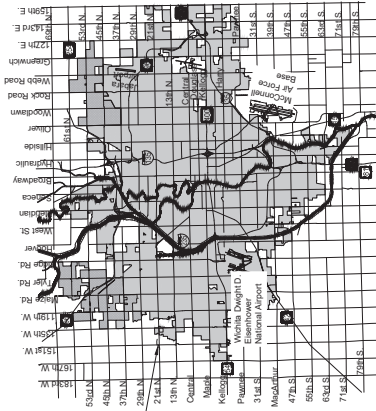


# SANITARY SEWER MAIN EXTENSION to serve AREA 151 ADDITION CITY OF WICHITA, KANSAS

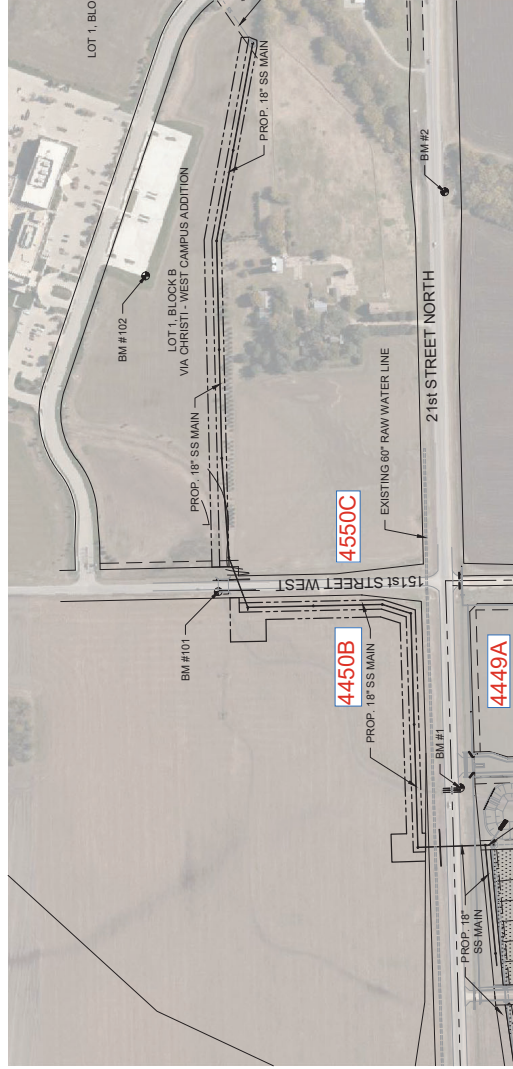
**NWI-05**  
Paul Gunzelman, P.E. City Engineer  
Project Number: 468-2023-011814  
Org Code number: 47269323  
Munis Number: E3112

**BUILT PER PLAN**

Misc Construction - Contractor  
S. Lowe - City of Wichita, Field Project Engineer  
R. Canillo - City of Wichita, Inspector  
As Released - Date (for connection purposes only): 8/7/2025  
pdf: apr. 9/6/2025



Vicinity Map



SEE NEXT SHEET  
FOR IMPROVEMENT  
DISTRICT AREA

### Benchmarks

- BENCHMARK #1:  
CURBED SQUARE WITH DIVOT ON THE NORTHEAST CORNER OF A  
CULVERT HEADWALL ON THE SOUTH SIDE OF 21ST STREET NORTH,  
688 FEET WEST OF 151ST STREET WEST  
ELEVATION = 1368.00 (NAVD88, G 18)
- BENCHMARK POINT #101:  
PLUS CUT ON NORTH END OF HEADWALL OF RCBC UNDER 151ST ST  
W, 732 FEET NORTH OF THE CENTERLINE OF 21ST ST N AND 19 FEET  
WEST OF THE CENTERLINE OF 151ST ST N,  
ELEVATION = 1364.78 (NAVD88, G 18)
- BENCHMARK POINT #102:  
PLUS CUT ON TOP OF CURB AT THE SOUTHWEST CORNER OF THE  
HOSPITAL PARKING LOT, 841 FEET NORTH OF THE CENTERLINE OF  
21ST ST N AND 1,002 FEET EAST OF THE CENTERLINE OF 151ST ST N,  
ELEVATION = 1363.87 (NAVD88, G 18)

Sheet Number	Sheet Title
1	SS Tiltsheet
2	GENERAL NOTES
3	14" CHD SS MH
4	18" CHD SS MH
5	SS MAIN (1 of 5)
6	SS MAIN (2 of 5)
7	SS MAIN (3 of 5)
8	SS MAIN (4 of 5)
9	SS MAIN (5 of 5)
10	RAW WATER CROSSING DETAIL
11	EROSION CONTROL PLAN
12	EC-CURB INLET & CONST. ENT
13	EC-SUBDIVISION DEVELOPMENT
14	EC-STREET IMPROVEMENTS
15	EC-DITCH CHECK
16	EC-SILT FENCE
17	



JUNE 2024  
PLANS PREPARED BY



GARVER  
1995 Midfield Road  
Wichita, KS 67209  
(316) 264-8008  
www.GarverUSA.com  
Project No. 22714.002

NOTE: All coordinates listed are modified NAD83 Kansas State Plane Zone  
South unless otherwise noted. To convert listed coordinates to  
NAD83 Kansas State Plane Zone South, coordinates to the  
south of the equator must be multiplied by -1.  
Elevation datum is NAVD88 Geoid 12B unless otherwise noted.

PLAN SET REVIEWED BY GARVER  
*Cheryl Baker*  
SIGNATURE  
02/28/2024  
DATE

IMPROVEMENT DISTRICT



Construction Engineering Division  
1801 S. McLean Blvd., Suite B  
Wichita KS, 67213  
(316) 268-4027

## Plan Deviations/Changes

**Project Name:** Sanitary Sewer Main Extension to serve Area 151 Addition  
**Project Location:** South of 21st St N, west of 151st St W  
**Project No:** 468-2023-011814  
**MUNIS No:** E3112/47269323  
**Contractor:** Nowak Construction Co., Inc.  
**Inspector:** Daniel Swinger

### Description of changes made from the plans during construction

Pipe casing installed across 151st from Sta 16+84.78 to 13+14.78 at 130 LF and not the planned 127 LF. This was in benefit for the bore subcontractor as cutting/removing the extra footage installed was more costly than the casing itself.

