

SECTION 2, TOWNSHIP 47 N, RANGE 32 W
IN LEE'S SUMMIT, JACKSON COUNTY, MO

ASBUILT
03-24-2022

☐ NOT FOR CONSTRUCTION

☒ REVIEWED FOR CONSTRUCTION



Part of Lot 3B, WEST VILLAGE COMMERCIAL DEVELOPMENT, LOTS 3A AND 3B, a subdivision recorded as Instrument Number 19E0018413 in Book 1182 at Page 62 in Jackson County Recorder of Deeds Office located in the Northeast and Southeast Quarter of Section 2, Township 47 North, Range 32 West of the 5th Principal Meridian in Lee's Summit, Jackson County, Missouri being bounded and described by or under the direct supervision of Jason S Roudsbaugh, P.L.S. 2002014092 as follows: Commencing at the Southeast corner of said Southeast Quarter; thence North 87°47'03" West, on the South line of said Southeast Quarter 26,633.21 feet to the Southwest corner of said Southeast Quarter; thence North 03°05'41" East, on the West line of said Southeast Quarter, 1,326.36 feet to the Southwest corner of said Lot 3B, also being the Southwest corner of the North half said Southeast Quarter, also being a point on the Easterly line of STERLING HILLS 5TH PLAT, a subdivision in said Lee's Summit recorded as Instrument Number 11273788 in Book 154 at Page 88 in said Jackson County Recorder of Deeds Office, also being the Southwest corner of proposed WOODSIDE RIDGE 1st Plat, Lots 1 thru 143 inclusive, and Tracts A, B, C, D, E, F, G and H; thence North 03°05'41" East on said West line and said Easterly line, also being the West line of said Lot 3B, also being the Westerly line of proposed WOODSIDE RIDGE 1ST PLAT, LOTS 1 thru 143 inclusive, and Tracts A, B, C, D, E, F, G and H, 389.26 feet to the Point of Beginning of the tract of land to be herein described; thence leaving said proposed Westerly line, continuing North 03°05'41" East on said West lines and said Easterly lines, 936.61 feet to the Northeast corner of said STERLING HILLS 5TH PLAT, also being a point on the Easterly line of WINTERSET WOODS - 3RD PLAT, a subdivision in said Lee's Summit recorded as Instrument Number 200310002463 in Book 174 at Page 14 in said Jackson County Recorder of Deeds Office, also being the Northwest corner of said Southeast Quarter; thence North 03°26'14" East, on the said West line of said Lot 3B, said Easterly line and West line of said Northeast Quarter, 665.72 feet to the Northwest corner of the South half of the South half of said Northeast Quarter, also being the Northwest corner of said Lot 3B, also being the Northeast corner of the South half of the South half of said Northeast Quarter, also being a point on the Southerly line of the FOREST OF BROOKRIDGE ESTATES - THIRD PLAT, LOTS 117 - 133, a subdivision in said Lee's Summit recorded as Instrument Number 1802804 in Book 144 at Page 57 in said Jackson County Recorder of Deeds Office; thence North 87°37'42" East, along said Southerly line, also along the North line of said Lot 3B, also being the North line of said South Half of said South Half of said Northeast Quarter, also being the South line of the FOREST OF BROOKRIDGE ESTATES - THIRD PLAT, LOTS 117 - 133, a distance of 1,210.45 feet to the Southeast corner of said the FOREST OF BROOKRIDGE ESTATES - THIRD PLAT LOTS 117 - 133 and to a point on said proposed Westerly line; thence South 87°37'42" East on said North line of said South Half of said South Half, said North line of said Lot 3B, and said proposed Westerly line, 574.95 feet; thence leaving said North lines, South 20°32'36" West, along said proposed Westerly line, 229.10 feet; thence Westerly, along said proposed Westerly line, on a curve to the left, having an initial tangent along the North 69°27'24" West with a radius of 428.00 feet, a central angle of 00°42'29" and an arc distance of 5.25 feet; thence South 19°50'07" West, along said proposed Westerly line 178.42 feet; thence South 85°52'23" West, along said proposed Westerly line, 130.41 feet; thence South 70°59'24" West, along said proposed Westerly line, 137.47 feet; thence South 61°49'26" West, along said proposed Westerly line, 951.56 feet; thence South 21°24'31" West, along said proposed Westerly line, 135.10 feet; thence Westerly, along said proposed Westerly line, along a curve to the left having an initial tangent bearing the North 68°35'29" West with a radius of 275.00 feet, a central angle of 12°33'32" and an arc distance of 60.28 feet; thence South 08°50'59" West, along said proposed Westerly line, 50.00 feet; thence South 22°12'04" West, along said proposed Westerly line, 173.03 feet; thence North 75°51'31" West, along said proposed Westerly line, 21.43 feet; thence South 41°11'03" West, along said proposed Westerly line, 60.06 feet; thence South 29°55'27" West, along said proposed Westerly line, 306.11 feet; thence South 85°54'26" West, along said proposed Westerly line, 236.75 feet to the Point of Beginning. Containing 1,514,368 square feet or 34.77 acres, more or less.

BENCHMARK

BMK #5 CHISELED SQUARE ON THE S.E. CORNER OF A CONCRETE PAD FOR A TRAFFIC SIGNAL BOX AT THE S.W. CORNER OF PRYOR ROAD AND O'BRIEN ROAD.

ELEVATION: 979.24

OLSSON HAS BEEN RETAINED TO PROVIDE AS-BUILT DRAWINGS FOR THIS PROJECT.


JULIE E SELLERS, P.E.
CIVIL ENGINEER
MO# 2017000367

4/12/2023

DATE

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

[illegible]

COVER SHEET
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

drawn by: C.S.M
checked by: S.M.S
designed by: C.S.M
QA/QC by: J.E.S
project no.: C18-1140
date: 2020.06.09

SHEET
C101

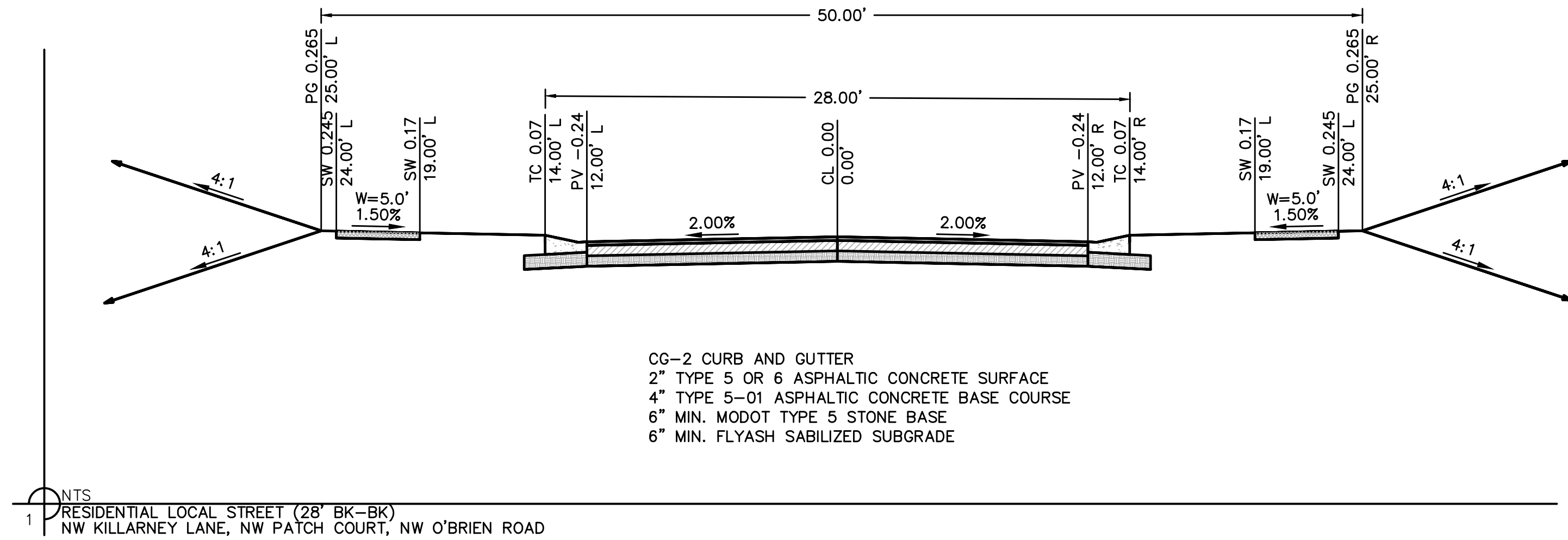
USER: ssaylor

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilts\Sheets\GNCV\Street & Storm\C_TTL01_C181140.dwg

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Oct 17, 2022 12:36pm

MO Certificate of Authority #:001592
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.361.1177 www.olsson.com

11. P.O.S= PROPOSED OPEN SPACE.



USER: ssaylor

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilts\Sheets\GNCV\Street & Storm\C_GEN01_C181140.dwg
DATE: Oct 17, 2022 12:36pm

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	AS-BUILT
SITE				
1	EXCAVATION	C.Y.	52613	
2	EMBANKMENT	C.Y.	83489	
STREET				
3	EXCAVATION	C.Y.	8049	
4	EMBANKMENT	C.Y.	7968	
5	8" ASPHALT PAVEMENT	S.Y.	7373	
6	STABILIZED SUBGRADE	S.Y.	9028	
7	8" MoDOT TYPE 5 AGGREGATE	S.Y.	9028	
8	CONCRETE CURB & GUTTER (CG-2)	L.F.	4747.02	
9	ADA HANDICAP RAMP	EA.	6	
10	STOP SIGNS	EA.	3	
11	STREET NAME SIGNS	EA.	4	
12	SIGN POSTS	EA.	1	
13	MILL & OVERLAY	S.Y.	40	
14	5' CONCRETE SIDEWALK	L.F.	55.00	
15	4" COMPACTED AGGREGATE FOR SIDEWALK	S.Y.	31.00	
16	SEEDING, FERTILIZER, OR MULCH	AC.	19.61	
17	TOPSOIL	C.Y.	13688.61	
STORM				
18	STD. CURB INLET (5'x3' INSIDE)	EA.	12	12
19	STD. MANHOLE (4' DIA. INSIDE)	EA.	7	8
20	STD. FIELD INLET (4'x4' INSIDE)	EA.	2	2
21	15" HPDE	L.F.	1316.46	1273.78
22	18" HDPE	L.F.	582.72	467.81
23	18" RCP	L.F.	181.03	188.31
24	24" HDPE	L.F.	203.67	267.74
25	15" HDPE END SECTION	EA.	2	2
26	18" HDPE END SECTION	EA.	5	5
27	24" HDPE END SECTION	EA.	1	1
28	RIP-RAP	S.Y.	162	125.87

LEGEND	
-ECTVGH-	EXISTING CABLE TV, OVERHEAD
-ECTV-	EXISTING CABLE TV, UNDERGROUND
-CTVGH-	PROPOSED CABLE TV, OVERHEAD
-CTV-	PROPOSED CABLE TV, UNDERGROUND
-FCTVGH-	FUTURE CABLE TV, OVERHEAD
-FCTV-	FUTURE CABLE TV, UNDERGROUND
-FEOGH-	EXISTING FIBER OPTIC, OVERHEAD
-FEO-	EXISTING FIBER OPTIC, UNDERGROUND
-FOGH-	PROPOSED FIBER OPTIC, OVERHEAD
-FO-	PROPOSED FIBER OPTIC, UNDERGROUND
-FEOGH-	FUTURE FIBER OPTIC, OVERHEAD
-FEO-	FUTURE FIBER OPTIC, UNDERGROUND
-FPF-	EXISTING FIRE PROTECTION SYSTEM LINE
-FP-	PROPOSED FIRE PROTECTION SYSTEM LINE
-FFP-	FUTURE FIRE PROTECTION SYSTEM LINE
-CFL-	EXISTING FUEL LINE
-FL-	PROPOSED FUEL LINE
-FFL-	FUTURE FUEL LINE
-EG-	EXISTING NATURAL GAS LINE
-G-	PROPOSED NATURAL GAS LINE
-FG-	FUTURE NATURAL GAS LINE
-ETELGH-	EXISTING TELEPHONE LINE, OVERHEAD
-ETEL-	EXISTING TELEPHONE LINE, UNDERGROUND
-TELGH-	PROPOSED TELEPHONE LINE, OVERHEAD
-TEL-	PROPOSED TELEPHONE LINE, UNDERGROUND
-FFTELGH-	FUTURE TELEPHONE LINE, OVERHEAD
-FFTEL-	FUTURE TELEPHONE LINE, UNDERGROUND
-EEOH-	EXISTING POWER/ELECTRIC LINE, OVERHEAD
-EE-	EXISTING POWER/ELECTRIC LINE, UNDERGROUND
-EOH-	PROPOSED POWER/ELECTRIC LINE, OVERHEAD
-E-	PROPOSED POWER/ELECTRIC LINE, UNDERGROUND
-FFEOH-	FUTURE POWER/ELECTRIC LINE, OVERHEAD
-FFE-	FUTURE POWER/ELECTRIC LINE, UNDERGROUND
-ESS-	EXISTING SANITARY SEWER
-SS-	PROPOSED SANITARY SEWER
-FSS-	FUTURE SANITARY SEWER
-ESL-	EXISTING STEAM LINE
-SL-	PROPOSED STEAM LINE
-FSL-	FUTURE STEAM LINE
-EST-	EXISTING STORM SEWER
-ST-	PROPOSED STORM SEWER
-FST-	FUTURE STORM SEWER
-EW-	EXISTING WATER LINE
-W-	PROPOSED WATER LINE
-FW-	FUTURE WATER LINE

ASBUILT
03-24-2022

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

ALL NOTES REFERENCED ON THIS PLAN SHEET MAY HAVE APPLICATIONS TO EVERY FACET OF THE CONSTRUCTION PLANS. THE NOTE HEADINGS OR TITLES ARE TO BE USED AS A GENERAL GUIDE TO APPLICABLE SITUATIONS.

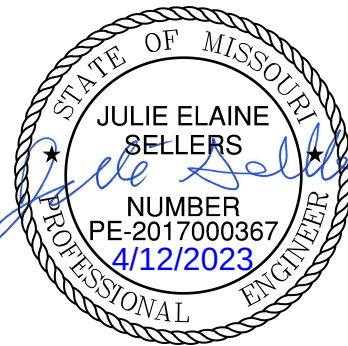
GENERAL NOTES STREET & STORM SEWER PLANS

OODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT MO

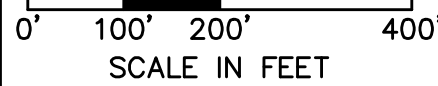
drawn by: _____ C.S.M
checked by: _____ S.M.S
designed by: _____ C.S.M
QA/QC by: _____ J.E.S
project no.: _____ C18-1140
date: _____ 2020.07.10

SHEET
C102

[illegible]

olson

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TEL 816 361 1177
www.djssson.com



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Record Drawings**

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NOT ASBUILT

MASTER GENERAL LAYOUT
STREET & STORM SEWER PLANS

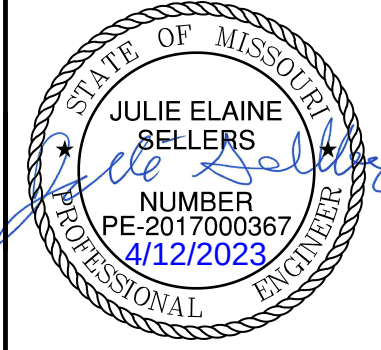
WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

NO. REV.	DATE
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REVISIONS DESCRIPTION

BY



SHEET
C103

drawn by: C.S.M
checked by: S.M.S
designed by: C.S.M
QA/QC by: J.E.S
project no.: C18-1140
date: 2020.07.10

2020

REVISIONS

BY

MO Certificate of Authority #001592
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116

olsson

TEL 816 361.1177 www.olsson.com



KEY MAP

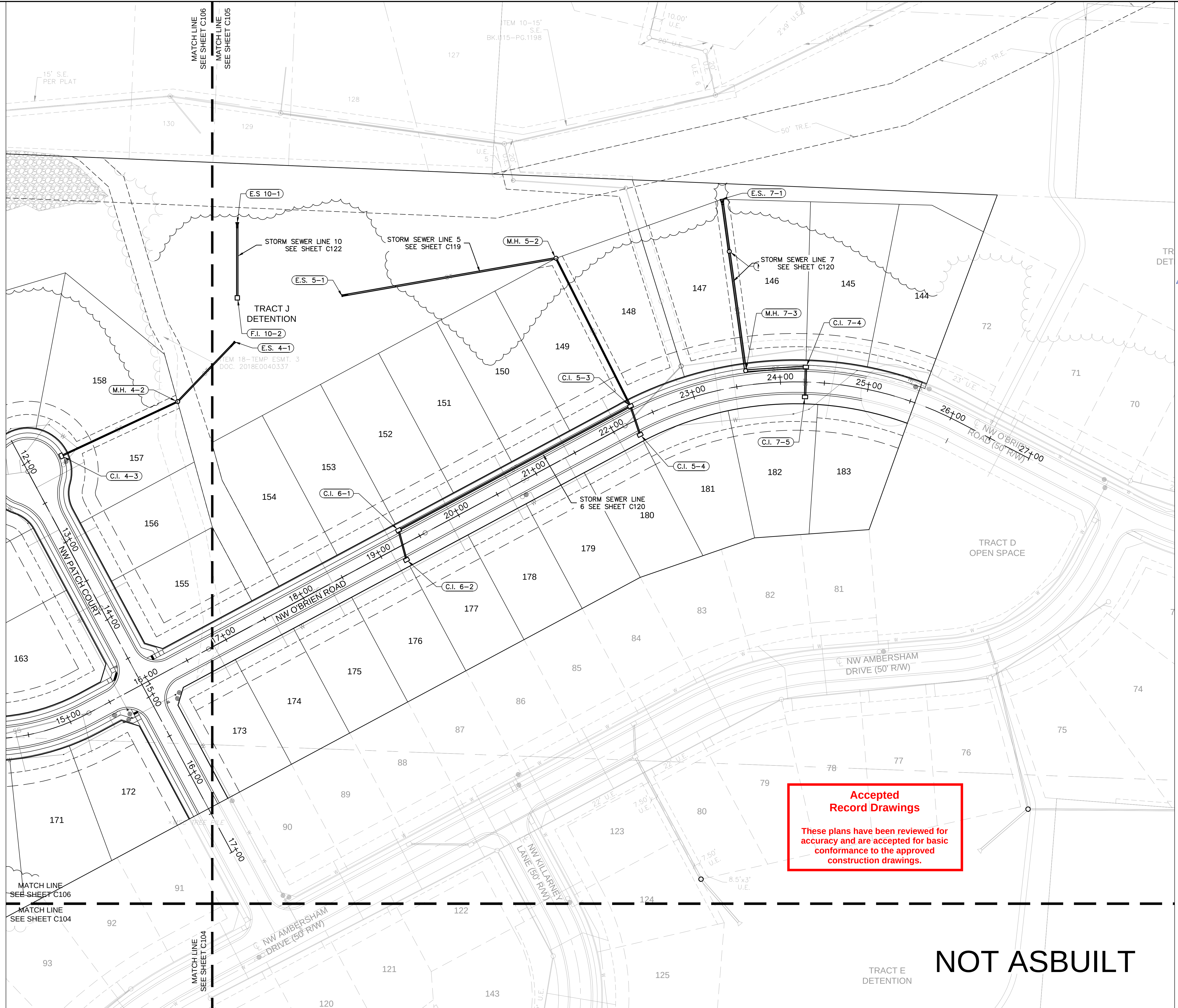


SCALE IN FEET

USER: ssaylor

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DATE: Oct 17 2022 12:37pm



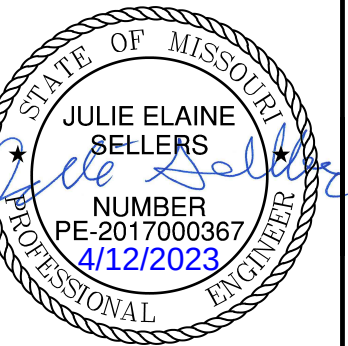
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NOT ASBUILT

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人

REVISIONS DESCRIPTION

DATE _____

RE

GENERAL LAYOUT STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

2020

LEE'S SUMMIT, MO

Drawn by: C.S.M
 Checked by: S.M.S
 Designed by: C.S.M
 A/QC by: J.E.S
 Project no.: C18-1140
 Date: 2020.07.10

SHEET
C106

USER: ssaylor

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilt\Sheets\GNCV\Street & Storm\C-GRD02-C181140.dwg
DATE: Oct 17, 2022 12:35pm



KEY MAP

GENERAL NOTES:

- CONTRACTOR SHALL ADHERE TO THE "DESIGN AND CONSTRUCTION MANUAL" SECTION 2100 AS ADOPTED BY THE CITY OF LEE'S SUMMIT (LATEST EDITION), FOR EXCAVATION AND EMBANKMENT WORK WITHIN THE PROPOSED RIGHT-OF-WAY.
- AREAS OF CONSTRUCTION SHALL BE STRIPPED OF ALL VEGETATION, ORGANIC MATTER AND TOPSOIL TO A DEPTH AS RECOMMENDED BY GEOTECHNICAL ENGINEER AND OR TESTING AGENCY. SOILS REMOVED DURING SITE STRIPPING SHOULD BE EVALUATED TO DETERMINE IF PORTIONS OF THE TOPSOIL STRATUM MAY BE UTILIZED AS STRUCTURAL FILL WITHIN PAVEMENT AREAS. ANY MATERIAL NOT DEEMED AS SUITABLE FILL MATERIAL BY THE GEOTECHNICAL ENGINEER AND OR TESTING AGENCY SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR AT HIS EXPENSE.
- ALL EMBANKMENT OUTSIDE OF RIGHT-OF-WAY SHOULD BE PLACED IN CONTROLLED LIFTS HAVING A MAXIMUM LOOSE LIFT THICKNESS OF 8". EMBANKMENT SHOULD BE COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698 (STANDARD PROCTOR COMPACTION). MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE WITHIN A RANGE OF -0 TO +4 PERCENT OF OPTIMUM MOISTURE CONTENT.

LEGEND	
-100-	EXISTING INDEX CONTOURS
-100	EXISTING INTERMEDIATE CONTOURS
-100	PROPOSED INDEX CONTOURS
-100	PROPOSED INTERMEDIATE CONTOURS

EARTHWORK QUANTITIES		
LOCATION	CUT (C.Y.)	FILL (C.Y.)
STREET	8049	7968
SITE	52613	83489
TOTAL	60662	91457

EARTHWORK QUANTITIES NOTES:

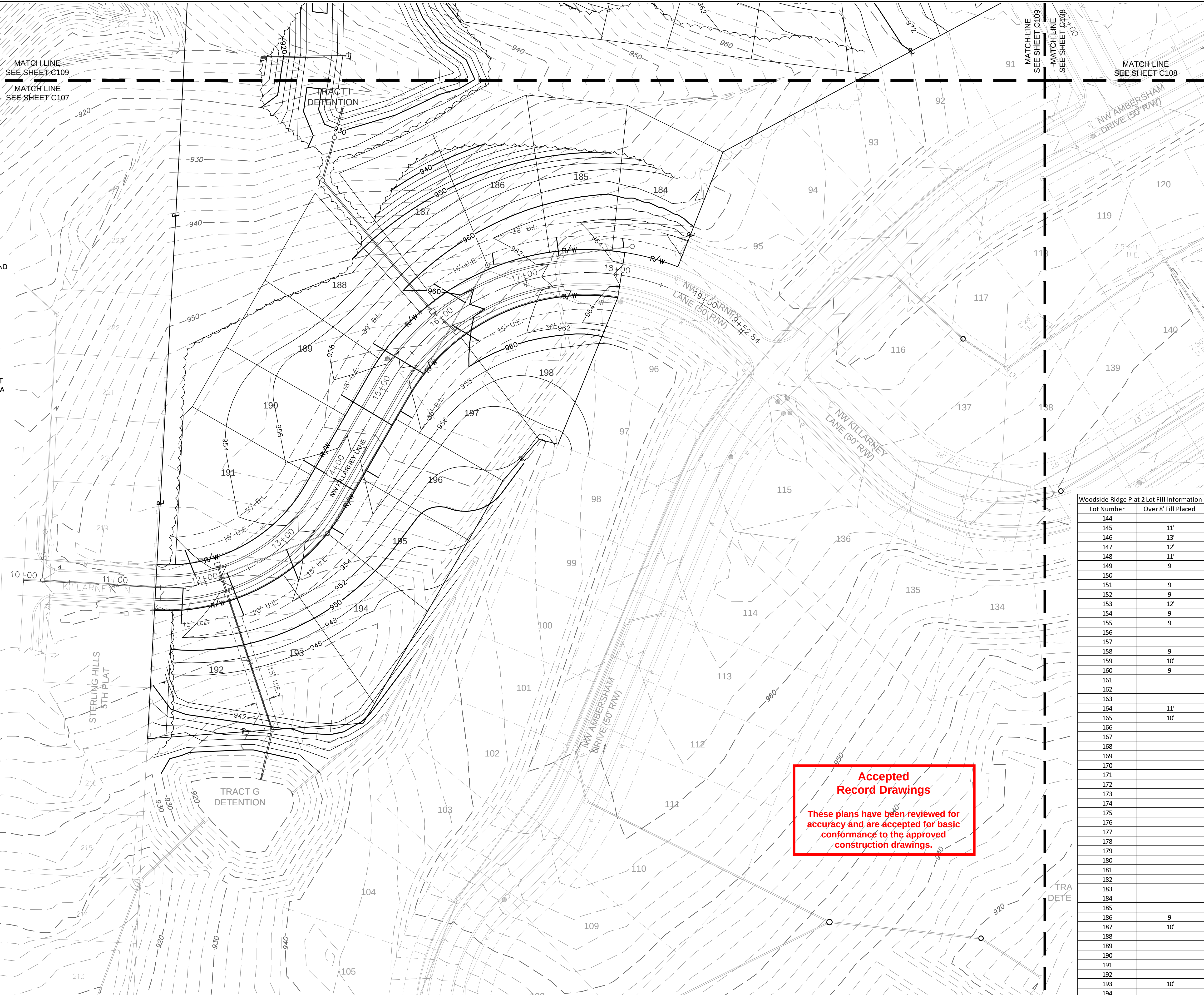
- EARTHWORK QUANTITIES BASED ON FINISHED GRADE SURFACE AND DO NOT INCLUDE ADJUSTMENTS FOR TOPSOIL AND SHRINKAGE.
- EARTHWORK QUANTITIES DO NOT TAKE INTO CONSIDERATION EXCAVATION, REMOVAL AND DISPOSAL OF MATERIAL DEEMED UNSUITABLE BY A GEOTECHNICAL ENGINEER. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR EXCAVATION, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND FOR REPLACING IT WITH SUITABLE MATERIAL.

THIRD PARTY TESTING REQUIRED FOR DETENTION BASIN IN TRACT E:

- REMOVE TOPSOIL AND ORGANIC DIRT FROM THE AREA
- PROOF ROLL TO CHECK THE SUBGRADE
- REMOVE OR REPAIR ANY UNSTABLE AREA IN ACCORDANCE WITH THIRD-PARTY TESTER
- PLACE 9" LOOSE LIFTS OF 9" MATERIAL WITH LL=50 AND PI=25 OR GREATER. EMBANKMENT SHOULD BE COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698 (STANDARD PROCTOR COMPACTION). MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE WITHIN A RANGE OF -0 TO +4 PERCENT OF OPTIMUM MOISTURE CONTENT.



0 25' 50' 100'
SCALE IN FEET



Accepted
Record Drawings

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Woodside Ridge Plat 2 Lot Fill Information	
Lot Number	Over 8' Fill Placed
144	
145	11'
146	13'
147	12'
148	11'
149	9'
150	
151	9'
152	9'
153	12'
154	9'
155	9'
156	
157	
158	9'
159	10'
160	9'
161	
162	
163	
164	11'
165	10'
166	
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178	
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185	
186	9'
187	10'
188	
189	
190	
191	
192	10'
193	
194	
195	
196	
197	
198	

NOT ASBUILT

olsson

NOT A CONFIRMATION OF ADOPTION OF THIS DRAWING
300 EAST BURNING TREE DRIVE, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.861.1177
WWW.OLSSON.COM

STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER

BY: [Signature]
NO. REV. [Table]
DATE [Table]
REVISIONS DESCRIPTION [Table]

GRADING PLAN
STREET & STORM SEWER PLANS
WOODSIDE RIDGE
SECOND PLAT
LEE'S SUMMIT, MO

2020

drawn by: [Blank] C.S.M.
checked by: [Blank] S.M.S.
designed by: [Blank] C.S.M.
QA/QC by: [Blank] J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C107



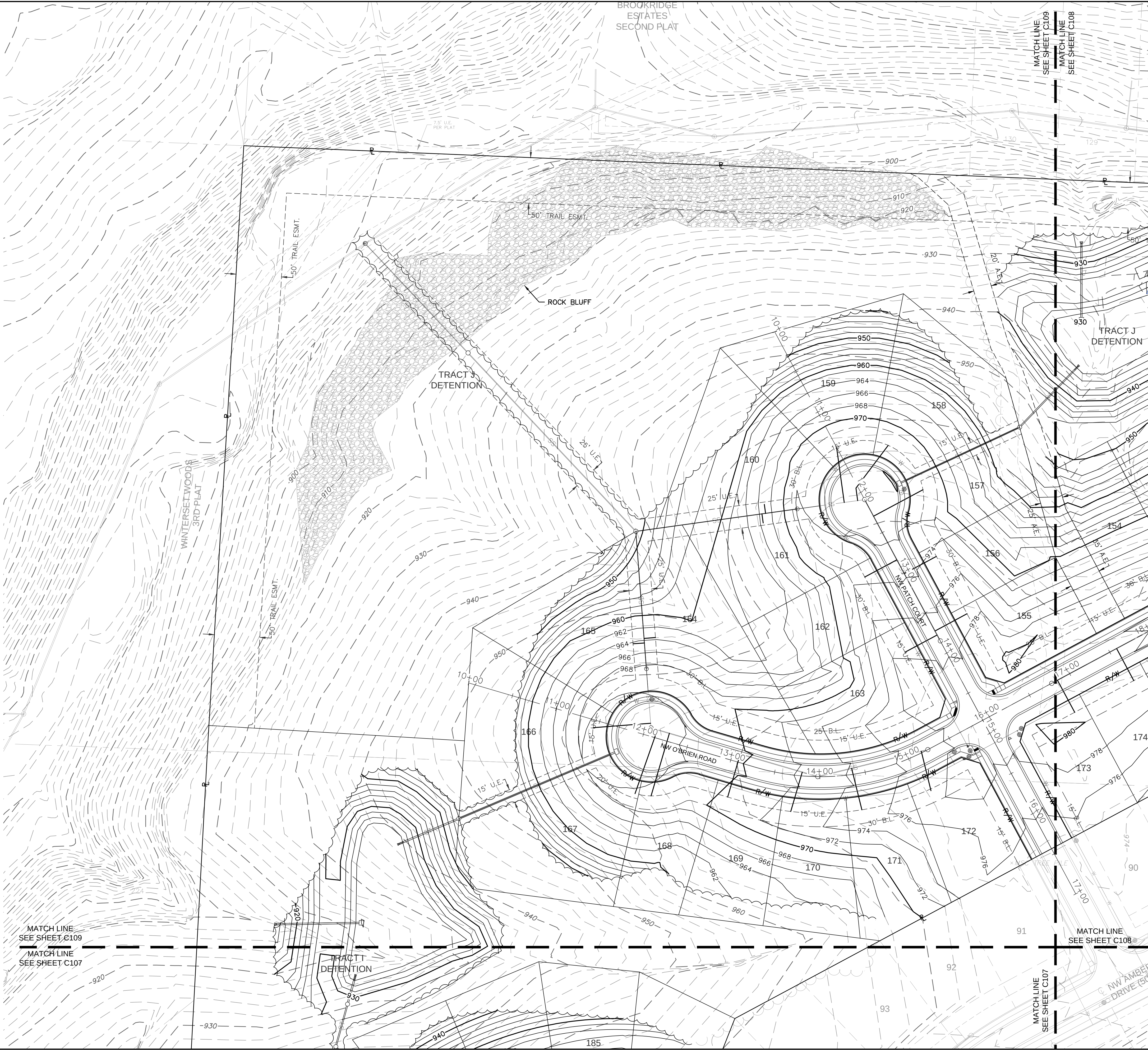
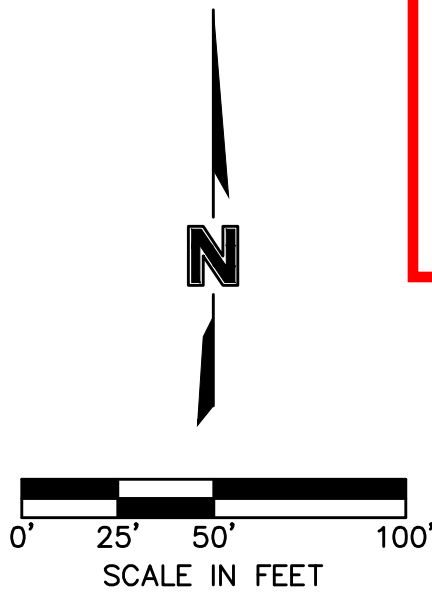
KEY MAP

Woodside Ridge Plat 2 Lot Fill Information	
Lot Number	Over 8' Fill Placed
144	
145	11'
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147	12'
148	11'
149	9'
150	
151	9'
152	9'
153	12'
154	9'
155	9'
156	
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158	9'
159	10'
160	9'
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164	11'
165	10'
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186	9'
187	10'
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189	
190	
191	
192	
193	10'
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NOT ASBUILT

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BY

NO. REV.

