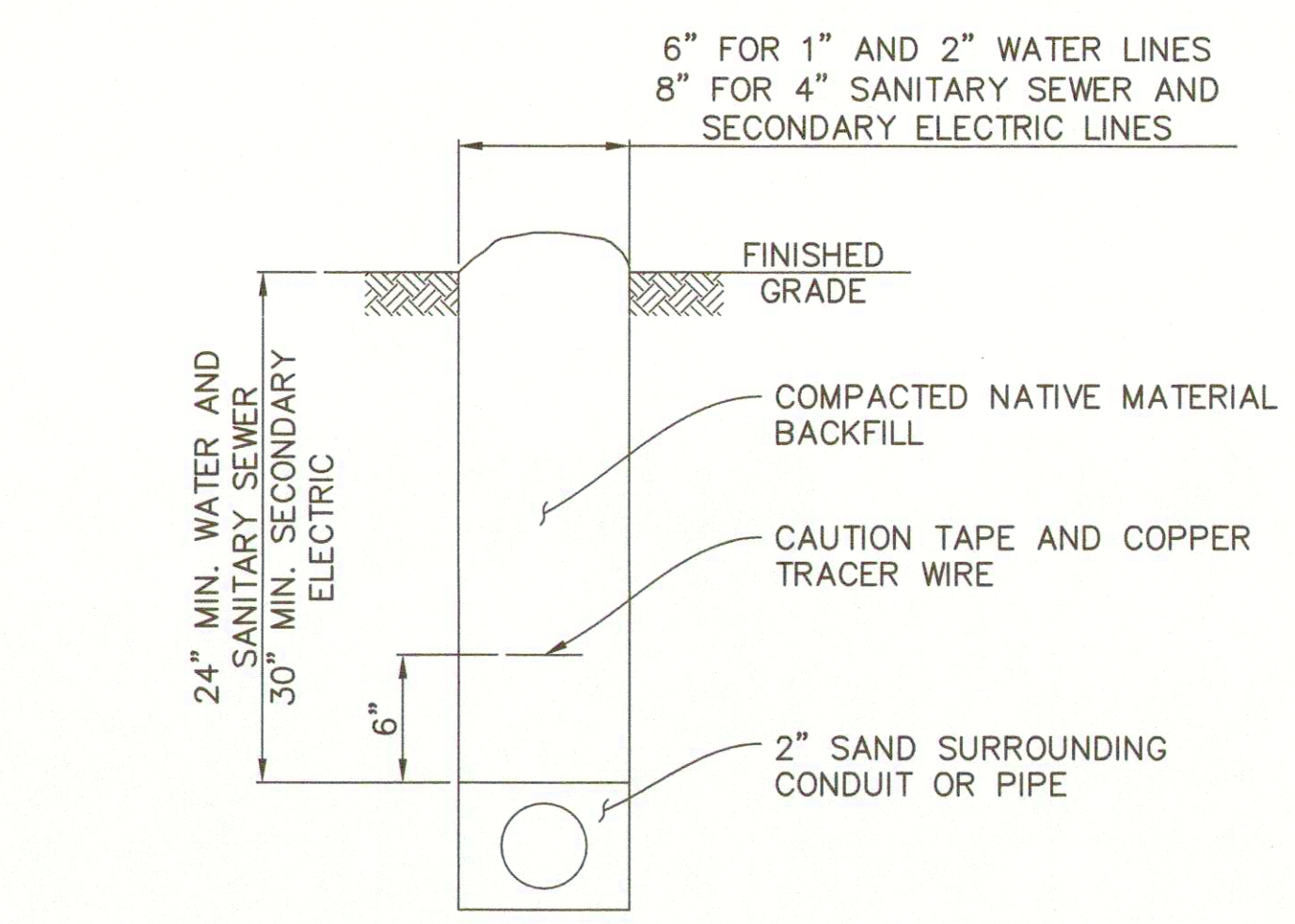
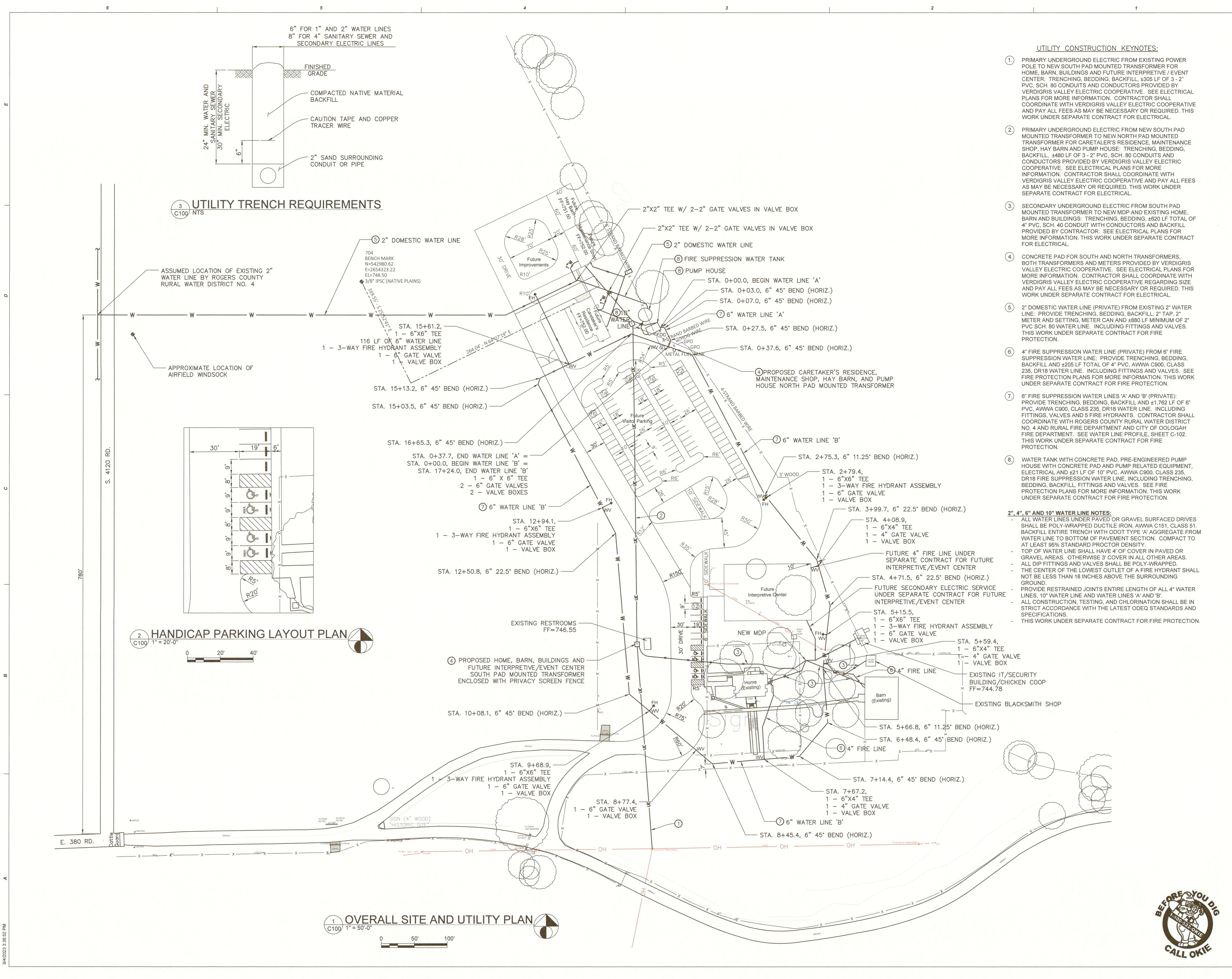


