

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:

KANSAS ONE-CALL 687-2470

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

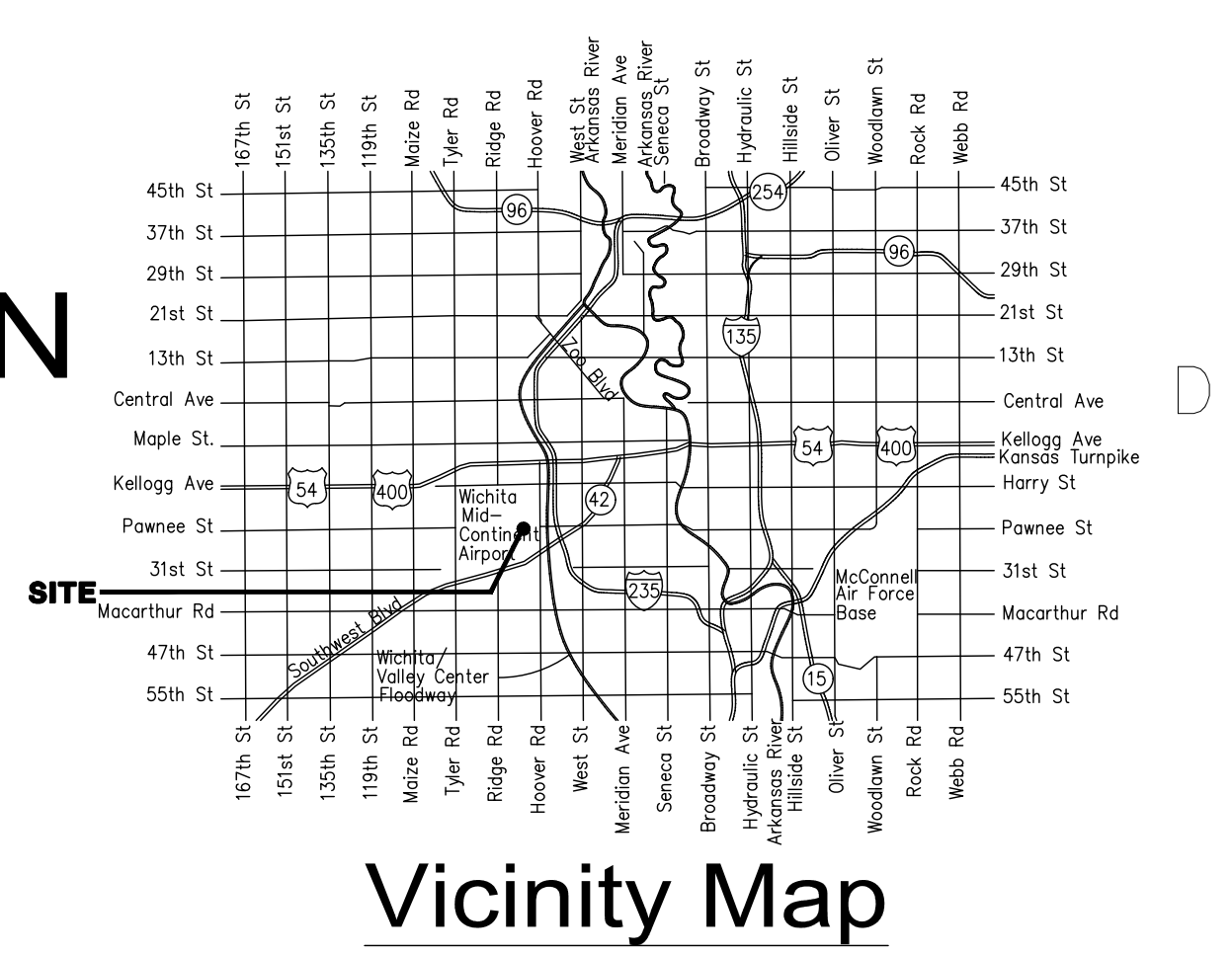
AT&T 1-800-246-8464
BLACK HILLS ENERGY 1-800-694-8989
CITY OF WICHITA WATER & SEWER 1-316-219-8921
CITY OF WICHITA STORMWATER 1-316-268-4090
CITY OF WICHITA TRAFFIC 1-316-268-4034
COX COMMUNICATIONS 1-888-249-3530
KANSAS GAS SERVICE 1-888-482-4950
EVERGY 1-800-544-4857
WICHITA AIRPORT AUTHORITY 1-316-946-4700
3. UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
4. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS, IN THE OPINION OF THE ENGINEER, THAT 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 OR WETLANDS IS SUBJECT TO U.S. CORPS. OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
5. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE CITY ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
6. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
8. THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FINAL GRADES BY THE CONTRACTOR.
9. 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.
10. IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN WILL BE REVIEWED BY THE WAA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTORS RESPONSIBILITY.
11. ALL ELEVATIONS SHOWN ARE NAVD 88.
12. ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.
13. ANY SIDEWALK, DRIVE APPROACH, CURB, OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY THE CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.
14. ALL APPLICABLE FEES (TAP, EQUITY, IN LIEU OF & MAIN BENEFIT) MUST BE PAID BEFORE ANY CONNECTIONS CAN BE MADE ON THIS PROJECT. QUOTES CAN BE OBTAINED ON FEES BY CALLING 316-268-4555.
15. CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY OR EASEMENT LINE OR WITHIN TWO FEET OF VAULT.
16. OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
17. THE CONTRACTOR SHALL LAY A TRACER WIRE AND SET TEST STATIONS ALONG ALL WATER PIPE INSTALLED IN ACCORDANCE WITH CITY SPECIFICATIONS AND TRACER WIRE DETAIL ON DETAIL SHEET WL-101, COST IS SUBSIDIARY TO PIPE INSTALLATION.
18. THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY

19. REQUESTS FOR SHORT TERM WATER INTERRUPTIONS SHALL BE MADE TO THE CITY WATER DISTRIBUTION DIVISION AND WILL BE SUBJECT TO THEIR APPROVAL. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ANY PROPERTY OWNER, BUSINESS, AND/OR TENANTS THAT WILL HAVE WATER SERVICE INTERRUPTED AT LEAST 5 DAYS IN ADVANCE. SUCH NOTIFICATIONS SHOULD INDICATE THE TIME AND DATE THAT THE WATER WILL BE TURNED OFF AND WHEN THE SERVICE WILL BE RESTORED. NO BUSINESS, PROPERTY OWNER, AND/OR TENANTS SHALL BE WITHOUT WATER SERVICE FOR MORE THAN 8 HOURS. PROPOSED TIE IN LOCATIONS WHICH WILL AFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PREFORMED DURING NON-PEAK HOURS.
20. THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAIN WITH THE CITY SUCH THAT THERE IS A MINIMUM DISRUPTION OF SERVICE. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR COMPLETING WORK FOR CITY APPROVAL AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION.
21. DEFLECTIONS AT PIPE JOINT OR COUPLINGS SHALL NOT EXCEED THE PIPE MANUFACTURERS RECOMMENDED MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE FITTINGS.
22. ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
23. VALVES 12 INCH AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION, 48 HOURS ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-291-8921.
24. ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE CONTRACTOR WILL REIMBURSE THE CITY FOR TAPPING FEES PRIOR TO TAP BEING MADE. UNLESS NOTED ON PLANS.
25. THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTORS EXPENSE.
26. CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
27. WICHITA FIRE DEPARTMENT INSPECTIONS MAY BE SCHEDULED BY CALLING 316-650-0740.
28. ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLACED WITH SAME SOD IN ACCORDANCE WITH THE WICHITA AIRPORT AUTHORITY SPECIFICATION. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH, AND/OR RESEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR6.5 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION.
29. 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 OTHER SEEDING IS REQUIRED IN ACCORDANCE WITH GENERAL NOTE NO. 29 ABOVE. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.
30. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE 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.
31. THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED. THE GENERAL LOCATION OF THE REQUIRED EROSION CONTROL IS ILLUSTRATED ON THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL SHOWN THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.
32. MAINTAIN A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER LINES (MAINS, SERVICES, AND FIRE HYDRANTS) AND ALL SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES). ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE AT THE CLOSEST POINT.
33. MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL GRAVITY SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES) AT CROSSINGS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
34. MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCE MAINS AND SERVICES) AT CROSSINGS. WATERLINES MUST ALWAYS BE PLACED ABOVE PRESSURIZED SANITARY SEWER LINES WHERE THEY CROSS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE AT THE CLOSEST POINT.
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIXING EXISTING IRRIGATION SYSTEM(S) DAMAGED BY CONSTRUCTION AND KEEPING THE EXISTING GRASS ALIVE.
36. ALL OPEN TRENCHES MUST HAVE A CONSTRUCTION FENCE WHEN WORK IS NOT OCCURRING ON THE TRENCH. CONSTRUCTION FENCE SHALL BE INSTALLED IN ACCORDANCE WITH THE WICHITA AIRPORT AUTHORITY DETAIL.

