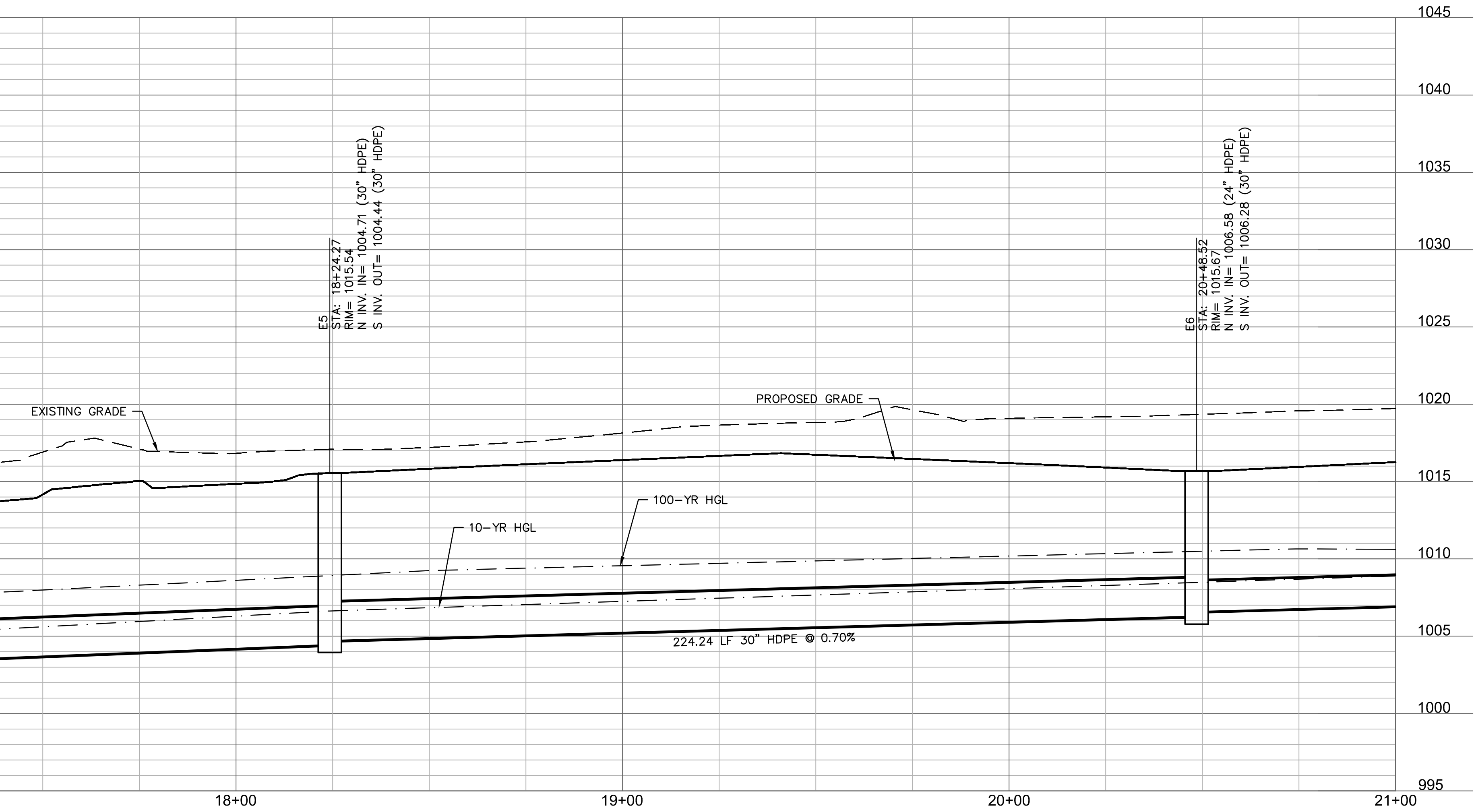
NOTES:

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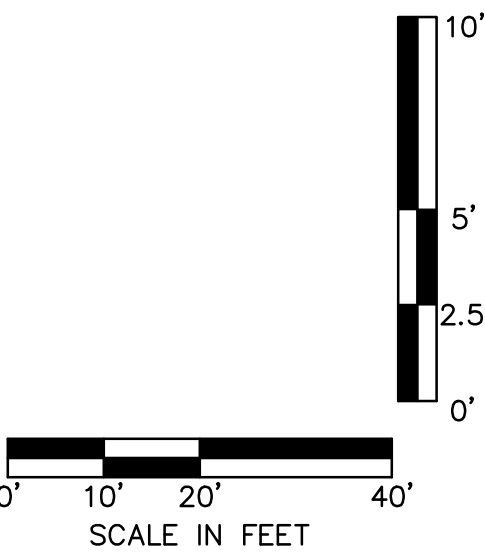
LEGEND



LINE E (15+25 - 21+00)



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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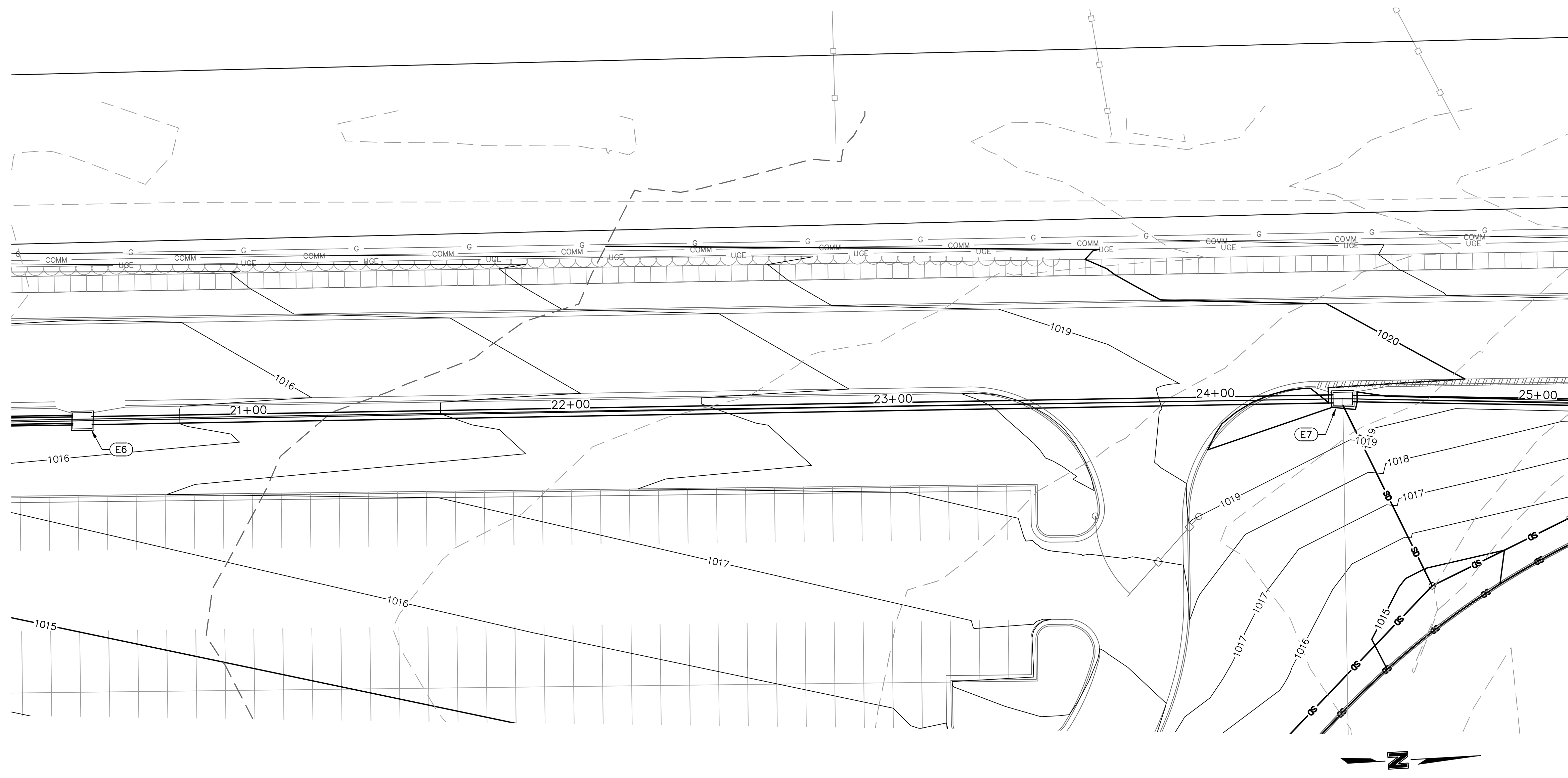


LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 1. REVISED PER CITY COMMENTS 10.01.20
 2. REVISED PER CITY COMMENTS 11.04.20
 3. REVISED PER CITY COMMENTS 11.12.20

13-20102-00
 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 OUT = 1009.32 (24" HDPE) N: 992912.857; E: 2831593.136
E8	INSTALL STD. 4' DIA. MH 26+98.20, -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

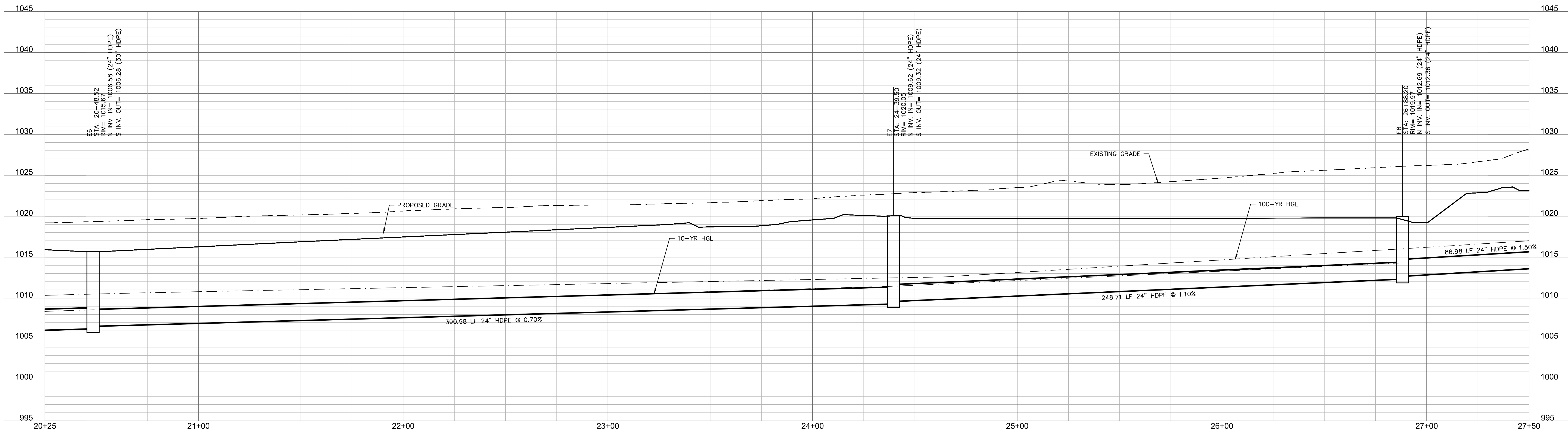
NOTES:

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

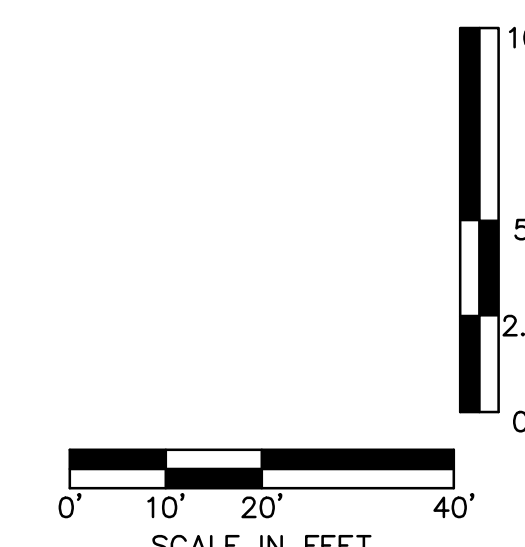
LEGEND

- 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)



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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STATE OF MISSOURI
 TERRY M. PARSONS
 NUMBER
 PE-2018610565
 PROFESSIONAL ENGINEER

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

FINAL DEVELOPMENT PLAN
 08/28/20

REVISIONS
 1 REVISD PER CITY COMMENTS 10.01.20
 2 REVISD PER CITY COMMENTS 11.04.20
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STORM SEWER PLAN & PROFILE - LINE E

C1037



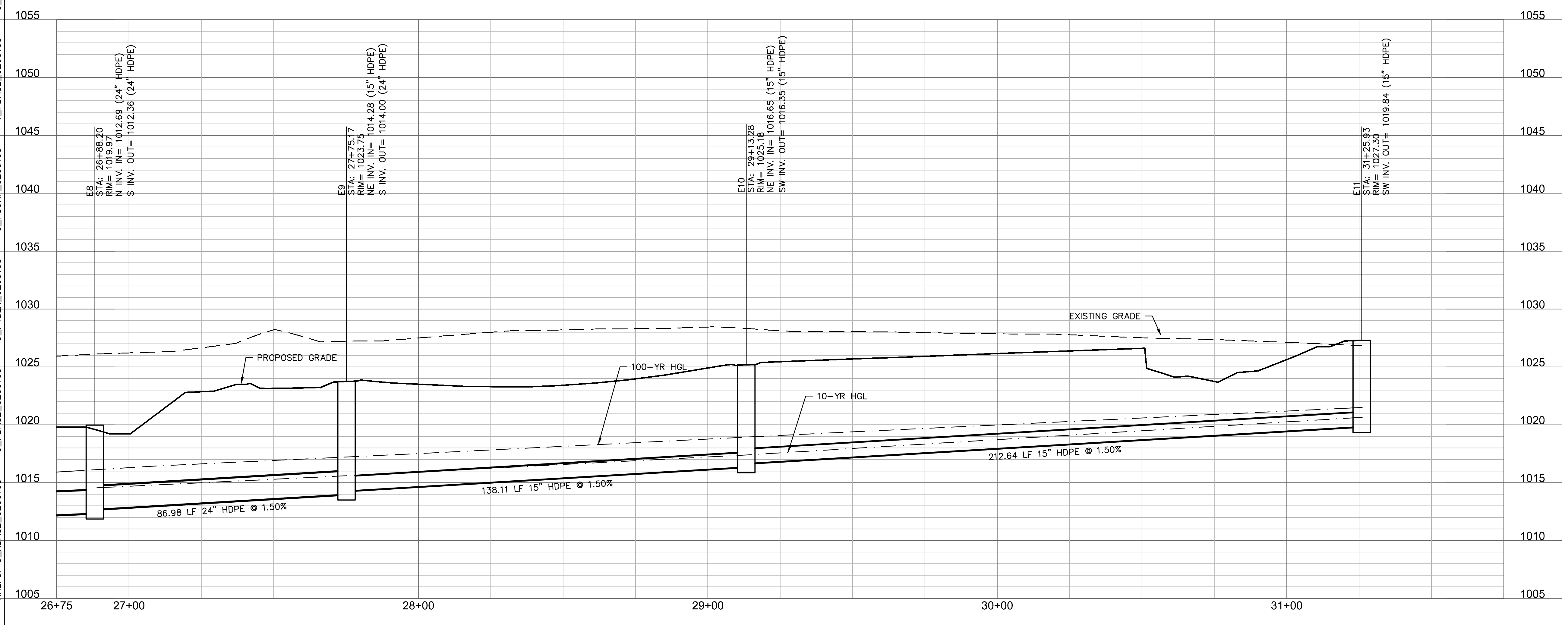
STRUCTURES	
ID	DESCRIPTION
E8	INSTALL STD. 4' DIA. MH 26+88.20, -1.01' LT LINE E RIM = 1019.97 INV IN = 1012.69 (24" HDPE) INV OUT = 1012.36 (24" HDPE) N: 993160.903; E: 2831611.266
E9	INSTALL 6'x5' CURB INLET 27+75.17, 0.00' LINE E RIM = 1023.75 INV IN = 1014.28 (15" HDPE) INV OUT = 1014.00 (24" HDPE) N: 993247.540; E: 2831618.964
E10	INSTALL 6'x4' CURB INLET 29+13.28, 0.00' LINE E RIM = 1025.18 INV IN = 1016.65 (15" HDPE) INV OUT = 1016.35 (15" HDPE) N: 993356.535; E: 2831703.785
E11	INSTALL 6'x4' CURB INLET 31+25.93, 0.00' LINE E RIM = 1027.30 INV OUT = 1019.84 (15" HDPE) N: 993471.679; E: 2831882.557

- NOTES:**
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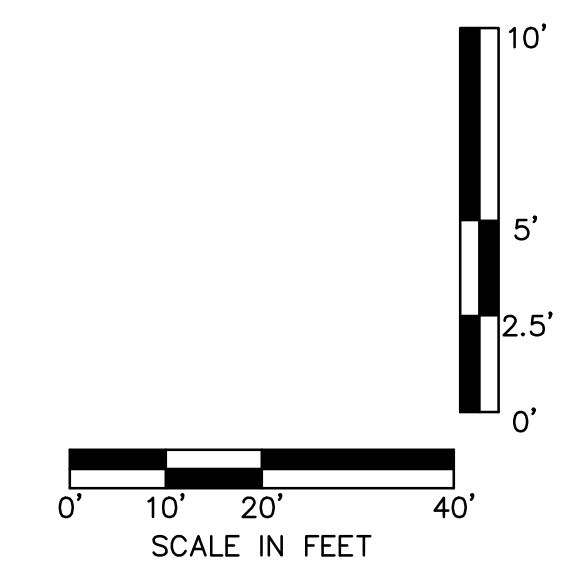
LEGEND

- 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 E (26+75 - 31+75)



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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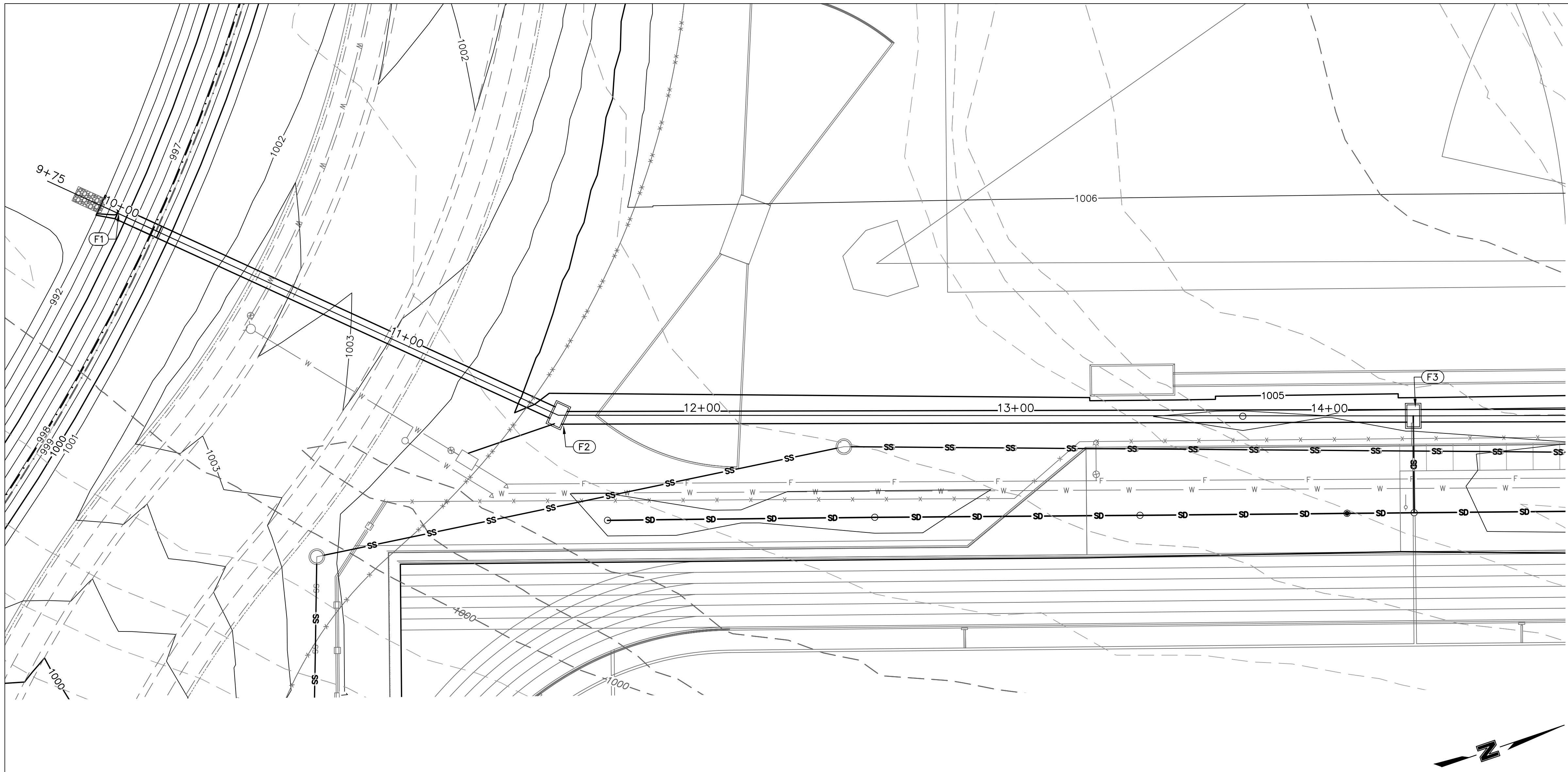
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LEE'S SUMMIT MIDDLE SCHOOL #4
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
08/28/20
REVISIONS
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3 REVISD PER CITY COMMENTS 11.12.20

13-20102-00
STORM SEWER PLAN & PROFILE - LINE E
C1038

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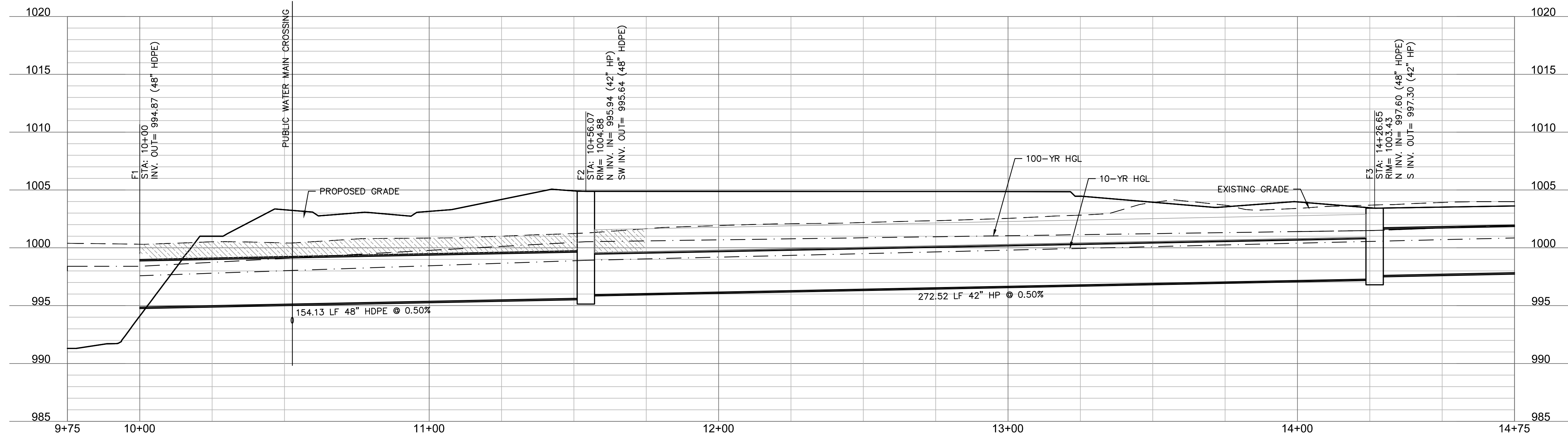
STRUCTURES	
ID	DESCRIPTION
F1	INSTALL 48" END SECTION WITH CONCRETE TOEWALL AND 2.8 CY RIPRAP 10+00, 0.00' LINE F RIM= 999.49 INV IN = 994.87 (48" HDPE) N: 991398.070; E: 2831632.042
F2	INSTALL 7'x4" JUNCTION BOX 10+56.07, 211.14' RT LINE F RIM= 1004.88 INV IN = 995.94 (42" HP) INV OUT = 995.64 (48" 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 (42" HP) N: 991768.065; E: 2831825.747

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

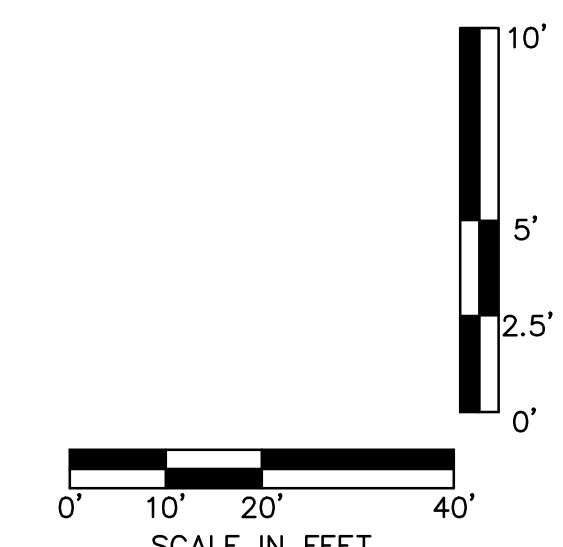
LEGEND

- 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 F (9+75 - 14+75)



RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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 PROFESSIONAL ENGINEER
 NUMBER PE-2018610565

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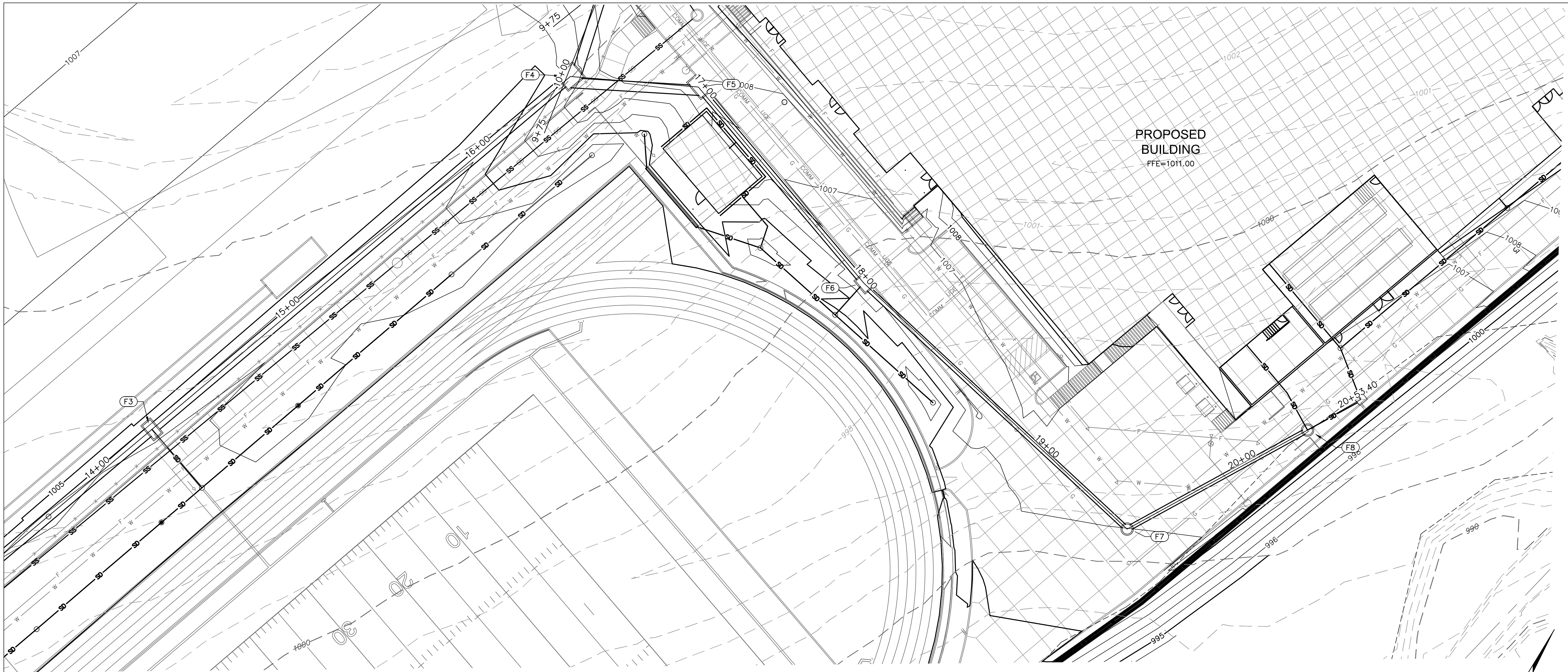
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FINAL DEVELOPMENT PLAN
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 3. REVISED PER CITY COMMENTS 11.12.20

13-20102-00

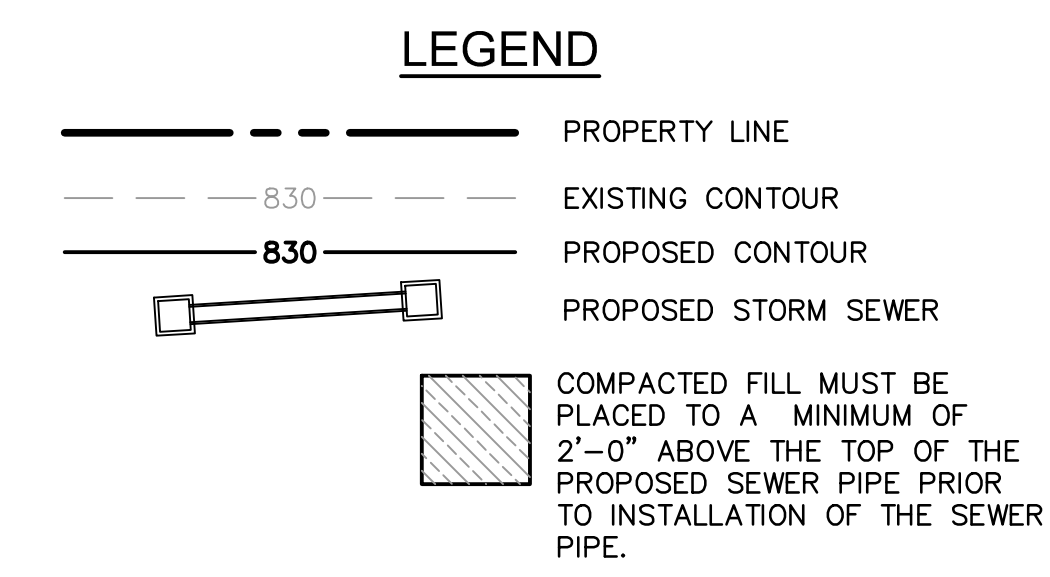
STORM SEWER PLAN & PROFILE - LINE F

C1039

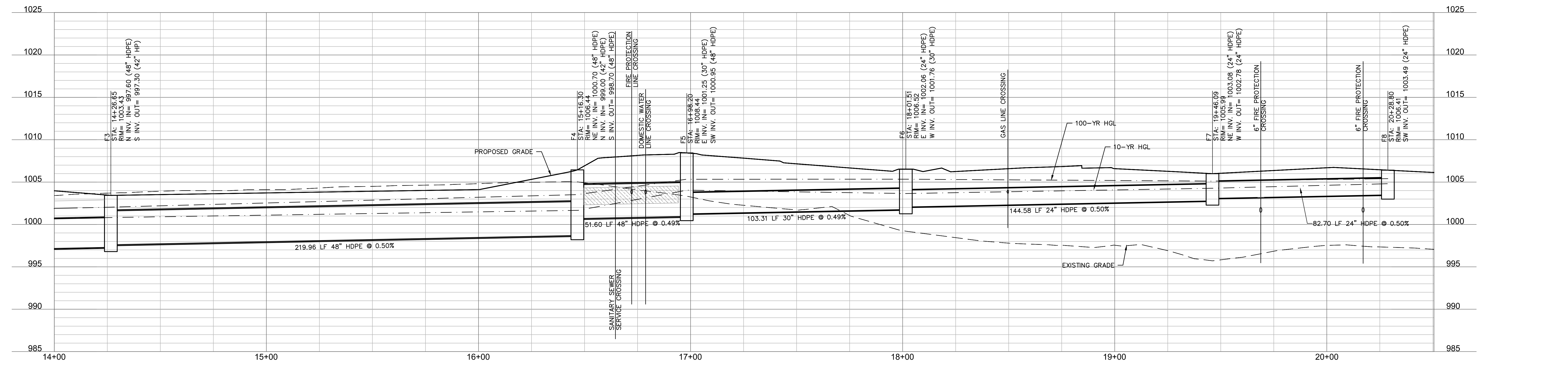


STRUCTURES	
ID	DESCRIPTION
F3	INSTALL 7'X4' DOUBLE GRATE INLET 14+26.65, 0.00' LINE F RIM= 1003.43 INV IN = 997.60 (48" HDPE) INV OUT = 997.30 (42" HP) N: 991766.065; E: 2831925.747
F4	INSTALL 9'X7' JUNCTION BOX 15+16.30, 339.76' RT LINE F RIM= 1006.44 INV IN = 1000.70 (48" HDPE) INV OUT = 999.00 (42" HDPE) INV OUT = 998.70 (48" HDPE) N: 991976.575; E: 2831925.941
F5	INSTALL 9'X5' NON-SETBACK CURB INLET 16+98.20, 0.00' LINE F RIM= 1008.44 INV IN = 1001.25 (30" HDPE) INV OUT = 1000.95 (48" HDPE) N: 991999.575; E: 2832042.104
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 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 OUT = 1003.49 (24" HDPE) N: 992008.656; E: 2832222.680

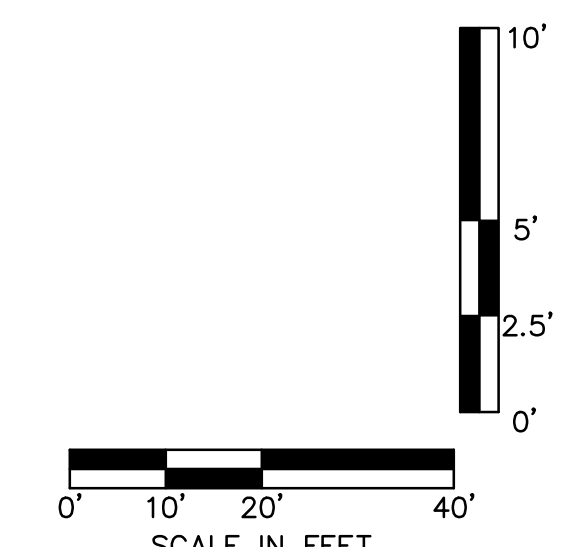
- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
 - CONTRACTOR TO INSTALL CONCRETE COLLAR AROUND ALL ADS DRAIN BASINS (SEE DETAILS IN THESE PLANS.)



LINE F (14+00 - 20+50.51)



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



DWG: F:\2020\0001-0500\0200-0103\40-Design\AutoCAD\Final Plans\Sheets\GNCA\CONSTRUCTION DOCUMENTS\C_STM01_0200103.dwg
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 USER: bkimmich
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 C_PSTRM_0200103
 C_PBLK_0200103
 C_PSURF_0200103

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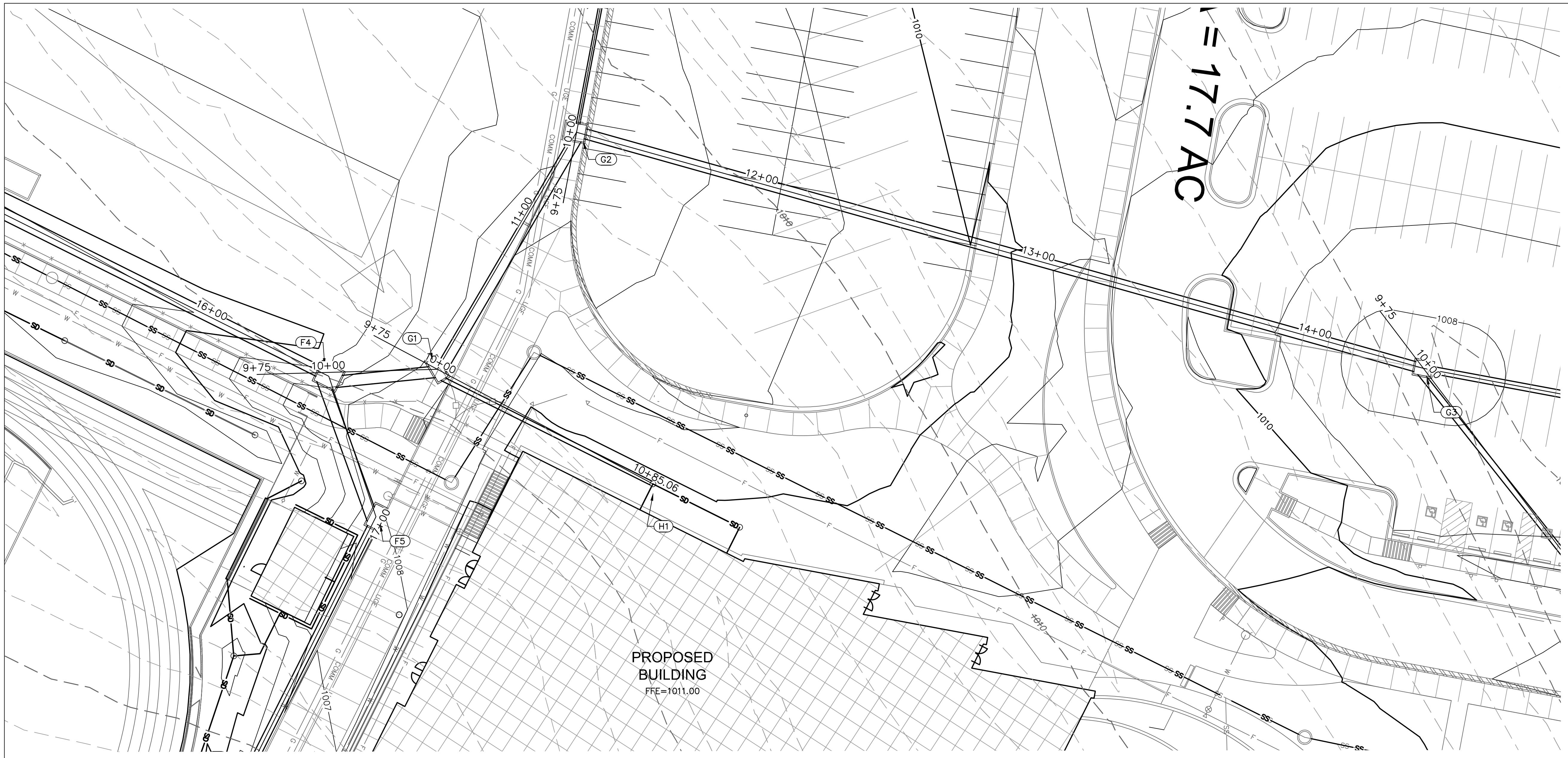
LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 1 REVISED PER CITY COMMENTS 10.01.20
 2 REVISED PER CITY COMMENTS 11.04.20
 3 REVISED PER CITY COMMENTS 11.12.20

13-20102-00

STORM SEWER PLAN & PROFILE - LINE F

C1040



STRUCTURES	
ID	DESCRIPTION
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 = 998.20 (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 = 999.70 (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 = 1000.39 (42" HDPE) INV IN = 1002.44 (15" HDPE) INV OUT = 1000.19 (42" HDPE) N: 992050.220; E: 2831799.815
G3	INSTALL 6'X6' 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

PROPOSED BUILDING
FFE=1011.00

17.7 AC

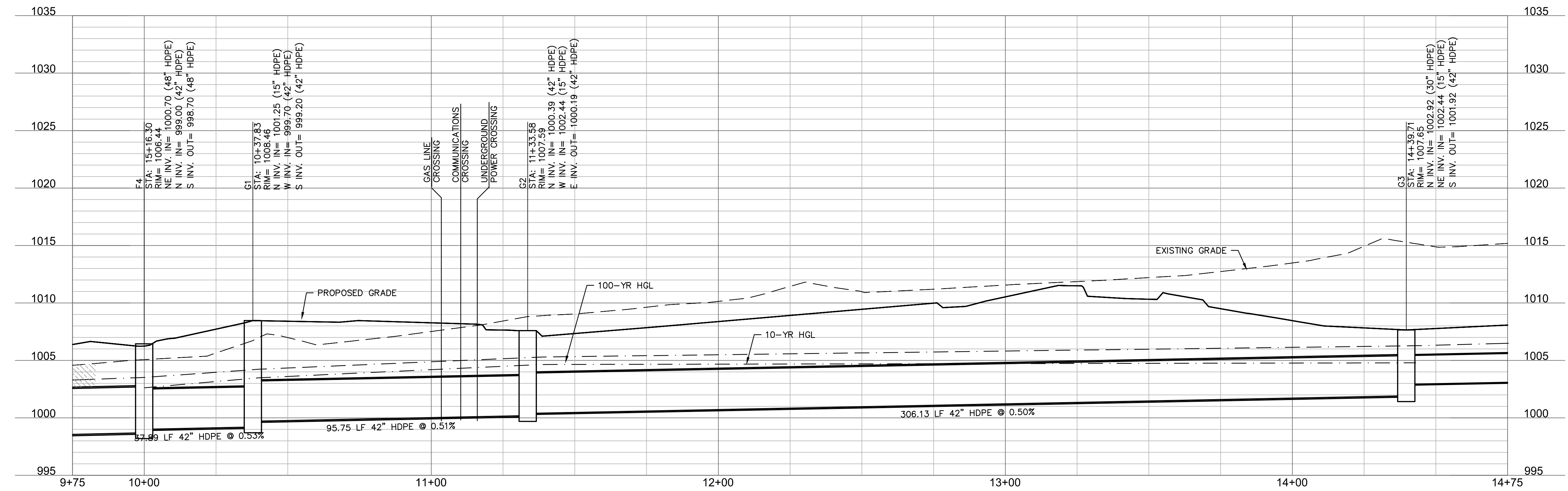
NOTES:

- 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.)