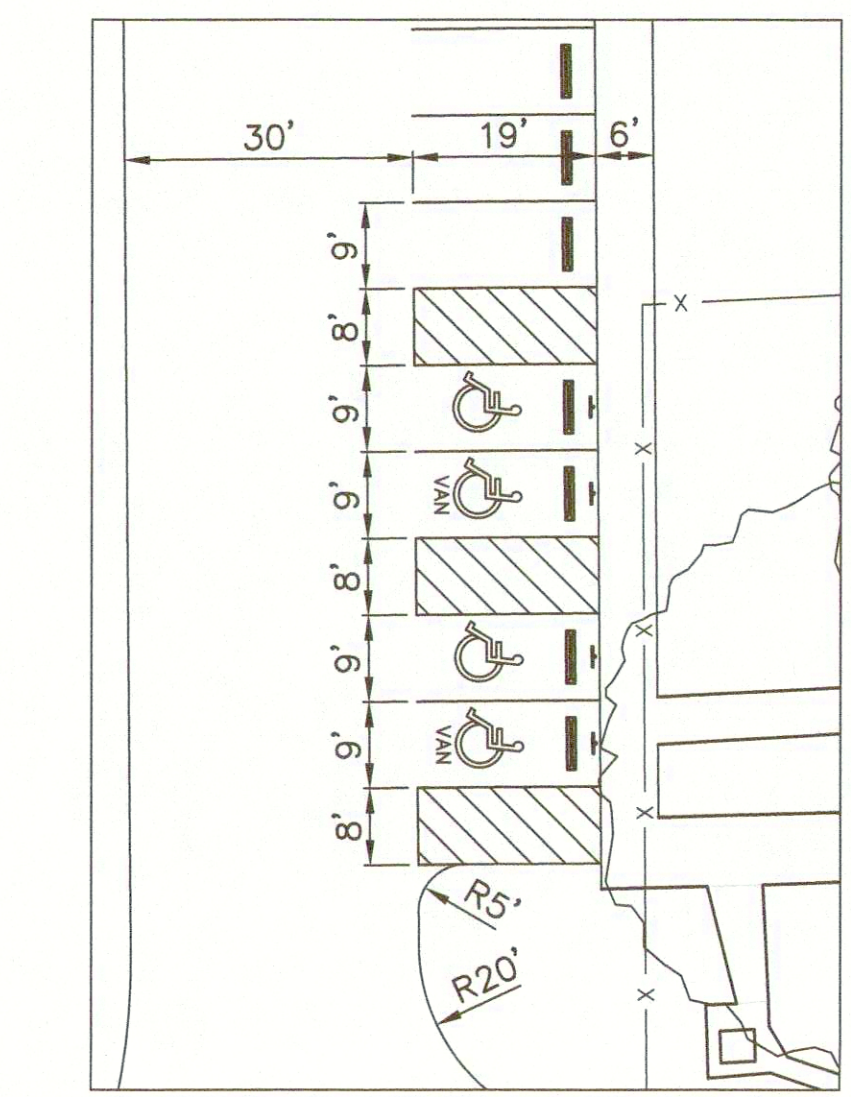


UTILITY TRENCH REQUIREMENTS

3 C100 NTS

ASSUMED LOCATION OF EXISTING 2" WATER LINE BY ROGERS COUNTY RURAL WATER DISTRICT NO. 4

APPROXIMATE LOCATION OF AIRFIELD WINDSOCK



HANDICAP PARKING LAYOUT PLAN

2 C100 1" = 20'-0"

0 20' 40'

OVERALL SITE AND UTILITY PLAN

1 C100 1" = 50'-0"

0 50' 100'

- UTILITY CONSTRUCTION KEYNOTES:
- 1 PRIMARY UNDERGROUND ELECTRIC FROM EXISTING POWER POLE TO NEW SOUTH PAD MOUNTED TRANSFORMER FOR HOME, BARN, BUILDINGS AND FUTURE INTERPRETIVE / EVENT CENTER. TRENCHING, BEDDING, BACKFILL, ±305 LF OF 3 - 2" PVC, SCH. 80 CONDUITS AND CONDUCTORS PROVIDED BY VERDIGRIS VALLEY ELECTRIC COOPERATIVE. SEE ELECTRICAL PLANS FOR MORE INFORMATION. CONTRACTOR SHALL COORDINATE WITH VERDIGRIS VALLEY ELECTRIC COOPERATIVE AND PAY ALL FEES AS MAY BE NECESSARY OR REQUIRED. THIS WORK UNDER SEPARATE CONTRACT FOR ELECTRICAL.
 - 2 PRIMARY UNDERGROUND ELECTRIC FROM NEW SOUTH PAD MOUNTED TRANSFORMER TO NEW NORTH PAD MOUNTED TRANSFORMER FOR CARETAKER'S RESIDENCE, MAINTENANCE SHOP, HAY BARN AND PUMP HOUSE. TRENCHING, BEDDING, BACKFILL, ±480 LF OF 3 - 2" PVC, SCH. 80 CONDUITS AND CONDUCTORS PROVIDED BY VERDIGRIS VALLEY ELECTRIC COOPERATIVE. SEE ELECTRICAL PLANS FOR MORE INFORMATION. CONTRACTOR SHALL COORDINATE WITH VERDIGRIS VALLEY ELECTRIC COOPERATIVE AND PAY ALL FEES AS MAY BE NECESSARY OR REQUIRED. THIS WORK UNDER SEPARATE CONTRACT FOR ELECTRICAL.
 - 3 SECONDARY UNDERGROUND ELECTRIC FROM SOUTH PAD MOUNTED TRANSFORMER TO NEW MDP AND EXISTING HOME, BARN AND BUILDINGS. TRENCHING, BEDDING, ±820 LF TOTAL OF 4" PVC, SCH. 40 CONDUIT WITH CONDUCTORS AND BACKFILL PROVIDED BY CONTRACTOR. SEE ELECTRICAL PLANS FOR MORE INFORMATION. THIS WORK UNDER SEPARATE CONTRACT FOR ELECTRICAL.
 - 4 CONCRETE PAD FOR SOUTH AND NORTH TRANSFORMERS. BOTH TRANSFORMERS AND METERS PROVIDED BY VERDIGRIS VALLEY ELECTRIC COOPERATIVE. SEE ELECTRICAL PLANS FOR MORE INFORMATION. CONTRACTOR SHALL COORDINATE WITH VERDIGRIS VALLEY ELECTRIC COOPERATIVE REGARDING SIZE AND PAY ALL FEES AS MAY BE NECESSARY OR REQUIRED. THIS WORK UNDER SEPARATE CONTRACT FOR ELECTRICAL.
 - 5 2" DOMESTIC WATER LINE (PRIVATE) FROM EXISTING 2" WATER LINE. PROVIDE TRENCHING, BEDDING, BACKFILL, 2" TAP, 2" METER AND SETTING, METER CAN AND ±880 LF MINIMUM OF 2" PVC SCH. 80 WATER LINE. INCLUDING FITTINGS AND VALVES. THIS WORK UNDER SEPARATE CONTRACT FOR FIRE PROTECTION.
 - 6 4" FIRE SUPPRESSION WATER LINE (PRIVATE) FROM 6" FIRE SUPPRESSION WATER LINE. PROVIDE TRENCHING, BEDDING, BACKFILL AND ±205 LF TOTAL OF 4" PVC, AWWA C900, CLASS 235, DR18 WATER LINE. INCLUDING FITTINGS AND VALVES. SEE FIRE PROTECTION PLANS FOR MORE INFORMATION. THIS WORK UNDER SEPARATE CONTRACT FOR FIRE PROTECTION.
 - 7 6" FIRE SUPPRESSION WATER LINES 'A' AND 'B' (PRIVATE): PROVIDE TRENCHING, BEDDING, BACKFILL AND ±1,762 LF OF 6" PVC, AWWA C900, CLASS 235, DR18 WATER LINE. INCLUDING FITTINGS, VALVES AND 5 FIRE HYDRANTS. CONTRACTOR SHALL COORDINATE WITH ROGERS COUNTY RURAL WATER DISTRICT NO. 4 AND RURAL FIRE DEPARTMENT AND CITY OF OLOGAH FIRE DEPARTMENT. SEE WATER LINE PROFILE, SHEET C-102. THIS WORK UNDER SEPARATE CONTRACT FOR FIRE PROTECTION.
 - 8 WATER TANK WITH CONCRETE PAD, PRE-ENGINEERED PUMP HOUSE WITH CONCRETE PAD AND PUMP RELATED EQUIPMENT, ELECTRICAL AND ±21 LF OF 10" PVC, AWWA C900, CLASS 235, DR18 FIRE SUPPRESSION WATER LINE, INCLUDING TRENCHING, BEDDING, BACKFILL, FITTINGS AND VALVES. SEE FIRE PROTECTION PLANS FOR MORE INFORMATION. THIS WORK UNDER SEPARATE CONTRACT FOR FIRE PROTECTION.

- 2", 4", 6" AND 10" WATER LINE NOTES:
- ALL WATER LINES UNDER PAVED OR GRAVEL SURFACED DRIVES SHALL BE POLY-WRAPPED DUCTILE IRON, AWWA C151, CLASS 51. BACKFILL ENTIRE TRENCH WITH ODOT TYPE 'A' AGGREGATE FROM WATER LINE TO BOTTOM OF PAVEMENT SECTION. COMPACT TO AT LEAST 95% STANDARD PROCTOR DENSITY.
 - TOP OF WATER LINE SHALL HAVE 4" OF COVER IN PAVED OR GRAVEL AREAS. OTHERWISE 3" COVER IN ALL OTHER AREAS.
 - ALL DIP FITTINGS AND VALVES SHALL BE POLY-WRAPPED.
 - THE CENTER OF THE LOWEST OUTLET OF A FIRE HYDRANT SHALL NOT BE LESS THAN 18 INCHES ABOVE THE SURROUNDING GROUND.
 - PROVIDE RESTRAINED JOINTS ENTIRE LENGTH OF ALL 4" WATER LINES, 10" WATER LINE AND WATER LINES 'A' AND 'B'.
 - ALL CONSTRUCTION, TESTING, AND CHLORINATION SHALL BE IN STRICT ACCORDANCE WITH THE LATEST ODEQ STANDARDS AND SPECIFICATIONS.
 - THIS WORK UNDER SEPARATE CONTRACT FOR FIRE PROTECTION.