WATER DISTRIBUTION SYSTEM to serve CUSTOMS & BORDER PROTECTION WICHITA AIRPORT GAF 1700 AIRPORT ROAD CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer
Project Number
2021-018311 PPW (54030980)

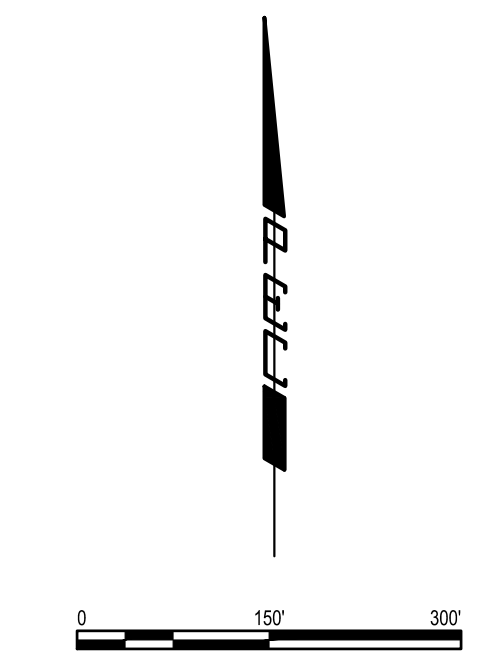
AS BUILT PLANS
CONTRACTOR: DONDLINGER CONSTRUCTION
SUPERINTENDENT: BRAD REICHENBERGER
FOREMAN: DAVID KOCH
CLIENT: CITY OF WICHITA
INSPECTOR: JIM DULING
INSPECTION FIRM: SCHWAB-EATON, PA.
PDF BY: JFD 12-20-22



SHEET INDEX

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SHEET NO. 8	CG505 - EROSION CONTROL DETAILS 5

BUILT PER PLAN



APPROVED AS NOTED
BY WICHITA PUBLIC WORKS
ENGINEERING DIVISION
& BY WICHITA FIRE DEPARTMENT

Engineering Ben Ferguson - July 30, 2021
Utilities Greg Lolley - July 30, 2021
Fire Dept. Jose Ocadiz - July 30, 2021

NOTE TO CONTRACTORS

Public Property:
Inspection and testing for the waterline is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection is to be in accordance with the City of Wichita standard construction engineering practices and certified by a Professional Engineer Licensed in the state of Kansas. No work shall be performed in dedicated easements or public right-of-way 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 City of Wichita Specifications and Standards and Special Provision (on file and available in the City Engineer's Office) or on the City's Website.

Private Property:
Installation and testing for the fire protection line is to be performed by a City of Wichita licensed fire protection contractor in accordance with the fire codes as adopted by the City of Wichita. All material and construction practices for the fire protection line shall comply with the fire codes as adopted by the City of Wichita (available from the City of Wichita Fire Department). The Contractor shall not commence work without notification and approval of the Wichita Fire Department. Inspection of the fire protection line is to be provided by a licensed Engineering Firm under contract with the Owner/Developer and the Fire Department. The contractor shall not start work until the project inspector is assigned to the project and present on the site. Any work done without inspection will be required to be uncovered for inspection.

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

SEPTEMBER 2021

CITY OF WICHITA PROJECT NUMBER: A9002
CUSTOMS & BORDER PROTECTION
1700 AIRPORT RD. WICHITA, KANSAS 67209

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PROFESSIONAL ENGINEERING CONSULTANTS P.A.
300 SOUTH TOPEKA, WICHITA, KS 67202
316-262-2691 www.pec.com

