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:

WICHITA AIRPORT AUTHORITY	1–316–946–4700
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

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 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 ABUTTING 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 CONSULTANT ENGINEER AND DAWNITA REINHARDT WITH THE CITY AT 316–268–4574 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 MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER AT TRAFFIC@WICHITA.GOV BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL 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 RESPONSIBLY.

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. 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.

14. 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.

15. THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINE(S) SHALL BE MADE WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE–INS.

16. REQUESTS FOR SHORT TERM WATER INRERRUPTIONS 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 PERFORMED DURING NON–PEAK HOURS.

17. 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.

18. DEFLECTIONS AT PIPE JOINT OR COUPLINGS SHALL NOT EXCEED THE PIPE MANUFACTURES RECOMMENDED MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE FITTINGS.

19. ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.

20. VALVES 12 INCH AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION, 48 HOURS OF ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316–291–8921.

21. 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.

22. THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTIONS AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTORS EXPENSE.

23. CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.

24. WICHITA FIRE DEPARTMENT INSPECTIONS MAY BE SCHEDULED BY CALLING DAWNITA REINHARDT, 316–268–4574.

25. THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT ERODED SOIL FROM ENTERING DITCHES, CULVERTS, AND DRAINAGE AREAS. STANDARD DETAILS FOR EROSION BMP'S ARE AVAILABLE FROM THE ENGINEER. THE CONTRACTOR SHALL FOLLOW THE INTENT OF THE BMP'S WHICH ACT AS A GUIDELINE.

26. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT THROUGHOUT ITS ENTIRE EXTENT BEFORE SUBMITTING A PROPOSAL IN ORDER TO BECOME BETTER INFORMED OF THE EXISTING FIELD CONDITIONS AND OBSTACLES WHICH MIGHT BE ENCOUNTERED DURING CONSTRUCTION. EACH BIDDER SHOULD UNDERSTAND THAT NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR EXTRA WORK THAT SHOULD HAVE BEEN EVALUATED PRIOR TO BIDDING.

27. ALL WATER PIPE TRENCHING IN PAVEMENT OR DRIVEWAYS, WHICH WILL BE REQUIRED TO CARRY TRAFFIC UNTIL PERMANENT PAVING REPLACEMENT, SHALL BE TOPPED WITH A MINIMUM OF 6" CRUSHED ROCK (COMPACTED) TO BE INCIDENTAL TO THE PROJECT. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TEMPORARY CRUSHED ROCK UNTIL PERMANENT PAVEMENT IS INSTALLED.

28. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION AND REPORT FINDINGS TO PROJECT ENGINEER. LOCATION INFORMATION HAS BEEN OBTAINED FROM VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXITING UTILITIES MAY BE ENCOUNTERED.

29. CONTRACTOR TO FOLLOW STANDARD CITY OF WICHITA BEST MANAGEMENT PRACTICES FOR EROSION CONTROL.

30. ALL PROPOSED WATER STRUCTURES TO BE INSTALLED PER CITY OF WICHITA STANDARD DETAILS/ SPECIFICATIONS.

31. 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.

32. 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.

33. MAINTAIN A MINIMUM OF 2–FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAIN AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCED 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.

THE COORDINATES PROVIDED IN THESE PLANS ARE FOR INFORMATION AND CHECKING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE CONSTRUCTION STAKING COORDINATES ACCORDING TO THE DIMENSIONS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE COORDINATES SHOWN BEFORE CONSTRUCTION.

LEGEND

(CADD) BEARING & DISTANCE MEASURED FROM DRAWING FILE PROVIDED BY SAVOY COMPANY, PA

M LABELED BEARING & DISTANCE AS SHOWN ON ARCHITECTURAL SURVEY PROVIDED BY SAVOY COMPANY, PA

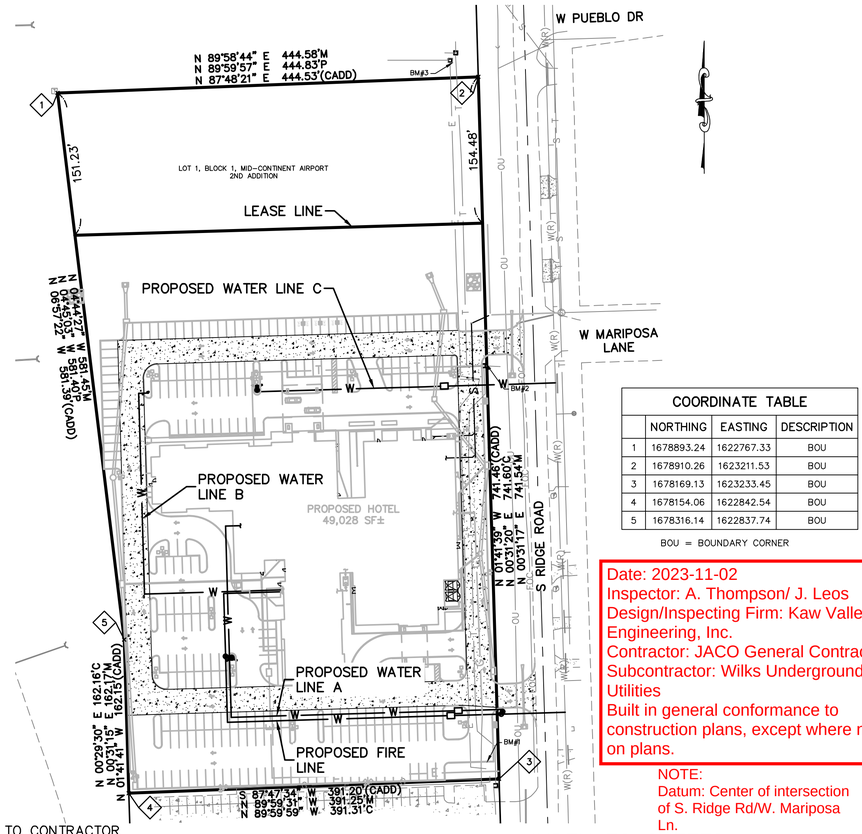
CADD BEARING & DISTANCE WERE USED FOR THE DESIGN OF THIS PROJECT

WATER LINE IMPROVEMENTS
TO SERVE
LOT 1, BLOCK 1, MID-CONTINENT AIRPORT 2ND ADDITION
CITY OF WICHITA, KANSAS

PAUL GUNZELMAN, P.E. INTERIM CITY ENGINEER

PROJECT NUMBER

2023-014826PPW (54030980)



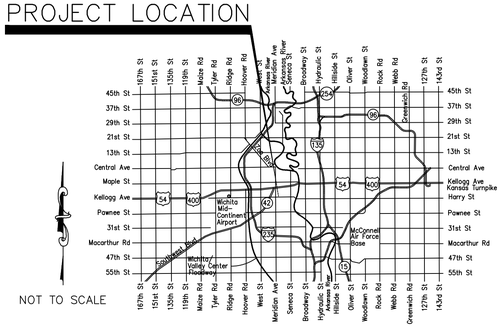
COORDINATE TABLE			
	NORTHING	EASTING	DESCRIPTION
1	1678893.24	1622767.33	BOU
2	1678910.26	1623211.53	BOU
3	1678169.13	1623233.45	BOU
4	1678154.06	1622842.54	BOU
5	1678316.14	1622837.74	BOU

BOU = BOUNDARY CORNER

Date: 2023-11-02
Inspector: A. Thompson/ J. Leos
Design/Inspecting Firm: Kaw Valley Engineering, Inc.
Contractor: JACO General Contractors
Subcontractor: Wilks Underground Utilities
Built in general conformance to construction plans, except where noted on plans.

