GENERAL NOTES

1. THE CONTRACTORS SHALL COMPLY WITH ALL TEXTRON AVIATION'S APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH TEXTRON STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS.

2. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT THEY WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.

3. AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316)-687-2470 OR 811 TO REQUEST THE LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA.

4. THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

TEXTRON AVIATION	
EAST CAMPUS EMERGENCY	1-316-515-6911
EAST CAMPUS NON-EMERGENCY (SECURITY DISPATCH)	1-316-515-5300
AT&T	1-800-246-8464
BLACK HILLS ENERGY	1-800-694-8989
CITY OF WICHITA WATER & SEWER	1-316-219-8921
CITY OF WICHITA STORMWATER	1-316-268-4090
CITY OF WICHITA TRAFFIC	1-316-268-4034
COX COMMUNICATIONS	1-888-249-3530
KANSAS GAS SERVICE	1-888-482-4950
EVERGY	1-800-544-4857

5. THE CONTRACTOR SHALL GIVE OWNER MINIMUM OF SEVEN (7) DAYS ADVANCE NOTICE PRIOR TO THE START OF CONSTRUCTION.

6. THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION AT THE CONTRACTORS EXPENSE.

7. ALL ELEVATIONS SHOWN ARE NAVD88 DATUM. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.

8. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE DRAWINGS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL HAVE ALL BURIED LINES LOCATED AND FLAGGED IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND REVIEW ANY BURIED LINES LOCATED IF CONFLICTS EXIST. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

9. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITIES THAT ARE IN POTENTIAL CONFLICT WITH THE PROPOSED IMPROVEMENTS. THE UTILITY LOCATES SHALL BE PERFORMED PRIOR TO THE START OF CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

11. EASEMENTS AND RIGHTS-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHTS-OF-WAY DESIRED TO USE IN COMPLETING THE WORK.

12. THE CONTRACTOR SHALL CONTAIN THEIR OPERATIONS TO PERMIT LOCAL AND EMERGENCY TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT ALL TIMES. THE CONTRACTOR SHALL UTILIZE WARNING SIGNS, FLASHING LIGHTS, BARRICADES, AND FLAGMEN IN COMPLIANCE WITH THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

13. THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND DAWNITA REINHARDT AT 316-650-0740 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES, FLOODWAYS, OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED DISPOSAL LOCATION.

15. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, LANDSCAPING, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

16. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE EROSION CONTROL DEVICES DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.

17. THE CONTRACTOR SHALL TAKE CARE TO PREVENT SILT AND DEBRIS FROM ENTERING ANY STORM DRAINAGE SYSTEM DURING CONSTRUCTION. PIPES OR STRUCTURES WHICH CONTAIN MATERIALS FROM THE CONTRACTORS ACTIVITIES SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR, AT THEIR OWN EXPENSE, PRIOR TO THE FINAL INSPECTION.

18. RECONSTRUCTION OF EROSION CONTROL MEASURES WHICH ARE DESTROYED BY WIND, FLOOD, FIRE, OR BY THE ACTIONS OF THE CONTRACTOR OR OTHERS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST. WHERE ADJUSTMENTS IN QUANTITIES ARE REQUIRED BY FIELD CONDITIONS, THERE SHALL BE NO ADJUSTMENT IN UNIT PRICE.

19. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLANTED WITH GRASS AND FERTILIZED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. REFERENCE LANDSCAPE.

20. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF PERMANENT SEEDING/SODDING IS APPLIED. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.

21. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING. STAKING AND BENCH MARKS DESTROYED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

22. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED UTILITY SERVICE TO ADJACENT FACILITIES DURING CONSTRUCTION, UNLESS OTHERWISE APPROVED BY OWNER.

23. WRITTEN REQUEST TO THE OWNER WILL BE REQUIRED 2 WEEKS PRIOR TO A SCHEDULED UTILITY OUTAGE. THE FIRE DEPARTMENT MUST BE NOTIFIED OF ANY FIRE HYDRANTS OR WATER MAINS TAKEN OUT OF SERVICE.

24. SITE ACCESS PROCEDURES AND REQUIREMENTS TO THE PLANT SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PRIVATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION. FINDINGS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. ANY DIMENSIONAL CONFLICTS SHALL BE RESOLVED PRIOR TO CONSTRUCTION.

