

GENERAL NOTES:

- The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.
- 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

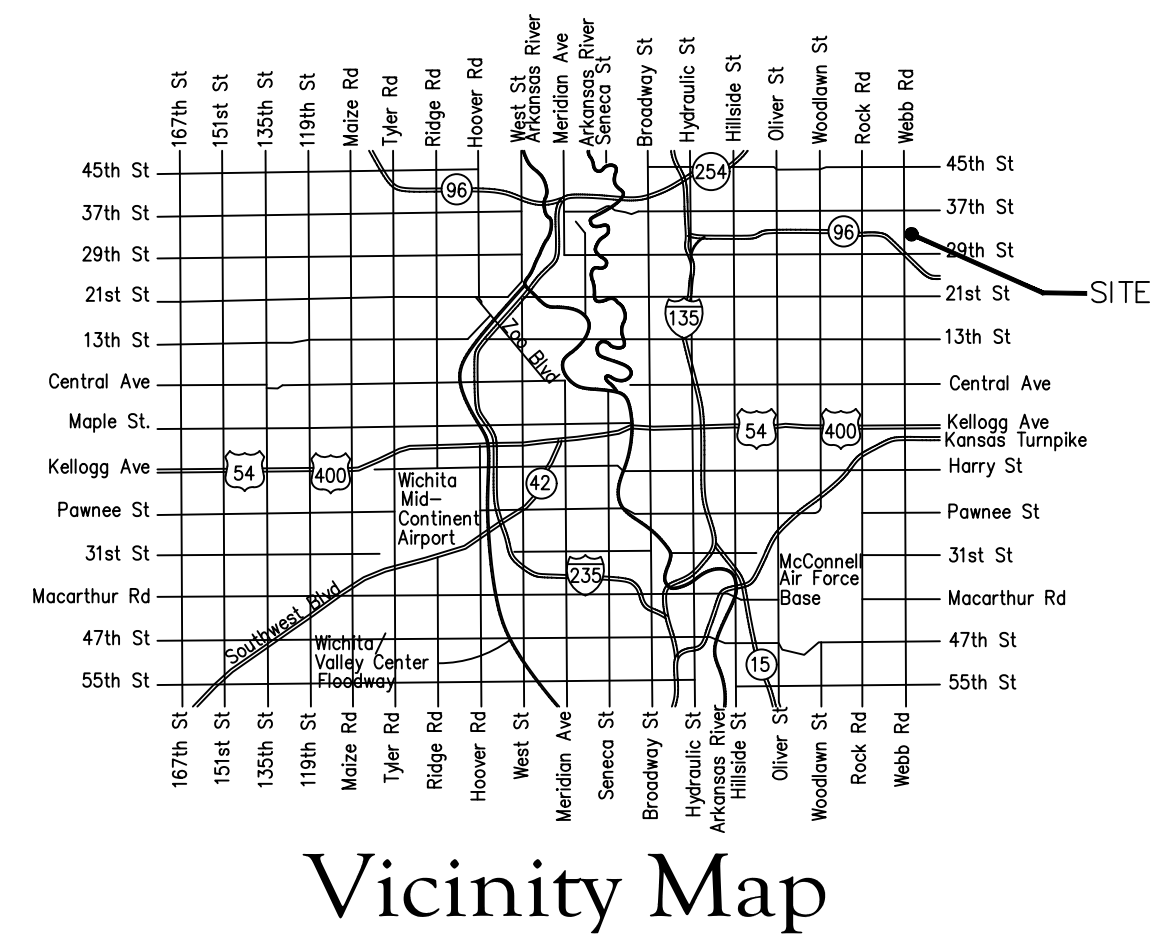
The Contractor must notify the following in case of an emergency:

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
Everg 1-800-544-4857
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- The Contractor shall notify the consultant engineer and Dawnita Reinhardt at 316-268-4574 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.
- If traffic will be impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, Mike Armour at trafftc@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 responsibility.
- All elevations shown are NAVD 88.
- All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.

- 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.
- All applicable fees (tap, equity, in lieu of & main benefit) must be paid before any work on this project can commence.
- City maintenance of water mains ends at right-of-way or easement line or within two feet of vault.
- 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.
- 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.
- 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.
- 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 performed during non-peak hours.
- 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.
- 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.
- Any extension greater than one length of pipe shall require testing.
- Any existing joint exposed during excavation shall be replaced if within four feet of proposed joint.
- 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.
- 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.
- 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.
- Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.
- Wichita Fire Department inspections may be scheduled by calling 316-268-4574.
- 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.
- 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.
- 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.

WATER DISTRIBUTION SYSTEM to serve **Colonel James Jabara Airport (AAO)** 3336 N. Jabara Road CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E. City Engineer
Project Number
2023-039059PPW (54030980)



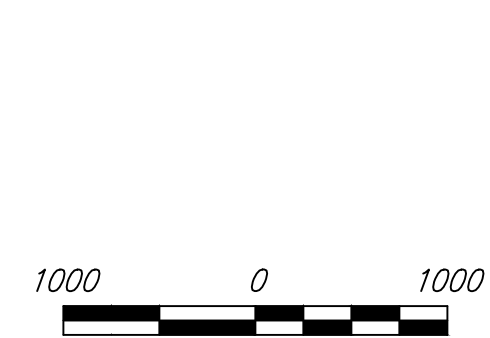
MATERIALS TABLE			
ITEM	TYPE	MANUFACTURER	QTY.
6" WL Pipe	C900 DR18 PVC	North American Pipe Co.	190.3 LF
6" WL Pipe	DI 350/50	American Pipe Co	19.0 LF
6" 45° Bend	DIMJ CL350	Star Pipe Products	2 Ea.
6" 22.5° Bend	DIMJ CL350	Star Pipe Products	1 Ea.
6" 11.25° Bend	DIMJ CL350	Star Pipe Products	1 Ea.
6" Gate Valve	MJ C515	Clow	1 Ea.
12" x 6" Tapping Sleeve	3460CS	PowerSeal Pipeline Prod. Corp.	1 Ea.
6" PVC joint res. coupler	Mega-Lug	EBAA Iron	9 Ea.
6" DI joint res. coupler	Mega-Lug	EBAA Iron	8 Ea.

Sheet Index

- Title Sheet
- Project Layout Plan
- Plan & Profile
- Erosion Control Plan
- Fire Protection Cover Sheet
- Fire Protection Plan
- Details/Specific/Erosion Control

Benchmarks

See Project Layout Plan



RECORD DRAWINGS
Client: City of Wichita
Contractor: McCullough Construction
Superintendent: Rob Grey
Foreman: Jose Romero
Inspector: E.L. Strecker
Inspection Firm: Garver
PDF BY: ELS 02-07-24

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

Engineering Shawn Mellies 12/20/2023
Utilities Greg Lolley 12/20/2023
Fire Dept. Jose Ocadiz 12/20/2023

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 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 or Wichita Specifications and Standards and Special Provision (on file and available in the City Engineer's Office) or on the City's Website.

