

STATE HIGHWAY

HOLT COUNTY



SYMBOLS

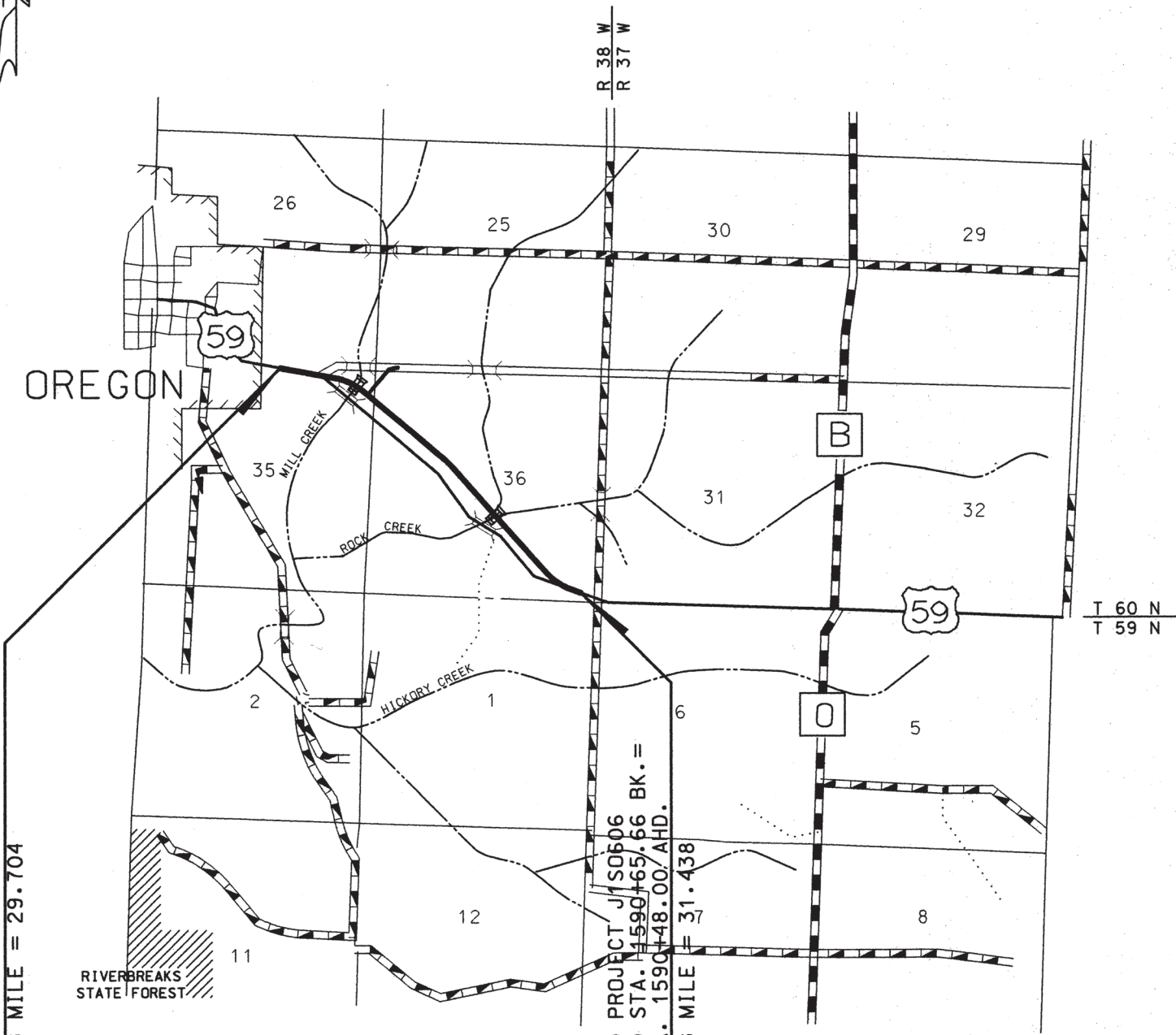
- BRIDGE
- CULVERT
- DRAINAGE DITCH
- WATER MAIN
- GAS
- ELECTRIC
- TELEPHONE
- SEWER
- MANHOLE
- HYDRANT
- WELL
- DAM
- DIKE

BEG. PROJECT J1S0606
 BEG. STA. 1499+00.00
 LOG MILE = 29.704

RIVERBREAKS
 STATE FOREST

RELOC., GRADING, PAVING, DRAINAGE,
 AND BOX CULVERTS

END PROJECT J1S0606
 END STA. 1590+65.66 BK. =
 STA. 1590+48.00 AHD.
 LOG MILE = 31.438



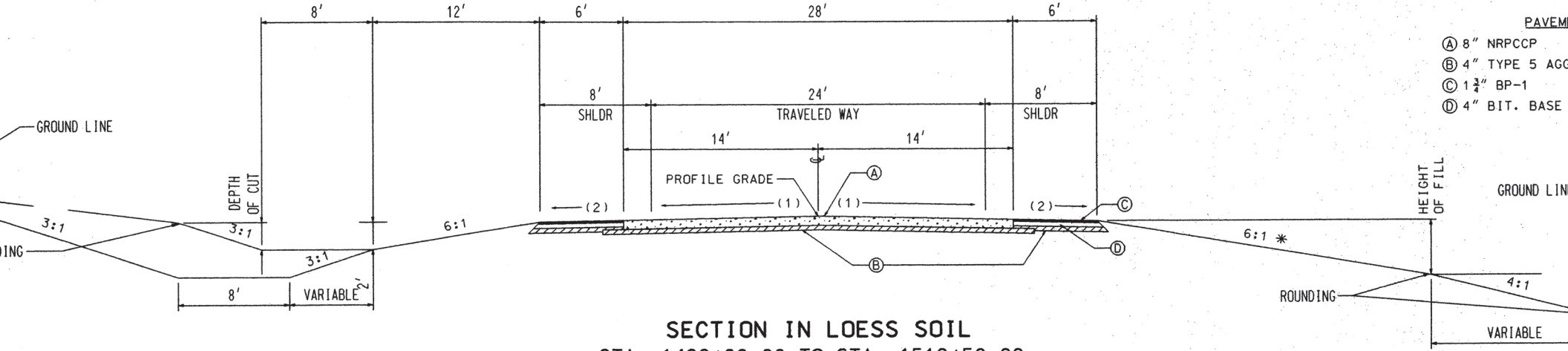
DE
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TO
 NE
 ST

FE

- Ⓐ 8" NRPCCP
- Ⓑ 4" TYPE 5 AGG
- Ⓒ 1 1/4" BP-1
- Ⓓ 4" BIT. BASE

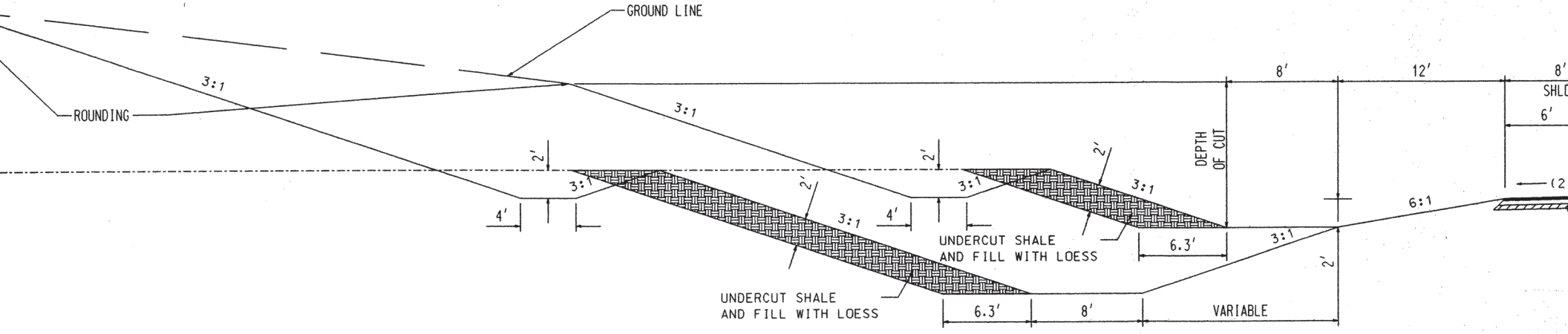


SECTION IN LOESS SOIL

STA. 1499+00.00 TO STA. 1519+50.00
 STA. 1527+50.00 TO STA. 1568+00.00
 STA. 1574+50.00 TO STA. 1590+65.66

THE WIDTH OF RIGHT OF WAY WILL BE 120 FEET. MORE MAY BE SECURED TO SATISFY DESIGN FEATURES OF THIS HIGHWAY.

* THE DIST POINT SH MAY VARY NOT EXCE THE SOIL



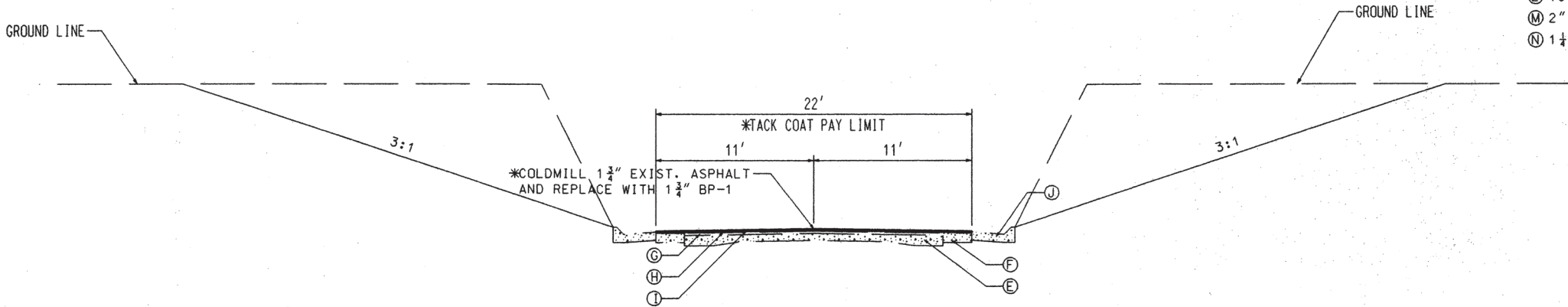
CUT SECTION IN LOESS - SHALE SOIL

STA. 1519+50.00 TO STA. 1527+50.00
 STA. 1568+00.00 TO STA. 1574+50.00

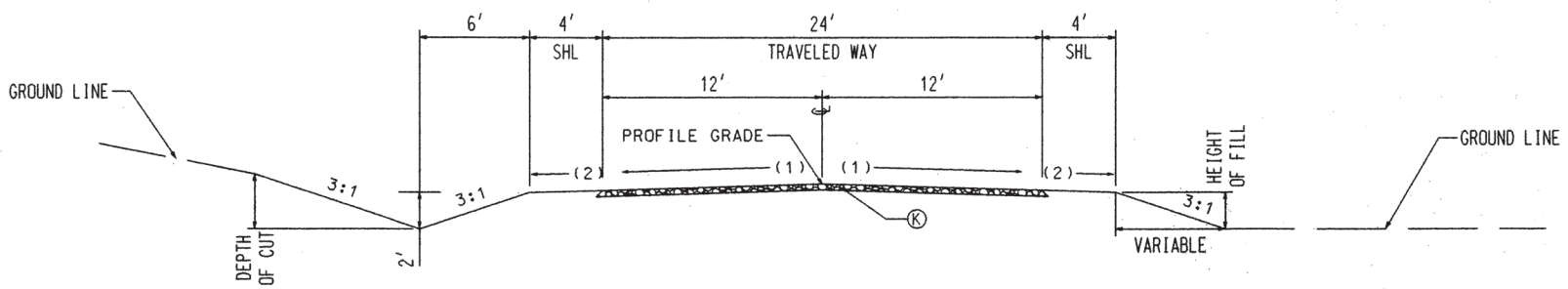
AND REPLACE WITH 1 3/4" BP-1



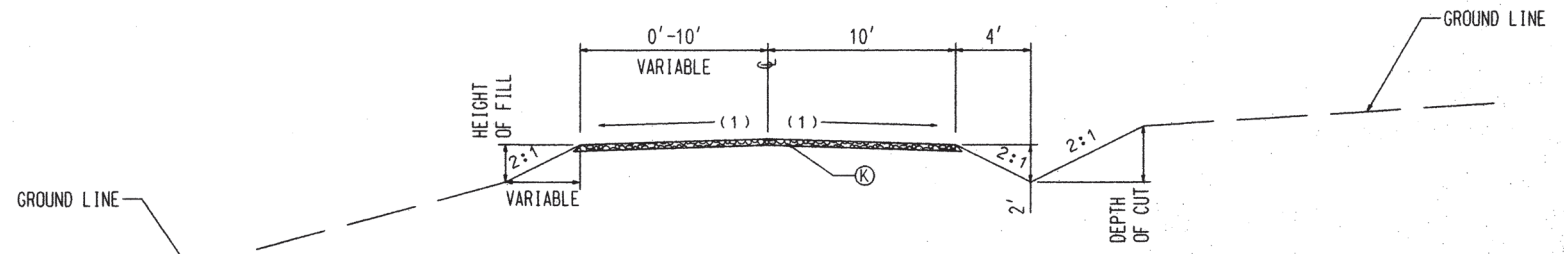
COLMILLING AND RESURFACING SECTION EXISTING ROUTE 59 STA. 1590+48.00 TO STA. 1592+23.00



CUT SECTION IN EXISTING CURBED SECTION *COLDMILLING AND RESURFACING IN EXISTING CURBED SECTION EXISTING ROUTE 59 STA. 1495+60.00 TO STA. 1499+00.00 *STA. 1497+25.00 TO STA. 1499+00.00



CO. RD. 369 STA. 3+97.91 TO STA. 9+80.13

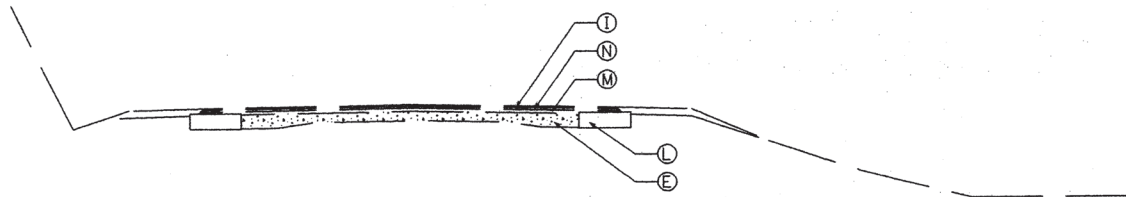


EMERGENCY BYPASS

- E 6" T
- F 8" x
- G 2" x
- H 1 1/4"
- I 1" x
- J TYPE
- L 10"
- M 2" T
- N 1 1/4"

K 4" GRA

TYF

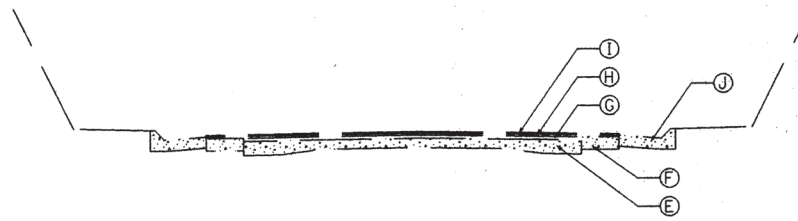


- Ⓔ 6" TO 9" x 18"
- Ⓕ 10" x 2'-9" T
- Ⓜ 2" TYPE B ASF
- Ⓝ 1 1/4" TYPE C AS
- Ⓘ 1" x 22' LEVE

SECTION ON TANGENT

EXISTING ROUTE 59

STA. 1501+72.00 TO STA. EQ. 1517+31.82 BK.=
 STA. 1517+34.14 AHD. TO STA. 1545+67.00
 STA. 1557+01.00 TO STA. 1566+75.00
 STA. 1579+66.00 TO STA. 1595+00.00



- Ⓔ 6" TO
- Ⓕ 8" x
- Ⓜ 2" x
- Ⓝ 1 1/4" x
- Ⓘ 1" x
- Ⓝ TYPE

SECTION ON TANGENT

EXISTING ROUTE 59

STA. 1494+00.00 TO STA. 1501+72.00
 STA. 1545+67.00 TO STA. 1557+01.00
 STA. 1566+75.00 TO STA. 1579+66.00

DESCRIPTION	UNIT	QUANTITY
SO607		
SURVEYING	LS	1
GRUBBING	LS	23
RIDGE	EA	1
IMPROVEMENTS	LS	1
THERMAL SYSTEM INSULATION ACM (FRIABLE)	LF	32
FLOOR SHEETING ACM ON WOOD (FRIABLE)	SOFT	196
LAND REMOVAL OF BUILDINGS - PARCEL NO. (SO606)	LS	1
LAND REMOVAL OF BUILDINGS - PARCEL NO. (SO606)	LS	1
LAND REMOVAL OF BUILDINGS - PARCEL NO. (SO606)	LS	1
EROSION CONTROL	CUYD	769538
EMBANKMENT	CUYD	471897
CHANNEL CUT	STA	62
STABILIZATION	STYD	1632132
EROSION CONTROL	CUYD	509
SEEDING CLASS 2	STA	17
GRAVITY DITCH	100F	26
SEWAGE GATE (BITUMINOUS BASE) PG64-22	TONS	68
SEWER BITUMINOUS BASE MIXTURE (4 IN. THICK)	SQYD	605.3
SEWAGE GATE BITUMINOUS BASE MIXTURE (4 IN. THICK)	SQYD	11507.6
SEWER (BITUMINOUS BASE) PG 64-22	TONS	3.5
SEWAGE GATE FOR BASE (4 IN. THICK)	SQYD	44553
SEWER CRUSHED STONE (B)	TONS	1929
SEWER (BITUMINOUS PAVEMENT) PG 64-22 (BP-1 MIX)	TONS	9.3
SEWER BITUMINOUS PAVT. MIX PG64-22 (.75 IN. THICK)	SOYD	641.4
SEWAGE GATE BITUMINOUS PAVEMENT MIXTURE PG64-22 (.75 IN. THICK)	SQYD	11471.6
SEWAGE GATE (BITUMINOUS PAVEMENT) PG64-22(BP-1 MIX)	TONS	165
	GAL	40
SEWER PAVEMENT (8 IN. NON-REINFORCED, 15 FT. JOINTS)	SQYD	28395.4
SEWER TYPE A	LF	80
SEWER TYPE A	LF	27
TYPE 2 ROCK DITCH LINER	CUYD	3136
TYPE 3 ROCK DITCH LINER	CUYD	2848
TYPE 4 ROCK DITCH LINER	CUYD	1091
TYPE 2 ROCK DITCH LINER	CUYD	3136
TYPE 3 ROCK DITCH LINER	CUYD	2484
TYPE 4 ROCK DITCH LINER	CUYD	1091
TRIAL FOR ROCK DITCH LINER	CUYD	1599
	CUYD	59
TYPE 2 ROCK BLANKET	CUYD	1119
TYPE 2 ROCK BLANKET	CUYD	1119
TRAFFIC SIGNS	SOFT	716
TRAFICABLE BARRICADE	EA	6

ITEM	DESCRIPTION	UNIT	QUANTITY
616-11.32	INSTALLING 'SHOW ME PROGRESS' SIGN ASSEMBLY	EA	2
618-10.00	MOBILIZATION	LS	1
620-99.17	MISC.	100F	12.3
	4 IN. INTER. YELLOW EPOXY MARKING PAINT		
620-99.17	MISC.	100F	190.3
	4 IN. SOLID WHITE EPOXY MARKING PAINT		
620-99.17	MISC.	100F	141.1
	4 IN. SOLID YELLOW EPOXY MARKING PAINT		
622-10.01	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)	SQYD	856
622-10.03	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (GREATER THAN 3 IN. THICK)	SQYD	22356
626-10.00	BITUMINOUS RUMBLE STRIP	100F	176.7
703-40.41	CLASS B-1 CONCRETE (CULVERTS)	CUYD	259.8
706-10.30	REINFORCING STEEL (CULVERTS)	LB	44300
725-03.18	18 IN. PIPE CULVERT GROUP B	LF	170
725-03.21	21 IN. PIPE CULVERT GROUP B	LF	210
725-03.24	24 IN. PIPE CULVERT GROUP B	LF	204
725-03.30	30 IN. PIPE CULVERT GROUP B	LF	36
725-03.36	36 IN. PIPE CULVERT GROUP B	LF	116
725-03.42	42 IN. PIPE CULVERT GROUP B	LF	366
725-03.60	60 IN. PIPE CULVERT GROUP B	LF	146
726-13.54	54 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LF	180
726-14.36	36 IN. CLASS IV REINFORCED CONCRETE PIPE CULVERT	LF	68
732-06.36	36 IN. PRECAST CONCRETE FLARED END SECTION	EA	1
732-06.54	54 IN. PRECAST CONCRETE FLARED END SECTION	EA	2
802-30.00	TYPE 3 MULCH	ACRE	68.2
802-99.19	MISC.	ACRE	1.2
	RIPARIAN TYPE I MULCH		
803-10.00	SODDING	SOYD	4109
805-10.00	SEEDING	ACRE	7.4
805-20.00	NATIVE PLANT SEEDING	ACRE	60.7
805-99.19	MISC.	ACRE	1.2
	RIPARIAN SEEDING		
806-10.11	SLOPE DRAINS	LF	32
806-10.15	SEDIMENT BASIN	CUYD	4207
806-10.16	SEDIMENT REMOVAL	CUYD	690
806-10.17	TEMPORARY SEEDING AND MULCHING	ACRE	17
806-10.19	SILT FENCE	LF	6316
806-10.21	TYPE I DITCH CHECK	EA	547
808-99.02	MISC.	EA	129
	RIPARIAN TREES		
	* BRIDGE - A6360		
202-10.20	REMOVAL OF BRIDGES	LS	1
206-30.00	CLASS 3 EXCAVATION	CUYD	1180
206-47.00	GRANULAR BACKFILL (CULVERTS-BRIDGE)	CUYD	410
703-40.40	CLASS B-1 CONCRETE (CULVERTS-BRIDGE)	CUYD	1162.8
706-10.20	REINFORCING STEEL (CULVERTS-BRIDGE)	LB	164050
	* BRIDGE - A6359		
202-10.20	REMOVAL OF BRIDGES	LS	1

EARTHWORK							
STATION	LOC.	CLASS A EXC. CU. YD.	COMP. EMBANK. CU. YD.	EXCESS EXC. CU. YD.	OVERHAUL STA. YD.	REMARKS	
1536+03.53	ROUTE 59	262575	195111		327937	INCLUDES EARTHWORK FOR MILL CREEK IMPROVEMENT	
1542+28.92	ROUTE 59	28669	21305				
1546+10.61	ROUTE 59	10572	7855				
1557+03.13	ROUTE 59	50844	37781				
1573+29.73	ROUTE 59	52513	39020			INCLUDES EARTHWORK FOR ROCK CREEK TRIBUTARY AND ROCK CREEK CHANNEL IMPROVEMENTS	
1581+00.00	ROUTE 59	116595	281	116217			
9+80.13	CO. RD. 369	14093	1035	12700			
1507+54.17	ROUTE 59	15431	11467				
1509+50.00	ROUTE 59	0	2679		211969	OBTAIN 3605 FROM BAL. STA. 1580+50 TO STA. 1587+97.43	
1587+97.43	ROUTE 59	10565	5170			USE 3605 IN BAL. STA. 1507+54.17 TO STA. 1509+50	
1590+65.66	ROUTE 59	4670	30	4630			
1578+50.08	ROUTE 59	192798	143263		1092226	INCLUDES EARTHWORK FOR DITCH AT 1541+39.24 RT. (SEE X-SECT. SHTS. 110 TO 114)	
1593+00.00	ROUTE 59	9289	6900				
TOTALS		768614	471897	133547	1632132		
ROUNDING		924					
PAY TOTALS		769538	471897	133547	1632132		

COMPA	
STATION	STAT
1499+00.00	1506+
1509+28.38	1509+
1519+24.95	1538+
1539+08.39	1539+
1544+28.75	1551+
1552+40.29	1552+
1556+16.81	1557+
1566+38.65	1580+
1583+70.27	1590+
3+97.91	4+
4+81.86	4+
5+40.65	9+

LINEAR GRADING						
LOC.	LINEAR GRADING CLASS 2 STA.	CLASS A EXC. CU. YD.	COMP. EMBANK. CU. YD.	INTER. DITCH 100 FT.	REMARKS	
ROUTE 59 LT				0.2	4' F.B.D.	
ROUTE 59 LT.				4.2	4' F.B.D.	
ROUTE 59 LT.				0.2	8' F.B.D.	
ROUTE 59 LT.				4.5	8' F.B.D. WITH LEVEE	
ROUTE 59 LT.				1.3	8' F.B.D.	
ROUTE 59 LT.				3.5	4' F.B.D.	
ROUTE 59 LT.				5.5	4' F.B.D.	
ROUTE 59 RT.	7.09	2301.0	60.5		EMERGENCY BYPASS	
ROUTE 59 RT.				2.1	4' F.B.D.	
ROUTE 50 RT.				0.3	4' F.B.D.	
ROUTE 59 RT.				3.6	4' F.B.D.	
ROUTE 59 RT.	7.30	1908.4	63.7		EMERGENCY BYPASS	
ROUTE 59 RT.	2.58	356.5	25.0		EMERGENCY BYPASS	
DRWY. 1512+02 RT.				0.5	8' F.B.D.	
TOTALS	16.97	4565.9	149.2	25.9		
PAY TOTALS	17.00			26.0		

R/W MARKERS
CONSTRUCTED BY OTHERS
56 MARKERS

CLEARING AND GRUB
LUMP SUM 1

MOBILIZATION
LUMP SUM 1

CONSTRUCTION SURVEY
LUMP SUM 1

REMOVAL OF IMPROVEMENTS

STATION	LOC.	DESCRIPTION	REMARKS
17+31.82	CL	22' X 1831.82' PCCP	
190+48.00	CL	22' X 7313.86' PCCP	STA. EQ. 1517+31.82 BK. = STA. 1517+34.14 AHD.
01+90.00	12' LT.	289' TYPE A CONCRETE CURB & GUTTER	
01+82.00	12' RT.	284' TYPE A CONCRETE CURB & GUTTER	
04+22.00	42' RT.	18" X 30' C.M.P.	DRIVEWAY
11+12.00	164' RT.	65' CONCRETE GUTTER	
12+02.00	146' RT.	24" X 46' GROUP B PIPE	STAGE 3
13+27.00	149' RT.	16' X 16' BILLBOARD SIGN	"COUNTRY CORNER ONE STOP"
13+83.00	222' RT.	24" X 19' C.M.P.	DRIVEWAY
16+56.00	249' RT.	170' CONCRETE GUTTER WITH OUTLET	
16+11.00	250' RT.	50' CONCRETE SURFACE DRAIN BASIN	
16+22.00	211' RT.	16' TYPE A GUARDRAIL WITH 2 END SECTIONS	
16+30.00	216' RT.	50' CONCRETE SURFACE DRAIN BASIN	
19+00.00	233' RT.	24" X 68' GROUP B PIPE	STAGE 3
17+15.00	178' RT.	5' X 20' CONCRETE BLOCK END BENT	
17+41.00	259' RT.	60' CONCRETE SURFACE DRAIN BASIN	
17+46.00	237' RT.	60' CONCRETE SURFACE DRAIN BASIN	
17+56.00	235' RT.	16' TYPE A GUARDRAIL WITH 2 END SECTIONS	
34+20.00	120' RT.	3' X 42' SIDEWALK	
34+29.00	133' RT.	2' X 22' SIDEWALK	
38+65.00	231' RT.	18" X 37' C.M.P.	DRIVEWAY
39+17.00	227' RT.	21" X 44' GROUP B PIPE	STAGE 3
39+82.00	266' RT.	18" X 30' C.M.P.	DRIVEWAY
42+22.00	236' RT.	5' X 3' X 73' BROKEN BACK R.C.B.	
46+44.00	4' RT.	WELL	PARCEL 7
47+74.00	194' RT.	387' TYPE A CONCRETE CURB & GUTTER	
47+45.00	225' RT.	407' TYPE A CONCRETE CURB & GUTTER	
47+50.00	39' RT.	18" X 38' GROUP B PIPE	STAGE 3
47+65.00	50' RT.	WELL	PARCEL 7
58+15.00	305' RT.	1057' TYPE A CONCRETE CURB & GUTTER	
55+49.00	233' RT.	768' TYPE A CONCRETE CURB & GUTTER	
51+83.00	32' RT.	PUMP PIT	PARCEL 7
59+10.00	404' RT.	18" X 58' C.M.P.	DRIVEWAY
59+68.00	238' RT.	2' X 75' SIDEWALK	
60+13.00	334' RT.	18" X 25' C.M.P.	DRIVEWAY
60+08.00	86' RT.	21" X 66' GROUP B PIPE	STAGE 3
62+24.00	227' RT.	WELL	PARCEL 9
62+26.00	279' RT.	60' CONCRETE SURFACE DRAIN BASIN WITH OUTLET	
62+39.00	309' RT.	60' CONCRETE SURFACE DRAIN BASIN	
63+57.00	236' RT.	60' CONCRETE SURFACE DRAIN BASIN	
63+69.00	267' RT.	60' CONCRETE SURFACE DRAIN BASIN	
68+15.00	112' RT.	120' CONCRETE GUTTER	
66+94.00	144' RT.	5' X 3' X 51' R.C.B.	
68+73.00	140' RT.	155' TYPE A CONCRETE CURB & GUTTER	
68+35.00	104' RT.	18" X 30' C.M.P.	DRIVEWAY
80+49.00	120' RT.	1189' TYPE A CONCRETE CURB & GUTTER	
80+54.00	143' RT.	1134' TYPE A CONCRETE CURB & GUTTER	
79+10.00	203' RT.	19' CONCRETE STEPS	WIDTH VARIES FROM 4' TO 6.5'
80+96.00	155' RT.	18" X 40' C.M.P.	DRIVEWAY
81+39.00	143' RT.	18" X 30' C.M.P.	DRIVEWAY
82+50.00	76' RT.	3' X 2' X 65' BROKEN BACK R.C.B.	
LUMP SUM 1			

DEMOLITION AND REMOVAL OF BUILDINGS -

PLAN SHEET NO.	STATION	LOC.	DESCRIPTION	SIZE
5	1533+75	184' RT.	CISTERN	17'
5	1533+82	213' RT.	SHED	18'
5	1533+85	237' RT.	GREEN HOUSE REMNANT	26'
5	1534+04	156' RT.	2 STORY HOUSE WITH BASEMENT	44'
5	1534+14	60' RT.	2 CAR GARAGE REMNANT	24'
5	1534+59	33' RT.	BARN REMNANT	58'
LUMP SUM 1				

DEMOLITION AND REMOVAL OF BUILDINGS

PLAN SHEET NO.	STATION	LOC.	DESCRIPTION	SIZE
5, 17	1546+41	42' LT.	SHED REMNANT	
5, 17	1546+72	CL	BARN	
5, 17	1546+72	110' LT.	BARN	
5, 17	1547+01	CL	SHED	
5	1548+78	112' RT.	SHED	
5, 17	1546+70	LT. & RT.	VARIOUS CONCRETE SLABS ON GRADE	
LUMP SUM 1				

DEMOLITION AND REMOVAL OF BUILDINGS - PAR

PLAN SHEET NO.	STATION	LOC.	DESCRIPTION	SIZE
6	1559+50	229' RT.	SHED	10' X
6	1559+55	205' RT.	SHED	8' X
6	1559+65	264' RT.	1 STORY HOUSE WITH CELLAR	36' X
6	1560+23	214' RT.	GARAGE	20' X
LUMP SUM 1				

REMOVAL OF ACM (FRIABLE

PLAN SHEET NO.	STATION	LOC.	PARCEL NO.	THERMAL SYSTEM INSULATION LF	FLOOR SHEETING ON WOOD SQ.FT.
5	1534+04	156' RT.	4	12.0	
5	1534+04	156' RT.	4	20.0	
5	1534+04	156' RT.	4		196.0
TOTALS				32.0	196.0
PAY TOTALS				32.0	196.0

