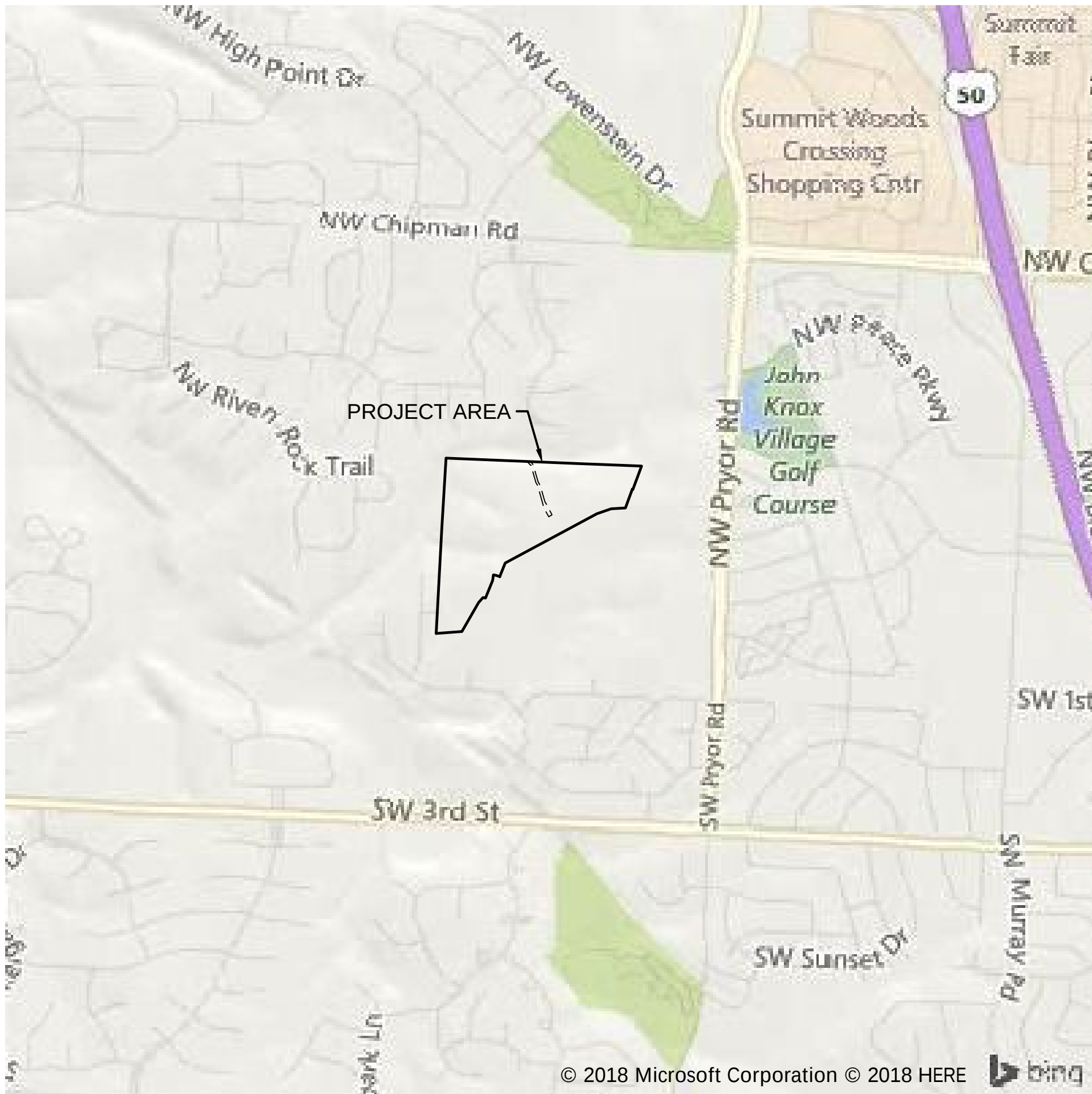


SECTION 2, TOWNSHIP 47 N, RANGE 32 W
IN LEE'S SUMMIT, JACKSON COUNTY, MO

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 26,632.21 feet to the Southwest corner of said Southeast Quarter; thence North 87°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.

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

 _____ JULIE E SELLERS, P.E. CIVIL ENGINEER MO# 2017000367	<u>3/24/22</u> _____ DATE
---	---------------------------------

STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER
PE-2017000367
3/24/22
PROFESSIONAL ENGINEER

[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

olsson

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

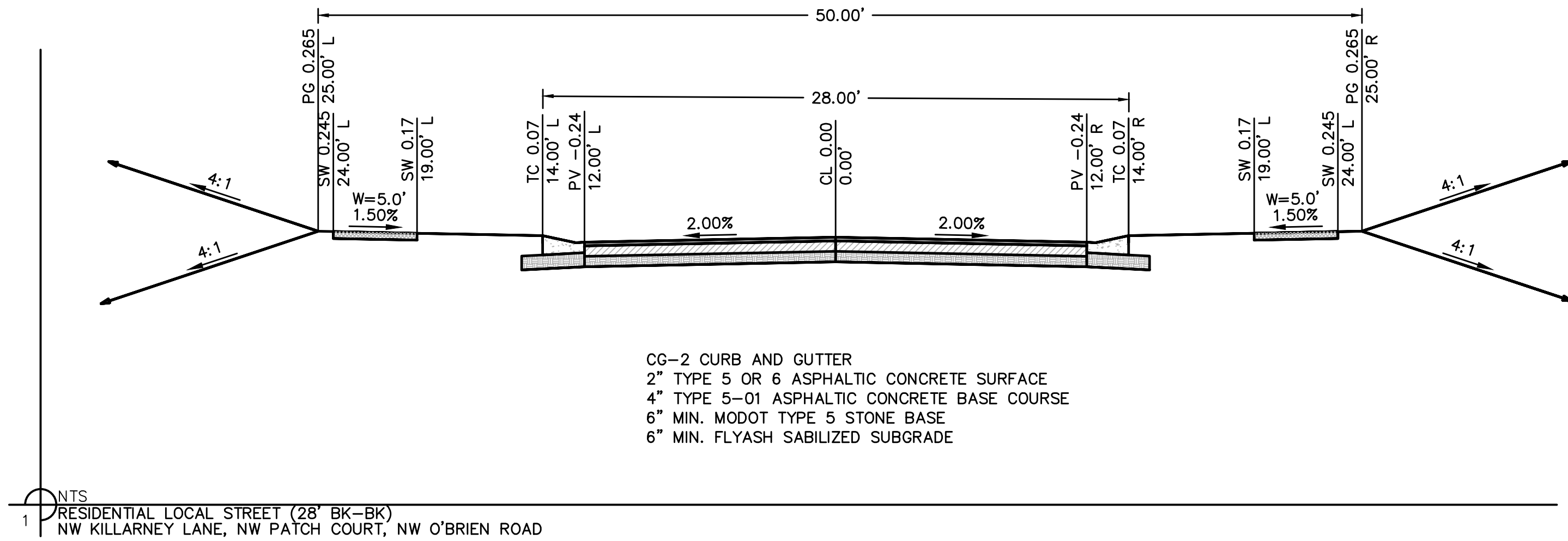
TEL 816.361.1177 www.olsson.com

USER: ssaylor

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

500\018-
10:45am

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



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DATE: Mar 24, 2022 10:45am

ESTIMATE OF QUANTITIES				
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" HDPE	L.F.	1310.46	1273.78
22	18" HDPE	L.F.	562.72	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
-FFEE-	FUTURE POWER/ELECTRIC LINE, UNDERGROUND
-SS-	EXISTING SANITARY SEWER
-SS-	PROPOSED SANITARY SEWER
-FSS-	FUTURE SANITARY SEWER
-SL-	EXISTING STEAM LINE
-FSL-	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

SUMMARY OF QUANTITIES AS INDICATED ABOVE AND ANY QUANTITIES AS SHOWN WITHIN THE PLANS HAVE BEEN PROVIDED FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR USE IN PREPARATION OF CONTRACT DOCUMENTS. QUANTITIES INTENDED FOR, BUT NOT LIMITED TO, THE PREPARATION OF PROPOSALS AND BID DOCUMENTS SHALL BE INDEPENDENTLY EVALUATED BY THE ESTIMATING PARTY BASED UPON THE CONTENTS OF THESE PLANS.

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.

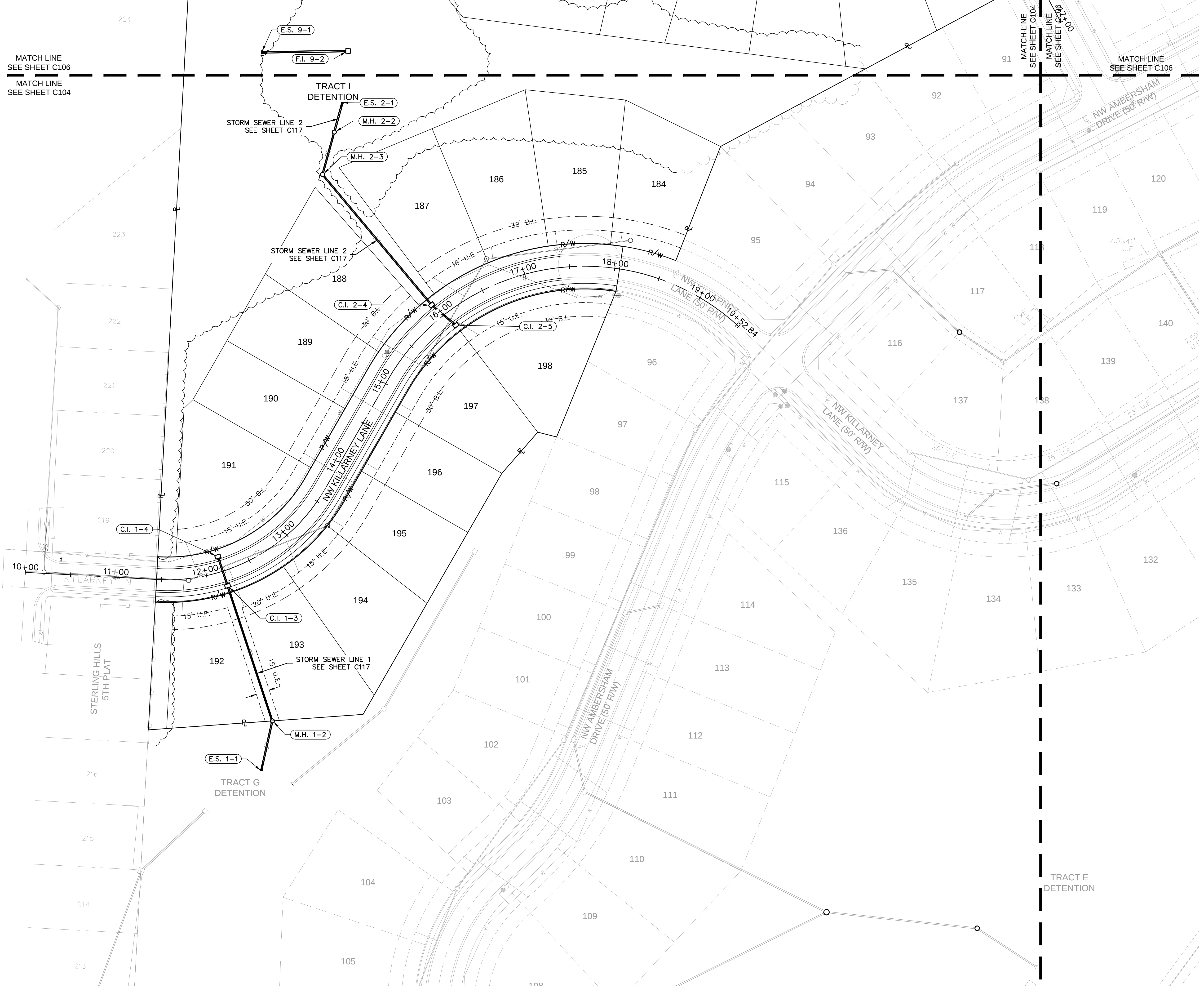
						M/O Certificate of Authority # 001592 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 TEL 816.361.1177 www.olson.com			
olson									
GENERAL NOTES			REVISIONS DESCRIPTION			BY			
STREET & STORM SEWER PLANS WOODSIDE RIDGE SECOND PLAT LEE'S SUMMIT, MO									
								drawn by: _____ C.S.M. checked by: _____ C.S.M. designed by: _____ C.S.M. QA/QC by: _____ J.E.S. project no.: _____ C18-1140 date: _____ 2020.07.10	

SHEET
C102

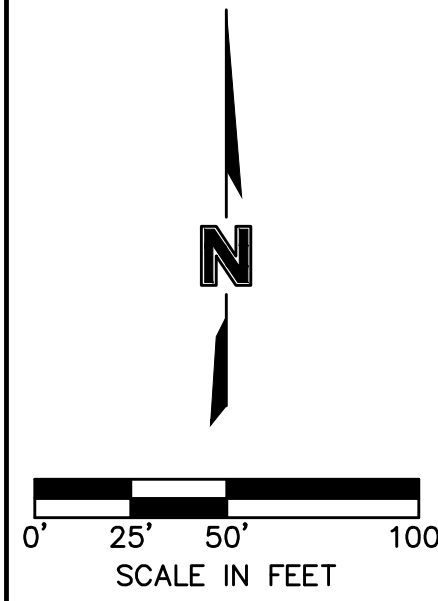


MATCH LINE
SEE SHEET C106

MATCH LINE
SEE SHEET C104



NOT ASBUILT



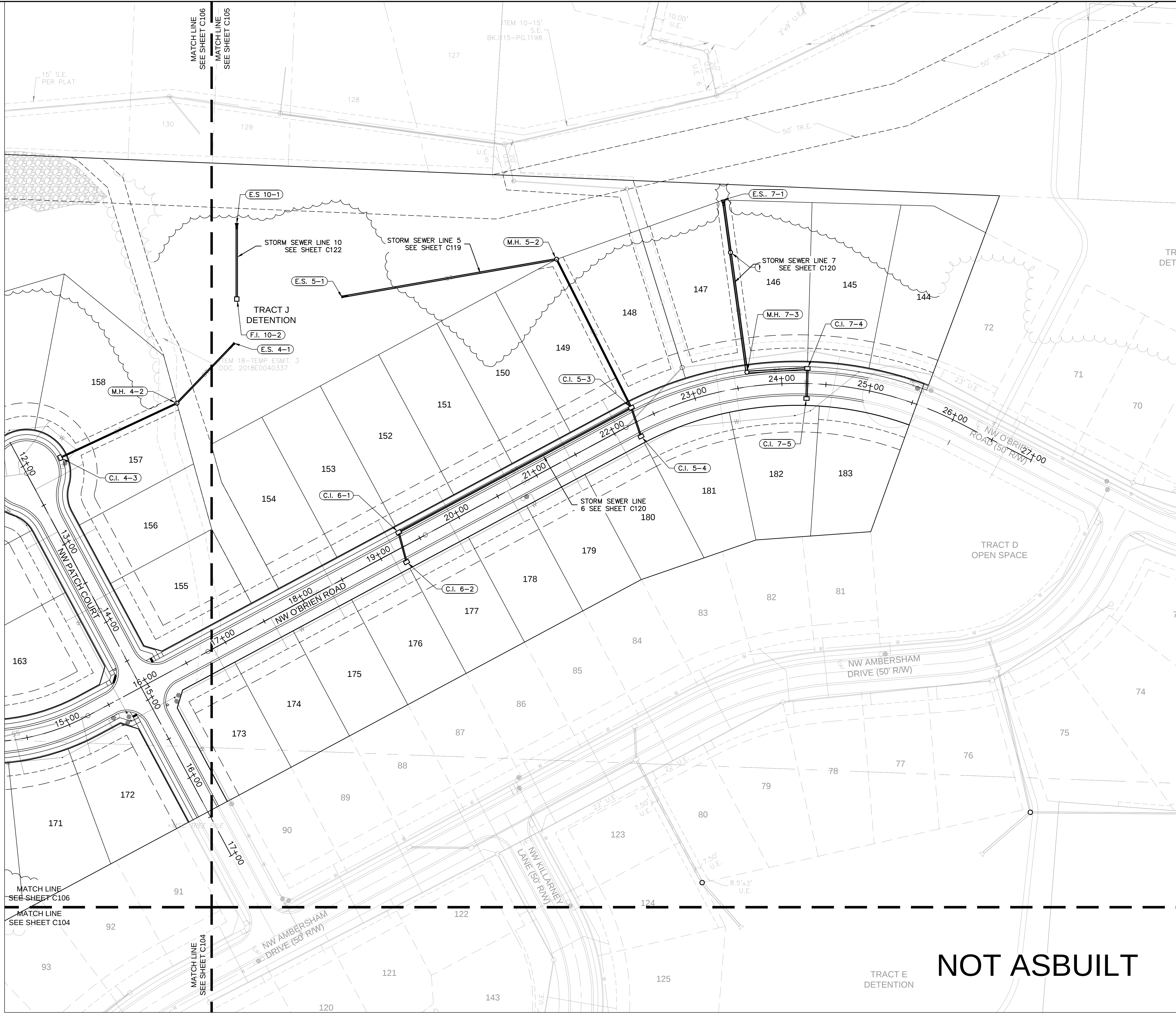
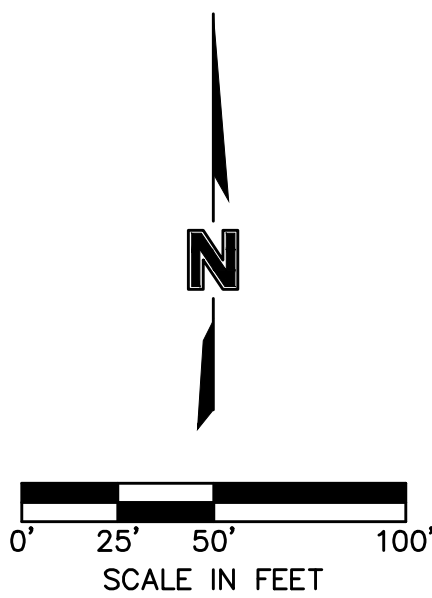
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DATE: Mar 24, 2022 10:46am USER: ssaylor

STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER
PE-2017000367
3/24/22
PROFESSIONAL ENGINEER

MO Certificate of Authority #001592
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL: 816 261 1177
FAX: 816 261 1177

SHEET C104	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		I F F ' S S U M M I T M O 2020	NO. REV. DATE	REVISIONS DESCRIPTION	BY
	GENERAL LAYOUT STREET & STORM SEWER PLANS	WOODSIDE RIDGE SECOND PLAT				

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DATE: Mar 24, 2022 10:46am
USER: ssaylor



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NO Conflicts of Interest at 03/19/22
303 E. BIRCH STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.861.1177
www.olsson.com

STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER PE-2017000367
2024/22

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

GENERAL LAYOUT
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
C106

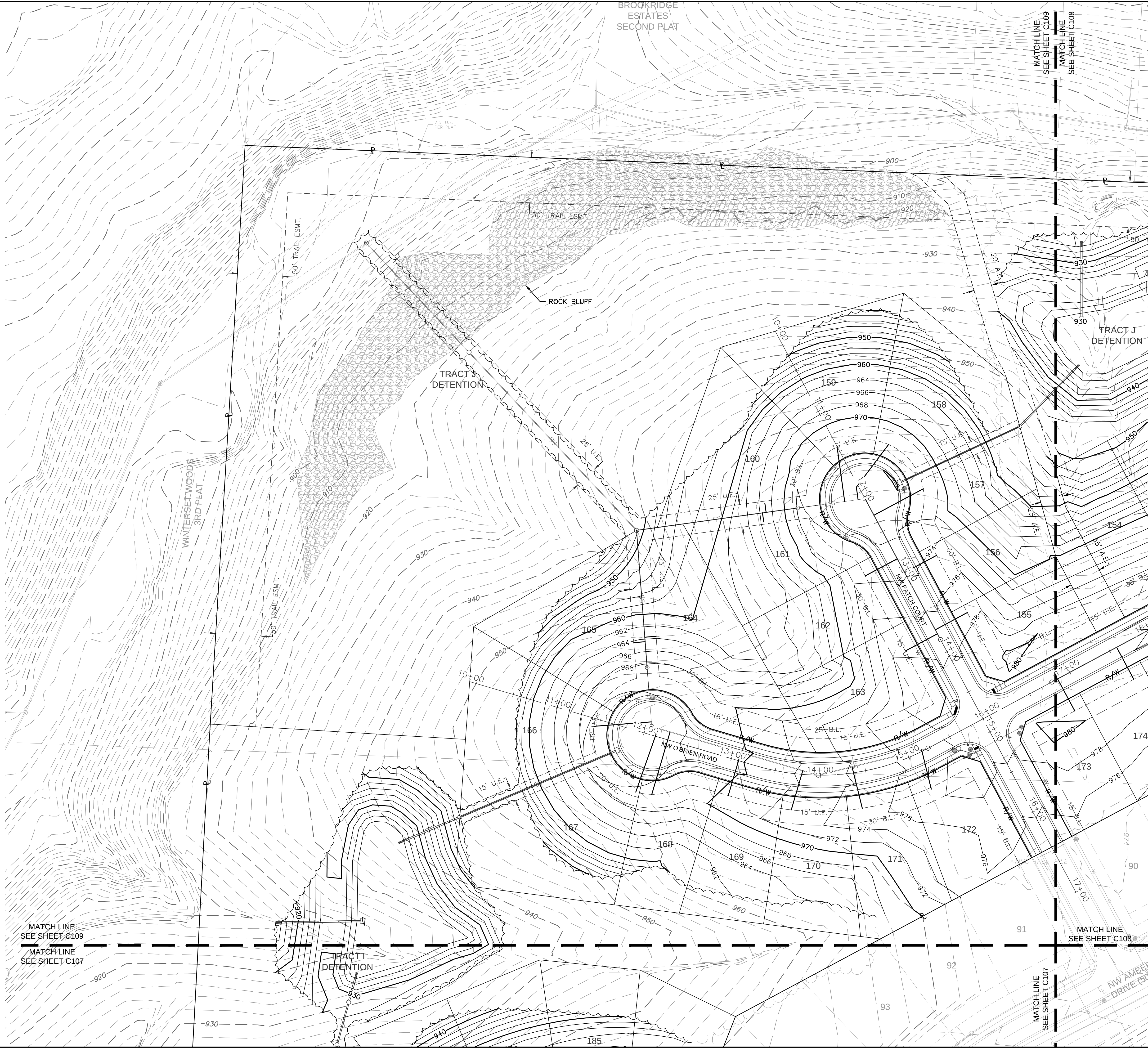
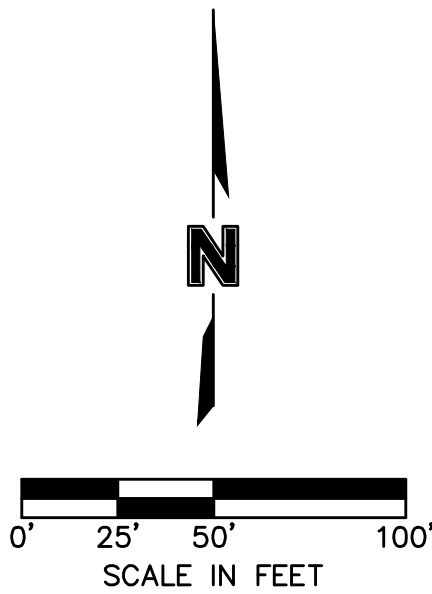
2020
REVISIONS



KEY MAP

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	
167	
168	
169	
170	
171	
172	
173	
174	
175	
176	
177	
178	
179	
180	
181	
182	
183	
184	
185	
186	9'
187	10'
188	
189	
190	
191	
192	
193	10'
194	
195	
196	
197	
198	

NOT ASBUILT



BY

NO. REV.

DATE

REVISIONS DESCRIPTION

STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER
PE-2017000367
3/24/22
PROFESSIONAL LAND SURVEYOR

GRADING PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

2020

REVISIONS

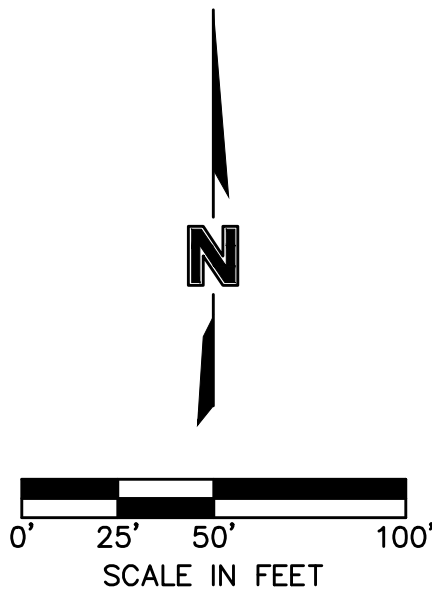
drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C108



KEY MAP

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	
167	
168	
169	
170	
171	
172	
173	
174	
175	
176	
177	
178	
179	
180	
181	
182	
183	
184	
185	
186	9'
187	10'
188	
189	
190	
191	
192	
193	10'
194	
195	
196	
197	
198	



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BY

NO. REV.

DATE

REVISIONS DESCRIPTION

STATE OF MISSOURI

JULIE ELAINE SELLERS

NUMBER PE-2017000367

2024/22

PROFESSIONAL ENGINEER

GRADING 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

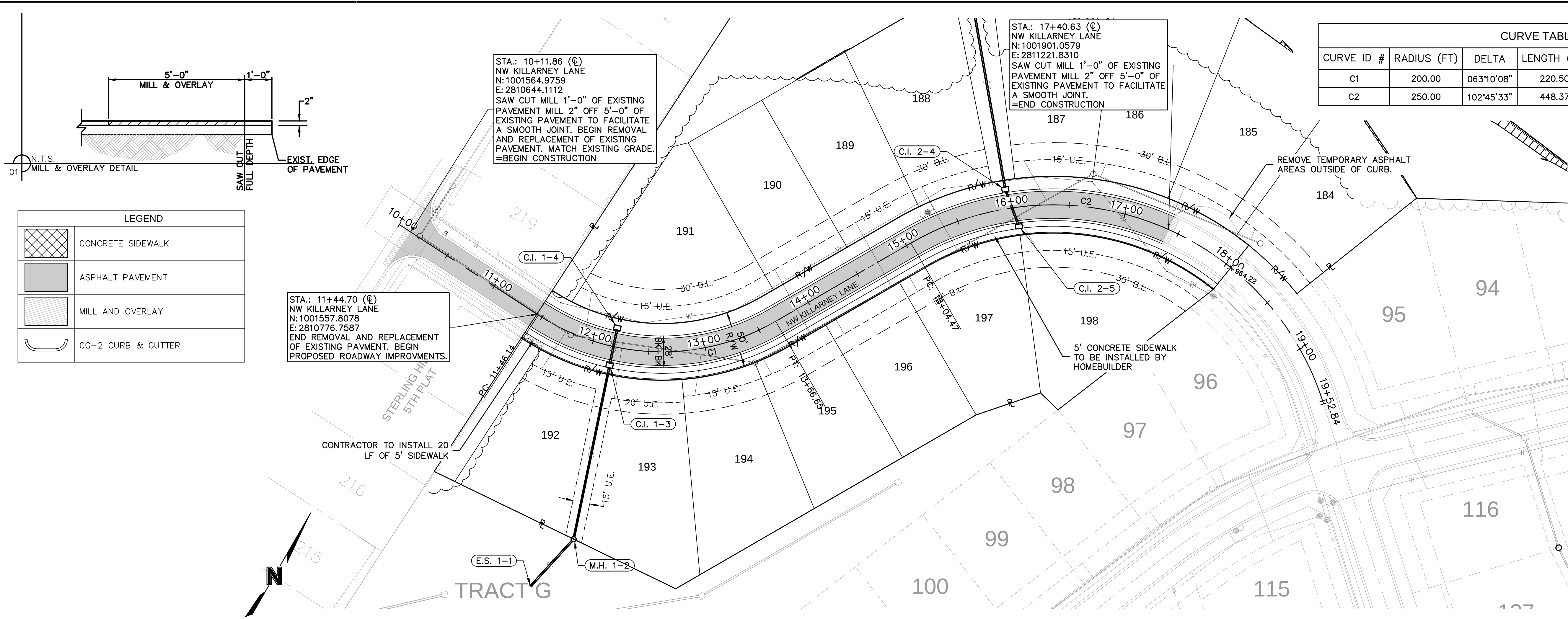
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SHEET

C109

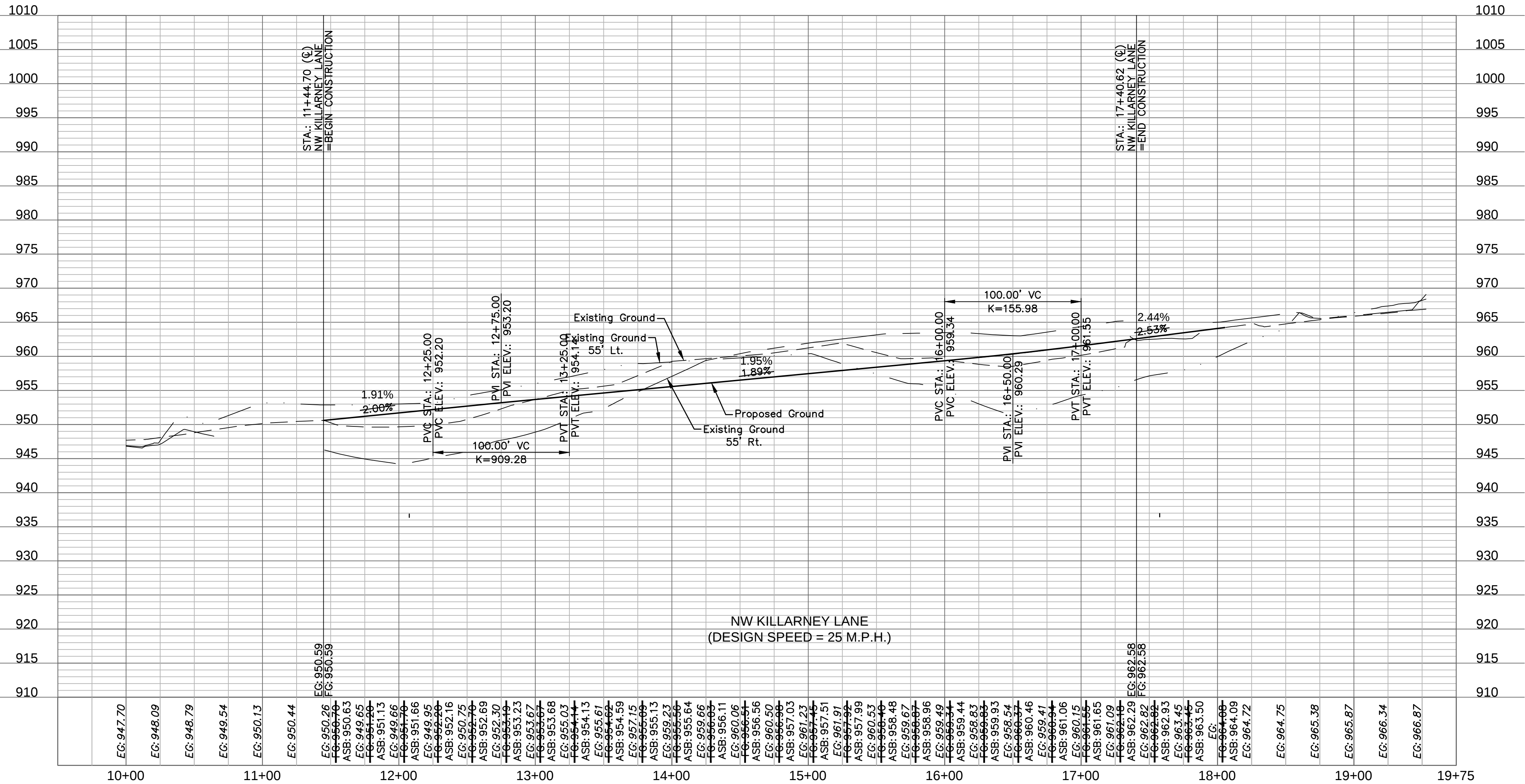
olsson

NO. 001140-001 of 001140-001
303 E. MAIN STREET, 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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NOT A Seal of the State of Missouri
JULIE ELAINE SELLERS
NUMBER
PE-2017000367
2024/22
PROFESSIONAL ENGINEER

BY

REVISIONS DESCRIPTION

DATE

NO. REV.

