NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.



OKLAHOMA TURNPIKE AUTHORITY CONTRACT NO. HEB-MC-54

BRIDGE REPLACEMENT

TPU BRIDGE NO. 16.45B PROJECT NO. SSP-217C(014)SS STATE JOB NO. 29525(04) LOCATION NO. 1737 0850X - NBI NO. 16078 (OLD) NBI NO. 31210 (NEW)

MILEPOST 14 - COTTON COUNTY

LOCATION MAP

DESIGN DATA

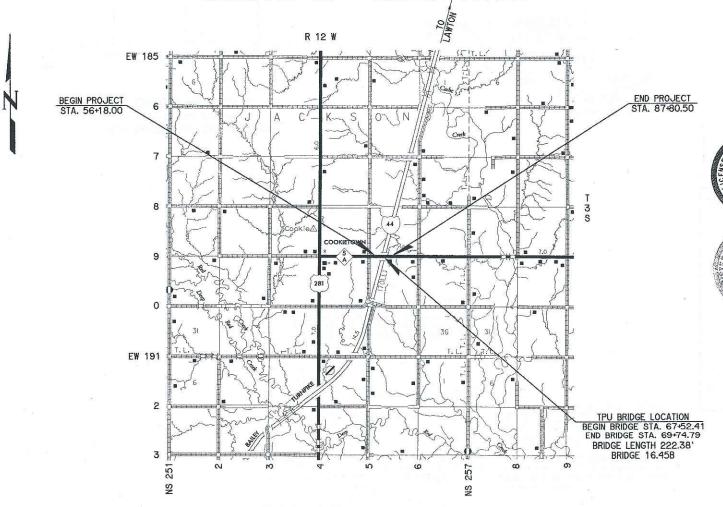
AADT (2015) AADT (2035) = 350 VPD = 500 VPD = 65 MPH T3 (% DHV) 20 YR. FLEX ESALS = 0.53 M



CONVENTIONAL SYMBOLS

S2000 100	PROPOSED ROAD
1111 -	RAILROADS
-	RANGE & TOWNSHIP
	SECTION LINES
	QUARTER SECTION LINES
——x——	FENCES
-	GROUND LINE
==	EXISTING ROADS
	BASE LINE
0000	GRADE LINES
	TELEPHONE & TELEGRAPH
-0-4-0	POWER LINES
	BUILDINGS
•	OILWELL
)====(DRAINAGE STRUCTURES - IN PLACE
=	DRAINAGE STRUCTURES - NEW
PRES. R/Wo.	RIGHT-OF-WAY LINES - EXISTING
R/B)	RIGHT-OF-WAY LINES - NEW
	CONTROLLED ACCESS
	RIGHT-OF-WAY FENCE
	THOUSE THE PERSON

THE 2010 STANDARD SPECIFICATIONS FOR TURNPIKE CONSTRUCTION GOVERN THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, SPECIAL PROVISIONS GOVERN OVER STANDARD SPECIFICATIONS.



 ROADWAY LENGTH
 2940.12 FT.
 0.556 MI.

 BRIDGE LENGTH
 222.38 FT.
 0.042 MI.

 PROJECT LENGTH
 0.598 MI.

 EQUATIONS
 NONE

 EVCEPTIONS
 MONE

EXCEPTIONS NONE

INDEX OF SHEETS

1	TITLE SHEET DESCRIPTION REVISIONS
	TYPICAL SECTION
2	PAY ITEMS & GENERAL CONSTRUCTION NOTES (ROADWA
4	PAY ITEMS & GENERAL CONSTRUCTION NOTES (TRAFFIC
5	BRIDGE GENERAL NOTES
6	SUMMARY OF BRIDGE PAY QUANTITIES
7	SUMMARY SHEET (ROADWAY)
8	RCB WING DETAIL
9	STORMWATER MANAGEMENT PLAN
10-11	EROSION CONTROL PLAN
12-13	GEOMETRIC LAYOUT
14-15	REMOVAL SHEETS
16-18	PLAN AND PROFILE SHEETS
19	GENERAL PLAN AND ELEVATION
20	FOUNDATION REPORT
21	SUBSTRUCTURE LAYOUT AND SUMMARY OF BRIDGE QUA
22	SUBSTRUCTURE EXCAVATION AND PIPE UNDERDRAIN DE
23-25	ABUTMENT DETAILS
26-27	PIER DETAILS
28-33	SUPERSTRUCTURE DETAILS
34	APPROACH SLAB DETAILS
35-36	SLOPE WALL DETAILS
37	DRAINAGE DETAILS AT END OF BRIDGE
38-39	SUGGESTED CONSTRUCTION SEQUENCE
40	DETOUR PLAN
41-48	TRAFFIC CONTROL
49-62	CROSS SECTIONS
63-71	SURVEY DATA SHEETS

OKLAHOMA TURNPIKE AUTHORITY SECTION CONTRACT NUMBER SHEET NO.

HEB HEB-MC-54 1

2009 ODOT REQUIRED	STANDARDS	T007 4 00	TC004 4 00
The state of the s	KANNING THE PARTY OF THE PARTY	TCS7-1-02	TCS24-1-02
BRIDGE	SPI-4-0	TCS8-1-00	TCS25-1-00
SHP-42-2-00E	SPB-1-3	TCS9-1-01	PM1-1-02
EJ-SK-03E	FHTMP-5-0	TCS10-1-00	PM3-1-02
EJ-DTL-01E	SBI-4-2	TCS11-1-01	PM4-1-01
HP1-2-00E	RDI-3-1	TCS13-1-00	₩SD3-1-00
RCB-C1-3&4&5(2-20)-01E	DC-3-2	TCS14-1-00	SBS1-1-00
RCB-E1-H3-O-1-01E	RWF1-2-2	TCS15-1-00	GMS1-1-00
RCB-E1-H3-0-2-01E	RWF2-2-1	TCS18-1-01	SSP1-1-02
RCB-CW1-D4-0-01E		TCS19-1-01	SSA1-1-00
ANTERIOR PROGRAMA	TRAFFIC	TCS20-1-00	IA-1-1-00
ROADWAY	THRI-1-02	TCS21-1-02	MPP1-1-00
ECS-4-1	SKT-1-00	TCS22-1-00	
PUD-3-2	TCS1-1-01		
PED-3-2	TCS2-1-00	1999 ODOT	REQUIRED

SSS-1-1 TSC2-3-2 TCS3-1-01 TCS4-1-01 **STANDARDS** TSD-2-0 RCB1-1-00E



CET6S-3-1

WHITE ENGINEERING ASSOCIATES, INC.

TCS6-1-02

2/13/2015 DATE

RCB2-1-00F



SMITH ROBERTS BALDISCHWILER, LLC

JOHN K. BALDISHCHWILER, P.E.

2/16/2015

REVIEWED BY:

OLSSON ASSOCIATES

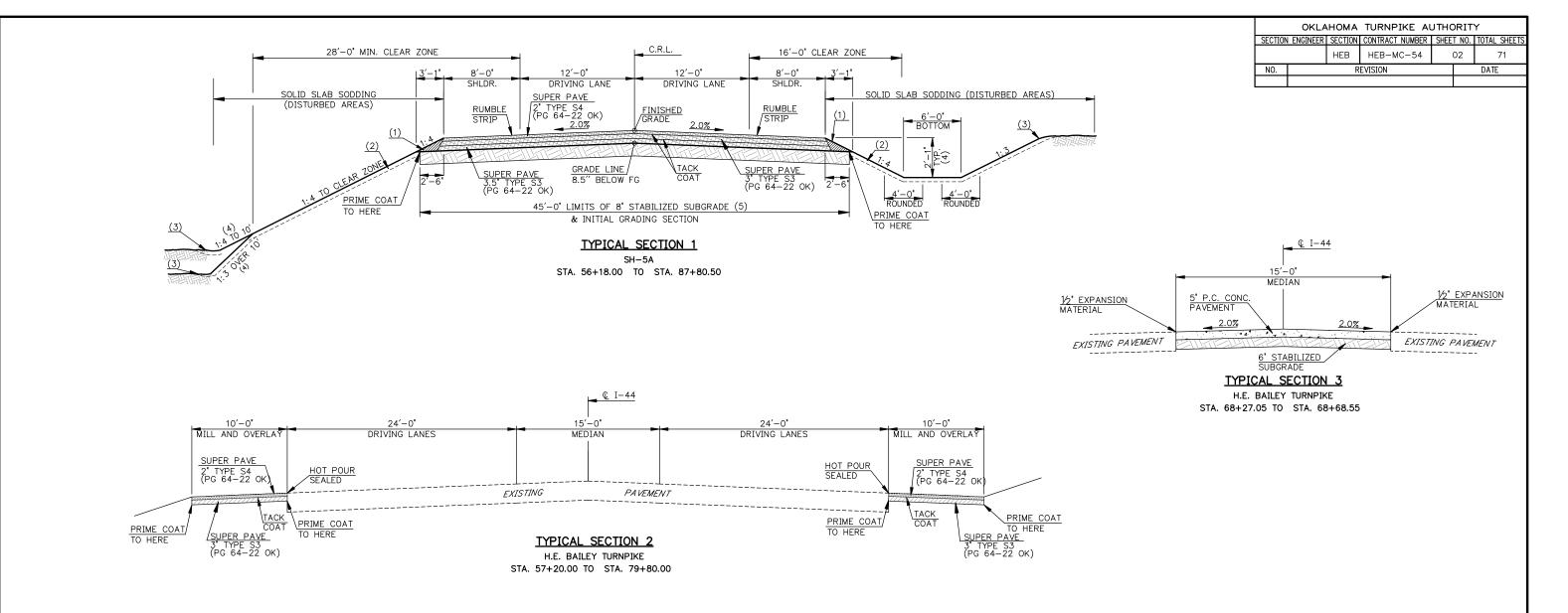
2/13/2015

ACCEPTED BY:

OKLAHOMA TURNPIKE AUTHORITY

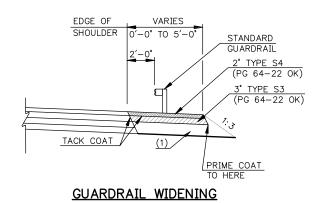
TROY TRAVIS, P.E. DIRECTOR OF ENGINEERING

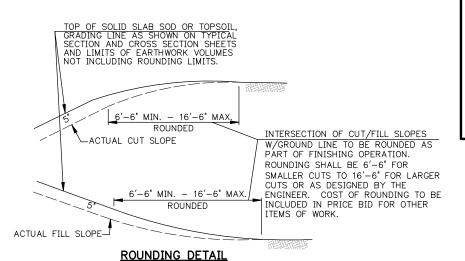
THIS DESIGN IS SPECIFICALLY PREPARED FOR USE AT THE LOCATION SHOWN. USE IN ANY OTHER MANNER EXCEEDS THE INTENDED PURPOSE OF THESE DRAWINGS AND



NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.





- (1) BACKFILL NOTE:
 THIS AREA TO BE BACKFILLED AND COMPACTED AS A PART OF THE FINISHING
 OPERATIONS. COST TO BE INCLUDED IN OTHER ITEMS OF WORK..
- (2) TOPSOIL NOTE:
 THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATION. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED THE MASSLINE BALANCE.

- (3) SEE ROUNDING DETAIL THIS SHEET.
- (4) DISTANCES ARE MEASURED VERTICALLY FROM THE EDGE OF THE FINISHED SHOULDER.
- (5) BORROW MATERIAL HAVING SULFATE CONCENTRATIONS HIGHER THAN 500PPM SHALL NOT BE USED IN THE TOP 24" OF THE GRADING SECTION

ОКІ		MA TURNPIKE A . BAILEY TURN				
PLAN SCALE PROFILE SCALE HORIZONTAL	TYPICAL SECTIONS SHEET 1 OF 1					
VERTICAL	Smith	Roberts Baldischw	iler, LLC SECTION			
DESIGNED: DH		CONTRACT NO. HEB-MC-	-54			
DRAWN: DH CHECKED: DH		DATE: 12-10-2014	SHEET NO. 02			

ARI A-R	DADWAY			
ITEM NUMBER	DESCRIPTION		UNIT	QUANTIT
201(A)	CLEARING AND GRUBBING		LSUM	
202(A)	UNCLASSIFIED EXCAVATION	(SP-3)	C.Y.	5,76
202(D)	UNCLASSIFIED BORROW	(SP-2) (0-1)	C.Y.	42,48
205(A)	TYPE A-SALVAGED TOPSOIL	(R-5) (R-7)	LSUM	
221(C)	TEMPORARY SILT FENCE	(0-2)	L.F.	4,48
221(F)	TEMPORARY SILT DIKE	(0-2)	L.F.	18
229	DITCH LINER PROTECTION		L.F.	36
230(A)	SOLID SLAB SODDING	(R-7)	S.Y.	33,08
230(F)	WATERING	(R-9)	KGAL.	1,32
233(A)	VEGETATIVE MULCHING	(R-11)	AC	
241	MOWING	(0-14)	AC	2
307(K)	STABILIZED SUBGRADE		S.Y.	14,49
402(E)	TRAFFIC BOUND SURFACE COURSE TYPE E	(R-25)	TON	7
407(B)	TACK COAT	(0-12)	GAL.	4,85
408	PRIME COAT	(R-28)	GAL.	6,83
411(B)	SUPERPAVE, TYPE S3 (PG 64-22 OK)	(R-32)	TON	5,93
411(C)	SUPERPAVE, TYPE S4 (PG 64-22 OK)	(R-32)	TON	2,18
412	COLD MILLING PAVEMENT		S.Y.	5,02
413(A)	RUMBLE STRIP-METHOD HMA-CON		L.F.	5,77
414(A)	P.C. CONCRETE PAVEMENT (PLACEMENT)		S.Y.	6:
414(G)	P.C. CONCRETE FOR PAVEMENT		C.Y.	
430	PAVEMENT SMOOTHNESS (NON-BIDDABLE)		LSUM	
501(A)	STRUCTURAL EXCAVATION UNCLASSIFIED		C.Y.	3
509(A)	CLASS AA CONCRETE		C.Y.	6
509(B)	CLASS A CONCRETE		C.Y.	2:
509(D)	CLASS C CONCRETE		C.Y.	4
511(A)	REINFORCING STEEL		LB.	13,48
613(B)	18" CORR GALV. STEEL PIPE		L.F.	7
613(M)	TYPE A6 CULVERT END TREATMENT		EA	
619(A)	REMOVAL OF STRUCTURES & OBSTRUCTIONS	(R-48,49)	LSUM	
619(B)	REMOVAL OF HEADWALL	(R-49)	EA	
619(B)	REMOVAL OF FENCE	(R-49)	L.F.	3,40
619(B)	REMOVAL OF ASPHALT PAVEMENT	(R-49,50)	S.Y.	9,67
619(B)	REMOVAL OF GUARDRAIL	(R-49)	L.F.	2,73
619(B)	REMOVAL OF CONCRETE PAVEMENT	(R-49)	S.Y.	7
619(C)	SAWING PAVEMENT		L.F.	5
623(A)	BEAM GUARDRAIL W-BEAM SINGLE	(0-7)	L.F.	2,45
623(G)	GUARDRAIL END TREATMENT (31")	(8-0)	EA	
623(I)	GUARDRAIL BRIDGE CONN-TRAIL END (31")		EA	
624(A)	FENCE STYLE WWF	(R-52)	L.F.	55
624(C)	FENCE STYLE SWF 5BW	(R-52, 53)	L.F.	1,30
624(C)	FENCE STYLE SWF 6BW	(R-52, 53)	L.F.	1,36

THE DATLEY THRADIZE DRIDGE WAS ASD DEDLACEMENT

H.E. BAILEY TURNPIKE BRIDGE #16.45B REPLACEMEN HEB-MC-54 PAY QUANTITIES

PART A -	CONSTRUCTION		
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
106	QUALITY CONTROL AND ACCEPTANCE	LSUM	1
220	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	1
641	MOBILIZATION	LSUM	1
642	CONSTRUCTION STAKING	LSUM	1

H.E. BAILEY	TURNPIKE BRIDGE #16.45B REPLACEMENT		HEB-MC-54	1
	PAY QUANTITIES			
PART B -	PROJECT SITE RENTAL			1_{α}
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY] ``

\$/PSRD

3,000

GENERAL CONSTRUCTION NOTES

Grading & Site Work

645(A) PROJECT SITE RENTAL

(G-4) FOR PROJECTS THAT INCLUDE WIDENING AND/OR RESURFACING WORK, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROP-OFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE ENGINEER FOR APPROVAL, BEFORE OPERATIONS BEGIN. ANY PORTION OF THE CONSTRUCTION OPERATIONS, SUCH AS SUPERPAVE LAYING OPERATIONS, EXCAVATION FOR PAVEMENT WIDENING OR EXTENSION OF ROADWAY STRUCTURES, SHALL BE LIMITED TO ONE SIDE AT A TIME, AND THE PROCEDURES OUTLINED IN THE PAVEMENT DROP-OFF TREATMENT STANDARD PDT-1-2 SHALL BE IMPLEMENTED. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED THAT CAN BE SURFACED IN 1 (ONE) DAY'S TIME WITHOUT APPROVAL BY THE ENGINEER. LIGHTS, SIGNS, ÀND BARRICADES SHALL BE MOVED AS WORK PROGRESSES.

GENERAL CONSTRUCTION NOTES (CONTD.)

- (G-6) ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE, AT EACH STRUCTURE AND BRIDGE, IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK
- (G-8) ALL FLOWLINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
- (G-9) IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS AND BEFORE PAVEMENT WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
- (G-11) THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK. ANY REMAINING EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN A MANNER
- (G-12) PRIME COAT SHALL BE APPLIED TO THE SUBGRADE IMMEDIATELY AFTER FINAL COMPACTION AND SHAPING TO RETAIN MOISTURE FOR PROPER CHEMICAL REACTION OF THE SOIL ADDITIVE.
- (G-13) THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

- (G-22) VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE 'MULCHING-TILLER METHOD', AS SPECIFIED IN 233.04B(I) OF THE STANDARD SPECIFICATIONS.
- (G-28) AREAS ON WHICH SALVAGED TOPSOIL IS TO BE REPLACED SHALL HAVE 18-46-0 FERTILIZER APPLIED. AT THE RATE OF 150 POUNDS PER ACRE. JUST PRIOR TO THE REPLACEMENT OF SALVAGED TOPSOIL

(G-37) T.B.S.C. SURFACES SHALL BE SPRINKLED WITH WATER AND ROLLED WITH A PNEUMATIC ROLLER IN A MANNER APPROVED BY THE ENGINEER.

Traffic Control

- (G-48) CONTRACTOR SHALL NOT UTILIZE EMERGENCY VEHICLE TURNAROUNDS ON THE TURNPIKE
- (G-49) TRUCK MOUNTED ATTENUATORS WILL BE USED TO PROTECT AREAS EXPOSED TO TRAFFIC WHEN SAND FILLED IMPACT ATTENUATORS OR GUARDRAIL ARE REMOVED UNLESS BARRIER IS ALREADY IN PLACE, COST TO BE INCLUDED IN OTHER ITEMS OF WORK. THE CONTRACTOR SHALL NOT LEAVE ANY EXPOSED ENDS OF STRUCTURES. FAILURE TO ADEQUATELY PROTECT THESE TRAFFIC HAZARDS WILL RESULT IN SHUTDOWN NOTICE BEING ISSUED.
- (G-51) CONTRACTOR SHALL SUBMIT A FINAL TRAFFIC CONTROL AND CONSTRUCTION PHASING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION DESCRIBING ALL WORK PHASES FOR THE CONSTRUCTION OF THE BRIDGES AND ROADWAYS AFFECTED

- (G-53) CONTRACTOR SHALL DOCUMENT PRE-CONSTRUCTION SITE CONDITIONS BY MEANS OF PHOTOGRAPHS AND VIDEO WITH A DESIGNATED OTA REPRESENTATIVE, BEFORE THE START OF CONSTRUCTION, COST SHALL BE CONSIDERED AS INCIDENTAL AND NO SEPARATE PAYMENT SHALL BE MADE. CONTRACTOR SHALL PROVIDE THE ENGINEER A DIGITAL COPY OF THE PHOTOGRAPHS AND VIDEO AT THE PRE-WORK MEETING.
- (G-55) CONTRACTOR SHALL PAY ALL TURNPIKE FEES. TOLL COST SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
- (G-56) ALL WORK AND/OR MATERIALS NOT CLASSIFIED AS A "CONTRACT PAY ITEM" SHALL BE CONSIDERED INCIDENTAL AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT
- G-58D) CONSTRUCTION ACTIVITIES WILL BE PERMITTED ON SUNDAYS. WORK WILL BE ALLOWED DURING THE NIGHTTIME HOURS. REQUESTS FOR NIGHTTIME WORK MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL TWO (2) WEEKS PRIOR TO THE NIGHTTIME WORK.
- (G-59) GEOTECHNICAL SUBSURFACE INVESTIGATION REPORTS ARE AVAILABLE FOR REVIEW AT THE OFFICE OF WHITE ENGINEERING AND THE OFFICE OF THE OKLAHOMA TURNPIKE AUTHORITY IN OKLAHOMA CITY. THE REPORTS ARE FOR INFORMATIONAL PURPOSES ONLY. OTA CANNOT GUARANTEE THE ACCURACY OF THE SOIL CONDITIONS.
- (G-60) THE PRIME CONTRACTOR SHALL BE REPRESENTED ON SITE AT ALL TIMES. HE MUST BE PRESENT WHEN WORK IS BEING PERFORMED BY HIS SUBCONTRACTORS.
- (G-61) ALL FIELD MEASUREMENTS SHALL PREVAIL ON INSTALLATION

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed

Site work/Right-of-Way

(G-62) CONTRACTOR SHALL BE ALLOWED TO USE OTA RIGHT-OF-WAY APPROVED LOCATIONS FOR STORAGE ONE WEEK PRIOR TO BEGINNING OF WORK UNTIL THE ISSUANCE OF THE FINAL ACCEPTANCE OF ALL PUNCH LIST ITEMS. THE SITE MUST BE RESTORED TO ITS ORIGINAL CONDITION INCLUDING ALL DISASSEMBLY, REMOVAL AND SIET CLEAN UP, OF OFFICES, BUILDINGS AND OTHER FACILITIES ASSEMBLED IN THE SITE SPECIFICALLY FOR THIS CONTRACT. FAILURE TO COMPLY SHALL RESULT IN TIME CHARGES BEING RESTARTED AND ASSESSED. (G-63) IF THE CONTRACTOR ELECTS TO OPEN A GATE IN THE

UNMANNED THREE TIMES, THE GATE WILL BE PERMANENTLY

TURNPIKE TO THE COUNTY ROADS CONSTRUCTED BY THE

RIGHT-OF-WAY FENCE AS REQUIRED. WHEN THE PORTION

COMPLETED, THE TEMPORARY FENCE SHALL BE REMOVED, AND PERMANENT RIGHT-OF-WAY FENCING SHALL BE

(G-66) ALL COLD MILLED SURFACES AND TACK COAT APPLICATIONS

(G-71) ALL DIMENSIONS OF THE EXISTING BRIDGE AND ROADWAYS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE

AND DETAILS NOT SHOWN IN THE PLANS

WORKING PERIOD, SUCH THAT THE MAXIMUM ELEVATION DIFFERENTIAL AT THE CLOSE OF DAILY OPERATIONS IS NO

RESTORED OR INSTALLED IN A MANNER APPROVED BY THE

ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF

SHALL BE OVERLAID WITH HOT MIX ASPHALT WITHIN THE SAME

AND AS-BUILT, NECESSARY TO CONNECT THE NEW MATERIAL

THEREOF. REFER TO THE AS-BUILT PLANS FOR DIMENSIONS

AND SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY

(G-72) THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR TWO

(2) WEEKS PRIOR TO ALL CONSTRUCTION ACTIVITIES THAT

REQUIRES A LANE/RAMP/TOLL FACILITY CLOSURE. FAILURE

SHUTDOWN NOTICE BEING ISSUED FOR THE WORK REQUIRING THE LANE /RAMP/TOLL FACILITY CLOSURE. IF THE CONTRACTOR FAILS TO GIVE THE PRIOR NOTIFICATION, A

LANE PENALTY OF \$10,000 PER HOUR PER LANE PER MILE

WILL BE APPLIED UNTIL SUCH TIME AS THE CAPACITY IS

(G-73) ANY DEVIATION FROM THE PLANS WITHOUT PRIOR WRITTEN

INSIDE (OUTSIDE) LANES DURING CONSTRUCTION. ONLY

ROLLERS AND PÁVERS SHALL OPERATE IN AREAS ON

(G-75) ALL TRASH, DEBRIS, SPOILS, ETC. SHALL BE REMOVED DAILY.

CONSTRUCTION SITE SHALL BE KEPT IN A CLEAN, WORKMANLIKE MANNER DAILY AS DIRECTED BY THE ENGINEER.

TRAFFIC SURVEILLANCE, POLICE WILL NOT BE A PART OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

PROVIDING HIS ANTICIPATED WEEKLY SCHEDULE TO THE OTA

ON-SITE REPRESENTATIVE ONE (1) WEEK IN ADVANCE OF THE

OTA WILL COORDINATE WITH THE OKLAHOMA HIGHWAY PATROL

WORK. THE WORK SCHEDULE WILL INCLUDE THE DAYS IN WHICH TRAFFIC SURVEILLANCE, POLICE IS REQUESTED AND WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE

TO DETERMINE THE NUMBER OF OFFICERS AND SCHEDULE

PAY ITEM NOTES

THE ENGINEER. PRICE BID TOR THIS ITEM SHALL INCLUDE

THE COST OF SEDIMENT REMOVAL WHEN THE DEVICE IS HALF FULL, OR AS DIRECTED BY THE ENGINEER.

GUARDRAIL DELINEATORS SHALL BE "PEXCO I-FLEX (WHITE)"

ACCORDANCE WITH THE STD. SKT-1-00 (LATEST REVISION).

(O-1) INCLUDES AN ESTIMATED <u>558</u> CY TO BE USED FOR UNDERCUTTING AND BACKFILLING AREAS OF UNSUITABLE

(0-2) ESTIMATED QUANTITY ONLY. TO BE USED AS DIRECTED BY

(0-7) GUARDRAIL DELINEATORS SHALL BE PLACED AT 50' SPACING.

MATERIAL AS DIRECTED BY THE ENGINEER.

(0-8) THE G.E.T. GUARDRAIL END SECTIONS SHALL BE IN

DELINEATORS OR APPROVED EQUAL.

G.E.T. SYSTEM LENGTH IS 46'-10 1/2".

NOTICE WILL RESULT IN A SHUTDOWN NOTICE.

PREPARED SUBGRADE (SHOULDER).

TRAFFIC SURVEILLANCE POLICE

REQUIRED FOR THE PROJECT.

(G-74) MATERIAL TRANSFER VEHICLES AND TRUCKS SHALL USE

TO ADEQUATELY NOTIFY THE ENGINEER WILL RESULT IN A

CONTRACTOR. ALL ACCESS ROADS SHALL BE APPROVED BY

(G-64) OTA RETAINS THE RIGHT TO KEEP ANY ROADS FROM THE

OF THE PROJECT THAT REQUIRED THIS FENCE IS

THE OTA PRIOR TO CONSTRUCTION

MORE THAN TWO (2) INCHES

Lane Closure/ Ramp Closure Notes

(G-65) THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY

PAY ITEM NOTES

OKLAHOMA TURNPIKE AUTHORITY

H.E. BAILEY TURNPIKE

HEB-MC-54

03

71

SECTION

HEB

- RIGHT-OF-WAY FENCE, THE GATE SHALL EITHER BE LOCKED OR (0-14) MOWING SHALL BE IN TWO CYCLES, APPROXIMATELY MIDWAY MANNED AT ALL TIMES. IF THE GATE IS FOUND UNLOCKED OR THROUGH THE PROJECT AND AT LEAST WITHIN ONE WEEK PRIOR TO FINAL INSPECTION OR UPON DISCRETION OF THE ENGINEER
 - (R-5) AN ESTIMATED QUANTITY OF 522 C.Y. TOPSOIL TO BE RESERVED FOR REPLACEMENT OF APPROXIMATELY 5" ON COMPLETED FORESLOPES, DITCHES, AND BACKSLOPES. THIS QUANTITY IS INCLUDED IN THE EARTHWORK BALANCE, ANY ADDITIONAL EXCAVATION REQUIRED IN CUT SECTIONS TO ALLOW FOR PLACEMENT OF TOPSOIL TO FINAL GRADE, SHALL BE INCLUDED IN THE PRICE BID
 - (R-7) FOR SOLID SLAB SODDING PRICE BID TO INCLUDE COST OF 10-20-10 FERTILIZER, ESTIMATED AT 200 POUNDS PER 1000 SQ. YDS. FOR TYPE A SALVAGED TOPSOIL, PRICE BID TO INCLUDE COST OF 18-46-0 FERTILIZER, ESTIMATED AT 150 POUNDS PER ACRE.
 - (R-9) ESTIMATED AT 40 GALLONS PER SQ. YD. OF SODDING AND/OR SPRIGGING
 - (R-11) THE QUANTITIES ESTIMATED FOR TEMPORARY EROSION AND SEDIMENT CONTROL IS 7 ACRES.
 - (R-25) ESTIMATED AT 120 LBS. PER CU. FT.
- (R-28) PRIME COAT SHALL BE APPLIED AT AN ESTIMATED RATE OF 0.35 GAL. PER SQ. YD. WHEN APPLIED TO SUBGRADE, AND 0.25 GAL. PER SQ. YD. WHEN APPLIED TO AGGREGATE BASE. THE ACTUAL CUTBACK PRIME COAT REQUIRED FOR PLACEMENT OPERATIONS WILL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, BOTH SURVEYED BE DETERMINED BY THE CONTRACTOR, AND SHALL CONSIDER THE RESIDUE FROM DISTILLATION PERCENTAGE SHOWN IN SECTION 708.03 OF THE STANDARD SPECIFICATIONS.
 - (R-32) ESTIMATED AT 112 LBS. PER SQ. YD. PER 1" THICK.
 - (R-48) INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.
 - (R-49) TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER
 - (R-50) MATERIALS REMOVED SHALL NOT BE MEASURED FOR PAYMENT UNDER SECTION 202.06 UNCLASSIFIED EXCAVATION.
 - (R-52) INCLUDE 2% FOR GROUND MEASURMENT.
 - (R-53) ALL GATES AND GATE END POSTS FOR STRANDED WIRE FENCE (SWF) SHALL BE CONSTRUCTED AT THE SAME WIDTH AS THE EXISTING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER

SPECIAL NOTES

- (SP-1) BIDDERS SHALL FULLY INFORM THEMSELVES OF THE NATURE OF THE WORK AND CONDITION UNDER WHICH IT WILL BE PERFORMED. THE CONTRACTOR SHALL ADOPT METHODS CONSISTENT WITH GOOD CONSTRUCTION PRACTICE AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING FACILITIES. ANY DAMAGE TO THE EXISTING REMAINING IN PLACE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.
- (SP-2) BORROW SOILS SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS. THE SOILS MAPPED WITHIN CLOSE PROXIMITY TO THE PROJECT TYPICALLY HAVE ORGANIC SURFACE LAYERS EXTENDING TO DEPTHS DOWN TO 9 INCHES. LAYERS MUST NOT BE INCLUDED IN THE BORROW SOILS FOR THE ROADWAY EMBANKMENT. THEY MUST BE REMOVED AND STOCKPILED SEPARATELY FROM THE APPROVED BORROW. ALL BORROW SOURCES MUST BE APPROVED BY THE ENGINEER PRIOR TO USE ON THE PROJECT.
- (SP-3) THE SOILS MAPPED WITHIN CLOSE PROXIMITY TO THE PROJECT TYPICALLY HAVE ORGANIC SURFACE LAYERS EXTENDING TO DEPTHS DOWN TO 9 INCHES. THESE LAYERS MUST NOT BE INCLUDED IN THE UNCLASSIFIED EXCAVATION FOR USE IN THE ROADWAY GRADING AREA.

OKI	LAHOMA TURNPIKE AUTHORI H.E. BAILEY TURNPIKE	TY
PLAN SCALE N/A PROFILE SCALE HORIZONTAL	PAY ITEMS AND GENERAL NOTES (ROADWAY)	
VERTICAL	Smith Roberts Baldischwiler, LLC	SECTION

CONTRACT NO. HEB-MC-54

DATE: 02-09-2015 SHEET NO. 03

(0-12) THIS ITEM INCLUDES COST TO FURNISH AND APPLY TACK COAT IN ACCORDANCE WITH STANDARD SPECIFICATION 407 BETWEEN ASPHALT LIFTS. OBTAIN APPROVAL FROM THE OSR OF THE CLEANLINESS OF ALL MILLED SURFACES BEFORE APPLYING THE TACK COAT.

REMOVED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

ANY DAMAGE CAUSED BY THE CONTRACTOR TO ANY STRUCTURES, ROADWAY SURFACES, STRIPING, RAISED PAVEMENT MARKERS, GUARDRAIL, SLOPES, AND SIGNS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER BARRICADES, LIGHTS, AND SIGNING WITHIN THE LIMITS OF CONSTRUCTION. ALL CONSTRUCTION SIGNING WILL BE DONE ACCORDING TO STANDARDS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION". AND AS SHOWN ON TCS STANDARD (TC-70). THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL MEET ODOT'S "QUALITY STANDARDS FOR TEMPORARY TRAFFIC CONTROL DEVICES.* CHANNELIZING DEVICES SHALL HAVE A MINIMUM HEIGHT OF 36 INCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE TEMPORARY TRAFFIC CONTROL DEVICES, AND SHALL BE RESPONSIBLE FOR REPAIRING ORREPLACING ANY DEVICE DURING CONSTRUCTION.

ALL WASTE MATERIAL AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN AN AREA APPROVED BY THE ENGINEER. NO PAYMENT SHALL BE MADE FOR THE DISPOSAL OF THIS MATERIAL

ALL FIELD MEASUREMENTS PREVAIL ON INSTALLATION AND REMOVAL.

THE ITEMS THAT ARE TO BE REMOVED AND/OR RESET SHALL BE HANDLED WITH CARE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OCCURRING DURING THESE OPERATIONS

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE AREAS UNDER THE BRIDGES FROM FALLING DEBRIS AND BE SOLELY RESPONSIBLE FOR SAFEGUARDING THESE AREAS.

TRAFFIC CONSTRUCTION PAY QUANTITY NOTES

- THE CONTRACTOR SHALL FURNISH AND INSTALL SUCH LIGHTS, SIGNS, BARRICADES, AND PROVIDE FLAGGERS NECESSARY FOR THE CONTROL, SAFETY, AND MAINTENANCE OF TRAFFIC WHEN INSTALLING, RELOCATING OR DELIVERING PORTABLE LONGITUDINAL BARRIER.
- (TC-2) QUANTITY INCLUDES SUFFICIENT LENGTH OF PORTABLE LONGITUDINAL BARRIER TO PROVIDE FOR THE LONGEST SECTION SHOWN ON THE PLANS. THIS SAME BARRIER WILL BE USED ON OTHER DETOUR PHASES.
- (TC-13) A PART, OR ALL, OF THIS ITEM IS INTENDED FOR REPLACEMENT OF REMOVED EXISTING CONFLICTING
- (TC-14) SEE STANDARD DRAWING PM1-1, PM2-1, PM3-1, PM4-1, PM5-1, PM6-1, PM7-1, PM8-1(LATEST REVISION). A PART, OR ALL, OF THE QUANTITY SHOWN IS TO BE USED AS FINAL PAVEMENT MARKING.
- (TC-17) INCLUDES AN ESTIMATED 1.500 L.F. (PAINT) (4" WIDE) WHITE 500 L.F. (PAINT)(4" WIDE) YELLOW STRIPE
- (TC-20) ALL STRIPING TO BE PLACED ON TEMPORARY SURFACES OR ON SURFACES SCHEDULED TO BE REMOVED SHALL BE DONE WITH PAINT UNLESS OTHERWISE NOTED ON THE PLANS OR STANDARD DRAWINGS. TEMPORARY PAVEMENT MARKINGS PLACED ON FINISHED PAVEMENT OR EXISTING PAVEMENT TO REMAIN IN PLACE SHALL USE ONE OF THE FOLLOWING METHODS
 - * REMOVABLE PAVEMENT MARKING TAPE
 - * CLASS A PAVEMENT MARKERS
- (TC-21) INCLUDED IN THE COST OF THIS ITEM SHALL BE INSTALLATION, MAINTENANCE, AND REMOVAL. THIS ITEM
- (TC-22) AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING REMOVAL SHALL INCLUDE THE COST OF REMOVING STRIPE.ARROWS.WORDS AND SYMBOLS.AS SHOWN IN THE PLANS. THESE ITEMS MAY CONSIST OF PLASTIC, PAINT, OR NON-REMOVABLE MARKING TAPE.
- (TC-23) QUANTITY SHOWN FOR THIS ITEM INCLUDES THOSE SIGNS WHICH COMPRISE THE ROUTE MARKER ASSEMBLIES USED TO INDICATE THE DETOUR ROUTE.
- (TC-25) ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS. AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS REQUIRED FOR COMPLETION OF THE PROJECT.

ALL SIGNS AND BARRICADES, WHICH ARE SHOWN WITH TYPE 'A' LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS

(TC-26) ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS. AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE PROJECT

ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE "A" LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING

(TC-33) ALL CONSTRUCTION WORK ZONE SIGNS SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956 (LATEST REVISION) THE MANUFACTURER SHALL FURNISH A TYPE "D" CERTIFICATION IN ACCORDANCE WITH O.D.O.T. STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR

- (TC-39) THE CONTRACTOR SHALL PROVIDE A PERSON, 24 HOURS A DAY, SEVEN DAYS A WEEK, AT THE CONSTRUCTION SITE TO MAINTAIN AND KEEP ALL TRAFFIC CONTROL DEVICESIN POSITION ANYTIME TRAFFIC IS DIRECTED AWAY FROM THE NORMAL TRAFFIC LANES OR ANYTIME THE ENGINEER DEEMS IT NECESSARY
- (TC-52) ANY USED CHANGEABLE MESSAGE SIGNS OR TRUCK MOUNTED ATTENUATORS TO BE PLACED ON THIS PROJECT SHALL BE SUBJECT TO INSPECTION AND APPROVAL, BY THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, TO ASSURE THAT THEY ARE IN GOOD WORKING CONDITION, PRIOR TO PLACEMENT ON THE PROJECT
- ANY DAMAGE TO A FINISHED OR EXISTING SURFACE RESULTING FROM THE CONTRACTOR'S NEGLIGENCE IN THE REMOVAL OF CONSTRUCTION ZONE PAVEMENT MARKERS OR CHANNELIZING DEVICES AND THE BITUMINOUS ADHESIVE USED IN THEIR INSTALLATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION
- (TC-75) TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE THE SAME DAY THAT EXISTING PAVEMENT MARKINGS ARE REMOVED FROM ANY ROADWAY OPEN TO TRAFFIC. ALSO, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF FINAL STRIPING
- (TC-76) ANY TRUCK MOUNTED ATTENUATOR USED ON THIS PROJECT SHALL HAVE PASSED ALL MANDATORY AND OPTIONAL TESTS LISTED IN NCHRP 350, TL-3 CRITERIA. THIS ITEM IS TO BE USED WHERE SHOWN IN THE STANDARD DRAWINGS OR AT THE DISCRETION OF THE ENGINEER ON SHADOW VEHICLES PROTECTING THE WORK AREAS AND
- (TC-77) TRUCK MOUNTED ATTENUATORS ARE TO BE INSTALLED ON NON-STATE OWNED TRUCKS HAVING A MINIMUM GROSS WEIGHT RATING OF 15,000 POUNDS. EACH OF THESE TRUCKS SHALL ALSO BE EQUIPPED WITH AN ARROW
- (TC-84) 210 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY. BASED ON THE CURRENT ODOT STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
- (TC-85) THESE SIGNS MUST BE ON THE OKLAHOMA DEPARTMENT OF TRANSPORTATION LIST OF APPROVED CHANGEABLE MESSAGE SIGNS. FOR AN APPROVED LIST, GO TO THE QUALIFIED PRODUCT LIST WEBSITE AT http://www.okladot.state.ok.us/traffic/qpl/index.php.

TRAFFIC SIGNING PAY QUANTITY NOTES

- (TS-24) QUANTITY SHOWN INCLUDES 1,000 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) AND 1,000 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF FOUR INCH (4") WIDE
- (TS-25) QUANTITY SHOWN INCLUDES 5,000 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE), 1,200 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(BLACK) AND 3,800 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF SIX INCH (6") WIDE TRAFFIC STRIPE.
- (TS-33) INCLUDED IN THIS PAY ITEM IS THE REMOVAL OF ANY EXISTING SIGNS TO BE REPLACED BY NEW ASSEMBLIES AND THE REMOVAL OF ANY EXISTING SIGNS THAT WILL BE IN CONFLICT WITH THE NEW ROADWAY OR NEW SIGNAGE.
- (TS-35) SEE STANDARD DRAWING IA1-1-(LATEST REVISION), OR MIA1-1-(LATEST REVISION) FOR CONCRETE PAD DESIGN.

TRAFFIC SPECIAL PAY QUANTITY NOTES

- (SP-1) SIGN PLACEMENT LOCATIONS WILL BE AT THE DISCRETION OF THE ENGINEER.
- (SP-2) PRICE BID FOR THIS ITEM INCLUDES THE INSTALLATION AND MAINTENANCE OF THE REFLECTORS ON THE BARRIER
- (SP-3) PRICE BID FOR THIS PAY ITEM INCLUDES THE INITIAL PLACEMENT AND SUBSEQUENT REPLACEMENT DURING CONSTRUCTION TO MAINTAIN THE ADEQUATE DELINEATIONS.
- (SP-4) TYPE 'C' LIGHTS ARE NOT REQUIRED
- (SP-5) CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ON THE PROJECT 7 DAYS IN ADVANCE OF THE START DATE.

CABLE BARRIER SPECIAL PAY QUANTITY NOTES

- (SP-6) PRICE BID FOR THIS ITEM CONSISTS OF REMOVAL OF EXISTING CABLE BARRIER SYSTEM. CONTRACTOR SHALL REMOVE, SPOOL, COLLECT, AND STORE ALL CABLE BARRIER HARDWARE. THE MATERIALS SHALL BE STORED AT A LOCATION DETERMINED BY THE ENGINEER TO BE USED ON THIS PROJECT. ALL CONCRETE FOOTINGS ARE TO BE REMAIN INPLACE. ALL OPEN POST SOCKETS SHALL BE COVERED.
- PRICE BID FOR THIS ITEM CONSISTS OF INSTALLATION OF CABLE BARRIER SYSTEM AND HARDWARE (CAPS, POST, TURN BUCKLE, ETC.). CONTRACTOR SHALL USE THE MATERIAL REMOVED FROM THE EXISTING CABLE BARRIER SYSTEM, COST TO INCLUDE ANY ADDITIONAL HARDWARE NEEDED TO COMPLETE THE INSTALLATION. CONTRACTOR SHALL SWAGE NEW FITTINGS FOR THE INSTALLATION OF NEW SECTION IF DEEMED NECESSARY BY THE ENGINEER. PRICE BID FOR THIS ITEM ALSO INCLUDES COST OF NEW SWAGING FOR CABLE BARRIER SYSTEM.

