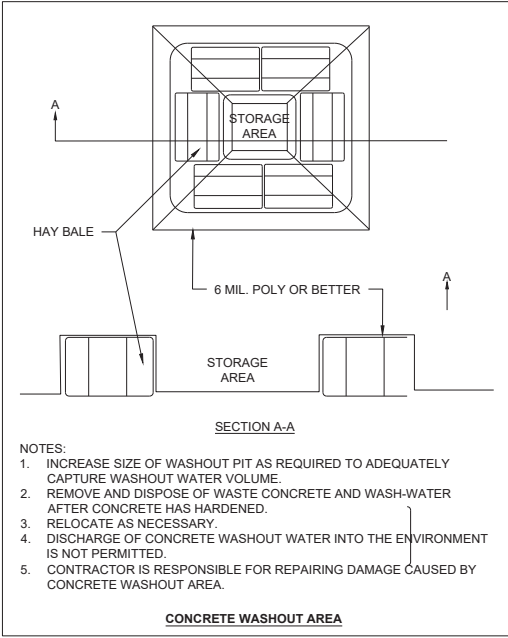
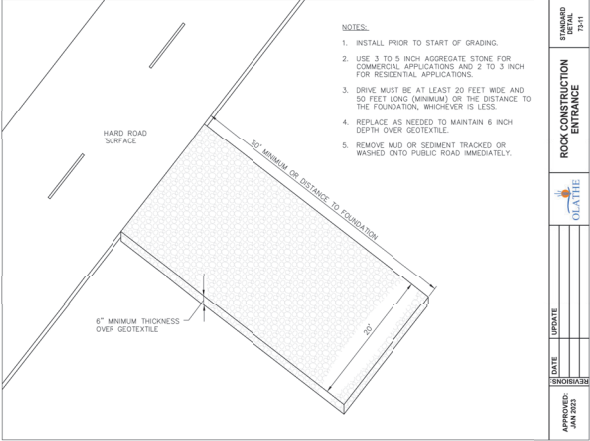
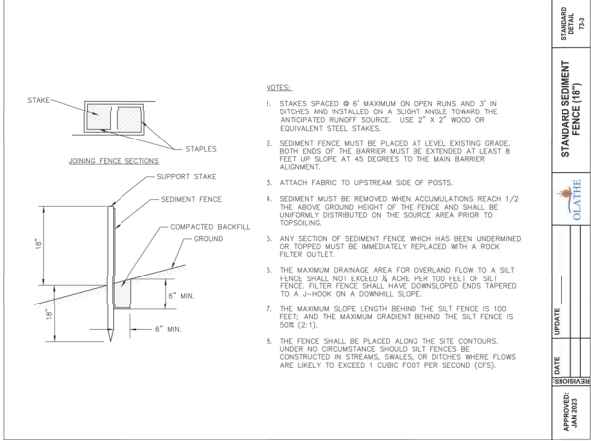
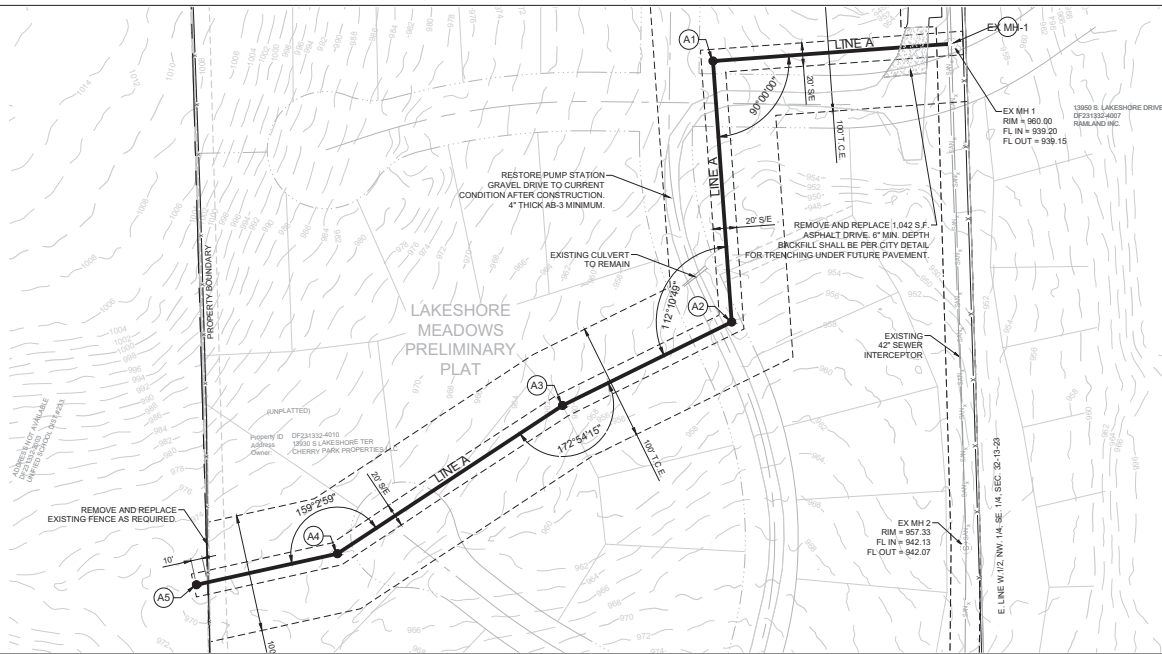