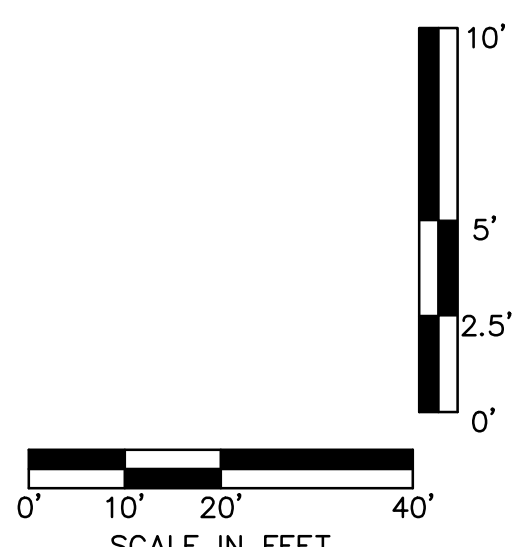
LEGEND

- 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 (9+75 - 14+75)



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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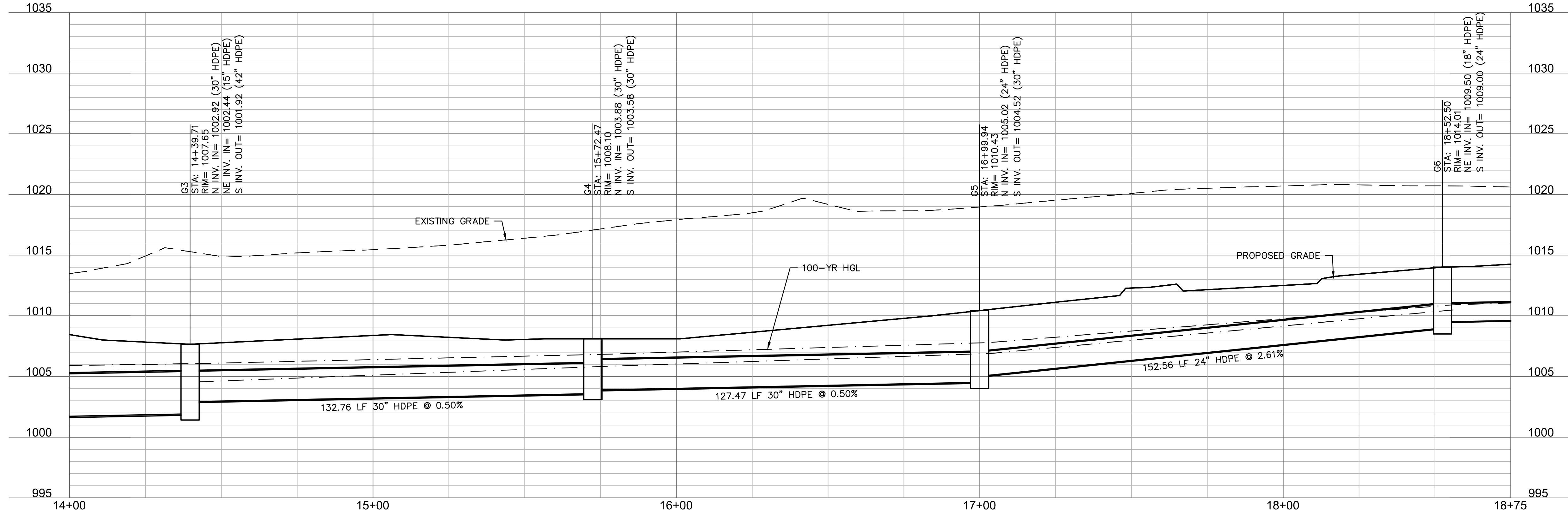
STRUCTURES	
ID	DESCRIPTION
G3	INSTALL 6'X5' DOUBLE GRATE INLET 14+39.71, 0.00' LINE G RIM= 1007.65 INV IN = 1002.92 (30" HDPE) INV IN = 1002.44 (15" HDPE) INV OUT = 1001.92 (42" HDPE) N: 992353.638; E: 2831840.461
G4	INSTALL 5'X5' DOUBLE GRATE INLET 15+72.47, 0.00' LINE G RIM= 1008.10 INV IN = 1003.88 (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= 1014.01 INV IN = 1009.50 (18" HDPE) INV OUT = 1009.00 (24" HDPE) N: 992765.725; E: 2831863.789

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

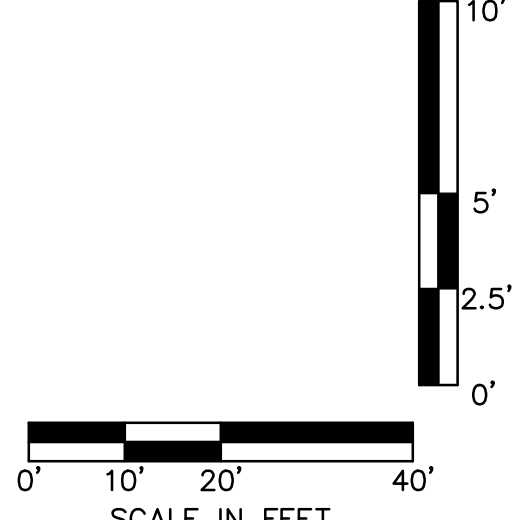
LEGEND

- 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.

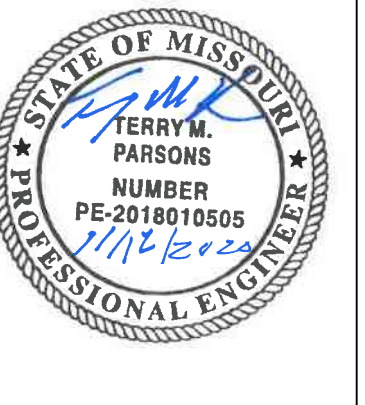
LINE G (14+00 - 18+75)



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



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STRUCTURES	
ID	DESCRIPTION
G6	INSTALL 5'x4' JUNCTION BOX 18+52.50, 0.00' LINE G RIM = 1014.01 INV IN = 1009.50 (18" HDPE) INV OUT = 1009.00 (24" HDPE) N: 992765.725; E: 2831863.789
G7	INSTALL 4'x4' JUNCTION BOX 19+79.80, 0.00' LINE G RIM = 1014.48 INV IN = 1010.44 (15" HDPE) INV OUT = 1010.14 (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 = 1016.43 INV IN = 1011.40 (15" HDPE) INV OUT = 1011.10 (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 = 1017.00 INV IN = 1012.28 (15" HDPE) N: 993160.211; E: 2831996.383

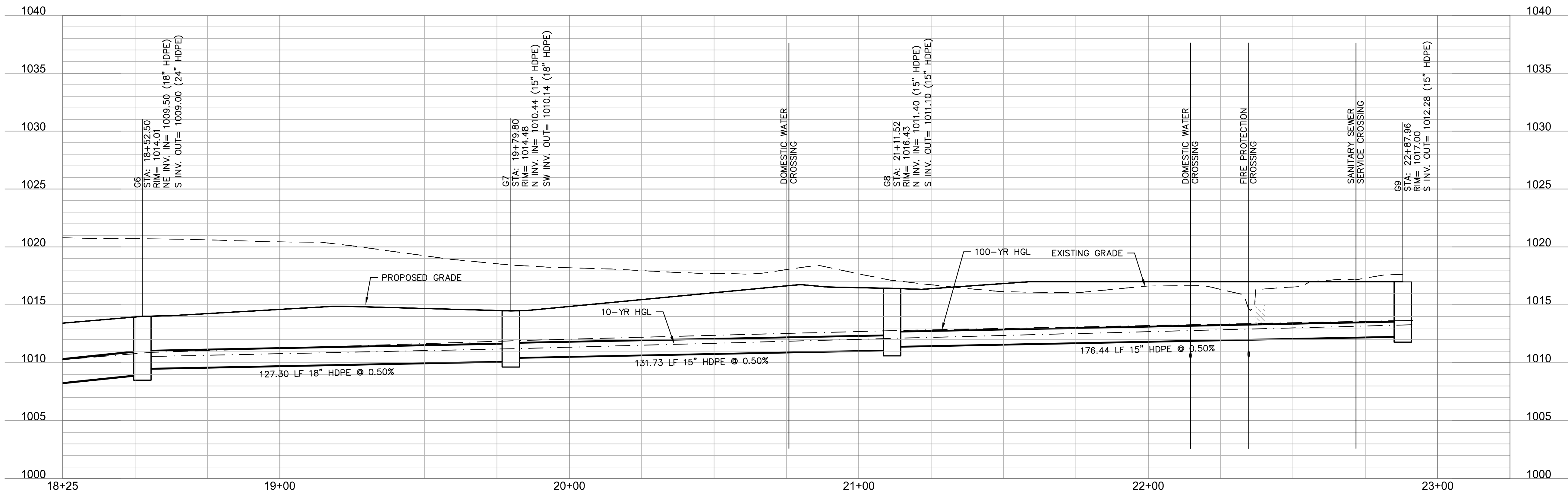
NOTES:

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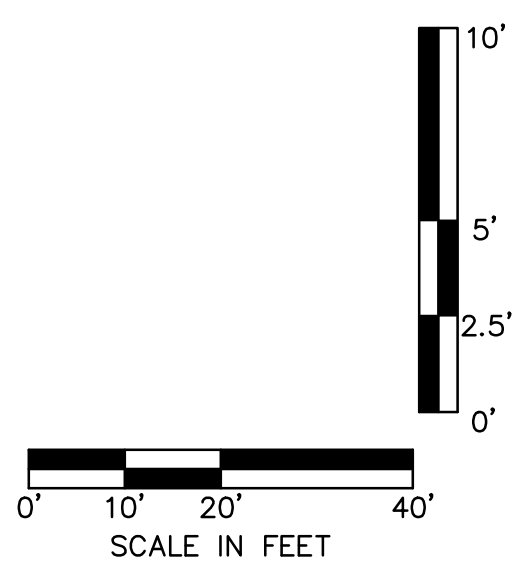
LEGEND

- 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 G (18+25 - 23+25)



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020



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 USER: bkimmich T_PBASE_0200103

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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

FINAL DEVELOPMENT PLAN
08/28/20

REVISIONS

- 1 REVISD PER CITY COMMENTS 10.01.20
- 2 REVISD PER CITY COMMENTS 11.04.20
- 3 REVISD PER CITY COMMENTS 11.12.20

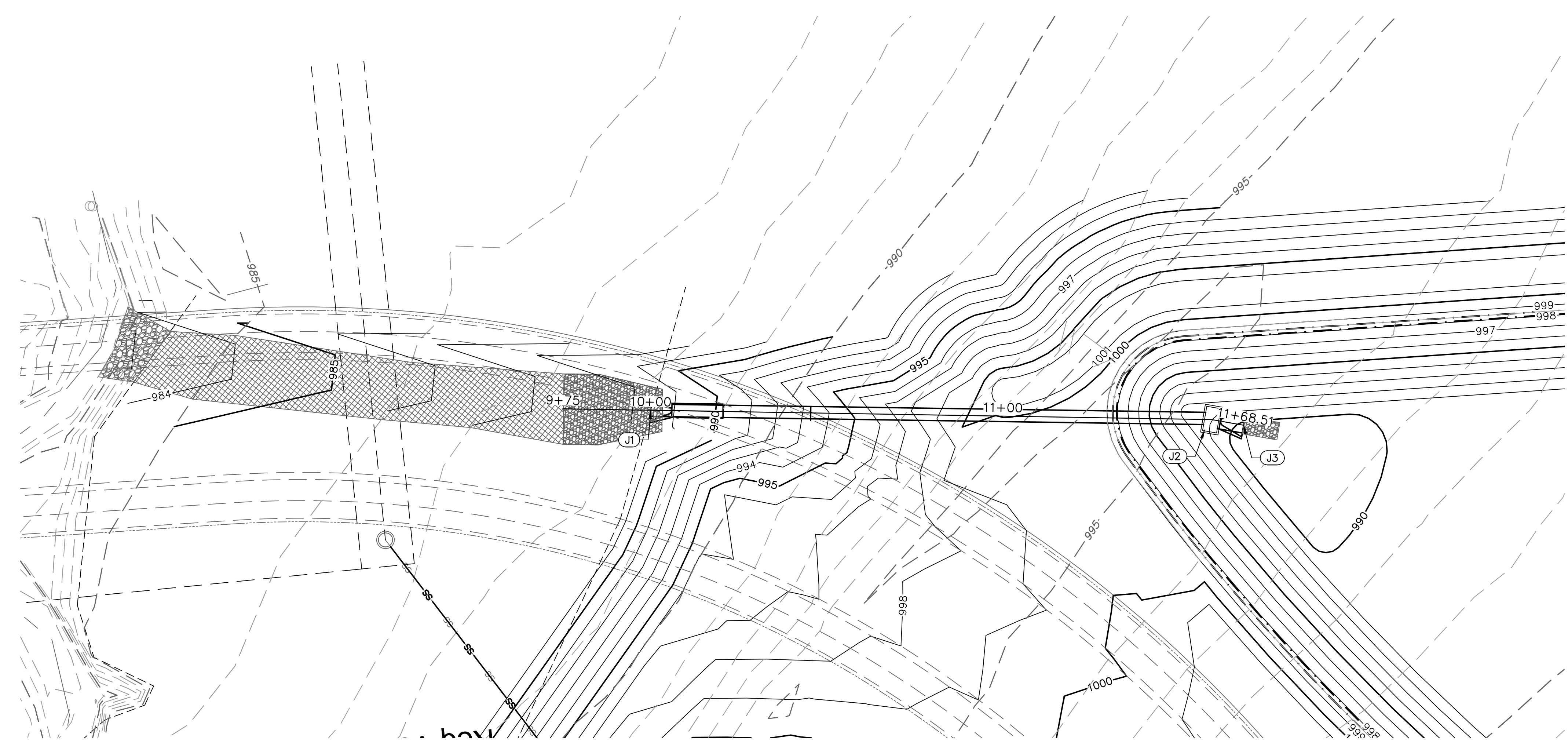
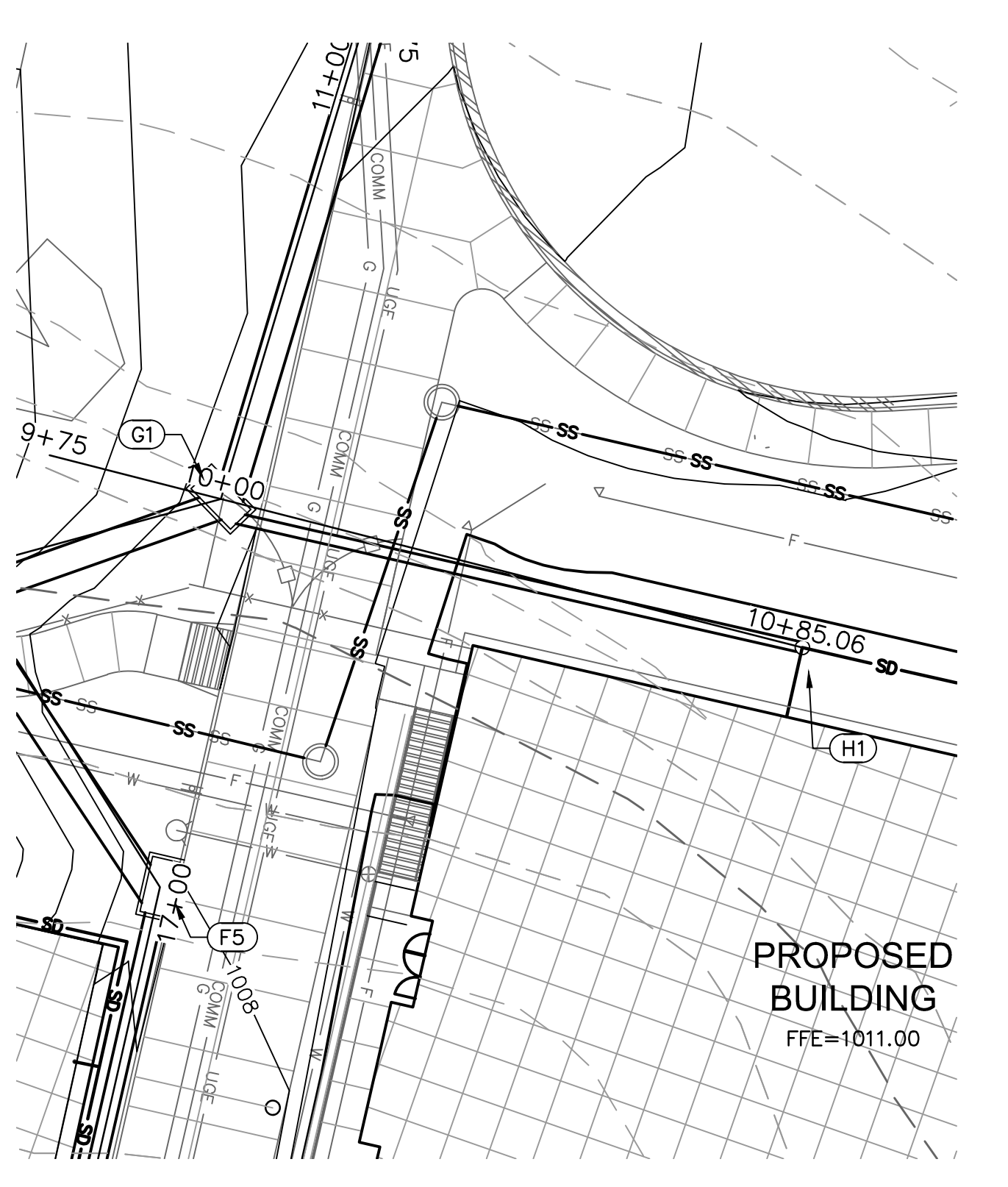
13-20102-00

STORM SEWER PLAN & PROFILE - LINE G

C1043

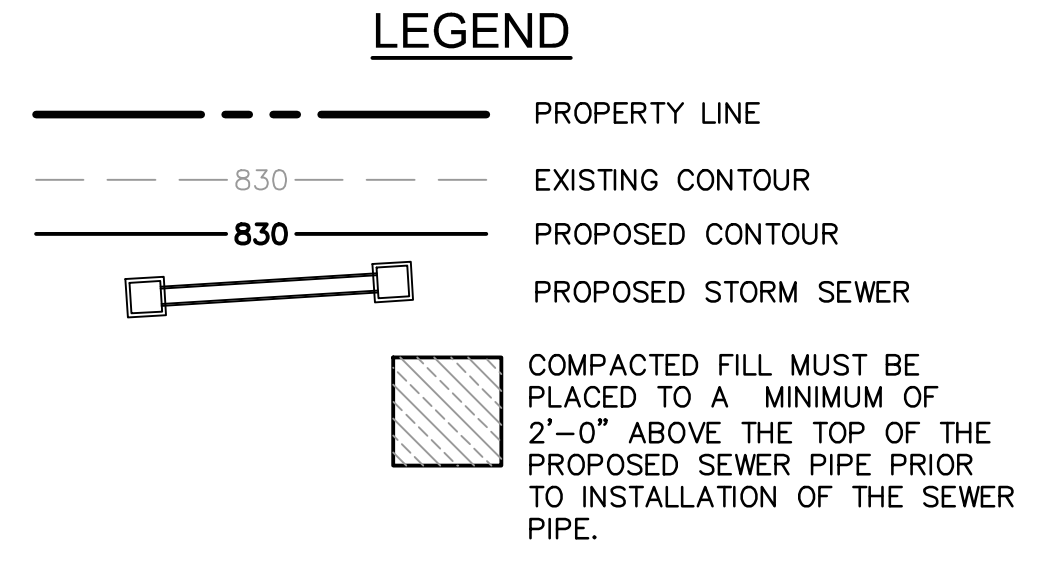
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STRUCTURES	
ID	DESCRIPTION
G1	INSTALL 8'X4' JUNCTION BOX 10+37.83, 0.00' RT LINE G RIM = 1008.46 INV IN = 1001.25 (15" HDPE) INV IN = 999.70 (42" HDPE) INV OUT = 999.20 (42" HDPE) N: 992013.639; E: 2831888.297
H1	INSTALL 2' DIA. NYLOPLAST BASIN WITH SOLID LID 10+85.06, 0.00' LINE H RIM = 1010.25 INV OUT = 1005.56 (15" HDPE) N: 992093.480; E: 2831917.465

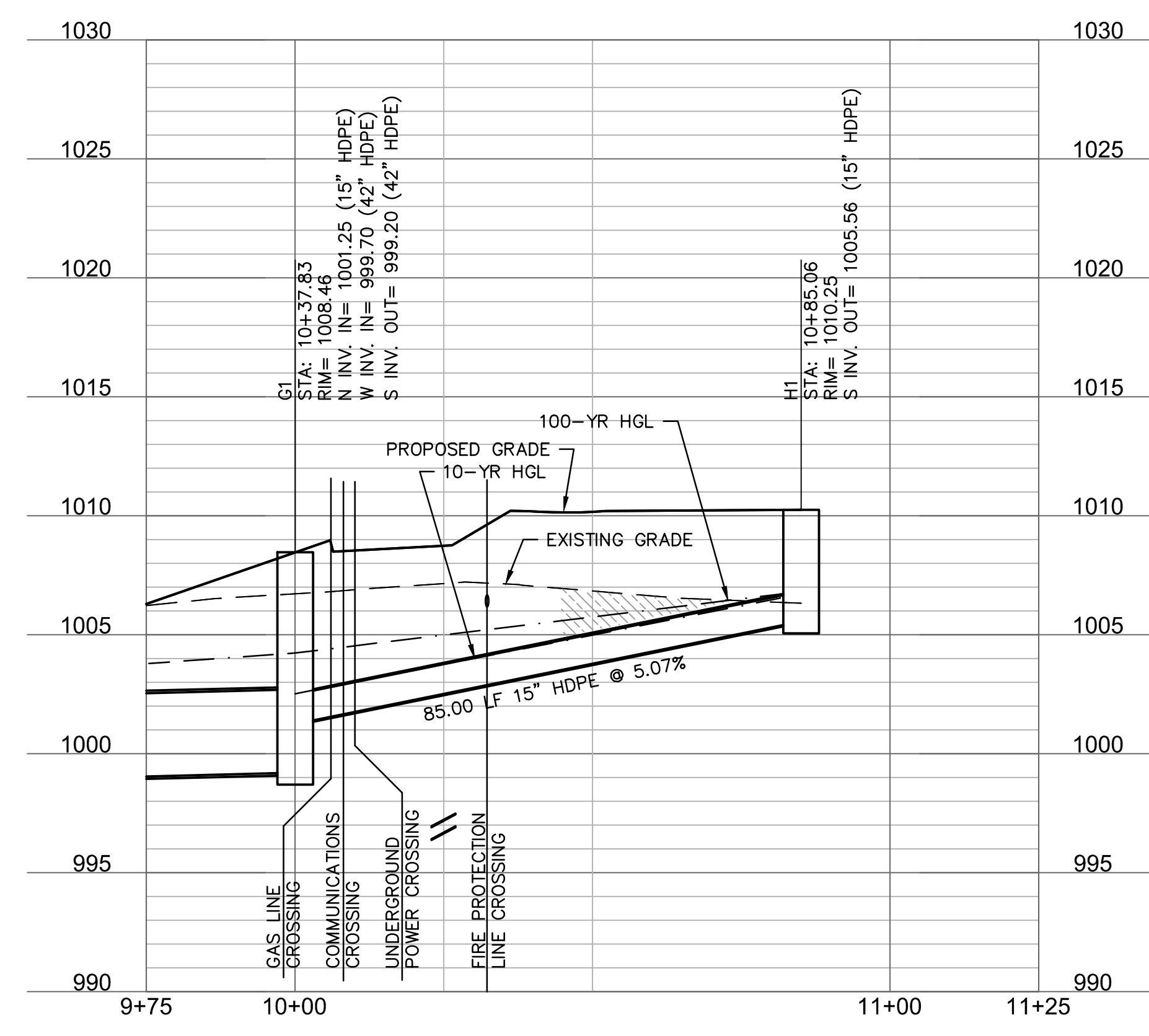


STRUCTURES	
ID	DESCRIPTION
J1	INSTALL 48" DIA. END SECTION WITH CONCRETE TOEWALL AND 14.8 CY RIPRAP 10+00, 0.00' LINE J RIM = 992.25 INV IN = 988.14 (42" HDPE) N: 991241.500; E: 2831885.333
J2	INSTALL CONTROL STRUCTURE PER C1058 11+59.29, 0.00' LINE J RIM = 992.54 INV IN = 989.24 (42" HDPE) INV OUT = 988.94 (42" HDPE) N: 991260.071; E: 2831727.130
J3	INSTALL 24" DIA. END SECTION WITH CONCRETE TOEWALL AND 2.8 CY RIPRAP 11+68.51, 0.00' LINE J RIM = 993.39 INV OUT = 989.29 (42" HDPE) N: 991262.548; E: 2831718.253

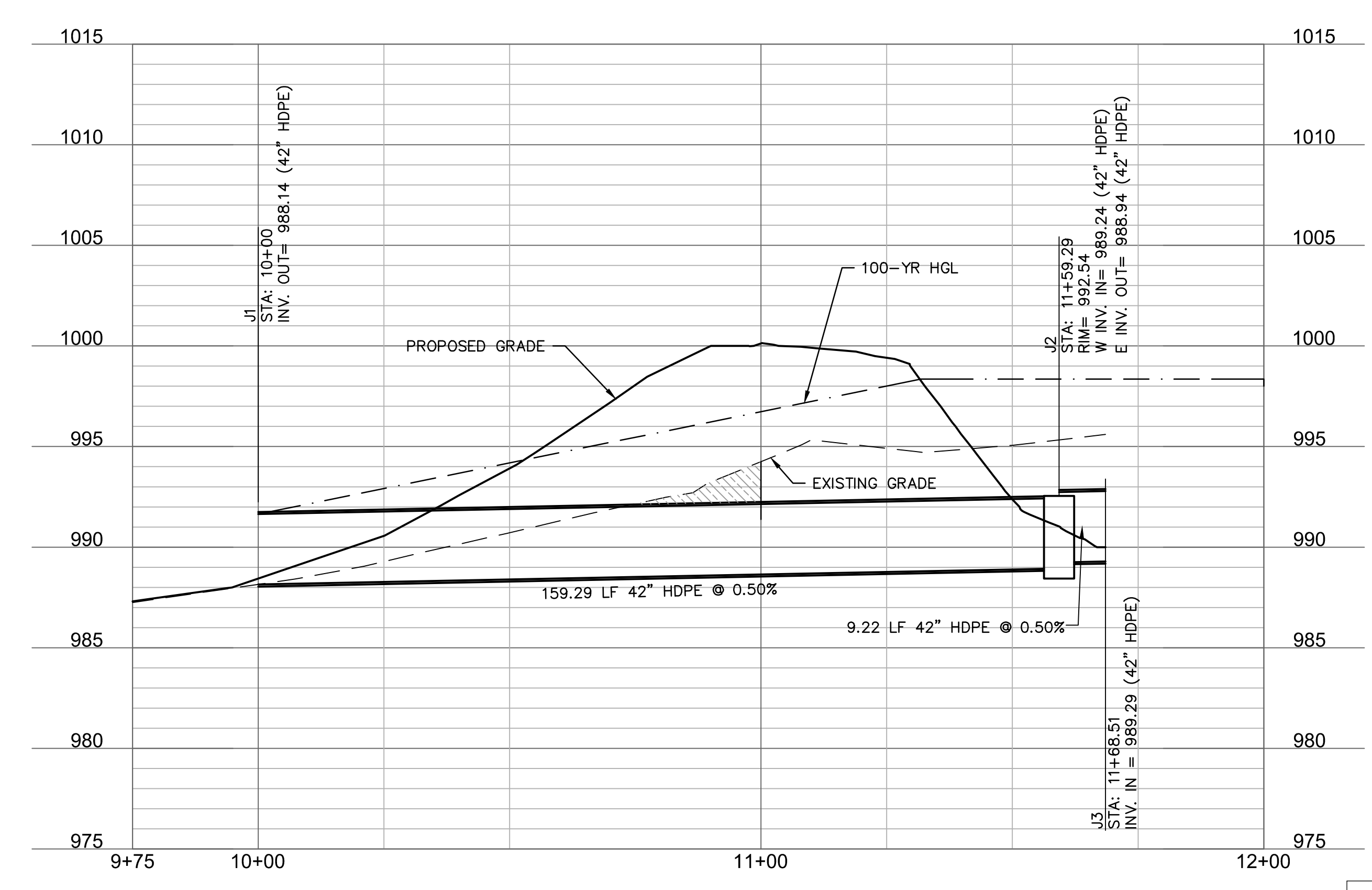
- NOTES:**
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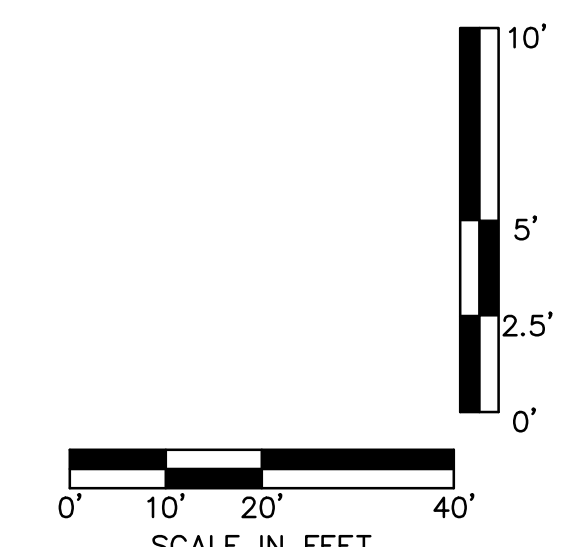
LINE H (9+75 - 11+25)



LINE J (9+75 - 12+00)



RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020



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STATE OF MISSOURI
 TERRY M. PARSONS
 NUMBER
 PE-2018610565
 PROFESSIONAL ENGINEER

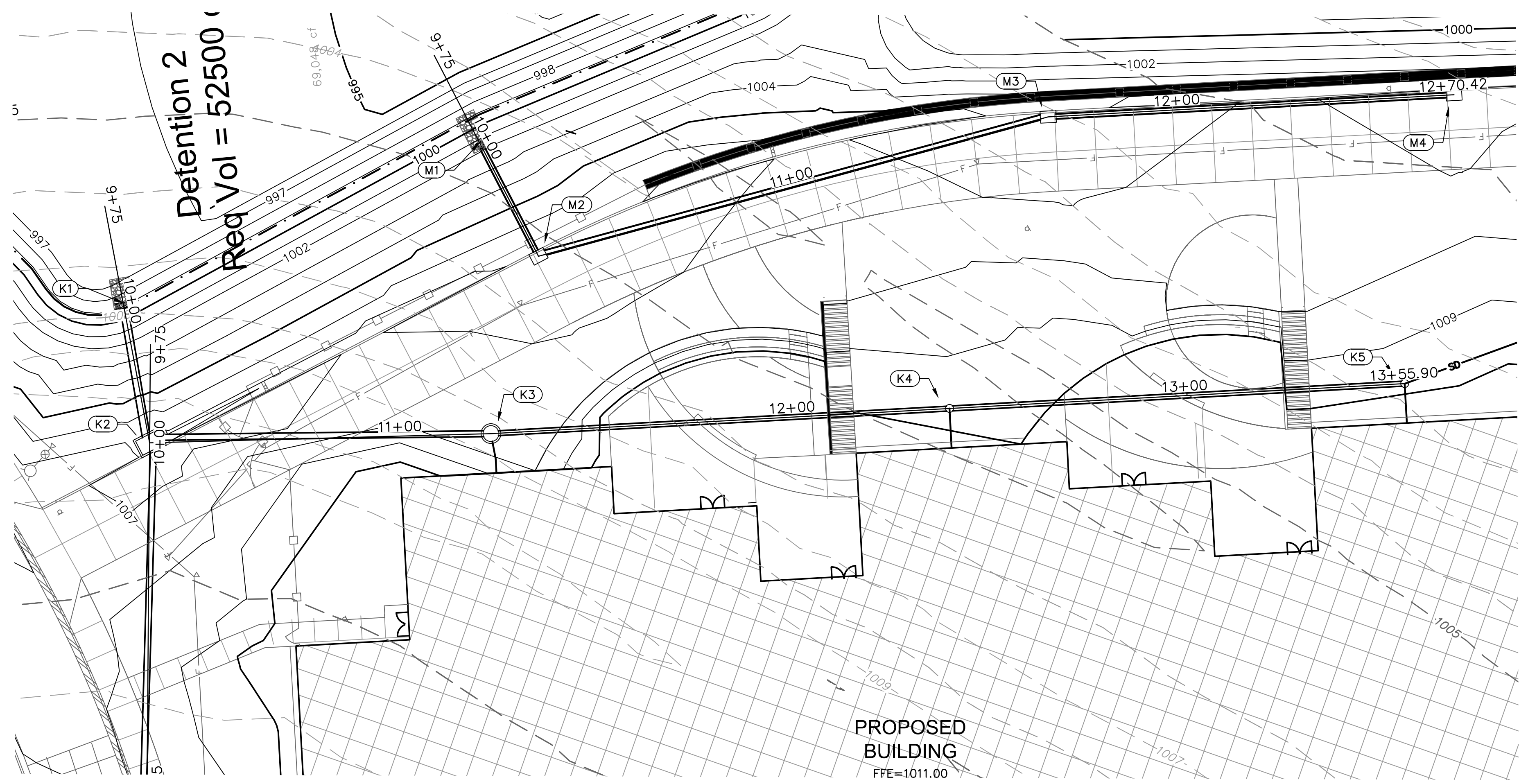
LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 1 REVISED PER CITY COMMENTS 10.01.20
 2 REVISED PER CITY COMMENTS 11.04.20
 3 REVISED PER CITY COMMENTS 11.12.20

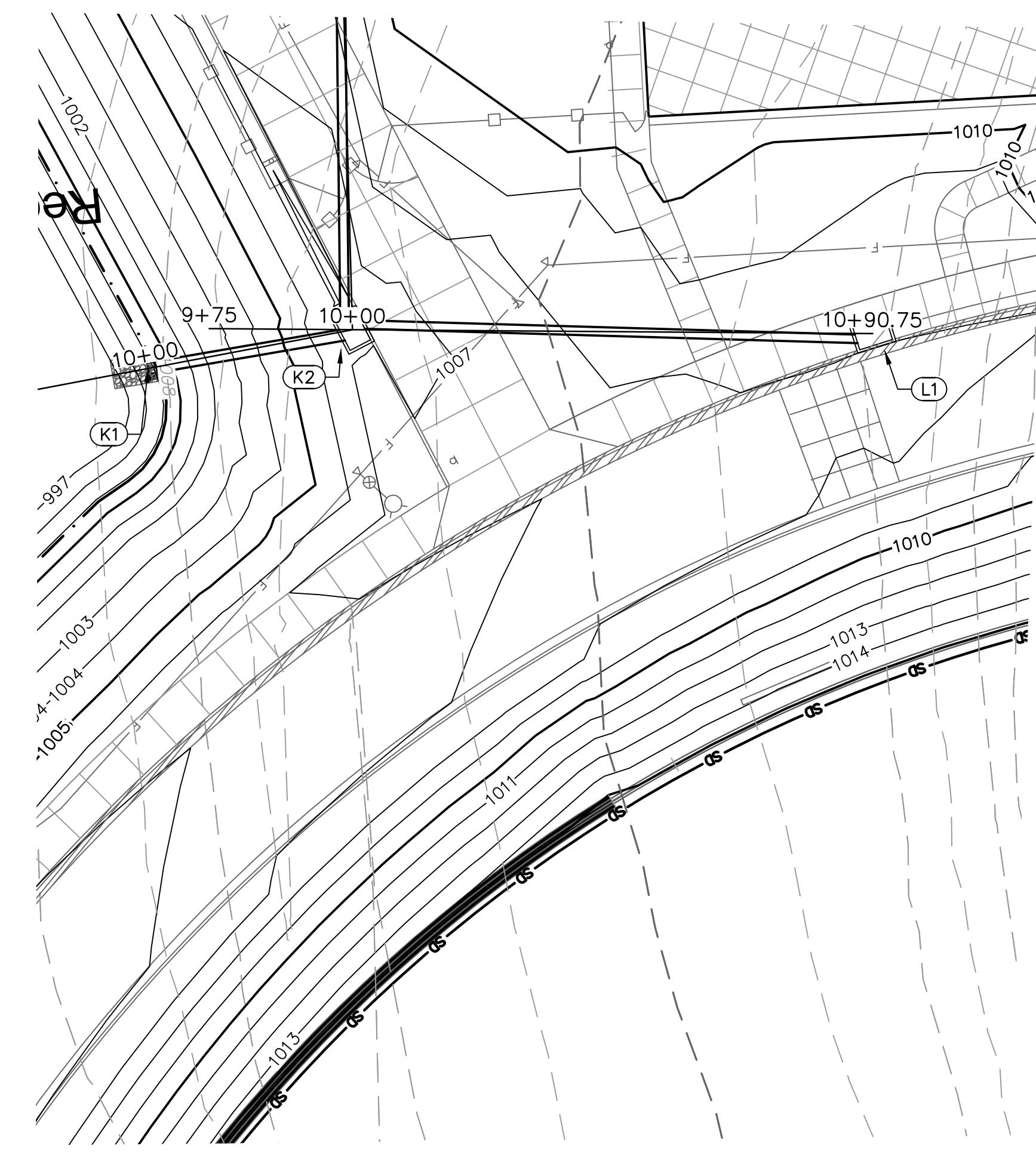
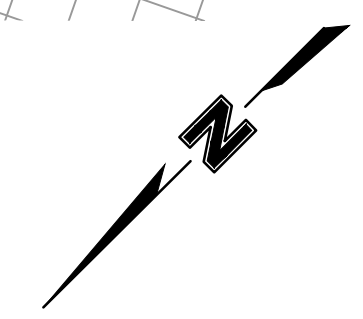
13-20102-00
 STORM SEWER PLAN & PROFILE - LINE H AND J

C1044

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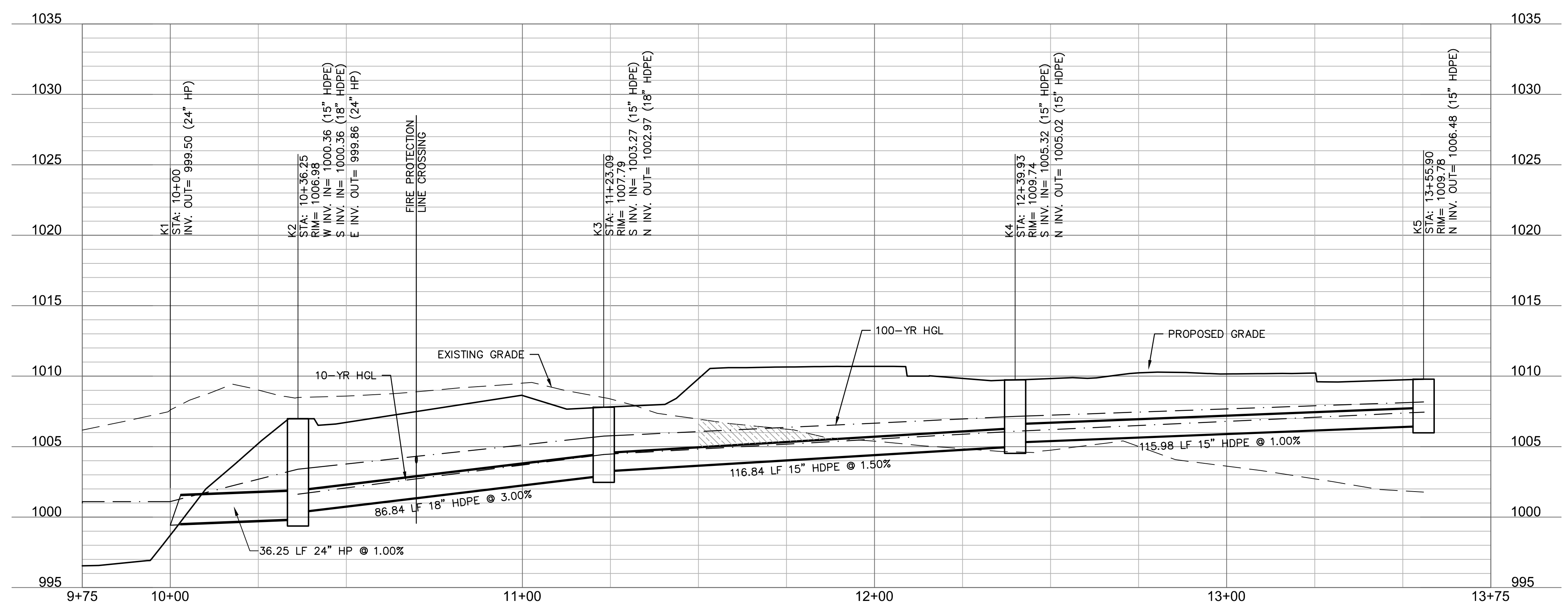


STRUCTURES	
ID	DESCRIPTION
K1	INSTALL 24" DIA. END SECTION WITH TOEWALL AND 2.8 CY RIPRAP 10+00, 0.00' LINE K RIM= 1002.08 INV IN = 999.50 (24" HP) N: 992644.388; E: 2832283.205
K2	INSTALL 6"x4" NON-SETBACK CURB INLET 10+36.25, 0.00' LINE K RIM= 1006.98 INV IN = 1000.36 (15" HDPE) INV OUT = 999.86 (24" HP) N: 992641.229; E: 2832247.098
K3	INSTALL 2' DIA. NYLOPLAST BASIN WITH SOLID LID 11+23.09, 0.00' LINE K RIM= 1007.79 INV IN = 1003.27 (15" HDPE) INV OUT = 1002.97 (18" HDPE) N: 992554.618; E: 2832240.753
K4	5' X 5' - JUNCTION BOX 12+39.93, 0.00' LINE K RIM= 1009.74 INV IN = 1005.32 (15" HDPE) INV OUT = 1005.02 (15" HDPE) N: 992437.898; E: 2832235.453
K5	INSTALL 2' DIA. NYLOPLAST BASIN WITH SOLID LID 13+55.90, 0.00' LINE K RIM= 1009.78 INV OUT = 1006.48 (15" HDPE) N: 992322.041; E: 2832230.192

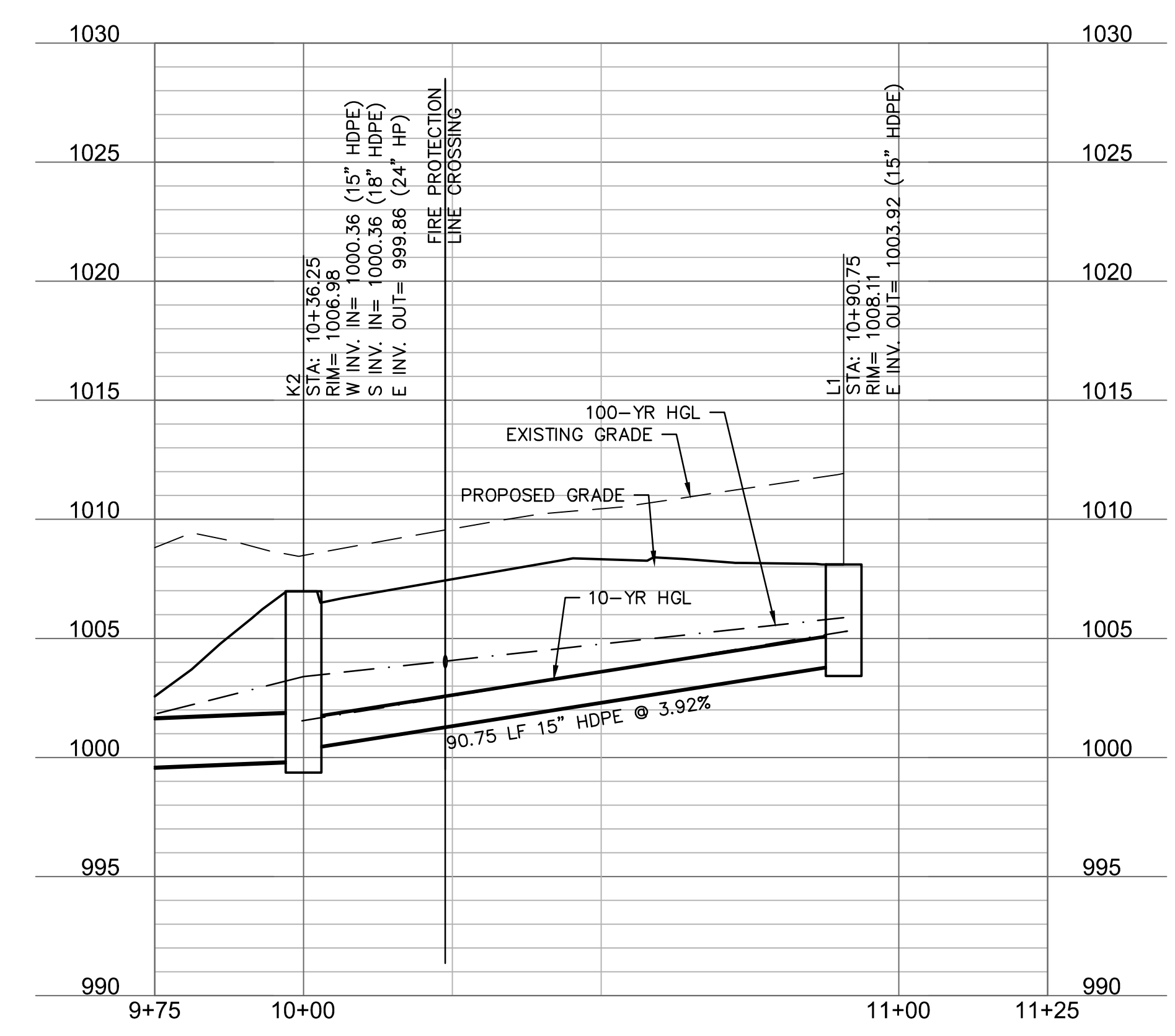


STRUCTURES	
ID	DESCRIPTION
K2	INSTALL 6"x4" NON-SETBACK CURB INLET 10+36.25, 0.00' LINE K RIM= 1006.98 INV IN = 1000.36 (15" HDPE) INV OUT = 999.86 (24" HP) N: 992641.229; E: 2832247.098
L1	INSTALL 6"x4" NON-SETBACK CURB INLET 10+90.75, 0.00' LINE L RIM= 1008.11 INV QUIT = 1003.92 (15" HDPE) N: 992650.972; E: 2832156.877

