

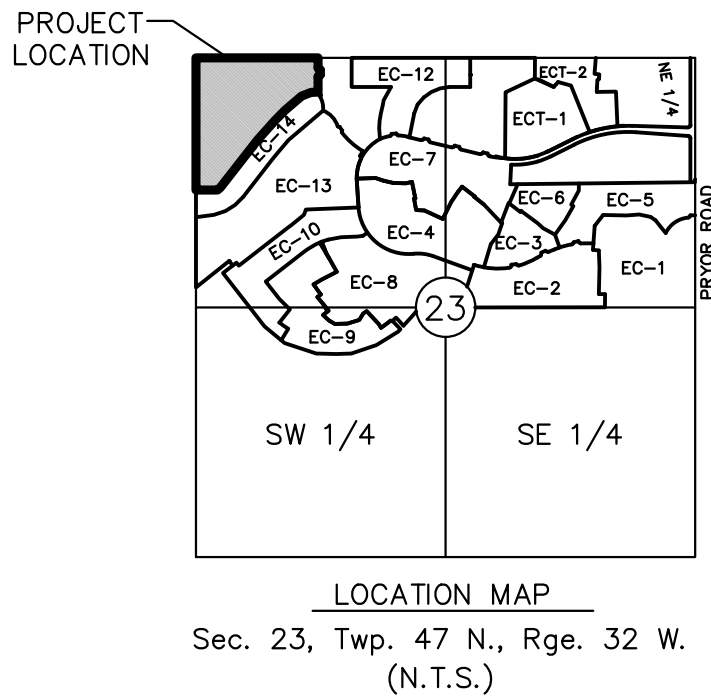
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DATE: Feb 23, 2017 6:07pm
USER: dhernandez

