

**GENERAL NOTES:**

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- SUBCONTRACTOR 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  
  
A & 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  
WESTAR ENERGY 1-800-544-4857
- UTILITY SERVICE LINES, POLES, ETC. ARE TO 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 SUBCONTRACTOR 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 SITE TO BE PROVIDED BY OWNER'S REPRESENTATIVE. 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 UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITE 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 SUBCONTRACTOR 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 SUBCONTRACTOR 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.
- THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE SUBCONTRACTOR 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 SUBCONTRACTOR. IT SHALL BE THE SUBCONTRACTOR'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 SUBCONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FINAL GRADES BY THE SUBCONTRACTOR.
- THE SUBCONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND TOM MASON 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 SUBCONTRACTOR.
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, BRIAN COON AT TRAFFIC@WICHITA.GOV BEFORE CONSTRUCTION CAN BEGIN. THE SUBCONTRACTOR 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 SUBCONTRACTORS 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 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 CONNECTIONS CAN BE MADE ON THIS PROJECT. QUOTES CAN BE OBTAINED ON FEES BY CALLING 316-268-4555.
- 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 BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE SUBCONTRACTOR IS REOPENED. THE SUBCONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- THE SUBCONTRACTOR 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 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 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.
- THE SUBCONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAIN WITH CITY SUCH THAT THERE IS A MINIMUM DISRUPTION OF SERVICE. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE SUBCONTRACTOR 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 MANUFACTURERS RECOMMENDED MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE SUBCONTRACTOR SHALL UTILIZE FITTINGS.
- ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
- VALVES 12 INCHES AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION, 48 HOURS OF ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-219-8921.
- ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE SUBCONTRACTOR WILL REIMBURSE THE CITY FOR TAPPING FEES PRIOR TO TAP BEING MADE. UNLESS NOTED ON PLANS.
- THE SUBCONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND ENGINEER AT THE SUBCONTRACTORS EXPENSE.
- SUBCONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- WICHITA FIRE DEPARTMENT INSPECTIONS MAY BE SCHEDULED BY CALLING 316-268-4441.

# WATER DISTRIBUTION SYSTEM

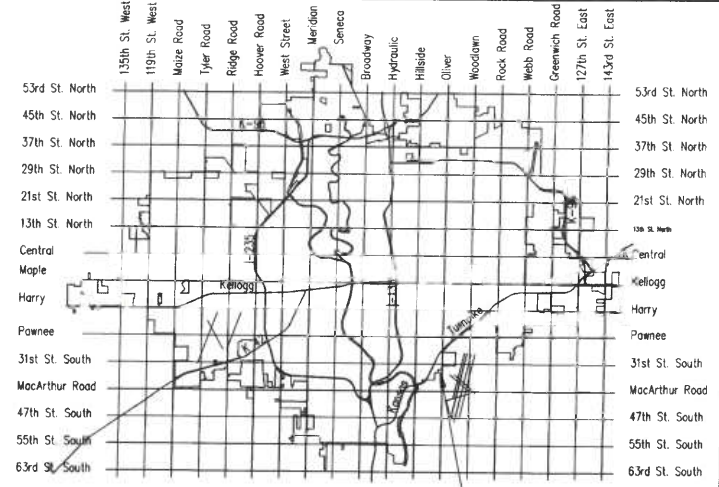
to serve

## AUTOMATED WAREHOUSE

3801 S OLIVER STREET  
CITY OF WICHITA, KANSAS

GARY JANZEN, P.E. City Engineer  
Project Number  
2138 PPW (183021)

Sheet Index	
Sheet Number	Sheet Title
G-001	WATER DISTRIBUTION COVER SHEET
CU103	OVERALL WATER PLAN
CU104	DOMESTIC & FIRE WATER PLAN 1
CU105	DOMESTIC & FIRE WATER PLAN 2
CU205	DOMESTIC WATER PROFILE
CU206	FIRE WATER PROFILE 1
CU207	FIRE WATER PROFILE 2
CU501	UTILITY DETAILS 1
CU504	UTILITY DETAILS 4



From existing fire hyd. on Turnpike Drive -21' East & 17' North to new valve- 21' East & 17' North & 2' West to main & tapping sleeve main is 9' deep

Clow (storz) fire hyd.  
Clow valve  
Sanderson pipe c-900  
Sigma fittings  
Pro-trace wire

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

Water Mains (Engineering) *Johanna Kallman 11-1-18*  
Water Mains (Water) *By July 11-1-18*  
Fire Prot. Line *Johanna 11-1-18*

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 the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

**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 materials 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 the City of Wichita Fire Department and by a licensed Consulting Engineering Firm under contract with the Owner/Developer.  
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**

- BM #201 - SQUARE CUT ON THE WEST END OF THE CURB RETURN ON THE NORTHWEST CORNER OF S. OLIVER ST. AND E. COLFAX ST. 135' NORTH-NORTHWEST TO CONTROL POINT #101. 113' NORTHEAST TO THE BASE OF THE 'STOP' SIGN POST. 115' NORTH-NORTHWEST TO THE BASE OF THE 'NO OUTLET' SIGN POST.  
ELEV.=1356.23 (NAVD88)
- BM #202 - SQUARE CUT ON THE WEST END OF THE NORTH CURB LINE IN THE NORTHWEST CORNER OF THE PARKING LOT ON THE NORTH SIDE OF 1-355C BUILDING. 191' NORTHEAST TO CONTROL POINT #102. 146' EAST-NORTHEAST TO POST INDICATOR VALVE #1082.  
ELEV.=1360.63 (NAVD88)
- BM #203 - SQUARE CUT ON TOP OF THE EAST SIDE OF THE CONCRETE DRAINAGE STRUCTURE ON EAST SIDE OF TURNPIKE DR. 149' NORTH-NORTHEAST TO CONTROL POINT #103. 142' SOUTH TO THE NORTH EDGE OF THE DRIVE TO "Y" PARKING LOT (3300 S. TURNPIKE DR.) 140' SOUTHWEST TO BASE OF A POWER POLE.  
ELEV.=1348.61 (NAVD88)

**AS BUILTS**

Contractor: Pearson Construction  
1/09/2019

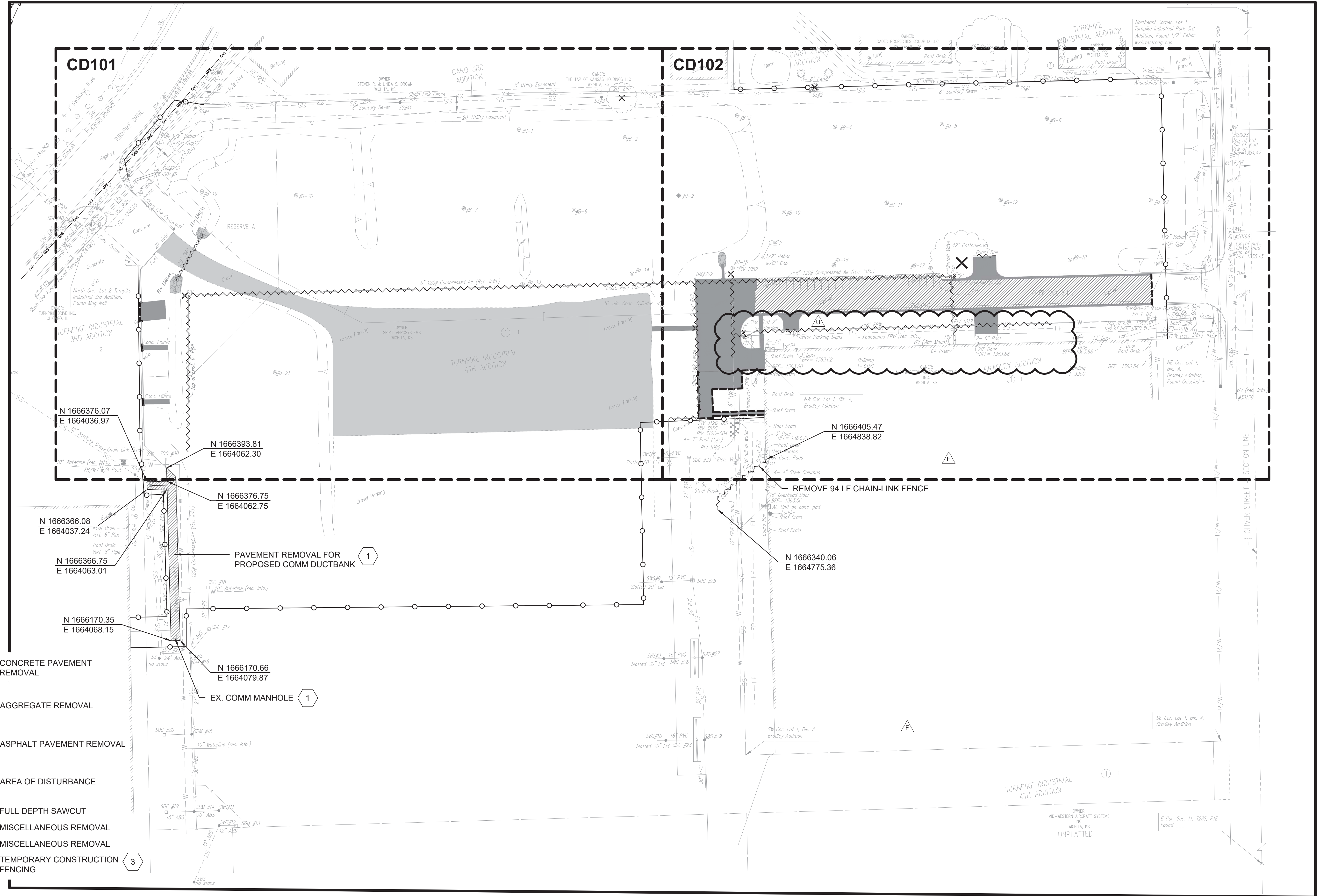
Project Inspector: Larry Gann  
**KEMILLER ENGINEERING PA**  
117 E. Lewis, Wichita, KS 67202 (316)264-0242



**BURNS & MCDONNELL**  
9400 WARD PARKWAY  
KANSAS CITY, MO 64114  
816-333-9400

NOVEMBER 2018

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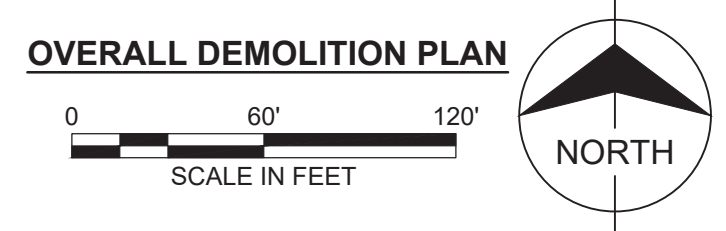


**LEGEND**

- CONCRETE PAVEMENT REMOVAL
- AGGREGATE REMOVAL
- ASPHALT PAVEMENT REMOVAL
- AREA OF DISTURBANCE
- FULL DEPTH SAWCUT
- MISCELLANEOUS REMOVAL
- MISCELLANEOUS REMOVAL
- TEMPORARY CONSTRUCTION FENCING

**KEYED NOTES:**

- 1** SUBCONTRACTOR SHALL FIELD-CONFIRM EXISTING COMM MANHOLE LOCATION AND DUCTBANK ROUTING PRIOR TO CONSTRUCTION. REFER TO THE CIVIL UTILITY BASE MAP REFERENCE DRAWING FOR ADDITIONAL INFORMATION.
- 2**
- 3** TEMPORARY CONSTRUCTION FENCING SHOWN FOR REFERENCE ONLY. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING FENCE THROUGHOUT THE DURATION OF THE PROJECT AS CONSTRUCTION PROGRESSES, AS REQUIRED.



13SEPT2018 - PKG 1A - SITE WORK - REV U  
 PE CONTACT: WAYNE HERBERT @ 316-523-2359

APPROVED	BY	DESCRIPTION	DATE
CK	CK	PKG 1A SITE WORK - FC	03/09/2018
NT	CK	PKG 1A SITE WORK - FC-AD02	03/29/2018
NT	CK	PKG 1A SITE WORK - FC-AD03	04/12/2018
NT	CK	PKG 1A SITE WORK - REV U	09/13/2018

FIRE PROTECTION REVIEW	APPROVED	DATE
ACCEPTABILITY THIS DESIGN AND/OR SPECIFICATIONS APPROVED	APPROVED	DATE
NAME	DEPT.	DATE

Project No.	6936
Sheet Name	DEMOLITION PLAN
Sheet	CD100 of XX
Drawing No.	108M-XXX-XX

Facilities Engineering	WICHITA, KS
<b>AUTOMATED WAREHOUSE</b>	WICHITA, KS
BLDG-1-338G	WICHITA, KS
Designed by: C. RINGSLAND	02/21/18

