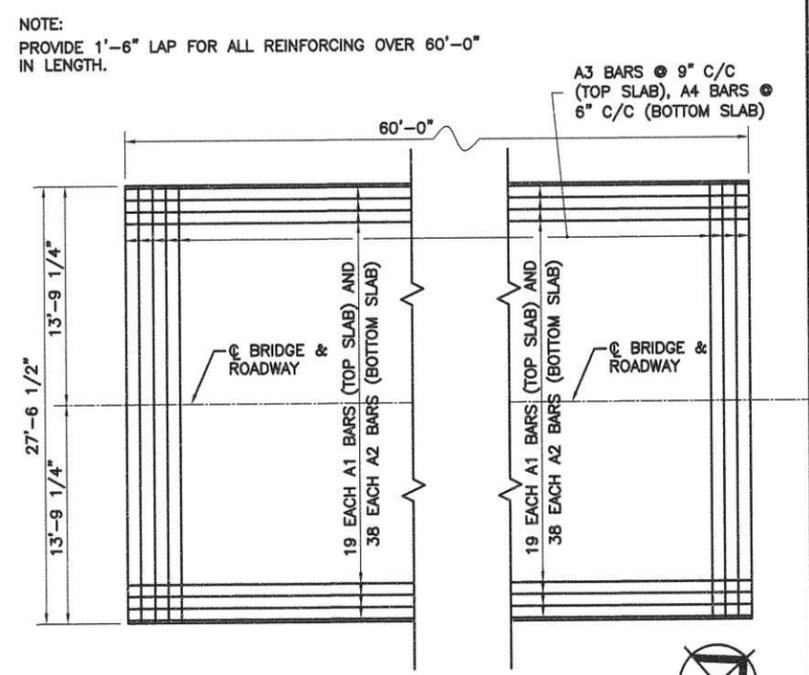
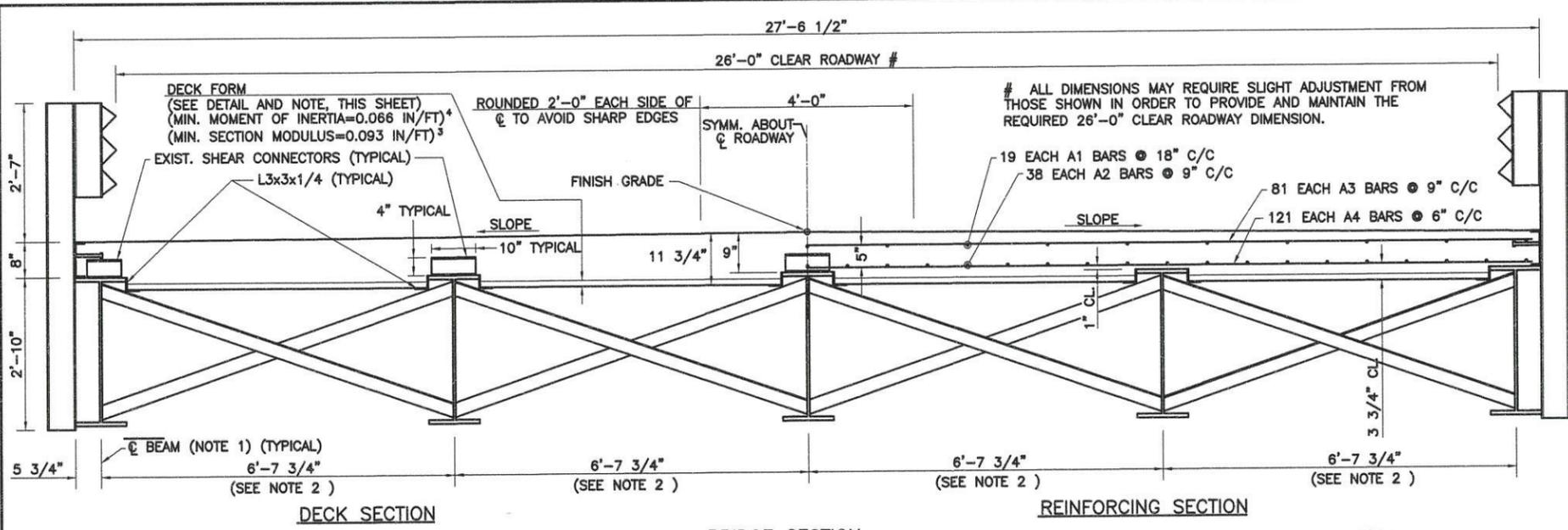
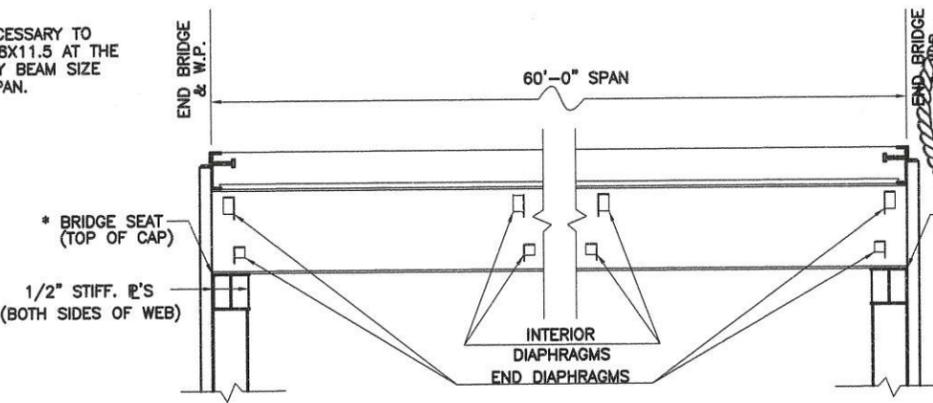
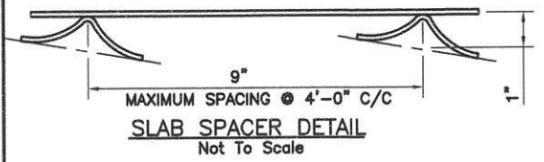