ROADWAY PLAN & PROFILE
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

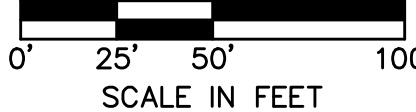
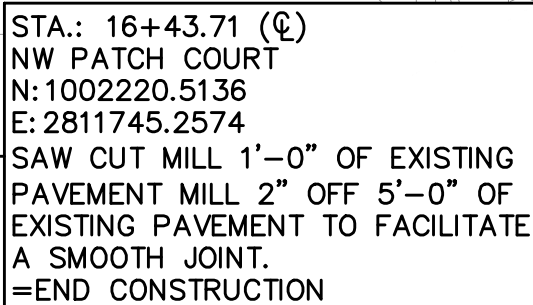
LEE'S SUMMIT, MO

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
C110

2020

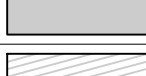
REVISIONS

 CG-2 CURB & GUTTER

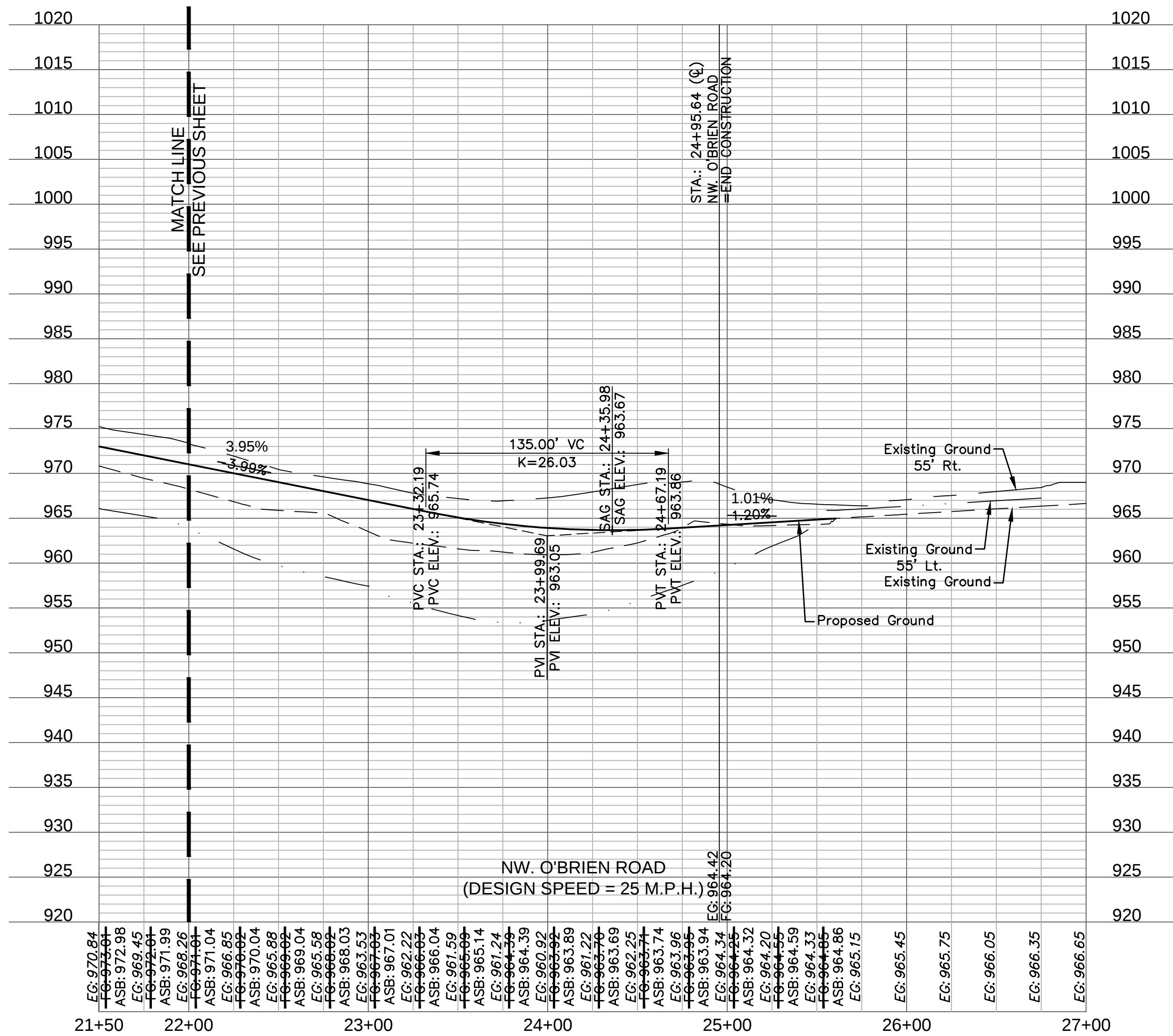
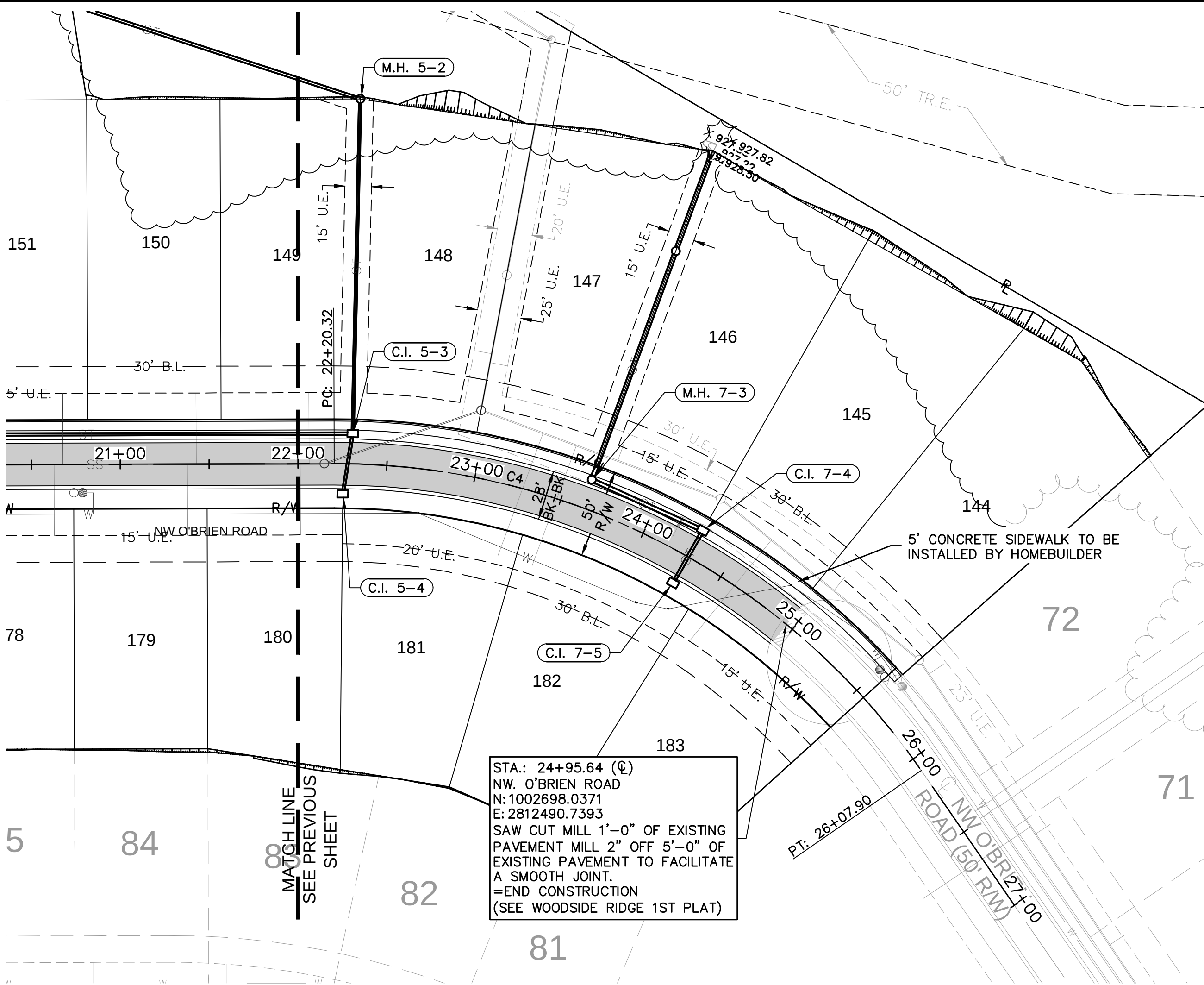
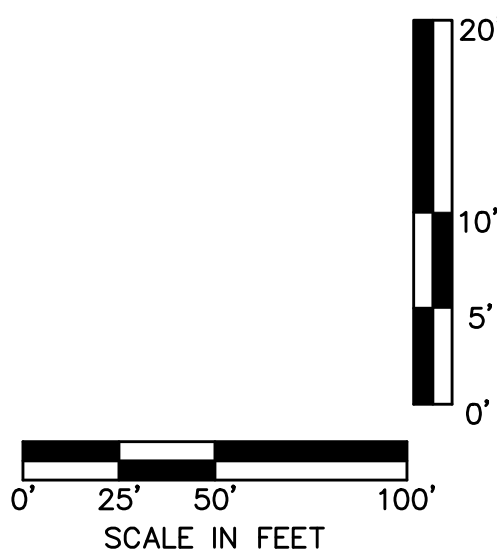
ASBUILT
03-24-2022

SHEET
C111



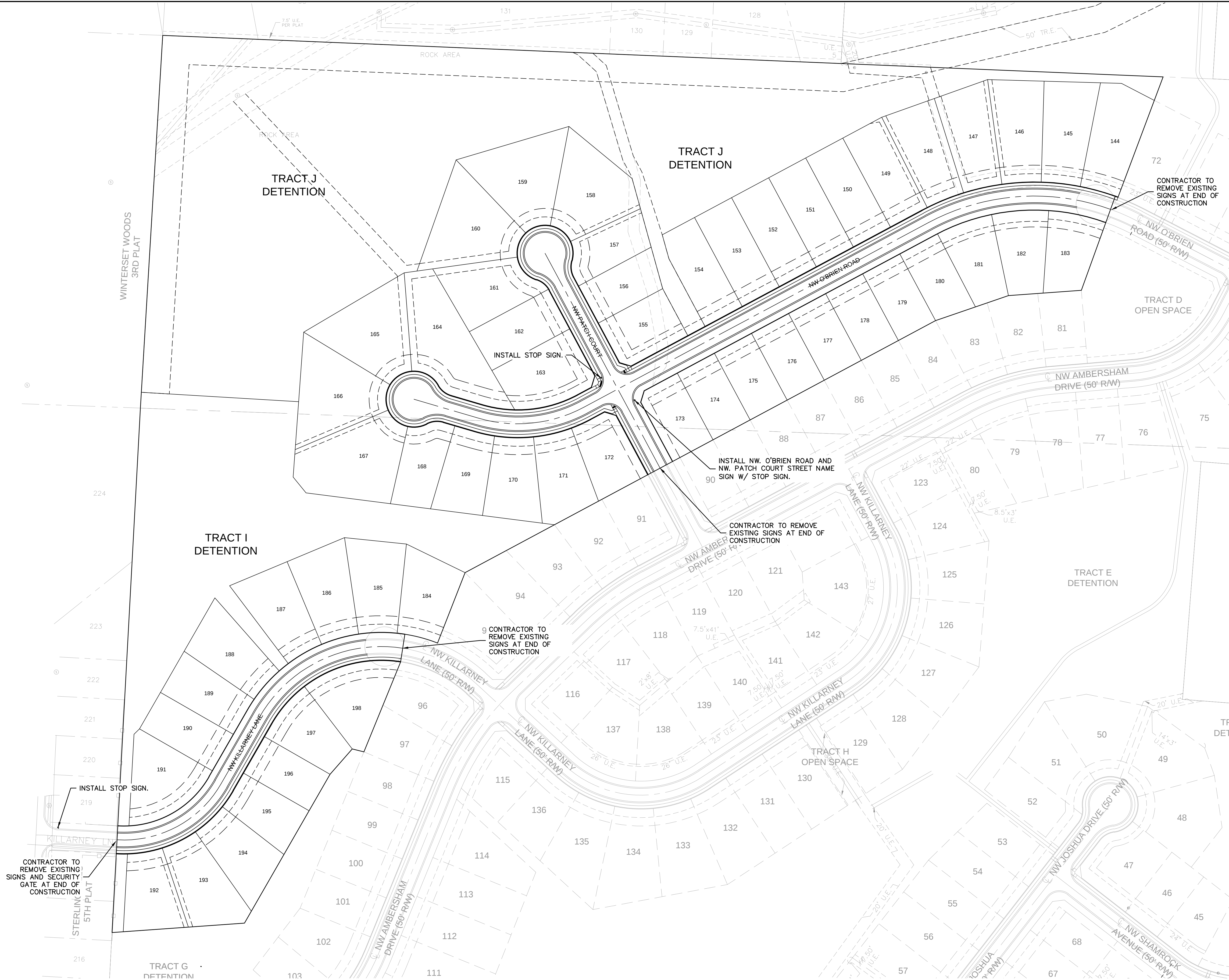
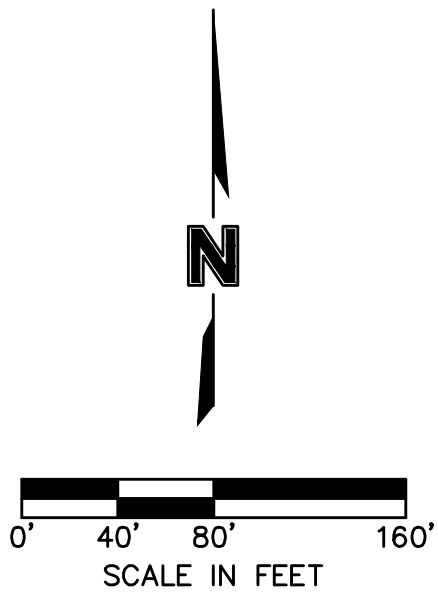
LEGEND	
	CONCRETE SIDEWALK
	ASPHALT PAVEMENT
	MILL AND OVERLAY
	CG-2 CURB & GUTTER

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

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilt\Sheets\GNCV\Street & Storm\C_TRF02_C181140.dwg
DATE: Mar 24, 2022 10:49am
USER: ssaylor



NOT ASBUILT

TRAFFIC CONTROL PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

LEE'S SUMMIT, MO

NO. REV.

DATE

REVISIONS DESCRIPTION

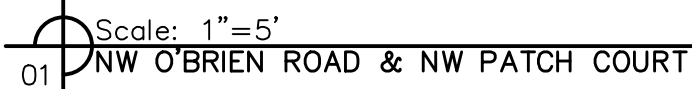
BY

2020

REVISIONS

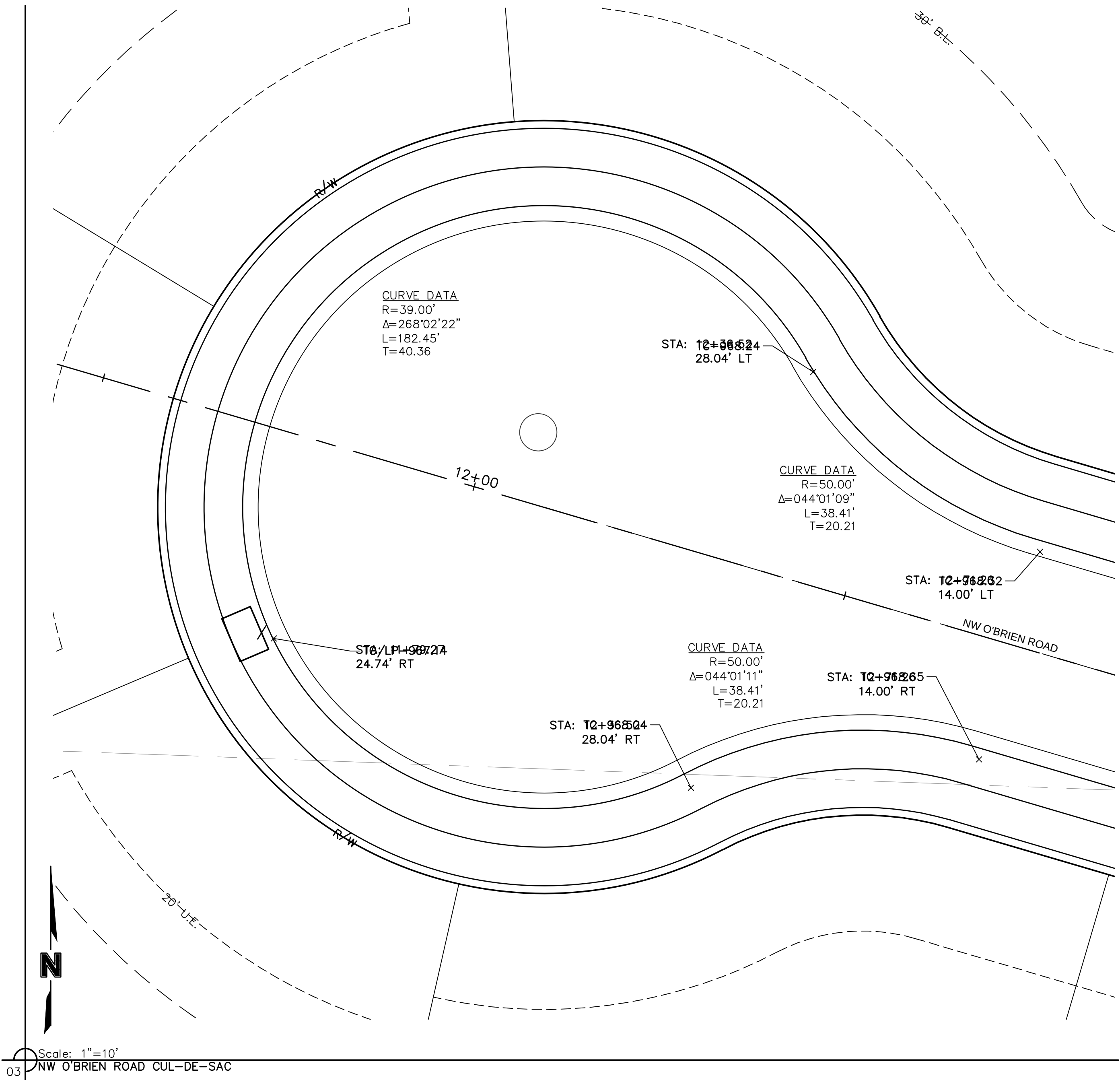
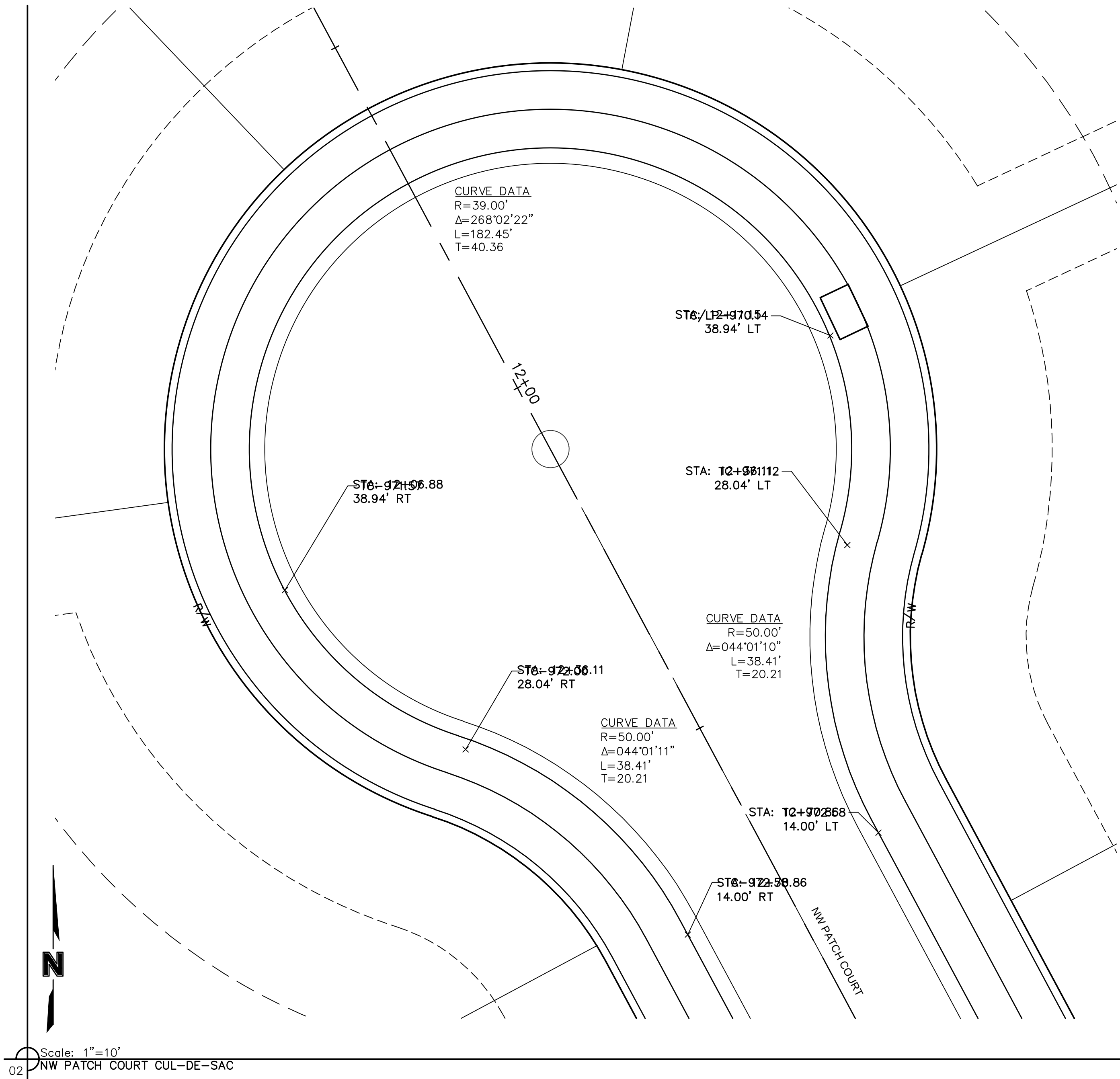
drawn by: C.S.M.
checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

olsson
Professional Engineer
JULIE ELAINE SELLERS
NUMBER PE-2017000367
2024/22
STATE OF MISSOURI
Professional Engineer
www.olsson.com
TEL 816.861.1177
NORTH KANSAS CITY, MO 64116
300 E. BURNING TREE SUITE 100
NO. 10000 of Authority of 03/19/92

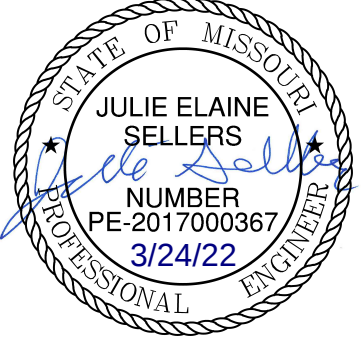


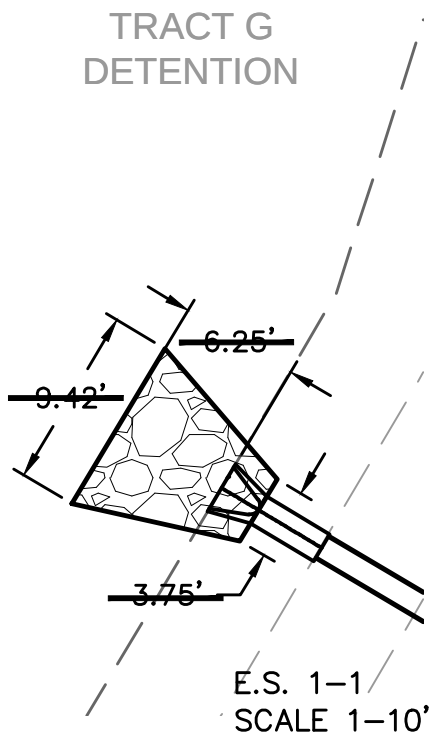
NOT ASBUILT

[illegible]



NOT ASBUILT

[illegible]



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

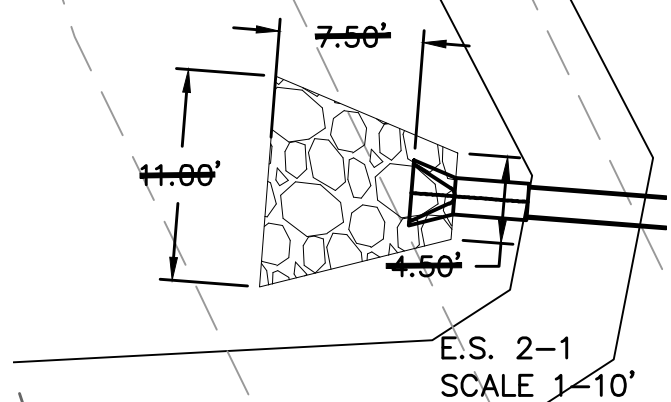
*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18

