COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R1

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

PLANS OF PROPOSED PROJECT
SOMERSET NORTHERN BYPASS

DATE	NO. SETS	
		RECORD PLANS
		CONSTRUCTION PLANS

REVIEWED BY _____ DIVISION OF CONSTRUCTION

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2 - R2L	TYPICAL SECTIONS-SUMMARY OF QUANTITIES
R3 - R68	PLAN AND PROFILE SHEETS
R69 - R72	RIGHT OF WAY SUMMARY SHEETS
R73 - R77	RIGHT OF WAY STRIP MAP SHEETS
R78 - R81	COORDINATE CONTROL SHEETS
R82 - R102	EROSION CONTROL SHEETS
R103 - R109	MAINTENANCE OF TRAFFIC SHEETS
R110 - R150	GEOTECH SHEETS
R151 - R180	PIPE DRAINAGE SHEETS
X1 - X483	CROSS SECTION SHEETS

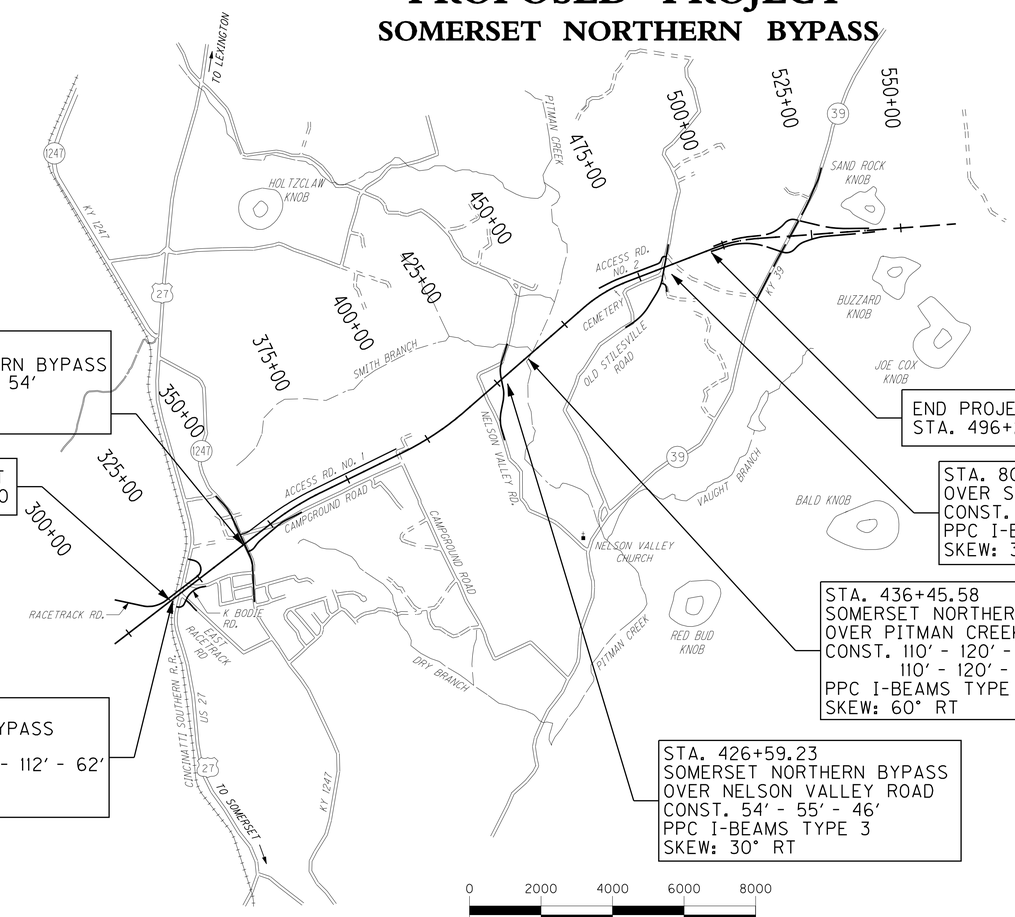
TOTAL SHEETS

(R) ROADWAY 180
(S) STRUCTURE
(T) TRAFFIC
(U) UTILITY
(X) CROSS SECTION 483

SHEETS NOT INCLUDED IN TOTAL SHEETS: R2A - R2L

STANDARD DRAWINGS

NUMBER



STA. 50+00.00 KY 1247
OVER SOMERSET NORTHERN BYPASS
CONST. 54' - 90' - 90' - 54'
PPC I-BEAMS TYPE 4
SKEW: 12°49'40" LT

BEGIN PROJECT
STA. 312+65.00

END PROJECT
STA. 496+20.00

STA. 80+00.00 OLD STILESVILLE ROAD
OVER SOMERSET NORTHERN BYPASS
CONST. 68' - 100' - 100' - 68'
PPC I-BEAMS TYPE 4
SKEW: 31°10'33" LT

STA. 436+45.58
SOMERSET NORTHERN BYPASS
OVER PITMAN CREEK
CONST. 110' - 120' - 120' - 110' EB
110' - 120' - 120' - 110' - 96' WB
PPC I-BEAMS TYPE 6
SKEW: 60° RT

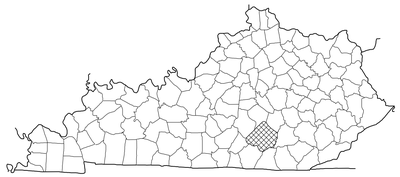
STA. 316+11.73
SOMERSET NORTHERN BYPASS
OVER NS RR & US 27
CONST. 96' - 122' - 56' - 112' - 62'
PPC I-BEAMS TYPE 6
SKEW: 51° RT

STA. 426+59.23
SOMERSET NORTHERN BYPASS
OVER NELSON VALLEY ROAD
CONST. 54' - 55' - 46'
PPC I-BEAMS TYPE 3
SKEW: 30° RT

0 2000 4000 6000 8000
GRAPHIC SCALE IN FEET

LAYOUT MAP

NATIONAL HIGHWAY SYSTEM



THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

THIS PROJECT IS ON THE NATIONAL HIGHWAY SYSTEM

THESE PLANS ARE FOR GRADE, DRAIN & SURFACING

DESIGN CRITERIA

CLASS OF HIGHWAY: INTERSTATE
TYPE OF TERRAIN: ROLLING
DESIGN SPEED: 70 MPH
REQUIRED NPSD
REQUIRED PSD
LEVEL OF SERVICE
ADT PRESENT ( )
ADT FUTURE ( )
DHV
D %
T %

GEOGRAPHIC COORDINATES

LATITUDE 37 DEGREES 09 MINUTES NORTH
LONGITUDE 84 DEGREES 36 MINUTES WEST

DESIGNED

% RESTRICTED SD: N/A
LEVEL OF SERVICE: C
MAX. DISTANCE W/O PASSING: N/A

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

PULASKI COUNTY

LENGTH 18355 LIN. FT. 3.476 MILES	LENGTH ___ LIN. FT. ___ MILES	LENGTH ___ LIN. FT. ___ MILES	LENGTH ___ LIN. FT. ___ MILES
ADDED / DEDUCTED — FOR EQUALITIES 0.00 LIN. FT.	ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT.	ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT.	ADDED / DEDUCTED — FOR EQUALITIES ___ LIN. FT.
NOT INCLUDED	NOT INCLUDED	NOT INCLUDED	NOT INCLUDED
RAILROAD CROSSINGS NO. ___ LIN. FT.	RAILROAD CROSSINGS NO. ___ LIN. FT.	RAILROAD CROSSINGS NO. ___ LIN. FT.	RAILROAD CROSSINGS NO. ___ LIN. FT.
BRIDGES ___ LIN. FT.	BRIDGES ___ LIN. FT.	BRIDGES ___ LIN. FT.	BRIDGES ___ LIN. FT.

KENTUCKY DEPARTMENT OF HIGHWAYS
COUNTY OF PULASKI
SOMERSET NORTHERN BYPASS

ITEM NO. 8-59.50
PROJECT NUMBER: DPR 0033(005) FD52 100 0066 NWROUTE
LETTING DATE:

RECOMMENDED BY ___ BY ___
DATE PROJECT MANAGER

PLAN APPROVED BY ___ BY ___
DATE STATE HIGHWAY ENGINEER

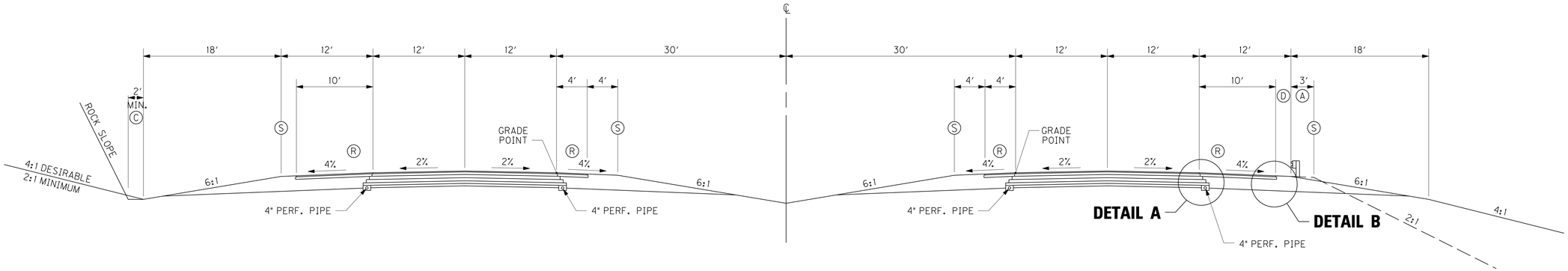
PLANS PREPARED BY:
JOHNSON, DEPP & QUISENBERRY
CONSULTING ENGINEERS
OWENSBORO, KENTUCKY

APPROVED: ___ DATE
F.H.W.A. DIVISION ADMINISTRATOR

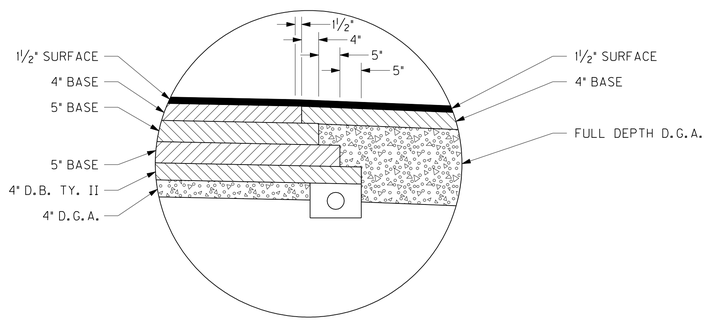
...\Plandgns\R00100LS.dgn
Cell Name: sl
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2

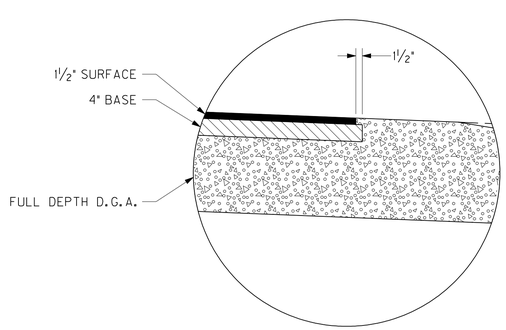
TYPICAL SECTIONS
SOMERSET NORTHERN BYPASS



NORMAL TYPICAL SECTION
SOMERSET NORTHERN BYPASS
STA. 312+65.00 TO STA. 496+20.00



DETAIL A
NOT TO SCALE



DETAIL B
NOT TO SCALE

NEW CONSTRUCTION
GRADE, DRAIN & SURFACING
~ USING ~

TRAFFIC LANES
- 4" COMPACTED DEPTH DENSE GRADED AGGREGATE BASE
- 4" COMPACTED DEPTH DRAINAGE BLANKET, TYPE II, ASPHALT
- 10" COMPACTED DEPTH CL 3 ASPHALT BASE 01.D PG 64-22 (2 - 5" COURSES)
- 4 " COMPACTED DEPTH CL 3 ASPHALT BASE 1.0D PG 70-22
- 1½" COMPACTED DEPTH CL 3 ASPHALT SURFACE 0.5A PG 70-22

SHOULDERS
- FULL DEPTH COMPACTED DEPTH DENSE GRADED AGGREGATE BASE
- 4 " COMPACTED DEPTH CL 2 ASPHALT BASE 1.0D PG 64-22
- 1½" COMPACTED DEPTH CL 2 ASPHALT SURFACE 0.5D PG 64-22

CLASS: INTERSTATE
DESIGN SPEED = 70 M.P.H.
POSTED SPEED = 65 M.P.H.

NOTES:

FOR SLOPES OUTSIDE LIMITS OF SHOULDER SEE CROSS SECTIONS.

UNLESS SHOWN ON PLANS, ALL RADII AT APPROACHES AND ENTRANCES CONFORM TO THE STANDARD DRAWINGS.

PAVEMENT AND SLOPES TO BE ROUNDED AS CALLED FOR ON STANDARD DRAWING NO. RGX-001.

(A) SHOULDER SHALL BE WIDENED THREE FEET WHERE GUARDRAIL IS TO BE INSTALLED.

(B) SLOPE AT SAME RATE AS SUPERELEVATION EXCEPT NOT FLATTER THAN SLOPE INDICATED.

(C) TWO FOOT MINIMUM DITCH WIDTH IN ROCK CUTS AND WHERE CHANNEL LINING IS REQUIRED.

(D) SHOULDERS SHALL BE PAVED TO THE FACE OF GUARDRAIL.

(R) CONSTRUCT SAWED RUMBLE STRIPS IN ACCORDANCE WITH SECTION 403.03.08 OF THE STANDARD SPECIFICATIONS.

(S) ASPHALT SEAL COAT REQUIRED FROM THE EDGE OF PAVED SHOULDER TO A POINT TWO (2) FEET DOWN THE CUT OR FILL SLOPE TO RETARD VEGETATION GROWTH AND HELP PREVENT EROSION. TWO APPLICATIONS OF THE FOLLOWING:

EMULSIFIED ASPHALT RS-2 ..... 2.40 LB./SQ. YD.
ASPHALT SEAL AGGREGATE ..... 20 LB./SQ. YD. (SIZE 8 OR 9M)

NOT TO SCALE

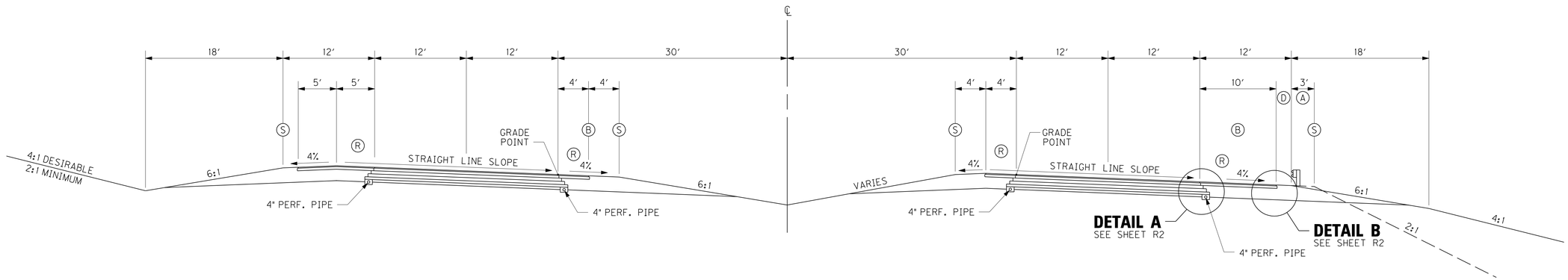
TYPICAL SECTIONS
MAINLINE

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

...\plandgns\R00200TS.dgn
Cell Name: SP
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2A

TYPICAL SECTIONS
SOMERSET NORTHERN BYPASS



SUPERELEVATED TYPICAL SECTION
SOMERSET NORTHERN BYPASS
STA. 312+65.00 TO STA. 496+20.00

CLASS: INTERSTATE
DESIGN SPEED = 70 M.P.H.
POSTED SPEED = 65 M.P.H.

NOTES:

FOR SLOPES OUTSIDE LIMITS OF SHOULDER SEE CROSS SECTIONS.

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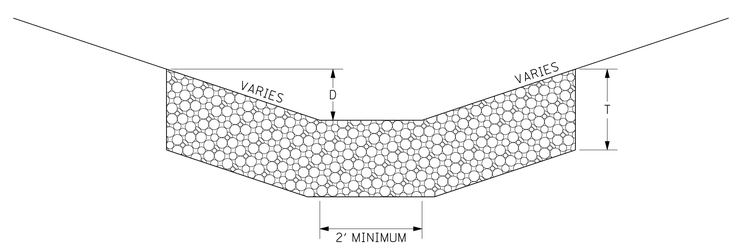
EMULSIFIED ASPHALT RS-2.....2.40 LB./SQ. YD.
ASPHALT SEAL AGGREGATE.....20 LB./SQ. YD.
(SIZE 8 OR 9M)



CHANNEL LINED FLAT BOTTOM DITCH

SEE PLANS FOR 'T' AND 'D'

NOT TO SCALE

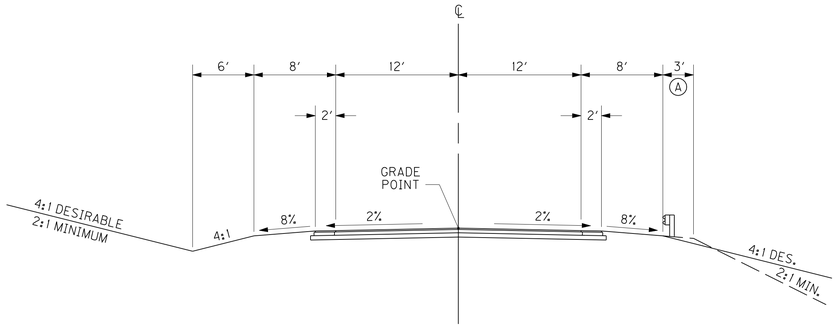
TYPICAL SECTIONS
MAINLINE

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

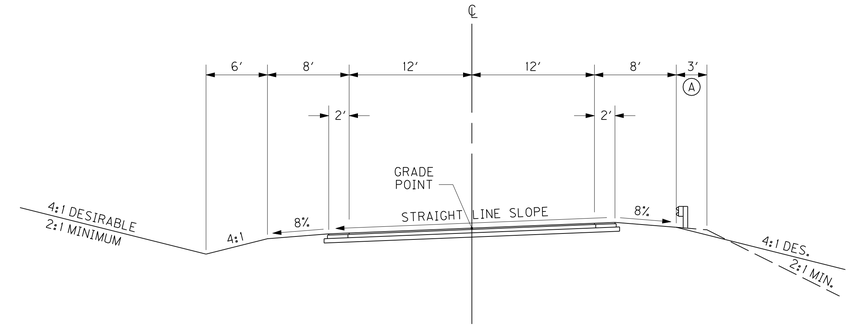
...\plandgns\R002A0TS.dgn
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2B

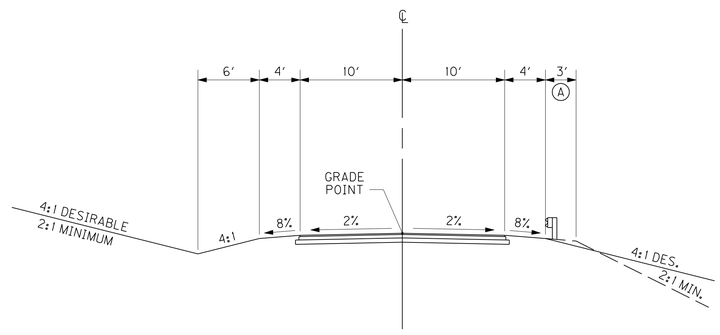
TYPICAL SECTIONS



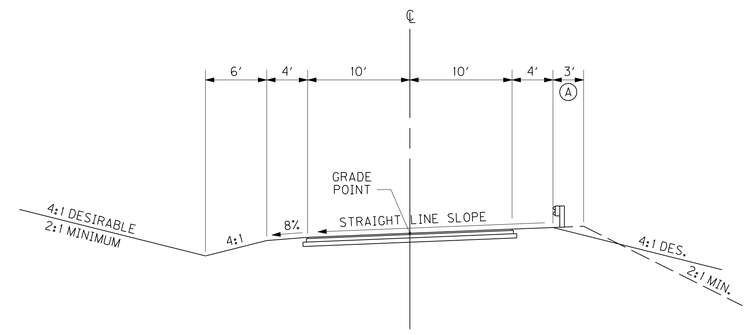
NORMAL TYPICAL SECTION
RACETRACK ROAD



SUPERELEVATED TYPICAL SECTION
RACETRACK ROAD



NORMAL TYPICAL SECTION
K BODIE ROAD
EAST RACETRACK ROAD
EVENING SHADE DRIVE
OLD STILESVILLE ROAD CONN.
JOHNS LANE



SUPERELEVATED TYPICAL SECTION
K BODIE ROAD
EAST RACETRACK ROAD
EVENING SHADE DRIVE
OLD STILESVILLE ROAD CONN.
JOHNS LANE

NOTES:

FOR SLOPES OUTSIDE LIMITS OF SHOULDER SEE CROSS SECTIONS.

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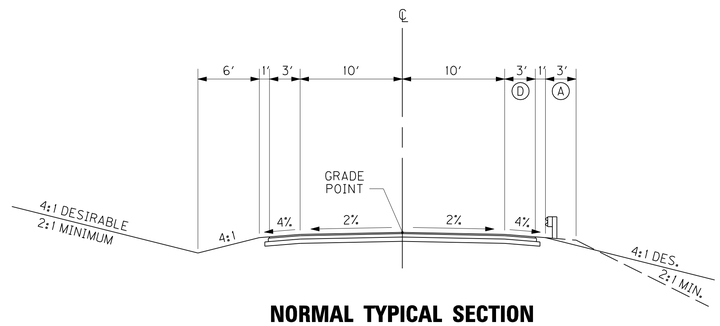
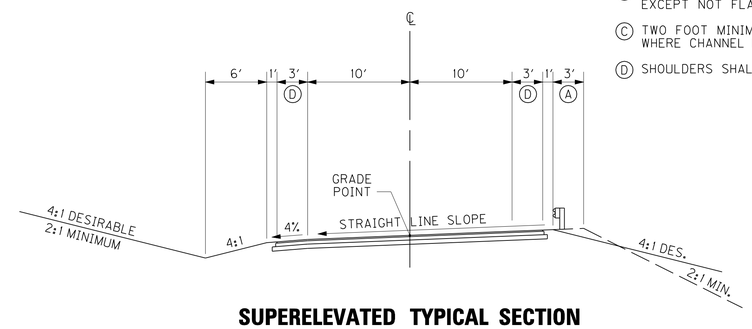
(B) SLOPE AT SAME RATE AS SUPERELEVATION EXCEPT NOT FLATTER THAN SLOPE INDICATED.

(C) TWO FOOT MINIMUM DITCH WIDTH IN ROCK CUTS AND WHERE CHANNEL LINING IS REQUIRED.

(D) SHOULDERS SHALL BE PAVED TO THE FACE OF GUARDRAIL



NORMAL TYPICAL SECTION
K BODIE ROAD
EAST RACETRACK ROAD



SUPERELEVATED TYPICAL SECTION
K BODIE ROAD
EAST RACETRACK ROAD

NOT TO SCALE

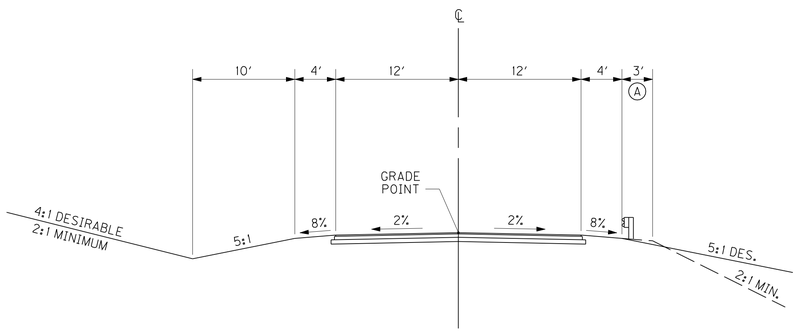
TYPICAL SECTIONS - RACETRACK RD,
K BODIE, E. RACETRACK, EVENING SHADE DR,
OLD STILESVILLE CONN & JOHNS LANE

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

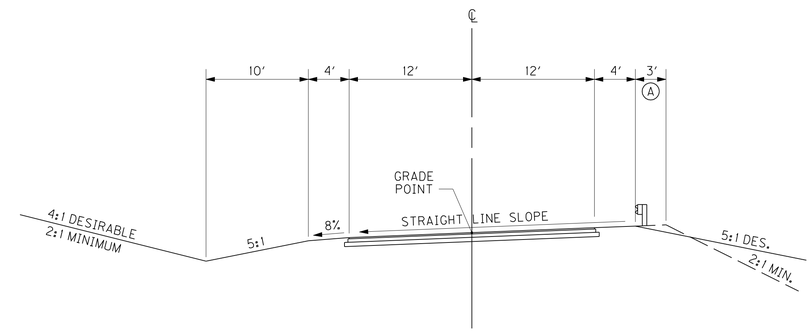
...\plandgns\R002BOTS.dgn
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2C

TYPICAL SECTIONS



NORMAL TYPICAL SECTION
KY 1247



SUPERELEVATED TYPICAL SECTION
KY 1247

NOTES:

FOR SLOPES OUTSIDE LIMITS OF SHOULDER SEE CROSS SECTIONS.

UNLESS SHOWN ON PLANS, ALL RADII AT APPROACHES AND ENTRANCES CONFORM TO THE STANDARD DRAWINGS.

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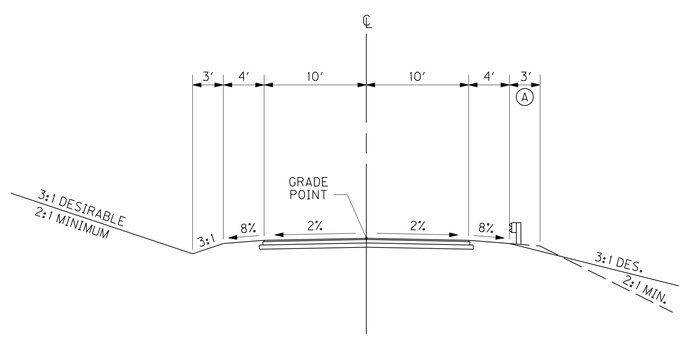
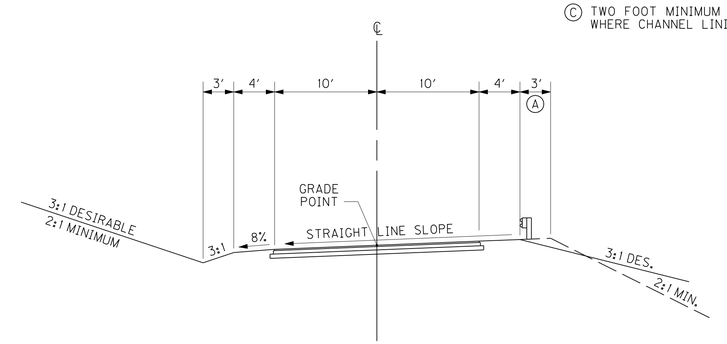
(C) TWO FOOT MINIMUM DITCH WIDTH IN ROCK CUTS AND WHERE CHANNEL LINING IS REQUIRED.



NORMAL TYPICAL SECTION
ACCESS ROAD #1
ACCESS ROAD #2



SUPERELEVATED TYPICAL SECTION
ACCESS ROAD #1
ACCESS ROAD #2

NOT TO SCALE

TYPICAL SECTIONS
KY 1247 & ACCESS ROADS

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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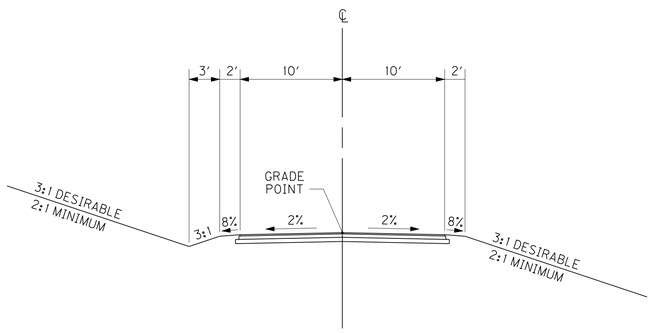
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2D

TYPICAL SECTIONS



NORMAL TYPICAL SECTION
KY 1247 ACCESS ENT.

NOTES:

FOR SLOPES OUTSIDE LIMITS OF SHOULDER SEE CROSS SECTIONS.

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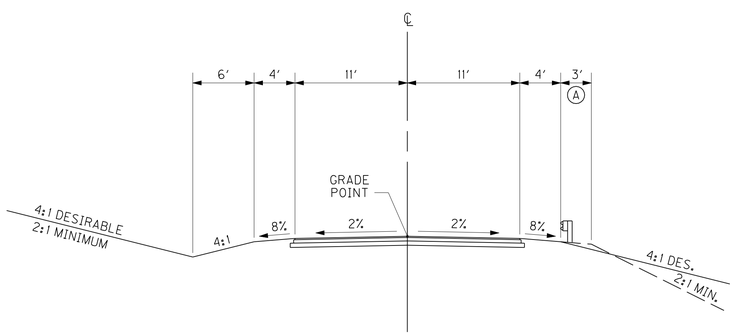
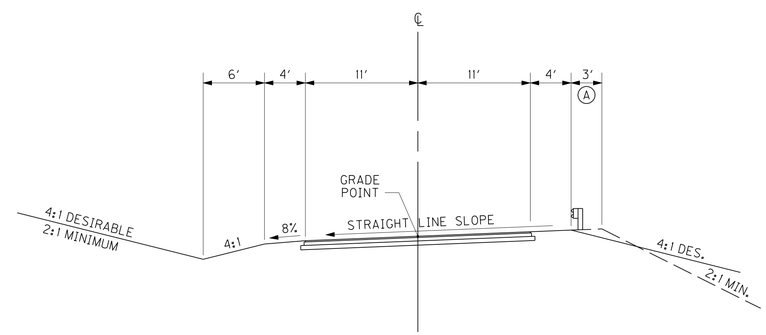
(C) TWO FOOT MINIMUM DITCH WIDTH IN ROCK CUTS AND WHERE CHANNEL LINING IS REQUIRED.



NORMAL TYPICAL SECTION
CAMPGROUND ROAD
OLD STILESVILLE ROAD



SUPERELEVATED TYPICAL SECTION
CAMPGROUND ROAD
OLD STILESVILLE ROAD

NOT TO SCALE

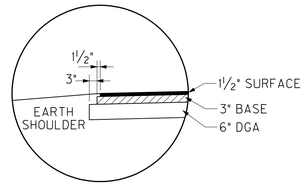
TYPICAL SECTIONS
KY 1247 ACCESS ENT., CAMPGROUND ROAD
& OLD STILESVILLE ROAD

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

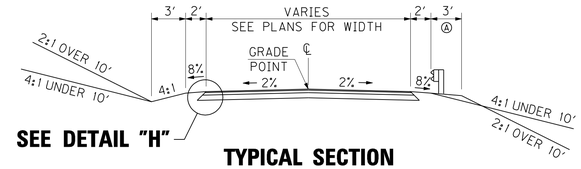
...\plandgns\R002DOTS.dgn
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2E

TYPICAL SECTIONS



DETAIL "H"
NOT TO SCALE
EDGE OF PAVEMENT DETAIL
FOR FLEXIBLE PAVEMENT



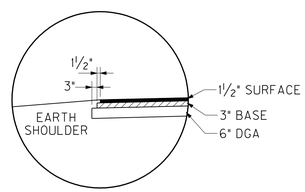
TYPICAL SECTION
FOR COMMERCIAL ENTRANCES
TO APPLY AS DIRECTED BY STANDARD DRAWING RPM–110–04

NEW CONSTRUCTION
GRADE, DRAIN & SURFACING
~ USING ~

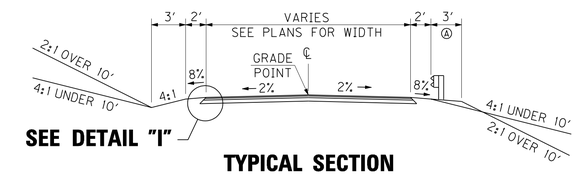
BASE — 6" COMPACTED DEPTH DENSE GRADED AGGREGATE BASE
3" COMPACTED DEPTH CLASS 2 ASPHALT BASE 1.00D (PG 64-22)

SURFACE — 1½" COMPACTED DEPTH CLASS 2 ASPHALT SURFACE 0.38D (PG 64-22)

SHOULDERS — EARTH



DETAIL "I"
NOT TO SCALE
EDGE OF PAVEMENT DETAIL
FOR FLEXIBLE PAVEMENT



TYPICAL SECTION
FOR RESIDENTIAL ENTRANCES & FARM FIELD ENTRANCES
TO APPLY AS DIRECTED BY STANDARD DRAWING RPM–110–04

NEW CONSTRUCTION
GRADE, DRAIN & SURFACING
~ USING ~

BASE — 6" COMPACTED DEPTH DENSE GRADED AGGREGATE BASE
3" COMPACTED DEPTH CLASS 2 ASPHALT BASE 1.00D (PG 64-22)

SURFACE — 1½" COMPACTED DEPTH CLASS 2 ASPHALT SURFACE 0.38D (PG 64-22)

SHOULDERS — EARTH

NOTES:

FOR SLOPES OUTSIDE LIMITS OF SHOULDER SEE CROSS SECTIONS.

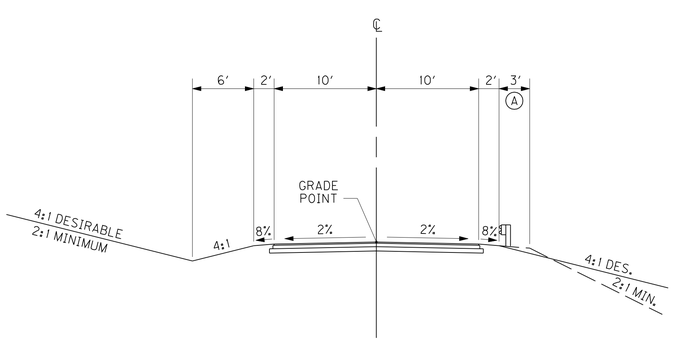
UNLESS SHOWN ON PLANS, ALL RADII AT APPROACHES AND ENTRANCES CONFORM TO THE STANDARD DRAWINGS.

PAVEMENT AND SLOPES TO BE ROUNDED AS CALLED FOR ON STANDARD DRAWING NO. RGX-001.

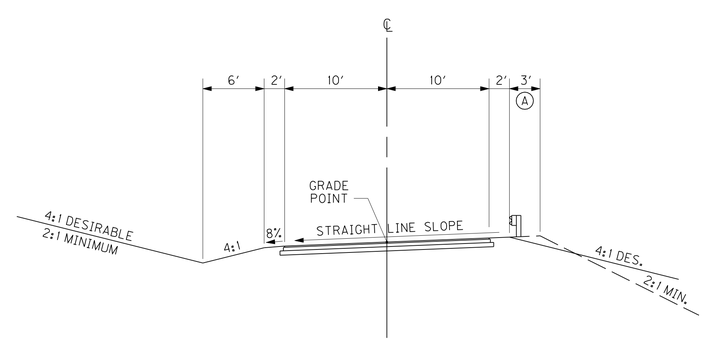
(A) SHOULDER SHALL BE WIDENED THREE FEET WHERE GUARDRAIL IS TO BE INSTALLED.

(B) SLOPE AT SAME RATE AS SUPERELEVATION EXCEPT NOT FLATTER THAN SLOPE INDICATED.

(C) TWO FOOT MINIMUM DITCH WIDTH IN ROCK CUTS AND WHERE CHANNEL LINING IS REQUIRED.



NORMAL TYPICAL SECTION
NELSON VALLEY ROAD



SUPERELEVATED TYPICAL SECTION
NELSON VALLEY ROAD

NOT TO SCALE

TYPICAL SECTIONS
NELSON VALLEY ROAD & ENTRANCES

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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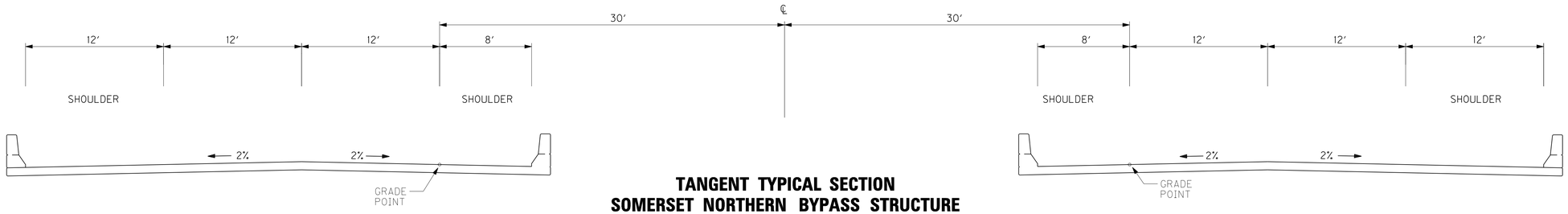
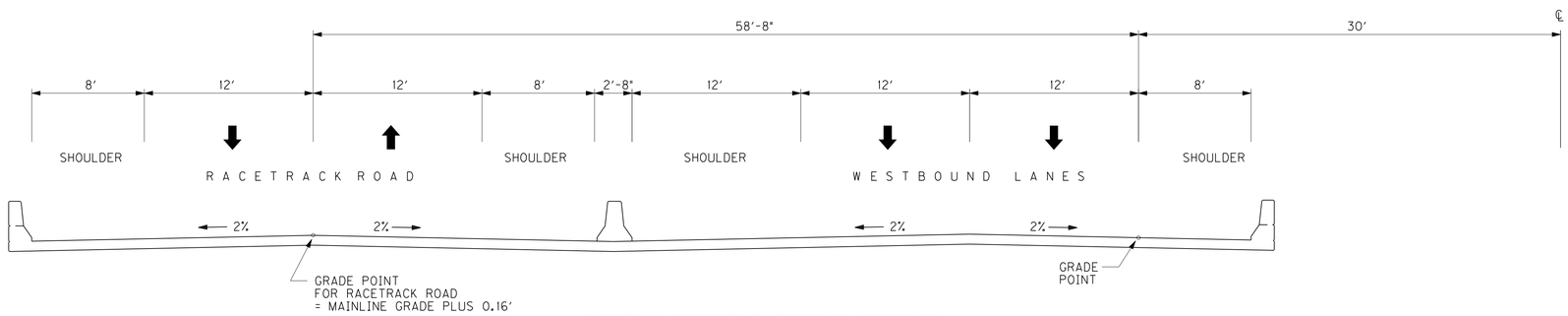
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2F

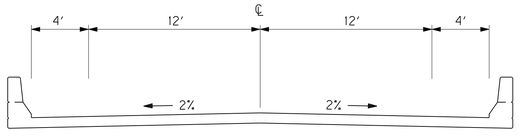
TYPICAL SECTIONS
SOMERSET NORTHERN BYPASS – I–66



TANGENT TYPICAL SECTION
SOMERSET NORTHERN BYPASS STRUCTURE
OVER
US 27 & NORFOLK SOUTHERN RAILROAD
NELSON VALLEY ROAD
PITMAN CREEK



PARTIAL TANGENT TYPICAL SECTION
SOMERSET NORTHERN BYPASS
WEST BOUND LANES &
RACETRACK ROAD STRUCTURE
OVER
US 27 & NORFOLK SOUTHERN RAILROAD



TANGENT TYPICAL SECTION
STRUCTURE FOR
KY 1247 OVER SOMERSET NORTHERN BYPASS
OLD STILESVILLE ROAD OVER SOMERSET NORTHERN BYPASS

NOT TO SCALE

TYPICAL SECTIONS
STRUCTURES

PREPARED BY JDQ DATE 3/17/2014
CHECKED BY JDQ DATE 3/17/2014
APPROVED BY DATE

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3/17/2014

JDQ
I-32
FORM NO. 2

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2G

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT	SOMERSET NORTH BYPASS I-66 MAINLINE	RACETRACK ROAD	K BODIE ROAD EAST RACETRACK RD	KY 1247	CAMPGROUND ROAD CONN.	ACCESS ROAD NO. 1	NELSON VALLEY ROAD	ACCESS ROAD NO. 2	OLD STILESVILLE ROAD								PROJECT TOTAL
78	CRUSHED AGGREGATE SIZE NO. 2 ①	TON	52	-	-	-	-	-	-	-	-								52
1000	PERFORATED PIPE-4 IN	LIN FT	4531.00	-	-	-	-	-	-	-	-								4531.00
1010	NON-PERFORATED PIPE-4 IN	LIN FT	2794.00	-	-	-	-	-	-	-	-								2794.00
1020	PERFORATED PIPE HEADWALL TYPE 1 4 IN	EACH	6	-	-	-	-	-	-	-	-								6
1024	PERFORATED PIPE HEADWALL TYPE 2 4 IN	LIN FT	20	-	-	-	-	-	-	-	-								20
1028	PERFORATED PIPE HEADWALL TYPE 3 4 IN	EACH	20	-	-	-	-	-	-	-	-								20
1032	PERFORATED PIPE HEADWALL TYPE 4 4 IN	EACH	6	-	-	-	-	-	-	-	-								6
1891	ISLAND HEADER CURB TYPE 2	LIN FT	-	42.25	-	50.0	-	-	-	-	-								92.25
1984	DELINEATOR FOR BARRIER WHITE	EACH	14	-	-	-	-	-	-	-	-								14
2014	BARRICADE - TYPE III	EACH	8	-	-	-	-	-	-	-	-								8
2091	REMOVING PAVEMENT	SQ YD	117.6	-	-	-	-	-	918.9	-	87.4								1123.9
2200	ROADWAY EXCAVATION	CU YD	1357334	8273	13767	3771	5668	39689	2931	5797	12094								1449324
2203	STRUCTURE EXCAVATION	CU YD	795	-	-	-	-	-	-	-	-								795
2223	GRANULAR EMBANKMENT ②	CU YD	37511.77	-	-	-	-	-	-	-	-								37511.8
2242	WATER ⑥	MGALLON	1000	-	-	-	-	-	-	-	-								1000
2262	R/W FENCE WOVEN WIRE TYPE 1	LIN FT	34571.00	1032.60	-	-	-	-	-	-	-								35603.60
2351	GUARDRAIL STEEL W BEAM S FACE	LIN FT	1125.00	962.50	-	1987.50	1912.50	337.50	812.50	1625.00	1637.50								10400.00
2360	GUARDRAIL TERMINAL SECTION NO. 1	EACH	8	-	-	5	5	-	3	6	3								30
2363	GUARDRAIL CONNECTOR TO BRIDGE END TYPE A	EACH	-	2	-	4	-	-	-	-	4								10
2369	GUARDRAIL END TREATMENT TYPE 2A	EACH	-	-	-	-	-	1	-	-	-								1
2373	GUARDRAIL END TREATMENT TYPE 3	EACH	-	-	-	1	-	-	-	-	-								1
2381	REMOVING GUARDRAIL ④	LIN FT	75.00	-	-	-	-	-	-	-	-								75.00
2391	GUARDRAIL END TREATMENT TYP 4A	EACH	-	2	-	1	1	-	3	-	5								12
2403	REMOVE CONCRETE MASONRY	CU YD	-	-	-	51.9	-	-	-	-	-								51.9
2404	SEPTIC TANK TREATMENT	EACH	5	-	-	-	2	-	-	-	2								9
2429	R/W MONUMENT TYPE I	EACH	11	-	13	20	12	12	25	13	34								140
2432	WITNESS POST	EACH	9	-	11	16	9	12	23	10	26								116
2469	CLEAN SINKHOLE	EACH	2	-	-	-	-	-	-	-	-								2
2475	PLUG WATER WELL	EACH	1	-	-	-	-	-	-	-	-								1
2483	CHANNEL LINING CLASS II	TON	1723.00	7.0	49.0	243.0	315.0	196.0	82.0	141.0	167.0								2923
2484	CHANNEL LINING CLASS III	TON	4324.00	-	-	271.0	233.0	411.0	-	255.0	-								5494
2545	CLEARING AND GRUBBING ⑤	LP SUM																	LP SUM
2555	CONCRETE CLASS B	CU YD	206.0	-	-	-	-	-	-	-	-								206.0
2562	SIGNS	SQ FT	9000.0	-	-	-	-	-	-	-	-								9000.0
2565	OBJECT MARKER, TYPE 2	EACH	-	1	-	2	-	-	-	-	2								5
2568	MOBILIZATION	LP SUM																	LP SUM
2569	DEMOBILIZATION	LP SUM																	LP SUM
2596	FABRIC-GEOTEXTILE TYPE I	SQ YD	7500.0	-	-	-	-	-	-	-	-								7500.0
2598	FABRIC-GEOTEXTILE TYPE III	SQ YD	36211.4	-	-	-	-	-	-	-	-								36211.4
2599	FABRIC-GEOTEXTILE TYPE IV ③	SQ YD	56996.9	-	-	108.0	-	-	-	-	-								57104.9
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM																	LP SUM
2671	VARIABLE MESSAGE SIGN PORTABLE 3 LINE	EACH	6	-	-	-	-	-	-	-	-								6
2692	SETTLEMENT PLATFORM	EACH	4	-	-	2	-	-	-	-	-								6
2701	TEMPORARY SILT FENCE	LIN FT	1011.00	-	-	-	-	-	-	-	-								1011.00
2703	SILT TRAP TYPE A	EACH	16	-	-	-	-	-	-	-	-								16
2704	SILT TRAP TYPE B	EACH	540	-	-	-	-	-	-	-	-								540
2706	CLEAN SILT TRAP TYPE A	EACH	48	-	-	-	-	-	-	-	-								48
2707	CLEAN SILT TRAP TYPE B	EACH	1620	-	-	-	-	-	-	-	-								1620
2709	CLEAN TEMPORARY SILT FENCE	LIN FT	1011.00	-	-	-	-	-	-	-	-								1011.00
2726	STAKING	LP SUM																	LP SUM
2775	FLASHING ARROW	EACH	4	-	-	-	-	-	-	-	-								4
3171	CONCRETE BARRIER WALL TYPE 9T	LIN FT	1080.00	-	-	-	-	-	-	-	-								1080.00
3340	2½" STEEL PIPE	LIN FT	105.0	-	-	52.5	-	-	-	-	-								157.5
3343	4" STEEL PIPE	LIN FT	105.0	-	-	52.5	-	-	-	-	-								157.5

① INCLUDES 1 TON FOR EACH PERFORATED PIPE HEADWALL

② INCLUDES 32.7 CY FOR TREATMENT OF SINKHOLES

③ INCLUDES 175.4 SY FOR TREATMENT OF SINKHOLES, 55560 SY FOR VARIOUS GEOTECH NOTES & 1369.5 SY FOR PILE CORES

④ CONTRACTOR WILL HAUL TO BAILEY BRIDGE YARD IN FRANKFORT

⑤ APPROXIMATELY 180 ACRES

⑥ FOR DUST CONTROL

PROJECT EARTHWORK TOTALS

1213826	CU. YDS.	COMMON EXCAVATION
56593	CU. YDS.	TRANSVERSE BENCHING
756	CU. YDS.	RDWY. EXC. FROM PIPE SUMM.
138469	CU. YDS.	ROCK EXCAVATION
8971	CU. YDS.	EMBANKMENT BENCH
30709	CU. YDS.	SURFACE DITCH
1449324	CU. YDS.	TOTAL EXCAVATION
900953	CU. YDS.	EMBANKMENT
900953	CU. YDS.	TOTAL EMBANKMENT

PREPARED BY ____ DATE ____
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COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2H

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT	SOMERSET NORTH BYPASS I-66 MAINLINE	RACETRACK ROAD	K BODIE ROAD EAST RACETRACK RD	KY 1247	CAMPGROUND ROAD CONN.	ACCESS ROAD NO. 1	NELSON VALLEY ROAD	ACCESS ROAD NO. 2	OLD STILESVILLE ROAD								PROJECT TOTAL
5950	EROSION CONTROL BLANKET	SQ YD	24922.0	572.0	800.0	781.0	575.0	3554.0	3138.0	1270.0	1516.0								37128.0
5952	TEMPORARY MULCH	SQ YD	139734	3967	5221	9830	8688	20827	9775	8814	10776								217632
5953	TEMPORARY SEEDING & PROTECTION	SQ YD	139734	3967	5221	9830	8688	20827	9775	8814	10776								217632
5966	TOPDRESSING FERTILIZER	TON	14.5	0.4	0.5	1.0	0.9	2.2	1.0	0.9	1.1								22.5
5985	SEEDING AND PROTECTION	SQ YD	178749	5223	8235	13753	13170	36504	19081	13777	20307								308799
5989	SPECIAL SEEDING CROWN VETCH	SQ YD	100718	2710	2207	5906	4205	5150	468	3851	1245								126460
6418	FLEXIBLE DELINEATOR POST-W	EACH	155	-	-	-	-	-	-	-	-								155
6510	PAVE STRIPING-TEMP PAINT-4 IN	LIN FT	-	5400.0	2916.0	2672.0	3558.0	-	5060.0	-	4806.0								24412.00
6514	PAVE STRIPING-PERM PAINT- 4 INCH	LIN FT	-	5400.0	2916.0	2672.0	3558.0	-	5060.0	-	4806.0								24412.00
6555	PAVE STRIPING-DUR TY 1-4" Y	LIN FT	-	-	-	628.0	-	-	-	-	904.0								1532.00
6568	PAVE MRKG-THERMO STOP BAR-24"	LIN FT	-	24.2	36.0	-	65.5	23.5	52.0	35.0	56.5								292.70
8019	CYCLOPEAN STONE RIPRAP	TON	7502	-	-	-	-	-	-	-	-								7502
20209EP69	GRANULAR PILE CORE	CU YD	11599.8	-	-	597.3	-	-	-	-	-								12197.1
21261ED	TURF REINFORCEMENT MAT, TYPE 1	SQ YD	6822	89	492	256	129	965	22	453	555								9783

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CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2I

SHEET NO.	STATION	SKEW	COVER HEIGHT	DESIGN pH LEVEL	PIPE ENTRANCE 15 INCH	PIPE ENTRANCE 18 INCH	PIPE ENTRANCE 24 INCH			PIPE ENTRANCE 24 INCH EQUIV	PIPE CULVERT 15 INCH	PIPE CULVERT 18 INCH	PIPE CULVERT 24 INCH	PIPE CULVERT 30 INCH	PIPE CULVERT 36 INCH	PIPE CULVERT 42 INCH	PIPE CULVERT 54 INCH	PIPE CULVERT 66 INCH	PIPE CULVERT 18 INCH EQUIV	PIPELINE VIDEO INSPECTION	PIPE CULVERT HEADWALLS 30 INCH	PIPE CULVERT HEADWALLS 36 INCH	PIPE CULVERT HEADWALLS 42 INCH	PIPE CULVERT HEADWALLS 54 INCH	PIPE CULVERT HEADWALLS 66 INCH	SLOPED BOX OUTLET TYPE 1-18 IN	S & F BOX INLET-OUTLET - 18 INCH	S & F BOX INLET-OUTLET - 24 INCH	S & F BOX INLET-OUTLET - 30 INCH	S & F BOX INLET-OUTLET - 36 INCH	CURB BOX INLET TYPE B	DROP BOX INLET TYPE I	DROP BOX INLET TYPE 5B	DROP BOX INLET TYPE 5F	DROP BOX INLET TYPE 11	JUNCTION BOX	CLASS "A" CONCRETE	STEEL REINFORCEMENT	FABRIC-GEOTEXTILE TYPE IV FOR PIPE	ROADWAY EXCAVATION	REMARKS
ITEM CODE					440	441	443			452	461	462	464	466	468	469	471	473	491	2313ER701	1210	1212	1214	1218	-	1433	1450	1451	1452	1453	1480	1490	1505	1517	1544	1650	8100	8150	21433ES214	2200	
UNIT TO BID ON					LINEAR FEET																EACH																	CY	LB	SY	CY	
MAINLINE, SOMERSET NORTH BYPASS																																									
	313+16.74, 73.27' RT	0°		M								116.0																			1						0.93	8	348.0		SIZE NO. 5-2, H=5.1' (1)S&F HDWL NO CONC. ALT. (2) 26° ELBOWS
	313+77.70, 22' RT	0°		M								80.0																			1								240.0		SIZE NO. 5-2, H=5.1'
	314+32.30, 22' LT	12° LT		M								72.0																			1								216.0		SIZE NO. 5-2, H=5.1'
	328+50	4° 20' RT		M								90.0																					1				1.50	12	270.0		(1) S&P HEADWALL, H-3.33'
	339+50	4° 30' RT		M								93.2																					1				1.50	12	279.6		(1) S&P HEADWALL, H-3.33'
	345+25.40	6° RT		M												199.4							2																857.4	34	(2) 15° HEADWALLS
	348+77.53	0°		M									177.3															1						1			1.35	8	567.4		(1) S&F HEADWALL
	352+08.88	0°		M								195.0															2												585.0	11	
	355+47.60	0°		M									208.7															1									1.35	8	667.8	13	(1) S&F HEADWALL
	356+00	11° LT		M								104.3																						1			0.93	8	312.9		(1) S&F HEADWALL, H-3.34' NO CONC. ALT (2) 26° ELBOWS
	369+50	23° RT		M								91.0																					1				1.50	12	273.0	3	(1) S&P HEADWALL, H-3.34'
	377+50	0°		M								121.6																					1				1.50	12	364.8	131	(1) S&P HEADWALL, H-3.33'
	379+22.80	47° LT		M									233.7															2											747.8		
	401+44.50	0°		M										193.6															2						1					677.6	67	H=3.97
	411+00	0°		M								137.0																							1		0.93	8	411.0	3	S&F HEADWALL NO CONC. ALT. (2)26° ELBOWS
	414+40	0°		M														453.0							2														2355.6	24	(2) 0° SKEW PIPE CUILVERT HEADWALLS
	422+25	0°		M								113.0																					1				0.93	8	339.0	1	S&F HEADWALL NO CONC. ALT. (2) 26° ELBOWS
	425+50	0°		M								115.0																					1				0.93	8	345.0	16	S&F HEADWALL NO CONC. ALT. (2) 26° ELBOWS
	427+23.11, 66' RT	16° 30' LT		M								72.0																			1						0.93	8	216.0	5	S&F HDWL SIZE NO. 5-2 H=5.6' NO CONC. ALT. (2) 26° ELBOWS
	427+48.51, 22' RT.	0°		M								50.0																			1								150.0		SIZE NO. 5-2 H=5.1'
	427+73.91, 22' LT.	0°		M								50.0																			1								150.0		SIZE NO. 5-2 H=5.1'
	427+99.32, 66' LT.	30° 30' LT		M								57.0																			1						0.93	8	171.0	5	SIZE NO. 5-2 H=5.1' S&F HDWL NO CONC. ALT. (2) 26° ELBOWS
	430+75	9° 30' LT		M								118.0																					1				0.93	8	354.0	2	S&F HEADWALL NO CONC. ALT. (2) 26° ELBOWS
	433+60	26° RT		M								116.0																						1			0.93	8	348.0	9	S&F HEADWALL NO CONC. ALT. (2) 26° ELBOWS
	433+23.72, 66' RT.			M								62.0																			1						0.93	8	186.0	11	SIZE NO. 5-8 H=6.0' S&F HDWL NO CONC. ALT. (2) 26° ELBOWS
	433+99.93, 22' RT.			M								92.0																			1								276.0		SIZE NO. 5-2 H=5.1'
	434+76.15, 22' LT.			M								92.0																			1								276.0		SIZE NO. 5-2 H=5.1'
	435+54.36, 66' LT.			M								58.0																			1						0.93	8	174.0	9	SIZE NO. 5-2 H=6.0' S&F HDWL NO CONC. ALT. (2) 26° ELBOWS
	441+38			M								161.0																						1			1.48		483.0		HEADWALL STA.439+75.4
	444+60			M								93.0																					1				1.50	12	279.0		(1) S&P HEADWALL
	452+50			M								88.0																					1				0.93	8	264.0	12	S&F HEADWALL
	454+51.70			M												306.0							2																1315.8	35	(2) 0° SKEW PIPE CUL HDWLS
	458+00			M								98.2																						1			0.93	8	294.6	10	S&F HEADWALL
	468+00			M								104.0																						1			1.50	12	312.0		(1) S&P HEADWALL
	470+37.80			M								267.0															1												801.0		CONN TO ACC RD 2 DBI
	474+83.90			M								192.6															2												577.8		
	481+00			M							298.0																						1						864.2		CONN TO DBI 484+00 (2) 5° EL
	484+00			M								91.0															1						1						273.0		
	494+00			M							50.0																							1					145.0		CONN TO JCT BOX 494+53
	494+53			M												189.0							2													1			812.7	8	(2) 30° HDWLS INLET SIZE 24
	495+18.06			M							62.0																							1					179.8		CONN TO JCT BOX 494+53

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PIPE DRAINAGE SUMMARY

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2J

SHEET NO.	STATION	SKEW	COVER HEIGHT	DESIGN pH LEVEL	PIPE ENTRANCE 15 INCH	PIPE ENTRANCE 18 INCH	PIPE ENTRANCE 24 INCH	PIPE ENTRANCE	PIPE ENTRANCE	PIPE ENTRANCE 24 INCH EQUIV	PIPE CULVERT 15 INCH	PIPE CULVERT 18 INCH	PIPE CULVERT 24 INCH	PIPE CULVERT 30 INCH	PIPE CULVERT 36 INCH	PIPE CULVERT 42 INCH	PIPE CULVERT 54 INCH	PIPE CULVERT 66 INCH	PIPE CULVERT 18 INCH EQUIV	PIPELINE VIDEO INSPECTION	PIPE CULVERT HEADWALLS 30 INCH	PIPE CULVERT HEADWALLS 36 INCH	PIPE CULVERT HEADWALLS 42 INCH	PIPE CULVERT HEADWALLS 54 INCH	PIPE CULVERT HEADWALLS 66 INCH	SLOPED BOX OUTLET TYPE 1-18 IN	S & F BOX INLET-OUTLET - 18 INCH	S & F BOX INLET-OUTLET - 24 INCH	S & F BOX INLET-OUTLET - 30 INCH	S & F BOX INLET-OUTLET - 36 INCH	CURB BOX INLET TYPE B	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 5B	DROP BOX INLET TYPE 5F	DROP BOX INLET TYPE 11	JUNCTION BOX	CLASS "A" CONCRETE	STEEL REINFORCEMENT	FABRIC-GEOTEXTILE TYPE IV FOR PIPE	ROADWAY EXCAVATION	REMARKS
ITEM CODE					440	441	443			452	461	462	464	466	468	469	471	473	491	2313ER701	1210	1212	1214	1218	-	1433	1450	1451	1452	1453	1480	1490	1505	1517	1544	1650	8100	8150	21433ES214	2200	
UNIT TO BID ON					LINEAR FEET																EACH																CY	LB	SY	CY	
RACETRACK ROAD																																									
	949+50 LT			M	69.0																																				
	956+38.81 LT.			M								80.0																			1						0.93	8	240.0	7	SIZE NO. 5-2 H=5.1' NO CONC. ALT. (2) 26" ELBOWS S&F HDWL.
	970+50	0°		M								81.0															2												243.0	2	
	973+00.86	2°51' RT		M															95.0							2													285.0	5	
K BODIE ROAD																																									
	3+77.79	40°30' LT		M								65.0																									3.00	24	195.0		(2) S&P HEADWALLS
	6+50 RT			M		94.0																																			
EAST RACETRACK ROAD																																									
	31+90 LT			M	68.0																																				
KY 1247																																									
	41+31 RT			M	54.0																																				
	41+40 LT			M		18																																			
	43+10 LT			M						42.0																															
	44+50 RT			M			69.5																																		
	1+08 RT, 1247 ACC	7° RT		M								76.0																									1.86	16	228.0	12	(2) S&F HEADWALLS
	3+65 RT, 1247 ACC			M	41.0																																				
	4+29.6, 1247 ACC			M								42.0																									1.86	16	126.0	6	(2) S&F HEADWALLS
	50+99.20	15°31' LT		M										146.0							2																		511.0		(2) 0° SKEW PIPE CUL HDWLS
	53+55 RT			M	89.0																																				
	56+09 LT			M	52.0																																				
ACCESS ROAD NO. 1																																									
	13+88.53	14°30' RT		M											119.7							2																	442.9	5	(2) 15° SKEW PIPE CUL HDWLS
	17+77.40	3°30' LT		M								79.4																									1.86	16	238.2	75	(2) S&F HEADWALLS
	21+00			M								82.9																									1.86	16	248.7	19	(2) S&F HEADWALLS
	24+50			M								83.6																									1.86	16	250.8	8	(2) S&F HEADWALLS
	39+00 LT			M	58.0																																				
	41+00			M								110.0																									1.86	16	330.0		(2) S&F HEADWALLS
	47+73	27° LT		M									87.6																								2.70	16	280.3	2	(2) S&F HEADWALLS
CAMPGROUND ROAD																																									
	61+20 RT			M	106.0																																				
	67+33.80	15° LT		M													73.0							2															350.4	12	(2) 15° SKEW PIPE CUL HDWLS
	64+70 RT			M	66.0																																				
	71+22.29	43° RT		M									83.0															1									1.35	8	265.6	2	S&F HEADWALL
	71+25 RT			M	50.0																																				
	71+95 RT			M	41.0																																				
	75+00			M									83.4															1									1.35	8	266.9	3	S&F HEADWALL

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: sp
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PIPE DRAINAGE SUMMARY

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2K

SHEET NO.	STATION	SKEW	COVER HEIGHT	DESIGN pH LEVEL	PIPE ENTRANCE 15 INCH	PIPE ENTRANCE 18 INCH	PIPE ENTRANCE 24 INCH	PIPE ENTRANCE	PIPE ENTRANCE	PIPE ENTRANCE 24 INCH EQUIV	PIPE CULVERT 15 INCH	PIPE CULVERT 18 INCH	PIPE CULVERT 24 INCH	PIPE CULVERT 30 INCH	PIPE CULVERT 36 INCH	PIPE CULVERT 42 INCH	PIPE CULVERT 54 INCH	PIPE CULVERT 66 INCH	PIPE CULVERT 18 INCH EQUIV	PIPELINE VIDEO INSPECTION	PIPE CULVERT HEADWALLS 30 INCH	PIPE CULVERT HEADWALLS 36 INCH	PIPE CULVERT HEADWALLS 42 INCH	PIPE CULVERT HEADWALLS 54 INCH	PIPE CULVERT HEADWALLS 66 INCH	SLOPED BOX OUTLET TYPE 1-18 IN	S & F BOX INLET-OUTLET - 18 INCH	S & F BOX INLET-OUTLET - 24 INCH	S & F BOX INLET-OUTLET - 30 INCH	S & F BOX INLET-OUTLET - 36 INCH	CURB BOX INLET TYPE B	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 5B	DROP BOX INLET TYPE 5F	DROP BOX INLET TYPE 11	JUNCTION BOX	CLASS "A" CONCRETE	STEEL REINFORCEMENT	FABRIC-GEOTEXTILE TYPE IV FOR PIPE	ROADWAY EXCAVATION	REMARKS
ITEM CODE					440	441	443			452	461	462	464	466	468	469	471	473	491	2313ER701	1210	1212	1214	1218	-	1433	1450	1451	1452	1453	1480	1490	1505	1517	1544	1650	8100	8150	21433ES214	2200	
UNIT TO BID ON					LINEAR FEET																EACH																CY	LB	SY	CY	
NELSON VALLEY ROAD																																									
	41+07 RT			M			42.0																																		
	43+00 LT			M	44.0																																				
	48+42	32° LT		M											83.0														2									307.1		
	52+00 LT			M	51.0																																				
	52+63	11° LT		M									79.3															2										253.8	11	
	53+70 RT			M	50.0																																				
	57+42			M												115.2																					10.19	702	495.4	147.4	TRIPLE HEADWALL
	60+25 LT			M	63.0																																				
ACCESS ROAD NO. 2																																									
	34+86.35	31° LT		M									90.0																		1					1.35	8	288.0	11.5	S&F HEADWALL
	39+91.70	25° LT		M								123.3																								1.86	16	369.9		(2) S&F HEADWALL
	43+50 LT			M		57.0																																			
	48+50 LT			M	64.0																																				
OLD STILESVILLE ROAD																																									
	60+80 RT			M	56.0																																				
	65+00 RT			M	49.0																																				
	69+00			M										82.4							2																	288.4	12.9	(2) 0° SKEW PIPE CUL HDWLS
	71+50 RT			M	62.0																																				
	83+70 LT			M	54.0																																				
JOHNS LANE																																									
	32+70			M								42.0																						1		1.50	12	126.0	5.8	S&P HEADWALL
PROJECT TOTALS					1187.0	169.0	111.5			42.0	410.0	4055.1	1043.0	422.0	202.7	809.6	73.0	453.0	95.0	3781.7	4	2	6	2	2	2	8	8	2	2	12	1	11	10	1	1	60.66	1090	25391.2	755.6	

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
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PIPE DRAINAGE SUMMARY

PERFORATED PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R2L

STATIONS	PERFORATED PIPE - 4 IN	NON-PERFORATED PIPE - 4 IN	PERF PIPE HEADWALLS TY 1 - 4 INCH	TY 2 - 4 INCH	TY 3 - 4 INCH	TY 4 - 4 INCH	CRUSHED AGGREGATE SIZE NO. 2	REMARKS
ITEM CODE	1000	1010	1020	1024	1028	1032	78	
UNIT TO BID ON	LIN FT		EACH				TON	
4" PIPE @ EDGES								
325+10 -	132.00	200.0				1	1	TRANSVERSE DRAIN
339+15 -	132.00	50.0			1		1	TRANSVERSE DRAIN
349+55 -	132.00	50.0		1			1	TRANSVERSE DRAIN
351+00 -	170.00	95.0			1		1	TRANSVERSE DRAIN
352+55 -	132.00	28.0				1	1	TRANSVERSE DRAIN
354+30 -	170.00	100.0			1		1	TRANSVERSE DRAIN
358+70 -	165.00	65.0			1		1	TRANSVERSE DRAIN
367+75 -	132.00	150.0				1	1	TRANSVERSE DRAIN
370+70 -	132.00	120.0				1	1	TRANSVERSE DRAIN
377+80 -	145.00	140.0			1		1	TRANSVERSE DRAIN
382+20 -	132.00	125.0			1		1	TRANSVERSE DRAIN
400+05 -	138.00	120.0			1		1	TRANSVERSE DRAIN
404+25 - 407+25 RT	300.00	115.0	1				1	EMB BENCH
407+25 - 409+75 RT	250.00	115.0	1				1	EMB BENCH
452+20 -	132.00	50.0		1			1	TRANSVERSE DRAIN
459+65 -	132.00	78.0		1			1	TRANSVERSE DRAIN
468+25 - 469+75 LT	150.00	60.0		1			1	EMB BENCH
469+00 -	200.00	50.0			1		1	TRANSVERSE DRAIN
471+70 -	132.00	40.0			1		1	TRANSVERSE DRAIN
474+35 -	145.00	40.0			1		1	TRANSVERSE DRAIN
475+40 -	132.00	68.0			1		1	TRANSVERSE DRAIN
493+00 -	150.00	50.0			1		1	TRANSVERSE DRAIN
SUBTOTAL MAINLINE	3435.0	1909.0	2	4	12	4	22	

STATIONS	PERFORATED PIPE - 4 IN	NON-PERFORATED PIPE - 4 IN	PERF PIPE HEADWALLS TY 1 - 4 INCH	TY 2 - 4 INCH	TY 3 - 4 INCH	TY 4 - 4 INCH	CRUSHED AGGREGATE SIZE NO. 2	REMARKS
ITEM CODE	1000	1010	1020	1024	1028	1032	78	
UNIT TO BID ON	LIN FT		EACH				TON	
4" PIPE @ EDGES								
RACETRACK ROAD								
970+80	40	25				1	1	TRANSVERSE DRAIN
K BODIE ROAD								
3+15	40	25				1	1	TRANSVERSE DRAIN
KY 1247								
44+80	32	8			1		1	SUBGRADE DRAINAGE
51+50	32	8	1				1	SUBGRADE DRAINAGE
ACCESS ROAD NO. 1								
14+20	28	8		1			1	SUBGRADE DRAINAGE
15+15	40	15		1			1	TRANSVERSE DRAIN
17+35	40	15		1			1	TRANSVERSE DRAIN
18+40	40	15		1			1	TRANSVERSE DRAIN
20+30	40	15		1			1	TRANSVERSE DRAIN
22+10	40	45		1			1	TRANSVERSE DRAIN
23+75	40	15		1			1	TRANSVERSE DRAIN
25+10	40	15		1			1	TRANSVERSE DRAIN
30+20	40	75		1			1	TRANSVERSE DRAIN
39+50	28	8		1			1	SUBGRADE DRAINAGE
44+40	40	65		1			1	TRANSVERSE DRAIN
47+00	40	25		1			1	TRANSVERSE DRAIN
48+60	28	8		1			1	SUBGRADE DRAINAGE
49+40	40	25		1			1	TRANSVERSE DRAIN
NELSON VALLEY ROAD								
52+00	24	8			1		1	SUBGRADE DRAINAGE
CAMPGROUND ROAD								
71+70	40	90			1		1	TRANSVERSE DRAIN
73+50	40	40			1		1	TRANSVERSE DRAIN
OLD STILESVILLE ROAD								
63+35	40	80			1		1	TRANSVERSE DRAIN
69+00	34	8	1				1	SUBGRADE DRAINAGE
72+90	40	45			1		1	TRANSVERSE DRAIN
77+10	40	95			1		1	TRANSVERSE DRAIN
81+70	34	8			1		1	SUBGRADE DRAINAGE
ACCESS ROAD NO. 2								
34+15	28	8	1				1	SUBGRADE DRAINAGE
36+95	40	25	1				1	TRANSVERSE DRAIN
38+90	40	55		1			1	TRANSVERSE DRAIN
46+00	28	8		1			1	SUBGRADE DRAINAGE
SUBTOTAL SIDE ROADS	1096.0	885.0	4	16	8	2	30	
PROJECT TOTAL	4531.0	2794.0	6	20	20	6	52	

* - DENOTES HEADWALL AT THIS STATION

PIPE UNDERDRAIN SUMMARY

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: SP
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R3

CONVENTIONAL SIGNS

SURVEY LINE
GRADE LINE — 400' V.C.
GROUND LINE
COUNTY LINE
CORPORATE LIMITS
PROPERTY LINE
PROPOSED RIGHT OF WAY
RIGHT OF WAY MARKERS
BENCH MARK — B.M. NO.4
MUNICIPAL RIGHT OF WAY MARKER
RURAL RIGHT OF WAY MARKER
EXISTING ROAD
RAILROAD
FENCE (CONTROLLED ACCESS)
FENCE (EXCEPT STONE AND HEDGE)
TREES
PIPE CULVERT
CULVERT
BRIDGE
BUILDINGS — 1-S FRAME, 1-S BRICK, SHED, 2-S BRICK
GUARDRAIL — END TREATMENT, GUARD RAIL, TERMINAL SECTION

	EXISTING	PROPOSED
LIGHTING POLE		
POWER POLE		
JOINT POWER & TELEPHONE POLE		
TELEPHONE & TELEGRAPH POLE		
ANCHOR, POWER OR TELEPHONE		
STUB POWER		
STUB TELEPHONE		
WATER MAIN	6" WM	6" WM
GAS MAIN	6" GM	6" GM
TELEPHONE DUCT	TP4MTD	TP4MTD
ELECTRIC DUCT	EL4MTD	EL4MTD
TELEPHONE MANHOLE	TMH	TMH
ELECTRIC MANHOLE	EMH	EMH
SANITARY SEWER	54" SAN	54" SAN
STORM SEWER	54" STORM	54" STORM
DIRECT BURIAL ELECTRIC CABLE	E	E
DIRECT BURIAL TELEPHONE CABLE	T	T
TRAFFIC LIGHTS		

TOWER
STONE FENCE
HEDGE FENCE
SWAMP OR MARSH
SPRINGS
SINKHOLE
QUARRY SITE
SILT FENCE — SF
SILT CHECK TYPE 3
SILT TRAP A
SILT TRAP B
SILT CHECK TYPE 1
LARGE STREAM — KENTUCKY RIVER
SMALL STREAM
INTERMITTENT STREAM
LAKES OR PONDS
NORTH POINT

UTILITY OWNERS

WATER/SEWER/NATURAL GAS

Eubank Water System
P.O. Box 159
Eubank, KY 42567-0159
(606) 379-2211
Contact: Victor Howson, Mgr.

Southeastern Water Association
P.O. Box 778
147 East Somerset Church Road
Somerset, KY 42503
(606) 678-5501
Contact: Morris Vaughn, Mgr.

Science Hill Water
P.O. Box 97, 217 Langdon Street
Science Hill, Kentucky 42553
(606) 423-4109
Contact: Robbie Gossett, Manager

Somerset Gas Service
104 College Street
Somerset, KY 42501
(606) 678-4466
Contact: Bill Lowery, Mgr.

ELECTRIC

South Kentucky Rural Electric
Cooperative Corporation
P.O. Box 910
Somerset, KY 42502
(606) 678-4121
Contact: Allen Anderson, Mgr.

East Kentucky Power Coop, Inc.
P.O. Box 707
4775 Lexington Road
Winchester, KY 40392-0707
(859) 744-4812
Contact: Dominic Ballard, Engineering

Kentucky Utilities Company (Distribution)
500 Stone Road
Lexington, KY 40503-2913
(859) 367-4219
Contact: Kevin L. Long

Kentucky Utilities Company (Transmission)
One Quality Street
Lexington, KY 40507
(859) 367-5763
Contact: Kevin L. Long

TELEPHONE

Alltel Communications
111 S. Main Street
Elizabethtown, KY 42701-1418
(270) 765-1820
Contact: Barry Roberts, Prj. Engineer

CATV

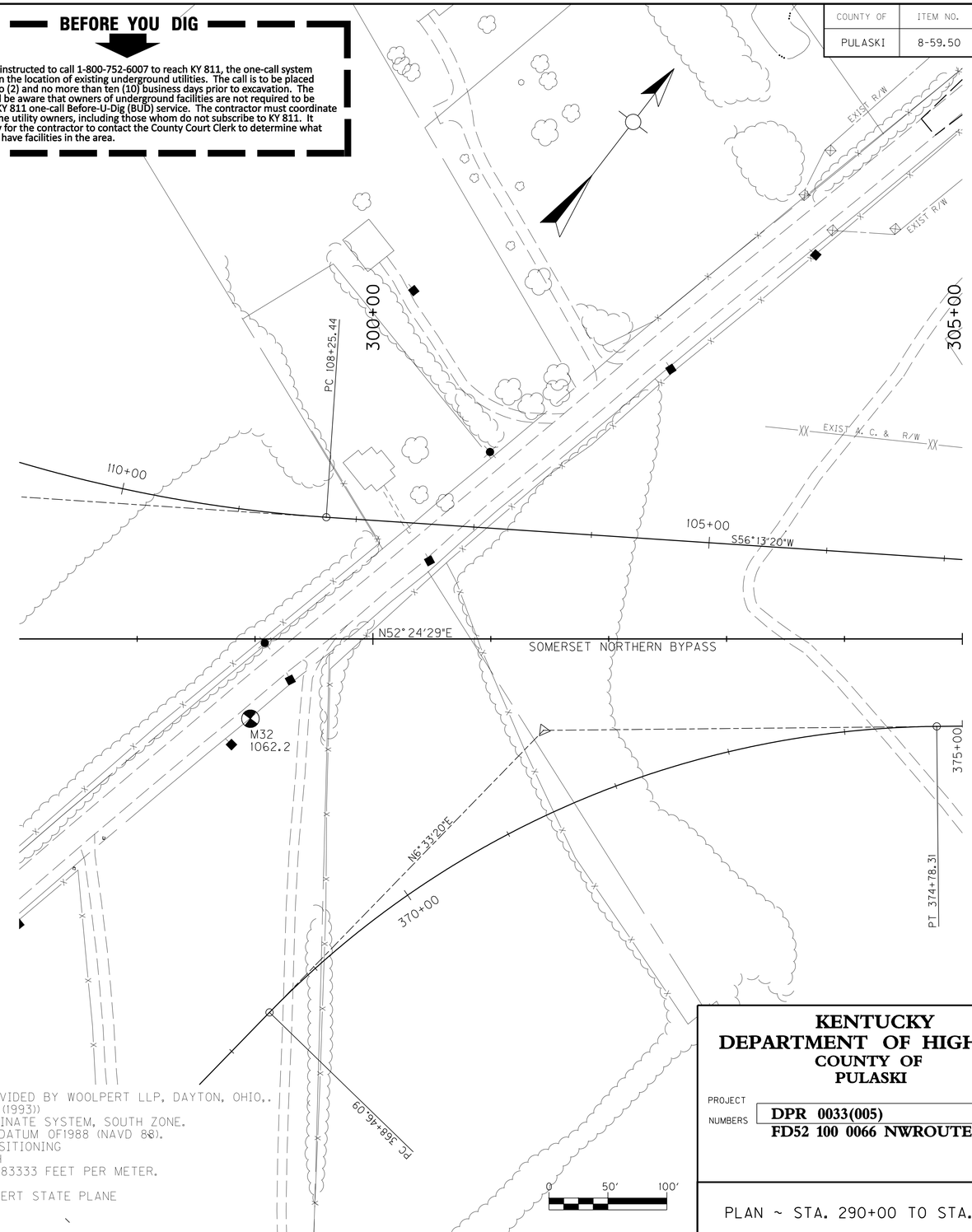
Charter Communications
5026 S. Hwy 27
Somerset, KY 42501
(606) 451-8368
Contact: Darrell Nave, Prj. Mgr.

RAILROAD

Norfolk-Southern Corporation
99 Soring Street, S.W.
Atlanta, GA 30303
(404) 527-2536
Contact: Tom Bracey, Kentucky

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.



ORIGIN OF LEVELS

HORIZONTAL AND VERTICAL CONTROL FOR THIS PROJECT WAS PROVIDED BY WOOLPERT LLP, DAYTON, OHIO,.
HORIZONTAL DATUM IS NORTH AMERICAN DATUM OF 1983 (NAD 83 (1993))
WITH FURTHER REFERENCE TO THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
THE SURVEY IS ALSO BASED ON THE NORTH AMERICAN VERTICAL DATUM OF1988 (NAVD 88).
ELEVATIONS WERE DERIVED FROM BOTH LEVELING AND GLOBAL POSITIONING
SYSTEMS (GPS) METHODS. CONVERSIONS FROM METRIC TO ENGLISH
UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION OF 3.28083333 FEET PER METER.
THE FOLLOWING STATIONS WERE FIXED: M9, M17 & M16.
A PROJECT SCALE FACTOR OF 1.00008608439 WAS USED TO CONVERT STATE PLANE
COORDINATES TO PROJECT MAPPING COORDINATES.