SS Pipe 18" beyond MH-13 (Sta 36+88.79) was installed at 43 LF and not 40 LF to meet plan quantity of Item #8 (Pipe, SS 18") and to ease future contractor responsible for SS Main. This creates an ending stations of 37+31.79.

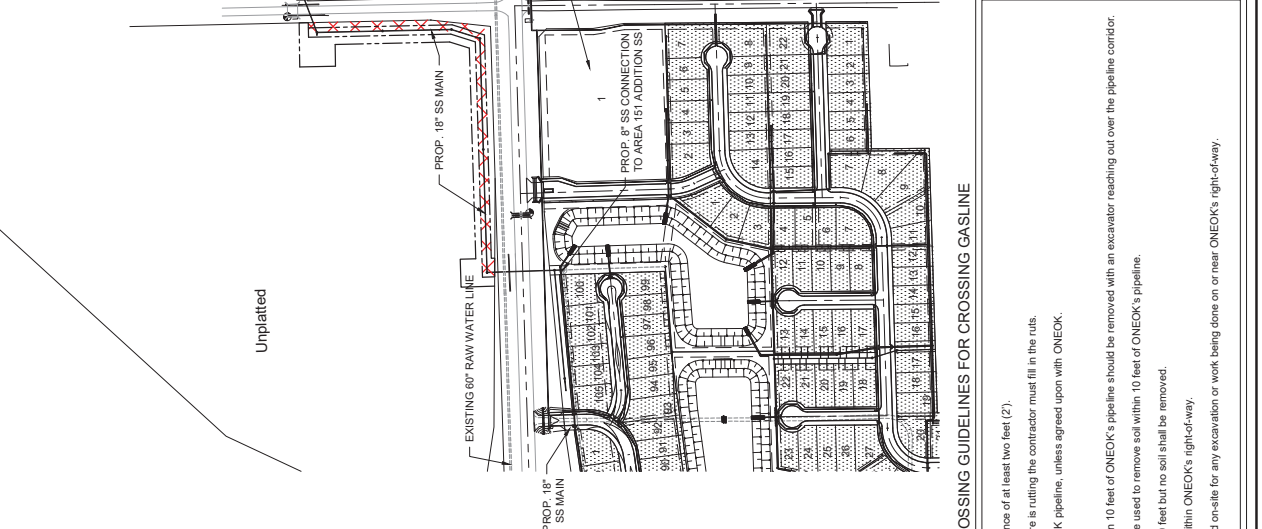
**GENERAL NOTES:**

- The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.
- The Contractor will be required to provide notice to utility companies a minimum of seventy-two (72) hours prior to any excavation, as follows:  
 Kansas One-Call 687-2470  
 The Contractor must notify the following in case of an emergency:  
 AT&T 1-800-246-8464  
 Black Hills Energy 1-800-694-8989  
 City of Wichita Water & Sewer Dept. 1-316-218-9821  
 City of Wichita Stormwater 1-316-268-4090  
 City of Wichita Traffic 1-316-268-4034  
 Cox Communications 1-888-246-3530  
 Energy 1-800-544-4857  
 Kansas Gas Service (ONEOK) 1-888-492-4950  
 Sedgwick County Electric Cooperative 1-866-562-4732

- Utility service lines, poles, etc. are to be adjusted as necessary by other contractors before construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the design, shall be maintained and protected. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on site to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in appearance and site location, shall be approved by the Engineer. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a floor plan will require a Kansas State Board of Agriculture permit. Any material dumped in the State of Kansas shall be in accordance with the Kansas State Board of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits will require additional archaeological investigations unless buried in a previously approved borrow location.
- Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
- The Contractor shall give all property owners and/or tenants of developed property adjoining the construction a minimum of ten (10) days notice prior to start of construction.
- The Contractor shall be responsible for preserving property irons. The Contractor will be required to mark and protect all existing irons. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
- If traffic will be impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, at traffic@wichita.gov before construction can begin. The Contractor shall be responsible for all traffic control measures to facilitate construction. All conform to the Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Dept. of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be the Contractor's responsibility.

- All elevations shown are NAVD 88, G124.
- All areas disturbed during construction that will not be restored to original condition shall be restored to match existing conditions.
- The Contractor shall protect from damage and support existing utilities through construction as approved by the owner and the Engineer at the Contractor's expense.
- The Contractor shall limit the extent of trench openings overtopped and westwards to less than 50 feet.

- All stubs and plugged pipes shall be located with green plastic tape in the same manner as risers.
- Connecting to Existing Manholes:  
 Prior to laying sewer lines using existing stubs in existing manholes, the Contractor shall expose and verify the elevation, grade and alignment of existing manholes. The Contractor shall provide the manhole plans. Where connection to an existing manhole that does not have an existing stub or the stub is unusable due to elevation grade or alignment, the Contractor shall bore cut into existing manhole wall to make connection to existing manhole. The Contractor shall provide the cost to connecting to existing manholes is incidental to the project.
- The Contractor shall provide positive drainage away from all manhole covers when adjacent grade allows.
- The Contractor shall prevent any construction debris from entering the existing sanitary sewer during construction.
- The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractors proposed method for maintaining sewage flow shall be submitted and approved by the Sewer Maintenance Division (316-268-4073) prior to starting and by-passing of sewage flows.
- No shrink or swell factors have been applied to the earthwork quantities shown on this project. All earthwork quantities are based on raw surface volume comparisons.
- Excess dirt generated from installation of underground sanitary sewer due to flowable fill and sand backfill is to be transferred to Lot 1, Block 1, Area 151 Addition.
- All disturbed areas on this project shall be seeded with temporary seeding per City of Wichita Specifications.
- All manholes shall have interior lines and exterior joint vangs per City of Wichita Specifications. Cost subsidiary to MH construction.
- Developer:  
 Ryan Nett (316) 300-1916 ryan@nettozengineering.com
- Mark each new manhole with T-posts and caps. See detail sheet 5.