26. A FULL DEPTH SAW CUT OR A SAW CUT UP TO 12 INCHES (MAX.) THE EXISTING CONCRETE PAVEMENT SHALL BE PROVIDED AT LOCATIONS WHERE PARTIAL REMOVAL OF THAT PAVEMENT IS REQUIRED. SAWED JOINT TO FACILITATE REMOVAL WITHIN THREE FEET OF EXISTING JOINTS WILL NOT BE PERMITTED AND FOR SUCH INSTANCES THE LIMITS OF REMOVAL SHALL EXTEND TO THE EXISTING JOINT. SEE SHEET CP501 FOR PAVEMENT REPAIR DETAIL.

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SITE DURING CONSTRUCTION WITH TEMPORARY FENCING OR OTHER APPROVED METHODS.

28. FINISHED GRADES SHOWN ON PLANS ARE TO BE THE FINAL ELEVATIONS OF ALL WORK, INCLUDING PAVEMENT.

29. EXISTING PAVING, NOT SHOWN TO BE REMOVED OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED TO MATCH EXISTING OR BETTER.

30. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY ABANDONED UTILITIES ENCOUNTERED DURING CONSTRUCTION.

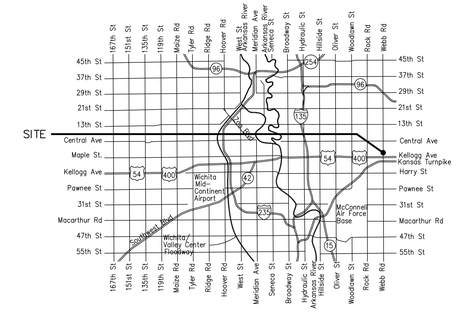
AS-BUILT PLANS

SANITARY SEWER
to serve
TEXTRON AVIATION EAST CAMPUS
Q-LOT PARKING LOT AND ACCESS DRIVE
CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E. City Engineer
Project Number
2023-030432 PPS (53030982)

Baughman Job # 25-07-E172

MABCD REVIEWER:



Vicinity Map

Construction Began 22 August 2025
Construction Ended 22 August 2025

SHEET INDEX

SHEET NO. CU401	PPS COVER SHEET
SHEET NO. CU402	PPS KEY MAP
SHEET NO. CU450	MANHOLE ADJUSTMENT DETAIL
	EROSION CONTROL BMP DETAILS

(available on the City's website at https://www.wichita.gov/PWU/Pages/Regulations.aspx)

New Material Used:
* None.
* Reused existing SS Manhole Frame & Lid.

KEY MAP
SEE SHEET CU302

HORIZONTAL CONTROL
SEE SHEET CU302

BENCHMARKS
SEE SHEET CU302

Utility Contractor: K&B Dirt Works
Superintendent: Scott Bratcher
Inspection: Baughman Company
Staking: Baughman Company
Inspector: Jeff Priddle
As-Built Plans: Larry Powell & Jeff Priddle
October 27, 2025

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS
ENGINEERING DIVISION

1

Engineering Shawn Mellies – 06/02/25
Utilities SCOTT MACEY – 06/02/25

NOTE TO CONTRACTORS

Inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said Inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer in the state of Kansas. No work shall be performed by the Contractor without such inspection nor shall any work be commenced without written authorization by City Engineering. All Construction and Materials shall comply with the current City of Wichita Specifications and Standards and Special Provisions. (on file and available at Wichita.gov).

An approved copy of these plans signed by City staff are required on-site.

1 JUNE 2025

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

JOSHUA GOLKA LICENSED 24136 06/04/2025 KANSAS PROFESSIONAL ENGINEER

BY TEXTRON AVIATION

	Date	Description
1	06/04/2025	CITY COMMENTS

EAST CAMPUS
Q-LOT PARKING LOT AND
ACCESS DRIVE
WICHITA, KS

JOB NUMBER:	238003-025
DATE:	03/28/2025
DRAWN:	NCL
CHECKED:	JAG

CONSTRUCTION DOCUMENTS

PPS COVER SHEET

CU401
EAST CAMPUS

SAVED 6/4/2025 11:53:35 AM BY CHANCE.SWANEY
PLOTTED 6/4/2025 11:54:36 AM BY CHANCE SWANEY
U:\WICHITA-FACIL\2023\238003\025\MUNI\DRAWINGS\238003-025 CU401 PPS TITLE SHEET.DWG

