

SOUTHSIDE SEWER IMPROVEMENTS ISSUED FOR CONSTRUCTION

**W 53RD ST AT S CHEROKEE ST
MUSKOGEE, OKLAHOMA 74401**

DECEMBER 8, 2024

**PREPARED FOR:
PORT MUSKOGEE
5201 THREE FORKS RD
FORT GIBSON, OKLAHOMA 74434**

PROPERTY INFORMATION

OWNER / APPLICANT
CITY OF MUSKOGEE,
301 SOUTH CHEROKEE STREET
MUSKOGEE, OKLAHOMA 74403

FINANCIER
PORT MUSKOGEE,
5201 THREE FORKS ROAD
FORT GIBSON, OKLAHOMA 74401

PROPERTY INFORMATION
PARCEL ID: 0000-22-14N-18E-1-093-07
ZONING: INDUSTRIAL
PARCEL ID: 000-23-14N-18E-2-09-03
ZONING: INDUSTRIAL

PROPOSED USE
EXISTING - RURAL PROPERTY
PROPOSED - SANITARY SEWER EXTENSION ALONG E 53RD ST AND
GULICK STREET TO SUPPORT FUTURE DEVELOPMENTS.

SEWER FLOW
SOUTHSIDE INDUSTRIAL DEVELOPMENT:
AVERAGE SEWER FLOW - 107.55 GPM

ADDITIONAL FUTURE EXPANSIONS:
AVERAGE SEWER FLOW - 245.05 GPM
NOTE - FLOWS CALCULATED USING INDUSTRY STANDARD
CONCEPTUAL FLOW PROJECTIONS

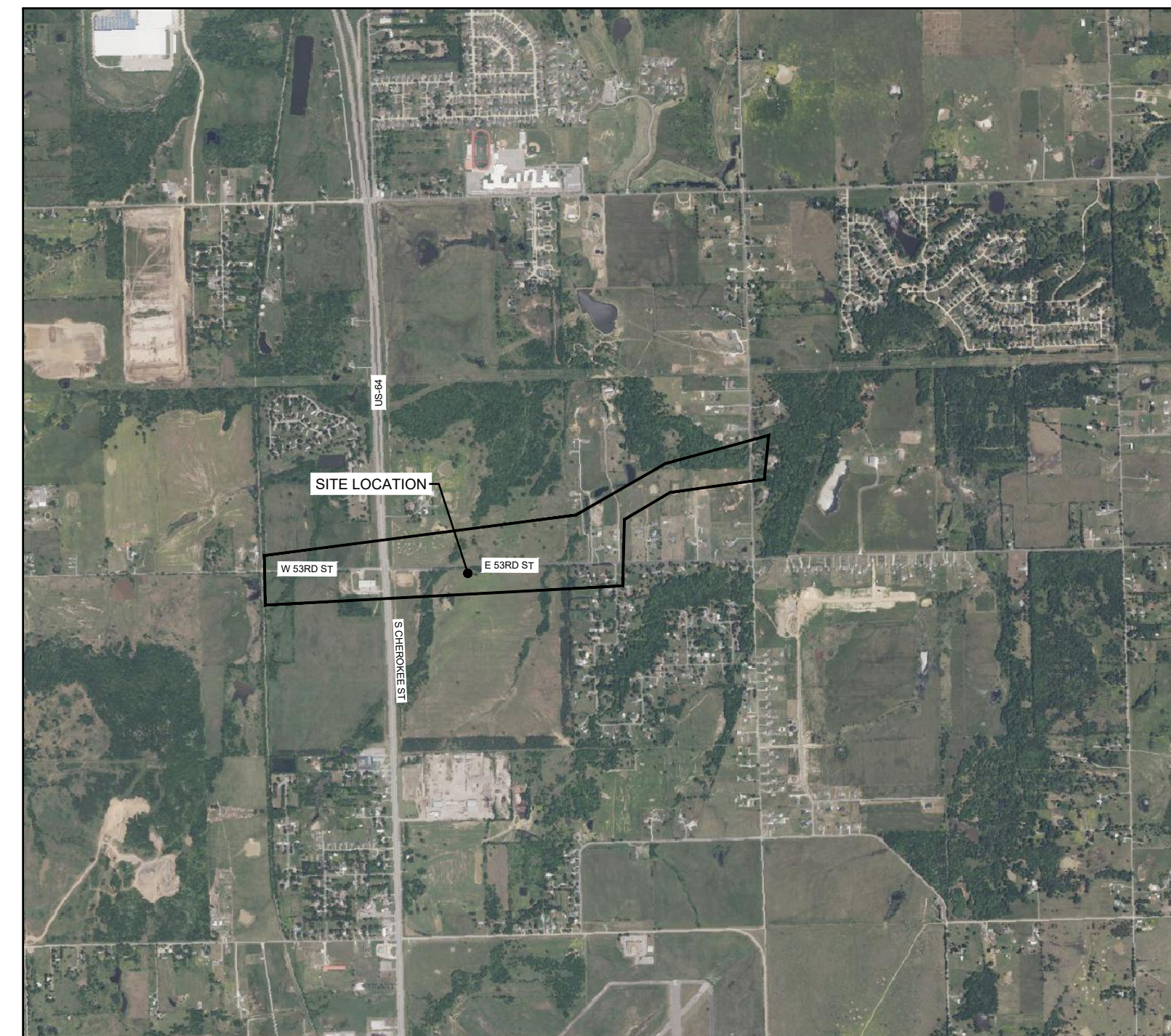
NOTES

THE REMOVAL, OR RELOCATION, OF ALL UTILITIES AND APPURTENANCE WILL BE AT THE RISK AND EXPENSE OF THE CONTRACTOR. THESE INCLUDE BUT ARE NOT LIMITED TO POWER, SEWER, WATER, TELEPHONE, LONG DISTANCE COMMUNICATION, AND CABLE TELEVISION.

ALL OKIE MARKINGS IN THE RIGHT OF WAY ARE REQUIRED TO BE ERADICATED AT THE COMPLETION OF THE PROJECT.

CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS ON SITE ACCESS AND WORK HOURS.

OKR10 PERMITTING REQUIRED AND TO BE COMPLETED BY CONTRACTOR.



VICINITY MAP
SCALE: 1" = 2000'

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CD103	DEMO AND EROSION & SEDIMENT CONTROL PLAN
CD104	DEMO AND EROSION & SEDIMENT CONTROL PLAN
CD105	DEMO AND EROSION & SEDIMENT CONTROL PLAN
CD106	DEMO AND EROSION & SEDIMENT CONTROL PLAN
CU101	UTILITY PLAN & PROFILE
CU102	UTILITY PLAN & PROFILE
CU103	UTILITY PLAN & PROFILE
CU104	UTILITY PLAN & PROFILE
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CU106	UTILITY PLAN & PROFILE
C-501	SITE DETAILS
C-502	SITE DETAILS
CE501	ESC DETAILS

CITY OF MUSKOGEE	
ISSUED FOR CONSTRUCTION	
DATE	SIGNATURE
11/5	<i>Mike Stewart</i>
APPROVAL SEAL	

STATE OF OKLAHOMA
Department of Environmental Quality
APPROVED
October 18 2024
Rocky W. Chen, P.E.
Water Quality Division
[Signature]
Basil Combs, P.E.
Construction Permitting Section

no.	date	by	ckd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION



Oklahoma License No. 30930
Issued: 02/28/2019
Expires: 02/28/2026
Seth M. Gilliam
December 8, 2024

**BURNS
MEDONNELL**

1317 EXECUTIVE BLVD, SUITE 300
CHESAPEAKE, VA 23320
757-548-2056
CA #421

date DEC. 8, 2024	detailed C. EVANCHO
designed C. EVANCHO	checked B. CHEWNING

**PORT
MUSKOGEE**
SUCCESS FLOWS FROM MUSKOGEE
ISSUED FOR CONSTRUCTION

MUSKOGEE, OKLAHOMA

**SOUTHSIDE
SEWER IMPROVEMENTS
COVER SHEET**

project 156823	contract ---
drawing C-001	rev. A
sheet 1 of 25 sheets	
file 156823-C-000-COVER.DWG	



Permit Number: SL000051240695-R
Date Received: October 04 2024

GENERAL

- 1. IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT...
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY...
3. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT...

UTILITIES

- 1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY...
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK...
3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.

UTILITIES (CONTINUED)

- 7. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN...
8. PVC SDR 26 SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF 12454 AS DEFINED BY ASTM D1784...
9. DUCTILE IRON PIPE/ PIPE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A748, ASTM A536, ASTM D2857, AWWA C-151, AND AWWA E-151...

SITE PLAN

- 1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. ANY PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR AT NO ADDITIONAL COST TO OWNER.

DEMOLITION

- 1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
2. CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

EROSION CONTROL

- 1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, MAINTAIN SWPPP FIELD INSPECTION REPORT LOGS IN ACCORDANCE WITH OKR10 REQUIREMENTS...

EROSION CONTROL (CONTINUED)

- 11. THE STORAGE OF ALL HAZARDOUS MATERIALS, FERTILIZERS, CHEMICALS, CEMENTS, SOLVENTS, PAINTS OR OTHER POTENTIAL WATER POLLUTANTS SHALL BE LOCATED IN AN ISOLATED, LEVEL AREA, FAR FROM CREEK/WETLAND AREAS...
12. ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED FOR WORKERS ON THE SITE IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS...
13. CONTRACTOR SHALL PERFORM DAILY WALK THROUGH OF THE PROJECT SITE TO PICK UP LOOSE DEBRIS, LITTER OR TRASH AND DISPOSE OF ALL ITEMS IN THE WASTE RECEPTACLES PROVIDED.

EXISTING CONDITIONS INFORMATION

- 1. BASE PLAN: THE EXISTING CONDITIONS INFORMATION USED FOR THIS PROJECT WAS OBTAINED BY BLEW & ASSOCIATES, P.A.
2. ALL UNDERGROUND UTILITIES WERE NOT FLAGGED BY "OKIE" AND MAY NOT BE SHOWN. CALL "OKIE" (1-800-522-6543) BEFORE DIGGING.
3. ALL ITEMS NOTED AS "DATR" ARE FROM FIELD OBSERVATIONS.

CONCRETE

- 1. ALL CONCRETE SHALL BE AIR ENTRAINED (4,000 PSI) IN ACCORDANCE WITH MOST RECENT VERSION OF DEPARTMENT OF TRANSPORTATION ROADS AND BRIDGE SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.

DRAINAGE

- 1. TEMPORARY DRAINAGE DURING CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR TO RELIEVE AREAS THAT MAY CAUSE DAMAGE TO ROADWAYS AS DIRECTED BY THE ENGINEER OR THE CITY OF MUSKOGEE.
2. ALL CONCRETE STORM PIPE JOINTS SHALL BE COMPLETELY WRAPPED WITH TWO-FOOT WIDE APPROVED FILTER FABRIC CENTERED ABOUT THE JOINT AND SECURED IN PLACE PRIOR TO BACKFILLING.

TRAFFIC CONTROL

- 1. TEMPORARY PAINT STRIPES SHALL BE IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CURRENT ODOT SPECIFICATIONS.
2. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DETAILED TEMPORARY TRAFFIC CONTROL PLAN WITH THE CONTRACTOR'S PERMIT APPLICATION TO WORK IN THE RIGHT-OF-WAY...

OVERHEAD POWER SAFETY NOTES:

- 1. SUBCONTRACTOR SHALL VERIFY HEIGHT AND LOCATION OF ALL EXISTING OVERHEAD POWER LINES PRIOR TO CONSTRUCTION.
2. SUBCONTRACTOR SHALL WORK AT A SAFE DISTANCE FROM ALL POWER LINES THROUGHOUT THE DURATION OF CONSTRUCTION...
3. SUBCONTRACTOR SHALL MARK LOCATION OF ALL OVERHEAD POWER LINES WITH ADEQUATE, CONTRACTOR-APPROVED SIGNAGE...
4. ALL DUMP TRUCK OPERATORS SHALL BE RESPONSIBLE FOR VERIFYING THAT THE DUMP BUCKETS HAVE BEEN COMPLETELY LOWERED BEFORE PUTTING THE TRUCK IN GEAR.

Table with 5 columns: no., date, by, ckd, description. Includes entries for ISSUED FOR CONSTRUCTION on 10/03/24 and 12/08/24.



1317 EXECUTIVE BLVD, SUITE 300
CHESAPEAKE, VA 23320
757-549-2056
CA #421

Table with 2 columns: date, detailed, designed, checked. Includes dates DEC 8, 2024 and names C. EVANCHO, B. CHEWNING.



MUSKOGEE, OKLAHOMA

SOUTHSIDE
SEWER IMPROVEMENTS
GENERAL NOTES

Table with 2 columns: project, contract, drawing, rev. Includes drawing number C-002 and revision A.

sheet 2 of 25 sheets
file 156823-C-001-GENERAL NOTES.DWG

LEGEND

ABBREVIATIONS

EXISTING	PROPOSED	
		GRAVEL
		CONCRETE PAVEMENT
		BOUNDARY LINE
		BOUNDARY LINE (OTHER)
		SECTION LINE
		EASEMENT
		CENTERLINE
		RIGHT-OF-WAY
		BARBED WIRE CHAIN LINK FENCE
		STRAND WIRE FENCE
		SPOT ELEVATION
		CONTOUR
		WATER LINE DOMESTIC
		WATER VALVE
		FIRE HYDRANT
		WATER METER
		YARD HYDRANT
		UNDERGROUND FIBER OPTIC
		POWER POLE
		ELECTRIC CABINET
		ELECTRIC METER
		OVERHEAD POWER LINE
		UNDERGROUND TELEPHONE
		TELEPHONE PEDESTAL
		TELEPHONE CABINET
		FIBER OPTIC VAULT
		GAS LINE
		GAS MONITORING STATION
		GAS METER
		SANITARY SEWER
		SANITARY MANHOLE
		SANITARY UNDERGROUND TANK ACCESS LID
		STORM SEWER LINE
		UNKNOWN UTILITY
		UTILITY VAULT
		FOUND MONUMENT
		SET MONUMENT
		COMPUTED POINT
		SET TEMPORARY BENCHMARK
		STORM DRAIN OUTLET PROTECTION (TEMPORARY FIBER LOG)
		STORM DRAIN INLET PROTECTION (TEMPORARY FIBER LOG)
		REMOVE GRAVEL OR PAVEMENT
		CLEAR BRUSH/ VEGETATION
		CONSTRUCTION STAGING AND LAYDOWN AREA
		JACK AND BORE BORING/ RECEIVING PIT
		REMOVE LINEAR FEATURE
		SILT FENCE
		PERMANENT SEEDING
		LIMITS OF DISTURBANCE
		TEMPORARY CONSTRUCTION EASEMENT
		TEMPORARY BARRIER PROTECTION

ABAND	ABANDON
CMP	CORRUGATED METAL PIPE
CONC	CONC
C.O.R	CORNER
CPP	CONCRETE PRESSURE PIPE
CR	CROWN OF ROAD
DATR	DRAWN ACCORDING TO RECORD
EA	EDGE OF ASPHALT PAVEMENT
EC	EDGE OF CONCRETE
EG	EDGE OF GRAVEL
FT	FOOT
IN	INCH
LLC	LIMITED LIABILITY COMMUNITY
(M)	MEASURED CALCULATED DISTANCE
MAX	MAXIMUM
MIN	MINIMUM
N/F	NOW OR FORMERLY
NG	NATURAL GROUND
NGS	NATIONAL GEODETIC SURVEY
OCCR	OKLAHOMA CERTIFIED CORNER RECORD
ODOT	OKLAHOMA DEPARTMENT OF TRANSPORTATION
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SEC	SECTION
W/	WITH

no.	date	by	ckd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
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Scale For Microfilming
Millimeters
Inches



Oklahoma License No. 30930
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December 8, 2024

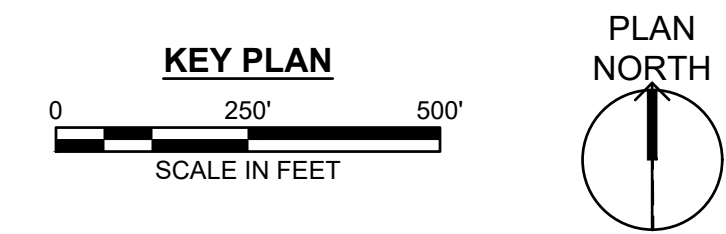
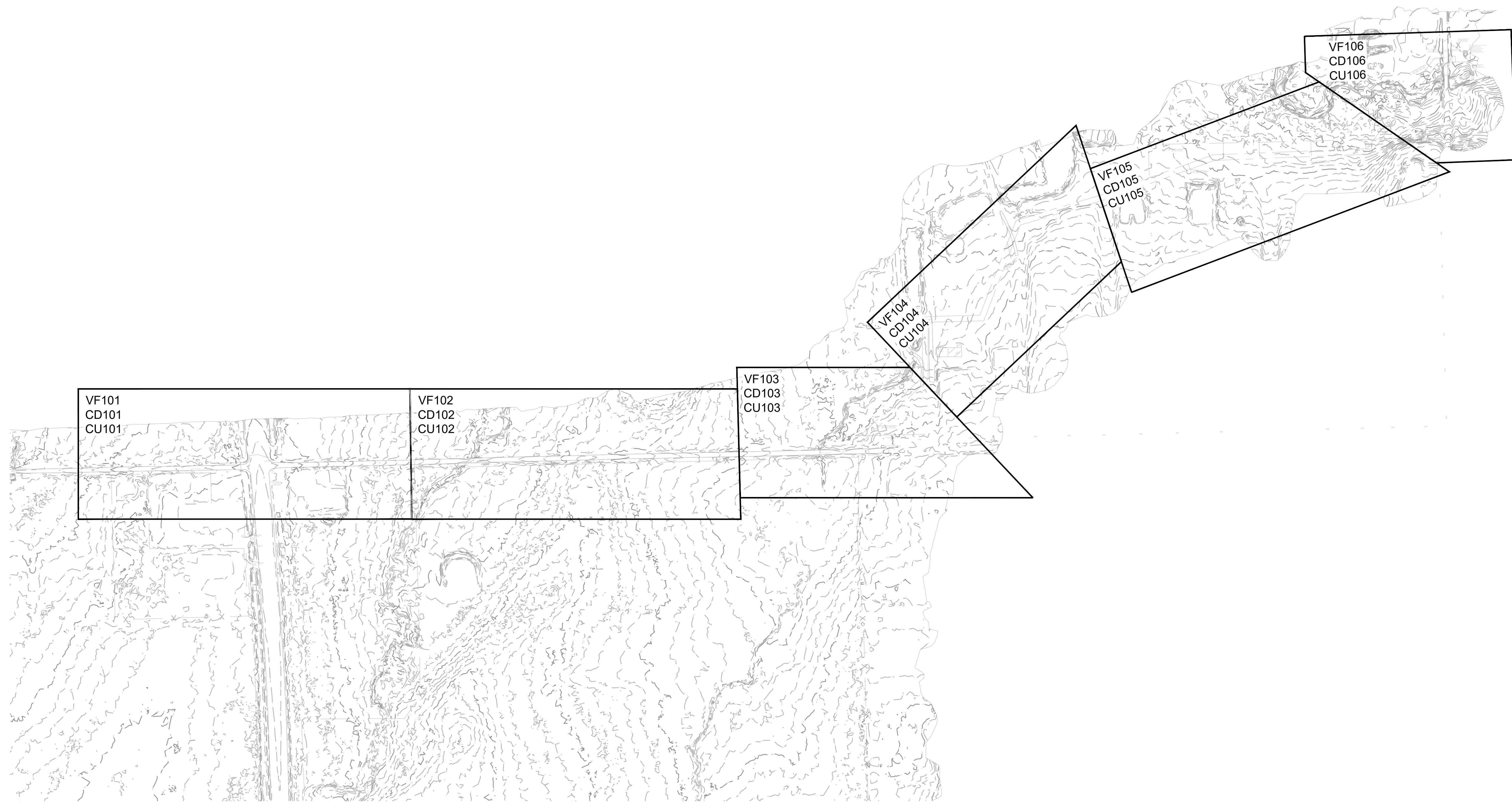
BURNS MEDONNELL
1317 EXECUTIVE BLVD, SUITE 300
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757-548-2056
CA #421

date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING

PORT MUSKOGEE
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MUSKOGEE, OKLAHOMA

project 156823		contract ---	
drawing C-003		rev. A	
sheet 3	of 25	sheets	
file 156823-C-001-GENERAL NOTES.DWG			

Scale For Microfinishing
Millimeters
Scale For Macrofinishing
Inches



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0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
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**SOUTHSIDE
SEWER IMPROVEMENTS
KEY PLAN**

project	156823	contract	---
drawing	C-004	rev.	A
sheet	4	of	25 sheets
file	156823-C003-KEY PLAN.DWG		

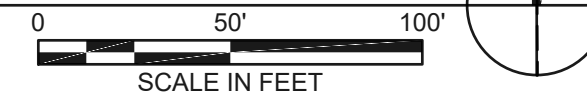


MATCH LINE STA 14+00 SHEET VF 102

Scale For Microfilming
Millimeters
Inches

EXISTING CONDITIONS

SCALE: 1" = 50'