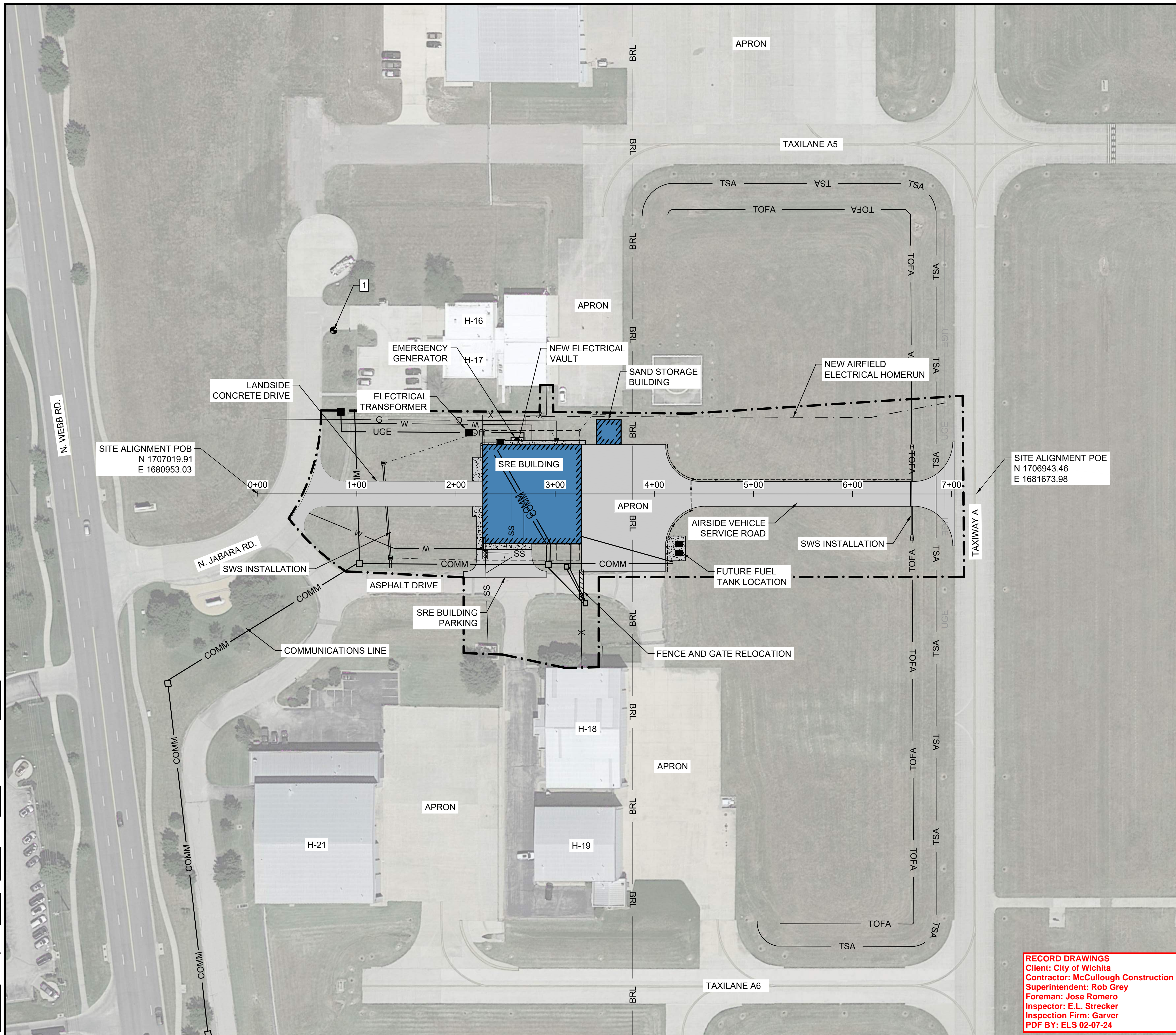
Private Property:
Installation and testing for the fire protection line is to be performed by a City of Wichita licensed fire protection contractor in accordance with the fire codes as adopted by the City of Wichita. All material and construction practices for the fire protection line shall comply with 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.

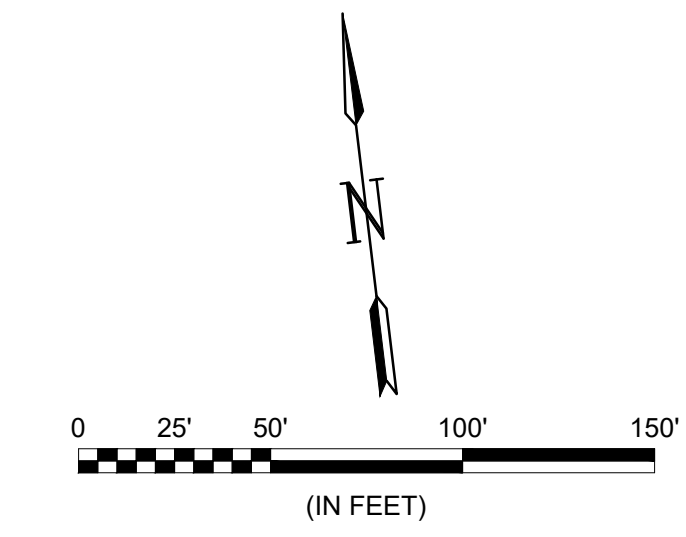


November 2023
Garver, LLC
1995 Midfield Road
Wichita, Kansas 67209

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RECORD DRAWINGS
 Client: City of Wichita
 Contractor: McCullough Construction
 Superintendent: Rob Grey
 Foreman: Jose Romero
 Inspector: E.L. Strecker
 Inspection Firm: Garver
 PDF BY: ELS 02-07-24



LEGEND

	PROJECT LIMITS
	TSA TAXIWAY SAFETY AREA
	TOFA TAXIWAY OBJECT FREE AREA
	BRL BUILDING RESTRICTION LINE
	SURVEY CONTROL POINT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT PAVEMENT
	PROPOSED UNDERDRAIN
	PROPOSED FENCE
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER

- ### ITEMS OF WORK
- COMPLETE SITE GRADING AND DRAINAGE IMPROVEMENTS.
 - COMPLETE UTILITY SERVICE CONNECTIONS
 - CONSTRUCT LANDSIDE CONCRETE DRIVE, APRON, VEHICLE PARKING, AND AIRSIDE VEHICLE SERVICE ROAD.
 - CONSTRUCT NEW SRE BUILDING AND SAND/CHEMICAL STORAGE BUILDING
 - INSTALL NEW 25' WIDE AUTOMATED GATE AND SECURITY/PERIMETER FENCE.
 - INSTALL NEW ELECTRICAL VAULT EQUIPMENT AND EMERGENCY BACKUP GENERATOR.
 - SEED AND SOD DISTURBED AREAS.

- NOTES:**
- HORIZONTAL CONTROL ARE BASED ON INFORMATION FROM THE WICHITA/SEDGWICK COUNTY CORS USING GPS RTK.
 - VERTICAL CONTROL WAS ESTABLISHED BY GATHERING STATIC DATA ON POINT 1 AND PROCESSING INFORMATION THROUGH NGS OPUS, ALL OTHER ELEVATIONS WERE DERIVED BY DIFFERENTIAL LEVELING FROM POINT 1.
 - BASIS OF BEARINGS IS KANSAS STATE PLANE COORDINATE SYSTEM NAD83 ZONE SOUTH (1502).
 - ELEVATIONS ARE NAVD88 GEOID 12B.

