

PROJECT: Water Tower Corrosion Control

PROJECT NO: 623-15-105

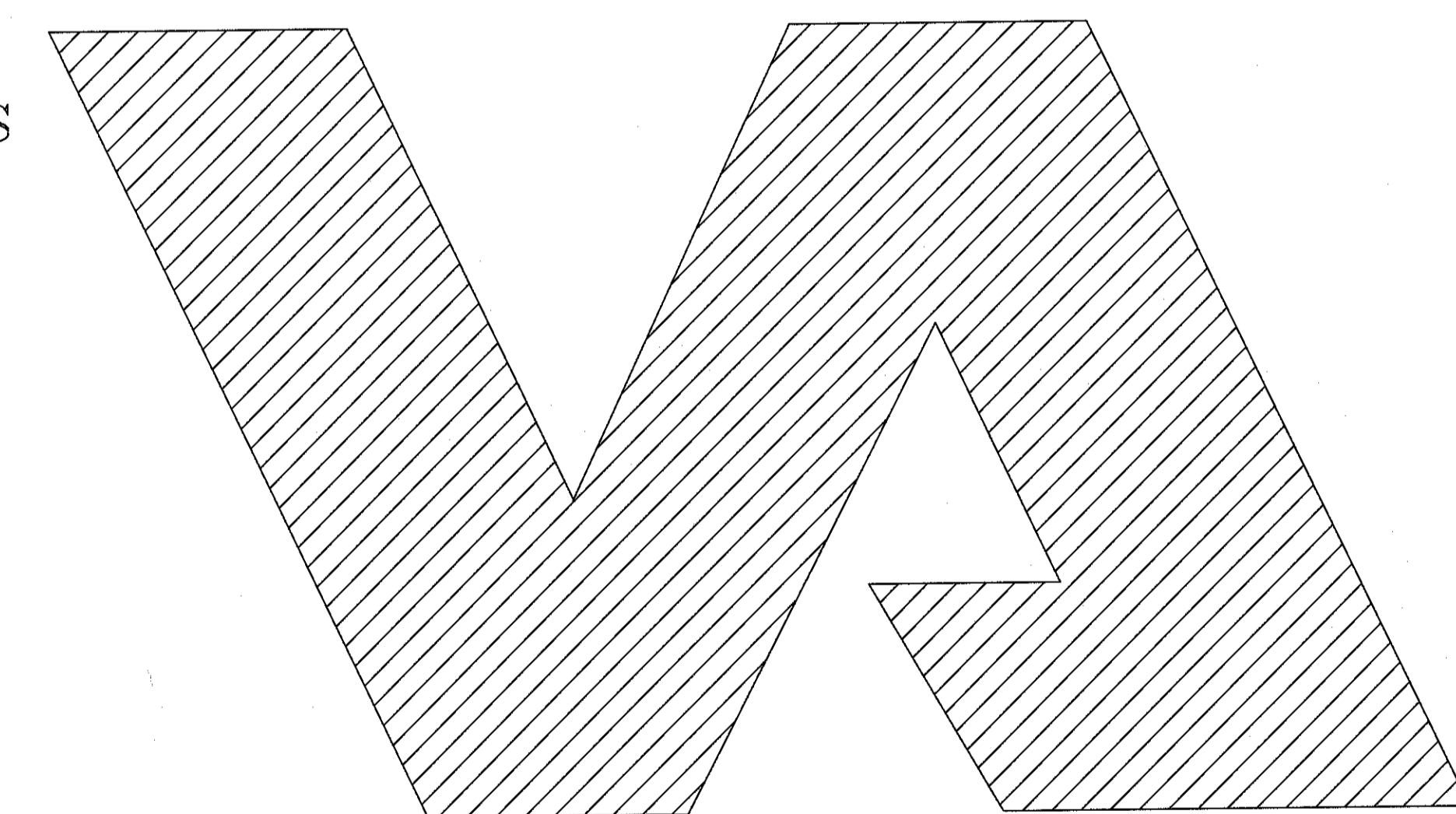
Jack C. Montgomery VA Medical Center  
Muskogee, Oklahoma