BENCH MARKS

BM-201
ELEV: 1,369.65 (NAVD 88)
SQUARE CUT SOUTH CURB NORTH END PLANT III ±25' SOUTH OF
FIRE HYDRANT BFH 018

BM-202
ELEV: 1,363.67 (NAVD 88)
SQUARE CUT NEAR SOUTHEAST CORNER CURB INLET EAST SIDE
WEBB ROAD ±20' SOUTH OF
SOUTH EDGE OF DRIVE SOUTH SIDE PLANT III NORTHWEST OF
NORTHWEST CORNER PARKING
LOT Q

BM-203
ELEV: 1,358.37 (NAVD 88)
SQUARE CUT NORTHEAST CORNER CURB INLET EAST SIDE
WEBB ROAD NEAR SOUTHWEST
CORNER LOT Q NORTHWEST CORNER SOUTHERN STAR
ENCLOSURE

BM-204
ELEV: 1,365.41 (NAVD 88)
SQUARE CUT CENTER OF HEADWALL FOR DOUBLE 36" RCP
SOUTH AND WEST OF MIDDLE
OVERHEAD DOOR BUILDING 36 EAST OF EVACUATION AREA A-1

HORIZONTAL CONTROL POINTS

CP-101
N: 1,686,815.9763 E: 1,681,006.5152
1/2" BAR WITH PEC CONTROL POINT CAP
1. 9.67' WNW TO SQUARE CUT
2. 25' SSW TO TOP CENTER FIRE HYDRANT BFH 018
3. 4' N TO SOUTH EDGE CONCRETE DRIVE

CP-102
N: 1,686,087.5368 E: 1,680,982.2061
1/2" BAR WITH PEC CONTROL POINT CAP
1. 16.77' SSW TO SQUARE CUT NEAR SOUTHEAST CORNER OF INLET
2. 5' WNW TO 6" GUARD POST
3. 5.1' N TO SOUTH EDGE OF DRIVE

CP-103
N: 1,685,597.8415 E: 1,680,987.2427
1/2" BAR WITH PEC CONTROL POINT CAP
1. 8.7' NNW TO SQUARE CUT NORTHEAST CORNER CURB INLET
2. 3.3' E TO FENCE CORNER POST
3. 7.4' W TO EAST BACK OF CURB WEBB ROAD

CP-104
N: 1,685,945.8360 E: 1,681,483.0893
#4 BAR WITH PEC CONTROL POINT CAP
1. 15' SW TO EVACUATION ASSEMBLY AREA A-1 SIGN
2. 52' E TO SQUARE CUT CENTER OF HEADWALL
3. 4' NW TO EDGE OF ROAD ON CURVE

