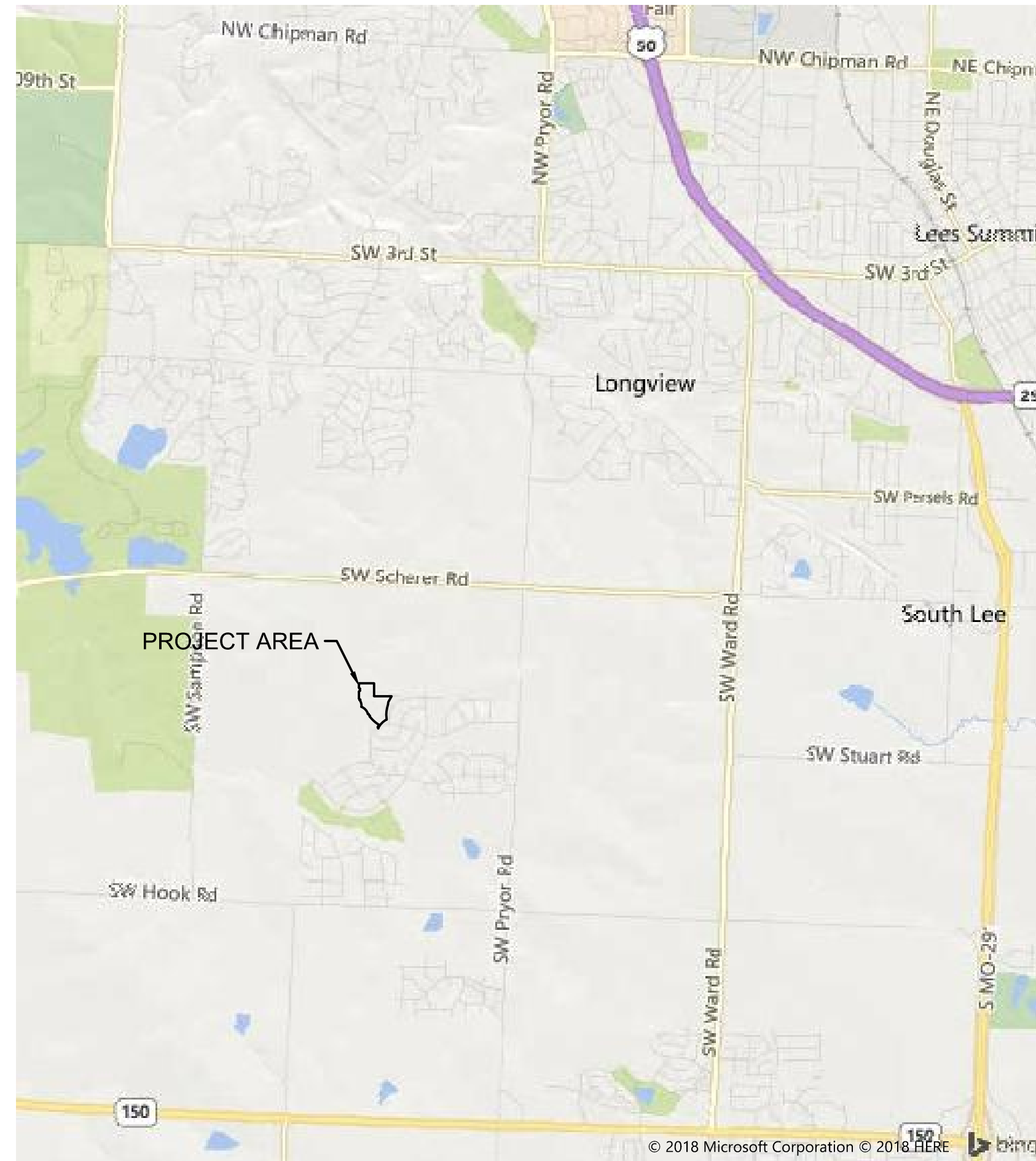


SECTION 23, TOWNSHIP 47 N., RANGE 32 W.
IN LEE'S SUMMIT, JACKSON COUNTY, MO

SECTION 23, TOWNSHIP 47 N., RANGE 32 W.
IN LEE'S SUMMIT, JACKSON COUNTY, MO

PROJECT TEAM & UTILITY CONTACT LIST	
<u>OWNER / DEVELOPER</u> HUNT MIDWEST REAL ESTATE DEVELOPMENT, INC. 8300 NE. UNDERGROUND DRIVE KANSAS CITY, MISSOURI 64161 CONTACT: BRENNER HOLLAND PHONE: 816.455.2500 FAX: 816.455.8701 EMAIL: BHOLLAND@HUNTMIDWEST.COM	<u>UTILITY SERVICE NUMBERS</u> NAME: LEE'S SUMMIT PUBLIC WORKS PHONE: 816-969-1800 NAME: LEE'S SUMMIT WATER & SERVICES DEPARTMENT PHONE: 816-969-1940 NAME: SPIRE (MGE) PHONE: 314-342-0500
<u>ENGINEER</u> OLSSON ASSOCIATES 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: NICHOLAS D. HEISER, P.E. PHONE: 816.587.4320	NAME: AT&T PHONE: 800-286-8313 NAME: KCP&L PHONE: 816-471-5275
<u>SURVEYOR</u> OLSSON ASSOCIATES 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: JASON ROUDEBUSH, P.L.S. PHONE: 816.587.4320	NAME: SPECTRUM (TWC) PHONE: 877-772-2253 NAME: GOOGLE FIBER PHONE: 877-454-6959



PROPERTY DESCRIPTION:

A TRACT OF LAND IN THE NORTHWEST QUARTER OF SECTION 23, TOWNSHIP 47 NORTH, RANGE 32 WEST OF THE 5TH PRINCIPAL MERIDIAN IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI BEING BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SAID NORTHWEST QUARTER; THENCE NORTH 87°35'47" WEST, ALONG THE NORTH LINE OF SAID NORTHWEST QUARTER, 1,001.10 FEET TO THE NORTHWEST CORNER OF EAGLE CREEK--TWELFTH PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE SOUTH 02°24'13" WEST, ALONG THE WEST LINE OF SAID EAGLE CREEK--TWELFTH PLAT, 310.00 FEET; THENCE SOUTH 87°35'47" EAST, CONTINUING ALONG SAID WEST LINE, 420.00 FEET; THENCE SOUTH 31°26'22" WEST, CONTINUING ALONG SAID WEST LINE, 162.19 FEET; THENCE SOUTH 12°31'01" WEST, CONTINUING ALONG SAID WEST LINE, 50.00 FEET; THENCE SOUTH 15°32'15" WEST, CONTINUING ALONG SAID WEST LINE, 90.42 FEET; THENCE SOUTH 12°01'59" WEST, CONTINUING ALONG SAID WEST LINE, 80.68 FEET; THENCE SOUTH 05°54'26" WEST, CONTINUING ALONG SAID WEST LINE, 80.68 FEET; THENCE SOUTH 01°37'42" EAST, CONTINUING ALONG SAID WEST LINE, 117.75 FEET TO A POINT ON THE NORTH LINE OF EAGLE CREEK--SEVENTH PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT, JACKSON COUNTY, MISSOURI; THENCE SOUTHWESTERLY, ALONG SAID NORTH LINE, ON A CURVE TO THE LEFT, HAVING AN INITIAL TANGENT BEARING OF SOUTH 69°38'42" WEST WITH A RADIUS OF 480.00 FEET, A CENTRAL ANGLE OF 32°25'10" AND AN ARC DISTANCE OF 271.60 FEET; THENCE WESTERLY, CONTINUING ALONG SAID NORTH LINE, ON A CURVE TO THE RIGHT, HAVING A COMMON TANGENT WITH THE LAST DESCRIBED COURSE WITH A RADIUS OF 25.00 FEET, A CENTRAL ANGLE OF 83°44'51" AND AN ARC DISTANCE OF 36.54 FEET TO A POINT ON THE EAST LINE OF EAGLE CREEK--THIRTEENTH PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT, JACKSON COUNTY, MISSOURI; THENCE NORTH 59°01'37" WEST, CONTINUING ALONG SAID EAST LINE, 1.76 FEET; THENCE NORTHWESTERLY, CONTINUING ALONG SAID EAST LINE, ON A CURVE TO THE RIGHT, BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 800.00 FEET, A CENTRAL ANGLE OF 21°15'50" AND AN ARC DISTANCE OF 296.90 FEET; THENCE NORTH 08°50'31" EAST, CONTINUING ALONG SAID EAST LINE, 21.80 FEET; THENCE NORTH 34°59'09" WEST, CONTINUING ALONG SAID EAST LINE, 50.00 FEET; THENCE NORTH 80°30'22" WEST, CONTINUING ALONG SAID EAST LINE, 20.95 FEET; THENCE NORTHERLY, CONTINUING ALONG SAID EAST LINE AND EAST LINE OF EAGLE CREEK--FOURTEENTH PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ON A CURVE TO THE RIGHT, BEING TANGENT TO THE INITIAL TANGENT BEARING OF NORTH 59°01'37" WEST WITH A RADIUS OF 800.00 FEET, A CENTRAL ANGLE OF 12°02'39" AND AN ARC DISTANCE OF 102.38 FEET; THENCE NORTH 30°13'38" WEST, CONTINUING ALONG SAID EAST LINE, 1.76 FEET; THENCE NORTH 16°19'09" WEST, CONTINUING ALONG SAID EAST LINE, 50.16 FEET; THENCE NORTH 73°25'49" EAST, CONTINUING ALONG SAID EAST LINE, 6.78 FEET; THENCE NORTHERLY, CONTINUING ALONG SAID EAST LINE AND EAST LINE OF EAGLE CREEK--FIFTEENTH PLAT, A SUBDIVISION IN SAID LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ON A CURVE TO THE RIGHT, HAVING AN INITIAL TANGENT BEARING OF NORTH 07°04'47" WEST WITH A RADIUS OF 800.00 FEET, A CENTRAL ANGLE OF 09°29'00" AND AN ARC DISTANCE OF 132.41 FEET; THENCE NORTH 02°24'13" EAST, CONTINUING ALONG SAID EAST LINE OF SAID EAGLE CREEK--FIFTEENTH PLAT, 134.41 FEET; THENCE NORTH 47°24'13" EAST, CONTINUING ALONG SAID EAST LINE, 35.36 FEET; THENCE NORTH 02°24'13" EAST, CONTINUING ALONG SAID EAST LINE, 50.00 FEET; THENCE NORTH 42°35'47" WEST, CONTINUING ALONG SAID EAST LINE, 35.36 FEET; THENCE NORTH 02°24'13" EAST, CONTINUING ALONG SAID EAST LINE, 105.00 FEET TO THE NORTHEAST CORNER OF SAID EAGLE CREEK--FIFTEENTH PLAT, ALSO BEING A POINT ON THE NORTH LINE OF SAID NORTHWEST QUARTER; THENCE SOUTH 87°35'47" EAST, ALONG SAID NORTH LINE, 358.00 FEET TO THE POINT OF BEGINNING. CONTAINING 496,989 SQUARE FEET OR 11.41 ACRES, MORE OR LESS.

BENCHMARK

INTERSECTION OF S.W. LADDERBACK DRIVE AND S.W. OLD PORT ROAD, N.E. QUADRANT FIRE HYDRANT TOP FLANGE BOLT EASTERN MOST WITH "X"
CHISEL ON TOP.
ELEV = 982.73

Sheet Number	Sheet Title
C101	TITLE SHEET
C102	GENERAL NOTES
C103	GENERAL LAYOUT
C104	GRADING PLAN
C105	SWALE PLAN & PROFILE
C106	SWALE PLAN & PROFILE
C107	ROADWAY PLAN & PROFILE
C108	ROADWAY PLAN & PROFILE
C109	ROADWAY PLAN & PROFILE
C110	INTERSECTION DETAILS
C111	STORM SEWER PLAN & PROFILE
C112	STORM SEWER PLAN & PROFILE
C113	DRAINAGE PLAN
C114	DRAINAGE TABLES
C115	MASTER DRAINAGE PLAN
C116	EROSION CONTROL PLAN – PHASE 1
C117	EROSION CONTROL PLAN – PHASE 2
C118	EROSION CONTROL PLAN – PHASE 3
C119	SIGNAGE PLAN
C120	DETAIL SHEET
C121	STORM DETAIL
C122	STORM DETAIL
C123	EROSION CONTROL DETAILS

ACCEPTED:

NICHOLAS D. HEISER, P.E.
CIVIL ENGINEER
MO#2015000555
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116
PHONE: 816.587.4320
FAX: 816.587.1393

06/01/2020
DATE

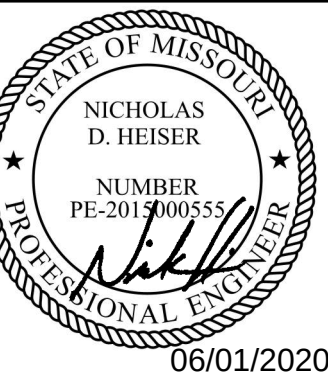
REVIEW BY:

CITY OF LEE'S SUMMIT, MISSOURI

DATE _____

☐ NOT FOR CONSTRUCTION

☒ REVIEWED FOR CONSTRUCTION

[illegible]

TITLE SHEET	
STREET, STORM & EROSION CONTROL PLANS	
EAGLE CREEK SIXTEENTH PLAT	
LEE'S SUMMIT, MO	2018

drawn by: B.P.K
checked by: N.D.H.
designed by: B.P.K.
QA/QC by: M.G.D.
project no.: 018-0847
date: 2018.04.20

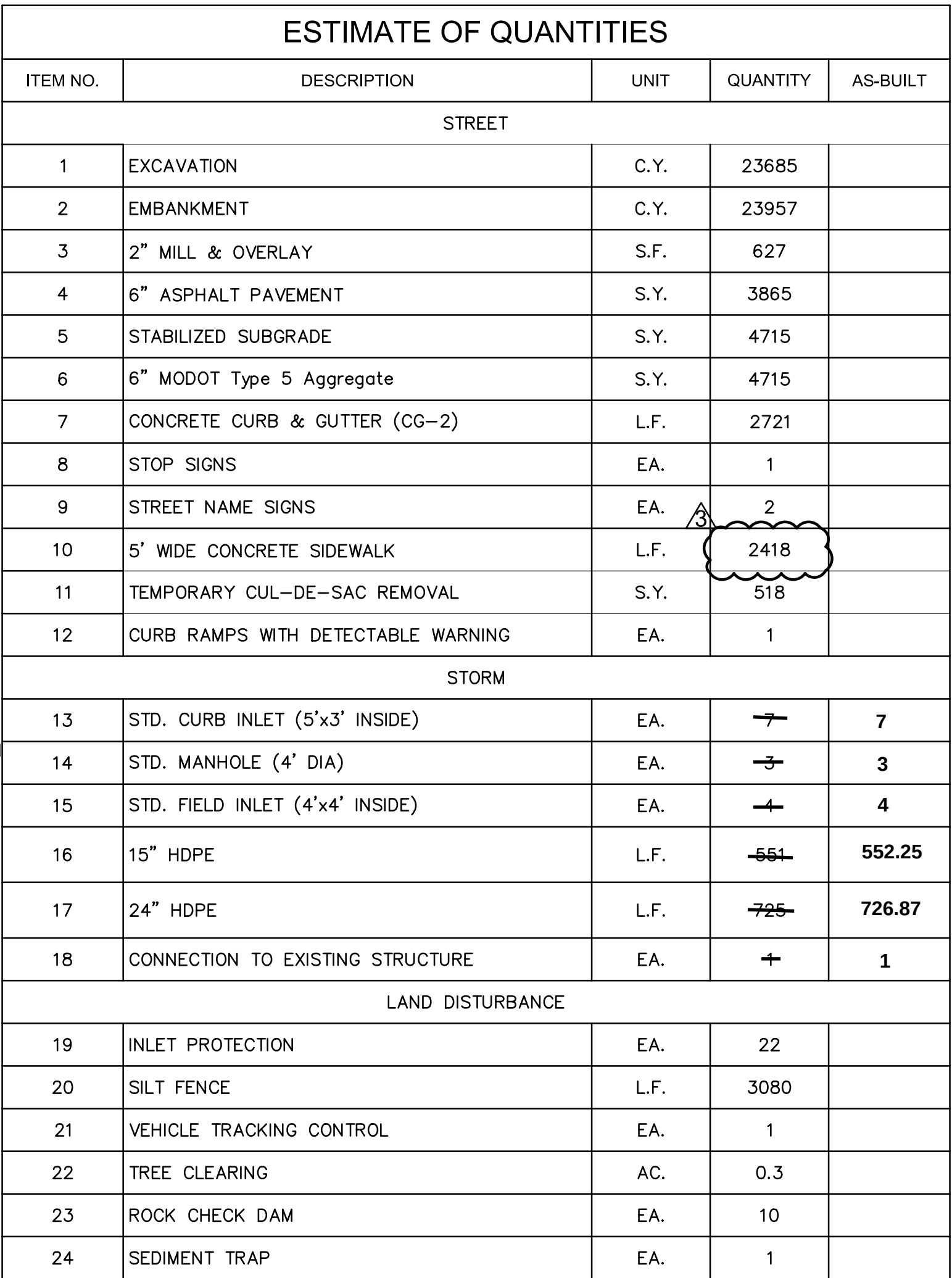
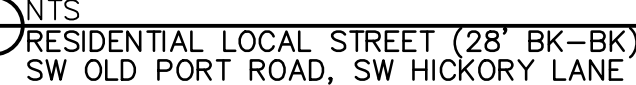
11. P.O.S= PROPOSED OPEN SPACE.

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.

2. THIS SEDIMENTATION CONTROL PLAN MAKES USE OF THE FOLLOWING APPLICATIONS:
- ☒ PRESERVATION OF EXISTING VEGETATION
- ☒ SEDIMENT BARRIERS
- ☒ SEDIMENT TRAPS
- ☒ INLET PROTECTION
- ☐ OUTLET PROTECTION
- ☐ SOIL RETAINING SYSTEMS
- ☐ SLOPE DRAINS
- ☐ SUBSURFACE DRAINS

PHYSICAL DESCRIPTION OF EACH SPECIFIC SEDIMENT CONTROL DEVICE TO BE UTILIZED IS CALLED OUT ON THE PLANS WITH INSTALLATION PROCEDURES, CONSTRUCTION SPECIFICATIONS AND MAINTENANCE ARRANGEMENT AS CALLED FOR ON THE DETAIL SHEET. IN ADDITION TO THE MEASURES SPECIFIED, THE FOLLOWING GENERAL PRACTICES SHALL BE ADHERED TO WHEN APPLICABLE.

5. ALL EROSION CONTROL MEASURES, TEMPORARY OR PERMANENT, REQUIRE MAINTENANCE TO PRESERVE THEIR EFFECTIVENESS. ALL EROSION CONTROL DEVICES SHALL BE INSPECTED IMMEDIATELY AFTER EACH HEAVY RAINSTORM AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHOULD BE MADE IMMEDIATELY. ALL COSTS ASSOCIATED WITH THE REPAIR WORK INCLUDING RELATED INCIDENTALS WILL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID FOR THE PROPOSED WORK.