DATE

REVISIONS DESCRIPTION

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER

GRADING PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

REVISIONS

drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C108

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilt\Sheets\GNCV\Street & Storm\C_GRD02_C181140.dwg
DATE: Oct 17, 2022 12:38pm
USER: ssaylor



KEY MAP

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152	9'
153	12'
154	9'
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158	9'
159	10'
160	9'
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164	11'
165	10'
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186	9'
187	10'
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193	10'
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0 25' 50' 100'
SCALE IN FEET



NOT ASBUILT

BY

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GRADING PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

drawn by: C.S.M.
checked by: S.M.S.
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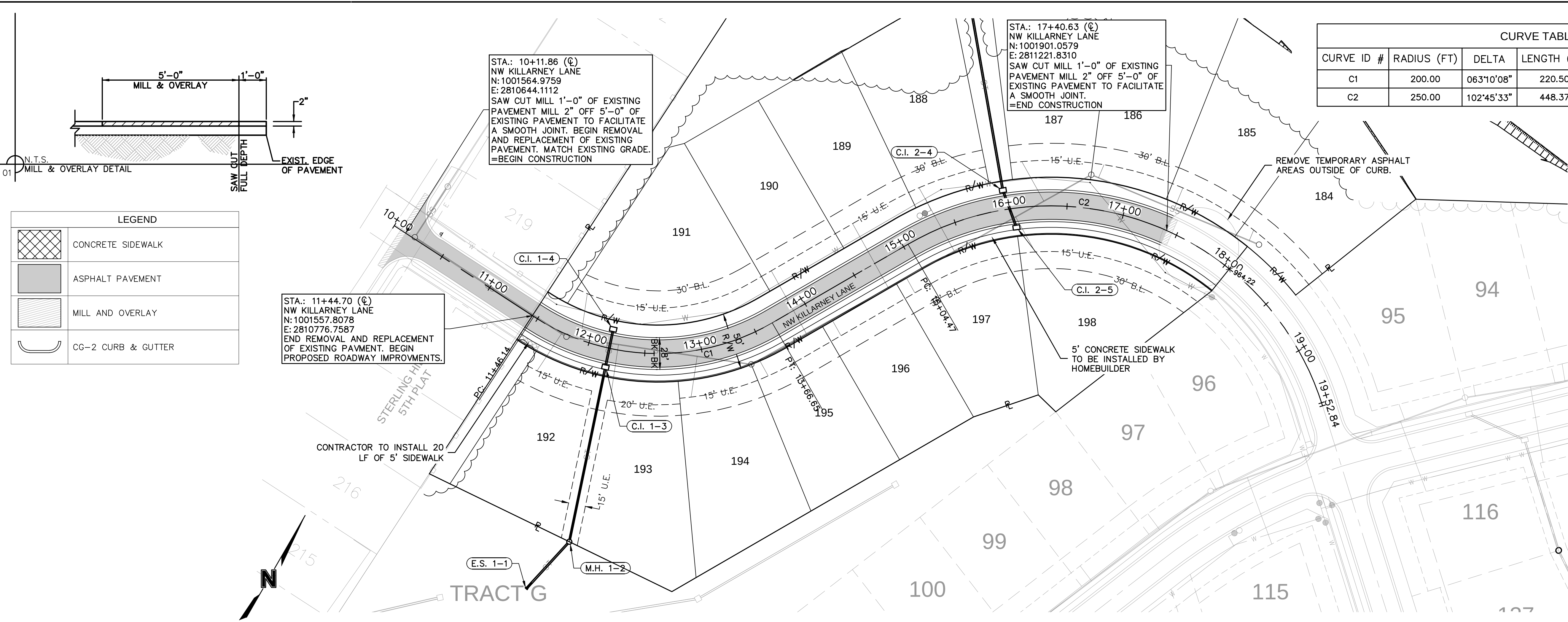
SHEET
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2020

REVISIONS

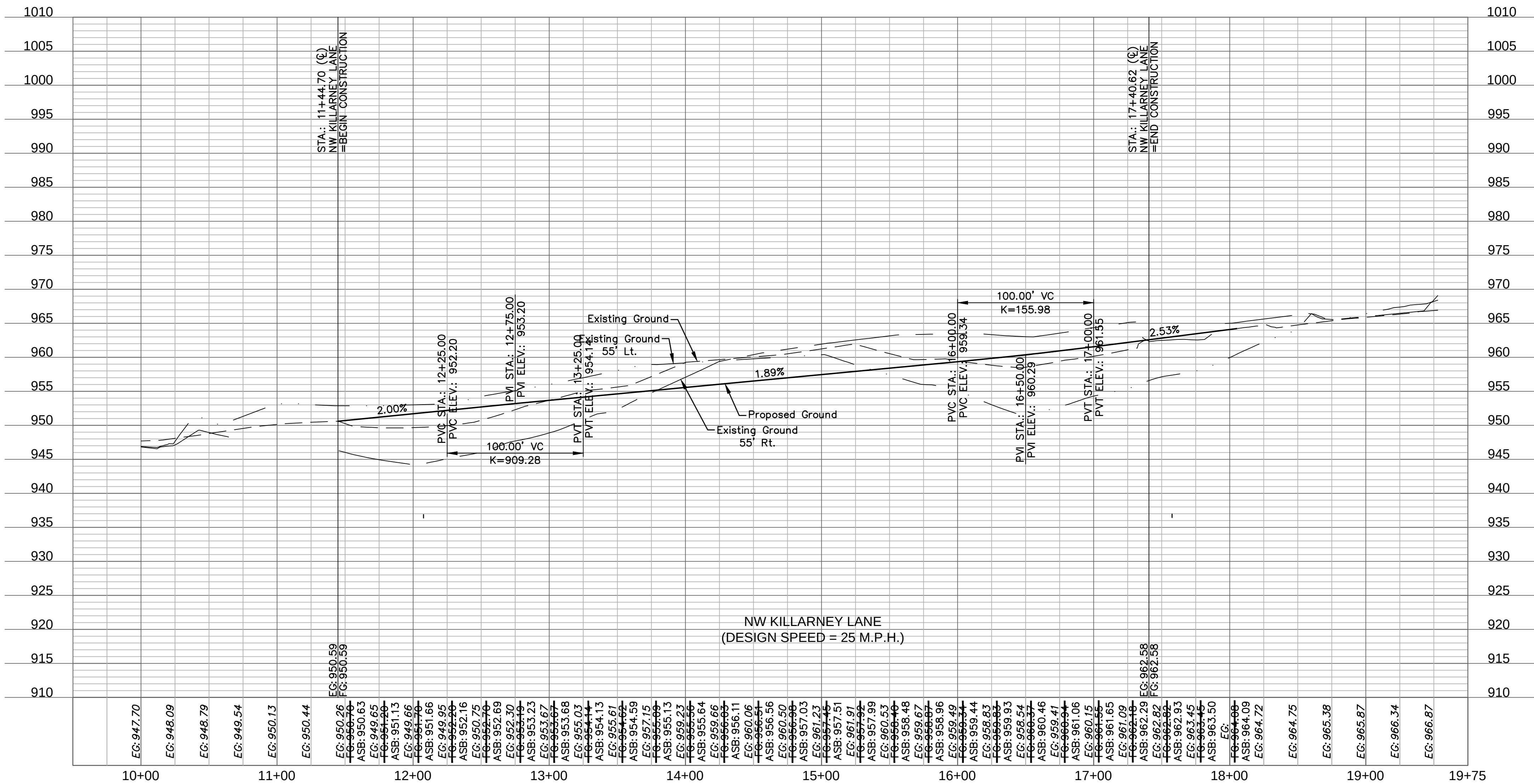
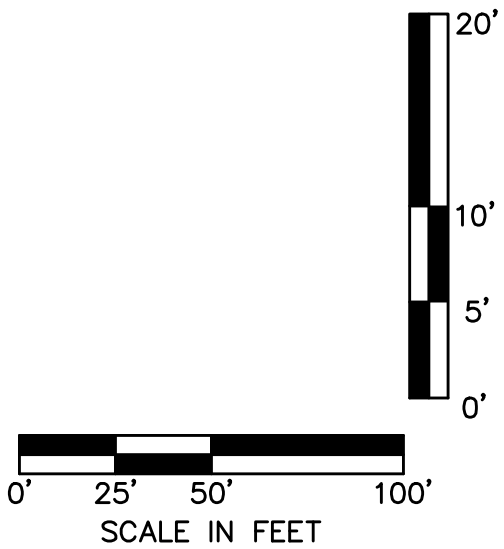
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JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER
STATE OF MISSOURI
NO. 0000000000
303 E. BROADWAY, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
www.olsson.com



CURVE TABLE					
CURVE ID #	RADIUS (FT)	DELTA	LENGTH (FT)	TANGENT (FT)	P.I. STA. (BK.)
C1	200.00	063°10'08"	220.50	122.97	12+43.68
C2	250.00	102°45'33"	448.37	312.94	16+39.90

LEGEND	
	CONCRETE SIDEWALK
	ASPHALT PAVEMENT
	MILL AND OVERLAY
	CG-2 CURB & GUTTER



ASBUILT
03-24-2022

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olsson

NOT A Seal of Authority of the State of Missouri
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TEL. 816.861.1177
www.olsson.com

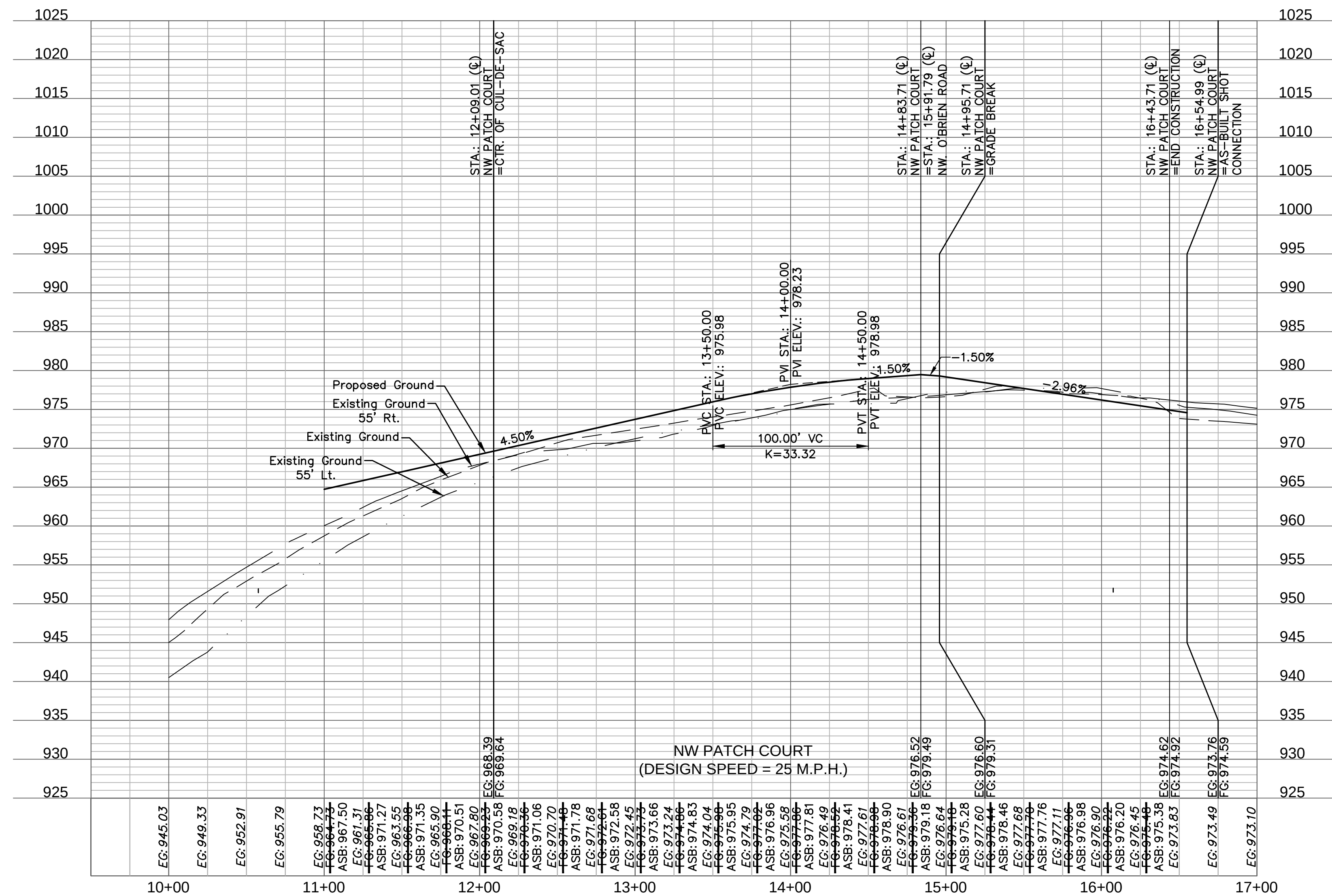
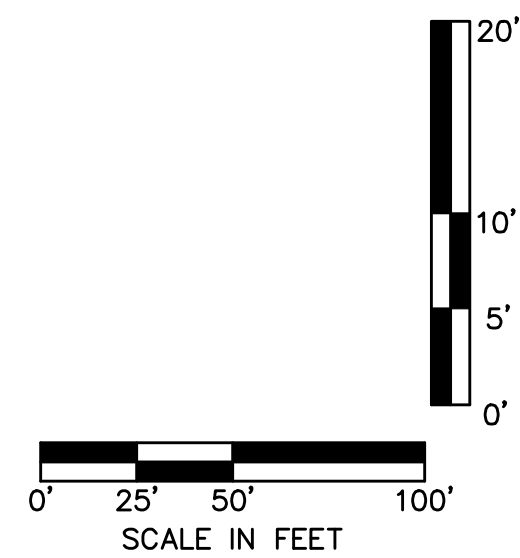
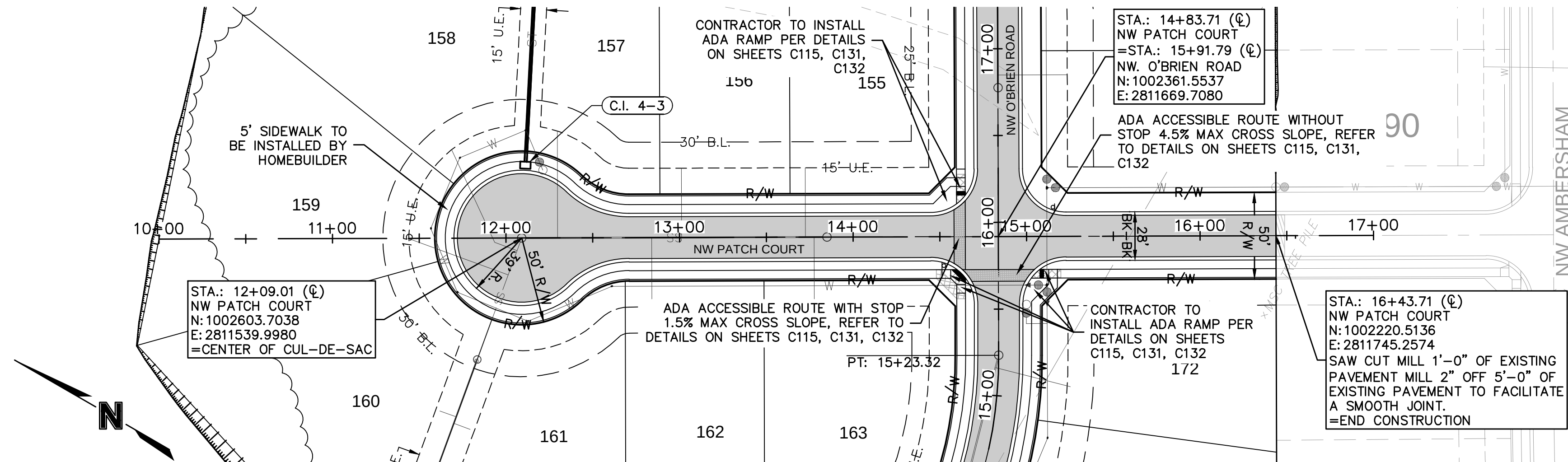
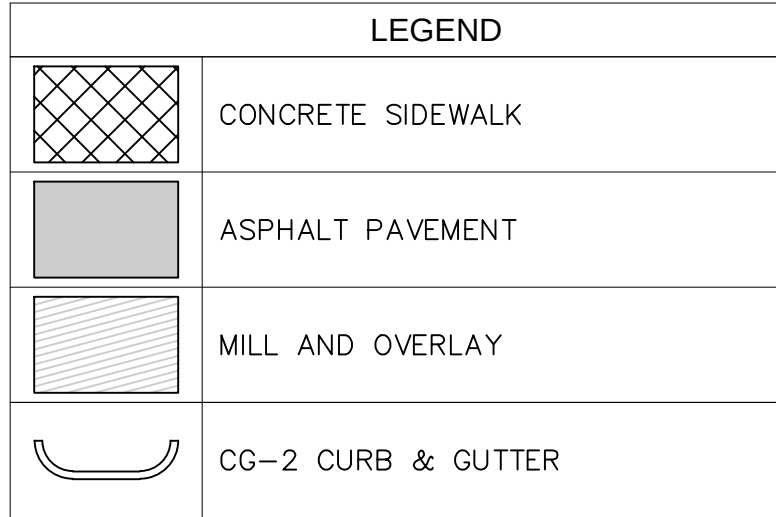
STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER

BY
NO. REV.
DATE
REVISIONS DESCRIPTION

ROADWAY PLAN & PROFILE
STREET & STORM SEWER PLANS
WOODSIDE RIDGE
SECOND PLAT
LEE'S SUMMIT, MO
2020

drawn by: _____ C.S.M.
checked by: _____ S.M.S.
designed by: _____ C.S.M.
QA/QC by: _____ J.E.S.
project no.: C18-1140
date: 2020.07.10

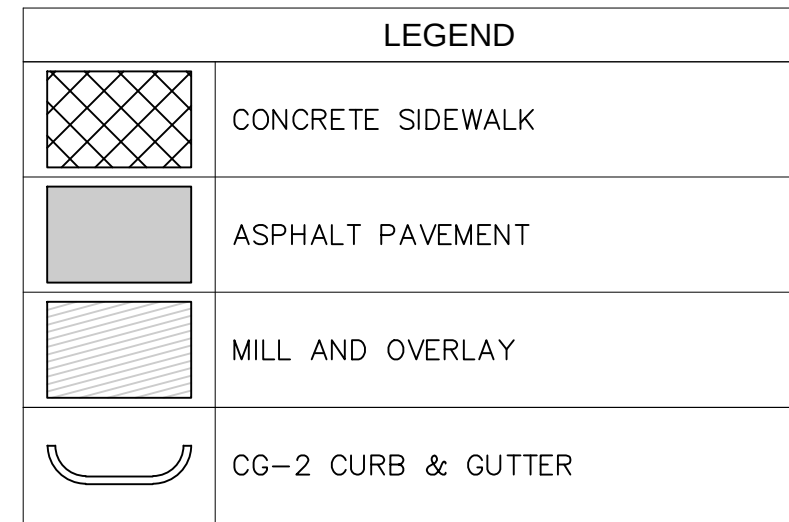
SHEET
C110



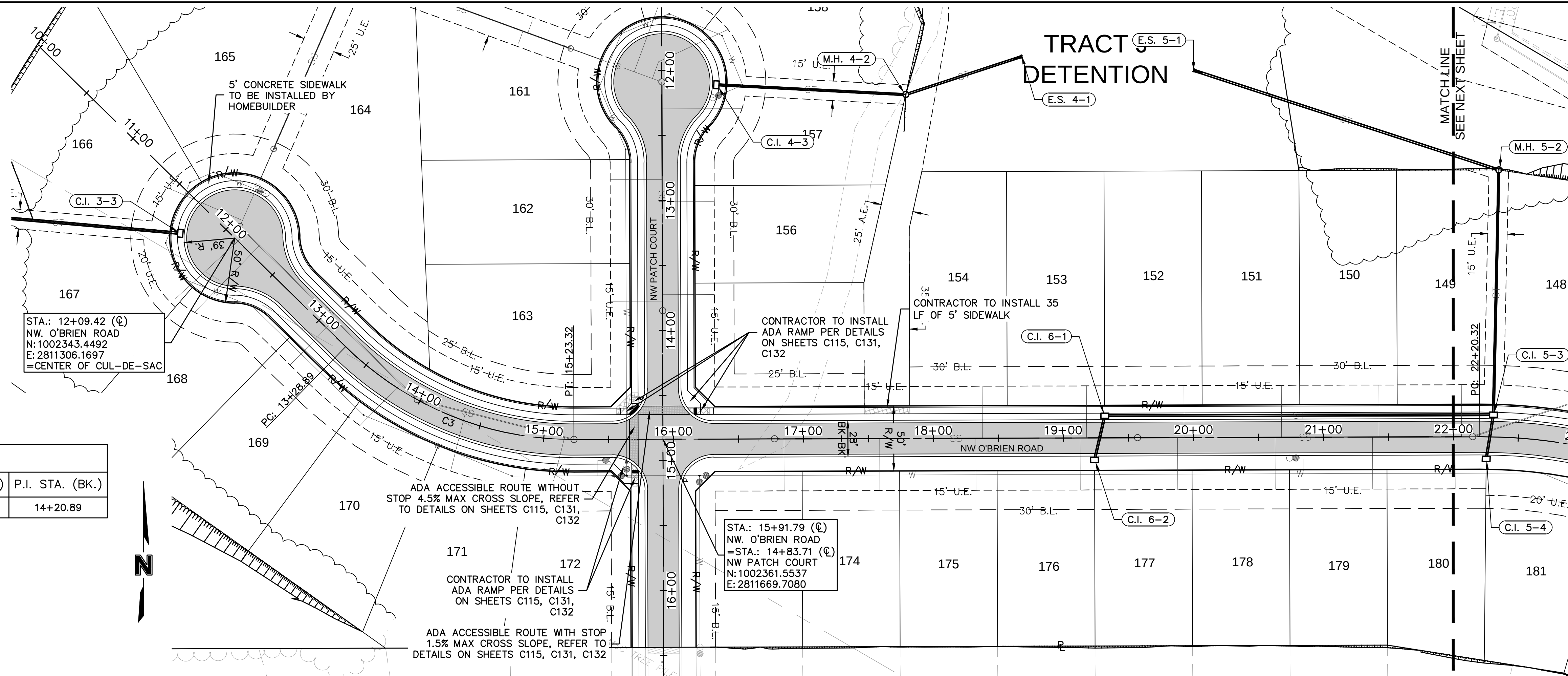
ASBUILT
03-24-2022

**Accepted
Record Drawings**

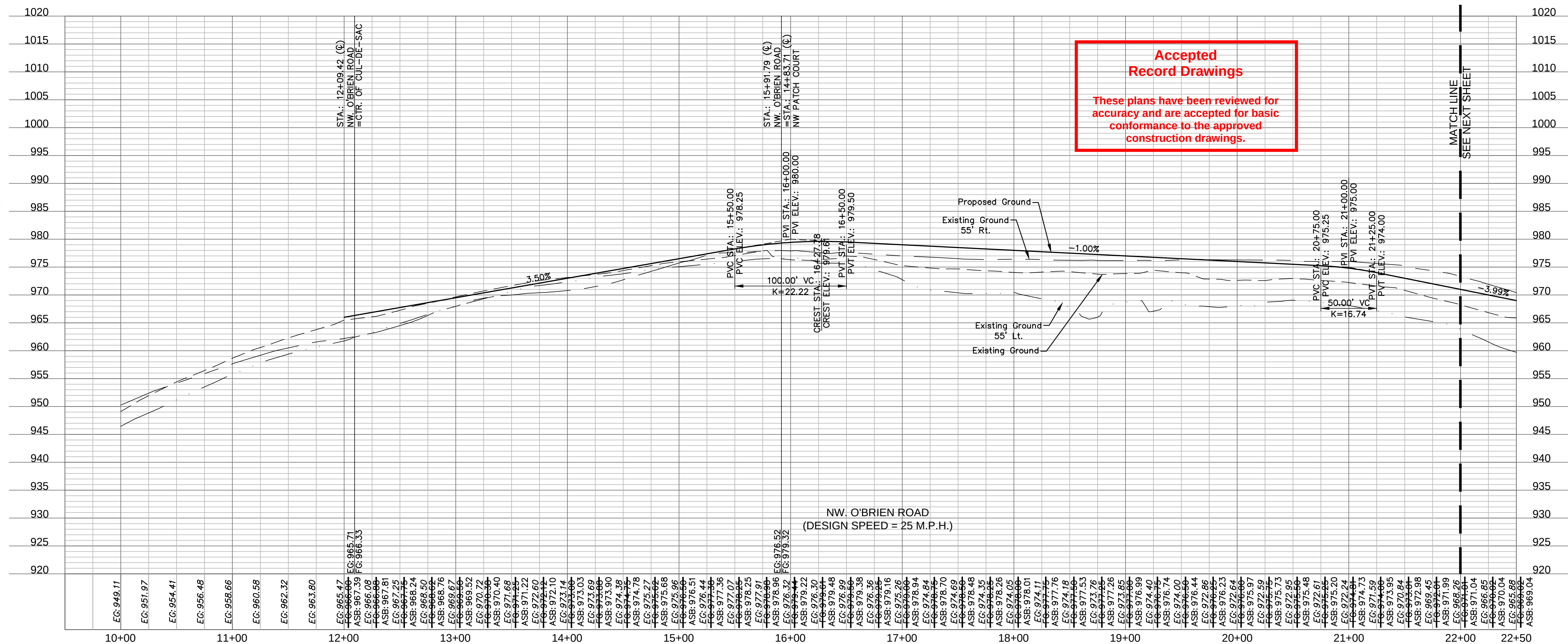
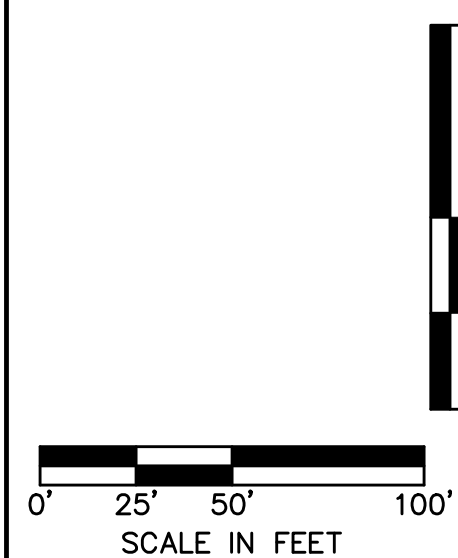
These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



CURVE TABLE					
CURVE ID #	RADIUS (FT)	DELTA	LENGTH (FT)	TANGENT (FT)	P.I. STA. (BK.)
C3	250.00	044°33'34"	194.43	102.43	14+20.89



ASBUILT
03-24-2022



**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

ROADWAY PLAN & PROFILE
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

DEVISIONS

[illegible]

olsson

MO Certificate of Authority #:001592
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116

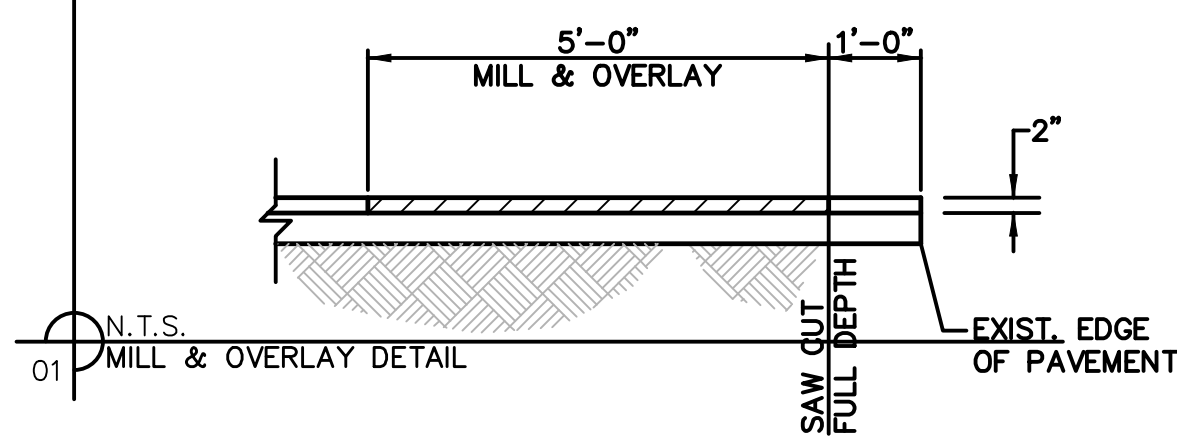
www.olsson.com

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DATE: Oct 17, 2022 12:39pm
USER: sscaylor