19.74

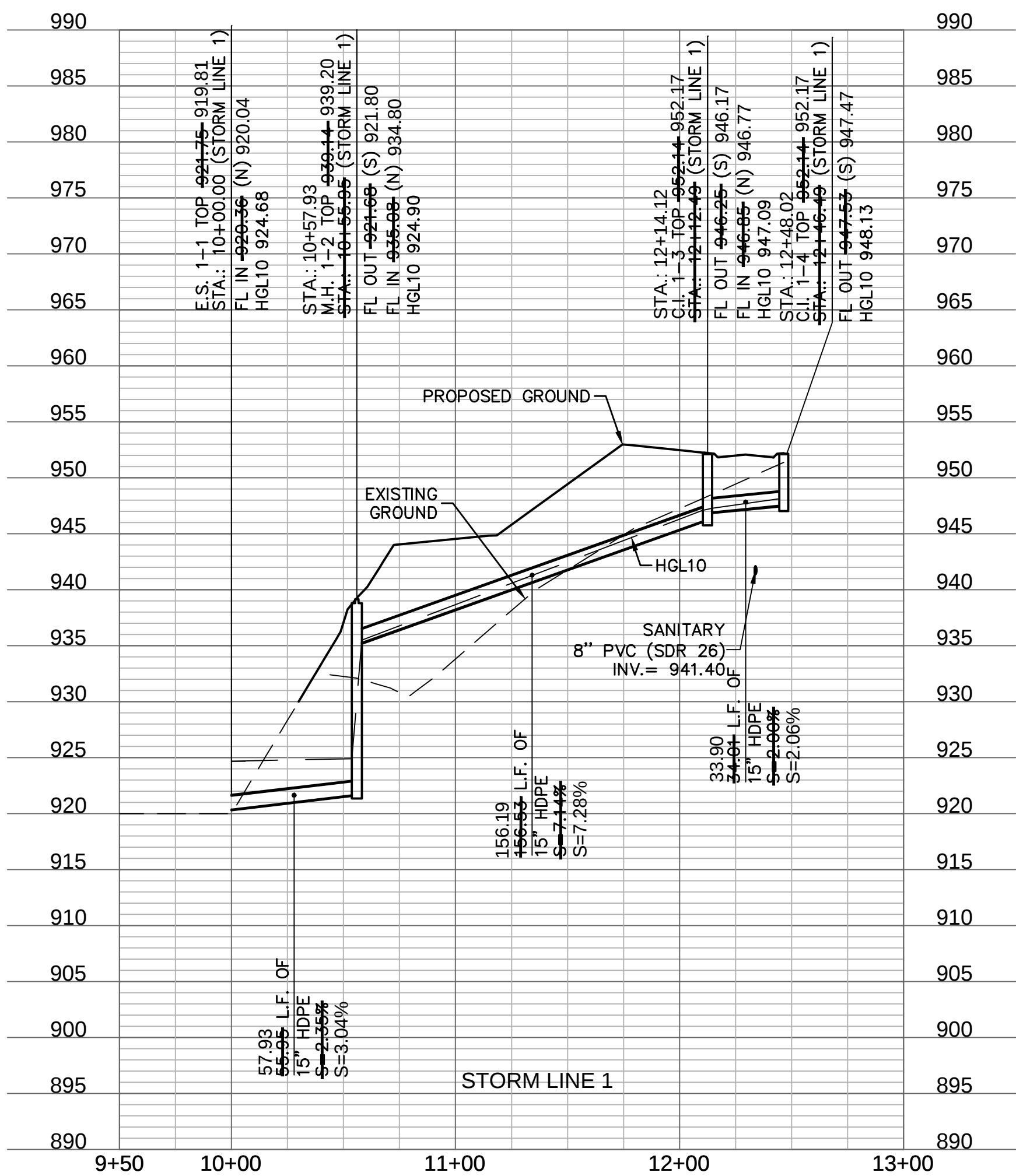
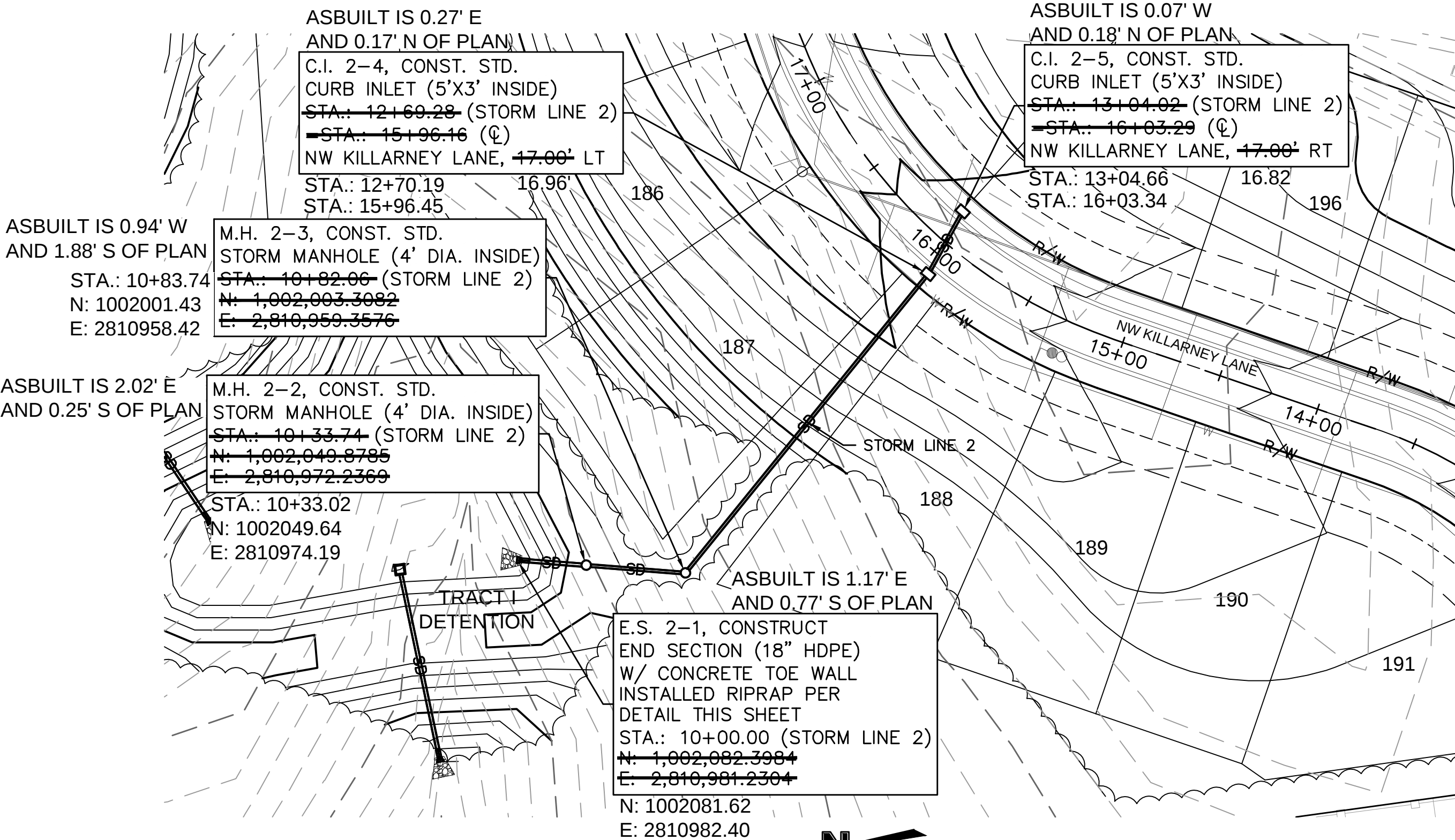
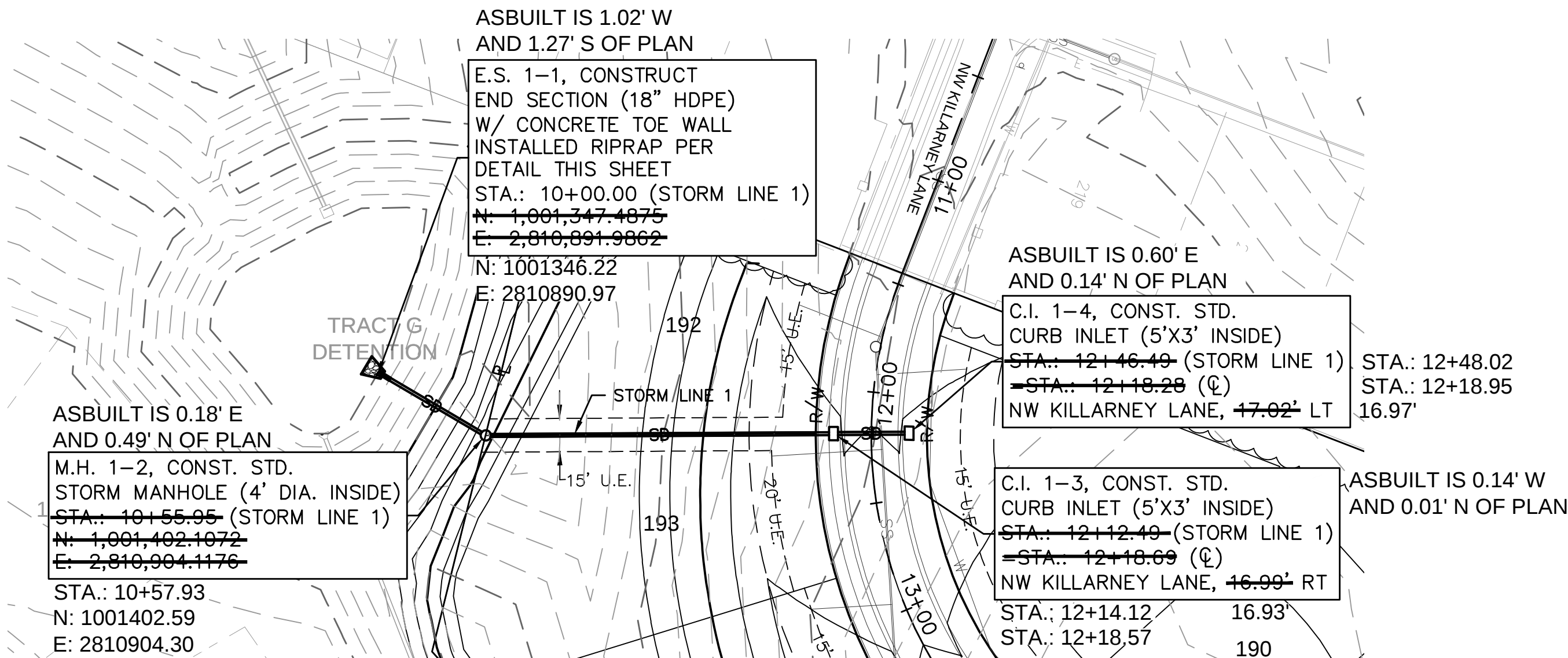
Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 2-1	9.35	1.5	3	10	7.5	2.00

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

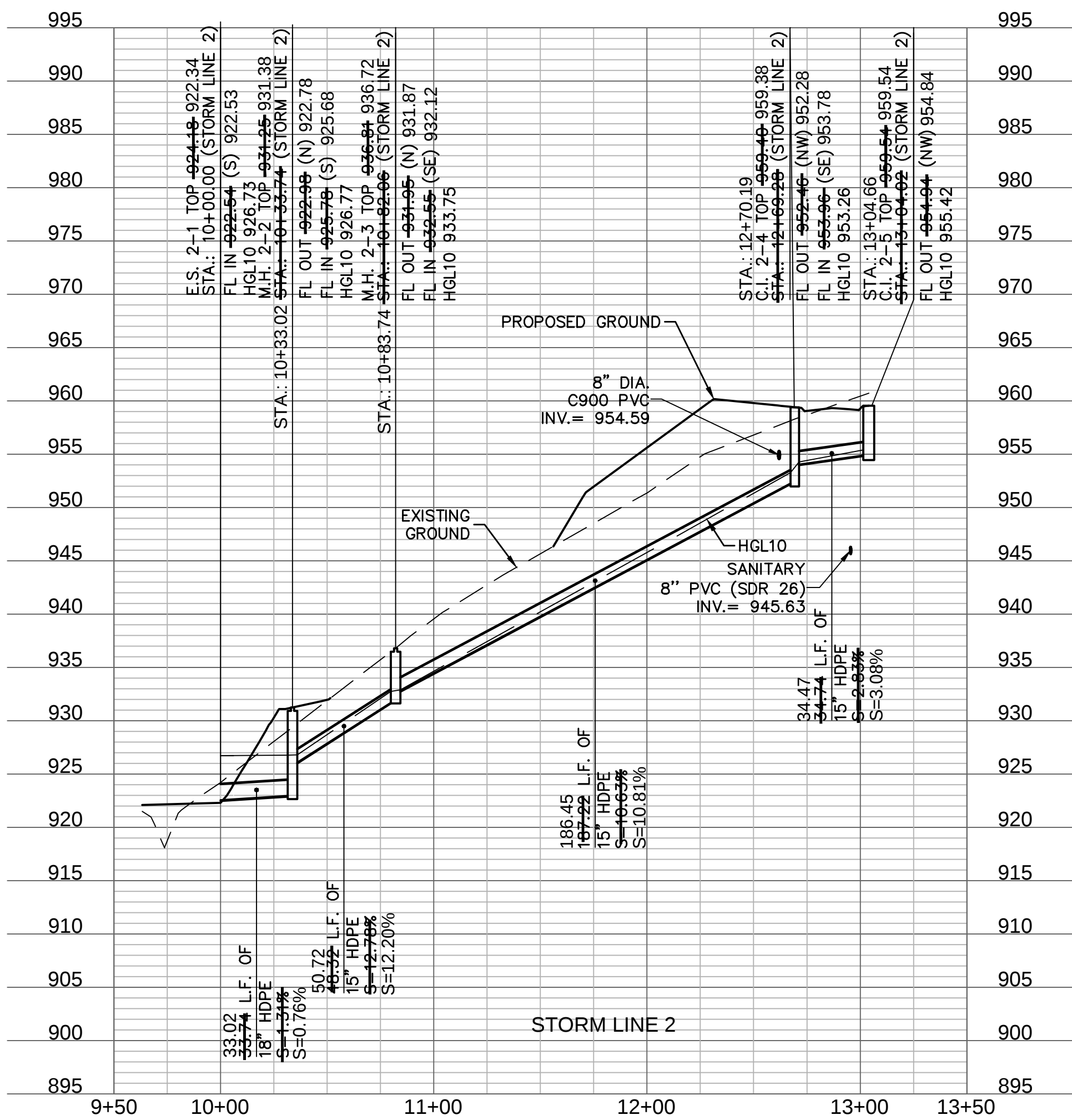
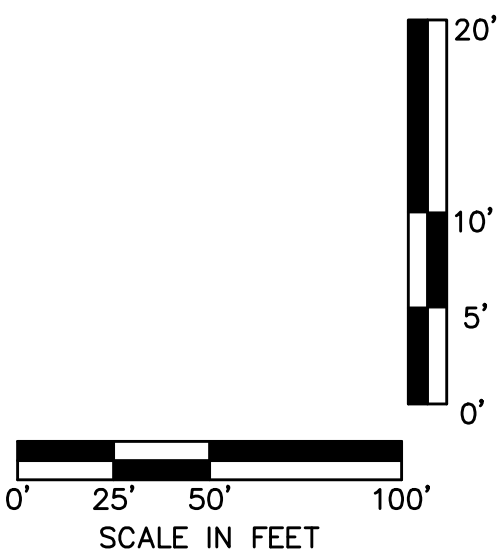
7.9



E.S. 2-1
SCALE 1"=10'



ASBUILT
03-24-2022



STORM SEWER PLAN & PROFILE
STREET & STORM SEWER PLANS

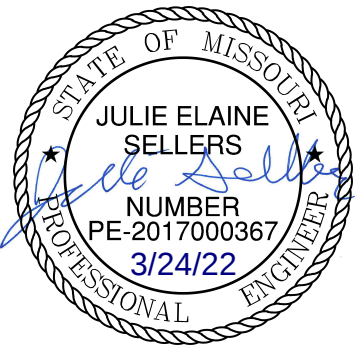
WOODSIDE RIDGE
SECOND PLAT

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
C117

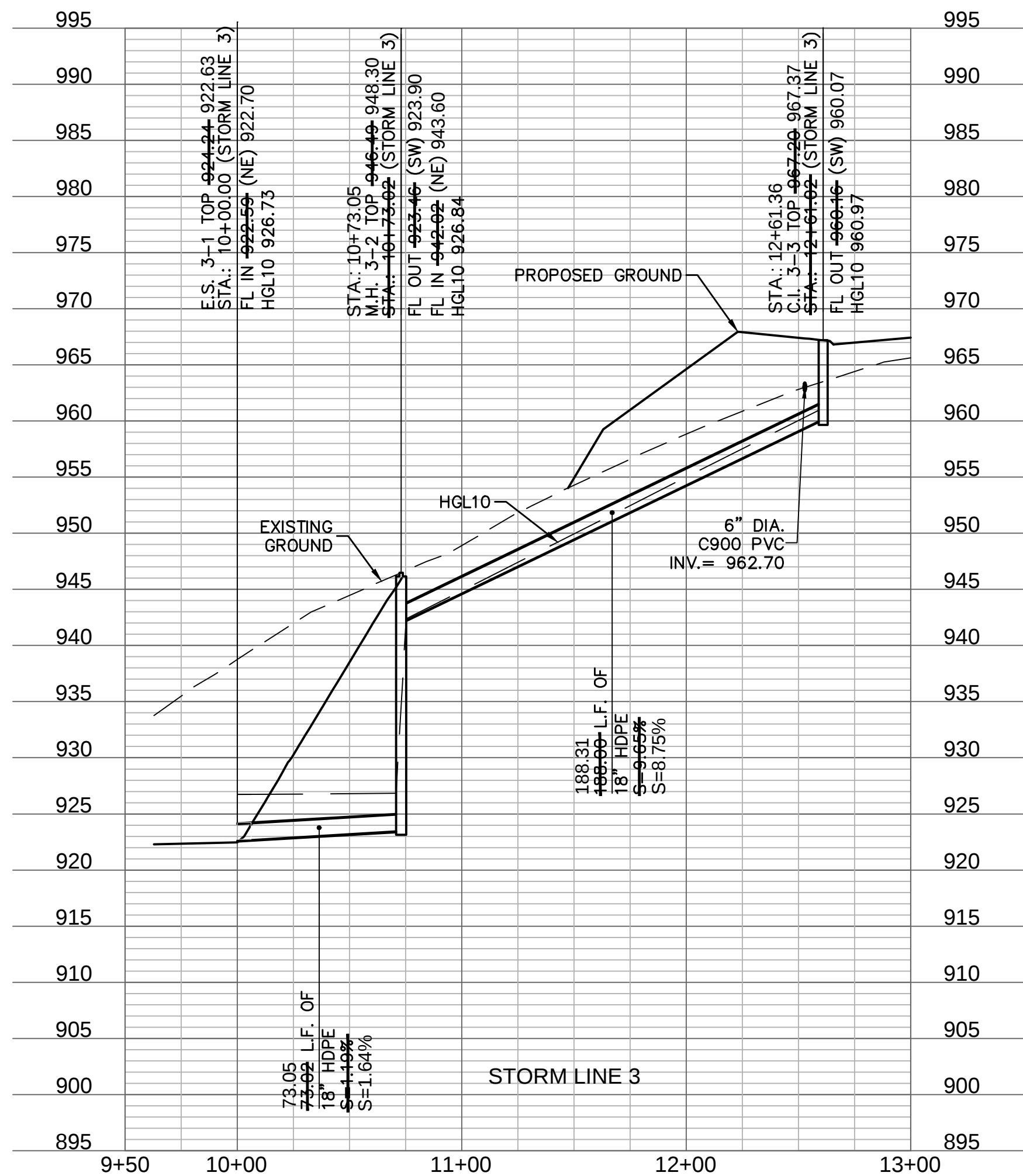


BY		REVISIONS DESCRIPTION	
NO.	REV.	DATE	REVISIONS DESCRIPTION
2		3/16/2021	REVISED PER CONTRACTOR COMMENT

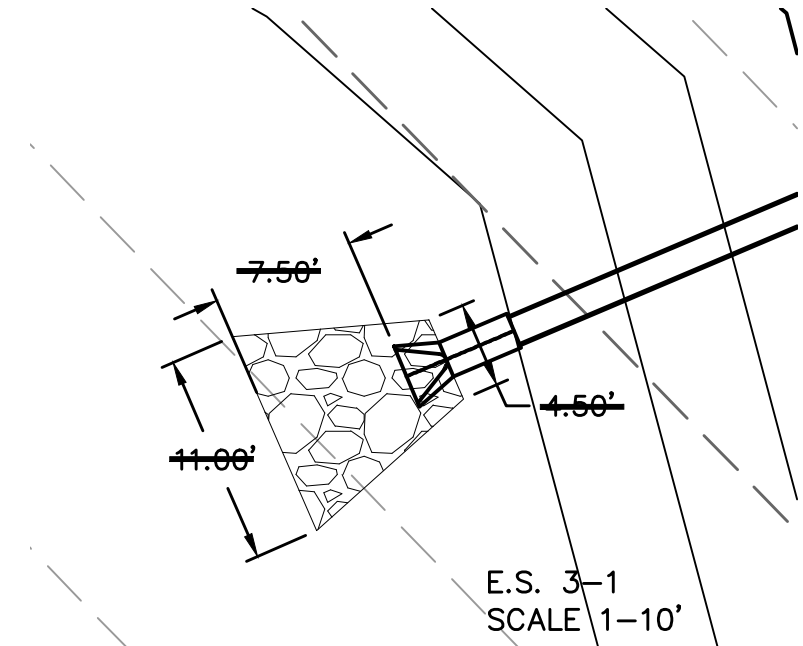
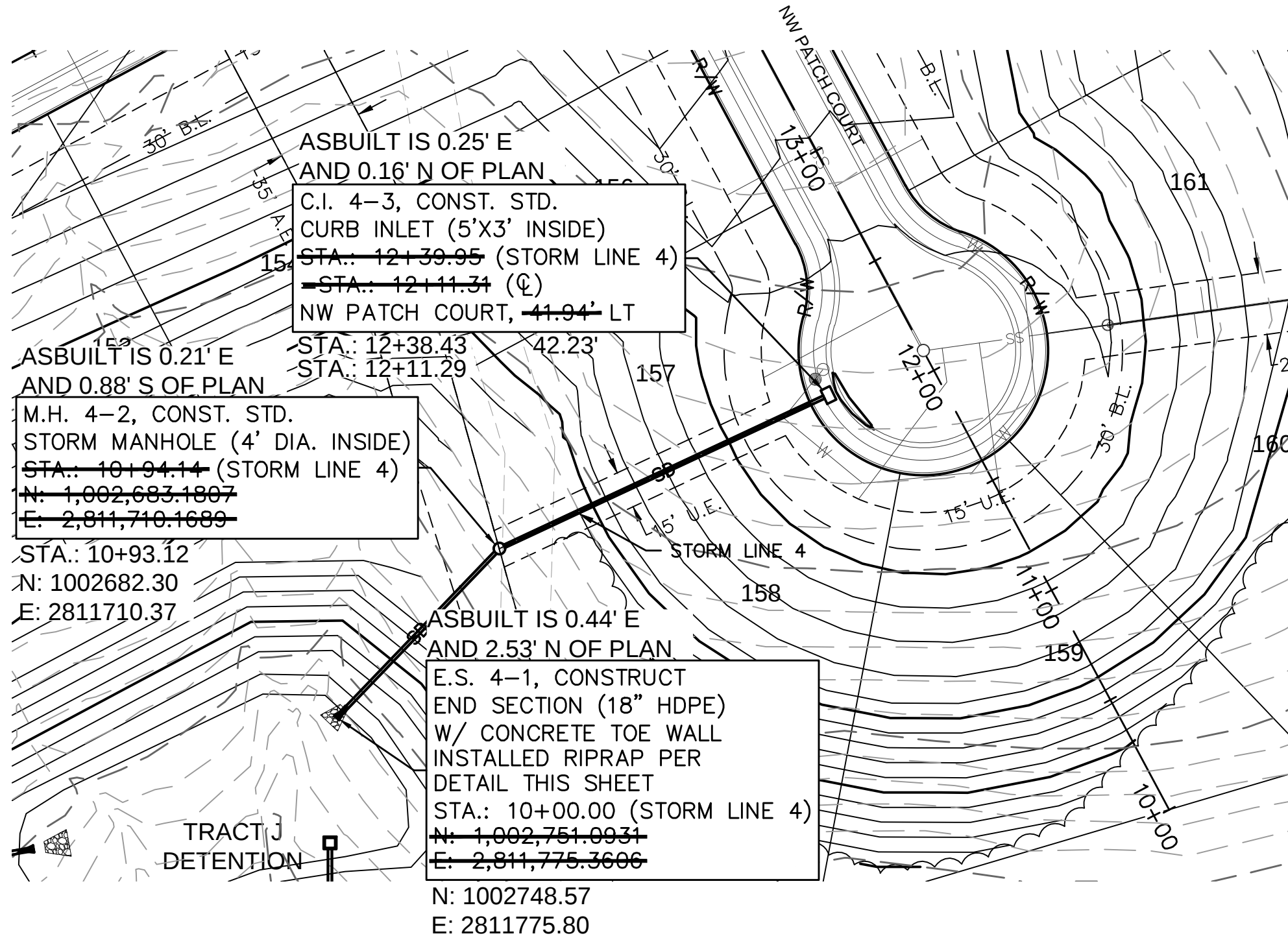
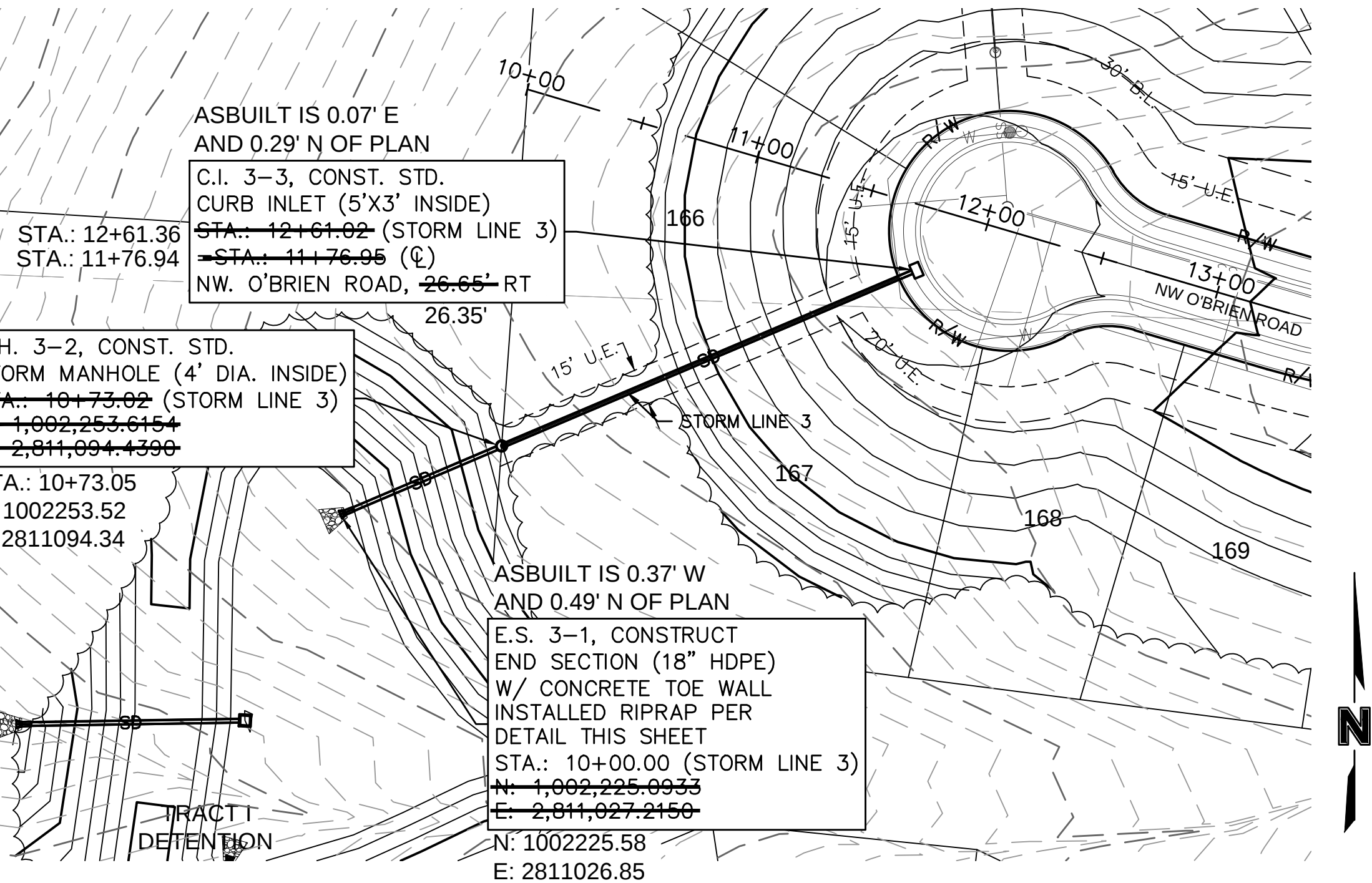
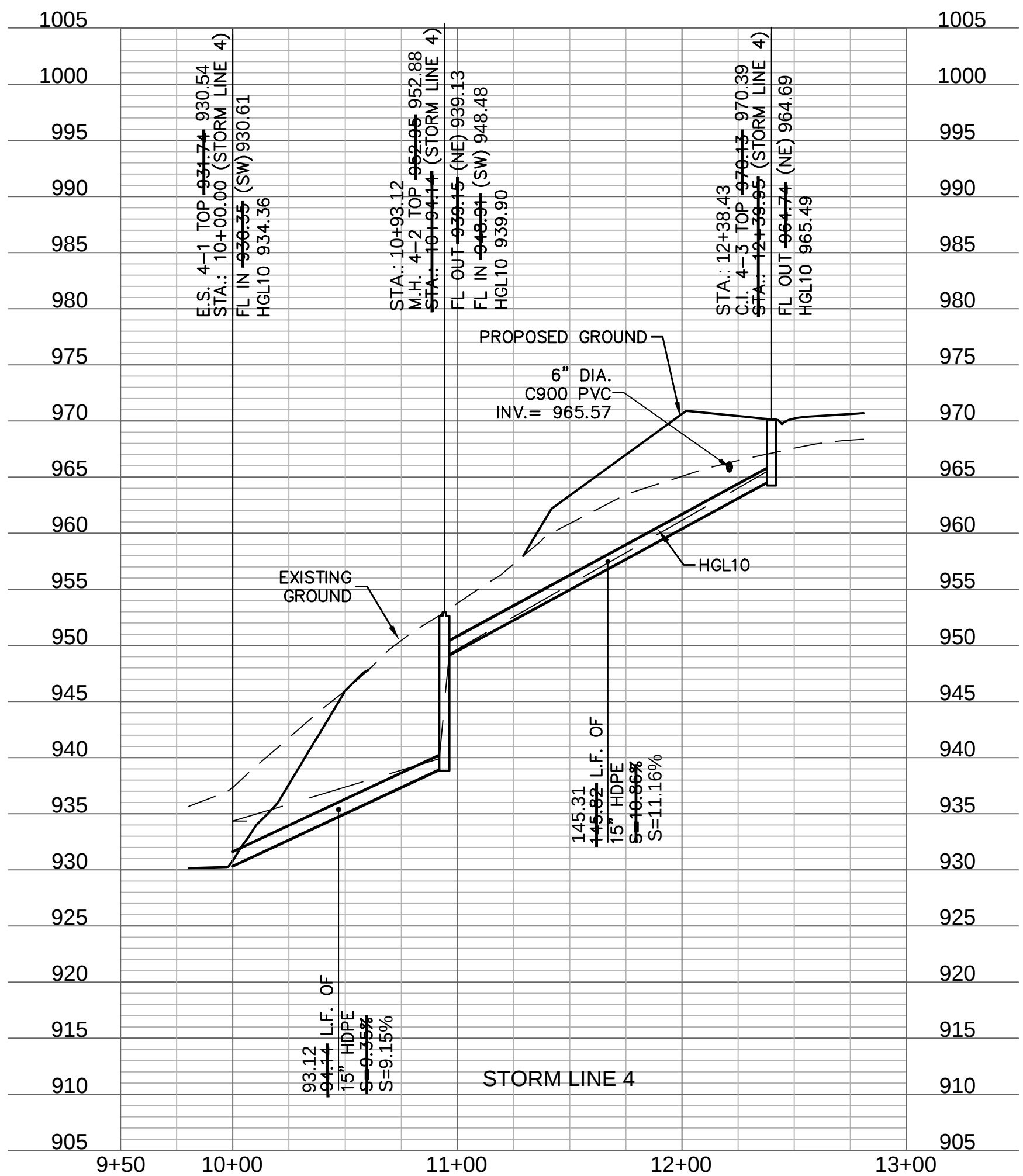
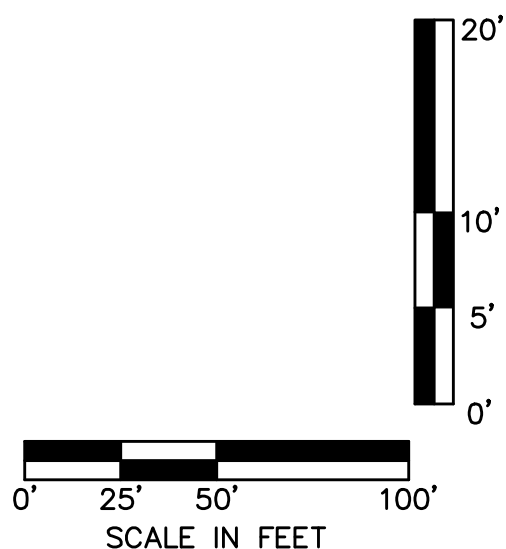
REVISIONS

olsson

NO. 001-001-001-001-001
300 E. MAIN STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM

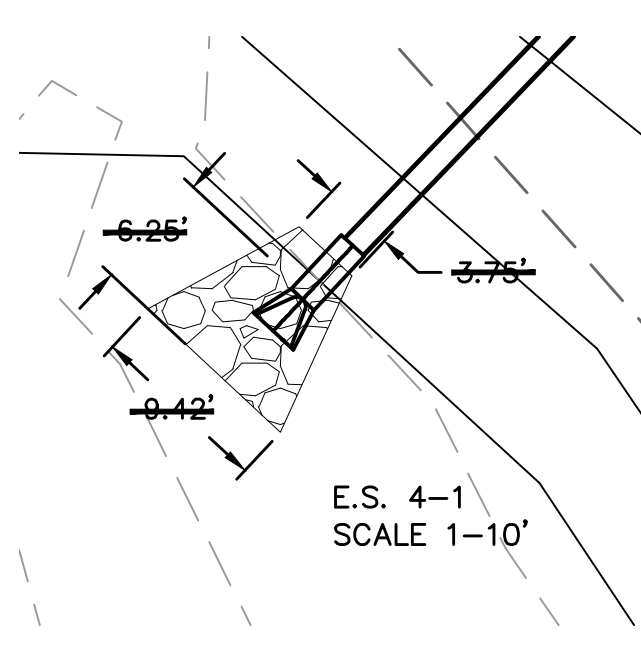


ASBUILT
03-24-2022



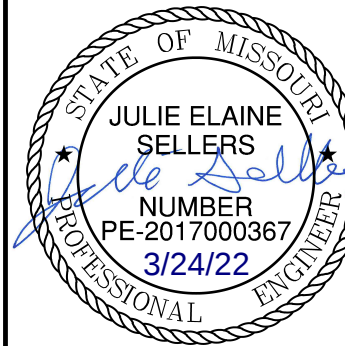
Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 3-1	7.83	1.5	3	10	7.5	2.00

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



Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
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



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

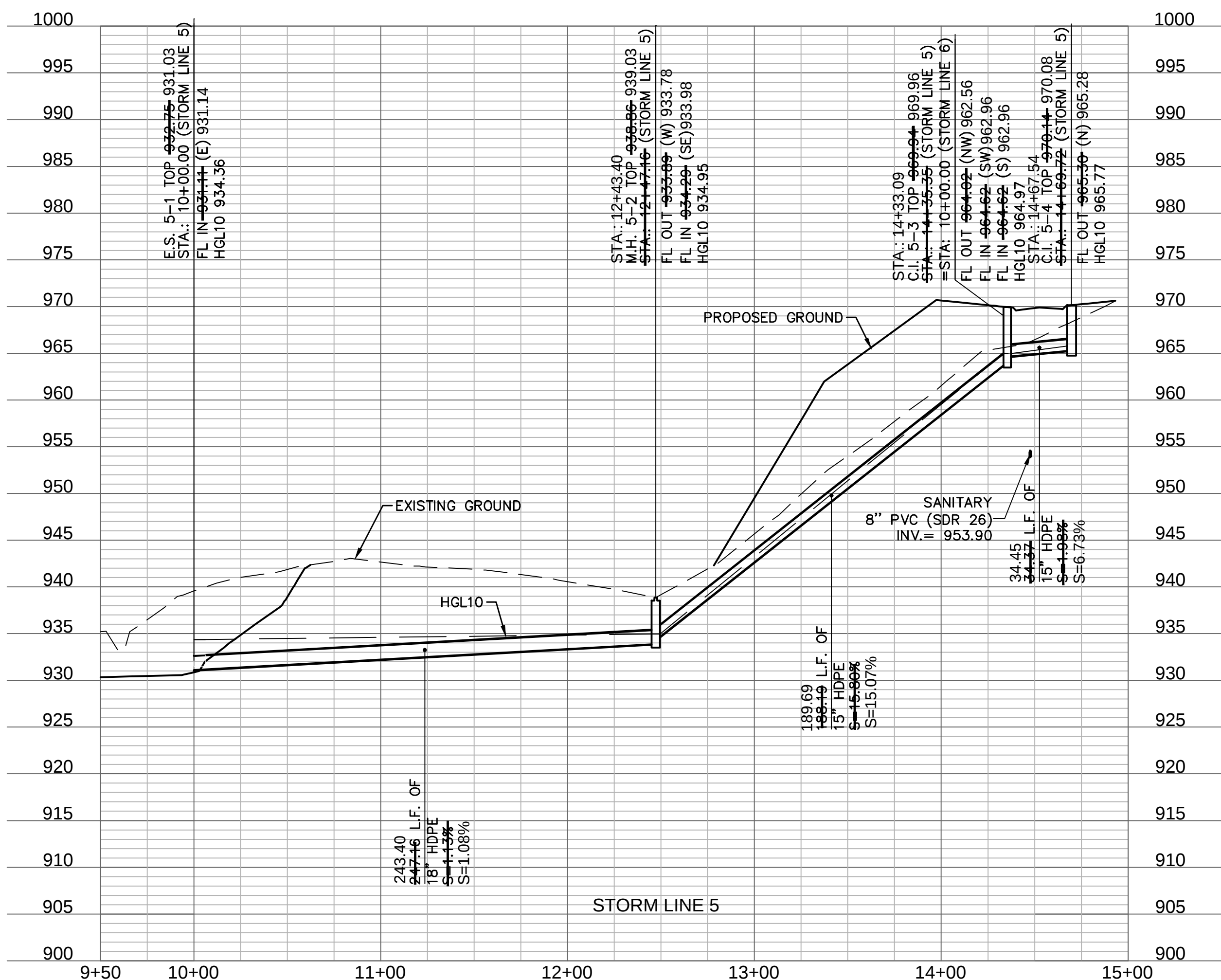
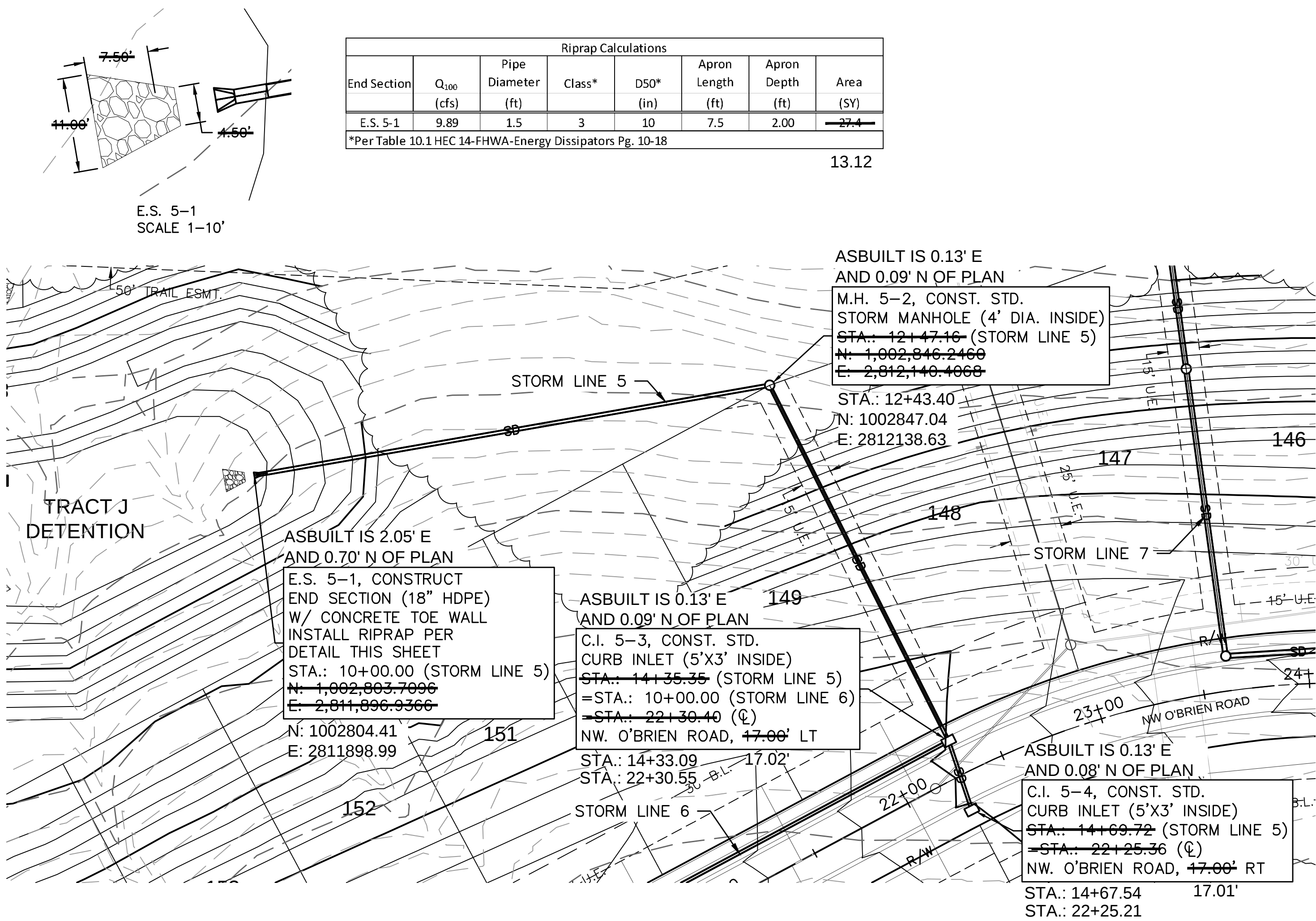
STORM SEWER PLAN & PROFILE STREET & STORM SEWER PLANS		WOODSIDE RIDGE SECOND PLAT	
LEE'S SUMMIT, MO		2020	

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

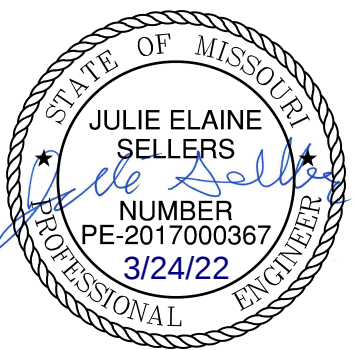
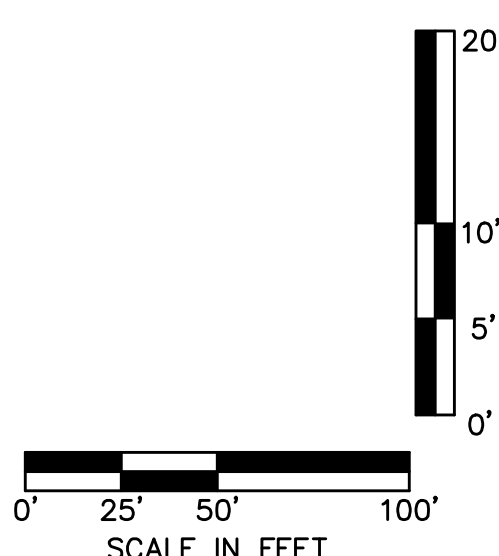
SHEET
C118

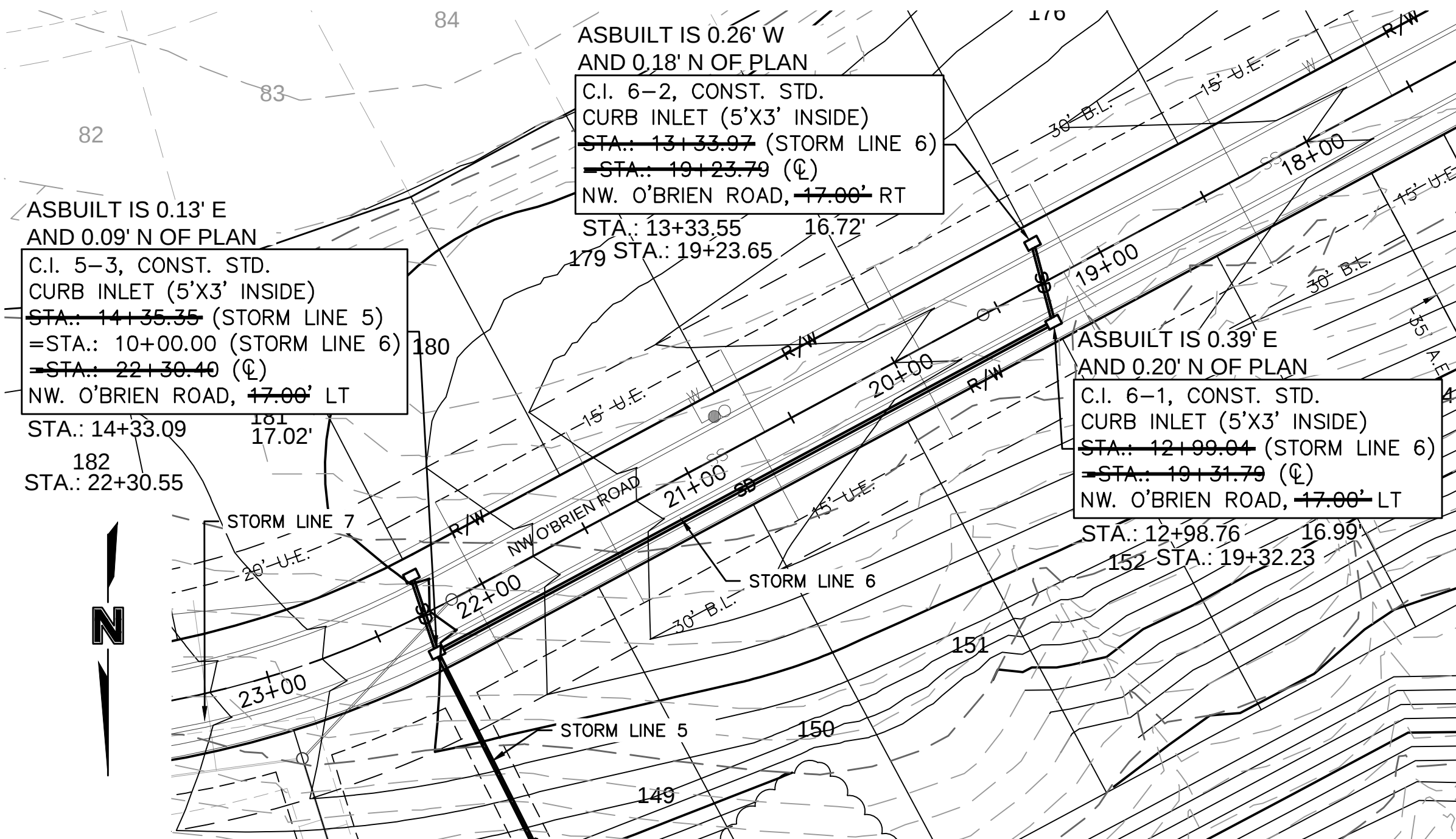
olsson

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

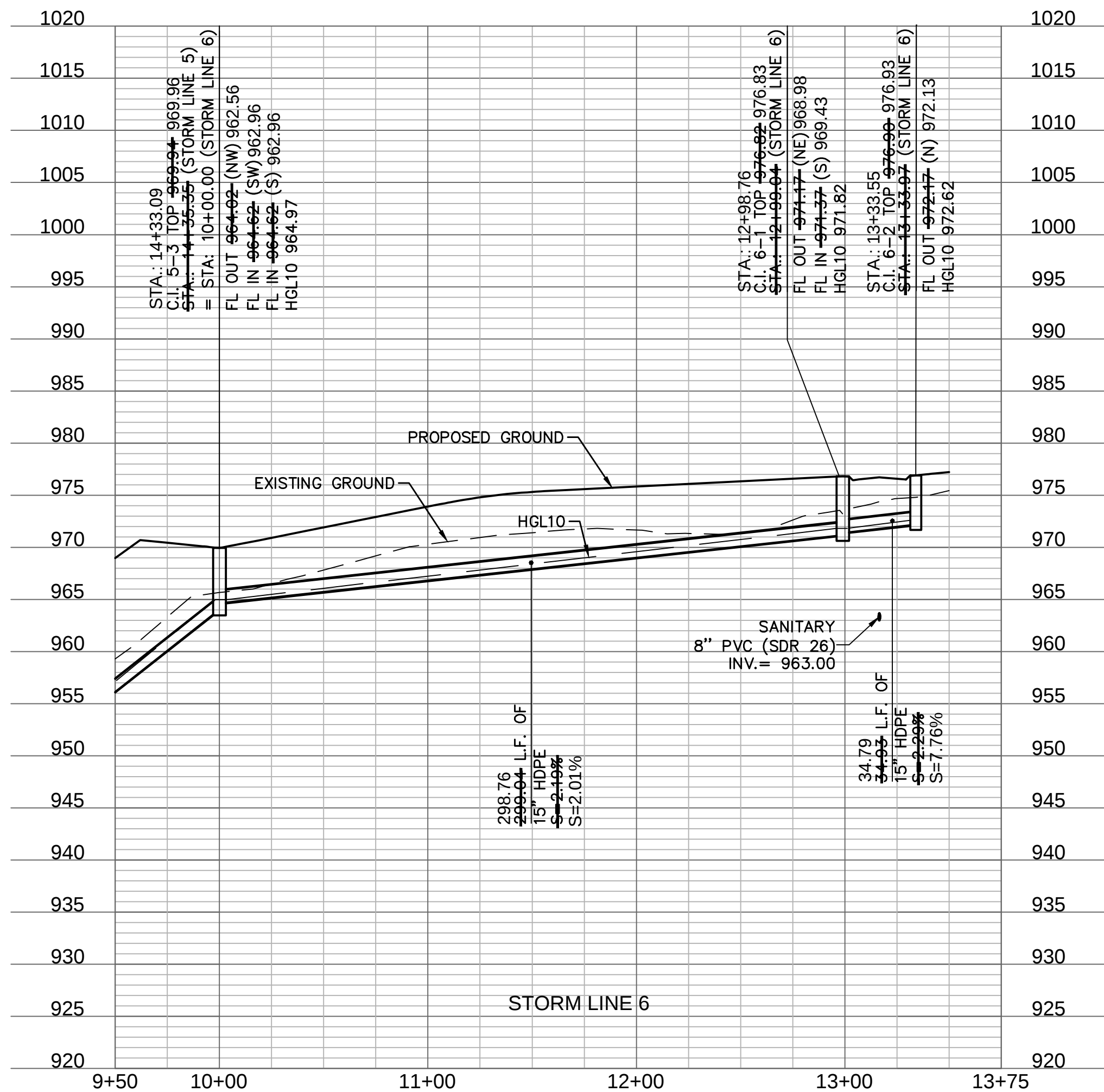
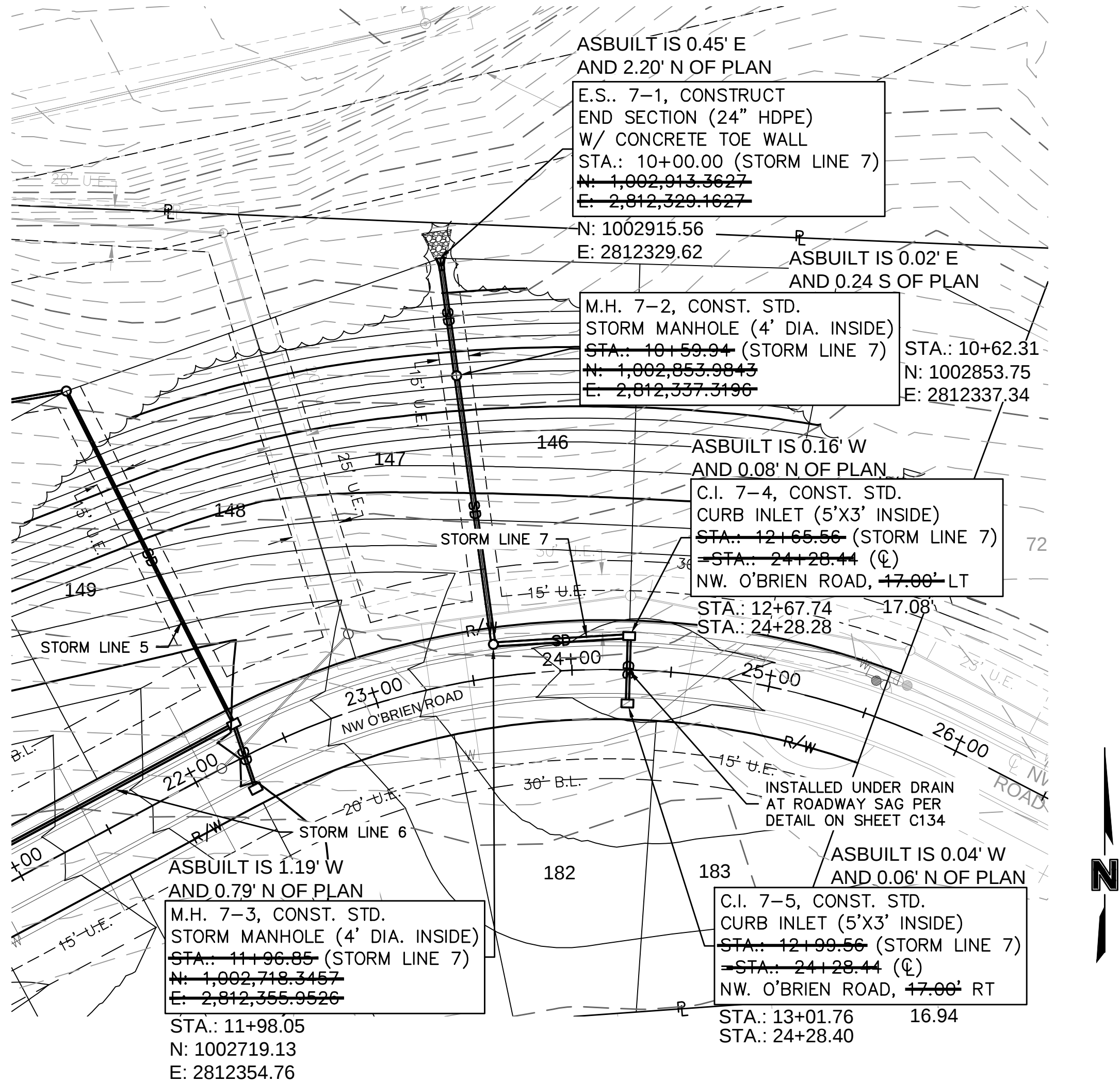
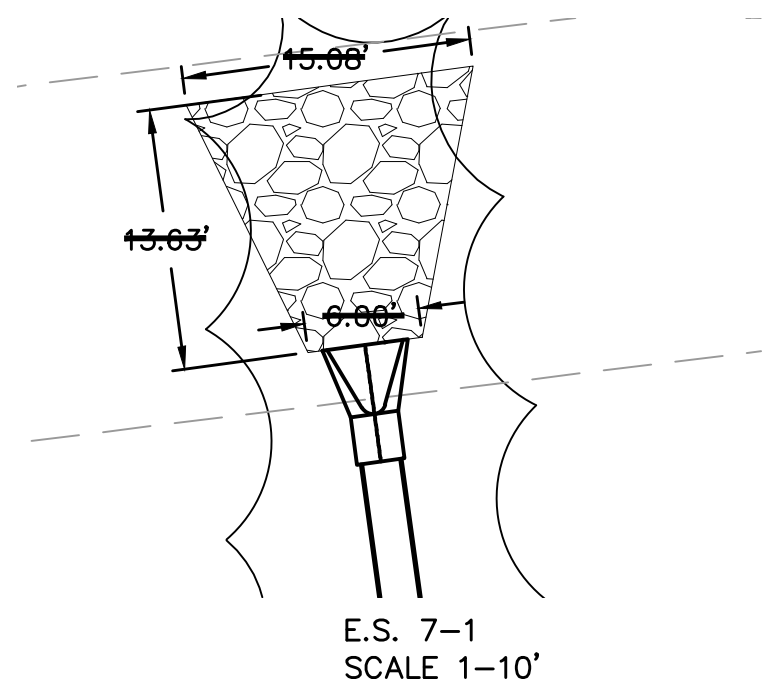


ASBUILT
03-24-2022

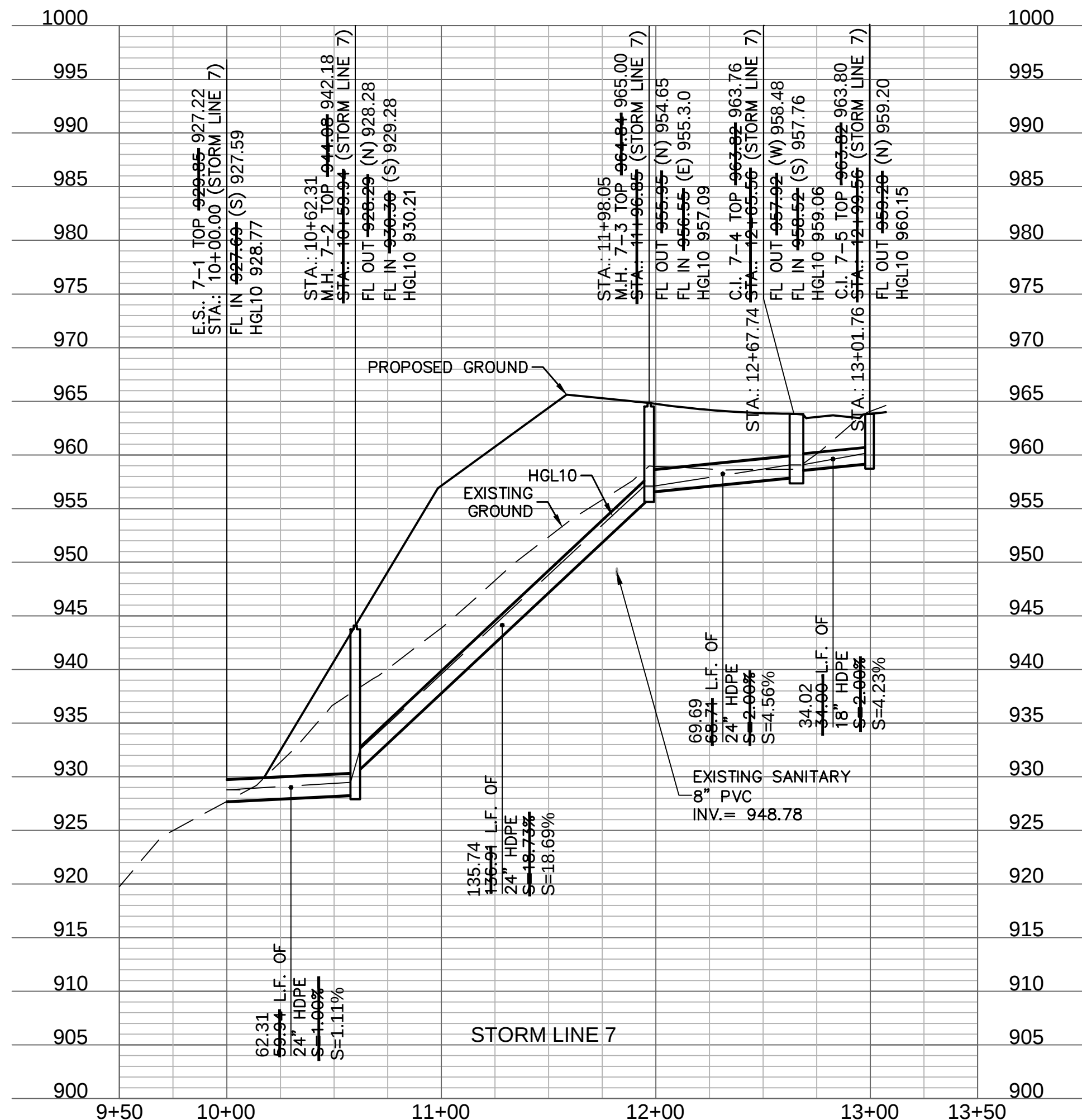
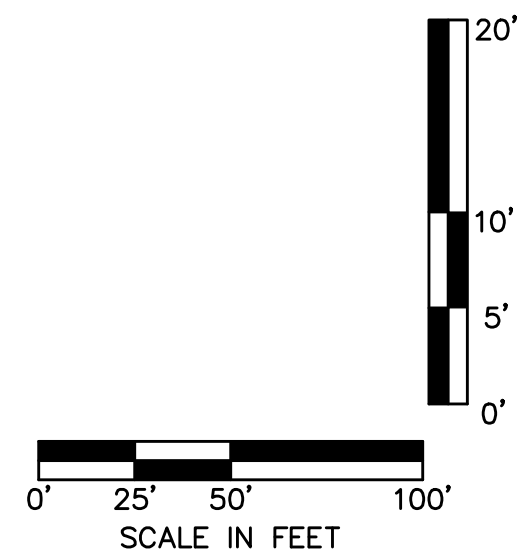




Riprap Calculations						
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)
E.S. 7-1	18.97	2	3	10	10	2.00
*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18						12.40