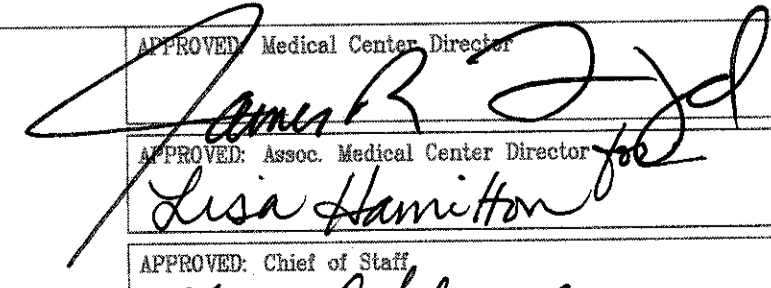
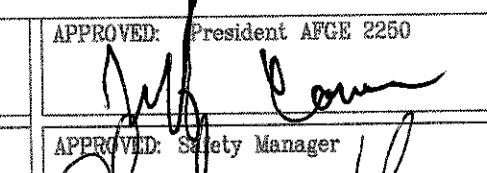
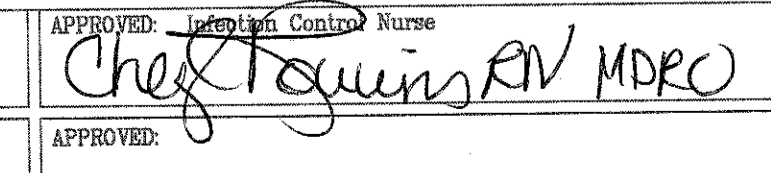
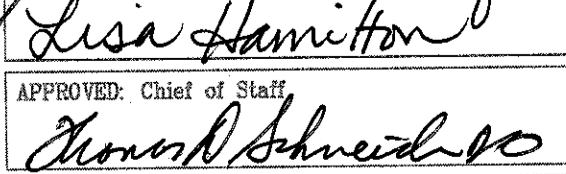
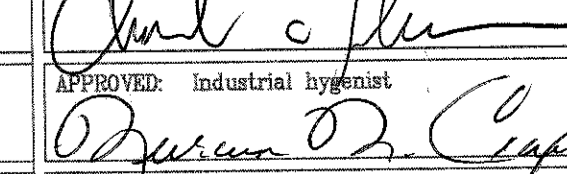
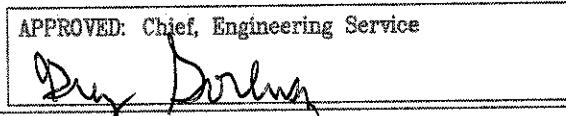
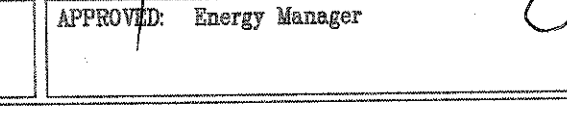
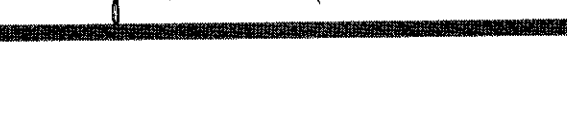
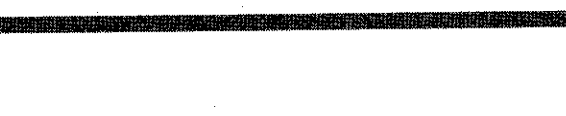
#### INDEX OF DRAWINGS

- TS-1 Title Sheet
- C-1 Overall Site Plan
- C-2 High Pressure Tie-In and Details
- C-3 Water Tower

DEPARTMENT OF



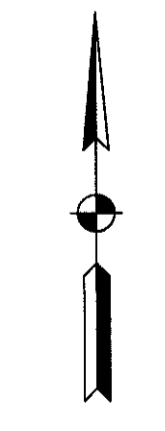
VETERANS AFFAIRS


REVISIONS BY	DATE	 Dept. of Veterans Affairs Medical Center 1011 Honor Heights Drive Muskogee, OK. 74401	 APPROVED: Medical Center Director			 APPROVED: President AFGE 2250			 APPROVED: [illegible] Control Nurse			DRAWING TITLE TITLE SHEET		PROJECT TITLE WATER TOWER CORROSION CONTROL		DATE 12 DEC 2014		DEPARTMENT OF VETERANS AFFAIRS
			 APPROVED: Assoc. Medical Center Director			 APPROVED: Safety Manager						PROJECT NO. 623-15-105		CONTRACT NO.		SCALE AS NOTED		
		 APPROVED: Chief of Staff			 APPROVED: Industrial Hygienist						DESIGNED BY:		DRAWN BY:		CHECKED BY:		DRAWING NO. TS-1	
		 APPROVED: Chief, Engineering Service			 APPROVED: Energy Manager						BUILDING NO. SITE		AUTOCAD FILE NAME		LOCATION V.A.M.C MUSKOGEE, OK.			

