

Sec. 2, Twp. 47 N., Rge. 32 W. (N.T.S.)

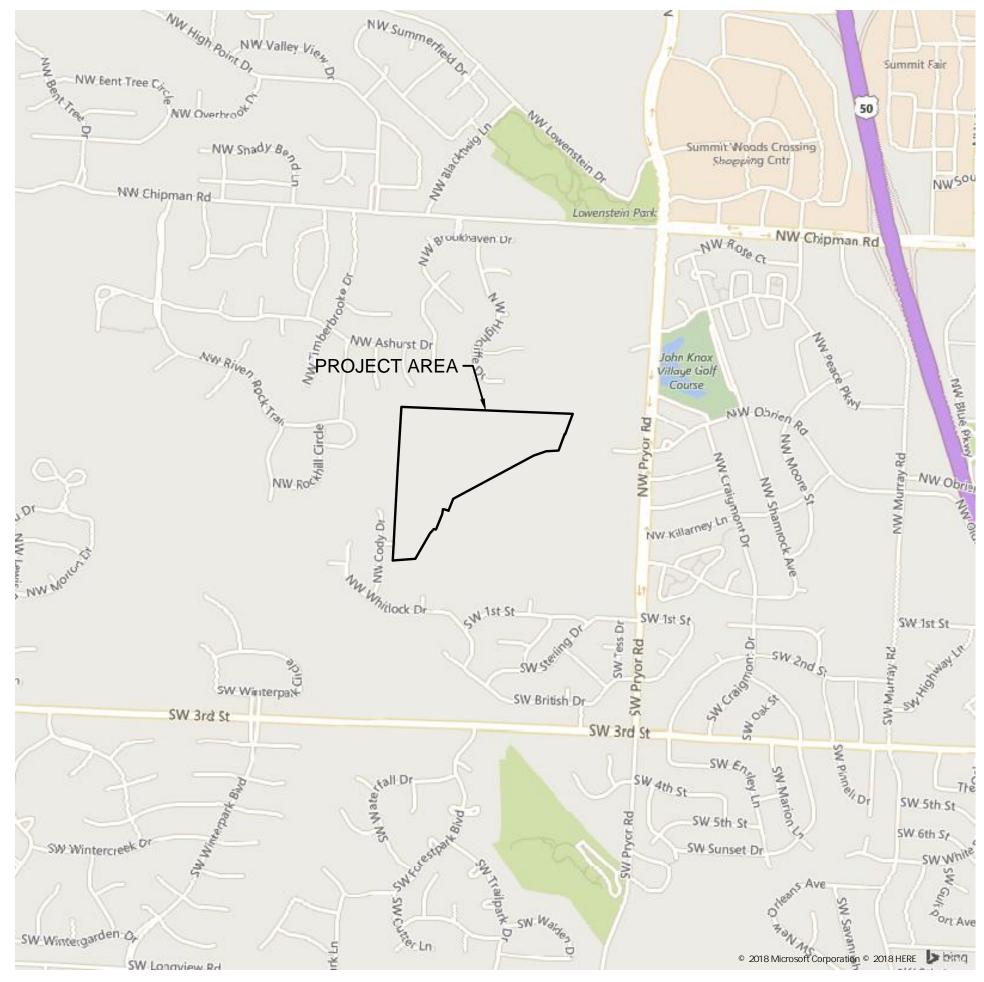
OWNER / DEVELOPER	UTILITY SERVICE NUMBERS
OWNER / DEVELOPER CLAYTON PROPERTIES GROUP, LLC, DBA SUMMIT HOMES 120 SE 30TH STREET LEE'S SUMMIT, MO 64082 CONTACT: VINCENT WALKER PHONE: 816.246.6700 FAX: 816.246.2662	NAME: DEVELOPMENT SERVICES PHONE: 816-969-1200  NAME: LEE'S SUMMIT WATER & SERVICES DEPARTMENT PHONE: 816-969-1940  NAME: SPIRE (MGE)
ENGINEER OLSSON 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: JULIE E SELLERS, P.E. PHONE: 816.361.1177	PHONE: 314-342-0500  NAME: AT&T PHONE: 800-286-8313  NAME: EVERGY PHONE: 816-471-5275
SURVEYOR OLSSON 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: JASON ROUDEBUSH, PLS PHONE: 816.361.1177	NAME: SPECTRUM (TWC) PHONE: 877-772-2253  NAME: GOOGLE FIBER PHONE: 877-454-6959
GEOTECHNICAL ENGINEER OLSSON 1700 E. 123RD ST. OLATHE, KS 66061 CONTACT: JAMES LANDRUM PHONE: 816.829.0078	

NOT FOR CONSTRUCTION REVIEWED FOR CONSTRUCTION



## WOODSIDE RIDGE SECOND PLAT SANITARY SEWER PLANS

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



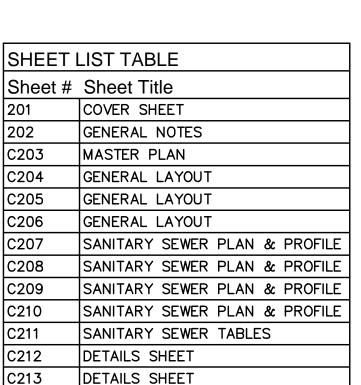
## PROPERTY DESCRIPTION:

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 Roudebush, 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 2,633.21 feet to the Southwest corner of said Southeast Quarter; thence North 03°05'41" East, on the West line of said Southeast Quarter, 1.326.36 feet to the Southwest corner of said Lot 3B, also being the Southwest corner of the North half said Southeast Quarter, also being a point on the Easterly line of STERLING HILLS 5TH PLAT, a subdivision in said Lee's Summit recorded as Instrument Number 11273788 in Book 154 at Page 88 in said Jackson County Recorder of Deeds Office, also being the Southwest corner of proposed WOODSIDE RIDGE 1st Plat, Lots 1 thru 143 Inclusive, and Tracts A, B, C, D, E, F, G and H; thence North 03°05'41" East on said West line and said Easterly line, also being the West line of said Lot 3B, also being the Westerly line of proposed WOODSIDE RIDGE 1ST PLAT, LOTS 1 thru 143 Inclusive, and Tracts A, B, C, D, E, F, G and H, 389.26 feet to the Point of Beginning of the tract of land to be herein described; thence leaving said proposed Westerly line, continuing North 03°05'41" East on said West lines and said Easterly lines, 936.61 feet to the Northeast corner of said STERLING HILLS 5TH PLAT, also being a point on the Easterly line of WINTERSET WOODS — 3RD PLAT, a subdivision in said Lee's Summit recorded as Instrument Number 2003/0002463 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 said WINTERSET WOODS — 3RD PLAT, also being a point on the Southerly line of BROOKRIDGE ESTATES — SECOND PLAT LOTS 39—84, 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 South 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 bearing of North 69°27'24" West with a radius of 425.00 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 of North 68°35'29" West with a radius of 275.00 feet, a central angle of 12°33'32" and an arc distance of 60.28 feet; thence South 08°50'59" West, along said proposed Westerly line, 50.00 feet; thence South 22°12'04" West, along said proposed Westerly line, 173.03 feet; thence North 75°51'31" West, along said proposed Westerly line, 21.43 feet; thence South 41°11'03" West, along said proposed Westerly line, 60.06 feet; thence South 29°55'27" West, along said proposed Westerly line, 306.11 feet; thence South 85°54'26" West, along said proposed Westerly line, 236.75 feet to the Point of Beginning. Containing 1,514,368 square feet or 34.77 acres, more or less.

## **BENCHMARK**

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

ELEVATION: 979.24



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

JULIE E SELLERS, P.E.

CIVIL ENGINEER

MO# 2017000367

7/10/20

DATE

COVER SHEET	<u> </u>	NO. DA	DATE	REVISIONS DESCRIPTION	ВУ
SANITARY SEWER PLANS		1 07/10	07/10/2020	REVISED PER CITY COMMENTS	
TUCOOW TOTAL					
WOODOL NIGOL					
SECOND PLAT					
	999				
MMII, MO	2020			REVISIONS	

S.M.S designed by: C.S.M QA/QC by:\_ C18-1140 2020.07.10

SHEET

2. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CURRENT "CITY STANDARDS" AND SPECIFICATIONS OF THE CPD—DS—LDD, LEE'S SUMMIT, EXCEPT AS NOTED.

3. THE DEVELOPER SHALL PERFORM ALIGNMENT AND GRADE, INFILTRATION — EXFILTRATION, DEFLECTION, SOIL DENSITY, AND MANHOLE TESTS AS CALLED OUT IN SECTION 2500 OF THE CURRENT APWA (AMERICAN PUBLIC WORKS ASSOCIATION) STANDARDS AND SPECIFICATIONS. ANY SECTION OF SEWER FAILING ANY OF THE ABOVE MENTIONED TESTS SHALL BE RETESTED BY THE DEVELOPER AFTER REPLACEMENT OR REPAIR.

4. THE DEVELOPER MAY, AS AN ALTERNATE, SUBSTITUTE A.B.S. OR V.C.P. PIPE FOR P.V.C. PIPE. THE FOLLOWING PIPE DEFLECTION TEST SHALL BE IMPLEMENTED ON A.B.S. AND P.V.C. PIPE:

THE DEVELOPER SHALL PERFORM DIAMETRICAL DEFLECTION TESTS ON FLEXIBLE AND SEMI-FLEXIBLE (I.E. POLY-VINYL-CHLORIDE AND ACRYLONITRILLE BUTADIENE STYRENE) PIPE WHEN USED AS A PUBLIC DIAMETER. ALL TESTS HALL BE CONDUCTED BETWEEN MANHOLES. SEWER TESTS SHALL BE CONDUCTED BETWEEN MANHOLES. SEWER TESTED SHALL BE 100% OF THE TOTAL SEWER INSTALLED. A MANDREL WITH A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE BEING INSTALLED SHALL BE USED.

5. THE DEVELOPER SHALL PERFORM DIAMETRICAL DEFLECTION TESTS ON FLEXIBLE AND SEMI-FLEXIBLE (I.E. POLY-VINYL-CHLORIDE AND ACRYLONITRILE BUTADIENE STYRENE) PIPE WHEN USED AS A PUBLIC SEWER PRIOR TO FINAL ACCEPTANCE. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE 5% OF THE INSIDE DIAMETER. ALL TESTS SHALL BE CONDUCTED BETWEEN MANHOLES. SEWER TESTED SHALL BE 100% OF THE TOTAL SEWER INSTALLED. A MANDREL WITH A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE BEING INSTALLED SHALL BE USED.