WAGONER COUNTY ENGINEER: 307 E. Cherokee Street, Wagoner, Oklahoma 74467
 MONY L. PROCTOR, P.E. #23098 Wk 918.485.7979 Fax 918.485.7992
 PROJECTS\WAGONER COUNTY (4)\FORCE ACCOUNT 60 5 BEAM\01\90 FT FORCE ACCOUNT 5138.DWG mark 5/26/2016

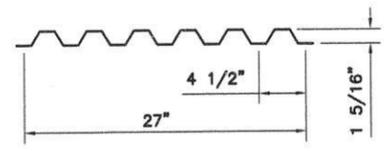


NOTE 1: 6 EA. W33X130 BEAMS

NOTE 2: THIS DIMENSION SHALL BE MODIFIED AS NECESSARY TO INSURE THE STRAIGHT ALIGNMENT OF THE CBX11.5 AT THE OUTSIDE EDGE OF SLAB WHEN THE ROADWAY BEAM SIZE CHANGES FROM ONE SPAN TO THE NEXT SPAN.

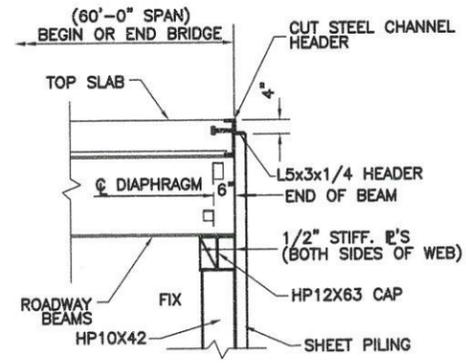
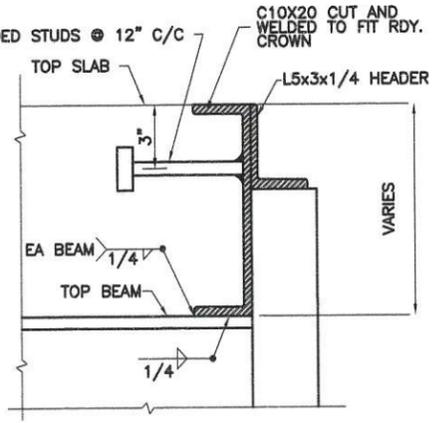
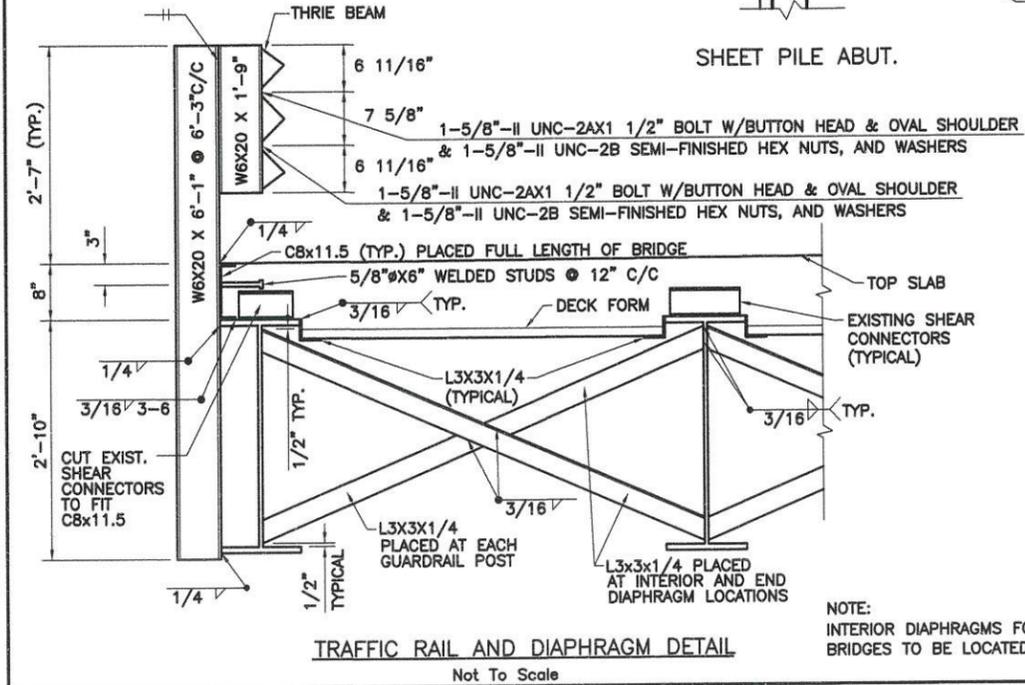


LOAD RATING DATA:
 H IR = 27 TONS
 OR = 45 TONS
 HS IR = 34 TONS
 OR = 56 TONS



NOTE:
 DECK FORM SHALL BE 22 GAUGE TEMPERED COLD ROLLED STEEL, SHEET FORMED TO A CORRUGATED RIB PATTERN OF 4 1/2" X 1 5/16". THE STEEL SHALL HAVE AN AVERAGE MINIMUM YIELD STRENGTH OF NOT LESS THAN 80,000 PSI. STEEL SHALL CONFORM TO A446, GRADE E WITH ZINC COATING CONFORMING TO ASTM A 525, G90 COATING CLASS. DECK FORM SECTIONS SHALL BE PLACED WITH RIBS PERPENDICULAR TO BEAMS AND WITH SIDE LAPS UP. ALLOW 3 INCHES FOR END LAPS AND CENTER ALL END LAPS OVER BEAMS. DO NOT ALLOW BOTTOM SHEETS TO EXTENDED BEYOND EDGE OF SUPPORT FLANGE. INSTALL ADJACENT ROWS END TO END, SIDE LAPPING ONE CORRUGATION RIB WITH PREVIOUSLY PLACED SECTION.

DECK FORM MATERIAL SHALL BE ELECTRIC ARC WELDED TO THE SUPPORTING STEEL BEAMS AND ADJOINING DECK SHEETS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. WELD SHALL NOT EXCEED 12" ON CENTER AT END LAP JOINTS AND 18" ON CENTER ON BEAMS. ALL SKEW CUTTING SHALL BE DONE IN THE FIELD. ALL COST OF DECK FORM SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK.