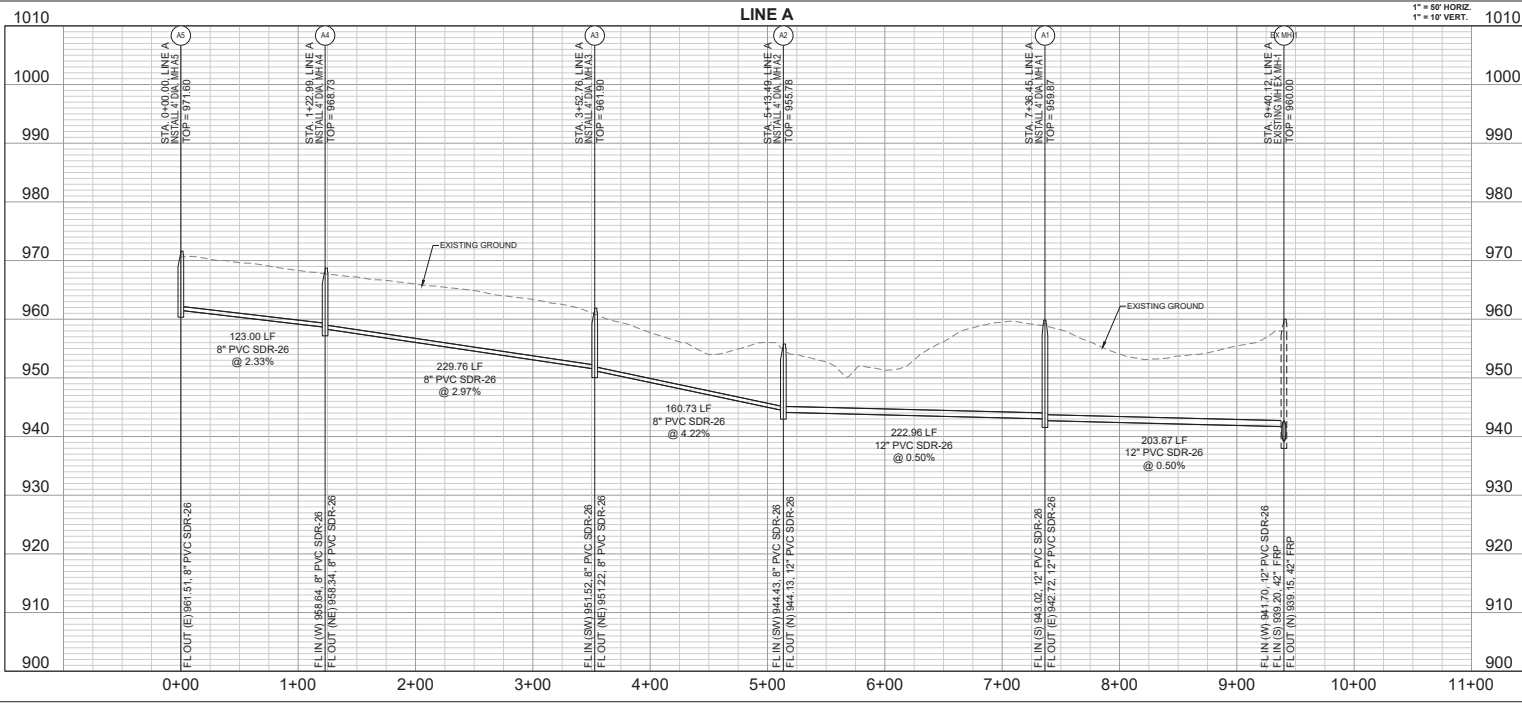




JOHNSON COUNTY BENCHMARK:
Bernstein Aluminum Disk Stamped BM 631
Set on the S.E. Corner of Headwall on South Side 143rd St.
ELEV. 946.82

PROJECT BENCHMARK:
POINT 4096 MONUMENT FOUND 1/2" RE-BAR PAND B CAP.
EASTING = 2.648300007
NORTHING = 9.328300007
ELEV. 962.53

Structure Table		
Structure Name	Structure Northing	Structure Easting
A1	212957.2016	2200060.4064
A2	212734.8079	2200616.2920
A3	212663.6769	2200473.1547
A4	212537.3234	2200280.2531
A5	212510.8891	2200160.1401



SCHLAGEL
PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
1435 S. 10TH AVE., SUITE 101
OATHE, KS 66440
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WWW.SCHLAGELASSOCIATES.COM
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KSCE 6A-29 A-5-04

PREPARED BY:

SCHLAGEL & ASSOCIATES P.A.

143RD STREET & ANDREWS AVE. SEWER
MAIN EXTENSION

143RD STREET & ANDREWS AVE. OATHE,
KANSAS

NO.	DATE	DESCRIPTION
1	01/11/2011	DESIGN
2	02/15/2011	REVISION
3	03/15/2011	REVISION
4	04/15/2011	REVISION
5	05/15/2011	REVISION
6	06/15/2011	REVISION
7	07/15/2011	REVISION
8	08/15/2011	REVISION
9	09/15/2011	REVISION
10	10/15/2011	REVISION
11	11/15/2011	REVISION
12	12/15/2011	REVISION
13	01/15/2012	REVISION
