

DOWEL INSTALLATION - BUTT JOINT
CONTRACTOR'S OPTION

METHOD A: DRILL HOLES 1/2 DIA. LARGER THAN BAR, FILL HOLE WITH EPOXY RESIN AND INSTALL COATED DOWEL. GREASE EXPOSED HALF.

METHOD B: SET DOWELS THROUGH HOLES IN FORMS.

JOINT SPACING TABLE

PAVEMENT THICKNESS (INCHES)	MAXIMUM SPACING (FEET)*	RECOMMENDED SPACING (FEET)
4	8x8	6x6
4.5	10x10	8x8
5	12.5x12.5	10x10
5.5	12.5x12.5	12x12
6	15x15	12x12
7 OR MORE	15x15	13x13

* PER ACI 330

- NOTE:**
- ALL JOINTING SHALL CONFORM TO ST LOUIS COUNTY SPECIFICATIONS & DETAILS AND ACI 330R-08.
 - JOINT SPACING SHOWN IS FOR DIAGRAMMATIC PURPOSES.
 - THE CONCRETE CONTRACTOR SHALL SUBMIT A JOINTING PLAN FOR REVIEW TO THE CITY INSPECTOR AND ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
 - SIDEWALK JOINTS SHALL BE PER THE JOINT SPACING TABLE LOCATED ON THIS SHEET.
 - ALL SLAB SHALL NOT BE LESS THAN 8 FEET OR EXCEED 15 FEET. JOINTS SHALL BE AT LEAST 5 FEET FROM INLET STRUCTURES.

LOAD TRANSFER DOWEL SIZE AND SPACING FOR CONSTRUCTION AND CONTRACTION JOINTS (IF REQUIRED)*

PAVEMENT THICKNESS (INCHES)	IMPERIAL BAR SIZE	DOWEL DIA. (INCHES)	CONSTRUCTION JOINT DOWEL LENGTH (INCHES)	CONTRACTION JOINT DOWEL LENGTH (INCHES)
LESS THAN 5"			NOT REQUIRED	
5-6	#6	0.75	10	13
7	#8	1.0	13	16
8	#8	1.0	13	16
9-11	#10	1.25	15	18

* TABLE BASED ON ACI 360R-10. MAXIMUM JOINT OPENING OF 0.20 INCHES. DOWEL SPACING IS 12" ON CENTER. SPACINGS ARE BASED ON DOWELS IN DIRECT CONTACT WITH A THIN BOND BREAKER (GREASE). CAREFULLY ALIGN AND SUPPORT DOWELS DURING CONCRETE OPERATIONS. MISALIGNED DOWELS MAY LEAD TO CRACKING. TOTAL DOWEL LENGTH INCLUDES ALLOWANCES MADE FOR JOINT OPENING AND MINOR ERRORS IN POSITIONING DOWELS.

LENGTHS AND SPACINGS FOR #4, 1/2" DIA. TIE BARS*

PAVEMENT THICKNESS (INCHES)	TIE BAR LENGTH (INCHES)	TIE BAR SPACING (INCHES)		
		DISTANCE TO NEAREST FREE EDGE OR TO NEAREST JOINT WHERE MOVEMENT CAN OCCUR 12 FEET OR LESS	14 FEET	16-24 FEET
4-5	24	30	30	28
5.5	24	30	30	25
6	24	30	30	23
6.5	24	30	30	21
7	24	30	30	20
7.5	24	30	30	18
8	24	30	28	17
8.5	24	30	26	16
9	30	36	30	24