**GARVER**  
 ENGINEERING ARCHITECTURE INTERIOR DESIGN  
 1985 Midfield Road  
 Wichita, KS 67209  
 (316) 264-8008

151st Street North  
 21st Street North  
 151st Street West

LOT 1, BLOCK A  
 LOT 1, BLOCK B  
 VIA CHRISTI - WEST CAMPUS ADDITION

PROP. 18" SS MAIN  
 PROP. 6" SS CONNECTION TO AREA 151 ADDITION SS

EXISTING 60" RAW WATER LINE  
 PROP. 18" SS MAIN  
 PROP. 18" SS MAIN

21st STREET NORTH  
 151st STREET WEST

STOCKPILE LOCATION FOR EXCESS MATERIALS

UNPLANTED

RESERVE "B"  
 GIS TOP FLOW

IMPROVEMENT DISTRICT

0 100' 200' 400' 600'  
 (IN FEET)

ONEOK CONTACT  
 MITCHELL YORK  
 940-682-5043  
 Mitchell.York@oneok.com

ONEOK'S SAFE CROSSING GUIDELINES FOR CROSSING GASLINE

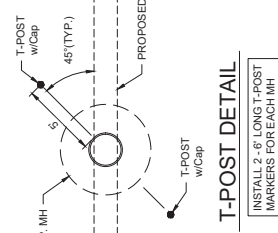
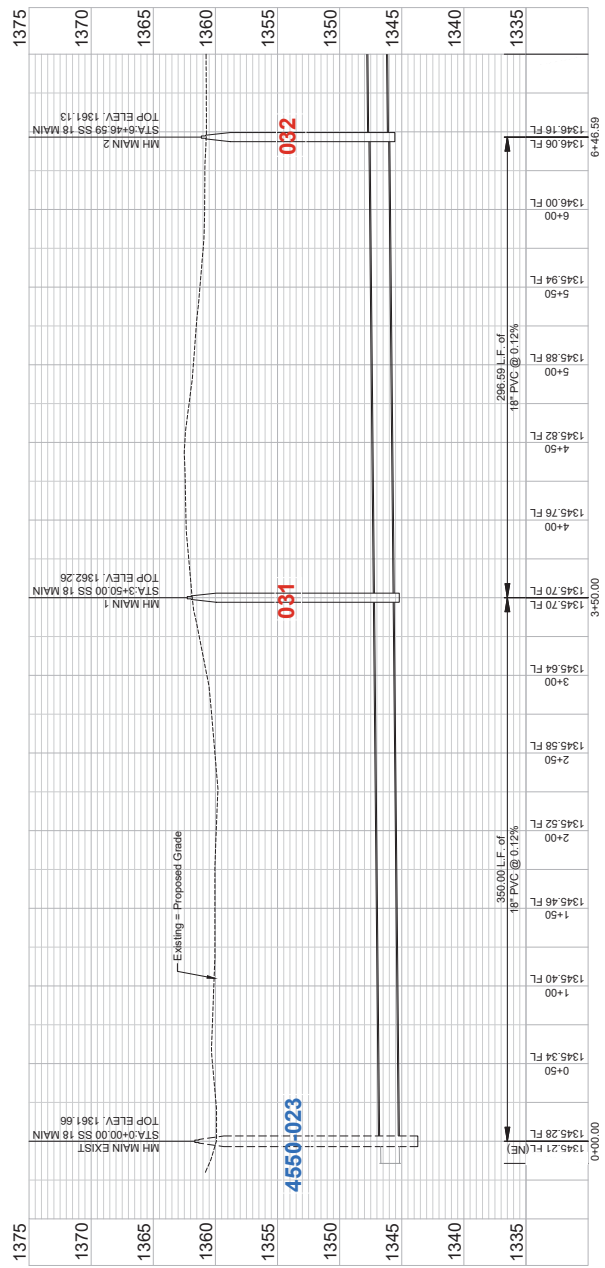
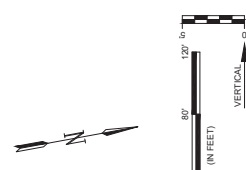
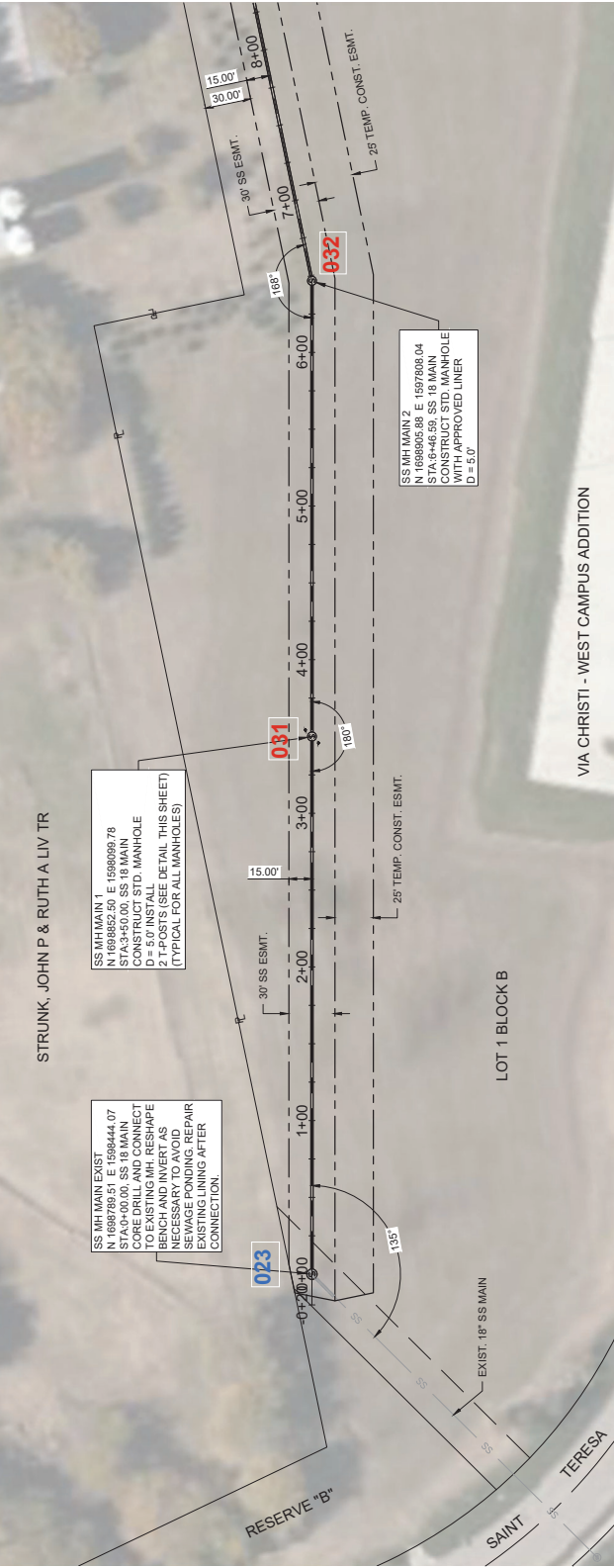
- Excavator is to install sewer at a separation distance of at least two feet (2').
- No rutting is allowed over the ONEOK ROW, if there is rutting the contractor must fill in the ruts.
- No cover is allowed to be removed over the ONEOK pipeline, unless agreed upon with ONEOK.
- Contractor must use the ONECALL call system.
- During construction, any soil that is removed within 10 feet of ONEOK's pipeline should be removed with an excavator reaching out over the pipeline corridor.
- A grader or other scraping equipment should not be used to remove soil within 10 feet of ONEOK's pipeline.
- A grader can be used to smooth the road within 10 feet but no soil shall be removed.
- No vibratory or sheep's foot packers are allowed within ONEOK's right-of-way.
- A representative of ONEOK must be contacted and on-site for any excavation or work being done on or near ONEOK's right-of-way.