6. PRIOR TO ORDERING PRE—CAST STRUCTURES, SHOP DRAWINGS ARE TO BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. THE DESIGN ENGINEER SHALL INDICATE APPROVAL OF THE SHOP DRAWINGS.

7. DEVELOPER SHALL PROVIDE EARTHWORK AND MATERIAL TESTING TO COMPLY WITH THE STANDARD SPECIFICATIONS OF THE CPD-DS-LDD.

8. DURING CONSTRUCTION OF THE PROJECT, THE DEVELOPER SHALL KEEP ONE RECORD COPY OF ALL SPECIFICATIONS, DRAWINGS, ADDENDA, MODIFICATIONS, AND SHOP DRAWINGS AT THE SITE IN GOOD CONDITION. THESE DOCUMENTS SHALL BE ANNOTATED TO SHOW ALL CHANGES MADE DURING CONSTRUCTION. THE EXACT LOCATION OF ALL SEWER WYES, TEES, AND SERVICE LINES SHALL BE RECORD ON THESE DOCUMENTS. AT THE CONCLUSION OF CONSTRUCTION, THESE DOCUMENTS SHALL BE FORWARDED TO THE DESIGN ENGINEER FOR PREPARATION OF AS—BUILT DRAWINGS.

9. THE PROJECT BENCHMARKS AND ALL ELEVATIONS SHOWN ON THE PROFILES ARE N.G.V.D.

10. THE DEVELOPER IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE DEVELOPER MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT IS THE DEVELOPERS RESPONSIBILITY TO RELOCATE AND/OR ADJUST ALL EXISTING UTILITIES, CONFLICT WITH PROPOSED SITE IMPROVEMENTS.

11. THE DEVELOPER SHALL ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC." 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI. THE NAMES AND TELEPHONE NUMBERS OF UTILITY COMPANIES, EVEN IF ONLY REMOTELY INVOLVED WITH THIS HIS PROJECT ARE LISTED UNDER "UTILITY CONTACTS" THIS SHEET.

12. THE DEVELOPER SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).

13. THE SITE PLAN IS BASED ON SURVEY BY OLSSON, COMPLETED 02-24-2020. CONDITIONS ON SITE AT THE TIME OF CONSTRUCTION MAY VARY FROM THE SURVEYED CONDITIONS. DEVELOPER SHALL VERIFY EXISTING SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.

14. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL PERMITS (EXCEPT LAND DISTURBANCE), BONDS, INSURANCE, ETC. AND PAYING ALL FEES. THE COST OF DEVELOPERS BONDS AND INSURANCE AS REQUIRED BY THE CITY OF LEE'S SUMMIT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.

15. DEVELOPER SHALL COMPLY WITH ALL APPLICABLE REGULATIONS REQUIRED BY THE CITY AND THE STATE.

16. THE DEVELOPER MUST REMOVE AT HIS COST ANY BAD SUBSURFACE SOIL WHICH WOULD NOT BE ABLE TO SUPPORT ANY PROPOSED PUBLIC IMPROVEMENT. BACKFILL SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTIONS 2100 AND 2201 ENTITLED "GRADING AND SITE PREPARATION" AND "SUBGRADE PREPARATION".

17. VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). THE DEVELOPER IS ADVISED TO USE BENCHMARK INFORMATION FOR VERTICAL CONTROL. HORIZONTAL CONTROL (CONTROL POINT INFORMATION) IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83). THE DEVELOPER IS ADVISED TO USE CONTROL POINT INFORMATION FOR HORIZONTAL CONTROL.

PLUMBING NOTES:

**EXCAVATING NOTES:** 

1. ALL LOTS HAVE BEEN SUPPLIED WITH WYES OR LATERALS. PLUMBER SHALL CONNECT HOUSE SERVICE TO MAIN AT LOCATIONS INDICATED.

2. ALL SERVICE LINES SHALL BE LAID AT 2% MINIMUM SLOPE, UNLESS OTHERWISE NOTED.

3. M.S.F.E. ELEVATION — INDICATES BASEMENT FLOOR ELEVATION OR LOWEST FLOOR ELEVATION SERVICEABLE BY PROPOSED SANITARY SEWER.

1. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION.

2. THE DEVELOPER SHALL BE RESPONSIBLE FOR RECORDING ROCK ELEVATIONS AT 25 FOOT (MAXIMUM) INTERVALS WHERE ENCOUNTERED, AND FURNISHING THIS INFORMATION TO THE DESIGN ENGINEER FOR USE ON AS-BUILTS.

3. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES. EROSION CONTROL PLANS AND PROCEDURES SHALL BE IN PLACE PRIOR TO ANY EXCAVATION.

4. NO SUBSURFACE EXPLORATION FOR THE DETERMINATION OF AND/OR THE LOCATION OF EXISTING ROCK HAS BEEN MADE.

5. WHEN SEWER LINES CROSS A LOW POINT IN A CREEK, THE SEWER LINE MUST BE ENCASED ACCORDING TO LEE'S SUMMIT.

6. DEVELOPER IS RESPONSIBLE FOR KEEPING ALL PUBLIC ROADWAYS ADJACENT TO THE CONSTRUCTION SITE FREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT. INSPECTIONS AND CLEANUP TO OCCUR ON A DAILY BASIS.

7. DEVELOPER SHALL KEEP THE ENTIRE PROJECT SITE FREE OF DEBRIS AND TRASH AT ALL TIMES. DEVELOPER SHALL EXECUTE WORK USING METHODS THAT MINIMIZE EXCESSIVE NOISE OR DUST EMISSIONS. DEVELOPER SHALL PROVIDE METHODS, MEANS AND FACILITIES TO PREVENT CONTAMINATION OF SOIL OR WATER FROM DISCHARGE OF REGULATED MATERIALS (I.E. FUEL) USED DURING CONSTRUCTION.

8. THE DEVELOPER SHALL ERECT AND MAINTAIN ORANGE COLORED TEMPORARY CONSTRUCTION FENCE AROUND ALL AREAS INDICATED ON THE PLANS TO BE LEFT UNDISTURBED BOTH TEMPORARY AND PERMANENTLY THE DEVELOPER WILL BE GIVEN NOTICE WHEN HE MAY ENTER THESE AREAS MARKED TEMPORARY BY THE OWNER ONCE PERMITS HAVE BEEN OBTAINED. THE FENCE MATERIAL SHALL BE 48" TALL. HIGH DENSITY POLYETHYLENE (HDPE) WITH NOMINAL MESH OPENING SIZE OF 1.25 INCHES X 1.25 INCHES.

	LEGEND
-ECTVOH-	EXISTING CABLE TV, OVERHEAD
<del></del>	EXISTING CABLE TV, UNDERGROUND
<del>-CTVOH-</del>	PROPOSED CABLE TV, OVERHEAD
<del></del>	PROPOSED CABLE TV, UNDERGROUND
-FCTVOH-	FUTURE CABLE TV, OVERHEAD
<del></del>	FUTURE CABLE TV, UNDERGROUND
<del>-EFOOH-</del>	EXISTING FIBER OPTIC, OVERHEAD
<del>EFO</del>	EXISTING FIBER OPTIC, UNDERGROUND
<del> F00H</del>	PROPOSED FIBER OPTIC, OVERHEAD
<del>F0</del>	PROPOSED FIBER OPTIC, UNDERGROUND
<del>-FF00H-</del>	FUTURE FIBER OPTIC, OVERHEAD
<del></del>	FUTURE FIBER OPTIC, UNDERGROUND
<del>EFP</del>	EXISTING FIRE PROTECTION SYSTEM LINE
<del></del>	PROPOSED FIRE PROTECTION SYSTEM LINE
—FFP—	FUTURE FIRE PROTECTION SYSTEM LINE
<del>EFL</del>	EXISTING FUEL LINE
<del>FL</del>	PROPOSED FUEL LINE
——————————————————————————————————————	FUTURE FUEL LINE
<del>EG</del>	EXISTING NATURAL GAS LINE
<del></del>	PROPOSED NATURAL GAS LINE
<del>- FG</del>	FUTURE NATURAL GAS LINE
<del>-ETELOH-</del>	EXISTING TELEPHONE LINE, OVERHEAD
ETEL	EXISTING TELEPHONE LINE, UNDERGROUND
<del>TELOH</del>	PROPOSED TELEPHONE LINE, OVERHEAD
<del>TEL</del>	PROPOSED TELEPHONE LINE, UNDERGROUND
<del>-FTELOH-</del>	FUTURE TELEPHONE LINE, OVERHEAD
— FTEL	FUTURE TELEPHONE LINE, UNDERGROUND
<del>EEOH</del>	EXISTING POWER\ELECTRIC LINE, OVERHEAD
<del></del>	EXISTING POWER\ELECTRIC LINE, UNDERGROUND
<del>EOH</del>	PROPOSED POWER\ELECTRIC LINE, OVERHEAD
<del></del>	PROPOSED POWER\ELECTRIC LINE, UNDERGROUND
<del></del>	FUTURE POWER\ELECTRIC LINE, OVERHEAD
	FUTURE POWER\ELECTRIC LINE, UNDERGROUND
<del>ESS</del>	EXISTING SANITARY SEWER
<del></del>	PROPOSED SANITARY SEWER
F55	FUTURE SANITARY SEWER
<del>ESL</del>	EXISTING STEAM LINE
SL	PROPOSED STEAM LINE
<del>- FSL</del>	FUTURE STEAM LINE
EST	EXISTING STORM SEWER
ST	PROPOSED STORM SEWER
	FUTURE STORM SEWER
<del></del>	EXISTING WATER LINE
W	PROPOSED WATER LINE

FUTURE WATER LINE

	ESTIMATE OF QUANT	ITIES		
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	AS-BU
	STREET			
1	8" SANITARY PVC (SDR-26)	L.F.	2903.2	
2	MANHOLES, STD. 4' DIA.	EA.	17	
3	DROP MANHOLE STD. 4' DIA.	EA.	3	
4	DROP ADDITION	V.F.	24.07	
5	CONNECTION TO EXISTING M.H.	EA.	3	
6	SERVICE WYE	EA.	47	
7	4" LATERAL PIPE	L.F.	1888.76	

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.