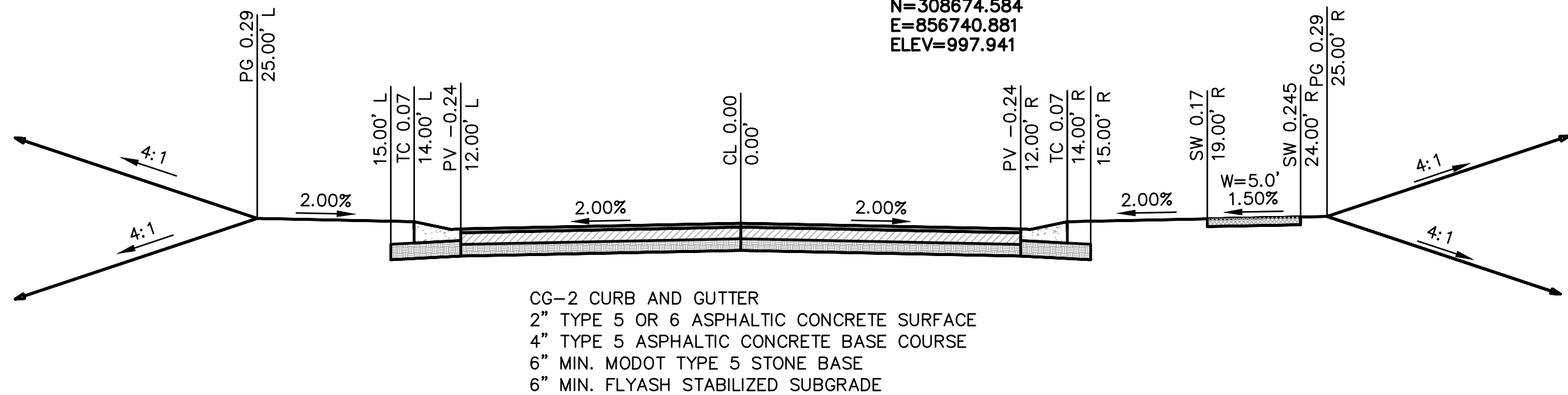
SUMMARY OF QUANTITIES AS INDICATED ABOVE AND ANY QUANTITIES AS SHOWN WITHIN THE PLANS HAVE BEEN PROVIDED FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR USE IN PREPARATION OF CONTRACT DOCUMENTS. QUANTITIES INTENDED FOR, BUT NOT LIMITED TO, THE PREPARATION OF PROPOSALS AND BID DOCUMENTS SHALL BE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

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E=855593.297
ELEV=982.37

14.20 FEET WEST TO SECTIONALIZER S.E. CORNER
N=308566.672
E=855581.894
ELEV=983.47

CURB, 8.00 FEET SOUTH EAST TO CL MANHOLE.
N=308014.383
E=856347.385
ELEV=977.09

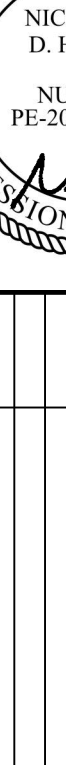
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E=856740.881
ELEV=997.941



DATE: 05/29/2020

LEGEND	
<u>E</u> - <u>CTV</u> - <u>OH</u>	EXISTING CABLE TV, OVERHEAD
<u>E</u> CTV	EXISTING CABLE TV, UNDERGROUND
<u>CTV</u> - <u>OH</u>	PROPOSED CABLE TV, OVERHEAD
CTV	PROPOSED CABLE TV, UNDERGROUND
<u>F</u> CTV- <u>OH</u>	FUTURE CABLE TV, OVERHEAD
FCTV	FUTURE CABLE TV, UNDERGROUND
<u>F</u> FOH	EXISTING FIBER OPTIC, OVERHEAD
FO	EXISTING FIBER OPTIC, UNDERGROUND
<u>F</u> OH	PROPOSED FIBER OPTIC, OVERHEAD
FO	PROPOSED FIBER OPTIC, UNDERGROUND
<u>F</u> FOH	FUTURE FIBER OPTIC, OVERHEAD
FFO	FUTURE FIBER OPTIC, UNDERGROUND
<u>FP</u>	EXISTING FIRE PROTECTION SYSTEM LINE
FP	PROPOSED FIRE PROTECTION SYSTEM LINE
<u>F</u>	FUTURE FIRE PROTECTION SYSTEM LINE
<u>E</u> FL	EXISTING FUEL LINE
FL	PROPOSED FUEL LINE
<u>F</u> FL	FUTURE FUEL LINE
<u>E</u> G	EXISTING NATURAL GAS LINE
G	PROPOSED NATURAL GAS LINE
<u>F</u> G	FUTURE NATURAL GAS LINE
<u>E</u> TEL- <u>OH</u>	EXISTING TELEPHONE LINE, OVERHEAD
ETEL	EXISTING TELEPHONE LINE, UNDERGROUND
<u>TEL</u> - <u>OH</u>	PROPOSED TELEPHONE LINE, OVERHEAD
TEL	PROPOSED TELEPHONE LINE, UNDERGROUND
<u>F</u> TEL- <u>OH</u>	FUTURE TELEPHONE LINE, OVERHEAD
FTEL	FUTURE TELEPHONE LINE, UNDERGROUND
<u>E</u> EOH	EXISTING POWER/ELECTRIC LINE, OVERHEAD
EE	EXISTING POWER/ELECTRIC LINE, UNDERGROUND
<u>E</u> OH	PROPOSED POWER/ELECTRIC LINE, OVERHEAD
E	PROPOSED POWER/ELECTRIC LINE, UNDERGROUND
<u>F</u> EOH	FUTURE POWER/ELECTRIC LINE, OVERHEAD
FE	FUTURE POWER/ELECTRIC LINE, UNDERGROUND
<u>ESS</u>	EXISTING SANITARY SEWER
<u>SS</u>	PROPOSED SANITARY SEWER
<u>F</u> SS	FUTURE SANITARY SEWER
<u>ESL</u>	EXISTING STEAM LINE
SL	PROPOSED STEAM LINE
<u>F</u> SL	FUTURE STEAM LINE
<u>EST</u>	EXISTING STORM SEWER
<u>ST</u>	PROPOSED STORM SEWER
<u>F</u> ST	FUTURE STORM SEWER
<u>EW</u>	EXISTING WATER LINE
<u>W</u>	PROPOSED WATER LINE
<u>F</u> W	FUTURE WATER LINE

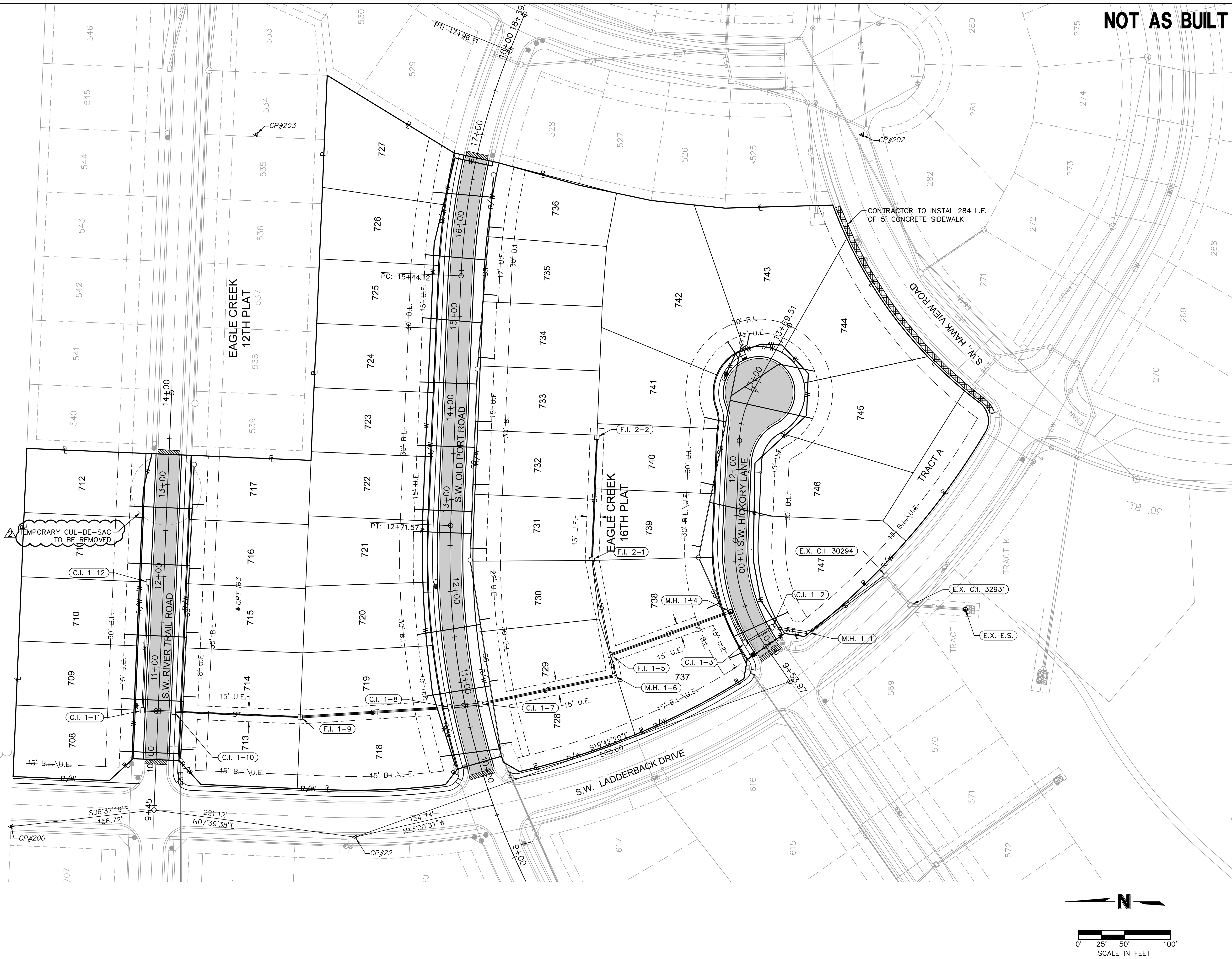
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						NO Certificate of Authority # 0016592 1301 BURLINGTON SUITE 100 NORTH KANSAS CITY, MO 64116 TEL 816.587.4320 FAX 816.587.1393 www.olsonassociates.com					
						06/01/2020					
GENERAL NOTES		REVISIONS DESCRIPTION		BY							
STREET, STORM & EROSION CONTROL PLANS EAGLE CREEK SIXTEENTH PLAT		NO. REV.	DATE								
		1	06-15-2018	CITY COMMENTS - 05/17/2018							
		2	07/12/2018	CITY COMMENTS - 07/10/2018							
		3	07/31/2018	CITY COMMENTS - 07/31/2018							
		REVISIONS									
LEE'S SUMMIT, MO		2018									

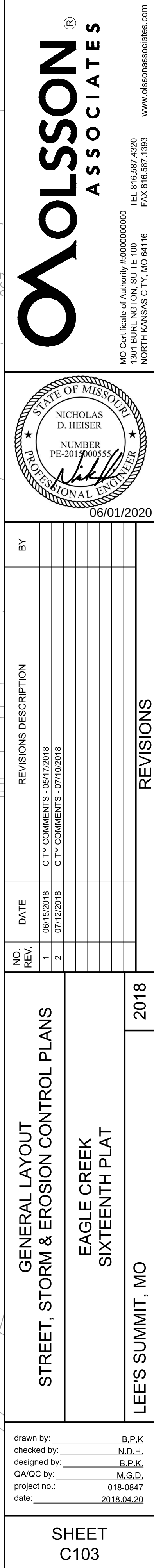
drawn by: _____ R.P.K.
 checked by: _____ N.D.H.
 designed by: _____ R.P.K.
 QA/QC by: _____ M.G.D.
 project no.: _____ 018-0847
 date: _____ 2018.04.20

SHEET

C102



NOT AS BUILT



drawn by: _____ B.P.K. checked by: _____ N.D.H. designed by: _____ B.P.K. QA/QC by: _____ M.G.D. project no.: _____ 018-0947 date: _____ 2018.04.20		GENERAL LAYOUT STREET, STORM & EROSION CONTROL PLANS		NO. REV.	DATE	REVISIONS DESCRIPTION	BY
		EAGLE CREEK SIXTEENTH PLAT		1 06/15/2018 CITY COMMENTS - 05/17/2018 2 07/12/2018 CITY COMMENTS - 07/10/2018	REVISIONS		
LEE'S SUMMIT, MO		2018					

SHEET
C103

MO Certificate of Authority #0000000000
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.587.4320
FAX 816.587.1393
www.olssonassociates.com

USER: bkoleci



GENERAL NOTES:

1. 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.
2. 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.
3. CONTRACTOR SHALL ADHERE TO THE SITE PREPARATION AND STRUCTURAL FILL RECOMMENDATIONS AS CALLED OUT IN THE GEOTECHNICAL REPORT AND ENGINEERING EVALUATION AS PROVIDED BY THE GEOTECHNICAL ENGINEER.
4. 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.

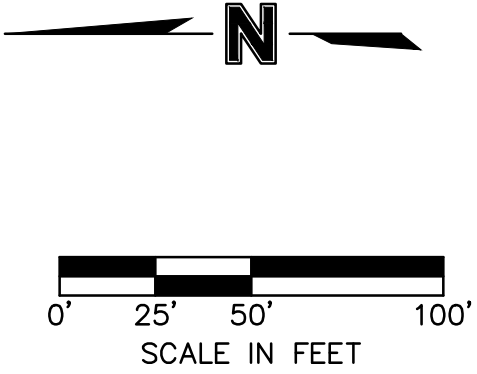
EARTHWORK QUANTITIES		
LOCATION	CUT (C.Y.)	FILL (C.Y.)
STREET	2038	2612
SITE	21647	21345
TOTAL	23685	23957

EARTHWORK QUANTITIES NOTES:

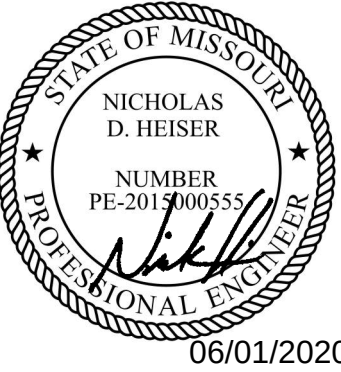
1. EARTHWORK QUANTITIES BASED ON FINISHED GRADE SURFACE AND DO NOT INCLUDE ADJUSTMENTS FOR TOPSOIL AND SHRINKAGE.
2. EARTHWORK QUANTITIES DO NOT TAKE INTO CONSIDERATION EXCAVATION, REMOVAL AND DISPOSAL OF MATERIAL DEEMED UNSUITABLE BY A GEOTECHNICAL ENGINEER. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR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

LEGEND	
	EXISTING INDEX CONTOURS
	EXISTING INTERMEDIATE CONTOURS
	PROPOSED INDEX CONTOURS
	PROPOSED INTERMEDIATE CONTOURS

NOT AS BUILT



WOLSSON[®]
ASSOCIATES



06/01/2020

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REVISIONS

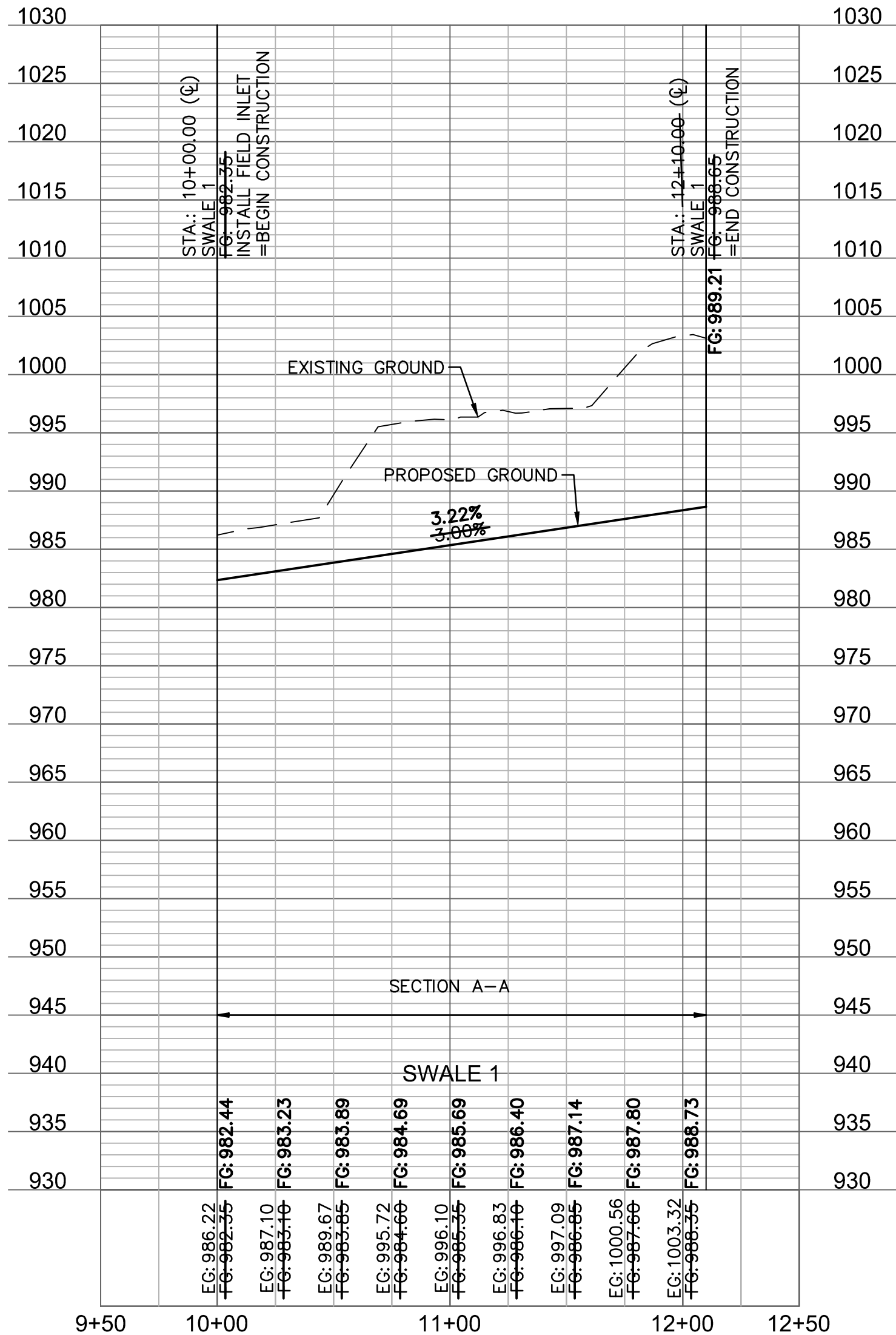
GRADING PLAN STREET, STORM & EROSION CONTROL PLANS

EAGLE CREEK
SIXTEENTH PLAT

LEE'S SUMMIT. MO

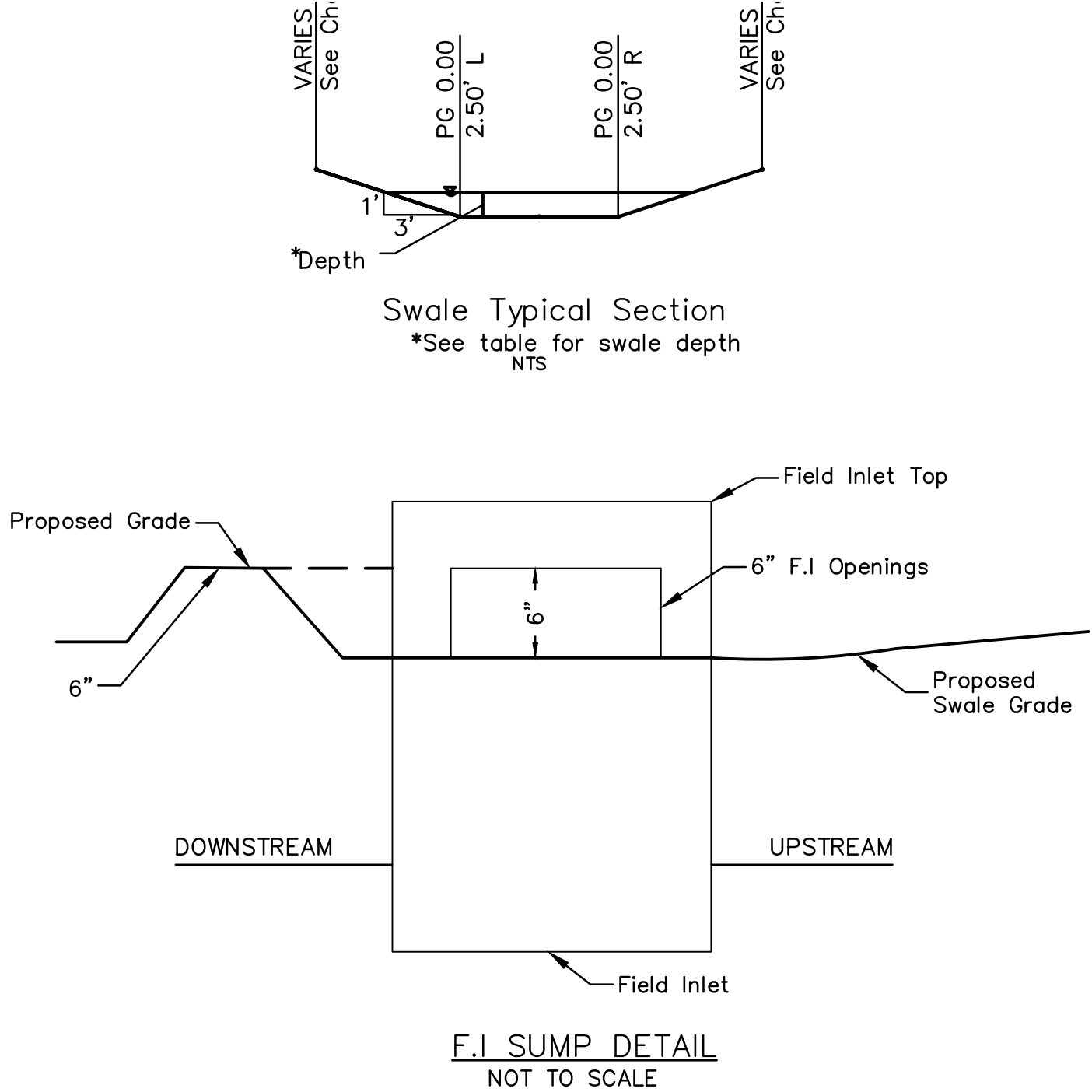
drawn by: B.P.K
checked by: N.D.H.
designed by: B.P.K.
QA/QC by: M.G.D.
project no.: 018-0847
date: 2018.04.20