CITY OF WICHITA  
 SANITARY SEWER MAIN EXTENSION

GENERAL NOTES

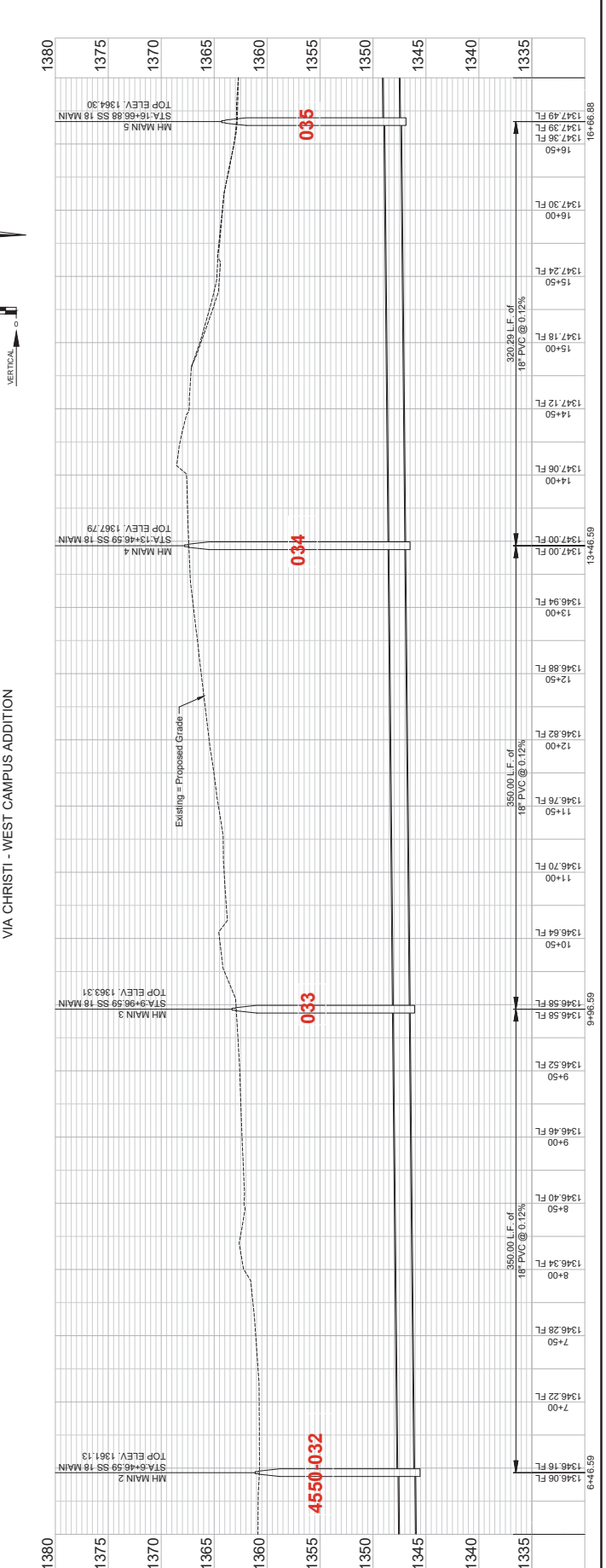
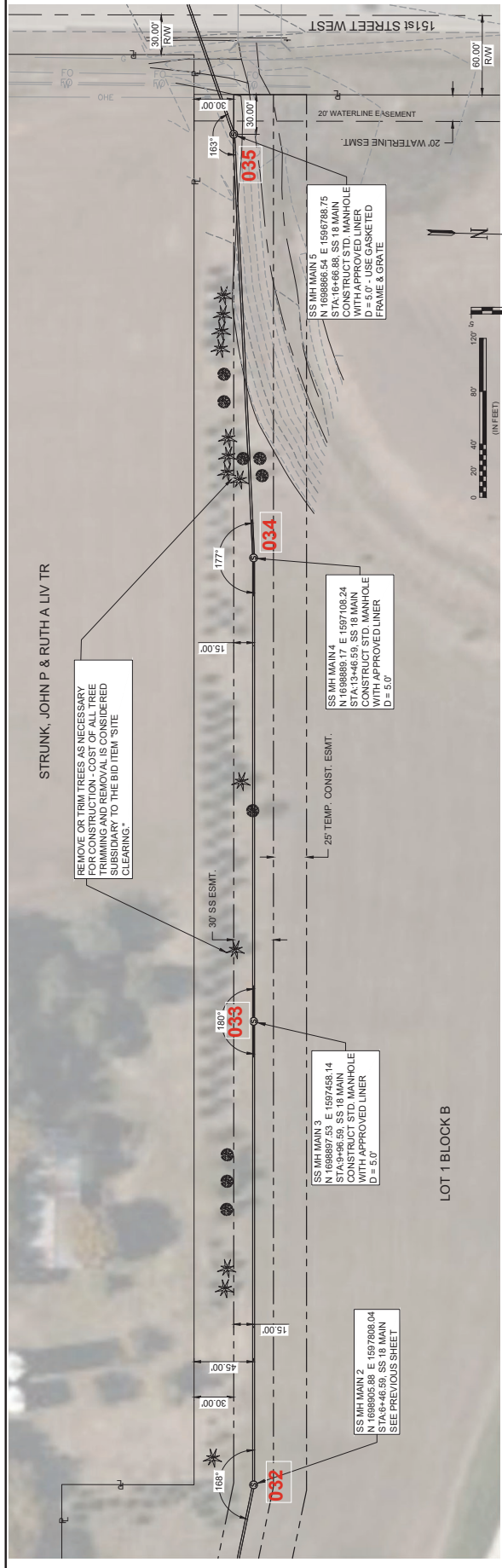
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 DATE: JUNE 2024  
 DESIGNED BY: E/JG  
 DRAWN BY: DRS