PAY QUANTITY NOTES

- THIS ITEM IS TO BE USED AS APPROVED BY THE ENGINEER TO DIRECT TRAFFIC DURING THE VARIOUS STAGES OF CONSTRUCTION. CONTRACTOR MAY USE FLEX TABS OR CLASS A PAVEMENT MARKERS AT HIS OPTION. CONTRACTOR SHALL USE FLEX-TABS OR CLASS A PAVEMENT MARKERS FOR TEMPORARY MARKINGS AS SHOWN ON THE PLANS AND ON ALL FINISHED SURFACES. PAYMENT WILL BE BY THE LINEAR FOOT OF PAINT REGARDLESS OF THE ITEM USED. INCLUDED IN THE COST OF THIS ITEM SHALL BE INSTALLATION, MAINTENANCE, AND REMOVAL. THIS ITEM SHALL
- (O-11) PLAN QUANTITIES ARE BASED ON THE PLAN SEQUENCE OF CONSTRUCTION. FINAL PAYMENT WILL BE BASED ON THE ACTUAL AMOUNT USED IN ACCORDANCE WITH THE APPROVED TRAFFIC CONTROL PLAN

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed OKLAHOMA TURNPIKE AUTHORITY H.E. BAILEY TURNPIKE

HEB-MC-5

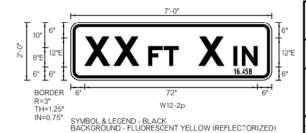
HEB

H. E. B.	ALLEY TURNPIKE BRIDGE #16.45B REPLACEMENT		HEB-MC-54
	PAY QUANTITIES		
PART "	A* - TRAFFI C		
ITEM	DESCRI PTI ON	UNI T	QUANTI TY
619(B)	REMOVAL OF CABLE BARRIER (SP-6)	LF	2,000.00
628(B)	HIGH-TENSION CABLE BARRIER (TL-4) (SP-7)	LF	2,000.00
805(A)	REMOVAL OF (EXISTING SIGNS)	LSUM	1.00
805(D)	REMOVE AND RESET SAND FILLED IMPACT ATTENUATION MODULE	LSUM	1.00
850(A)	SHEET ALUMINUM SIGNS (TS-33)	SF	62.00
851(C)	SQUARE TUBE POST	LF	59.00
856(A)	TRAFFIC STRIPE (MULTI-POLYMER) (4" WIDE) (TS-24)	LF	2,000.00
856(A)	TRAFFIC STRIPE (MULTI-POLYMER) (6" WIDE) (TC-13,14)(TS-25)	LF	10,000.00
857(A)	CONSTRUCTION TRAFFIC STRIPE (PAINT) (SP-3)(TC-17,20,21,61,70,75)(O-10)	LF	20,000.00
857(F)	PAVEMENT MARKING REMOVAL (TC-22,70)	LF	2,000.00
876(A)	TRUCK MOUNTED ATTENUATOR (TC-52,76,77,84)	SD	420.00
877(A)	DELIVER PORTABLE LONGITUDINAL BARRIER (SP-2)(TC-1,2)(O-11)	LF	3,740.00
877(B)	RELOCATION OF PORT. LONGITUDINAL BARRIER (SP-2)(TC-1,2)(O-11)	LF	7,480.00
878(C)	MODULAR GLARE SCREEN (TEMPORARY) (TC-26,84)	SD	18,940.00
880(A)	ARROW DISPLAY (TYPE C) (TC-26,84)	SD	420.00
880(J)	(SP) CONSTRUCTION TRAFFIC CONTROL (TC-23,25,33,61,75)(SP-4)	LSUM	1.00
880(K)	SURVEILLANCE OF TRAFFIC CONTROL (TC-39,70,84)	SD	210.00
882(A)	(SP) CHANGEABLE MESSAGE SIGN (SP-1,5)(TC-26,52,85)	SD	434.00

GENERAL CONSTRUCTION NOTES

- (G-52) LANE LINES, AT A MINIMUM, SHALL BE ESTABLISHED AT ALL TIMES DURING CONSTRUCTION
- CONTRACTOR SHALL DETERMINE FINAL VERTICAL CLEARANCE AT ALL TPU BRIDGES WITHIN THE LIMITES OF THE PROJECT. WITH THE ON-SITE REPRESENTATIVE, AND POST SAME AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN OTHER ITEMS OF WORK
- WHEN AFFECTING TRAFFIC THUR A PIKEPASS "READ LANE", NOTIFY FERDINAND KIBIC (TOLL DIVISION) AT (405) 425-7407, A MINIMUM OF 48 HOURS IN ADVANCE. IF NO ANSWER LEAVE A MESSAGE. LEAVING A MESSAGE DOES NOT CONSTITUTE APPROVAL FOR LANE CLOSURES.
- (G-72) THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR TWO (2) WEEKS PRIOR TO ALL CONSTRUCTION ACTIVITIES THAT REQUIRES A LANE/RAMP/TOLL FACILITY CLOSURE. FAILURE TO ADEQUATELY NOTIFY THE ENGINEER WILL RESULT IN A SHUTDOWN NOTICEBEING ISSUED FOR THE WORK REQUIRING THE LANE/RAMP/TOLL FACILITY CLOSURE. IF THE CONTRACTOR FAILS TO GIVE THE PROPER NOTIFICATION. A LANE RENTAL PENALTY OF \$10,000 PER HOUR PER LANE PER MILE WILL BE APPLIED UNTIL SUCH TIME AS THE CAPACITY IS RESTORED
- (G-73) ANY DEVIATION FROM THE PLANS WITHOUT PRIOR WRITTEN NOTICE WILL RESULT IN A SHUTDOWN NOTICE.

		SUMMARY	OF SIG	ITMAUD NE	TIES FOR RURAL AREA
				SIGN AREA	
			SQ POST		
			2.5"	SHEET 850(A)	
ITEM NO.	APPROXIMATE LOCATION	SIGN DESIGNATION	Α	S.F.	REMARKS
1	MOUNT ON BRDG.	W12-2p(X FT X IN)		14.00	MESSAGE SHALL BE DETERMINED BY FIELD SURVEY, (G-57)
2	MOUNT ON BRDG.	W12-2p(X FT X IN)		14.00	MESSAGE SHALL BE DETERMINED BY FIELD SURVEY, (G-57)
3	IN FRONT OF PIER.	OM-3E(L)	14.50	8.00	SIGN TO BE MOUNTED IN FRONT OF BRIDGE PIER
4	IN FRONT OF PIER.	OM-3E(L)	14.50	8.00	SIGN TO BE MOUNTED IN FRONT OF BRIDGE PIER
5	57+86 RT.	W8-13E	15.00	9.00	REMOVE EXISTING SIGN REPLACE WITH NEW ASSEMBLY
6	84+55 LT.	W8-13E	15.00	9.00	REMOVE EXISTING SIGN REPLACE WITH NEW ASSEMBLY
			59	62.00	



OKLAHOMA TURNPIKE AUTHORITY H.E. BAILEY TURNPIKE

LANSCALE PAY ITEMS AND N/A **GENERAL NOTES** ROFILE SCALE (TRAFFIC) HORIZONTAL VERTICAL Smith Roberts Baldischwiler, LLC CONTRACT NO. HEB-MC-54

SHEET NO. 04

DATE: 12/10/2014

GENERAL BRIDGE NOTES

COMPLY WITH THE REQUIREMENTS OF THE 2010 OKLAHOMA STANDARD SPECIFICATIONS FOR TURNPIKE CONSTRUCTION, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL PROVISIONS.

ALL DIMENSIONS OF THE EXISTING BRIDGE AND ROADWAYS SHOWN ON THE PLANS ARE APPROXIMATE ONLY THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, BOTH SURVEYED AND AS-BUILT, NECESSARY TO CONNECT THE NEW MATERIAL AND SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY THEREOF. REFER TO THE AS-BUILT PLANS FOR DIMENSIONS AND DETAILS NOT SHOWN IN THE PLANS.

BIDDERS SHALL FULLY INFORM THEMSELVES OF THE NATURE OF THE WORK AND CONDITION UNDER WHICH IT WILL BE PERFORMED. THE CONTRACTOR SHALL ADOPT METHODS CONSISTENT WITH GOOD CONSTRUCTION PRACTICE AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING FACILITIES ANY DAMAGE TO THE EXISTING REMAINING IN PLACE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER. AS-BUILT PLANS FOR THE BRIDGE CAN BE REFERENCED FROM OTA'S FTP SITE: FTP://FTP.PIKEPASS.COM/ORIGINALCONSTRUCTION CONTRACTS/HEBAILEY/CONT218(3)BRIDGES-TPU16.45B

REMOVAL OF EXISTING BRIDGE NO. 16.45B

ITEM "REMOVAL OF EXISTING BRIDGE STRUCTURE" CONSISTS OF REMOVAL AND DISPOSAL OF A

37.5'-44'-44'-37.75' STEEL I-BEAM STRUCTURE x 28'-0" CLEAR ROADWAY WIDTH.
THE REMOVAL OF THE EXISTING STRUCTURE SHALL BE IN ACCORDANCE WITH SECTION 619.04.B.2 OF THE STANDARD SPECIFICATIONS AND IN A MANNER APPROVED BY THE ENGINEER. THE SALVAGED SUPERSTRUCTURE BEAMS FROM THE EXISTING BRIDGE WILL BECOME THE PROPERTY OF THE CONTRACTOR.

THE EXISTING STRUCTURAL STEEL MAY CONTAIN LEAD-BASED PAINT. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS AND FOLLOW ALL SPECIFICATIONS AND REGULATIONS IN HANDLING AND TRANSPORTING LEAD-BASE PAINT

THE CONTRACTOR SHALL REMOVE THE EXISTING BARRIER WALL, ABUTMENTS, SLOPE WALLS, PIER CAPS AND COLUMNS TO THE TOP OF THE SPREAD FOOTINGS.

PRIOR TO REMOVAL OF EXISTING BRIDGE, THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER THAT ALL UTILITIES HAVE BEEN REMOVED FROM EXISTING BRIDGE.

PILE DRIVING EQUIPMENT-

USE A PILE DRIVING HAMMER OF THE SIZE AND TYPE CAPABLE OF CONSISTENTLY DELIVERING THE EFFECTIVE DYNAMIC ENERGY TO DRIVE THE PILES TO THE REQUIRED TIP ELEVATION AND TO ACHIEVE AN AXIAL LOAD RESISTANCE EQUAL TO OR GREATER THAN THE FACTORED PILE REACTION WITHOUT EXCEEDING THE LIMITATIONS SET ON THE ALLOWABLE DRIVING STRESSES IN ACCORDANCE WITH SUBSECTION 514.03.A.(2) OF

ABUTMENT PILING -

PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270 (GRADE 50) FOR STEEL PILING.

THE FACTORED REACTION FOR EACH HP 12x53 PILE AT THE ABUTMENTS IS 113.0 TONS.

THE FOLLOWING FORMULA (GATES EQUATION) SHALL BE USED TO DETERMINE THE AXIAL LOAD RESISTANCE OF THE DRIVEN FOUNDATION PILES:

AXIAL LOAD RESISTANCE = PHI * [SQRT (E) * 0.875 * LG (10 * N) - 50] WHERE: PHI = RESISTANCE FACTOR OF 0.4

- E = ENERGY PRODUCED BY THE HAMMER PER BLOW IN FOOT-POUNDS. FOR GRAVITY AND SINGLE ACTING DIESEL HAMMERS, THE VALUE IS BASED ON THE ACTUAL RAM STROKE OBSERVED IN THE FIELD AND MEASURED IN FEET MULTIPLIED BY THE RAM WEIGHT IN POUNDS
- ${\sf N}$ = AVERAGE NUMBER OF HAMMER BLOWS PER INCH OF PILE PENETRATION FOR THE LAST 10 TO 20 BLOWS DELIVERED TO THE PILE HEAD.

SQRT = SQUARE ROOT

LG = LOGARITHM TO THE BASE 10

THE ABOVE FORMULA IS ONLY APPLICABLE WHEN CERTAIN CONDITIONS APPLY: THE PILE DRIVING HAMMER HAS A FREE FALL (GRAVITY & SINGLE ACTING HAMMERS ONLY); THE HEAD OF THE PILE IS NOT BROOMED, CRUSHED OR OTHERWISE DAMAGED; THE PENETRATION IS QUICK AND UNIFORM; THERE IS NO APPRECIABLE REBOUND OF THE HAMMER; AND A FOLLOWER IS NOT USED.

THE NUMBER OF BLOWS PER INCH OF PILE PENETRATION MAY BE MEASURED EITHER DURING INITIAL DRIVING OR BY RE-DRIVING WITH A WARM HAMMER OPERATED AT FULL ENERGY AFTER A PILE SET PERIOD, AS DETERMINED BY THE ENGINEER.

IF WATER JETS ARE USED IN CONNECTION WITH THE DRIVING, DETERMINE THE AXIAL LOAD RESISTANCE BY THE FORMULA SHOWN ONLY AFTER THE JETS HAVE BEEN WITHDRAWN.

DRILLED SHAFTS

THE CASING METHODS, OUTLINED IN SECTION 516.04.C.1.C OF THE STANDARD SPECIFICATIONS, MAY BE REQUIRED TO ADVANCE THE DRILLED SHAFT TO THE FINAL BEARING ELEVATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT THE PROPER METHODS REQUIRED TO INSTALL THE DRILLED SHAFTS.

CONCRETE -

ALL CONCRETE SHALL BE PLACED IN THE DRY. ALL EXPOSED EDGES SHALL HAVE A ¾" CHAMFER UNLESS NOTED OR SHOWN ON THE PLANS. ALL CHAMFER STRIPS SHALL BE SIZED LUMBER. ALL CLASS A AND CLASS AA CONCRETE SHALL BE AIR-ENTRAINED.

ALL CONCRETE IN THE SUPERSTRUCTURE, APPROACH SLABS & CONCRETE PARAPET SHALL BE CLASS "AA" CONCRETE, F'C = 4,000 P.S.I. MINIMUM STRENGTH AT 28 DAYS. ALL CONCRETE IN THE SUBSTRUCTURE SHALL BE CLASS "A" CONCRETE, F'C = 3,000 P.S.I. MINIMUM STRENGTH AT 28 DAYS. ALL CONCRETE IN THE DRILLED SHAFTS SHALL BE CLASS "AA" CONCRETE, F'C = 4,000 P.S.L. MINIMUM STRENGTH AT 28 DAYS

CONCRETE SURFACES UNDER ALL BEAM SUPPORT (BEARING ASSEMBLIES) SHALL BE GROUND WITH A CARBORUNDUM BRICK BEFORE PLACEMENT OF BEARING ASSEMBLY TO SECURE FULL BEARING OF ASSEMBLY ON CONCRETE. BEFORE BEARING ASSEMBLIES ARE SET, THE CONTRACTOR WILL CHECK BEARING SURFACES WITH REGARD TO LEVELNESS. THE MAXIMUM PERMISSIBLE SLOPE SHALL BE 0.5%, WHICH SHOULD BE CHECKED ALONG AN AXIS PERPENDICULAR AND PARALLEL TO THE BEAM LINE. SLOPES EXCEEDING 0.5% SHALL BE CORRECTED IN A MANNER APPROVED BY THE ENGINEER.

WHEN VIBRATING CONCRETE CONTAINING EPOXY COATED REINFORCING STEEL, THE VIBRATOR SHALL BE DESIGNED FOR USE WITH EPOXY COATED REINFORCING STEEL.

PROVIDE STRUCTURAL STEEL FOR DIAPHRAGM BOLTS, PLATE WASHERS AND BEVELED SPACERS IN ACCORDANCE WITH AASHTO M270 (ASTM A709), GRADE 50W (WEATHERING STEEL, CHARPY V-NOTCH TESTING NOT REQUIRED). THE CONTRACTOR MAY SUBSTITUTE A #10 REINFORCING BAR IN ACCORDANCE WITH AASHTO M31, GRADE 60, AND THREADED AT THE ENDS AS SHOWN IN THE PLANS AT NO ADDITIONAL COST TO THE AUTHORITY. PROVIDE HEX NUTS IN ACCORDANCE WITH AASHTO M291 (ASTM A563).

PAINT EXPOSED DIAPHRAGM BOLTS, PLATE WASHERS, BEVELED SPACERS AND HEX NUTS WITH TWO (2) COATS OF ZINC-RICH PAINT (6 MIL MINIMUM THICKNESS) AFTER ASSEMBLY. INCLUDE ALL COST OF DIAPHRAGM BOLTS, PLATE WASHERS, BEVELED SPACERS AND HEX NUTS IN THE CONTRACT UNIT PRICE FOR STRUCTURAL STEEL.

PROVIDE STRUCTURAL STEEL FOR ANCHOR PLATES, CONTACT PLATES, AND BUILT-UP CONTACT ANGLES IN ACCORDANCE WITH ASTM A240 (AUSTENITIC STAINLESS STEEL, TYPE 316, CHARPY V-NOTCH TESTING NOT REQUIRED). FOR ANCHOR BOLTS, PROVIDE CONTINUOUSLY THREADED BARS IN ACCORDANCE WITH ASTM A320, CLASS 2, GRADE BBM (AUSTENITIC STAINLESS STEEL, TYPE 316, CHARPY V-NOTCH TESTING NOT REQUIRED). USE AUSTENITIC STAINLESS STEEL NUTS AND WASHERS CONFORMING TO ASTM A194, GRADE 8M AND ASTM A320, RESPECTIVELY. PERFORM ALL WELDING CONSISTENT WITH PROCEDURES FOR STAINLESS STEEL.

ALL REINFORCING STEEL SHALL HAVE 2" CLEARANCE UNLESS SHOWN OR NOTED OTHERWISE. ALL REINFORCING STEEL SHALL BE DEFORMED BARS, COLD BENT WITH NO WELDS. BAR BEND DIMENSIONS ARE OUT TO OUT, UNLESS NOTED OTHERWISE. UNLESS OTHERWISE SPECIFIED IN THE CONCRETE DOCUMENTS, ALL REINFORCING STEEL SHALL CONFORM TO AASHTO M31 (ASTM A615), GRADE 60

FIFLD WELDING OF CROSSING REINFORCING BARS SHALL NOT BE PERMITTED. TACK WELDING OF REINFORCING BARS SHALL BE PROHIBITED IN ALL CASES.

ALL LONGITUDINAL TOP REINFORCING IN THE BRIDGE SLAB SHALL BE SUPPORTED ON APPROVED CONTINUOUS METAL HIGH CHAIRS SPACED AT 4'-O" MAXIMUM ON CENTERS AND THE BOTTOM LAYER OF REINFORCING STEEL SHALL BE SUPPORTED ON APPROVED METAL SLAB BOLSTERS SPACED AT 4'-O" MAXIMUM ON CENTERS.

(SP) FIXED BEARING ASSEMBLIES -

PROVIDE AND INSTALL FIXED BEARING ASSEMBLIES OF THE SIZE, SHAPE AND LOCATION AS SPECIFIED OR AS SHOWN IN THE PLANS.

ALL COST OF PROVIDING AND INSTALLING THE FIXED BEARING ASSEMBLIES AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF STEEL REINFORCED ELASTOMERIC BEARING PADS, ANCHOR PLATES, BUILT-UP CONTACT ANGLES, ANCHOR BOLTS, NUTS, WASHERS, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "STAINLESS STEEL FIXED BEARING ASSEMBLY"

(SP) EXPANSION BEARING ASSEMBLIES -

PROVIDE AND INSTALL EXPANSION BEARING ASSEMBLIES OF THE SIZE, SHAPE AND LOCATION AS SPECIFIED OR AS SHOWN IN THE PLANS.

ALL COST OF PROVIDING AND INSTALLING THE EXPANSION BEARING ASSEMBLIES AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF STEEL REINFORCED ELASTOMERIC BEARING PADS, ANCHOR PLATES, BUILT-UP CONTACT ANGLES, ANCHOR BOLTS, NUTS, WASHERS, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "STAINLESS STEEL EXPANSION BEARING ASSEMBLY".

CONCRETE INTERMEDIATE DIAPHRAGMS -

ONCE THE CONCRETE HAS BEEN PLACED FOR THE CONCRETE INTERMEDIATE DIAPHRAGMS, WAIT A MINIMUM OF 24 HOURS BEFORE REMOVING THE SIDE FORMS. DO NOT REMOVE THE BOTTOM FORM FOR A MINIMUM OF 3 DAYS, OR AT THE DISCRETION OF THE ENGINEER. THIS TIME CAN BE SHORTENED IF THE CONCRETE HAS ATTAINED 80% OF THE SPECIFIED COMPRESSIVE STRENGTH. DO NOT PLACE THE CONCRETE FOR THE DECK SLAB OR APPLY OTHER MASSIVE LOADS TO THE BEAMS OR DIAPHRAGMS UNTIL THE CONCRETE IN THE DIAPHRAGMS HAS BEEN IN PLACE FOR A MINIMUM OF 10 DAYS, OR AT THE DISCRETION OF THE ENGINEER. THIS TIME MAY BE SHORTENED IF THE CONCRETE HAS ATTAINED 80% OF THE SPECIFIED COMPRESSIVE STRENGTH.

EXPANSION JOINTS -

THE EXPANSION JOINT LOCATED AT THE PIER SHALL BE CONSTRUCTED AS SHOWN IN THE PLANS AND IN A MANNER APPROVED BY THE ENGINEER.

ALL COSTS INCLUDING THE COST OF MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED OR SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER LINER FOOT OF "SEALED EXPANSION JOINTS".

CONCRETE DECK SLAB PLACEMENT -

EPOXY-COAT OR GALVANIZE STEEL ITEMS USED TO FACILITATE CONSTRUCTION, SUCH AS DECK FORM HANGERS, TY-BAR CLIPS, INSERT WELD ANCHORS, OR OTHER APPURTENANCES, THAT WILL REMAIN IN PLACE IN THE DECK SLAB. EPOXY-COAT IN ACCORDANCE WITH AASHTO M284 OR GALVANIZE IN ACCORDANCE WITH AASHTO

IN THE EVENT OF AN EMERGENCY, HALT THE PLACEMENT OF CONCRETE BY FORMING A CONSTRUCTION JOINT MADE PERPENDICULAR TO THE DIRECTION OF TRAFFIC OR AS DIRECTED BY THE ENGINEER. DO NOT PLACE ANY HEAVY EQUIPMENT ON THE FINISHED DECK SLAB WITHIN 5 FEET OF ANY CONSTRUCTION JOINT UNTIL CONCRETE IS IN PLACE ON BOTH SIDES OF THE RESPECTIVE JOINT AND AT LEAST 48 HOURS HAS ELAPSED SINCE CONCRETE

SEAL ALL DECK SLAB CONSTRUCTION JOINTS WITH HIGH MOLECULAR WEIGHT METHACRYLATE IN ACCORDANCE WITH SECTION 523 OF THE SPECIFICATIONS. INCLUDE ALL COST OF EQUIPMENT AND LABOR FOR THE INSTALLATION OF THE HIGH MOLECULAR WEIGHT METHACRYLATE SEALER IN THE CONTRACT UNIT PRICE OF "SEALER CRACK PREPARATION". INCLUDE ALL COST OF THE HIGH MOLECULAR WEIGHT METHACRYLATE SEALER IN THE CONTRACT UNIT PRICE OF "SEALER RESIN". THE AUTHORITY WILL NOT MEASURE THE PREPARATION AND SEALER OF EMERGENCY CONSTRUCTION JOINTS FOR PAYMENT.

CONCRETE DECK FINISHING -

THE BRIDGE DECK FOR THIS PROJECT IS TO BE FINISHED WITH A MECHANICAL TYPE FINISHING MACHINE. OVERHANGING SLAB FORMS WILL BE REQUIRED TO BE OF SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF THE CONCRETE, FORMS, FINISHING MACHINE AND OTHER CONSTRUCTION LOADS. PRIOR TO FINISHING OPERATIONS, A PROPOSAL STIPULATING THE TYPE OF FINISHING MACHINE AND THE FINISHING PROCEDURE WILL BE SUBMITTED TO THE ENGINEER. THIS PROPOSAL SHALL SET FORTH ANY AREAS IN WHICH A MECHANICAL FINISHER CANNOT BE USED AND THE METHODS FOR FINISHING THESE AREAS. CONCRETE SHALL NOT BE PLACED UNTIL THIS PROPOSAL IS APPROVED BY THE ENGINEER

DO NOT SAW-CUT GROOVE THE DECK SLAB WITHIN 6" OF ANY CONSTRUCTION JOINT.

STAY-IN-PLACE DECK FORMS -

STAY-IN-PLACE DECK FORMS ARE NOT PERMITTED ON THIS PROJECT.

PLAN QUANTITY FOR CLASS AA CONCRETE INCLUDES 16.9 CUBIC YARDS FOR THE HAUNCHES OVER THE BEAMS AND DIAPHRAGMS. THE HAUNCH HEIGHTS WILL BE CALCULATED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER TO PROVIDE FOR DEAD LOAD DEFLECTION AND BEAM CAMBER.

ALL COSTS OF CONCRETE, REINFORCING STEEL, LONGITUDINAL CONSTRUCTION JOINT SEALANT, SAWED AND SEALED CONSTRUCTION JOINT BETWEEN NEW DECK AND APPROACH SLAB, SAWING OF JOINTS, EXCAVATION, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "APPROACH SLAB".

CONCRETE SLOPE WALL -

ITEM "SLOPE WALL (5")" SHALL BE COMPLETED IN PLACE AS SHOWN IN THE PLANS.

ALL COSTS OF THE "SLOPE WALL (5")" INSTALLATION INCLUDING CLASS A CONCRETE, REINFORCING STEEL, LAP

SPLICES, TRENCH EXCAVATION, BACKER ROD, RAPID CURE JOINT SEALANT, POLYSTYRENE, LABOR, EQUIPMENT AND OTHER INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "SLOPE WALL (5")".

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

OI	KLAHOMA	TURNPIKE AUTH	ORITY	
SECTION ENGINEER	SECTION	CONTRACT NUMBER	SHEET NO.	TOTAL SHEETS
	HEB	HEB-MC-54	5	71
DESCRIPTION		REVISIONS		DATE

PENETRATING WATER REPELLENT SURFACE TREATMENT -

A PENETRATING WATER REPELLENT SURFACE TREATMENT SHALL BE APPLIED TO THE FOLLOWING CONCRETE SURFACES OF THE BRIDGE:

- (A) EDGES AND UNDERSIDE CANTILEVER PORTION OF THE BRIDGE DECK
- (B) THE OUTER FACE AND BOTTOM OF THE EXTERIOR P.C. BEAMS
 (C) THE ROADWAY FACE AND TOP OF THE CONCRETE PARAPET
- (D) SIDES AND ENDS OF PIER CAP NOT TREATED WITH SPECIAL CONCRETE FINISH
- (E) FRONT, SIDES AND EXPOSED AREAS OF ABUTMENT BACKWALL NOT TREATED WITH SPECIAL CONCRETE FINISH ALL COSTS ASSOCIATED WITH USE OF PENETRATING WATER REPELLENT SURFACE TREATMENT INCLUDING THE

COST OF MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "WATER REPELLENT (VISUALLY INSPECTED)".

NON-PERFORATED PIPE UNDERDRAIN ITEM "6" NON-PERFORATED PIPE UNDERDRAIN - ROUND" INCLUDES 22 FEET OF NON-PERF. PIPE, 6.2 C.Y. OF TRENCH EXCAVATION AND 0.6 C.Y. OF STANDARD BEDDING MATERIAL FOR ABUTMENT NO. 1 AND 25 FEET OF NON-PERF. PIPE, 6.9 C.Y. OF TRENCH EXCAVATION AND O.6 C.Y OF STANDARD BEDDING MATERIAL FOR ABUTMENT NO. 2. THE INSTALLATION OF THE NON-PERFORATED PIPE SHALL BE AS SHOWN ON SHEET NO. 22. ITEM "6" NON-PERFORATED PIPE UNDERDRAIN - ROUND" INCLUDES 30 FEET OF NON-PERF. PIPE AT SLOPE WALL NO. 1 AND 30 FEET OF NON-PERF. PIPE AT SLOPE WALL NO. 2. THE INSTALLATION OF THE NON-PERFORATED PIPE SHALL BE AS SHOWN ON SHEET NO. 35 & 36.

ALL COSTS OF THE NON-PERFORATED PIPE UNDERDRAIN INSTALLATION INCLUDING BACKFILLING, MATERIAL, LABOR, EQUIPMENT AND INCIDENTS SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF "6" NON-PERF. PIPE UNDERDRAIN - RND".

PERFORATED PIPE UNDERDRAIN -

ITEM "6" PERFORATED PIPE UNDERDRAIN - ROUND" INCLUDES 43 FEET OF PERFORATED PIPE, 5.0 C.Y. OF FILTER SAND AND 1.3 C.Y. OF COARSE MATERIAL, AND 24.8 S.Y OF FILTER FABRIC FOR EACH ABUTMENT. THE INSTALLATION OF THE PERFORATED PIPE AND PIPE UNDERDRAIN COVER MATERIAL SHALL BE AS SHOWN ON SHEET NO. 22.

ALL COSTS OF TRENCH EXCAVATION, INCLUDING FILTER SAND, COARSE MATERIAL, BEDDING MATERIAL AND FILTER FABRIC, SHALL BE INCLUDED IN THE PRICE BID PER C.Y. OF "SUBSTRUCTURE EXCAVATION COMMON". ITEM "6" PERFORATED PIPE UNDERDRAIN - ROUND" INCLUDES 69 FEET OF PERFORATED PIPE AT EACH SLOPE

WALL. THE INSTALLATION OF THE PERFORATED PIPE SHALL BE AS SHOWN ON SHEET NO. 35 & 36. ALL COSTS OF THE PERFORATED PIPE UNDERDRAIN INSTALLATION INCLUDING LABOR, EQUIPMENT AND INCIDENTS SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF "6" PERFORATED PIPE UNDERDRAIN - RND".

DRAINS AT END OF BRIDGE -

THERE ARE 25.8 C.Y. OF CLASS C CONCRETE REQUIRED TO CONSTRUCT THE SLOPE DRAINS AND SPLASH BASINS AT THE ENDS OF THE BRIDGE. ALL COSTS OF THE SLOPE DRAINS AND SPLASH BASINS INCLUDING MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER C.Y. OF "CLASS C CONCRETE".

(SP) SPECIAL CONCRETE FINISH -

THE SPECIAL CONCRETE FINISH SHALL BE A LIQUID APPLIED URETHANE COATING SUCH AS CIM 1000 AS MANUFACTURED BY CIM INDUSTRIES, INC., IM-129 AS MANUFACTURED BY CUSTOM LININGS, OR AN APPROVED EQUAL. PRODUCT INFORMATION FOR CIM 1000 CAN BE OBTAINED FROM LASTER CASTOR CORP. OF TULSA, OKLAHOMA, PHONE NUMBER 918-234-7777. PRODUCT INFORMATION FOR IM-129 AN BE OBTAINED FROM CUSTOM LININGS, PHONE NUMBER 719-395-4414.

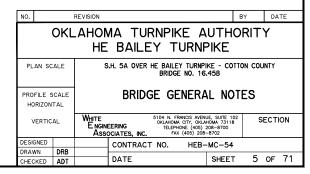
THE EQUIPMENT AND METHODS OF APPLYING THE URETHANE COATING SHALL BE IN ACCORDANCE WITH THE PRODUCT COATING PROFILE AND INSTRUCTION GUIDES FOR APPLICATION TO CONCRETE. PRECAUTIONARY MEASURES SHALL BE IN ACCORDANCE WITH THE MATERIAL SAFETY DATA SHEETS AS PROVIDED BY THE MANUFACTURER.

THE COATING SHALL BE 60 MILS DRY THICKNESS AND 68 MILS WET THICKNESS. IN ADDITION TO APPLYING THE COATING TO THE CONCRETE SUBSTRUCTURE UNITS AS SHOWN IN THE PLANS, THE COATING SHALL RETURN UP THE VERTICAL SURFACES OF THE PIER AND ABUTMENT BEARING PADS TO PROVIDE A WATER TIGHT SEAL WITH THE CONCRETE PEDESTALS. SURFACE PREPARATION AND PRODUCT MIXING SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS AND ALL NEW CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3,000 P.S.I. AT THE TIME OF APPLICATION. PRIMER SHALL BE APPLIED TO THE CONCRETE SURFACES PRIOR TO APPLYING THE COATING. ALL CONCRETE WORK SHALL BE COMPLETED PRIOR TO THE APPLICATION OF THE SPECIAL CONCRETE FINISH. WATER REPELLENT WILL NOT BE REQUIRED ON SURFACES THAT ARE COATED WITH SPECIAL CONCRETE FINISH.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER S.Y. OF "(SP) SPECIAL CONCRETE FINISH", WHICH PRICE SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

SPECIAL ENVIRONMENTAL NOTES FOR BRIDGE NO. 16.45B -

SWALLOW PLAN NOTE FOR BRIDGE REPLACEMENT PROJECTS: CLIFF SWALLOWS AND BARN SWALLOWS ARE SMALL COLONIAL NESTING BIRDS PROTECTED BY THE FEDERAL MIGRATORY BIRD TREATY ACT. THESE SPECIES COMMONLY USE BRIDGES AND CULVERTS FOR NESTING. THE NESTING SEASON FOR THE SWALLOWS RUNS FROM APRIL 1 TO AUGUST 31. ANY ACTIVITIES WHICH WOULD DESTROY ACTIVE NESTS OR HARM EGGS OR BIRDS WOULD VIOLATE THE MIGRATORY BIRD TREATY ACT. SWALLOW USE OF BRIDGE B16.45 WAS NOT OBSERVED DURING THE INITIAL SURVEYS. SWALLOWS MAY OCCUPY THE BRIDGE IN THE FUTURE NESTING SEASONS. THE ENGINEER WILL EVALUATE THE CONTRACTOR'S PROPOSED WORK METHODS AND CONCLUDE WHETHER THE PROPOSED WORK WOULD POSE DISRUPTION TO ANY NESTING BIRDS BEFORE WORK NEAR THE STRUCTURE IS AUTHORIZED. IF THE PROPOSED WORK WILL HARM ANY NESTING BIRDS, THE BRIDGE MAY BE NETTED PRIOR TO APRIL 1 OR THE WORK DELAYED UNTIL THE NESTING SEASON IS COMPLETE.



$\overline{}$	LADUMA	TURNPIKE AUTH		
SECTION ENGINEER	SECTION	CONTRACT NUMBER	SHEET NO.	TOTAL SHEETS
	HEB	HEB-MC-54	6	71
DESCRIPTION		REVISIONS		DATE

PAY ITEM NOTES

- (BR-1) PAYMENT FOR THIS ITEM WILL BE BASED ON THE PLAN QUANTITIES ONLY. SEE SECTION 109.01.B OF THE 2010 STANDARD SPECIFICATIONS.
- (BR-2) THE CONTRACTOR MAY PLACE CONCRETE AGAINST THE LIMITS OF EXCAVATION IF THE MATERIAL IS EXCAVATED TO THE NEAT LINES OF THE SUBSTRUCTURE AND APPROVED BY THE ENGINEER. IF NECESSARY, USE FORMS AT VERTICAL FACES AND REMOVE THE FORMS AFTER CONCRETE HARDENS. THE MEASUREMENT AND PAYMENT FOR SUBSTRUCTURE EXCAVATION COMMON IS IN ACCORDANCE WITH THE DIAGRAMS SHOWN IN THE PLANS.
- (BR-3) THE APPROACH SLABS CONTAIN AN ESTIMATED TOTAL OF 103.6 C.Y. OF CLASS AA CONCRETE AND 20,240 LB. OF EPOXY COATED REINFORCING STEEL. INCLUDED IN THE PRICE BID FOR PAY ITEM "APPROACH SLAB" IS ALSO THE COSTS OF CONSTRUCTION JOINT SEALANT, SAWED AND SEALED CONSTRUCTION JOINT BETWEEN NEW DECK AND APPROACH SLAB, SAWING OF JOINTS, EXCAVATION, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE CONSTRUCTION OF THE APPROACH SLABS.
- (BR-4) THE FIXED BEARING ASSEMBLIES CONTAIN AN ESTIMATED TOTAL OF 1,940 LB. OF STAINLESS STEEL.
- BR-5) THE EXPANSION BEARING ASSEMBLIES CONTAIN AN ESTIMATED TOTAL OF 1.940 LB. OF STAINLESS STEEL.
- (BR-6) INCLUDED IN THE QUANTITY FOR "CLASS AA CONCRETE" ARE 8.5 C.Y. FOR BEAM HAUNCHES.
- (BR-7) PAYMENT TO THE CONTRACTOR WILL BE BASED ON PLAN QUANTITIES UNLESS ADDITIONAL PILING LENGTH IS REQUIRED. ADDITIONAL PILES, FURNISHED, AS AUTHORIZED BY THE ENGINEER, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE.
- (BR-8) STEEL PILES SHALL BE ENCASED IN REINFORCED CONCRETE 4'-0" BELOW THE BOTTOM OF THE ABUTMENT SEAT AND WINGS AS SHOWN ON HP1-2. ENCASEMENT CONSTRUCTION WILL REQUIRE SUBSTRUCTURE EXCAVATION COMMON, CLASS A CONCRETE AND REINFORCING STEEL.
- (BR-9) PAYMENT FOR THIS ITEM INCLUDES THE RODENT SCREENS AS SHOWN ON STANDARD DRAWING PED-3-2.
- SPECIAL CONCRETE FINISH SHALL BE CIM 1000, OR APPROVED EQUAL. THIS ITEM SHALL BE APPLIED TO ALL ABUTMENTS AND PIER AS DIRECTED IN THE PLANS. EDGES OF THE SPECIAL CONCRETE FINISH SHALL BE MASKED WITH TAPE PRIOR TO APPLICATION TO ENSURE CLEAN STRAIGHT LINES ARE OBTAINED. ANY AREAS CONTAINING SPECIAL CONCRETE FINISH OUTSIDE OF THE AREAS AS INDICATED IN THE PLANS SHALL BE CLEANED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- D-5) LINEAR FOOT BID PRICE TO INCLUDE COST OF TRENCH EXCAVATION, BEDDING MATERIALS, AND SEPARATOR FABRIC.

PART A - BRIDGE

PAY QUANTITIES

S.H. 5A OVER H.E. BAILEY TURNPIKE, BRIDGE NO. 16.45B 110' - 110' TYPE IV P.C.B. SPANS 40' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS 14° 34'48.67" SKEW LT. FORWARD, & STA. 68+63.60

ITEM NO.	ITEM		UNIT	TOTAL
501(B)	SUBSTRUCTURE EXCAVATION COMMON	(BR-1, 2)	C.Y.	210
501(G)	CLSM BACKFILL	(BR-1)	C.Y.	290
503(A)	PRESTRESSED CONCRETE BEAMS (TYPE IV)	(BR-1)	L.F.	1,097
504(A)	APPROACH SLAB	(BR-1, 3)	S.Y.	286.6
504(B)	SAW-CUT GROOVING	(BR-1)	S.Y.	1,255.0
504(C)	SEALED EXPANSION JOINT	(BR-1)	L.F.	42.3
504(E)	42" F-SHAPED PARAPET	(BR-1)	L.F.	564.4
506(A)	STRUCTURAL STEEL	(BR-1)	LB.	1,030
507(A)	(SP) STAINLESS STEEL FIXED BEARING ASSEMBLY	(BR-1, 4)	EA.	10
507(B)	(SP) STAINLESS STEEL EXPANSION BEARING ASSEMBLY	(BR-1, 5)	EA.	10
509	(SP) SPECIAL CONCRETE FINISH	(BR-1)(0-4)	S.Y.	83.0
509(A)	CLASS AA CONCRETE	(BR-1, 6)	C.Y.	259.5
509(B)	CLASS A CONCRETE	(BR-1)	C.Y.	192.6
509(D)	CLASS C CONCRETE		C.Y.	25.8
510(C)	SLOPE WALL (5")	(BR-1)	S.Y.	1,121
511(B)	EPOXY COATED REINFORCING STEEL	(BR-1)	LB.	91,900
514(A)	PILES, FURNISHED (HP12x53)	(BR-7)	L.F.	924
514(B)	PILES, DRIVEN (HP12x53)	(BR-8)	L.F.	924
514(L)	PILE SPLICE, H-PILE (NON-BIDDABLE)		EA.	1
515(A)	WATER REPELLENT (VISUALLY INSPECTED)	(BR-1)	S.Y.	920
516(A)	DRILLED SHAFTS 60" DIAMETER		L.F.	104
516(C)	CROSSHOLE SONIC LOGGING	(BR-1)	EA.	1
613(H)	6" PERFORATED PIPE UNDERDRAIN ROUND	(BR-1)(0-5)	L.F.	224
613(1)	6" NON-PERF. PIPE UNDERDRAIN ROUND	(0-5)(BR-9)	L.F.	107
613(Q)	OUTLET LATERAL HEADWALL		EA.	2
619(D)	REMOVAL OF EXISTING BRIDGE STRUCTURE		L.SUM	1

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

NO.		REVISION			BY	DATE		
	OKLAHOMA TURNPIKE AUTHORITY HE BAILEY TURNPIKE							
PLAN SC	ALE	s	.H. 5A OVER HE BAILEY TO BRIDGE NO		TTON COL	INTY		
PROFILE S HORIZON			SUMMARY (PAY QUA					
VERTIC	AL		EERING OKLAHOMA CITY TELEPHONE	S AVENUE, SUITE 1 7, OKLAHOMA 7311 (405) 208-8700 5) 208-8702		ECTION		
DESIGNED			CONTRACT NO. H	HEB-MC-54				
DRAWN CHECKED	DRB ADT		DATE	SHEE"	т 6	of 71		

			SUMN	MARY OF		ING QUA	NTITIES					
SHEET NO.	STATION EXTENTS	STABILIZED SUBGRADE 307(K)	TACK COAT 407(B)	PRIME COAT 408	SUPERPAVE, TYPE S3 (PG 64-22 OK) 411(B)	SUPERPAVE,TYPE S4 (PG 64-22 OK) 411(C)	RUMBLE STRIP 413(A)	P.C. CONCRETE PAVEMENT (PLACEMENT) 414(A)	P.C. CONCRETE FOR PAVEMENT 414(G)	BEAM GUARDRAIL W-BEAM SINGLE 623(A)	GUARDRAIL END TREATMENT (31') 623(G)	GUARDRAIL BRIDGE CONN-THRIE BEAM (31') 623(I)
		S.Y.	GAL.	GAL.	TON	TON	L.F.	S.Y.	C.Y.	L.F.	EA	EA
	SH-5A											
16	STA. 56+18.00 TO STA. 64+00.00	3,932.17	1,109.90	1,376.53	1,378.88	438.59	1,564.00					
17	STA. 64+00.00 TO STA. 79+00.00	6,155.78	1,821.26	2,153.55	2,252.01	748.84	2,454.00			2,458.18	4.00	4.00
18	STA. 79+00.00 TO STA. 87+80.50	4,405.23	1,171.39	1,542.14	1,464.01	437.41	1,761.00					
	H.E. BAILEY (I-44)											
17	STA. 57+20.00 TO STA. 79+80.00		753.33	1,758.13	843.90	562.60		62	8.61			
	TOTALS	14,489.17	4,855.88	6,830.35	5,938.80	2,187.44	5,779.00	62	8.61	2,458.18	4.00	4.00

	OKLAHOMA TURNPIKE AUTHORITY SECTION ENGINEER SECTION CONTRACT NUMBER SHEET NO. TOTAL SHEETS						
SECTION	ENGINEER	SECTION	CONTRACT NUMBER	SHEE	T NO.	TOTAL SHEETS	
		HEB	HEB-MC-54		7	71	
NO.		R	EVISION			DATE	

	SUMMARY OF TEMPORARY EROSION CONTROL								
SHEET NO.	STATION EXTENTS	LOCATION AND DESCRIPTION	TEMPORARY SILT FENCE 221 (C)	TEMPORARY SILT DIKE 221(F)					
ᄼ		DESCRIP HON	L.F.	L.F.					
	SH-5A								
16	STA. 56+18.00 TO STA. 64+00.00	LEFT AND RIGHT	1,361.27	28.00					
17	STA. 64+00.00 TO STA. 79+00.00	LEFT AND RIGHT	2,210.93	70.00					
18	STA. 79+00.00 TO STA. 87+80.50	LEFT AND RIGHT	916.11	84.00					
		TOTALS	4,488.31	182.00					

	SUMMARY OF DRAINAGE STRUCTURES												
STRUCTURE NO.	SHEET NO.	STATION	DESCRIPTION	DESIGN	UNCLASSIFIED EXCAVATION 202(A)	STRUCTURAL EXCAVATION UNCLASSIFIED 501(A)	CLASS AA CONCRETE 509(A)	CLASS A CONCRETE 509(B)	REINFORCING STEEL 511(A)	SIDE DRA CROSS DRA	AINS AND AINS FLOW	CORR. GALV. STEEL PIPE 613(B)	TYPE A6 CULVERT END TTREATMENT 613(M)
ا ۲					C.Y.	C.Y.	C.Y.	C.Y.	LBS.	FL IN	FL OUT	L.F.	E.A.
1	17		EXTEND EXISTING 5'X3' RCB 39' RT. @ 0.30% & 41' LT. @ 0.78%	RCB-C1-5(2-14)-01E, RCB-E1-H3-0-1-01E, RCB-CW1-D4-0-01E, SBI-4-1	72.33	20.28	61.20		10,740.00	1003.50	1004.26		
2	17	78+90.00 LT	CONST. 70 LF 18" CGMP SD 73.43' LT. @ 1.86% W. TYPE A6 CET	RCB-C1-5(2-14)-01E, RCB-E1-H3-0-1-01E, RCB-CW1-D4-0-01E, SBI-4-1								70.00	2.0
3	18	82+80.04 RT& LT		RCB2H-1-02E, RCB1-1-00E, RCB2-1-01E, RCB3-1-01E, SBI-4-1	68.03	17.46		21.49	2,715.44	996.48	996.03		
				TOTALS	140.36	37.74	61.20	21.49	13,455.44			70.00	2.0

SUMMARY OF EART	HWORK	QUAN	ΓΙΤΙΕS	
DESCRIPTION	UNCLASSIFIED EXCAVATION 202(A)	EMBANKMENTS 15% COMP. 202(F)	EXCESS	UNCLASSIFIED BORROW 202(D)
	C.Y.	C.Y.	C.Y.	C.Y.
SH-5A				
WEST OF BRIDGE	2,085	25,986		23,901
EAST OF BRIDGE	3,542	21,572		18,030
	5,627	47,558		41,931

	SUMMARY OF FE	NCES		
SHEET NO.	STATION EXTENTS	FENCE—STYLE SWF 5 BARBED WIRE 624(C)	FENCE—STYLE SWF 6 BARBED WIRE 624(C)	FENCE—STYLE WWF 624(A)
		LF	LF	Ŀ
	SH-5A			
16	STA. 59+25.00 TO STA. 64+00.00 LT & RT	482.00	482.00	
17	STA. 64+00.00 TO STA. 79+00.00 LT & RT	792.00	856.67	
	H.E. BAILEY (I-44)			
17	STA. 66+64.13 TO STA. 69+59.95 LT			243.00
17	STA. 67+00.83 TO STA. 70+55.97 RT			303.00
	TOTALS	1,274.00	1,338.67	546.00
* CTCC	LINE AND CORNER POSTS SHALL BE HEER	TUDOUGUAL	T DD0 1507	

	Sl	JMMARY	OF REMO	OVAL QU	ANTITIES			
SHEET NO.	STATION EXTENTS	REMOVAL OF HEADWALL 619 (B)	REMOVAL OF FENCE 619(A)	REMOVAL OF ASPHALT PAVEMENT 619(B)	REMOVAL OF GUARD RAIL 619(B)	REMOVAL OF CONCRETE PAVEMENT 619(B)	SAWING PAVEMENT 619(C)	COLD MILLING PAVEMENT 412
		E.A.	L.F.	S.Y.	L.F.	S.Y.	L.F.	S.Y.
	SH-5A							
16	STA. 56+18.00 TO STA. 64+00.00		1,041.98	2,556.33			30.17	
17	STA. 64+00.00 TO STA. 79+00.00	2.0	1,808.81	4,328.17	2,347.88			
18	STA. 79+00.00 TO STA. 87+80.50	2.0		2,790.54			28.62	
	H.E. BAILEY (I-44)							
17	STA. 57+20.00 TO STA. 79+80.00		551.52		388.45	69.17		5,022.22
	TOTALS	4.0	3,402.31	9,675.04	2,736.33	69.17	58.79	5,022.22

SUMI	MARY OF DRIVES &	SECTION LIN	E RETURNS
SHEET NO.	STATION AND LOCATION	WIDTH X LENGTH	T.B.S.C. TYPE "E" 402(E)
<u></u> გ			TON
	SH-5A		
17	STA. 78+90.00 LT	16.00 X 100.00	36.50
17	STA. 79+00.00 RT	16.00 X 40.00	22.10
18	STA. 86+72.90 RT	16.00 X 40.00	11.05
		TOTALS	69.65

UNLESS OTHERWISE NOTED STD. DRIVES CALLED FOR ON P&P SHEETS ARE BASED ON ODOT STANDARD RDI-3-0 WITH 15' RADIUS.