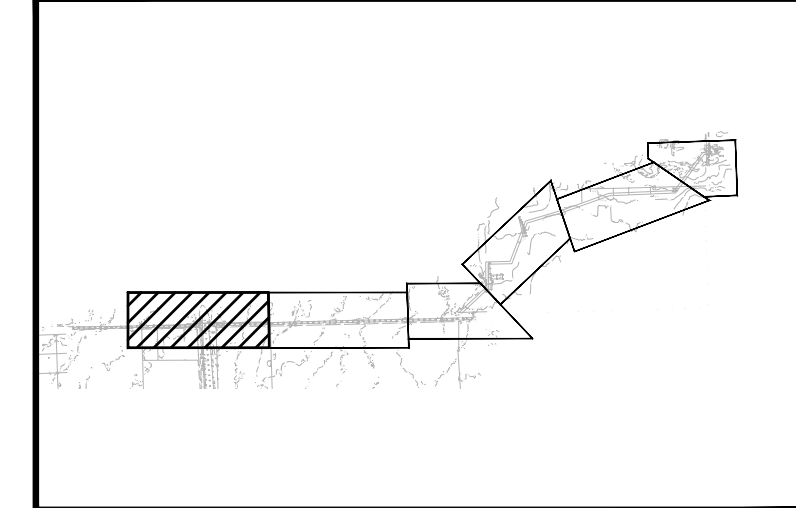


GENERAL NOTES

1. SANITARY SEWER ALIGNMENT SHOWN FOR REFERENCE ONLY.
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KEY PLAN
NOT TO SCALE

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date	DEC. 8, 2024	detailed	C. EVANCHO
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**PORT
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**SOUTHSIDE
SEWER IMPROVEMENTS
EXISTING CONDITIONS**

project	156823	contract	---
drawing	VF101	rev.	A
sheet	5	of	25 sheets
file 156823-VF101-EXISTING CONDITIONS.DWG			



EXISTING CONDITIONS

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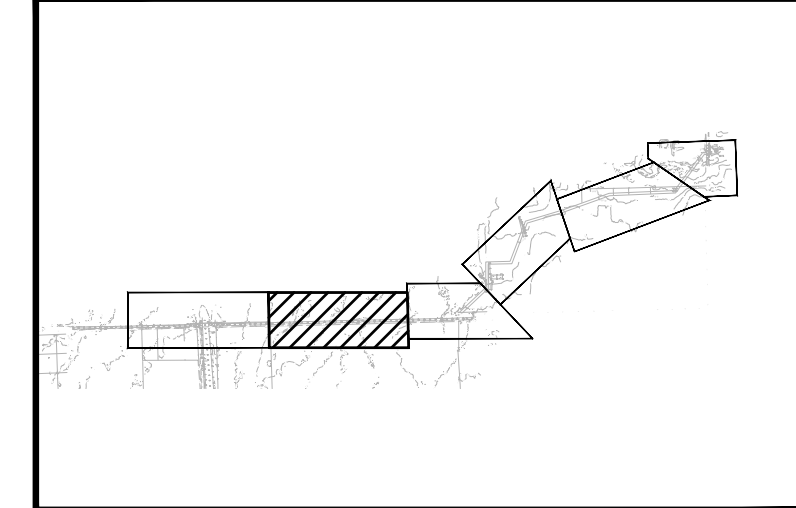
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PORT MUSKOGEE
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 MUSKOGEE, OKLAHOMA

SOUTHSIDE SEWER IMPROVEMENTS EXISTING CONDITIONS	
project	contract
156823	---
drawing	rev.
VF102 - A	
sheet 6	of 25 sheets
file 156823-VF101-EXISTING CONDITIONS.DWG	



EXISTING CONDITIONS

SCALE: 1" = 50'



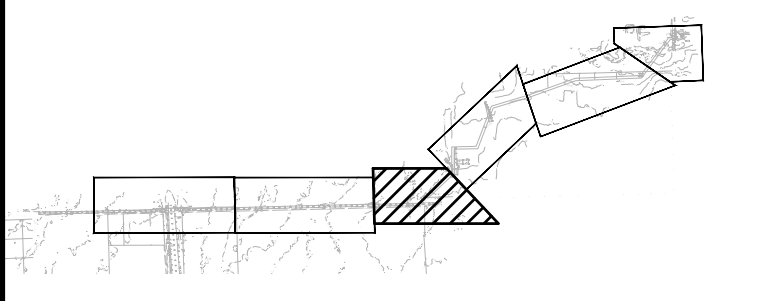
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KEY PLAN
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**SOUTHSIDE
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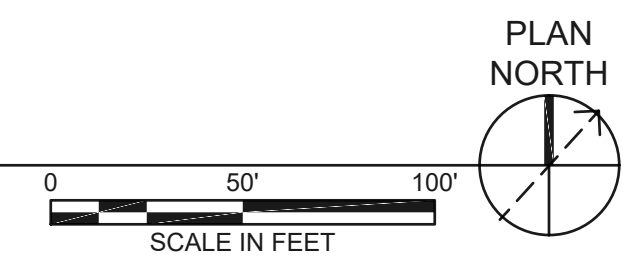
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drawing	VF103	rev.	A

sheet 7 of 25 sheets
 file 156823-VF101-EXISTING CONDITIONS.DWG



EXISTING CONDITIONS

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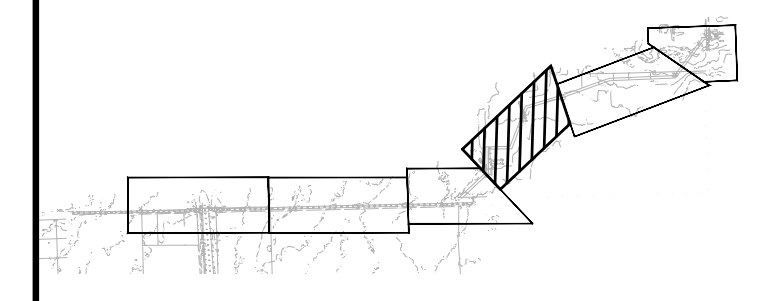
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**SOUTHSIDE
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 EXISTING CONDITIONS**

project	156823	contract	---
drawing	VF104	rev.	A

sheet 8 of 25 sheets
 file 156823-VF101-EXISTING CONDITIONS.DWG



EXISTING CONDITIONS

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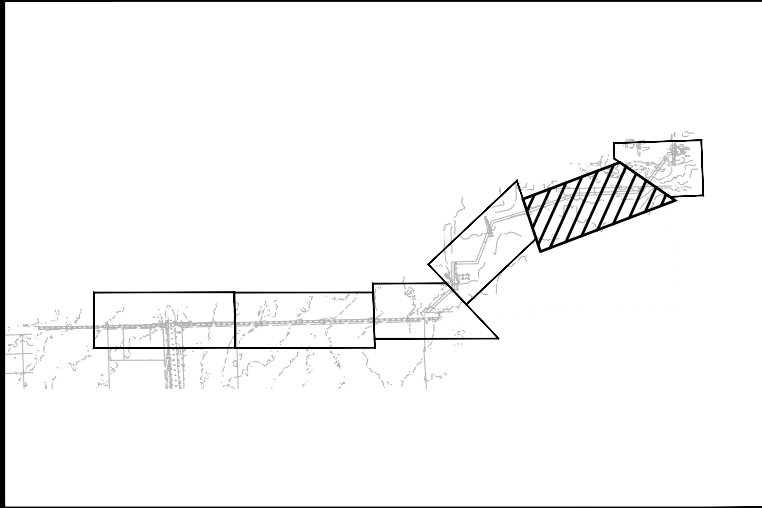
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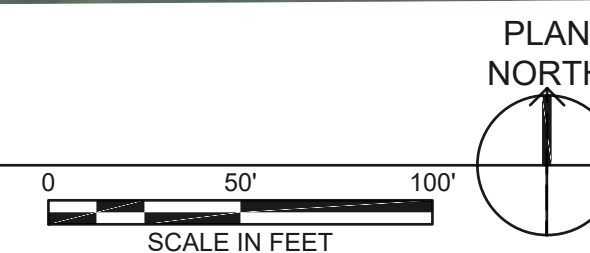
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SOUTHSIDE SEWER IMPROVEMENTS EXISTING CONDITIONS	
project	contract
156823	---
drawing	rev.
VF105	- A
sheet 9	of 25 sheets
file 156823-VF101-EXISTING CONDITIONS.DWG	



EXISTING CONDITIONS

SCALE: 1" = 50'

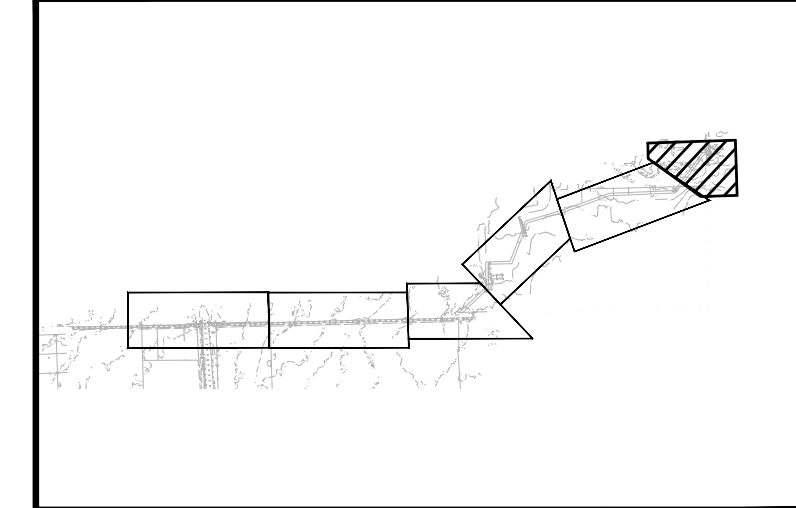
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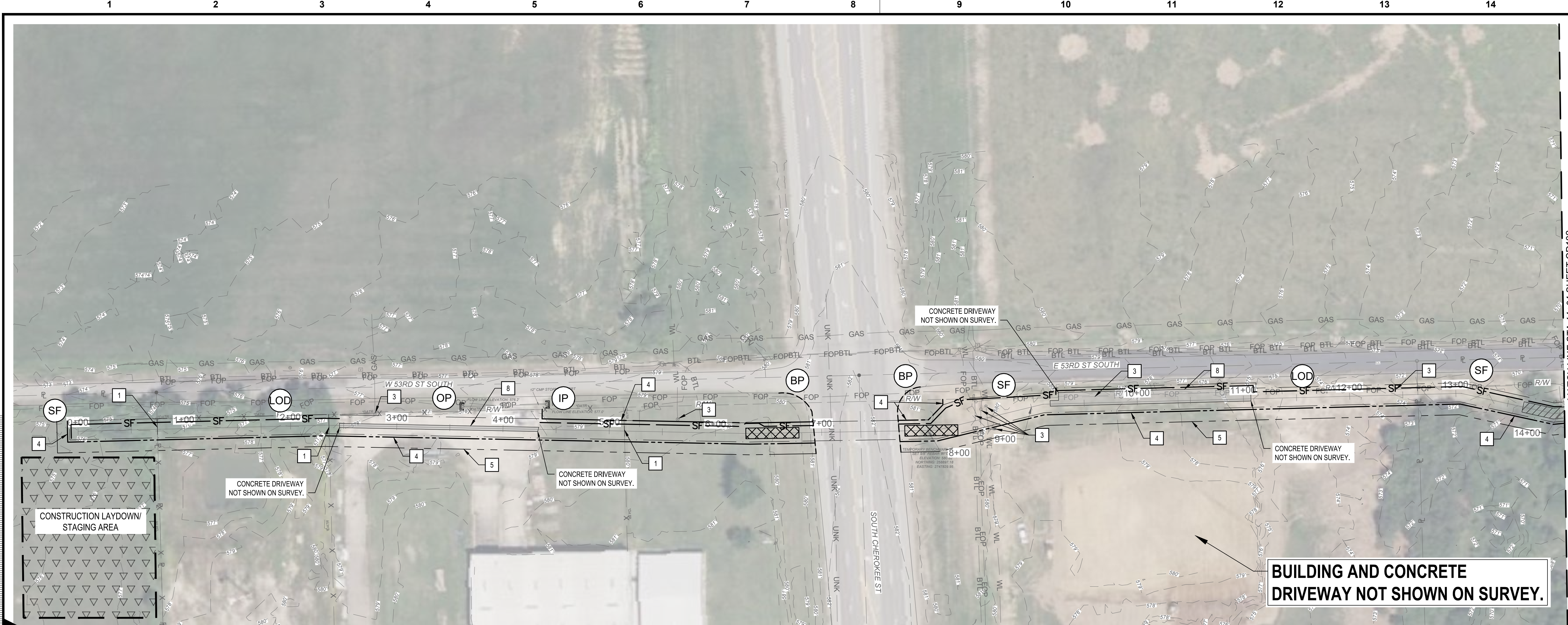

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**SOUTHSIDE
SEWER IMPROVEMENTS
EXISTING CONDITIONS**

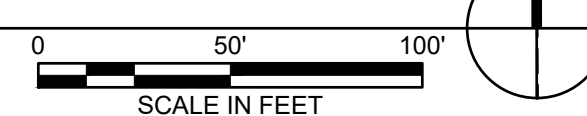
project	156823	contract	---
drawing	VF106	rev.	A
sheet	10	of	25 sheets
file 156823-VF101-EXISTING CONDITIONS.DWG			



MATCH LINE STA 14+04 SHEET CD102

DEMO AND EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 50'



GENERAL NOTES

- SANITARY SEWER ALIGNMENT SHOWN FOR REFERENCE ONLY.
- CONTRACTOR IS RESPONSIBLE FOR CLEARING AND GRUBBING EXISTING TREES AND VEGETATION AS NEEDED TO INSTALL THE PROPOSED UTILITY.
- CONTRACTOR IS TO JACK AND BORE AT LEAST 3' BELOW NATURAL BOTTOM OF STREAM BED. CONSTRUCT OR ENCASE THE CROSSING WITH DUCTILE IRON PIPE USING MECHANICAL JOINTS (252.656-5-4. CONSTRUCTION STANDARDS. TITLE 252. DEPARTMENT OF ENVIRONMENTAL QUALITY CHAPTER 656.)
- CONTRACTOR IS RESPONSIBLE FOR TEMPORARY TRAFFIC CONTROL PLAN AND EXECUTION.
- CONTRACTOR IS TO ENSURE POSITIVE DRAINAGE AT ALL STORM INLETS/ END SECTIONS.
- JACK AND BORE PIT LIMITS ARE APPROXIMATE. CONTRACTOR TO DETERMINE ACTUAL LIMITS.
- CONTRACTOR TO PROTECT ALL UTILITIES, SITE FEATURES, AND STRUCTURES NOT MARKED TO BE REMOVED.

DEMOLITION LEGEND

TO BE REMOVED	
PAVEMENT AND OR GRAVEL TO BE REMOVED	
JACK AND BORE BORING/ RECEIVING PIT	
SAWCUT	
CLEAR BRUSH/ VEGETATION	

E & S LEGEND

TITLE	KEY	SYMBOL
SILT FENCE	(SF)	
LIMITS OF DISTURBANCE	(LOD)	
INLET PROTECTION	(IP)	
OUTLET PROTECTION	(OP)	
CONSTRUCTION LAYDOWN AND STAGING AREA		
TEMPORARY BARRIER PROTECTION	(BP)	

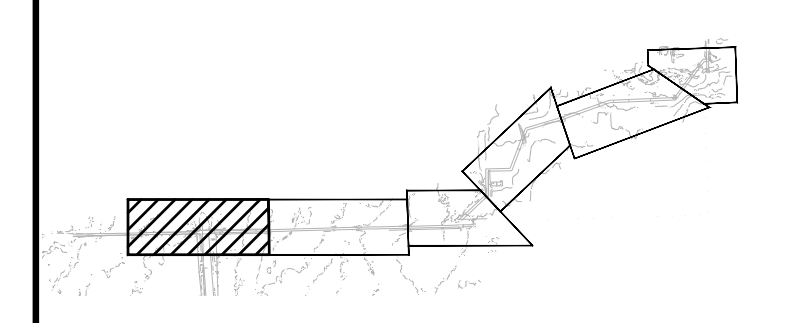
KEY NOTES

- REMOVE AND RESET EXISTING FENCE TO NEAREST POST AS NEEDED TO INSTALL PROPOSED UTILITY.
- REMOVE AND REINSTALL GRAVEL AS NEEDED TO INSTALL PROPOSED UTILITY.
- EXISTING UTILITY TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY DURING CONSTRUCTION.
- PROPOSED SANITARY UTILITY EASEMENT.
- TEMPORARY CONSTRUCTION EASEMENT.
- CONTRACTOR IS TO PROTECT CONCRETE PAD DURING CONSTRUCTION.
- CONTRACTOR IS TO PROTECT STORM END SECTION.
- REMOVE CONCRETE PAVEMENT TO NEAREST JOINT.

no.	date	by	kcd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION

Oklahoma License No. 30930
 Issued: 02/28/2019
 Expires: 02/28/2026

 December 8, 2024



KEY PLAN
NOT TO SCALE

1317 EXECUTIVE BLVD, SUITE 300
 CHESAPEAKE, VA 23320
 757-548-2056
 CA #421

date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING

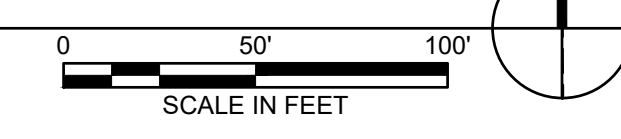
SUCCESS FLOWS FROM MUSKOGEE
ISSUED FOR CONSTRUCTION
 MUSKOGEE, OKLAHOMA

SOUTHSIDE SEWER IMPROVEMENTS DEMO AND EROSION AND SEDIMENT CONTROL PLAN	
project	contract
156823	---
drawing	rev.
CD101 - A	
sheet 11	of 25 sheets
file 156823-CD101-DEMO & ESC.DWG	



DEMO AND EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 50'



GENERAL NOTES

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- CONTRACTOR IS TO ENSURE POSITIVE DRAINAGE AT ALL STORM INLETS/ END SECTIONS.
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KEY NOTES

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DEMOLITION LEGEND

TO BE REMOVED	
PAVEMENT AND OR GRAVEL TO BE REMOVED	
JACK AND BORE BORING/ RECEIVING PIT	
SAWCUT	
CLEAR BRUSH/ VEGETATION	

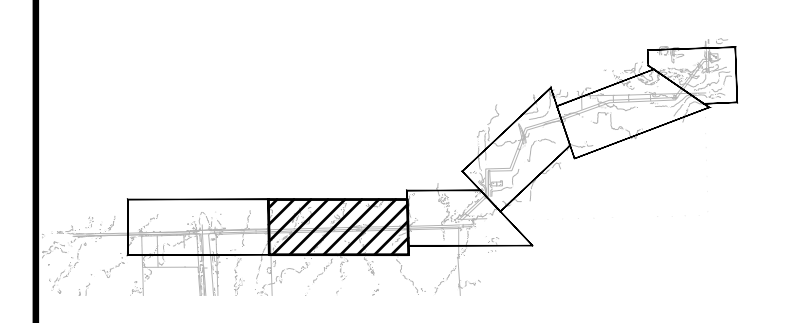
E & S LEGEND

TITLE	KEY	SYMBOL
SILT FENCE	(SF)	
LIMITS OF DISTURBANCE	(LOD)	
INLET PROTECTION	(IP)	
OUTLET PROTECTION	(OP)	
CONSTRUCTION LAYDOWN AND STAGING AREA		
TEMPORARY BARRIER PROTECTION	(BP)	

no.	date	by	ckd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION

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KEY PLAN
NOT TO SCALE

1317 EXECUTIVE BLVD, SUITE 300
 CHESAPEAKE, VA 23320
 757-548-2056
 CA #421

date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING

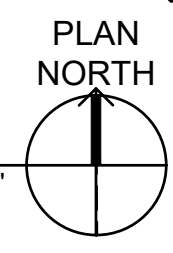
SUCCESS FLOWS FROM MUSKOGEE
ISSUED FOR CONSTRUCTION
 MUSKOGEE, OKLAHOMA

SOUTHSIDE SEWER IMPROVEMENTS DEMO AND EROSION AND SEDIMENT CONTROL PLAN	
project	contract
156823	---
drawing	rev.
CD102 - A	
sheet 12	of 25 sheets
file 156823-CD101-DEMO & ESC.DWG	



DEMO AND EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 50'



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DEMOLITION LEGEND

TO BE REMOVED	
PAVEMENT AND OR GRAVEL TO BE REMOVED	
JACK AND BORE BORING/ RECEIVING PIT	
SAWCUT	
CLEAR BRUSH/ VEGETATION	

E & S LEGEND

TITLE	KEY	SYMBOL
SILT FENCE	(SF)	
LIMITS OF DISTURBANCE	(LOD)	
INLET PROTECTION	(IP)	
OUTLET PROTECTION	(OP)	
CONSTRUCTION LAYDOWN AND STAGING AREA		
TEMPORARY BARRIER PROTECTION	(BP)	

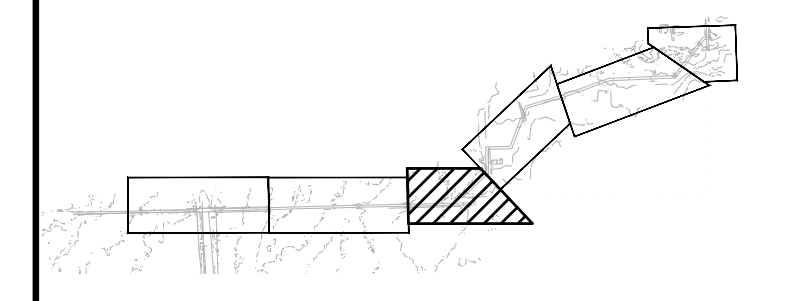
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no.	date	by	ckd	description
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KEY PLAN
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 757-548-2056
 CA #421

date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING

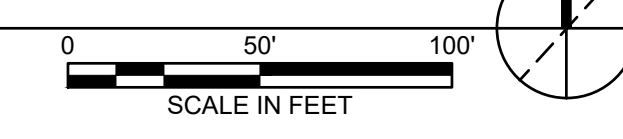
SUCCESS FLOWS FROM MUSKOGEE
ISSUED FOR CONSTRUCTION
 MUSKOGEE, OKLAHOMA

SOUTHSIDE SEWER IMPROVEMENTS DEMO AND EROSION AND SEDIMENT CONTROL PLAN			
project	156823	contract	---
drawing	CD103 - A		rev.
sheet	13	of	25 sheets
file	156823-CD101-DEMO & ESC.DWG		