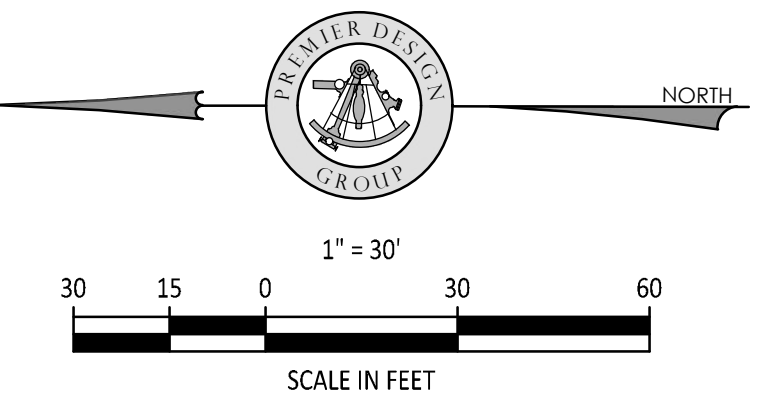
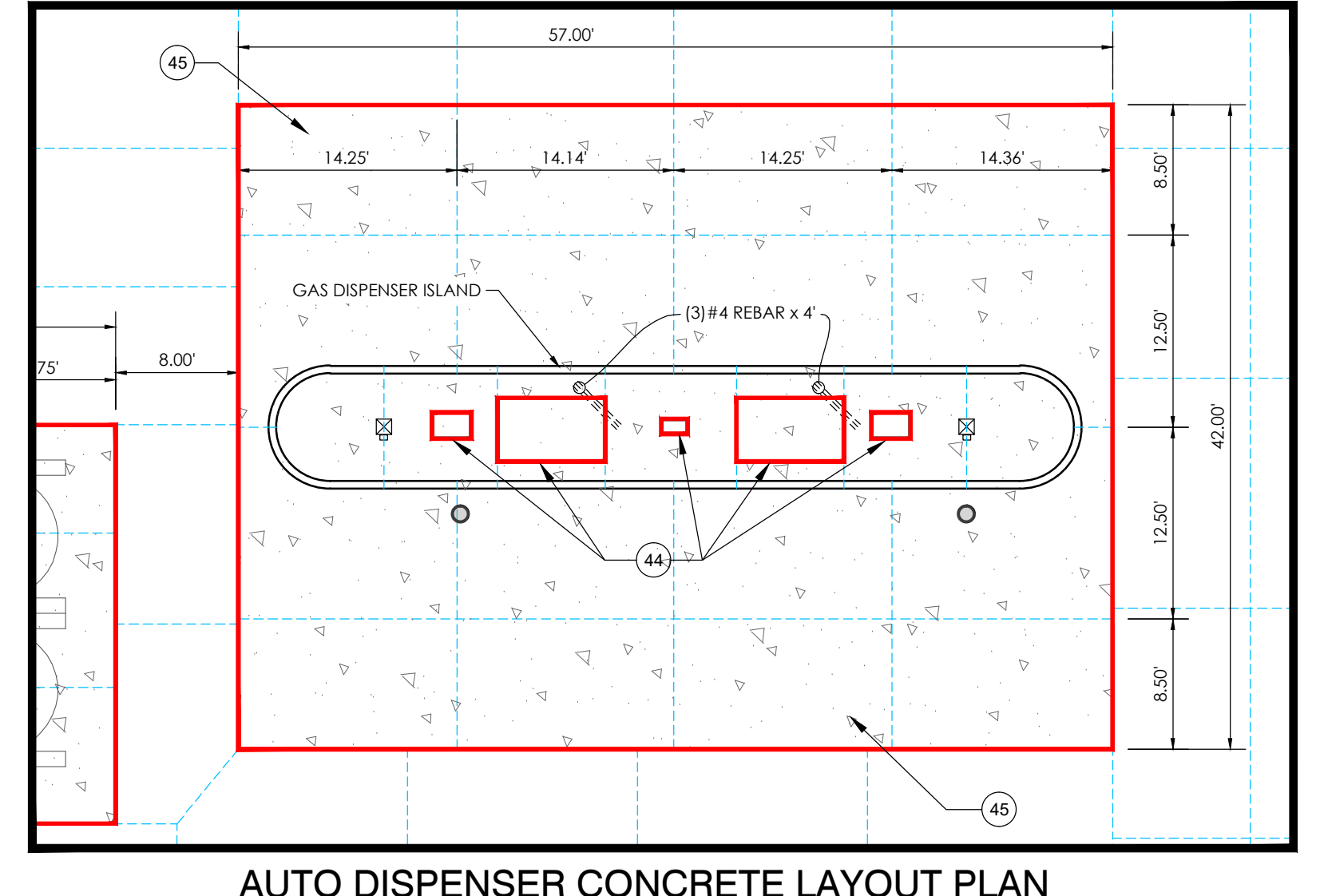
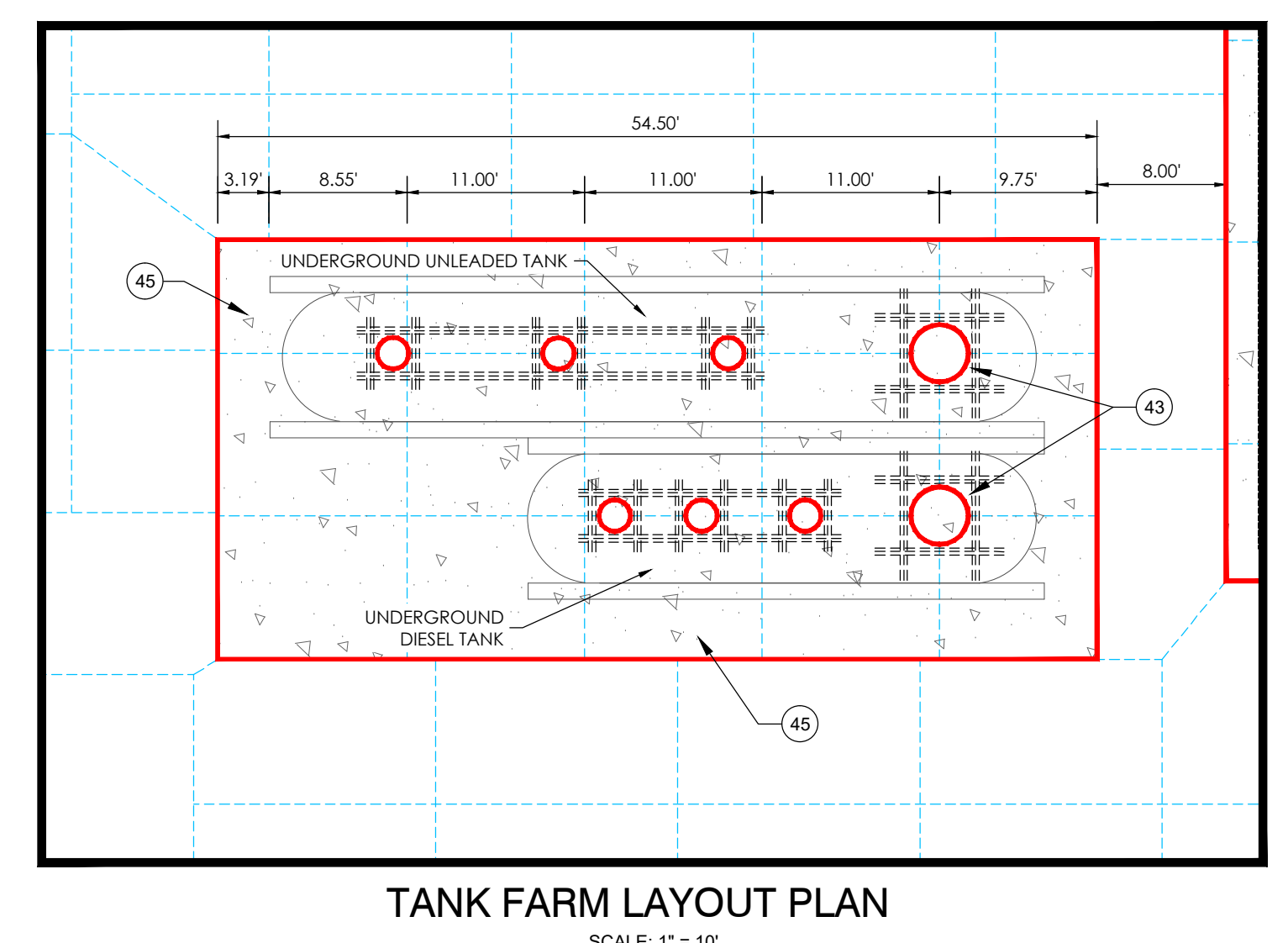
* PER ACI 330