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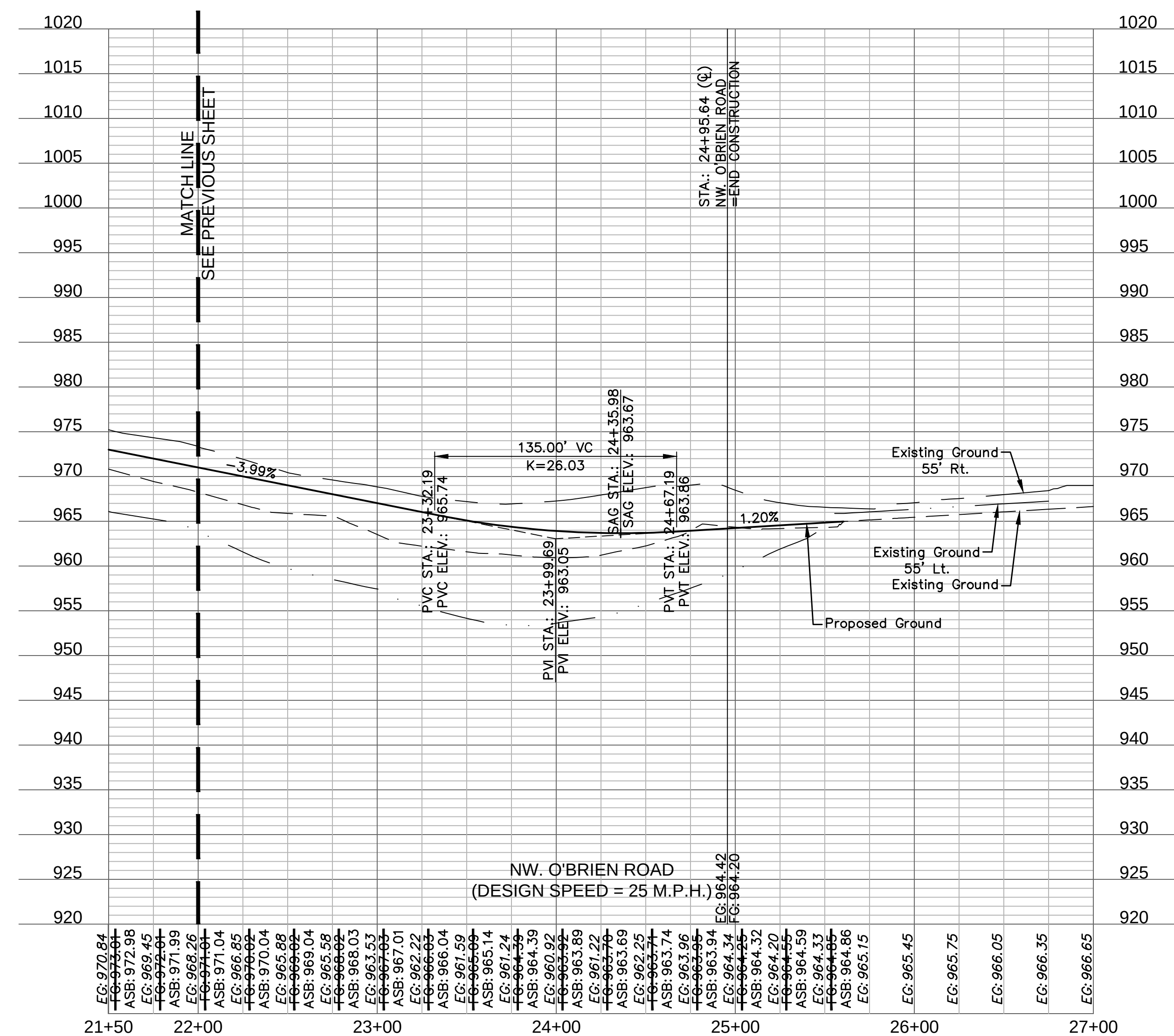
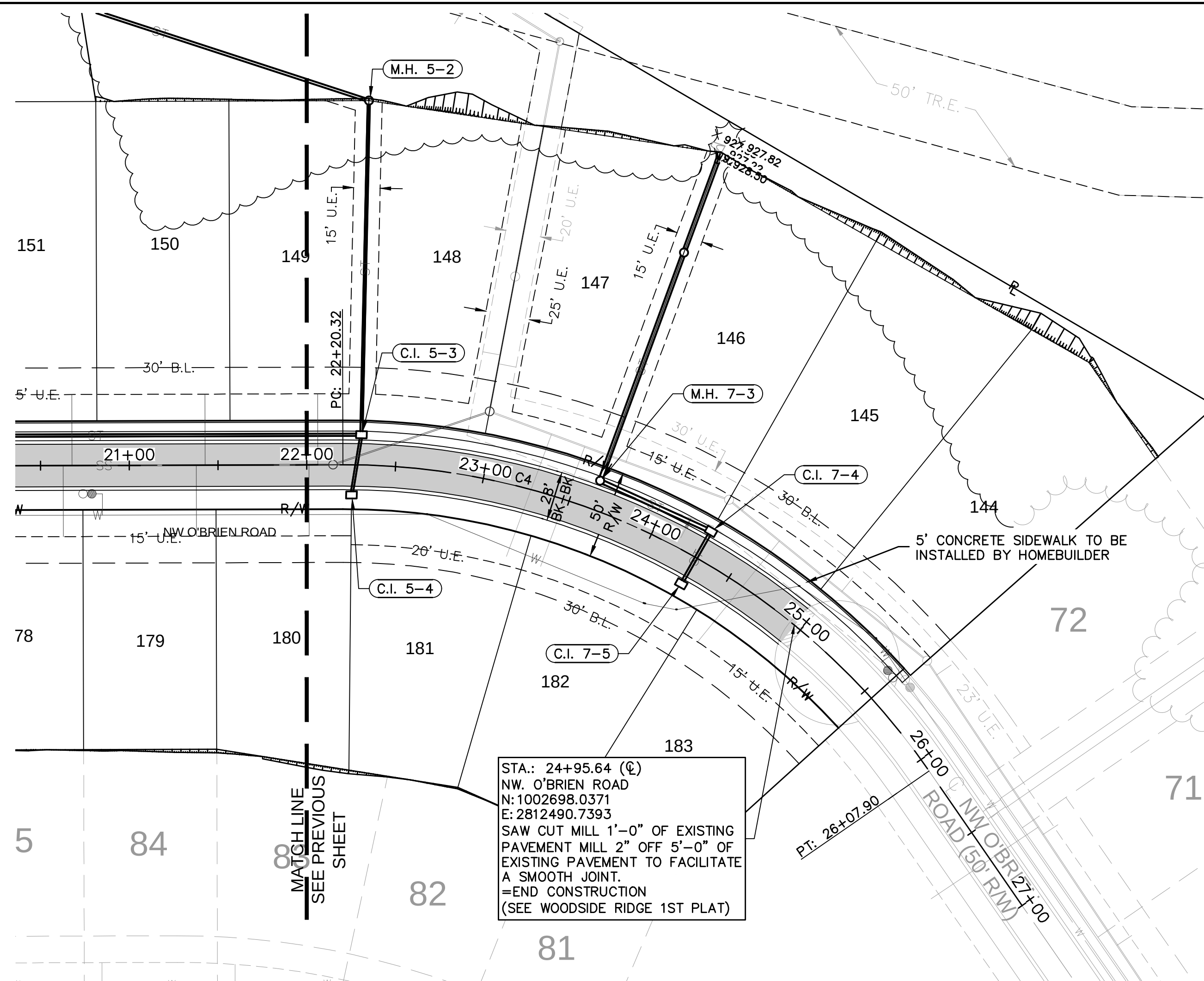
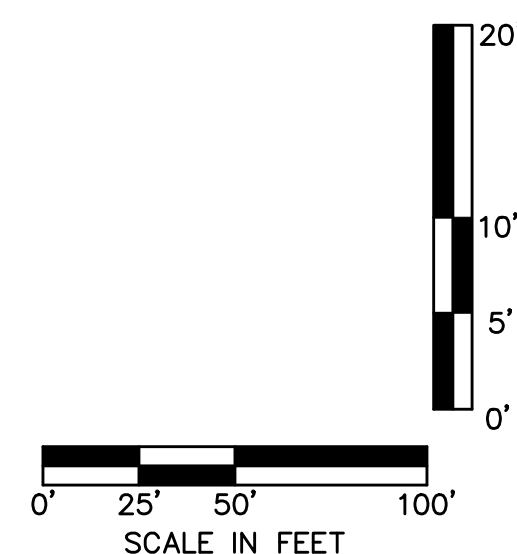
USER: ssaylor

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DATE: Oct 17, 2022 12:39pm



LEGEND	
	CONCRETE SIDEWALK
	ASPHALT PAVEMENT
	MILL AND OVERLAY
	CG-2 CURB & GUTTER

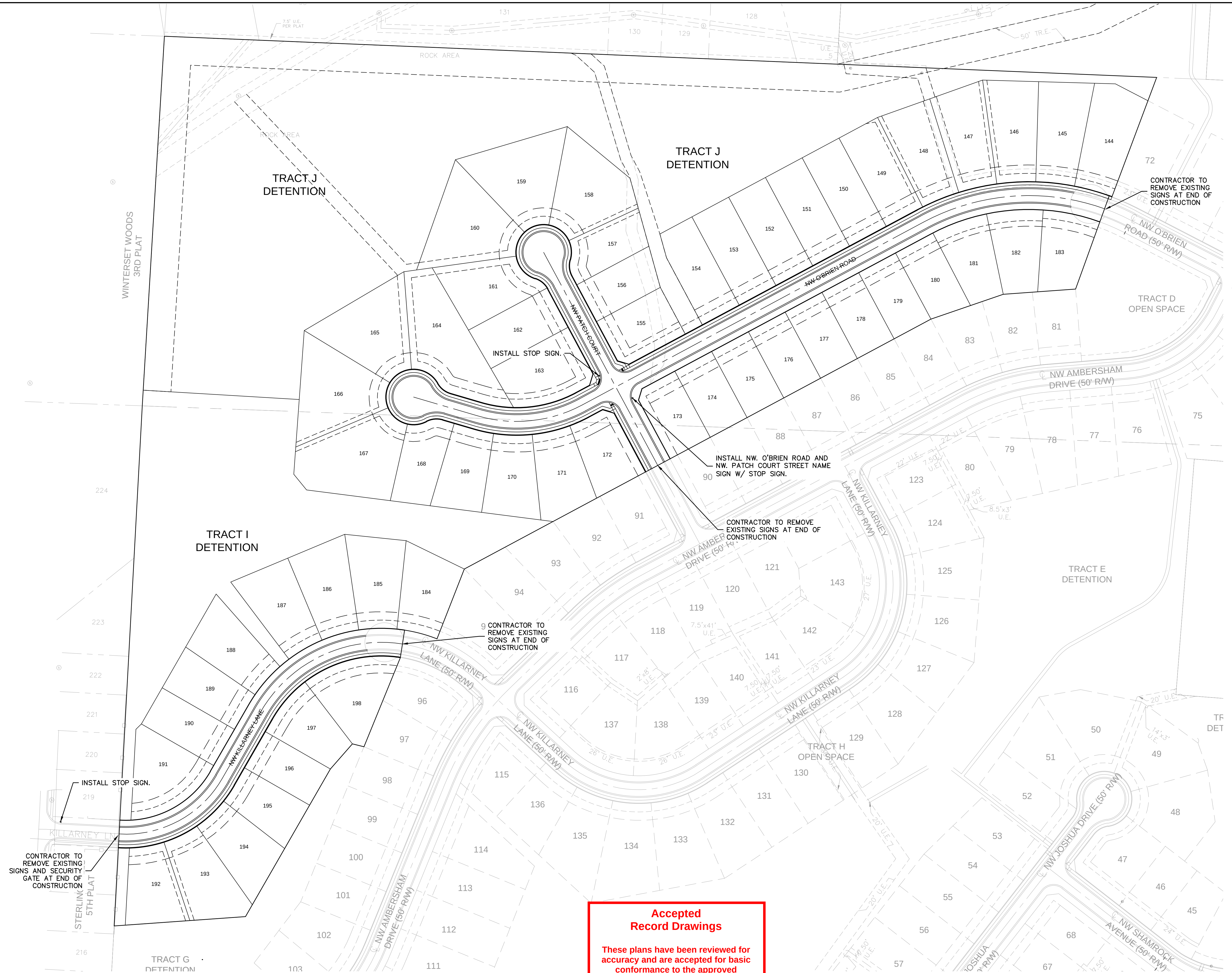
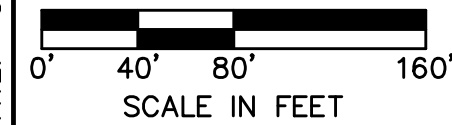
CURVE TABLE					
CURVE ID #	RADIUS (FT)	DELTA	LENGTH (FT)	TANGENT (FT)	P.I. STA. (BK.)
C4	400.00	055°31'00"	387.58	210.52	23+97.37



ASBUILT
03-24-2022

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

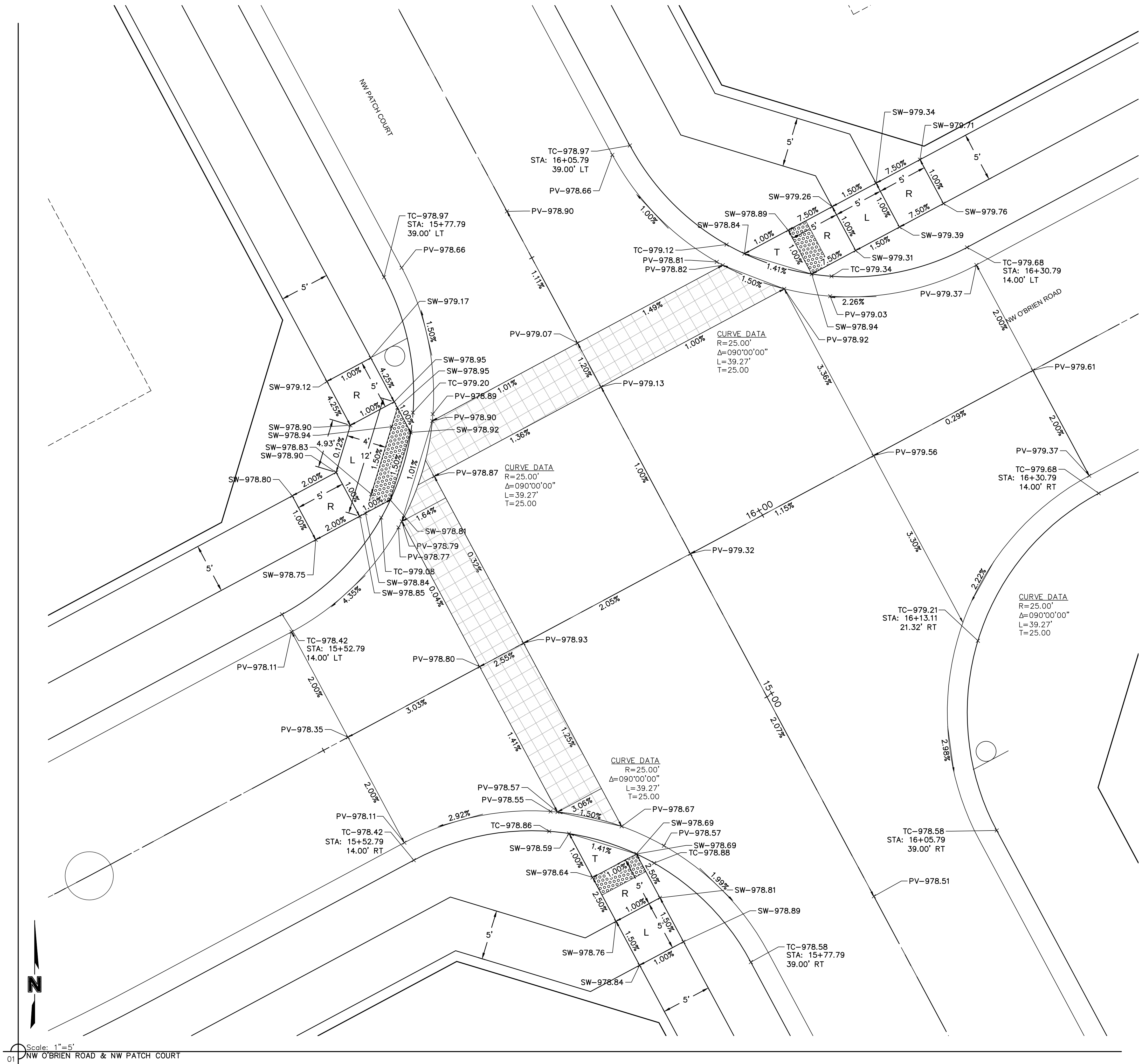


**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

NOT ASBUILT

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DATE: Oct 17, 2022 12:41pm
USER: ssaylor



Accepted
Record Drawings

These plans have been reviewed for
accuracy and are accepted for basic
conformance to the approved
construction drawings.

NOT ASBUILT

olsson

NOT A CONFIRMATION OF ACCURACY OF THIS DRAWING
303 E. MAIN STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL: 816.861.1177
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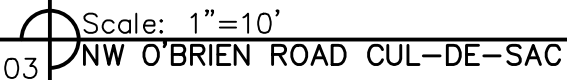
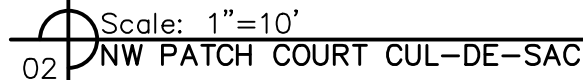
STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER

BY
NO. REV.
DATE
2021.09.14
3
2021.09.22
4
REVISIONS DESCRIPTION
REVISED PER CITY COMMENTS
REVISED PER CONTRACTOR COMMENT
REVISIONS
2020

INTERSECTION DETAILS
STREET & STORM SEWER PLANS
WOODSIDE RIDGE
SECOND PLAT
LEE'S SUMMIT, MO

drawn by: _____ C.S.M.
checked by: _____ S.M.S.
designed by: _____ C.S.M.
QA/QC by: _____ J.E.S.
project no.: _____ C18-1140
date: _____ 2020.07.10

SHEET
C115

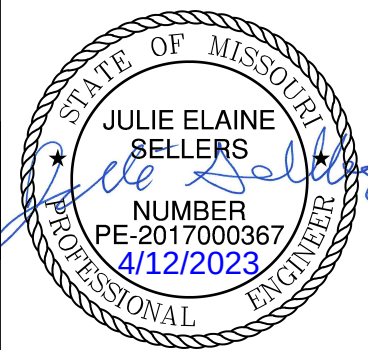


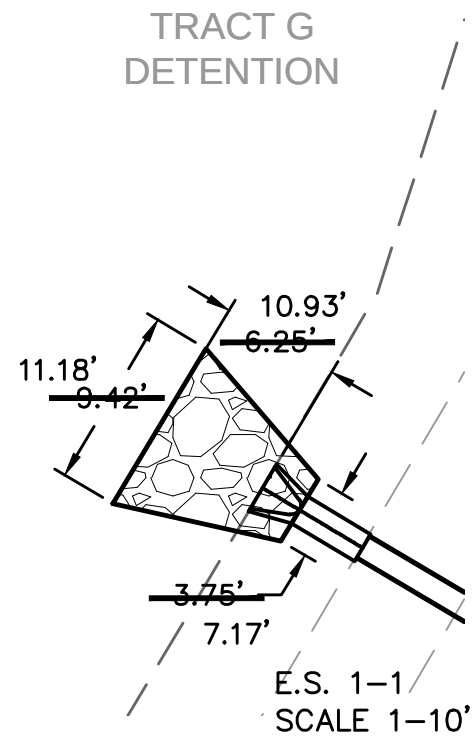
These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

NOT ASBUILT

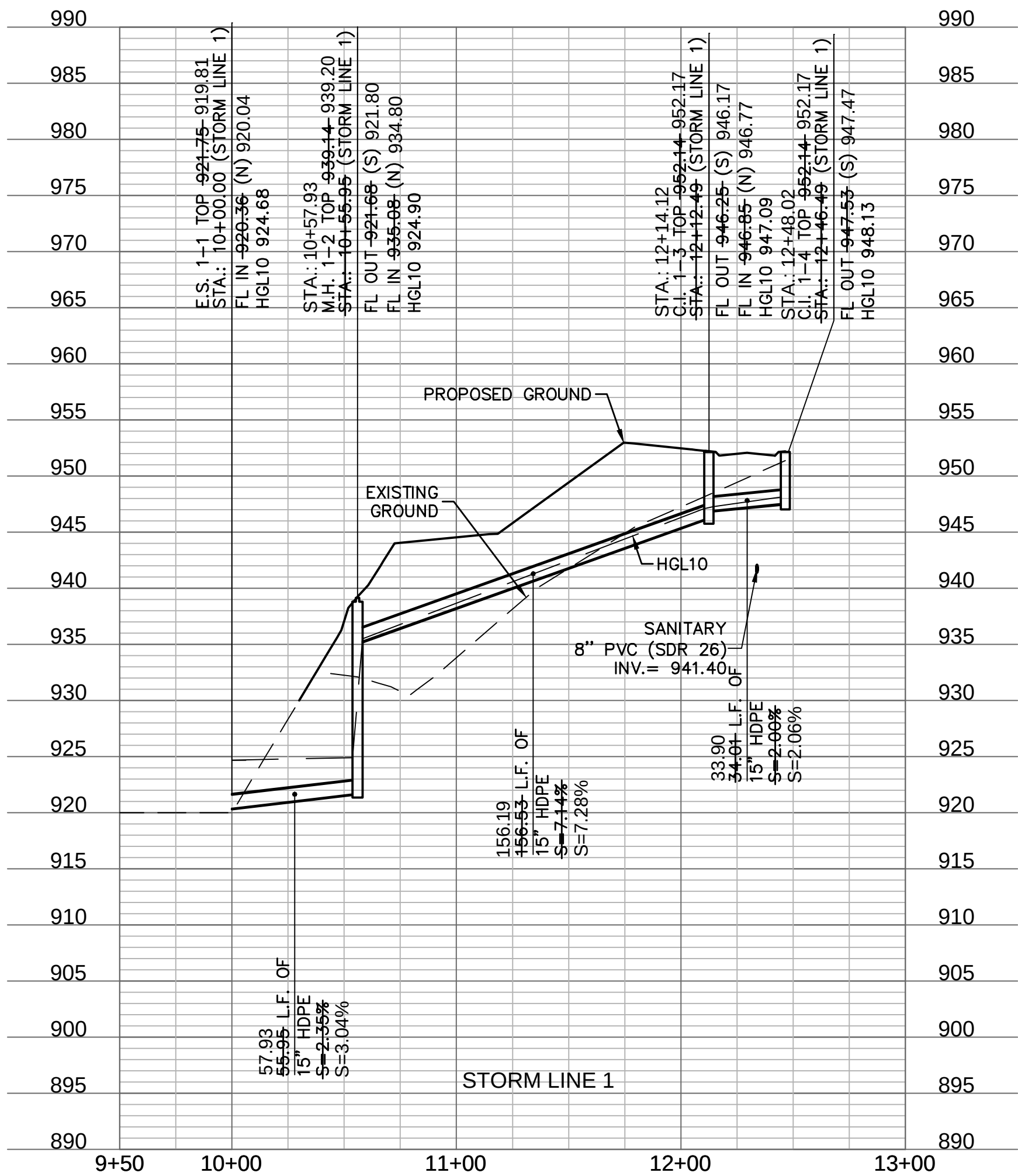
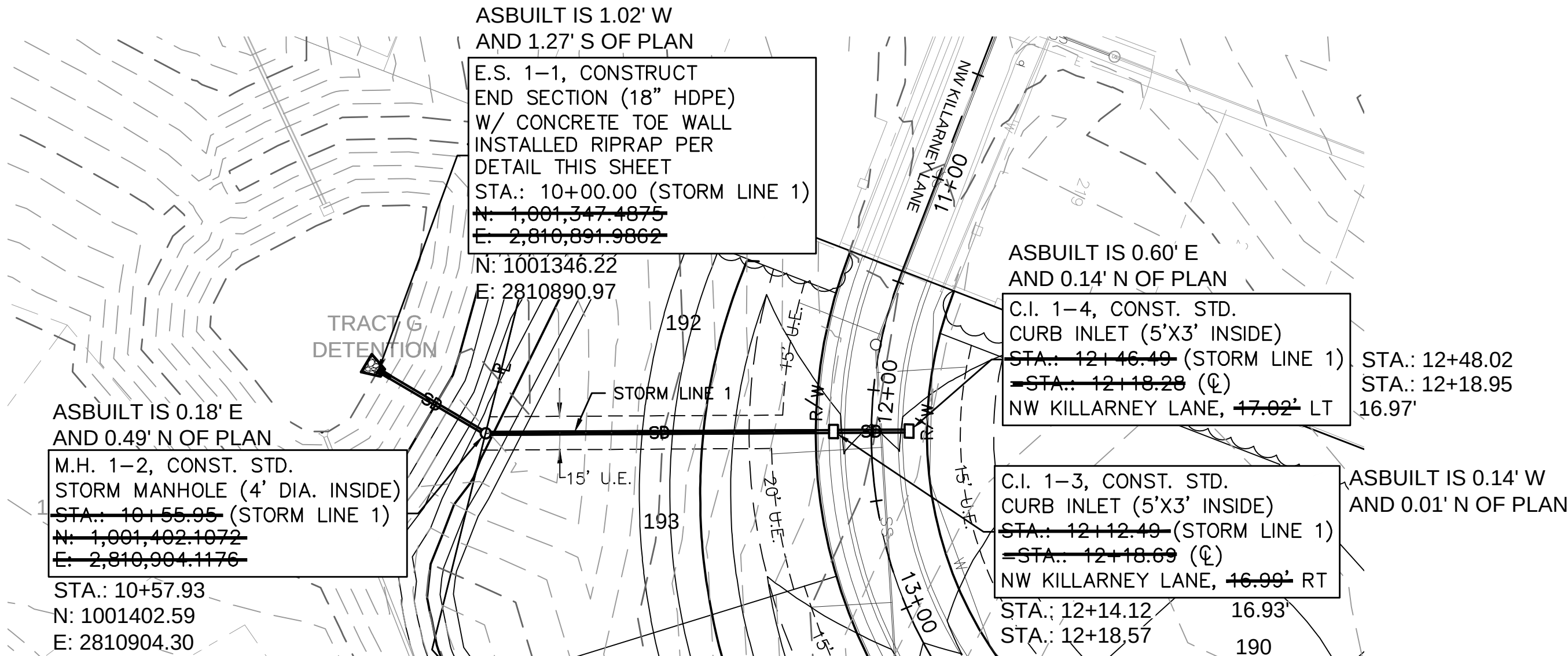
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REVISIONS





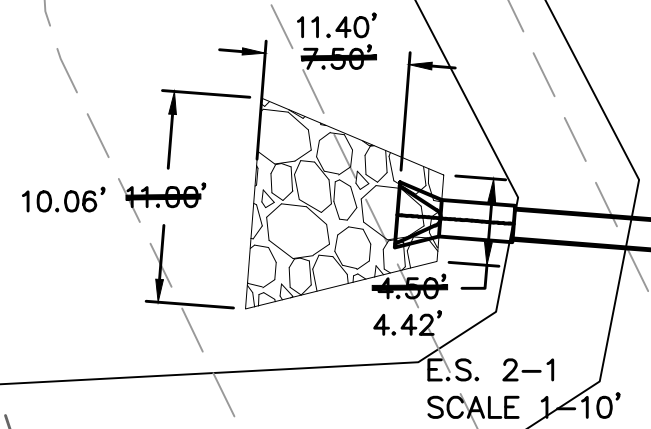
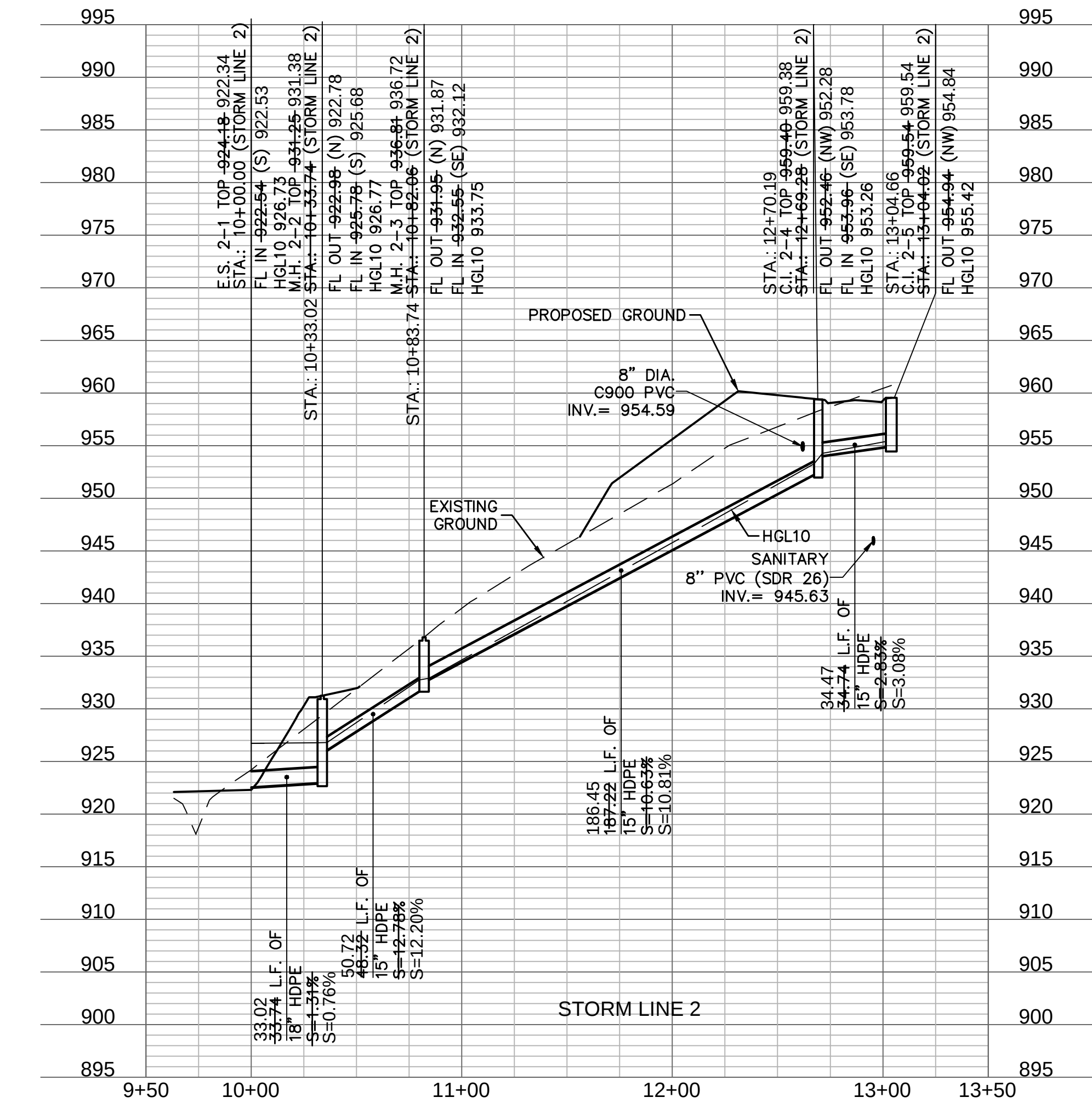
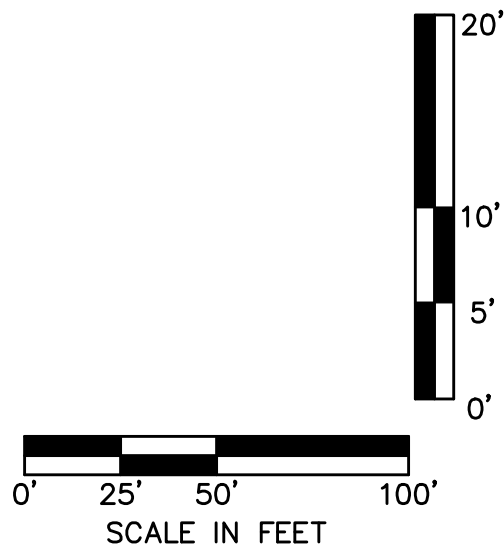
Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 1-1	7.34	1.25	3	10	6.25	2.00
*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18						19.74



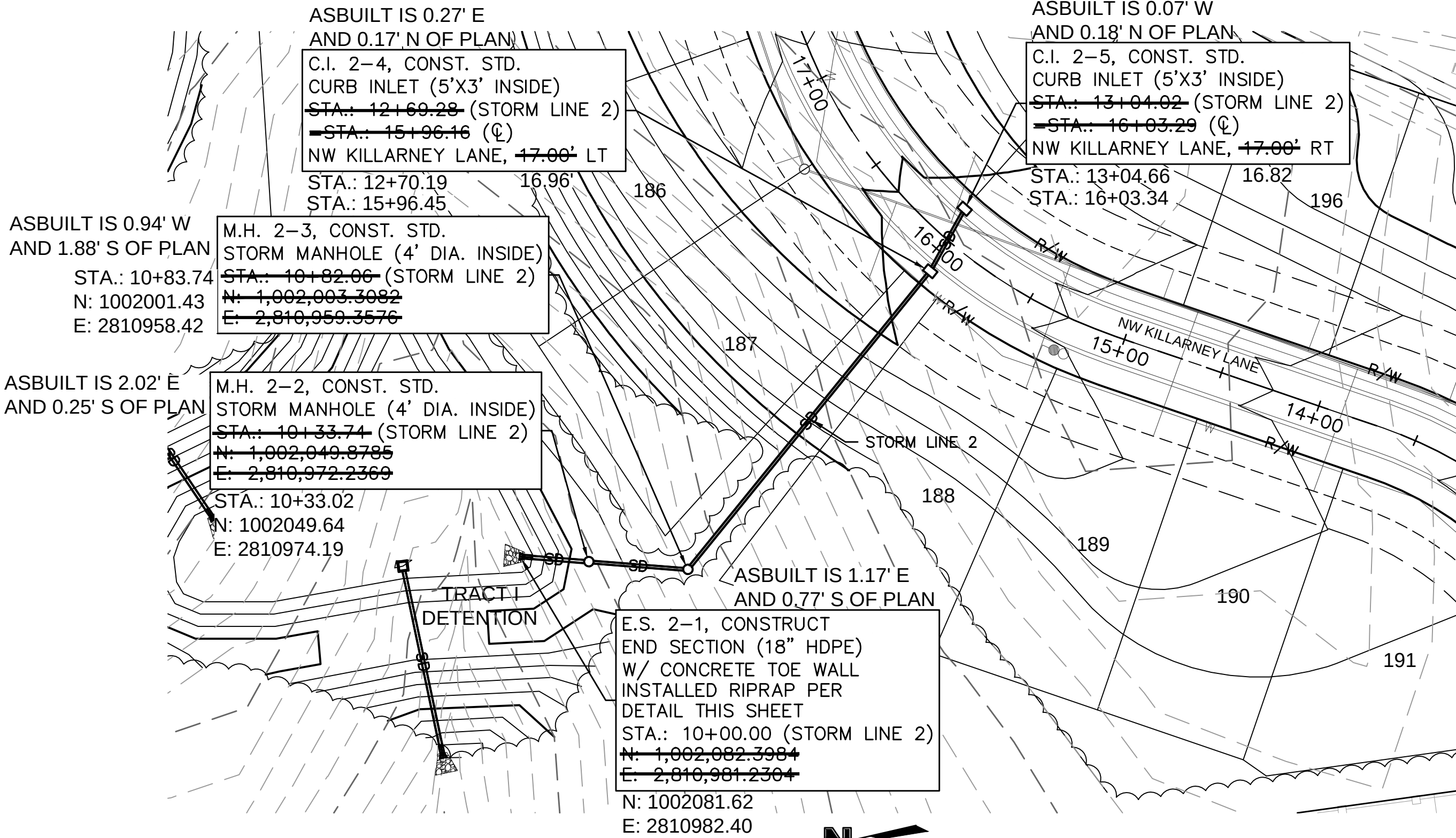
ASBUILT
03-24-2022

Accepted
Record Drawings

These plans have been reviewed for
accuracy and are accepted for basic
conformance to the approved
construction drawings.



Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 2-1	9.35	1.5	3	10	7.5	2.00
*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18						8.77



STORM SEWER PLAN & PROFILE
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

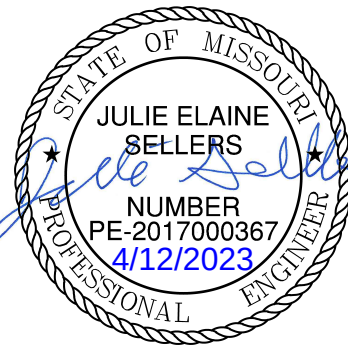
drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C117

NO. REV. DATE REVISIONS DESCRIPTION
2 3/16/2021 REVISED PER CONTRACTOR COMMENT

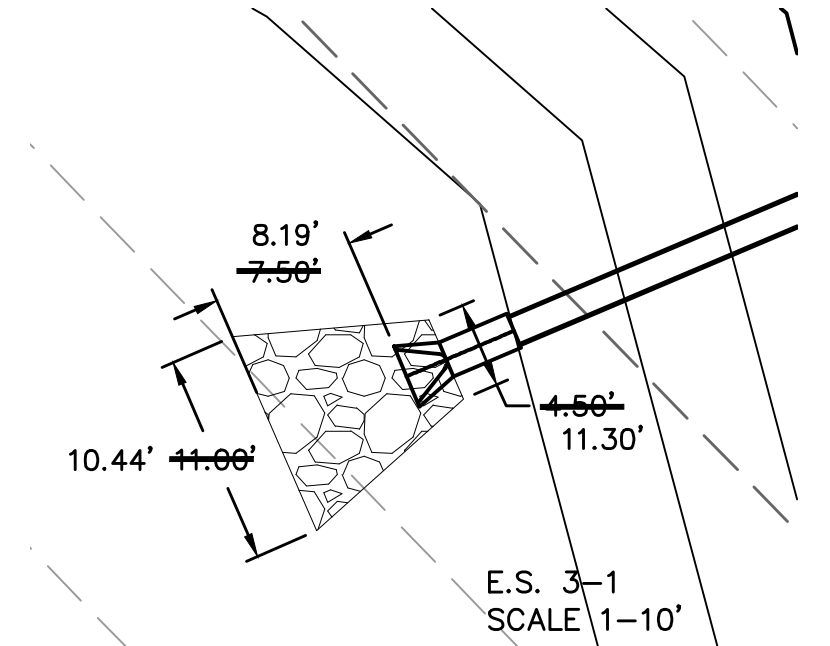
REVISIONS

2020



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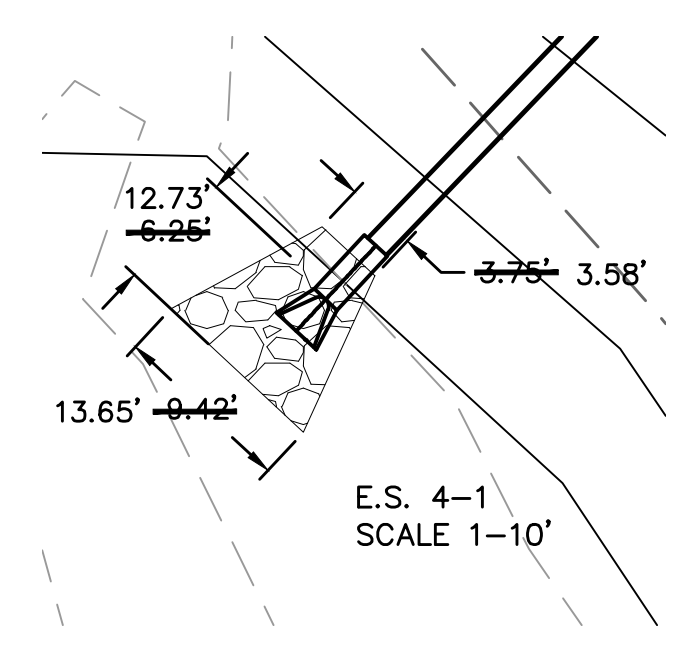
NO. 001140-018-1140-C
300 E. MAIN STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
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Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 3-1	7.83	1.5	3	10	7.5	2.00

*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18

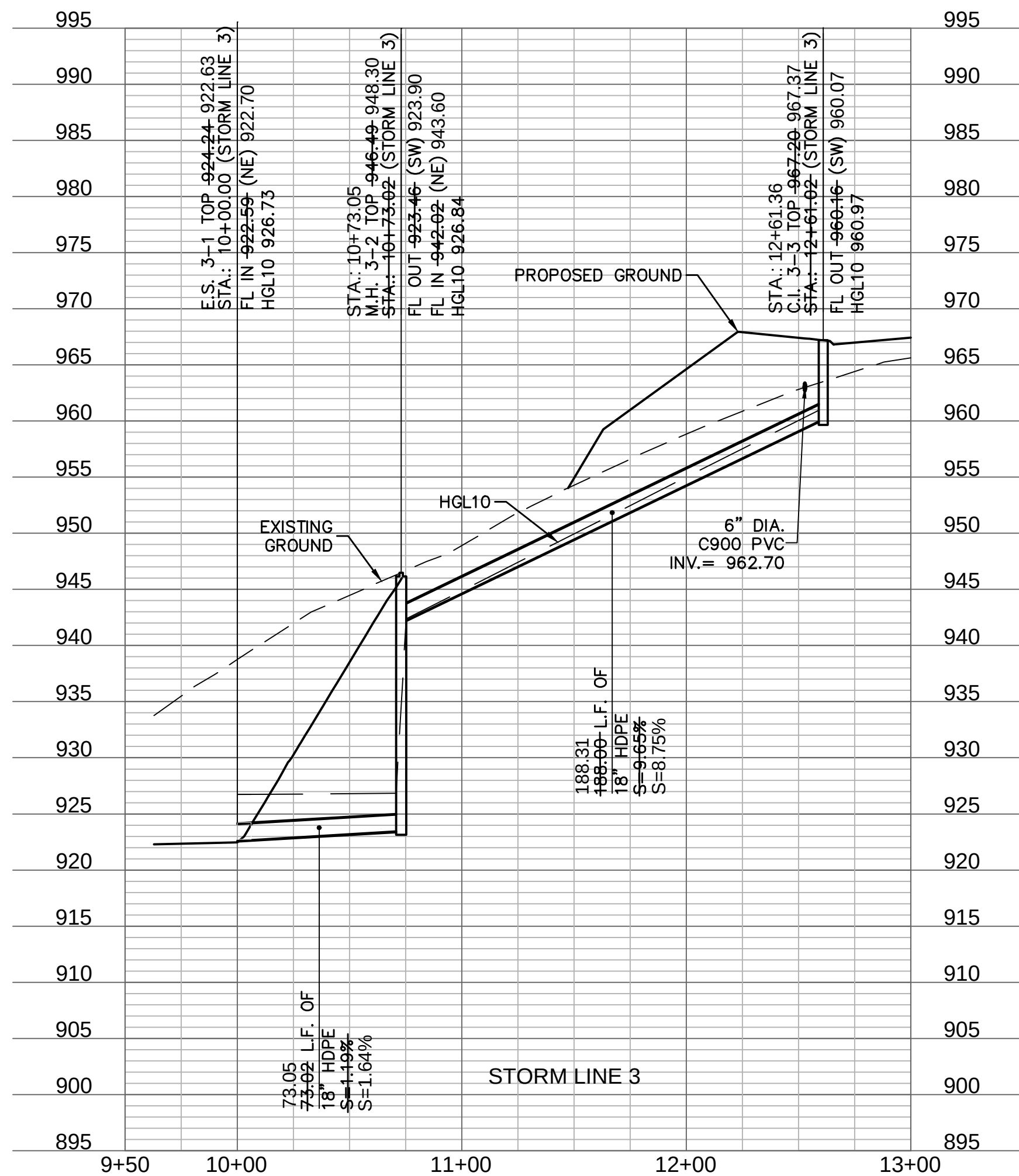
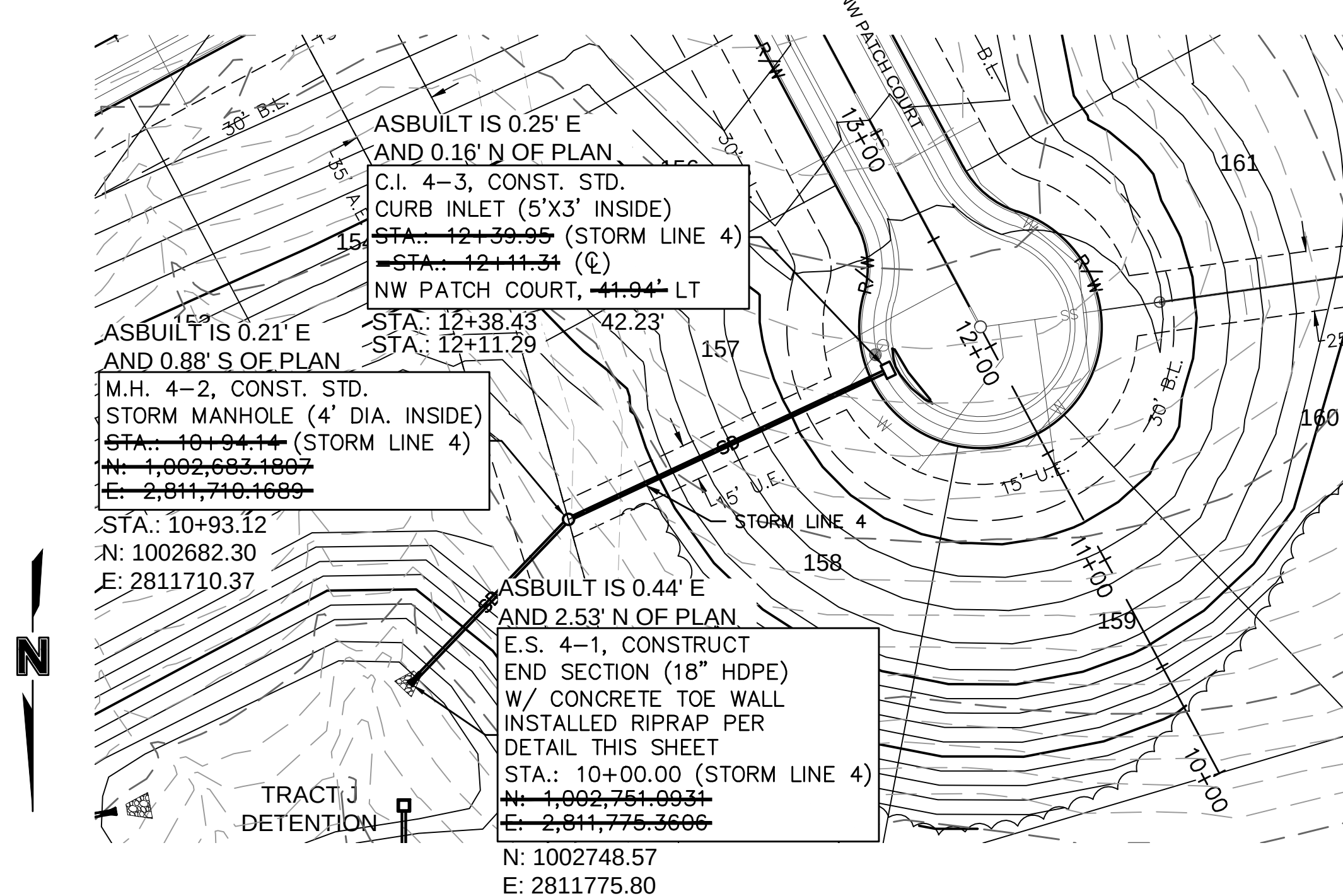
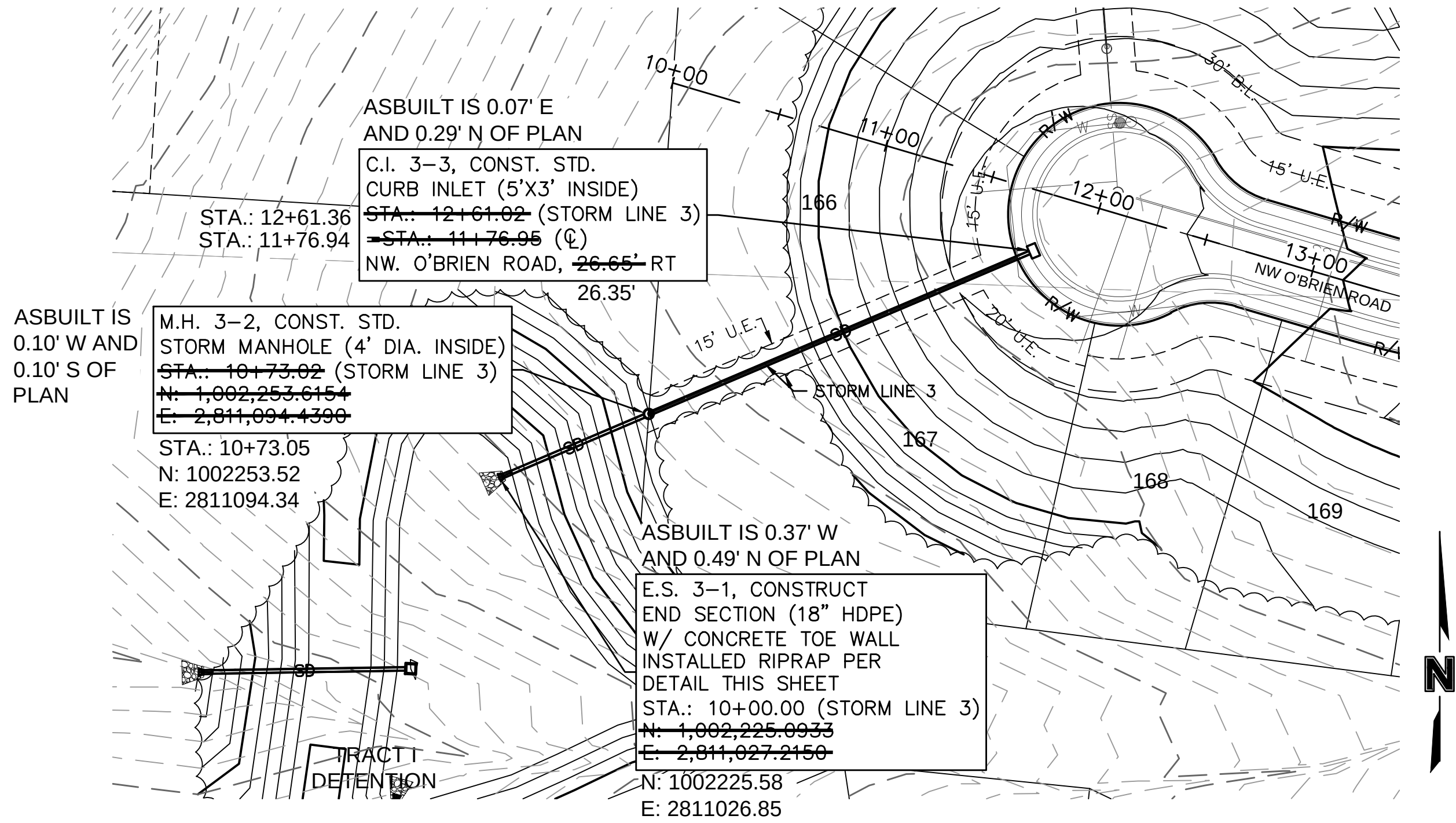
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Riprap Calculations						
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E.S. 4-1	6.05	1.25	3	10	6.25	2.00

*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18

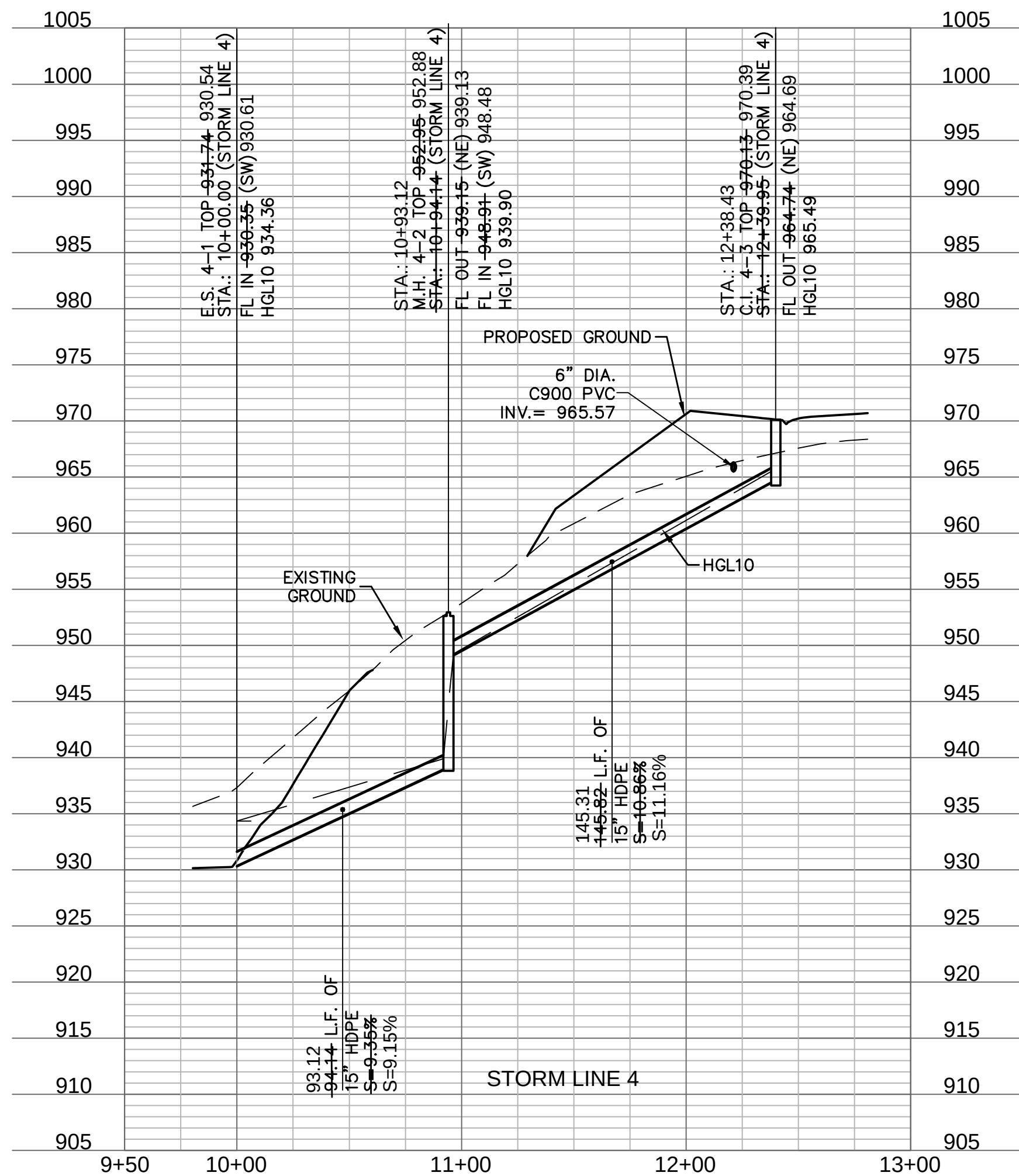
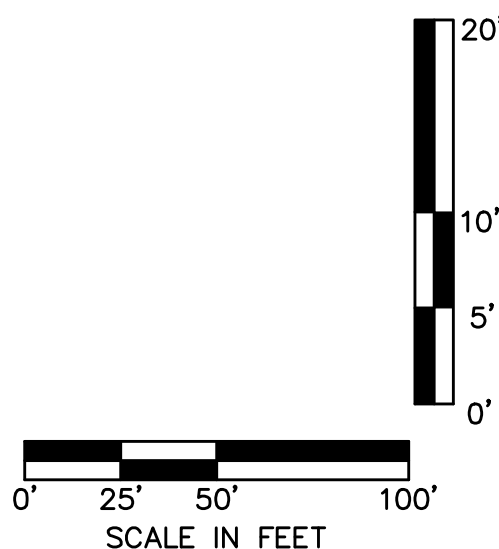
13.71



ASBUILT
03-24-2022

Accepted
Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



STORM SEWER PLAN & PROFILE
STREET & STORM SEWER PLANS

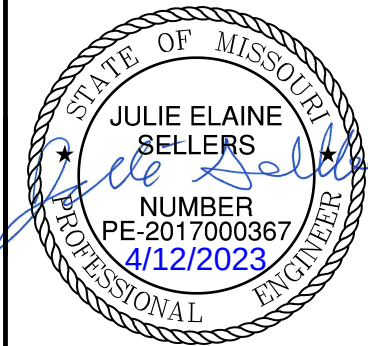
WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C118

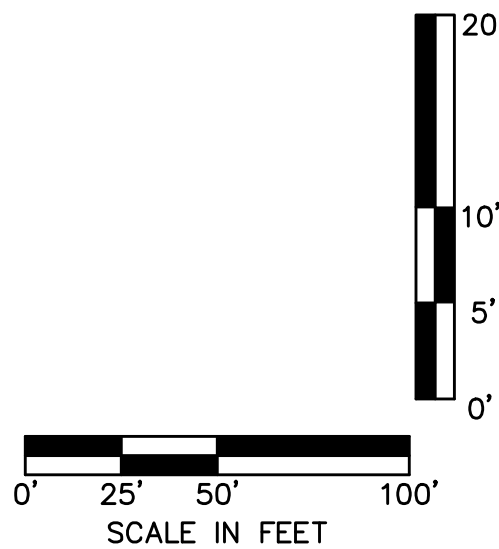
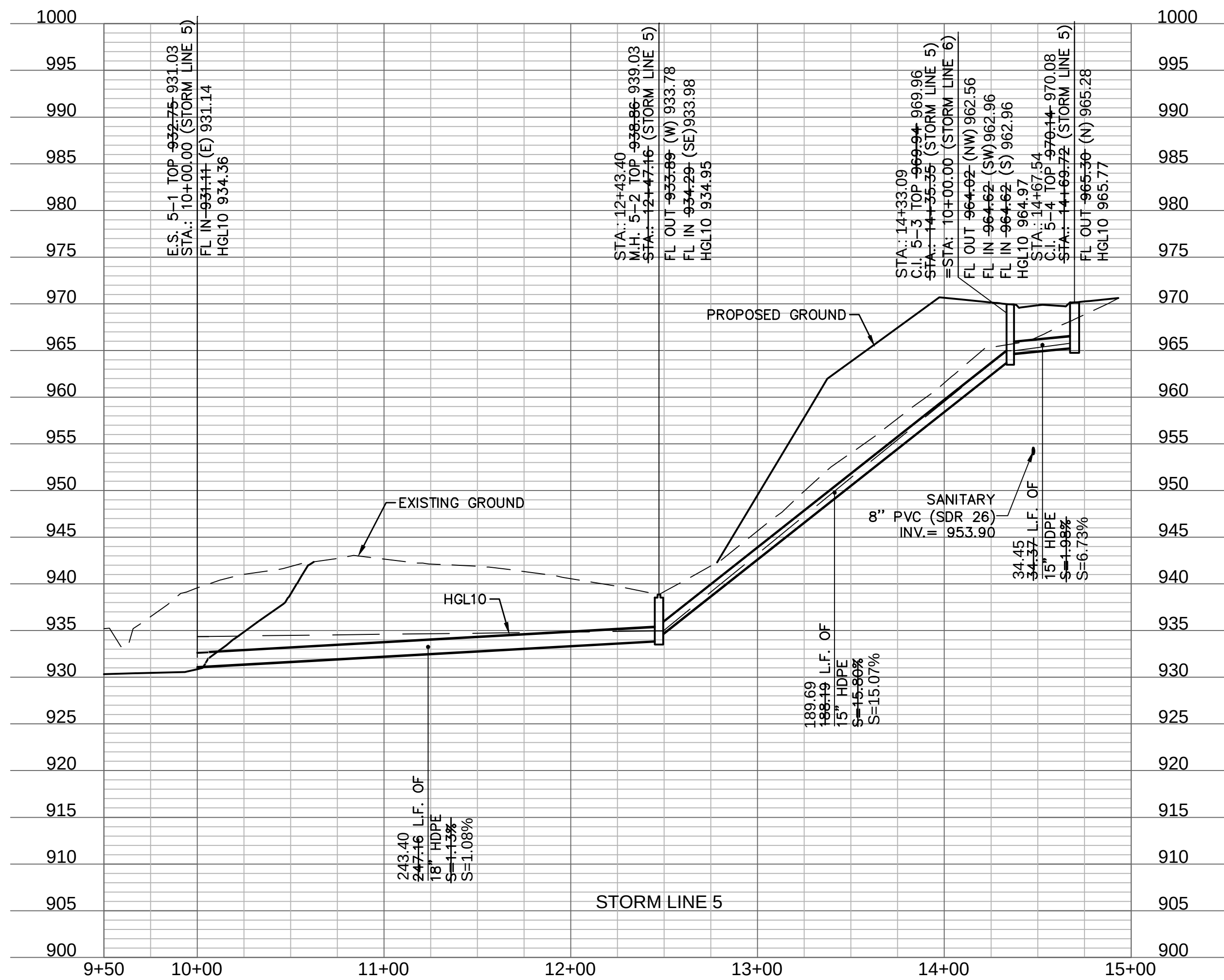
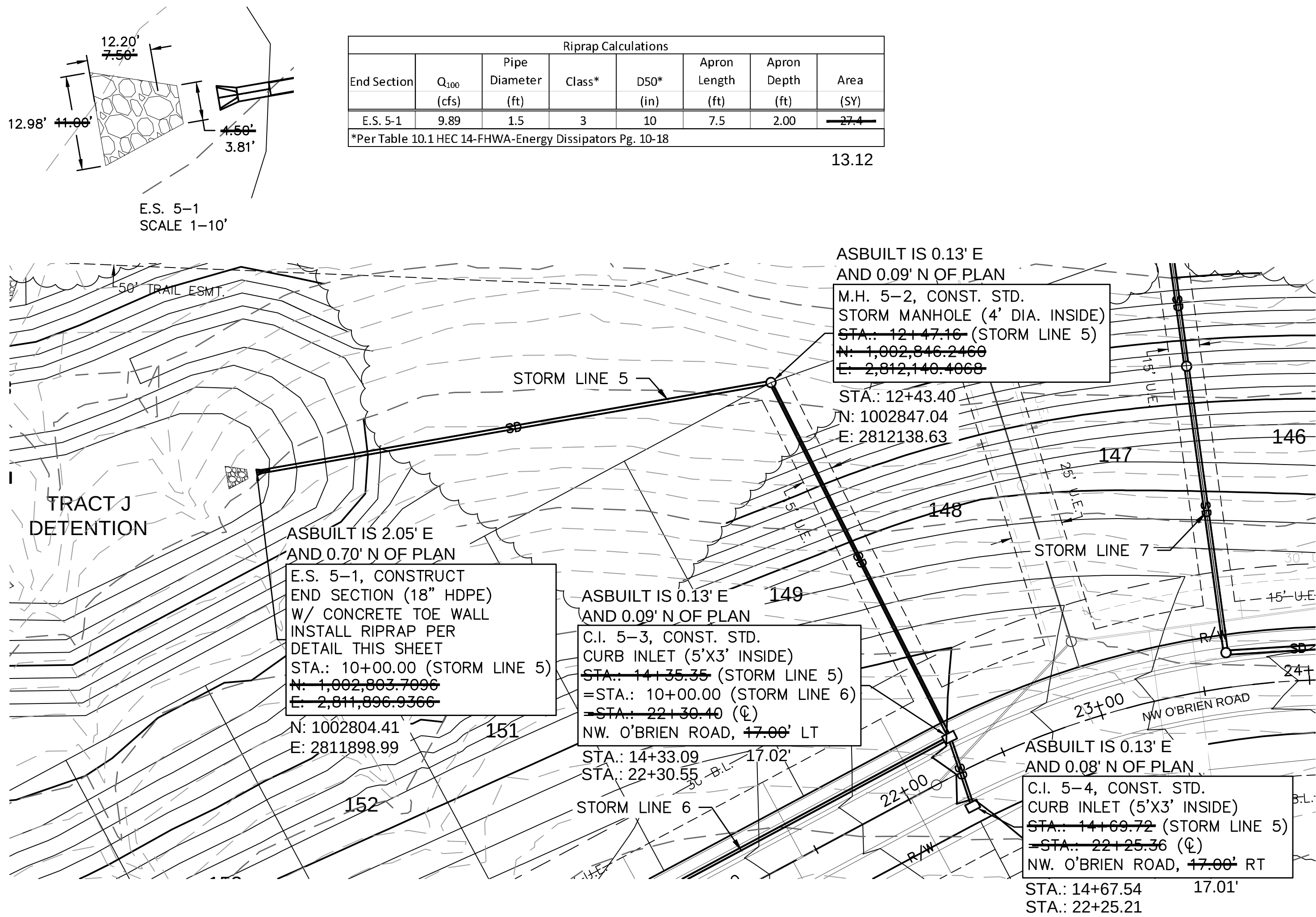


NO. REV.		DATE	REVISIONS DESCRIPTION
2		3/16/2021	REVISED PER CONTRACTOR COMMENT

REVISIONS

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NO. 018-1140-001
303 RUPING STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM



Accepted
Record Drawings

These plans have been reviewed for
accuracy and are accepted for basic
conformance to the approved
construction drawings.