LEGEND

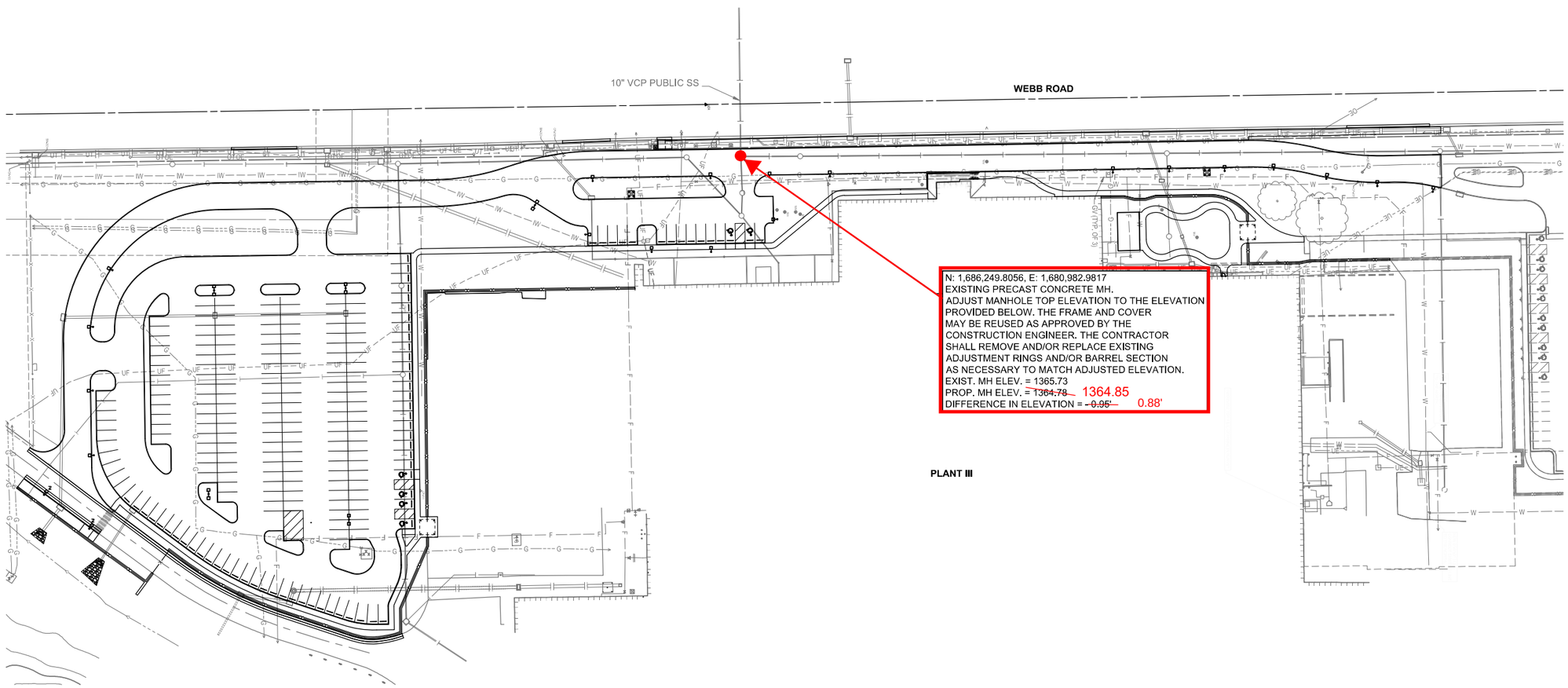
G	UNDG. GAS LINE
OT	OVHD. TELEPHONE LINE
UT	UNDG. TELEPHONE LINE
UF	UNDG. FIBER OPTIC
	BUILDING LINE
	SANITARY SEWER PIPE
W	WATER LINE
X	FENCE
	STORM SEWER PIPE
	GENERIC FLOWLINE
	ROAD CENTERLINE
OE	OVERHEAD ELECTRIC LINE
U E	UNDERGROUND ELECTRIC LINE
ELEV	MAJOR CONTOUR
ELEV	MINOR CONTOUR
CP389	HORIZONTAL CONTROL POINT
BM387	BENCH MARK
T	TELEPHONE BOX
T	TELEPHONE MANHOLE
CO	CLEANOUT
WV	WATER VALVE
WM	WATER METER
FH	FIRE HYDRANT
Sign	SIGN
	TRAFFIC SIGNAL POLE
J	TRAFFIC SIGNAL JUNCTION BOX
MW	MONITORING WELL
GP	GATE POST
GV	GAS VALVE
GR	GAS RISER
	ELECTRICAL TRANSFORMER
H	ELECTRICAL HANDHOLE
E	ELECTRICAL MANHOLE
LP	ELECTRICAL LIGHT POLE

	DECIDUOUS TREE
	CONIFEROUS TREE
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
VCP	VITRIFIED CLAY PIPE
SDC	STORM WATER CURB INLET
SSM	SANITARY SEWER MANHOLE
CONC	CONCRETE
C&G	CURB AND GUTTER
FL	FLOW LINE
FFE	FINISH FLOOR ELEVATION
RECORD	INFORMATION SHOWN (LOCATION, SIZE, MATERIAL, ETC.) IS FROM RECORD DOCUMENTS. THIS INFORMATION WAS NOT PHYSICALLY MARKED OR LOCATED ON SITE

MABCD REVIEWER:

N

0 60' 120'