EAGLE CREEK 15TH PLAT

Lee's Summit, Jackson County, Missouri

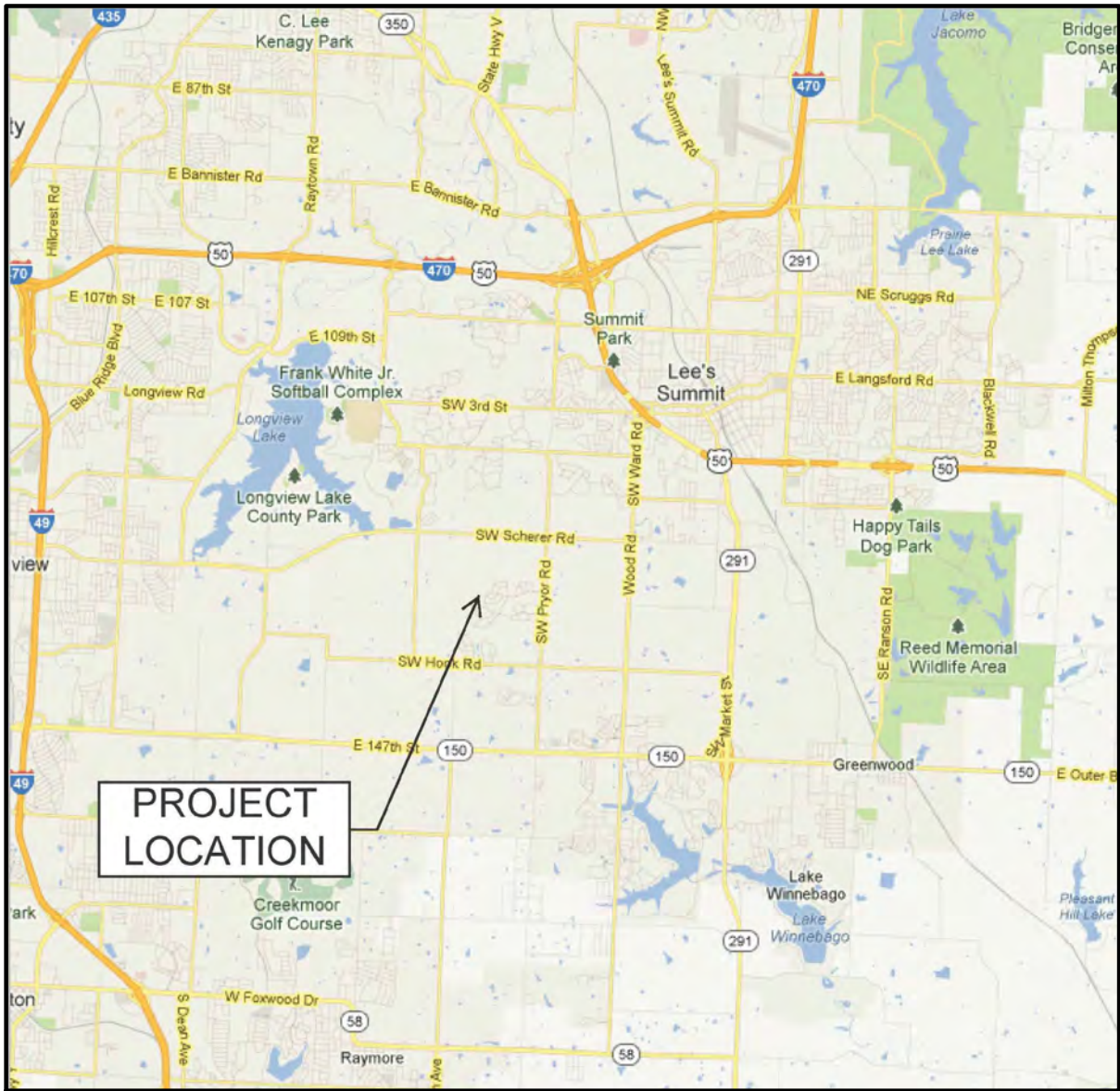
SANITARY SEWER PLANS

PROJECT BENCHMARK
KC Metro Monument JA-74, 1988 Monument located in the NW ¼, NW ¼ Sec. 35, T47N, R32W on the South R/W of Route 150. 56.5' South of the Centerline of Route 150 and 90' West of a private drive into a farmhouse on the North R/W.
Elevation: 1057.70



LEGAL 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: Beginning at the Northwest corner of said Northwest Quarter; thence South 87°35'47" East, along the North line of said Northwest Quarter, 1,301.52 feet; thence South 02°24'13" West, 105.00 feet; thence South 42°35'47" East, 35.36 feet; thence South 02°24'13" West, 50.00 feet; thence South 47°24'13" West, 35.36 feet; thence South 02°24'13" West, 134.41 feet; thence Southerly, along a curve to the left, being tangent with the last described course with a radius of 800.00 feet, a central angle of 01°54'39", and an arc distance of 26.68 feet to the Northeast corner of said EAGLE CREEK-FOURTEENTH PLAT; thence North 89°30'27" West, along the North line of said EAGLE CREEK-FOURTEENTH PLAT, 75.00 feet; thence South 71°15'03" West, continuing along said North line, 107.13 feet; thence South 51°50'15" West, continuing along said North line, 234.72 feet; thence South 46°51'05" West, continuing along said North line, 149.10 feet; thence South 44°22'31" West, continuing along said North line, 282.93 feet; thence South 40°22'50" West, continuing along said North line, 643.07 feet; thence South 52°02'51" West, continuing along said North line, 40.24 feet; thence North 87°23'50" West, continuing along said North line, 233.69 feet to a point on the West line of said Northwest Quarter; thence North 02°36'10" East, along said West line, 1,408.84 feet to the Point of Beginning. Containing 1,180,138 square feet or 27.09 acres, more or less.



SUMMARY OF QUANTITIES			
ITEM	UNIT	PLAN	AS-BUILT
8" Sanitary PVC (SDR-26)	L.F.	1,858.90	1,860.33
Manholes, Std. 4' Dia.	Ea.	6	6
Drop Manholes, Std. 4' Dia.	Ea.	1	1
Connections to existing M.H.	Ea.	1	1
Service Wye	Ea.	46	46*
4" Lateral Pipe	L.F.	2,186.27	2,186.27*

* As Provided By Contractor

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

- 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.
- 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.

AS BUILT

DATE: 11.14.2017

INDEX OF SHEETS

COVER SHEET	C201
SANITARY GENERAL NOTES	C202
SANITARY GENERAL LAYOUT	C203
SANITARY PLAN & PROFILES	C204-C205
SANITARY DETAIL SHEET	C206-C207
SANITARY TABLES	C208

DEVELOPER:

Hunt Midwest Real Estate Development Inc.
8300 NE Underground Drive
Kansas City, MO 64161
Phone #: 816.455.2900
Contact Person: Aaron Schmidt

REVIEWED BY:

City of Lee's Summit

Date

Olsson Associates, has been retained to provide as-built drawings for this project.

Melissa G DeGonia
Civil Engineer
MO# 2011000892

Date

The Policy of the "Plan Preparation Criteria and Procedure" and Policy Document No. 880544 "As-Built Drawings for Sewer Built by Permit" stipulate the following regarding "as-built" drawings: 1. Drawings are to be provided within thirty (30) days after the date the "Request for As-Built" letter is issued by the City to the contractor. 2. Drawings must be accepted by the City before any service connections will be allowed. 3. Drawings are part of the permit obligations making them the responsibility of the permittee. 4. The cost of preparing "as-built" drawings shall be included in the performance bond.