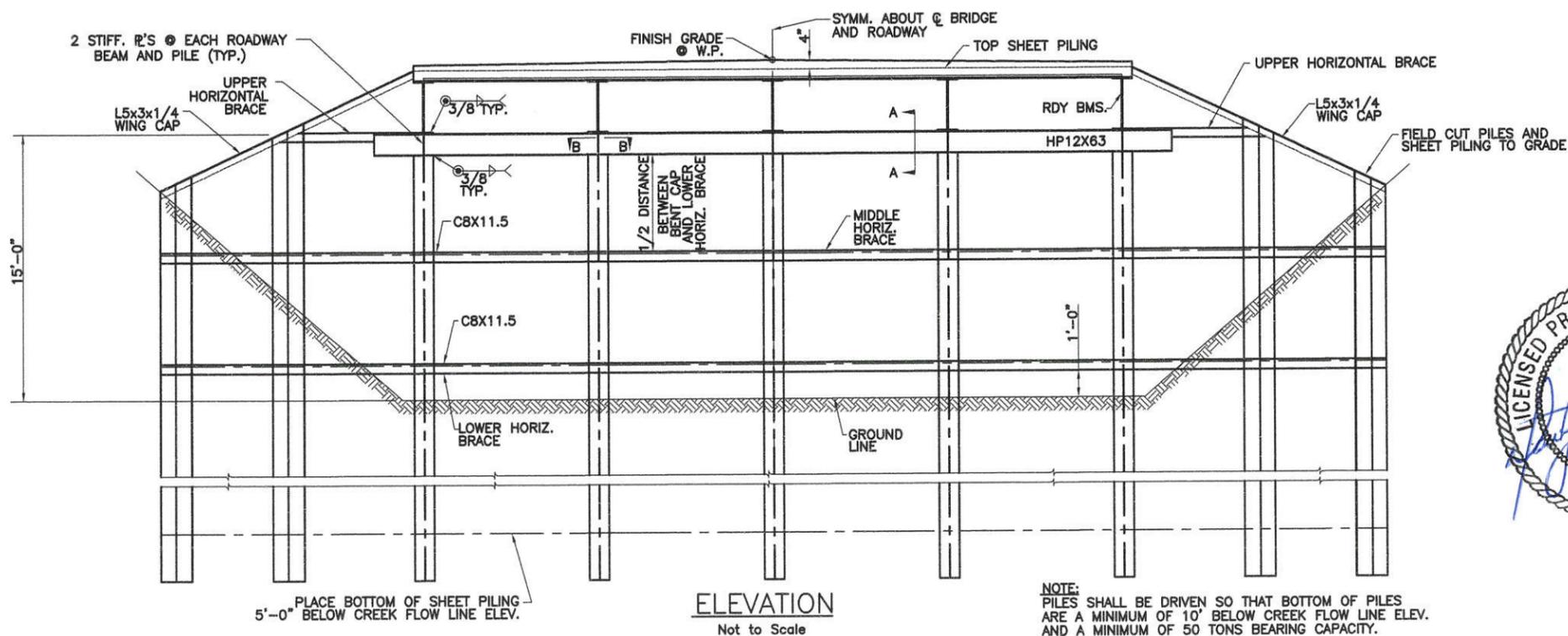
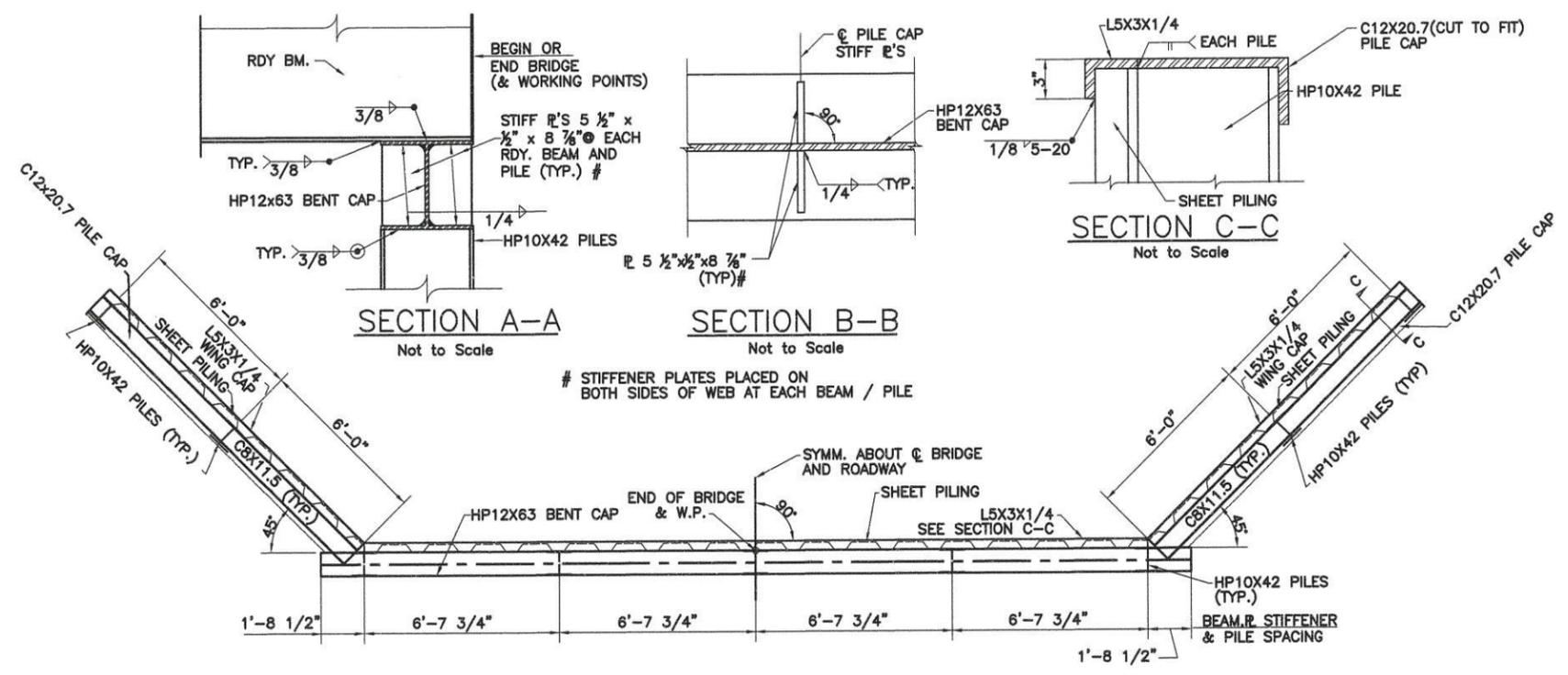
DECK REINFORCING STEEL *					
DECK LOC.	BAR	SIZE	SPACING	QTY.	LENGTH
TOP	A1	4	18 IN.	19	59'-8"
BOTTOM	A2	4	9 IN.	38	59'-8"
TOP	A3	5	9 IN.	81	27'-2 1/2"
BOTTOM	A4	5	6 IN.	121	27'-2 1/2"

