

RAYMOND SCHEFFLER-COUNTY COMMISSIONER
DISTRICT NO. 3

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

△ REVISED Changed Project Number from STP-206D(038)CI
to STP-206C(038)CI 8/1/2016.

FED. ROAD DIST. NO.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
5	STP-206C(038)CI	1	10

DESIGN DATA
ADT 2016=100
ADT 2036=120
DESIGN SPEED=45 M.P.H.
TERRAIN-ROLLING

PLAN OF PROPOSED
COUNTY BRIDGE
FEDERAL AID PROJECT NO. STP-206C(038)CI △
BRIDGE & APPROACH PLANS
BLAINE COUNTY
(OLD NBI NO. NA)(NEW NBI. NO. 31657)
LOCATION NO. 06E0760N2680001
STATE JOB NO. 31659(04)
OTTER CREEK
LATITUDE 35°54'47"N LONGITUDE 98°13'37"W

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE
2	TYPICAL SECTION, SUMMARY OF PAY QUANTITIES & GENERAL NOTES
3	STORMWATER MANAGEMENT PLAN
4	EROSION CONTROL PLAN
5	ALIGNMENT, SURVEY REFERENCES & R/W
6	PLAN AND PROFILE
7	BOX CULVERT DETAILS
8-10	CROSS SECTIONS

ALSO, THE FOLLOWING STANDARD DRAWINGS WILL BE A PART OF THIS PROJECT:

ROADWAY	TRAFFIC	TRAFFIC
TSC2-3-1	DU1-1-00	TCS5-1-00
TSD-2-0	TCS1-1-01	TCS6-1-02
CET4S-3-1	TCS2-1-00	TCS7-1-01
SBI-4-2	TCS4-1-01	TCS8-1-00
FPI-3-3		TCS9-1-01
PUD-3-2		
RDI-3-1		

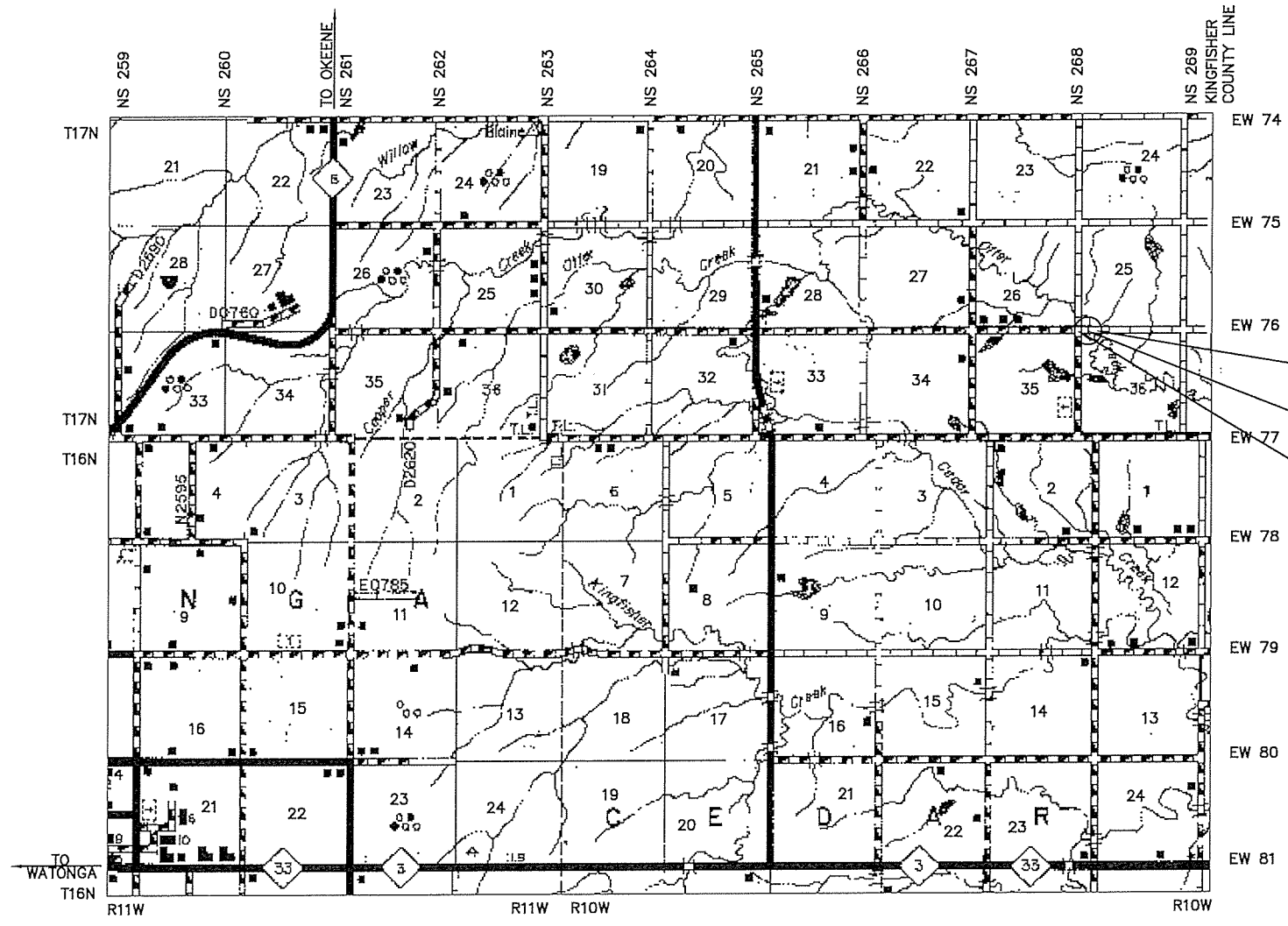
- SURVEY DATA**
- HORIZONTAL CONTROL
 - HORIZONTAL CONTROL FOR THIS SURVEY IS THE ESTABLISHED SECTION CORNERS ALONG THE CONSTRUCTION REFERENCE LINE & SECTION LINE
 - VERTICAL CONTROL
 - LEVEL DATUM IS MEAN SEA LEVEL (U.S.C. & G.S.)