NOTE:
Datum: Center of intersection of S. Ridge Rd/W. Mariposa Ln.

PROJECT LOCATION



NOT TO SCALE

VICINITY MAP

APPROVED AS NOTED BY CITY ENGINEER OF WICHITA & BY WICHITA FIRE DEPARTMENT

Engineering	*APPROVED BY SHAWN MELLIES*	*DATE 08/22/2023*
Utilities	*APPROVED BY GREG LOLLEY*	*DATE 08/22/2023*
Fire Dept.	*APPROVED BY JOSE OCADIZ*	*DATE 08/22/2023*

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 to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed 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.

BENCHMARKS:
NAVD88 DATUM

PERMANENT BM: TOP OF BRASS DISC AT THE NORTHWEST CORNER OF CONCRETE UTILITY PAD LOCATED 18 FT +/– NORTH AND 13 FT +/– WEST OF SOUTHEAST PROPERTY CORNER.
ELEV=1321.28

BM #1: SQUARE CUT AT THE NORTHEAST CORNER OF CONCRETE UTILITY PAD LOCATED NEAR THE WEST R/W LINE OF RIDGE RD AND IN LINE WITH SOUTH R/W LINE OF MARIPOSA LN
ELEV=1321.27

BM #2: SQUARE CUT AT THE SOUTHEAST CORNER OF CONCRETE UTILITY PAD LOCATED 14 FT +/– NORTH AND 27 FT +/– WEST OF NORTHEAST PROPERTY CORNER.
ELEV=1322.88

AUGUST 2023

SAFETY NOTICE TO CONTRACTOR
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

CAUTION – NOTICE TO CONTRACTOR
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

EXISTING ALTA/NSPS LAND TITLE SURVEY COMPLETED BY SAVOY COMPANY, PA. LAND SURVEYORS 433 S HYDRAULIC WICHITA, KANSAS 67211 PH (316) 265–0005

THIS PLAN SHEET IS PART OF AN OVERALL KAW VALLEY ENGINEERING PLAN SET FOR THE SPECIFIC IMPROVEMENTS CONTEMPLATED THEREIN. AS SUCH, THE INFORMATION CONTAINED MAY BE LIMITED AND SHOULD ONLY BE INTERPRETED WITHIN THE CONTEXT OF THE COMPLETE PLAN SET.

INDEX TO SHEETS

1 TITLE SHEET
2 WATER LINE – FIRE – PLAN & PROFILE
3 WATER LINE A – PLAN & PROFILE
4 WATER LINE B – PLAN & PROFILE
5 WATER LINE C – PLAN & PROFILE
6 EROSION CONTROL PLAN
7 STANDARD WATER ASS'Y DETAIL
8 STANDARD WATER SERVICE DETAIL
9 STANDARD VAULT DETAILS
10 MISCELLANEOUS WATER DETAIL
11 FREE STANDING YARD HYDRANT DETAIL
12 CONSTRUCTION ENDTRANCE DETAIL
13 SILT FENCE & BARRIER DETAILS
14 STRAW BALE & BARRIER DETAILS
15 STREET IMPROVEMENT PROJECTS
16 SUBDIVISION DEVELOPMENT
17 SAVOY SURVEY

LEON D. OSBOURN LICENSED 9772 8/22/2023 KANSAS PROFESSIONAL ENGINEER

PROJ. NO. G22_2268
CFN: 2268WTS
DSN: SRB
DWN: KS
LEON D. OSBOURN
ENGINEER
KS # 9772
200 N. EMPORIA, SUITE 100
WICHITA, KANSAS 67202
PH. (316) 440–4304
wh@kveng.com | www.kveng.com
KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E–113. EXPIRES 12/31/24

PROPOSED WATER LINE "B"

26' FIRE TRUCK LANE

90 Deg Bend Location From Centerline S. Ridge and W. Mariposa Lane: 263 ft South & 328.5 ft West to 90° Bend Left

Fire Riser Location From Centerline S. Ridge and W. Mariposa Lane: 258 ft South & 270.5 ft West to 90° Bend up to 8" DICL Riser.

STA 300+59.87
INSTALL 1 – 90° BEND LEFT
1.68° VERTICAL DEFLECTION UP
SEE DETAIL SHEETS
N 1678364.82
E 1622942.79

STA 300+00.00
CONNECT FIRE LINE TO FLANGE AT THE RISER
N 1678366.59
E 1623002.63

INSTALL 59.87 LF 8" DICL

INSTALL 67.80 LF 8" PVC

PROPOSED HOTEL
49,028 SF±

SEE CIVIL CONSTRUCTION DOCUMENTS FOR DEVELOPMENT PLANS

STA 301+27.67
INSTALL
1 – FIRE HYDRANT ASSEMBLY (FC. S)
L=6.5' 6" DICL SJ PIPE (EAST)
TOP VALVE BOX ELEV=1321.74
1 – 8" VALVE ASSEMBLY (NORTH)
N 1678297.05
E 1622944.80

Private FH 17531
6" V 56491

Fire Hydrant Location:
From Centerline S. Ridge and W. Mariposa Lane:
330 ft South & 328.5 ft West to 8" Tee, 330 ft. S. & 327.5 ft. W to valve, and 330 ft. S. & 322.5 ft. W to Fire Hydrant

INSTALL 62.11 LF 8" PVC

STA 301+89.78
INSTALL 1 – 45° BEND UP
N 1678234.96
E 1622946.63

STA 301+90.78
INSTALL 1 – 45° BEND DOWN
N 1678233.96
E 1622946.66

STA 301+95.78
INSTALL 1 – 90° BEND LEFT
SEE DETAIL SHEETS
N 1678228.97
E 1622946.81

INSTALL 1.00 LF 8" DICL

INSTALL 5.00 LF 8" DICL

PROPOSED ELECTRIC (BY SEPARATE PLANS) CONTRACTOR TO COORDINATE WITH AIRPORT AUTHORITY

26' FIRE TRUCK LANE

PROPOSED WATER LINE "A"

STA 304+31.66
INSTALL 8" FIRE SERVICE VAULT
PER C.O.W. SPECIFICATIONS
SEE DETAIL SHEETS
N 1678235.94
E 1623182.59

END OF ONE-CALL LOCATE

CAUTION!!! EXISTING UTILITY LINES

INSTALL 39.37 LF 8" PVC

CAUTION!!! EXISTING OVERHEAD UTILITY LINE

INSTALL 65.81 LF 8" PVC

305+00 — 1'-11 3/4" — 305+62

EXISTING 12" WATER MAIN

DIRECTIONAL DRILL 32–FEET UNDER EXISTING CITY ROAD (RIDGE RD S)

SAW CUT APPROX. 32 LF OF ASPHALT SEE DETAIL SHEETS

S RIDGE ROAD (ASPHALT SURFACE)

26' FIRE TRUCK LANE

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0 20'-0" 20'-0" 40

SCALE: 1" = 20'

SCALE:
PLAN: 1"=20'
PROFILE: 1"=20' HORIZ.
1"=5' VERT.