EDMONDSON DESIGN GROUP, LLC.
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T: (918) 576-6700

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CLIENT
CHEROKEE NATION CULTURAL AND ECONOMIC DEVELOPMENT LLC.

PROJECT
WILL ROGERS BIRTHPLACE HOME RESTORATION

CONSULTANTS

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5200 South Yale Avenue, Suite 406
Tulsa, Oklahoma 74135
T: (918) 576-6700

STRUCTURAL ENGINEERING
Snowden Engineering Inc.
8128 South 63rd Street
Tulsa, Oklahoma 74133
T: (918) 252-4557

MECHANICAL, ELECTRICAL, PLUMBING ENGINEERING
Phillips + Gomez
15 West 6th Street, Suite 2510
Tulsa, Oklahoma 74119
T: (918) 554-0102

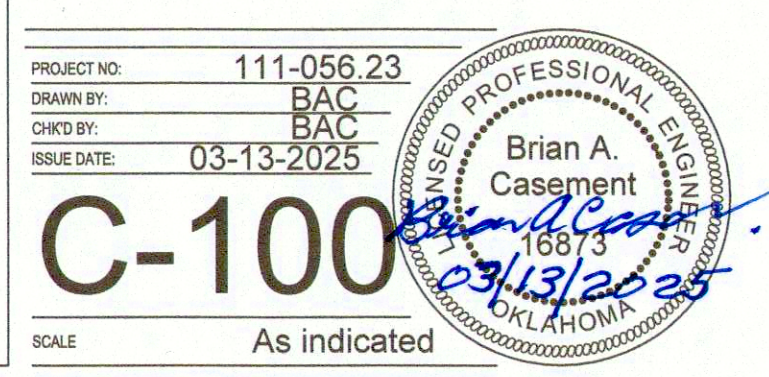
FIRE PROTECTION DESIGN
Western Fire Protection Inc.
8320 South 89th West Avenue
Tulsa, Oklahoma 74131
T: (918) 227-3893

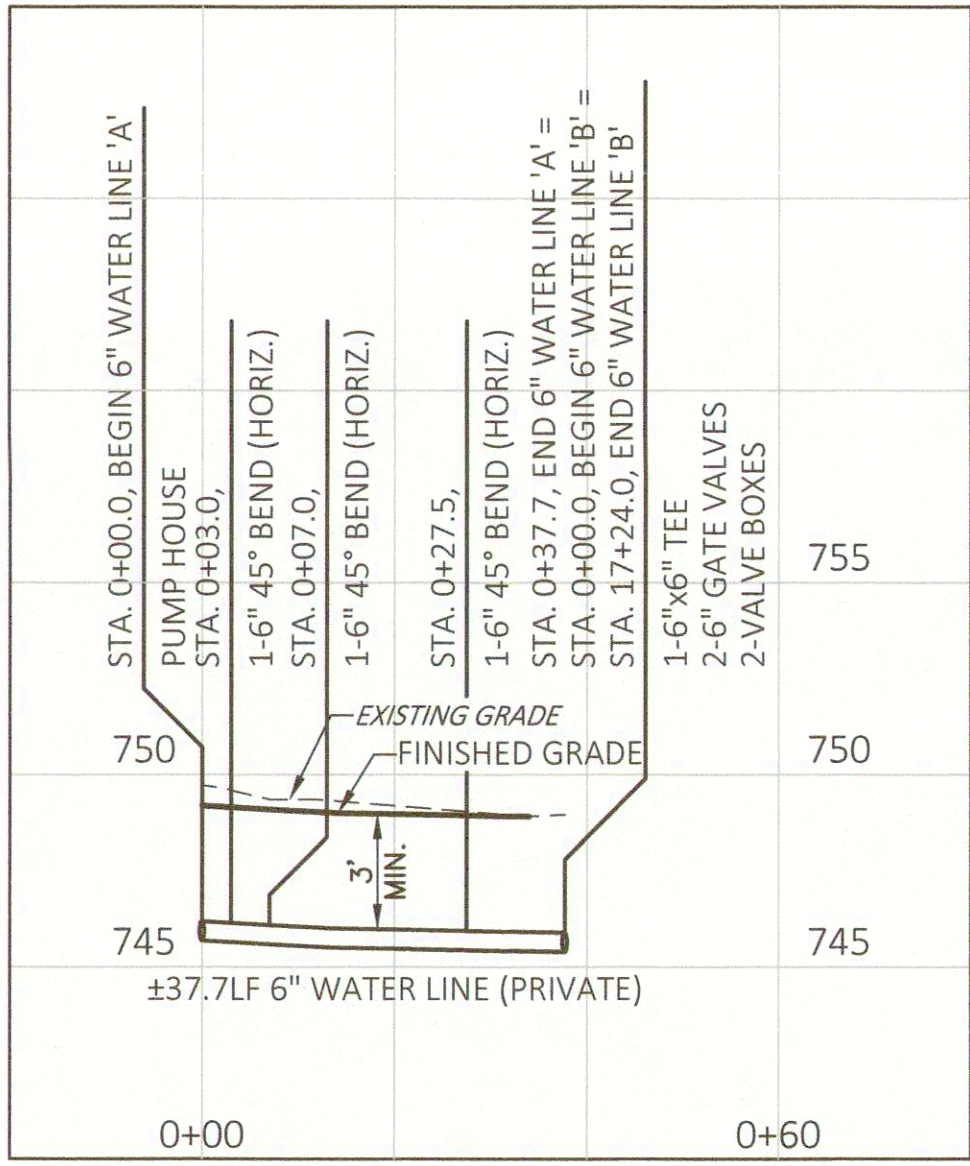
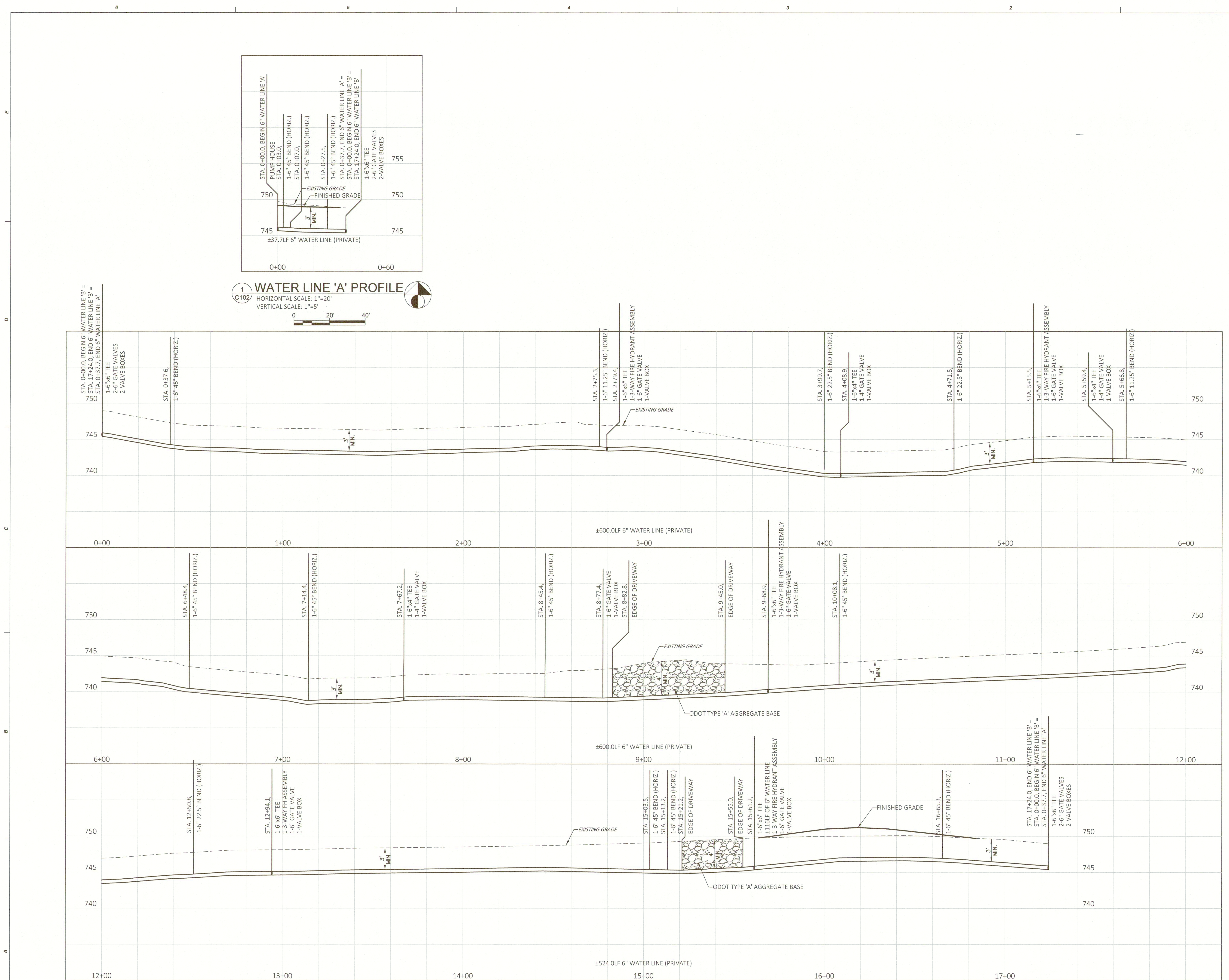
CIVIL ENGINEERING
Casement Engineering, LLC
P.O. Box 688
Owasso, OK 74055
T: (918) 740-7650