PREPARED BY JDO DATE 3/17/2014
CHECKED BY JDO DATE 3/17/2014
APPROVED BY DATE

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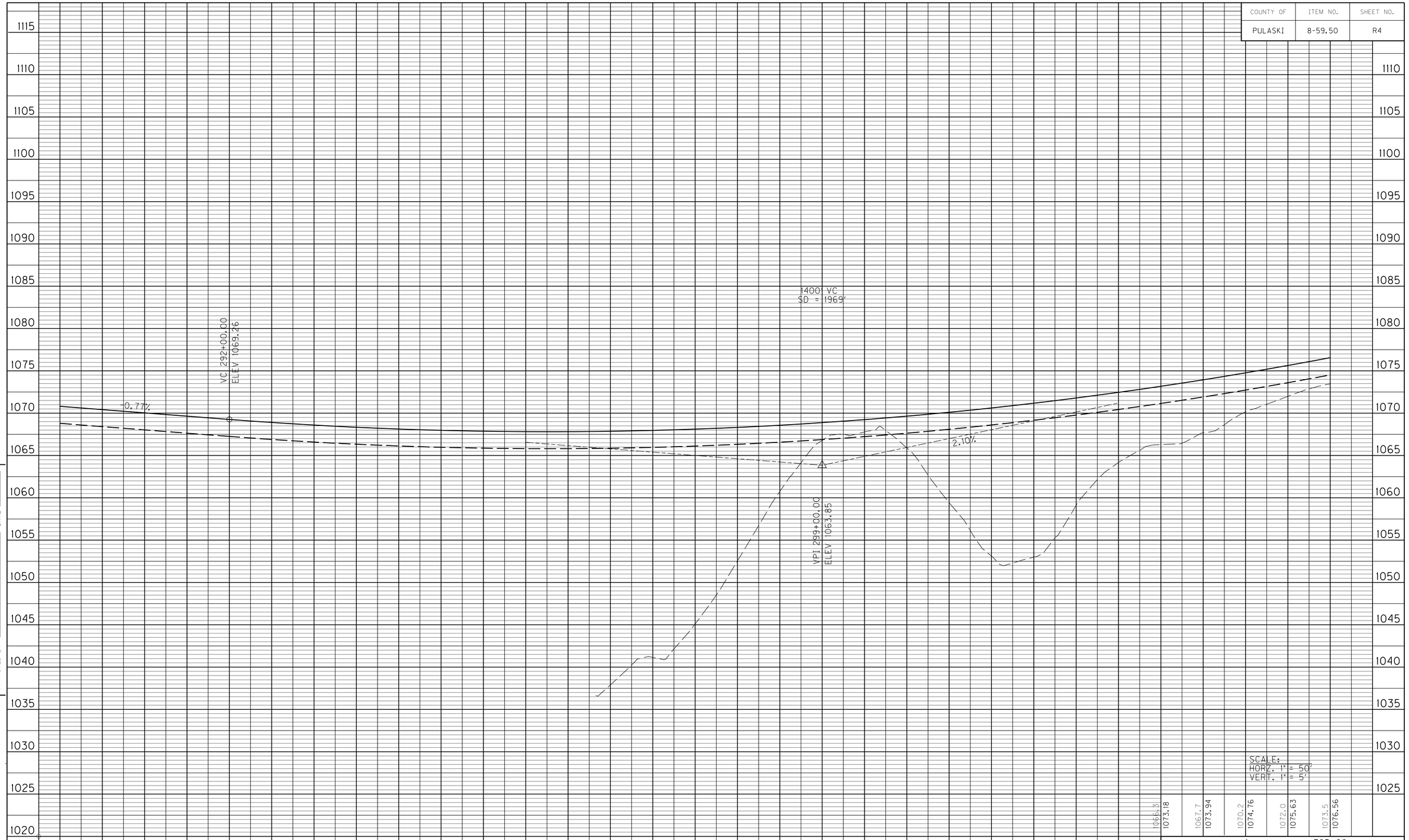
Cell Name: sp
3/17/2014

KENTUCKY DEPARTMENT OF HIGHWAYS
COUNTY OF PULASKI

PROJECT NUMBERS
DPR 0033(005)
FD52 100 0066 NWROUTE

PLAN ~ STA. 290+00 TO STA. 305+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R4



STA. 290+00 TO STA. 305+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: sp1
3/17/2014

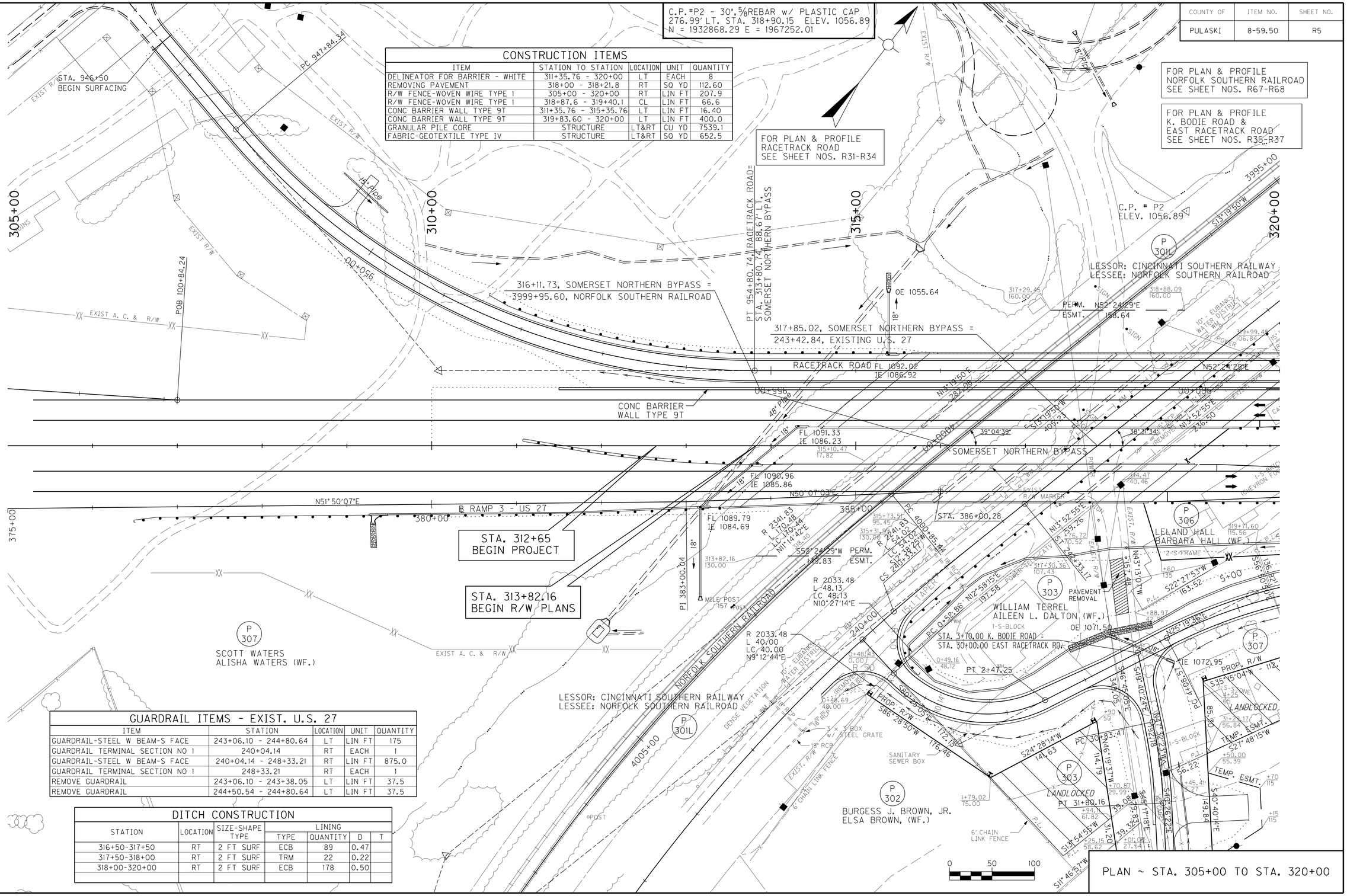
JDG
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R5

C.P. #P2 - 30", 5/8 REBAR w/ PLASTIC CAP
276.99' LT. STA. 318+90.15 ELEV. 1056.89
N = 1932868.29 E = 1967252.01

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
DELINEATOR FOR BARRIER - WHITE	311+35.76 - 320+00	LT	EACH	8
REMOVING PAVEMENT	318+00 - 318+21.8	RT	SQ YD	112.60
R/W FENCE-WOVEN WIRE TYPE 1	305+00 - 320+00	RT	LIN FT	207.9
R/W FENCE-WOVEN WIRE TYPE 1	318+87.6 - 319+40.1	CL	LIN FT	66.6
CONC BARRIER WALL TYPE 9T	311+35.76 - 315+35.76	LT	LIN FT	16.40
CONC BARRIER WALL TYPE 9T	319+83.60 - 320+00	LT	LIN FT	400.0
GRANULAR PILE CORE	STRUCTURE	LT&RT	CU YD	7539.1
FABRIC-GEOTEXTILE TYPE IV	STRUCTURE	LT&RT	SQ YD	652.5



PLAN ~ STA. 305+00 TO STA. 320+00

GUARDRAIL ITEMS - EXIST. U.S. 27

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL-STEEL W BEAM-S FACE	243+06.10 - 244+80.64	LT	LIN FT	175
GUARDRAIL TERMINAL SECTION NO 1	240+04.14	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	240+04.14 - 248+33.21	RT	LIN FT	875.0
GUARDRAIL TERMINAL SECTION NO 1	248+33.21	RT	EACH	1
REMOVE GUARDRAIL	243+06.10 - 243+38.05	LT	LIN FT	37.5
REMOVE GUARDRAIL	244+50.54 - 244+80.64	LT	LIN FT	37.5

DITCH CONSTRUCTION

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
316+50-317+50	RT	2 FT SURF	ECB	89	0.47	
317+50-318+00	RT	2 FT SURF	TRM	22	0.22	
318+00-320+00	RT	2 FT SURF	ECB	178	0.50	

		DATE
PREPARED BY	JDQ	3/17/2014
CHECKED BY	JDQ	3/17/2014
APPROVED BY		

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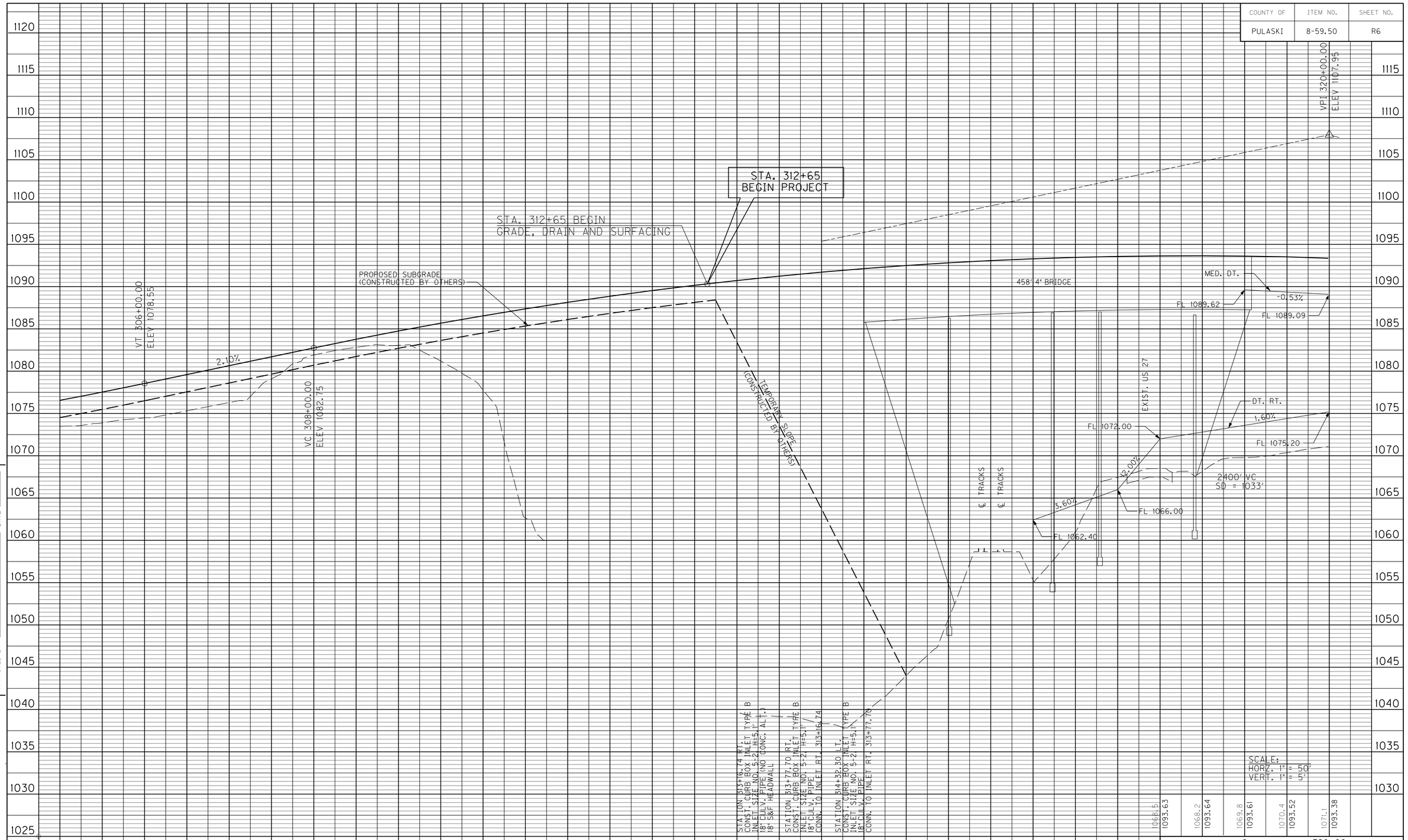
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R6



STA. 305+00 TO STA. 320+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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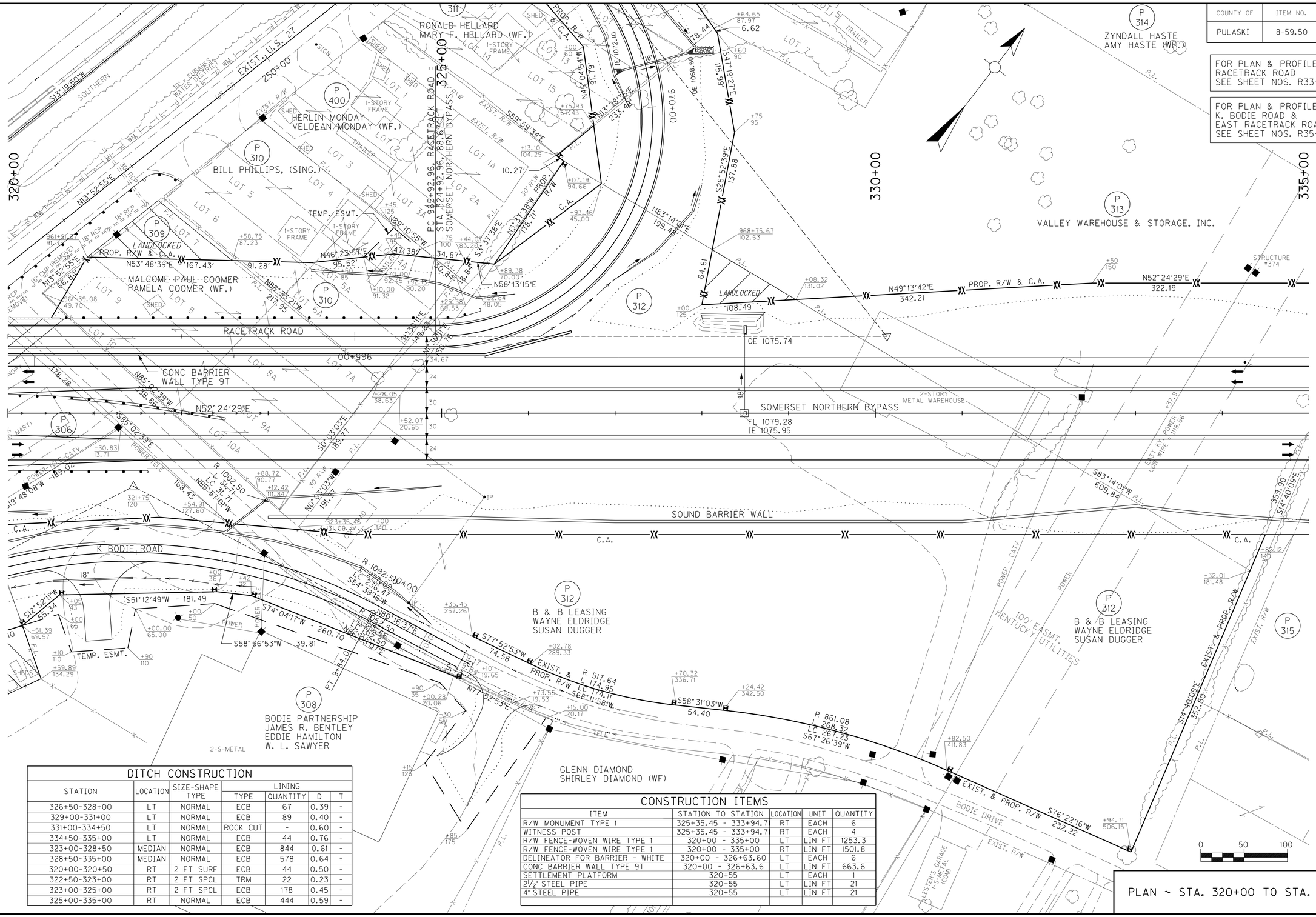
Cell Name: spf
3/17/2014

JDQ
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R7

FOR PLAN & PROFILE
RACETRACK ROAD
SEE SHEET NOS. R33-R34

FOR PLAN & PROFILE
K. BODIE ROAD &
EAST RACETRACK ROAD
SEE SHEET NOS. R35-R37



DITCH CONSTRUCTION

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
326+50-328+00	LT	NORMAL	ECB	67	0.39	-
329+00-331+00	LT	NORMAL	ECB	89	0.40	-
331+00-334+50	LT	NORMAL	ROCK CUT	-	0.60	-
334+50-335+00	LT	NORMAL	ECB	44	0.76	-
323+00-328+50	MEDIAN	NORMAL	ECB	844	0.61	-
328+50-335+00	MEDIAN	NORMAL	ECB	578	0.64	-
320+00-320+50	RT	2 FT SURF	ECB	44	0.50	-
322+50-323+00	RT	2 FT SPCL	TRM	22	0.23	-
323+00-325+00	RT	2 FT SPCL	ECB	178	0.45	-
325+00-335+00	RT	NORMAL	ECB	444	0.59	-

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W MONUMENT TYPE 1	325+35.45 - 333+94.71	RT	EACH	6
WITNESS POST	325+35.45 - 333+94.71	RT	EACH	4
R/W FENCE-WOVEN WIRE TYPE 1	320+00 - 335+00	LT	LIN FT	1253.3
R/W FENCE-WOVEN WIRE TYPE 1	320+00 - 335+00	RT	LIN FT	1501.8
DELINEATOR FOR BARRIER - WHITE	320+00 - 326+63.60	LT	EACH	6
CONC BARRIER WALL TYPE 9T	320+00 - 326+63.6	LT	LIN FT	663.6
SETTLEMENT PLATFORM	320+55	LT	EACH	1
2½" STEEL PIPE	320+55	LT	LIN FT	21
4" STEEL PIPE	320+55	LT	LIN FT	21

PLAN ~ STA. 320+00 TO STA. 335+00

PREPARED BY	JDO	DATE	3/17/2014
CHECKED BY	JDO	DATE	3/17/2014
APPROVED BY		DATE	

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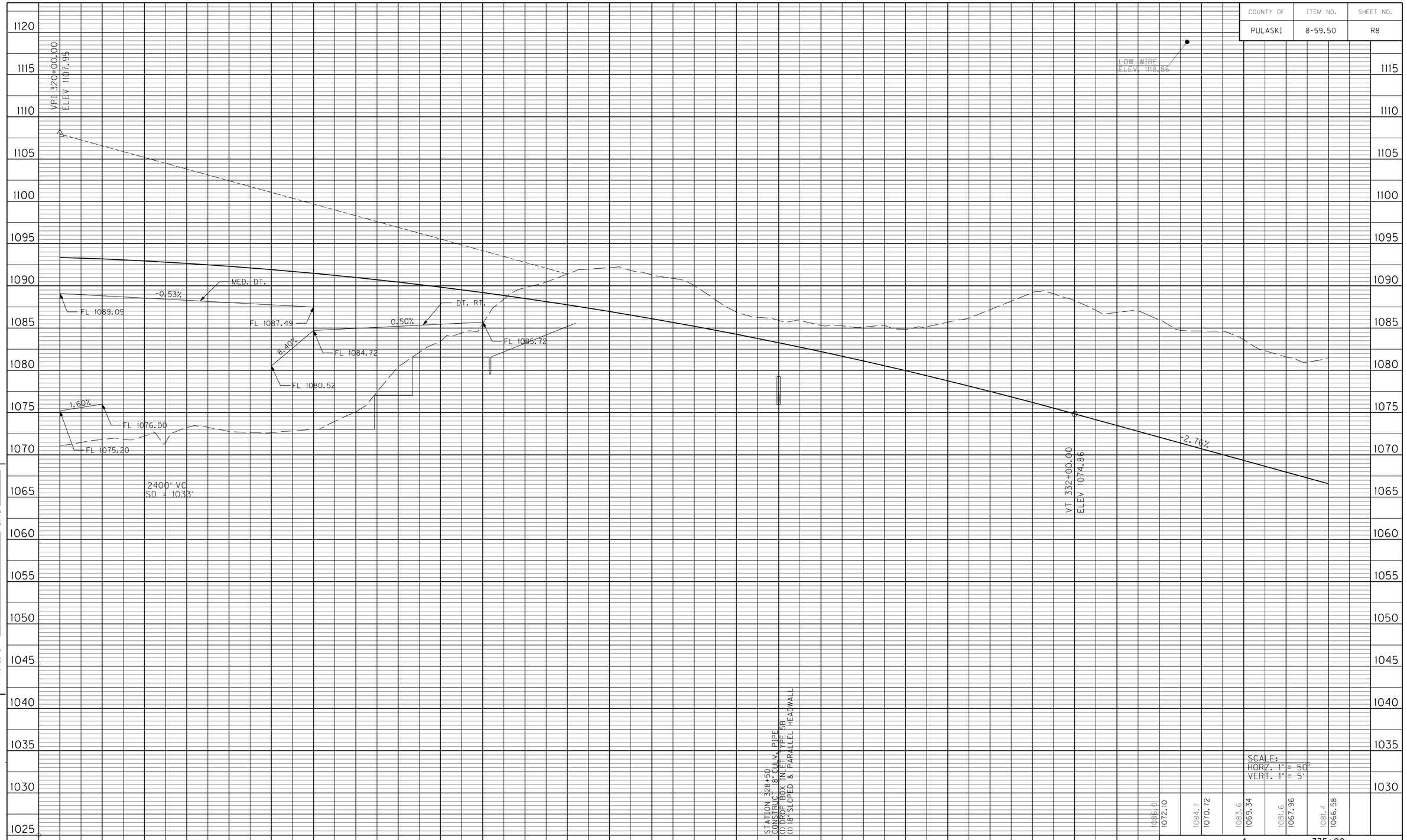
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R8



STA. 320+00 TO STA. 335+00

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APPROVED BY _____ DATE _____

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Cell Names: sp1
3/17/2014

JDQ
L-92
FORM NO. 4

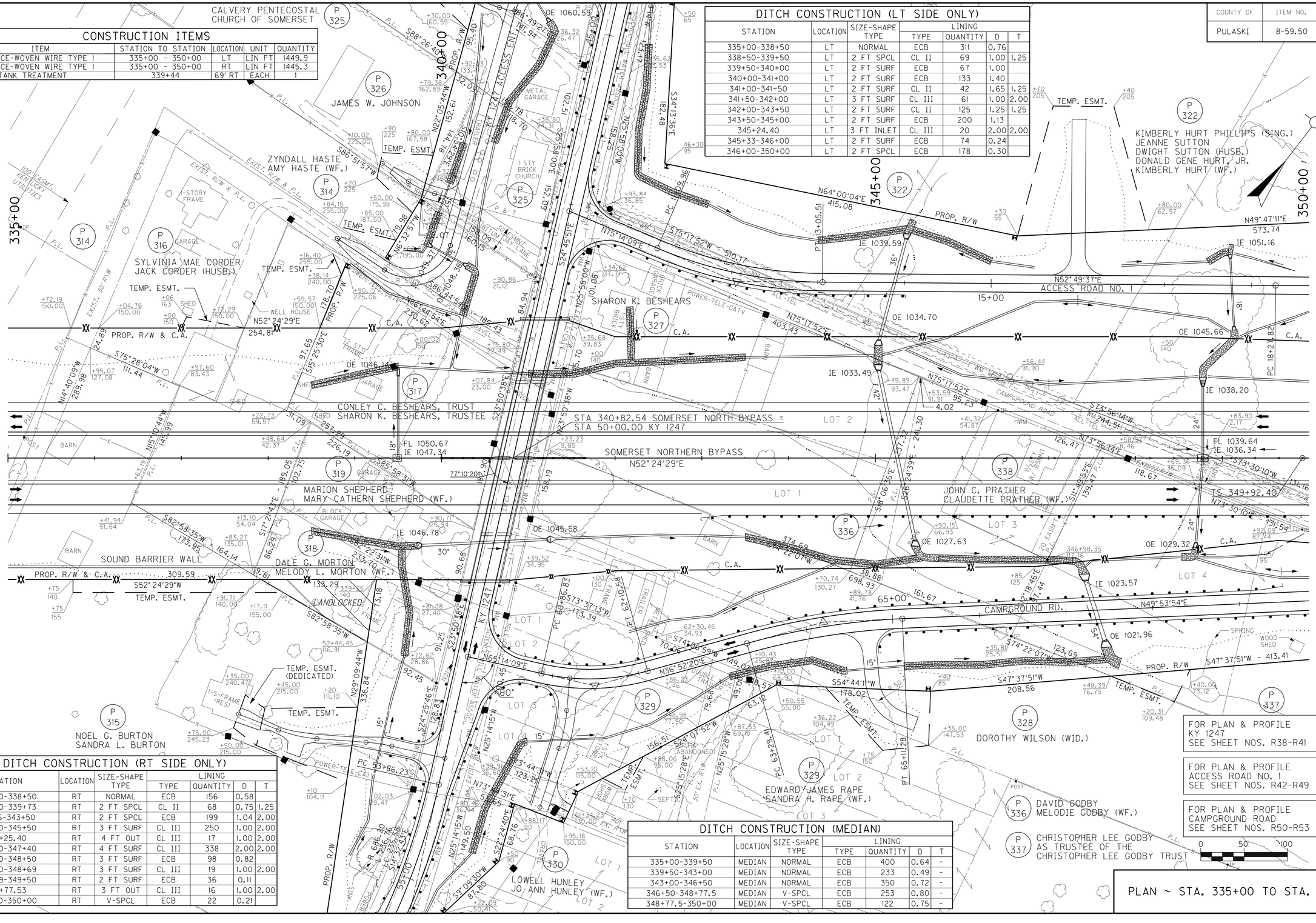
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R9

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W FENCE-WOVEN WIRE TYPE 1	335+00 - 350+00	LT	LIN FT	1449.9
R/W FENCE-WOVEN WIRE TYPE 1	335+00 - 350+00	RT	LIN FT	1445.3
SEPTIC TANK TREATMENT	339+44	69' RT	EACH	1

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
335+00-338+50	LT	NORMAL	ECB	311	0.76	
338+50-339+50	LT	2 FT SPCL	CL II	69	1.00	1.25
339+50-340+00	LT	2 FT SURF	ECB	67	1.00	
340+00-341+00	LT	2 FT SURF	ECB	133	1.40	
341+00-341+50	LT	2 FT SURF	CL II	42	1.65	1.25
341+50-342+00	LT	3 FT SURF	CL III	61	1.00	2.00
342+00-343+50	LT	2 FT SURF	CL II	125	1.25	1.25
343+50-345+00	LT	2 FT SURF	ECB	200	1.13	
345+24.40	LT	3 FT INLET	CL III	20	2.00	2.00
345+33-346+00	LT	2 FT SURF	ECB	74	0.24	
346+00-350+00	LT	2 FT SPCL	ECB	178	0.30	



DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
335+00-338+50	RT	NORMAL	ECB	156	0.58	
338+50-339+73	RT	2 FT SPCL	CL II	68	0.75	1.25
341+26-343+50	RT	2 FT SPCL	ECB	199	1.04	2.00
343+50-345+50	RT	3 FT SURF	CL III	250	1.00	2.00
345+25.40	RT	4 FT OUT	CL III	17	1.00	2.00
345+50-347+40	RT	4 FT SURF	CL III	338	2.00	2.00
347+40-348+50	RT	3 FT SURF	ECB	98	0.82	
348+50-348+69	RT	3 FT SURF	CL III	19	1.00	2.00
348+69-349+50	RT	2 FT SURF	ECB	36	0.11	
348+77.53	RT	3 FT OUT	CL III	16	1.00	2.00
349+50-350+00	RT	V-SPCL	ECB	22	0.21	

DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
335+00-339+50	MEDIAN	NORMAL	ECB	400	0.64	-
339+50-343+00	MEDIAN	NORMAL	ECB	233	0.49	-
343+00-346+50	MEDIAN	NORMAL	ECB	350	0.72	-
346+50-348+77.5	MEDIAN	V-SPCL	ECB	253	0.80	-
348+77.5-350+00	MEDIAN	V-SPCL	ECB	122	0.75	-

FOR PLAN & PROFILE
KY 1247
SEE SHEET NOS. R38-R41

FOR PLAN & PROFILE
ACCESS ROAD NO. 1
SEE SHEET NOS. R42-R49

FOR PLAN & PROFILE
CAMPGROUND ROAD
SEE SHEET NOS. R50-R53

0 50 100

PLAN ~ STA. 335+00 TO STA. 350+00

		DATE
PREPARED BY	JDQ	3/17/2014
CHECKED BY	JDQ	3/17/2014
APPROVED BY		

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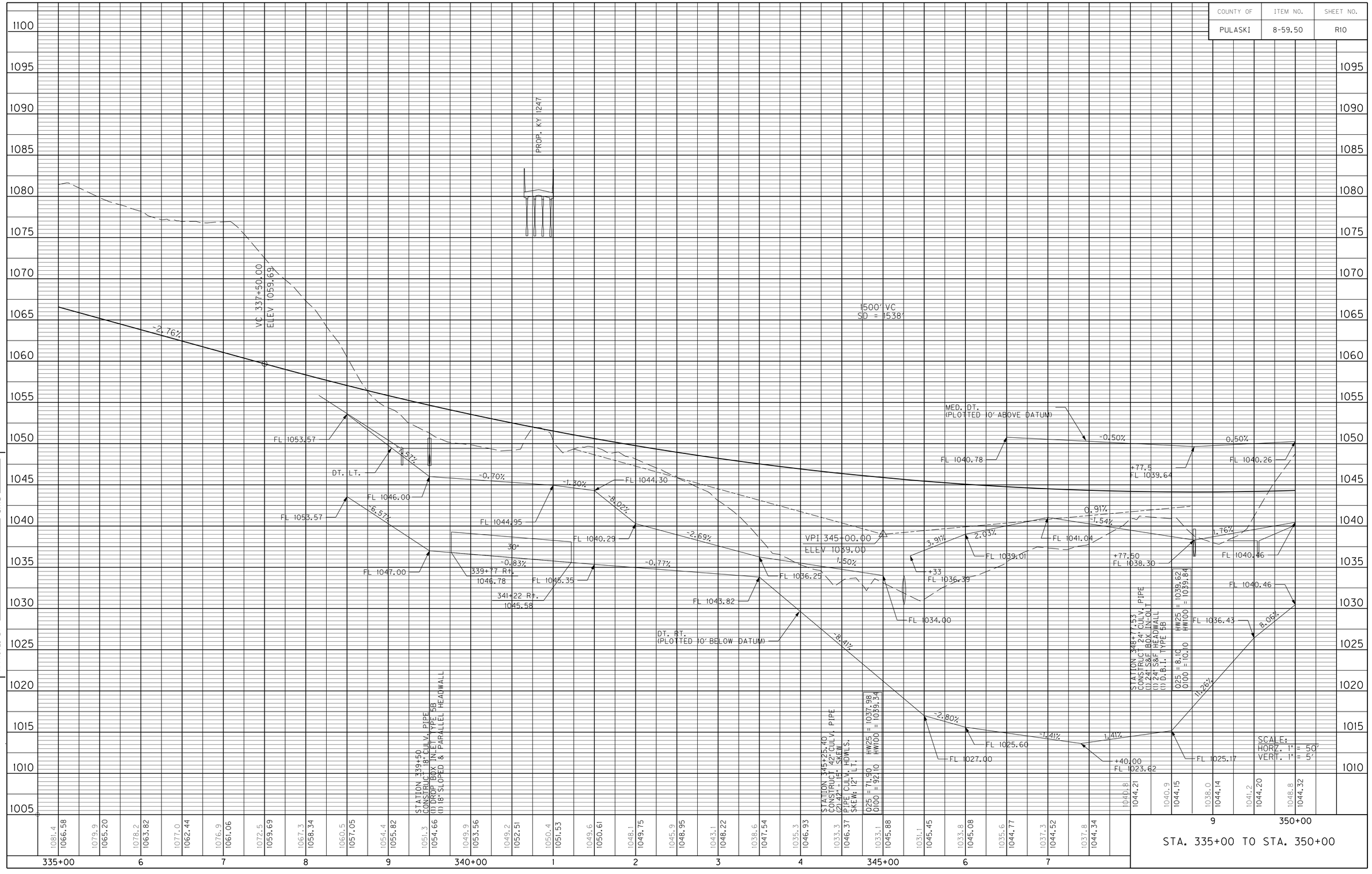
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R10



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CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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3/17/2014

JDQ
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R11

CONSTRUCTION ITEMS

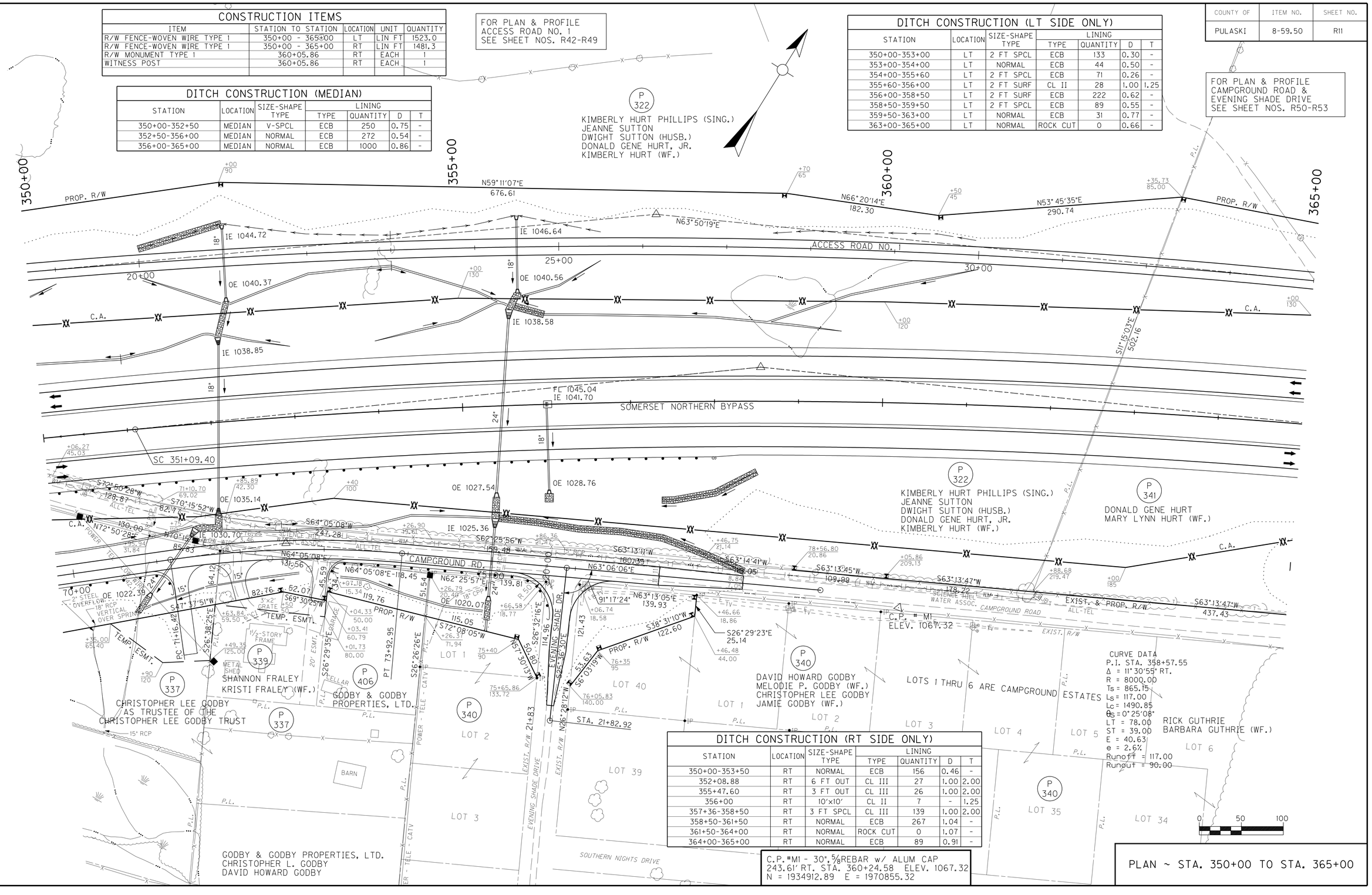
ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W FENCE-WOVEN WIRE TYPE 1	350+00 - 365+00	LT	LIN FT	1523.0
R/W FENCE-WOVEN WIRE TYPE 1	350+00 - 365+00	RT	LIN FT	1481.3
R/W MONUMENT TYPE 1	360+05.86	RT	EACH	1
WITNESS POST	360+05.86	RT	EACH	1

DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
350+00-352+50	MEDIAN	V-SPCL	ECB	250	0.75	-
352+50-356+00	MEDIAN	NORMAL	ECB	272	0.54	-
356+00-365+00	MEDIAN	NORMAL	ECB	1000	0.86	-

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
350+00-353+00	LT	2 FT SPCL	ECB	133	0.30	-
353+00-354+00	LT	NORMAL	ECB	44	0.50	-
354+00-355+60	LT	2 FT SPCL	ECB	71	0.26	-
355+60-356+00	LT	2 FT SURF	CL II	28	1.00	1.25
356+00-358+50	LT	2 FT SURF	ECB	222	0.62	-
358+50-359+50	LT	2 FT SPCL	ECB	89	0.55	-
359+50-363+00	LT	NORMAL	ECB	31	0.77	-
363+00-365+00	LT	NORMAL	ROCK CUT	0	0.66	-



DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
350+00-353+50	RT	NORMAL	ECB	156	0.46	-
352+08.88	RT	6 FT OUT	CL III	27	1.00	2.00
355+47.60	RT	3 FT OUT	CL III	26	1.00	2.00
356+00	RT	10'x10'	CL II	7	-	1.25
357+36-358+50	RT	3 FT SPCL	CL III	139	1.00	2.00
358+50-361+50	RT	NORMAL	ECB	267	1.04	-
361+50-364+00	RT	NORMAL	ROCK CUT	0	1.07	-
364+00-365+00	RT	NORMAL	ECB	89	0.91	-

C.P. #MI - 30", 5/8 REBAR w/ ALUM CAP
243.61' RT. STA. 360+24.58 ELEV. 1067.32
N = 1934912.89 E = 1970855.32

PLAN ~ STA. 350+00 TO STA. 365+00

PREPARED BY	JDO	DATE 3/17/2014
CHECKED BY	JDO	DATE 3/17/2014
APPROVED BY		DATE

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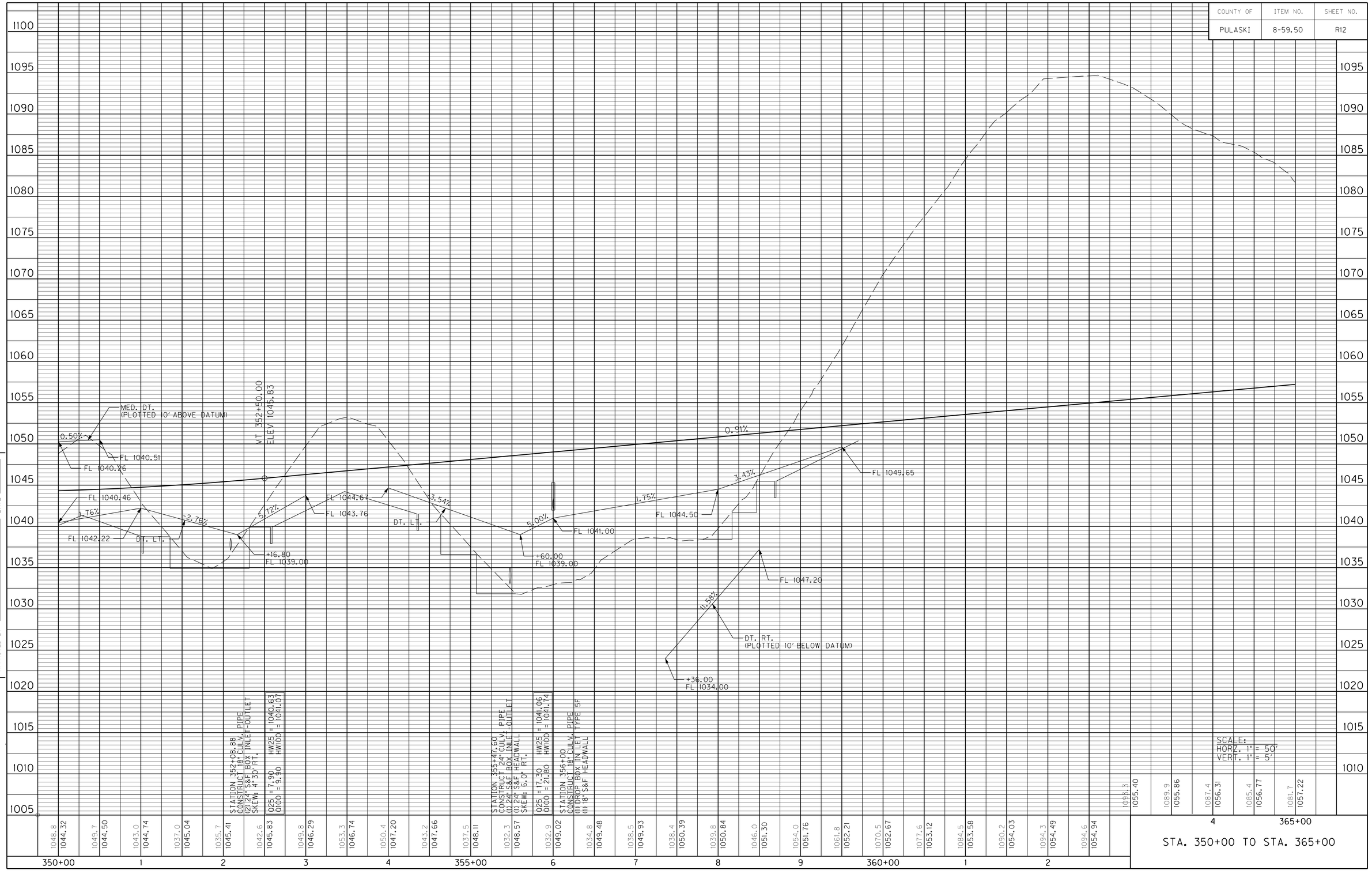
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R12



STA. 350+00 TO STA. 365+00

PREPARED BY _____ DATE _____
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APPROVED BY _____ DATE _____

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Cell Names: sp4
3/17/2014

JDQ
L-52
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R13

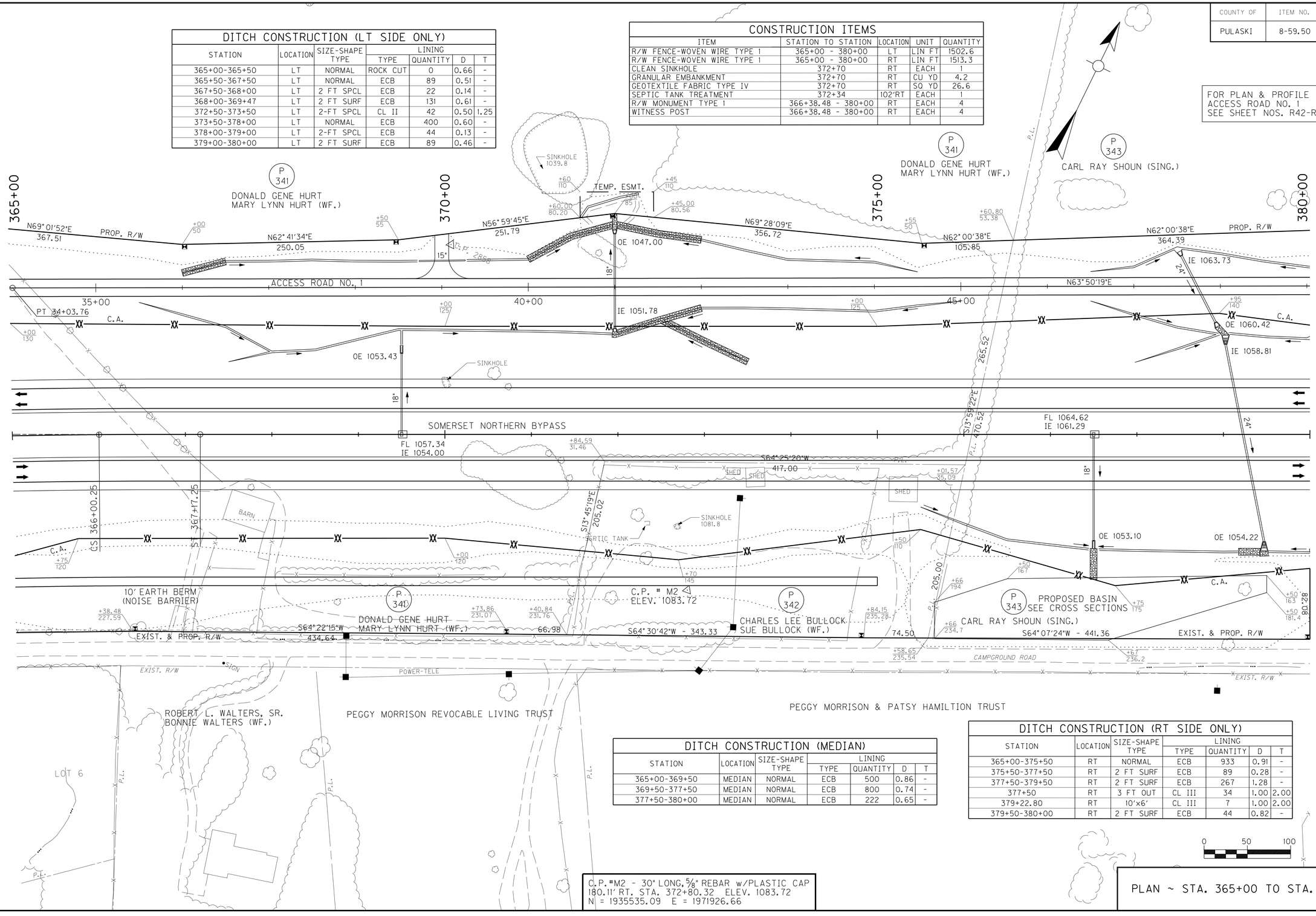
DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
365+00-365+50	LT	NORMAL	ROCK CUT	0	0.66	-
365+50-367+50	LT	NORMAL	ECB	89	0.51	-
367+50-368+00	LT	2 FT SPCL	ECB	22	0.14	-
368+00-369+47	LT	2 FT SURF	ECB	131	0.61	-
372+50-373+50	LT	2-FT SPCL	CL II	42	0.50	1.25
373+50-378+00	LT	NORMAL	ECB	400	0.60	-
378+00-379+00	LT	2-FT SPCL	ECB	44	0.13	-
379+00-380+00	LT	2 FT SURF	ECB	89	0.46	-

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W FENCE-WOVEN WIRE TYPE 1	365+00 - 380+00	LT	LIN FT	1502.6
R/W FENCE-WOVEN WIRE TYPE 1	365+00 - 380+00	RT	LIN FT	1513.3
CLEAN SINKHOLE	372+70	RT	EACH	1
GRANULAR EMBANKMENT	372+70	RT	CU YD	4.2
GEOTEXTILE FABRIC TYPE IV	372+70	RT	SQ YD	26.6
SEPTIC TANK TREATMENT	372+34	102'RT	EACH	1
R/W MONUMENT TYPE 1	366+38.48 - 380+00	RT	EACH	4
WITNESS POST	366+38.48 - 380+00	RT	EACH	4

FOR PLAN & PROFILE
ACCESS ROAD NO. 1
SEE SHEET NOS. R42-R49



DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
365+00-369+50	MEDIAN	NORMAL	ECB	500	0.86	-
369+50-377+50	MEDIAN	NORMAL	ECB	800	0.74	-
377+50-380+00	MEDIAN	NORMAL	ECB	222	0.65	-

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
365+00-375+50	RT	NORMAL	ECB	933	0.91	-
375+50-377+50	RT	2 FT SURF	ECB	89	0.28	-
377+50-379+50	RT	2 FT SURF	ECB	267	1.28	-
377+50	RT	3 FT OUT	CL III	34	1.00	2.00
379+22.80	RT	10'x6'	CL III	7	1.00	2.00
379+50-380+00	RT	2 FT SURF	ECB	44	0.82	-

C.P. #M2 - 30" LONG, 5/8" REBAR w/PLASTIC CAP
180.11' RT. STA. 372+80.32 ELEV. 1083.72
N = 1935535.09 E = 1971926.66

0 50 100

PLAN ~ STA. 365+00 TO STA. 380+00

PREPARED BY JDO DATE 3/17/2014
CHECKED BY JDO DATE 3/17/2014
APPROVED BY DATE

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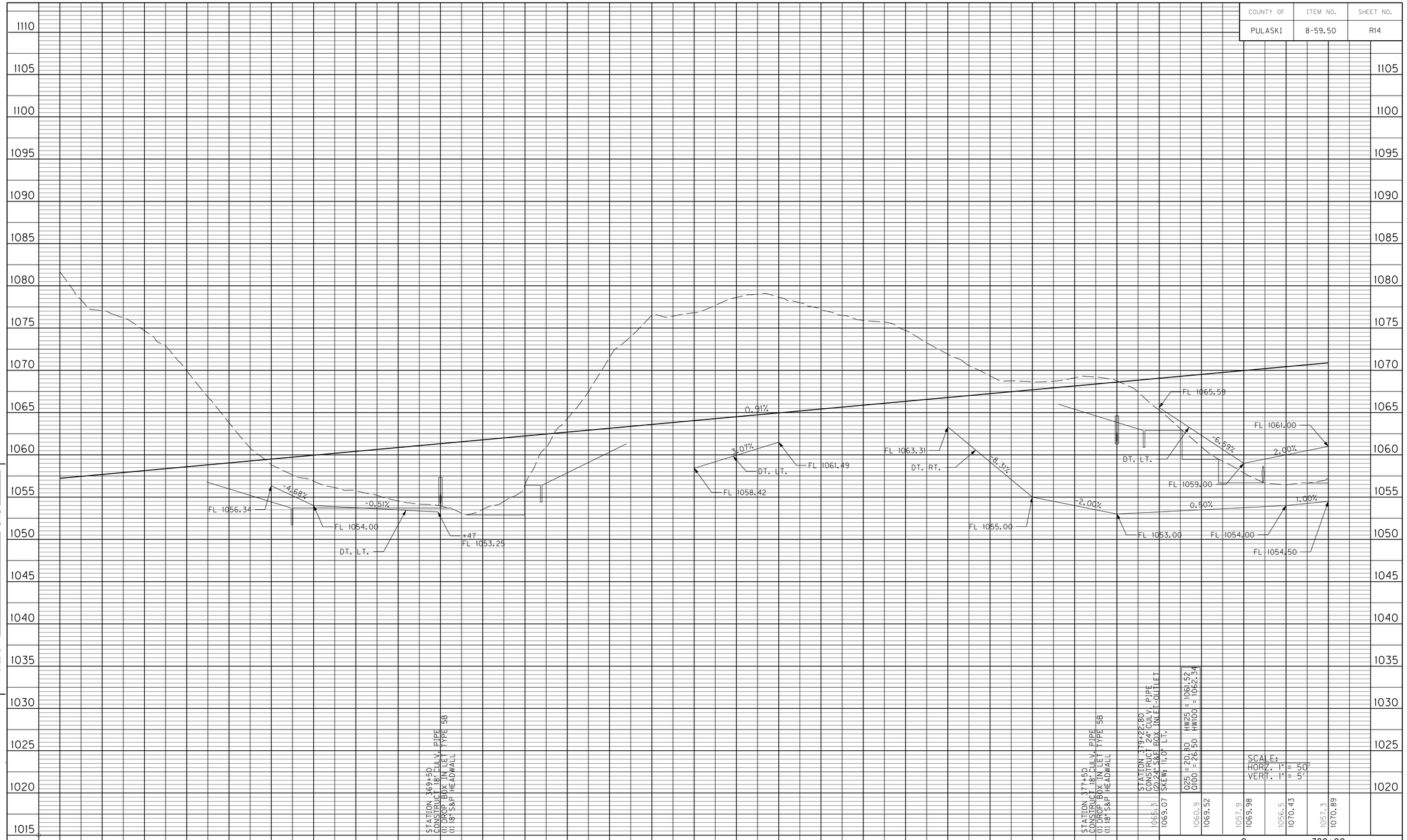
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R14



STA. 365+00 TO STA. 380+00

PREPARED BY _____ DATE _____
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3/17/2014

JDQ
L-52
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R15

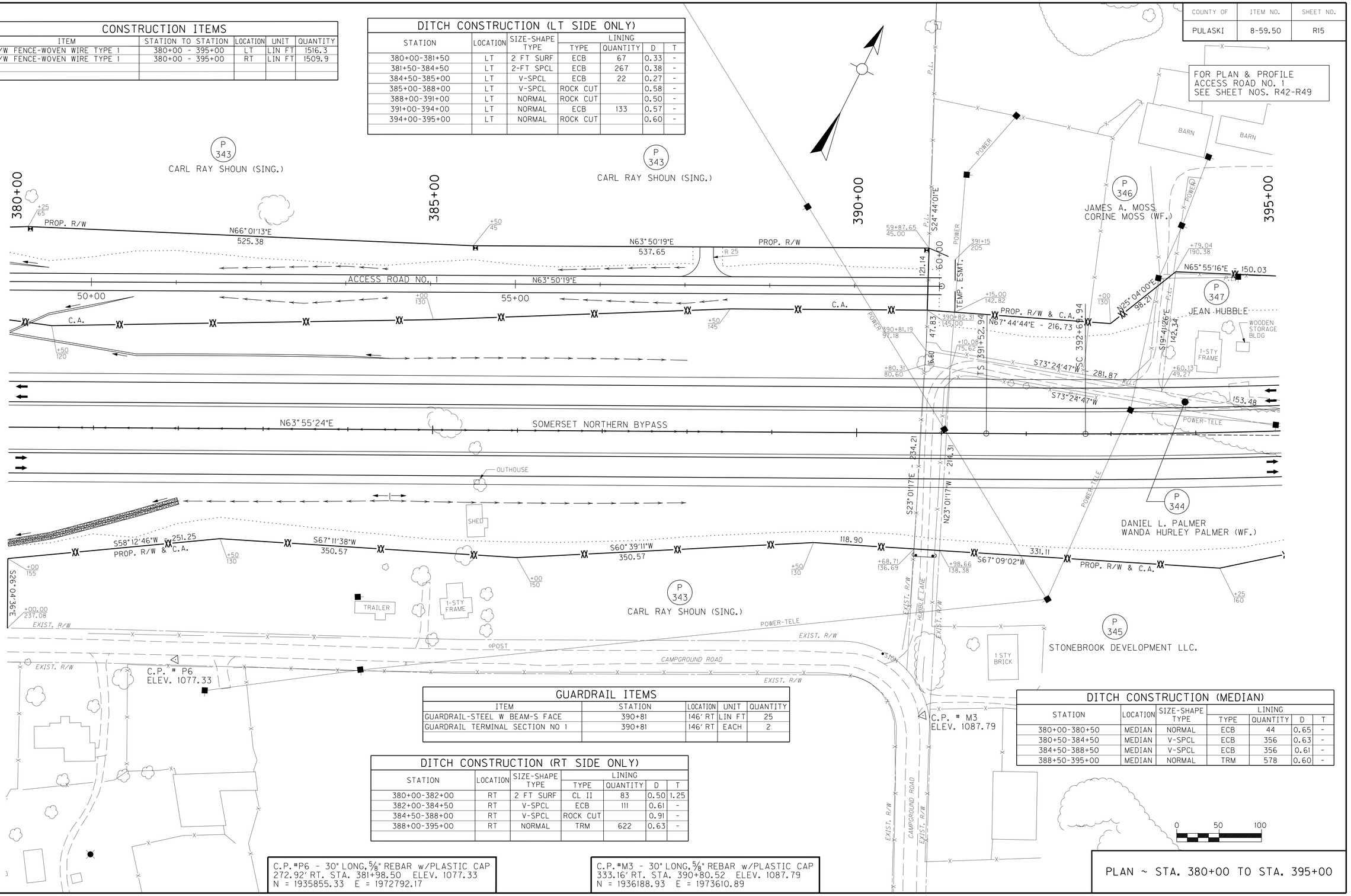
FOR PLAN & PROFILE
ACCESS ROAD NO. 1
SEE SHEET NOS. R42-R49

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W FENCE-WOVEN WIRE TYPE 1	380+00 - 395+00	LT	LIN FT	1516.3
R/W FENCE-WOVEN WIRE TYPE 1	380+00 - 395+00	RT	LIN FT	1509.9

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
380+00-381+50	LT	2 FT SURF	ECB	67	0.33	-
381+50-384+50	LT	2-FT SPCL	ECB	267	0.38	-
384+50-385+00	LT	V-SPCL	ECB	22	0.27	-
385+00-388+00	LT	V-SPCL	ROCK CUT		0.58	-
388+00-391+00	LT	NORMAL	ROCK CUT		0.50	-
391+00-394+00	LT	NORMAL	ECB	133	0.57	-
394+00-395+00	LT	NORMAL	ROCK CUT		0.60	-



GUARDRAIL ITEMS

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL-STEEL W BEAM-S FACE	390+81	146' RT	LIN FT	25
GUARDRAIL TERMINAL SECTION NO 1	390+81	146' RT	EACH	2

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
380+00-382+00	RT	2 FT SURF	CL II	83	0.50	1.25
382+00-384+50	RT	V-SPCL	ECB	111	0.61	-
384+50-388+00	RT	V-SPCL	ROCK CUT		0.91	-
388+00-395+00	RT	NORMAL	TRM	622	0.63	-

DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
380+00-380+50	MEDIAN	NORMAL	ECB	44	0.65	-
380+50-384+50	MEDIAN	V-SPCL	ECB	356	0.63	-
384+50-388+50	MEDIAN	V-SPCL	ECB	356	0.61	-
388+50-395+00	MEDIAN	NORMAL	TRM	578	0.60	-

C.P. #P6 - 30" LONG, 5/8" REBAR w/PLASTIC CAP
272.92' RT. STA. 381+98.50 ELEV. 1077.33
N = 1935855.33 E = 1972792.17

C.P. #M3 - 30" LONG, 5/8" REBAR w/PLASTIC CAP
333.16' RT. STA. 390+80.52 ELEV. 1087.79
N = 1936188.93 E = 1973610.89

PLAN ~ STA. 380+00 TO STA. 395+00

PREPARED BY JDO DATE 3/17/2014
CHECKED BY JDO DATE 3/17/2014
APPROVED BY DATE

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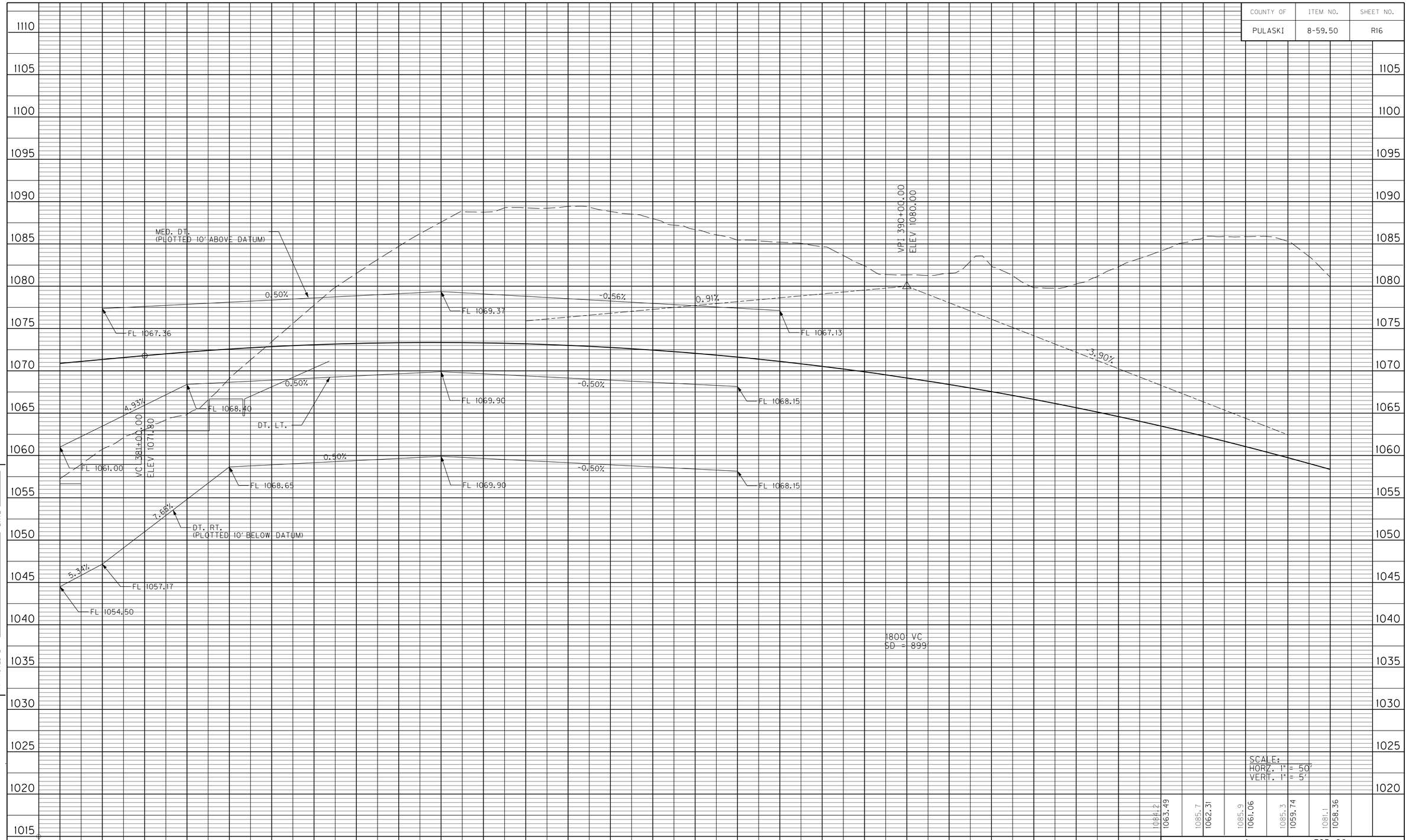
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R16



STA. 380+00 TO STA. 395+00

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CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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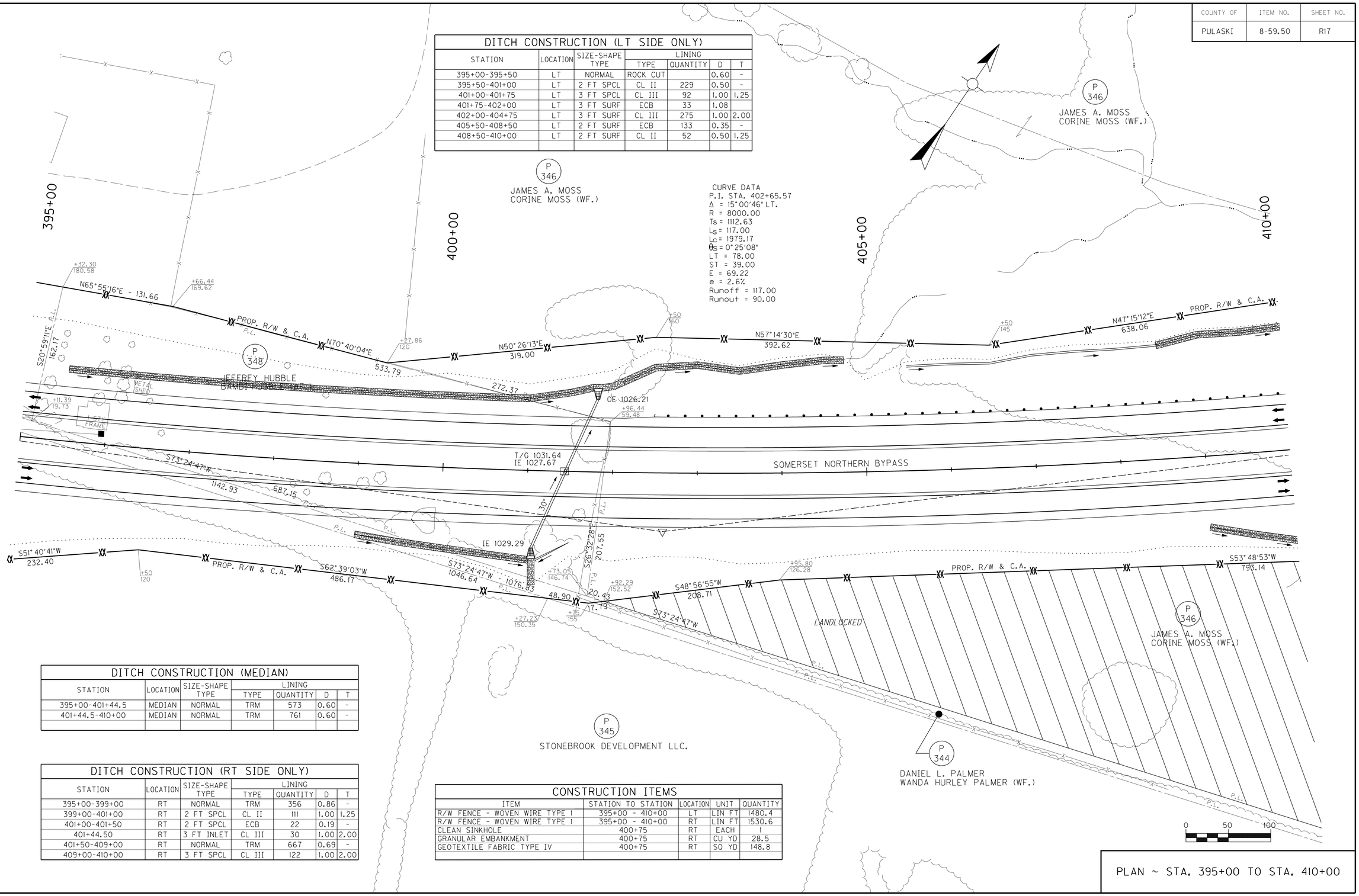
Cell Name: spf
3/17/2014

JDQ
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R17

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
395+00-395+50	LT	NORMAL	ROCK CUT		0.60	-
395+50-401+00	LT	2 FT SPCL	CL II	229	0.50	-
401+00-401+75	LT	3 FT SPCL	CL III	92	1.00	1.25
401+75-402+00	LT	3 FT SURF	ECB	33	1.08	
402+00-404+75	LT	3 FT SURF	CL III	275	1.00	2.00
405+50-408+50	LT	2 FT SURF	ECB	133	0.35	-
408+50-410+00	LT	2 FT SURF	CL II	52	0.50	1.25



DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
395+00-401+44.5	MEDIAN	NORMAL	TRM	573	0.60	-
401+44.5-410+00	MEDIAN	NORMAL	TRM	761	0.60	-

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
395+00-399+00	RT	NORMAL	TRM	356	0.86	-
399+00-401+00	RT	2 FT SPCL	CL II	111	1.00	1.25
401+00-401+50	RT	2 FT SPCL	ECB	22	0.19	-
401+44.50	RT	3 FT INLET	CL III	30	1.00	2.00
401+50-409+00	RT	NORMAL	TRM	667	0.69	-
409+00-410+00	RT	3 FT SPCL	CL III	122	1.00	2.00

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W FENCE - WOVEN WIRE TYPE 1	395+00 - 410+00	LT	LIN FT	1480.4
R/W FENCE - WOVEN WIRE TYPE 1	395+00 - 410+00	RT	LIN FT	1530.6
CLEAN SINKHOLE	400+75	RT	EACH	1
GRANULAR EMBANKMENT	400+75	RT	CU YD	28.5
GEOTEXTILE FABRIC TYPE IV	400+75	RT	SQ YD	148.8

PREPARED BY JDQ DATE 3/17/2014
CHECKED BY JDQ DATE 3/17/2014
APPROVED BY DATE

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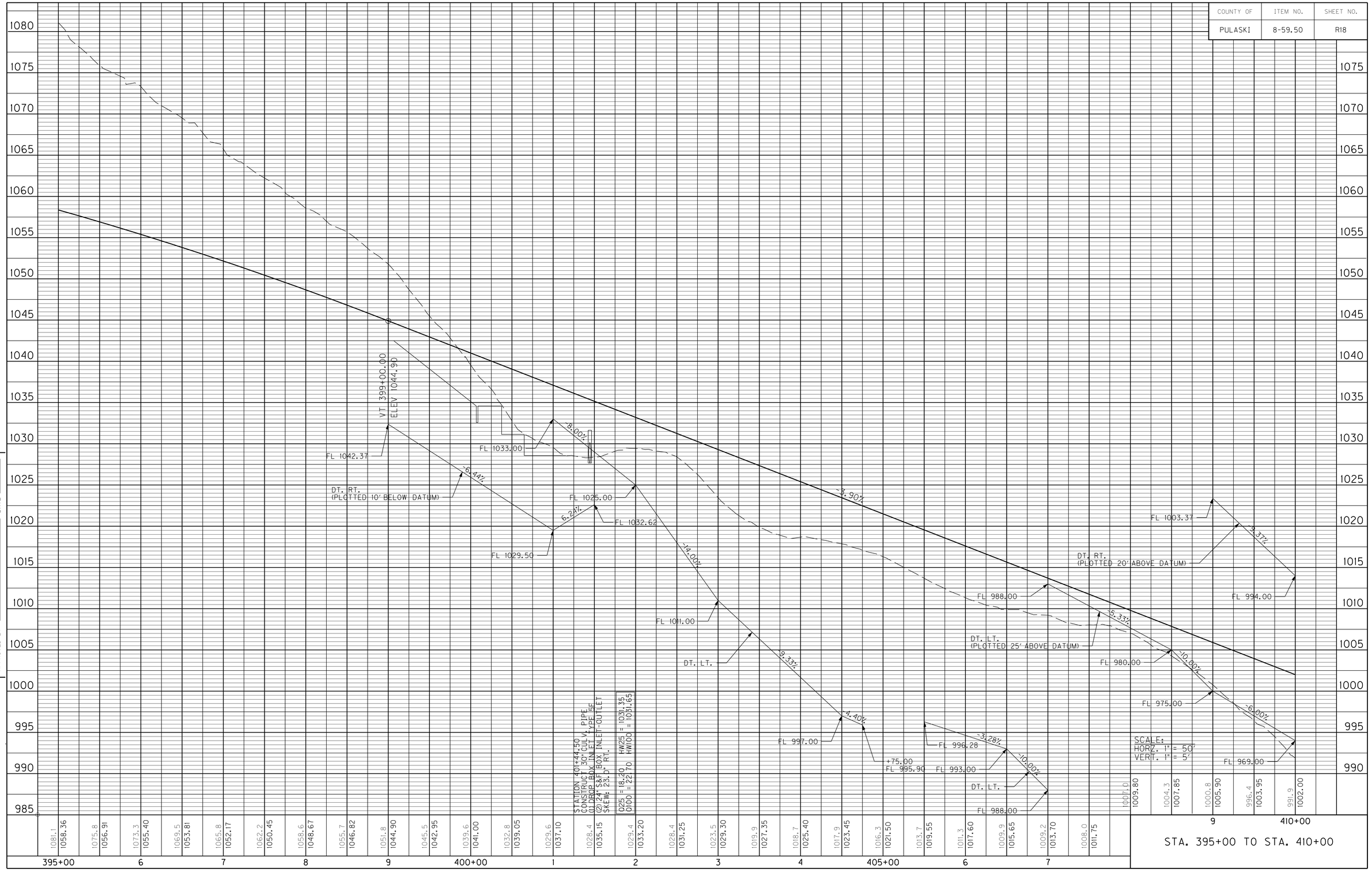
3/17/2014

PLAN ~ STA. 395+00 TO STA. 410+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R18



STA. 395+00 TO STA. 410+00

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APPROVED BY _____ DATE _____

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Cell Name: sp4
3/17/2014

JDQ
L-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R19

C.P. #P9 - 30" LONG, 5/8" REBAR w/PLASTIC CAP
1567.97' LT. STA. 415+60.72 ELEV. 1060.38
N = 1939050.02 E = 1974483.60

C.P. #M7 - 30" LONG, 5/8" REBAR w/PLASTIC CAP
647.99' LT. STA. 421+99.63 ELEV. 994.41
N = 1938776.55 E = 1975569.78

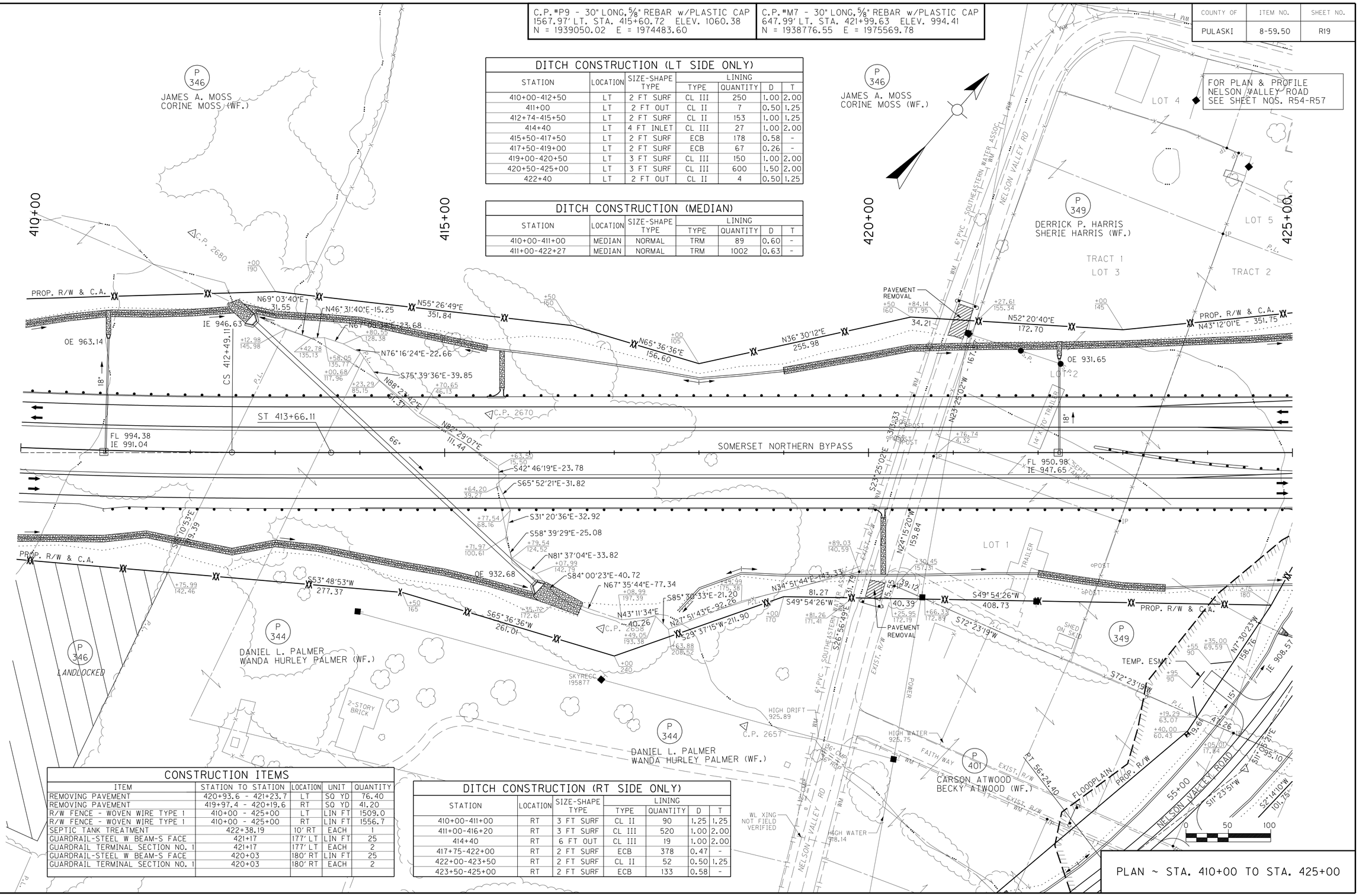
FOR PLAN & PROFILE
NELSON VALLEY ROAD
SEE SHEET NOS. R54-R57

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
410+00-412+50	LT	2 FT SURF	CL III	250	1.00	2.00
411+00	LT	2 FT OUT	CL II	7	0.50	1.25
412+74-415+50	LT	2 FT SURF	CL II	153	1.00	1.25
414+40	LT	4 FT INLET	CL III	27	1.00	2.00
415+50-417+50	LT	2 FT SURF	ECB	178	0.58	-
417+50-419+00	LT	2 FT SURF	ECB	67	0.26	-
419+00-420+50	LT	3 FT SURF	CL III	150	1.00	2.00
420+50-425+00	LT	3 FT SURF	CL III	600	1.50	2.00
422+40	LT	2 FT OUT	CL II	4	0.50	1.25

DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
410+00-411+00	MEDIAN	NORMAL	TRM	89	0.60	-
411+00-422+27	MEDIAN	NORMAL	TRM	1002	0.63	-



CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
REMOVING PAVEMENT	420+93.6 - 421+23.7	LT	SQ YD	76.40
REMOVING PAVEMENT	419+97.4 - 420+19.6	RT	SQ YD	41.20
R/W FENCE - WOVEN WIRE TYPE 1	410+00 - 425+00	LT	LIN FT	1509.0
R/W FENCE - WOVEN WIRE TYPE 1	410+00 - 425+00	RT	LIN FT	1556.7
SEPTIC TANK TREATMENT	422+38.19	10' RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	421+17	177' LT	LIN FT	25
GUARDRAIL TERMINAL SECTION NO. 1	421+17	177' LT	EACH	2
GUARDRAIL-STEEL W BEAM-S FACE	420+03	180' RT	LIN FT	25
GUARDRAIL TERMINAL SECTION NO. 1	420+03	180' RT	EACH	2

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
410+00-411+00	RT	3 FT SURF	CL II	90	1.25	1.25
411+00-416+20	RT	3 FT SURF	CL III	520	1.00	2.00
414+40	RT	6 FT OUT	CL III	19	1.00	2.00
417+75-422+00	RT	2 FT SURF	ECB	378	0.47	-
422+00-423+50	RT	2 FT SURF	CL II	52	0.50	1.25
423+50-425+00	RT	2 FT SURF	ECB	133	0.58	-

PLAN ~ STA. 410+00 TO STA. 425+00

PREPARED BY JDO DATE 3/17/2014
CHECKED BY JDO DATE 3/17/2014
APPROVED BY DATE

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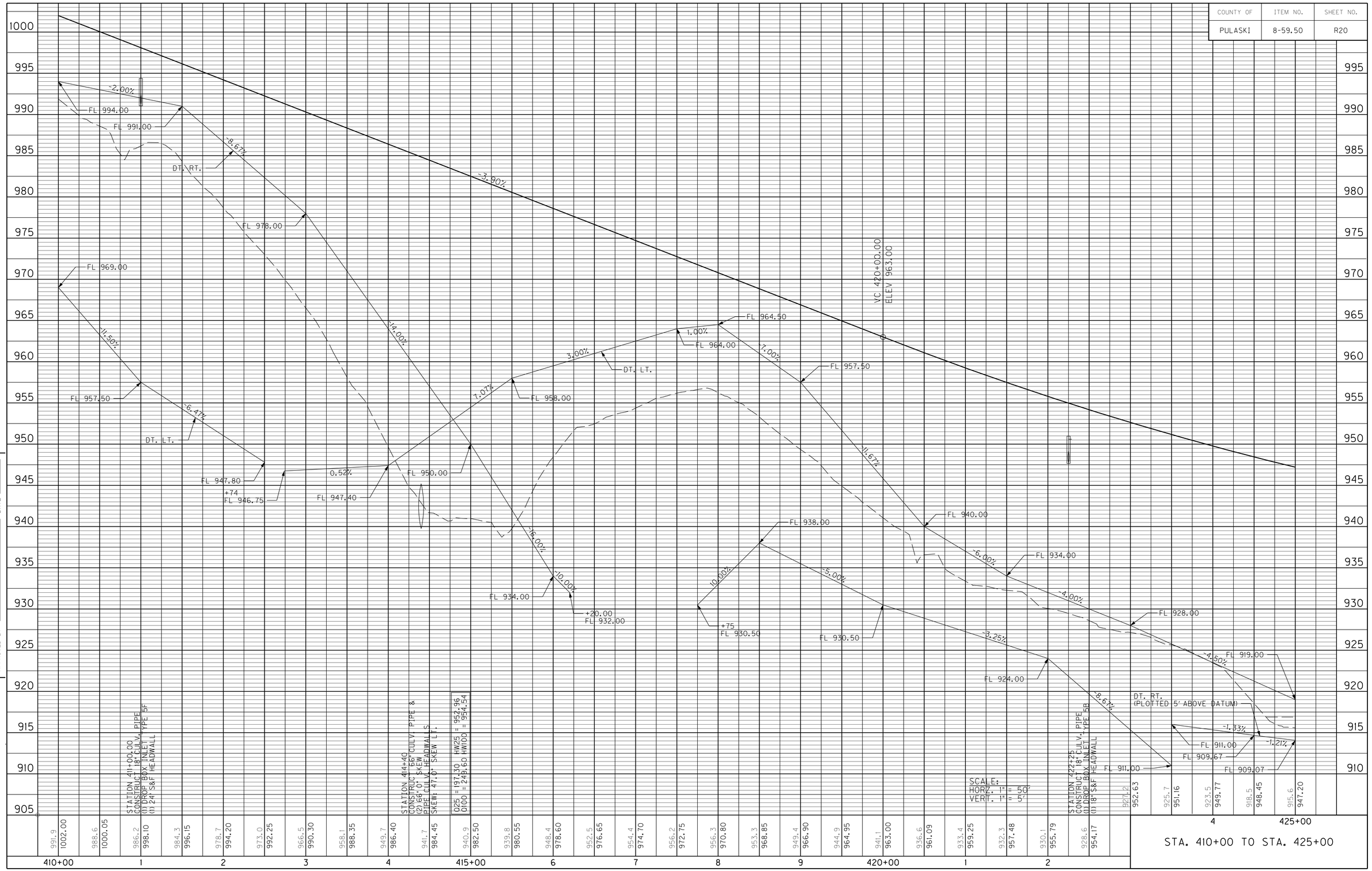
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R20