STORM SEWER PLAN & PROFILE
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

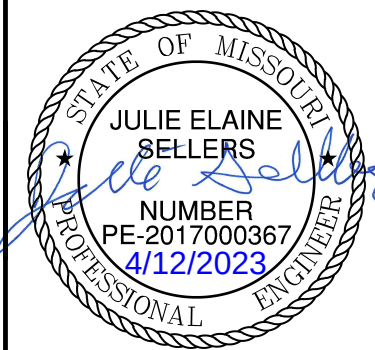
NO. REV. DATE

2 3/16/2021

REVISIONS DESCRIPTION

REVISED PER CONTRACTOR COMMENT

BY

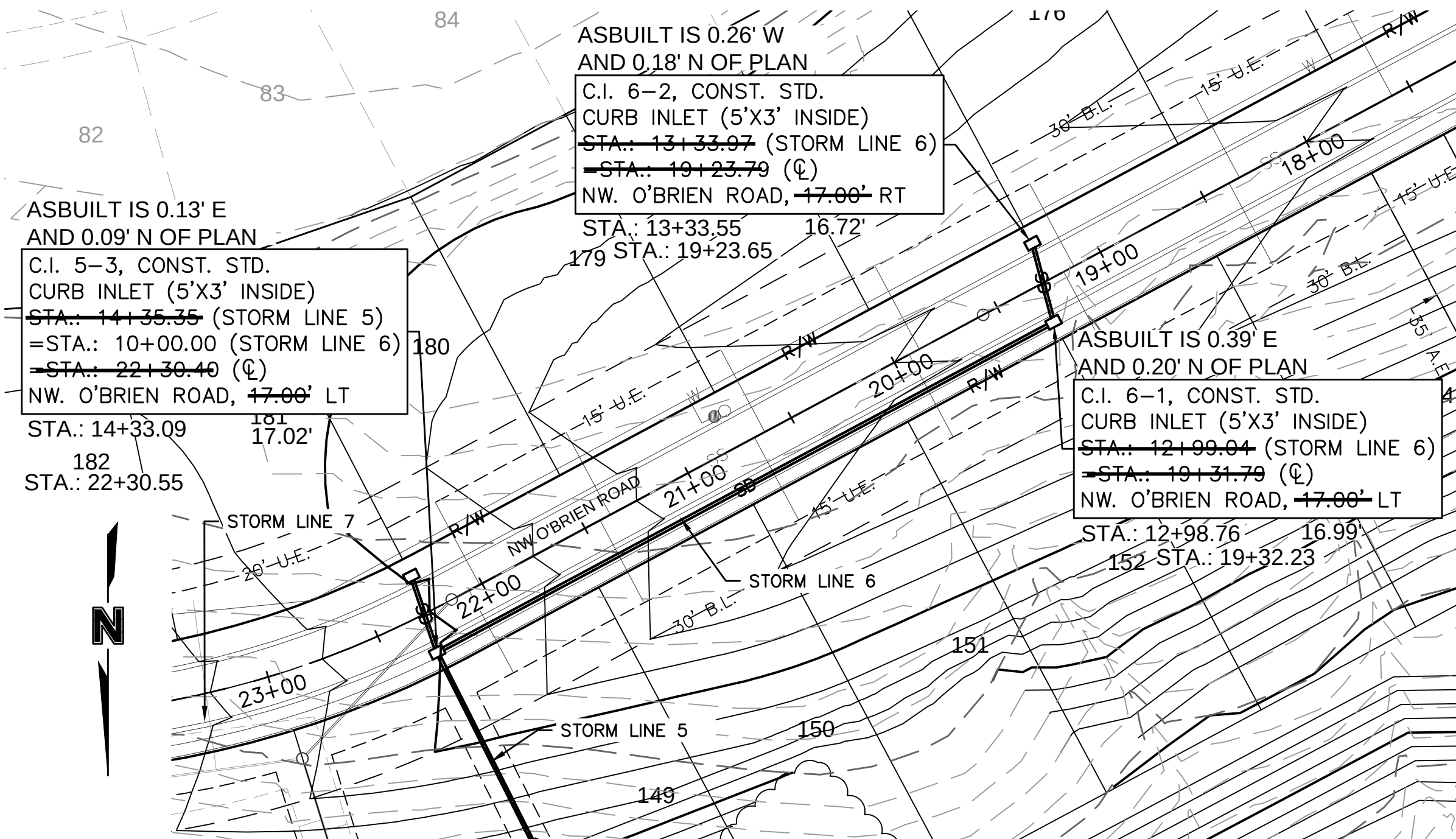


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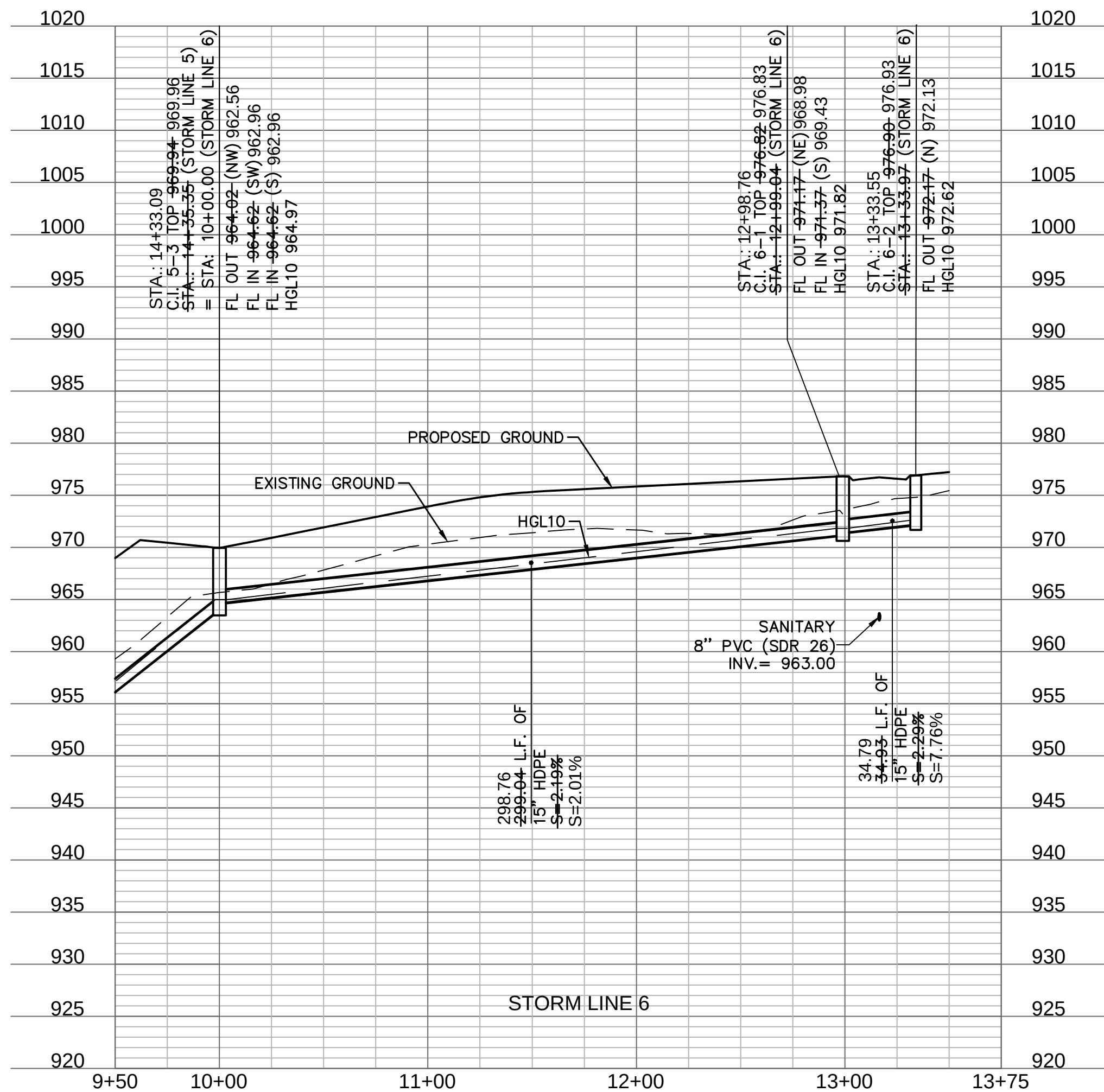
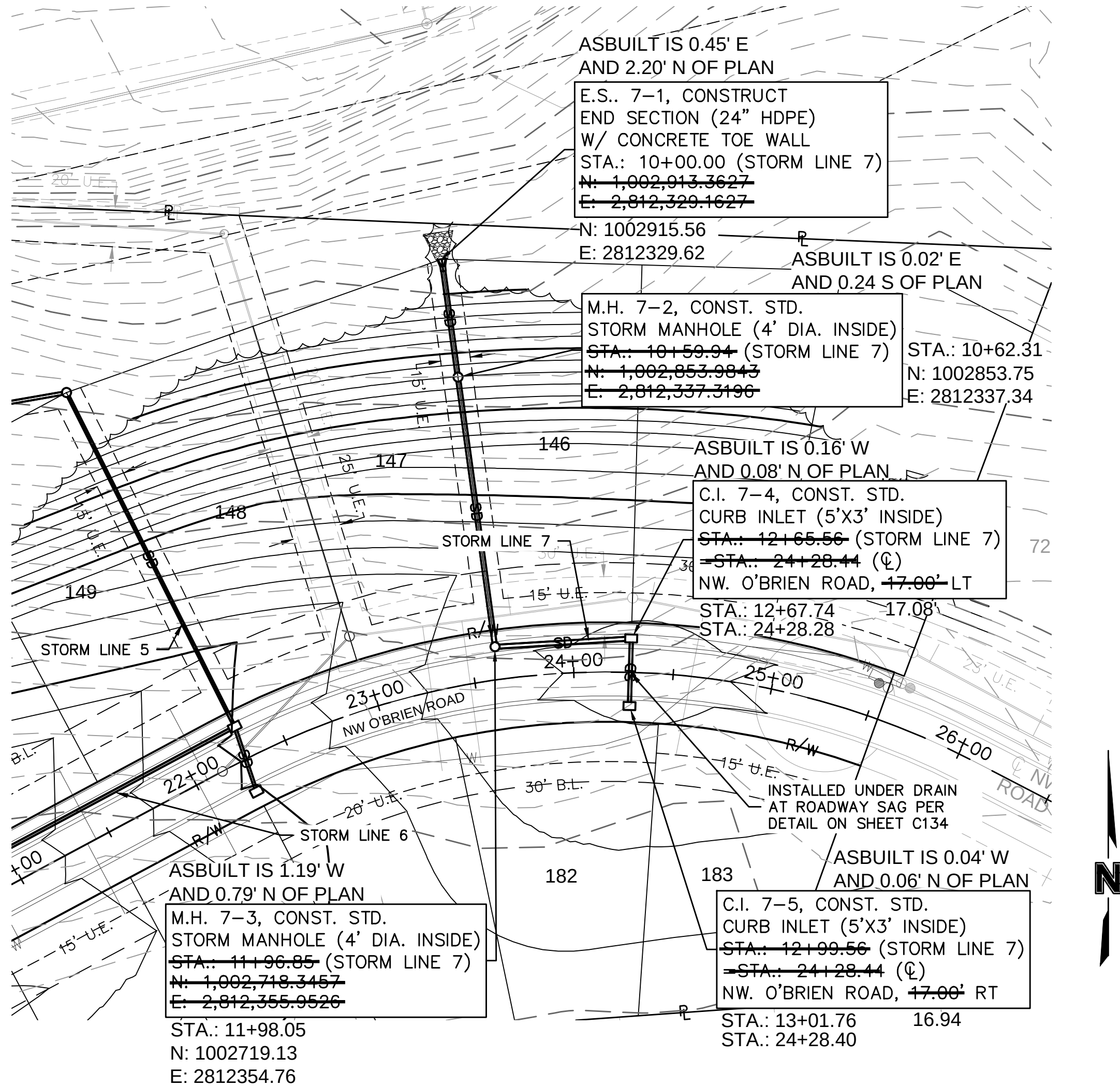
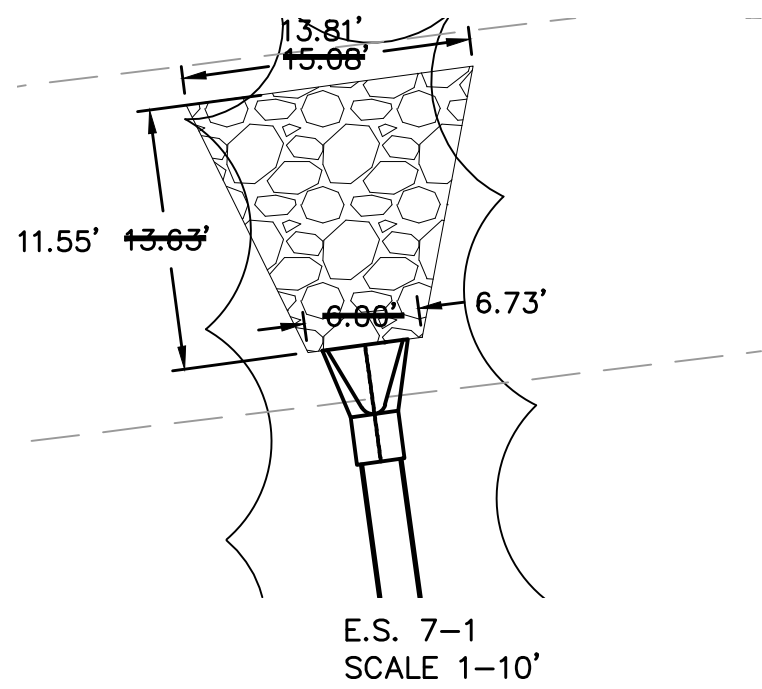
NO. 001192
301 E. BIRCH STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.381.1177
WWW.OLSSON.COM

SHEET
C119

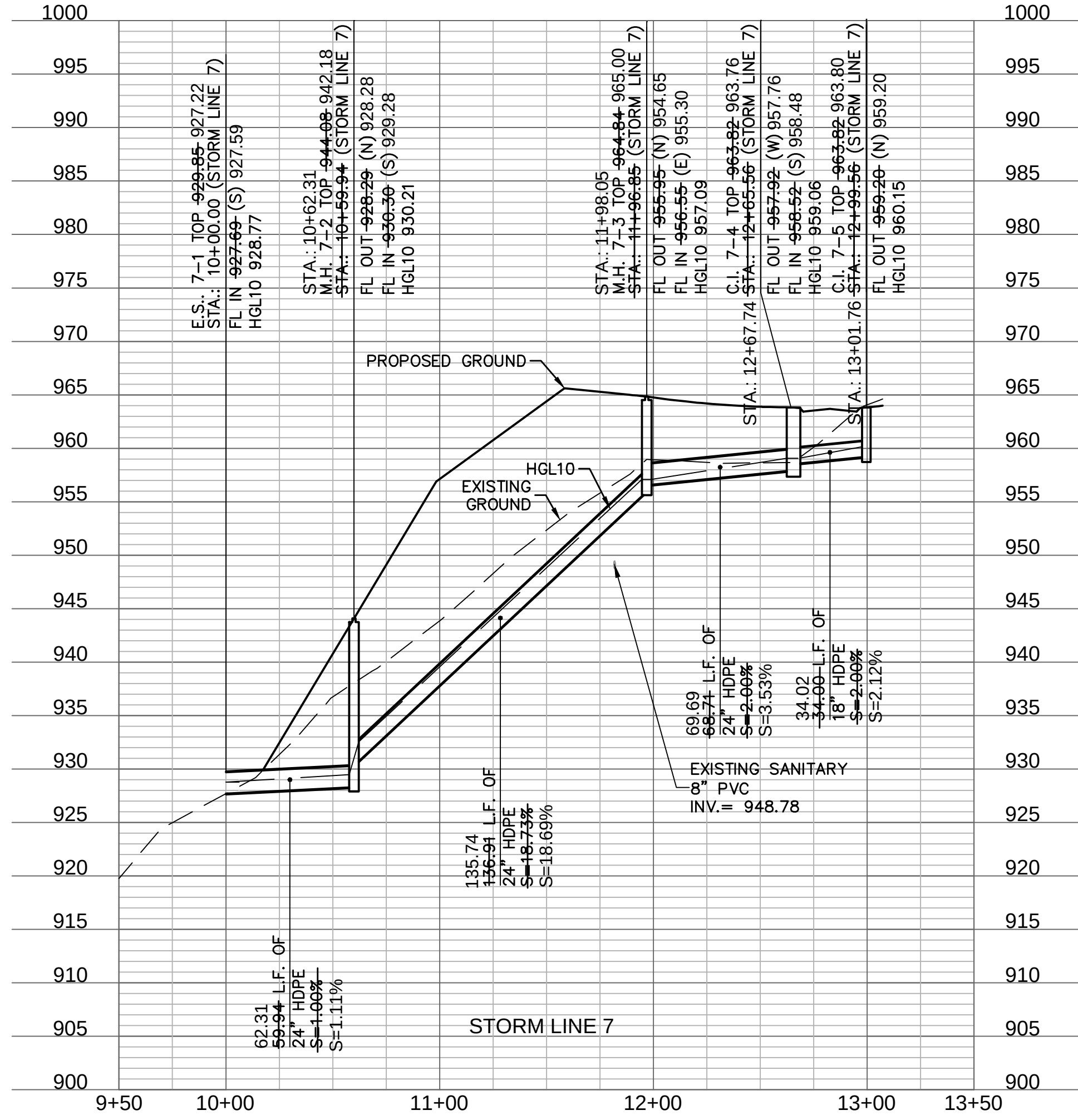
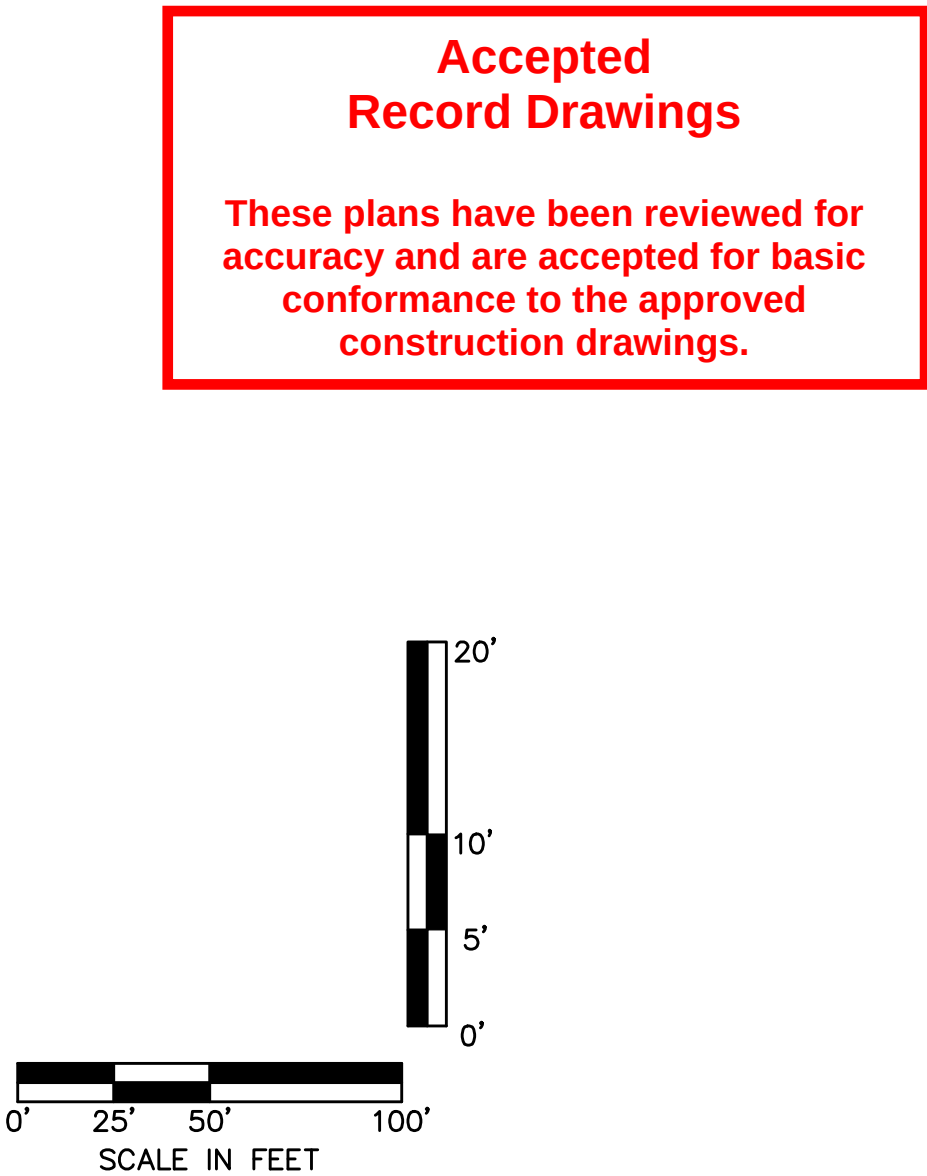
drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10



Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 7-1	18.97	2	3	10	10	2.00
*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18						12.40



ASBUILT
03-24-2022



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300 E. MAIN STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER

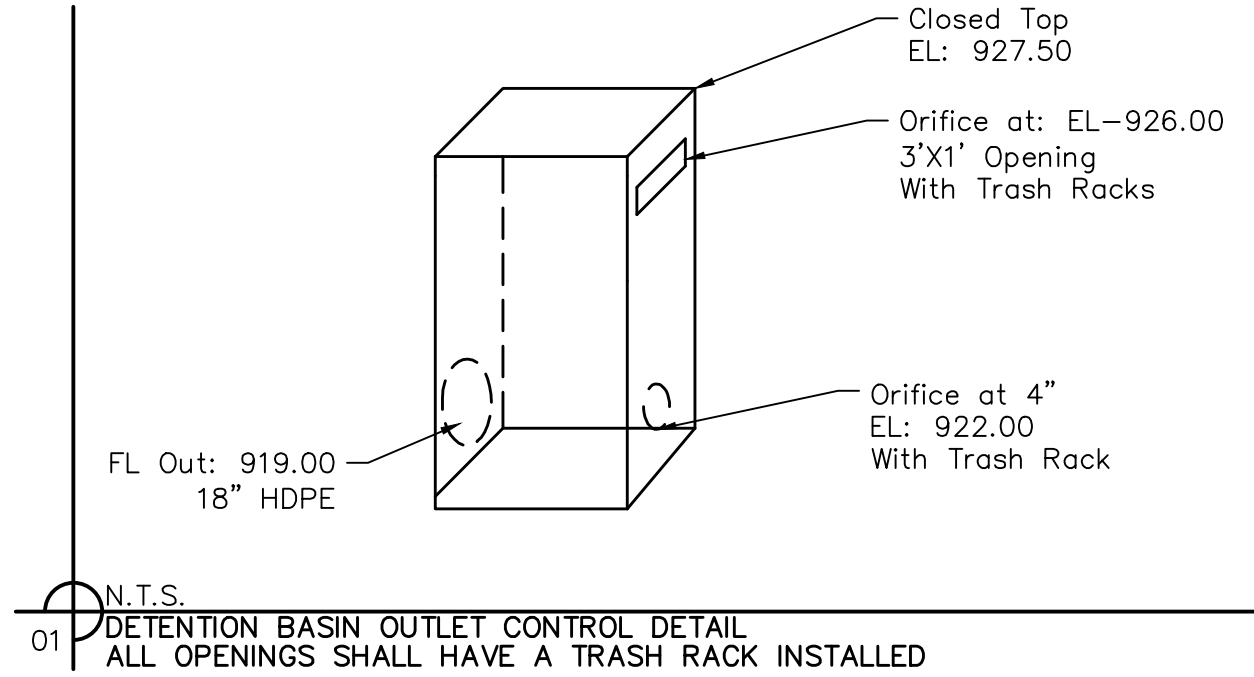
BY: _____
NO. REV. _____
DATE 3/16/2021
REVISED PER CONTRACTOR COMMENT

STORM SEWER PLAN & PROFILE
STREET & STORM SEWER PLANS
WOODSIDE RIDGE
SECOND PLAT
LEE'S SUMMIT, MO

2020

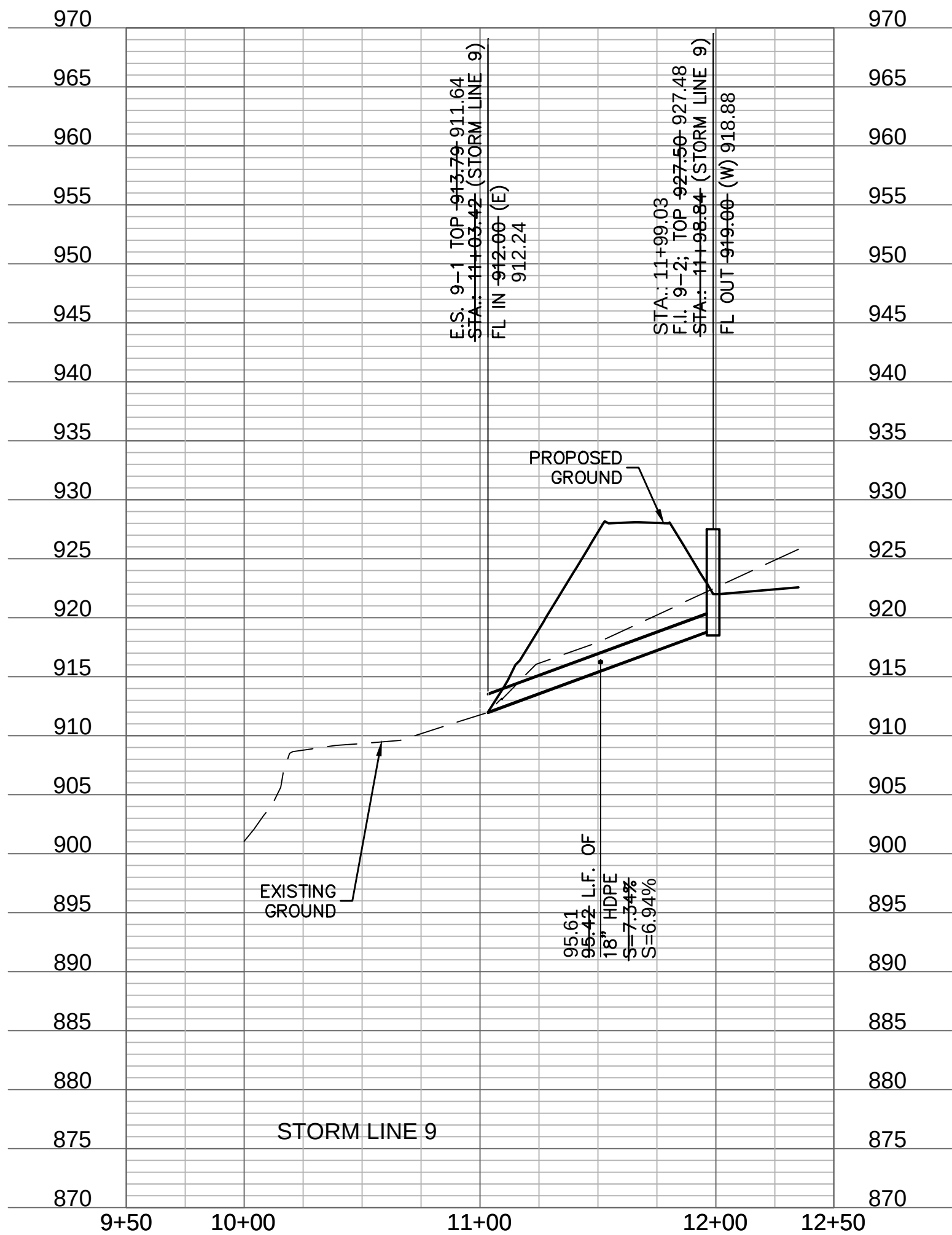
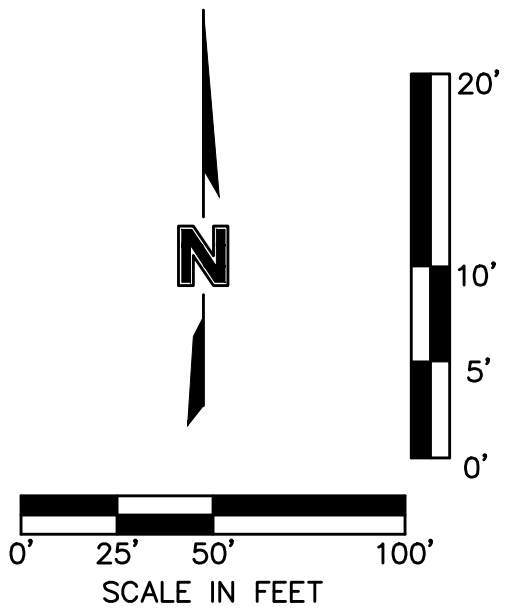
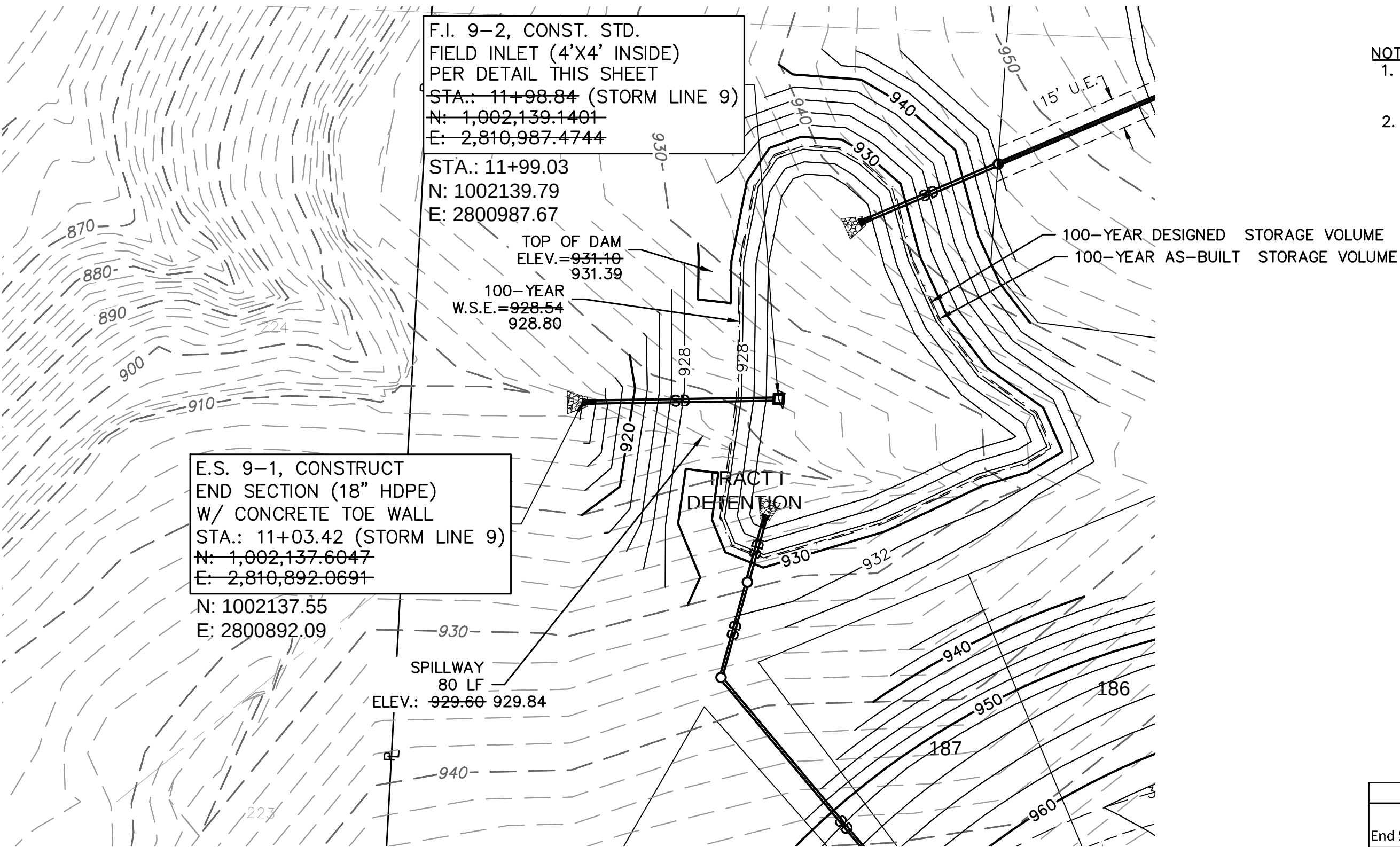
drawn by: _____ C.S.M.
checked by: _____ S.M.S.
designed by: _____ C.S.M.
QA/QC by: _____ J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C120

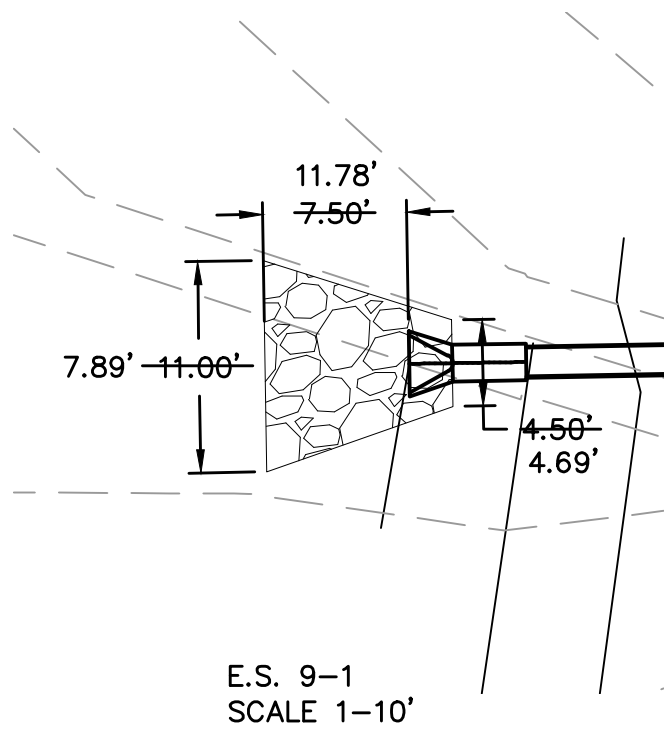


EARTHWORK QUANTITIES	
CUT (C.Y.)	FILL (C.Y.)
6,485	2,184

10yr. W.S.E.	100yr. W.S.E.
926.73	928.54



- NOTES:
1. CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DEWATERING NECESSARY FOR CONSTRUCTION. DEWATERING SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE STRUCTURE DIMENSIONS, INVERTS, AND STRUCTURAL REINFORCEMENT DETAILS ON THE PRINCIPAL SPILLWAY.



Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 9-1	23.91	1.5	3	10	7.5	2.00
*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18						23.88

ASBUILT
03-24-2022

Accepted
Record Drawings

These plans have been reviewed for
accuracy and are accepted for basic
conformance to the approved
construction drawings.

NOTES:
1. CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DEWATERING NECESSARY FOR CONSTRUCTION. DEWATERING SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE STRUCTURE DIMENSIONS, INVERTS, AND STRUCTURAL REINFORCEMENT DETAILS ON THE PRINCIPAL SPILLWAY.

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER

BY

REVISIONS DESCRIPTION

NO. REV.