* GRADE 60 REINF. STEEL

NOTE:
 INTERIOR DIAPHRAGMS FOR 90° SKEW BRIDGES TO BE LOCATED AT 1/3 POINTS.

WAGONER COUNTY
 60'-0" COUNTY BRIDGE
 DECK SECTION & DETAILS
 SHEET NO. 2

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NOTES:
 STEEL PILES SHALL BE DRIVEN TO A MINIMUM BEARING OF 50 TONS BEARING CAPACITY. ALL PILES SHALL BE DRIVEN TO REFUSAL.
 SHEET PILING SHALL BE 18 INCH, 12 GAUGE & 36 ksi (MINIMUM).
 STRUCTURAL STEEL SHALL BE 36 ksi.
 CONCRETE SHALL BE CLASS "AA"
 REINFORCING STEEL SHALL BE GRADE 60.
 ALTERNATE SHEET PILING MAY BE USED UPON APPROVAL OF THE ENGINEER. LOAD CAPACITY SHALL BE NO LESS THAN THAT PROVIDED BY SECTION SPECIFIED ON THIS SHEET.

STEEL PILING
 STEEL SHEET PILING SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM A87 FROM MATERIAL CONFORMING TO ASTM A570 GRADE 36. THE MATERIAL SHALL BE HOT DIP GALVANIZED PER ASTM A123 AT A RATE OF 2 OZ. PER SQUARE FOOT OF SURFACE AREA, ON BOTH SIDES. PREGALVANIZED MATERIAL SHALL CONFORM TO ASTM A446 GRADE A AND BE GALVANIZED PER ASTM A525 WITH A CLASS G210 COATING. STEEL SHEET PILING SHALL BE 12 GAUGE 0.1345 INCHES THICK WEIGHING 12.5 LBS. PER LINEAR FOOT OF PILE OR 76 LBS PER SQUARE FEET OF WALL, SHALL HAVE SECTION MODULE OF 3.60 IN.³ PER SECTION AND MOMENT OF INERTIA OF 6.0 IN.⁴ PER SECTION.