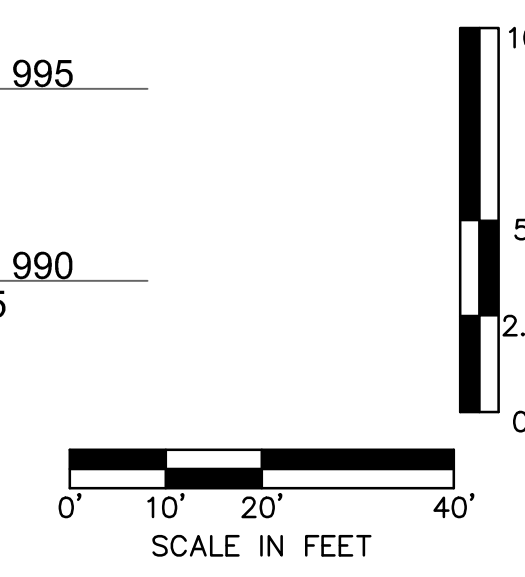
LINE K (9+75 - 13+75)



LINE L (9+75 - 11+25)



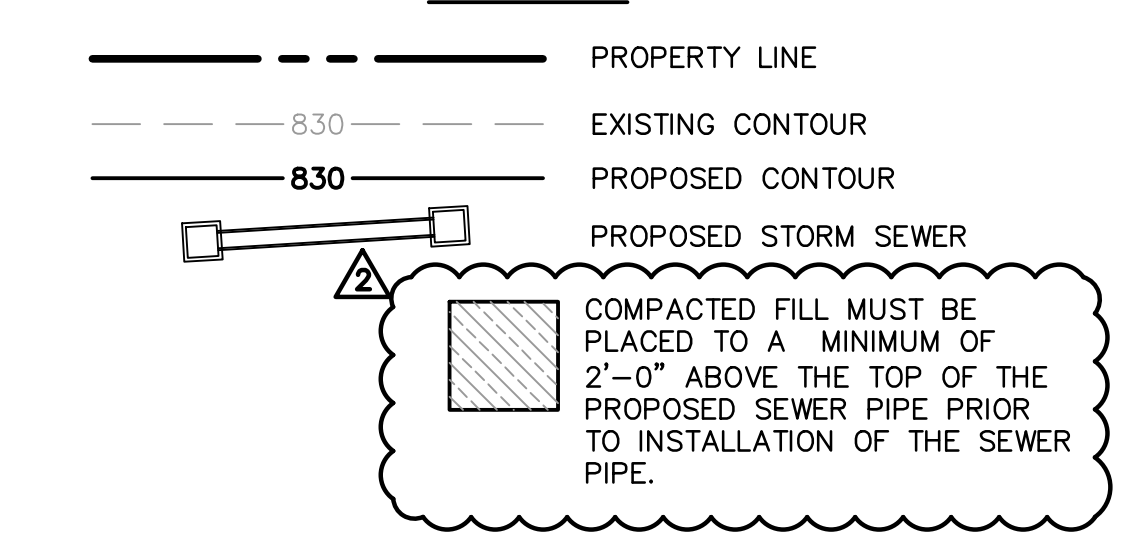
RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020



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



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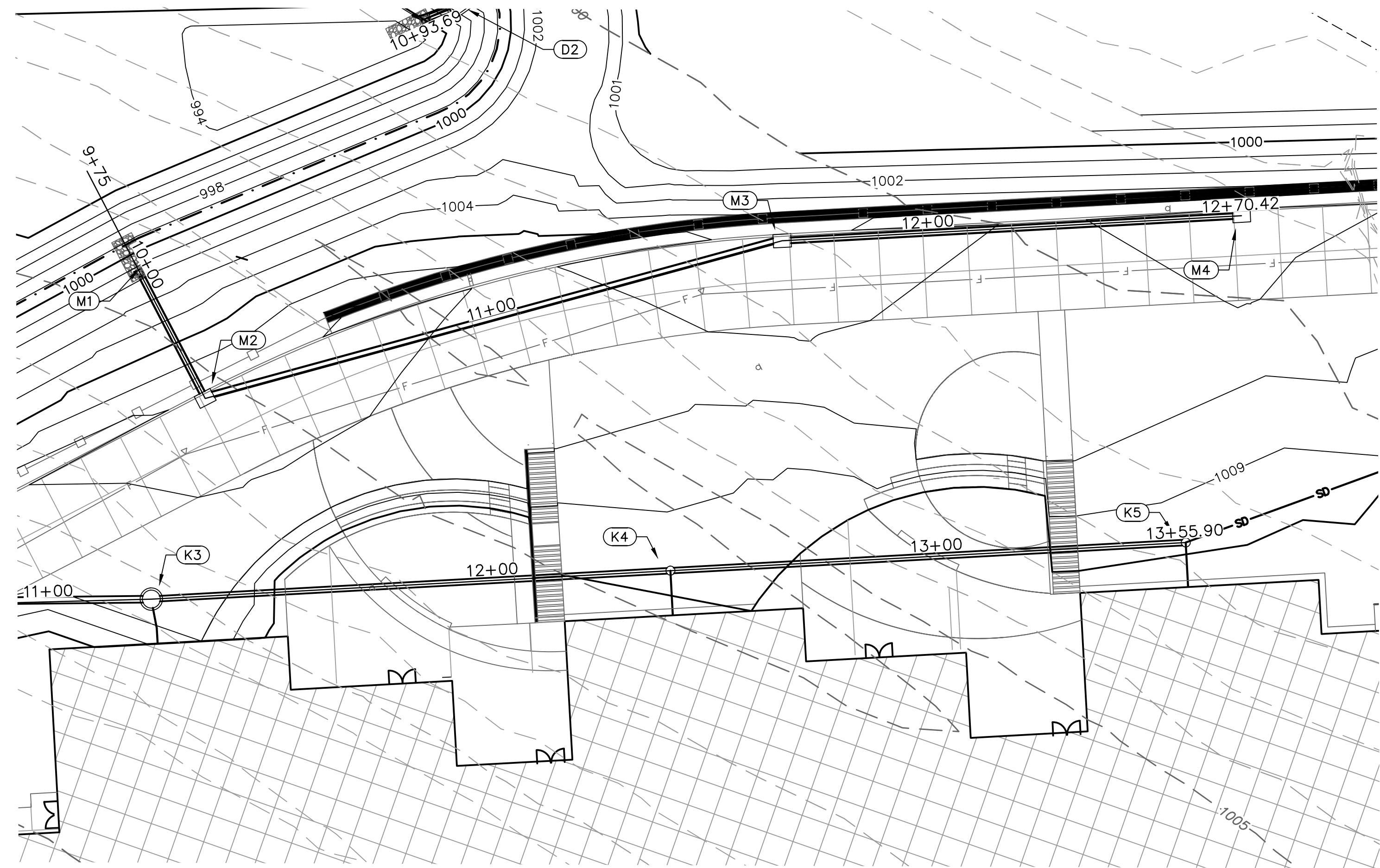
STATE OF MISSOURI
 TERRY M. PARSONS
 NUMBER
 PE-2018010565
 PROFESSIONAL ENGINEER

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

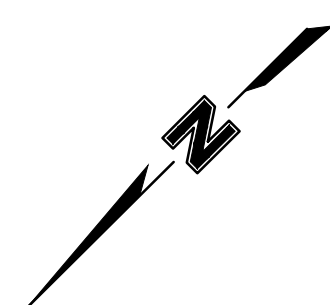
FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 1 REVISED PER CITY COMMENTS 10.01.20
 2 REVISED PER CITY COMMENTS 11.04.20
 3 REVISED PER CITY COMMENTS 11.12.20

13-20102-00
 STORM SEWER PLAN & PROFILE - LINE K AND L

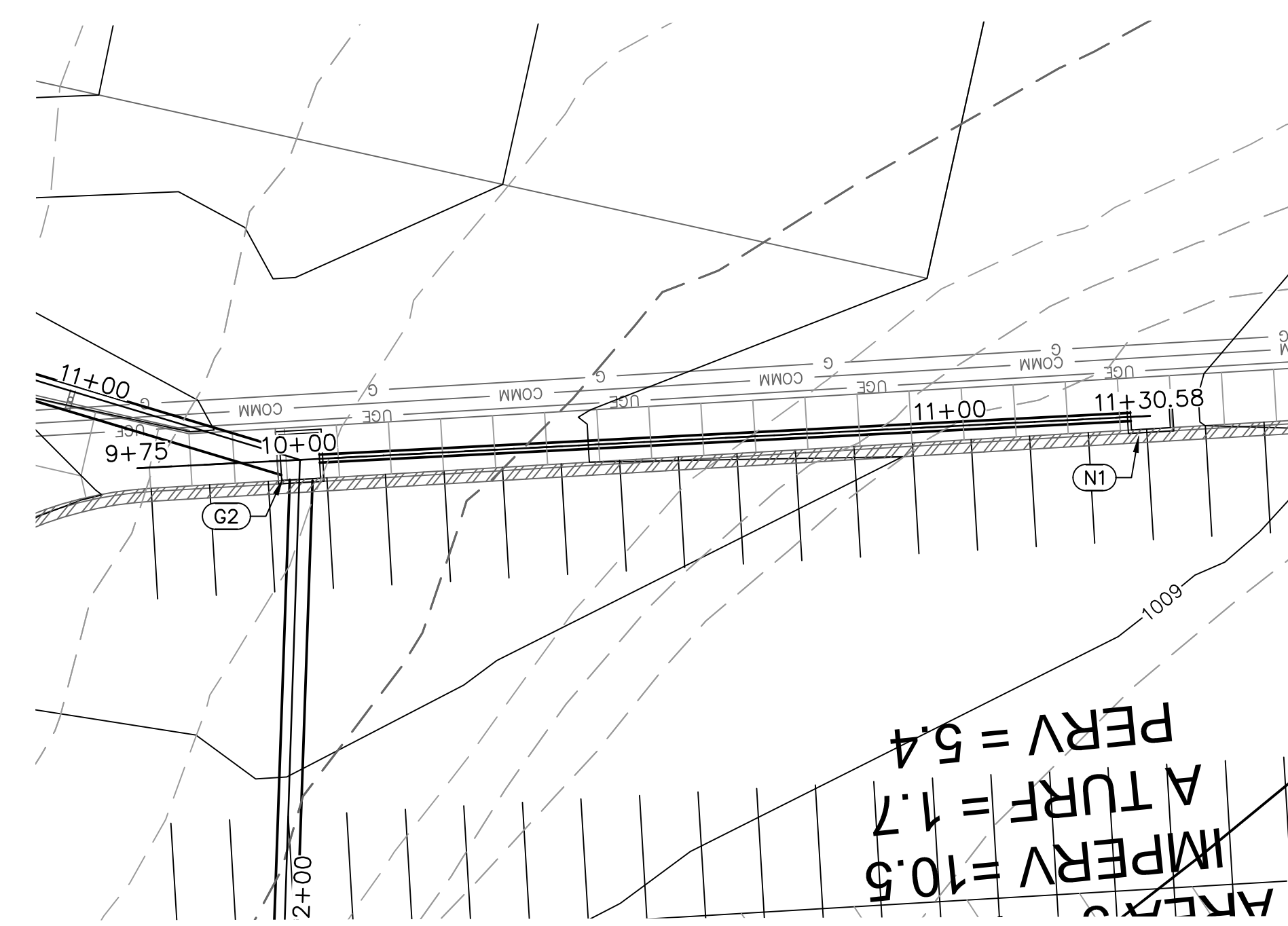
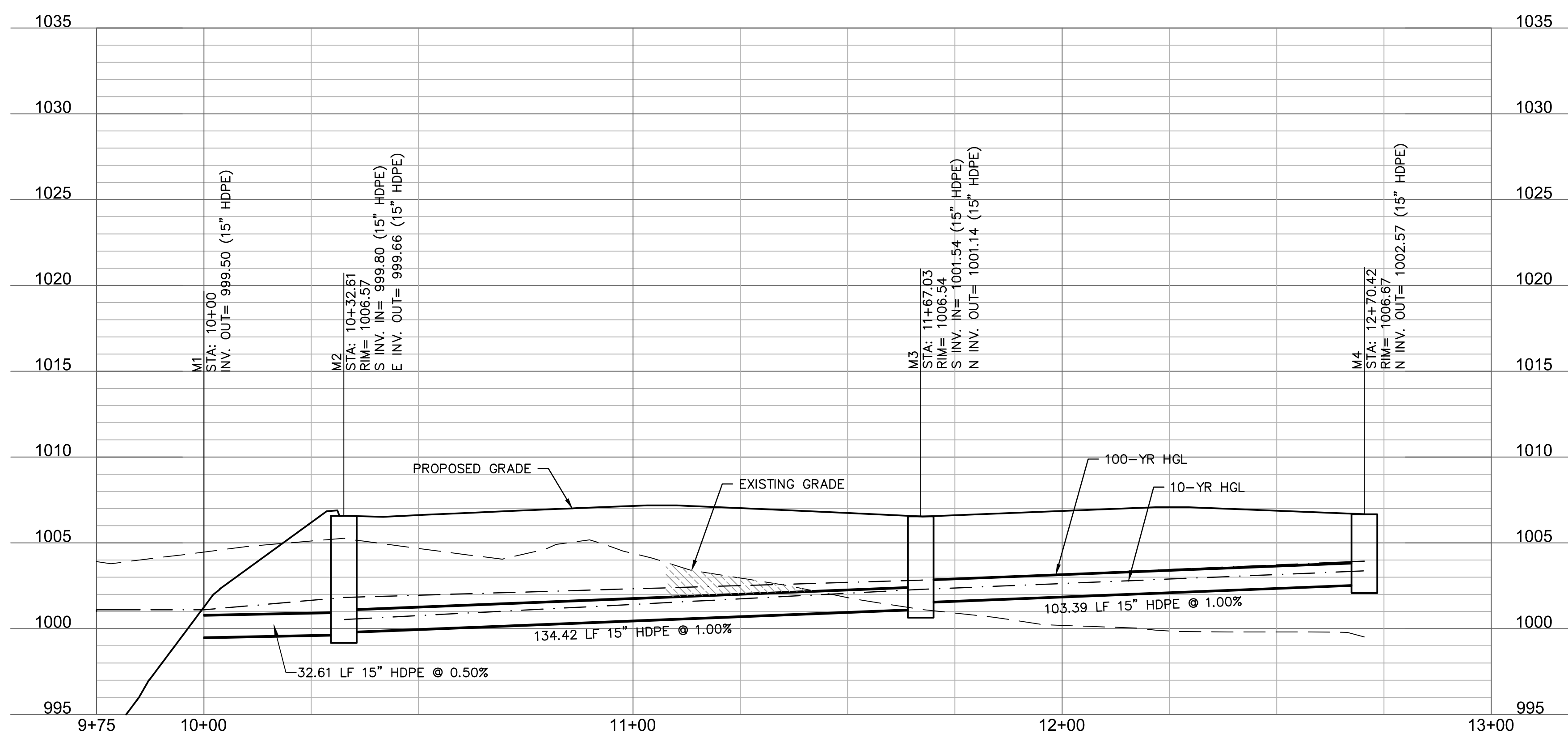
C1045



STRUCTURES	
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

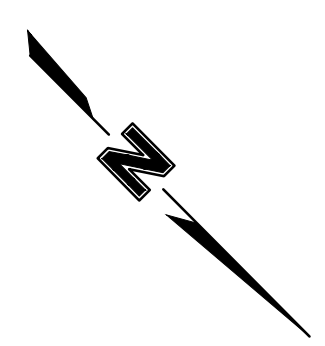


LINE M (9+75 - 13+00)

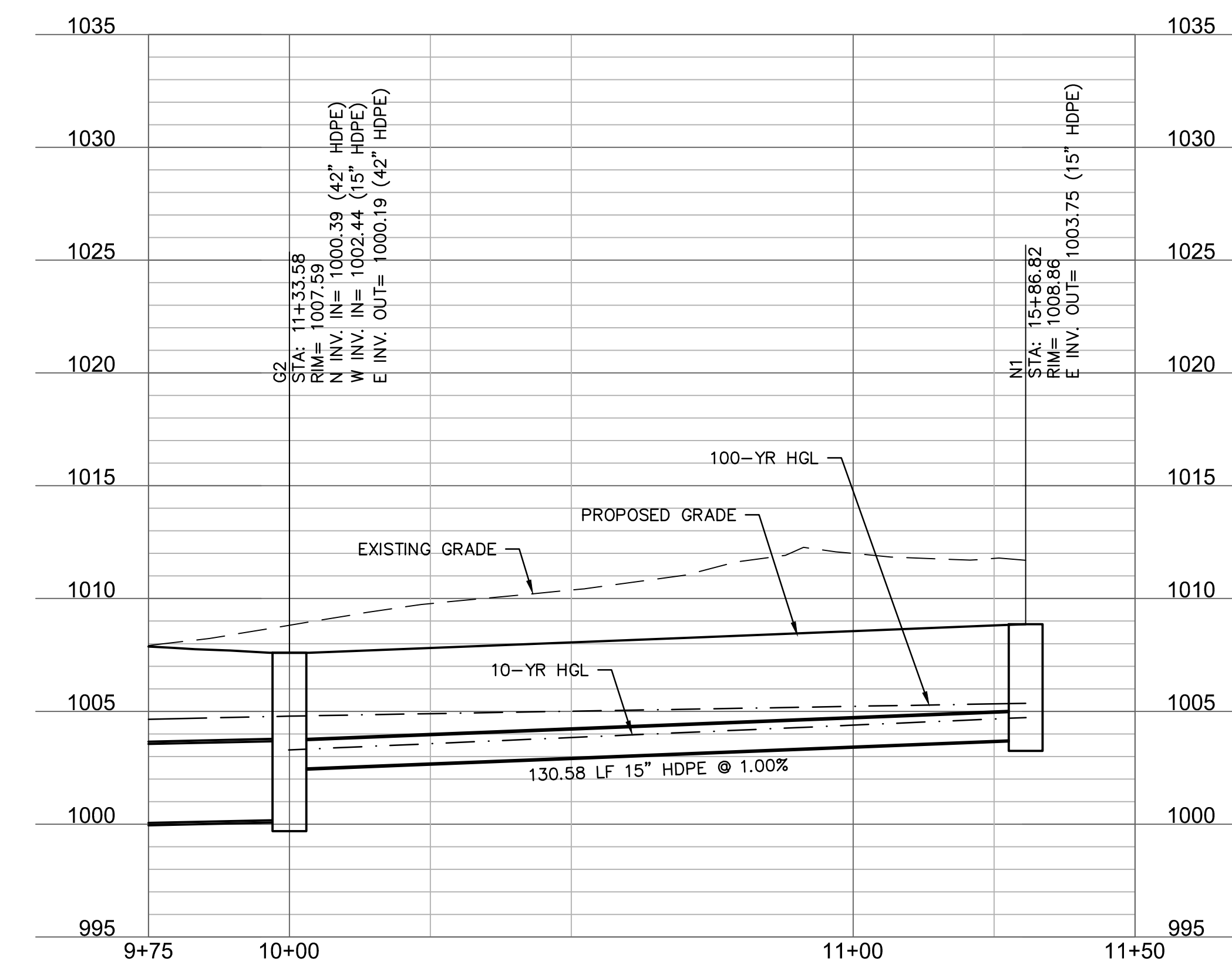


STRUCTURES	
ID	DESCRIPTION
G2	INSTALL 7'X6' NON-SETBACK CURB INLET 11+33.58, 0.00' LINE G RIM = 1007.59 INV IN = 1000.39 (42" HDPE) INV OUT = 1002.44 (15" HDPE) INV OUT = 1000.19 (42" HDPE) N: 992050.220; E: 2831799.815
N1	INSTALL 6'X4' NON-SETBACK CURB INLET 15+86.82, 110.22' RT LINE E RIM = 1008.86 INV OUT = 1003.75 (15" HDPE) N: 992056.549; E: 2831669.386

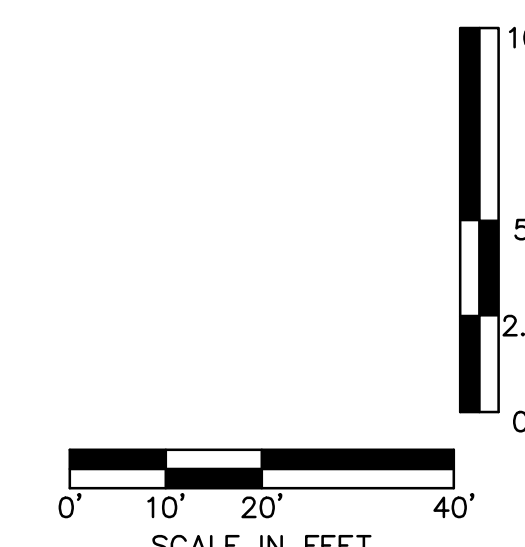
IMPERV = 10.5
ATURF = 1.7
PERV = 5.4



LINE N (9+75 - 11+50)



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020



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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

FINAL DEVELOPMENT PLAN
08/28/20
REVISIONS
1 REVIS PER CITY COMMENTS 10.01.20
2 REVIS PER CITY COMMENTS 11.04.20
3 REVIS PER CITY COMMENTS 11.12.20

13-20102-00

STORM SEWER PLAN & PROFILE - LINE M AND N

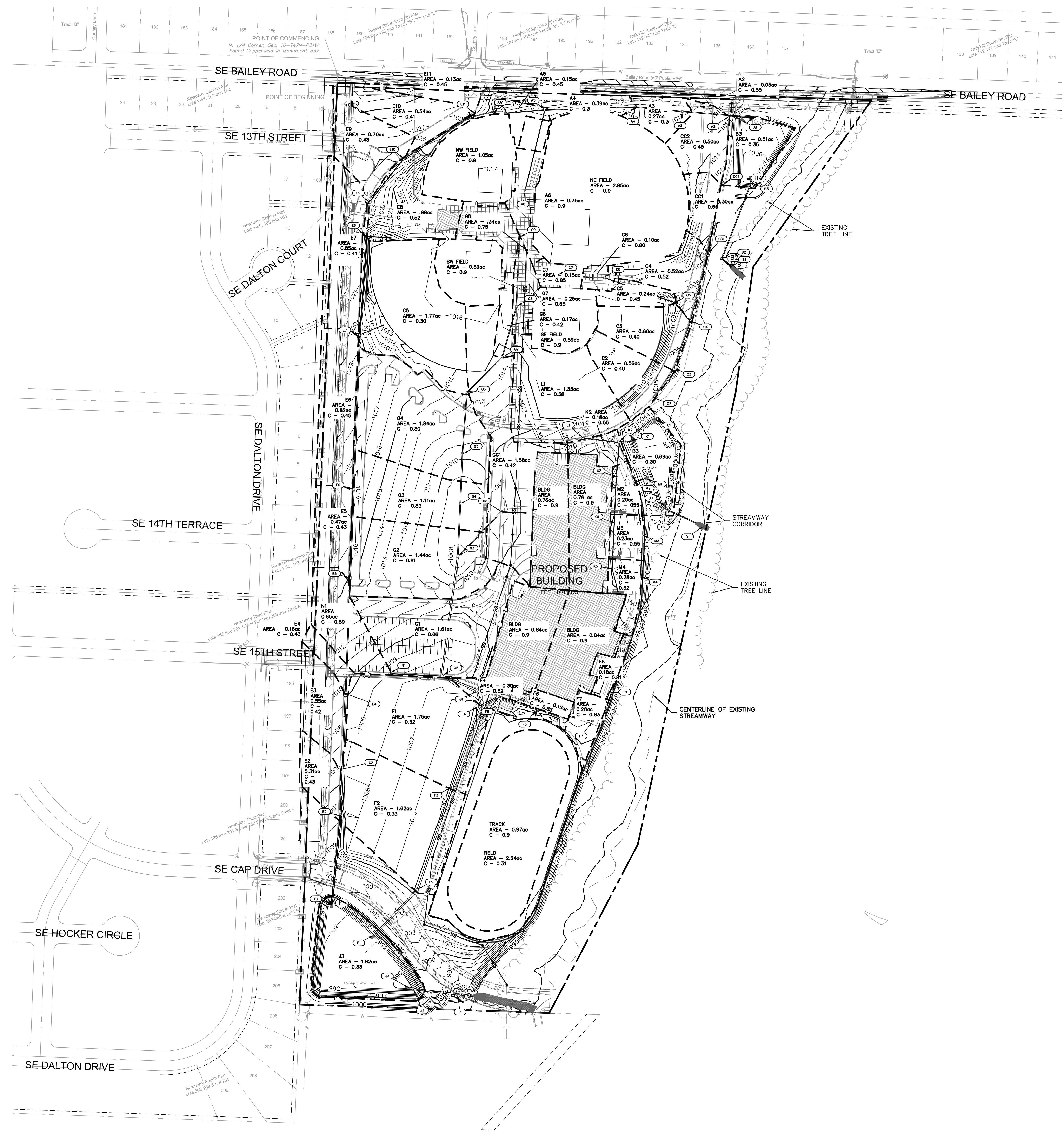
C1046

olsson
OLSSON, CIVIL ENGINEERING
MO. CERTIFICATE OF AUTHORITY #001592
7301 West 133rd Street, Suite 200
Overland Park, KS 66214-7750
TEL: 913.381.1170 www.olsosm.com

DLR Group
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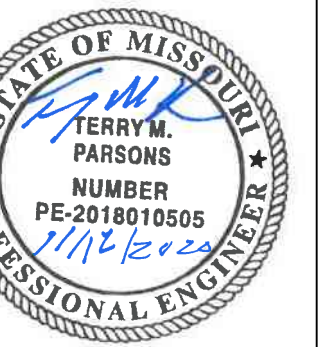
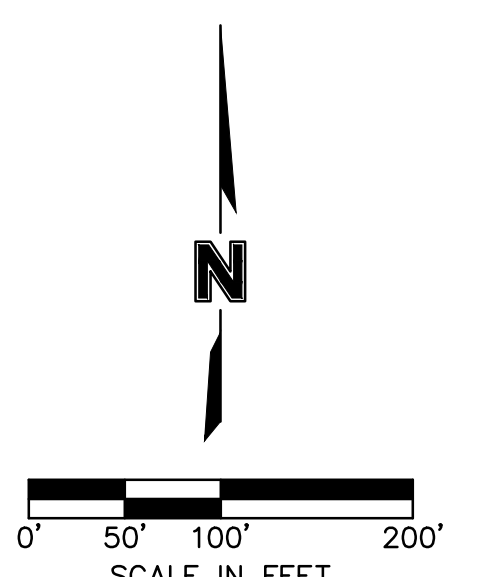
TERRY M. PARSONS
REGISTERED PROFESSIONAL ENGINEER
NUMBER
PE-2018618565
1/1/2008

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NOTE: UNLESS NOTED ON THE STORM SEWER PLAN AND PROFILE, RIPRAP SIZING FOR THE INLET AND OUTLET IN THE DETENTION BASINS SHALL MATCH THE RIPRAP TABLE PROVIDED ON C1050.

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020



Olsson
 OLSSON, CIVIL ENGINEERING
 MISSOURI CERTIFICATE OF AUTHORITY #001982
 7301 West 133rd Street, Suite 200
 Overland Park, KS 66223-7750
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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

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 1 REVISED PER CITY COMMENTS 10.01.20
 2 REVISED PER CITY COMMENTS 11.04.20
 3 REVISED PER CITY COMMENTS 11.12.20

13-20102-00
 DRAINAGE PLAN

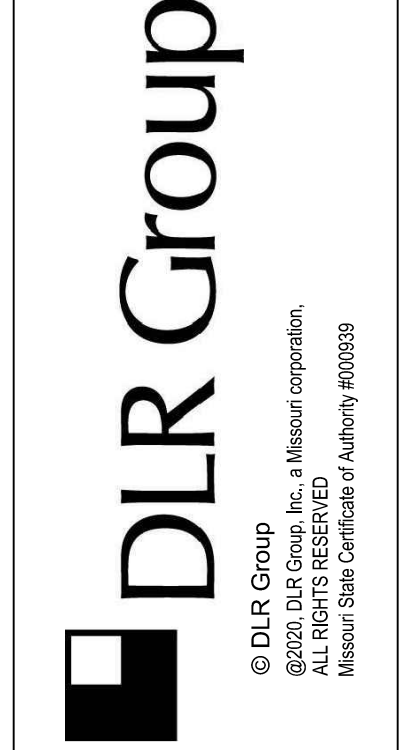
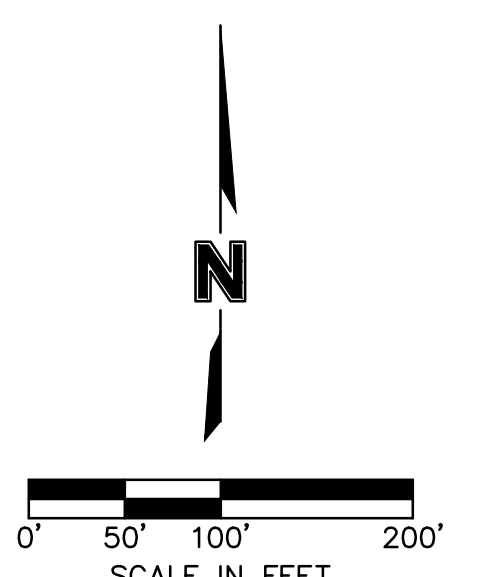
C1047

STORM SEWER PIPE AND STRUCTURE TABLE

Table with columns for STRUCTURES (FROM, TO, DIRECT AREA, TOTAL AREA, C, KC, Tc, FLOW TIME, INTENSITY, DESIGN Q, DESCRIPTION, PIPE LENGTH, PIPE SLOPE, PIPE DIA, Q FULL, PIPE AREA, V FULL, DESIGN V, HWID, MH TOP ELEVATION, UPSTREAM FLOWLINE, DOWNSTREAM FLOWLINE, DOWNSTREAM WATER ELEVATION, FRICTION HEAD, ENTRY LOSS COEFFICIENT, ACTUAL ENTRY LOSS, ENTRY LOSS, h f + h m, HW INLET CONTROL, HW OUTLET CONTROL, PIPE CROWN, PIPE CROWN - HGL, HYDRAULIC GRADE ELEV., HYDRAULIC GRADE (MAX), Comments)

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020



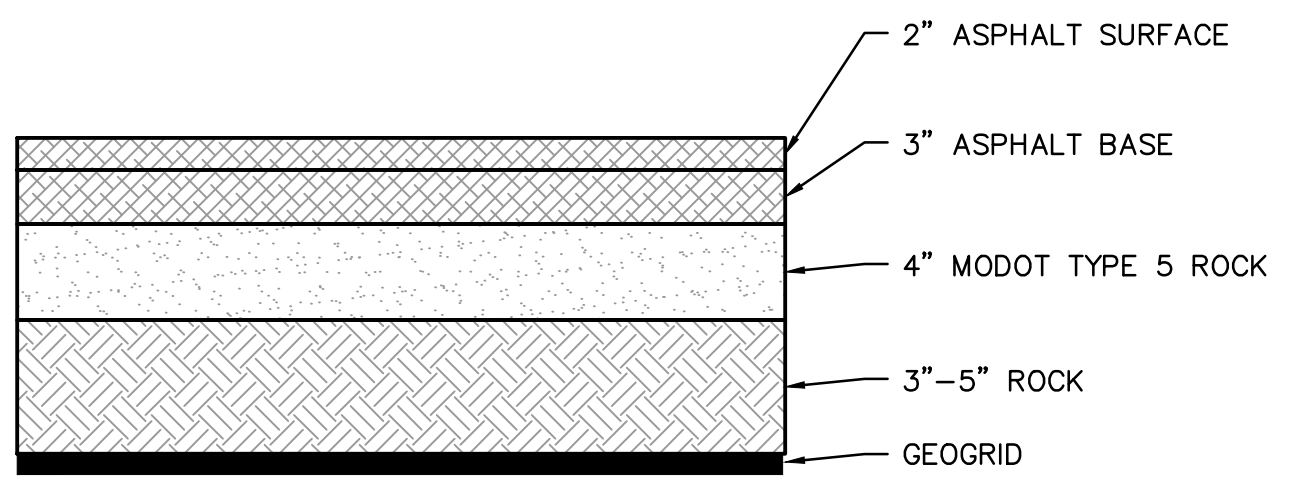
olsson
OLSSON, CIVIL ENGINEERING
MO. CERTIFICATE OF AUTHORITY #011992
7301 West 133rd Street, Suite 200
Owensboro, KY 40301
TEL: 813.381.1770
www.olsson.com

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

FINAL DEVELOPMENT PLAN
08/28/20
REVISIONS
REVISOR PER CITY COMMENTS 10.01.20
REVISOR PER CITY COMMENTS 11.04.20

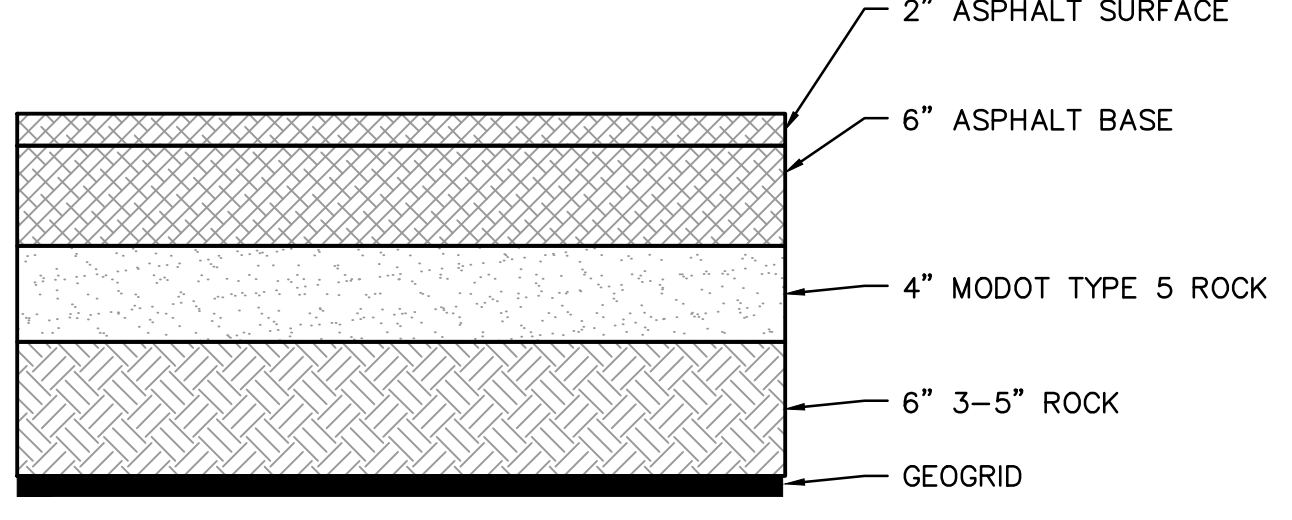
13-20102-00
DRAINAGE CALCULATIONS - 10 YEAR

C1049



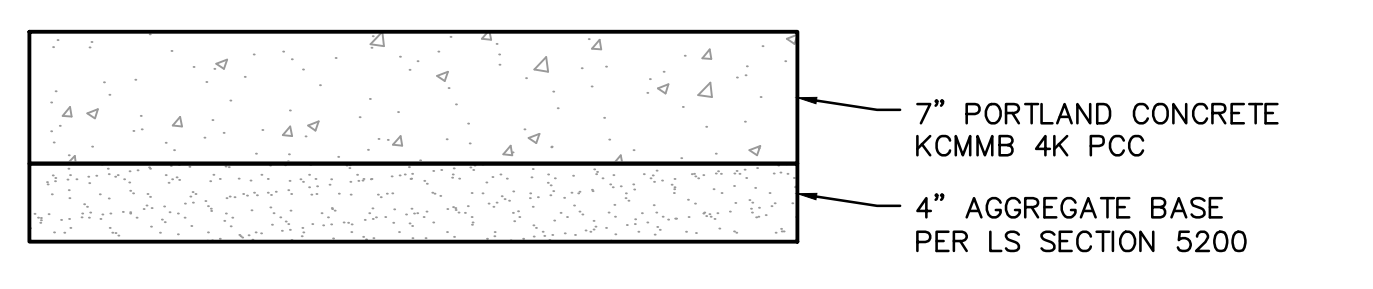
REFER TO THE GEOTECHNICAL REPORT PROVIDED BY CFS ENGINEERS, PROJECT NO. 20-1074 AND DATED JUNE 8, 2020 AND ALL ADDENDUMS FOR ADDITIONAL REQUIREMENTS.

LIGHT DUTY ASPHALT PAVEMENT SECTION
NOT TO SCALE



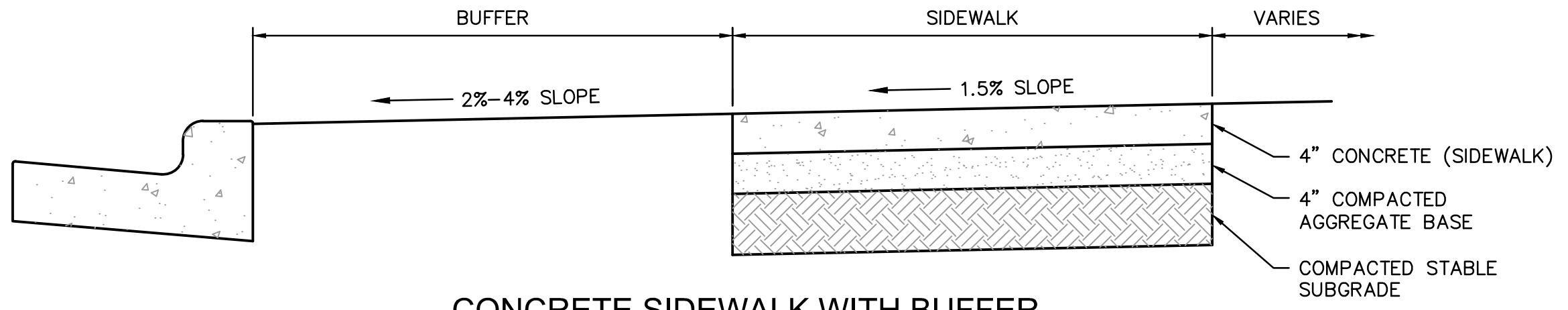
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HEAVY DUTY ASPHALT PAVEMENT SECTION
NOT TO SCALE



REFER TO THE GEOTECHNICAL REPORT PROVIDED BY CFS ENGINEERS, PROJECT NO. 20-1074 AND DATED JUNE 8, 2020 AND ALL ADDENDUMS FOR ADDITIONAL REQUIREMENTS.

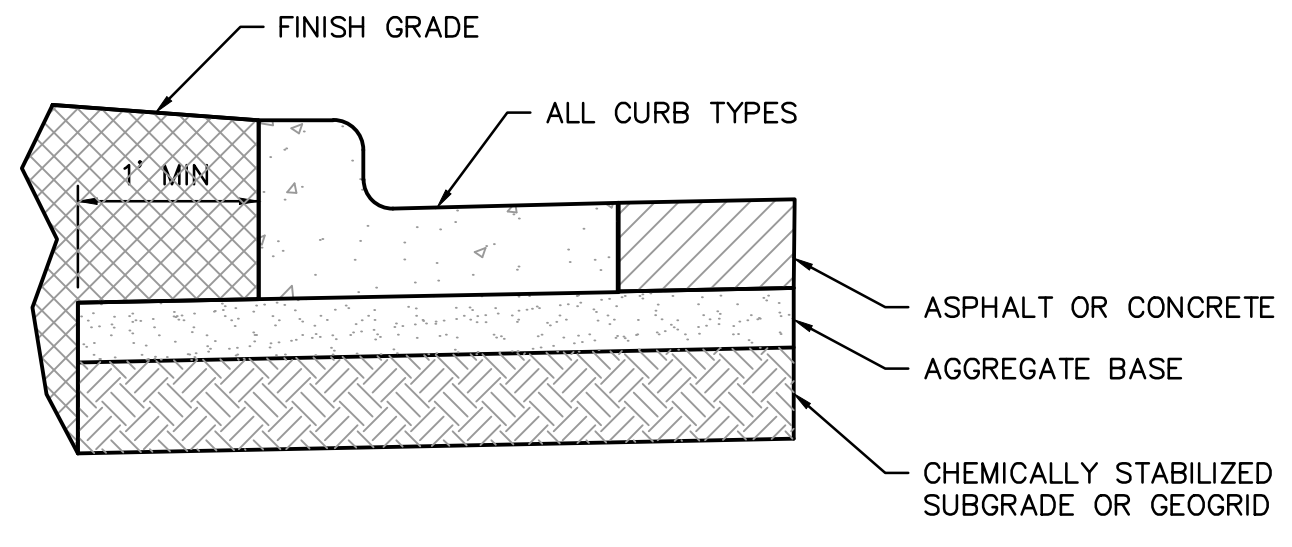
HEAVY DUTY CONCRETE PAVEMENT SECTION
NOT TO SCALE



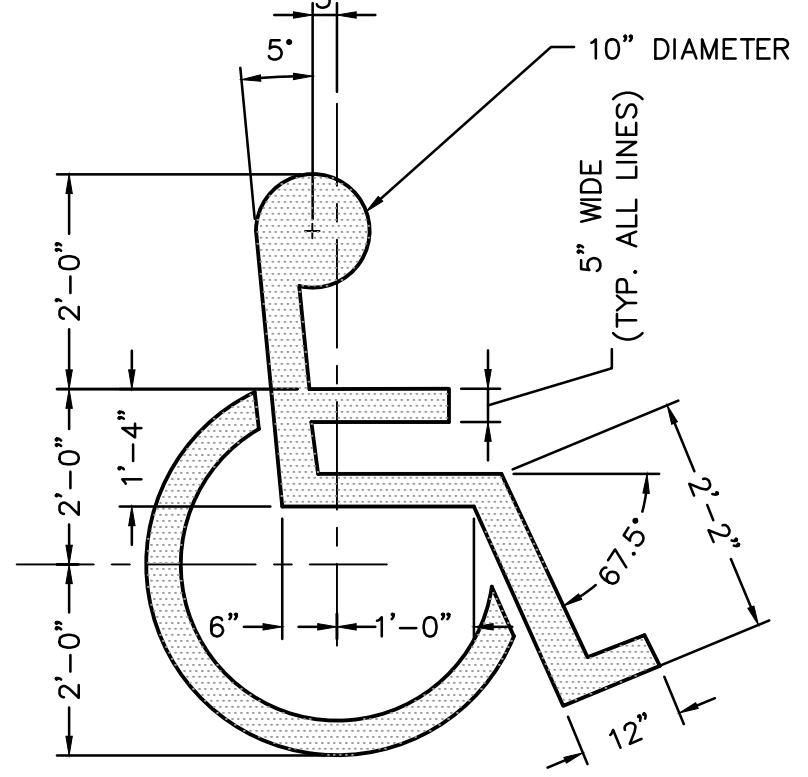
CONCRETE SIDEWALK WITH BUFFER
NOT TO SCALE

GENERAL NOTES:

- SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4\"/>
- 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
- KCMBB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS OR AS APPROVED BY THE CITY INSPECTOR.
- ALL SIDEWALKS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG). AN EXPANSION JOINT SHALL BE PLACED AT A MAXIMUM OF 150 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK, BUT NO GREATER THAN 10 FT.
- SIDEWALK FINISHING (NO PICTURE FRAMING) AS DIRECTED BY CITY INSPECTOR.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.