AS-BUILT / SERVICE LINE NOTE

1.) CONTRACTOR SHALL PLACE 2"X4" TIMBER OR METALLIC TAPE AT END OF EACH SERVICE LINE STUB. STANDARD 8' LENGTH MAY BE VARIED WITH 3' EXPOSED WHEN PLACED DIRECTLY OVER THE SERVICE LINE TERMINATION POINT. 2"X4" TIMBER SHALL BE MARKED APPROPRIATELY TO IDENTIFY SEWER SERVICE STUB.

2.) CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING OF ROCK ELEVATIONS AT 25' INTERVALS WHERE ENCOUNTERED. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RECORDING SERVICE LINE LOCATIONS FROM THE DOWNSTREAM OR UPSTREAM MANHOLE AND SERVICE LINE LENGTHS DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO RECORD VERTICAL ELEVATIONS WITH A REFERENCE POINT. ALL INFORMATION SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR PREPARATION OF AS—BUILT PLANS.

		CONT	ROL PO	INT TABLE			
POINT NUMBER	EASTING	NORTHING	POINT ELEVATION	DESCRIPTION			
1	2813424.811	1004323.277	978.52	SET 3" IB/CAP ON THE WEST SIDE OF PRYOR ROAD ON THE NORTH SIDE OF THE NORTH ENTRANCE TO THE JOHN KNOX VILLAGE CARE CENTER. 23.0' S TO BACK OF CURB. 51.0' SE TO POWER POLE. 52.4' S TO LIGHT POLE.			
2	2810579.799	1003600.769	965.27	SET 3" IB/CAP ON THE SW CORNER OF THE INTERSECTION OF NW ASHURST AND NW ESSEX AVE. 12.2' NW TO CENTERLINE FIBER BOX. 37.3' E TO STOP SIGN. 39.7' E-NE TO LIGHT POLE.			
3	2810569.194	1000980.591	904	SET 3" IB/CAP AT THE SE CORNER OF NW CODY DRIVE AND NW WHITLOCK DRIVE. 12.2' ETO NW CORNER CURB INLET. 7.7' SE TO POWER POLE. 49.7' W-NW TO STOP SIGN.			
4	2813406.046	1000727.167	958.11	SET 3" IB/CAP ON THE SE CORNER SW PRYOF ROAD AND SW 1ST STREET. 10.8' NE TO FIRE HYDRANT. 22.1' NE TO SE CORNER CURB INLET. 22.0' SW TO NE CORNER CURB INLET.			
6	2813383.638	1002469.496	979.56	SET 3" IB/CAP ON THE SW CORNER OF PRYOR ROAD AND O'BRIEN ROAD. IT IS IN LINE WITH THE PC OF THE CURB RETURN N AND THE BENCHMARK E.			
BENCHMARK							
POINT NUMBER	EASTING	NORTHING	POINT ELEVATION	DESCRIPTION			
5	2813403.101	1002468.034	979.24	CHISELED BOX ON THE SE CORNER OF A CONCRETE PAD FOR A TRAFFIC SIGNAL BOX AT THE SW CORNER OF PRYOR ROAD AND O'BRIEN ROAD.			

OSSOD

JULIE ELAINE SELLERS NUMBER PE-2017000367 7/10/20

GENERAL NOTES  REV. DATE  REV. DATE  REVISIONS DESCRIPTION	SANITARY SEWER PLANS  1 07/10/2020 REVISED PER CITY COMMENTS	MOODSIDE RIDGE	מומר ויוממר	SECOND PLAT		2020 REVISIONS	
GENER		7001	SECO	() H	LEE'S SUMMII, MO		

 drawn by:
 C.S.M

 checked by:
 S.M.S

 designed by:
 C.S.M

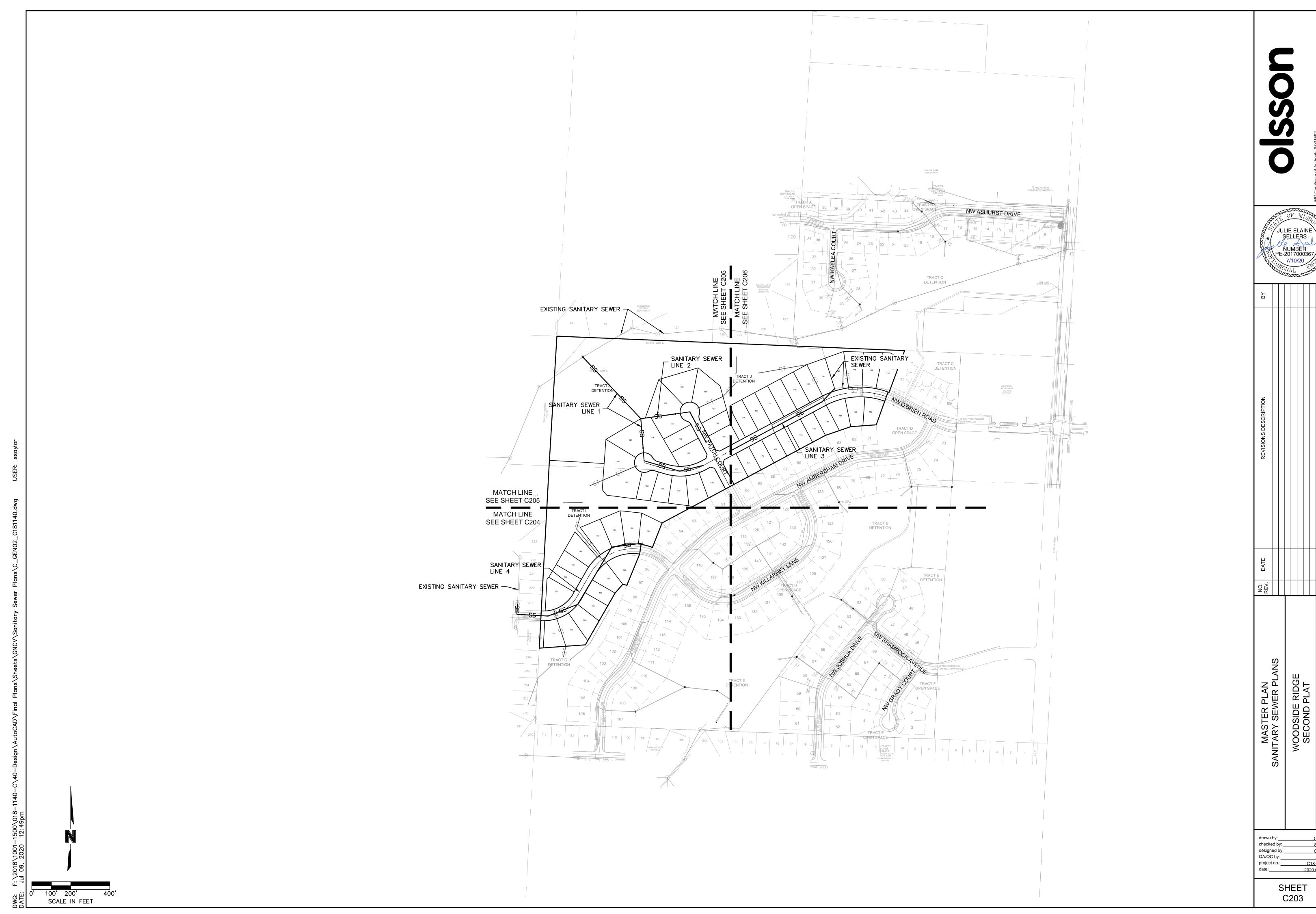
 QA/QC by:
 J.E.S

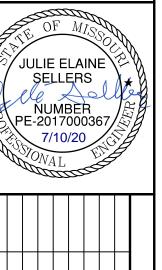
 project no.:
 C18-1140

 date:
 2020.07.10

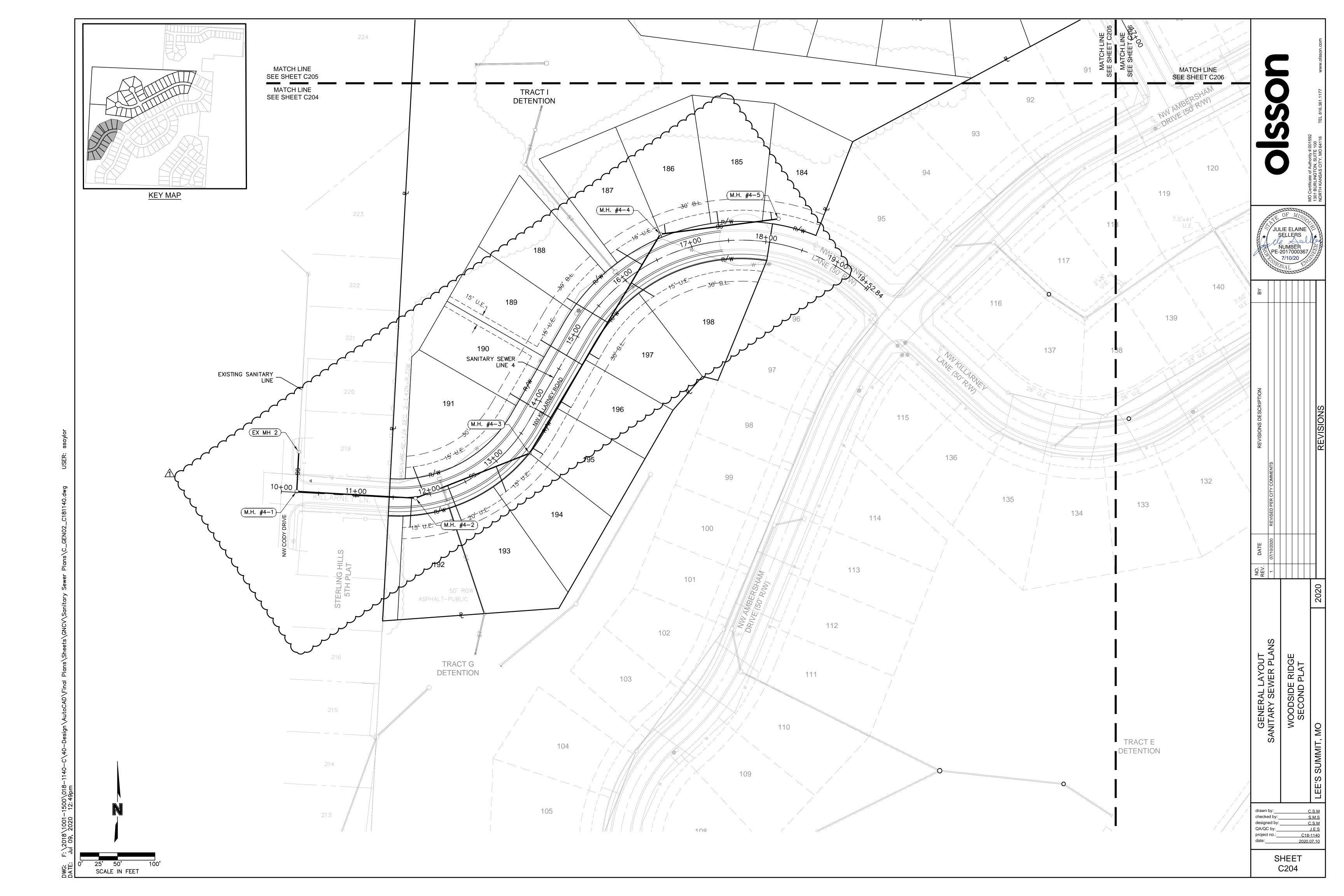
ALL NOTES REFERENCED ON THIS PLAN SHEET MAY HAVE APPLICATIONS TO EVERY FACET OF THE CONSTRUCTION PLANS. THE NOTE HEADINGS OR TITLES ARE TO BE USED AS A GENERAL GUIDE TO APPLICABLE SITUATIONS.