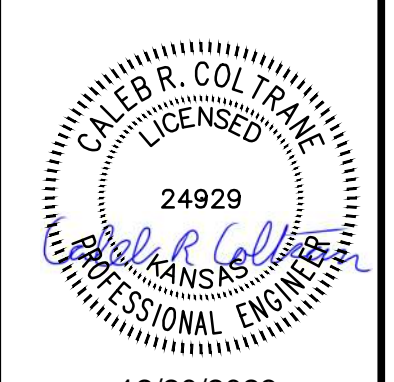
SURVEY CONTROL POINTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1707175.98	1681046.54	1426.30	BENCH MARK



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1995 Midfield Rd.
 Wichita, KS 67209
 (316) 264-8008



12/20/2023

REV.	DATE	DESCRIPTION



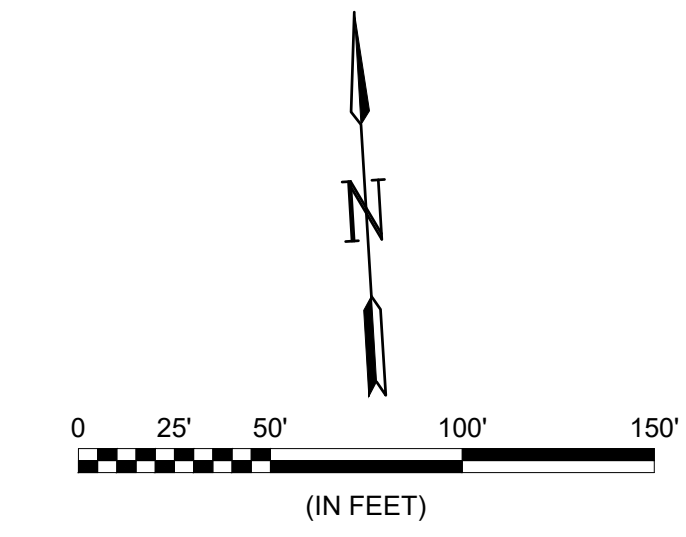
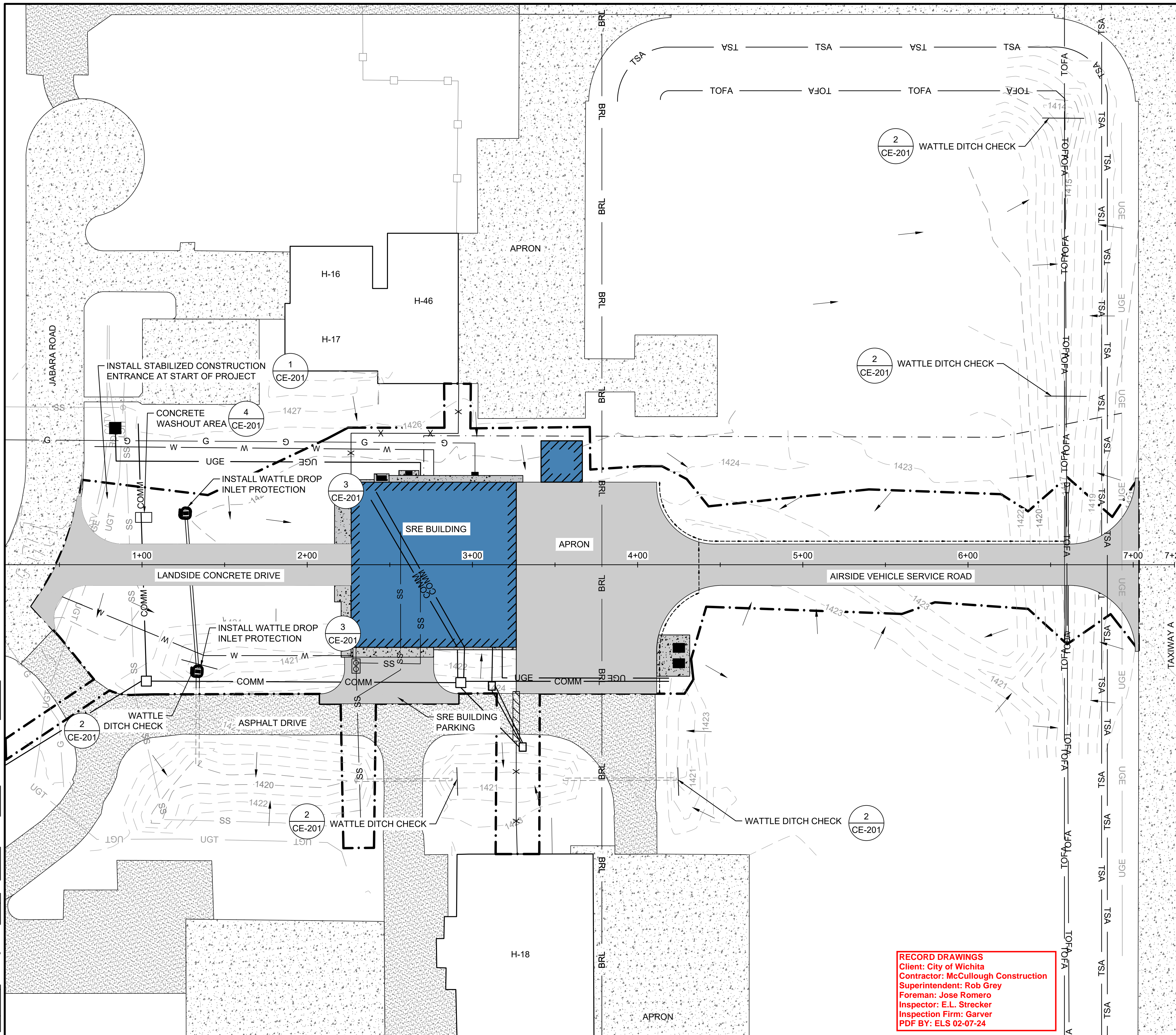
COLONEL JAMES JABARA AIRPORT
 WICHITA, KS
 CONSTRUCT SNOW REMOVAL EQUIPMENT BUILDING

PROJECT LAYOUT PLAN

JOB NO.: 22A17001
 DATE: MARCH 2023
 DESIGNED BY: CRC
 DRAWN BY: ERA

BAR IS ONE INCH ON ORIGINAL DRAWING
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
 DRAWING NUMBER
GI-101
 SHEET NUMBER
2

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LEGEND	
	DISTURBED BOUNDARY/ SEEDING LIMITS
	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT PAVEMENT
	PROPOSED FENCE
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER
	PROPOSED RCP
	EXISTING SWS
	EXISTING SANITARY SEWER
	EXISTING WATER LINE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UNDERGROUND COMMUNICATION
	EXISTING UNDERGROUND GAS LINE
	EXISTING CONTOURS
	EXISTING STORMWATER FLOW DIRECTION
	SILT FENCE
TOTAL DISTURBED AREA = 1.82 ACRES	

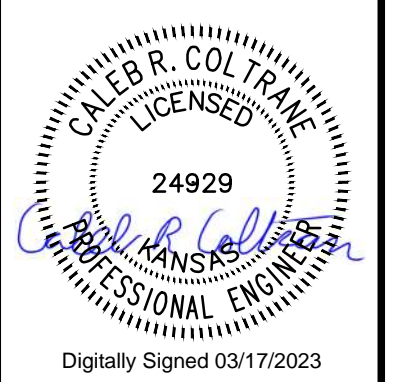
- NOTES:**
1. THE SYMBOLS SHOWN IN THIS SHEET REPRESENT EROSION CONTROL DEVICES AS DETAILED ON THE EROSION CONTROL DETAIL SHEET. THE SYMBOLS ARE NOT TO SCALE AND REPRESENT THE GENERAL LOCATION TO WHICH THE DEVICES ARE TO BE PLACED.
 2. EROSION AND SEDIMENT CONTROL FEATURES SHALL BE PLACED PRIOR TO THE EXCAVATION OPERATIONS.
 3. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL AND SEEDING OF STOCKPILES. THIS WORK IS SUBSIDIARY TO THE TEMPORARY EROSION CONTROL ITEM.
 4. CONCRETE WASHOUT SHALL BE LOCATED AS APPROVED BY THE ENGINEER.
 5. THE TEMPORARY EROSION CONTROL POLICIES SHOWN ON THE PLANS SHOW THE ENGINEERS ESTIMATE OF A MINIMUM EFFORT NEEDED TO MAINTAIN PROPER EROSION CONTROL DURING CONSTRUCTION. SEE THE SPECIFICATIONS FOR FURTHER INFORMATION.
 6. PAYMENT FOR SEEDING AND SODDING WITHIN THE DISTURBED AREA BOUNDARY SHALL BE PER T-901 AND T-904.
 7. RESTORATION OF DISTURBED AREAS OUTSIDE OF THE GRADING LIMITS SHALL BE SEEDDED AND SHALL BE CONSIDERED SUBSIDIARY TO ITEM P-156 TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, SILTATION CONTROL.
 8. SEE EROSION CONTROL DETAIL SHEET CE-201 FOR ADDITIONAL DEVICE DETAILS.