JOHN S. NORTHUP, P.E. 15671
CIRCUIT ENGINEERING DISTRICT 7
P.O. BOX 337
CLINTON, OK. 73601

SCALES

PLAN 1"=50'
PROFILE HOR. 1"=50'
VER. 1"=5'
LAYOUT MAP 1"=5,280'

- CONVENTIONAL SIGNS**
- PROPOSED ROAD
 - RAILROADS
 - RANGE & TOWNSHIP SECTION LINES
 - QUARTER SECTION LINES
 - FENCES
 - GROUND LINE
 - EXISTING ROADS
 - BASE LINE
 - GRADE LINES
 - TELEPHONE & TELEGRAPH
 - POWER LINES
 - OIL WELLS
 - BUILDINGS
 - DRAINAGE STRUCTURES-IN PLACE
 - DRAINAGE STRUCTURES-NEW
 - RIGHT-OF-WAY LINES-EXISTING
 - RIGHT-OF-WAY LINES-NEW
 - RIGHT-OF-WAY MARKERS-IN PLACE
 - RIGHT-OF-WAY MARKERS-REMOVE & RESET
 - RIGHT-OF-WAY MARKERS-NEW
 - CONTROLLED ACCESS
 - RIGHT-OF-WAY FENCE



STA. 104+00 END CONSTRUCTION
F.A. PROJ. NO. STP-206C(038)CI △
END BRIDGE STA. 100+31.37
BRIDGE LENGTH=42.73'
BEGIN BRIDGE STA. 99+88.64
STA. 97+00 BEGIN CONSTRUCTION
F.A. PROJ. NO. STP-206C(038)CI △

DATE March 28, 2016
DIST. 1 Mike Allen
DIST. 2 Justin A.
DIST. 3 Raymond Scheffler

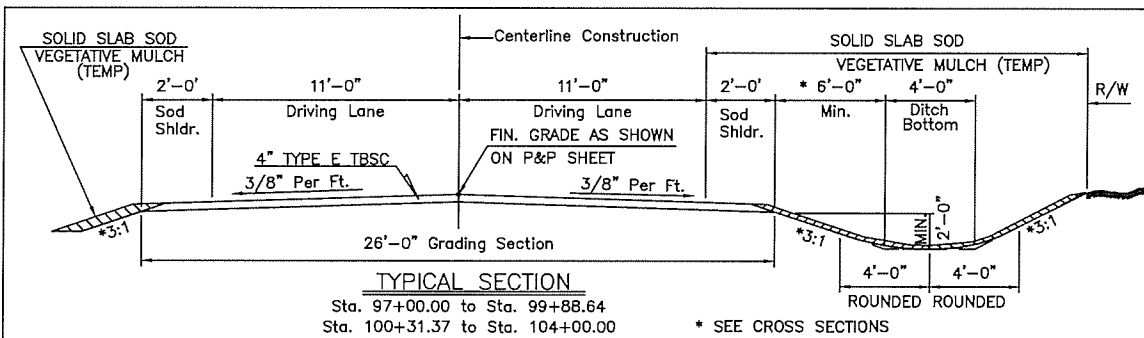
ATTN: Debra Wallace

JOHN S. NORTHUP
REGISTERED PROFESSIONAL ENGINEER NO. 15671

ROADWAY LENGTH _ _ _ 657.27 FT. _ _ _ 0.124 MI.
BRIDGE LENGTH _ _ _ 42.73 FT. _ _ _ 0.008 MI.
PROJECT LENGTH _ _ _ _ _ 0.132 MI.
EXCEPTIONS _ _ _ _ _ NONE

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

<p>CIRCUIT ENGINEERING DIST. 7 P.O. BOX 337 1779 MARSHALL RD. CLINTON, OK 73601 (580) 323-8885</p>		
<p>OKLAHOMA DEPARTMENT OF TRANSPORTATION</p> <p>DATE APPROVED _____ BY _____ CHIEF ENGINEER</p>	<p>DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION</p> <p>DATE APPROVED _____ BY _____ DIVISION ADMINISTRATION</p>	
SWO.	F.A. Project No. STP-206C(038)CI △	Sheet No. 1



TYPICAL SECTION
Sta. 97+00.00 to Sta. 99+88.64
Sta. 100+31.37 to Sta. 104+00.00 * SEE CROSS SECTIONS

GENERAL CONSTRUCTION NOTES – EROSION CONTROL

GRASS: All disturbed areas including ditches and shoulders shall be sodded with Bermuda Solid Slab Sod in accordance with Section 230.04(a) of the Standard Specifications.

FERTILIZER: Areas on which Bermuda Solid Slab Sod is to be planted shall have 10-20-10 fertilizer applied at the rate of 150 lbs. per Acre of sodding, one half after watering the prepared surface and prior to planting of Sod, and one half after sodding is completed with watering used to incorporate the fertilizer into the soil.

VEGETATIVE MULCH: The Vegetative Mulch shall be anchored in accordance with the "Mulching Tiller Method", as specified in Section 233.04(b)2 of the Standard Specifications.

WATERING: All areas to be sodded shall be watered before sod is planted to obtain adequate soil moisture to a depth of at least 5".

SEASONAL PLANTING RESTRICTIONS:

The Planting of Bermuda Solid Slab Sod shall be restricted to the period from April 15th. to September 15th.

If the dirtwork is completed after the approved season for Bermuda Solid Slab Sodding has ended, all disturbed areas will be covered with Vegetative Mulch in accordance with Section 233.04(b)2 of the Standard Specifications.

At the beginning of Turfing Operations, any areas included in Planned Quantities that have grown a satisfactory volunteer turf of perennial grass, as determined by the Engineer shall not be sodded.

GENERAL CONSTRUCTION NOTES (BRIDGE)

All construction and materials shall comply with the 2009 Oklahoma Standard Specifications for Highway Construction English Version, except as modified by the plans and Special Provisions.

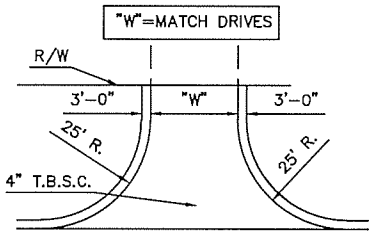
The Bridge site will be closed to all public traffic during construction. The Contractor shall be responsible for all Construction Traffic Control. All signs, barricades, lights, and other Traffic Control Devices and Measures, etc. shall be provided in accordance with the Standards set forth in the Manual on Uniform Traffic Control Devices, Current Edition as revised, and as shown on the TCS Standards. "Road Closed 1 Mile Ahead" sign will be placed at the first intersection East and "Road Closed 1 Mile Ahead" sign will be placed at the first intersection West from the project. All construction signs with (10) Square Feet or more will be double posted.

Class AA Concrete required for RCB Construction.

The Contractor shall give written notice to the County, CED #7, and ODOT Div 5 fourteen (14) calendar days before any construction or demolition begins on this project.

County to be responsible for the following:

1. Acquiring all required R/W.
2. Removal and resetting all fences on right-of-way lines.
3. Relocating all utilities.
4. Detour signing if necessary.

