

Permit Review Drawings For

CREEKSIDE AT RAINTREE LOTS 1 THRU 31 AND TRACTS A THRU F

SANITARY SEWER PLANS

IN THE CITY OF LEE'S SUMMIT JACKSON & CASS COUNTY, MISSOURI

SECTION 31, TOWNSHIP 47 N, RANGE 31 W SECTION 32, TOWNSHIP 47 N, RANGE 31 W SECTION 5, TOWNSHIP 46 N, RANGE 31 W

HDR Project No. 10028402-276408 Lee's Summit, MO **April 2017**

PLAN SHEET INDEX

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01C-CR-SS-05	SANITARY SEWER DETAILS
01C-CR-SS-06	SANITARY SEWER DETAILS

OWNER CONTACT

J.P. Roberts Landrock Development, LLC 4335 McGee St Kansas City, MO 64111 jp@landrocksignaturehomes.com (816) 863-5588

CONSULTANT CONTACT

Simon Sun HDR Engineering, Inc. 4435 Main St, Suite 1000 Kansas City, MO 64111 simon.sun@hdrinc.com (816) 360-2765

UTILITIES

ELECTRIC: KCP&L	816-471-527
GAS: LACLEDE GAS, MISSOURI GAS ENERGY DIVISION	816-756-525
TELEPHONE: AT&T	816-325-560
CABLE: TIME WARNER	816-358-883
WATER: LEE'S SUMMIT WATER UTILITIES	816-969-190
SEWER: LEE'S SUMMIT PUBLIC WORKS	816-969-180
INTERCEPTOR SEWER: LITTLE BLUE VALLEY SEWER DISTRICT	816-796-766

CITY OF LEE'S SUMMIT PUBLIC WORKS DEPARTMENT DEVELOPMENT ENGINEERING GROUP

P&D/Codes

STREETS:	Approved Light-			
TRAFFIC:	Approved Fig.	. 00	Date:	12/2/1
₩ <i>(68/S</i> T:	Approved 65	relyCost	exiety_	713/1
Approval by the	City Engineer, r	or of italine	does not rele	ease the
applicant from re	openalbilities to	com; ly with sandonlesse	all Uny of Let tauction oraci	ices.
mit Ordinances				
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LANDROCK **DEVELOPMENT, LLC**

CREEKSIDE AT RAINTREE LOTS 1 THRU 31 LEE'S SUMMIT, MISSOURI

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- 8	04/20/2017	CITY RESUBMITTAL
A	03/08/2017	CITY SUBMITTAL
MARK	DATE	DESCRIPTION
PROJEC	T NUMBER	10028825-276408
ORIGINA		. MARCH 7, 2017
PROJECT	T MANAGER	SIMON SUN
	TENGINEER	WILL NEDS, E.I.T.
		<u> </u>