UTILITY SERVICE NUMBERS	
LEE'S SUMMIT PUBLIC WORKS	816-969-1800
LEE'S SUMMIT WATER & SEWER DEPARTMENT	816-696-1940
MISSOURI GAS ENERGY	816-756-5252
TIME WARNER CABLE	816-358-5360
AT&T	800-286-8313
KCP&L	816-471-5275

Record Drawing



BY	REVISIONS DESCRIPTION
	Prepared for City Submittal
	As-Built Submittal

NO.	REV.	DATE
		01.12.2017
		11.14.2017

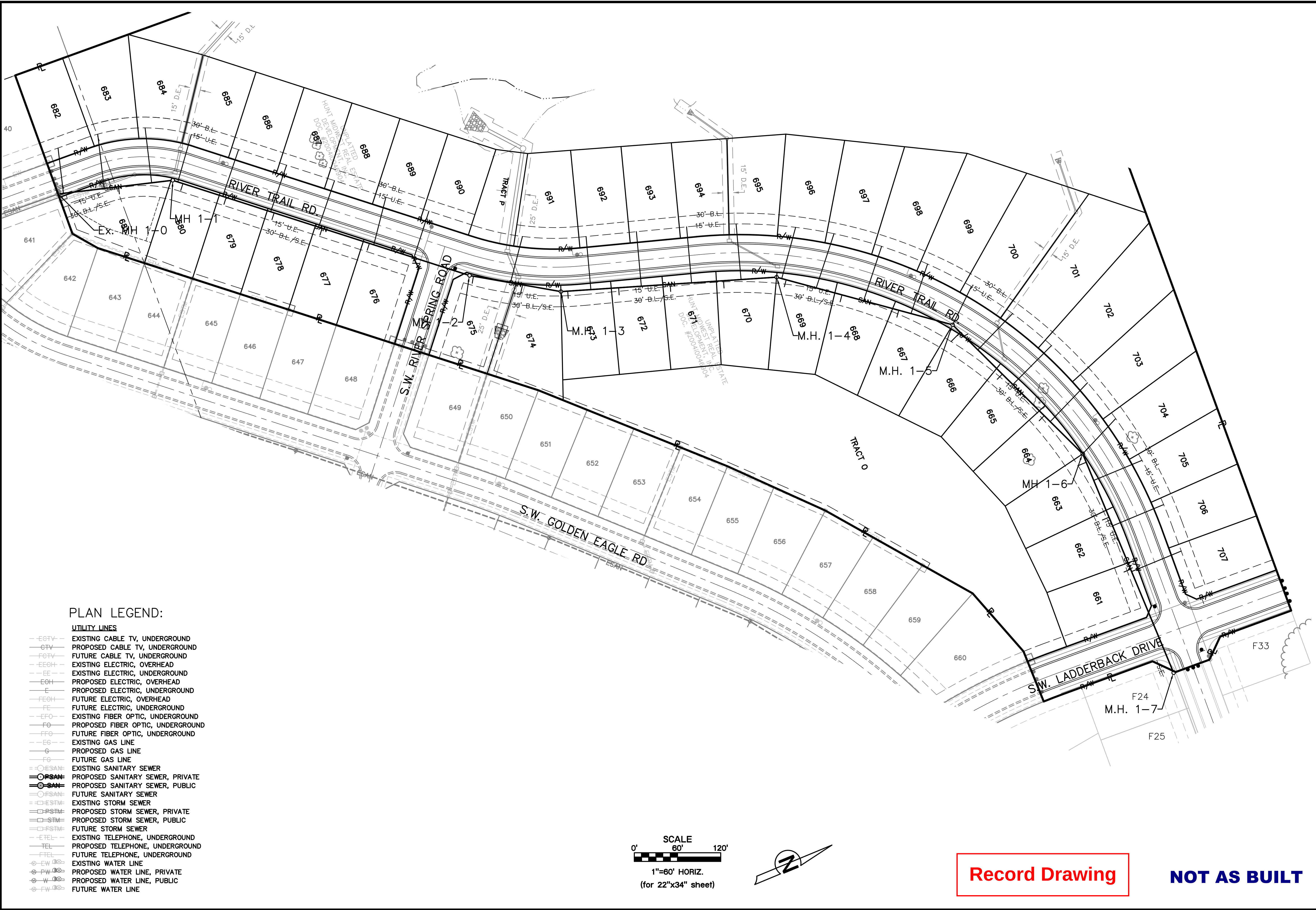
COVER SHEET	2016
EAGLE CREEK 15TH PLAT	
LEE'S SUMMIT, MISSOURI	

drawn by: D.A.H.O.
design by: P.M.D.
approved by: M.G.D.
QA/QC by: M.G.D.
project no.: 016-3432
date: 2016/12/05

SHEET
C201

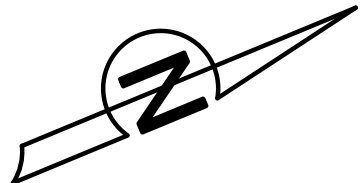
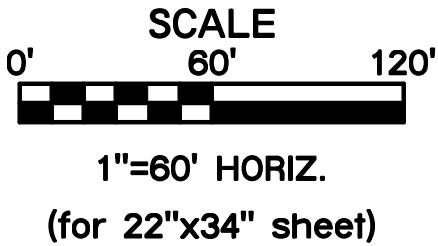
HORIZONTAL CONTROL (CONTROL POINT INFORMATION) IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83). THE DEVELOPER IS ADVISED TO USE CONTROL POINT INFORMATION FOR HORIZONTAL CONTROL.