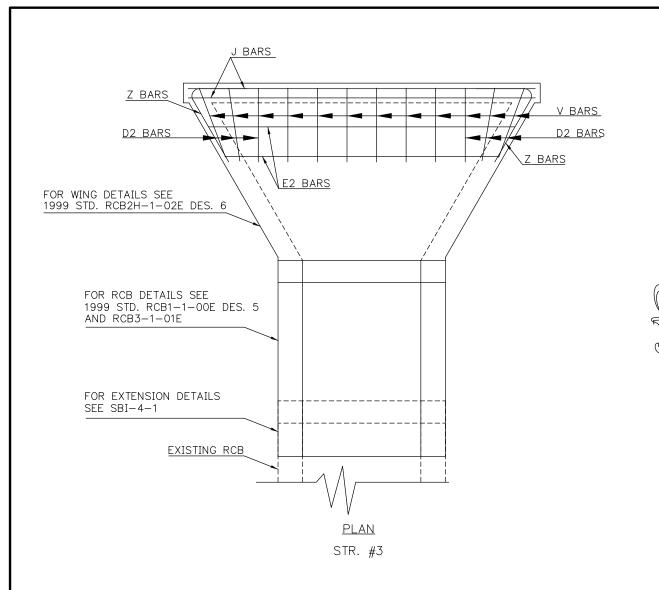
* STEEL LINE AND CORNER POSTS SHALL BE USED THROUGHOUT PRO	ROJECT.
--	---------

	SUMMARY OF DITCH TREATMENT								
SHEET NO.	STATION EXTENTS	LOCATION	DESIGN NO.	BOTTOM WIDTH	CURTAIN WALL	DITCH LINER PROTECTION 229	CLASS C CONCRETE 509(D)		
S			۵	Ŀ	ΕA	LF	CY		
17	STA. 69+00.00 TO STA. 71+20.00 LT	RIGHT	2A	6	3	167.90	22.79		
17	STA. 71+20.00 TO STA. 73+00.00 RT	LEFT	2A	6	3	192.50	26.04		
			TOTA	NLS		360.40	48.83		

SUMMARY OF PERMANENT EROSION CONTROL								
SHEET NO.	STATION EXTENTS	LOCATION AND DESCRIPTION	SOLID SLAB SODDING 230(A)	WATERING 230(F)	VEGETATIVE MULCHING 233(A)	MOWING 241		
ᄷ			S.Y.	K.GAL.	AC.	AC.		
	SH-5A							
16	STA. 56+18.00 TO STA. 64+00.00	LEFT AND RIGHT	4,934.2	197.37	1.02	2.23		
17	STA. 64+00.00 TO STA. 79+00.00	LEFT AND RIGHT	24,043.68	961.75	4.98	6.27		
18	STA. 79+00.00 TO STA. 87+80.50	LEFT AND RIGHT	4,111.02	164.44	0.85	1.64		
	TOTALS		33,088.9	1,323.56	6.85	10.14		

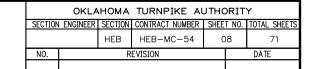
NOT FOR CONSTRUCTION
Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

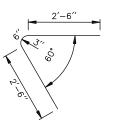
OKLAHOMA TURNPIKE AUTHORITY H.E. BAILEY TURNPIKE								
PLAN SCALE								
N/A		SUMMARY SHEET						
PROFILE SCALE								
HORIZONTAL		(1 OF 1)						
VERTICAL	Smith	Roberts Baldischw	iler, LLC SECTION					
DESIGNED: DH		CONTRACT NO. HEB-MC-	-54					
DRAWN: DH CHECKED: DH		DATE: 02-09-2015	SHEET NO. 07					



NOT FOR CONSTRUCTION

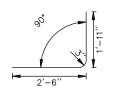
Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.





BENDING FOR Z BARS

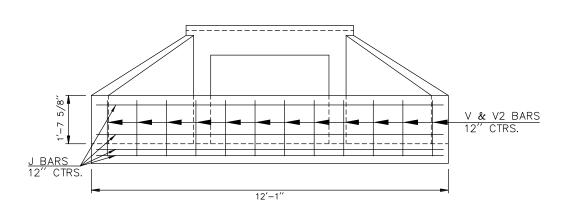




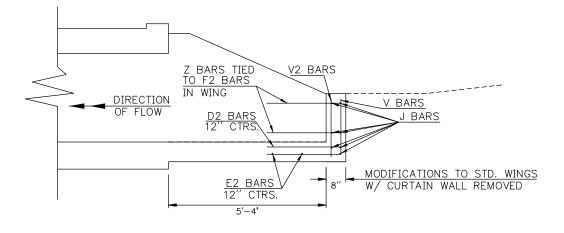
BENDING FOR V BARS

STR. #3 UPSTREAM WING MODIFICATIONS

- * SHORTEN STD. WING 'M' DIMENSION TO 6' 17/8"
- * LEAVE CURTAIN WALL OFF AND CONSTRUCT SPECIAL WALL
- * ELIMINATE CURTAIN WALL REBAR
- * WHERE APPLICABLE POSITION REBAR TO TIE TO STANDARD WING REBAR



ELEVATION
STR. #3



PROFILE STR. #3

OKLAHOMA TURNPIKE AUTHORITY H.E. BAILEY TURNPIKE						
PLAN SCALE N/A		RCB WING DETAIL				
ROFILE SCALE HORIZONTAL		SHEET 1 OF 1				
VERTICAL	Smith	Roberts Baldischwiler, LLC SECTION				
ESIGNED: DH		CONTRACT NO. HEB-MC-54				
RAWN: DH CHECKED: DH		DATE: 12-10-2014	SHEET NO. 08			

- * ALL REBAR CLEARANCE IS 2" UNLESS NOTED OTHERWISE
- * FOR DETAILS NOT SHOWN SEE SBI-4-1, AND 1999 STANDARDS RCB2H-1-02E DES. 6, RCB1-1-00E DES. 5, AND RCB3-1-01E
- * ALL DETAILS ARE NOT TO SCALE

STORMWATER MANAGEMENT PLAN

	OKLAHOMA TURNPIKE AUTHORITY							
SECTION	I ENGINEER	SECTION	CONTRACT NUMBER	SHEE	T NO.	TOTAL SHEETS		
		HEB	HEB-MC-54	0	9	71		
NO.		R	EVISION			DATE		

SITE DESCRIPTION

EROSION AND SEDIMENT CONTROLS

FOLLOWING:

BAILEY TURNPIKE, INCLUDING WITTES: PRIOR TO INITIATING PERIMETER TEMPORARY TOPSOIL. CLEAR AND GRUB ITION AS POSSIBLE. INSTALL, RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE FECTIVENESS AS APPROVED BY ATES OF MAJOR SOIL
VITIES: PRIOR TO INITIATING PERIMETER TEMPORARY TOPSOIL. CLEAR AND GRUB ITION AS POSSIBLE. INSTALL, RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE FECTIVENESS AS APPROVED BY
VITIES: PRIOR TO INITIATING PERIMETER TEMPORARY TOPSOIL. CLEAR AND GRUB ITION AS POSSIBLE. INSTALL, RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE FECTIVENESS AS APPROVED BY
PERIMETER TEMPORARY TOPSOIL. CLEAR AND GRUB ITION AS POSSIBLE. INSTALL, RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE ECTIVENESS AS APPROVED BY
PERIMETER TEMPORARY TOPSOIL. CLEAR AND GRUB ITION AS POSSIBLE. INSTALL, RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE ECTIVENESS AS APPROVED BY
PERIMETER TEMPORARY TOPSOIL. CLEAR AND GRUB ITION AS POSSIBLE. INSTALL, RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE ECTIVENESS AS APPROVED BY
PERIMETER TEMPORARY TOPSOIL. CLEAR AND GRUB ITION AS POSSIBLE. INSTALL, RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE ECTIVENESS AS APPROVED BY
PERIMETER TEMPORARY TOPSOIL. CLEAR AND GRUB ITION AS POSSIBLE. INSTALL, RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE ECTIVENESS AS APPROVED BY
TOPSOIL. CLEAR AND GRUB ATION AS POSSIBLE. INSTALL, RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE ECTIVENESS AS APPROVED BY
TION AS POSSIBLE. INSTALL, RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE ECTIVENESS AS APPROVED BY
RUCTION OPERATIONS AS EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE FECTIVENESS AS APPROVED BY
EEDING. REPLACE SALVAGED AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE FECTIVENESS AS APPROVED BY
AT LEAST 70%) HAS BEEN CHOOSE TO MODIFY THE TYPE FECTIVENESS AS APPROVED BY
CHOOSE TO MODIFY THE TYPE FECTIVENESS AS APPROVED BY
ATES OF MAJOR SOIL
OF EROSION CONTROL
EOADD OOMDLEV
FOARD COMPLEX
98°25′44.57 ' W
WEST CACHE CREEK
NO X
NO X
110 A
110 [7]

SOIL STABILIZATION PRACTICES:

	TEMPORARY	SEEDING			
Χ	PERMANENT	SODDING,	SPRIGGING	OR	SEEDING
Χ	VEGETATIVE	MUL CHING	;		

_ SOIL RETENTION BLANKET X PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PRACTICES:

STABILIZED CONSTRUCTION EXIT
X TEMPORARY SILT FENCE
X TEMPORARY SILT DIKES
TEMPORARY FIBER LOG
DIVERSION, INTERCEPTOR OR PERIMETER DIKES
DIVERSION, INTERCEPTOR OR PERIMETER SWALES
ROCK FILTER DAMS
TEMPORARY SLOPE DRAIN
X PAVED DITCH W/ DITCH LINER PROTECTION
TEMPORARY DIVERSION CHANNELS
TEMPORARY SEDIMENT BASINS
TEMPORARY SEDIMENT TRAPS
TEMPORARY SEDIMENT FILTERS
X TEMPORARY SEDIMENT REMOVAL
RIP RAP
INLET SEDIMENT FILTER
TEMPORARY BRUSH SEDIMENT BARRIERS
SANDBAG BERMS
TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

Χ	- HAUL	RO	DADS	DAMPENE	D F	OR	DUST	CON	ITROL		
				TRUCKS						TARPAU	LIN

__X__EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

SEE SHEET	IS NO. 10 & 1	FOR EROSION	CONTROL

MAINTENANCE AND INSPECTION: ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ONCE EVERY

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE

7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE. POTENTIALLY ERODIBLE AREAS, DRAINAGE WAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

WASTE MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE CONTRACTOR, MATERIALS INCLUDE STOCKPILES, SURPLUS, DEBRIS AND ALL OTHER BY—PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AGENCIES.

HAZARDOUS MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

GENERAL NOTES:

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE—WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORMS AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP—TO—DATE AMENDMENTS DURING THE PROGRESSION OF THE PROJECT. ALL CONTRACTOR OFF—SITE OPERATIONS ASSOCIATED WITH THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, I.E., BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTION. SITES HAS A POTENTIAL FOR POLLUTION. DUE TO EXPOSED SOILS AND FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION.

THE FOLLOWING SECTIONS OF THE 2010 OTA STANDARD SPECIFICATIONS SHOULD BE NOTED:

103.05 BONDING REQUIREMENTS

104.10 FINAL CLEANING UP

104.12 CONTRACTOR'S RESPONSIBILITY FOR WORK

104.13 ENVIRONMENTAL PROTECTION

106.08 STORAGE AND HANDLING OF MATERIAL

107.01 LAWS, RULES AND REGULATIONS TO BE OBSERVED

107.20 STORM WATER MANAGEMENT

220 MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL

221 TEMPORARY SEDIMENT CONTROL

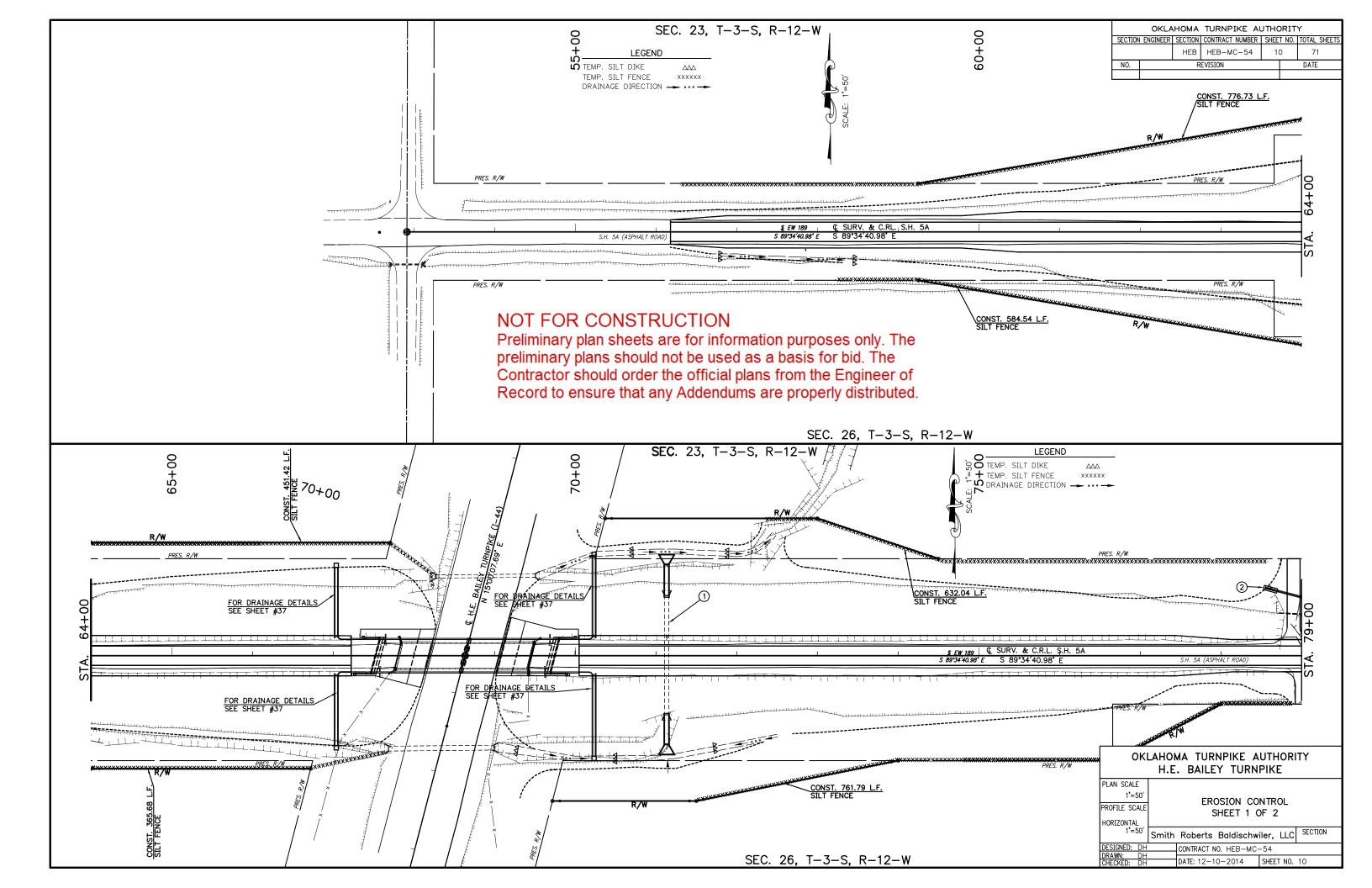
IN ADDITION:

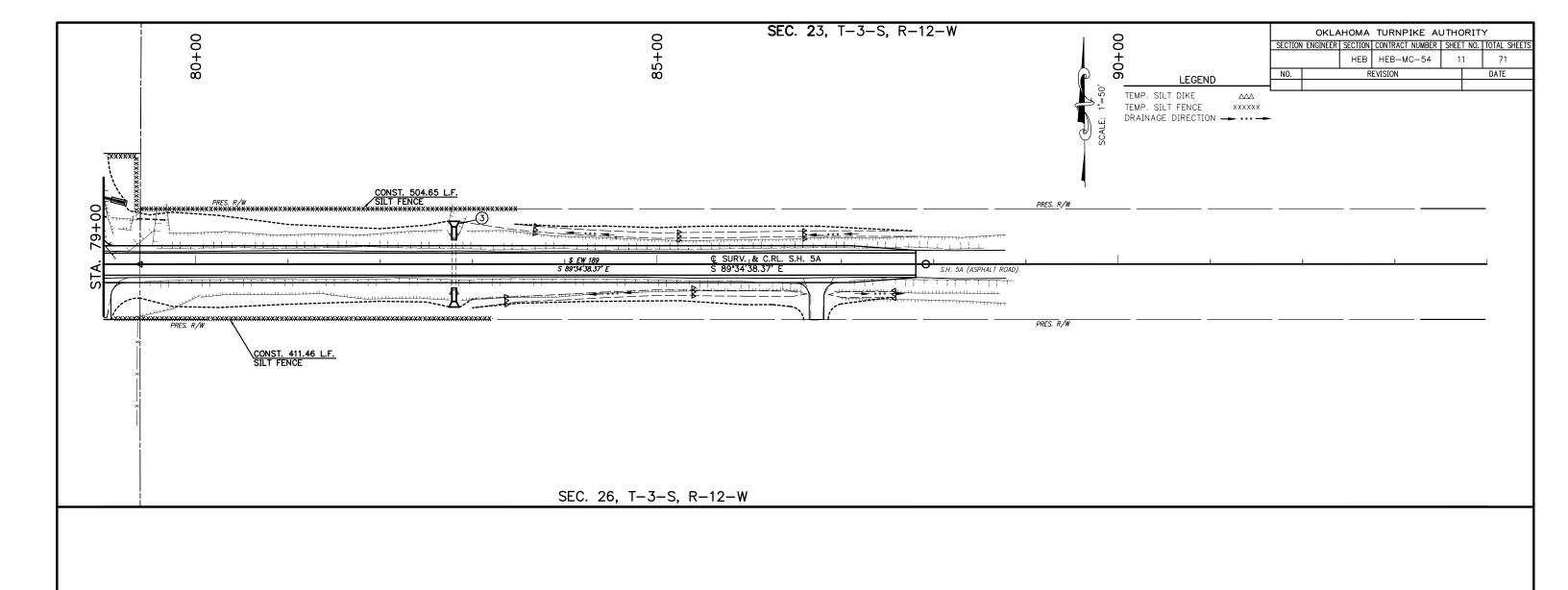
'ODEQ GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA. ODEQ, WATER QUALITY DIVISION, SEPTEMBER 13, 2012.

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

OKLAHOMA TURNPIKE AUTHORITY H.E. BAILEY TURNPIKE						
PLAN SCALE N/A PROFILE SCALE HORIZONTAL	s	TORM WATER POL	LUTION PLAN			
VERTICAL	Smith	Roberts Baldischw	iler, LLC SECTION			
DESIGNED: DH DRAWN: DH		CONTRACT NO. HEB-MC-				
CHECKED: DH		DATE: 01-09-2015	SHEET NO. 09			



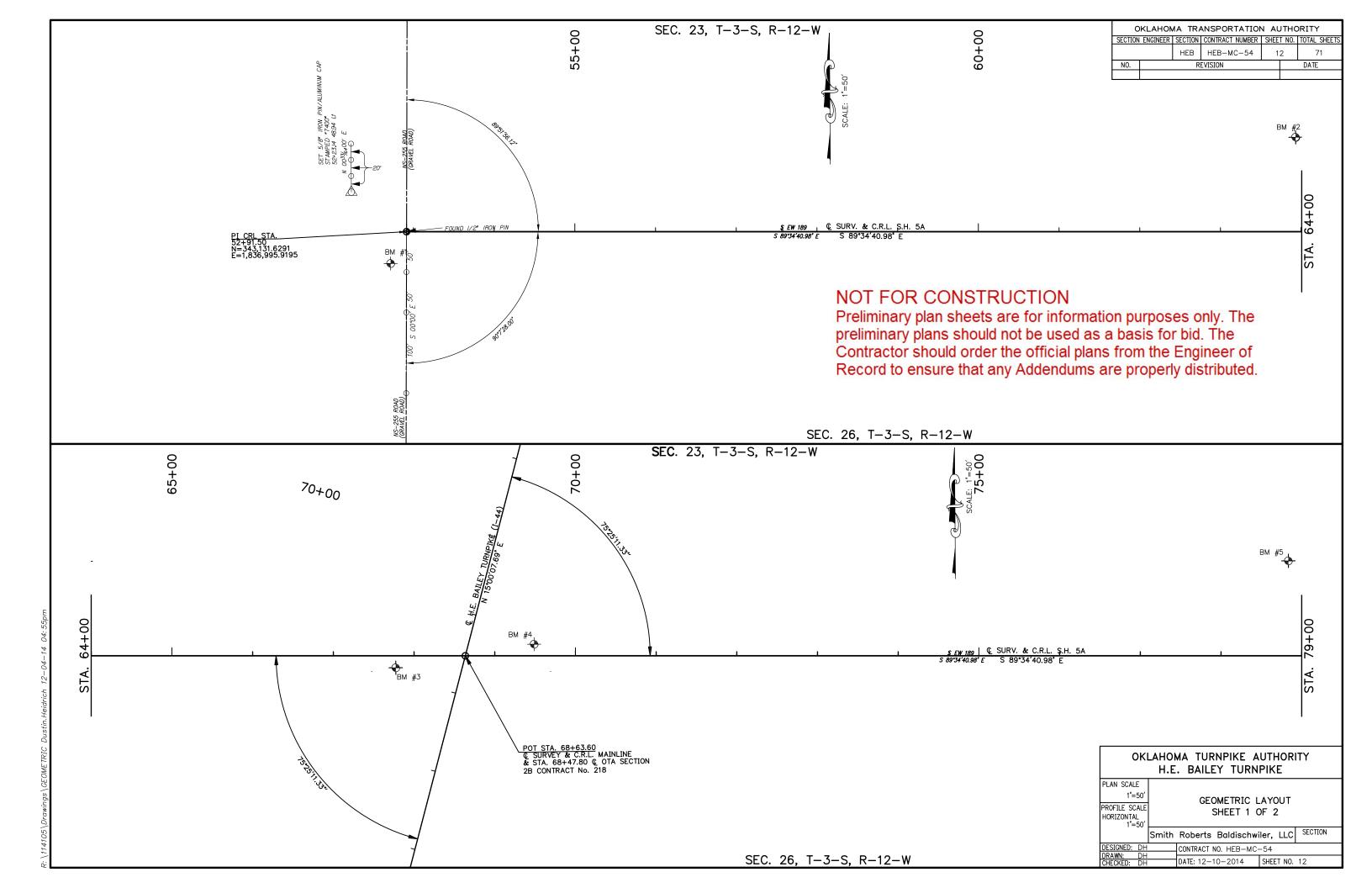


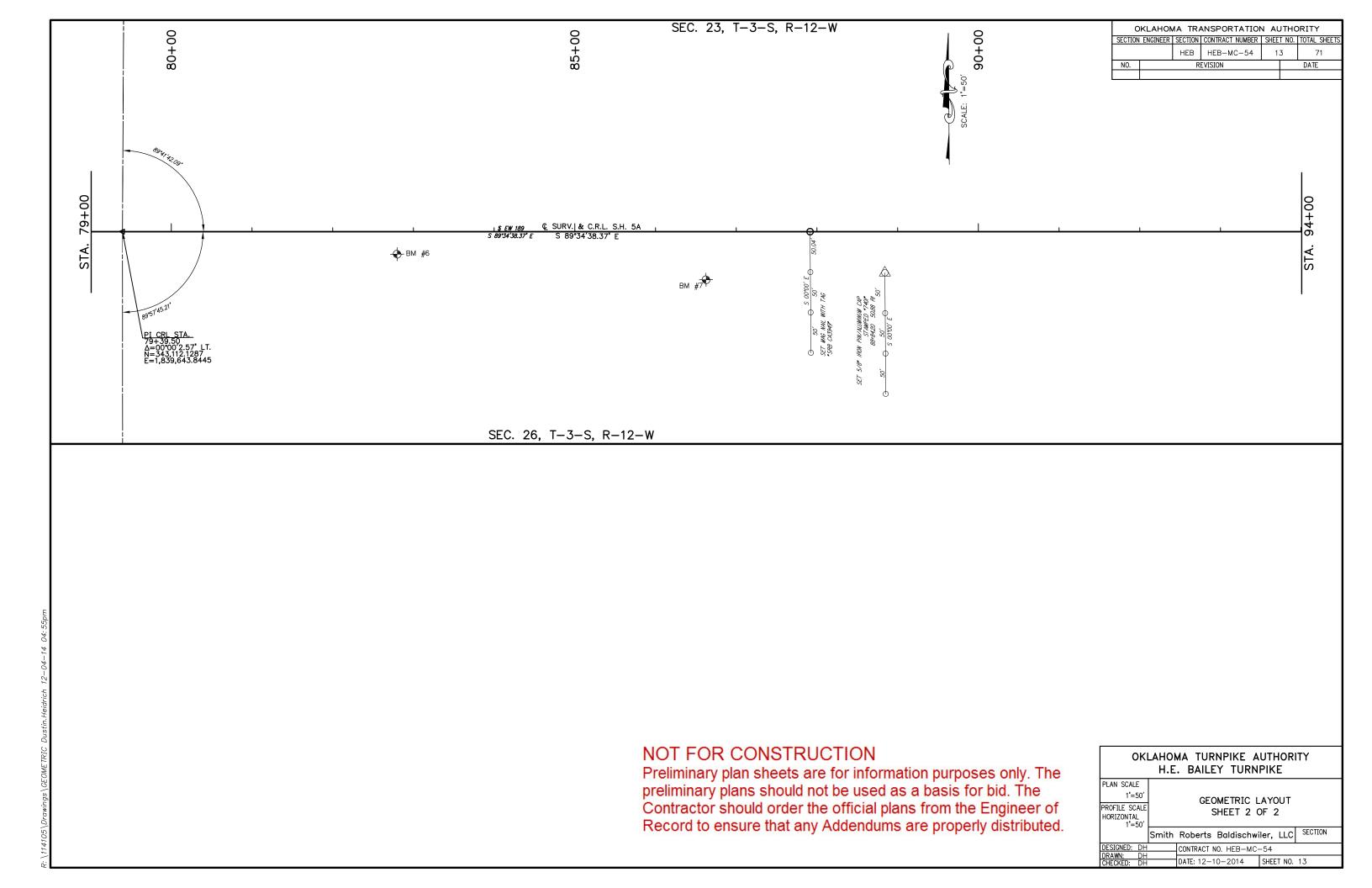
NOT FOR CONSTRUCTION

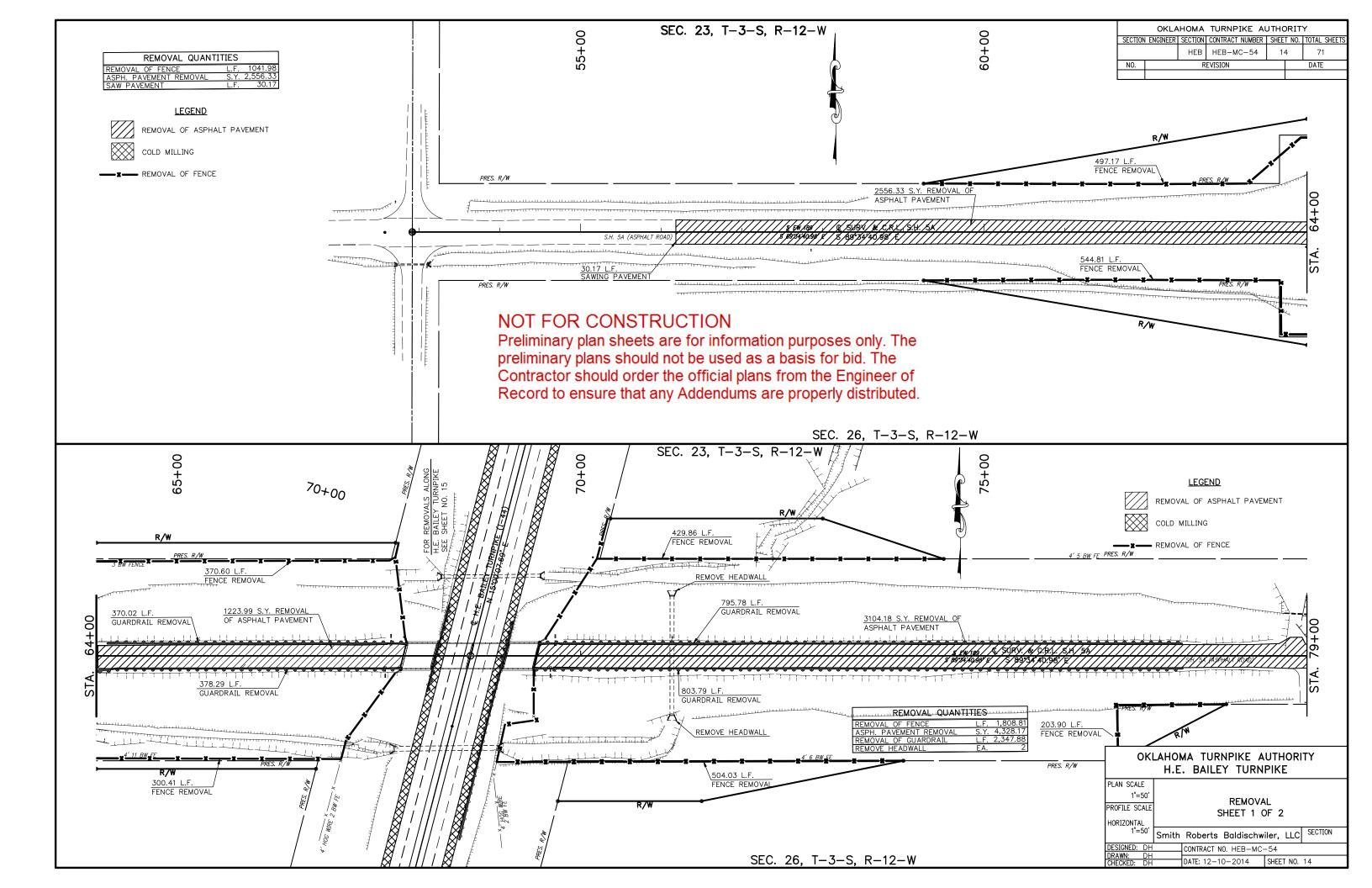
Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

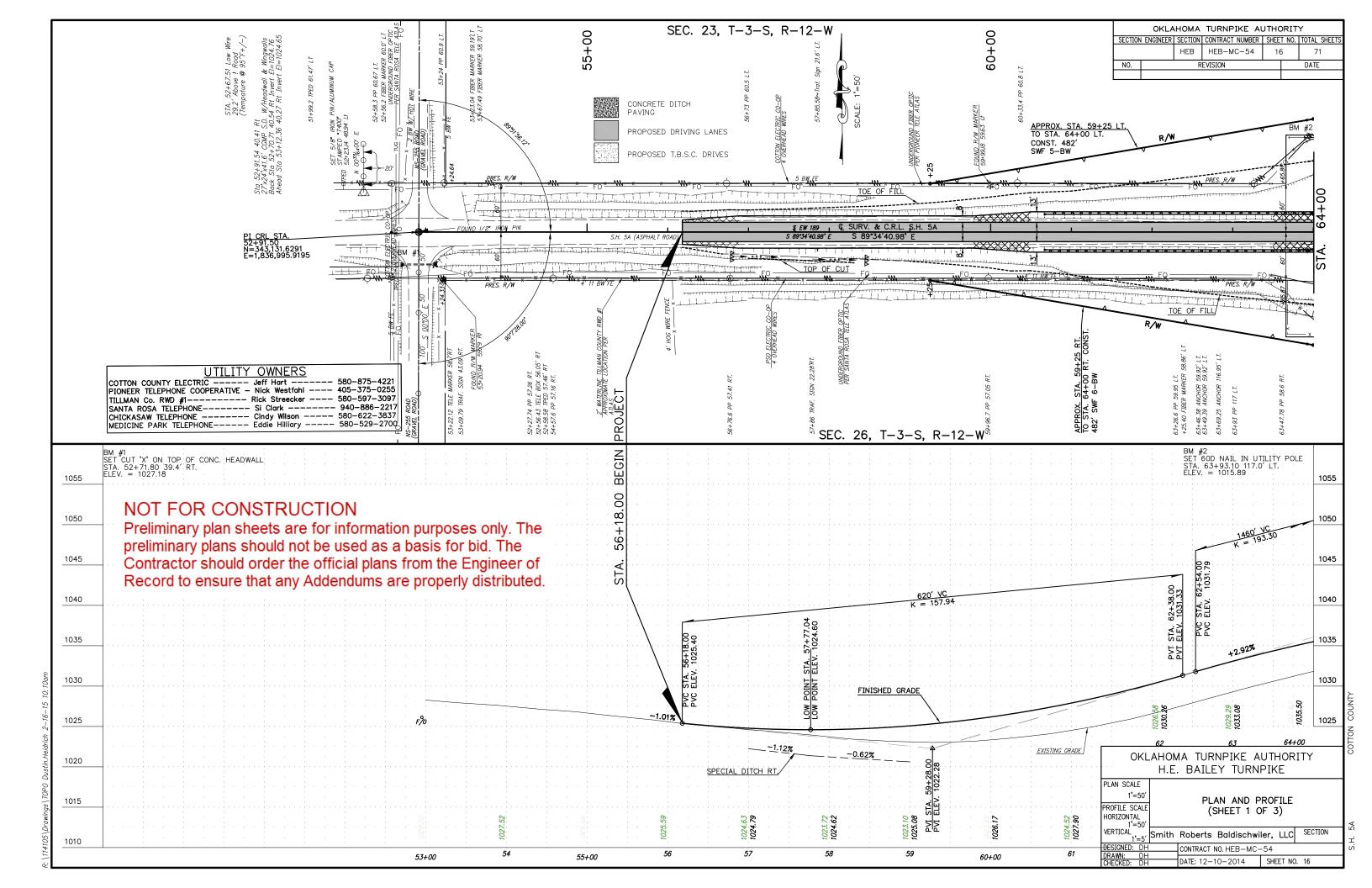
OKLAHOMA TURNPIKE AUTHORITY H.E. BAILEY TURNPIKE						
PLAN SCALE 1'=50' PROFILE SCALE HORIZONTAL		EROSION CO SHEET 2 (
1 " =50′	Smith	Roberts Baldischwiler, LLC SECTION				
DESIGNED: DH		CONTRACT NO. HEB-MC-54				
DRAWN: DH CHECKED: DH		DATE: 12-10-2014	SHEET NO. 11			

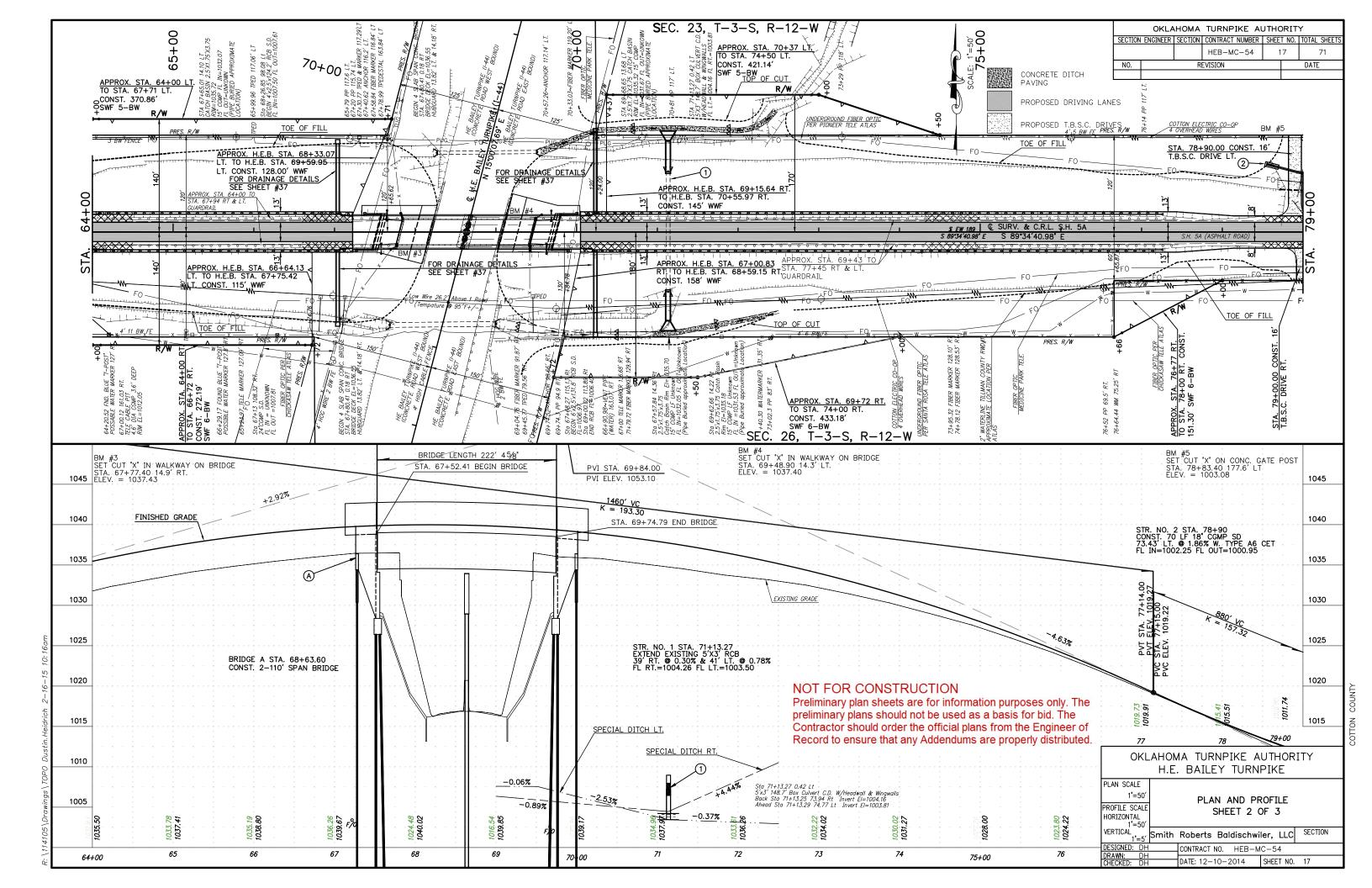
14100 (Didwiiigs (Errosiai) control bastii...neidilcii 12—04—14 04. Ook

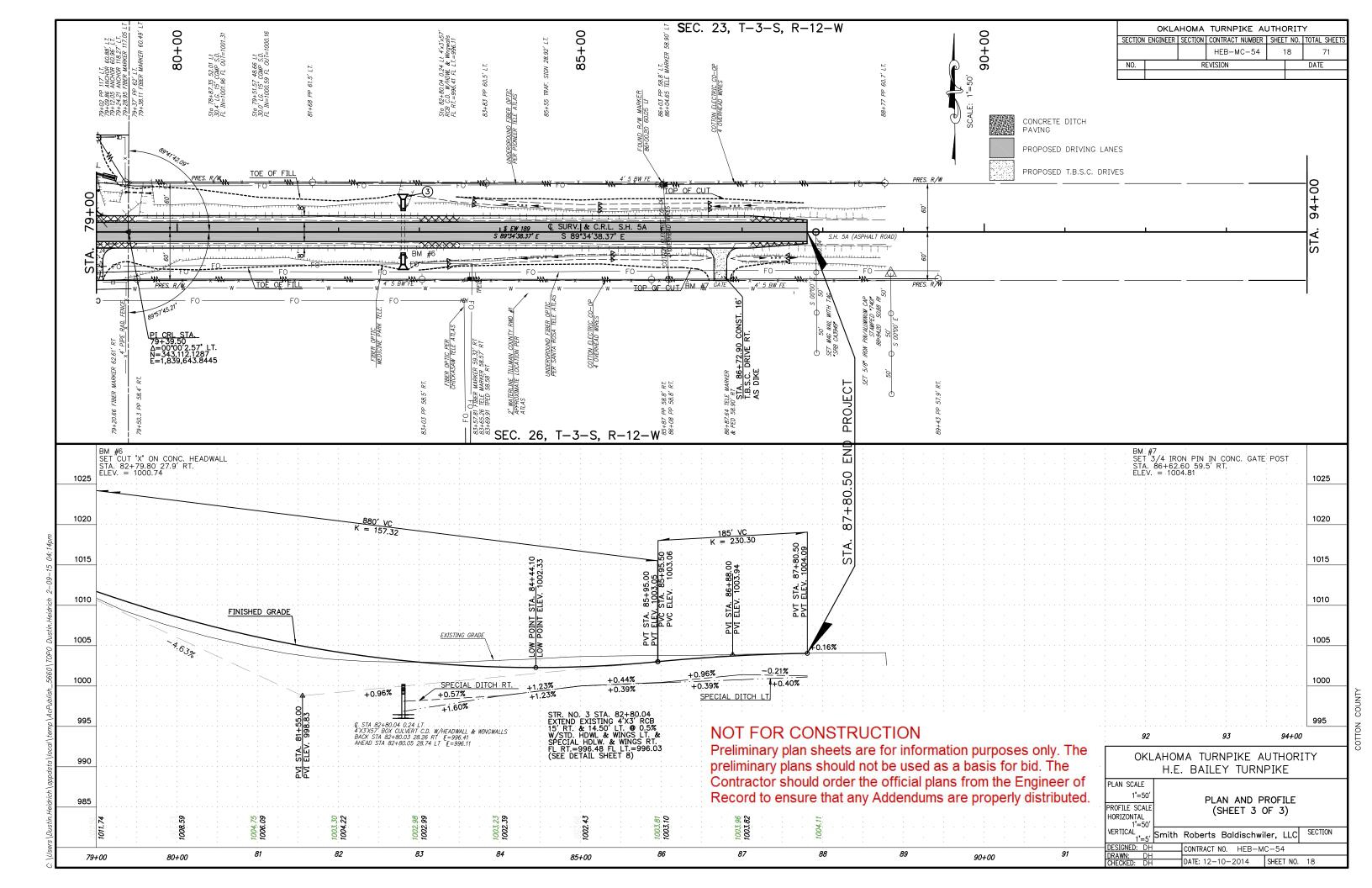


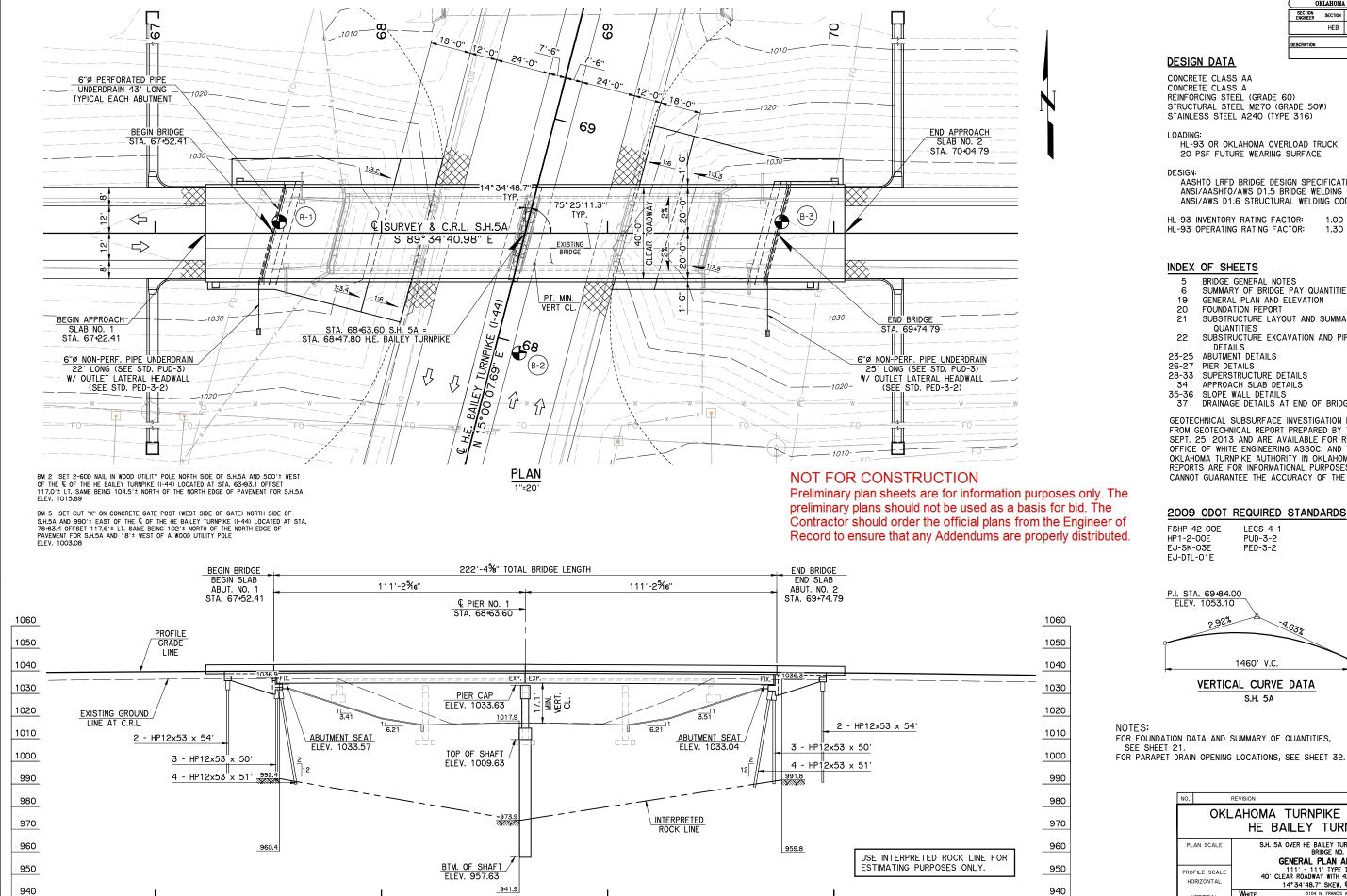












70

OKLAHOMA TURNPIKE AUTHORITY SECTION SECTION CONTRACT NUMBER SHEET TOTAL SHEETS HEB HEB-MC-54 19 71

CONCRETE CLASS AA CONCRETE CLASS A f'c = 4 K.S.I. f'c = 3 K.S.I. fy = 60 K.S.I. Fy = 50 K.S.I. REINFORCING STEEL (GRADE 60) STRUCTURAL STEEL M270 (GRADE 50W) STAINLESS STEEL A240 (TYPE 316) Fy = 30 K.S.I.