KEY PLAN

SHEET TITLE
OVERALL SITE AND UTILITY PLAN

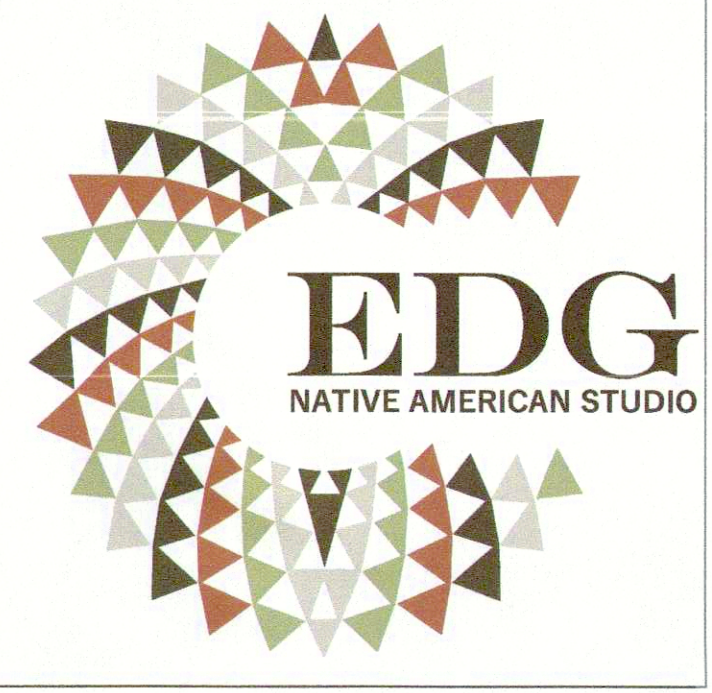
PROJECT NO. 111-056 23
DESIGNED BY: BAC
CHECKED BY: BAC
ISSUE DATE: 03-13-2025
SCALE As indicated





1
C102
WATER LINE 'A' PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

2
C102
WATER LINE 'B' PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



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Phillips + Gomez
15 West 6th Street, Suite 2510
Tulsa, Oklahoma 74119
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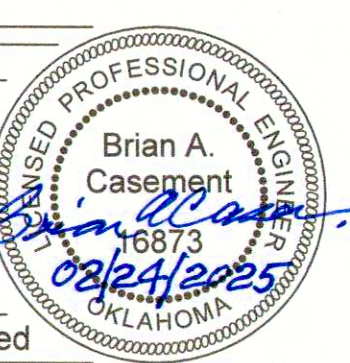
FIRE PROTECTION DESIGN
Western Fire Protection Inc.
8320 South 89th West Avenue
Tulsa, Oklahoma 74131
T: (918) 227-3593

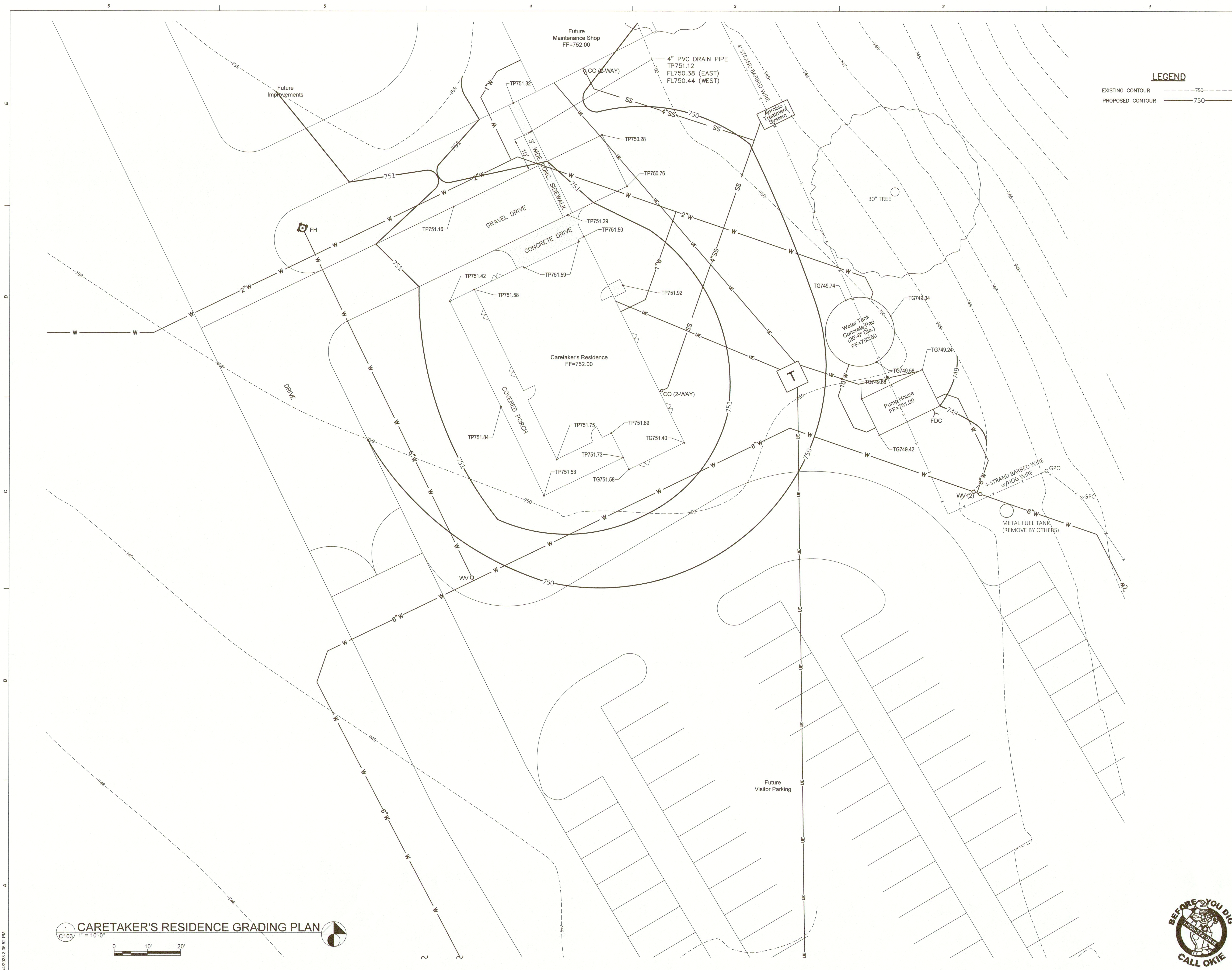
CIVIL ENGINEERING
Casement Engineering, LLC
P.O. Box 888
Owasso, OK 74055
T: (918) 740-7650

KEY PLAN

SHEET TITLE
WATER LINE PROFILES

PROJECT NO: 111-056 23
DRAWN BY: BAC
CHECKED BY: Brian A. Casement
ISSUE DATE: 02-24-2025
C-102
SCALE: As indicated





LEGEND
EXISTING CONTOUR ---750---
PROPOSED CONTOUR —750—



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FIRE PROTECTION DESIGN
Western Fire Protection Inc.
8320 South 89th West Avenue
Tulsa, Oklahoma 74131
T: (918) 227-3993