STA. 410+00 TO STA. 425+00

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3/17/2014

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1-92
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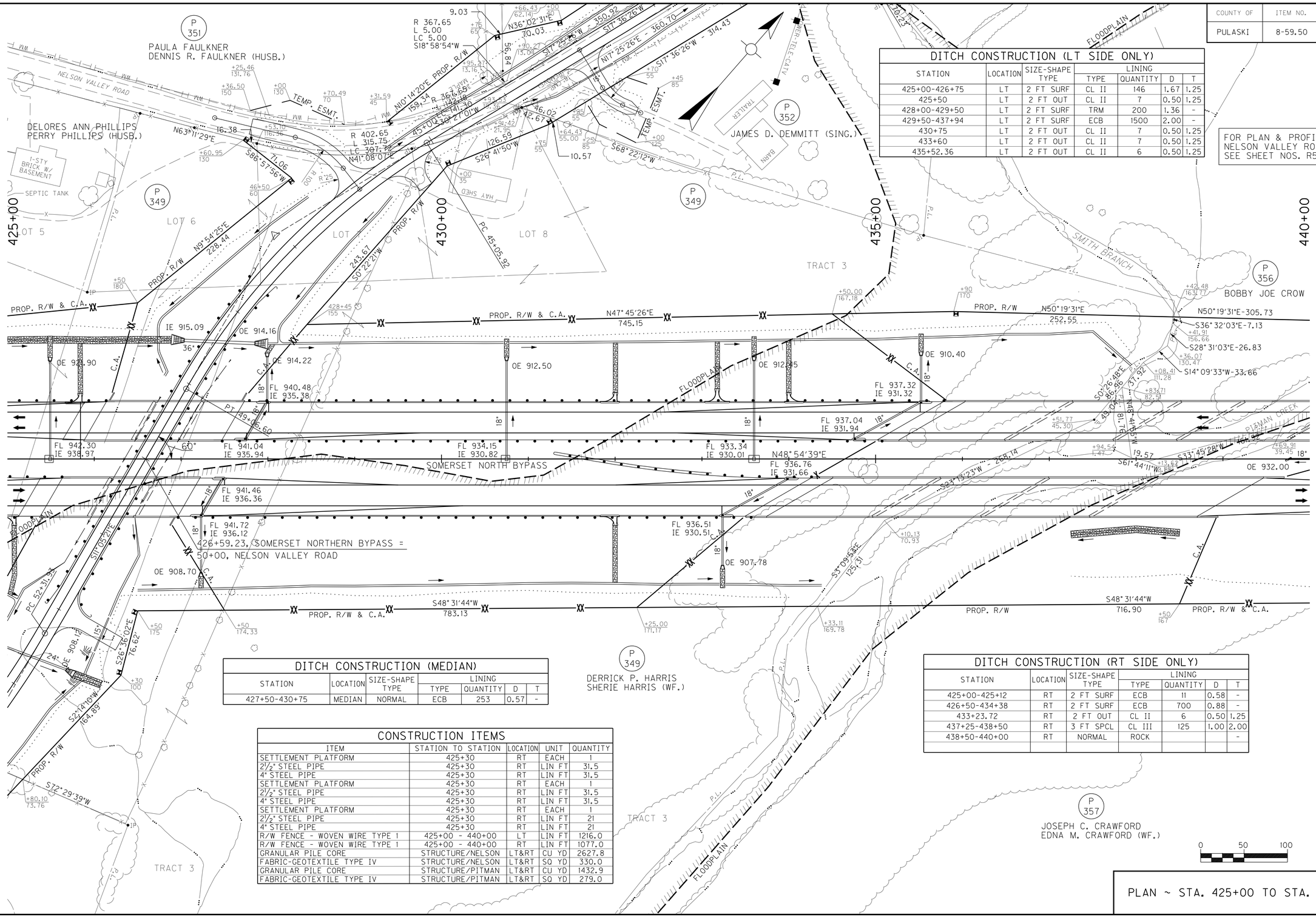
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R21



FOR PLAN & PROFILE
NELSON VALLEY ROAD
SEE SHEET NOS. R54-R57

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
425+00-426+75	LT	2 FT SURF	CL II	146	1.67	1.25
425+50	LT	2 FT OUT	CL II	7	0.50	1.25
428+00-429+50	LT	2 FT SURF	TRM	200	1.36	-
429+50-437+94	LT	2 FT SURF	ECB	1500	2.00	-
430+75	LT	2 FT OUT	CL II	7	0.50	1.25
433+60	LT	2 FT OUT	CL II	7	0.50	1.25
435+52.36	LT	2 FT OUT	CL II	6	0.50	1.25

DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
427+50-430+75	MEDIAN	NORMAL	ECB	253	0.57	-

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
425+00-425+12	RT	2 FT SURF	ECB	11	0.58	-
426+50-434+38	RT	2 FT SURF	ECB	700	0.88	-
433+23.72	RT	2 FT OUT	CL II	6	0.50	1.25
437+25-438+50	RT	3 FT SPCL	CL III	125	1.00	2.00
438+50-440+00	RT	NORMAL	ROCK			-

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
SETTLEMENT PLATFORM	425+30	RT	EACH	1
2½" STEEL PIPE	425+30	RT	LIN FT	31.5
4" STEEL PIPE	425+30	RT	LIN FT	31.5
SETTLEMENT PLATFORM	425+30	RT	EACH	1
2½" STEEL PIPE	425+30	RT	LIN FT	31.5
4" STEEL PIPE	425+30	RT	LIN FT	31.5
SETTLEMENT PLATFORM	425+30	RT	EACH	1
2½" STEEL PIPE	425+30	RT	LIN FT	21
4" STEEL PIPE	425+30	RT	LIN FT	21
R/W FENCE - WOVEN WIRE TYPE 1	425+00 - 440+00	LT	LIN FT	1216.0
R/W FENCE - WOVEN WIRE TYPE 1	425+00 - 440+00	RT	LIN FT	1077.0
GRANULAR PILE CORE	STRUCTURE/NELSON	LT&RT	CU YD	2627.8
FABRIC-GEOTEXTILE TYPE IV	STRUCTURE/NELSON	LT&RT	SQ YD	330.0
GRANULAR PILE CORE	STRUCTURE/PITMAN	LT&RT	CU YD	1432.9
FABRIC-GEOTEXTILE TYPE IV	STRUCTURE/PITMAN	LT&RT	SQ YD	279.0

PREPARED BY JDO DATE 3/17/2014
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APPROVED BY DATE

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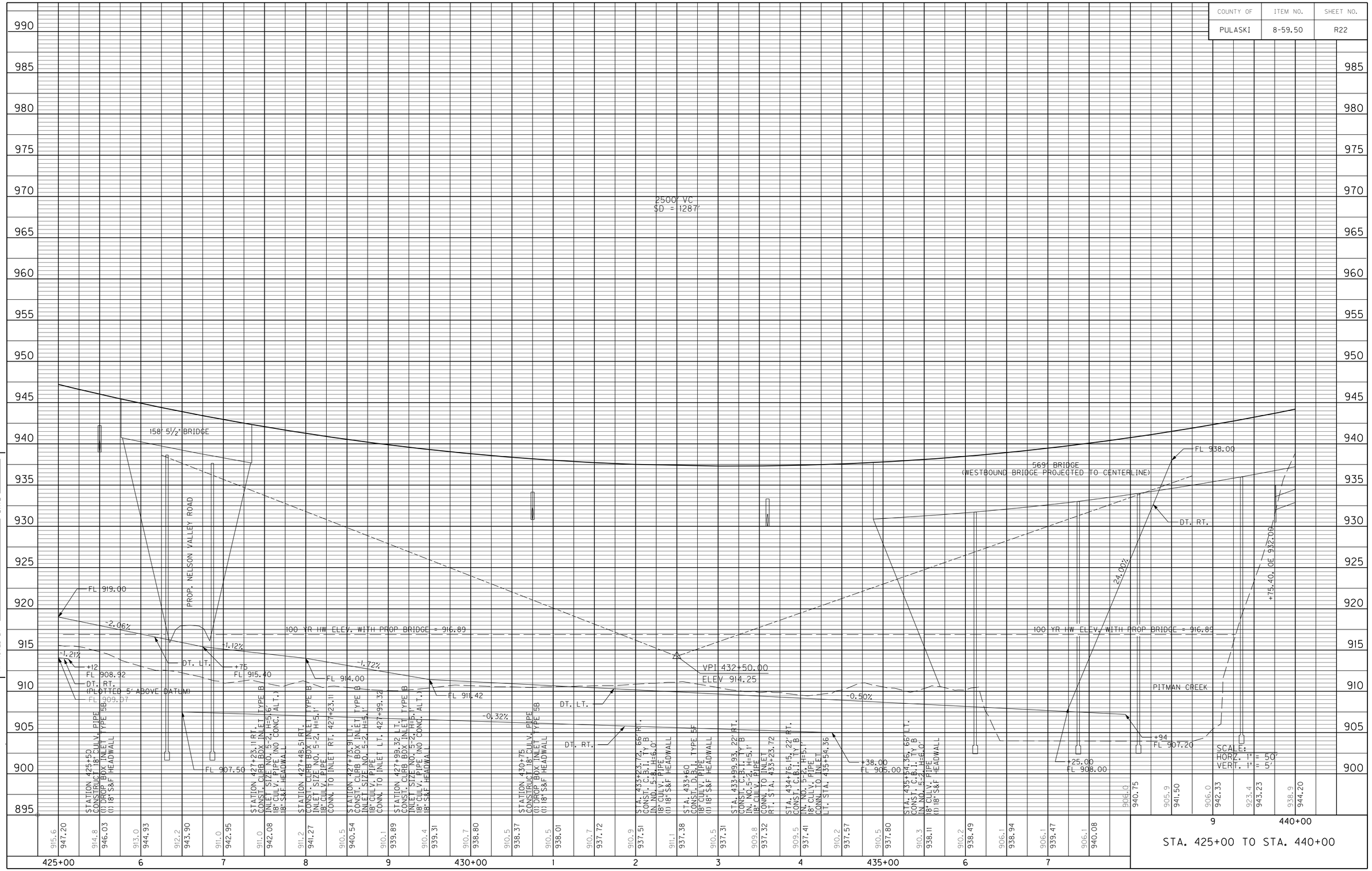
PLAN ~ STA. 425+00 TO STA. 440+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R22



STA. 425+00 TO STA. 440+00

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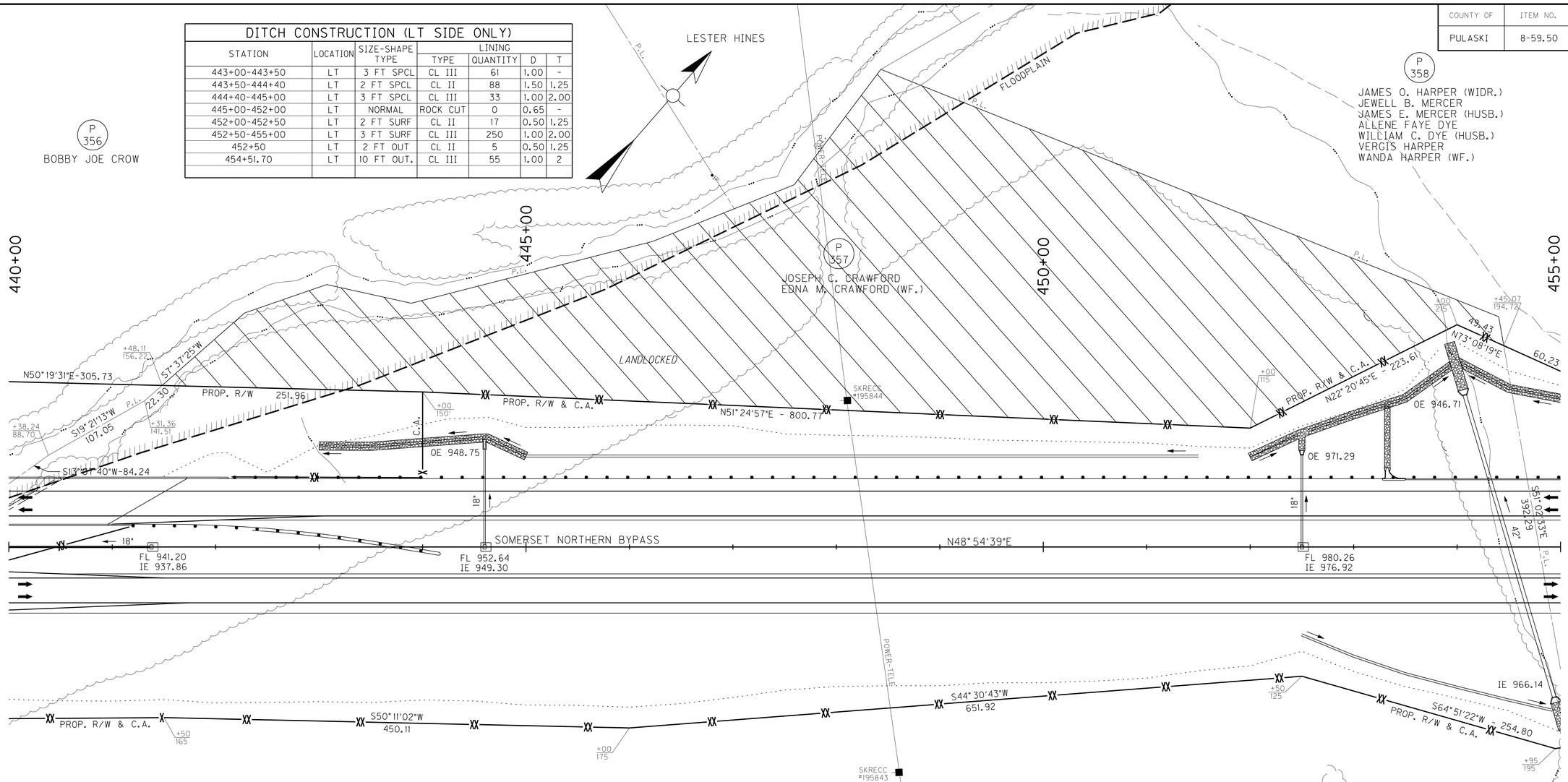
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R23

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
443+00-443+50	LT	3 FT SPCL	CL III	61	1.00	-
443+50-444+40	LT	2 FT SPCL	CL II	88	1.50	1.25
444+40-445+00	LT	3 FT SPCL	CL III	33	1.00	2.00
445+00-452+00	LT	NORMAL	ROCK CUT	0	0.65	-
452+00-452+50	LT	2 FT SURF	CL II	17	0.50	1.25
452+50-455+00	LT	3 FT SURF	CL III	250	1.00	2.00
452+50	LT	2 FT OUT	CL II	5	0.50	1.25
454+51.70	LT	10 FT OUT.	CL III	55	1.00	2



DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
444+60-452+50	MEDIAN	NORMAL	TRM	614	0.57	-
452+50-455+00	MEDIAN	NORMAL	TRM	194	0.50	-

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
440+00-452+50	RT	NORMAL	ROCK			-
452+50-453+50	RT	2 FT SURF	ECB	44	0.24	-
453+50-455+00	RT	2 FT SURF	ECB	133	0.52	-
454+51.70	RT	8 FT INLET	CL III	14	1.00	2.00

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W FENCE - WOVEN WIRE TYPE 1	440+00 - 455+00	LT	LIN FT	1523.0
R/W FENCE - WOVEN WIRE TYPE 1	440+00 - 455+00	RT	LIN FT	1512.5

PREPARED BY JDO DATE 3/17/2014
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APPROVED BY DATE

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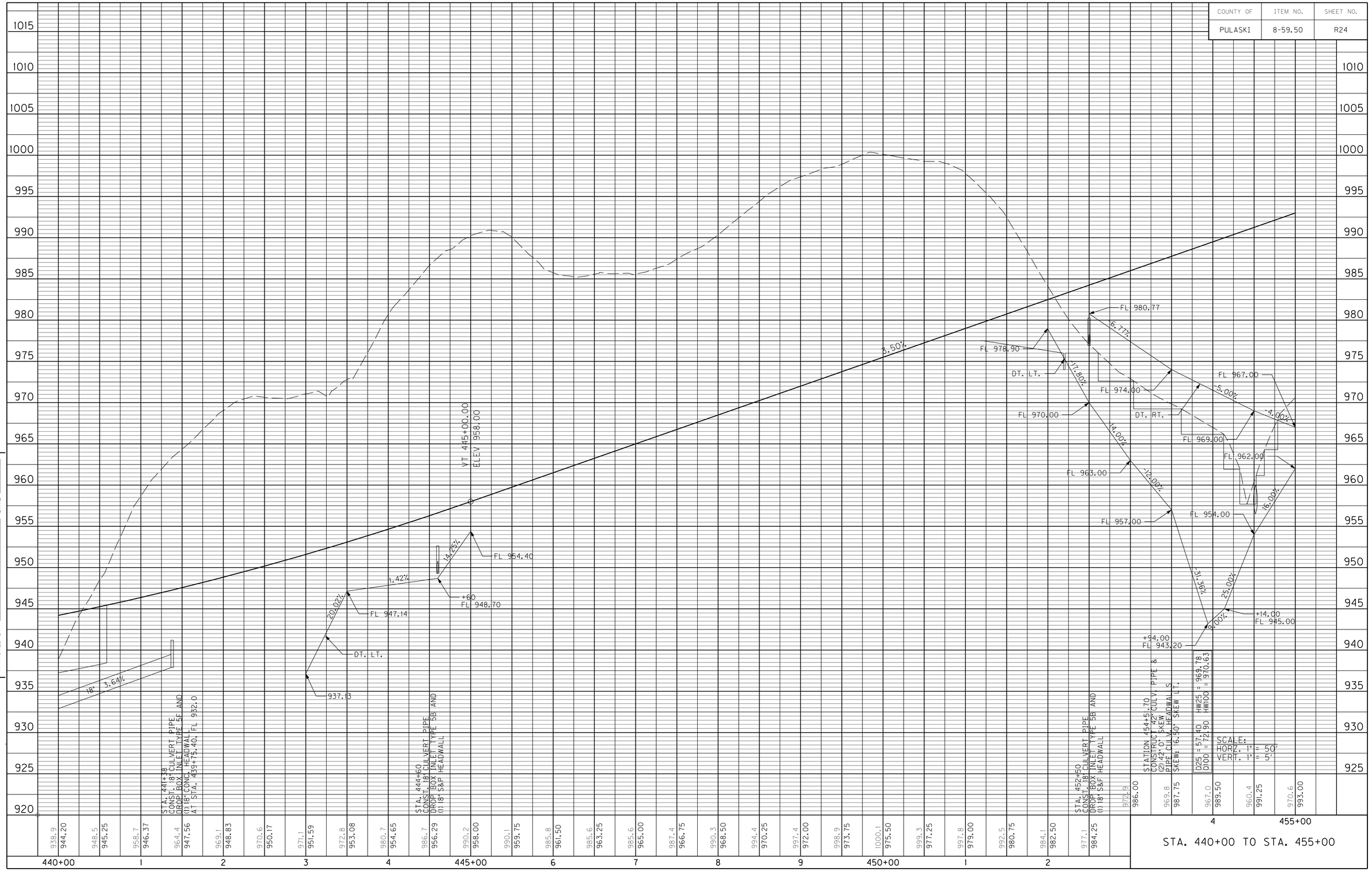
PLAN ~ STA. 440+00 TO STA. 455+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R24



STA. 440+00 TO STA. 455+00

PREPARED BY DATE
CHECKED BY DATE
APPROVED BY DATE

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Cell Name: spf
3/17/2014

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1-92
FORM NO. 4

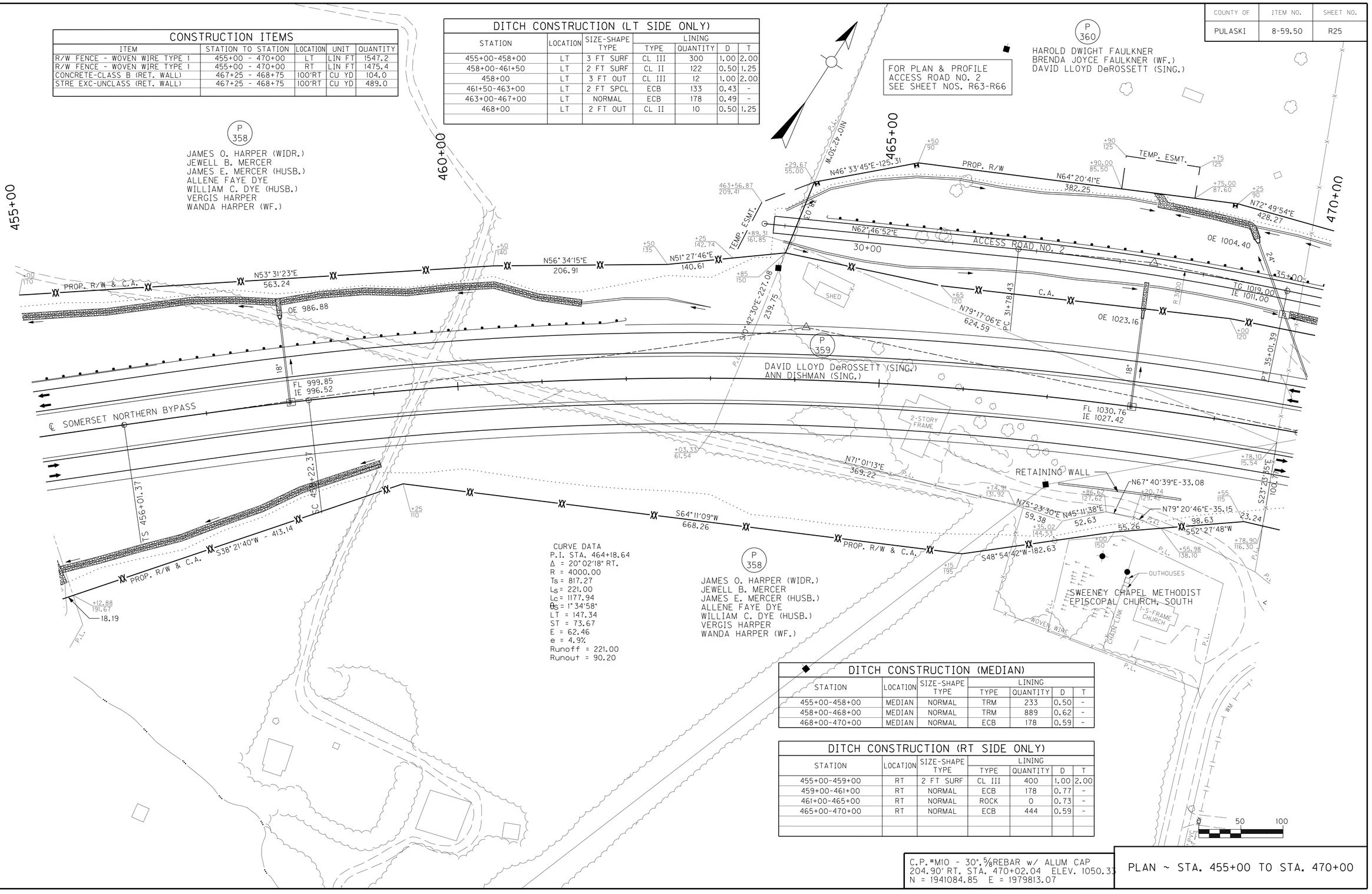
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R25

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W FENCE - WOVEN WIRE TYPE 1	455+00 - 470+00	LT	LIN FT	1547.2
R/W FENCE - WOVEN WIRE TYPE 1	455+00 - 470+00	RT	LIN FT	1475.4
CONCRETE-CLASS B (RET. WALL)	467+25 - 468+75	100'RT	CU YD	104.0
STRE EXC-UNCLASS (RET. WALL)	467+25 - 468+75	100'RT	CU YD	489.0

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
455+00-458+00	LT	3 FT SURF	CL III	300	1.00	2.00
458+00-461+50	LT	2 FT SURF	CL II	122	0.50	1.25
458+00	LT	3 FT OUT	CL III	12	1.00	2.00
461+50-463+00	LT	2 FT SPCL	ECB	133	0.43	-
463+00-467+00	LT	NORMAL	ECB	178	0.49	-
468+00	LT	2 FT OUT	CL II	10	0.50	1.25



CURVE DATA
P.I. STA. 464+18.64
Δ = 20°02'18" RT.
R = 4000.00
Ts = 817.27
Ls = 221.00
Lc = 1177.94
θs = 1°34'58"
LT = 147.34
ST = 73.67
E = 62.46
e = 4.9%
Runoff = 221.00
Runout = 90.20

P 358
JAMES O. HARPER (WIDR.)
JEWELL B. MERCER
JAMES E. MERCER (HUSB.)
ALLENE FAYE DYE
WILLIAM C. DYE (HUSB.)
VERGIS HARPER
WANDA HARPER (WF.)

DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
455+00-458+00	MEDIAN	NORMAL	TRM	233	0.50	-
458+00-468+00	MEDIAN	NORMAL	TRM	889	0.62	-
468+00-470+00	MEDIAN	NORMAL	ECB	178	0.59	-

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
455+00-459+00	RT	2 FT SURF	CL III	400	1.00	2.00
459+00-461+00	RT	NORMAL	ECB	178	0.77	-
461+00-465+00	RT	NORMAL	ROCK	0	0.73	-
465+00-470+00	RT	NORMAL	ECB	444	0.59	-

C.P. #M10 - 30", 5/8 REBAR w/ ALUM CAP
204.90' RT. STA. 470+02.04 ELEV. 1050.33
N = 1941084.85 E = 1979813.07

PLAN ~ STA. 455+00 TO STA. 470+00

		DATE
PREPARED BY	JDD	3/17/2014
CHECKED BY	JDD	3/17/2014
APPROVED BY		

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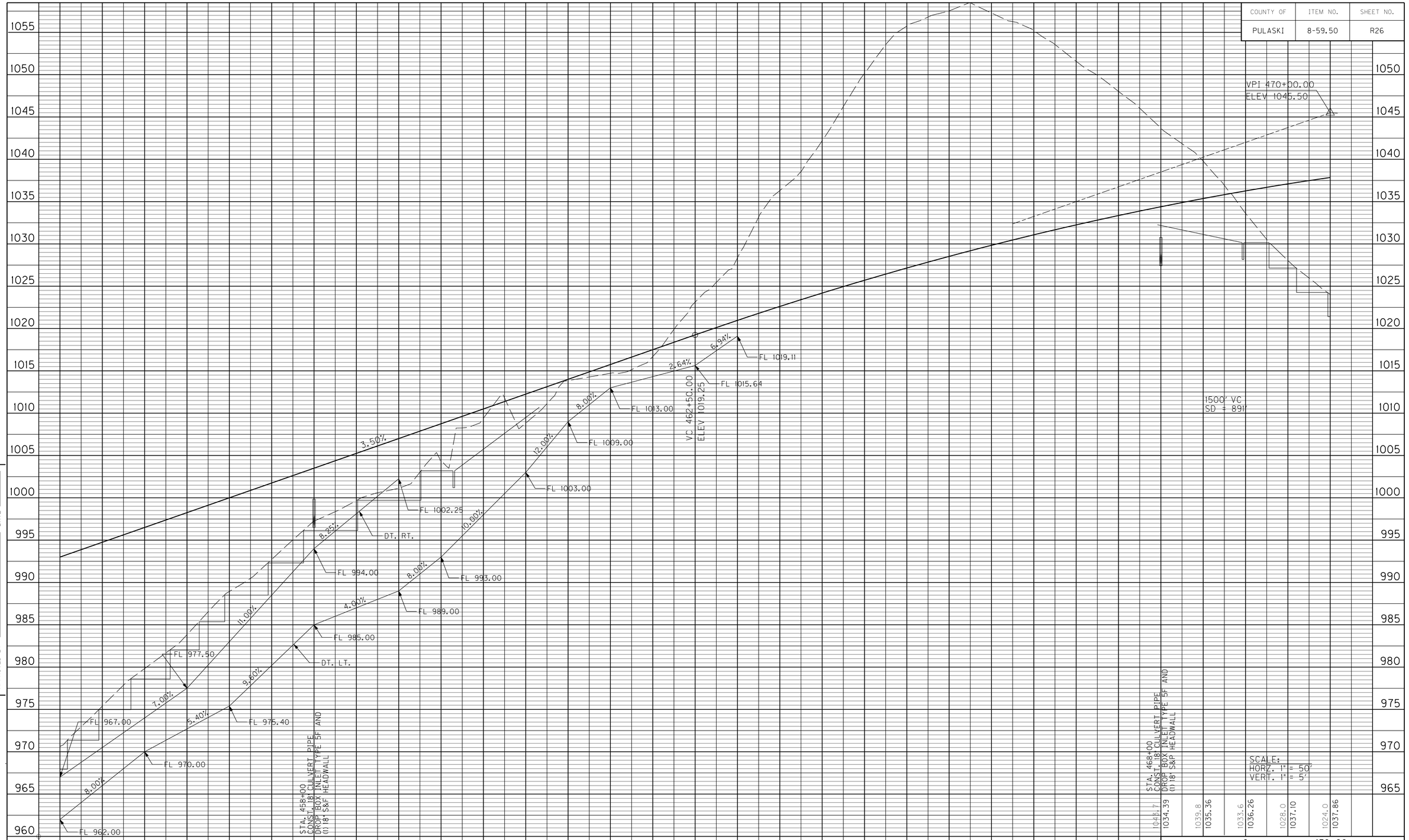
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R26



STA. 455+00 TO STA. 470+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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3/17/2014

JDQ
L-52
FORM NO. 4

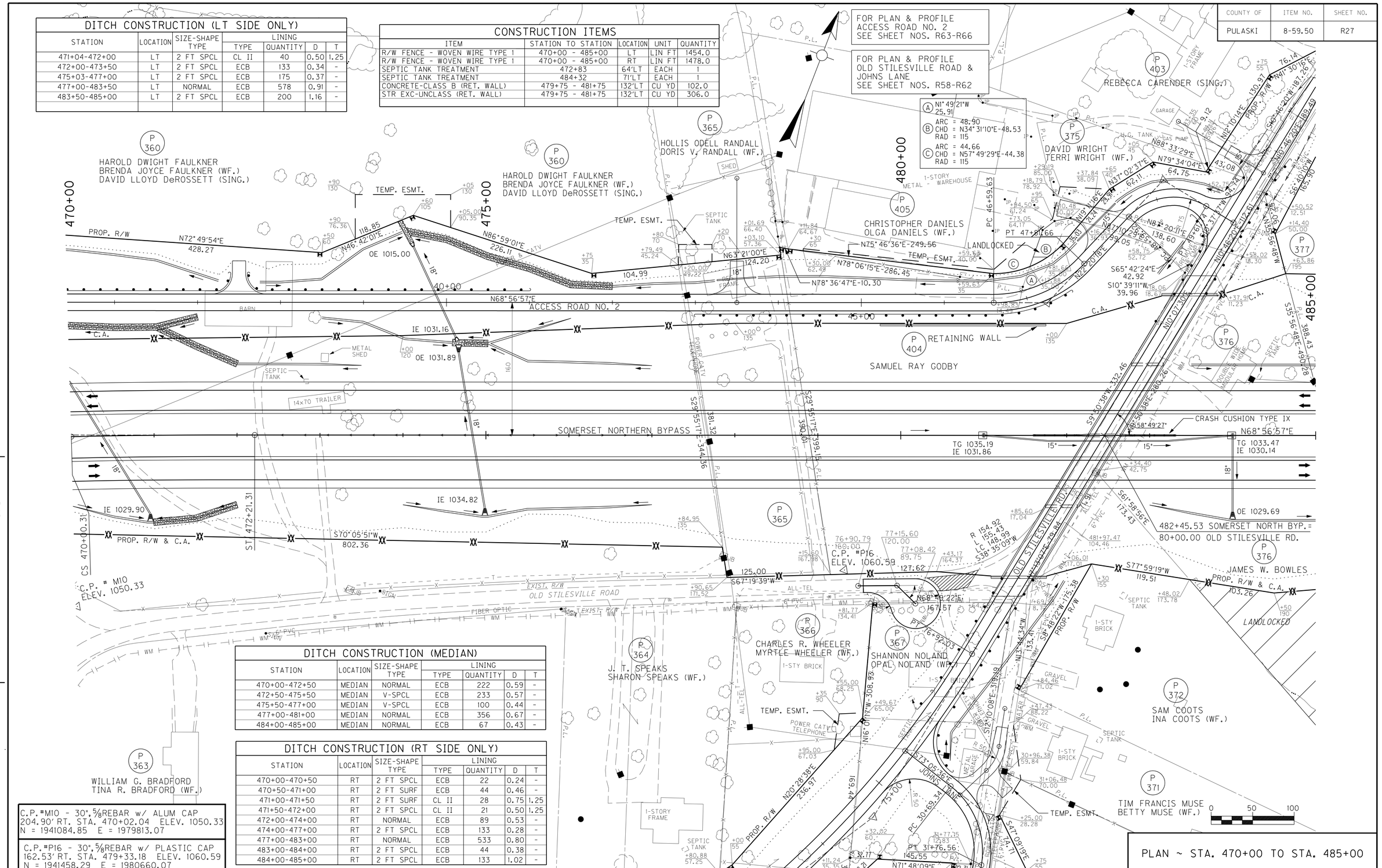
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R27

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	D	T
471+04-472+00	LT	2 FT SPCL	CL II	40	0.50	1.25
472+00-473+50	LT	2 FT SPCL	ECB	133	0.34	-
475+03-477+00	LT	2 FT SPCL	ECB	175	0.37	-
477+00-483+50	LT	NORMAL	ECB	578	0.91	-
483+50-485+00	LT	2 FT SPCL	ECB	200	1.16	-

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W FENCE - WOVEN WIRE TYPE 1	470+00 - 485+00	LT	LIN FT	1454.0
R/W FENCE - WOVEN WIRE TYPE 1	470+00 - 485+00	RT	LIN FT	1478.0
SEPTIC TANK TREATMENT	472+83	64'LT	EACH	1
SEPTIC TANK TREATMENT	484+32	71'LT	EACH	1
CONCRETE-CLASS B (RET. WALL)	479+75 - 481+75	132'LT	CU YD	102.0
STR EXC-UNCLASS (RET. WALL)	479+75 - 481+75	132'LT	CU YD	306.0



DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	D	T
470+00-472+50	MEDIAN	NORMAL	ECB	222	0.59	-
472+50-475+50	MEDIAN	V-SPCL	ECB	233	0.57	-
475+50-477+00	MEDIAN	V-SPCL	ECB	100	0.44	-
477+00-481+00	MEDIAN	NORMAL	ECB	356	0.67	-
484+00-485+00	MEDIAN	NORMAL	ECB	67	0.43	-

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	D	T
470+00-470+50	RT	2 FT SPCL	ECB	22	0.24	-
470+50-471+00	RT	2 FT SURF	ECB	44	0.46	-
471+00-471+50	RT	2 FT SURF	CL II	28	0.75	1.25
471+50-472+00	RT	2 FT SPCL	CL II	21	0.50	1.25
472+00-474+00	RT	NORMAL	ECB	89	0.53	-
474+00-477+00	RT	2 FT SPCL	ECB	133	0.28	-
477+00-483+00	RT	NORMAL	ECB	533	0.80	-
483+00-484+00	RT	2 FT SPCL	ECB	44	0.38	-
484+00-485+00	RT	2 FT SPCL	ECB	133	1.02	-

C.P. #M10 - 30", 5/8 REBAR w/ ALUM CAP
204.90' RT. STA. 470+02.04 ELEV. 1050.33
N = 1941084.85 E = 1979813.07

C.P. #P16 - 30", 5/8 REBAR w/ PLASTIC CAP
162.53' RT. STA. 479+33.18 ELEV. 1060.59
N = 1941458.29 E = 1980660.07

PLAN ~ STA. 470+00 TO STA. 485+00

PREPARED BY	JDO	DATE	3/17/2014
CHECKED BY	JDO	DATE	3/17/2014
APPROVED BY		DATE	

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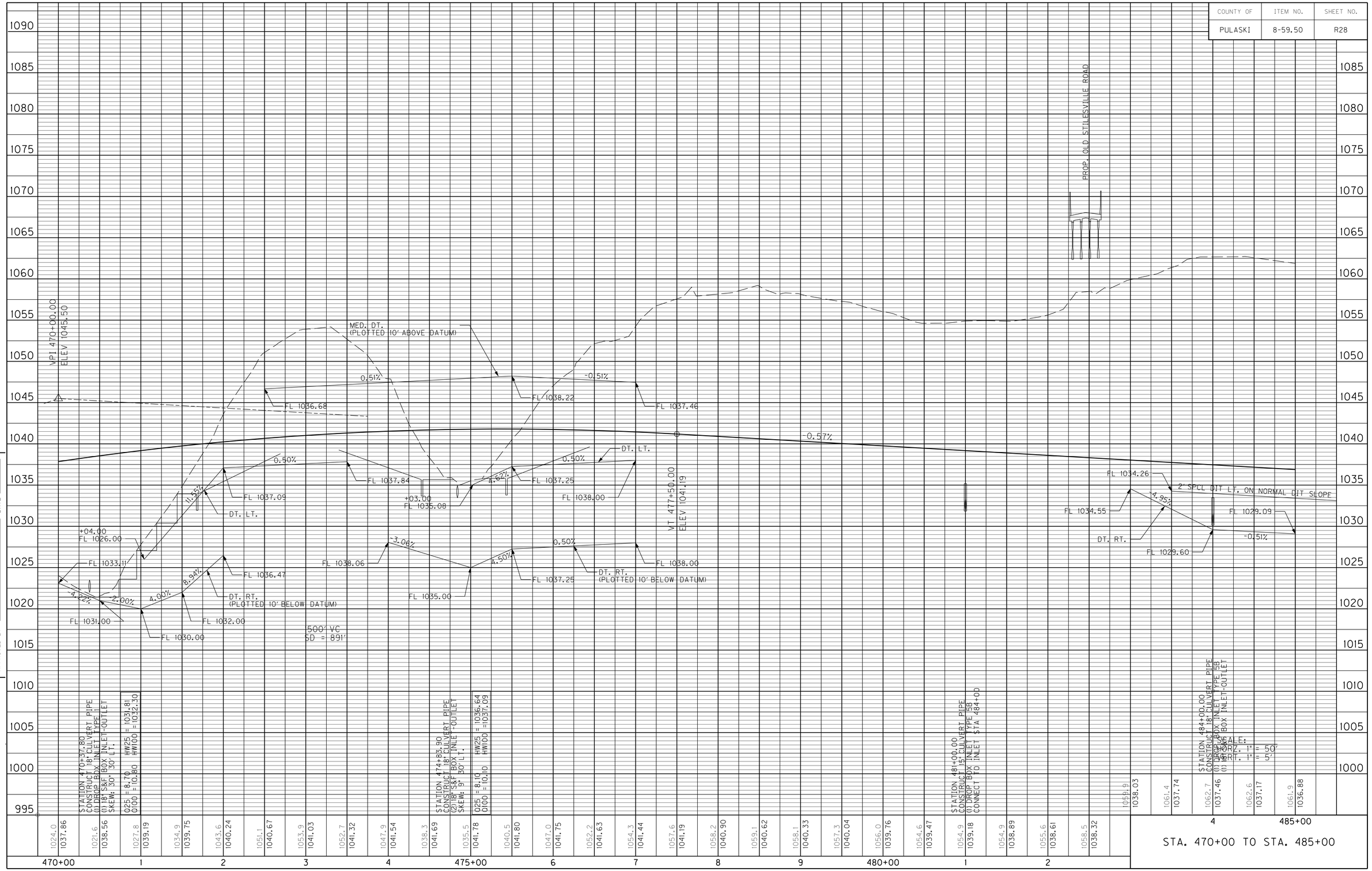
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R28



STA. 470+00 TO STA. 485+00

DATE
DATE
DATE

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Cell Name: spf
3/17/2014

JDQ
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R29

DITCH CONSTRUCTION (LT SIDE ONLY)

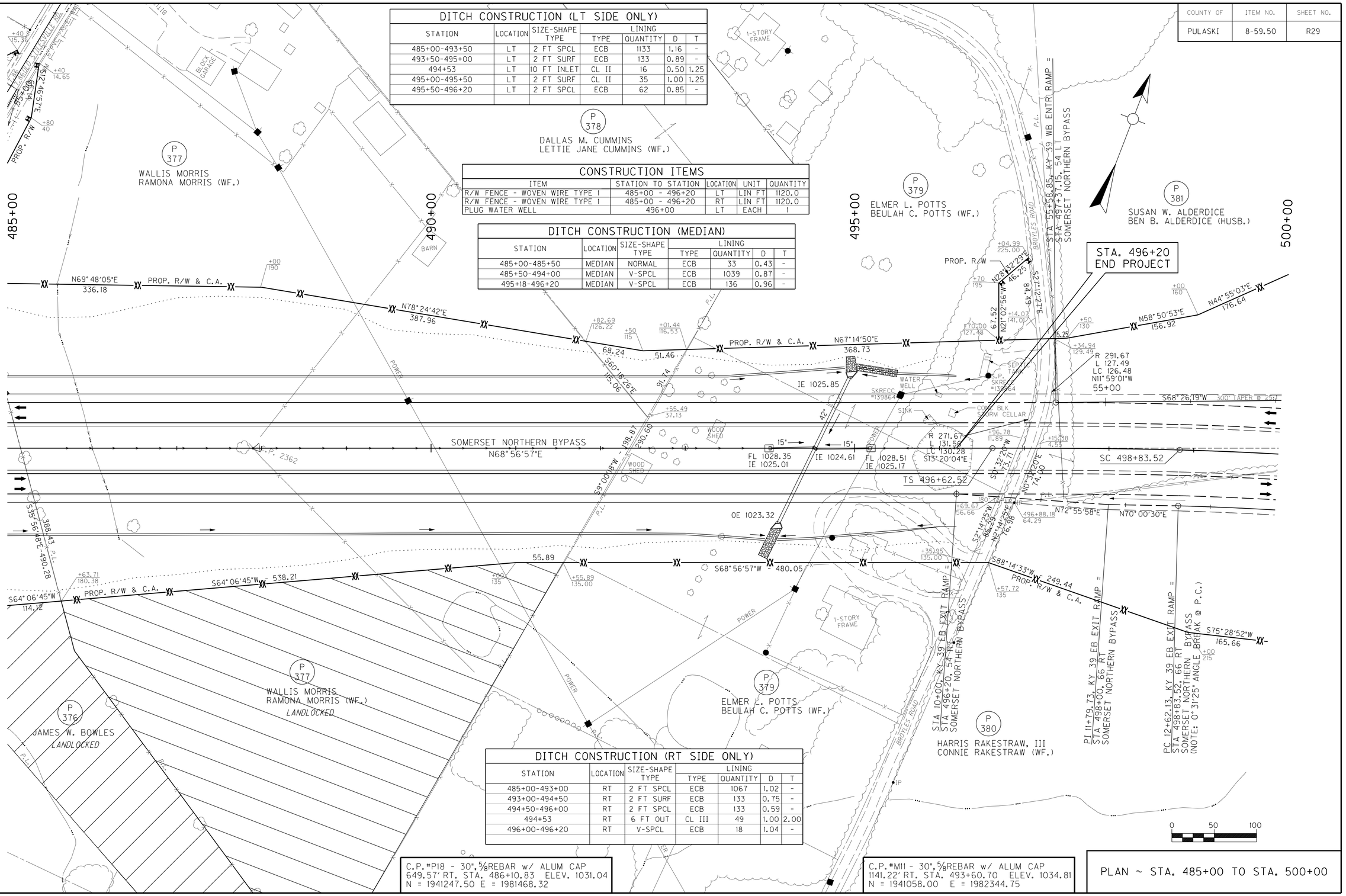
STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
485+00-493+50	LT	2 FT SPCL	ECB	1133	1.16	-
493+50-495+00	LT	2 FT SURF	ECB	133	0.89	-
494+53	LT	10 FT INLET	CL II	16	0.50	1.25
495+00-495+50	LT	2 FT SURF	CL II	35	1.00	1.25
495+50-496+20	LT	2 FT SPCL	ECB	62	0.85	-

CONSTRUCTION ITEMS

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W FENCE - WOVEN WIRE TYPE 1	485+00 - 496+20	LT	LIN FT	1120.0
R/W FENCE - WOVEN WIRE TYPE 1	485+00 - 496+20	RT	LIN FT	1120.0
PLUG WATER WELL	496+00	LT	EACH	1

DITCH CONSTRUCTION (MEDIAN)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
485+00-485+50	MEDIAN	NORMAL	ECB	33	0.43	-
485+50-494+00	MEDIAN	V-SPCL	ECB	1039	0.87	-
495+18-496+20	MEDIAN	V-SPCL	ECB	136	0.96	-



DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
485+00-493+00	RT	2 FT SPCL	ECB	1067	1.02	-
493+00-494+50	RT	2 FT SURF	ECB	133	0.75	-
494+50-496+00	RT	2 FT SPCL	ECB	133	0.59	-
494+53	RT	6 FT OUT	CL III	49	1.00	2.00
496+00-496+20	RT	V-SPCL	ECB	18	1.04	-

C.P. #P18 - 30", 5/8 REBAR w/ ALUM CAP
649.57' RT. STA. 486+10.83 ELEV. 1031.04
N = 1941247.50 E = 1981468.32

C.P. #M11 - 30", 5/8 REBAR w/ ALUM CAP
1141.22' RT. STA. 493+60.70 ELEV. 1034.81
N = 1941058.00 E = 1982344.75

PLAN ~ STA. 485+00 TO STA. 500+00

		DATE
PREPARED BY	JDO	3/17/2014
CHECKED BY	JDO	3/17/2014
APPROVED BY		

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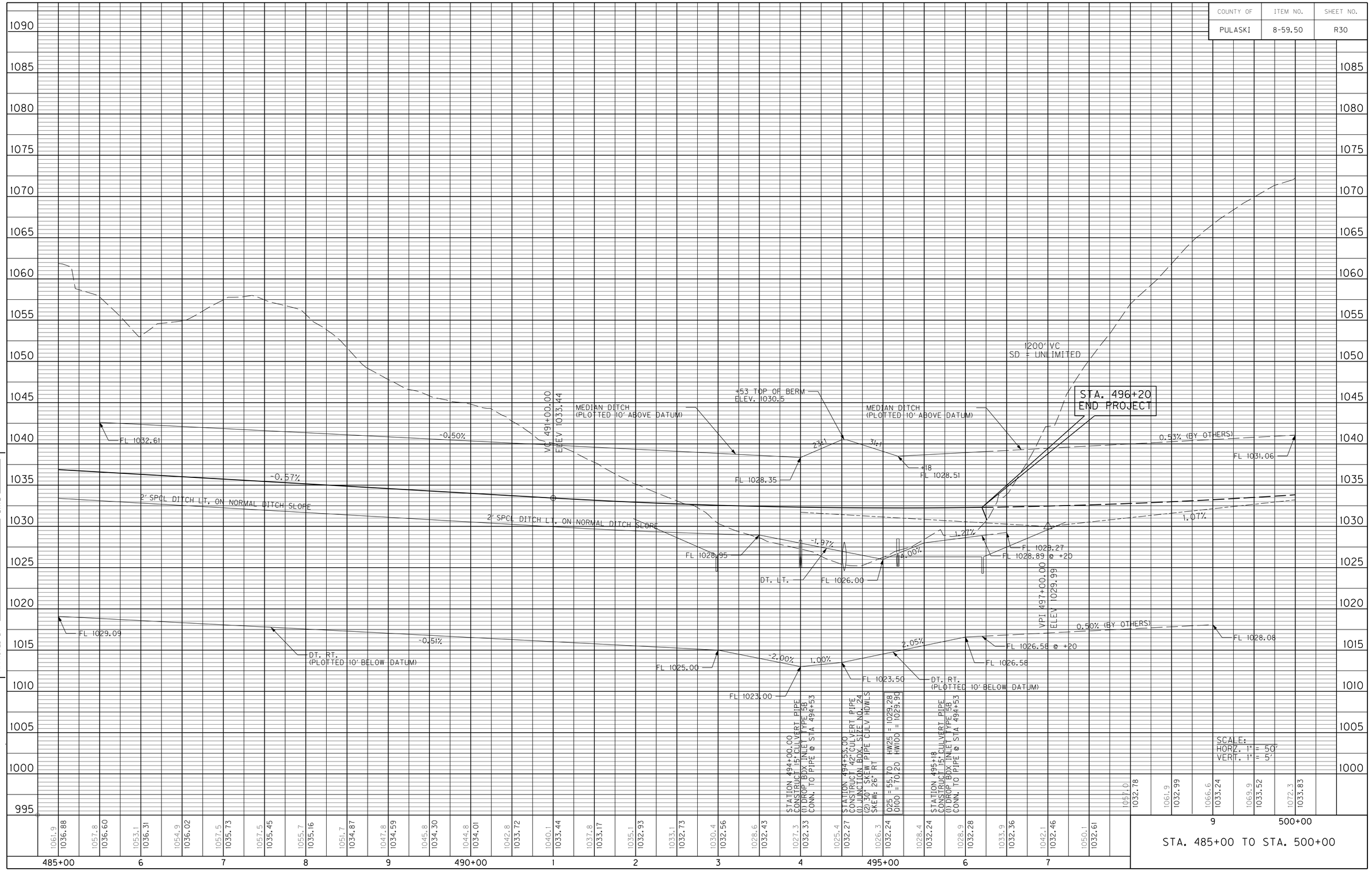
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R30



STA. 485+00 TO STA. 500+00

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Cell Names: sp1
3/17/2014

JDQ
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R31

CONSTRUCTION ITEMS - RACETRACK ROAD

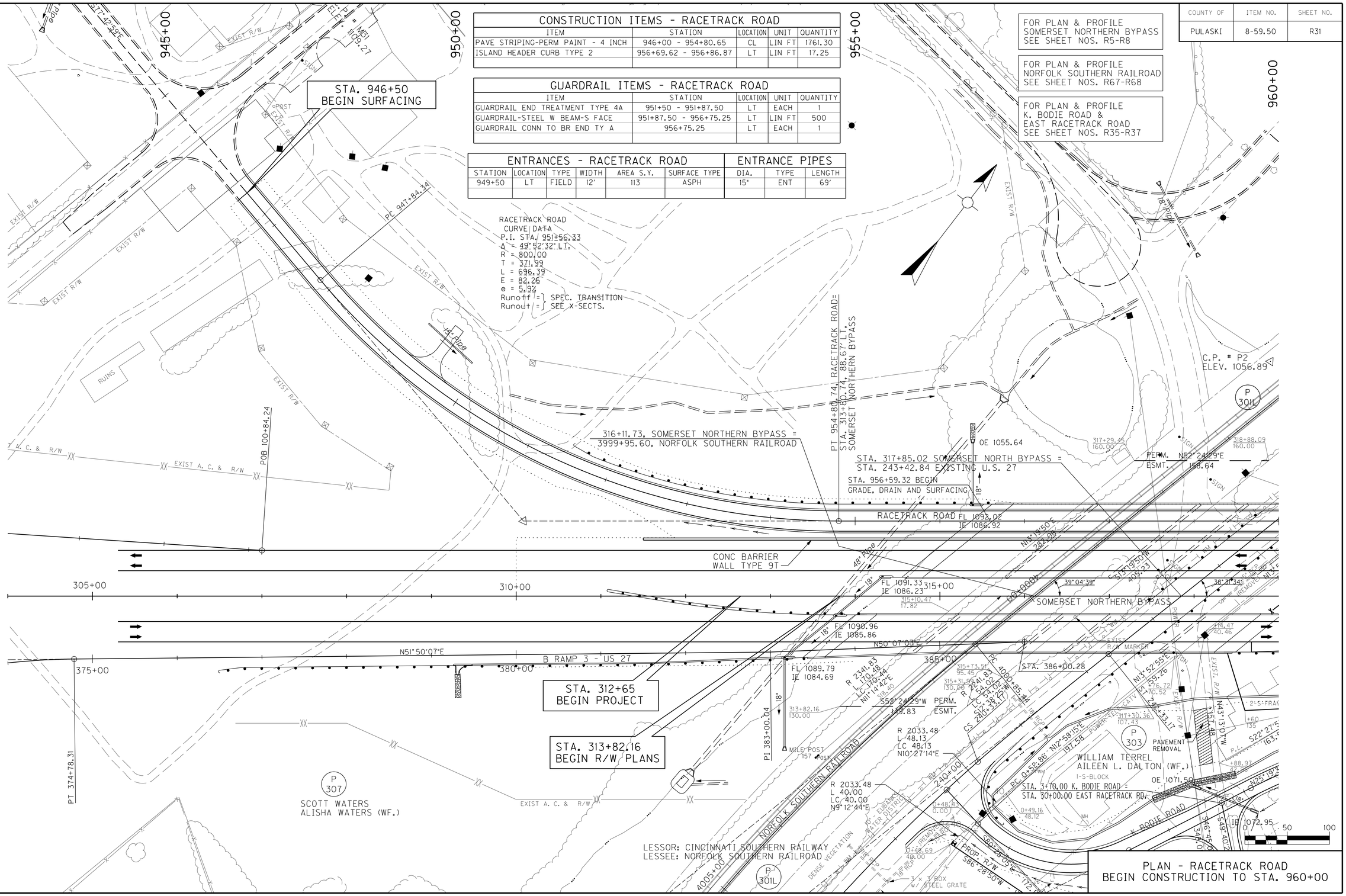
ITEM	STATION	LOCATION	UNIT	QUANTITY
PAVE STRIPING-PERM PAINT - 4 INCH	946+00 - 954+80.65	CL	LIN FT	1761.30
ISLAND HEADER CURB TYPE 2	956+69.62 - 956+86.87	LT	LIN FT	17.25

GUARDRAIL ITEMS - RACETRACK ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL END TREATMENT TYPE 4A	951+50 - 951+87.50	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	951+87.50 - 956+75.25	LT	LIN FT	500
GUARDRAIL CONN TO BR END TY A	956+75.25	LT	EACH	1

ENTRANCES - RACETRACK ROAD / ENTRANCE PIPES

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	DIA.	TYPE	LENGTH
949+50	LT	FIELD	12'	113	ASPH	15"	ENT	69'



PLAN - RACETRACK ROAD
BEGIN CONSTRUCTION TO STA. 960+00

PREPARED BY DATE
CHECKED BY DATE
APPROVED BY DATE

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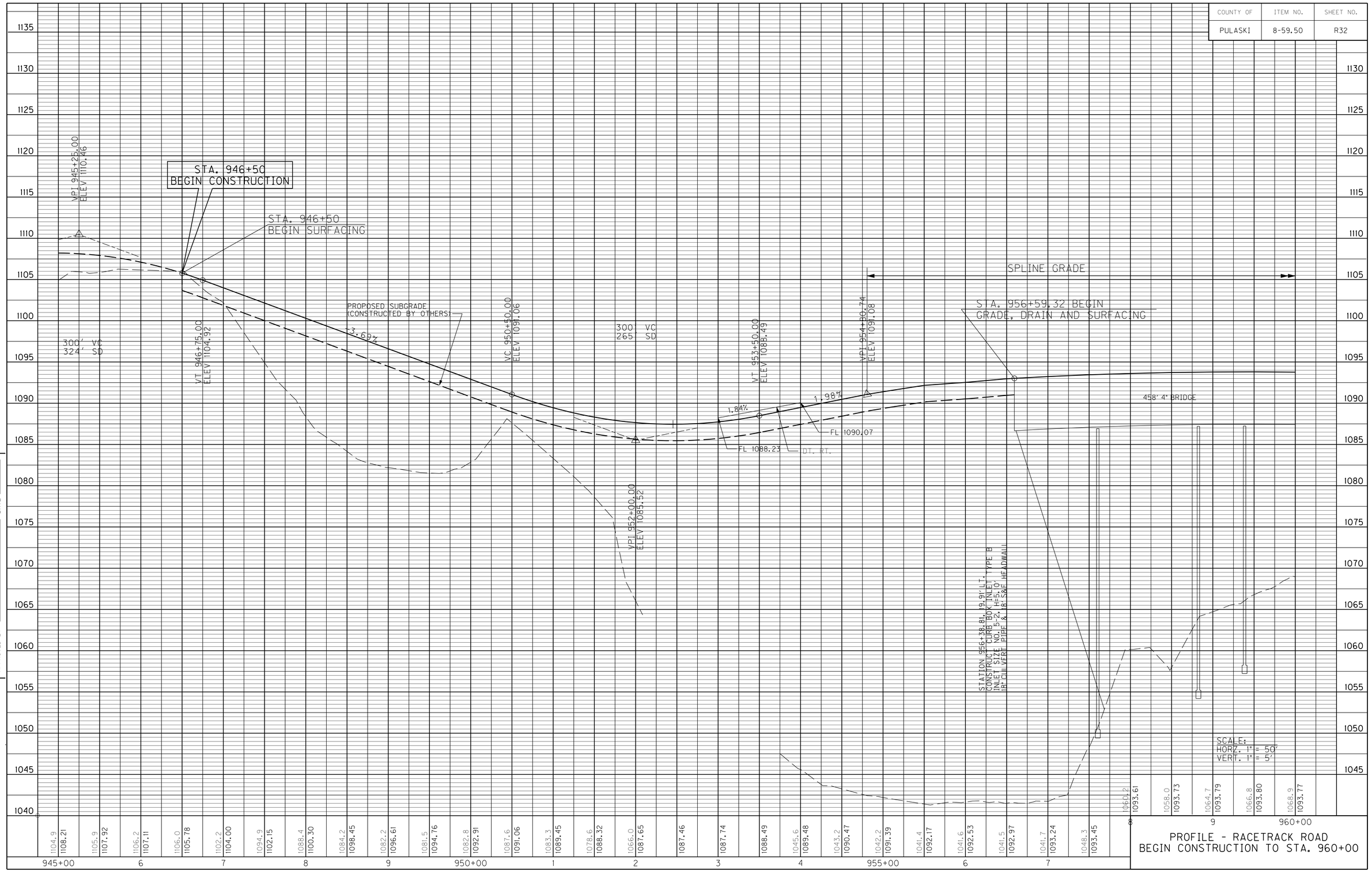
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R32



PROFILE - RACETRACK ROAD
BEGIN CONSTRUCTION TO STA. 960+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: sp-f
3/17/2014

JDQ
1-92
FORM NO. 4

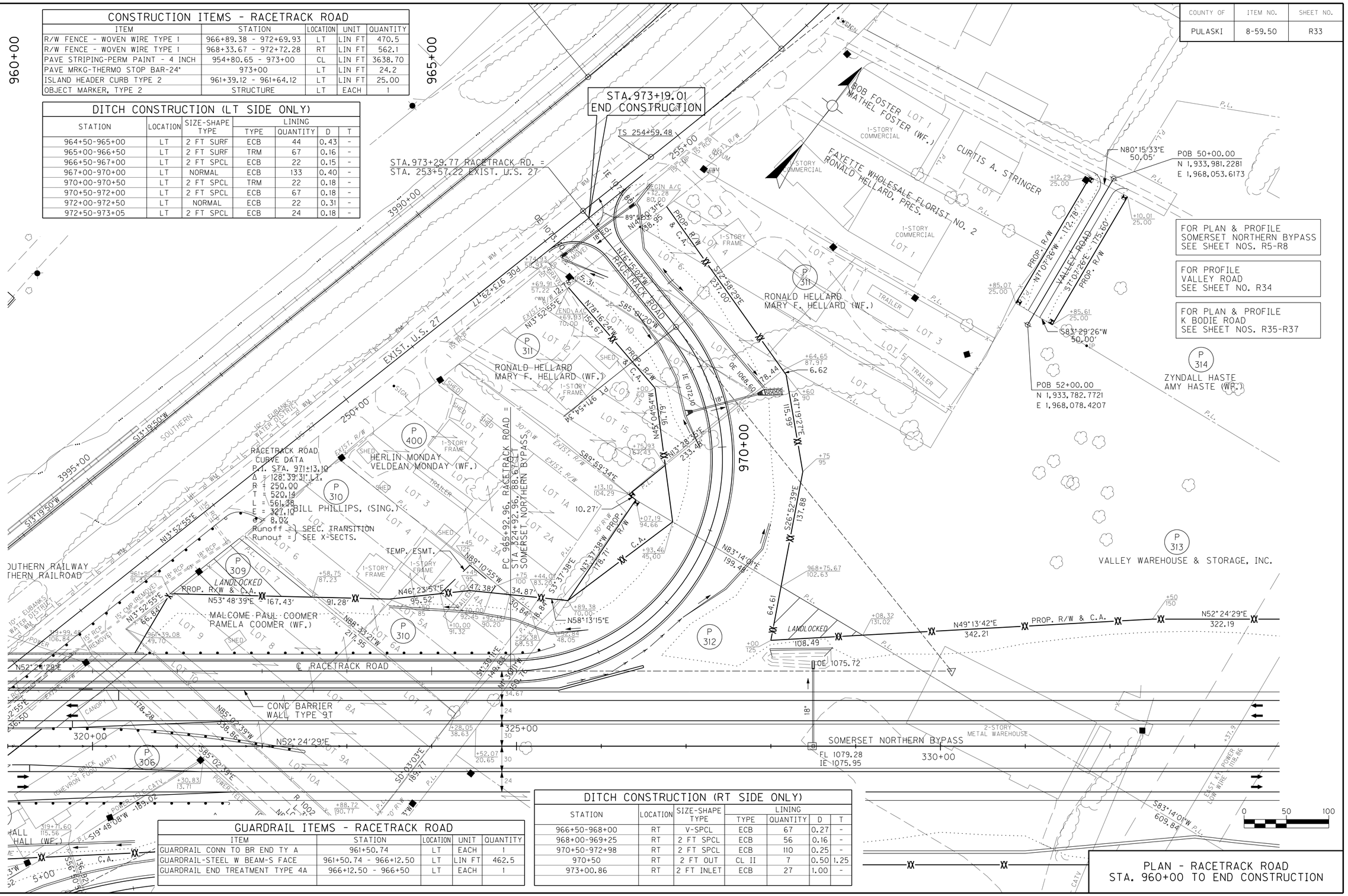
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R33

CONSTRUCTION ITEMS - RACETRACK ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
R/W FENCE - WOVEN WIRE TYPE 1	966+89.38 - 972+69.93	LT	LIN FT	470.5
R/W FENCE - WOVEN WIRE TYPE 1	968+33.67 - 972+72.28	RT	LIN FT	562.1
PAVE STRIPING-PERM PAINT - 4 INCH	954+80.65 - 973+00	CL	LIN FT	3638.70
PAVE MRKG-THERMO STOP BAR-24"	973+00	LT	LIN FT	24.2
ISLAND HEADER CURB TYPE 2	961+39.12 - 961+64.12	LT	LIN FT	25.00
OBJECT MARKER, TYPE 2	STRUCTURE	LT	EACH	1

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
964+50-965+00	LT	2 FT SURF	ECB	44	0.43	-
965+00-966+50	LT	2 FT SURF	TRM	67	0.16	-
966+50-967+00	LT	2 FT SPCL	ECB	22	0.15	-
967+00-970+00	LT	NORMAL	ECB	133	0.40	-
970+00-970+50	LT	2 FT SPCL	TRM	22	0.18	-
970+50-972+00	LT	2 FT SPCL	ECB	67	0.18	-
972+00-972+50	LT	NORMAL	ECB	22	0.31	-
972+50-973+05	LT	2 FT SPCL	ECB	24	0.18	-



GUARDRAIL ITEMS - RACETRACK ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL CONN TO BR END TY A	961+50.74	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	961+50.74 - 966+12.50	LT	LIN FT	462.5
GUARDRAIL END TREATMENT TYPE 4A	966+12.50 - 966+50	LT	EACH	1

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
966+50-968+00	RT	V-SPCL	ECB	67	0.27	-
968+00-969+25	RT	2 FT SPCL	ECB	56	0.16	-
970+50-972+98	RT	2 FT SPCL	ECB	110	0.25	-
970+50	RT	2 FT OUT	CL II	7	0.50	1.25
973+00.86	RT	2 FT INLET	ECB	27	1.00	-

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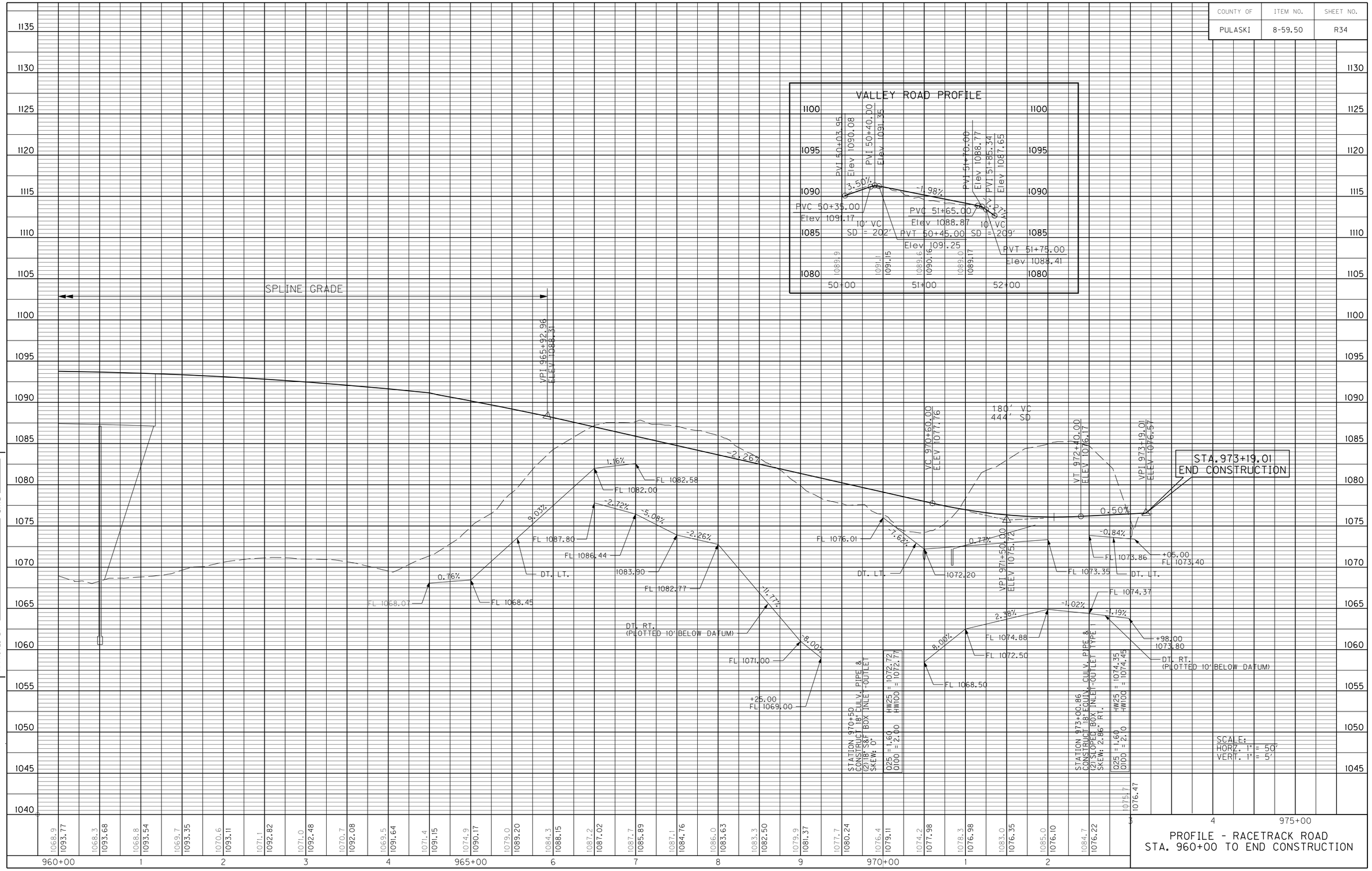
Cell Name: sp
3/17/2014

PLAN - RACETRACK ROAD
STA. 960+00 TO END CONSTRUCTION

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R34



PROFILE - RACETRACK ROAD
STA. 960+00 TO END CONSTRUCTION

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: sbf
3/17/2014

JDQ
L-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R35

ENTRANCES - K BODIE ROAD / ENTRANCE PIPES

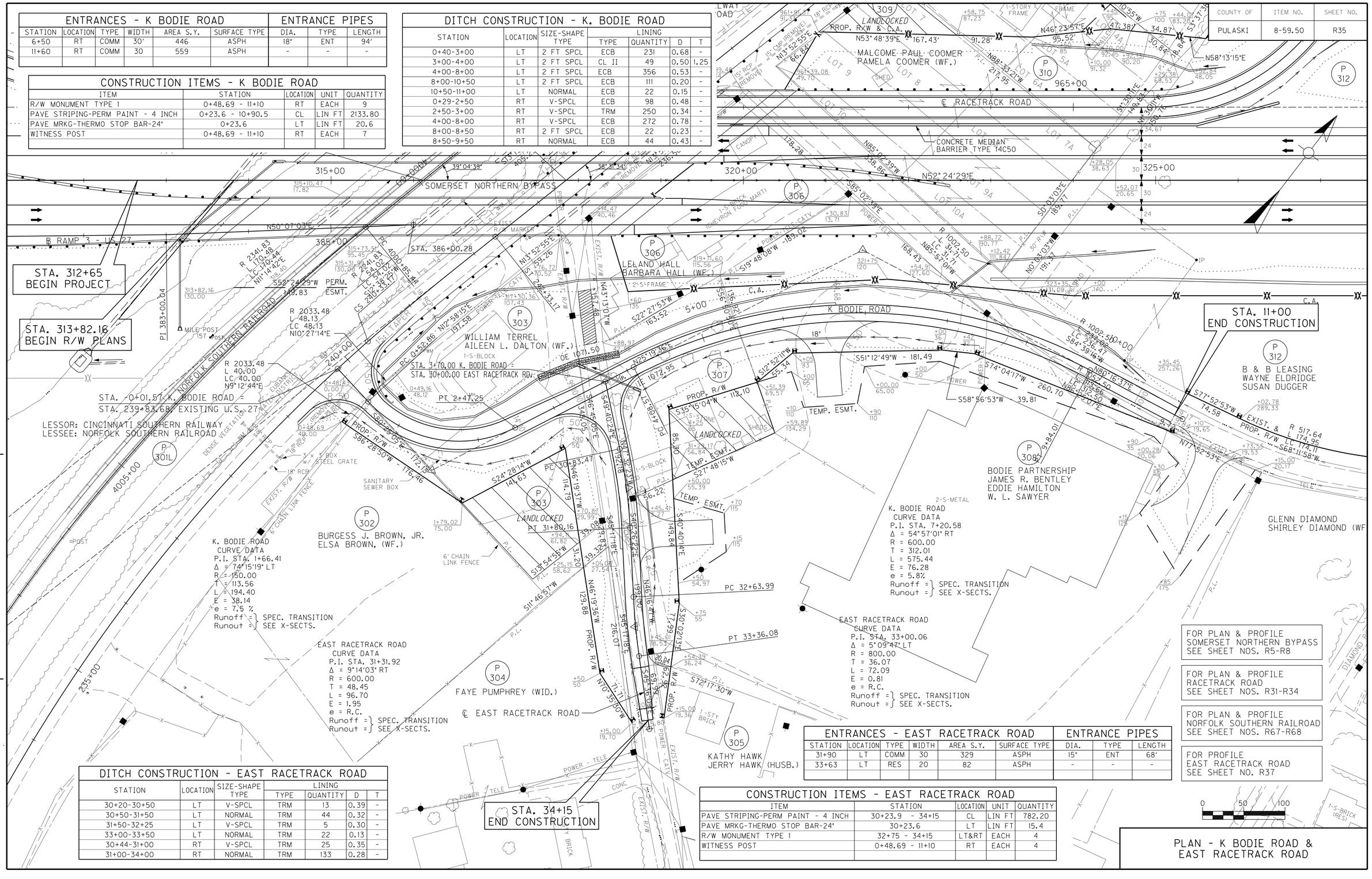
STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	DIA.	TYPE	LENGTH
6+50	RT	COMM	30'	446	ASPH	18"	ENT	94'
11+60	RT	COMM	30	559	ASPH	-	-	-

CONSTRUCTION ITEMS - K BODIE ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
R/W MONUMENT TYPE 1	0+48.69 - 11+10	RT	EACH	9
PAVE STRIPING-PERM PAINT - 4 INCH	0+23.6 - 10+90.5	CL	LIN FT	2133.80
PAVE MRKG-THERMO STOP BAR-24"	0+23.6	LT	LIN FT	20.6
WITNESS POST	0+48.69 - 11+10	RT	EACH	7

DITCH CONSTRUCTION - K. BODIE ROAD

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	D	T
0+40-3+00	LT	2 FT SPCL	ECB	231	0.68	-
3+00-4+00	LT	2 FT SPCL	CL II	49	0.50	1.25
4+00-8+00	LT	2 FT SPCL	ECB	356	0.53	-
8+00-10+50	LT	2 FT SPCL	ECB	111	0.20	-
10+50-11+00	LT	NORMAL	ECB	22	0.15	-
0+29-2+50	RT	V-SPCL	ECB	98	0.48	-
2+50-3+00	RT	V-SPCL	TRM	250	0.34	-
4+00-8+00	RT	V-SPCL	ECB	272	0.78	-
8+00-8+50	RT	2 FT SPCL	ECB	22	0.23	-
8+50-9+50	RT	NORMAL	ECB	44	0.43	-



ENTRANCES - EAST RACETRACK ROAD / ENTRANCE PIPES

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	DIA.	TYPE	LENGTH
31+90	LT	COMM	30	329	ASPH	15"	ENT	68'
33+63	LT	RES	20	82	ASPH	-	-	-

CONSTRUCTION ITEMS - EAST RACETRACK ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
PAVE STRIPING-PERM PAINT - 4 INCH	30+23.9 - 34+15	CL	LIN FT	782.20
PAVE MRKG-THERMO STOP BAR-24"	30+23.6	LT	LIN FT	15.4
R/W MONUMENT TYPE 1	32+75 - 34+15	LT&RT	EACH	4
WITNESS POST	0+48.69 - 11+10	RT	EACH	4

DITCH CONSTRUCTION - EAST RACETRACK ROAD

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	D	T
30+20-30+50	LT	V-SPCL	TRM	13	0.39	-
30+50-31+50	LT	NORMAL	TRM	44	0.32	-
31+50-32+25	LT	V-SPCL	TRM	5	0.30	-
33+00-33+50	LT	NORMAL	TRM	22	0.13	-
30+44-31+00	RT	V-SPCL	TRM	25	0.35	-
31+00-34+00	RT	NORMAL	TRM	133	0.28	-

PREPARED BY JDQ DATE 3/17/2014
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APPROVED BY DATE

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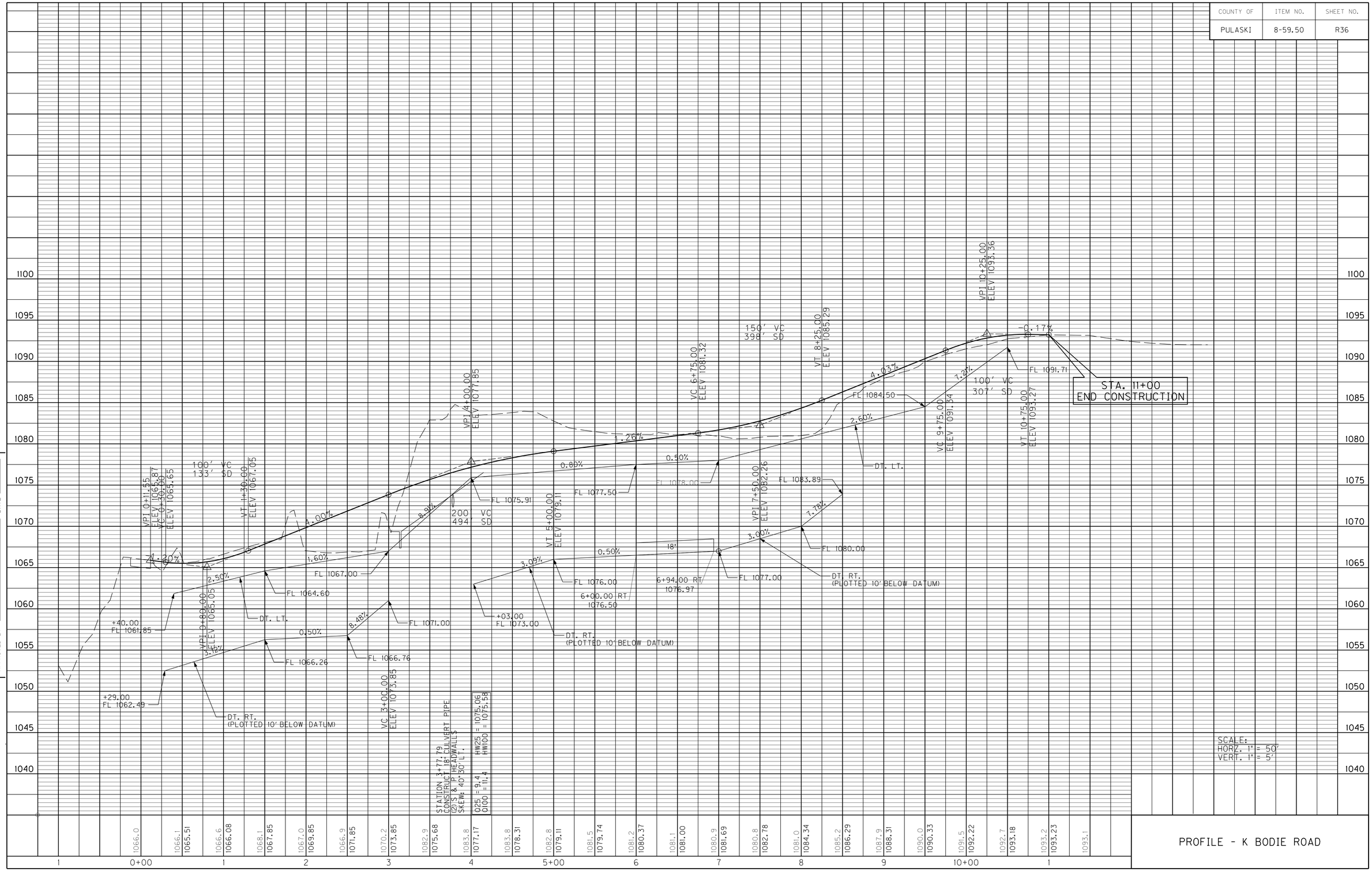
PLAN - K BODIE ROAD & EAST RACETRACK ROAD

