BEFORE YOU DIG, CALL OKIE FOR LOCATION OF UNDERGROUND UTILITIES. 1-800-522-6543

CIRCUIT ENGINEERING DISTRICT #2

DESCRIPTION	REVISIONS	DATE

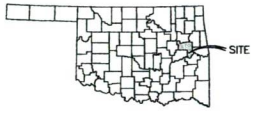
STATE OF OKLAHOMA
CIRCUIT ENGINEERING DISTRICT 2

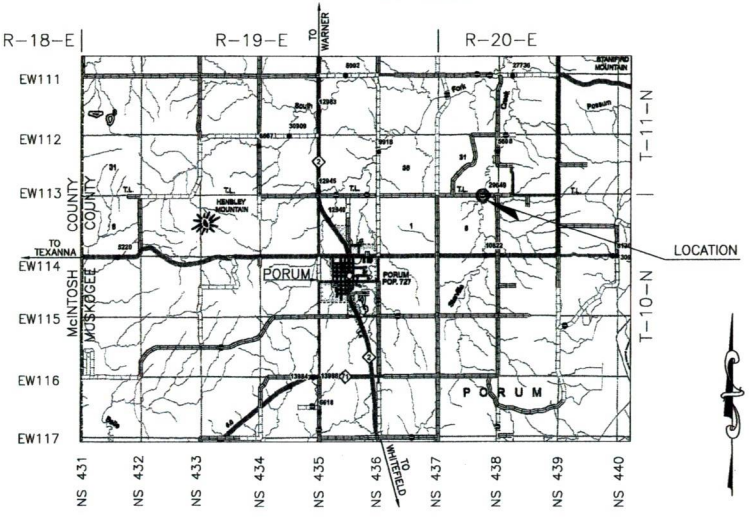
MUSKOGEE COUNTY

PLAN OF PROPOSED
COUNTY BUILT 55' CROSSTOWN BEAM BRIDGE
ON EAST 263rd STREET OVER STARVILLA CREEK

NEW NBI NO. ____
STR. NO. 51E1130N4370008
(35°22'37.83" 95°13'29.10")
LOCAL NO. ____

LOCATION MAP





SCALE: 1" = 5,280'

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	55'-0" SPAN 6 BEAM FORCE ACCOUNT DECK SECTION & DETAILS
3.	55'-0" SPAN 6 BEAM FORCE ACCOUNT ABUTMENT DETAILS
4.	55'-0" SPAN 6 BEAM FORCE ACCOUNT ADDITIONAL DETAILS

THE FOLLOWING STANDARD DRAWINGS SHALL BE REQUIRED:

2009 COUNTY BRIDGE
CB26-XTBM-SKO-DTL-00E

1976 STANDARDS COUNTY BRIDGE
(C-1) CY-IBN-PICT PICTORIAL VIEW I-BM BRIDGE
(C-11) CY-IBN-1 I-BM BRIDGE NON-COMPOSITE
(C-12) CY-IBN-2 I-BM BRIDGE NON COMPOSITE
(C-13) CY-IBNA-1 ABUTMENTS I-BM BRIDGE
(C-14) CY-IBNA-2 ABUTMENTS I-BM BRIDGE

2009 ROADWAY
DC-3-02
RDI-3-1
RWF-1-2-2
RWF-2-2-1
TSC2-3-1
TSD-2-0

1999 TRAFFIC
BGC1-1-00E
TBTU-2-02E

NOTE:
THE ABOVE STANDARDS ARE INCLUDED FOR CONSTRUCTION REFERENCES TO THESE PLANS.