REMOVAL OF BRIDGE

PLAN SHEET NO.	STATION	LOC.	DESCRIPTION	SIZE
3, 12	1513+83	154' LT.	STEEL PONY TRUSS WITH WOOD DECK	CO
1.0 EA				

PAVEMENT QUANTITIES

STATION	LOC.	GRAVEL A OR CRUSHED STONE B 4 IN. THICK TONS	TACK COAT GAL.	ASPHALT BINDER BITUMINOUS PAVEMENT PG 64-22 BP-1 MIX 1 3/4 IN. THICK TONS	MINERAL AGGREGATE BITUMINOUS PAVEMENT PG 64-22 BP-1 MIX 1 3/4 IN. THICK TONS	TYPE 5 AGGREGATE FOR BASE 4 IN. THICK SQ.YD.	CONCRETE PAVEMENT 8 IN. NON-REINFORCED 15 FT. JOINTS SQ.YD.	REMARKS
9+00.00	ROUTE 59		21.0	2.18	38.9			
0+80.00	ROUTE 59					560.0	500.00	WIDTH TRANSITION
3+85.66	ROUTE 59					30330.6	27395.39	
0+65.66	ROUTE 59					560.0	500.00	WIDTH TRANSITION
2+23.00	ROUTE 59		21.0	2.18	38.9			STA. EQ. 1590+65.66 BK. = STA.1590+48.00 AH
4+00.00	ROUTE 59 RT.	219.7						EMERGENCY BYPASS
0+65.66	ROUTE 59 RT.	242.4						EMERGENCY BYPASS
3+00.00	ROUTE 59 RT.	68.0						EMERGENCY BYPASS
TOTALS		530.1	42.0	4.36	77.8	31450.6	28395.39	
PAY TOTALS		530.0	40.0	4.40	78.0	31451.0	28395.40	

SHOULDER QUANTITIES

STATION	LOC.	TYPE 5 AGGREGATE FOR BASE 4 IN. THICK SQ.YD.	ASPHALT BINDER BITUMINOUS BASE PG 64-22 4 IN. THICK SQ.YD.	MINERAL AGGREGATE BITUMINOUS BASE PG 64-22 4 IN. THICK SQ.YD.	ASPHALT BINDER BITUMINOUS PAVEMENT PG 64-22 BP-1 MIX 1 3/4 IN. THICK SQ.YD.	MINERAL AGGREGATE BITUMINOUS PAVEMENT PG 64-22 BP-1 MIX 1 3/4 IN. THICK SQ.YD.	REMARKS
9+13.92	ROUTE 59 LT. & RT.	1.8	0.09	1.69	0.09	1.68	
0+80.00	ROUTE 59 LT. & RT.	158.3	8.51	161.81	9.02	161.31	WIDTH TRANSITION
3+85.66	ROUTE 59 LT. & RT.	11746.8	586.75	11154.13	621.72	11119.16	
0+65.66	ROUTE 59 LT. & RT.	200.1	9.99	190.01	10.59	189.41	WIDTH TRANSITION
TOTALS		12107.0	605.34	11507.64	641.42	11471.56	
PAY TOTALS		12107.0	605.30	11507.60	641.40	11471.60	

DRIVEWAY AND COUNTY ROAD PAVEMENT QUANTITIES

LOC.	TYPE	WIDTH FT.	GRAVEL A OR CRUSHED STONE B 4 IN. THICK TONS	TYPE 5 AGGREGATE FOR BASE 4 IN. THICK SQ.YD.	ASPHALT BINDER BITUMINOUS BASE PG 64-22 4 IN. THICK TONS	MINERAL AGGREGATE BITUMINOUS BASE PG 64-22 4 IN. THICK TONS	ASPHALT BINDER BITUMINOUS PAVEMENT PG 64-22 BP-1 MIX 1 3/4 IN. THICK TONS	MINERAL AGGREGATE BITUMINOUS PAVEMENT PG 64-22 BP-1 MIX 1 3/4 IN. THICK TONS	REMARKS
9 LT.	I	20	30.6	5.0	0.05	1.0	0.02	0.4	STAGE 2
9 LT.	I	20	67.1	5.0	0.05	1.0	0.02	0.4	STAGE 1
9 LT.	II	24	229.7	74.2	0.80	15.3	0.36	6.5	STAGE 1 - CO. RD.
9 LT.	I	20	32.6	5.0	0.05	1.0	0.02	0.4	STAGE 1
9 LT.	I	20	76.6	5.0	0.05	1.0	0.02	0.4	STAGE 1
9 LT.	I	20	61.3	5.0	0.05	1.0	0.02	0.4	STAGE 1
9 LT.	I	20	22.1	5.0	0.05	1.0	0.02	0.4	STAGE 1
9 RT.	I	20	35.6						STAGE 3
9 RT.	I	20	60.3	4.9	0.05	1.0	0.02	0.4	STAGE 1 - TEMP. DR
9 RT.	I	20	43.4						STAGE 3
9 RT.	I	20	94.3	5.0	0.05	1.0	0.02	0.4	STAGE 1 - TEMP. DR
9 RT.	I	20	90.7	5.0	0.05	1.0	0.02	0.4	STAGE 3
9 RT.	I	20	78.6						STAGE 1 - TEMP. DR
9 RT.	I	20	50.5						STAGE 1 - TEMP. DR
9 RT.	I	20	140.6	5.0	0.05	1.0	0.02	0.4	STAGE 3
9 RT.	I	20	102.1						STAGE 1 - TEMP. DR
9 RT.	MOD. I	24	51.5	196.7	2.14	40.6	0.97	17.4	STAGE 3
9 RT.	I	20	73.9	5.0	0.05	1.0	0.02	0.4	STAGE 3
9 RT.	I	20		669.2	0.05	1.0	3.30	59.1	STAGE 3
369 RT.	I	20	20.5						STAGE 1
369 RT.	I	20	24.9						STAGE 1
369 RT.	I	20	42.4						STAGE 3

PAVEMENT MARKING MATERIAL

LOC.	INTERMITTENT YELLOW EPOXY MARKING PAINT 4 IN. 100 FT.	SOLID YELLOW EPOXY MARKING PAINT 4 IN. 100 FT.	DOUBLE SOLID YELLOW EPOXY MARKING PAINT 4 IN. 100 FT.	SOLID WHITE EPOXY MARKING PAINT 4 IN. 100 FT.	REMARKS
ROUTE 59 CL			3.50		
ROUTE 59 CL			4.00		
ROUTE 59 CL	2.38	9.50			NO PASSING ZONE NORTH BOUND
ROUTE 59 CL			24.20		
ROUTE 59 CL	2.18	8.70			NO PASSING ZONE SOUTH BOUND
ROUTE 59 CL			30.60		
ROUTE 59 CL	3.78	15.10			NO PASSING ZONE NORTH BOUND
ROUTE 59 CL			10.60		
ROUTE 59 CL	3.98	15.90			NO PASSING ZONE SOUTH BOUND
ROUTE 59 CL			15.51		
ROUTE 59 CL			3.50		STA. EQ. 1590+65.66 BK. = STA. 1590+48 AHD.
ROUTE 59 LT.				1.75	
ROUTE 59 LT.				5.21	
ROUTE 59 LT.				21.26	
ROUTE 59 LT.				18.03	
ROUTE 59 LT.				15.61	
ROUTE 59 LT.				17.08	
ROUTE 59 LT.				1.75	
ROUTE 59 LT.				9.81	
ROUTE 59 LT.				1.75	
ROUTE 59 LT.				1.22	
ROUTE 59 LT.				1.75	STA. EQ. 1590+65.66 BK. = STA. 1590+48 AHD.
ROUTE 59 RT.				1.75	
ROUTE 59 RT.				5.21	
ROUTE 59 RT.				21.08	
ROUTE 59 RT.				18.03	
ROUTE 59 RT.				15.59	
ROUTE 59 RT.				17.08	
ROUTE 59 RT.				1.75	
ROUTE 59 RT.				9.91	
ROUTE 59 RT.				1.75	
ROUTE 59 RT.				1.22	
ROUTE 59 RT.				1.75	STA. EQ. 1590+65.66 BK. = STA. 1590+48 AHD.
TOTALS	12.32	49.20	91.91	190.34	
PAY TOTALS	12.30	49.20	91.90	190.30	

CURB AND GUTT

STATION	STATION	LOC.	TY CURB GU
1499+00.00	1499+13.92	ROUTE 59 LT. & RT.	
1499+13.92	1499+50.00	ROUTE 59 LT. & RT.	
TOTALS			
PAY TOTALS			

BITUMINOUS RUMBLE STRIP

STATION	STATION	LOC.	BITUMINOUS RUMBLE STRIP 100 FT
1499+13.92	1503+82.00	ROUTE 59 LT.	4.68
1504+18.00	1511+84.05	ROUTE 59 LT.	7.66
1512+19.95	1518+69.27	ROUTE 59 LT.	6.49
1519+30.73	1538+99.00	ROUTE 59 LT.	19.68
1539+35.00	1547+32.01	ROUTE 59 LT.	7.97
1547+67.99	1559+90.00	ROUTE 59 LT.	12.22
1560+26.00	1568+19.00	ROUTE 59 LT.	7.93
1568+55.00	1590+65.66	ROUTE 59 LT.	22.11
1499+13.92	1511+83.94	ROUTE 59 RT.	12.70
1512+20.06	1518+81.94	ROUTE 59 RT.	6.62
1519+18.06	1538+99.00	ROUTE 59 RT.	19.81
1539+35.00	1558+81.99	ROUTE 59 RT.	19.47
1559+18.00	1565+77.02	ROUTE 59 RT.	6.59
1567+19.29	1570+32.00	ROUTE 59 RT.	3.13
1570+68.00	1581+32.07	ROUTE 59 RT.	10.64
1581+67.93	1590+65.66	ROUTE 59 RT.	8.98
TOTALS			176.68
PAY TOTALS			176.70

COLDMILLING QUANTITIES

LOC.	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING 1 3/4 IN. THICK SQ. YD.	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING 4 1/4 IN. THICK SQ. YD.	REMARKS
EXIST. ROUTE 59	427.8		
EXIST. ROUTE 59		4477.8	REMOVAL OF ENTIRE ASPHALT SURFACE
EXIST. ROUTE 59		17878.3	REMOVAL OF ENTIRE ASPHALT SURFACE*
EXIST. ROUTE 59	427.8		
TOTALS	855.6	22356.1	* STA. EQ. 1517+31.82 BK. = STA. 1517+34.14 AHD.
PAY TOTALS	856.0	22356.0	

REINFORCED CONCRETE PIPE

SKEW	36" CLASS IV RCP L.F.	54" CLASS III RCP L.F.	36" PRECAST CONCRETE F.E.S. EA	54" PRECAST CONCRETE F.E.S. EA	CLASS 3 EXC. CU.YD.	ROCK LINING CU.YD.	REMARKS
7° RA	68	180	1	2	66.4	59.4	SEE SHT. 33
TOTALS	68	180	1	2	86.6	59.4	SEE SHT. 34
PAY TOTALS	68	180	1	2	87.0	59.0	

REINFORCED CONCRETE BOX

SKEW	SIZE	LENGTH	DESIGN FILL HEIGHT	CLASS B-1 CONCRETE (CULVERTS) CU.YD.	REINFORCING STEEL (CULVERTS) LBS.	CLASS 3 EXC. CU.YD.	FURNISHING TYPE 2 ROCK BLANKET CU.YD.	PLACING TYPE 2 ROCK BLANKET CU.YD.	REMARKS
45° RA	DBL. 12' X 12'						804.8	804.8	BRIDGE #A6360, SEE SHT. 12
15° RA	12' X 11'	131'	9'10"	259.80	44302	405.8	75.7	75.7	SEE SHT. 34
NO SKEW	DBL. 12' X 12'						238.7	238.7	BRIDGE #A6359, SEE SHT. 13
TOTALS				259.80	44302	405.8	1119.2	1119.2	
PAY TOTALS				259.80	44300	406.0	1119.0	1119.0	

DRIVEWAY CULVERTS

18" GROUP B PIPE L.F.	21" GROUP B PIPE L.F.	24" GROUP B PIPE L.F.	30" GROUP B PIPE L.F.	36" GROUP B PIPE L.F.	42" GROUP B PIPE L.F.	60" GROUP B PIPE L.F.	CLASS 3 EXC. CU.YD.	REMARKS
		46	36				15.5	DRIVEWAY STA. 2+90, SEE SHT. 35
				116	62			
		46			64			TEMP. PIPE (STAGE 1 & 2)
		44						
		68						TEMP. PIPE (STAGE 1 & 2)
	44							TEMP. PIPE (STAGE 1 & 2)
	40							
38								TEMP. PIPE (STAGE 1 & 2)
	60							
					80			
								TEMP. PIPE (STAGE 1 & 2)
						146		2 PIPES (70' & 76')
					50			
					54			
					56			
40								COUNTY ROAD 369
46								COUNTY ROAD 369
46								DRIVEWAY AT STA. 1581+50
170	210	204	36	116	366	146	15.5	
170	210	204	36	116	366	146	16.0	

SEDIMENT BASINS						
STATION	LOC.	LENGTH FT.	WIDTH FT.	DEPTH FT.	VOLUME CU. YD.	SEDIMENT REMOVAL CU. YD.
1518+00	ROUTE 59 RT.	100.0	12	2	88.89	10
1562+00	ROUTE 59 LT.	150.0	16	6	533.33	10
1567+00	ROUTE 59 LT.	200.0	20	6	888.89	10
1562+50	ROUTE 59 RT.	150.0	16	6	533.33	10
1582+50	ROUTE 59 LT.	200.0	20	6	888.89	10
1521+00	ROUTE 59 RT.	100.0	12	2	88.89	10
1542+19	ROUTE 59 RT.	100.0	20	4	296.30	10
1566+00	ROUTE 59 RT.	200.0	20	6	888.89	10
TOTAL					4207.41	80
PAY TOTALS					4207.00	80

SILT FENCE					
STATION	STATION	LOC.	SILT FENCE FT.	SEDIMENT REMOVAL CU. YD.	REMARKS
STAGE 1					
1525+00	1533+50	ROUTE 59 RT.	1062.3	10.6	
1535+50	1538+50	ROUTE 59 RT.	419.5	4.2	
1540+00	1544+00	ROUTE 59 RT.	416.3	4.2	
1545+00	1547+00	ROUTE 59 RT.	250.1	2.5	
1548+00	1558+00	ROUTE 59 RT.	1120.0	11.2	
1574+50	1578+00	ROUTE 59 RT.	359.4	3.6	
STAGE 3					
1505+00	1510+00	ROUTE 59 RT.	475.3	4.8	
1527+00	1537+00	ROUTE 59 RT.	1026.7	10.3	
1542+50	1554+00	ROUTE 59 RT.	1186.0	11.9	
TOTALS			6315.6	63.3	
PAY TOTALS			6316.0	63.0	

TYPE I DITCH CHECKS			
LOC.	DITCH CHECKS EA	SEDIMENT REMOVAL CU. YD.	REMARKS
ROUTE 59 LT.	4	4	
ROUTE 59 LT.	14	14	
ROUTE 59 LT.	1	1	
ROUTE 59 LT.	19	19	
ROUTE 59 LT.	7	7	
ROUTE 59 LT.	7	7	
ROUTE 59 LT.	6	6	
ROUTE 59 LT.	7	7	
ROUTE 59 LT.	30	30	
ROUTE 59 LT.	35	35	
ROUTE 59 LT.	12	12	INTERCEPTOR DITCH
ROUTE 59 LT.	13	13	INTERCEPTOR DITCH
ROUTE 59 LT.	17	17	INTERCEPTOR DITCH
ROUTE 59 LT.	8	8	INTERCEPTOR DITCH
ROUTE 59 LT.	14	14	INTERCEPTOR DITCH
ROUTE 59 RT.	30	30	
ROUTE 59 RT.	6	6	INTERCEPTOR DITCH
ROUTE 59 RT.	4	4	
ROUTE 59 RT.	20	20	
ROUTE 59 RT.	3	3	INTERCEPTOR DITCH
ROUTE 59 RT.	6	6	
ROUTE 59 RT.	18	18	
ROUTE 59 RT.	17	17	
ROUTE 59 RT.	20	20	
ROUTE 59 RT.	22	22	INTERCEPTOR DITCH
ROUTE 59 LT.	29	29	
ROUTE 59 LT.	25	25	
ROUTE 59 RT.	15	15	
ROUTE 59 RT.	24	24	INTERCEPTOR DITCH
ROUTE 59 RT.	28	28	
ROUTE 59 RT.	8	8	
ROUTE 59 RT.	10	10	DITCH TO EXIST. CULVERT
ROUTE 59 RT.	11	11	
ROUTE 59 RT.	4	4	
ROUTE 59 RT.	40	40	
ROUTE 59 RT.	9	9	INTERCEPTOR DITCH
ROUTE 59 RT.	4	4	INTERCEPTOR DITCH

SEEDING AND MULCH						
STATION	STATION	LOC.	SEEDING ACRE	NATIVE PLANT SEEDING ACRE	TYPE 3 MULCH ACRE	REMARKS
1506+00.00	1581+00.00	ROUTE 59	2.98	12.76	15.74	STAGE 1
1495+60.00	1509+50.00	ROUTE 59	0.32	1.87	2.19	STAGE 2
1580+50.00	1590+65.66	ROUTE 59	0.37	1.09	1.46	STAGE 2
1497+00.00	1590+65.66	ROUTE 59	3.77	43.64	47.41	STAGE 3
1590+48.00	1593+00.00	ROUTE 59		0.20	0.20	STAGE 3
3+97.91	10+00.00	CO. RD. 369		1.15	1.15	STAGE 1
TOTALS			7.44	60.71	68.15	
PAY TOTALS			7.40	60.70	68.20	
TEMPORARY SEEDING AND MULCH				17.0 ACRE		

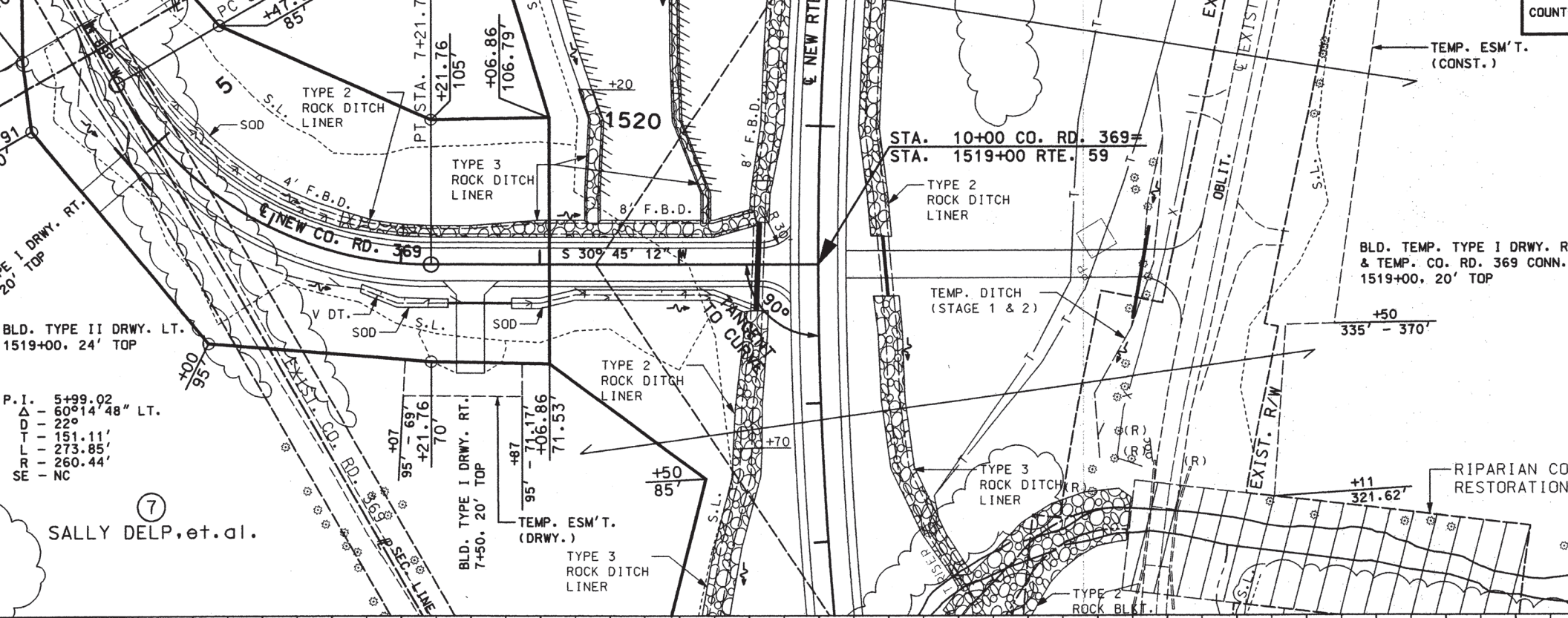
RIPARIAN C	
	RIPA TR E
TOTALS	1
PAY TOTALS	1

SODDING				
STATION	STATION	LOC.	SODDING SQ. YD.	REMARKS
1502+80.00	1503+81.81	ROUTE 59 LT.	155.1	STAGE 2, 8' F.B.D.
1504+26.12	1506+00.00	ROUTE 59 LT.	324.1	STAGE 2, 8' F.B.D.
1506+80.00	1509+50.00	ROUTE 59 LT.	448.0	STAGE 2, 8' F.B.D.
1509+50.00	1510+30.00	ROUTE 59 LT.	132.7	STAGE 1, 8' F.B.D.
1558+80.00	1559+73.76	ROUTE 59 LT.	140.3	STAGE 1, 8' F.B.D.
1582+70.00	1584+70.00	ROUTE 59 LT.	331.9	STAGE 2, 8' F.B.D.
1504+80.00	1509+80.00	ROUTE 59 RT.	829.7	STAGE 3, 8' F.B.D.
1526+70.00	1530+20.00	ROUTE 59 RT.	580.8	STAGE 3, 8' F.B.D.
1559+37.55	1561+00.00	ROUTE 59 RT.	243.0	STAGE 3, 8' F.B.D.
1579+70.00	1581+18.60	ROUTE 59 RT.	305.0	STAGE 3, 8' F.B.D.
1581+73.50	1582+70.00	ROUTE 59 RT.	147.6	STAGE 3, 8' F.B.D.
4+25.00	6+50.00	CO. RD. 369 LT.	274.1	STAGE 1, 4' F.B.D.
6+75.00	7+33.93	CO. RD. 369 RT.	45.1	STAGE 1, V-DITCH
7+79.71	9+53.89	CO. RD. 369 RT.	151.3	STAGE 1, V-DITCH
TOTALS			4108.7	

TEMPORARY PIPE SLOPE		
STATION	LOC.	SLOPE DRAINS FT.
1514+50	ROUTE 59 LT.	6.8
1518+50	ROUTE 59 LT.	2.5
1539+50	ROUTE 59 LT.	1.3
1544+00	ROUTE 59 LT.	2.4
1563+00	ROUTE 59 LT.	5.2
1566+00	ROUTE 59 LT.	2.5
1518+50	ROUTE 59 RT.	2.5
1539+50	ROUTE 59 RT.	2.0
1544+00	ROUTE 59 RT.	1.7
1563+00	ROUTE 59 RT.	4.4
1566+00	ROUTE 59 RT.	1.1
TOTALS		32.4
PAY TOTALS		32.0

ROCK DITCH LINER

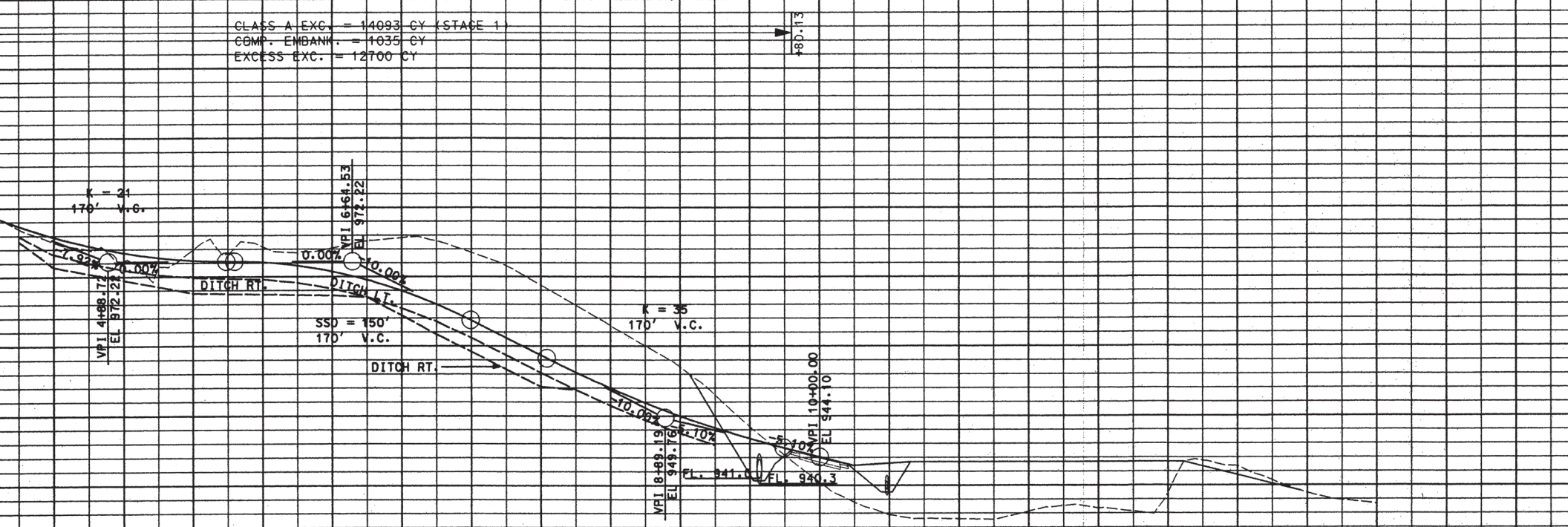
LOCATION	FURNISHING TYPE 2 ROCK DITCH LINER CU.YD.	PLACING TYPE 2 ROCK DITCH LINER CU.YD.	FURNISHING TYPE 3 ROCK DITCH LINER CU.YD.	PLACING TYPE 3 ROCK DITCH LINER CU.YD.	FURNISHING TYPE 4 ROCK DITCH LINER CU.YD.	PLACING TYPE 4 ROCK DITCH LINER CU.YD.	BEDDING MATERIAL FOR ROCK DITCH LINER CU.YD.	REMARKS
ROUTE 59 LT.			85.7	85.7			31.1	STAGE 2
ROUTE 59 LT.			112.0	112.0			40.7	STAGE 1
ROUTE 59 LT.			48.5	48.5			17.6	STAGE 1
ROUTE 59 LT.			338.8	338.8			123.2	STAGE 1
ROUTE 59 LT.	67.6	67.6						STAGE 1
ROUTE 59 LT.			26.8	26.8			9.7	STAGE 1
ROUTE 59 LT.	213.2	213.2						STAGE 1
ROUTE 59 LT.			149.3	149.3			54.3	STAGE 1
ROUTE 59 LT.	232.2	232.2						STAGE 1
ROUTE 59 LT.			39.5	39.5			14.3	STAGE 1
ROUTE 59 LT.			65.6	65.6			23.8	STAGE 1
ROUTE 59 LT.	182.1	182.1						STAGE 1
ROUTE 59 LT.			112.6	112.6			40.9	STAGE 1
ROUTE 59 LT.	613.9	613.9						STAGE 1
ROUTE 59 LT.	26.5	26.5						STAGE 2
ROUTE 59 LT.			166.0	166.0			60.3	STAGE 2
ROUTE 59 LT.			43.8	43.8			15.9	STAGE 1 - SHALE INTER. DT.
ROUTE 59 LT.	87.7	87.7						STAGE 1 - SHALE INTER. DT.
ROUTE 59 LT.			17.1	17.1			6.2	STAGE 1 - SHALE INTER. DT.
ROUTE 59 LT.	79.8	79.8						STAGE 1 - SHALE INTER. DT.
ROUTE 59 LT.			28.6	28.6			10.4	STAGE 1 - SHALE INTER. DT.
ROUTE 59 LT.	127.6	127.6						STAGE 1 - SHALE INTER. DT.
ROUTE 59 LT.			68.8	68.8			25.0	STAGE 1 - INTER. DT.
ROUTE 59 LT.			114.5	114.5			41.6	STAGE 1 - INTER. DT.
ROUTE 59 RT.			85.6	85.6			31.1	STAGE 3
ROUTE 59 RT.	100.7	100.7						STAGE 3
ROUTE 59 RT.	69.9	69.9						STAGE 3
ROUTE 59 RT.			189.2	189.2			68.8	STAGE 3
ROUTE 59 RT.			246.6	246.6			89.6	STAGE 3
ROUTE 59 RT.	414.4	414.4						STAGE 3
ROUTE 59 RT.			58.6	58.6			21.3	STAGE 3
ROUTE 59 RT.					138.6	138.6	55.4	STAGE 3
ROUTE 59 RT.	143.4	143.4						STAGE 3
ROUTE 59 RT.					177.7	177.7	71.0	STAGE 3
ROUTE 59 RT.	146.3	146.3						STAGE 3
ROUTE 59 RT.			83.0	83.0			30.1	STAGE 3
ROUTE 59 RT.			89.0	89.0			32.3	STAGE 3
ROUTE 59 RT.	455.8	455.8						STAGE 3
ROUTE 59 RT.	50.6	50.6						STAGE 3 - SHALE INTER. DT.
ROUTE 59 RT.			29.4	29.4			10.7	STAGE 3 - SHALE INTER. DT.
ROUTE 59 RT.	107.1	107.1						STAGE 3 - SHALE INTER. DT.
COUNTY ROAD 369 LT.	17.6	17.6						STAGE 1
COUNTY ROAD 369 LT.			197.3	197.3			71.7	STAGE 1
DRIVEWAY 1512+02 LT.			53.7	53.7			19.5	STAGE 1, SEE SHT. 15
DRIVEWAY 1512+02 LT.					49.3	49.3	19.7	STAGE 1, SEE SHT. 15
DRIVEWAY 1566+42 LT.					221.3	221.3	348.7	STAGE 3, SEE SHT. 22
DRIVEWAY 1570+50 LT.			34.2	34.2			12.4	STAGE 3, SEE SHT. 23
SIDE DT. STA. 1541+27 RT.					503.8	503.8	201.3	STAGE 3, SEE SHT. 14
TOTALS	3136.4	3136.4	2484.2	2484.2	1090.7	1090.7	1598.6	
PAY TOTALS	3136.0	3136.0	2484.0	2484.0	1091.0	1091.0	1599.0	



P.I. = 5+99.02
 Δ = 60°14'48" LT.
 D = 220'
 T = 151.11'
 R = 273.85'
 S.E. = 260.44'
 NC

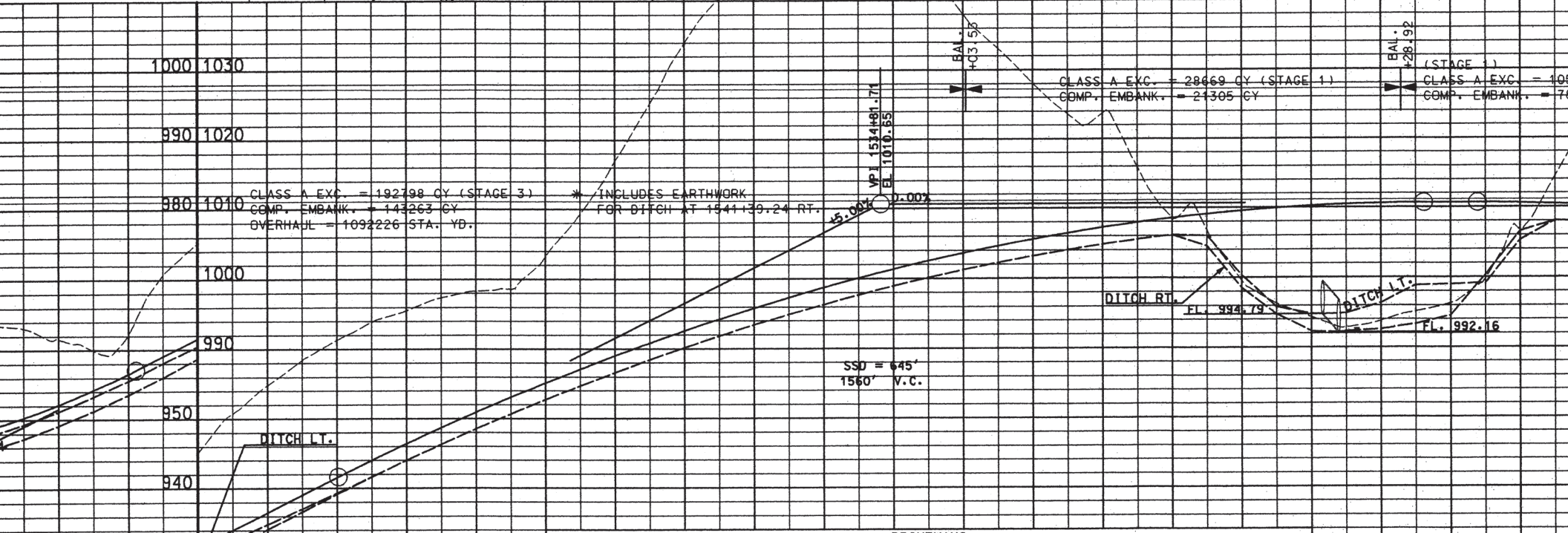
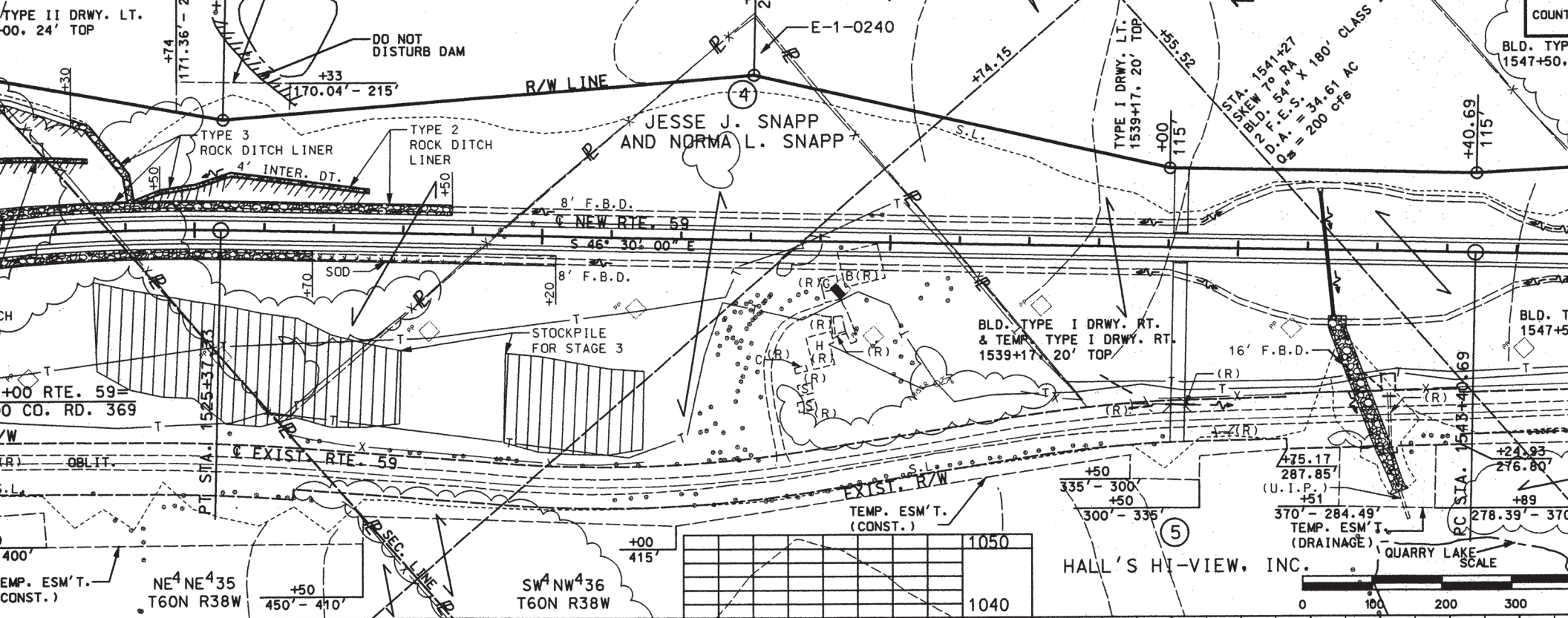
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 SALLY DELP, et. al.