RECORD DRAWINGS
 Client: City of Wichita
 Contractor: McCullough Construction
 Superintendent: Rob Grey
 Foreman: Jose Romero
 Inspector: E.L. Strecker
 Inspection Firm: Garver
 PDF BY: ELS 02-07-24



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 Wichita, KS 67209
 (316) 264-8008



Digitally Signed 03/17/2023

REV.	DATE	DESCRIPTION



COLONEL JAMES
 JABARA AIRPORT
 WICHITA, KS
 CONSTRUCT SNOW REMOVAL
 EQUIPMENT BUILDING

**EROSION
 CONTROL PLAN**

JOB NO.: 22A17001
 DATE: MARCH 2023
 DESIGNED BY: CRC
 DRAWN BY: ERA

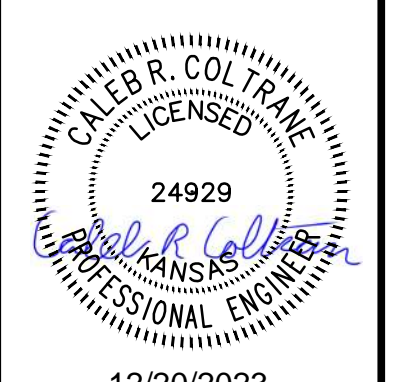
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DRAWING NUMBER
CE-101
 SHEET
 NUMBER **3**



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 (316) 264-8008



12/20/2023

REV.	DATE	DESCRIPTION	BY	ERA
1	04/14/23	ADDENDUM 1		



COLONEL JAMES JABARA AIRPORT
 WICHITA, KS
 CONSTRUCT SNOW REMOVAL EQUIPMENT BUILDING

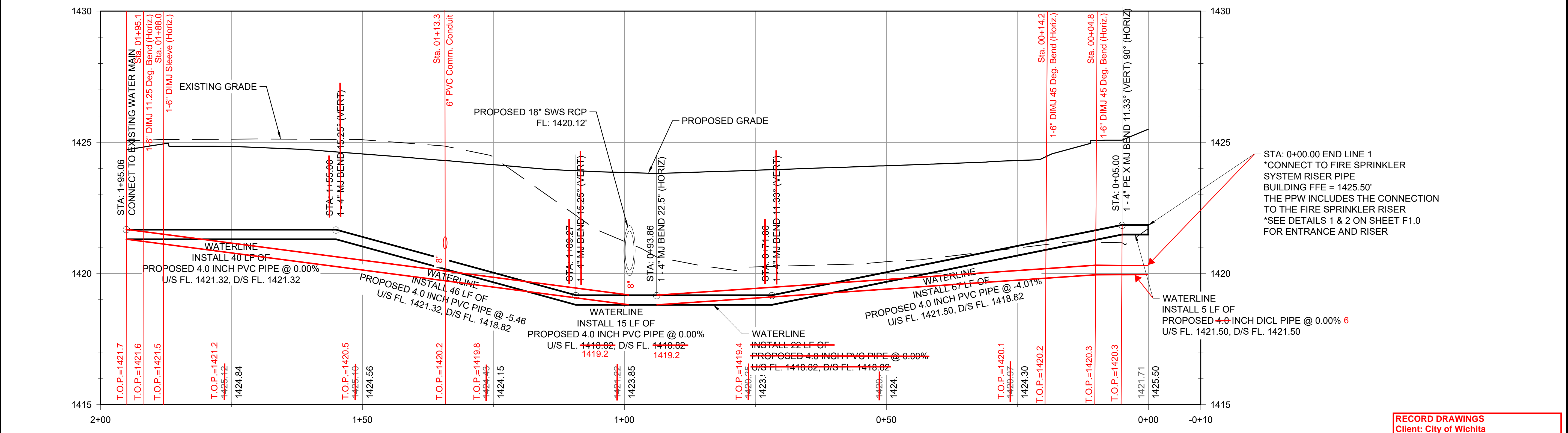
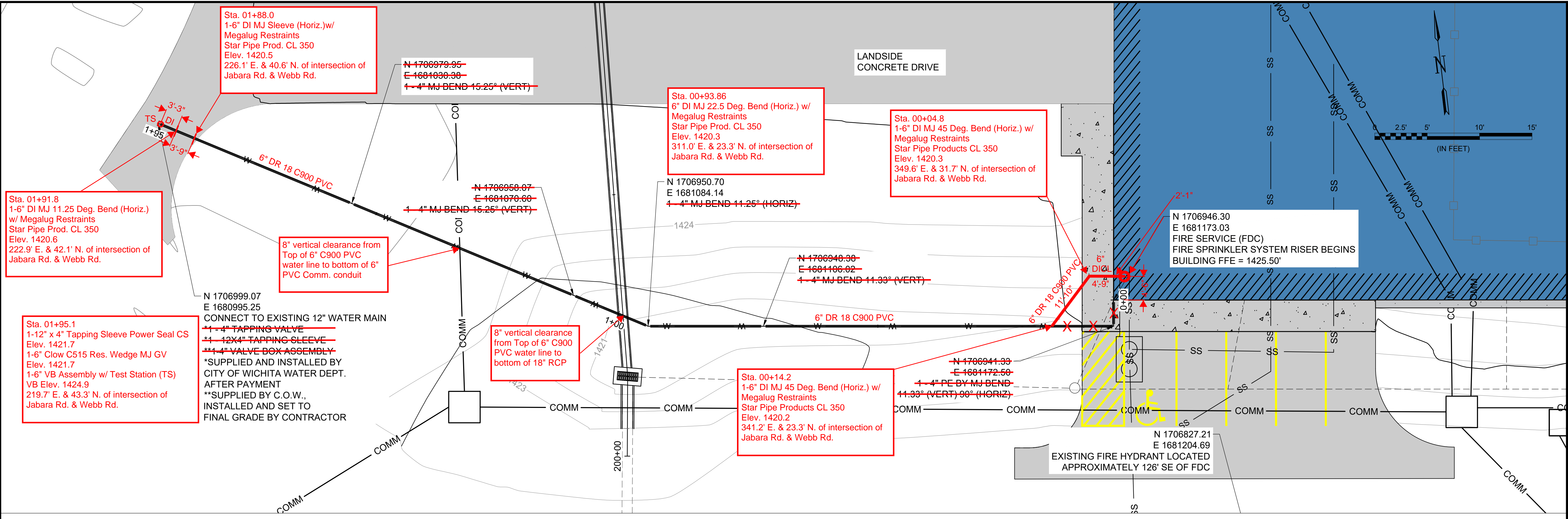
WATERLINE PLAN & PROFILE

JOB NO.: 22A17001
 DATE: MARCH 2023
 DESIGNED BY: CRC
 DRAWN BY: ERA

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 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
PPW
 SHEET NUMBER
4

RECORD DRAWINGS
 Client: City of Wichita
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 PDF BY: ELS 02-07-24



STA: 0+00.00 END LINE 1
 *CONNECT TO FIRE SPRINKLER SYSTEM RISER PIPE BUILDING FFE = 1425.50'
 THE PPW INCLUDES THE CONNECTION TO THE FIRE SPRINKLER RISER
 *SEE DETAILS 1 & 2 ON SHEET F1.0 FOR ENTRANCE AND RISER