SHEET
C104

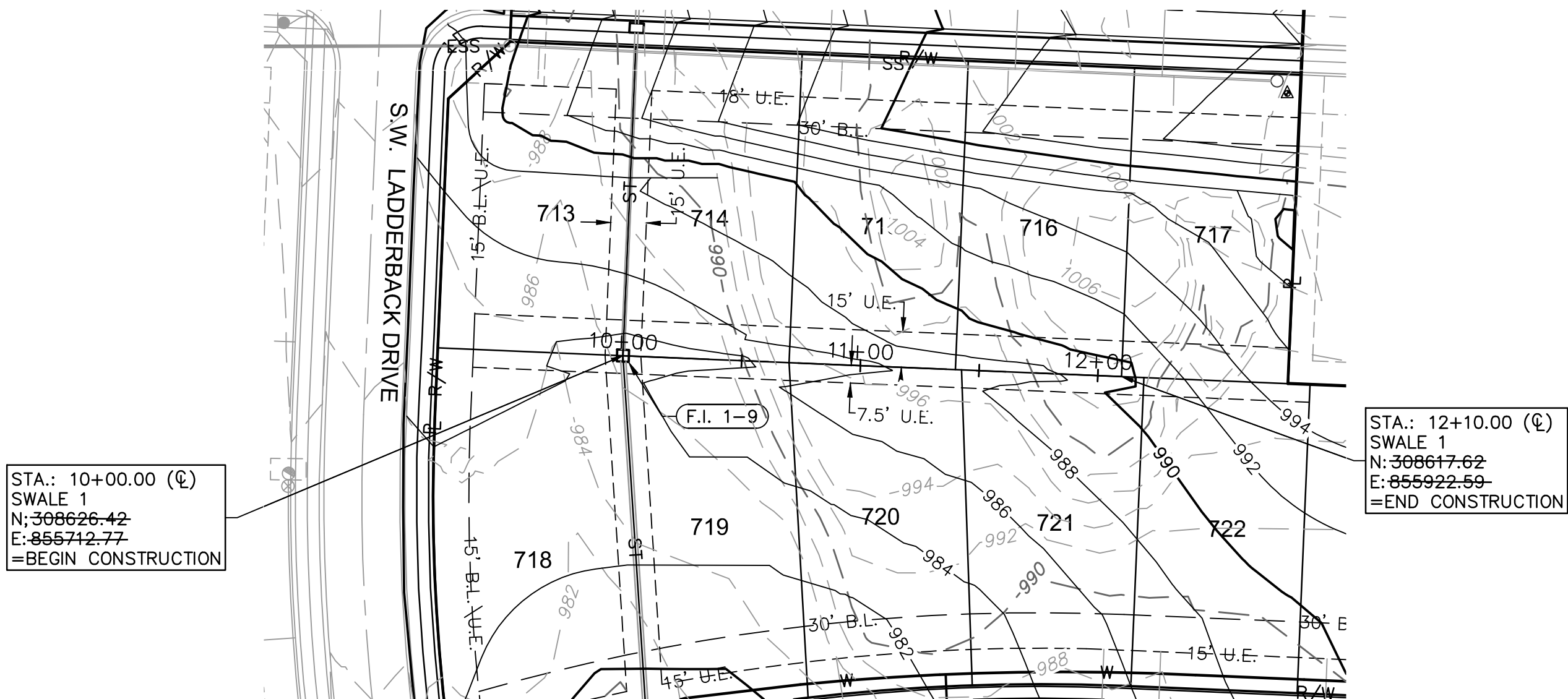
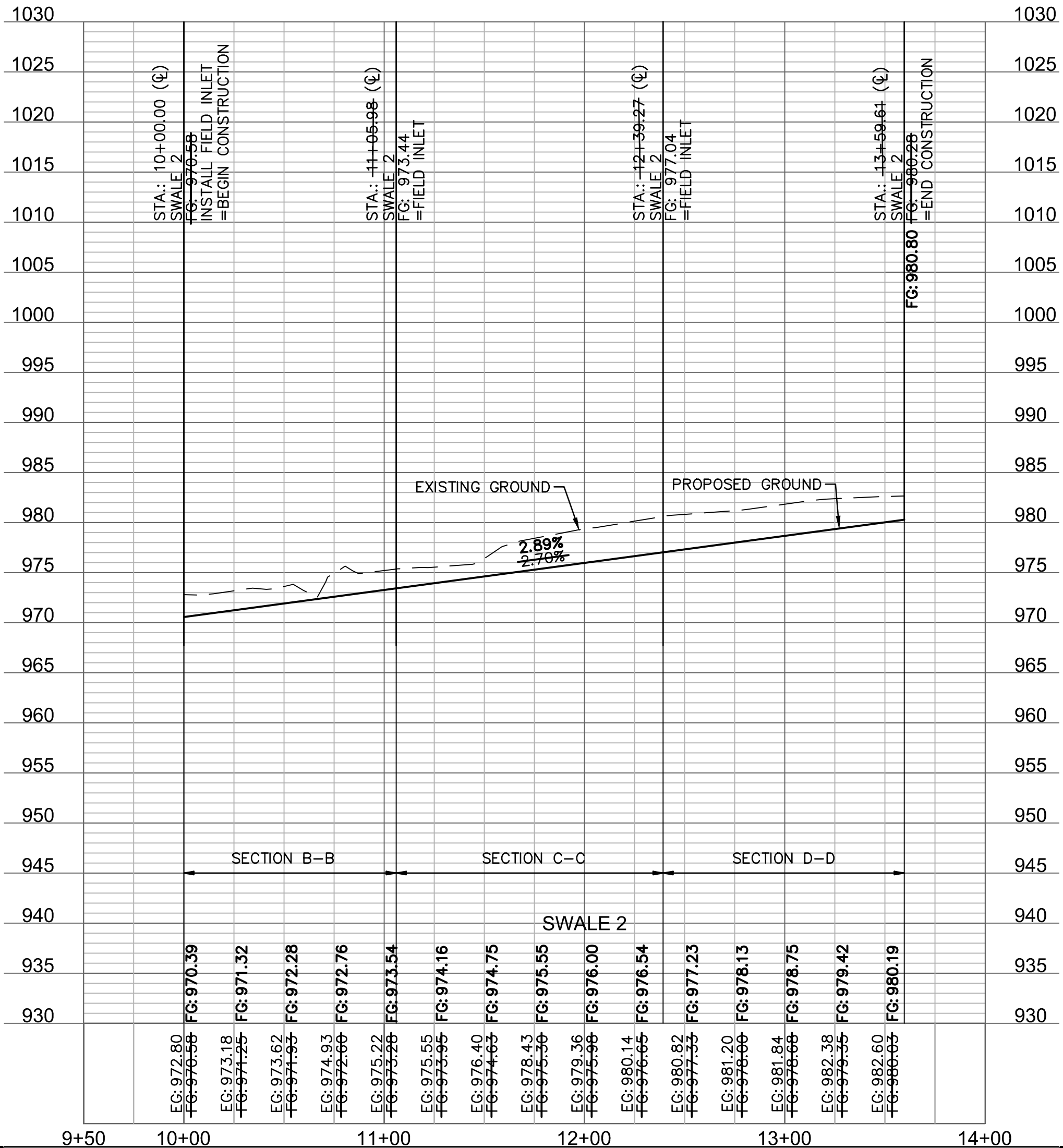
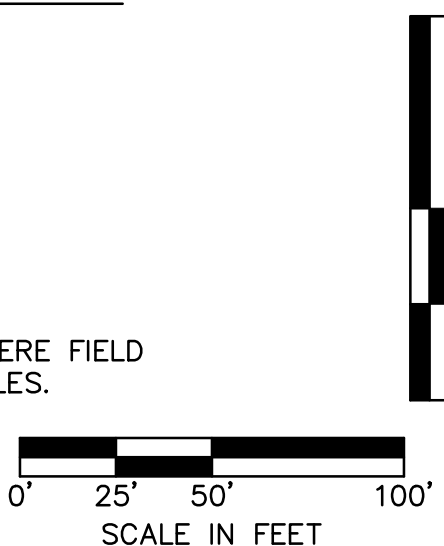


SWALE DESIGN TABLE (100-YEAR RETURN FREQUENCY)														
SECTION DATA								RESULTS						
SECTION	Mannings Coefficient	Channel Slope (%)	Minimum Swale Depth (ft)	Left Side Slope (H:V)	Right Side Slope (H:V)	Bottom Width (ft)	Discharge (cfs)	Water Depth (ft)	Flow Area (ft2)	Velocity (ft/sec)	Wetted Perimeter (ft)	Top Width (ft)	Specific Energy (ft)	Shear Stress (lbs/ft3)
A-A	0.03	3.00%	1.35	3:1	3:1	5	7.70	0.35	2.12	3.64	7.21	7.10	0.56	0.55
B-B	0.03	2.70%	1.31	3:1	3:1	5	5.86	0.31	1.84	3.19	6.96	6.86	0.47	0.44
C-C	0.03	2.70%	1.23	3:1	3:1	5	3.42	0.23	1.31	2.61	6.45	6.38	0.34	0.34
D-D	0.03	2.70%	1.25	3:1	3:1	5	4.01	0.25	1.44	2.79	6.58	6.50	0.37	0.37

SWALE GRADING NOTES:
1. CONTRACTOR SHALL CONSTRUCT SWALES WITH MINIMUM SLOPE, WIDTH AND DEPTH AS SHOWN IN THE SWALE DESIGN TABLES.
2. AS-BUILT SURVEY IS REQUIRED/APPROVED BY CITY FOR ALL SWALES AND PRIOR TO APPROVAL FOR ANY BUILDING FOUNDATION PERMIT. CONTRACTOR SHALL BE REQUIRED TO REGRADE SWALES AT CONTRACTOR'S EXPENSE IF ABOVE REQUIREMENTS ARE NOT MET.

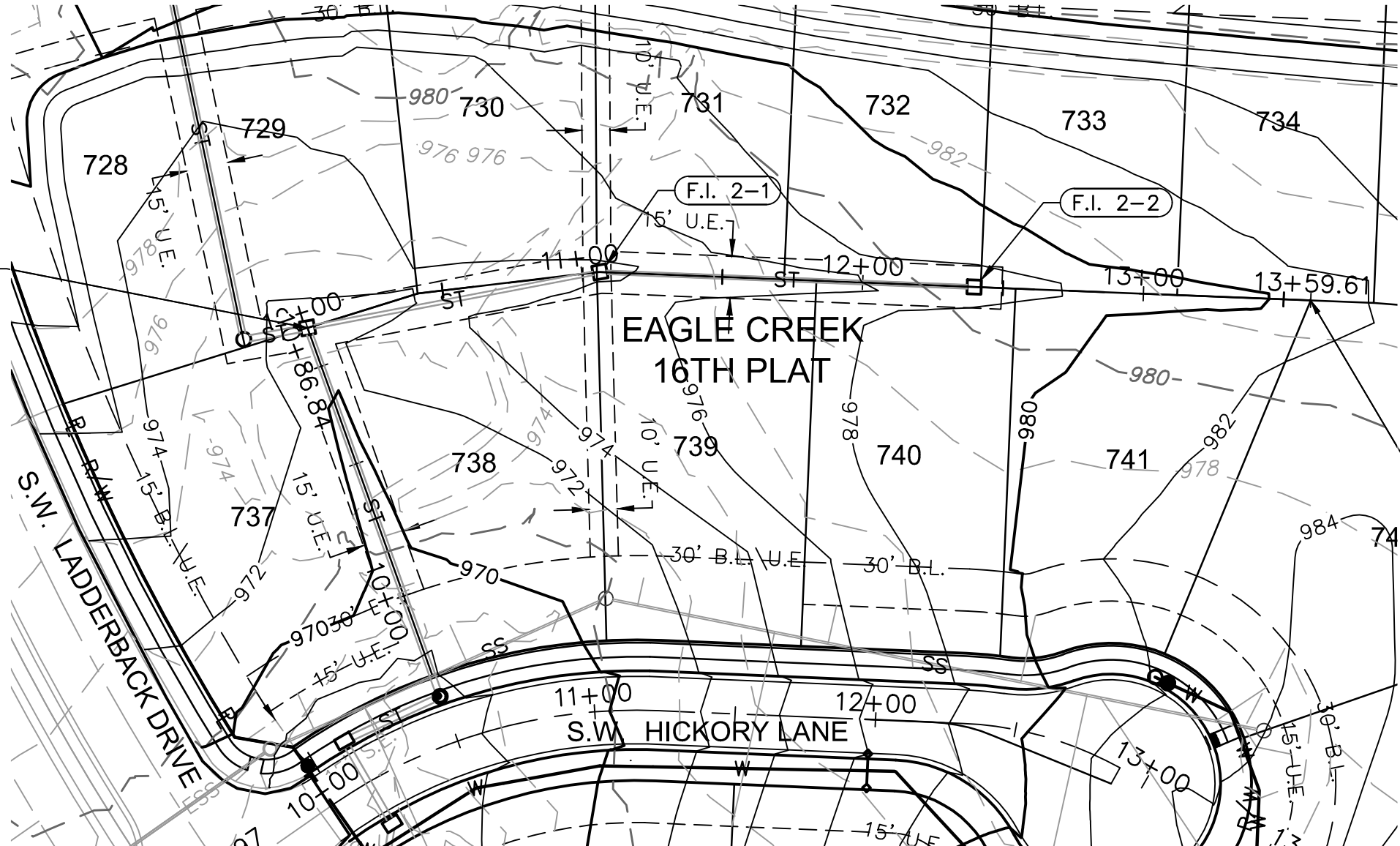


NOTE: INCLUDE SUMP PER ABOVE DETAIL WHERE FIELD INLETS ARE LOCATED ON GRADE WITHIN SWALES.



STA.: 10+00.00 (E)
SWALE 2
N: 308288.47
E: 855788.40
=BEGIN CONSTRUCTION

STA.: 12+10.00 (E)
SWALE 1
N: 308617.62
E: 855922.59
=END CONSTRUCTION



STA.: 13+59.61 (E)
SWALE 2
N: 308298.22
E: 856137.51
=END CONSTRUCTION

AS BUILT
DATE: 05/29/2020

OLSSON ASSOCIATES

MO Certificate of Authority #001592
1301 EURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.587.4320
FAX 816.587.1393
www.olsonassociates.com

STATE OF MISSOURI
NICHOLAS D. HEISER
NUMBER PE-2013000555
PROFESSIONAL ENGINEER

06/01/2020

BY

REVISIONS DESCRIPTION

CITY COMMENTS - 05/17/2018

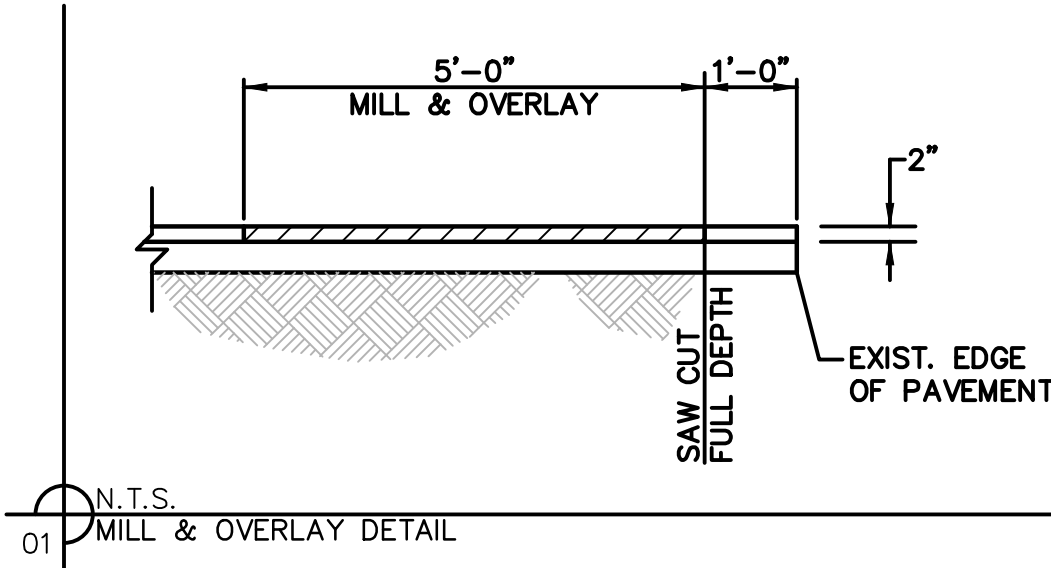
SWALE PLAN & PROFILE
STREET, STORM & EROSION CONTROL PLANS

EAGLE CREEK
SIXTEENTH PLAT

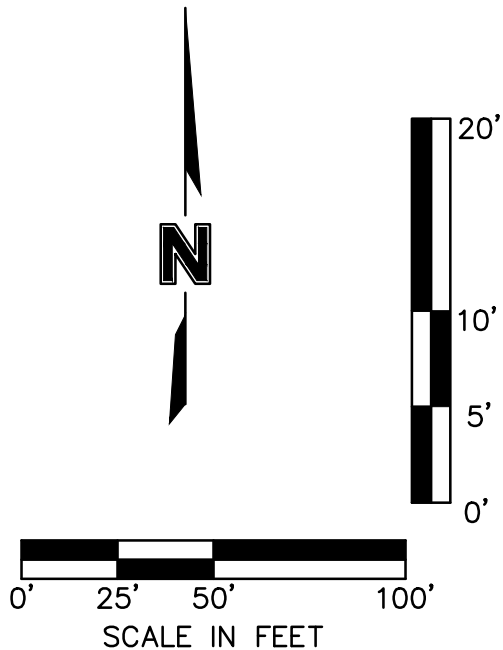
2018

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project no.: 018-0847
date: 2018.04.20

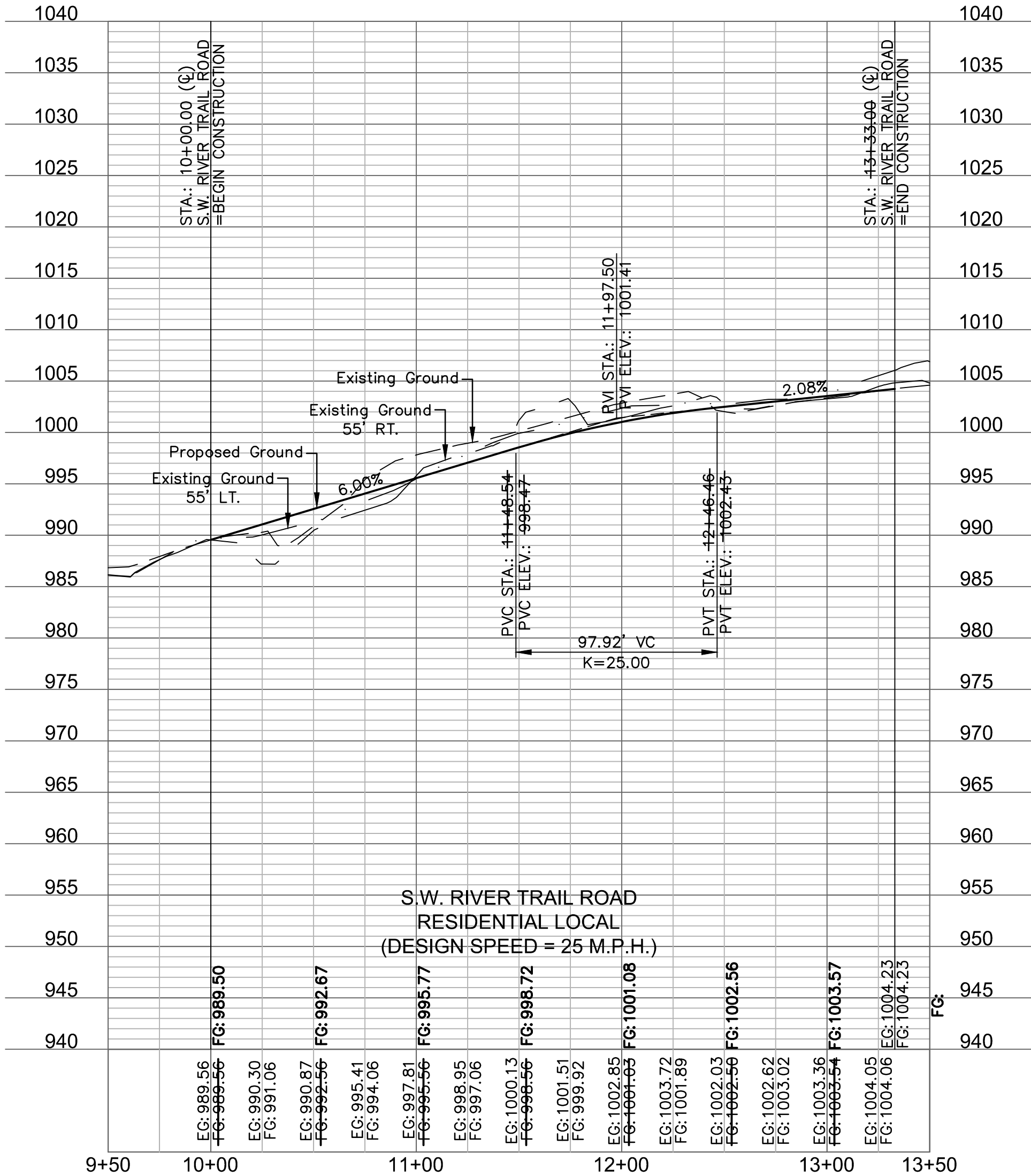
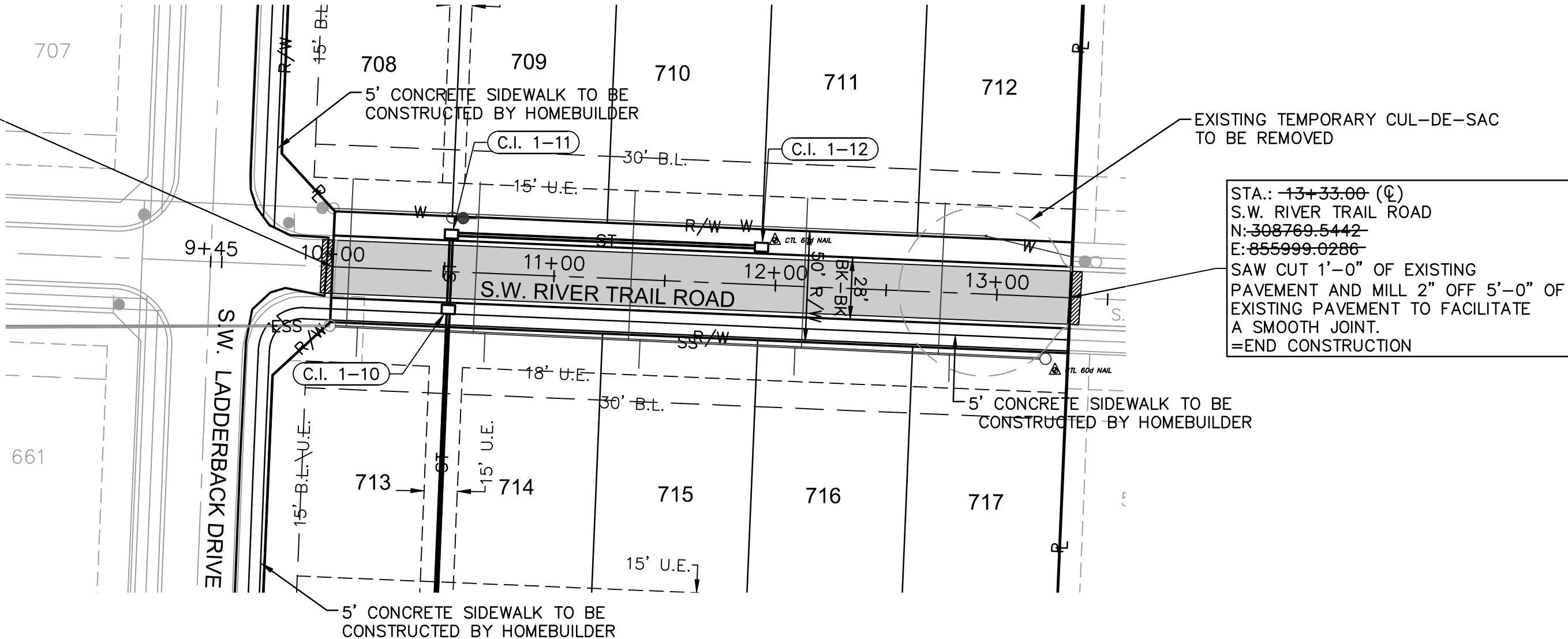
SHEET
C105