COVER SHEET

01C-CR-SS-00

FILE NAME 01C-CR-SS-00.dwg

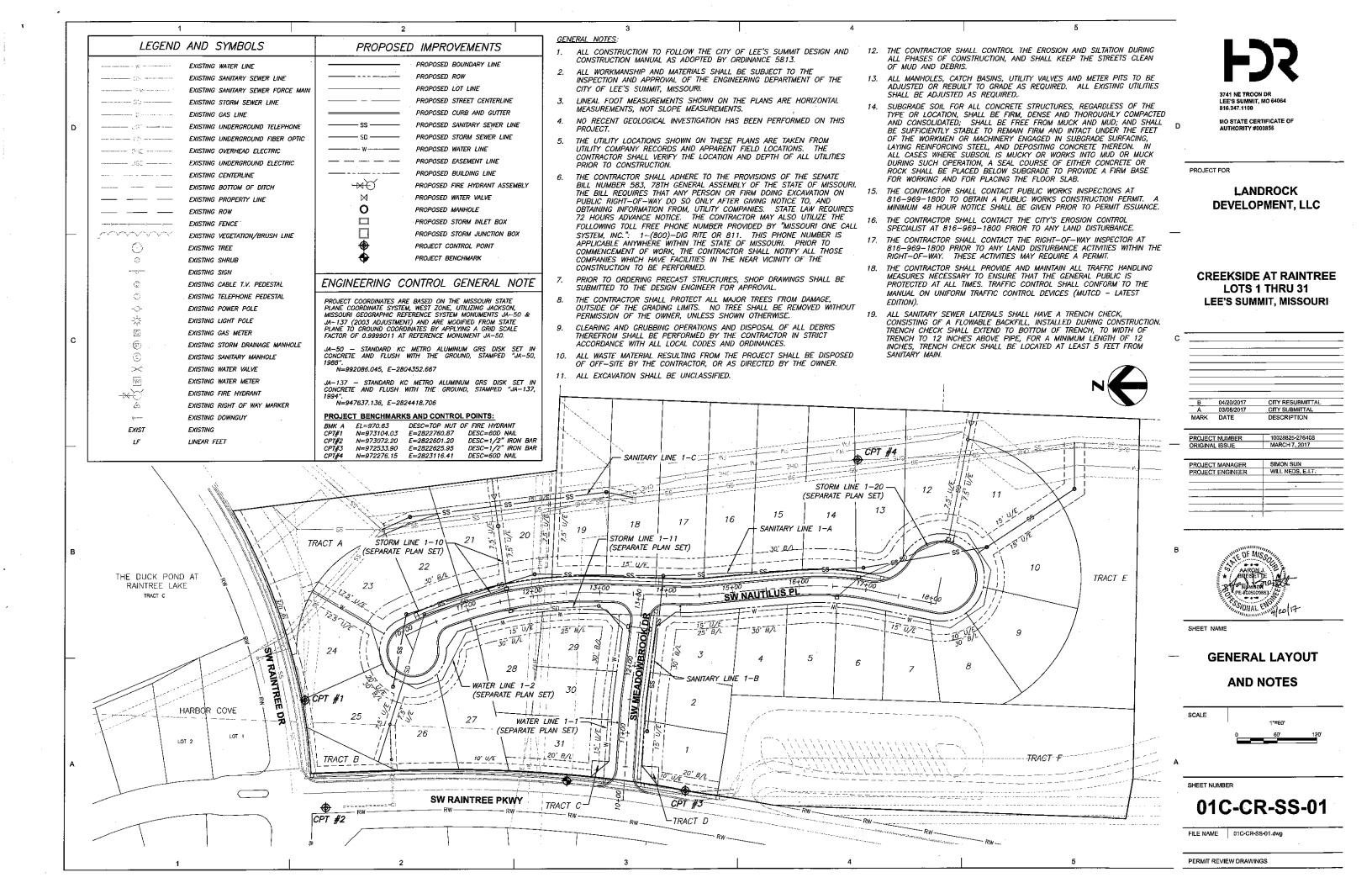
PERMIT REVIEW DRAWINGS

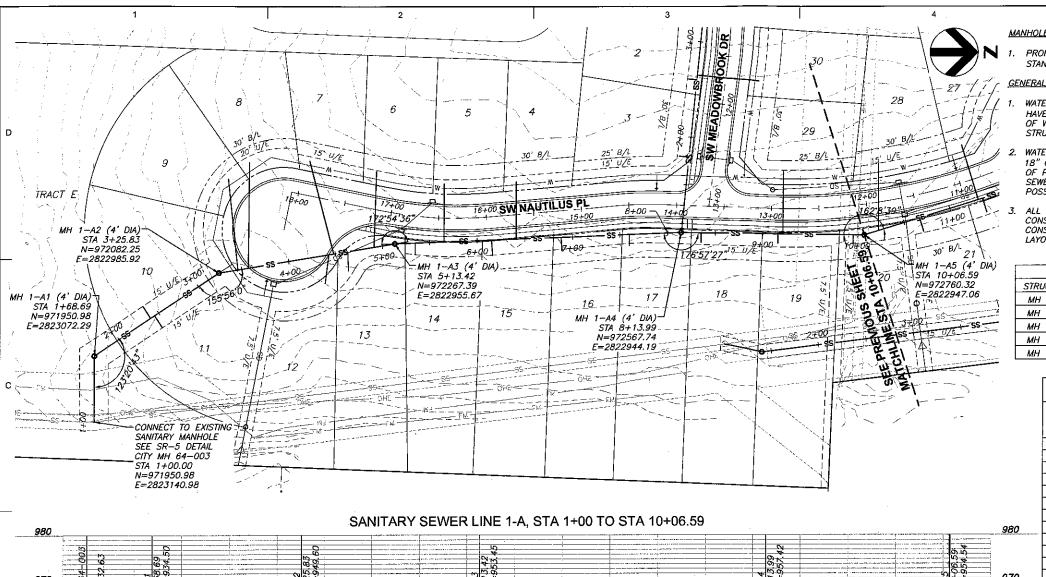


UTILITY NOTES

VISUAL INDICATIONS OF UTILITIES ARE AS SHOWN. UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES IN MISSOURI, CALL 1-800-344-7483.