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DATE: Feb 23, 2017 6:11pm
USER: dherandez



PLAN LEGEND:

- UTILITY LINES**
- EOTV--- EXISTING CABLE TV, UNDERGROUND
 - OTV--- PROPOSED CABLE TV, UNDERGROUND
 - FOTV--- FUTURE CABLE TV, UNDERGROUND
 - EEOH--- EXISTING ELECTRIC, OVERHEAD
 - EOH--- PROPOSED ELECTRIC, OVERHEAD
 - E--- PROPOSED ELECTRIC, UNDERGROUND
 - FEOH--- FUTURE ELECTRIC, OVERHEAD
 - FE--- FUTURE ELECTRIC, UNDERGROUND
 - EFO--- EXISTING FIBER OPTIC, UNDERGROUND
 - FO--- PROPOSED FIBER OPTIC, UNDERGROUND
 - FFO--- FUTURE FIBER OPTIC, UNDERGROUND
 - EG--- EXISTING GAS LINE
 - G--- PROPOSED GAS LINE
 - FG--- FUTURE GAS LINE
 - OESAN--- EXISTING SANITARY SEWER
 - PSAN--- PROPOSED SANITARY SEWER, PRIVATE
 - SAN--- PROPOSED SANITARY SEWER, PUBLIC
 - FSAN--- FUTURE SANITARY SEWER
 - OESTM--- EXISTING STORM SEWER
 - PSTM--- PROPOSED STORM SEWER, PRIVATE
 - STM--- PROPOSED STORM SEWER, PUBLIC
 - FSTM--- FUTURE STORM SEWER
 - ETEL--- EXISTING TELEPHONE, UNDERGROUND
 - TEL--- PROPOSED TELEPHONE, UNDERGROUND
 - FTEL--- FUTURE TELEPHONE, UNDERGROUND
 - EW--- EXISTING WATER LINE
 - PW--- PROPOSED WATER LINE, PRIVATE
 - W--- PROPOSED WATER LINE, PUBLIC
 - FW--- FUTURE WATER LINE



Record Drawing

NOT AS BUILT

SANITARY GENERAL LAYOUT

EAGLE CREEK
15TH PLAT

LEE'S SUMMIT, MISSOURI

drawn by: D.A.H.O

design by: P.M.D

approved by: M.G.D

QA/QC by: M.G.D

project no.: 016-3432

date: 2016/12/09

NO. REV.