LEGEND	
	MILL & OVERLAY
	CONCRETE SIDEWALK
	ASPHALT PAVEMENT
	CG-2 CURB & GUTTER (See Detail Sheet)

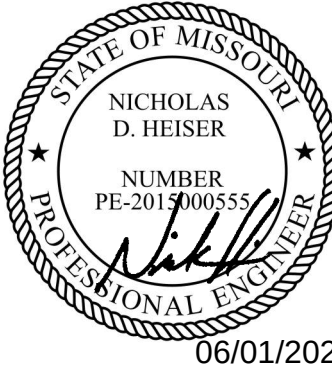


STA.: 10+00.00 (C)
S.W. RIVER TRAIL ROAD
N: 308783.5092
E: 855666.3216
SAW CUT 1'-0" OF EXISTING PAVEMENT AND MILL 2" OFF 5'-0" OF EXISTING PAVEMENT TO FACILITATE A SMOOTH JOINT.
=BEGIN CONSTRUCTION



AS BUILT
DATE: 05/29/2020

MOLSSON
ASSOCIATES[®]



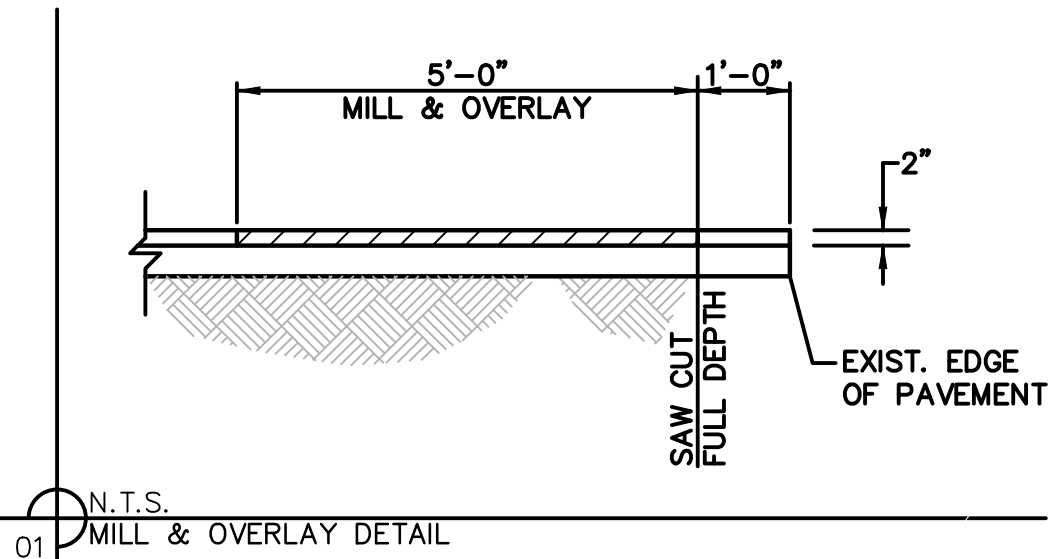
NO.	REV.	DATE	REVISIONS DESCRIPTION
1		06/18/2018	CITY COMMENTS - 06/17/2018
2		07/12/2018	CITY COMMENTS - 07/10/2018
3		07/31/2018	CITY COMMENTS - 07/31/2018

ROADWAY PLAN & PROFILE STREET, STORM & EROSION CONTROL PLANS	2018
EAGLE CREEK SIXTEENTH PLAT	
LEE'S SUMMIT, MO	

drawn by: B.P.K.
checked by: N.D.H.
designed by: B.P.K.
QA/QC by: M.G.D.
project no.: 018-0847
date: 2018.04.20

SHEET
C107

CURVE	RADIUS	LENGTH	TANGENT	P.I. STA. (BK.)
A	800	665.20	353.19	9+18.38
B	735	252.00	127.24	16+68.87

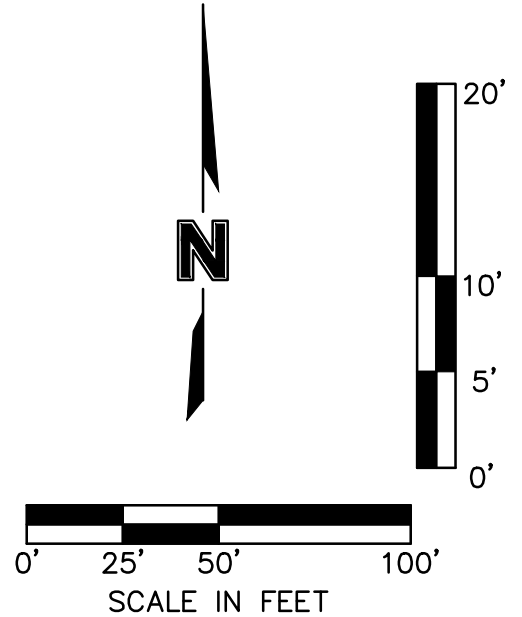
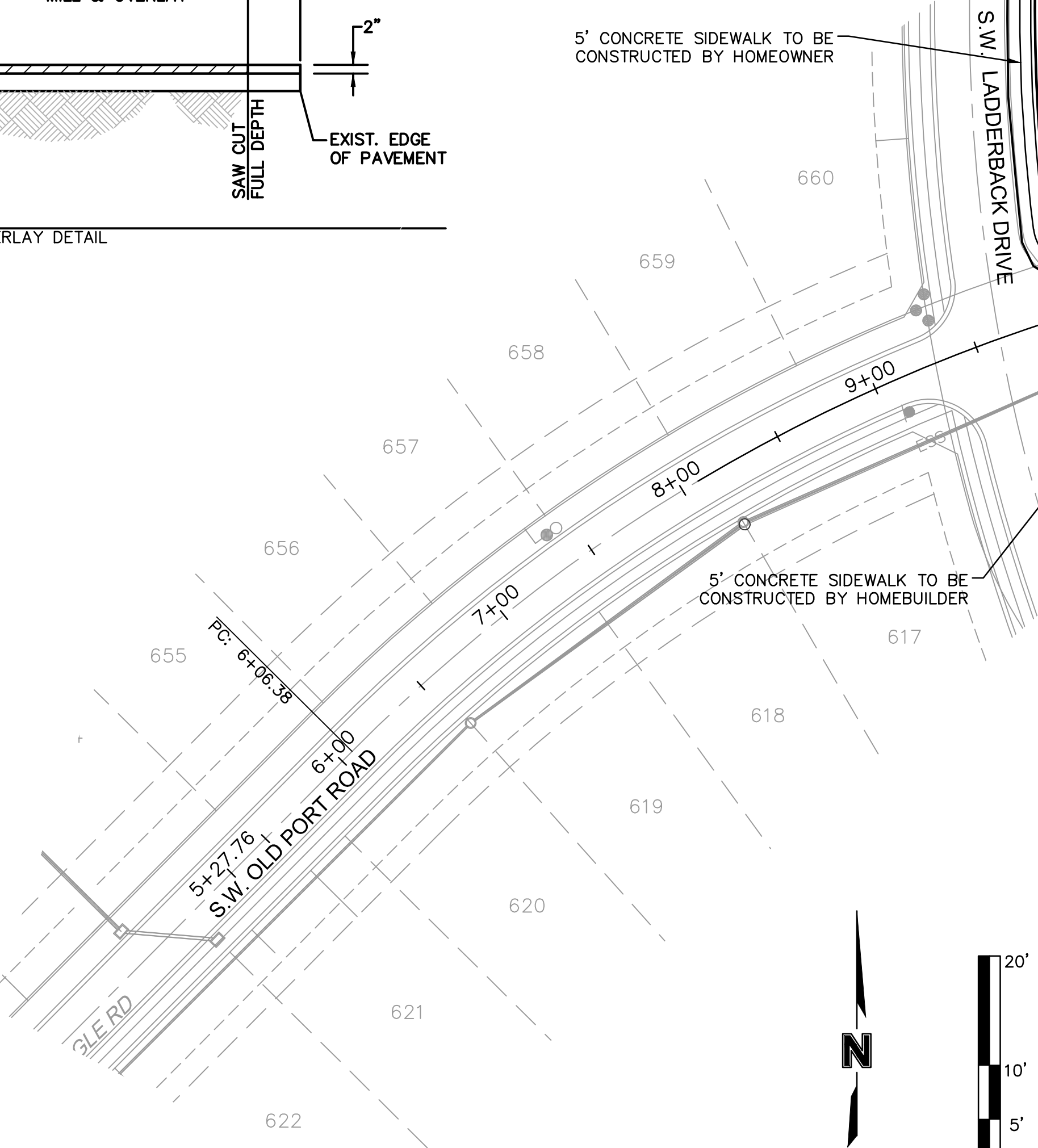


STA.: 10+00.00 (C)
S.W. OLD PORT ROAD
N: 308428.0880
E: 855653.2998
SAW CUT 1'-0" OF EXISTING
PAVEMENT AND MILL 2" OFF 5'-0" OF
EXISTING PAVEMENT TO FACILITATE
A SMOOTH JOINT.
=BEGIN CONSTRUCTION

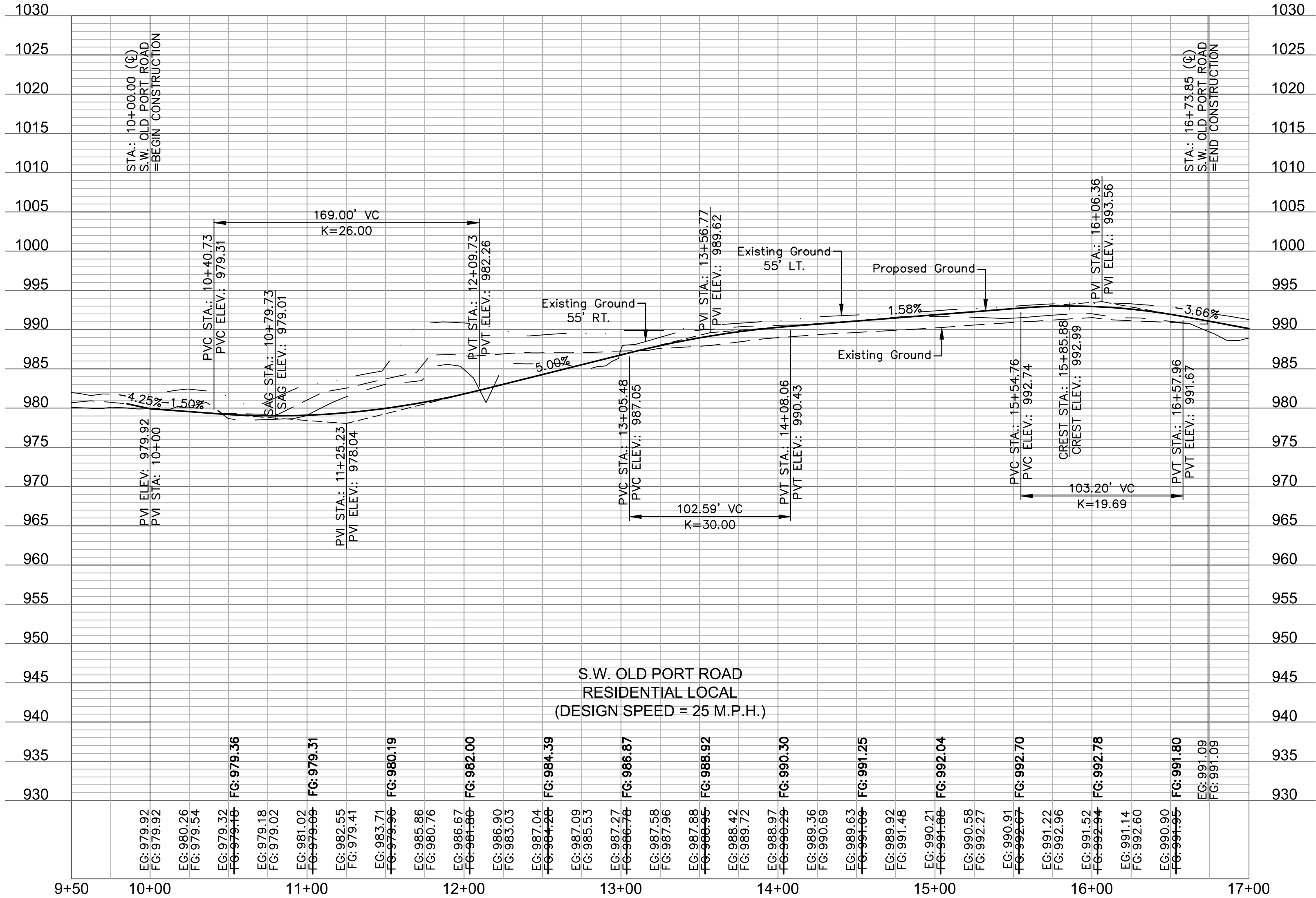
5' CONCRETE SIDEWALK TO BE
CONSTRUCTED BY HOMEOWNER

5' CONCRETE SIDEWALK TO BE
CONSTRUCTED BY HOMEOWNER

STA.: 16+73.85 (C)
S.W. OLD PORT ROAD
N: 308434.2787
E: 856322.1408
SAW CUT 1'-0" OF EXISTING
PAVEMENT AND MILL 2" OFF 5'-0" OF
EXISTING PAVEMENT TO FACILITATE
A SMOOTH JOINT.
=END CONSTRUCTION



LEGEND	
	MILL & OVERLAY
	CONCRETE SIDEWALK
	ASPHALT PAVEMENT
	CG-2 CURB & GUTTER (See Detail Sheet)



AS BUILT
DATE: 05/29/2020

OLSSON

ASSOCIATES

MO Certificate of Authority #001592
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.587.4320
FAX 816.587.1393
www.olsonassociates.com

STATE OF MISSOURI
NICHOLAS D. HEISER
NUMBER PE-2013-000555
PROFESSIONAL ENGINEER
06/01/2020

ROADWAY PLAN & PROFILE
STREET, STORM & EROSION CONTROL PLANS

EAGLE CREEK
SIXTEENTH PLAT

LEE'S SUMMIT, MO

drawn by: B.B.K.
checked by: N.D.H.
designed by: B.B.K.
QA/QC by: M.G.D.
project no.: 018-0847
date: 2018.04.20

SHEET
C108

NO. REV. DATE REVISIONS DESCRIPTION

1 06/15/2018 CITY COMMENTS - 06/17/2018

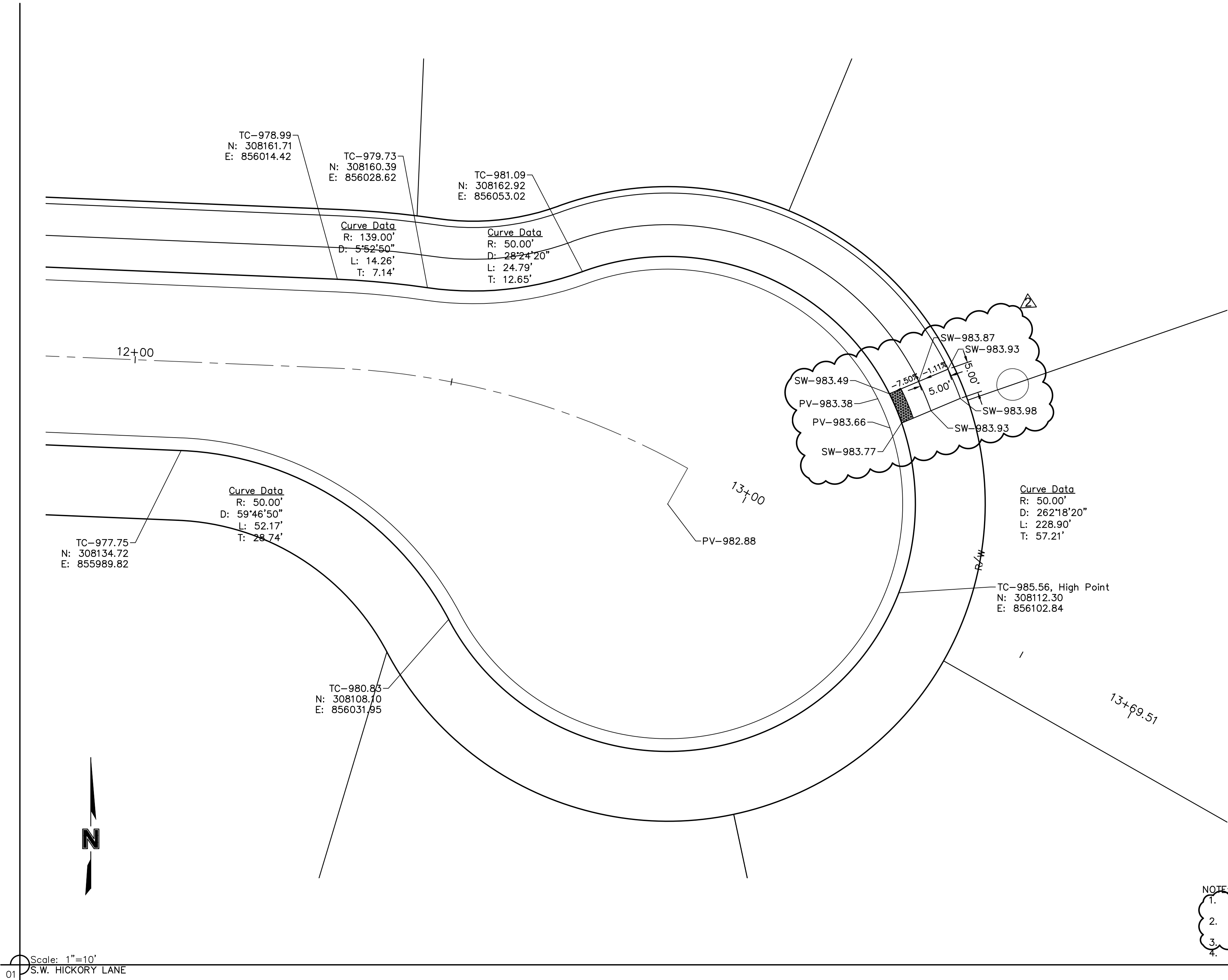
2 07/19/2018 CITY COMMENTS - 07/10/2018

3 07/31/2018 CITY COMMENTS - 07/31/2018

REVISIONS

2018

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DATE: Jul 19, 2018 10:58am



- NOTE:
- 1. ALL ADA CURB RAMPS SHALL BE BUILT PER CURRENT MUNICIPALITY ADOPTED ADA STANDARDS.
 - 2. A TURNING SPACE IS REQUIRED AT ALL DIRECTIONAL CHANGES, WHICH SHALL NOT HAVE A SLOPE GREATER THAN 2%.
 - 3. RAMP RUNS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:12
 - 4. CURVE DATA IS FOR BACK OF CURBS.

