



WATER AND SEWER
Engineering Design

DATE:
July 16, 2025

TO:
Plan Holders
Contractors

FROM:
Jenna Richardson
918-596-9637
jennarichardson@cityoftulsa.org

EMAIL TRANSMITTAL

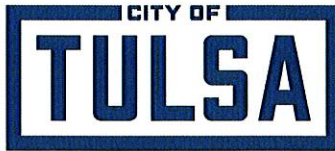
ADDENDUM NO. 2

PROJECT NO. ES 2020-07 C2
CITYWIDE LIFT STATION IMPROVEMENTS KINGSTON
GRAVITY SEWER

Number of pages: 24

All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.

Thank you,
Contract Administration



WATER AND SEWER
Engineering Design

DATE:
July 17, 2025

**ADDENDUM NO. 2
TO
PROJECT NO. ES 2020-07 C2
CITYWIDE LIFT STATION IMPROVEMENTS KINGSTON GRAVITY SEWER**

This Addendum No. 2 consisting of three (3) items, submitted by HUB Engineering is hereby made a part of the Contract Documents to the same extent as though it were originally included therein and shall supersede anything contained in the Plans and Specifications with which it might conflict. **All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.**

This Addendum No. 2 consists of the following:

1. The attached documents list the detailed items that have been modified in Addendum No. 2. These documents shall be inclusive and apply to this project.

All other provisions of the Plans and Specifications shall remain in full force and effect.

CITY OF TULSA

A blue ink signature of Eric Lee, consisting of a stylized, cursive "E" followed by "Lee".

Eric Lee
Director

A blue ink signature that appears to be "HAS" followed by a stylized "TGP" and "AL/JR/kt".

HAS/TGP/AL/JR/kt



ENGINEERS

**ADDENDUM NO. 2
JULY 16, 2025**

**PROJECT NO. ES 2020-07, CONTRACT 2
CITY WIDE LIFT STATION IMPROVEMENTS
KINGSTON GRAVITY SEWER**

This Addendum No. 2, consisting of three (3) items is hereby made a part of the Contract Documents to the same extent as though it were originally included therein, and shall supersede anything contained in the Plans and Specifications with which it might conflict. **This Addendum shall be attached to the Index Sheet of the Contract Documents and submitted with bid. Failure to do so shall result in the bid being deemed non-responsive.**

CONTRACT DOCUMENTS:

1. BID PROPOSAL:

DELETE THE EXISTING PROPOSAL IN ITS ENTIRETY AND REPLACE WITH THE ATTACHED REVISED PROPOSAL.

THE REVISED ELECTRONIC PROPOSAL IS FOUND AT:

[HTTPS://WWW.CITYOFTULSA.ORG/GOVERNMENT/DEPARTMENTS/ENGINEERING-SERVICES/CONSTRUCTION-BIDS/](https://www.cityoftulsa.org/government/departments/engineering-services/construction-bids/)

IT IS THE BIDDER'S RESPONSIBILITY TO DOWNLOAD THE REVISED PROPOSAL.


CONSTRUCTION DRAWINGS:

2. REFER TO DRAWINGS COVER

ADD "YALE AVE." ABOVE "T-20-N" ON MAP IN THE UPPER LEFT CORNER.

3. REMOVE AND REPLACE DRAWING SHEETS 3, 6, 7, 14, AND X1-X10 WITH THE ATTACHED REVISED DRAWINGS MARKED ADDENDUM NO. 2.

HOLLOWAY, UPDIKE AND BELLEN, INC.



Dale Seaton, P.E.
Principal



ATTACHED: SHEET 3 – GENERAL NOTES
SHEET 6 – SUMMARY OF QUANTITIES
SHEET 7 – PAY ITEM NOTES - ROADWAY
SHEET 14 – SANITARY SEWER PLAN AND PROFILE
SHEETS X1-10 – CROSS SECTIONS

END OF ADDENDUM NO. 2

ELECTRONIC BID PROPOSAL INSTRUCTIONS - EXCEL SPREADSHEET
CITYWIDE LIFT STATION - KINGSTON GRAVITY SEWER, CONTRACT 2
TMUA PROJECT NO. ES 2020-07C2

Please read the following instructions carefully.

1. After opening this file re-save it as your company's name.
2. Open the BID FORM Sheet from the tabs below.
3. Input the unit price of the appropriate pay item in the cells highlighted in blue.
4. Review all data input and check calculations to ensure accuracy of Bid.
5. Print 1 hardcopy of the "PROPOSAL" tab, BID FORM and the "SIGNATURE PAGE" tab.
6. Complete and sign the "Signature Page" document.
6. Submit hardcopy and electronic disk with Contract Documents and Specifications for Bid opening date.

NOTES:

1. The sheet named "FOR CONTRACTOR USE" shall be used by the contractor to export data to estimating software.

LEGEND

- \$ 1.00 Cells Requiring Data Input.
- \$ 1.00 Internal Data Transfer.
- \$ 2.00 Calculated Results.

AGREEMENT FOR USING ELECTRONIC BID PROPOSAL

By and Between: Holloway, Updike & Bellen, Inc. (ENGINEER) and RECIPIENT. The enclosed electronic media is provided pursuant to your request and is for your limited use in connection with your submittal of Bid Proposal for Project No. ES 2020-07C2 Citywide Lift Station - Kingston Gravity Sewer, Contract 2. In no event shall the information be used for any other purpose or be released to third parties without the written consent of the ENGINEER. In the event of a discrepancy between the hard copy and this electronic media at delivery or in the future, the hard copy shall govern. ENGINEER hereby disclaims any and all liability for the consequences from use of the electronic media and makes no warranty or guarantee of accuracy. RECIPIENT shall assume full responsibility for the uses and consequences of the electronic media. It is agreed that ENGINEER has and retains ownership of the electronic media. ENGINEER does not warrant or guarantee that the electronic data is compatible with RECIPIENT'S computer hardware or software, and ENGINEER'S responsibility for the electronic media is limited to replacement of defective media for a period of thirty (30) days after delivery to RECIPIENT. !!! By opening and using this FILE, You AGREE to these TERMS AND CONDITIONS!!!

**PROPOSAL
CITYWIDE LIFT STATION - KINGSTON GRAVITY SEWER, CONTRACT 2
TMUA PROJECT NO. ES 2020-07C2**

TO: TULSA METROPOLITAN UTILITY AUTHORITY
CITY OF TULSA, OKLAHOMA

THE UNDERSIGNED BIDDER, having carefully examined the drawings, specifications, and other Contract Documents of the above project presently on file in the City Clerk, City of Tulsa, Oklahoma:

CERTIFIES THAT he has inspected the site of the proposed work and has full knowledge of the extent and character of the work involved, construction difficulties that may be encountered, and materials necessary for construction, class and type of excavation, and all other factors affecting or which may be affected by the specified work; and

CERTIFIES THAT he has not entered into collusion with any other bidder or prospective bidder relative to the project and/or bid; and

HEREBY PROPOSES to enter into a contract to provide all necessary labor, materials, equipment and tools to completely construct and finish all the work required by the Contract Documents referred to therein; to complete said work within **365 calendar days** after the work order is issued; and to accept in full payment therefore the amount set forth below for all work actually performed as computed by the Engineers as set forth in the Contract.

Basis of Award

IT SHOULD BE NOTED THAT THE LOWEST RESPONSIBLE BID SHALL BE DETERMINED BY THE TOTAL BASE BID PLUS ADDITIVE ALTERNATE 1 (BASIS OF AWARD). ADDITIVE ALTERNATE 1 MAY OR MAY NOT BE AWARDED AT THE SOLE DISCRETION OF THE CITY OF TULSA. ANY PROPOSAL SUBMITTED WITH ADDITIVE ALTERNATE 1 INCOMPLETE SHALL BE CONSIDERED NON-RESPONSIVE.

Note: - Item numbers omitted are not a part of the Contract.

PROPOSAL FOR CITYWIDE LIFT STATION - KINGSTON GRAVITY SEWER, CONTRACT 2 PROJECT NO. ES 2020-07C2						
ITEM NUMBER	SPEC NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	DATA INPUT UNIT PRICE	AMOUNT
BASE BID						
1	COT 101	PROJECT SIGN (CITY OF TULSA)	EA	1		
2	COT 220	SWPPP DOCUMENTATION & MANAGEMENT	EA	1		
3	COT 301	RIGHT-OF-WAY CLEARING & RESTORING	SY	8,027		
4	COT 302	UNCLASSIFIED EXCAVATION AND BACKFILL	CY	2,993		
5	COT 303	MOBILIZATION	EA	1		
6	ODOT 303(A)	AGGREGATE BASE TYPE (A)	CY	2,433		
7	COT 304	CONTRACTOR CONSTRUCTION STAKING	EA	1		
8	COT 307	20 INCH STEEL CASING BY BORE & JACK	LF	310		
9	COT 307	20 INCH CONCRETE CASING	LF	30		
10	COT 309	6 INCH PVC AWWA C900 CLASS 200, DR 14 (WATER LINE)	LF	50		
11	COT 313	8 INCH DIA. PVC SDR 26	LF	3,730		
12	COT 314	4.0 FOOT DIA. STANDARD MANHOLE (0-6 FEET)	EA	16		
13	COT 314	4.0 FOOT DIA. STANDARD MANHOLE EXTRA DEPTH OVER 6 FEET	VF	54		
14	COT 314	4.0 FOOT DIA. DROP MANHOLE (0-6 FEET)	EA	1		
15	COT 314	4.0 FOOT DIA. DROP MANHOLE EXTRA DEPTH OVER 6 FEET	VF	8		
16	COT 325	SODDING	SY	157		
17	COT 325	HYDROMULCHING	SY	2,559		
18	COT 327	TRENCH SAFETY PLAN	EA	1		
19	COT 327	TRAFFIC CONTROL	CD	365		
20	COT 330	SILT FENCE	LF	3,265		
21	COT 331	WATER TABLE CRADLE	LF	1,027		
22	COT 334	CONSTRUCTION AS-BUILTS	LS	1		
23	COT 335	ACCEPTANCE SAMPLING/TESTING REQUIREMENTS	LS	1		
24	COT 400.7.5	PHOTOGRAPHIC DOCUMENTATION	EA	1		
25	COT 404	DEMOLISH EXISTING LIFT STATION	LS	1		
26	COT 404	ABANDON EXISTING 6 INCH C.I. FORCE MAIN	LS	1		
27	ODOT 601(E)	LAID UP RIP RAP	TON	210		
28	ODOT 601(E)	TURF REINFORCEMENT MAT	SY	7,745		
29	ODOT 601(B)	FILTER FABRIC	SY	419		
30	SPECIAL	OWNERS ALLOWANCE	ALLOW	100,000	\$1.00	\$100,000.00
31	ODOT 202(A)	UNCLASSIFIED EXCAVATION AND BACKFILL	CY	2,540		
32	ODOT 230(A)	SOLID SLAB SODDING	SY	850		
33	ODOT 303(A)	AGGREGATE BASE TYPE (A)	CY	995		
34	ODOT 310(B)	SUBGRADE METHOD "B" - 8 INCHES	SY	2,965		

**PROPOSAL FOR
CITYWIDE LIFT STATION - KINGSTON GRAVITY SEWER, CONTRACT 2
PROJECT NO. ES 2020-07C2**

ITEM NUMBER	SPEC NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	DATA INPUT UNIT PRICE	AMOUNT
35	COT 325	SEPARATOR FABRIC	SY	3,111		
36	ODOT 411(C)	SUPERPAVE, INSOLUBLE TYPE S4 (PG 64-22 OK)	TON	272		
37	ODOT 411(C)	SUPERPAVE, TYPE S3 (PG 64-22 OK)	TON	1,177		
38	ODOT 610(B)	CONCRETE DRIVEWAY (6 INCH -H.E.S.)	SY	9		
39	ODOT 610(G)	ASPHALT DRIVEWAY (6 INCH)	SY	73		
40	ODOT 619(B)	REMOVAL OF PAVEMENT	SY	3,111		
41	ODOT 619(B)	REMOVAL OF ASPHALT DRIVEWAY	SY	73		
42	ODOT 619(B)	REMOVAL OF CONCRETE DRIVEWAY	SY	9		
TOTAL BID						\$100,000.00
ADDITIVE ALTERNATE 1						
43	COT 301	RIGHT-OF-WAY CLEARING & RESTORING (DEDUCT)	SY	-250		
44	COT 302	UNCLASSIFIED EXCAVATION AND BACKFILL (DEDUCT)	CY	-88		
45	COT 307	20 INCH STEEL CASING BY BORE & JACK	LF	60		
TOTAL ADDITIVE ALTERNATE 1						

TOTAL BASE BID	\$100,000.00
TOTAL ADDITIVE ALTERNATE 1	
TOTAL BID BASIS OF AWARD (BASE BID + ADDITIVE ALTERNATE 1)	\$100,000.00

Enclosed is a () Bidder's Surety Bond, () Certified Check, () Cashier's Check for _____ Dollars (\$ _____)
 _____ Figures

which the City of Tulsa may retain or recover as liquidated damages in the event that the undersigned fails to enter into contract for the work covered by this proposal, provided the Contract is awarded to the undersigned within thirty (30) days, or within ninety (90) days if Federal funds are utilized, from the date fixed for opening of bids and the undersigned fails to execute said Contract and furnish the required bonds and other requirements as called for in these Contract Documents within thirty (30) days after award of Contract.

Dated at Tulsa, Oklahoma, this _____ day of _____, 20__.

Respectfully submitted,

 (Complete legal name of company)

 (State of Organization)

By: _____
 Title: _____
 Printed Name: _____

ATTEST: _____
 Title: Corporate Secretary
 Printed Name: _____
 (SEAL)

Address: _____

Telephone Number: _____ Fax Number: _____

The undersigned acknowledge receipt of the following Addenda (give number and date of each):

PROPOSAL FOR CITYWIDE LIFT STATION - KINGSTON GRAVITY SEWER, CONTRACT 2 PROJECT NO. ES 2020-07C2				
ITEM NUMBER	SPEC NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
BASE BID				
1	COT 101	PROJECT SIGN (CITY OF TULSA)	EA	1
2	COT 220	SWPPP DOCUMENTATION & MANAGEMENT	EA	1
3	COT 301	RIGHT-OF-WAY CLEARING & RESTORING	SY	8,027
4	COT 302	UNCLASSIFIED EXCAVATION AND BACKFILL	CY	2,993
5	COT 303	MOBILIZATION	EA	1
6	ODOT 303(A)	AGGREGATE BASE TYPE (A)	CY	2,433
7	COT 304	CONTRACTOR CONSTRUCTION STAKING	EA	1
8	COT 307	20 INCH STEEL CASING BY BORE & JACK	LF	310
9	COT 307	20 INCH CONCRETE CASING	LF	30
10	COT 309	6 INCH PVC AWWA C900 CLASS 200, DR 14 (WATER LINE)	LF	50
11	COT 313	8 INCH DIA. PVC SDR 26	LF	3,730
12	COT 314	4.0 FOOT DIA. STANDARD MANHOLE (0-6 FEET)	EA	16
13	COT 314	4.0 FOOT DIA. STANDARD MANHOLE EXTRA DEPTH OVER 6 FEET	VF	54
14	COT 314	4.0 FOOT DIA. DROP MANHOLE (0-6 FEET)	EA	1
15	COT 314	4.0 FOOT DIA. DROP MANHOLE EXTRA DEPTH OVER 6 FEET	VF	8
16	COT 325	SODDING	SY	157
17	COT 325	HYDROMULCHING	SY	2,559
18	COT 327	TRENCH SAFETY PLAN	EA	1
19	COT 327	TRAFFIC CONTROL	CD	365
20	COT 330	SILT FENCE	LF	3,265
21	COT 331	WATER TABLE CRADLE	LF	1,027
22	COT 334	CONSTRUCTION AS-BUILTS	LS	1
23	COT 335	ACCEPTANCE SAMPLING/TESTING REQUIREMENTS	LS	1
24	COT 400.7.5	PHOTOGRAPHIC DOCUMENTATION	EA	1
25	COT 404	DEMOLISH EXISTING LIFT STATION	LS	1
26	COT 404	ABANDON EXISTING 6 INCH C.I. FORCE MAIN	LS	1
27	ODOT 601(E)	LAID UP RIP RAP	TON	210
28	ODOT 601(E)	TURF REINFORCEMENT MAT	SY	7,745
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36	ODOT 411(C)	SUPERPAVE, INSOLUBLE TYPE S4 (PG 64-22 OK)	TON	272
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38	ODOT 610(B)	CONCRETE DRIVEWAY (6 INCH -H.E.S.)	SY	9
39	ODOT 610(G)	ASPHALT DRIVEWAY (6 INCH)	SY	73
40	ODOT 619(B)	REMOVAL OF PAVEMENT	SY	3,111
41	ODOT 619(B)	REMOVAL OF ASPHALT DRIVEWAY	SY	73
42	ODOT 619(B)	REMOVAL OF CONCRETE DRIVEWAY	SY	9
ADDITIVE ALTERNATE 1				
43	COT 301	RIGHT-OF-WAY CLEARING & RESTORING (DEDUCT)	SY	-250

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TRAFFIC CONTROL

1.

ALL TRAFFIC CONTROL DEVICES, CONSTRUCTION SIGNAGE, BARRICADING, ETC. SHALL BE IN ACCORDANCE WITH THE LATEST REVISED EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL A TRAFFIC CONTROL PLAN (TCP).
2.

THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTIFICATION FOR ANY AND ALL STREET/LANE CLOSURES, MODIFICATIONS, OR CHANGES TO THE TRAFFIC CONTROL MEASURES TO:

POLICE

918-596-9222

FIRE

918-596-9977

COT TRAFFIC

918-596-9744

EMSA

918-596-3043

MTTA

918-596-1195

COT FIELD ENGINEERING

918-596-9404
3.

THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS 48 HOURS PRIOR TO STARTING WORK OR PRIOR TO REMOVING OR RELOCATING ANY TRAFFIC SIGNS. ALL SIGNS SHALL BE HANDLED SO AS TO AVOID ANY DAMAGE TO THE SIGN OR POST. ALL SIGNS REMOVED DUE TO CONSTRUCTION SHALL BE REINSTALLED BY THE CONTRACTOR.
4.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL CONSTRUCTION SIGNAGE AND BARRICADING, INCLUDING BUT NOT LIMITED TO, WASHING, REPLACEMENT, AND REPOSITIONING OF DEVICES WHEN AND WHERE IT IS DEEMED NECESSARY BY THE CITY OR ENGINEER, THE CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL TRAFFIC CONTROL DEVICES.
5.

LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AREA AT ALL TIMES. LOCAL TRAFFIC TO ALL PUBLIC AND PRIVATE STREETS SHALL BE ACCESSIBLE FROM ANY DETOURS DURING THE CONSTRUCTION OF THIS PROJECT.
6.

ROADSIDE HAZARDS SHALL BE COMPLETELY BARRICADED AROUND THEIR PERIMETER FOR SAFETY OF PEDESTRIANS AND VEHICLES. NO BARRICADES SHALL BE PLACED UNTIL ALL ADVANCED SIGNING IS IN PLACE.
7.

ALL CHANNELING DEVICES, TYPE III BARRICADES, ETC., SHALL BE WEIGHTED DOWN WITH A NON-HAZARDOUS MATERIAL WHEN NECESSARY OR WHEN DIRECTED BY THE CITY OR THE ENGINEER.
8.

ALL ADVANCE WARNING SIGNS SHALL BE PROVIDED WITH TYPE "A" WARNING LIGHTS.
9.

ALL TYPE III BARRICADES SHALL BE FURNISHED WITH A MINIMUM OF TWO (2) TYPE "A" WARNING LIGHTS.
10.

ALL CHANNELING DEVICES SHALL BE PROVIDED WITH TYPE "C" WARNING LIGHTS.
11.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE RESIDENCES AND BUSINESSES AT ALL TIMES.
12.

ALL SIGNAL AND ELECTRICAL WORK TO BE DONE BY A LICENSED ELECTRICAL CONTRACTOR.

UTILITIES

1.

THE LOCATION OF THE UTILITY LINES, AS SHOWN ON THESE DRAWINGS, ARE BASED ON ATLAS INFORMATION AND OBSERVED FEATURES. NEITHER THE CITY NOR THE ENGINEER IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA. SERVICE LINES FROM THE MAIN UTILITY LINES TO ANY BUILDING OR FACILITY MAY NOT BE SHOWN. CONTRACTOR SHALL OBTAIN THE LOCATION OF THESE FROM THE UTILITY COMPANY AND SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES TO THESE LINES OR ANY OTHER LINES OR UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.
2.

THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. A MINIMUM OF TWO (2) WORKING DAYS AND A MAXIMUM OF TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK IN ANY AREA. PHONE: 1-800-522-6543.

SPECIAL NOTES

1.

SEQUENTIAL RESTORATION
THIS RESTORATION SHALL INCLUDE BUT IS NOT LIMITED TO, SUCH ITEMS AS SODDING, REPLACEMENT OF SIDEWALKS, FENCES, DRIVEWAYS, AND STREET PAVEMENT, GROUTING OF SEWER SCHEDULED TO BE ABANDONED, AND ANY OTHER ITEMS SPECIFICALLY SHOWN ON THE PLANS.

ANY RESTORATION WORK DAMAGED OR DESTROYED BY THE CONTRACTOR'S SUBSEQUENT WORK SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. NO ADDITIONAL PAYMENT SHALL BE MADE FOR SEQUENTIAL RESTORATION.
2.

PROPERTY OWNER NOTIFICATIONS
ALL PROPERTY OWNERS ADJACENT TO THE ALIGNMENT SHALL BE NOTIFIED OF THE PROJECT WITHIN SEVEN (7) CALENDAR DAYS BEFORE CONSTRUCTION ON OR ADJACENT TO THE PROPERTY, AND A MINIMUM OF 48 HOURS BEFORE CONSTRUCTION.
3.

TRANSITIONS BETWEEN PIPE TYPES
TRANSITION BETWEEN PIPE TYPES MAY ONLY BE MADE AT MANHOLES. IN THE EVENT THE CONTRACTOR DESIRES TO MAKE A TRANSITION BETWEEN PIPE TYPES AT ANY OTHER POINT, THEY SHALL INSTALL AN ADDITIONAL MANHOLE AT THE POINT OF TRANSITION BETWEEN THE PIPE TYPES. THIS TRANSITION MANHOLE WILL BE CONSIDERED AS INCIDENTAL WORK AND WILL NOT BE MEASURED FOR PAYMENT.
4.

ASPHALT STREET REPAIR
AFTER PIPE INSTALLATION, THE CONTRACTOR SHALL BACKFILL & PATCH EXISTING ASPHALT STREETS IN ACCORDANCE WITH THE CITY OF TULSA STANDARDS DRAWING NO. 733.

5.

CONCRETE STREET REPAIR
ALL CONCRETE PAVEMENT CUTS SHALL BE IN ACCORDANCE WITH DETAIL NO. 714 AND STD. DRAWING NO. 733. LIMITS OF PAYMENT ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT LOCATION OF CONSTRUCTION JOINTS.
6.

TRENCH SAFETY
CONTRACTOR SHALL FOLLOW REQUIREMENTS FOR EXCAVATION AND TRENCH SAFETY PER CITY OF TULSA SPECIFICATION NO. 112 AND GUIDELINES SET BY THE US DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). TRENCH SAFETY SHALL BE CONSIDERED INCIDENTAL WORK AND WILL NOT BE MEASURED FOR PAYMENT. CONTRACTOR REQUIRED TO PROVIDE SHORING IF NEEDED. CONTRACTOR SHALL SUBMIT SHORING AND ENGINEERING TRENCH PLAN FOR APPROVAL.
7.

MANHOLES
MANHOLES 1 - 10 SHALL REQUIRE A FLOOD PLAIN FRAME & COVER PER STD 359. MANHOLES 11-17 SHALL REQUIRE STD 402. NO STEPS ON ANY MANHOLE. ALL MANHOLE LIDS SHALL BE IN ACCORDANCE WITH STD 354, WITH 30-INCH LIDS
8.

BYPASS PUMPING
THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL NECESSARY BYPASS PUMPING DURING SANITARY SEWER CONSTRUCTION. NO ADDITIONAL PAYMENT SHALL BE MADE. CONTRACTOR MUST ENSURE PROPER PROTOCOLS IN PLACE FOR 24-HOUR MONITOR BYPASS PUMPING AND THAT THE CONTRACTOR MUST COMPLETE A SOM BYPASS PUMPING FORM BEFORE COMPLETING ANY BYPASS PUMPING.
9.

CONSTRUCTION LIMITS
ALL CONSTRUCTION AND SPOILS ON PRIVATE PROPERTY SHALL BE CONFINED TO THE PERMANENT AND TEMPORARY CONSTRUCTION EASEMENTS. ALL CONSTRUCTION AND SPOILS IN THE CITY OR STATE RIGHT-OF-WAY SHALL BE CONFINED TO THE ROW LIMITS AND NOT EXCEED 28 L.F. FROM PROPOSED ALIGNMENT.



BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISION		BY	DATE
ADDENDUM 2		DAS	7/16/2025
GENERAL NOTES(2)			
TMUA PROJECT NUMBER ES 2020-07			
CITYWIDE LIFT STATION IMPROVEMENTS GRAVITY SEWER			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: HOLLOWAY, UPDKE + BELLEN, Inc. 2001 N WILLOW AVE. BROKEN ARROW, OKLAHOMA 74012 918.938-0725, FAX 918.938-0754			
PLAN SCALE:	DRAWN	PGM	07/2025
	DESIGNED	TJR	07/2025
	SURVEY	CWC	07/2025
PROFILE SCALE:			
HORIZONTAL:	PROJ. MGR.		
	LEAD ENGR.		
VERTICAL	FIELD MGR.		
FILE:		DATE: 2025	
DRAWING: 21TMUAKINGST		DESIGN MANAGER	
ATLAS PAGE NO: 120, 167			SHEET 3 OF 32 SHEETS



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SUMMARY OF QUANTITIES - SANITARY SEWER					
ITEM NO.	SPEC. NO	ITEM DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY
SANITARY SEWER (BASE BID)					
1	COT 101	PROJECT SIGN (CITY OF TULSA)		EA	1
2	COT 220	SWPPP DOCUMENTATION & MANAGEMENT		EA	1
3	COT 301	RIGHT-OF-WAY CLEARING & RESTORING	1, 2, 3, 11	SY	8,027
4	COT 302	UNCLASSIFIED EXCAVATION AND BACKFILL		CY	2,993
5	COT 303	MOBILIZATION		EA	1
6	ODOT 303(A)	AGGREGATE BASE TYPE (A)		CY	2,433
7	COT 304	CONTRACTOR CONSTRUCTION STAKING		EA	1
8	COT 307	20 INCH STEEL CASING BY BORE & JACK	8	LF	310
9	COT 307	20 INCH CONCRETE CASING		LF	30
10	COT 309	6 INCH PVC AWWA C900 CLASS 200, DR 14 (WATER LINE)	13	LF	50
11	COT 313	8 INCH DIA. PVC SDR 26	3, 4, 6, 12	LF	3,730
12	COT 314	4.0 FOOT DIA. STANDARD MANHOLE (0-6 FEET)	14, 15, 16, 17	EA	16
13	COT 314	4.0 FOOT DIA. STANDARD MANHOLE EXTRA DEPTH OVER 6 FEET	14, 15, 16, 17	VF	54
14	COT 314	4.0 FOOT DIA. DROP MANHOLE (0-6 FEET)	14, 15, 16, 17	EA	1
15	COT 314	4.0 FOOT DIA. DROP MANHOLE EXTRA DEPTH OVER 6 FEET	14, 15, 16, 17	VF	8
16	COT 325	SODDING	5	SY	157
17	COT 325	HYDROMULCHING	5	SY	2,559
18	COT 327	TRENCH SAFETY PLAN		EA	1
19	COT 327	TRAFFIC CONTROL	10, 18, 19	CD	365
20	COT 330	SILT FENCE		LF	3,265
21	COT 331	WATER TABLE CRADLE	6	LF	1,027
22	COT 334	CONSTRUCTION AS-BUILTS		LS	1
23	COT 335	ACCEPTANCE SAMPLING/TESTING REQUIREMENTS		LS	1
24	COT 400.7.5	PHOTOGRAPHIC DOCUMENTATION		EA	1
25	COT 404	DEMOLISH EXISTING LIFT STATION	7	LS	1
26	COT 404	ABANDON EXISTING 6 INCH C.I. FORCE MAIN		LS	1
27	ODOT 601(E)	LAID UP RIP RAP		TON	210
28	ODOT 601(E)	TURF REINFORCEMENT MAT		SY	7,745
29	ODOT 601(B)	FILTER FABRIC		SY	419
30	SPECIAL	OWNER'S ALLOWANCE	9	ALLOW	100,000
ROADWAY (BASE BID)					
31	ODOT 202(A)	UNCLASSIFIED EXCAVATION AND BACKFILL	E-1, E-2	CY	2540
32	ODOT 230(A)	SOLID SLAB SODDING	E-10, E-11	SY	850
33	ODOT 303(A)	AGGREGATE BASE TYPE (A)	S-1,S-2,S-23	CY	995
34	ODOT 310(B)	SUBGRADE METHOD "B" - 8 INCHES		SY	2965
35	COT 325	SEPARATOR FABRIC	S-3	SY	3111
36	ODOT 411(C)	SUPERPAVE, INSOLUBLE TYPE S4 (PG 64-22 OK)	S-5,S-6,S-7,S-8	TON	272
37	ODOT 411(C)	SUPERPAVE, TYPE S3 (PG 64-22 OK)	S-5,S-6,S-7,S-8,G-1	TON	1177
38	ODOT 610(B)	CONCRETE DRIVEWAY (6 INCH -H.E.S.)	S-12,S-13,S-16,S-17	SY	9
39	ODOT 610(G)	ASPHALT DRIVEWAY (6 INCH)	S-12,S-13,S-16,S-17	SY	73
40	ODOT 619(B)	REMOVAL OF PAVEMENT	R-1, R-2, R-5, R-6, R-7	SY	3111
41	ODOT 619(B)	REMOVAL OF ASPHALT DRIVEWAY	R-1, R-2, R-5, R-6, R-7	SY	73
42	ODOT 619(B)	REMOVAL OF CONCRETE DRIVEWAY	R-1, R-2, R-5, R-6, R-7	SY	9
SANITARY SEWER (ADDITIVE ALTERNATE NO. 1)					
43	COT 301	RIGHT-OF-WAY CLEARING & RESTORING (DEDUCT)	1, 2, 3, 11	SY	-250
44	COT 302	UNCLASSIFIED EXCAVATION AND BACKFILL (DEDUCT)		CY	-88
45	COT 307	20 INCH STEEL CASING BY BORE & JACK	8	LF	60

PAY ITEM NOTES (SANITARY SEWER)

- ITEM INCLUDES THE COST FOR REMOVAL OF TREES AND SHRUBS WITHIN EASEMENTS AND REMOVING AND REPLACING EXISTING FENCE AND SIDEWALK IF DISTURBED BY CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING, NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
- CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION, PAYMENT SHALL BE INCLUDED IN RIGHT-OF-WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENTS SHALL BE MADE.
- ITEM INCLUDES THE COST OF RELOCATING, ADJUSTING AND BRACING OF EXISTING UTILITIES IF NECESSARY. NO ADDITIONAL PAYMENTS SHALL BE MADE.
- DEVELOPED AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY SODDING. HYDROMULCH SEEDING WILL BE ALLOWED IN UNDEVELOPED LOTS AT NO ADDITIONAL COST TO THE CITY OF TULSA. MAXIMUM PAY LIMIT FOR SODDING AND SEEDING SHALL BE STANDARD 10 FEET ON EITHER SIDE OF CENTERLINE OF PIPE. MAXIMUM PAY WIDTH OF 20 FEET.
- WATER TABLE CRADLE SHALL BE USED WHERE TRENCH CONDITIONS WARRANT ITS USE AS APPROVED BY THE ENGINEER. SHALL BE INSTALLED PER STANDARD DRAWING NO. 367.
- ITEM INCLUDES THE DEMOLITION OF STRUCTURES, CONCRETE PAVEMENT, CONCRETE DRIVEWAY, LIFT STATION FENCING, PIPE CULVERT, RE-GRADING LIFT STATION AREA AND RE-ESTABLISHING THE DITCH, REPLACE EXISTING PRIVATE FENCE IN AREA WHERE LIFT STATION WAS WITH LIKE KIND, AND SODDING OF ALL DISTURBED AREAS. IT ALSO INCLUDES DELIVERY OF ALL SALVAGED ITEMS, DISPOSAL OF REMAINING ITEMS. ALSO INCLUDES COST OF PUMPING SEWAGE AROUND THE EXISTING LIFT STATION DURING THE TIME OF THE LIFT STATION'S REMOVAL FROM SERVICE UNTIL CONSTRUCTION OF THE NEW GRAVITY LINE IS COMPLETED AND IN SERVICE.
- ITEM INCLUDES THE COST OF EXCAVATING AND BACKFILLING BORE PIT AND RECEIVING PIT. INCLUDES REMOVAL OF EXISTING 8" SEWER MAIN AND MANHOLES IN PROPOSED ALIGNMENT. NO SEPARATE PAYMENT SHALL BE MADE.
- ITEM INCLUDES THE COST OF ALL COMPONENTS AS SPECIFIED IN THE SPECIAL PROVISIONS.
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF OKLAHOMA FOR APPROVAL.
- ALL TREES DISTURBED IN THE DESIGNATED "UP WITH TREES" AREA SHALL BE REMOVED AND REPLANTED OR REPLACED IN LIKE-KIND AS REQUIRED BY THE CITY OF TULSA URBAN FORESTER. DO NOT REPLANT TREES WITHIN 20 FEET FROM THE CENTERLINE OF THE SEWER LINE IN EITHER DIRECTION.
- PAY ITEM SHALL INCLUDE ALL COSTS FOR FLOWABLE FILL TO SEPARATE 24" STORM SEWER FROM PROPOSED SANITARY SEWER.
- PAY ITEM SHALL INCLUDE ALL COSTS ASSOCIATED TO LOWER WATERLINE. INCLUDING, BUT NOT LIMITED TO, BENDS, SLEEVES, EXCAVATION, AND BACKFILL.
- THE MANHOLE RING, COVER, GROUT, WATERTIGHT SEAL, 80 MILS OF RAVEN 405 EPOXY OR APPROVED EQUAL AND OTHER MATERIALS INCIDENTAL TO THE CONSTRUCTION OF MANHOLES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH ASSOCIATED MANHOLE PAY ITEM; NO ADDITIONAL PAYMENT SHALL BE MADE. 4-FOOT I.D. MANHOLES AND 5-FOOT I.D. SHALLOW MANHOLES SHALL NOT BE EPOXY COATED.
- ALL RISER RINGS INSTALLED ON EXISTING AND NEW MANHOLES SHALL BE CRETEX PRO-RING OR ENGINEER APPROVED EQUAL. NO CONCRETE RISER RINGS ARE PERMITTED FOR USE UNLESS APPROVED BY ENGINEER.
- ALL NEW MANHOLES SHALL HAVE WALL JOINTS WRAPPED WITH 9-INCH INFI-SHIELD GATOR WRAP AS MANUFACTURED BY SEALING SYSTEMS INC. OR ENGINEER APPROVED EQUAL. (NO SEPARATE PAYMENT).
- ALL NEW MANHOLES SHALL HAVE 30-INCH LIDS.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THIS ITEM SHALL BE PAID PER CALENDAR DAYS FOR ALL NECESSARY TRAFFIC CONTROL.
- PAYMENT IS NOT GUARANTEED FOR FULL AMOUNT OF CALENDAR DAYS LISTED. PAYMENT FOR TRAFFIC CONTROL WILL BE BASED ON ACTUAL CALENDAR DAYS THAT TRAFFIC CONTROL ITEMS AND/OR DEVICES ARE USED.