NOTE:
ALL DIRECTIONAL DRILLED LINES TO BE RESTRAINED.

Tap Location: From Centerline S. Ridge and W. Mariposa Lane: 395 ft South &15 ft East to 8" Tap Fire Line.

8" V 54709

STA 305+52.34, END WATER LINE A
CONNECT TO EXISTING 12" WATER MAIN
INSTALL 1 – 12"X8" TAPPING SLEEVE & VALVE, TAP TO BE INSTALLED BY CITY OF WICHITA CONTRACTOR TO REIMBURSE CITY FOR TAP FEES
TOP OF VALVE BOX ELEV=1318.79
SEE DETAIL SHEETS
N 1678239.51
E 1623303.21

STA 304+86.53
INSTALL
1 – 8"X8"X4" TEE (FC. N)
1 – 8" VALVE (FC. W)
N 1678237.56
E 1623237.43

STA 304+43.66
INSTALL INSTALL 1 – 45° BEND
N 1678236.29
E 1623194.58

INSTALL 12.00 LF 8" PVC

INSTALL 3.50 LF 8" DICL

STA 304+47.16
INSTALL 1 – 45° BEND
N 1678236.40
E 1623198.08

INSTALL 235.88 LF 8" PVC

PROPOSED FIRE LINE

Fire Service Vault Location: From Centerline S. Ridge and W. Mariposa Lane:
395ft South & 100ft West to center of 8" Fire Service Vault.

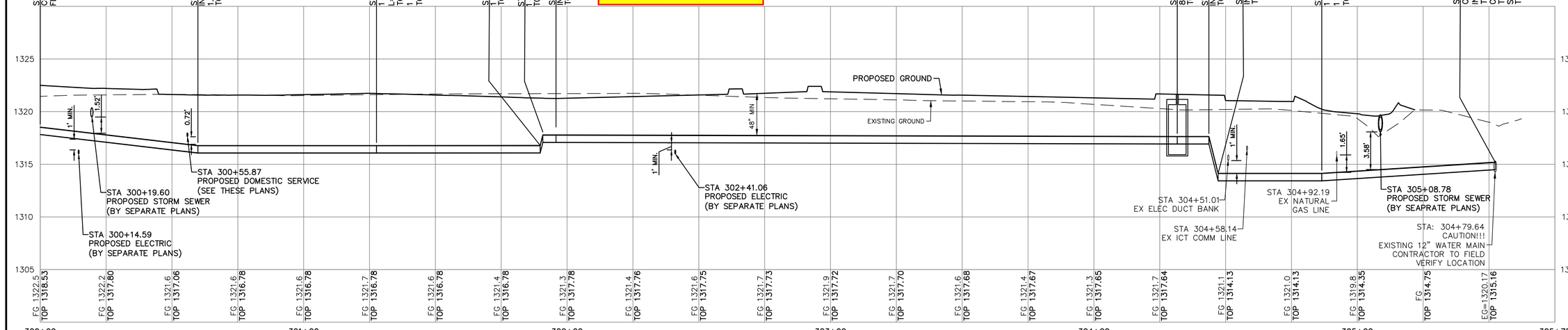
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90 Deg bend Location From Centerline S. Ridge and W. Mariposa Lane: 395 ft South & 328.5 ft West to 8" 90 Degree Bend Left.

NOTE:
Water Line Fire 8"
Badger Meter # 220953663,
Reading 000076.83 CF
ERT # 77310317

NOTE:
Datum: Center of intersection, S. Ridge, and W. Mariposa

WATER LINE – FIRE



REV	DATE	DESCRIPTION
0	08/22/23	INITIAL ISSUE

LDO CS JML
DSN DWN CHK

LEON D. OSBOURN
CONCENSED
9772
8/22/2023
KANSAS
PROFESSIONAL ENGINEER

LEON D. OSBOURN
ENGINEER
KS # 9772

KAW VALLEY ENGINEERING
200 N. EMPORIA, SUITE 100
WICHITA, KANSAS 67202
PH. (316) 440-4304
wh@kvenrg.com | www.kvenrg.com

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24

AIRPORT HOTEL
HARRY ST & RIDGE RD
WICHITA, KANSAS

WATER LINE IMPROVEMENTS
WATER LINE - FIRE - PLAN & PROFILE

PROJ. NO.	G22_2268
DESIGNER	SRB
DRAWN BY	KS
CFN	2268WPP
SHEET	2
REV	0

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.

Water Line A 4" domestic was relocated due to mechanics room location See redline as new location

STA 350+08.00
INSTALL 1 – 90° BEND LEFT
SEE DETAIL SHEETS
N 1678436.09
E 1622944.68

STA 350+00.00
CONNECT DOMESTIC LINE TO BLDG
N 1678436.33
E 1622952.68

INSTALL 8.00 LF
4" DICL

Riser Location From Centerline S. Ridge and W. Mariposa Lane:
222 ft South & 289.5 ft West to 4" PVC 90° Bend up to 4" DICL Domestic Line A Riser connection.

INSTALL 202.10 LF
4" PVC

PROPOSED HOTEL
49,028 SF±

SEE CIVIL CONSTRUCTION DOCUMENTS FOR DEVELOPMENT PLANS

26' FIRE TRUCK LANE

S RIDGE ROAD
(ASPHALT SURFACE)

STA 354+58.47
INSTALL 1 – 45° BEND
N 1678241.43
E 1623198.93

INSTALL 3.50 LF
4" DICL

STA 354+54.97
INSTALL 1 – 45° BEND
N 1678241.32
E 1623195.43

STA 354+49.97
INSTALL
1 – 3" DOMESTIC SERVICE VAULT
PER C.O.W. SPECIFICATIONS
N 1678241.17
E 1623190.43

INSTALL 38.37 LF
4" PVC

STA 354+96.84
INSTALL 1 – 90° BEND LEFT
N 1678242.56
E 1623237.28

INSTALL 2.50 LF
4" DICL

CAUTION!!!
EXISTING OVERHEAD UTILITY LINE

EXISTING 12" WATER MAIN

PROPOSED ELECTRIC
(BY SEPARATE PLANS)
CONTRACTOR TO COORDINATE WITH AIRPORT AUTHORITY

26' FIRE TRUCK LANE

PROPOSED WATER LINE A

INSTALL 239.87 LF
4" PVC

PROPOSED FIRE LINE

STA 352+10.10
INSTALL 1 – 90° BEND LEFT
N 1678234.08
E 1622950.66

STA 354+99.34
INSTALL 1 – 4" VALVE
N 1678240.06
E 1623237.35

INSTALL 2.50 LF
4" DICL

STA 355+01.84 (WL A)=
STA 305+13.84 (WL FIRE)
CONNECT TO
8"X8"X4" TEE (N)
N 1678237.56
E 1623237.43

NOTE: 7-18-24 Domestic meter info: Water Line A- 4" Badger Meter # 23002829, Reading 0000000000.189 ERT # 74950274