SUMMARY OF QUANTITIES				
ITEM	DESCRIPTION	QTY. (EA)	SIZE	TOTAL
DIAPHRAGMS	L3x3x1/4	16	20'	320'-0"
BENT CAPS	HP12x63	2	30'-0"	60'-0"
PILES (1)	HP10x42	18	40'-0"	720'-0"
SHEET PILING	SUPER 12-10ga.	88	22'-0"	1936'-0"
CLASS AA CONC. (5)	DECK CONC.	N/A	N/A	55.0 C.Y.
DECK FORMS	CORR. METAL	30	20' x 3'	1,800 S.F.
DECK FORMS	L3x3x1/4	8	60'-0"	480'-0"
DECK FORMS	C8x11.5	2	60'-0"	120'-0"
DECK FORMS	C10x20	2	27'-6 1/2"	55'-1"
BEAMS (3)(4)	W33X130	5	60'-0"	300'-0"
G. RAIL POSTS (2)	W6x20	28	6'-1"	170'-4"
G. RAIL BLOCKS (2)	W6x20	28	1'-9"	49'-0"
GUARD RAIL W BEAMS (4)	THRIE BEAMS	2	81'-3"	162'-6"
BRACING	C8x11.5	48	VARIES	310'-0"
SHEET PILE COVERS	L5x3x1/4	6	VARIES	140'-0"
H-PILE COVERS	C12x20.7	4	21'-3"	85'-0"
STIFFENER PLATES	5 1/2x1 1/2x8 7/8	20	N/A	N/A
REINFORCING STEEL	#4 BARS	57	59'-8"	3401'-0"
REINFORCING STEEL	#5 BARS	202	27'-2 1/2"	5496'-1"
WELDED STUDS	5/8x6	174	N/A	N/A
GUARD RAIL ANCHOR UNIT (TYPE I)	BEGR1-2	4	75'-0"	300'-0"

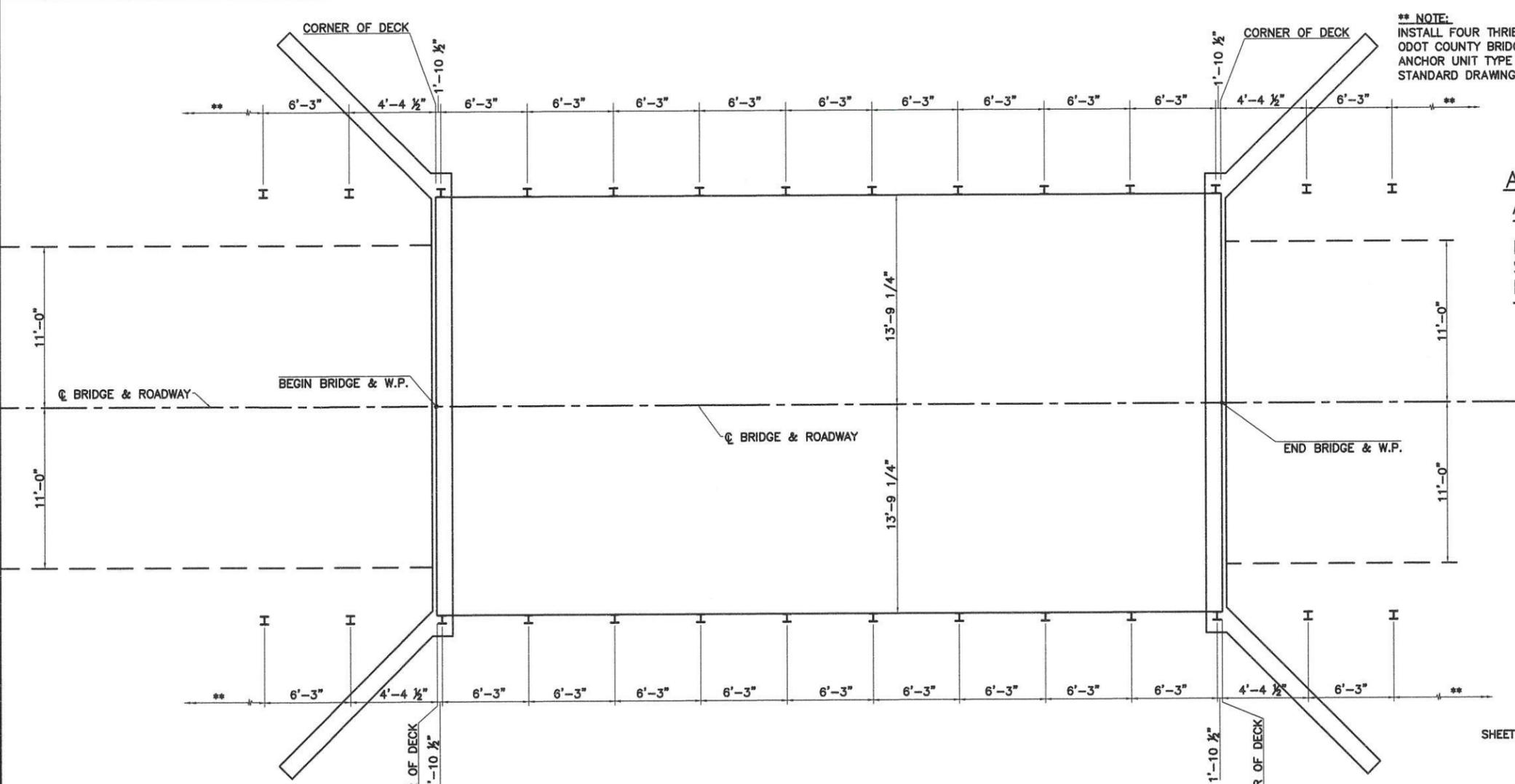
(1) ESTIMATED LENGTH
 (2) INCLUDES COST FOR 28 POSTS AND RAILS.
 (3) BEAMS PROVIDED BY OTHERS.
 (4) ADDING SHEAR CONNECTORS & CUTTING BEAMS INCLUDED IN OTHER ITEMS
 (5) INCLUDES COST OF SLAB SPACER CHAIRS & REBAR TIES