CLASS A EXC. = 14093 CY (STAGE 1)
 COMP. EMBANK. = 1035 CY
 EXCESS EXC. = 12700 CY



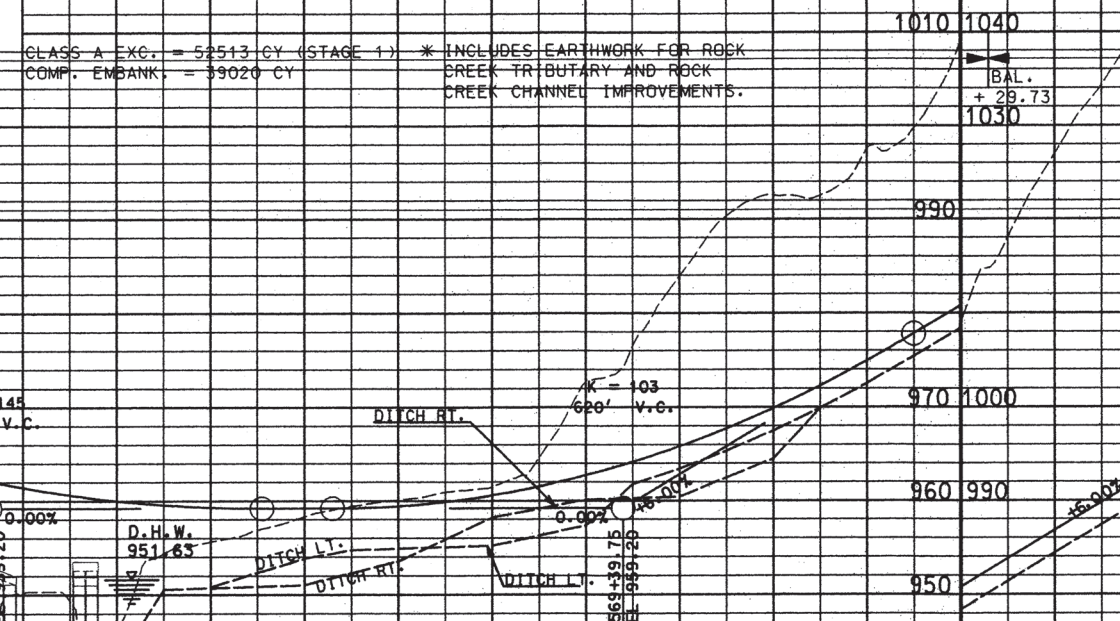
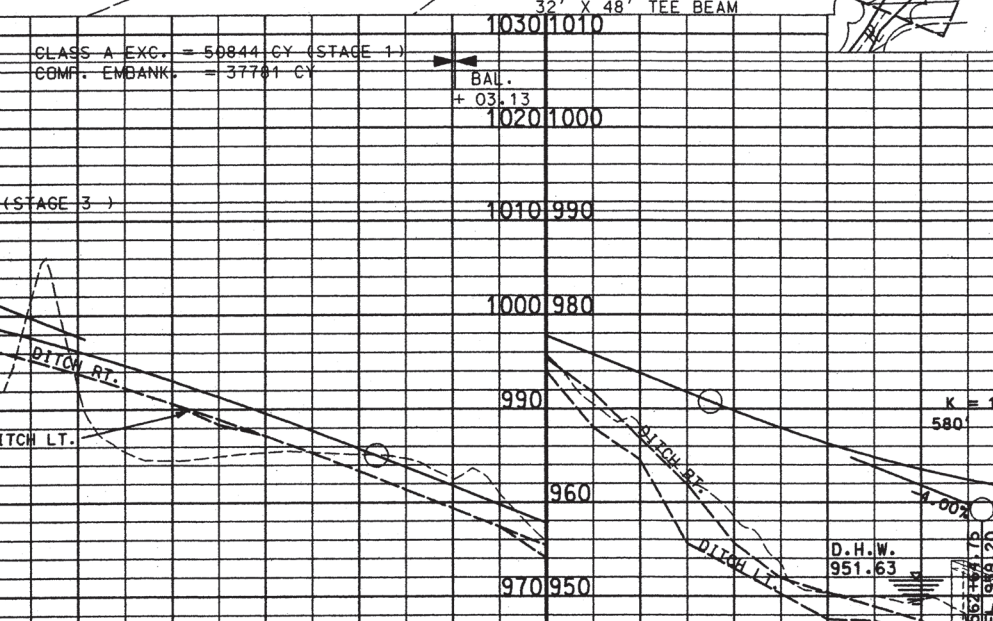
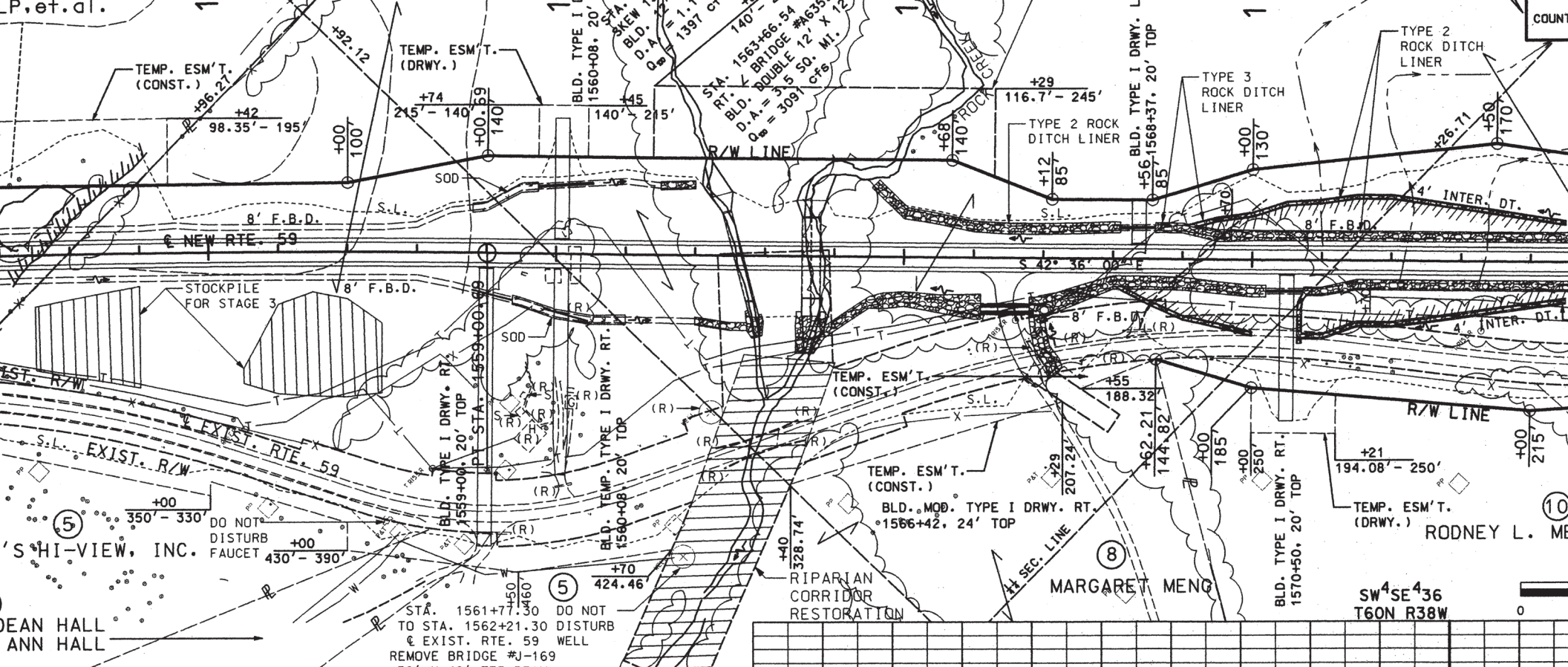
DRIVEWAYS				REMARKS
TYPE	GRADE	SURFACE	PIPE	
TYPE I	-3.12%	4" GRAVEL	18" GR. B	F.E.
TYPE I	+5.00%	4" GRAVEL	18" GR. B	F.E.
TYPE II	+10.00%	4" GRAVEL	42" GR. B	CO. RD. 369

BENCH MARK



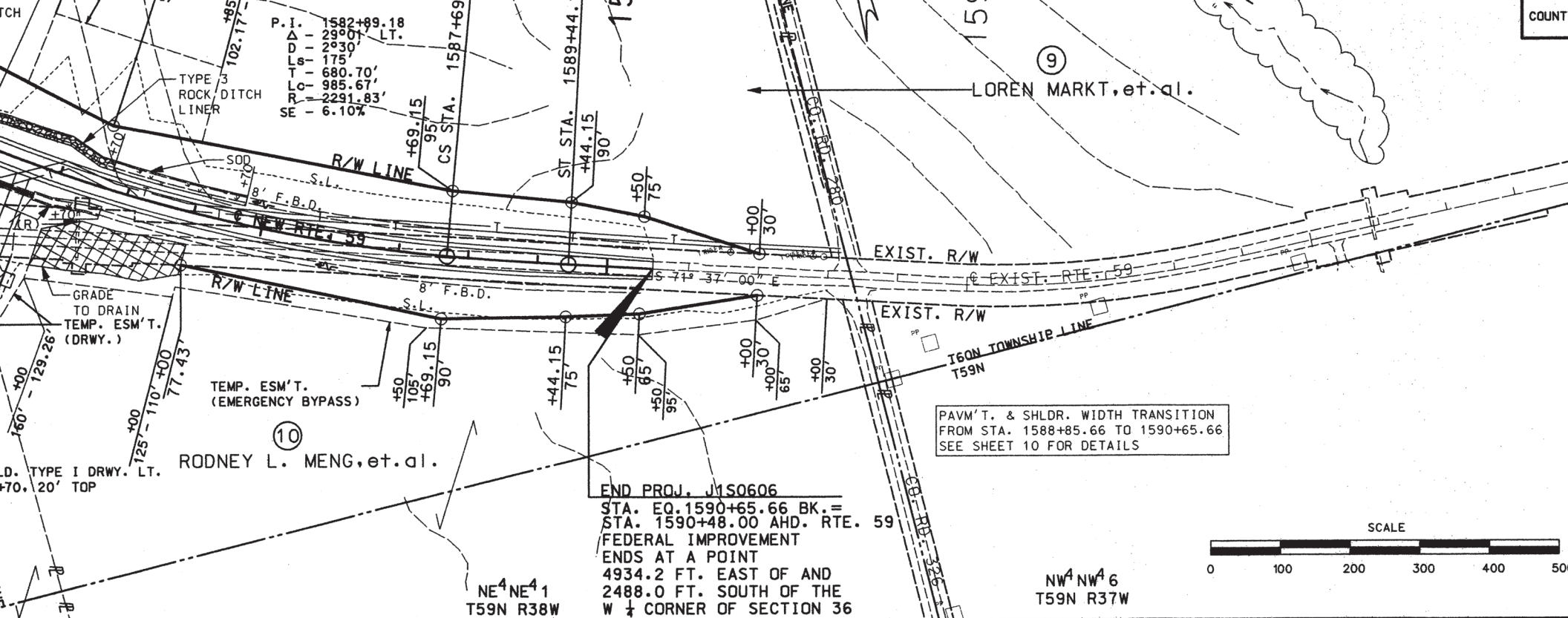
STATION	LOCATION	TYPE	GRADE	SURFACE	PIPE	REMARKS
1539+17	LT.	20' TYPE I	-2.00%	4" GRAVEL	NO PIPE	F.E.
1539+17	RT.	20' TYPE I	+5.00%	4" GRAVEL	NO PIPE	F.E.
1538+17	DT	20' TYPE I	-9.70%	4" GRAVEL	21" GR. B	TEMP. F.F. (STAGE 1 & 2)

BENCH MARK



DRIVEWAYS				REMARKS
TYPE	GRADE	SURFACE	PIPE	
TYPE I	- 8.53%	4" GRAVEL	21" GR. B	P.E.
TYPE I	-10.00%	4" GRAVEL	42" GR. B	F.E.
TYPE I	-15.00%	4" GRAVEL	21" GR. B	TEMP. F.E. (STAGE 1 & 2)

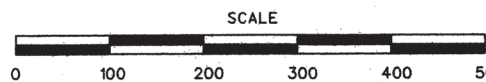
BENCH MARKS	
BM 1-97	"G" ON S.E. END LIP OF 275' x 21' STA 1563+39.75



P.I. = 1582+89.18
 Δ = 29°30' LT.
 D = 175'
 Ls = 680.70'
 Lc = 985.67'
 R = 2291.83'
 SE = 6.10%

END PROJ. J150606
 STA. EQ. 1590+65.66 BK. =
 STA. 1590+48.00 AHD. RTE. 59
 FEDERAL IMPROVEMENT
 ENDS AT A POINT
 4934.2 FT. EAST OF AND
 2488.0 FT. SOUTH OF THE
 W 1/4 CORNER OF SECTION 36

PAV'T. & SHLDR. WIDTH TRANSITION
 FROM STA. 1588+85.66 TO 1590+65.66
 SEE SHEET 10 FOR DETAILS

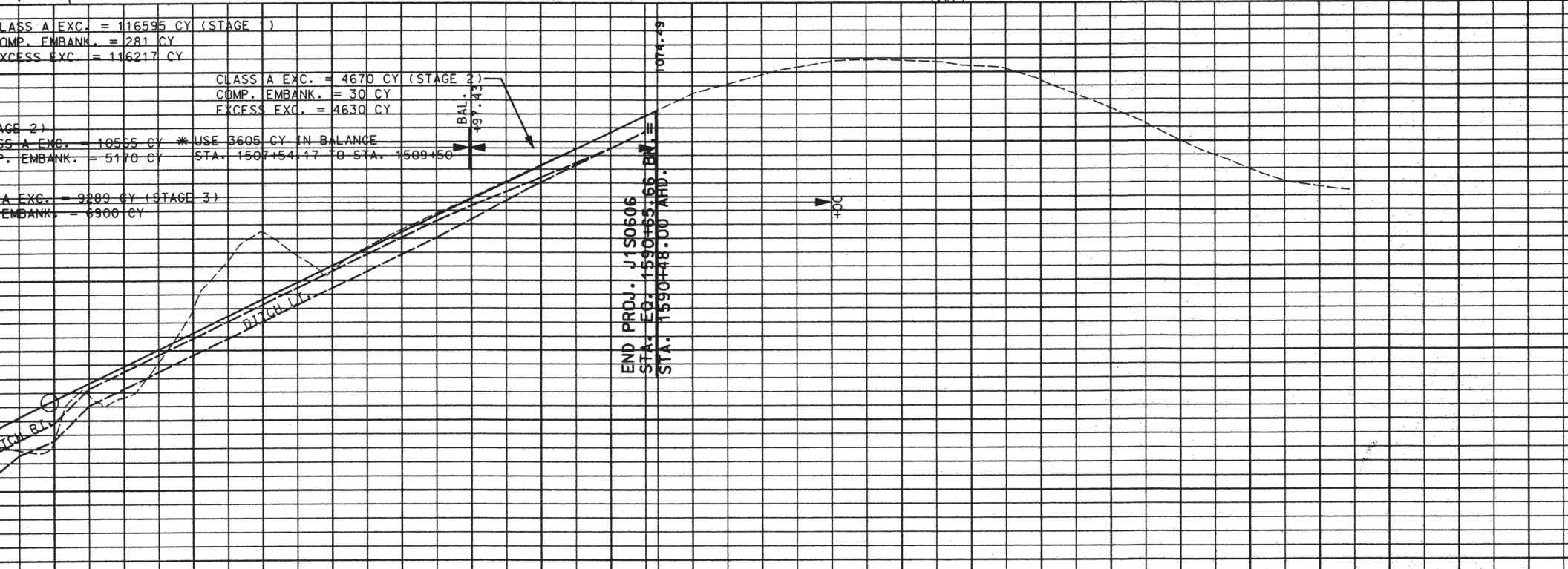


CLASS A EXC. = 116595 CY (STAGE 1)
 COMP. EMBANK. = 281 CY
 EXCESS EXC. = 116217 CY

CLASS A EXC. = 4670 CY (STAGE 2)
 COMP. EMBANK. = 30 CY
 EXCESS EXC. = 4630 CY

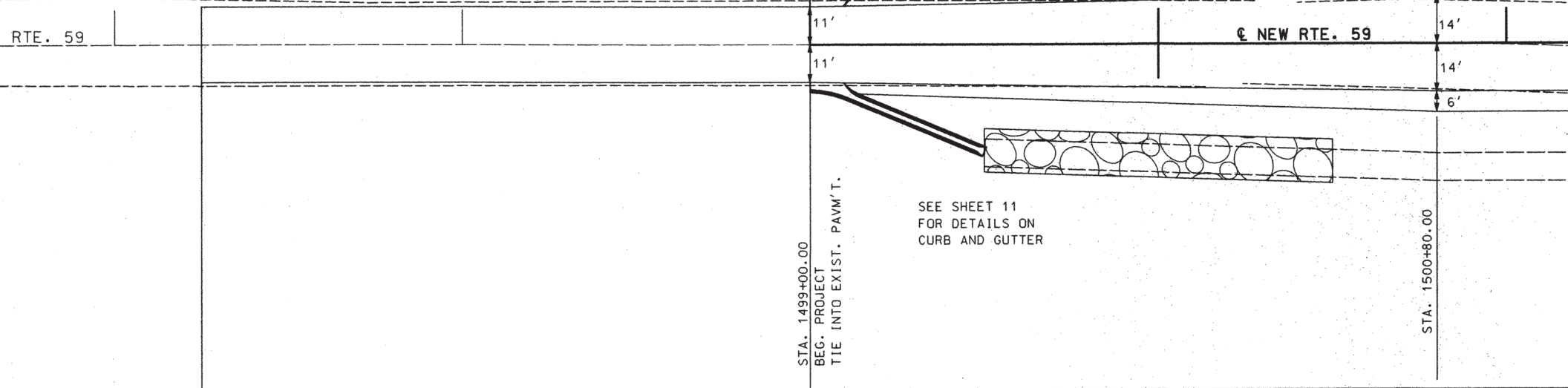
CLASS A EXC. = 10555 CY * USE 3605 CY IN BALANCE
 COMP. EMBANK. = 5170 CY
 STA. 1507+54.17 TO STA. 1509+50

CLASS A EXC. = 9289 CY (STAGE 3)
 COMP. EMBANK. = 6900 CY

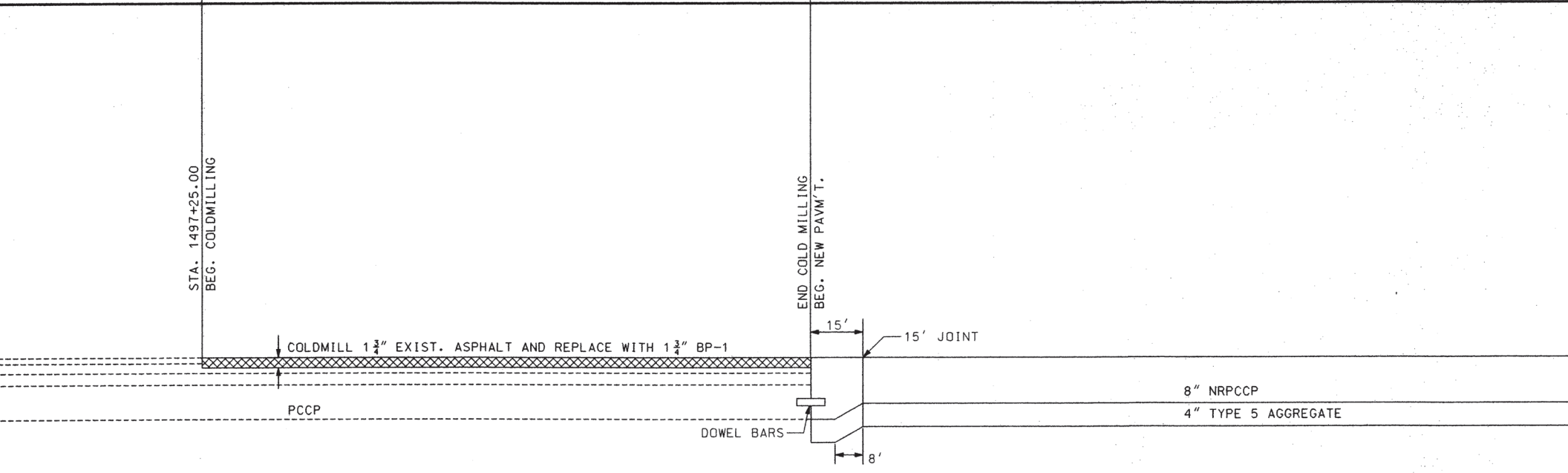


END PROJ. J150606
 STA. EQ. 1590+65.66 BK. =
 STA. 1590+48.00 AHD.

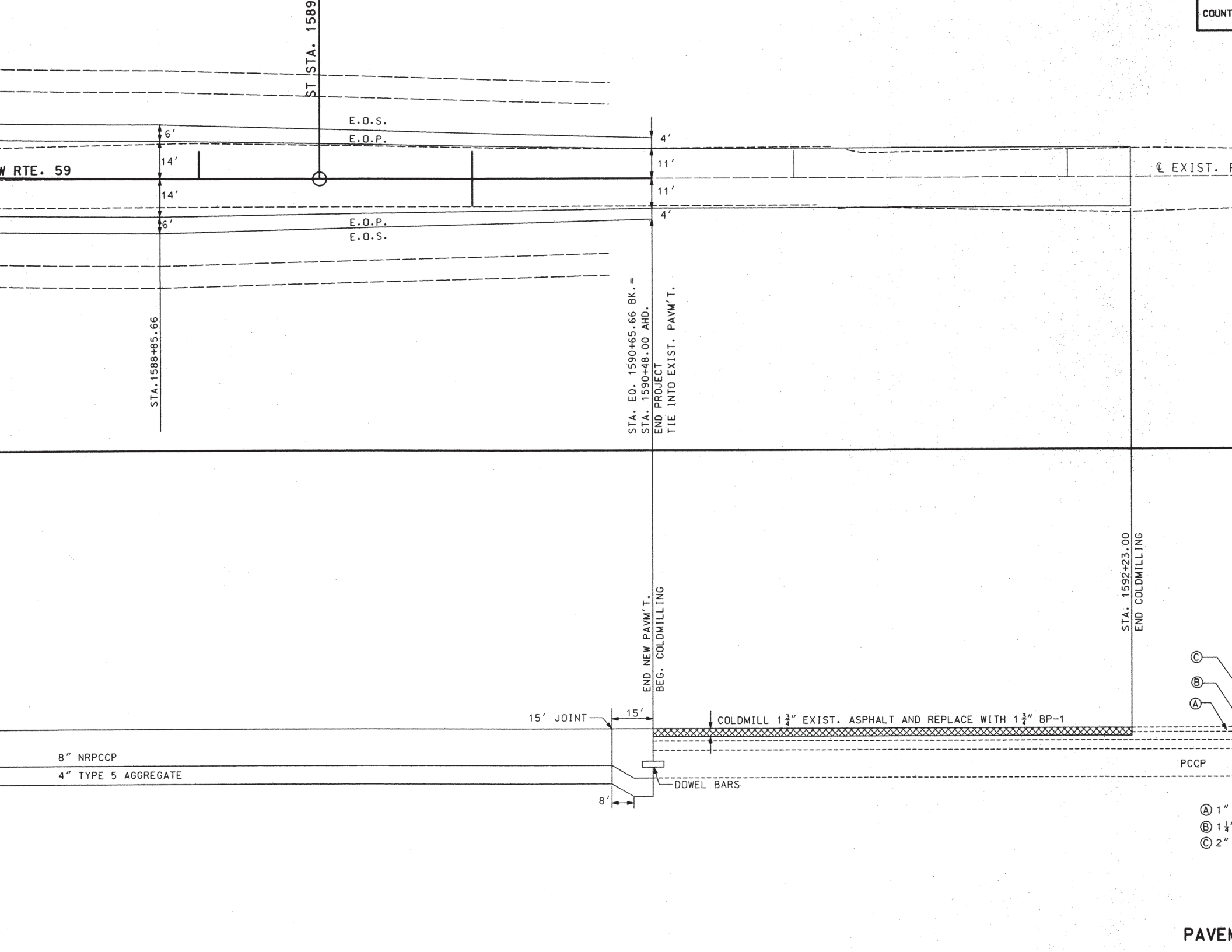
STATION	LOCATION	TYPE	GRADE SURFACE	TYPE	REMARKS	BENCH MARKS
---------	----------	------	---------------	------	---------	-------------



SEE SHEET 11
FOR DETAILS ON
CURB AND GUTTER



G COURSE
ASPH. CONC.
ASPH. CONC



W RTE. 59

ST STA. 1589

STA. 1588+85.66

E.O.S.

E.O.P.

E.O.P.

E.O.S.

STA. E.O. 1590+65.66 BK. =
STA. 1590+48.00 AHD.
END PROJECT
TIE INTO EXIST. PAVM'T.