PEC PROJECT NUMBER: 196046-001

DESCRIPTION	DATE
PROJECT NO.	02340.19001
DATE:	05-13-2022
DRAWN BY:	DSB
CHK'D BY:	DRC

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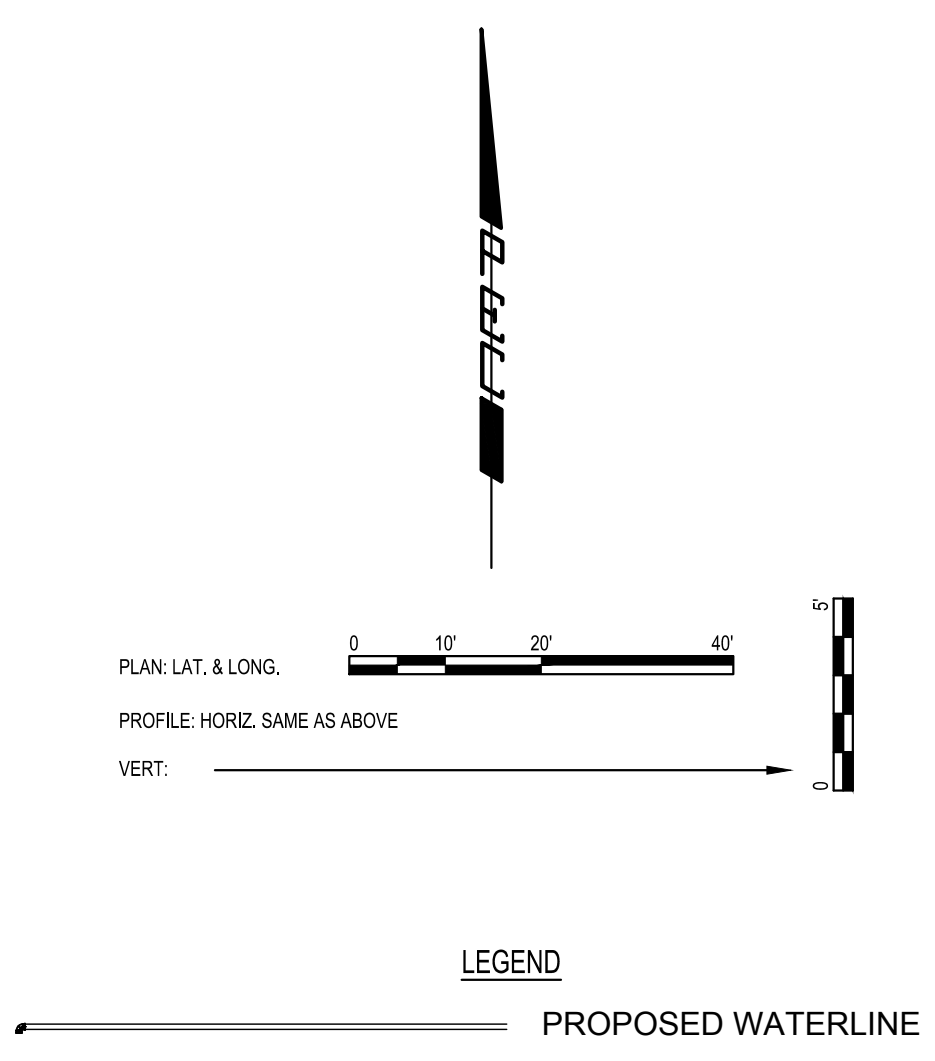
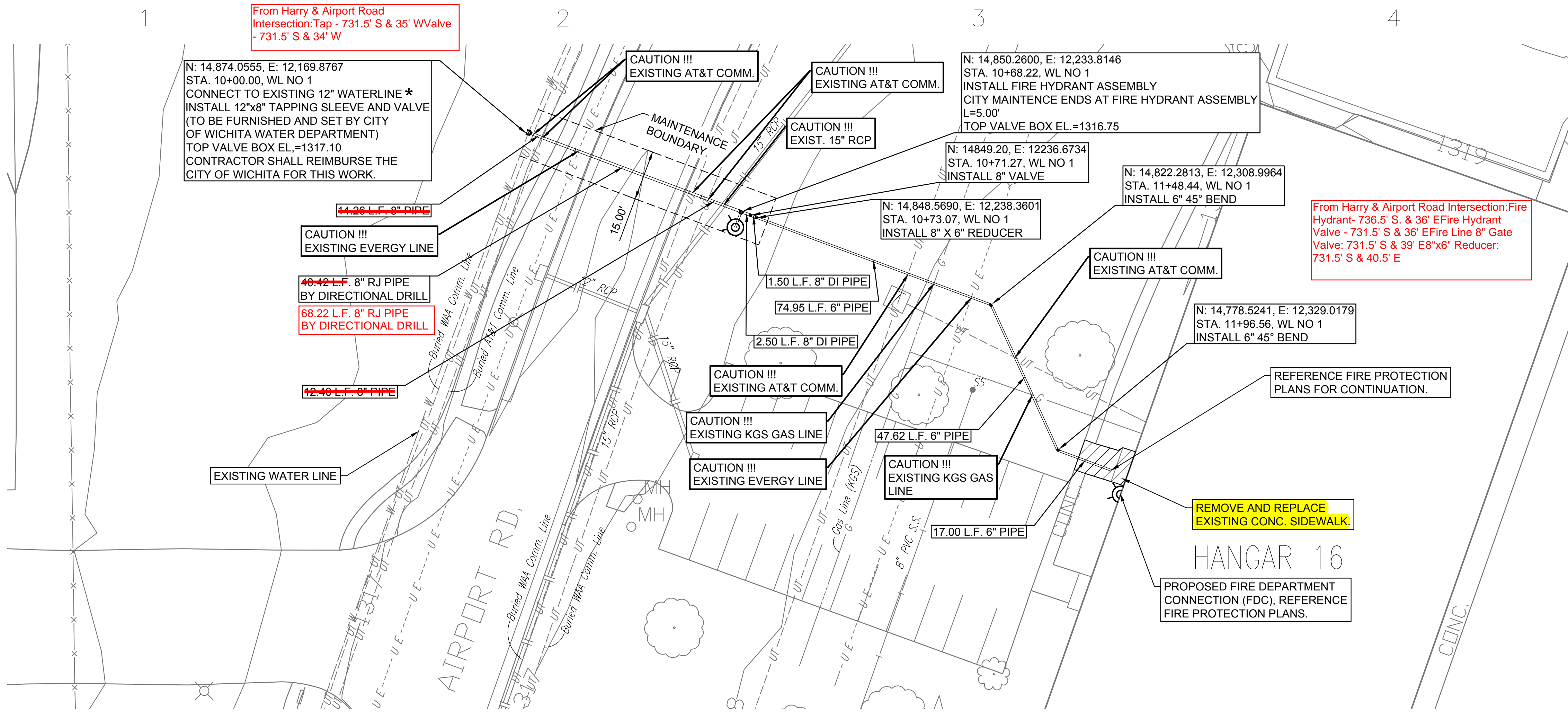
PPW COVER SHEET
CU220