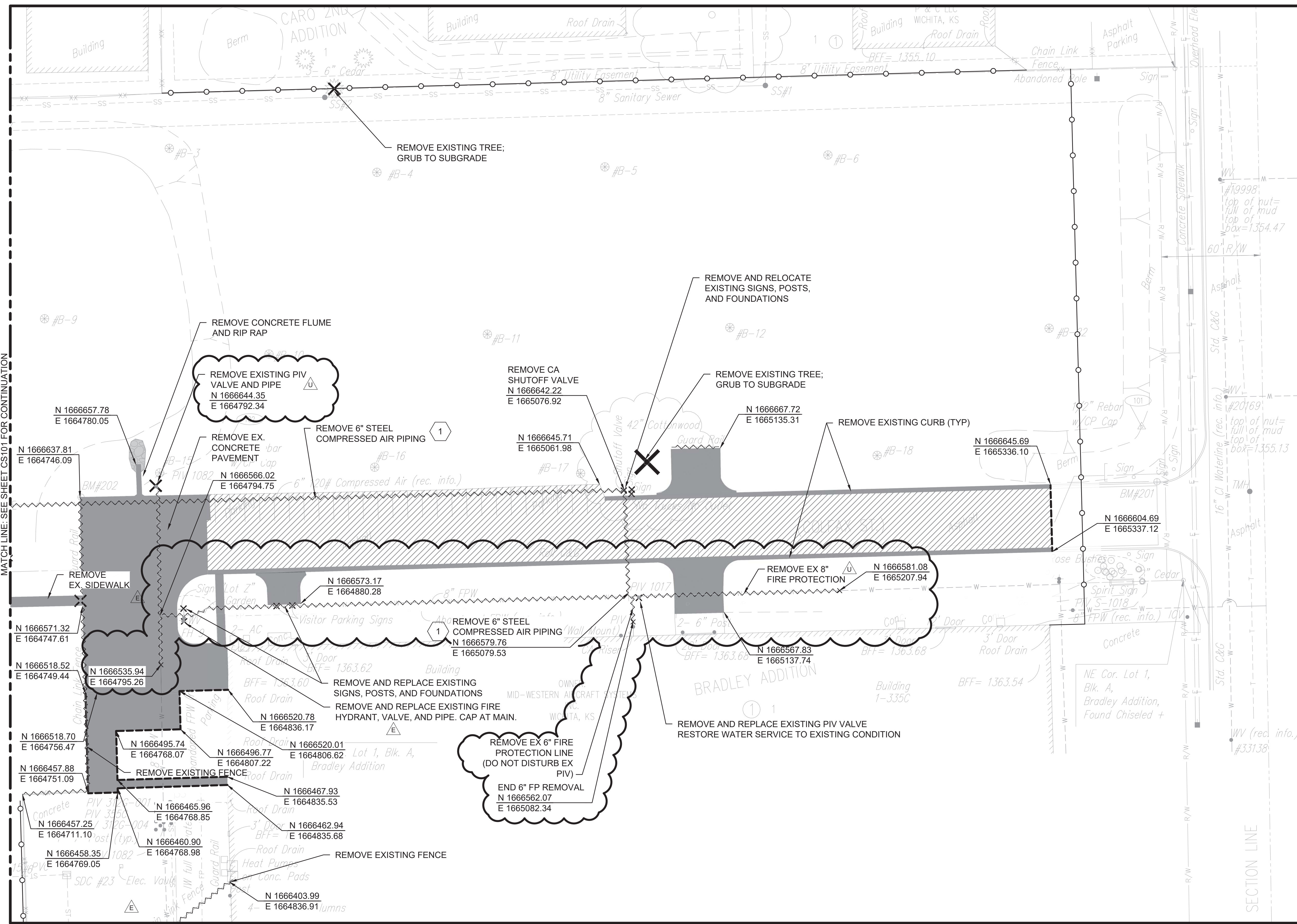
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Sheet Name	DEMOLITION PLAN
Sheet	CD100 of XX
Drawing No.	108M-XXX-XX



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**LEGEND**

- FULL DEPTH CONCRETE PAVEMENT REMOVAL
- FULL DEPTH AGGREGATE REMOVAL
- FULL DEPTH ASPHALT PAVEMENT REMOVAL
- FULL DEPTH SAWCUT
- MISCELLANEOUS REMOVAL
- X MISCELLANEOUS REMOVAL
- TEMPORARY CONSTRUCTION FENCING

**KEYED NOTE:**

1 SUBCONTRACTOR SHALL COORDINATE WITH CONTRACTOR FOR PLANNED COMPRESSED AIR SHUT-DOWN. SUBCONTRACTOR SHALL HAVE RELOCATED COMPRESSED AIR PIPING INSTALLED AND READY FOR TIE-IN PRIOR TO THE SHUT-DOWN TO MINIMIZE IMPACTS TO EXISTING OPERATIONS.

APPROVED	BY	DATE	DESCRIPTION
NT	CAK	03/09/2018	PG1 'A' SITE WORK - FC
NT	CAK	03/29/2018	PG1 'A' SITE WORK - FC - AD02
NT	CAK	09/13/2018	PG1 'A' SITE WORK - REV U

FIRE PROTECTION REVIEW	APPROVED	NOT REQUIRED
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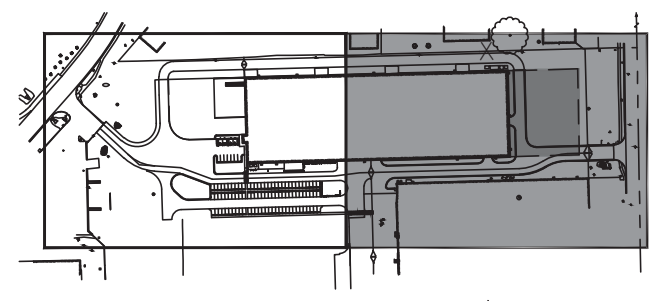
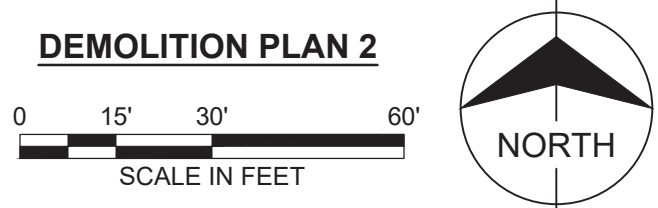


WICHITA, KS 0221718

Facilities Engineering  
**AUTOMATED WAREHOUSE**  
 BLDG-1-338G  
 Drawn by: J. JERKINS 0221718

13SEPT2018 - PKG 1A - SITE WORK - REV U  
 PE CONTACT: WAYNE HERBERT @ 316-523-2359

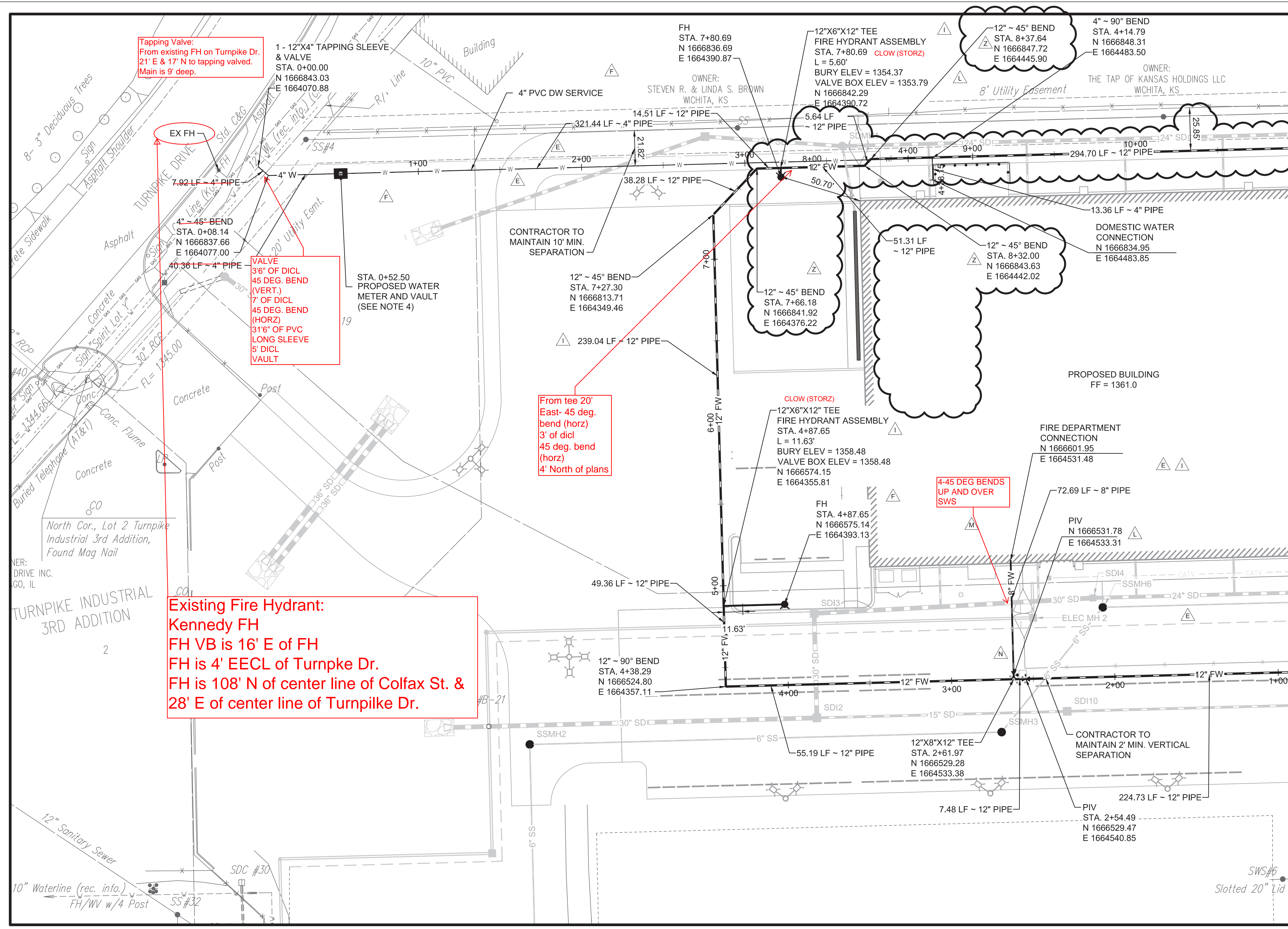
Project No: 6936  
 Sheet Name: DEMO PLAN 2  
 Sheet: CD102 of XX  
 Drawing No: 108M-XXX-XX



**KEY PLAN**  
 NOT TO SCALE



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**LEGEND**

SS	PROPOSED SANITARY LINE
SD	PROPOSED STORM LINE
12" FW	PROPOSED 12" FIRE WATER LINE
W	PROPOSED WATER LINE
G	PROPOSED GAS LINE
CA	PROPOSED COMPRESSED AIR LINE
—	PROPOSED ELECTRICAL CONDUIT
FH	FIRE HYDRANT
PVI	POST INDICATOR VALVE
SD	STORM DRAIN
SDAI	STORM DRAIN AREA INLET

- NOTES:**
- CIVIL SUBCONTRACTOR SCOPE SHALL EXTEND TO 12 FEET OUTSIDE THE BUILDING FOR ALL UTILITIES UNLESS NOTED OTHERWISE. CIVIL SUBCONTRACTOR SHALL PROVIDE TEMPORARY STUB-UP UNLESS OTHERWISE COORDINATED WITH PLUMBING SUBCONTRACTOR.
  - SEE MECHANICAL, PLUMBING, AND ELECTRICAL SHEETS FOR CONTINUATION OF ALL UTILITIES AT THE 12 FOOT LINE.
  - CIVIL CONTRACTOR FIREWATER SCOPE SHALL EXTEND TO A POINT 36" INSIDE THE BUILDING. SUBCONTRACTOR SHALL CHANGE PIPE MATERIALS FROM PVC TO WRAPPED DUCTILE IRON 5' OUTSIDE THE BUILDING. SUBCONTRACTOR SHALL PROVIDE A FLANGED CONNECTION 12" ABOVE FINISHED FLOOR. COORDINATE PENETRATION AND STUB-UP LOCATION WITH THE STRUCTURAL AND FIRE PROTECTION DRAWINGS. REFER TO FIRE PROTECTION REQUIREMENTS.
  - SEE '3" DOMESTIC SERVICE' DETAIL AND NOTES ON DRAWING CU504 FOR THE CIVIL SUBCONTRACTOR SCOPE BREAKDOWN AT THE WATER METER AND VAULT.
  - REFER TO DETAIL 4 ON SHEET CU501 FOR FIRE HYDRANT DETAIL AND LOCATION BURY LINE ELEVATION.

APPROVED	BY	DATE	DESCRIPTION

DATE	DESCRIPTION

ACCEPTABILITY	DATE

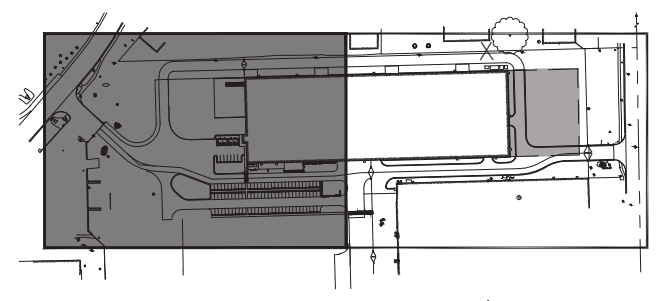
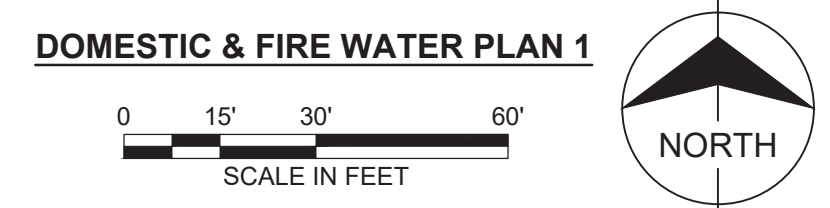
**AS BUILTS**