DATE

REVISIONS DESCRIPTION

BY

REVISIONS

01.12.2017

01.12.2017

Prepared for city Submit

11.14.2017

As-built Submit

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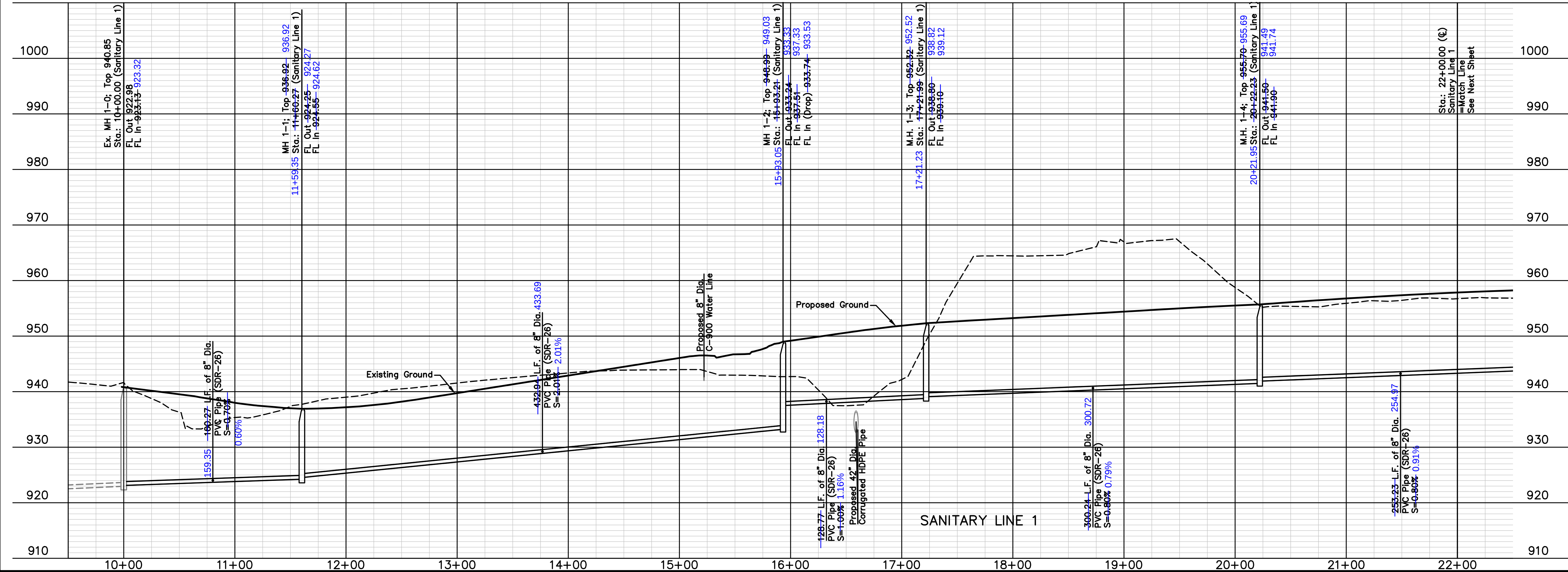
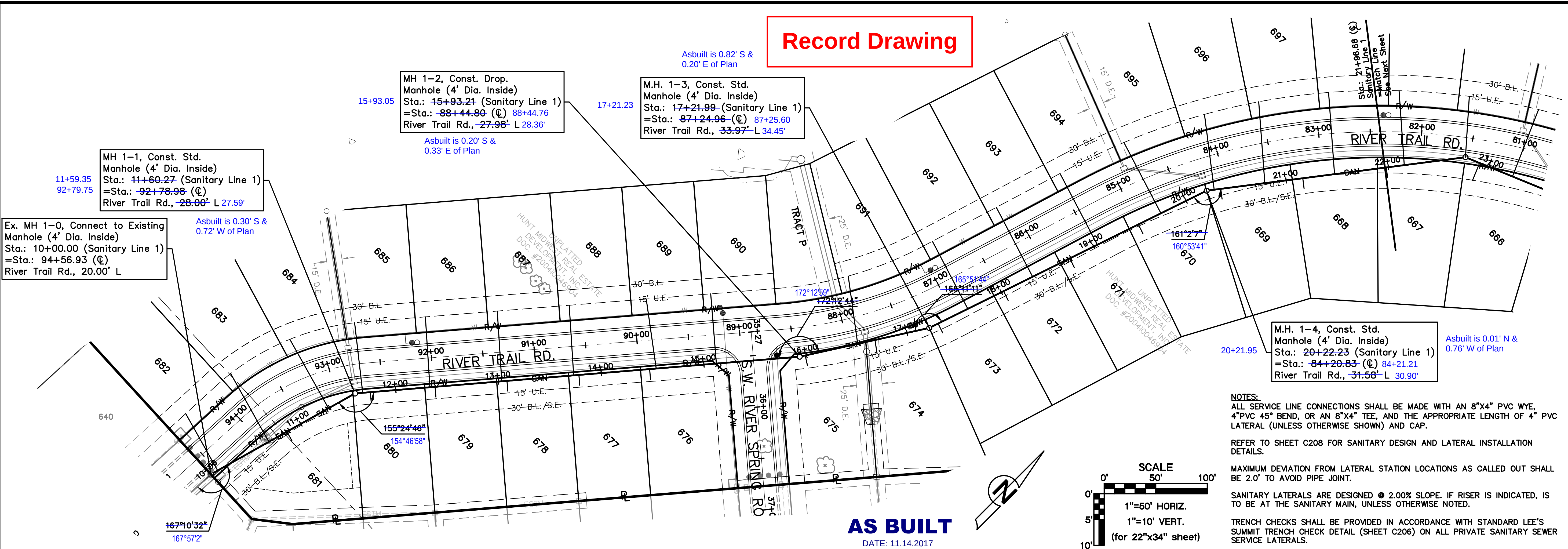
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OLSSON ASSOCIATES

Olsson Associates, Civil Engineering
Missouri Certificate of Authority # 2007022924
1301 Burlington, Suite 100
North Kansas City, MO 64116
TEL 816.587.4320
FAX 816.587.1393
www.olssonassociates.com

STATE OF MISSOURI
MELISSA G. DECONIA
NUMBER
PE-2011000892
3-5-18
PROFESSIONAL ENGINEER

BY
NO. REV. DATE
1 01.12.2017 Prepared for city Submit
01.12.2017 Sanitary notes added
11.14.2017 As-builes Submit