ASBUILT
03-24-2022



STORM SEWER PLAN & PROFILE
STREET & STORM SEWER PLANS

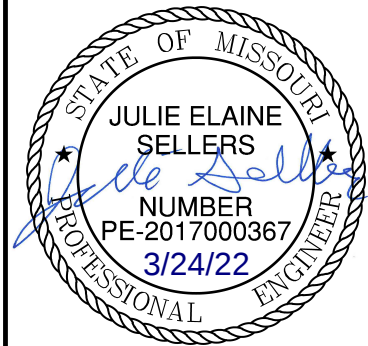
WOODSIDE RIDGE
SECOND PLAT

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

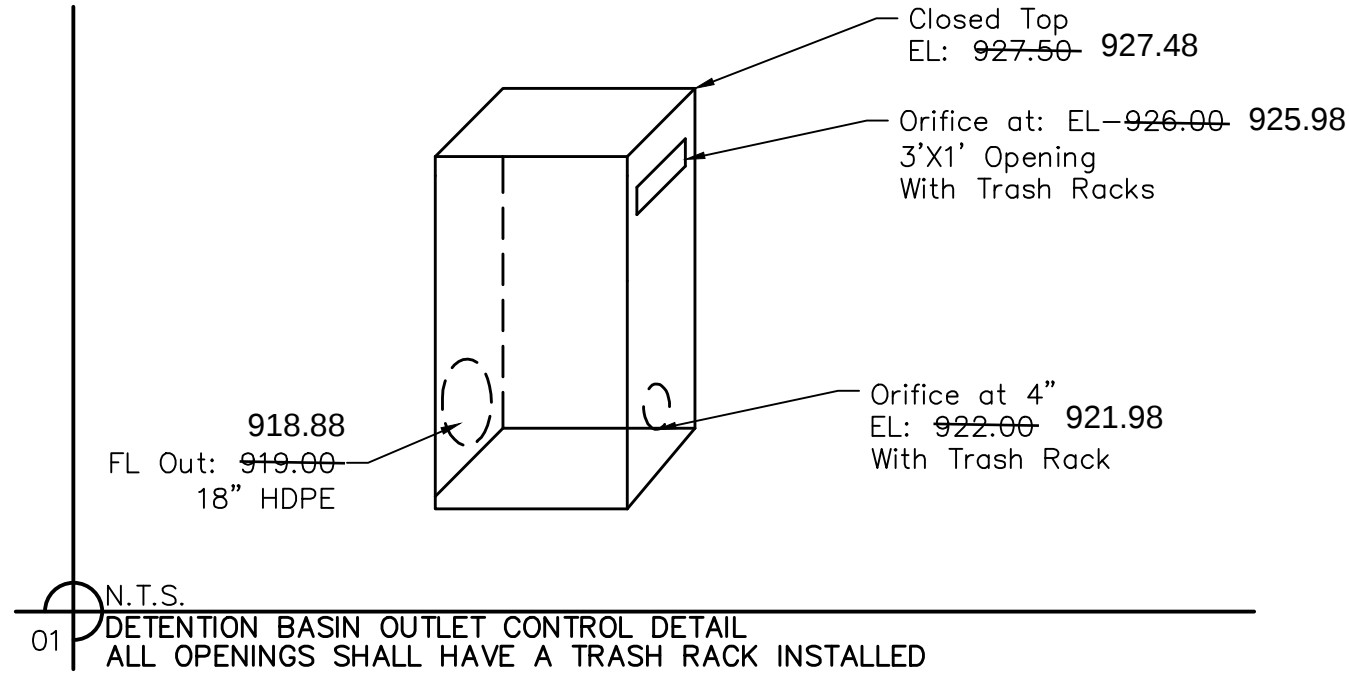


BY		REVISIONS DESCRIPTION	
NO.		REV.	
2		3/16/2021	
		REVISED PER CONTRACTOR COMMENT	

REVISIONS

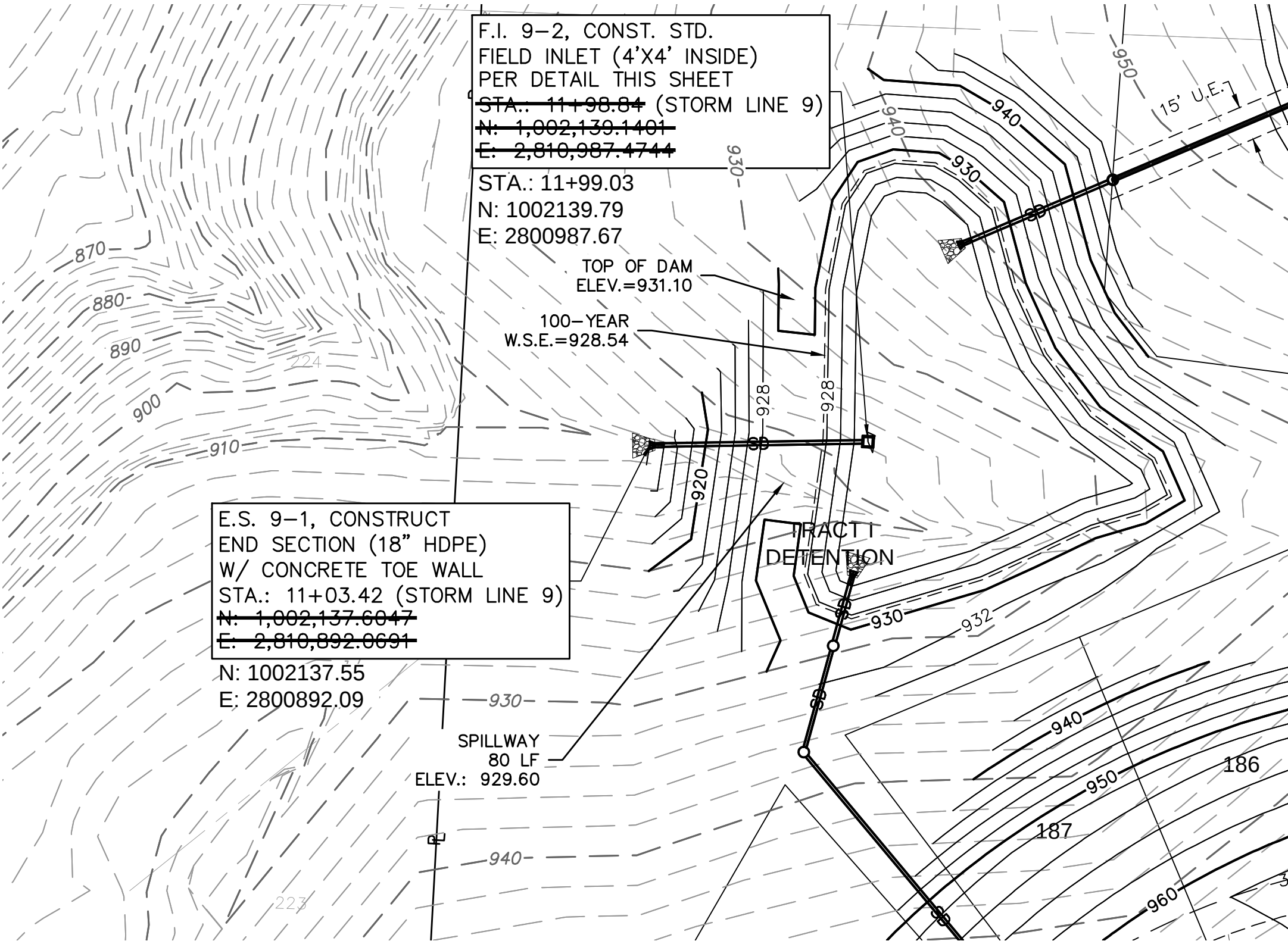
olsson

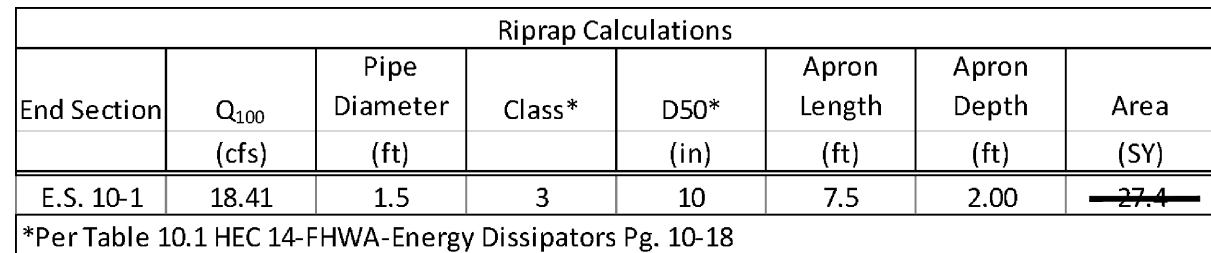
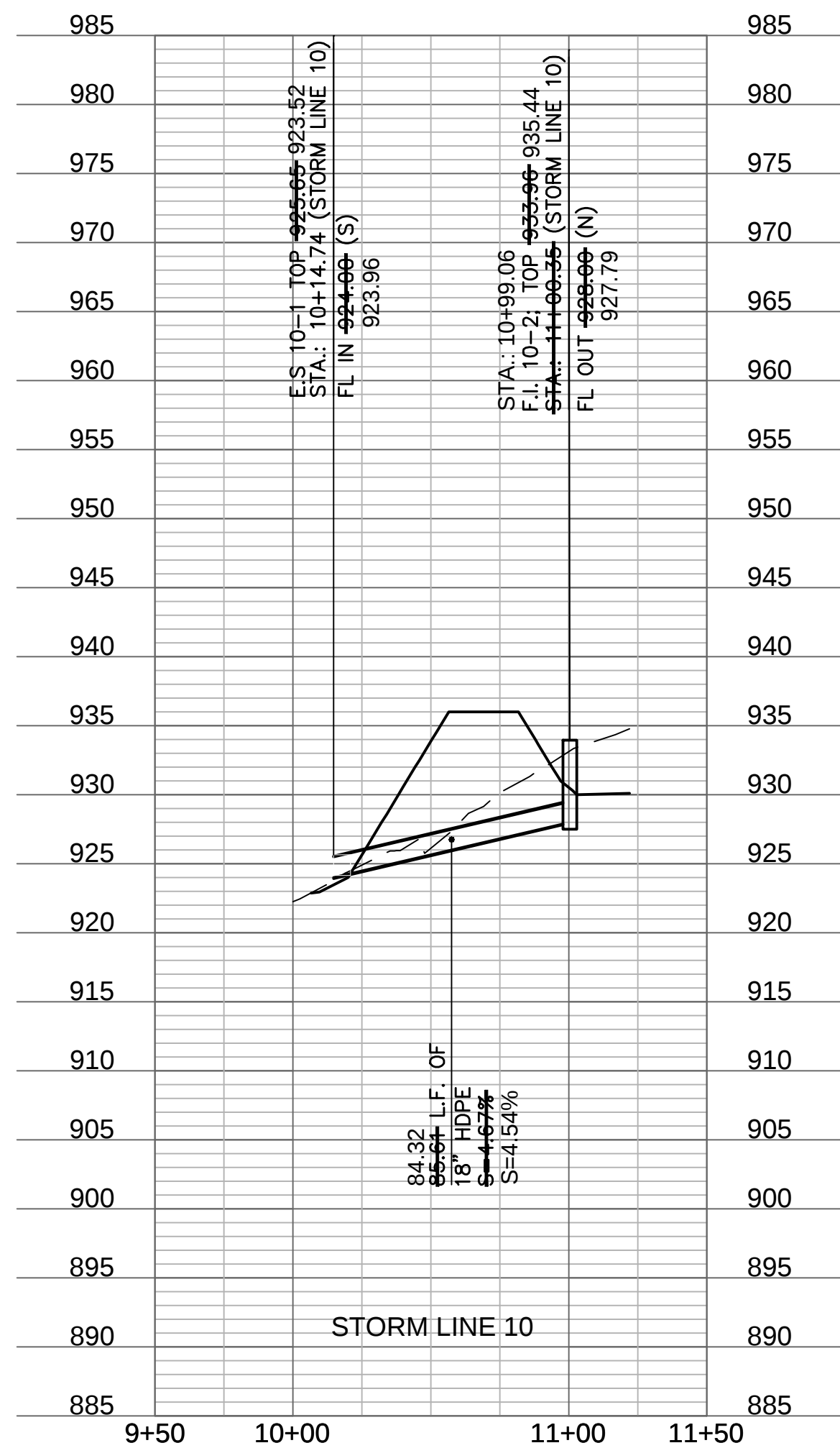
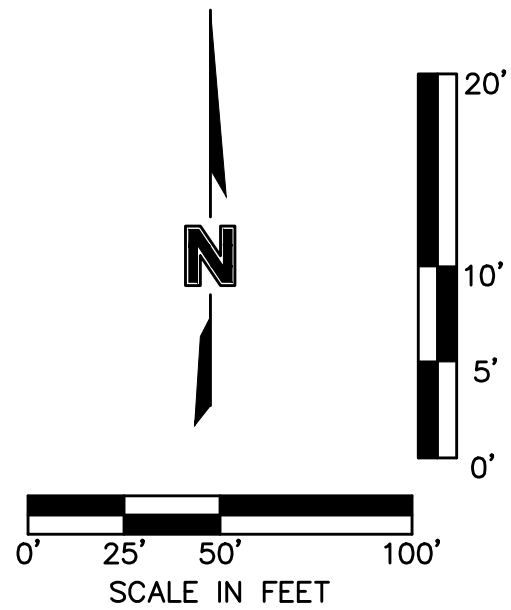
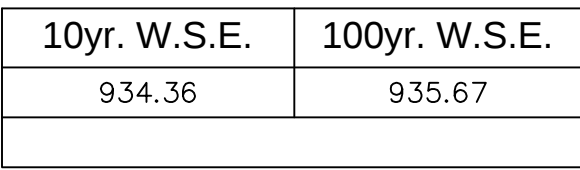
NO. 00000000 of Arkansas at 001892
300 E. MAIN STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM



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

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





23.84

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.

ASBUILT
03-24-2022



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

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.

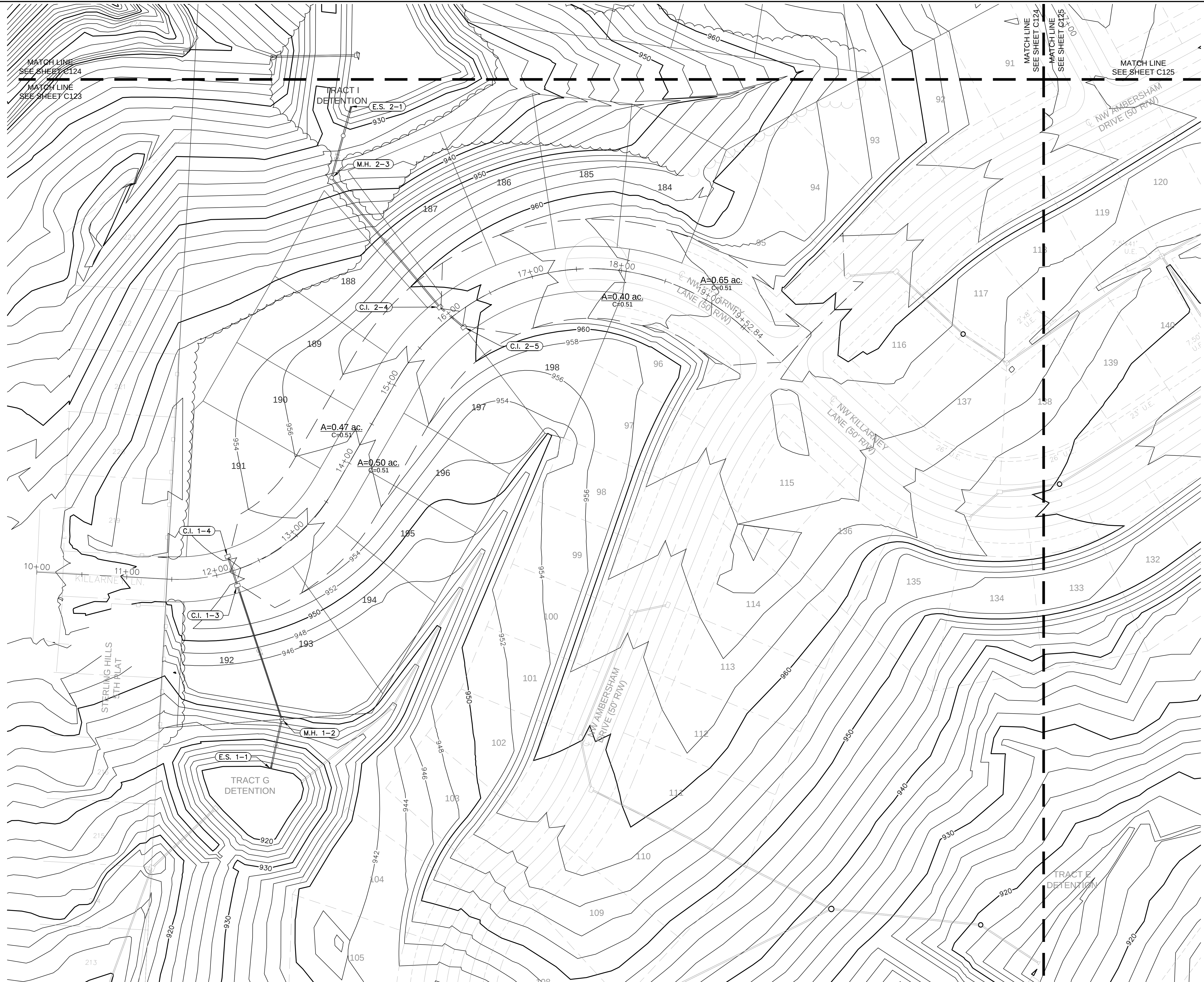
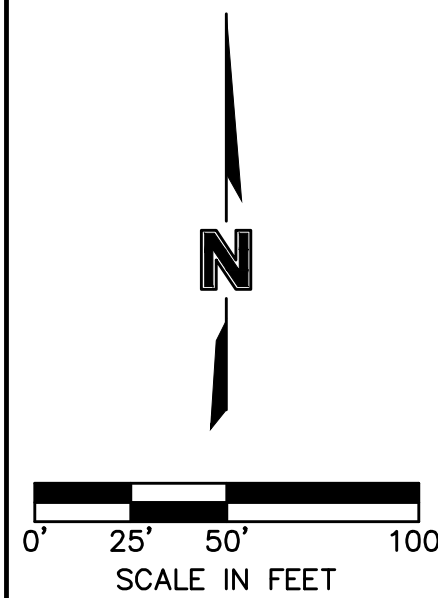
2. PLAT IS LOCATED IN ZONE X, "AREAS OUTSIDE THE 1-PERCENT ANNUAL CHANCE FLOODPLAINS, AREAS OF 1-PERCENT ANNUAL CHANCE SHEET FLOW FLOODING WHERE THE AVERAGE DEPTHS ARE LESS THAN 1 FOOT, AREAS OF 1-PERCENT ANNUAL CHANCE STREAM FLOODING WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1 SQUARE MILE, OR 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. 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.

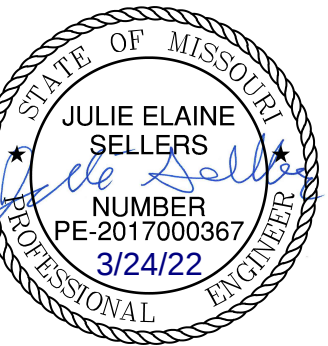
NOT ASBUILT



olson

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

TEL 816.361.1177

[illegible]

REVISIONS

DRAINAGE PLAN

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
 A/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 - Asbuilts\Sheets\GNCV\Street & Storm\C.DRN02_C181140.dwg
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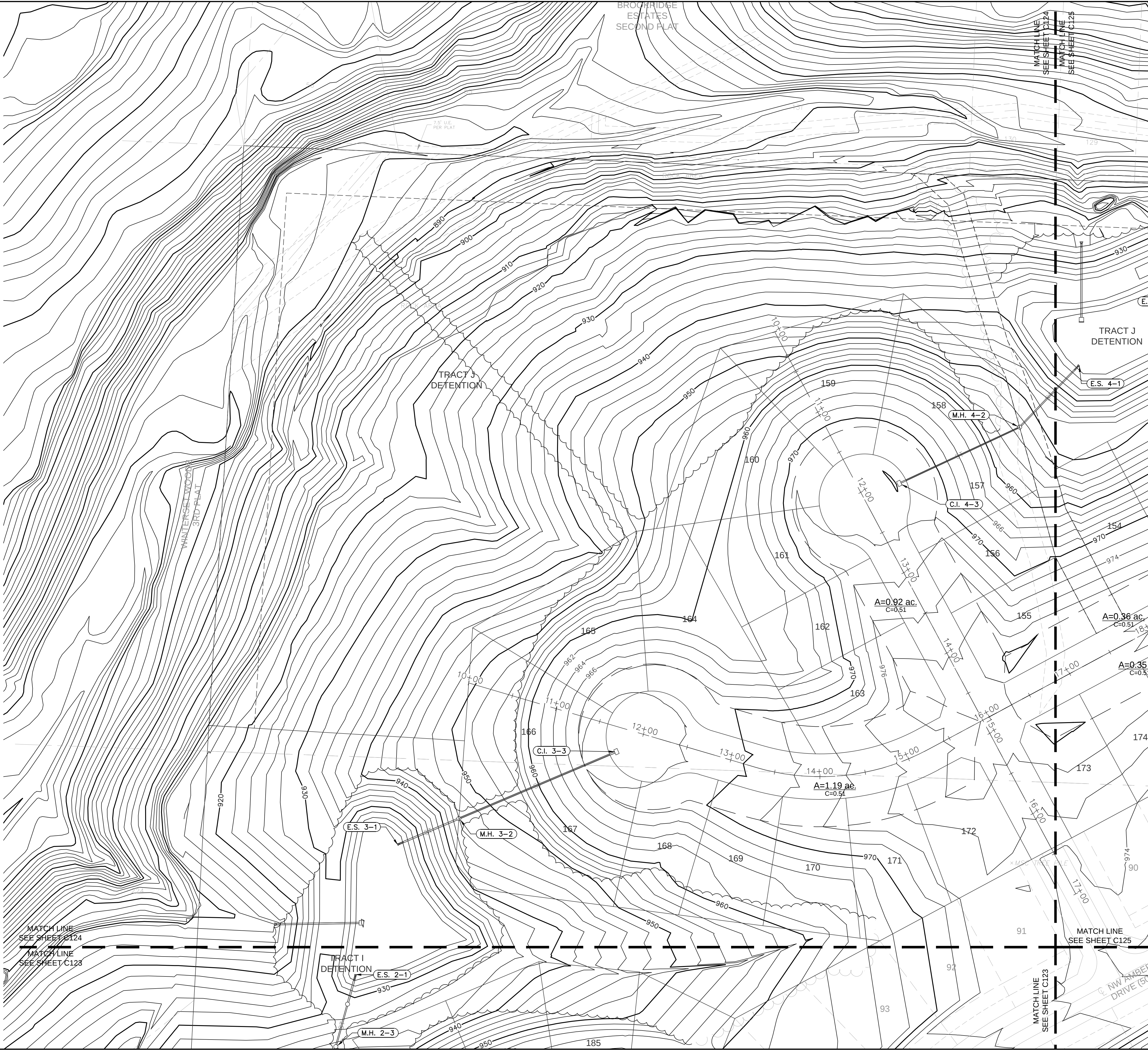
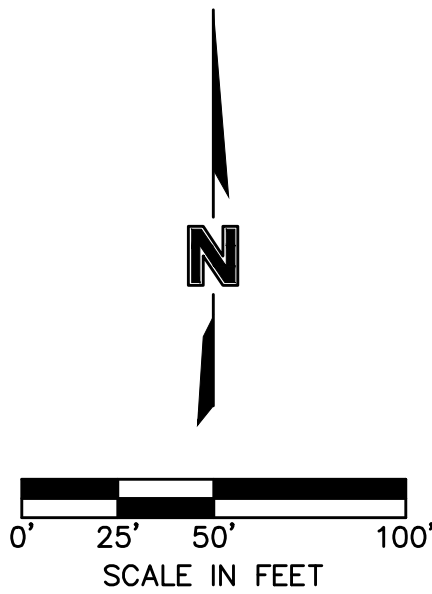


KEY MAP

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

- 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.
 - 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.
 - 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



BY

NO. REV.

DATE

REVISIONS DESCRIPTION

STATE OF MISSOURI

JULIE ELAINE SELLERS

NUMBER PE-2017000367

3/24/22

PROFESSIONAL ENGINEER

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

C124

olsson

NO. 00181140 of Authority of PE 001892
303 E. BURLINGAME ST. SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
WWW.OLSSON.COM

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: Mar 24, 2022 10:53am

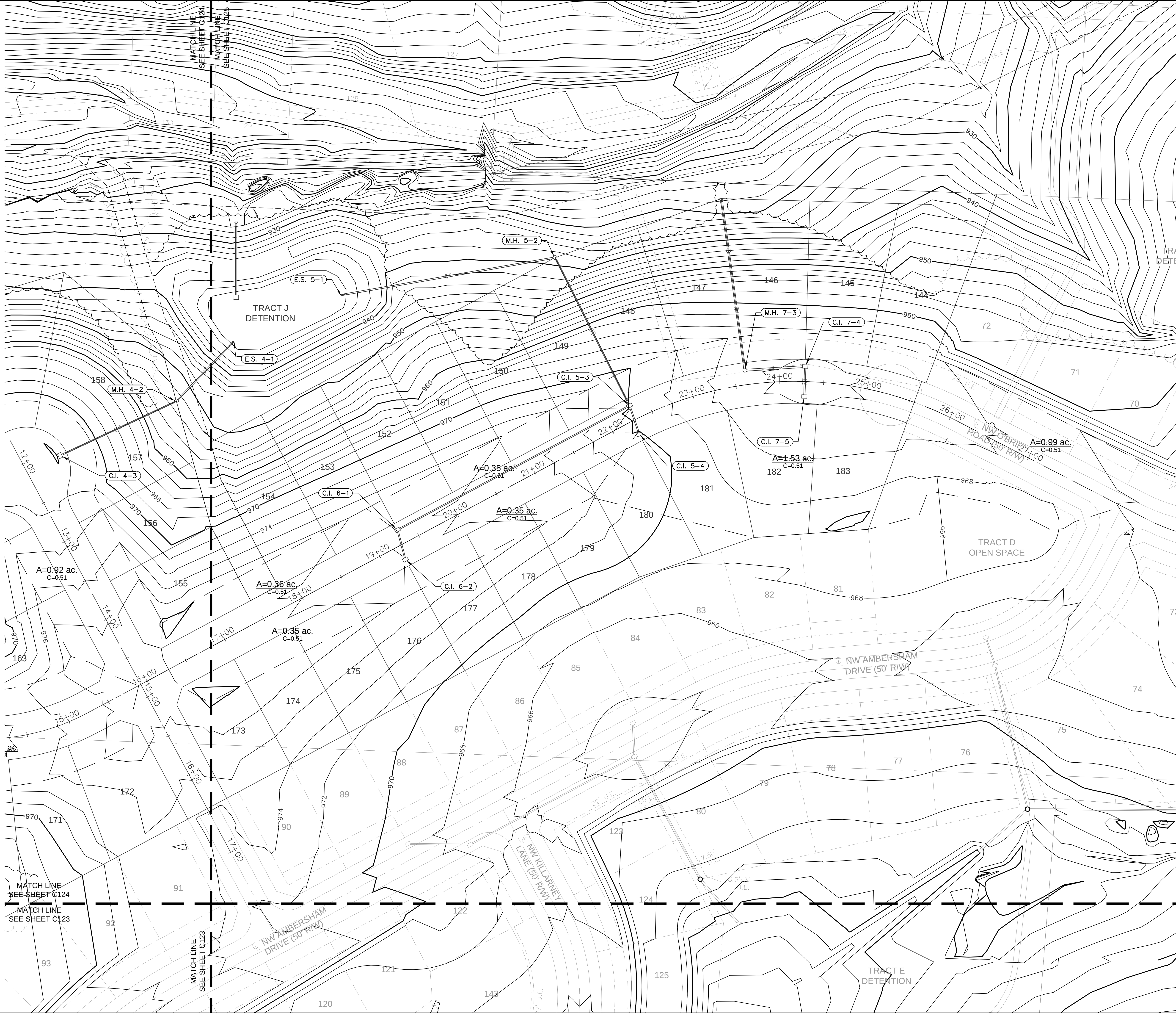
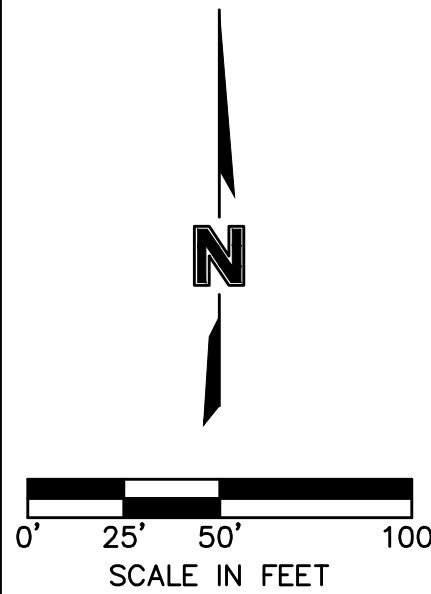


KEY MAP

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

- 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.
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 - 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



STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER PE-2017000367
2024/22
PROFESSIONAL ENGINEER

BY: _____
NO. REV. _____
DATE _____

DRAINAGE PLAN
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
C125

REVISIONS

2020

olsson

NO Conflicts of Interest at 03/24/22
300 E. BURNING TREE DRIVE, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.861.1177
WWW.OLSSON.COM

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	972.62
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	932.75
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	939.90
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	960.87

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	...

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	0.71
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

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 NO Certificate of Authority # 001592 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 TEL. 816.861.1177 www.olsson.com				olsson	
		NO. REV. DATE 2 3/16/2021		REVISIONS DESCRIPTION REVISED PER CONTRACTOR COMMENT	
10 YEAR DRAINAGE TABLES STREET & STORM SEWER PLANS		WOODSIDE RIDGE SECOND PLAT		REVISIONS	
2020					
SHEET C126					

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
3/24/22
PROFESSIONAL ENGINEER

[illegible]

10 YEAR DRAINAGE TABLES 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

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
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 j
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 j
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	930.03 j
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 j
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

100 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	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	...

Notes:

- Inlet capacity at sag location has been reduced by a clogging factor of 0.80, reducing theoretical capacity to 80% capacity, as required per APWA Section 5600. Both theoretical capacity and reduced capacity are shown.
- 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.

100 Year Return Frequency						
Inlet ID	Drainage Area	C	Tc	i	K	Peak Flow
	(ac)					
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

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. 2	DATE 3/16/2021	REVISIONS DESCRIPTION REVISED PER CONTRACTOR COMMENT	BY
	WOODSIDE RIDGE SECOND PLAT					
LEE'S SUMMIT, MO		2020	REVISIONS			



KEY MAP

Woodside Ridge Second Plat					
Minimum Building Opening Elevation					
Lot	Rear Left MBOE	Rear Right MBOE	Front Left MBOE	Front Right MBOE	As Built Plot Plan Required
144	940.10	945.66	965.31	966.10	N
145	933.24	940.10	964.68	965.31	N
146	928.29	933.24	965.74	964.68	N
147	933.18	928.29	968.29	965.74	N
148	939.46	933.18	970.92	968.29	N
149	945.79	939.46	973.86	970.92	N
150	951.84	945.79	976.29	973.86	N
151	951.38	951.84	977.05	976.29	Y
152	947.93	951.38	977.80	977.05	Y
153	949.37	947.93	978.55	977.80	Y
154	952.61	949.37	979.30	978.55	Y
155	969.65	979.35	977.69	980.14	N
156	957.40	969.65	974.34	977.69	N
157	950.17	957.40	971.11	974.34	Y
158	937.67	950.17	971.56	971.11	Y
159	946.44	937.67	972.01	971.56	N
160	951.59	946.44	972.45	972.01	N
161	957.15	955.18	973.50	972.45	N
162	967.15	957.15	977.04	973.50	N
163	973.63	967.15	979.36	977.04	N
164	948.53	955.18	968.89	973.93	N
165	945.07	948.53	967.94	968.89	N
166	947.09	945.07	968.19	967.94	Y
167	950.08	947.09	968.68	968.19	Y
168	954.90	950.08	970.38	968.68	Y
169	959.54	954.90	972.82	970.38	Y
170	965.95	959.54	975.03	972.82	Y
171	973.41	965.95	977.24	975.03	N
172	977.02	973.41	979.44	977.24	N
173	974.60	977.02	980.13	980.02	N
174	973.09	974.60	979.38	980.13	N
175	971.62	973.09	978.63	979.38	N
176	970.02	971.62	977.86	978.63	N
177	968.93	970.02	977.13	977.86	N
178	968.60	968.93	976.38	977.13	N
179	968.79	968.60	974.18	976.38	N
180	972.83	977.49	971.12	974.18	N
181	969.41	972.83	966.76	971.12	N
182	966.47	969.41	964.73	966.76	N
183	969.68	971.53	966.04	964.73	N
184	962.58	969.68	965.01	966.71	Y
185	968.19	962.58	963.43	965.01	Y
186	934.00	938.19	961.89	963.43	Y
187	936.92	934.00	960.56	961.89	Y
188	939.22	936.92	959.04	960.20	N
189	950.12	939.22	957.70	959.04	N
190	953.33	950.12	956.28	957.70	N
191	954.38	953.33	952.17	956.28	N
192	937.39	934.54	953.20	952.07	Y
193	941.50	937.39	954.35	952.07	Y
194	945.85	941.50	955.48	954.35	Y
195	948.71	945.85	956.74	955.48	Y
196	951.57	948.71	958.16	956.74	Y
197	965.82	970.06	960.53	958.16	Y
198	961.69	965.82	965.34	960.53	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.