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R36



PROFILE - K BODIE ROAD

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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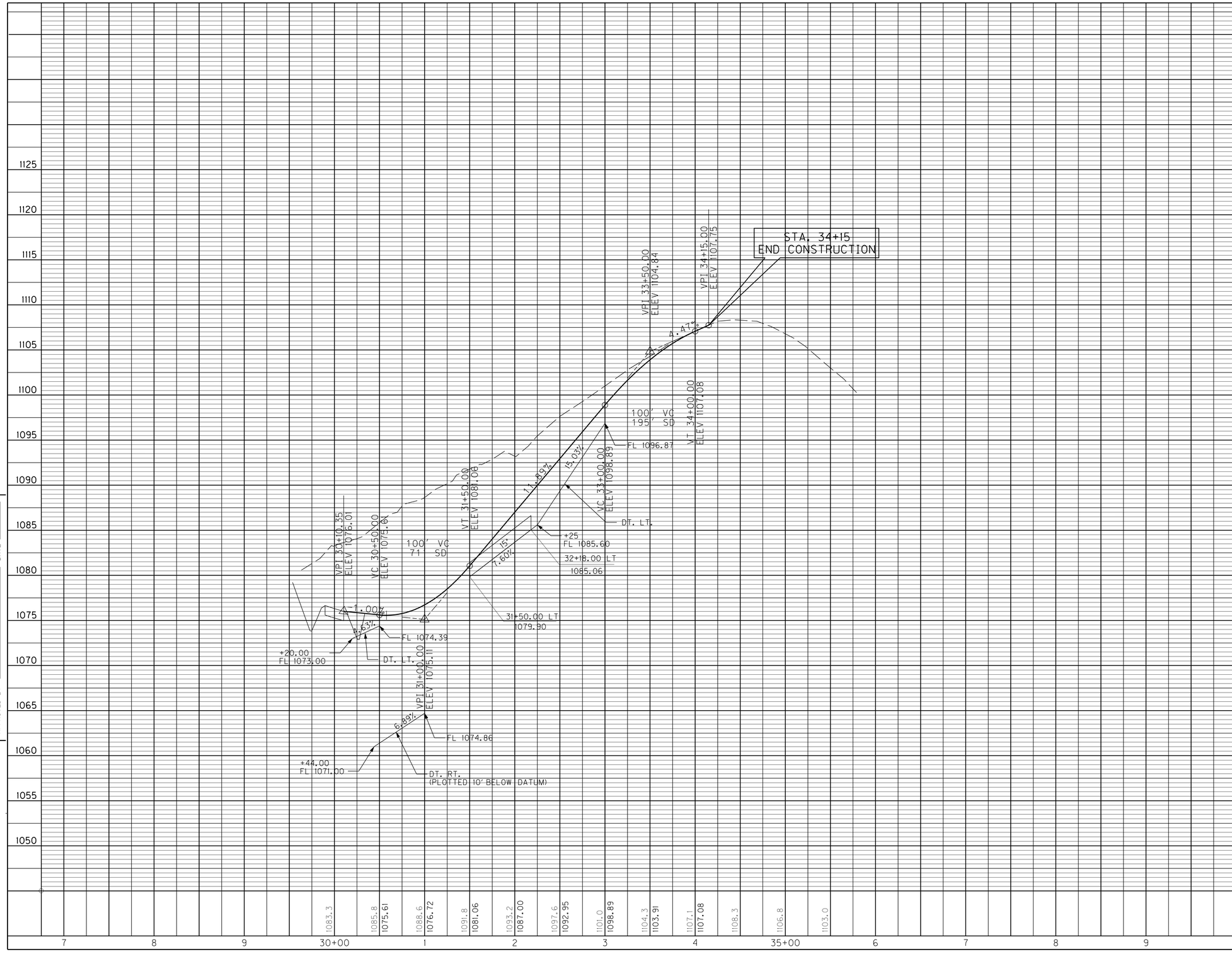
Cell Names: sp1
3/17/2014

JDQ
L-52
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R37



SCALE:
HORZ. 1" = 50'
VERT. 1" = 5'

PROFILE - EAST RACETRACK ROAD

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: sbf
3/17/2014

JDQ
L-92
FORM NO. 4

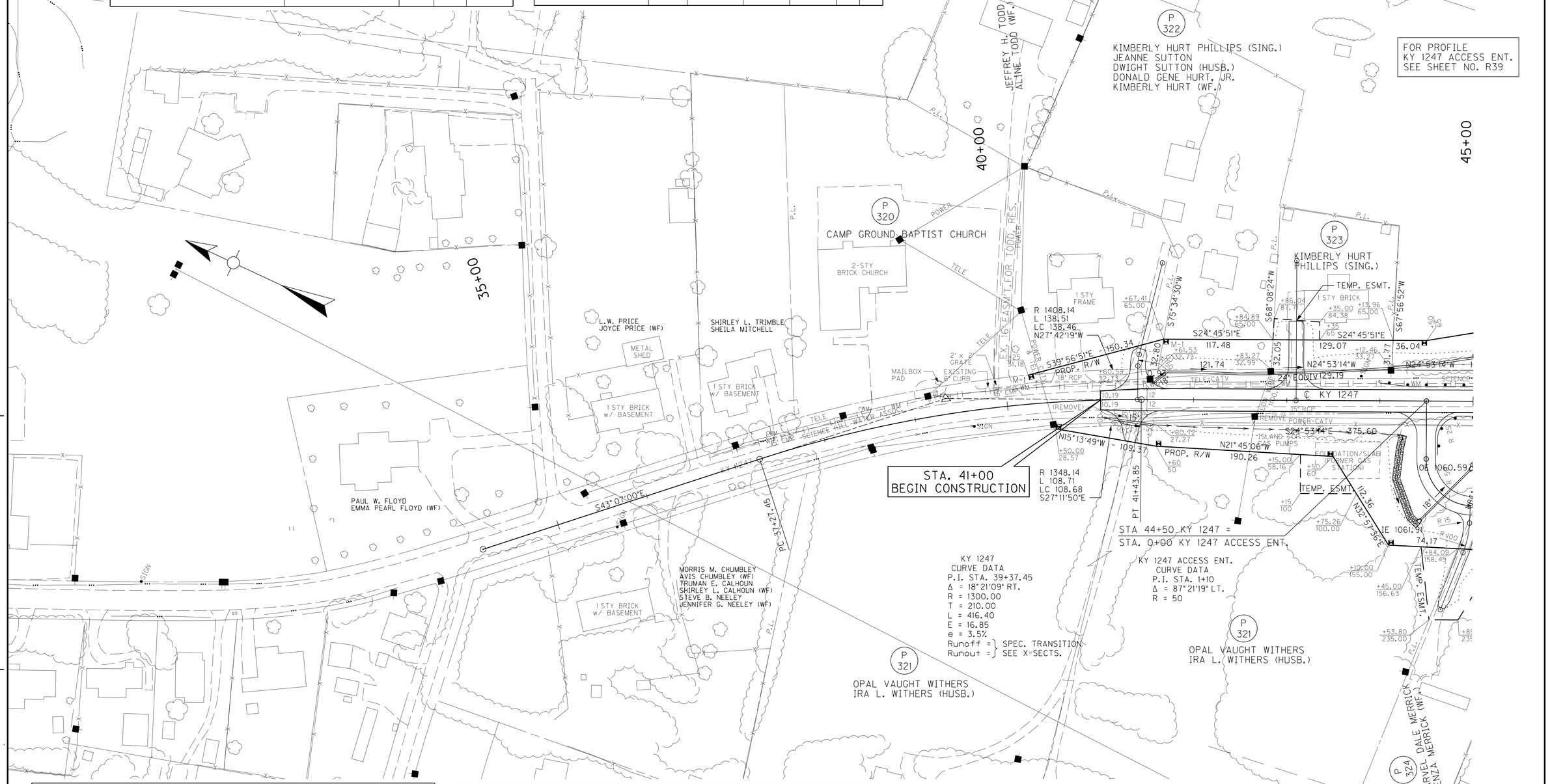
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R38

GUARDRAIL ITEMS - KY 1247

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL END TREATMENT TY 4A	44+00 - 44+37.50	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	44+37.50 - 45+00	LT	LIN FT	62.50
GUARDRAIL TERMINAL SECT NO. 1	44+62	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	44+62 - 45+00	RT	LIN FT	63

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
41+50-41+72	LT	NORMAL	ECB	20	1.03	-
41+72-44+00	LT	2 FT SPCL	ECB	165	0.81	-
44+00-45+00	LT	2 FT SURF	ECB	89	0.64	-



CONSTRUCTION ITEMS - KY 1247

ITEM	STATION	LOCATION	UNIT	QUANTITY
PAVE STRIPING-PERM PAINT - 4 INCH	41+00 - 45+00	CL	LIN FT	800.0
R/W MONUMENT TYPE 1	40+50 - 45+00	LT&RT	EACH	7
WITNESS POST	40+50 - 45+00	LT&RT	EACH	7
REMOVE CONCRETE MASONRY	43+31 - 44+01	RT	CU YD	51.9

ENTRANCES - KY 1247 / ENTRANCE PIPES

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	ENTRANCE PIPES DIA.	TYPE	LENGTH
41+32	RT	RES	16	86	ASPH	15"	ENT	54'
41+40	LT	RES	16	104	ASPH	18"	ENT	18'
43+10	LT	RES	16	159	ASPH	24" EQUIV	ENT	42'
44+50	RT	ACC	20	1265	ASPH			

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
41+00 - 44+25	RT	V-SPCL	ECB	120	0.61	-

PLAN - KY 1247
BEGIN CONSTRUCTION TO STA. 45+00

PREPARED BY JDO DATE 3/17/2014
CHECKED BY JDO DATE 3/17/2014
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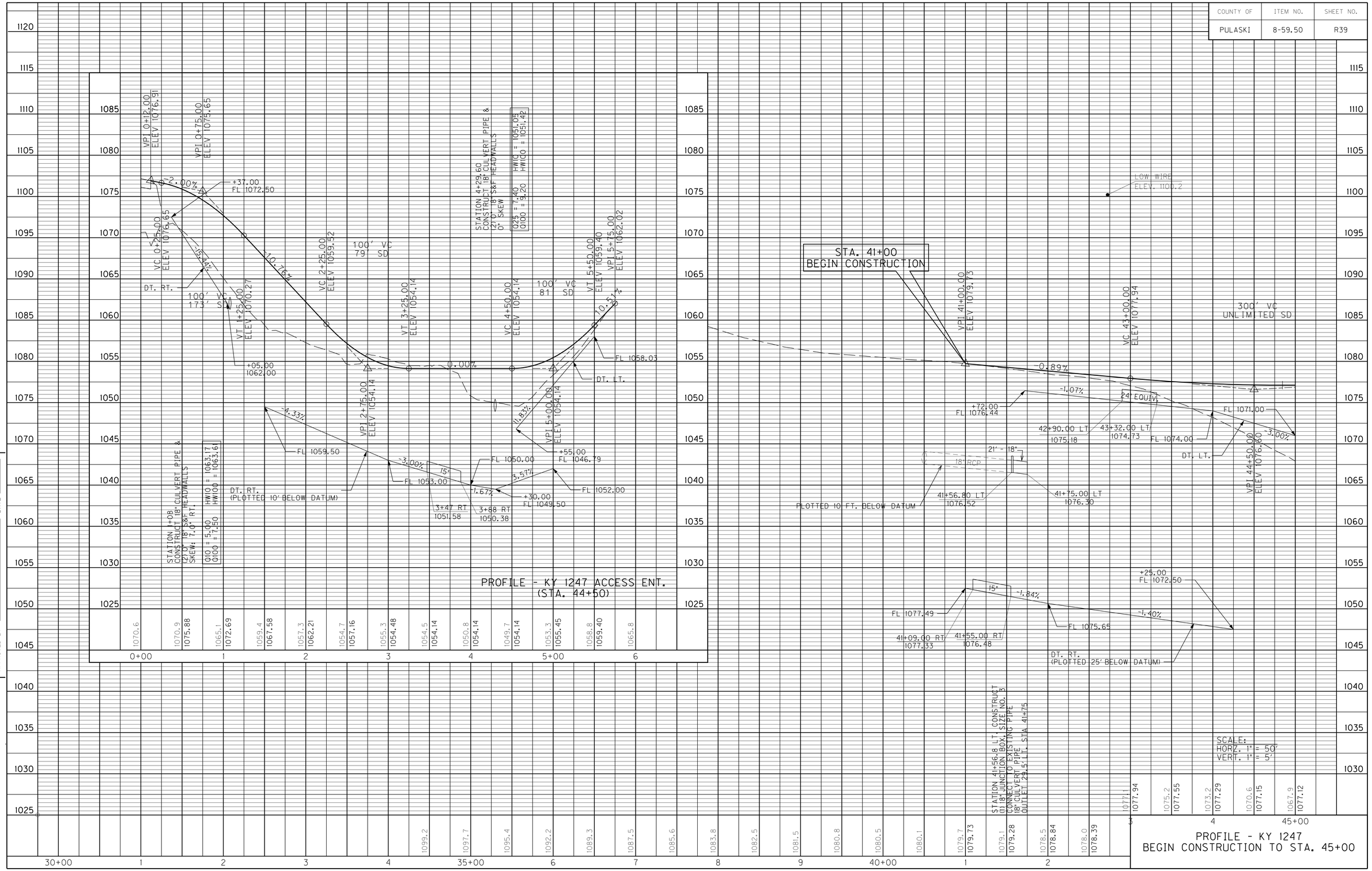
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R39



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Cell Name: spf
3/17/2014

JDG
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R40

CONSTRUCTION ITEMS - KY 1247

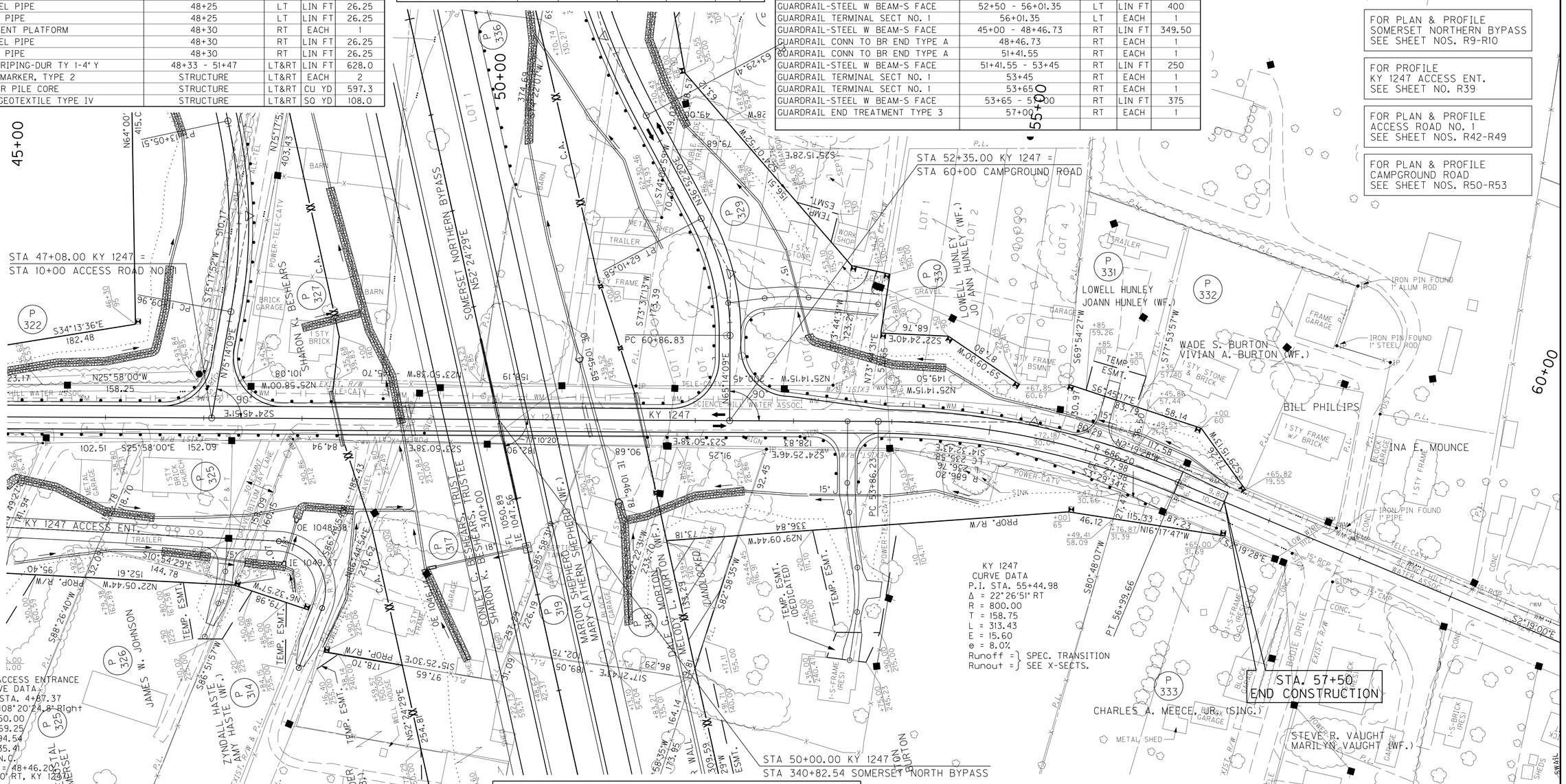
ITEM	STATION	LOCATION	UNIT	QUANTITY
R/W MONUMENT TYPE 1	45+00 - 57+65.82	LT&RT	EACH	13
WITNESS POST	45+00 - 57+65.82	LT&RT	EACH	9
PAVE STRIPING - PERM PAINT - 4 INCH	45+00 - 57+50	CL	LIN FT	1872.00
ISLAND HEADER CURB TYPE 2	48+16.46 - 48+41.46	RT	LIN FT	25
ISLAND HEADER CURB TYPE 2	51+39.54 - 51+64.54	LT	LIN FT	25
SETTLEMENT PLATFORM	48+25	LT	EACH	1
2½" STEEL PIPE	48+25	LT	LIN FT	26.25
4" STEEL PIPE	48+25	LT	LIN FT	26.25
SETTLEMENT PLATFORM	48+30	RT	EACH	1
2½" STEEL PIPE	48+30	RT	LIN FT	26.25
4" STEEL PIPE	48+30	RT	LIN FT	26.25
PAVE STRIPING-DUR TY 1-4" Y	48+33 - 51+47	LT&RT	LIN FT	628.0
OBJECT MARKER, TYPE 2	STRUCTURE	LT&RT	EACH	2
GRANULAR PILE CORE	STRUCTURE	LT&RT	CU YD	597.3
FABRIC-GEOTEXTILE TYPE IV	STRUCTURE	LT&RT	SQ YD	108.0

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
45+00-46+50	LT	2 FT SURF	CL III	150	1.00	2.00
48+00-48+62	LT	2 FT SURF	CL II	22	0.50	1.25
53+25-54+50	LT	2 FT SURF	CL II	43	0.50	1.25
54+50-57+50	LT	2 FT SPCL	ECB	220	0.43	-

GUARDRAIL ITEMS - KY 1247

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL-STEEL W BEAM-S FACE	45+00 - 47+03.79	LT	LIN FT	237.50
GUARDRAIL TERMINAL SECT NO. 1	47+03.79	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	47+34.56 - 48+39.45	LT	LIN FT	137.50
GUARDRAIL CONN TO BR END TYPE A	48+39.45	LT	EACH	1
GUARDRAIL CONN TO BR END TYPE A	51+34.27	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	51+34.27 - 52+20	LT	LIN FT	112.50
GUARDRAIL-STEEL W BEAM-S FACE	52+50 - 56+01.35	LT	LIN FT	400
GUARDRAIL TERMINAL SECT NO. 1	56+01.35	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	45+00 - 48+46.73	RT	LIN FT	349.50
GUARDRAIL CONN TO BR END TYPE A	48+46.73	RT	EACH	1
GUARDRAIL CONN TO BR END TYPE A	51+41.55	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	51+41.55 - 53+45	RT	LIN FT	250
GUARDRAIL TERMINAL SECT NO. 1	53+45	RT	EACH	1
GUARDRAIL TERMINAL SECT NO. 1	53+65	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	53+65 - 57+00	RT	LIN FT	375
GUARDRAIL END TREATMENT TYPE 3	57+00	RT	EACH	1



ENTRANCES - KY 1247 / ENTRANCE PIPES

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	DIA.	TYPE	LENGTH
3+65.39 AC	RT	RES	16	143	ASPH	15"	ENT	41'
53+55	RT	RES	16	394	ASPH	15"	ENT	89'
56+09	LT	RES	12	112	ASPH	15"	ENT	52'

DITCH CONSTRUCTION - KY 1247 ACCESS ENTRANCE

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
1+08	LT	2 FT OUT	CL II	5	0.5	1.25
4+29.60	LT	2 FT OUT	CL II	4	0.5	1.25
4+55-5+50	LT	2 FT SPCL	ECB	42	0.08	-
0+37-1+05	RT	2 FT SURF	CL II	38	0.50	1.25
1+50-3+00	RT	2 FT SPCL	TRM	67	0.38	-
3+00-4+00	RT	2 FT SPCL	CL II	33	1.00	1.25
4+00-4+30	RT	2 FT SURF	CL II	20	1.25	1.25
4+30-5+00	RT	2 FT SURF	ECB	31	0.16	-

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
45+09-46+50	RT	2 FT SURF	CL II	49	0.50	1.25
46+50-48+00	RT	2 FT SURF	TRM	133	0.52	-
48+00-48+53	RT	2 FT SURF	CL II	29	1.00	1.25
48+53-49+16	RT	2 FT SURF	TRM	56	0.82	-
51+29-52+50	RT	3 FT SURF	CL III	121	1.00	2
52+50-55+00	RT	2 FT SURF	ECB	72	0.34	-
57+00-57+50	RT	NORMAL	ECB	22	0.24	-

PREPARED BY JDQ DATE 3/17/2014
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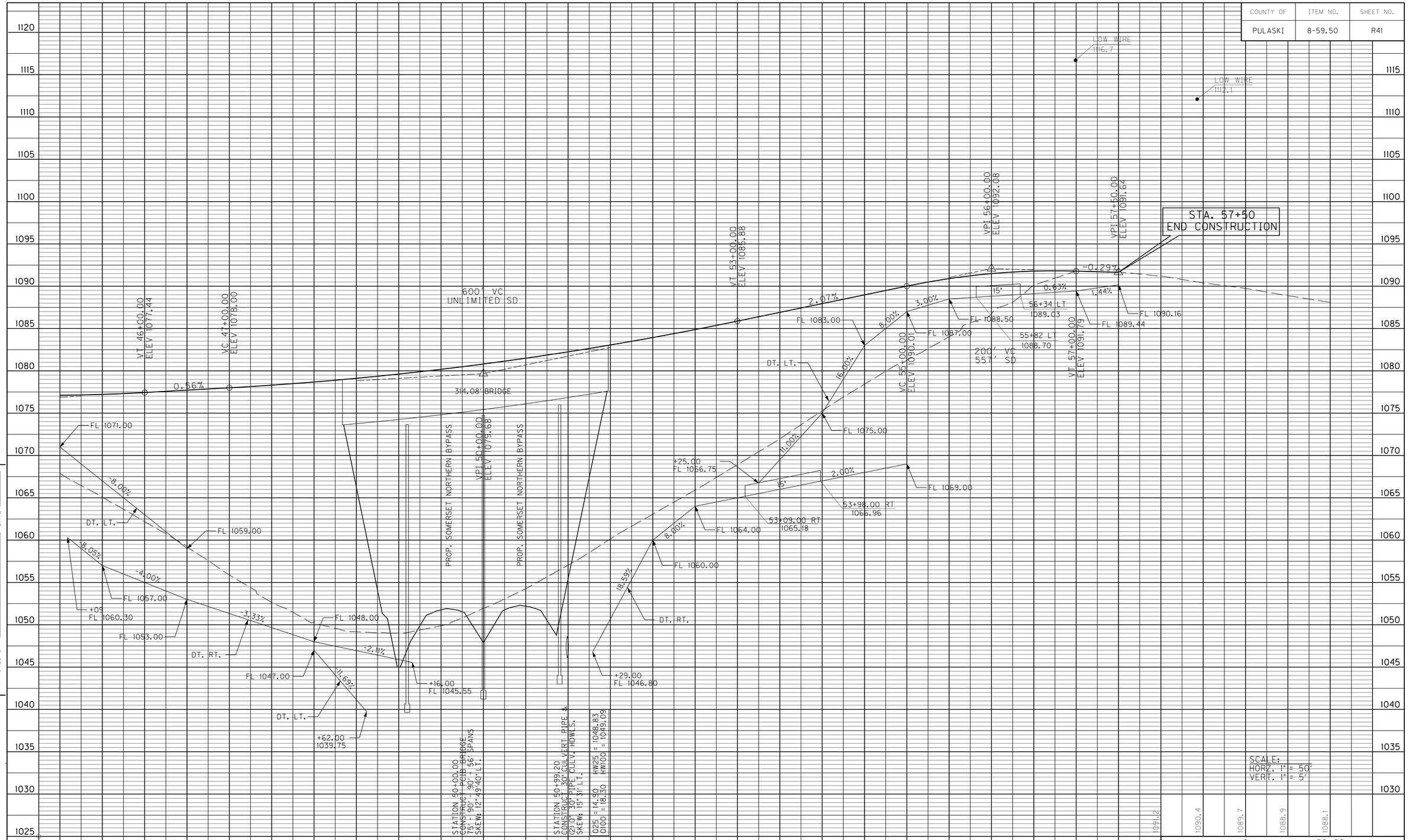
3/17/2014

PLAN - KY 1247
STA. 45+00 TO END CONSTRUCTION

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R41



SCALE:
HORZ. 1" = 50'
VERT. 1" = 5'

PROFILE - KY 1247
STA. 45+00 TO END CONSTRUCTION

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Cell Name: sp4
3/17/2014

JDQ
L-32
FORM NO. 4

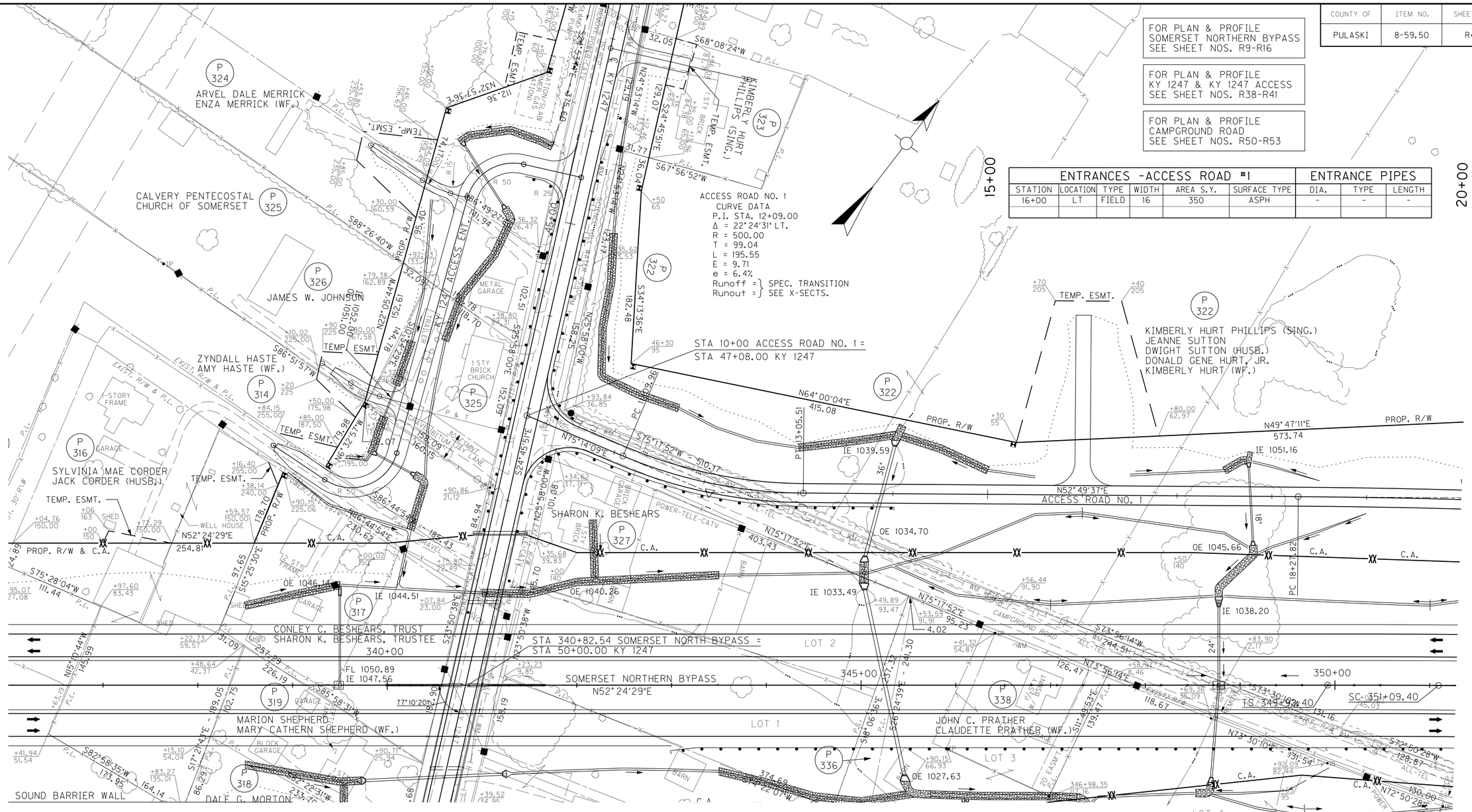
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R42

FOR PLAN & PROFILE
SOMERSET NORTHERN BYPASS
SEE SHEET NOS. R9-R16

FOR PLAN & PROFILE
KY 1247 & KY 1247 ACCESS
SEE SHEET NOS. R38-R41

FOR PLAN & PROFILE
CAMPGROUND ROAD
SEE SHEET NOS. R50-R53

ENTRANCES -ACCESS ROAD #1						ENTRANCE PIPES		
STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	DIA.	TYPE	LENGTH
16+00	LT	FIELD	16	350	ASPH	-	-	-



DITCH CONSTRUCTION (LT SIDE ONLY)						
STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
10+60-11+50	LT	3 FT SURF	CL III	90	1.00	2.00
11+50-13+00	LT	2 FT SURF	ECB	133	0.80	-
13+00-14+05	LT	3 FT SURF	CL III	105	1.00	2.00
13+88.53	LT	4 FT INLET	CL III	18	1.00	2.00
14+05-15+00	LT	2 FT SURF	CL II	33	0.50	1.25
15+00-15+50	LT	2 FT SPCL	ECB	22	0.18	-
16+50-17+50	LT	2 FT SPCL	ECB	44	0.40	-
17+50-17+75	LT	2 FT SPCL	CL II	9	0.50	1.25
17+75-18+50	LT	2 FT SPCL	ECB	33	0.11	-
17+77.40	LT	2 FT INLET	CL II	7	1.00	1.25
18+50-20+00	LT	NORMAL	ECB	67	0.46	-

DITCH CONSTRUCTION (RT SIDE ONLY)						
STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
13+67-14+50	RT	2 FT SURF	ECB	37	0.24	-
13+88.53	RT	4 FT OUT	CL III	26	1.00	2.00
14+50-15+50	RT	2 FT SPCL	TRM	44	0.09	-
15+50-17+50	RT	2 FT SPCL	ECB	89	0.18	-
17+50-17+80	RT	2 FT SURF	TRM	13	0.08	-
17+77.40	RT	3 FT OUT	CL III	65	1.00	2.00
17+82-19+00	RT	2 FT SPCL	ECB	52	0.12	-
19+00-20+00	RT	NORMAL	ECB	44	0.29	-

GUARDRAIL ITEMS - ACCESS ROAD #1				
ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL-STEEL W BEAM-S FACE	10+73.54 - 14+00	RT	LIN FT	337.50
GUARDRAIL END TREATMENT TYPE 2A	14+00	RT	EACH	1

CONSTRUCTION ITEMS - ACCESS ROAD NO. 1				
	STATION TO STATION	LOCATION	UNIT	QUANTITY
PAVE MRKG-THERMO STOP BAR-24"	10+18	RT	LIN FT	23.5
R/W MONUMENT TYPE 1	10+00 - 20+00	LT	EACH	1
WITNESS POST	10+00 - 20+00	LT	EACH	1

PREPARED BY DATE
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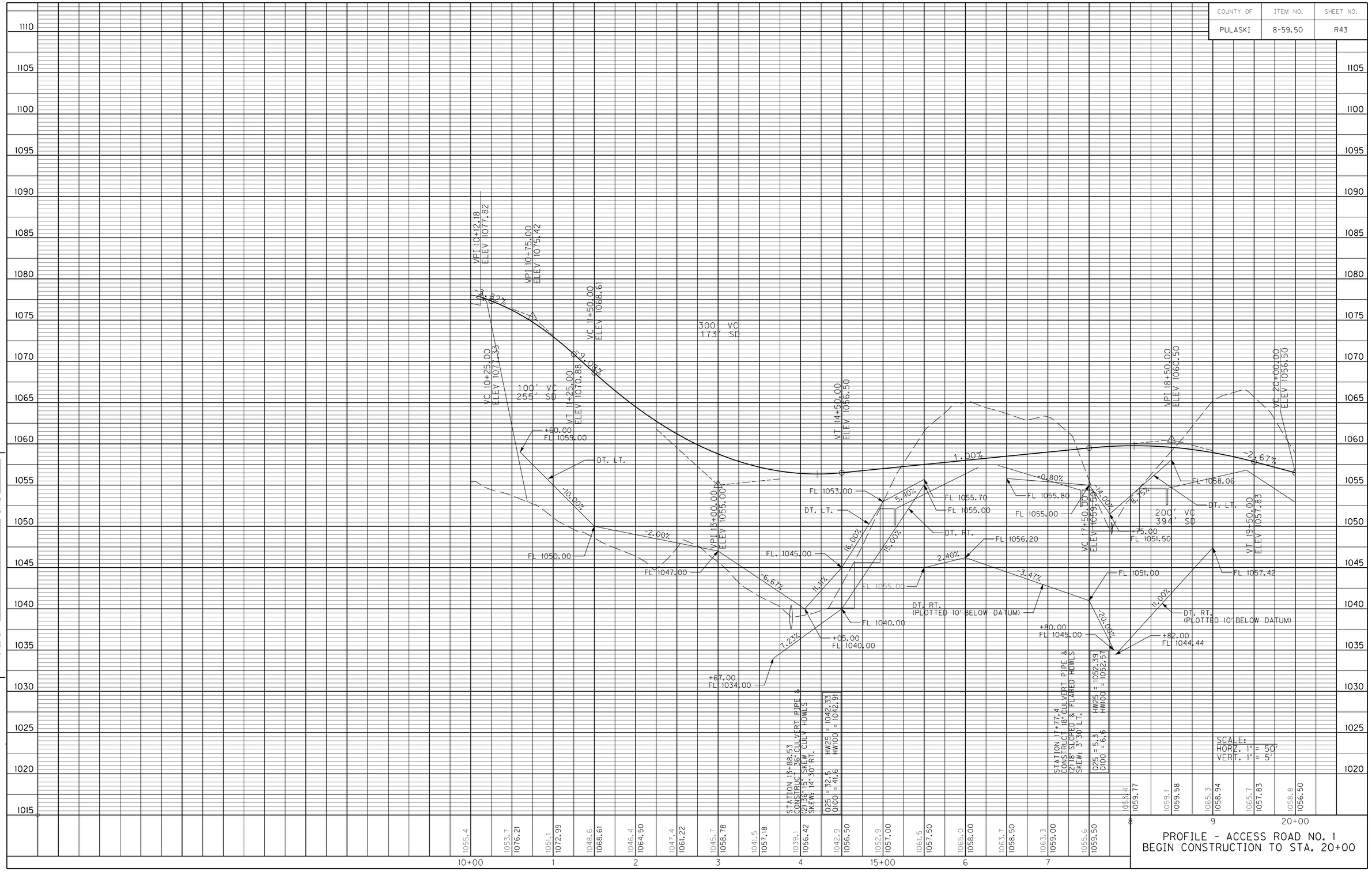
Cell Name: sp
3/17/2014

PLAN - ACCESS ROAD NO. 1
BEGIN CONSTRUCTION TO STA. 20+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R43



PROFILE - ACCESS ROAD NO. 1
BEGIN CONSTRUCTION TO STA. 20+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: spf
3/17/2014

JDQ
1-92
FORM NO. 4

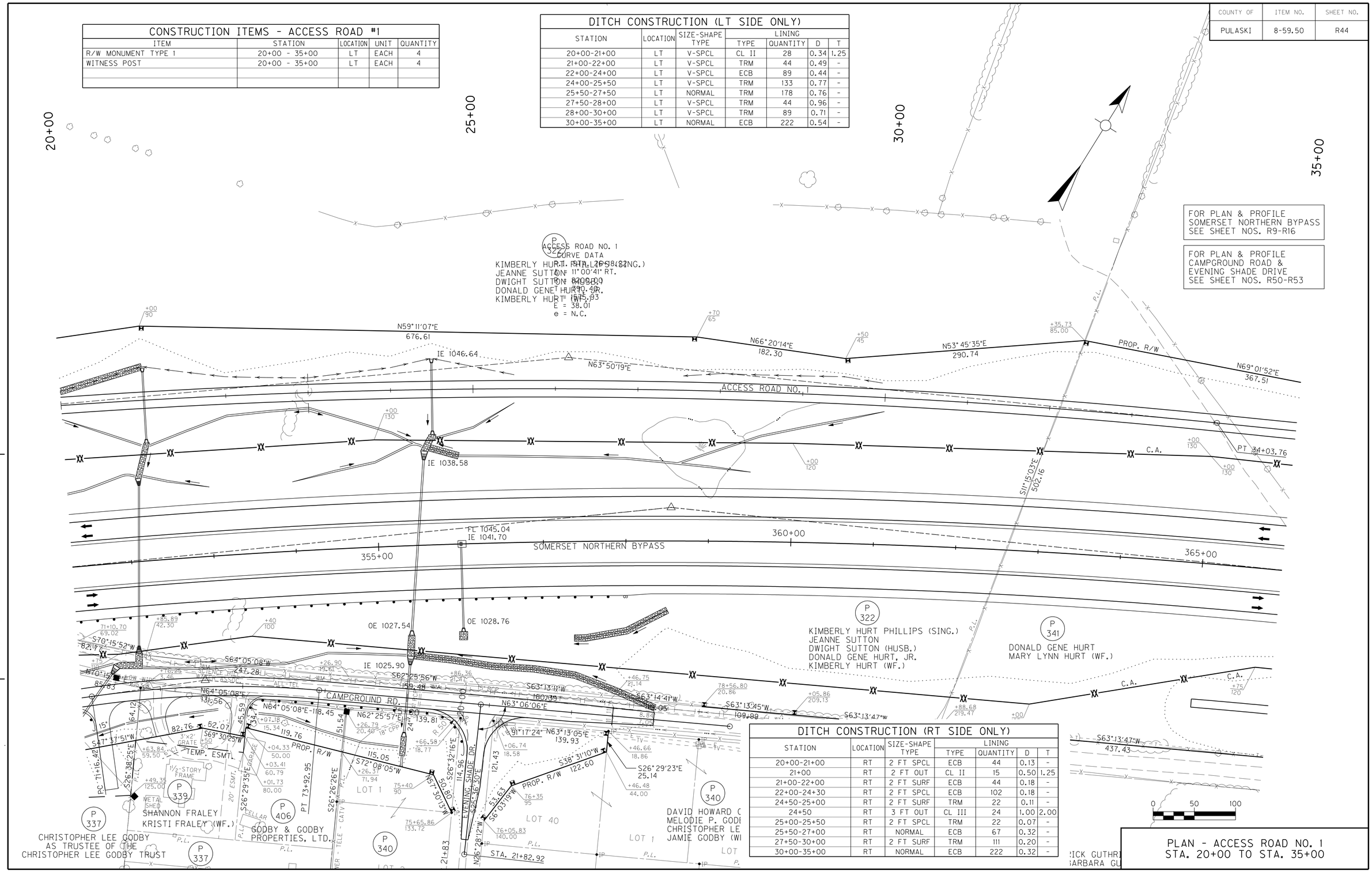
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R44

CONSTRUCTION ITEMS - ACCESS ROAD #1

ITEM	STATION	LOCATION	UNIT	QUANTITY
R/W MONUMENT TYPE 1	20+00 - 35+00	LT	EACH	4
WITNESS POST	20+00 - 35+00	LT	EACH	4

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
20+00-21+00	LT	V-SPCL	CL II	28	0.34	1.25
21+00-22+00	LT	V-SPCL	TRM	44	0.49	-
22+00-24+00	LT	V-SPCL	ECB	89	0.44	-
24+00-25+50	LT	V-SPCL	TRM	133	0.77	-
25+50-27+50	LT	NORMAL	TRM	178	0.76	-
27+50-28+00	LT	V-SPCL	TRM	44	0.96	-
28+00-30+00	LT	V-SPCL	TRM	89	0.71	-
30+00-35+00	LT	NORMAL	ECB	222	0.54	-



DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
20+00-21+00	RT	2 FT SPCL	ECB	44	0.13	-
21+00	RT	2 FT OUT	CL II	15	0.50	1.25
21+00-22+00	RT	2 FT SURF	ECB	44	0.18	-
22+00-24+30	RT	2 FT SPCL	ECB	102	0.18	-
24+50-25+00	RT	2 FT SURF	TRM	22	0.11	-
24+50	RT	3 FT OUT	CL III	24	1.00	2.00
25+00-25+50	RT	2 FT SPCL	TRM	22	0.07	-
25+50-27+00	RT	NORMAL	ECB	67	0.32	-
27+50-30+00	RT	2 FT SURF	TRM	111	0.20	-
30+00-35+00	RT	NORMAL	ECB	222	0.32	-

PLAN - ACCESS ROAD NO. 1
STA. 20+00 TO STA. 35+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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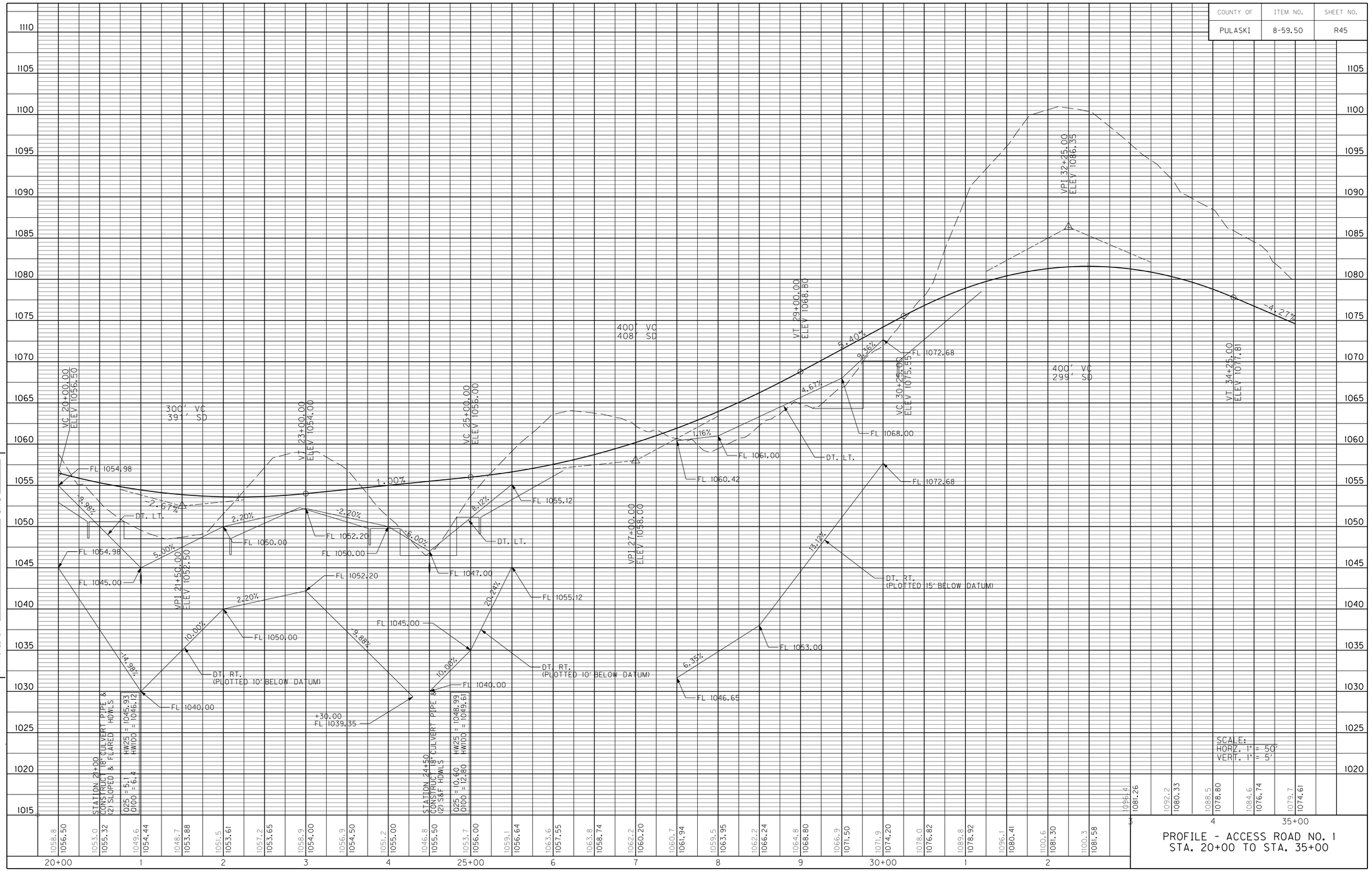
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R45



SCALE:
HORZ. 1" = 50'
VERT. 1" = 5'

PROFILE - ACCESS ROAD NO. 1
STA. 20+00 TO STA. 35+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: sp1
3/17/2014

JDG
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R46

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
35+00-36+00	LT	NORMAL	ECB	44	0.42	-
36+00-36+50	LT	2 FT SPCL	CL II	17	0.50	1.25
36+50-40+00	LT	2 FT SURF	ECB	260	0.89	-
40+00-40+50	LT	3 FT SURF	CL III	50	1.00	2.00
40+50-42+00	LT	2 FT SURF	CL II	52	0.50	1.25
41+00	LT	10'x18'	CL III	20		2.00
42+00-44+00	LT	2 FT SURF	ECB	89	0.35	1.25
44+00-44+50	LT	2 FT SPCL	ECB	22	0.18	-
44+50-46+50	LT	NORMAL	ECB	89	0.41	-
46+50-48+00	LT	2 FT SPCL	ECB	133	0.77	-
48+00-49+50	LT	2 FT SPCL	TRM	133	0.62	-
49+50-50+00	LT	NORMAL	ECB	22	0.71	-

CONSTRUCTION ITEMS - ACCESS ROAD #1

ITEM	STATION	LOCATION	UNIT	QUANTITY
R/W MONUMENT TYPE I	35+00 - 50+00	LT	EACH	5
WITNESS POST	35+00 - 50+00	LT	EACH	5

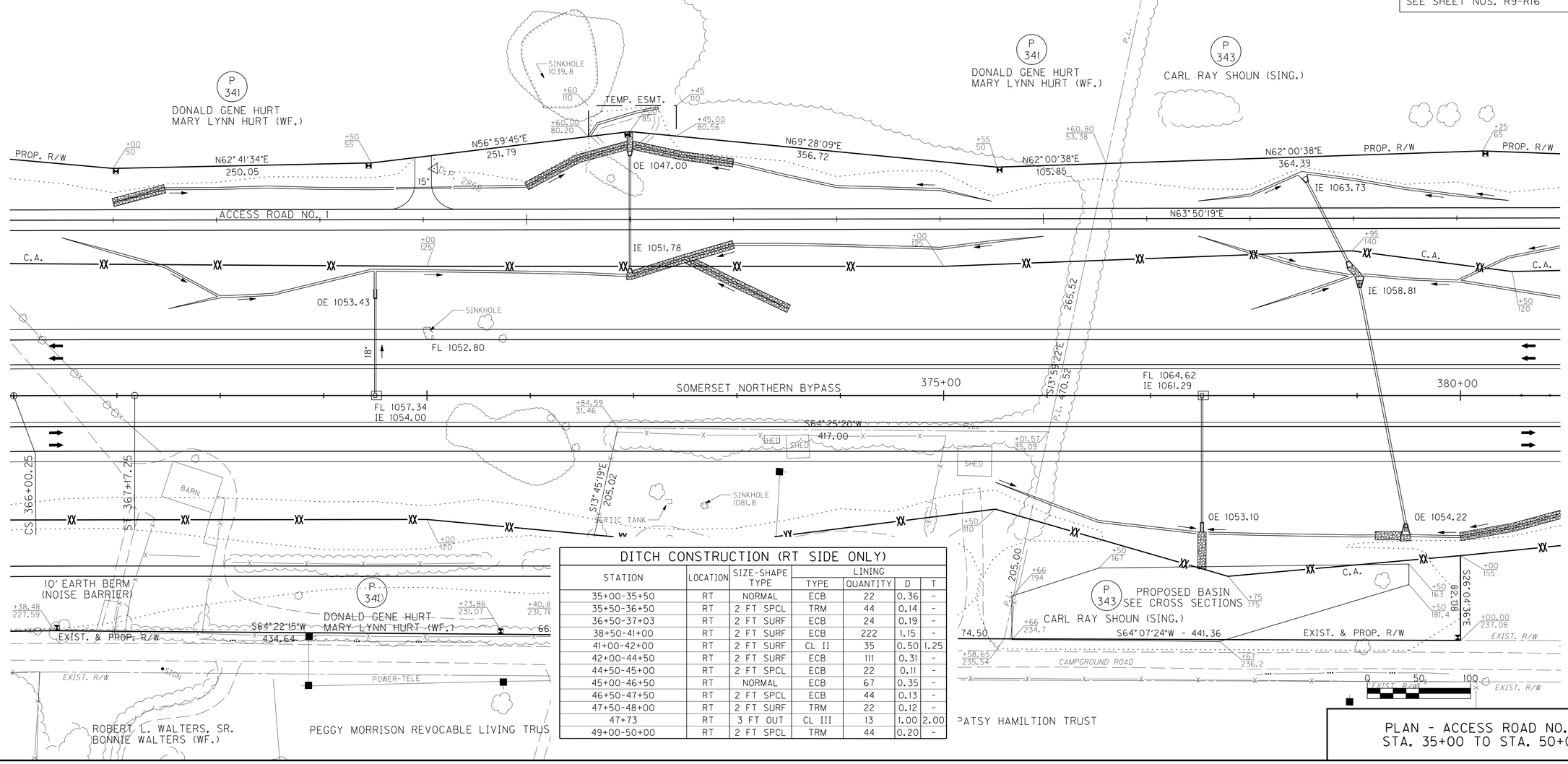
ENTRANCES -ACCESS ROAD #1

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE
39+00	LT	FIELD	16	120	ASPH

ENTRANCE PIPES

DIA.	TYPE	LENGTH
15"	ENT	58'

FOR PLAN & PROFILE
SOMERSET NORTHERN BYPASS
SEE SHEET NOS. R9-R16



DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
35+00-35+50	RT	NORMAL	ECB	22	0.36	-
35+50-36+50	RT	2 FT SPCL	TRM	44	0.14	-
36+50-37+03	RT	2 FT SURF	ECB	24	0.19	-
38+50-41+00	RT	2 FT SURF	ECB	222	1.15	-
41+00-42+00	RT	2 FT SURF	CL II	35	0.50	1.25
42+00-44+50	RT	2 FT SURF	ECB	111	0.31	-
44+50-45+00	RT	2 FT SPCL	ECB	22	0.11	-
45+00-46+50	RT	NORMAL	ECB	67	0.35	-
46+50-47+50	RT	2 FT SPCL	ECB	44	0.13	-
47+50-48+00	RT	2 FT SURF	TRM	22	0.12	-
47+73	RT	3 FT OUT	CL III	13	1.00	2.00
49+00-50+00	RT	2 FT SPCL	TRM	44	0.20	-

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CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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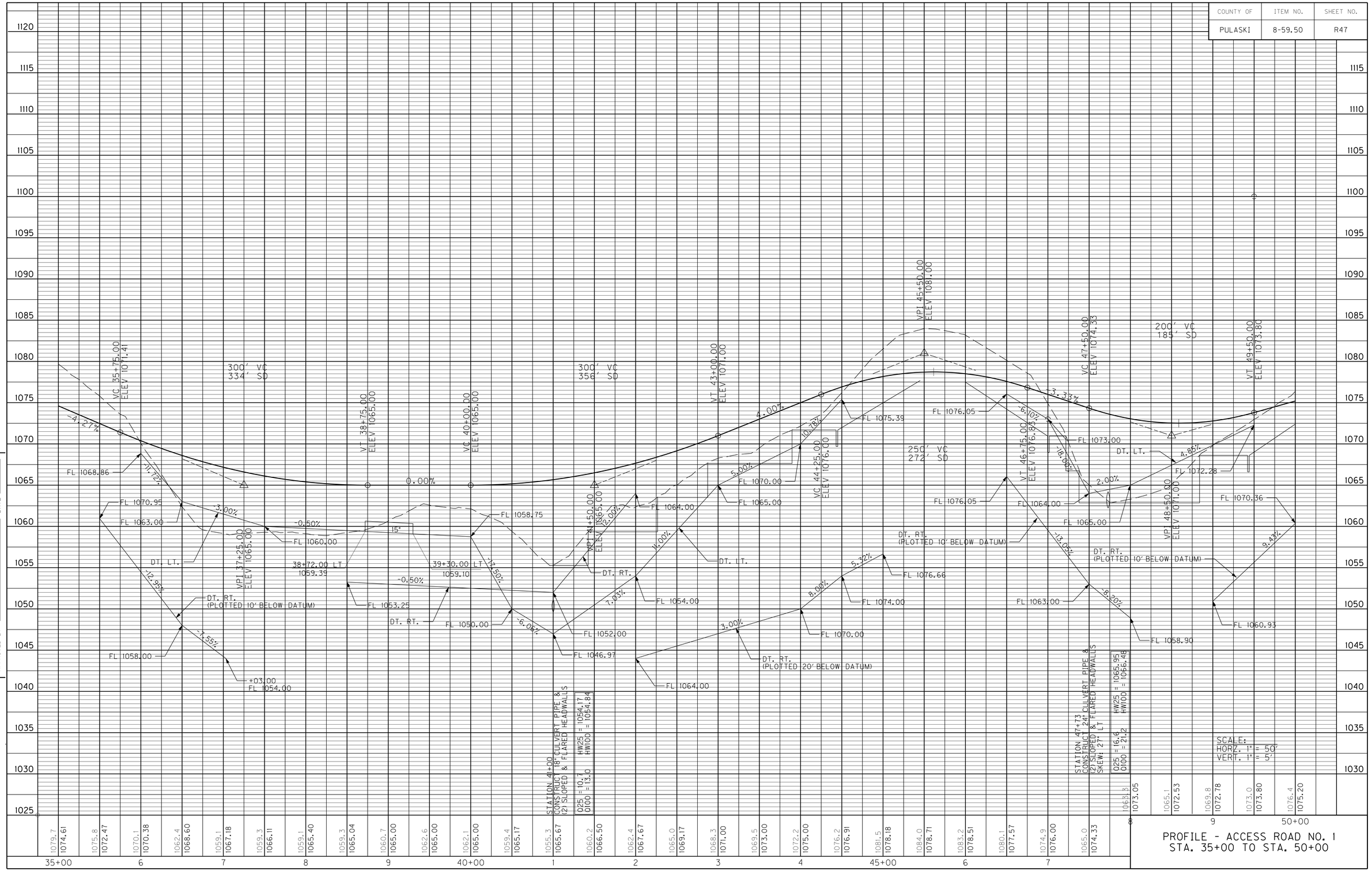
Cell Name: sp
3/17/2014

PLAN - ACCESS ROAD NO. 1
STA. 35+00 TO STA. 50+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R47



PROFILE - ACCESS ROAD NO. 1
STA. 35+00 TO STA. 50+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Names: sp1
3/17/2014

JDQ
L-52
FORM NO. 4

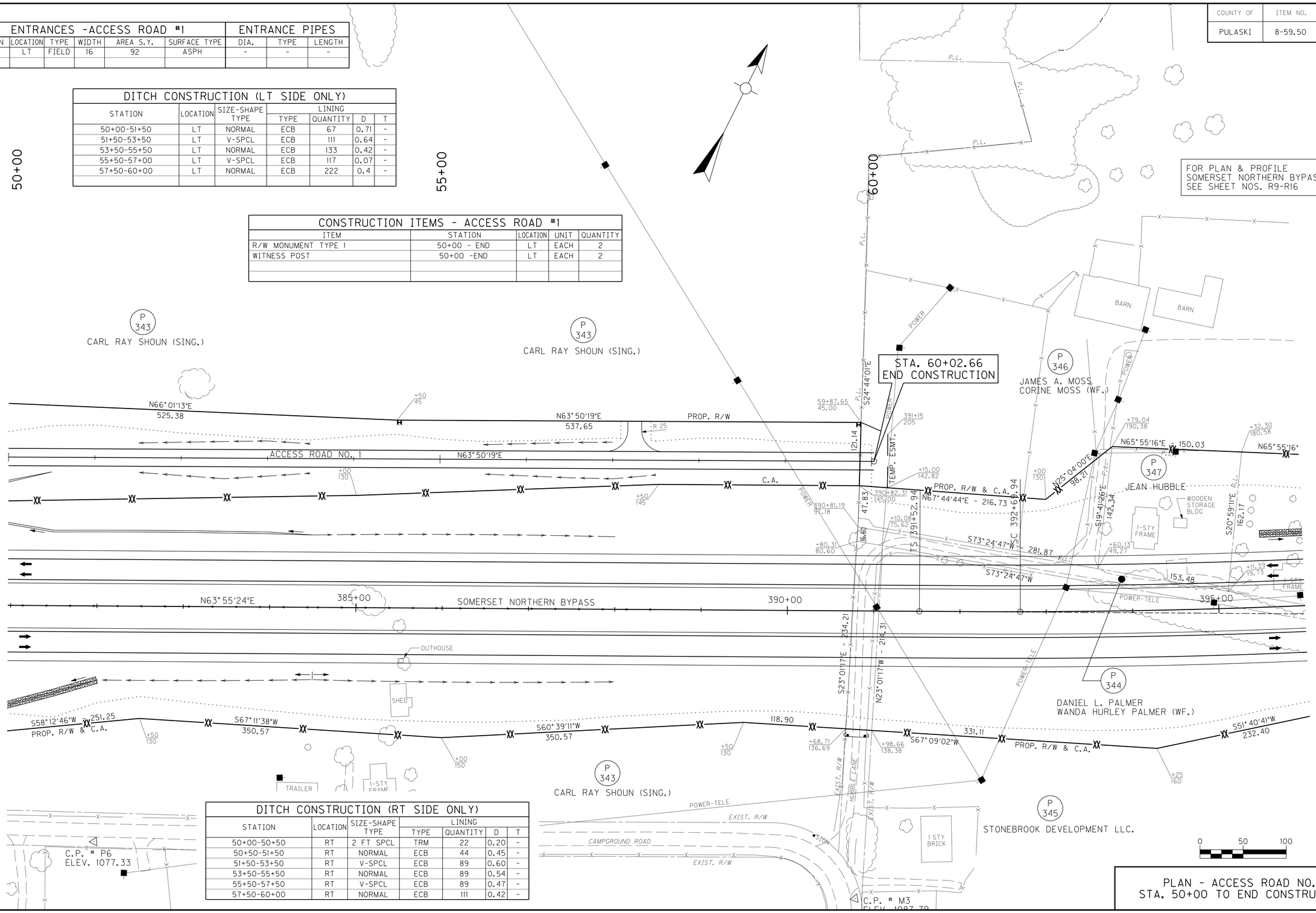
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R48

ENTRANCES -ACCESS ROAD #1						ENTRANCE PIPES		
STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	DIA.	TYPE	LENGTH
57+25	LT	FIELD	16	92	ASPH	-	-	-

DITCH CONSTRUCTION (LT SIDE ONLY)						
STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
50+00-51+50	LT	NORMAL	ECB	67	0.71	-
51+50-53+50	LT	V-SPCL	ECB	111	0.64	-
53+50-55+50	LT	NORMAL	ECB	133	0.42	-
55+50-57+00	LT	V-SPCL	ECB	117	0.07	-
57+50-60+00	LT	NORMAL	ECB	222	0.4	-

CONSTRUCTION ITEMS - ACCESS ROAD #1				
ITEM	STATION	LOCATION	UNIT	QUANTITY
R/W MONUMENT TYPE 1	50+00 - END	LT	EACH	2
WITNESS POST	50+00 -END	LT	EACH	2

FOR PLAN & PROFILE
SOMERSET NORTHERN BYPASS
SEE SHEET NOS. R9-R16



DITCH CONSTRUCTION (RT SIDE ONLY)						
STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
50+00-50+50	RT	2 FT SPCL	TRM	22	0.20	-
50+50-51+50	RT	NORMAL	ECB	44	0.45	-
51+50-53+50	RT	V-SPCL	ECB	89	0.60	-
53+50-55+50	RT	NORMAL	ECB	89	0.54	-
55+50-57+50	RT	V-SPCL	ECB	89	0.47	-
57+50-60+00	RT	NORMAL	ECB	111	0.42	-

PLAN - ACCESS ROAD NO. 1
STA. 50+00 TO END CONSTRUCTION

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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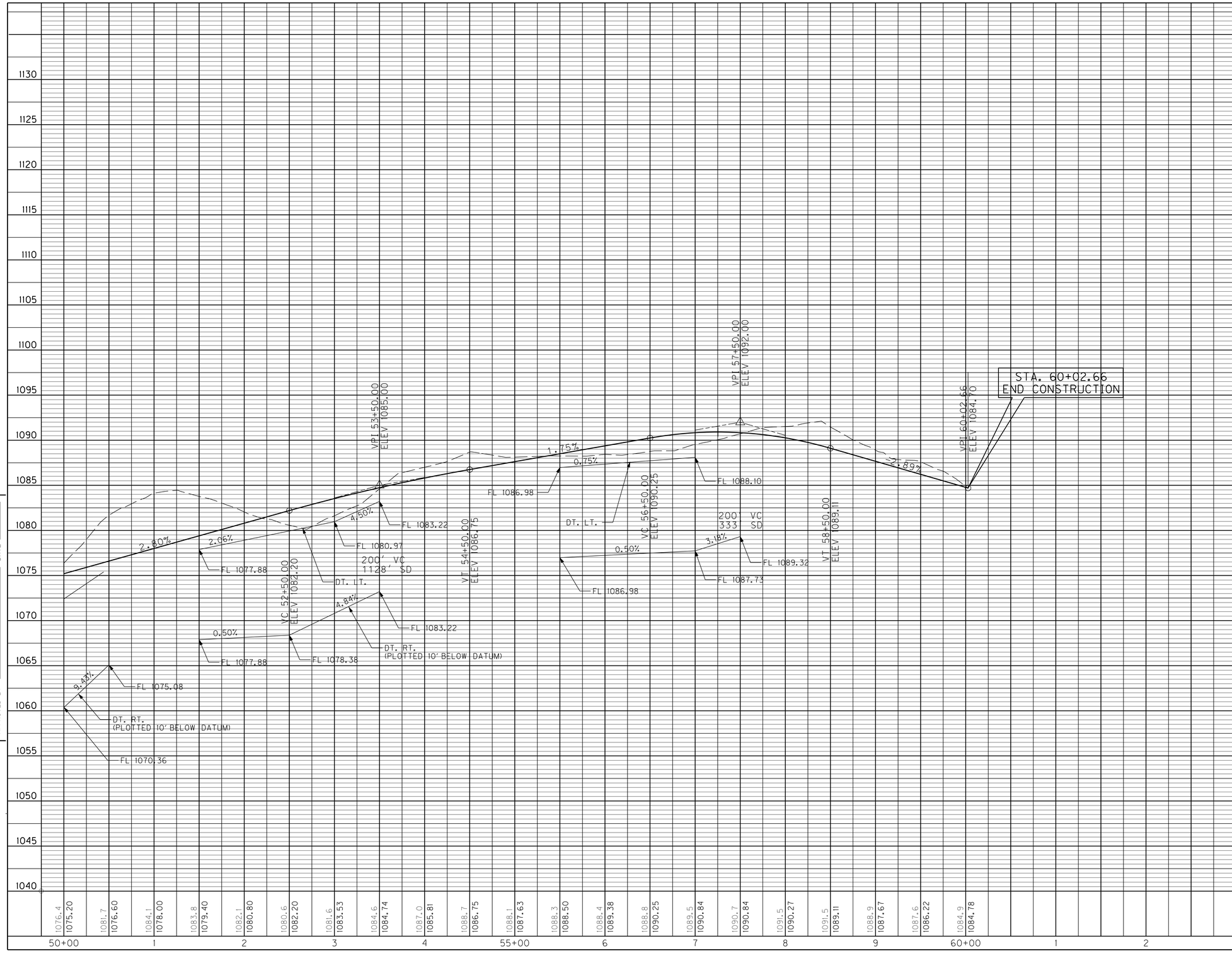
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R49



SCALE:
HORZ. 1" = 50'
VERT. 1" = 5'

PROFILE - ACCESS ROAD NO. 1
STA. 50+00 TO END CONSTRUCTION

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: spf
3/17/2014

JDG
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R50

CONSTRUCTION ITEMS - CAMPGROUND ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
PAVE STRIPING - PERM PAINT - 4 IN	60+21 - 70+00	CL	LIN FT	1958.00
SEPTIC TANK TREATMENT	61+37	120'RT	EACH	1
SEPTIC TANK TREATMENT	62+00	90'RT	EACH	1
PAVE MRKG-THERMO STOP BAR-24"	60+21	RT	LIN FT	31.5
R/W MONUMENT TYPE 1	60+00 - 70+00	RT	EACH	3
WITNESS POST	60+00 - 70+00	RT	EACH	3

GUARDRAIL ITEMS - CAMPGROUND ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL-STEEL W BEAM-S FACE	60+62 - 69+12.50	LT	LIN FT	862.50
GUARDRAIL END TREATMENT TYPE 4A	69+12.50 - 69+50	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	60+75 - 61+10	RT	LIN FT	50
GUARDRAIL TERMINAL SECT NO. 1	61+10	RT	EACH	1
GUARDRAIL TERMINAL SECT NO. 1	64+80	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	64+80 - 70+00	RT	LIN FT	537.50

DITCH CONSTRUCTION (LT SIDE ONLY)

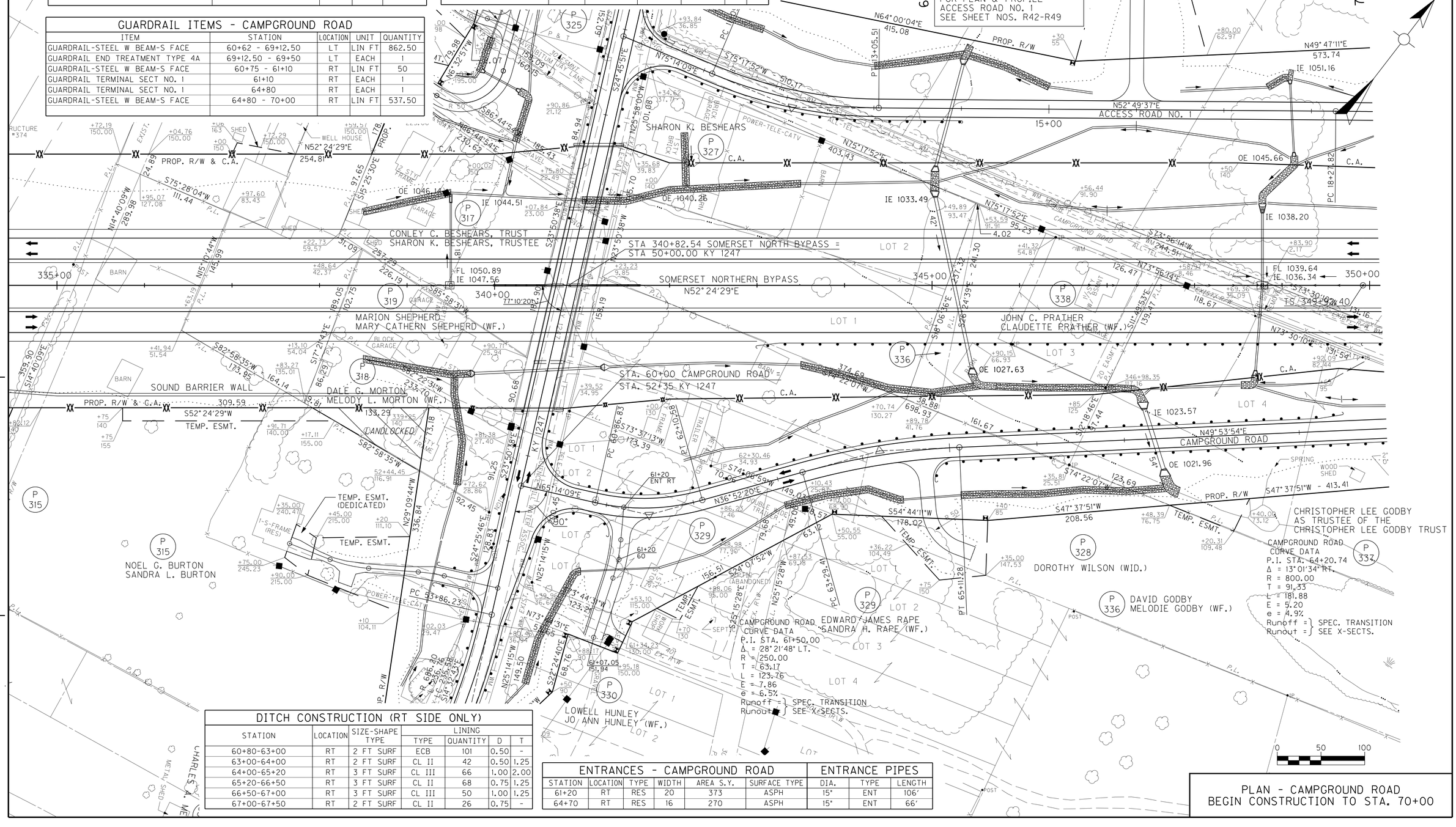
STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
62+00-63+00	LT	2 FT SURF	ECB	44	0.16	-
63+00-64+50	LT	2 FT SURF	TRM	67	0.11	-
68+50-69+50	LT	2 FT SPCL	ECB	44	0.12	-
69+50-70+00	LT	2 FT SPCL	ECB	44	0.47	-

FOR PLAN & PROFILE
SOMERSET NORTHERN BYPASS
SEE SHEET NOS. R9-R12

FOR PLAN & PROFILE
KY 1247
SEE SHEET NOS. R38-R41

FOR PROFILE
KY 1247 ACCESS ENT.
SEE SHEET NO. R39

FOR PLAN & PROFILE
ACCESS ROAD NO. 1
SEE SHEET NOS. R42-R49



DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
60+80-63+00	RT	2 FT SURF	ECB	101	0.50	-
63+00-64+00	RT	2 FT SURF	CL II	42	0.50	1.25
64+00-65+20	RT	3 FT SURF	CL III	66	1.00	2.00
65+20-66+50	RT	3 FT SURF	CL II	68	0.75	1.25
66+50-67+00	RT	3 FT SURF	CL III	50	1.00	1.25
67+00-67+50	RT	2 FT SURF	CL II	26	0.75	-

ENTRANCES - CAMPGROUND ROAD / ENTRANCE PIPES

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	DIA.	TYPE	LENGTH
61+20	RT	RES	20	373	ASPH	15"	ENT	106'
64+70	RT	RES	16	270	ASPH	15"	ENT	66'

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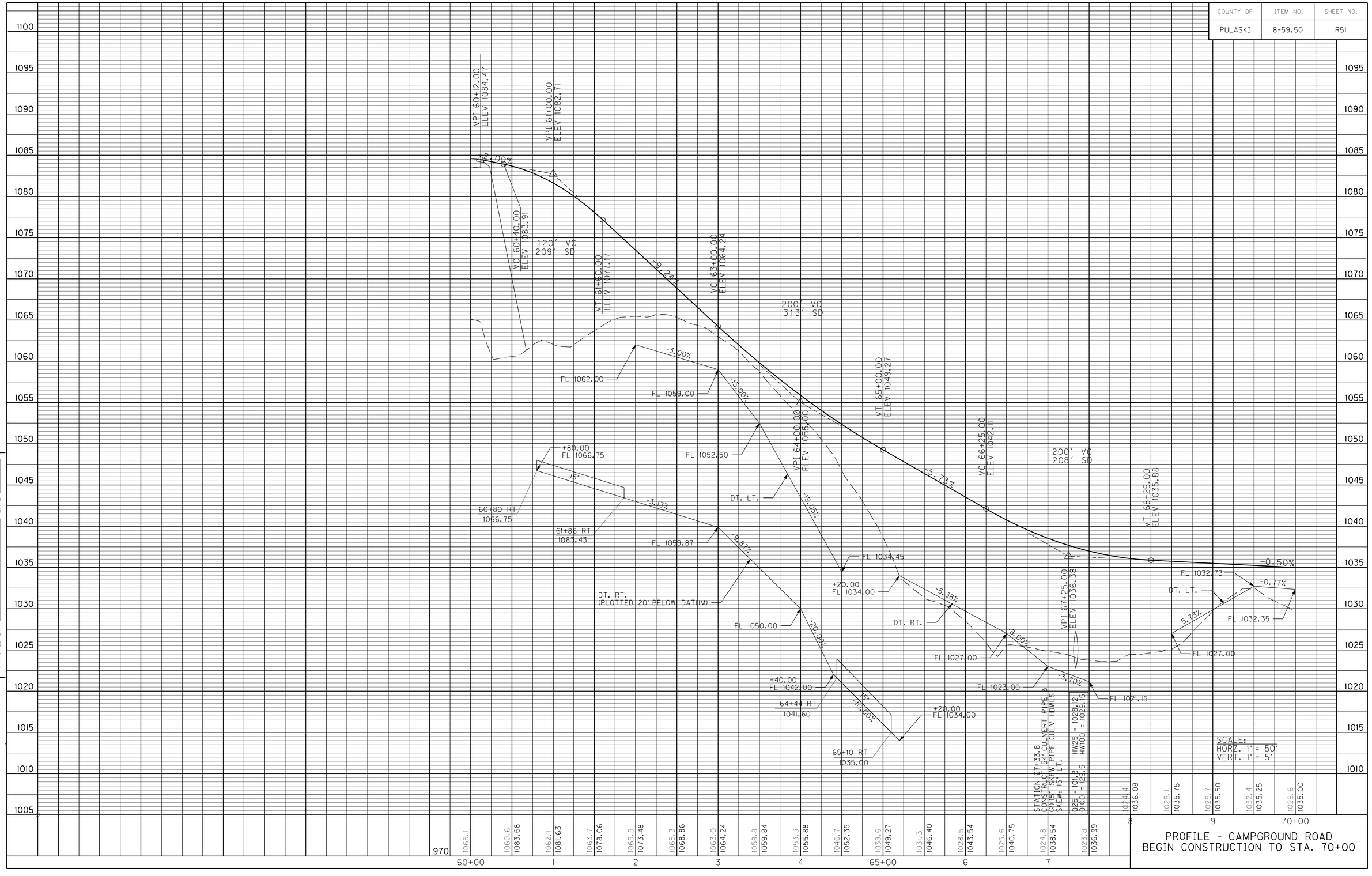
Cell Name: sp
3/17/2014

PLAN - CAMPGROUND ROAD
BEGIN CONSTRUCTION TO STA. 70+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R51



PROFILE - CAMPGROUND ROAD
BEGIN CONSTRUCTION TO STA. 70+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: sbf
3/17/2014

JDQ
L-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R52

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	LINING D	LINING T
70+00-71+50	LT	2 FT SPCL	ECB	133	0.61	-
71+50-71+78	LT	2 FT SPCL	CL II	19	1.00	1.25
71+78-75+00	LT	2 FT SPCL	ECB	143	0.40	-
75+00-75+50	LT	2 FT SURF	CL II	49	1.50	1.25
75+50-76+50	LT	2 FT SURF	CL II	69	1.00	1.25
76+50-77+00	LT	3 FT SURF	CL III	61	1.00	2.00
77+00-78+00	LT	2 FT SPCL	CL II	42	0.50	1.25

GUARDRAIL ITEMS - CAMPGROUND ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL-STEEL W BEAM-S FACE	70+00 - 71+15	RT	EACH	137.50
GUARDRAIL TERMINAL SECT NO. 1	71+15	RT	EACH	1
GUARDRAIL TERMINAL SECT NO. 1	73+05.64	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	73+05.64 - 75+75.65	RT	EACH	325
GUARDRAIL TERMINAL SECT NO. 1	75+75.65	RT	EACH	1

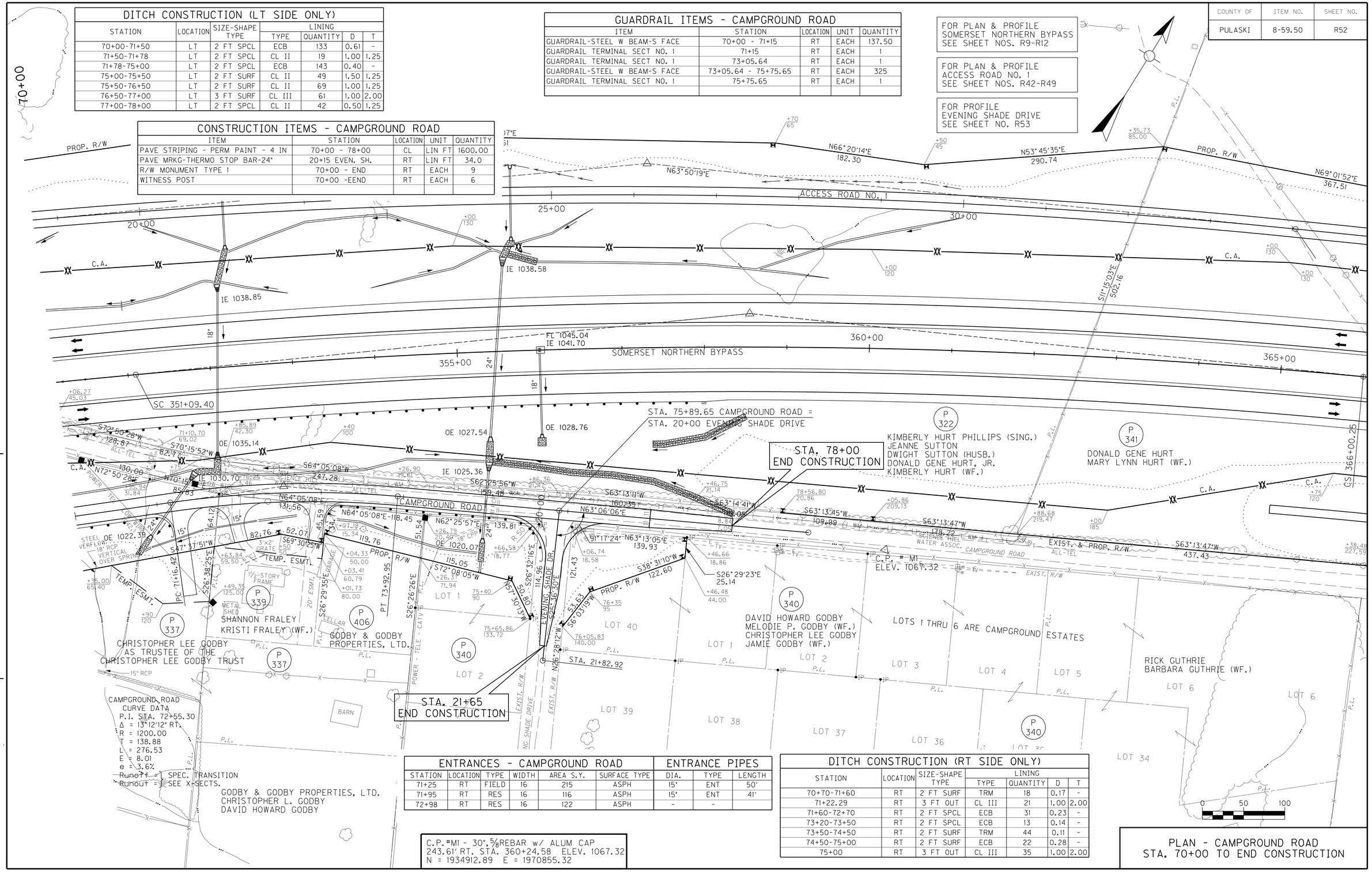
CONSTRUCTION ITEMS - CAMPGROUND ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
PAVE STRIPING - PERM PAINT - 4 IN	70+00 - 78+00	CL	LIN FT	1600.00
PAVE MRKG-THERMO STOP BAR-24"	20+15 EVEN. SH.	RT	LIN FT	34.0
R/W MONUMENT TYPE 1	70+00 - END	RT	EACH	9
WITNESS POST	70+00 -EEND	RT	EACH	6

FOR PLAN & PROFILE
SOMERSET NORTHERN BYPASS
SEE SHEET NOS. R9-R12

FOR PLAN & PROFILE
ACCESS ROAD NO. 1
SEE SHEET NOS. R42-R49

FOR PROFILE
EVENING SHADE DRIVE
SEE SHEET NO. R53



ENTRANCES - CAMPGROUND ROAD / ENTRANCE PIPES

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	ENTRANCE PIPES DIA.	TYPE	LENGTH
71+25	RT	FIELD	16	215	ASPH	15"	ENT	50'
71+95	RT	RES	16	116	ASPH	15"	ENT	41'
72+98	RT	RES	16	122	ASPH	-	-	

C.P. #M1 - 30", 5/8 REBAR w/ ALUM CAP
243.61' RT. STA. 360+24.58 ELEV. 1067.32
N = 1934912.89 E = 1970855.32

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	LINING D	LINING T
70+70-71+60	RT	2 FT SURF	TRM	18	0.17	-
71+22.29	RT	3 FT OUT	CL III	21	1.00	2.00
71+60-72+70	RT	2 FT SPCL	ECB	31	0.23	-
73+20-73+50	RT	2 FT SPCL	ECB	13	0.14	-
73+50-74+50	RT	2 FT SURF	TRM	44	0.11	-
74+50-75+00	RT	2 FT SURF	ECB	22	0.28	-
75+00	RT	3 FT OUT	CL III	35	1.00	2.00