14	02/15/2012	REVISION
15	03/15/2012	REVISION
16	04/15/2012	REVISION
17	05/15/2012	REVISION
18	06/15/2012	REVISION
19	07/15/2012	REVISION
20	08/15/2012	REVISION
21	09/15/2012	REVISION
22	10/15/2012	REVISION
23	11/15/2012	REVISION
24	12/15/2012	REVISION

LINE A PLAN & PROFILE

SHEET
5



KOH Minimum Flows**														
Residential - Low Density				Residential - High Density				Commercial						
Manhole	Tributary Area (Acres)	Daily Flow		Peak Flow (MGD)	Tributary Area (Acres)	Daily Flow		Peak Flow (MGD)	Tributary Area (Acres)	Daily Flow		Peak Flow (MGD)	Total Peak Flow (MGD)	Total Peak Flow (MGD)
		Count	Rate	Count		Rate	Count	Rate		Count	Rate			
10.13	0.0795	0.3877	0.8192	0.00	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.00	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Design Variables:				Design Variables:				Design Variables:				Total		
1000 gallons per day per acre				2000 gallons per day per acre				1800 gallons per day per acre				0.1400		0.7240
Peaking factor of 5				Peaking factor of 5				Peaking factor of 5						
** Per KOH Minimum Standards of Design for Water Pollution Control Facilities, Sec. VI - Sanitary Sewer Design, minimum average design flows														