CONVENTIONAL SYMBOLS

- PROPOSED ROAD
- RAILROADS
- RANGE & TOWNSHIP
- SECTION LINES
- QUARTER SECTION LINES
- FENCES
- GROUND LINE
- EXISTING ROADS
- BASE LINE
- GRADE LINES
- TELEPHONE & TELEGRAPH
- POWER LINES
- BUILDINGS
- DRAINAGE STRUCTURES - IN PLACE
- DRAINAGE STRUCTURES - NEW
- RIGHT-OF-WAY LINES - EXISTING
- RIGHT-OF-WAY LINES - NEW
- RIGHT-OF-WAY MARKERS - IN PLACE
- RIGHT-OF-WAY MARKERS - REMOVE & REPLACE
- RIGHT-OF-WAY MARKERS - NEW
- CONTROLLED ACCESS
- RIGHT-OF-WAY FENCE
- LIGHT POLE

ROADWAY LENGTH	200.00 FT.	0.037 MI.
BRIDGE LENGTH	55.00 FT.	0.010 MI.
PROJECT LENGTH		0.047 MI.

EXCEPTIONS : NONE
EQUATIONS : NONE

LICENSED PROFESSIONAL ENGINEER
MONTY L. PROCTOR
1/25/2023
23098
OKLAHOMA

APPROVED
THIS_____ DAY OF_____, 2023
BOARD OF COUNTY COMMISSIONERS
MUSKOGEE COUNTY, OKLAHOMA

CHAIRMAN

MEMBER

MEMBER

ATTEST: _____
COUNTY CLERK

MONTY L. PROCTOR, P.E.
OKLAHOMA P.E. NO. 23098
DATE

EASTERN OKLAHOMA CIRCUIT ENGINEERING DISTRICT

Adair, Cherokee, Haskell, McIntosh, Muskogee, Okmulgee, Sequoyah, Wagoner

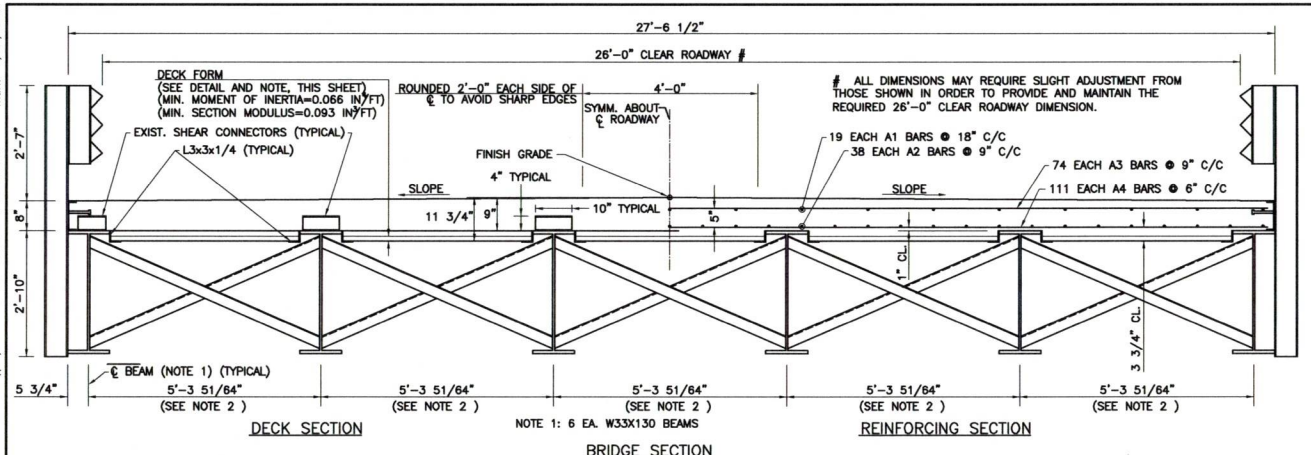
2

OKLAHOMA DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
DATE APPROVED	DATE APPROVED
BY	BY
CHIEF ENGINEER	DIVISION ADMINISTRATOR

Sheet No. 1

2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-ENGLISH GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION JANUARY 4, 2010.