PLAN - CAMPGROUND ROAD
STA. 70+00 TO END CONSTRUCTION

PREPARED BY DATE
CHECKED BY DATE
APPROVED BY DATE

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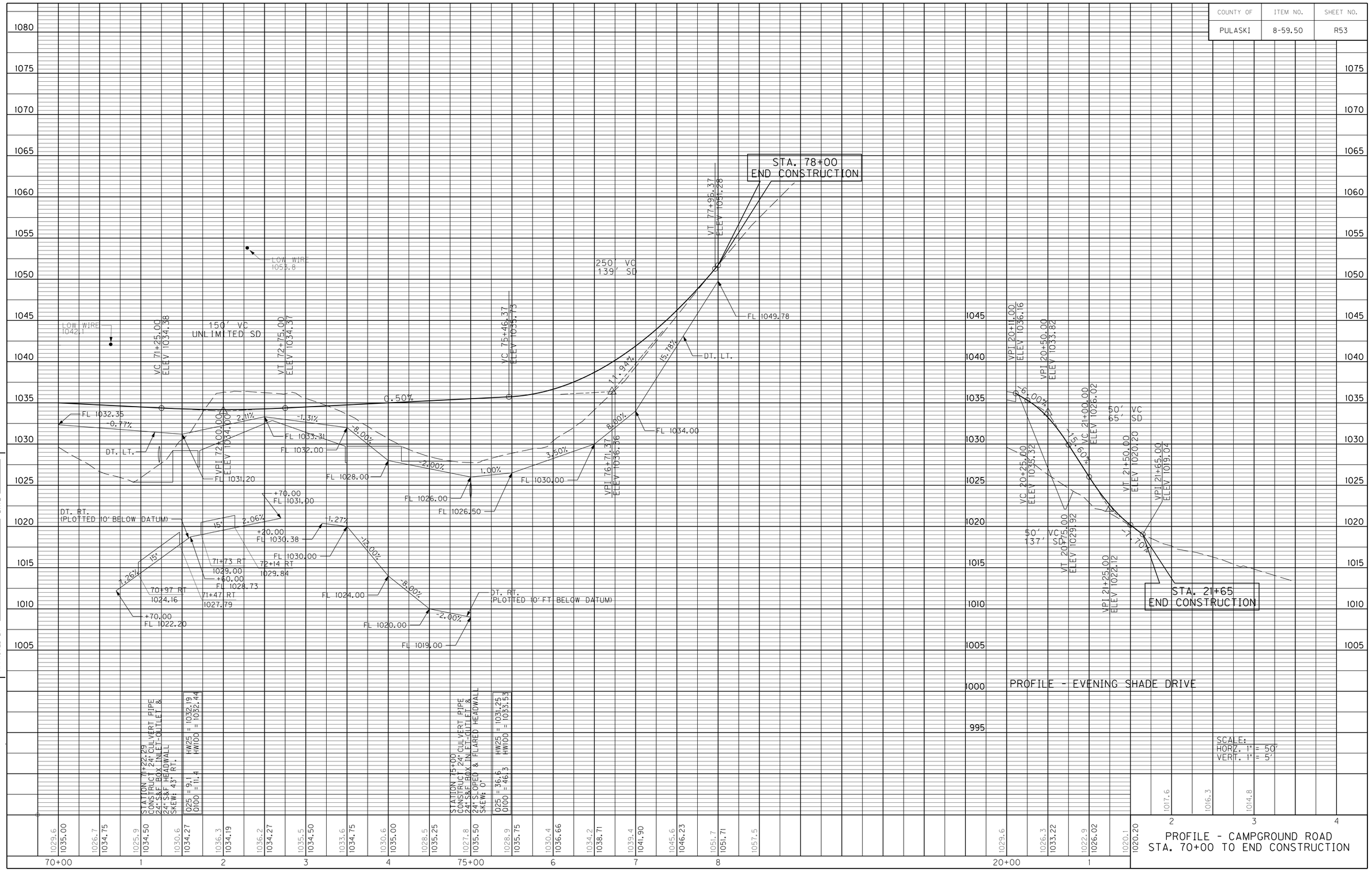
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R53



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CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: sp1
3/17/2014

JOB
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R54

DITCH CONSTRUCTION (LT SIDE ONLY)

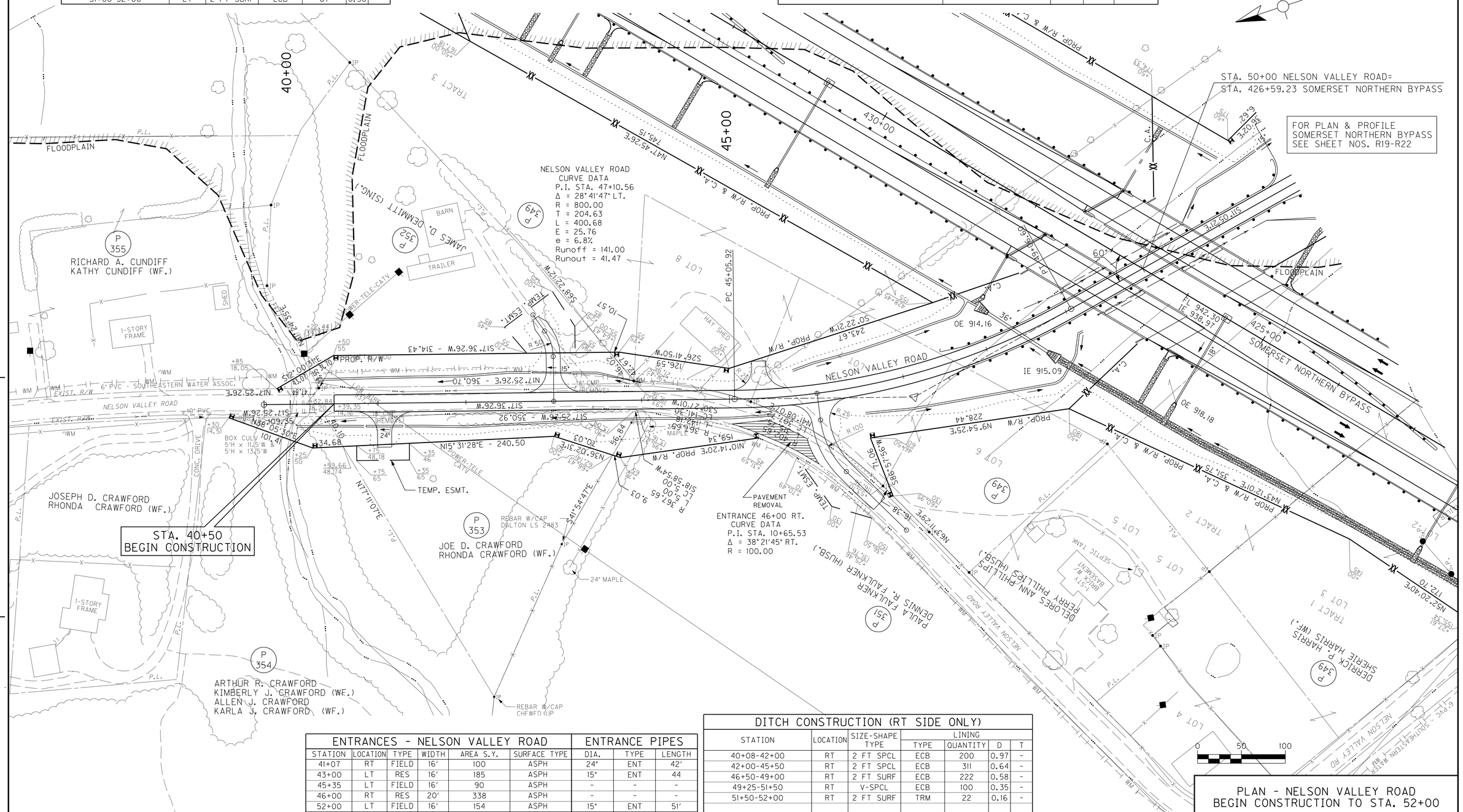
STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
40+30-42+50	LT	2 FT SURF	ECB	196	0.47	-
42+50-44+00	LT	2 FT SPCL	ECB	47	0.24	-
44+00-45+00	LT	NORMAL	ECB	44	0.32	-
45+75-48+00	LT	2 FT SURF	ECB	100	0.26	-
48+50-51+00	LT	V-SPCL	ECB	111	0.32	-
51+00-52+00	LT	2 FT SURF	ECB	67	0.50	-

CONSTRUCTION ITEMS - NELSON VALLEY ROAD

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
PAVE STRIPING-PERM PAINT-4 INCH	40+50 - 52+00	CL	LIN FT	2300.00
REMOVE PAVEMENT	45+02 - 45+92	RT	SQ YD	154.2
PAVE MRKG-THERMO STOP BAR-24"	46+00	RT	LIN FT	17.0
R/W MONUMENT TYPE 1	39+30 - 52+00	LT&RT	EACH	12
WITNESS POST	39+30 - 52+00	LT&RT	EACH	10

GUARDRAIL ITEMS - NELSON VALLEY ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL END TREATMENT TYPE 4A	47+50 - 47+87.50	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	47+87.50 - 51+90	LT	LIN FT	412.50
GUARDRAIL TERMINAL SECTION NO 1	51+90	LT	EACH	1
GUARDRAIL END TREATMENT TYPE 4A	47+50 - 47+87.50	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	47+87.50 - 51+62.50	RT	LIN FT	375
GUARDRAIL END TREATMENT TYPE 4A	51+62.50 - 52+00	RT	EACH	1



ENTRANCES - NELSON VALLEY ROAD

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	ENTRANCE PIPES		
						DIA.	TYPE	LENGTH
41+07	RT	FIELD	16'	100	ASPH	24"	ENT	42'
43+00	LT	RES	16'	185	ASPH	15"	ENT	44
45+35	LT	FIELD	16'	90	ASPH	-	-	-
46+00	RT	RES	20'	338	ASPH	-	-	-
52+00	LT	FIELD	16'	154	ASPH	15"	ENT	51'

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
40+08-42+00	RT	2 FT SPCL	ECB	200	0.97	-
42+00-45+50	RT	2 FT SPCL	ECB	311	0.64	-
46+50-49+00	RT	2 FT SURF	ECB	222	0.58	-
49+25-51+50	RT	V-SPCL	ECB	100	0.35	-
51+50-52+00	RT	2 FT SURF	TRM	22	0.16	-

PREPARED BY DATE
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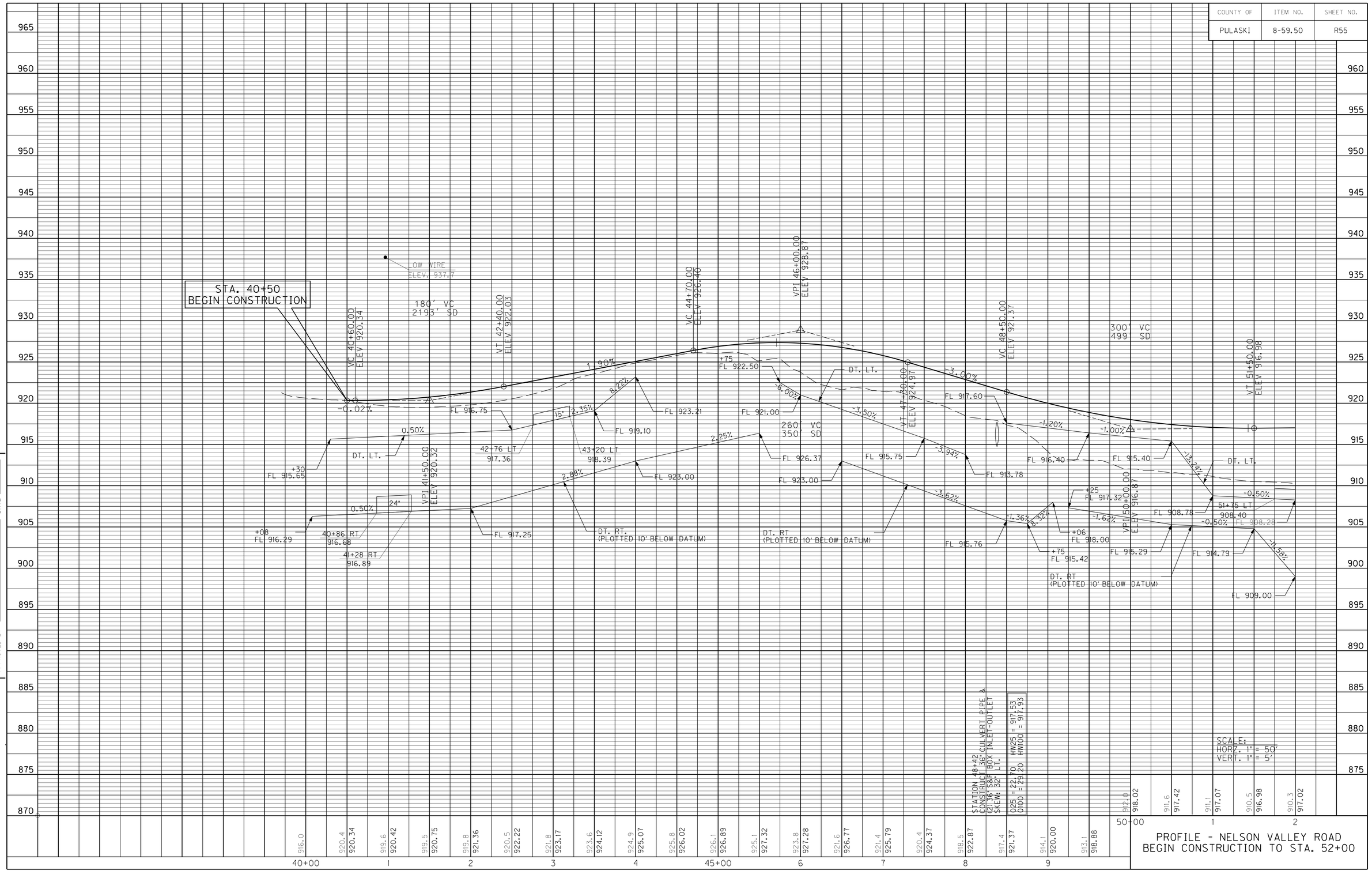
Cell Name: sp
3/17/2014

PLAN - NELSON VALLEY ROAD
BEGIN CONSTRUCTION TO STA. 52+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R55



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Cell Names: sp4
3/17/2014

JDQ
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R56

DITCH CONSTRUCTION (LT SIDE ONLY)

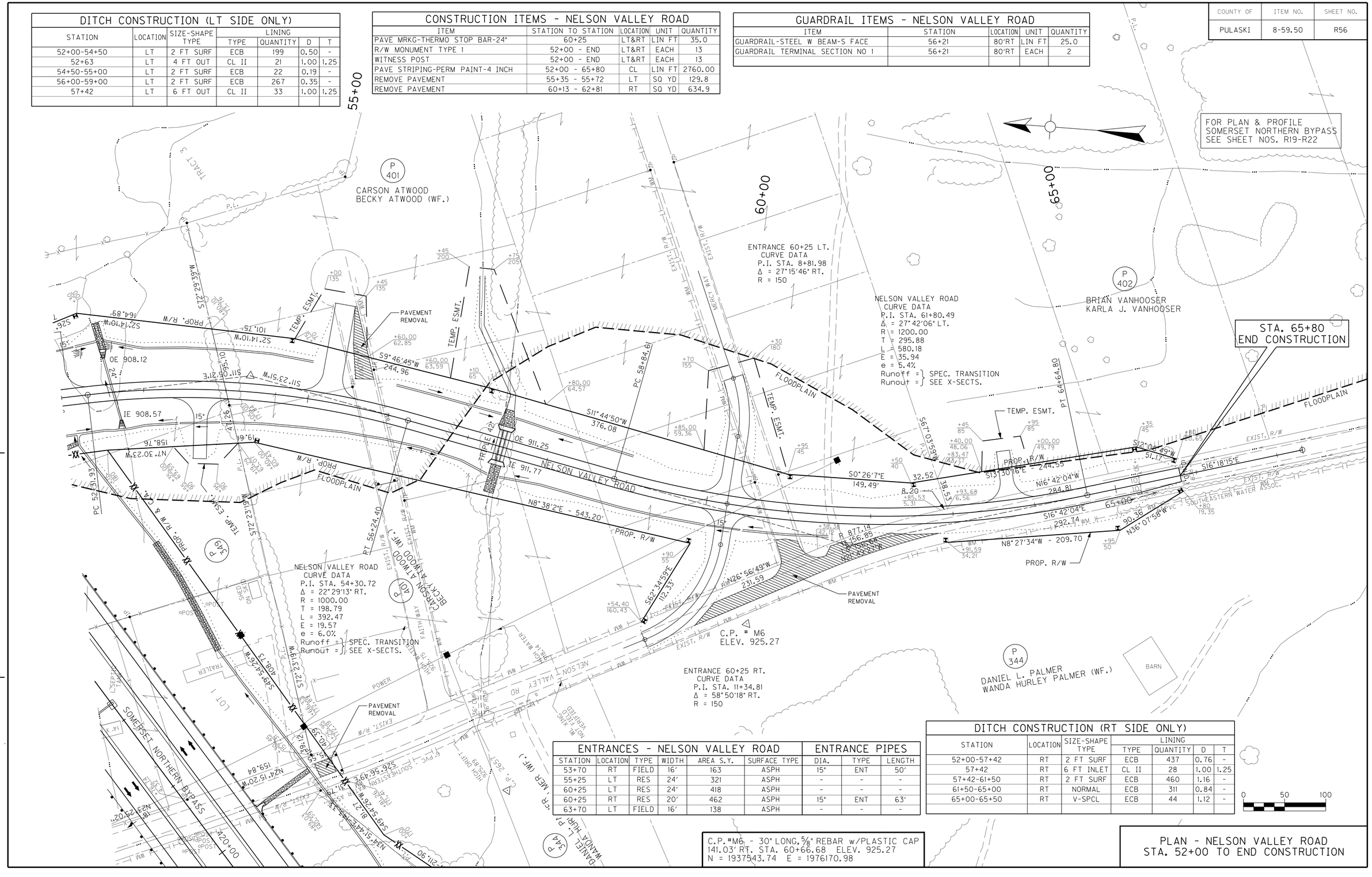
STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
52+00-54+50	LT	2 FT SURF	ECB	199	0.50	-
52+63	LT	4 FT OUT	CL II	21	1.00	1.25
54+50-55+00	LT	2 FT SURF	ECB	22	0.19	-
56+00-59+00	LT	2 FT SURF	ECB	267	0.35	-
57+42	LT	6 FT OUT	CL II	33	1.00	1.25

CONSTRUCTION ITEMS - NELSON VALLEY ROAD

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
PAVE MRKG-THERMO STOP BAR-24"	60+25	LT&RT	LIN FT	35.0
R/W MONUMENT TYPE 1	52+00 - END	LT&RT	EACH	13
WITNESS POST	52+00 - END	LT&RT	EACH	13
PAVE STRIPING-PERM PAINT-4 INCH	52+00 - 65+80	CL	LIN FT	2760.00
REMOVE PAVEMENT	55+35 - 55+72	LT	SQ YD	129.8
REMOVE PAVEMENT	60+13 - 62+81	RT	SQ YD	634.9

GUARDRAIL ITEMS - NELSON VALLEY ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL-STEEL W BEAM-S FACE	56+21	80'RT	LIN FT	25.0
GUARDRAIL TERMINAL SECTION NO 1	56+21	80'RT	EACH	2



ENTRANCES - NELSON VALLEY ROAD

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	ENTRANCE PIPES		
						DIA.	TYPE	LENGTH
53+70	RT	FIELD	16'	163	ASPH	15"	ENT	50'
55+25	LT	RES	24'	321	ASPH	-	-	-
60+25	LT	RES	24'	418	ASPH	-	-	-
60+25	RT	RES	20'	462	ASPH	15"	ENT	63'
63+70	LT	FIELD	16'	138	ASPH	-	-	-

C.P. #M6 - 30" LONG. 5/8" REBAR w/PLASTIC CAP
141.03' RT. STA. 60+66.68 ELEV. 925.27
N = 1937543.74 E = 1976170.98

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
52+00-57+42	RT	2 FT SURF	ECB	437	0.76	-
57+42	RT	6 FT INLET	CL II	28	1.00	1.25
57+42-61+50	RT	2 FT SURF	ECB	460	1.16	-
61+50-65+00	RT	NORMAL	ECB	311	0.84	-
65+00-65+50	RT	V-SPCL	ECB	44	1.12	-

0 50 100

PLAN - NELSON VALLEY ROAD
STA. 52+00 TO END CONSTRUCTION

PREPARED BY DATE
CHECKED BY DATE
APPROVED BY DATE

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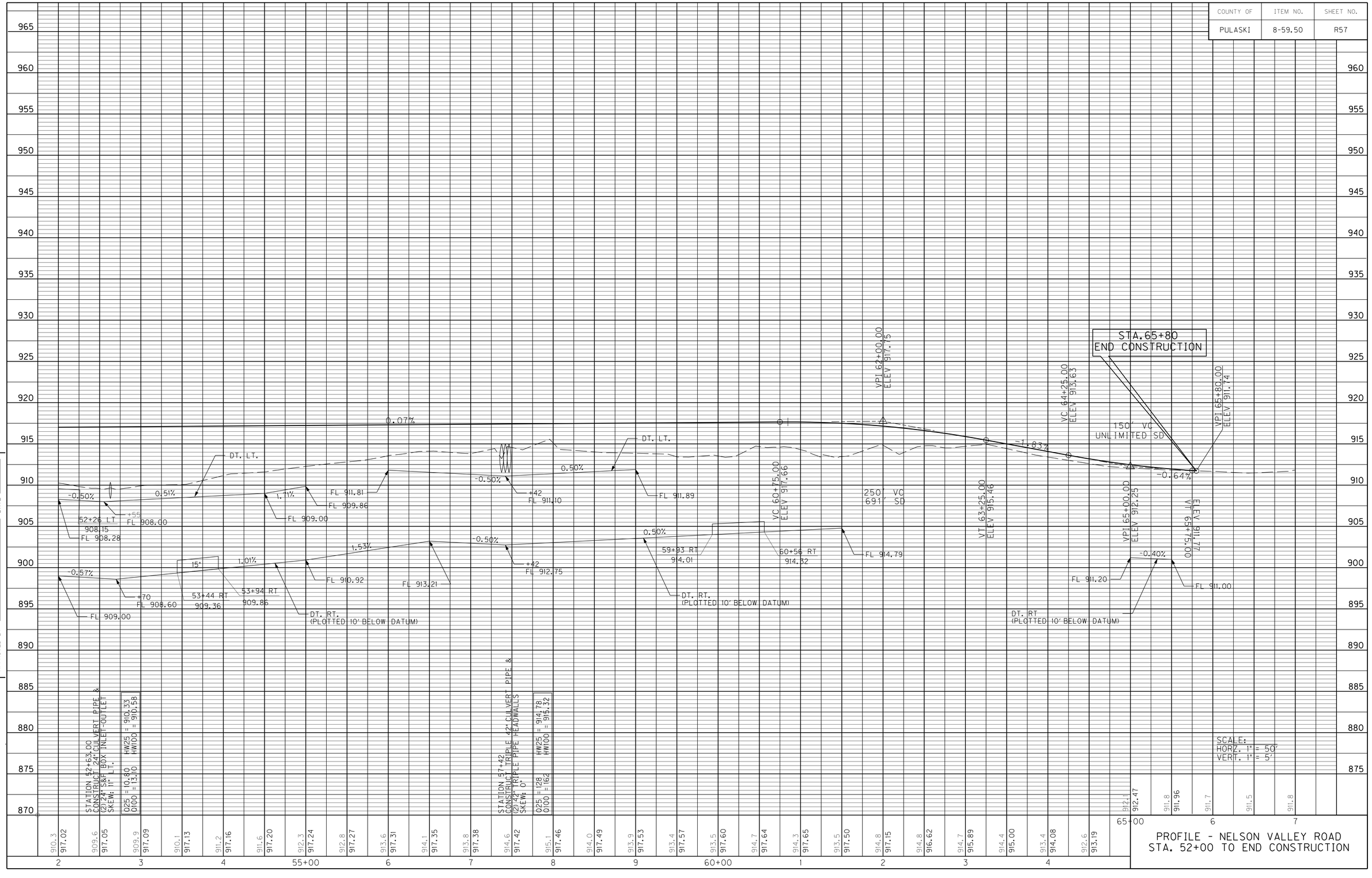
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R57



PROFILE - NELSON VALLEY ROAD
STA. 52+00 TO END CONSTRUCTION

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: spf
3/17/2014

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1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R58

DITCH CONSTRUCTION - OLD STILESVILLE ROAD

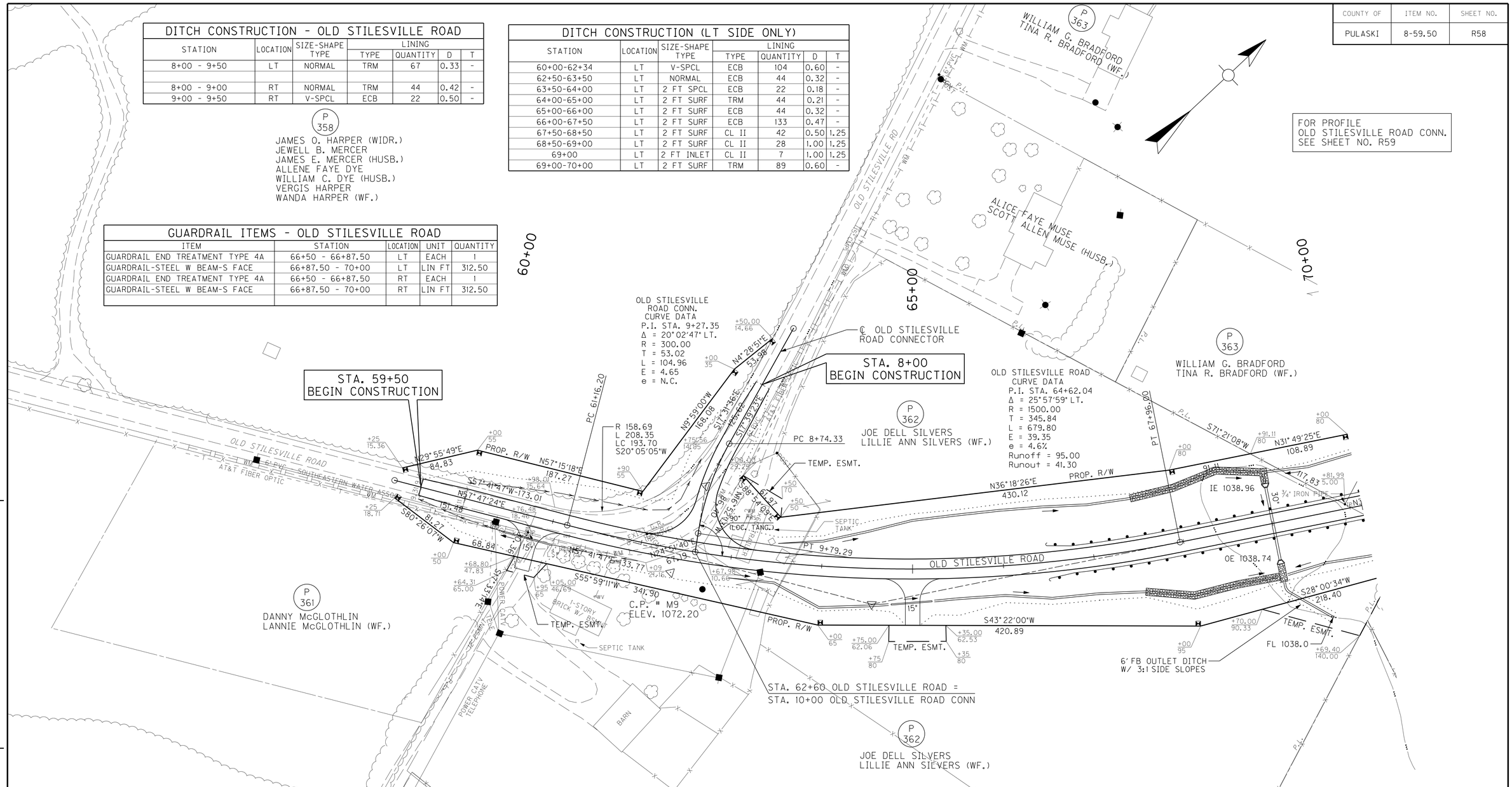
STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	D	T
8+00 - 9+50	LT	NORMAL	TRM	67	0.33	-
8+00 - 9+00	RT	NORMAL	TRM	44	0.42	-
9+00 - 9+50	RT	V-SPCL	ECB	22	0.50	-

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	D	T
60+00-62+34	LT	V-SPCL	ECB	104	0.60	-
62+50-63+50	LT	NORMAL	ECB	44	0.32	-
63+50-64+00	LT	2 FT SPCL	ECB	22	0.18	-
64+00-65+00	LT	2 FT SURF	TRM	44	0.21	-
65+00-66+00	LT	2 FT SURF	ECB	44	0.32	-
66+00-67+50	LT	2 FT SURF	ECB	133	0.47	-
67+50-68+50	LT	2 FT SURF	CL II	42	0.50	1.25
68+50-69+00	LT	2 FT SURF	CL II	28	1.00	1.25
69+00	LT	2 FT INLET	CL II	7	1.00	1.25
69+00-70+00	LT	2 FT SURF	TRM	89	0.60	-

GUARDRAIL ITEMS - OLD STILESVILLE ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL END TREATMENT TYPE 4A	66+50 - 66+87.50	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	66+87.50 - 70+00	LT	LIN FT	312.50
GUARDRAIL END TREATMENT TYPE 4A	66+50 - 66+87.50	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	66+87.50 - 70+00	RT	LIN FT	312.50



DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	D	T
59+50-60+00	RT	V-SPCL	ECB	22	0.36	-
60+00-61+00	RT	NORMAL	ECB	22	0.31	-
61+00-62+00	RT	V-SPCL	ECB	42	0.34	-
62+00-63+00	RT	NORMAL	ECB	44	0.23	-
63+00-64+00	RT	2 FT SPCL	ECB	44	0.12	-
64+00-66+00	RT	2 FT SURF	ECB	134	0.47	-
66+00-67+50	RT	2 FT SURF	TRM	67	0.33	-
67+50-69+00	RT	2 FT SURF	CL II	52	0.50	1.25
69+00	RT	2 FT OUT	CL II	38	1.00	1.25
69+00-70+00	RT	2 FT SURF	ECB	44	0.45	-

ENTRANCES - OLD STILESVILLE ROAD / ENTRANCE PIPES

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	DIA.	TYPE	LENGTH
60+80	RT	RES	16'	117	ASPH	15"	ENT	56'
65+00	RT	FIELD	16'	119	ASPH	15"	ENT	49'

C.P. #M9 - 30", ⅝ REBAR w/ ALUM CAP
26.68' RT. STA. 62+37.23, OLD STILESVILLE ROAD
ELEV. 1072.20 N = 1940191.35 E = 1980086.09

CONSTRUCTION ITEMS - OLD STILESVILLE ROAD

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
PAVE STRIPING - PERM PAINT - 4 INCH	59+50 - 70+00	CL	LIN FT	2100.00
SEPTIC TANK TREATMENT	63+39	38'LT	EACH	1
PAVE MRKG-THERMO STOP BAR-24"	62+60	LT	LIN FT	28.5
R/W MONUMENT TYPE 1	59+25 - 70+00	LT&RT	EACH	13
WITNESS POST	59+25 - 70+00	LT&RT	EACH	10

PLAN - OLD STILESVILLE ROAD
BEGIN CONSTRUCTION TO STA. 70+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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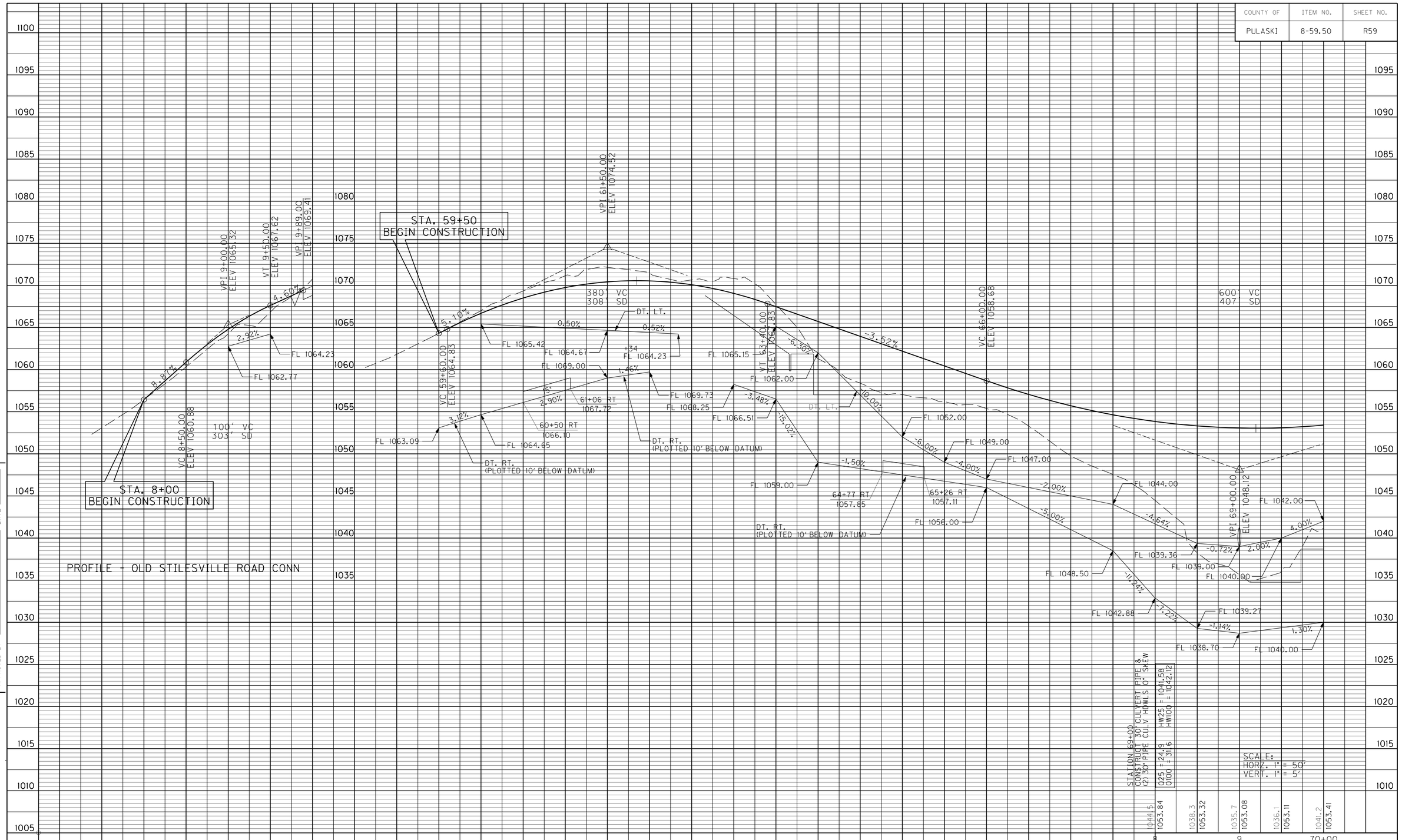
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R59



PROFILE - OLD STILESVILLE ROAD
BEGIN CONSTRUCTION TO STA. 70+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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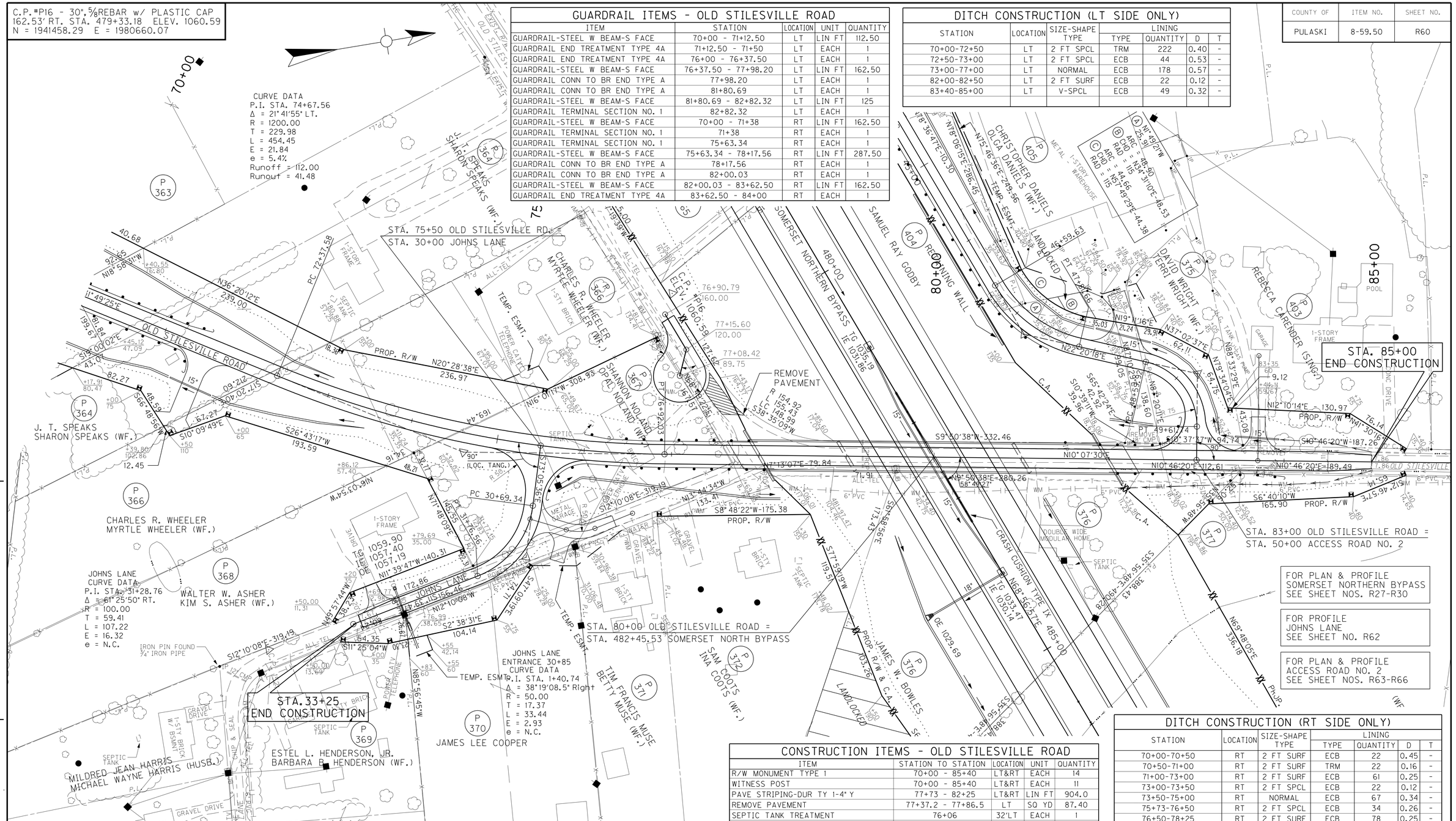
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R60

C.P. #P16 - 30", 5/8 REBAR w/ PLASTIC CAP
162.53' RT. STA. 479+33.18 ELEV. 1060.59
N = 1941458.29 E = 1980660.07



GUARDRAIL ITEMS - OLD STILESVILLE ROAD

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL-STEEL W BEAM-S FACE	70+00 - 71+12.50	LT	LIN FT	112.50
GUARDRAIL END TREATMENT TYPE 4A	71+12.50 - 71+50	LT	EACH	1
GUARDRAIL END TREATMENT TYPE 4A	76+00 - 76+37.50	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	76+37.50 - 77+98.20	LT	LIN FT	162.50
GUARDRAIL CONN TO BR END TYPE A	77+98.20	LT	EACH	1
GUARDRAIL CONN TO BR END TYPE A	81+80.69	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	81+80.69 - 82+82.32	LT	LIN FT	125
GUARDRAIL TERMINAL SECTION NO. 1	82+82.32	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	70+00 - 71+38	RT	LIN FT	162.50
GUARDRAIL TERMINAL SECTION NO. 1	71+38	RT	EACH	1
GUARDRAIL TERMINAL SECTION NO. 1	75+63.34	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	75+63.34 - 78+17.56	RT	LIN FT	287.50
GUARDRAIL CONN TO BR END TYPE A	78+17.56	RT	EACH	1
GUARDRAIL CONN TO BR END TYPE A	82+00.03	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	82+00.03 - 83+62.50	RT	LIN FT	162.50
GUARDRAIL END TREATMENT TYPE 4A	83+62.50 - 84+00	RT	EACH	1

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	LINING D	LINING T
70+00-72+50	LT	2 FT SPCL	TRM	222	0.40	-
72+50-73+00	LT	2 FT SPCL	ECB	44	0.53	-
73+00-77+00	LT	NORMAL	ECB	178	0.57	-
82+00-82+50	LT	2 FT SURF	ECB	22	0.12	-
83+40-85+00	LT	V-SPCL	ECB	49	0.32	-

DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	LINING D	LINING T
70+00-70+50	RT	2 FT SURF	ECB	22	0.45	-
70+50-71+00	RT	2 FT SURF	TRM	22	0.16	-
71+00-73+00	RT	2 FT SURF	ECB	61	0.25	-
73+00-73+50	RT	2 FT SPCL	ECB	22	0.12	-
73+50-75+00	RT	NORMAL	ECB	67	0.34	-
75+73-76+50	RT	2 FT SPCL	ECB	34	0.26	-
76+50-78+25	RT	2 FT SURF	ECB	78	0.25	-
82+10-85+00	RT	V-SPCL	ECB	129	0.56	-

CONSTRUCTION ITEMS - OLD STILESVILLE ROAD

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W MONUMENT TYPE 1	70+00 - 85+40	LT&RT	EACH	14
WITNESS POST	70+00 - 85+40	LT&RT	EACH	11
PAVE STRIPING-DUR TY 1-4" Y	77+73 - 82+25	LT&RT	LIN FT	904.0
REMOVE PAVEMENT	77+37.2 - 77+86.5	LT	SQ YD	87.40
SEPTIC TANK TREATMENT	76+06	32'LT	EACH	1
PAVE STRIPING-PERM PAINT-4 INCH	70+00 - 85+00	CL	LIN FT	2096.00
OBJECT MARKER, TYPE 2	STRUCTURE	LT$RT	EACH	2

CONSTRUCTION ITEMS - JOHNS LANE

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W MONUMENT TYPE 1	31+25 - 33+50	LT&RT	EACH	7
WITNESS POST	31+25 - 33+50	LT&RT	EACH	5
PAVE STRIPING-PERM PAINT-4 INCH	30+20 - 33+25	CL	LIN FT	610.00
PAVE MRKG-THERMO STOP BAR-24"	30+20	LT&RT	LIN FT	28.0

DITCH CONSTRUCTION - JOHNS LANE

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	LINING D	LINING T
30+50 - 32+50	RT	NORMAL	ECB	89	0.47	-

C.P. #P18 - 30", 5/8 REBAR w/ ALUM CAP
527.99' LT. STA. 32+22.43, JOHNS LANE
ELEV. 1031.04 N = 1941247.50 E = 1981468.32

ENTRANCES - OLD STILESVILLE ROAD / ENTRANCE PIPES

STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE	DIA.	TYPE	LENGTH
71+50	RT	FIELD	20'	254	ASPH	15"	ENT	62'
83+70	LT	RES	16'	99	ASPH	15"	ENT	54'
30+85	JOHN LT	RES	16'	237	ASPH	-	-	-
32+94.33	JOHN RT	RES	16'	55	ASPH	-	-	-

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3/17/2014

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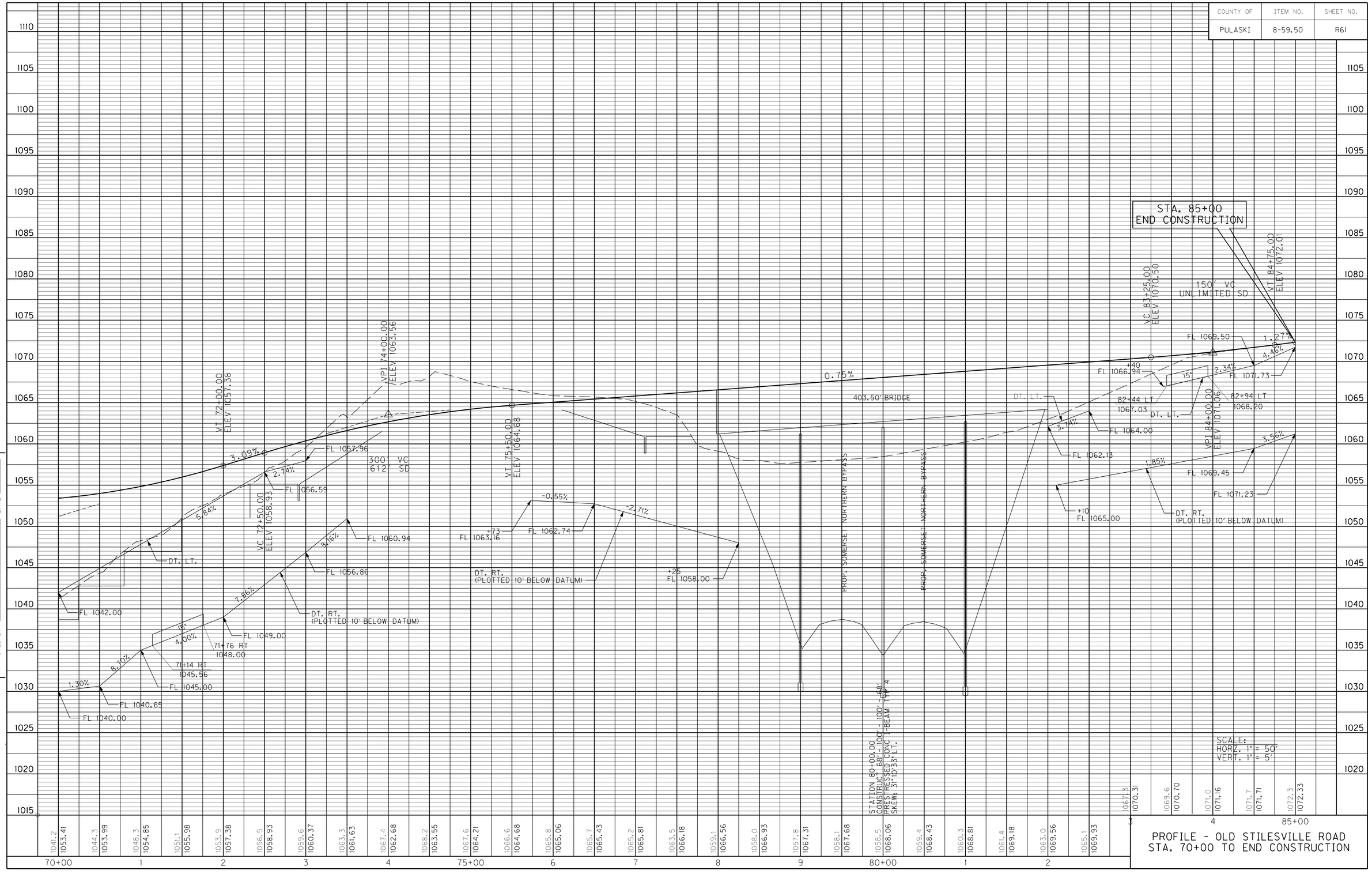
PLAN - OLD STILESVILLE ROAD
STA. 70+00 TO END CONSTRUCTION

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R61



PROFILE - OLD STILESVILLE ROAD
STA. 70+00 TO END CONSTRUCTION

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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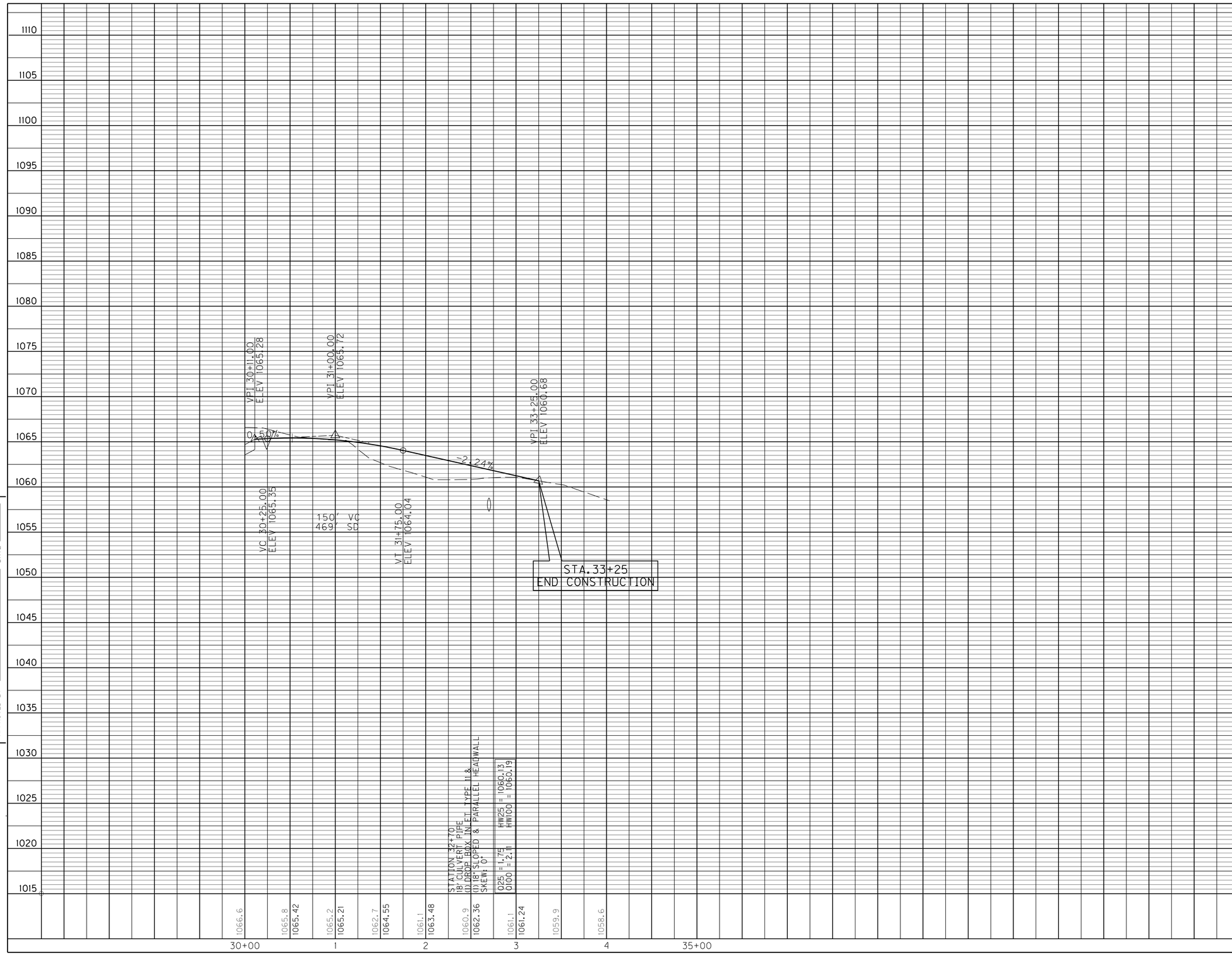
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R62



SCALE:
HORZ. 1" = 50'
VERT. 1" = 5'

PROFILE - JOHNS LANE

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1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R63

FOR PLAN & PROFILE
SOMERSET NORTHERN BYPASS
SEE SHEET NOS. R25-R28

GUARDRAIL ITEMS - ACCESS ROAD #2

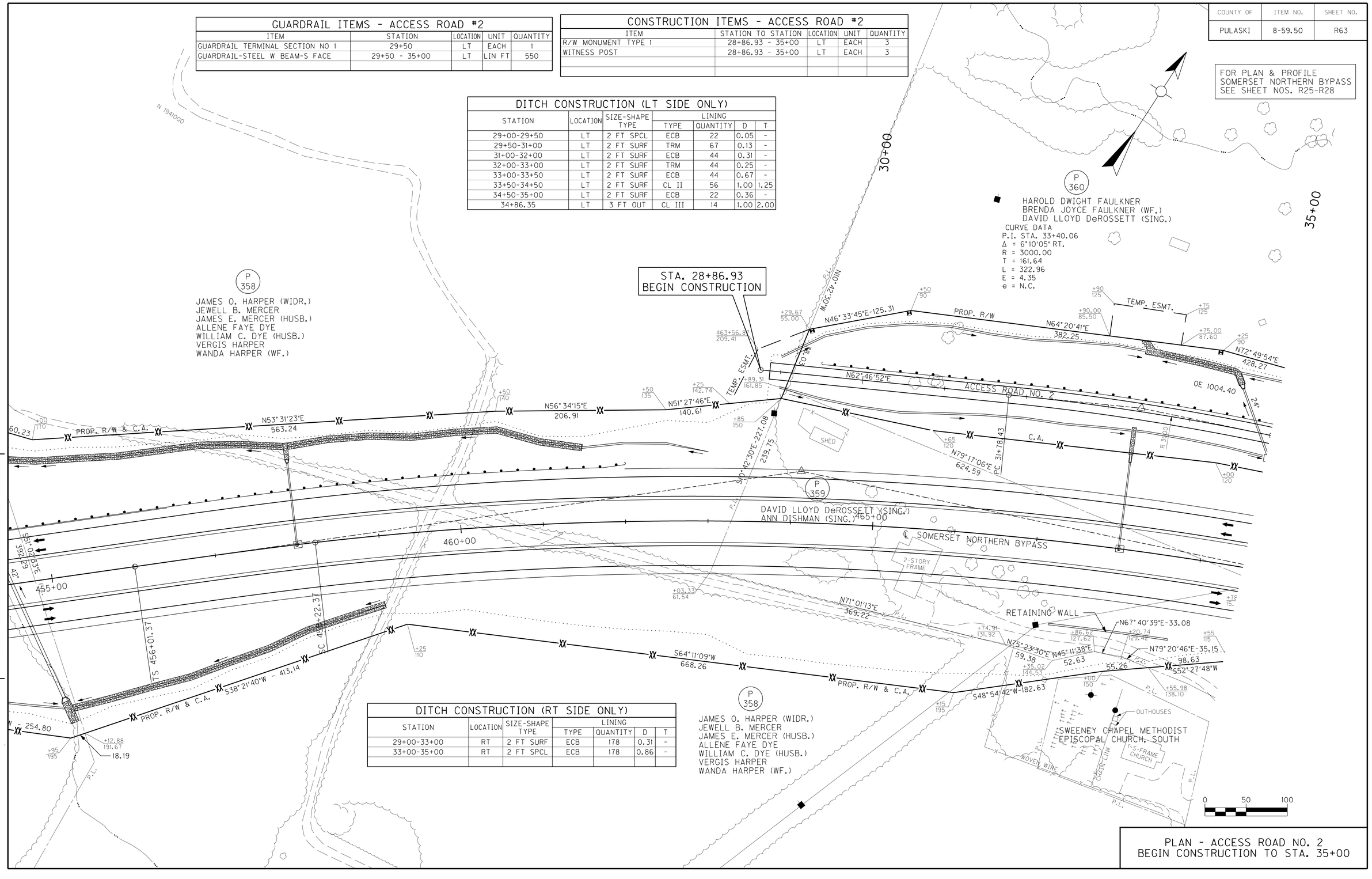
ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL TERMINAL SECTION NO 1	29+50	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	29+50 - 35+00	LT	LIN FT	550

CONSTRUCTION ITEMS - ACCESS ROAD #2

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W MONUMENT TYPE 1	28+86.93 - 35+00	LT	EACH	3
WITNESS POST	28+86.93 - 35+00	LT	EACH	3

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
29+00-29+50	LT	2 FT SPCL	ECB	22	0.05	-
29+50-31+00	LT	2 FT SURF	TRM	67	0.13	-
31+00-32+00	LT	2 FT SURF	ECB	44	0.31	-
32+00-33+00	LT	2 FT SURF	TRM	44	0.25	-
33+00-33+50	LT	2 FT SURF	ECB	44	0.67	-
33+50-34+50	LT	2 FT SURF	CL II	56	1.00	1.25
34+50-35+00	LT	2 FT SURF	ECB	22	0.36	-
34+86.35	LT	3 FT OUT	CL III	14	1.00	2.00



DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING			
			TYPE	QUANTITY	D	T
29+00-33+00	RT	2 FT SURF	ECB	178	0.31	-
33+00-35+00	RT	2 FT SPCL	ECB	178	0.86	-

PREPARED BY DATE
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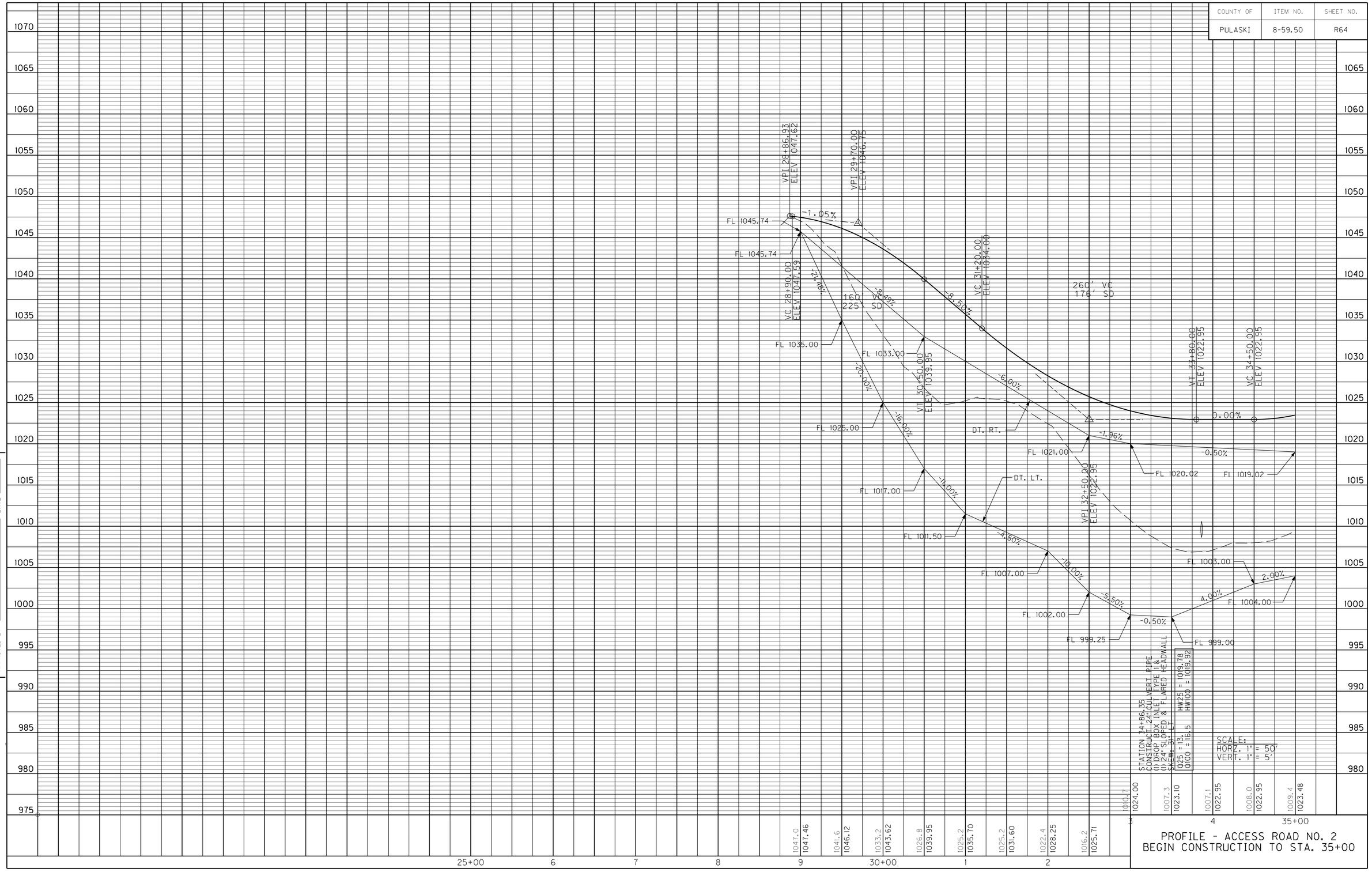
Cell Name: sp
3/17/2014

PLAN - ACCESS ROAD NO. 2
BEGIN CONSTRUCTION TO STA. 35+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R64



PROFILE - ACCESS ROAD NO. 2
BEGIN CONSTRUCTION TO STA. 35+00

PREPARED BY _____ DATE _____
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APPROVED BY _____ DATE _____

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3/17/2014

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FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R65

GUARDRAIL ITEMS - ACCESS ROAD #2

ITEM	STATION	LOCATION	UNIT	QUANTITY
GUARDRAIL-STEEL W BEAM-S FACE	35+00 - 37+40	LT	LIN FT	262.50
GUARDRAIL TERMINAL SECTION NO 1	37+40	LT	EACH	1
GUARDRAIL TERMINAL SECTION NO 1	37+60	LT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	37+60 - 41+00	LT	LIN FT	362.50
GUARDRAIL TERMINAL SECTION NO 1	41+00	LT	EACH	1
GUARDRAIL TERMINAL SECTION NO 1	43+00	RT	EACH	1
GUARDRAIL-STEEL W BEAM-S FACE	43+00 - 47+50	RT	LIN FT	450
GUARDRAIL TERMINAL SECTION NO 1	47+50	RT	EACH	1

DITCH CONSTRUCTION (LT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	D	T
35+00-36+00	LT	2 FT SURF	ECB	44	0.25	-
36+00-37+00	LT	2 FT SURF	TRM	44	0.10	-
37+00-37+25	LT	2 FT SPCL	TRM	11	0.05	-
37+75-38+50	LT	2 FT SPCL	ECB	33	0.26	-
38+50-39+50	LT	2 FT SURF	TRM	44	0.10	-
39+50-41+50	LT	3 FT SURF	CL III	200	1.00	2.00
39+91.70	LT	10'x37'	CL III	41		2.00
41+50-42+00	LT	2 FT SPCL	CL II	17	0.50	1.25
42+00-43+00	LT	2 FT SPCL	TRM	44	0.41	-
43+00-46+00	LT	2 FT SPCL	ECB	216	0.76	-
46+00-49+00	LT	2 FT SURF	ECB	267	0.65	-
49+00-49+71	LT	2 FT SPCL	ECB	32	0.29	-

ENTRANCES - ACCESS ROAD #2

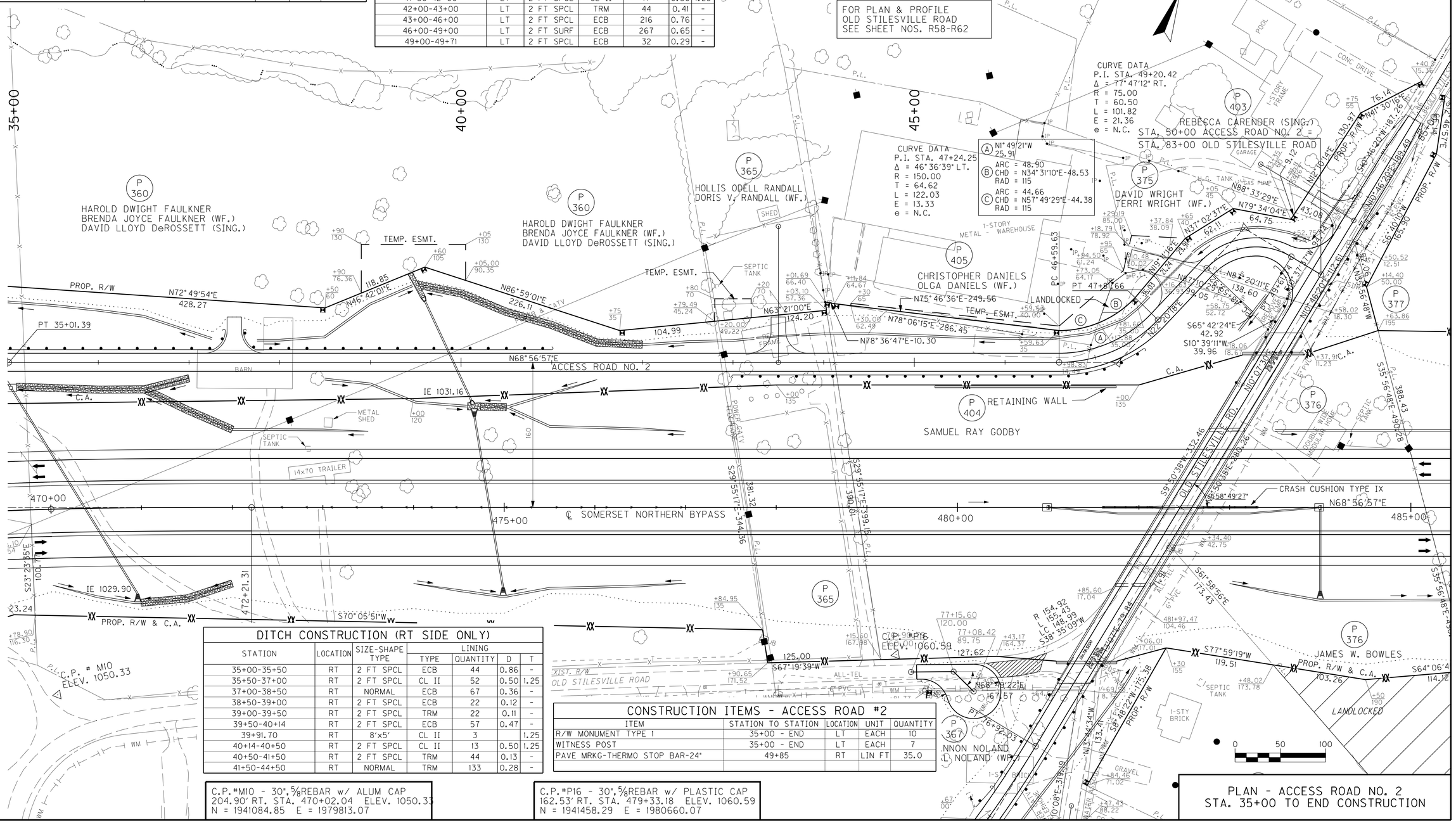
STATION	LOCATION	TYPE	WIDTH	AREA S.Y.	SURFACE TYPE
37+50	LT	FIELD	16'	101	ASPH
43+50	LT	FIELD	16'	101	ASPH
48+50	LT	COMM	20'	204	ASPH

ENTRANCE PIPES

DIA.	TYPE	LENGTH
-	-	-
18"	ENT	57'
15"	ENT	64'

FOR PLAN & PROFILE
SOMERSET NORTHERN BYPASS
SEE SHEET NOS. R25-R28

FOR PLAN & PROFILE
OLD STILESVILLE ROAD
SEE SHEET NOS. R58-R62



DITCH CONSTRUCTION (RT SIDE ONLY)

STATION	LOCATION	SIZE-SHAPE TYPE	LINING TYPE	LINING QUANTITY	D	T
35+00-35+50	RT	2 FT SPCL	ECB	44	0.86	-
35+50-37+00	RT	2 FT SPCL	CL II	52	0.50	1.25
37+00-38+50	RT	NORMAL	ECB	67	0.36	-
38+50-39+00	RT	2 FT SPCL	ECB	22	0.12	-
39+00-39+50	RT	2 FT SPCL	TRM	22	0.11	-
39+50-40+14	RT	2 FT SPCL	ECB	57	0.47	-
39+91.70	RT	8'x5'	CL II	3		1.25
40+14-40+50	RT	2 FT SPCL	CL II	13	0.50	1.25
40+50-41+50	RT	2 FT SPCL	TRM	44	0.13	-
41+50-44+50	RT	NORMAL	TRM	133	0.28	-

CONSTRUCTION ITEMS - ACCESS ROAD #2

ITEM	STATION TO STATION	LOCATION	UNIT	QUANTITY
R/W MONUMENT TYPE 1	35+00 - END	LT	EACH	10
WITNESS POST	35+00 - END	LT	EACH	7
PAVE MRKG-THERMO STOP BAR-24"	49+85	RT	LIN FT	35.0

C.P. #M10 - 30", 5/8 REBAR w/ ALUM CAP
204.90' RT. STA. 470+02.04 ELEV. 1050.33
N = 1941084.85 E = 1979813.07

C.P. #P16 - 30", 5/8 REBAR w/ PLASTIC CAP
162.53' RT. STA. 479+33.18 ELEV. 1060.59
N = 1941458.29 E = 1980660.07

PLAN - ACCESS ROAD NO. 2
STA. 35+00 TO END CONSTRUCTION

PREPARED BY DATE
CHECKED BY DATE
APPROVED BY DATE

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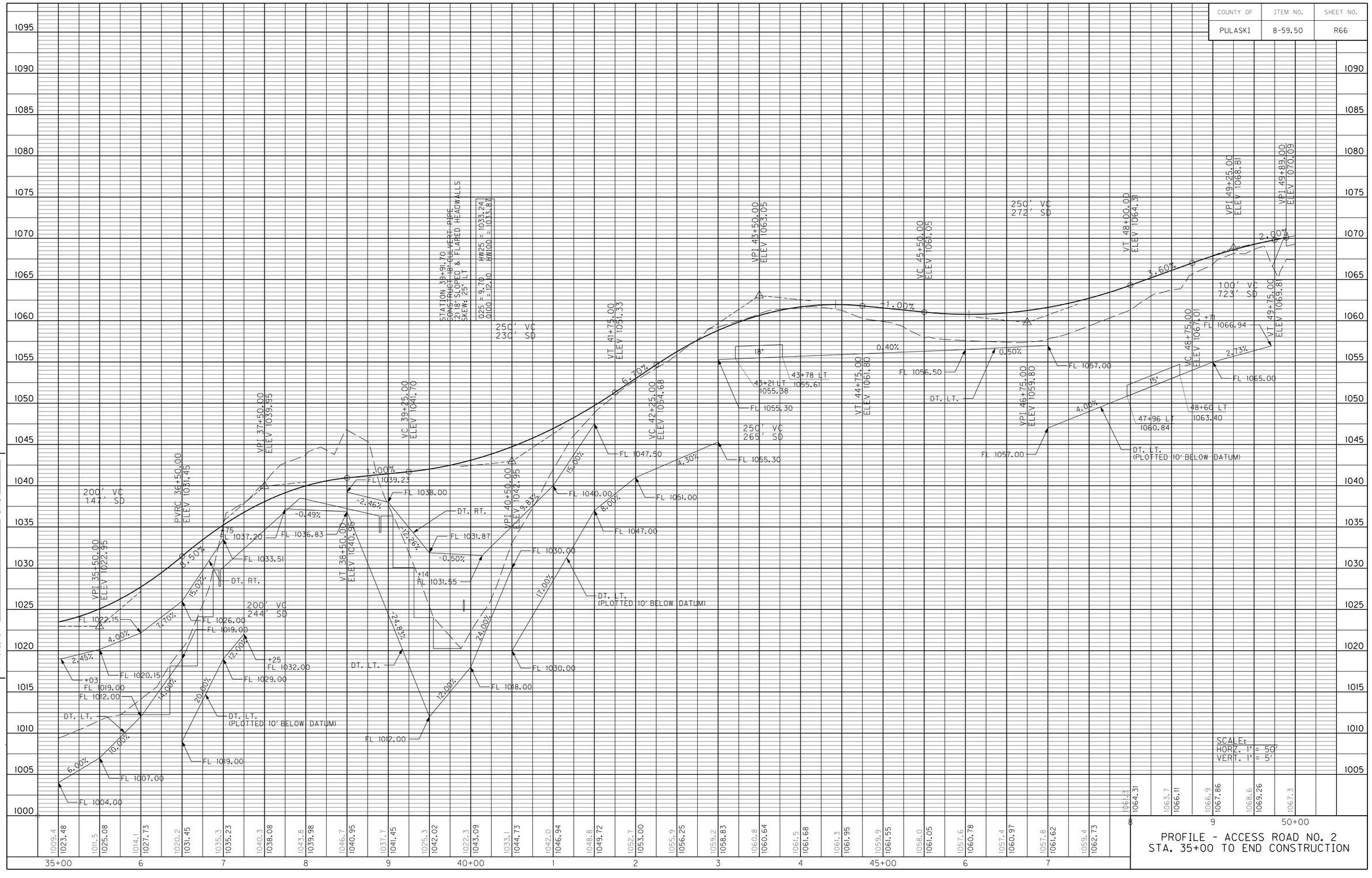
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R66



PROFILE - ACCESS ROAD NO. 2
STA. 35+00 TO END CONSTRUCTION

PREPARED BY DATE
CHECKED BY DATE
APPROVED BY DATE

...\plandgns\R06600PF.dgn
Cell Name: spf
3/17/2014

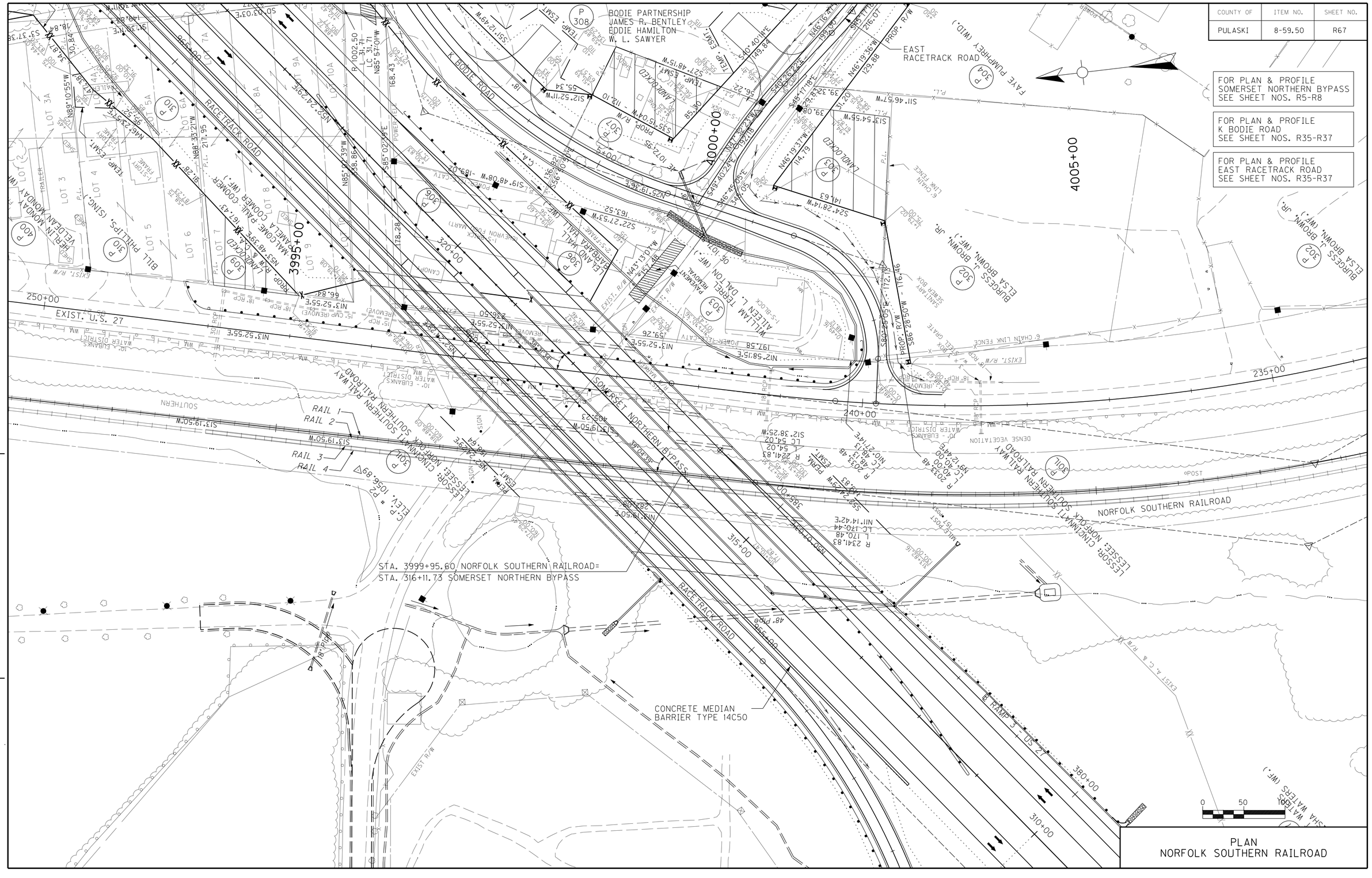
JDQ
1-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R67

FOR PLAN & PROFILE
SOMERSET NORTHERN BYPASS
SEE SHEET NOS. R5-R8

FOR PLAN & PROFILE
K BODIE ROAD
SEE SHEET NOS. R35-R37

FOR PLAN & PROFILE
EAST RACETRACK ROAD
SEE SHEET NOS. R35-R37

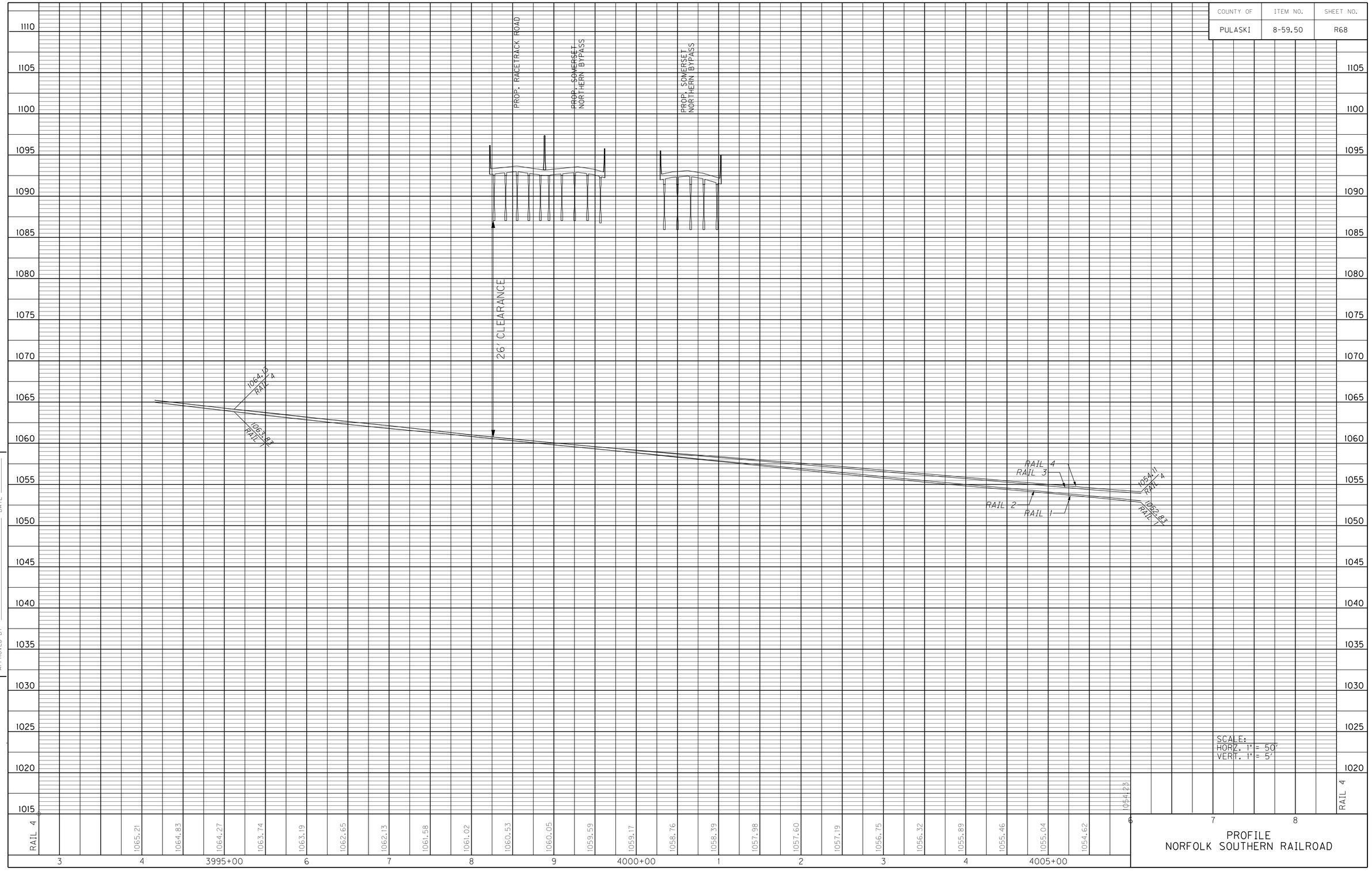


PLAN
NORFOLK SOUTHERN RAILROAD

		DATE
PREPARED BY	JDQ	3/17/2014
CHECKED BY	JDQ	3/17/2014
APPROVED BY		

..\plandgns\R06700PL.dgn
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R68



PROFILE
NORFOLK SOUTHERN RAILROAD

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

...\plandgns\R06800PF.dgn
Cell Name: sbf
3/17/2014

JDQ
L-92
FORM NO. 4

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R69

RIGHT OF WAY SUMMARY

PARCEL NO.	NAME	TOTAL AREA OF TRACT		PERMANENT R/W ACQUIRED		EASEMENTS		AREA SEVERED				EXCESS PURCHASED		PORTION REMAINING		SEWER SYSTEM TYPE	SEWER SYSTEM AFFECTED BY PROJECT		BUILDINGS ACQUIRED NUMBER				HAZARDOUS WASTE	REMARKS
						PERMANENT	TEMPORARY	LEFT		RIGHT														
		ACRES	SQ. FT.	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.		YES	NO	C	R	F	S		
301L	LESSOR: CINCINNATI SOUTHERN RAILWAY LESSEE: NORFOLK SOUTHERN RAILROAD					45641										5								
302	BURGESS J. BROWN, JR. ELSA BROWN (WF.)	11.41		0.10						11.31				11.31		1		X						D. B. 479 PG. 211 (2)
303	WILLIAM TERREL AILEEN L. DALTON (WF.)	1.42		1.16						0.26 L.L.				0.26		1	X		1					D. B. 690 PG. 509 (2)
303S	LAMAR ADVERTISING																							RELOCATION ONLY
304	FAYE PUMPHREY (WID.)	4.8		0.13						4.67				4.67		1		X						D. B. 247 PG. 228 D. B. 406 PG. 646 (2)
305	KATHY HAWK JERRY HAWK (HUSB.)	1.01		0.01				1.00						1.00		1		X						D. B. 421 PG. 487
306	LELAND HALL BARBARA HALL (WF.)	1.07		1.07										0.00		1	X		3				X	D. B. 382 PG. 471 D. B. 403 PG. 40 (1)
307	SCOTT WATERS ALISHA WATERS (WF.)		34135		25077		9058				9058 L.L.				9058	1	X			2		5		D. B. 685 PG. 238 (1)
308	BODIE PARTNERSHIP JAMES R. BENTLEY EDDIE HAMILTON W. L. SAWYER	7.72		1.27			28476			6.45				6.45		1		X						D. B. 652 PG. 390
309	MALCOME PAUL COOMER PAMELA COOMER (WF.)	1.44		1.31								0.13		0.00		5						1		D. B. 646 PG. 24 PLAT BK. 3 PG. 19 (1)
310	BILL PHILLIPS (SING.)	1.05		0.43			1076	0.62						0.62		1		X		1				D. B. 601 PG. 51 PLAT BK. 3 PG. 19 (1)
311	RONALD HELLARD MARY F. HELLARD (WF.)	2.68		0.81				0.67		1.20				1.87		1		X						D. B. 350 PG. 269 D. B. 663 PG. 4 (1) D. B. 525 PG. 178 PLAT BK. 3 PG. 6
312	B & B LEASING WAYNE ELDRIDGE SUSAN DUGGER	10.01		9.93								0.08		0.00		1	x		1					D. B. 491 PG. 599 D. B. 583 PG. 54 (1)
313	VALLEY WAREHOUSE & STORAGE, INC.	7.43		3.18				4.25						4.25		1	X		1					D. B. 432 PG. 3 D. B. 583 PG. 52
314	ZYNDALL HASTE AMY HASTE (WF.)	5.03		0.52			1583	4.51						4.51		5								D. B. 563 PG. 564 D. B. 581 PG. 474
315	NOEL. G. BURTON SANDRA L. BURTON	4.94		1.43			11669			3.51				3.51		1	X				2			D. B. 631 PG. 352
316	SYLVINIA MAE CORDER JACK CORDER (HUSB.)	1.90		0.99			608	0.91						0.91		1		X			1	1		D. B. 584 PG. 30 PLAT BK 1 PG. 24 W. B. 34 PG. 210
317	CONLEY C. BESHEARS, TRUST SHARON K. BESHEARS, TRUSTEE		42277		42277										0	1	X			1		3		D. B. 577 PG. 426 PLAT BK 1 PG. 24 (1)
318	DALE G. MORTON MELODY L. MORTON (WF.)		20621		15796		4825				4825 L.L.				4825	1	X			1		1		D. B. 737 PG. 64 (1)
319	MARION SHEPHERD MARY CATHERN SHEPHERD (WF.)		21482		21482									0.00		1	X			1		2		D. B. 290 PG. 446 PLAT BK. 1 PG. 24 (1)
320	CAMP GROUND BAPTIST CHURCH	2.43		0.05				2.38						2.38		1		X						D. B. 80 PG. 634 D. B. 325 PG. 448 D. B. 160 PG. 50 D. B. 397 PG. 542 D. B. 213 PG. 20 COM. D. B. 9 PG. 201 D. B. 214 PG. 202 (1)
321	OPAL VAUGHT WITHERS IRA L. WITHERS (HUSB.)	8.74		0.56			3462			8.18				8.18		1		X					X	D. B. 237 PG. 316 D. B. 583 PG. 264 (2)
322	KIMBERLY HURT PHILLIPS (SING.) JEANNE SUTTON DWIGHT SUTTON (HUSB.) DONALD GENE HURT, JR. KIMBERLY HURT (WF.)	75.50		15.72			16062	59.78						59.78		5								D. B. 605 PG. 49 D. B. 605 PG. 51
323	KIMBERLY HURT PHILLIPS (SING.)		21344		4115		1043		17229						17229	1		X						D. B. 605 PG. 41 D. B. 605 PG. 46 D. B. 605 PG. 43
324	ARVEL DALE MERRICK ENZA MERRICK (WF.)	1.50		0.31			2950			1.19				1.19		1		X	1					D. B. 649 PG. 381
325	CALVERY PENTECOSTAL CHURCH OF SOMERSET		19558		19558										0.00	1	X		1	1				D. B. 573 PG. 250 (1)

NOTE: PERMANENT R/W ACQUIRED + PERMANENT EASEMENT + AREA SEVERED = TOTAL AREA OF TRACT.