DEMO AND EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 50'



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DEMOLITION LEGEND

TO BE REMOVED	
PAVEMENT AND OR GRAVEL TO BE REMOVED	
JACK AND BORE BORING/ RECEIVING PIT	
SAWCUT	
CLEAR BRUSH/ VEGETATION	

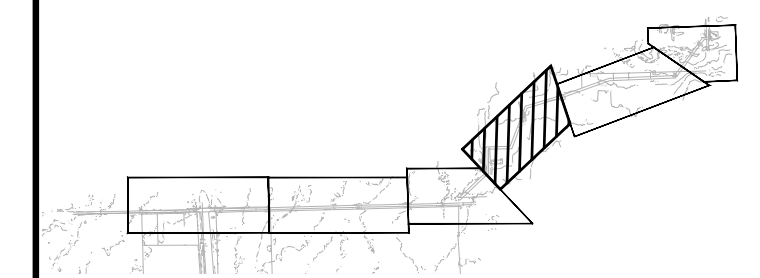
E & S LEGEND

TITLE	KEY	SYMBOL
SILT FENCE		
LIMITS OF DISTURBANCE		
INLET PROTECTION		
OUTLET PROTECTION		
CONSTRUCTION LAYDOWN AND STAGING AREA		
TEMPORARY BARRIER PROTECTION		

no.	date	by	kcd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION



Oklahoma License No. 30930
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Seth M. Gilliam
 December 8, 2024



KEY PLAN
 NOT TO SCALE
 NORTH



1317 EXECUTIVE BLVD, SUITE 300
 CHESAPEAKE, VA 23320
 757-548-2056
 CA #421

date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING



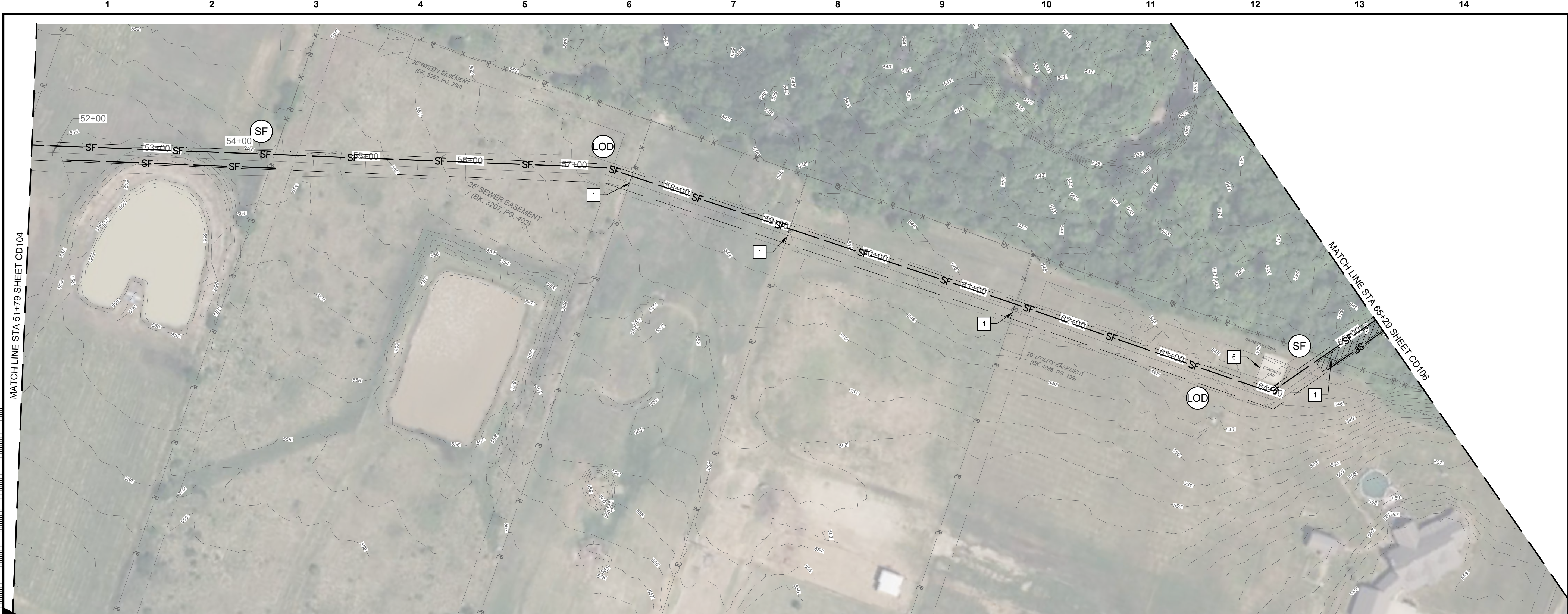
SUCCESS FLOWS FROM MUSKOGEE
 ISSUED FOR CONSTRUCTION

MUSKOGEE, OKLAHOMA

SOUTHSIDE
 SEWER IMPROVEMENTS
 DEMO AND EROSION AND
 SEDIMENT CONTROL PLAN

project	156823	contract	---
drawing	CD104	rev.	A

sheet 14 of 25 sheets
 file 156823-CD101-DEMO & ESC.DWG



no.	date	by	kcd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION

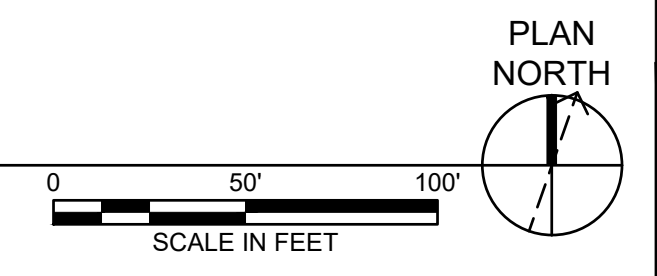
Millimeters
 Scale For Microfilming
 Inches

Oklahoma License No. 30930
 Issued: 02/28/2019
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Seth M. Gilliam
 December 8, 2024

DEMO AND EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 50'



- ### GENERAL NOTES
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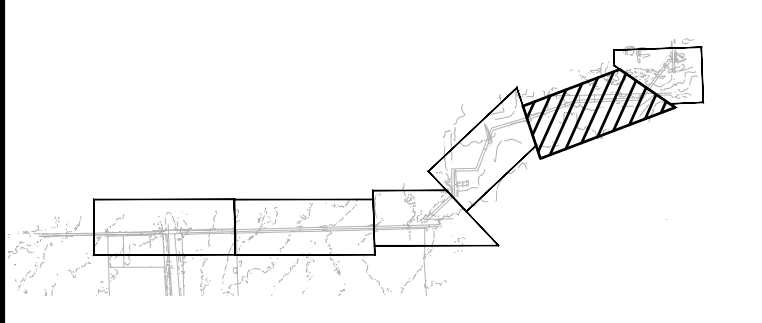
DEMOLITION LEGEND

TO BE REMOVED	
PAVEMENT AND OR GRAVEL TO BE REMOVED	
JACK AND BORE BORING/ RECEIVING PIT	
SAWCUT	
CLEAR BRUSH/ VEGETATION	

E & S LEGEND

TITLE	KEY	SYMBOL
SILT FENCE	(SF)	
LIMITS OF DISTURBANCE	(LOD)	
INLET PROTECTION	(IP)	
OUTLET PROTECTION	(OP)	
CONSTRUCTION LAYDOWN AND STAGING AREA		
TEMPORARY BARRIER PROTECTION	(BP)	

- ### KEY NOTES #
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 - REMOVE CONCRETE PAVEMENT TO NEAREST JOINT.



KEY PLAN
 NOT TO SCALE
 NORTH

**BURNS
 & MCDONNELL**

1317 EXECUTIVE BLVD, SUITE 300
 CHESAPEAKE, VA 23320
 757-548-2056
 CA #421

date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING

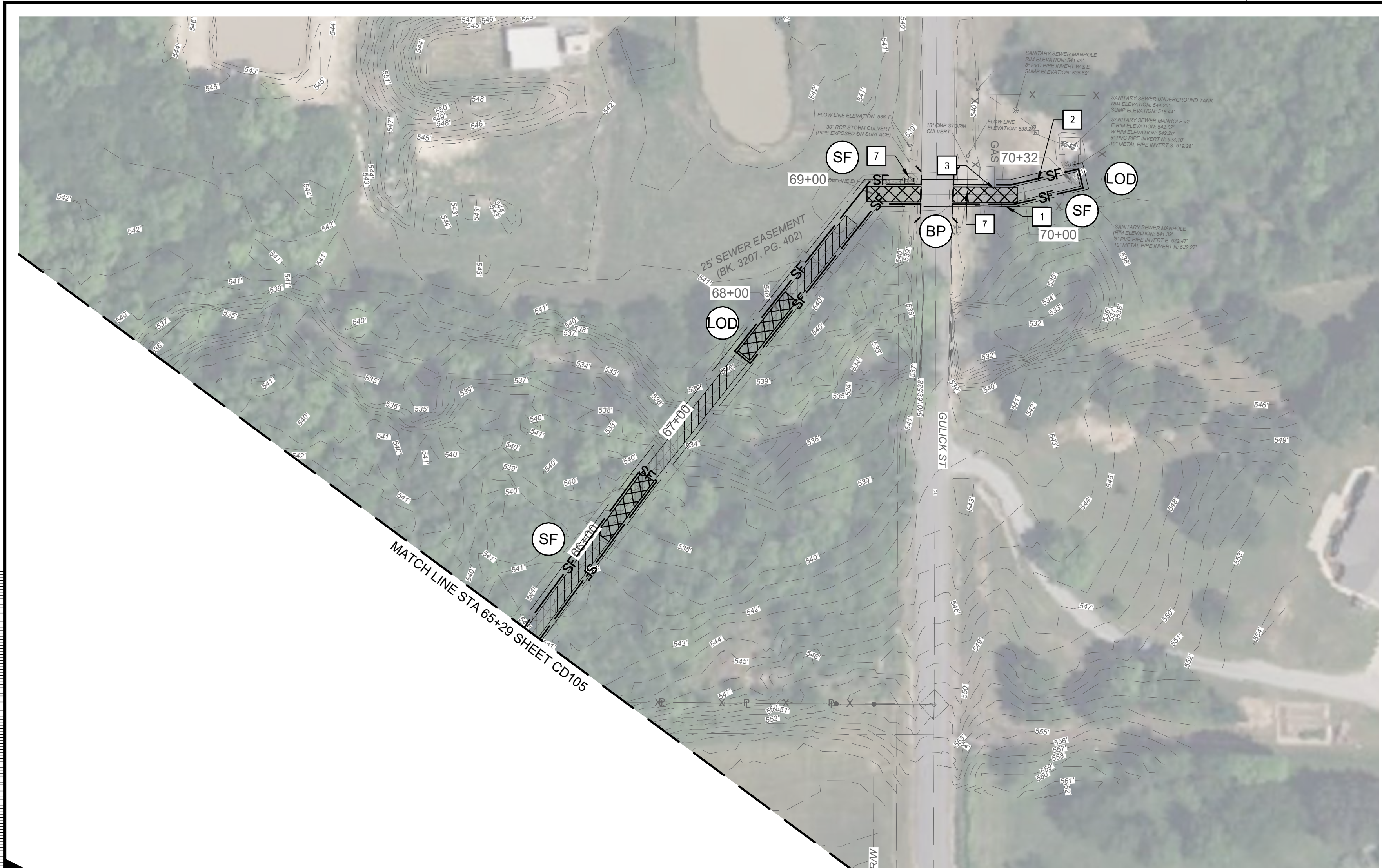
**PORT
 MUSKOGEE**

SUCCESS FLOWS FROM MUSKOGEE

ISSUED FOR CONSTRUCTION

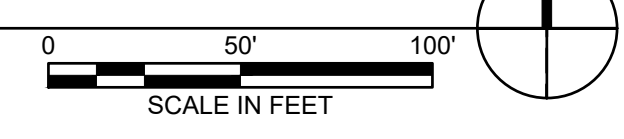
MUSKOGEE, OKLAHOMA

SOUTHSIDE SEWER IMPROVEMENTS DEMO AND EROSION AND SEDIMENT CONTROL PLAN	
project	contract
156823	---
drawing	rev.
CD105 - A	
sheet 15	of 25 sheets
file 156823-CD101-DEMO & ESC.DWG	



DEMO AND EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 50'



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DEMOLITION LEGEND

- TO BE REMOVED: [diagonal hatching symbol]
- PAVEMENT AND OR GRAVEL TO BE REMOVED: [solid grey rectangle symbol]
- JACK AND BORE BORING/ RECEIVING PIT: [cross-hatch symbol]
- SAWCUT: [dashed line symbol]
- CLEAR BRUSH/ VEGETATION: [diagonal hatching symbol]

E & S LEGEND

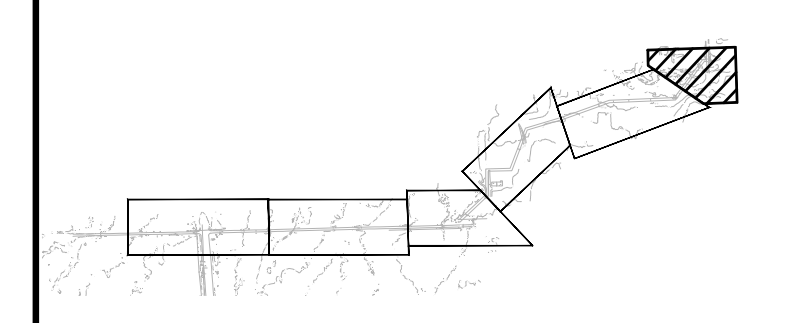
- | TITLE | KEY | SYMBOL |
|---------------------------------------|-----|--|
| SILT FENCE | SF | [line with perpendicular dashes symbol] |
| LIMITS OF DISTURBANCE | LOD | [dashed line symbol] |
| INLET PROTECTION | IP | [rectangle with vertical lines symbol] |
| OUTLET PROTECTION | OP | [rectangle with horizontal lines symbol] |
| CONSTRUCTION LAYDOWN AND STAGING AREA | | [rectangle with inverted triangles symbol] |
| TEMPORARY BARRIER PROTECTION | BP | [dashed line symbol] |

KEY NOTES

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A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION

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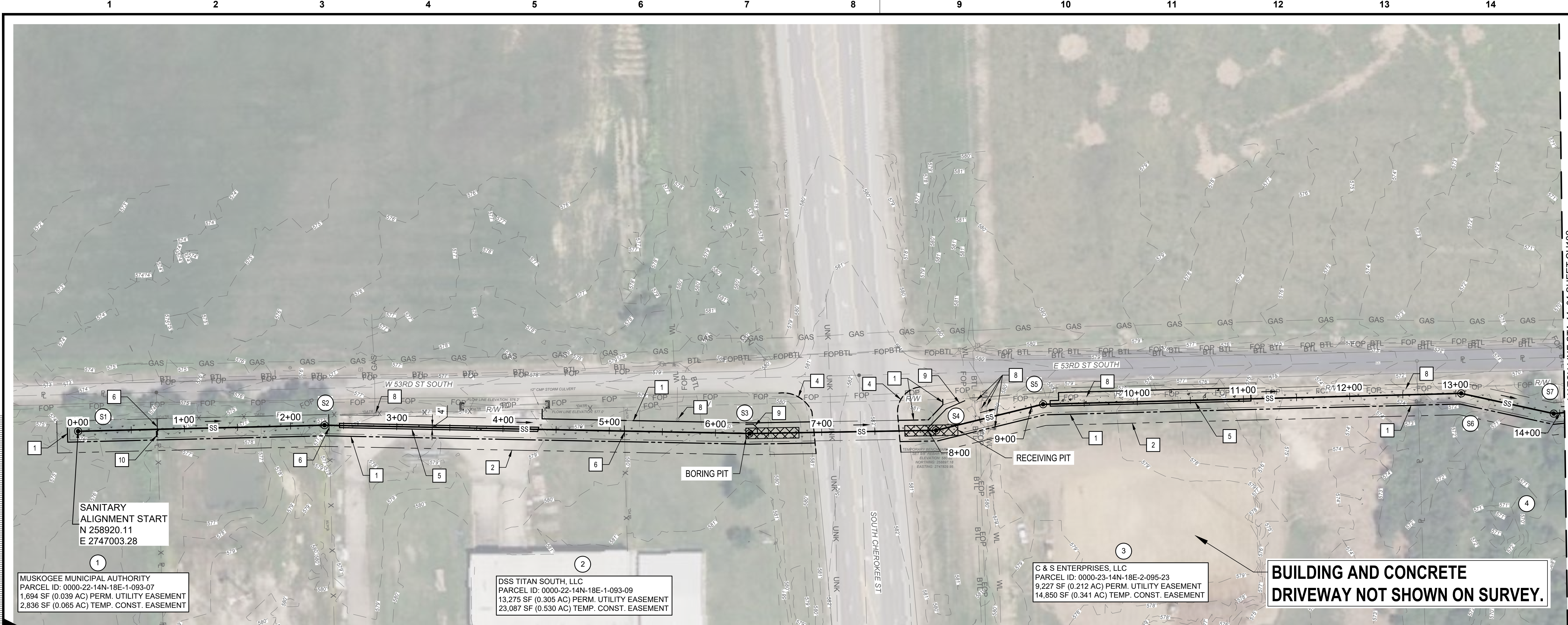
KEY PLAN
NOT TO SCALE

**BURNS
MCDONNELL**
 1317 EXECUTIVE BLVD, SUITE 300
 CHESAPEAKE, VA 23320
 757-548-2056
 CA #421

date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING

**PORT
MUSKOGEE**
 SUCCESS FLOWS FROM MUSKOGEE
ISSUED FOR CONSTRUCTION
 MUSKOGEE, OKLAHOMA

SOUTHSIDE SEWER IMPROVEMENTS DEMO AND EROSION AND SEDIMENT CONTROL PLAN			
project	156823	contract	---
drawing	CD106 - A		rev.
sheet	16	of	25 sheets
file 156823-CD101-DEMO & ESC.DWG			



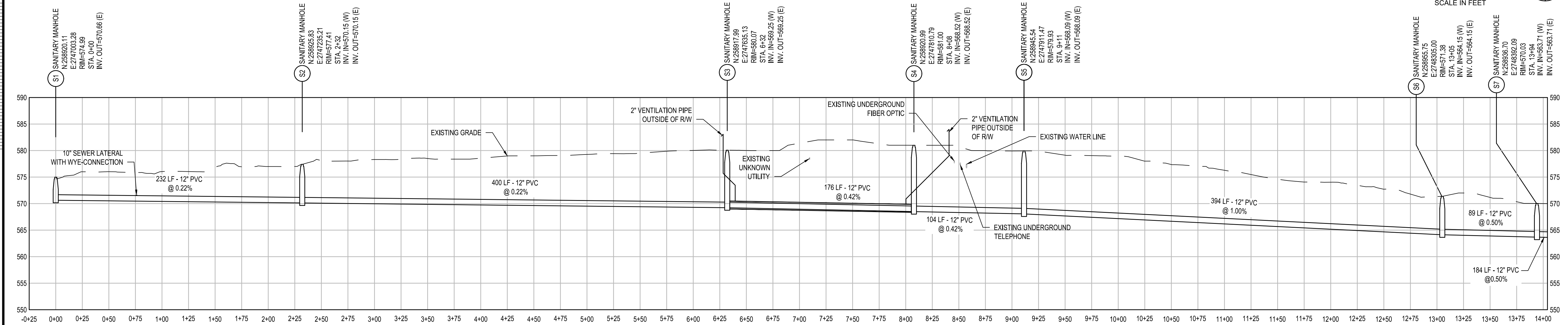
no.	date	by	kcd	description
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UTILITY PLAN

SCALE: 1" = 50'



SANITARY SEWER STA -0+25 TO 14+04 PROFILE

HORIZ: 1" = 50'
 VERT: 1" = 10'

GENERAL NOTES

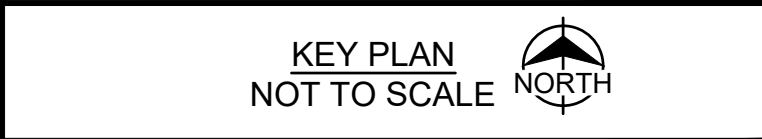
- EXISTING UTILITIES SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DEPTHS AND SIZES.
- ALL PIPE TO BE TRENCHED UNLESS OTHERWISE NOTED IN PLANS.
- CONTRACTOR TO CONFIRM BOTTOM OF CREEK BED ELEVATION.
- CONTRACTOR TO CONFIRM LOCATION AND DEPTH OF UTILITY CONNECTIONS OF NEARBY BUILDINGS.
- CONTRACTOR TO RESET ANY SITE FEATURES DISTURBED DURING CONSTRUCTION.
- JACK AND BORE LIMITS ARE APPROXIMATE. CONTRACTOR TO DETERMINE ACTUAL LIMITS.
- CONTRACTOR IS TO ENSURE POSITIVE DRAINAGE AT ALL STORM INLETS/ END SECTIONS.
- ALL ENCASED CROSSINGS ARE TO BE SEALED AT BOTH ENDS AND VENTED OUTSIDE OF ANY RIGHT OF WAY LINE WHEN APPLICABLE. AN 18" CASING MINIMUM IS REQUIRED ON ALL JACK AND BORED UTILITIES. VENTILATION PIPING IS SUBSIDIARY TO THE JACK AND BORING BIDDING COST FOR THE PROPOSED UTILITY.
- DIP TO PVC TRANSITION COUPLING IS SUBSIDIARY TO THE JACK AND BORE BIDDING COST FOR THE PROPOSED UTILITY.