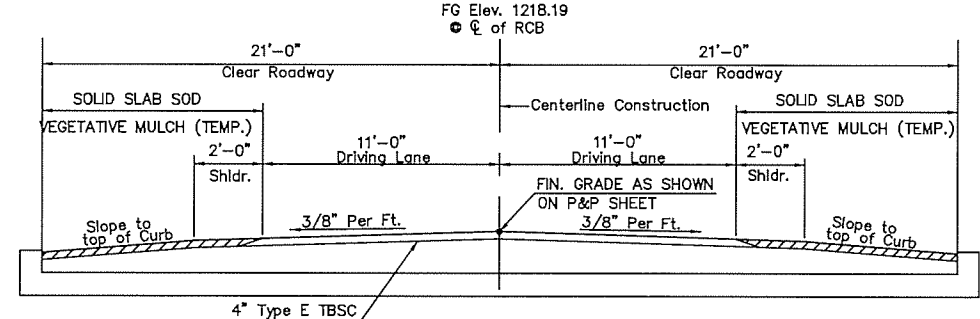


TYPICAL SECTION LINE RETURN

SUMMARY OF RETURNS				
STATION	LOCATION	STYLE	"W"	T.B.S.C. TYPE E TON
97+65.70	LT. & RT.	Sec. Line	22'	34.00
97+90.00	LT.	Field Ent.	20'	12.00

PAY ITEM NOTES

- (G-48) In accordance with the Oklahoma Underground Facilities Damage Prevention Act the Contractor shall notify the Oklahoma One-Call System, Inc. 48 hours prior to beginning excavation. Oklahoma One-Call System, Inc. "Call Okla" 1-800-522-6543 or 811
- (R-1) Payment for this item will be based on plan quantity. See 2009 Standard Specifications for Highway Construction, "Plan Quantities" Section 109.01(B).
- (R-7) Price Bid to include cost of 10-20-10 Fertilizer, Estimated at 200 lbs. per 1,000 sq. yds.
- (R-11) The quantity estimated for Temporary Erosion and Sediment Control is 1.24 Acres. (One Application).
- (R-25) Estimated at 120 lbs. per C.F.
- (R-41) Includes 10 Cu. Yds. to be used in a manner approved by the Engineer.
- (1) This pay item to include Roadway Excavation, Channel Excavation, Unclassified Borrow, Clearing and Grubbing and Construction of Roadway Embankment. Includes all costs to remove, stockpile and replace the topsoil on the finished grading slopes and old channel, in accordance with Section 205 of the Standard Specifications. Price bid also includes cost of 18-46-0 Fertilizer estimated at 150 lbs. per acre. Any material not suitable for roadway embankment to be disposed of in a manner approved by the Engineer. See Sheet 6 for Grading Estimate.
- (2) Estimated Quantity only. Location and actual quantity required to be determined by the Engineer.
- (3) Price bid to include cost of silt removal.
- (4) Contractor will supply sufficient water to produce adequate grass growth as approved by the Engineer.
- (5) Includes 34 Tons for Section Line Returns and 12 Tons for Field Entrance. T.B.S.C. shall be from a Limestone source.
- (6) Shall include all Traffic Control Devices necessary to regulate traffic during construction. This item shall be paid for as Lump Sum due to the minor extent of construction for this project. All Traffic Control shall be in accordance with State Standards and the Manual on Uniform Traffic Control Devices, Current Edition.
- (7) Item "Removal of Existing Bridge Structure" consist of removal and disposal of the Existing Double 72" C.G.M.P. x 45' Lg. in accordance with Section 619.04(b)2 of the Standard Specifications and in a manner approved by the Engineer.
- (8) The 18" Rip Rap and 6" Filter Blanket Layer will be placed to protect the wings and Channel where shown on plans, and as directed by the Engineer.
- (9) Price bid to include all costs for bedding materials, and non-flammable end sections, as required by Special Provision 613-1(a-b)09 & the P.P. pipe manufacturer, to fit CET's.



TYPICAL SECTION OVER RCB
Sta. 99+88.64 to Sta. 100+31.37

NOTE:
NO PRECAST BOXES ALLOWED.

NOTE:
RCB WINGS TO BE POURED MONOLITHIC WITH BARREL WALLS. NO CONSTRUCTION JOINTS ALLOWED.

PAY QUANTITIES			
100 ROADWAY J/P NO. 31659(04)			
ITEM	DESCRIPTION	UNIT	QUANTITY
202(H)	0185 EARTHWORK (1)	L. SUM.	1.00
221(C)	2801 TEMPORARY SILT FENCE (2) (3)	LF.	200.00
221(F)	0100 TEMPORARY SILT DIKE (2) (3)	LF.	200.00
230(A)	2806 SOLID SLAB SODDING (4) (R-7)	S.Y.	5,980.00
233(A)	2817 VEGETATIVE MULCHING (R-11)	AC.	1.24
402(E)	0225 TRAFFIC BOUND SURFACE COURSE TYPE E (5) (R-25)	TON	359.00
509(D)	0325 CLASS C CONCRETE (R-41)	C.Y.	10.00
613(E)	5520 (SP) 24" CORR. POLYPROPYLENE PIPE (9)	LF.	195.00
613(M)	7187 TYPE B4 CULVERT END TREATMENT	EA.	4.00
853	9024 DELINEATORS (TYPE I, CODE I)	EA.	4.00

PAY QUANTITIES			
200 BRIDGE TRIPLE 11'-0" X 6'-6" X 42' CL. RDY. RCB, SKEWED 30° R.F., DESIGN NO. 17			
ITEM	DESCRIPTION	UNIT	QUANTITY
202(A)	1301 UNCLASSIFIED EXCAVATION (R-1)	C.Y.	1,946.00
501(A)	1306 STRUCTURAL EXCAVATION UNCLASSIFIED (R-1)	C.Y.	177.00
509(A)	1326 CLASS AA CONCRETE (R-1)	C.Y.	248.00
511(A)	1332 REINFORCING STEEL (R-1)	LB.	41,248.00
601(B)	1353 TYPE 1-A PLAIN RIP RAP (8)	TON	504.00
601(C)	1355 TYPE 1-A FILTER BLANKET (8)	TON	168.00
619(D)	1397 REMOVAL OF EXISTING BRIDGE STRUCTURE (7)	L. SUM.	1.00
880(J)	8905 CONSTRUCTION TRAFFIC CONTROL (6)	L. SUM.	1.00

PAY QUANTITIES			
640 CONSTRUCTION			
ITEM	DESCRIPTION	UNIT	QUANTITY
220	2800 SWPPP DOCUMENTATION AND MANAGEMENT	L. SUM.	1.00
641	1399 MOBILIZATION	L. SUM.	1.00

PAY QUANTITIES			
600 CONSTRUCTION STAKING			
ITEM	DESCRIPTION	UNIT	QUANTITY
642(B)	0096 STAKING LEVEL II	L. SUM.	1.00

BLAINE COUNTY OTTER CREEK

Design J.S.N. 09/15
Drawn J.R.J. 12/15
Checked M.W.C. 04/16
Approved J.S.N. 04/16
Consultant CED #7

TYPICAL SECTION & SUMMARY OF PAY QUANTITIES & GENERAL NOTES
STATE/JOB No. 31659(04) Sheet No. 2

STORM WATER MANAGEMENT PLAN

REVISIONS	
DESCRIPTION	DATE

SITE DESCRIPTION

EROSION AND SEDIMENT CONTROLS

△ REVISED Title Block 6/16/2016. J.J.