Olathe Minimum Flows														
ONSITE FLOWS				ONSITE FLOWS				OFFSITE FLOWS						
Manhole	Residential - Single Family		Peak Flow (MGD)	Residential - Multi-Family		Peak Flow (MGD)	Tributary Area (Acres)	Residential - Low Density		Peak Flow (MGD)	Tributary Area (Acres)	Residential - High Density		Peak Flow (MGD)
	Count	Rate		Count	Rate			Count	Rate			Count	Rate	
10.13	0.0795	0.1242	0.5860	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	
0.00	0.0000	0.1732	0.3130	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	
Design Variables:				Design Variables:				Design Variables:				Total		
Peak Rates per Table DCO03-1				Peak Rates per Table DCO03-1				Peak Rates per Table DCO03-2				0.1400		0.7240
Peak Rates per Table DCO03-1				Peak Rates per Table DCO03-1				Peak Rates per Table DCO03-2						

Olathe Minimum Flows																																			
ONSITE FLOWS												OFFSITE FLOWS																							
Residential - Single Family						Residential - Multi-Family						Residential - Low Density																							
Tributary Area			Average			Peak			Tributary Area			Average			Peak			Tributary Area			Average			Peak											
MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD										
MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD										
10.13	0.079	0.314	0.314	0.388	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.00	0.000	0.000	0.000										
0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.00	0.000	0.000	0.000										
Design Variables:						Design Variables:						Design Variables:						Design Variables:																	
Peaking factor of 5						Peaking factor of 5						Peaking factor of 5						Peaking factor of 5																	
Peak Rates per Table DC003-1						Peak Rates per Table DC003-1						Peak Rates per Table DC003-2						Peak Rates per Table DC003-2																	
Total												Total												Total											
0.1400												0.1400												0.1400											
0.7540												0.7540												0.7540											

PIPE CAPACITY CALCULATION											
LINE #	PIPE DEPTH (ft)	PIPE DIAMETER (in)	LENGTH (ft)	PIPE SLOPE (%)	DESIGN FLOW (MGD)	DESIGN FLOW (MGD)	DESIGN FLOW (MGD)	DESIGN FLOW (MGD)	DESIGN FLOW (MGD)	DESIGN FLOW (MGD)	DESIGN FLOW (MGD)
B1	4.0	36	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B2	4.0	36	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B3	4.0	36	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B4	4.0	36	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B5	4.0	36	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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PLANNERS ENGINEERS LANDSCAPE ARCHITECTS

143RD STREET & ANDREWS AVE. SEWER MAIN EXTENSION

143RD STREET & ANDREWS AVE. OLATHE, KANSAS

PREPARED BY:

SCHLAGEL & ASSOCIATES P.A.