DATE

DETENTION BASIN PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

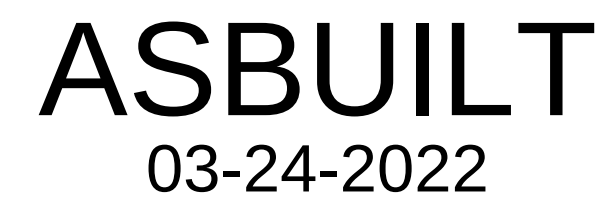
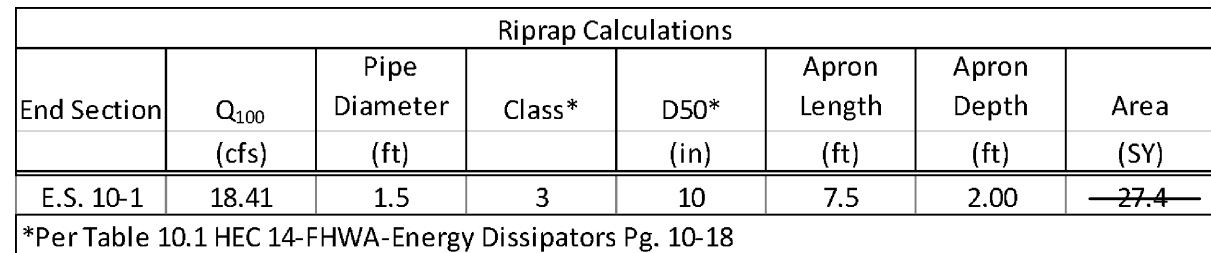
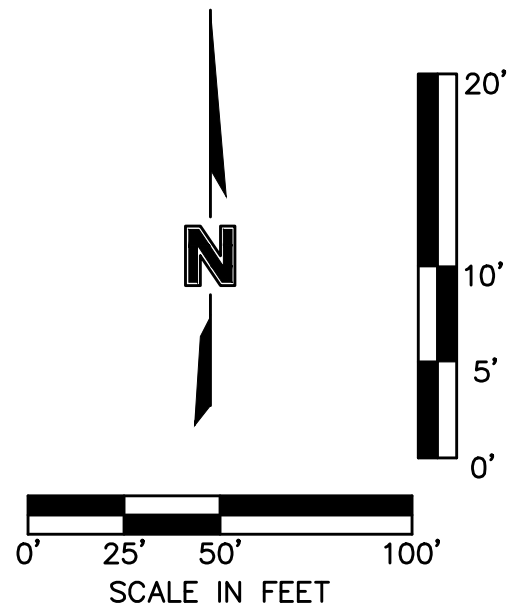
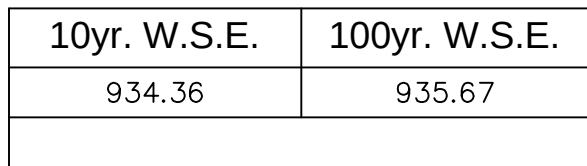
LEE'S SUMMIT, MO

2020

SHEET
C121

drawn by: _____ C.S.M.
checked by: _____ S.M.S.
designed by: _____ C.S.M.
QA/QC by: _____ J.E.S.
project no.: C18-1140
date: 2020.07.10

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TEL 816.861.1177



NOTES:

1. CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DEWATERING NECESSARY FOR CONSTRUCTION. DEWATERING SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE STRUCTURE DIMENSIONS, INVERTS, AND STRUCTURAL REINFORCEMENT DETAILS ON THE PRINCIPAL SPILLWAY.

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

USER: ssaylor

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilts\Sheets\GNCV\Street & Storm\C.DRN02-C181140.dwg
DATE: Oct 17, 2022 12:44pm



KEY MAP

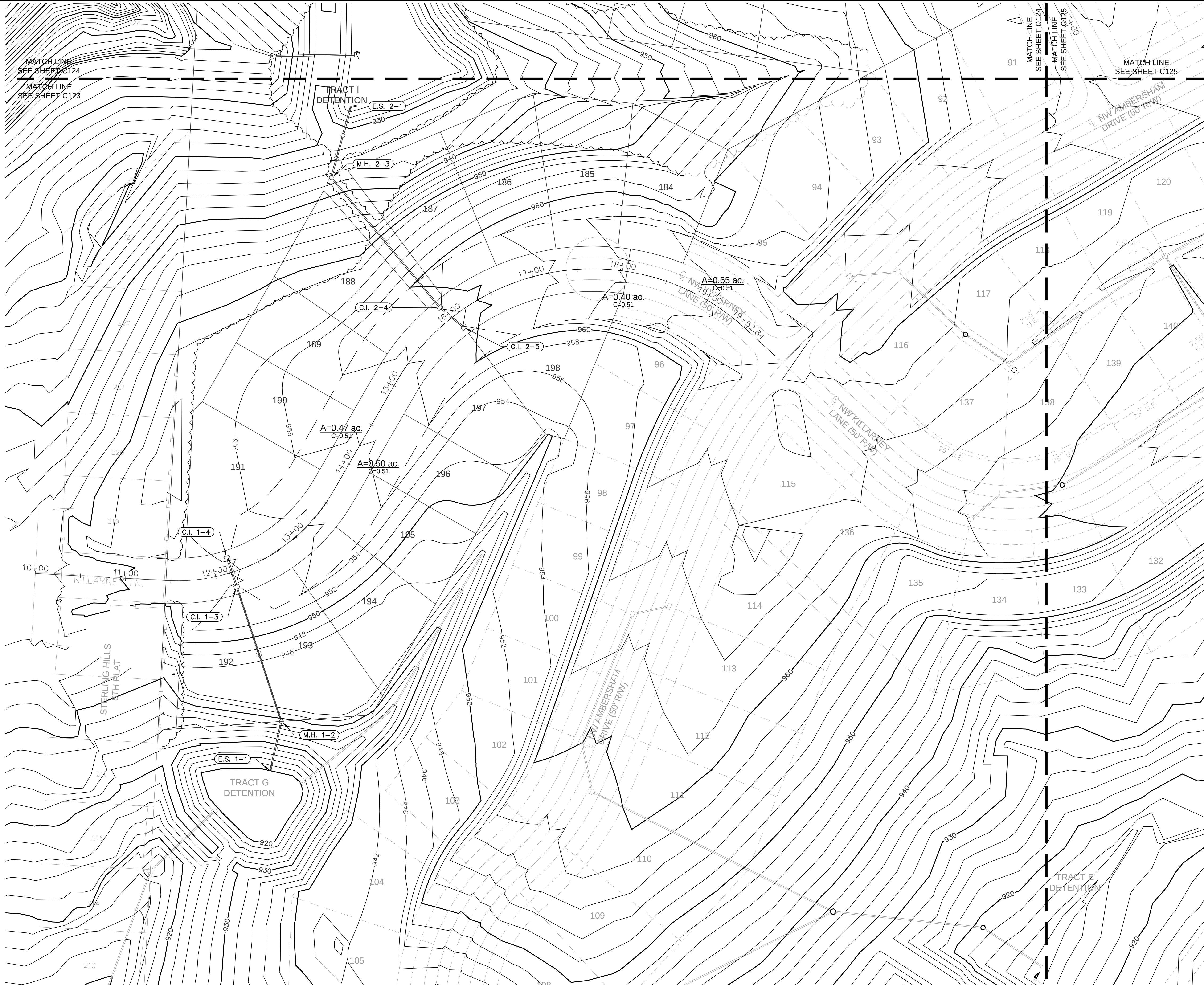
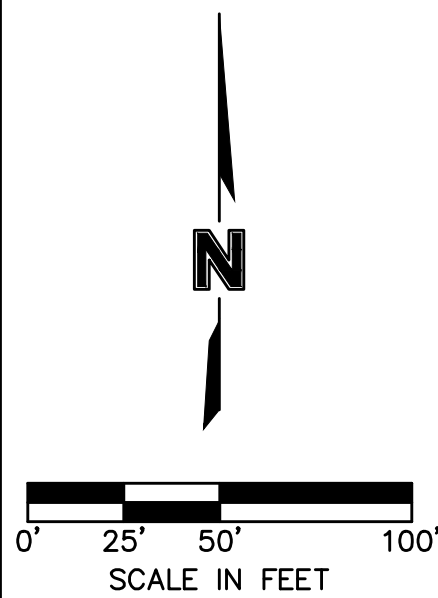
LEGEND	
	FINISHED INDEX CONTOURS
	FINISHED INTERMEDIATE CONTOURS
	RIDGE LINE
	DRAINAGE AREA
	RUNOFF COEFFICIENT
	STORM STRUCTURE NUMBER

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 3. BUFFER ZONE FOR NATURAL STREAMS IS LOCATED WITHIN PLAT.
 4. MLO ELEVATIONS HAVE BEEN PROVIDED AT EACH LOT CORNER. INTERPOLATION WILL BE ALLOWED BETWEEN CORNER MBOES SHOWN ON THE MASTER DRAINAGE PLAN, DEPENDING ON THE LOCATION OF THE LOWEST OPENING ON THE PROPOSED STRUCTURE.
 5. NO BUILDING PERMITS WILL BE ISSUED UNTIL AN AS-GRADED MASTER DRAINAGE PLAN HAS BEEN SUBMITTED TO THE CITY AND APPROVED BY THE CITY.

NOT ASBUILT

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olsson

NO Confession of Authority until 08/09/22
300 E. BURNING TREE BLVD SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.861.1177
www.olson.com

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER

BY: [Signature]
NO. REV. [] DATE []
REVISIONS DESCRIPTION []

DRAINAGE PLAN
STREET & STORM SEWER PLANS
WOODSIDE RIDGE
SECOND PLAT
LEE'S SUMMIT, MO
2020

drawn by: [] C.S.M.
checked by: [] S.M.S.
designed by: [] C.S.M.
QA/QC by: [] J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C123

USER: ssaylor

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilt\Sheets\GNCV\Street & Storm\C_DRN02_C181140.dwg
DATE: Oct 17, 2022 12:44pm



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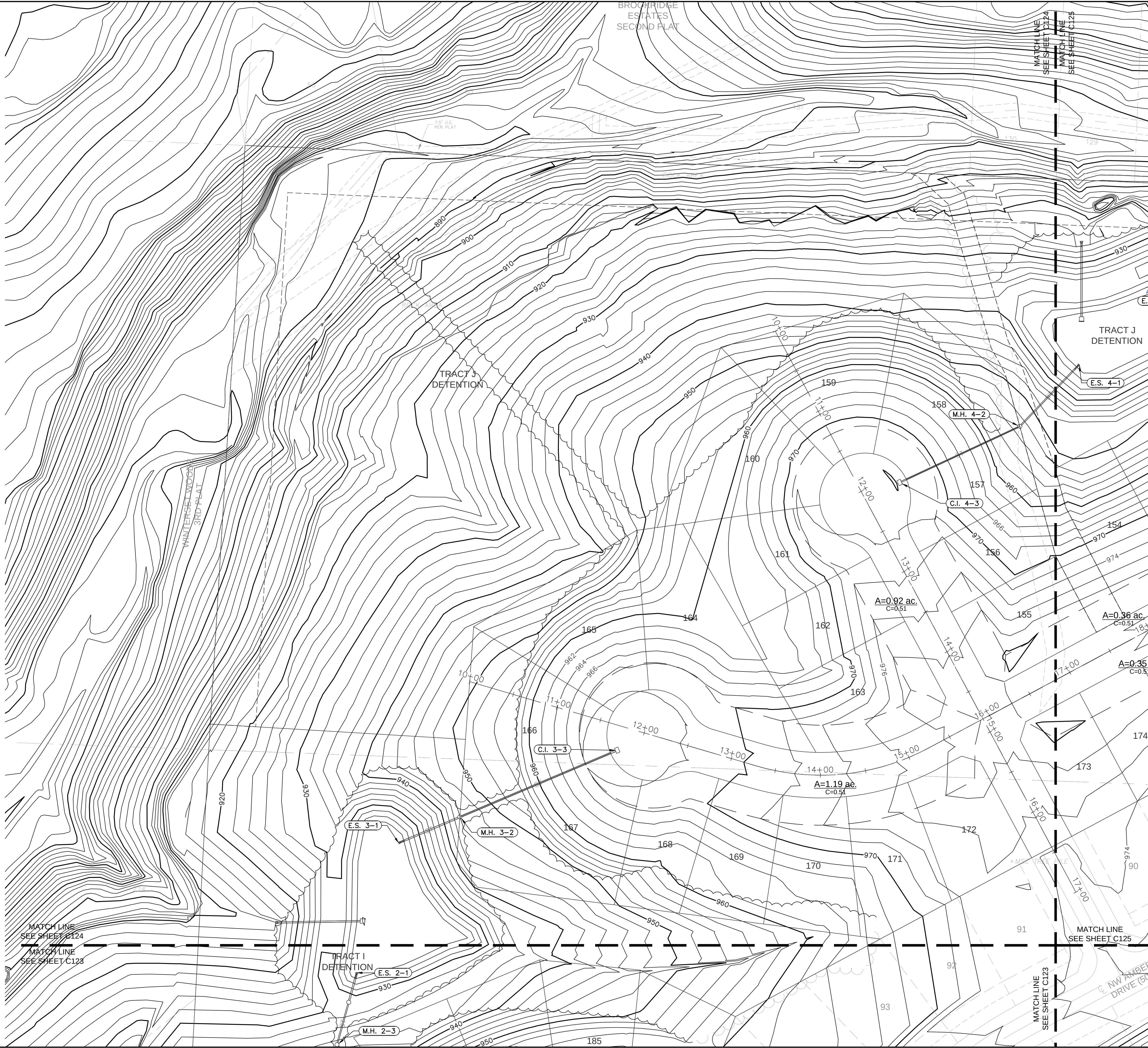
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0 25' 50' 100'
SCALE IN FEET



BY

NO.

REV.

DATE

REVISIONS DESCRIPTION

STATE OF MISSOURI

JULIE ELAINE SELLERS

NUMBER PE-2017000367

4/12/2023

PROFESSIONAL ENGINEER

DRAINAGE PLAN

STREET & STORM SEWER PLANS

WOODSIDE RIDGE

SECOND PLAT

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drawn by: _____ C.S.M.

checked by: _____ S.M.S.

designed by: _____ C.S.M.

QA/QC by: _____ J.E.S.

project no.: C18-1140

date: 2020.07.10

SHEET

C124

olsson

NO Conflicts of Interest at 081892
303 E. BURLINGAME ST. SUITE 100
NORTH KANSAS CITY, MO 64116
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USER: ssaylor

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DATE: Oct 17, 2022 12:44pm



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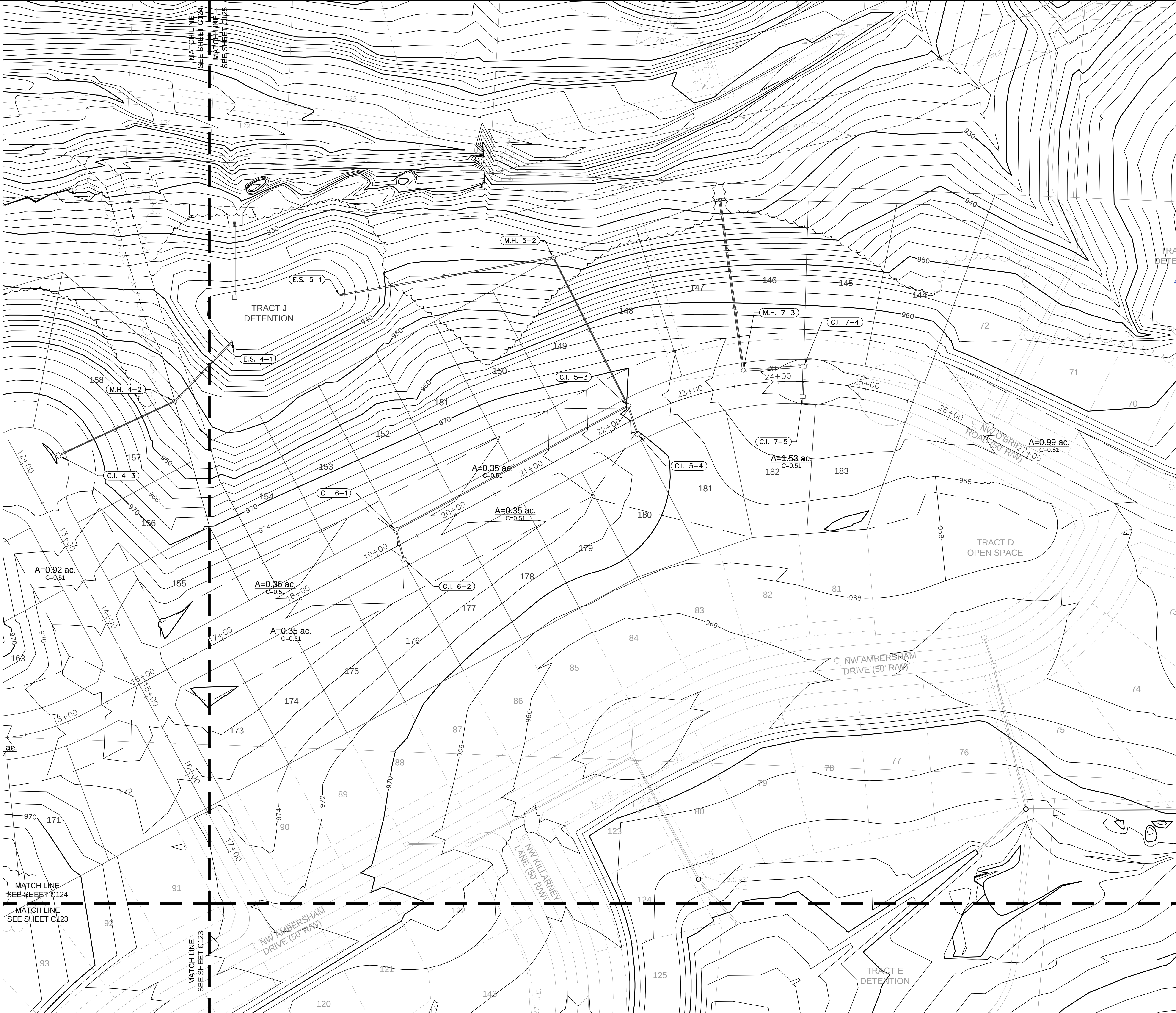
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SCALE IN FEET



BY

NO. REV.

DATE

REVISIONS DESCRIPTION

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Storm Sewer Design Calculation Table												
10 Year Return Frequency												
Upstream Structure	Downstream Structure	Length (ft)	Upstream Invert (ft)	Downstream Invert (ft)	Slope (%)	Diameter (in)	Manning's n	Total Flow (cfs)	Velocity (ft/s)	Capacity (cfs)	Flow Depth (ft)	Upstream Struct. HGL (ft)
M.H. 5-2	Outfall	253.96	933.89	930.00	1.53	18	0.012	5.48	3.60	14.08	1.50	934.95
C.I. 5-3	M.H. 5-2	188.19	964.02	934.29	15.80	15	0.012	5.48	6.22	27.80	0.77	964.97
C.I. 6-1	C.I. 5-3	299.05	971.17	964.62	2.19	15	0.012	2.66	5.58	10.35	0.43	971.82
C.I. 6-2	C.I. 6-1	34.93	972.17	971.37	2.29	15	0.012	1.31	3.27	10.59	0.45	972.62j
C.I. 5-4	C.I. 5-3	34.40	965.30	964.62	1.98	15	0.012	1.41	4.20	9.84	0.35	965.77
M.H. 7-2	Outfall	42.64	925.43	925.00	1.01	24	0.012	10.22	6.48	24.61	0.90	926.57
M.H. 7-3	M.H. 7-2	178.96	955.95	925.75	16.88	24	0.012	10.22	6.94	100.66	0.82	957.09
C.I. 7-4	M.H. 7-3	68.71	957.92	956.55	1.99	24	0.012	10.22	7.54	34.60	0.75	959.06
C.I. 7-5	C.I. 7-4	34.00	959.20	958.52	2.00	18	0.012	6.12	6.82	16.09	0.64	960.15
M.H. 2-2	Outfall	33.74	922.67	922.00	1.99	18	0.012	3.94	2.23	16.03	1.50	926.77
M.H. 2-3	M.H. 2-2	48.32	931.95	925.78	12.77	15	0.012	3.94	4.20	25.00	1.02	932.75j
C.I. 2-4	M.H. 2-3	187.22	952.46	932.55	10.63	15	0.012	3.94	9.33	22.81	0.35	953.26
C.I. 2-5	C.I. 2-4	34.74	954.94	953.96	2.82	15	0.012	1.50	4.99	11.75	0.30	955.42
M.H. 4-2	Outfall	91.51	939.15	930.00	10.00	15	0.012	3.45	3.65	22.12	1.25	939.90j
C.I. 4-3	M.H. 4-2	145.82	964.74	948.91	10.86	15	0.012	3.45	8.99	23.05	0.33	965.49
M.H. 1-2	Outfall	55.95	921.68	920.00	3.00	15	0.012	4.34	3.54	12.12	1.25	924.90
C.I. 1-3	M.H. 1-2	156.54	946.25	935.08	7.14	15	0.012	4.34	8.66	18.69	0.41	947.09
C.I. 1-4	C.I. 1-3	34.01	947.53	946.85	2.00	15	0.012	2.27	5.21	9.89	0.41	948.13
M.H. 3-2	Outfall	73.02	923.46	922.00	2.00	18	0.012	4.46	2.52	16.09	1.50	926.84
C.I. 3-3	M.H. 3-2	188.00	960.16	942.02	9.65	18	0.012	4.46	9.13	35.34	0.36	960.97

Inlet Design Table													
10 Year Return Frequency													
Inlet ID	Inlet Location	Peak Flow	Upstream Bypass	Total Flow	Clogging Factor	Inlet Capacity	Sag Inlet Capacity (Note 1)	Captured Flow	Bypass Flow	Inlet Efficiency (Note 2)	Gutter Depth	Gutter Spread	Ponding Depth
		(cfs)	(cfs)	(cfs)		(cfs)	(cfs)	(cfs)	(cfs)	(%)	(ft)	(ft)	(ft)
C.I. 5-3	GRADE	1.31	0.10	1.41	1.00	1.12	1.12	1.12	0.29	79.64%	0.12	5.85	...
C.I. 5-4	GRADE	1.31	0.09	1.41	1.00	1.12	1.12	1.12	0.29	79.72%	0.12	5.85	...
C.I. 6-1	GRADE	1.35	0.00	1.35	1.00	1.25	1.25	1.25	0.10	92.60%	0.15	7.46	...
C.I. 6-2	GRADE	1.31	0.00	1.31	1.00	1.22	1.22	1.22	0.09	92.83%	0.15	7.38	...
C.I. 7-4(L)	SAG	0.75	0.39	1.14	0.80	19.40	15.52	1.14	0.00	100.00%	0.14	6.76	...
C.I. 7-4(R)	SAG	2.25	0.00	2.25	0.80	19.40	15.52	2.25	0.00	100.00%	0.14	6.97	...
C.I. 7-4(B)	SAG	0.71	0.00	0.71	0.80	19.40	15.52	0.71	0.00	100.00%	...	...	...
C.I. 7-4	SAG	3.71	0.39	4.10	0.80	19.40	15.52	4.10	0.00	100.00%	...	...	...
C.I. 7-5(L)	SAG	2.25	0.38	2.63	0.80	19.40	15.52	2.63	0.00	100.00%	0.15	7.39	...
C.I. 7-5(R)	SAG	1.61	0.00	1.61	0.80	19.40	15.52	1.61	0.00	100.00%	0.15	7.71	...
C.I. 7-5(B)	SAG	1.88	0.00	1.88	0.80	19.40	15.52	1.88	0.00	100.00%	...	...	...
C.I. 7-5	SAG	5.74	0.38	6.12	0.80	19.40	15.52	6.12	0.00	100.00%	...	...	...
C.I. 4-3(L)	SAG	2.29	0.00	2.29	0.80	19.40	15.52	2.29	0.00	100.00%	0.14	7.13	...
C.I. 4-3(R)	SAG	0.53	0.00	0.53	0.80	19.40	15.52	0.53	0.00	100.00%	0.10	5.03	...
C.I. 4-3(B)	SAG	0.64	0.00	0.64	0.80	19.40	15.52	0.64	0.00	100.00%	...	...	...
C.I. 4-3	SAG	3.45	0.00	3.45	0.80	19.40	15.52	3.45	0.00	100.00%	...	...	...
C.I. 3-3(L)	SAG	1.99	0.00	1.99	0.80	19.40	15.52	1.99	0.00	100.00%	0.17	8.59	...
C.I. 3-3(R)	SAG	1.80	0.00	1.80	0.80	19.40	15.52	1.80	0.00	100.00%	0.16	7.77	...
C.I. 3-3(B)	SAG	0.68	0.00	0.68	0.80	19.40	15.52	0.68	0.00	100.00%	...	...	...
C.I. 3-3	SAG	4.46	0.00	4.46	0.80	19.40	15.52	4.46	0.00	100.00%	...	...	...
C.I. 2-4	GRADE	2.44	0.00	2.44	1.00	1.93	1.93	1.93	0.51	79.16%	0.17	8.26	...
C.I. 2-5	GRADE	1.50	0.00	1.50	1.00	1.30	1.30	1.30	0.20	86.81%	0.14	6.88	...
C.I. 1-3	GRADE	1.88	0.20	2.07	1.00	1.69	1.69	1.69	0.39	81.41%	0.15	7.69	...
C.I. 1-4	GRADE	1.76	0.51	2.27	1.00	1.81	1.81	1.81	0.46	79.80%	0.16	7.96	...
Notes:													
1. Inlet capacity at sag location has been reduced by a dogging factor of 0.80, reducing theoretical capacity to 80% capacity, as required per APWA Section 5600.													
Both theoretical capacity and reduced capacity are shown.													
2. Inlet efficiency shown in the tables is Captured Flow/Total Flow, denoting the actual percentage of flow captured after the capacity has been reduced to 80% of theoretical capacity.													

Drainage Area Design Table						
10 Year Return Frequency						
Inlet ID	Drainage Area	C	Tc	i	K	Peak Flow
	(ac)		(min)	(in/hr)		(cfs)
C.I. 5-3	0.35	0.51	5.00	7.35	1.00	1.31
C.I. 5-4	0.35	0.51	5.00	7.35	1.00	1.31
C.I. 6-1	0.36	0.51	5.00	7.35	1.00	1.35
C.I. 6-2	0.35	0.51	5.00	7.35	1.00	1.31
C.I. 7-4(L)	0.20	0.51	5.00	7.35	1.00	0.75
C.I. 7-4(R)	0.60	0.51	5.00	7.35	1.00	2.25
C.I. 7-4(B)	0.19	0.51	5.00	7.35	1.00	0.75
C.I. 7-4	0.99	0.51	5.00	7.35	1.00	3.71
C.I. 7-5(L)	0.60	0.51	5.00	7.35	1.00	2.25
C.I. 7-5(R)	0.43	0.51	5.00	7.35	1.00	1.61
C.I. 7-5(B)	0.50	0.51	5.00	7.35	1.00	1.88
C.I. 7-5	1.53	0.51	5.00	7.35	1.00	5.74
C.I. 4-3(L)	0.61	0.51	5.00	7.35	1.00	2.29
C.I. 4-3(R)	0.14	0.51	5.00	7.35	1.00	0.53
C.I. 4-3(B)	0.17	0.51	5.00	7.35	1.00	0.64
C.I. 4-3	0.92	0.51	5.00	7.35	1.00	3.45
C.I. 3-3(L)	0.53	0.51	5.00	7.35	1.00	1.99
C.I. 3-3(R)	0.48	0.51	5.00	7.35	1.00	1.80
C.I. 3-3(B)	0.18	0.51	5.00	7.35	1.00	0.68
C.I. 3-3	1.19	0.51	5.00	7.35	1.00	4.46
C.I. 2-4	0.65	0.51	5.00	7.35	1.00	2.44
C.I. 2-5	0.40	0.51	5.00	7.35	1.00	1.50
C.I. 1-3	0.50	0.51	5.00	7.35	1.00	1.88
C.I. 1-4	0.47	0.51	5.00	7.35	1.00	1.76

Accepted
Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

10 YEAR DRAINAGE TABLES
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

BY

NO. REV. 2

DATE 3/16/2021

REVISIONS DESCRIPTION

REVISED PER CONTRACTOR COMMENT

REVISIONS

drawn by: C.S.M
checked by: S.M.S
designed by: C.S.M
QA/QC by: J.E.S
project no.: C18-1140
date: 2020.07.10

SHEET
C126

olsson

Professional Engineer
JULIE ELAINE SELLERS
NUMBER PE-2017000367
4/12/2023

NSP Certificate of Authority #041692
303 E. BURNING STAR BLVD, SUITE 100
NORTH KANSAS CITY, MO 64116
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NOT ASBUILT

100 Year Return Frequency												
Upstream Structure	Downstream Structure	Length (ft)	Upstream Invert (ft)	Downstream Invert (ft)	Slope (%)	Diameter (in)	Manning's n	Total Flow (cfs)	Velocity (ft/s)	Capacity (cfs)	Flow Depth (ft)	Upstream Struct. HGL (ft)
M.H. 5-2	Outfall	253.96	933.89	930.00	1.53	18	0.012	9.89	5.60	14.08	1.50	937.59
C.I. 5-3	M.H. 5-2	188.19	964.02	934.29	15.80	15	0.012	9.89	8.15	27.80	1.25	965.20
C.I. 6-1	C.I. 5-3	299.05	971.17	964.62	2.19	15	0.012	4.67	6.65	10.35	0.59	972.05
C.I. 6-2	C.I. 6-1	34.93	972.17	971.37	2.29	15	0.012	2.30	3.65	10.59	0.68	972.78
C.I. 5-4	C.I. 5-3	34.40	965.30	964.62	1.98	15	0.012	2.60	4.36	9.84	0.58	965.95
M.H. 7-2	Outfall	42.64	925.43	925.00	1.01	24	0.012	18.97	7.91	24.61	1.32	927.00
M.H. 7-3	M.H. 7-2	178.96	955.95	925.75	16.88	24	0.012	18.97	8.21	100.66	1.25	957.52
C.I. 7-4	M.H. 7-3	68.71	957.92	956.55	1.99	24	0.012	18.97	9.23	34.60	1.06	959.49
C.I. 7-5	C.I. 7-4	34.00	959.20	958.52	2.00	18	0.012	11.25	8.18	16.09	0.97	960.48
M.H. 2-2	Outfall	33.74	922.67	922.00	1.99	18	0.012	6.91	3.91	16.03	1.50	928.66
M.H. 2-3	M.H. 2-2	48.32	931.95	925.78	12.77	15	0.012	6.91	5.95	25.00	1.25	933.00
C.I. 2-4	M.H. 2-3	187.22	952.46	932.55	10.63	15	0.012	6.91	11.27	22.81	0.47	953.51
C.I. 2-5	C.I. 2-4	34.74	954.94	953.96	2.82	15	0.012	2.63	5.90	11.75	0.40	955.59
M.H. 4-2	Outfall	91.51	939.15	930.00	10.00	15	0.012	6.05	5.36	22.12	1.25	940.14
C.I. 4-3	M.H. 4-2	145.82	964.74	948.91	10.86	15	0.012	6.05	10.80	23.05	0.44	965.73
M.H. 1-2	Outfall	55.95	921.68	920.00	3.00	15	0.012	8.40	6.85	12.12	1.25	927.29
C.I. 1-3	M.H. 1-2	156.54	946.25	935.08	7.14	15	0.012	8.40	11.00	18.69	0.59	947.38
C.I. 1-4	C.I. 1-3	34.01	947.53	946.85	2.00	15	0.012	4.52	6.44	9.89	0.59	948.39
M.H. 3-2	Outfall	73.02	923.46	922.00	2.00	18	0.012	7.83	4.43	16.09	1.50	928.89
C.I. 3-3	M.H. 3-2	188.00	960.16	942.02	9.65	18	0.012	7.83	10.90	35.34	0.48	961.24

Inlet ID	Inlet Location	Peak Flow	Upstream Bypass	Total Flow	Clogging Factor	Inlet Capacity	Sag Inlet Capacity (Note 1)	Captured Flow	Bypass Flow	Inlet Efficiency (Note 2)	Gutter Depth	Gutter Spread	Ponding Depth
		(cfs)	(cfs)	(cfs)		(cfs)	(cfs)	(cfs)	(cfs)	(%)	(ft)	(ft)	(ft)
C.I. 5-3	GRADE	2.30	0.31	2.62	1.00	1.73	1.73	1.73	0.89	65.92%	0.15	7.38	...
C.I. 5-4	GRADE	2.30	0.30	2.60	1.00	1.72	1.72	1.72	0.88	66.09%	0.15	7.36	...
C.I. 6-1	GRADE	2.37	0.00	2.37	1.00	2.05	2.05	2.05	0.31	86.71%	0.18	9.21	...
C.I. 6-2	GRADE	2.30	0.00	2.30	1.00	2.01	2.01	2.01	0.30	87.07%	0.18	9.12	...
C.I. 7-4(L)	SAG	1.32	1.21	2.52	0.80	19.40	15.52	2.52	0.00	100.00%	0.18	9.12	...
C.I. 7-4(R)	SAG	3.95	0.00	3.95	0.80	19.40	15.52	3.95	0.00	100.00%	0.17	8.61	...
C.I. 7-4(B)	SAG	1.25	0.00	1.25	0.80	19.40	15.52	1.25	0.00	100.00%	...	...	...
C.I. 7-4	SAG	6.51	1.21	7.72	0.80	19.40	15.52	7.72	0.00	100.00%	...	...	...
C.I. 7-5(L)	SAG	3.95	1.18	5.13	0.80	19.40	15.52	5.13	0.00	100.00%	0.19	9.49	...
C.I. 7-5(R)	SAG	2.83	0.00	2.83	0.80	19.40	15.52	2.83	0.00	100.00%	0.19	9.52	...
C.I. 7-5(B)	SAG	3.29	0.00	3.29	0.80	19.40	15.52	3.29	0.00	100.00%	...	...	...
C.I. 7-5	SAG	10.07	1.18	11.25	0.80	19.40	15.52	11.25	0.00	100.00%	...	...	...
C.I. 4-3(L)	SAG	4.01	0.00	4.01	0.80	19.40	15.52	4.01	0.00	100.00%	0.18	8.80	...
C.I. 4-3(R)	SAG	0.92	0.00	0.92	0.80	19.40	15.52	0.92	0.00	100.00%	0.12	6.21	...
C.I. 4-3(B)	SAG	1.12	0.00	1.12	0.80	19.40	15.52	1.12	0.00	100.00%	...	...	...
C.I. 4-3	SAG	6.05	0.00	6.05	0.80	19.40	15.52	6.05	0.00	100.00%	...	...	...
C.I. 3-3(L)	SAG	3.49	0.00	3.49	0.80	19.40	15.52	3.49	0.00	100.00%	0.21	10.61	...
C.I. 3-3(R)	SAG	3.16	0.00	3.16	0.80	19.40	15.52	3.16	0.00	100.00%	0.19	9.60	...
C.I. 3-3(B)	SAG	1.18	0.00	1.18	0.80	19.40	15.52	1.18	0.00	100.00%	...	...	...
C.I. 3-3	SAG	7.83	0.00	7.83	0.80	19.40	15.52	7.83	0.00	100.00%	...	...	...
C.I. 2-4	GRADE	4.28	0.00	4.28	1.00	2.85	2.85	2.85	1.43	66.66%	0.20	10.19	...
C.I. 2-5	GRADE	2.63	0.00	2.63	1.00	2.04	2.04	2.04	0.59	77.68%	0.17	8.50	...
C.I. 1-3	GRADE	3.29	0.59	3.88	1.00	2.65	2.65	2.65	1.23	68.23%	0.19	9.73	...
C.I. 1-4	GRADE	3.09	1.43	4.52	1.00	2.90	2.90	2.90	1.61	64.28%	0.21	10.31	...