HL-93 OR OKLAHOMA OVERLOAD TRUCK 20 PSF FUTURE WEARING SURFACE

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6th EDITION ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE ANSI/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL

HL-93 INVENTORY RATING FACTOR: HL-93 OPERATING RATING FACTOR:

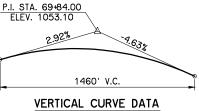
INDEX OF SHEETS

- BRIDGE GENERAL NOTES
- SUMMARY OF BRIDGE PAY QUANTITIES
- GENERAL PLAN AND ELEVATION
- FOUNDATION REPORT
- SUBSTRUCTURE LAYOUT AND SUMMARY OF BRIDGE QUANTITIES
- SUBSTRUCTURE EXCAVATION AND PIPE UNDERDRAIN DETAILS
- 23-25 ABUTMENT DETAILS
- 28-33 SUPERSTRUCTURE DETAILS
- 35-36 SLOPE WALL DETAILS DRAINAGE DETAILS AT END OF BRIDGE

GEOTECHNICAL SUBSURFACE INVESTIGATION REPORTS ARE TAKEN FROM GEOTECHNICAL REPORT PREPARED BY TERRACON DATED SEPT. 25, 2013 AND ARE AVAILABLE FOR REVIEW AT THE OFFICE OF WHITE ENGINEERING ASSOC. AND THE OFFICE OF THE OKLAHOMA TURNPIKE AUTHORITY IN OKLAHOMA CITY. THE REPORTS ARE FOR INFORMATIONAL PURPOSES ONLY. OTA CANNOT GUARANTEE THE ACCURACY OF THE SOIL CONDITIONS.

2009 ODOT REQUIRED STANDARDS

LECS-4-1 PUD-3-2 PED-3-2



S.H. 5A

FOR FOUNDATION DATA AND SUMMARY OF QUANTITIES,

No.			DEVICION			BY	DATE		
NO.	NO. REVISION						DATE		
	OKLAHOMA TURNPIKE AUTHORITY								
	HE BAILEY TURNPIKE								
HE DAILET TURNFIKE									
PLAN SCALE S.H. 5A OVER HE BAILEY TURNPIKE - COTTON COUNTY BRIDGE NO. 16.45B						NTY			
GENERAL PLAN AND ELEVATION									
BBOI		CALE	111' - 111' TYPE IV P.C.B. SPANS						
PROFILE SCALE HORIZONTAL			40' CLEAR ROADWAY WITH 42" F-SHAPED PARAPETS						
HORIZONTAL				14°34'48.7" SKEW, € STA. 68+63.60					
VERTICAL		AL	WHITE FACINI	5104 N. FRANCIS AVENUE, SUITE 102 OKLAHOMA CITY, OKLAHOMA 73118 SECTION FEERING TELEPHONE (ADS) 208-8700					
				EERING TELEPHONE (405) 208-8700 OCIATES, INC. FAX (405) 208-8702					
DESIG	SNED			CONTRACT NO. H	EB-MC-54				
DRAW	VN	DRB			0.,555	- 10	05 71		
CHEC	KED	ADT		DATE	SHEET	19	of 71		

67

68

ELEVATION 1"=20'

 OKLAHOMA TURNPIKE AUTHORITY

 SECTION
 SECTION LOONIRACT NUMBER
 SHEET SHEETS

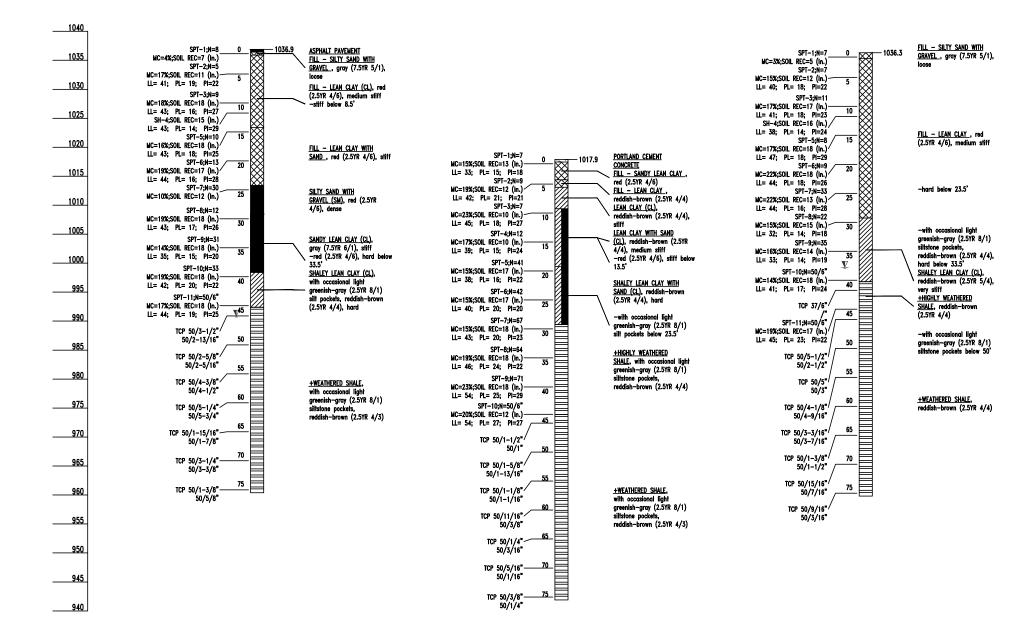
 HEB
 HEB-MC-54
 20
 71

 DESCRIPTION
 REVISIONS
 DATE

Boring No. B-1
See Exhibit A-1
Water Level Check: 46 Ft.
(8/24/2013)
Approximate Surface Elev (Ft.): 1036.9 +/-

Boring No. B-2
See Exhibit A-1
Approximate Surface Elev (Ft.): 1017.9 +/-

Boring No. B-3
See Exhibit A-1
Water Level Check: 37 Ft.
(8/23/2013)
Approximate Surface Elev (Ft.): 1036.3 +/-



NOT FOR CONSTRUCTION

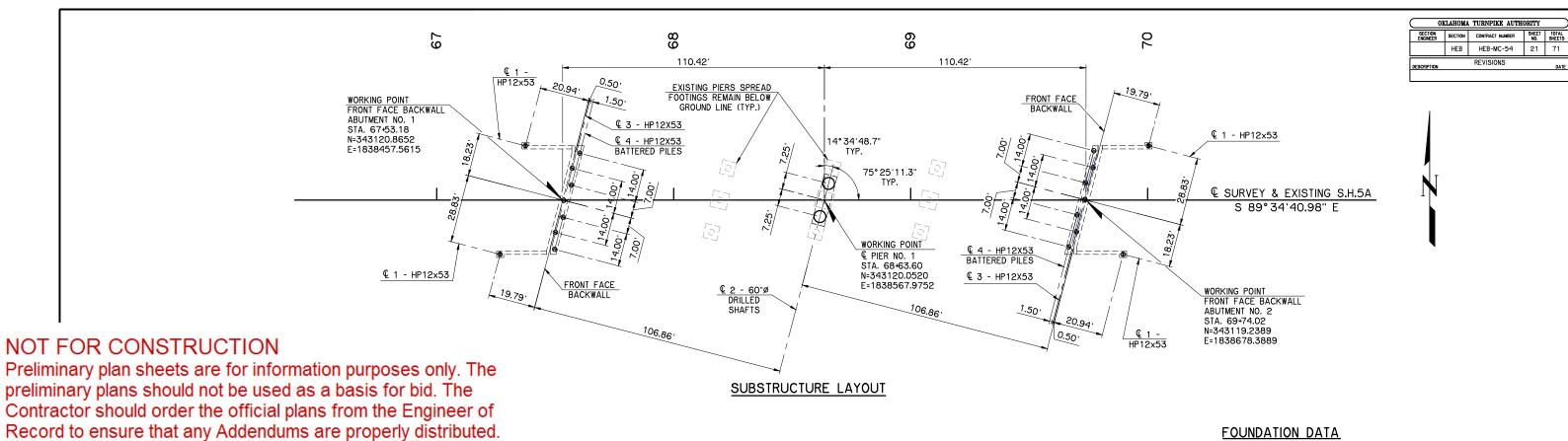
Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

Groundwater levels were obtained during the drilling operations, and may fluctuate throughout the year.

7 Water level +24 hours after _ drilling +Classification estimated from disturbed samples. Core samples and petrographic analysis may reveal other rock types.

	LEGEND
DB = Diamond Drilling Bit	MC = Moisture Content
SPT = Split Spoon Sampler	LL = Liquid Limit
N = Number of Blows for 12 inches	PL = Plastic Limit
TCP = Texas Cone Penetrometer	PI = Plasticity Index
REC = Recovery	P200 = Passing #200 Sieve Size
RQD = Rock Quality Designation	UCS = Unconfined Compressive Strength

NO.			REVISION					BY	DA	TE
	(OKL		MA TUR BAILE				ORIT	Υ	
PLAN SCALE			s	S.H. 5A OVER HE BAILEY TURNPIKE - COTTON COUNTY BRIDGE NO. 16.45B						
	ILE SO			FOU	NDAT	ION	REPO	RT		
VERTICAL		AL		EERING OCIATES, INC.	OKLAHOMA TELEPHO		UE, SUITE 10 HOMA 73118 208-8700 -8702		ECTI	ON
DESIG				CONTRACT	NO.	HEB-	-MC-54			
DRAW				DATE			SHEET	20	OF	71
CHECK	KED I							20	01	, ,



	SUMI	MARY OF B	RIDGE QUA	NTITIES			
ITEM	UNIT	ABUTMENTS	PIERS	SUPERSTR.	APP. SLABS	SLOPE WALL	TOTAL
SUBSTRUCTURE EXCAVATION COMMON	C.Y.	210					210
CLSM BACKFILL	C.Y.	290					290
PRESTRESSED CONCRETE BEAMS (TYPE IV)	L.F.			1,097			1,097
APPROACH SLAB	S.Y.				286.6		286.6
SAW-CUT GROOVING	S.Y.			988.4	266.6		1,255.0
SEALED EXPANSION JOINT	L.F.			42.3			42.3
42" F-SHAPED PARAPET	L.F.			444.4	120.0		564.4
STRUCTURAL STEEL	LB.			1,030			1,030
(SP) STAINLESS STEEL FIXED BEARING ASSEMBLY	EA.			10			10
(SP) STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA.			10			10
(SP) SPECIAL CONCRETE FINISH	S.Y.	53.0	30.0				83.0
CLASS AA CONCRETE	C.Y.			259.5			259.5
CLASS A CONCRETE	C.Y.	103.6	89.0				192.6
CLASS C CONCRETE	C.Y.						25.8
SLOPE WALL (5")	S.Y.					1,121	1,121
EPOXY COATED REINFORCING STEEL	LB.	12,640	13,300	65,960			91,900
PILES, FURNISHED (HP12x53)	L.F.	924					924
PILES, DRIVEN (HP12x53)	L.F.	924					924
PILE SPLICE, H-PILE (NON-BIDDABLE)	EA.	1					1
WATER REPELLENT (VISUALLY INSPECTED)	S.Y.	62	25	777	56		920
DRILLED SHAFTS 60" DIAMETER	L.F.		104				104
CROSSHOLE SONIC LOGGING	EA.		1				1
6" PERFORATED PIPE UNDERDRAIN ROUND	L.F.	86				138	224
6" NON-PERF. PIPE UNDERDRAIN RND.	L.F.	47				60	107
OUTLET LATERAL HEADWALL	EA.	2					2
REMOVAL OF EXISTING BRIDGE STRUCTURE	L.SUM						1

FOUNDATION DATA

PIERS (60" DIAMETER DRILLED SHAFTS)

MAXIMUM FACTORED DRILLED SHAFT REACTION = 1028.0 TON / SHAFT

NOMINAL UNIT BEARING RESISTANCE = 60.0 T.S.F. BEARING RESISTANCE FACTOR

FACTORED BEARING RESISTANCE = 824.7 TON / SHAFT NOMINAL UNIT FRICTION RESISTANCE

FRICTION RESISTANCE FACTOR = 0.45 = 514.6 TON / SHAFT FACTORED FRICTION RESISTANCE

= 5.6 T.S.F.

DEPTH OF ROCK NEGLECTED FOR FRICTION = 3.0 FT.

TOTAL FACTORED DRILLED SHAFT RESISTANCE = 1339.3 TON / SHAFT

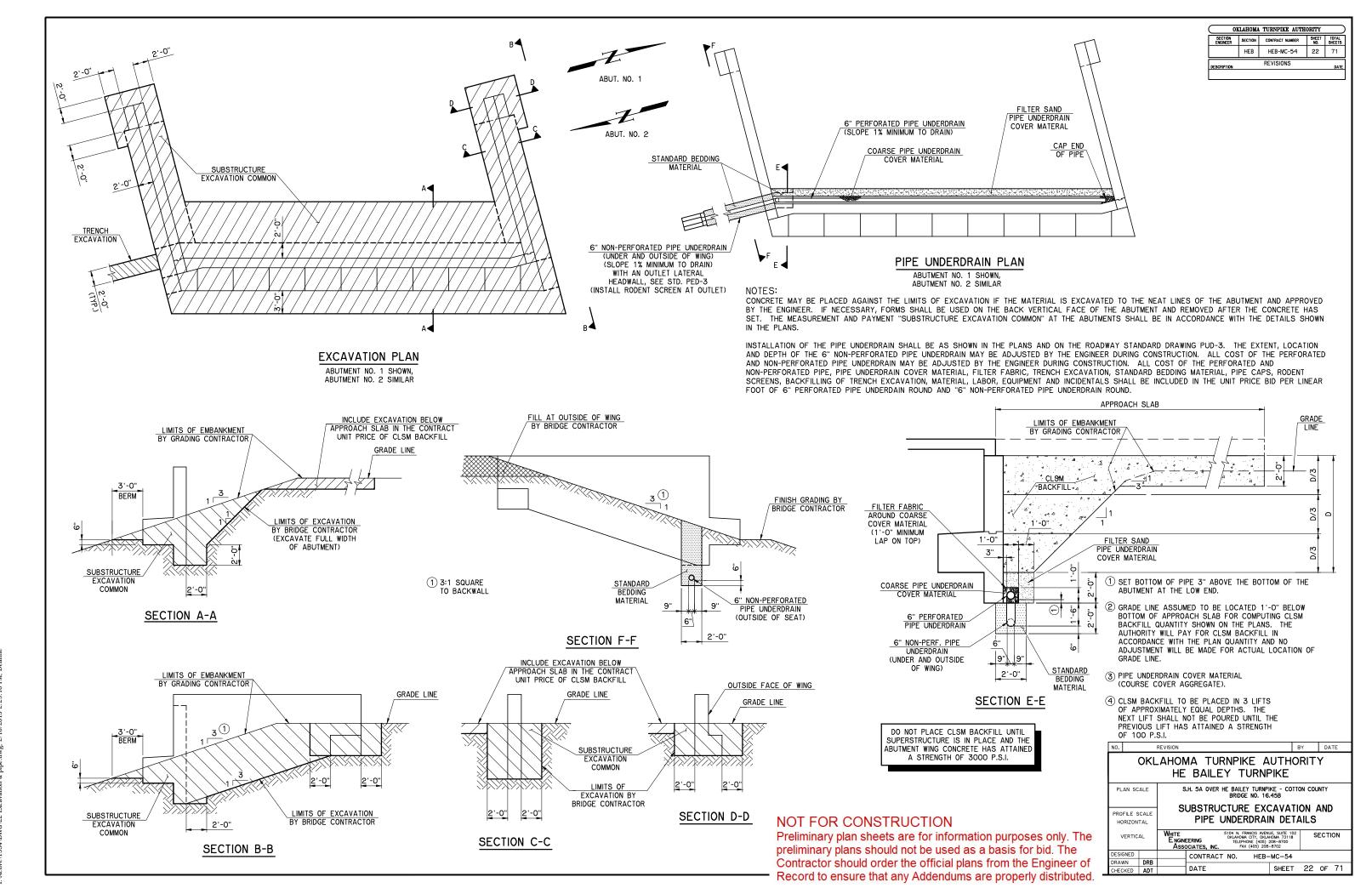
ABUTMENTS (HP12x53 PILING)

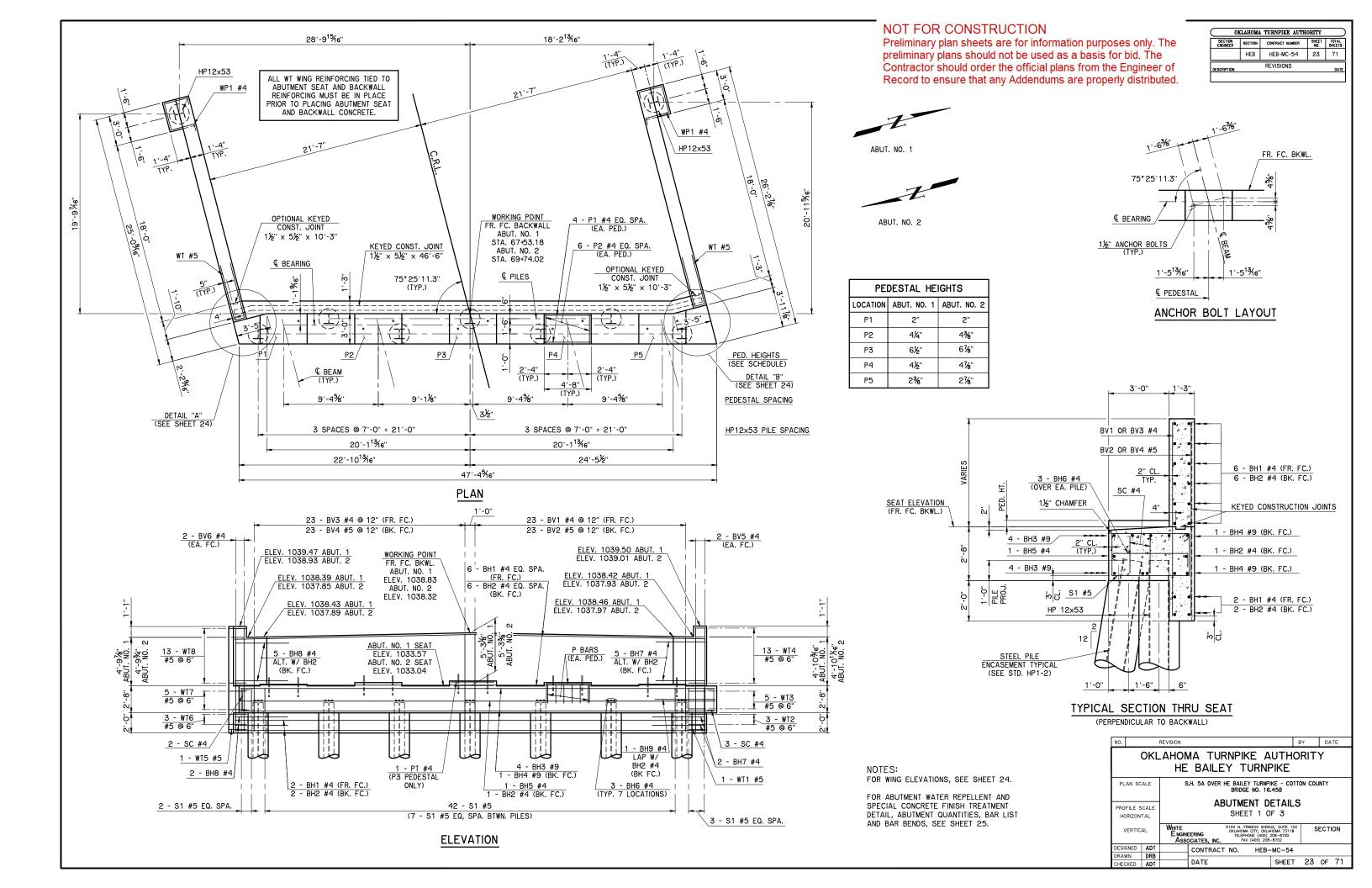
MAXIMUM FACTORED PILE REACTION = 112.8 TON / PILE

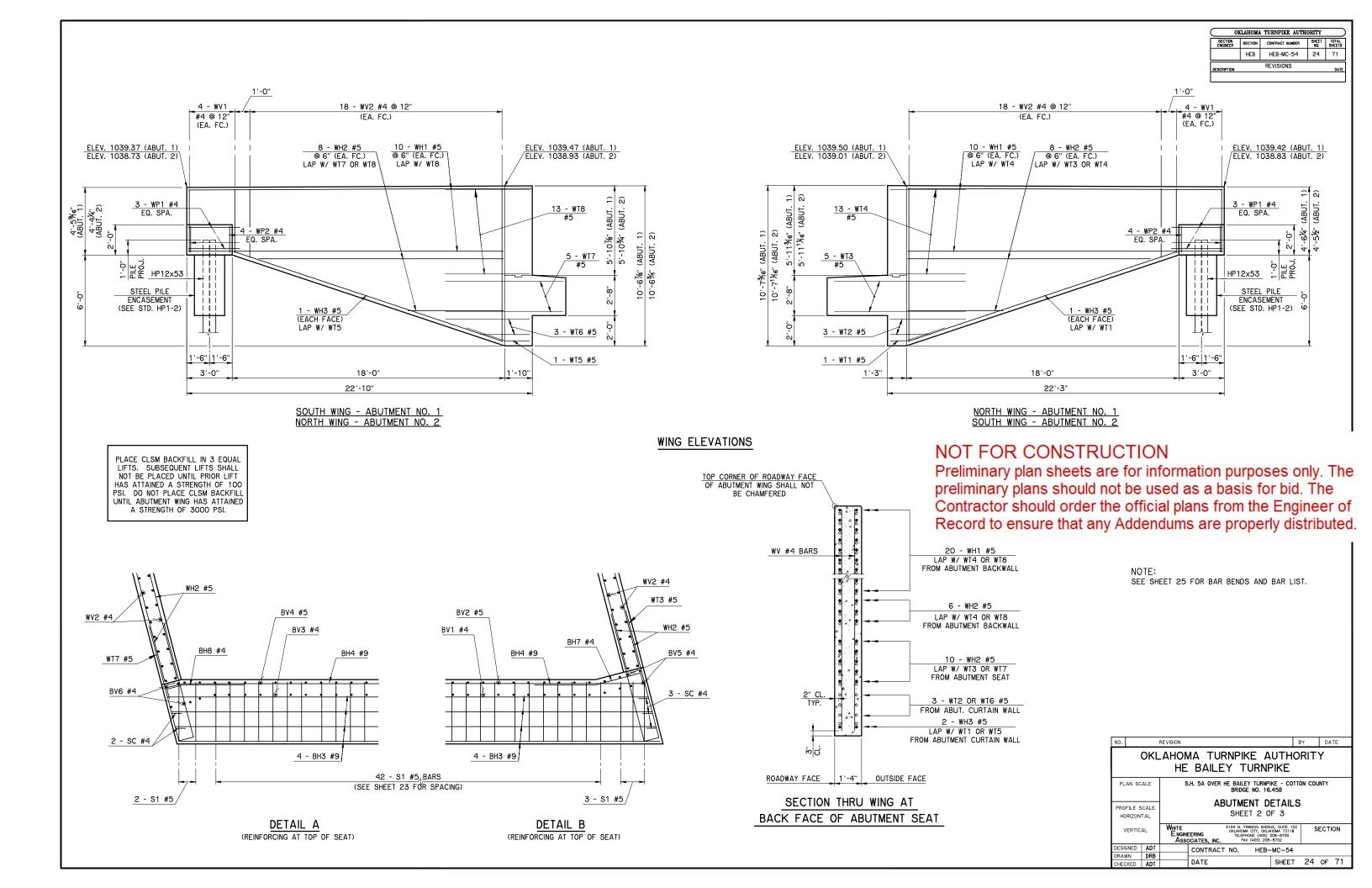
FACTORED PILE RESISTANCE:

DRIVE PILING THROUGH THE COMPACTED FILL AND TO A POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF A FACTORED AXIAL LOAD RESISTANCE EQUAL TO OR GREATER THAN THE FACTORED PILE REACTION IS NOT OBTAINED AT THIS ELEVATION, CONTINUE DRIVING UNTIL SUCH IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

NO.		-	REVISION			В	Υ	DA	TE		
		OKL		MA TURNPIK BAILEY TU			RIT	Y			
PL	PLAN SCALE S.H. 5A OVER HE BAILEY TURNPIKE - COTTON COUNTY BRIDGE NO. 16.45B										
	FILE S		S	SUBSTRUCTU UMMARY OF E				-	;		
VERTICAL				EERING OKLAHOMA TELEPHO		UE, SUITE 102 HOMA 73118 208-8700 -8702	SI	ECTI	ON		
DESK	GNED			CONTRACT NO.	HEB-	-MC-54					
DRAV	٧N	DRB		DATE		CHEET	0.1	٥-	71		
CHEC	CKED	ADT		DATE		SHEET	21	OF	7.1		







42'-7" 40'-3" BH2 #4 x 48'-2" BH1 #4 x 46'-9" 45'-10" 4'-0" BH4 #9 x 47'-0" BH8 #4 x 5'-10" BH7 #4 x 7'-9" BH6 #4 x 5'-1" 2'-7" P1 #4 x 8'-3" P2 #4 x 6'-7" SC #4 x 2'-7" S1 #5 x 12'-11" WP1 #4 x 8'-8" PT #4 x 14'-9" <u>PLAN</u> <u>2'-6"</u> TO 5'-6" WT2 WT3 8'-8" 5'-0" 1'-1<u>"</u> WT1 WT6 3'-1" TO 5'-7" **LEGEND** 7'-10" ELEVATION WH3 #5 x 21'-7" 5'-7" WATER REPELLENT WT1 #5 x 8'-6" SPECIAL CONCRETE FINISH WT5 #5 x 9'-8" WT2 #5 \times 9'-0" AVG. WT3 #5 x 18'-4" WT4 #5 x 11'-0" - SPECIAL CONCRETE FINISH WT6 #5 x 9'-8" AVG. WT7 #5 x 16'-8" WT8 #5 x 12'-2" WATER REPELLENT TREATMENT ON ABUTMENT BACKWALL AS SHOWN ABUTMENT QUANTITIES WATER REPELLENT TREATMENT ON EXPOSED FACE OF SEAT AND WING ABUTMENT ITEM UNIT ABUT. NO. 1 ABUT. NO. 2 AS SHOWN SUBSTRUCTURE EXCAVATION COMMON C.Y. 105 C.Y. CLSM BACKFILL 145 34 (SP) SPECIAL CONCRETE FINISH S.Y. 26 CLASS A CONCRETE C.Y. 51.8 ...9 [3] [4] [4] EPOXY COATED REINFORCING STEEL LB. 6,320

ELEVATION

3 APPLY 6" ABOVE HIGHEST PEDESTAL

(4) MASK TO PROVIDE A CLEAN, STRAIGHT EDGE AT TOP AND BOTTOM OF SPECIAL CONCRETE

FINISH APPLICATION.

SPECIAL CONCRETE FINISH

ABUTMENT WATER REPELLENT AND

SPECIAL CONCRETE FINISH TREATMENT DETAILS

SIDE

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

SECTION ENGINEER	SECTION	CONTRACT NUMBER	SHEET NO.	TOTAL
	HEB	HEB-MC-54	25	71
DESCRIPTION		REVISIONS		DAT

					IT BAR LIST TWO REQUIRED)
	MARK	SIZE	NO.	FORM	LENGTH	LENGTH VARIATION
			EPOX	Y COATED	REINFORCING BA	ARS
L	BH1	#4	8	BNT.	46'-9"	
	BH2	#4	9	BNT.	48'-2"	
	внз	#9	8	STR.	47'-0"	
ſ	BH4	#9	2	BNT.	47'-0"	
ſ	BH5	#4	1	STR.	47'-0"	
Γ	вн6	#4	21	BNT.	5'-1"	
ſ	BH7	#4	7	BNT.	7'-9"	
ſ	BH8	#4	7	BNT.	5'-10"	
ſ	ВН9	#4	1	STR.	6'-0"	
Ī	BV1	#4	23	STR.	9'-4" AVG.	9'-2" TO 9'-6"
ſ	BV2	#5	23	STR.	9'-4" AVG.	9'-2" TO 9'-6"
Ī	BV3	#4	23	STR.	9'-3" AVG.	9'-0" TO 9'-6"
Ī	BV4	#5	23	STR.	9'-3" AVG.	9'-0" TO 9'-6"
Ī	BV5	#4	4	STR.	10'-2"	
Ī	BV6	#4	4	STR.	10'-1"	
ľ	P1	#4	20	BNT.	8'-3"	
t	P2	#4	30	BNT.	6'-7"	
I	PT	#4	1	BNT.	14'-9"	
t	SC	#4	5	BNT.	2'-7"	
I	S1	#5	47	BNT.	12'-11"	
İ	WH1	#5	40	STR.	20'-8"	
٦t	WH2	#5	32	STR.	11'-1" AVG.	5'-10" TO 16'-4"
t	WH3	#5	4	BNT.	21'-7"	
İ	WT1	#5	1	BNT.	8'-6"	
t	WT2	#5	3	BNT.	9'-0" AVG.	6'-0" TO 12'-0"
İ	WT3	#5	5	BNT.	18'-4"	
İ	WT4	#5	13	BNT.	11'-0"	
İ	WT5	#5	1	BNT.	9'-8"	
İ	WT6	#5	3	BNT.	9'-8" AVG.	7'-2" TO 12'-2"
f	WT7	#5	5	BNT.	16'-8"	
t	WT8	#5	13	BNT.	12'-2"	
f	WV1	#4	16	STR.	4'-0"	
	WV2	#4	72	STR.	7'-3" AVG.	4'-5" TO 10'-1"
	WP1	#4	6	BNT.	8'-8"	
t	WP2	#4	8	STR.	1'-7"	

(1) 4 SETS OF 8

TOTAL

210

290

53

103.6

12,640

924

924

62

86

47

2

105

145

27

6,320

462

462

31

43

25

L.F.

L.F.

EA.

S.Y.

L.F.

L.F.

EA.

462

462

31

43

22

1

PILES, FURNISHED (HP 12x53)

PILE SPLICE, H-PILE (NON-BIDDABLE)

6" NON-PERF. PIPE UNDERDRAIN RND.

WATER REPELLENT (VISUALLY INSPECTED)

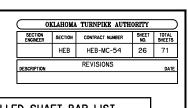
6" PERFORATED PIPE UNDERDRAIN ROUND

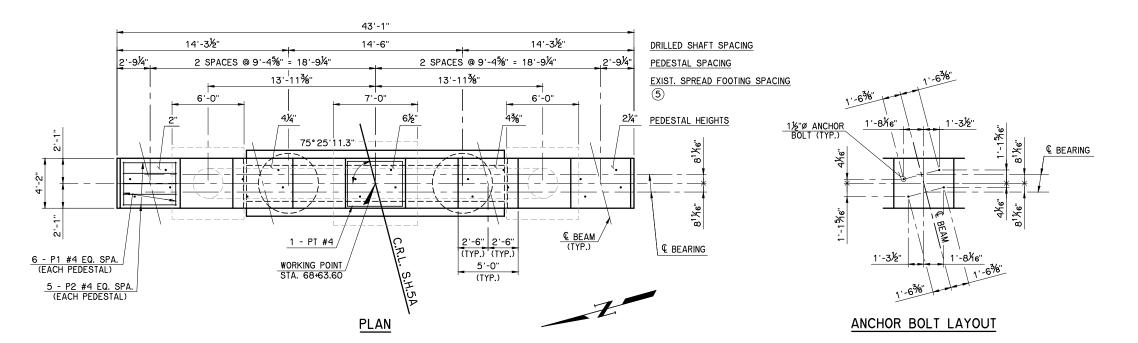
PILES, DRIVEN (HP 12x53)

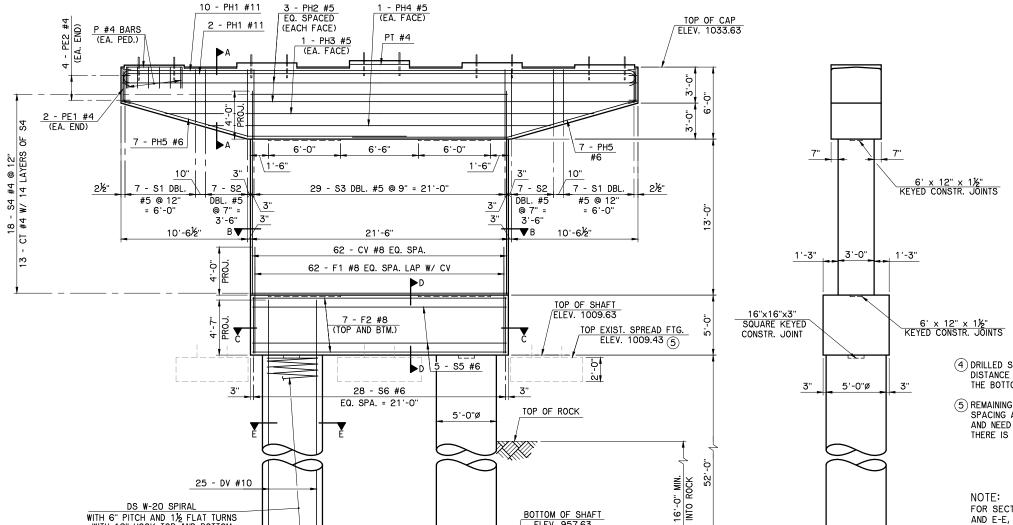
OUTLET LATERAL HEADWALL

2 4 SETS OF 18

NO.		REVISION			В	ΙΥ	DA.	ΤE	
OKLAHOMA TURNPIKE AUTHORITY HE BAILEY TURNPIKE									
PLAN	SCALE	s	.H. 5A OVER HE BAILE' BRIDGE	TURNP NO. 16		ON COU	NTY		
	E SCALE ONTAL	ABUTMENT DETAILS SHEET 3 OF 3							
VERTICAL			EERING OKLAHOMA TELEPHO			S	ECT	ON	
DESIGNE	D ADT		CONTRACT NO.	HEB-	-MC-54				
DRAWN	DRB								
CHECKE	D ADT		DATE		SHEET	25	OF	71	







ELEVATION

BOTTOM OF SHAFT ELEV. 957.63

4

END VIEW

10 - PH1 #11

DS W-20 SPIRAL
WITH 6" PITCH AND 1½ FLAT TURNS
WITH 10" HOOK TOP AND BOTTOM

	Р	IER CAP	, COL	UMN AND	DRILLED SH	AFT BAR LIST
	MARK	SIZE	NO.	FORM	LENGTH	LENGTH VARIATION
			EF	OXY COAT	TED REINFORCING	;
	СТ	#4	182	BNT.	3'-10"	
	CV	#8	62	STR.	16'-10"	
	F1	#8	62	STR.	8'-9"	
	F2	#8	14	STR.	21'-0"	
	P1	#4	30	BNT	7'-2"	
	P2	#4	25	BNT.	8'-0"	
	PE1	#4	4	BNT.	3'-10"	
	PE2	#4	8	BNT.	4'-11"	
	PH1	#11	12	BNT.	45'-11"	
	PH2	#5	6	STR.	42'-9"	
	РН3	#5	2	STR.	35'-6"	
	PH4	#5	2	STR.	28'-4"	
3	PH5	#6	14	BNT.	26'-2"	
	PT	#4	1	BNT.	17'-5"	
	S1	#5	28	BNT.	13'-9" AVG.	11'-11" TO 15'-7"
	S2	#5	28	BNT.	17'-1" AVG.	16'-1" TO 18'-1"
	S3	#5	46	BNT.	18'-3"	
	S4	#4	18	BNT.	48'-5"	
	S5	#6	5	BNT.	53'-0"	
	S6	#6	28	BNT.	20'-4"	
				PLAIN F	REINFORCING	
21	DS	W20	2	BNT.	1322'-4"	
2	DV	#10	50	STR.	56'-4"	
•	<u> </u>					

- 1) LENGTH SHOWN DOES NOT ACCOUNT FOR SPLICES. CONTRACTOR MAY ADD SPLICES AS NECESSARY, BUT PAYMENT WILL NOT BE MADE FOR EXTRA LENGTH REQUIRED FOR SPLICES.
- (2) INCLUDED IN CONTRACT UNIT PRICE OF DRILLED SHAFT.
- (3) 2 SETS OF 7

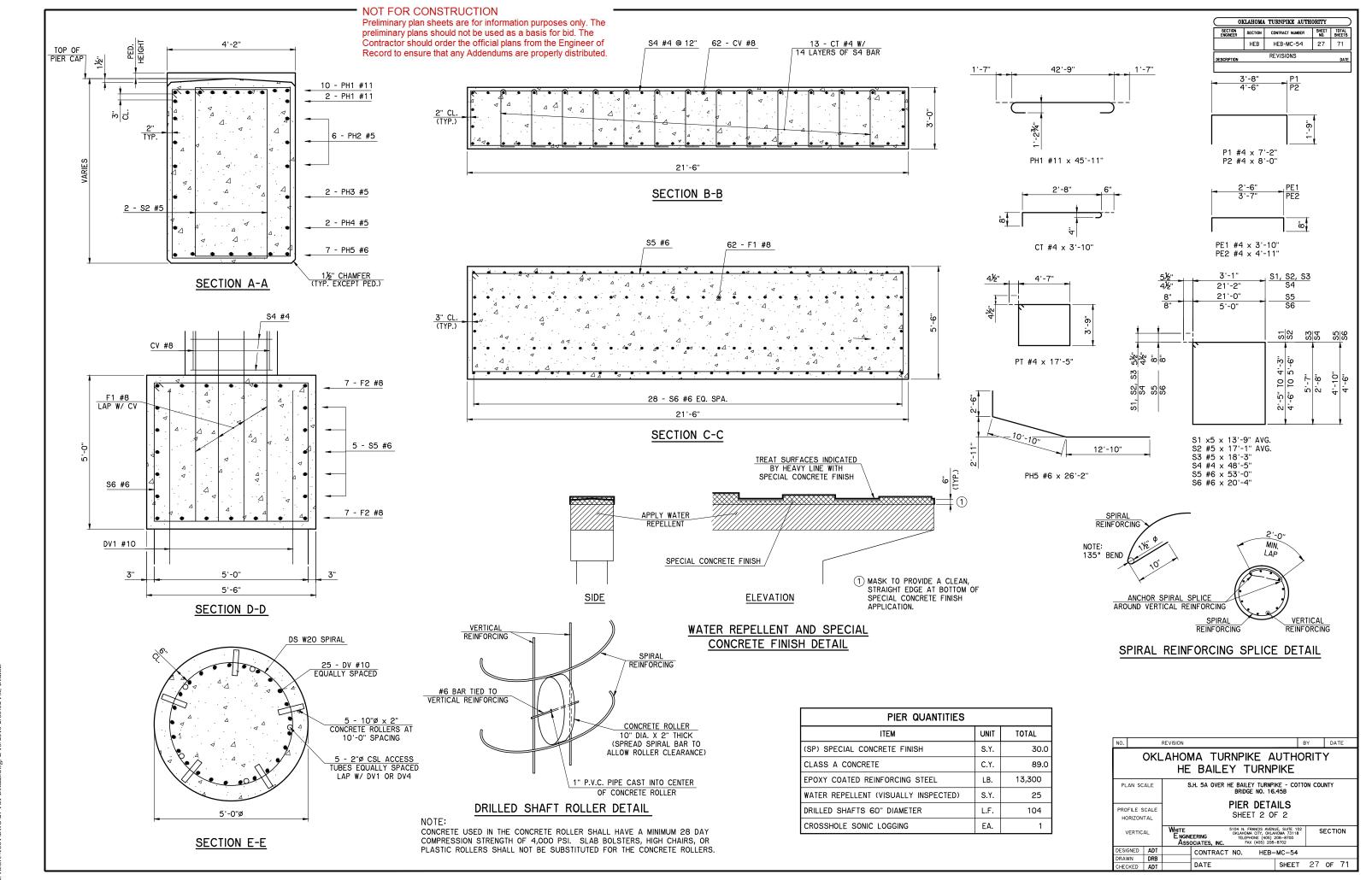
NOT FOR CONSTRUCTION

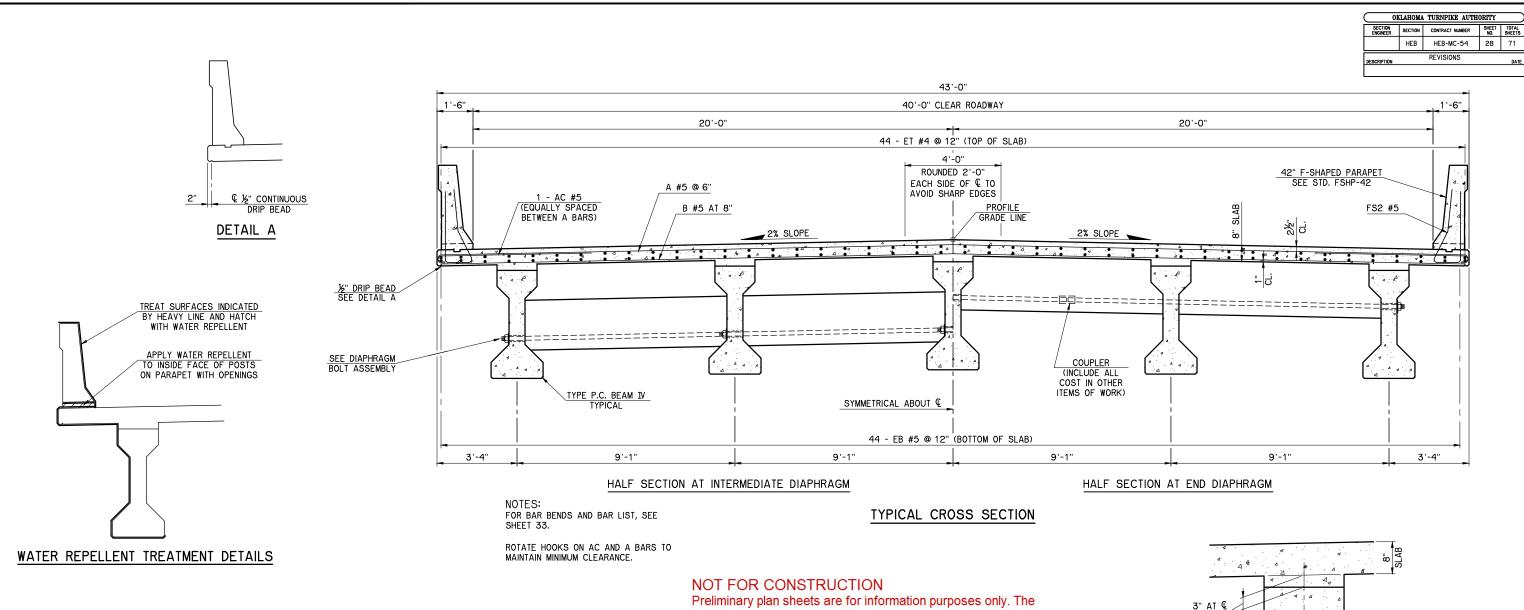
Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

- (4) DRILLED SHAFT SHALL BE INSTALLED THE SPECIFIED MINIMUM DISTANCE INTO ROCK, BUT IN NO CASE SHALL BE HIGHER THAN THE BOTTOM OF DRILLED SHAFT ELEV. SHOWN ON PLANS.
- (5) REMAINING IN PLACE EXISTING SPREAD FOOTING DIMENSION, SPACING AND ELEVATIONS ARE TAKEN FROM RECORD DRAWINGS, AND NEED TO BE FIELD VERIFIED. INFORM THE ENGINEER IF THERE IS A CONFLICT WITH THE NEW DRILLED SHAFTS.