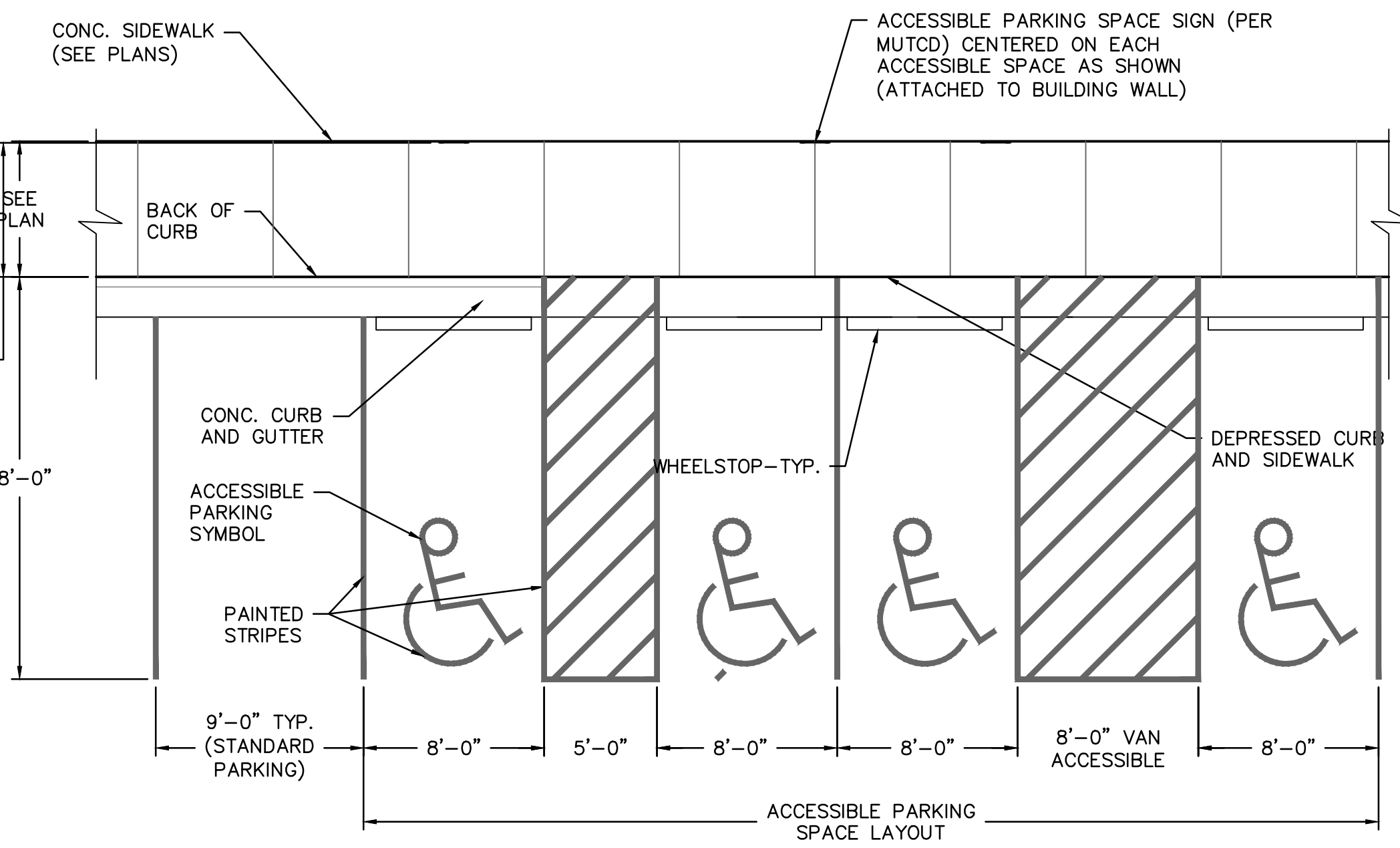
TYPICAL SUBGRADE PLACEMENT UNDER CURB
NOT TO SCALE



PROVIDE PAINTED SYMBOL AT EACH DESIGNATED ACCESSIBLE PARKING STALL. CENTER SYMBOL IN EACH STALL.

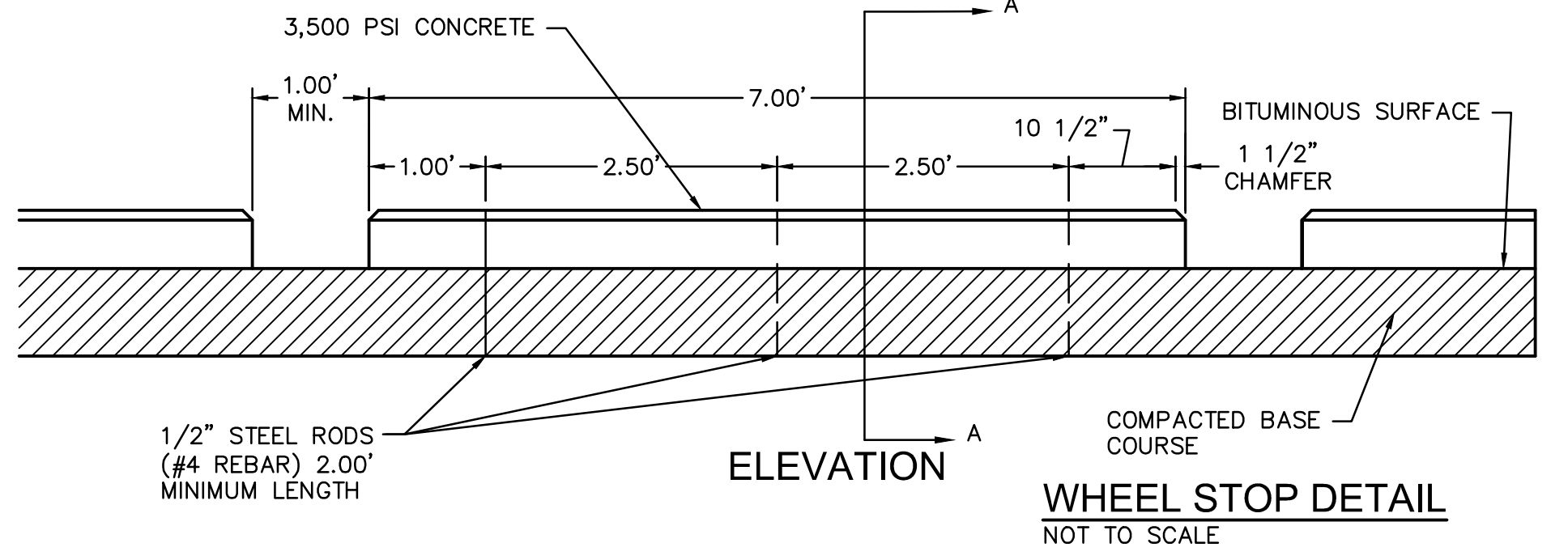
ACCESSIBLE PARKING SYMBOL
NOT TO SCALE

NOTE: ACCESSIBLE PARKING SYMBOL AND SIGNAGE SHALL COMPLY WITH THE APPLICABLE RECOMMENDATIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).



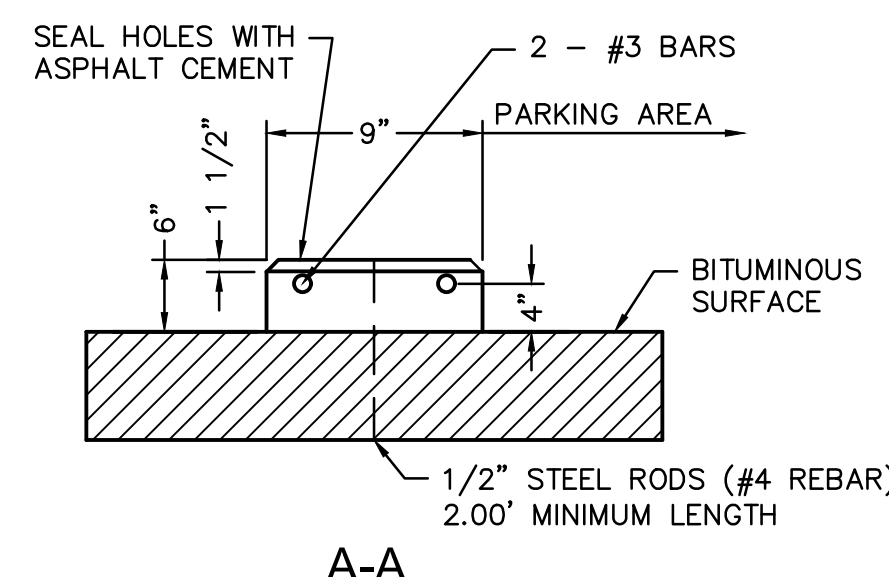
TYPICAL ADA PARKING SPACE LAYOUT DETAIL
NOT TO SCALE

NOTE: ANCHOR RODS TO BE SLEEVED OF GREASED THRU CONCRETE CURBS TO PERMIT RELOCATION OF CURBS.

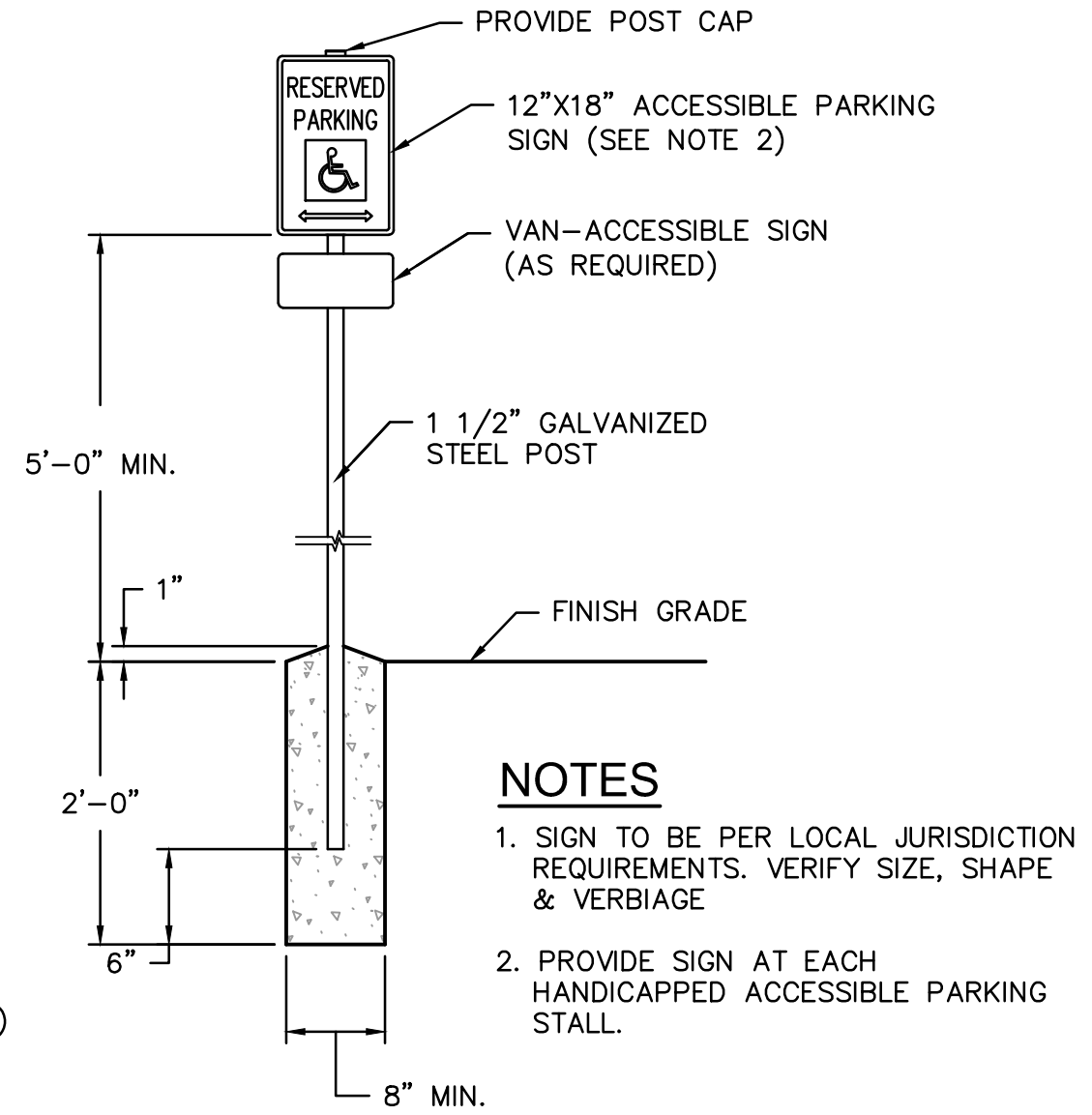


ELEVATION

WHEEL STOP DETAIL
NOT TO SCALE



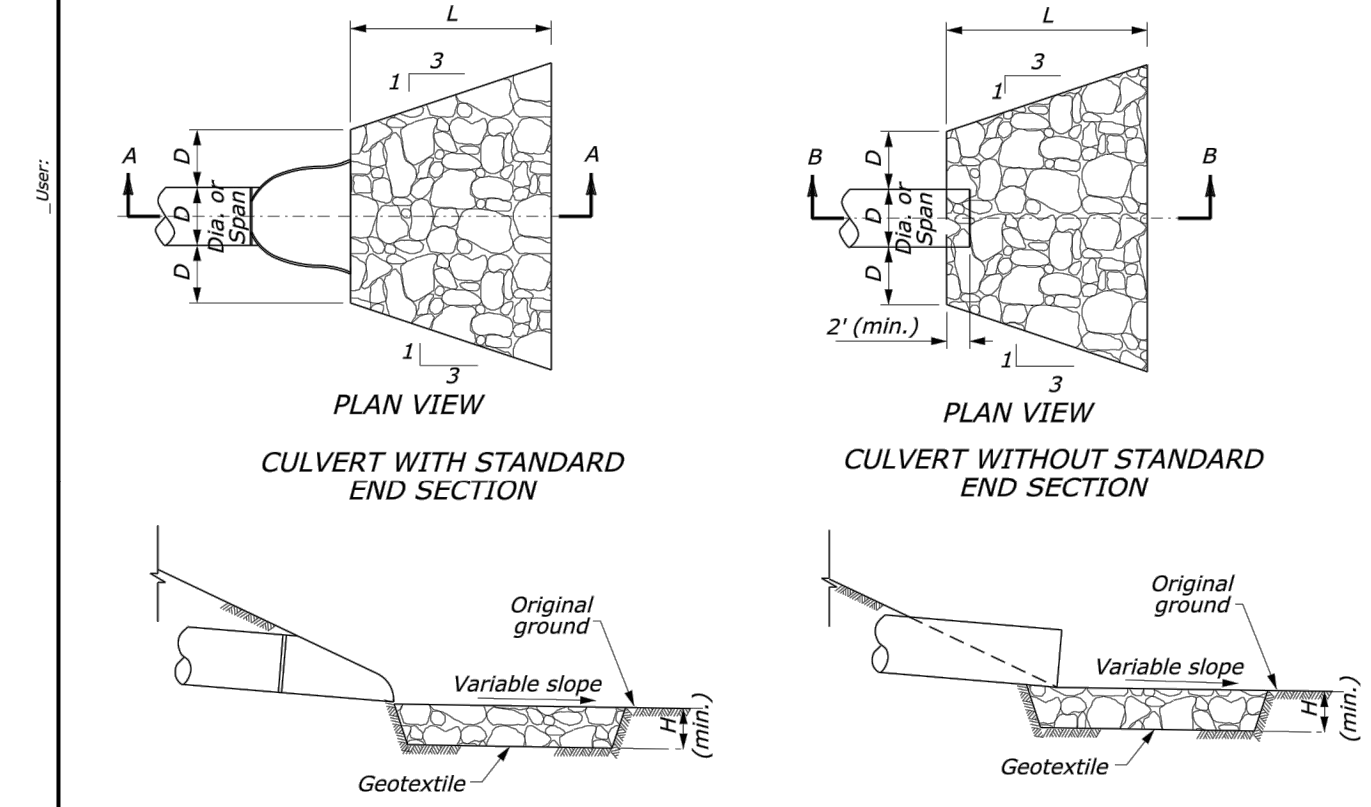
A-A



NOTES

- SIGN TO BE PER LOCAL JURISDICTION REQUIREMENTS. VERIFY SIZE, SHAPE & VERBIAGE.
- PROVIDE SIGN AT EACH HANDICAPPED ACCESSIBLE PARKING STALL.

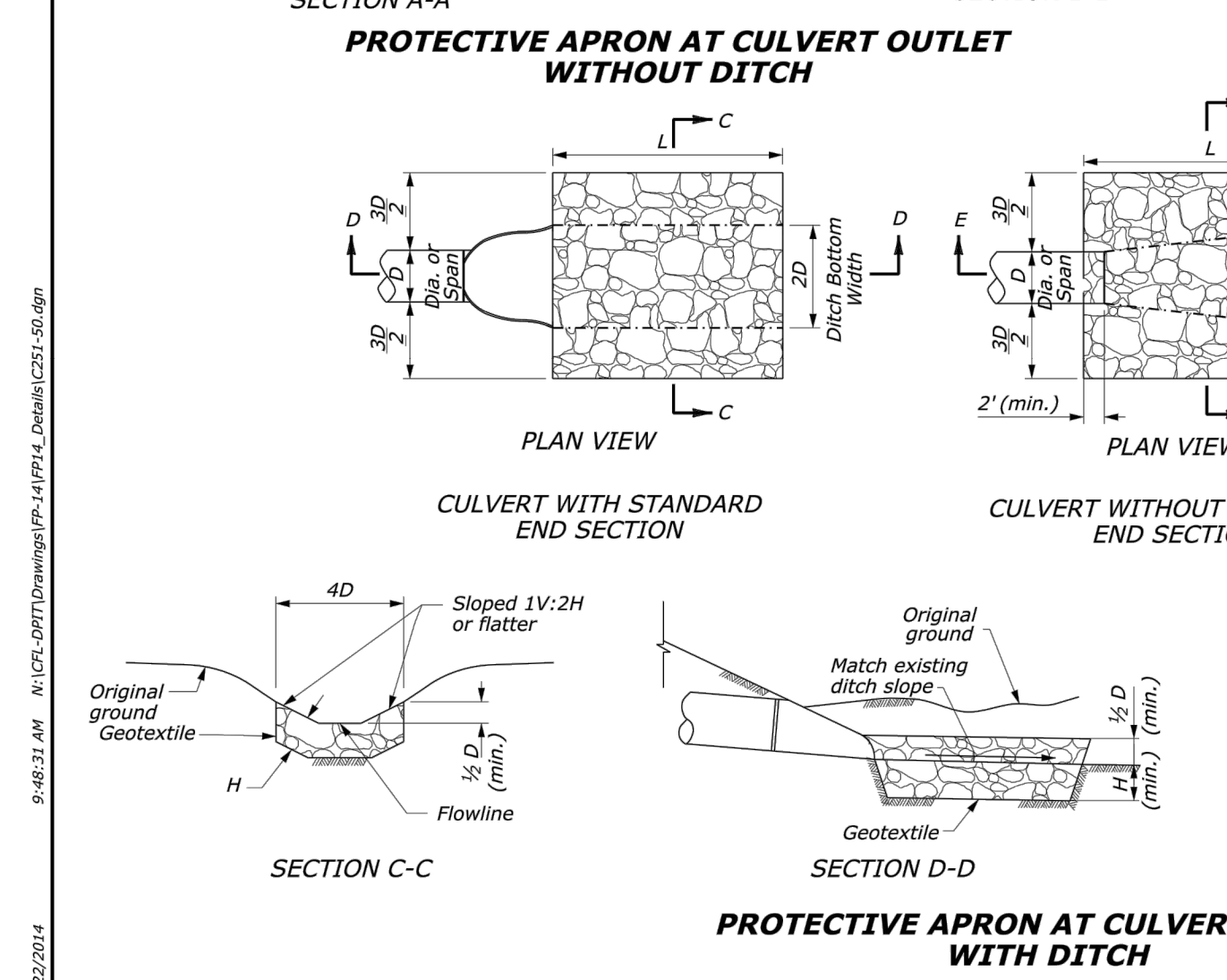
ACCESSIBLE PARKING SPACE SIGNAGE
NOT TO SCALE



CULVERT SIZE D (Inches)	RIPRAP CLASS	LENGTH OF APRON L (feet)	DEPTH OF APRON H (feet)	ESTIMATED RIPRAP QUANTITY (CY)	ESTIMATED GEOTEXTILE QUANTITY (SY)
12	2	1.5	1.5	1	5
18	2	6	1.5	2.2	9
24	2	8	1.5	3.9	14
30	3	12.5	2	10.9	28
36	3	16	2	15.6	37
42	4	21	2.5	24.1	63
48	4	24	2.5	44.5	79
12	2	6	1.5	1.7	8
18	2	9	1.5	3.2	12
24	2	10	1.5	5.2	17
30	3	14.5	2	13.3	33
36	3	17	2	18.5	43
42	4	23	2.5	38.7	70
48	4	26	2.5	49.8	87

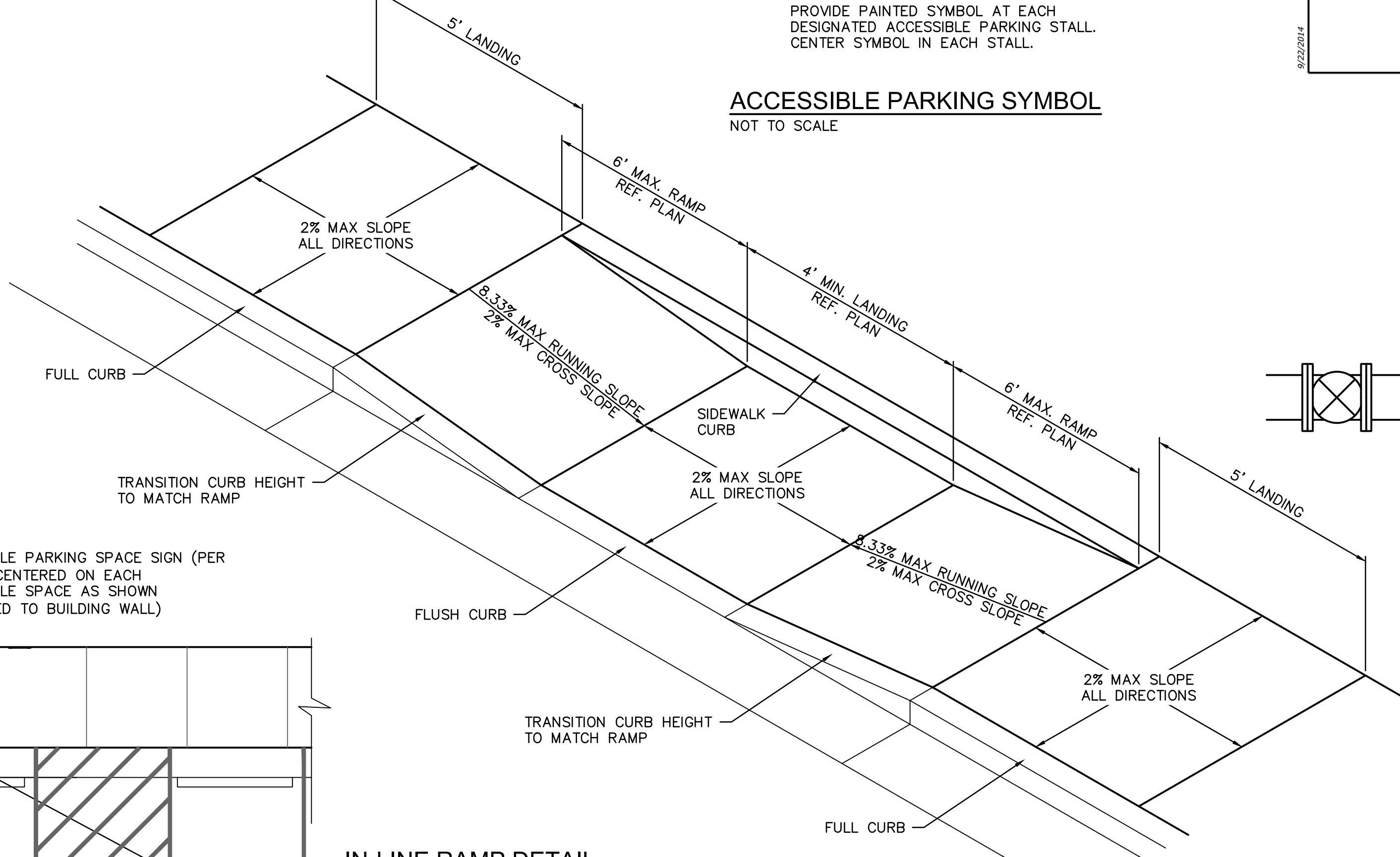
NOTE:

- Use for aprons serving culverts with slopes of less than 10%.
- Furnish geotextile conforming to Subsection 714.01(g).
- Excavation for placement of riprap will not be measured for payment.

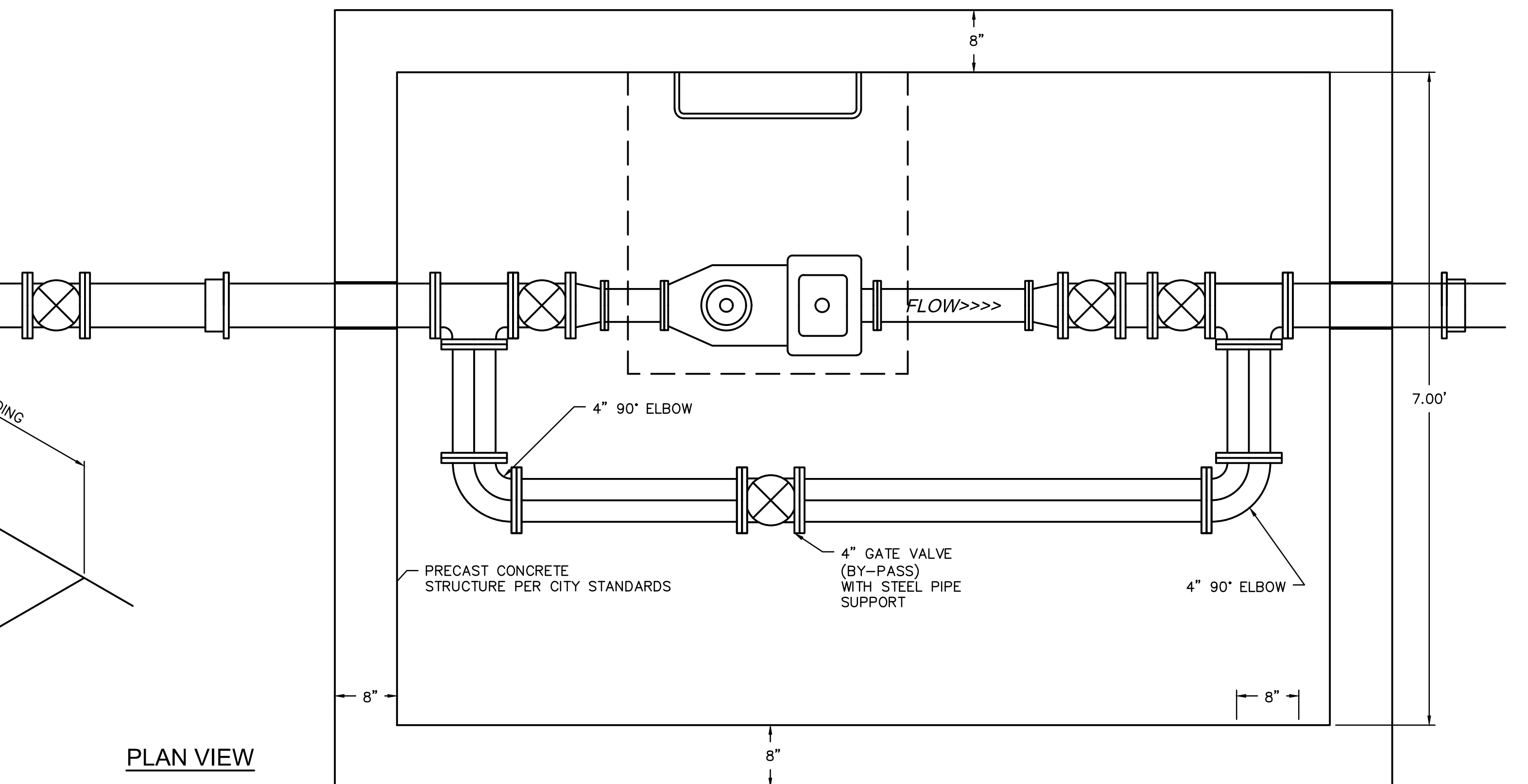


CULVERT SIZE D (Inches)	RIPRAP CLASS	LENGTH OF APRON L (feet)	DEPTH OF APRON H (feet)	ESTIMATED RIPRAP QUANTITY (CY)	ESTIMATED GEOTEXTILE QUANTITY (SY)
12	2	4	1.5	0.9	5
18	2	6	1.5	2	8
24	2	6	1.5	3.6	13
30	3	12.5	2	9.3	24
36	3	15	2	13.4	32
42	4	21	2.5	27.3	53
48	4	24	2.5	35.6	65
12	2	6	1.5	1.4	6
18	2	6	1.5	2.7	10
24	2	10	1.5	4.5	15
30	3	14.5	2	10.8	27
36	3	17	2	15.2	38
42	4	23	2.5	29.9	57
48	4	26	2.5	38.6	70

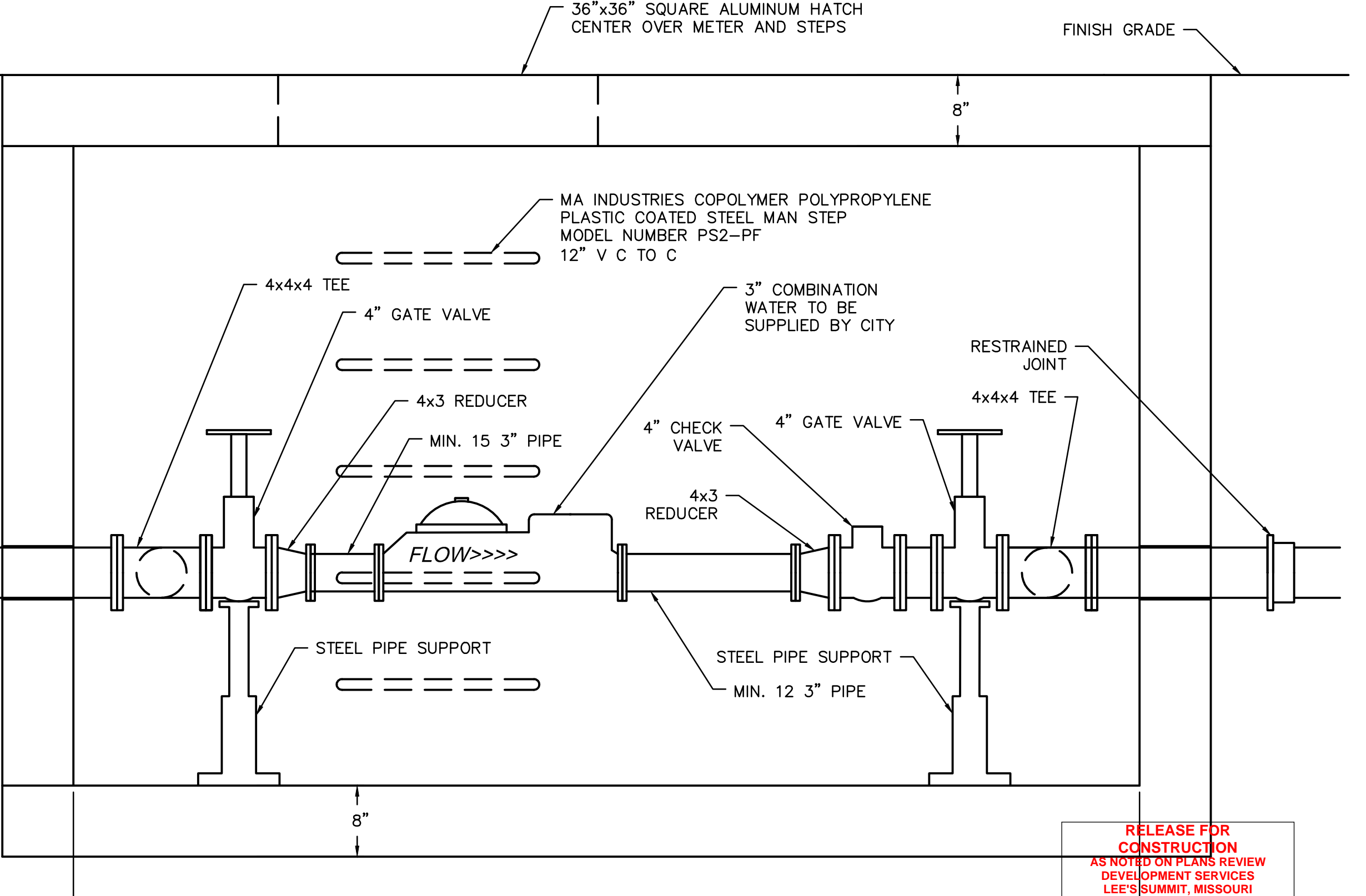
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION
U.S. CUSTOMARY DETAIL
PLACED RIPRAP AT CULVERT OUTLETS
NO SCALE
DETAIL C251-50



PLAN VIEW



ELEVATION VIEW



WATER METER VAULT DETAIL
NOT TO SCALE

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020

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MISSOURI CERTIFICATE OF AUTHORITY #001892
7301 West 133rd Street, Suite 200
Overland Park, KS 66214-7750
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LEE'S SUMMIT MIDDLE SCHOOL DISTRICT
LEE'S SUMMIT R-7 SCHOOL DISTRICT
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
08/28/20

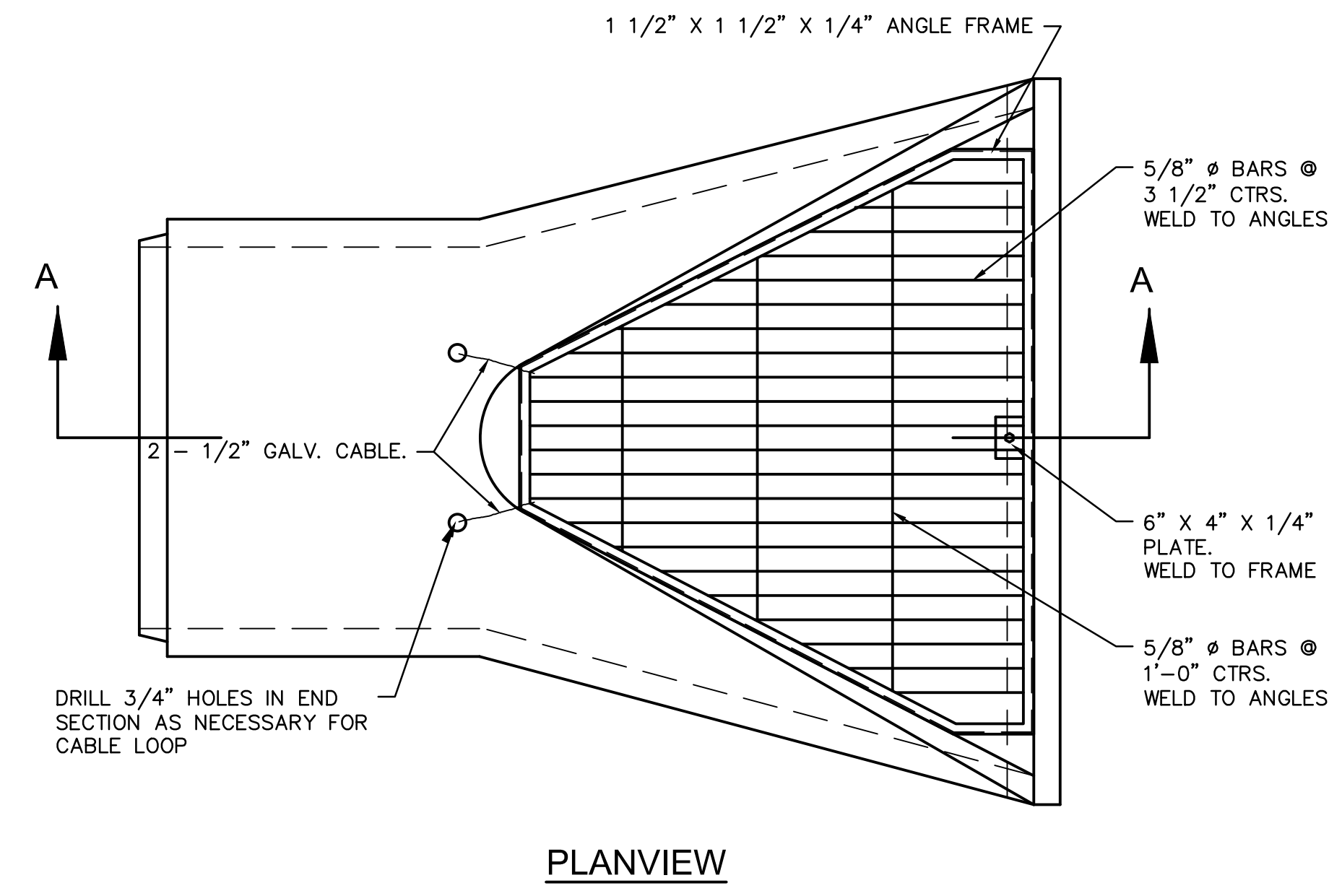
REVISIONS

- 1 REVISION PER CITY COMMENTS 10.01.20
- 2 REVISION PER CITY COMMENTS 11.04.20
- 3 REVISION PER CITY COMMENTS 11.12.20

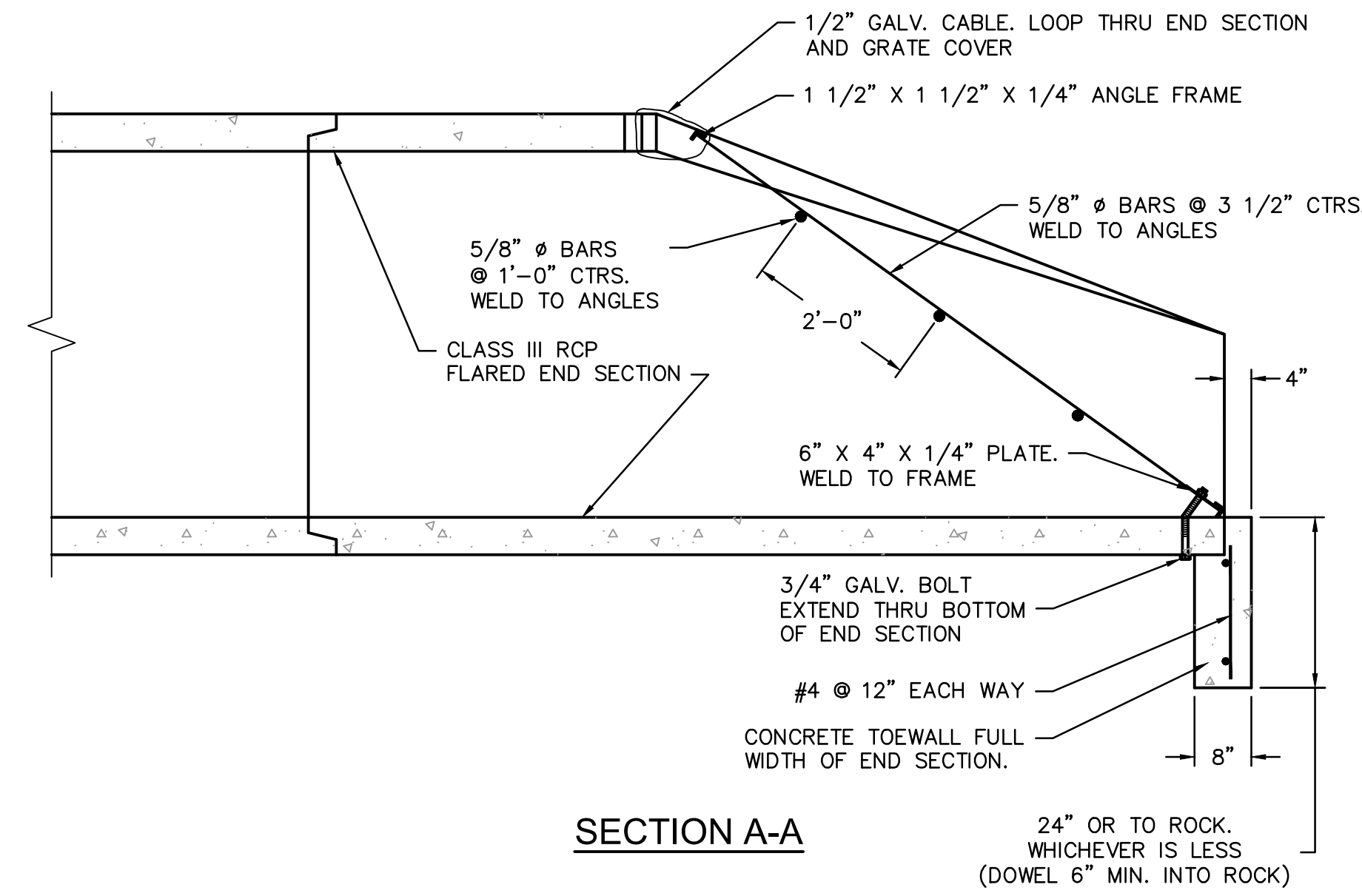
13-20102-00

STANDARD DETAILS

C1050



PLANVIEW

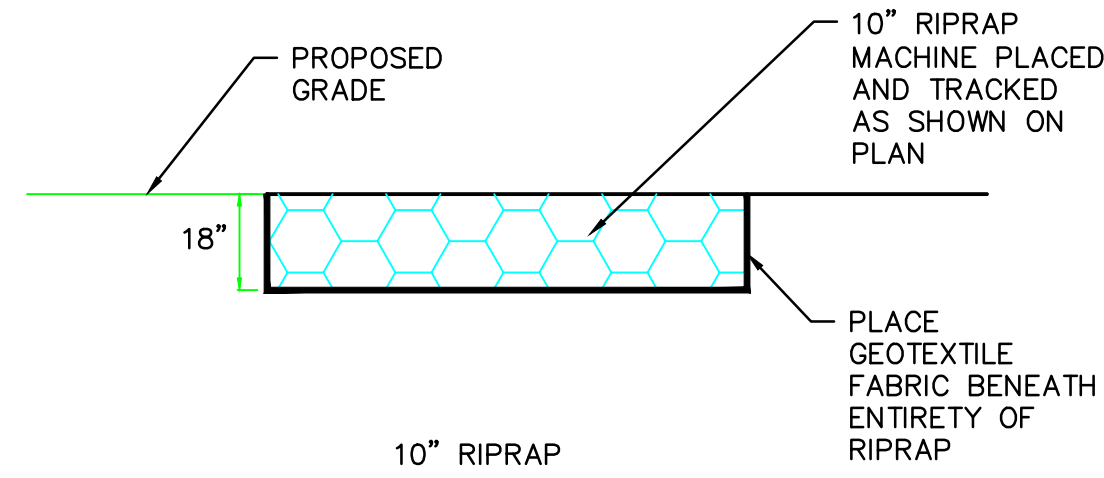


SECTION A-A

END SECTION NOTES

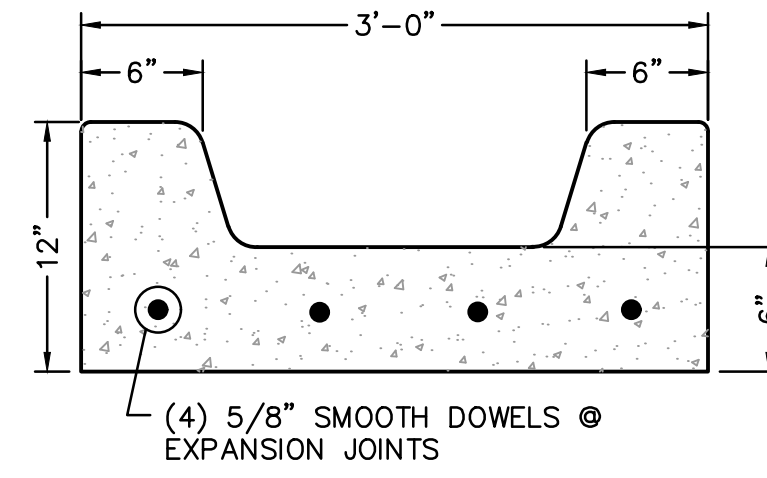
1. GRATE COVER DETAIL SHALL BE ADJUSTED AS NECESSARY TO FIT END SECTION PROVIDED.
2. MAXIMUM OPENING THRU END SECTION SHALL BE NO GREATER THAN 6". ADJUST DETAIL AS NECESSARY.
3. ALL METAL SURFACES SHALL BE HOT DIP ZINC COATED IN ACCORDANCE WITH ASTM A-123.
4. USE CITY APPROVED CONCRETE THROUGHOUT.
5. ALL CONCRETE AND MATERIALS USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE GOVERNING BODY.
6. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
7. 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.
8. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
9. 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.
10. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
11. 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.