**KEMILLER ENGINEERING PA**  
117 E. Lewis, Wichita, KS 67202 (316)264-0242

**16NOV2018 - PKG 1A - SITE WORK - REV Z**  
PE CONTACT: WAYNE HERBERT @ 316-523-2359

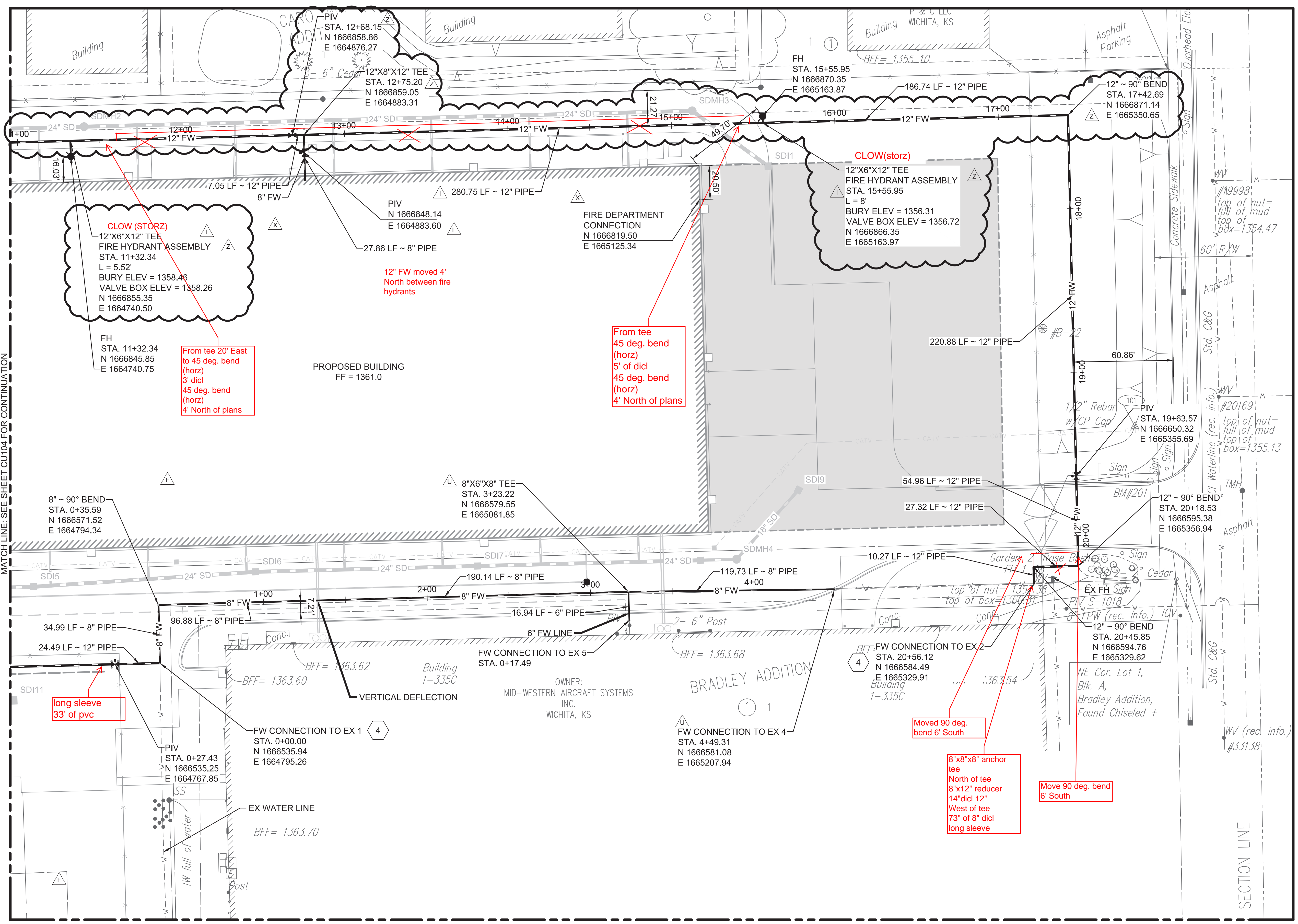
**AUTOMATED WAREHOUSE**  
WICHITA, KS 03/16/2018

Project No.	6936
Sheet Name:	D & F WATER PLAN 1
Sheet:	CU104 of XX
Drawing No.	108M-138-XXX



**KEY PLAN**  
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**LEGEND**

- SS PROPOSED SANITARY LINE
- SD PROPOSED STORM LINE
- 12" FW PROPOSED 12" FIRE LINE
- W PROPOSED WATER LINE
- G PROPOSED GAS LINE
- CA PROPOSED COMPRESSED AIR LINE
- PROPOSED ELECTRICAL CONDUIT
- FH FIRE HYDRANT
- PVI POST INDICATOR VALVE
- SD STORM DRAIN
- SDAI STORM DRAIN AREA INLET

- NOTES:**
- CIVIL SUBCONTRACTOR SCOPE SHALL EXTEND TO 12 FEET OUTSIDE THE BUILDING FOR ALL UTILITIES UNLESS NOTED OTHERWISE. CIVIL SUBCONTRACTOR SHALL PROVIDE TEMPORARY STUB-UP UNLESS OTHERWISE COORDINATED WITH PLUMBING SUBCONTRACTOR.
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  - INSTALL NEW 12"x12"x12" TEE TO CONNECT TO EXISTING FIRE MAIN. SUBCONTRACTOR SHALL COORDINATE TEMPORARY FIRE MAIN SHUT DOWN WITH CONTRACTOR.
  - REFER TO DETAIL 4 ON SHEET CU501 FOR FIRE HYDRANT DETAIL AND LOCATION BURY LINE ELEVATION.

**AS BUILTS**

117 E. Lewis,  
Wichita, KS 67202 (316)264-0242

APPROVED	BY	DATE	DESCRIPTION
NT	CAK	06/01/2018	FIG 1A SITE WORK - REV L
NT	CAK	06/22/2018	FIG 1A SITE WORK - REV N
NT	CAK	08/13/2018	FIG 1A SITE WORK - REV U
NT	CAK	11/07/2018	FIG 1A SITE WORK - REV X
NT	CAK	11/16/2018	FIG 1A SITE WORK - REV Z

FIRE PROTECTION REVIEW	DATE
APPROVED	
NOT REQUIRED	

ACCEPTABILITY THIS DESIGN AND/OR SPECIFICATION IS APPROVED	NAME	DEPT.	DATE

16NOV2018 - PKG 1A - SITE WORK - REV Z  
PE CONTACT: WAYNE HERBERT @ 316-523-2359

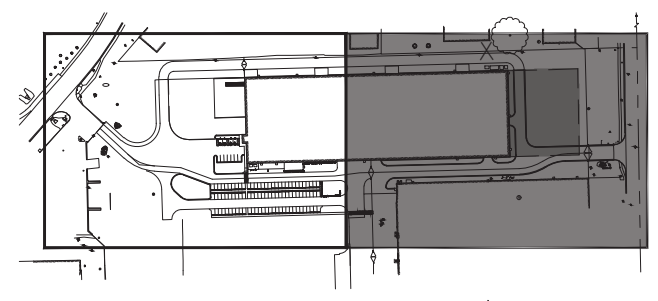
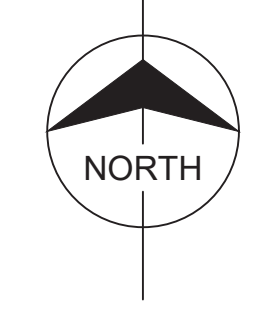
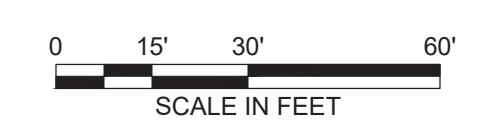
Facilities Engineering  
**AUTOMATED WAREHOUSE**  
WICHITA, KS 03/16/2018

BLDG-1-338G  
Designed by: C. RINGSLAND

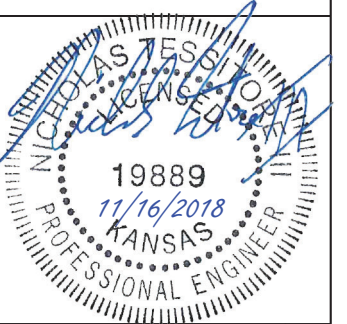
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Sheet: CU105 of XX  
Drawing No: 108M-XXX-XXX

MATCH LINE: SEE SHEET CU103 FOR CONTINUATION

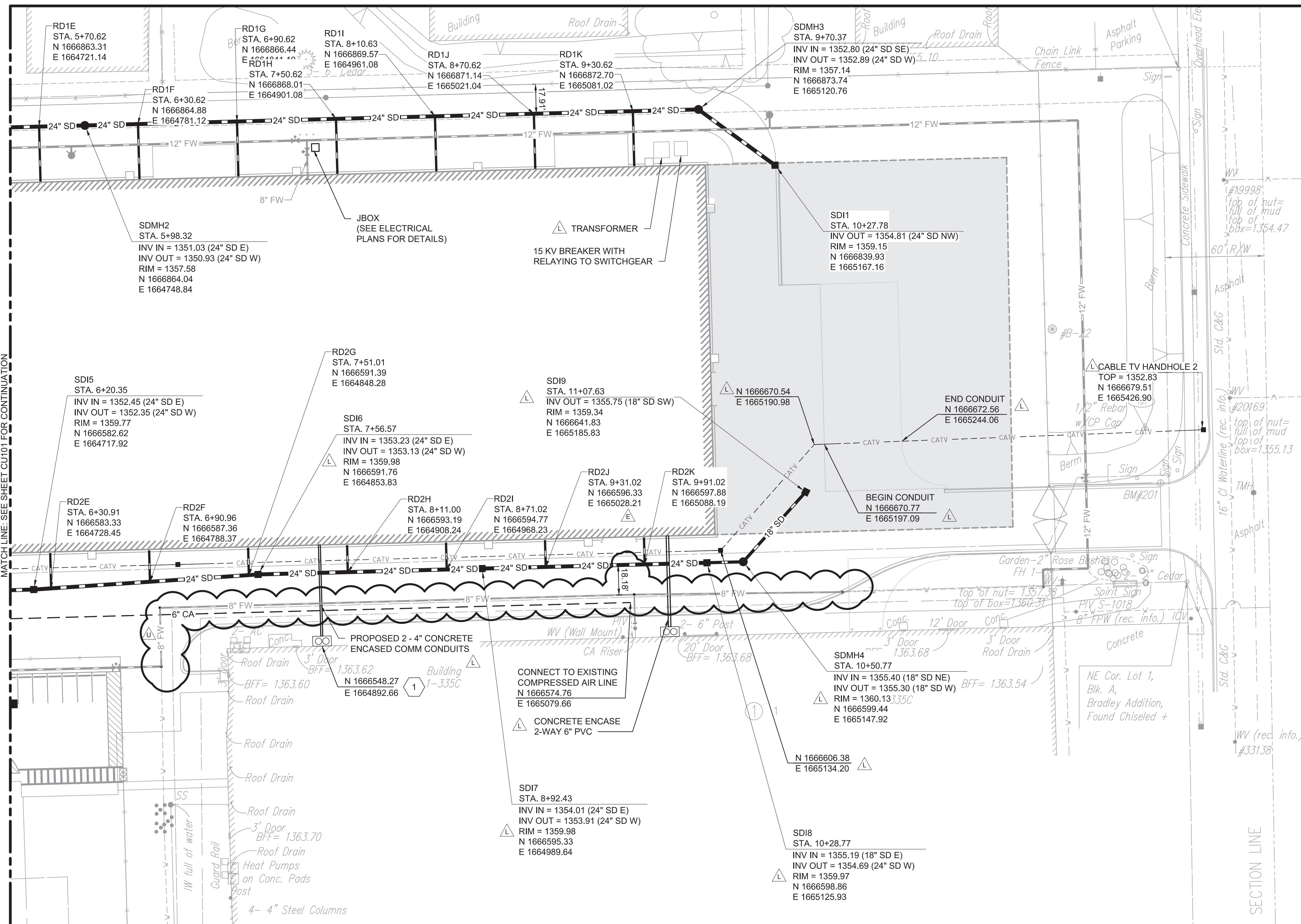
**DOMESTIC & FIRE WATER PLAN 2**



**BURNS MEDONNELL**  
9400 Ward Parkway  
Kansas City, MO 64114  
www.burnsmcd.com



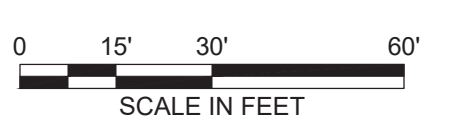
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**KEYED NOTES:**

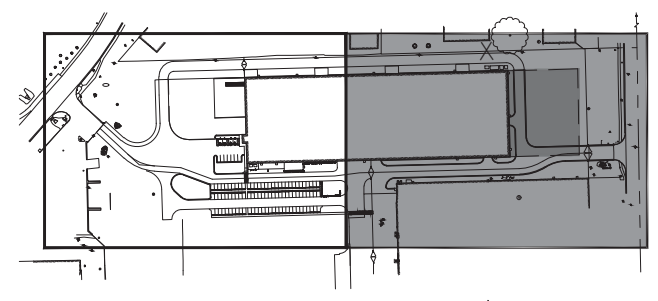
- 1 COORDINATE COMM LOCATION AND BUILDING CONNECTION WITH THE ELECTRICAL PLANS AND THE ELECTRICAL CONTRACTOR.

**UTILITY PLAN 2**



**LEGEND**

- SS PROPOSED SANITARY LINE
- SD PROPOSED STORM LINE
- W PROPOSED WATER LINE
- G PROPOSED GAS LINE
- CA PROPOSED COMPRESSED AIR LINE
- ===== PROPOSED ELECTRICAL CONDUIT
- FH FIRE HYDRANT
- PVI POST INDICATOR VALVE
- SD STORM DRAIN
- SDAI STORM DRAIN AREA INLET



**KEY PLAN**  
NOT TO SCALE

**LEGEND**

- SS PROPOSED SANITARY LINE
- SD PROPOSED STORM LINE
- W PROPOSED WATER LINE
- G PROPOSED GAS LINE
- CA PROPOSED COMPRESSED AIR LINE
- ===== PROPOSED ELECTRICAL CONDUIT
- FH FIRE HYDRANT
- PVI POST INDICATOR VALVE
- SD STORM DRAIN
- SDAI STORM DRAIN AREA INLET

**NOTES:**

- SEE ELECTRICAL PLANS FOR HANDHOLE AND DUCTBANK DETAILS.
- CIVIL SUBCONTRACTOR SCOPE SHALL EXTEND TO 12 FEET OUTSIDE THE BUILDING FOR ALL UTILITIES UNLESS NOTED OTHERWISE. CIVIL SUBCONTRACTOR SHALL PROVIDE TEMPORARY STUB-UP UNLESS OTHERWISE COORDINATED WITH PLUMBING SUBCONTRACTOR.
- SEE MECHANICAL, PLUMBING, AND ELECTRICAL SHEETS FOR CONTINUATION OF ALL UTILITIES AT THE 12 FOOT LINE.
- ALL MANHOLES SHALL BE PRECAST STANDARD MANHOLE TYPE A PER THE CITY OF WICHITA STANDARD SPECIFICATIONS, OR APPROVED EQUAL. SUBCONTRACTOR SHALL SUBMIT MANHOLE PRODUCT DATA, DESIGN CALCULATIONS, AND BUOYANCY CALCULATIONS SEALED BY A REGISTERED PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.
- STORM SEWER PIPES OF 12" DIAMETER OR GREATER SHALL BE HIGH DENSITY POLYETHYLENE, DOWNSPOUT CONNECTION PIPES SHALL BE PVC, AND STORM CULVERTS SHALL BE RCP. SEE THE SPECIFICATIONS FOR MORE INFORMATION.