(1) TOTAL AREA OF TRACT CALCULATED.

(2) TOTAL AREA OF TRACT FROM P. V. A. OFFICE RECORDS

SOMERSET NORTHERN BYPASS - INTERSTATE 66
IS A FULLY CONTROLLED ACCESS HIGHWAY

TYPE SEWER SYSTEM
1. PRIVATE - INDIVIDUAL
2. PRIVATE - MULTI PARTY
3. PUBLIC
4. NONE
5. NOT APPLICABLE

BUILDINGS ACQUIRED CODE
C - COMMERICAL
R - RESIDENTIAL
F - FARM
S - STORAGE

HAZARDOUS WASTE
UST - UNDERGROUND STORAGE TANK

RIGHT OF WAY SUMMARY SHEET

PREPARED BY JDQ DATE 3/17/2014
CHECKED BY JDQ DATE 3/17/2014
APPROVED BY DATE

...\plandgns\R06900RW.dgn
Cell Name: sr ws
3/17/2014

JDQ
1-92
FORM NO. 7

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R70

RIGHT OF WAY SUMMARY

PARCEL NO.	NAME	TOTAL AREA OF TRACT		PERMANENT R/W ACQUIRED		EASEMENTS		AREA SEVERED				EXCESS PURCHASED		PORTION REMAINING		SEWER SYSTEM TYPE	SEWER SYSTEM AFFECTED BY PROJECT		BUILDINGS ACQUIRED NUMBER				HAZARDOUS WASTE	REMARKS
						PERMANENT	TEMPORARY	LEFT		RIGHT														
		ACRES	SQ. FT.	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.		YES	NO	C	R	F	S		
326	JAMES W. JOHNSON	1.83		0.06			2026			1.77				1.77		1		X						D. B. 597 PG. 295 D. B. 380 PG. 657 (1)
327	SHARON K. BESHEARS	2.14		2.14										0.00		1	X			1	2	1		D. B. 494 PG. 622 PLAT BK. 1 PG. 50 (1)
328	DOROTHY WILSON (WID.)	3.92		1.86			4724			2.06				2.06		1	X			2	1	2		D. B. 302 PG. 259 D. B. 473 PG. 182 D. B. 362 PG. 151 D. B. 477 PG. 502 (1)
329	EDWARD JAMES RAPE SANDRA H. RAPE (WF.)	5.21		0.97			1843	4.24						4.24		1	X			2		1		D. B. 569 PG. 633 D.B. 682 PG.324 PLAT CAB. A SL. 14-1 (1)
330	LOWELL HUNLEY JO ANN HUNLEY (WF.)	2.10		0.13				1.97						1.97		1		X						D. B. 389 PG. 344 PLAT BK. 1 PG. 29 (2)
331	LOWELL HUNLEY JOANN HUNLEY (WF.).		20881		2706		1729		18175						18175	1		X						D. B. 751 PG. 150
332	WADE S. BURTON VIVIAN A. BURTON (WF.)		40744		3435				37309						37309	1		X						D. B. 596 PG. 640 D. B. 647 PG.365
333	CHARLES A. MEECE, JR.(SING.)	2.69		0.04						2.65				2.65		1		X						D. B. 608 PG. 552 PLAT CAB. A SL. 11-2 AFF. OF DES. D. B. 608 PG. 551 (2)
334	NOT USED																							
335	NOT USED																							
336	DAVID GODBY MELODIE GODBY (WF.)		5084		5084										0	5								D. B. 704 PG. 227 (1)
337	CHRISTOPHER LEE GODBY AS TRUSTEE OF THE CHRISTOPHER LEE GODBY TRUST	3.35		1.88			7080			1.47				1.47		1		X				1		D. B. 741 PG. 672 PLAT CAB. D SL. 128 D. B. 741 PG. 676 PLAT CAB. D SL. 60 (1)
338	JOHN C. PRATHER CLAUDETTE PRATHER (WF.)	1.04		1.04										0.00		1	X			1	1	1		D. B. 705 PG. 627 PLAT CAB. D SL. 34 (1)
339	SHANNON FRALEY KRISTI FRALEY (WF.)		22272		6410		2069				15861				15861	1		X						D. B. 746 PG. 682 PLAT CAB. D SL. 128
340	DAVID HOWARD GODBY MELODIE P. GODBY (WF.) CHRISTOPHER LEE GODBY JAMIE GODBY (WF.)	44.44		0.41						44.03				44.03		5								D. B. 665 PG. 476 PLAT CAB C SL. 787
341	DONALD GENE HURT MARY LYNN HURT (WF.)	55.00		12.44			2321	42.56						42.56		5					1			D. B. 201 PG. 265
342	CHARLES LEE BULLOCK SUE BULLOCK (WF.)	1.93		1.93										0.00		1	X					3		D. B. 512 PG. 428 (1)
343	CARL RAY SHOUN (SING.)	47.00		13.16				31.28		2.56				33.84 37.50		1 1		X X				1		D. B. 80 PG. 137 AFF. OF DES. D. B. 358 PG. 413 D. B. 358 PG. 414 W. B. 17 PG. 198 W. B. 26 PG. 566 DIST. CT. BK. 010 PG. 275 W. B. 35 PG. 9 (2)
344	DANIEL L. PALMER WANDA HURLEY PALMER (WF.)	40.22		2.72						37.50														D. B. 361 PG. 361 D. B. 423 PG. 401 D. B. 599 PG. 408 (1)
345	STONEBROOK DEVELOPMENT LLC.	66.00		2.69						63.31				63.31		5								D. B. 785 PG. 204 (2)
346	JAMES A. MOSS CORINE MOSS (WF.)	65.23		11.77			2163	49.54				3.92		49.54		4								D. B. 633 PG. 326 D. B. 633 PG. 349
347	JEAN HUBBLE		23054		23054										0	1	X			1		1		D. B 489 PG. 442 (1)
348	JEFFREY HUBBLE BAMBI HUBBLE (WF.)	2.92		2.92										0.00		1	X			1		1		D. B. 507 PG. 518 (1)
349	DERRICK P. HARRIS SHERIE HARRIS (WF.)	28.79		13.71			1318	6.41		8.67				15.08		1	X			1				D. B. 628 PG. 1 D. B. 628 PG. 4 D. B. 711 PG. 347 PLAT CAB. C. SL. 634
350	NOT USED																							
351	PAULA FAULKNER DENNIS R. FAULKNER (WF.)	78.64		0.11			1283			78.53				78.53		1		X						D. B. 603 PG. 297 D. B. 627 PG. 395

NOTE: PERMANENT R/W ACQUIRED + PERMANENT EASEMENT + AREA SEVERED = TOTAL AREA OF TRACT.

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SOMERSET NORTHERN BYPASS - INTERSTATE 66 IS A FULLY CONTROLLED ACCESS HIGHWAY

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1. PRIVATE - INDIVIDUAL
2. PRIVATE - MULTI PARTY
3. PUBLIC
4. NONE
5. NOT APPLICABLE

BUILDINGS ACQUIRED CODE
C - COMMERICAL
R - RESIDENTIAL
F - FARM
S - STORAGE

HAZARDOUS WASTE
UST - UNDERGROUND STORAGE TANK

RIGHT OF WAY SUMMARY SHEET

PREPARED BY JDO DATE 3/17/2014
CHECKED BY JDO DATE 3/17/2014
APPROVED BY DATE

..\plandgns\R070OORW.dgn
Cell Name:srws
3/17/2014

JDO
1-92
FORM NO. 7

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R71

RIGHT OF WAY SUMMARY

PARCEL NO.	NAME	TOTAL AREA OF TRACT		PERMANENT R/W ACQUIRED		EASEMENTS		AREA SEVERED				EXCESS PURCHASED		PORTION REMAINING		SEWER SYSTEM TYPE	SEWER SYSTEM AFFECTED BY PROJECT		BUILDINGS ACQUIRED NUMBER				HAZARDOUS WASTE	REMARKS
						PERMANENT	TEMPORARY	LEFT		RIGHT														
		ACRES	SQ. FT.	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.		YES	NO	C	R	F	S		
352	JAMES D. DEMMITT (SING.)	1.99		0.29			3625	1.70						1.70		1		X						D. B. 603 PG. 497
353	JOE D. CRAWFORD RHONDA CRAWFORD (WF.)	1.24		0.25			1075			0.99				0.99		5								D. B. 658 PG. 113
354	ARTHUR R. CRAWFORD KIMBERLY J. CRAWFORD (WF.) ALLEN J. CRAWFORD KARLA J. CRAWFORD (WF.)	60.00		0.06						59.94				59.94		1		X						D. B. 467 PG. 457 (2)
355	RICHARD A. CUNDIFF KATHY CUNDIFF (WF.)	2.25		0.01				2.24						2.24		1		X						D. B. 412 PG. 589 D. B. 476 PG. 417
356	BOBBY JOE CROW	12.25		0.80				11.45						11.45		5								D. B. 746 PG. 720
357	JOSEPH C. CRAWFORD EDNA M. CRAWFORD (WF.)	107.00		12.26						89.85		4.89		89.85		5								D. B. 283 PG. 482 D. B. 402. PG. 34
358	JAMES O. HARPER (WID'R.) JEWELL B. MERCER JAMES E. MERCER (HUSB.) ALLENE FAYE DYE WILLIAM C. DYE (HUSB.) VERGIS HARPER WANDA HARPER (WF.)	92.47		6.92			4165	55.92		29.63				85.55		5								D. B. 117 PG. 332 D. B. 139 PG. 530 W. B. 11 PG. 390 D. B. 610 PG. 367 D. B. 665 PG. 382 D. B. 677 PG. 601
359	DAVID LLOYD DeROSSETT (SING.) ANN DISHMAN (SING.)	2.81		2.72						0.09				0.09		1	X			1		1		D. B. 502 PG. 154
360	HAROLD DWIGHT FAULKNER BRENDA JOYCE FAULKNER (WF.) DAVID LLOYD DeROSSETT (SING.)	49.10		8.99			7590	38.96		1.15				40.11		1	X			1	1	1		D. B. 440 PG. 443 D. B. 479 PG. 674 (1)
361	DANNY McGLOTHLIN LANNIE McGLOTHLIN (WF.)	2.24		0.08						2.16				2.16		5								D.B. 698 PG. 318
362	JOE DELL SILVERS LILLIE ANN SILVERS (WF.)	14.46		2.57			6323	1.95		9.94				11.89		1	X			1		1		D. B. 371 PG. 347 D. B. 371 PG. 286 D. B. 396 PG. 356 (1)
363	WILLIAM G. BRADFORD TINA R. BRADFORD (WF.)	5.61		0.13				5.48						5.48		1		X						D. B. 540 PG. 161 (1)
364	J. T. SPEAKS SHARON SPEAKS (WF.)	3.00		0.71				1.96		0.33				2.29		1		X				1		D. B. 347 PG. 481 D. B. 439 PG. 207
365	HOLLIS ODELL RANDALL DORIS V. RANDALL (WF.)	2.41		1.10			916	1.31						1.31		1	X			1		2		D. B. 437 PG. 257
366	CHARLES R. WHEELER MYRTLE WHEELER (WF.)	3.00		0.67			711	1.10		1.23				2.33		1		X				1		D. B. 313 PG. 278
367	SHANNON NOLAND OPAL NOLAND (WF)	1.12		1.12										0.00		1	X			1		2		D. B. 636 PG. 595 D. B. 586 PG. 206
368	WALTER W. ASHER KIM S. ASHER (WF.)	1.61		0.09						1.52				1.52		1		X				1		D. B. 586 PG. 204
369	ESTEL L. HENDERSON, JR. BARBARA B. HENDERSON (WF.)	1.37		0.03				1.34						1.34		1		X						D. B. 358 PG.491 D. B. 582 PG. 499 (1)
370	JAMES LEE COOPER	1.63		0.11			979	1.52						1.52		1		X						D. B. 338 PG. 516 D. B. 482 PG. 652 (1)
371	TIM FRANCIS MUSE BETTY MUSE (WF.)	1.09					541			1.09				1.09		1		X						D. B. 681 PG. 672
372	SAM COOTS INA COOTS (WF.)	1.90		0.35						1.55				1.55		1		X						D. B. 353 PG. 294 (2)
373	NOT USED																							
374	NOT USED																							
375	DAVID WRIGHT TERRI WRIGHT (WF.)		22695		10526		978		12169						12169	5								D.B. 725 PG. 44 D.B.725 PG.226 (1) D.B. 725 PG. 236 PLAT CAB. D SL. 90
376	JAMES W. BOWLES	4.18		1.95								2.23		0.00		1	X			1				D. B. 313 PG. 104 (1)
377	WALLIS MORRIS RAMONA MORRIS (WF.)	12.33		5.34				3.61				3.38		3.61		1		X						D. B. 307 PG. 499
378	DALLAS M. CUMMINS LETTIE JANE CUMMINS (WF.)	6.50		0.11				6.39						6.39		1		X						D. B. 581 PG. 335 COMM. D. B. 16 PG. 465 (2)

NOTE: PERMANENT R/W ACQUIRED + PERMANENT EASEMENT + AREA SEVERED = TOTAL AREA OF TRACT.

(1) TOTAL AREA OF TRACT CALCULATED.

(2) TOTAL AREA OF TRACT FROM P. V. A. OFFICE RECORDS

SOMERSET NORTHERN BYPASS - INTERSTATE 66
IS A FULLY CONTROLLED ACCESS HIGHWAY

TYPE SEWER SYSTEM
1. PRIVATE - INDIVIDUAL
2. PRIVATE - MULTI PARTY
3. PUBLIC
4. NONE
5. NOT APPLICABLE

BUILDINGS ACQUIRED CODE
C - COMMERICAL
R - RESIDENTIAL
F - FARM
S - STORAGE

HAZARDOUS WASTE
UST - UNDERGROUND STORAGE TANK

RIGHT OF WAY SUMMARY SHEET

PREPARED BY JDQ DATE 3/17/2014
CHECKED BY JDQ DATE 3/17/2014
APPROVED BY DATE

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Cell Name: sr w s
3/17/2014

JDQ
1-92
FORM NO. 7

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R72

RIGHT OF WAY SUMMARY

PARCEL NO.	NAME	TOTAL AREA OF TRACT		PERMANENT R/W ACQUIRED		EASEMENTS		AREA SEVERED				EXCESS PURCHASED		PORTION REMAINING		SEWER SYSTEM TYPE	SEWER SYSTEM AFFECTED BY PROJECT		BUILDINGS ACQUIRED NUMBER				HAZARDOUS WASTE	REMARKS
						PERMANENT	TEMPORARY	LEFT		RIGHT														
		ACRES	SQ. FT.	ACRES	SQ. FT.	SQ. FT.	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.		YES	NO	C	R	F	S		
379	ELMER L. POTTS BEULAH C. POTTS (WF.)	8.00		2.77				2.41		2.82				5.23		1		X				5		D. B. 442 PG. 450 D. B. 565 PG. 467
380	HARRIS RAKESTRAW, III CONNIE RAKESTRAW (WF.)	63.66		21.72			8872	3.71		38.23				41.94		5								D. B. 697 PG. 403 PLAT CAB. C SL. 800
381	SUSAN W. ALDERDICE BEN B. ALDERDICE (HUSB.)	72.19		9.49			3738	62.70						62.70		1	X			1				D. B. 556 PG. 510 D. B. 627 PG. 400
382	MICHAEL L. WRIGHT ADIENE M. WRIGHT (WF.)	18.80		0.10						18.70				18.70		5								D. B. 646 PG. 647
383	LEE COFFEE TERRI COFFEE (WF.)	1.41		0.49			5783			0.92				0.92		1	X			1				D. B. 680 PG. 679 PLAT CAB. C SL. 761
384	GENE LOVELESS (MARRIED)	4.97		0.56			1062			4.41				4.41		1		X						D. B. 687 PG. 147 PLAT CAB. C SL. 761
385	CHARLES W. TAYLOR RUBY J. TAYLOR (WF.)	1.65		0.46			2046	1.19						1.19		1		X						D. B. 461 PG. 141
386	JAMES L. MARCUM WANDA MARCUM (WF.)	18.58		6.46			638			12.12				12.12		5								D. B. 675 PG. 169 D. B. 680 PG. 196 PLAT CAB. C SL.761
387	JAMES NOE LOIS NOE (WF.)	5.89		5.89										0.00		5								D. B. 674 PG. 366 PLAT CAB. C SL.761 (1)
388	DANNY STEVENS CHRISTY STEVENS (WF.)	2.53		2.53										0.00		1	X			2				D. B. 681 PG. 441 PLAT CAB. C SL. 761 (1)
389	SOUTHEASTERN WATER ASSOCIATION		871		871										0	5			1					D. B. 292 PG. 132 (1)
390	BRANCH TOOL, INC. JESSE REYNOLDS	33.13		0.32						32.81				32.81		5								D. B. 678 PG. 99 PLAT CAB. C SL. 761
391	EDNA CRAWFORD JOE CRAWFORD (HUSB.)	1.00		0.20						0.80				0.80		1		X						D. B. 480 PG. 584
392	WILLIENA HELTON CARROLL HELTON (HUSB.)	1.00		0.23						0.77				0.77		5								D. B. 360 PG. 360
393	BENNY DEAN HEWITT RITA FAYE HEWITT (WF.)	2.00		0.39			1164			1.61				1.61		1		X						D. B. 364 PG. 482 D. B. 386 PG. 171
394	KENNETH L. TAYLOR DONNA LYNN TAYLOR (WF.)	1.60		0.21			4236	1.39						1.39		1		X						D. B. 449 PG. 184 D. B. 514 PG. 278 (1)
395	DENNIS F. STEWART BRENDA STEWART (WF.) ELIZABETH A. STEWART	36.00		0.21						35.79				35.79		5								D. B. 658 PG. 514 W. B. 39 PG. 277
396	DENNIS STEWART BRENDA STEWART (WF.)	49.00		0.05				48.95						48.95		5								D. B. 491 PG. 316 W. B. 27 PG. 149 (1)
397	CARSON ACEY PEGGY ACEY (WF.)	22.59		4.76			1792			17.83				17.83		5								D. B. 684 PG. 212 PLAT CAB. C SL. 761
398	CHARLES MATTHEW FORD (SINGLE)	6.53		1.25			3667			5.28 L.L.				5.28		1	X			1				D. B. 692 PG. 69 PLAT CAB. D SL. 1
399	JAMES NOE LOIS NOE (WF.)	35.39		17.42			14603	0.07 L.L. 11.08		6.82 L.L.				17.97		5								D. B. 674 PG. 366 PLAT CAB. C SL. 761
400	HERLIN MONDAY VELDEAN MONDAY (WF.)		39192		290				38902						38902	1		X						D. B. 453 PG. 631 PLAT BK. 3 PG. 19 (1)
401	CARSON ATWOOD BECKY ATWOOD (WF.)	15.22		2.43			24648	10.15		2.64				12.79		5								D. B. 770 PG. 302 PLAT CAB. D SL. 204
402	BRAIN VANHOOSER KARLA J. VANHOOSER	7.51		0.19			1870	7.32						7.32		5								D. B. 770 PG. 367 PLAT CAB. D SL. 204
403	REBECCA CARENDER (SING.)	3.58		0.15				3.43						3.43		1		X						D. B. 749 PG. 477
404	SAMUEL RAY GODBY	3.08		3.05			1523	0.03 L.L.						0.03		5								D. B. 725 PG. 47
405	CHRISTOPHER DANIELS OLGA DANIELS (WF.)	1.91		0.11			3024	1.80						1.80		5								D. B. 740 PG. 486 PLAT CAB. D SL.90 PLAT CAB.D SL. 128
406	GODBY & GODBY PROPERTIES, LTD.		20217		5111						15106				15106	4		X						D. B. 731 PG. 644 (1)
501	HINKLE CONTRACTING CORPORATION HENRY HINKLE, PRESIDENT	40.00		10.50				29.14		0.36 L.L.				29.50										D. B. 803 PG. 260 (2)

NOTE: PERMANENT R/W ACQUIRED + PERMANENT EASEMENT + AREA SEVERED = TOTAL AREA OF TRACT.

(1) TOTAL AREA OF TRACT CALCULATED.

(2) TOTAL AREA OF TRACT FROM P. V. A. OFFICE RECORDS

SOMERSET NORTHERN BYPASS - INTERSTATE 66
IS A FULLY CONTROLLED ACCESS HIGHWAY

TYPE SEWER SYSTEM
1. PRIVATE - INDIVIDUAL
2. PRIVATE - MULTI PARTY
3. PUBLIC
4. NONE
5. NOT APPLICABLE

BUILDINGS ACQUIRED CODE
C - COMMERICAL
R - RESIDENTIAL
F - FARM
S - STORAGE

HAZARDOUS WASTE
UST - UNDERGROUND STORAGE TANK

RIGHT OF WAY SUMMARY SHEET

PREPARED BY JDQ DATE 3/17/2014
CHECKED BY JDQ DATE 3/17/2014
APPROVED BY DATE

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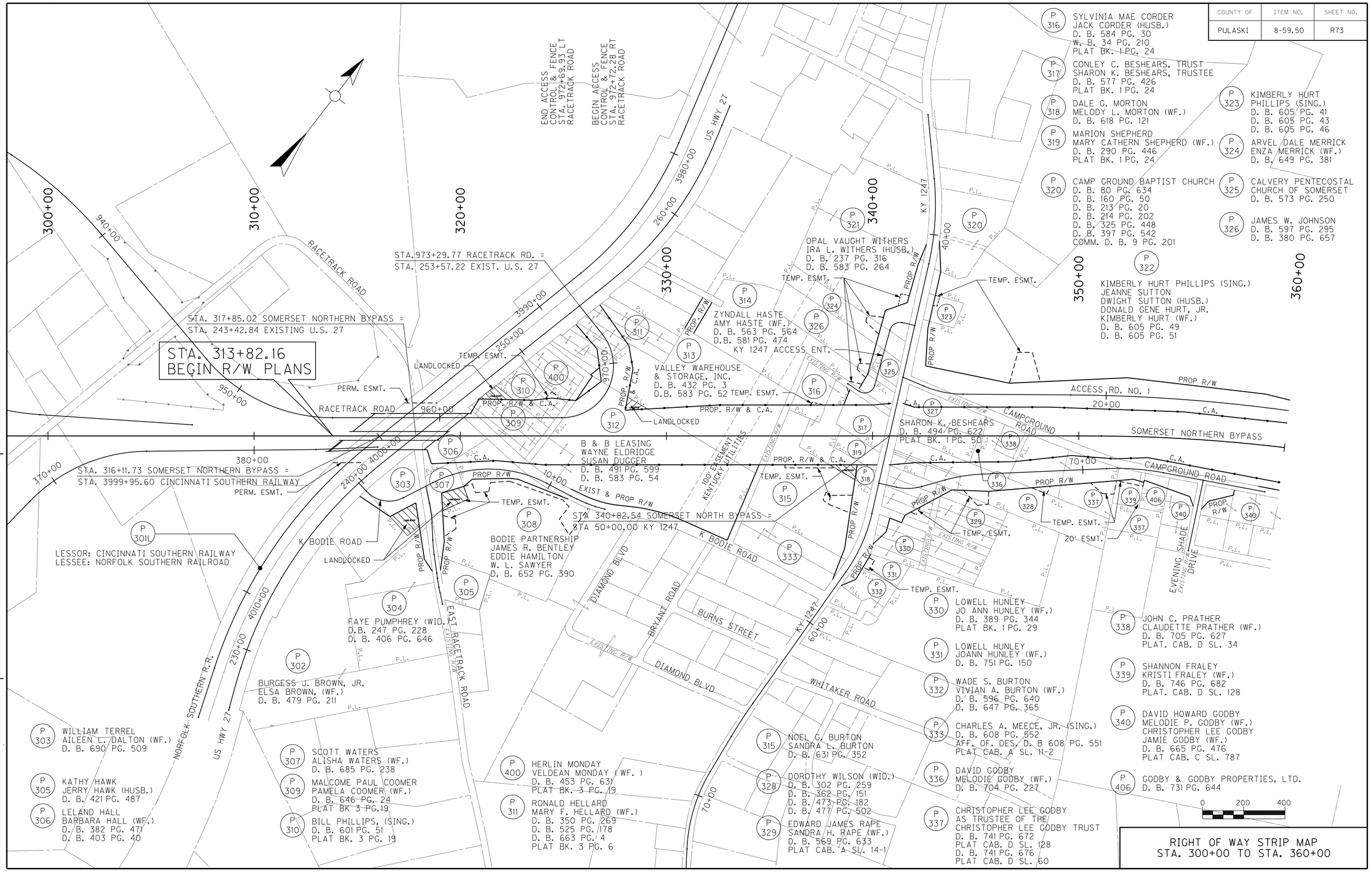
Cell Name: sr ws
3/17/2014

JDQ
1-92
FORM NO. 7

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R73



RIGHT OF WAY STRIP MAP
STA. 300+00 TO STA. 360+00

PREPARED BY	JDG	DATE 3/17/2014
CHECKED BY	JDG	DATE 3/17/2014
APPROVED BY		DATE

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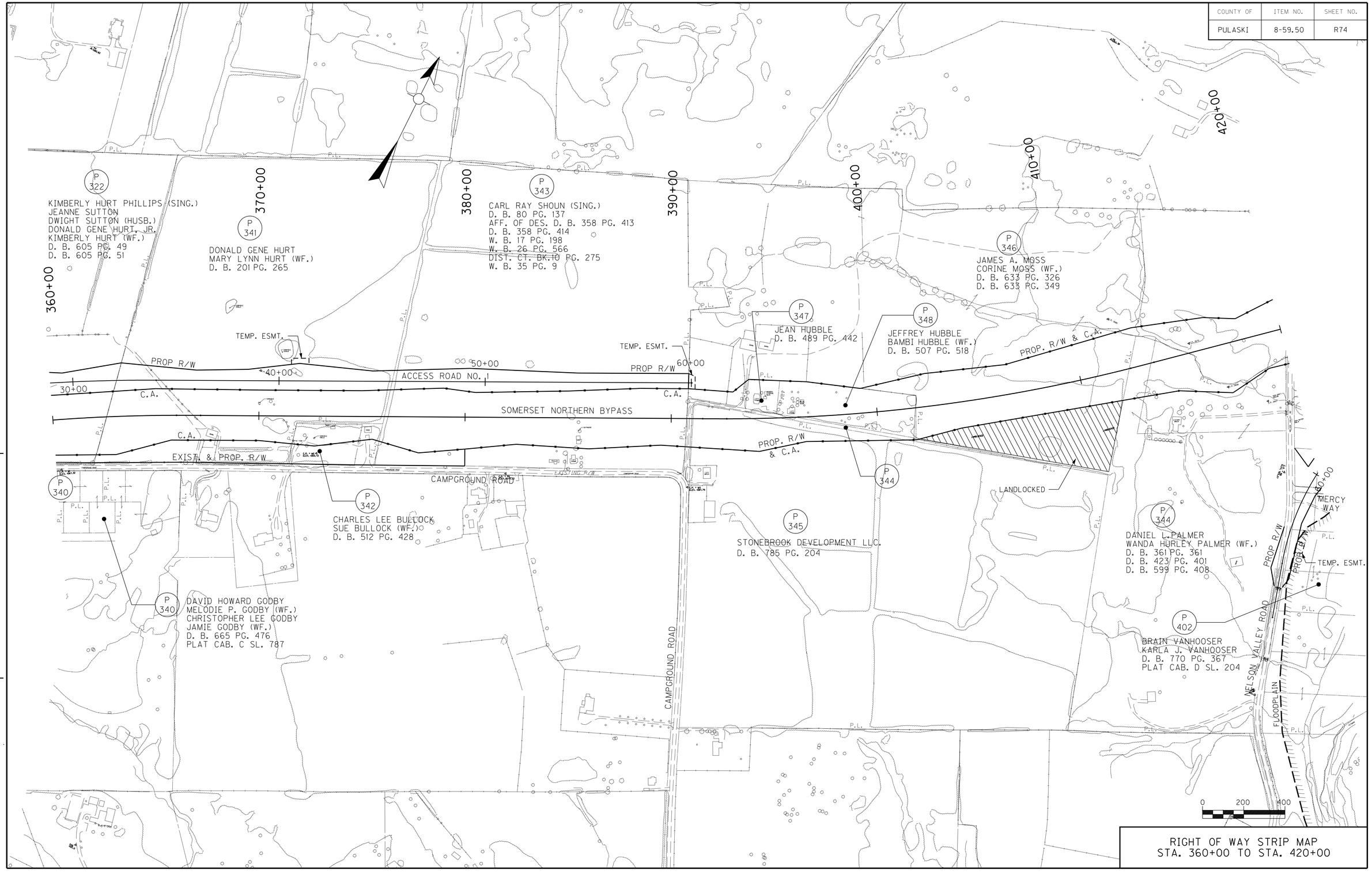
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R74



RIGHT OF WAY STRIP MAP
STA. 360+00 TO STA. 420+00

PREPARED BY	JDQ	DATE 3/17/2014
CHECKED BY	JDQ	DATE 3/17/2014
APPROVED BY		DATE

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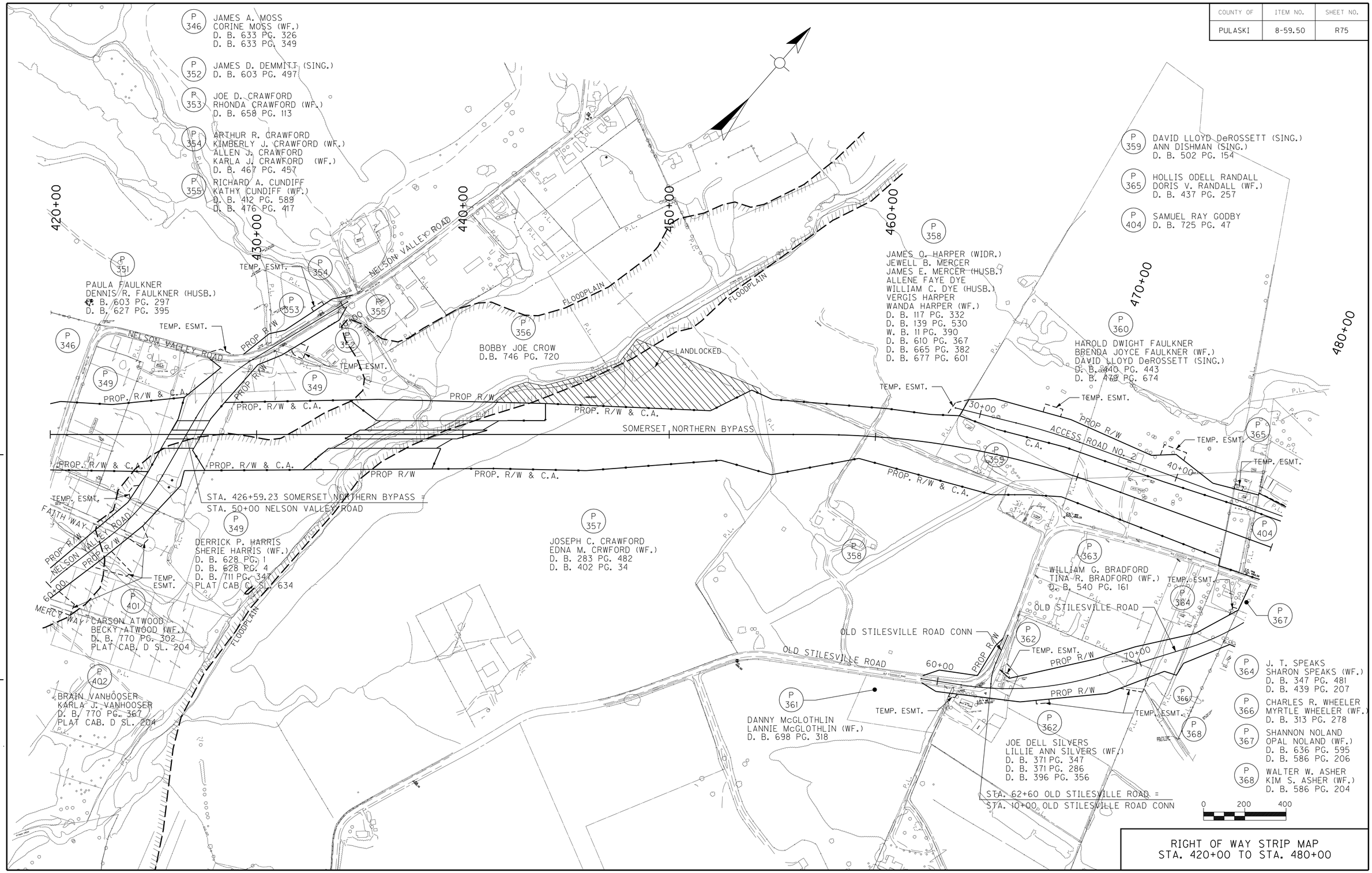
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R75



RIGHT OF WAY STRIP MAP
STA. 420+00 TO STA. 480+00

		DATE
PREPARED BY	JDO	3/17/2014
CHECKED BY	JDO	3/17/2014
APPROVED BY		DATE

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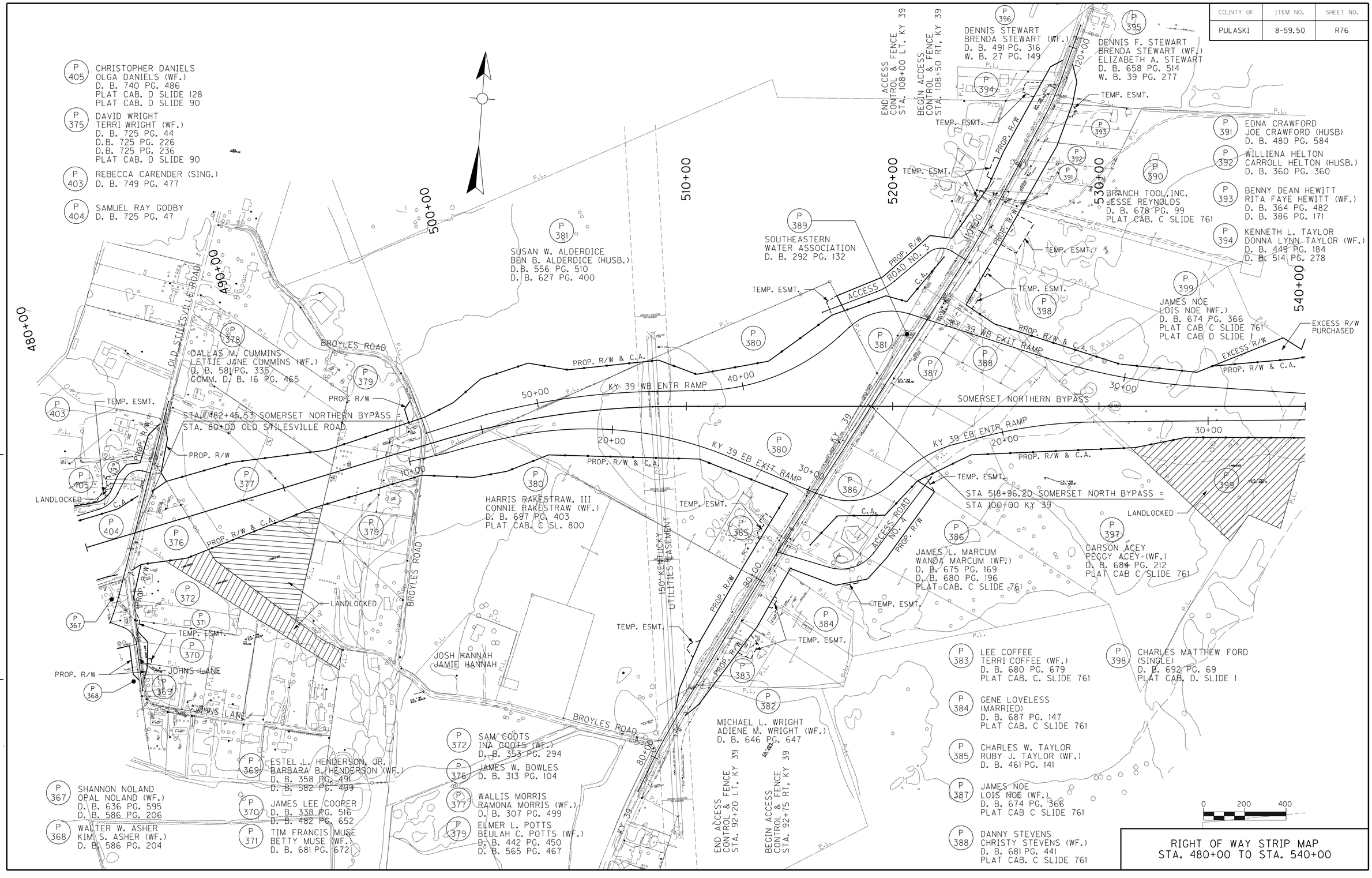
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R76



RIGHT OF WAY STRIP MAP
STA. 480+00 TO STA. 540+00

PREPARED BY	JDQ	DATE 3/17/2014
CHECKED BY	JDQ	DATE 3/17/2014
APPROVED BY		DATE

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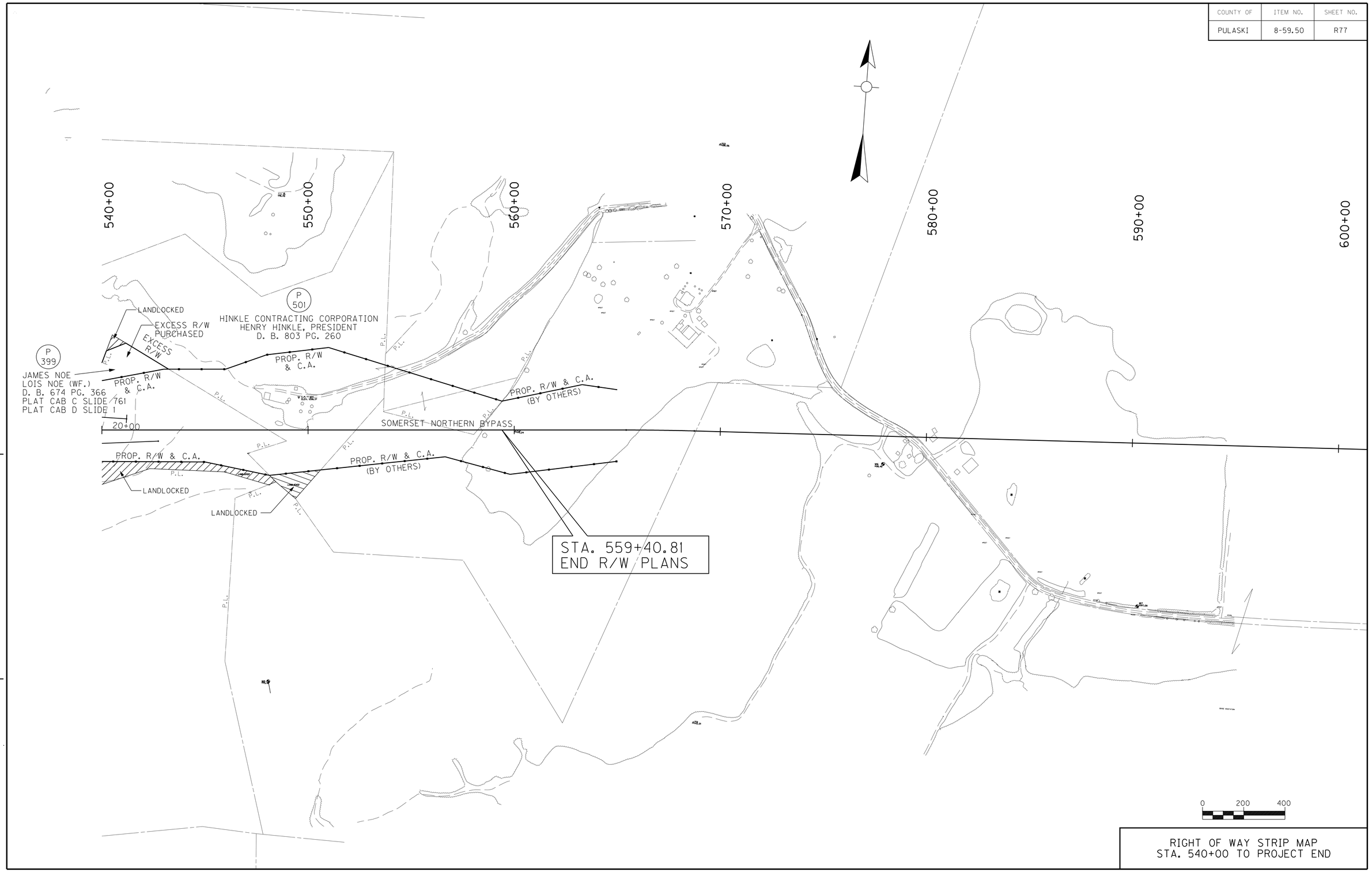
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R77



RIGHT OF WAY STRIP MAP
STA. 540+00 TO PROJECT END

PREPARED BY	JDO	DATE 3/17/2014
CHECKED BY	JDO	DATE 3/17/2014
APPROVED BY		DATE

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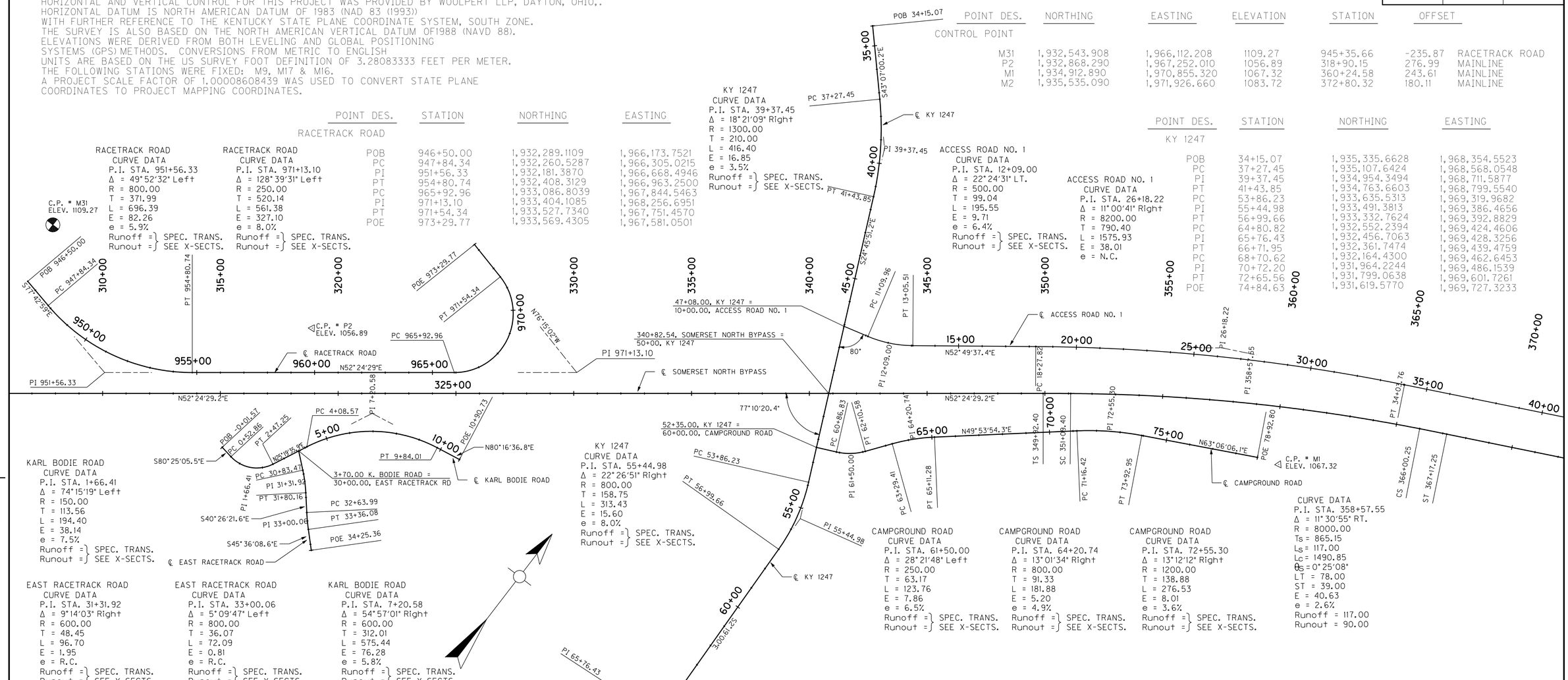
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R78

ORIGIN OF LEVELS

HORIZONTAL AND VERTICAL CONTROL FOR THIS PROJECT WAS PROVIDED BY WOOLPERT LLP, DAYTON, OHIO,.
HORIZONTAL DATUM IS NORTH AMERICAN DATUM OF 1983 (NAD 83 (1993))
WITH FURTHER REFERENCE TO THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
THE SURVEY IS ALSO BASED ON THE NORTH AMERICAN VERTICAL DATUM OF1988 (NAVD 88).
ELEVATIONS WERE DERIVED FROM BOTH LEVELING AND GLOBAL POSITIONING
SYSTEMS (GPS) METHODS. CONVERSIONS FROM METRIC TO ENGLISH
UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION OF 3.28083333 FEET PER METER.
THE FOLLOWING STATIONS WERE FIXED: M9, M17 & M16.
A PROJECT SCALE FACTOR OF 1.00008608439 WAS USED TO CONVERT STATE PLANE
COORDINATES TO PROJECT MAPPING COORDINATES.



POINT DES.	NORTHING	EASTING	ELEVATION	STATION	OFFSET	
CONTROL POINT						
M31	1,932,543.908	1,966,112.208	1109.27	945+35.66	-235.87	RACETRACK ROAD
P2	1,932,868.290	1,967,252.010	1056.89	318+90.15	276.99	MAINLINE
M1	1,934,912.890	1,970,855.320	1067.32	360+24.58	243.61	MAINLINE
M2	1,935,535.090	1,971,926.660	1083.72	372+80.32	180.11	MAINLINE

POINT DES.	STATION	NORTHING	EASTING
RACETRACK ROAD			
POB	946+50.00	1,932,289.1109	1,966,173.7521
PC	947+84.34	1,932,260.5287	1,966,305.0215
PI	951+56.33	1,932,181.3870	1,966,668.4946
PT	954+80.74	1,932,408.3129	1,966,963.2500
PC	965+92.96	1,933,086.8039	1,967,844.5463
PI	971+13.10	1,933,404.1085	1,968,256.6951
PT	971+54.34	1,933,527.7340	1,967,751.4570
POE	973+29.77	1,933,569.4305	1,967,581.0501

POINT DES.	STATION	NORTHING	EASTING
KY 1247			
POB	34+15.07	1,935,335.6628	1,968,354.5523
PC	37+27.45	1,935,107.6424	1,968,568.0548
PI	39+37.45	1,934,954.3494	1,968,711.5877
PT	41+43.85	1,934,763.6603	1,968,799.5540
PC	53+86.23	1,933,635.5313	1,969,319.9682
PI	55+44.98	1,933,491.3813	1,969,386.4656
PT	56+99.66	1,933,332.7624	1,969,392.8829
PC	64+80.82	1,932,552.2394	1,969,424.4606
PI	65+76.43	1,932,456.7063	1,969,428.3256
PT	66+71.95	1,932,361.7474	1,969,439.4759
PC	68+70.62	1,932,164.4300	1,969,462.6453
PI	70+72.20	1,931,964.2244	1,969,486.1539
PT	72+65.56	1,931,799.0638	1,969,601.7261
POE	74+84.63	1,931,619.5770	1,969,727.3233

RACETRACK ROAD
CURVE DATA
P.I. STA. 951+56.33
Δ = 49°52'32" Left
R = 800.00
T = 371.99
L = 696.39
E = 82.26
e = 5.9%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

RACETRACK ROAD
CURVE DATA
P.I. STA. 971+13.10
Δ = 128°39'31" Left
R = 250.00
T = 520.14
L = 561.38
E = 327.10
e = 8.0%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

KY 1247
CURVE DATA
P.I. STA. 39+37.45
Δ = 18°21'09" Right
R = 1300.00
T = 210.00
L = 416.40
E = 16.85
e = 3.5%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

ACCESS ROAD NO. 1
CURVE DATA
P.I. STA. 12+09.00
Δ = 22°24'31" LT.
R = 500.00
T = 99.04
L = 195.55
E = 9.71
e = 6.4%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

ACCESS ROAD NO. 1
CURVE DATA
P.I. STA. 26+18.22
Δ = 11°00'41" Right
R = 8200.00
T = 790.40
L = 1575.93
E = 38.01
e = N.C.

KARL BODIE ROAD
CURVE DATA
P.I. STA. 1+66.41
Δ = 74°15'19" Left
R = 150.00
T = 113.56
L = 194.40
E = 38.14
e = 7.5%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

KY 1247
CURVE DATA
P.I. STA. 55+44.98
Δ = 22°26'51" Right
R = 800.00
T = 158.75
L = 313.43
E = 15.60
e = 8.0%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

CAMPGROUND ROAD
CURVE DATA
P.I. STA. 61+50.00
Δ = 28°21'48" Left
R = 250.00
T = 63.17
L = 123.76
E = 7.86
e = 6.5%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

CAMPGROUND ROAD
CURVE DATA
P.I. STA. 64+20.74
Δ = 13°01'34" Right
R = 800.00
T = 91.33
L = 181.88
E = 5.20
e = 4.9%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

CAMPGROUND ROAD
CURVE DATA
P.I. STA. 72+55.30
Δ = 13°12'12" Right
R = 1200.00
T = 138.88
L = 276.53
E = 8.01
e = 3.6%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

CURVE DATA
P.I. STA. 358+57.55
Δ = 11°30'55" RT.
R = 8000.00
Ts = 865.15
Ls = 117.00
Lc = 1490.85
θs = 0°25'08"
LT = 78.00
ST = 39.00
E = 40.63
e = 2.6%
Runoff = 117.00
Runout = 90.00

EAST RACETRACK ROAD
CURVE DATA
P.I. STA. 31+31.92
Δ = 9°14'03" Right
R = 600.00
T = 48.45
L = 96.70
E = 1.95
e = R.C.
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

EAST RACETRACK ROAD
CURVE DATA
P.I. STA. 33+00.06
Δ = 5°09'47" Left
R = 800.00
T = 36.07
L = 72.09
E = 0.81
e = R.C.
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

KARL BODIE ROAD
CURVE DATA
P.I. STA. 7+20.58
Δ = 54°57'01" Right
R = 600.00
T = 312.01
L = 575.44
E = 76.28
e = 5.8%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

POINT DES.	STATION	NORTHING	EASTING
EAST RACETRACK ROAD			
POB	30+00.00	1,932,420.2966	1,967,524.2475
PC	30+83.47	1,932,366.2822	1,967,587.8791
PI	31+31.92	1,932,334.9254	1,967,624.8190
PT	31+80.16	1,932,298.0472	1,967,656.2484
PC	32+63.99	1,932,234.2462	1,967,710.6225
PI	33+00.06	1,932,206.7940	1,967,734.0191
PT	33+36.08	1,932,181.5586	1,967,759.7908
POE	34+25.36	1,932,119.0995	1,967,823.5773
KARL BODIE ROAD			
POB	-0+01.57	1932234.6679	1967257.5232
PC	0+52.86	1,932,225.6086	1,967,311.1889
PI	1+66.41	1,932,206.7063	1,967,423.1622
PT	2+47.25	1,932,309.3492	1,967,471.7397
PC	4+08.57	1,932,455.1593	1,967,540.7469
PI	7+20.58	1,932,737.1792	1,967,674.2176
PT	9+84.01	1,932,789.8735	1,967,981.7448
POE	10+90.73	1,932,807.8975	1,968,086.9338

POINT DES.	STATION	NORTHING	EASTING
ACCESS ROAD NO. 1			
POB	10+00.00	1,934,251.3912	1,969,035.8674
PC	11+09.96	1,934,279.4133	1,969,142.1953
PI	12+09.00	1,934,304.6534	1,969,237.9673
PT	13+05.51	1,934,364.4969	1,969,316.8857
PC	18+27.82	1,934,680.0901	1,969,733.0725
PI	26+18.22	1,935,157.6683	1,970,362.8762
PT	34+03.76	1,935,506.1574	1,971,072.3048
POE	60+02.87	1,936,652.1126	1,973,405.1563
CAMPGROUND ROAD			
POB	60+00.00	1,933,772.8546	1,969,256.6199
PC	60+86.83	1,933,809.2243	1,969,335.4606
PI	61+50.00	1,933,835.6873	1,969,392.8258
PT	62+10.58	1,933,886.2256	1,969,430.7329
PC	63+29.41	1,933,981.2805	1,969,502.0304
PI	64+20.74	1,934,054.3445	1,969,556.8333
PT	65+11.28	1,934,113.1761	1,969,626.6942
PC	71+16.42	1,934,502.9735	1,970,089.5677
PI	72+55.30	1,934,592.4318	1,970,195.7970
PT	73+92.95	1,934,655.2620	1,970,319.6510
POE	78+92.80	1,934,881.3958	1,970,765.4175

POINT DES.	STATION	NORTHING	EASTING
MAINLINE			
PI	284+84.01	1,930,567.9256	1,964,718.1068
PC	274+58.73	1,930,089.3533	1,963,811.3686
PT	295+04.33	1,931,193.3823	1,965,530.5164
PI	358+57.55	1,935,069.0591	1,970,564.6572
TS	349+92.40	1,934,541.2901	1,969,879.1348
SC	351+09.40	1,934,612.4377	1,969,972.0162
CS	366+00.25	1,935,397.6677	1,971,236.7754
ST	367+17.25	1,935,449.3535	1,971,341.7397

0 200 400

COORDINATE CONTROL LAYOUT PLAN
STA. 310+00 TO STA. 370+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: sp
3/17/2014

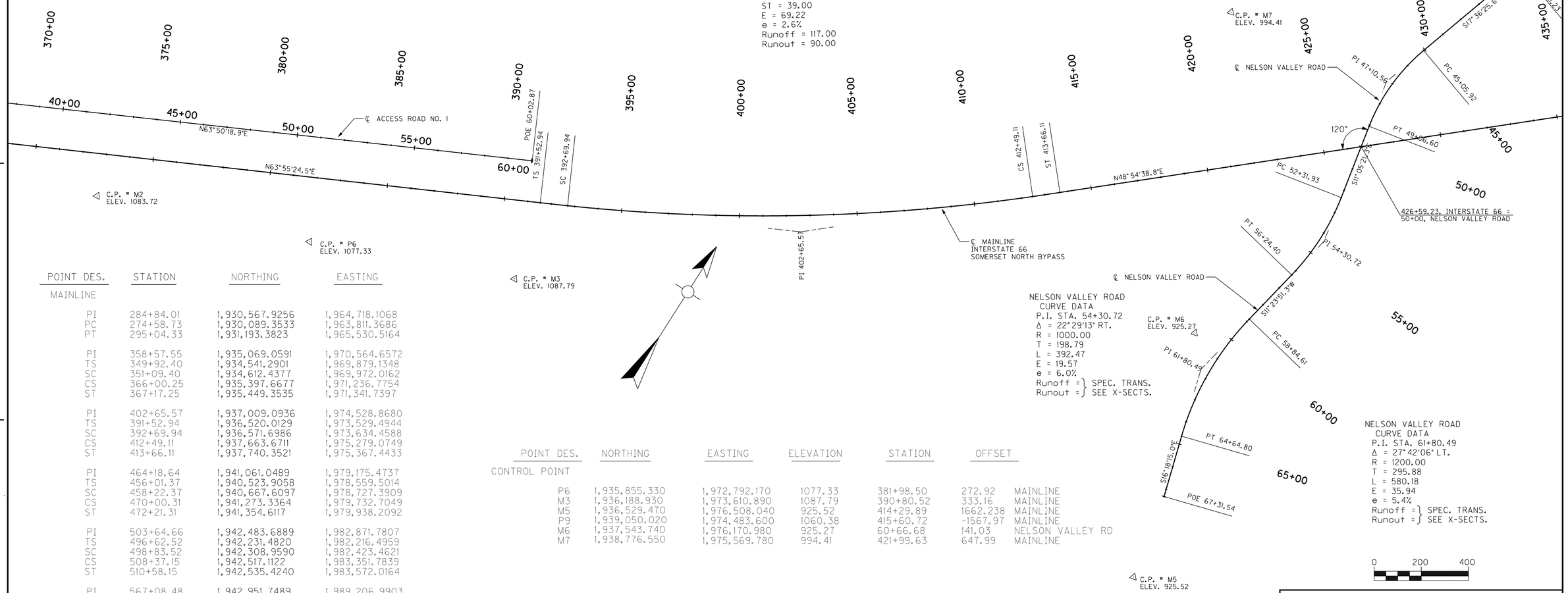
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R79

POINT DES.	NORTHING	EASTING	ELEVATION	STATION	OFFSET	
CONTROL POINT						
M31	1,932,543.908	1,966,112.208	1109.27	945+35.66	-235.87	RACETRACK ROAD
P2	1,932,868.290	1,967,252.010	1056.89	318+90.15	276.99	MAINLINE
M1	1,934,912.890	1,970,855.320	1067.32	360+24.58	243.61	MAINLINE
M2	1,935,535.090	1,971,926.660	1083.72	372+80.32	180.11	MAINLINE
P6	1,935,855.330	1,972,792.170	1077.33	381+98.500	272.92	MAINLINE
M3	1,936,188.930	1,973,610.890	1087.79	390+80.52	333.16	MAINLINE
M5	1,936,529.470	1,976,508.040	925.52	414+29.93	1662.26	MAINLINE
P9	1,939,050.020	1,974,483.600	1060.38	415+60.72	-1567.97	MAINLINE
M6	1,937,543.740	1,976,170.980	925.27	60+66.68	141.03	NELSON VALLEY RD
M7	1,938,776.550	1,975,569.780	994.41	421+99.63	647.99	MAINLINE
M8	1,939,518.780	1,979,075.100	1055.50	453+29.36	1096.42	MAINLINE
M9	1,940,191.350	1,980,086.090	1072.20	62+37.23	26.68	OLD STILESVILLE ROAD
M10	1,941,084.850	1,979,813.070	1050.33	470+02.04	204.90	MAINLINE
P16	1,941,458.291	1,980,660.066	1060.59	479+32.24	162.53	MAINLINE
P18	1,941,247.499	1,981,468.317	1031.04	486+10.83	649.57	MAINLINE
M11	1,941,058.011	1,982,344.736	1034.81	493+60.70	1141.22	MAINLINE
M12	1,940,929.072	1,984,037.730	1036.24	83+47.25	453.46	KY 39
M13	1,942,739.686	1,984,507.940	1035.90	101+73.06	19.79	KY 39
P21	1,943,101.259	1,984,714.737	1018.90	105+89.50	28.46	KY 39
P22	1,944,161.578	1,985,138.541	1070.75	117+32.18	-41.70	KY 39
P26	1,942,312.597	1,985,274.519	1052.87	527+39.61	347.66	MAINLINE
P27	1,942,371.212	1,986,263.664	1082.75	537+30.38	362.09	MAINLINE
M14	1,942,981.180	1,987,446.940	1258.37	549+55.38	-159.03	MAINLINE
M15 (DABNEY)	1,941,595.810	1,987,400.510	1415.42	548+07.00	1219.15	MAINLINE

POINT DES.	STATION	NORTHING	EASTING
ACCESS ROAD NO. 1			
POB	10+00.00	1,934,251.3912	1,969,035.8674
PC	11+09.96	1,934,279.4133	1,969,142.1953
PI	12+09.00	1,934,304.6534	1,969,237.9673
PT	13+05.51	1,934,364.4969	1,969,316.8857
PC	18+27.82	1,934,680.0901	1,969,733.0725
PI	26+18.22	1,935,157.6683	1,970,362.8762
PT	34+03.76	1,935,506.1574	1,971,072.3048
POE	60+02.87	1,936,652.1126	1,973,405.1563
NELSON VALLEY ROAD			
POB	39+70.23	1,939,588.3499	1,976,508.6663
PC	45+05.92	1,939,077.7524	1,976,346.6255
PI	47+10.56	1,938,882.7048	1,976,284.7261
PT	49+06.60	1,938,681.8916	1,976,324.0850
PC	52+31.93	1,938,362.6396	1,976,386.6575
PI	54+30.72	1,938,167.5584	1,976,424.8929
PT	56+24.40	1,937,972.6857	1,976,385.6082
PC	58+84.61	1,937,717.6002	1,976,334.1851
PI	61+80.49	1,937,427.5568	1,976,275.7148
PT	64+64.80	1,937,143.5773	1,976,358.7786
POE	67+31.54	1,936,887.5647	1,976,433.6621

CURVE DATA
P.I. STA. 402+65.57
Δ = 15°00'46" LT.
R = 8000.00
Ts = 1112.63
Ls = 117.00
Lc = 1979.17
θs = 0°25'08"
LT = 78.00
ST = 39.00
E = 69.22
e = 2.6%
Runoff = 117.00
Runout = 90.00

NELSON VALLEY ROAD
CURVE DATA
P.I. STA. 47+10.56
Δ = 28°41'47" Left
R = 800.00
T = 204.63
L = 400.68
E = 25.76
e = 6.8%
Runoff = 141.00
Runout = 41.47



NELSON VALLEY ROAD
CURVE DATA
P.I. STA. 54+30.72
Δ = 22°29'13" RT.
R = 1000.00
T = 198.79
L = 392.47
E = 19.57
e = 6.0%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

NELSON VALLEY ROAD
CURVE DATA
P.I. STA. 61+80.49
Δ = 27°42'06" LT.
R = 1200.00
T = 295.88
L = 580.18
E = 35.94
e = 5.4%
Runoff = } SPEC. TRANS.
Runout = } SEE X-SECTS.

POINT DES.	STATION	NORTHING	EASTING
MAINLINE			
PI	284+84.01	1,930,567.9256	1,964,718.1068
PC	274+58.73	1,930,089.3533	1,963,811.3686
PT	295+04.33	1,931,193.3823	1,965,530.5164
PI	358+57.55	1,935,069.0591	1,970,564.6572
TS	349+92.40	1,934,541.2901	1,969,879.1348
SC	351+09.40	1,934,612.4377	1,969,972.0162
CS	366+00.25	1,935,397.6677	1,971,236.7754
ST	367+17.25	1,935,449.3535	1,971,341.7397
PI	402+65.57	1,937,009.0936	1,974,528.8680
TS	391+52.94	1,936,520.0129	1,973,529.4944
SC	392+69.94	1,936,571.6986	1,973,634.4588
CS	412+49.11	1,937,663.6711	1,975,279.0749
ST	413+66.11	1,937,740.3521	1,975,367.4433
PI	464+18.64	1,941,061.0489	1,979,175.4737
TS	456+01.37	1,940,523.9058	1,978,559.5014
SC	458+22.37	1,940,667.6097	1,978,727.3909
CS	470+00.31	1,941,273.3364	1,979,732.7049
ST	472+21.31	1,941,354.6117	1,979,938.2092
PI	503+64.66	1,942,483.6889	1,982,871.7807
TS	496+62.52	1,942,231.4820	1,982,216.4959
SC	498+83.52	1,942,308.9590	1,982,423.4621
CS	508+37.15	1,942,517.1122	1,983,351.7839
ST	510+58.15	1,942,535.4240	1,983,572.0164
PI	567+08.48	1,942,951.7489	1,989,206.9903

POINT DES.	NORTHING	EASTING	ELEVATION	STATION	OFFSET	
CONTROL POINT						
P6	1,935,855.330	1,972,792.170	1077.33	381+98.50	272.92	MAINLINE
M3	1,936,188.930	1,973,610.890	1087.79	390+80.52	333.16	MAINLINE
M5	1,936,529.470	1,976,508.040	925.52	414+29.89	1662.238	MAINLINE
P9	1,939,050.020	1,974,483.600	1060.38	415+60.72	-1567.97	MAINLINE
M6	1,937,543.740	1,976,170.980	925.27	60+66.68	141.03	NELSON VALLEY RD
M7	1,938,776.550	1,975,569.780	994.41	421+99.63	647.99	MAINLINE

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: sp
3/17/2014

COORDINATE CONTROL LAYOUT PLAN
STA. 370+00 TO STA. 430+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R80

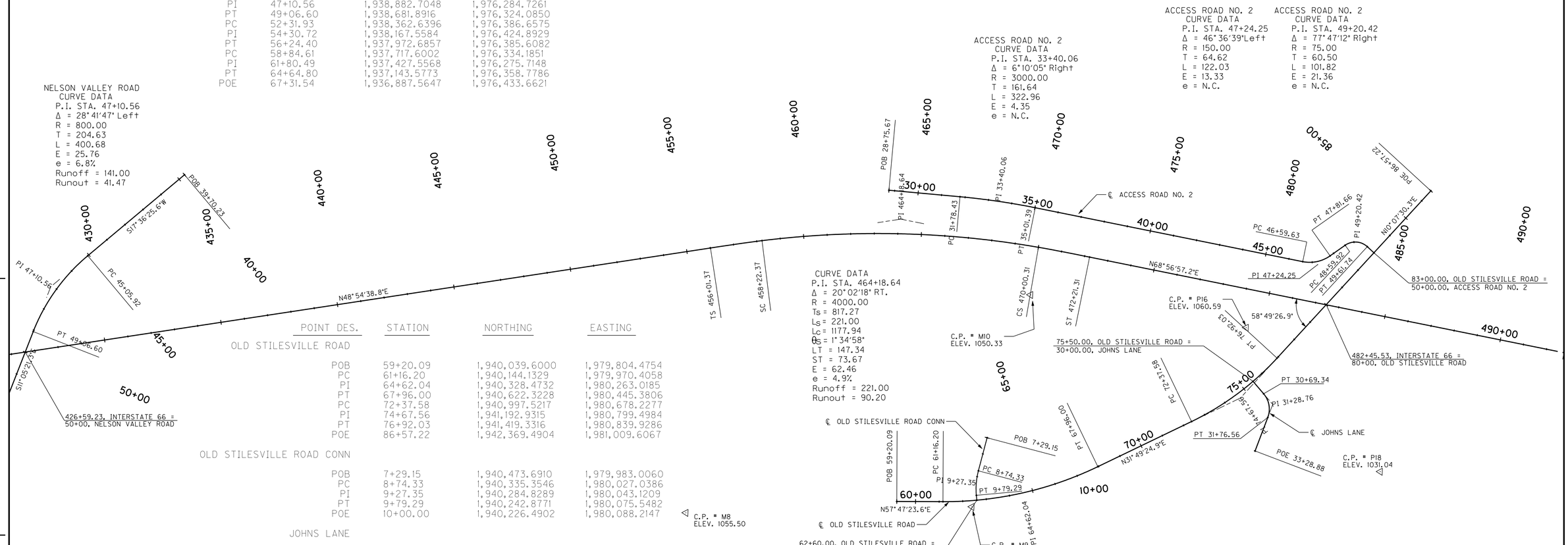
POINT DES.	STATION	NORTHING	EASTING
MAINLINE			
PI	464+18.64	1,941,061.0489	1,979,175.4737
TS	456+01.37	1,940,523.9058	1,978,559.5014
SC	458+22.37	1,940,667.6097	1,978,727.3909
CS	470+00.31	1,941,273.3364	1,979,732.7049
ST	472+21.31	1,941,354.6117	1,979,938.2092
PI	503+64.66	1,942,483.6889	1,982,871.7807
TS	496+62.52	1,942,231.4820	1,982,216.4959
SC	498+83.52	1,942,308.9590	1,982,423.4621
CS	508+37.15	1,942,517.1122	1,983,351.7839
ST	510+58.15	1,942,535.4240	1,983,572.0164
PI	567+08.48	1,942,951.7489	1,989,206.9903
NELSON VALLEY ROAD			
POB	39+70.23	1,939,588.3499	1,976,508.6663
PC	45+05.92	1,939,077.7524	1,976,346.6255
PI	47+10.56	1,938,882.7048	1,976,284.7261
PT	49+06.60	1,938,681.8916	1,976,324.0850
PC	52+31.93	1,938,362.6396	1,976,386.6575
PI	54+30.72	1,938,167.5584	1,976,424.8929
PT	56+24.40	1,937,972.6857	1,976,385.6082
PC	58+84.61	1,937,717.6002	1,976,334.1851
PI	61+80.49	1,937,427.5568	1,976,275.7148
PT	64+64.80	1,937,143.5773	1,976,358.7786
POE	67+31.54	1,936,887.5647	1,976,433.6621

NELSON VALLEY ROAD
CURVE DATA
P.I. STA. 47+10.56
Δ = 28°41'47" Left
R = 800.00
T = 204.63
L = 400.68
E = 25.76
e = 6.8%
Runoff = 141.00
Runout = 41.47

ACCESS ROAD NO. 2
CURVE DATA
P.I. STA. 33+40.06
Δ = 6°10'05" Right
R = 3000.00
T = 161.64
L = 322.96
E = 4.35
e = N.C.

ACCESS ROAD NO. 2
CURVE DATA
P.I. STA. 47+24.25
Δ = 46°36'39" Left
R = 150.00
T = 64.62
L = 122.03
E = 13.33
e = N.C.

ACCESS ROAD NO. 2
CURVE DATA
P.I. STA. 49+20.42
Δ = 77°47'12" Right
R = 75.00
T = 60.50
L = 101.82
E = 21.36
e = N.C.



CURVE DATA
P.I. STA. 464+18.64
Δ = 20°02'18" RT.
R = 4000.00
Ts = 817.27
Ls = 221.00
Lc = 1177.94
θs = 1°34'58"
LT = 147.34
ST = 73.67
E = 62.46
e = 4.9%
Runoff = 221.00
Runout = 90.20

POINT DES.	STATION	NORTHING	EASTING
OLD STILESVILLE ROAD			
POB	59+20.09	1,940,039.6000	1,979,804.4754
PC	61+16.20	1,940,144.1329	1,979,970.4058
PI	64+62.04	1,940,328.4732	1,980,263.0185
PT	67+96.00	1,940,622.3228	1,980,445.3806
PC	72+37.58	1,940,997.5217	1,980,678.2277
PI	74+67.56	1,941,192.9315	1,980,799.4984
PT	76+92.03	1,941,419.3316	1,980,839.9286
POE	86+57.22	1,942,369.4904	1,981,009.6067
OLD STILESVILLE ROAD CONN			
POB	7+29.15	1,940,473.6910	1,979,983.0060
PC	8+74.33	1,940,335.3546	1,980,027.0386
PI	9+27.35	1,940,284.8289	1,980,043.1209
PT	9+79.29	1,940,242.8771	1,980,075.5482
POE	10+00.00	1,940,226.4902	1,980,088.2147
JOHNS LANE			
POB	30+00.00	1,941,281.3149	1,980,806.7535
PC	30+69.34	1,941,261.1489	1,980,873.1001
PI	31+28.76	1,941,243.8714	1,980,929.9439
PT	31+76.56	1,941,185.6864	1,980,941.9543
POE	33+28.88	1,941,036.5092	1,980,972.7470
ACCESS ROAD NO. 2			
POB	28+75.67	1,941,137.3587	1,979,067.2168
PC	31+78.43	1,941,275.8380	1,979,336.4498
PI	33+40.06	1,941,349.7695	1,979,480.1881
PT	35+01.39	1,941,407.8288	1,979,631.0379
PC	46+59.63	1,941,823.8636	1,980,711.9808
PI	47+24.25	1,941,847.0738	1,980,772.2854
PT	47+81.66	1,941,906.8417	1,980,796.8448
PC	48+59.92	1,941,979.2316	1,980,826.5907
PI	49+20.42	1,942,035.1942	1,980,849.5864
PT	49+61.74	1,942,024.5579	1,980,909.1472
POE	50+00.00	1,942,017.8325	1,980,946.8081

OLD STILESVILLE
ROAD CONN.
CURVE DATA
P.I. STA. 9+27.35
Δ = 20°02'47" Left
R = 300.00
T = 53.02
L = 104.96
E = 4.65
e = N.C.

OLD STILESVILLE ROAD
CURVE DATA
P.I. STA. 64+62.04
Δ = 25°57'59" Left
R = 1500.00
T = 345.84
L = 679.80
E = 39.35
e = 4.6%
Runoff = 95.00
Runout = 41.30

OLD STILESVILLE ROAD
CURVE DATA
P.I. STA. 74+67.56
Δ = 21°41'55" Left
R = 1200.00
T = 229.98
L = 454.45
E = 21.84
e = 5.4%
Runoff = 112.00
Runout = 41.48

JOHNS LANE
CURVE DATA
P.I. STA. 31+28.76
Δ = 61°25'50" Right
R = 100.00
T = 59.41
L = 107.22
E = 16.32
e = N.C.