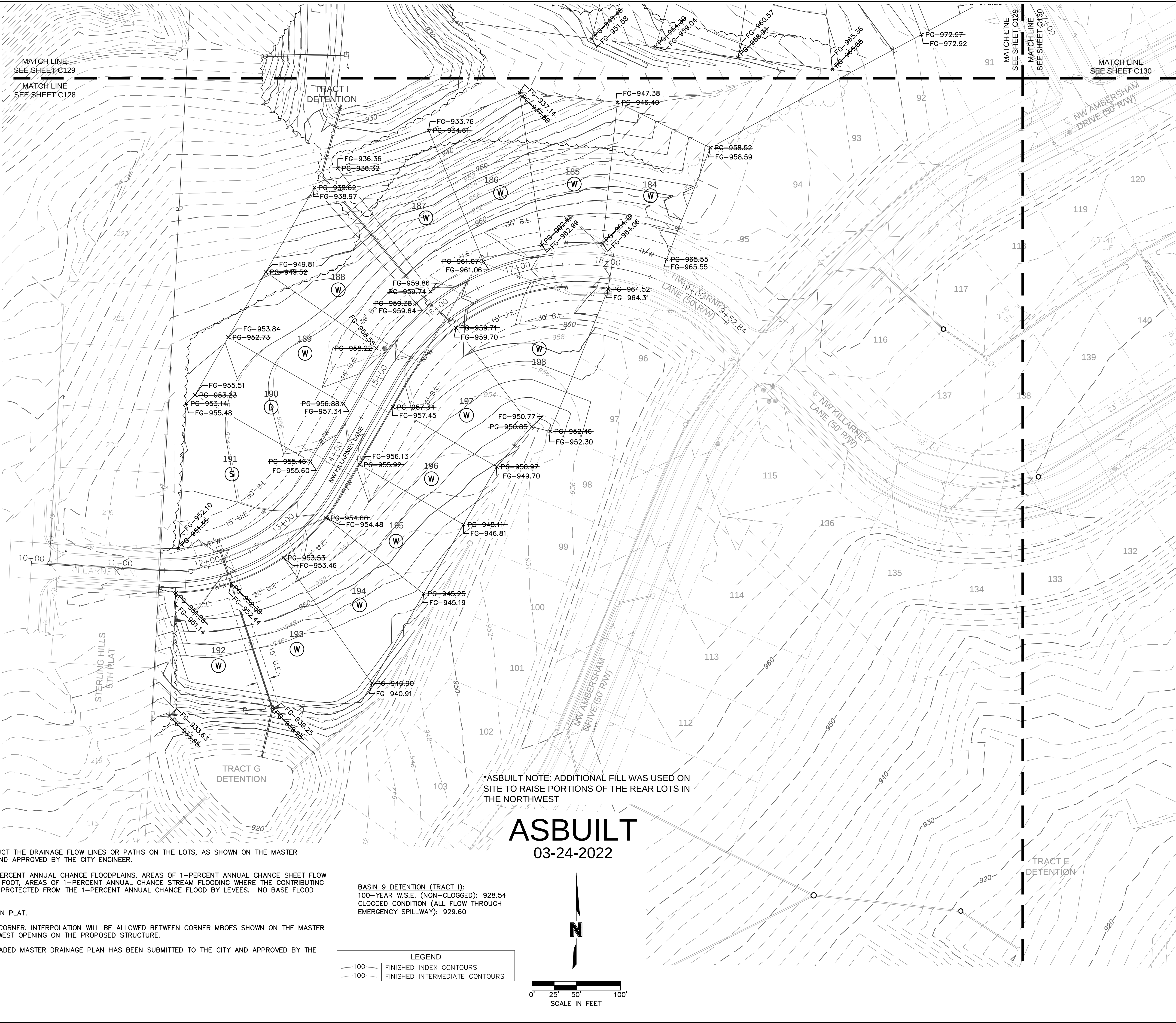
NOTES:

- 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 MBOES 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

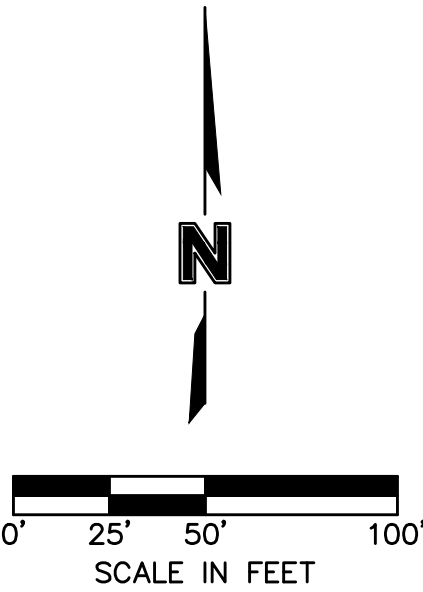


BASIN 9 DETENTION (TRACT I):
100-YEAR W.S.E. (NON-CLOGGED): 928.54
CLOGGED CONDITION (ALL FLOW THROUGH EMERGENCY SPILLWAY): 929.60

LEGEND	
100	FINISHED INDEX CONTOURS
100	FINISHED INTERMEDIATE CONTOURS

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

ASBUILT
03-24-2022



olsson

NOT A Sealer of Authority in MO 922
300 E. BROADWAY, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
www.olsson.com

STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
2024/22
PROFESSIONAL ENGINEER

BY
REVISIONS DESCRIPTION
NO. REV. DATE
1 7/10/2020 REVISED PER CITY COMMENTS

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
C128



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

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

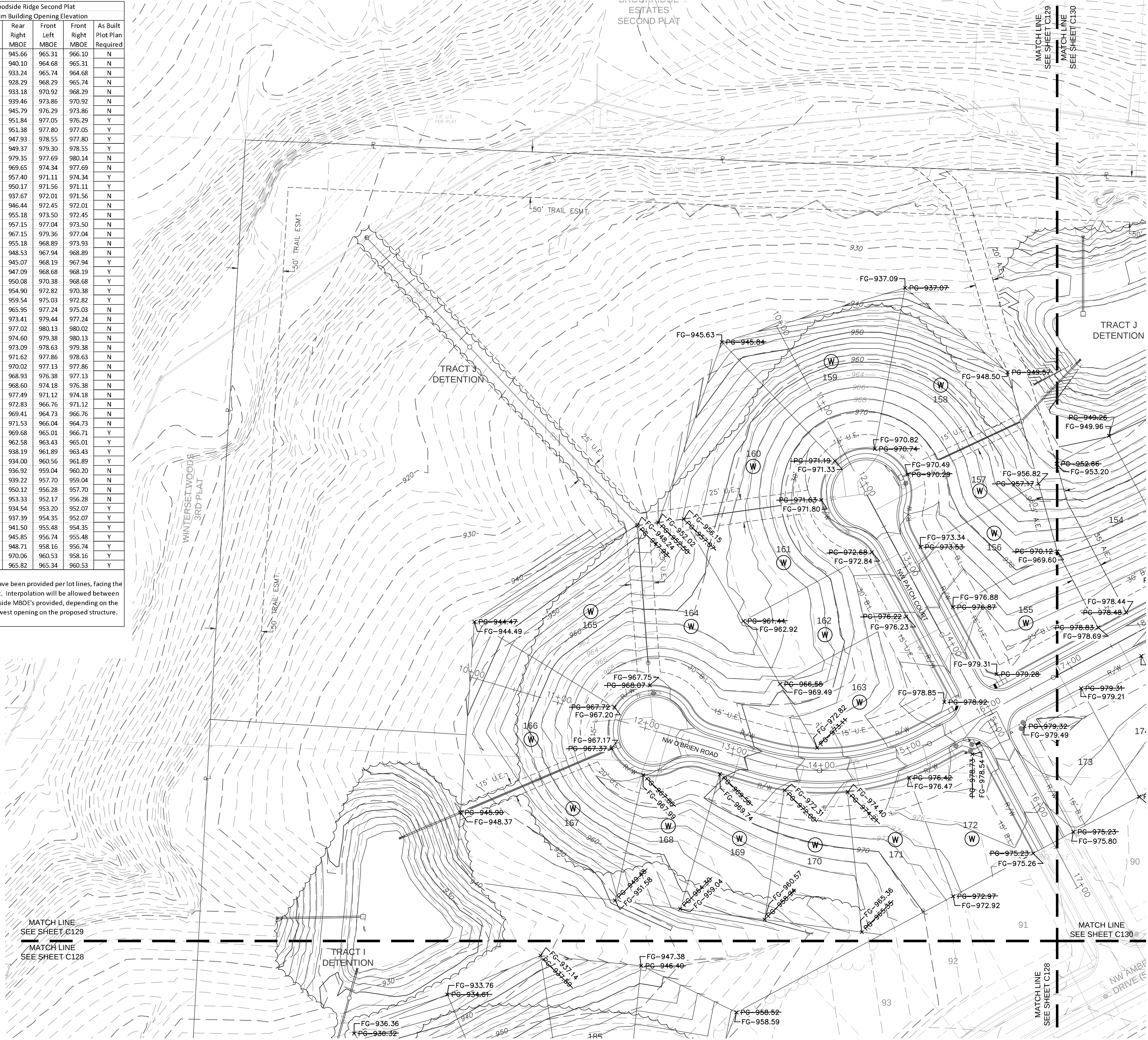
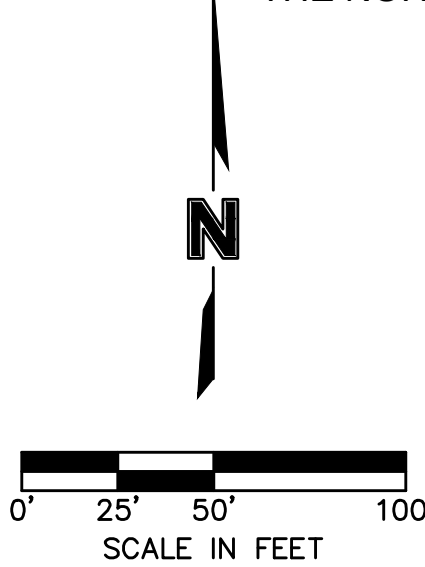
BASIN C1 DETENTION (TRACT J):
100-YEAR W.S.E. (NON-CLOGGED): 935.67
CLOGGED CONDITION (ALL FLOW THROUGH
EMERGENCY SPILLWAY): 936.70

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.

LEGEND	
	FINISHED INDEX CONTOURS
	FINISHED INTERMEDIATE CONTOURS

ASBUILT
03-24-2022

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STATE OF MISSOURI
JULIE ELAINE
SELLERS
NUMBER
PE-2017000367
3/24/22
PROFESSIONAL ENGINEER

[illegible]

MASTER DRAINAGE PLAN
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

MMIT 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
C129

USER: ssaylor

DWG: F:\2018\1001-1500\018-1140-C\40-Design\AutoCAD\Final Plans - Asbuilts\Sheets\GNCV\Street & Storm\C_MDR02_C181140.dwg

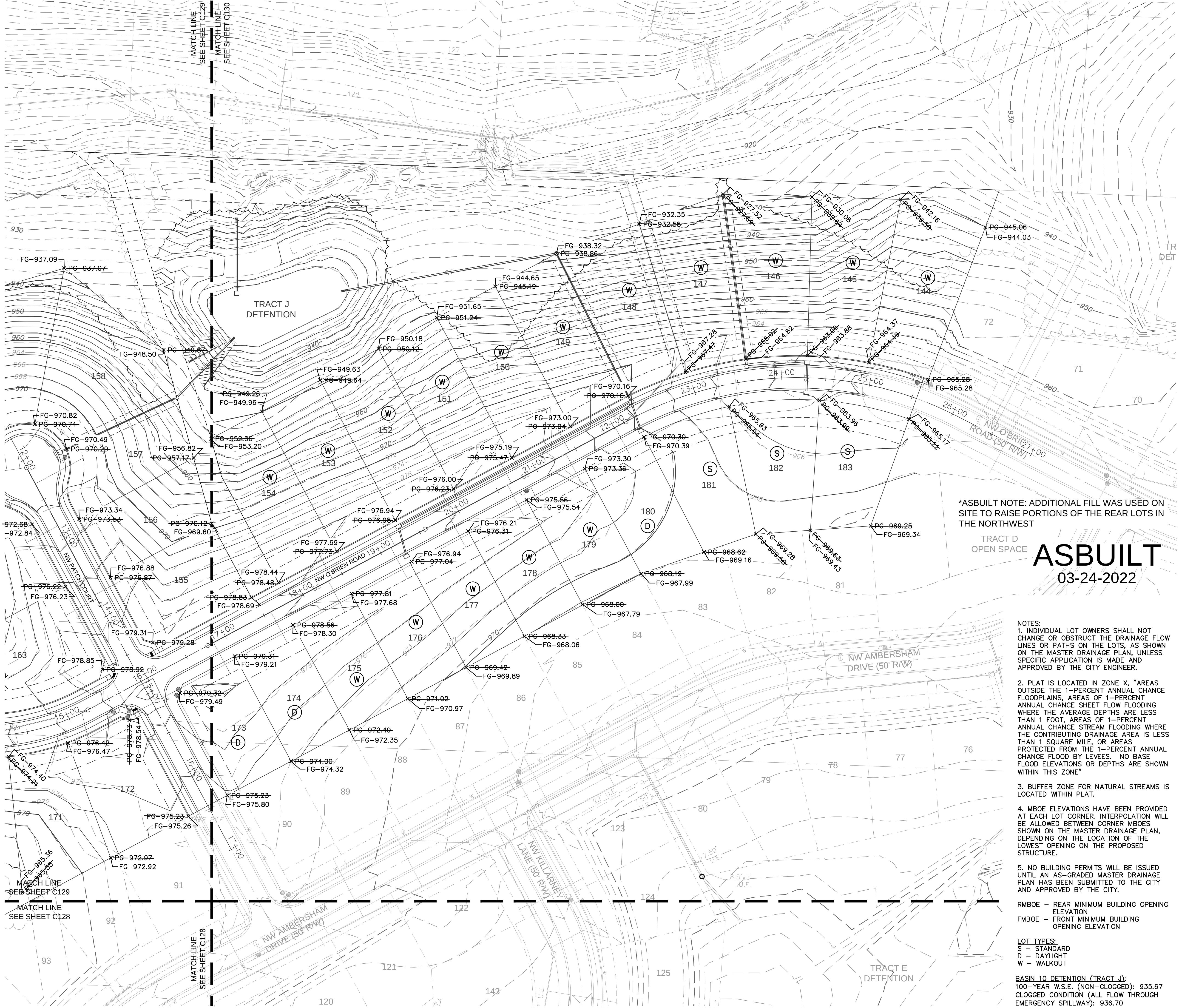
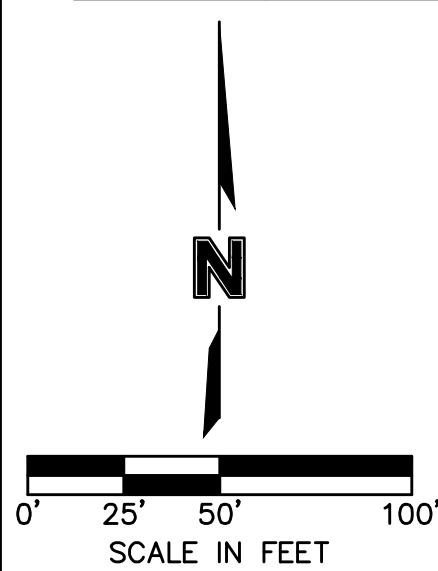


KEY MAP

Woodside Ridge Second Plat					
Minimum Building Opening Elevation					
Lot	Rear Left MBOE	Rear Right MBOE	Front Left MBOE	Front Right MBOE	As Built Plot Plan Required
144	940.10	945.66	965.31	966.10	N
145	933.24	940.10	964.68	965.31	N
146	928.29	933.24	965.74	964.68	N
147	933.18	928.29	968.29	965.74	N
148	939.46	933.18	970.92	968.29	N
149	945.79	939.46	973.86	970.92	N
150	951.84	945.79	976.29	973.86	N
151	951.38	951.84	977.05	976.29	Y
152	947.93	951.38	977.80	977.05	Y
153	949.37	947.93	978.55	977.80	Y
154	952.61	949.37	979.30	978.55	Y
155	969.65	979.35	977.69	980.14	N
156	957.40	969.65	974.34	977.69	N
157	950.17	957.40	971.11	974.34	Y
158	937.67	950.17	971.56	971.11	Y
159	946.44	937.67	972.01	971.56	N
160	951.59	946.44	972.45	972.01	N
161	957.15	951.59	973.50	972.45	N
162	967.15	957.15	977.04	973.50	N
163	973.63	967.15	979.36	977.04	N
164	948.53	955.18	968.89	973.93	N
165	945.07	948.53	967.94	968.89	N
166	947.09	945.07	968.19	967.94	Y
167	950.08	947.09	968.68	968.19	Y
168	954.90	950.08	970.38	968.68	Y
169	959.54	954.90	972.82	970.38	Y
170	965.95	959.54	975.03	972.82	Y
171	973.41	965.95	977.24	975.03	N
172	977.02	973.41	979.44	977.24	N
173	974.60	977.02	980.13	980.02	N
174	973.09	974.60	979.38	980.13	N
175	971.62	973.09	978.63	979.38	N
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LEGEND	
—100—	FINISHED INDEX CONTOURS
-100-	FINISHED INTERMEDIATE CONTOURS



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

ASBUILT

03-24-2022

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100-YEAR W.S.E. (NON-CLOGGED): 935.67
CLOGGED CONDITION (ALL FLOW THROUGH EMERGENCY SPILLWAY): 936.70

olsson

NO Conflicts of Interest at 031892
300 E. BURLINGAME STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.861.1177
www.olsson.com

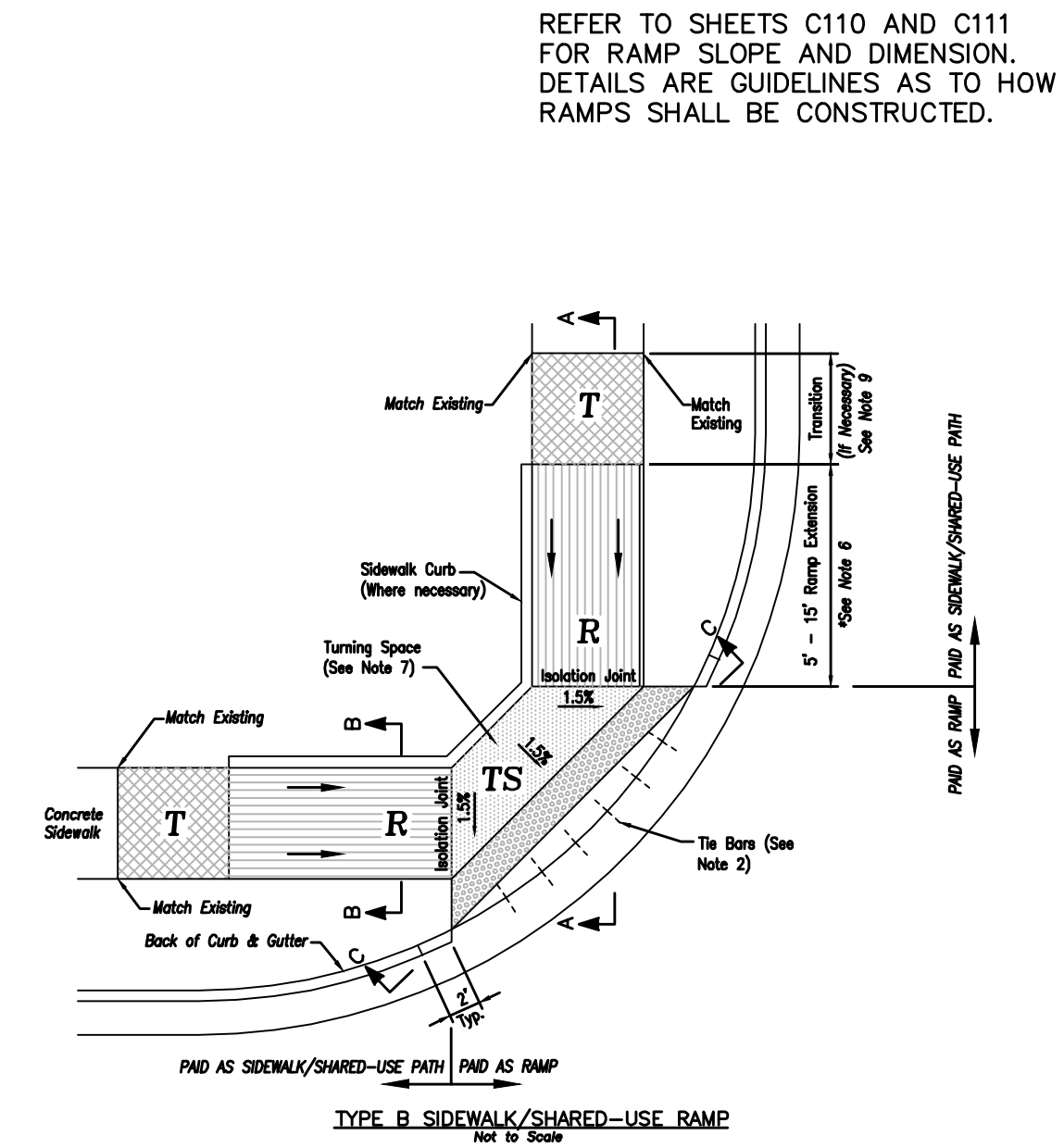
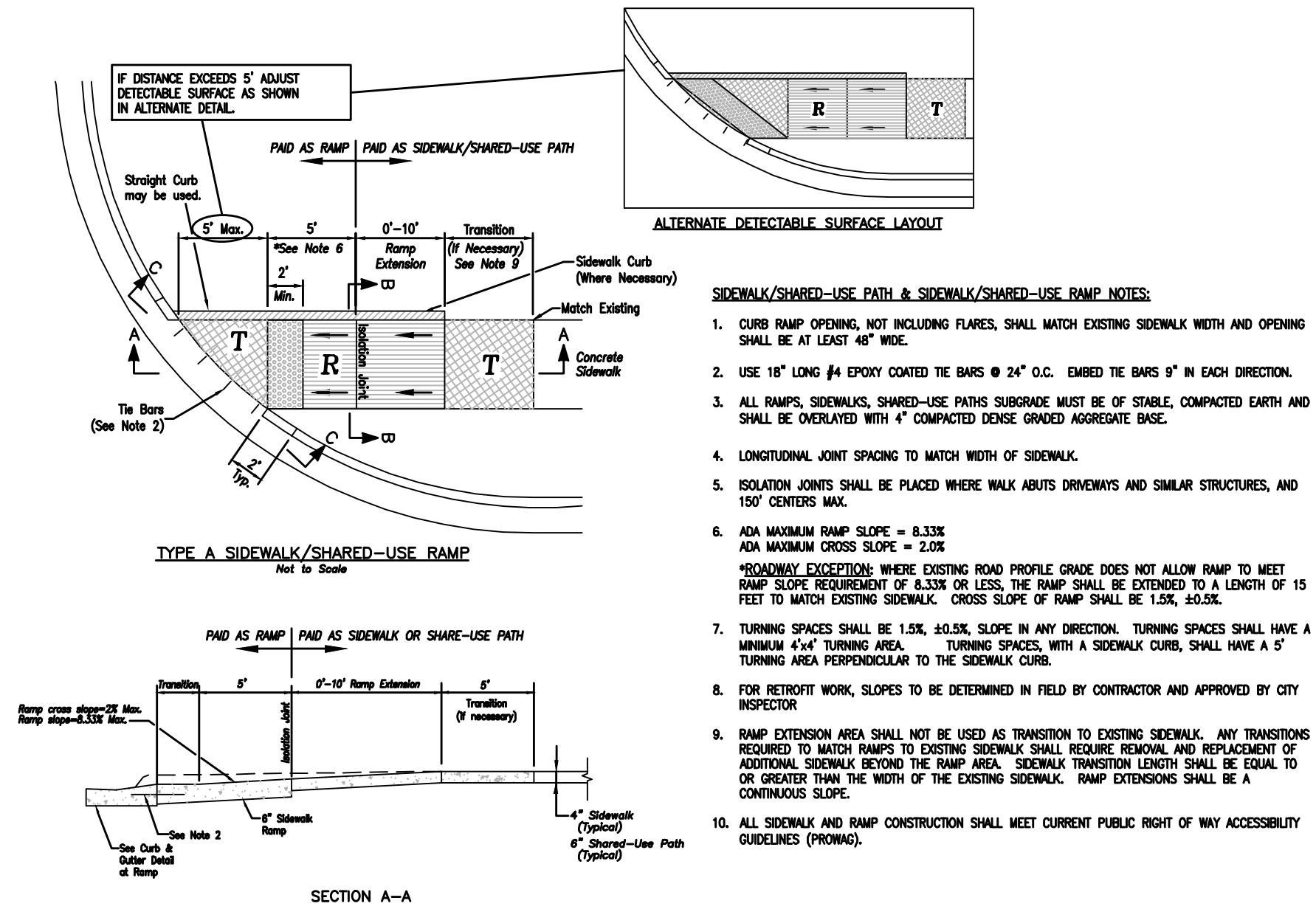
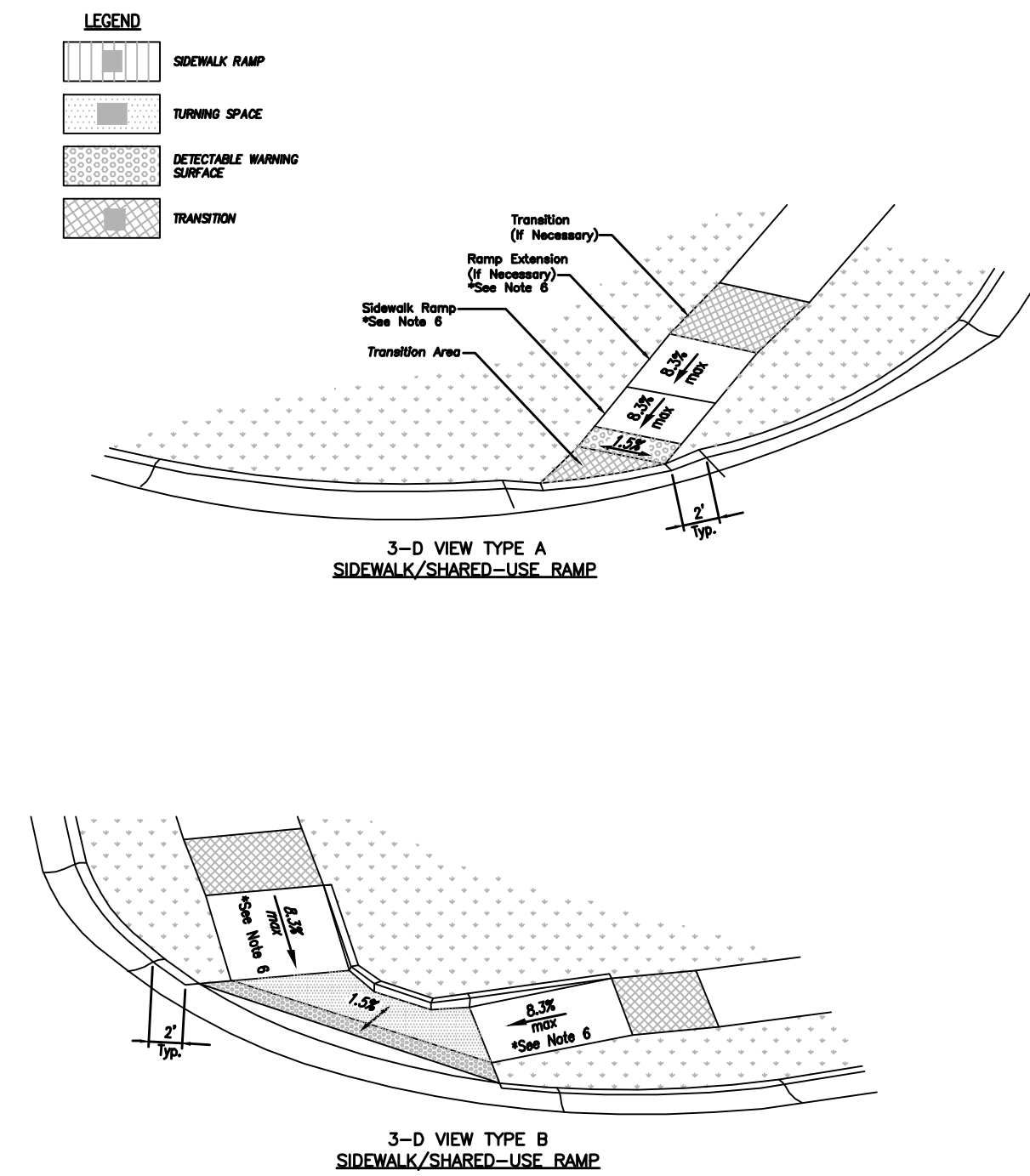
STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER
PE-2017000367
3/24/22
PROFESSIONAL ENGINEER