From Harry & Airport Road
Intersection: Tap - 731.5' S & 35' W Valve
- 731.5' S & 34' W

N: 14,874.0555, E: 12,169.8767
STA. 10+00.00, WL NO 1
CONNECT TO EXISTING 12" WATERLINE *
INSTALL 12"x8" TAPPING SLEEVE AND VALVE
(TO BE FURNISHED AND SET BY CITY
OF WICHITA WATER DEPARTMENT)
TOP VALVE BOX EL.=1317.10
CONTRACTOR SHALL REIMBURSE THE
CITY OF WICHITA FOR THIS WORK.

N: 14,850.2600, E: 12,233.8146
STA. 10+68.22, WL NO 1
INSTALL FIRE HYDRANT ASSEMBLY
CITY MAINTENANCE ENDS AT FIRE HYDRANT ASSEMBLY
L=5.00'
TOP VALVE BOX EL.=1316.75

From Harry & Airport Road Intersection: Fire
Hydrant- 736.5' S & 36' E Fire Hydrant
Valve - 731.5' S & 36' E Fire Line 8" Gate
Valve: 731.5' S & 39' E 8"x6" Reducer:
731.5' S & 40.5' E



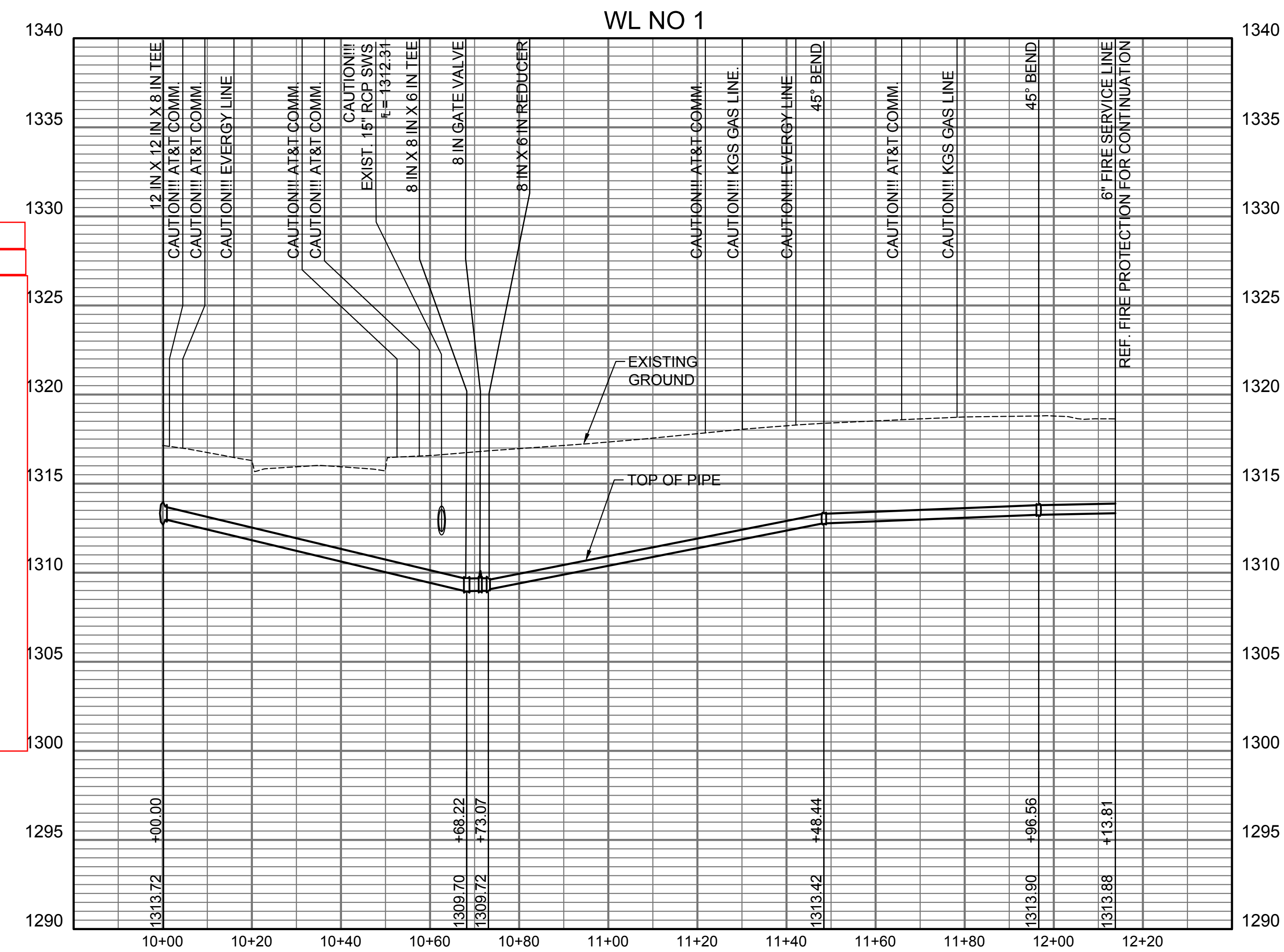
CITY OF WICHITA PROJECT NUMBER: A9002
CUSTOMS & BORDER PROTECTION
1700 AIRPORT RD. WICHITA, KANSAS 67209