END SECTION TOE WALL WITH GRATE
NOT TO SCALE

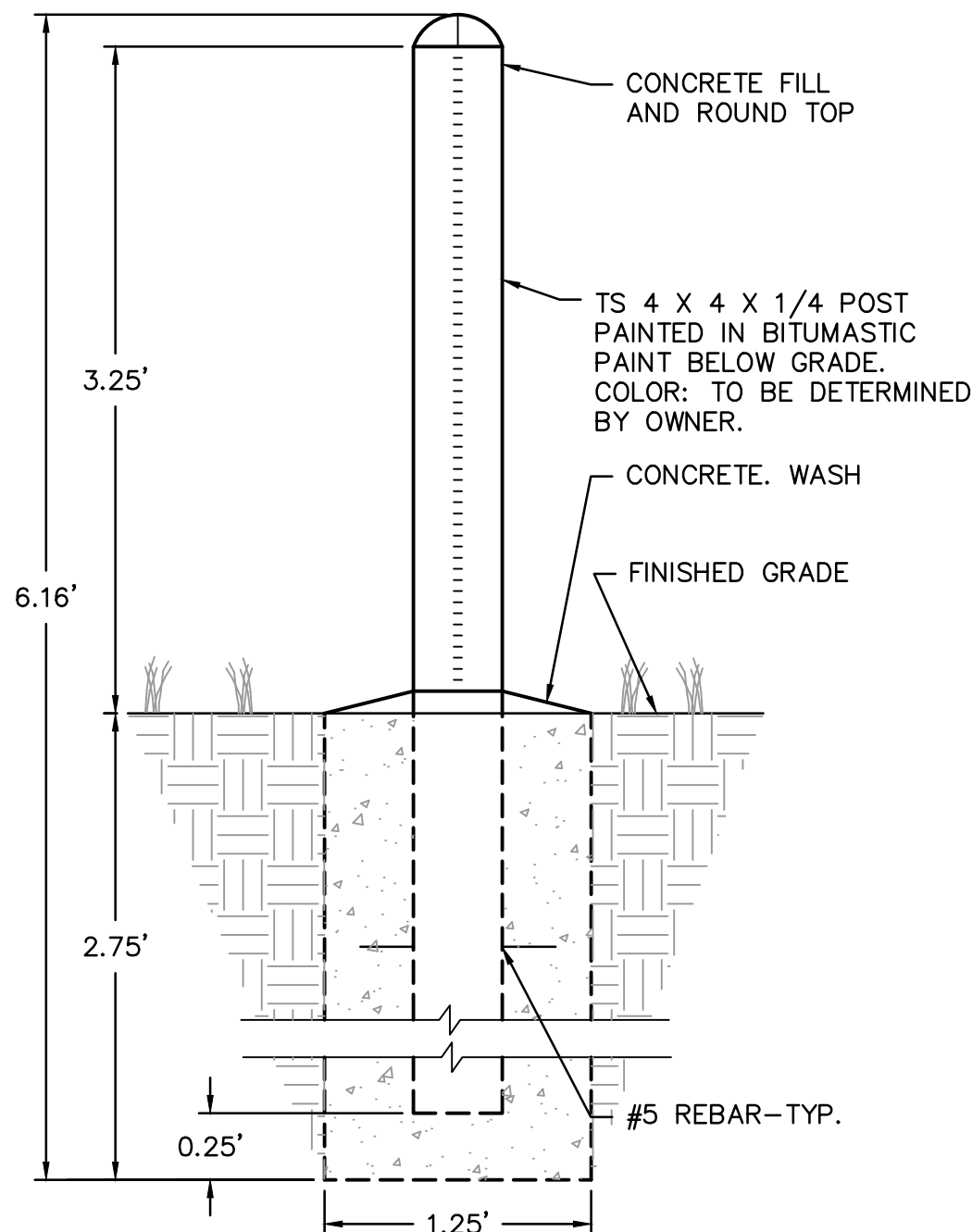


10" RIPRAP	
WEIGHT OF INDIVIDUAL PIECES	MINIMUM PERCENT LARGER THAN
500 lbs.	0%
250 lbs.	50%
125 lbs.	70%
10 lbs.	90%

STONE RIPRAP DETAIL
NOT TO SCALE

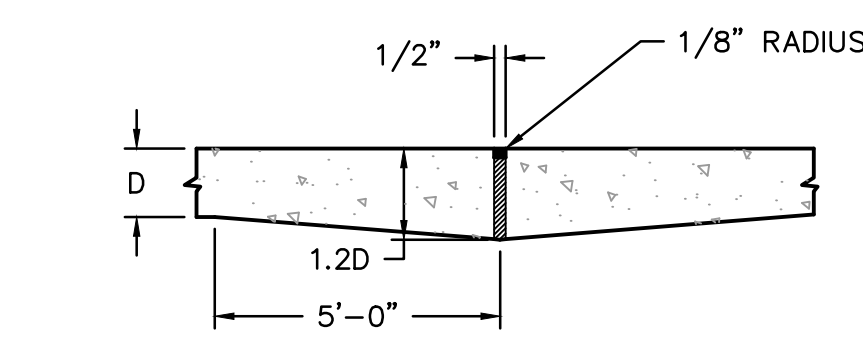


CONCRETE FLUME DETAIL
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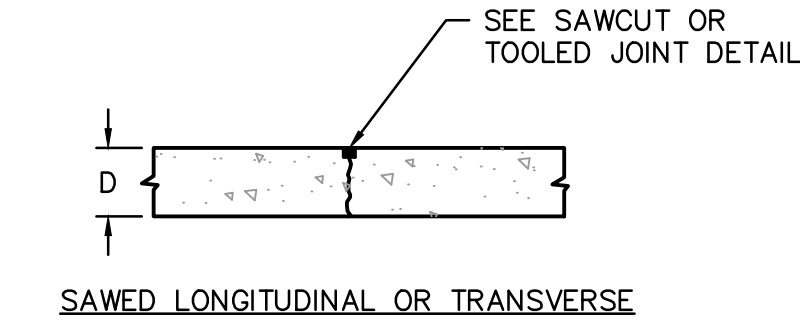
NOTE:
WHEN PLACED IN PAVEMENT, TOP OF CONCRETE FOUNDATION SHALL BE PLACED BELOW NEW PAVEMENT WITH 1/2" ISOLATION JOINT & SEAL.

BOLLARD DETAIL
NOT TO SCALE

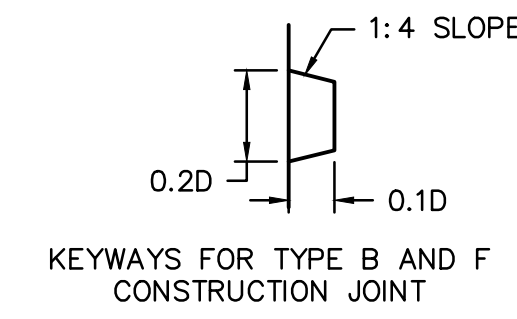


EXPANSION JOINT AT CONNECTION TO EXISTING PAVEMENT

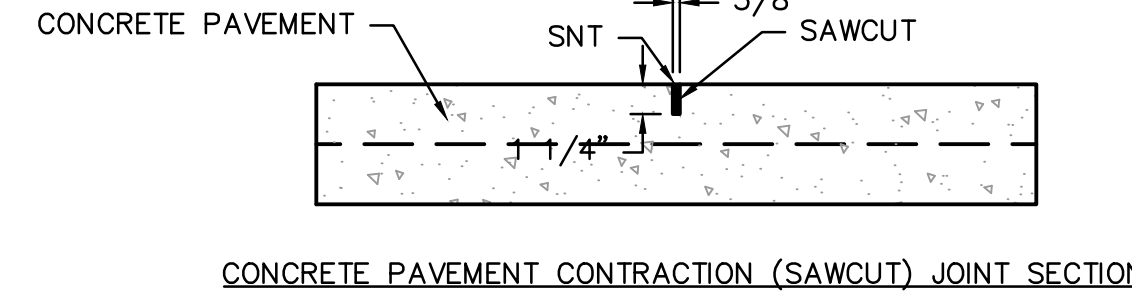
- NOTE:
1. EXPANSION JOINTS TO BE USED IN ALL AREAS THAT CONCRETE PAVEMENT ABUTS BUILDING.
2. 6X6X6 WELDED WIRE MESH IS TO BE USED IN ALL CONCRETE WALKS AROUND BUILDINGS.



SAWCUT JOINT



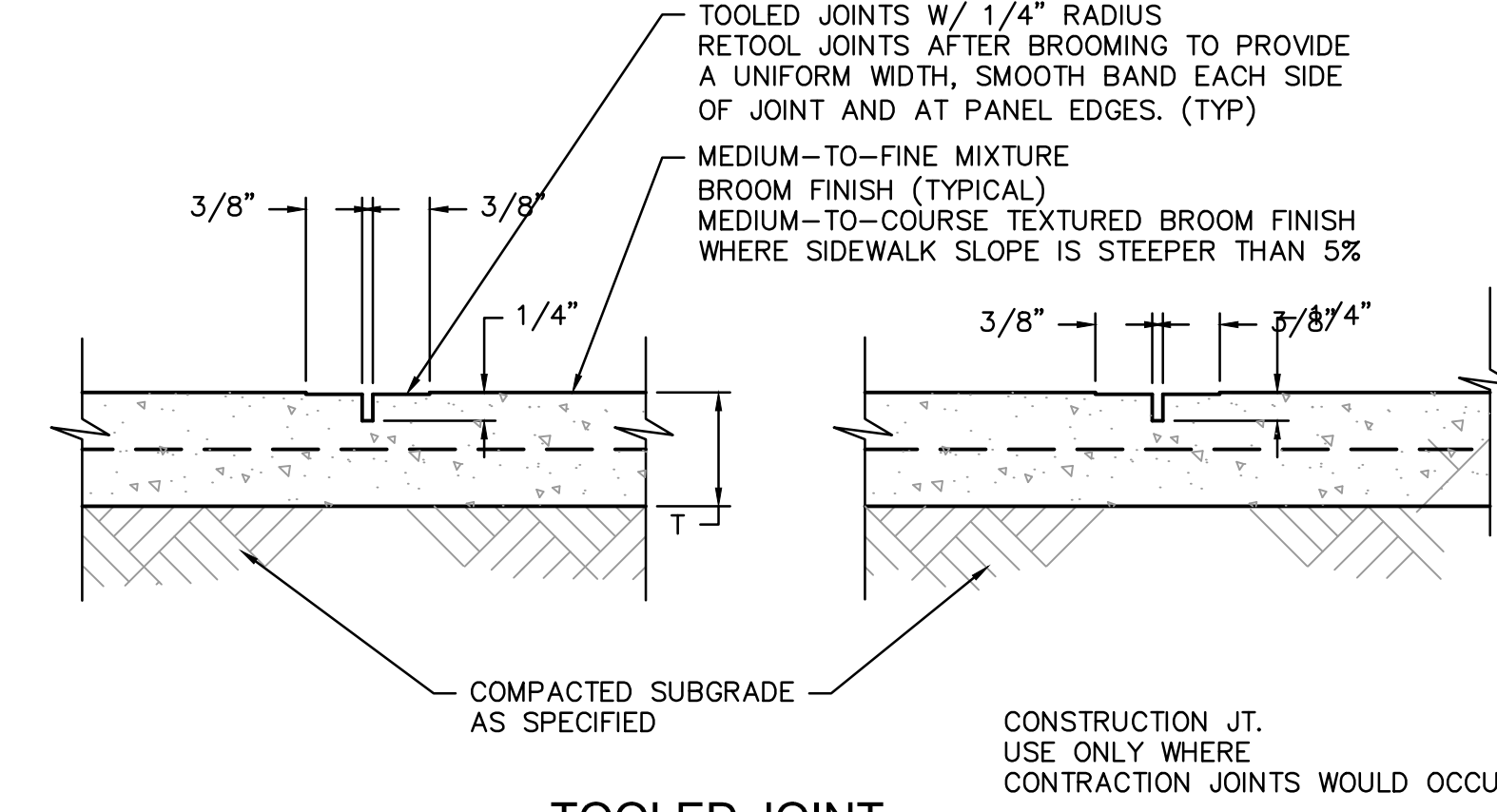
TOOLED JOINT



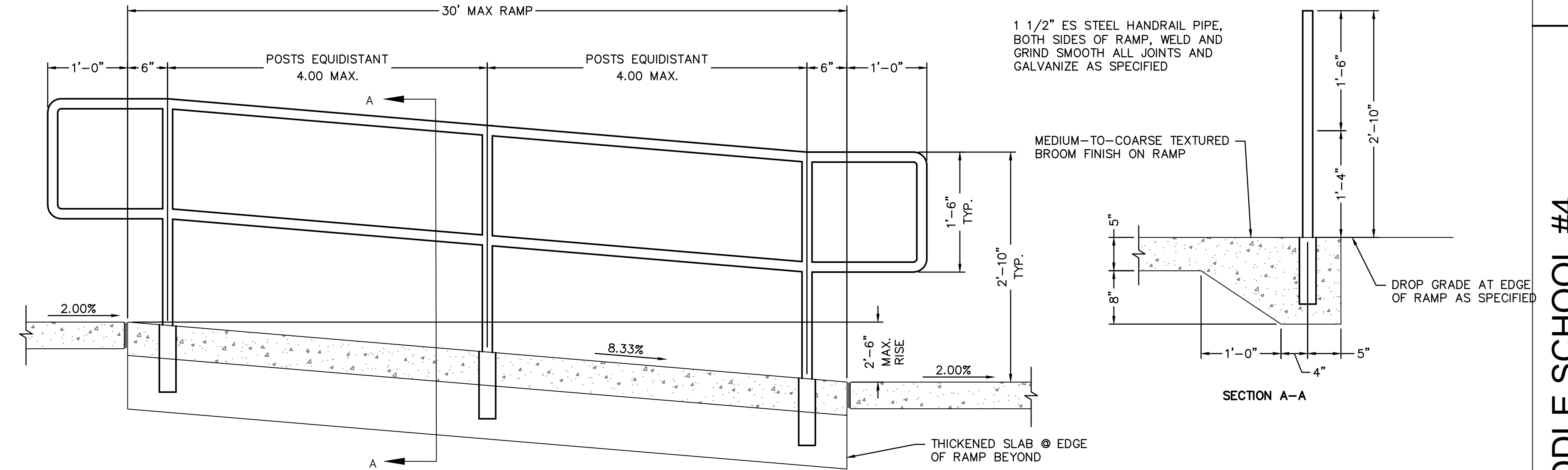
CONCRETE PAVING JOINT DETAILS

SAWCUT JOINT

CONCRETE PAVING JOINT DETAILS
NOT TO SCALE



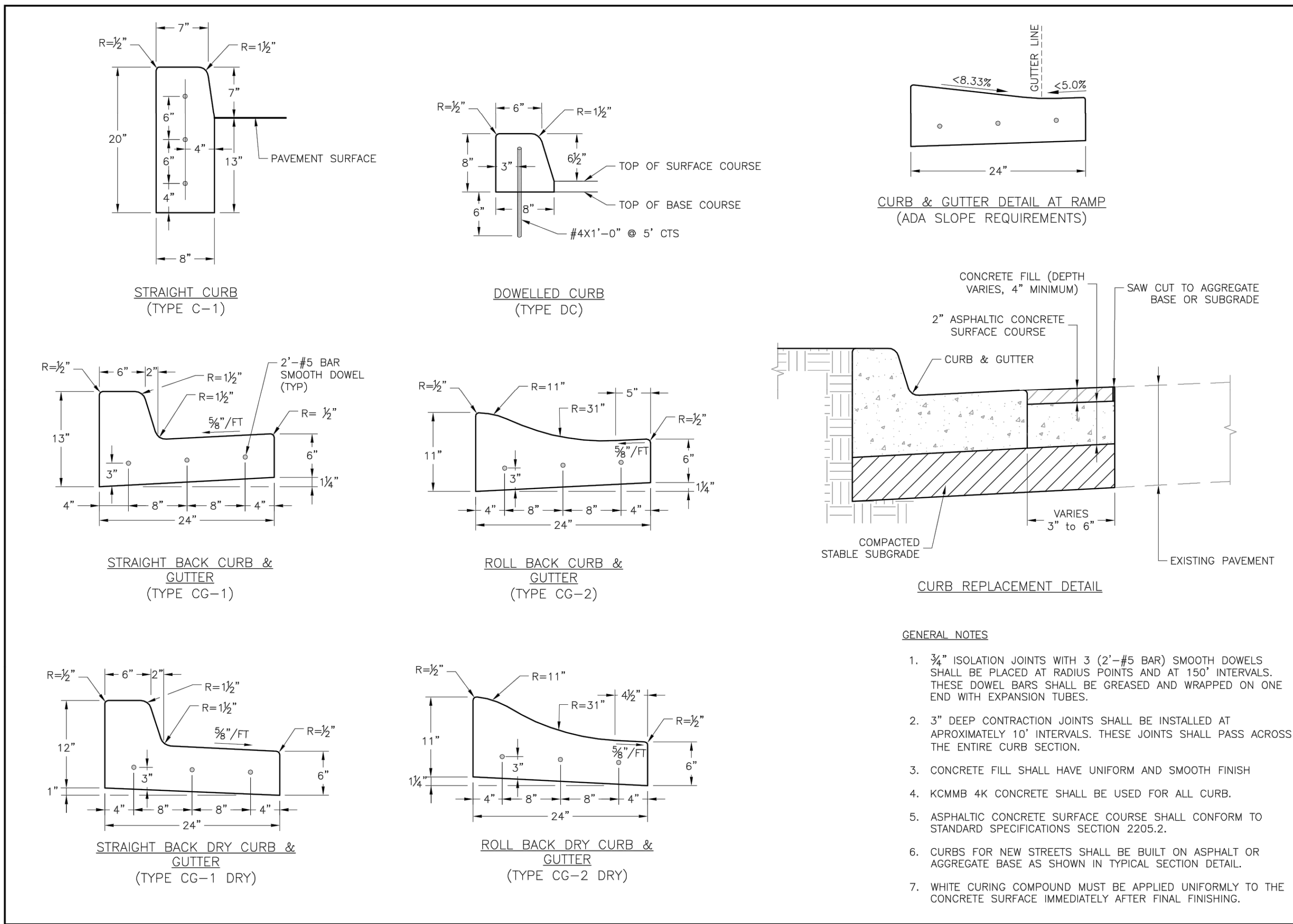
TOOLED JOINT



ACCESSIBLE RAMP WITH HANDRAIL
NOT TO SCALE

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/19/2020

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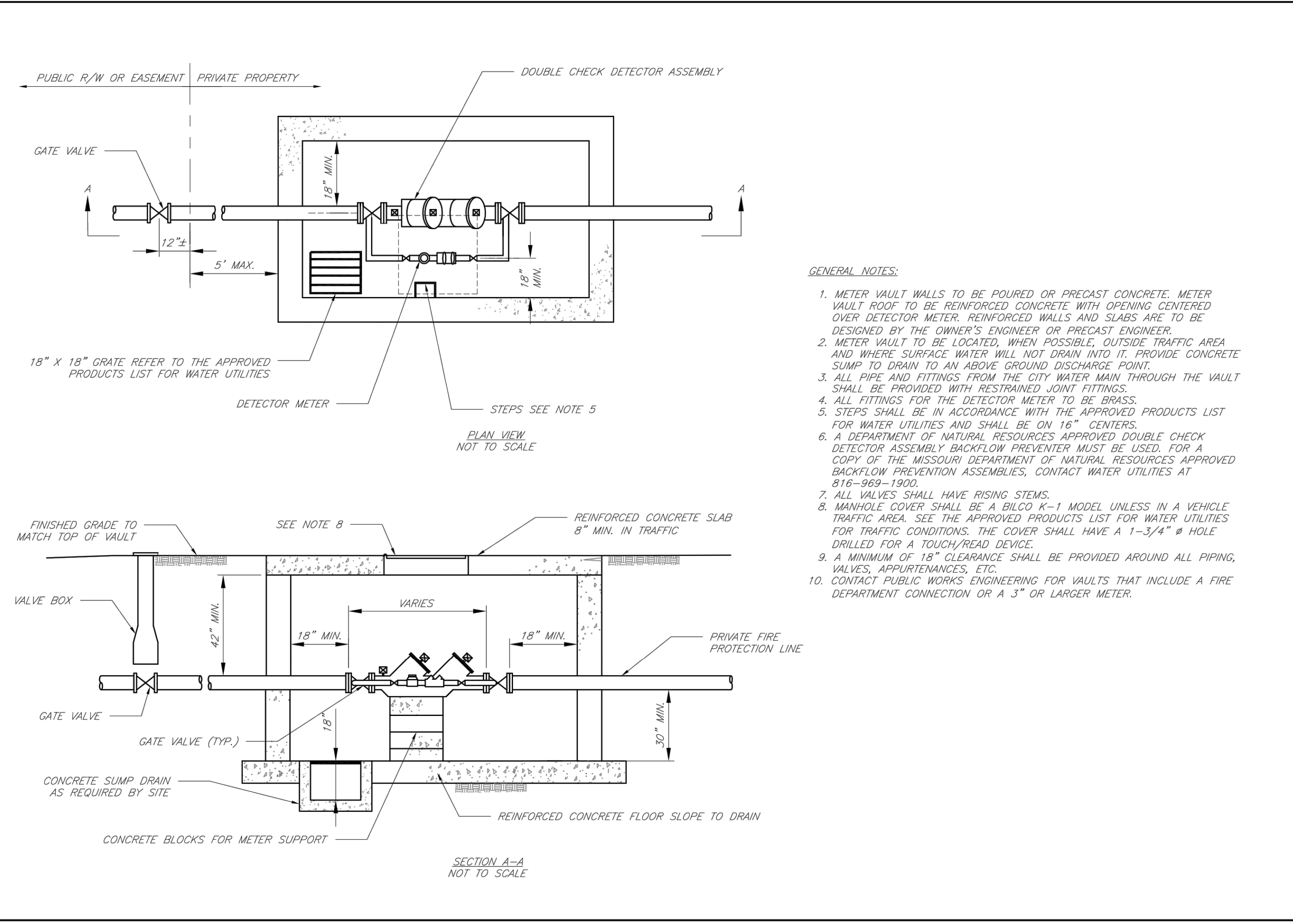
LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64083

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

CURB & GUTTER DETAIL

Drawn by: MAF
 Checked by: DL
 Date: 08/20/20
 Scale: 1/2" = 1'-0"

GEN-4

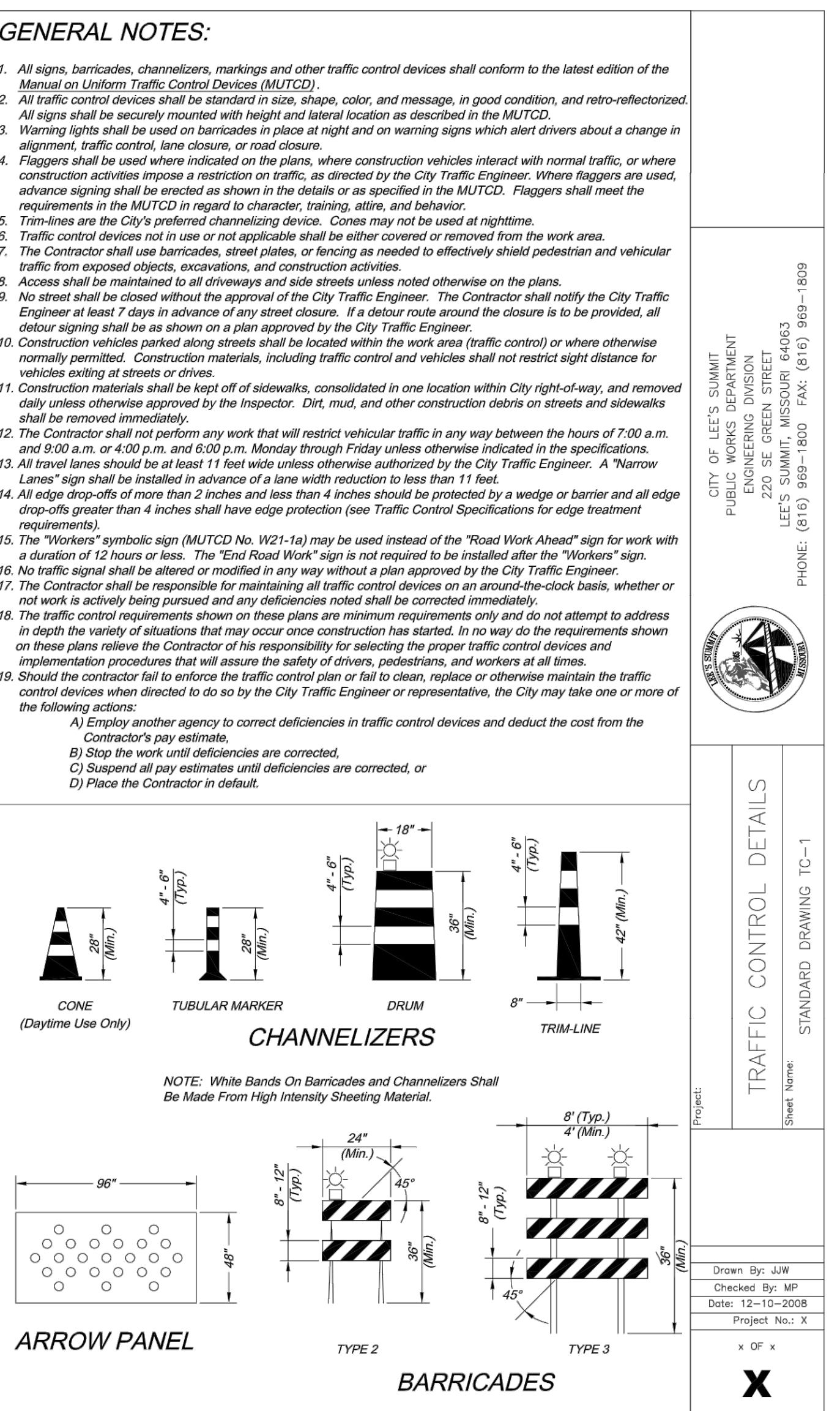
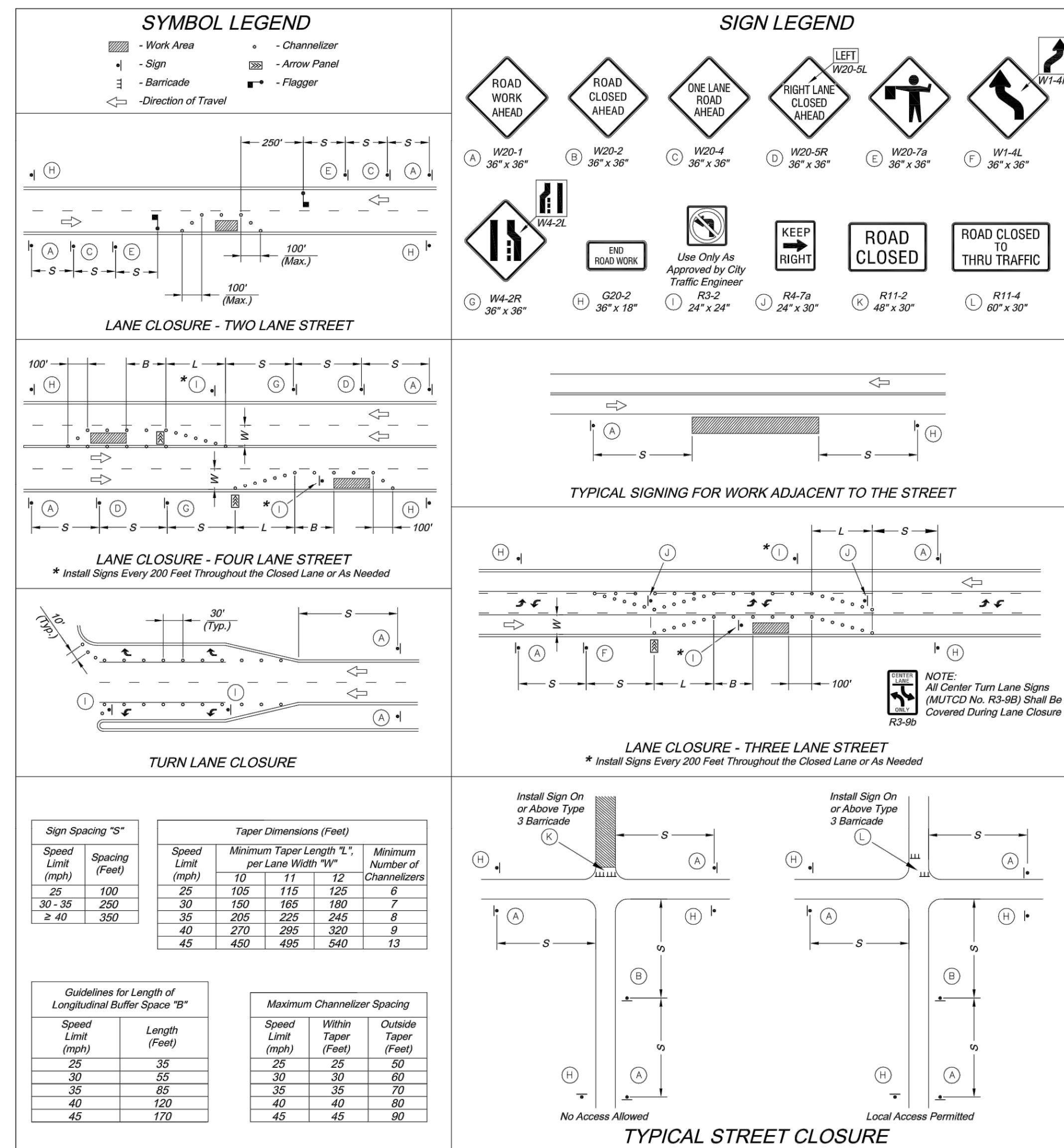


CITY OF LEE'S SUMMIT, MO
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

STANDARD DRAWINGS
 VAULT FOR DOUBLE CHECK DETECTOR CHECK

Drawn by: AJL
 Checked by: DL
 Date: 1/24
 Rev: 1/24

WAT-12



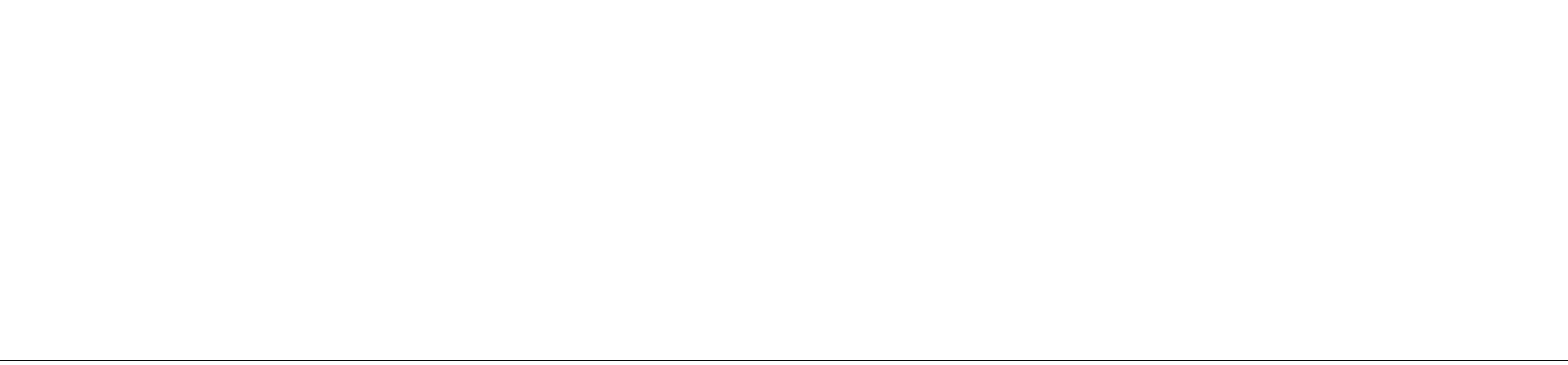
DLR Group
 6 DLR Group
 8020 D.L.R. Center, Inc. - Missouri corporation
 Missouri State Certificate of Authority #00939

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 CIVIL ENGINEERING
 MISSOURI CERTIFICATE OF AUTHORITY #001982
 7301 West 133rd Street, Suite 200
 Overland Park, KS 66214-7150
 TEL: 913.381.1170
 www.olsson.com

STATE OF MISSOURI
 TERRY M. PARSONS
 NUMBER PE-2018010585
 1/6/2022
 PROFESSIONAL ENGINEER

TRAFFIC CONTROL DETAILS
 STANDARD DRAWING TC-1

Drawn by: JAH
 Checked by: MP
 Date: 12-10-2018
 Project No.: 2
 Scale: 1/2" = 1'-0"

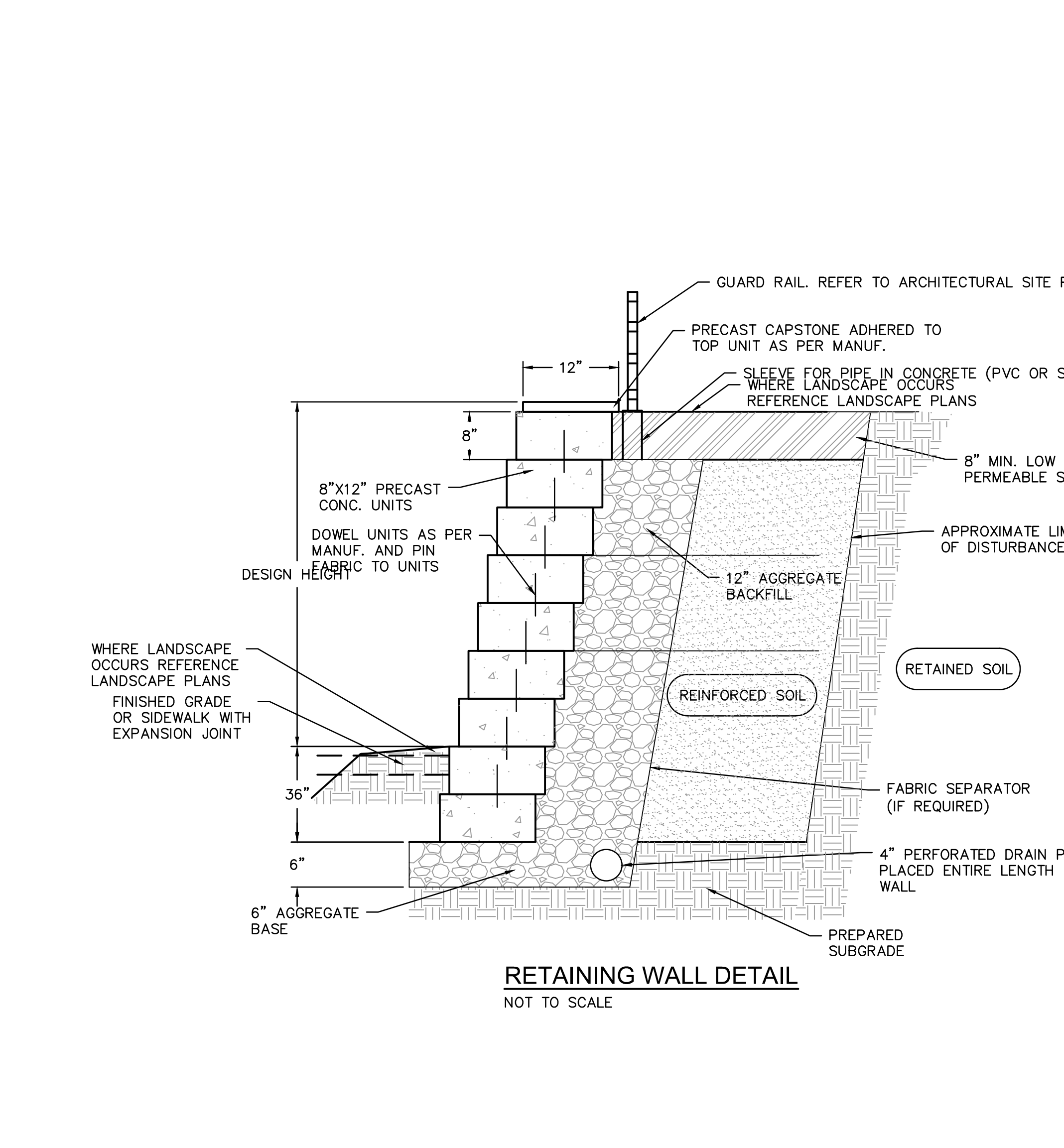


CITY OF LEE'S SUMMIT, MO
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

STANDARD DRAWINGS
 VAULT FOR DOUBLE CHECK DETECTOR CHECK

Drawn by: AJL
 Checked by: DL
 Date: 1/24
 Rev: 1/24

WAT-12



RETAINING WALL NOTES

- RETAINING WALL SHALL BE "VERSA-LOK MOSAIC RETAINING WALL (NON-WEATHERED) AND THE COLAR SHALL BE PALOMINO GRAY". THE DETAILS PROVIDED HERE ARE FOR GENERAL GUIDANCE ONLY. THE WALL SHALL BE "DESIGN-BUILD" PROVIDED COMPLETE IN-PLACE BY THE CONTRACTOR.
- THE WALL SHALL BE DESIGNED BY THE INSTALLER ACCORDING TO THE WALL UNIT MANUFACTURER'S DESIGN CRITERIA. THE DESIGN SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AS A SHOP DRAWING FOR REVIEW. ALL DESIGN CALCULATIONS AND DESIGN CRITERIA (ANGLE OF FRICTION, SOIL WEIGHT, ETC.), SHALL BE SUBMITTED WITH THE SHOP DRAWING. ALL DESIGN MUST BE SEALED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF KANSAS.
- FACTORS OF SAFETY SHALL BE AS FOLLOWS:
 - 1.5 AGAINST REINFORCEMENT GRID PULLOUT OR RUPTURE
 - 1.5 AGAINST EXTERNAL SLIDING FAILURE
 - 2.0 AGAINST OVERTURNING
- THE DESIGN, DIMENSIONS, AND MATERIAL SHOWN IN THIS DETAIL ARE GENERAL IN NATURE. THE AGGREGATE MATERIALS, GEGRID SYSTEM, AND INSTALLATION SHALL BE AS WALL UNIT MANUFACTURER'S REQUIREMENTS.
- SEE SPECIFICATIONS FOR MATERIAL SELECTION AND OTHER REQUIREMENTS.
- GLOBAL STABILITY ANALYSIS SHALL BE PERFORMED BY THE WALL DESIGNER TO TAKE INTO ACCOUNT EXTERNAL LOADS, SLOPES ABOVE AND BELOW THE WALL, AND HYDROSTATIC PRESSURE, WHEN APPLICABLE.
- RETAINING WALL SHALL PROVIDE POSITIVE INTERLOCKING BETWEEN BLOCKS AND GRID.