PRPWFR20171420





MANHOLE STRUCTURE NOTE:

PROPOSED MANHOLES SHALL CONFORM TO LEE'S SUMMIT STANDARD DETAILS (SAN-2, SAN-3, AND SAN-4).

GENERAL NOTES:

- WATER MAINS AND SANITARY SEWER MAINS/STRUCTURES SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION FROM EDGE OF WATER PIPE TO EDGE OF SEWER PIPE OR SEWER
- WATER MAINS AND SANITARY SEWERS SHALL HAVE AT LEAST 18" OF VERTICAL SEPARATION FROM EDGE OF PIPE TO EDGE OF PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- ALL SANITARY SEWER LATERALS SHALL HAVE A TRENCH CHECK, CONSISTING OF FLOWABLE BACKFILL, INSTALLED DURING CONSTRUCTION. REFER TO GENERAL NOTE 19 ON GENERAL LAYOUT SHEET FOR ADDITIONAL INFORMATION.

SANITARY SEWER STRUCTURE TABLE						
STRUCTURE	STREET NAME					
MH 1-A1	19+76.80, 208.44' LT	SW NAUTILUS PL				
MH 1-A2	18+56.36, 97.65' LT	SW NAUTILUS PL				
MH 1-A3	16+91.45, 31.63' LT	SW NAUTILUS PL				
MH 1-A4	13+94.09, 28.26' LT	SW NAUTILUS PL				
MH 1-A5	12+06.09, 31.84' LT	SW NAUTILUS PL				

LINE 1-A - LATERAL TABLE MAIN MAIN INV MIN INV LATERAL LOT

	STATION	@ LATERAL	@ END LATERAL	LENGTH	SERVED
	2+40	932.49	934.12	15 LF	10
	2+45	932.73	934.36	10 LF	11
	3+46	937.39	940.62	95 LF	9
	3+57	937.50	941.03	110 LF	8
	3+43	937.36	939.29	30 LF	12
	4+48	938.40	941.73	100 LF	7
	4+63	938.55	940.48	30 LF	13
0	4+91	938.83	941.66	75 LF	6
	5+35	939.75	941.28	10 LF	14
	5+65	940.05	942.68	65 LF	5
	6+15	940.55	942.08	10 LF	15
0	6+41	940.80	943.43	65 LF	4
	6+88	941.27	942.80	10 LF	16
	7+60	941.99	943.52	10 LF	17
	8+35	942.89	945.75	10 LF	18
0	9+16	943.53	945.06	10 LF	19
	9+21	943.78	946.41	65 LF	29
	9+95	944.15	945.68	10 LF	20
					Teluan.



3741 NE TROON DR LEE'S SUMMIT, MO 64064 816.347.1100

MO STATE CERTIFICATE OF AUTHORITY #000856

PROJECT FOR

LANDROCK DEVELOPMENT, LLC

CREEKSIDE AT RAINTREE LOTS 1 THRU 31 LEE'S SUMMIT, MISSOURI

В	04/20/2017	CITY RESUBMITTAL
- <u>R</u>	03/08/2017	CITY SUBMITTAL
MARK	DATE	DESCRIPTION
PROJE <u>C</u>	T NUMBER	10028825-276408
ORIGINA	L ISSUE	MARCH 7, 2017
PROJEC	T MANAGER	SIMON SUN
DDO IEC	T ENGINEER	WILL NEDS, E.I.T.