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JOSHUA GOLKA
LICENSED
24136
03/28/2025
KANSAS
PROFESSIONAL ENGINEER

TEXTRON AVIATION BY

Date	Description

EAST CAMPUS
Q-LOT PARKING LOT AND
ACCESS DRIVE
WICHITA, KS

JOB NUMBER:	238003-025
DATE:	03/28/2025
DRAWN:	DSB
CHECKED:	JAG

CONSTRUCTION DOCUMENTS

PPS KEY MAP

CU402

EAST CAMPUS

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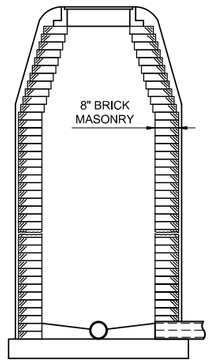
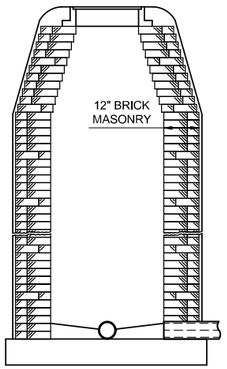
PLOTTED 3/28/2025 9:59:19 AM BY CHANCE.SWANEY
U:\WICHITA-FACIL\2023\238003\025\MUNI\DRAWINGS\238003-025 CU402 KEY MAP.DWG



SINGLE WALL MASONRY

TYPE A

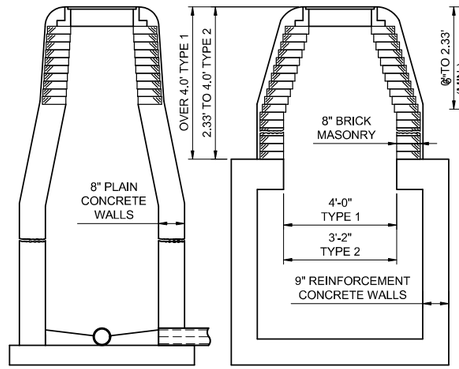
NOT TO SCALE



DOUBLE WALL MASONRY

TYPE B

NOT TO SCALE



CAST IN PLACE
(TYPE D IS PLASTIC LINED AND HAS BRICK DRAW)

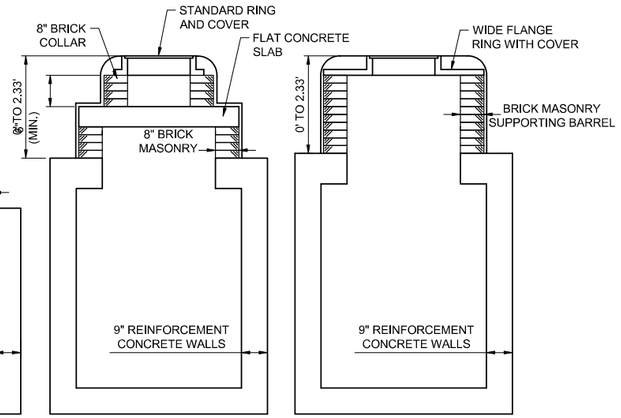
TYPE C & D

NOT TO SCALE

REINFORCED CONCRETE

TYPE 1 & 2

NOT TO SCALE



REINFORCED CONCRETE

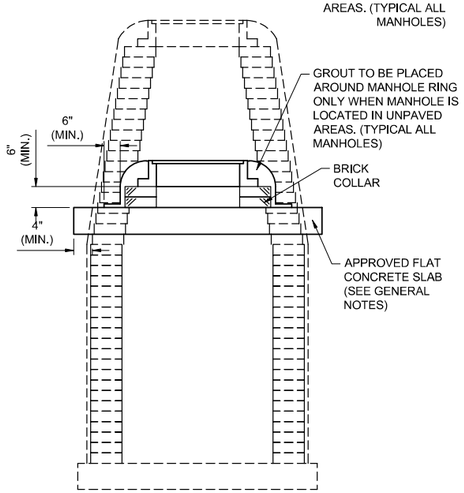
TYPE 3

NOT TO SCALE

REINFORCED CONCRETE
(WIDE FLANGE RING)