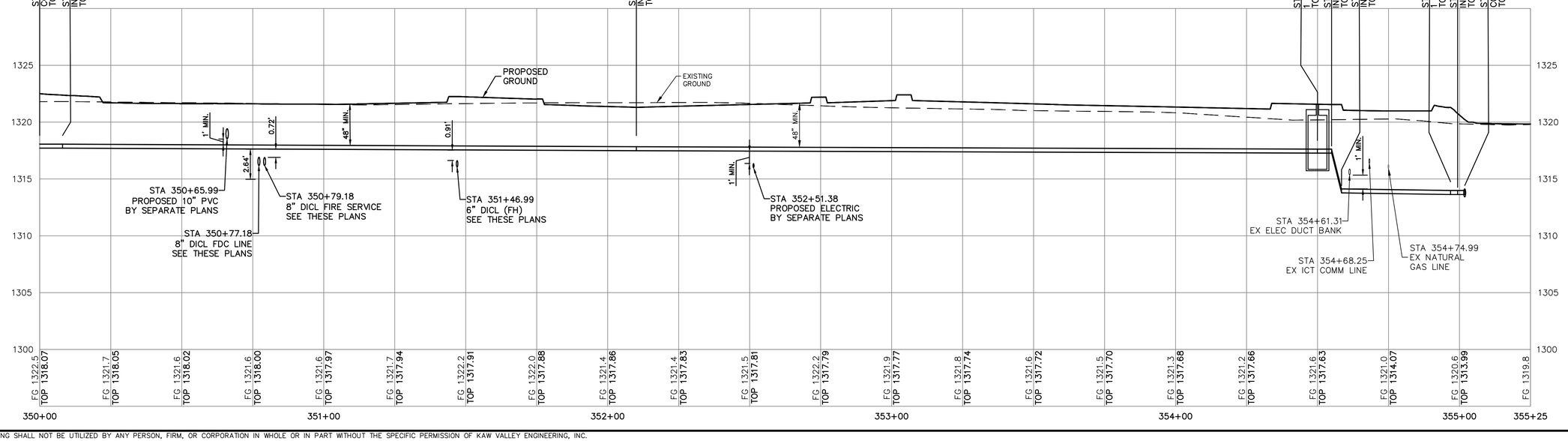
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SCALE: 1" = 20'

SCALE:
PLAN: 1"=20'
PROFILE: 1"=20' HORIZ.
1"=5' VERT.

WATER LINE A



REV	DATE	DESCRIPTION	DSN	DWN	CHK
0	08/22/23	INITIAL ISSUE	LDO	CS	JML

LEON D. OSBOURN
CONSULTING
9772
8/22/2023
KANSAS
PROFESSIONAL ENGINEER

LEON D. OSBOURN
ENGINEER
KS # 9772

200 N. EMPORIA, SUITE 100
WICHITA, KANSAS 67202
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wh@kveng.com | www.kveng.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24

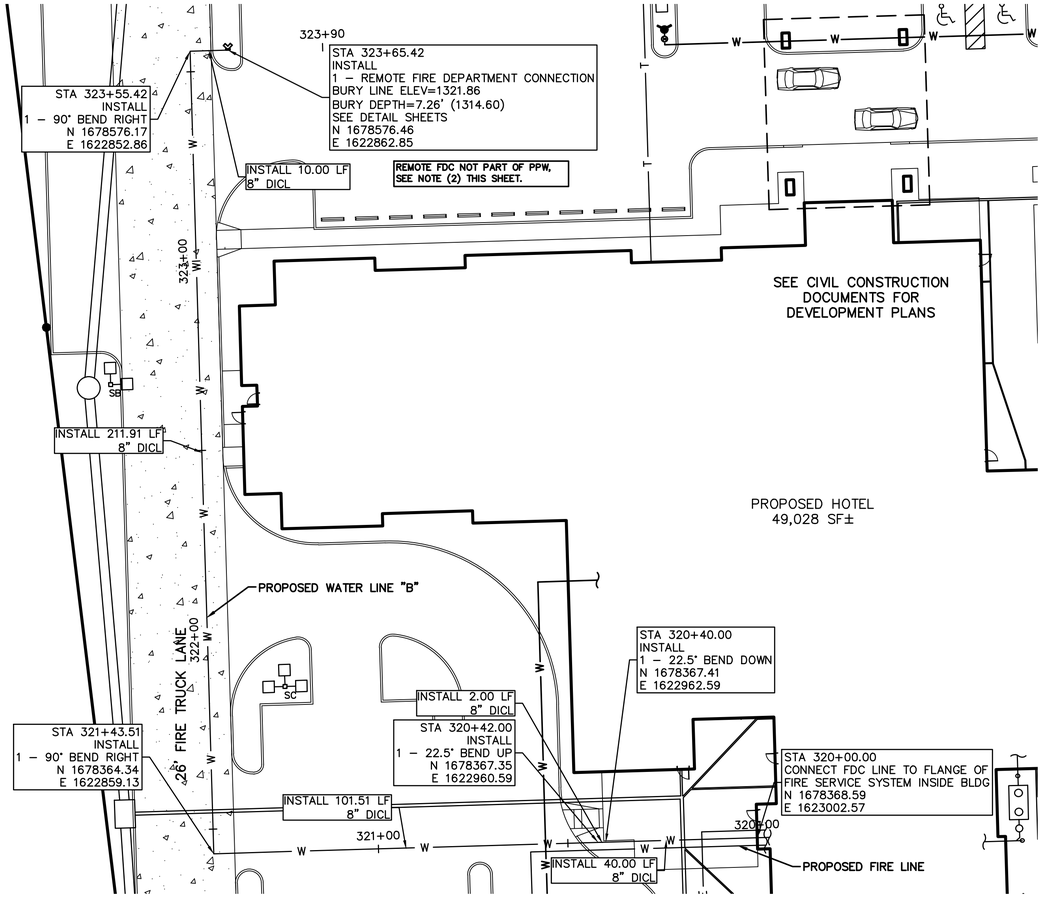
AIRPORT HOTEL
HARRY ST & RIDGE RD
WICHITA, KANSAS

WATER LINE IMPROVEMENTS
WATER LINE A - PLAN & PROFILE

PROJ. NO.	
G22_2268	
DESIGNER	DRAWN BY
SRB	KS
CFN	
2268WPP	
SHEET	REV
3	0

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For Information Only. Not part of PPW.