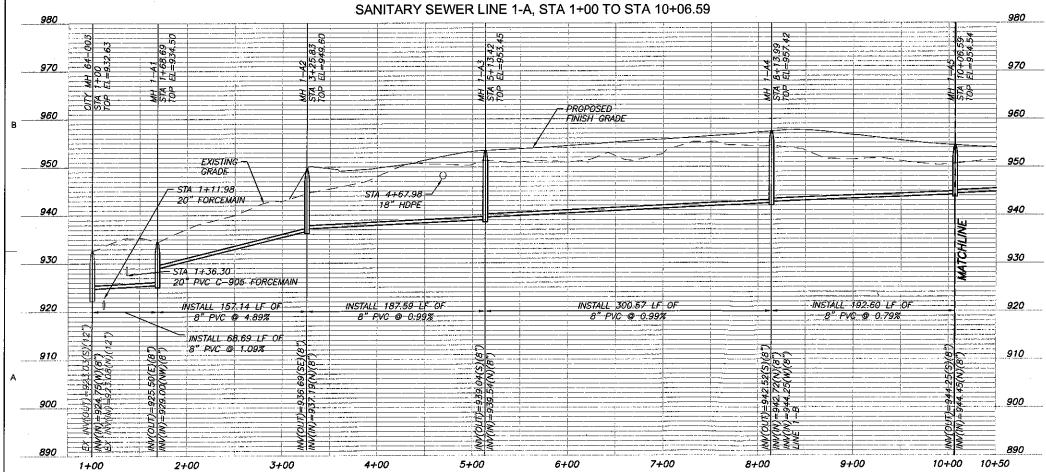


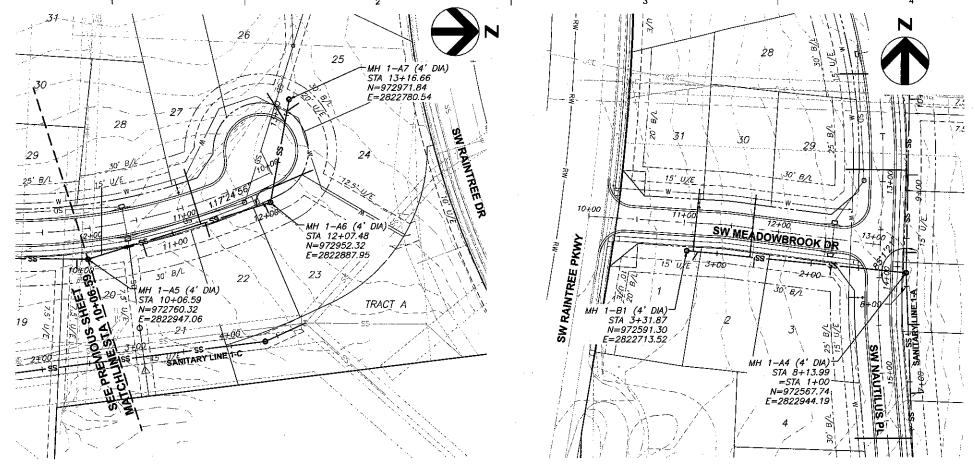
SANITARY SEWER PLAN AND PROFILE LINE 1-A STA 1+00 TO STA 10+06.59

SCALE		1"=50"	
	0	50'	100'

01C-CR-SS-02

FILE NAME 01C-CR-SS-02.dwg





980	OANTAKI OEWEKE	INE 1-A, STA 10+06.	980	1000	SANITARY SE		100
970	#5 65 # 6 90 + 01 PROPOSED #4 FINISH GR	MH 7-46 STA 12+07.48 TOP EL=956.77	55. 90 K. 90 K. 90 K. 90 K. 90 K. 90 K. 90 K. 970 1 K. 1	990	MH 1-B1 574 34-37-67 700 EL-967-25	MH 1-44 57A 1+00:00 70P EL=957.42	99
960		- EXISTING GRADE	960	980	3 0,2	7 × × × × × × × × × × × × × × × × × × ×	98
950		STA 13 8" 0+51.83 ORM SEWER	#03.29 WATER 950	970	PROPOS FINISH	GRADE S	97
940	10-LF OF ENCASEME! 10+47 10	CONCRETE VI STA. STA 10+57	940	960		EXISTING OF GRADE	96
930			930	950			95
920	INSTALL 200.	0.90% OF	109.18 LF 920 8" PVC 1.01%	940	INSTALL 2	WATER 31.87 LF OF	94
910	(8,)	(5)(87)	© 910	930	8" PVC	-@ 5.07% (93
900	0.05 - 944 - 25 - 944	0017)=946.25 NV)=946.75(NV)	900 900	920	00 - 956 00 00 00 00 00 00 00	7 - A 1 - A 4.2 70 (N) (8) 1 - 944. 26 (W) (8) 10 - 942. 52 (S) (8)	92
890	O SON		890	910	2	NAVEN OUT	91