REVISIONS DESCRIPTION

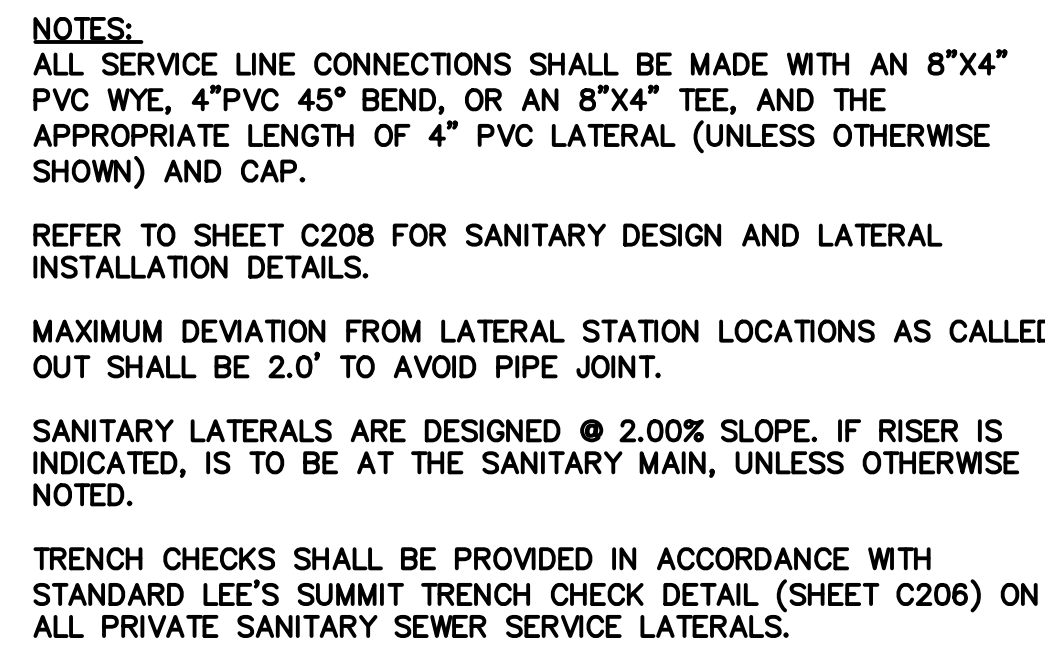
REVISIONS

SANITARY PLAN & PROFILE
EAGLE CREEK 15TH PLAT
LEE'S SUMMIT, MISSOURI

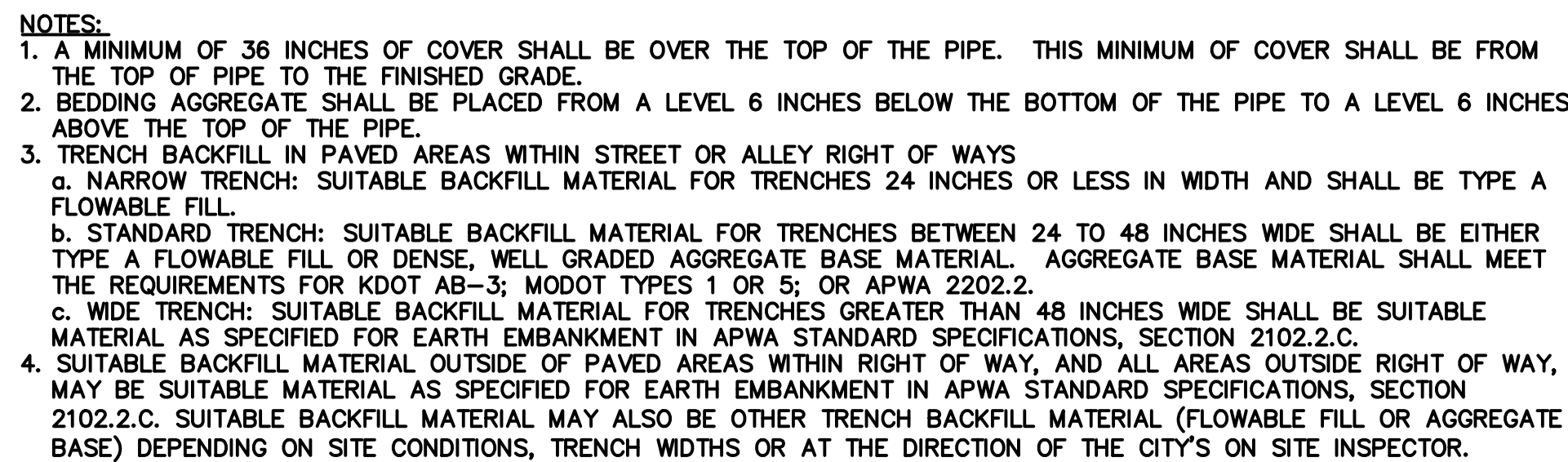
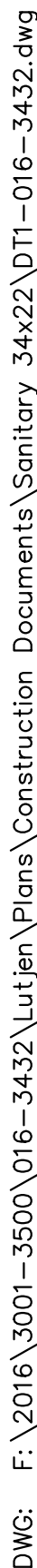
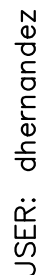
2016

drawn by: D.A.H.O.
design by: P.M.D.
approved by: M.G.D.
QA/QC by: M.G.D.
project no.: 016-3432
date: 2016/12/09