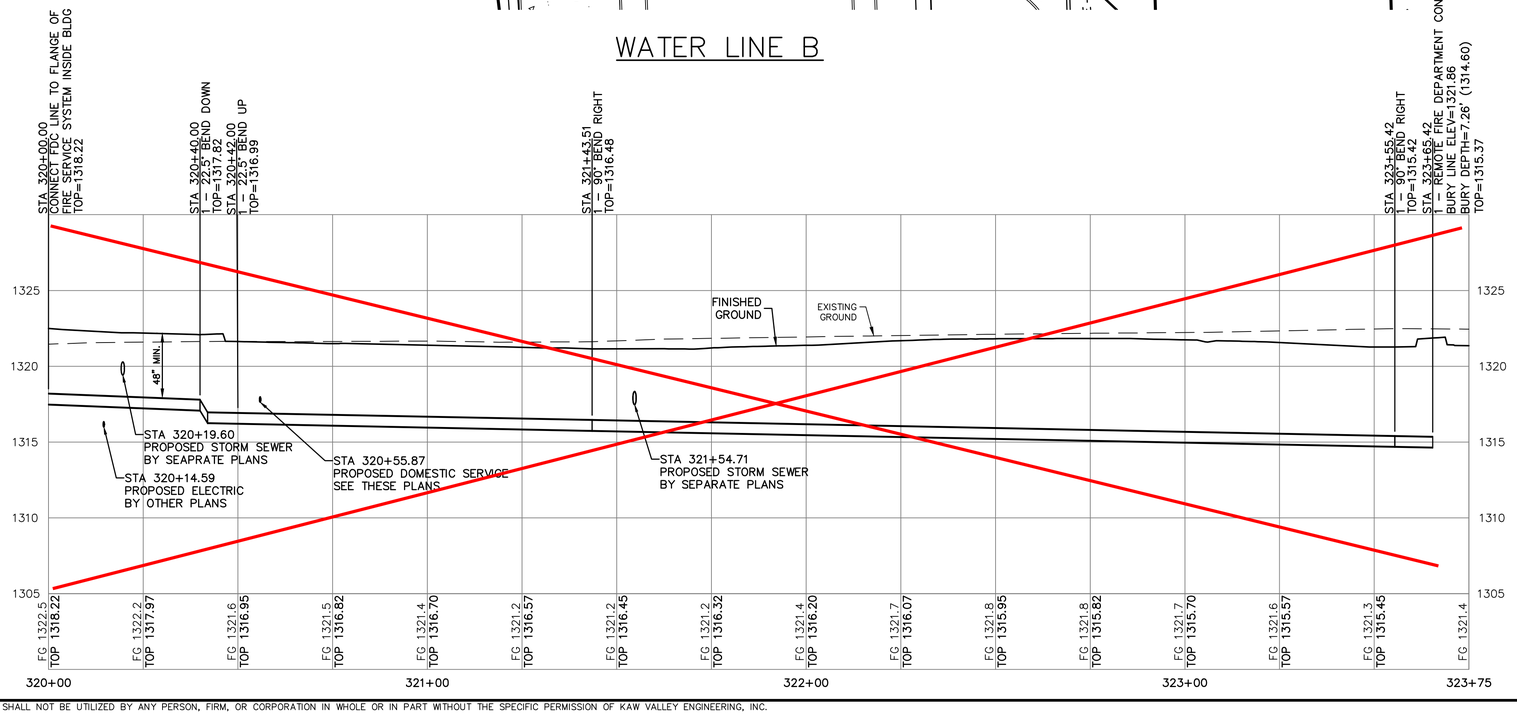


SCALE:
PLAN: 1"=20'
PROFILE: 1"=20' HORIZ.
1"=5' VERT.

NOTE:
1. FDC PIPE MUST MAINTAIN POSITIVE DRAINAGE FROM BUILDING CONNECTION TO AUTOMATIC BALL DRIP AT THE FDC.
2. CONTRACTOR TO COORDINATE THE CONSTRUCTION INSPECTION OF THE REMOTE FDC LINE WITH THE CITY OF WICHITA FIRE DEPARTMENT.

Not Insp. by KVE

WATER LINE B



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REV	DATE	DESCRIPTION	DSN	DWN	CHK
0	08/22/23	INITIAL ISSUE	LDO	CS	JML

LEON D. OSBOURN
RECOMMENDED
9772
8/22/2023
KANSAS
PROFESSIONAL ENGINEER

LEON D. OSBOURN
ENGINEER
KS # 9772

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PH. (316) 440-4304
wh@kveng.com | www.kveng.com
KAW VALLEY ENGINEERING

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AIRPORT HOTEL
HARRY ST & RIDGE RD
WICHITA, KANSAS

WATER LINE IMPROVEMENTS
WATER LINE B - PLAN & PROFILE

PROJ. NO.	G22_2268	
DESIGNER	SRB	DRAWN BY KS
CFN	2268WPP	
SHEET	4	REV 0

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NOTE:
Water Line C 8"
Badger Meter # 211688199,
Reading 000020.44 CF
ERT # 73774890

From Centerline S. Ridge and W. Mariposa Lane:
47 ft South &100 ft West to Cener of 8" Fire Service Vault on Water Line C

Private FH 17531
6" V 56491

Private FH 17531

From Centerline S. Ridge and W. Mariposa Lane:
47 ft South & 295 ft West to 8" Tee Water Line C.

REMOTE FDC NOT PART OF PPW, SEE NOTE (2) THIS SHEET.

STA 308+00.00
INSTALL
1 – FIRE HYDRANT ASSEMBLY (FC. N)
L= 4' 6" DICL SJ PIPE (NORTH)
TOP VALVE BOX ELEV.=1322.04
CAP WEST END OF 8"X8"X6" TEE
N 1678577.87
E 1622978.20

307+75
308+00
309+00

STA 310+17.65
INSTALL 1 – 45° BEND UP
N 1678584.31
E 1623195.75

STA 310+14.34
INSTALL 1 – 45° BEND DOWN
N 1678584.21
E 1623192.45

STA 309+97.35
INSTALL 8" FIRE SERVICE VAULT
PER C.O.W. SPECIFICATIONS
SEE DETAIL SHEETS
N 1678583.71
E 1623175.46

PROPOSED WATER LINE C

INSTALL 197.35 LF 8" PVC

CAUTION!!!
PROPOSED STORM SEWER LINE B
(BY SEPARATE PLANS)

INSTALL 16.99 LF 8" PVC

INSTALL 3.31 LF 8" DICL

SEE CIVIL CONSTRUCTION DOCUMENTS FOR DEVELOPMENT PLANS

PROPOSED HOTEL
49,028 SF±

CAUTION!!!
EXISTING OVERHEAD UTILITY LINE

STA 310+77.71
INSTALL 1 – 45° BEND UP
N 1678586.08
E 1623255.79

S RIDGE ROAD
(ASPHALT SURFACE)

INSTALL 4.15 LF
8" DICL

W MARIPOSA LANE

STA 311+14.86
INSTALL 1 – 45° BEND UP
N 1678587.18
E 1623292.92

Tap Location: From Centerline S. Ridge and W. Mariposa Lane:
47 ft South & 17 ft East to Tap for Water Line C.

STA 311+14.86
INSTALL 1 – 12"X8" TAPPING SLEEVE
TAP TO BE INSTALLED BY CITY OF WICHITA
CONTRACTOR TO REIMBURSE CITY FOR TAP FEES
1 – VALVE ASS'Y, ANCHORED 8"
TOP OF VALVE BOX=1320.25
SEE DETAIL SHEETS
N 1678587.18
E 1623292.92

8" V 54708

71'-10"

INSTALL 60.06 LF
8" PVC

CAUTION!!!
EXISTING UTILITY LINES

CAUTION!!!
EXISTING UTILITY LINES

CAUTION!!!
PROPOSED SANITARY SEWER LINE A
(BY SEPARATE PLANS)

EXISTING 12" WATER MAIN

CONTRACTOR TO ENSURE STORM SEWER IS NOT DAMAGED WHEN TAPPING IN PROPOSED WATER LINE

PAVEMENT REPLACEMENT
& TRENCH COMPACTION
UNDER EXISTING CITY ROAD (RIDGE RD S)
PAVEMENT REPLACEMENT TO BE DONE BY PAVECUT PROGRAM
SEE DETAIL SHEETS