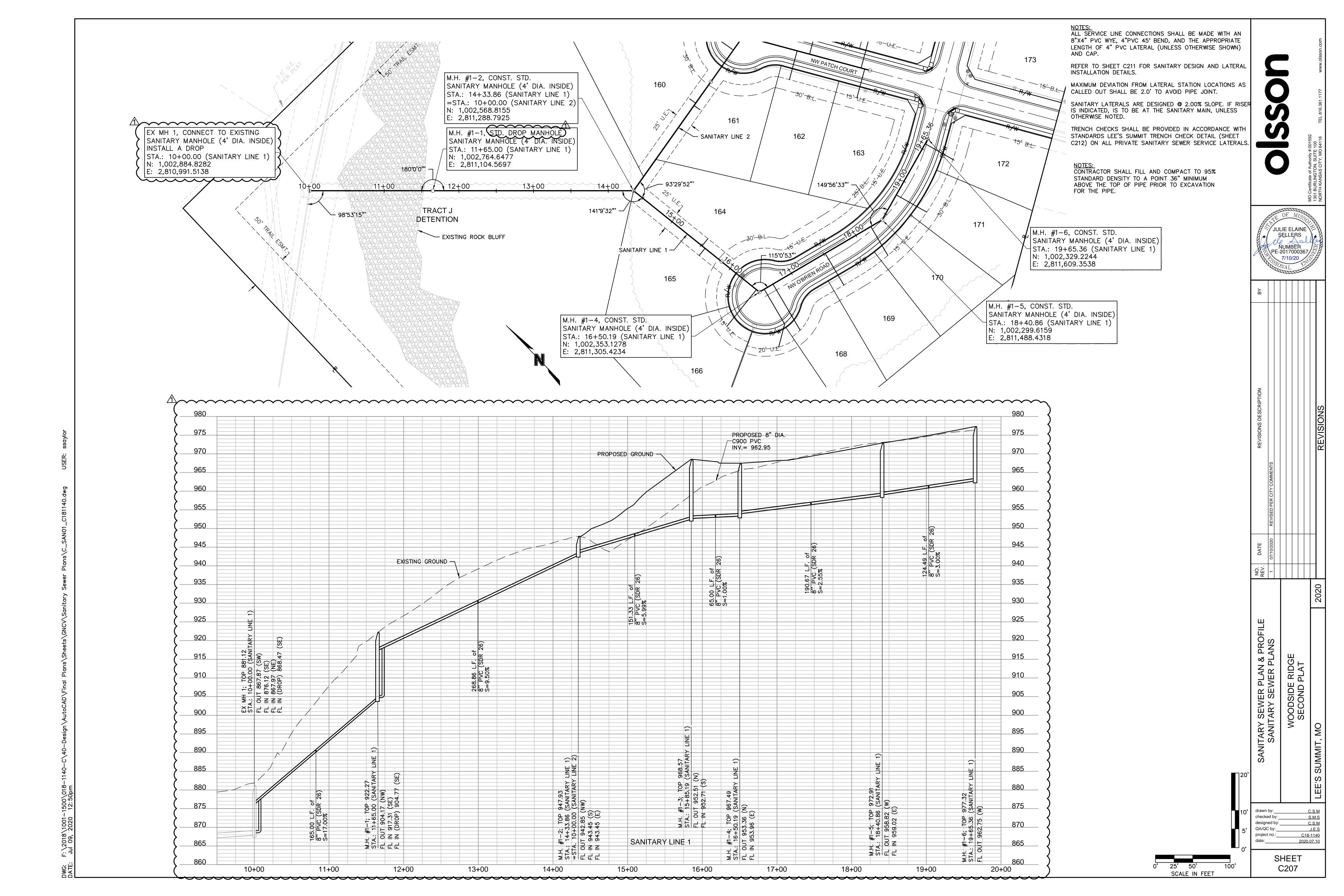
SHEET C202

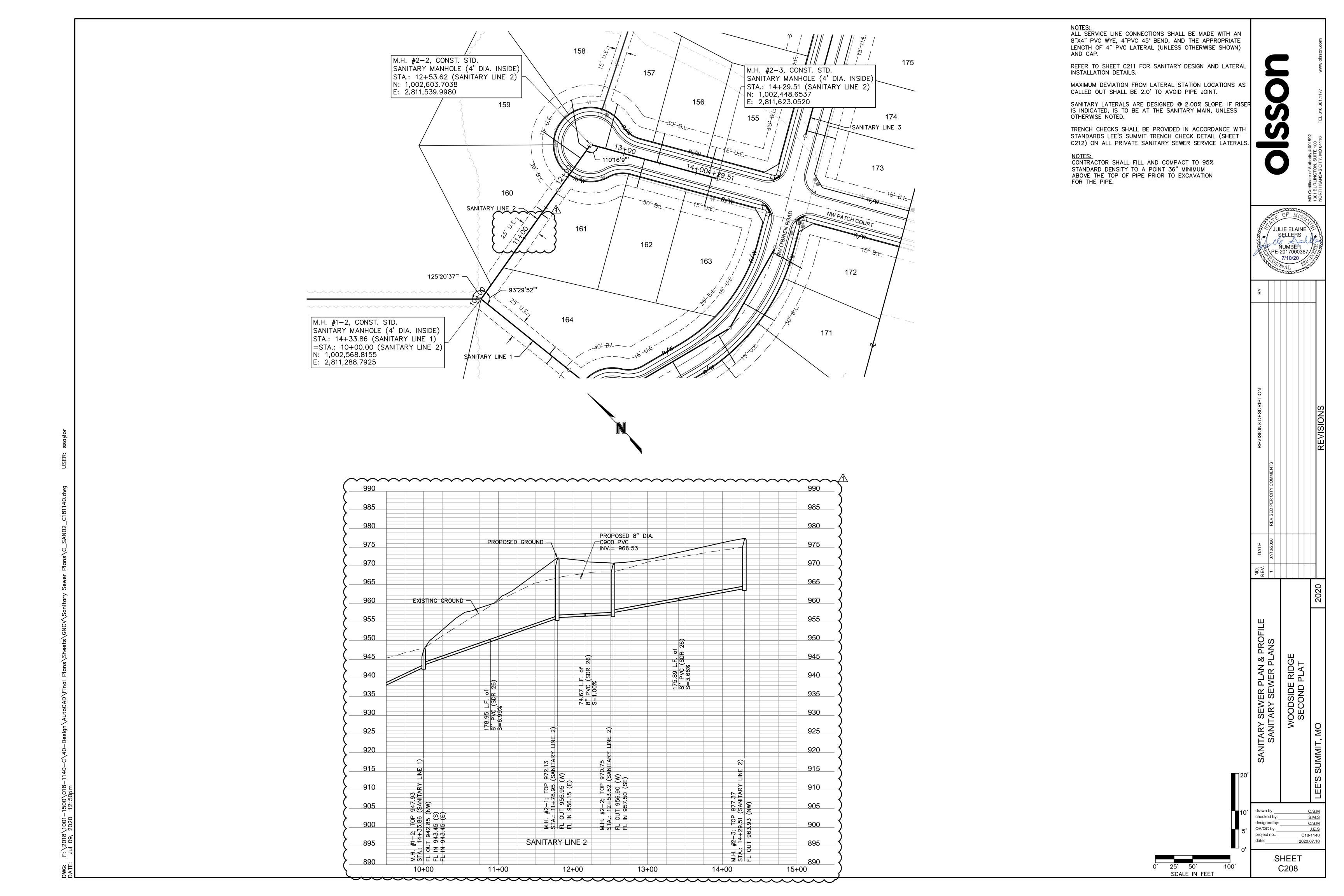


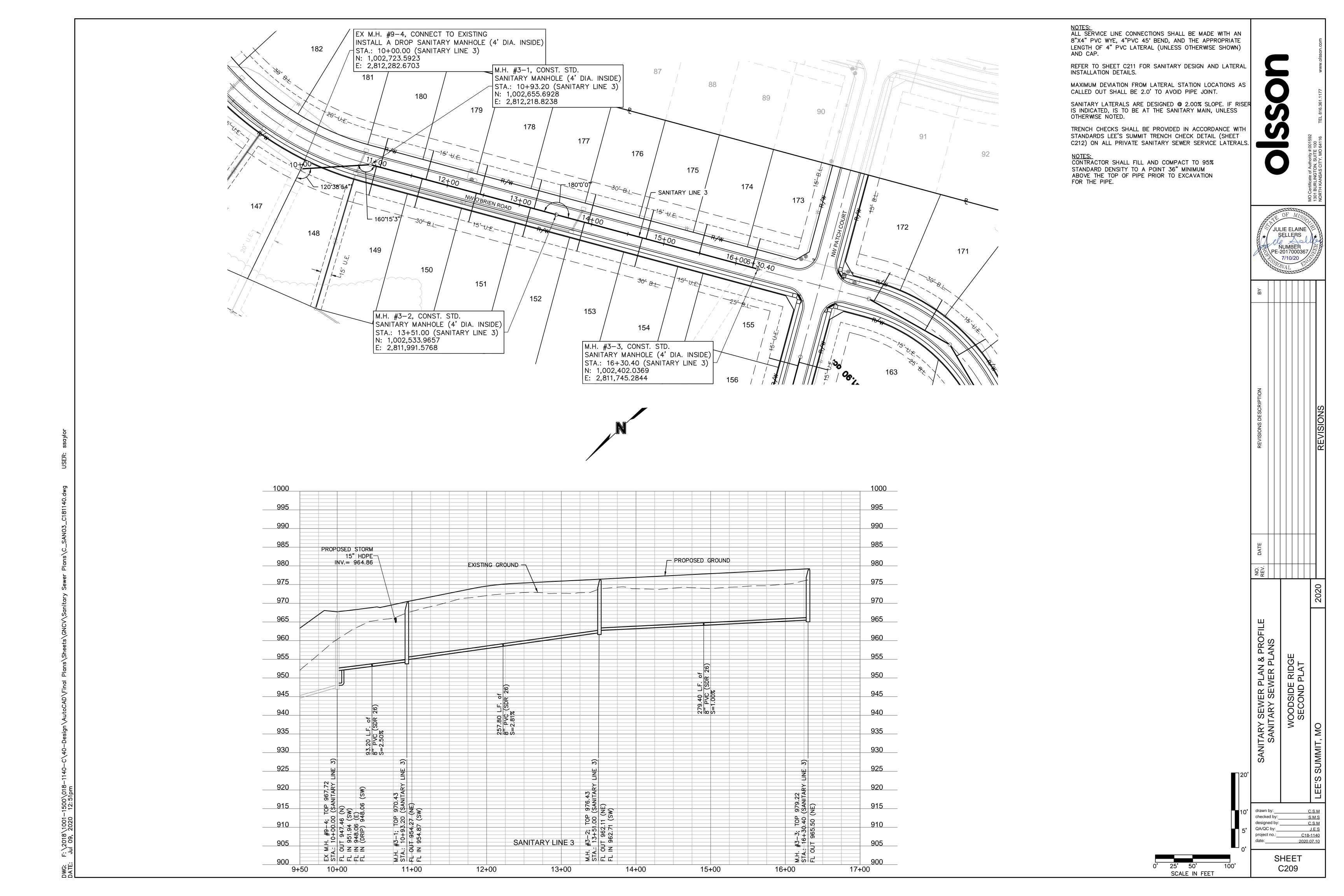


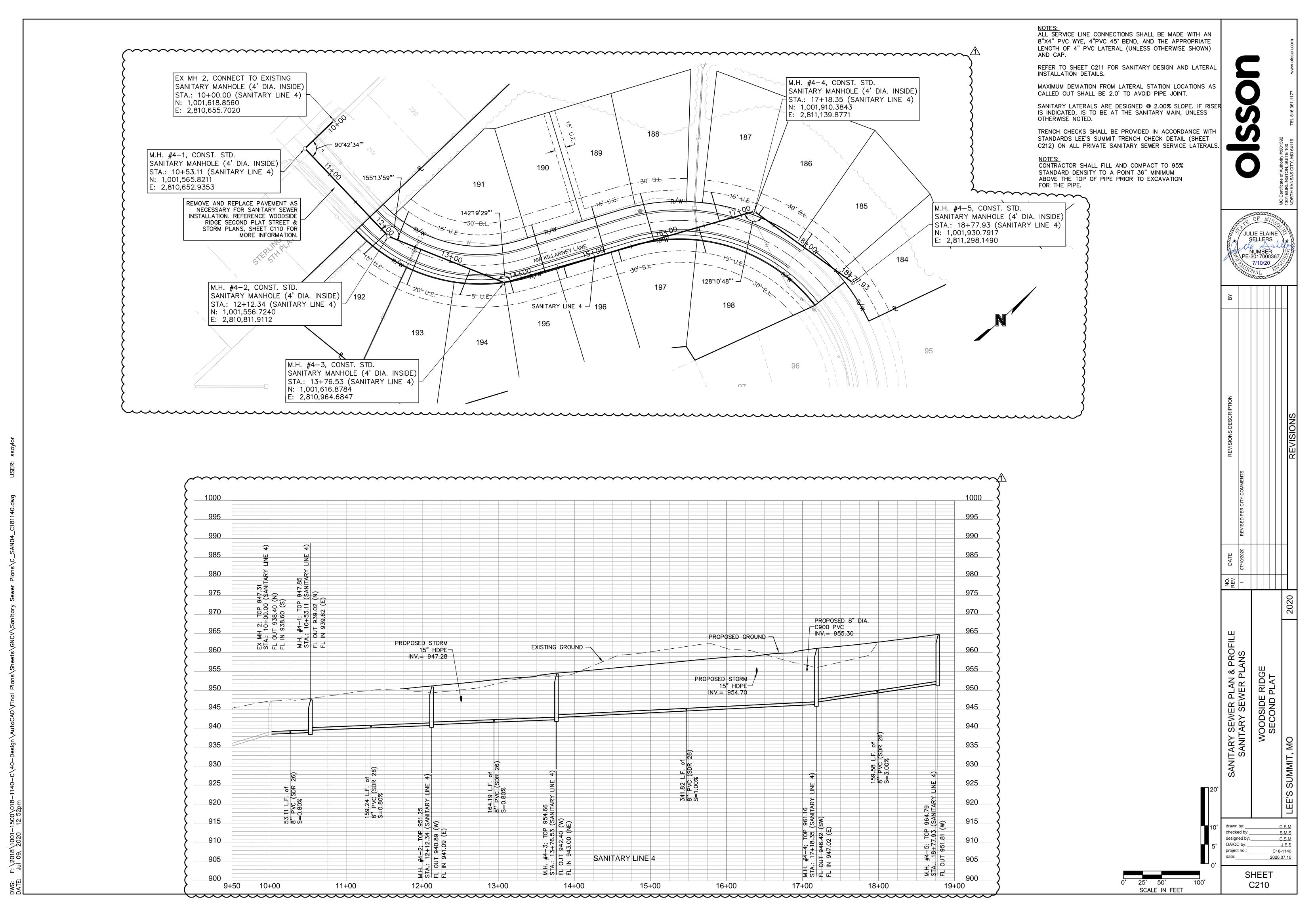
C.S.M S.M.S C.S.M J.E.S C18-1140 2020.07.10











Minimum Flowline | Servicable Flowline Lateral Lateral at End of Riser at Main Floor Number Station Length Lateral Elevation 11+65.14 967.52 151 12+40.14 4.0 959.0 964.7 40.00 964.9 152 967.66 13+15.14 40.00 2.0 961.1 965.9 968.68 153 1.0 963.1 13+90.14 40.00 966.7 154 14+70.41 1.0 963.9 969.48 40.00 966.3 963.7 963.5 960.9 969.07 155 156 14+17.17 40.00 1.0 1.0 966.46 13+45.75 | 40.00 0.0 960.5 959.3 157 958.2 963.28 12+73.79 61.61 158 12+45.92 72.52 0.0 956.8 962.08 959.9 159 12+30.97 60.93 1.0 956.7 962.68 959.6 960.3 5.0 160 953.5 11+43.81 10.00 962.41 953.2 963.11 11+39.81 10.00 6.0 161 963.0 966.5 956.6 162 13+28.57 1.0 960.3 965.83 163 963.7 969.26 14+22.17 40.00 1.0 5.0 164 15+51.64 10.00 950.5 959.41 950.8 955.9 958.73 165 10.00 4.0 15+56.64 953.3 955.6 16+45.07 63.29 958.38 166 0.0 956.8 956.9 167 16+54.28 0.0 954.1 959.49 0.0 168 954.5 959.74 16+71.28 71.64 959.5 17+52.34 49.23 1.0 956.6 169 962.34 958.4 961.3 18+23.26 170 1.0 964.06 960.2 