- NOTES:
- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR FIXING TURF AREAS AND IRRIGATION SYSTEM DISTURBED BY CONSTRUCTION.
 - 2. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS NECESSARY TO ENSURE SOIL DOES NOT ENTER STORM SEWERS OR TRACK ONTO ROADWAY OR DRIVE PAVEMENTS.

* CONTRACTOR SHALL POTHOLE THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING 12" WATERLINE AND ALL UTILITIES CROSSING THE PLAN ALIGNMENT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ENGINEER TO ADJUST PROFILE AND VERIFY THAT THE INSTALLED FIRE SERVICE LINE MAINTAINS 2' CLEAR BELOW THE 15" STORM SEWER AND 12" CLEAR FROM OTHER UTILITIES.

PUBLIC WORKS & UTILITIES MAINTENANCE ENDS AT FIRE HYDRANT. ANY MAINTENANCE ACTIVITIES THAT REQUIRE SITE DISTURBANCE WITHIN THE 15' WIDE MAINTENANCE BOUNDARY AS SHOWN ON THE PLANS WILL BE BACKFILLED AND LEFT FOR THE OWNER/TENANT TO REPLACE. ANY MAINTENANCE REQUIRED PAST THE VALVE IS REQUIRED TO BE COMPLETED AS DETERMINED BY THE OWNER/TENANT AND SHALL NOT BE DONE BY PUBLIC WORKS & UTILITIES.

SUMMARY TABLE			
ITEM	TYPE	MANUFACTURER	QTY
FH Assy w/Storz Nozzel	Super Centurion 4.5"	Muellar	1 Ea
8" PVC	C900 DR-18 Corelock	NAPCO Pipe & Fittings	80 LF
8" PVC	C900 DR-18	NAPCO Pipe & Fittings	17 LF
6" PVC	DR18	Sanderson Pipe	140 LF
12"x8" Tapping Assy	415 TI ESS	CLOW	1 Ea
8" Di Pipe	ANSI/AWWA C115/A21.15	American Cast Iron	4 LF
6" Di Pipe	ANSI/AWWA C115/A21.15	American Cast Iron	29 LF
8"x6" Reducer	CIMJ (C153)	SIP Pipe Products	1 Ea
6" 45 Degree Bend	CIMJ (C153)	SIP Pipe Products	2 Ea
8" Gate Valve	C515 350W	Muellar	2 Ea
6" Gate Valve	29H3	American Valve	1 Ea
Screw Type Valve Box	Series 600	SIP Pipe Products	3 Ea
PVC Stargrip	Series 4000	Star Pipe Products	2 Ea
8"x8"x6" "T"	CIMJ (C153)	SIP Products	1 Ea
6" MJ	CIMJ (C153)	SIP Products	8 Ea
8" MJ	CIMJ (C153)	SIP Products	7 Ea
6" Flanged Fitting	ANSI/AWWA C110/A21.10	SIP Products	1 Ea
Wichita Test Station Assy	FINKlet/FINKPlate	MESA	1 Ea



BENCHMARK

BM#34 - N-15,284.6233, E-12,441.2907
Chiseled "+" on Top W Curb of Airport Road and W of Building #1640. 38' S of Light Pole #38.
Elev.=1315.77

BM#41 - N-13,850.5440, E-11,824.9783
Chiseled "+" on SW Corner of Street Light Base #39 on W side of Airport Road Near the NE Corner of Building #1801.
Elev.=1320.05