CL EXIST. P

15' JOINT

END NEW PAVM'T.
BEG. COLDMILLING

COLDMILL 1 3/4" EXIST. ASPHALT AND REPLACE WITH 1 3/4" BP-1

STA. 1592+23.00
END COLDMILLING

8" NRPCCP
4" TYPE 5 AGGREGATE

DOWEL BARS

PCCP

C
B
A

A 1"
B 1 1/2"
C 2"

PAVEN

EXIST RTE. 59

NEW RTE

TIE INTO EXIST. CURB & GUTTER
BEG. TYPE A CURB & GUTTER.
1499+00
R = 30'

TIE INTO EXIST. CURB & GUTTER
BEG. TYPE A CURB & GUTTER
1499+00
R = 30'

+10.68

+10.68

+09.75
R = 10'

+09.75
R = 10'

+13.92

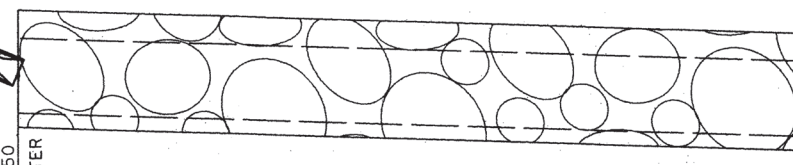
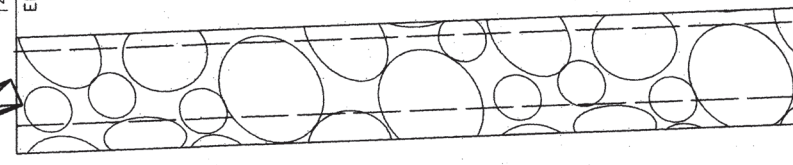
+13.92

END TYPE A CURB & GUTTER
BEG. TYPE A GUTTER

END TYPE A CURB & GUTTER
BEG. TYPE A GUTTER

1499+50
END TYPE A GUTTER

1499+50
END TYPE A GUTTER

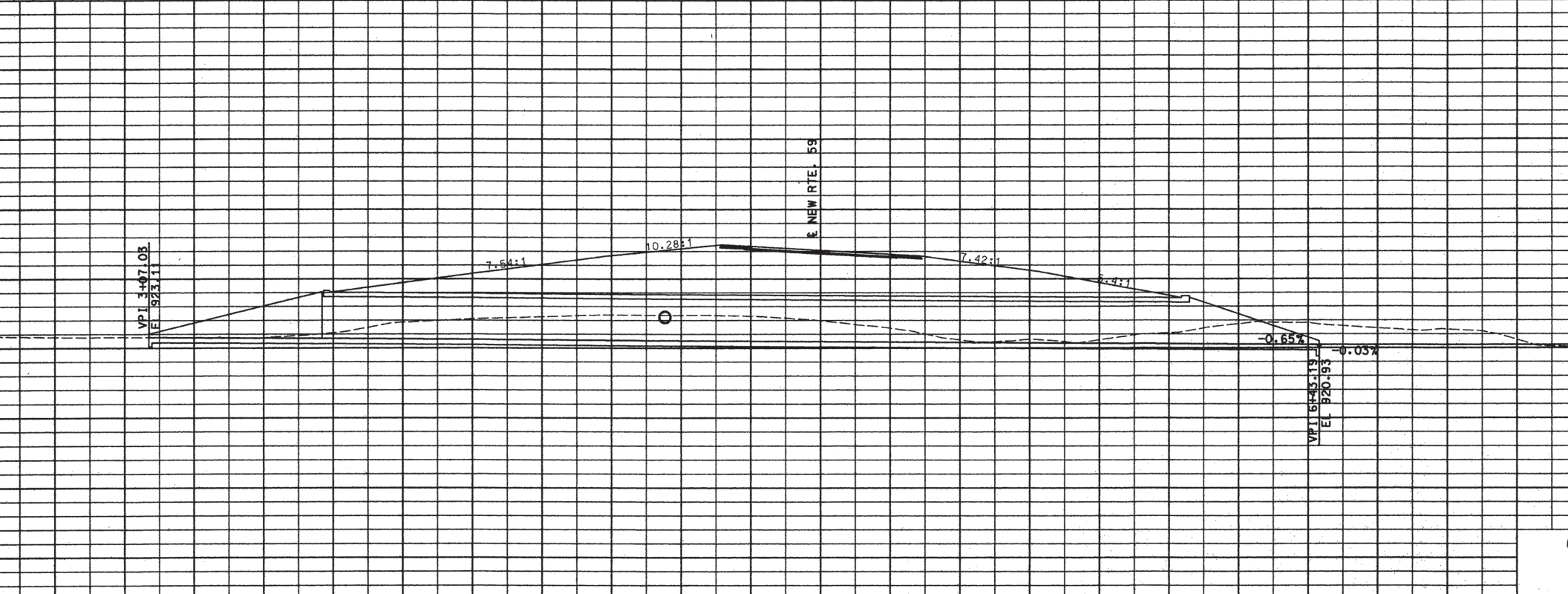
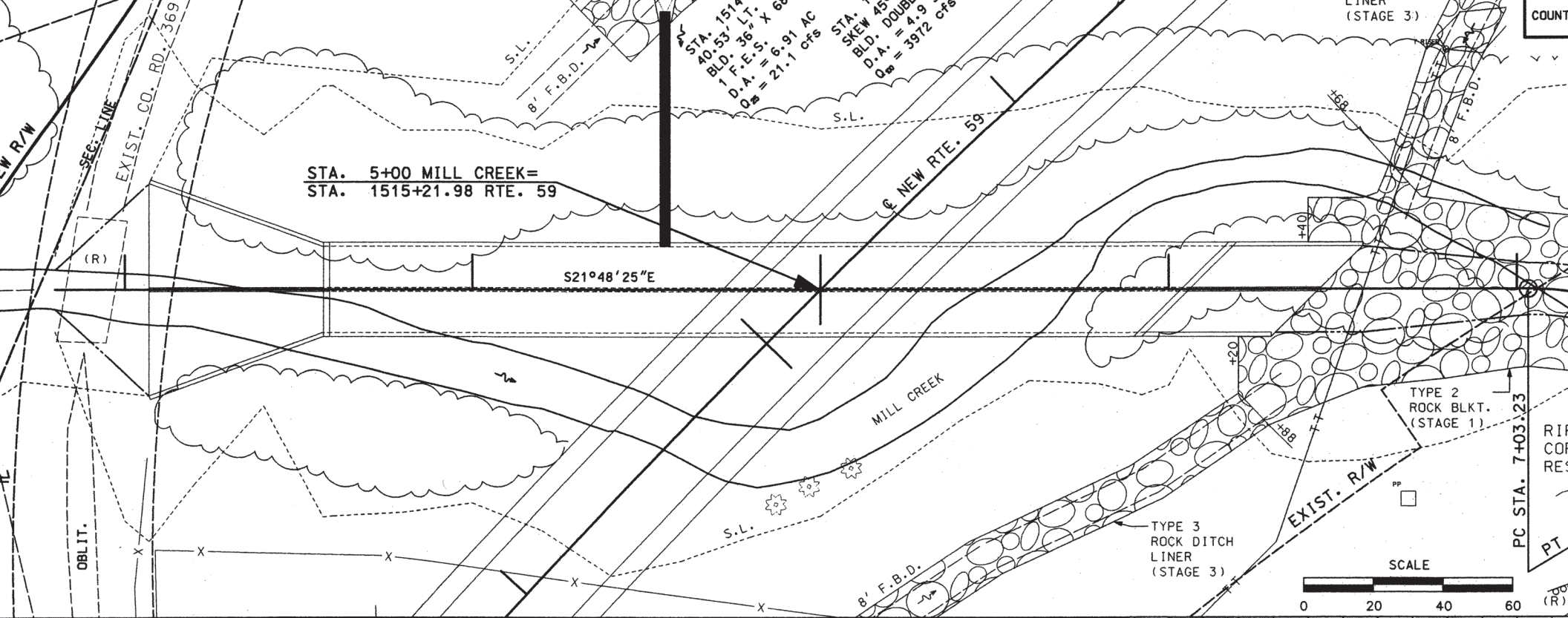


E.O.

E.O.

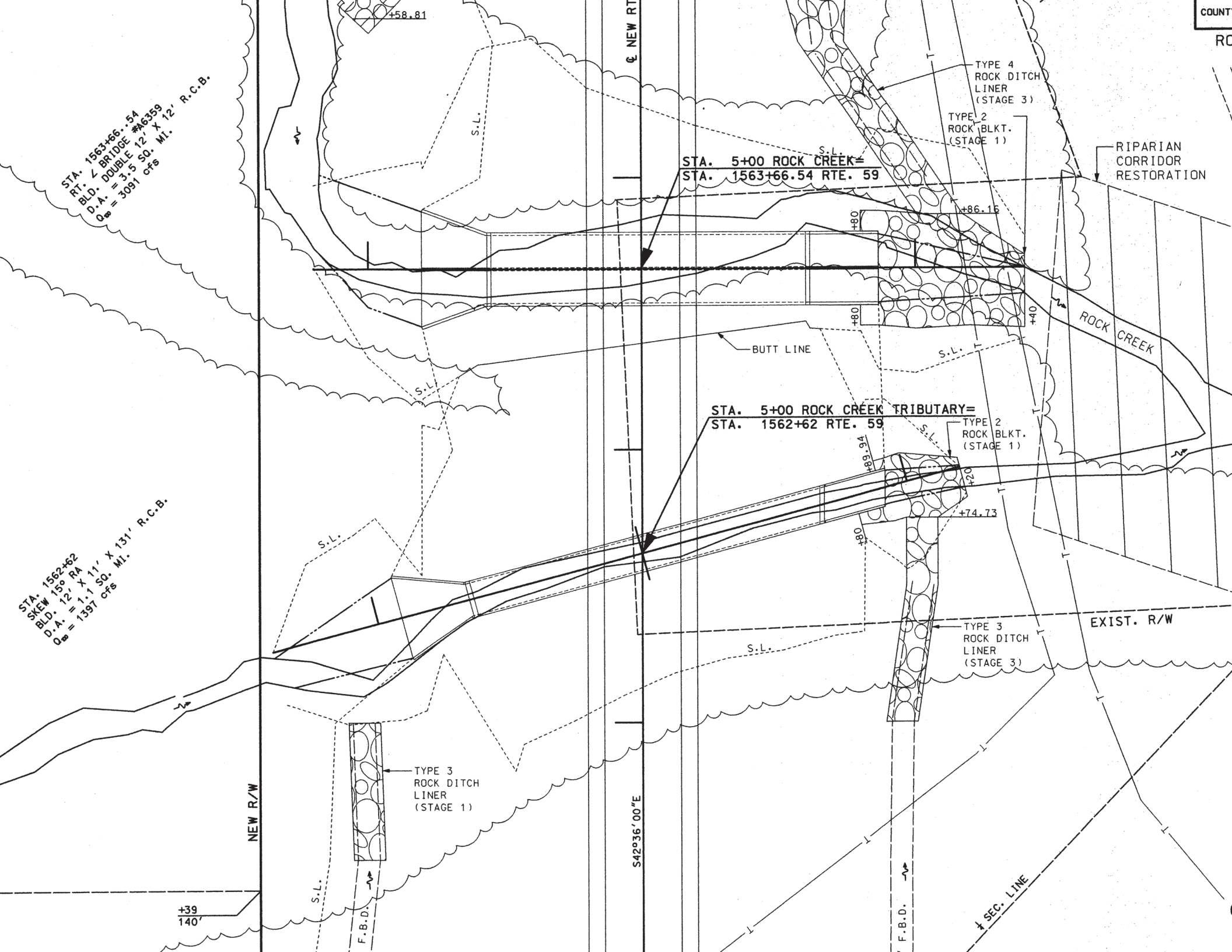
E.O.P

E.O.S



STA. 1563+66.54
RT. < BRIDGE #6359
BLD. DOUBLE 12' X 12' R.C.B.
D.A. = 3.5 SQ. MI.
Q₅₀ = 3091 cfs

STA. 1562+62
SKEW 15° RA
BLD. 12' X 11' X 131' R.C.B.
D.A. = 1.1 SQ. MI.
Q₅₀ = 1397 cfs



NEW RT

STA. 5+00 ROCK CREEK =
STA. 1563+66.54 RTE. 59

TYPE 4
ROCK DITCH
LINER
(STAGE 3)

TYPE 2
ROCK BLKT.
(STAGE 1)

RIPARIAN
CORRIDOR
RESTORATION

ROCK CREEK

BUTT LINE

STA. 5+00 ROCK CREEK TRIBUTARY =
STA. 1562+62 RTE. 59

TYPE 2
ROCK BLKT.
(STAGE 1)

EXIST. R/W

TYPE 3
ROCK DITCH
LINER
(STAGE 3)

TYPE 3
ROCK DITCH
LINER
(STAGE 1)

NEW R/W

S42°36'00"E

SEC. LINE

+39
140

F.B.D.

F.B.D.

COUNTY

RO

STA. 154
 SKEW 70° RA
 BLD. 54" X 180' CL.
 2 F.E.S.
 D.A. = 34.61 AC
 Q₂ = 200 cfs

STA. 5+00 SIDE DITCH=
 STA. 1541+27 RTE. 59

P.I. 6+00.47
 $\Delta - 15^\circ$

EC. LINE

NEW RTE. 59

S46°30'

S36°30'00"W

16' F.B.D.

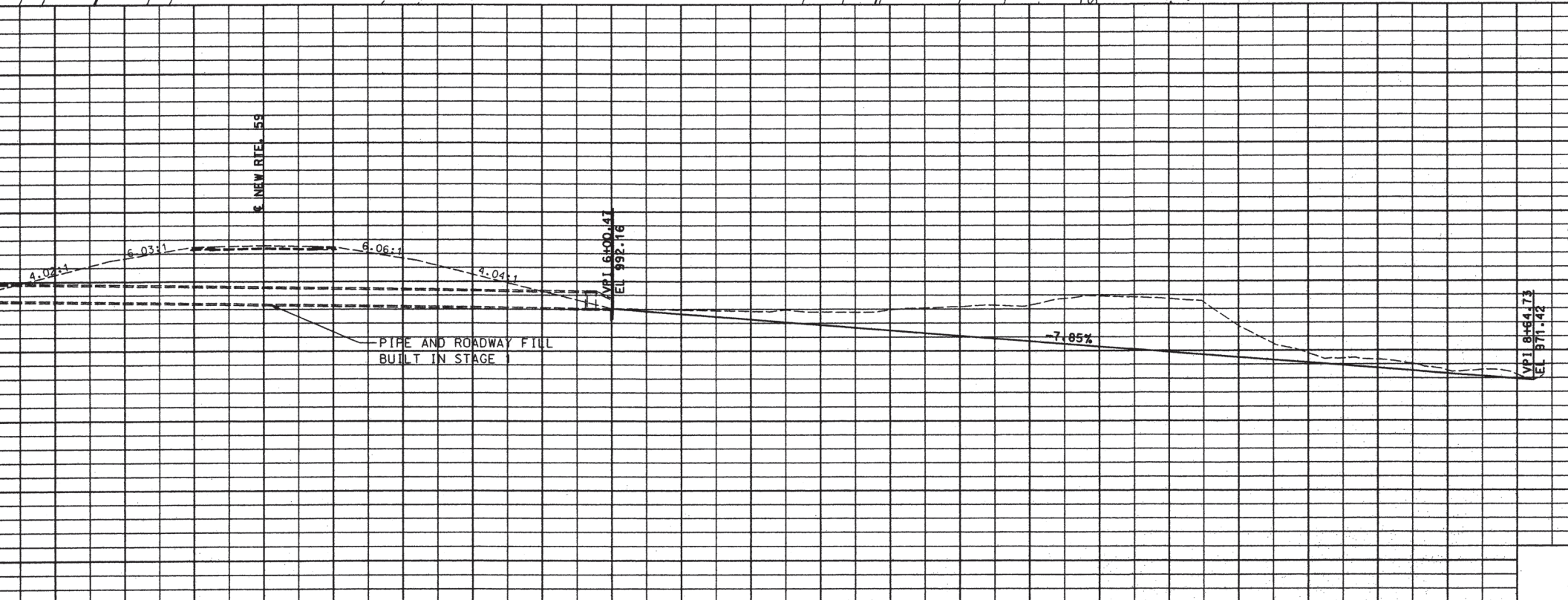
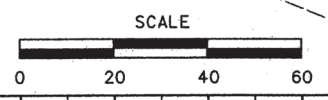
S21°30'00"W

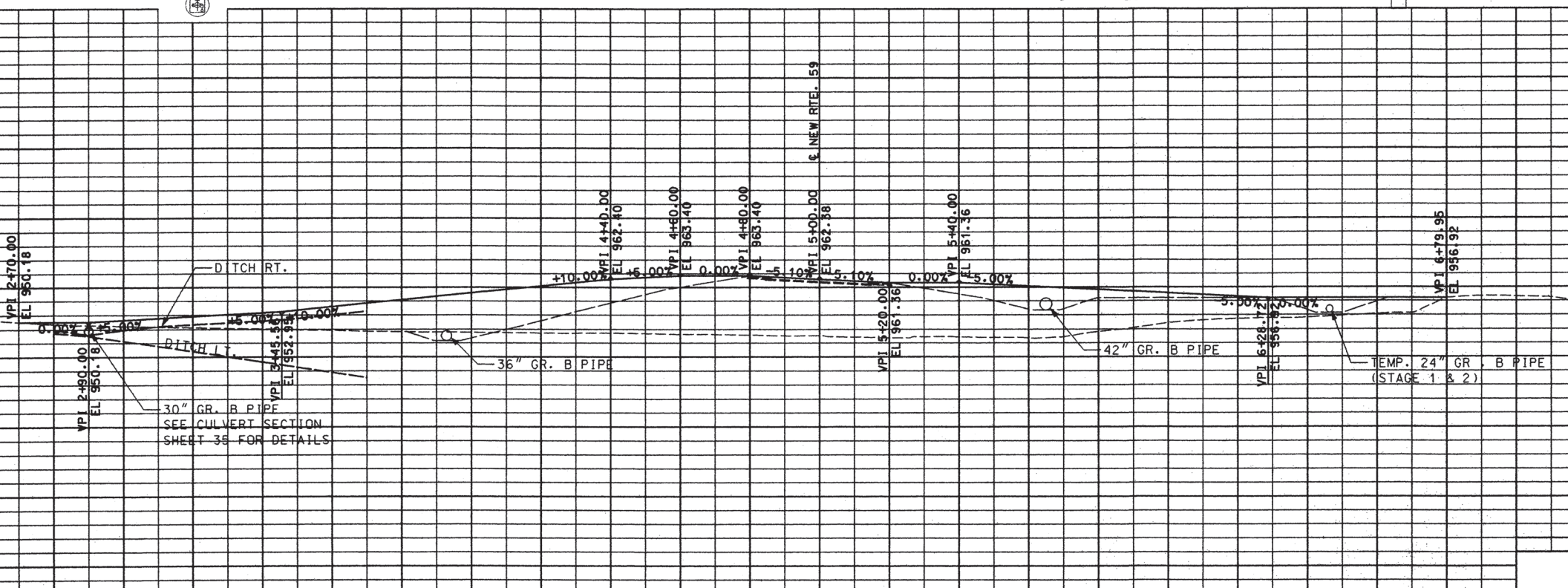
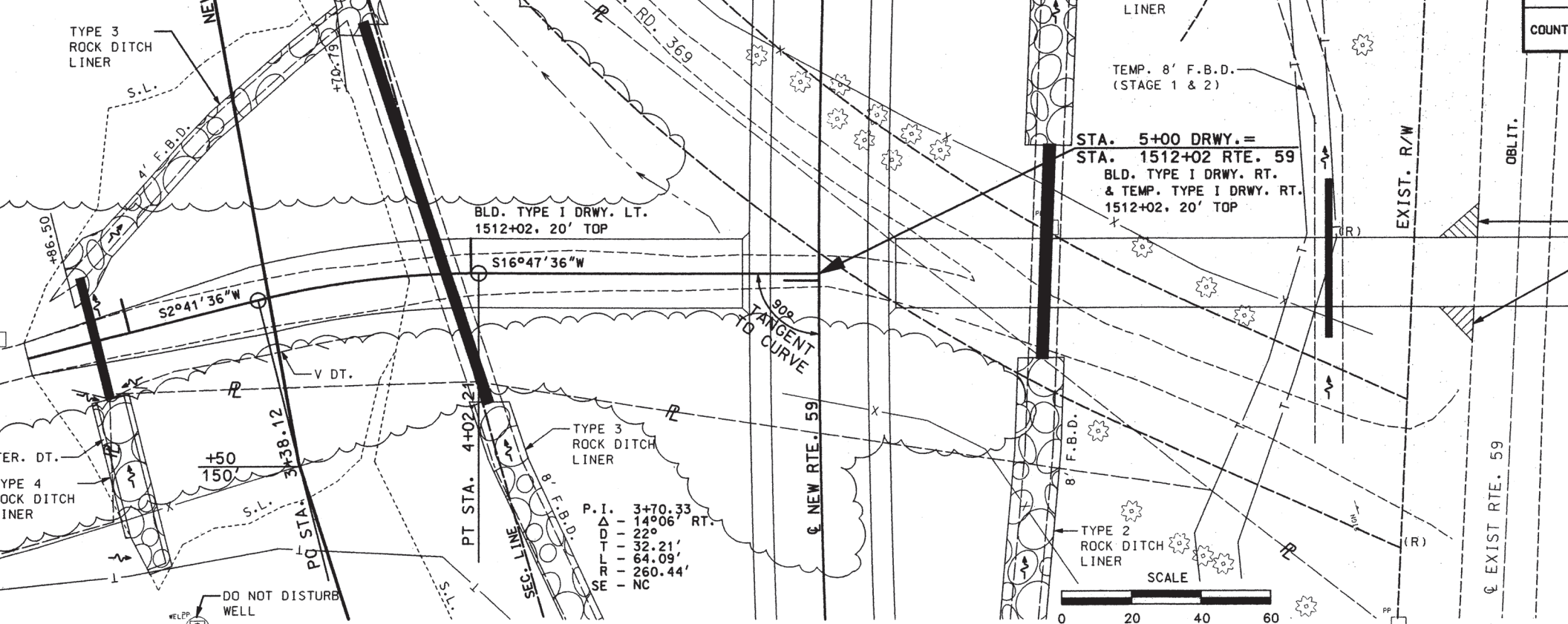
ROCK LINING (STAGE 3)

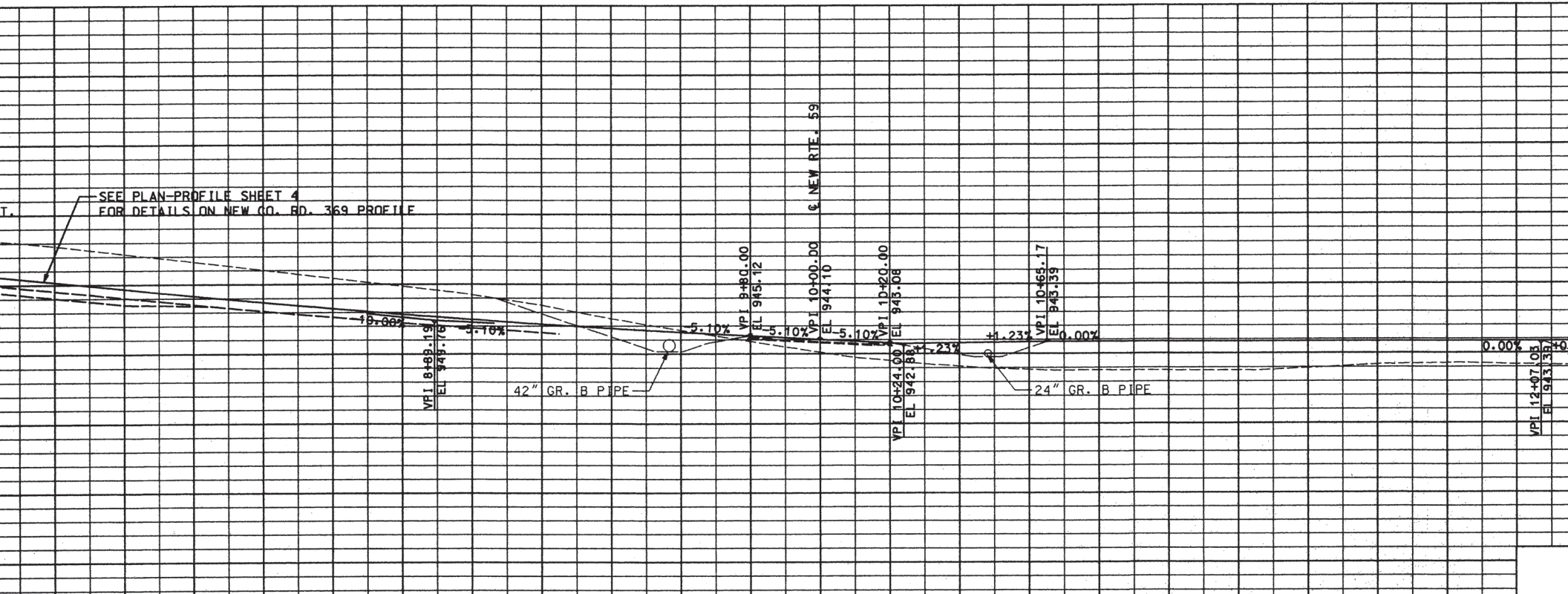
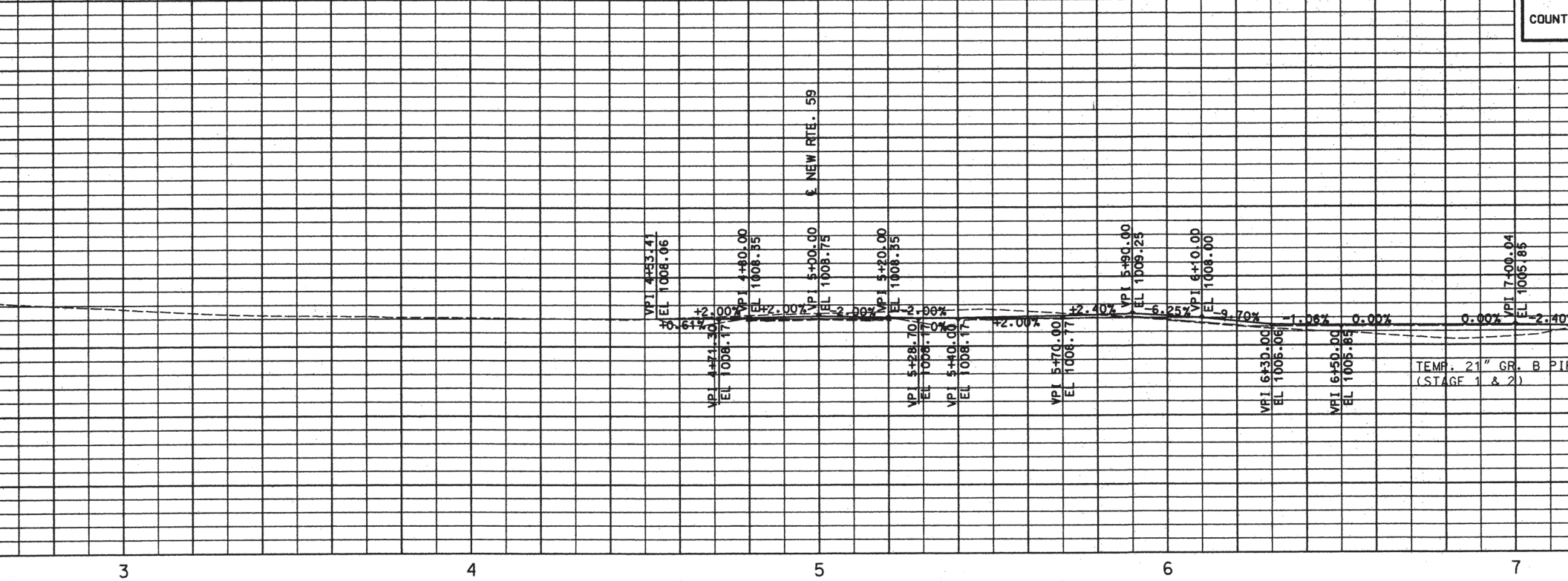
OBLIT.

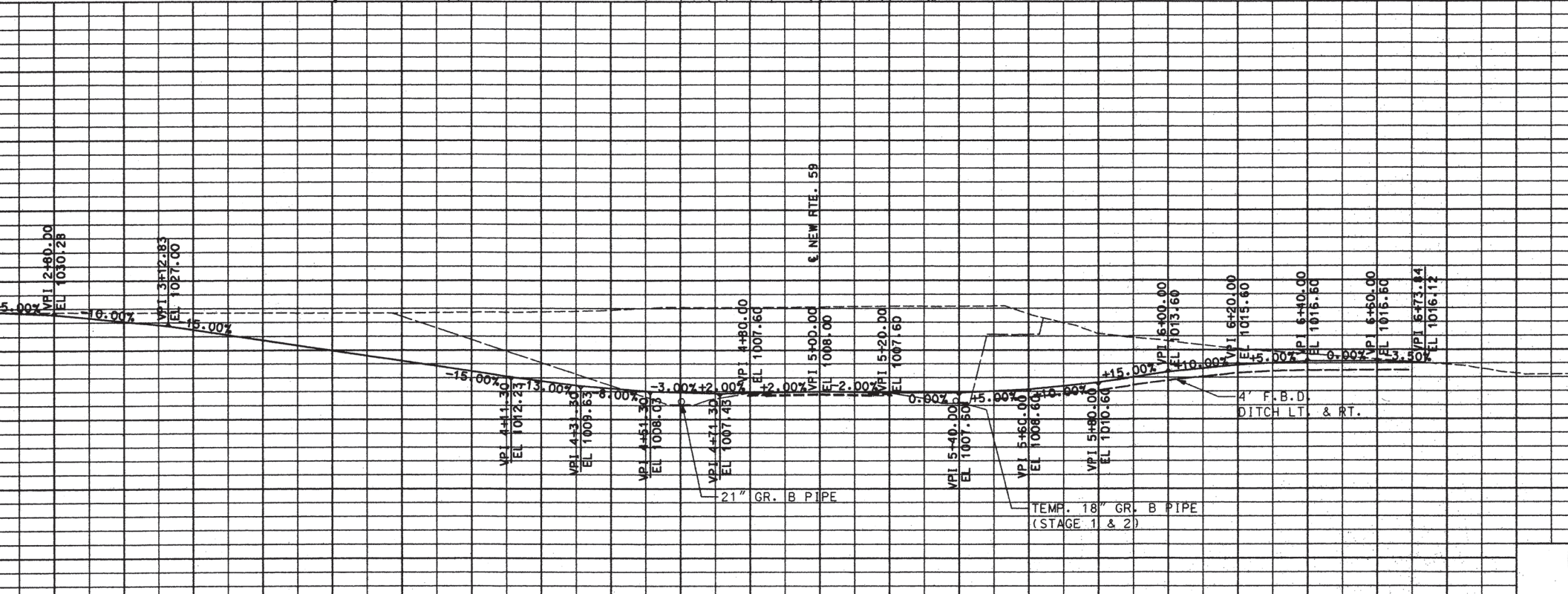
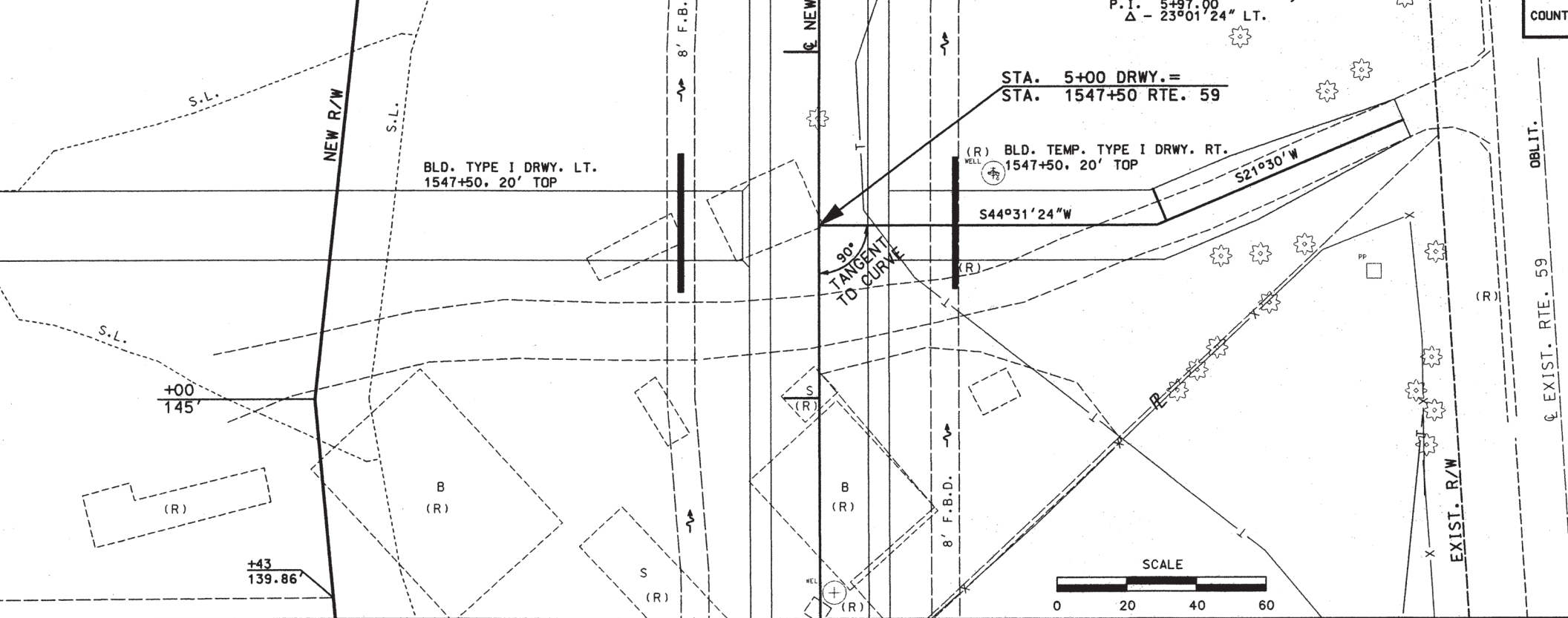
EXIST. RTE. 59