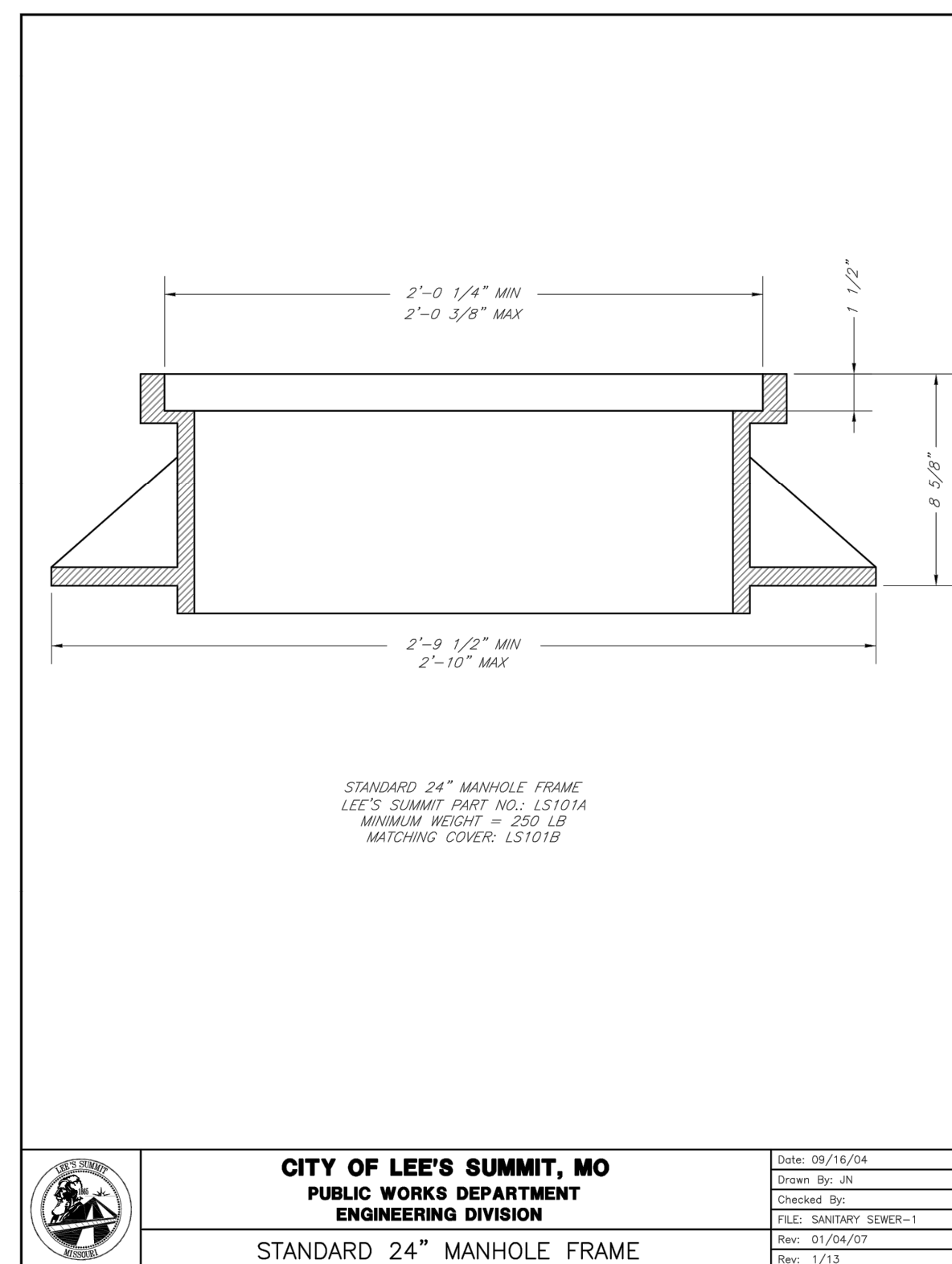
SHEET C204



drawn by: _____ D.A.H.O. design by: _____ P.M.D. approved by: _____ M.G.D.D. QA/QC by: _____ M.G.D.D. project no.: _____ 016-3432 date: _____ 2016/12/05		SANITARY PLAN & PROFILE EAGLE CREEK 15TH PLAT LEE'S SUMMIT, MISSOURI		NO. REV. DATE REVISIONS DESCRIPTION BY		1 01.17.2017 Prepared for city Submittal JES		2 01.17.2017 Sanitary notes added		3 11.14.2017 As-built Submittal		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
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Record Drawing