0 200 400

COORDINATE CONTROL LAYOUT PLAN
STA. 430+00 TO STA. 490+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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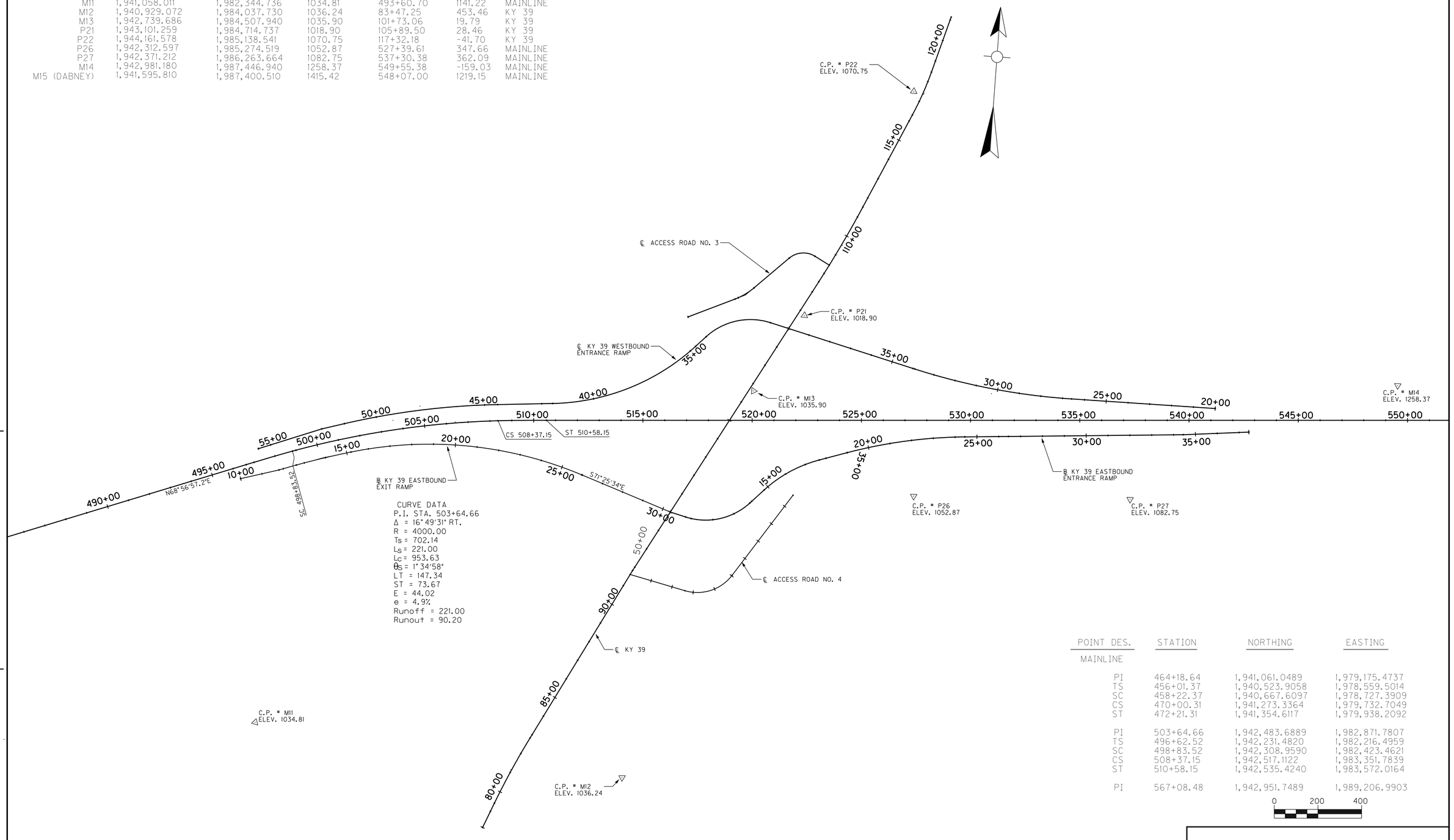
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R81

POINT DES.	NORTHING	EASTING	ELEVATION	STATION	OFFSET	
CONTROL POINT						
M11	1,941,058.011	1,982,344.736	1034.81	493+60.70	1141.22	MAINLINE
M12	1,940,929.072	1,984,037.730	1036.24	83+47.25	453.46	KY 39
M13	1,942,739.686	1,984,507.940	1035.90	101+73.06	19.79	KY 39
P21	1,943,101.259	1,984,714.737	1018.90	105+89.50	28.46	KY 39
P22	1,944,161.578	1,985,138.541	1070.75	117+32.18	-41.70	KY 39
P26	1,942,312.597	1,985,274.519	1052.87	527+39.61	347.66	MAINLINE
P27	1,942,371.212	1,986,263.664	1082.75	537+30.38	362.09	MAINLINE
M14	1,942,981.180	1,987,446.940	1258.37	549+55.38	-159.03	MAINLINE
M15 (DABNEY)	1,941,595.810	1,987,400.510	1415.42	548+07.00	1219.15	MAINLINE



CURVE DATA
P.I. STA. 503+64.66
Δ = 16°49'31" RT.
R = 4000.00
Ts = 702.14
Ls = 221.00
Lc = 953.63
θs = 1°34'58"
LT = 147.34
ST = 73.67
E = 44.02
e = 4.9%
Runoff = 221.00
Runout = 90.20

POINT DES.	STATION	NORTHING	EASTING
MAINLINE			
PI	464+18.64	1,941,061.0489	1,979,175.4737
TS	456+01.37	1,940,523.9058	1,978,559.5014
SC	458+22.37	1,940,667.6097	1,978,727.3909
CS	470+00.31	1,941,273.3364	1,979,732.7049
ST	472+21.31	1,941,354.6117	1,979,938.2092
PI	503+64.66	1,942,483.6889	1,982,871.7807
TS	496+62.52	1,942,231.4820	1,982,216.4959
SC	498+83.52	1,942,308.9590	1,982,423.4621
CS	508+37.15	1,942,517.1122	1,983,351.7839
ST	510+58.15	1,942,535.4240	1,983,572.0164
PI	567+08.48	1,942,951.7489	1,989,206.9903

0 200 400

COORDINATE CONTROL LAYOUT PLAN
STA. 490+00 TO STA. 540+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R82

EROSION CONTROL PLANS

EROSION CONTROL NOTES

ALL SILT CONTROL DEVICES SHALL BE SIZED TO RETAIN A VOLUME OF 3,600 CUBIC FEET PER DISTURBED CONTRIBUTING ACRE.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED GROUND DURING EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL COMPUTE THE VOLUME NECESSARY TO CONTROL SEDIMENT DURING EACH PHASE OF CONSTRUCTION. AS WORK PROCEEDS, SILT TRAPS MAY BE ADDED OR REMOVED IN ORDER TO ACHIEVE THE BEST MANAGEMENT PLAN. THE REQUIRED VOLUME AT EACH ADDED SILT TRAP SHALL BE COMPUTED AS UP GRADIENT CONTRIBUTING AREAS ARE DISTURBED OR ARE STABILIZED TO THE SATISFACTION OF THE ENGINEER. THE REQUIRED VOLUME CALCULATION FOR EACH SILT TRAP SHALL BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER. THE REQUIRED VOLUME AT EACH SILT TRAP MAY BE REDUCED BY THE FOLLOWING AMOUNTS:

- UP GRADIENT AREAS NOT DISTURBED (ACRES).
- UP GRADIENT AREAS THAT HAVE BEEN RECLAIMED AND PROTECTED BY EROSION CONTROL BLANKET OR OTHER GROUND PROTECTION MATERIAL (ACRES).
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT FENCE (ACRES). AREAS PROTECTED BY SILT FENCE SHALL BE COMPUTED AT A MAXIMUM RATE OF 100 SQUARE FOOT PER LINEAR FOOT OF SILT FENCE.
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT TRAPS (ACRES).

THE EROSION CONTROL PLAN SHALL BE ANNOTATED AS THE WORK PROCEEDS BY THE CONTRACTOR TO DETAIL THE SELECTION OF EACH EROSION CONTROL DEVICE USED AND THE VOLUME PROVIDED BY EACH SILT TRAP IN ACCORDANCE WITH THE DOCUMENTATION PROCEDURES ESTABLISHED BY THE DIVISION OF CONSTRUCTION.

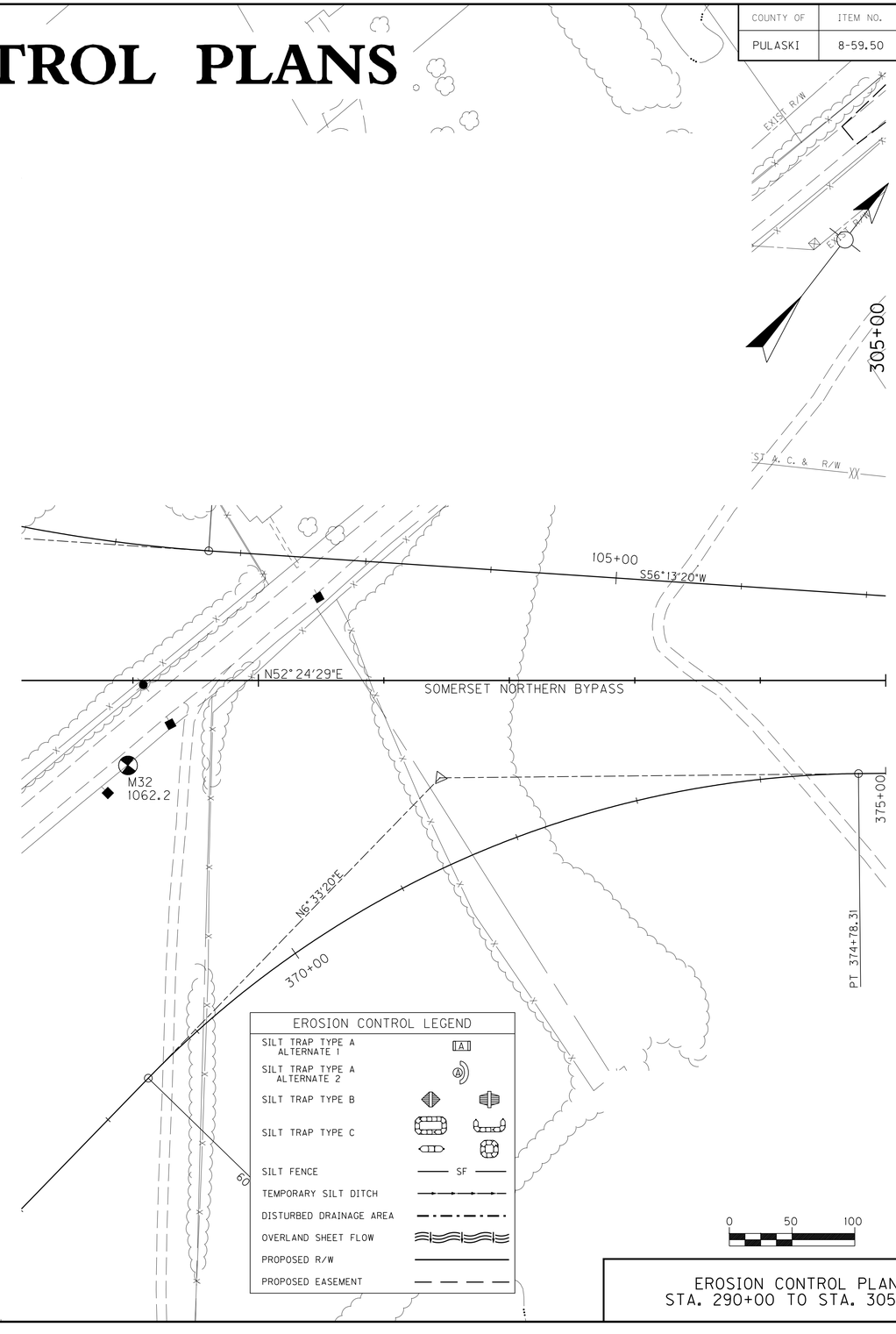
IF A SILT BASIN IS NOT USED THEN ONE SILT TRAP, TYPE A, ALTERNATE NUMBER 2 OR SILT TRAP, TYPE B SHALL ALWAYS BE PLACED AT THE MOST REMOTE DOWNSTREAM COLLECTION POINT PRIOR TO DISCHARGING INTO A BLUE LINE STREAM OR ONTO AN ADJACENT PROPERTY OWNER. WHERE OVERLAND FLOW EXIST A SILT FENCE OR OTHER FILTER DEVICES MAY BE USED OR THE OVERLAND FLOW MAY BE DIVERTED TO ONE OF THE FOREMENTED SILT BASIN OR TRAPS.

THE EROSION CONTROL PLANS DO NOT CONSTITUTE A BMP BY THEMSELVES. THEY PROVIDE A STARTING POINT FOR THE CONTRACTOR AND RESIDENT ENGINEER TO DEVELOP THE BMP ACCORDING TO SECTION 213.03.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE SUPPLEMENTAL SPECS EFFECTIVE WITH THE OCTOBER, 2004 LETTING.

EROSION CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONING PRIOR TO ANY EXCAVATION OR DISTURBANCE WITHIN A DRAINAGE AREA.

THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) SILT TRAPS AND SILT FENCES WHENEVER THEY BECOME ONE-HALF FULL AND PROPERLY DISPOSE OF THE MATERIAL AT SITES APPROVED BY THE RESIDENT ENGINEER.

EROSION CONTROL MEASURES EMPLOYED BY THE CONTRACTOR WILL BE UNIQUE TO THE PROJECT AND WORK CONDITIONS AND SHALL BE APPROVED BY THE RESIDENT ENGINEER. THE DEVELOPMENT AND UTILIZATION OF THESE MEASURES WILL BE RECORDED AS PART OF THE BMP, KEPT ON SITE, AND AVAILABLE FOR PUBLIC INSPECTION.



EROSION CONTROL PLAN
STA. 290+00 TO STA. 305+00

PREPARED BY	JDO	DATE 3/17/2014
CHECKED BY	JDO	DATE 3/17/2014
APPROVED BY		DATE

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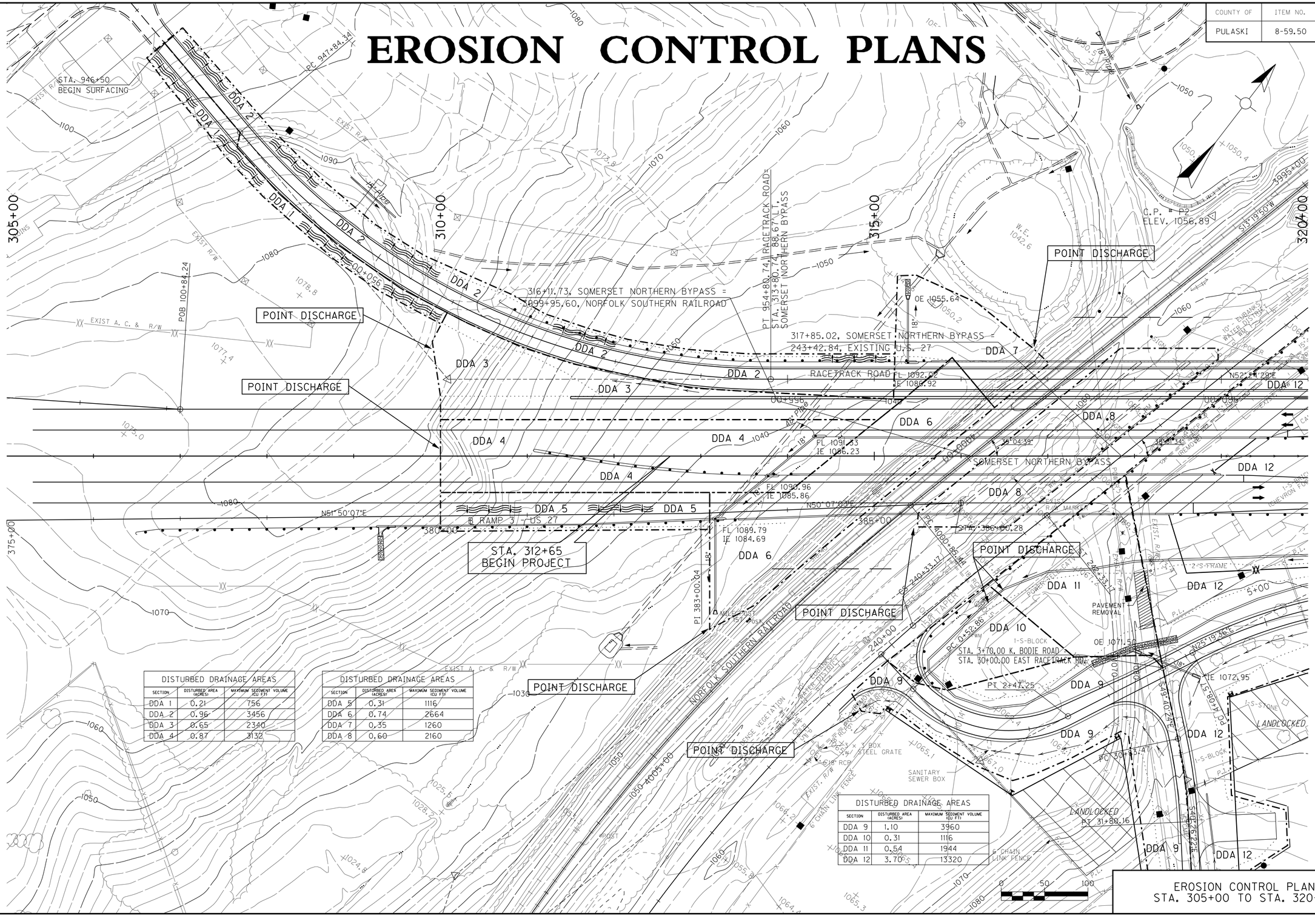
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R83

EROSION CONTROL PLANS



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 1	0.21	756
DDA 2	0.96	3456
DDA 3	0.65	2340
DDA 4	0.87	3132

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 5	0.31	1116
DDA 6	0.74	2664
DDA 7	0.35	1260
DDA 8	0.60	2160

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 9	1.10	3960
DDA 10	0.31	1116
DDA 11	0.54	1944
DDA 12	3.70	13320

EROSION CONTROL PLAN
STA. 305+00 TO STA. 320+00

PREPARED BY	JDQ	DATE 3/17/2014
CHECKED BY	JDQ	DATE 3/17/2014
APPROVED BY		DATE

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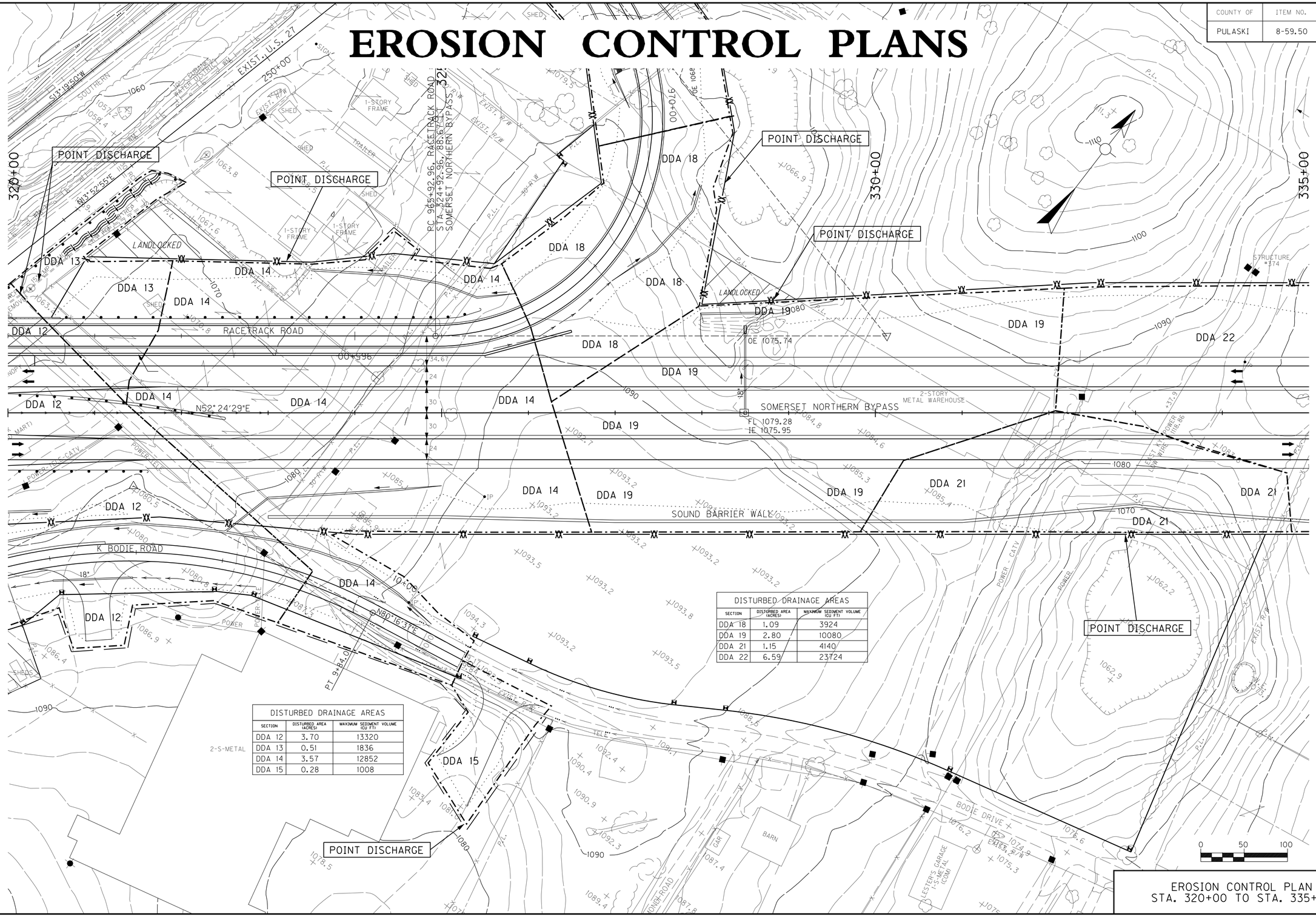
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R84

EROSION CONTROL PLANS



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 12	3.70	13320
DDA 13	0.51	1836
DDA 14	3.57	12852
DDA 15	0.28	1008

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 18	1.09	3924
DDA 19	2.80	10080
DDA 21	1.15	4140
DDA 22	6.59	23724

EROSION CONTROL PLAN
STA. 320+00 TO STA. 335+00

PREPARED BY	JDO	DATE 3/17/2014
CHECKED BY	JDO	DATE 3/17/2014
APPROVED BY		DATE

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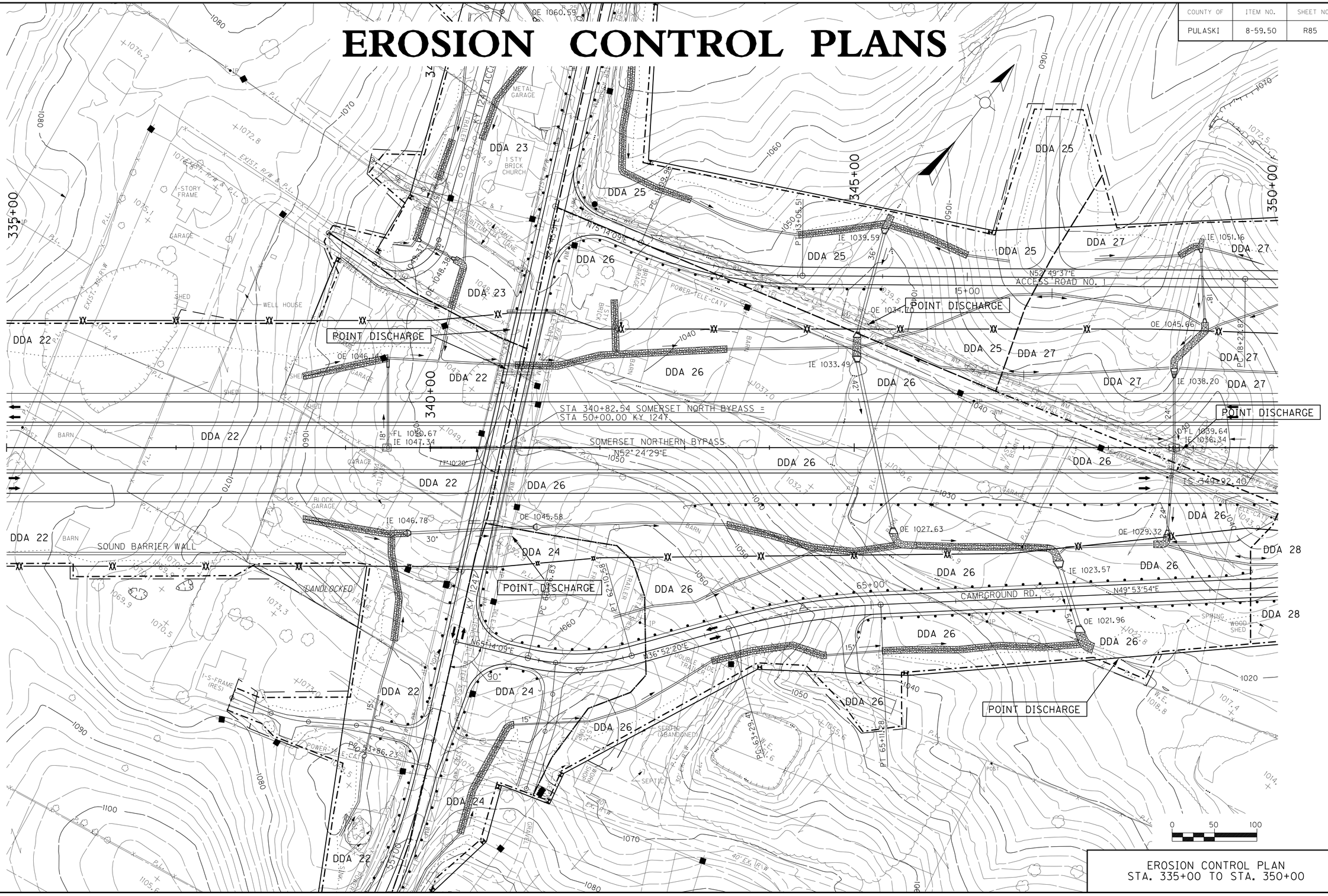
Cell Name: sp
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R85



EROSION CONTROL PLAN
STA. 335+00 TO STA. 350+00

PREPARED BY	JDG	DATE 3/17/2014
CHECKED BY	JDG	DATE 3/17/2014
APPROVED BY		DATE

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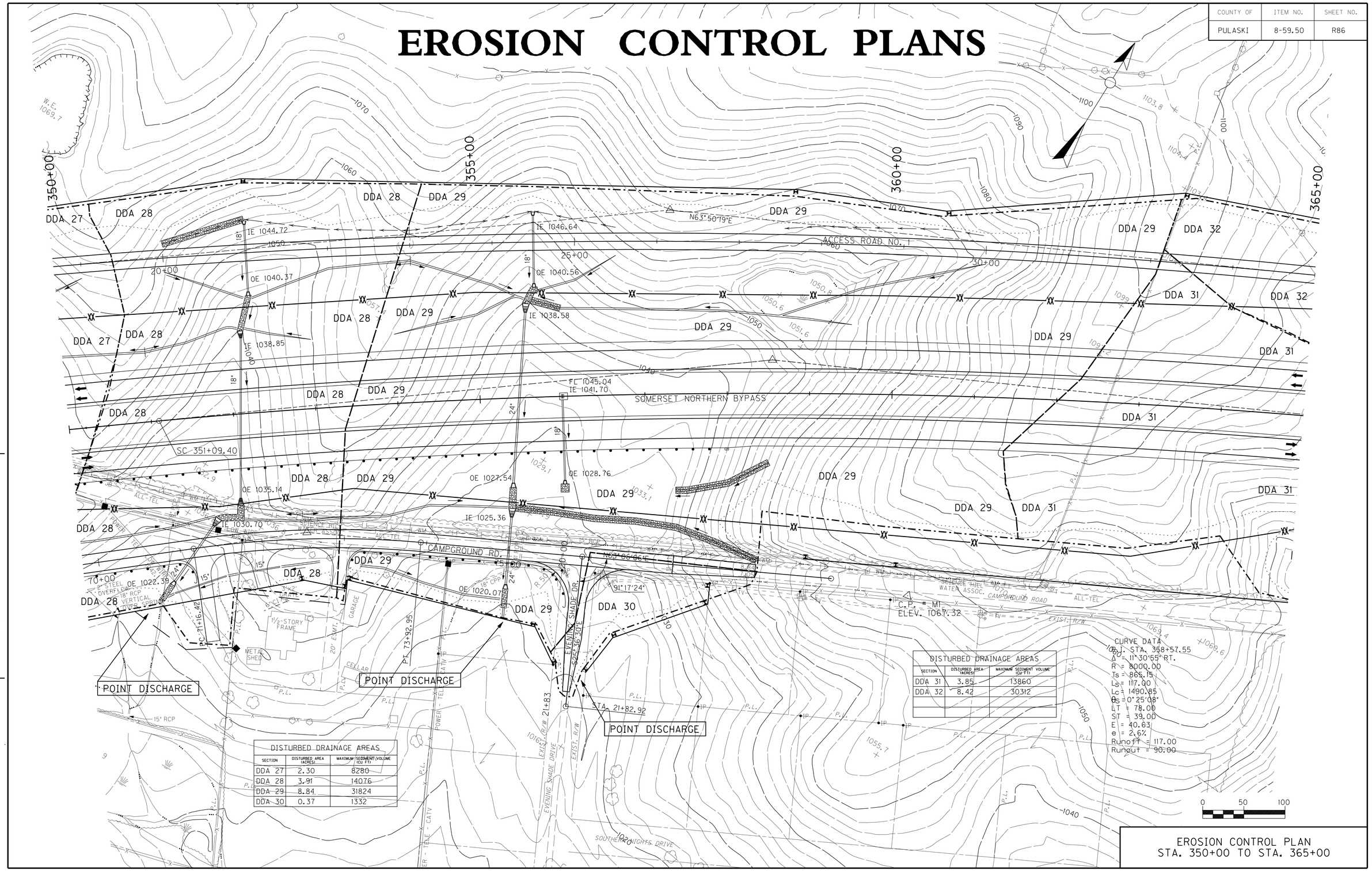
Cell Name: sp
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R86



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Ts = 865.15
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LT = 78.00
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E = 40.63
e = 2.6%
Runoff = 117.00
Runout = 90.00

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 27	2.30	8280
DDA 28	3.91	14076
DDA 29	8.84	31824
DDA 30	0.37	1332

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 31	3.85	13860
DDA 32	8.42	30312

0 50 100

EROSION CONTROL PLAN
STA. 350+00 TO STA. 365+00

PREPARED BY	JDO	DATE 3/17/2014
CHECKED BY	JDO	DATE 3/17/2014
APPROVED BY		DATE

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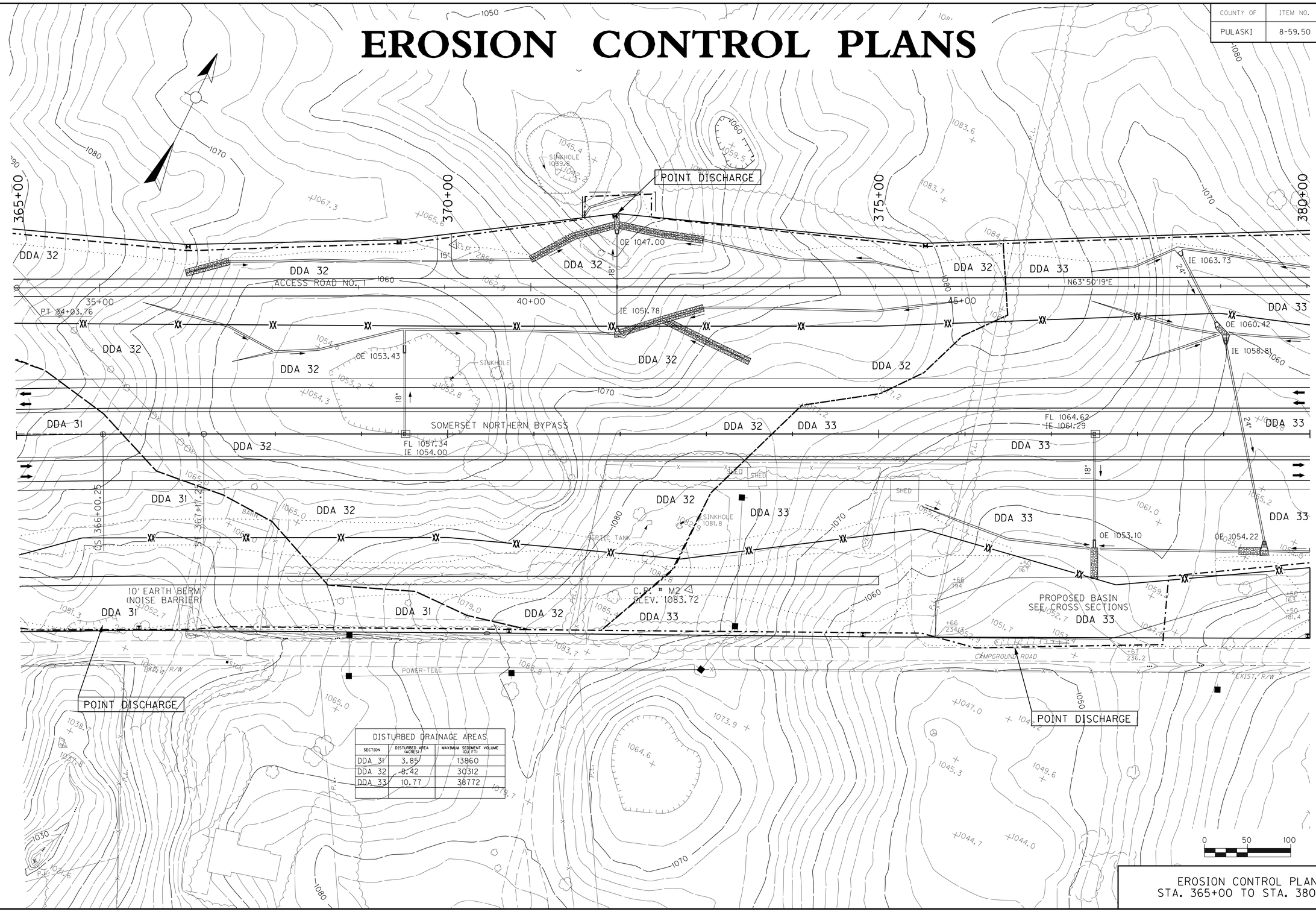
Cell Names: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R87

EROSION CONTROL PLANS



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU. FT.)
DDA 31	3.85	13860
DDA 32	8.42	30312
DDA 33	10.77	38772

EROSION CONTROL PLAN
STA. 365+00 TO STA. 380+00

PREPARED BY	JDD	DATE	3/17/2014
CHECKED BY	JDD	DATE	3/17/2014
APPROVED BY		DATE	

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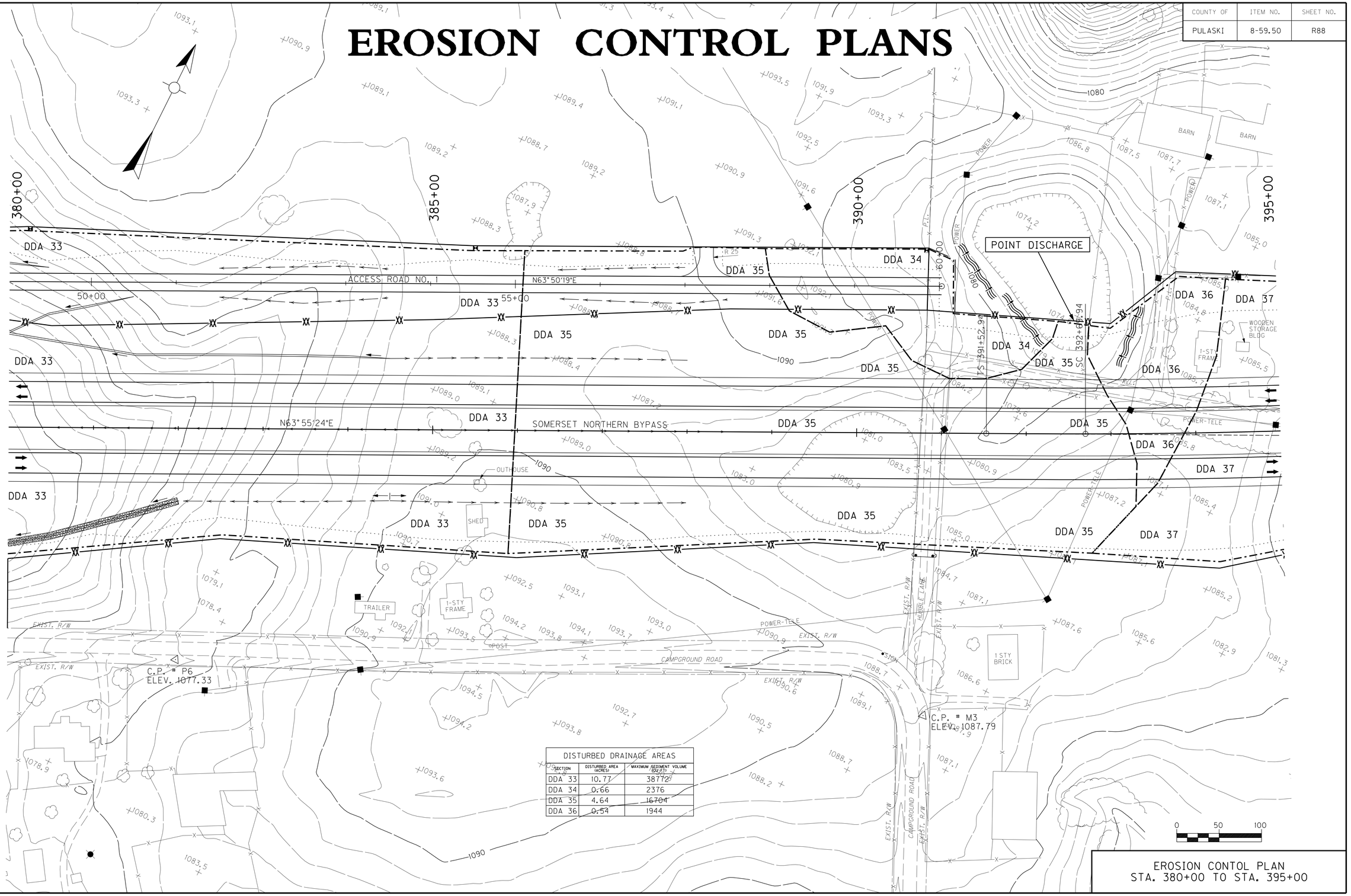
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R88

EROSION CONTROL PLANS



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU. FT.)
DDA 33	10.77	38772
DDA 34	0.66	2376
DDA 35	4.64	16704
DDA 36	0.54	1944

EROSION CONTOL PLAN
STA. 380+00 TO STA. 395+00

PREPARED BY	JDQ	DATE 3/17/2014
CHECKED BY	JDQ	DATE 3/17/2014
APPROVED BY		DATE

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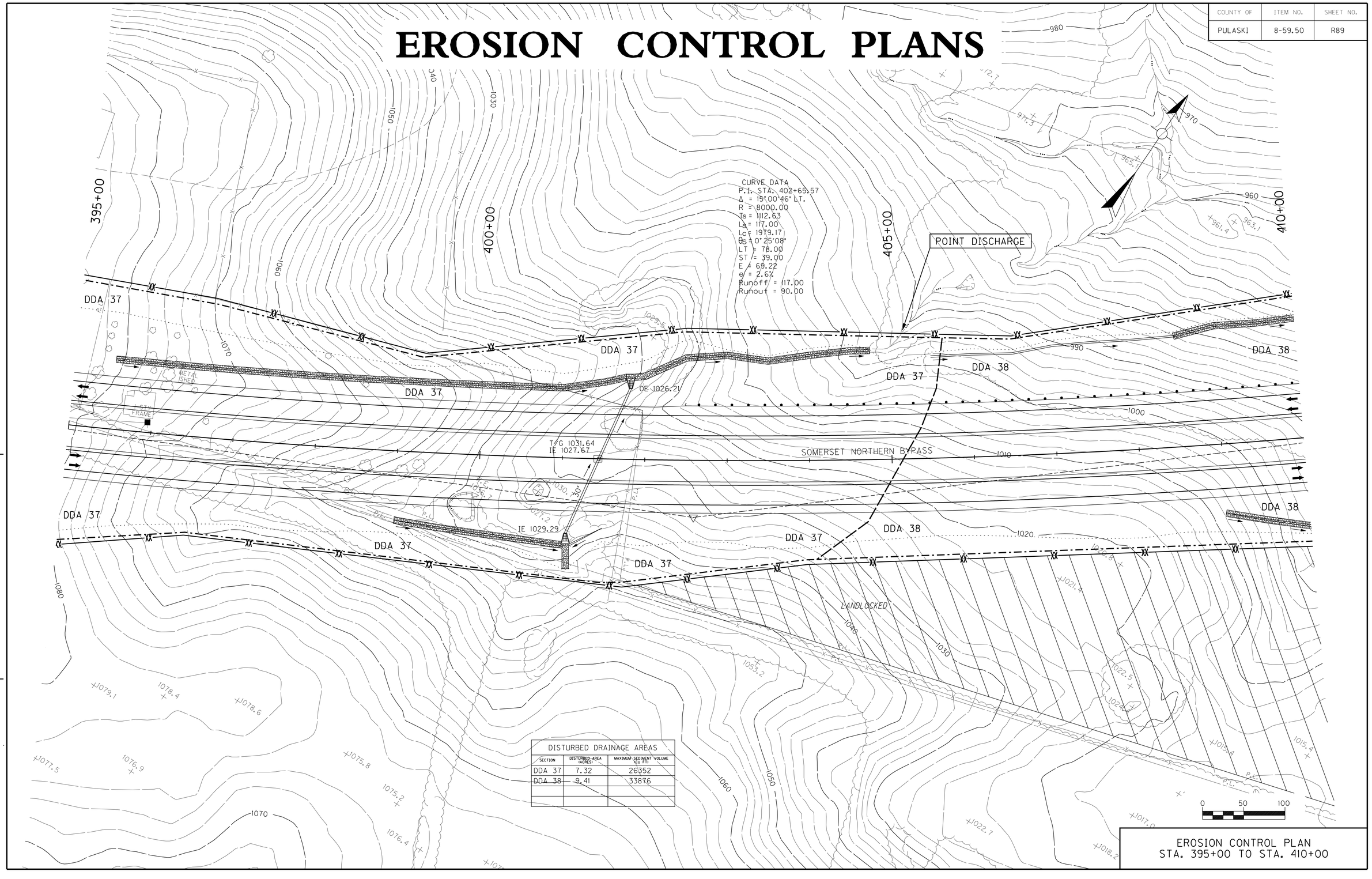
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R89

EROSION CONTROL PLANS



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 37	7.32	26352
DDA 38	9.41	33876

EROSION CONTROL PLAN
STA. 395+00 TO STA. 410+00

PREPARED BY	JDQ	DATE 3/17/2014
CHECKED BY	JDQ	DATE 3/17/2014
APPROVED BY		DATE

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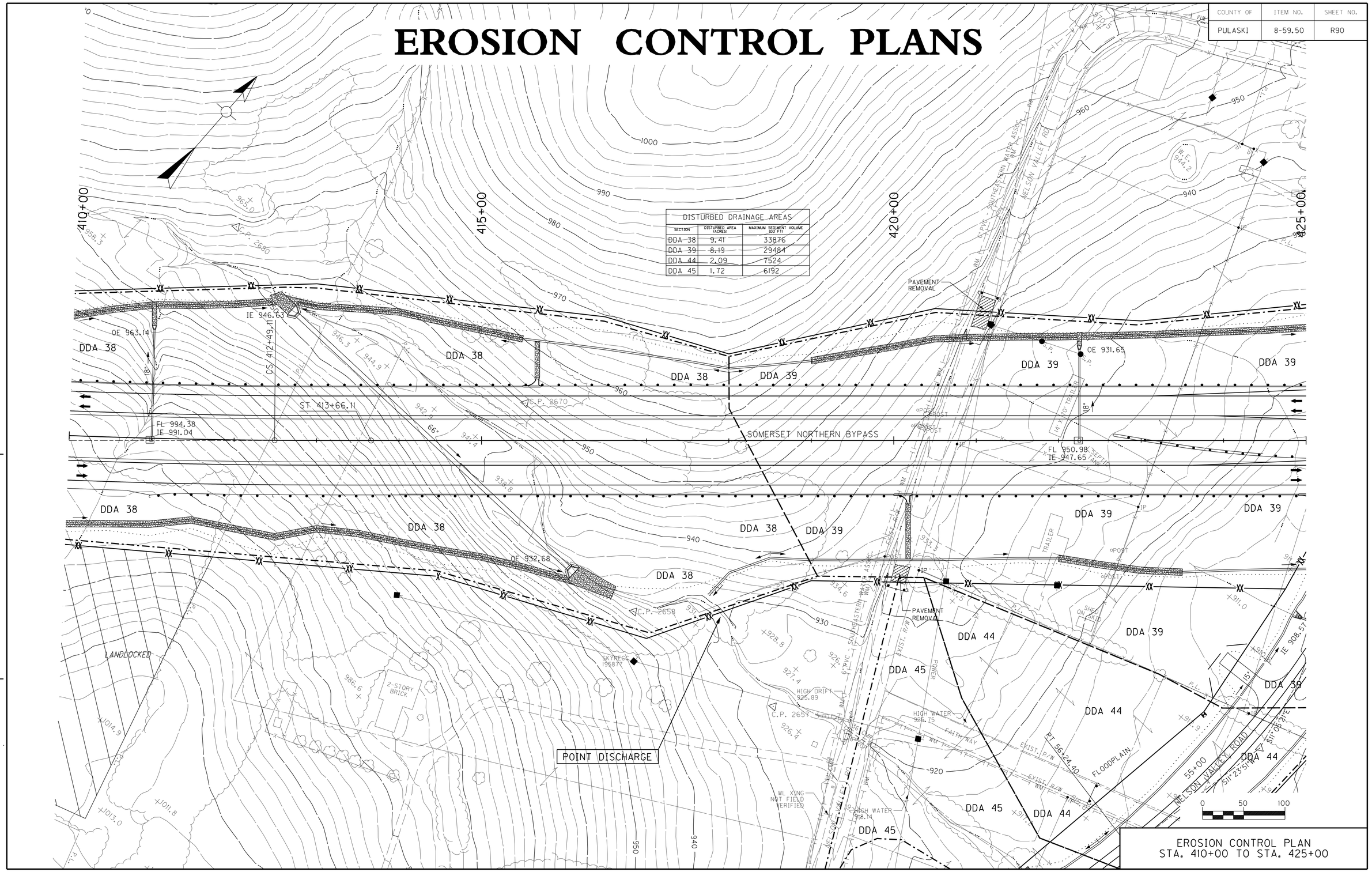
Cell Name: sp
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R90



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 38	9.41	33876
DDA 39	8.19	29484
DDA 44	2.09	7524
DDA 45	1.72	6192

EROSION CONTROL PLAN
STA. 410+00 TO STA. 425+00

		DATE
PREPARED BY	JDO	3/17/2014
CHECKED BY	JDO	3/17/2014
APPROVED BY		

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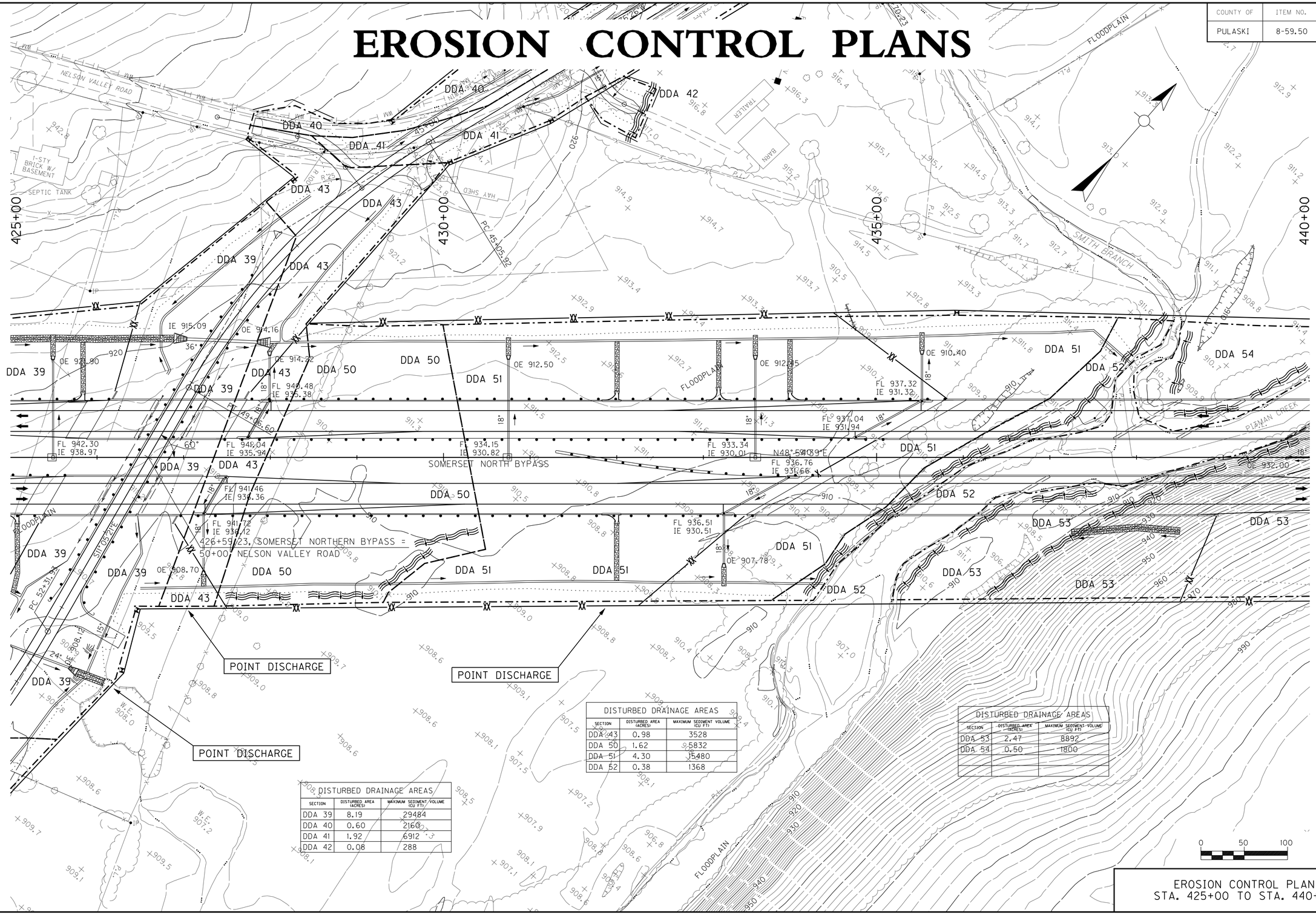
Cell Name: sp
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R91



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 39	8.19	29484
DDA 40	0.60	2160
DDA 41	1.92	6912
DDA 42	0.08	288

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 43	0.98	3528
DDA 50	1.62	5832
DDA 51	4.30	15480
DDA 52	0.38	1368

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 53	2.47	8892
DDA 54	0.50	1800

EROSION CONTROL PLAN
STA. 425+00 TO STA. 440+00

PREPARED BY	JDO	DATE 3/17/2014
CHECKED BY	JDO	DATE 3/17/2014
APPROVED BY		DATE

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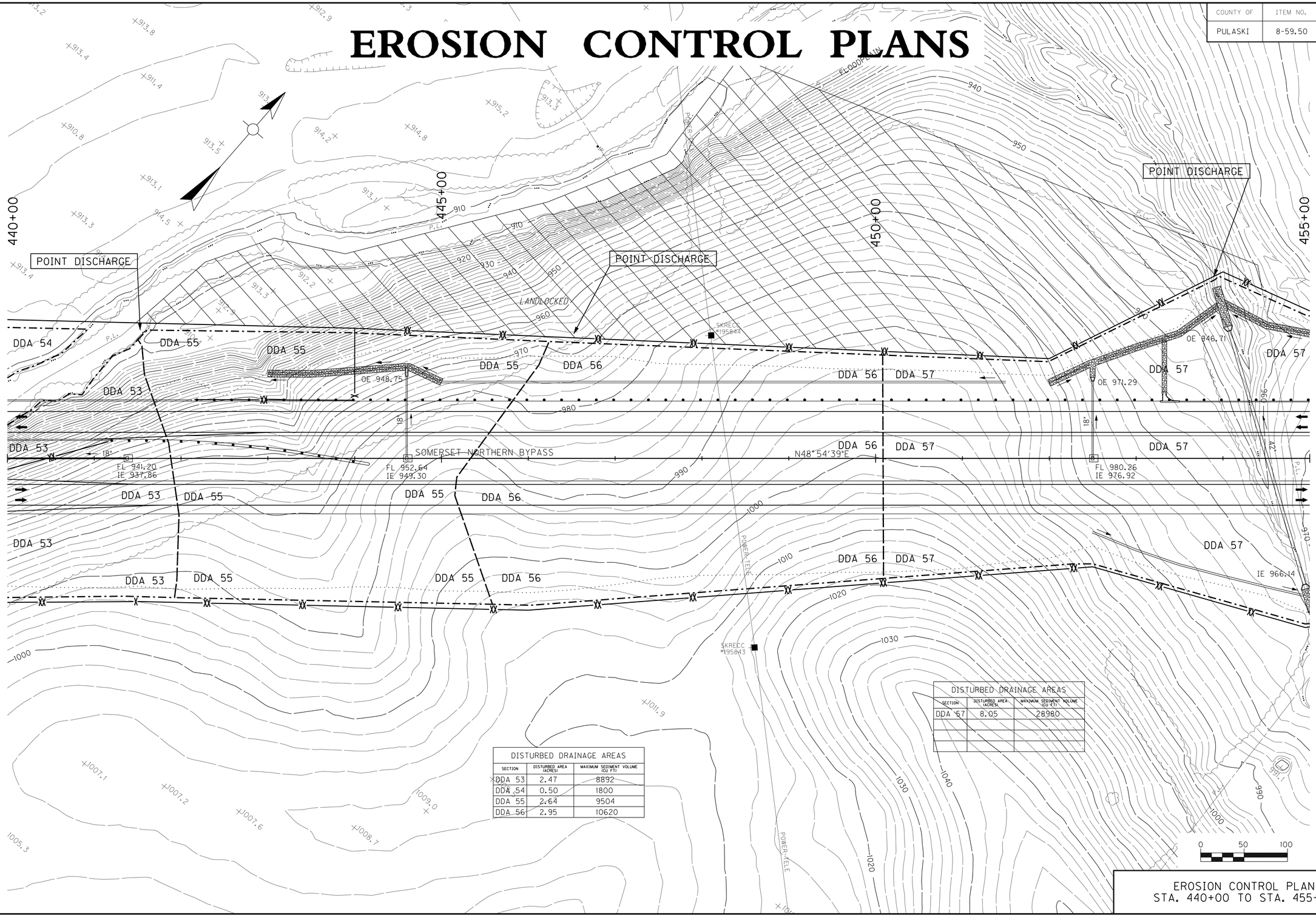
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R92

EROSION CONTROL PLANS



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 53	2.47	8892
DDA 54	0.50	1800
DDA 55	2.64	9504
DDA 56	2.95	10620

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 57	8.05	28980

0 50 100

EROSION CONTROL PLAN
STA. 440+00 TO STA. 455+00

PREPARED BY JDO DATE 3/17/2014
CHECKED BY JDO DATE 3/17/2014
APPROVED BY DATE

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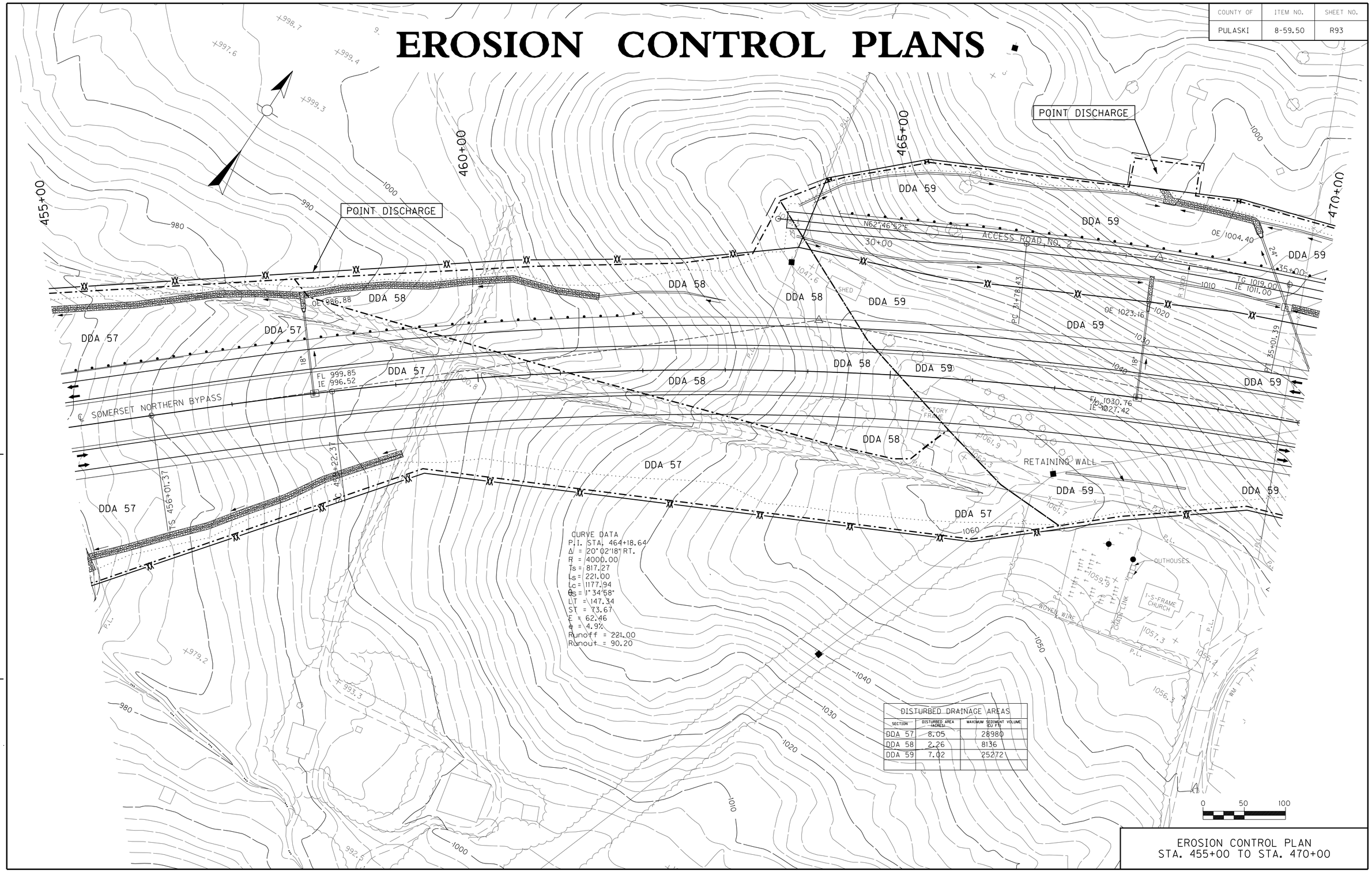
Cell Name: sp
3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R93

EROSION CONTROL PLANS



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 57	8.05	28980
DDA 58	2.26	8136
DDA 59	7.02	25272

EROSION CONTROL PLAN
STA. 455+00 TO STA. 470+00

PREPARED BY	JDO	DATE 3/17/2014
CHECKED BY	JDO	DATE 3/17/2014
APPROVED BY		DATE

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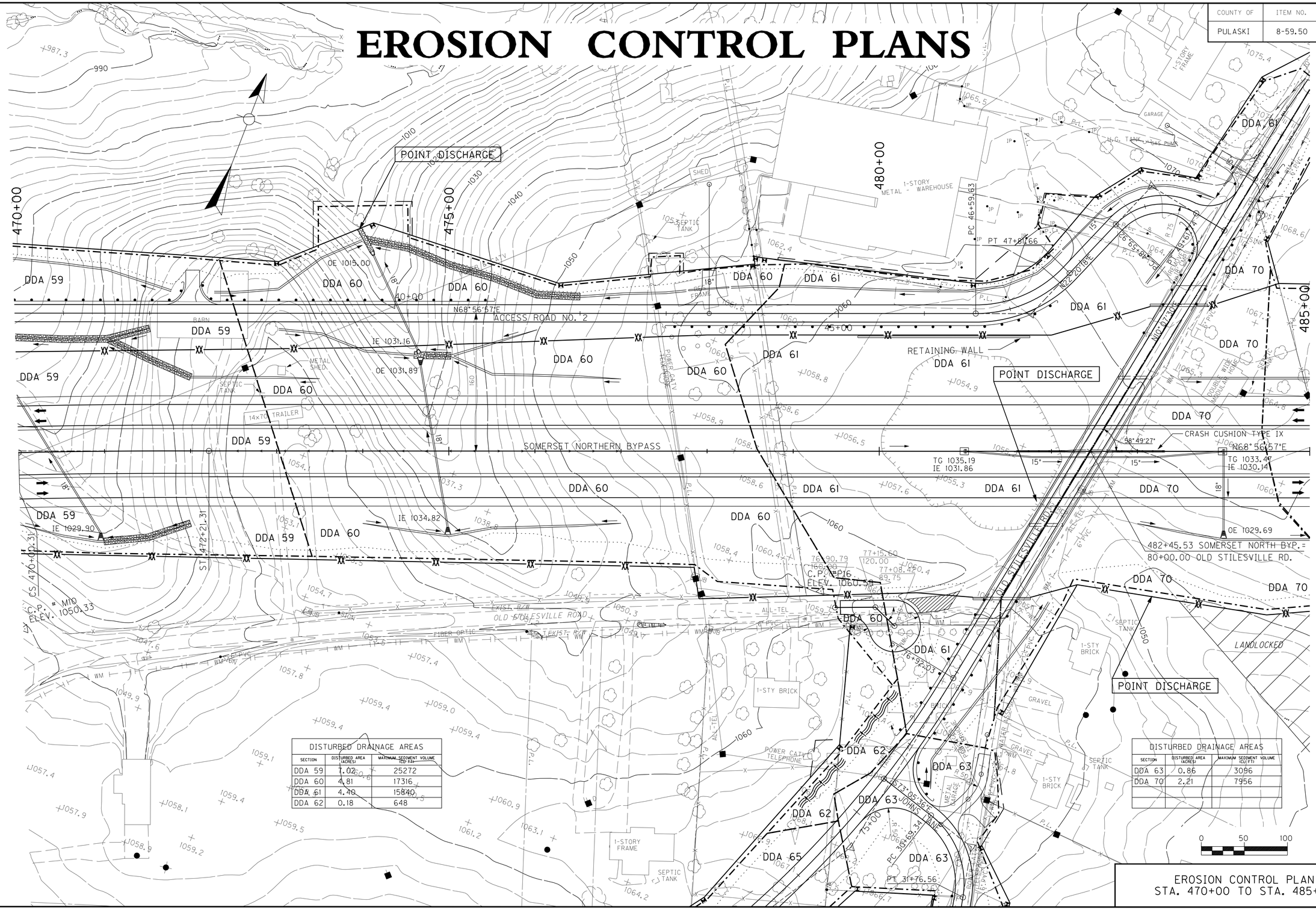
Cell Names: sp
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R94



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 59	7.02	25272
DDA 60	4.81	17316
DDA 61	4.40	15840
DDA 62	0.18	648

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 63	0.86	3096
DDA 70	2.21	7956

EROSION CONTROL PLAN
STA. 470+00 TO STA. 485+00

PREPARED BY	JDO	DATE 3/17/2014
CHECKED BY	JDO	DATE 3/17/2014
APPROVED BY		DATE

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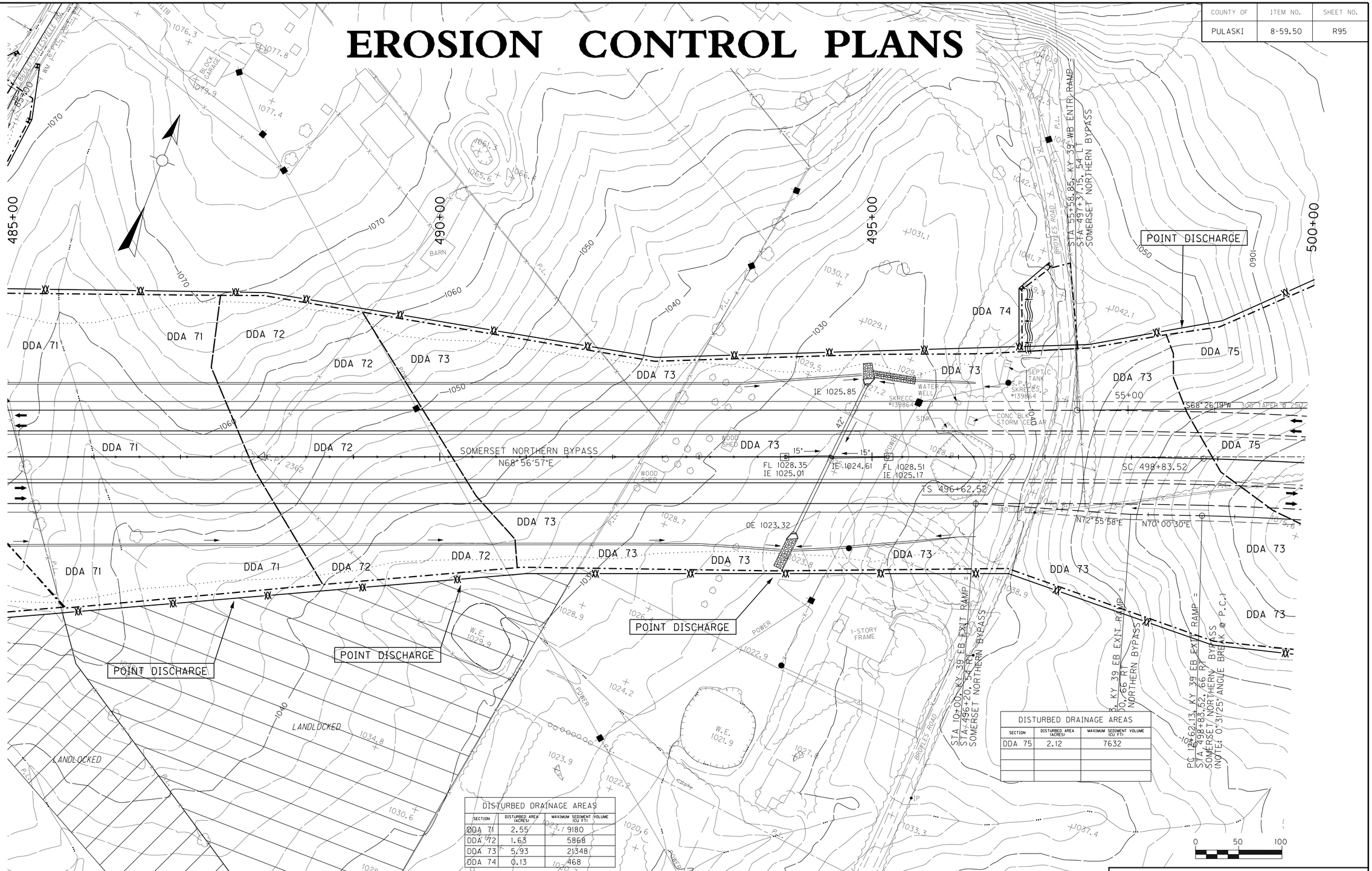
Cell Name: SP
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R95



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 71	2.55	9180
DDA 72	1.63	5868
DDA 73	5.93	21348
DDA 74	0.13	468

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 75	2.12	7632

EROSION CONTROL PLAN
STA. 485+00 TO STA. 500+00

PREPARED BY	JDQ	DATE 3/17/2014
CHECKED BY	JDQ	DATE 3/17/2014
APPROVED BY		DATE

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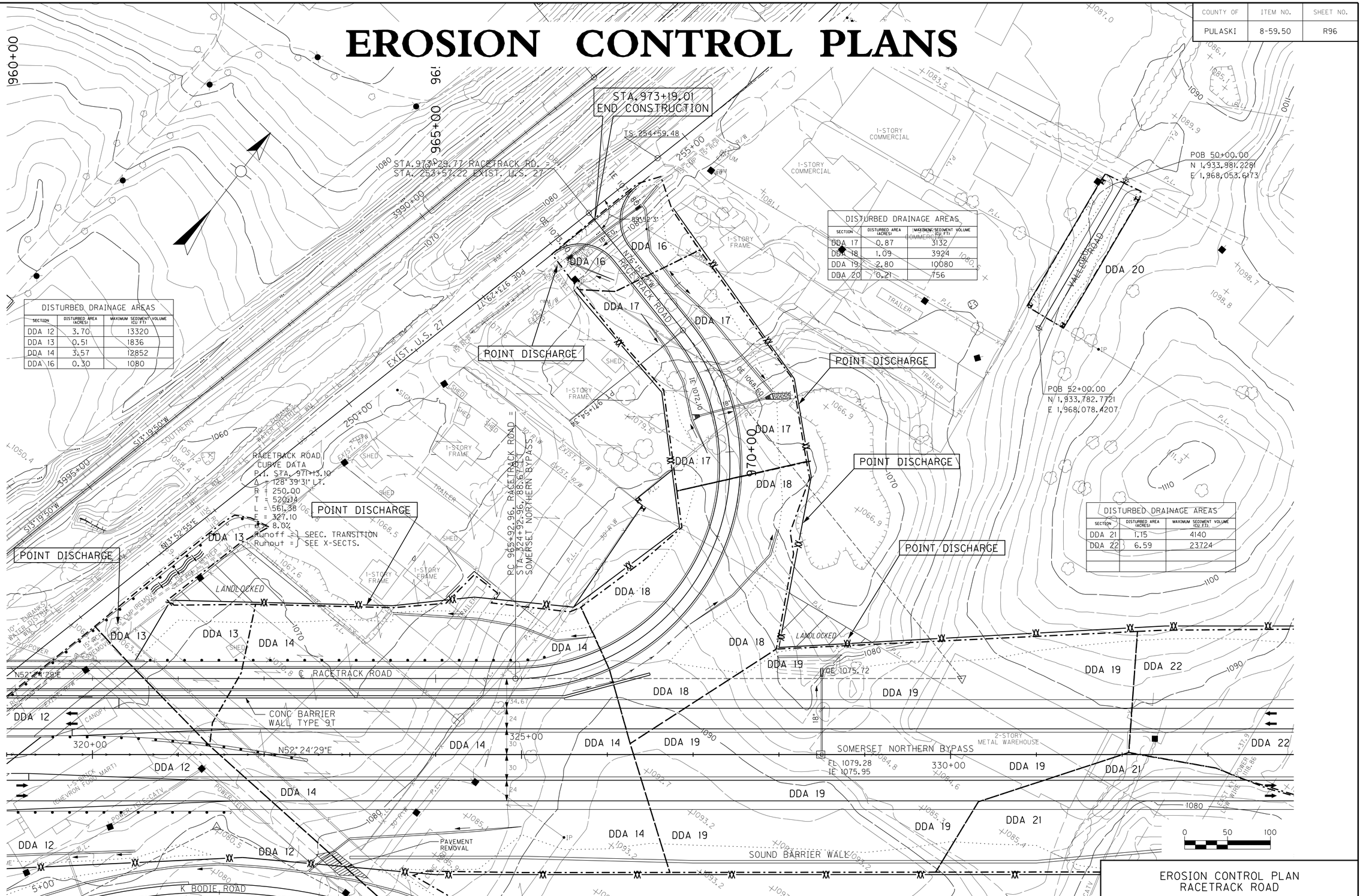
Cell Name: sp
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R96



DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 12	3.70	13320
DDA 13	0.51	1836
DDA 14	3.57	12852
DDA 16	0.30	1080

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 17	0.87	3132
DDA 18	1.09	3924
DDA 19	2.80	10080
DDA 20	0.21	756

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 21	1.15	4140
DDA 22	6.59	23724

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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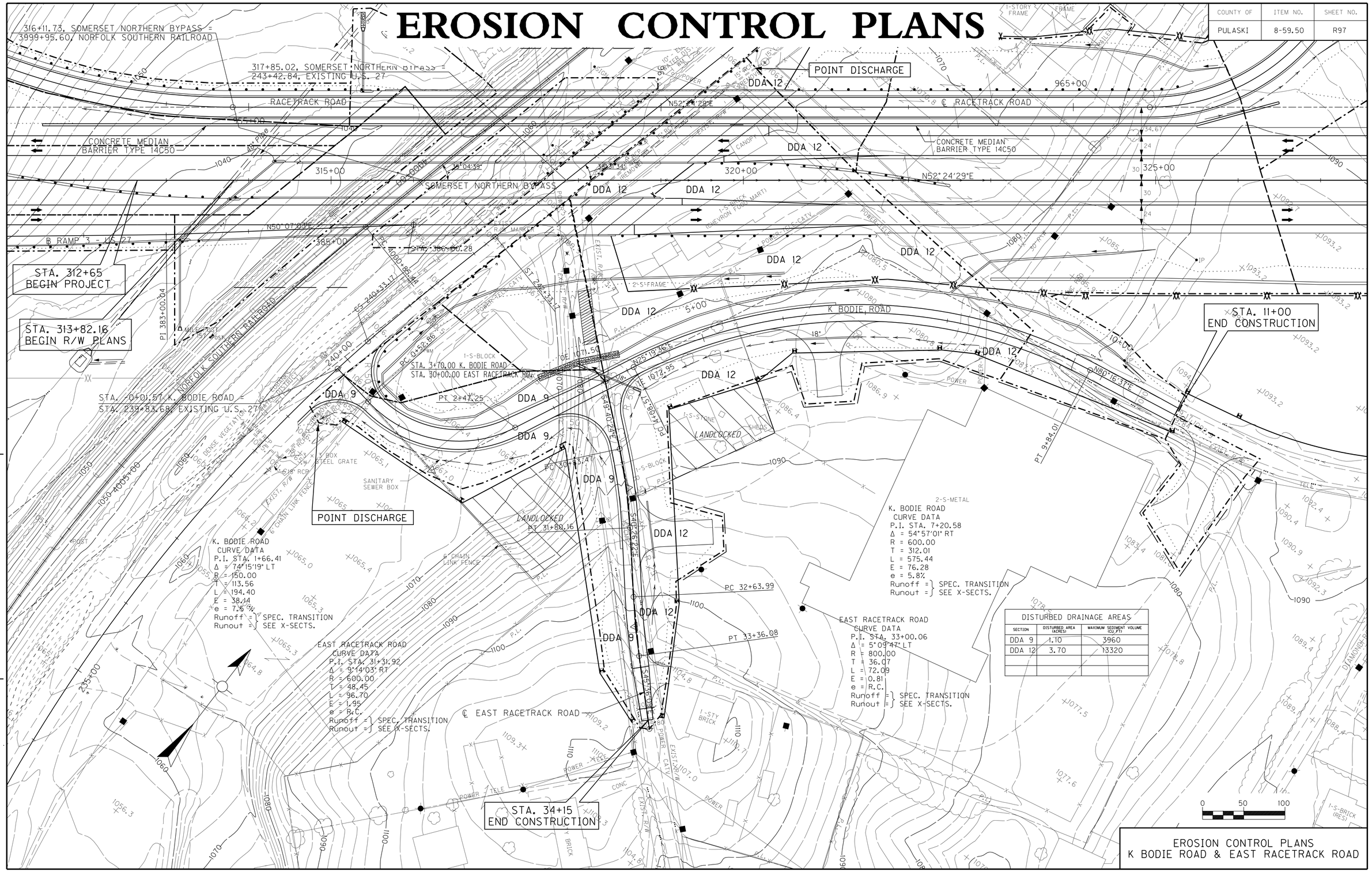
Cell Name: sp
3/17/2014

EROSION CONTROL PLAN
RACETRACK ROAD

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R97



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU.FT)
DDA 9	1.10	3960
DDA 12	3.70	13320

PREPARED BY	JDO	DATE	3/17/2014
CHECKED BY	JDO	DATE	3/17/2014
APPROVED BY		DATE	

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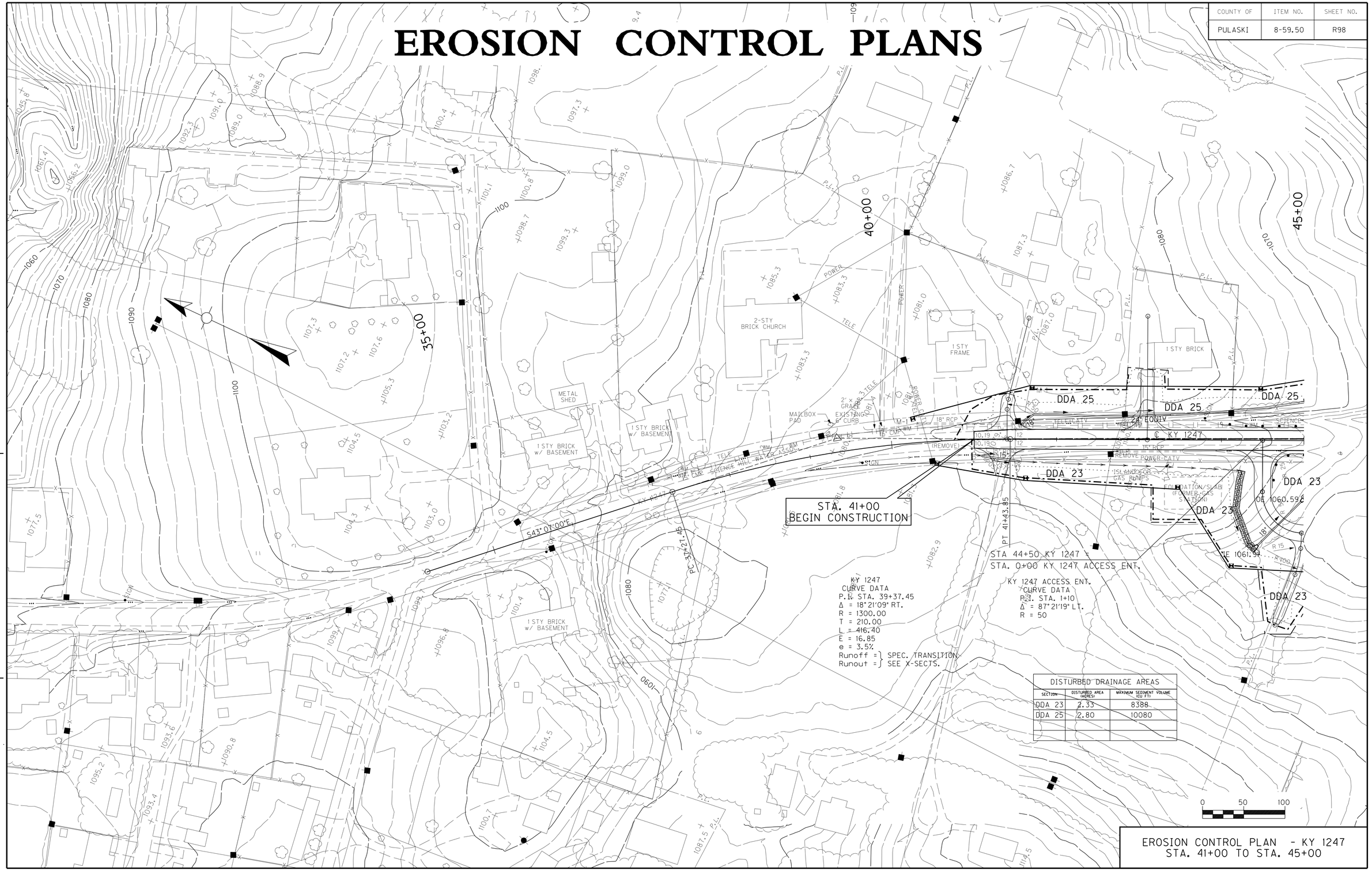
Cell Name: sp
3/17/2014

EROSION CONTROL PLANS
K BODIE ROAD & EAST RACETRACK ROAD

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R98



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU YT)
DDA 23	2.33	8388
DDA 25	2.80	10080

EROSION CONTROL PLAN - KY 1247
STA. 41+00 TO STA. 45+00

PREPARED BY	JDQ	DATE 3/17/2014
CHECKED BY	JDQ	DATE 3/17/2014
APPROVED BY		DATE

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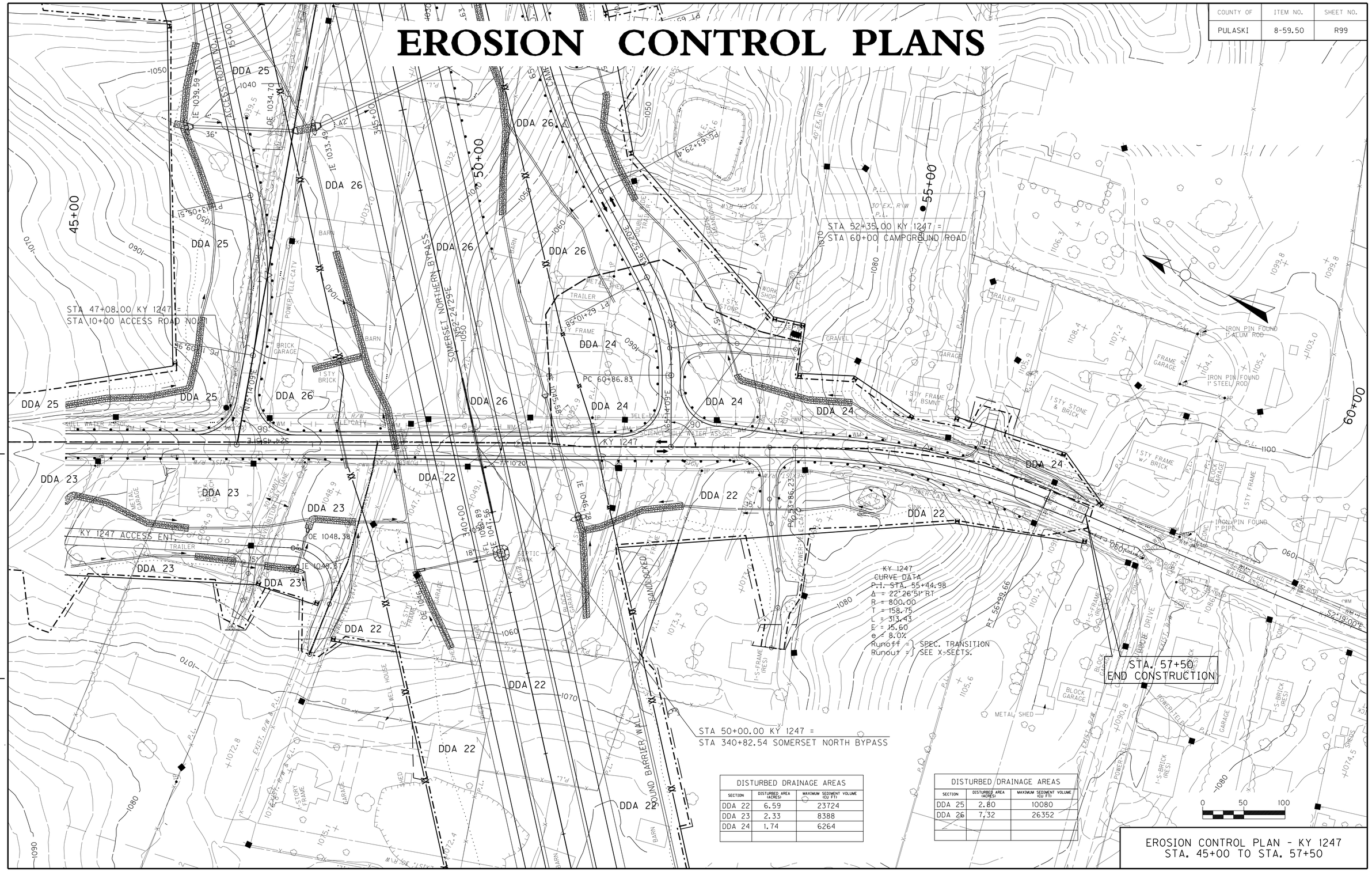
Cell Name: sp
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R99