100 Year Return Frequency						
Inlet ID	Drainage Area	C	Tc	i	K	Peak Flow
	(ac)		(min)	(in/hr)		(cfs)
C.I. 5-3	0.35	0.51	5.00	10.32	1.25	2.30
C.I. 5-4	0.35	0.51	5.00	10.32	1.25	2.30
C.I. 6-1	0.36	0.51	5.00	10.32	1.25	2.37
C.I. 6-2	0.35	0.51	5.00	10.32	1.25	2.30
C.I. 7-4(L)	0.20	0.51	5.00	10.32	1.25	1.32
C.I. 7-4(R)	0.60	0.51	5.00	10.32	1.25	3.95
C.I. 7-4(B)	0.19	0.51	5.00	10.32	1.25	1.25
C.I. 7-4	0.99	0.51	5.00	10.32	1.25	6.51
C.I. 7-5(L)	0.60	0.51	5.00	10.32	1.25	3.95
C.I. 7-5(R)	0.43	0.51	5.00	10.32	1.25	2.83
C.I. 7-5(B)	0.50	0.51	5.00	10.32	1.25	3.29
C.I. 7-5	1.53	0.51	5.00	10.32	1.25	10.07
C.I. 4-3(L)	0.61	0.51	5.00	10.32	1.25	4.01
C.I. 4-3(R)	0.14	0.51	5.00	10.32	1.25	0.92
C.I. 4-3(B)	0.17	0.51	5.00	10.32	1.25	1.12
C.I. 4-3	0.92	0.51	5.00	10.32	1.25	6.05
C.I. 3-3(L)	0.53	0.51	5.00	10.32	1.25	3.49
C.I. 3-3(R)	0.48	0.51	5.00	10.32	1.25	3.16
C.I. 3-3(B)	0.18	0.51	5.00	10.32	1.25	1.18
C.I. 3-3	1.19	0.51	5.00	10.32	1.25	7.83
C.I. 2-4	0.65	0.51	5.00	10.32	1.25	4.28
C.I. 2-5	0.40	0.51	5.00	10.32	1.25	2.63
C.I. 1-3	0.50	0.51	5.00	10.32	1.25	3.29
C.I. 1-4	0.47	0.51	5.00	10.32	1.25	3.09

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

NOT ASBUILT

drawn by: _____ C.S.M. checked by: _____ S.M.S. designed by: _____ C.S.M. QA/QC by: _____ S.E.S. project no.: _____ C18-1146 date: _____ 2020.07.10		100 YEAR DRAINAGE TABLES STREET & STORM SEWER PLANS		NO. REV. 2		DATE 3/6/2021		REVISIONS DESCRIPTION REVISED PER CONTRACTOR COMMENT		BY	
		WOODSIDE RIDGE SECOND PLAT									
LEE'S SUMMIT, MO		2020								REVISIONS	

MO Certificate of Authority #001592
 1301 BURLINGTON, SUITE 100
 NORTH KANSAS CITY, MO 64116
 TEL 816.361.1177
 www.olson.com

STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER
PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER

drawn by: _____ C.S.M. checked by: _____ S.M.S. designed by: _____ C.S.M. QA/QC by: _____ J.E.S. project no.: _____ C18-1140 date: _____ 2020.07.10	100 YEAR DRAINAGE TABLES STREET & STORM SEWER PLANS		NO. REV.	DATE	REVISIONS DESCRIPTION REVISED PER CONTRACTOR COMMENT	BY
			2	3/16/2021		
WOODSIDE RIDGE SECOND PLAT						
LEE'S SUMMIT, MO		2020	REVISIONS			
SHEET C127						



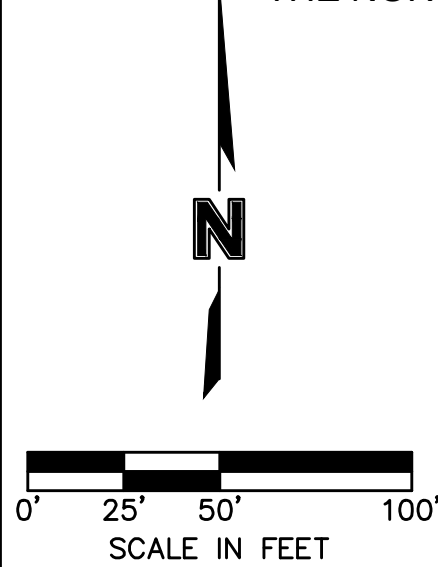
KEY MAP

NOTES:
1. INDIVIDUAL LOT OWNERS SHALL NOT CHANGE OR OBSTRUCT THE DRAINAGE FLOW LINES OR PATHS ON THE LOTS, AS SHOWN ON THE MASTER DRAINAGE PLAN, UNLESS SPECIFIC APPLICATION IS MADE AND APPROVED BY THE CITY ENGINEER.
2. PLAT IS LOCATED IN ZONE X, "AREAS OUTSIDE THE 1-PERCENT ANNUAL CHANCE FLOODPLAINS, AREAS OF 1-PERCENT ANNUAL CHANCE SHEET FLOW FLOODING WHERE THE AVERAGE DEPTHS ARE LESS THAN 1 FOOT, AREAS OF 1-PERCENT ANNUAL CHANCE STREAM FLOODING WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1 SQUARE MILE, OR AREAS PROTECTED FROM THE 1-PERCENT ANNUAL CHANCE FLOOD BY LEVEES. NO BASE FLOOD ELEVATIONS OR DEPTHS ARE SHOWN WITHIN THIS ZONE"
3. BUFFER ZONE FOR NATURAL STREAMS IS LOCATED WITHIN PLAT.
4. MBOE ELEVATIONS HAVE BEEN PROVIDED AT EACH LOT CORNER. INTERPOLATION WILL BE ALLOWED BETWEEN CORNER MBOES SHOWN ON THE MASTER DRAINAGE PLAN, DEPENDING ON THE LOCATION OF THE LOWEST OPENING ON THE PROPOSED STRUCTURE.
5. NO BUILDING PERMITS WILL BE ISSUED UNTIL AN AS-GRADED MASTER DRAINAGE PLAN HAS BEEN SUBMITTED TO THE CITY AND APPROVED BY THE CITY.
RMBOE - REAR MINIMUM BUILDING OPENING ELEVATION
FMBOE - FRONT MINIMUM BUILDING OPENING ELEVATION
LOT TYPES:
S - STANDARD
D - DAYLIGHT
W - WALKOUT
BASIN C1 DETENTION (TRACT I):
100-YEAR W.S.E. (NON-CLOGGED): 928.54
CLOGGED CONDITION (ALL FLOW THROUGH EMERGENCY SPILLWAY): 929.60
BASIN C1 DETENTION (TRACT J):
100-YEAR W.S.E. (NON-CLOGGED): 935.67
CLOGGED CONDITION (ALL FLOW THROUGH EMERGENCY SPILLWAY): 936.70

LEGEND	
	FINISHED INDEX CONTOURS
	FINISHED INTERMEDIATE CONTOURS

ASBUILT
03-24-2022

*ASBUILT NOTE: ADDITIONAL FILL WAS USED ON SITE TO RAISE PORTIONS OF THE REAR LOTS IN THE NORTHWEST

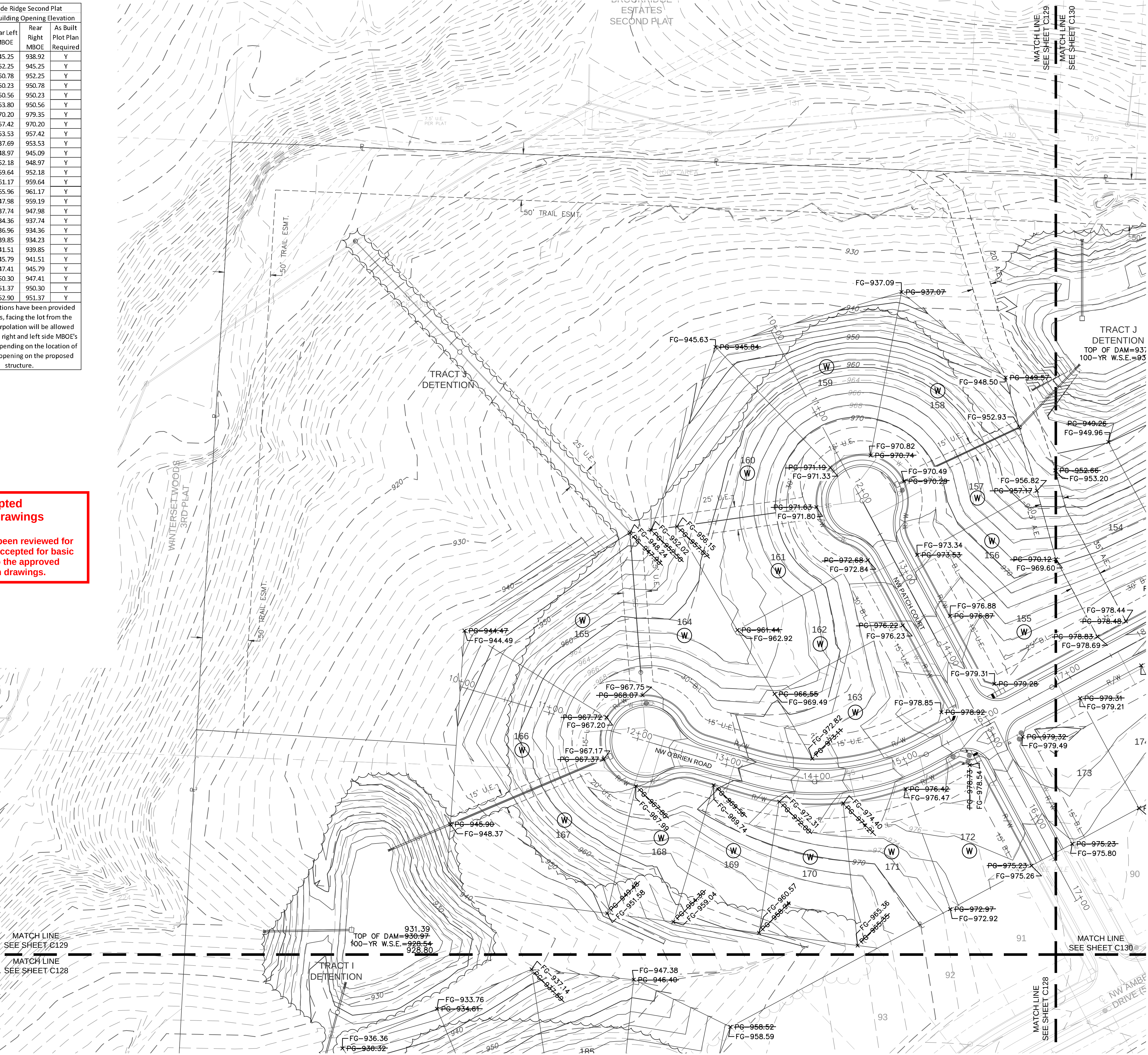


Woodside Ridge Second Plat Minimum Building Opening Elevation			
Lot	Rear Left MBOE	Rear Right MBOE	As Built Plot Plan Required
149	945.25	938.92	Y
150	952.25	945.25	Y
151	950.78	952.25	Y
152	950.23	950.78	Y
153	950.56	950.23	Y
154	953.80	950.56	Y
155	970.20	979.35	Y
156	957.42	970.20	Y
157	953.53	957.42	Y
158	937.69	953.53	Y
166	948.97	945.09	Y
167	952.18	948.97	Y
168	959.64	952.18	Y
169	961.17	959.64	Y
170	965.96	961.17	Y
184	947.98	959.19	Y
185	937.74	947.98	Y
186	934.36	937.74	Y
187	936.96	934.36	Y
192	939.85	934.23	Y
193	941.51	939.85	Y
194	945.79	941.51	Y
195	947.41	945.79	Y
196	950.30	947.41	Y
197	951.37	950.30	Y
198	952.90	951.37	Y

MBOE elevations have been provided per lot lines, facing the lot from the street. Interpolation will be allowed between the right and left side MBOE's provided, depending on the location of the lowest opening on the proposed structure.

Accepted
Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



BY

NO. REV.

DATE

REVISIONS DESCRIPTION

1

7/10/2020

MASTER DRAINAGE PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

2020

drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C129

olsson

NOT A SEAL OF ANY STATE OR COUNTY
300 E. BURLINGAME STREET, SUITE 100
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TEL. 816.861.1177
WWW.OLSSON.COM

STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER
PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER



KEY MAP

Woodside Ridge Second Plat				
Minimum Building Opening Elevation				
Lot	Rear Left MBOE	Rear Right MBOE	As Built Plot Plan	Required
149	945.25	938.92	Y	
150	952.25	945.25	Y	
151	950.78	952.25	Y	
152	950.23	950.78	Y	
153	950.56	950.23	Y	
154	953.80	950.56	Y	
155	970.20	979.35	Y	
156	957.42	970.20	Y	
157	953.53	957.42	Y	
158	937.69	953.53	Y	
166	948.97	945.09	Y	
167	952.18	948.97	Y	
168	959.64	952.18	Y	
169	961.17	959.64	Y	
170	965.96	961.17	Y	
184	947.98	959.19	Y	
185	937.74	947.98	Y	
186	934.36	937.74	Y	
187	936.96	934.36	Y	
192	939.85	934.23	Y	
193	941.51	939.85	Y	
194	945.79	941.51	Y	
195	947.41	945.79	Y	
196	950.30	947.41	Y	
197	951.37	950.30	Y	
198	952.90	951.37	Y	

MBOE elevations have been provided per lot lines, facing the lot from the street. Interpolation will be allowed between the right and left side MBOE's provided, depending on the location of the lowest opening on the proposed structure.

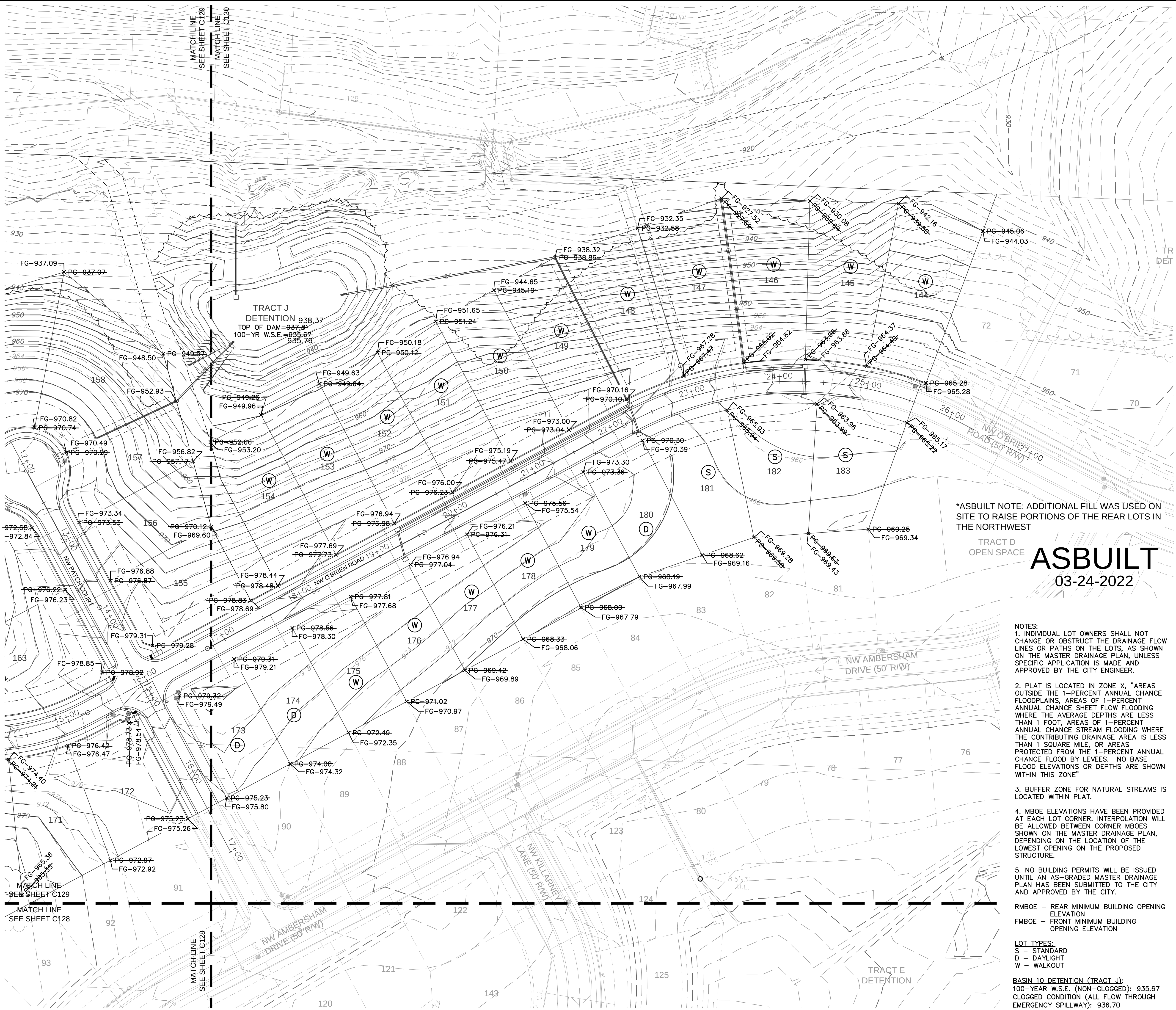
Accepted
Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

LEGEND	
100	FINISHED INDEX CONTOURS
100	FINISHED INTERMEDIATE CONTOURS



0 25' 50' 100'
SCALE IN FEET



*ASBUILT NOTE: ADDITIONAL FILL WAS USED ON SITE TO RAISE PORTIONS OF THE REAR LOTS IN THE NORTHWEST

ASBUILT
03-24-2022

- NOTES:
- INDIVIDUAL LOT OWNERS SHALL NOT CHANGE OR OBSTRUCT THE DRAINAGE FLOW LINES OR PATHS ON THE LOTS, AS SHOWN ON THE MASTER DRAINAGE PLAN, UNLESS SPECIFIC APPLICATION IS MADE AND APPROVED BY THE CITY ENGINEER.
 - PLAT IS LOCATED IN ZONE X, "AREAS OUTSIDE THE 1-PERCENT ANNUAL CHANCE FLOODPLAINS, AREAS OF 1-PERCENT ANNUAL CHANCE SHEET FLOW FLOODING WHERE THE AVERAGE DEPTHS ARE LESS THAN 1 FOOT, AREAS OF 1-PERCENT ANNUAL CHANCE STREAM FLOODING WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1 SQUARE MILE, OR AREAS PROTECTED FROM THE 1-PERCENT ANNUAL CHANCE FLOOD BY LEVEES. NO BASE FLOOD ELEVATIONS OR DEPTHS ARE SHOWN WITHIN THIS ZONE"
 - BUFFER ZONE FOR NATURAL STREAMS IS LOCATED WITHIN PLAT.
 - MBOE ELEVATIONS HAVE BEEN PROVIDED AT EACH LOT CORNER. INTERPOLATION WILL BE ALLOWED BETWEEN CORNER MBOE'S SHOWN ON THE MASTER DRAINAGE PLAN, DEPENDING ON THE LOCATION OF THE LOWEST OPENING ON THE PROPOSED STRUCTURE.
 - NO BUILDING PERMITS WILL BE ISSUED UNTIL AN AS-GRADED MASTER DRAINAGE PLAN HAS BEEN SUBMITTED TO THE CITY AND APPROVED BY THE CITY.
- RMBOE = REAR MINIMUM BUILDING OPENING ELEVATION
FMBOE = FRONT MINIMUM BUILDING OPENING ELEVATION
- LOT TYPES:
S - STANDARD
D - DAYLIGHT
W - WALKOUT
- BASIN 10 DETENTION (TRACT J);
100-YEAR W.S.E. (NON-CLOGGED): 935.67
CLOGGED CONDITION (ALL FLOW THROUGH EMERGENCY SPILLWAY): 936.70

BY

REVISIONS DESCRIPTION

NO.	REV.	DATE	REVISION PER CITY COMMENTS
1		7/10/2020	

MASTER DRAINAGE PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

drawn by: _____ C.S.M.
checked by: _____ S.M.S.
designed by: _____ C.S.M.
QA/QC by: _____ J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C130

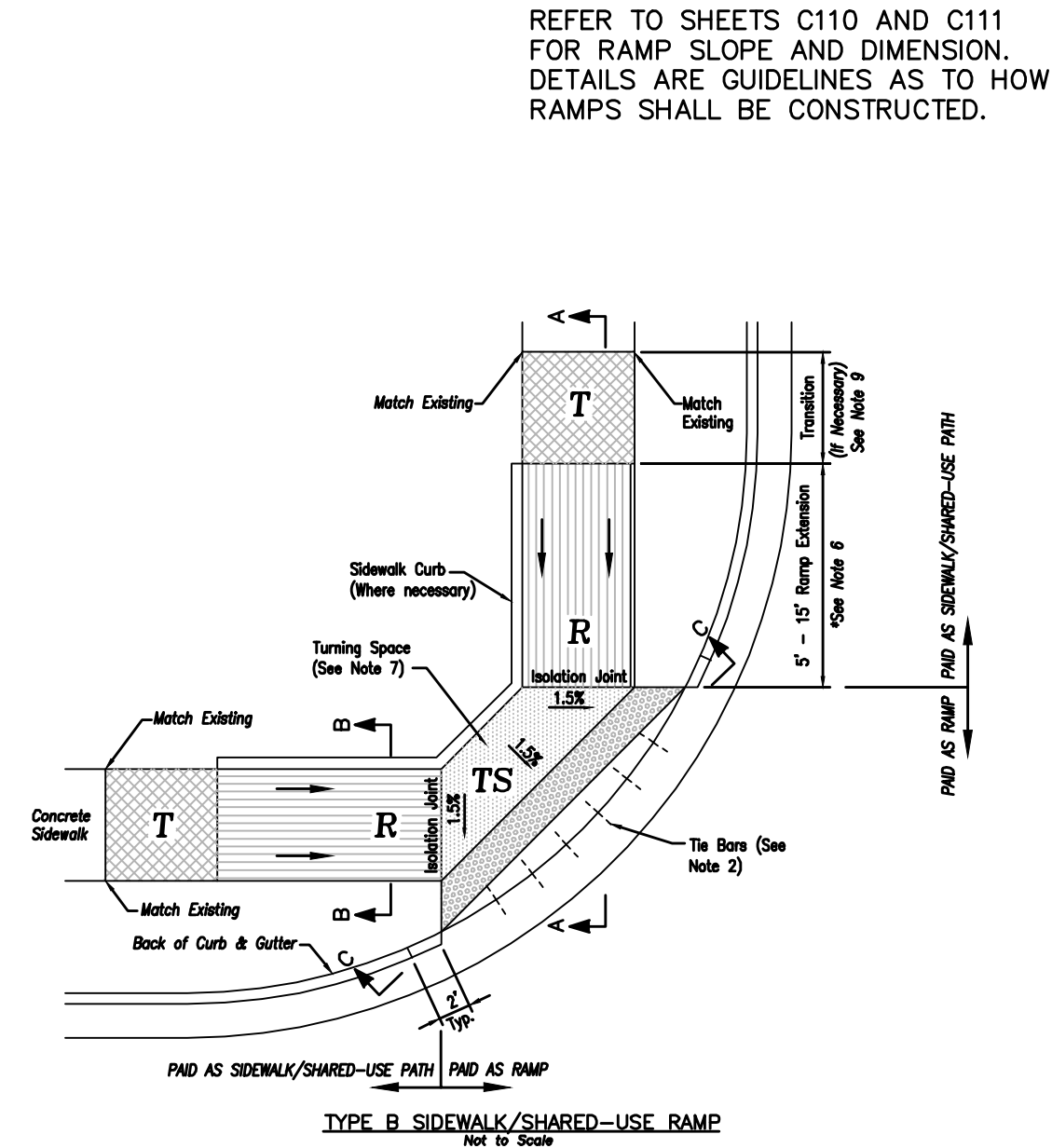
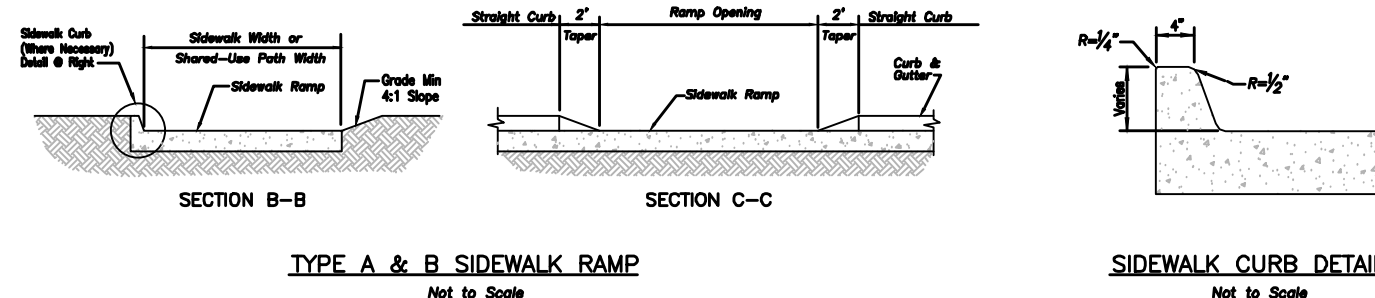
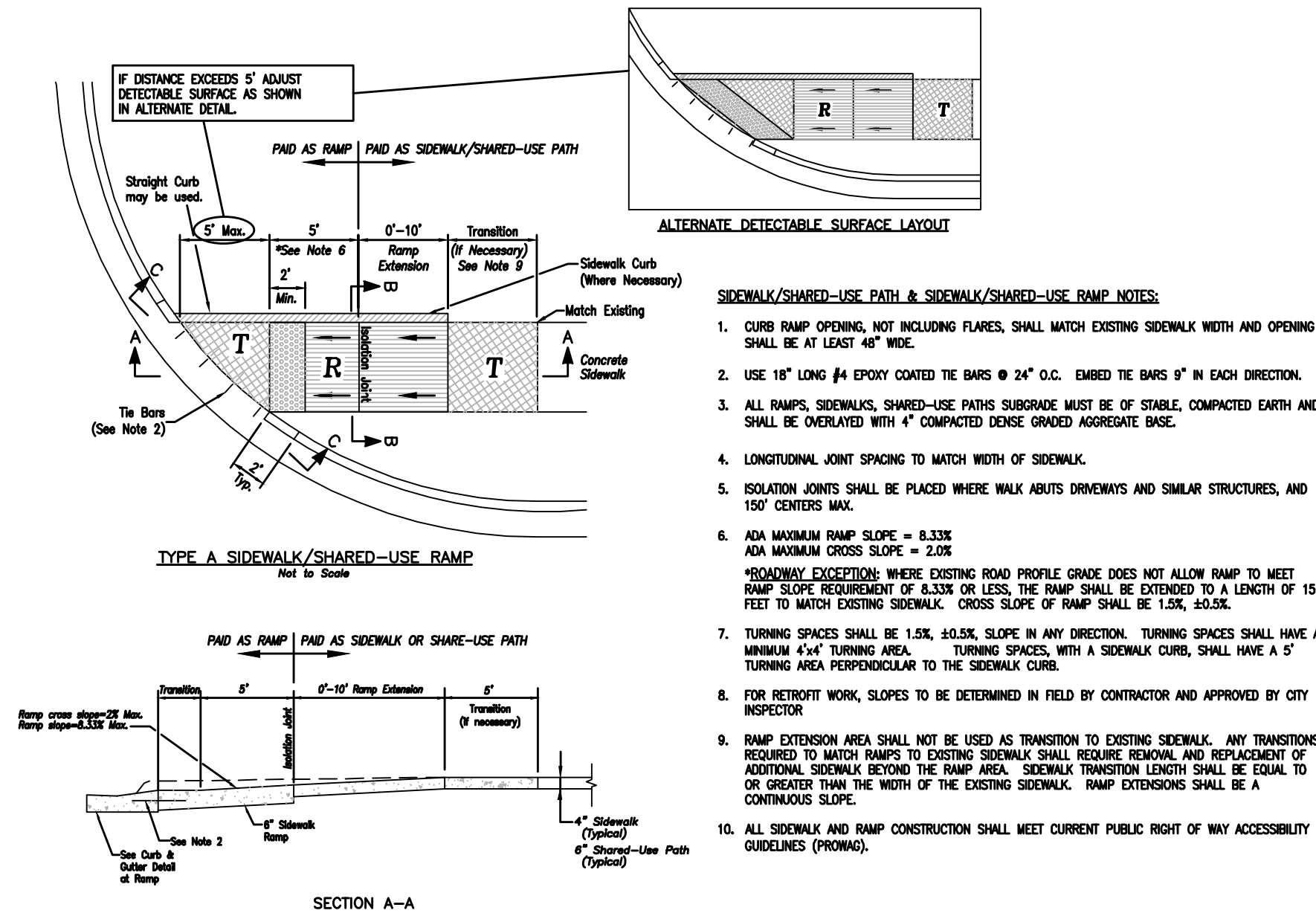
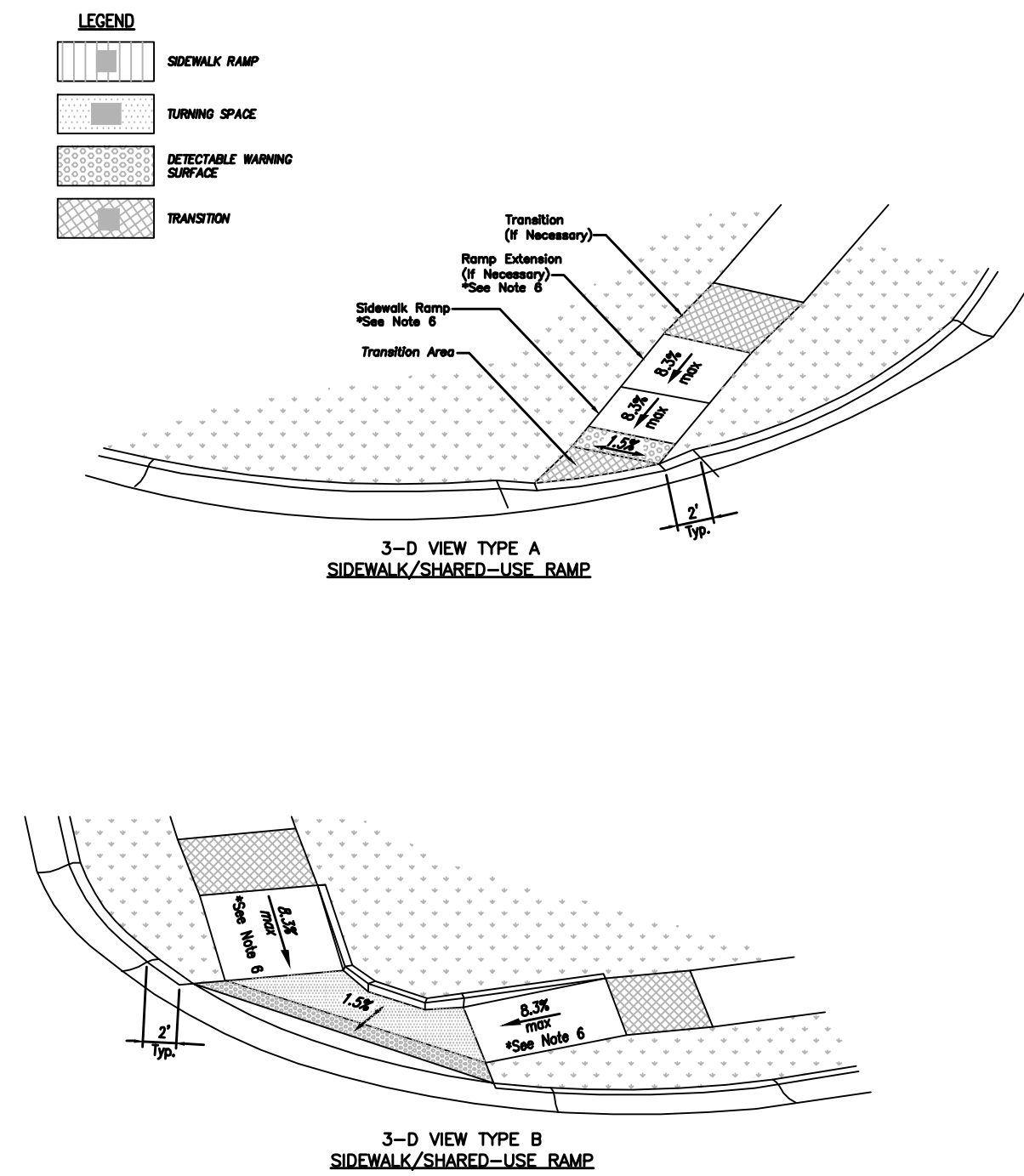
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DATE: Apr 12, 2023 8:43am
USER: ssaylor