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WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
T 316.262.4700
WDM Project # - 22055

BY: _____

DESCRIPTION: _____

DATE: _____

REV: _____

DATE: _____

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GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET
- NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- PIPE SIZE TAG (DIAMETER)
- EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

FIRE PROTECTION SYMBOLS

- FIRE PROTECTION DRY
- FIRE PROTECTION OTHER
- FIRE PROTECTION PRE-ACTION
- FIRE PROTECTION WET
- COMBINATION FIRE & DOMESTIC
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- RECESSED SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- DRY SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- EXTENDED COVERAGE SIWALL SPRINKLER HEAD
- OBSTRUCTION FROM DUCTWORK 48" AND GREATER
- CHECK VALVE
- ALARM CHECK VALVE
- TAMPER DETECTION VALVE
- DRY PIPE VALVE
- INDICATING BUTTERFLY VALVE
- POST INDICATOR VALVE
- VALVE NONRISING STEM
- OS&Y VALVE
- PREACTION VALVE
- DELUGE VALVE
- THRUST BLOCK
- PIPE ANCHOR
- FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION
- SIAMESE FIRE DEPARTMENT CONNECTION
- SINGLE FIRE DEPARTMENT CONNECTION
- RISER
- DOUBLE CHECK (OS&Y)
- DOUBLE CHECK (BUTTERFLY W/ TAMPER)
- REDUCED PRESSURE ZONE
- EQUIPMENT TAG

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	MAX	MAXIMUM
AD	AREA DRAIN	MD	MOTORIZED DAMPER
ADD	ADDENDUM	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
ALT	ALTERNATE	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
ARCH	ARCHITECT/ARCHITECTURAL	MTR	MOTOR
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BLW	BELOW	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO	NUMBER
CB	CATCH BASIN	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	PD	PRESSURE DROP
CW	COLD WATER	PIV	POST INDICATOR VALVE
D	DEGREE	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	REC	RECESSED
EIA	EXHAUST AIR	RED	REDUCER
F	DEGREES FAHRENHEIT	RM	ROOM
FD	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FOOT
FL	FLOOR	SAN	SANITARY
FO	FUEL OIL	SF	SQUARE FOOT
FOV	FUEL OIL VENT	SD	SMOKE DAMPER
FOR	FUEL OIL RETURN	SM	SURFACE MOUNT
FOS	FUEL OIL SUPPLY	SP	STANDPIPE
FPM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FOOT/FEET	T	THERMOSTAT
GAL	GALLON	TD	TEMPERATURE DROP
GF	GAS-FIRED	TEMP	TEMPERATURE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
HB	HOSE BIB	V	VENT
HP	HORSE POWER	VENT	VENTILATION
HTR	HEATER	W	WASTE
HYD	HYDRANT	WH	WALL HYDRANT
ID	INDIRECT		
IN	INCH		
INV	INVERT		
LB	POUND		