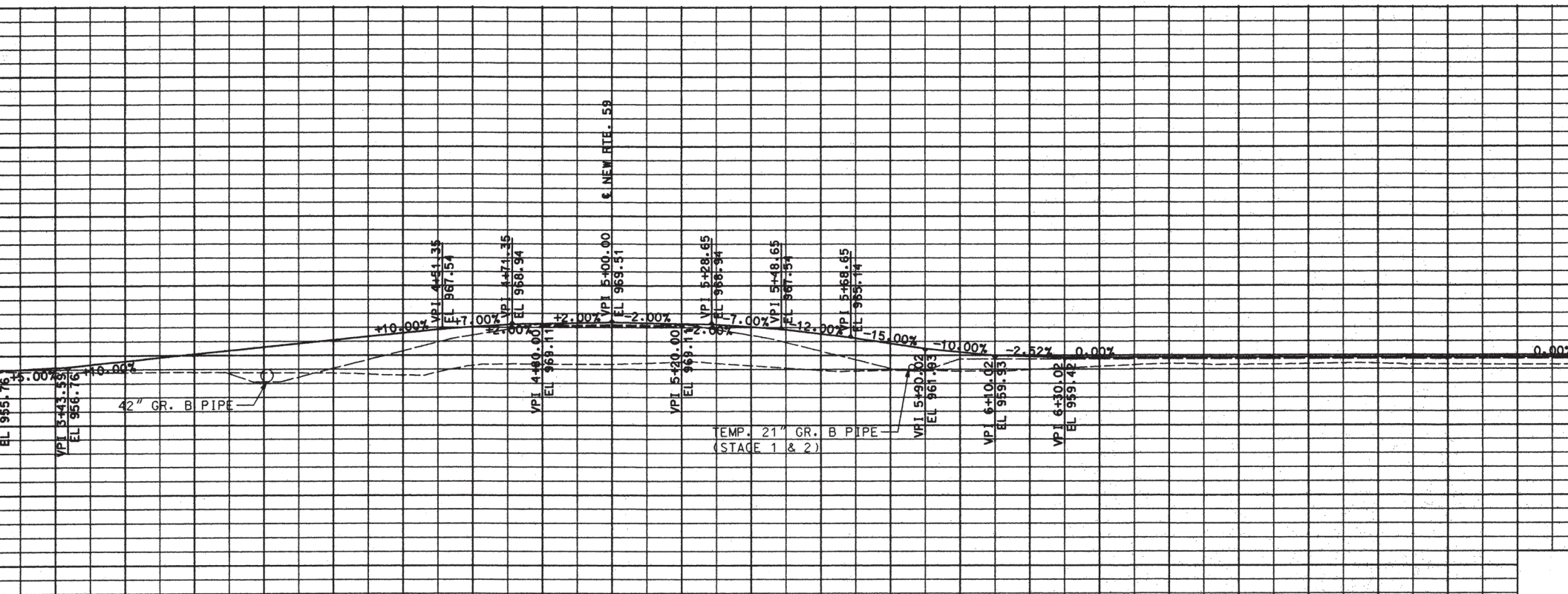
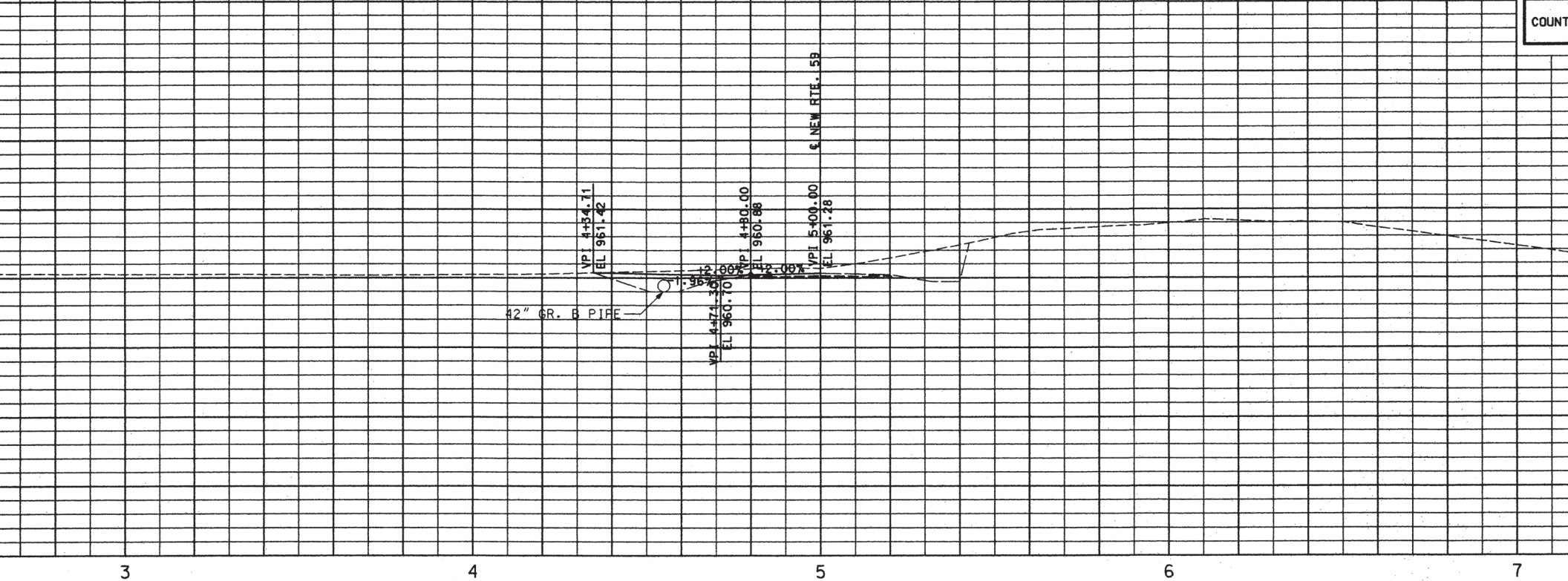
TYPE 4 ROCK DITCH LINER (STAGE 3)

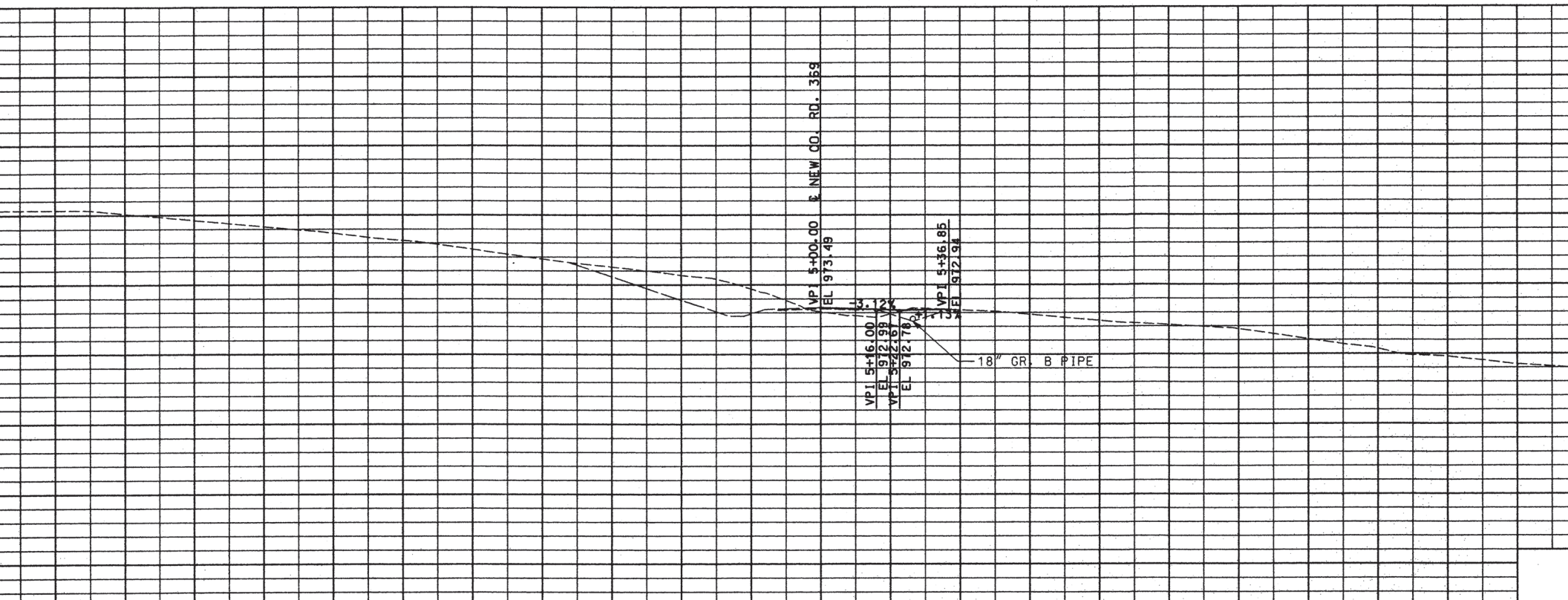
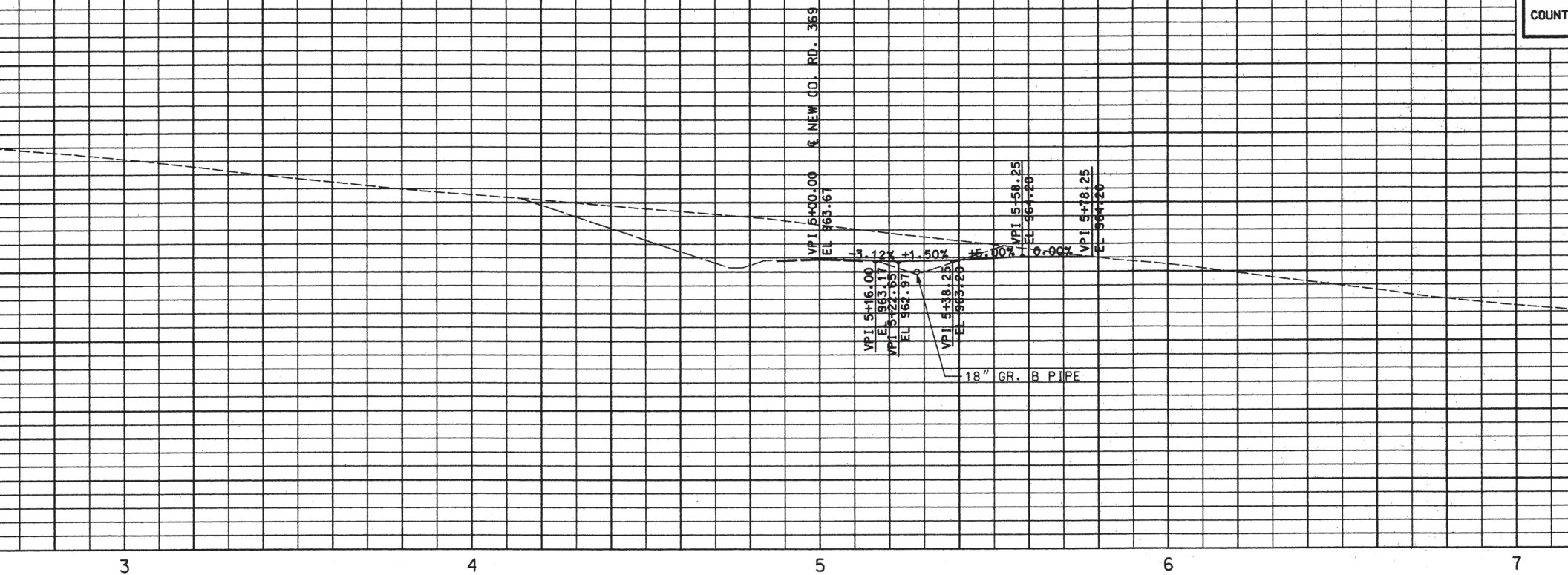


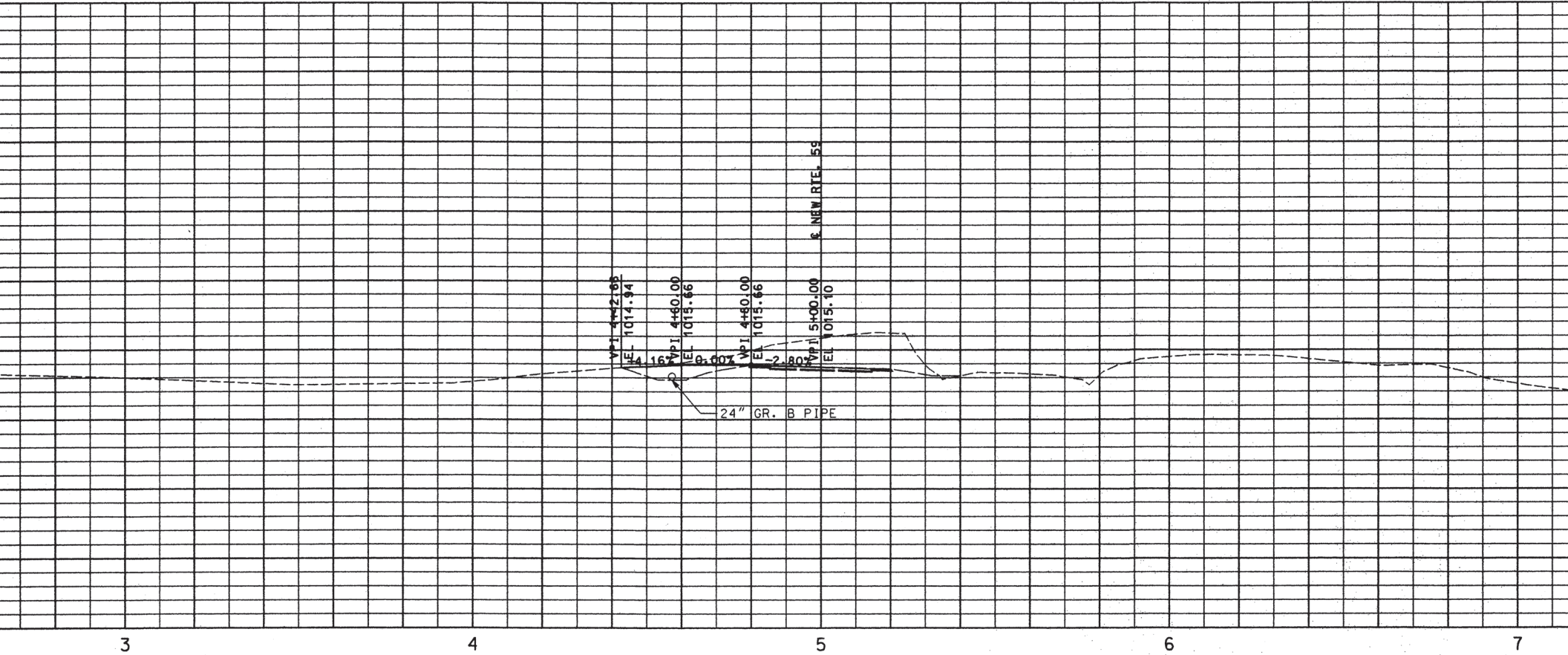












VPI 4+22.65
EL 1014.34

VPI 4+60.00
EL 1015.66

VPI 4+80.00
EL 1015.66

VPI 5+00.00
EL 1015.10

NEW RTE. 59

24" GR. B PIPE

VP 5+00.00 @ NEW RTE. 59

VP 5+00.00
EL 973.79

VP 5+20.00
EL 973.39

VP 5+28.65
EL 973.42

VP 5+48.65
EL 972.91

VP 6+30.00
EL 972.61

VP 7+30.00
EL 971.182

VP 7+50.00
EL 971.38

VP 8+50.00
EL 964.80

-2.00%

-3.04%

0.00%

0.00%

-1.59%

-1.59%

-2.30%

-8.43%

0.19%

-8.53%

21" GR. B PIPE

5

6

7

8

9

VP 5+00.00 @ NEW RTE. 59

VP 5+00.00
EL 1008.75

VP 5+20.00
EL 1008.35

VP 5+28.65
EL 1008.17

VP 5+48.65
EL 1008.135

VP 6+13.40
EL 1011.41

VP 7+00.00
EL 1011.41

0.00%

0.00%

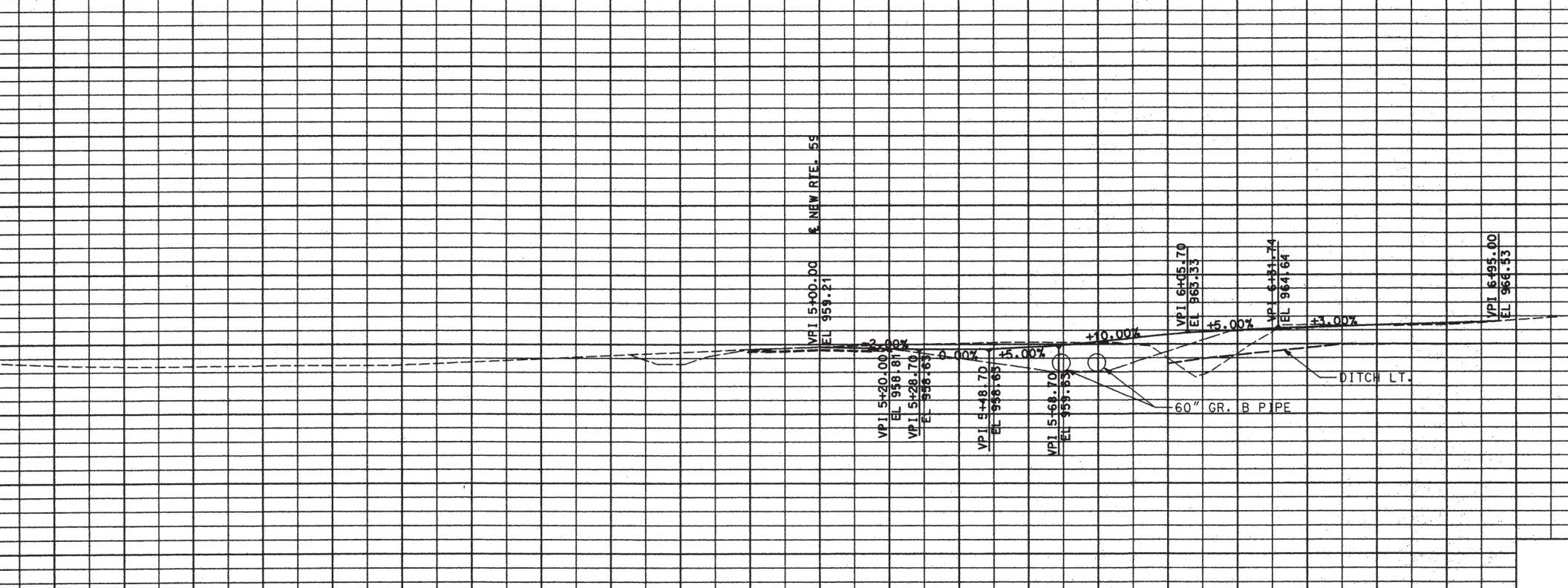
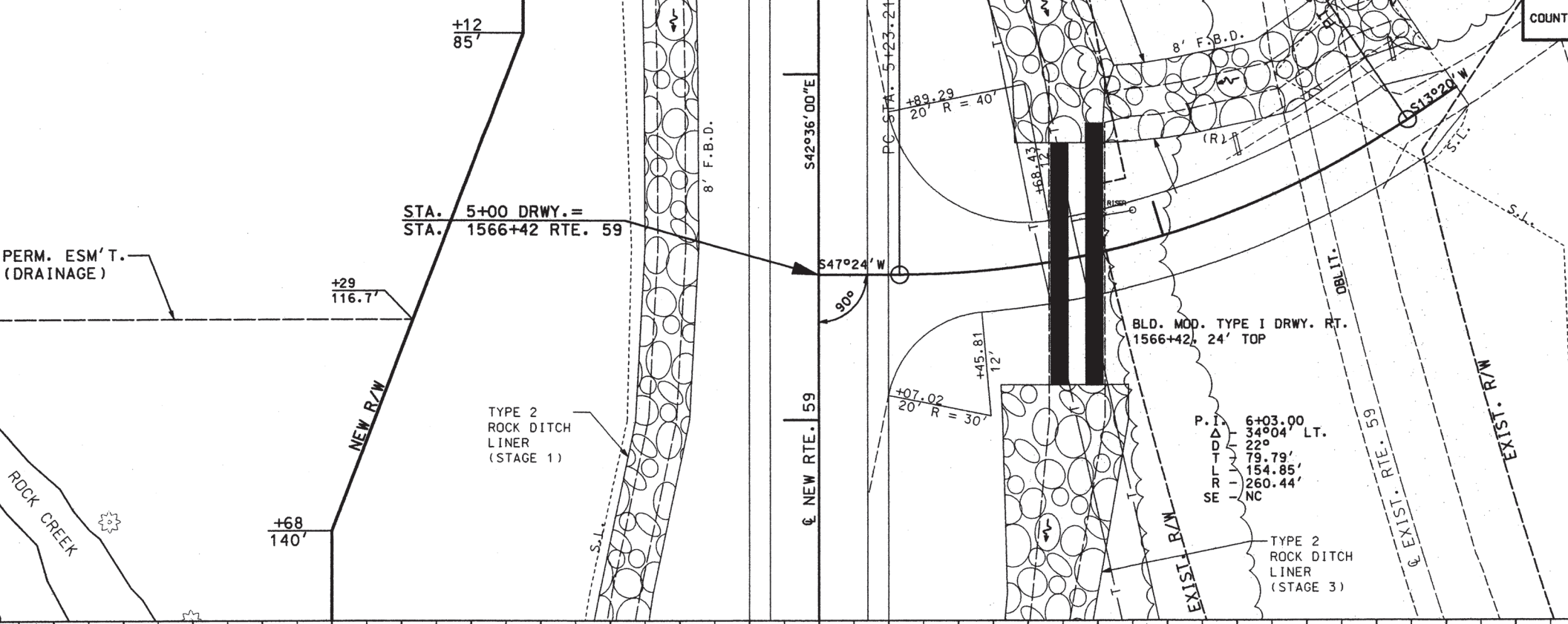
35.00%

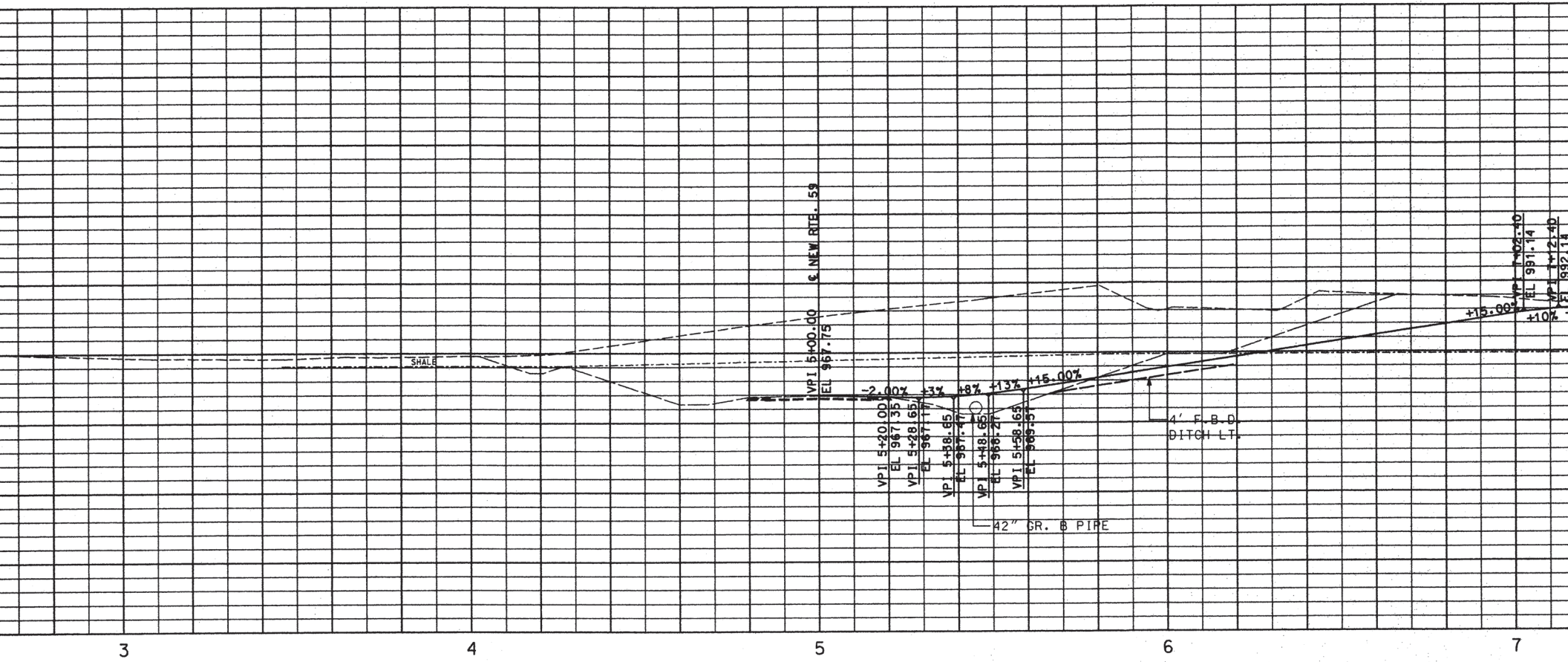
15.00%

0.00%

0.00%

-0.30%





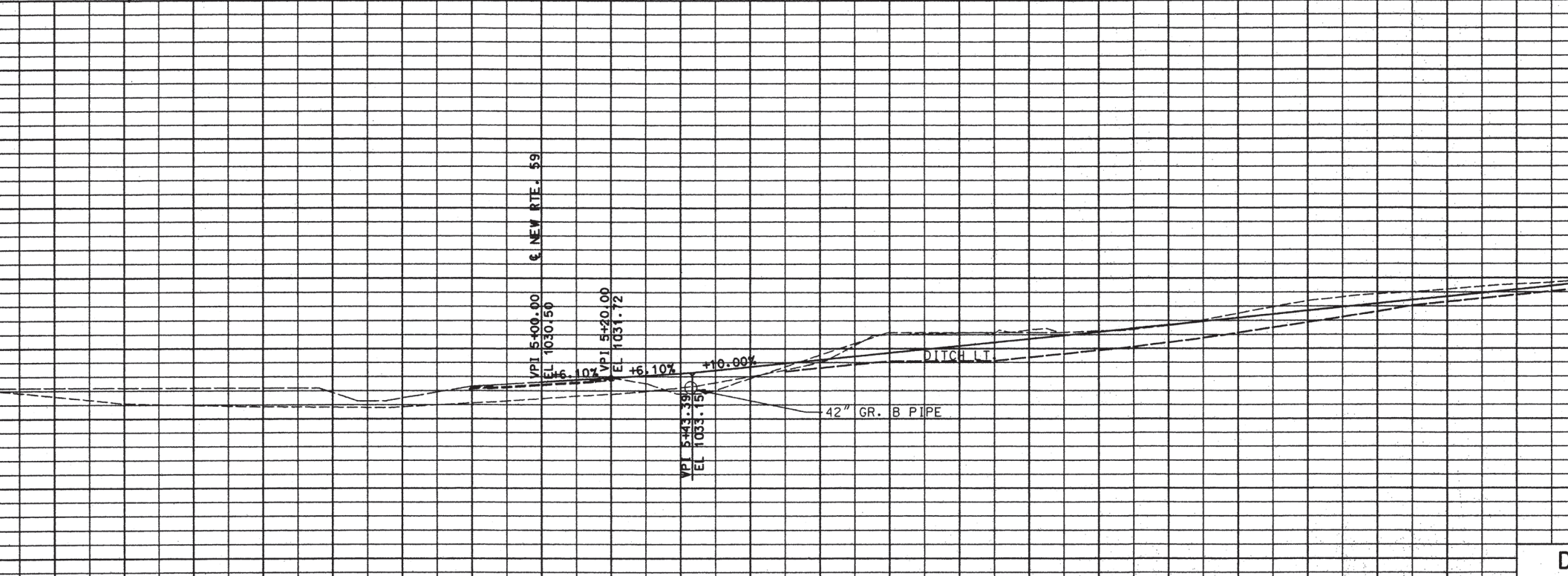
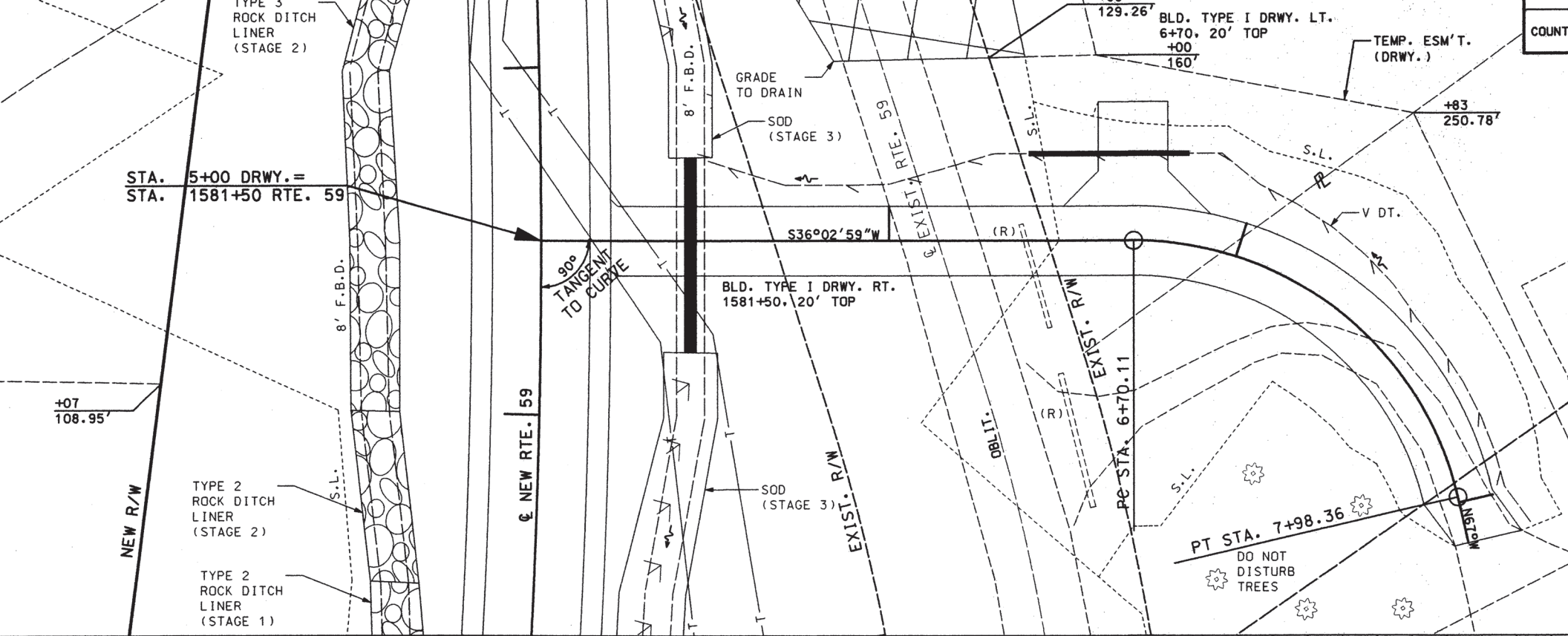
3

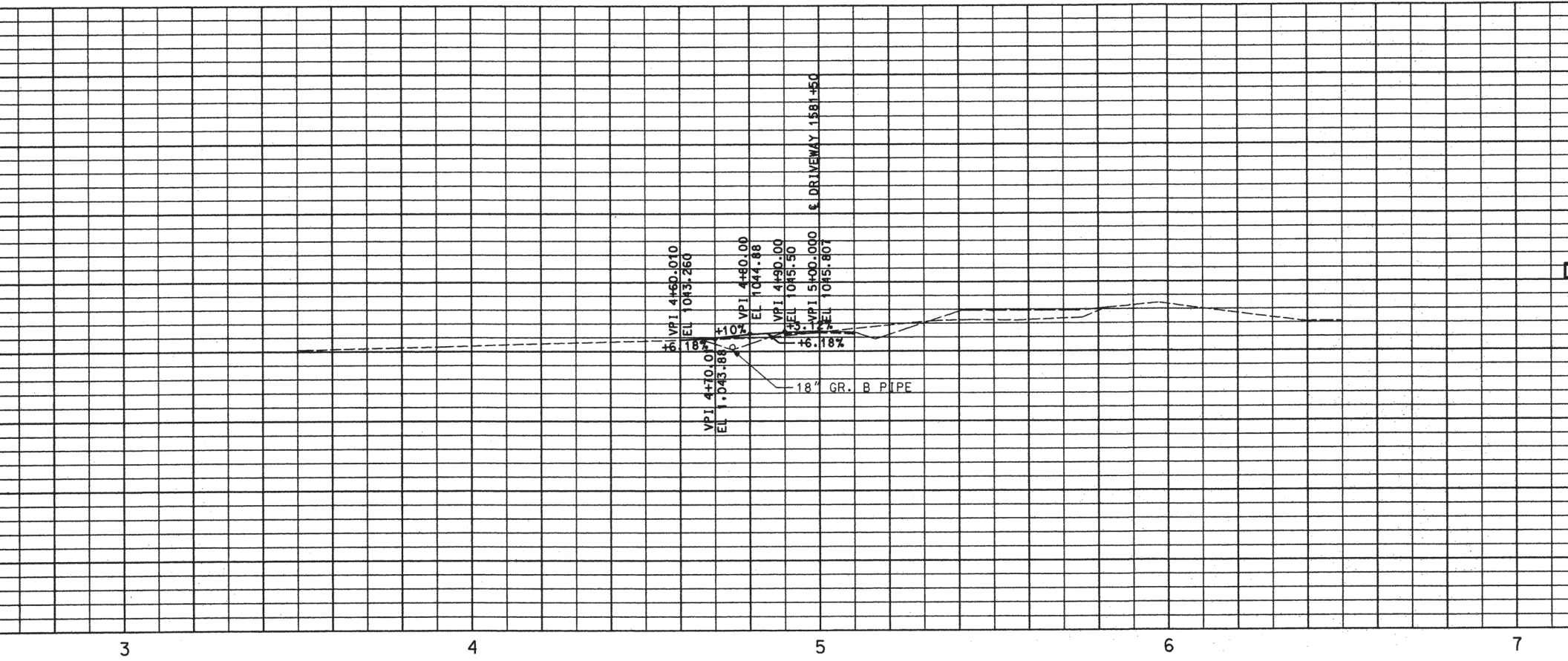
4

5

6

7





Y IS 30 FEET OR MORE BEYOND THE EDGE OF TRAVEL WAY.
TY IS BEYOND THE EDGE OF SHOULDER AND
TRAVEL WAY.
IF THE WORK ACTIVITY IS ON THE SHOULDER,
SHALL BE COVERED OR REMOVED.