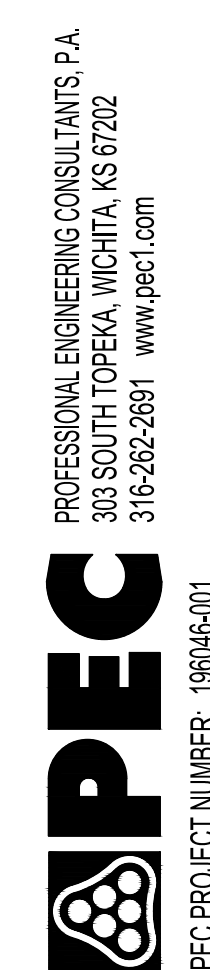
CONTROL POINTS

CP#248 - N: 13,065.4850, E: 11,583.2600
Found 3/4" Iron Pipe with PEC Cap in Grass field
Airport Road S of Crossfield Road
5.8' W to Back of Curb E side S bound Airport Road
36.36' N to CL E-W Concrete Joint Crossfield Road

CP#259 - N: 15,489.1940, E: 12,587.8010
Found 3/4" Iron Pipe with PEC Cap SE Corner Airport Road and Harry Street
2.35' W of Center Sewer Manhole
18.00' S of Centerline Concrete Joint Harry Street

CP#303A - N: 14,874.2367, E: 11,375.3017
Set 1/2" Bar 5' N of NE Corner Electrical Switch #SS-26
596.35' N to Centerline of Harry Street
18.35' S to E Curb Midfield Road

BUILT PER PLAN



PROJECT NO.	02340.19001
DATE	05-13-2022
DRAWN BY:	DSB
CHKD BY:	DRC

WATERLINE PLAN & PROFILE
CU221

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FIRE HYDRANT ASSEMBLY
PER CITY OF WICHITA SPECIFICATIONS

MATERIALS LIST

- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (0" x 6")
- 1- 6" MJ GATE VALVE
- 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
- 6" DI CL SJ PIPE (LENGTH VARIABLE)
- 1- FIRE HYDRANT
- 1- 6" ANCHOR COUPLING*
- 2- 90° BENDS*
- 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT *
- CONCRETE BLOCKING (AS REQUIRED)
- RIVER WASHED PEA GRAVEL (AS REQUIRED)

* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DI CL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUS, OR SIMILAR RESTRAINT BETWEEN 90° BENDS TO SECURE ALL FITTINGS DURING TESTING AND OPERATION. THE CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS SHEET.

** CAUTION: WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AROUND EACH WEEP HOLE.

CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

FIRE HYDRANTS REQUIRED

STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
10+68.77	1316.77	1311.45	5.82	.82'

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION

MATERIALS LIST

- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
- 1- 6" VALVE BOX
- 2- DI CL SJ PIPE

MATERIALS LIST

- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
- 1- MJ ANCHOR COUPLING (12" OR SMALLER)
- 1- 6" VALVE BOX
- CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

MATERIALS LIST

- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
- 1- CMJ CAP WHEN NECESSARY
- 1- 6" VALVE BOX
- 20' OF PIPE (BID WITH PIPE)
- 2 - #6 REINF. BARS
- CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

TRACER WIRE DETAIL
COST IS SUBSIDIARY TO PIPE INSTALLATION

TRACER WIRE
Conductive type pipe locator/tracer wire shall be install to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire and waterproof connectors can be found on the City of Wichita's website at www.wichita.gov.

WIRE
The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

TEST STATIONS
The test station for fire hydrant application shall be a 1" "conduit" style test station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "WATER" stamped or molded into the lid. The test station for valve applications shall be a 2" flush style test station with wire connector on lid. Model # T2PH7B1LP Handley Industries or CD14*TP SnakePIT as manufactured by Copperhead Industries or approved equal. The flush style shall have the word "WATER" stamped or molded into the lid. All test stations shall be manufactured using molded blue tops or sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be install to allow 12" of wire within the test station. The location of all test stations shall be recorded, and shown in the as-built drawings. Flush style test stations shall not be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire & move flush mount test station to nearest location out of pavement or sidewalk.

ANODES
The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to 12 AWG CCS which shall be extended to the test station.

ANCHORED VALVE ASSEMBLY, SPECIAL

Notes:

- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
- The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
- All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

VALVE	THRUST AT 150 #/sq
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

2" BLOWOFF ASSEMBLY

MATERIALS LIST

- 1- 6" VALVE BOX
- 1- CMJ CAP
- 1- 2" GALV. PIPE (AS REQUIRED)
- 1- 2" GALV. PLUG (HAND TIGHTENED)
- 1- 2" GALV. COUPLING
- 1- 2" GALV. PLUG (HAND TIGHTENED)
- 1- 2" GALV. STREET EL.
- 1- 2" GALV. PIPE (AS REQUIRED)
- 1- 2" GALV. COUPLING
- 1- 2" GALV. PLUG (HAND TIGHTENED)