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

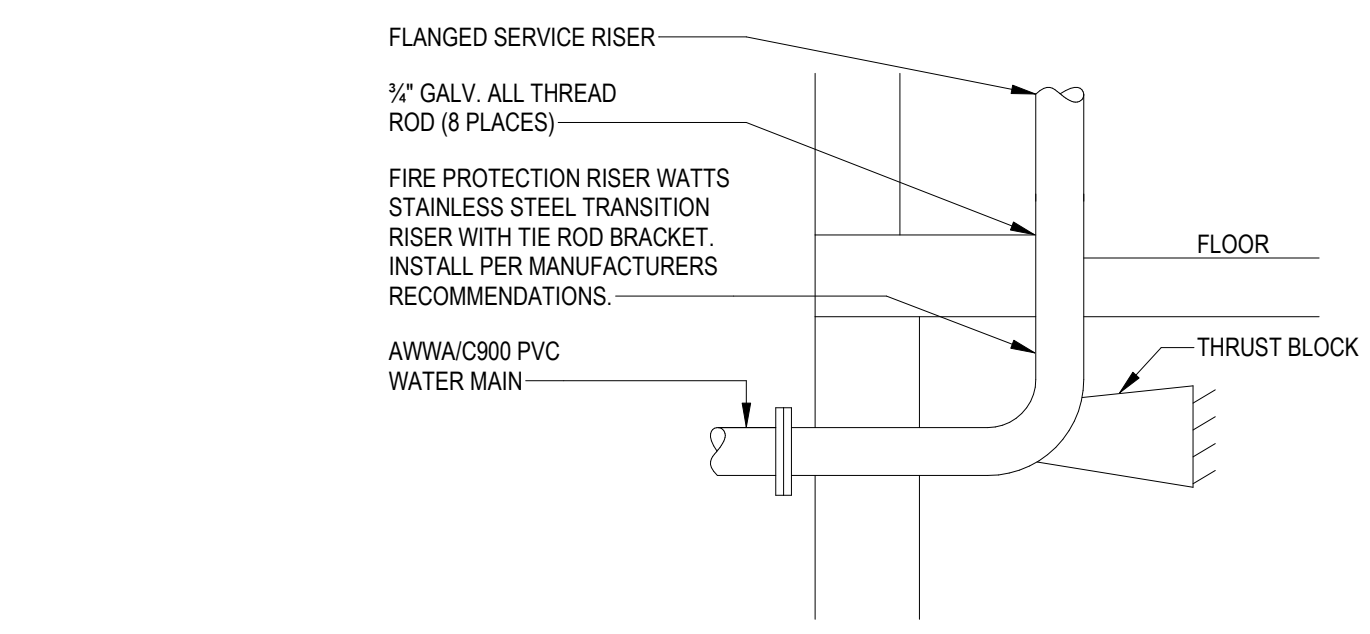
FIRE PROTECTION GENERAL NOTES

- SPRINKLER DRAWINGS SHALL BE REVIEWED AND PREPARED BY A QUALIFIED FIRE PROTECTION ENGINEER. FOR THE PURPOSES OF MEETING THIS REQUIREMENT, A QUALIFIED FIRE PROTECTION ENGINEER IS DEFINED AS AN INDIVIDUAL MEETING ONE OF THE FOLLOWING - A REGISTERED PROFESSIONAL ENGINEER (P.E.) WHO HAS PASSED THE FIRE PROTECTION WRITTEN EXAMINATION ADMINISTERED BY THE NATIONAL COUNCIL OF ENGINEERING AND SURVEYS (NCEES).
- THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- THE SPRINKLER SYSTEM HYDRAULIC CALCULATIONS SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
- DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
- AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
- AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.
- SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
- THE CONTRACTOR SHALL PERFORM A FIRE FLOW TEST IN ACCORDANCE WITH NFPA 291 TO VERIFY SITE FLOW TEST DATA. A FIRE PROTECTION ENGINEER OR AN ENGINEER EXPERIENCED IN WATER FLOW TESTING SHALL PERFORM OR WITNESS THE REQUIRED FLOW TESTING AND SIGN THE REPORT PRIOR TO THE FIRST SPRINKLER SYSTEM SUBMITTAL.
- ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
- THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.
- A WET-PIPE, HYDRAULICALLY DESIGNED SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED TO PROVIDE COVERAGE SHOWN AT THE DENSITIES INDICATED FOR EACH AREA IN ACCORDANCE WITH NFPA 13. SYSTEM DEMAND SHALL BE BASED ON THE MOST HYDRAULICALLY DEMANDING AREA. A HOSE ALLOWANCE AS INDICATED SHALL BE ADDED TO SYSTEM DEMAND TO INSURE ADEQUATE FIRE FIGHTING FLOW.
- A DRY PIPE HYDRAULICALLY DESIGNED SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED TO PROVIDE COVERAGE SHOWN AT THE DENSITIES INDICATED FOR EACH AREA IN ACCORDANCE WITH NFPA 13. SYSTEM DEMAND SHALL BE BASED ON 30% INCREASE OF DESIGN AREA. DRY PIPE SYSTEM SHALL PROTECT AREAS SUBJECT TO FREEZING.
- CONTRACTOR SHALL COORDINATE LOCATION OF SPRINKLER HEADS, FLOW SWITCHES, DRAIN VALVES, VALVE CABINETS AND ALL PIPING WITH ALL OTHER TRADES IN BUILDING CONTRACT. THE SPRINKLER RISER PIPING LOCATED INSIDE THE MECHANICAL ROOM SHALL BE LOCATED TO PERMIT MAXIMUM ACCESS TO ALL EQUIPMENT LOCATED THEREIN. ANY CONFLICTS THAT OCCURE WITH WORK BY OTHER TRADES AS RESULT OF LACK OF COORDINATION BY CONTRACTOR SHALL BE ADJUSTED AS REQUIRED AT THE EXPENSE OF CONTRACTOR.
- ALL SPRINKLER PIPING SHALL BE PITCHED FOR DRAINAGE OF SYSTEM. PROVIDE AND INSTALL DRAIN VALVES AND WASTE LINES FOR ALL SPRINKLERS AS REQUIRED BY CODE. END WASTE LINE OVER NEAREST FLOOR DRAIN.
- PIPE SIZES SHOWN ON THE DRAWINGS ARE AN ESTIMATE FOR BIDDING PURPOSES ONLY. SIZING SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS.
- A FLOW SWITCH AND SUPERVISED ZONE OS&Y VALVE SHALL BE PROVIDED FOR EACH SPRINKLER ZONE. ONE INSPECTOR TEST DRAIN CONNECTION SHALL BE PROVIDED PER ZONE TO TEST THE OPERATION OF THE FLOW SWITCH AND ALARM SYSTEM.
- ALL FITTINGS IN A SYSTEM SHALL BE FROM ONE MANUFACTURER. ALL PIPE AND FITTINGS ASSOCIATED WITH DRY PIPE SYSTEM SHALL BE GALVANIZED.
- DRY SYSTEMS SHALL USE RISER MOUNTED OR FLOOR MOUNTED AIR COMPRESSORS. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED AIR COMPRESSOR.
- SPRINKLER LINES IN EXPOSED AREAS SHALL BE KEPT TO A MINIMUM AND NEATLY ARRANGED WITH CARE AND CRAFTSMANSHIP FOR INTEGRATION WITH THE ARCHITECTURE OF THE BUILDING FOR NO EXPOSED MAINS. PRELIMINARY DIAGRAMS / LAYOUT OF SPRINKLER ROUTING SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER FOR REVIEW PRIOR TO ANY SYSTEM ENGINEERING OR INSTALLATION.
- SPRINKLER LAYOUT MUST BE REVIEWED BY ARCHITECT / ENGINEER PRIOR TO ANY SYSTEM ENGINEERING OR INSTALLATION.
- FEMA SHELTER PENETRATION OF SPRINKLER LINES MUST BE PROTECTED WITH PIPE SHROUD WHERE PIPE SIZES ARE LARGER THAN 2.0625" DIAMETER.
- PROVIDE COMPLETE HYDRAULIC CALCULATIONS FOR ENTIRE SYSTEM.
- PROVIDE OPERATION AND MAINTENANCE MANUALS CONTAINING ALL NECESSARY INSTRUCTIONS AND EMERGENCY PROCEDURES AND TECHNICAL DATA OF EACH ESSENTIAL COMPONENT OF THE SYSTEM. ESSENTIAL COMPONENTS INCLUDE BUT ARE NOT LIMITED TO SPRINKLERS, DETECTORS, ELECTRICAL COMPONENTS, VALVES, COMPRESSORS, WIRING DIAGRAMS, ETC.
- FIRE PROTECTION CONTRACTOR SHALL PERFORM ALL SYSTEM TESTS INCLUDING BUT NOT LIMITED TO DRAIN TEST, AIR SUPPLY TEST, INSPECTOR'S TEST, PRESSURE TEST, AND VERIFICATION OF THE FIRE ALARM SYSTEM. PROVIDE ALL INSPECTION REPORTS AND TEST CERTIFICATES INCLUDED IN O&M MANUAL.
- PROVIDE PIPE SLEEVES THROUGH ALL FIRE RATED WALLS FOR INSTALLATION OF FIRE SEALANT.
- COORDINATE HEAD LOCATIONS WITH ALL OVERHEAD OPERATING DOORS. COVERAGE SHALL BE MAINTAINED PER NFPA 13 WHEN THE DOORS ARE OPEN OR CLOSED.
- COORDINATE LOCATION OF HEADS IN ELEVATOR HOISTWAY AND MACHINE ROOM WITH EQUIPMENT.
- SPRINKLERS SHALL BE INSTALLED UNDER FIXED OBSTRUCTIONS OVER 4 FEET WIDE SUCH AS DUCTS.
- PROVIDE AND INSTALL CABINETS ON WALL IN THE MECHANICAL ROOM OR SPRINKLER ROOM WITH THE SPARE HEADS AND WRENCHES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ARM OVERS OR RETURN BENDS SHALL BE USED TO LOCATE HEADS IN THE CENTER OF TILES. ALL CONNECTIONS SHALL BE MADE OFF TOP OF THE SPRINKLER PIPE.
- DO NOT ROUTE PIPING BELOW ROOF OR MEZZANINE ACCESS AND DO NOT ROUTE PIPING ABOVE ELECTRICAL GEAR.
- COORDINATE CONCEALED HEAD COLOR WITH ARCHITECT AND CEILINGS.
- PROVIDE AND INSTALL SPRINKLER GUARDS ON ALL SPRINKLER HEADS SUBJECT TO MECHANICAL INJURY LOCATED IN AREAS WITHOUT CEILING.