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REVISION	BY	DATE
ADDENDUM 2	DAS	7/16/2025

SUMMARY OF QUANTITIES		
TMUA PROJECT NUMBER ES 2020-07		
CITYWIDE LIFT STATION IMPROVEMENTS GRAVITY SEWER		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: HOLLOWAY, UPDIKE & BELLEN, Inc. 2001 N WILLOW AVE, BROKEN ARROW, OKLAHOMA 74012 (918) 259-4757, FAX (918) 259-4754		
PLAN SCALE:	DRAWN PGM 07/2025 DESIGNED TJR 07/2025	APPROVED: for T&P
PROFILE SCALE:	SURVEY CWC 07/2025	DESIGN MANAGER
HORIZONTAL:	PROJ. MGR. LEAD ENGR.	
VERTICAL:	FIELD MGR.	
FILE:	DRAWING: 21TMUAKINGST	DATE: 2025
ATLAS PAGE NO: 120, 167		SHEET 6 OF 32 SHEETS



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PAY ITEM NOTES (ROADWAY)

EARTHWORK / EROSION CONTROL / SITE PREPARATION (E1 - E11)

- E-1: ALL COSTS FOR REMOVING TREES, SHRUBS, STUMPS, POSTS, AND ALL OTHER DEBRIS AND/OR OBSTRUCTIONS NOT COVERED BY A SEPARATE PAY ITEM ARE INCLUDED IN THE PRICE BID.
- E-2: ALL EXISTING DRAINAGE STRUCTURES SHALL BE CLEANED AND CLEARED OF ALL SEDIMENTATION AND DEBRIS TO THE RIGHT OF WAY. COST OF CLEARING SHALL BE INCLUDED IN THE PRICE BID.
- E-3: NOT USED
- E-4: NOT USED.
- E-5: NOT USED.
- E-6: NOT USED
- E-7: NOT USED
- E-8: NOT USED.
- E-9: NOT USED.
- E-10: ESTIMATED QUANTITY IS BASED ON SODDING OF ALL DISTURBED AREAS OUTSIDE THE FINAL PAVING LIMITS AND WITHIN THE FINAL GRADING LIMITS AS INDICATED BY THE TOP-OF-CUT/TOE-OF-SLOPE LINE ON THE PLANS (EXCLUDING SURFACES OF STRUCTURES, FIXTURES AND APPURTENANCES). SOD SHALL BE OF LIKE-KIND TO EXISTING SOD. PRICE BID INCLUDES PLACEMENT AND COMPACTION OF SUITABLE BACKFILL. ANY EXISTING GRASSED AREAS BEYOND THE ABOVE SEATED LIMITS THAT ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESODDED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS SOLE EXPENSE.
- E-11: COST OF WATERING AND FERTILIZING SHALL BE INCLUDED. FERTILIZERS SHALL BE 10-20-10 AND SHALL BE APPLIED AT THE RATE OF 1.5LBS PER 10 SQ YDS. FERTILIZER SHALL BE APPLIED PER SECTION 230.04H OF ODOT STANDARD SPECIFICATIONS. WATERING SHALL BE APPLIED AS NECESSARY UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE WORK IS ACCEPTED AS COMPLETE.

SURFACING / STRUCTURES (S1 - S8)

- S-1: TYPE A AGGREGATE BASE WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 90% OF THE PATCHING. QUICK SET FLOWABLE FILL WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 10% OF THE PATCHING. ACTUAL QUANTITIES TO BE DETERMINED BY THE ENGINEER.
- S-2: INCLUDES COMPACTION OF AGGREGATE UP TO 98% AASHTO T180 MODIFIED PROCTOR.
- S-3: SEPARATOR FABRIC SHALL BE USED AT ALL PAVEMENT PATCHES AND RECONSTRUCTION SECTIONS. THE SEPARATOR FABRIC SHALL BE CUT AND OVERLAPPED A MINIMUM OF 2 FT AT ALL EDGES OF THE REPAIR.
- S-4: NOT USED.
- S-5: THE COST OF TACK COAT, EDGE JOINT SEAL MATERIAL AND SCREENINGS FOR BLOTTING, AND ALL LABOR ASSOCIATED WITH THESE ITEMS, SHALL BE INCLUDED IN ASPHALT CONCRETE.
- S-6: ESTIMATED AT 112 LBS PER SQ YD PER 1 INCH THICK.
- S-7: ODOT PAY FACTOR FOR AVERAGE LOT DENSITY SHALL NOT BE USED FOR THIS PROJECT. FAILURE TO REACH AVERAGE LOT DENSITY OF 92%-97% WILL RESULT IN REJECTION OF WORK.
- S-8: A HIGHER GRADE OF ASPHALT BINDER THAN IS INDICATED ON THE PLANS MAY BE USED, BUT AT NO ADDITIONAL COST TO THE CITY.
- S-8 (TABLE):

BINDER GRADE	MESALs	ADT NOTES(1.)	
PG 64-22 OK	< 3	< 5,000	USE WHEN MORE THAN 4-6 INCHES BELOW THE SURFACE. ALSO USE FOR SHOULDERS, DRIVEWAYS, BELOW PCC, AND TEMPORARY CONSTRUCTION.
PG 70-28 OK	< 10	< 10,000	USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES.
PG 76-28 OK	>= 10	>= 10,000	USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES.
PG 76-28 E	--	--	CONTACT ODOT MATERIALS DIVISION FOR RECOMMENDED USE.

- (1) USE ADT ONLY WHEN ESAL COMPUTATIONAL DATA IS NOT AVAILABLE. CALCULATE THE DESIGN ESALs BASED ON 20 YEARS.
- (2) PG 76-28 E OK OR PG 76-28 OK MAY BE DESIREABE IN HIGH VOLUME AREAS WHERE SLOW, STANDING, OR TURNING TRAFFIC OCCURS, SUCH AS URBAN INTERSECTIONS OR OFF-RAMPS. OFF RAMPS SHOULD AT LEAST USE THE SAME BINDER AD THE MAINLINE.

- S-12: THE USE OF FLY-ASH IN CONCRETE IS PROHIBITED.
- S-13: INCLUDES ALL COST OF SAWED JOINTS AND SEALING OF ALL JOINTS INCLUDING LONGITUDINAL JOINTS.
- S-16: CURB, GUTTER, AND/OR SIDEWALK ASSOCIATED WITH THE DRIVEWAY AND THROUGH THE DRIVEWAY IS INCLUDED IN THE COST OF THE DRIVEWAY.
- S-17: ONE SIDEWALK PANEL ON EACH SIDE OF DRIVEWAYS SHALL BE A MINIMUM OF 6" THICK OR MATCH EXISTING DRIVEWAY THICKNESS, WHICHEVER IS GREATER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THE COST OF THE THICKENED SIDEWALK THROUGH THIS AREA.



GENERAL

- G-1: LOCATIONS TO BE DETERMINED IN THE FIELD AND WORK TO BE PREFORMED AT THE DIRECTION OF THE FIELD ENGINEER. QUANTITY IS ESTIMATED AND MAY BE OMITTED IN ITS ENTIRETY.
- REMOVAL / ADJUSTMENT (R1- R6)
- R-1: WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER.
- R-2: ALL SAW CUTTING AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE ITEM TO BE ADJUSTED, REMOVED, REPAIRED, OR REPLACED.
- R-3: NOT USED.
- R-4: NOT USED.
- R-5: ITEMS TO BE REMOVED MAY OR MAY NOT BE PRESENT IN ANY SPECIFIED CONDITION.
- R-6: SHALL INCLUDE ALL COSTS ASSOCIATED WITH PLUGGING/ PATCHING HOLES IN EXISTING STRUCTURES TO REMAIN.

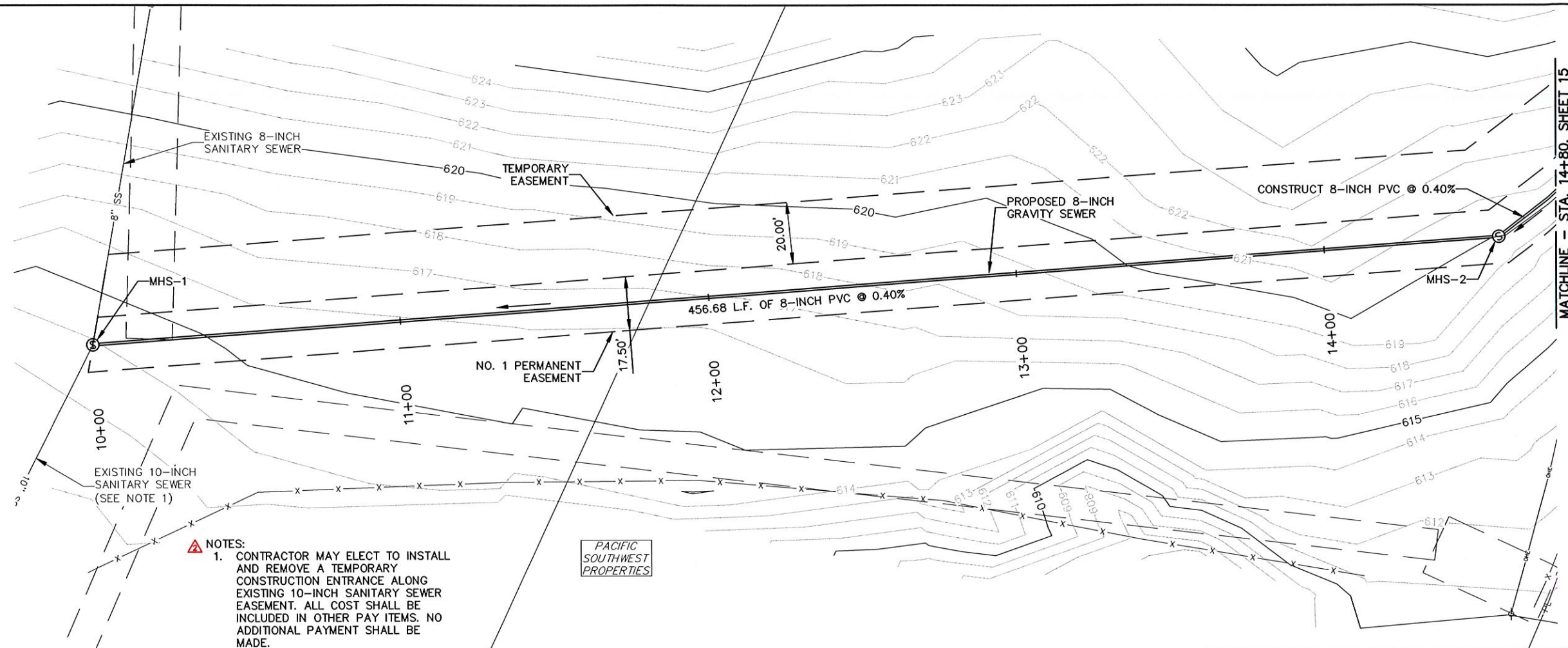
- ⚠** R-7: PAVEMENT REMOVAL AND REPLACEMENT FOR WATER, SANITARY, AND STORMWATER MAIN INSTALLATIONS - WITH RESPECT TO SAW CUTTING AND DOWELS, AND INCLUDES THE FOLLOWING (THESE ITEMS SHALL NOT BE PAID SEPARATELY):
- i. SAW CUTTING
 - ii. DOWELS
 - iii. DISPOSAL OF BROKEN PAVEMENT
 - iv. TEMPORARY SURFACES
 - v. ASSOCIATED EXCAVATION
 - vi. PREPARATION OF SUBGRADE
 - vii. FORMS OR REINFORCING
 - viii. REMOVAL OR REPLACEMENT OF GRAVEL
 - ix. ADDITIONAL SAW CUTTING OR REPLACEMENT OF PAVEMENT DAMAGED BY THE CONTRACTOR
 - x. JOINT SEALER, TACK COATS, OR EDGE SEALING
 - xi. THIS PAY ITEM DOES NOT INCLUDE THE FOLLOWING WHICH SHALL BE PAID SEPARATELY IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS, DETAILS AND DRAWINGS:
 - CURB AND GUTTER