PROJECT LIMITS: BEGINNING 65.70 FEET WEST OF THE INTERSECTION OF SECTION LINE EW 76 & SECTION LINE NS 268 & EXTENDING EAST 700.00 FEET (3.0 MILES NORTH AND 11.1 MILES EAST OF JUNCTION OF S.H. 33 & U.S. 270) IN BLAINE COUNTY, PROJECT LENGTH 0.133 MILE.

PROJECT DESCRIPTION: BRIDGE & APPROACH PLANS, 700.00 OF ROADWAY (T.B.S.C., TYPE E), TRIPLE 11' x 6.50' x 42.00' RCB SPANS= 42.73' LONG RCB BRIDGE WITH 42.00' CLEAR ROADWAY, SKEWED 30' R.F. & 18" RIP RAP TO PROTECT WINGS, VEGETATIVE MULCH & SOLID SLAB SODDING.

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES: _____
Prior to initiating soil disturbing activities, the Contractor will install all perimeter temporary sediment controls specified. Strip, stockpile and stabilize topsoil. Clear and grub only in necessary areas, preserving as much native vegetation as possible. Install, maintain and/or move temporary sediment items with construction operations as practical. If directed by the Engineer, plant temporary seeding. Replace salvaged topsoil and devices when an acceptable vegetative cover (at least 70%) has been attained. As site conditions warrant, the Contractor may choose to modify the type or arrangement of specified practices to improve their effectiveness as approved by the Engineer. The Contractor will maintain a log of the dates of major soil disturbance activities, and also the dates of installation of erosion control measures.

SOIL TYPE: YAHOLA AND PORT LOAM

AREA TO BE DISTURBED: 1.50 ACRES

OFFSITE AREA TO BE DISTURBED: _____
 (FOR CONTRACTOR USE)

MAXIMUM ACRES TO BE DISTURBED AT ANY ONE TIME: _____
 (FOR CONTRACTOR USE)

LATITUDE & LONGITUDE OF CENTER OF PROJECT: LAT: 35°54'47"N LONG: 98°13'37"W

NAME OF RECEIVING WATERS: OTTER CREEK

SENSITIVE WATERS OR WATERSHEDS: YES NO

303(d) IMPAIRED WATERS: YES NO

NOTE:
 THIS SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE MAP THAT ILLUSTRATES THE DRAINAGE PATTERNS/PATHWAYS AND RECEIVING WATERS FOR THIS PROJECT. THIS SHEET SHOULD ALSO BE USED WITH THE EROSION CONTROL SUMMARIES, PAY ITEMS, & NOTES.

SOIL STABILIZATION PRACTICES:

- TEMPORARY SEEDING
- PERMANENT SODDING, SPRIGGING OR SEEDING
- VEGETATIVE MULCHING
- SOIL RETENTION BLANKET
- 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
- TEMPORARY SILT FENCE
- TEMPORARY SILT DIKES
- TEMPORARY BALE BARRIERS
- TEMPORARY FIBER LOG
- DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR OR PERIMETER SWALES
- ROCK FILTER DAMS
- TEMPORARY SLOPE DRAIN
- PAVED DITCH W/ DITCH LINER PROTECTION
- TEMPORARY DIVERSION CHANNELS
- TEMPORARY SEDIMENT BASINS
- TEMPORARY SEDIMENT TRAPS
- TEMPORARY SEDIMENT FILTERS
- TEMPORARY SEDIMENT REMOVAL
- RIP RAP
- INLET SEDIMENT FILTER
- TEMPORARY BRUSH SEDIMENT BARRIERS
- SANDBAG BERMS
- TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

- HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

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 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, DRAINAGEWAYS, 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) FORM 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 POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF 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 2009 ODOT 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.

DESIGN	M.W.G. 09/15	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STORMWATER MANAGEMENT PLAN
DRAWN	M.W.G. 12/15	
CHECKED	J.S.N. 04/16	
APPROVED	M.W.G. 04/16	
SQUAD	CE# 7	