REVIEWED BY:
MUSKOGEE CO. COMM. KEITH HYSLOPE DIST. #2

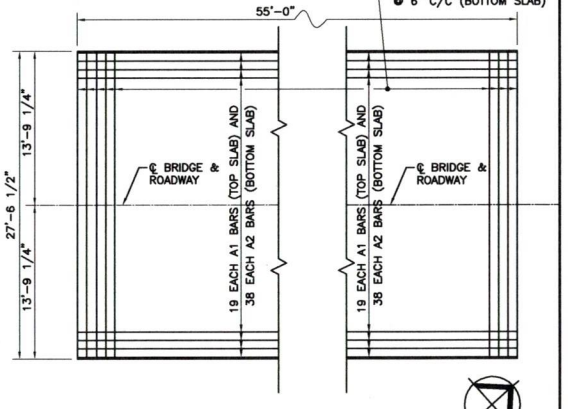


DECK SECTION

NOTE 1: 6 EA. W33X130 BEAMS

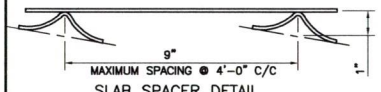
BRIDGE SECTION
Not To Scale

NOTE:
PROVIDE 1'-6" LAP FOR ALL REINFORCING OVER 60'-0" IN LENGTH.

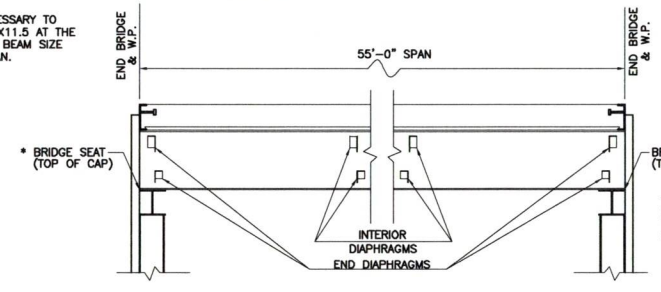


REINFORCING SECTION

NOTE 2: THIS DIMENSION SHALL BE MODIFIED AS NECESSARY TO INSURE THE STRAIGHT ALIGNMENT OF THE C8X11.5 AT THE OUTSIDE EDGE OF SLAB WHEN THE ROADWAY BEAM SIZE CHANGES FROM ONE SPAN TO THE NEXT SPAN.



SLAB SPACER DETAIL
Not To Scale



SHEET PILE ABUT. — PROFILE (Not To Scale) — SHEET PILE ABUT.

* SET BRIDGE SEAT ELEVATION EQUAL TO, BUT NO LOWER THAN, THE EXISTING BRIDGE SEAT ELEVATION.

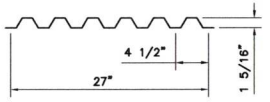
LOAD RATING DATA:
H IR = 27 TONS
OR = 45 TONS
HS IR = 34 TONS
OR = 56 TONS

TYPICAL SLAB REINFORCING
Not To Scale

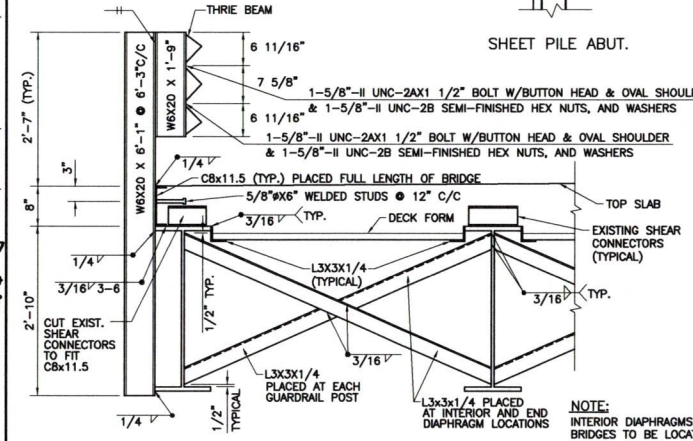
NORTH

NOTE:
DECK FORM SHALL BE 22 GAUGE TEMPERED COLD ROLLED STEEL, SHEET FORMED TO A CORRUGATED RIB PATTERN OF 4 1/2"X1 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.