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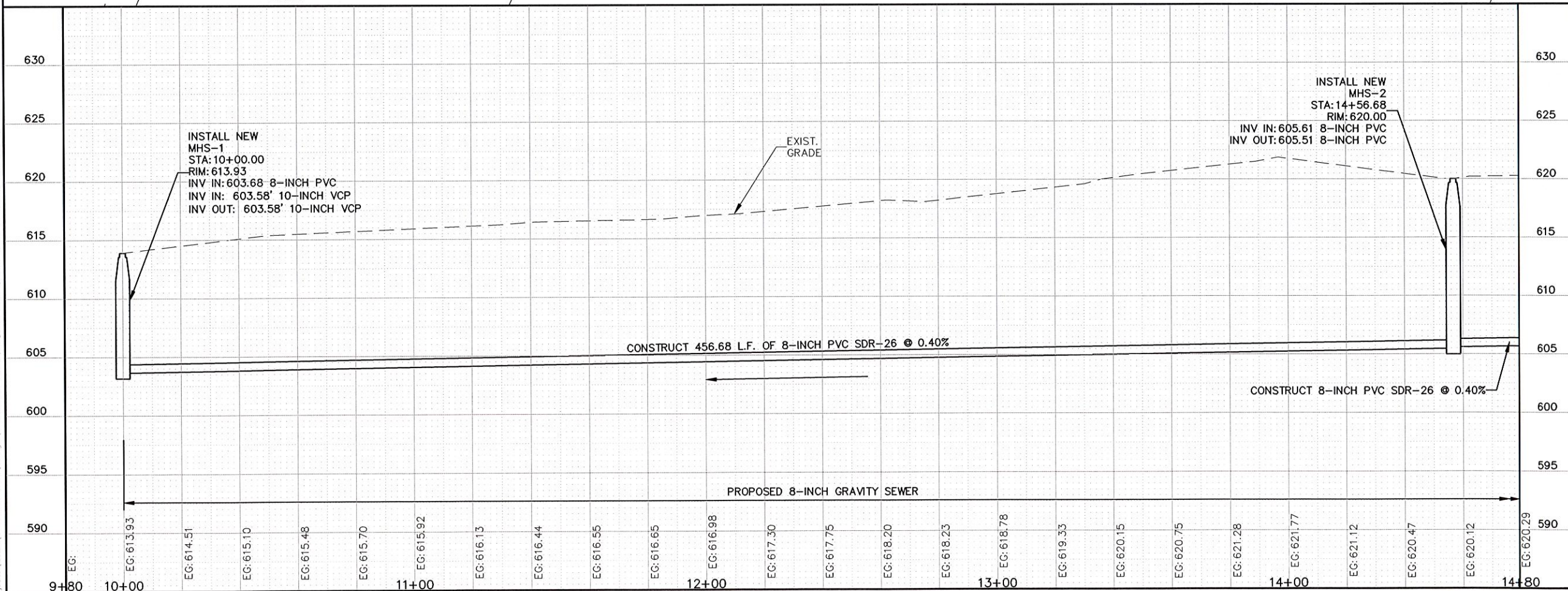
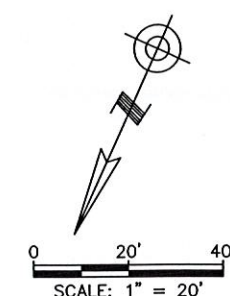
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PAY ITEM NOTES - ROADWAY					
TMUA PROJECT NUMBER ES 2020-07					
CITYWIDE LIFT STATION IMPROVEMENTS GRAVITY SEWER					
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT					
PLANS AND ESTIMATES PREPARED BY:  HOLLOWAY, UPDIKE + BELLEN, Inc. 2001 N WILLOW AVE. BROKEN ARROW, OKLAHOMA 74012 (918) 258-4722, FAX (918) 258-4724					
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	SURVEY	CWC	07/2025		
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	LEAD ENGR.				
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VERTICAL					
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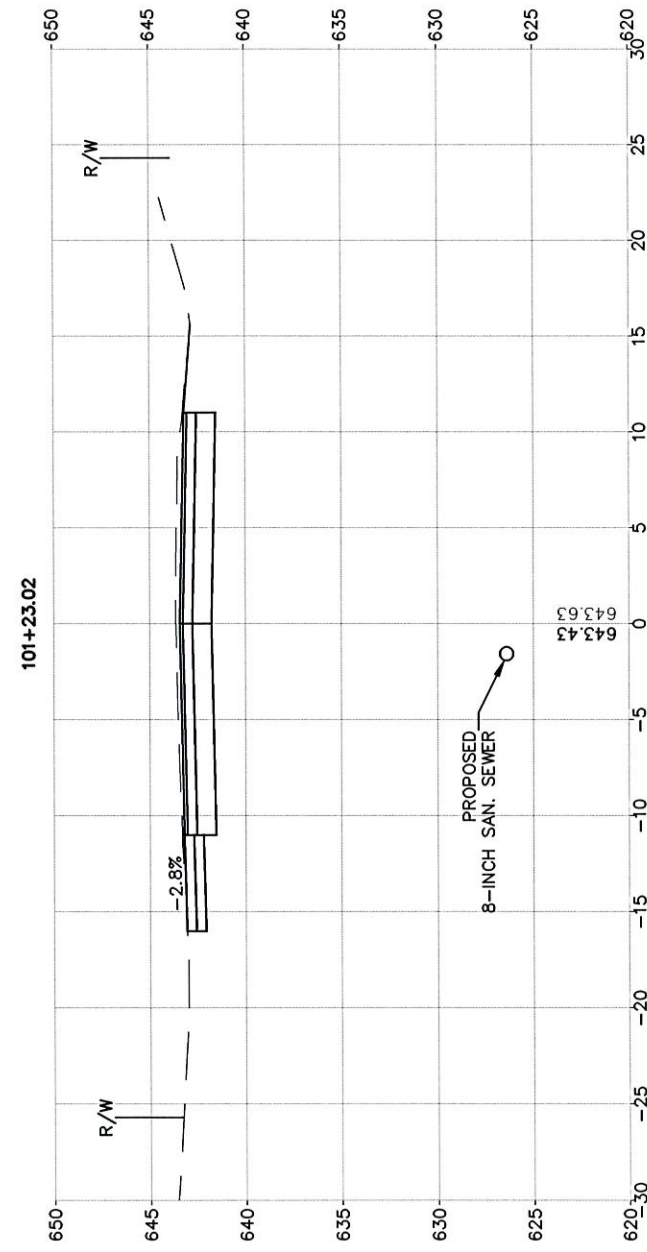
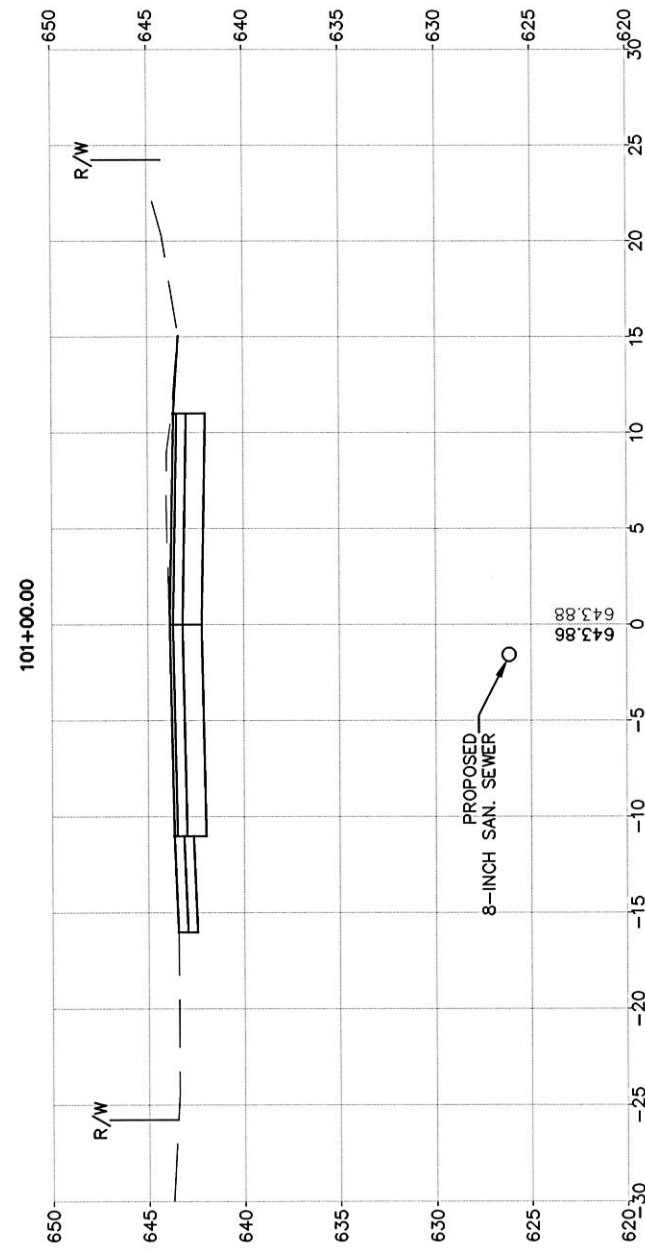
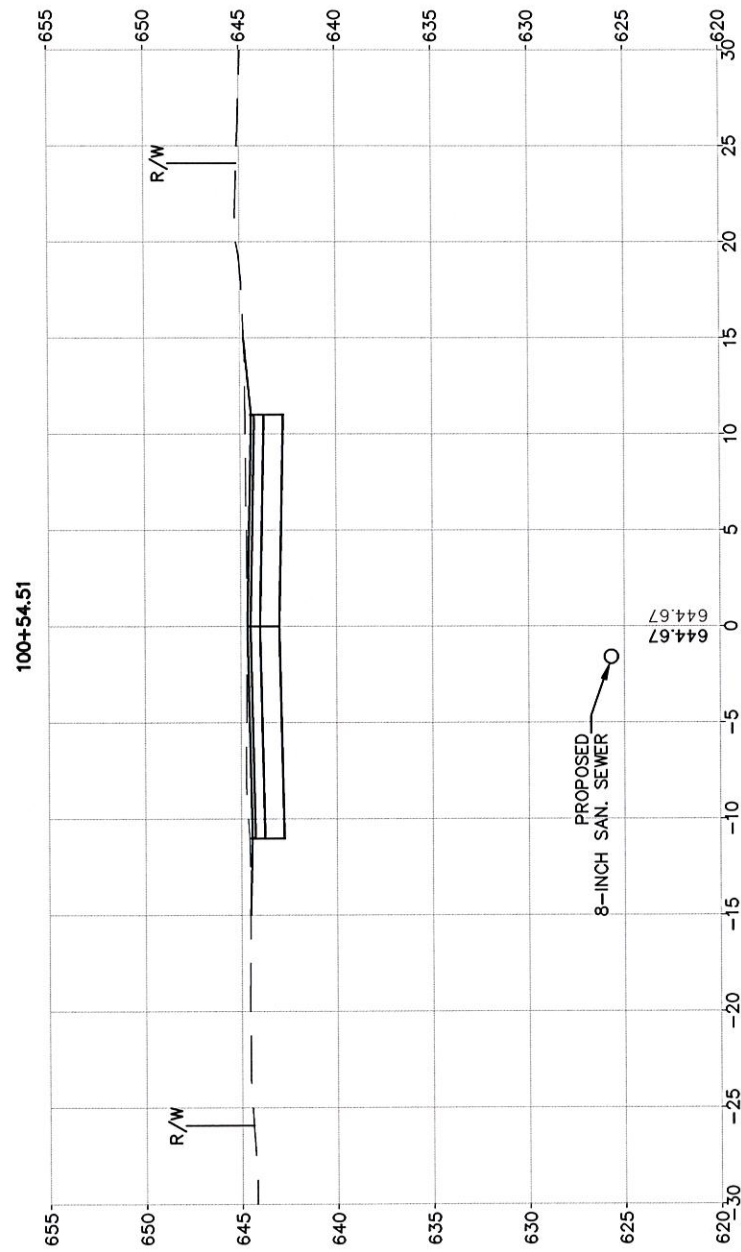


NOTES:

1. CONTRACTOR MAY ELECT TO INSTALL AND REMOVE A TEMPORARY CONSTRUCTION ENTRANCE ALONG EXISTING 10-INCH SANITARY SEWER EASEMENT. ALL COST SHALL BE INCLUDED IN OTHER PAY ITEMS. NO ADDITIONAL PAYMENT SHALL BE MADE.

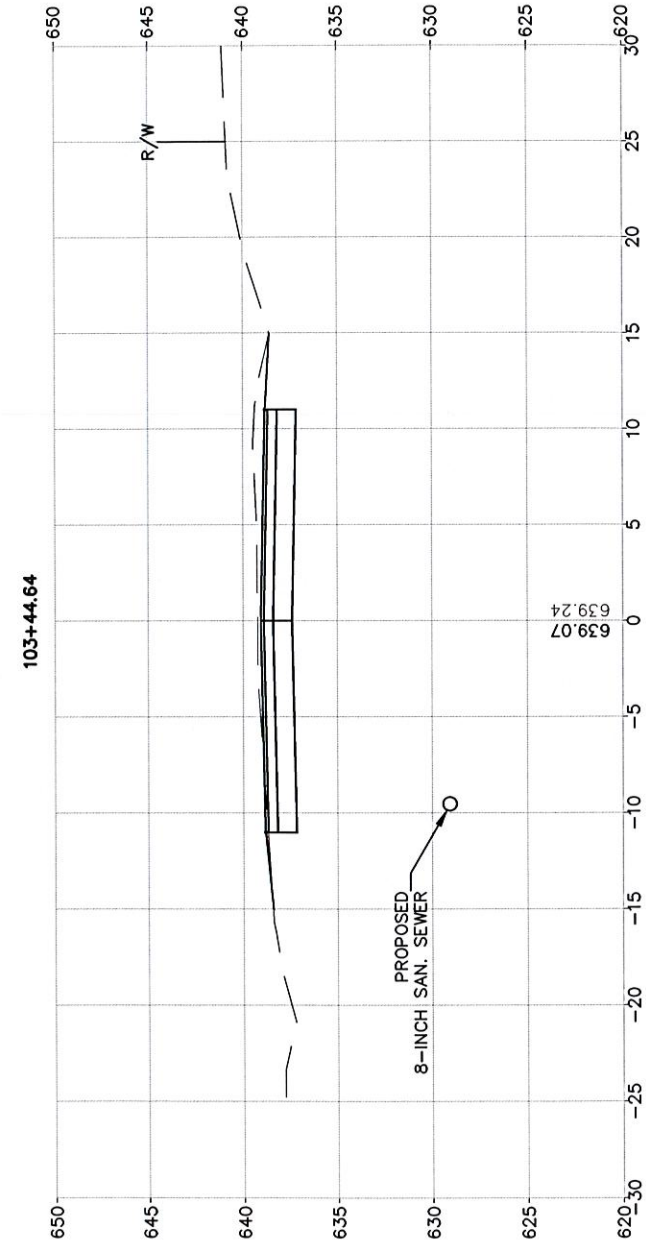
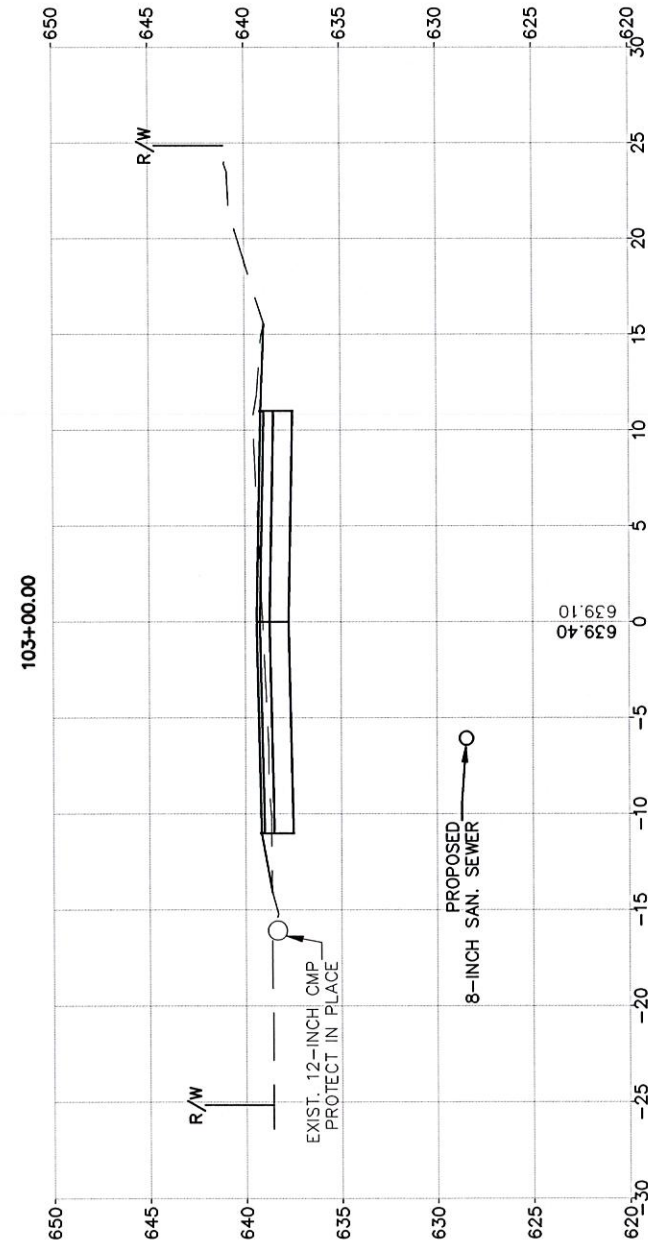
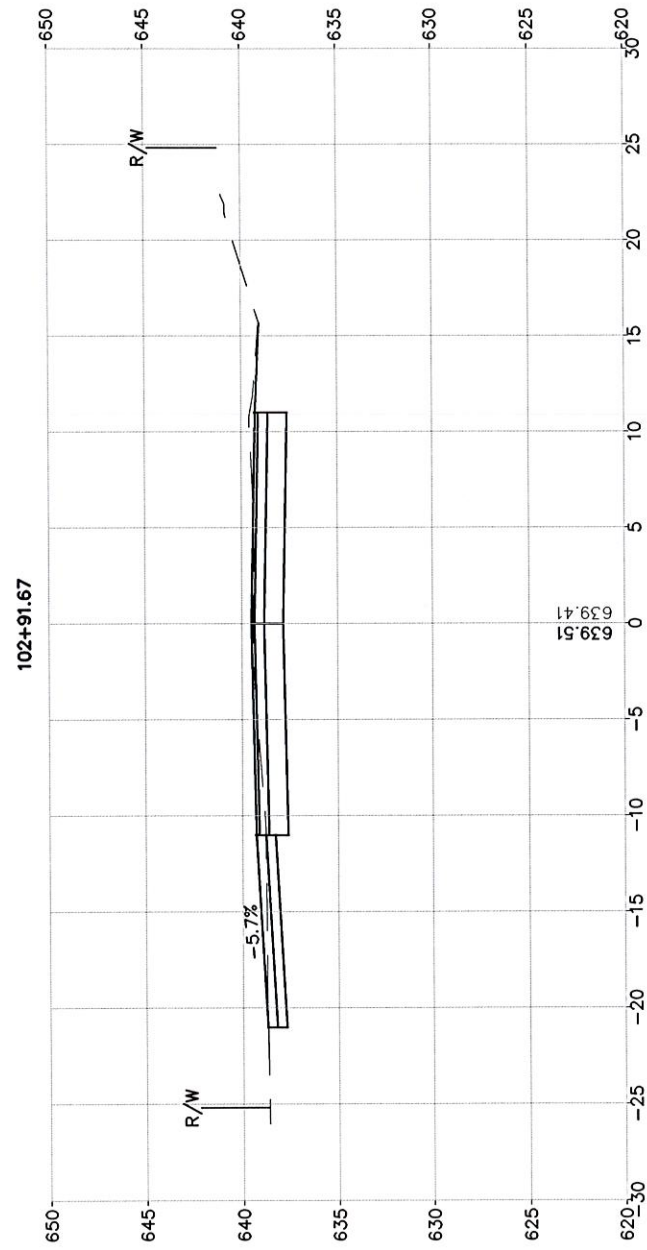
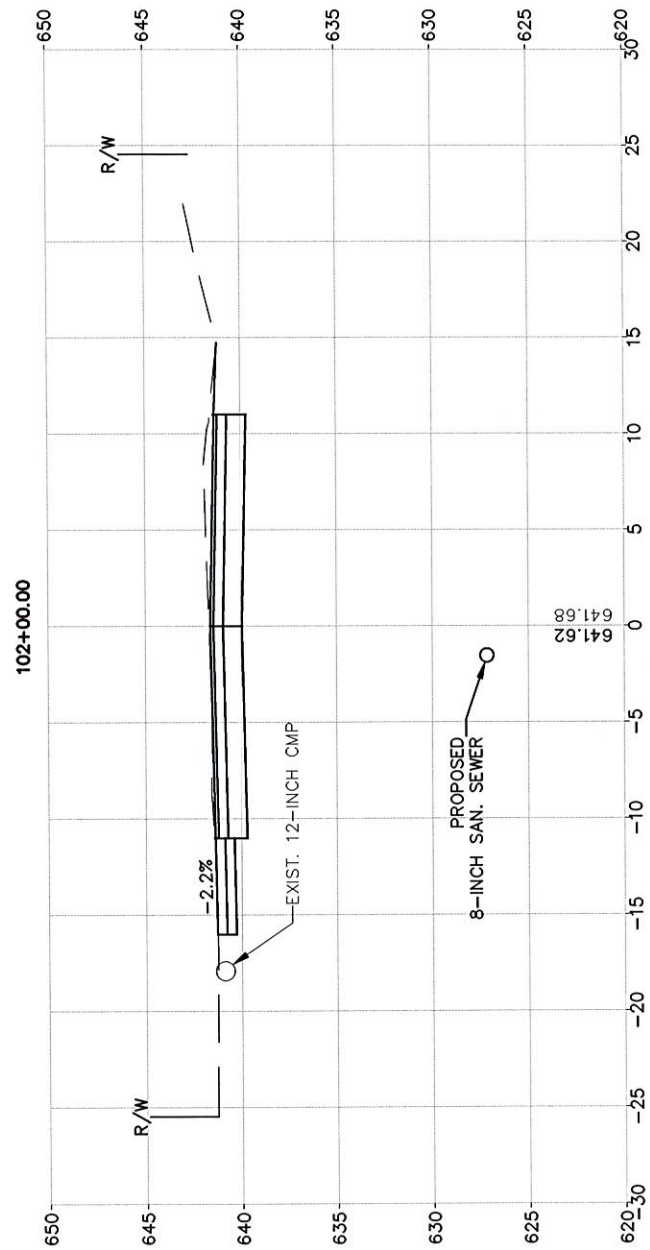