SECTION 26, T17N, R10W

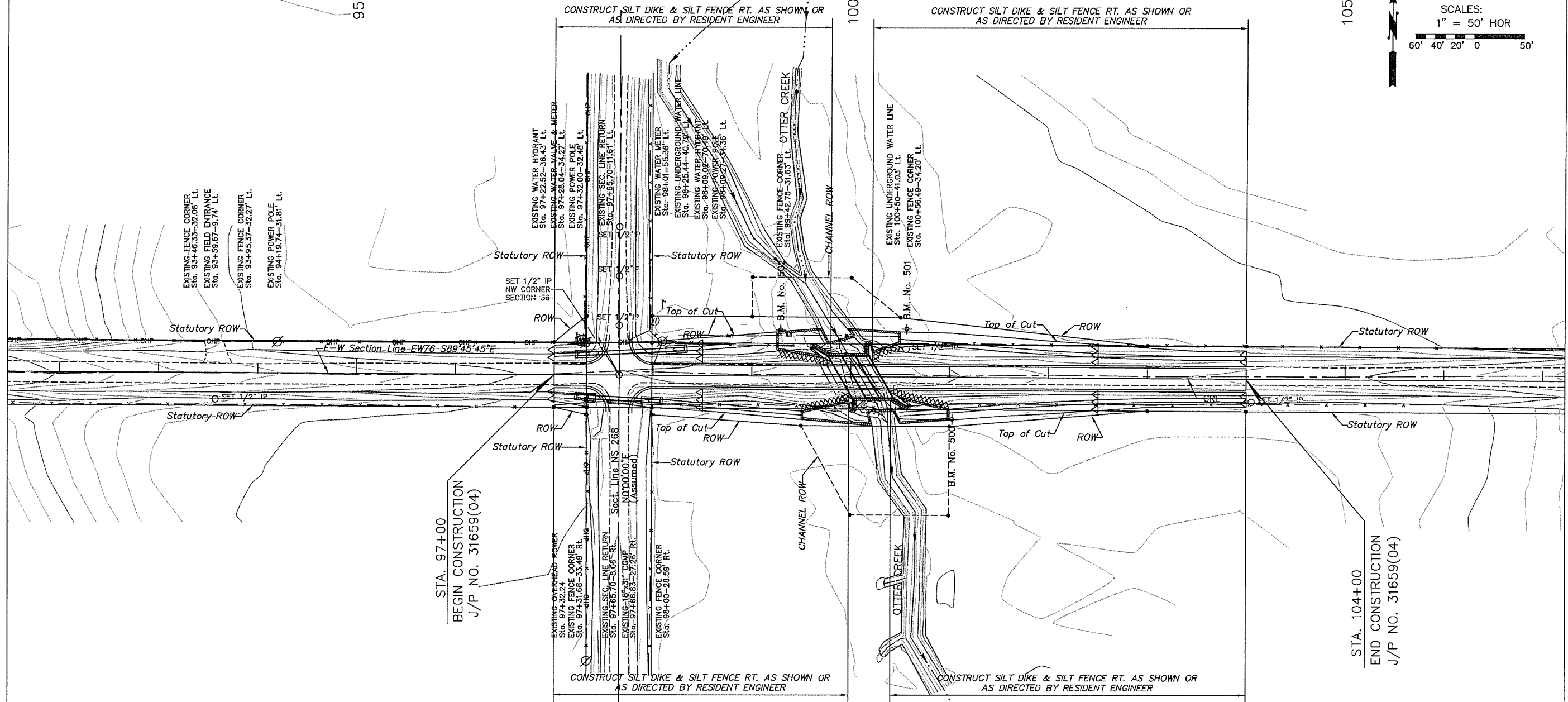
SECTION 25, T17N, R10W

95+00

100+00

105+00

SCALES:
1" = 50' HOR
60' 40' 20' 0 50'



STA. 97+00
BEGIN CONSTRUCTION
J/P NO. 31659(04)

STA. 104+00
END CONSTRUCTION
J/P NO. 31659(04)

LEGEND	
TEMPORARY SILT DIKE	▲▲▲▲▲
TEMPORARY SILT FENCE	XXXXXX

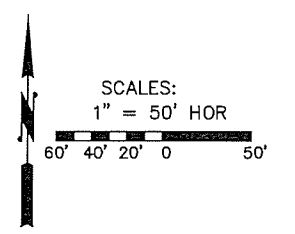
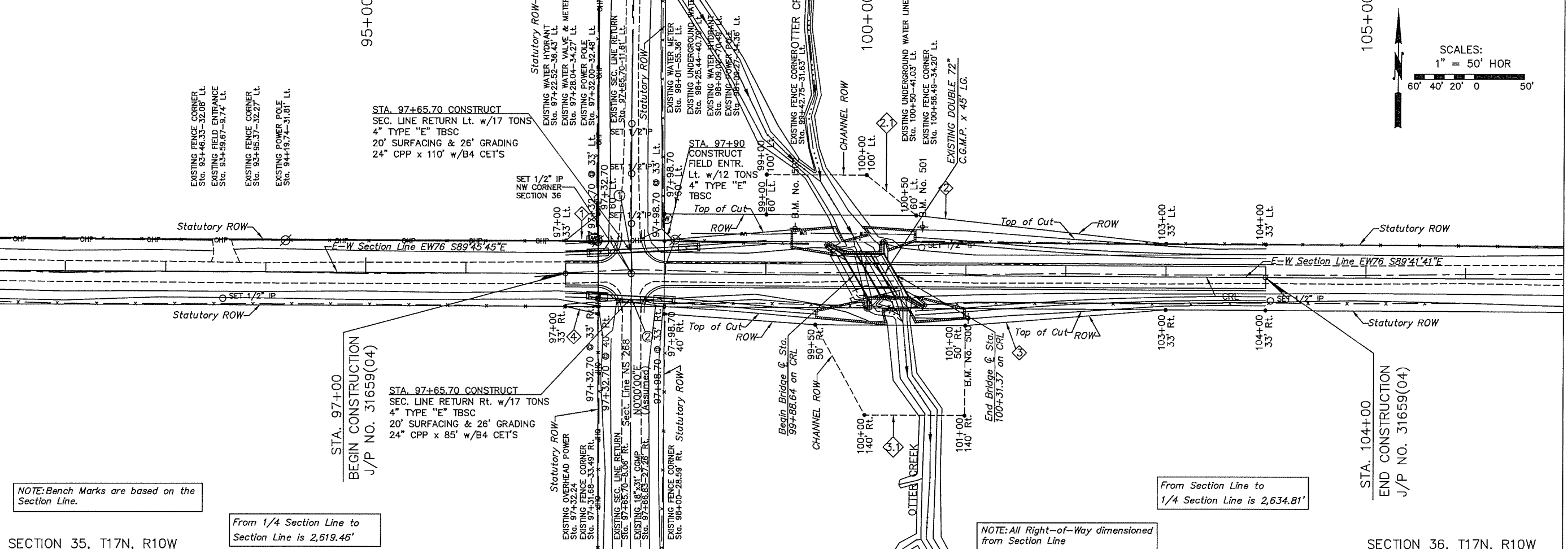
SECTION 35, T17N, R10W

SECTION 36, T17N, R10W

BLAINE COUNTY		OTTER CREEK	
Design	J.S.N. 09/15	EROSION CONTROL PLAN	STATE/JOB No. 31659(04) Sheet No. 4
Drawn	J.R.J. 12/15		
Checked	M.W.G. 04/16		
Approved	J.S.N. 04/16		
Consultant	CED #7		

SECTION 26, T17N, R10W

SECTION 25, T17N, R10W



NOTE: Bench Marks are based on the Section Line.

From 1/4 Section Line to Section Line is 2,619.46'

From Section Line to 1/4 Section Line is 2,634.81'

NOTE: All Right-of-Way dimensioned from Section Line

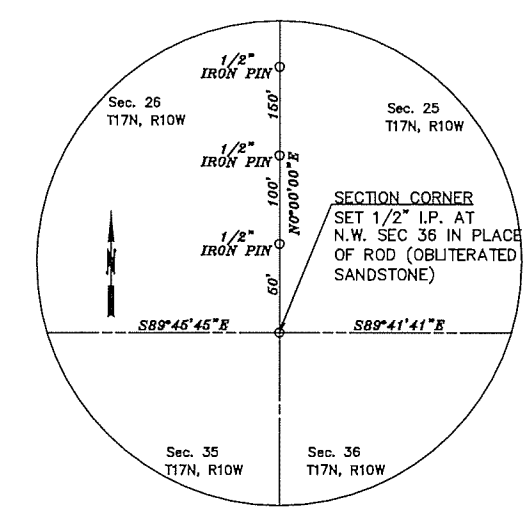
SECTION 35, T17N, R10W

SECTION 36, T17N, R10W

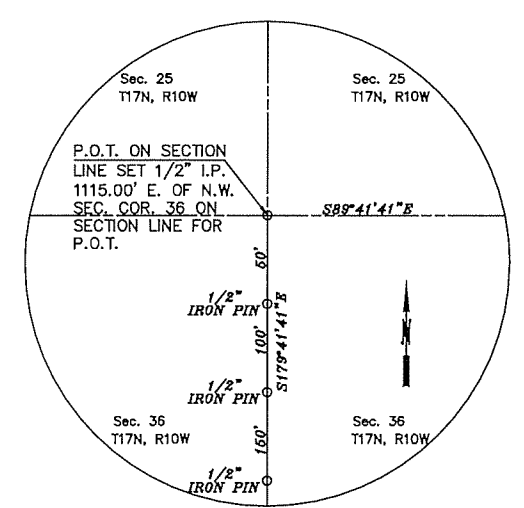
B.M. #500-1/2" Iron Pin
Sta. 101+02.90
42.74 Ft. Rt.
Elev. 1212.73