SHEET NUMBER **2** OF **18**



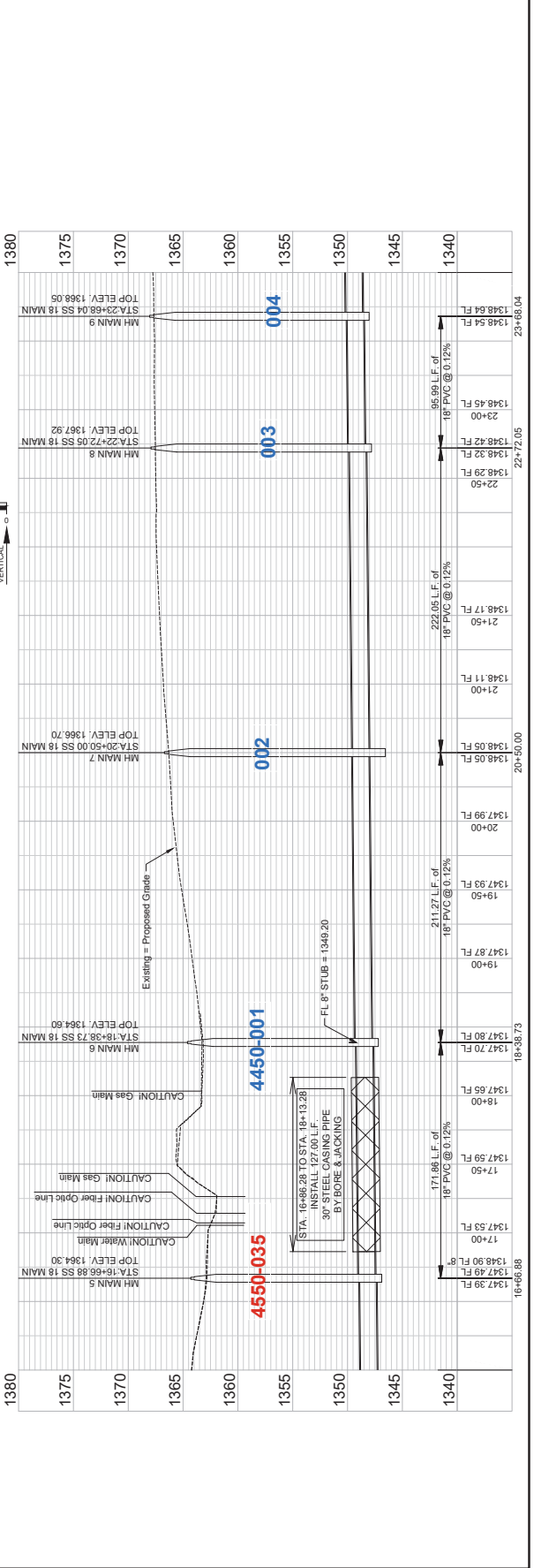
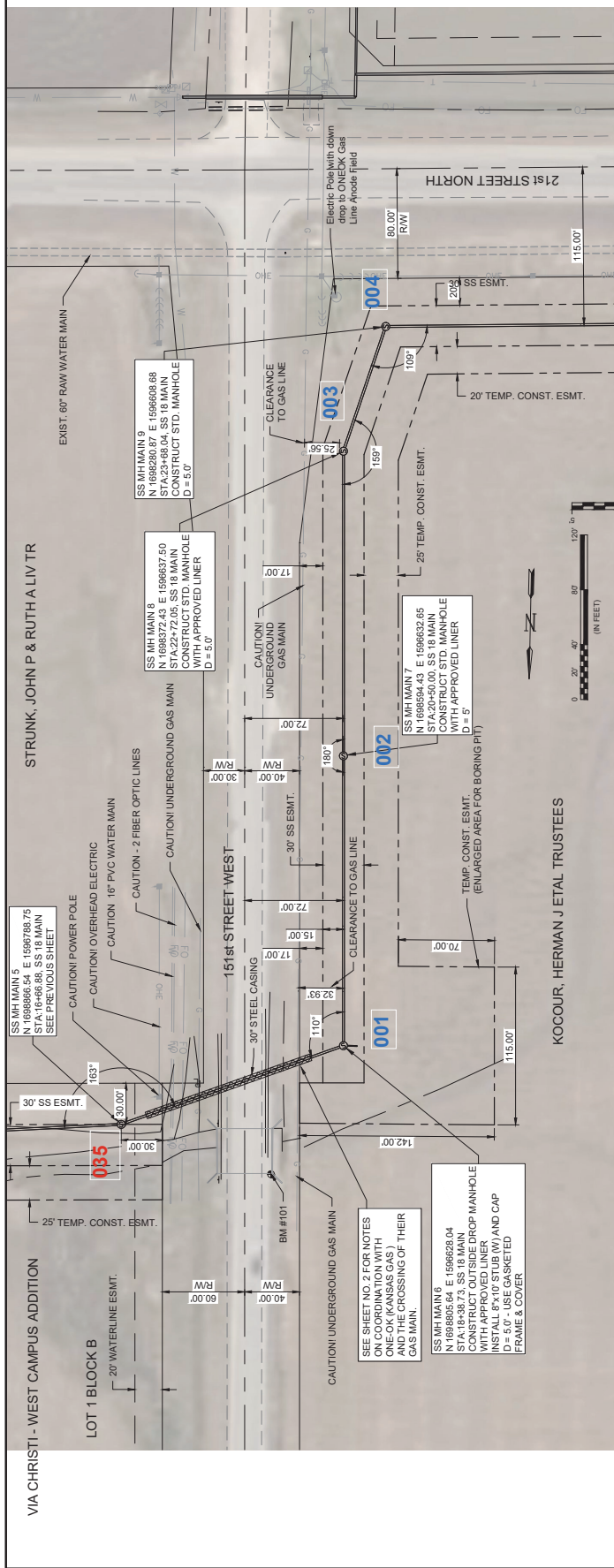


REV.	DATE	DESCRIPTION





REV.	DATE	DESCRIPTION	BY



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 Plot Style: - Proj Sww - 151st Addition Pld Sww 6/24/2024 7:51 AM  
 Pldr used: None



DESIGN PROFESSIONAL SEAL  
 STATE OF KANSAS  
 ENGINEER  
 GARVER, INC. AND ITS AFFILIATES  
 ARE LICENSED PROFESSIONALS  
 UNDER THE KANSAS BOARD OF  
 PROFESSIONAL ENGINEERS  
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 A DIVISION OF GARVER, INC.