WL-101

CITY ENGINEER'S OFFICE
 CITY HALL SEVENTH FLOOR
 455 NORTH MAIN STREET
 WICHITA, KANSAS 67202-1620
 (316) 268-4501

STANDARD WATER ASSEMBLY DETAIL

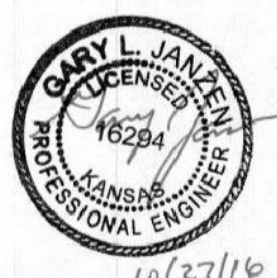
CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER: OCA NUMBER: DATE:

CHECKED BY: DRC

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REVISED: OCTOBER 2016

Wichita-Sedgwick County
Metropolitan Area Building
and Construction Department

REVIEWED FOR CODE COMPLIANCE

CORRECTIONS OR COMMENTS MADE ON THESE DRAWINGS AND THIS DOCUMENT DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS OF THE CODE OF THE MARCD. THE CITY OF WICHITA OR SEDGWICK COUNTY THIS REVIEW IS ONLY FOR GENERAL CONFORMANCE OF THE CODE. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND CORRELATING ALL TECHNIQUES OF CONSTRUCTION. THIS APPROVAL IS SUBJECT TO PROVISIONS OF SECTION 107.4 OF THE 2012 INTERNATIONAL BUILDING CODE.

DATE: 11/17/21 BY: Debra Shauers



LEGEND:

- - CONTRACTOR ACCESS ROUTE
- ⊗ - WARNING SIGN
- Ⓢ - FLAGGER
- ⊕ - CONSTRUCTION AHEAD SIGN
- - - - - LOW-PROFILE BARRICADES
- ① INSTALL LOW-PROFILE BARRICADES, CONTINUOUS WITH 20' GAP
- ② INSTALL LOW-PROFILE BARRICADES, CONTINUOUS

SAFETY NOTES:

1. ALL CONSTRUCTION VEHICLES INSIDE THE SECURITY FENCE SHALL BE EQUIPPED WITH A 3'X3' FLAG ON A STAFF WITH CHECKERED ORANGE AND WHITE SQUARES HAVING A MIN. SIDE DIM. OF 12" OR HAVE A BEACON AS INDICATED IN SOP #5.
2. CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS OUTSIDE THE TAXILANE/WAY SAFETY AREA AT ALL TIMES.
3. CONTRACTOR SHALL MAINTAIN EQUIPMENT AND MATERIALS WITHIN BARRICADES ON EAST SIDE HANGER 16.
4. CONTRACTOR SHALL ERECT ORANGE CONSTRUCTION FENCE ADJACENT TO ALL EXCAVATIONS THAT REMAIN OPEN AT THE END OF A WORK SHIFT.
5. WHILE WORKING IN AN AREA THE CONTRACTOR MUST MAINTAIN PERSONNEL AND EQUIPMENT WITHIN THE BOUNDARY OF THE BARRICADES.
6. PRIOR TO ANY WORK INSIDE THE SECURITY FENCE, CONTRACTOR SHALL SET UP ALL TRAFFIC CONTROL DEVICES AND NOTIFY AIRPORT OPERATIONS FOR A REVIEW. REMOVE TRAFFIC CONTROL AFTER ALL WORK IN AN AREA HAS BEEN COMPLETED AND WITH THE COORDINATION OF AIRPORT OPERATIONS.
7. ALL CONSTRUCTION ACTIVITY SHALL YIELD TO AIRCRAFT AT ALL TIMES.
8. ALL CONSTRUCTION VEHICLES AND EQUIPMENT SHALL BE REMOVED FROM INSIDE THE SECURITY FENCE WHEN NOT BEING USED.
9. ALL WORK INSIDE THE SECURITY FENCE SHALL OCCUR MONDAY - FRIDAY FROM 1/2 HOUR AFTER SUNRISE TO 1/2 HOUR BEFORE SUNSET.
10. FLAGGER SHALL BE PRESENT ANY TIME THAT WORK IS OCCURRING AT THE CCTV POLE. REFERENCE SOP NO. 5 FOR FLAGGER DUTIES.

SAVED: 11/02/2021 12:45:55 PM BY: CHANCE SWANEY
 PLOTTED: 11/02/2021 12:43:43 PM BY: CHANCE SWANEY
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PROFESSIONAL ENGINEERING CONSULTANTS P.A.
 303 SOUTH TOPEKA, WICHITA, KS 67202
 316-262-2891 www.pec1.com
PEC
 PEC PROJECT NUMBER: 196046-001

1	MABCD	11/9/2021
△	DESCRIPTION	DATE
PROJECT NO.:	02340.19001	
DATE:	10-01-2021	
DRAWN BY:	DSB	
CHKD BY:	DRC	

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SAFETY PLAN

CS101