B.M. #501-1/2" Iron Pin
Sta. 100+56.53
48.44 Ft. Lt.
Elev. 1213.34

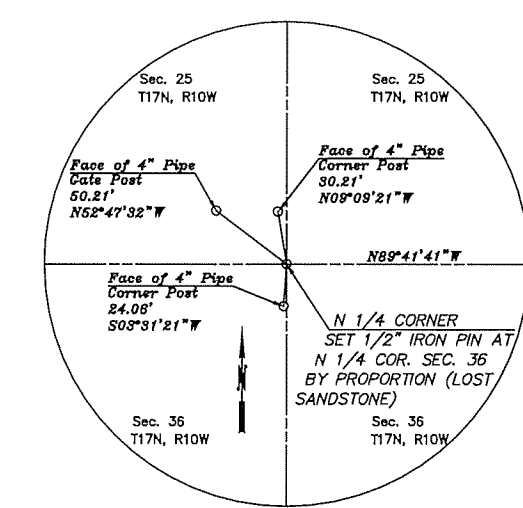
B.M. #502-1/2" Iron Pin
Sta. 99+29.00
46.58 Ft. Lt.
Elev. 1212.55



N.W. SECTION CORNER
SECTION 36, T17N, R10W
STA. 97+65.70
X=1901052.4082
Y=332472.2892



P.O.T. ON SECTION LINE
SECTION 36, T17N, R10W
STA. 108+80.70
X=1902167.3923
Y=332466.3486



N. 1/4 CORNER
SECTION 36, T17N, R10W
STA. 124+00.51
X=1903687.1773
Y=332458.2513

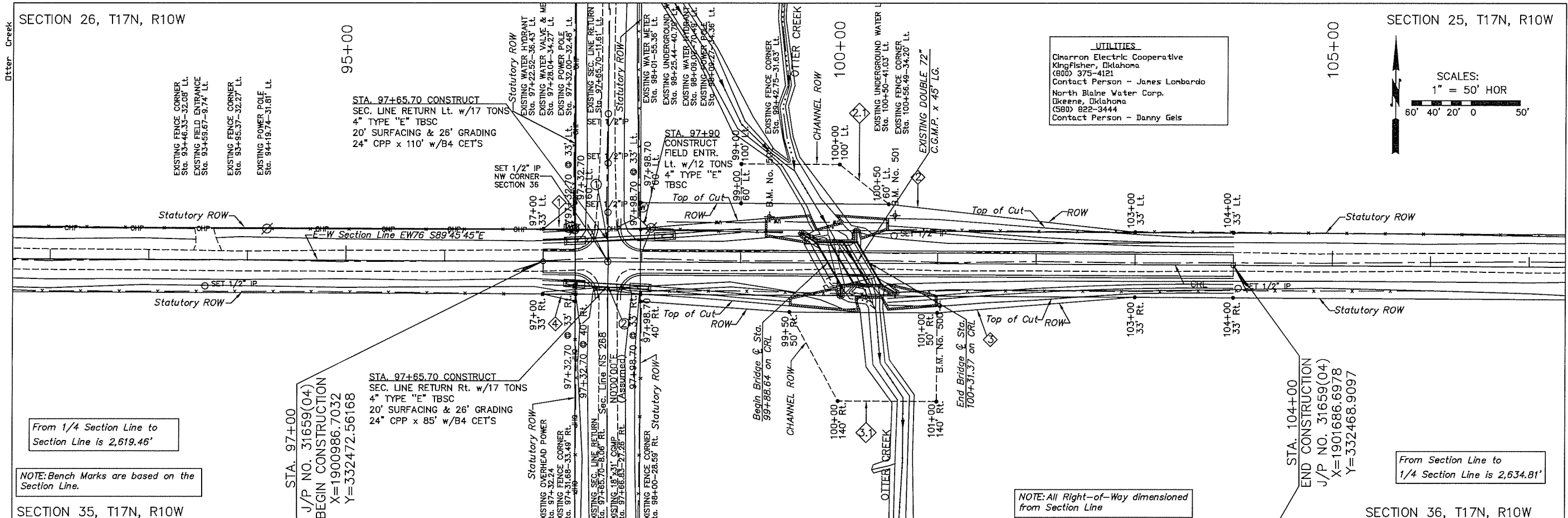
BLAINE COUNTY

OTTER CREEK

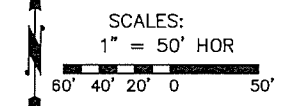
Design	J.S.N. 09/15
Drawn	J.R.J. 12/15
Checked	M.W.G. 04/16
Approved	J.S.N. 04/16
Consultant	GED #7

ALIGNMENT, SURVEY REFERENCES AND R/W

STATE/JOB No. 31659(04) Sheet No. 5



UTILITIES
 Charron Electric Cooperative
 Kingfisher, Oklahoma
 (800) 375-4121
 Contact Person - James Lombardo
 North Blaine Water Corp.
 Okemune, Oklahoma
 (580) 822-3444
 Contact Person - Danny Gels



From 1/4 Section Line to
 Section Line is 2,619.46'

NOTE: Bench Marks are based on the
 Section Line.

From Section Line to
 1/4 Section Line is 2,634.81'

Station	Elevation (ft.)	Notes	
1235	42.74	B.M. #500-1/2" Iron Pin Sta. 101+02.90	
1230	46.44	B.M. #501-1/2" Iron Pin Sta. 100+56.53	
1225	46.58	B.M. #502-1/2" Iron Pin Sta. 99+29.00	
1220	1215.52	1215.98	1216.55
1215	1216.15	1217.51	
1210	1217.70	1218.30	
1205	1218.30	1219.95	
1200	1220.60	1222.90	
1195	1224.40	1227.70	
1190	1230.00	1233.30	

GRADING ESTIMATE

Roadway Embankment +20%	1316 C.Y.
Misc. Earthwork (A)	200 C.Y.
Roadway Unclassified Excavation (c)	1269 C.Y.
Channel Excavation (B)	200 C.Y.
Borrow	47 C.Y.