LEGEND	
TC-	TOP OF CURB
PV-	TOP OF PAVEMENT

NOT AS BUILT

INTERSECTION DETAILS

STREET, STORM & EROSION CONTROL PLANS

EAGLE CREEK

SIXTEENTH PLAT

LEE'S SUMMIT, MO

2018

drawn by: B.P.K

checked by: N.D.H.

designed by: B.P.K

QA/QC by: M.G.D.

project no.: 018-0847

date: 2018.04.20

SHEET

C110

NO. REV.

1

2

DATE

06/15/2018

07/12/2018

REVISIONS DESCRIPTION

CITY COMMENTS - 06/17/2018

CITY COMMENTS - 07/10/2018

BY

REVISIONS

STATE OF MISSOURI

NICHOLAS D. HEISER

NUMBER PE-2013-000555

PROFESSIONAL ENGINEER

06/01/2020

OLSSON ASSOCIATES

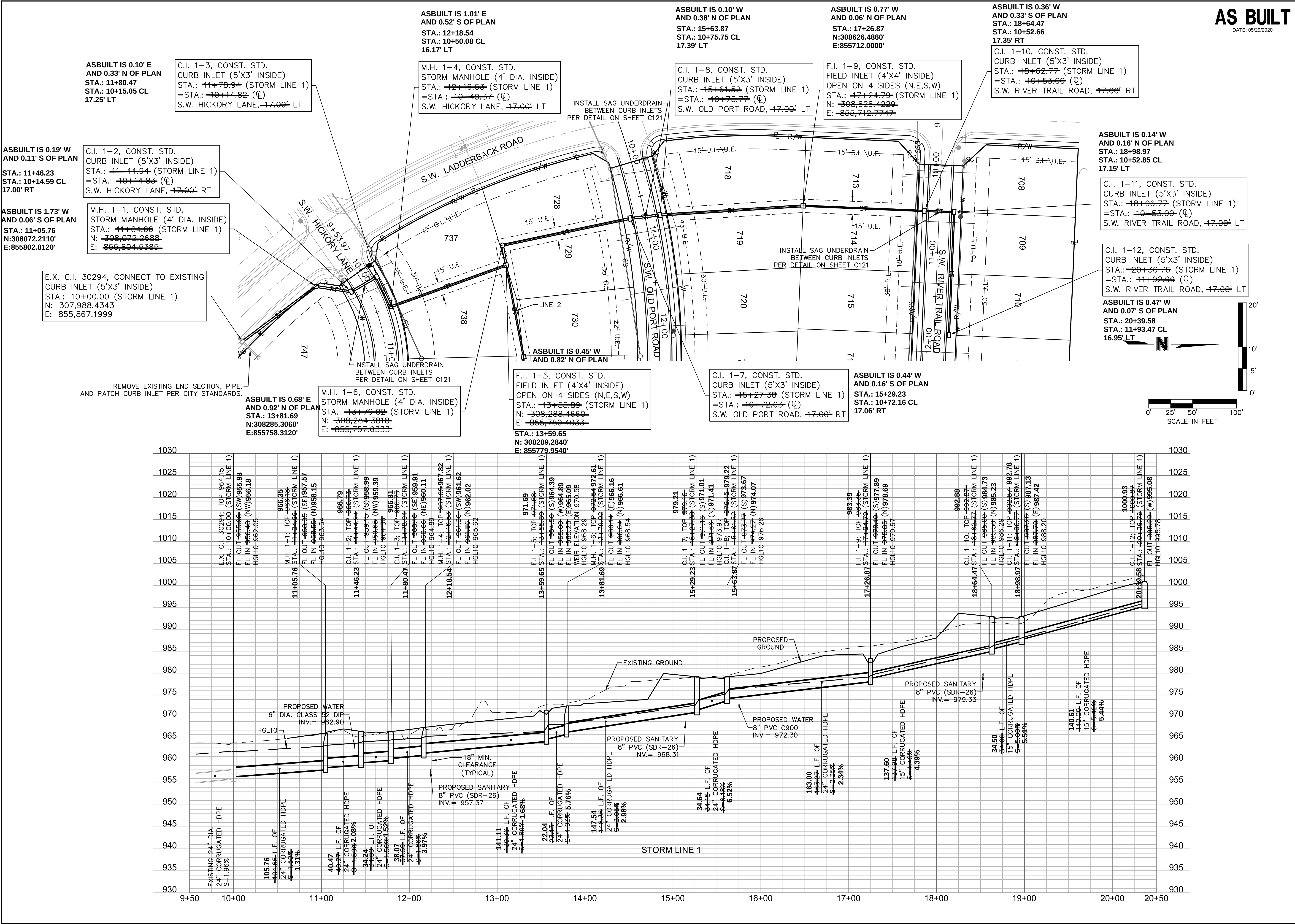
1301 EURLINGTON, SUITE 100

NORTH KANSAS CITY, MO 64116

TEL 816.587.4320

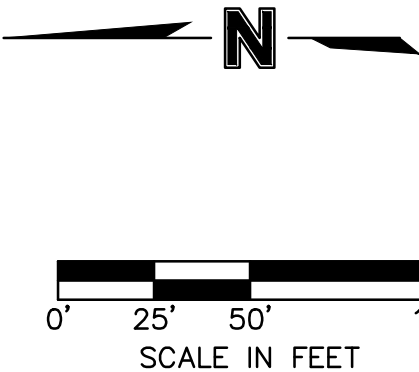
FAX 816.587.1393

www.olsonassociates.com



AS BUILT
DATE: 05/29/2020

STORM SEWER PLAN & PROFILE STREET, STORM & EROSION CONTROL PLANS		2018	
EAGLE CREEK SIXTEENTH PLAT		LEES SUMMIT, MO	
SHEET C111		REVISIONS	
NO. REV.	DATE	REVISIONS DESCRIPTION	BY
1	06/12/2018	CITY COMMENTS - 06/17/2018	
drawn by: B.B.K. checked by: N.D.H. designed by: B.P.K. QA/QC by: M.G.D. project no.: 018-0847 date: 2018.04.20		NICHOLAS D. HEISER PE-2013000555 06/01/2020	



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. PLAT IS LOCATED OUTSIDE OF ANY REQUIRED BUFFER ZONES FOR NATURAL STREAMS.

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

STATE OF MISSOURI
NICHOLAS D. HEISER
NUMBER PE-2013000555
PROFESSIONAL ENGINEER
06/01/2020

BY
REVISIONS DESCRIPTION
DATE
NO. REV. 1 06/18/2018 CITY COMMENTS - 06/17/2018

DRAINAGE PLAN
STREET, STORM & EROSION CONTROL PLANS
EAGLE CREEK
SIXTEENTH PLAT
LEE'S SUMMIT, MO

drawn by: B.P.K.
checked by: N.D.H.
designed by: B.P.K.
QA/QC by: M.G.D.
project no.: 018-0847
date: 2018.04.20

SHEET
C113

REVISIONS
2018

OLSSON ASSOCIATES
INC Certificate of Authority #0000000000
1301 BURLINGTON, SUITE 100
NORTH KANSAS CITY, MO 64116
TEL 816.587.4320
FAX 816.587.1393
www.olsonassociates.com

DWG: F:\2018\0501-1000\018-0847\40-Design\AutoCAD\Final Plans\Sheets\GNC\01_Street & Storm_34x22\C_TAB01_80847.dwg
DATE: Jul 12, 2018 10:27am
USER: bkoleci

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)
E.X. C.I. 30294	SAG	3.14	0.00	3.14	0.80	19.40	15.52	3.14	0.00	100.00%	...	...	...
C.I. 1-2	SAG	1.87	0.00	1.87	0.80	19.40	15.52	1.87	0.00	100.00%	...	...	...
C.I. 1-3	SAG	4.09	0.00	4.09	0.80	19.40	15.52	4.09	0.00	100.00%	...	...	...
F.I. 1-5	SAG	3.34	0.00	3.34	0.80	18.67	14.93	3.34	0.00	100.00%	...	...	0.16
C.I. 1-7	SAG	2.47	0.00	2.47	0.80	23.28	18.63	2.47	0.00	100.00%	...	...	...
C.I. 1-8	SAG	7.77	0.45	8.22	0.80	23.28	18.63	8.22	0.00	100.00%	...	...	...
F.I. 1-9	SAG	4.39	0.00	4.39	0.80	18.67	14.93	4.39	0.00	100.00%	...	...	0.19
C.I. 1-10	GRADE	1.70	0.00	1.70	1.00	1.25	1.25	1.25	0.45	73.44%	0.12	6.07	...
C.I. 1-11	GRADE	0.56	0.82	1.39	1.00	1.08	1.08	1.08	0.31	77.68%	0.11	5.63	...
C.I. 1-12	GRADE	2.37	0.00	2.37	1.00	1.55	1.55	1.55	0.82	65.29%	0.14	6.88	...
F.I. 2-1	SAG	1.95	0.00	1.95	1.80	97.00	174.60	1.95	0.00	100.00%	...	...	0.11
F.I. 2-2	SAG	2.29	0.00	2.29	2.80	208.71	584.39	2.29	0.00	100.00%	...	...	0.12
Notes:													
1. 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.													
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)
EX. C.I. 30294 (L)	0.20	0.51	5.00	7.35	1.00	0.75
EX. C.I. 30294 (R)	0.39	0.51	9.57	6.17	1.00	1.22
E.X. C.I. 30294	1.02	0.51	10.15	6.05	1.00	3.14
C.I. 1-2(L)	0.33	0.51	5.05	7.34	1.00	1.25
C.I. 1-2(R)	0.00	0.51	5.00	7.35	1.00	0.00
C.I. 1-2(B)	0.17	0.51	5.00	7.35	1.00	0.62
C.I. 1-2	0.50	0.51	5.05	7.34	1.00	1.87
C.I. 1-3(L)	0.27	0.51	5.36	7.24	1.00	1.00
C.I. 1-3(R)	0.52	0.51	6.07	7.04	1.00	1.86
C.I. 1-3B)	0.35	0.51	5.00	7.35	1.00	1.32
C.I. 1-3	1.14	0.51	6.07	7.04	1.00	4.09
F.I. 1-5	0.89	0.51	5.00	7.35	1.00	3.34
C.I. 1-7(L)	0.54	0.51	8.09	6.51	1.00	1.80
C.I. 1-7(R)	0.03	0.51	5.00	7.35	1.00	0.10
C.I. 1-7(B)	0.17	0.51	5.00	7.35	1.00	0.65
C.I. 1-7	0.74	0.51	8.09	6.51	1.00	2.47
C.I. 1-8(L)	0.49	0.51	6.59	6.89	1.00	1.72
C.I. 1-8(R)	1.89	0.51	13.86	5.36	1.00	5.18
C.I. 1-8(B)	0.46	0.51	5.28	7.27	1.00	1.70
C.I. 1-8	2.84	0.51	13.86	5.36	1.00	7.77
F.I. 1-9	1.17	0.51	5.00	7.35	1.00	4.39
C.I. 1-10	0.51	0.51	8.02	6.53	1.00	1.70
C.I. 1-11	0.15	0.51	5.00	7.35	1.00	0.56
C.I. 1-12	0.77	0.51	10.15	6.05	1.00	2.37
F.I. 2-1	0.52	0.51	5.00	7.35	1.00	1.95
F.I. 2-2	0.61	0.51	5.00	7.35	1.00	2.29

STORM SEWER DESIGN CALCULATION (10-YR)																
Upstream Structure	Downstream Structure	Line Length (ft)	Upstream Invert (ft)	Downstream Invert (ft)	Pipe Slope (%)	Pipe Size (in)	Manning's n	Total Flow (cfs)	Upstream Velocity (ft/s)	Downstream Velocity (ft/s)	Pipe Capacity (cfs)	Upstream Depth (ft)	Downstream Depth (ft)	Upstream Struct. HGL (ft)	Downstream Struct. HGL (ft)	Upstream Top Elev. (ft)
EX. C.I. 32931	EX. F.E.S.	58.700	954.75	953.78	1.65	24	0.01	36.59	11.77	11.68	37.80	1.93**	1.97	956.68 j	955.75	964.13
EX. C.I. 30294	EX. C.I. 32931	42.218	955.98	955.15	1.97	24	0.01	35.19	11.20	11.20	41.23	2.00	2.00	961.93	961.32	964.15
MH 1-1	EX. C.I. 30294	104.665	958.05	956.48	1.50	24	0.01	32.05	10.20	10.20	36.01	2.00	2.00	963.30	962.05	966.18
C.I. 1-2	MH 1-1	40.273	959.15	958.55	1.49	24	0.01	32.05	10.20	10.20	35.89	2.00	2.00	964.02	963.54	966.73
C.I. 1-3	C.I. 1-2	34.002	960.16	959.65	1.50	24	0.01	30.18	9.61	9.61	36.01	2.00	2.00	964.72	964.36	966.73
MH. 1-4	C.I. 1-3	37.586	961.36	960.66	1.86	24	0.01	26.09	8.30	8.31	40.13	2.00	2.00	965.19	964.89	967.65
F.I. 1-5	MH. 1-4	139.359	964.50	961.86	1.89	24	0.01	26.09	8.30	8.31	40.47	2.00	2.00	966.72	965.62	971.58
MH. 1-6	F.I. 1-5	23.133	966.14	965.00	4.93	24	0.01	18.51	5.89	5.89	65.27	2.00	2.00	968.38	968.29	972.54
C.I. 1-7	MH. 1-6	148.357	971.16	966.64	3.05	24	0.01	18.51	7.10	6.00	51.32	1.55**	1.90	972.71 j	968.54	979.16
C.I. 1-8	C.I. 1-7	34.146	973.77	971.66	6.18	24	0.01	16.04	6.61	5.11	73.09	1.44**	2.00	975.21 j	973.97	979.15
F.I. 1-9	C.I. 1-8	163.268	978.10	974.27	2.35	24	0.01	8.27	5.11	2.63	45.03	1.02**	1.99	979.12 j	976.26	983.35
C.I. 1-10	F.I. 1-9	137.977	985.00	978.85	4.46	15	0.01	3.88	4.71	4.56	17.72	0.80**	0.82	985.80 j	979.67	992.87
C.I. 1-11	C.I. 1-10	34.000	987.20	985.50	5.00	15	0.01	2.63	4.08	3.20	18.77	0.65**	0.79	987.85 j	986.29	992.87
C.I. 1-12	C.I. 1-11	139.998	995.29	987.70	5.42	15	0.01	1.55	3.45	3.39	19.55	0.49**	0.50	995.78 j	988.20	1000.87
F.I. 2-1	C.I. 1-12	105.979	967.37	965.25	2.00	15	0.01	4.24	3.57	3.46	11.87	1.16	1.25	968.53	968.29	974.44
F.I. 2-2	F.I. 2-1	133.293	970.66	967.87	2.09	15	0.01	2.29	3.90	3.14	12.15	0.60**	0.72	971.26 j	968.59	978.04
Notes: j - Line contains hyd. jump; ** - critical depth																

Inlet Design Table													
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)
E.X. C.I. 30294	SAG	5.56	0.00	5.56	0.80	19.40	15.52	5.56	0.00	100.00%	...	...	...
C.I. 1-2	SAG	3.28	0.00	3.28	0.80	19.40	15.52	3.28	0.00	100.00%	...	...	...
C.I. 1-3	SAG	7.19	0.00	7.19	0.80	19.40	15.52	7.19	0.00	100.00%	...	...	...
F.I. 1-5	SAG	5.86	0.00	5.86	0.80	18.67	14.93	5.86	0.00	100.00%	...	...	0.23
C.I. 1-7	SAG	4.35	0.00	4.35	0.80	23.28	18.63	4.35	0.00	100.00%	...	...	...
C.I. 1-8	SAG	13.78	1.23	15.01	0.80	23.28	18.63	15.01	0.00	100.00%	...	...	...
F.I. 1-9	SAG	7.70	0.00	7.70	0.80	18.67	14.93	7.70	0.00	100.00%	...	...	0.28
C.I. 1-10	GRADE	2.99	0.00	2.99	1.00	1.76	1.76	1.76	1.23	58.94%	0.15	7.51	...
C.I. 1-11	GRADE	0.99	2.14	3.13	1.00	1.80	1.80	1.80	1.33	57.65%	0.15	7.64	...
C.I. 1-12	GRADE	4.20	0.00	4.20	1.00	2.05	2.05	2.05	2.14	48.94%	0.17	8.52	...
F.I. 2-1	SAG	3.42	0.00	3.42	1.80	97.00	174.60	3.42	0.00	100.00%	...	...	0.16
F.I. 2-2	SAG	4.01	0.00	4.01	2.80	208.71	584.39	4.01	0.00	100.00%	...	...	0.18
Notes:													
1. 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.													
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						
100 Year Return Frequency						
Inlet ID	Drainage Area	C	Tc	i	K	Peak Flow
	(ac)		(min)	(in/hr)		(cfs)
EX. C.I. 30294 (L)	0.20	0.51	5.00	10.32	1.25	1.31
EX. C.I. 30294 (R)	0.39	0.51	9.57	8.72	1.25	2.15
E.X. C.I. 30294	1.02	0.51	10.15	8.55	1.25	5.56
C.I. 1-2(L)	0.33	0.51	5.05	10.30	1.25	2.19
C.I. 1-2(R)	0.00	0.51	5.00	10.32	1.25	0.00
C.I. 1-2(B)	0.17	0.51	5.00	10.32	1.25	1.10
C.I. 1-2	0.50	0.51	5.05	10.30	1.25	3.28
C.I. 1-3(L)	0.27	0.51	5.36	10.17	1.25	1.76
C.I. 1-3(R)	0.52	0.51	6.07	9.90	1.25	3.26
C.I. 1-3B)	0.35	0.51	5.00	10.32	1.25	2.31
C.I. 1-3	1.14	0.51	6.07	9.90	1.25	7.19
F.I. 1-5	0.89	0.51	5.00	10.32	1.25	5.86
C.I. 1-7(L)	0.54	0.51	8.09	9.18	1.25	3.17
C.I. 1-7(R)	0.03	0.51	5.00	10.32	1.25	0.18
C.I. 1-7(B)	0.17	0.51	5.00	10.32	1.25	1.15
C.I. 1-7	0.74	0.51	8.09	9.18	1.25	4.35
C.I. 1-8(L)	0.49	0.51	6.59	9.70	1.25	3.03
C.I. 1-8(R)	1.89	0.51	13.86	7.61	1.25	9.19
C.I. 1-8(B)	0.46	0.51	5.28	10.21	1.25	2.98
C.I. 1-8	2.84	0.51	13.86	7.61	1.25	13.78
F.I. 1-9	1.17	0.51	5.00	10.32	1.25	7.70
C.I. 1-10	0.51	0.51	8.02	9.20	1.25	2.99
C.I. 1-11	0.15	0.51	5.00	10.32	1.25	0.99
C.I. 1-12	0.77	0.51	10.15	8.55	1.25	4.20
F.I. 2-1	0.52	0.51	5.00	10.32	1.25	3.42
F.I. 2-2	0.61	0.51	5.00	10.32	1.25	4.01

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DATE: May 31, 2020 10:28pm
USER: nheiser



AS BUILT

DATE: 05/29/2020

- 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 LOCATION 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. PLAT IS LOCATED OUTSIDE OF ANY REQUIRED BUFFER ZONES FOR NATURAL STREAMS.
 4. MBOE ELEVATIONS HAVE BEEN PROVIDED PER LOT LINES. INTERPOLATION WILL BE ALLOWED BETWEEN THE RIGHT AND LEFT SIDE 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

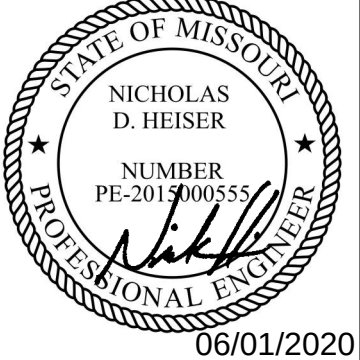
LOT TYPES:
S - STANDARD
DL - DAYLIGHT
WO - WALKOUT

LEGEND	
	100 FINISHED INDEX CONTOURS
	100 FINISHED INTERMEDIATE CONTOURS
	RIDGE LINE
	A DRAINAGE AREA
	C RUNOFF COEFFICIENT
	C.I. 0-0 STORM STRUCTURE NUMBER