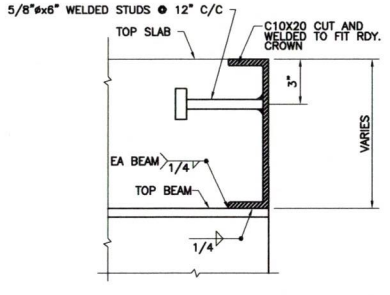


METAL DECK FORM DETAIL
Not To Scale

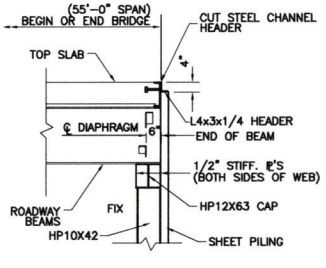


TRAFFIC RAIL AND DIAPHRAGM DETAIL
Not To Scale

NOTE:
INTERIOR DIAPHRAGMS FOR 90° SKEW BRIDGES TO BE LOCATED AT MID-SPAN OF 20', 25', 30', 35' AND 40' SPANS AND AT 1/3 SPAN POINTS FOR 45', 50', 55' AND 60' SPANS.



STEEL CHANNEL HEADER AT SHEET PILING ABUTMENTS
Not To Scale



SHEET PILING ABUTMENTS
Not To Scale

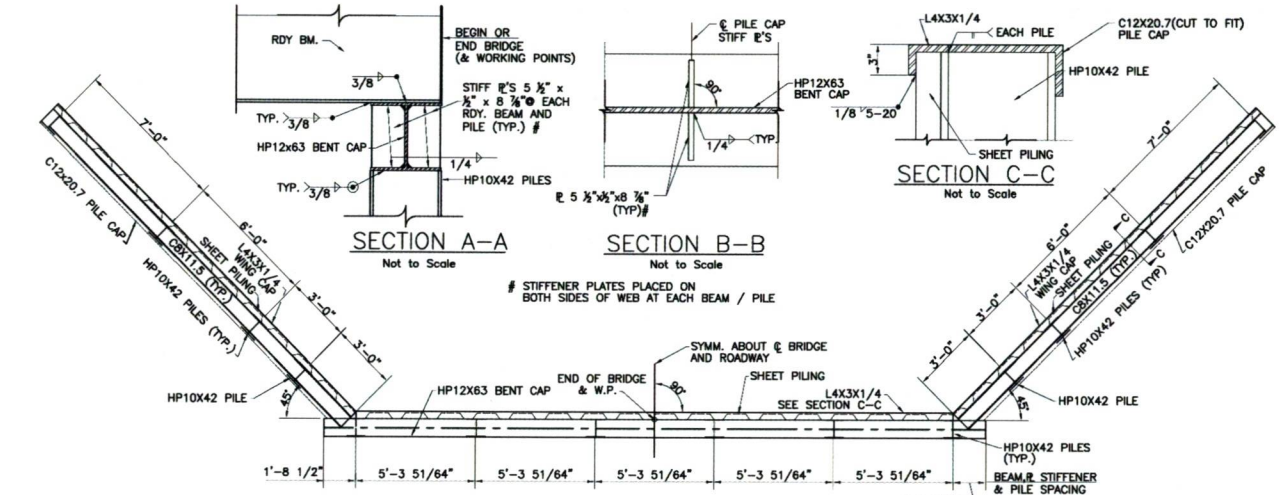
DECK REINFORCING STEEL *

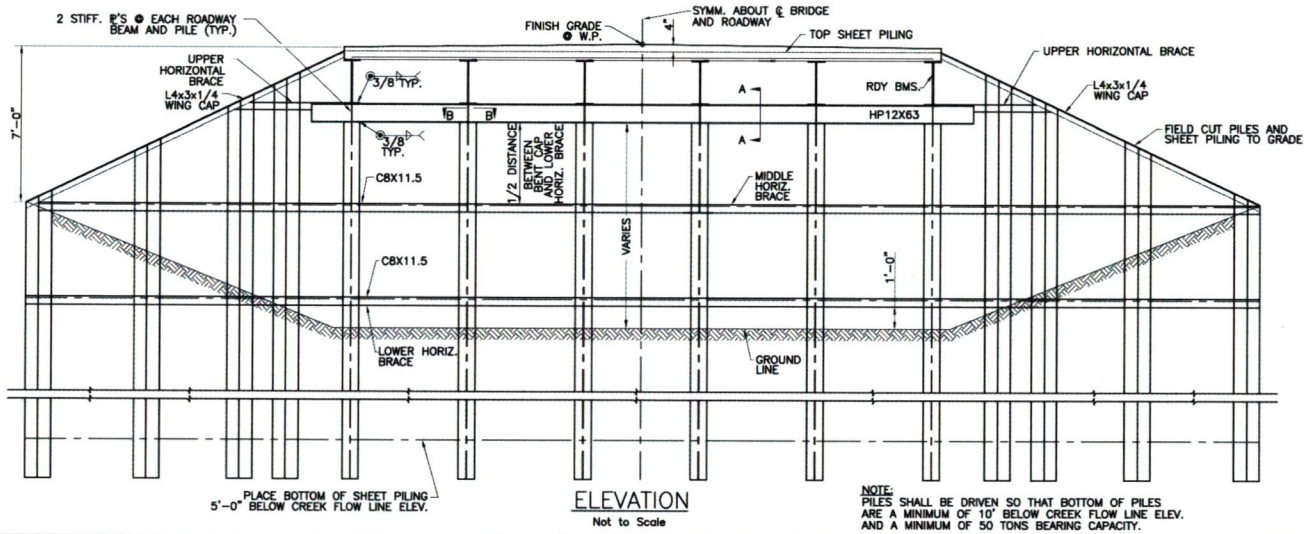
DECK LOC.	BAR	SIZE	SPACING	QTY.	LENGTH
TOP	A1	4	18 IN.	19	54'-8"
BOTTOM	A2	4	9 IN.	38	54'-8"
TOP	A3	5	9 IN.	74	27'-2 1/2"
BOTTOM	A4	5	6 IN.	111	27'-2 1/2"

* GRADE 60 REINF. STEEL

55'-0" SPAN 6 BEAM FORCE ACCOUNT DECK SECTION & DETAILS

SHEET NO. 2





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.