MANHOLE STRUCTURE NOTE:

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GENERAL NOTES:

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- 2. WATER MAINS AND SANITARY SEWERS SHALL HAVE AT LEAST 18" OF VERTICAL SEPARATION FROM EDGE OF PIPE TO EDGE OF PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- 3. ALL SANITARY SEWER LATERALS SHALL HAVE A TRENCH CHECK, CONSISTING OF FLOWABLE BACKFILL, INSTALLED DURING CONSTRUCTION. REFER TO GENERAL NOTE 19 ON GENERAL LAYOUT SHEET FOR ADDITIONAL INFORMATION.

SANITARY SEWER STRUCTURE TABLE						
STRUCTURE	STATION & OFFSET	STREET NAME				
MH 1-A6	· 10+13.95, 27.97 LT	SW NAUTILUS PL				
MH 1-A7	9+49.96, 60.31' RT	SW NAUTILUS PL				
MH 1-B1	11+04.56, 29.27' RT	SW MEADOWBROOK DR				

LINE 1-A - LATERAL TABLE							
MAIN STATION	MAIN INV @ LATERAL	MIN INV @ END LATERAL	LATERAL LENGTH	LOT SERVED			
10+22	944.58	947.31	70 LF	28			
10+67	944.89	946.52	15 LF	21			
11+31	945.56	948.08	60 LF	27			
11+36	945.60	947.23	15 LF	22_			
12+01	945.14	946.67	10 LF	23			
12+24	946.92	949.15	45 LF	24			
12+93	947.61	949.64	35 LF	26			
13+04	947.72	949.35	15 LF	25			

MAIN	MAIN INV	MIN INV	LATERAL	LOT
STATION	@ LATERAL		LENGTH	SERVED
SIAIIUN	W LATERAL	LATERAL	LENGIN	SERVED
1+79	948.26	949.79	10 LF	3
2+60	952.36	953.89	10 LF	2
2+65	952.62	955.25	65 LF	30
3+20	955.40	956.93	10 LF	1
3+25	955.66	958.29	65 LF	31