LEGEND - PAVING AND JOINT LAYOUT:

- PROPERTY LINE
- SAWCUT LINE
- CONSTRUCTION JOINT
- TYPE A JOINT
- PROPOSED CONCRETE CURB
- EXISTING CURB

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	DETAIL
1	TYPICAL MANHOLE CROWNING AND CONCRETE REINFORCEMENT	1/C-303
2	TYPICAL ISOLATION JOINT AT STRUCTURES	2/C-303
3	OUTSIDE PERIMETER OF TANK PAD AND CANOPY PAD CONCRETE	3/C-203

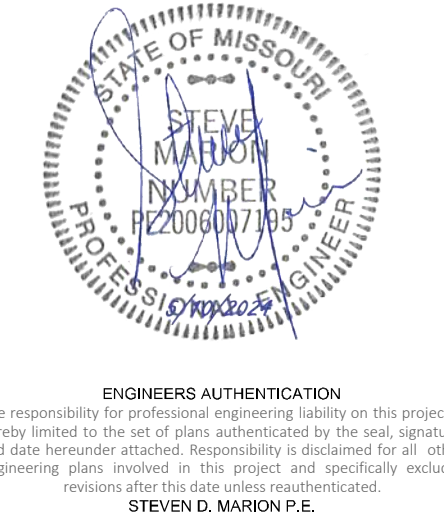


REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NO.: 2207920 DRAWN BY: A. JONES
DATE: 02/02/2024 REVIEWED BY: M. FOGARTY

PROFESSIONAL SEAL



PROJECT TITLE
OFFALON PUBLIC WORKS FACILITY

PROJECT ADDRESS:
1101 OLD E TERRA LANE
OFFALON, MO 63366

PAVEMENT JOINTING PLAN

View: 4/24/24 CIVIL BY PROJECT/2024/02/02/2024_000_City of Offalon MO Public Works/PAVING/CONSTRUCTION/DRAMA/MS/DRY/C-202 JOINTING PLAN.dwg