13SEPT2018 - PKG 1A - SITE WORK - REV U  
PE CONTACT: WAYNE HERBERT @ 316-523-2359

APPROVED	BY	DATE	DESCRIPTION
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NT	CAK	04/27/2018	FIG 1A SITE WORK - FC - ECA02
NT	CAK	06/01/2018	FIG 1A SITE WORK - REV L
NT	CAK	06/22/2018	FIG 1A SITE WORK - REV N
NT	CAK	09/13/2018	FIG 1A SITE WORK - REV U

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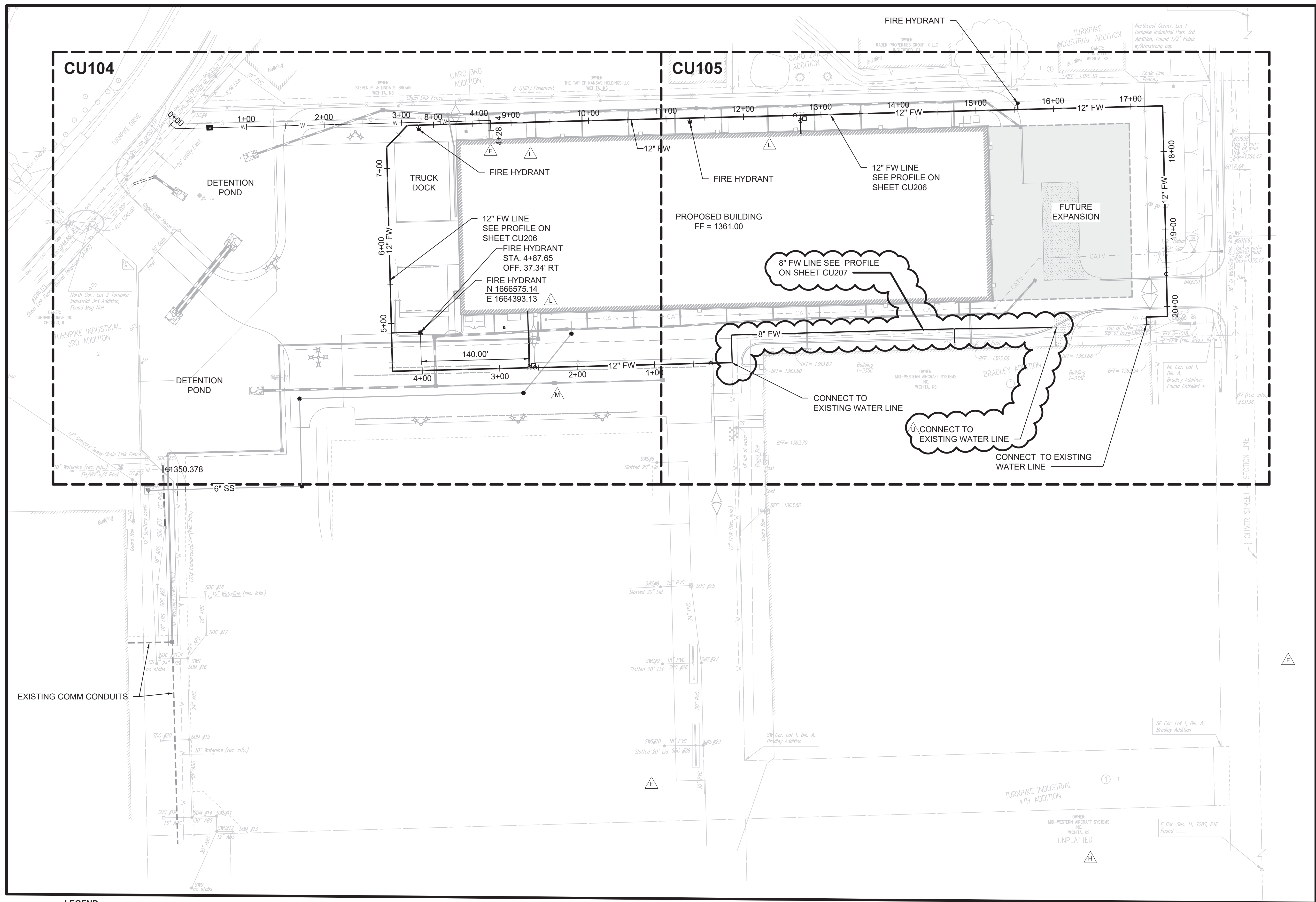
**19889**  
9/14/2018  
KANSAS  
PROFESSIONAL ENGINEER

Facilities Engineering  
**AUTOMATED WAREHOUSE**  
WICHITA, KS  
Wichita, KS  
Designed by: C. RINGSLAND  
Drawn by: J. JENKINS

Project No: 6936  
Sheet Name: UTILITY PLAN 2  
Sheet: CU102 of XX  
Drawing No: 108M-136-XXX

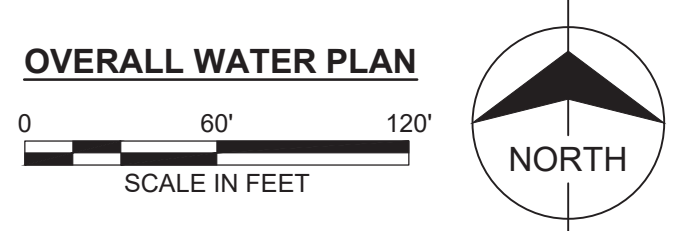


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**LEGEND**

	PROPOSED SANITARY LINE
	PROPOSED STORM LINE
	PROPOSED FIRE WATER LINE
	PROPOSED WATER LINE
	PROPOSED GAS LINE
	PROPOSED COMPRESSED AIR LINE
	PROPOSED ELECTRICAL CONDUIT

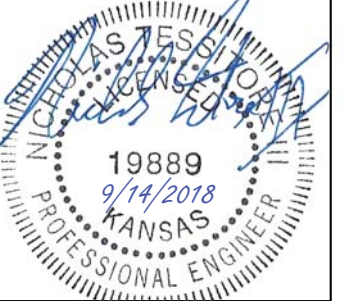


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 PE CONTACT: WAYNE HERBERT @ 316-523-2359

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NT	CAK	PKG 1A SITE WORK - REV M	08/13/2018		DATE
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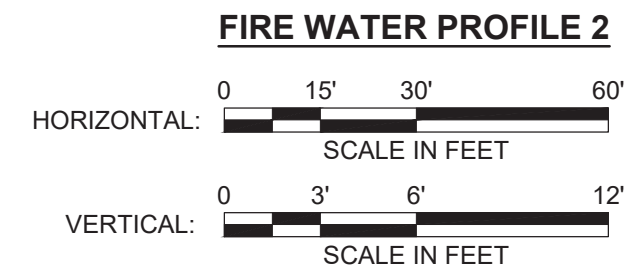
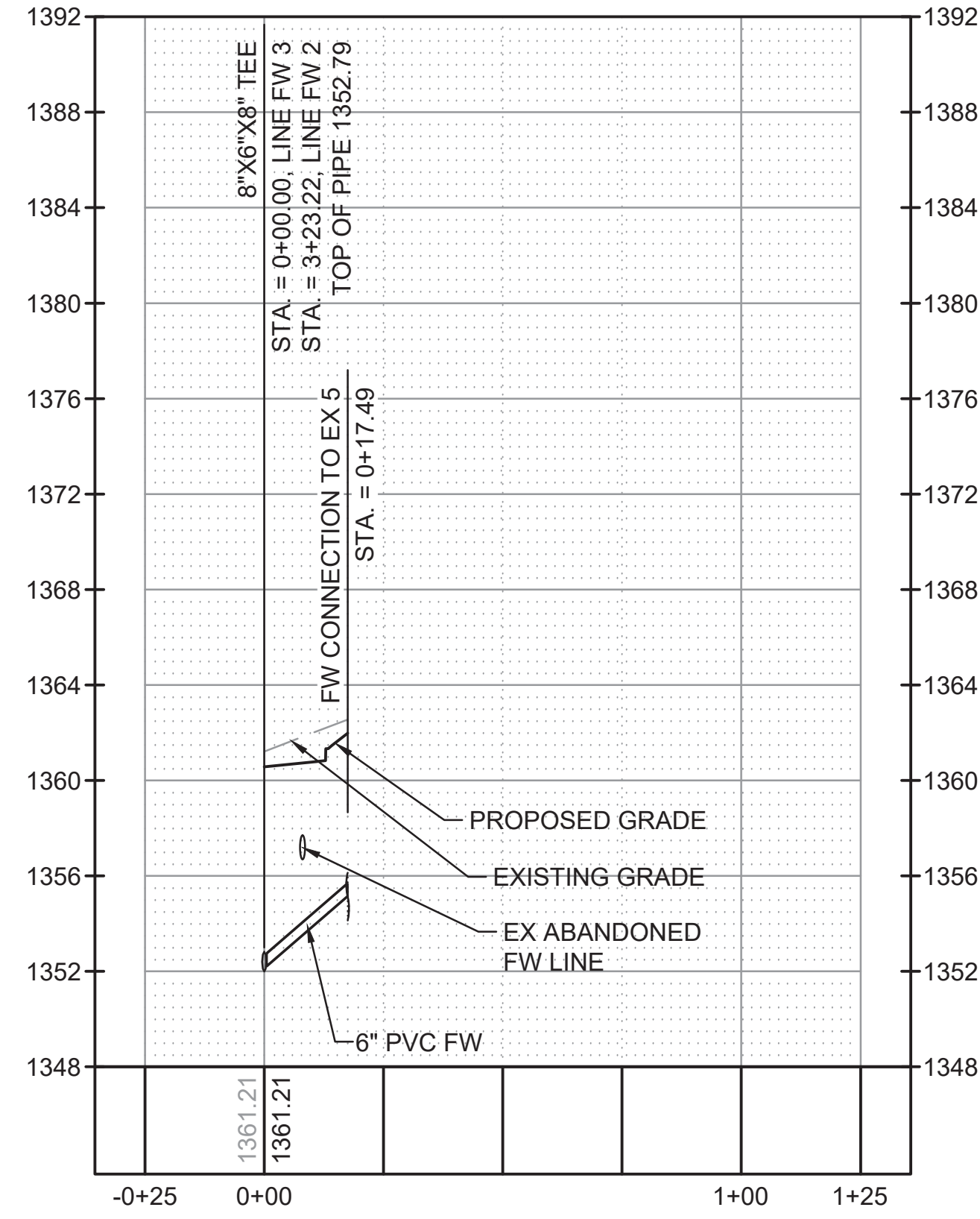
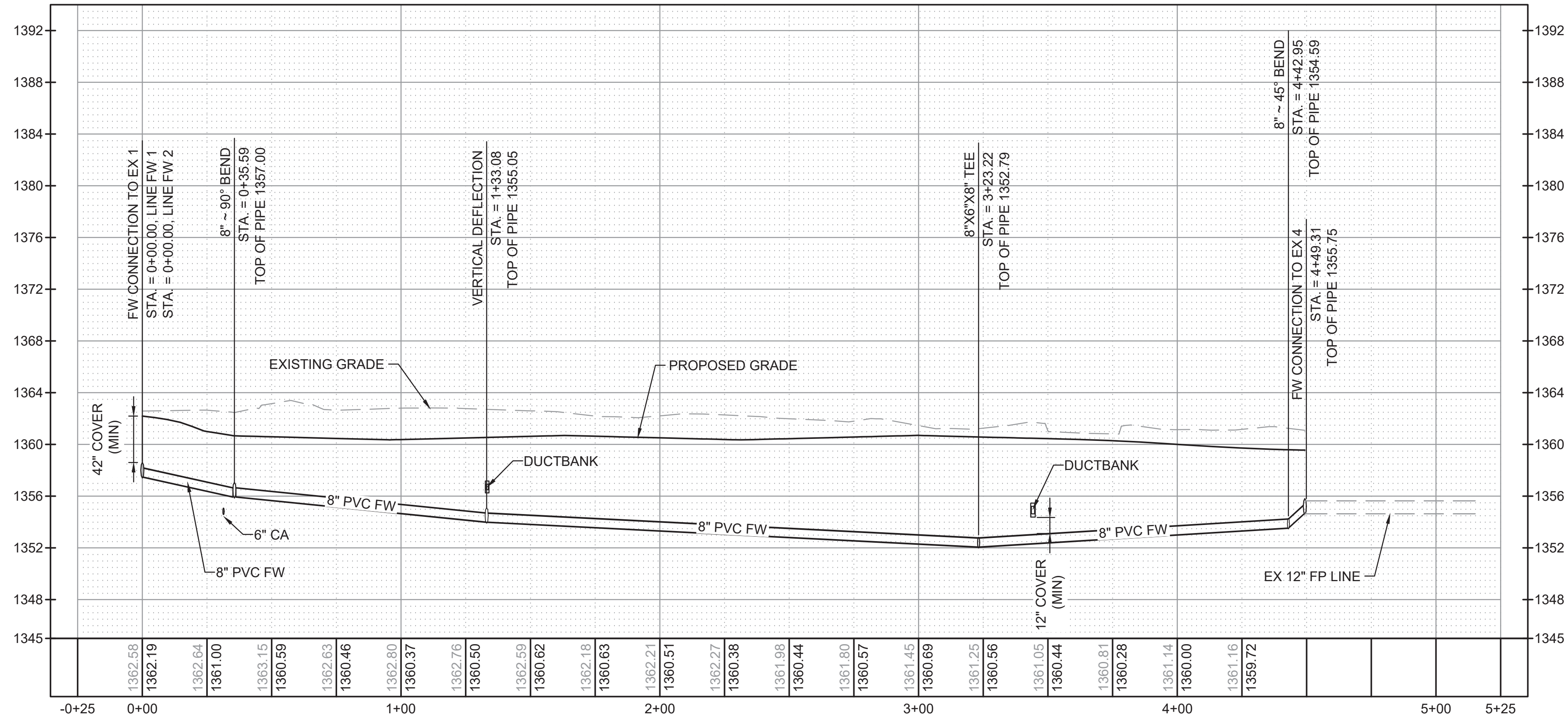
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 Kansas City, MO 64114  
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WICHITA, KS  
 03/16/2018