(25)

R2-1
4021-5b
(21)

R2-1
60
(25)

CONST-3A
(53)

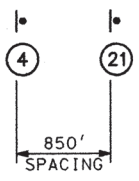
PROPOSED RTE. 59

WORK AREA- STAGE 1

EXIST. RTE. 59

WORK AREA- STAGE 3

(21)



NOTE: DRAWING NOT TO SCALE



(26)

PROPOSED RTE. 59

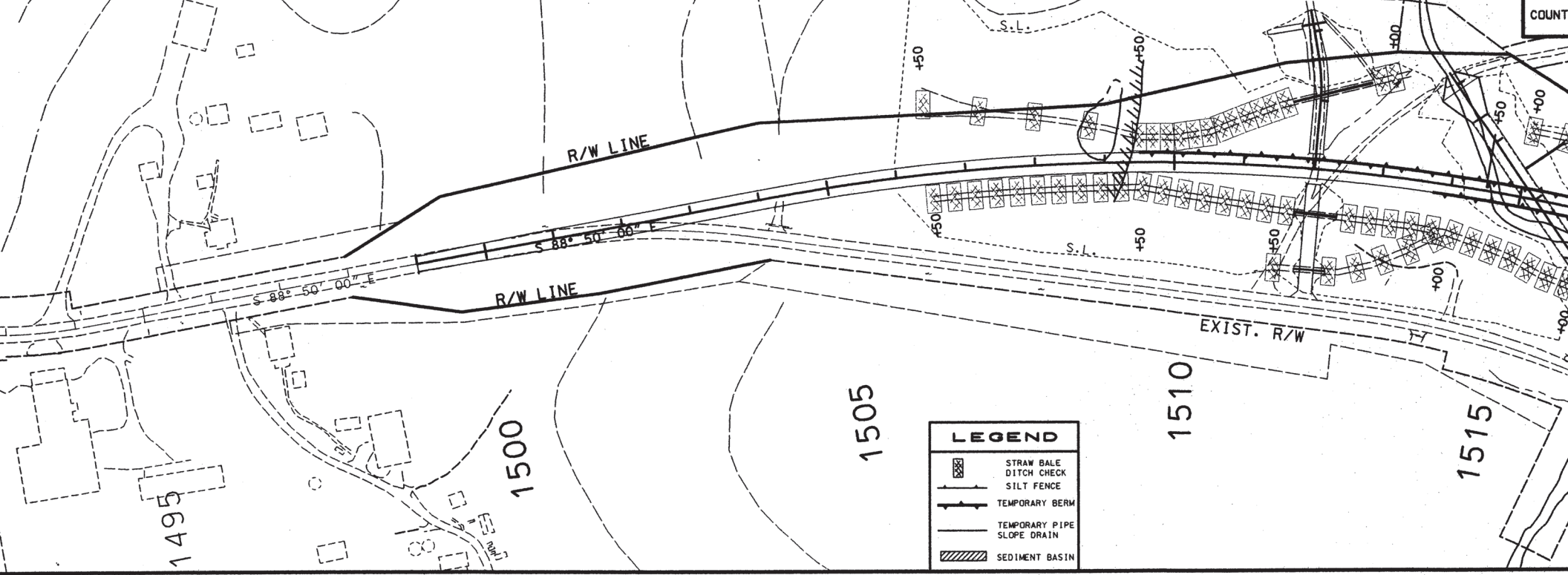
1000'
TYPICAL
SPACING

EXIST. RTE. 59

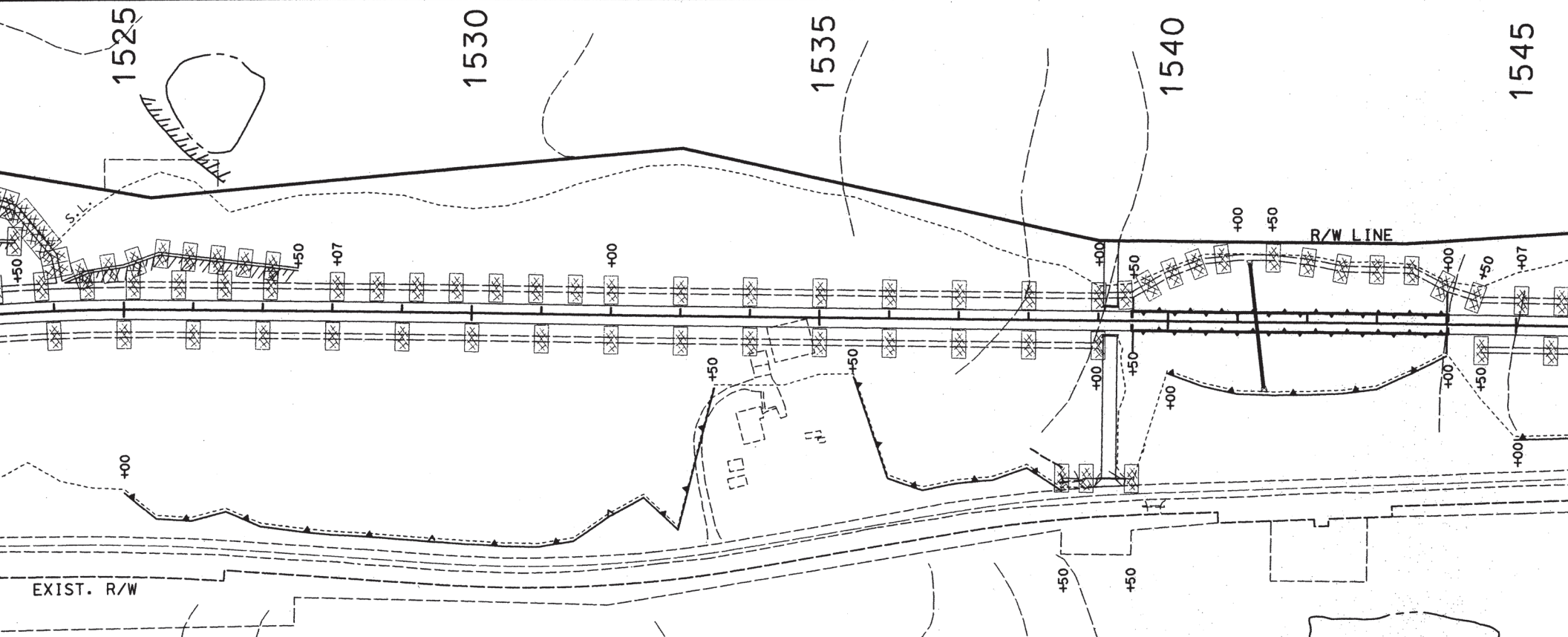
BEGINNING OF PROJECT LIMITS
OR INITIAL WORK ZONE SIGN

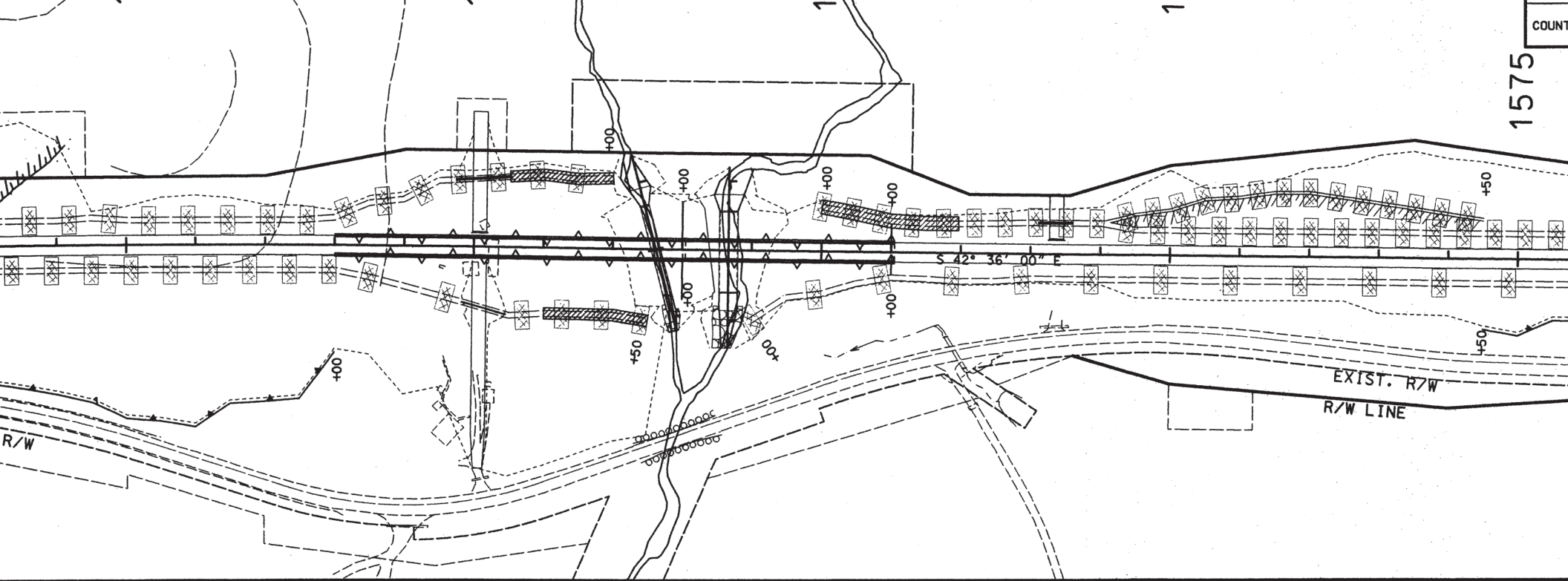
END OF PROJECT LIMITS
OR LAST WORK ZONE SIGN

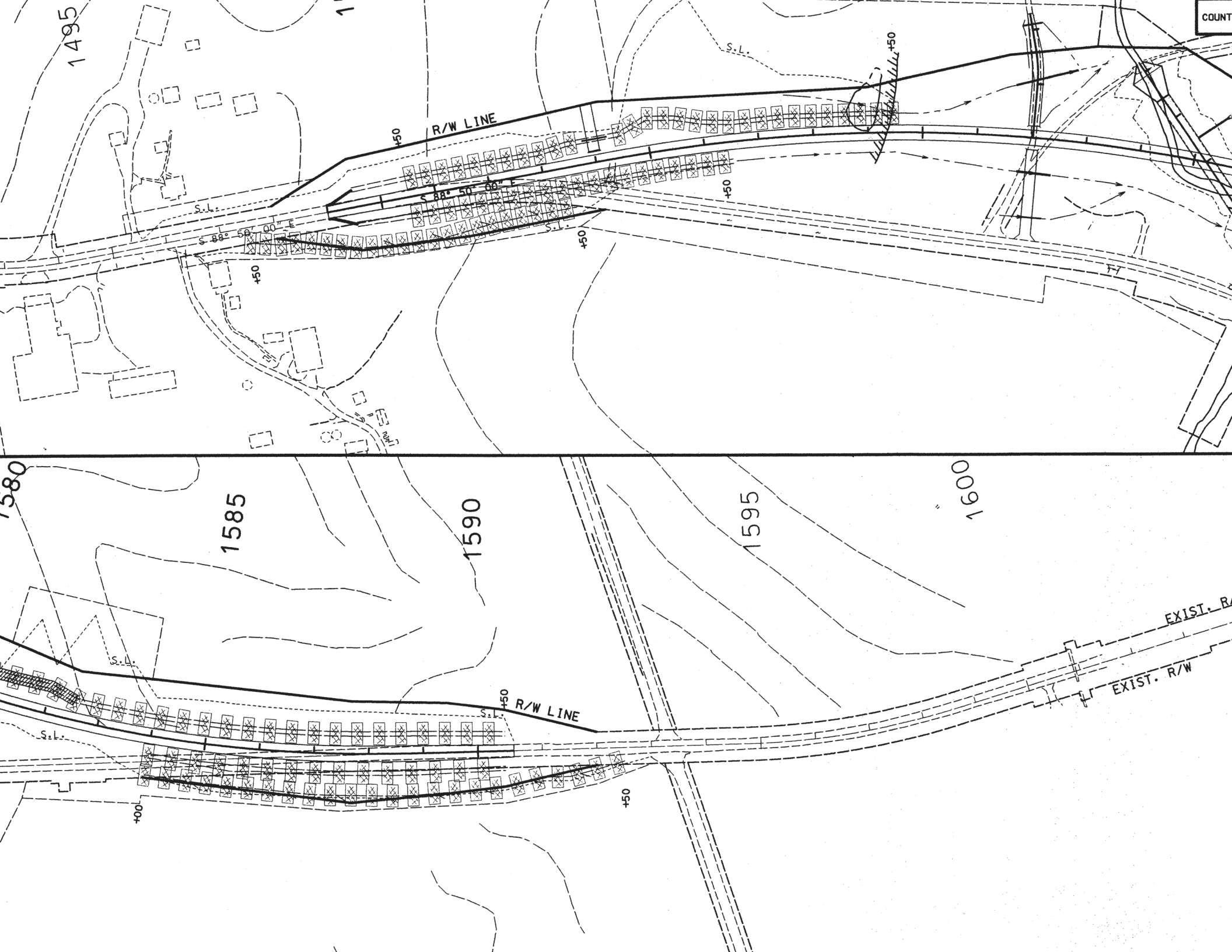
500'
1000'
TYPICAL
SPACING

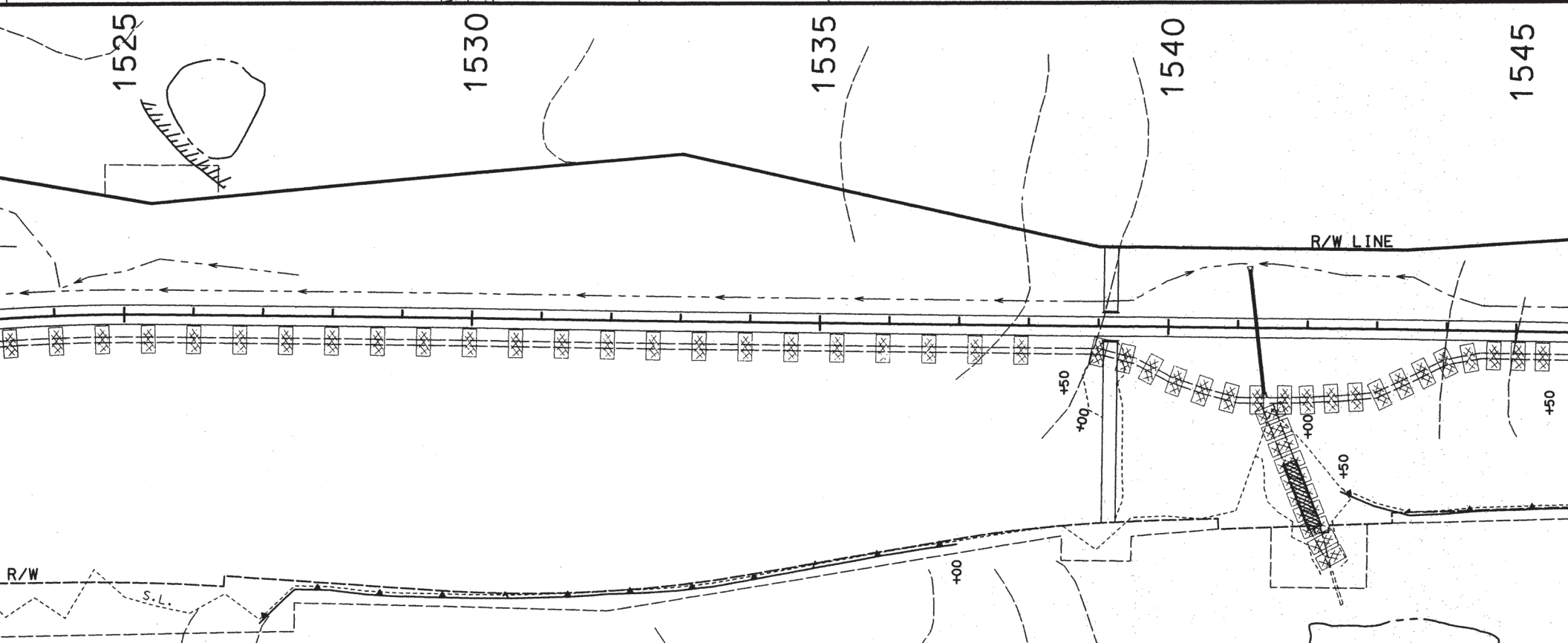
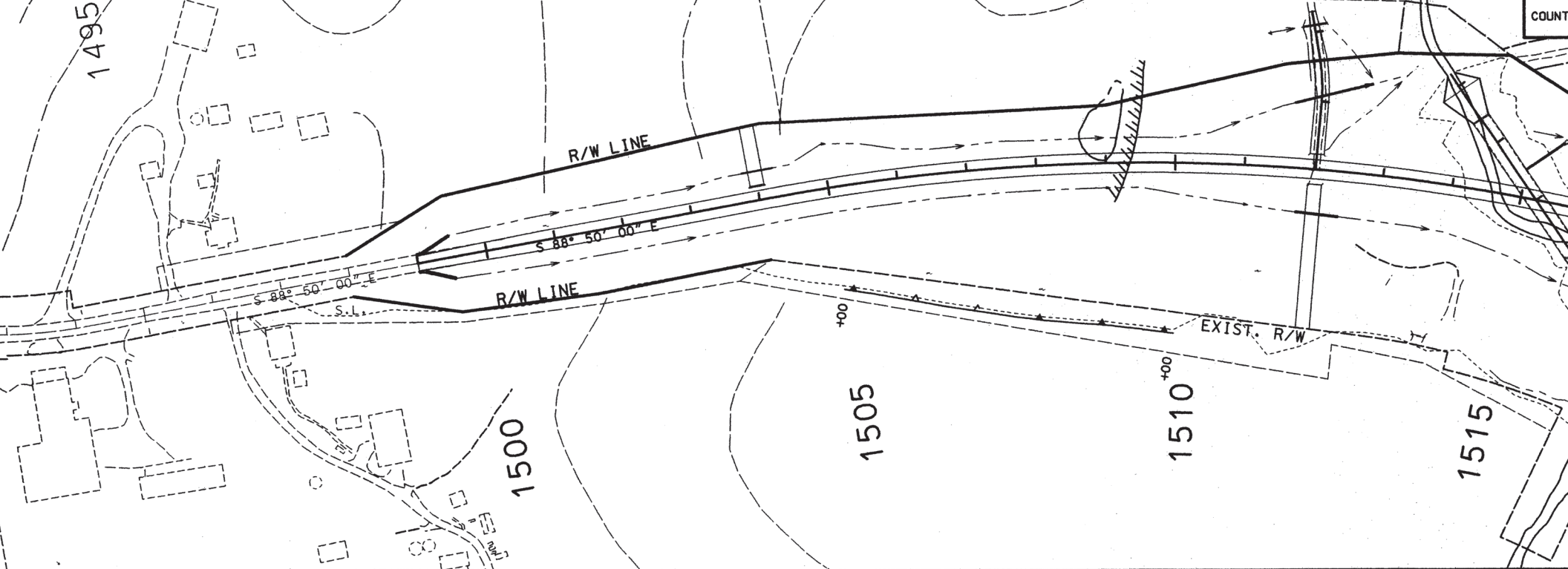


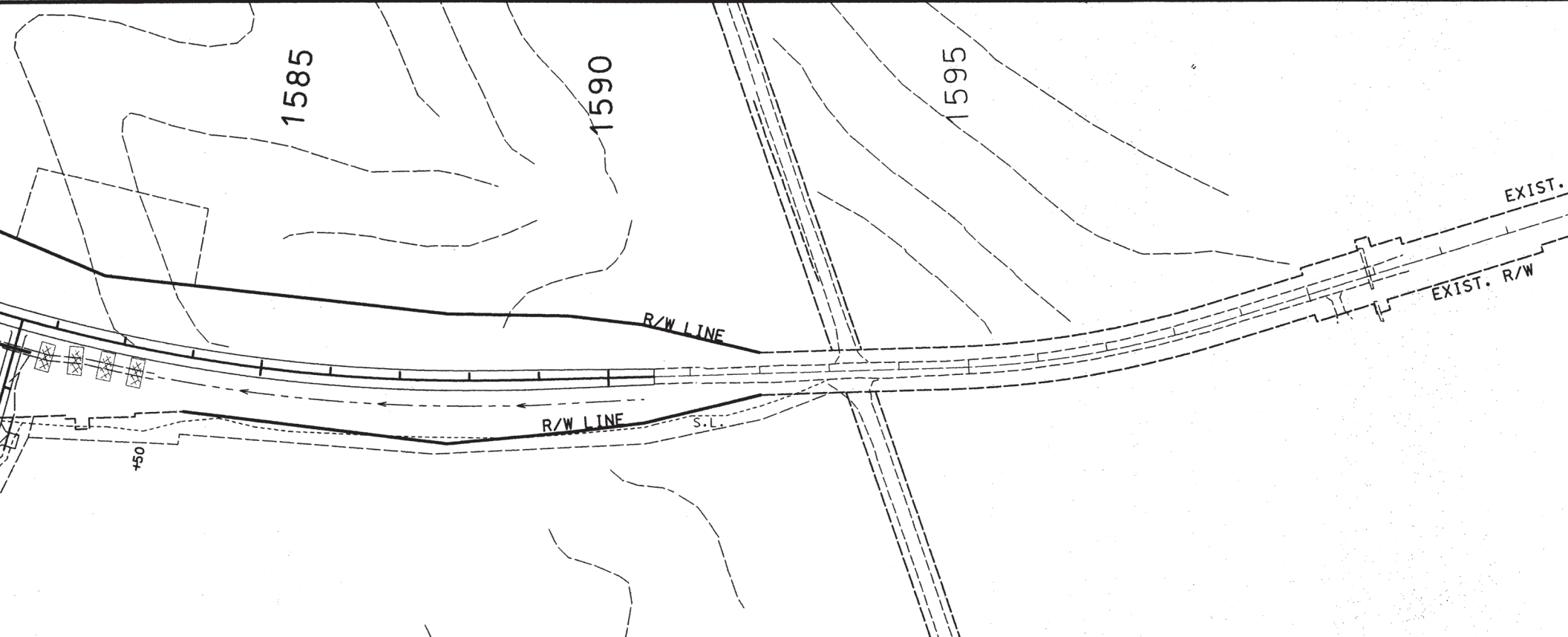
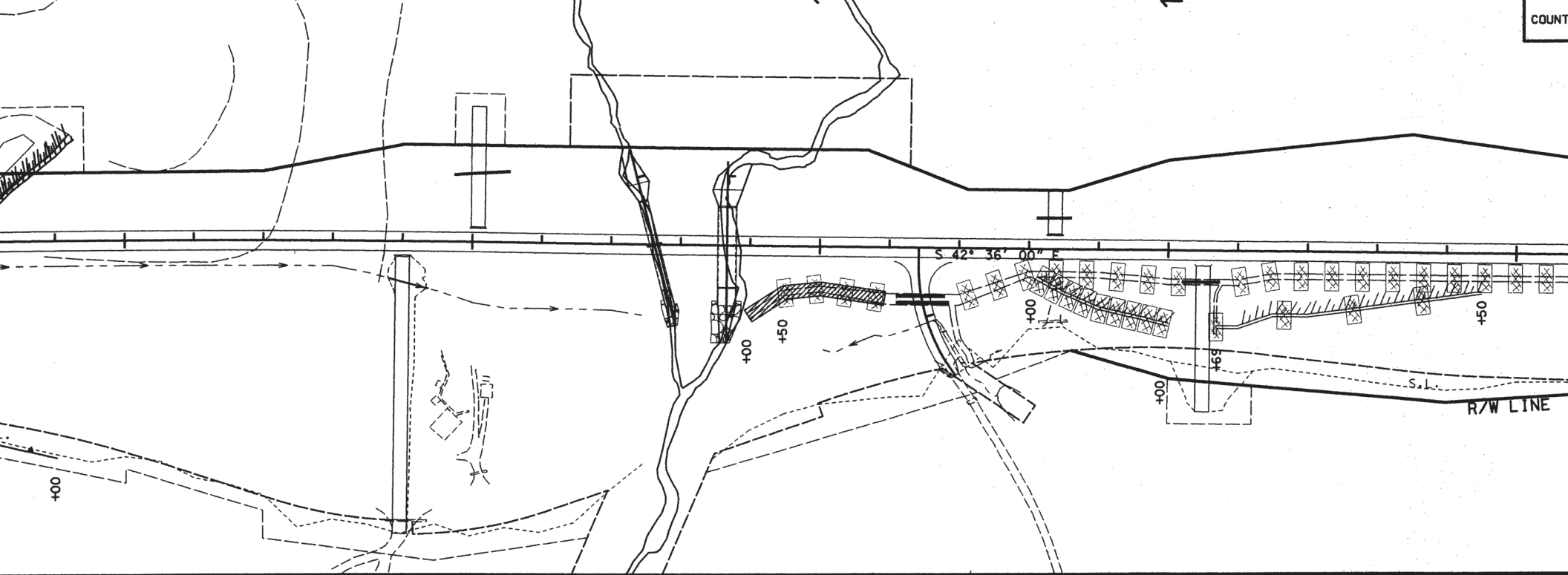
LEGEND	
	STRAW BALE
	DITCH CHECK
	SILT FENCE
	TEMPORARY BERM
	TEMPORARY PIPE
	SLOPE DRAIN
	SEDIMENT BASIN





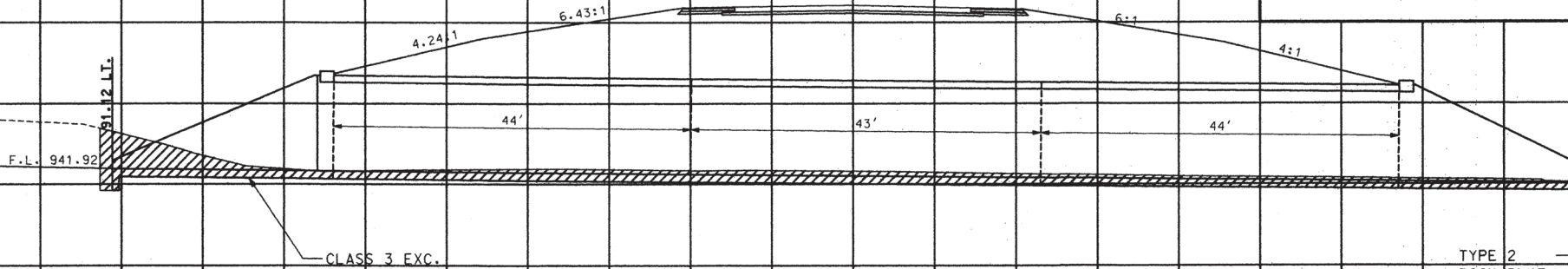






STA. 1562+62

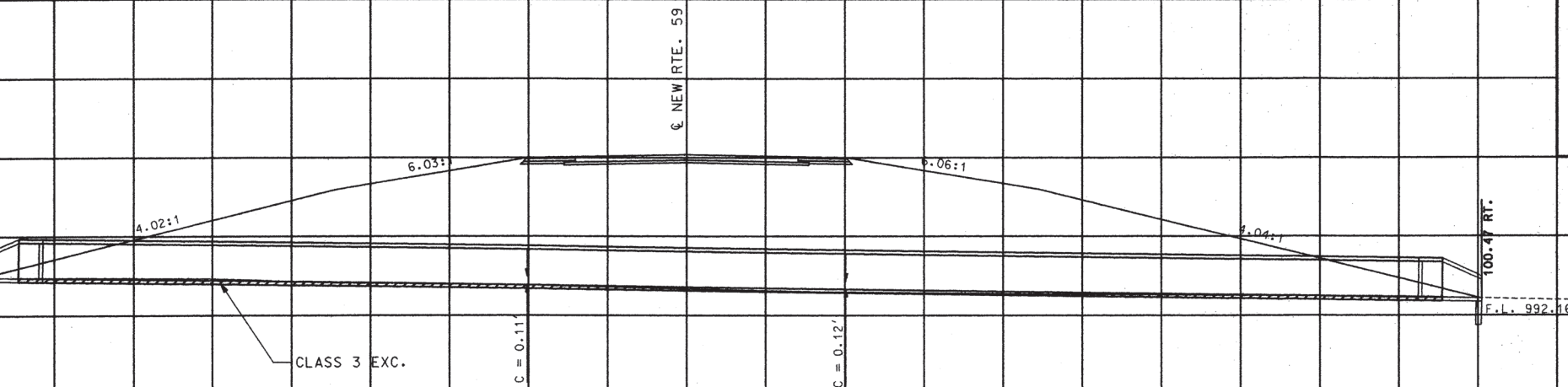
SKEW 15° RA
 BLD. 12' X 11' X 131' R
 WITH HDWLS. LT. & RT.
 CLASS B-1 CONCRETE = 25
 REINFORCING STEEL = 443
 CL. 3 EXC. = 405.8 CU.
 TYPE 2 ROCK BLKT. = 75.
 STANDARD 703.14B & 703.



TYPE 2
 ROCK BLKT.

STA. 1541+27

SKEW 7° RA
 BLD. 54" X 180' C
 WITH F.E.S. LT. &
 CL. 3 EXC. = 20.2
 ROCK LINING = 59.
 (STAGE 3)

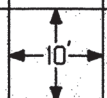


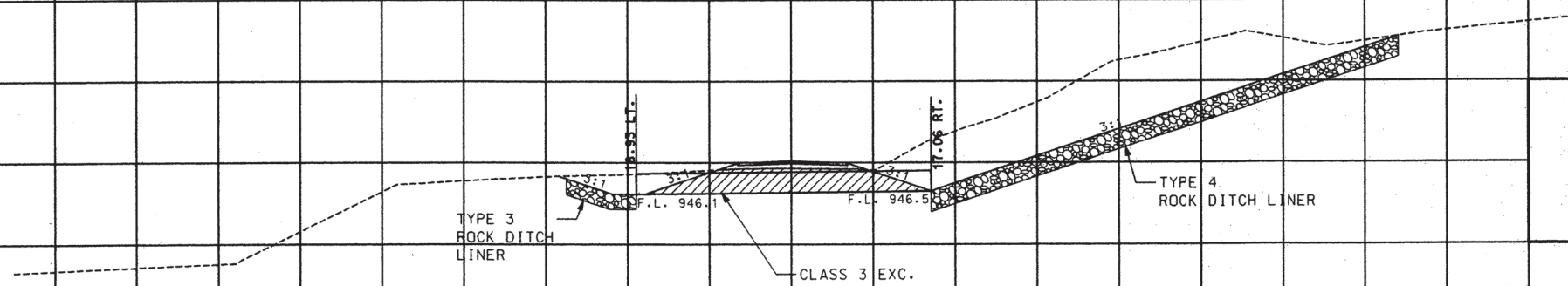
100.47 RT.