Lot	Rear Left MLO	Rear Right MLO	Front Left MLO	Front Right MLO
708	984.14	991.23	990.46	993.63
709	991.23	995.31	993.63	997.83
710	995.31	999.43	997.83	1001.63
711	999.43	1003.97	1001.63	1003.67
712	1003.97	1007.53	1003.67	1005.12
713	984.70	985.26	993.62	990.45
714	986.80	984.70	997.81	993.62
715	988.90	986.80	1001.60	997.81
716	991.00	988.90	1003.62	1001.60
717	996.10	991.00	1005.06	1003.62
718	984.70	984.70	982.65	980.91
719	984.70	984.70	980.91	980.68
720	986.80	985.89	980.68	983.21
721	985.89	988.63	983.21	986.45
722	988.63	991.86	986.45	989.68
723	991.86	993.62	989.68	991.44
724	993.62	994.73	991.44	992.55
725	994.73	995.80	992.55	993.62
726	995.80	995.80	993.62	993.62
727	995.80	994.69	993.62	992.51
728	973.15	974.60	979.92	980.66
729	974.20	973.15	980.93	979.92
730	975.77	974.20	984.30	980.93
731	977.50	975.77	988.01	984.30
732	979.36	977.50	990.66	988.01
733	981.25	979.36	991.93	990.66
734	984.48	981.25	993.04	991.93
735	983.35	984.48	993.88	993.04
736	982.41	983.35	991.98	993.88
737	974.60	973.01	971.12	970.22
738	973.01	975.77	970.22	970.86
739	975.77	977.78	970.86	975.26
740	977.78	979.70	975.26	979.75
741	979.70	984.48	979.75	982.89
742	984.48	982.41	982.89	984.66
743	980.94	977.93	984.66	985.88
744	974.21	971.44	985.88	983.98
745	971.44	972.44	983.98	981.05
746	972.44	971.18	981.05	973.74
747	971.18	965.58	973.74	967.82

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

MOLSSON ASSOCIATES



BY		REVISIONS DESCRIPTION	
NO.	REV.	DATE	
1	06/15/2018	CITY COMMENTS - 05/17/2018	
2	07/19/2018	CITY COMMENTS - 07/10/2018	
3	07/31/2018	CITY COMMENTS - 07/23/2018	
4	08/07/2018	UPDATE MLO TABLE & ADD BERM ELEVATIONS	

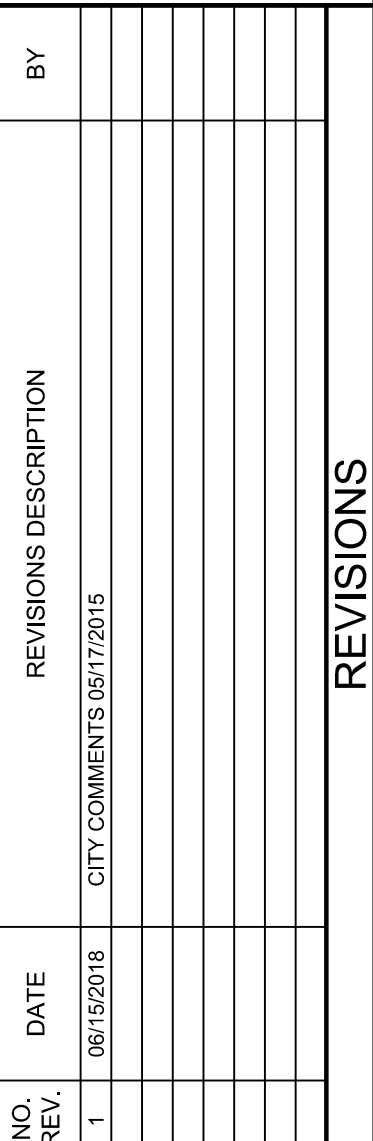
MASTER DRAINAGE PLAN STREET, STORM & EROSION CONTROL PLANS		EAGLE CREEK SIXTEENTH PLAT	
LEE'S SUMMIT, MO		2018	

drawn by: B.P.K.
checked by: N.D.H.
designed by: B.P.K.
QA/QC by: M.G.D.
project no.: 018-0847
date: 2018.04.20

SHEET
C115

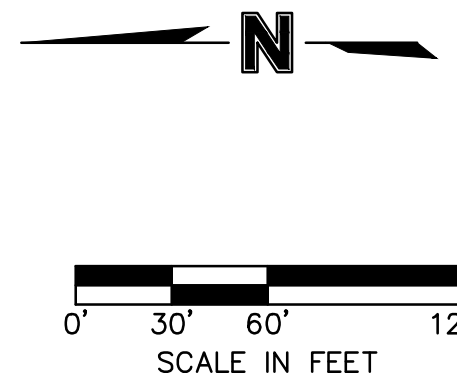
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EAGLE CREEK SIXTEENTH PLAT	2018
LEE'S SUMMIT, MO	

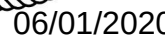
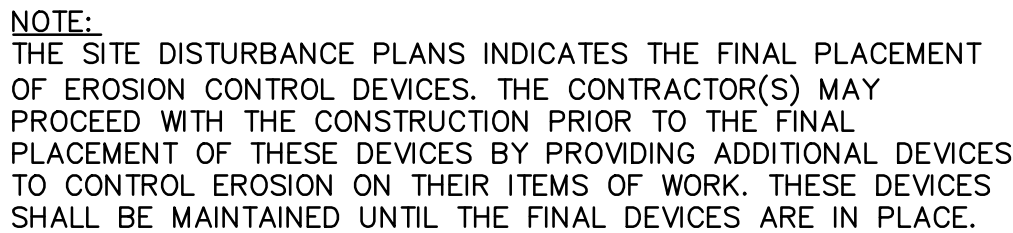
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LEGEND	
PHASE 1	
 SF 	SILT FENCE
	TEMPORARY STONE CONSTRUCTION ENTRANCE

TEMPORARY SEDIMENT TRAP		1
POND AND PRINCIPAL SPILLWAY DATA:		
	DAM TOP ELEVATION	975.00
	EMERGENCY SPILLWAY ELEVATION	974.00
	WET STORAGE VOLUME ELEVATION	972.26
	CLEANOUT ELEVATION	971.85
	DRY BOTTOM ELEVATION	971.00
	VOL. REQ'D @ 134CY/ACRE	344.38
	VOL. PROVIDED BELOW OUTLET CREST (CY)	529.27
STONE OUTLET DATA:		
	LENGTH (L.) FT.	16.00
	WIDTH (W.) FT.	10
	DRAINAGE AREA (AC)	2.57

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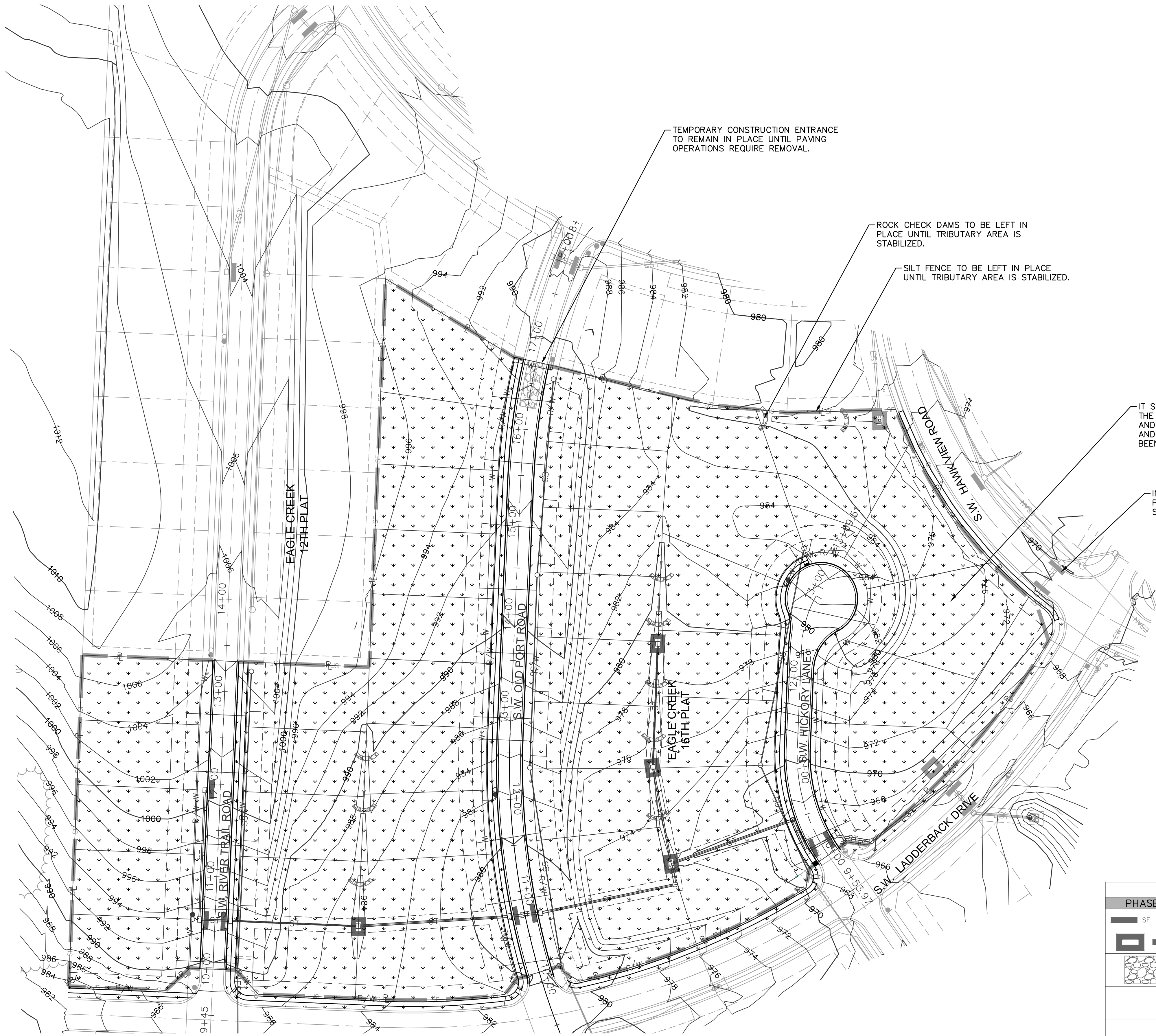


REVISIONS

LEE'S SUMMIT MO

SHEET
C117

USER: bkoleci



GENERAL NOTES:

SEED & MULCH NOTES:
SEEDING SHALL BE DONE BEFORE THE PROPOSED SEEDBED BECOMES ERODED, CRUSTED OVER, OR DRIED OUT AND SHALL NOT BE DONE WHEN THE GROUND IS FROZEN, OR COVERED WITH SNOW. SEED SHALL COMPLY WITH THE REQUIREMENTS OF THE MISSOURI SOIL CONSERVATION AND FEDERAL SEED ACT. ALSO, IT SHALL CONTAIN NO SEED OF ANY PLANT ON THE FEDERAL NOXIOUS WEED LIST. OTHER WEED SEED SHALL NOT EXCEED ONE PERCENT BY WEIGHT OF MIX.

SEED & FERTILIZER RATE:
MIX I - RYE GRASS / BLUE GRASS -----100 LBS. PER. ACRE
MIX II - TALL FESCUE / BLUE GRASS -----195 LBS. PER ACRE
LIME -----2000 LBS. PER ACRE
(50 LBS. PER 1000 SQ. FT.)
FERTILIZER -----800 TO 1200 LBS.
PER ACRE (25 LBS. PER 1000 SQ. FT.)

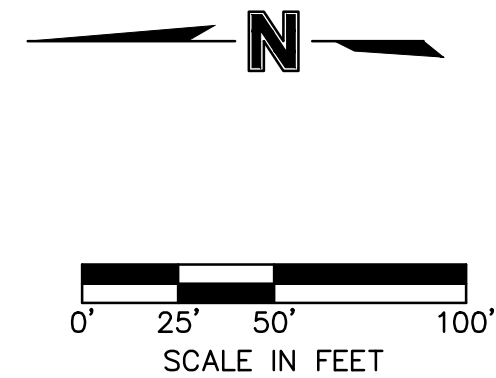
DURING THE DATES DECEMBER 15TH THROUGH MAY 31 ALL LIME, FERTILIZER, SEED, AND MULCH SHALL BE APPLIED TO FINISHED SLOPES OF DISTURBED AREAS. DURING THE MONTHS OF JUNE, JULY, OCTOBER, AND NOVEMBER 1ST THROUGH DECEMBER 15TH, LIME, FERTILIZER, SEED, AND MULCH SHALL BE APPLIED AT THE FOLLOWING RATES:

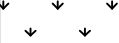
LIME - 100 % OF SPECIFIED QUANTITY
 FERTILIZER - 75 % OF THE SPECIFIED QUANTITY
 SEED - 50 % OF THE SPECIFIED QUANTITY
 MULCH - 100 % OF THE SPECIFIED QUANTITY
 MULCH SHALL BE VEGETATIVE TYPE, CEREAL STRAW FROM STALKS OF WHEAT, RYE, OR BAREY OR STRAW FROM STRAW. THE STRAW SHALL BE FREE OF PROHIBITED WEED SEED AND RELATIVELY FREE OF ALL OTHER NOXIOUS AND UNDESIRABLE SEED. MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE, (70 TO 90 LBS. PER 1000 SQ. FT.). MULCH SHALL BE EMBEDDED BY A MULCH ANCHORING TOOL OR DISK TYPE ROLLER HAVING FLAT SERRATED DISKS SPACED NOT MORE THAN 10 INCHES APART AND CLEANING SCRAPERS SHALL BE PROVIDED.

THE SITE DISTURBANCE PLANS INDICATES THE FINAL PLACEMENT OF EROSION CONTROL DEVICES. THE CONTRACTOR(S) MAY PROCEED WITH THE CONSTRUCTION PRIOR TO THE FINAL PLACEMENT OF THESE DEVICES BY PROVIDING ADDITIONAL DEVICES TO CONTROL EROSION ON THEIR ITEMS OF WORK. THESE DEVICES SHALL BE MAINTAINED UNTIL THE FINAL DEVICES ARE IN PLACE.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SEED AND MULCH TO PREVENT EROSION AND SILTATION ONCE TRACT A HAS BEEN CLEARED AND GRADED.

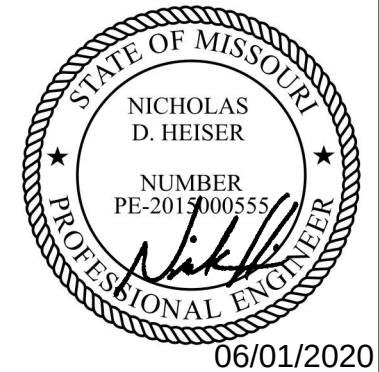
INLET PROTECTION TO BE LEFT IN PLACE UNTIL TRIBUTARY AREA IS STABILIZED.



LEGEND			
PHASE 1	PHASE 2	PHASE 3	
 SF 	 SF 	 SF 	SILT FENCE
 SD 	 SD 	 SD 	STORM DRAIN INLET PROTECTION
			TEMPORARY STONE CONSTRUCTION ENTRANCE
			SEED AND MULCH
			ROCK CHECK DAMS

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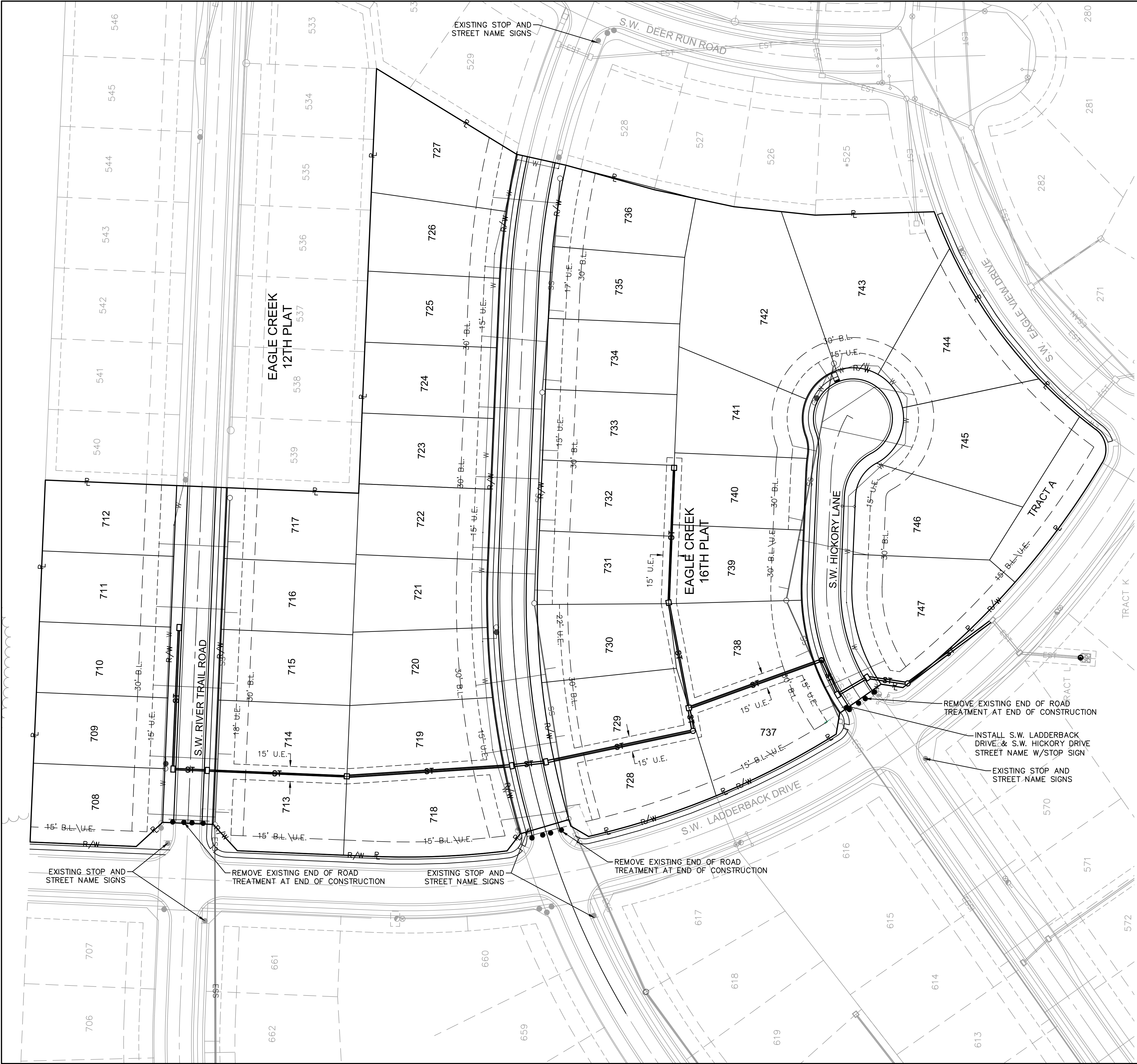
EROSION CONTROL PLAN - PHASE 3
STREET, STORM & EROSION CONTROL PLANS

EAGLE CREEK
SIXTEENTH PLAT

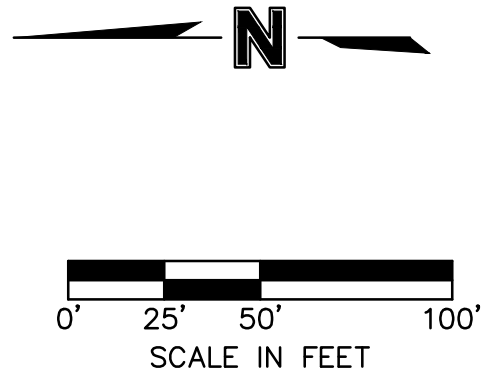
2018

drawn by: B.P.K
checked by: N.D.H.
designed by: B.P.K.
QA/QC by: M.G.D.
project no.: 018-0847
date: 2018.04.20

SHEET
C118

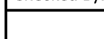


PLAN NOTES:
1. ALL TEMPORARY TRAFFIC CONTROL AND DETOUR SIGNS SHALL BE PLACED ON BREAKAWAY SIGN POSTS.
2. SIGNS SHALL BE INSTALLED PER MUTCD STANDARDS AND GUIDELINES