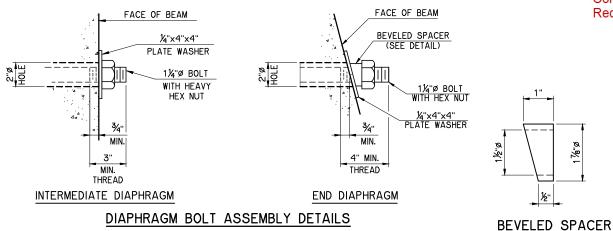
FOR SECTIONS A-A, B-B, C-C, D-D AND E-E, BAR BENDS, WATER REPELLENT TREATMENT AND SPECIAL CONCRETE FINISH DETAIL AND QUANTITY BLOCK, SEE SHEET 27.

NO.		REVISION			Е	Υ	DA	TE	
	OKL		MA TURNPIK BAILEY T			RIT'	Y		
PLAN SCALE S.H. 5A OVER HE BAILEY TURNPIKE - COTTON COUNTY BRIDGE NO. 16.45B									
PROFILE HORIZO			PIER DETAILS SHEET 1 OF 2						
VERTI	CAL		#ITE						
DESIGNED	ADT		CONTRACT NO.	HEB-	-MC-54				
DRAWN	DRB					00		71	
CHECKED	ADT		DATE		SHEET	26	UF	7.1	





preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.



SUPERSTRUCTURE QUANTITIES	;	
ITEM	UNIT	TOTAL
PRESTRESSED CONCRETE BEAMS (TYPE IV)	L.F.	1,097
SAW-CUT GROOVING	S.Y.	988.4
SEALED EXPANSION JOINT	L.F.	42.3
42" F-SHAPED CONCRETE PARAPET	L.F.	444.4
STRUCTURAL STEEL	LB.	1,030
(SP) STAINLESS STEEL FIXED BEARING ASSEMBLY	EA.	10
(SP) STAINLESS STEEL EXPANSION BEARING ASSEMBLY	EA.	10
CLASS AA CONCRETE	C.Y.	259.5
EPOXY COATED REINFORCING STEEL	LB.	65,960
WATER REPELLENT (VISUALLY INSPECTED)	S.Y.	777

BEAM HAUNCH DETAIL

BEARING

PLAN QUANTITIES FOR CLASS AA CONCRETE INCLUDE BEAM HAUNCHES. THE HAUNCH HEIGHT SHOWN IS THE THEORETICAL HAUNCH HEIGHT AT THE CENTERLINE BEARING ONLY, MEASURED FROM THE BOTTOM OF THE DECK SLAB TO THE TOP OF THE BEAM, AND VARIES ACROSS THE SPAN. DETERMINE THE ACTUAL HAUNCH HEIGHT (ACCOUNTING FOR BEAM CAMBER, DEAD LOAD DEFLECTION AND ROADWAY GRADE) AFTER ERECTION OF THE BEAMS AND SUBMIT TO THE ENGINEER FOR APPROVAL. THE ENGINEER WILL NOT MEASURE DIFFERENCES BETWEEN THE THEORETICAL AND THE ACTUAL HAUNCH HEIGHTS

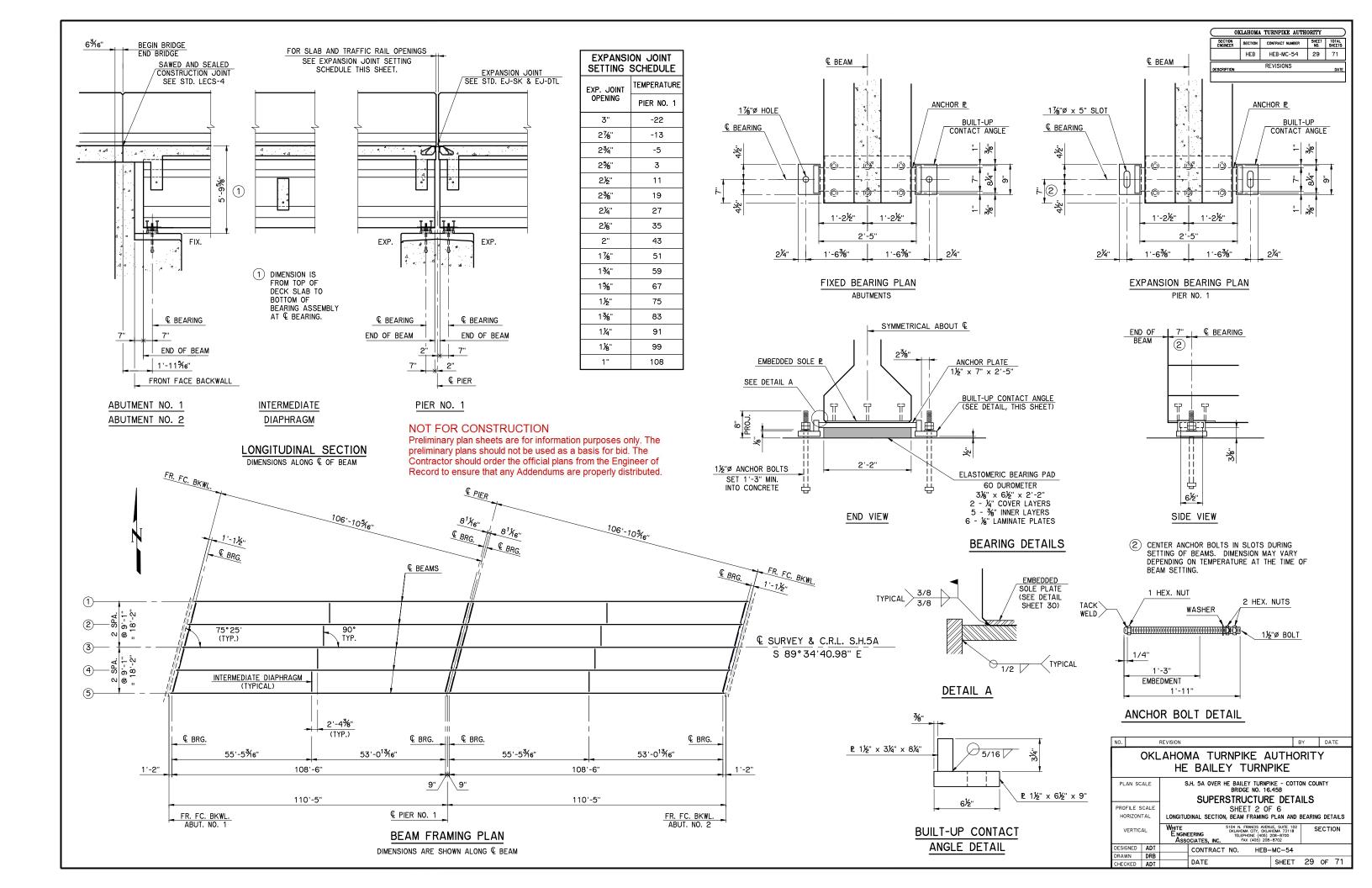
NO.			REVISION			Е	BY	DAT	ГЕ
	•	OKL		MA TURNPIK BAILEY T			RIT	Y	
PLAN SCALE S.H. 5A OVER HE BAILEY TURNPIKE - COTTON COUNTY BRIDGE NO. 16.45B SUPERSTRUCTURE DETAILS									
PROF	LE S	CALE		SHEE	T 1 0	F 6			
HOR	IZON'	TAL		TYPICAL C	ROSS	SECTION	١		
VE	RTIC	AL		W-ite					
DESIGN	IED	ADT		CONTRACT NO.	HEB-	-MC-54			
DRAW	ı	DRB							74
CHECK	ED	ADT		DATE		SHEET	28	OF	71

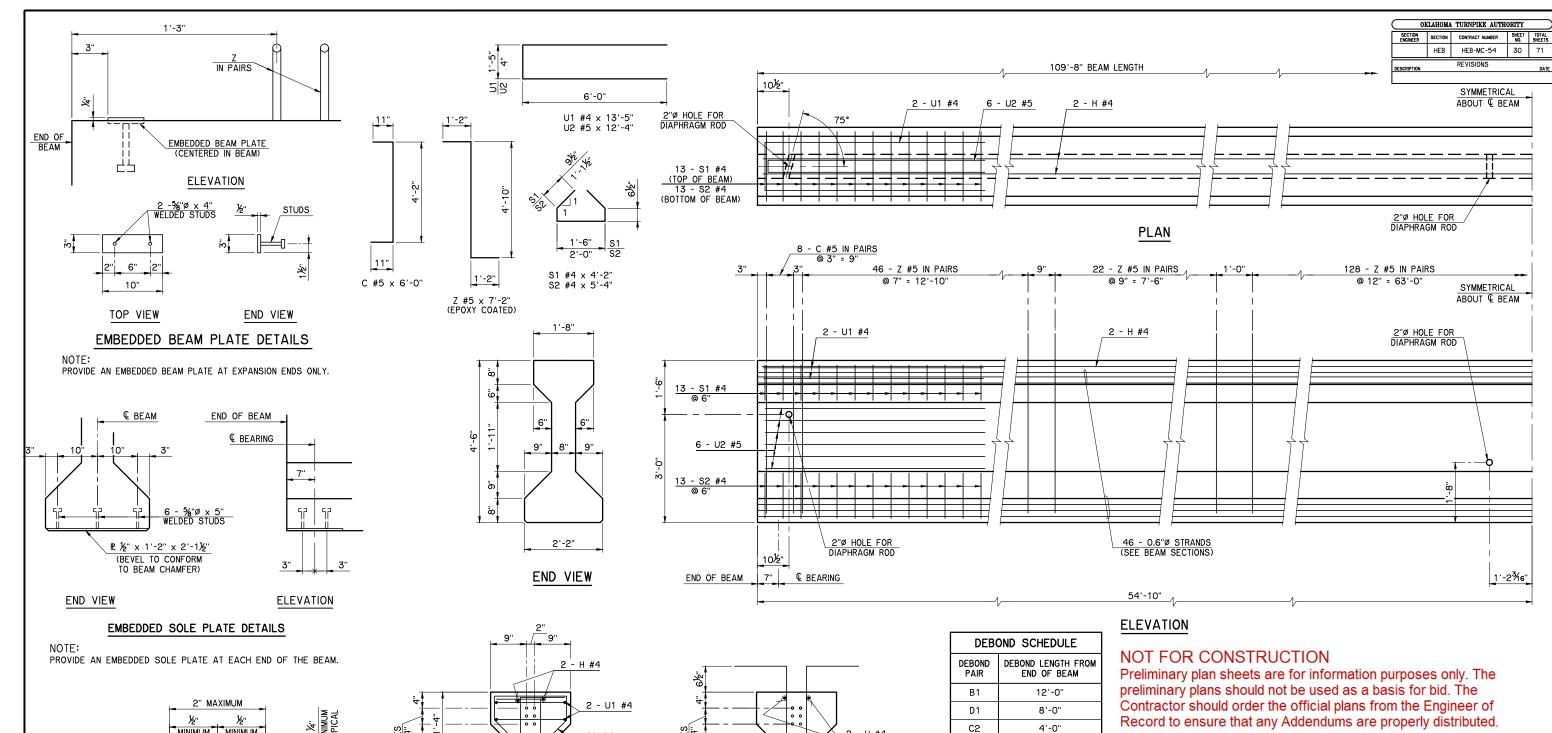
DIAPHRAGM BOLT NOTES
PROVIDE STRUCTURAL STEEL FOR DIAPHRAGM BOLTS AND PLATE WASHERS IN ACCORDANCE WITH AASHTO M270 (ASTM A709), GRADE 50W (WEATHERING STEEL, CHARPY V-NOTCH TESTING NOT REQUIRED). THE CONTRACTOR MAY SUBSTITUTE A #10 REINFORCING BAR IN ACCORDANCE WITH AASHTO M31, GRADE 60, AND THREADED AT THE PROVIDE HEX NUTS IN ACCORDANCE WITH AASHTO M291 (ASTM A563).

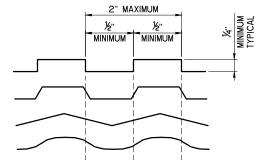
PAINT EXPOSED DIAPHRAGM BOLT, PLATE WASHER, BEVELED SPACER AND HEX NUT WITH

TWO (2) COATS OF ZINC-RICH PAINT (6 MIL MINIMUM THICKNESS) AFTER ASSEMBLY. INCLUDE ALL COST OF DIAPHRAGM BOLT, PLATE WASHER, BEVELED SPACER AND HEX NUT IN THE CONTRACT UNIT PRICE FOR STRUCTURAL STEEL. USE STRUCTURAL STEEL FOR BEVELED SPACER CONFORMING TO AASHTO 53, GRADE B.



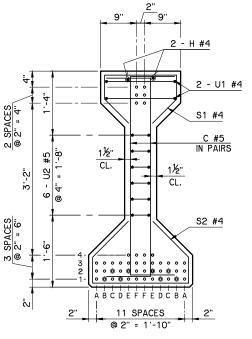






INTENTIONALLY ROUGHENED SURFACE DETAILS

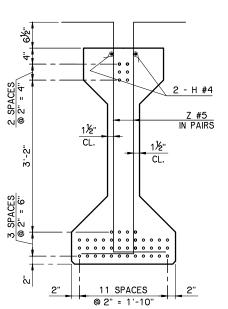
INTENTIONALLY ROUGHEN THE ENTIRE TOP SURFACE OF P.C. BEAM TO A MINIMUM HEIGHT OF 1/4" OVER A MAXIMUM PITCH OF 2" MEASURED LONGITUDINALLY ALONG THE LENGTH OF THE BEAM. PROVIDE A CREST AND TROUGH ASSOCIATED WITH THE HEIGHT OF NOT LESS THAN 1/2". PRODUCE THE ROUGHENED SURFACE BY USING A SPECIAL TROWEL TO FORM ONE OF THE SURFACES SHOWN IN THE DETAILS, BY CLEANING THE CONCRETE SURFACE WITH A STIFF WIRE BRUSH (OR BLASTING) TO EXPOSE THE AGGREGATE TO A HEIGHT OF 1/4", OR BY USING ANOTHER APPROVED METHOD. SUBMIT THE METHOD TO BE USED FOR APPROVAL BY THE ENGINEER. REPAIR ANY DAMAGE TO REINFORCEMENT'S EPOXY COATING BEFORE PLACEMENT OF DECK CONCRETE.



END SECTION

BEAM SECTIONS

(46 - 0.6"Ø STRANDS)



€ SECTION

E2 10'-0" 108'-6' DEAD LOAD DEFLECTION DIAGRAM

NOTE:

THE DEAD LOAD DEFLECTION SHOWN ABOVE AT THE TENTH POINTS ARE THE INITIAL DEFLECTIONS DUE TO DECK SLAB -DIAPHRAGMS + HAUNCH + CONCRETE TRAFFIC RAIL. IT DOES NOT INCLUDE THE BEAM WEIGHT OR FUTURE WEARING SURFACE.

Record to ensure that any Addendums are properly distributed.

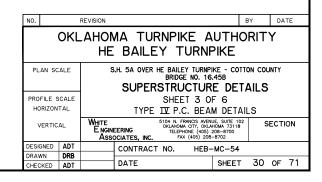
PRESTRESSED CONCRETE BEAM NOTES

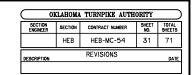
COMPRESSIVE STRENGTH:

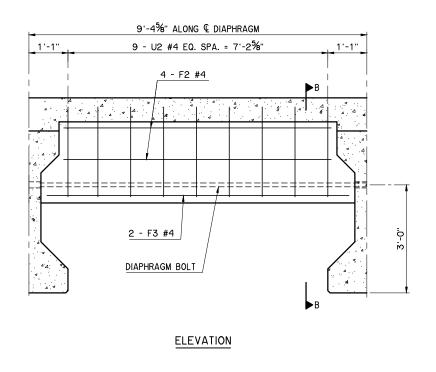
PROVIDE CONCRETE WITH A COMPRESSIVE STRENGTH OF 7,000 P.S.I. AT TRANSFER OF PRESTRESS AND 10,000 P.S.I. AT 28 DAYS.

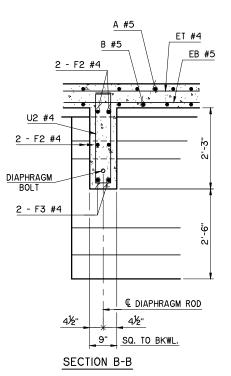
STRAND TYPF:

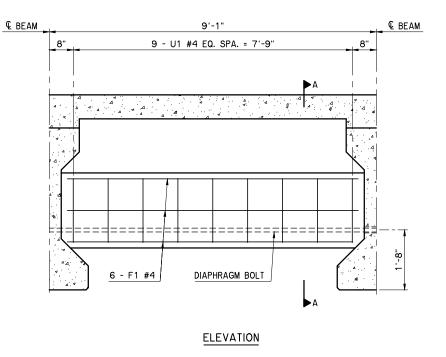
PROVIDE LOW-RELAXATION STRANDS HAVING A NOMINAL DIAMETER OF O.6" WITH ULTIMATE TENSILE STRENGTH OF

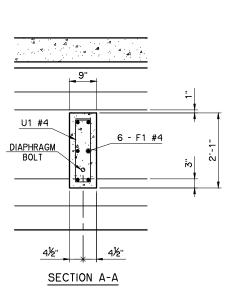








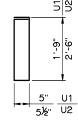




INTERMEDIATE DIAPHRAGM DETAILS

END DIAPHRAGM DETAILS

DIAPHRAGM DETAILS



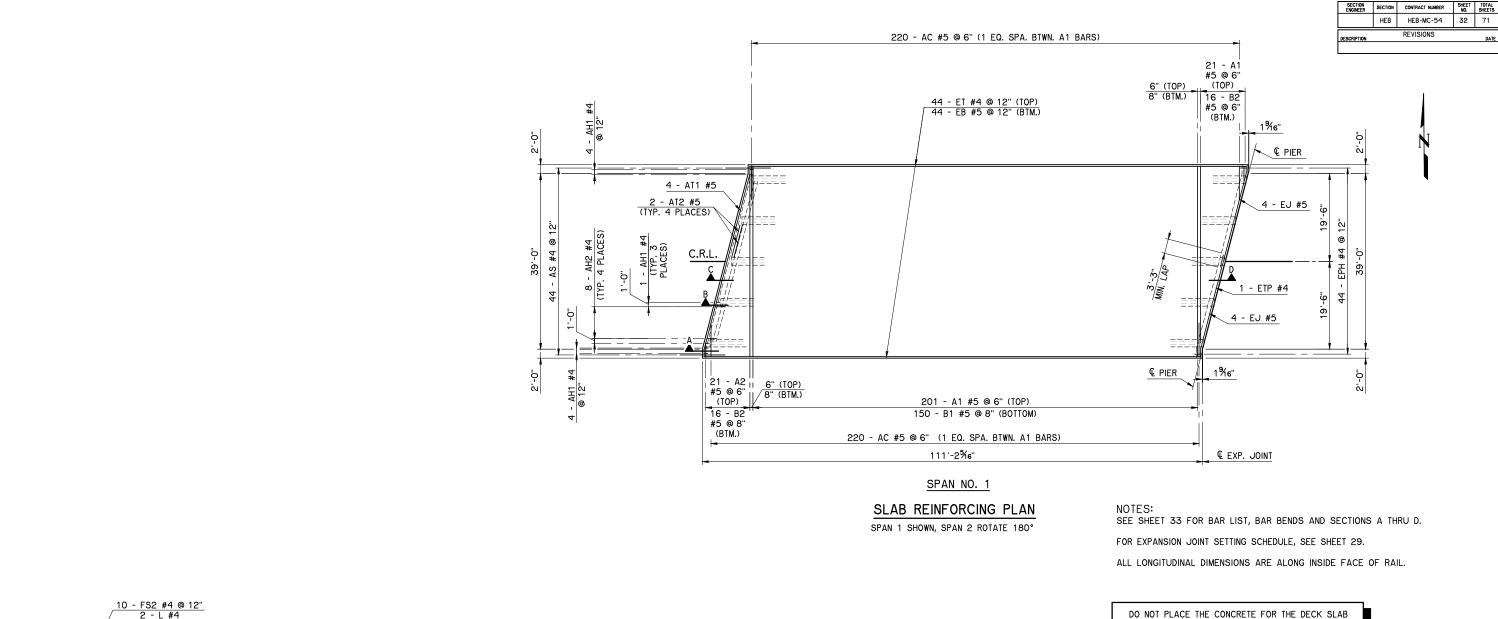
U1 #4 x 4'-9" U2 #4 X 6'-4½"

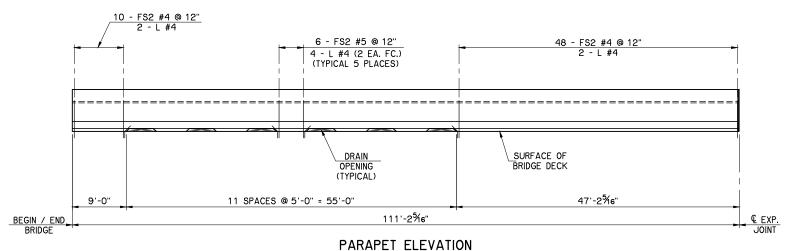
NOTE: FOR ADDITIONAL DETAILS AND BAR LIST, SEE SHEET 33.

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

NO.		REVISION				3Y	DA.	TE	
OKLAHOMA TURNPIKE AUTHORITY HE BAILEY TURNPIKE									
PLAN SC	CALE	s	S.H. 5A OVER HE BAILEY TURNPIKE - COTTON COUNTY BRIDGE NO. 16.45B SUPERSTRUCTURE DETAILS						
PROFILE S	CALE			ET 4 0					
HORIZON	TAL		DIAPHRAGM DETAILS						
VERTIC	AL		5104 N. FRANCIS AVENUE, SUITE 102 OKLAHOMA CITY, OKLAHOMA 73118 SINEERING TELEPHONE (405) 208-8700 SSOCIATES. INC. FAX (405) 208-8702						
DESIGNED	ADT		CONTRACT NO.	HEB-	-MC-54				
DRAWN	DRB					7.4		74	
CHECKED	ADT		DATE		SHEET	31	OF	71	





SPAN 1 SHOWN, SPAN 2 MIRRORED

ALL DIMENSIONS ARE ALONG INSIDE FACE OF PARAPET.

FOR ADDITIONAL DETAIL, SEE STD. FSHP-42.

FOR BAR LIST, SEE SHEET 33.

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

NO.	IO. REVISION							BY	DA	TE	
	OKLAHOMA TURNPIKE AUTHORITY HE BAILEY TURNPIKE										
PL	PLAN SCALE		S.H. 5A OVER HE BAILEY TURNPIKE - COTTON COUNTY BRIDGE NO. 16.45B SUPERSTRUCTURE DETAILS								
PRO	FILE S	CALE		SHEET 5 OF 6							
н	HORIZONTAL		SLAB REINFORCING PLAN AND PARAPET ELEVATION								
\	VERTICAL			5104 N. FRANCIS AVENUE, SUITE 102 OKLAHOMA CITY, OKLAHOMA 73118 NEERING TELEPHONE (405) 208-8700 SOCIATES, INC. FAX (405) 208-8702					ION		
DESK	SNED	ADT		CONTRACT	NO.	HEB-	MC-54				
DRAV	٧N	DRB					0	. 70		71	
CHEC	KED	ADT		DATE			SHEET	32	OF	7.1	

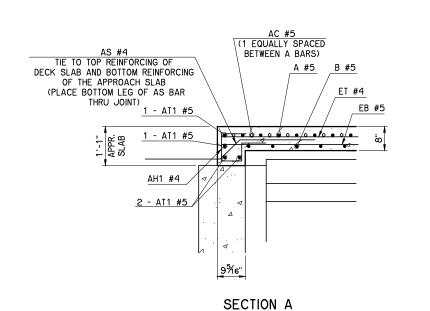
OR APPLY OTHER MASSIVE LOADS TO THE BEAMS OR

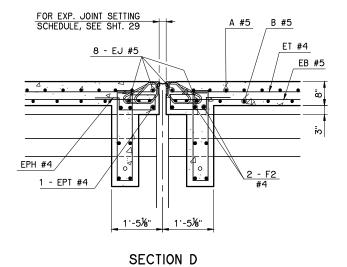
DIAPHRAGMS UNTIL THE CONCRETE IN THE DIAPHRAGMS HAS BEEN IN PLACE A MINIMUM OF 10 DAYS OR AT THE DISCRETION OF THE ENGINEER. THE ENGINEER

MAY APPROVE SHORTENED TIME IF THE BEAM AND DIAPHRAGM CONCRETE HAS ATTAINED 80% OF THE SPECIFIED COMPRESSIVE STRENGTH.

OKLAHOMA TURNPIKE AUTHORITY

.ctive\1334\DWG\32 Slab.dwg, 2/10/2015 2:32:08 PM, Deanno

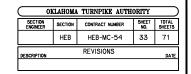




EPH #4 x 3'-1"

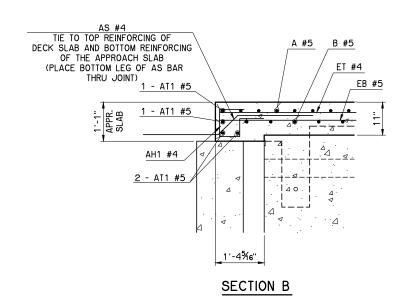
NOT FOR CONSTRUCTION

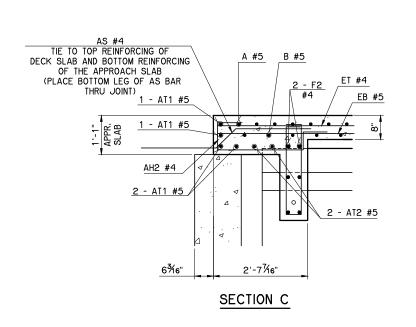
Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

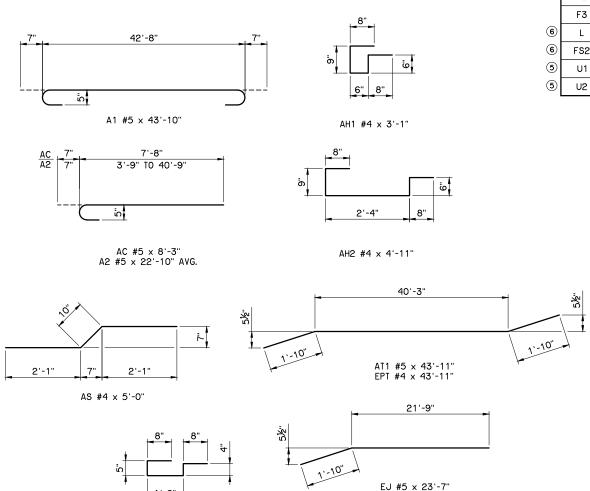


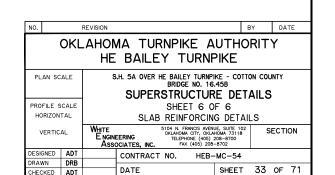
	_		SUPE	RSTRUC	CTURE BAR L	IST
	MARK	SIZE	NO.	FORM	LENGTH	LENGTH VARIATION
			EPOX	Y COATED	REINFORCING BA	ARS
	Α1	#5	402	BNT.	43'-10"	
1	A2	#5	84	BNT.	22'-10" AVG.	4'-4" TO 41'-4"
	AH1	#4	22	BNT.	3'-1"	
	AH2	#4	64	BNT.	4'-11"	
	AC	#5	880	BNT.	8'-3"	
	AS	#4	88	BNT.	5'-0"	
	AT1	#5	8	BNT.	43'-11"	
	AT2	#5	16	STR.	7'-4"	
	В1	#5	300	STR.	42'-8"	
2	B2	#5	64	STR.	22'-7" AVG.	4'-4" TO 40'-10"
3	ET	#4	88	STR.	112'-11"	
4	EB	#5	88	STR.	114'-2"	
	EPH	#4	88	BNT.	3'-1"	
	EPT	#4	2	BNT.	43'-11"	
	EJ	#5	16	BNT.	23'-7"	
	F1	#4	48	STR.	8'-1"	
	F2	#4	64	STR.	7'-4"	
	F3	#4	32	STR.	8'-4"	
6	L	#4	96	BNT.	1'-3"	
6	FS2	#5	352	BNT.	7'-4"	
5	U1	#4	72	BNT.	4'-9"	
5	U2	#4	144	BNT.	6'-4½"	
		① 4 SE	TS OF	21 BARS		

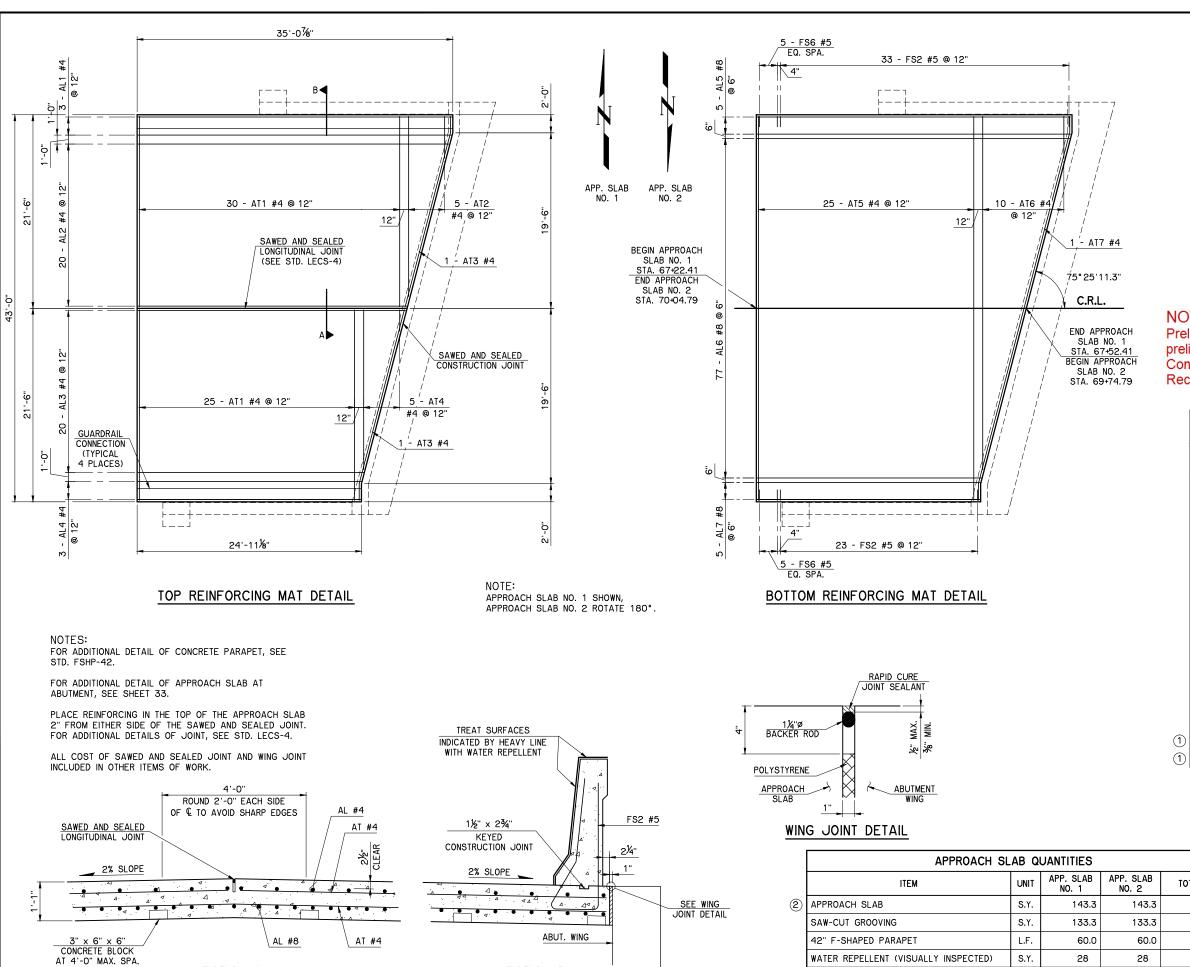
- 1 4 SETS OF 21 BARS
- (2) 4 SETS OF 16 BARS
- (3) INCLUDES 1 2'-0" MINIMUM LAP LENGTH
- 4 INCLUDES 1 3'-3" MINIMUM LAP LENGTH
- ⑤ SEE SHEET NO. 31 FOR BAR BENDS.
- (6) REFER TO STD. FSHP-42 FOR BAR BENDS.











SECTION B

(EACH DIRECTION)

SECTION A

		HEB	HEB-MC-54	34	71
	DESCRIPTION		REVISIONS		DATE
AT3 #4 x 21'-10"	40.9	51/2"	.011 5½"		DAIL

OKLAHOMA TURNPIKE AUTHORITY

SECTION ENGINEER SECTION CONTRACT NUMBER SHEET TOTAL SHEETS

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

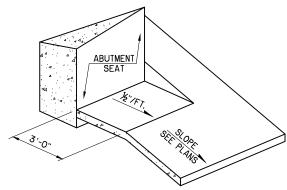
				SLAB BAR L , TWO REQUIRED	
MARK	SIZE	NO.	FORM	LENGTH	LENGTH VARIATION
		EPOX	Y COATED	REINFORCING B	ARS
AT1	#4	55	STR.	21'-2"	
AT2	#4	5	STR.	12'-4" AVG.	4'-8" TO 20'-0"
AT3	#4	2	BNT.	21'-10"	
AT4	#4	5	STR.	10'-1" AVG.	2'-5" TO 17'-9"
AT5	#4	25	STR.	42'-8"	
AT6	#4	10	STR.	22'-0" AVG.	4'-9" TO 39'-3"
AT7	#4	1	BNT.	43'-11"	
AL1	#4	3	STR.	34'-10"	
AL2	#4	20	STR.	32'-3" AVG.	29'-10" TO 34'-8"
AL3	#4	20	STR.	27'-5" AVG.	25'-1" TO 29'-9"
AL4	#4	3	STR.	24'-9"	
AL5	#8	5	STR.	34'-10"	
AL6	#8	77	STR.	29'-10" AVG.	24'-11" TO 34'-9"
AL7	#8	5	STR.	24'-9"	
FS2	#5	56	BNT.	7'-4"	
FS6	#5	10	BNT.	7'-6½"	

(1) FOR BAR BEND, SEE STD. FSHP-42.

	APPROACH SL	AB Q	UANTITIES		
	ITEM	UNIT	APP. SLAB NO. 1	APP. SLAB NO. 2	TOTAL
2	APPROACH SLAB	S.Y.	143.3	143.3	286.6
	SAW-CUT GROOVING	S.Y.	133.3	133.3	266.6
	42" F-SHAPED PARAPET	L.F.	60.0	60.0	120.0
	WATER REPELLENT (VISUALLY INSPECTED)	S.Y.	28	28	56

(2) THE CONTRACT UNIT PRICE FOR "APPROACH SLAB" INCLUDES THE PRICE FOR CONCRETE, EPOXY COATED REINFORCING STEEL (INCLUDING FS2 BARS), LAP SPLICES, BACKER ROD, RAPID CURE JOINT SEALANT, POLYSTYRENE, LABOR AND EQUIPMENT, FILL AND/OR EXCAVATION.

NO.		REVISION			3Y	DATE			
OKLAHOMA TURNPIKE AUTHORITY HE BAILEY TURNPIKE									
PLAN SCALE		S.H. 5A OVER HE BAILEY TURNPIKE - COTTON COUNTY BRIDGE NO. 16.45B							
PROFILE SCALE HORIZONTAL			APPROAC	H SLA	B DETA	AILS			
VERTICAL			OKLAH	. FRANCIS AVEN IOMA CITY, OKLA EPHONE (405) FAX (405) 208	HOMA 73118 208-8700	s	ECTION		
DESIGNED	KGL		CONTRACT NO.	HEB-	-MC-54				
DRAWN CHECKED	DRB		DATE		SHEET	34	of 71		

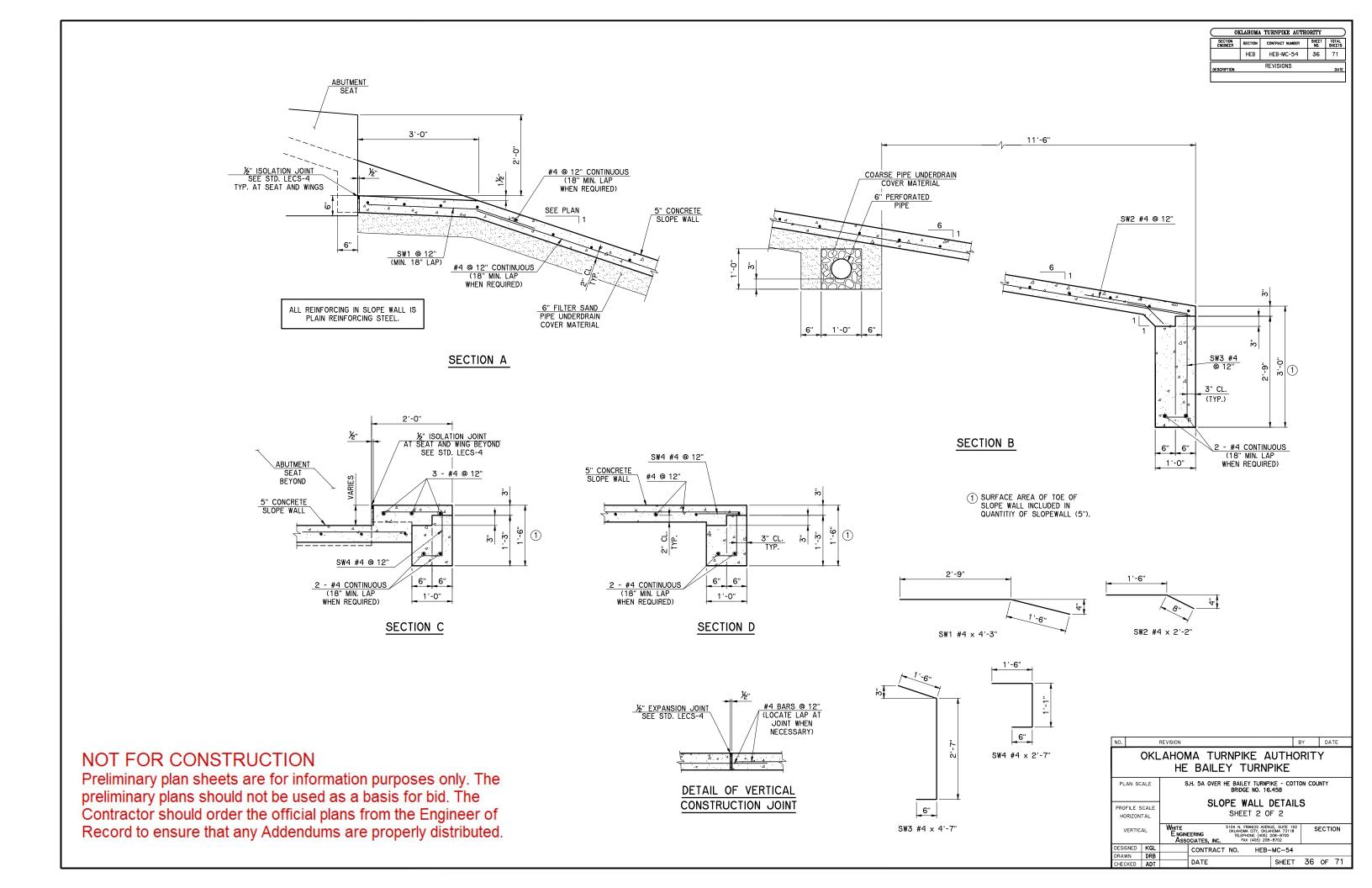


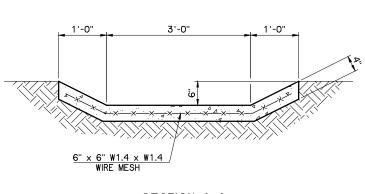
ISOMETRIC VIEW
AT END OF ABUTMENTS

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

	SLOPE WALL QUANTITIES								
	ITEM		ITEM UNIT SLOPE WALL SLOPE WALL NO. 2		TOTAL				
)	SLOPE WALL (5")		563	558	1,121				
	6" PERFORATED PIPE UNDERDRAIN ROUND	L.F.	69	69	138				
	6" NON-PERF. PIPE UNDERDRAIN RND.	L.F.	30	30	60				

NO.	REVISION						DA	ΤE		
	OKLAHOMA TURNPIKE AUTHORITY HE BAILEY TURNPIKE									
PLAN SCALE		s	S.H. 5A OVER HE BAILEY TURNPIKE - COTTON COUNTY BRIDGE NO. 16.45B							
PROFILE SCALE HORIZONTAL			SLOPE WALL DETAILS SHEET 1 OF 2							
VERTICAL			EERING OKLAHON	FRANCIS AVENI MA CITY, OKLA PHONE (405) : AX (405) 208	208-8700	s	ECT	NC		
DESIGNED	KGL		CONTRACT NO.	HEB-	-MC-54					
DRAWN	DRB		DATE		SHEET	75	~=	71		

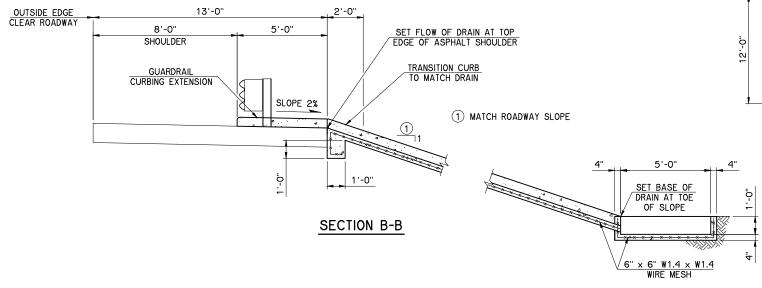


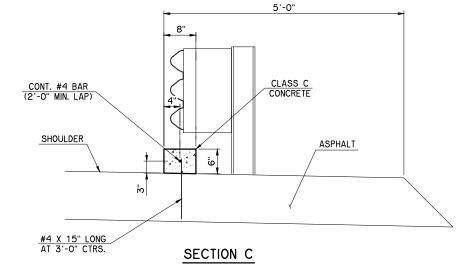


SECTION A-A

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.