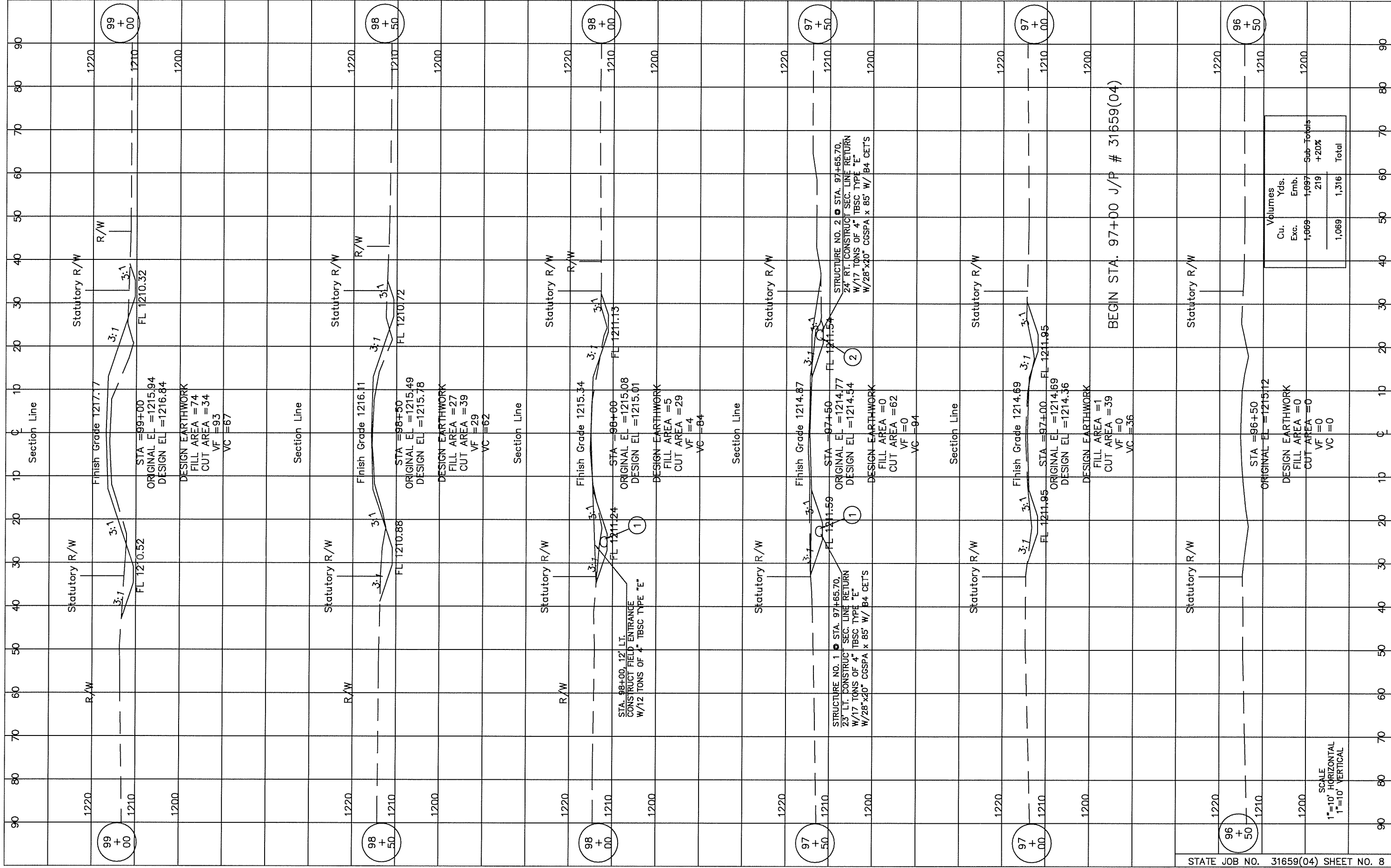
(A) For Dikes, Drives and Misc. Embankment not shown on the cross-sections.
 (B) Estimated quantity that may be used to reduce borrow.
 (C) Includes 200 C.Y. for Misc. Excavation not shown on the cross-sections.

HYDRAULIC DATA

D.A. = 10.5 Sq. Mi. Total
 S.C.S. C.A. = 0.00 Sq. Mi.
 $V_{25} = 3.770$ c.f.s.
 $V_{30} = 9.14$ f.p.s.
 $Q_{30} = \text{Calc. H.W. } 1215.29 \text{ feet}$
 $Q_{50} = 4.830$ c.f.s.
 $V_{50} = 8.85$ f.p.s.
 $Q_{50} = \text{Calc. H.W. } 1215.70 \text{ feet}$
 $Q_{100} = 8.160$ c.f.s.
 $V_{100} = 8.83$ f.p.s.
 $Q_{100} = \text{Calc. H.W. } 1215.93 \text{ feet}$
 $Q_{10}(10 \text{ Years}) = 2.810$ c.f.s.
 $V_{10} = 8.77$ f.p.s.
 $Q_{10} = \text{Calc. H.W. } 1215.94 \text{ feet}$
 Extreme H.W. on Record = NA
 Maximum Scour Depth = NA