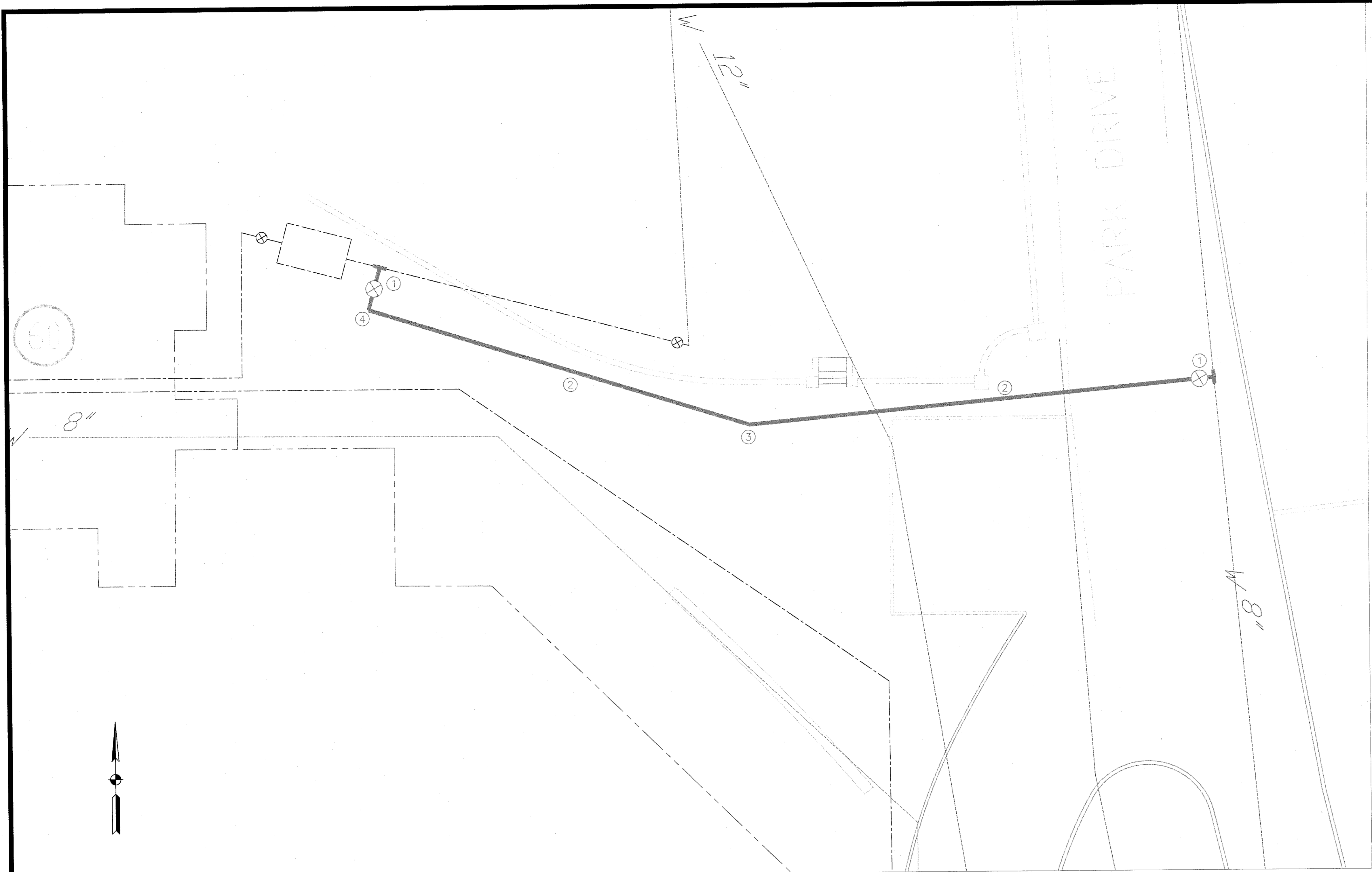


WORK AREA 1:  
WORK IN THIS AREA IS FOUND ON DRAWING SHEET C-2. IT CONSISTS OF CONNECTING THE MAIN HOSPITAL WATER SERVICE LINE TO CITY HIGH PRESSURE LINE IN ORDER TO PROVIDE ADEQUATE DOMESTIC WATER SERVICE WHILE WATER TOWER IS OUT OF SERVICE FOR INTERIOR REFINISH.

WORK AREA 2:  
WORK IN THIS AREA IS FOUND ON DRAWING SHEET C-3. IT CONSISTS OF REFINISHING THE WATER TOWER OUTSIDE AND INTERIOR ACCORDING TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.