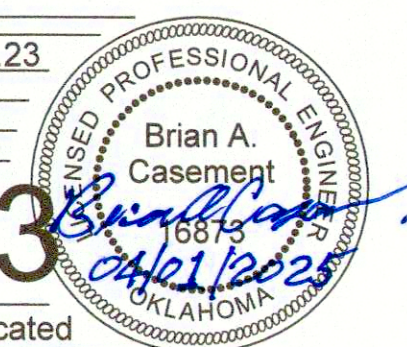
CIVIL ENGINEERING
Casement Engineering, LLC
P.O. Box 688
Owasso, OK 74055
T: (918) 740-7850

KEY PLAN

SHEET TITLE
CARETAKER'S RESIDENCE GRADING PLAN

PROJECT NO: 111-056-23
DRAWN BY: BAC
CHECKED BY: BAC
ISSUE DATE: 03-13-2025

SCALE
As indicated



[illegible]

PRELIMINARY DESIGN NOT APPROVED FOR CONSTRUCTION

GROUNDING PLATE
 2" x 4" x 1/4" GALVANIZED STEEL
 CORROSION LOSS FOR
 CORROSION PROTECTION
 (5) PLACES

1" TANK SEISMAL BEAM

24" ROUNDMANWAY

315°

20" MUSHROOM VENT

270°

4" NOZZLE

230°

225°

17" OVERFLOW

(1) 2" HALF THREADED COUPLERS

17" INLET PIPING

180°

24" SQUARE ACCESS HATCH

EXTERIOR LADDER

135°

24" ROUNDMANWAY

90°

LIQUID LEVEL INDICATOR

EXTERIOR LADDER

FULL PERIMETER GUARDRAIL

0°

10" SUCTION OUTLET
 IN AST STORAGE

(2) 2" HALF THREADED COUPLERS

45°

36°

PLAN VIEW

4	DATE:	BY:	REVISION:
5	DATE:	BY:	REVISION:

GEO-SYSTEMS USA

GENUINE EXCELLENCE... INFINITE POSSIBILITIES

The following data and information have been prepared and are to be used only as a guide. The user assumes all responsibility for the use of this information. The user assumes all responsibility for the use of this information.

UNLESS OTHERWISE SPECIFIED TO OTHERWISE	REVISION NUMBER:	1
FRACTIONAL 1/8"	REVISION FOR:	REVISION NUMBER:
ONE PLACE DECIMAL 0.000	REVISION FOR:	REVISION NUMBER:
TWO PLACE DECIMAL 0.00	REVISION FOR:	REVISION NUMBER:
THREE PLACE DECIMAL 0.000	REVISION FOR:	REVISION NUMBER:

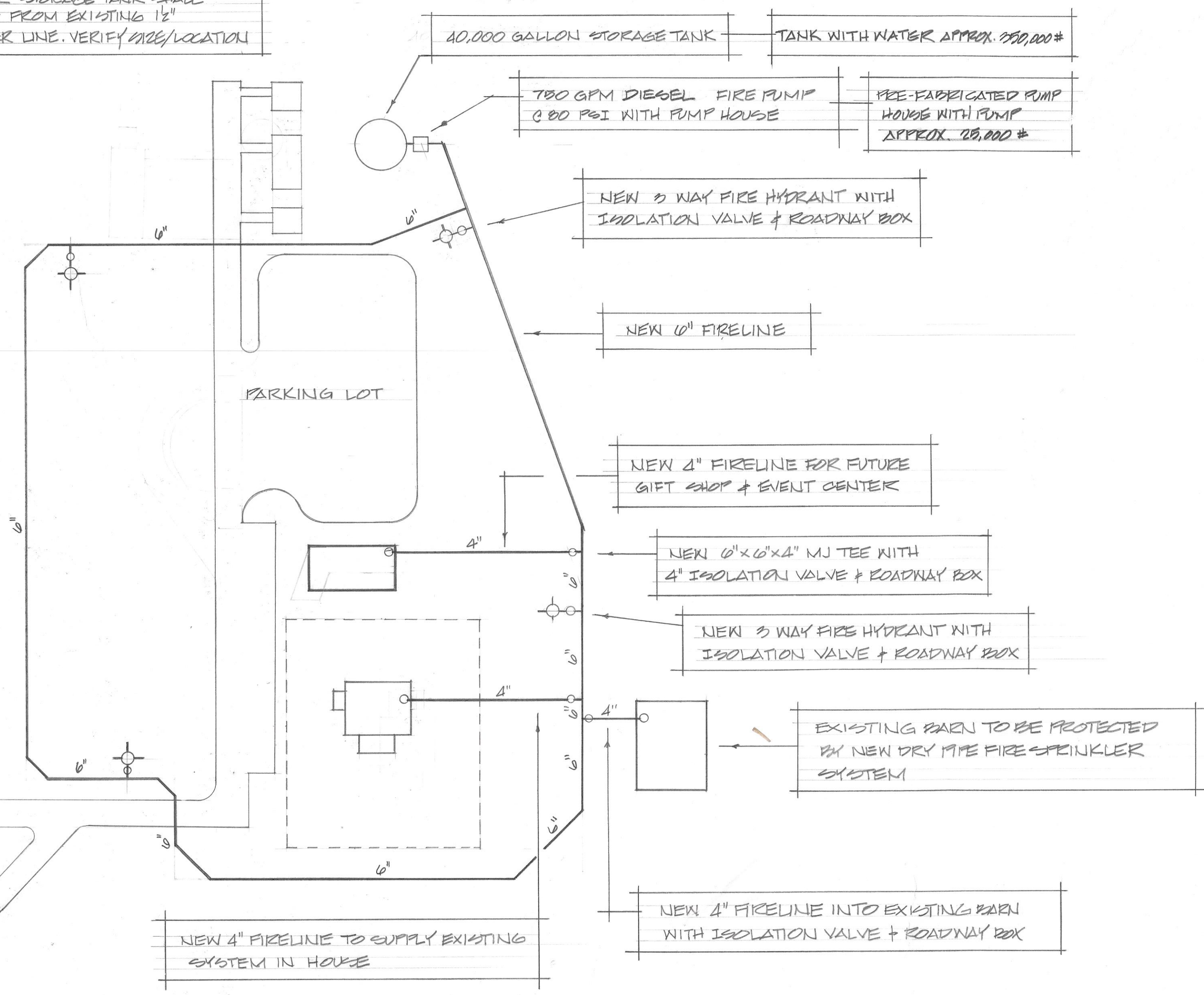
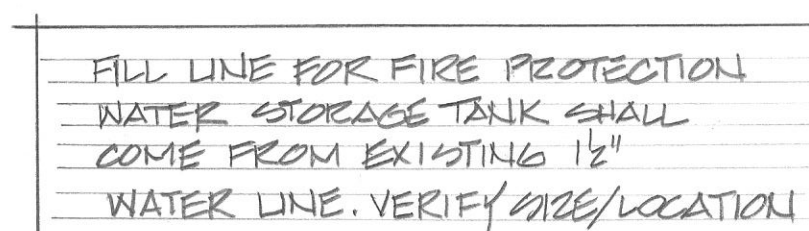
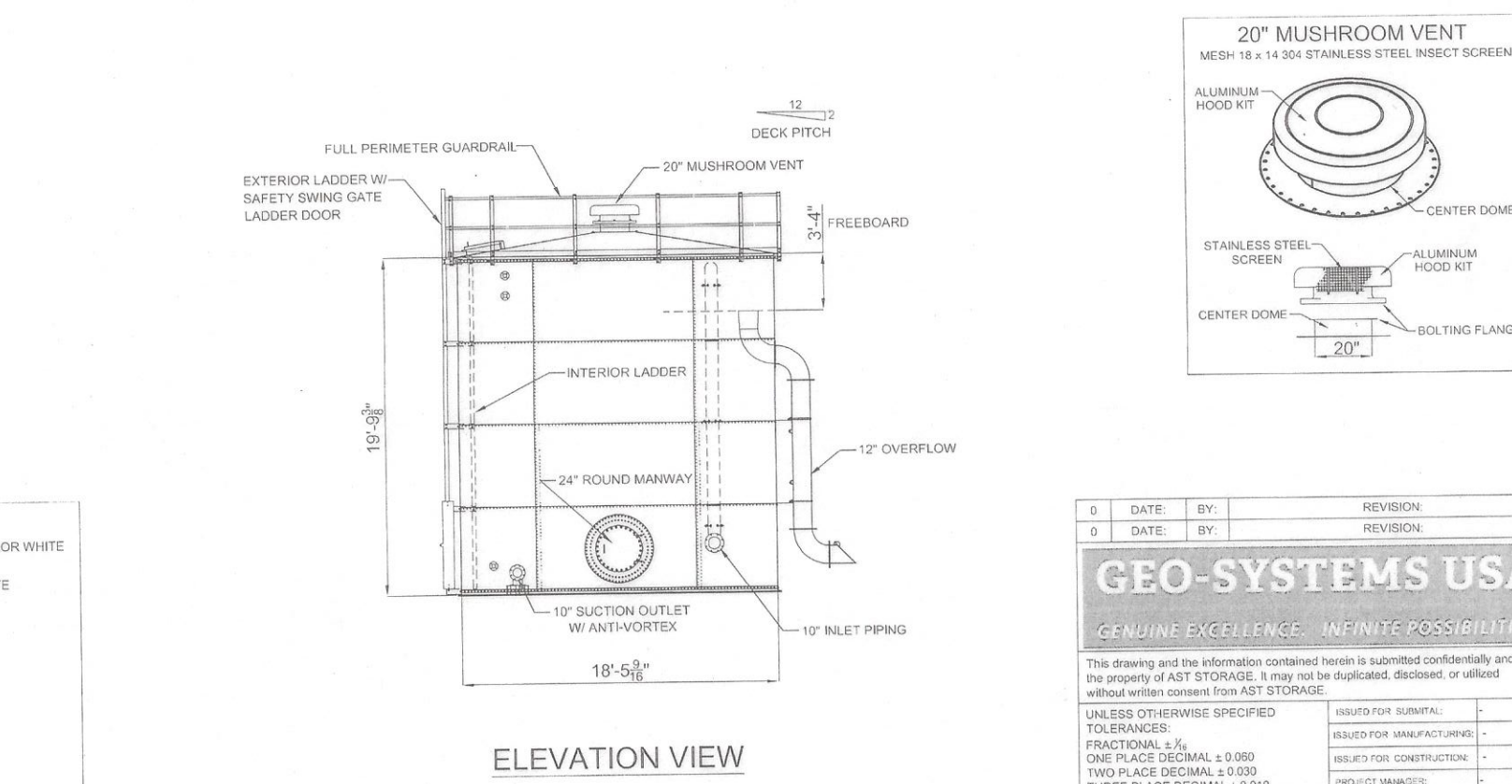
DATE: 04/04/2014
 DRAWN BY: J. B. 113