F.L. 992.16

C = 0.11

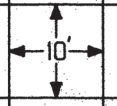
C = 0.12





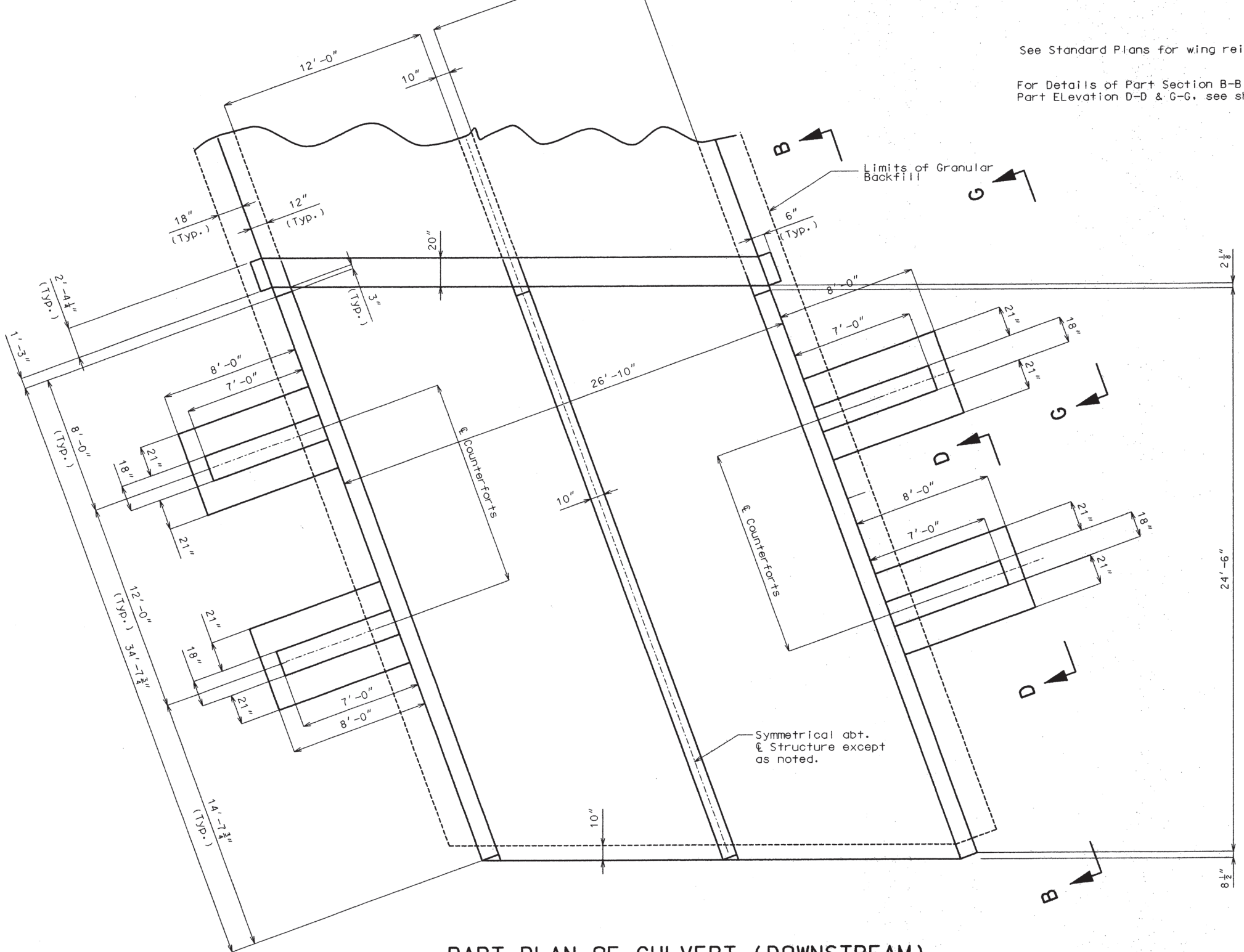
DRIVEWAY 15
STA. 2+90
RT. 2
BLD. 30" X 36' G
CL. 3 EXC. = 15.

0

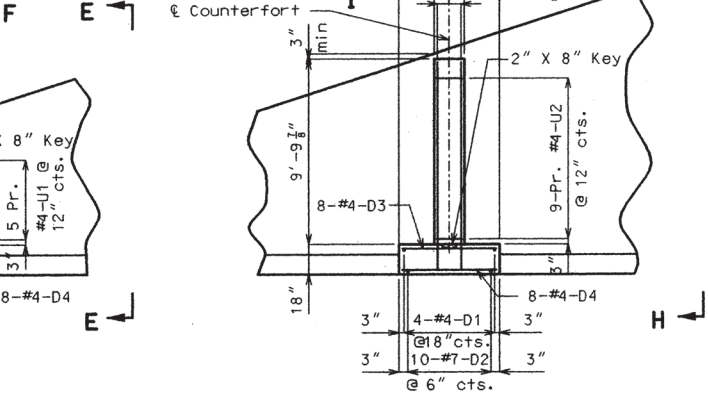


See Standard Plans for wing reinfor

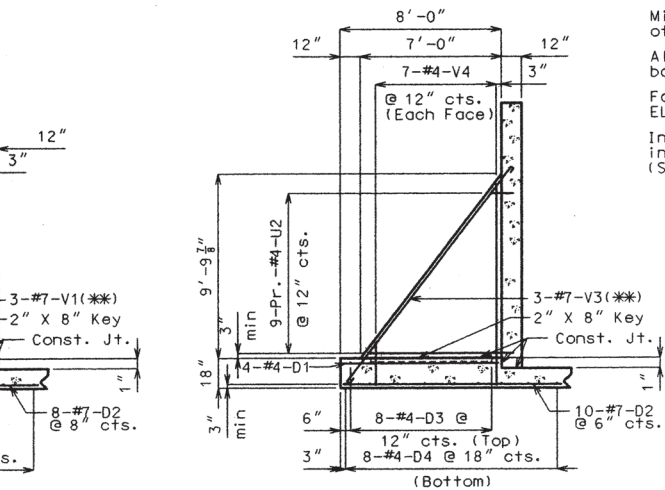
For Details of Part Section B-B and
Part Elevation D-D & G-G, see sheet



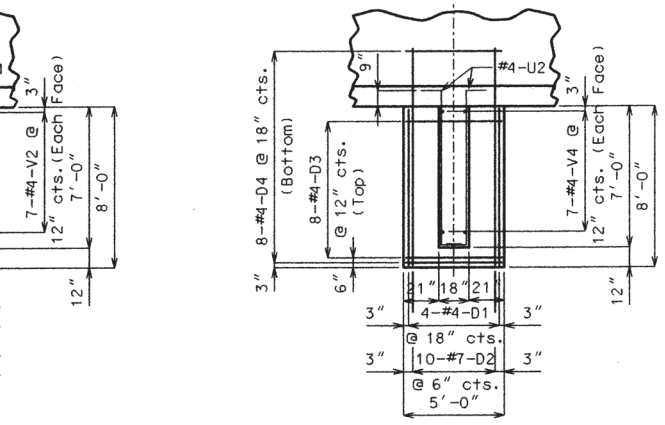
PART PLAN OF CULVERT (DOWNSTREAM)



PART ELEVATION G-G



SECTION H-H



PART PLAN I-I

Note:

Min. clearance to reinforcing steel shall be 1 1/2" unless otherwise shown.

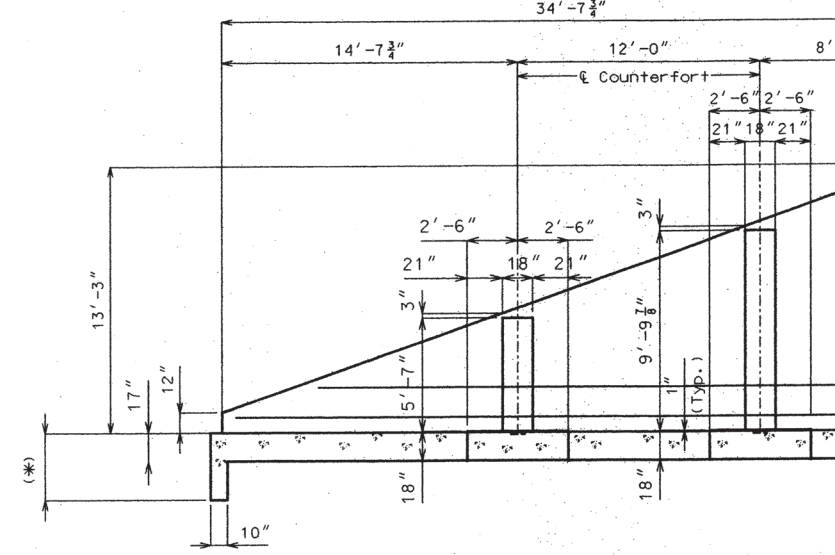
All reinforcement shown is in addition to standard double box reinforcement from Standard Plans.

For location of PART SECTION B-B, PART ELEVATION C-C, ELEVATION D-D and ELEVATION G-G see sheets No. 2 & 3.

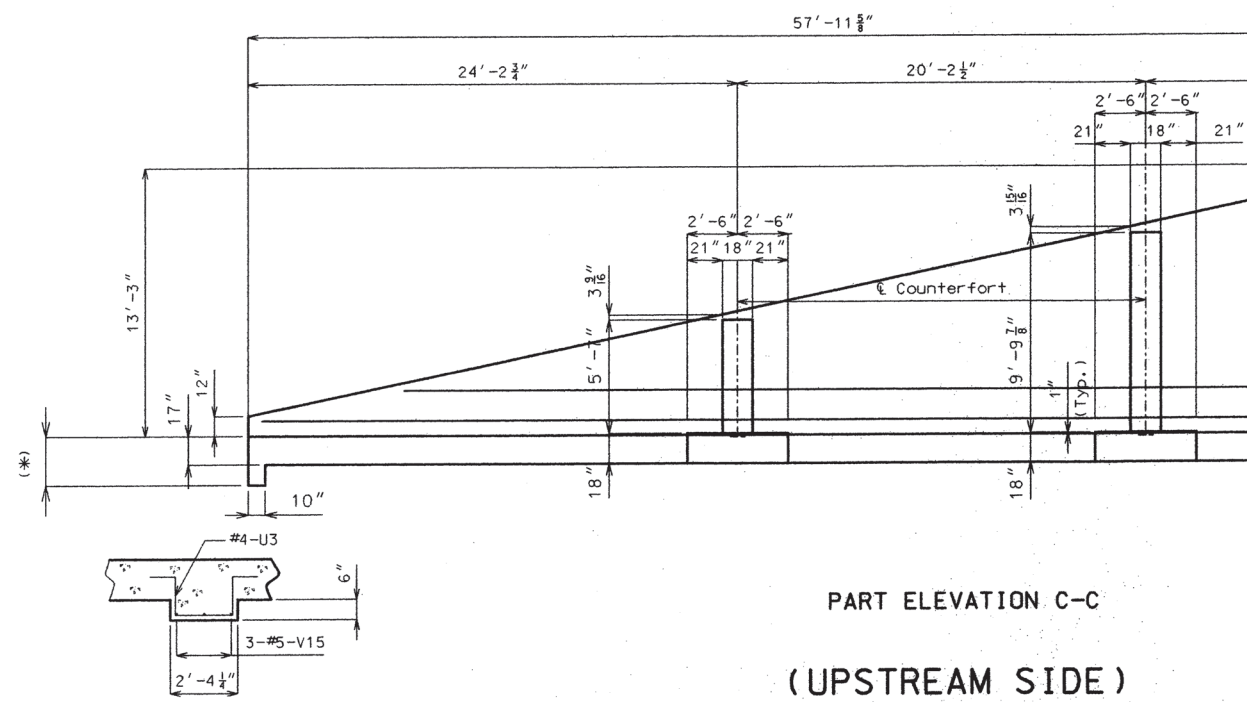
Interior wing is not shown. All reinforcing steel in interior wing is standard reinforcing steel, (Standard Plans).

(*) 2'-9" Upstream
3'-4" Downstream

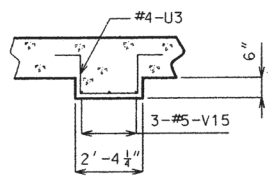
(**) Embed hooks to 1 1/2" clear inside face of wall and bottom of footing



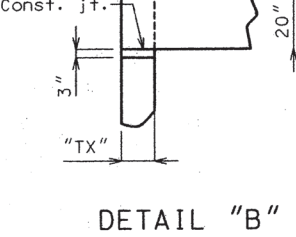
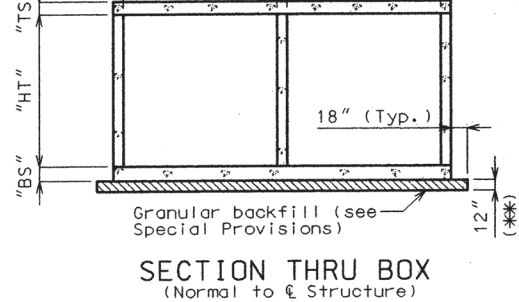
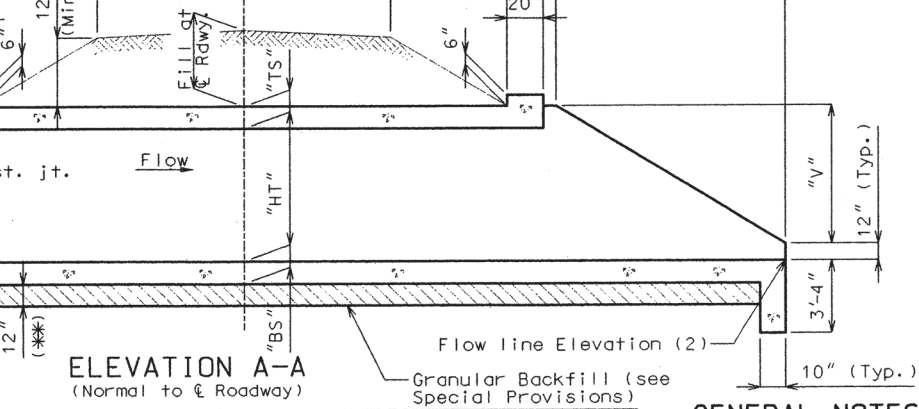
PART SECTION B-B
(DOWNSTREAM SIDE)



PART ELEVATION C-C
(UPSTREAM SIDE)



SECTION J-J



(*)Depth of granular backfill may vary. 12" used for estimating quantities.

GENERAL DATA TABLE

DIM.	VARIABLE	EQUATION	DIM.
12'-0"	"R"	$P(\cos 20^\circ)$	23'-10"
12'-0"	"U"	$(R + M)(\tan 20^\circ)$	8'-9 5/8"
11"	"V"	$HT + TS - 12"$	11'-11"
14"	"Y"	$TX(\sin 20^\circ)$	3 3/8"
10'	"KK"	$S + U + T1/2$	21'-2 5/8"
10'	Design Fill (*) 8.62		
20'-0"	Elev. (1) 940.59 feet		
34'-5"	Elev. (2) 939.02 feet		

GENERAL NOTES:

Design Specifications:
AASHTO - 1996 and Interims thru 1999
Load Factor Design

Design Unit Stresses:
Class B1 concrete $f'c = 4,000$ psi
Reinforcing steel (Grade 60),
 $fy = 60,000$ psi

Design Loading:
HS20-44
Earth 120 #/ft.³
Equivalent fluid pressure
30 #/ft.³ (Min.) - 60 #/ft.³ (Max.)

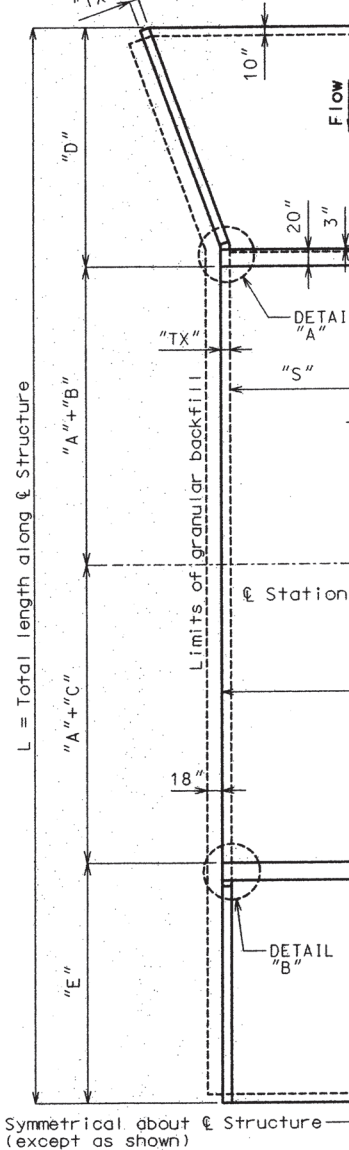
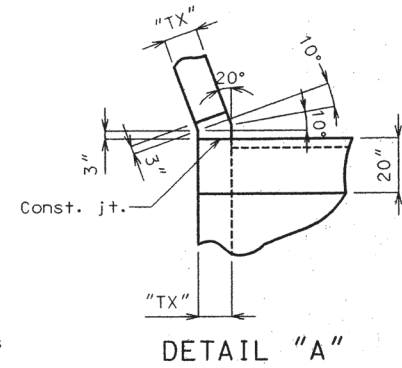
Dimensions:
All elevations shown are in feet unless otherwise noted.

Miscellaneous:
When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3'-2". Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans Drawing.

For design fill heights between values tabulated in the Missouri Standard Plans for Highway Construction, the design fill height is taken to the next increment requiring the higher design.

Traffic Control:
Use existing Bridge J-169 during construction.

Channel Cleanout:
Provide grading of the channel bottom within the limits of the R/W as needed for culvert flowline elevations and transition of the channel bed to the culvert opening. Taper channel banks to match end of culvert opening as required. (Roadway Item).



Symmetrical about Centerline Structure (except as shown)

(*)Design fill height is the distance from top of earth fill or roadway to the bottom of the top slab.

℄ Sta. = 1563+66.54
Pr. Gr. Elev. at ℄ Sta. = 960.42
Earth Fill at ℄ Rdwy. @ ℄ Station = 7.70'

BILL OF REINFORCING STEEL

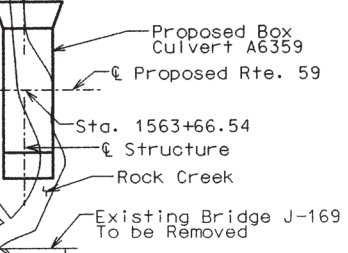
TOTALS ONLY		
Bar Size	Epoxy	Weight (lbs.)
4		9820
5		24,890
6		18,070
7		10,220
8		350
Total Weight		63,350

DATA

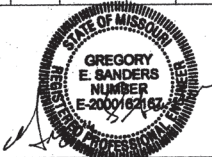
3.5 sq. miles
ft./sec. (100 years)
63 feet (100 years)
.90 feet
> 500 years

REINFORCEMENT TABLE

HS20-44 Design Fill(*) (ft)	Member Thickness				Top Slab Bars												Bottom Slab Bars			Wall Bars			Coefficients (see note)																					
	TS	BS	TX	TI	A1 Bars			J3 Bars			H1 Bars			H2 Bars			A2 Bars			J4 Bars			H3 Bars			B1 Bars			B2 Bars			F Bars			J4		H3		J3		H1		H2	
	Thick	Thick	Thick	Thick	size	c to c	size	c to c	size	c to c	size	c to c	size	c to c	size	c to c	size	c to c	size	c to c	size	c to c	size	c to c	G1	size	c to c	size	c to c	C4	K3	C7	O10	C1	K2	C5	O8	C6	O9					
8.62	11"	14"	10"	10"	5	6.75	6	6.75	7	14	7	14	5	6.75	6	7	7	6.75	5	11	0	5	9.75	4	13.75	.35	.95	.35	-	.36	.23	.42	-	.26	-	-	-	-	-	-				



Use Reinforcement Table shown as substitute for tables shown on Std. Plans 703.45.
Use Std. Plans 703.41, 703.42 and 703.45 for details not shown.
All dimensions are in inches unless otherwise noted.
Dimensions marked with C# or K# are the product of the coefficient and its associated multiplier.

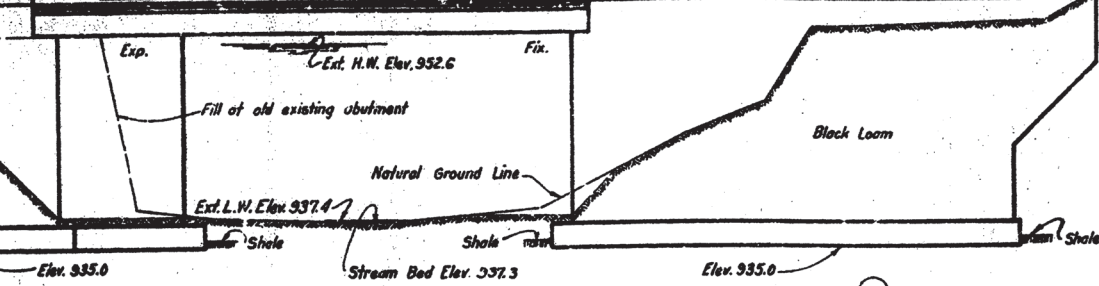


B.M. 1-97 ELEV.957.52 "O"
J-169 (ROCK CREEK) 275± R

BRIDGE OVER ROCK STATE ROAD FROM ABOUT 1.5 MILES PROJECT NO.

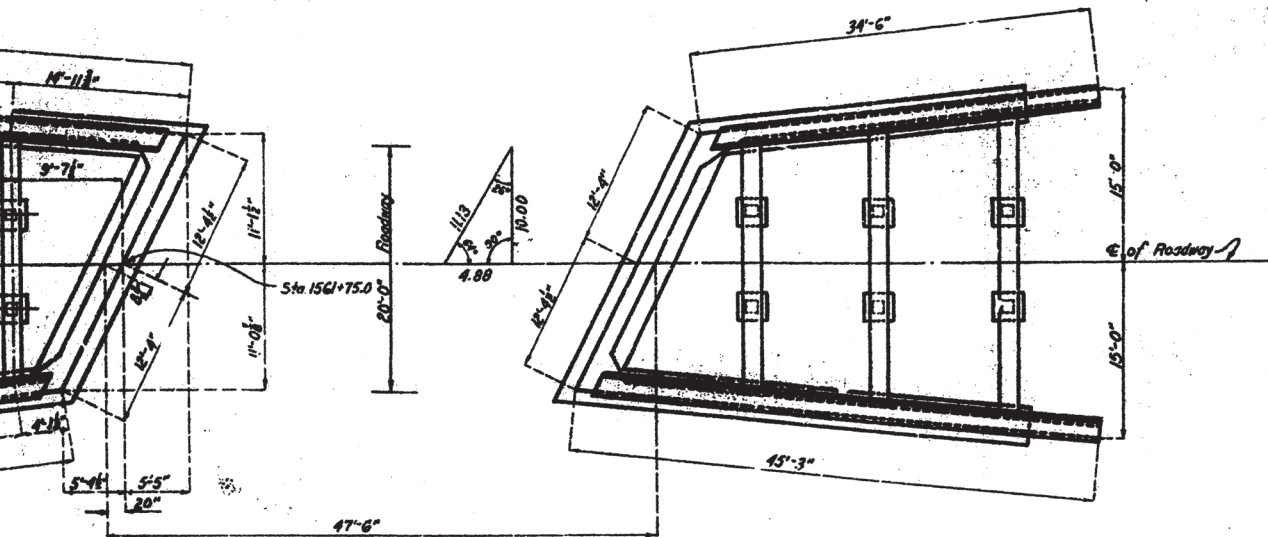
ESTIMATED QUANTITIES

	DATE 2-19-01	FINAL QUANTITIES
Removal of Bridges (J-169)	lump sum	1
Class 3 Excavation	cu. yard	680
Granular Backfill (Culverts Bridge)	cu. yard	187

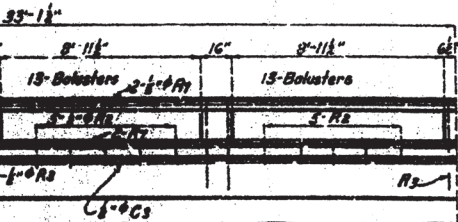


GENERAL ELEVATION

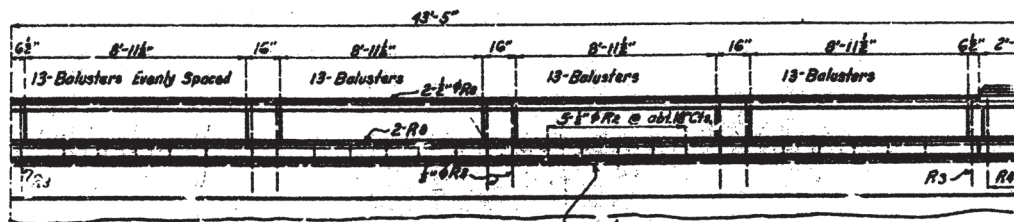
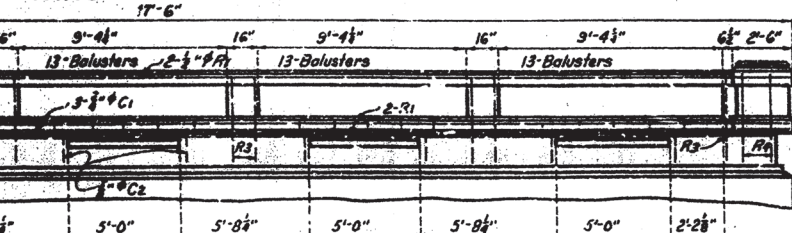
Note: Carry footings of least 2'-0" into firm undisturbed shale.



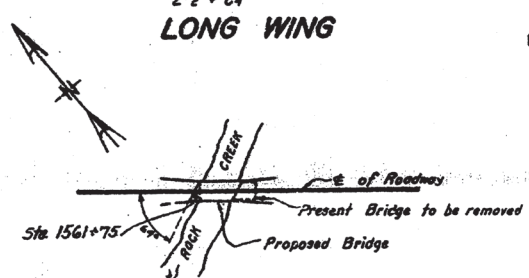
PLAN



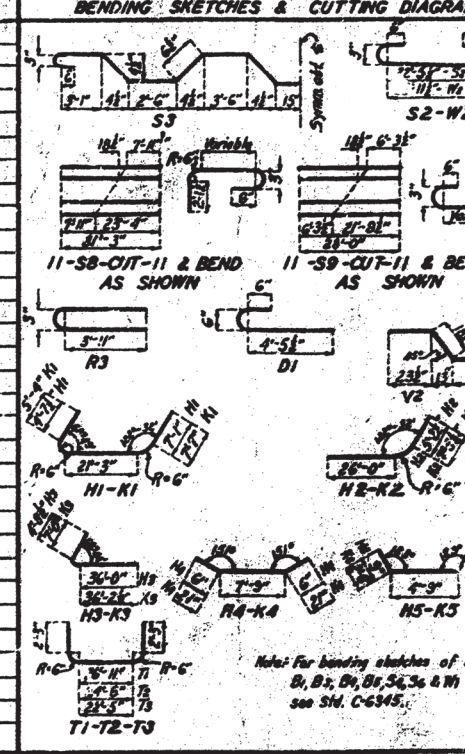
LEFT WING



LONG WING



No.	Size	Length	Mark	Location
Superstructure				
K	1'-0"	28'-6"	R1	Rail
40	1'-0"	5"	R2	Curb
16	1'-0"	8'-3"	R3	Subpost
16	1'-0"	4'-0"	R4	Post
116	1'-0"	18"	R5	Balusters
25	1'-0"	22'-9"	S1	Slab
25	1'-0"	24'-3"	S2	"
24	1'-0"	25'-3"	S3	"
6	1'-0"	26'-6"	S4	"
6	1'-0"	7'-0"	S5	"
12	1'-0"	6'-0"	S6	"
12	1'-0"	24'-0"	S7	"
11	1'-0"	31'-3"	S8	"
11	1'-0"	28'-0"	S9	"
12	1'-0"	25'-6"	C1	Curb
32	1'-0"	15"	C2	"
Substructure				
18	1'-0"	38'-0"	H1	Abut Wall
16	1'-0"	24'-0"	H2	"
20	1'-0"	49'-3"	H3	"
6	1'-0"	50'-3"	H4	"
12	1'-0"	50'-3"	H5	"
2	1'-0"	22'-6"	W1	Wab Wall
4	1'-0"	24'-9"	W2	"
Substructure				
18	1'-0"	38'-0"	H1	Abut Wall
16	1'-0"	24'-0"	H2	Ring Wall
18	1'-0"	41'-6"	H3	"



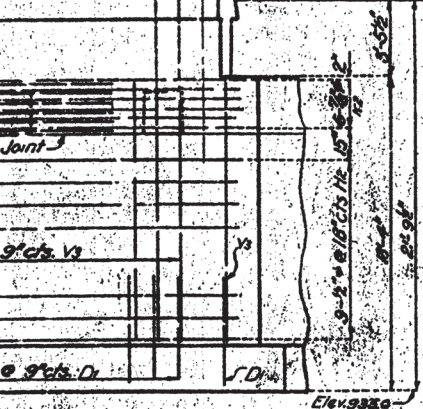
GENERAL NOTES:

Concrete in handrail to be 1:2:3 mix.
 Concrete in abut, curbs and girders in superstructure to be 1:2:3 mix.
 All other concrete to be 1:2:4 mix.
 Exposed edges shall be beveled 1/4" where no other bevel is noted.
 Where bituminous felt is used in expansion or partition joints in cast-in-place concrete, it shall be applied to one face of concrete in vertical joints accurately to one face of concrete in horizontal joints.
 Two name plates type "A" as shown on Std. S-610 to be furnished.
 Cost of name plates to be included in price bid for other items.
 Top of concrete in both wings and front wall of abutments to be at same level throughout pouring.
 Shop drawings for the fabricating of bearing plates and bolts will be furnished by the Missouri State Highway Department.
 No permanent camber desired in finished girders.
 Any construction camber remaining in girders to be taken out in by thickening floor over supports.

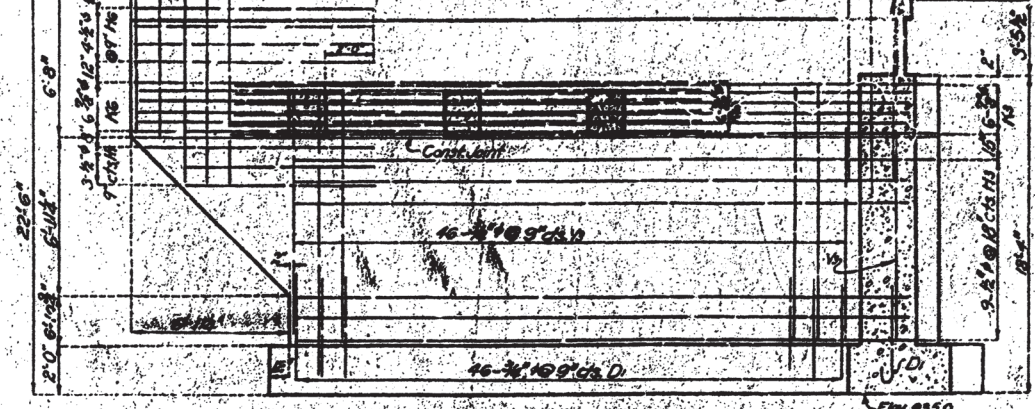
ESTIMATE	
Item	
Excavation	
Concrete 1:2:3 mix.	
Concrete 1:2:3 1/2 mix.	
Concrete 1:2:4 mix.	
Reinforcing Steel	

BEARING PLATES AND BOLTS REQUIRED Note: Weight of bearing plates
 16 - Plates - 8" x 8" x 20" - Plane to 1/2" thickness.
 16 - 3/4" Bolts 12" long - Sq Nuts - Csk. Nuts.
 16 - 1/2" Bolts 12" long - No threads or Nuts.
 4 - Copper Plates 8" x 20" - 16 Gaug.
 16 - 3/8" Bolts 18" long - Soft Iron.
 Note: Above list of bearing plates and bolts is complete, plates and bolts listed on Std. C-6345 not to be ordered.