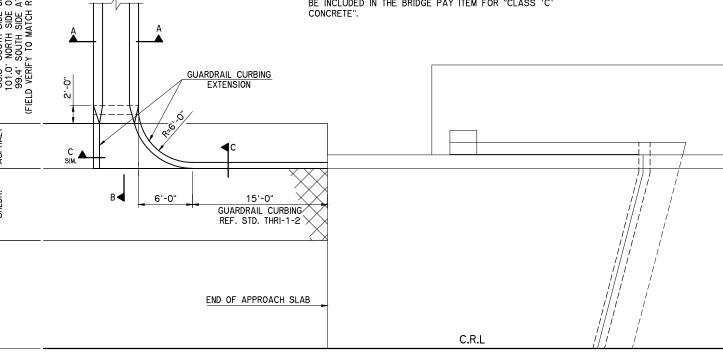
OKLAHOMA TURNPIKE AUTHORITY

NOTES:

1. ALL DIMENSIONS ARE PLAN DIMENSIONS.

2. CONSTRUCT SLOPE DRAINS AND SPLASH BASINS USING CLASS C CONCRETE AS SHOWN ON THIS SHEET. ALL COST OF THE SLOPE DRAINS AND SPLASH BASINS INCLUDING CONCRETE, REINFORCING STEEL AND WIRE MESH IS TO BE INCLUDED IN THE PAY ITEM PER C.Y. OF "CLASS C CONCRETE."

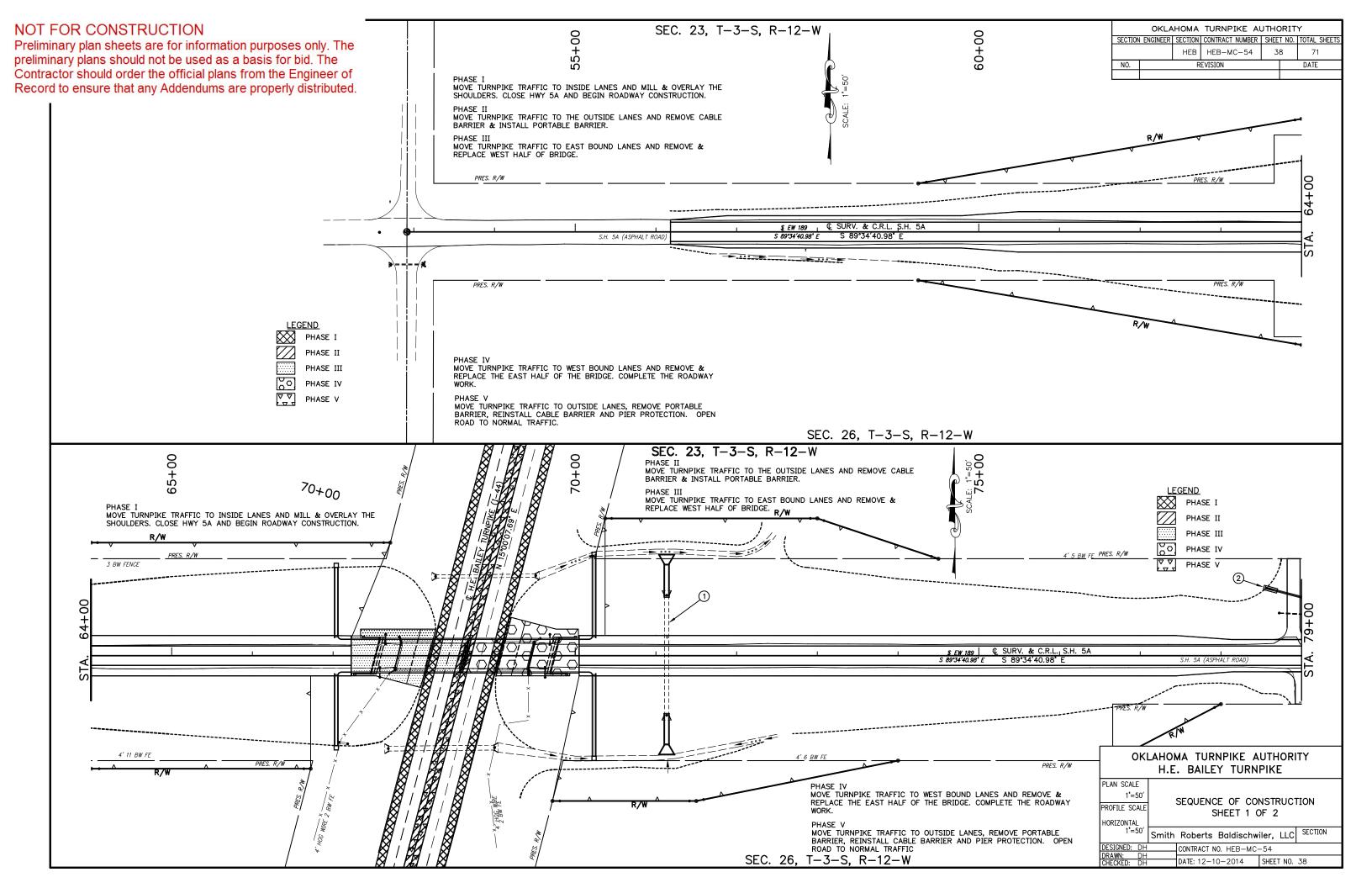
3. GUARDRAIL CURBING EXTENSION SHALL BE CONSTRUCTED AS SHOWN ON THIS SHEET USING CLASS 'C' CONCRETE. ALL COSTS TO CONSTRUCT THE CURBS INCLUDING REINFORCING STEEL SHALL BE INCLUDED IN THE BRIDGE PAY ITEM FOR "CLASS 'C"



DRAINAGE DETAIL ONE SHOWN, FOUR REQUIRED

DRAINAGE QUANTITIES UNIT ABUT. NO. 1 ABUT. NO. 1 ABUT. NO. 2 ABUT. NO. 2 NORTH SIDE SOUTH SIDE NORTH SIDE SOUTH SIDE CLASS C CONCRETE C.Y. 5.9 7.0 25.8

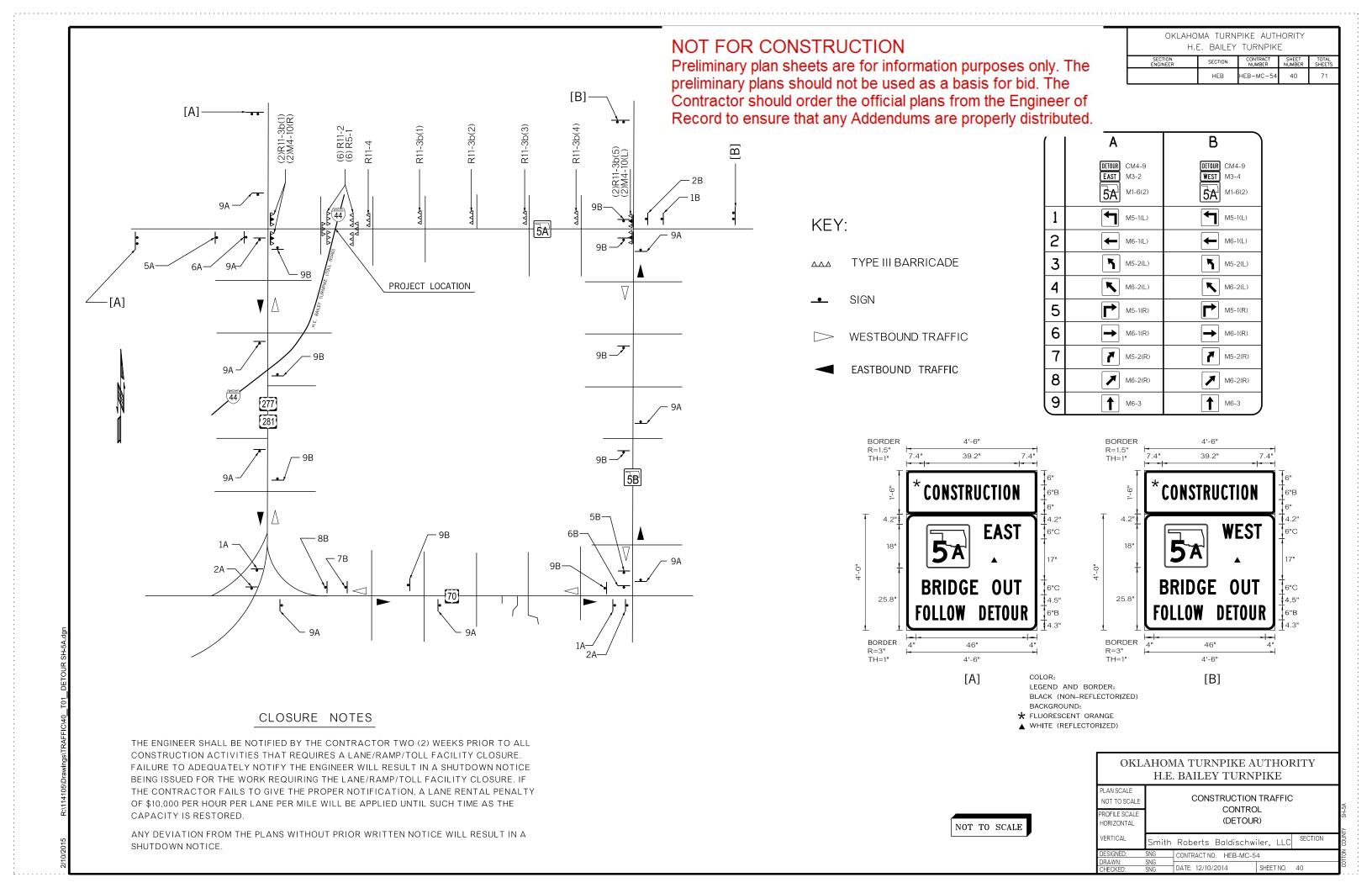
NO.		REVISION	BY	DATE
·	OKL	AHOMA TURNPIKE AUT. HE BAILEY TURNPIK		Y
PLAN	SCALE	S.H. 5A OVER HE BAILEY TURNPIKE - BRIDGE NO. 16.45B	COTTON CO	UNTY
	SCALE ONTAL	DRAINAGE DETAIL ENDS OF BRID		
VERT	ΓΙCAL	WHITE 5104 N. FRANCIS AVENUE, SUI OKLAHOMA CITY, OKLAHOMA TEPHONE (405) 208–8702 ASSOCIATES, INC. FAX (405) 208–8702	3118	SECTION
DESIGNE	KGL	CONTRACT NO. HEB-MC-	-54	
DRAWN	DRB		77	74
CHECKED	ADT	DATE SHI	ЕЕТ 37	OF /1

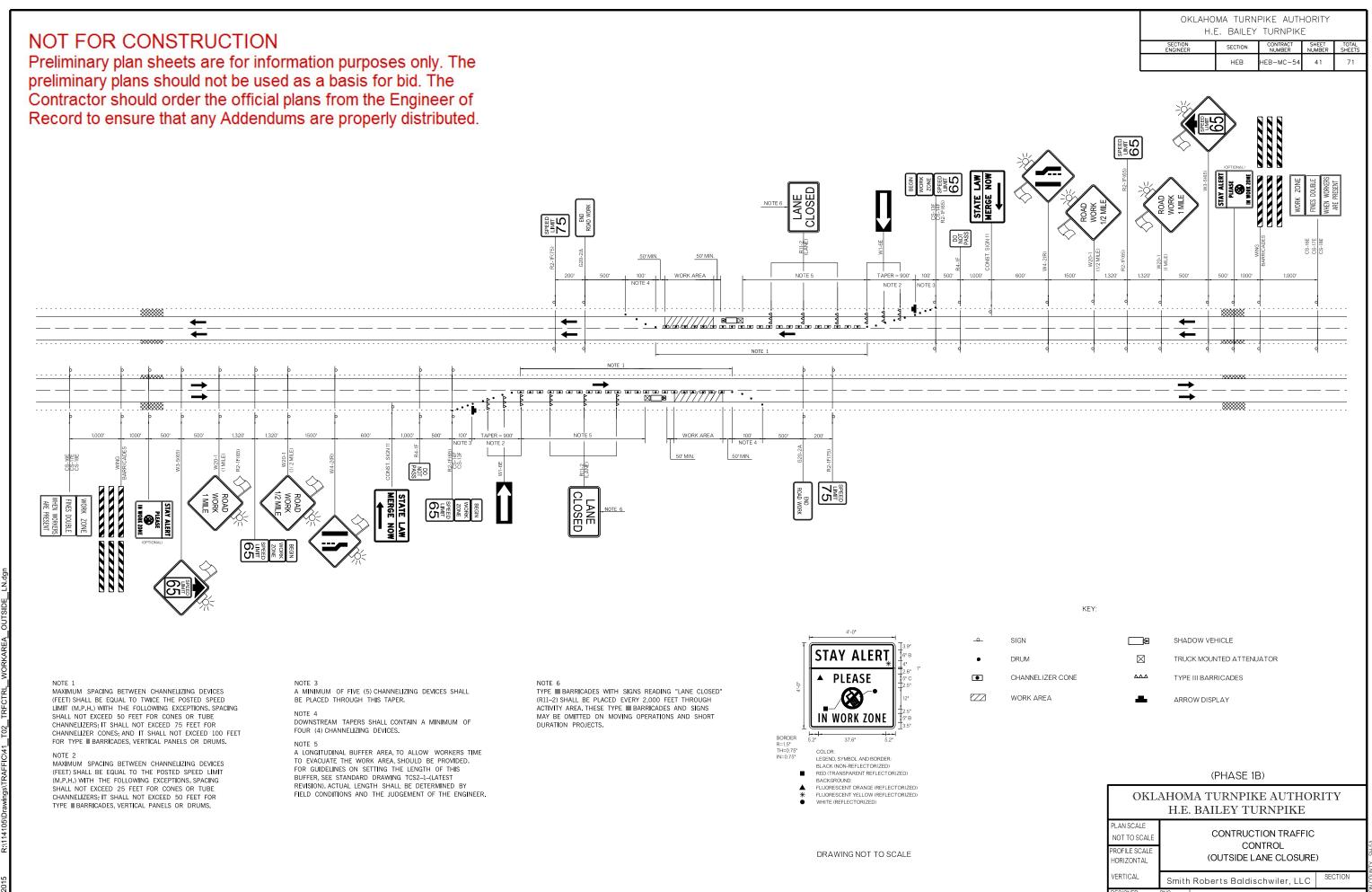


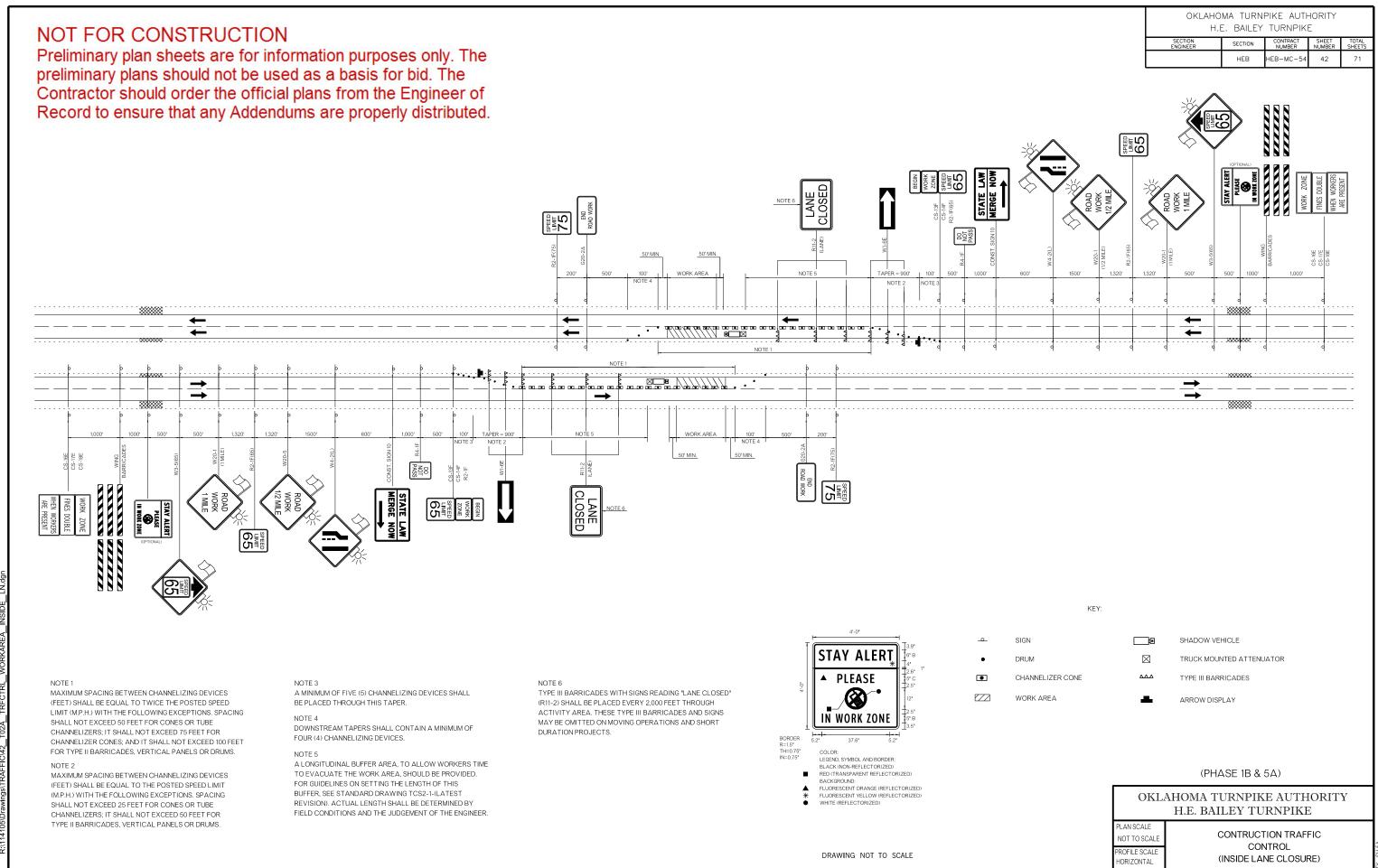
NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

ОКІ		MA TURNP . BAILEY		• •	TY
PLAN SCALE 1"=50'		SEQUENCE	OF COL	VSTRUCI	TON
PROFILE SCALE HORIZONTAL			ET 2 (1011
1"=50′	Smith	Roberts Ba	ldischw	iler, LLC	SECTION
DESIGNED: DH		CONTRACT NO. H	нев-мс-	-54	
DRAWN: DH CHECKED: DH		DATE: 12-10-2	2014	SHEET NO.	39

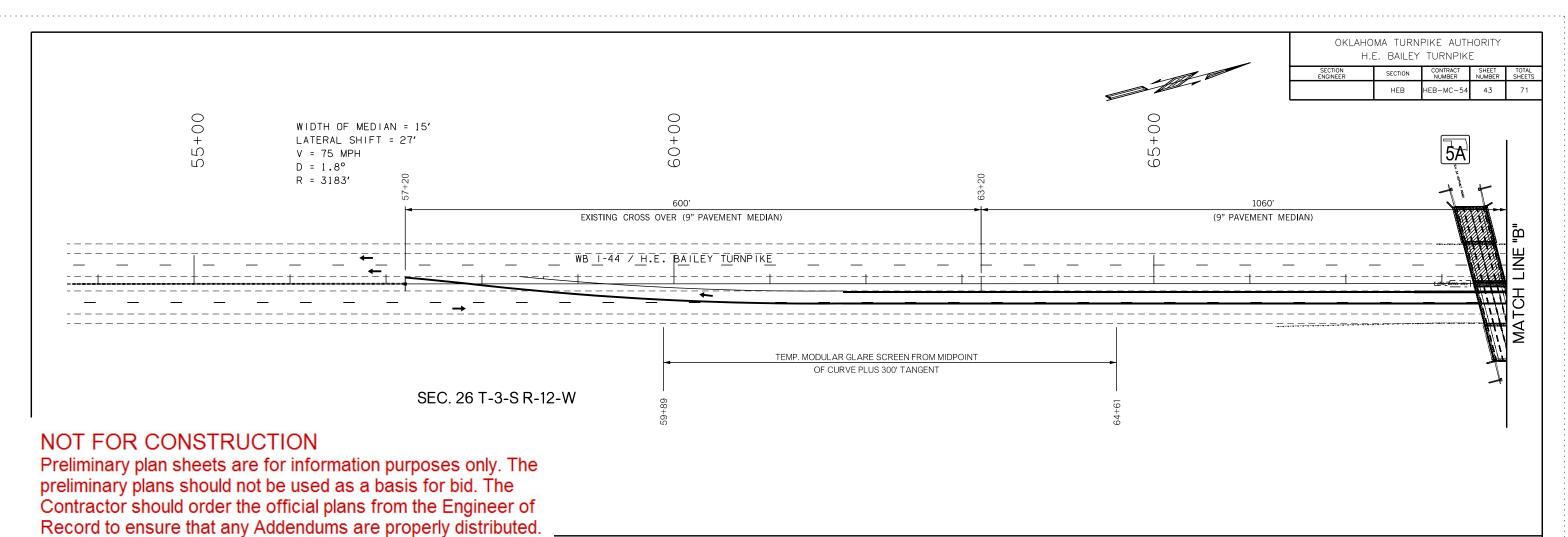


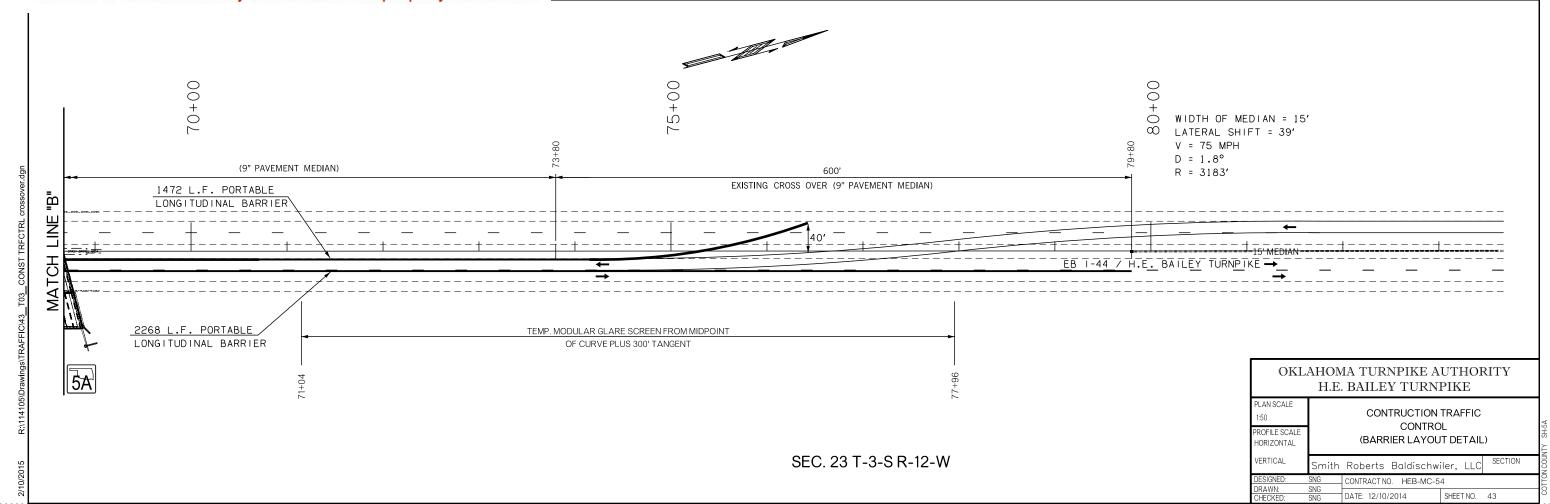


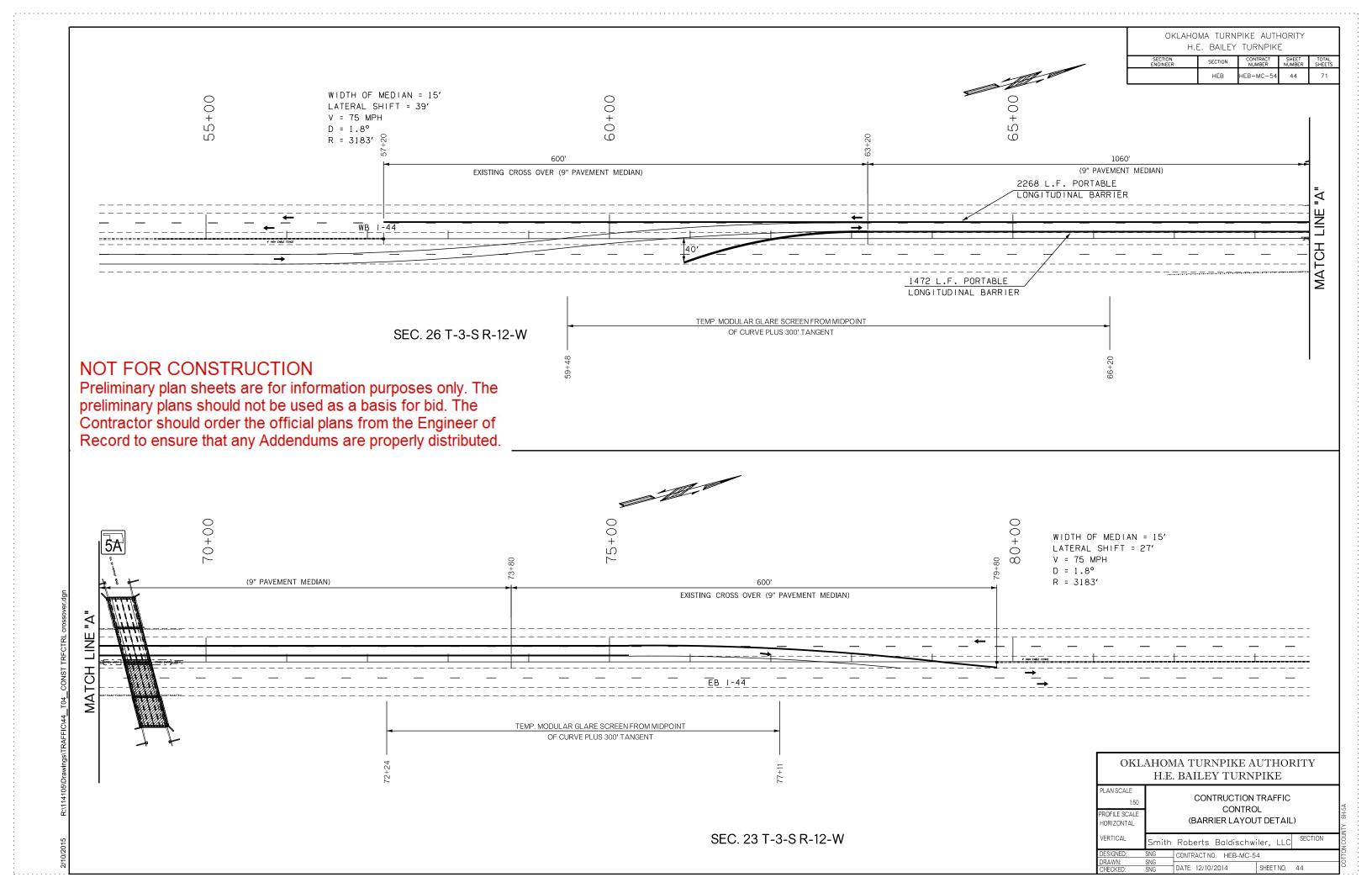


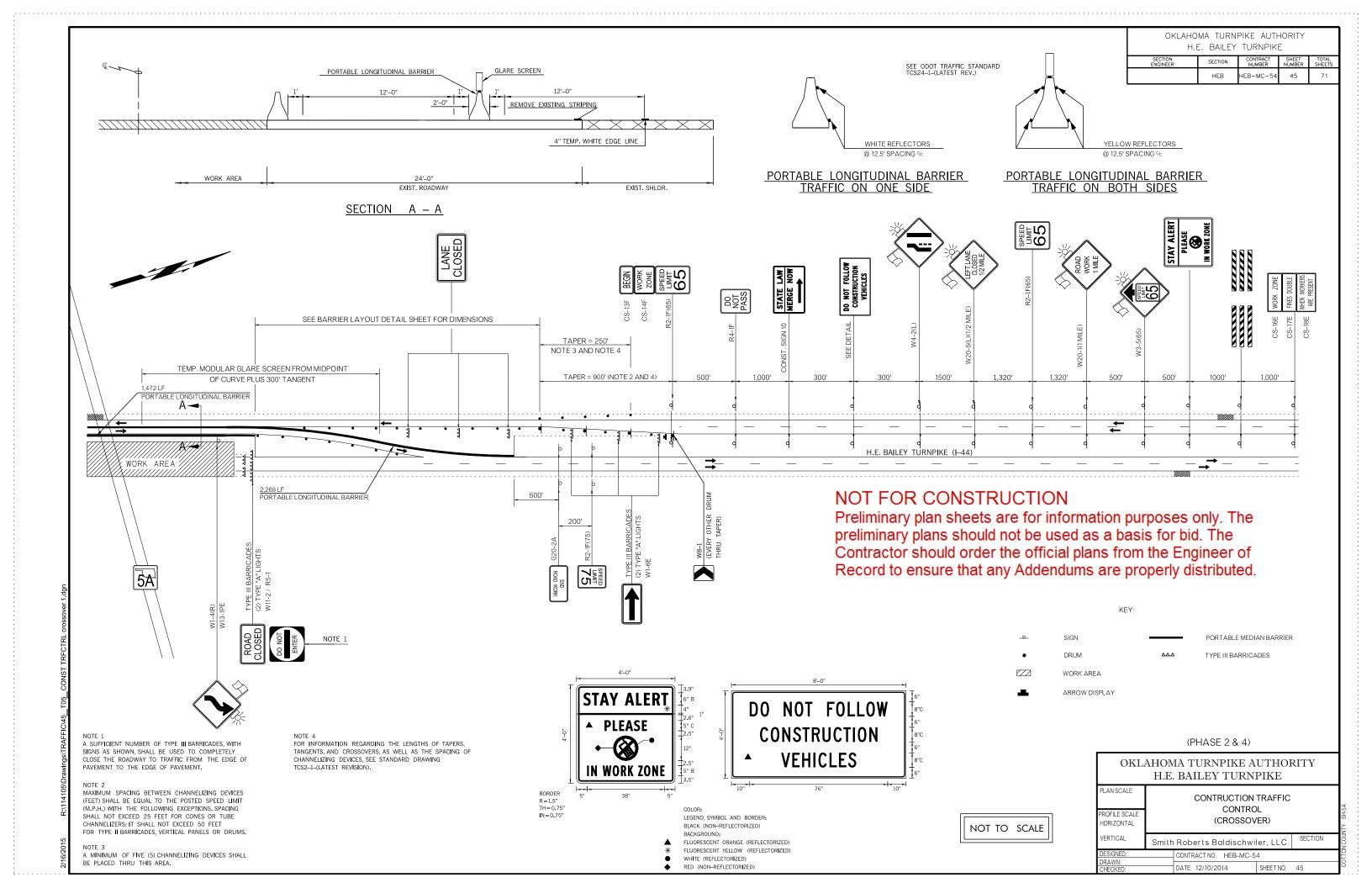
Smith Roberts Baldischwiler, LLC

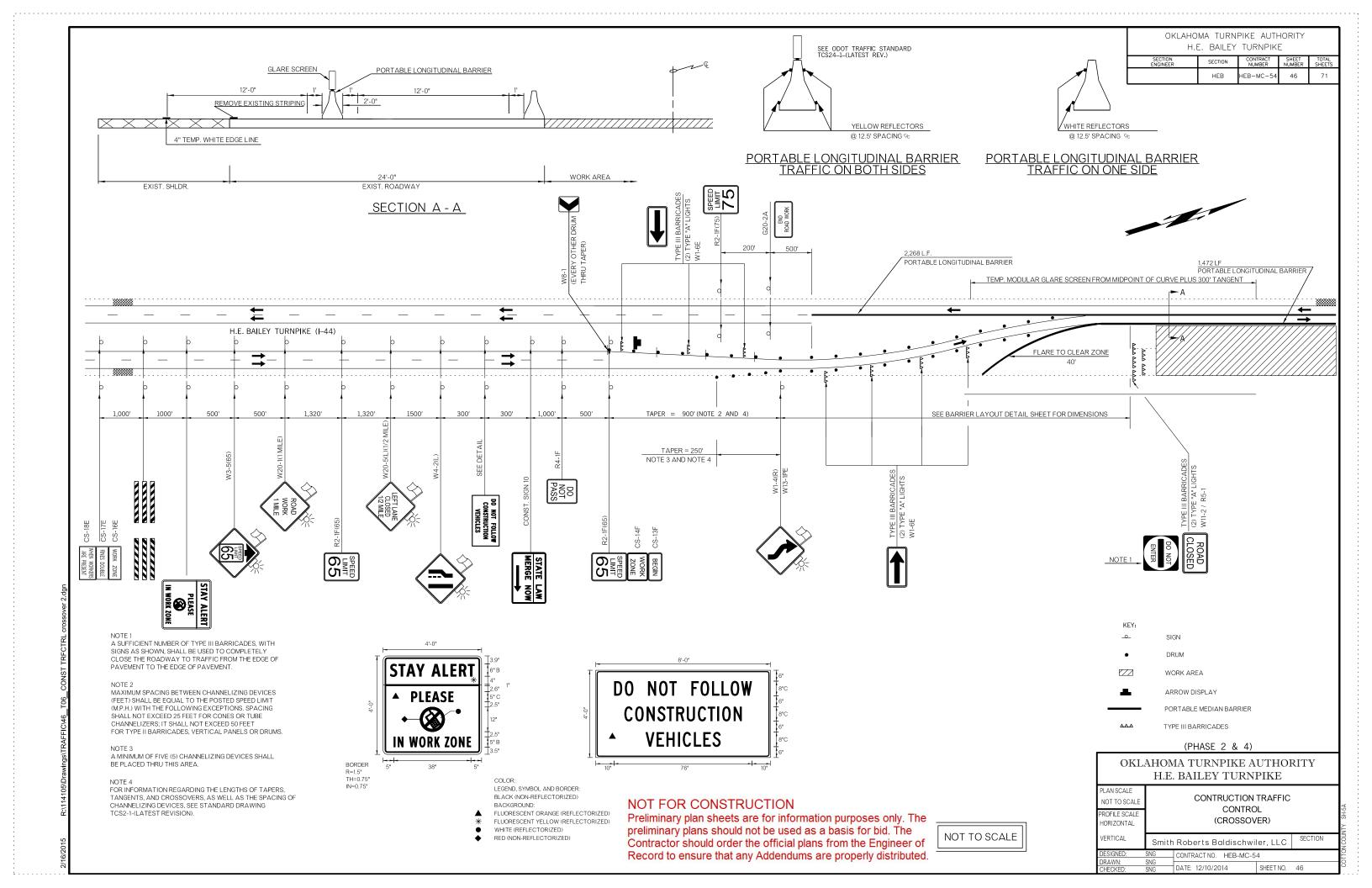
.