PRE-SUBMITTAL DRAWING

PLAN VIEW

CUSTOMER:	PROJECT:	SCALE:
LOCATION:	SHEET: 1 OF 1	SCALE: 1/4" = 1'-0"
DRAWN BY:	CHECKED BY:	DATE: 04/04/2014
APPROVED BY:	REVISION:	DATE: 04/04/2014

PRE-SUBMITTAL 02 0

[illegible][illegible]

FIRE PROTECTION SITE PLAN
SCALE 1" = 60'-0"

ORIGINAL FARMHOUSE.

1. The Original Farm House is currently equipped with an incomplete Fire Sprinkler System. The existing Riser will need to be disassembled and re-built as a Dry Pipe System Riser including new one piece Stainless Steel Riser Assembly stubbed to the outside to receive proposed new underground fire line. Also a New Dry Pipe Riser Assembly will need to be installed complete with Air Maintenance Device, proper trim, pressure switch, air compressor, etc. to constitute a complete Dry Pipe Riser set up as Per NFPA #13.
2. The existing system currently has upright sprinklers in the attic, online standard pendants (on the first floor) and dry pendent sprinklers throughout the first and second floors. ALL sprinklers must be replaced with New heads.
3. All piping must be checked for proper slope as required for a dry system.
4. Install New Monitor System for this System.

1. This Structure shall be protected by a New Dry Pipe Fire Sprinkler System including a one piece stainless steel riser assembly stubbed out to receive proposed new underground fire line. System shall be designed and installed in accordance with NFPA #13.
2. Install New Monitor System for this System.