TYPE 4

NOT TO SCALE



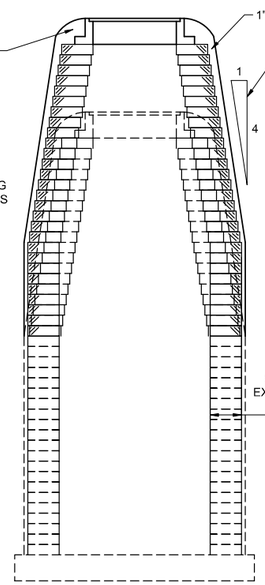
DOWNWARD ADJUSTMENT NOTES

1. THE APPROPRIATE PORTIONS OF THE DRAW AND BARREL OF TYPE A, B, C, D, 1 AND 2 MANHOLES SHALL BE REMOVED. A FLAT CONCRETE SLAB SHALL BE PLACED AND THE RING AND COVER RESET. ALL WORK AND MATERIALS SHALL CONFORM TO THE DE-TAILS SHOWN AND THE GENERAL NOTES.
2. COURSES OF BRICK BARREL SUPPORTING THE WIDE FLANGE RING FOR TYPE 4 MANHOLES AND FLAT CONCRETE SLAB FOR TYPE 3 MANHOLES SHALL BE REMOVED AS NECESSARY PRIOR TO RE-SETTING THE WIDE FLANGE RING OR FLAT CONCRETE SLAB AND RING. ALL WORK AND MATERIALS SHALL CONFORM TO THE DE-TAILS SHOWN AND THE GENERAL NOTES.

(GREATER THAN 12")

DOWNWARD ADJUSTMENT

NOT TO SCALE

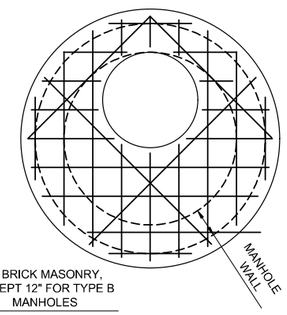


DOWNWARD ADJUSTMENT NOTES

1. THE ENTIRE DRAW OF TYPES A, B, C, D, 1 AND 2 MANHOLES SHALL BE REMOVED. THE MANHOLE BARREL RAISED THE APPROPRIATE AMOUNT, A NEW DRAW CONSTRUCTED, AND THE RING AND COVER RESET. THE UPPER PORTION OF TYPE 3 MANHOLES SHALL BE REMOVED TO THE BOTTOM OF THE FLAT CONCRETE SLAB, THE BRICK MASONRY BARREL SUPPORTING THE SLAB SHALL BE RAISED THE APPROPRIATE AMOUNT, AND THE SLAB AND RING AND COVER RESET. THE WIDE FLANGE RING AND COVER OF TYPE 4 MANHOLES SHALL BE REMOVED, THE BRICK MASONRY BARREL SUPPORTING THE RING SHALL BE RAISED THE APPROPRIATE AMOUNT AND THE RING AND COVER RESET. ALL WORK REQUIRED FOR A GREATER THAN TWELVE INCH (12") UPWARD ADJUSTMENT OF ANY MANHOLE SHALL BE ACCOMPLISHED WITH BRICK MASONRY IN ACCORDANCE WITH THE DETAILS SHOWN AND THE GENERAL NOTES. (GREATER THAN 12")

UPWARD ADJUSTMENT

NOT TO SCALE

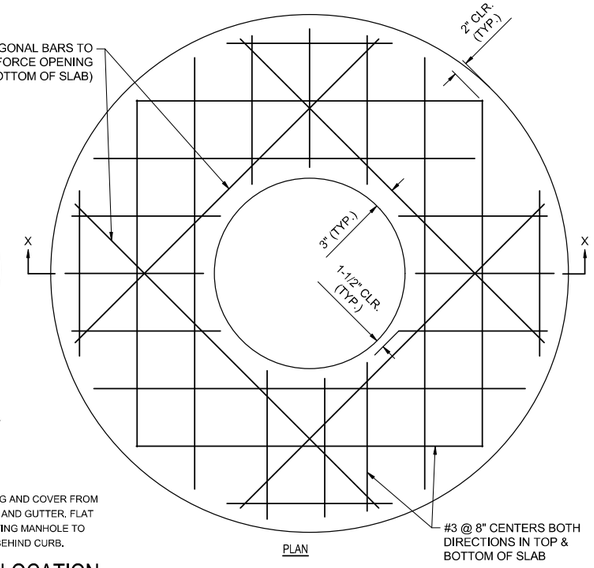


ALTERNATE OPENING NOTES

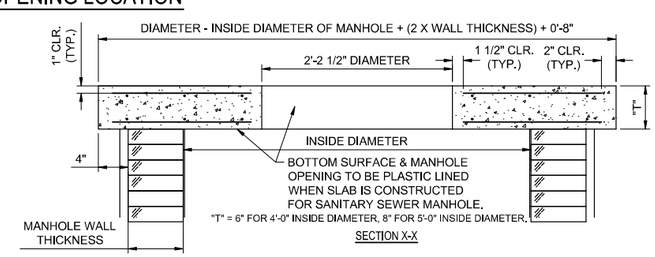
1. TO BE USED ONLY IF NECESSARY TO KEEP RING AND COVER FROM CONFLICTING WITH CURB OR COMBINED CURB AND GUTTER. FLAT CONCRETE SLAB SHALL BE ROTATED ON EXISTING MANHOLE TO POSITION RING AND COVER IN PAVEMENT OR BEHIND CURB.