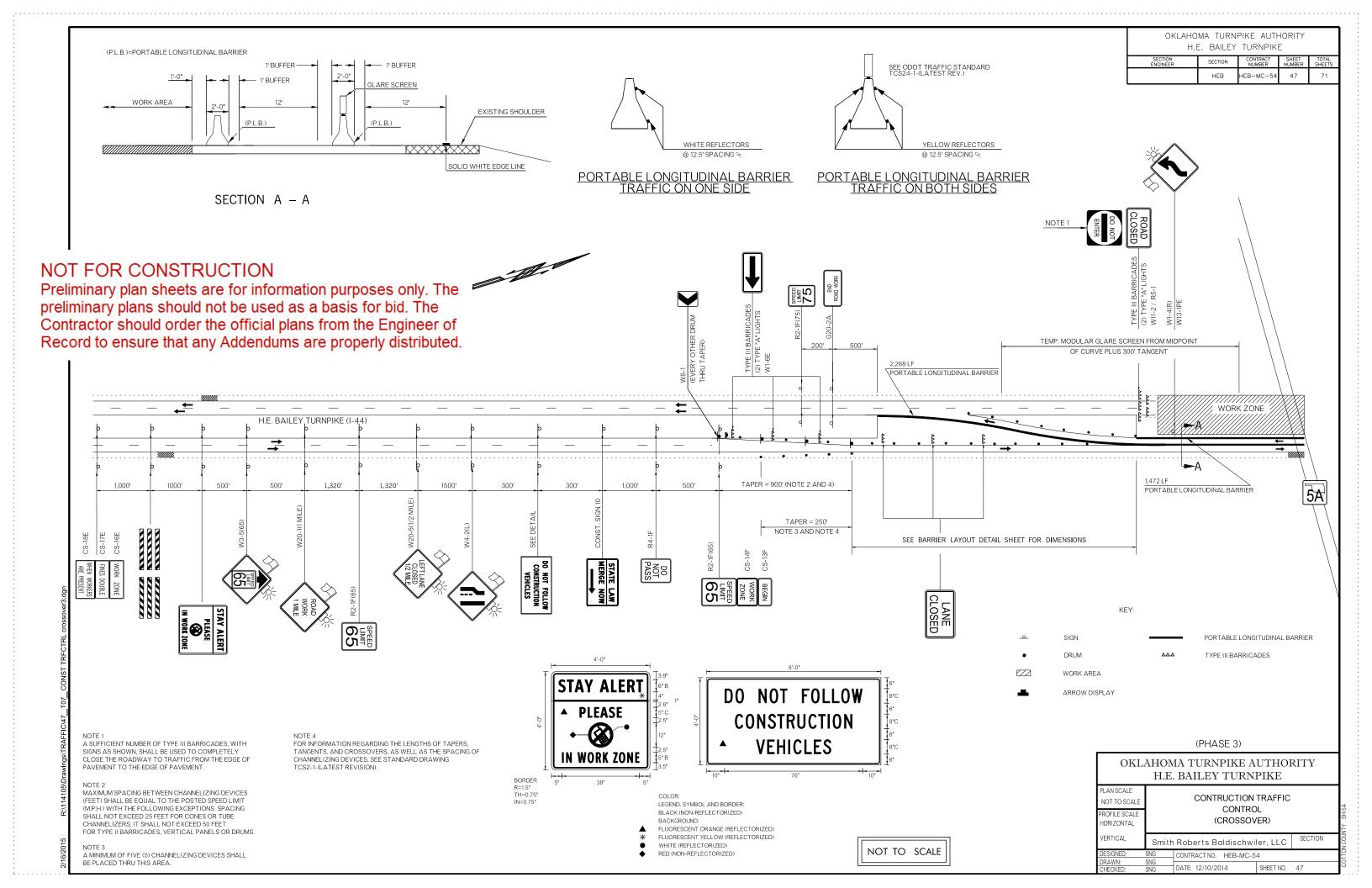


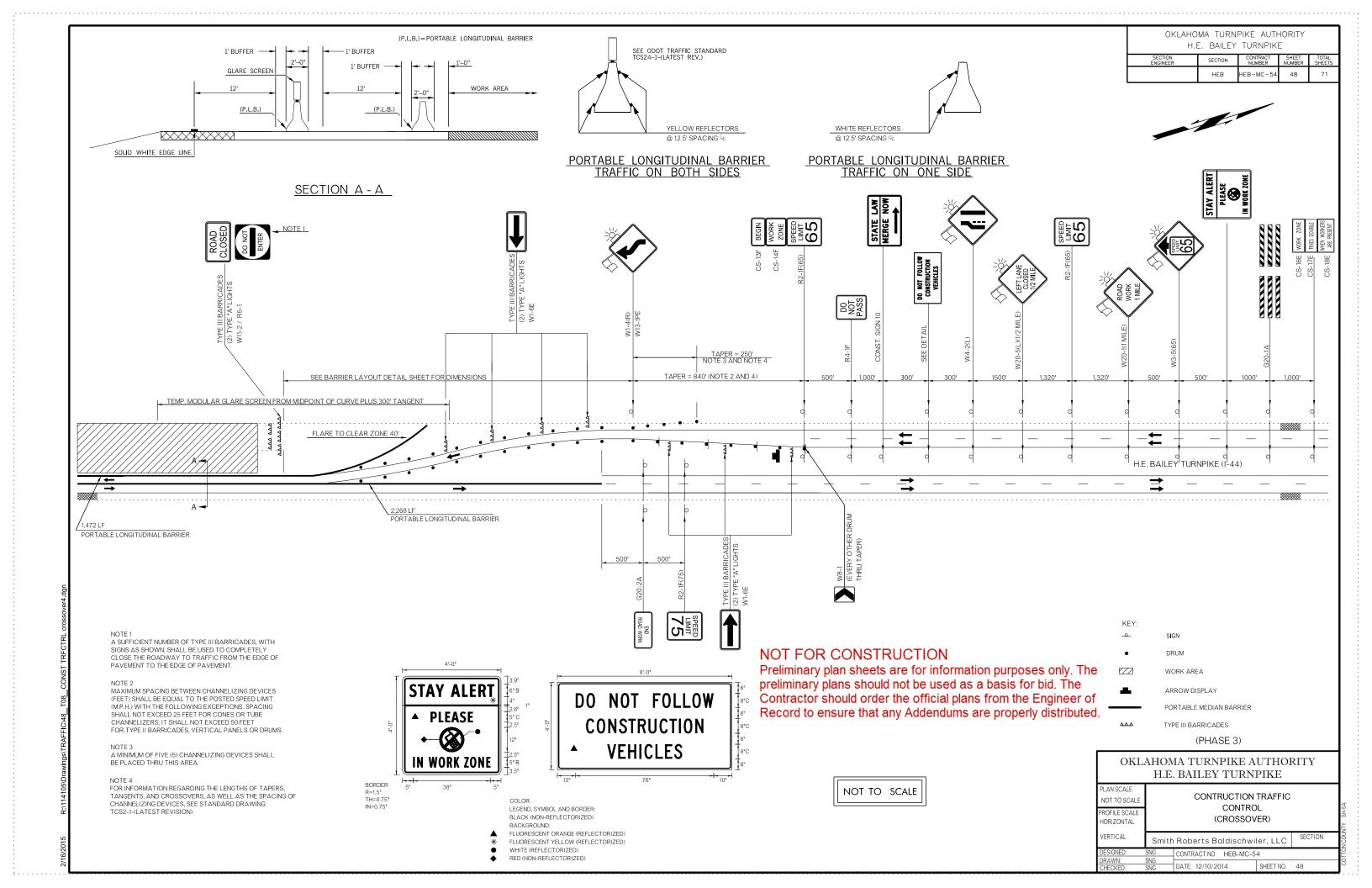


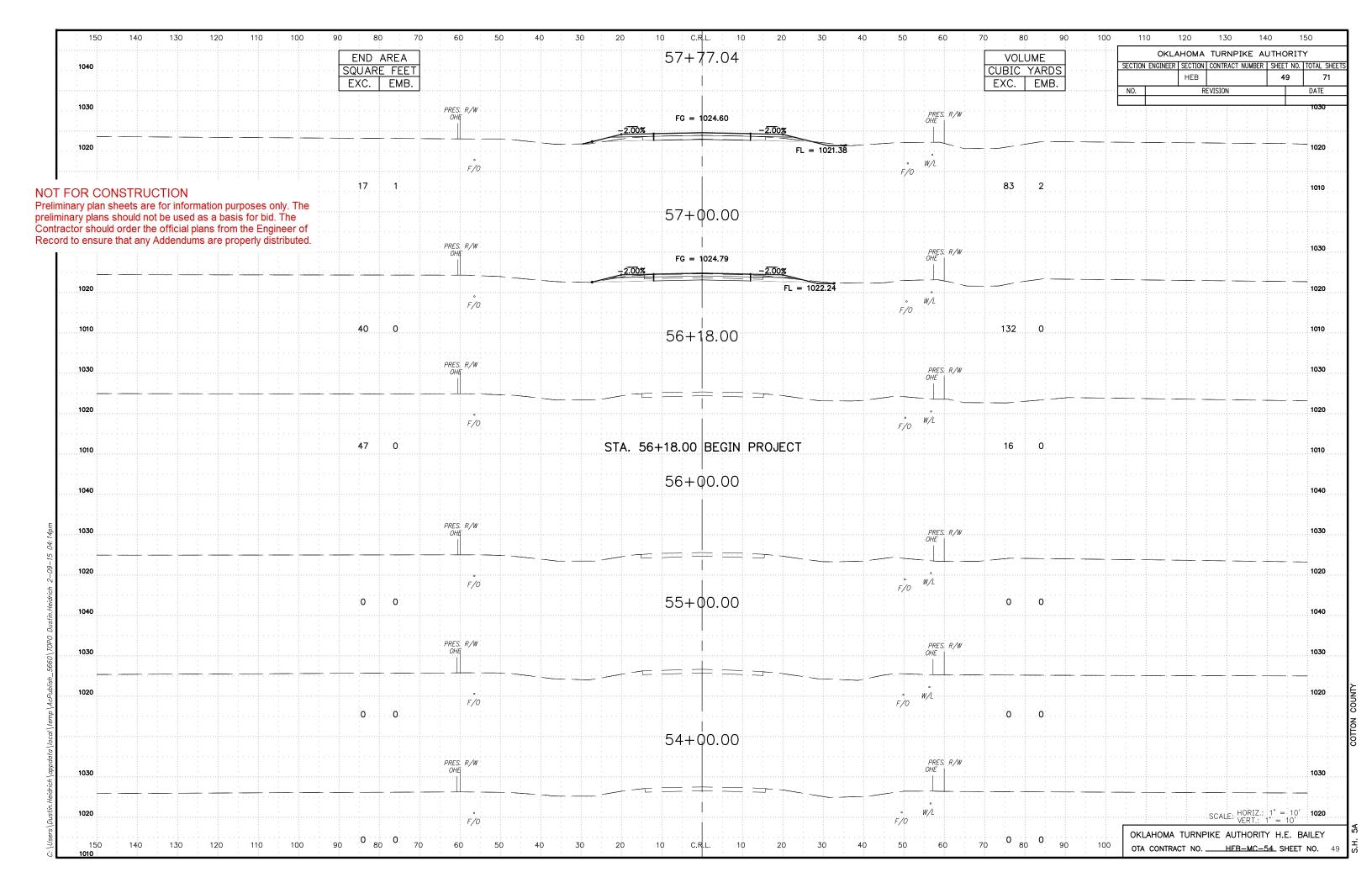


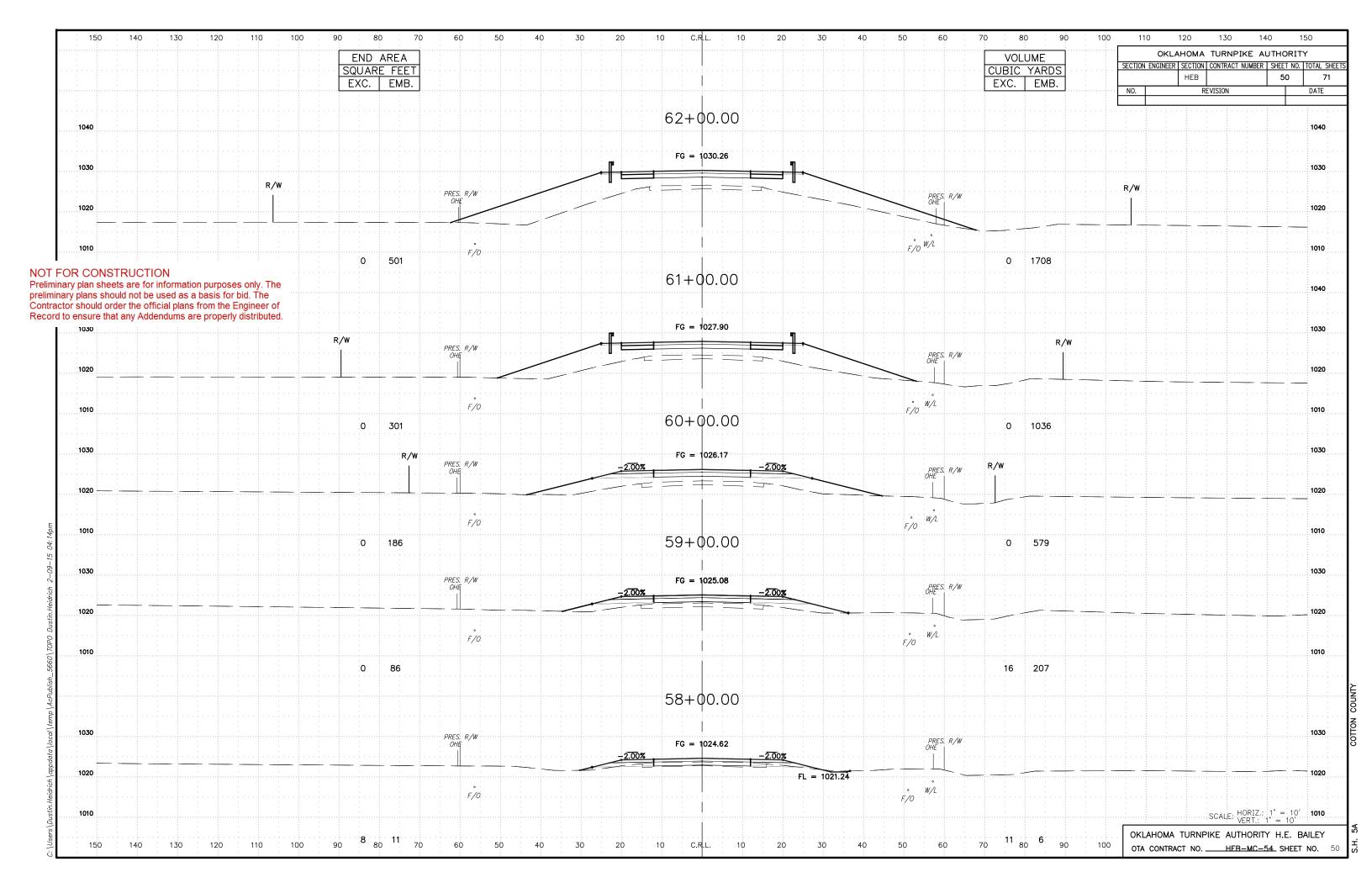


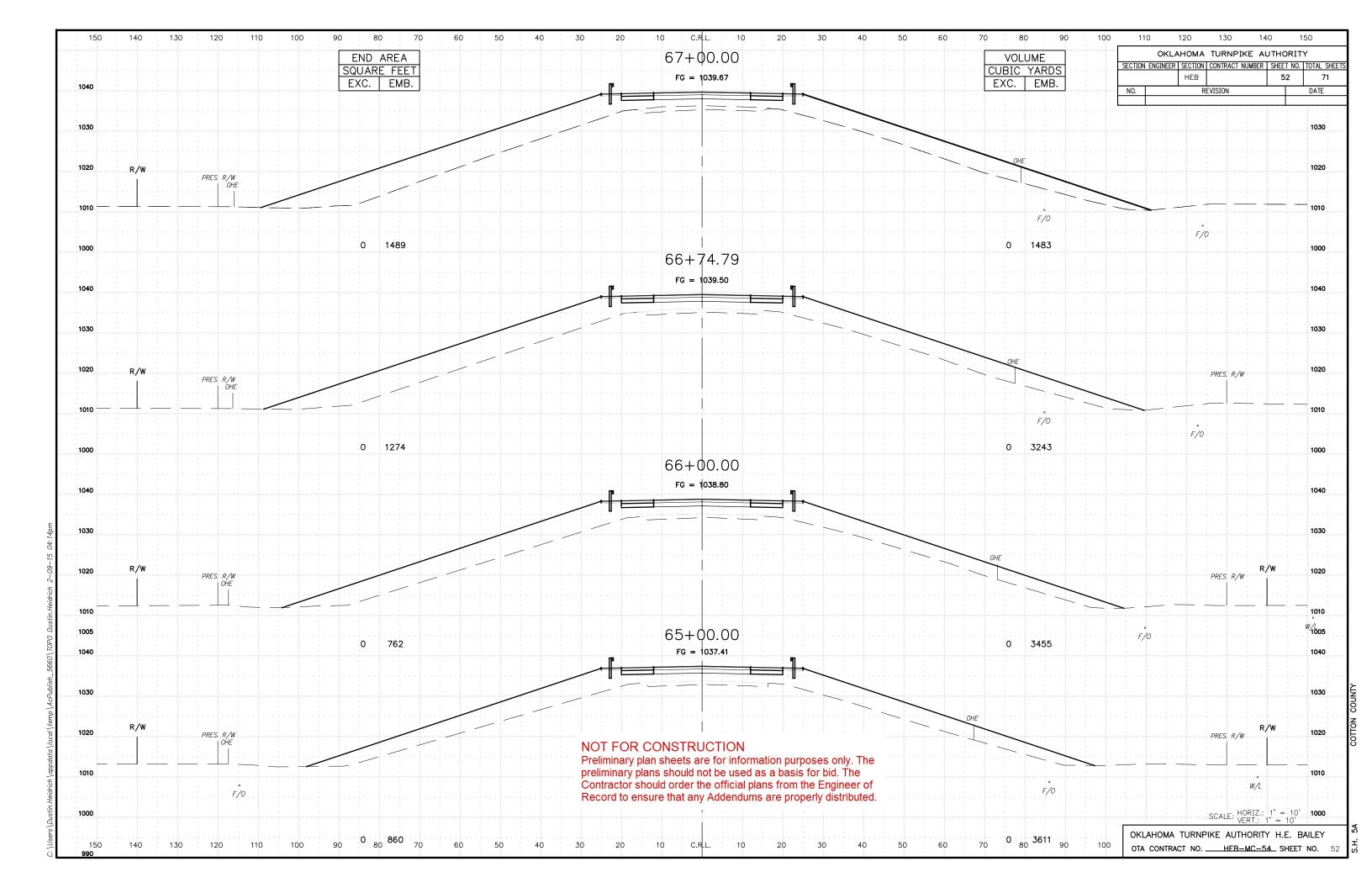


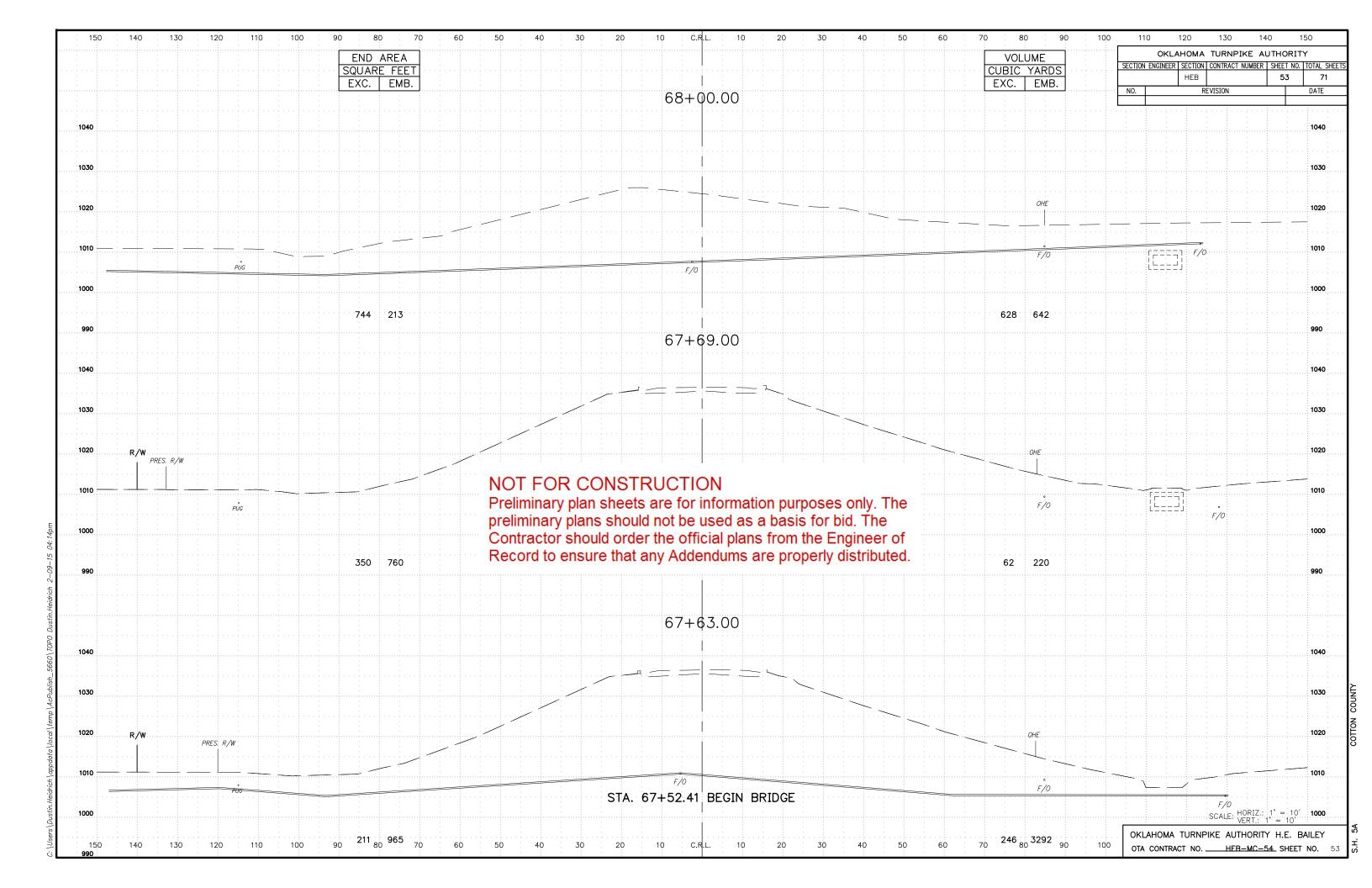


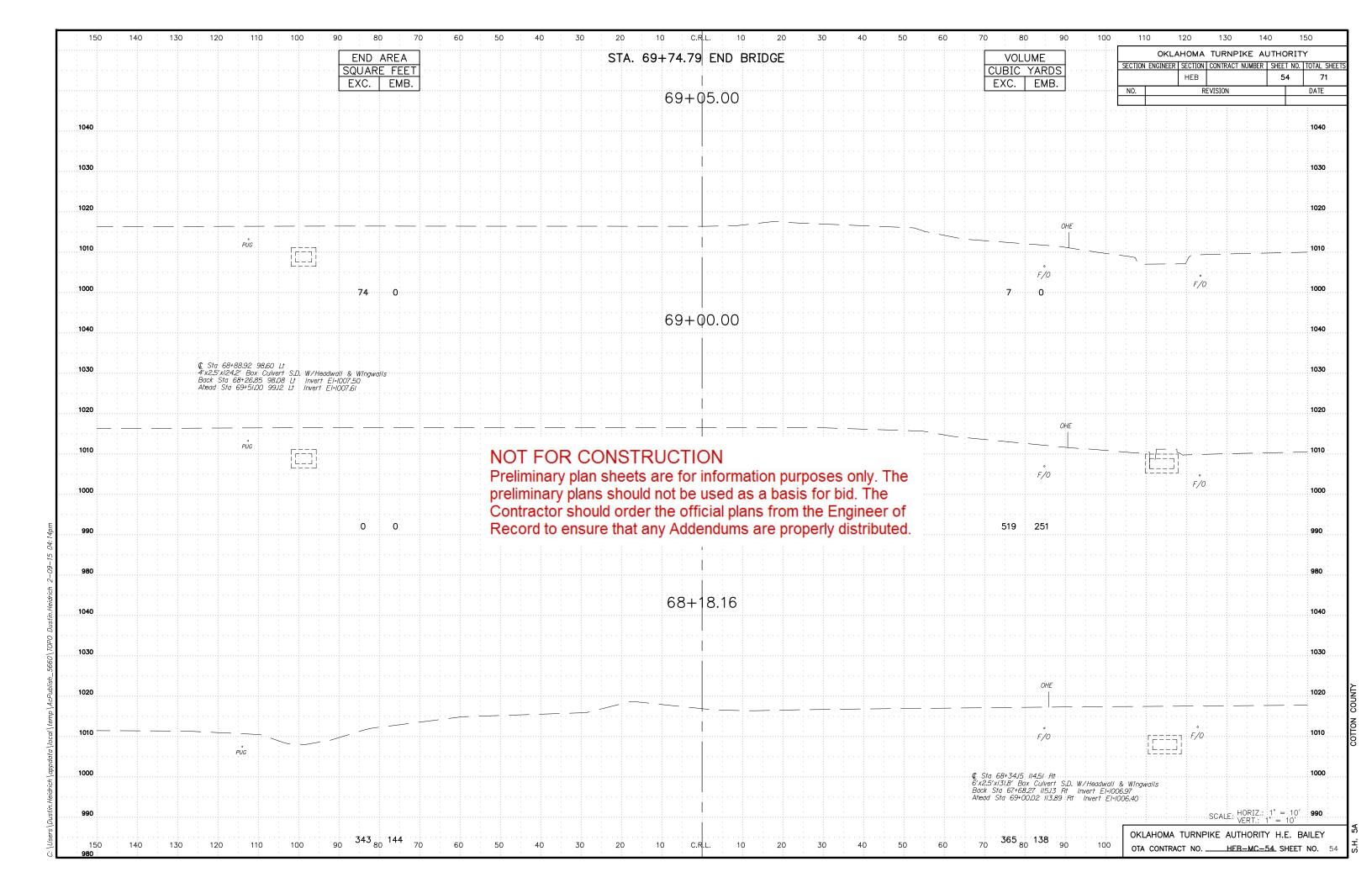


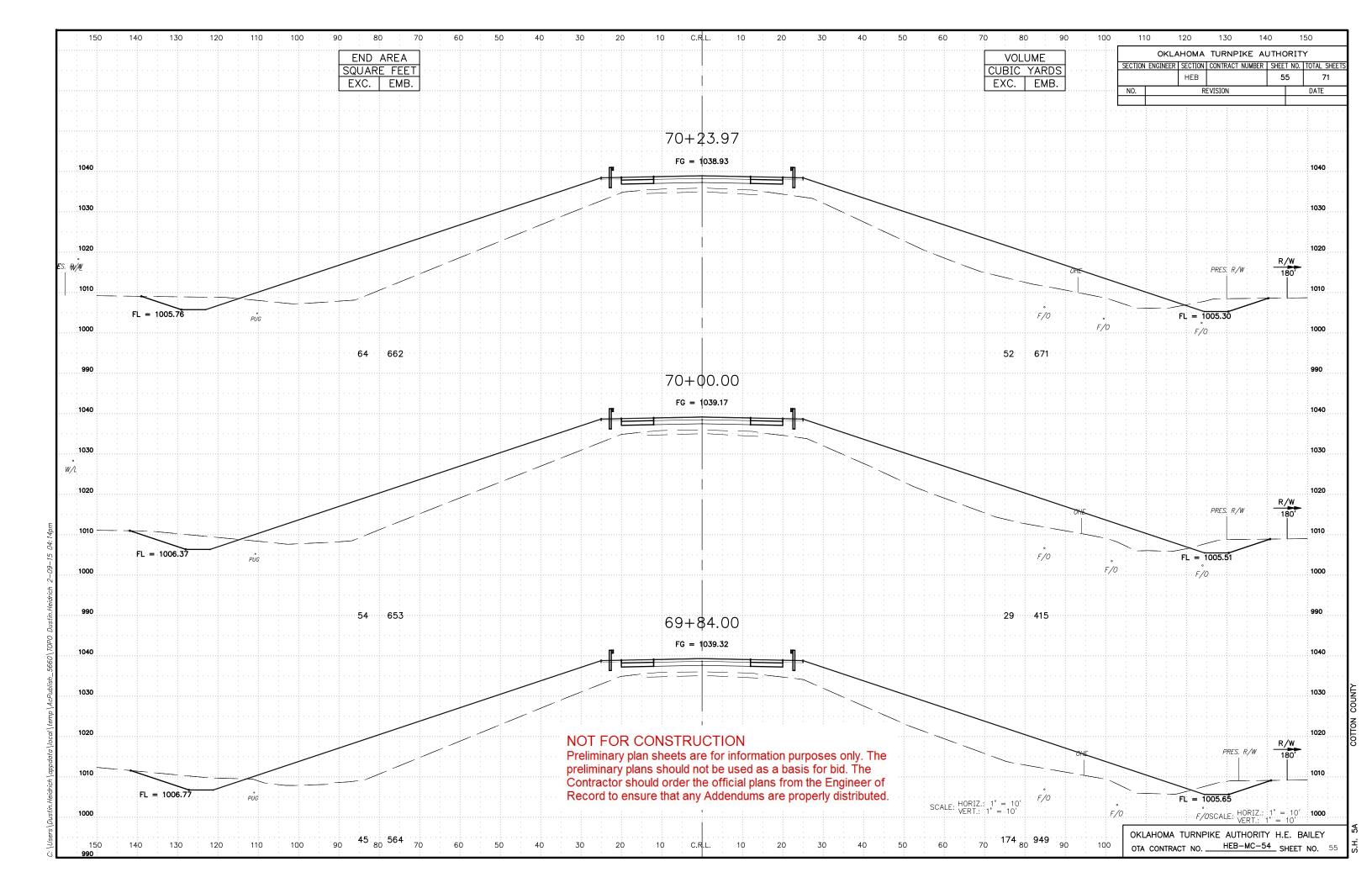


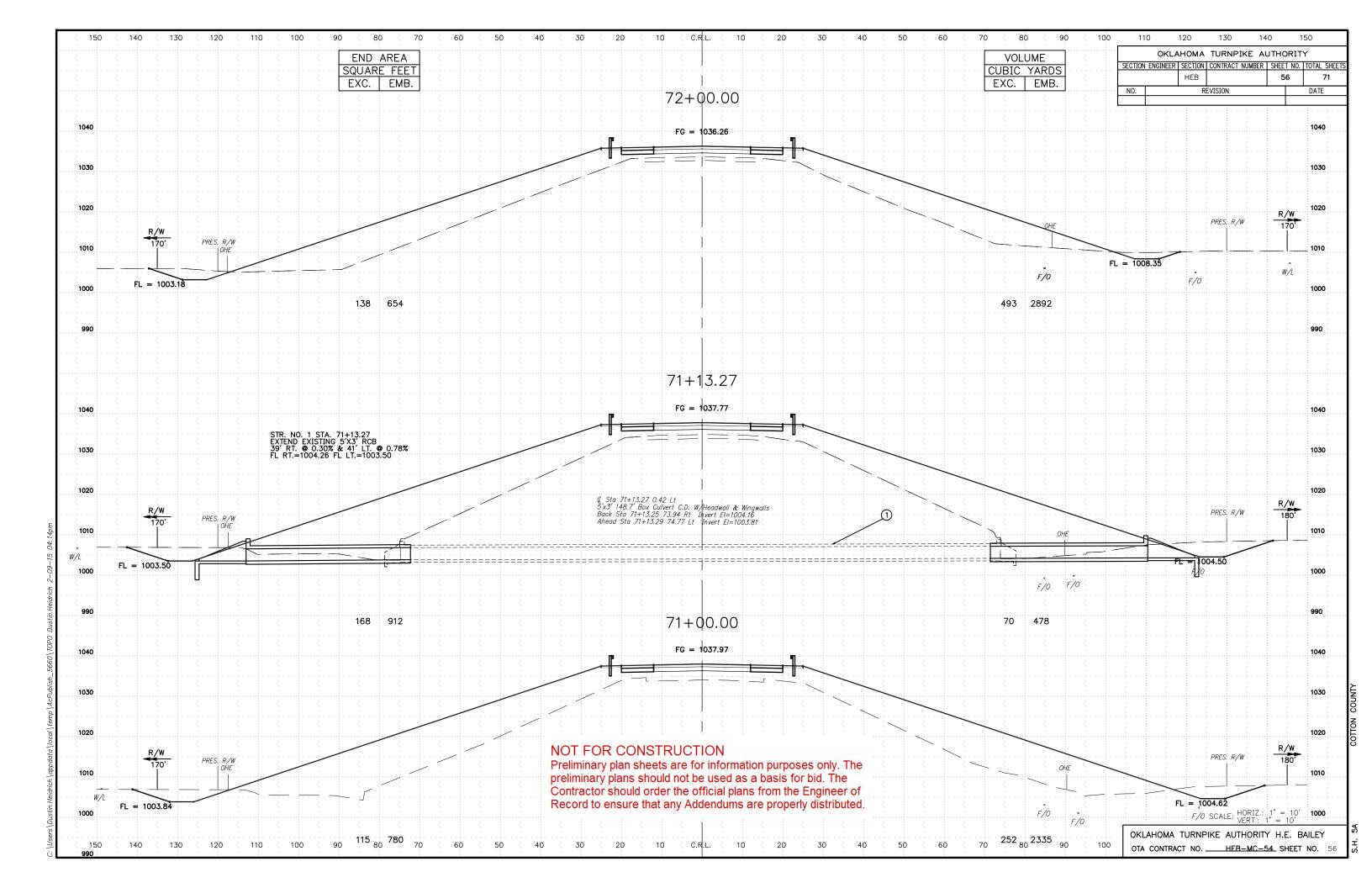


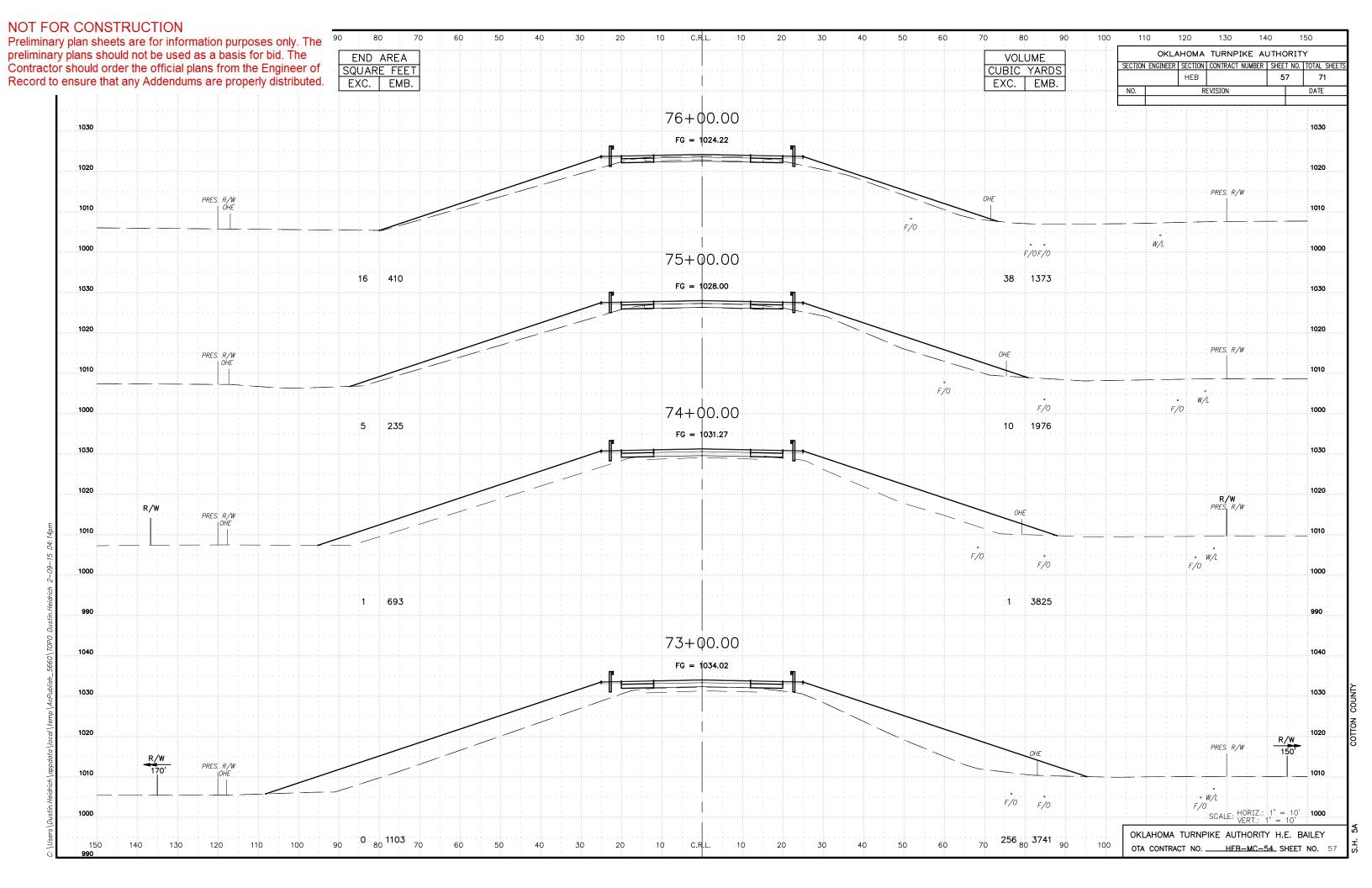


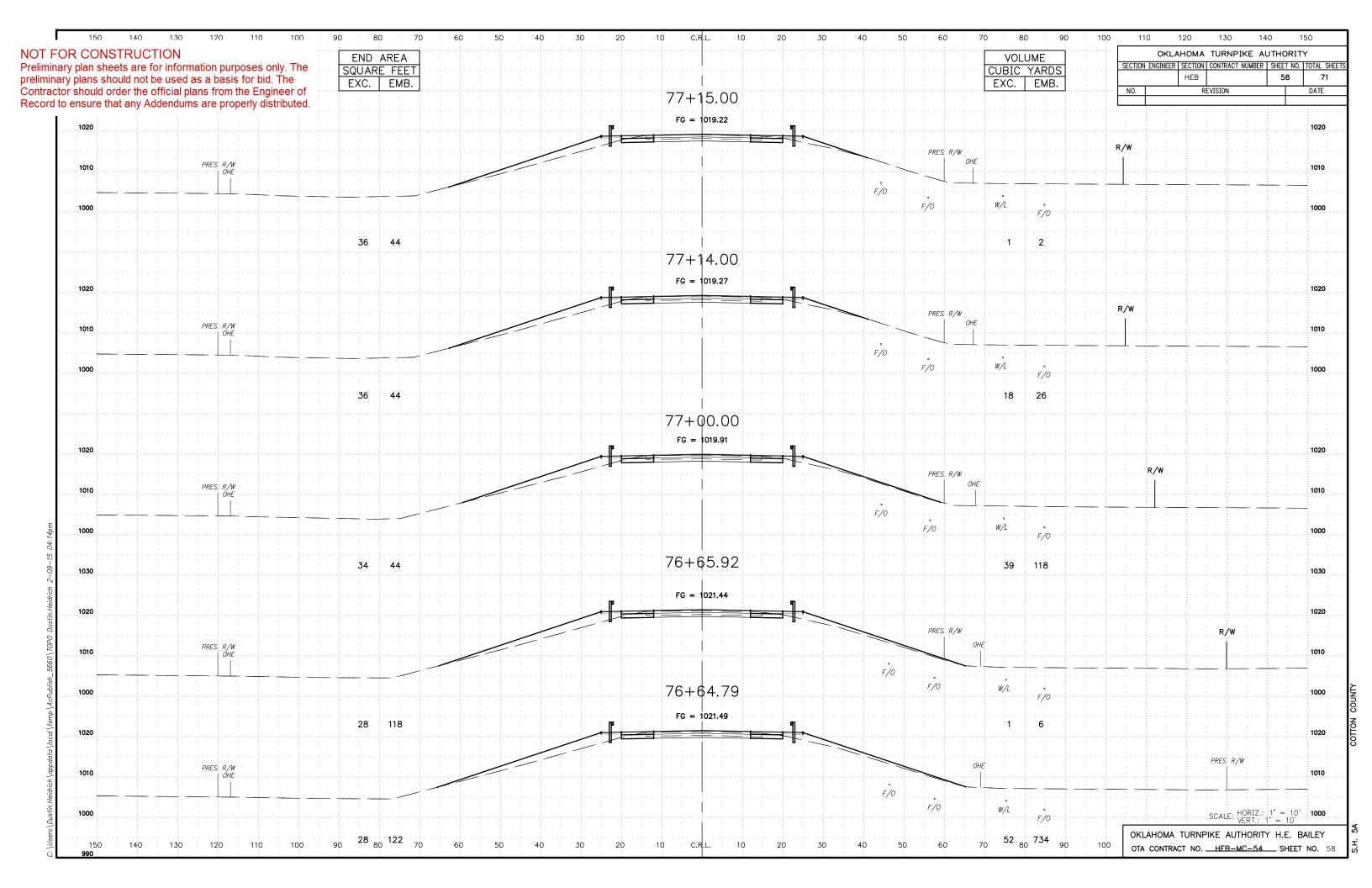


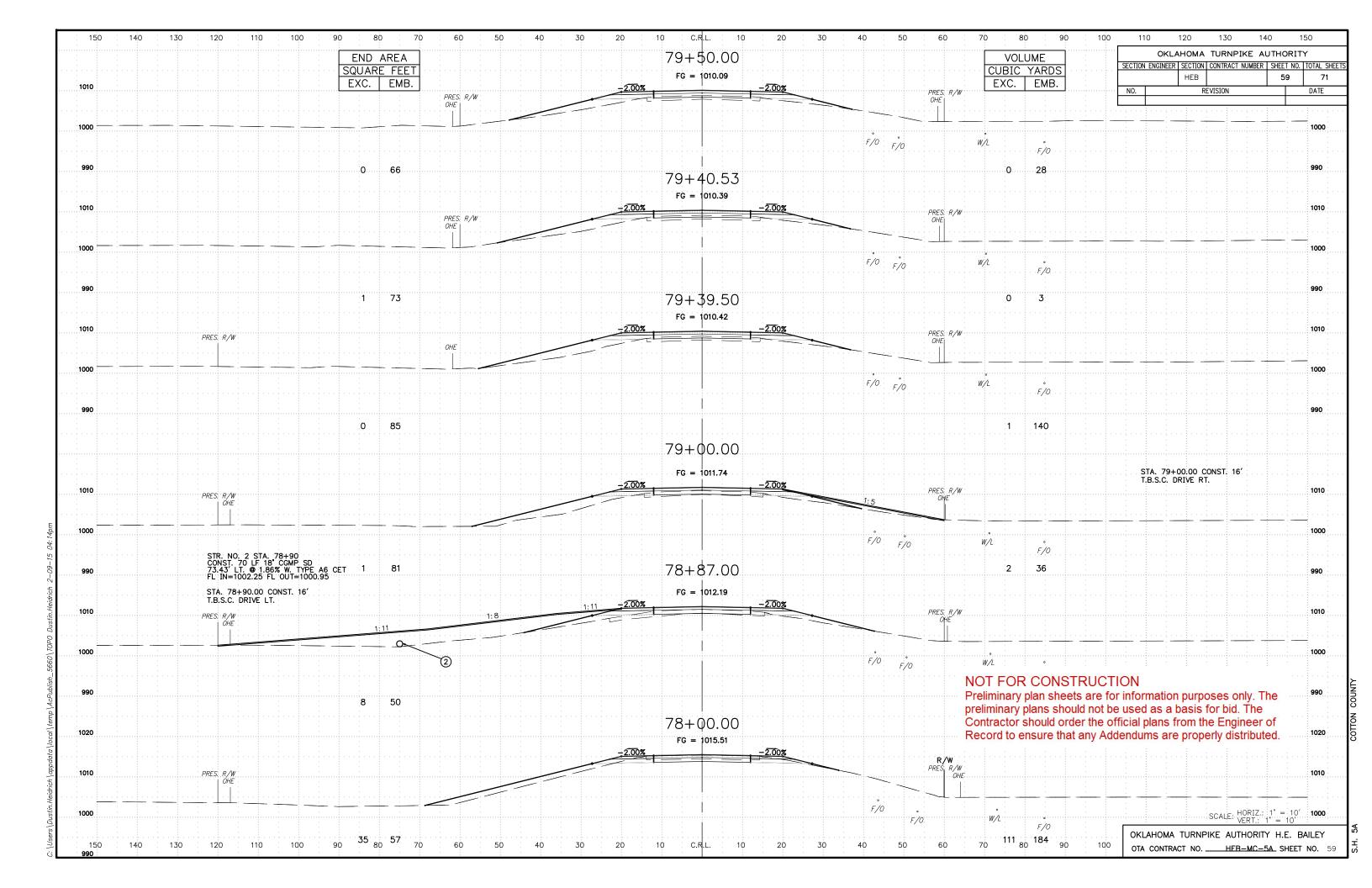


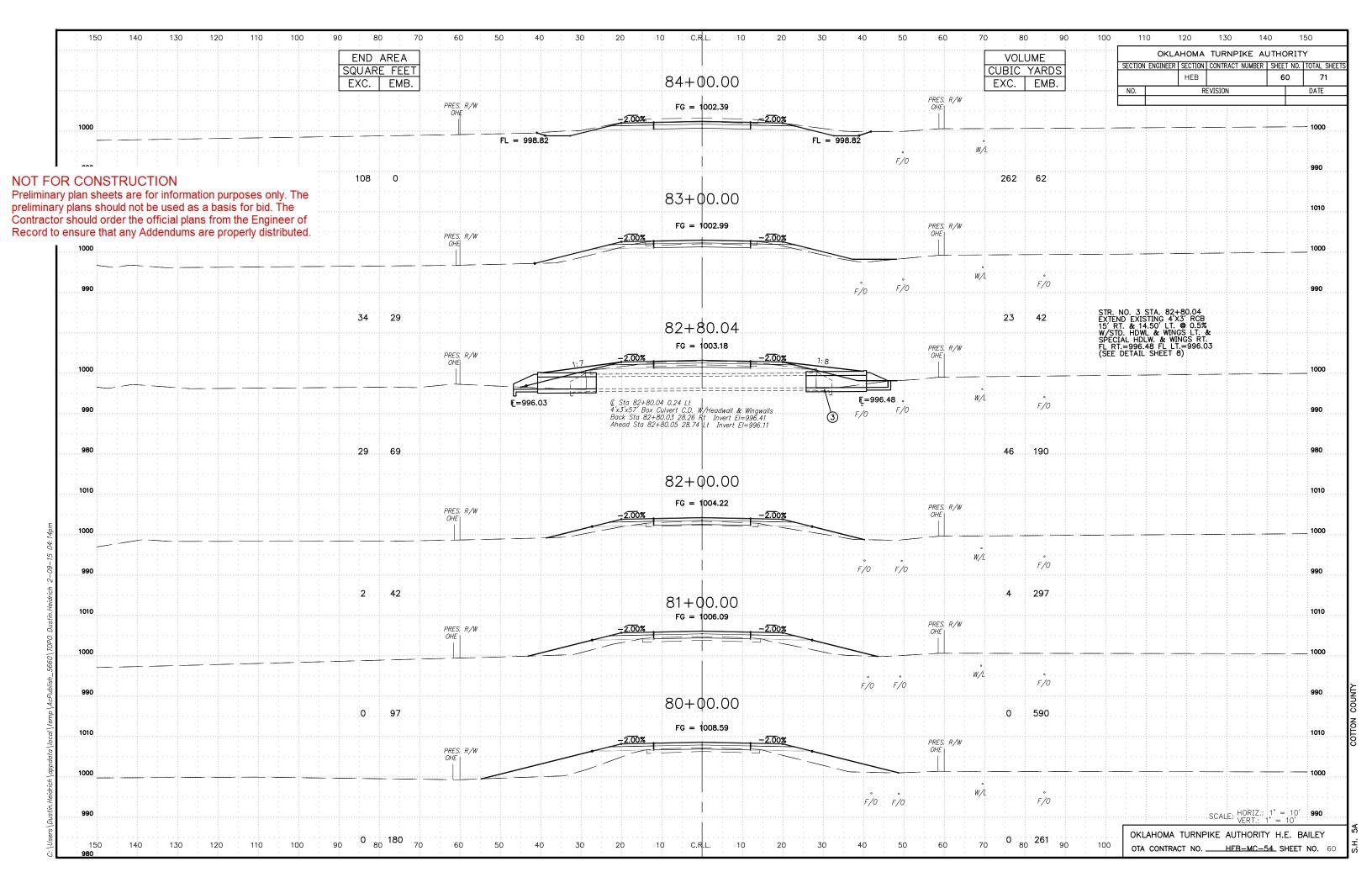


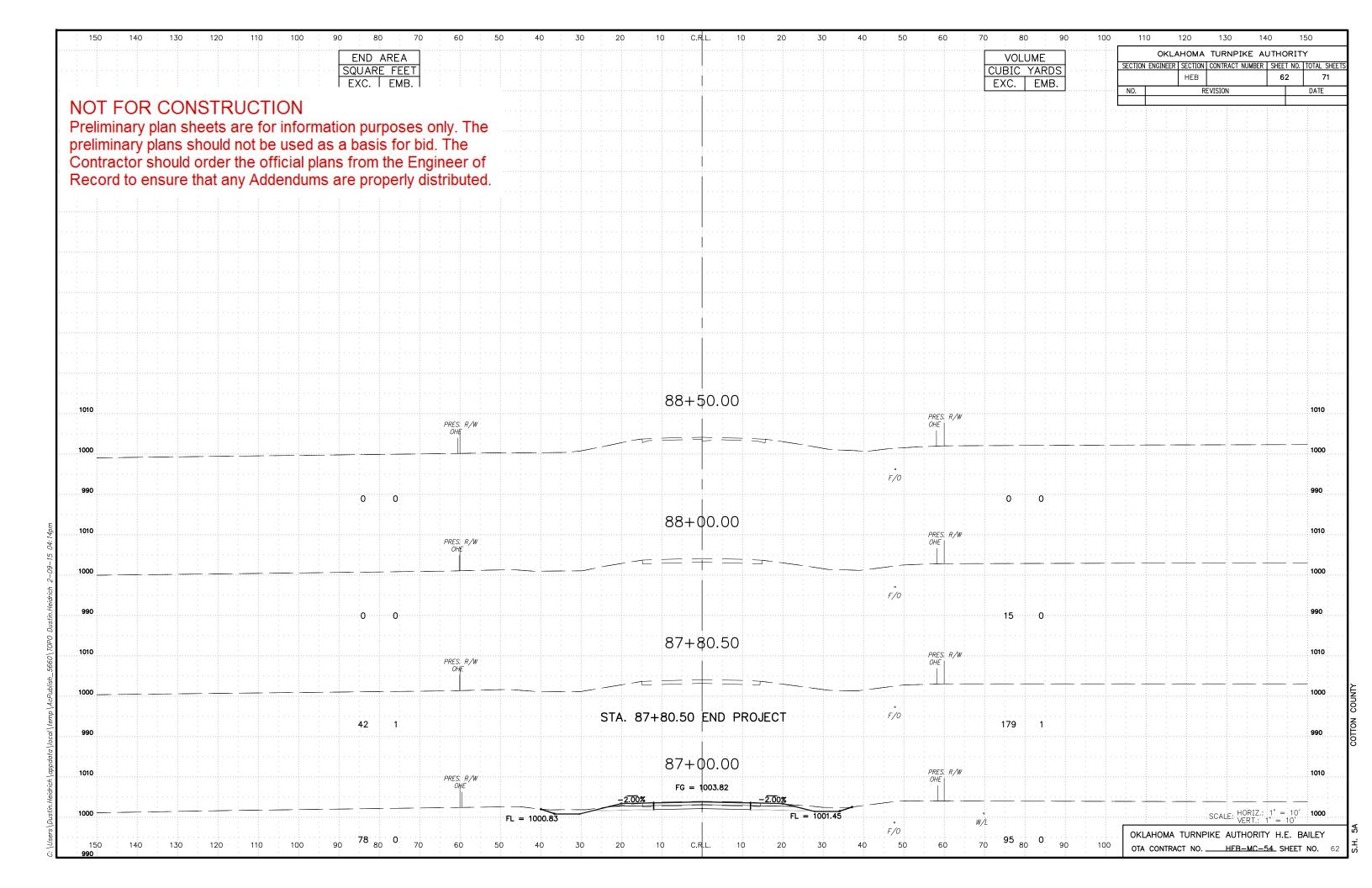












OKLAHOMA TURNPIKE AUTHORITY

Smith Roberts Baldischwiler, LLC SECTION CONTRACT SHEET TOTAL NUMBER NUMBER SHEETS REVISION: Miscellaneous revisions per comments

OKLAHOMA TURNPIKE AUTHORITY

SURVEY CONTROL DATA

- 1. HORIZONTAL CONTROL:
 - HORIZONTAL CONTROL FOR THIS SURVEY IS THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM, NADB3, LAMBERT PROJECTION (SOUTH ZONE).
 - ACCURACY -THE PRIMARY CONTROL NETWORK, THE SECONDARY CONTROL NETWORK AND SECTION BOUNDARIES FOR THIS SURVEY ARE IN GENERAL COMPLIANCE WITH THE NGS SECOND ORDER, CLASS II STANDARDS FOR HORIZONTAL CONTROL (1: 20, 000).