**AUTOMATED WAREHOUSE**  
 Facilities Engineering  
 BLDG-1-338G  
 Drawn by: J. JENKINS

Project No: 6936  
 Sheet Name: OVERALL WATER  
 Sheet: CU103 of XX  
 Drawing No: 108M-137-XXX



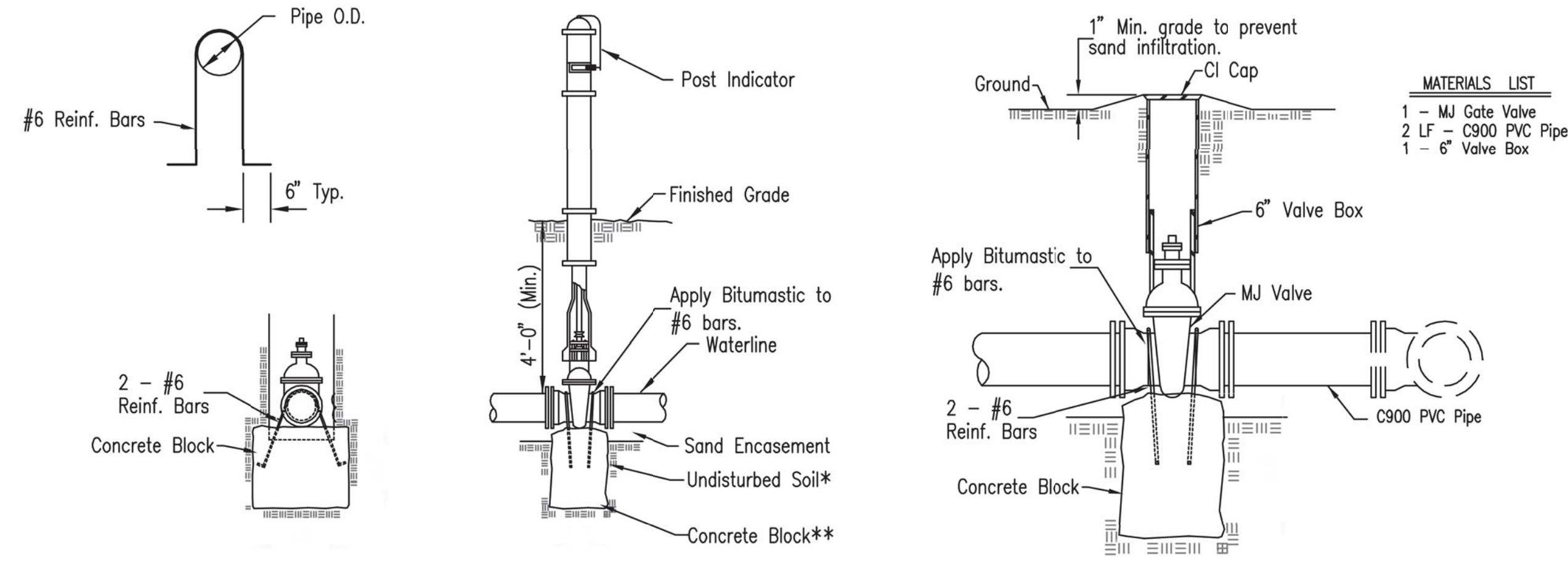
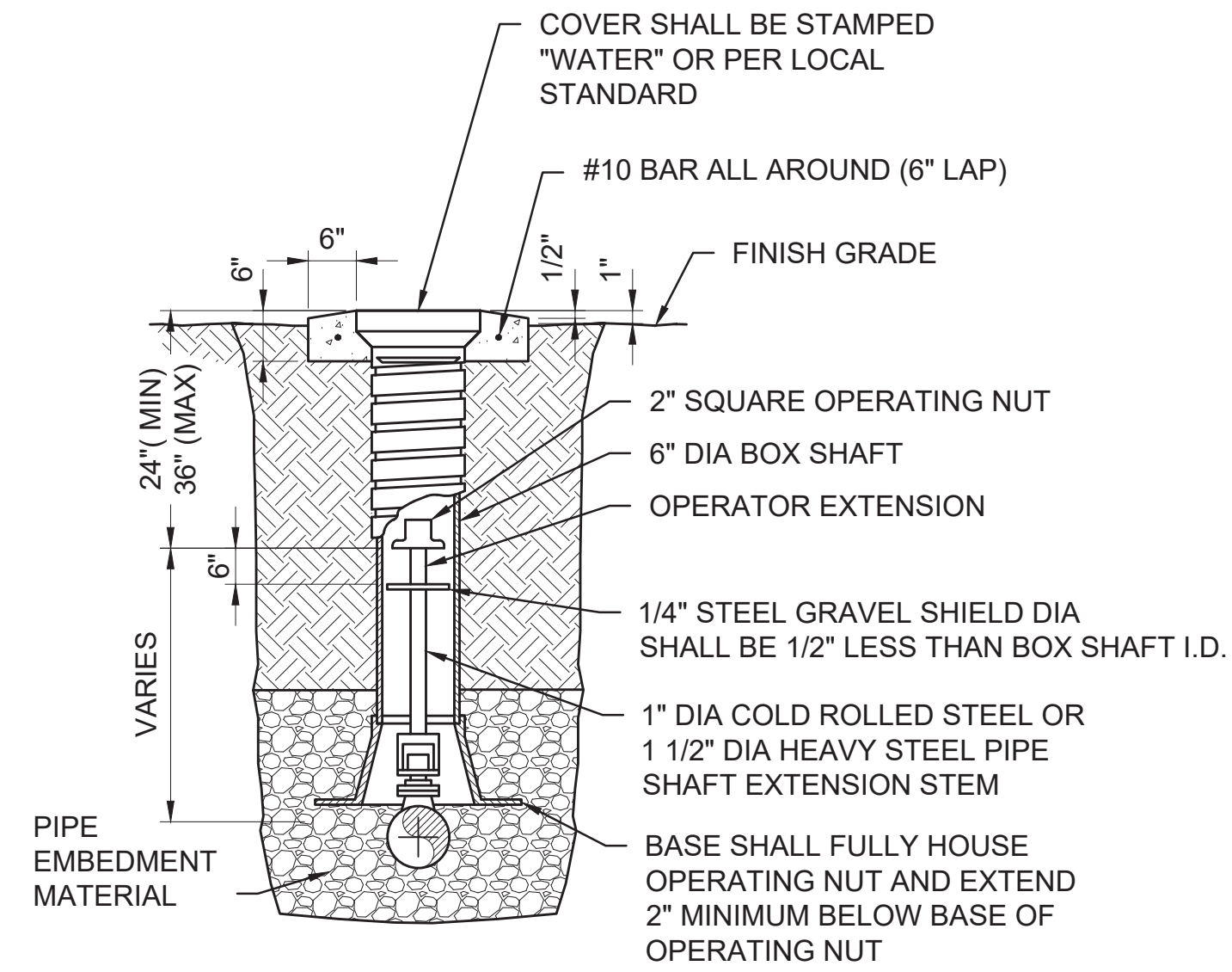
**NOTES:**

1. FIELD-CONFIRM EXISTING PIPING ELEVATIONS AT TIE-INS PRIOR TO CONSTRUCTION.
2. SUBCONTRACTOR SHALL INSTALL THRUST BLOCKS PER DETAIL 4 ON SHEET CU502 FOR ALL VERTICAL ELEVATION CHANGES (BENDS, TEES, ETC.)

13SEPT2018 - PKG 1A - SITE WORK - REV U  
PE CONTACT: WAYNE HERBERT @ 316-523-2359

AUTOMATED WAREHOUSE Facilities Engineering BLDG-1-338G Drawn by: J. JENKINS	WICHITA, KS 09/13/2018
Project No: 6936	SHEET NAME: FIRE WTR PROFILE 2
Drawing: 108M-XXX-XXX	Design: C. HINSLAND
ACCEPTABILITY THIS DESIGN AND/OR SPECIFICATION IS APPROVED NAME: _____ DATE: _____ DEPT: _____	FIRE PROTECTION REVIEW REVIEWED: _____ DATE: _____ APPROVED: _____ DATE: _____ NOT REQUIRED: _____ DATE: _____
DATE: 09/13/2018 PKG 1A SITE WORK, REV U	DESCRIPTION:
BY: CJK	APPROVED: NT

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**MATERIALS LIST**

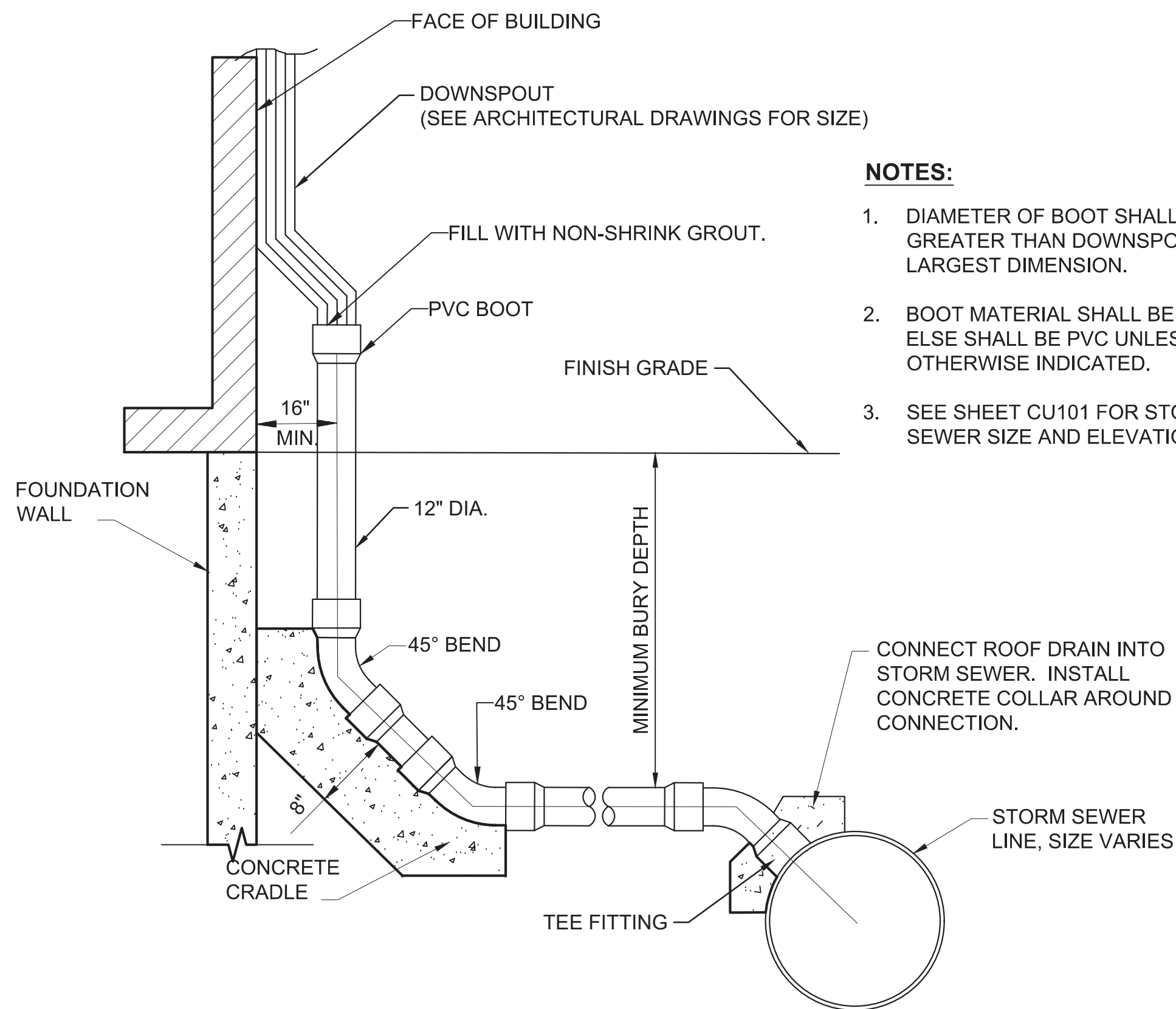
- 1 - MJ Gate Valve
- 2 LF - C900 PVC Pipe
- 1 - 6\"/>

**NOTES:**

1. VALVE BOX SHALL NOT REST ON OPERATING ASSEMBLY.
2. VALVE BOXES LOCATED IN VEHICULAR AREAS SHALL BE TRAFFIC RATED.
3. VALVE BOXES LOCATED IN PAVED AREAS SHALL BE INSTALLED FLUSH WITH FINAL GRADING.
4. CONCRETE COLLAR MAY BE LOWERED ON RISER ASSEMBLY TO ACCOMMODATE SPECIAL FINISH GRADING.
5. VALVE BOX SHALL BE PAINTED WITH HEAVY COAT OF BITUMINOUS PAINT.
6. A CORROSIVE RESISTANT DEBRIS CAP SHALL BE INSTALLED TO PREVENT DEBRIS FROM PASSING AROUND THE CAP AND DOWN INTO THE VALVE HOUSING. THE CAP SHALL BE HELD IN PLACE BY A MECHANISM WHICH WILL NOT DAMAGE THE VALVE HOUSING. CAP SHALL BE CONSTRUCTED TO ALLOW THE DEVICE TO BE SECURED BY A LOCK. HANDLE AND BODY OF THE CAP SHALL BE INTEGRALLY COLORED AS REQUIRED BY LOCAL STANDARDS.