KEY NOTES

- PROPOSED SANITARY UTILITY EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- GRAVEL
- TEMPORARY TRAFFIC BARRIER TO PROTECT CLEARZONE DURING JACK AND BORE OPERATIONS.
- CONCRETE PAVEMENT
- BARBED WIRE CHAIN LINK FENCE, REPLACE IN KIND TO NEAREST POST.
- STRAND WIRE FENCE, REPLACE IN KIND TO NEAREST POST.
- EXISTING UTILITY TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY DURING CONSTRUCTION.
- 2" VENTILATION PIPE
- 10" SEWER LATERAL, WYE-CONNECTION. CONTRACTOR SHALL CAP AT END OF LINE WITH FLANGED CONNECTION CAP.

SITE LEGEND

- GRAVEL
- JACK AND BORE BORING/ RECEIVING PIT
- PERMANENT SEEDING
- CONCRETE PAVEMENT
- LIMITS OF DISTURBANCE
- PROPOSED SANITARY UTILITY EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT



BURNS MEDONNELL
 1317 EXECUTIVE BLVD, SUITE 300
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date	DES. 8, 2024	designed	C. EVANCHO
checked	C. EVANCHO	checked	B. CHEWNING

PORT MUSKOGEE
 SUCCESS FLOWS FROM MUSKOGEE
 ISSUED FOR CONSTRUCTION

MUSKOGEE, OKLAHOMA	
SOUTHSIDE SEWER IMPROVEMENTS UTILITY PLAN & PROFILE	
project	156823
contract	---
drawing	CU101 - A
sheet	17 of 25 sheets
file	156823-CU101-UTILITY PLAN & PROFILE.DWG



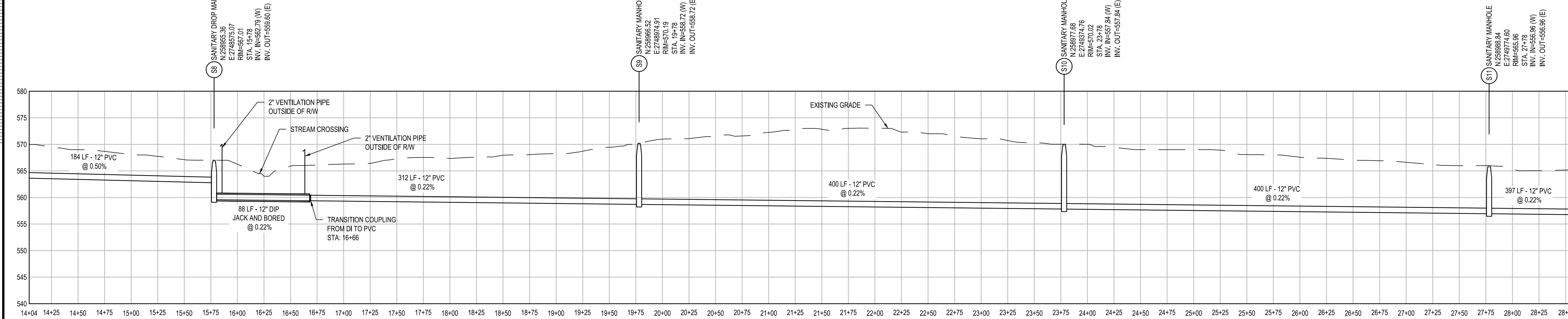
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0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION



Oklahoma License No. 30930
 Issued: 02/28/2019
 Expires: 02/28/2026
 December 8, 2024

UTILITY PLAN

SCALE: 1" = 50'



SANITARY SEWER STA 14+04 TO 28+55 PROFILE

HORIZ: 1" = 50'
 VERT: 1" = 10'

GENERAL NOTES

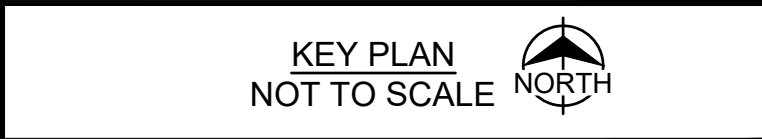
- EXISTING UTILITIES SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DEPTHS AND SIZES.
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- CONTRACTOR TO CONFIRM BOTTOM OF CREEK BED ELEVATION.
- CONTRACTOR TO CONFIRM LOCATION AND DEPTH OF UTILITY CONNECTIONS OF NEARBY BUILDINGS.
- CONTRACTOR TO RESET ANY SITE FEATURES DISTURBED DURING CONSTRUCTION.
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- DIP TO PVC TRANSITION COUPLING IS SUBSIDIARY TO THE JACK AND BORE BIDDING COST FOR THE PROPOSED UTILITY.

KEY NOTES

- PROPOSED SANITARY UTILITY EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- GRAVEL
- TEMPORARY TRAFFIC BARRIER TO PROTECT CLEARZONE DURING JACK AND BORE OPERATIONS.
- CONCRETE PAVEMENT
- BARBED WIRE CHAIN LINK FENCE, REPLACE IN KIND TO NEAREST POST.
- STRAND WIRE FENCE, REPLACE IN KIND TO NEAREST POST.
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- 2" VENTILATION PIPE
- 10" SEWER LATERAL, WYE-CONNECTION. CONTRACTOR SHALL CAP AT END OF LINE WITH FLANGED CONNECTION CAP.

SITE LEGEND

GRAVEL		LIMITS OF DISTURBANCE	
JACK AND BORE BORING/ RECEIVING PIT		PROPOSED SANITARY UTILITY EASEMENT	
PERMANENT SEEDING		TEMPORARY CONSTRUCTION EASEMENT	
CONCRETE PAVEMENT			

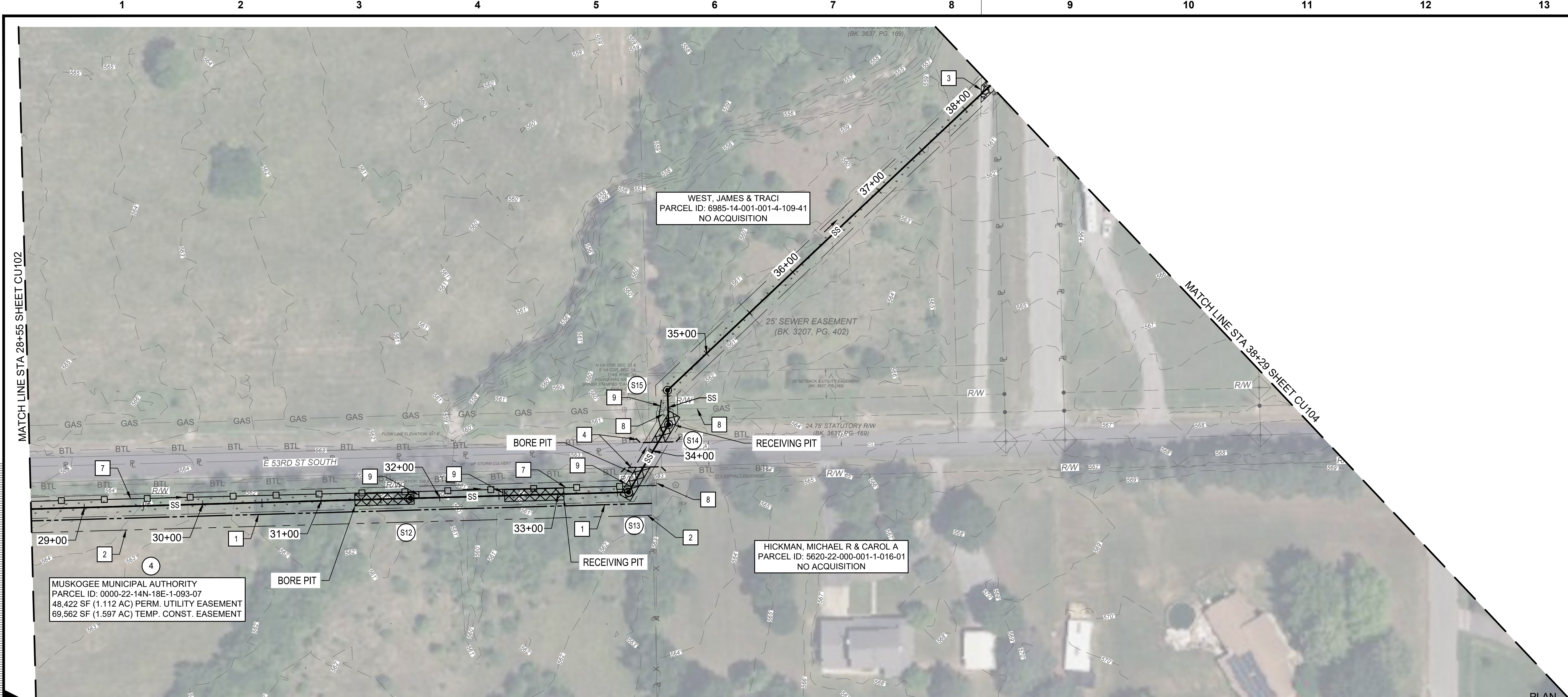


BURNS MEDONNELL
 1317 EXECUTIVE BLVD, SUITE 300
 CHESAPEAKE, VA 23320
 757-545-2056
 CA #421

date	DEC. 8, 2024	designed	C. EVANCHO	checked	B. CHEWNING
date	DEC. 8, 2024	designed	C. EVANCHO	checked	B. CHEWNING

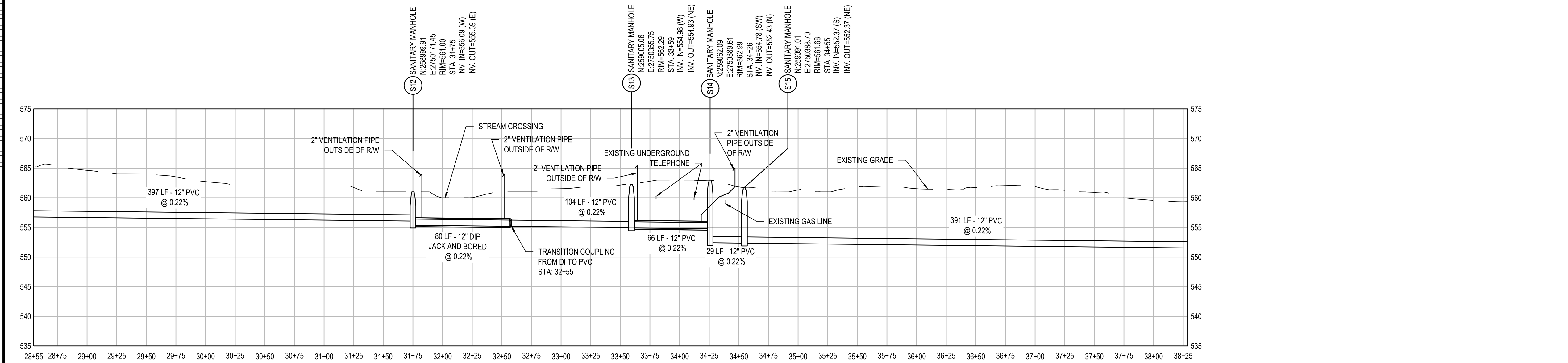
PORT MUSKOGEE
 SUCCESS FLOWS FROM MUSKOGEE
 ISSUED FOR CONSTRUCTION

MUSKOGEE, OKLAHOMA	
SOUTHSIDE SEWER IMPROVEMENTS UTILITY PLAN & PROFILE	
project	156823
contract	---
drawing	CU102 - A
sheet	18 of 25 sheets
file 156823-CU101-UTILITY PLAN & PROFILE.DWG	



UTILITY PLAN

SCALE: 1" = 50'



SANITARY SEWER STA 28+55 TO 38+29 PROFILE

HORIZ: 1" = 50'
VERT: 1" = 10'

GENERAL NOTES

- EXISTING UTILITIES SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DEPTHS AND SIZES.
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- TEMPORARY CONSTRUCTION EASEMENT
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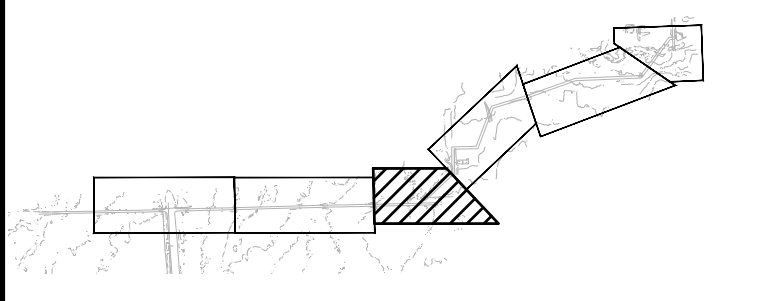
SITE LEGEND

- GRAVEL
- JACK AND BORE BORING/ RECEIVING PIT
- PERMANENT SEEDING
- CONCRETE PAVEMENT
- LIMITS OF DISTURBANCE
- PROPOSED SANITARY UTILITY EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT

no.	date	by	kcd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION



Oklahoma License No. 30930
Issued: 02/28/2019
Expires: 02/28/2026
Seth M. Gilliam
December 8, 2024



KEY PLAN
NOT TO SCALE

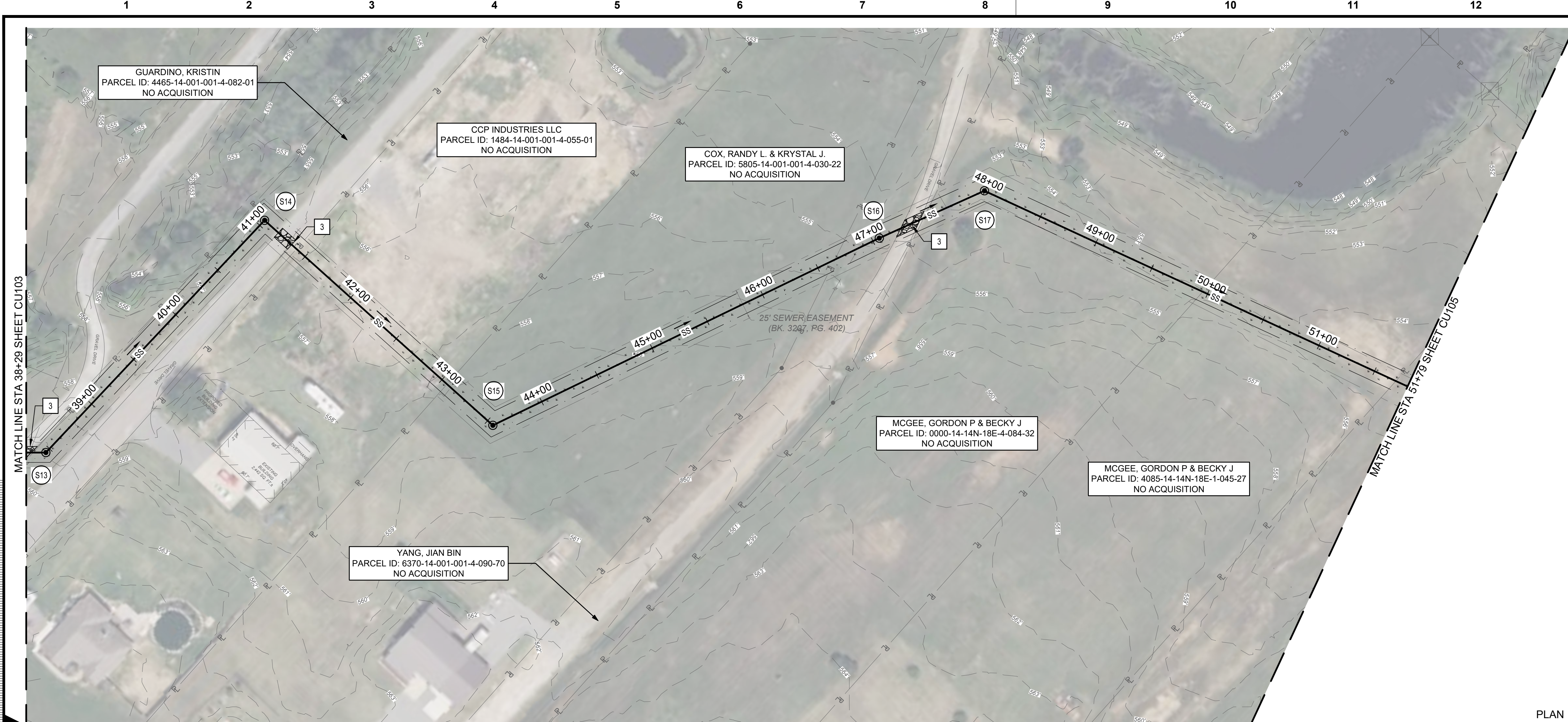


1317 EXECUTIVE BLVD, SUITE 300
CHESAPEAKE, VA 23320
757-548-2056
CA #421

date	DEC. 8, 2024	designed	C. EVANCHO	checked	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING		

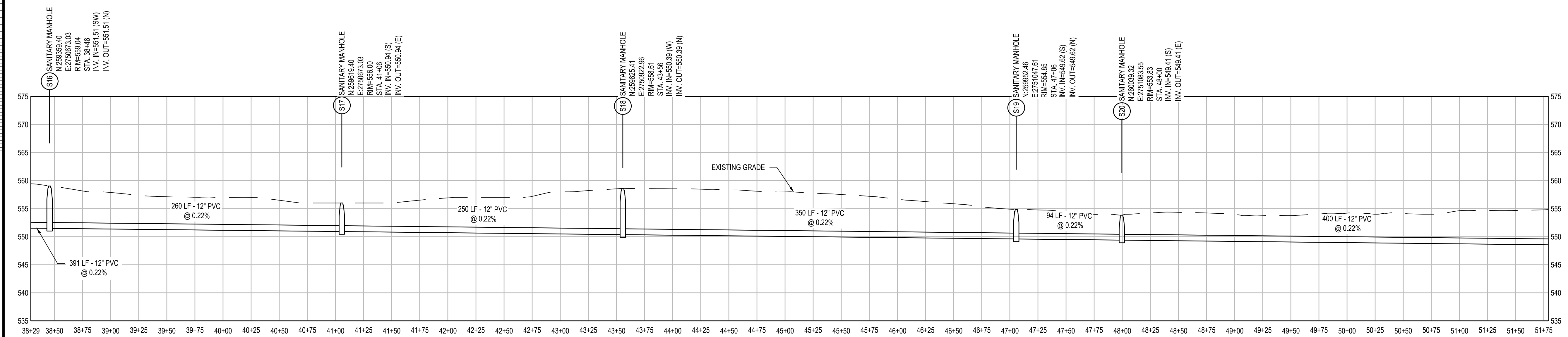
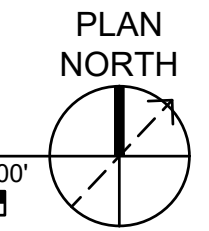


project		contract	
156823			
drawing		rev.	
CU103		A	
sheet	19	of	25 sheets
file 156823-CU101-UTILITY PLAN & PROFILE.DWG			



UTILITY PLAN

SCALE: 1" = 50'



SANITARY SEWER STA 38+29 TO 51+79 PROFILE

HORIZ: 1" = 50'
VERT: 1" = 10'

GENERAL NOTES

- EXISTING UTILITIES SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DEPTHS AND SIZES.
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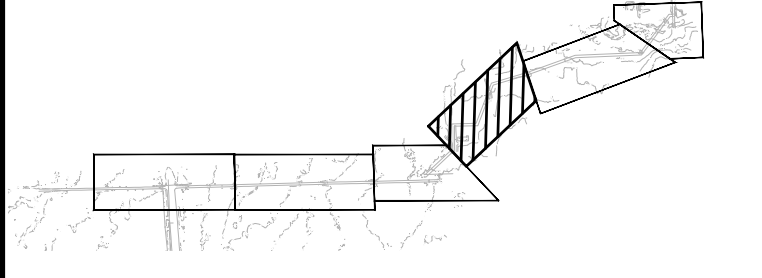
SITE LEGEND

- GRAVEL
- JACK AND BORE BORING/ RECEIVING PIT
- PERMANENT SEEDING
- CONCRETE PAVEMENT
- LIMITS OF DISTURBANCE
- PROPOSED SANITARY UTILITY EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT

no.	date	by	kcd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION



Oklahoma License No. 30930
Issued: 02/28/2019
Expires: 02/28/2026
Seth M. Gilliam
December 8, 2024



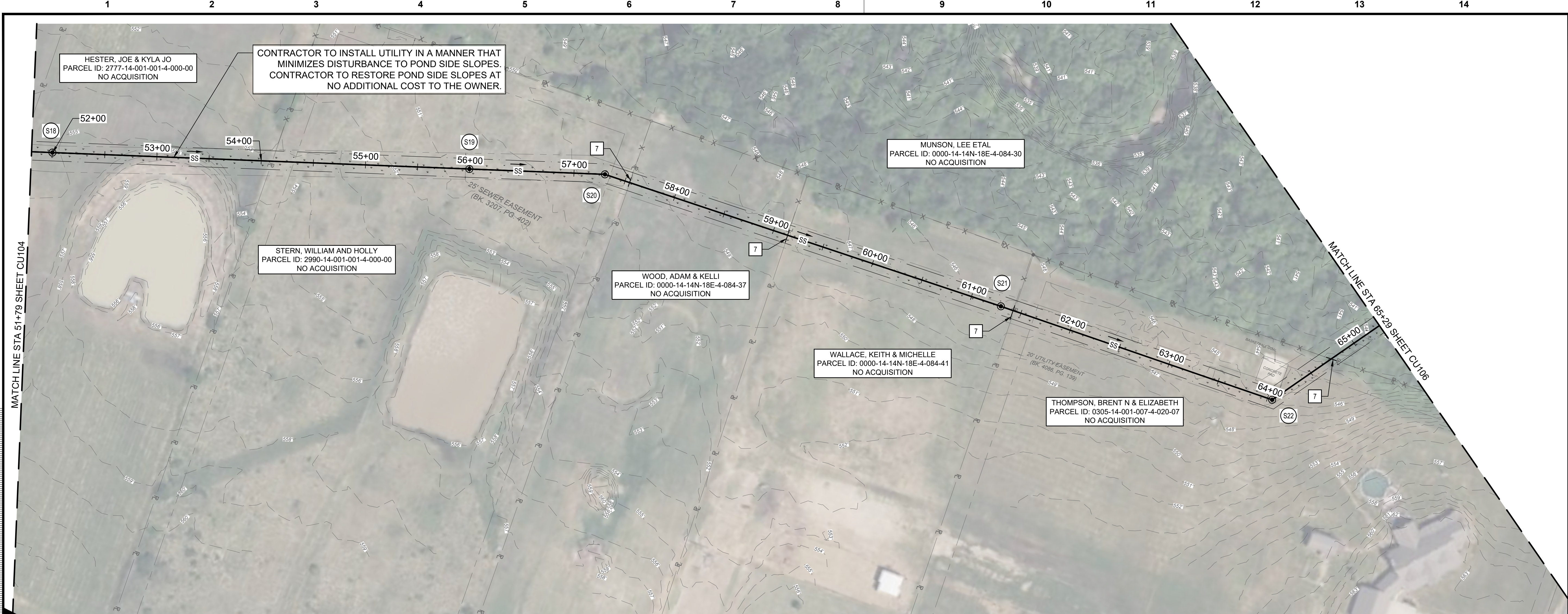
KEY PLAN
NOT TO SCALE

**BURNS
MEDONNELL**
1317 EXECUTIVE BLVD, SUITE 300
CHESAPEAKE, VA 23320
757-548-2056
CA #421

date	designed	detailed	checked
DEC. 8, 2024	C. EVANCHO	C. EVANCHO	B. CHEWNING

PORT MUSKOGEE
SUCCESS FLOWS FROM MUSKOGEE
ISSUED FOR CONSTRUCTION

MUSKOGEE, OKLAHOMA	
SOUTHSIDE SEWER IMPROVEMENTS UTILITY PLAN & PROFILE	
project 156823	contract ---
drawing	rev. CU104 - A
sheet 20	of 25 sheets
file 156823-CU101-UTILITY PLAN & PROFILE.DWG	



no.	date	by	kcd	description
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A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION

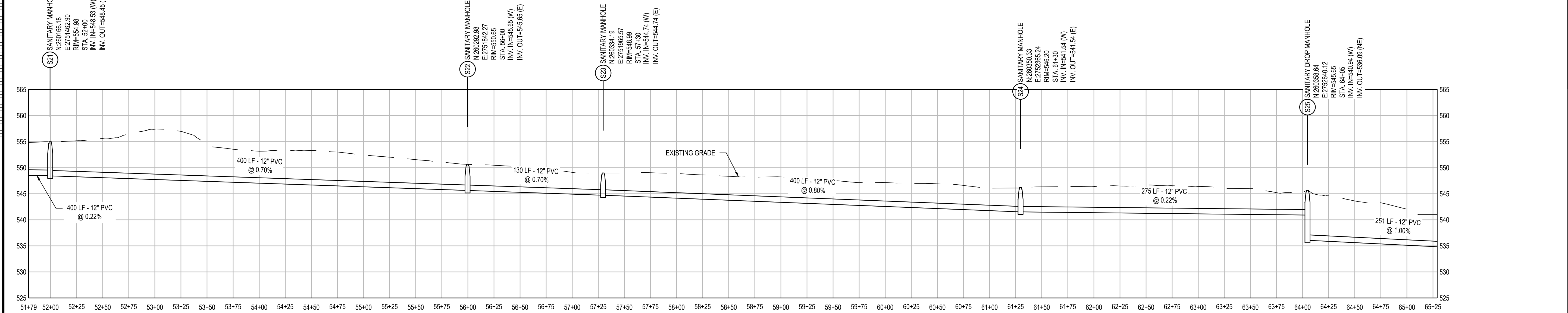
STATE OF OKLAHOMA
Department of Environmental Quality
APPROVED
October 18 2024
Rocky W. Chen, P.E.
Water Quality Division
[Signature]
Jacob Cornelius, P.E.
Construction Permitting Section



Oklahoma License No. 30930
Issued: 02/28/2019
Expires: 02/28/2026
[Signature]
December 8, 2024

UTILITY PLAN

SCALE: 1" = 50'
PLAN NORTH



SANITARY SEWER STA 51+79 TO 65+29 PROFILE

HORIZ: 1" = 50'
VERT: 1" = 10'

GENERAL NOTES

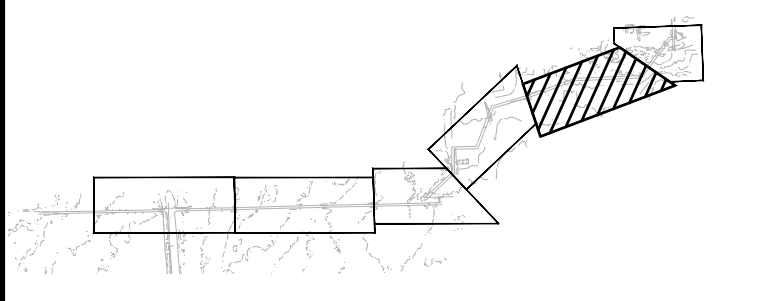
- EXISTING UTILITIES SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DEPTHS AND SIZES.
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SITE LEGEND

GRAVEL		LIMITS OF DISTURBANCE	
JACK AND BORE BORING/ RECEIVING PIT		PROPOSED SANITARY UTILITY EASEMENT	
PERMANENT SEEDING		TEMPORARY CONSTRUCTION EASEMENT	
CONCRETE PAVEMENT			



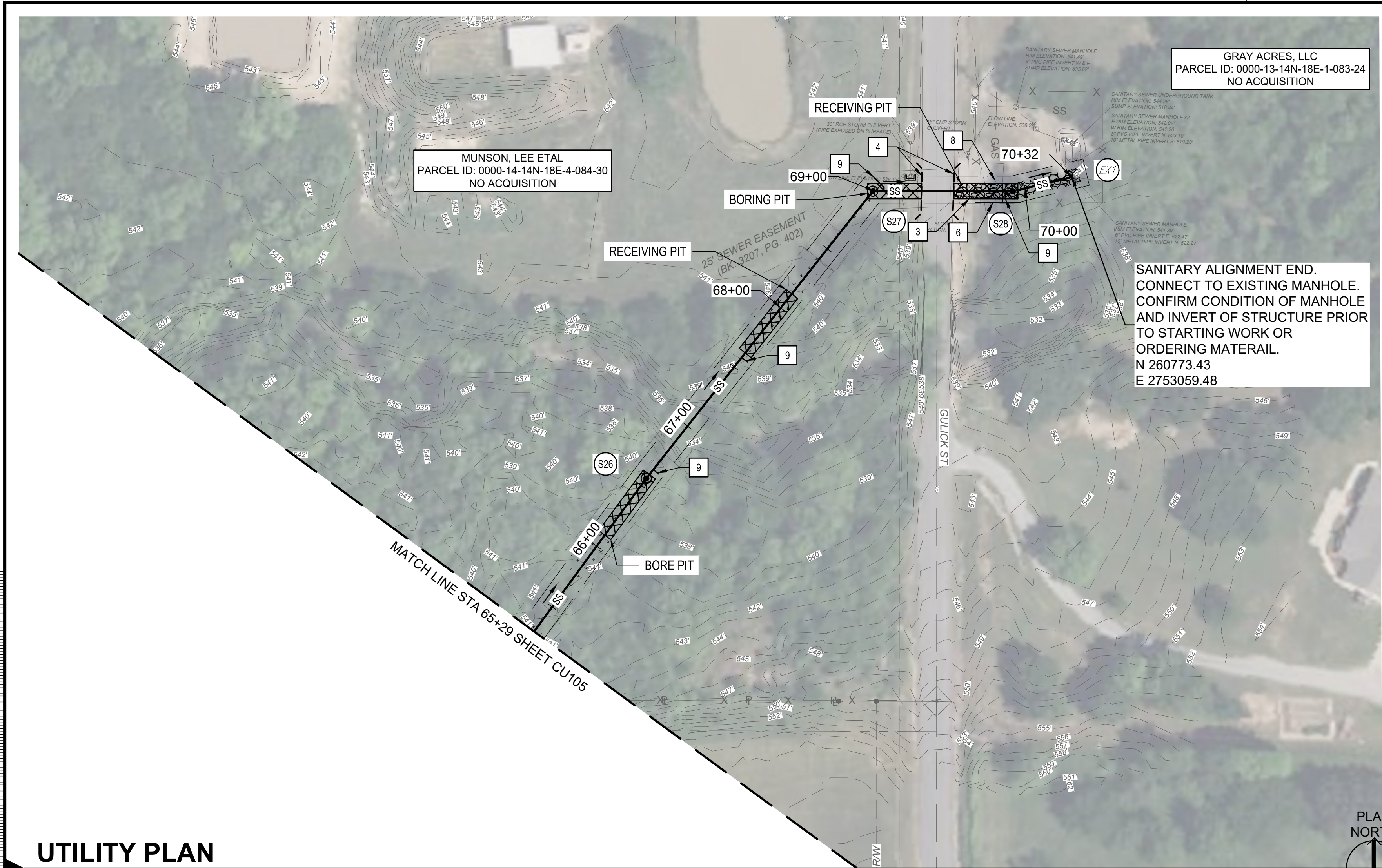
KEY PLAN
NOT TO SCALE

BURNS MEDONNELL
1317 EXECUTIVE BLVD, SUITE 300
CHESAPEAKE, VA 23320
757-545-2056
CA #421

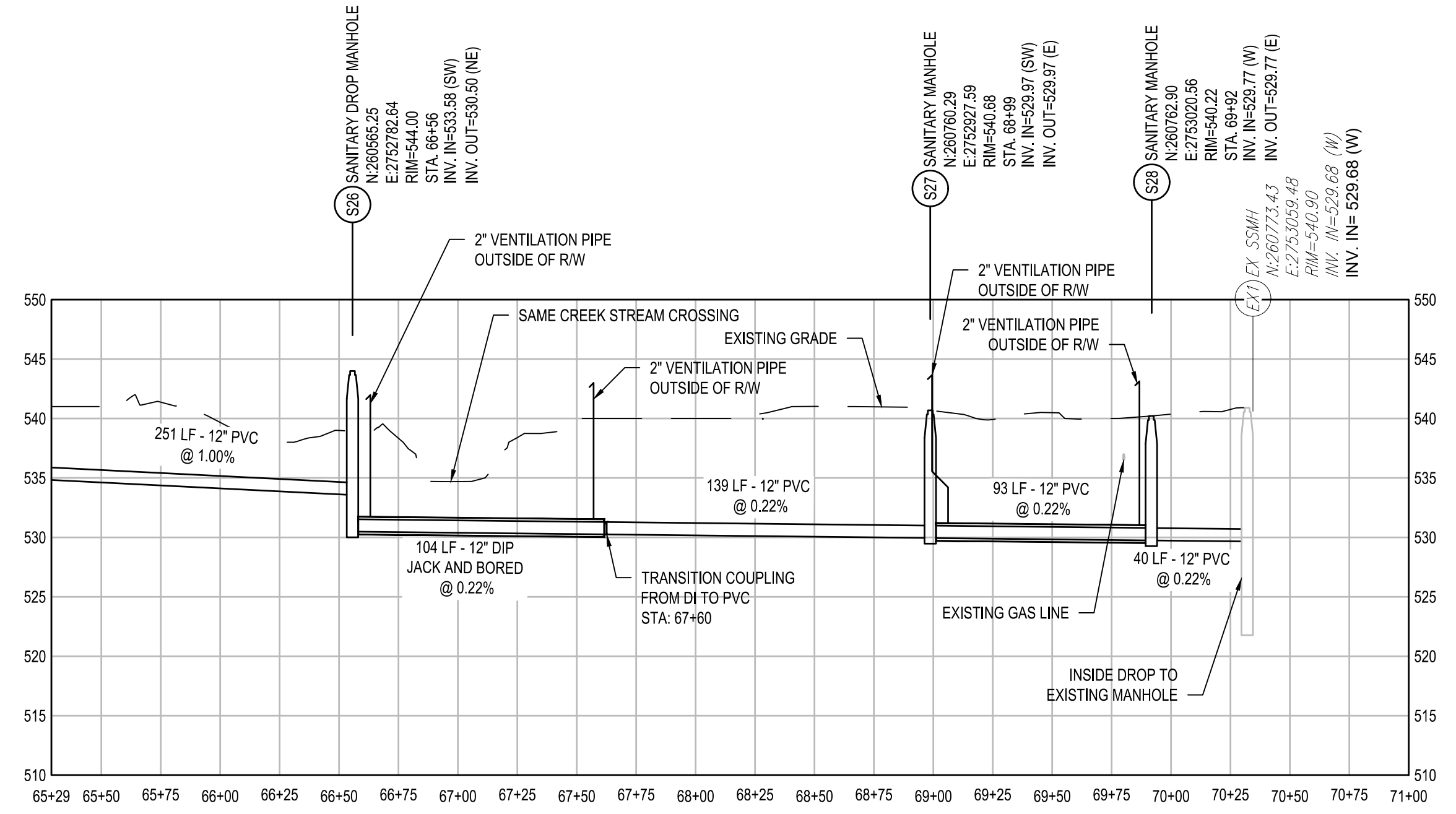
date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING

PORT MUSKOGEE
SUCCESS FLOWS FROM MUSKOGEE
ISSUED FOR CONSTRUCTION

MUSKOGEE, OKLAHOMA	
SOUTHSIDE SEWER IMPROVEMENTS UTILITY PLAN & PROFILE	
project	contract
156823	---
drawing	rev.
CU105	A
sheet 21	of 25 sheets
file 156823-CU101-UTILITY PLAN & PROFILE.DWG	



UTILITY PLAN
SCALE: 1" = 50'



SANITARY SEWER STA 65+29 TO 71+00 PROFILE
HORIZ: 1" = 50'
VERT: 1" = 10'

GENERAL NOTES

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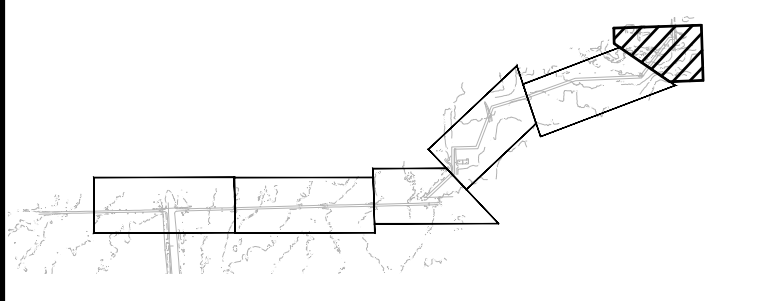
SITE LEGEND

GRAVEL		LIMITS OF DISTURBANCE	
JACK AND BORE BORING/ RECEIVING PIT		PROPOSED SANITARY UTILITY EASEMENT	
PERMANENT SEEDING		TEMPORARY CONSTRUCTION EASEMENT	
CONCRETE PAVEMENT			

no.	date	by	ckd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
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KEY PLAN
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757-546-2056
CA #421

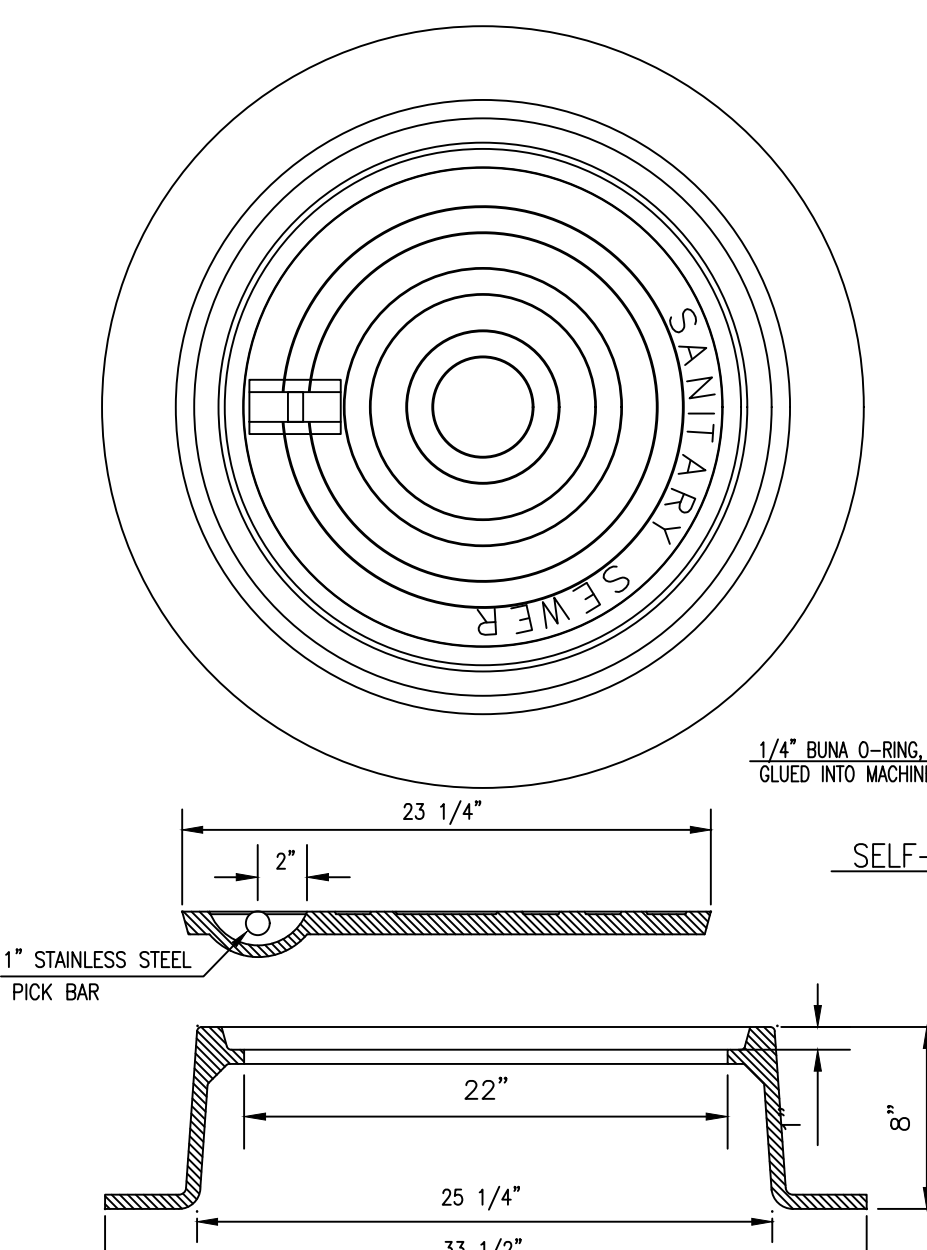
date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING



project 156823		contract ---	
drawing 156823-CU101-UTILITY PLAN & PROFILE.DWG		rev. ---	
sheet 22 of 25 sheets		sheet --- of --- sheets	
sheet title: CU106 - A			

WATERTIGHT MANHOLE FRAME & COVER

NEENAH R-1916-D, WITH BOLTED LIDS
OR AN APPROVED EQUAL
TOTAL WEIGHT 335 POUNDS

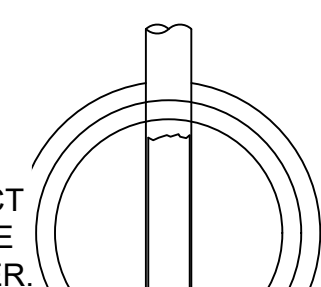


STANDARD MANHOLE FRAME & COVER

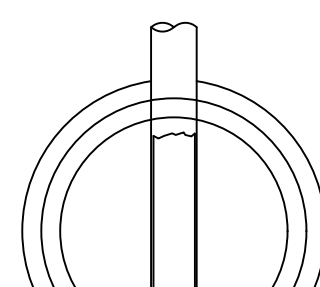
NEENAH R-1797, WESTERN IRON WORKS NO. 300-22
OR AN APPROVED EQUAL TOTAL WEIGHT 300 POUNDS

NOTES

1. THE STRENGTH OF THE CONCRETE MATERIAL TO BE USED TO CONSTRUCT MANHOLES SHALL BE 3000 PSI OR GREATER.



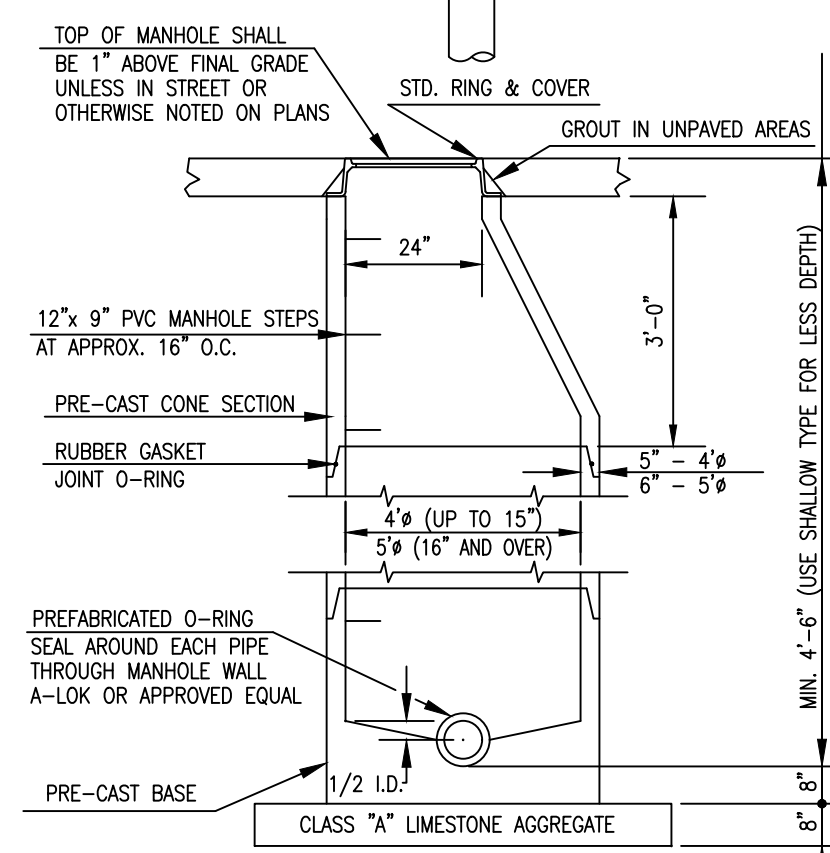
PREFABRICATED O-RING SEAL AROUND EACH PIPE THROUGH MANHOLE WALL A-LOK OR APPROVED EQUAL