962.5 2.0 964.1 171 18+79.32 46.90 966.88 966.4 172 19+57.99 44.54 2.0 969.20 968.2 173 16+23.06 40.00 1.0 965.4 971.01 964.7 967.5 1.0 174 15+49.40 40.00 970.27 1.0 1.0 964.0 963.2 966.7 175 14+75.40 40.00 969.53 965.9 965.0 176 13+95.13 40.00 968.73 2.0 961.2 967.80 13+20.13 40.00 177 964.9 962.7 960.0 4.0 959.1 178 967.66 12+45.13 40.00 4.0 3.0 1.0 957.0 179 11+70.14 40.00 965.55 955.2 951.5 180 184 11+06.41 40.00 962.78 953.7 956.52 951.8 954.58 950.4 953.24 18+68.67 10.12 

 18+68.67
 10.12
 1.0
 951.5
 953.7
 956.52

 17+97.13
 20.30
 1.0
 949.4
 951.8
 954.58

 17+25.29
 12.48
 2.0
 947.2
 950.4
 953.24

 16+70.70
 39.79
 1.0
 945.9
 948.7
 951.53

 15+80.69
 63.73
 1.0
 945.0
 948.3
 951.10

 15+14.41
 64.58
 0.0
 944.4
 946.7
 949.48

 14+31.93
 63.28
 0.0
 943.6
 945.8
 948.63

 12+24.92
 40.14
 0.0
 941.2
 943.0
 945.80

 12+07.26
 39.13
 0.0
 940.9
 942.6
 945.44

 12+58.60
 49.77
 0.0
 941.5
 943.5
 946.26

 13+28.43
 36.19
 0.0
 942.0
 943.7
 946.55

 13+84.63
 16.04
 0.0
 943.1
 944.4
 947.21

 14+57.56
 16.33
 0.0
 943.8
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 15+32.55
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Sanitary Sewer Laterals