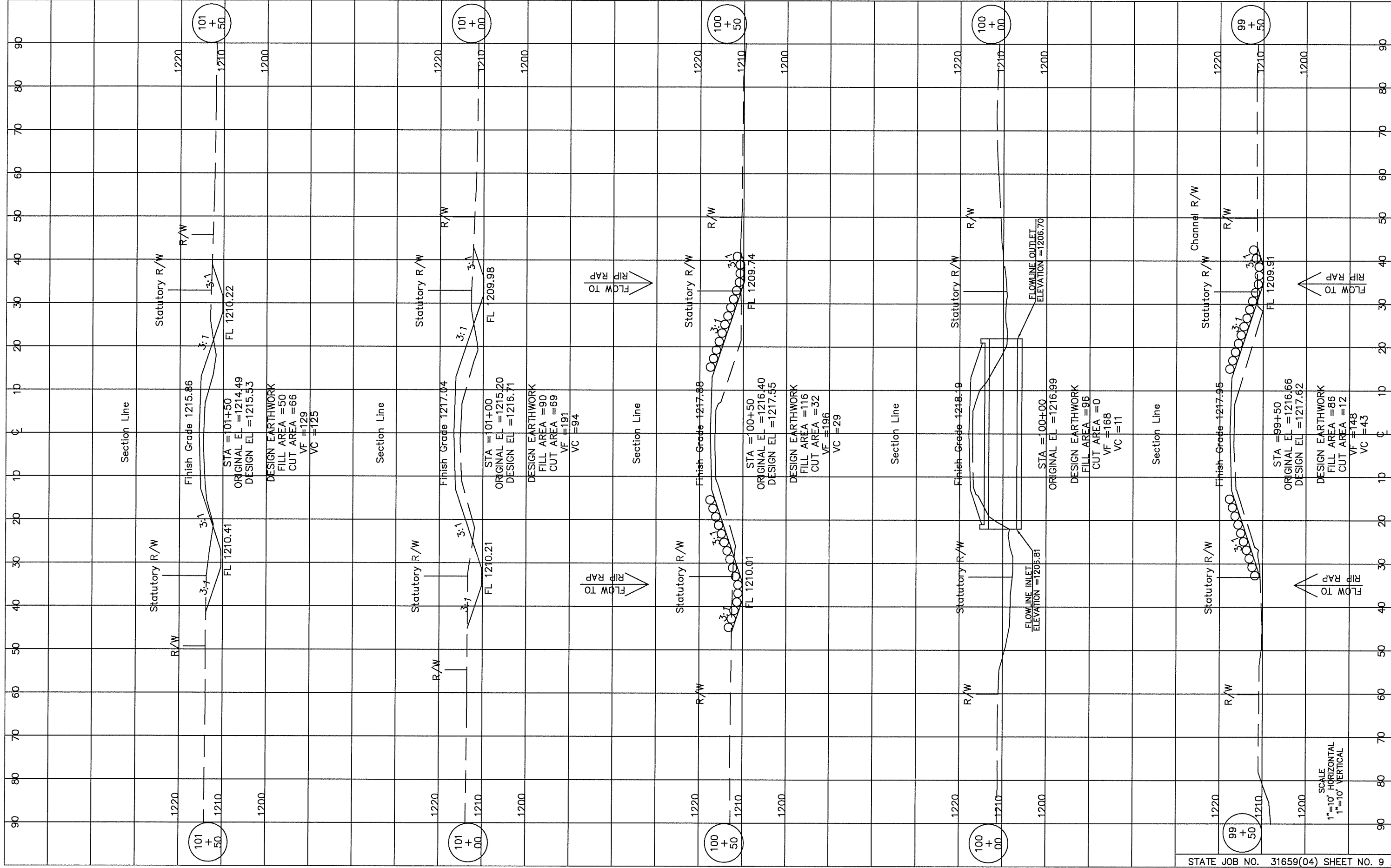
SCALES:
 1" = 50' HOR
 1" = 5' VER

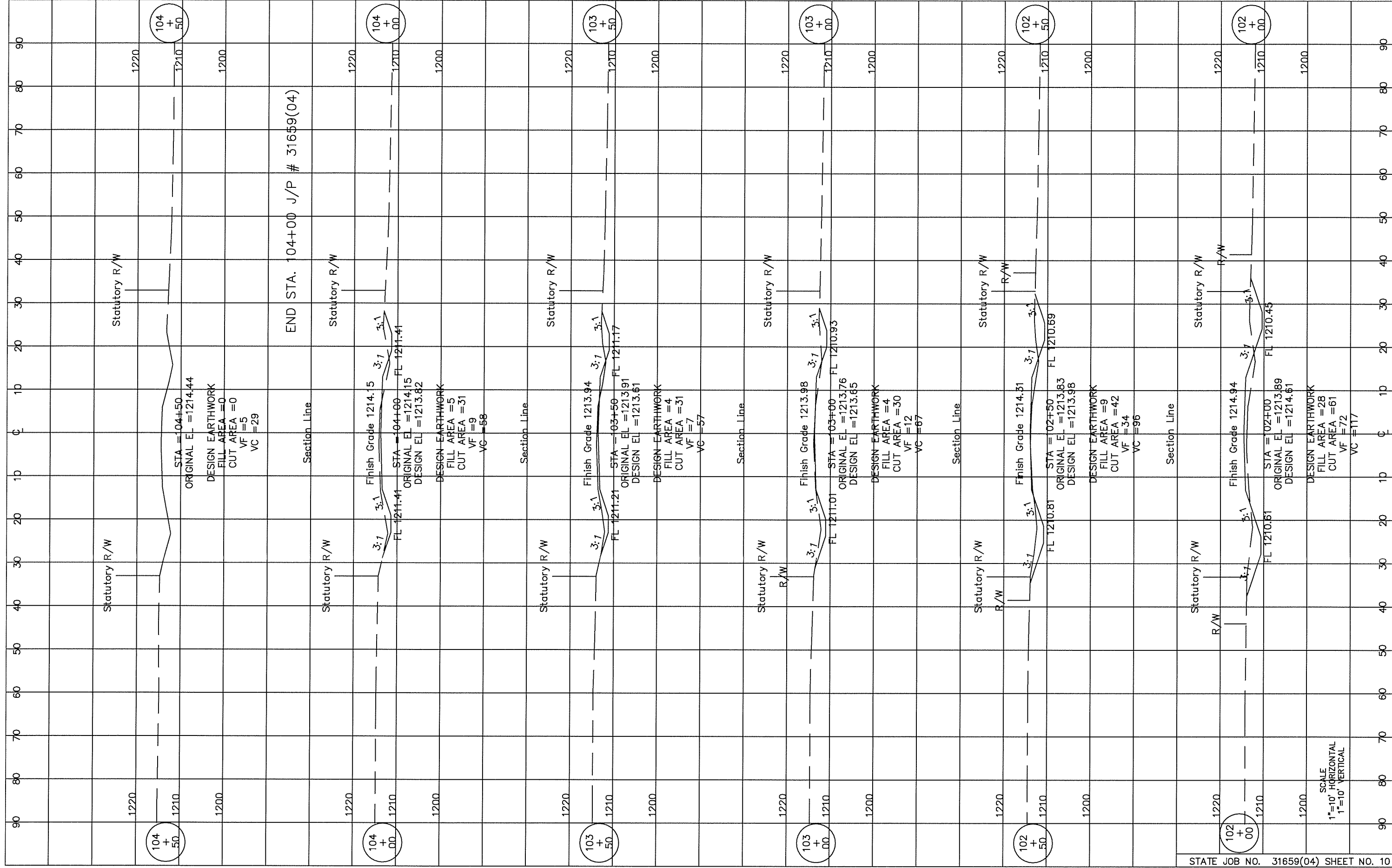
Bridge 'A' Centerline Sta. 100+10
 Const. 3-11" x 6.5" x 50.8" R.C.B. Span
 30' R.F., Design Special No. 6
 42'-0" Cl. Rdy.



Volumes		
Cu. Yds.	Exc.	Emb.
1,069	1,097	219
Sub-Totals		+20%
1,069	1,316	Total

BEGIN STA. 97+00 J/P # 31659(04)





END STA. 104+00 J/P # 31659(04)

SCALE
1"=10' HORIZONTAL
1"=10' VERTICAL