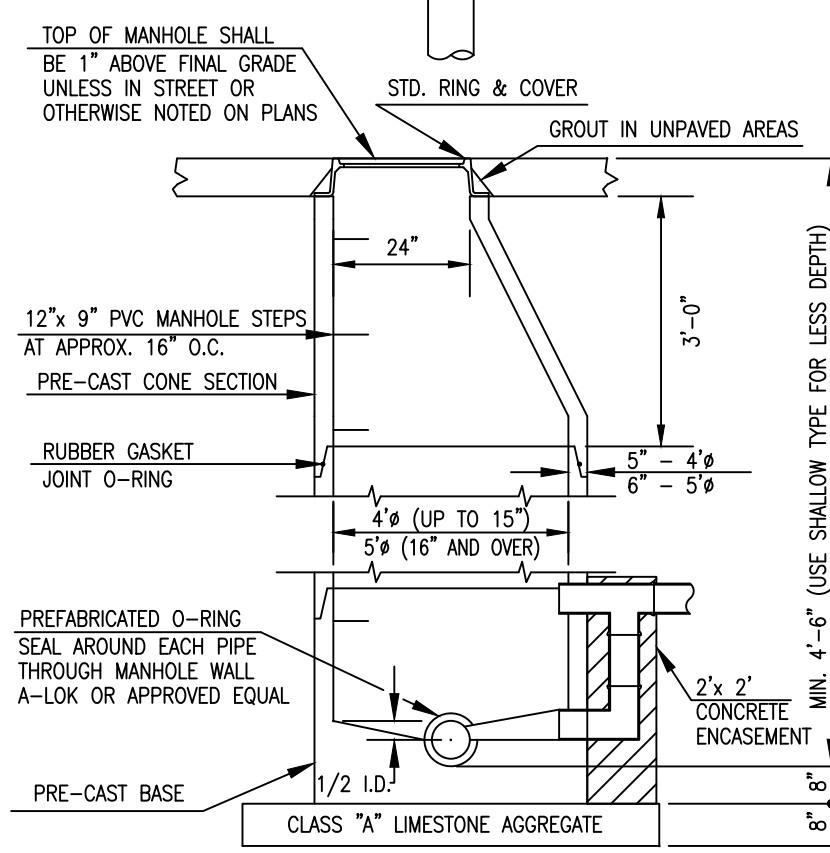
PREFABRICATED O-RING SEAL AROUND EACH PIPE THROUGH MANHOLE WALL A-LOK OR APPROVED EQUAL



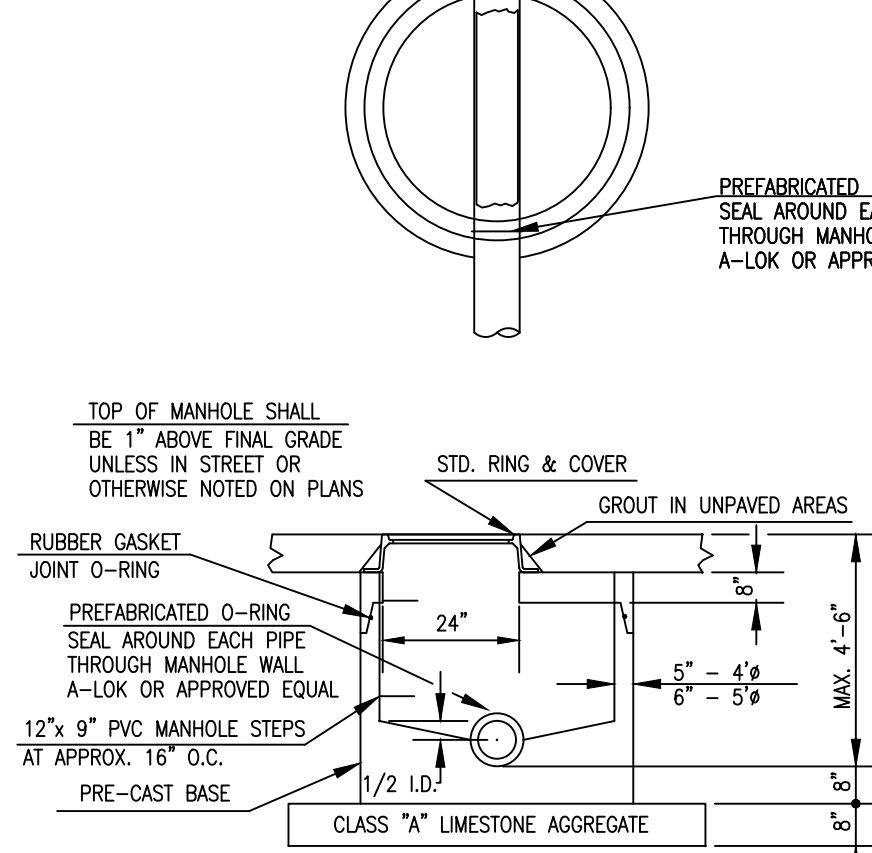
PREFABRICATED O-RING SEAL AROUND EACH PIPE THROUGH MANHOLE WALL A-LOK OR APPROVED EQUAL



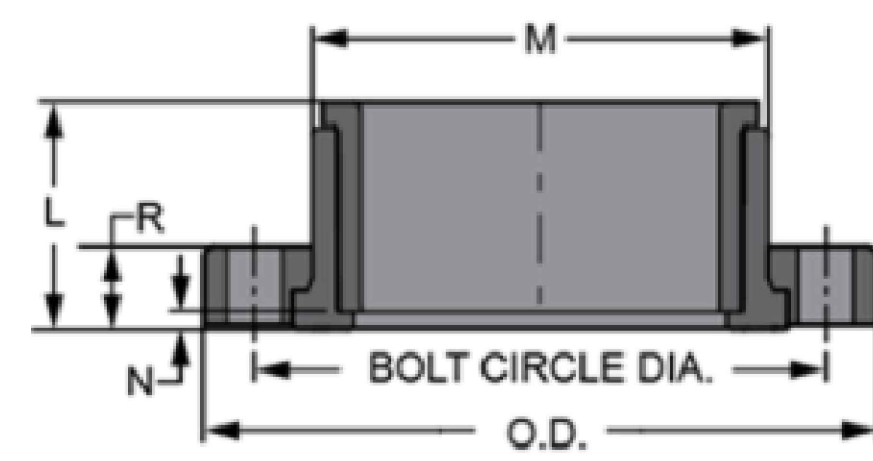
STANDARD PRECAST CONCRETE MANHOLE



STANDARD PRECAST CONCRETE DROP MANHOLE (WHEN DROP IS 2'-0" OR MORE)



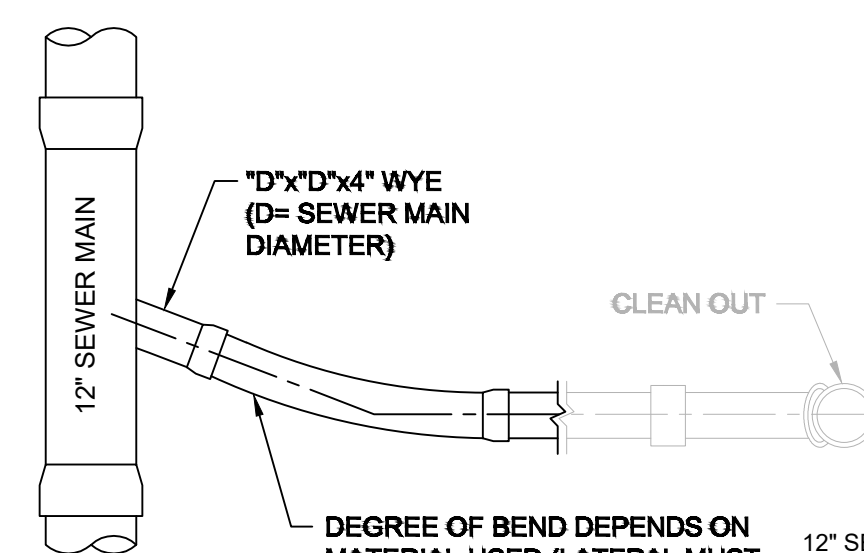
SHALLOW PRECAST CONCRETE MANHOLE



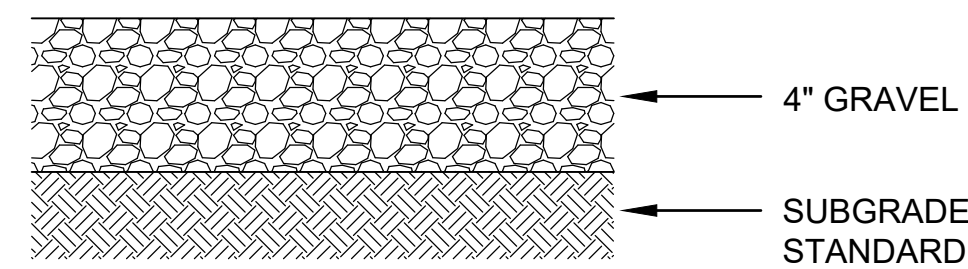
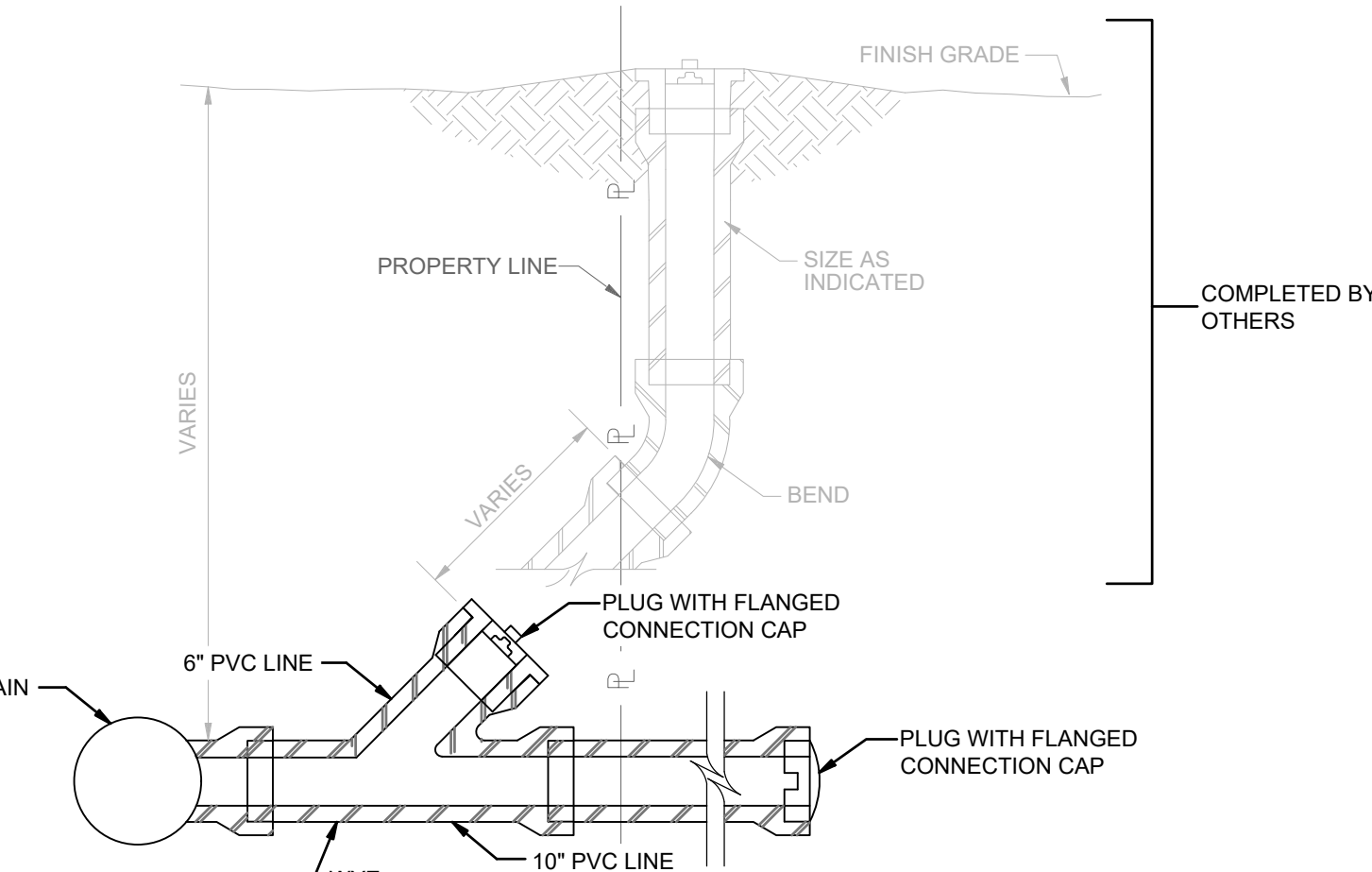
NOTES

1. CONTRACTOR TO PLUG END OF 6" LINE WITH FLANGED CONNECTION CAP OR APPROVED AS EQUAL.

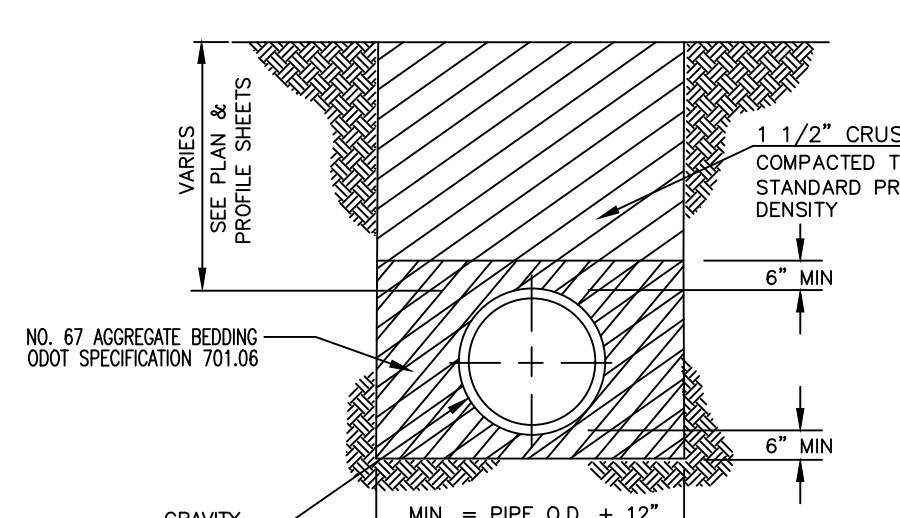
FLANGED CONNECTION CAP NOT TO SCALE



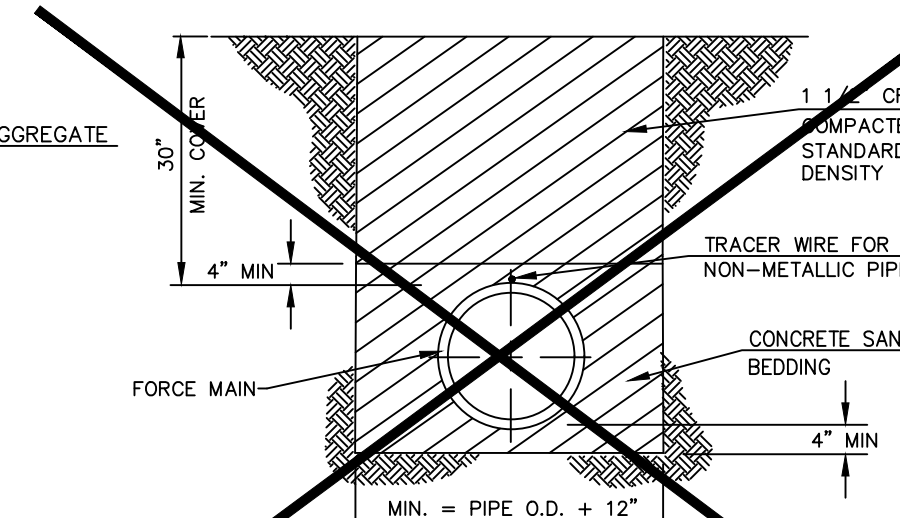
SEWER LATERAL WYE CONNECTION NOT TO SCALE