REVISIONS		DATE		 Dept. of Veterans Affairs Medical Center 1011 Honor Heights Drive Muskogee, OK. 74401		APPROVED: Medical Center Director		APPROVED: President APGE 2250		APPROVED: Infection Control Nurse		DRAWING TITLE OVERALL SITE PLAN		PROJECT TITLE WATER TOWER CORROSION CONTROL		DATE 12 DEC 2014		DEPARTMENT OF VETERANS AFFAIRS					
						APPROVED: Assoc. Medical Center Director		APPROVED: Safety Manager		APPROVED:		PROJECT NO. 623-15-105		CONTRACT NO.		DESIGNED BY: B PADGET				CHECKED BY:		DRAWING NO. C-1	
						APPROVED: Chief of Staff		APPROVED: Industrial Hygienist		APPROVED:		BUILDING NO. SITE		AUTOCAD FILE NAME:		LOCATION V.A.M.C MUSKOGEE, OK.				DWG. 01 OF 03			
						APPROVED: Chief, Engineering Service		APPROVED: Energy Manager		APPROVED:													



GENERAL CONSTRUCTION NOTES

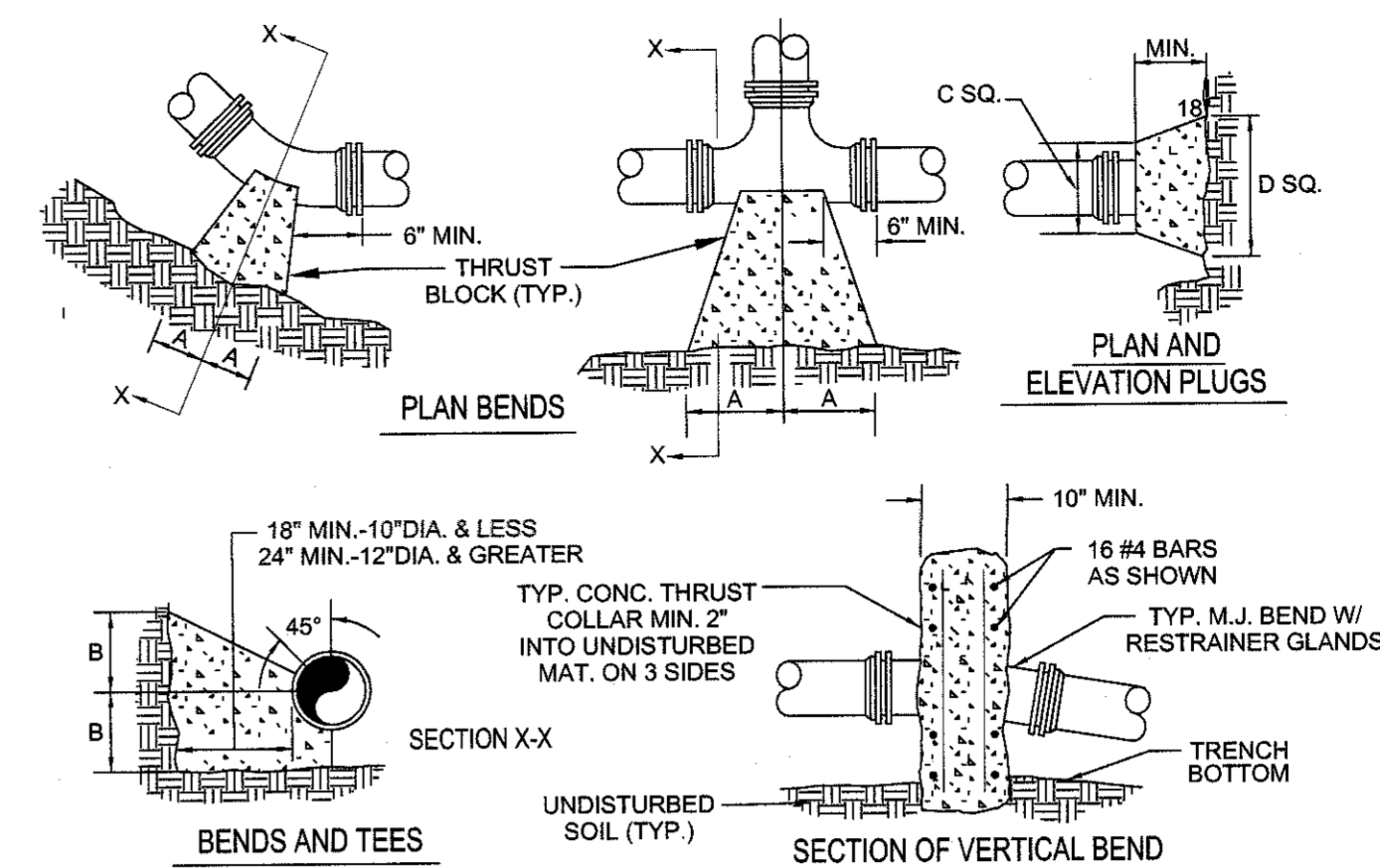
- A. CONTRACTOR SHALL COORDINATE ACTIVITY WITH CITY OF MUSKOGEE WATER DEPARTMENT.
- B. CONTRACTOR SHALL MINIMIZE TRAFFIC INTERRUPTION DURING WORK AT CITY PRESSURE LINE. ONLY ONE TRAFFIC LANE SHALL BE CLOSED AT ANY TIME.
- C. THERE IS SIGNIFICANT UTILITY CONGESTION IN WORK AREA, BOTH ACTIVE AND ABANDONED INCLUDING ELECTRICAL, COMMUNICATION, SANITARY SEWER, STORM DRAINAGE AND IRRIGATION AND DOMESTIC WATER. EXCAVATION SHALL BE DONE WITH EXTREME CARE.
- D. DEPTH OF BURY FOR WATER LINE SHALL BE MINIMUM 36" TO TOP OF PIPE.