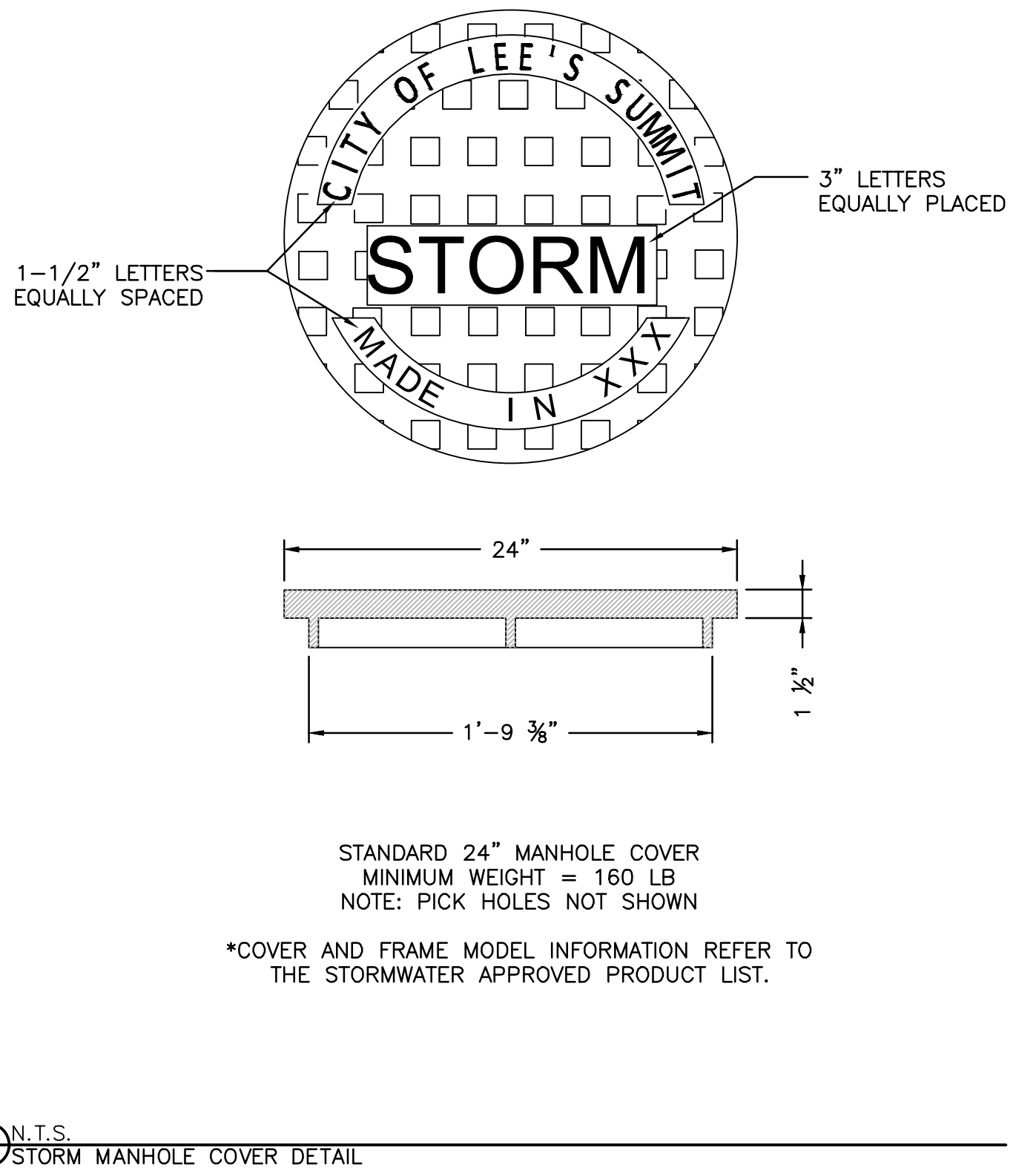
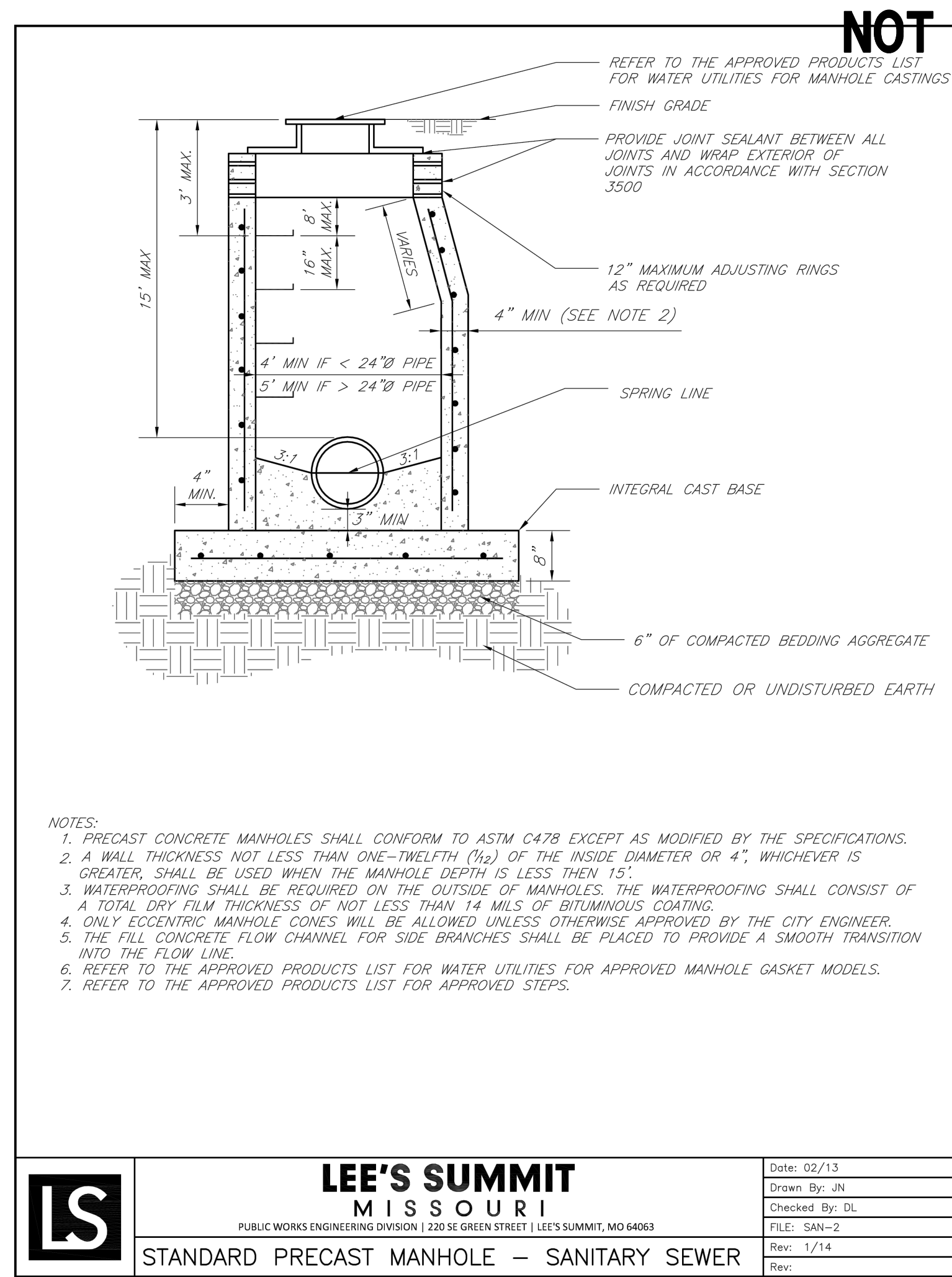
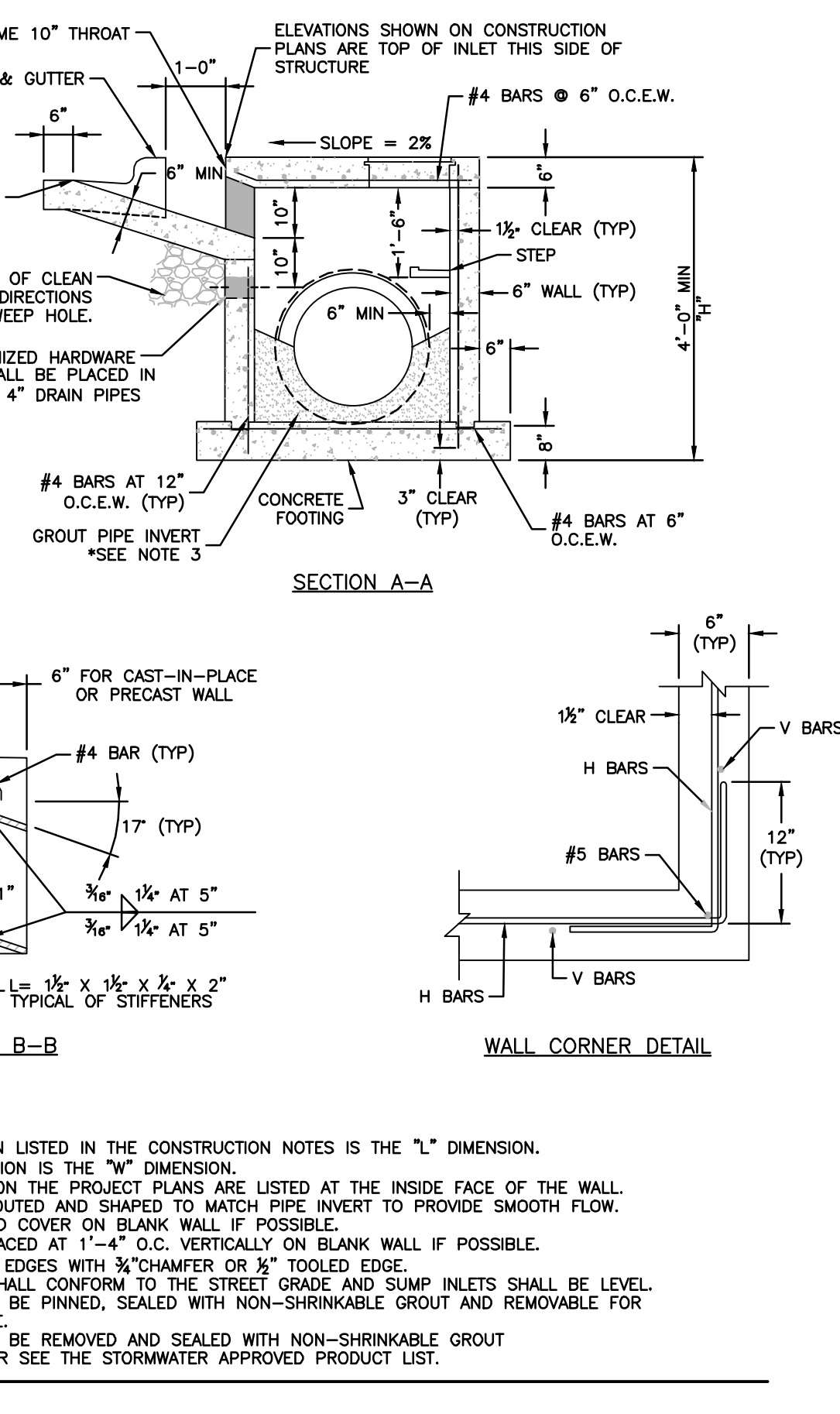
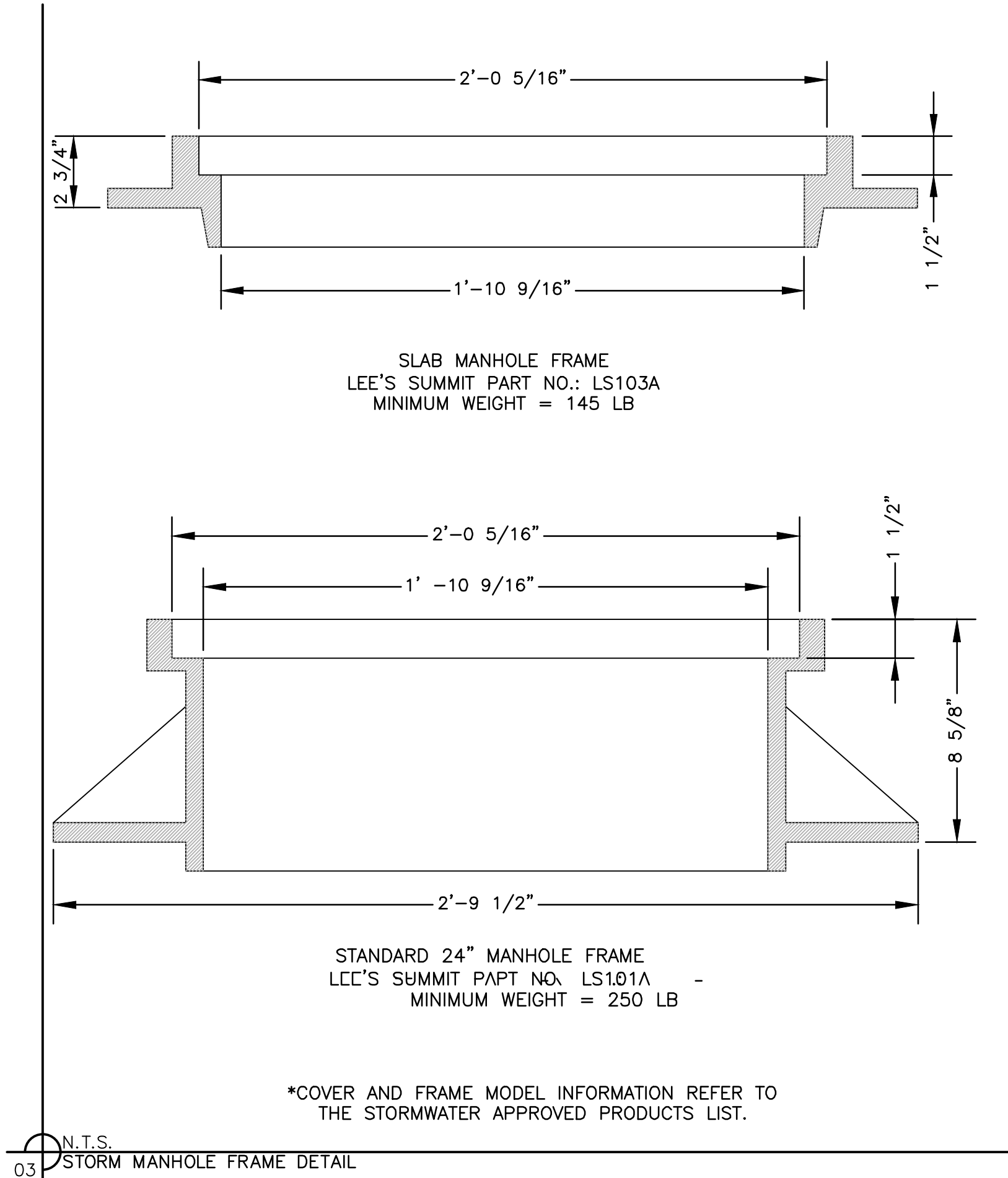
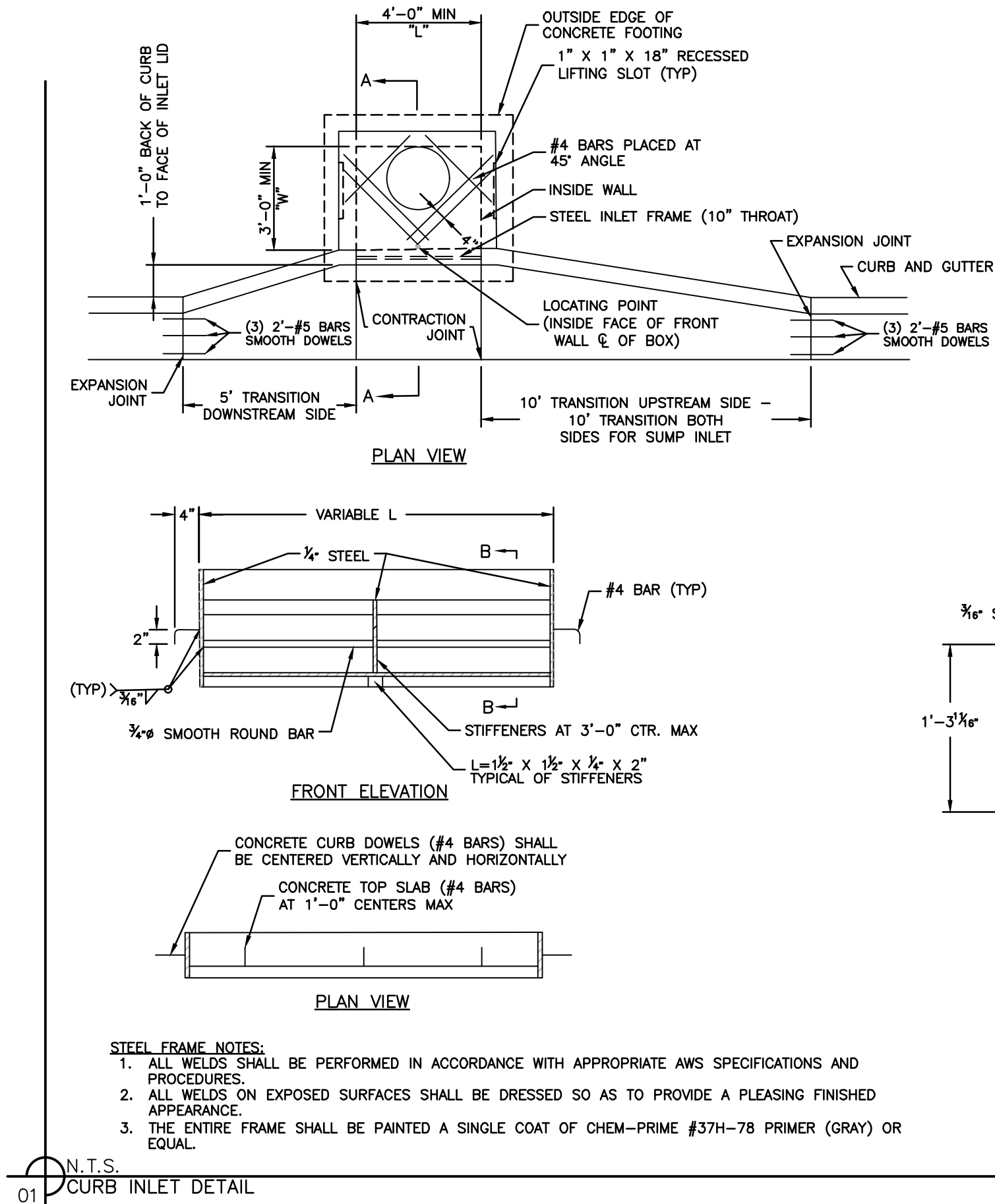
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SIGNAGE PLAN STREET, STORM & EROSION CONTROL PLANS		NO. REV. 1		DATE 06/19/2018	REVISIONS DESCRIPTION	BY
EAGLE CREEK SIXTEENTH PLAT					CITY COMMENTS - 06/17/2018	
LEE'S SUMMIT, MO		2018		REVISIONS		
drawn by: B.P.K. checked by: N.D.H. designed by: B.P.K. QA/QC by: M.G.D. project no.: 018-0847 date: 2018.04.20						
SHEET C119						
		MO Certificate of Authority #001592 1301 EURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 TEL 816.587.4320 FAX 816.587.1393 www.olsonassociates.com				



USER: bkoleci

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DATE: Jul 12, 2018 8:30am



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OLSSON ASSOCIATES

STATE OF MISSOURI
NICHOLAS D. HEISER
NUMBER PE-2013-000555
PROFESSIONAL ENGINEER
06/01/2020

BY: [REDACTED]