ALTERNATE OPENING LOCATION

NOT TO SCALE



PLAN



SECTION X-X

FLAT CONCRETE SLAB DETAILS

NOT TO SCALE

MANHOLE ADJUSTMENT NOTES

1. MANHOLES DESIGNATED FOR ADJUSTMENT SHALL BE RAISED OR LOWERED AS NECESSARY SUCH THAT THE CASTING WILL CONFORM TO THE REQUIRED ELEVATION. TOPS OF STORM OR SANITARY SEWER MANHOLES LOCATED IN PAVED AREAS SHALL BE SET FLUSH WITH THE PAVEMENT. TOPS OF SANITARY SEWER MANHOLES LOCATED IN GRASSED AREAS SHALL BE SET FOUR TENTHS OF ONE FOOT (0.40') HIGHER THAN THE FINISHED GRADE. TOPS OF STORM SEWER MANHOLES LOCATED IN GRASSED AREAS SHALL BE SET FLUSH WITH THE FINISHED GRADE. TOPS OF STORM OR SANITARY SEWER MANHOLES LOCATED IN UNPAVED TRAVEL WAYS SHALL BE SET SIX INCHES (6") BELOW FINISHED GRADE.
2. THE NEW TOP SPECIFIED ON THE PLANS WAS ESTABLISHED FROM THE BEST INFORMATION AVAILABLE AT THE TIME THE PLANS WERE PREPARED. THE ACTUAL TOP ELEVATION SHALL BE VERIFIED OR ESTABLISHED, IN THE FIELD, BY THE ENGINEER AT THE TIME THE ADJUSTMENT IS MADE. NO ADJUSTMENT IN BID PRICE SHALL BE MADE FOR A CHANGE IN TOP ELEVATION DEEMED NECESSARY BY THE ENGINEER.
3. THE ADJUSTMENT OF ALL MANHOLES WHICH ARE TO BE LOWERED OR RAISED TWELVE INCHES (12") OR LESS SHALL BE ACCOMPLISHED BY REMOVING THE EXISTING RING AND COVER AND REMOVING OR ADDING THE APPROPRIATE COURSE(S) OF BRICK AND REPLACEMENT OF THE RING AND COVER. ALL WORK SHALL BE IN ACCORDANCE WITH NOTES BELOW.
4. ALL UPWARD OR DOWNWARD ADJUSTMENT IN EXCESS OF TWELVE INCHES (12") SHALL BE IN ACCORDANCE WITH DETAILS AND NOTES SHOWN ON THIS SHEET.
5. NEW BRICK USED IN THE ADJUSTMENT OF MANHOLES SHALL CONFORM TO THE REQUIREMENTS SPECIFIED FOR GRADE MS IN A.S.T.M. C32-73 OR GRADE SW IN A.S.T.M. C62-69. BRICK SHALL HAVE NOMINAL DIMENSIONS WHICH WILL PERMIT THE ADJUSTED PORTION TO MATCH THE DIMENSIONS OF THE WALLS OF THE STRUCTURE BEING ADJUSTED. UNDAMAGED EXISTING BRICK, SALVAGED AS PART OF EXISTING MANHOLE ADJUSTMENT(S), FOR THIS PROJECT, MAY BE REUSED IN COMPLETING ADJUSTMENT(S) IF THOROUGHLY CLEANED OF EXISTING MORTAR AND IF APPROVED AS TO SUITABILITY BY THE ENGINEER.
6. ALL BRICK SHALL BE LAID WITH SHOVE JOINTS. PORTLAND CEMENT MORTAR, AS SPECIFIED BELOW, SHALL BE USED IN LAYING THE BRICK. THE ENTIRE OUTSIDE SURFACE OF THE MANHOLES, ADJUSTED WITH BRICK, SHALL BE PLASTERED WITH A MINIMUM OF ONE INCH (1") OF THE CEMENT MORTAR. ALL CONTACT SURFACES BETWEEN BRICK MASONRY, FLAT CONCRETE SLABS (IF REQUIRED), AND CAST IRON RINGS SHALL BE SEALED WITH A LAYER OF THE CEMENT MORTAR. BACKFILL OF ADJUSTED SECTIONS SHALL NOT BE ACCOMPLISHED UNTIL THE MORTAR HAS CURED FOR TWENTY-FOUR (24) HOURS.