**SCREW SHAFT-TYPE VALVE BOX**

DETAIL 1 CU107



**NOTES:**

1. DIAMETER OF BOOT SHALL BE 1/2\"/>

**DOWNSPOUT CONNECTION**

DETAIL 3 CU107

**VE WITH INDICATOR POST**

DETAIL 2 CU107

**11 1/4° THRU 30° BENDS**

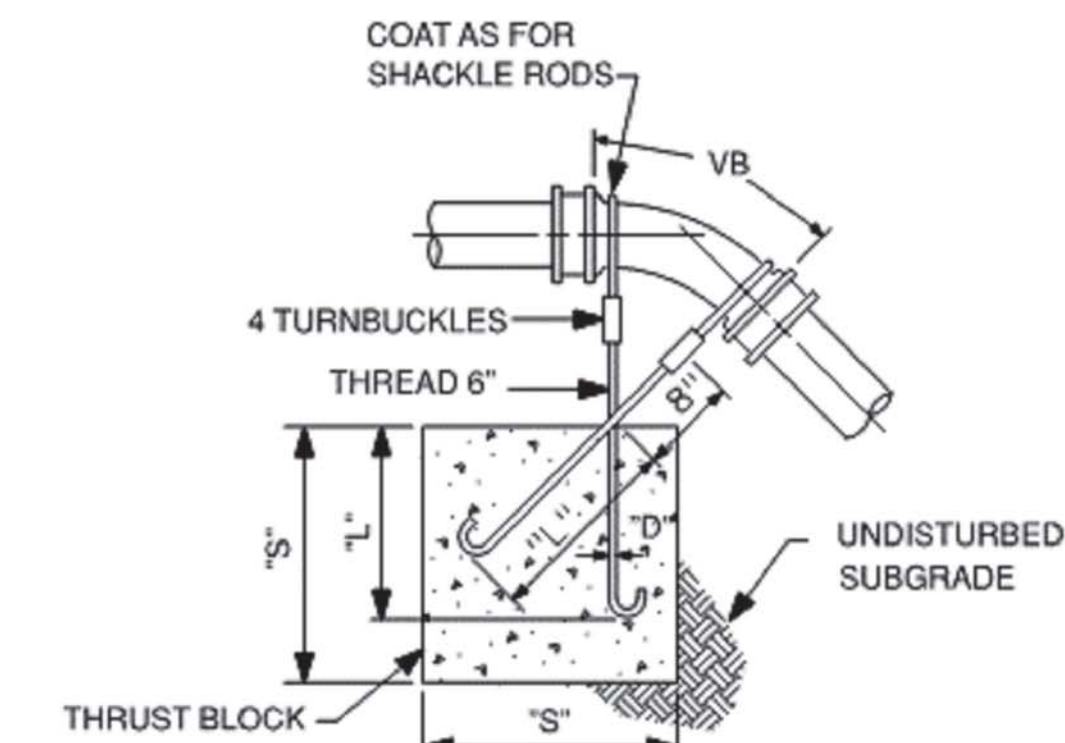
Q20011

TYPE "A" THRUST BLOCK TABLE							
PIPE SIZE (INCHES)	TEST PRESSURE (PSI)	VERTICAL BEND, VB (DEGREES)	NO. OF CU. FT. OF CONCRETE BLOCKING	SIDE OF CUBE, "S" (FEET)	DIAMETER OF SHACKLE RODS, "D" (INCHES)	DEPTH OF RODS IN CONCRETE, "L" (FEET)	
4	300	11 1/4	8	2.0	5/8	1.5	
		22 1/2	11	2.2		2.0	
		30	17	2.6			
6	300	11 1/4	11	2.2	5/8	2.0	
		22 1/2	25	2.9			
		30	41	3.5			
8	300	11 1/4	16	2.5	5/8	2.0	
		22 1/2	47	3.6			
		30	70	4.1		3/4	2.5
10	250	11 1/4	22	2.8	5/8	2.0	
		22 1/2	64	4.0		5/8	2.0
		30	96	4.6		3/4	2.5
12	250	11 1/4	32	3.2	5/8	2.0	
		22 1/2	88	4.5		7/8	3.0
		30	132	5.1			
14	225	11 1/4	50	3.7	3/4	2.5	
		22 1/2	133	5.1		1	3.5
		30	198	5.8		1 1/8	3.5
16	225	11 1/4	70	4.1	7/8	3.0	
		22 1/2	184	5.7		1-1/8	4.0
		30	275	6.5		1-1/4	

**THRUST BLOCK NOTES:**

- CAUTION**
1. THE SQUARE FEET OF CONCRETE THRUST BLOCK AREA IS BASED ON A SAFE BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT. FOR A BEARING LOAD OF 1000 POUNDS, MULTIPLY THE THRUST BLOCK AREA FOUND IN THE TABLE BELOW BY A FACTOR OF 2.
  2. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/2 SQUARE FOOT BEARING AGAINST THE FITTING.
  3. BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
  4. IN ADDITION TO THRUST BLOCKS, SECURE ALL JOINTS WITH RETAINER GLANDS, TIE RODS, OR FLANGE FITTINGS.
  5. CONCRETE FOR THRUST BLOCKS SHALL BE 3000 PSI @ 28 DAYS.

**FIGURE 7 - OUTSIDE FIRE PROTECTION PIPING, THRUST BLOCKS (SHEET 4 OF 5)**



**45° BEND**

Q20012

TYPE "B" THRUST BLOCK TABLE						
PIPE SIZE (INCHES)	TEST PRESSURE (PSI)	VERTICAL BEND, VB (DEGREES)	NO. OF CU. FT. OF CONCRETE BLOCKING	SIDE OF CUBE, "S" (FEET)	DIAMETER OF SHACKLE RODS, "D" (INCHES)	DEPTH OF RODS IN CONCRETE, "L" (FEET)
4	300	45	30	3.1	5/8	2.0
			68	4.1		
			123	5.0		
6	250	45	30	3.1	3/4	2.5
			68	4.1		
			123	5.0		
8	250	45	30	3.1	3/4	2.5
			68	4.1		
			123	5.0		
12	225	45	30	3.1	1-1/8	4.0
			68	4.1		
			123	5.0		

**THRUST BLOCK NOTES:**

- CAUTION**
1. THE SQUARE FEET OF CONCRETE THRUST BLOCK AREA IS BASED ON A SAFE BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT. FOR A BEARING LOAD OF 1000 POUNDS, MULTIPLY THE THRUST BLOCK AREA FOUND IN THE TABLE BELOW BY A FACTOR OF 2.
  2. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/2 SQUARE FOOT BEARING AGAINST THE FITTING.
  3. BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
  4. IN ADDITION TO THRUST BLOCKS, SECURE ALL JOINTS WITH RETAINER GLANDS, TIE RODS, OR FLANGE FITTINGS.
  5. CONCRETE FOR THRUST BLOCKS SHALL BE 3000 PSI @ 28 DAYS.

**FIGURE 8 - OUTSIDE FIRE PROTECTION PIPING, THRUST BLOCKS (SHEET 5 OF 5)**

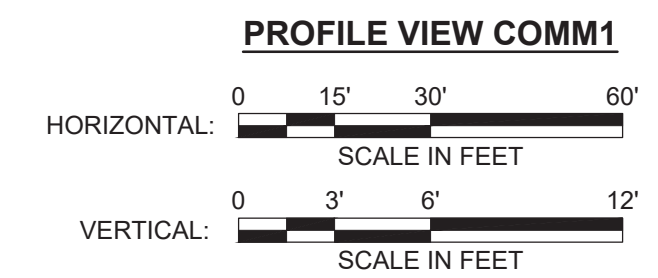
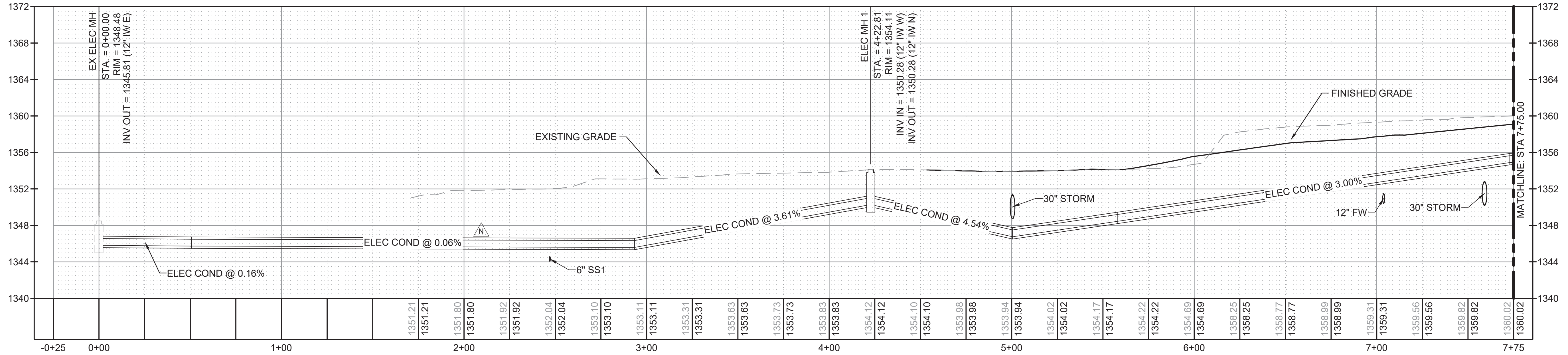
**THRUST BLOCKS**