SAW CUT APPROX.
23 L.F. OF ASPHALT

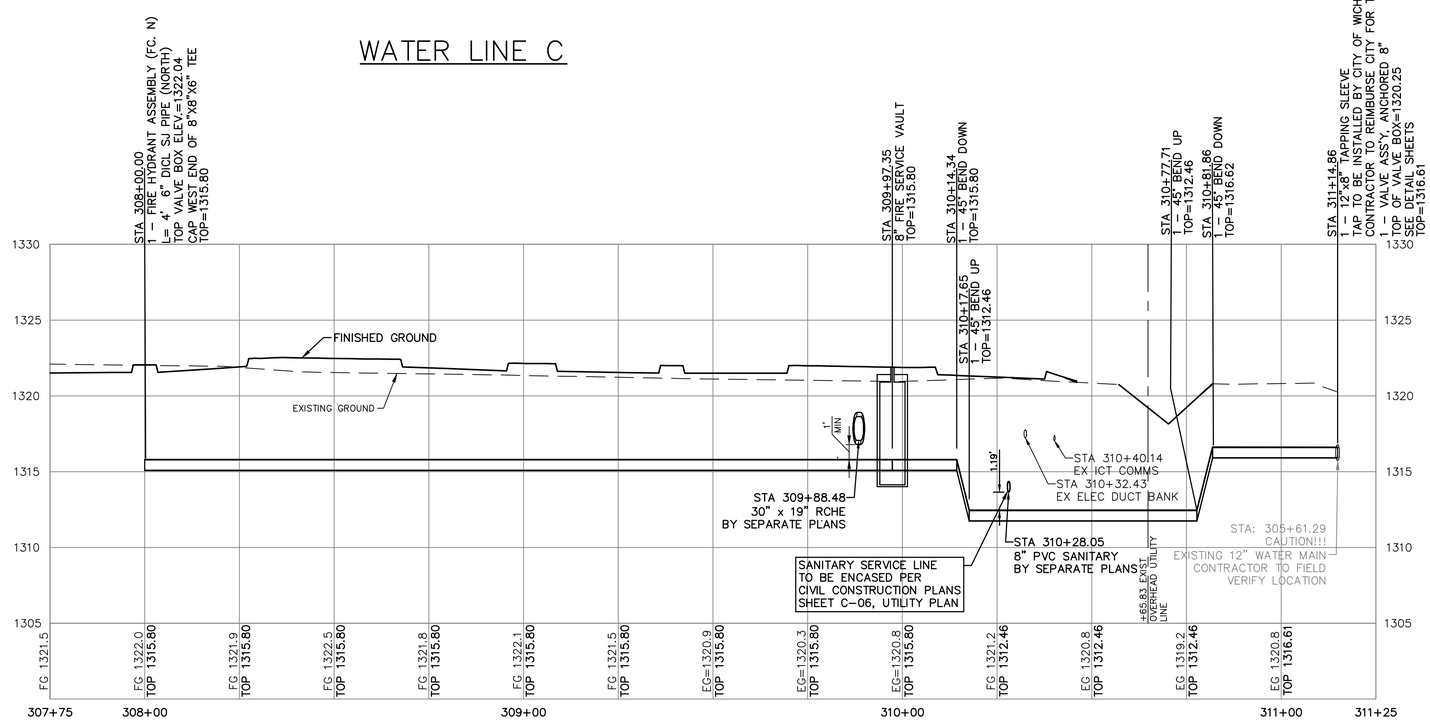
INSTALL 33.00 LF
8" PVC

STA 310+81.86
INSTALL 1 – 45° BEND DOWN
N 1678586.21
E 1623259.94

STA 311+14.86
1 – 12"x8" TAPPING SLEEVE
TAP TO BE INSTALLED BY CITY OF WICHITA
CONTRACTOR TO REIMBURSE CITY FOR TAP FEES
1 – VALVE ASS'Y, ANCHORED 8"
TOP OF VALVE BOX=1320.25
SEE DETAIL SHEETS
TOP=1316.81

SCALE:
PLAN: 1"=20'
PROFILE: 1"=20' HORIZ.
1"=5' VERT.

WATER LINE C



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LEON D. OSBOURN
CONSULTING
9772
8/22/2023
KANSAS
PROFESSIONAL ENGINEER

LEON D. OSBOURN
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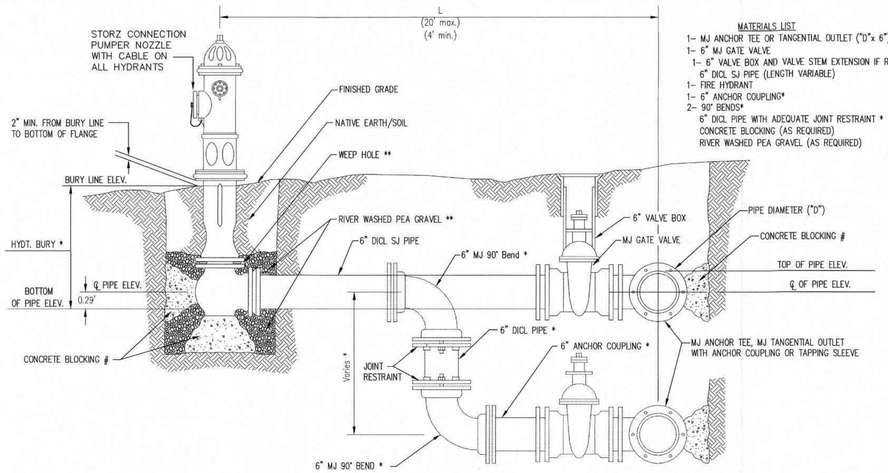
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113.
EXPIRES 12/31/24

AIRPORT HOTEL
HARRY ST & RIDGE RD
WICHITA, KANSAS

WATER LINE IMPROVEMENTS
WATER LINE C - PLAN & PROFILE

PROJ. NO.	C22_2268	
DESIGNER	SRB	DRAWN BY KS
CFN	2268WPP	
SHEET	5	REV 0

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

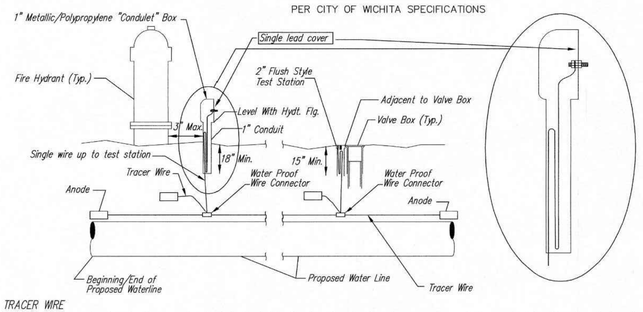
* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DICL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS, 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 HYDRANT ASSEMBLY

PER CITY OF WICHITA SPECIFICATIONS



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 called 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" "condulet" style 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.*

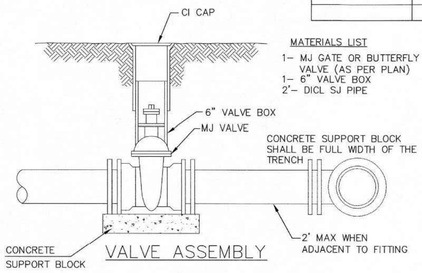
ANODES

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.