1995 Midfield Road  
 Wichita, KS 67209  
 (316) 264-8008



REV.	DATE	DESCRIPTION



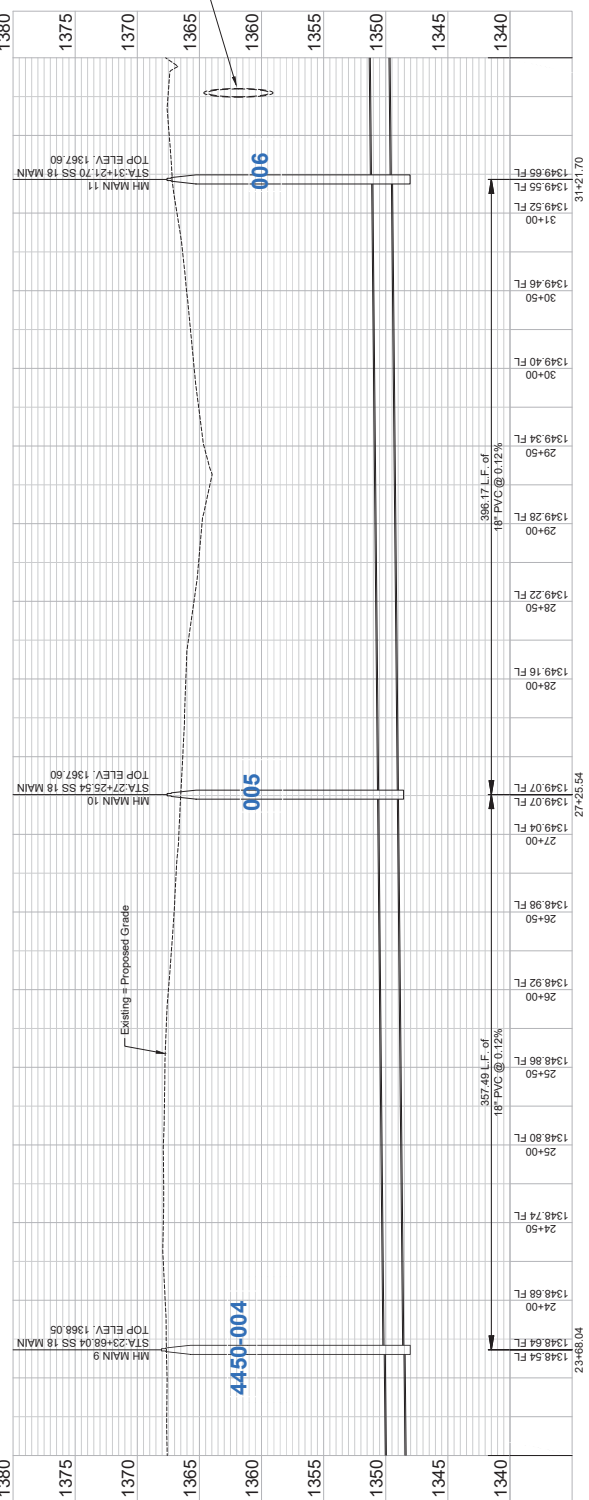
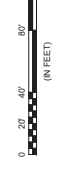
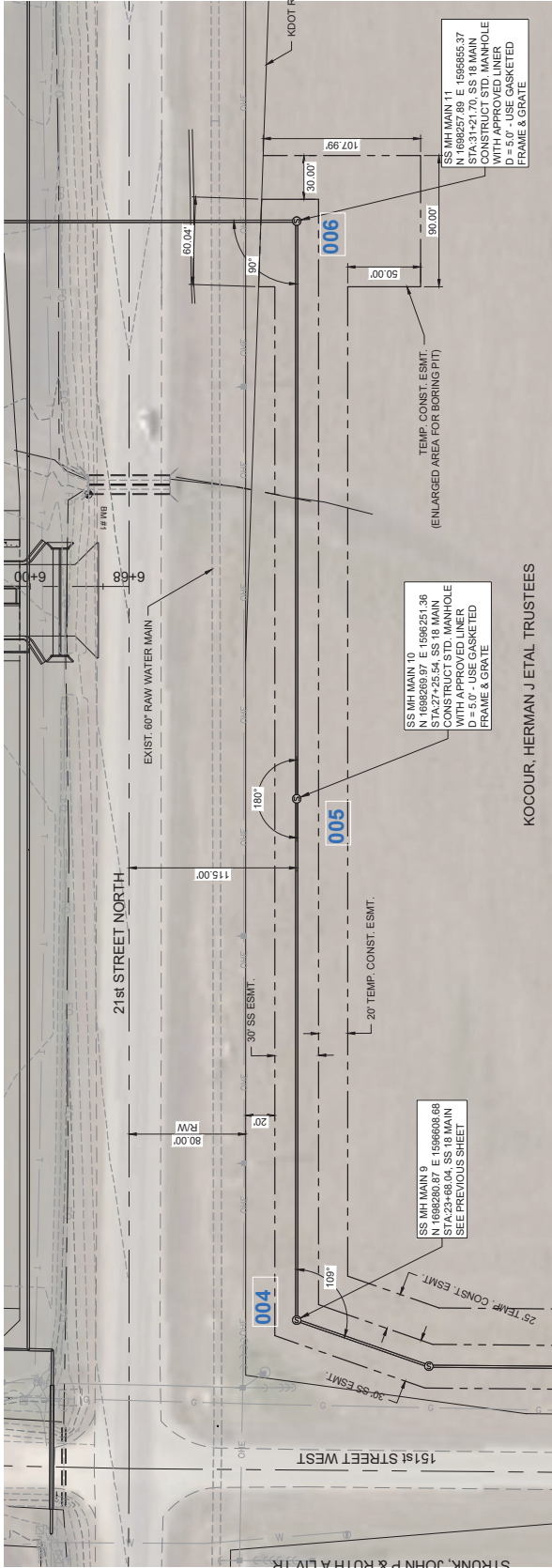
WICHITA, KANSAS  
 SANITARY SEWER MAIN EXTENSION