BY
REVISIONS DESCRIPTION
NO. REV. DATE
1 7/10/2020 REVISED PER CITY COMMENTS

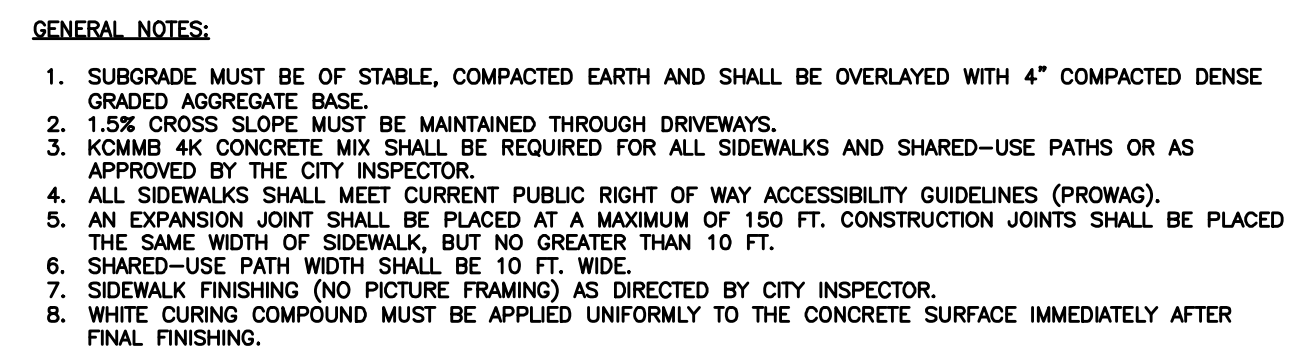
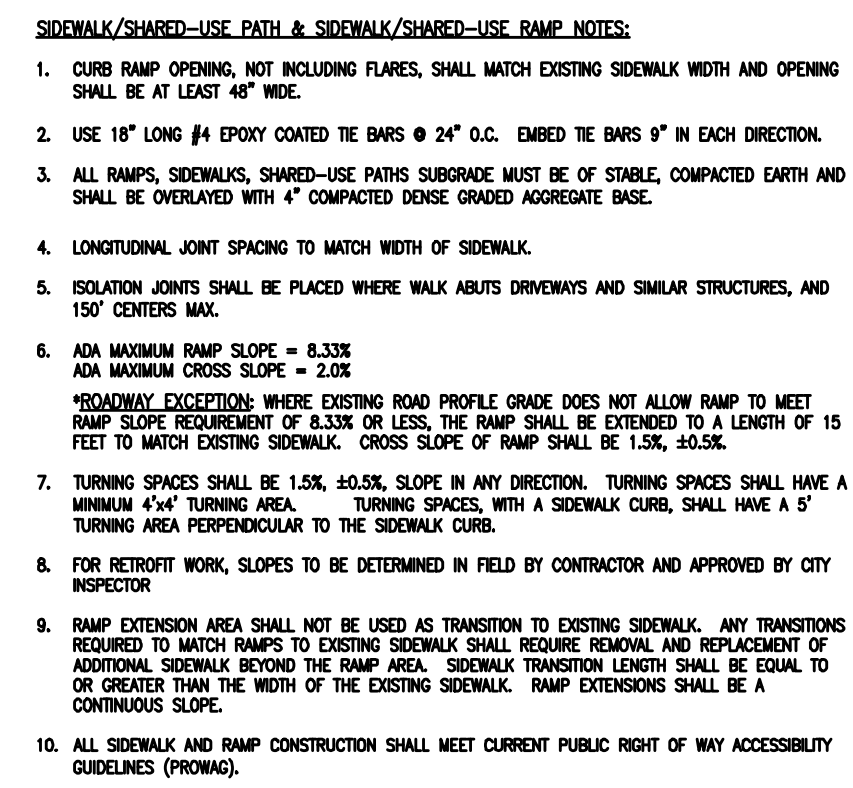
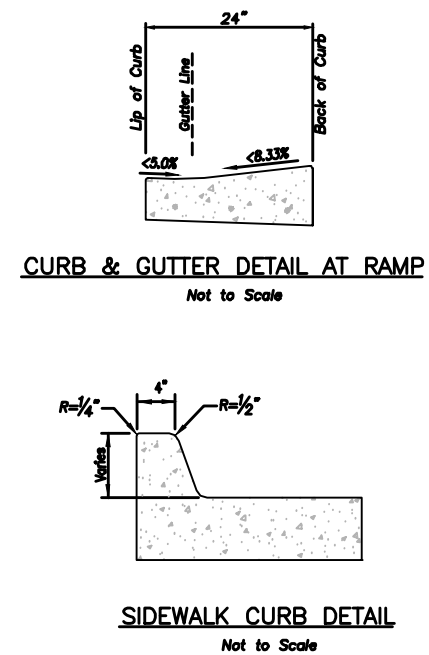
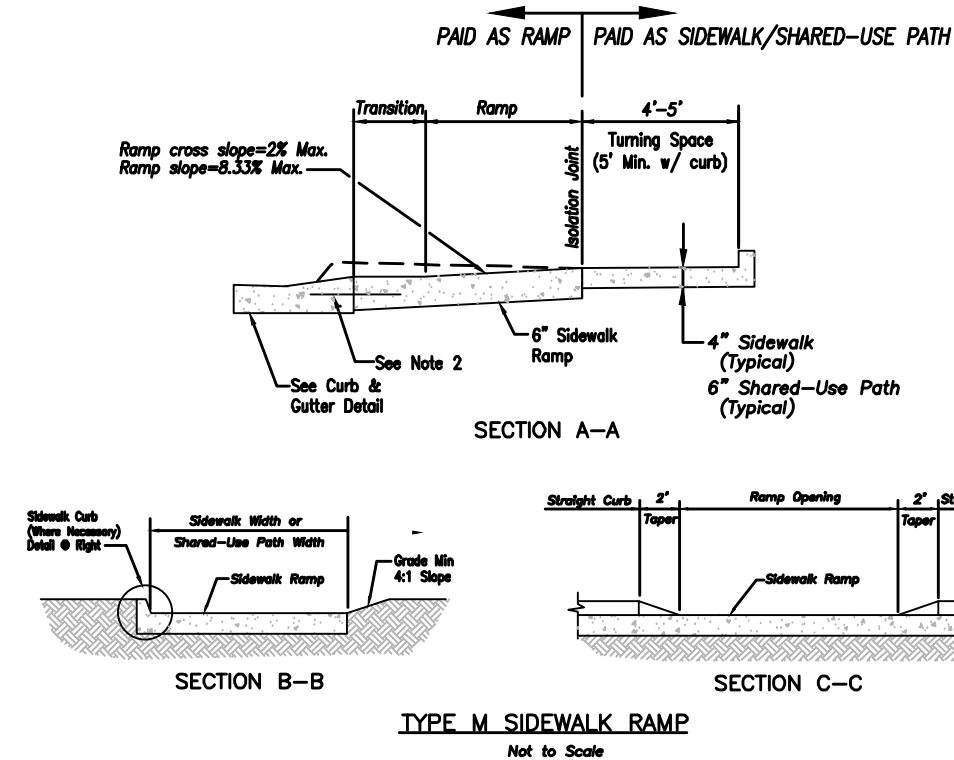
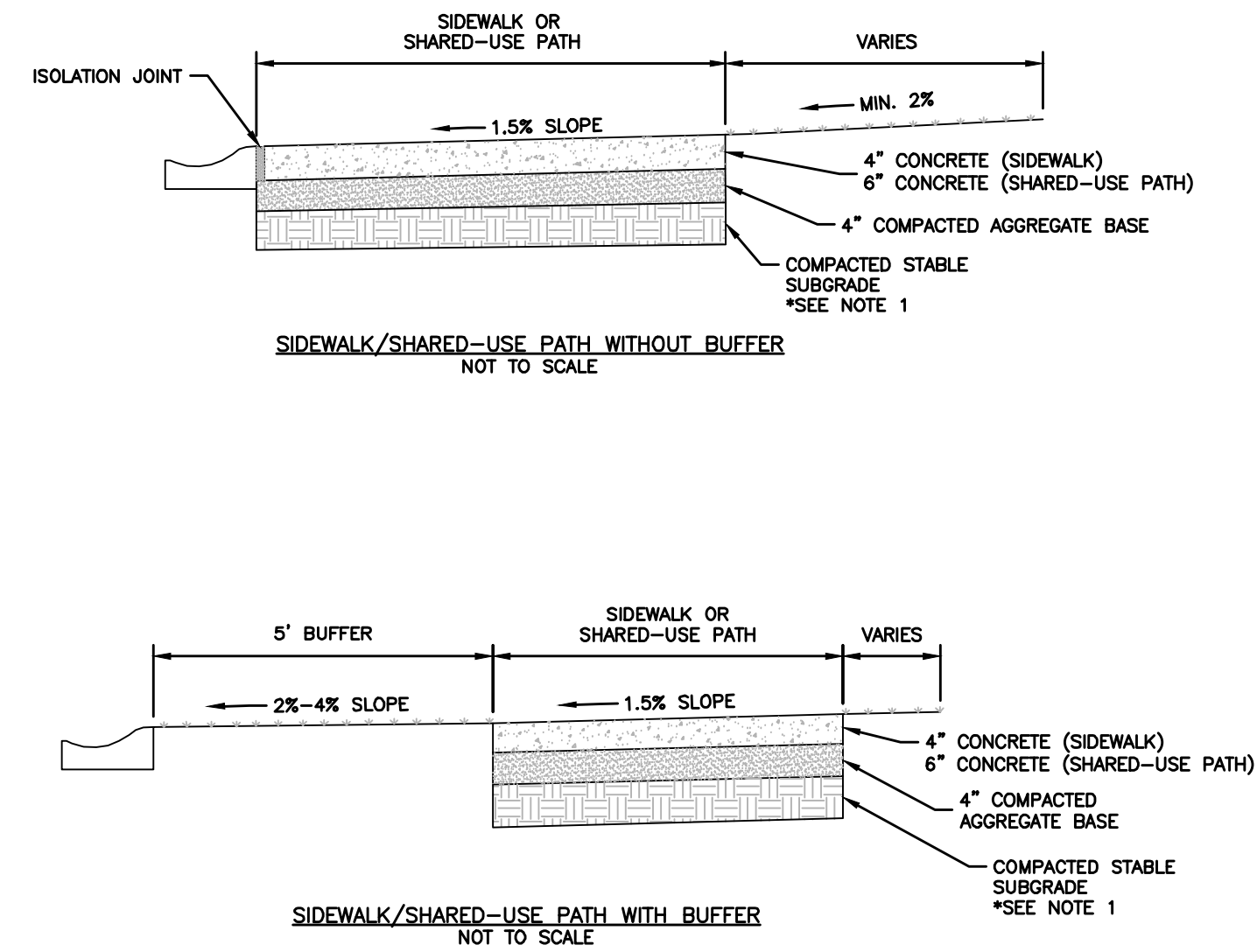
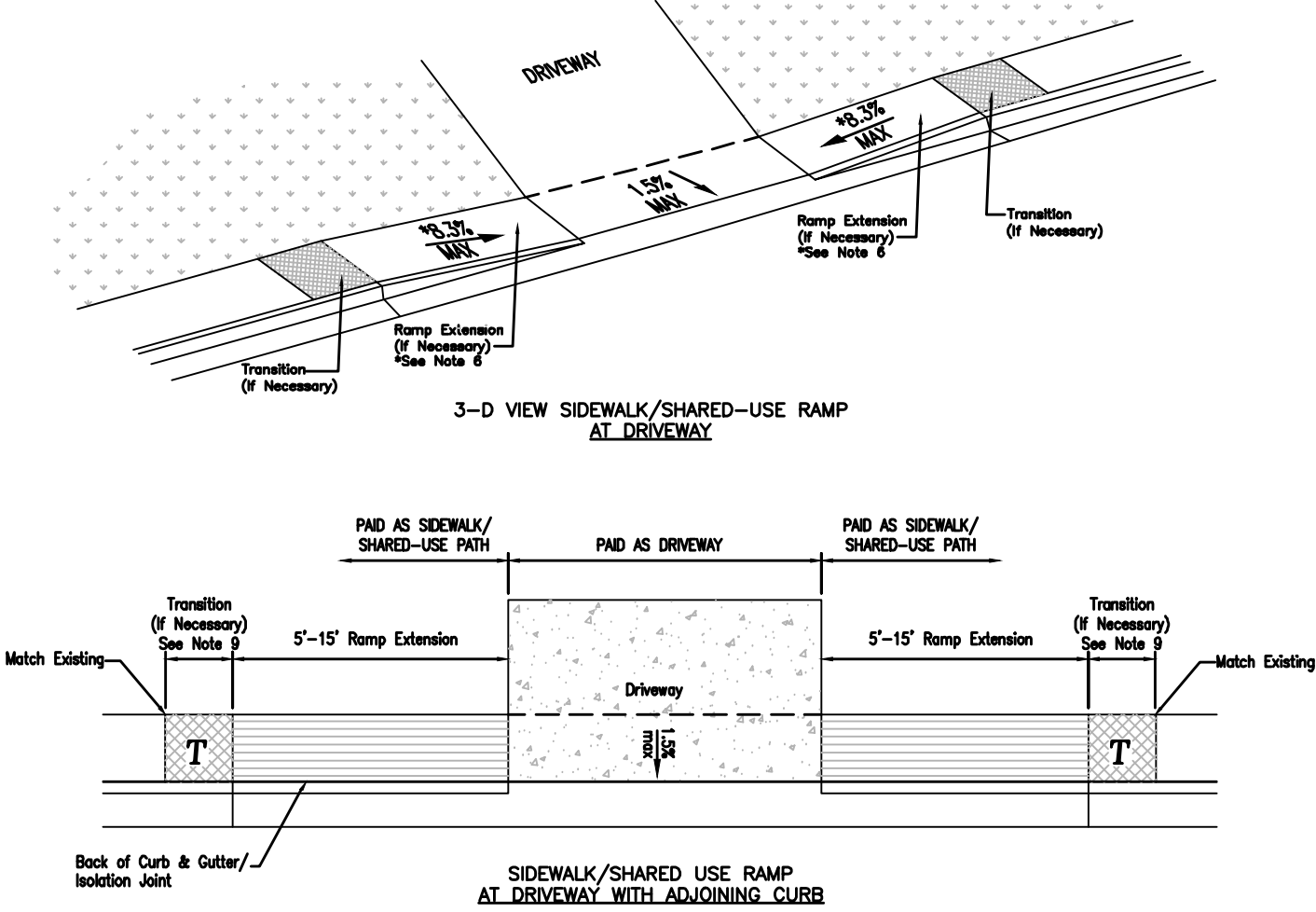
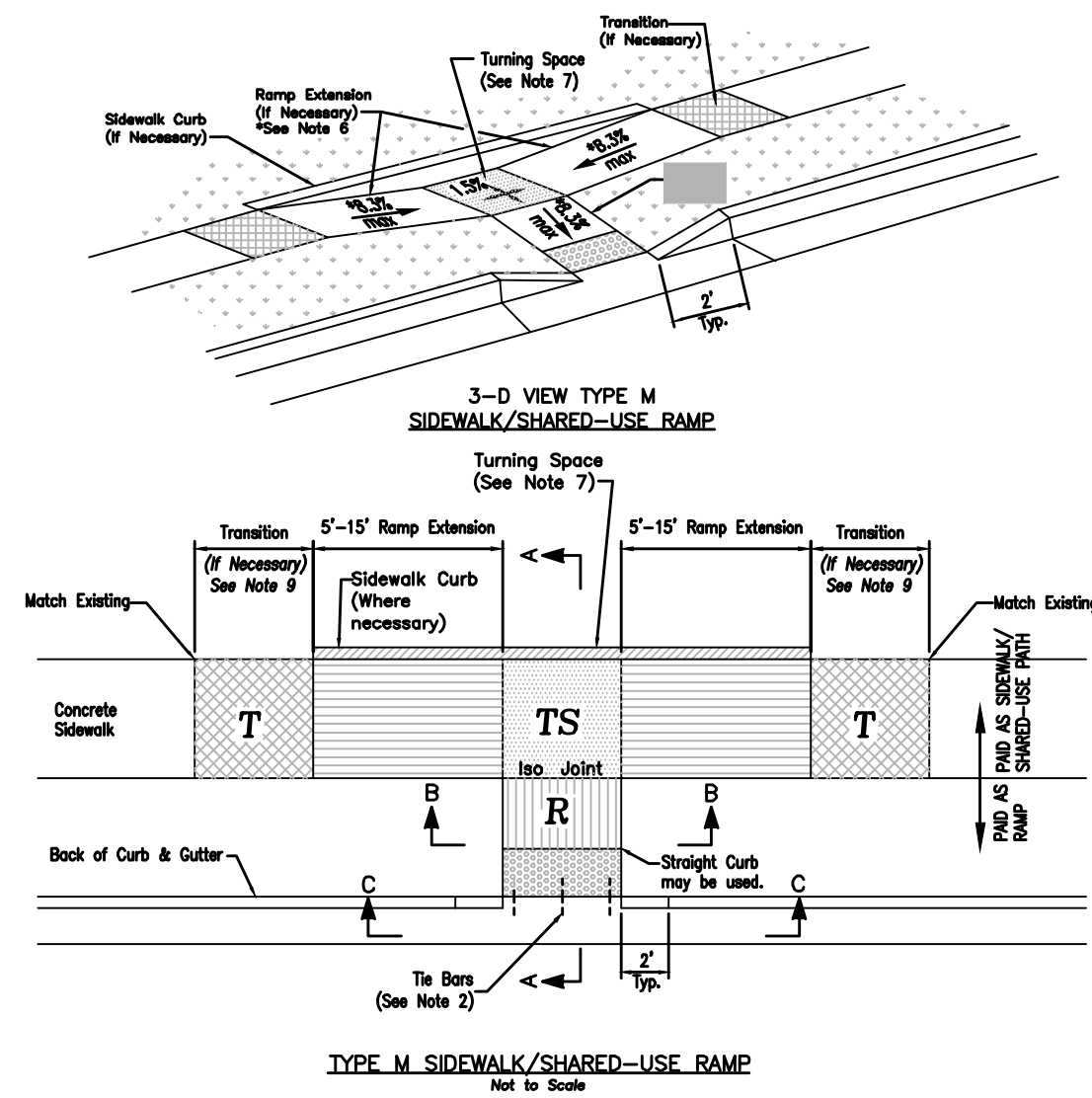
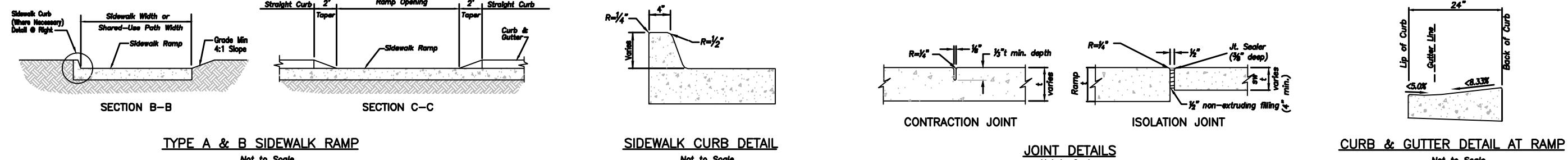
MASTER DRAINAGE PLAN
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SECOND PLAT
LEE'S SUMMIT, MO
2020

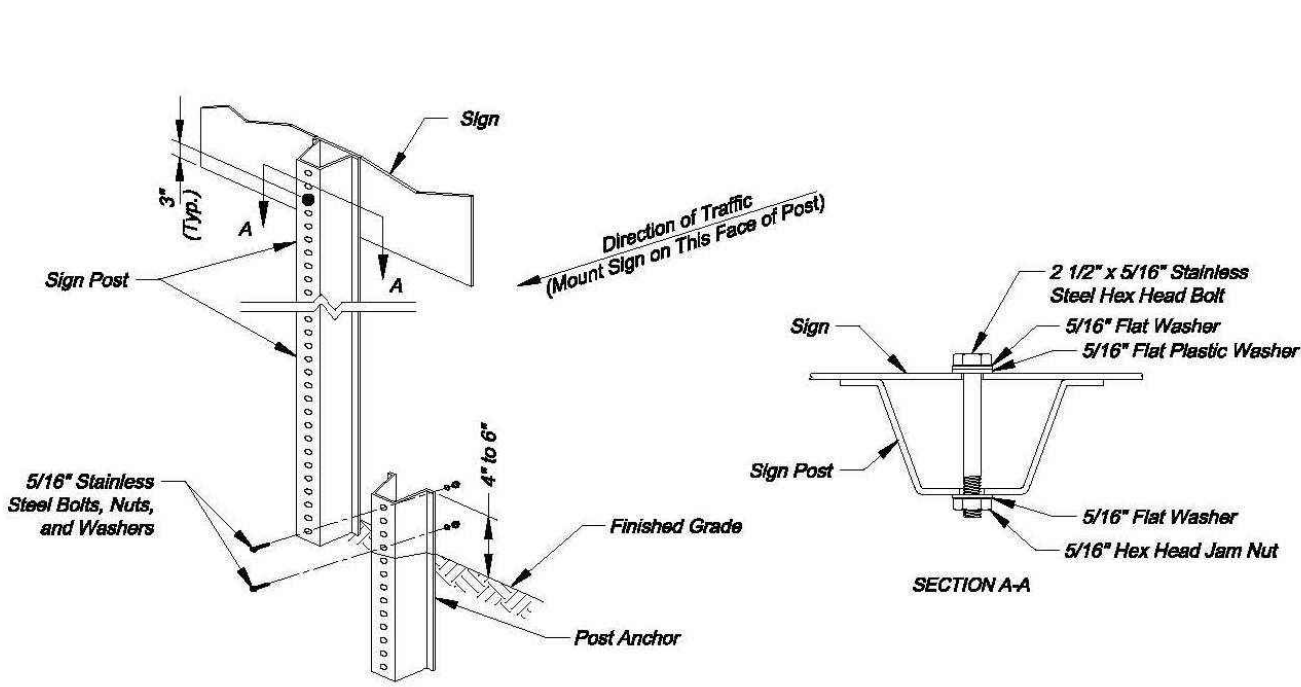
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checked by: S.M.S.
designed by: C.S.M.
QA/QC by: J.E.S.
project no.: C18-1140
date: 2020.07.10

SHEET
C130



NOT ASBUILT





U-STEEL POST DETAILS

- U-STEEL POST NOTES:**
1. Splice shall be positioned entirely between finished grade line and 16" above finished grade line. Only one splice will be allowed per post.
 2. U-Steel post shall be 3 to 6 ft., galvanized according to ASTM A123.
 3. U-Steel post can be used for installation of signs with an area of less than 2.5 square feet.
 4. All posts shall be embedded a minimum of 3 feet.

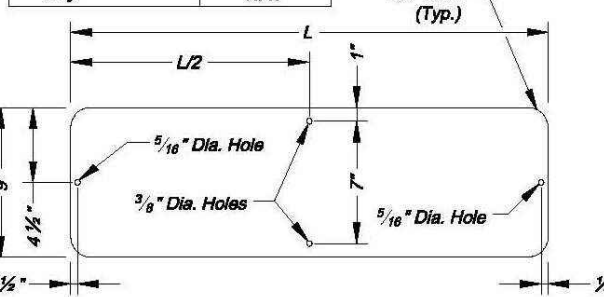


STRAP TYPE SIGN SUPPORT DETAILS

- METAL POLE SIGN MOUNTING NOTES:**
1. Signs on metal poles shall be attached with two brackets and stainless steel bands.
 2. Holes in sign for attachment to the mounting brackets shall be offset a minimum of 2 inches from the edge of the sign.
 3. Holes in sign shall be located such that the sign is level.
 4. All strap, bracket, and seal materials should be Type 201 stainless steel.

STANDARD ABBREVIATION LISTS

Named Streets		Numbered Streets	
Avenue	AVE	First	ST
Boulevard	BLVD	Second	ND
Circle	CIR	Third	RD
Creek	CR	Fourth to Tenth	TH
Court	CT		
Crossing	XING		
Drive	DR		
Highway	HWY		
Lane	LN		
Parkway	PKWY		
Piece	PL		
Road	RD		
Street	ST		
Terrace	TER		
Trail	TRL		
Way	WAY		



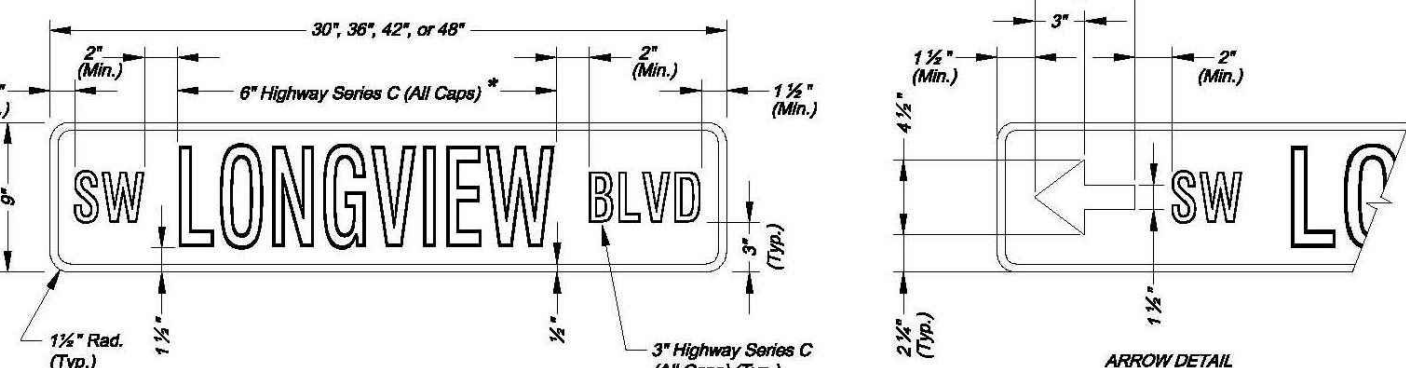
STREET NAME SIGN BLANK DETAILS

For Mounting on Square Steel Posts

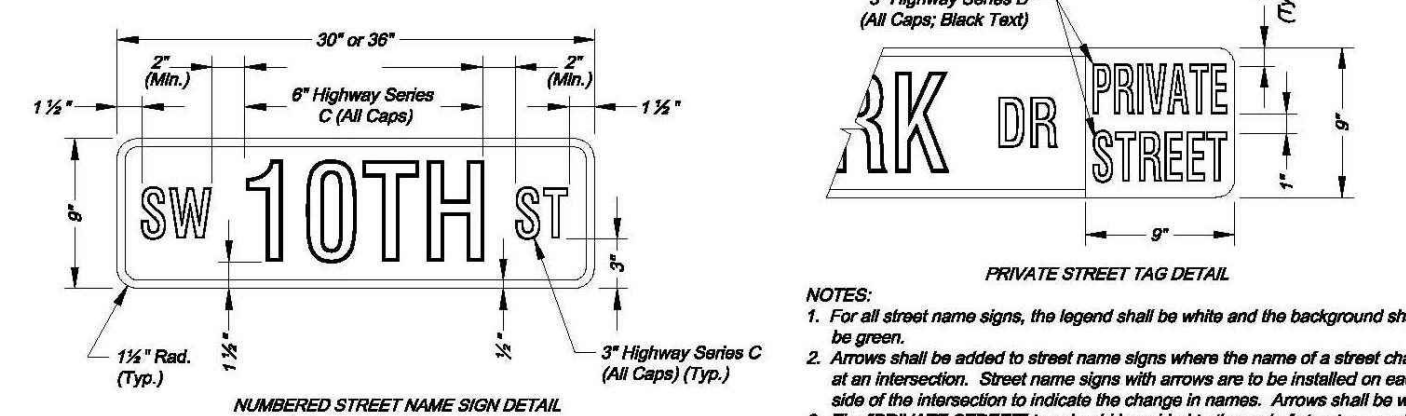
STREET NAME SIGN QUANTITIES

Sign Designation	Sign Size	Sign Area (Sq. Ft.)	Number	Quantity (Sq. Ft.)
D3-1 (SP-1)	8" x 8"	Sq. Ft.	1	1
D3-1 (SP-2)	8" x 8"	Sq. Ft.	1	1
D3-1 (SP-3)	8" x 8"	Sq. Ft.	1	1
D3-1 (SP-4)	8" x 8"	Sq. Ft.	1	1
D3-1 (SP-5)	8" x 8"	Sq. Ft.	1	1
D3-1 (SP-6)	8" x 8"	Sq. Ft.	1	1

PROJECT SIGN DETAILS



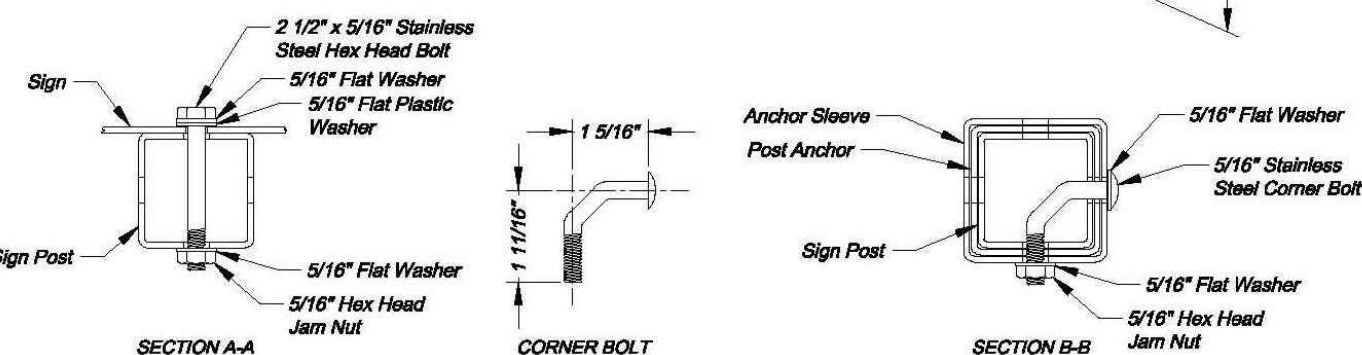
* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.