TRACER WIRE DETAIL

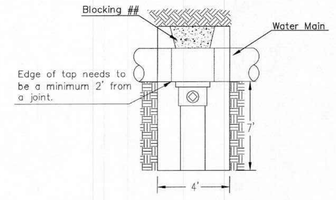
COST IS SUBSIDIARY TO PIPE INSTALLATION

FIRE HYDRANTS REQUIRED				
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
301+27.67	1322.25	1316.78	6.13'	1'
308+00.00	1322.03	1315.80	6.89'	2'



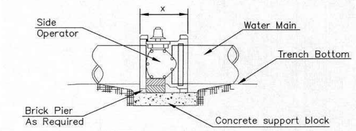
MATERIALS LIST
1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1- 6" VALVE BOX
2'- DICL SJ PIPE

VALVE ASSEMBLY



CITY TAP

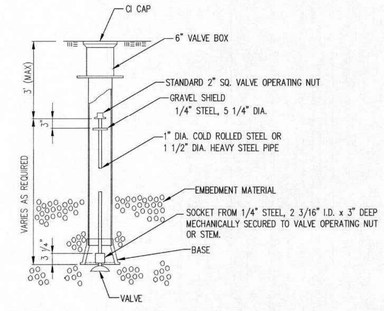
When the City of Wichita makes tap, blocking is to be done by Contractor



NOTES

1. This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
2. 6" Valve Box and Cover required per City of Wichita Std. Specifications.
3. Conc. Support Block to be full width of trench.

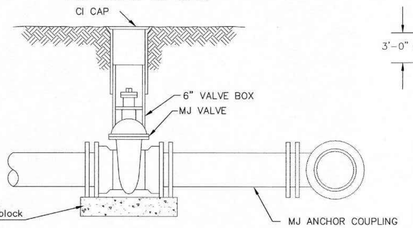
CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



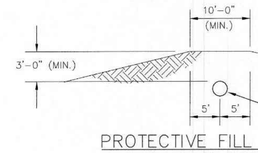
VALVE STEM EXTENSION DETAIL

NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.

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

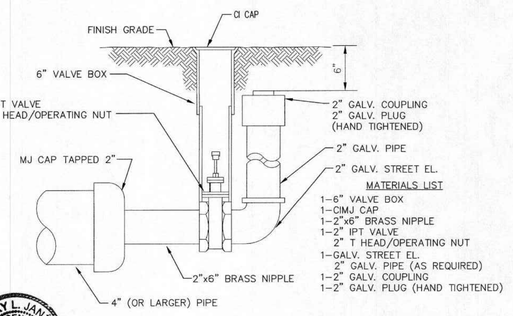


ANCHORED VALVE ASSEMBLY



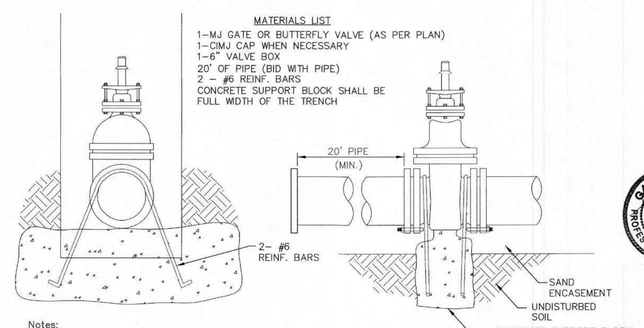
PROTECTIVE FILL DETAIL

MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 5'. (COST SUBSIDIARY TO PIPE INSTALLATION)



MATERIALS LIST
1-6" VALVE BOX
1-CIMJ CAP
1-2"x6" BRASS NIPPLE
1-2" IPT VALVE
2" T HEAD/OPERATING NUT
1-GALV. STREET EL.
2" GALV. PIPE (AS REQUIRED)
1-2" GALV. COUPLING
1-2" GALV. PLUG (HAND TIGHTENED)

2" BLOWOFF ASSEMBLY



Notes:
1. 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.
2. The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
3. All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

THRUST AT VALVES	
VALVE	THRUST AT 150 #/in²
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER 10/27/16

REVISED: OCTOBER 2016

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STANDARD WATER ASSEMBLY DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

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

SHEET

WL-101

REV	DATE	DESCRIPTION	DSN	DWN	CHK
					JML
				CS	
			LDO		
0	08/22/23	INITIAL ISSUE			

LEON D. OSBOURN CONSULTANT 9772 8/22/2023 KANSAS PROFESSIONAL ENGINEER

LEON D. OSBOURN
ENGINEER
KS # 9772

KAW VALLEY ENGINEERING
200 N. EMPORIA, SUITE 100
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AIRPORT HOTEL
HARRY ST & RIDGE RD
WICHITA, KANSAS

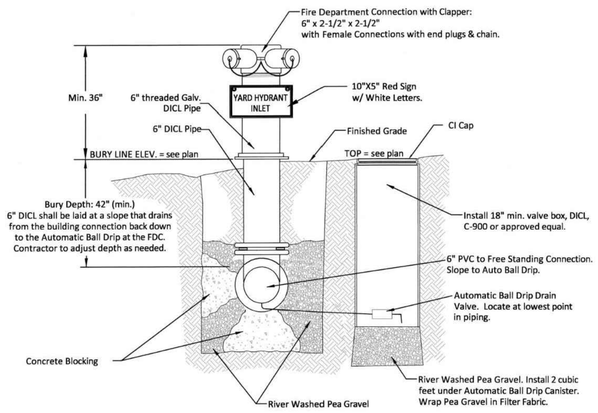
WATER LINE IMPROVEMENTS
STANDARD WATER ASSY DETAIL

PROJ. NO.	G22_2268
DESIGNER	SRB
DRAWN BY	KS
CFN	2268WDET
SHEET	7
REV	0

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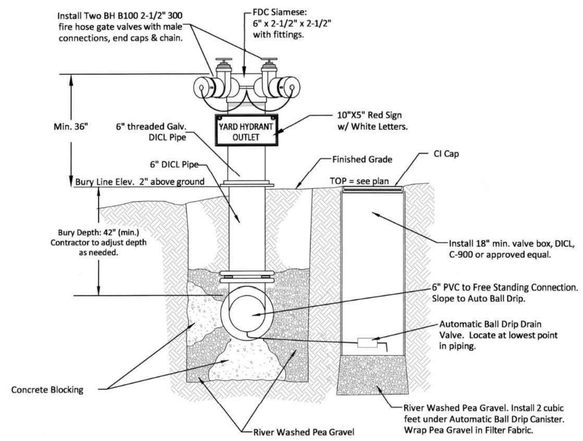
FREE STANDING YARD HYDRANT (also called Dry Fire Line)

Inlet and Outlet to be used together to provide fire hydrant coverage on the far side of a building.



1 FREE STANDING YARD HYDRANT INLET
NOT TO SCALE

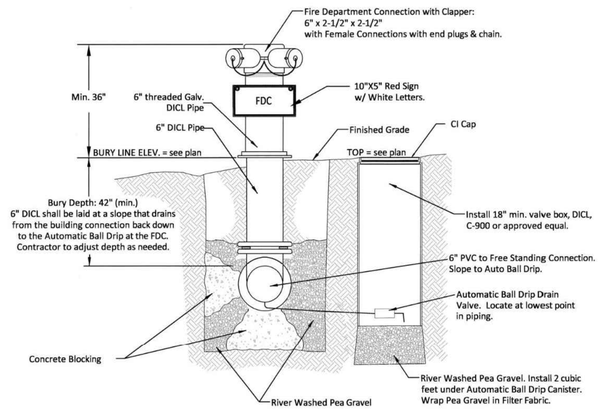
To be located within 150' of a Fire Hydrant



2 FREE STANDING YARD HYDRANT OUTLET
NOT TO SCALE

REMOTE FIRE DEPARTMENT CONNECTION

Same construction as Free Standing Yard Hydrant Inlet, with different sign. Used to boost interior sprinkler systems.