SS MAIN  
 (4 of 5)

JOB NO.: 227141002  
 DATE: JUNE 2024  
 DESIGNED BY: E/JG  
 DRAWN BY: DRS

DATE OF DESIGN: 06/24/2024  
 DATE OF PLOTTING: 06/24/2024  
 PROJECT NO.: 227141002

DRAWING NUMBER  
 SHEET NUMBER **8** OF **18**





1955 Midfield Road  
Wichita, KS 67209  
(316) 264-8008

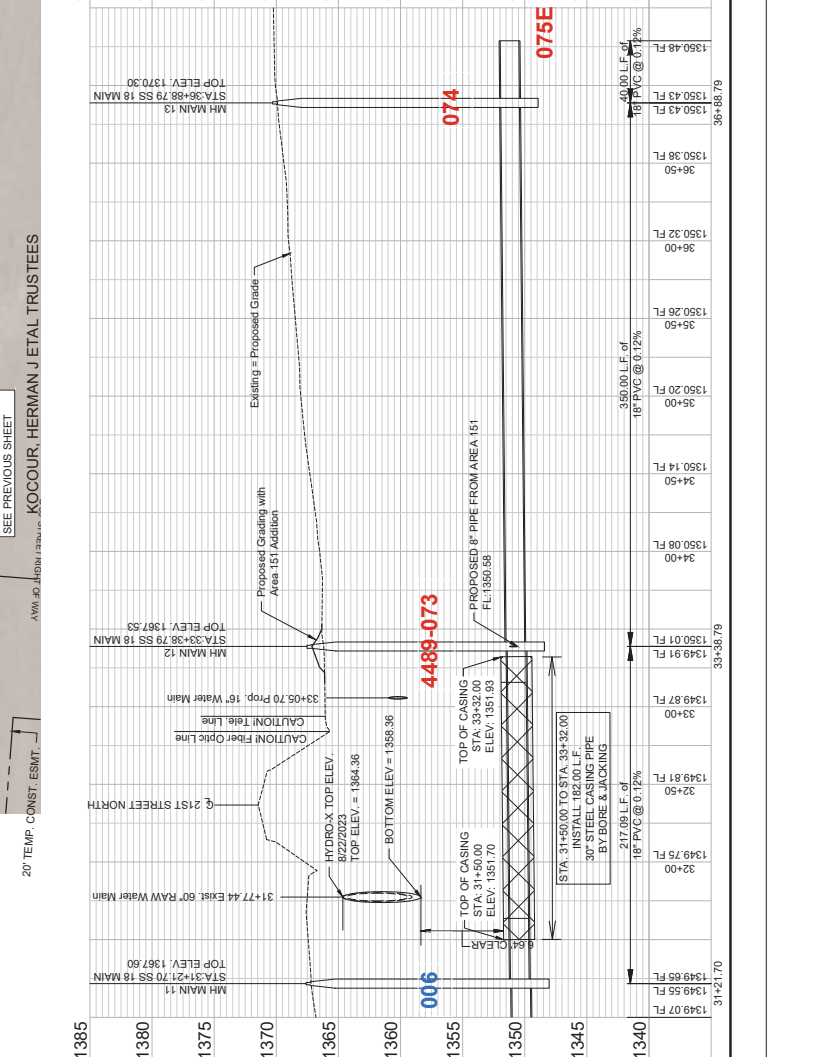
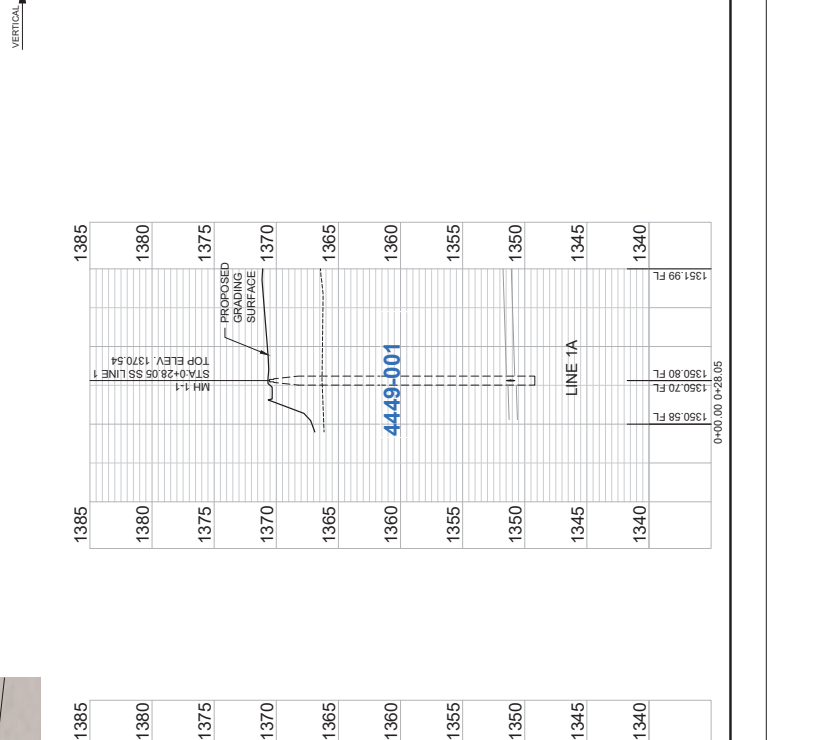


SS MAIN  
(5 of 5)

JOB NO. 22741002  
DATE: JUNE 2024  
DESIGNED BY: E/JG  
DRAWN BY: DJS

DATE PLOTTED: 06/24/2024 10:00 AM  
DRAWING NUMBER: 000.00 0+25.05

SHEET NUMBER: 9 OF 18



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 Laid Out By: DJS    Plot Scale: 1" = 40'    Plot Date: 6/24/2024 7:52 AM    Plot User: djs