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 A857 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	80	5'-9"	345'-0"
BENT CAPS	HP12x63	2	30'-0"	60'-0"
PILES (1)	HP10x42	28	30'-0"	840'-0"
SHEET PILING	SUPER 12-12ga.	88	22'-0"	1936'-0"
CLASS AA CONC.	DECK CONC.	N/A	N/A	52.0 C.Y.
DECK FORMS	CORR. METAL	30	20' x 3'	1,800 S.F.
DECK FORMS	L3x3x1/4	10	55'-0"	550'-0"
DECK FORMS	C8x11.5	2	55'-0"	110'-0"
DECK FORMS	C10x20	2	27'-6 1/2"	55'-1"
BEAMS (5)(6)	W33X130	6	55'-0"	330'-0"
G. RAIL POSTS (4)	W6x20	28	6'-1"	170'-4"
G. RAIL BLOCKS (4)	W6x20	28	1'-9"	49'-0"
GUARD RAIL W BEAMS (4)	THRIE BEAMS	2	81'-3"	162'-6"
BRACING	C8x11.5	60	VARIES	284'-0"
SHEET PILE COVERS	L4x3x1/4	6	VARIES	138'-0"
H-PILE COVERS	C12x20.7	4	21'-3"	85'-0"
STIFFENER PLATES	1" 5 1/2x1/2x8 7/8	24	N/A	N/A
REINFORCING STEEL	#4 BARS	57	54'-8"	3116'-0"
REINFORCING STEEL	#5 BARS	185	27'-2 1/2"	5033'-6 1/2"
WELDED STUDS	5/8x6	174	N/A	N/A
GUARD RAIL ANCHOR UNIT (TYPE I) (2)(3)	BEGR1-2	4	75'-0"	300'-0"