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
4/12/2023
PROFESSIONAL ENGINEER

www.olsson.com
TEL 816.861.1177

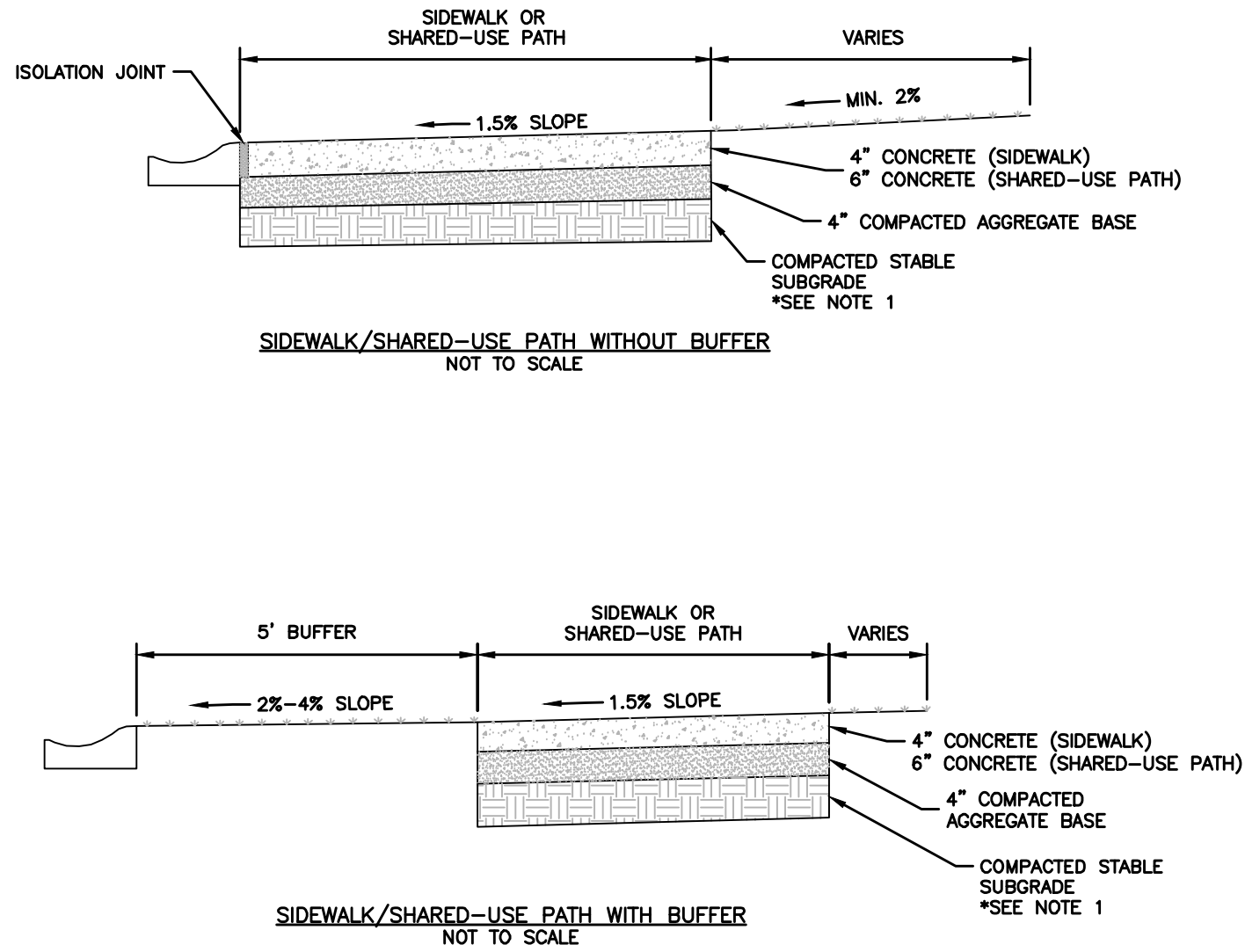
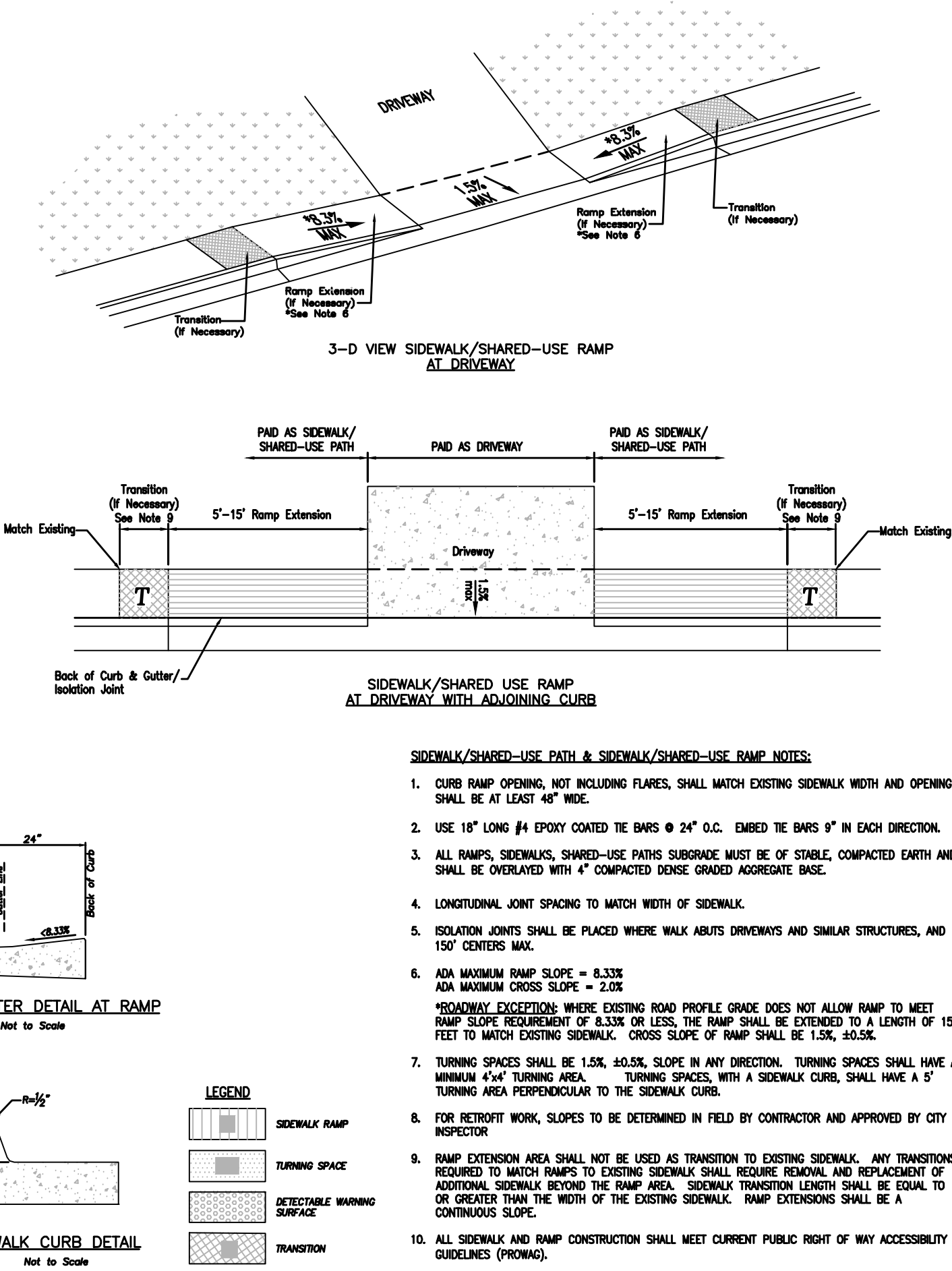
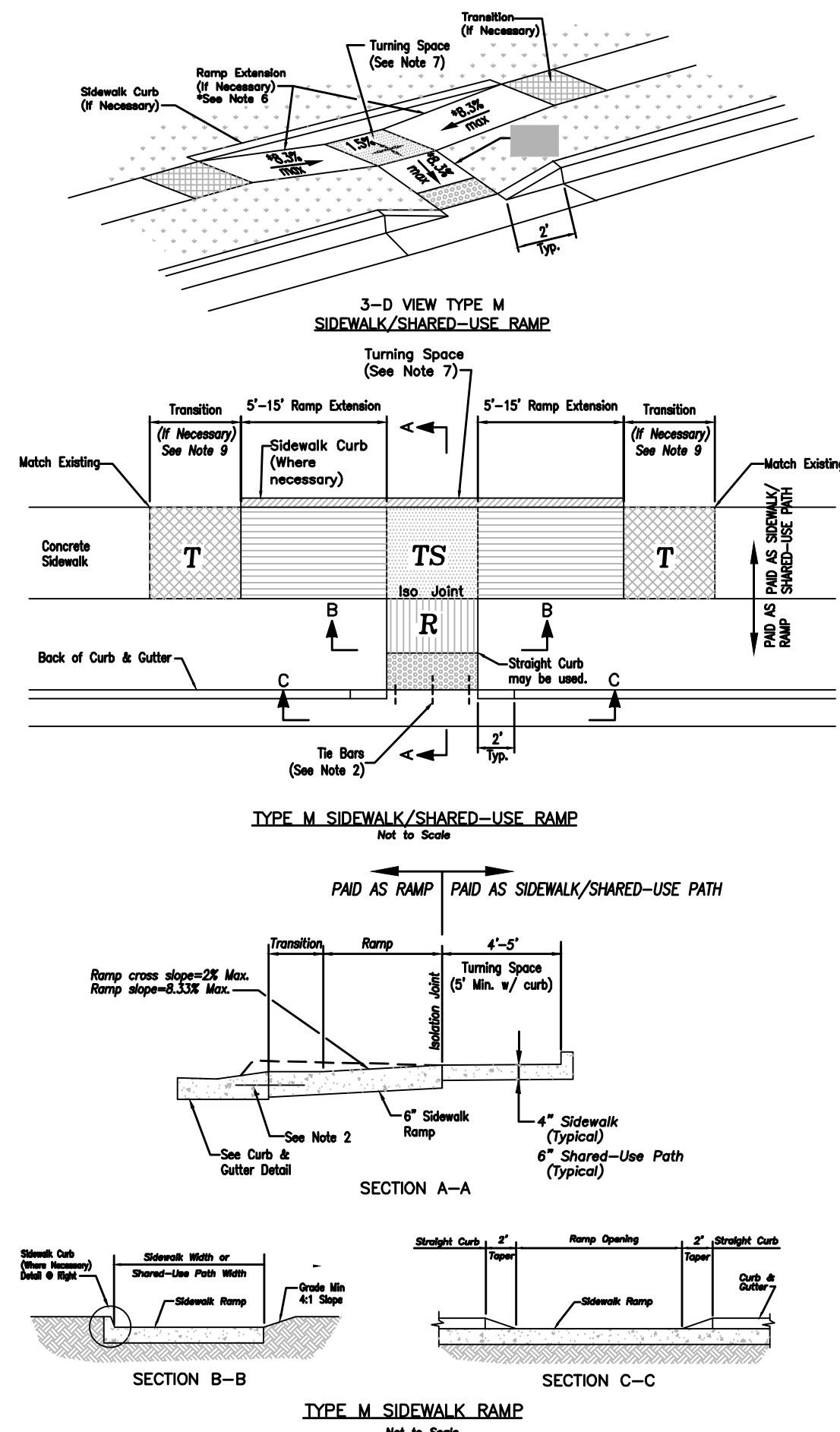
01 N.T.S.
ADA RAMP RETROFIT DETAIL (A)



REFER TO SHEETS C110 AND C111 FOR RAMP SLOPE AND DIMENSION. DETAILS ARE GUIDELINES AS TO HOW RAMPS SHALL BE CONSTRUCTED.

NOT ASBUILT

Accepted
Record Drawings
These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



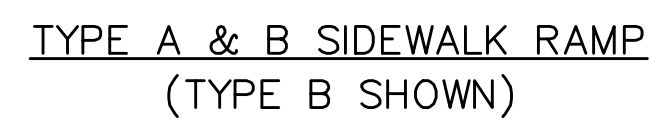
- GENERAL NOTES:
1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" GRADED AGGREGATE BASE.
 2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
 3. KCMME 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS AND SHARED-USE PATHS OR AS APPROVED BY THE CITY INSPECTOR.
 4. ALL SIDEWALKS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
 5. 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.
 6. SHARED-USE PATH WIDTH SHALL BE 10 FT. WIDE.
 7. SIDEWALK FINISHING (NO PICTURE FRAMING) AS DIRECTED BY CITY INSPECTOR.
 8. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

02 N.T.S.
ADA RAMP RETROFIT DETAIL (B)

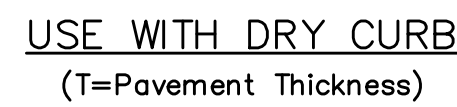
03 N.T.S.
SIDEWALK/SHARED-USE PATH DETAIL



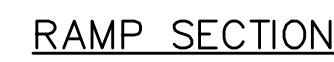
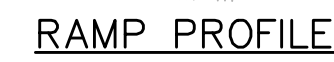
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02



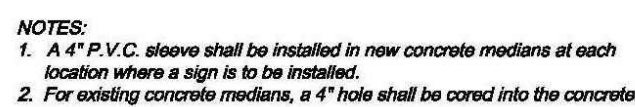
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04

NOT ASBUILT

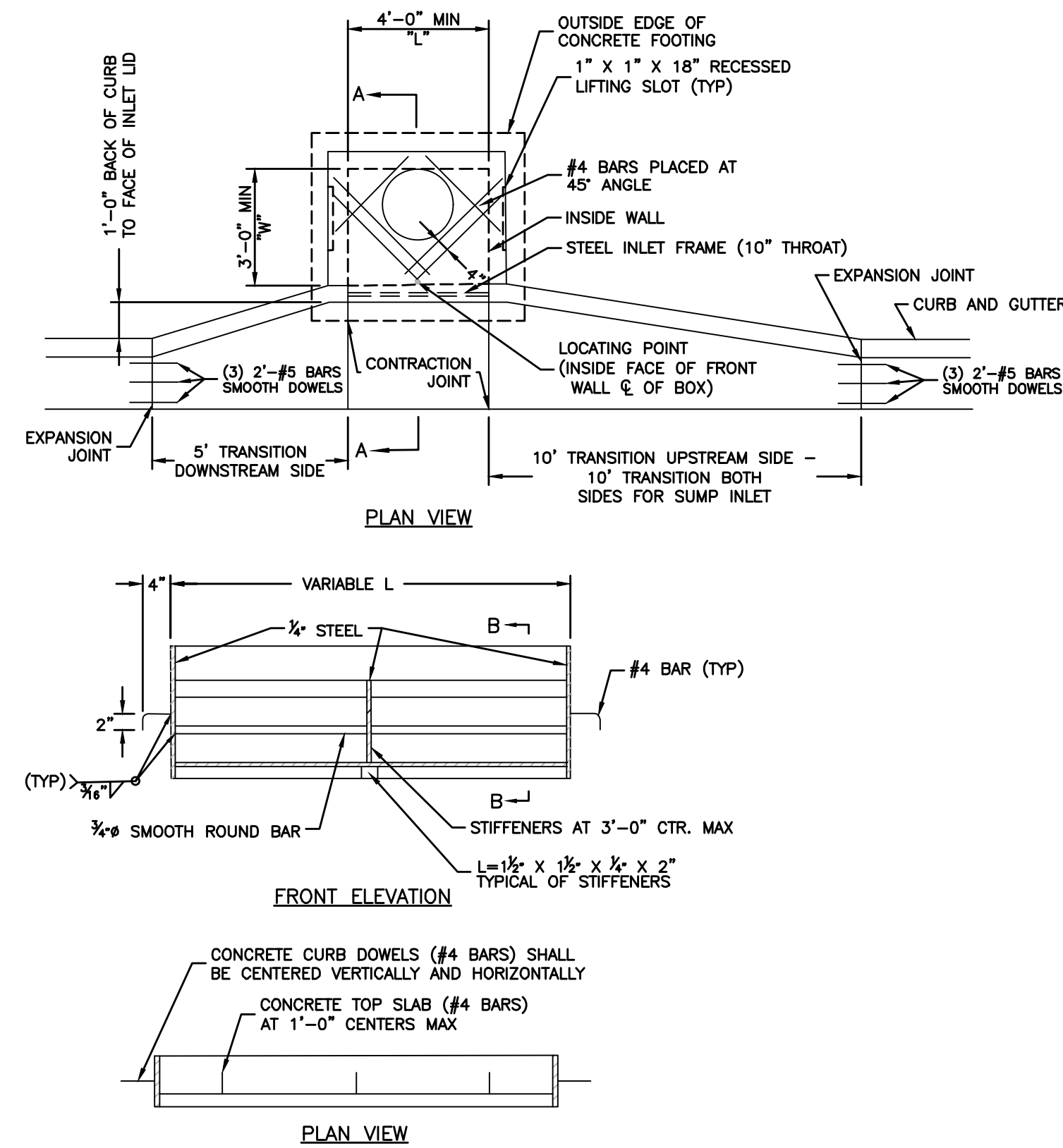
SHEET
C132



**Accepted
Record Drawings**

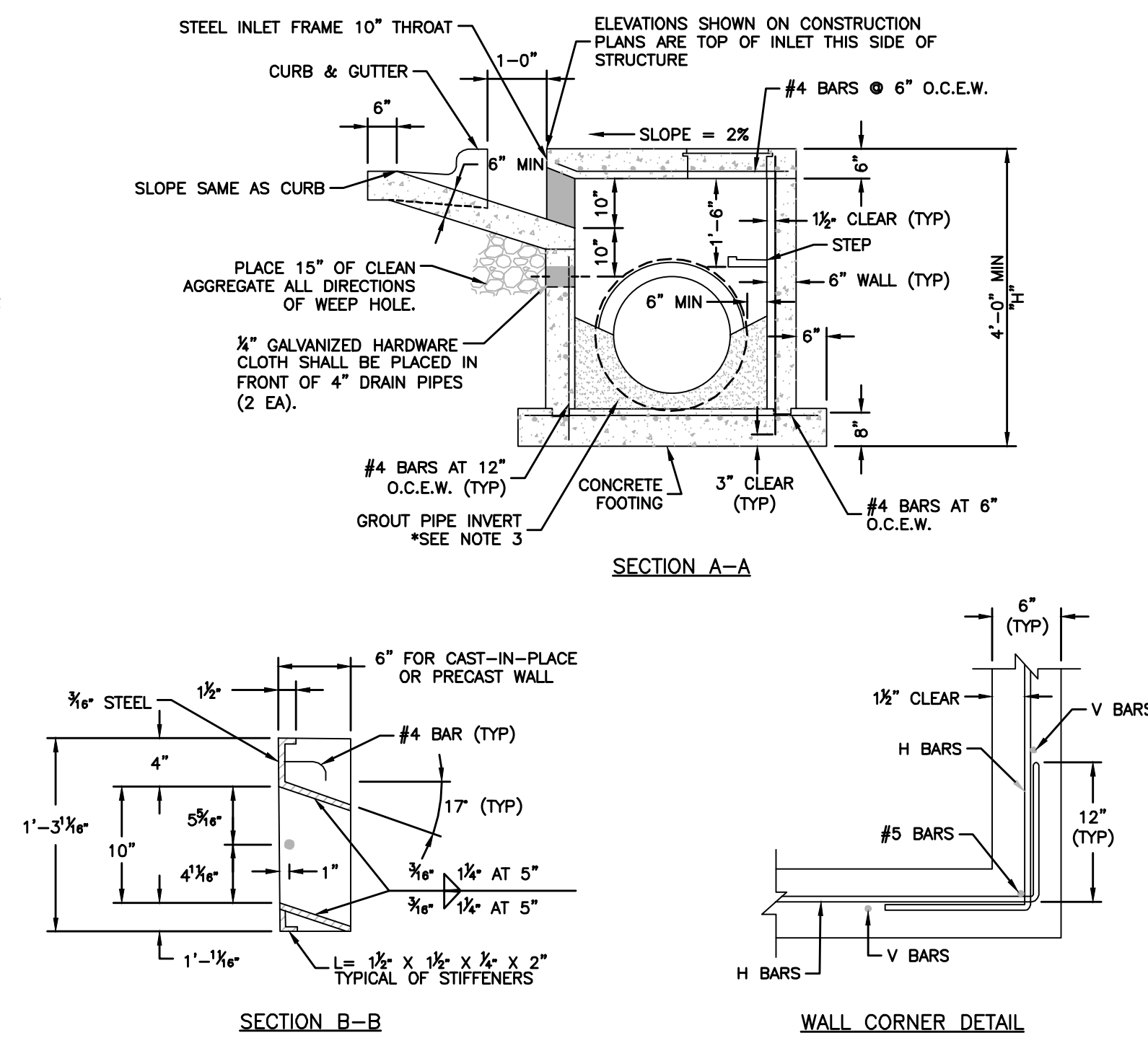
These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

NOT ASBUILT



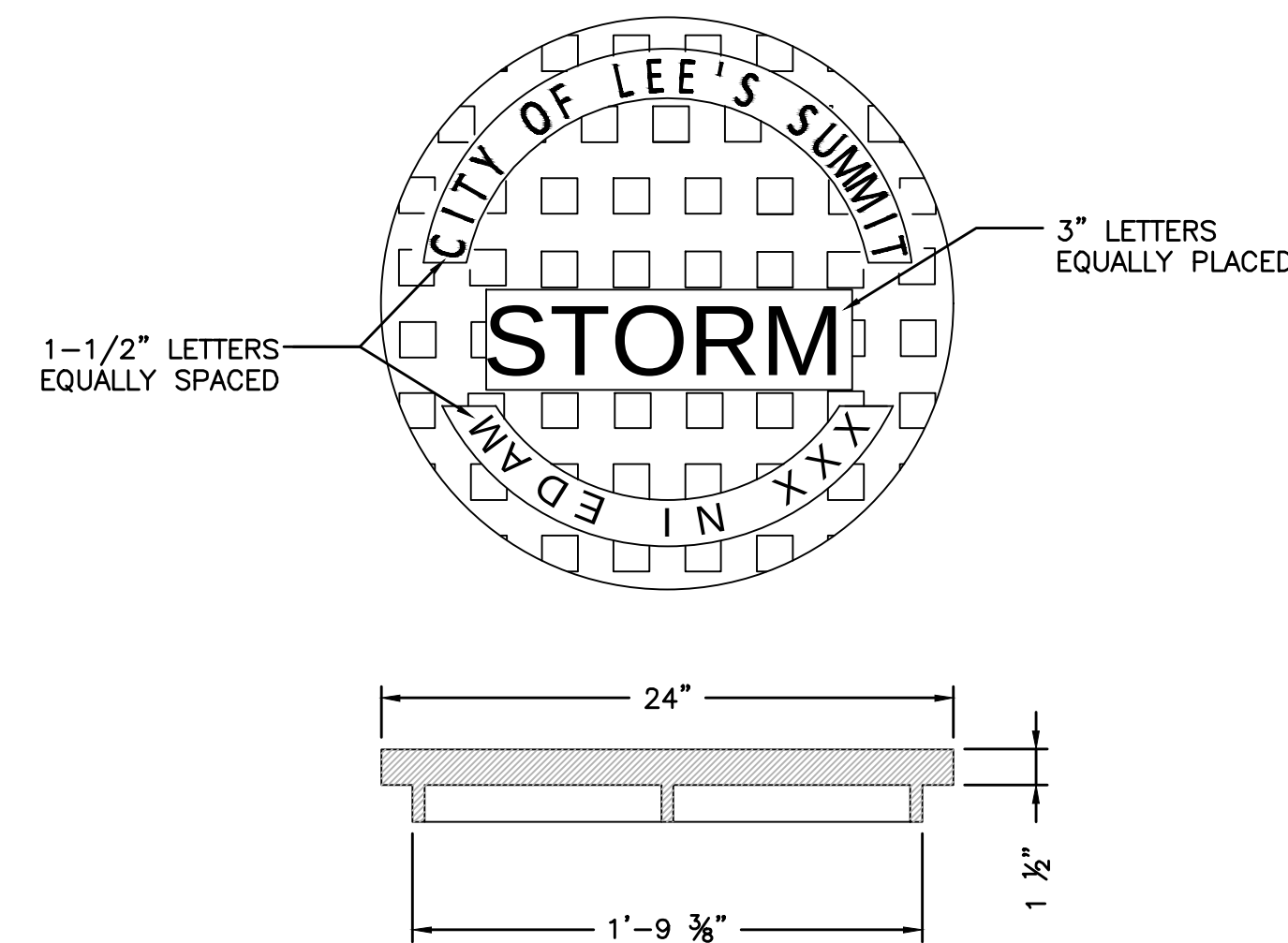
STEEL FRAME NOTES:

1. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH APPROPRIATE AWS SPECIFICATIONS AND PROCEDURES.
2. ALL WELDS ON EXPOSED SURFACES SHALL BE DRESSED SO AS TO PROVIDE A PLEASING FINISHED APPEARANCE.
3. THE ENTIRE FRAME SHALL BE PAINTED A SINGLE COAT OF CHEM-PRIME #37H-78 PRIMER (GRAY) OR EQUAL.



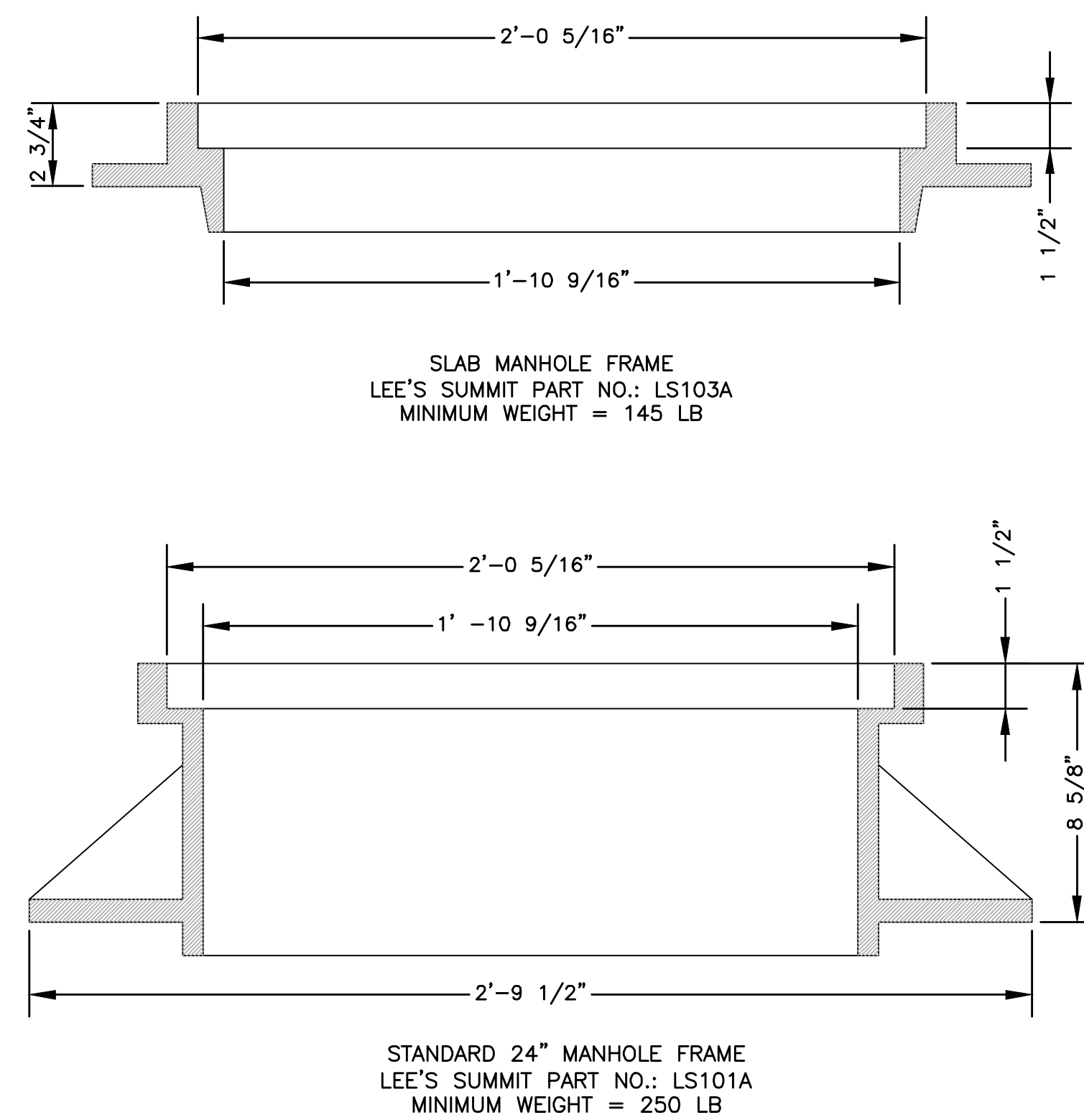
GENERAL NOTES:

1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION.
2. THE SECOND DIMENSION IS THE "W" DIMENSION.
3. ELEVATIONS LISTED ON THE PROJECT PLANS ARE LISTED AT THE INSIDE FACE OF THE WALL.
4. FLOOR OF INLET GROUDED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
5. LOCATE MH RING AND COVER ON BELL WALL IF POSSIBLE.
6. STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY ON BELL WALL IF POSSIBLE.
7. PRECAST LIFTS SHALL BE FINISHED WITH 3/8" CHAMFERED EDGES.
8. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND GUMP INLETS SHALL BE LEVEL.
9. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE JOINT AND REMOVABLE FOR FUTURE MAINTENANCE.
10. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON-SHRINKABLE GROUT
11. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.



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.



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

**Accepted
Record Drawings**

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NOT ASBUILT