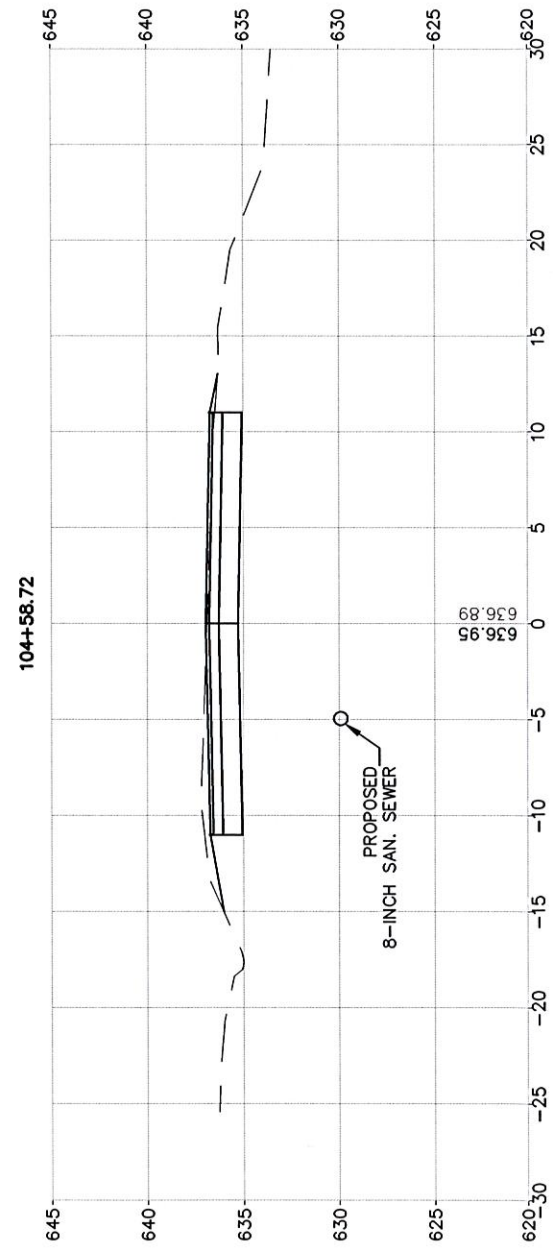
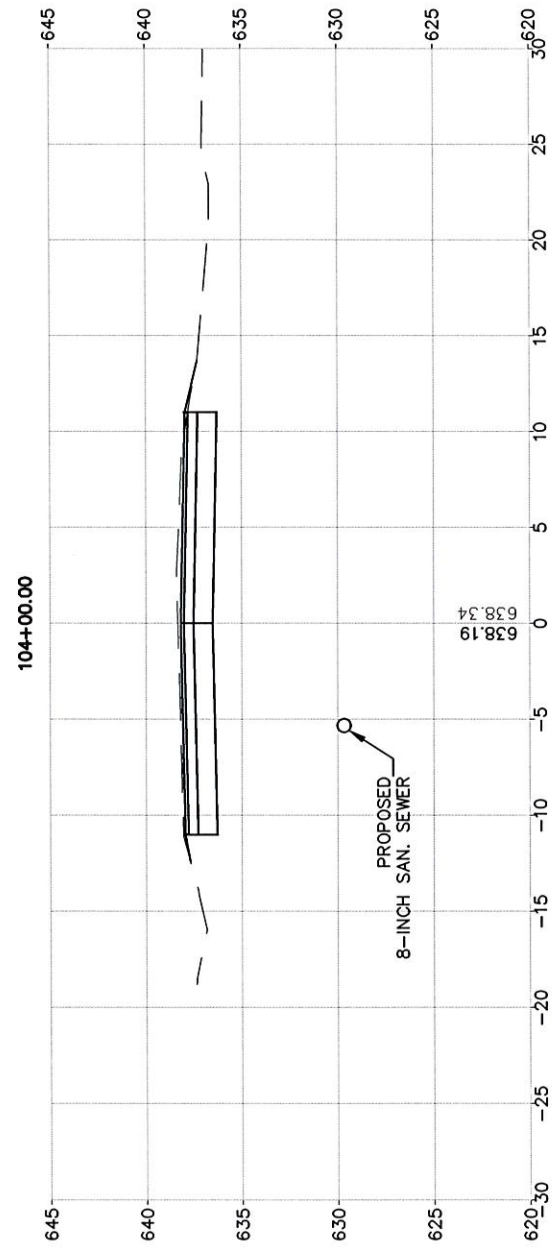
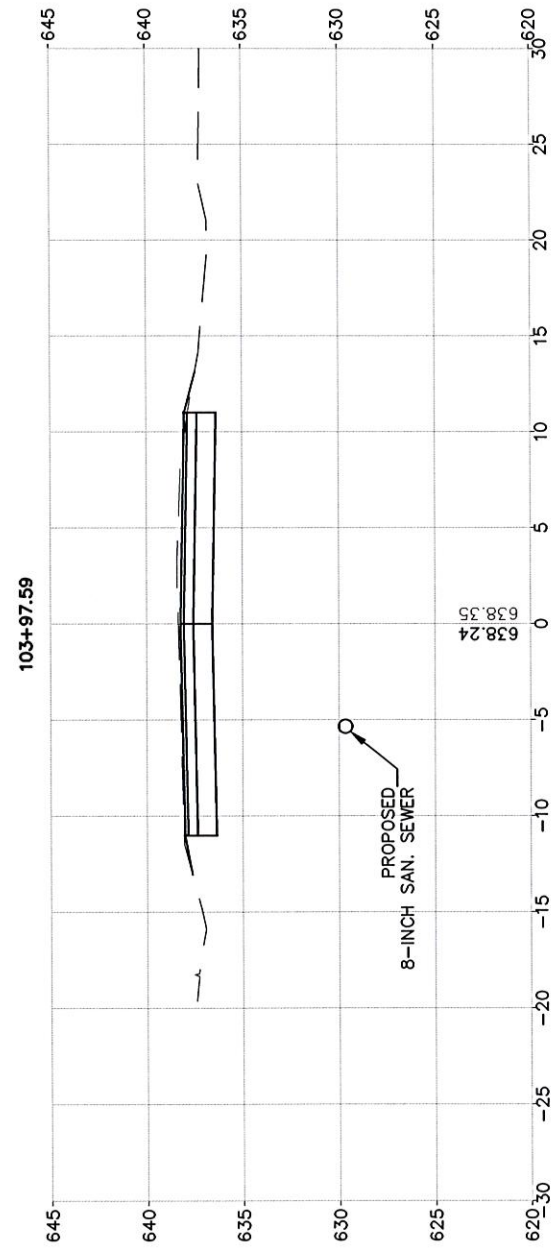
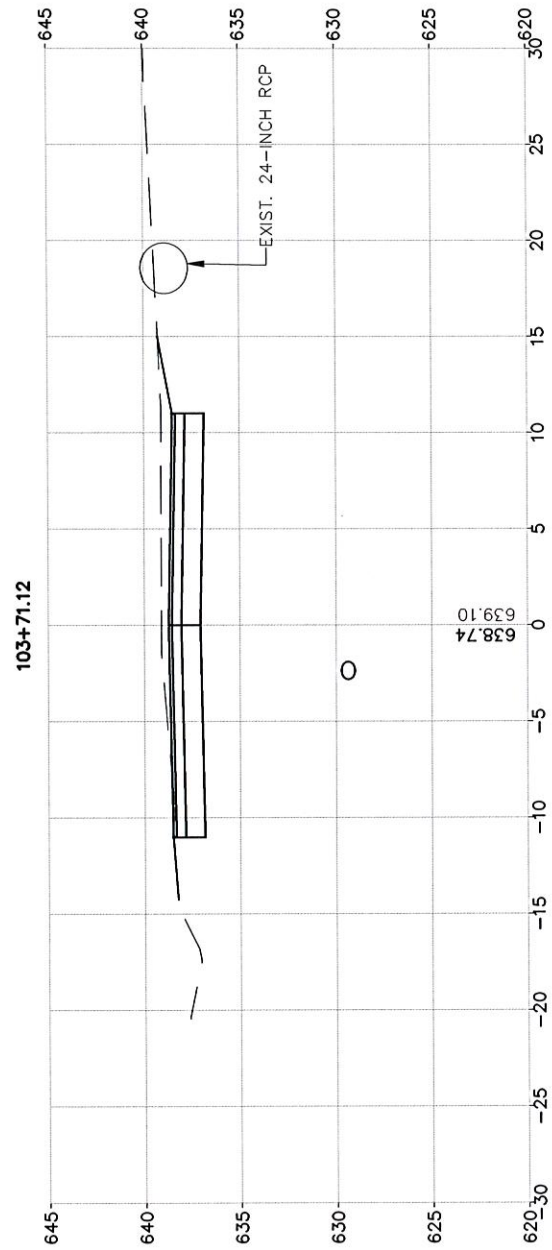
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SANITARY SEWER PLAN AND PROFILE (I)			
TMUA PROJECT NUMBER ES 2020-07			
CITYWIDE LIFT STATION IMPROVEMENTS GRAVITY SEWER			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:			
 ENGINEERS		HOLLOWAY, UPDIKE + BELLEN, Inc. 2800 N WILLOW AVE., BROKEN ARROW, OKLAHOMA 74612 918-638-0775 FAX 918-638-0734	
PLAN SCALE: 1"= 5'	DESIGNED	TJR	07/2025
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PROFILE SCALE: 1"= 5'	SURVEY	CWC	07/2025
	LEAD ENGR.		
HORIZONTAL: 1"= 5'	PROJ. MGR.		
	FIELD MGR.		
VERTICAL 1"= 5'			
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		SHEET 14 OF 32 SHEETS	