3741 NE TROON DR LEE'S SUMMIT, MO 64064 816.347.1100

MO STATE CERTIFICATE OF AUTHORITY #000856

PROJECT FOR

LANDROCK DEVELOPMENT, LLC

CREEKSIDE AT RAINTREE LOTS 1 THRU 31 LEE'S SUMMIT, MISSOURI

В	04/20/2017	CITY RESUBMITTAL
B A	04/20/2017 03/08/2017	CITY RESUBMITTAL

PROJECT NUMBER	10028825-276408
ORIGINAL ISSUE	MARCH 7, 2017

PROJECT MANAGER	SIMON SUN
PROJECT ENGINEER	WILL NEDS, E.I.T.
	<u> </u>
	1



SHEET NAME

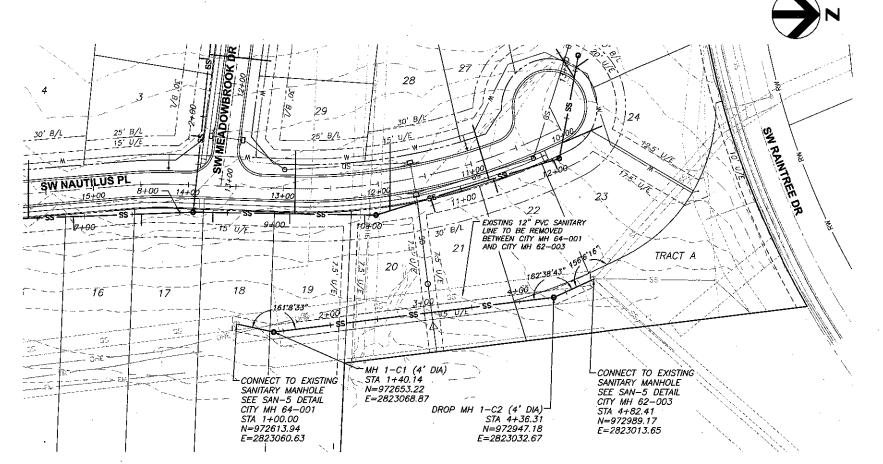
SANITARY SEWER
PLAN AND PROFILE
LINE 1-A STA 10+06.59
TO END LINE 1-B

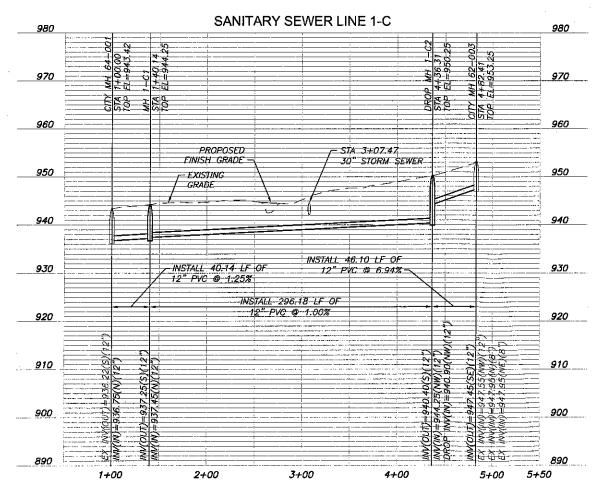
SCALE 1"=50" 0 50' 100'

SHEET NUMBER

01C-CR-SS-03

FILE NAME 01C-CR-SS-03.dwg





MANHOLE STRUCTURE NOTE:

1. PROPOSED MANHOLES SHALL CONFORM TO LEE'S SUMMIT STANDARD DETAILS (SAN-2, SAN-3, AND SAN-4).

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SANITARY SEWER STRUCTURE TABLE				
STRUCTURE	STATION & OFFSET	STREET NAME		
MH 1-C1	13+04.19, 149.79' LT	SW NAUTILUS PL		
MH 1-C2	10+66.35, 159.63' LT	SW NAUTILUS PL		



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A	03/08/2017	CITY SUBMITTAL
MARK	DATE	DESCRIPTION

ORIGINAL ISSUE	MARCH 7, 2017
PROJECT MANAGER	SIMON SUN
PROJECT ENGINEER	WILL NEDS, E.I.T.
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ARON J
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SON

SHEET NAME

SANITARY SEWER PLAN AND PROFILE LINE 1-C

SCALE 1"=50"
0 50' 100'

SHEET NUMBER

01C-CR-SS-04

FILE NAME 01C-CR-SS-04.dwg

SEWER MAIN).

3. 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.

4. SEE SPECFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL

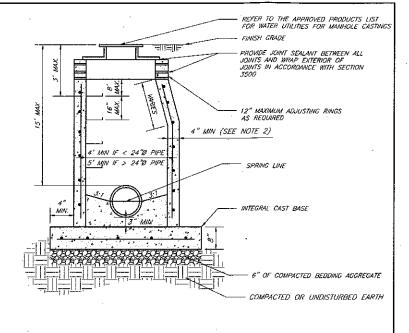
5. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED, TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.

6. FOR SERVICES, TRACER WIRE SHALL RUIN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP, WIRE SHALL BE TAPED OR THED TO THE PIPE AT 5" INTERVALS.

7. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0" OF PROPERTY LINE.

8. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE, SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTIONS. WIRE NUTS SHALL NOT BE USED. A WATER—PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

LEE'S SUMMIT Drawn By: SC MISSOURI Checked By. DL BUILDING SEWER STUB AND RISER



NOTES:

1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS.

2. A WALL THICKNESS NOT LESS THAN ONE—TWELFTH. (%) OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED WHEN THE MANHOLE OEPTH IS LESS THEN 15'.

3. WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF MOT LESS THAN 14 MILS OF BITUMINOUS COATING.

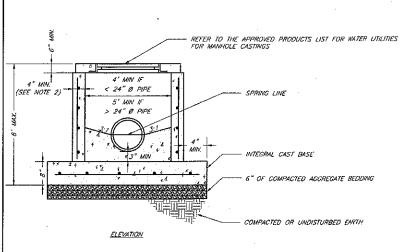
4. ONLY ECCENTRIC MANHOLE COMES WILL BE ALLOWED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

5. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION MYD THE FLOW LINE.

6. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR APPROVED MANHOLE GASKET MODELS.