Sanitary Sewer Laterals					
Lot Number	Lateral Station	Lateral Length	Riser	Flowline at End of Lateral	Minimum Servicable Floor Elevation
		(ft)	(ft)	(ft)	(ft)
661	27+03.28	10.00	4.0	972.5	975.33
662	26+25.11	10.00	4.0	967.7	970.54
663	25+42.51	12.39	4.0	962.7	965.52
664	24+54.54	10.00	2.0	955.5	958.34
665	23+72.66	10.00	1.0	950.9	953.68
666	22+90.30	18.01	1.0	947.3	950.14
667	21+97.96	10.00	2.0	946.5	949.27
668	21+16.28	10.00	2.0	945.8	948.61
669	20+36.05	10.00	1.0	944.2	946.99
670	19+48.36	10.17	1.0	943.1	945.89
671	18+74.11	10.00	1.0	942.5	945.30
672	18+02.41	10.00	1.0	941.9	944.73
673	17+31.54	10.00	1.0	941.4	944.16
674	16+67.70	13.35	1.0	940.5	943.31
675	15+98.71	10.00	0.0	938.8	941.57
676	14+47.14	10.00	2.0	933.5	936.27
677	13+78.27	10.00	1.0	931.1	933.91
678	13+08.26	10.00	0.0	928.7	931.52
679	12+38.26	10.00	0.0	927.3	930.12
680	11+75.27	10.00	0.0	926.1	928.85
681	10+84.50	10.00	1.0	925.9	928.70
682	10+07.50	63.34	3.0	928.4	931.19
683	10+64.50	75.87	0.0	926.1	928.90
684	11+30.87	76.73	0.0	926.5	929.29
685	11+66.67	68.54	0.0	927.0	929.85
686	12+33.56	68.40	0.0	928.4	931.19
687	13+03.59	68.27	0.0	929.8	932.59
688	13+73.90	68.14	0.0	931.2	934.00
689	14+51.22	68.13	1.0	933.7	936.54
690	15+12.16	67.88	2.0	935.9	938.73
691	16+53.61	66.24	0.0	940.4	943.24
692	17+62.04	73.98	0.0	941.9	944.70
693	18+32.28	76.00	0.0	942.5	945.30
694	19+02.35	78.02	0.0	943.1	945.90
695	19+71.24	77.51	0.0	943.6	946.44
696	20+29.65	73.64	0.0	944.0	946.83
697	20+81.63	79.15	0.0	945.0	947.76
698	21+50.10	79.45	0.0	945.5	948.31
699	22+17.08	72.44	1.0	946.9	949.69
700	22+75.46	59.12	2.0	947.7	950.47
701	23+24.29	69.68	0.0	948.9	951.72
702	23+93.19	76.12	0.0	952.1	954.95
703	24+65.62	74.79	0.0	955.4	958.18
704	25+28.81	66.94	2.0	960.3	963.07
705	25+69.72	72.51	3.0	964.6	967.41
706	26+37.99	76.72	3.0	968.9	971.68
707	27+06.88	74.60	3.0	973.1	975.87

Sanitary Sewer Design Information											
Upstream Manhole	Downstream Pipe Slope	Downstream Pipe Diameter	Proposed Cumulative Area	Future Cumulative Area	Peak Base Flow	Peak Infiltration	Peak Inflow	Total Peak Flow	Downstream Pipe Mannings N	Downstream Pipe Capacity	Downstream Pipe Full Flow Velocity
	(%)	(in)	(Ac.)	(Ac.)	(gpd)	(gpd)	(cfs)	(cfs)		(cfs)	(fps)
Ex. MH 1-0	0.85%	8	13.42	2.55	23955.00	7985.00	0.44	0.49	0.013	1.11	3.19
MH 1-1	0.70%	8	12.22	2.55	22155.00	7385.00	0.41	0.45	0.013	1.01	2.89
MH 1-2	2.01%	8	9.54	2.55	18135.00	6045.00	0.34	0.38	0.013	1.71	4.91
MH 1-3	1.00%	8	8.59	2.55	16710.00	5570.00	0.32	0.35	0.013	1.21	3.47
MH 1-4	0.80%	8	6.25	2.55	13200.00	4400.00	0.26	0.28	0.013	1.08	3.09
MH 1-5	0.80%	8	3.96	2.55	9765.00	3255.00	0.20	0.22	0.013	1.08	3.10
MH 1-6	4.50%	8	1.66	2.55	6315.00	2105.00	0.14	0.15	0.013	2.56	7.34
MH 1-7	6.14%	8	0.00	2.55	3825.00	1275.00	0.09	0.10	0.013	2.99	8.57

NOT AS BUILT

NOTES:
ALL SERVICE LINE CONNECTIONS SHALL BE MADE WITH AN 8"x4" PVC WYE,
4"PVC 45° BEND, OR AN 8"x4" TEE, AND THE APPROPRIATE LENGTH OF 4" PVC
LATERAL (UNLESS OTHERWISE SHOWN) AND CAP.

MAXIMUM DEVIATION FROM LATERAL STATION LOCATIONS AS CALLED OUT SHALL BE 2.0' TO AVOID PIPE JOINT.

SANITARY LATERALS ARE DESIGNED @ 2.00% SLOPE. IF RISER IS INDICATED, IS TO BE AT THE SANITARY MAIN, UNLESS OTHERWISE NOTED.

TRENCH CHECKS SHALL BE PROVIDED IN ACCORDANCE WITH STANDARD LEE'S SUMMIT TRENCH CHECK DETAIL (SHEET C206) ON ALL PRIVATE SANITARY SEWER SERVICE LATERALS.

Record Drawing

SANITARY TABLES			
	EAGLE CREEK 15TH PLAT		
LEE'S SUMMIT, MISSOURI!		2016	

drawn by: _____ DAHO
design by: _____ P.M.D
approved by: _____ M.G.D
QA/QC by: _____ M.G.D
project no.: _____ 016-3432
date: _____ 2016/12/05

SHEET
C208