(1) ESTIMATED LENGTH
(2) INCLUDES COST FOR POSTS AND THRIE BEAM TRANSITION RAILS (SEE ODOT 1999 STANDARD DRAWING BGC 1-1 FOR DETAILS).
(3) SEE ODOT 1999 STANDARD DRAWING BEGR 1-2 FOR DETAILS.
(4) INCLUDES COST FOR 28 POSTS AND RAILS.
(5) BEAMS PROVIDED BY OTHERS.
(6) COSTS FOR CUTTING BEAMS TO LENGTH INCLUDED IN OTHER ITEMS.

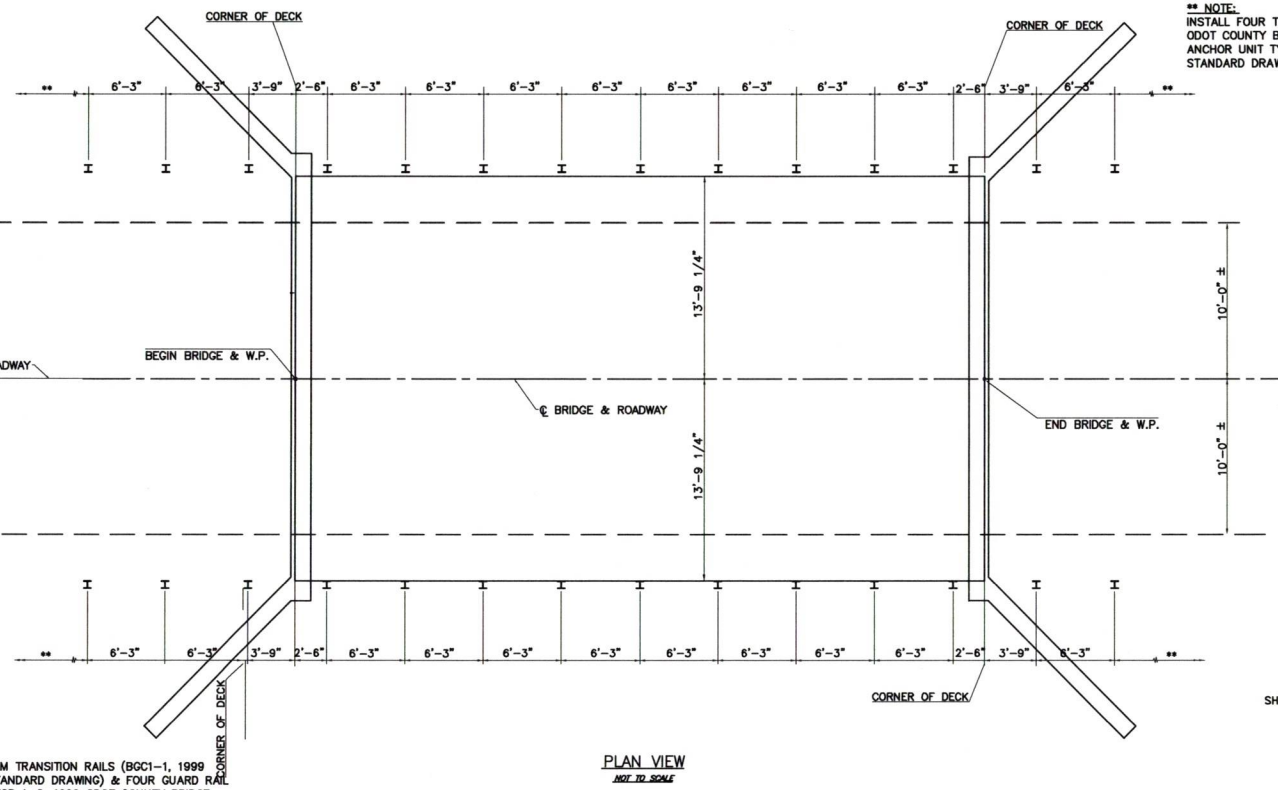
EASTERN OKLAHOMA CIRCUIT ENGINEERING DISTRICT