7. REFER TO THE APPROVED PRODUCTS LIST FOR APPROVED STEPS.

		IEE	'S SUM	M			Date: 02/13
\sim 1			2 20M	V			Drawn By: JN
		М	ISSOU	R	1		Checked By: DL
571	PUBLI	C WORKS ENG:NEERING C	ITVISION 220 SE GREEN ST	REET	LEE'S SUMMIT, MO 64063		FILE: SAN-2
	STANDARD	DDECACT	MANILIOLE		CANITADY	CEWED	Rey: 1/14
	DIANDARD	PICECHOL	MANHULL	_	SAMITART	SEMEK	Rev:



- 1. PRECAST COURKELE MARKILLES SPAIL CONFORM TO ASIM CATE EXCEPT AS MODIFIED BY THE SPECIFIANTIANS.

 2. A WALL THICKNESS NOT LESS THAN ONE—TWELFTH (1/12) OF THE INSIDE DUMETER OR 4", WHICHEVER IS GREATER SHALL BE USED.

 3. WAFERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THEN 14 MILS OF BITUMINOUS COATING.

 4. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION INTO THE FLOW LINE.

 5. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR MANHOLE GASKET MODELS.
- 6. PROVIDE STEPS AS SHOWN ON THE APPROVED PRODUCTS LIST FOR MANHOLE DEPTHS GREATER THAN 4"

SAN-3

LEE'S SUMMIT	Bate. 02/13
FEE 9 20 IANIAN	Drawn By: UN
MISSOURI	Checked By: DL
PUBLIC WORKS ENGINEERING DIVISION \$ 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	FILE: SAN-3
 SHALLOW PRECAST MANHOLE - SANITARY SEWER	Rev: 1/14
 SHALLOW PRECASI MANHOLL - SANHARI SEWER	Rev:

REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR MANHOLE CASTINGS

LEE'S SUMMIT, MO 64064 816.347.1100

MO STATE CERTIFICATE OF AUTHORITY #000856

PROJECT FOR

LANDROCK **DEVELOPMENT, LLC**

CREEKSIDE AT RAINTREE LOTS 1 THRU 31 LEE'S SUMMIT, MISSOURI

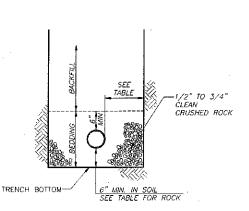
04/20/201 CITY RESUBMITTAL

PROJECT NUMBER

SIMON SUN
WILL NEDS, E.I.T.
-

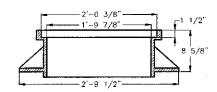
<u>SAN--1</u>

<u>SAN-2</u>



TYP PIPE ENVELOPE (PVC)

- MINIMUM TRENCH WIDTHS AND PIPE CLEARANCES (IN) CLEARANCE CLEARANCE NOMINAL PIPE (SOIL/ROCK) (SOIL/ROCK) DIAMETER WIDTH 6/6 6/6 6/6 6/6 22 10 24 6/6 6/6 6/6 6/6
- BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 2100 OF THE KCMETRO APWA SPECIFICATIONS.
- BEDDING MATERIAL SHALL BE 1/2" TO 3/4" CLEAN CRUSHED ROCK.
- 3. TRENCH BANKS SHALL BE CUT BACK ON SLOPES IN ACCORDANCE WITH CURRENT OSHA REGULATIONS. SLOPES MUST NOT EXTEND BELOW
- 4. ALL PUBLIC SANITARY SEWER MAINS SHALL BE 8" PVC, SDR--26, UNLESS NOTED OTHERWISE ON THE
- 5. ALL PRIVATE SANITARY SEWER LATERALS SHALL BE 4" PVC, SDR-26.
- 6. ALL WATER LINES SHALL HORIZONTALLY CLEAR STORM SEWER STRUCTURES BY 5' AND SANITARY SEWER STRUCTURES BY 10'. WATER MAINS SHALL VERTICALLY CLEAR STORM SEWER STRUCTURES AND SANITARY SEWER STRUCTURES BY 18".
- MAXIMUM TRENCH WIDTH SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS. MAXIMUM TRENCH WIDTH IS DEFINED AS THE HORIZONTAL PLANE MEASURED 6" ABOVE THE TOP OF PIPE PERPENDICULAR TO THE SEWER ALIGNMENT.