KEYED CONSTRUCTION NOTES:

1. 6" OUTLET TAPPING SADDLE, 6" SHUTOFF VALVE IN VALVE BOX.
2. 6" DIAMETER BELL AND SPIGOT, C900 PVC PIPING.
3. 22.5 DEGREE TURN WITH THRUST BLOCKING.
4. 90 DEGREE TURN WITH THRUST BLOCKING.

ENLARGED PLAN FOR NEW PIPING

SCALE: 1" = 10'



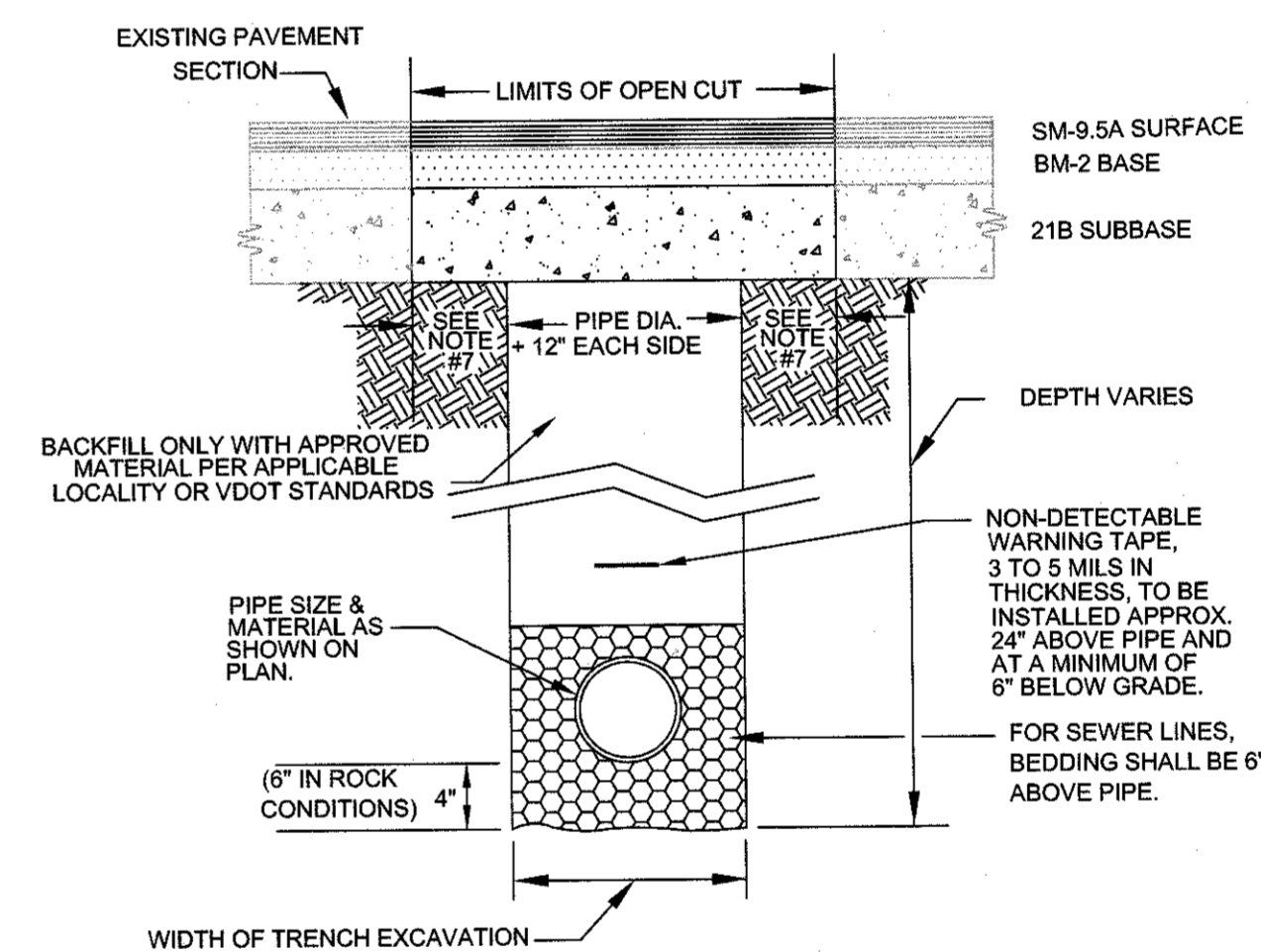
- NOTES:
- FOR VERT. BEND DOWN IN EXCESS OF 11 1/4" BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER.
  - FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND.
  - GLANDS & BOLTS SHALL BE PROTECTED FROM CONC. BY PLASTIC SHEETING WHEN POURING THRUST BLOCKS.
  - ALL THRUST BLOCK & SUPPORT CONC. SHALL BE 3000 PSI READY MIX CONC.
  - THRUST BLOCKS WITH 18" DIMENSION GREATER THAN 30" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4" OF COVER.
  - IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINTS MUST BE USED. IF EQUAL OR GREATER THAN 100 PSI WORKING PRESSURE, BOTH BLOCK AND RESTRAINT JOINTS ARE REQUIRED.