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

FINAL DEVELOPMENT PLAN
 08/28/20

REVISIONS

- REVISED PER CITY COMMENTS 10.01.20
- REVISED PER CITY COMMENTS 11.04.20

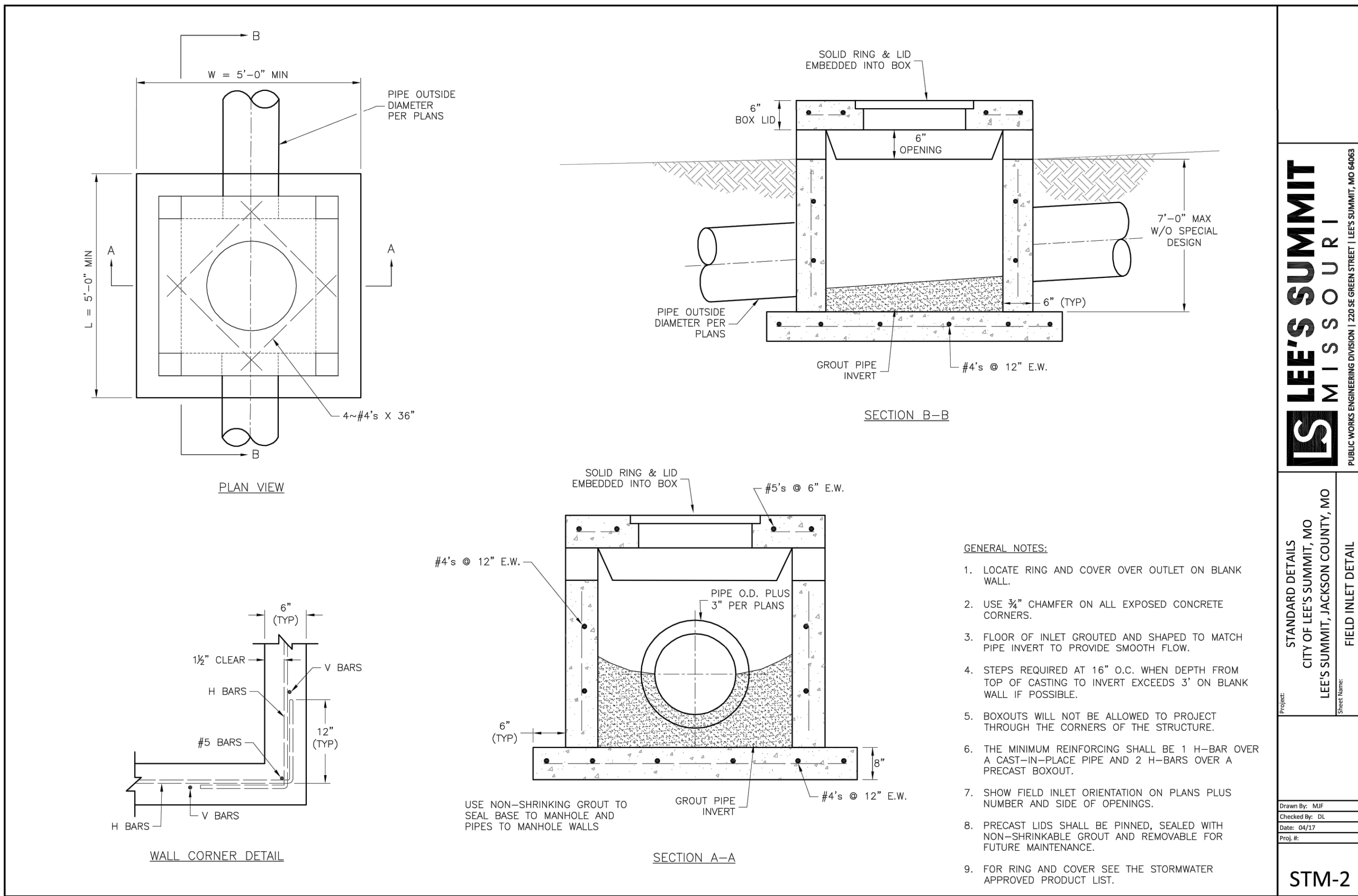
13-20102-00

STANDARD DETAILS

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020

C1052

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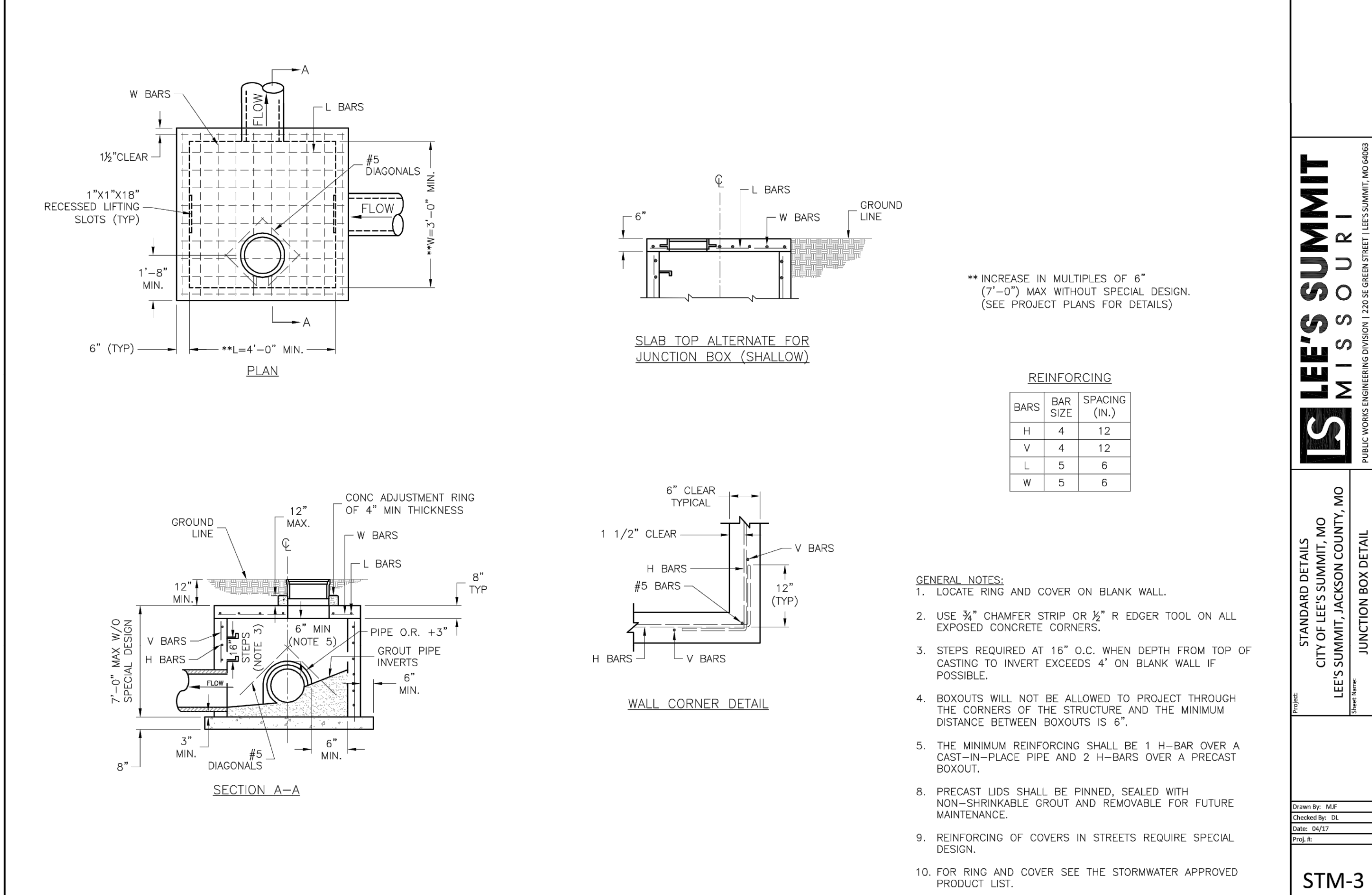


LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 1230 E. GREEN STREET | LEE'S SUMMIT, MO 64083

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

FIELD INLET DETAIL

STM-2



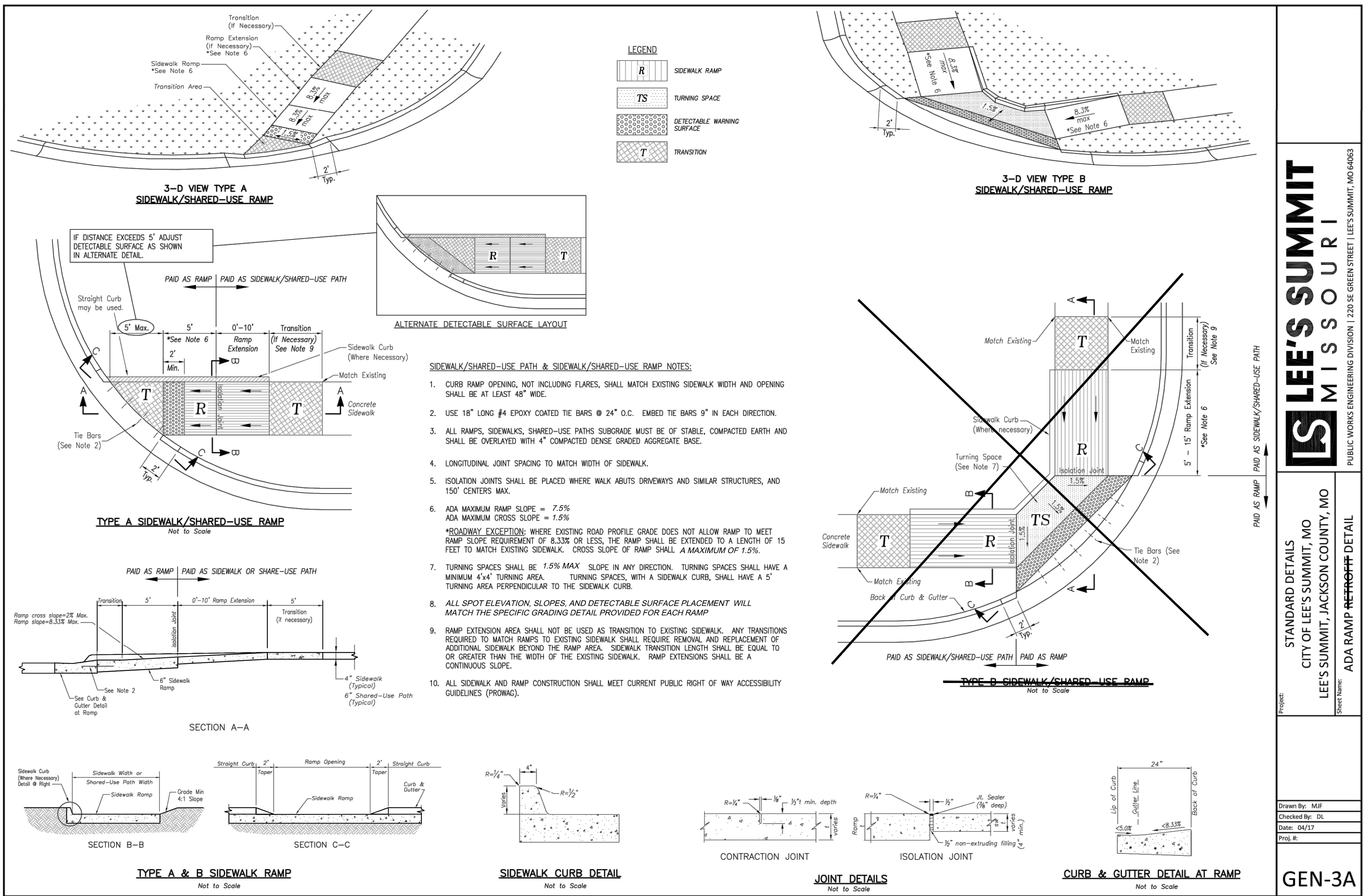
LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 1230 E. GREEN STREET | LEE'S SUMMIT, MO 64083

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

JUNCTION BOX DETAIL

STM-3

REINFORCING	
BAR SIZE (IN.)	SPACING (IN.)
H 4	12
V 4	12
L 5	6
W 5	6

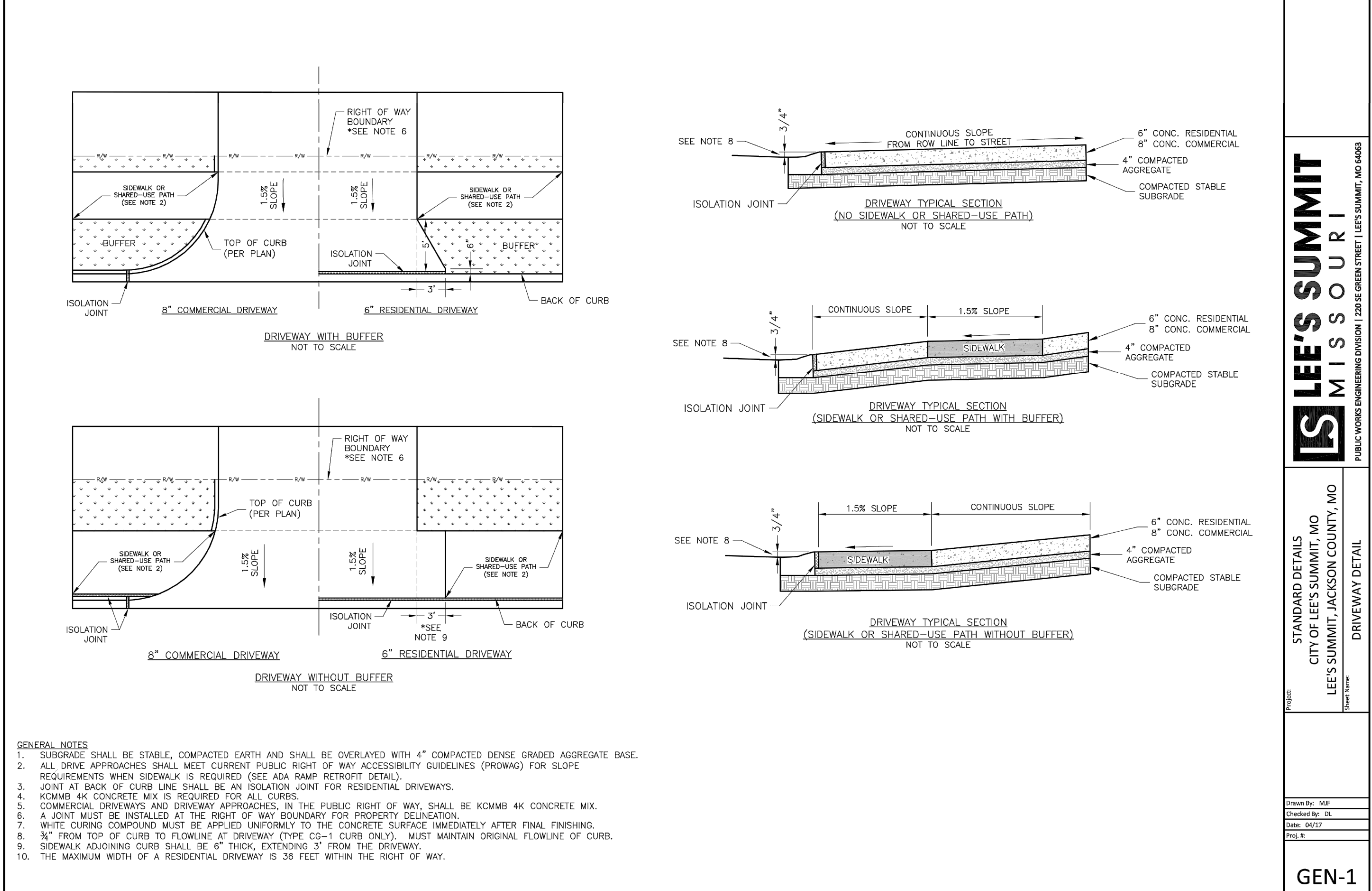


LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 1230 E. GREEN STREET | LEE'S SUMMIT, MO 64083

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

ADA RAMP RETROFIT DETAIL

GEN-3A



LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 1230 E. GREEN STREET | LEE'S SUMMIT, MO 64083

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

DRIVEWAY DETAIL

GEN-1

DLR Group
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 80200, DLR Group, Inc. a Missouri corporation
 Missouri State Certificate of Authority #00399

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STATE OF MISSOURI
 TERRY R. PARSONS
 NUMBER
 PE-2018010885
 1/16/2020
 PROFESSIONAL ENGINEER

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 1230 E. GREEN STREET | LEE'S SUMMIT, MO 64083

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

DRIVEWAY DETAIL

GEN-1

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

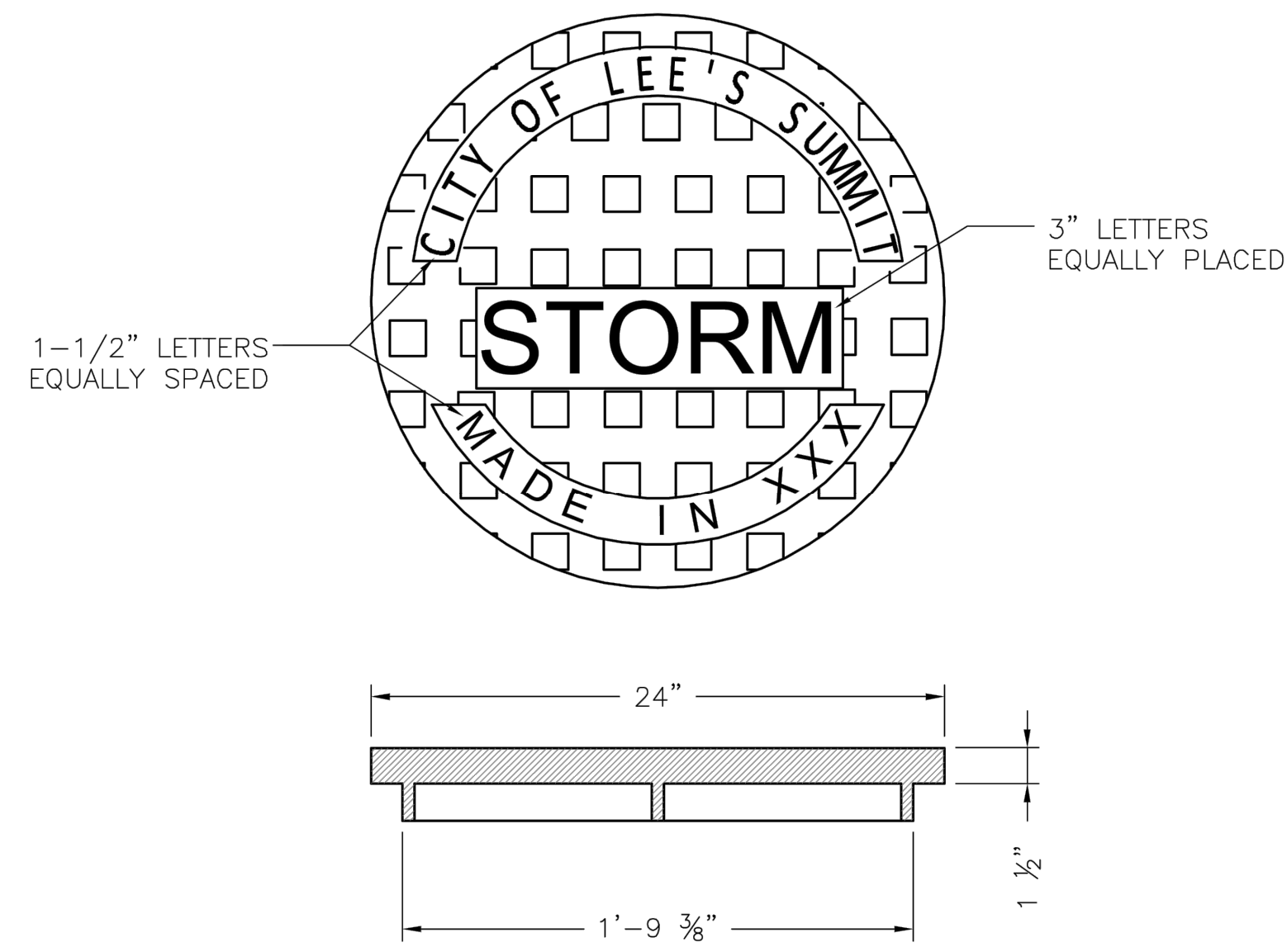
FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 REVISED PER CITY COMMENTS 10.01.20
 REVISED PER CITY COMMENTS 11.04.20

13-20102-00

STANDARD DETAILS

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020

C1053



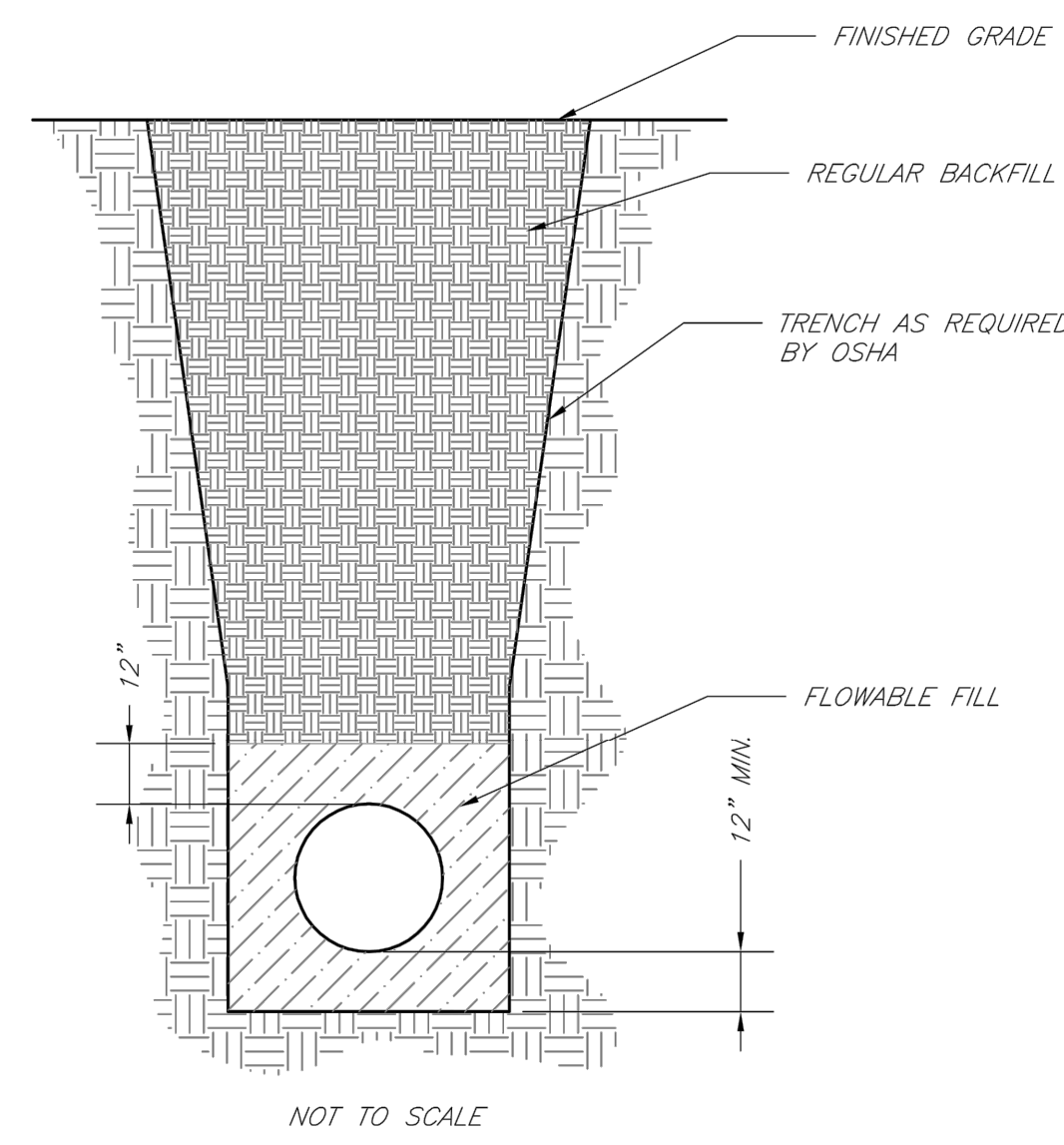
STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*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

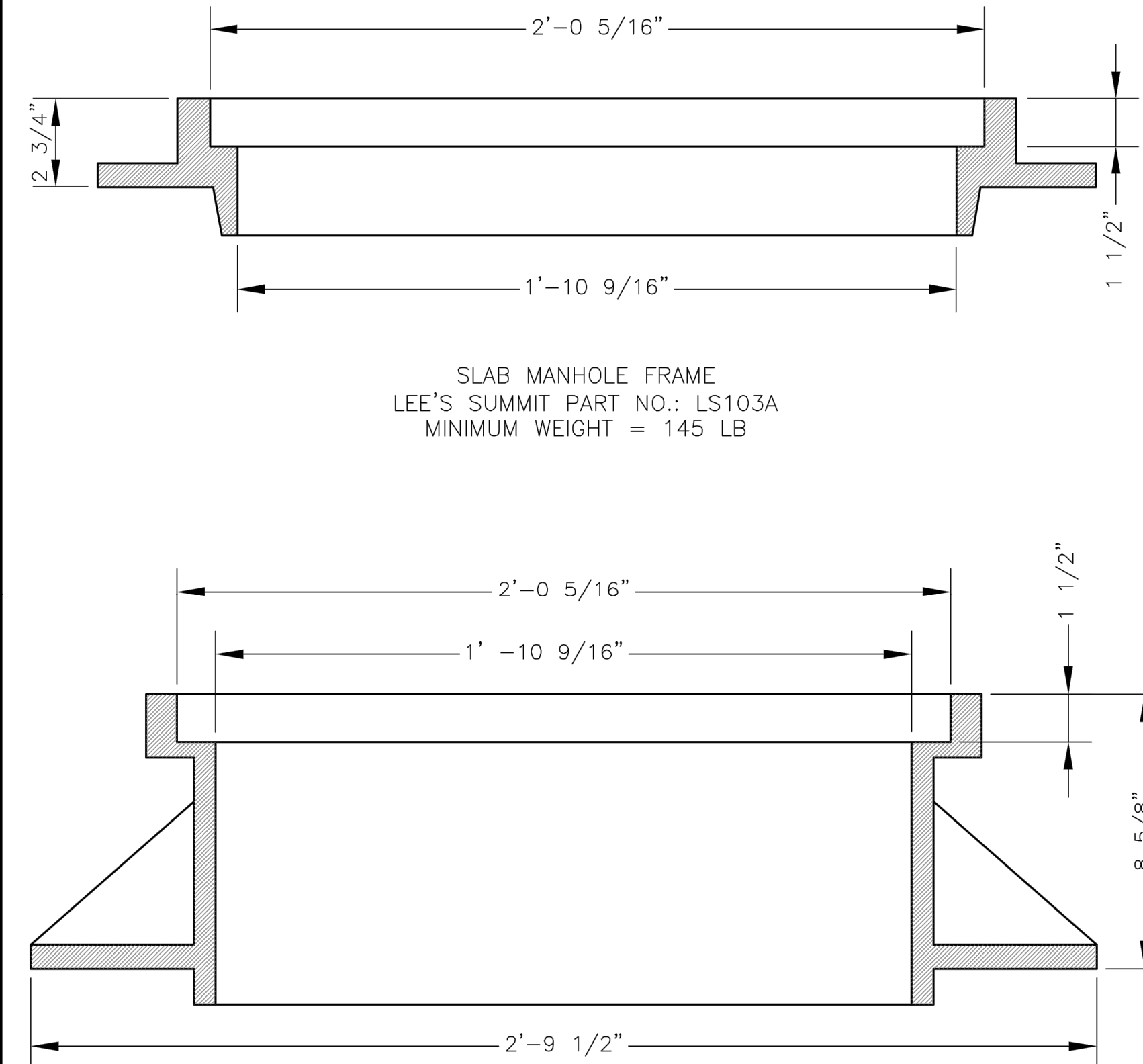


- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
 2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
 3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.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

TRENCH CHECK



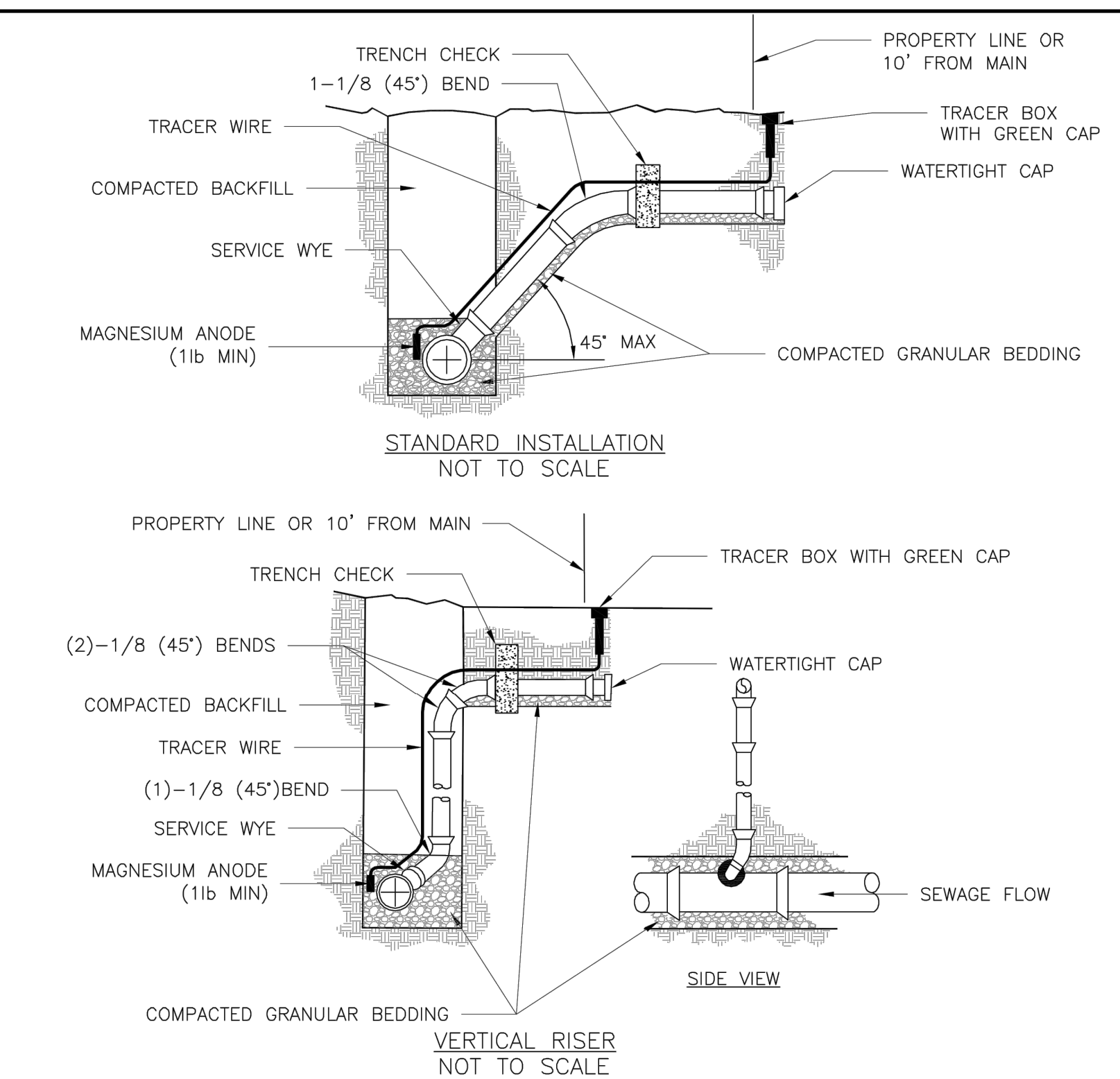
STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

*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

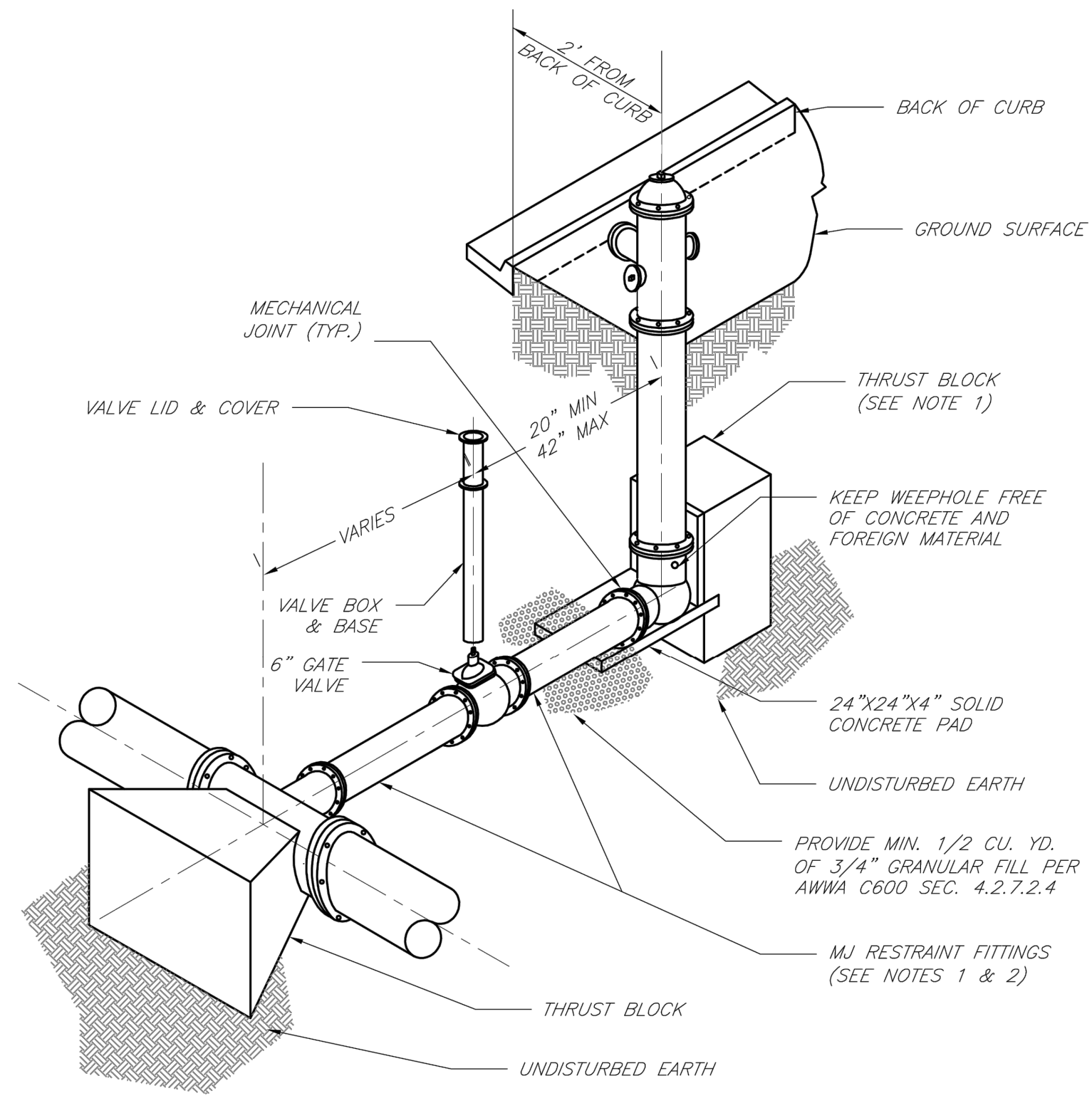


- NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN, WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
 2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" 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 10' 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

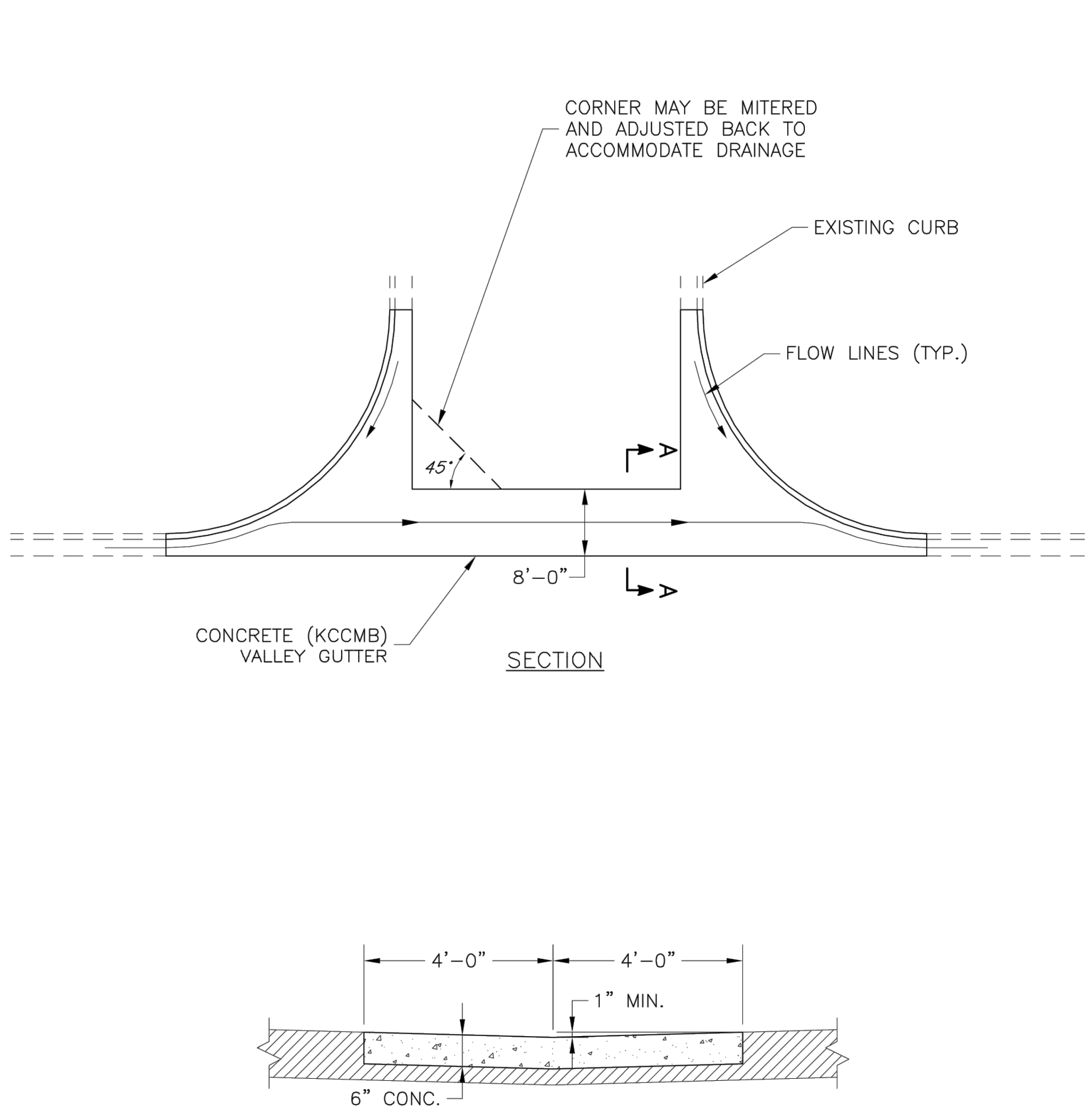


- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM 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

HYDRANT INSTALLATION - STRAIGHT SET

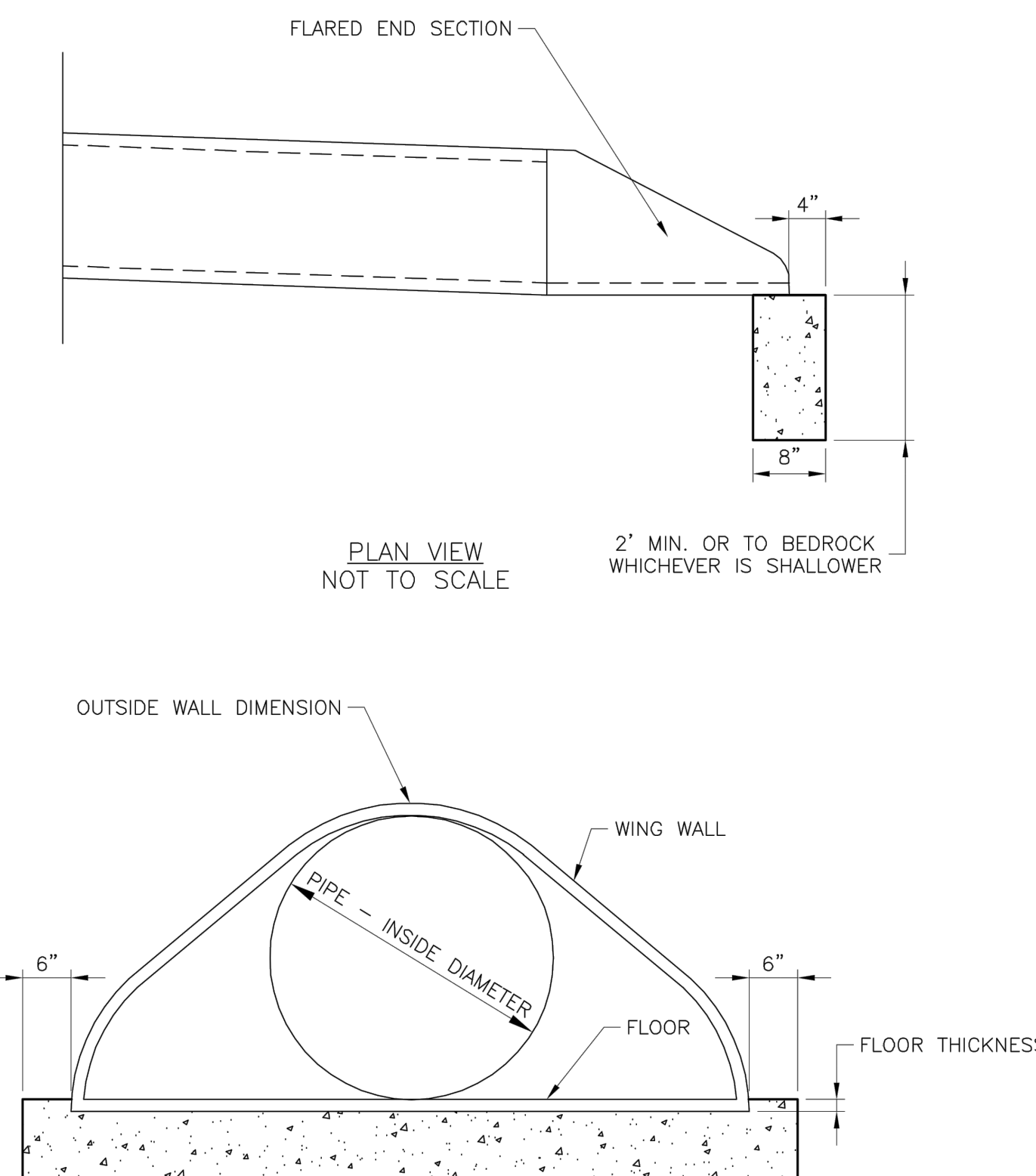


VALLEY GUTTER DETAIL
Intersection of Two Public Streets

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



FLARED END SECTION SUPPORT DETAIL

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	89.9	126.9	62.2	33.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	REST. JT.	154.6	78.4	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

VERTICAL THRUST BLOCKS

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 11/19/2020

DLR Group
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Missouri State Certificate of Authority #00099

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OLSSON, CIVIL ENGINEERING
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7301 West 133rd Street, Suite 200
Overland Park, KS 66221-4750
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STATE OF MISSOURI
TERRY R. PARSONS
NUMBER
PE-2018010885
1/6/2020
PROFESSIONAL ENGINEER

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

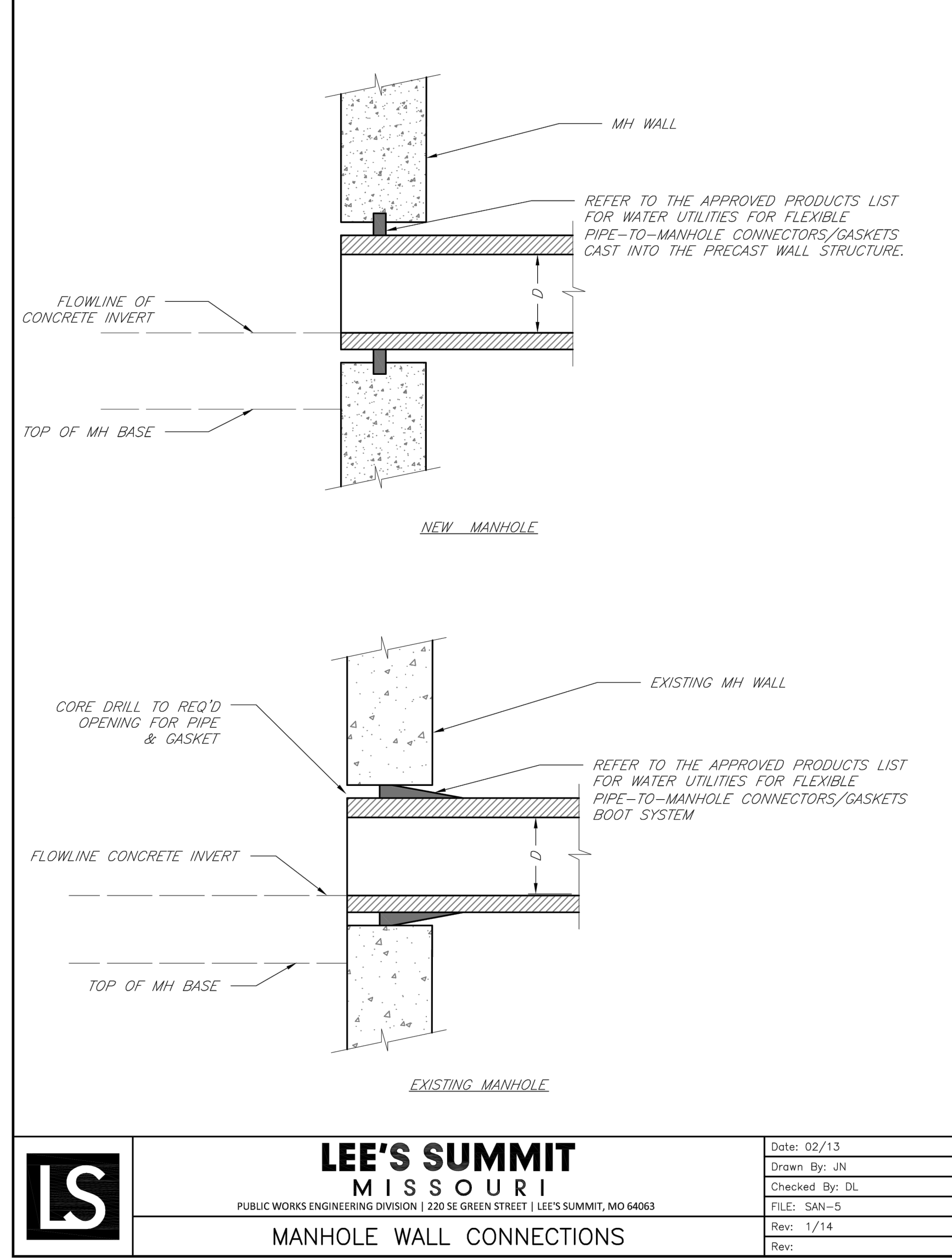
FINAL DEVELOPMENT PLAN
08/28/20

REVISIONS
REVISED PER CITY COMMENTS 10.01.20
REVISED PER CITY COMMENTS 11.04.20

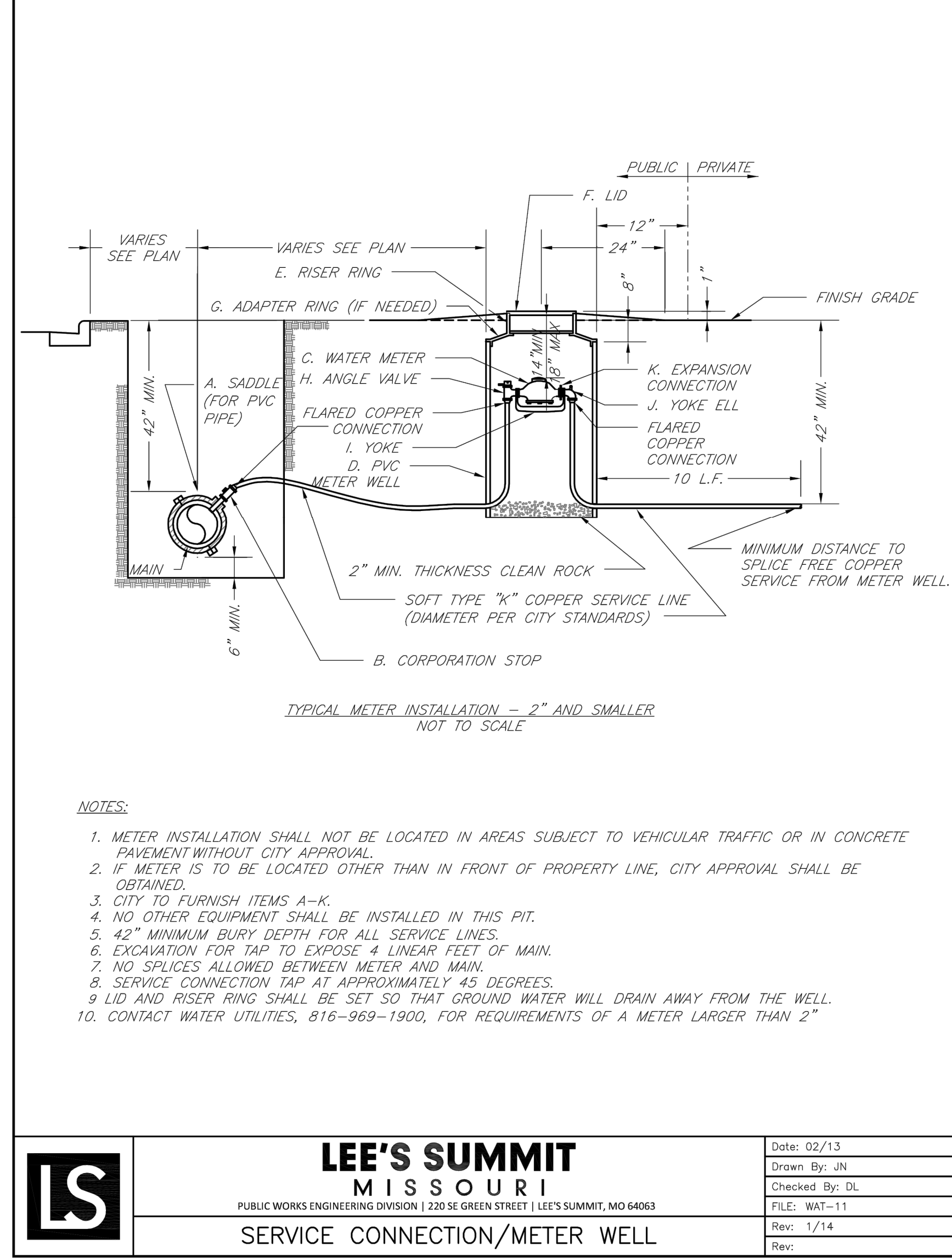
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STANDARD DETAILS