	_			Sanit	ary Sewer Des	ign Informatio	n				
Upstream Manhole	Downstream Pipe Slope	Downstream Pipe Diameter	Proposed Cumulative Area	Future Cumulative Area	Peak Base Flow 50-Year Design	Peak Inflitration Flow 50- Year Design	Peak Inflow 50-Year Design	Total Peak Flow	Downstream Pipe Mannings N	Downstream Pipe Capacity	Downstream Pipe Full Flov Velocity
	(%)	(in)	(Ac.)	(Ac.)	(gpd)	(gpd)	(cfs)	(cfs)		(cfs)	(fps)
EX MH 7776	1.33%	15	346.72	0.00	520080.00	173360.000	4.251	5.324	0.014	6.92	5.64
MH 1-1	17.00%	8	7.72	0.00	11580.00	3860.000	0.228	0.252	0.014	4.63	13.25
MH 1-2	9.50%	8	7.72	0.00	11580.00	3860.000	0.228	0.252	0.014	3.46	9.91
MH 1-3	5.99%	8	3.97	0.00	5955.00	1985.000	0.124	0.136	0.014	2.75	7.87
MH 1-4	1.00%	8	2.80	0.00	4200.00	1400.000	0.089	0.098	0.014	1.12	3.21
MH 1-5	2.55%	8	2.31	0.00	3465.00	1155.000	0.075	0.082	0.014	1.79	5.13
MH 1-6	3.00%	8	0.76	0.00	1140.00	380.000	0.026	0.028	0.014	1.94	5.57
MH 1-2	9.50%	8	7.72	0.00	11580.00	3860.000	0.228	0.252	0.014	3.46	9.91
MH 2-1	6.99%	8	3.75	0.00	5625.00	1875.000	0.117	0.129	0.014	2.97	8.50
MH 2-2	1.00%	8	2.85	0.00	4275.00	1425.000	0.091	0.100	0.014	1.12	3.21
MH 2-3	3.66%	8	1.90	0.00	2850.00	950.000	0.000	0.000	0.000	0.00	0.00
EX MH 3-3	5.68%	8	9.58	0.00	14370.00	4790.000	0.277	0.307	0.014	2.67	7.66
MH 3-1	2.50%	8	4.45	0.00	6675.00	2225.000	0.137	0.151	0.014	1.77	5.08
MH 3-2	2.81%	8	4.45	0.00	6675.00	2225.000	0.137	0.151	0.014	1.88	5.39
MH 3-3	1.00%	8	1.92	0.00	2880.00	960.000	0.063	0.069	0.014	1.12	3.21
EXMH 4	5.80%	8	5.44	0.00	8160.00	2720.000	0.165	0.182	0.014	2.70	7.74
MH 4-1	0.80%	8	5.44	0.00	8160.00	2720.000	0.165	0.182	0.014	1.00	2.88
MH 4-2	0.80%	8	5.44	0.00	8160.00	2720.000	0.165	0.182	0.014	1.00	2.88
MH 4-3	0.80%	8	5.12	0.00	7680.00	2560.000	0.156	0.172	0.014	1.00	2.88
MH 4-4	1.00%	8	3.92	0.00	5880.00	1960.000	0.122	0.134	0.014	1.12	3.21
MH 4-5	3.00%	8	1.07	0.00	1605.00	535.000	0.036	0.039	0.014	1.94	5.57

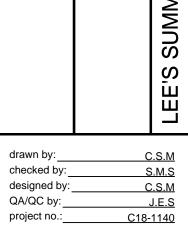
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C18-1140 2020.07.10

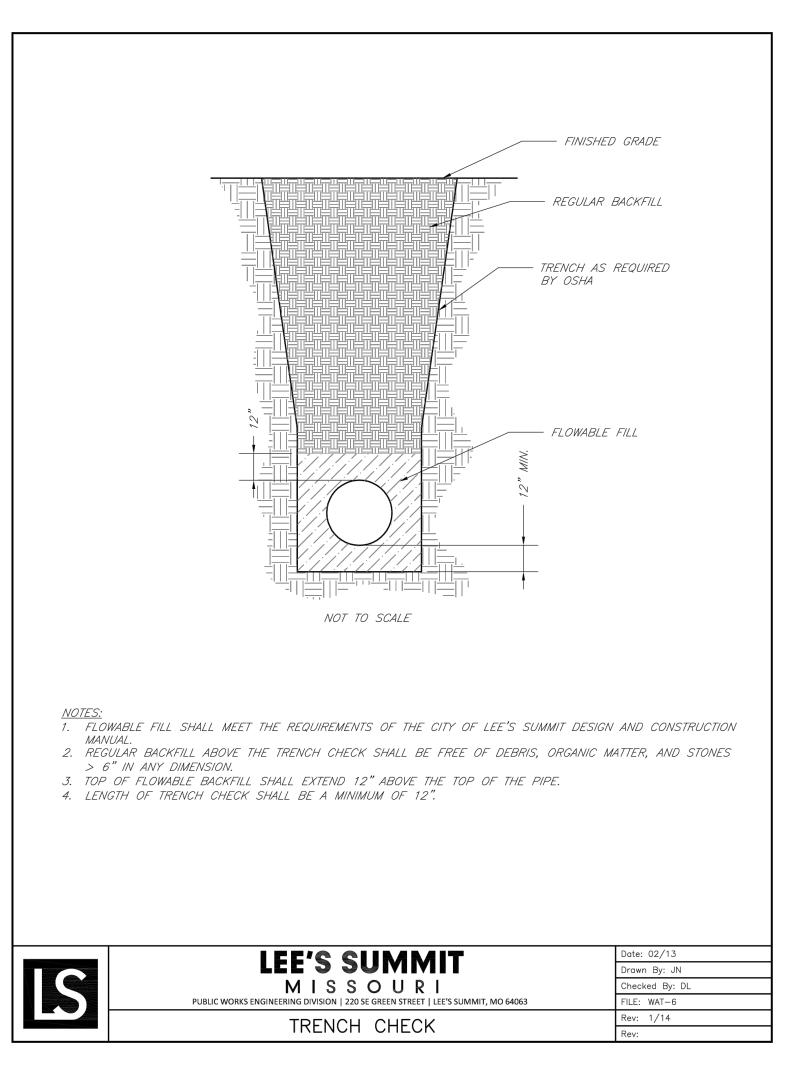
SHEET C211

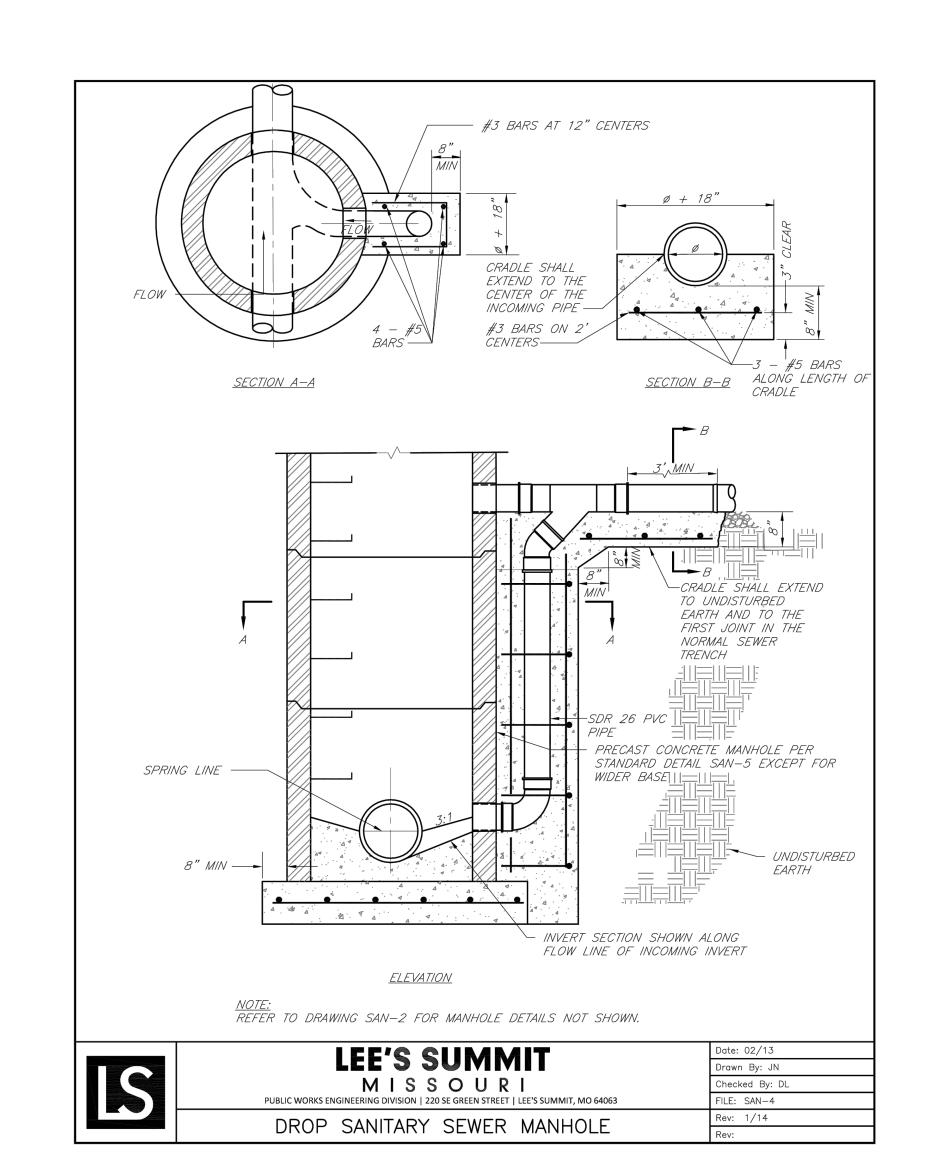
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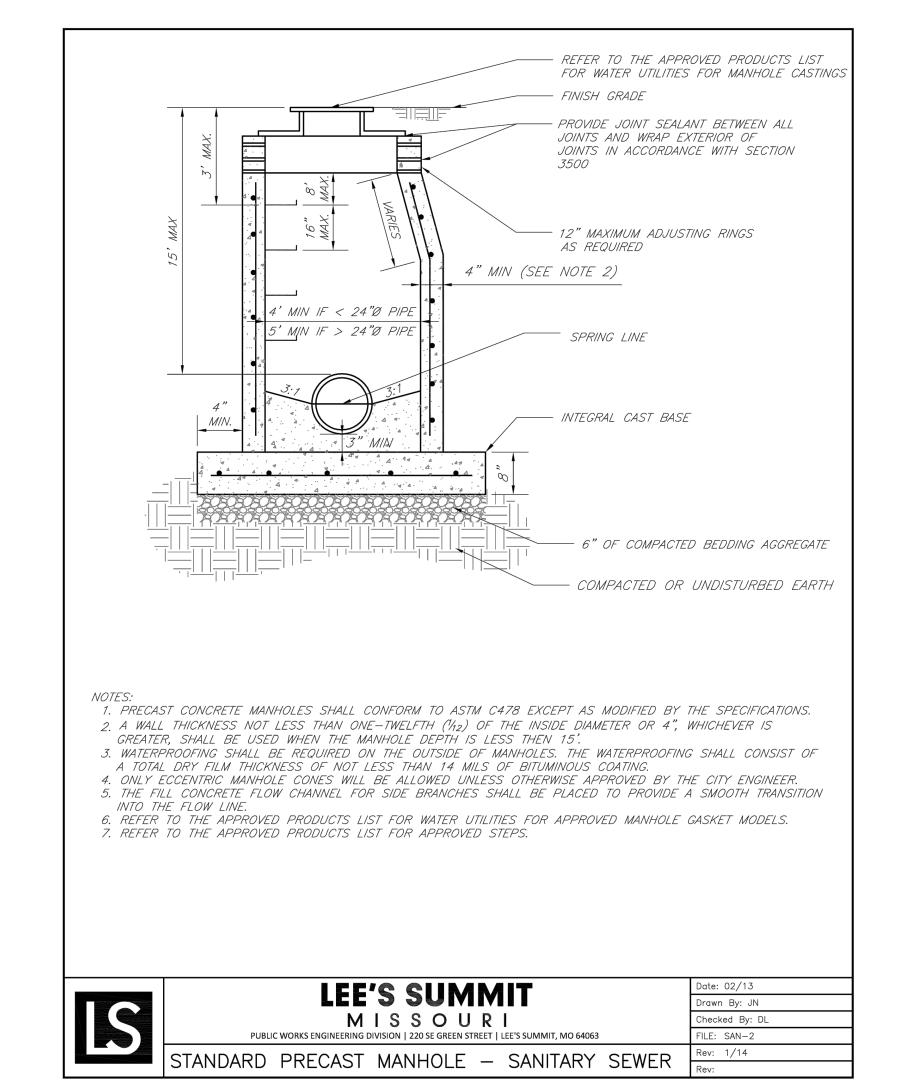