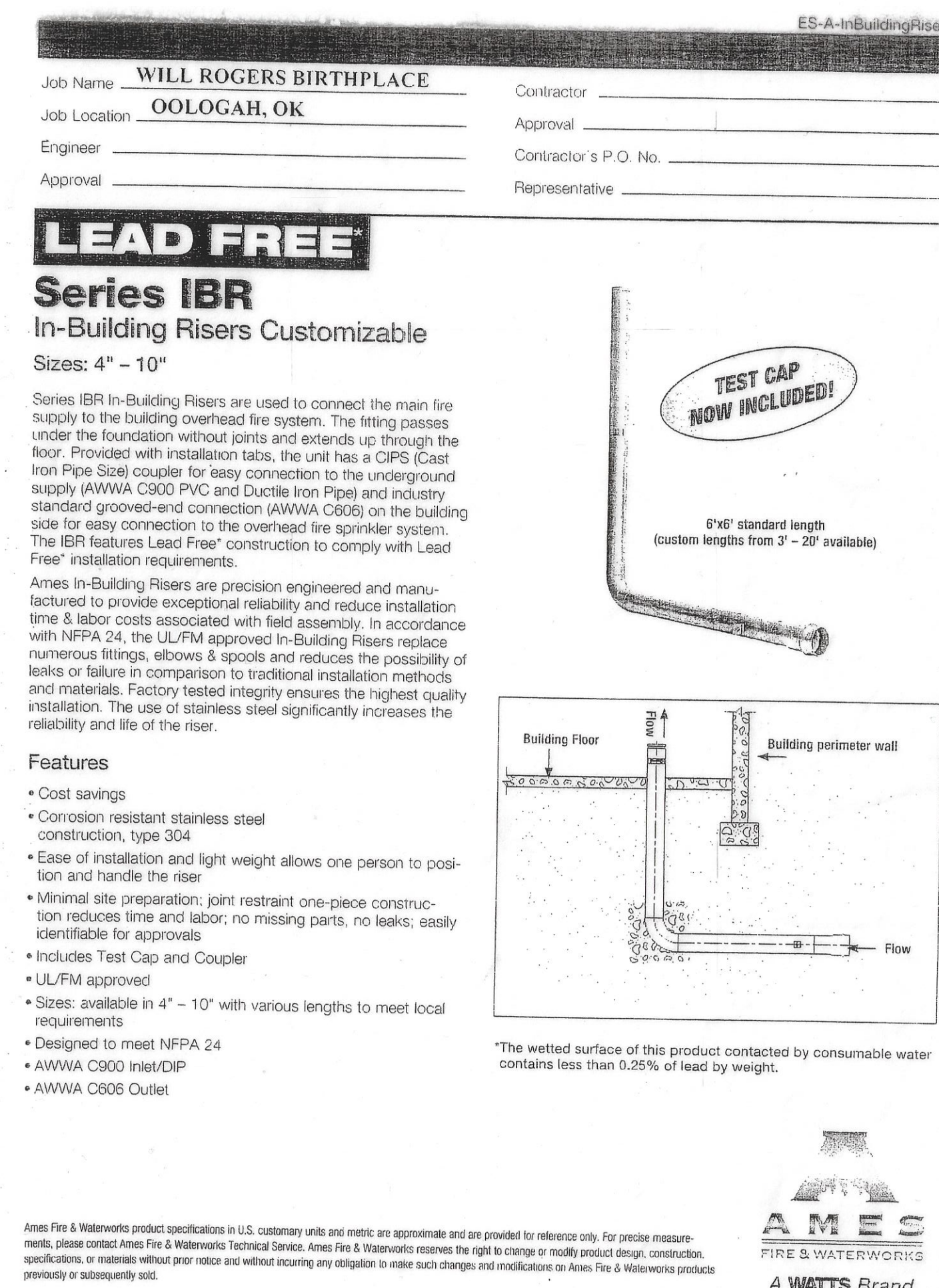
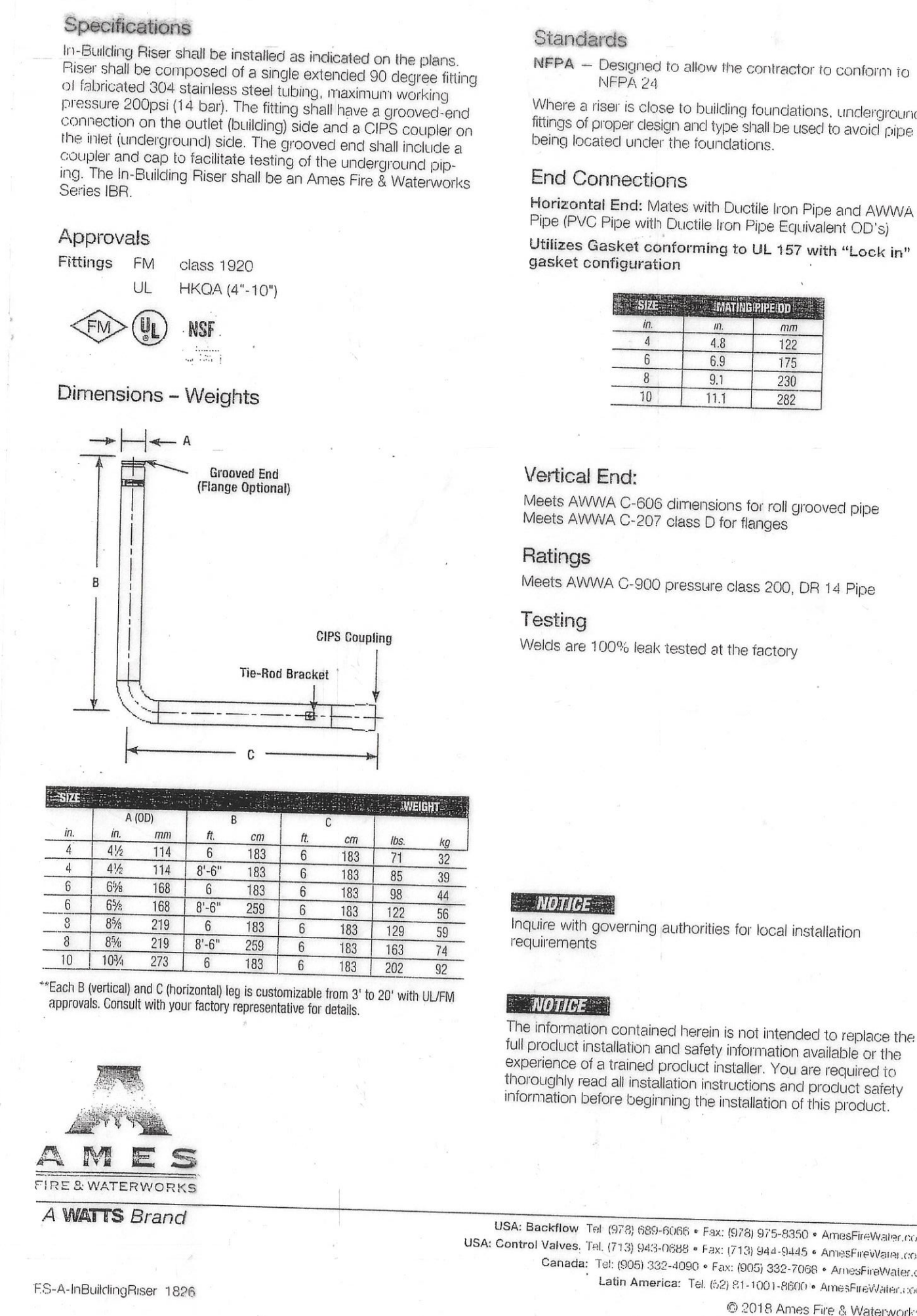
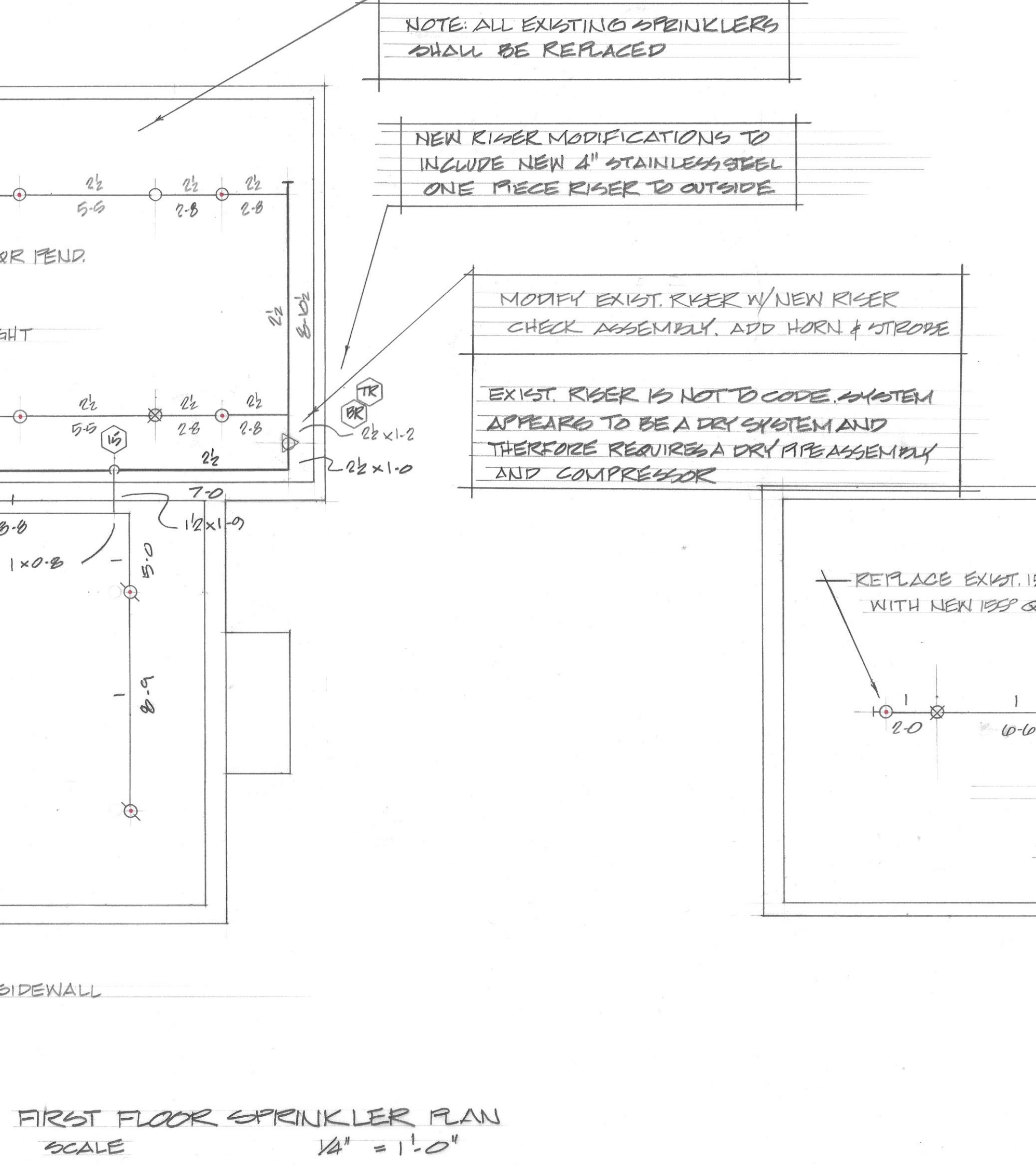
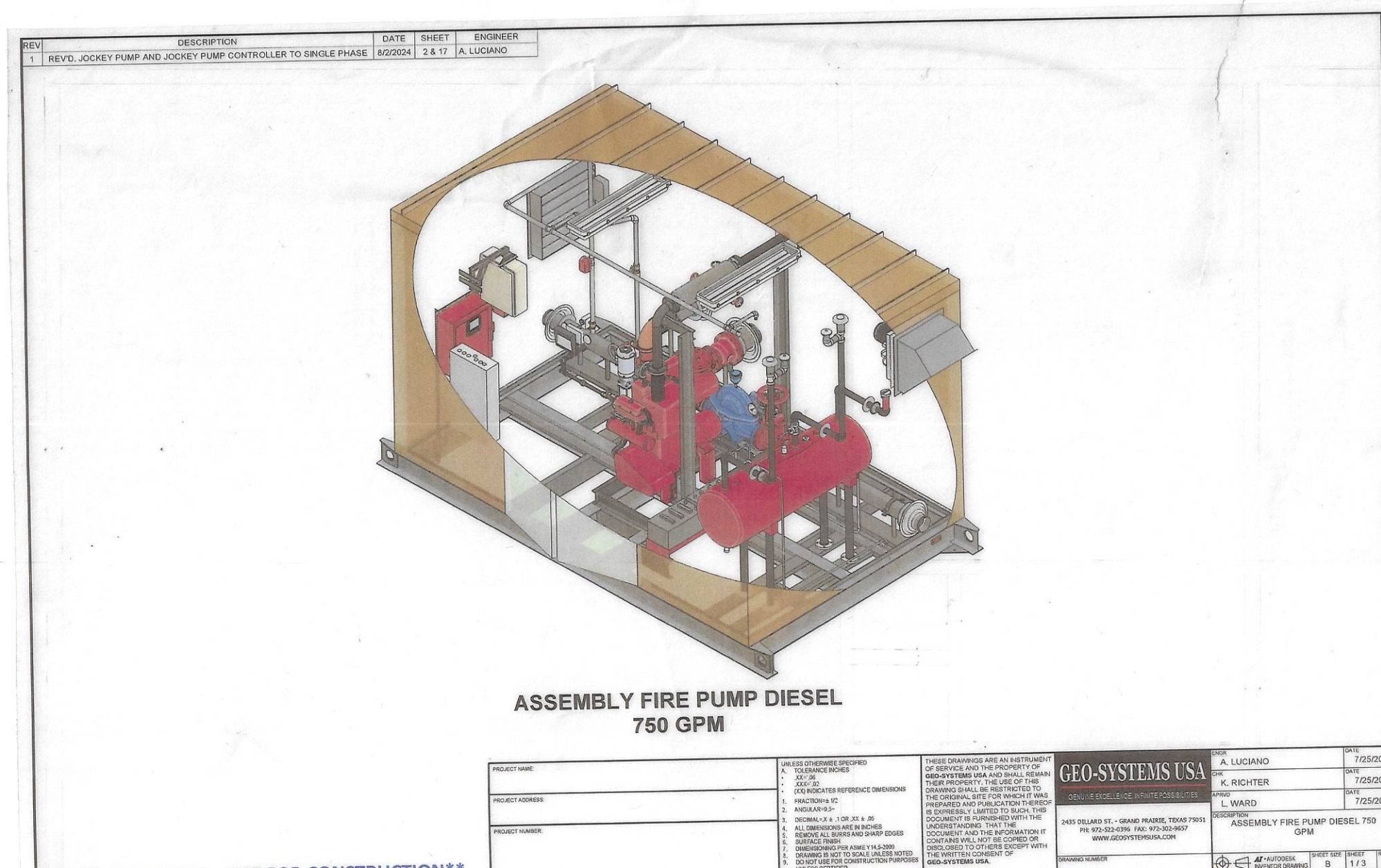
1. Furnish and install a New Skid Mounted Fire Pump in Pre-Fabricated Fire Pump House as shown on FP-Drawings. The pre-fabricated Fire Pump House and Diesel Fire Pump Skid are as specified and as supplied by Geo-Systems located in Ft. Worth, TX. The Contact person at Geo-Systems is Mr. Kurt Richter.
2. Successful FP Contractor shall also be responsible for providing an approved Foundation/Slab for this Structure including an approved Engineered Plan for this Foundation/slab.