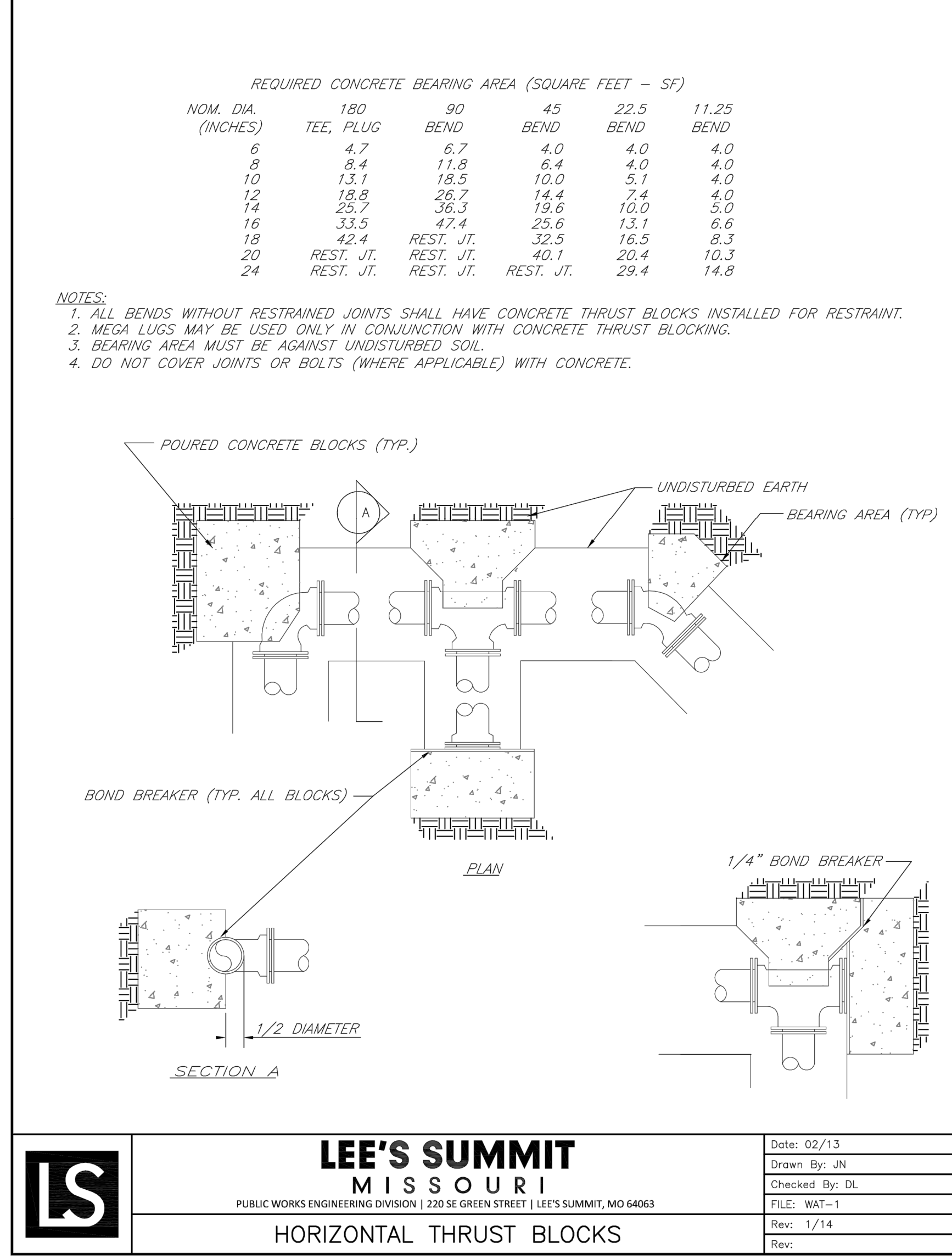
C1054



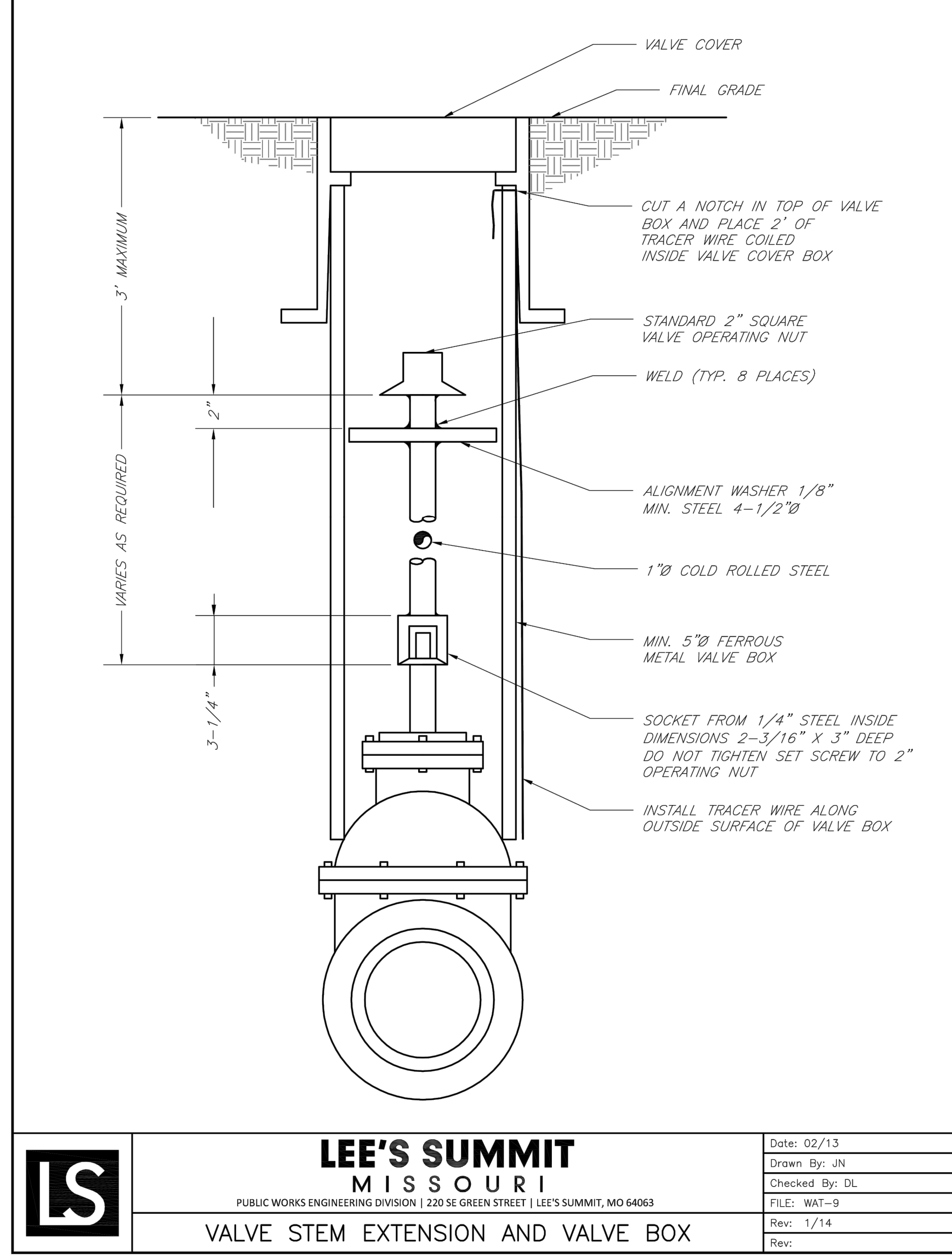
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	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Drawn By: JN
	MANHOLE WALL CONNECTIONS	Checked By: DL
		FILE: SAN-5
		Rev: 1/14
		Rev:



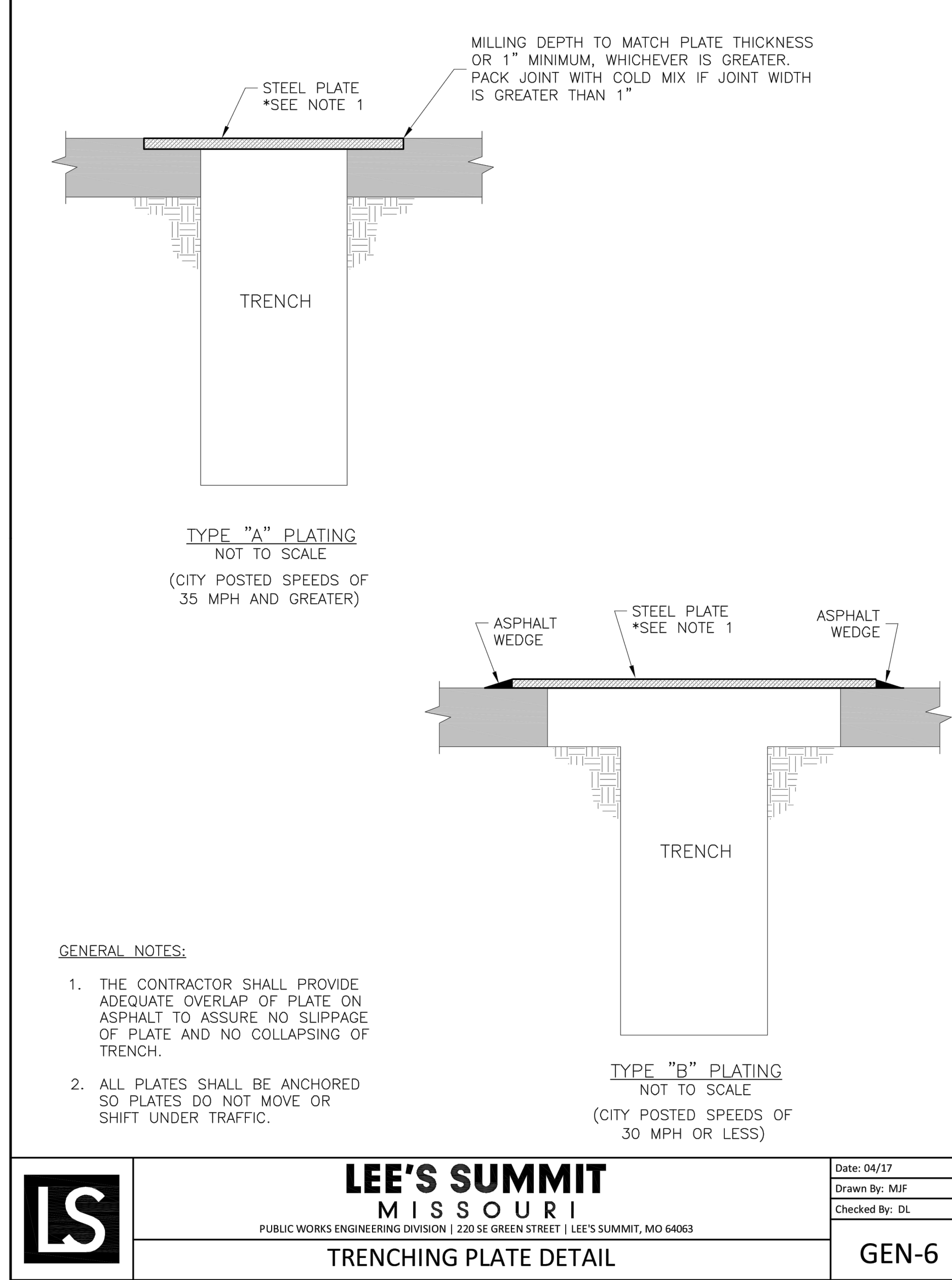
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		Rev: 1/14
		Rev:



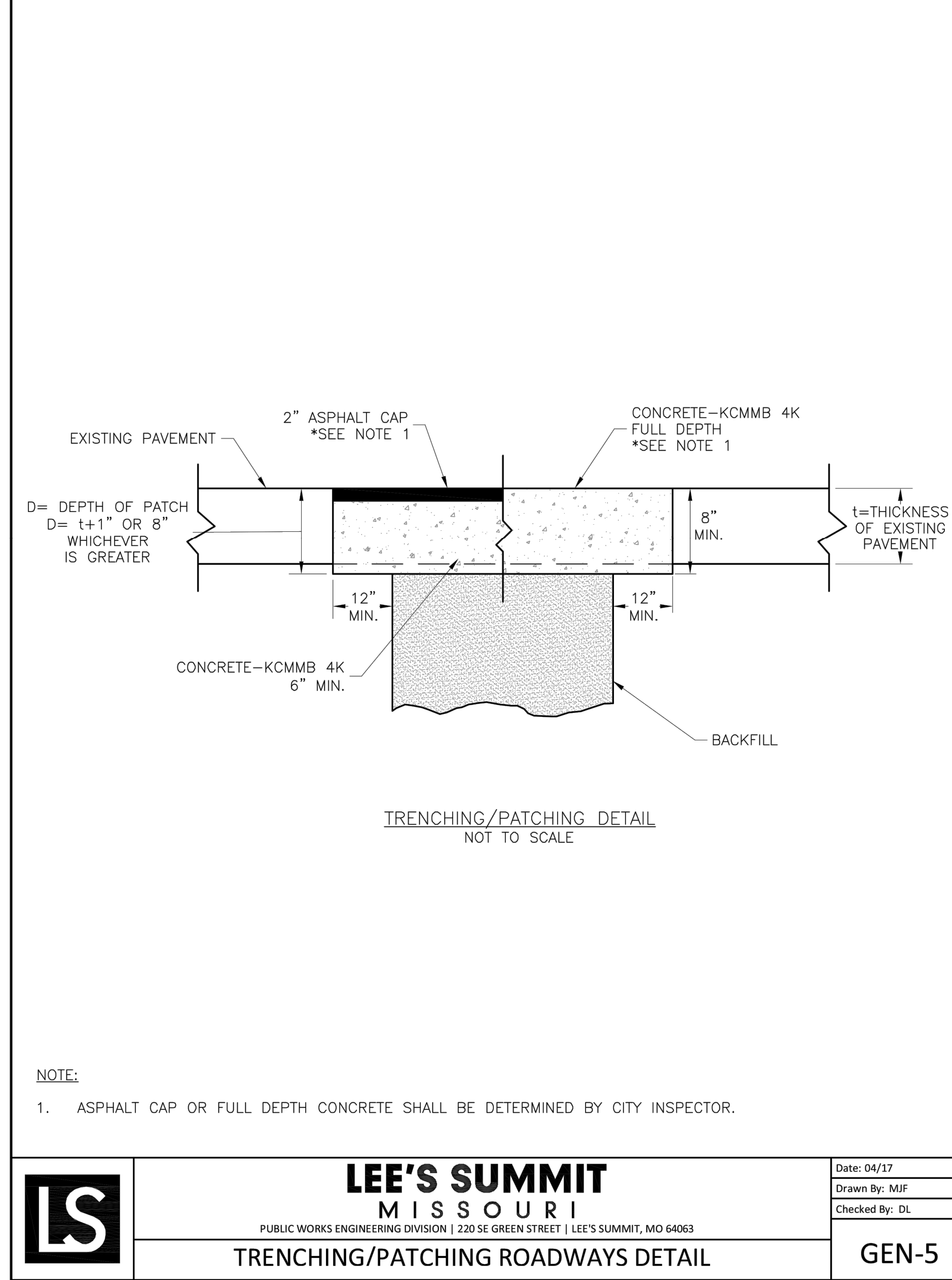
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		FILE: WAT-1
		Rev: 1/14
		Rev:



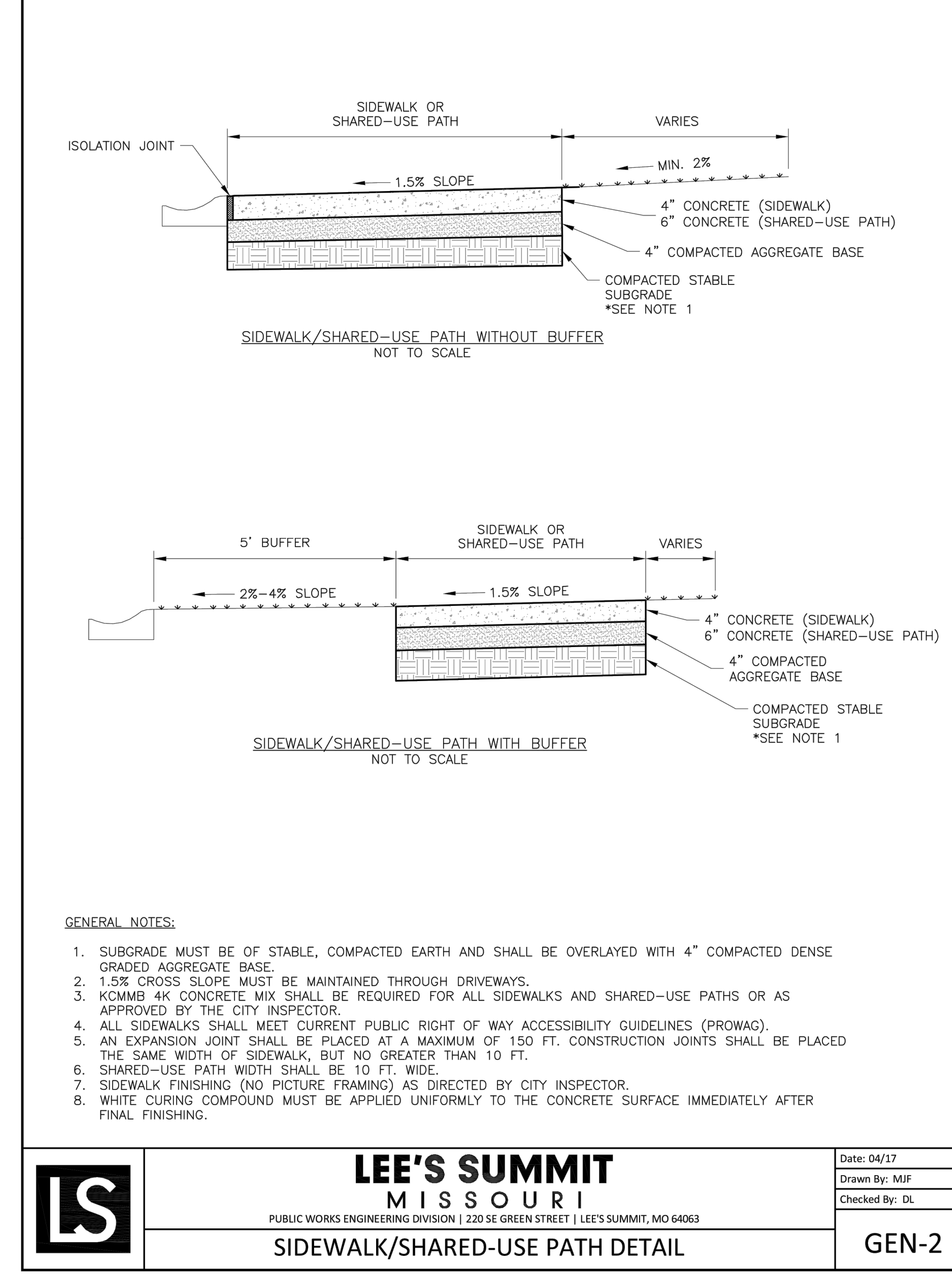
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		FILE: WAT-9
		Rev: 1/14
		Rev:



LS	LEE'S SUMMIT MISSOURI	Date: 04/17
	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Drawn By: MJF
	TRENCHING PLATE DETAIL	Checked By: DL
		GEN-6



LS	LEE'S SUMMIT MISSOURI	Date: 04/17
	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Drawn By: MJF
	TRENCHING/PATCHING ROADWAYS DETAIL	Checked By: DL
		GEN-5



LS	LEE'S SUMMIT MISSOURI	Date: 04/17
	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Drawn By: MJF
	SIDEWALK/SHARED-USE PATH DETAIL	Checked By: DL
		GEN-2

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RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020

LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64081
 TEL 816.381.1170 www.olsson.com

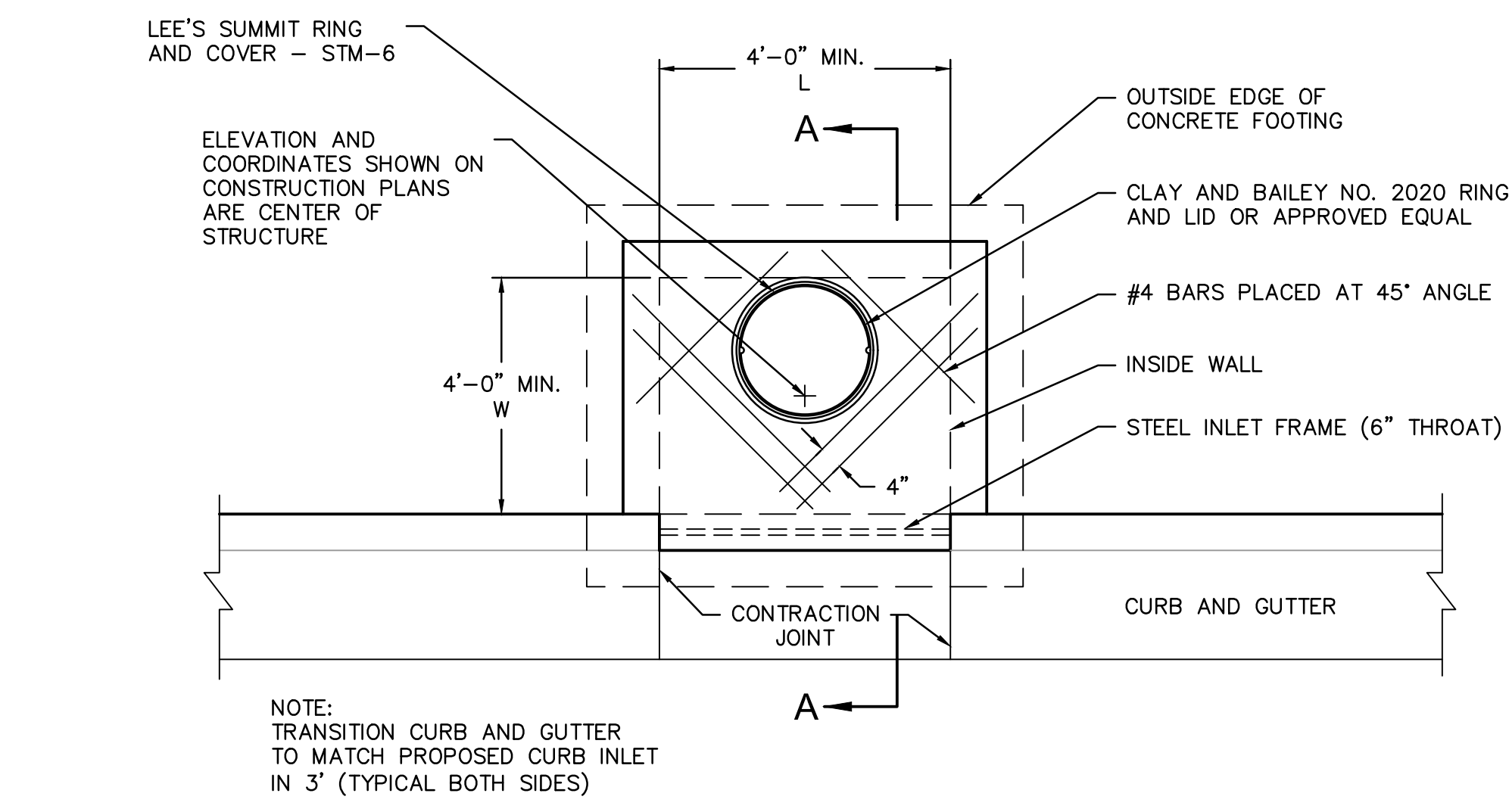
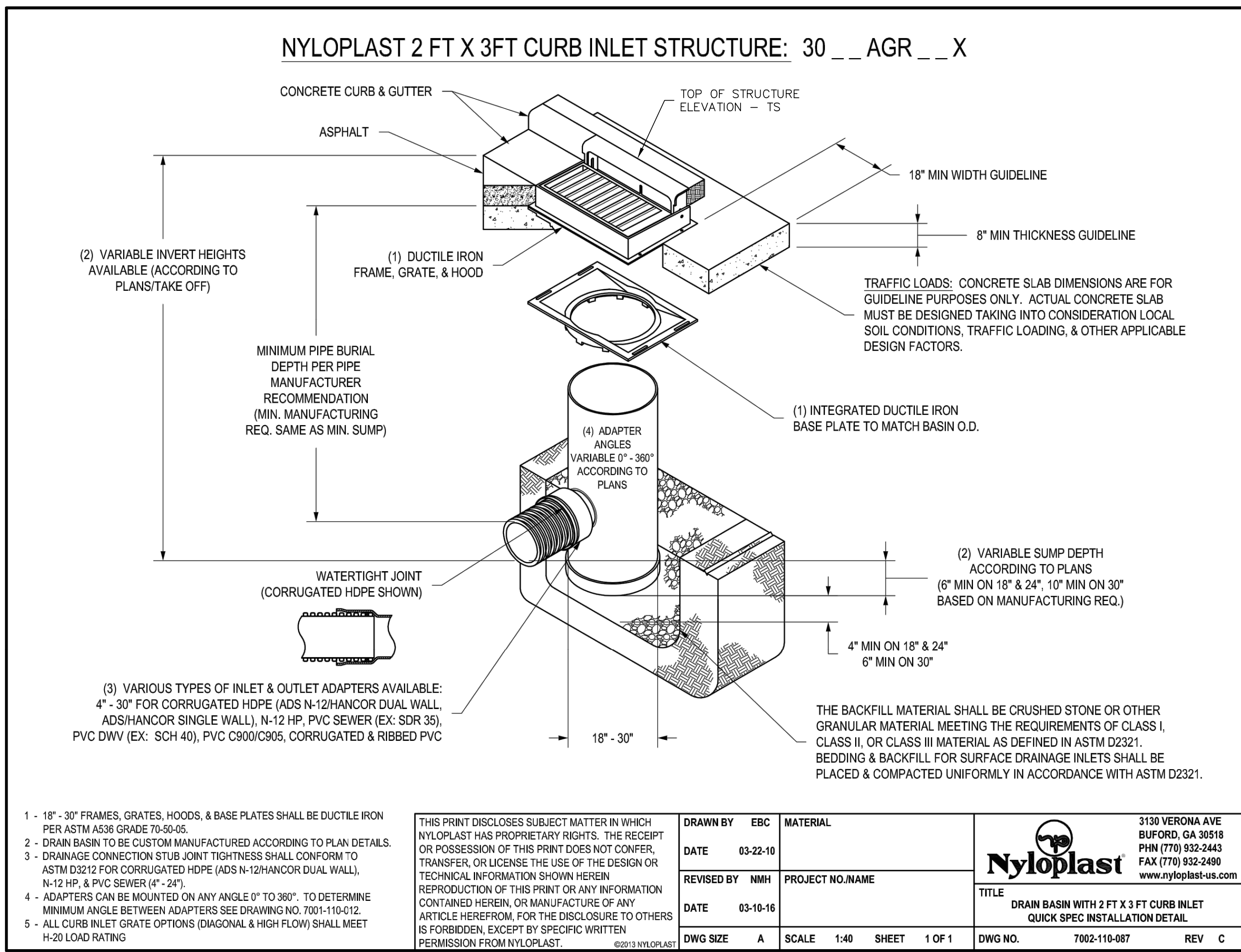
DLR Group
 6 DLR Group
 8020 DLR Group, Inc. a Harsco Corporation
 Missouri State Certificate of Authority #0099

olsson

Lee's Summit Middle School #4
 Development Services
 Missouri State Certificate of Authority #0099

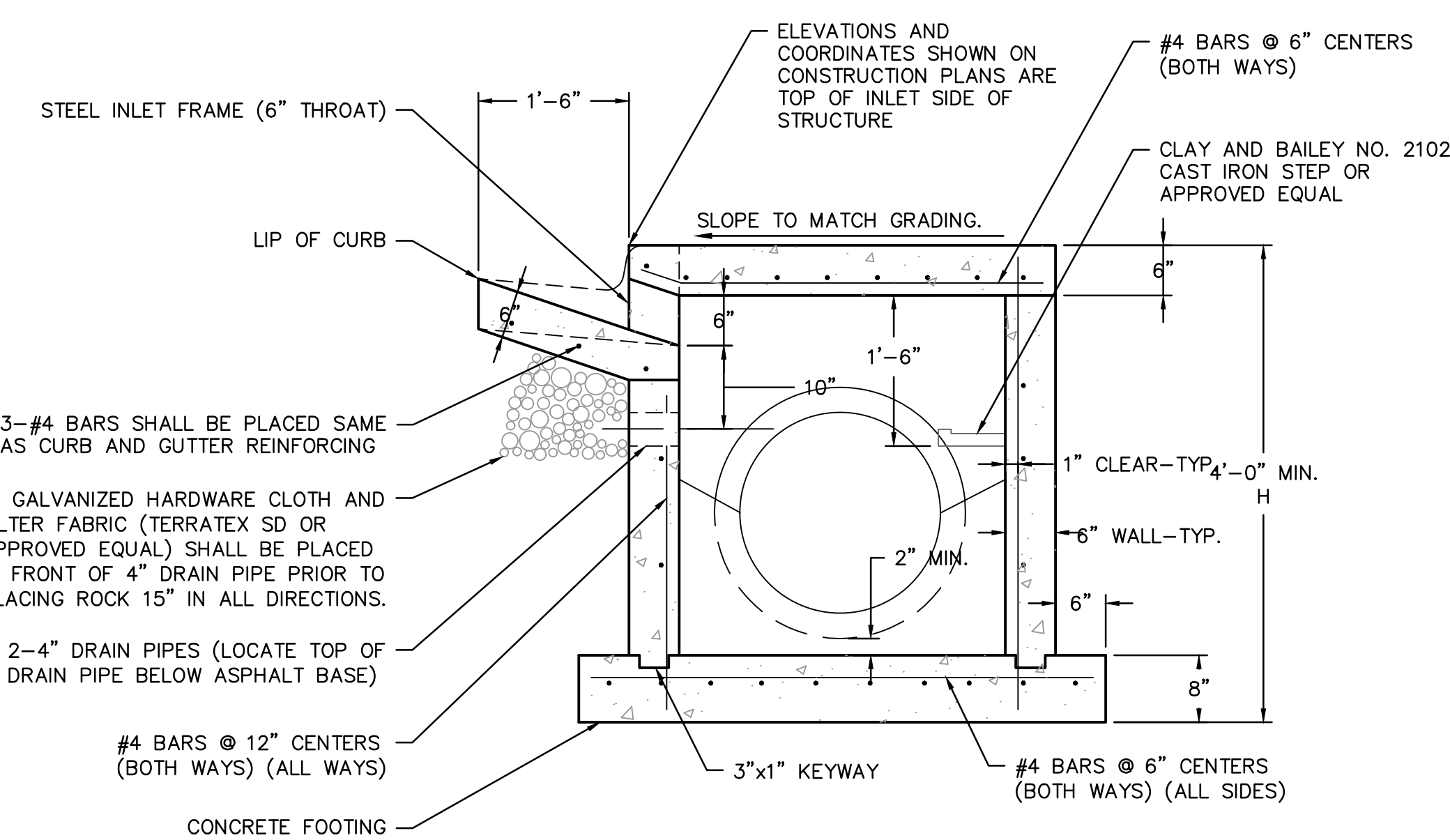
C1055

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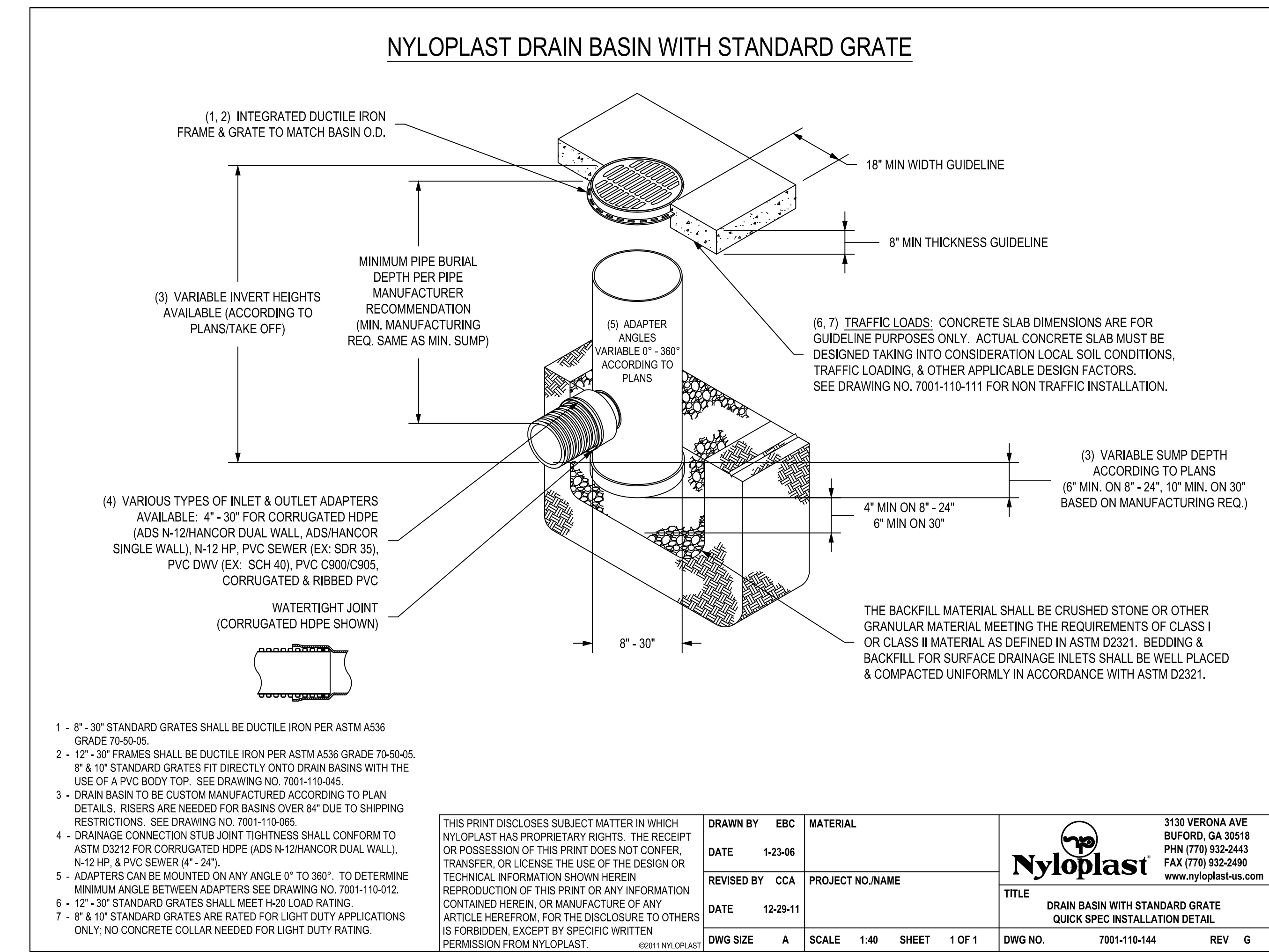
NON-SETBACK CURB INLET NOTES

1. USE CITY APPROVED CONCRETE THROUGHOUT.
2. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION, THE SECOND DIMENSION IS THE "W" DIMENSION.
3. FLOOR OF INLET SHALL BE SHAPED TO PROVIDE SMOOTH FLOW.
4. EXPANSION JOINTS SHALL BE EITHER HOT OR COLD Poured JOINT SEALING COMPOUND, OR PREMOLED EXPANSION JOINT FILLER.
5. STEEL INLET FRAME SPACERS SHALL BE PLACED AT EQUAL SPACINGS NOT TO EXCEED 4'-0".
6. 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.
7. BEVEL ALL EXPOSED EDGES WITH TRIANGULAR MOLDING.
8. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
9. ALL STORM SEWER STRUCTURES SHALL BE PRECAST. PRECAST SHOP DRAWINGS SHALL BE APPROVED BY THE DESIGN ENGINEER.
10. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
11. 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.
12. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
13. 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.
14. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
15. 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.
16. 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.
17. 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.
18. RCP CONNECTIONS TO PRECAST STRUCTURE SHALL MEET ALL CITY STANDARDS.
19. BACKFILL AROUND STRUCTURES SHALL BE COMPACTED AND SHALL BE OF THE MATERIAL SPECIFIED PER CITY STANDARDS.
20. NON-SETBACK CURB INLET TO BE USED ONLY WITH THE APPROVAL OF THE CITY ENGINEER.



SECTION A-A

NON-SETBACK CURB INLET NOT TO SCALE



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.

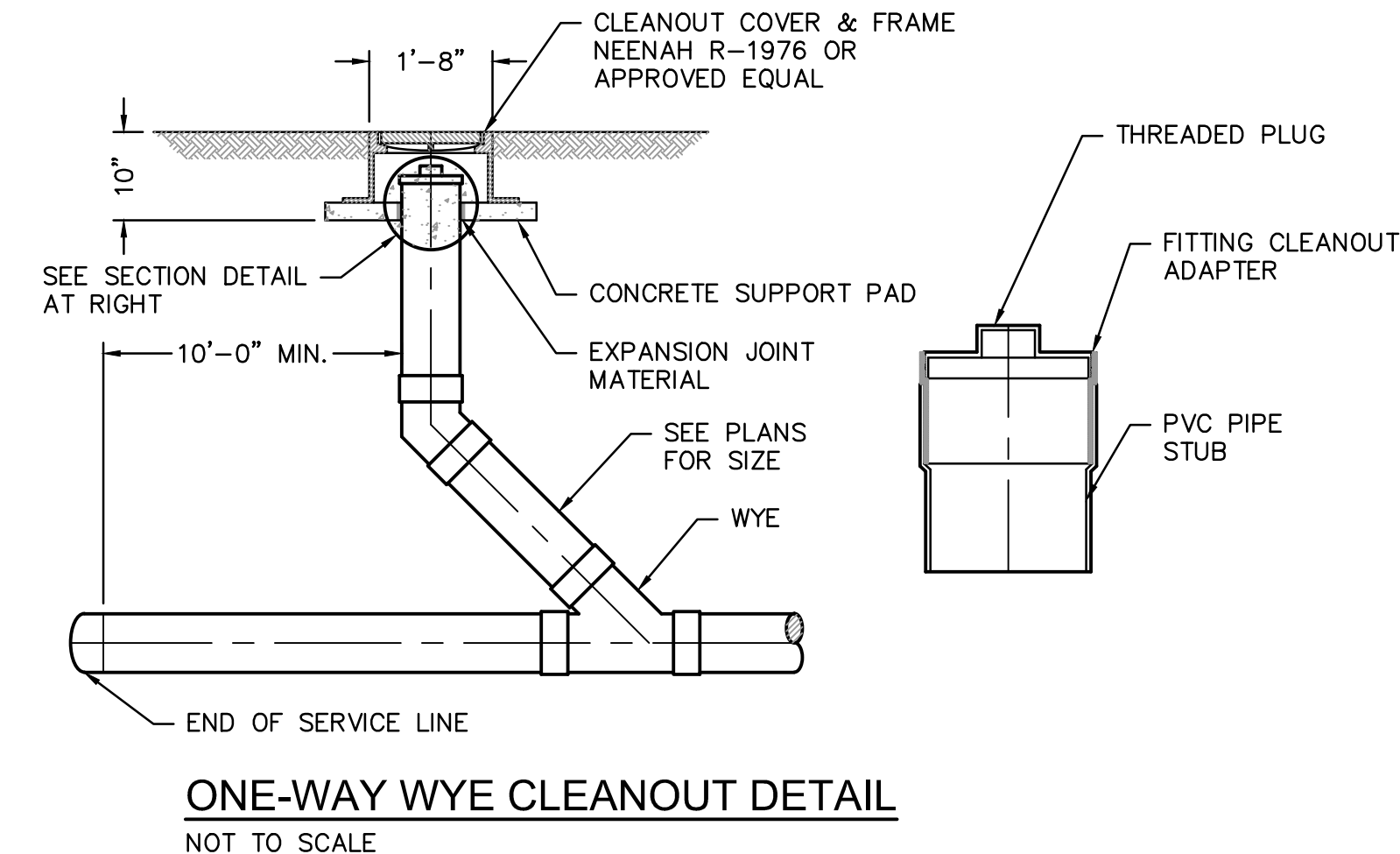
MATERIALS

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.

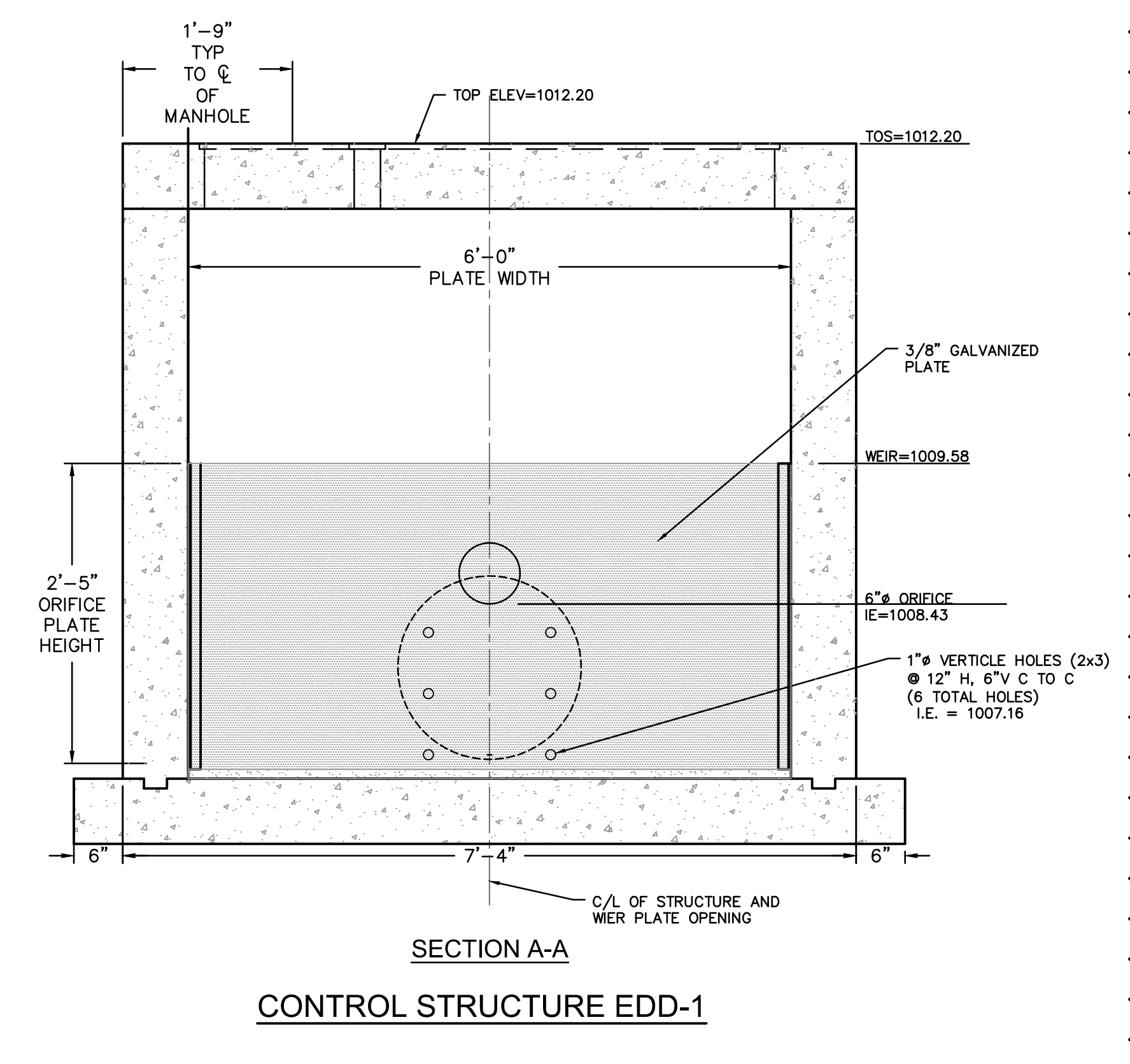
INSTALLATION

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.