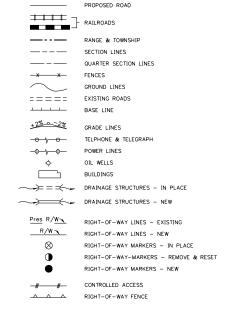
THE BEARINGS SHOWN HEREIN OR HEREON ARE GRID BEARINGS DERIVED FROM THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM AND ARE NOT ASTRONOMICAL.

- 3. VERTICAL CONTROL:
- A: LEVEL DATUM IS NAVD 88.
- B: ACCURACY -VERTICAL CONTROL FOR THIS SURVEY IS WITHIN THE CLOSURE REQUIREMENT OF NOAA/NGS "CLASSIFICATION, STANDARDS OF ACCURACY, AND GENERAL SPECIFICATIONS OF GEODETIC CONTROL SURVEYS" (FEB. 1974, REPRINTED FEB. 1977) THIRD ORDER STANDARDS AS A MINIMUM.



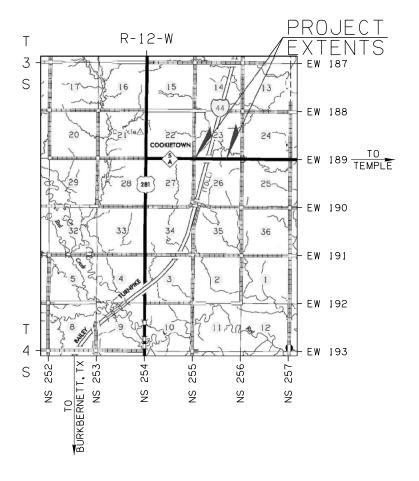
Utilities _{Utility}	Phone Number
Telephone Lines:	
Chickasaw Telephone Co/Sulpher,Ok	(580) 622-3837
Santa Rosa Telephone Coop Inc	(940) 886-2217
USIC/Pioneer Telephone/Foreign	(580) 335-1170
Electric Lines:	
Cotton Electric Co-op	(580) 575-4221
Public Services of Oklahoma/AEP	(918) 599-2646
Water Lines:	
Tilmann County RWD#1	(580) 597-3097

CONVENTIONAL SYMBOLS



H.E. BAILEY TURNPIKE (I-44)

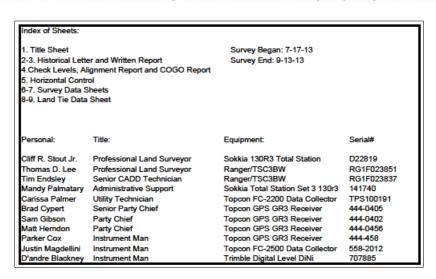
S.H. 5A, Bridge 16.45B over H.E. Bailey Turnpike From NS-255 Section Line 3500' East, 1.3 Miles East of Cookietown, COTTON COUNTY



OTA CONTRACT NO. HEB-MC-54 ODOT J/P NO. 29525(04)

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.



PREPARED BY: DATE: 9-13-13 CLIFF R. STOUT JR. PROFESSIONAL LAND SURVEYOR



PROJECT NO. 114105 DATE: 9-13-13 SHEET NO. 63 SMITH ROBERTS BALDISCHWILER, LLC

CHICKASHA OFFICE:

OKLAHOMA CITY OFFICE:

ENGINEERS • SURVEYORS • PLANNERS CERTIFICATE OF AUTHORIZATION NO. 3949 EXPIRES JUNE 30, 2015

OKLAHOMA TURNPIKE AUTHORITY, 1999 STANDARD SPECIFICATIONS FOR TURNPIKE CONSTRUCTION GOVERN. SPECIAL PROVISIONS GOVERN OVER THE STANDARD SPECIFICATIONS.

OKLAHO	MA TURNI	PIKE AUTH	HORITY	
Smith R	oberts Bo	aldischwile	er, LLC	
SECTION ENGINEER	SECTION	CONTRACT NUMBER	SHEET NUMBER	TOTAL SHEETS
REVISION: Miscellaneous revis	ions per comme	ents		DATE: 8-20-14

Oklahoma Turnpike Authority

Date: September 13, 2013

To: Mr. David Murdock, Assistant Director Maintenance, Engineering & Construction

From: Cliff R. Stout Jr., Professional Land Surveyor

Subject: HEB-MC-5

S.H. 5A, Bridge 16.45B over H.E. Bailey Tumpike From NS-255 Section Line 3500' East,

1.3 Miles Fast of Cookietown

East of Cookietown

HISTORICAL LETTER AND WRITTEN REPORT

1. ASSIGNMENT OF SURVEY:

This Survey was assigned by White Engineering & Associates on behalf of David Murdoch of the Oklahoma Tumpike Authority.

2. GENERAL:

Method of Survey: This survey was performed using the Break Line Method, applying a combination of field conventional methods to obtain topography in the main project area, and real-time kinematic GPS (RTK) to obtain information on existing land tie evidence.

Units of measurement: U.S. Survey Foot

Reference material relevant to this project:

OTA Southwestern Turnpike Section II-B Three Bridges Contract No. 218 As-built OTA Southwestern Turnpike Section II-B Paving Contract No. 248 As-built SWO 2212(1) survey – S.H. 5A

3. SURVEY LIMITS:

This survey will begin at NS-255 Section Line P.I. Sta. 52+91.50 and will extend easterly to P.O.T. Sta. 87+91.50 (approximate centerline length = 0.663 mile).

4 ALIGNMENT

The Centerline of Survey will be along and identical to the centerline of present S.H. 5A as established under SWO 2212(1) survey,.

5. STATIONING:

Stationing for this survey will be as established under SWO 2212(1). Stationing will increase east from this point, field measured distance, to the End of Survey without equation, except with other surveys and plans.

6. PURPOSE OF SURVEY

The purpose of this survey is to furnish sufficient data to develop plans to construct a new roadway and bridge for S.H. 5A over the H.E. Bailey Tumpike. The survey will include the Alignment, Topographic/Planimetric data, Surface Features/DTM data, Land Ties, Utilities, Drainage and all other pertinent information needed to aid in the design.

7. TOPOGRAPHY / DTM INFORMATION:

The Break Line Method, applying conventional field methods to obtain topography to create a Digital Terrain Model (DTM) and has been archived within the MicroStation Design File (See: SUBMITTED DATA).

8. HORIZONTAL CONTROL:

Horizontal control for this survey was established by static and real time kinematic GPS (RTK) Survey Methods. Coordinates on this survey are NGS Oklahoma State Plane Coordinate system NAD 83(HPGN) Lambert Projection South Zone. The distances, coordinates, and elevations shown on this survey are in U.S. Survey Feet. All angles and bearings shown are in degrees, minutes, and seconds.

9. VERTICAL CONTROL

Vertical Control for this survey is NGS, NAVD'88. Total length of run = 0.716 mile. A benchmark list depicting existing and newly established benchmarks, as well as results of the control leveling has been placed and archived within the MicroStation Design File (See: SUBMITTED DATA).

10. UTILITIES:

CALL OKIE was contacted on July 25, 2013, and utilities were located by July 27, 2013. All utility information has been shown and archived within the MicroStation Design File See: SUBMITTED DATA).

UTILITIES OWNERSHIPS:

 Chickasaw Telephone Co/Sulphur, Ok (580) 622-3837 Cindy Wilson 124 W Vinita Avenue Sulphur, Ok, 73086

Santa Rosa Telephone Cooperative Inc. (940) 886-2217

Brad Laxson

7110 US Highway 287 E Vernon Tx, 76384

USIC/Pioneer Telephone/Foreign (580) 335-8032 Michael Garza

PO Box 758 Frederick, Ok, 73542 Cotton Electric Cooperative Jeff Hart (580) 575-4221

226 N Broadway Street

Tulsa, Ok, 74119

Walters, Ok, 73572

(918) 599-2646

Public services of Oklahoma/AEP Regional Office 212 Fast 6th Street

707 700

(No response or atlas supplied, regional office contact information shown)

Tillman County RWD#1
 Disky Strocker

(580) 597-3097

Ricky Strecker
PO Box 160
304 2nd Street
Chattanooga, Ok, 73528
(No response, Cotton County RWD Atlas information shown)

11. SECTION BOUNDARY SURVEYS:

Land Ties are to include establishing/re-establishing all section corners and ½ section corners, including the center section corner, of each section through which the main line passes and any other quarter (1/4) section from which right-of-way may need to be acquired. All section corners and 1/4 section corner so established are to be monumented and referenced in accordance with the Survey Specifications. As a minimum, the following sections or partial sections are to be set up in:

T-3-S, R-12-W, I.M; SECTIONS 23 and 26.

SECTION 23;

NW CORNER - SET 1/2" IRON PIN WITH CAP "SRB CA3949" IN AGREEMENT WITH LOCAL EVIDENCE AND THE OKLAHOMA TURNPIKE AUTHORITY "SOUTHWESTERN TURNPIKE PLANS (HE PAIL FOR TURNPIKE)"

NORTH 1/4 CORNER - SET 1/2" IRON PIN WITH CAP "SRB CA3949" AT EQUIDISTANT AND ON LINE BETWEEN THE NW CORNER AND THE NE CORNER OF SECTION WHICH IS IN AGREEMENT WITH THE OKLAHOMA TURNPIKE AUTHORITY "SOUTHWESTERN TURNPIKE PLANS (H.E. BAILEY TURNPIKE)".

NE CORNER - ODOT Sta. No. C-17-329 - FOUND 1/2" IRON PIN AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012.

WEST 1/4 CORNER - FOUND 1/2" IRON PIN IN AGREEMENT WITH LOCAL EVIDENCE.

EAST 1/4 CORNER - ODOT Sta. No. C-17-336 - FOUND 1/2" IRON PIN WITH CAP "CA 2054" AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012.

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.



PROJECT NO. 114105 DATE: 9-13-13 SHEET NO. 64

SMITH ROBERTS BALDISCHWILER, LLC

OKLAHOMA CITY OFFICE: 100 N.E. 5th Street Oklahoma City, OK 73104 Telephone: (405) 840-7094 Epy (405) 840-840 CHICKASHA OFFICE: 104 S. 2nd Street Chickasha, OK 73018 Telephone: (405) 224-1444 FAX: (405) 224-1485

ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO. 3949 EXPIRES JUNE 30, 2015

S.H. 5A, BRIDGE 16.45B OVER H.E. BAILEY TURNPIKE

HISTORICAL LETTER AND WRITTEN REPORT

SECTION _____ CONTRACT NO. _____ SHEET NO. _____ DATE ____

OKLAHOMA TURNPIKE AUTHORITY Smith Roberts Baldischwiler, LLC

SW CORNER - FOUND 1/2" IRON PIN AND REFERENCES 1, 2, 3 AND 4 AS SHOWN ON OCCR PREPARED BY BILLY JACK WILLINGHAM FOR WILLINGHAM'S SURVEYING

SOUTH 1/4 CORNER - FOUND 60d NAIL AND REFERENCES 2 AND 3 AS SHOWN ON OCCR PREPARED BY BILLY WAYNE MOSLEY FOR NORTH FORK SURVEYING AND DRAFTING FILED ON FEBRUARY 2, 1990.

SE CORNER - ODOT Sta. No. C-17-340 - FOUND 1/2" IRON PIN AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012.

SECTION 26;

NW CORNER - FOUND 1/2" IRON PIN AND REFERENCES 1, 2, 3 AND 4 AS SHOWN ON OCCR PREPARED BY BILLY JACK WILLINGHAM FOR WILLINGHAM'S SURVEYING COMPANY FILED JULY 25, 2001.

NORTH 1/4 CORNER - FOUND 60d NAIL AND REFERENCES 2 AND 3 AS SHOWN ON OCCR PREPARED BY BILLY WAYNE MOSLEY FOR NORTH FORK SURVEYING AND DRAFTING FILED ON FEBRUARY 2, 1990.

NE CORNER - ODOT Sta. No. C-17-340 - FOUND 1/2" IRON PIN AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012.

WEST 1/4 CORNER - FOUND 1/2" IRON PIN AND REFERENCES 1, 2, 3 AND 4 AS SHOWN ON OCCR PREPARED BY DENNIE J. HIGHTOWER FOR HIGHTOWER & ASSOCIATES, INC. FILED ON SEPTEMBER 21, 2001.

EAST 1/4 CORNER - ODOT Sta. No. C-17-347 - FOUND 1/2" IRON PIN AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND

SW CORNER - FOUND 1/2" IRON PIN WITH NO CAP AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY JACOB ROYCE CARROLL FOR CARROLL SURVEYING SERVICE FILED ON APRIL 11, 2003.

SOUTH 1/4 CORNER - FOUND 1/2" IRON PIN AND REFERENCES 1 AND 3 AS SHOWN ON OCCR PREPARED BY RANDY WAYNE MOSLEY FOR NORTH FORK SURVEYING AND DRAFTING FILED ON FEBRUARY 2, 1990.

SE CORNER - ODOT Sta. No. C-17-351- FOUND 1/2" IRON PIN AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012.

12 SUBMITTED DATA:

- 1. HEB-MC-54\CIVIL\HEB-MC-54_1 V1.alg InRoads Alignment
- HEB-MC-54\CIVIL\HEB-MC-54_1_V1.dtm InRoads Digital Terrain Model
 HEB-MC-54\CIVIL\HEB-MC-54_1_V1_ALIGN.pdf InRoads Alignment Report
- 4. HEB-MC-54\CIVIL\HEB-MC-54_1_V1_SURF.pdf InRoads Surface Report

- 1. HEB-MC-54\DGN\HEB-MC-54_1_V1.dgn All Survey Drawings
- 2. HEB-MC-54\DGN\HEB-MC-54_1_V1_Full_Size.pdf All Survey Drawings
 3. HEB-MC-54\DGN\HEB-MC-54_1_V1_Half_Size.pdf All Survey Drawings
 4. HEB-MC-54\DGN\HEB-MC-54_1_V1_SFF.dgn Surface Feature File

- 5. HEB-MC-54\DGN\HEB-MC-54_1_V1_TOPO.dgn Topography Identification File 6. HEB-MC-54\DGN\HEB-MC-54_1_V1_TRI.dgn Triangle File

- 1. HEB-MC-54\REPOPRTS\HEB-MC-54_1_V1_Check_Levels.pdf 2. HEB-MC-54\REPOPRTS\HEB-MC-54_1_V1_COGO_Points.pdf

- HEB-MC-54\REPOPRTS\HEB-MC-54, 1_V1_COGO_Points.txt
 HEB-MC-54\REPOPRTS\HEB-MC-54, 1_V1_Historical Letter and Written Report.pdf
- HEB-MC-54\REPOPRTS\HEB-MC-54_1_V1_Index.pdf
- HEB-MC-54\REPOPRTS\HEB-MC-54_1_V1_OCCR.pdf
 HEB-MC-54\REPOPRTS\HEB-MC-54_1_V1_Utilty Atlases.pdf

13. SIGNIFICANT OBSERVATIONS:

This survey was prepared without the aid of any title policy and this office did not perform any search of the public records for any deeds of ownership or easements that may have an affect on this survey.

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.



104 S. 2nd Street Chickasha, OK 73018 Telephone: (405) 224-1444 FAX: (405) 224-1485 ENGINEERS • SURVEYORS • PLANNERS CERTIFICATE OF AUTHORIZATION NO. 3949 EXPIRES JUNE 30, 2015

S.H. 5A, BRIDGE 16.45B

OVER H.E. BAILEY TURNPIKE

HISTORICAL LETTER AND WRITTEN REPORT

SECTION _____ CONTRACT NO. ____ SHEET NO. ____ DATE _

IEB-MC	-54	CHECK	LEVELS			BENCH MARK LIST NAVD 88 DATUM		
	RUN 1	DUNA		UNADJ.	ADJ.	PUBLISHED ELEV.	BM DESCRIPTION Page 1 of 2	
P 7400		KONZ	DIIT.	LLLY.	LLLY		SET 5/8" IRON PIN WITH ALUMINUM CAP NORTH SIDE OF S.H. 5A AND 704-/WEST 10F THE CENTERLINE OF N.2-25 ROAD LOCATED AT STA 52+23.1 OFFSET 48,9" LT SAME BEING 34*4- NORTH OF THE NORTH EDGE OF S.H. 5A AND 30*4-WEST OF A WOOD UTILITY POLE (ELEVATION BASED ON GPS	
	0.444	0.445	0.445				OBSERVATION RELATIVE TO FOUND RW MARKER LOCATED AT STA 60-60 OFFSET 60' LT AS SHOWN ON PLANS BY ODOT "COTTON COUNTY SH-5A AS-BUILT.PDF SHEET 8 OF 23" ELEVATION 1021.702 NAVD88).	
BM 1				1027.178	1027.179		SET CUT "X" ON THE CENTER OF THE NORTH END OF A CONCRETE HEADWALL AT THE SW CORNER OF S.H. 5A AND NS-256 ROAD LOCATED AT STA 52*71.8 OFFSET 39.4 RT SAME BEING 24*9-5. SOUTH OF DRE SOUTH EDGE OF S.H. 5A AND 6*4-	
	-11.286	-11.286	-11.286				WEST OF THE WEST EDGE OF NS-255 ROAD.	
BM 2				1015.893	1015.893		SET 2-80d NAIL IN WOOD UTILITY POLE NORTH SIDE OF S.H. 5A AND 500+. WEST OF THE CENTERLINE OF THE H.E. BAILEY TURNIPKE (1-41) LOCATED AT STA 83+93.1 OFFSET 117.0*+. LT SAME BEING 104.5*+. NORTH OF THE NORTH	
	21.537	21.536	21.536				EDGE OF PAVEMENT FOR S.H. 5A.	
BM 3				1037.430	1037.429		SET CUT "X" IN CONCRETE WALKWAY AT THE SW CORNER OF THE BRIDGE FOR S.H. 5A OVER THE H.E. BAILEY TURNPIKE (I-44) LOCATED AT STATION 67+77.4 OFFSET 14.9' RT.	
	-0.029	-0.029	-0.029				KI.	
BM 4				1037.401	1037.400		SET CUT "X" IN CONCRETE WALKWAY AT THE NE CORNER OF THE BRIDGE FOR S.H. 5A OVER THE H.E. BAILEY TURNPIKE (I- 44) LOCATED AT STATION 69+48.9 OFFSET 14.3' LT.	
	-34.319	-34.320	-34.320					

			MEAN DIFF.	UNADJ.	ADJ.	PUBLISHED ELEV.	BM DESCRIPTION
BM NO.	RUN 1	RUN 2	DIFF.		1003.080	ELEV.	Page 2 of 2 SET CUT *X* ON CONCRETE GATE POST (WEST SIDE OF GATE) NORTH SIDE OF S.H. 5A AND 990+/- EAST OF THE
							CENTERLINE OF THE H.E. BAILEY TURNPIKE (I-44) LOCATED AT STA 78+83.4 OFFSET 117.6*/- LT SAME BEING 102*/- NORTH OF THE NORTH FOGE OF PAVEMENT FOR S.H. 5A AND
	-2.336	-2.336	-2.336				18*+/- WEST OF A WOOD UTILITY POLE.
BM 6				1000.745	1000.744		SET CUT "X" ON THE CENTER OF A CONCRETE HEADWALL SOUTH SIDE OF S.H. 5A AND 1423"+F. EAST OF THE CENTERLINE OF THE HE. BAILEY TURNPIKE (I-44) LOCATED AT STA 82-79.8 OFFSET 27.9 RT SAME BEING 14"+SOUTH OF THE SOUTH EDGE OF S.H. 5A AND 24"+-WEST OF A WOOD
	4.062	4.063	4.062				UTILITY POLE.
BM 7				1004.806	1004.806		SET 34" IRON PIN IN CONCRETE AT THE WEST GATE POST FOR ENTRANCE TO A COMMUNICATIONS TOWER SOUTH SIDE OF SH. 5A AND 1820+* EAST OF THE CENTERLINE OF THE H.E. BAILEY TURNPIKE LOCATED AT STA 88+82.8 OFFSET 59.9 RT SAME BEING 44.5"4-SOUTH OF THE SOUTH EDGE OF SH. 5A AND 53"+ EAST OF A WOOD UTILITY POLE.
	-3.943	-3.944	-3.943				
CP 7401				1000.864	1000.863	1000.863	SET 569 'IRON PIN WITH ALUMINUM CAP SOUTH SIDE OF S.H. 5A AND 2039'-L AST OF THE CENTERLINE OF THE HE. BAILEY LOCATED AT STA 88-94.2 OFFSET 50.0' RI SAME BEING 3.5.594-> SOUTH OF THE SOUTH EDGE OF S.H. 5A AND 58.594-> WEST OF A WOOD UTILITY POLE (ELEVATION BASED ON GPS OBSERVATION RELATIVE TO FOUND RW MARKER LOCATED AT STA 80-90.0 FPSET 80' LT AS SHOWN ON PLANS BY ODOT COTTON COUNTY SHOA AS-BUILT.PDF' SHEET 8 OF 23 ELEVATION 102.1.702 NAVD88).

OKLAHOMA TURNPIKE AUTHORITY
Smith Roberts Baldischwiler, LLC

SECTION CONTRACT SHEET TOTAL NUMBER NUMBER SHEETS

| Project Name: HEB-NC-54 1 V1 | Description: Existing Condition | Horisontal Alignment Name: A001 | Description: Centerline St SA | Style: Centerline STATION | NORTHING | EASTING | Element: Linear | 2008 (9006) | 52-91.5000 | 349131.6295 | 1826995.9195 | PI (9007) | 79-32.4968 | 349112.1267 | 1839643.8445 | Tangent Direction: S 89°34'40.922" E | Tangent Length | 247.8968 | 242112.1287 | 1839643.8445 | Element: Linear | PI (9007) | 79-29.4968 | 242112.1287 | 1839642.8445 | POE (9008) | 105-88.1014 | 240982.5900 | 1842292.2770 | Tangent Direction: S 89°34'48.7212" E | Tangent Length | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 | 2481.6046 |

NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.



PROJECT NO. 114105 DATE: 9-13-13 SHEET NO. 66
SMITH ROBERTS BALDISCHWILER, LLC

OKLAHOMA CITY OFFICE:
100 N.E. 5th Street
Oklahoma City, OK 73104

104 S. 2nd Street
Chickasha, OK 73018
Telephone: (405) 224-1444
FAX: (405) 224-1485
FYORS • PLANNERS

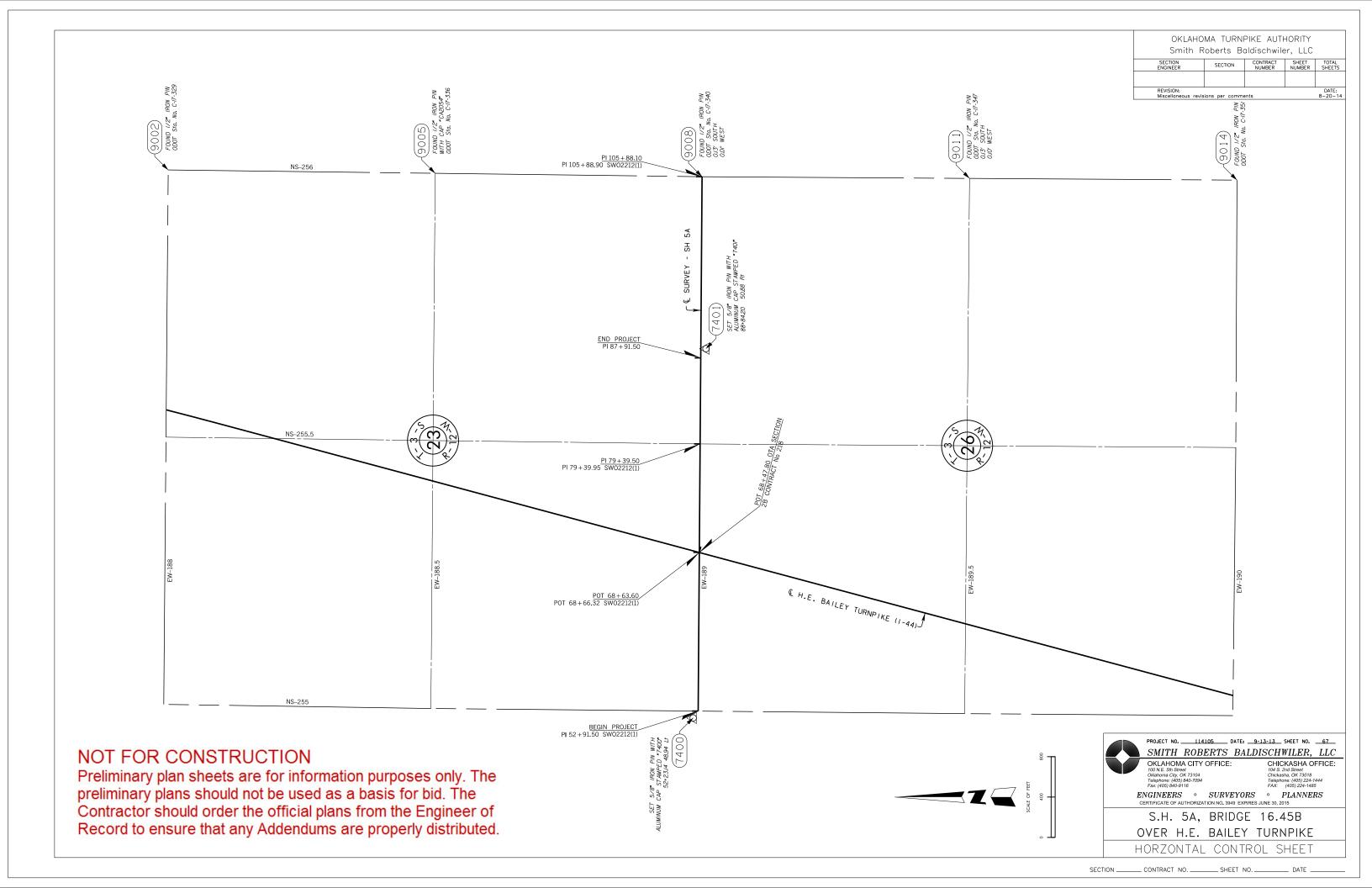
CHICKASHA OFFICE:

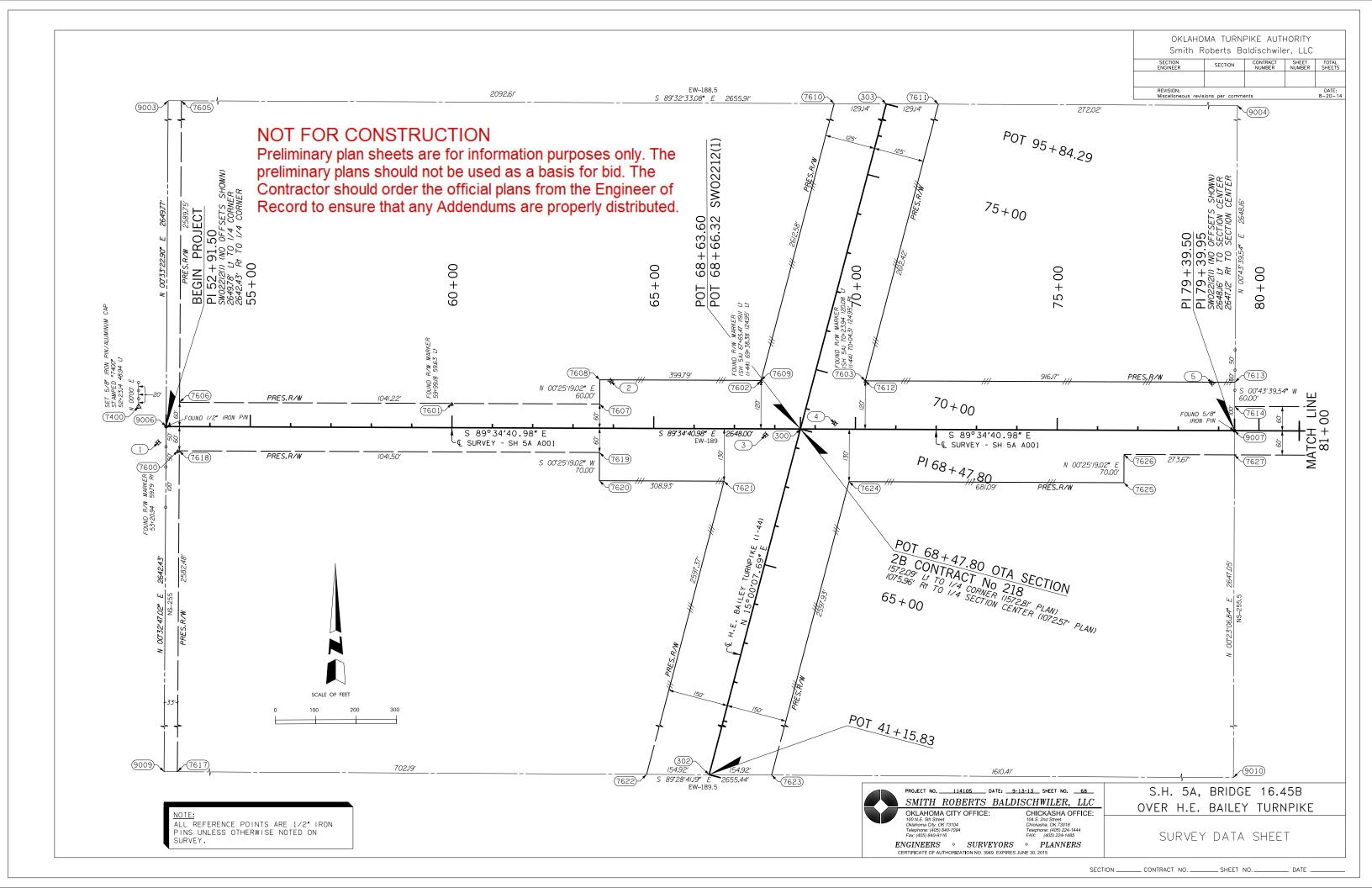
ENGINEERS • SURVEYORS • PLANNERS
CERTIFICATE OF AUTHORIZATION NO. 3949 EXPIRES JUNE 30, 2015

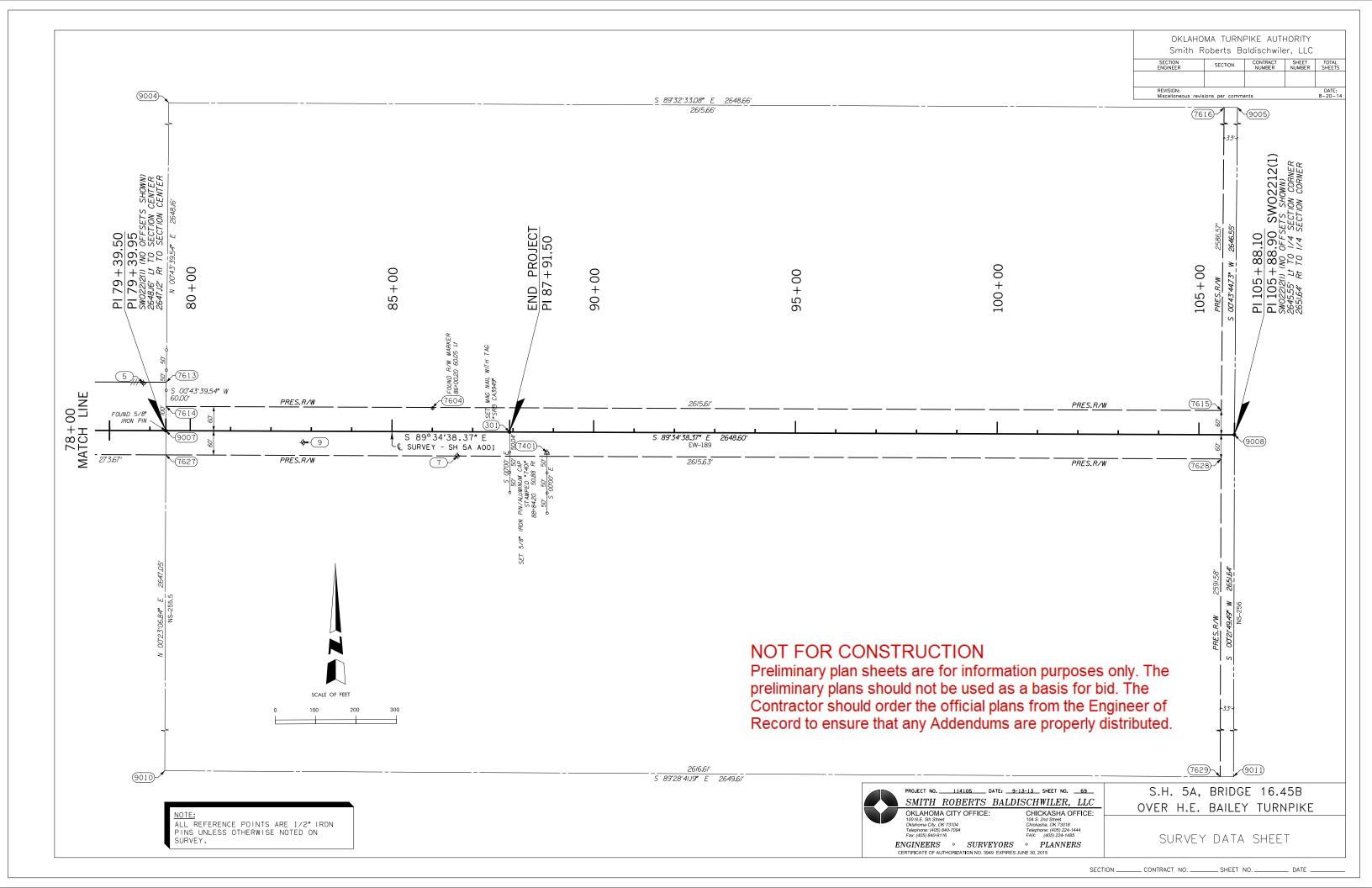
S.H. 5A, BRIDGE 16.45B OVER H.E. BAILEY TURNPIKE

> CHECK LEVELS AND ALIGNMENT REPORT COGO REPORT

SECTION _____ CONTRACT NO. _____ SHEET NO. _____ DATE ____







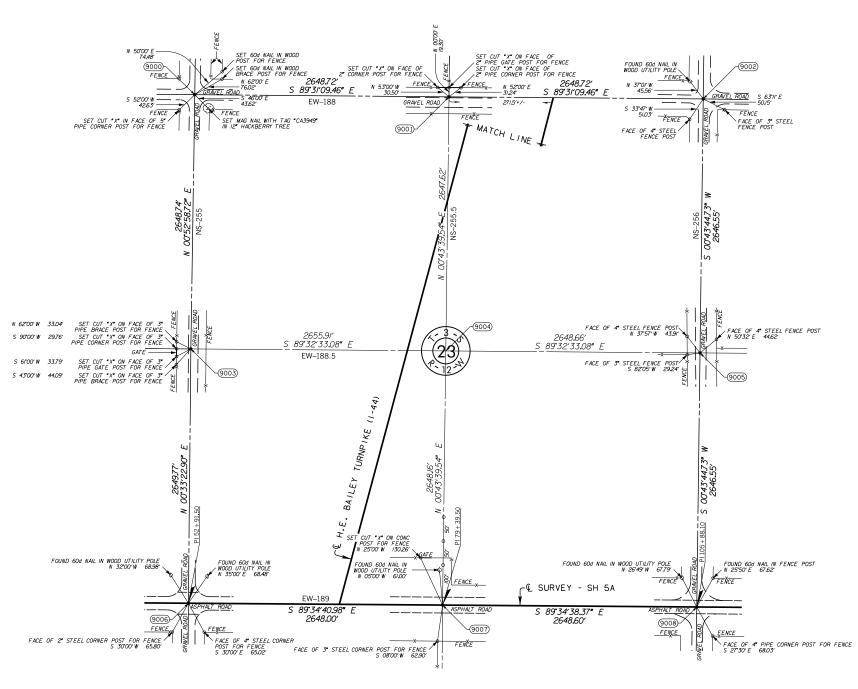
NOT FOR CONSTRUCTION

Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed.

NW CORNER - SET 1/2" IRON PIN WITH CAP "SRB CA3949" IN AGREEMENT WITH LOCAL EVIDENCE AND THE OKLAHOMA TURNPIKE AUTHORITY "SOUTHWESTERN TURNPIKE PLANS (H.E.BAILEY TURNPIKE)".

WEST 1/4 CORNER - FOUND 1/2" IRON PIN IN AGREEMENT WITH LOCAL EVIDENCE.

NORTH 1/2 CORNER - SET 1/2" IRON PIN WITH CAP "SRB CA3949" AT EQUIDISTANT AND ON LINE BETWEEN THE NW CORNER AND THE NE CORNER OF SECTION WHICH IS IN AGREEMENT WITH THE OKLAHOMA TURNPIKE AUTHORITY "SOUTHWESTERN TURNPIKE PLANS (H.E. BAILEY TURNPIKE)"



SW CORNER - FOUND 1/2" IRON PIN AND REFERENCES 1, 2, 3 AND 4 AS SHOWN ON OCCR PREPARED BY BILLY JACK WILLINGHAM FOR WILLINGHAM'S SURVEYING COMPANY FILED JULY 25, 2001.

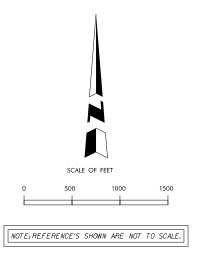
SOUTH 1/4 CORNER - FOUND 5/8" IRON PIN AND REFERENCES 2 AND 3 AS SHOWN ON OCCR PREPARED BY BILLY WAYNE MOSLEY FOR NORTH FORK SURVEYING AND DRAFTING FILED ON FEBRUARY 2, 1990.

NOTE: ALL REFERENCE POINTS ARE 1/2" IRON PINS UNLESS OTHERWISE NOTED ON OKLAHOMA TURNPIKE AUTHORITY Smith Roberts Baldischwiler, LLC

SECTION SECTION CONTRACT SHEET TOTAL NUMBER NUMBER SHEETS

REVISION: DATE:

NE CORNER - ODOT Sta. No. C-17-329 - FOUND 1/2" IRON PIN AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012.



EAST 1/4 CORNER - ODOT Sta, No. C-17-336 - FOUND 1/2" IRON PIN WITH CAP "CA 2054" AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012.

SE CORNER - ODOT Sta. No. C-17-340 - FOUND 1/2" IRON PIN AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012.



PROJECT NO. _____114105____ DATE; __9-13-13__ SHEET NO. ____70__ SMITH ROBERTS BALDISCHWILER, LLC

OKLAHOMA CITY OFFICE: 100 N.E. 5th Street Oklahoma City, OK 73104

FICE: CHICKASHA OFFICE: 104 S. 2nd Street Chickasha, OK 73018 Telephone: (405) 224-1444 FAX: (405) 224-1485

Fax: (405) 840-9116 FAX: (405) 224-1485

ENGINEERS • SURVEYORS • PLANNERS

ENGINEERS • SURVEYORS • PLAI
CERTIFICATE OF AUTHORIZATION NO. 3949 EXPIRES JUNE 30, 2015

S.H. 5A, BRIDGE 16.45B OVER H.E. BAILEY TURNPIKE

SECTION DATA SHEET

SECTION ______ CONTRACT NO. _____ SHEET NO. _____ DATE ___

Smith Roberts Baldischwiler, LLC NORTH 1/4 CORNER - FOUND 5/8" IRON PIN AND REFERENCES 2 AND 3 AS SHOWN ON OCCR PREPARED BY BILLY WAYNE MOSLEY FOR NORTH FORK SURVEYING AND DRAFTING FILED ON FEBRUARY 2, 1990. NE CORNER - ODOT Sta. No. C-17-340 - FOUND 1/2" IRON PIN AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012. NW CORNER - FOUND 1/2" IRON PIN AND REFERENCES 1, 2, 3 AND 4 AS SHOWN ON OCCR PREPARED BY BILLY JACK WILLINGHAM FOR WILLINGHAM'S SURVEYING COMPANY FILED JULY 25, 2001. FOUND 60d NAIL IN WOOD UTILITY POLE N 32°00' W 68.98' FOUND 60d NAIL IN WOOD UTILITY POLE N 26'49' W 67.79' FOUND 60d NAIL IN FENCE POST / N 25°50' E 67.62' FENCE 2648.60′ S 89°34′38.37″ 9006 9008 L SURVEY - SH 5A FACE OF 2" STEEL CORNER POST FOR FENCE S 3000 W 65.80 FENCE FACE OF 4" PIPE CORNER POST FOR FENCE S 27"30' E 68.03' NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE. 9009 FACE OF 3" STEEL CORNER POST FOR FENCE N 90'00' W 28.60' 9011)-(26)WEST 1/4 CORNER - FOUND 1/2" IRON PIN AND REFERENCES 1, 2, 3 AND 4 AS SHOWN ON OCCR PREPARED BY DENNIE J. HIGHTOWER FOR HIGHTOWER & ASSOCIATES, INC. FILED ON EAST 1/4 CORNER - ODOT Sta. No. C-17-347 - FOUND 1/2" IRON PIN AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012. EW-189.5 FOUND 60d NAIL IN IN 8" WOOD POST FOR FENCE S 85"00" W 30.50" FACE OF 4" STEEL CORNER POST FOR FENCE S 80'09' W 23.66' FACE OF 4" STEEL CORNER POST FOR FENCE N 90'00' E 29.90' FACE OF 4" STEEL CORNER POST FOR FENCE S 83"09" E 37.45" FACE OF 4" STEEL GATE POST FOR FENCE S 43"59" E 52.69" NOT FOR CONSTRUCTION Preliminary plan sheets are for information purposes only. The preliminary plans should not be used as a basis for bid. The Contractor should order the official plans from the Engineer of Record to ensure that any Addendums are properly distributed. MATCH LINE ACE OF 8" STEEL GATE POST FOR FENCE N 4600'W 3800' FACE OF 4" STEEL CORNER POST FOR FENCE N 44°25' E 36.02' FOUND CUT "X" SE CORNER OF CONCRETE HEADWALL N 5424'W 26,00' FENCE FENCE WPA HEADWALL GRAVEL ROAD FW_190 89°22′24,85″ 2657,70′ N 89°44′13.95" W 9014 WPA HEADWALL GRAVEL ROAD 9013) FENCE FACE OF 6" STEEL CORNER POST FOR FENCE S 36'37' E 40J2' FACE OF 4" STEEL BRCE POST FOR FENCE S 2000'W 37.00' SE CORNER - ODOT Sta. No. C-17-351- FOUND 1/2" IRON PIN AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY SHAWN SMITH FOR LEMKE LAND SURVEYING FILED ON MAY 8, 2012. PROJECT NO. ____114105 ___ DATE: ___9-13-13 __ SHEET NO. ___71__ SW CORNER - FOUND 1/2" IRON PIN WITH NO CAP AND REFERENCES 1, 2 AND 3 AS SHOWN ON OCCR PREPARED BY JACOB ROYCE CARROLL FOR CARROLL SURVEYING SERVICE FILED ON APRIL 11, 2003. SOUTH 1/4 CORNER - FOUND 1/2" IRON PIN AND REFERENCES 1 AND 3 AS SHOWN ON OCCR PREPARED BY RANDY WAYNE MOSLEY FOR NORTH FORK SURVEYING AND DRAFTING FILED ON FEBRUARY 2, 1990. SMITH ROBERTS BALDISCHWILER, LLC CHICKASHA OFFICE: 104 S. 2nd Street Chickasha, OK 73018 Telephone: (405) 224-1444 FAX: (405) 224-1485 OKLAHOMA CITY OFFICE: ENGINEERS • SURVEYORS • PLANNERS S.H. 5A, BRIDGE 16.45B ALL REFERENCE POINTS ARE 1/2" IRON PINS UNLESS OTHERWISE NOTED ON OVER H.E. BAILEY TURNPIKE SECTION DATA SHEET

OKLAHOMA TURNPIKE AUTHORITY

SECTION _____ CONTRACT NO. ____ SHEET NO. ___