7. MORTAR USED IN ADJUSTMENT OF MANHOLES SHALL CONTAIN EIGHT (8) SACKS OF PORTLAND CEMENT PER CUBIC YARD, FINE AGGREGATE, AND SUFFICIENT WATER TO PRODUCE A WORKABLE AND PLASTIC MIX OF SUCH CONSISTENCY AS TO PERFORM PROPERLY THE FUNCTION OF MASONRY CONSTRUCTION.
8. CEMENT USED FOR MORTAR SHALL BE TYPE I COMPLYING WITH THE REQUIREMENTS OF THE LATEST REVISION OF A.S.T.M. DESIGNATION C-150.
9. FINE AGGREGATE USED FOR MORTAR SHALL MEET THE REQUIREMENTS FOR TYPE FA-A, DIVISION 1102, OF THE "STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION," KANSAS DEPARTMENT OF TRANSPORTATION, 2015 EDITION.
10. WATER USED FOR MORTAR SHALL MEET THE REQUIREMENTS OF DIVISION 2401, OF THE MENTIONED STANDARD SPECIFICATIONS.
11. AN APPROVED TYPE OF FLAT CONCRETE SLAB, CONFORMING TO THE REQUIREMENTS OF A.S.T.M. C-478, SHALL BE USED TO SUPPORT THE MANHOLE RING AND COVER WHERE IT IS NECESSARY TO LOWER MANHOLES MORE THAN TWELVE INCHES (12"). ALL SURFACES OF THE FLAT CONCRETE SLAB, FOR SANITARY SEWER MANHOLES, WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE PROTECTED BY A PLASTIC LINING. A MINIMUM SIX INCH (6") BRICK COLLAR CONFORMING TO THE SAME TYPE OF CONSTRUCTION AS SPECIFIED ABOVE SHALL BE INSTALLED BETWEEN THE MANHOLE RING AND THE FLAT CONCRETE SLAB TO FACILITATE MINOR ADJUSTMENTS IN ELEVATION.
12. PLASTIC LINING REQUIRED FOR FLAT CONCRETE SLABS, TO BE PLACED IN CONNECTION WITH THE ADJUSTMENT OF SANITARY SEWER MANHOLES, MAY BE AMER-PLATE T-LOCK LINER PLATE, B.F. GOODRICH LOK-RIB KOROSEAL, OR AN APPROVED EQUAL. THE PLASTIC LINING MANUFACTURER'S RECOMMENDATIONS FOR INSTALLING, SEALING JOINTS, TESTING AND INSPECTION OF THE LINING SHALL BE CONSIDERED AS INCORPORATED IN AND FORMING A PART OF THESE SPECIFICATIONS. THREE (3) COPIES OF THE PLASTIC LINING MANUFACTURER'S RECOMMENDATIONS FOR LINING INSTALLATION SHALL BE FURNISHED TO THE ENGINEER FOR APPROVAL PRIOR TO THE FABRICATION OF ANY FLAT SLABS REQUIRING PLASTIC LINING.

MABCD REVIEWER:

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JOSHUA GOLKA
LICENSED
24136
03/28/2025
KANSAS
PROFESSIONAL ENGINEER

BY TEXTRON AVIATION

Date	Description

EAST CAMPUS
Q-LOT PARKING LOT AND
ACCESS DRIVE
WICHITA, KS

JOB NUMBER:	238003-025
DATE:	03/28/2025
DRAWN:	
CHECKED:	

CONSTRUCTION DOCUMENTS

MANHOLE ADJUSTMENT DETAIL

CU450

EAST CAMPUS

SAVED 9/14/2023 11:45:37 AM BY CHANCE.SWANEY
PLOTTED 3/28/2025 9:59:25 AM BY CHANCE SWANEY
U:\WICHITA-FACIL\2023\238003\025\MUNI\DRAWINGS\238003-025 CU450 MANHOLE ADJUSTMENT DETAIL.DWG