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2020.07.10







— 2'-0 5/16"——

—1'-10 9/16"·

SLAB MANHOLE FRAME

LEE'S SUMMIT PART NO.: LS103A MINIMUM WEIGHT = 145 LB

\_2'-0 5/16"-

— 2'-9 1/2"—

STANDARD 24" MANHOLE FRAME

LEE'S SUMMIT PART NO.: LS101A

MINIMUM WEIGHT = 250 LB

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

Date: 04/17 Drawn By: MJF

Checked By: DL

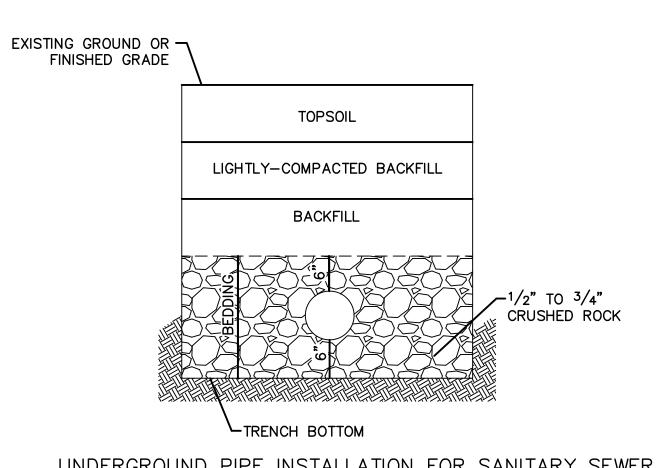
STM-7

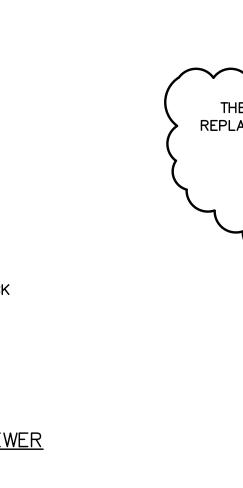
LEE'S SUMMIT

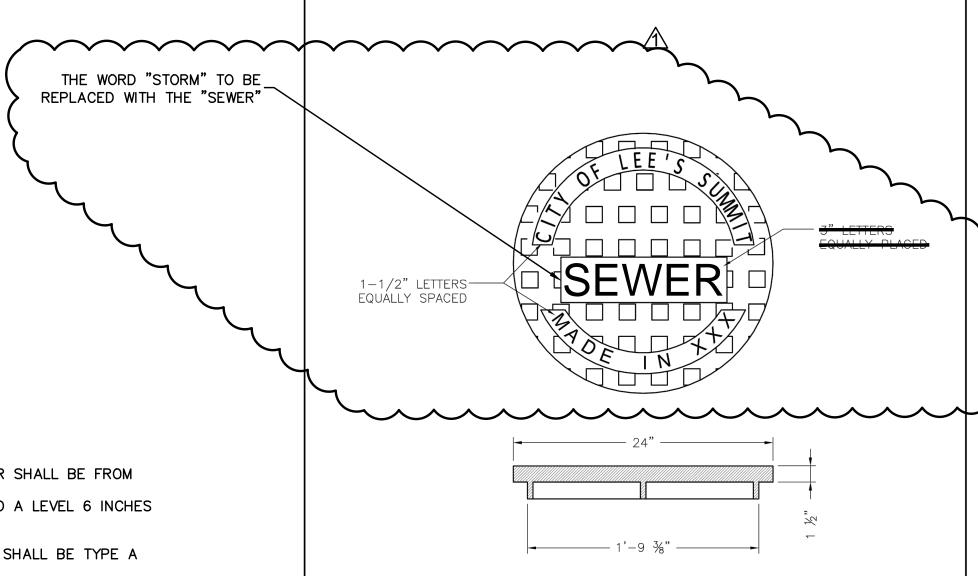
MISSOURI

STORM MANHOLE FRAME DETAIL

——1'-10 9/16"—



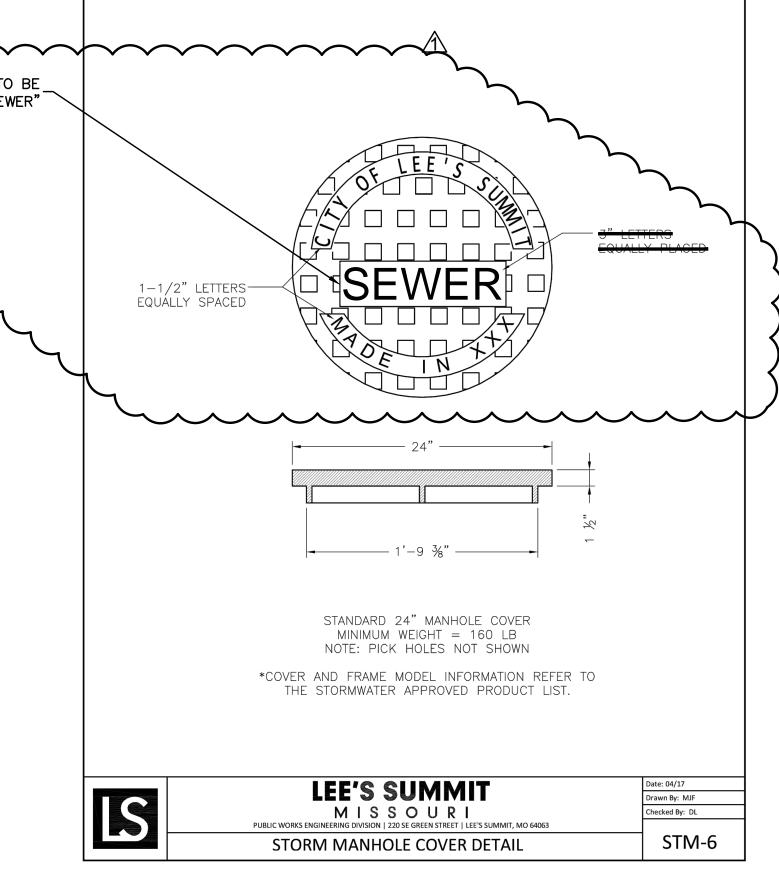


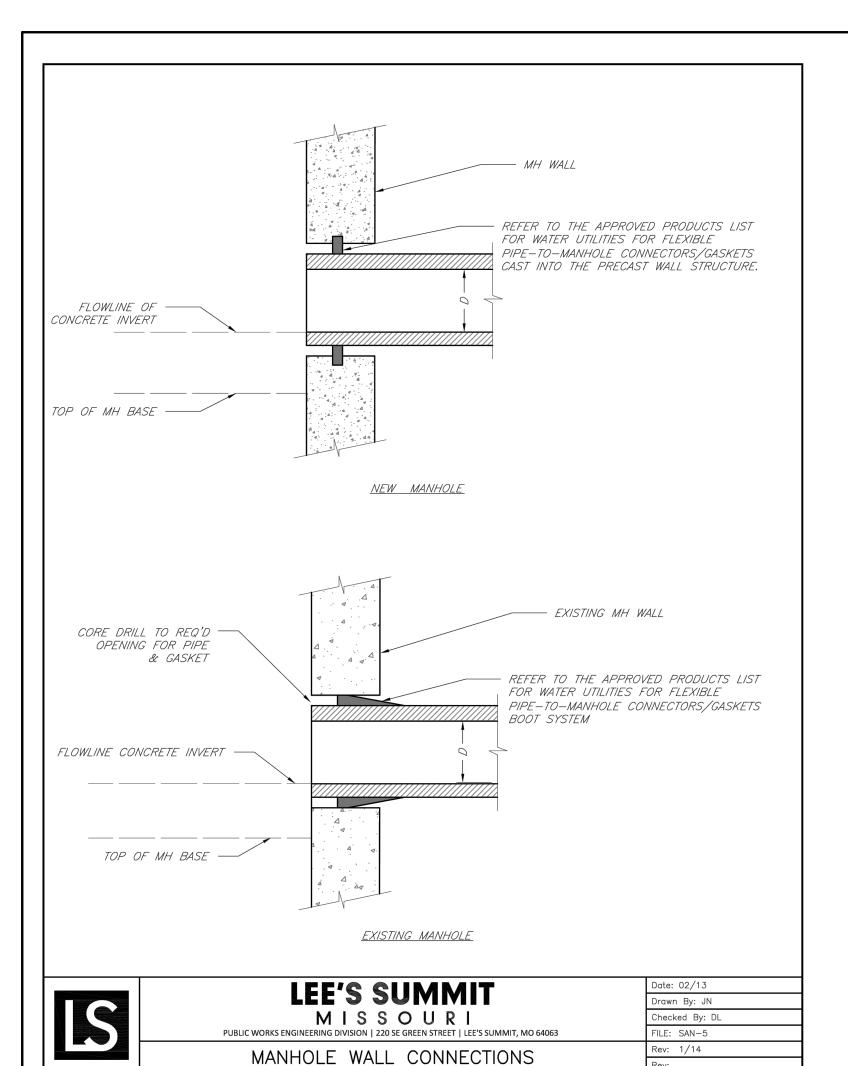


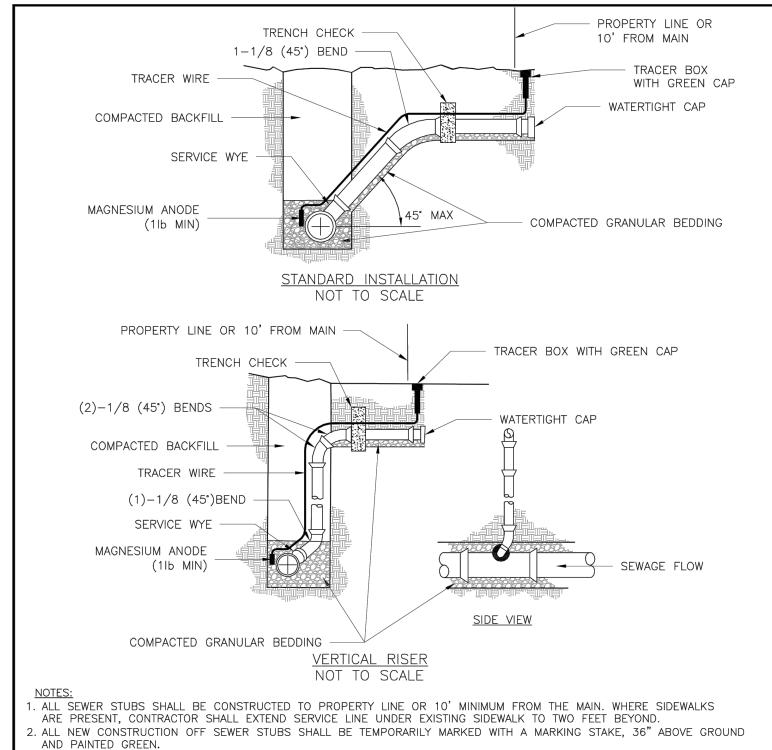
## UNDERGROUND PIPE INSTALLATION FOR SANITARY SEWER

- NOTES:

  1. A MINIMUM OF 36 INCHES OF COVER SHALL BE OVER THE TOP OF THE PIPE. THIS MINIMUM OF COVER SHALL BE FROM THE TOP OF PIPE TO THE FINISHED GRADE.
- 2. BEDDING AGGREGATE SHALL BE PLACED FROM A LEVEL 6 INCHES BELOW THE BOTTOM OF THE PIPE TO A LEVEL 6 INCHES ABOVE THE TOP OF THE PIPE.
- 3. TRENCH BACKFILL IN PAVED AREAS WITHIN STREET OR ALLEY RIGHT OF WAYS a. NARROW TRENCH: SUITABLE BACKFILL MATERIAL FOR TRENCHES 24 INCHES OR LESS IN WIDTH AND SHALL BE TYPE A
- FLOWABLE FILL. b. STANDARD TRENCH: SUITABLE BACKFILL MATERIAL FOR TRENCHES BETWEEN 24 TO 48 INCHES WIDE SHALL BE EITHER TYPE A FLOWABLE FILL OR DENSE, WELL GRADED AGGREGATE BASE MATERIAL. AGGREGATE BASE MATERIAL SHALL MEET THE REQUIREMENTS FOR KDOT AB-3; MODOT TYPES 1 OR 5; OR APWA 2202.2. c. WIDE TRENCH: SUITABLE BACKFILL MATERIAL FOR TRENCHES GREATER THAN 48 INCHES WIDE SHALL BE SUITABLE