DETAIL 4 CU107

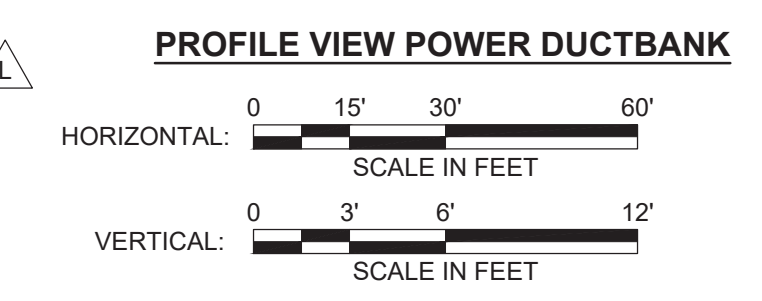
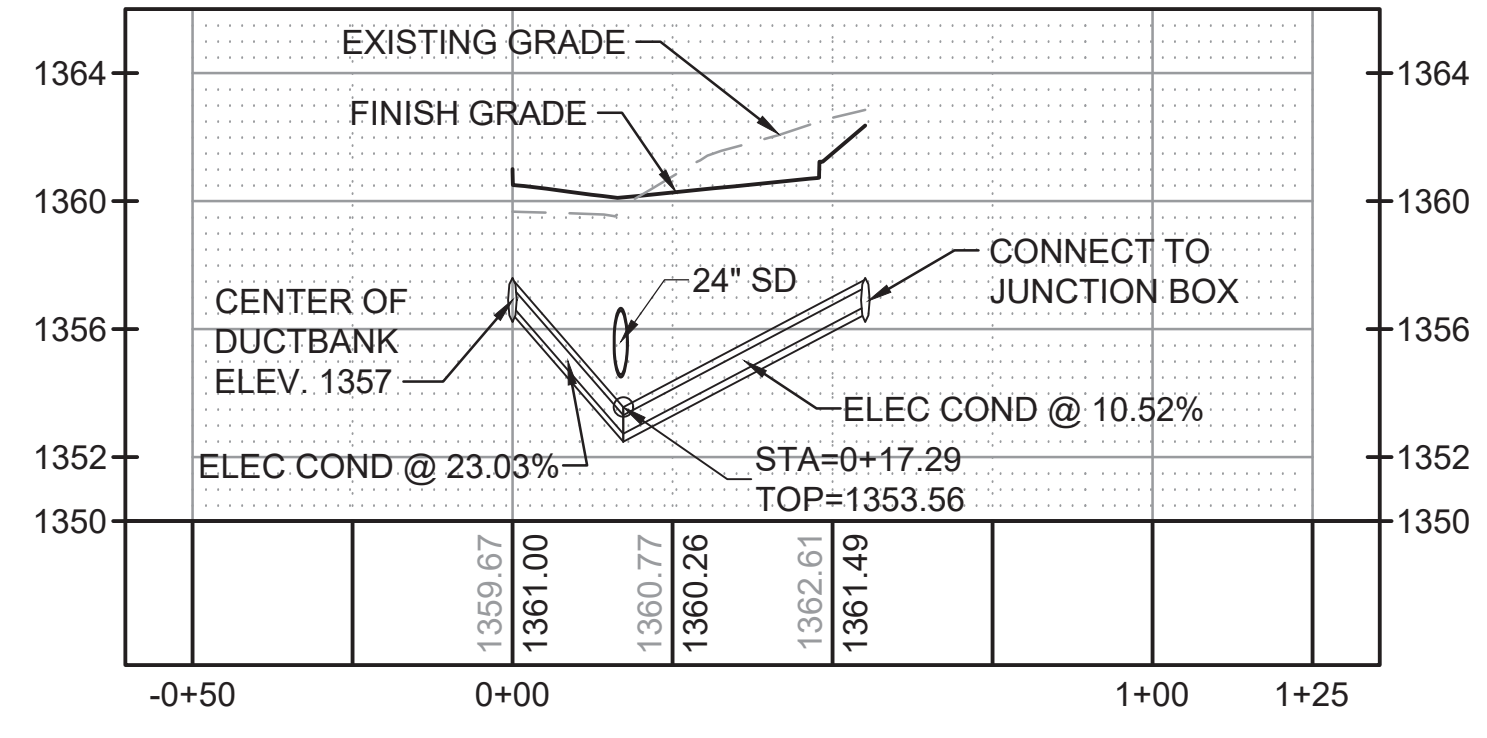
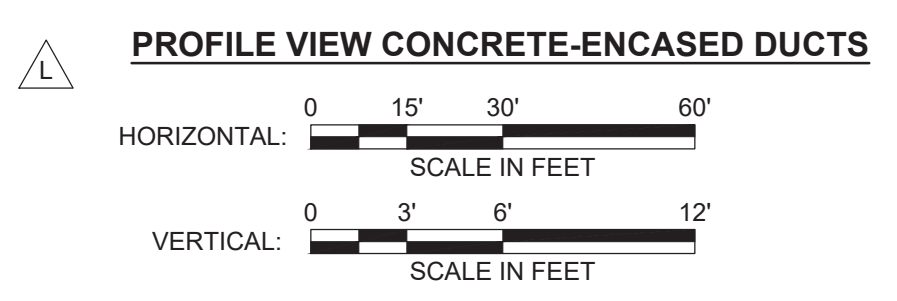
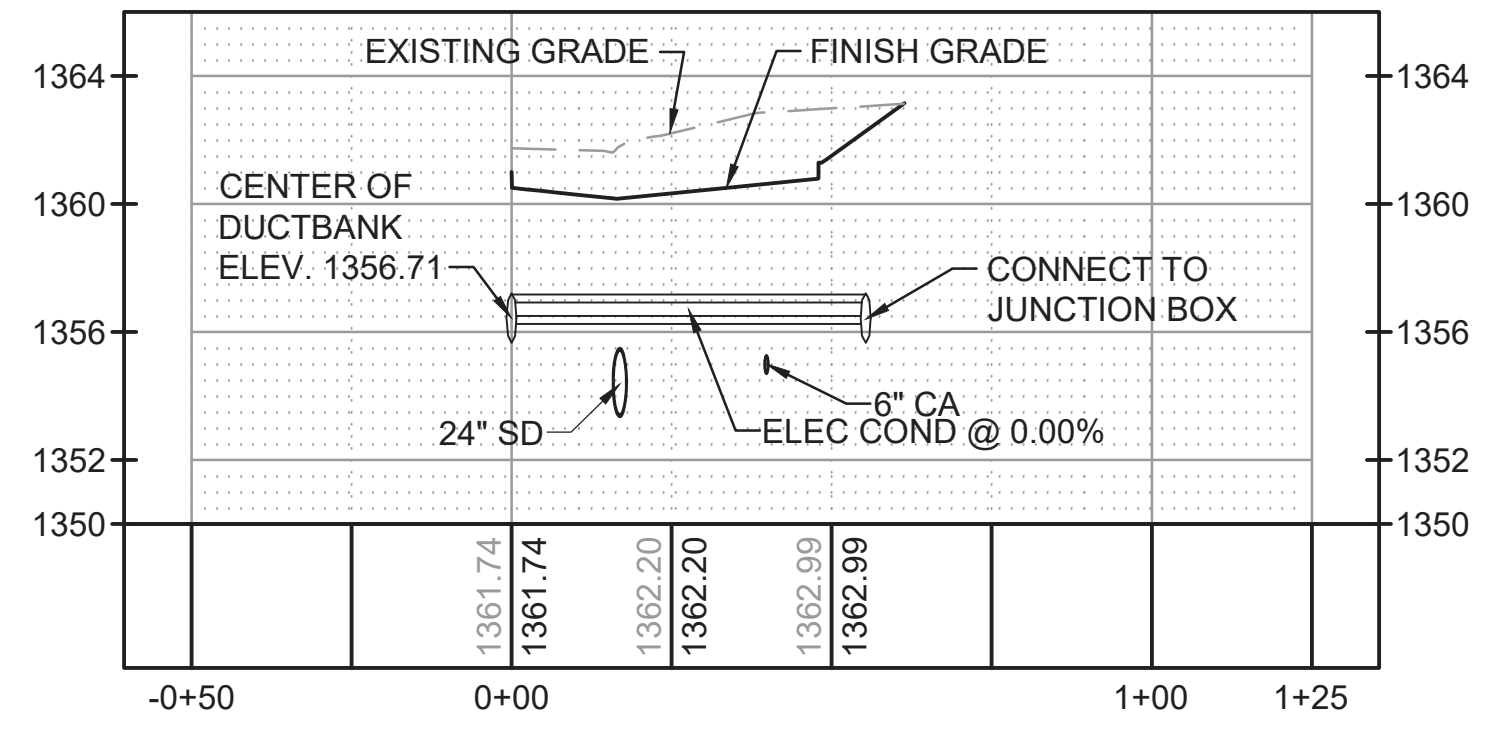
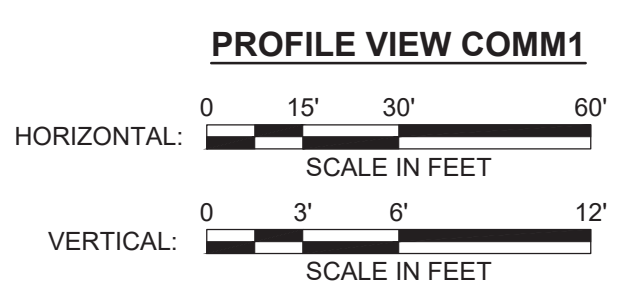
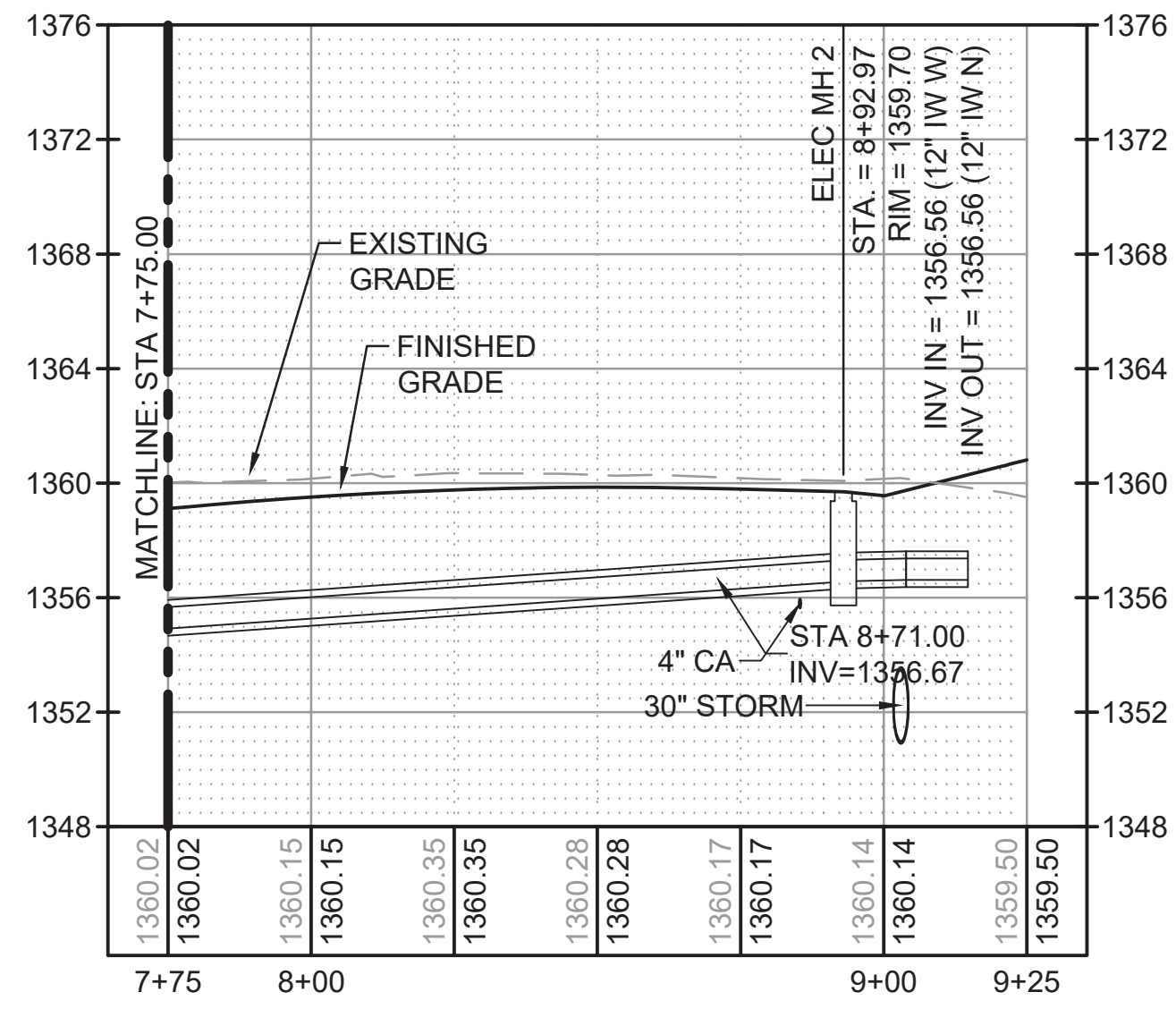
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PE CONTACT: WAYNE HERBERT @ 316-523-2359

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NT	CHK		03/09/2018				
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Facilities Engineering				WICHITA, KS			
AUTOMATED WAREHOUSE				BLDG-1-338G			
Project No. 6936				Designed by: C. RINGSLAND			
Sheet Name: UTILITY DETAILS 2				02/23/2018			
Sheet: CU502 of XX							
Drawing No. 108M-147-XXX							

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PE CONTACT: WAYNE HERBERT @ 316-523-2359

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WICHITA, KS 03/5/18

Facilities Engineering

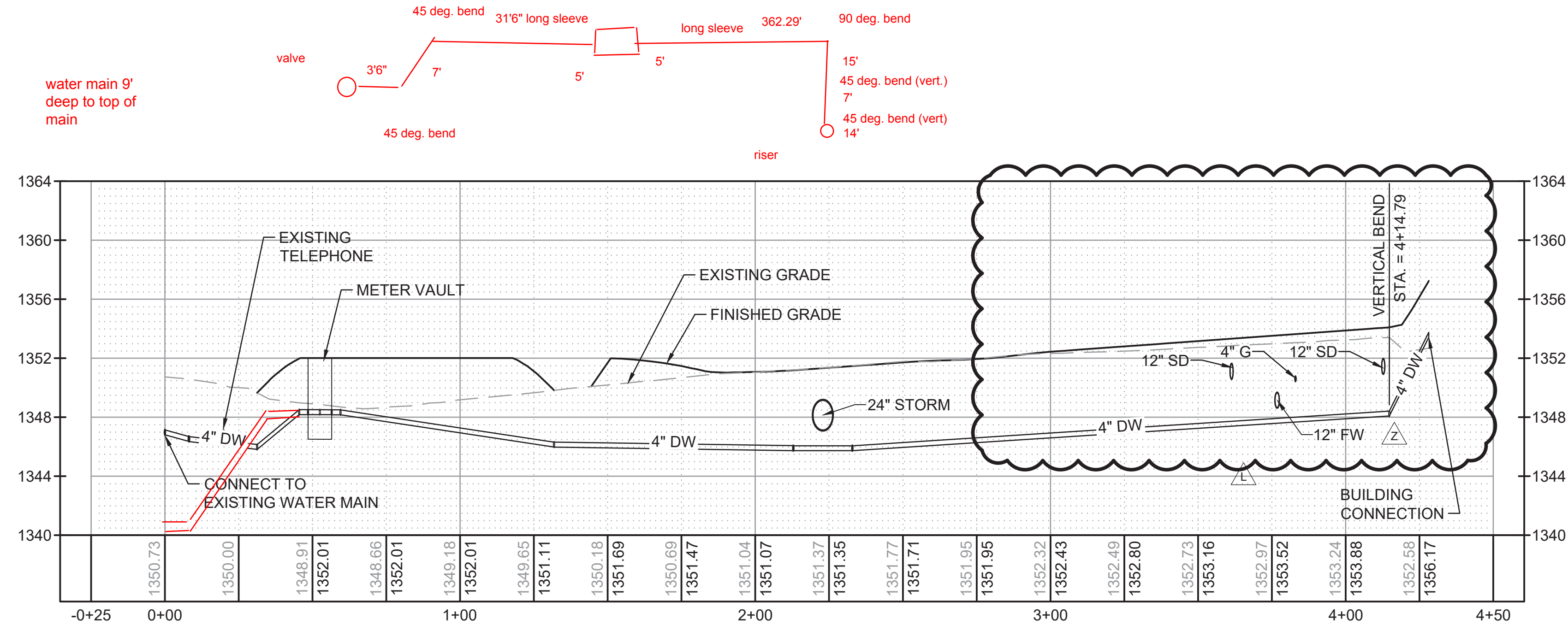
**AUTOMATED WAREHOUSE**

BLDG-1-338G

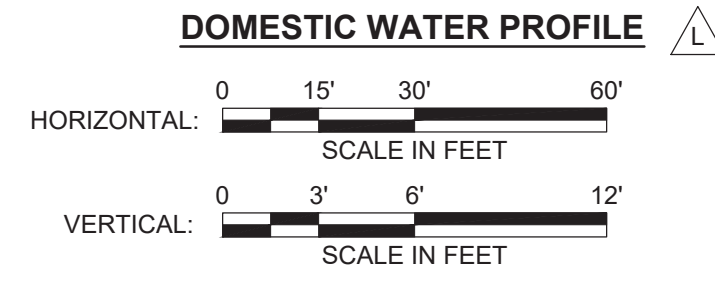
Designed by: C. RINGSLAND

Project No.	6936
Sheet Name:	DUCTBANK PROFILE
Sheet:	CU204 of XX
Drawing No.	108M-140-XXX

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SEE PAGE  
CU104



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**AUTOMATED WAREHOUSE**  
WICHITA, KS 03/16/2018

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Professional Engineer  
19889  
11/16/2018  
KANSAS