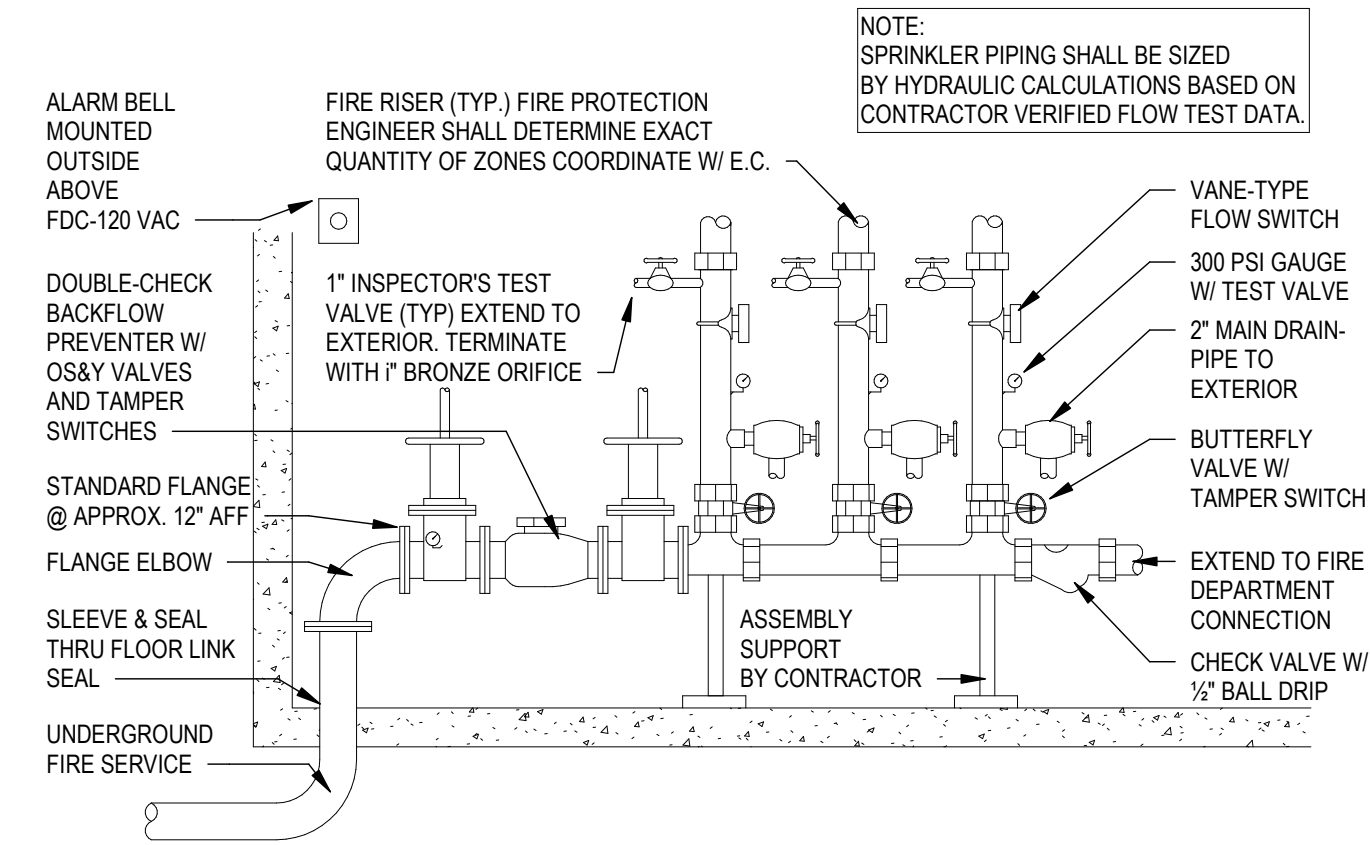
FIRE PROTECTION SHEET INDEX

SHEET	DESCRIPTION
F1.0	FIRE PROTECTION COVER SHEET
F1.1	FIRE PROTECTION PLAN

RECORD DRAWINGS
Client: City of Wichita
Contractor: McCullough Construction
Superintendent: Rob Grey
Foreman: Jose Romero
Inspector: E.L. Strecker
Inspection Firm: Garver
PDF BY: ELS 02-07-24



1 FIRE LINE ENTRANCE
NOT TO SCALE



2 FIRE SPRINKLER SYSTEM RISER
NOT TO SCALE

Revit File: BIM 360/22083.00 - ICT Jabara Airport/22083.00 - ICT Jabara Airport - R21.rvt
Plot Date: 3/16/2023 4:54:06 PM



800 E 1st St • Suite 401
Wichita, Kansas 67202
basisengineers.com
Telephone 316.941.5533

JOB NO.: 22055
DATE: 03.14.23
DESIGNED BY: MW
DRAWN BY: RF
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DRAWING NUMBER
F1.0
SHEET NUMBER
5



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WDM Architects P.A.
105 North Washington
Wichita, KS 67202-2815
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WDM Project # - 22055

REV	DATE	DESCRIPTION	BY



COL JAMES JABARA
AIRPORT
WICHITA, KS
CONSTRUCT SNOW
REMOVAL EQUIPMENT
BUILDING

FIRE PROTECTION PLAN

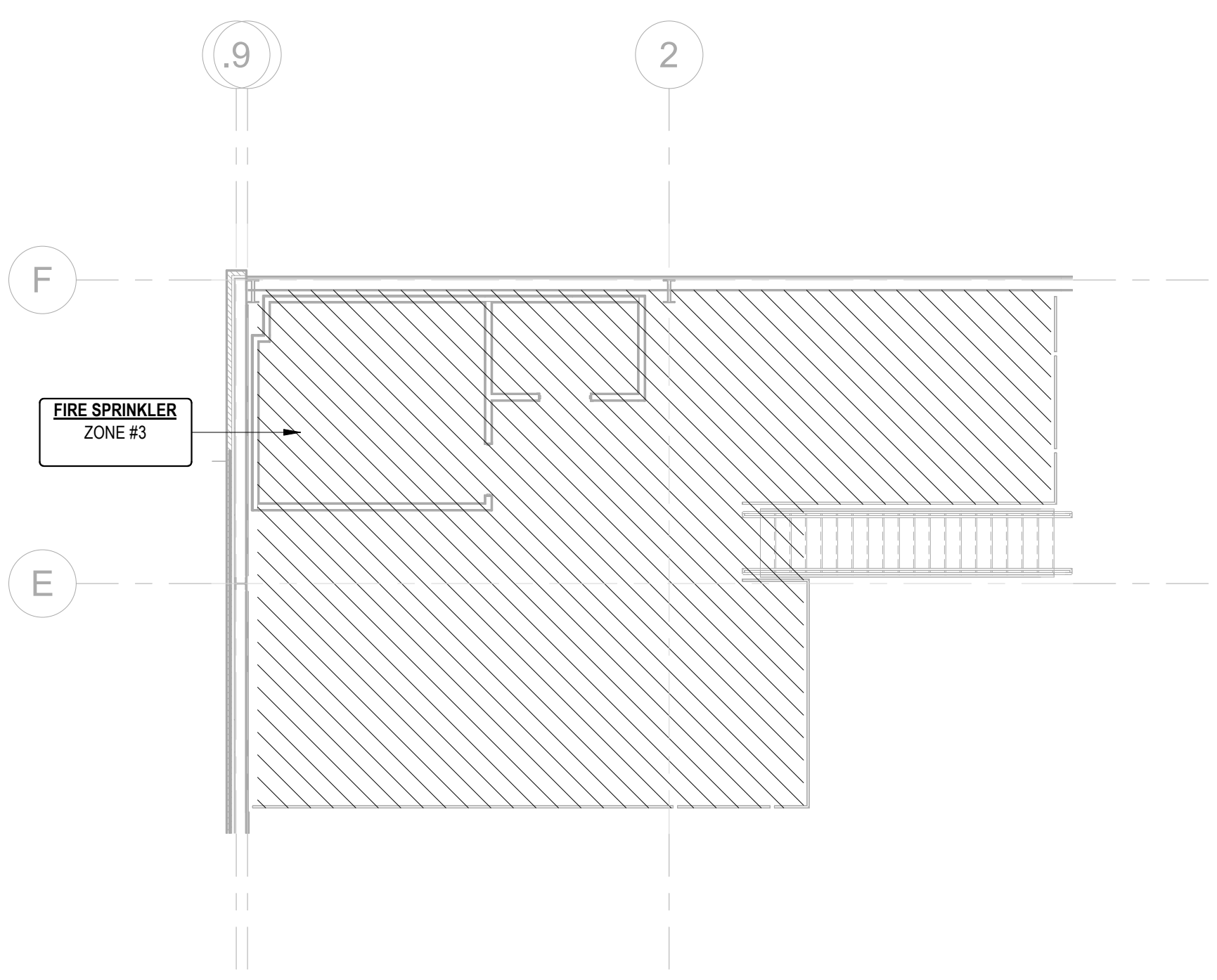
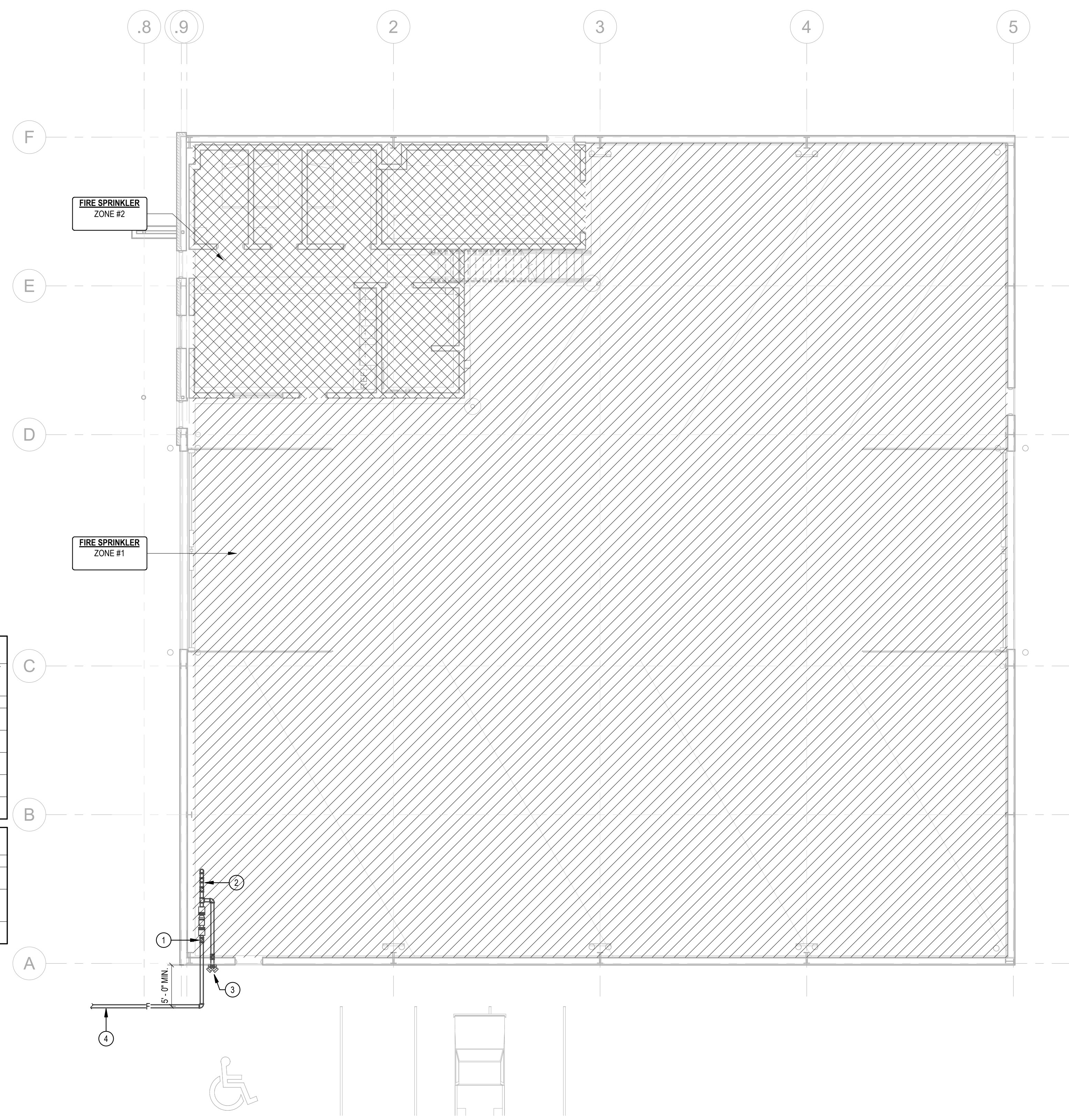
JOB NO.: 22055
DATE: 03.14.23
DESIGNED BY: MW
DRAWN BY: RF