WAGONER COUNTY
 60'-0" COUNTY BRIDGE ABUTMENT DETAILS
 SHEET NO. 3

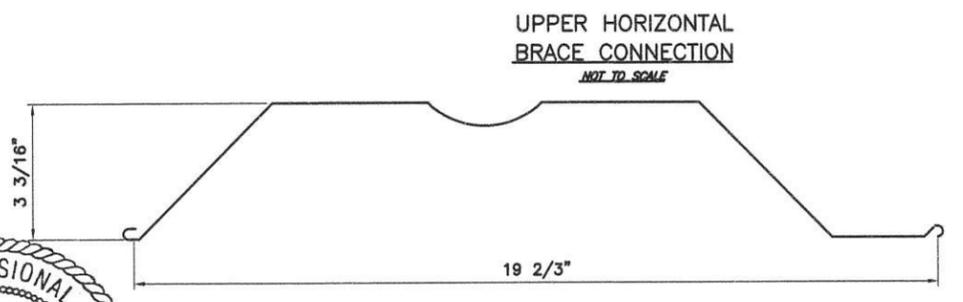
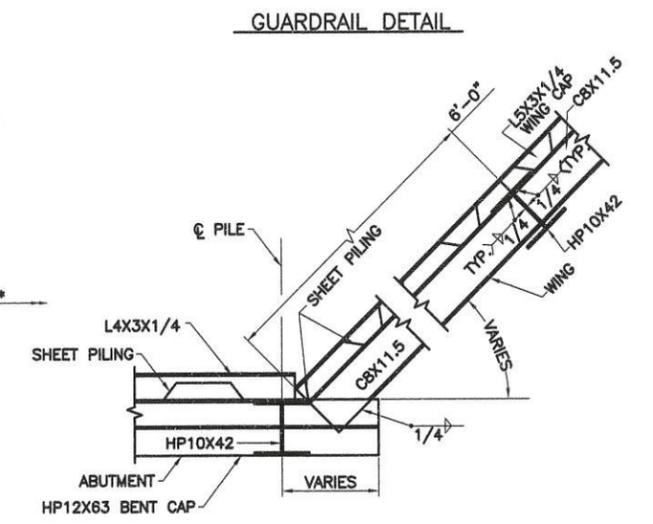
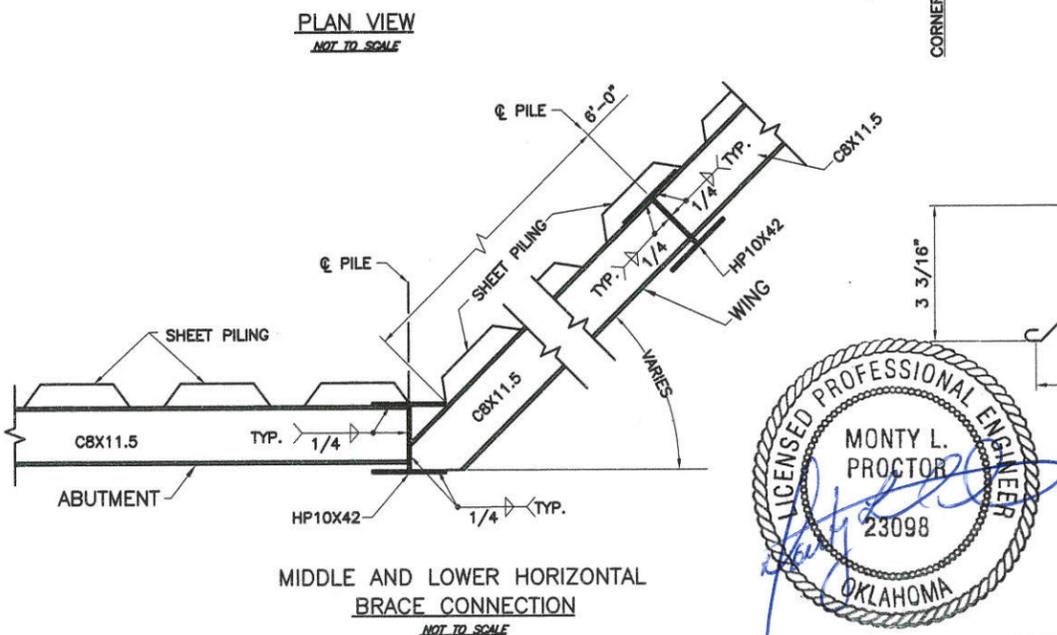
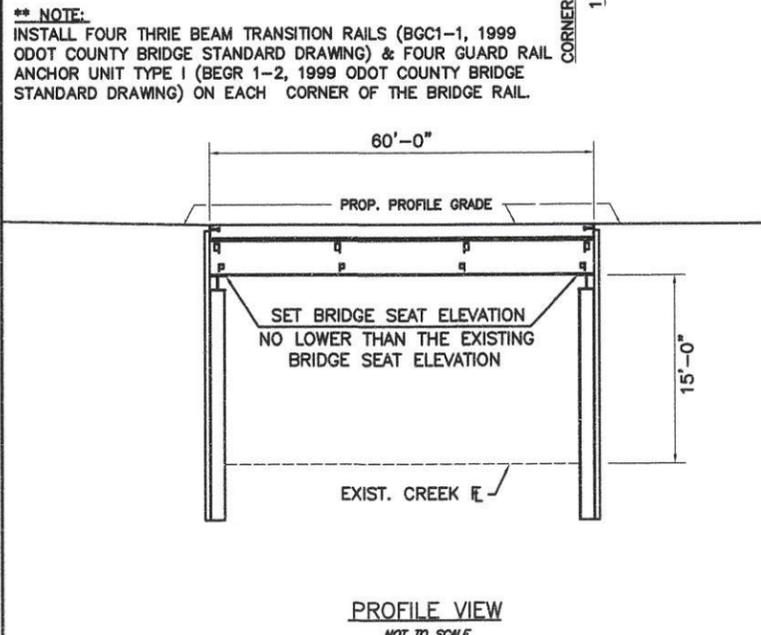
NOTE:
 PILES SHALL BE DRIVEN SO THAT BOTTOM OF PILES ARE A MINIMUM OF 10' BELOW CREEK FLOW LINE ELEV. AND A MINIMUM OF 50 TONS BEARING CAPACITY.

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**** NOTE:**
 INSTALL FOUR THRIE BEAM TRANSITION RAILS (BGC1-1, 1999 ODOT COUNTY BRIDGE STANDARD DRAWING) & FOUR GUARD RAIL ANCHOR UNIT TYPE I (BEGR 1-2, 1999 ODOT COUNTY BRIDGE STANDARD DRAWING) ON EACH CORNER OF THE BRIDGE RAIL.

ATTENTION:
 ALL ROADWAY WORK AND ALIGNMENT TO BE CONSTRUCTED BY COUNTY. ALL HORIZONTAL & VERTICAL ALIGNMENTS SHALL BE FIELD VERIFIED AND APPROVED BY THE COUNTY PRIOR TO ALL WORK. THE BRIDGE SEAT ELEVATION SHALL BE 15' ABOVE THE CREEK FLOWLINE



SHEET PILING SECTION
 NOT TO SCALE
 WAGONER COUNTY
 60'-0" COUNTY BRIDGE
 ADDITIONAL DETAILS
 SHEET NO. 4