NOTE:
SEE PAGE 5 FOR TYPICAL SECTION DETAILS

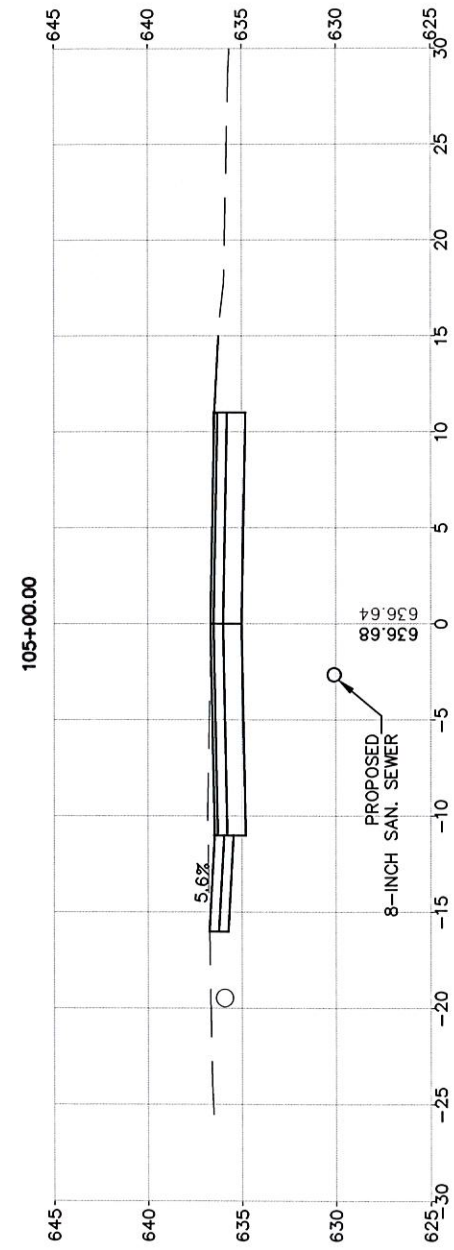
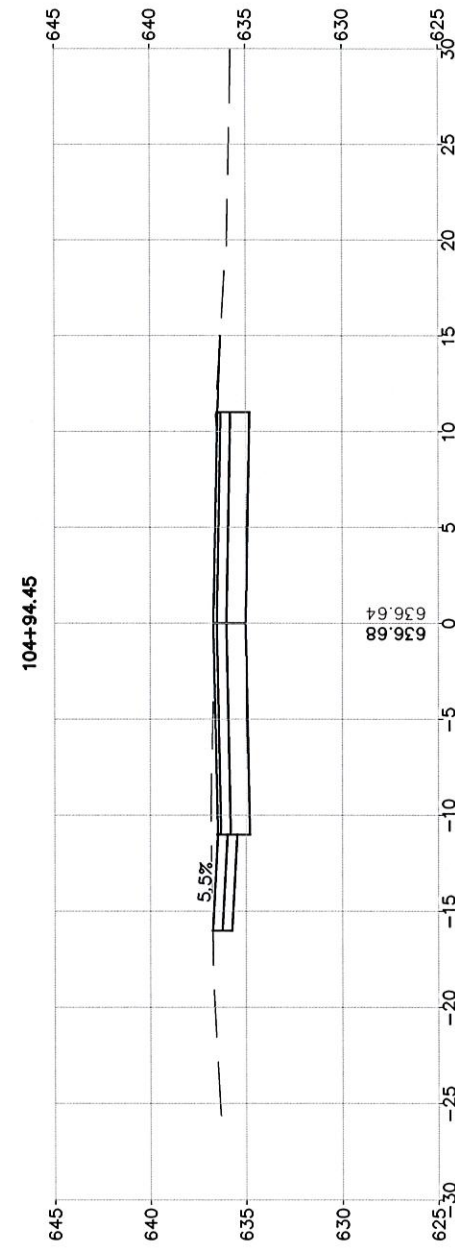
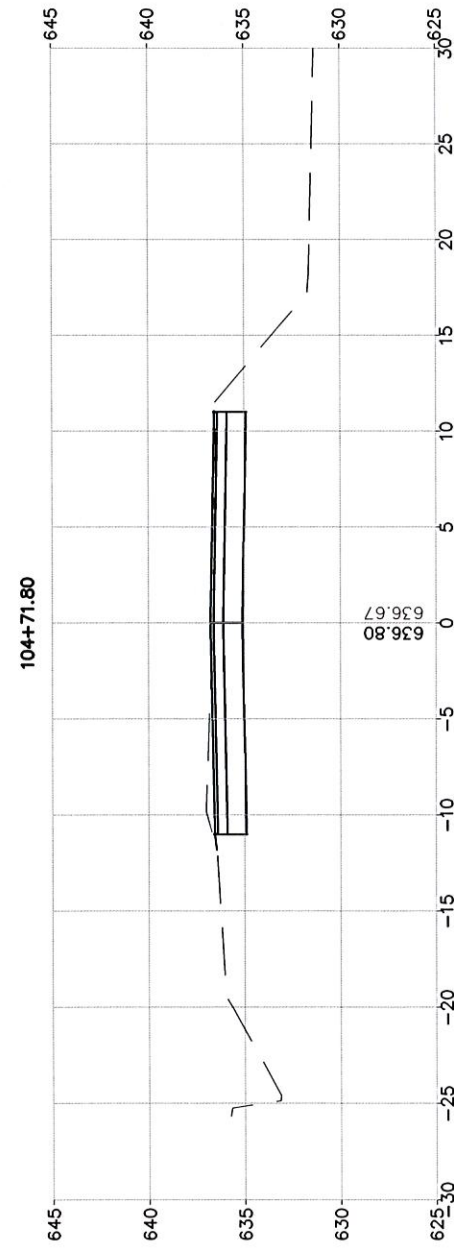
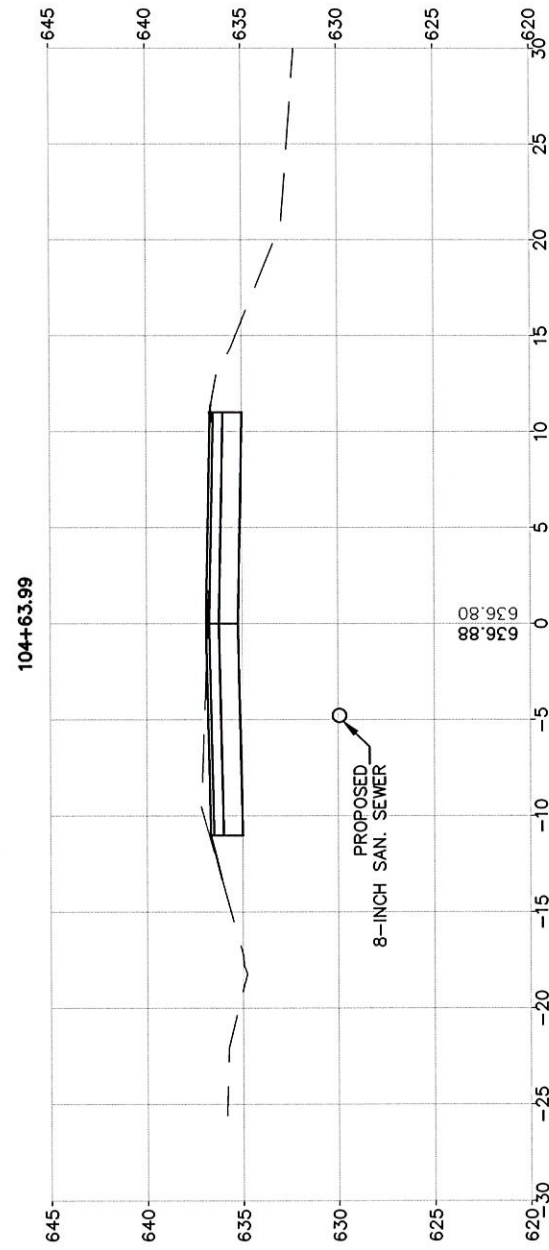
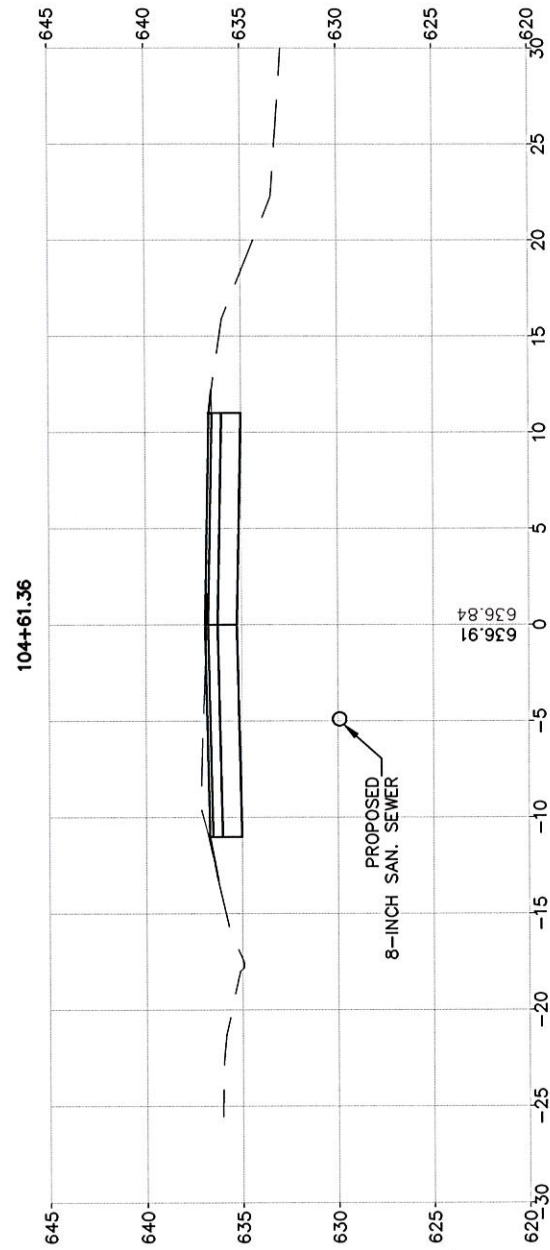
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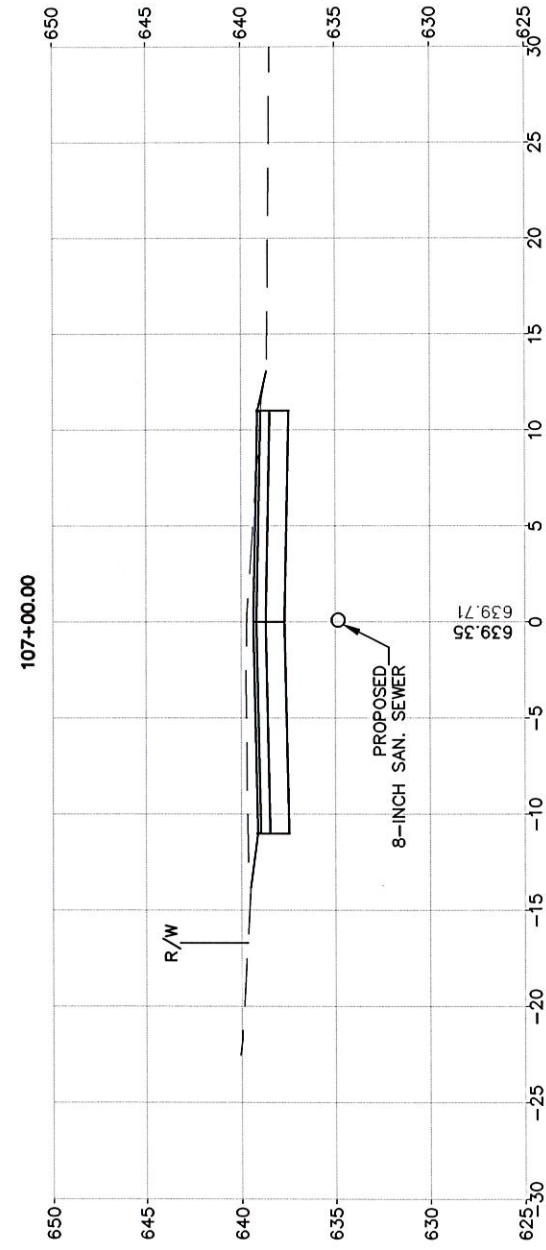
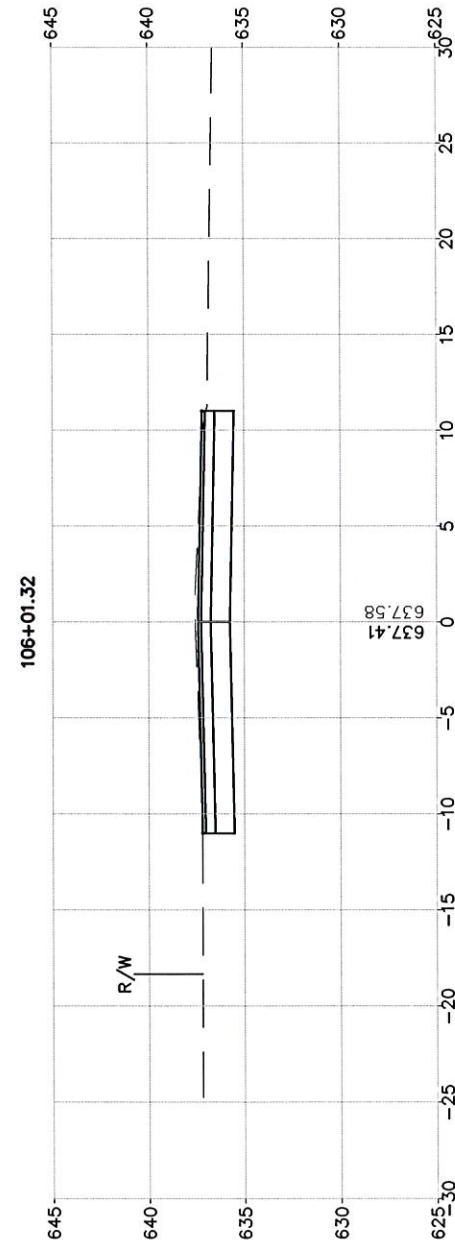
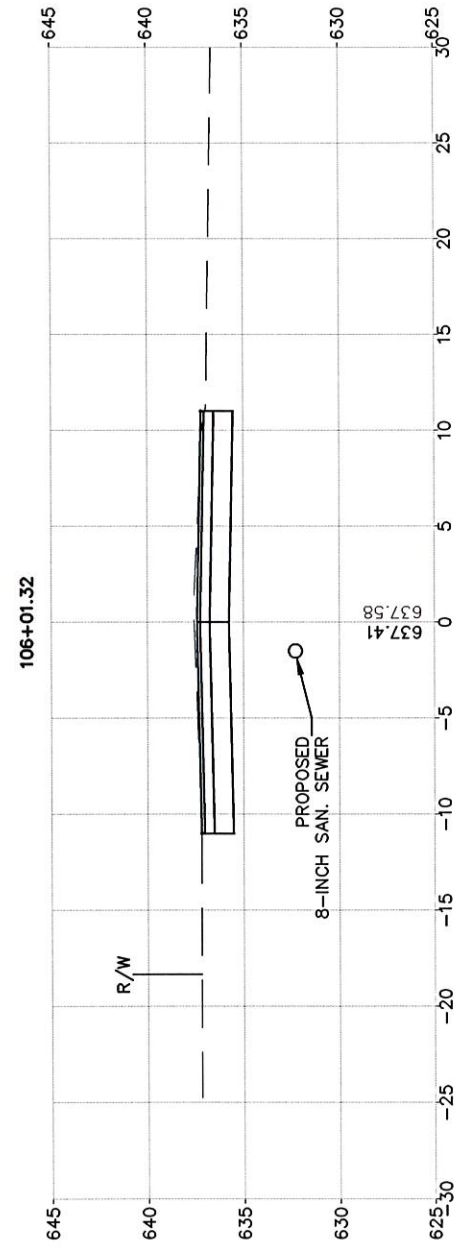
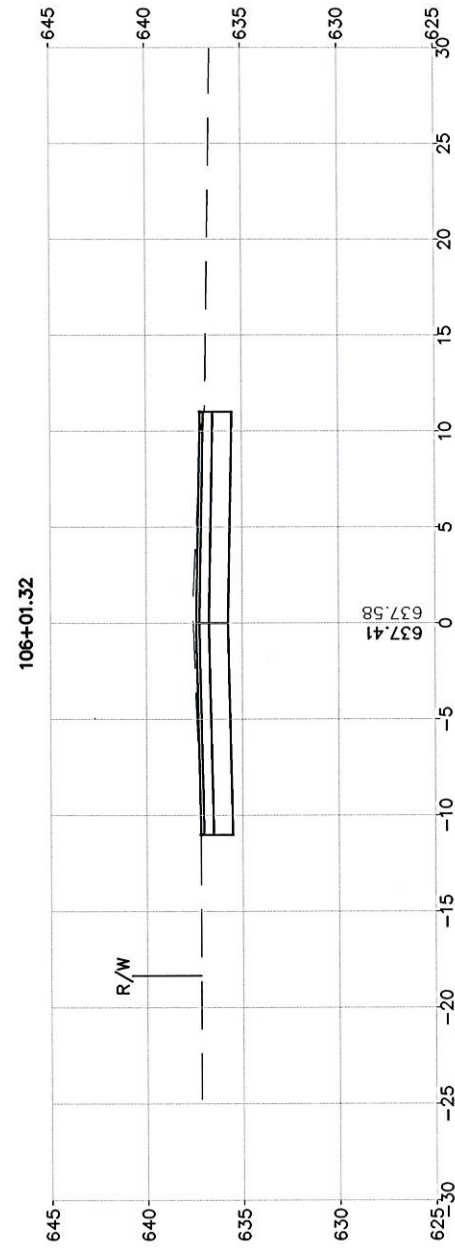
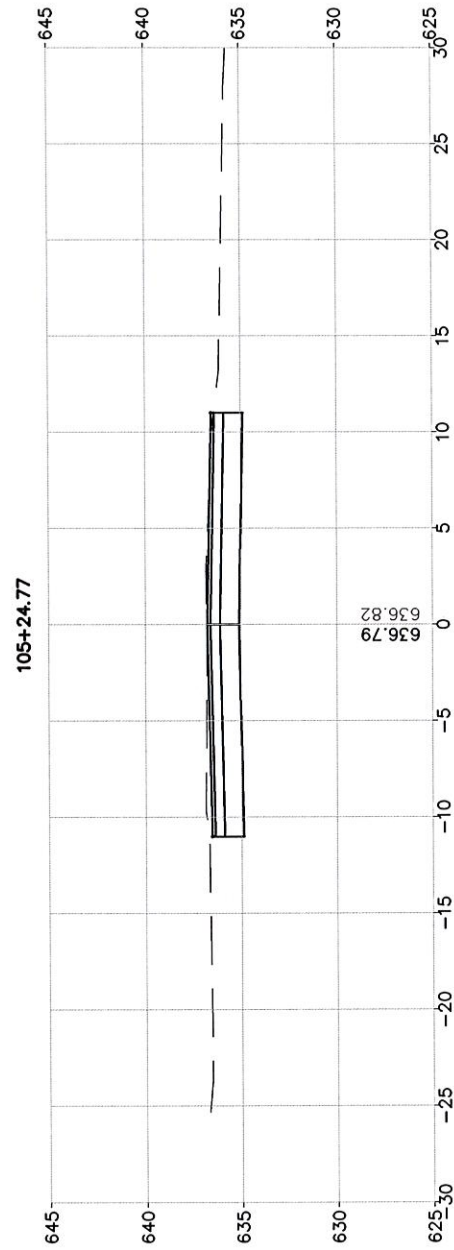