REVISIONS DESCRIPTION

NO.	REV.	DATE	CITY COMMENTS
1		06/12/2018	

STORM DETAIL
STREET, STORM & EROSION CONTROL PLANS

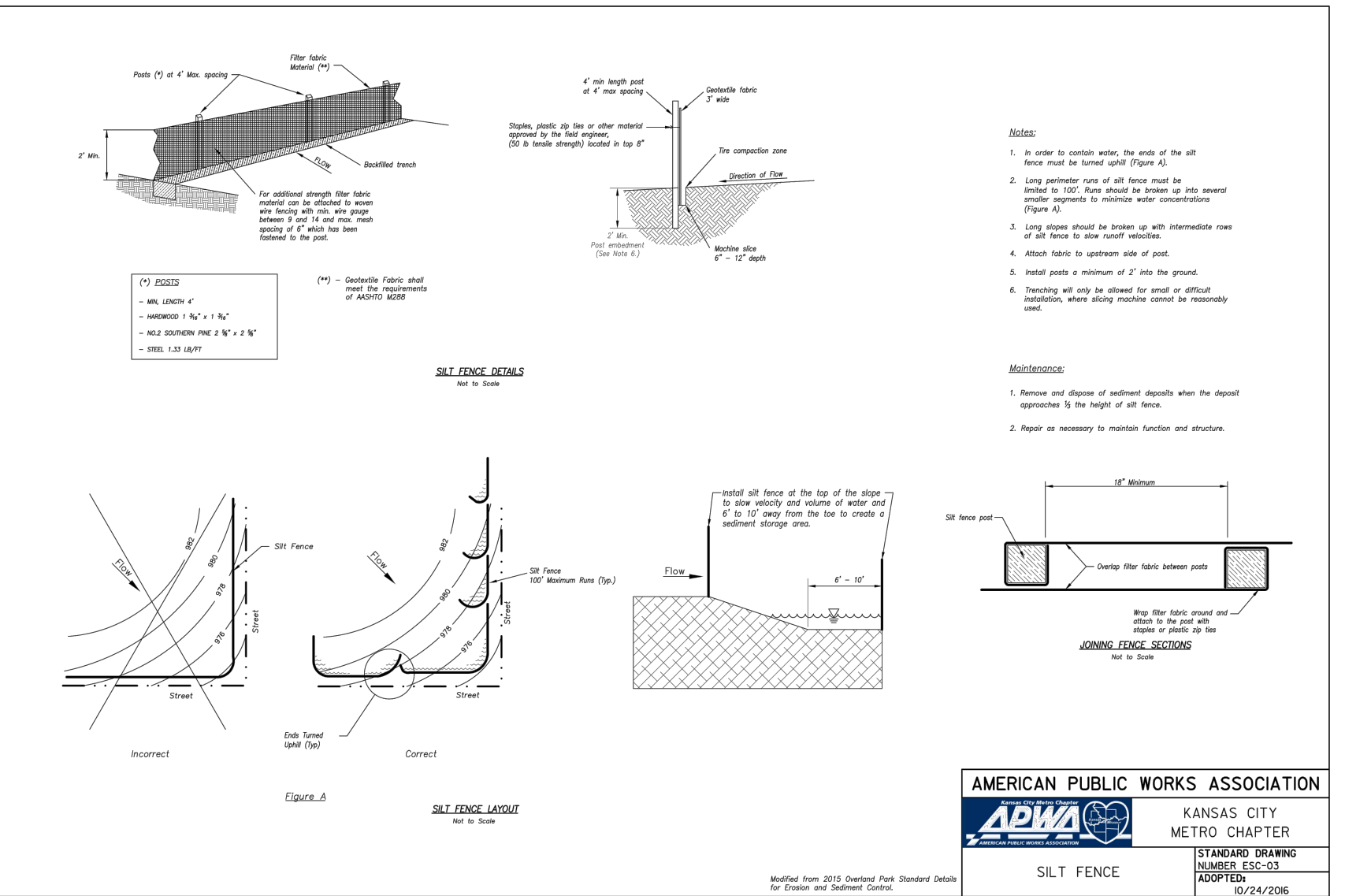
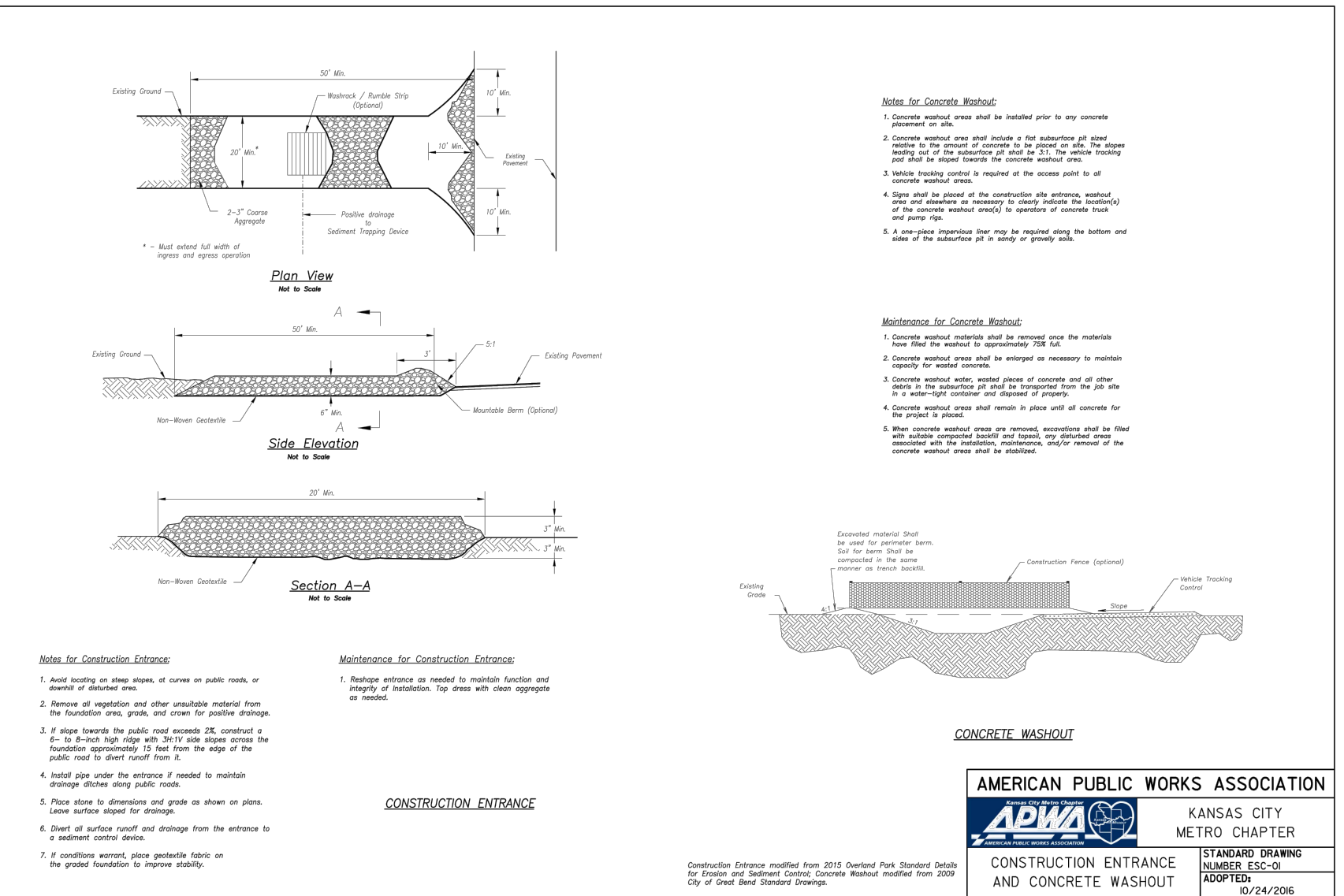
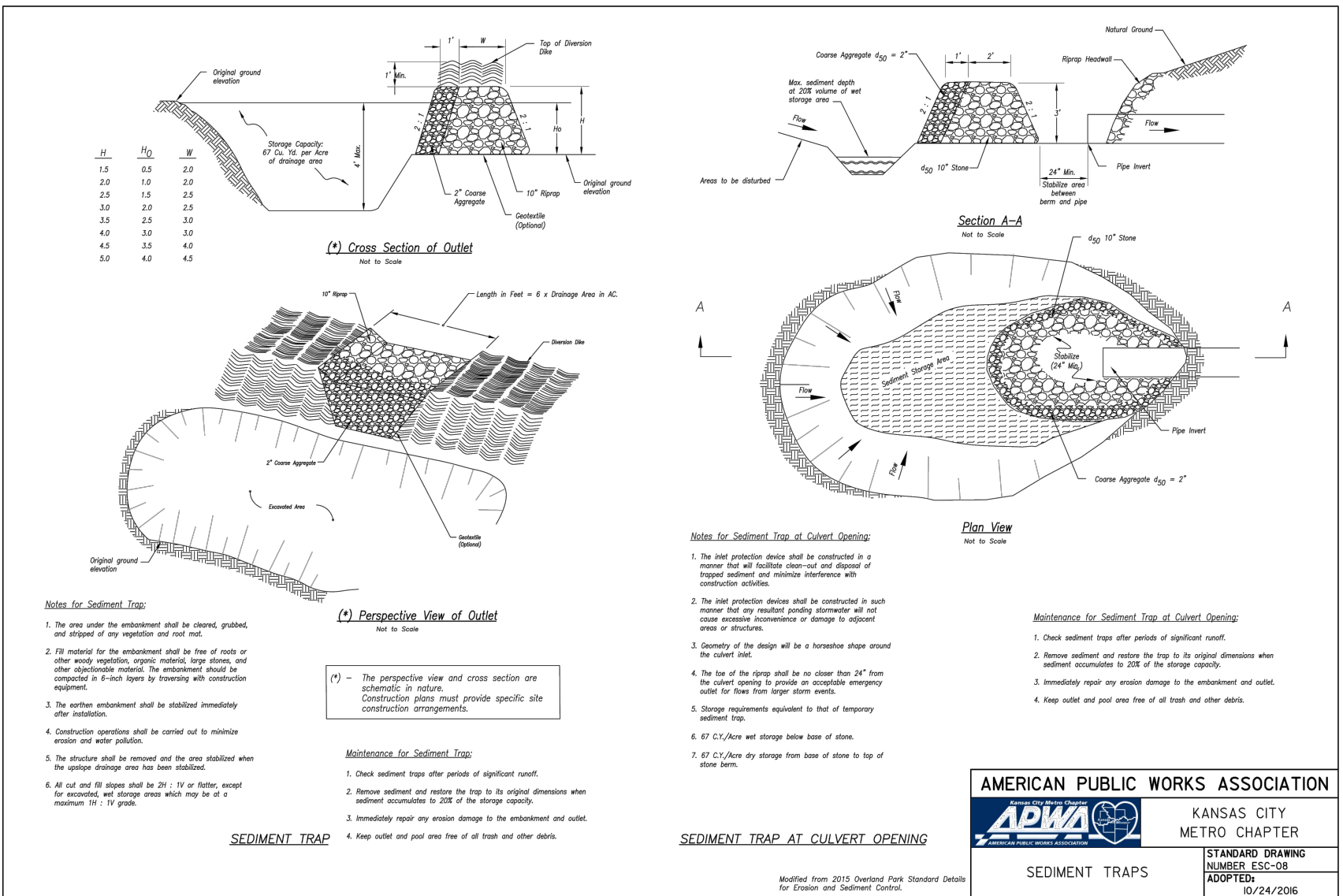
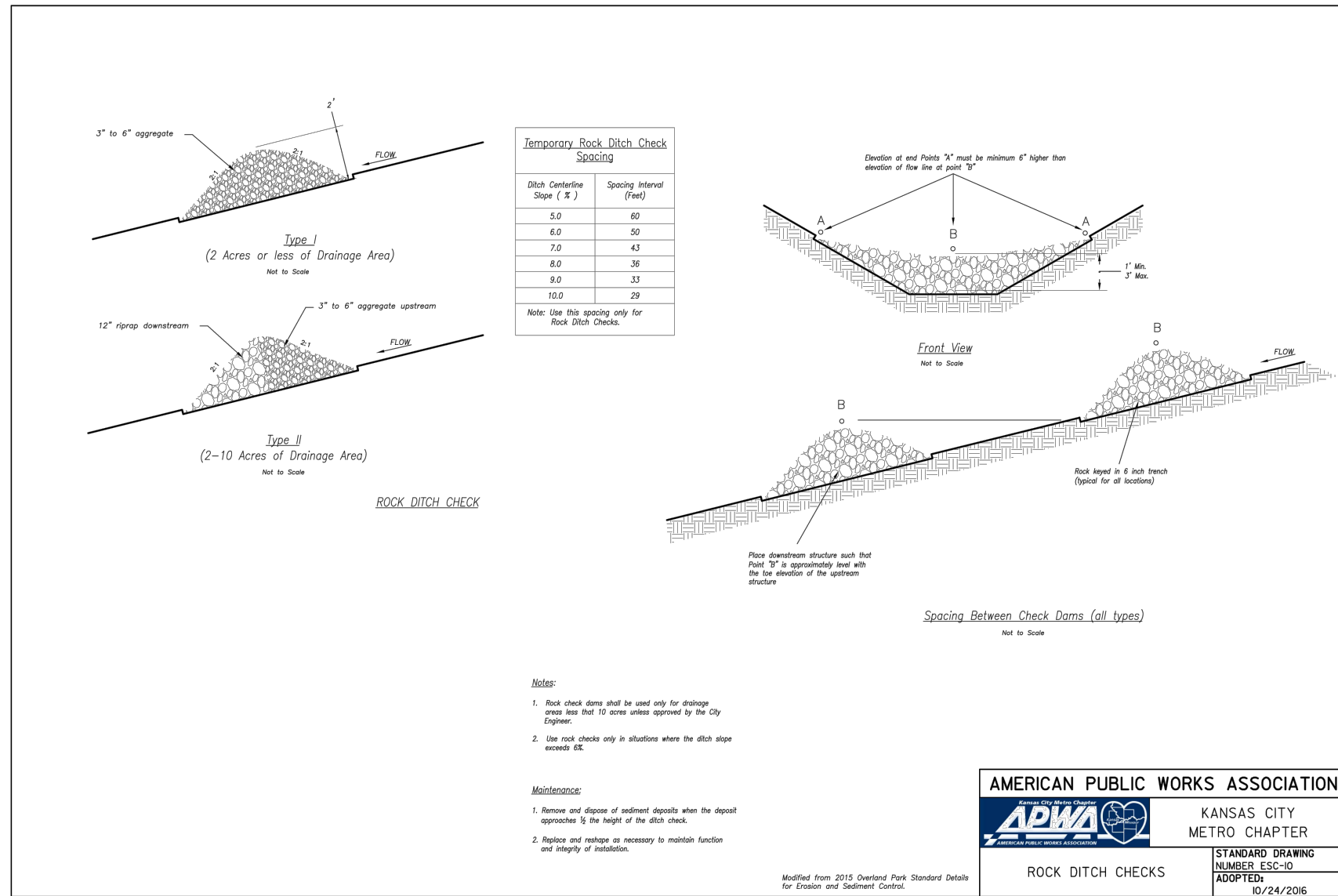
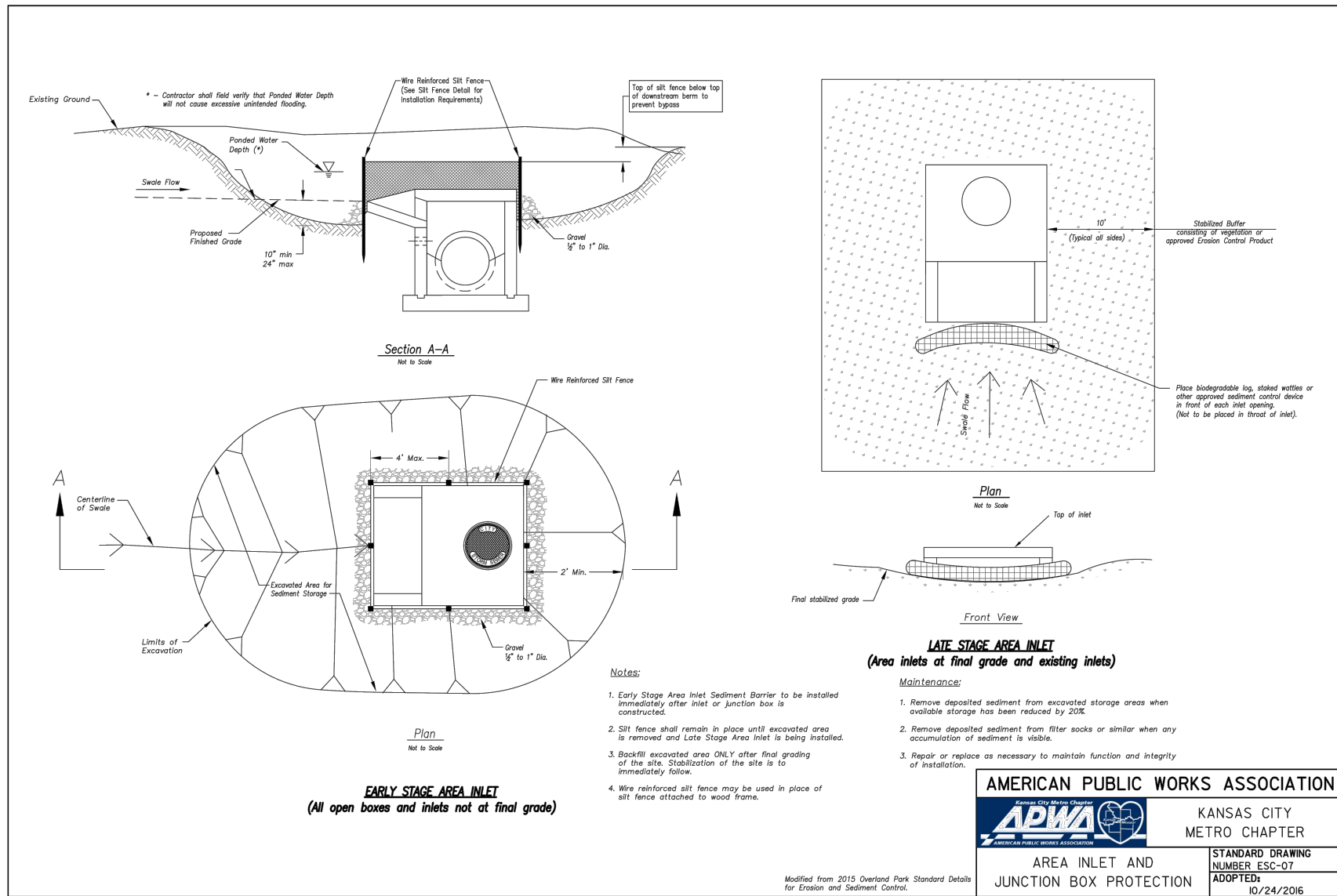
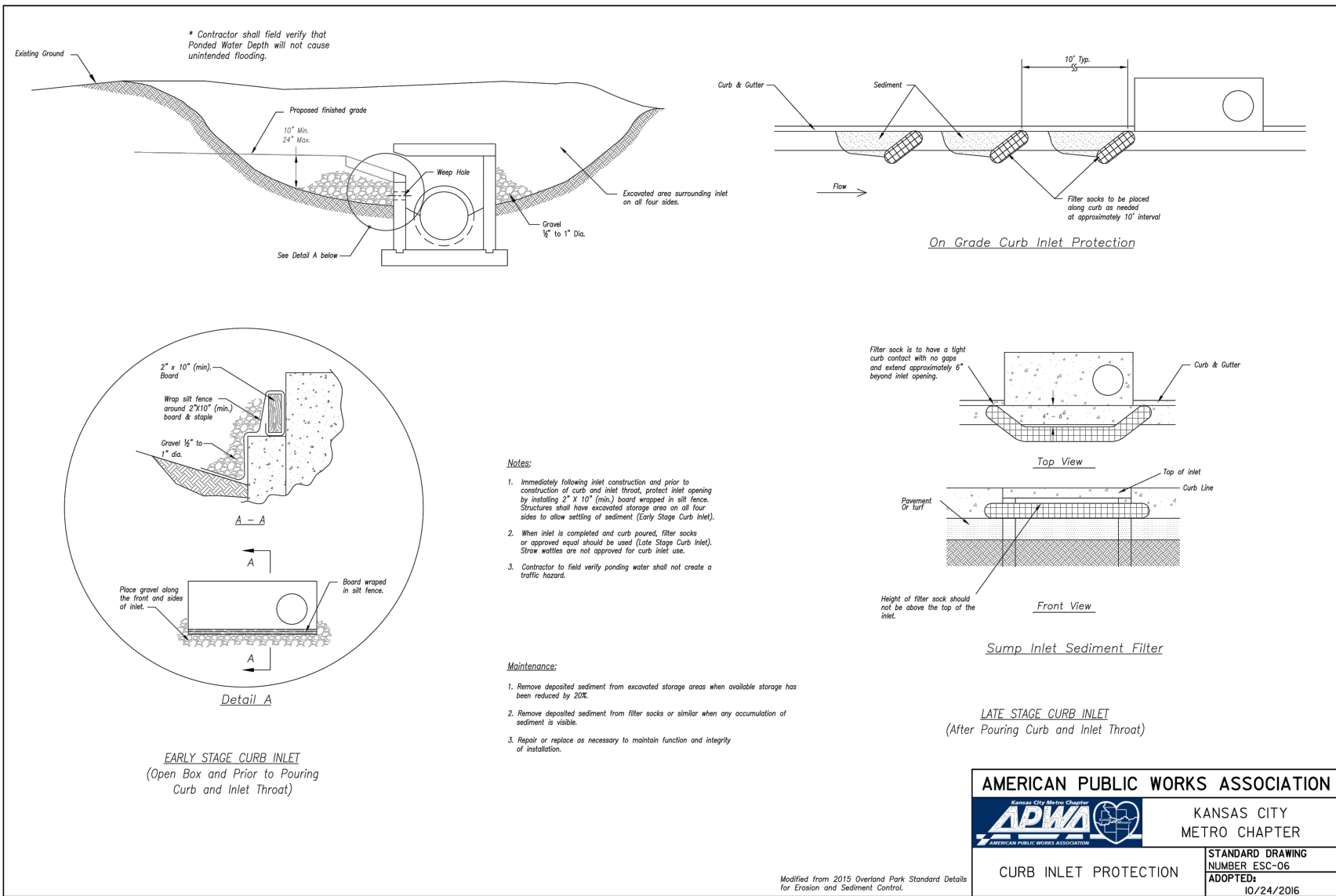
EAGLE CREEK
SIXTEENTH PLAT

LEE'S SUMMIT, MO

18

drawn by: B.P.K.
checked by: N.D.H.
designed by: B.P.K.
QA/QC by: M.G.D.
project no.: 018-0847
date: 2018.04.20

SHEET C122



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NO.	REV.	DATE	REVISIONS DESCRIPTION
1		06/12/2018	CITY COMMENTS - 06/17/2018

NO.	REV.	DATE	REVISIONS DESCRIPTION
1		06/12/2018	CITY COMMENTS - 06/17/2018

drawn by: B.P.K.
checked by: N.D.H.
designed by: B.P.K.
QA/QC by: M.G.D.
project no.: 018-0847
date: 2018.04.20