- MATERIAL AS SPECIFIED FOR EARTH EMBANKMENT IN APWA STANDARD SPECIFICATIONS, SECTION 2102.2.C. 4. SUITABLE BACKFILL MATERIAL OUTSIDE OF PAVED AREAS WITHIN RIGHT OF WAY, AND ALL AREAS OUTSIDE RIGHT OF WAY, MAY BE SUITABLE MATERIAL AS SPECIFIED FOR EARTH EMBANKMENT IN APWA STANDARD SPECIFICATIONS, SECTION 2102.2.C. SUITABLE BACKFILL MATERIAL MAY ALSO BE OTHER TRENCH BACKFILL MATERIAL (FLOWABLE FILL OR AGGREGATE BASE) DEPENDING ON SITE CONDITIONS, TRENCH WIDTHS OR AT THE DIRECTION OF THE CITY'S ON SITE INSPECTOR.



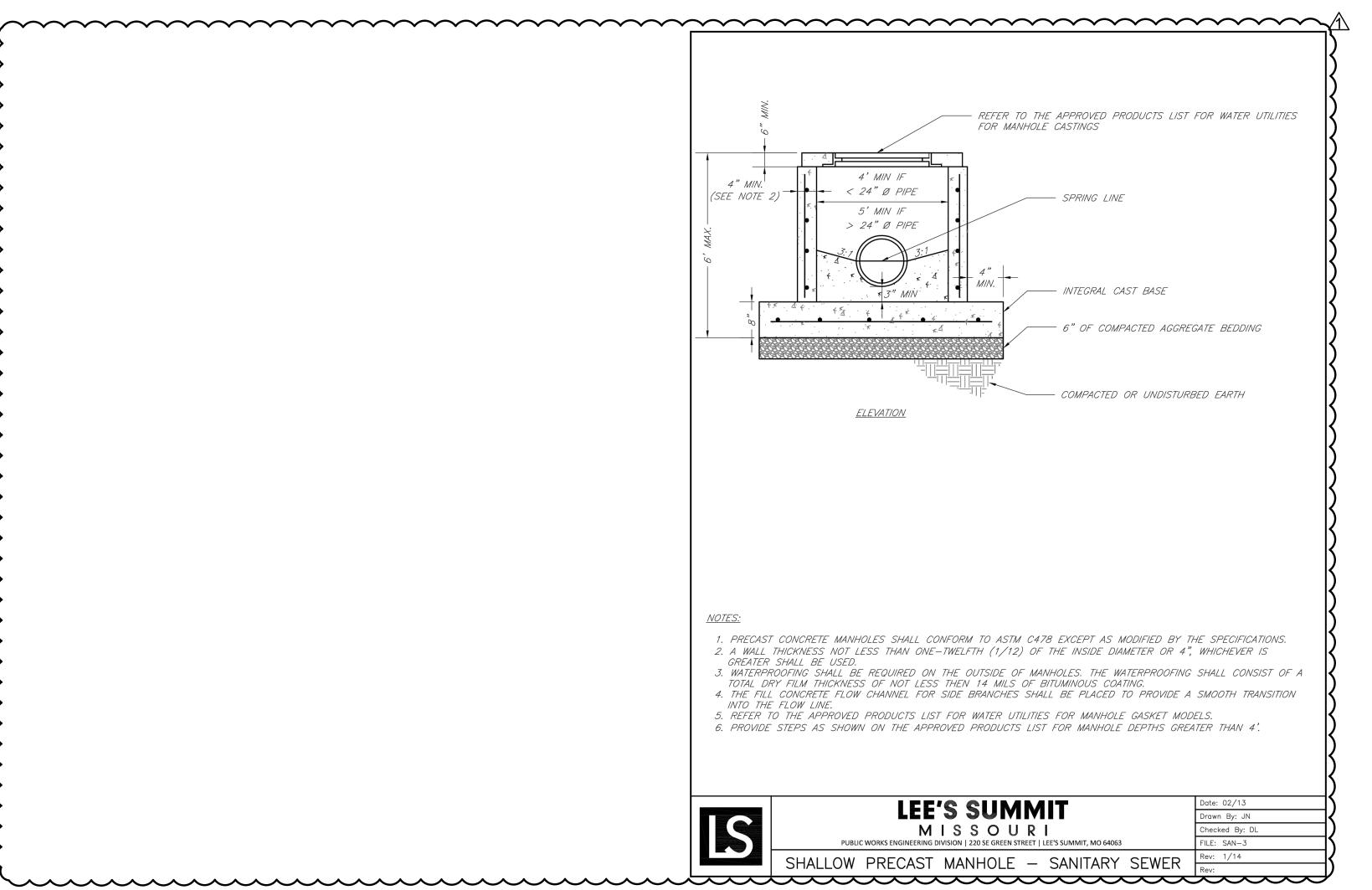




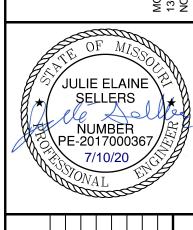
- 3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
- 4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH
- SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
  THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
- 5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
- 6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
  7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
- 8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.

  9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO

PREVENT CO	RROSION.	
	LEE'S SUMMIT	Date: 04/17
	ree 3 20 IAIIAII I	Drawn By: MJF
	MISSOURI	Checked By: DL
	PUBLIC WORKS ENGINEERING DIVISION   220 SE GREEN STREET   LEE'S SUMMIT, MO 64063	
	BUILDING SEWER STUB AND RISER	SAN-1



MO Certificate of Authority #:001592



	NO.	NO. DATE	REVISIONS DESCRIPTION	ВУ
	-	07/10/2020	REVISED PER CITY COMMENTS	
0000				
2020			REVISIONS	

DETAILS SHEET SANITARY SEWER PLA	WOODSIDE RIDGE SECOND PLAT	
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 drawn by:
 C.S.M

 checked by:
 S.M.S

 designed by:
 C.S.M

 QA/QC by:
 J.E.S

 project no.:
 C18-1140

 date:
 2020.07.10

SHEET C213