PRESSURE = 200 psi  
BEARING = 2000 pcf  
FACTOR OF SAFETY = 1.5

PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
4"	8"	12"	8"	8"	8"	8"	8"	8"	11"	10"	9"	10"
6"	18"	12"	8"	10"	8"	8"	8"	8"	11"	10"	12"	18"
8"	18"	13"	10"	10"	8"	8"	8"	8"	11"	12"	12"	24"
10"	20"	18"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
16"	26"	20"	16"	18"	11"	13"	11"	13"	18"	20"	20"	36"
24"	42"	42"	22"	22"	22"	22"	16"	22"	22"	42"	42"	42"
30"	185"	42"	100"	42"	52"	42"	40"	30"	185"	42"	185"	42"

THRUST BLOCKING DETAIL

SCALE: NONE



NOTES:

- BEDDING, HAUNCHING AND INTIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- ALL PVC PIPE SHALL BE BEDDED IN ACCORDANCE WITH ODOT REQUIREMENTS
- ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE AS SPECIFIED BY ODOT OR APPLICABLE LOCALITY.
- PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM ODOT AND/OR APPLICABLE LOCALITY.
- IN AREAS SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 698.
- ALL SEWER LINE PIPE SHALL BE BEDDED IN COMPACTED GRANULAR MATERIAL. BEDDING REQUIREMENTS FOR DUCTILE SEWER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.
- ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED EXCAVATIONS: HAZARD RECOGNITION IN TRENCHING AND SHORING.