REMOTE FIRE DEPARTMENT CONNECTION
NOT TO SCALE

To be located within 150' of a Fire Hydrant

GARY L. JANZEN LICENSED 16294 KANSAS PROFESSIONAL ENGINEER
09/18/19

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

FREE STANDING YARD HYDRANT AND REMOTE FDC DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
		SEPTEMBER 2019

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

SHEET

ML-105

REV	DATE	DESCRIPTION	DSN	DWN	CHK
0	08/22/23	INITIAL ISSUE	LDO	CS	JML

LEON D. OSBOURN LICENSED 9772 8/22/2023 KANSAS PROFESSIONAL ENGINEER

LEON D. OSBOURN
ENGINEER
KS # 9772

KAW VALLEY ENGINEERING
200 N. EMPORIA, SUITE 100
WICHITA, KANSAS 67202
PH. (316) 440-4304
wh@kveng.com | www.kveng.com

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24

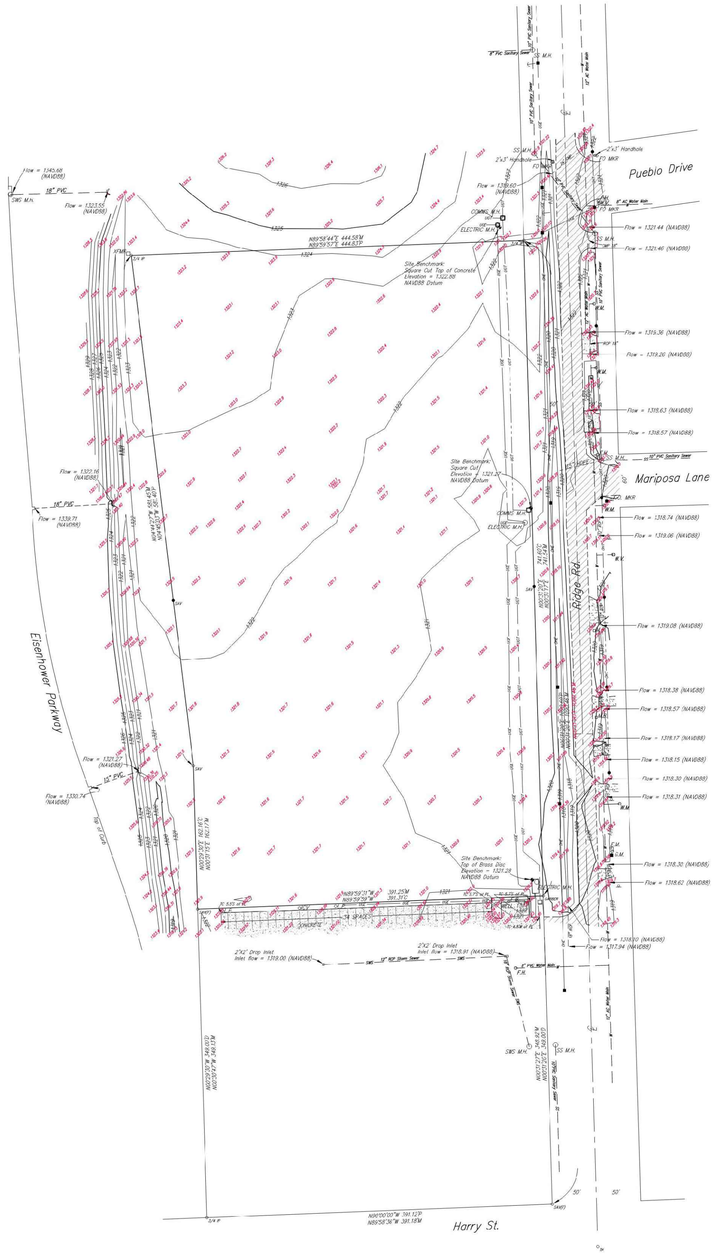
AIRPORT HOTEL
HARRY ST & RIDGE RD
WICHITA, KANSAS

WATER LINE IMPROVEMENTS
FREE STANDING YARD HYDRANT DETAIL

PROJ. NO.	
G22_2268	
DESIGNER: SRB	DRAWN BY: KS
CFN: 2268WDET	
SHEET: 11	REV: 0

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.

ARCHITECTURAL SURVEY



State of Kansas)
) SS
Sedgwick County)

We, Savoy Company, P.A., Surveyors in aforesaid County and State do hereby certify that, under the supervision of the undersigned, we did on this 20th day of June, 2022, survey the following described property.

Lot 1, Block 1, Mid-Continent Airport 2nd Addition to Wichita, Sedgwick County, Kansas except the South 349 feet thereof.

There are no encroachments onto said Parcel by buildings on adjacent parcels.

The accompanying sketch is a true and correct exhibit of said survey.

Surveyor
Matt L. Savoy PS #788

1" = 50'
P = Platted
M = Measured
C = Calculated
Pro = Prorated

LEGEND
- U = GAS MAIN
- OHT = OVERHEAD TELEPHONE
- OHE = OVERHEAD ELECTRIC
- RCP = REINFORCED CONCRETE PIPE
- SS = SANITARY SEWER
- SWS = STORM WATER SEWER
- UGE = UNDER GROUND ELECTRIC
- UGT = UNDER GROUND TELECOMMUNICATIONS
- M.H. = MANHOLE
- 3/4" IP ..... 3/4" IRON PIPE (FOUND, ORIGIN UNKNOWN)
- CARBER ..... 1/2" REBAR W/CARBER CAP (FOUND)
- SAVE ..... 1/2" REBAR W/SAVOY CAP (FOUND)
- SAV ..... 1/2" REBAR W/SAVOY CAP (SET)
- W ..... CITY OF WICHITA CONTROL THIMBLE (FOUND)
- B.M. ..... BENCH MARK
- E.B. ..... ELECTRIC BOX
- E.M. ..... ELECTRIC METER
- F.H. ..... FIRE HYDRANT
- F.O. MKR ..... FIBER OPTIC MARKER
- G.M. ..... GAS METER
- I.C.V. ..... IRRIGATION CONTROL VALVE
- L.P. ..... LIGHT POLE
- M.B. ..... MAIL BOX
- P.P. ..... POWER POLE
- S ..... SIGN
- T.P. ..... TELEPHONE POLE
- W.E.L. ..... WATER WELL
- W.M. ..... WATER METER
- W.V. ..... WATER VALVE
- XFMR ..... ELECTRIC TRANSFORMER

Savoy Company, P.A.
Land Surveyors
433 N. Hydraulic, Wichita, KS 67211-1911
PH (316) 265-0805
FAX (316) 265-0275
www.savoyco.com

PROJECT NO. 22A421457 A

20 JUNE 2022

REV	DATE	DESCRIPTION	DSN	DWN	CHK
0	08/22/23	INITIAL ISSUE	LDO	CS	JML

LEON D. OSBOURN
LICENSED
9772
8/22/2023
KANSAS
PROFESSIONAL ENGINEER

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WATER LINE IMPROVEMENTS
SAVOY SURVEY

PROJ. NO. G22_2268
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REV 0

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