1905 Midfield Road  
Wichita, KS 67209  
(316) 264-8008



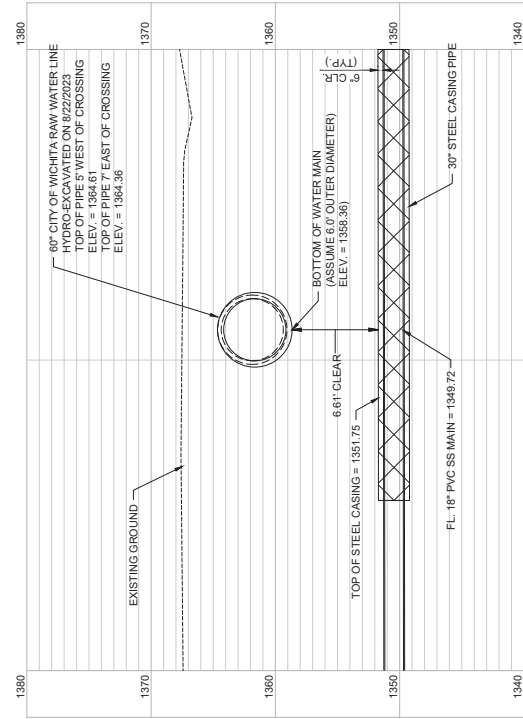
REV.	DATE	DESCRIPTION	BY

WICHITA  
CITY OF WICHITA  
WICHITA, KANSAS  
SANITARY SEWER MAIN EXTENSION

RAW WATER  
CROSSING  
DETAIL

JOB NO.: 227141002  
DATE: JUNE 2024  
DESIGNED BY: CMB  
DRAWN BY: DRS  
START DATE: 06/01/2024  
END DATE: 06/01/2024  
DRAWING NUMBER

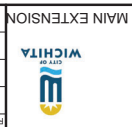
SHEET  
NUMBER **10** of **18**



RAW WATER CROSSING DETAIL



REV.	DATE	DESCRIPTION



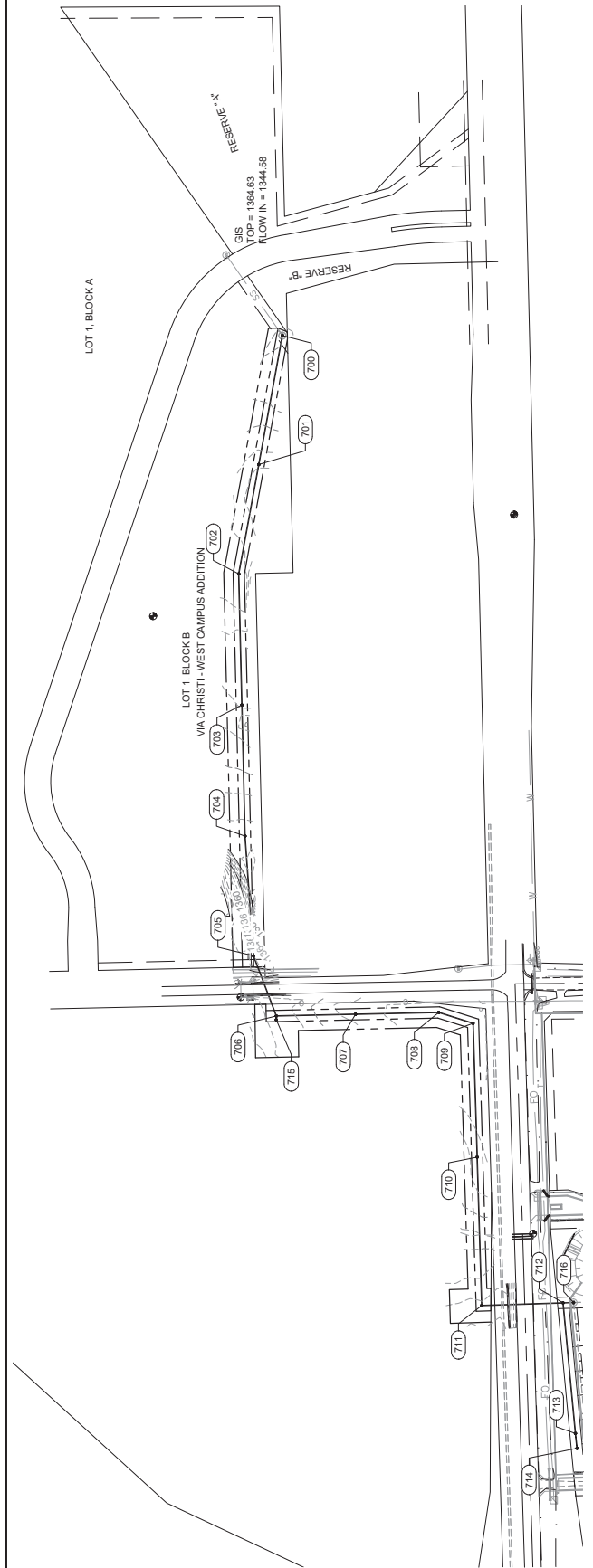
CITY OF WICHITA  
 WICHITA, KANSAS

COORDINATE  
 MAP SS MAIN

JOB NO. 227141002  
 DATE: JUNE 2024  
 DESIGNED BY: EJJ  
 DRAWN BY: DRS

DATE PLOTTED: 06/24/2024 10:00 AM  
 PLOT SCALE: 1" = 40'

SHEET NUMBER **11** OF **18**



Sanitary Sewer Point Table

Point #	Eastling	Grid Northing	Grid Easting	Description
700	1688789.51	1598444.07	1598351.26	MH MAIN EXIST
701	1688852.50	1598098.76	1598007.00	MH MAIN 1
702	1688905.88	1597808.04	1597715.27	MH MAIN 2
703	1688987.53	1597458.14	1597365.39	MH MAIN 3
704	1688989.17	1597108.24	1597015.51	MH MAIN 4
705	1688866.54	1596788.75	1596686.04	MH MAIN 5
706	1688905.64	1596528.04	1596355.34	MH MAIN 6
707	1688934.43	1596332.65	1596195.81	MH MAIN 7
708	1689372.43	1596337.50	1596544.80	MH MAIN 8
709	1688280.87	1596608.68	1688182.27	MH MAIN 9
710	1688269.97	1596251.36	1688171.37	MH MAIN 10
711	1688257.89	1596555.37	1688159.29	MH MAIN 11
712	1688640.91	1595862.38	1687942.32	MH MAIN 12
713	1688007.97	1595513.94	1687909.38	MH MAIN 13
714	1688003.72	1595474.16	1687905.14	18" STUB
715	1688605.64	1596618.04	1688707.01	8" STUB
716	1688012.87	1595863.30	1687914.29	MH 1-1 EXIST