STANDARD 24" MANHOLE FRAME LEE'S SUMMIT PART NO.: LSTO1A MINIMUM WEIGHT = 250 LB MATCHING COVER: LS101B

NOTE

REFER TO WATER UTILITIES LIST OF APPROVED MANUFACTURER'S. 2'-0 3/8'

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24" MANHOLE COVER



SHEET NAME

STANDARD 24" MANHOLE COVER LEE'S SUMMIT PAR? NO: LS101B

MINIMUM WEIGHT = 160 LB

MATCHING FRAME: LS101A

NOTE: PICK HOLES NOT SHOWN

REFER TO WATER UTILITIES LIST

OF APPROVED MANUFACTURER'S.

NOTE:

SANITARY SEWER DETAILS

NO SCALE

SHEET NUMBER

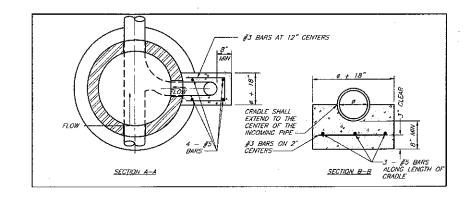
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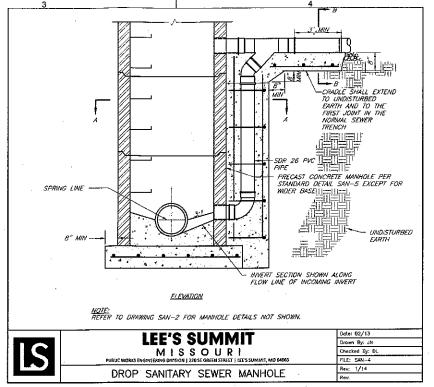
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PERMIT REVIEW DRAWINGS

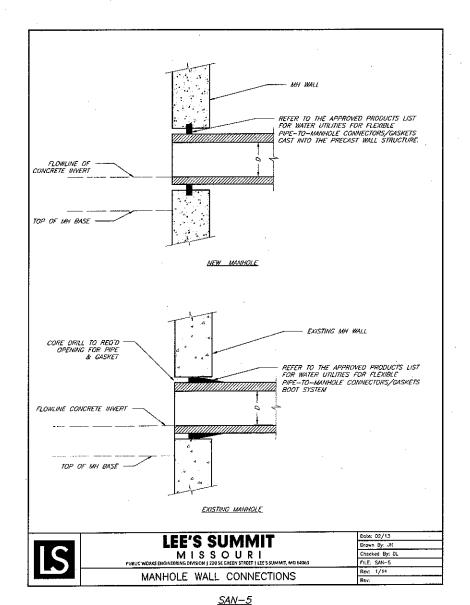
UNDERGROUND PIPE INSTALLATION FOR SANITARY SEWER LINES

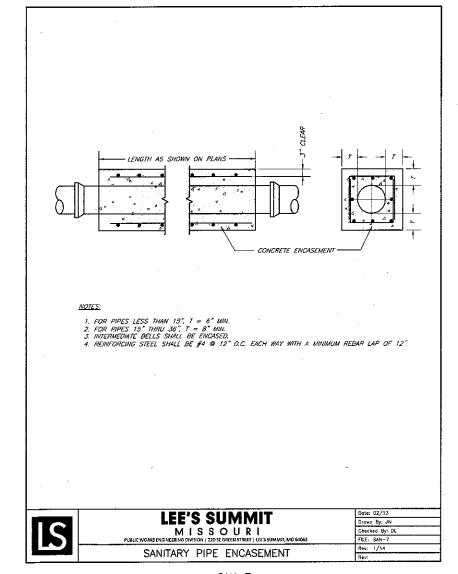






<u>SAN-4</u>





3741 NE TROON DR LEE'S SUMMIT, MO 64964 816.347.1100

MO STATE CERTIFICATE OF AUTHORITY #000856

PROJECT FOR

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PROJECT MANAGER	SIMON SUN
PROJECT ENGINEER	WILL NEDS, E.I.T.
-	
	1



SHEET NAME

SANITARY SEWER DETAILS

SCALE

NO SCALE

SHEET NUMBER

01C-CR-SS-06

FILE NAME 01C-CR-SS-06.dwg

<u>SAN-7</u>