BEDDING AND BACKFILL DETAIL

SCALE: NONE

REVISIONS:	DATE

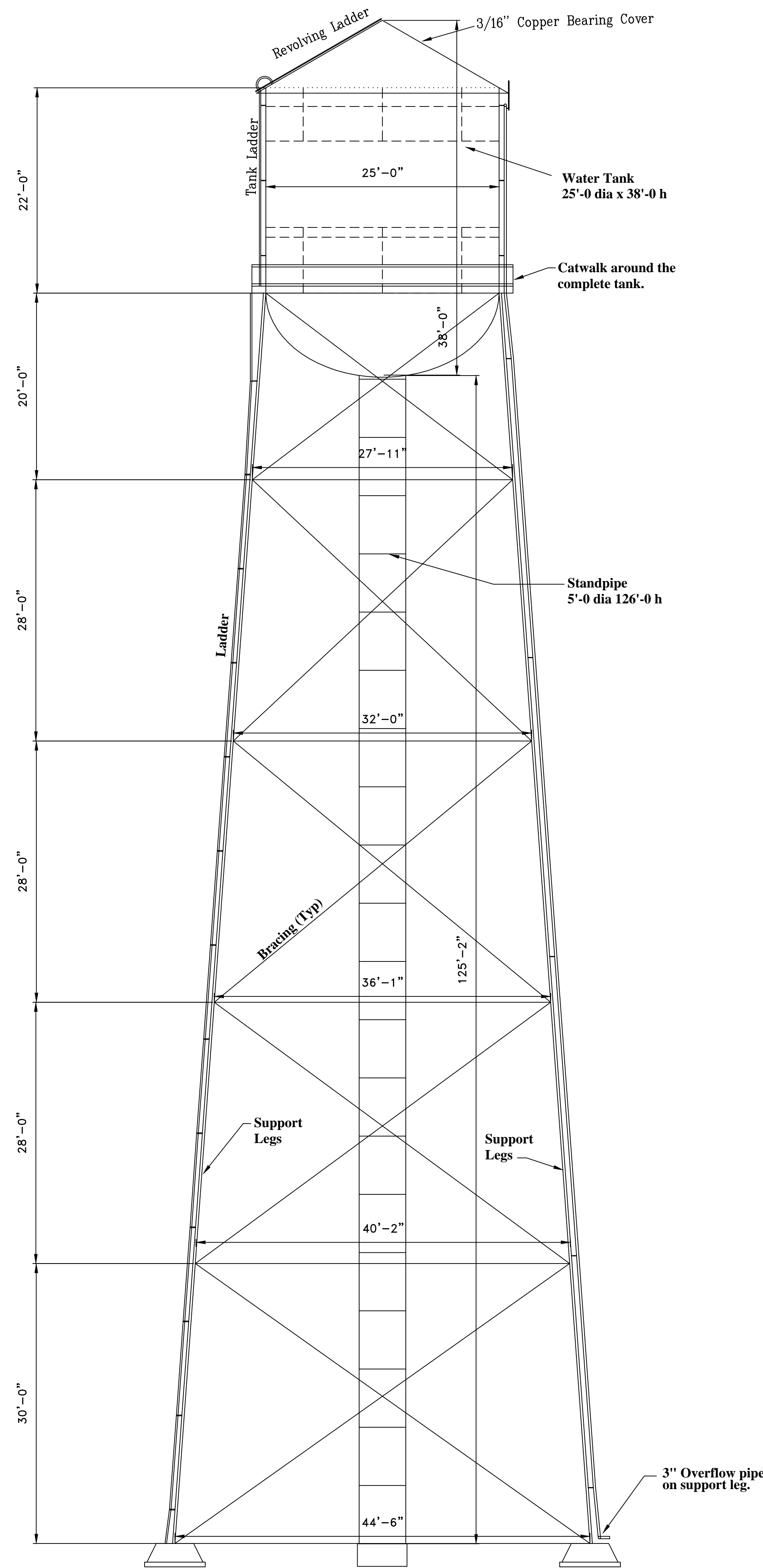


Dept. of Veterans Affairs  
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1011 Honor Heights Drive  
Muskogee, OK. 74401