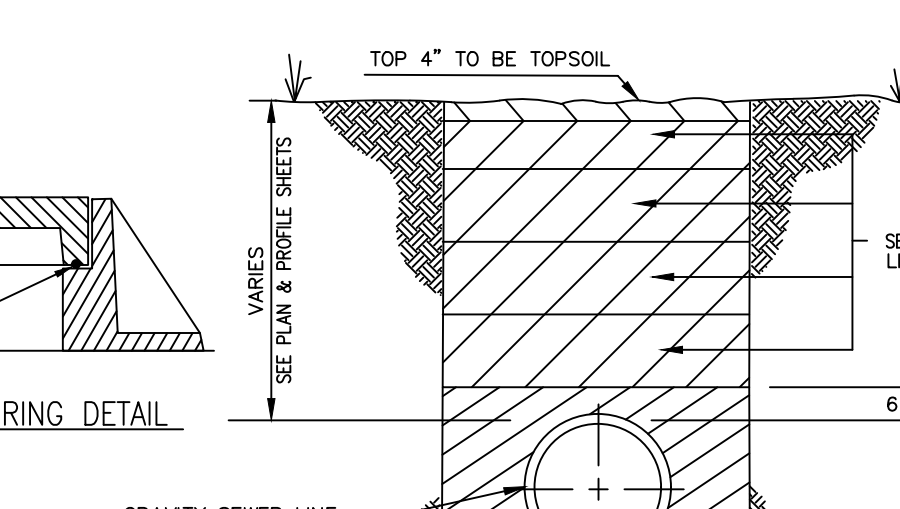
GRAVEL AREA SECTION NOT TO SCALE



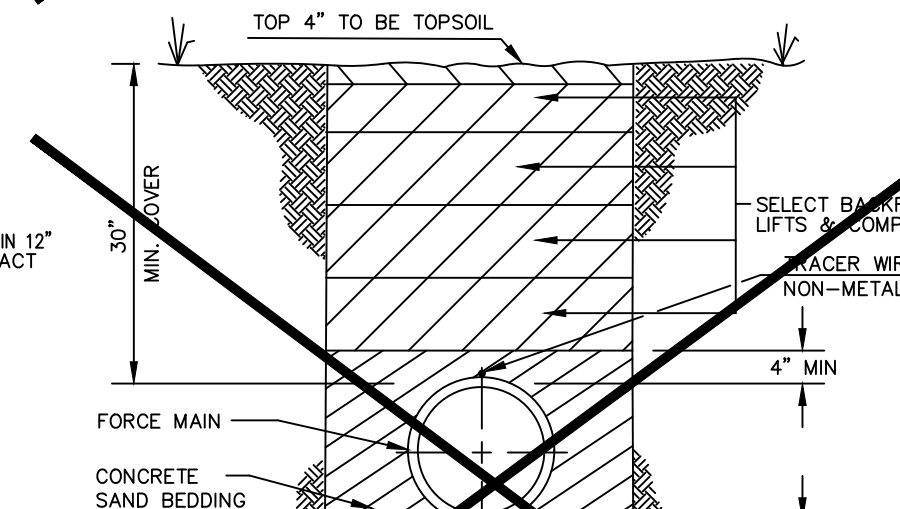
GRAVITY SEWER BEDDING DETAIL



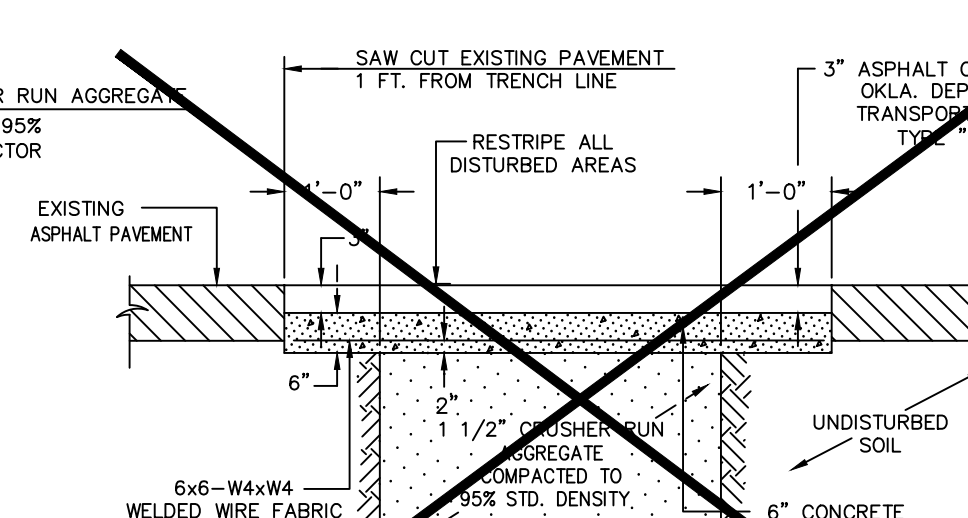
FORCE MAIN BEDDING DETAIL



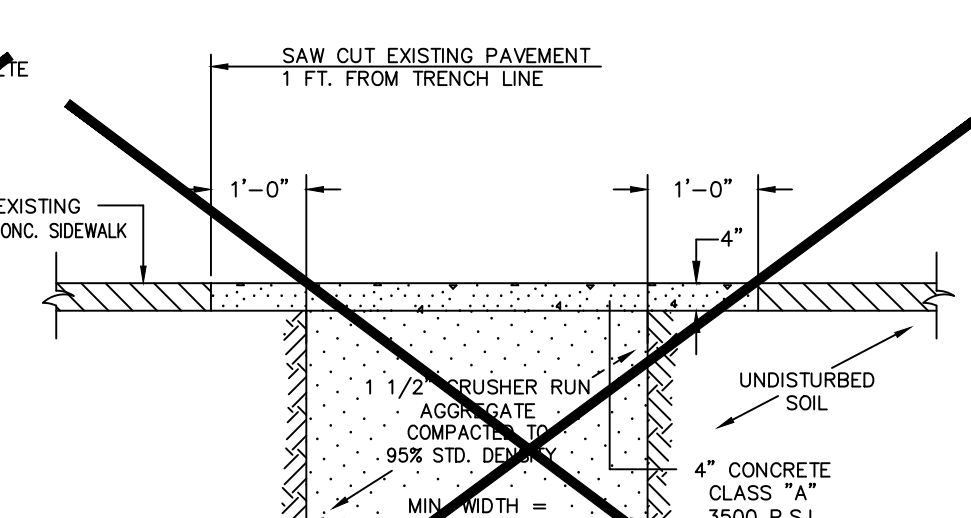
OPEN AREAS



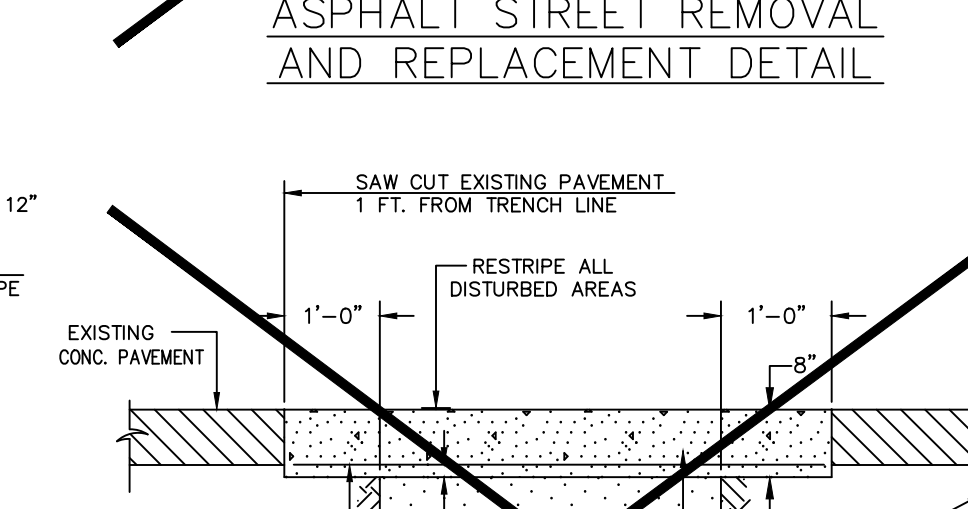
OPEN AREAS



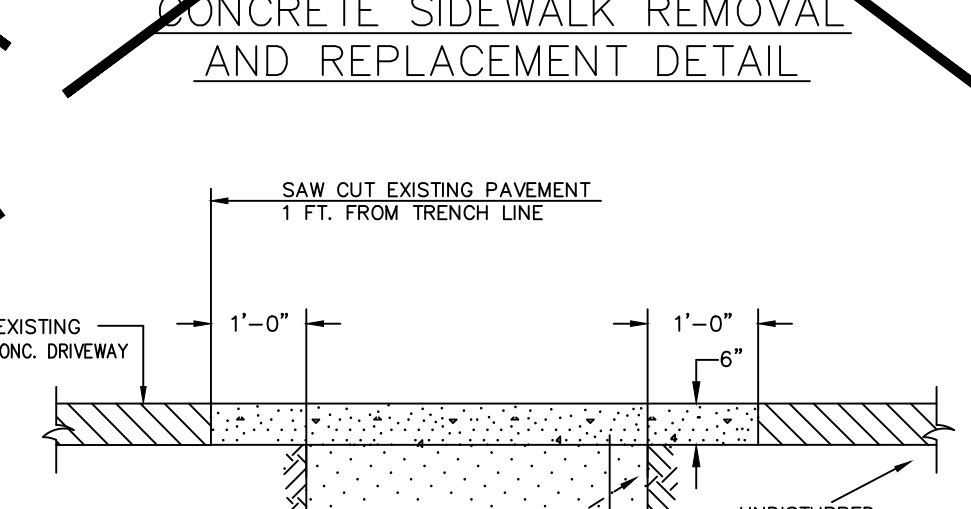
ASPHALT STREET REMOVAL AND REPLACEMENT DETAIL



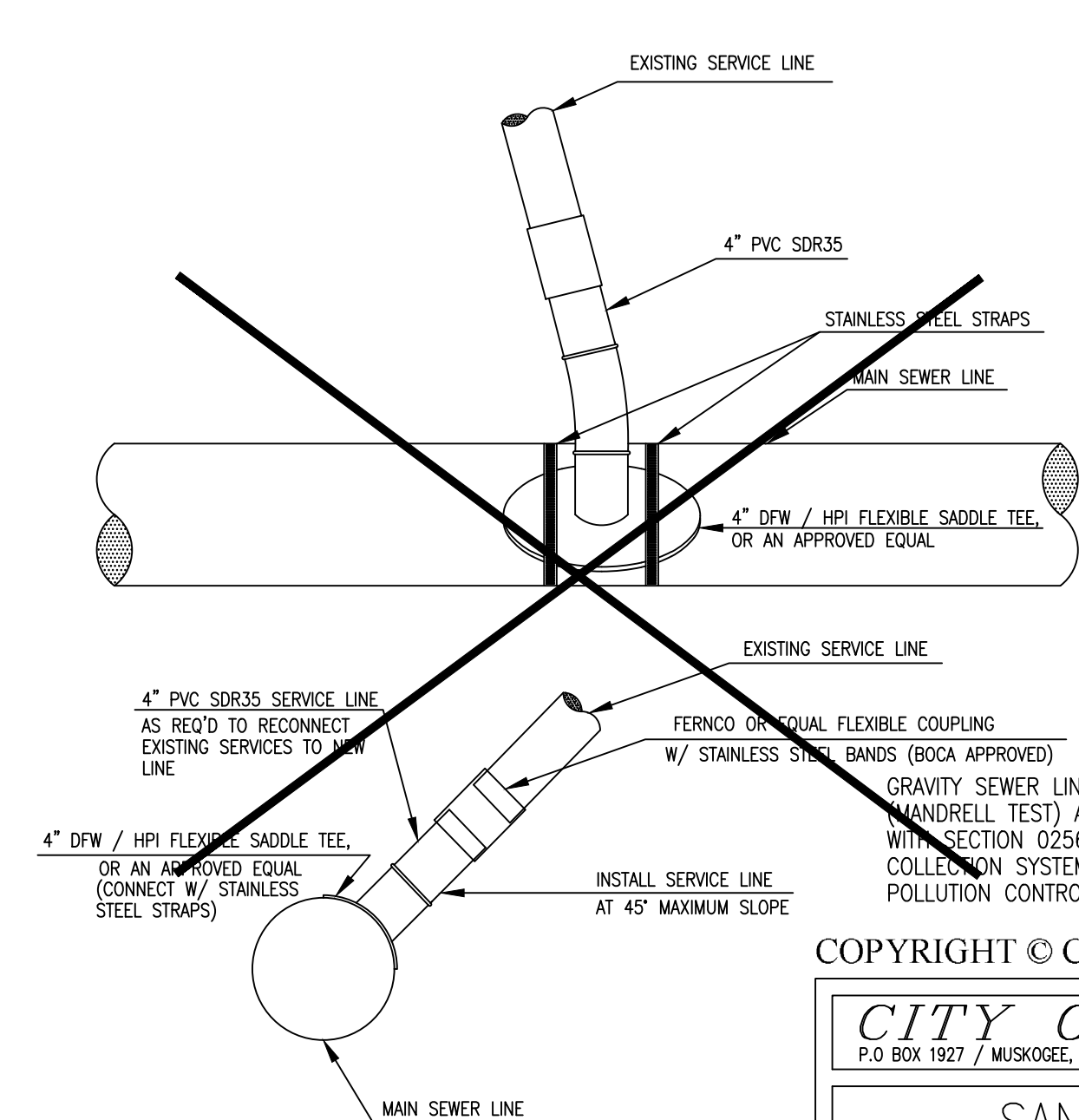
CONCRETE SIDEWALK REMOVAL AND REPLACEMENT DETAIL



CONCRETE STREET REMOVAL AND REPLACEMENT DETAIL



CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT DETAIL



SERVICE LINE RECONNECTION DETAILS

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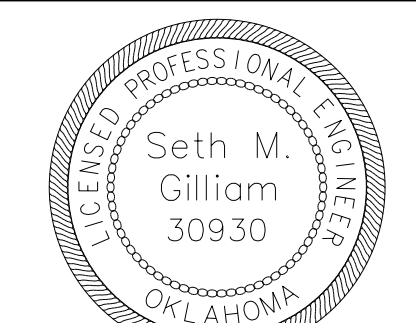
CITY OF MUSKOGEE
P.O. BOX 1927 / MUSKOGEE, OKLAHOMA 74402-1927 / (918) 684-6232

SANITARY SEWER STANDARD DETAILS

PROJECT NUMBER: _____

REVISED	DATE	SHEET	OF
6/9/93	8/94	04/2000	
1/94			

no.	date	by	ckd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION



Oklahoma License No. 30930
Issued: 02/28/2019
Expires: 02/28/2026
December 8, 2024

BURNS MEDONNELL

1317 EXECUTIVE BLVD, SUITE 300
CHESAPEAKE, VA 23320
757-546-2056
CA #421

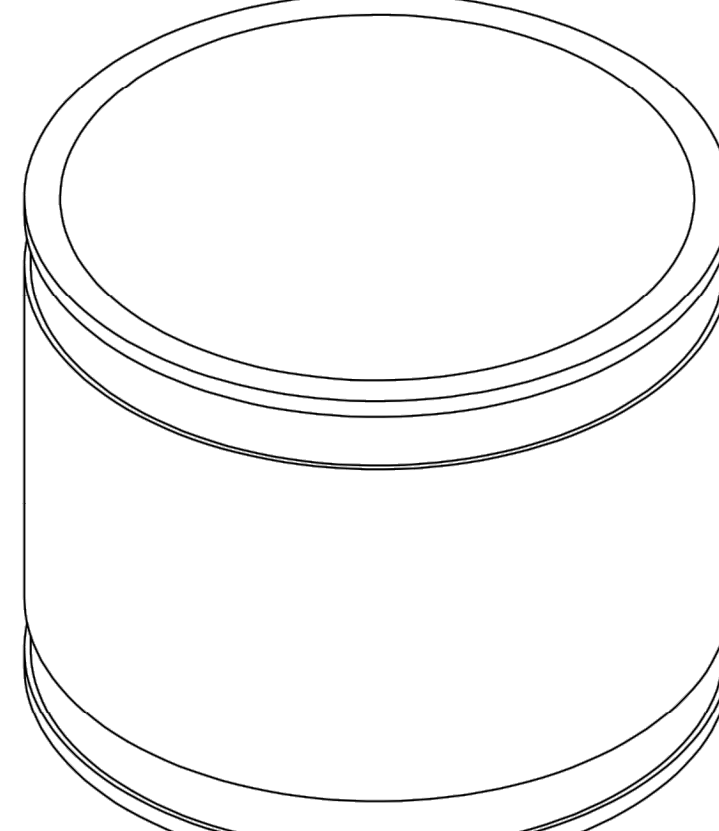
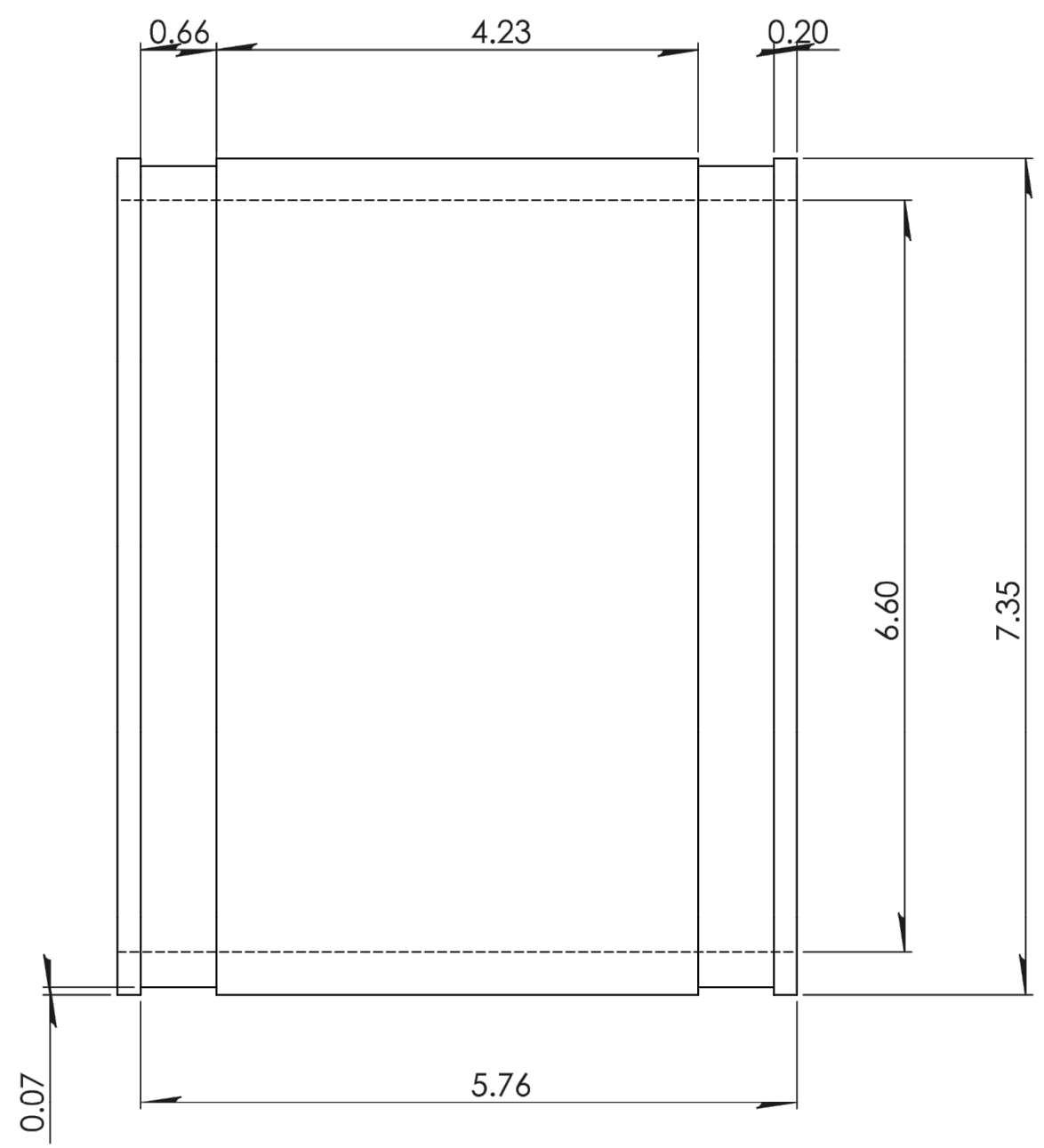
date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING

PORT MUSKOGEE
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MUSKOGEE, OKLAHOMA

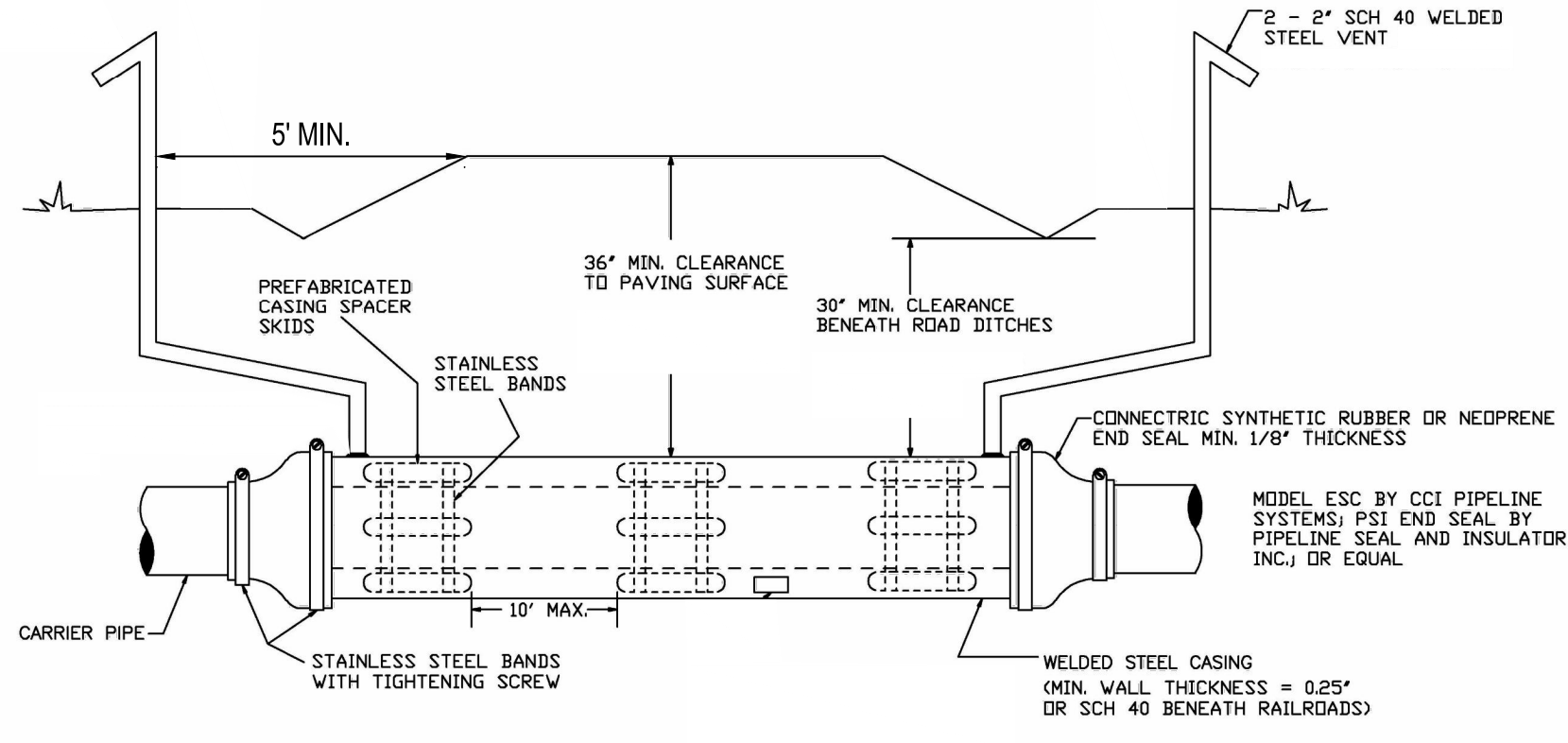
SOUTHSIDE SEWER IMPROVEMENTS SITE DETAILS

project	156823	contract	---
drawing	C-501	rev.	A

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file 156823-C-501-SITE DETAILS.DWG



PIPE SIZE inches	MINIMUM CASING OD, inches					
	PVC SDR 26	PE	DIP	PVC C 905	PVC PROFILE PIPE	PVC C 900
4	8	8	10	NA	NA	10
6	10	10	12	NA	NA	12
8	14	12	16	NA	NA	14
10	16	14	18	NA	NA	16
12	18	16	20	NA	NA	18
14	NA	18	24	NA	NA	NA
15	24	NA	NA	NA	NA	NA
16	NA	20	24	NA	NA	NA
18	30	24	30	NA	NA	NA
20	NA	30	30	NA	NA	NA
21	36	NA	NA	NA	NA	NA
24	36	30	36	NA	NA	NA
27	42	NA	NA	NA	NA	NA
30	NA	36	42	NA	NA	NA
33	NA	48	48	NA	NA	NA
36	NA	48	48	NA	NA	NA
42	NA	48	54	NA	NA	NA
48	NA	60	60	NA	NA	NA
54	NA	64	72	NA	NA	NA



STANDARD BORE AND CASING DETAIL

- NOTE:**
1. GROUTED END SEALS ARE NOT ACCEPTABLE.
 2. DO NOT PACK OR FILL ANNULAR SPACE BETWEEN CARRIER PIPE AND CASING.
 3. EACH BORING MUST CONFORM TO ANY ADDITIONAL REQUIREMENTS THAT MAY BE CONTAINED IN A PERMIT ISSUED BY AN ENTITY OTHER THAN THE CITY OF PONCA CITY THAT AUTHORIZES THE BORING.
 4. FOR OTHER PIPING MATERIALS AND/OR NOT USED BELL AND SPIGOT JOINTS, THE CASING SHALL BE SIZED TO PROVIDE AT LEAST 3" CLEAR SPACE BETWEEN THE OUTSIDE DIAMETER OF THE JOINT AND THE INSIDE DIAMETER OF THE CASING.

- *Part Includes:**
- Clamp: Part Number 104-300, 2 pcs.
 - Clamp: Part Number 116-300, 2 pcs.
 - Shear Ring: Part Number SRC-46, 1 pc.
 - Reducer: Part Number 13.200-12.600R, 1 pc.
 - See additional drawings for these parts.