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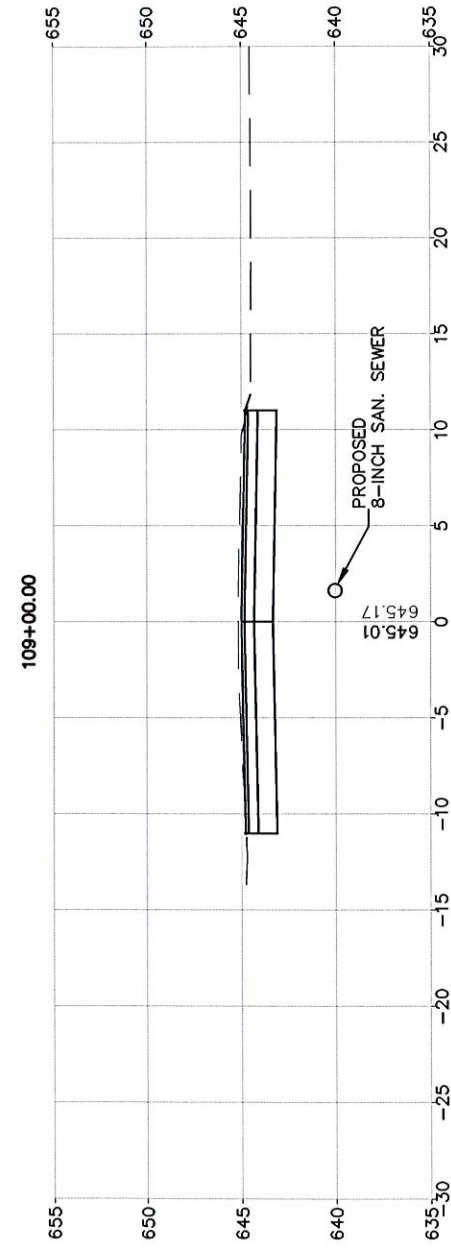
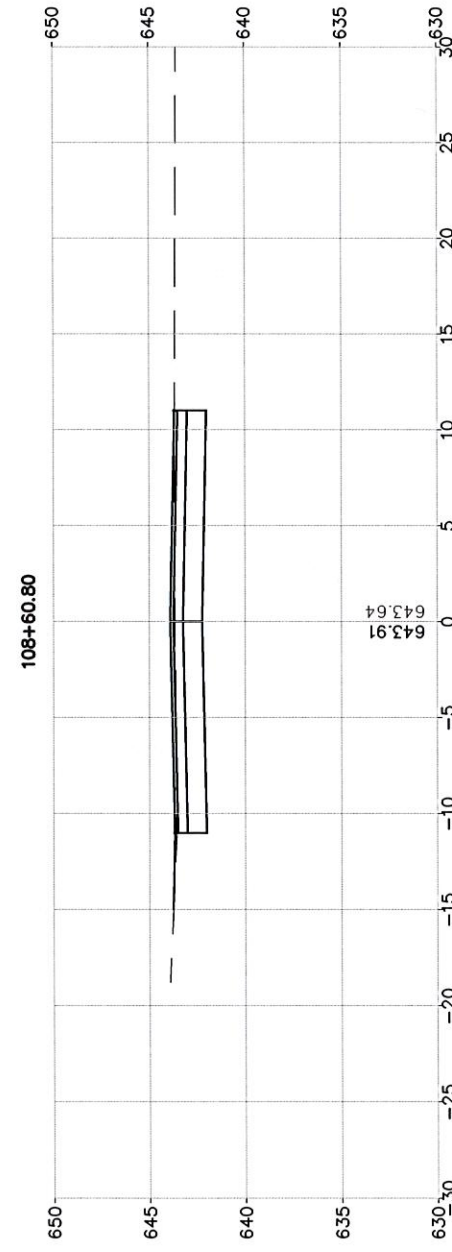
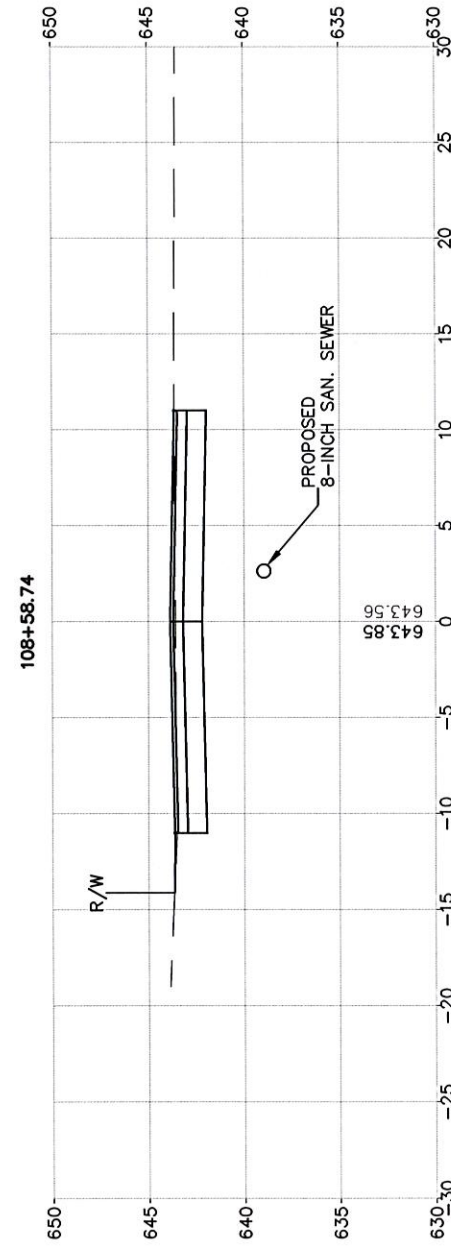
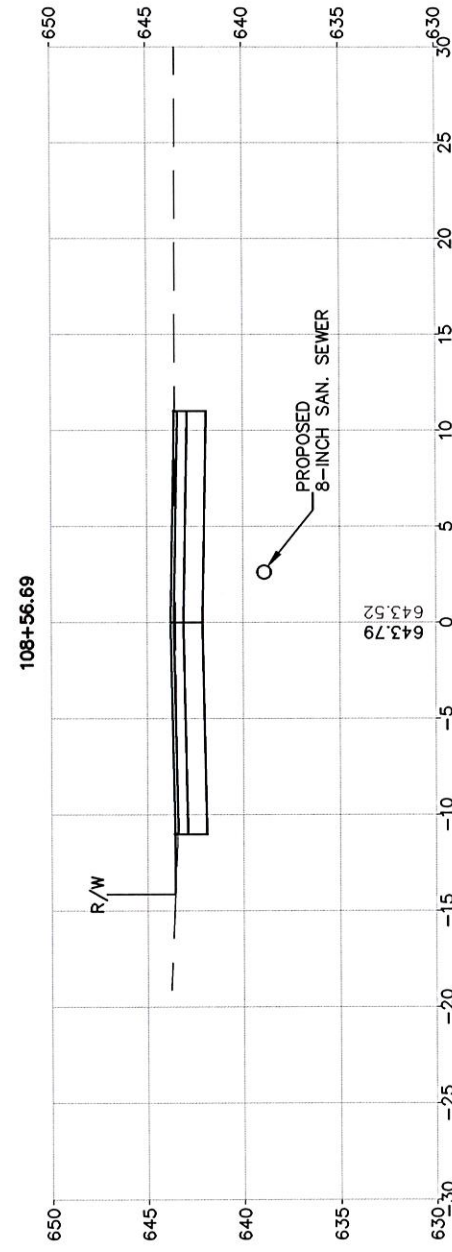
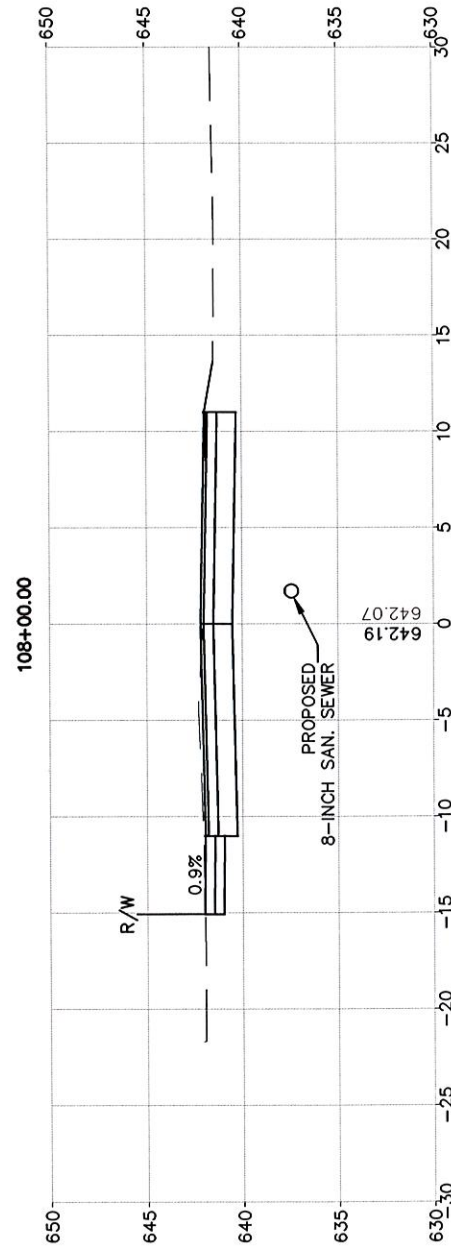
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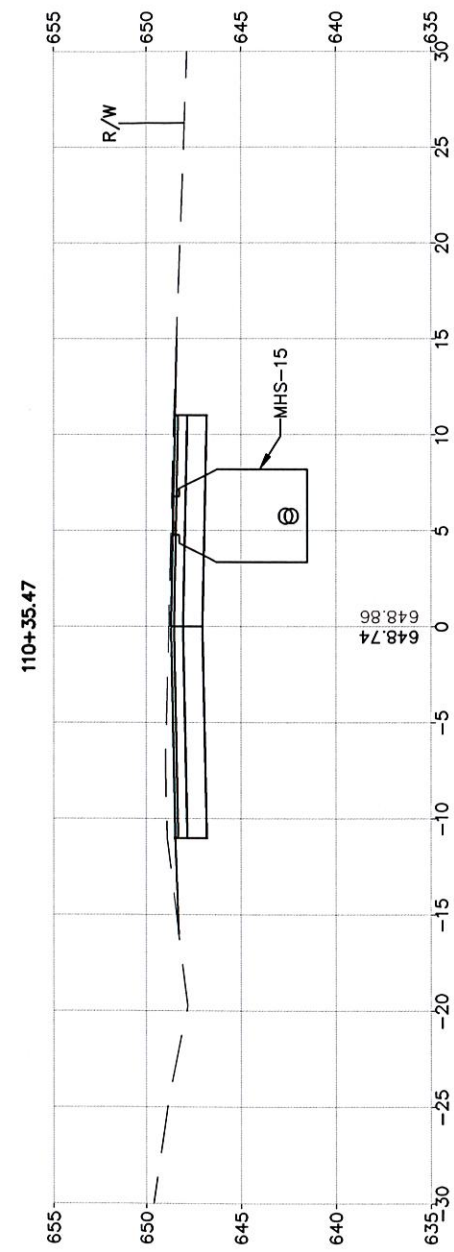
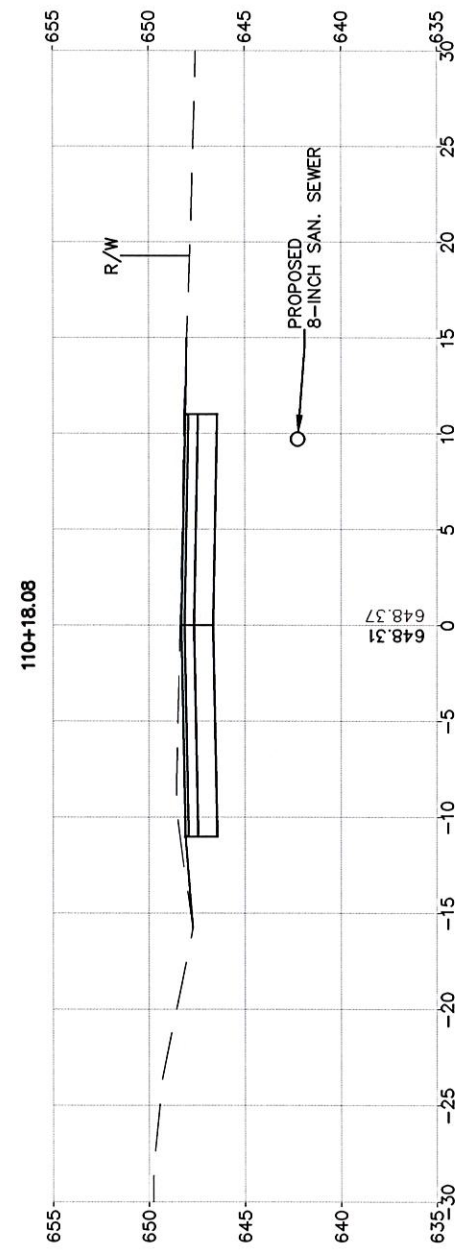
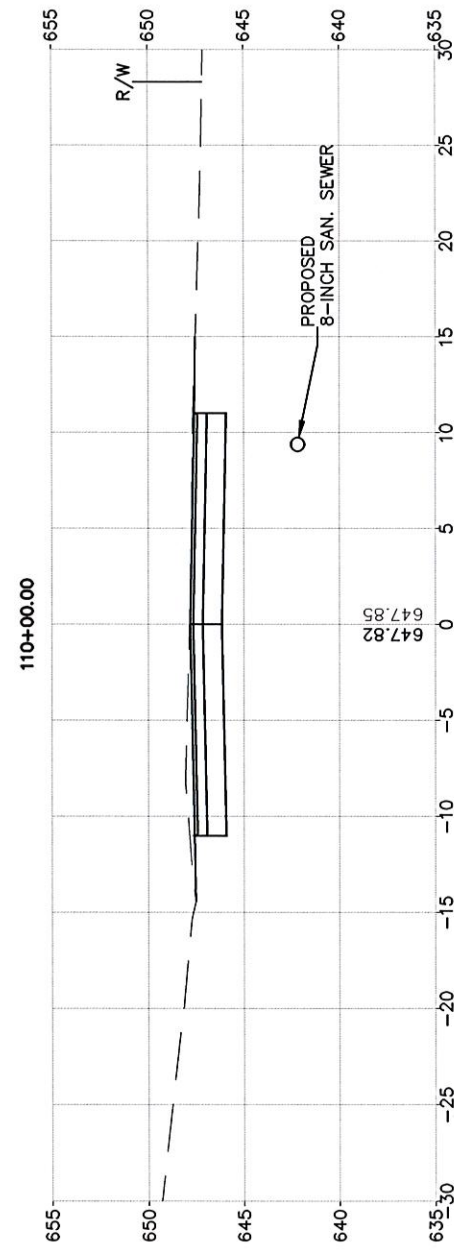
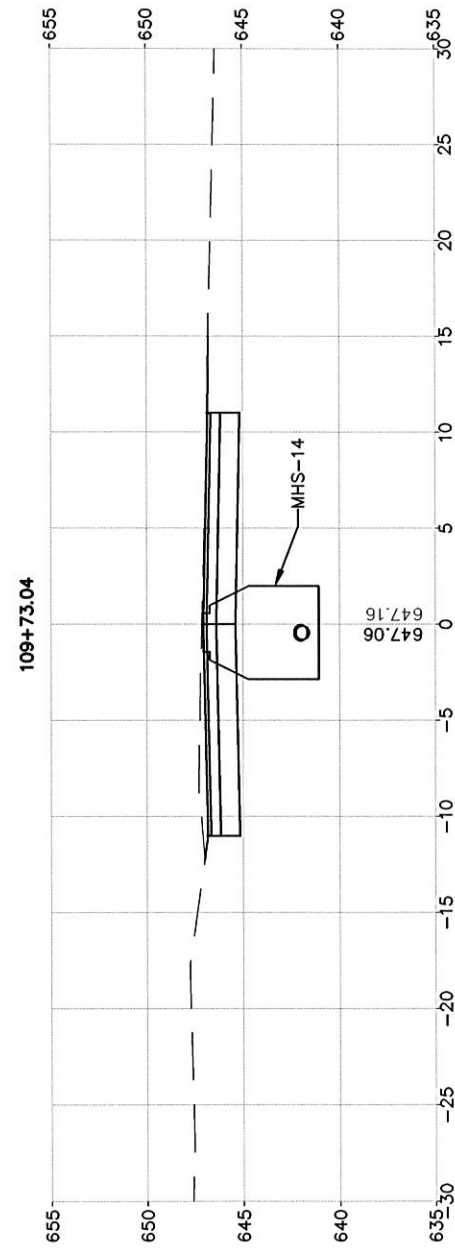
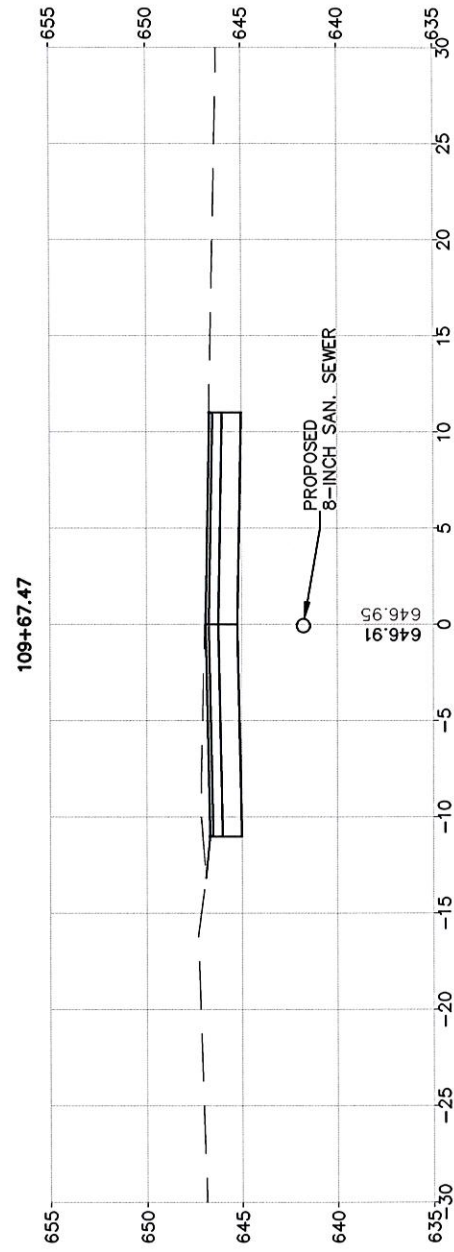
a7k for J6P



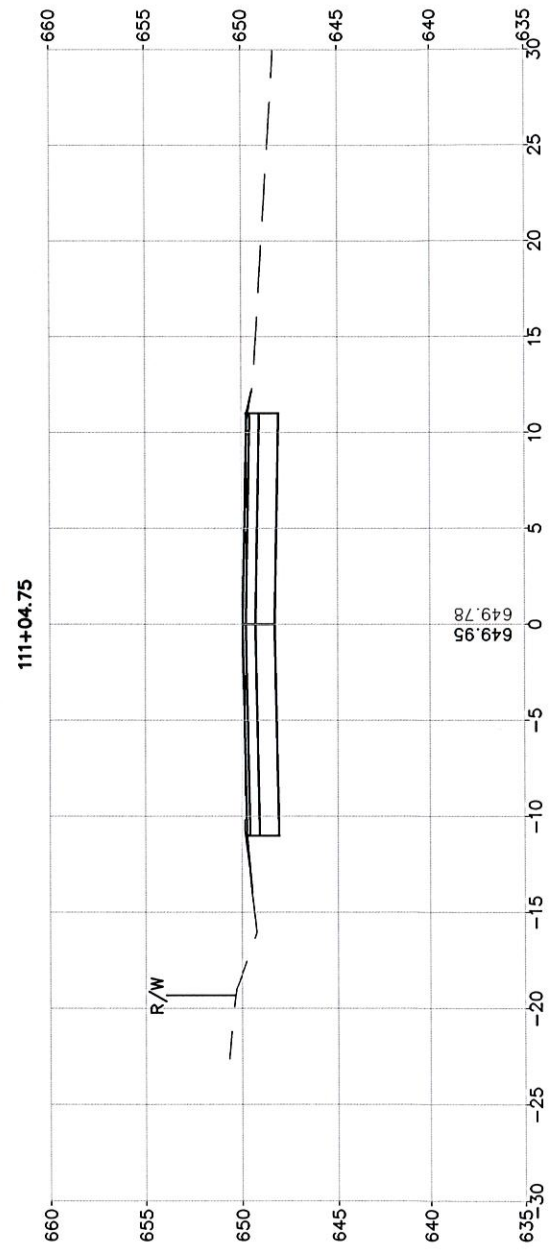
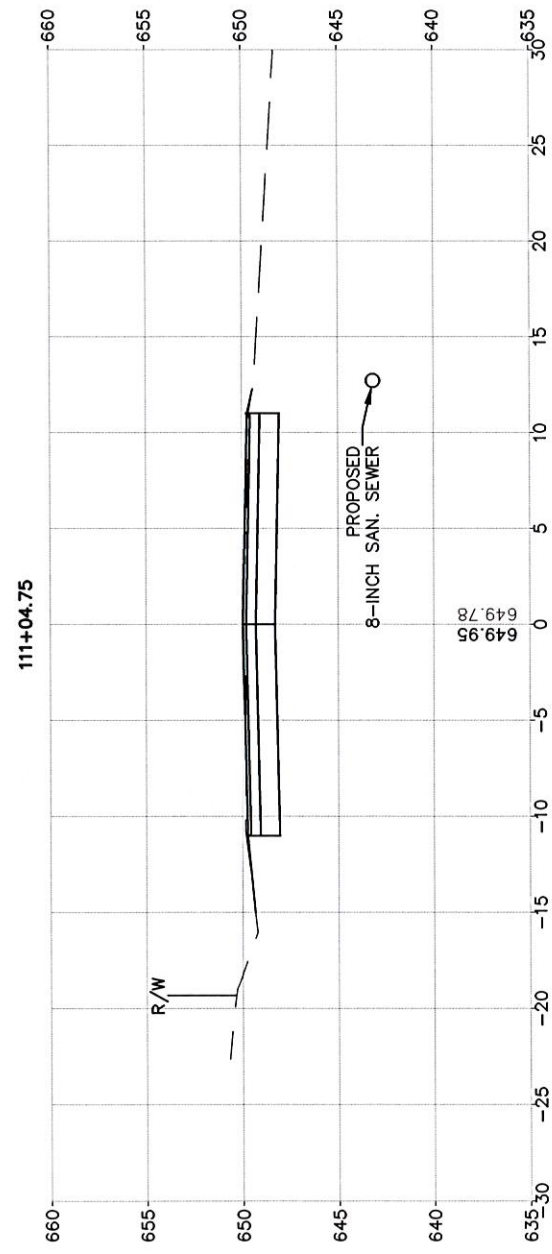
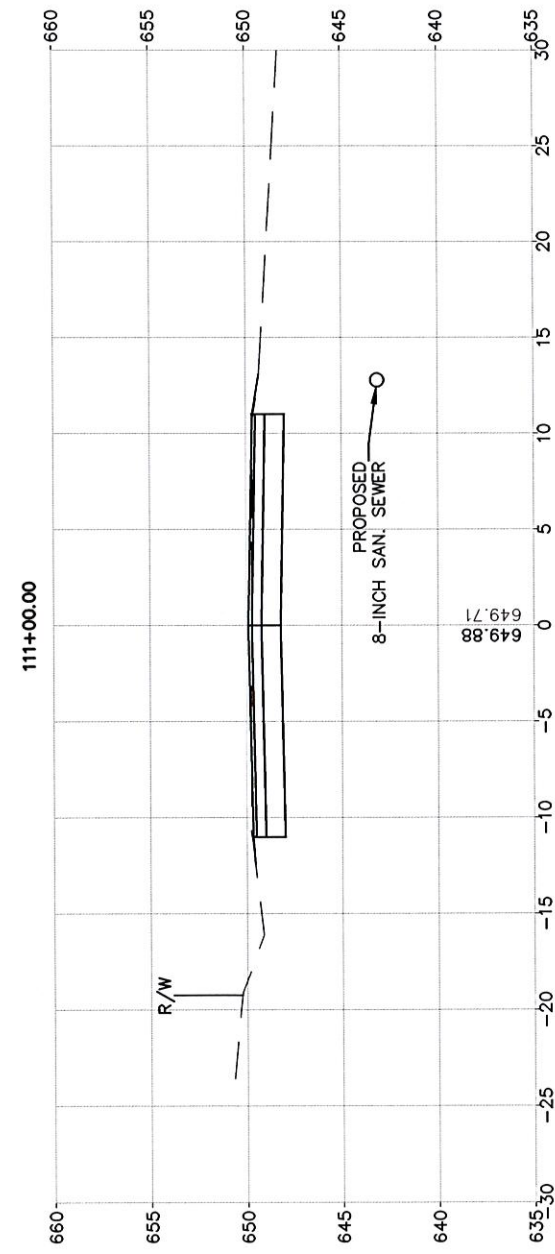
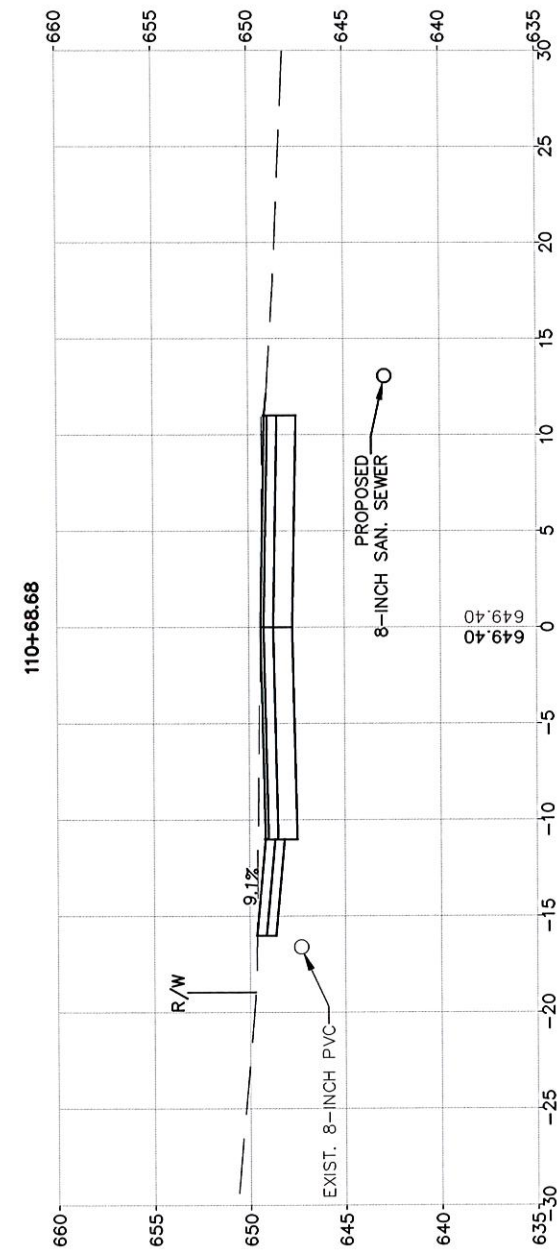
h7L
for TGP