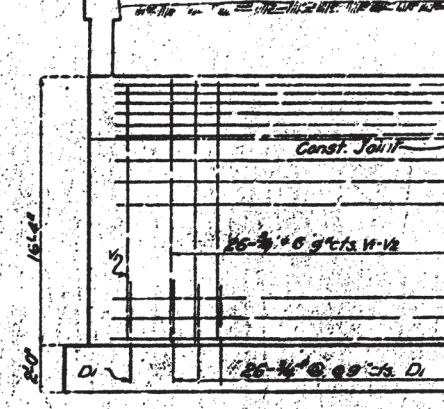
B.M. Elev. 933.56
BRIDGE
 STATE ROAD
 ABOUT 5
 PROJECT NO.
HOLT



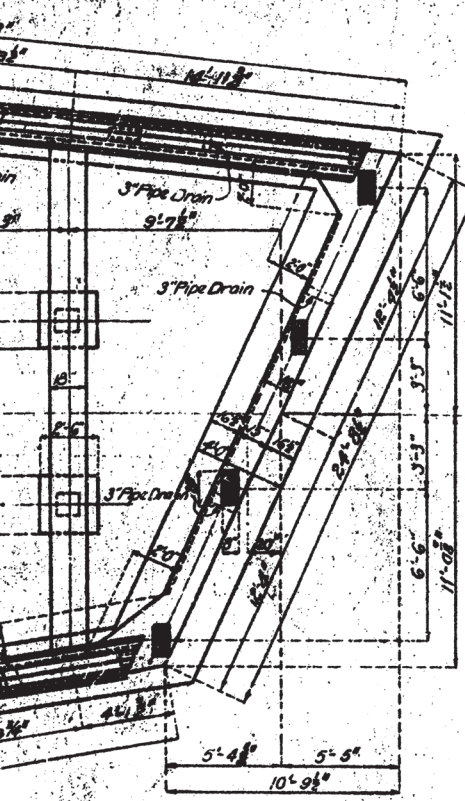
ELEVATION - SHORT WING



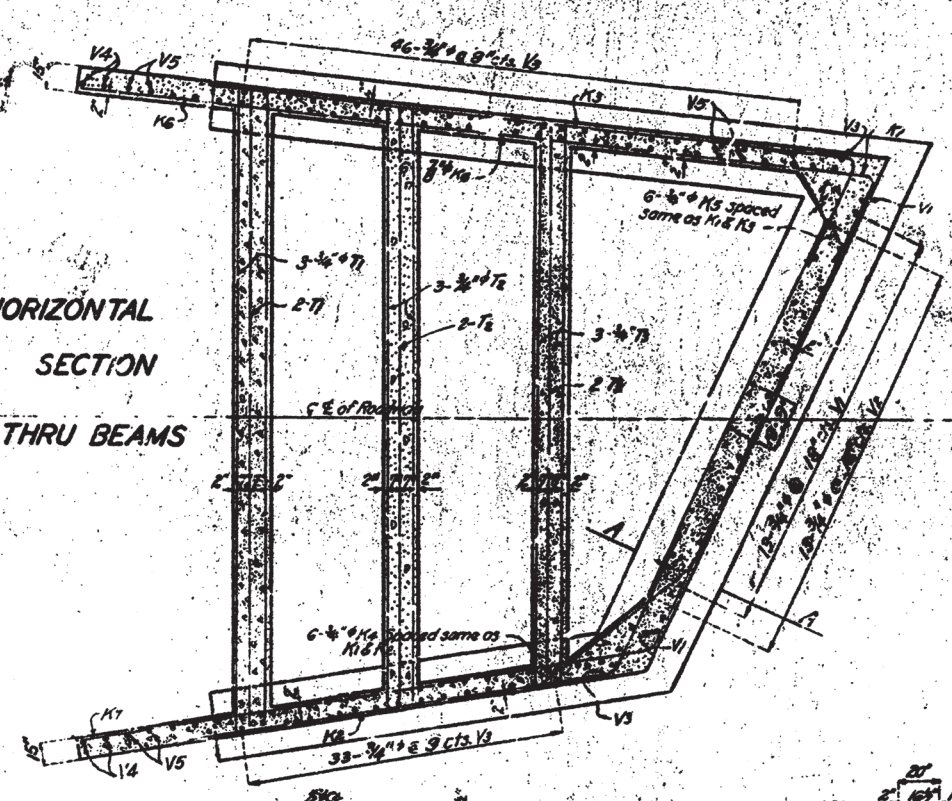
ELEVATION - LONG WING



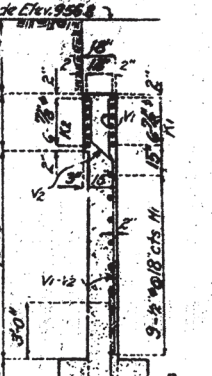
ELEVATION - FRONT



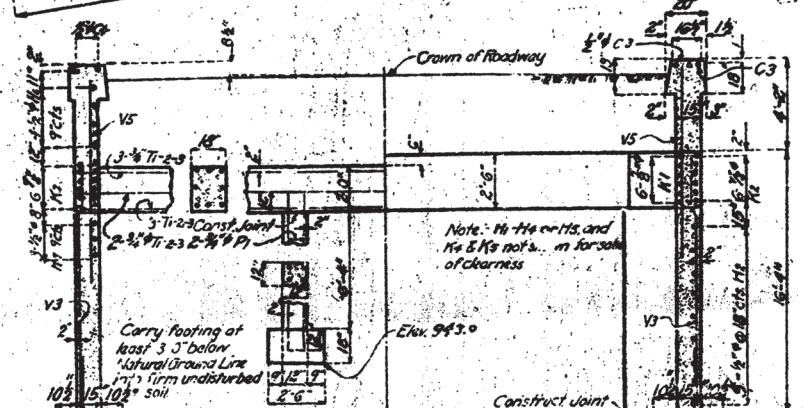
HORIZONTAL SECTION THRU BEAMS



HORIZONTAL SECTION BELOW BEAMS



Note: This drawing is not to scale. Follow dimensions.

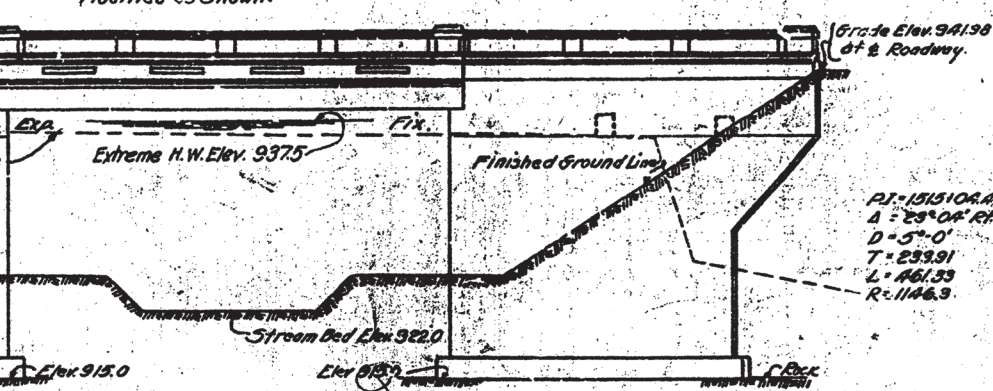


Note: 16' Hs on 11's and 16' S Hs not shown for sake of clearness

FOR INFORMATION ONLY

BRIDGE OVER STATE ROAD FROM ABOUT 3 MILES EAST PROJECT NO. R1-S16

HOLT
SUBMITTED BY: *[Signature]*

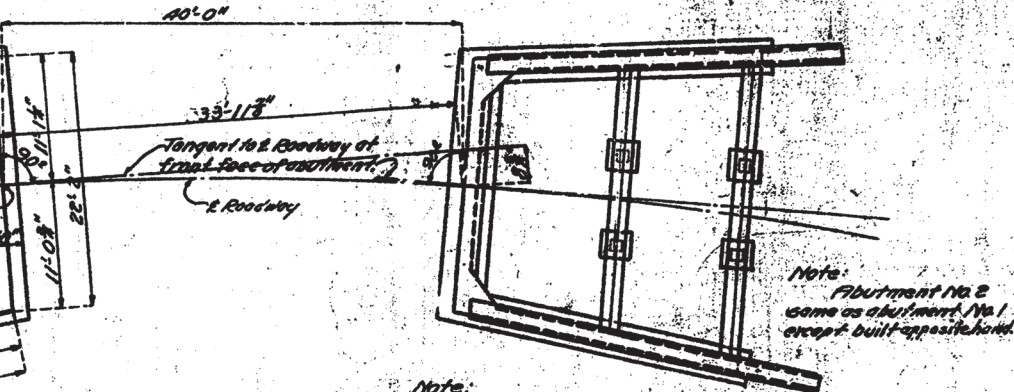


16 plates 15"x8"x17" placed 2" thickness.
 4 Plates 15"x17" - No. 16 gauge copper.
 16 Bolts 5/8"x16" long 3/4" dia. no threads or nuts.
 16 Bolts 3/4"x16" long Cx. Hds. 3/4" dia.
 16 Bolts 3/4"x16" long soft iron.
 Above list of bearing plates and bolts is complete.
 Plates and bolts listed on standard C 6340 not to be ordered.

PI = 151510 A.R.
 A = 23° 04' Rl.
 D = 5° 0'
 T = 233.91
 L = 461.33
 R = 1146.3

GENERAL ELEVATION

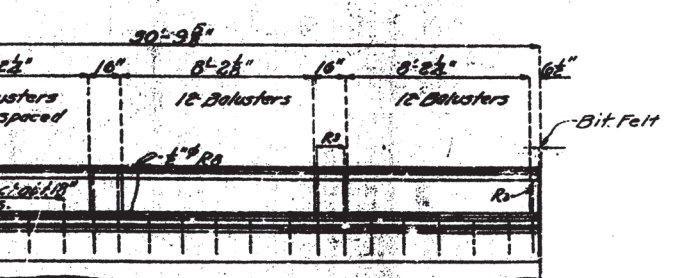
Note: Channel to be opened above and below site as shown on Road Plans.



PLAN

Note: Abutment No. 2 same as abutment No. 1 except built apparatus hand.

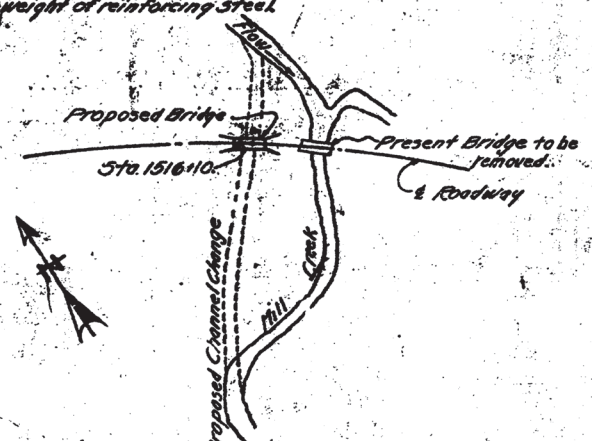
Note: Curve formulas based on 100' chords cannot be used in locating abutments.



ELEVATION OF ABUTMENT HANDRAIL

ESTIMATED QUANTITIES				
ITEM		SUBSTR.	SURSTR.	TOTAL
Excavation	Cu.Yds.	595		595
Concrete 1:2:3 mix	Cu.Yds.		10.6	10.6
Concrete 1:2:3 1/2 mix	Cu.Yds.		53.5	53.5
Concrete 1:2:4 mix	Cu.Yds.	245.8		245.8
Reinforcing Steel	Lbs.	22030	12570	34600

Weight of bearing plates and bolts for deck girder span is included in weight of reinforcing steel.



LOCATION SKETCH

GENERAL NOTES:-

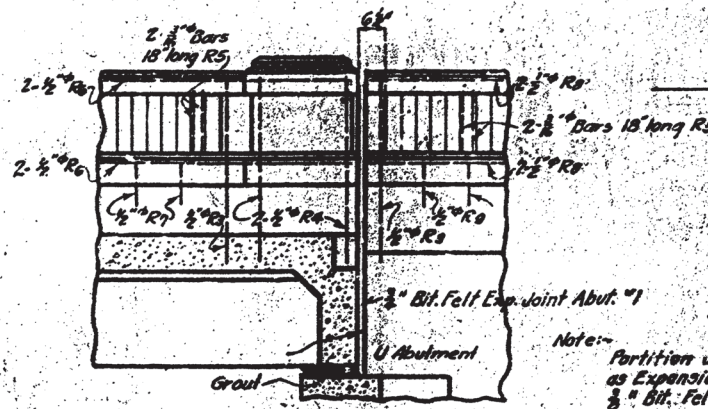
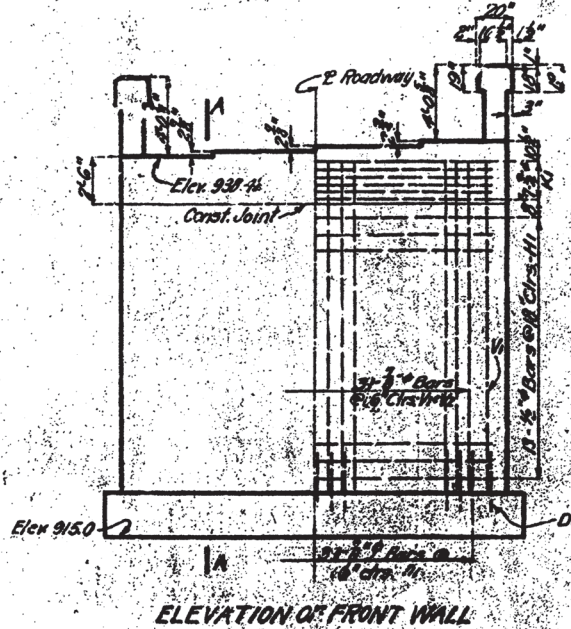
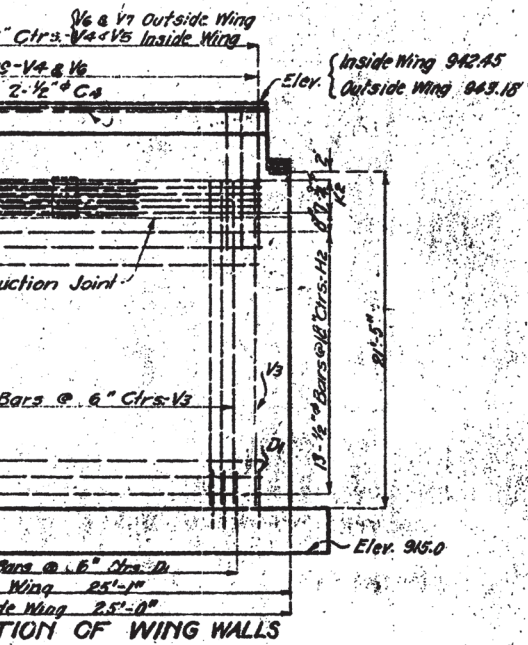
Concrete in handrail to be 1:2:3 mix.
 Concrete in slab, girders and curbs on girder span to be 1:2:3 1/2 mix.
 All other concrete to be 1:2:4 mix.
 Exposed edges to be dressed & where no other detail is noted.
 Shop drawings for the fabricating of bearing plates and bolts will be furnished by the Missouri State Highway Department.
 No permanent cam-bolts used in finished girders.
 Any construction timber remaining in girders to be taken out in floor slab by thickening floor over supports.
 Top of concrete in both wings and front wall of abutments to be kept at same level throughout pouring.
 Where bituminous felt is used in expansion or partition joints in concrete, strip felt in vertical joint securely to one face of concrete with Cu. per wire.
 Two name plates type 'R' as shown on Std. S-818 to be furnished and placed by contractor. Cost of name plates to be included in price bid for other items.
 Omit drains as shown on Std. C-6340.

NO.	SIZE	LENGTH	MARK	LOCATION
SUBSTRUCTURE				
8	2"	30'-6"	Ce	Curb
24	4"	8'-3"	R2	Subpost
16	4"	4'-0"	R2	Post
576	7/8"	18"	R2	Baluster
16	2"	30'-6"	R2	Rail
60	2"	15"	R2	"
242	2"	6'-0"	D2	Footing
26	2"	30'-0"	W2	Front Wall
62	2"	23'-3"	W2	Wing Wall
32	2"	7'-0"	H2	Rounch
24	2"	10'-6"	H2	Wing Wall
12	2"	8'-6"	H2	"
16	2"	31'-3"	K2	Front Wall
28	2"	31'-0"	K2	Wing "
28	2"	10'-0"	K2	Rounch
28	2"	31'-3"	K2	Wing Wall
SUPERSTRUCTURE				
2	2"	22'-3"	C2	Curb
6	2"	22'-0"	C2	"
16	2"	18"	C2	"
8	2"	22'-3"	R1	Rail
20	2"	22'-0"	R2	"
16	2"	8'-3"	R2	Sub Post
16	2"	2'-0"	R2	Post
324	7/8"	18"	R2	Baluster
8	2"	22'-0"	R2	Rail
20	2"	9"	R2	"
20	2"	22'-0"	S1	Slab
22	2"	22'-3"	S2	"
27	2"	21'-3"	S2	"
8	2"	22'-0"	S2	"
8	2"	7'-0"	S2	"
12	2"	6'-0"	S2	"
172	2"	21'-6"	S1	Slab
16	2"	21'-6"	D2	"
8	1 1/2"	22'-3"	R2	"
8	1 1/2"	22'-0"	R2	"
8	1 1/2"	22'-0"	DE	"
8	1 1/2"	22'-0"	DE	"
6	2"	22'-3"	W1	Web Wall

Above bill of reinforcing steel is complete.
 Dimensions of bars are given along.
 See Std. C 6340 for bending sketches.

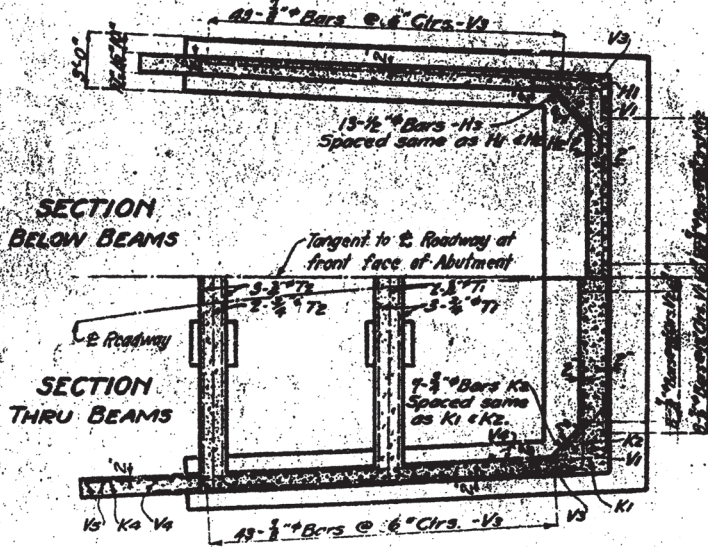
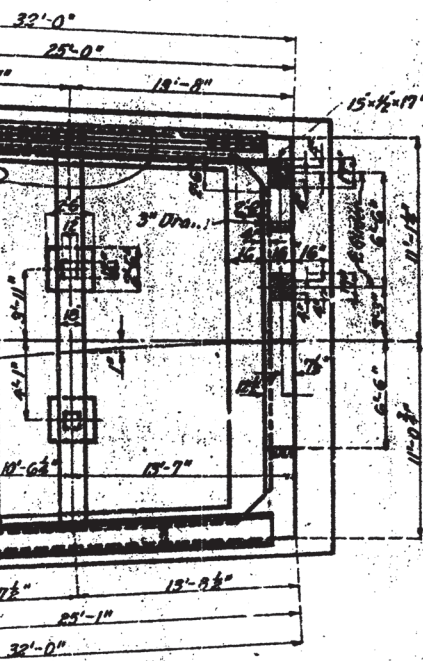
BIT. Elev. 936.57 'x' in S.W. wing wall

BRIDGE OVER
 STATE ROAD FR
 ABOUT 4 MILES
 PROJECT NO. R1
HOLT

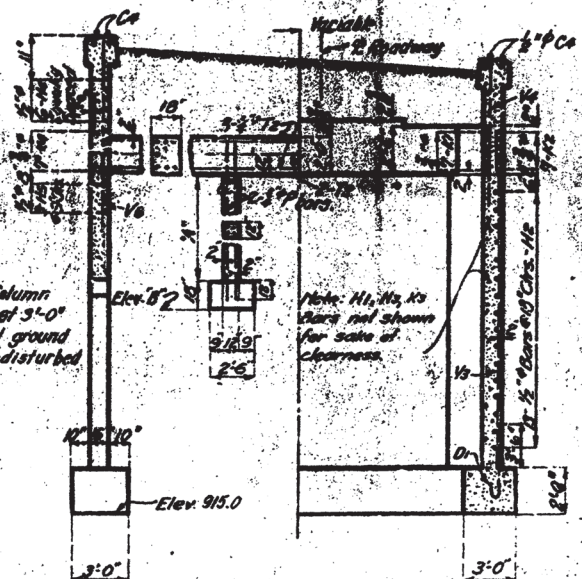


SECTION THRU ABUTMENT SHOWING RAIL EXPANSION JOINT

Note:- Partition wall as Expansion Joint Abut. 3\"/>



Note:- Carry Column footing at least 3'-0\"/>



BACK OF TIE BEAMS - BACK OF FRONT WALL SECTION THRU WING WALLS

DATA FOR TIE BEAM COLUMNS			
	Elev. 5'	Dimen. 2'	Bar Mark
All Cols. Abut. No. 1	942.5	11"	P1
Front Cols. Abut. No. 2	943.5	2-11"	P2
Back Cols. Abut. No. 2	950.0	11-5"	P2

BRIDGE OVER STATE ROAD FROM ABOUT 4 MILES EAST PROJECT NO. R-51

DESCRIPTION
EMBANKMENT
(2 SHEETS)
NETWORK AND SECTION DATA
ON SPIRALS AND WIDENING (UNDIVIDED HIGHWAY)
ON SPIRALS AND WIDENING (DIVIDED HIGHWAY) *
OUTS
LS-RAMPS FOR INTERCHANGES (OTHER THAN 6:1 FORESLOPE)
LS-RAMPS FOR INTERCHANGES (6:1 FORESLOPE)
AN OPENINGS (DIVIDED HIGHWAYS)
E I *
E II *
E III
E IV *
E V
CONTROL MEASURING DEVICES
E MEASURING DEVICES
EMENT AND BASE APPURTENANCES (2 SHEETS)
EMENT & BASE APPURTENANCES FOR 15 FT. JOINT SPACING
TING UNITS
ROACH PAVEMENT (2 SHEETS)
AND DRAIN MARKERS *
ERENCE SYSTEM MONUMENT
HEADWALLS - TYPE S
HEADWALL-WITH ENERGY DISSIPATOR - 18"
HEADWALL-WITH ENERGY DISSIPATOR - 24"
HEADWALL-WITH ENERGY DISSIPATOR - 30"
HEADWALL-WITH ENERGY DISSIPATOR - 36"
HEADWALL-WITH ENERGY DISSIPATOR - 42"
HEADWALL-WITH ENERGY DISSIPATOR - 48"
TYPE B
TYPE C
TYPE D
TYPE E
TYPE EE
TYPE F
TYPE G
TYPE S (3 SHEETS)
TYPE T (ALSO INCLUDE 614.30)
TYPE X
HOLES (ALSO INCLUDE 614.30)
N (2 SHEETS)
ERDRAINAGE (2 SHEETS)*
D SHEETS)
RDRAIL SYSTEM (13 SHEETS) *
R SECTION (SAFETY BARRIER CURB ON BRIDGE)
E 606.00) (2 SHEETS)
R SECTION (THREE BEAM RAIL ON BRIDGE) *
E 606.00) (2 SHEETS)
TION (ALSO INCLUDE 606.00)
- ONE STRAND
- THREE STRAND (4 SHEETS) *
ENCE
ENCE FOR RETAINING WALLS

NO.	DESCRIPTION
608.00F	PAVED APPROACHES (2 SHEETS)*
608.10J	CONCRETE SIDEWALK AND CURB RAMPS (2 SHEETS)
608.20D	CONCRETE STEPS
✓ 609.00K	CONCRETE CURB - CURB AND GUTTER - GUTTER *
609.15C	PAVED DITCHES
609.40K	DRAIN BASIN, SHOULDER PAVING AND FILL SLOPES AT BRIDGE ENDS (2 SHEETS)*
✓ 609.60C	ROCK DITCH LINER
✓ 609.70C	ROCK LINING FOR CULVERT OUTLETS
610.20E	BRICK MANHOLES (2 SHEETS) (ALSO INCLUDE 614.30)
611.60N	CONCRETE SLOPE PROTECTION
612.10N	BARRICADES *
612.20A	SAND FILLED IMPACT ATTENUATORS
613.00H	PAVEMENT REPAIR (2 SHEETS) *
614.10S	CURB INLETS, GRATES AND BEARING PLATES
614.11A	CURVED VANE GRATE AND FRAME
614.30E	MANHOLE FRAMES AND COVERS
615.00A	OFFICE FOR ENGINEER
✓ 616.10Z	TRAFFIC CONTROL DEVICES (5 SHEETS) (ALSO INCLUDE 903.01) *
617.00AD	CONCRETE TRAFFIC BARRIER - TYPE A & B (2 SHEETS)*
617.10A	CONCRETE TRAFFIC BARRIER - TYPE C
617.20	CONCRETE TRAFFIC BARRIER - TYPE D
619.10B	PAVEMENT EDGE TREATMENT
✓ 620.00A	PAVEMENT MARKING
625.00	HOLE PATTERN FOR PAVEMENT SLAB STABILIZATION
✓ 626.00A	RUMBLE STRIPS
702.02E	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)*
703.10C	CONCRETE SINGLE BOX STRUCTURE (STRAIGHT WINGS-SQUARE)(3 SHEETS) (ALSO INCLUDE 706.35) *
703.11C	CONCRETE SINGLE BOX STRUCTURE (FLARED WINGS-SQUARE)(3 SHEETS) (ALSO INCLUDE 706.35) *
703.12C	CONCRETE SINGLE BOX STRUCTURE (CUT SECTIONS)*
703.13C	CONCRETE SINGLE BOX STRUCTURE (STRAIGHT WINGS-SKEWED)(3 SHEETS) (ALSO INCLUDE 706.35) *
✓ 703.14C	CONCRETE SINGLE BOX STRUCTURE (FLARED WINGS-SKEWED)(3 SHEETS) (ALSO INCLUDE 706.35) *
✓ 703.15B	CONCRETE SINGLE BOX STRUCTURE (MEMBER SIZES AND REINFORCEMENTS) (13 SHEETS) (ALSO INCLUDE 706.35) *
✓ 703.37B	CONCRETE BOX CULVERTS (EXTERIOR WING REINFORCEMENTS)(2 SHEETS) (ALSO INCLUDE 706.35)
703.38A	CONCRETE BOX CULVERTS (CUTTING DETAILS)(2 SHEETS)(ALSO INCLUDE 706.35)
703.40C	CONCRETE DOUBLE BOX STRUCTURE (STRAIGHT WINGS-SQUARE)(2 SHEETS) (ALSO INCLUDE 706.35) *
✓ 703.41C	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS-SQUARE)(2 SHEETS) (ALSO INCLUDE 706.35) *
✓ 703.42C	CONCRETE DOUBLE BOX STRUCTURE (CUT SECTIONS)(2 SHEETS) (ALSO INCLUDE 706.35) *
703.43C	CONCRETE DOUBLE BOX STRUCTURE (STRAIGHT WINGS-SKEWED)(2 SHEETS) (ALSO INCLUDE 706.35) *
✓ 703.44C	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS-SKEWED)(2 SHEETS) (ALSO INCLUDE 706.35) *
✓ 703.45A	CONCRETE DOUBLE BOX STRUCTURE (MEMBER SIZES AND REINFORCEMENT) (13 SHEETS) (ALSO INCLUDE 706.35) *
✓ 703.60E	CONCRETE BOX STRUCTURE - PIPE INLET
703.80C	CONCRETE TRIPLE BOX STRUCTURE (STRAIGHT WINGS-SQUARE)(2 SHEETS) (ALSO INCLUDE 706.35) *
703.81C	CONCRETE TRIPLE BOX STRUCTURE (FLARED WINGS-SQUARED)(2 SHEETS) (ALSO INCLUDE 706.35) *
703.82C	CONCRETE TRIPLE BOX STRUCTURE (CUT SECTIONS)(2 SHEETS) (ALSO INCLUDE 706.35) *
703.83C	CONCRETE TRIPLE BOX STRUCTURE (STRAIGHT WINGS-SKEWED)(2 SHEETS) (ALSO INCLUDE 706.35) *
703.84C	CONCRETE TRIPLE BOX STRUCTURE (FLARED WINGS-SKEWED)(2 SHEETS) (ALSO INCLUDE 706.35) *

NO.	DESCRIPTION
703.85A	CONCRETE TRIPLE BOX STRUCTURE (13 SHEETS) (ALSO INCLUDE 706.35) *
✓ 706.35G	BAR SUPPORTS FOR CONCRETE
712.40H	STEEL DAMS AT EXPANSION JOINTS
725.00	CORRUGATED METAL PIPE INSETS
725.31C	METAL CURTAIN WALL AND METAL PANELS
✓ 726.30E	CULVERT INSTALLATION METHODS
730.00A	CORRUGATED POLYETHYLENE PIPE
731.00T	PRECAST MANHOLES (ALSO INCLUDE 614.30)
731.10P	PRECAST DROP INLETS (4 SHEETS)
✓ 732.00M	FLARED END SECTION (2 SHEETS)
732.05C	BEVELED PIPE END TREATMENT
732.10D	SAFETY SLOPE END SECTIONS
806.02A	STAPLE PLACEMENT FOR PLASTER
✓ 806.10D	TEMPORARY EROSION CONTROL
901.00T	POLES, FOUNDATIONS & APPURTENANCES
901.01Z	POLES, FOUNDATIONS & APPURTENANCES
901.02A	CABLE, CONDUIT AND TRENCH
901.30D	BASE MOUNTED CONTROL STATION
901.80C	POWER SUPPLY ASSEMBLY - SIGNAL
902.00J	SIGNAL HEADS - LENSES - MOUNTING
902.10M	CONTROLLERS, CONDUIT LOCALIZATION
902.15H	POWER SUPPLY ASSEMBLY (2 SHEETS)
902.20A	PULL BOXES
902.21C	TELEPHONE INTERCONNECT
902.30N	POST BASES (2 SHEETS)
902.40L	TUBULAR STEEL POSTS (2 SHEETS)
902.50I	DETECTORS
902.70J	SPAN WIRE DETAILS (2 SHEETS)
902.80D	TRAFFIC SIGNAL SYMBOLS
✓ 903.01G	SPECIAL SIGNING CHARACTERISTICS
903.02AD	HIGHWAY SIGNING (10 SHEETS)
903.03AU	SIGN MOUNTING DETAILS (6 SHEETS)
903.04E	WEIGH STATION SIGNING
903.05F	TUBULAR SUPPORT STEEL - TUBULAR
903.06F	TUBULAR SUPPORT STEEL - TUBULAR
903.07F	TUBULAR SUPPORT STEEL - TUBULAR
903.08E	TUBULAR SUPPORT STEEL - TUBULAR
903.09D	SIGN LIGHTING - LIGHTING
903.10X	OVERHEAD SIGN TRUSSES - ALUMINUM
903.12S	OVERHEAD SIGN TRUSSES-BUTTERFLY
	(5 SHEETS) (ALSO INCLUDE 903.03)
903.60X	OVERHEAD SIGN TRUSSES-STRUTTED

NOTES:

PLANS FOR THIS PROJECT WERE DEVELOPED BY THE CONSULTING ENGINEER.

* - REVISED -- SEE DRAWING FOR EFFECTIVE DATE.