STREET NAME SIGN FACE DETAILS

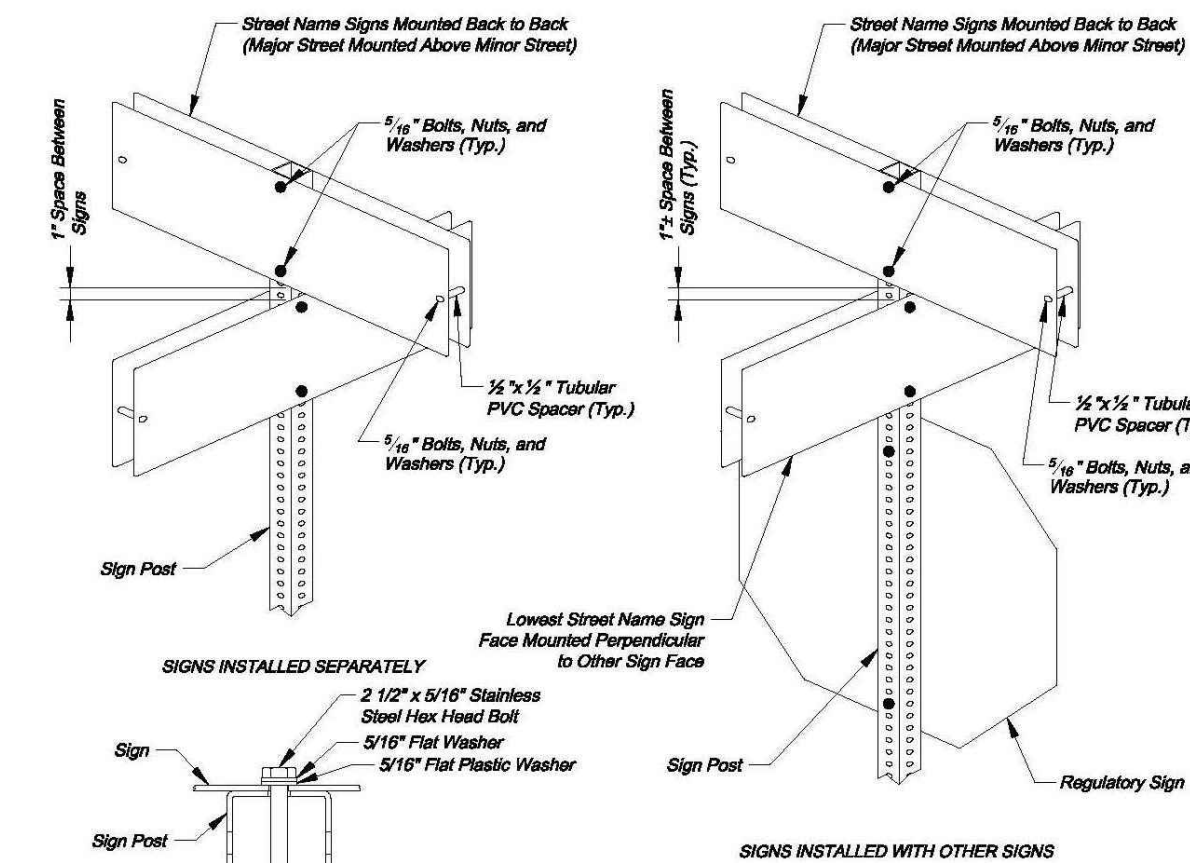
- PERMANENT SIGNING GENERAL NOTES:**
1. All signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
 2. The Contractor is responsible for avoiding any and all utilities when installing sign posts, whether the utility is indicated on the plans or not.
 3. All workmanship and materials shall be subject to the inspection and approval of the Public Works Department of the City of Lee's Summit.
 4. The Contractor shall submit the location of all sign posts to be installed. The City Inspector shall inspect the staking prior to installation.
 5. Signs shown to be installed on the side of metal poles shall be mounted with stainless steel straps or wing brackets as detailed. No signs are to be installed on wood poles. See Traffic Signal Standard Drawings for the installation of signs on mast arms.
 6. All post mounted signs shall be installed with breakaway anchors according to the Standard Drawings.
 7. All existing signs will be used in place during construction and protected from damage unless otherwise indicated in the plans. If the Contractor damages any existing sign or posts during construction, the Contractor will be required to replace the damaged materials with new signs or posts of the same type and size at the Contractor's expense. The Contractor shall be responsible for removing and storing any signs that are to be reinstalled on the project. All equipment shall be maintained in good condition.
 8. Existing permanent signs and posts removed by the Contractor for construction purposes which are not to be reinstalled shall be delivered to the City's Public Works Maintenance Facility (1671 SE Hamblen Road). The Contractor shall be responsible for removing and storing equipment in good condition and is fully responsible for the equipment until it is delivered.
 9. All Stop, Yield, or street name signs shall be maintained in a conspicuous location for the driving public. All Stop and Yield signs removed for construction purposes can be temporarily erected in reflectorized drums (no less than 7 feet above the pavement surface) until they can be reinstalled. Any temporary Stop or Yield sign installation to be left in place overnight will require prior approval from the City Inspector.

- SQUARE STEEL POST INSTALLATION SEQUENCE:**
1. Sign post anchor driven partially into the ground using a drive cap with a sledge or power equipment.
 2. Anchor sleeve slipped over anchor and drive into the ground together with the sign post anchor.
 3. Insert sign post into the post anchor and bolt in place.

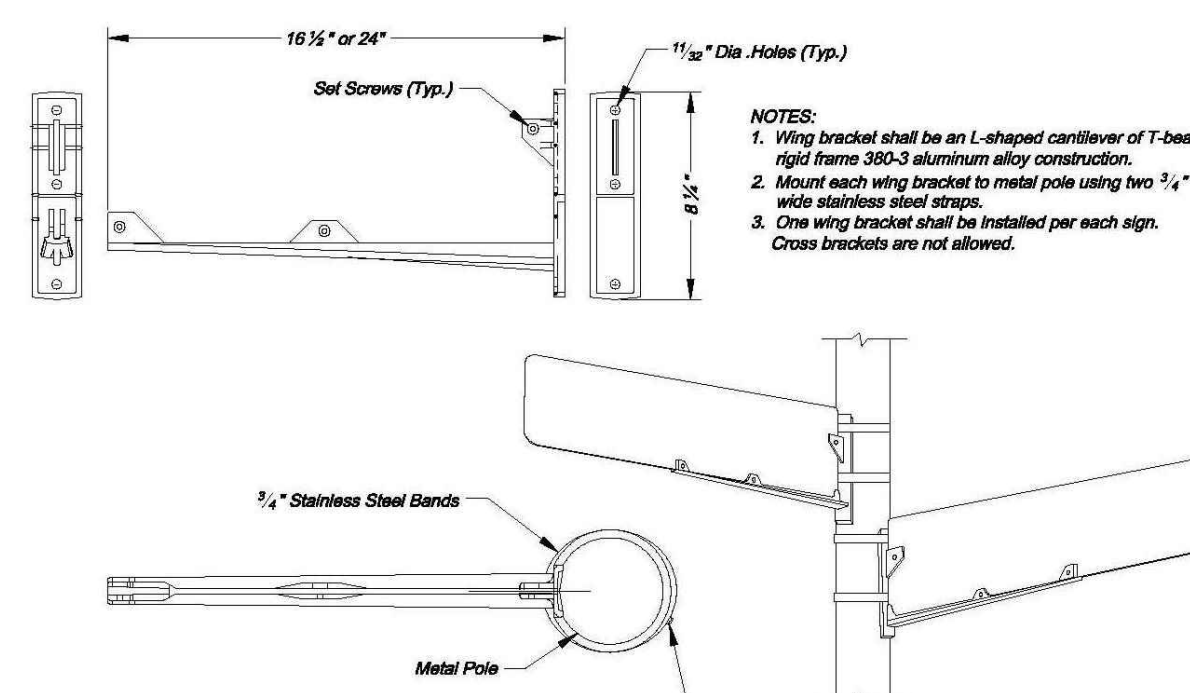


SQUARE STEEL POST DETAILS

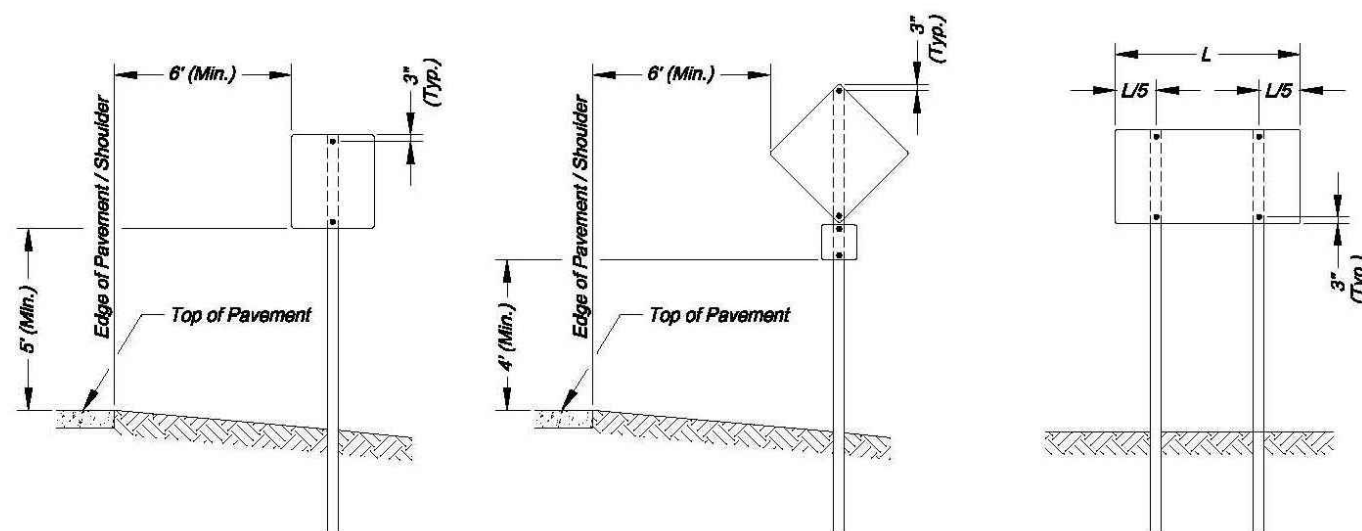
- SQUARE STEEL POST NOTES:**
1. Square steel sign posts and break-away anchor shall consist of the following materials:
Sign Post - 14 Ga. 2" x 2" Square Steel Post
Post Anchor - 12 Ga. 2 1/2" x 2 1/2" x 36" Square Steel Post
Anchor Sleeve - 12 Ga. 2 1/2" x 2 1/2" x 18" Square Steel Post
 2. 14 Gauge posts must meet a certified minimum yield strength of 80,000 psi.
 3. In all installations the first hole above the finished grade line on the sign post, anchor, and anchor sleeve must be in line for the insertion of the corner bolt.
 4. The maximum area for one sign post is 9.0 square feet. A sign or combination of signs with an area greater than 9.0 square feet will require two posts. Also, signs with a width greater than 36" (not including 36" x 36" diamond shaped signs) will require two posts.



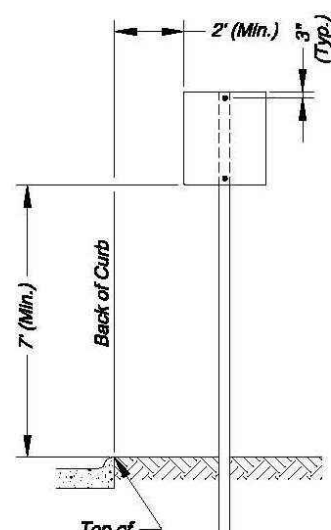
SQUARE STEEL POST MOUNTING DETAILS



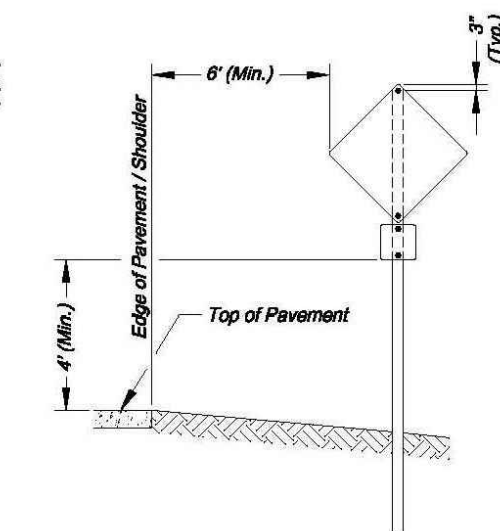
WING BRACKET MOUNTING DETAILS



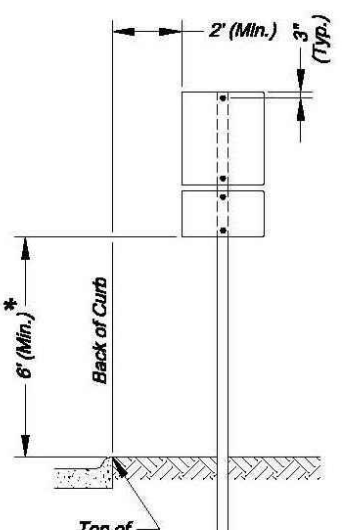
SIGN INSTALLATION FOR NON-CURBED STREET



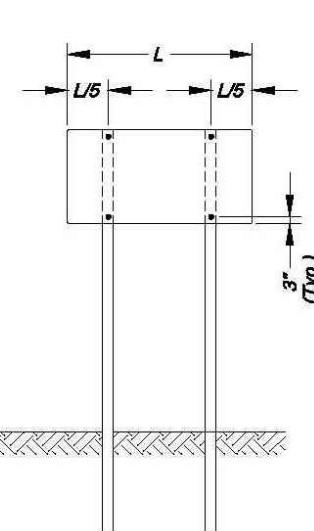
SIGN INSTALLATION FOR CURBED STREET



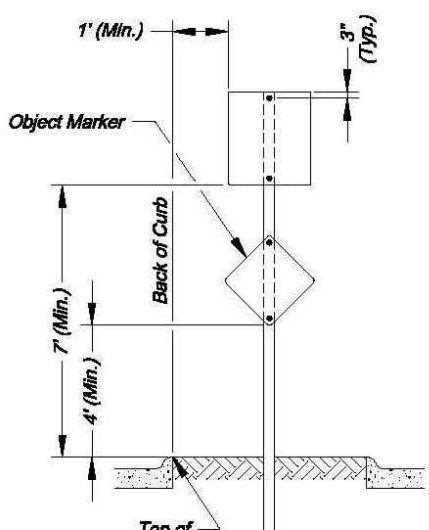
SIGN INSTALLATION WITH AUXILIARY SIGN FOR NON-CURBED STREET



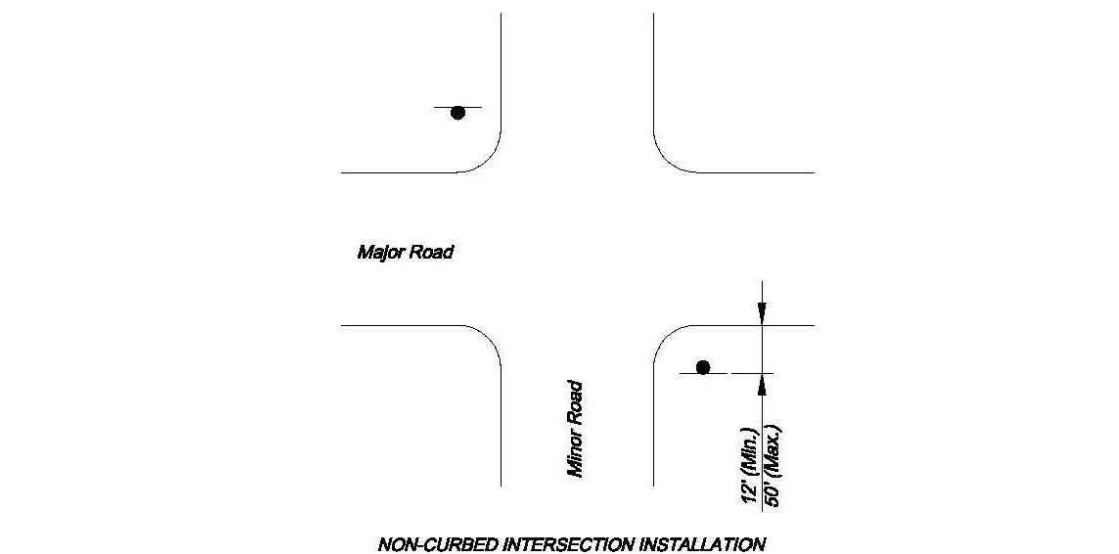
SIGN INSTALLATION WITH AUXILIARY SIGN FOR CURBED STREET



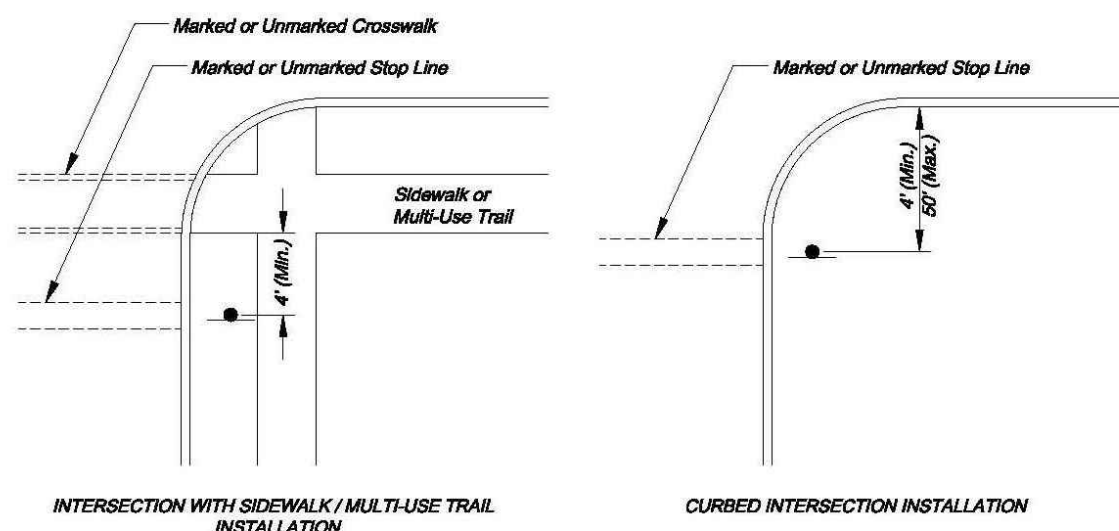
SIGN INSTALLATION WITH TWO SIGN POSTS



SIGN INSTALLATION FOR RAISED MEDIAN

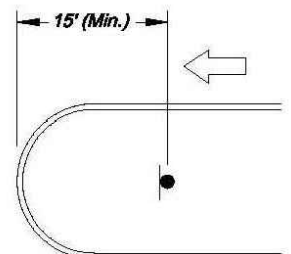


NON-CURBED INTERSECTION INSTALLATION



CURBED INTERSECTION INSTALLATION

CONTROL SIGN LOCATION



MEDIAN SIGN LOCATION

- NOTES:**
1. A 4" P.V.C. sleeve shall be installed in new concrete medians at each location where a sign is to be installed.
 2. For existing concrete medians, a 4" hole shall be bored into the concrete.

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NO Conflict of Interest at 03/09/22
303 E. BURLINGAME ST., SUITE 100
NORTH KANSAS CITY, MO 64116
TEL: 816.851.1177
WWW.OLSSON.COM

STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER
PE-2017000367
2024/22

BY
REVISIONS DESCRIPTION
DATE
NO. REV.

2020

LEE'S SUMMIT, MO

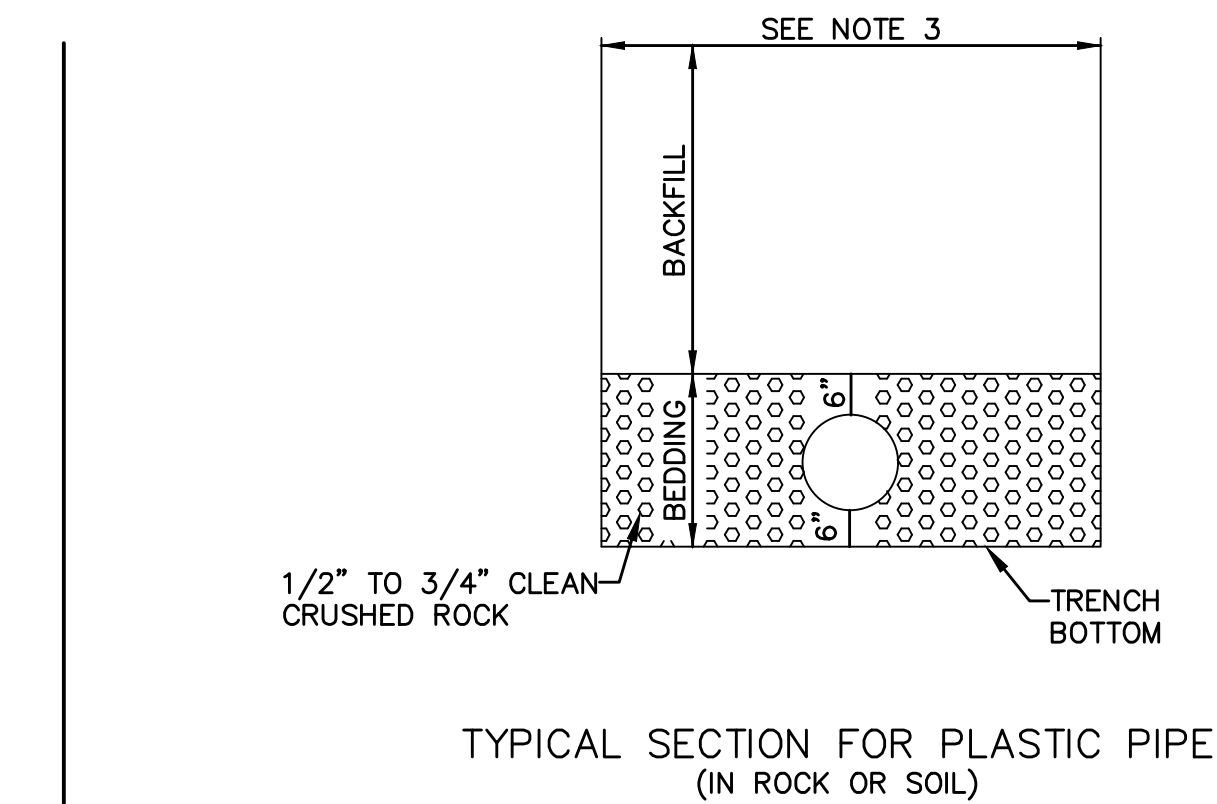
SINGAGE DETAIL SHEET
STREET & STORM SEWER PLANS

WOODSIDE RIDGE
SECOND PLAT

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

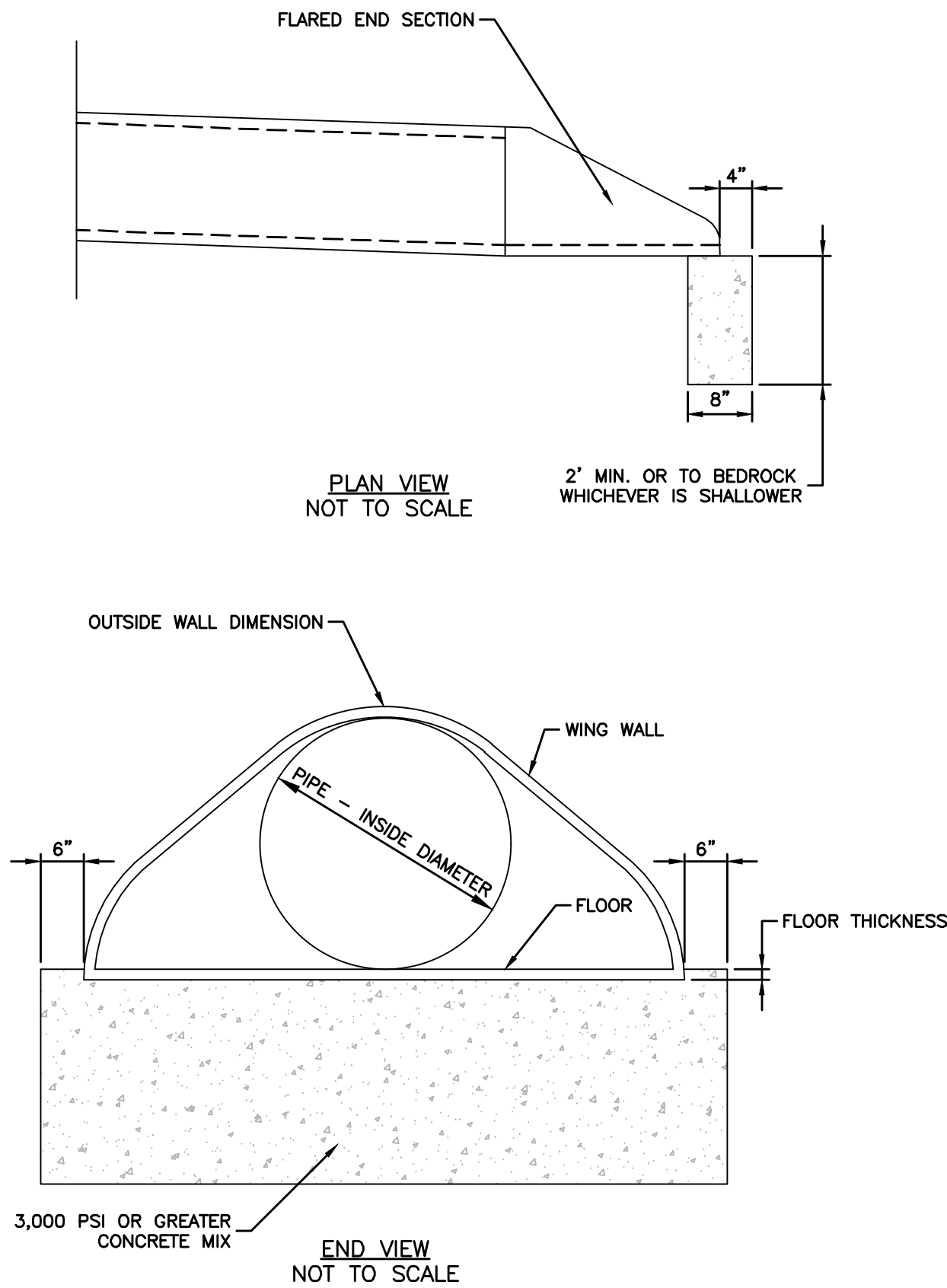
SHEET
C133

NOT ASBUILT

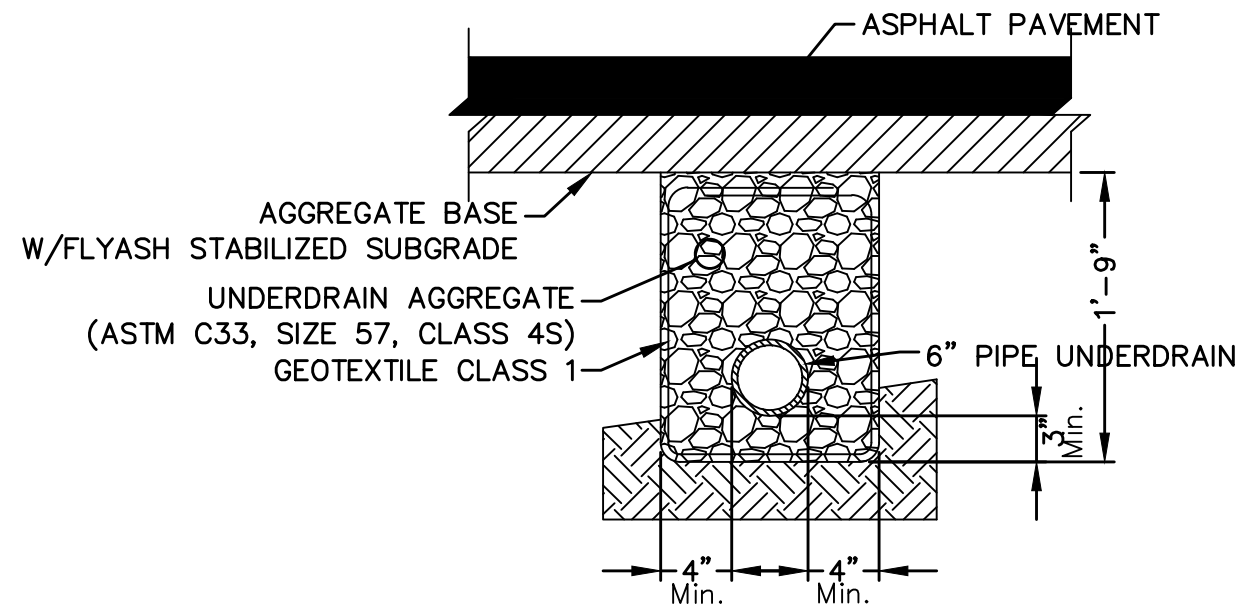


1. BACKFILL SHALL BE JOB EXCAVATED MATERIAL FREE FROM DEBRIS AND STONES COMPACTED TO 90% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 FOR BACKFILL UNDER PAVEMENT (EXISTING OR PROPOSED).
2. TRENCH BANKS MAY BE CUT BACK ON SLOPES IN ACCORDANCE WITH CURRENT OSHA REGULATIONS, BUT ONLY IN AREAS WHERE THE INCREASED TRENCH WIDTH WILL NOT INTERFERE WITH SURFACE FEATURES. SLOPES MUST NOT EXTEND BELOW TOP OF BEDDING.
3. MINIMUM AND MAXIMUM WIDTHS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATION AS APPROVED ON ENGINEERING PLANS.

01 N.T.S. UNDERGROUND PIPE INSTALLATION FROM STORM SEWER LINES



03 N.T.S. FLARED END SECTION SUPPORT DETAIL



- NOTES:
- Where Pipe Underdrains are used, all Underdrain Outlet Pipes shall be solid wall with watertight joints. All Outlets Pipes shall be tied into the nearest storm sewer inlets at roadway sag locations as indicated in the street profile.
 - All Underdrain Pipes shall be installed at a minimum slope of 1%.
 - Underdrain Pipe shall be installed with the perforations placed down.
 - Blanket Underdrain Aggregate, Pipe Underdrain Aggregate, Pipe Underdrain, Edge Underdrain and Outlet Pipe shall conform to City of Lee's Summit Specifications.
 - Overlap geotextile at top of trench a minimum of 12".

05 N.T.S. PIPE UNDERDRAIN LATERAL

NOT ASBUILT

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NOT A SUBMITTAL OF ANYTHING AT 001892
300 E. BURNING ST. SUITE 100
NORTH KANSAS CITY, MO 64116
TEL. 816.381.1177
WWW.OLSSON.COM

STATE OF MISSOURI
JULIE ELAINE SELLERS
Professional Engineer
NUMBER PE-2017000367
2024/22
EXPIRATION DATE 06/30/2026

BY
REVISIONS DESCRIPTION
DATE
NO. REV.

STORM DETAIL SHEET
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
C134