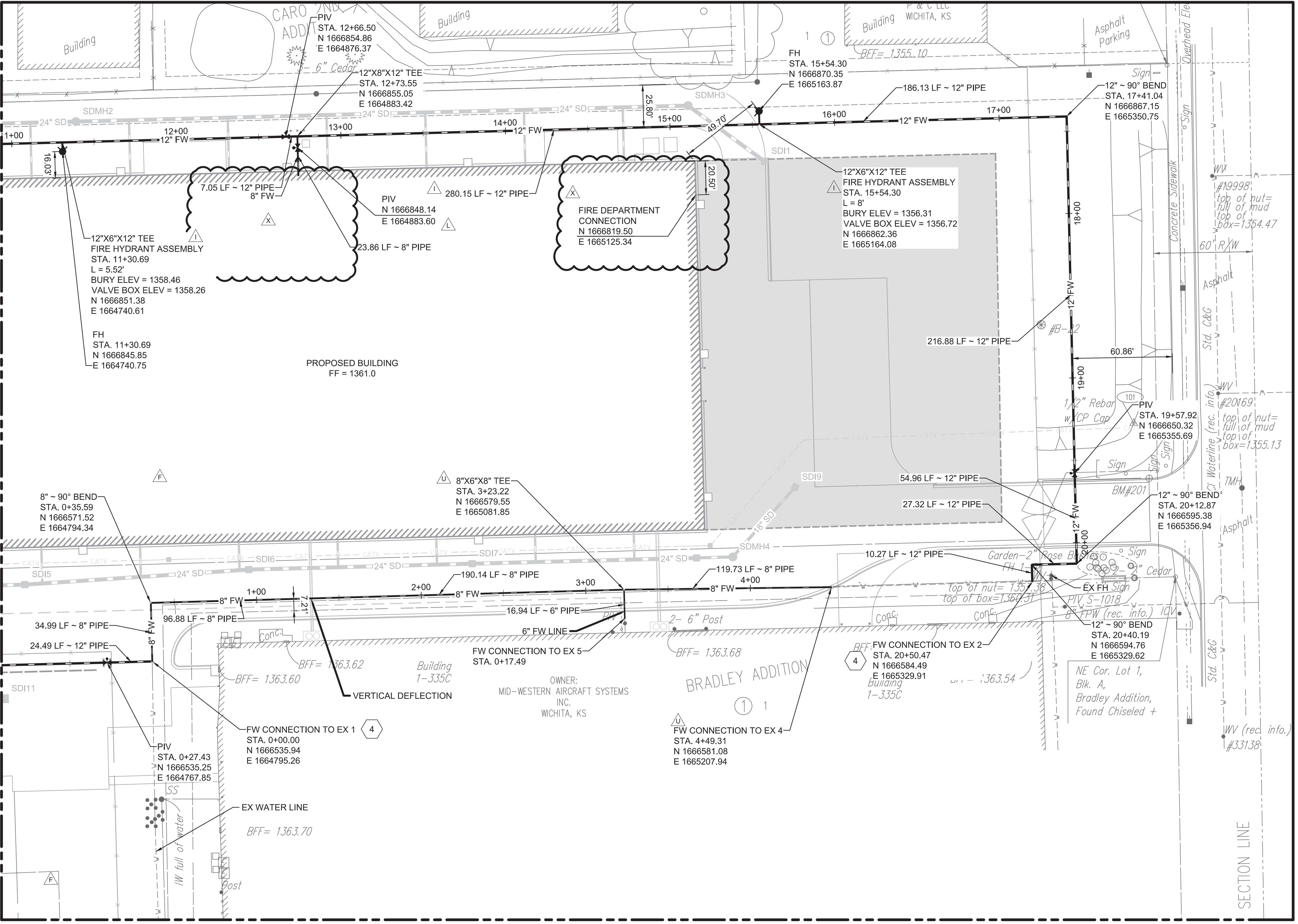
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DATE	DESCRIPTION	BY	APPROVED
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03/29/2018	PKG 1A SITE WORK - FC - ADD2	CAK	NT
04/12/2018	PKG 1A SITE WORK - FC - ADD3	CAK	NT
06/01/2018	PKG 1A SITE WORK - REV L	CAK	NT
11/16/2018	PKG 1A SITE WORK - REV Z	CAK	NT

Project No. 6936  
Sheet Name: DOM WTR PROFILE  
Sheet CU205 of XX  
Drawing No. 108M-144-XXX



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**LEGEND**

- SS PROPOSED SANITARY LINE
- SD PROPOSED STORM LINE
- 12" FW PROPOSED 12" FIRE LINE
- W PROPOSED WATER LINE
- G PROPOSED GAS LINE
- CA PROPOSED COMPRESSED AIR LINE
- PROPOSED ELECTRICAL CONDUIT
- FH FIRE HYDRANT
- PVI POST INDICATOR VALVE
- SD STORM DRAIN
- SDAI STORM DRAIN AREA INLET

- NOTES:**
- CIVIL SUBCONTRACTOR SCOPE SHALL EXTEND TO 12 FEET OUTSIDE THE BUILDING FOR ALL UTILITIES UNLESS NOTED OTHERWISE. CIVIL SUBCONTRACTOR SHALL PROVIDE TEMPORARY STUB-UP UNLESS OTHERWISE COORDINATED WITH PLUMBING SUBCONTRACTOR.
  - SEE MECHANICAL, PLUMBING, AND ELECTRICAL SHEETS FOR CONTINUATION OF ALL UTILITIES AT THE 12 FOOT LINE.
  - CIVIL CONTRACTOR FIREWATER SCOPE SHALL EXTEND TO A POINT 36" INSIDE THE BUILDING. SUBCONTRACTOR SHALL CHANGE PIPE MATERIALS FROM PVC TO WRAPPED DUCTILE IRON 5' OUTSIDE THE BUILDING. SUBCONTRACTOR SHALL PROVIDE A FLANGED CONNECTION 12" ABOVE FINISHED FLOOR. COORDINATE PENETRATION AND STUB-UP LOCATION WITH THE STRUCTURAL AND FIRE PROTECTION DRAWINGS. REFER TO FIRE PROTECTION SPECIFICATIONS FOR PIPE MATERIAL REQUIREMENTS.
  - INSTALL NEW 12"x12"x12" TEE TO CONNECT TO EXISTING FIRE MAIN. SUBCONTRACTOR SHALL COORDINATE TEMPORARY FIRE MAIN SHUT DOWN WITH CONTRACTOR.
  - REFER TO DETAIL 4 ON SHEET CU501 FOR FIRE HYDRANT DETAIL AND LOCATION BURY LINE ELEVATION.

APPROVED	BY	DESCRIPTION
CAK	CAK	PGC 1A SITE WORK - PFC - EDC02
CAK	CAK	PGC 1A SITE WORK - REV L
CAK	CAK	PGC 1A SITE WORK - REV N
CAK	CAK	PGC 1A SITE WORK - REV U
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DATE	REVIEW	DATE	REVIEW
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06/01/2018	N		
08/22/2018	U		
09/13/2018	X		

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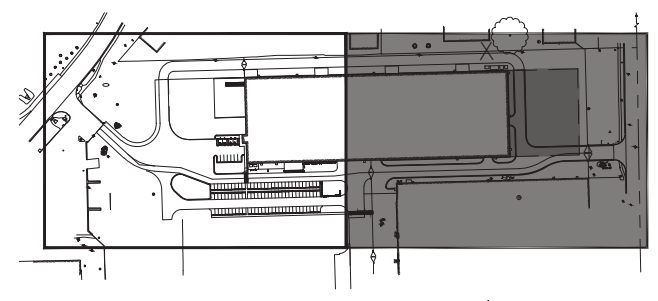
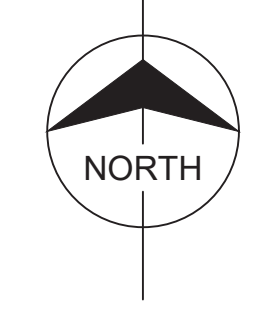
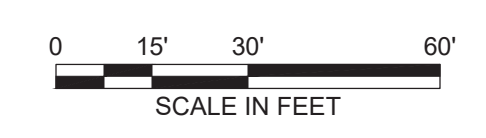
**PROFESSIONAL ENGINEER**  
 19889  
 10/31/2018  
 KANSAS

Facilities Engineering  
**AUTOMATED WAREHOUSE**  
 WICHITA, KS 03/16/2018

Project No. 6936  
 Sheet Name: D & F WATER PLAN 2  
 Sheet: CU105 of XX  
 Drawing No. 108M-XXX-XXX

MATCH LINE: SEE SHEET CU103 FOR CONTINUATION

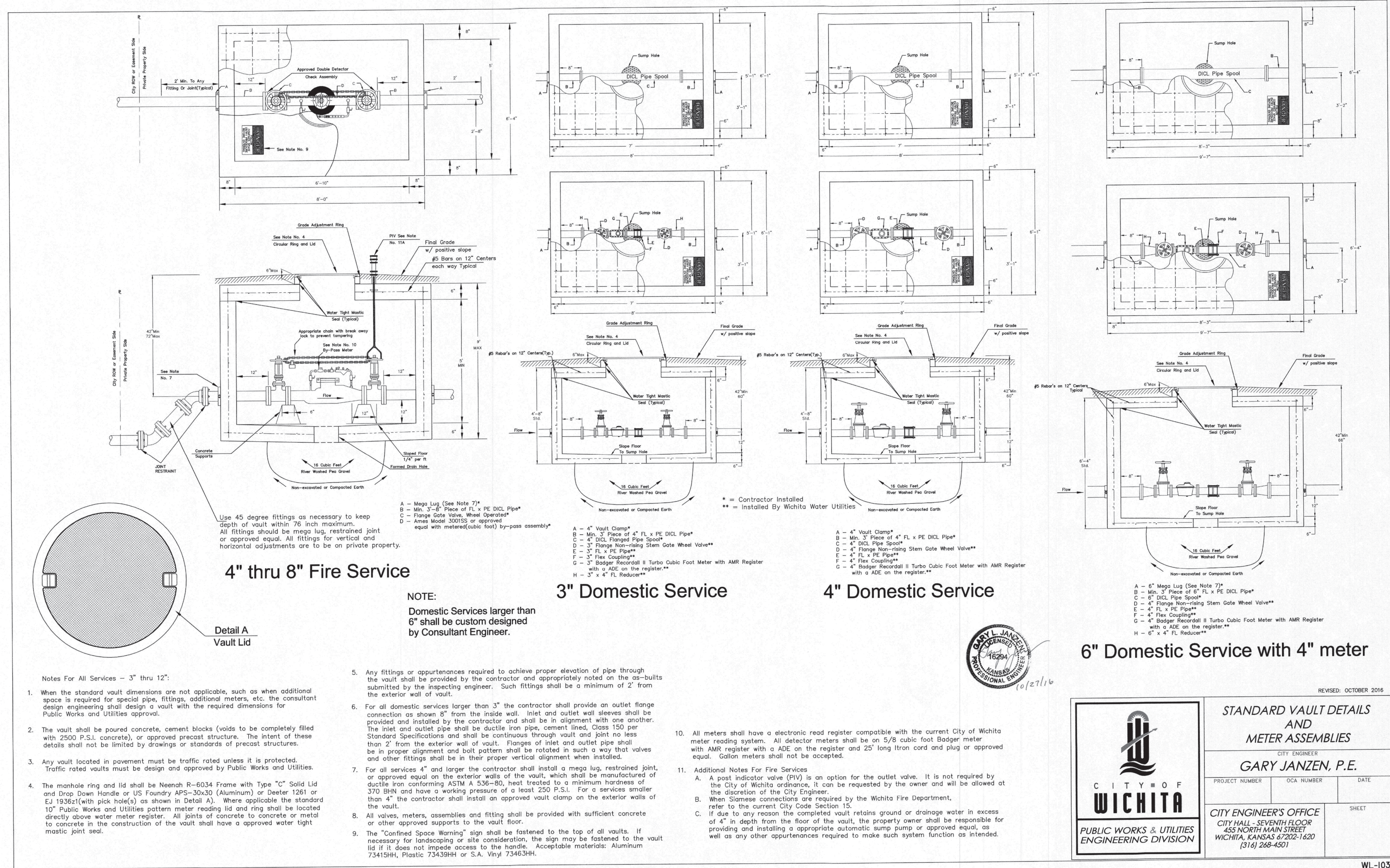
**DOMESTIC & FIRE WATER PLAN 2**



**KEY PLAN**  
 NOT TO SCALE

01NOV2018 - PKG 1A - SITE WORK REV X  
 PE CONTACT: WAYNE HERBERT @ 316-523-2359





REVISED: OCTOBER 2016

**STANDARD VAULT DETAILS AND METER ASSEMBLIES**

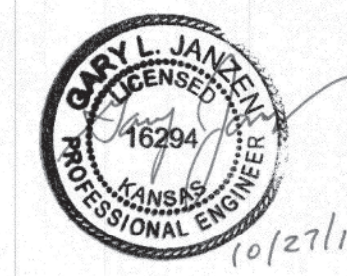
CITY ENGINEER  
**GARY JANZEN, P.E.**

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-103**



16NOV2018 - PKG 1A - SITE WORK - REV Z  
 PE CONTACT: WAYNE HERBERT @ 316-523-2359

Project No.	6936	APPROVED	BY	DESCRIPTION
Sheet Name:	UTILITY DETAILS 4	CHK	NT	FIG 1A - SITE WORK - FC - ADD 3
Sheet:	CU504 of XX	CHK	NT	FIG 1A - SITE WORK - FC - ECA02
Drawing No.	108M-149-XXX	CHK	NT	FIG 1A - SITE WORK - REV Z

FIRE PROTECTION REVIEW BY	DATE	DATE
JIM DOCKRMAN	04/27/2018	11/16/2018
03/02/2018 - 10/01/2020		
APPROVED	APPROVED	NOT REQUIRED
DATE	DATE	DATE

ACCEPTABILITY THIS DESIGN AND/OR SPECIFICATION IS APPROVED	DATE	DATE
NAME	10-10-2018	
DEPT.		
SS		
PE		

BURNS & MEDONNELL

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 Kansas City, MO 64114  
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19889  
 11/16/2018  
 KANSAS  
 PROFESSIONAL ENGINEER

Facilities Engineering	WICHITA, KS
<b>AUTOMATED WAREHOUSE</b>	04/12/18
BLDG-1-338G	Designed by: C. RINSSLAND