Part Weight	6.92 lbs.
Min/Max Temp.	-30/140 Degrees F
Pressure Tested	4.3 PSI
Material	Flexible PVC 60 Duro
Installation Torque	60' Lbs.
Conforms to ASTM	D5926, C1173
Box Quantity	
Clamps used	300 Series



TOLERANCES: X= Fractional ± .XX= ±.060 .XXX= ±.032 ANG.= ±0.5° UNLESS OTHERWISE SPECIFIED	DESCRIPTION: Coupling 12" AC/Ductile Iron x 12" Cast Iron/Plastic
1051-1212RC	
DESIGNER: D. Brady	SCALE: not to scale
CHECKER:	DATE: 8/18/2008
DATE:	SHEET 1 OF 1

- CASING SKID SUPPORT**
1. PRE-FABRICATED PIPE SPACING SKIDS MUST HAVE A MINIMUM OF 4 POINTS OF CONTACT.
 2. A MINIMUM OF 2 SPACERS ARE REQUIRED, ONE AT EACH END AND DISTANCE BETWEEN SKID SUPPORTS SHALL NOT EXCEED 10 FEET.
 3. CASING SKID SPACERS SHALL BE NON-METALLIC, NON-WOODEN, INSULATING PRE-FABRICATED CASING SPACERS MANUFACTURED BY ADVANCE PRODUCTS & SYSTEMS, INC. OR CCI PIPELINE SYSTEMS, OR EQUAL.

NOTES

1. ALL ENCASED CROSSINGS ARE TO BE SEALED AT BOTH ENDS AND VENTED OUTSIDE OF ANY RIGHT OF WAY LINE WHEN APPLICABLE. SEALS AND CASINGS ARE TO BE WATERTIGHT.
2. AN 18" CASING MINIMUM IS REQUIRED ON ALL JACK AND BORED UTILITIES.

CASING AND VENTILATION PIPES

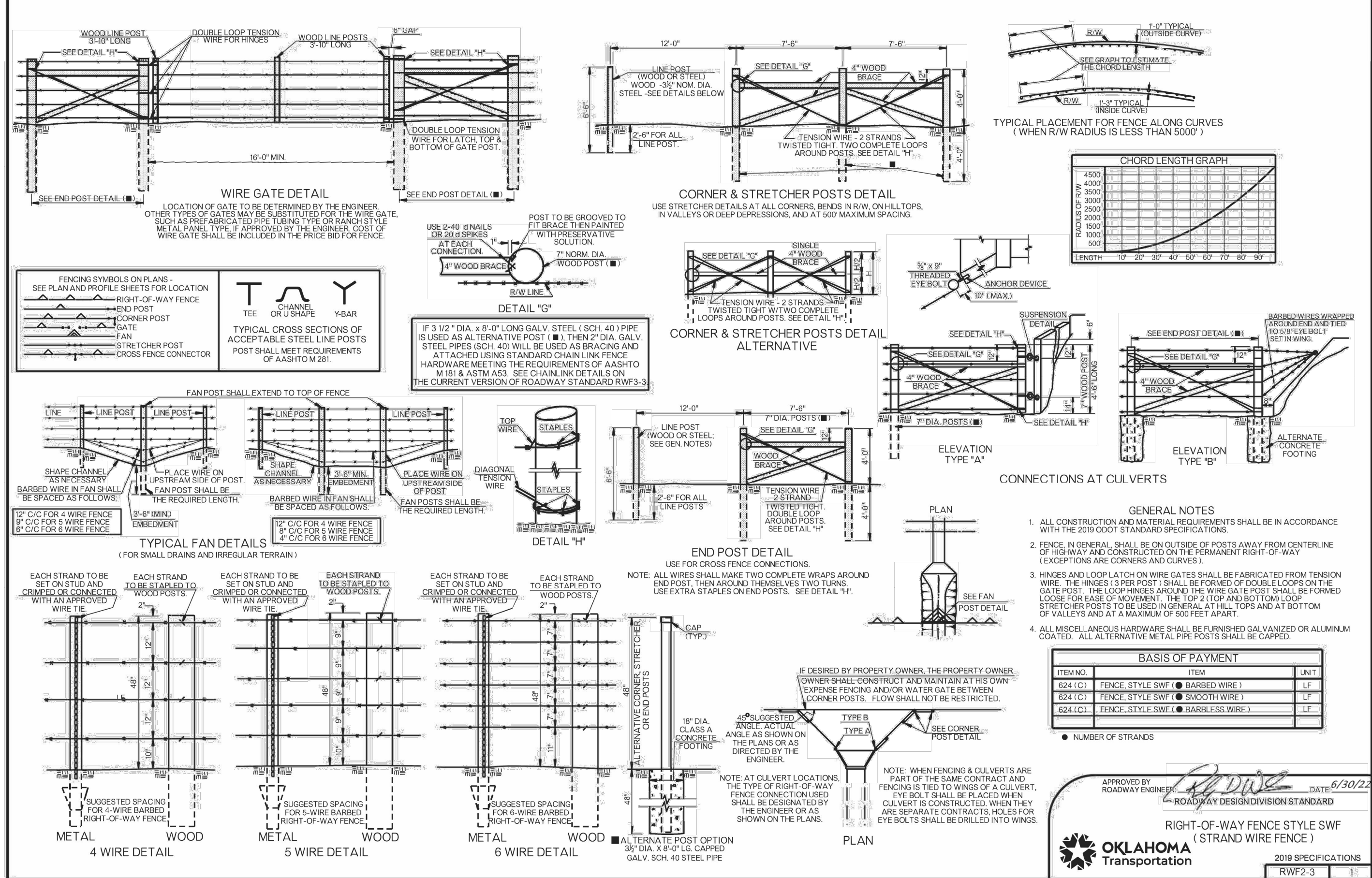
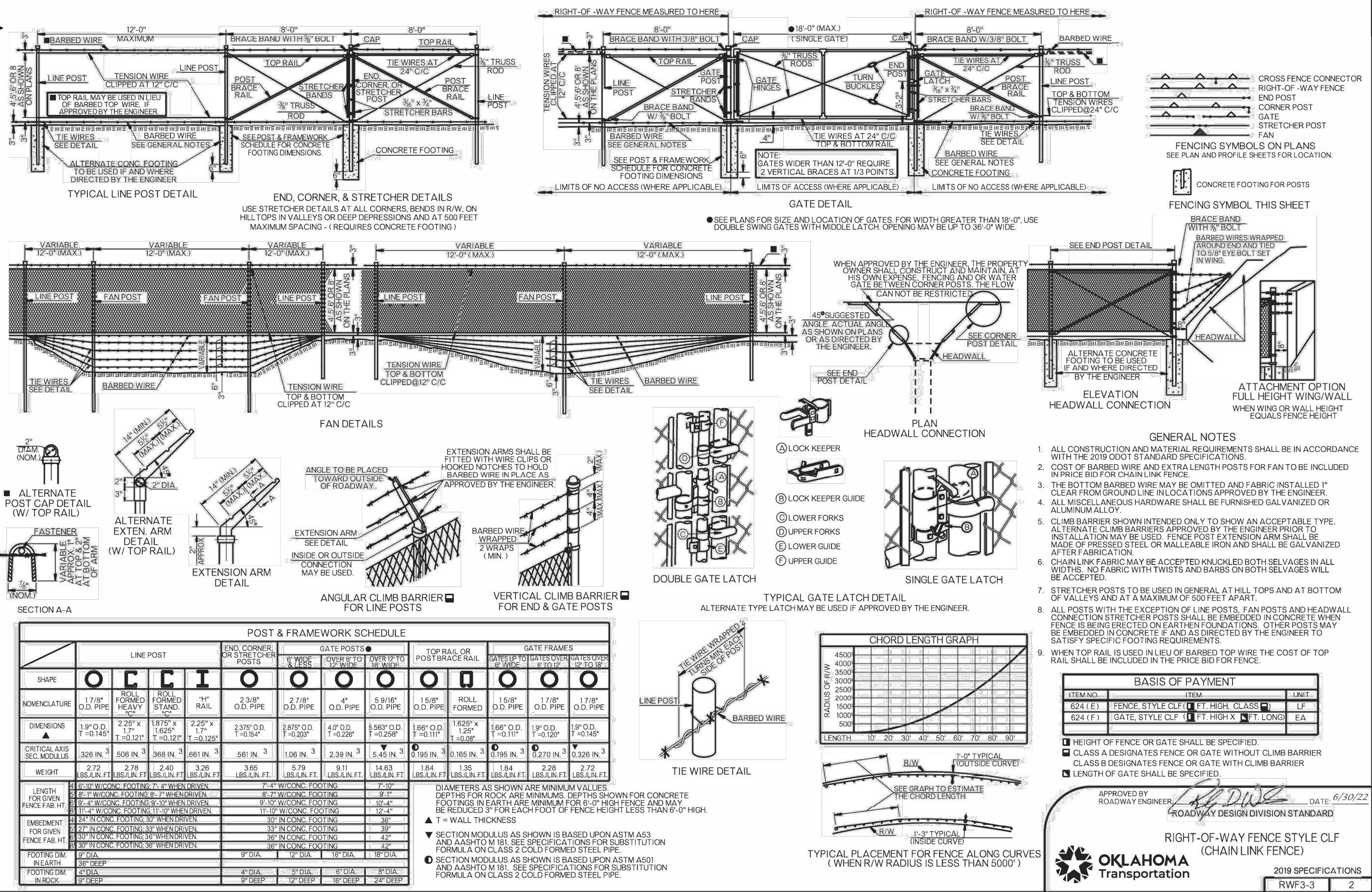
NOT TO SCALE

no.	date	by	ckd	description
0	10/03/24	EDS	BSC	ISSUED FOR CONSTRUCTION
A	12/08/24	EDS	BSC	ISSUED FOR CONSTRUCTION



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December 8, 2024



- NOTES**
1. CONTRACTOR TO REPLACE IN KIND FENCE TO NEAREST POST.

FENCE

NOT TO SCALE



date	DEC. 8, 2024	detailed	C. EVANCHO
designed	C. EVANCHO	checked	B. CHEWNING

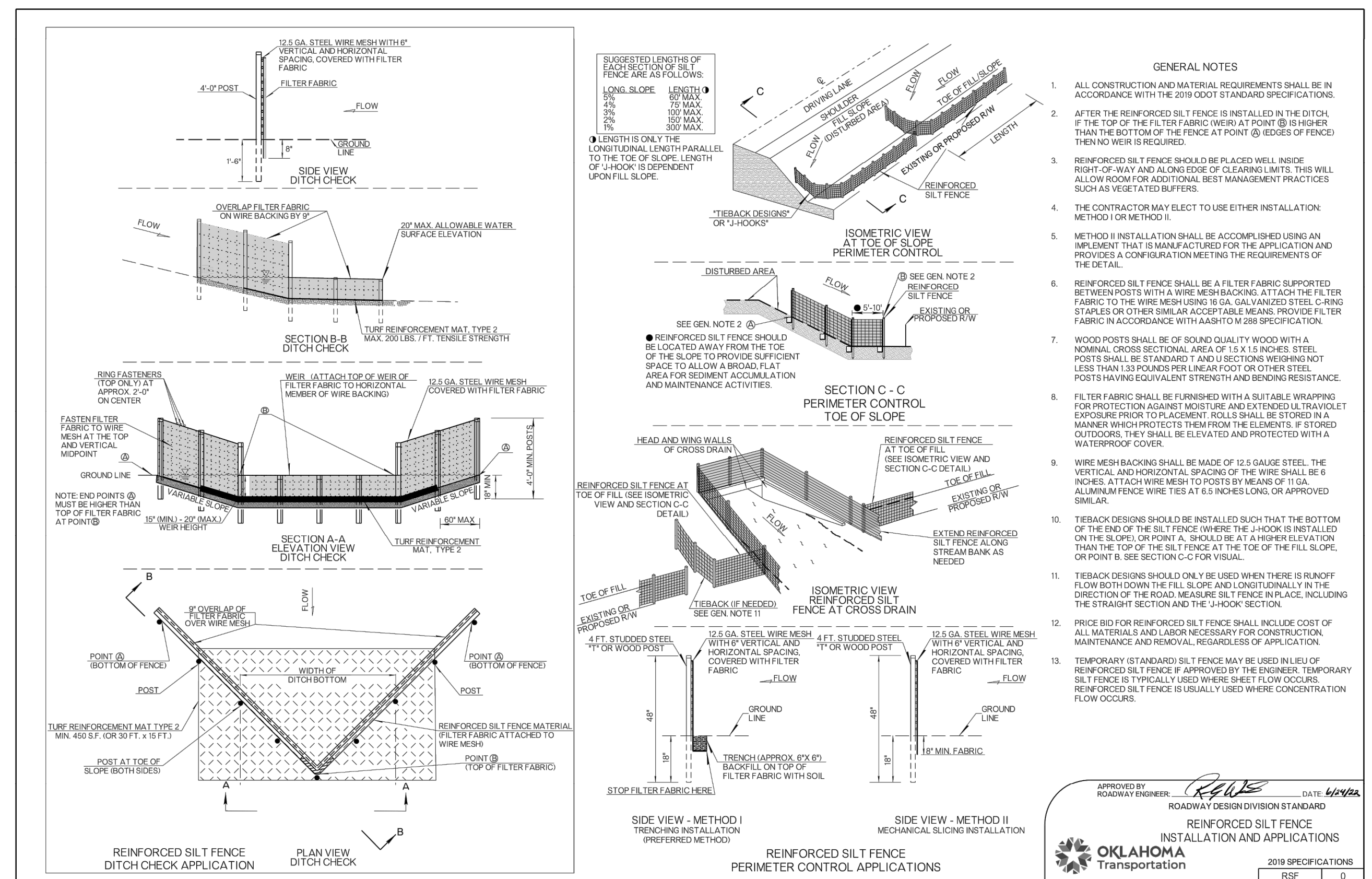
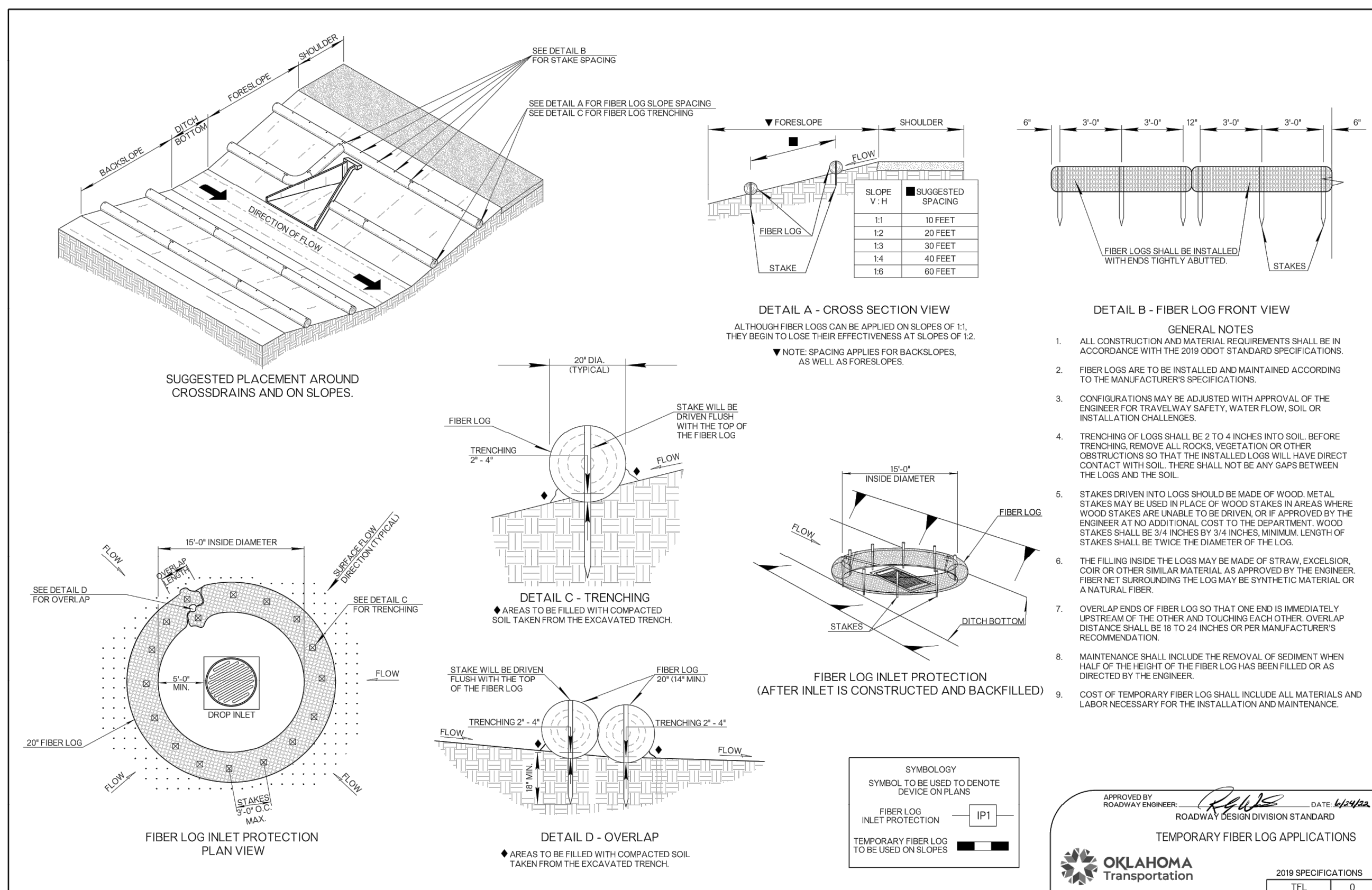


SUCCESS FLOWS FROM MUSKOGEE
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MUSKOGEE, OKLAHOMA
SOUTHSIDE SEWER IMPROVEMENTS SITE DETAILS

project	156823	contract	---
drawing	C-502	rev.	A

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735.03 MATERIAL FOR ROADSIDE DEVELOPMENT AND EROSION CONTROL

The Resident Engineer will accept seed lots if the seed report correlates with the seed tags of the same lot number.
Remove the seed and tags from the original tagged and sealed bag when approved by the Resident Engineer. After approval, mix, sack, and batch the seed as required by the Contract. Tag the seed with identification and mass. Mix or sack into batches under the Resident Engineer's supervision. Ensure the seeds do not contain Johnson grass seed.

735.03 MATERIAL FOR ROADSIDE DEVELOPMENT AND EROSION CONTROL

Table 735.1 Seed Specifications

Seed Type	PLS Index * minimum	Purity	% Germination	% minimum Weed Seeds
Weeping (Eragrostis curvula)	80	—	—	0.3
Millet, German foxtail (Setaria italica)	—	98	80	0.5
Native grasses (Mostly little bluestem) ¹	15	—	—	—
Oats (Avena sativa)	—	95	80	0.5
Rye (Secale cereale)	—	90	70	0.3
Ryegrass:				
Annual (Lolium multiflorum)	85	—	—	0.2
Perennial (Lolium perenne)	85	—	—	0.2
Sudan grass (Sorghum vulgare sudanense)	—	98	80	0.5
Switch grass (Panicum virgatum)	60	—	—	2.0
Wheat (Triticum aestivum)	—	96	80	0.1
Wheat grass, western (Agropyron smithii) ²	56	—	—	1.0

¹ Calculate the Pure Live Seed (PLS) Index in accordance with the equations following Table 735.1.
² The seed must come from Oklahoma, Texas, Kansas, or New Mexico.
³ Provide seed that is pre-chilled and treated with potassium nitrate in accordance with the Hays Treatment Technique.
⁴ Treat the seed with a nitrogen fixing inoculant, manufactured by commercial laboratories for the legume. Store and handle the inoculant in accordance with the manufacturer's directions.

Calculate the PLS Index from information on the seed tag, in accordance with the following equation:
$$PLS_p = \frac{P \times (G + FS)}{100}$$

where
 PLS_p = PLS Index of seed provided,
 P = Percent purity,
 G = Percent germination, and
 FS = Percent firm seed.

The Department defines the weight [mass] of seed in pounds [kilograms] of bulk seed. If the PLS Index of a seed lot exceeds the minimum PLS Index, specified in Table 735.1, "Seed Specifications," by at least 25 percent, adjust the amount of bulk seed for planting using the following equation:
$$BS_p = \frac{PLS_p \times BS_r}{PLS_r}$$

Table 735.1 Seed Specifications

Seed Type	PLS Index * minimum	Purity	% Germination	% minimum Weed Seeds
Bermuda grass:				
Common (Cynodon dactylon)				
Unhulled	80	—	—	0.2
Hulled	82	—	—	2.0
Guyvan variety (Cynodon dactylon):				
Unhulled	80	—	—	2.0
Hulled	82	—	—	2.0
Bluestem:				
Big (Andropogon gerardi) ¹	20	—	—	—
Caucassian (Andropogon caucasicus)	15	—	—	—
Little (Andropogon scoparius) ¹	15	—	—	—
Plains (Bothriochloa ischaemum)	30	—	—	1.0
Sand (Andropogon hallii) ²	20	—	—	—
Yellow (Andropogon ischaemum)	18	—	—	—
Brome, smooth (Bromus inermis)	70	—	—	2.0
Buffalo grass (Buchloe dactyloides) ³	55	—	—	—
Bur-clover (Medicago hupida, arabica or rigidula)	—	98	85	1.0
Clover:				
Crimson (Trifolium incarnatum)	—	95	85	0.5
Large hop (Trifolium procumbens) ⁴	—	95	85	0.5
Small hop (Trifolium dubium) ⁴	—	95	85	0.5
Drop seed, sand (Sporobolus cryptandrus)	70	—	—	2.0
Fescue, tall (Festuca arundinacea)	80	—	—	0.5
Gramma:				
Blue (Bouteloua gracilis) ⁵	25	—	—	—
Side-oots (Bouteloua curtipendula) ⁵	30	—	—	—
Indian grass (Sorghastrum nutans) ⁵	35	—	—	2.0
Lespedeza:				
Common (Lespedeza striata)	—	97	90	0.5
Korean (Lespedeza stipulacea) ⁴	—	97	90	0.5
Roundhead (Lespedeza capitata)	—	97	90	0.5
Sericea (Lespedeza cuneata) ⁴	—	98	90	0.5
Love grass:				
Sand (Eragrostis trichodes) ⁶	65	—	—	0.5

no.	date	by	kcd	description
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date	DEC. 8, 2024	detailed	C. EVANCHO
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SOUTHSIDE SEWER IMPROVEMENTS ESC DETAILS
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