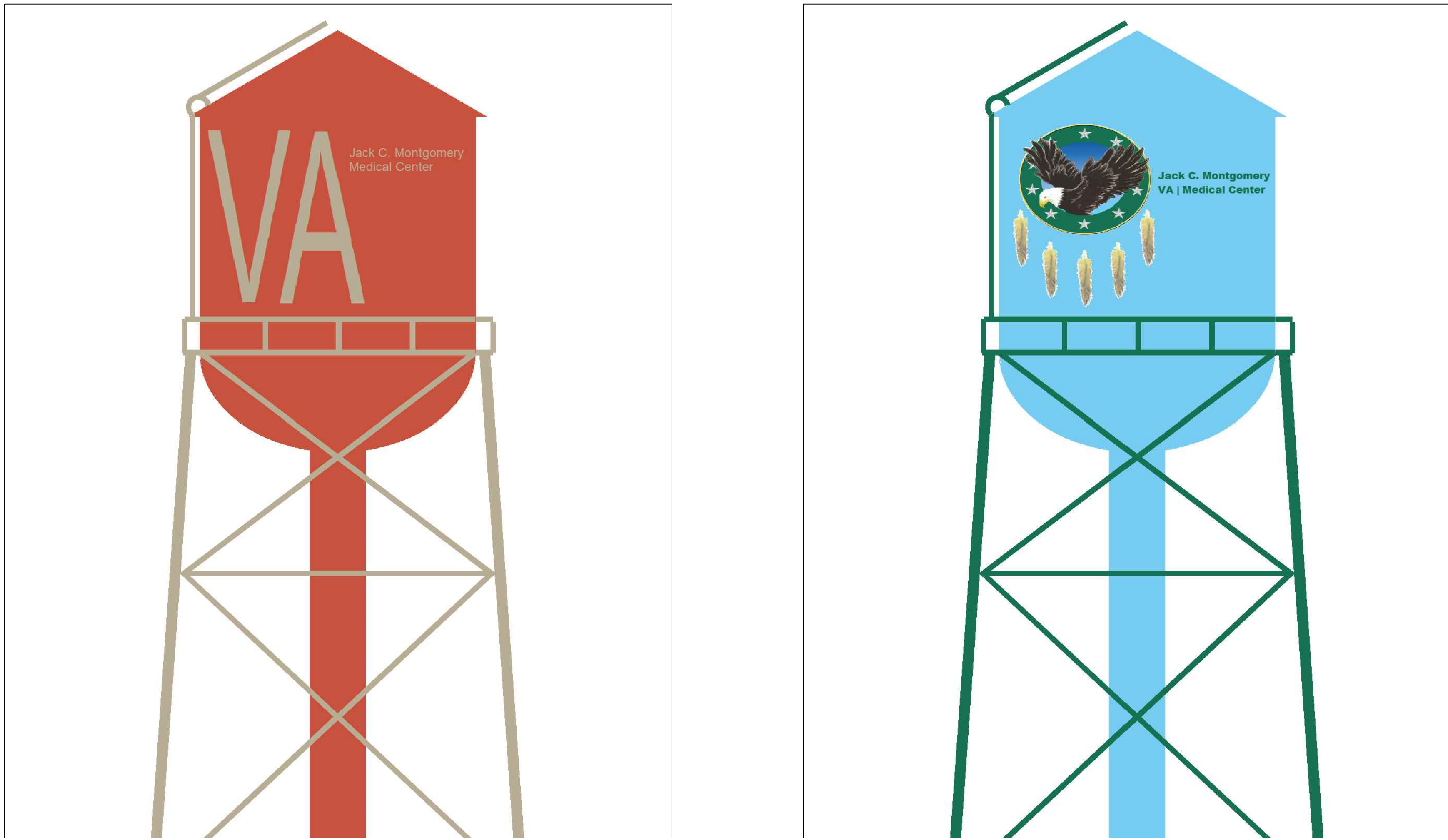
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APPROVED: Assoc. Medical Center Director	APPROVED: Safety Manager	APPROVED:
APPROVED: Chief of Staff	APPROVED: Industrial Hygienist	APPROVED:
APPROVED: Chief, Engineering Service	APPROVED: Energy Manager	APPROVED:

DRAWING TITLE HIGH PRESSURE TIE-IN PLAN AND DETAILS		PROJECT TITLE WATER TOWER CORROSION CONTROL		DATE 12 DEC 2014
PROJECT NO. 623-15-105	CONTRACT NO.	DESIGNED BY: B PADGET	CHECKED BY:	SCALE:
BUILDING NO. SITE	AUTOCAD FILE NAME:	LOCATION V.A.M.C MUSKOGEE, OK.	DRAWING NO. C-2	DWG. 3 OF 4

DEPARTMENT OF  
VETERANS AFFAIRS



WATER TOWER ELEVATION  
SCALE: 1/8' = 1'-0"



TWO POSSIBLE PAINT SCHEMES  
ONE LOGO ON NE SIDE ONE LOGO ON SW SIDE


GENERAL CONSTRUCTION NOTES:

PROVIDE COR WITH A GOPRO HERO4 BLACK STANDARD CAMERA, 32GB MICRO SDHC MEMORY CARD, AND GOPRO HEAD STRAP+QUICK CLIP. THIS ITEM WILL BE USED TO INSPECT THE PAINT WORK.

CONTRACTOR SHALL PAINT WATER TOWER INTERIOR, EXTERIOR AND STRUCTURE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. PROCEDURES FOR SURFACE PREPARATION AND PAINT APPLICATION ARE LOCATED IN SPECIFICATION SECTION 09 91 00 INTERIOR PAINT COLOR WILL BE PINK IF POSSIBLE.

DIMENSIONS SHOWN ON THE ELEVATION ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF THE GIVEN INFORMATION BEFORE ENTERING A PROJECT BID.

CONTRACTOR SHALL PROTECT HIS WORKERS IN ACCORDANCE WITH OSHA REQUIREMENTS, CONTRACT SPECIFICATIONS AND HIS PROJECT SPECIFIC SAFETY PLAN.

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							APPROVED: Chief of Staff	APPROVED: Industrial hygienist	APPROVED:	PROJECT NO. 623-15-105		CONTRACT NO.	DESIGNED BY:	DRAWN BY:	
							APPROVED: Chief, Engineering Service	APPROVED: Energy Manager	APPROVED:	BUILDING NO. 23		AUTOCAD FILE NAME:	LOCATION MUSKOGEE, OK.	CHECKED BY:	
														DRAWING NO. C-3	
														DWG. 4 OF 4	