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER	F1.1
SHEET NUMBER	6

RECORD DRAWINGS
Client: City of Wichita
Contractor: McCullough Construction
Superintendent: Rob Grey
Foreman: Jose Romero
Inspector: E.L. Strecker
Inspection Firm: Garver
PDF BY: ELS 02-07-24



2 FIRE PROTECTION PLAN - MEZZANINE
1/8" = 1'-0"

AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA

SYMBOL	OCCUPANCY HAZARD CLASSIFICATION	DESIGN DENSITY (GPM/SF)	DESIGN AREA
R	RESIDENTIAL (DWELLING) OCCUPANCY	0.05	400 SF
LH	LIGHT HAZARD OCCUPANCY	0.10	1500 SF
OH1	ORDINARY HAZARD, GROUP 1 OCCUPANCY	0.15	1500 SF
OH2	ORDINARY HAZARD, GROUP 2 OCCUPANCY	0.20	1500 SF
EH1	EXTRA HAZARD, GROUP 1 OCCUPANCY	0.30	2500 SF
EH2	EXTRA HAZARD, GROUP 2 OCCUPANCY	0.40	2500 SF
S	SPECIAL HAZARD OCCUPANCY		

OCCUPANCY HAZARD CLASSIFICATION SCHEDULE

NO.	LOCATION	AREA	OCCUPANCY HAZARD CLASSIFICATION SYMBOL
Finish Floor			
100	EQUIPMENT BAY	8562 SF	OH2
101	OFFICE	378 SF	LH
103	BR	73 SF	LH
104	BR	67 SF	LH
105	ADA BR	95 SF	LH
106	UNISEX RESTROOM	117 SF	LH
107	ELECTRICAL VAULT	295 SF	LH
Finish Floor: 7			
9586 SF			
Mezzanine			
200	MEZZANINE	1020 SF	LH
201	COMM ROOM	159 SF	LH
202	MECHANICAL CLOSET	47 SF	LH
Mezzanine: 3			
1226 SF			
Grand total: 10			
10812 SF			

FIRE PROTECTION SHEET NOTES

- A FIRE PROTECTION PIPING PLAN IS FOR REFERENCE ONLY. DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION. REFER TO SPRINKLER DRAWINGS DESIGNED AND SEALED BY FIRE PROTECTION ENGINEER.
- B ALL FIRE PROTECTION PIPING SHALL BE COORDINATED WITH OTHER TRADES.
- C PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE PROTECTED AND FIRE STOPPED AS PER SPECIFICATIONS.
- D DO NOT ROUTE PIPING WITHIN NEC CLEARANCE REQUIREMENTS ABOVE ELECTRICAL GEAR / PANELS OR BELOW ROOF HATCH / MEZZANINE ACCESS.
- E REFER TO ARCHITECT'S REFLECTIVE CEILING PLAN TO PROVIDE TYPE OF SPRINKLER HEAD.
- F REFER TO ARCHITECT'S SECTIONS AND ELEVATIONS TO COORDINATE PIPING OFFSETS WITH OTHER TRADES.
- G FIELD MEASURE FINAL PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED.

KEYNOTES

- 1 FIRE SPRINKLER SERVICE WITH U.L. AND F.M. APPROVED BACKFLOW PREVENTER.
- 2 FIRE SPRINKLER RISERS. COORDINATE EXACT NUMBER OF ZONES AND FLOW SWITCHES WITH E.C. SYSTEM DESIGN PER NFPA.
- 3 PROPOSED FIRE DEPARTMENT CONNECTION. COORDINATE LOCATION WITH AUTHORITY HAVING JURISDICTION. REFER TO CIVIL AND FIRE PROTECTION DRAWINGS.
- 4 EXTEND TO WATER MAIN. COORDINATE ROUTING WITH ALL OTHER TRADES AND FOOTPRINT OF FUTURE EXPANSION.

1 FIRE PROTECTION PLAN
1/8" = 1'-0"

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PLOT Date: 3/16/2023 4:54:11 PM