C:\PROJECTS\MUSKOGEE COUNTY\STARVILLA CREEK D2 PORJM\CROSSTOWN 55 FOOT 6 BEAM\(02)55 FT FORCE ACCOUNT 6 BEAM.DWG mark 1/25/2023

55'–0" SPAN 6 BEAM FORCE ACCOUNT ABUTMENT DETAILS

SHEET NO. 3

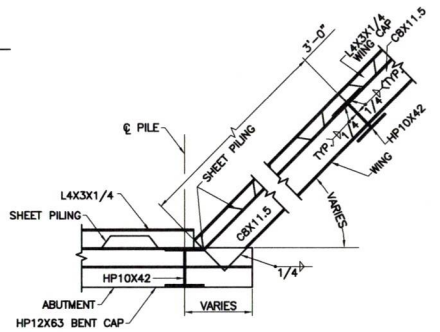
C:\PROJECTS\MUSKOGEE COUNTY\STARVILLA CREEK D2 PORUM\CROSSTOWN 55 FOOT 6 BEAM\(03)55 FT FORCE ACCOUNT 6 BEAM.DWG mark 1/30/2023



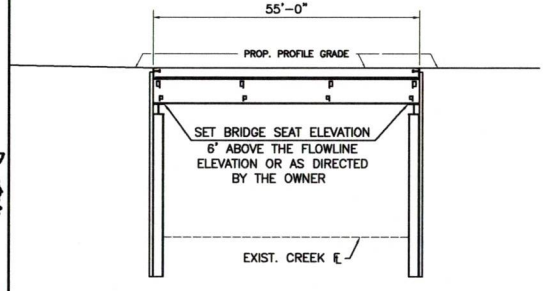
PLAN VIEW
NOT TO SCALE

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.

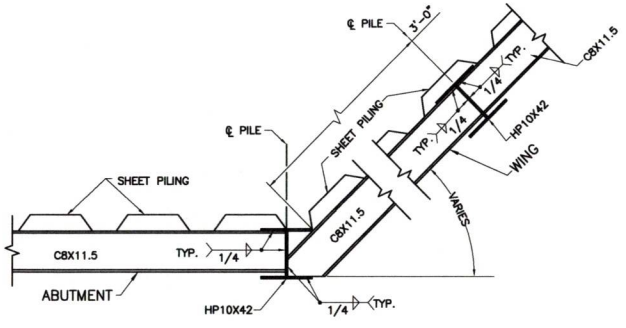
GUARDRAIL DETAIL



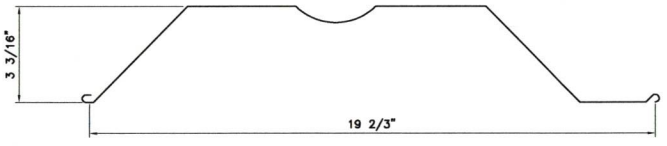
UPPER HORIZONTAL BRACE CONNECTION
NOT TO SCALE



PROFILE VIEW
NOT TO SCALE



MIDDLE AND LOWER HORIZONTAL BRACE CONNECTION
NOT TO SCALE



SHEET PILING SECTION
NOT TO SCALE

55'-0" SPAN 6 BEAM FORCE ACCOUNT ADDITIONAL DETAILS

SHEET NO. 4

Date: 2/6, 2023

Muskogee Board of County Commissioners

Kenny Payne, Chairman

ATTEST:

Polly Irving, County Clerk

Ken Doke, Member

Keith Hyslop, Member

COUNTY OF MUSKOGEE
STATE OF OKLA