DESIGNER DATE: 10/1/2017

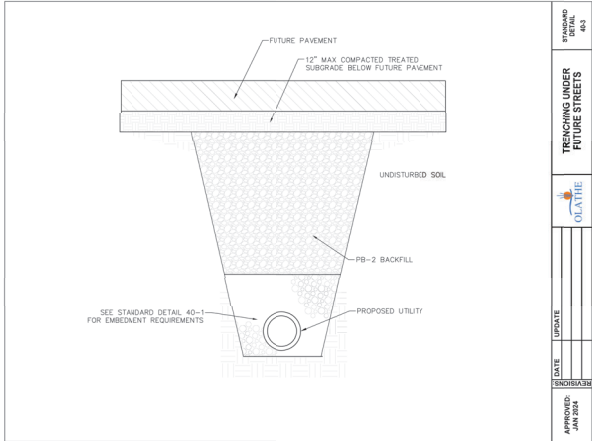
CHECKED BY: JAW

DATE PREPARED: 10/1/2017

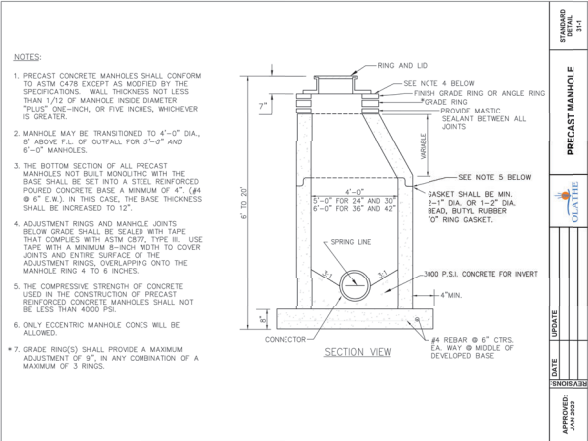
PROJECT NUMBER: 24-008

TRIBUTARY MAP

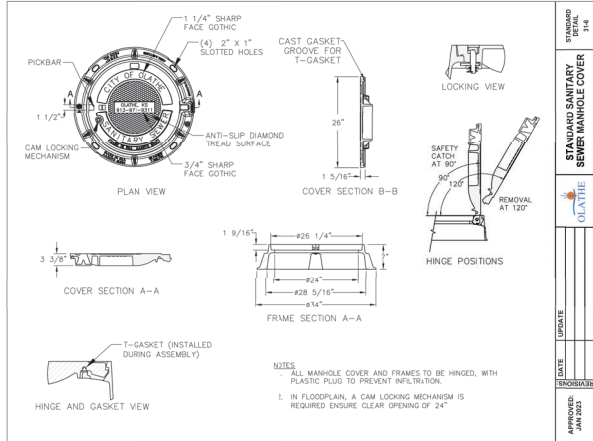
SHEET 6



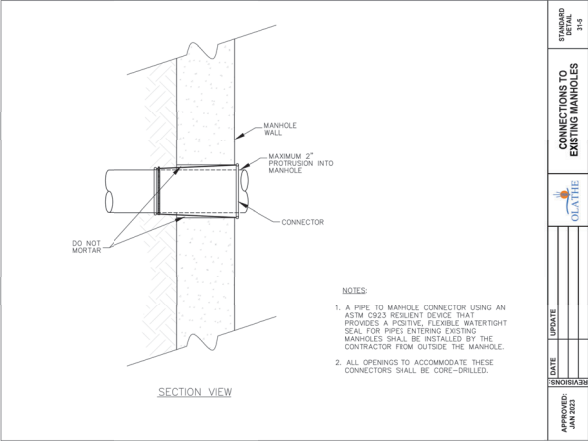
TRENCH UNDER FUTURE STREETS		
STANDARD DETAIL 40-3		
OLATHE		
DATE	UPDATE	
APPROVED:	JAN 2024	



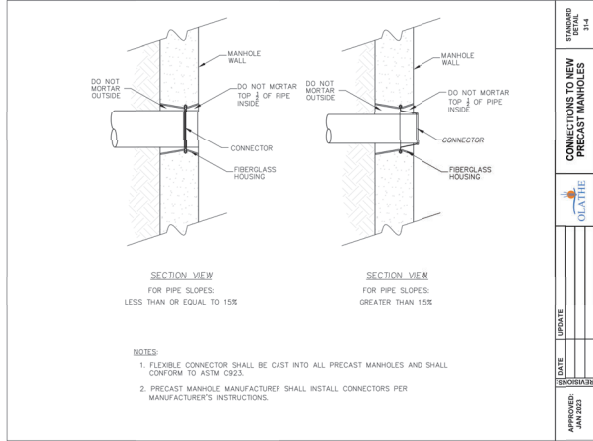
PRECAST MANHOLE		
STANDARD DETAIL 31-1		
OLATHE		
DATE	UPDATE	
APPROVED:	JAN 2024	



STANDARD SANITARY SEWER MANHOLE COVER		
STANDARD DETAIL 31-6		
OLATHE		
DATE	UPDATE	
APPROVED:	JAN 2023	



CONNECTIONS TO EXISTING MANHOLES		
STANDARD DETAIL 31-4		
OLATHE		
DATE	UPDATE	
APPROVED:	JAN 2021	



CONNECTIONS TO NEW PRECAST MANHOLES		
STANDARD DETAIL 31-4		
OLATHE		
DATE	UPDATE	
APPROVED:	JAN 2023	

REVISION DATE	DESCRIPTION
1/2/24	REVISION 1
1/2/24	REVISION 2
1/2/24	REVISION 3
1/2/24	REVISION 4
1/2/24	REVISION 5
1/2/24	REVISION 6
1/2/24	REVISION 7
1/2/24	REVISION 8
1/2/24	REVISION 9
1/2/24	REVISION 10