NOTE:
SEE PAGE 5 FOR TYPICAL SECTION DETAILS

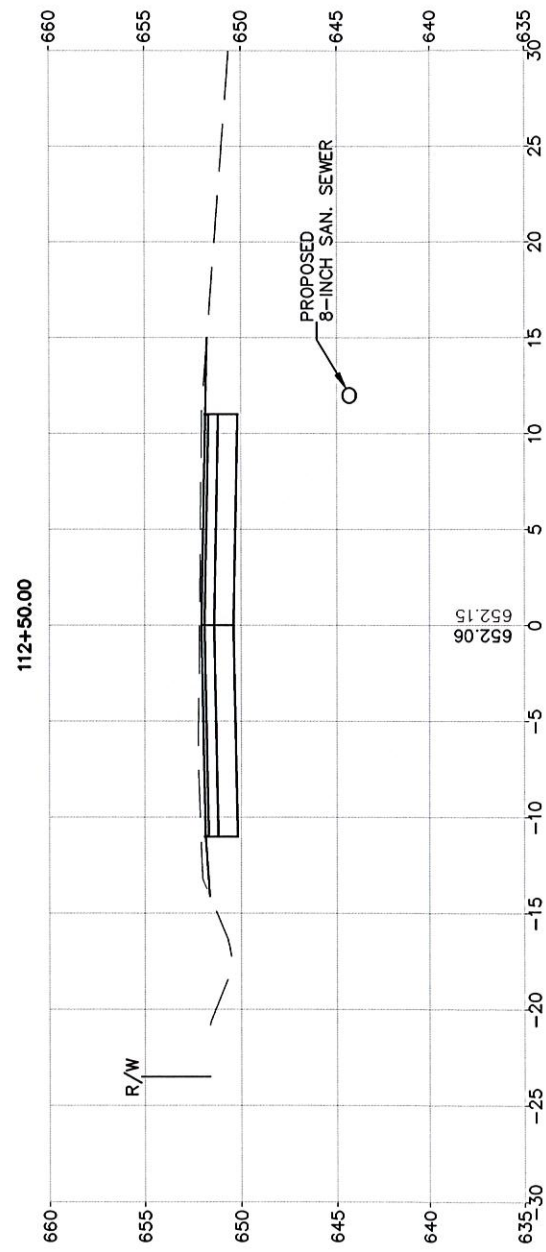
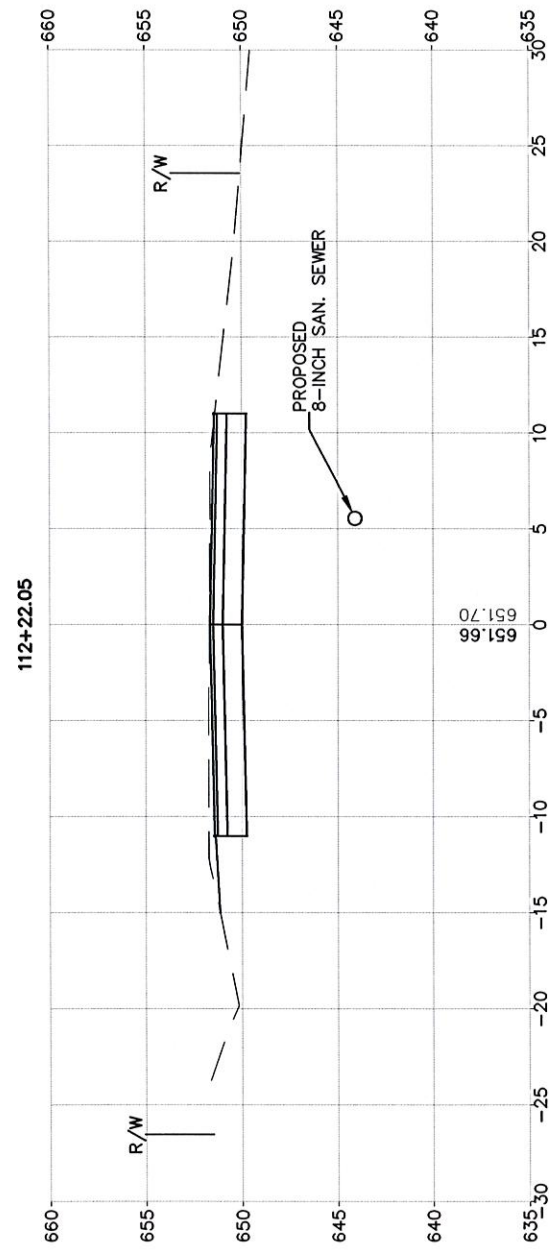
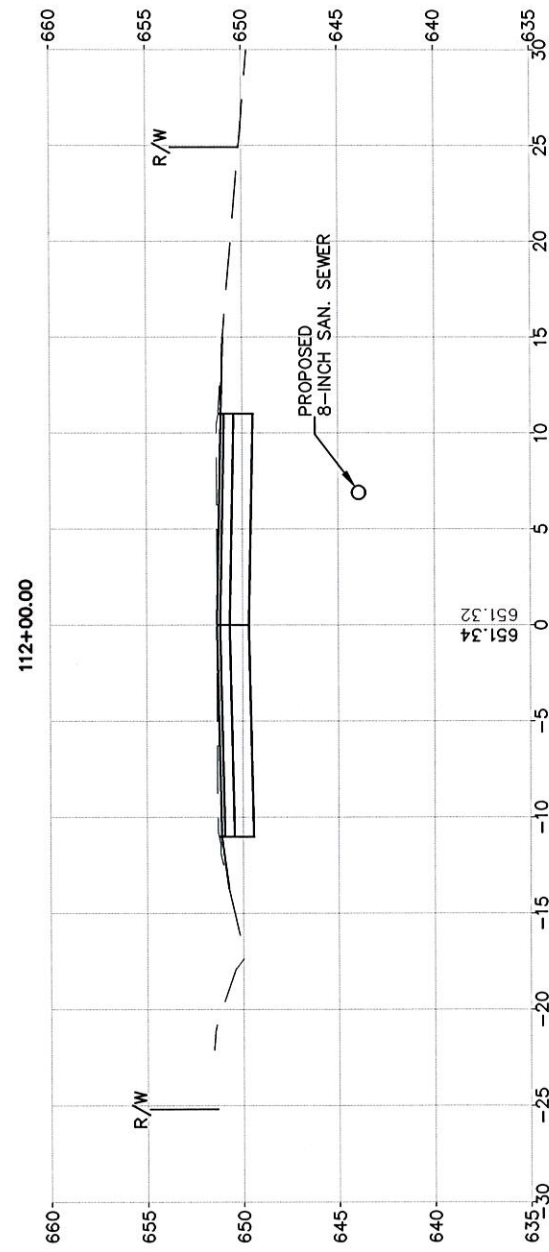
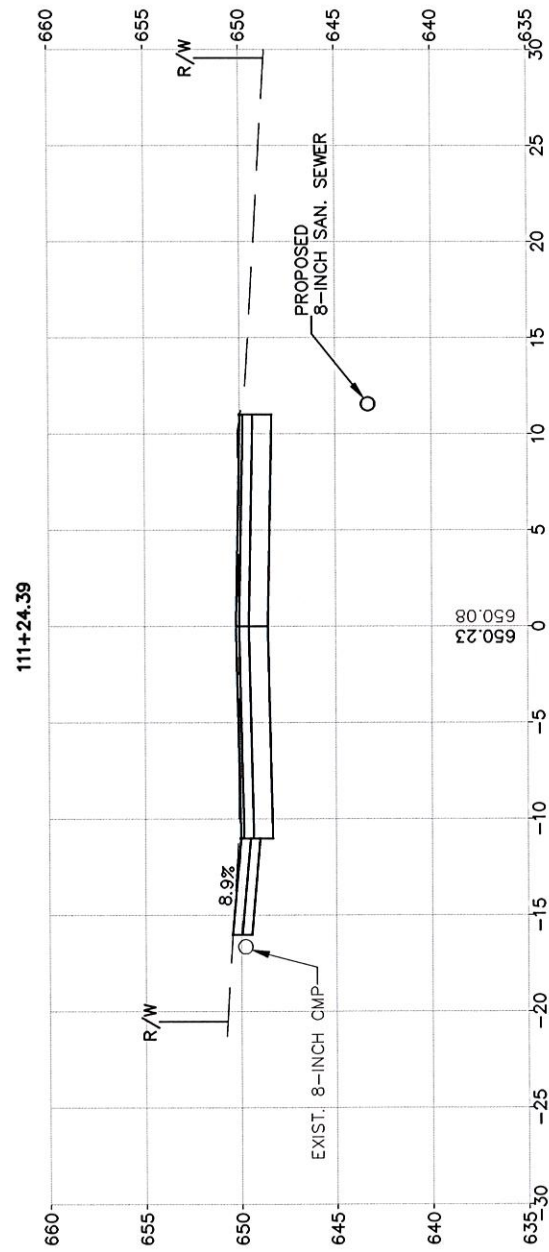


NOTE:
SEE PAGE 5 FOR TYPICAL SECTION DETAILS

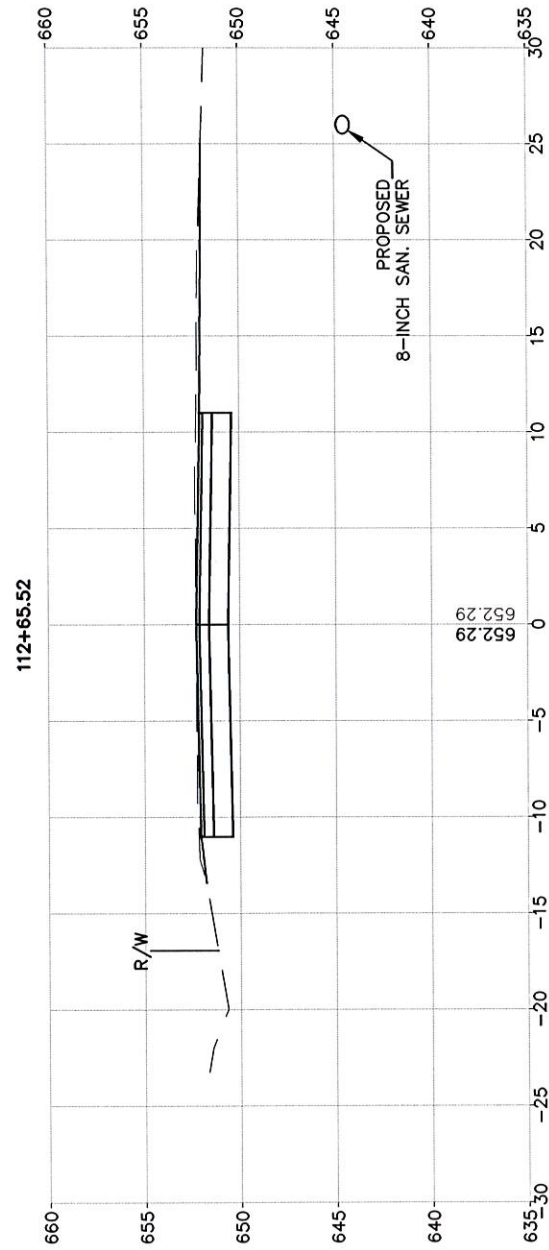


NOTE:
SEE PAGE 5 FOR TYPICAL SECTION DETAILS

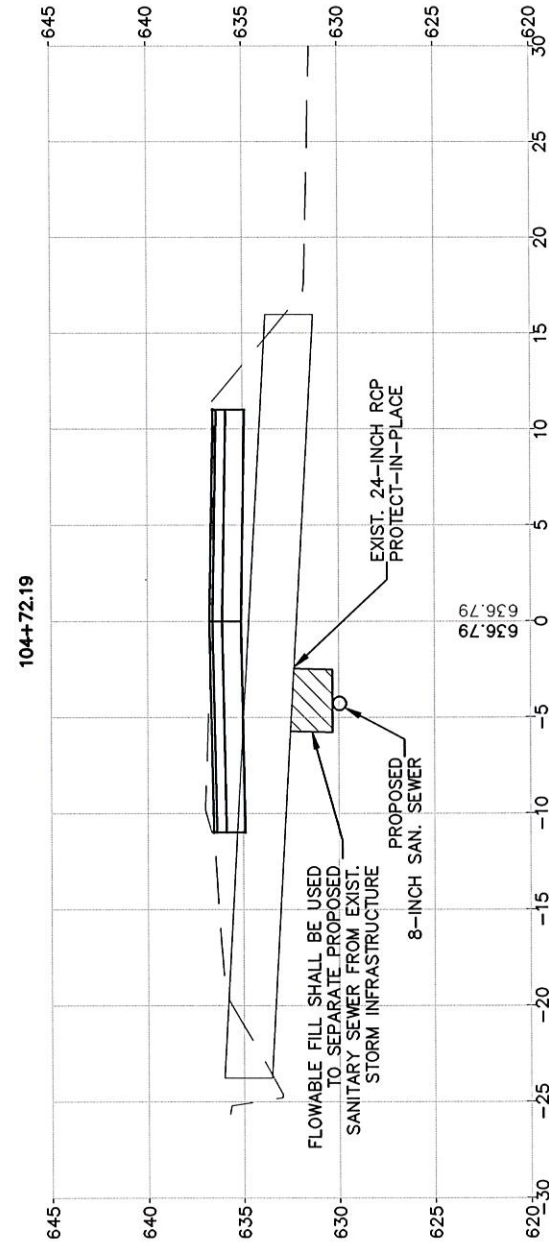
ATL for JGP



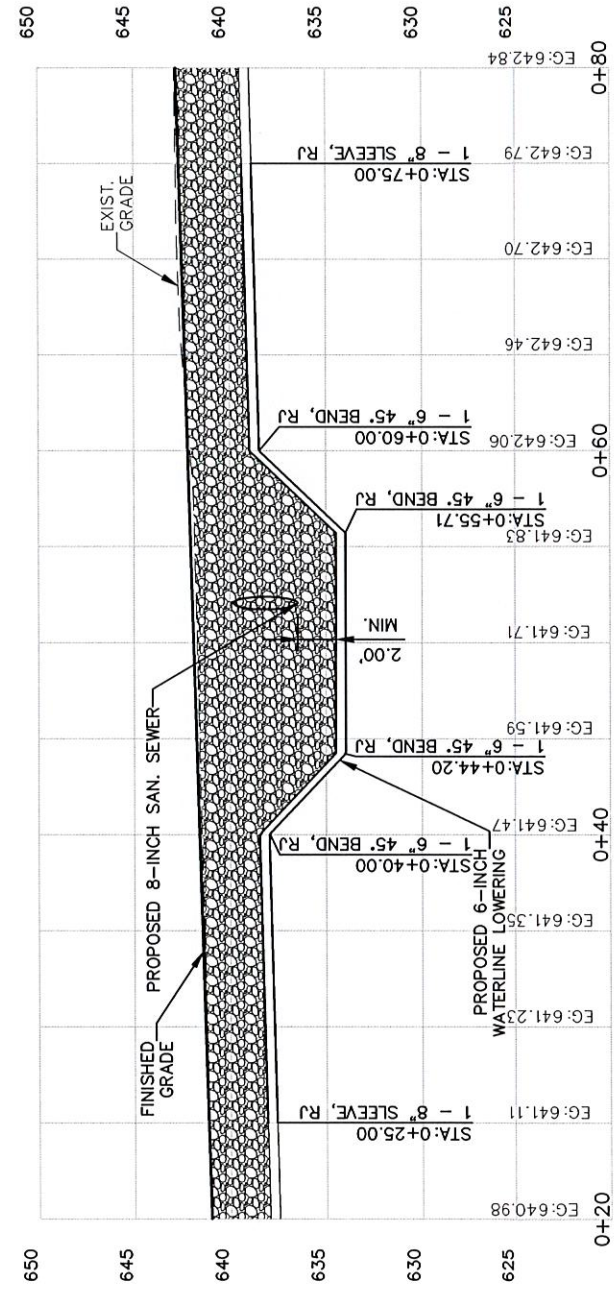
NOTE:
SEE PAGE 5 FOR TYPICAL SECTION DETAILS



NOTE:
SEE PAGE 5 FOR TYPICAL SECTION DETAILS



STORMWATER CROSSING



WATERLINE PROFILE

K/L to G.P.