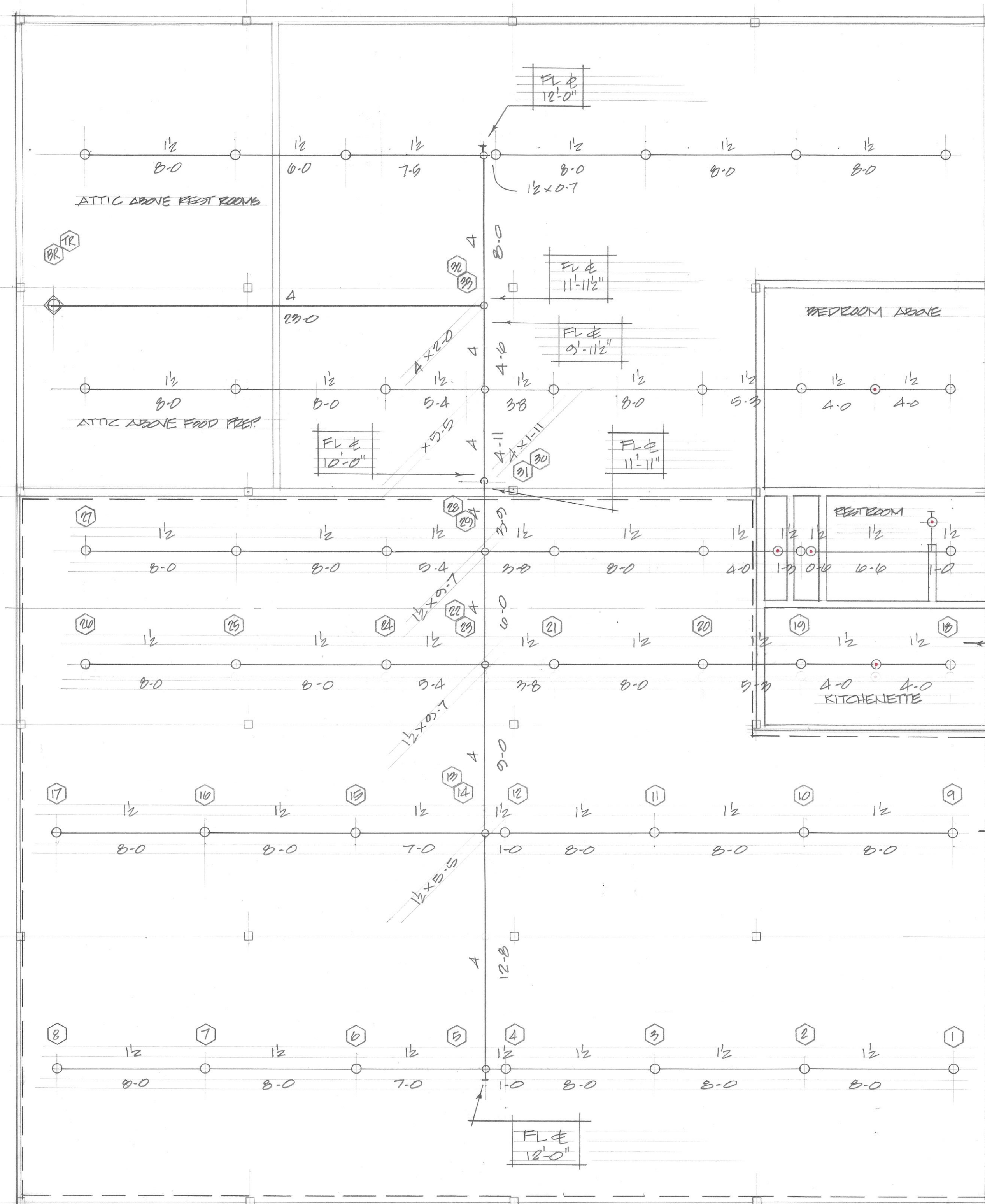
1. Furnish and install a New 40,000 Gallon water storage tank as shown on FP-Drawings including heaters, insulation, altitude valve and all other required pipe, fittings, valves and equipment to constitute a Complete Installation in accordance with Plans and NFPA.
2. Also provide an approved Foundation/slab for this structure including approved Engineered Plan for this foundation.

ANY ELECTRICAL WORK REQUIRED FOR FIRE PUMP CONTROLLERS, HEATERS, ETC. SHALL BE BY OTHERS.

INTERCONNECTION FROM PROPOSED NEW 6 INCH UNDERGROUND
FIRE LOOP TO FIRE PUMP AND INTERCONNECTION FROM WATER
STORAGE TANK TO FIRE PUMP SHALL BE INCLUDED IN FP
CONTRACTORS SCOPE OF WORK.

[illegible]





NODES/HEADS #18 & #19 NOT USED IN HYDRAULIC CALCULATIONS

REMOTE AREA #1 DRY SYSTEM
20/1050 + 250 GPM OUTSIDE HOSE

LOWER LEVEL BARN
SCALE $1/4" = 1'-0"$

UPPER LEVEL BAR
SCALE $1/4" = 1'-0"$



HYDRAULIC DESIGN DATA											
		CALCULATION # 1		CALCULATION # 2				CALCULATION # 3			
Hazard Class:											
Hazard Class:											
System Type											
Density		GPM		GPM				GPM			
Calculated Area		1		1				1			
Area per Sprinkler		1		1				1			
Demand		GPM		GPM				GPM			
FLOWS TEST INFO:		GPM		Psi		Date:		Time:		Test By:	
Firepump Location:		GPM		Psi		Start:		Psi		Flow:	
Office Size		No. of Outlet		Pilot Press		Psi		Residual		Psi	
1										UIG Pipe	
2										②	
3										SAFETY: PSI	

CONTRACTOR: WESTERN FIRE PROTECTION

ADDRESS: 8320 South 89th West Ave. Tulsa, OK

REVISION

DATE	DESCRIPTION

IMPORTANT

TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI-FREEZE SYSTEM.

[illegible][illegible]

OKLAHOMA LICENSE #0311



WILL ROGERS HISTORICAL BIRTHPLACE - BARN AREA
9501 EAST 380 ROAD COLOGAH, OKLAHOMA

WESTERN
Fire Protection, Inc.

8320 S. 89th W. Ave.
PHONE (918) 227-3893 FAX (918) 227-7234

NORTH 

DESIGNER E ROBERTS

SCALE $\frac{1}{4}'' = 1'-0''$

CHECK BY _____

FILE NUMBER _____

DATE: 04-23-24

DRAWING NO. E84