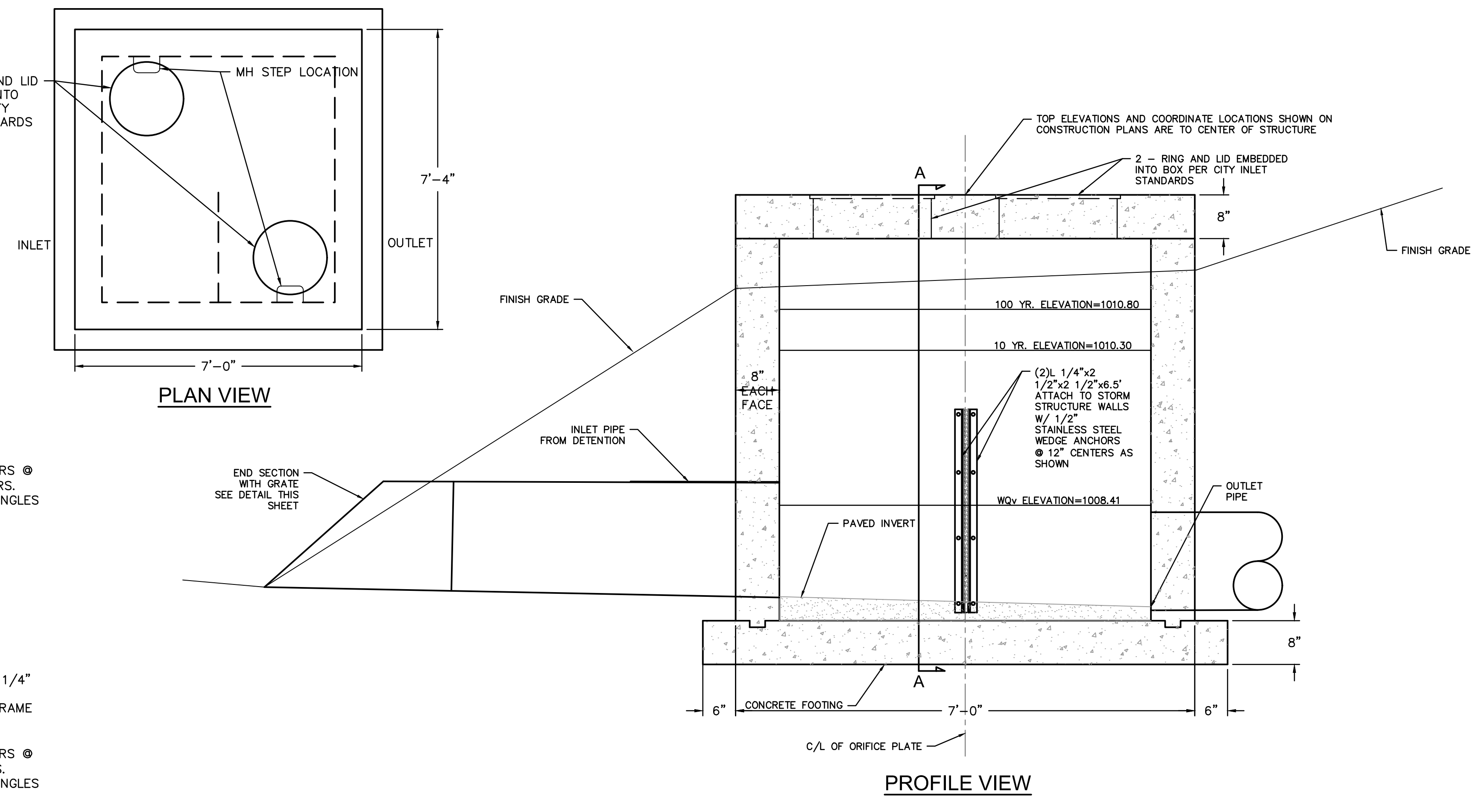


ONE-WAY WYE CLEANOUT DETAIL NOT TO SCALE

RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020

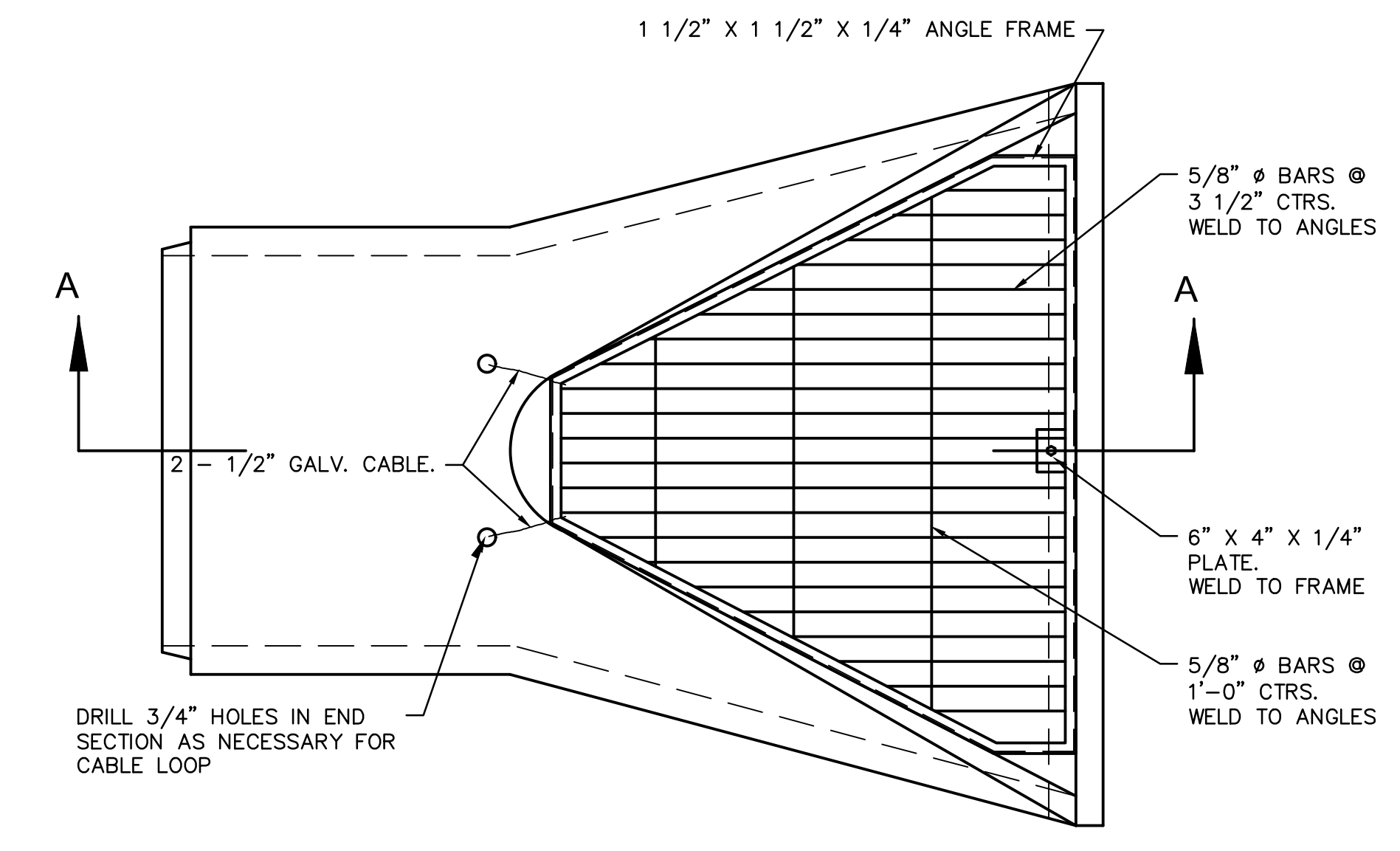


SECTION A-A
 CONTROL STRUCTURE EDD-1

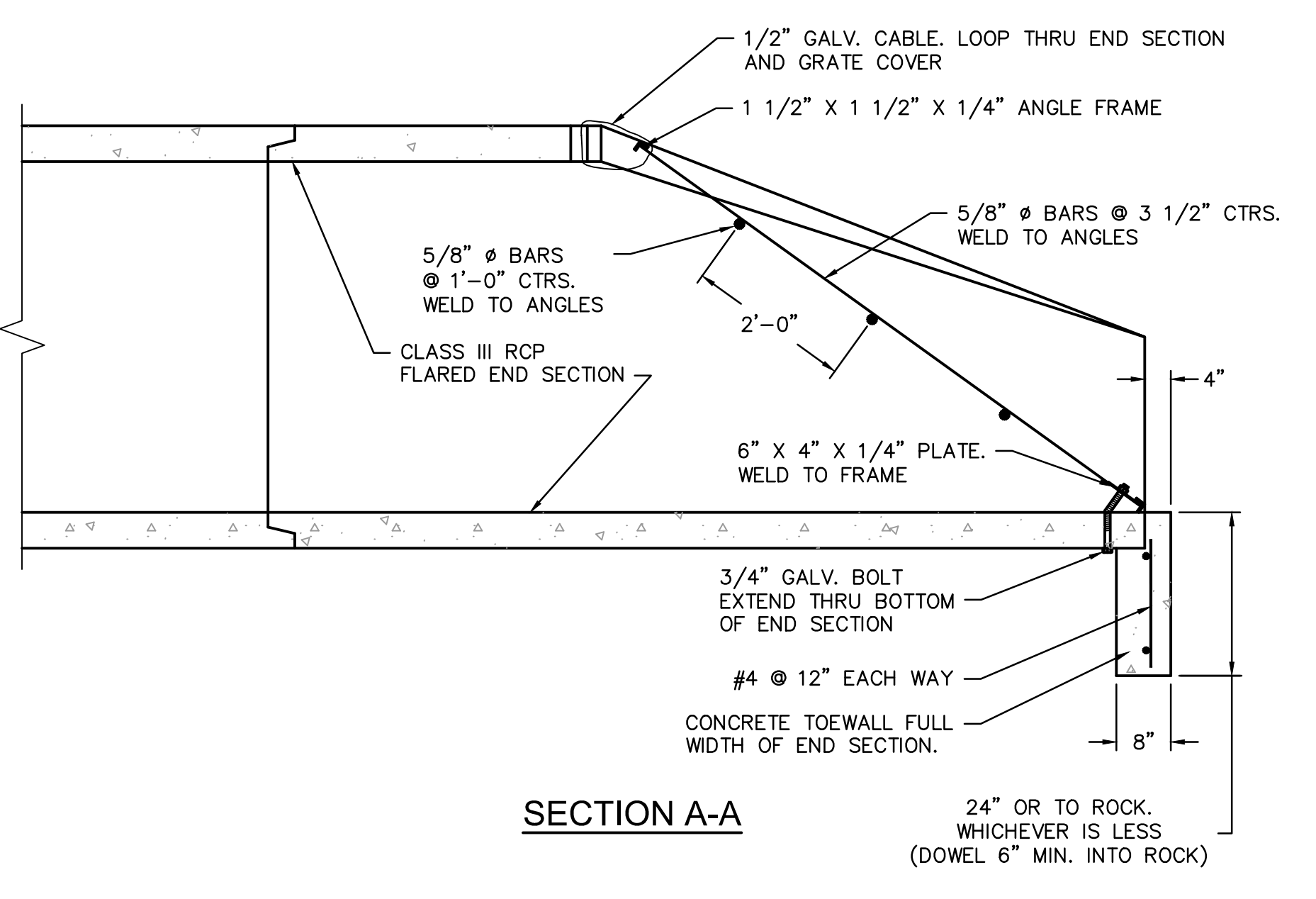


PROFILE VIEW

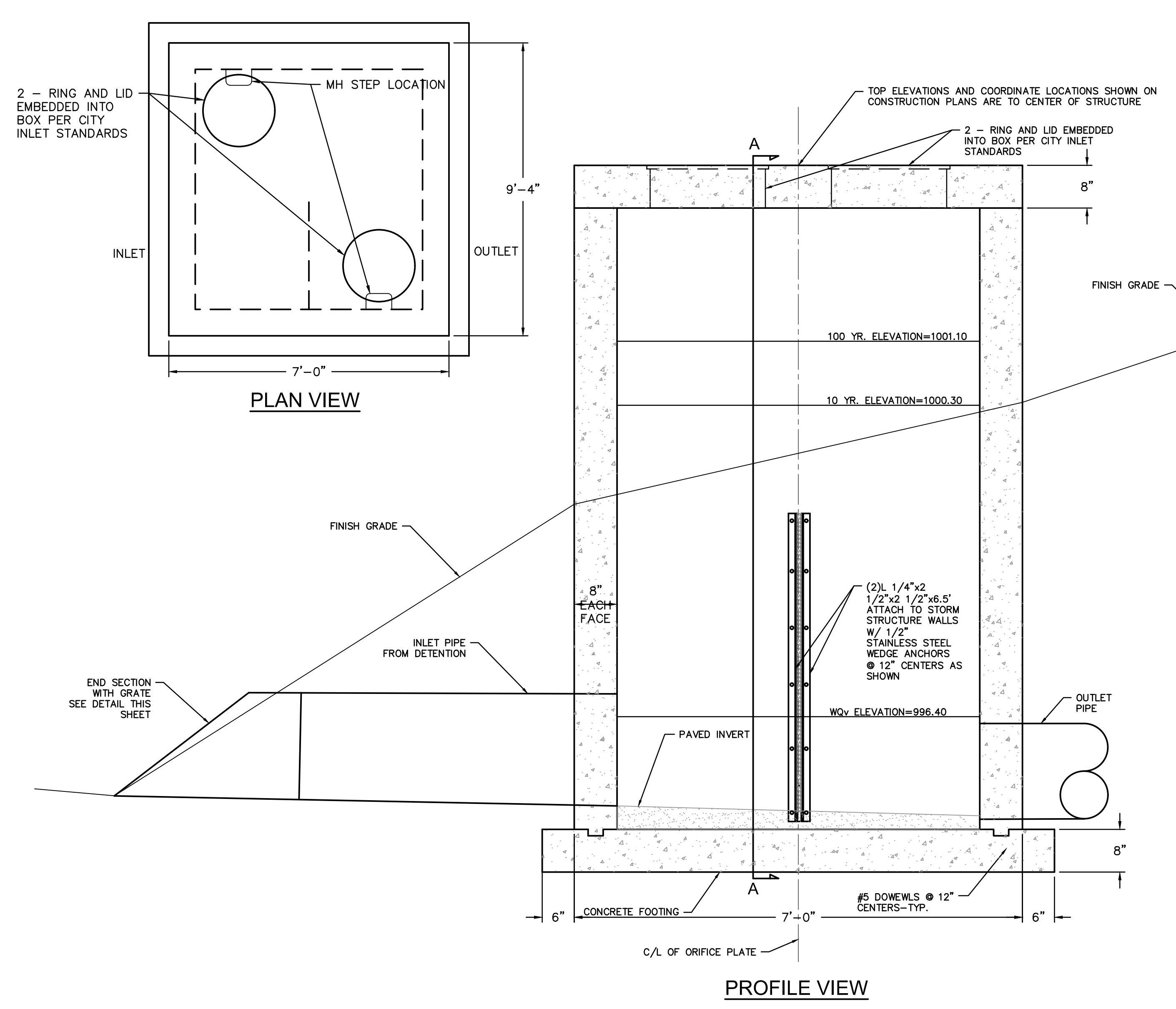
PLAN VIEW



PLANVIEW

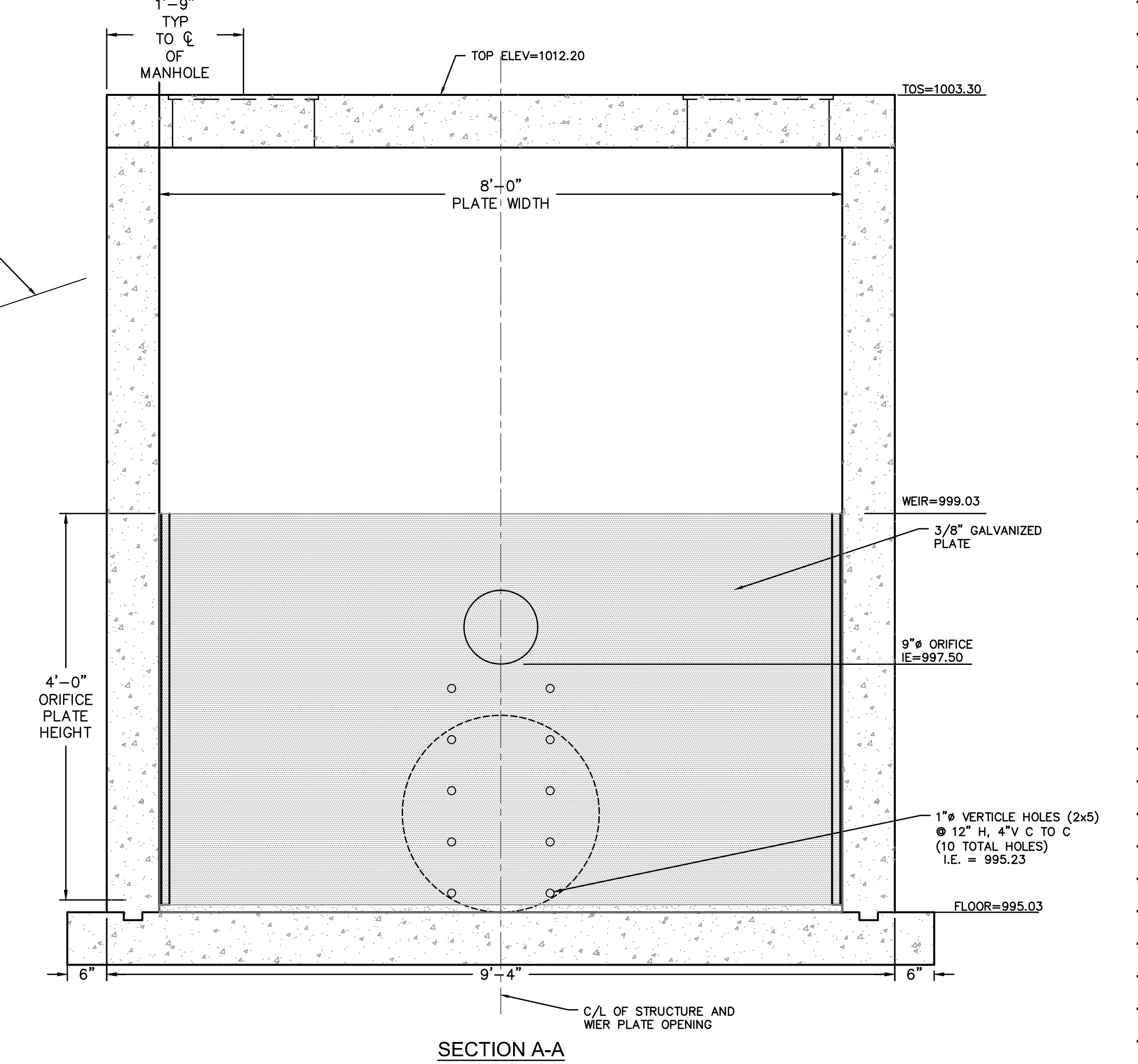


SECTION A-A



PROFILE VIEW

PLAN VIEW



SECTION A-A
 CONTROL STRUCTURE EDD-2

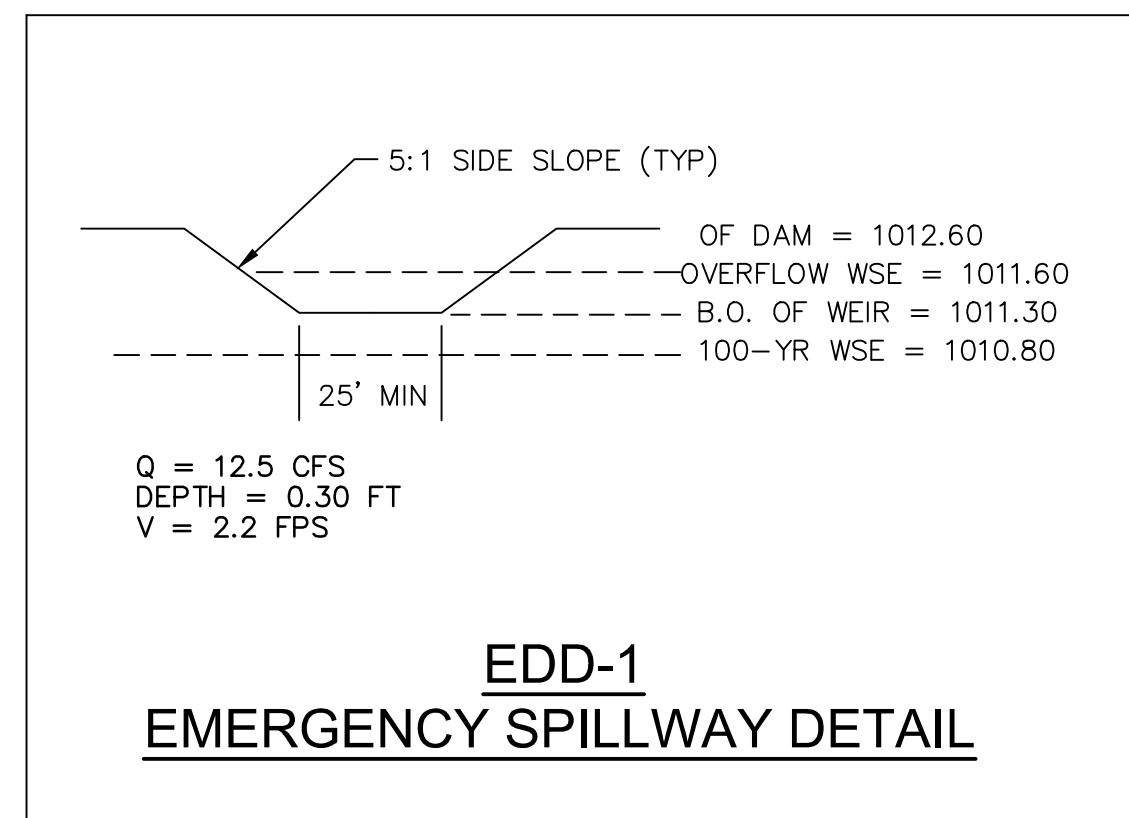
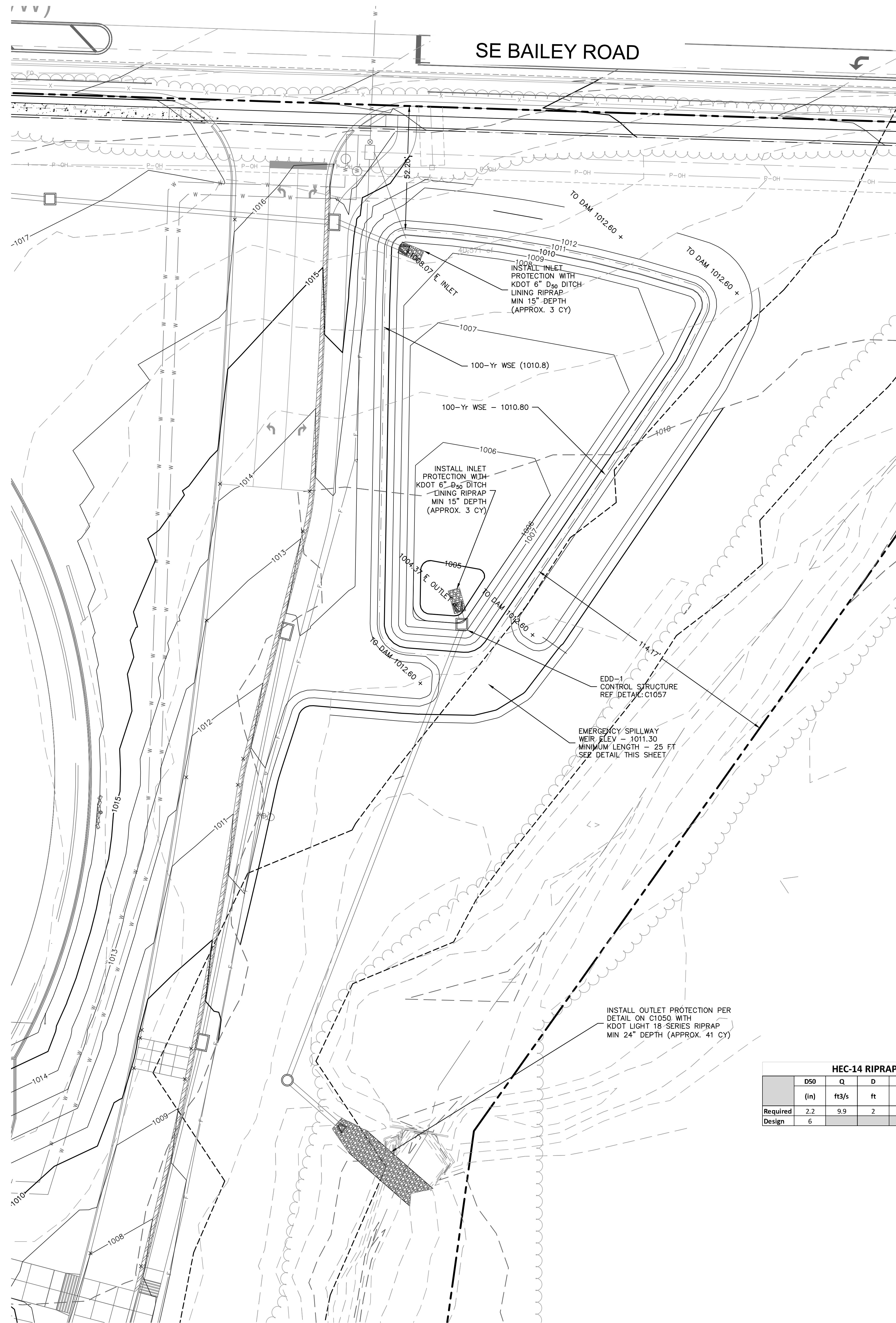
- ### END SECTION NOTES
1. GRATE COVER DETAIL SHALL BE ADJUSTED AS NECESSARY TO FIT END SECTION PROVIDED.
 2. MAXIMUM OPENING THRU END SECTION SHALL BE NO GREATER THAN 6". ADJUST DETAIL AS NECESSARY.
 3. ALL METAL SURFACES SHALL BE HOT DIP ZINC COATED IN ACCORDANCE WITH ASTM A-123.
 4. USE CITY APPROVED CONCRETE THROUGHOUT.
 5. ALL CONCRETE AND MATERIALS USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE GOVERNING BODY.
 6. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
 7. 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.
 8. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
 9. 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.
 10. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
 11. 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.

END SECTION TOE WALL WITH GRATE
 NOT TO SCALE

RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020

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**EDD-1
EMERGENCY SPILLWAY DETAIL**

LEGEND

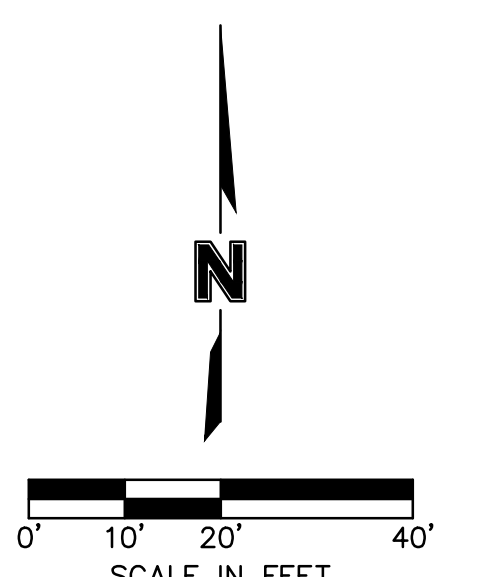
---	PROPERTY LINE
- - - -	EXISTING MAJOR CONTOUR
- - - -	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR

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

HEC-14 RIPRAP APRON SIZING FOR OUTFALL B-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 10.2	Scale x D50 (ft)	
Required	2.2	9.9	2	0.91	0.455	4	8	3.3	19.8	11.4
Design	6					24		24		12

RELEASE FOR CONSTRUCTION
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 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 11/19/2020



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 7301 West 133rd Street, Suite 200
 Overland Park, KS 66213-4750 TEL: 913.381.1170 www.olsson.com

STATE OF MISSOURI
 TERRY R. PARSONS
 NUMBER
 PE-2018010505
 11/12/2020
 PROFESSIONAL ENGINEER

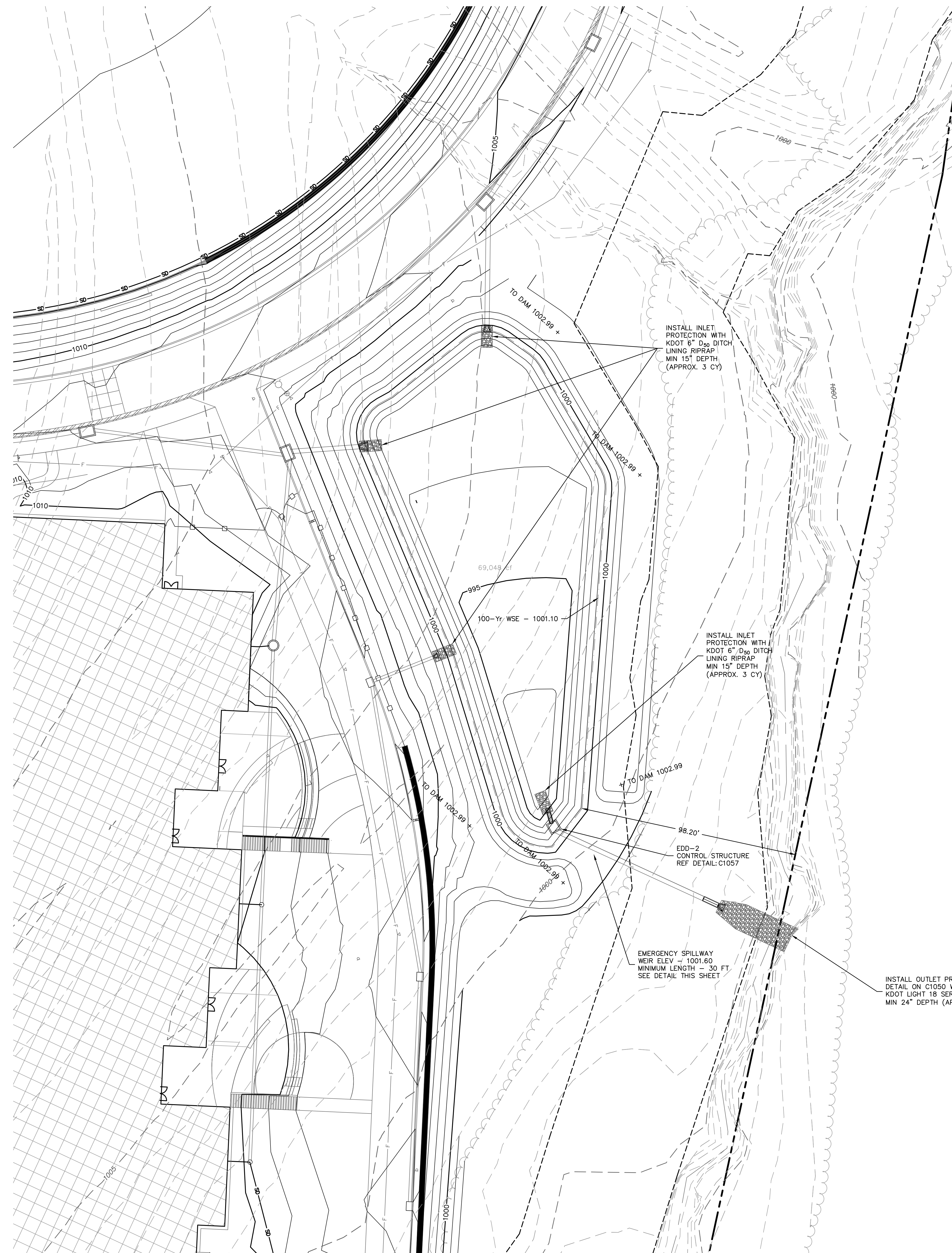
LEE'S SUMMIT MIDDLE SCHOOL #4
 LEE'S SUMMIT R-7 SCHOOL DISTRICT
 1001 SE BAILEY ROAD
 LEE'S SUMMIT, MO 64881

FINAL DEVELOPMENT PLAN
 08/28/20
 REVISIONS
 Δ REVISED PER CITY COMMENTS 10.01.20
 Δ REVISED PER CITY COMMENTS 11.04.20
 Δ REVISED PER CITY COMMENTS 11.12.20

13-20102-00

DETENTION BASIN DETAIL

C1059

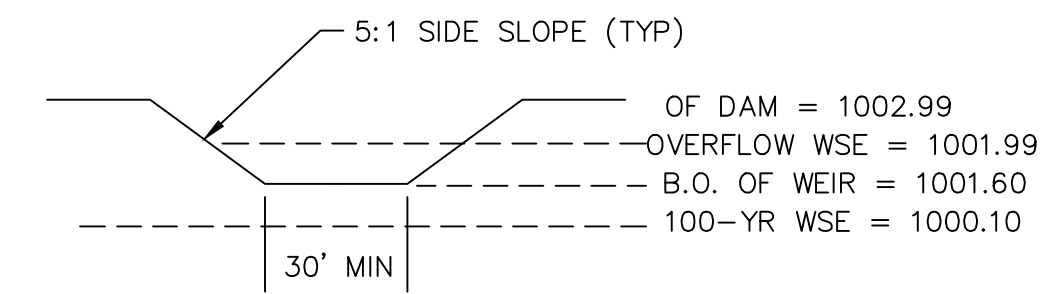


CONTRACTOR NOTE:

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LEGEND

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



Q = 37.8 CFS
 DEPTH = 0.30 FT
 V = 2.2 FPS

**EDD-2
 EMERGENCY SPILLWAY DETAIL**

INSTALL INLET PROTECTION WITH KDOT 6" D₅₀ DITCH LINING RIPRAP MIN 15' DEPTH (APPROX. 3 CY)

INSTALL INLET PROTECTION WITH KDOT 6" D₅₀ DITCH LINING RIPRAP MIN 15' DEPTH (APPROX. 3 CY)

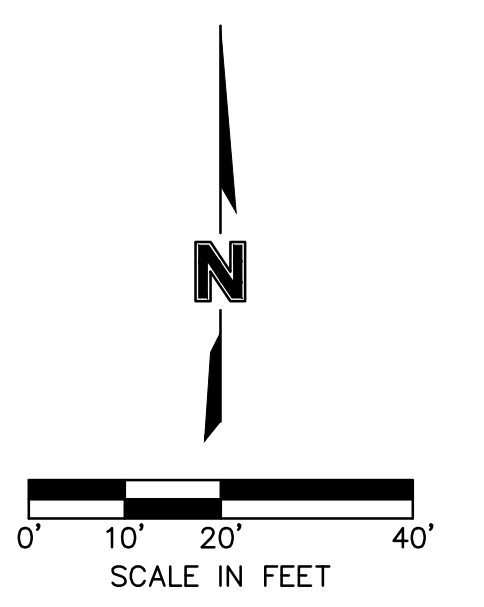
EDD-2 CONTROL STRUCTURE REF DETAIL: C1057

EMERGENCY SPILLWAY WEIR ELEV = 1001.60 MINIMUM LENGTH = 30 FT SEE DETAIL THIS SHEET

INSTALL OUTLET PROTECTION PER DETAIL ON C1050 WITH KDOT LIGHT 18 SERIES RIPRAP MIN 24" DEPTH (APPROX. 36 CY)

	D50	Q	D	TW	TW/D	APRON LENGTH	APRON DEPTH	Width at End of Apron
	(in)	ft ³ /s	ft	ft	0.4 Min 1.0 Max	Scale from Table 10.1 (ft)	Scale from Table 10.1 (ft)	Scale x 0.50 (ft)
Required	3.4	24.1	2	1.95	0.975	4	8	3.3
Design	6					19	24	12

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
 11/19/2020

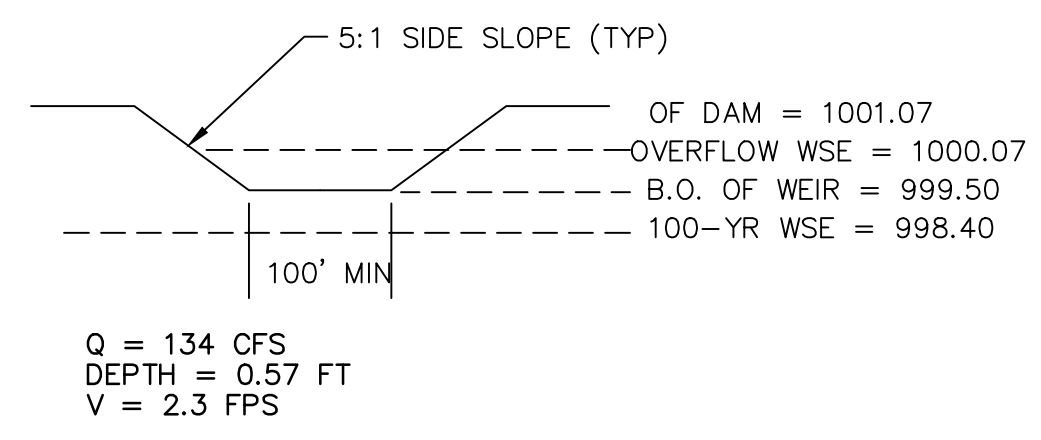


CONTRACTOR NOTE:

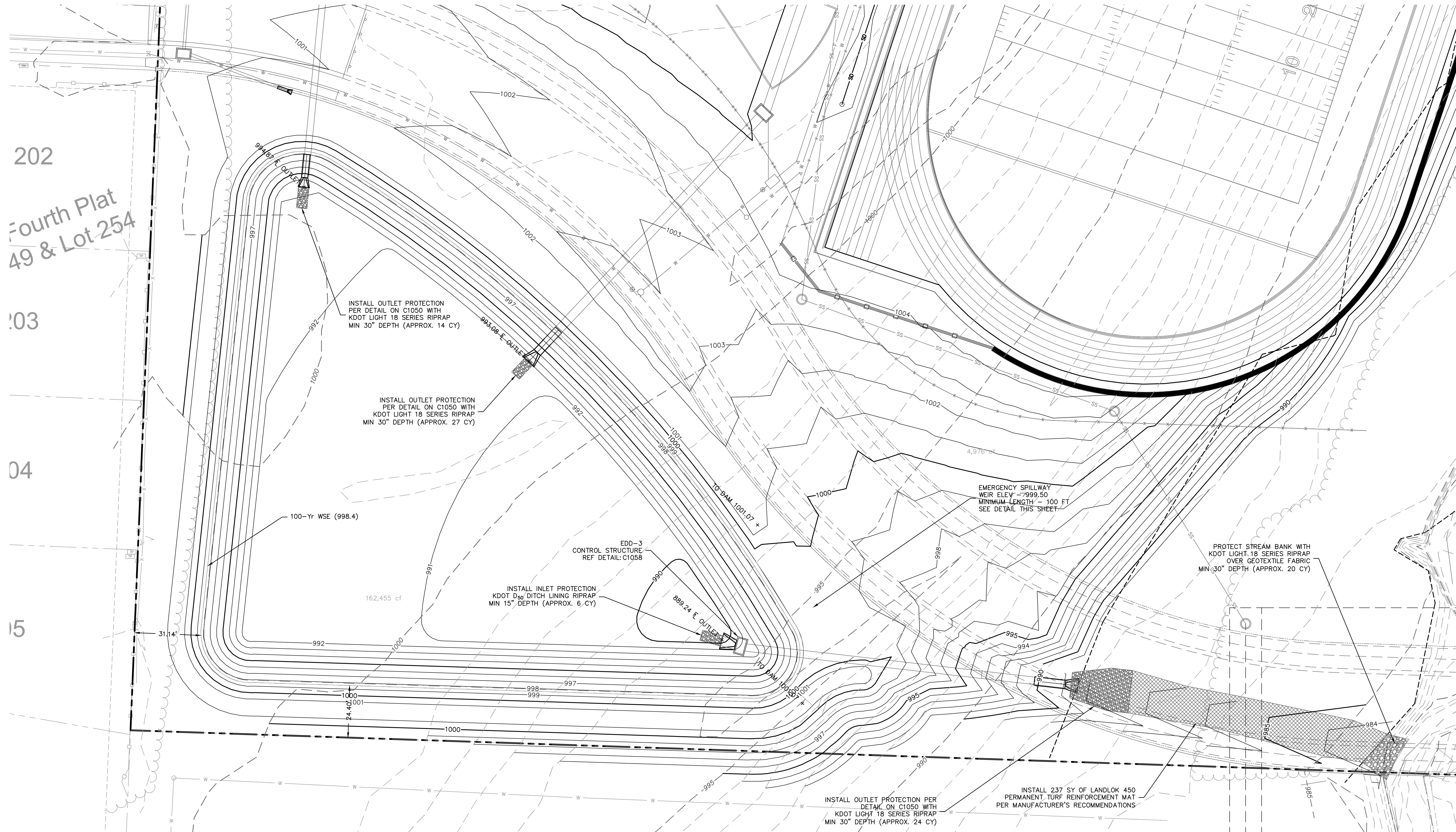
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LEGEND

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



**EDD-3
EMERGENCY SPILLWAY DETAIL**



202
Fourth Plat
49 & Lot 254

103

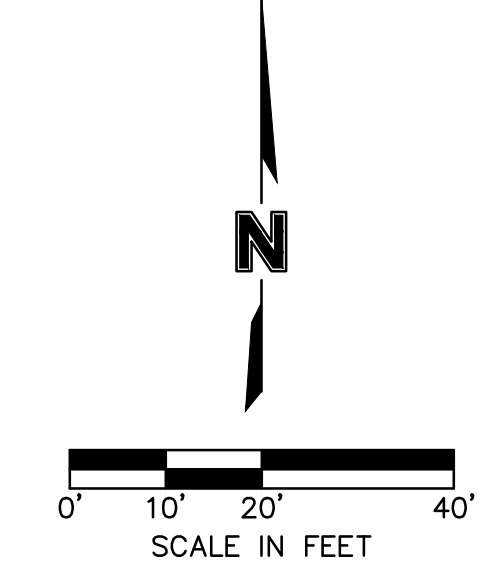
104

105

HEC-14 RIPRAP APRON SIZING FOR OUTFALL J-1

	D50 (in)	Q ft ³ /s	D ft	TW ft	TW/D 0.4 Min 1.0 Max	APRON LENGTH Scale from Table 10.1 ft	APRON DEPTH Scale from Table 10.1 ft	Width at End of Apron (ft)
Required	4.5	63	3.5	2.48	0.708571	4	14	29.7
Design	9					28	30	20

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LEE'S SUMMIT, MISSOURI
11/19/2020



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 USER: blimmich

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 3 REVISED PER CITY COMMENTS 11.12.20

13-20102-00
 DETENTION BASIN
 DETAIL

C1061