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 22	6.59	23724
DDA 23	2.33	8388
DDA 24	1.74	6264

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 25	2.80	10080
DDA 26	7.32	26352

EROSION CONTROL PLAN - KY 1247
STA. 45+00 TO STA. 57+50

PREPARED BY	JDQ	DATE 3/17/2014
CHECKED BY	JDQ	DATE 3/17/2014
APPROVED BY		DATE

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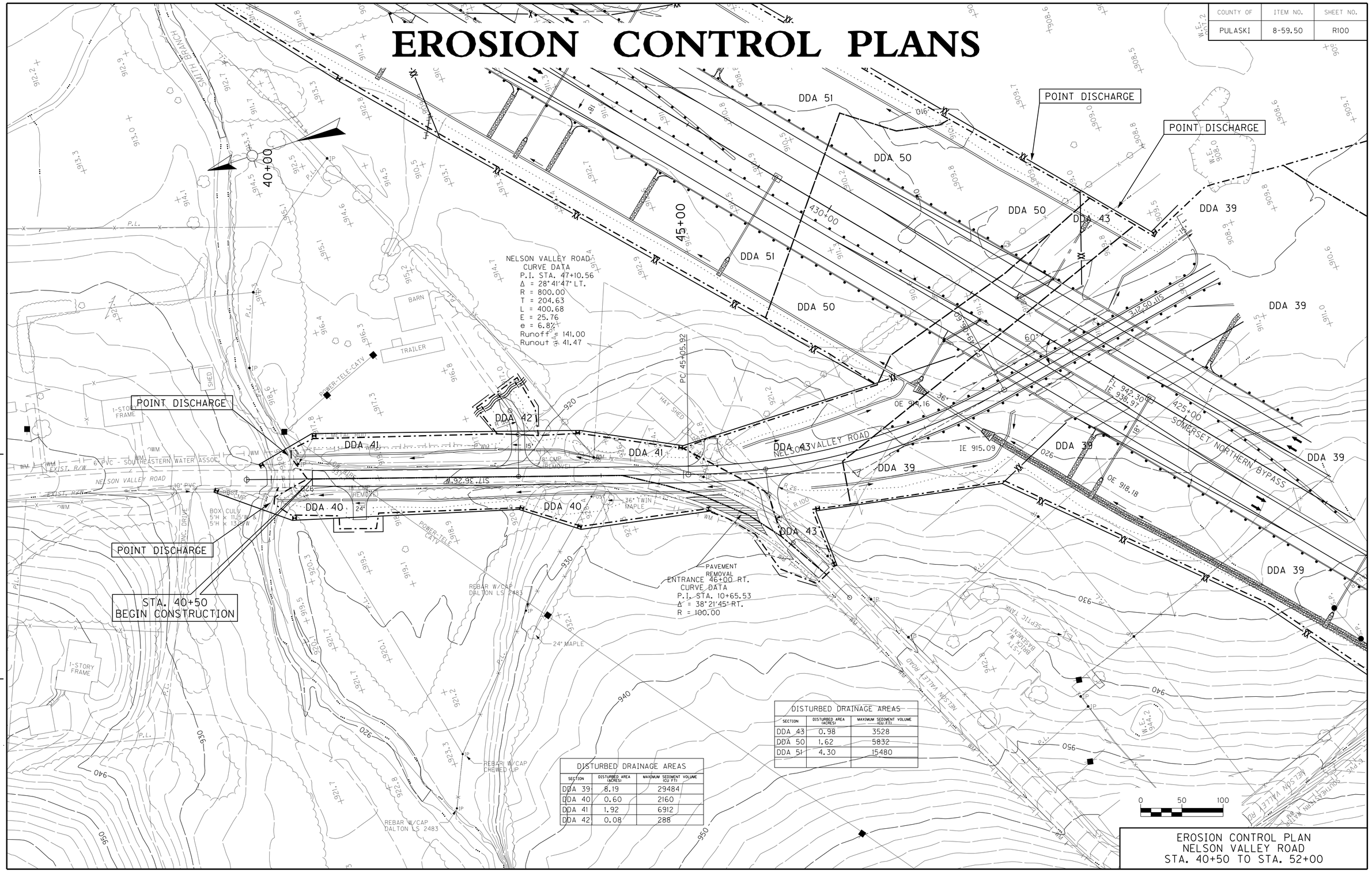
Cell Name: sp
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R100



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 43	0.98	3528
DDA 50	1.62	5832
DDA 51	4.30	15480

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 39	8.19	29484
DDA 40	0.60	2160
DDA 41	1.92	6912
DDA 42	0.08	288

EROSION CONTROL PLAN
NELSON VALLEY ROAD
STA. 40+50 TO STA. 52+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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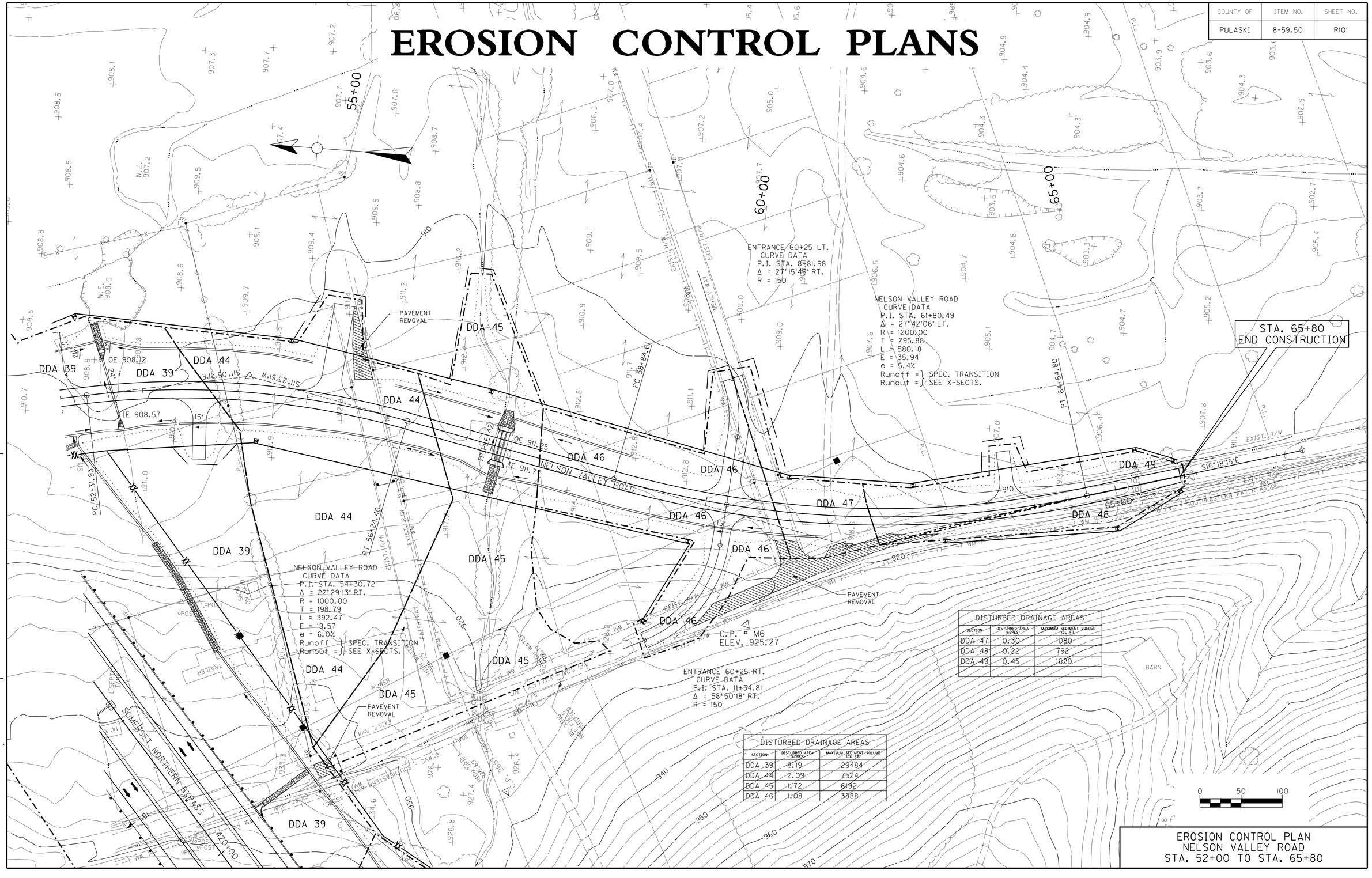
Cell Name: sp
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R101



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 47	0.30	1080
DDA 48	0.22	792
DDA 49	0.45	1620

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 39	8.19	29484
DDA 44	2.09	7524
DDA 45	1.72	6192
DDA 46	1.08	3888

EROSION CONTROL PLAN
NELSON VALLEY ROAD
STA. 52+00 TO STA. 65+80

PREPARED BY DATE
CHECKED BY DATE
APPROVED BY DATE

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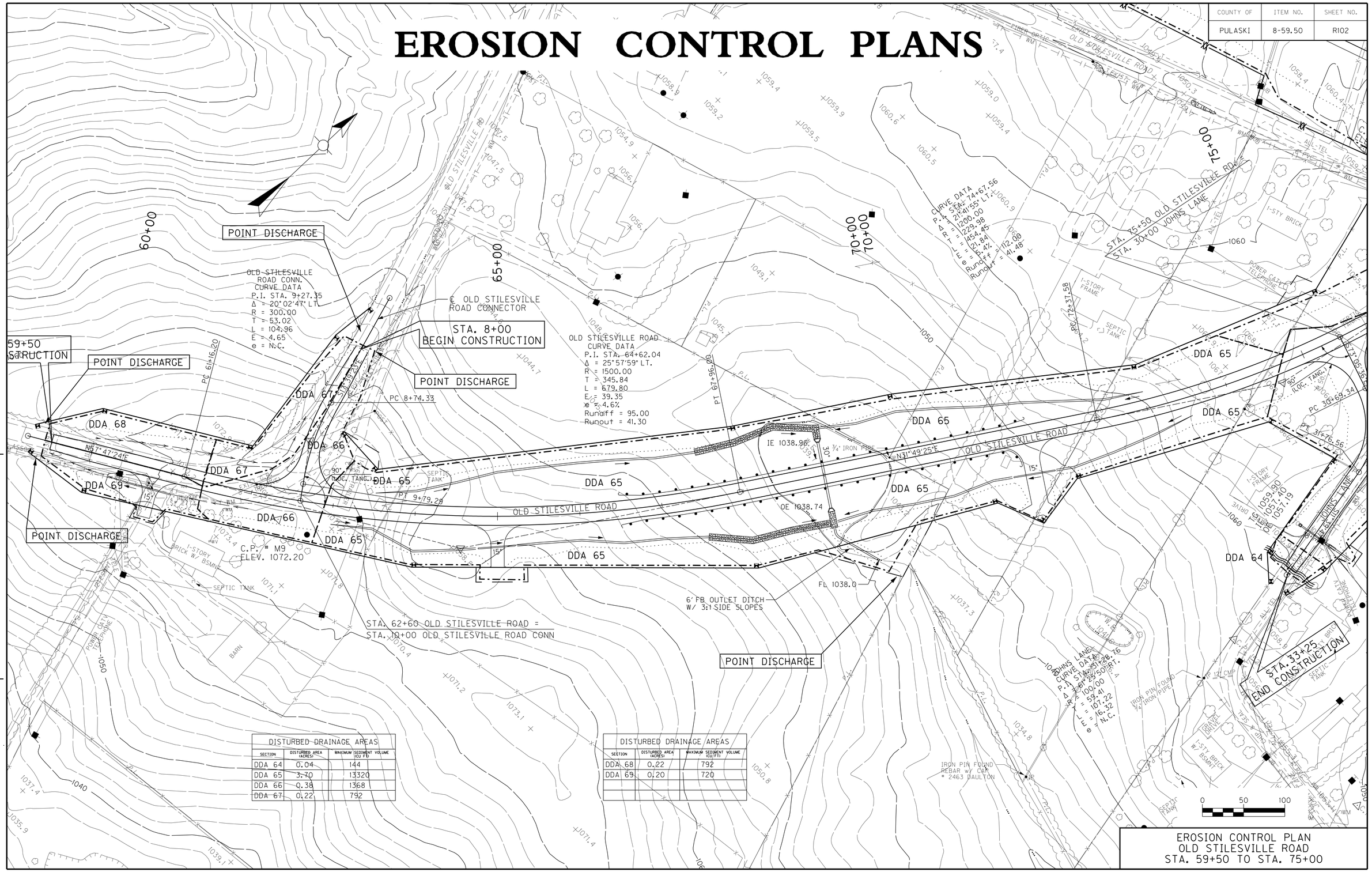
3/17/2014

EROSION CONTROL PLANS

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R102



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 64	0.04	144
DDA 65	3.70	13320
DDA 66	0.38	1368
DDA 67	0.22	792

DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 68	0.22	792
DDA 69	0.20	720

EROSION CONTROL PLAN
OLD STILESVILLE ROAD
STA. 59+50 TO STA. 75+00

PREPARED BY DATE
CHECKED BY DATE
APPROVED BY DATE

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3/17/2014

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R103

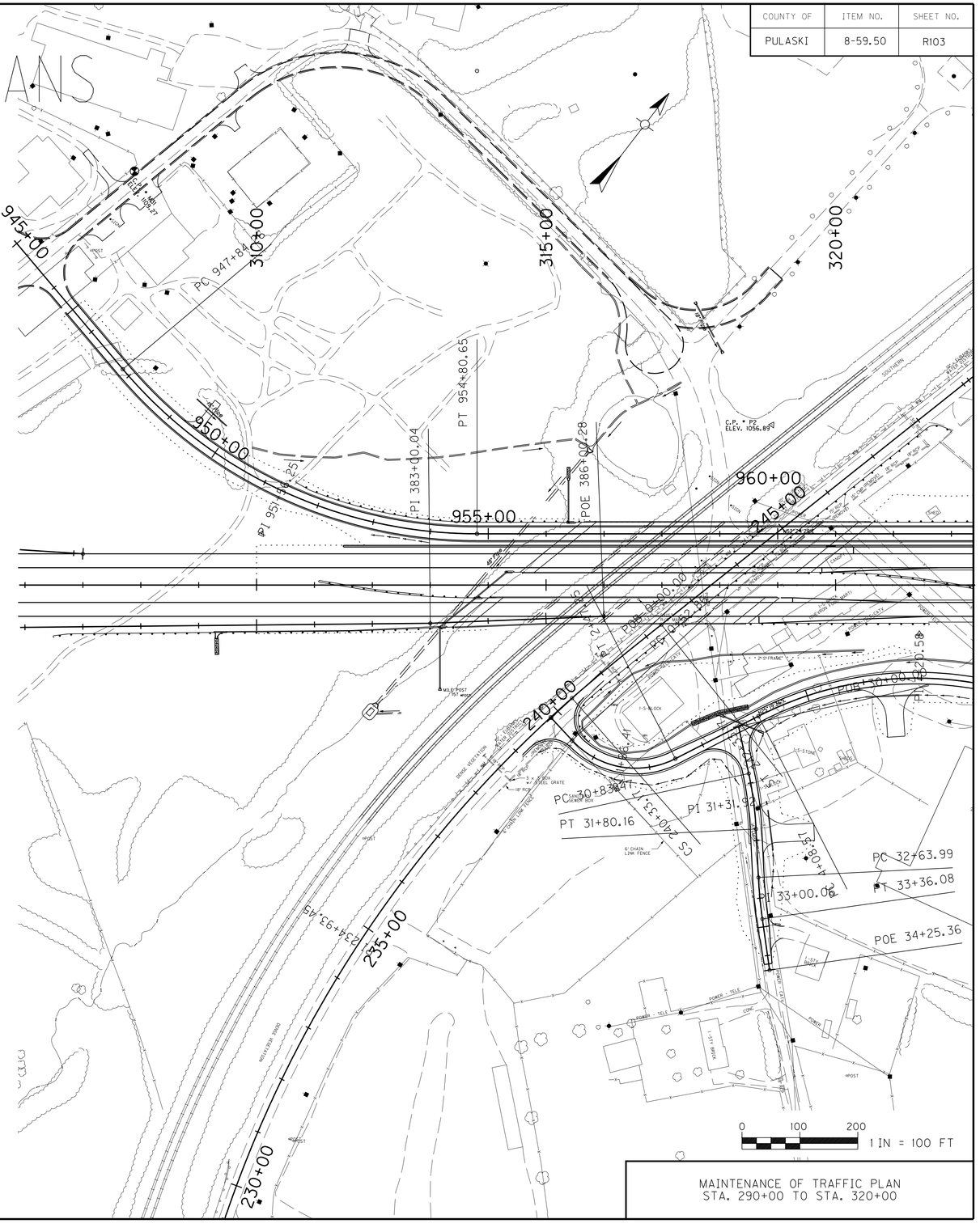
MAINTENANCE OF TRAFFIC PLANS

SPECIAL NOTES

1. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid for at the lump sum bid price for "Maintain and Control Traffic," as set forth in the current Standard Specifications for Road and Bridge Construction, unless otherwise provided for in these notes.

2. Temporary and existing markings within the limits of this project that do not conform to the traffic operation in use shall be removed or covered with an approved material to the satisfaction of the Engineer. The cost shall be incidental to the unit price for "Maintain and Control Traffic".

3. The Contractor shall notify local Police and Sheriff's Departments, the Ambulance Service, the Pulaski County School Board, the City of Somerset Fire Department, and the volunteer Fire Departments, in all jurisdictions affected by this project, two weeks prior to road closures.



MAINTENANCE OF TRAFFIC PLAN
STA. 290+00 TO STA. 320+00

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CHECKED BY _____ DATE _____
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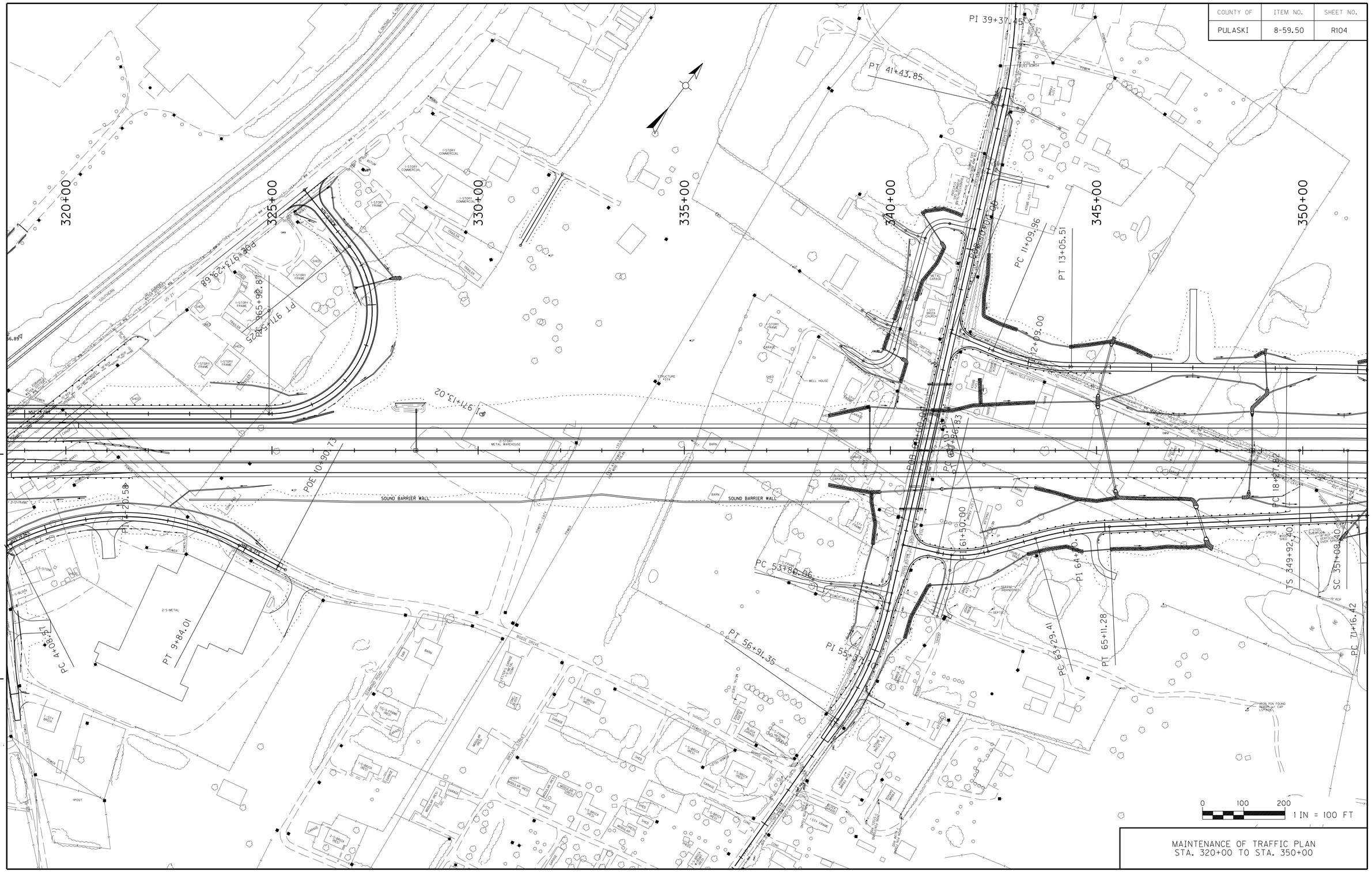
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R104



MAINTENANCE OF TRAFFIC PLAN
STA. 320+00 TO STA. 350+00

PREPARED BY ____ DATE ____
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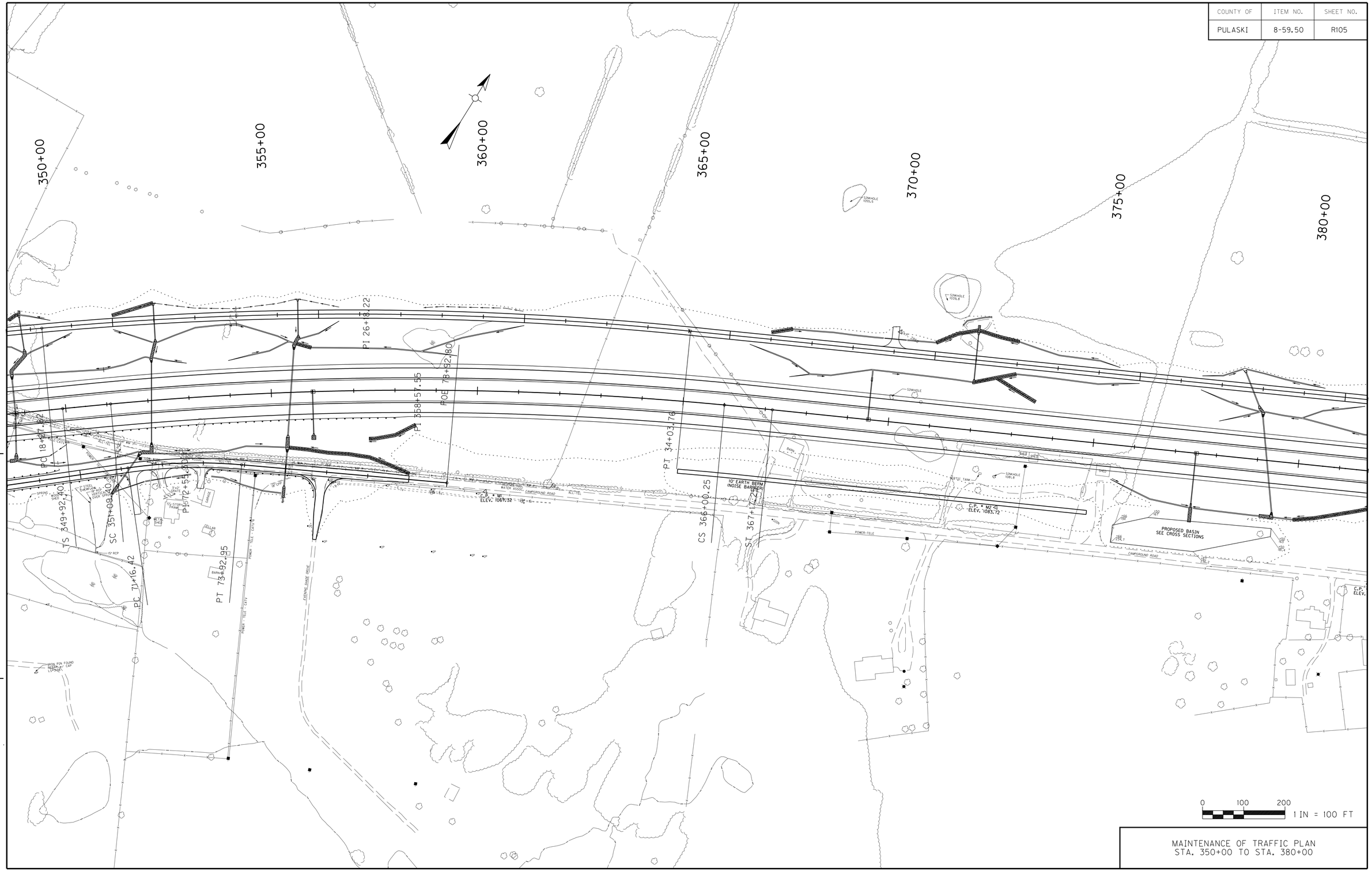
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R105



MAINTENANCE OF TRAFFIC PLAN
STA. 350+00 TO STA. 380+00

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APPROVED BY _____ DATE _____

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COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R106

PREPARED BY ________ DATE ________
CHECKED BY ________ DATE ________
APPROVED BY ________ DATE ________

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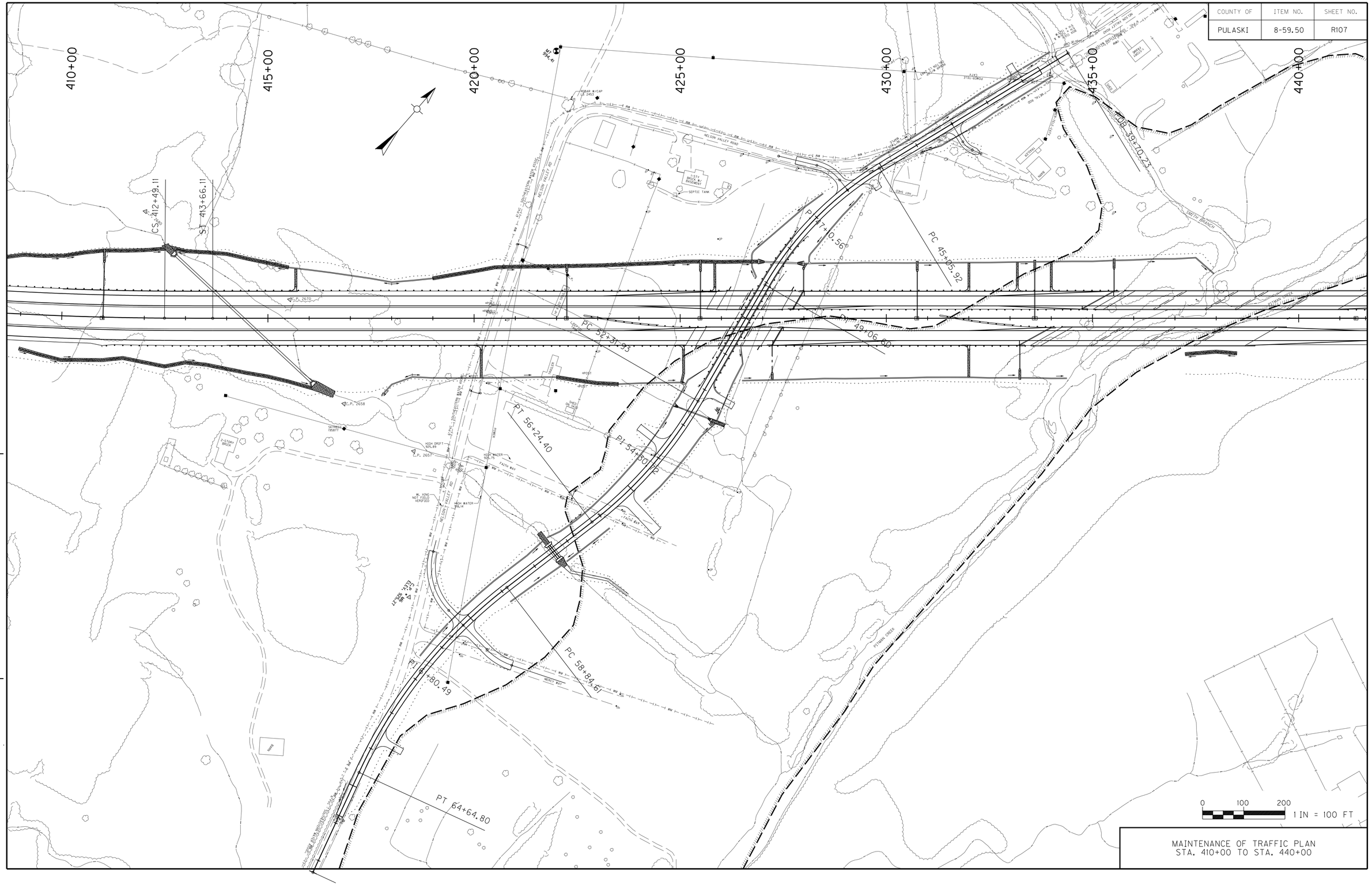
MAINTENANCE OF TRAFFIC PLAN
STA. 380+00 TO STA. 410+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R107



MAINTENANCE OF TRAFFIC PLAN
STA. 410+00 TO STA. 440+00

PREPARED BY _____ DATE _____
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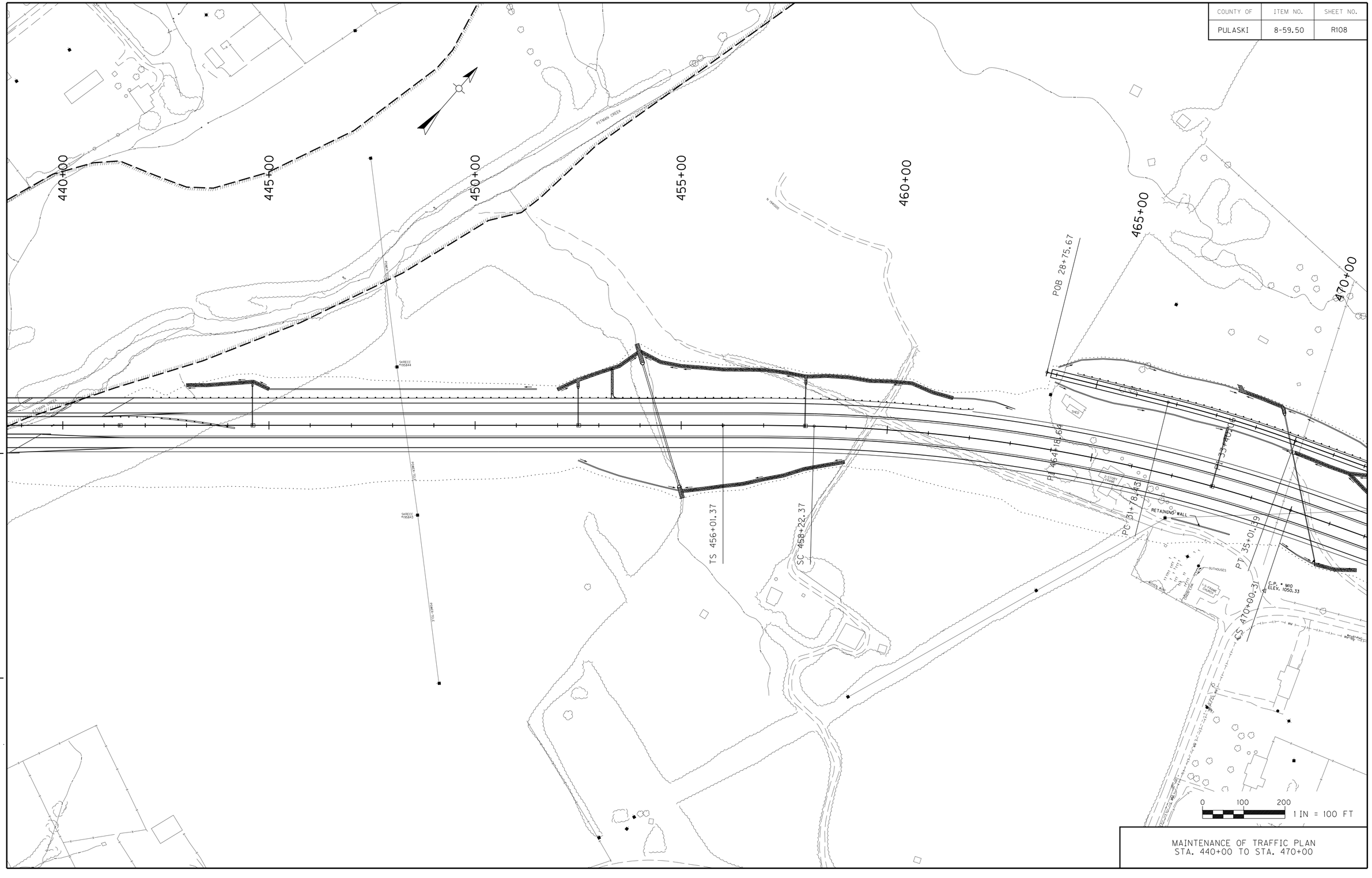
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R108



MAINTENANCE OF TRAFFIC PLAN
STA. 440+00 TO STA. 470+00

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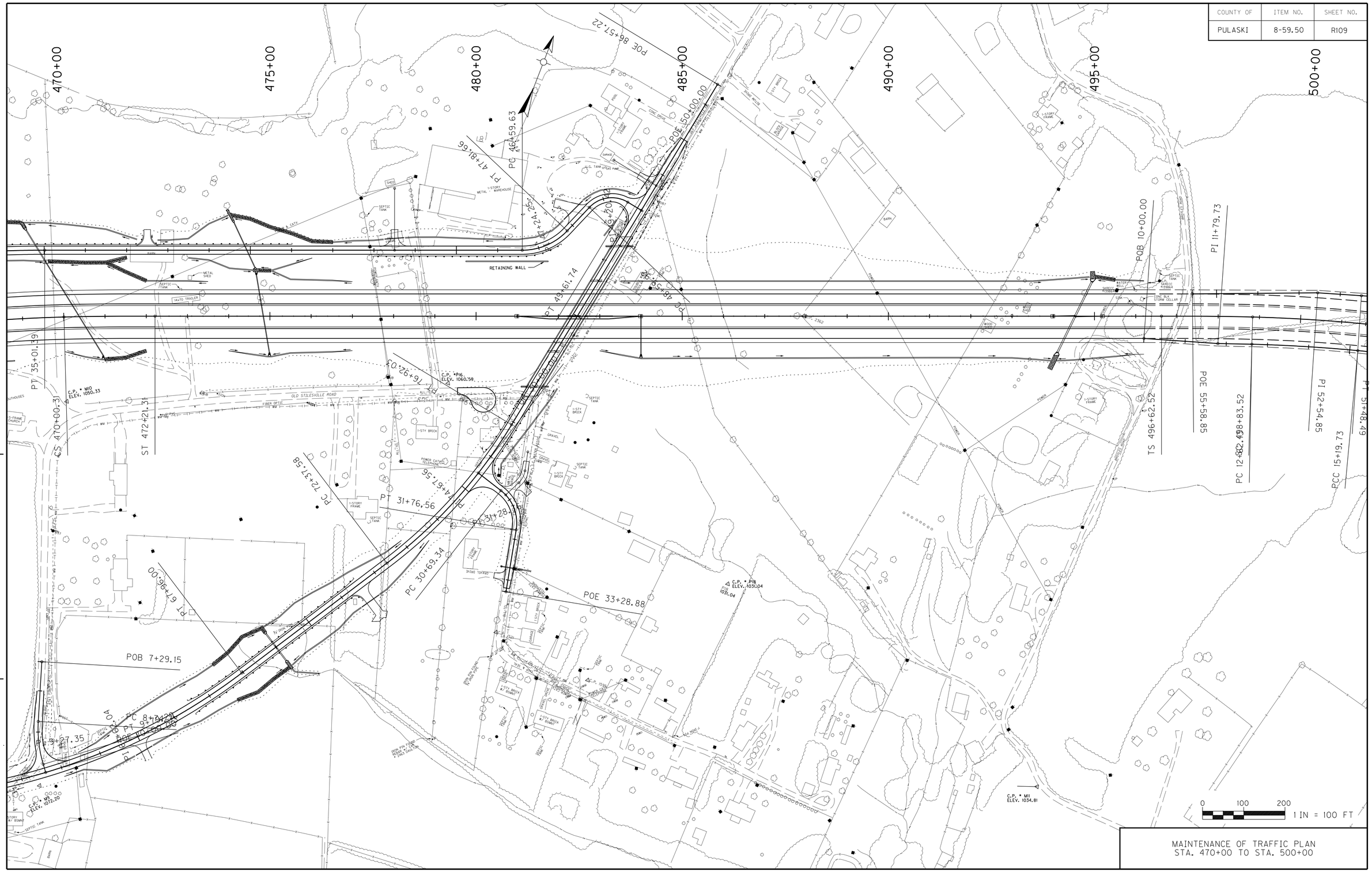
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R109



MAINTENANCE OF TRAFFIC PLAN
STA. 470+00 TO STA. 500+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
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GEOTECHNICAL SYMBOL SHEET

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R110

Somerset Northern Bypass

AASHTO Classification of Soils and Soil-Aggregate Mixtures

General Classification	Granular Materials (35% or less passing 0.075 mm)							Silt-Clay Materials (More than 35% passing 0.075 mm)			
Group Classification	A-1		A-3	A-2				A-4	A-5	A-6	A-7
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6
Sieve Analyses, percent Passing											
2.00 mm (No. 10)	50 max	---	---	---	---	---	---	---	---	---	---
0.425 mm (No. 40)	30 max	50 max	51 min	---	---	---	---	---	---	---	---
0.075 mm (No. 200)	15 max	25 max	10 max	35 max	35 max	35 max	35 max	36 min	36 min	36 min	36 min
Characteristics of Fraction Passing 0.425 mm (No. 40)											
Liquid Limit	---		---	40 max	41 min	40 max	41 min	40 max	41 min	40 max	41 min
Plasticity Index	6 max		N.P.	10 max	10 max	11 min	11 min	10 max	10 max	11 min	11 min

Unified Soil Classifications

MAJOR DIVISIONS		SYMBOL	NAME
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels or gravel-sand mixtures, little or no fines.
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
		GM	Silty gravels, gravel-sand-silt mixtures.
		GC	Clayey gravels, gravel-sand-clay mixtures.
	SAND AND SANDY SOILS	SW	Well-graded sands or gravelly sands, little or no fines.
		SP	Poorly graded sands or gravelly sands, little or no fines.
		SM	Silty sands, sand-silt mixtures.
		SC	Clayey sands, sand-clay mixtures.
FINE GRAINED SOILS	SILTS AND CLAYS LL IS LESS THAN 50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
	SILTS AND CLAYS LL IS GREATER THAN 50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
		CH	Inorganic clays of high plasticity, fat clays.
UNCLASSIFIED MATERIAL		NONE	Non-classified material (i.e. overburden, pavement, slag, etc.) Include visual description.

AI	Activity Index
LI	Liquidity Index
S+C	Silt + Clay (% finer than No. 200 Sieve)
○	Rockline Soundings
	Disturbed Sample Boring
	Undisturbed Sample Boring
	Undisturbed Sample Boring & Rock Core
●	Rock Core
□	Open Face Log
	Slope Inclinometer Installation typical applications:
OW	Observation Well
→	Approximate Footing Elevation
▼ (Date)	Water Elevation
VS (psf)	Field Vane Shear Strength
■	Thin-walled Tube Sample
<	Standard Penetration Test Sample
N	Penetration Resistance
Qu (psf)	Unconfined Compressive Strength
UU (psf)	Unconsolidated Undrained Triaxial Strength
w(%)	Moisture Content
KY RQD	Rock Quality Designation (Kentucky Method)
STD RQD	Rock Quality Designation (Standard Method)
SDI (JS)	Slake Durability Index (Jar Slake Test)
REC	Core Recovery
ϕ	Angle of Internal Friction (Total Stress)
$\overline{\phi}$	Angle of Internal Friction (Effective Stress)
c (psf)	Cohesion (Total Stress)
$\overline{c}$ (psf)	Cohesion (Effective Stress)
γ (psf)	Total Unit Weight
RDZ	Rock Disintegration Zone
OB	Overburden Bench
IB	Intermediate Bench
R	Refusal
NR	Refusal Not Encountered

LIMESTONE

SANDSTONE

DURABLE SHALE (SDI $\geq$ 95)

NONDURABLE SHALE (SDI < 95)

COAL

TALUS, MINE WASTE, FILL MATERIAL, BOULDERS, & ETC.

GRANULAR EMBANKMENT

STRUCTURE GRANULAR BACKFILL

SLOPE PROTECTION

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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GEOTECHNICAL NOTES

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	RIII

Somerset Northern Bypass

1. Clearing and grubbing of embankment areas shall be completed in accordance with Section 202 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

2. Removal of existing structures and other obstructions shall be completed in accordance with Section 203 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

3. Procedures shall be performed as required to control erosion and water pollution in accordance with Sections 212 and 213 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

4. All water wells and/or cisterns within the limits of construction, whether shown on the plans or not, shall be plugged in accordance with Section 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

5. All catch basins and manholes shall be filled and capped and all septic tanks shall be filled in accordance with Section 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

6. An existing gas station was observed within the proposed mainline fill limits between approximate Stations 318+50 and 321+50. Prior to embankment construction, all petroleum storage tanks and product lines, whether shown on the plans or not, shall be plugged and/or removed and any contaminated soils shall be removed in accordance with Sections 203 and 708 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction and applicable state and federal regulations.

7. All channel changes and special ditches shall be constructed prior to placement of any embankment materials adjacent to them in accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Materials excavated from these areas may be utilized in construction of the embankments, but may require aeration to the proper moisture contents prior to compaction operations. No extra payment shall be permitted for re-handling, hauling, stockpiling and/or manipulating these materials.

8. In accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, the moisture content of embankment and subgrade materials shall not vary from the optimum moisture content, as determined by KM 64-511, by more than plus or minus two percent. This moisture content requirement shall have equal weight with the density requirement when determining the acceptability of embankment or subgrade construction. Refer to the family of curves for moisture-density relationships.

9. All soils, whether from roadway excavation or borrow, may require manipulation to obtain proper moisture contents prior to compaction. Direct payment shall not be permitted for re-handling, hauling, stockpiling and/or manipulating soils.

10. The Contractor shall conduct grading operations in such a manner that soil from roadway excavation be stockpiled separately or otherwise manipulated so that ample quantities are available for a chemically stabilized roadbed meeting specifications in Section 208 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Remnant layers of limestone and chert were encountered during drilling operations in the soil overburden. These zones may require special handling during construction by the Contractor so that the proposed soil subgrade materials are essentially free of remnants, boulders and large rock fragments, which if included in the subgrade might create less uniform and undesirable conditions. No extra payment shall be permitted for re-handling, hauling, stockpiling, and/or manipulating these materials.

11. The Contractor shall conduct grading operations in such a manner that limestone obtained from roadway excavation be stockpiled separately or otherwise manipulated so that ample quantities are available for those areas requiring said material. No direct payment will be allowed for such necessary manipulation as stockpiling, double handling the material, and/or hauling. Limestone shall not be wasted unless prior approval is obtained from the Engineer.

12. The Contractor is responsible for conducting any operations necessary to excavate the cut areas to the required typical sections. The cost of these operations shall be incidental to the earthwork.

13. Additional stripping and/or undercutting may be required at the following approximate locations, and at other locations, to provide for the removal of any deep organic materials present within pasture fields and other areas and as directed by the Engineer.

Approximate Station Limits

Mainline	K Bodie Road
378+00 to 388+00	6+50 to 8+50

14. As directed by the Engineer, adequate drainage shall be provided for any natural spring outlets encountered within construction limits, whether shown on the plans or not, by constructing spring box inlets in accordance with the Kentucky Department of Highways Standard Drawings RDX-010-04 or RDX-011-04. The outlet pipes should extend to the downstream embankment toes for discharging of water onto exterior grades.

15. As directed by the Engineer, existing bituminous concrete that is positioned within the limits of new roadway embankments, and positioned at a distance greater than three feet below proposed subgrade elevation, shall be scarified or broken until all cleavage planes are destroyed, or the pavement shall be removed entirely as conditions demand, in accordance with Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Subgrade materials remaining after removal of pavements may need to be stabilized prior to placement of new pavement sections, as directed by the Engineer.

Approximate Station Limits

Mainline	KY 1247
320+00 to 322+50	43+50 to 48+50
399+50 to 401+00	51+50 to 56+00
420+30 to 420+60	
Access Road No. 1	**KY 39**
10+90 to 13+50	89+50 to 94+50
	104+50 to 107+25
	114+25 to 115+75

16. As directed by the Engineer, existing bituminous concrete at the following approximate locations that is positioned less than three feet from proposed subgrade level shall be undercut a minimum of two feet beneath proposed subgrade level and backfilled with suitable subgrade material.

Approximate Station Limits

Mainline	K Bodie Road
346+50 to 350+50	8+60 to 10+00
KY 1247	**Campground Road**
42+00 to 43+50	73+25 to 74+00
56+00 to 56+50	77+25 to 78+50
Nelson Valley Road	**Old Stilesville Road**
40+50 to 43+25	82+00 to 83+25
KY 39	
88+75 to 89+50	107+25 to 108+50
94+50 to 97+00	112+25 to 114+25
103+50 to 104+50	115+75 to 116+75

17. Any saturated and soft subgrade soils encountered during subgrade preparation within new cuts shall be drained and stabilized using a 12-inch thick lift of non-erodible Granular Embankment meeting the requirements of Section 805 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Contrary to the specification in Section 805, the maximum size limit has been raised from two and a half (2.5) inches to four (4) inches. The coarse aggregate shall be wrapped (top and bottom) with Type IV Geotextile Fabric in accordance with Sections 214 and 843 of the current Standard Specifications. Additionally, a 4-inch diameter pipe underdrain system shall be installed within the coarse aggregate and daylighted on the outslope at appropriate locations to reduce the possibility of trapping water beneath the pavement subgrade.

The following intervals are provided only to aid in establishing quantities for coarse aggregate and geotextile fabric for bidding purposes. Actual areas requiring such stabilization may differ significantly from those listed herein.

Approximate Station Limits

Mainline	
325+50 to 330+00	483+00 to 486+00
358+75 to 364+00	534+25 to 536+00
369+90 to 376+00	
Access Road No. 1	**KY 39**	**KY 39 EB Exit Ramp**
18+50 to 20+25	85+00 to 88+50	18+00 to 23+50

18. Any saturated, soft, unstable areas encountered within embankment foundation limits and/or any other areas as directed by the Engineer shall be drained and stabilized using non-erodible Granular Embankment meeting the requirements of Section 805 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Contrary to the specification in Section 805, the maximum size limit has been raised from two and a half (2.5) inches to four (4) inches. A minimum 24-inch working platform shall be constructed in such areas. The coarse aggregate shall be underlain with Type III Geotextile Fabric in accordance with Sections 214 and 843 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

The following intervals are provided only to aid in establishing quantities for coarse aggregate and geotextile fabric for bidding purposes. Actual areas requiring such stabilization may differ significantly from those listed herein.

Approximate Station Limits

Mainline	Nelson Valley Road
399+50 to 401+00	46+00 to 54+00
423+00 to 435+00	

19. As directed by the Engineer, a two-foot thickness of non-erodible Granular Embankment, meeting the requirements of Section 805 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, shall be utilized to fill full-width and stabilize the existing drainage swales or stream channels located within the limits of the roadway embankment. Contrary to the specification in Section 805, the maximum size limit has been raised from two and a half (2.5) inches to four (4) inches. The granular embankment shall also be placed over all adjacent areas that may be soft and saturated. Positive drainage of these abandoned stream channels shall be maintained to reduce the possibility of trapping water within the roadway embankments.

For use in establishing bid quantities, it is recommended that the quantities of coarse aggregate be based on stabilizing the following approximate intervals:

Approximate Station Limits

Mainline	
341+25 to 345+40	453+85 to 454+95
348+25 to 349+50	485+25 to 486+75
378+50 to 380+50	511+50 to 513+25
413+00 to 416+35	519+90 to 522+00
Access Road No. 1	**Nelson Valley Road**	**Campground Road**
13+50 to 14+50	52+00 to 52+75	65+20 to 67+25
47+25 to 49+00		
KY 39 EB Entrance Ramp	**KY 39 EB Exit Ramp**	**KY 39 WB Entrance Ramp**
12+75 to 14+10	25+50 to 27+10	39+50 to 41+00

20. Embankment foundation benches/slope serrations and perforated pipe underdrains shall be constructed at the following approximate locations in accordance with Standard Drawings RGX-010 and RDP-006, project cross-sections, and as directed by the Engineer. The benches shall be constructed one at a time beginning with the lowest bench. Each bench shall be backfilled prior to the excavation of the next bench.

Approximate Station Limits

Mainline
404+25 to 409+75
468+25 to 469+75

21. Ponds were observed at the following approximate locations and are situated entirely or partially within embankment foundation limits. The ponds shall be drained and any soft and saturated material (estimated to be 2 feet) shall be removed and/or stabilized as directed by the Engineer prior to placement of the roadway embankment. For stabilization purposes, a sufficient thickness (estimated to be 3 feet) of limestone shot rock from roadway excavation shall be used. additional rock may be required to stabilize soft soils and to maintain positive drainage.

For quantity estimate purposes only, this shall include the following areas. Actual thickness and locations of rock material will be determined by the Engineer during construction. The cost of placing these materials shall be incidental to the earthwork.

Approximate Station Limits

Mainline	Old Stilesville Road
358+00 to 359+50, Left	68+20 to 70+00, Centerline
399+50 to 400+00, Right	
530+40 to 531+10, Centerline	

22. Conventional transverse benches shall be constructed and perforated pipe underdrains installed at the following approximate locations in accordance with Kentucky Department of Highways Standard Drawings RDP-005 and RDP-006, project cross-sections (as applicable), and as directed by the Engineer. Contrary to Standard Drawing RDP-006, transverse benches and perforated pipe underdrains shall be installed in both uphill and downhill transition areas between cuts and fills.

Approximate Station Limits

Mainline		
325+25	377+50	475+60
338+75	382+40	492+50
349+60	399+90	496+20
350+90	440+30	510+50
353+00	452+00	515+40
354+10	462+00	516+70
358+80	468+70	534+40
367+40	471+80	536+70
371+00	474+30	
K Bodie Road	**Racetrack Road**	**Campground Road**
3+20	971+10	71+90
6+70	973+00	73+00
	Access Road No. 1	
15+30	23+60	46+90
17+30	25+30	52+10
18+60	27+10	53+60
20+10	31+00	55+30
22+30	44+60	57+60
Access Road No. 2	**Old Stilesville Road**	**KY 39**
37+00	63+50	88+40
38+80	73+10	98+60
	76+50	103+20
		108+70
		111+20

KY 39 EB Exit Ramp	KY 39 WB Entrance Ramp	KY 39 WB Exit Ramp	Access Road No. 4
25+00	31+40	27+00	54+20
	38+90	28+50	
	42+30	30+30	
		32+00	

KENTUCKY DEPARTMENT OF HIGHWAYS
COUNTY OF
PULASKI

PROJECT NUMBERS

DATE BY PROJECT MANAGER

GEOTECHNICAL NOTES

PREPARED BY FULLER, MOSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE DEC., 2003
CHECKED BY DATE
APPROVED BY DATE

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GEOTECHNICAL NOTES

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R112

Somerset Northern Bypass

23. Perforated pipes for subgrade drainage shall be installed at vertical sags and at the upgrade ends of structures, in accordance with Kentucky Department of Highways Standard Drawing RDP-005 and/or as directed by the Engineer. Contrary to Standard Drawing RDP-005, such drains shall be installed even when a rock roadbed is being constructed. These drainage features shall be installed at the following approximate locations:

Approximate Station Limits

Mainline	KY 1247	Access Road No. 1
348+80	44+80	14+20
425+76	51+50	39+50
433+20		48+60
495+20		
520+30		

Nelson Valley Road	Access Road No. 2	Old Stilesville Road	KY 39
52+00	34+15	69+00	96+50
	46+00	81+70	105+00

KY 39 EB Entrance Ramp	KY 39 WB Exit Ramp	Access Road No. 3	Access Road No. 4
11+00	39+25	47+30	52+00

24. At the direction of the Engineer, any voids/caverns which are or become exposed in cut slopes, whether shown on the plans or not, should be backfilled a minimum distance of 20 feet from the face of the cut. Backstowing operations should commence immediately after encountering the openings. In order to fill the voids as completely as possible, pneumatic backstowing using No. 57 gradation crushed limestone should be required. The last five feet, horizontally, of backstowed material should contain five percent cement, by weight, and should be backstowed as a slurry mix. This will help provide stability of the backstowed material at the face of the cut. Positive drainage of the voids/caverns should be maintained through the use of Schedule 40, eight-inch PVC pipe underdrains, surface ditches and/or other suitable drainage facilities. Drainage pipes should be installed before backstowing the last ten feet.

Pipes and other material used for drainage shall be paid for at the unit bid price for those items. Pneumatic backstowing or other special equipment shall be paid for at the unit bid price per ton of backstowed material.

25. The sinkholes and/or solution cavities outlined below will be used for drainage purposes. The mitigation procedures are shown on the plans.

Approximate Center of Feature Station and Offset

Mainline	KY 39
328+82, 331' Lt.	90+70, 130' Rt.
333+08, 242' Rt.	106+40, 95' Lt.
369+22, 60' Lt.	111+00, 85' Lt.
379+40, 110' Rt.	111+95, 85' Lt.
392+25, 200' Lt.	112+32, 246' Lt.
406+05, 215' Lt.	

KY 1247	Access Road No. 4
54+90, 60' Rt.	53+00, 70' Lt.
	55+10, 105' Lt.

Access Road No. 1
40+40, 155' Lt.

26. All open sinkholes and/or solution cavities within the limits of construction, whether shown on the plans or not, that are not used for drainage purposes, shall be filled and/or capped in accordance with Section 215 of the current edition Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Sinkholes/solution features that are located within the limits of construction and are not to be used for drainage were noted at the following approximate locations.

Approximate Center of Feature Station and Offset

Mainline
372+70, 108' Rt.
400+75, 40' Rt.
529+45, 65' Rt.

KY 39
113+95, 55' Rt.

27. The enclosed drainage basins outlined below will not be used for drainage and will be completely or partially covered by roadway embankment. Open throats were not identified within the referenced depressions during the exploration. In the event that the soils within these depressions are soft and/or saturated at the time of construction, the area should be stabilized as outlined in Note No. 18 and as directed by the Engineer. Any ponded water shall be drained prior to stabilization. No special treatment other than normal stripping is recommended if construction takes place at a time in which dry foundation conditions exist and normal embankment construction can take place.

Approximate Center of Feature Station and Offset

KY 1247
51+10, 35' Lt.

28. The following locations listed at the left-hand side below were identified in Geotechnical Note 25 as sinkholes or features exhibiting karst activity that will receive drainage. Because each of these features are located within an enclosed drainage basin which will be partially covered by new roadway embankment, the lower two feet shall be constructed suing non-erodible Granular Embankment meeting the requirements of Section 805 of the current Kentucky Department of Highways standard Specifications for Road and Bridge Construction. Contrary to the specification in Section 805, the maximum size limit has been raised from two and a half (2.5) inches to four (4) inches. The coarse aggregate shall be wrapped (top and bottom) with Type IV Geotextile Fabric in accordance with Sections 214 and 843 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

The following intervals listed to the right of the center of the karst feature are provided only to aid in establishing quantities for coarse aggregate and Geotextile fabric for bidding purposes. Actual areas requiring such stabilization may differ significantly from those listed herein.

Approximate Center of Karst Feature Station and Offset	Approximate Station Limits
Mainline	Mainline
379+40, 110' Rt.	379+00 to 380+25
KY 1247	KY 1247
54+90, 60' Rt.	54+25 to 55+25
KY 39	KY 39
90+70, 130' Rt.	90+00 to 91+25
106+40, 95' Lt.	105+75 to 107+50

29. If other sinkholes are encountered during construction, the Contractor shall contact the KYTC Geotechnical Branch for mitigation procedures.

30. Because of high water concerns near Pitman Creek, Cyclopean Stone rip-rap conforming to Section 805 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction shall be utilized to construct the outer portions of the proposed roadway embankments within the following approximate station limits.

Approximate Station Limits

Mainline
426+90 to 436+00, Left and Right

The riprap shall used to construct the outer portion of both the left and right side slopes of the mainline embankment and shall wrap around the face of the back-station approach slope for the mainline crossing over Pitman Creek and the ahead-station spill-through slope for the mainline crossing over Nelson Valley Road. A minimum 3-foot layer of riprap shall be placed as an integral part of the embankment, and not as an additional thickness on the outside face of final embankment geometries. The riprap shall extend from the toes of the embankments upwardly to elevation 917.9 feet, approximately one foot above the 100-year high water elevation of 916.9 feet. The size and thicknesses of riprap shall be designed for applicable flood flow velocities. The riprap shall be placed in general accordance with Section 703 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, and as directed by the Engineer.

Type I Geotextile Fabric in accordance with Sections 214 and 843 of the current Standard Specifications for Road and Bridge Construction shall be placed on the ground surface and along the faces of all embankment slopes prior to placing riprap. The fabric shall be overlapped across the top of the riprap at elevation 917.9 feet prior to placing additional embankment materials on and above the riprap.

Bridge Structures

31. Settlement analyses have been performed at the following locations in order to estimate the amount of settlement of the foundation soils that will occur as a result of the construction of the planned approach embankments. The waiting period outlined in the table below corresponds to the estimated time required for primary consolidation (90 percent of estimated consolidation) of the foundation soils to occur.

Approach Embankment	Estimated Amount of Settlement (inches)	Estimated Minimum Waiting Period (days)
Back-Station Approach Mainline over US 27 and the Norfolk-Southern Railroad	4.5	57
Ahead-Station Approach Mainline over US 27 and the Norfolk-Southern Railroad	6.0	309
Back-Station Approach Mainline over Nelson Valley Road	5.0	27
Back-Station Approach Mainline over Pitman Creek	2.0	7
Ahead-Station Approach Mainline over KY 39	13.5	76
Back-Station Approach KY 1247 over Mainline	7.5	52

It is recommended that the all approach embankments be constructed to full-height, and the foundation soils be allowed to consolidate prior to installation of foundation elements at the abutment positions. If construction scheduling cannot accommodate an extensive waiting period, pile and/or drilled shaft foundation elements should be designed (i.e. oversize or increase number of piles) to withstand negative skin friction forces. Allowing settlement of the foundation soils to occur prior to foundation construction will reduce the potential for down-drag and lateral squeeze on foundation elements. In accordance with Section 108 of the current Standard Specifications for Road and Bridge Construction, the Contractor should plan construction activities so that the consolidation-waiting period will be concurrent with all other possible roadway grade and drain operations.

32. Settlement platforms shall be furnished and installed by the Contractor in accordance with Section 216 of the current Standard Specifications for Road and Bridge Construction and Standard Drawing RGX-015. The platforms shall be offset from the located centerline so as to be immediately outside of the guardrail or at the edge of the shoulder at the following approximate locations:

Approximate Stations

Mainline
320+55, Left Shoulder
425+30, Right Shoulder
427+05, Right Shoulder
434+00, Right Shoulder
519+95, Right Shoulder

KY 1247
48+25, Left Shoulder
48+30, Right Shoulder

The exact locations shall be determined by the Engineer and a representative of the Division of Materials, Geotechnical Branch. Settlement readings shall begin with an initial reading upon placement of the platform prior to beginning embankment construction. Readings shall continue periodically during and following completion of the subject embankments. The settlement platforms shall be left in place for future readings after the project is completed. Necessary forms for recording settlement measurements can be obtained from the Geotechnical Branch at the request of the Engineer. The Engineer will be responsible for reading and recording the settlement data. The Geotechnical Branch will be responsible for evaluation of the actual settlement data. Installation of the foundation units at the abutments shall not begin until the Geotechnical Branch has determined that an adequate percent of consolidation of the foundation soils has been achieved. The Contractor shall be responsible for replacing all damaged settlement platforms at no extra cost.

33. Settlement analyses indicate approximately six inches of settlement of the foundation soils beneath the approach embankment may occur at the planned location of the ahead-station integral end bent for the Somerset Northern Bypass over US 27 and Norfolk Southern Railroad Bridge. It is recommended that the ahead-station approach embankments be constructed to full-height, and the foundation soils be allowed to consolidate prior to installation of the foundation elements at the abutment locations. The approximate time required for consolidation of the foundation soils is as follows:

Percent Consolidation	Time Required (days)
25	19
50	72
75	177
90	309

If construction scheduling cannot accommodate an extensive waiting period, pile and/or drilled shaft foundation elements should be designed (i.e. oversize or increase number of piles) to withstand negative skin friction forces. Allowing settlement of the foundation soils to occur prior to foundation construction will reduce the potential for down-drag and lateral squeeze on foundation elements. In accordance with Section 108 of the current Standard Specifications for Road and Bridge Construction, the Contractor should plan construction activities so that the consolidation-waiting period will be concurrent with all other possible roadway grade and drain operations.

34. The bridge approach embankments shall include "pile cores" at all applicable substructure element locations to facilitate installation of the foundation systems. The core material shall be free of rock fragments larger than 4 inches maximum dimension, and any other obstructions which would interfere with foundation installation. Construction of the pile cores shall be in accordance with KYTC Special Provision No. 69, Standard Drawing Nos. RGX-100 and RGX-105, and Section 206 of the current Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.

KENTUCKY
DEPARTMENT OF HIGHWAYS
COUNTY OF
PULASKI

PROJECT NUMBERS

DATE BY PROJECT MANAGER

GEOTECHNICAL NOTES

PREPARED BY FULLER, MOSSBARGER, SCOTT AND MAY ENGINEERS, INC. DATE DEC. 2001
CHECKED BY DATE
APPROVED BY DATE

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COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R113

Somerset Northern Bypass

Field Drilling and Sampling was performed during May and June, 2003.

Detailed data and interpretation of subsurface conditions encountered in individual borings are shown on the soil profile. Soil and rock strata descriptions and indicated boundaries are based on engineering interpretation of available subsurface information obtained at selected locations, and may not necessarily reflect the actual variation in subsurface conditions between borings and samples.

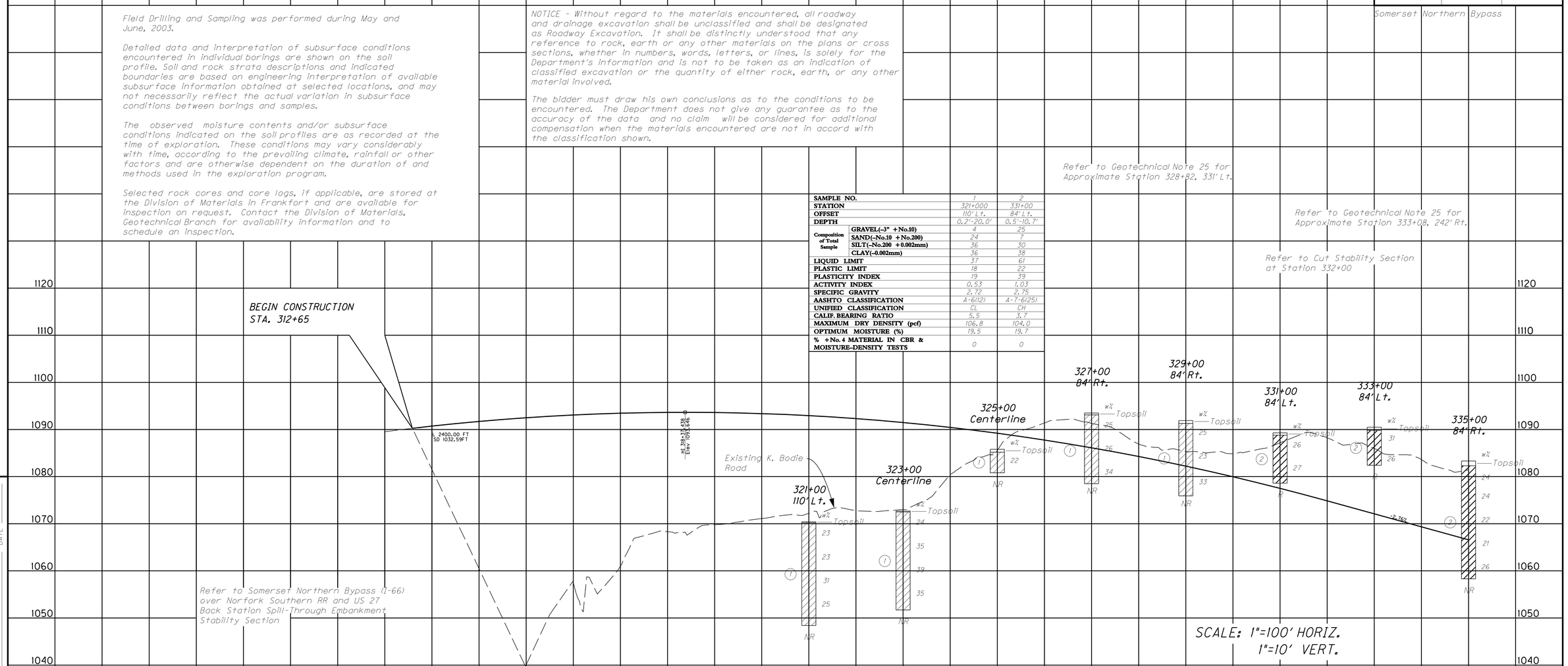
The observed moisture contents and/or subsurface conditions indicated on the soil profiles are as recorded at the time of exploration. These conditions may vary considerably with time, according to the prevailing climate, rainfall or other factors and are otherwise dependent on the duration of and methods used in the exploration program.

Selected rock cores and core logs, if applicable, are stored at the Division of Materials in Frankfort and are available for inspection on request. Contact the Division of Materials, Geotechnical Branch for availability information and to schedule an inspection.

NOTICE - Without regard to the materials encountered, all roadway and drainage excavation shall be unclassified and shall be designated as Roadway Excavation. It shall be distinctly understood that any reference to rock, earth or any other materials on the plans or cross sections, whether in numbers, words, letters, or lines, is solely for the Department's information and is not to be taken as an indication of classified excavation or the quantity of either rock, earth, or any other material involved.

The bidder must draw his own conclusions as to the conditions to be encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation when the materials encountered are not in accord with the classification shown.

SAMPLE NO.		1	2
STATION		321+000	331+00
OFFSET		110' Lt.	84' Lt.
DEPTH		0.2'-20.0'	0.5'-10.7'
Composition of Total Sample	GRAVEL(-3" +No.10)	4	25
	SAND(-No.10 +No.200)	24	7
	SILT(-No.200 +0.002mm)	36	30
	CLAY(-0.002mm)	36	38
LIQUID LIMIT		37	61
PLASTIC LIMIT		18	22
PLASTICITY INDEX		19	39
ACTIVITY INDEX		0.53	1.03
SPECIFIC GRAVITY		2.72	2.75
AASHTO CLASSIFICATION		A-6(12)	A-7-6(25)
UNIFIED CLASSIFICATION		CL	CH
CALIF. BEARING RATIO		5.5	3.7
MAXIMUM DRY DENSITY (pcf)		106.8	104.0
OPTIMUM MOISTURE (%)		19.5	19.7
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0



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CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

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KENTUCKY DEPARTMENT OF HIGHWAYS
COUNTY OF
PULASKI

PROJECT NUMBERS

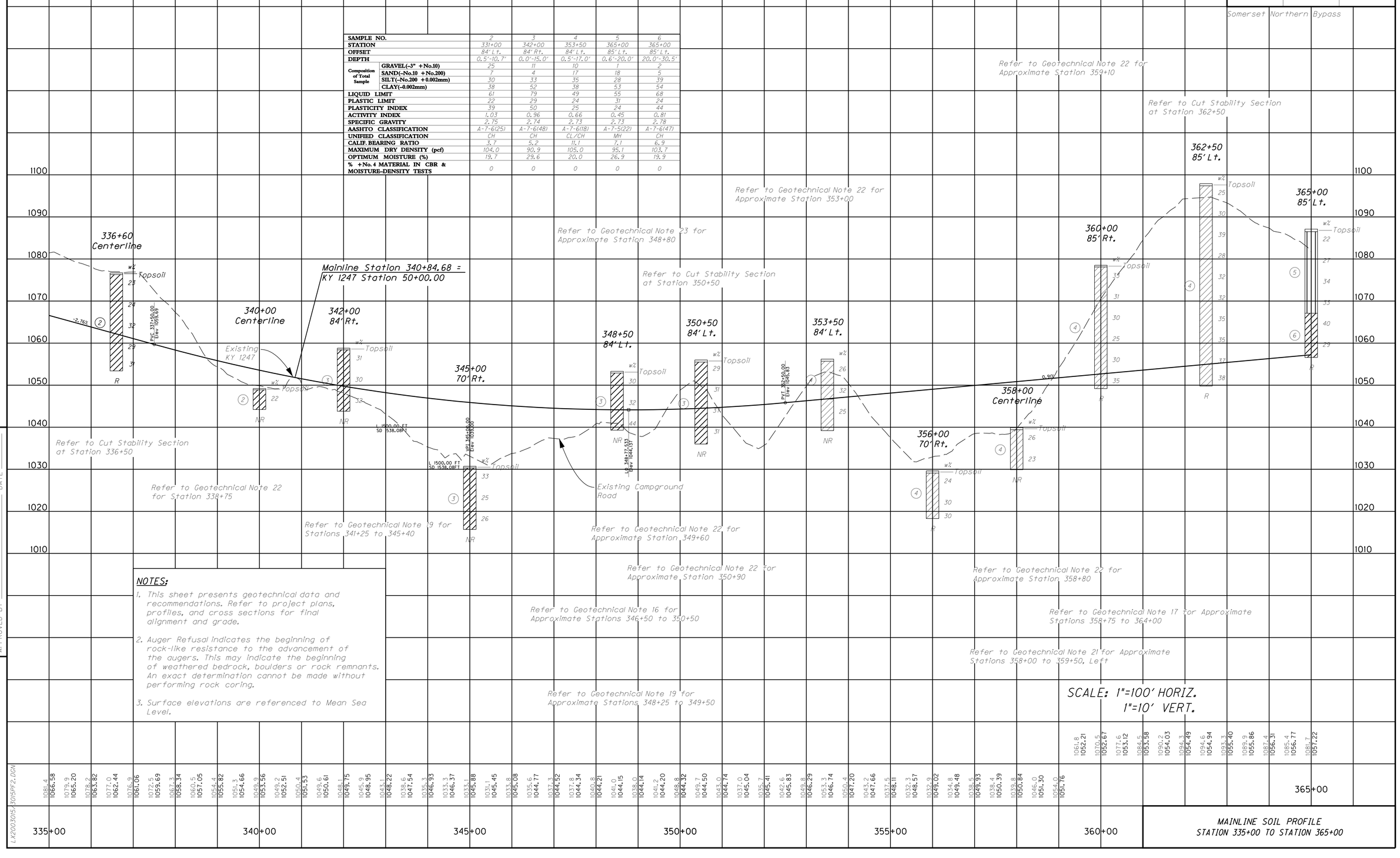
DATE ____ BY ____ PROJECT MANAGER

MAINLINE SOIL PROFILE
STATION 312+00 TO STATION 335+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R114

Somerset Northern Bypass

SAMPLE NO.		2	3	4	5	6
STATION		331+00	342+00	353+50	365+00	365+00
OFFSET		84' Lt.	84' Rt.	84' Lt.	85' Lt.	85' Lt.
DEPTH		0.5'-10.7'	0.0'-15.0'	0.5'-17.0'	0.6'-20.0'	20.0'-30.5'
Composition of Total Sample	GRAVEL(-3" +No.10)	25	11	10	1	2
	SAND(-No.10 +No.200)	7	4	17	18	5
	SILT(-No.200 +0.002mm)	30	33	35	28	39
	CLAY(-0.002mm)	38	52	38	53	54
LIQUID LIMIT		61	79	49	55	68
PLASTIC LIMIT		22	29	24	31	24
PLASTICITY INDEX		39	50	25	24	44
ACTIVITY INDEX		1.03	0.96	0.66	0.45	0.81
SPECIFIC GRAVITY		2.75	2.74	2.73	2.73	2.78
AASHTO CLASSIFICATION		A-7-6(25)	A-7-6(48)	A-7-6(18)	A-7-5(22)	A-7-6(47)
UNIFIED CLASSIFICATION		CH	CH	CL/CH	MH	CH
CALIF. BEARING RATIO		3.7	5.2	11.1	7.1	6.9
MAXIMUM DRY DENSITY (pcf)		104.0	90.9	105.0	95.1	103.7
OPTIMUM MOISTURE (%)		19.7	29.6	20.0	26.9	19.9
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0	0	0	0



NOTES:

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2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

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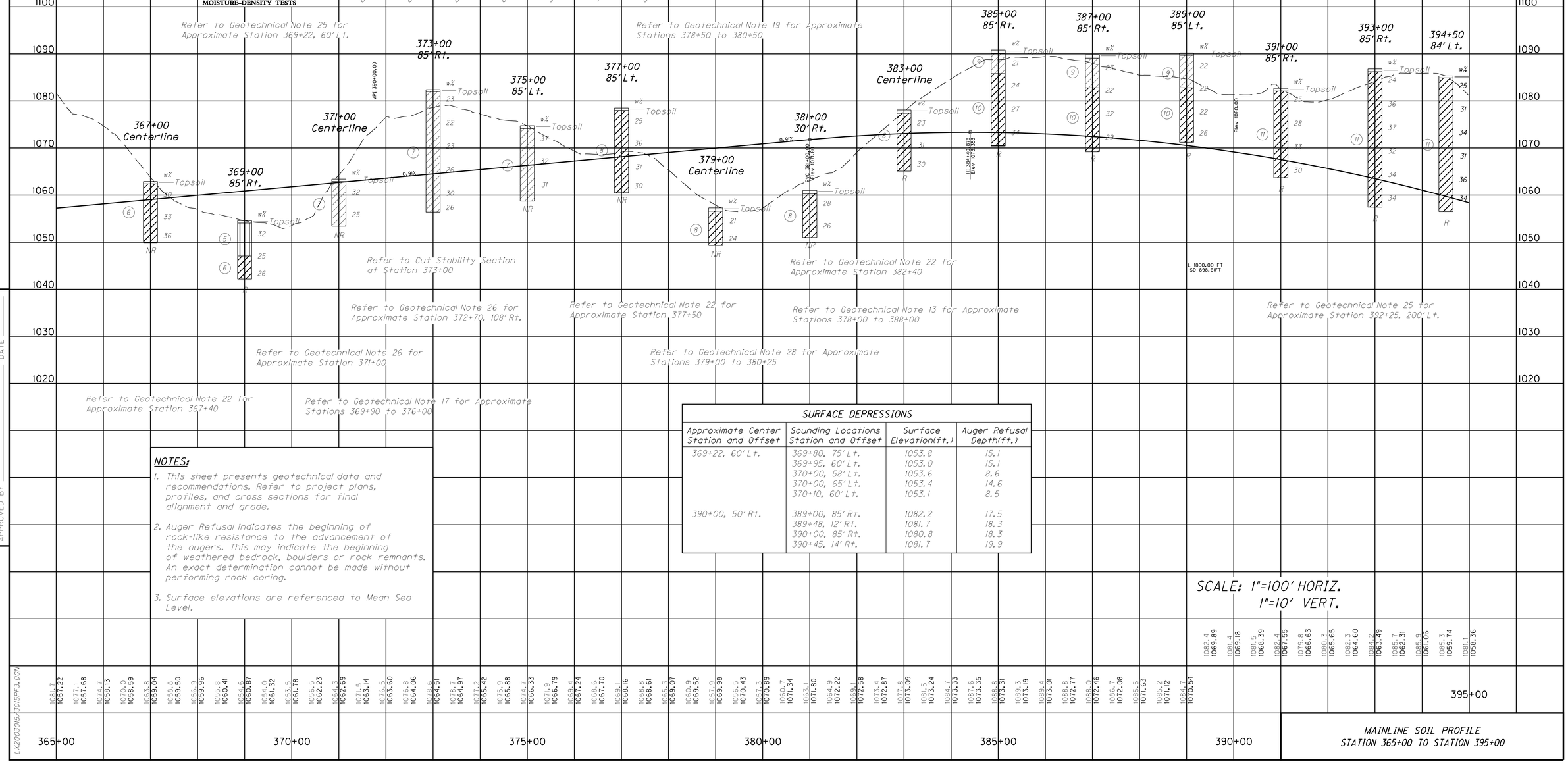
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R115

Somerset Northern Bypass

SAMPLE NO.		5	6	7	8	9	10	11
STATION		365+00	365+00	373+00	377+00	387+00	387+00	391+00
OFFSET		85' Lt.	85' Lt.	85' Rt.	85' Lt.	85' Rt.	85' Rt.	85' Rt.
DEPTH		0.6'-20.0'	20.0'-30.5'	0.0'-20.0'	0.5'-18.0'	0.7'-7.0'	7.0'-20.4'	0.0'-19.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	1	2	6	28	12	22	4
	SAND(-No.10 +No.200)	18	5	19	6	13	11	8
	SILT(-No.200 +0.002mm)	28	39	30	19	49	27	38
	CLAY(-0.002mm)	53	54	45	47	26	40	50
LIQUID LIMIT		55	68	48	68	36	54	71
PLASTIC LIMIT		31	24	18	32	22	24	25
PLASTICITY INDEX		24	44	30	36	14	30	46
ACTIVITY INDEX		0.45	0.81	0.68	0.77	0.54	0.75	0.92
SPECIFIC GRAVITY		2.73	2.78	2.75	2.80	2.70	2.75	2.75
AASHTO CLASSIFICATION		A-7-5(22)	A-7-6(47)	A-7-6(21)	A-7-5(24)	A-6(9)	A-7-6(19)	A-7-6(46)
UNIFIED CLASSIFICATION		MH	CH	CL	CH	CL	CH	CH
CALIF. BEARING RATIO		7.1	6.9	3.1	7.7	7.0	8.2	5.4
MAXIMUM DRY DENSITY (pcf)		95.1	103.7	109.8	91.7	109.4	99.9	97.4
OPTIMUM MOISTURE (%)		26.9	19.9	17.8	28.9	17.7	22.9	23.9
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0	0	0	9	7	0



SURFACE DEPRESSIONS

Approximate Center Station and Offset	Sounding Locations Station and Offset	Surface Elevation(ft.)	Auger Refusal Depth(ft.)
369+22, 60' Lt.	369+80, 75' Lt.	1053.8	15.1
	369+95, 60' Lt.	1053.0	15.1
	370+00, 58' Lt.	1053.6	8.6
	370+00, 65' Lt.	1053.4	14.6
	370+10, 60' Lt.	1053.1	8.5
390+00, 50' Rt.	389+00, 85' Rt.	1082.2	17.5
	389+48, 12' Rt.	1081.7	18.3
	390+00, 85' Rt.	1080.8	18.3
	390+45, 14' Rt.	1081.7	19.9

NOTES:

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3. Surface elevations are referenced to Mean Sea Level.

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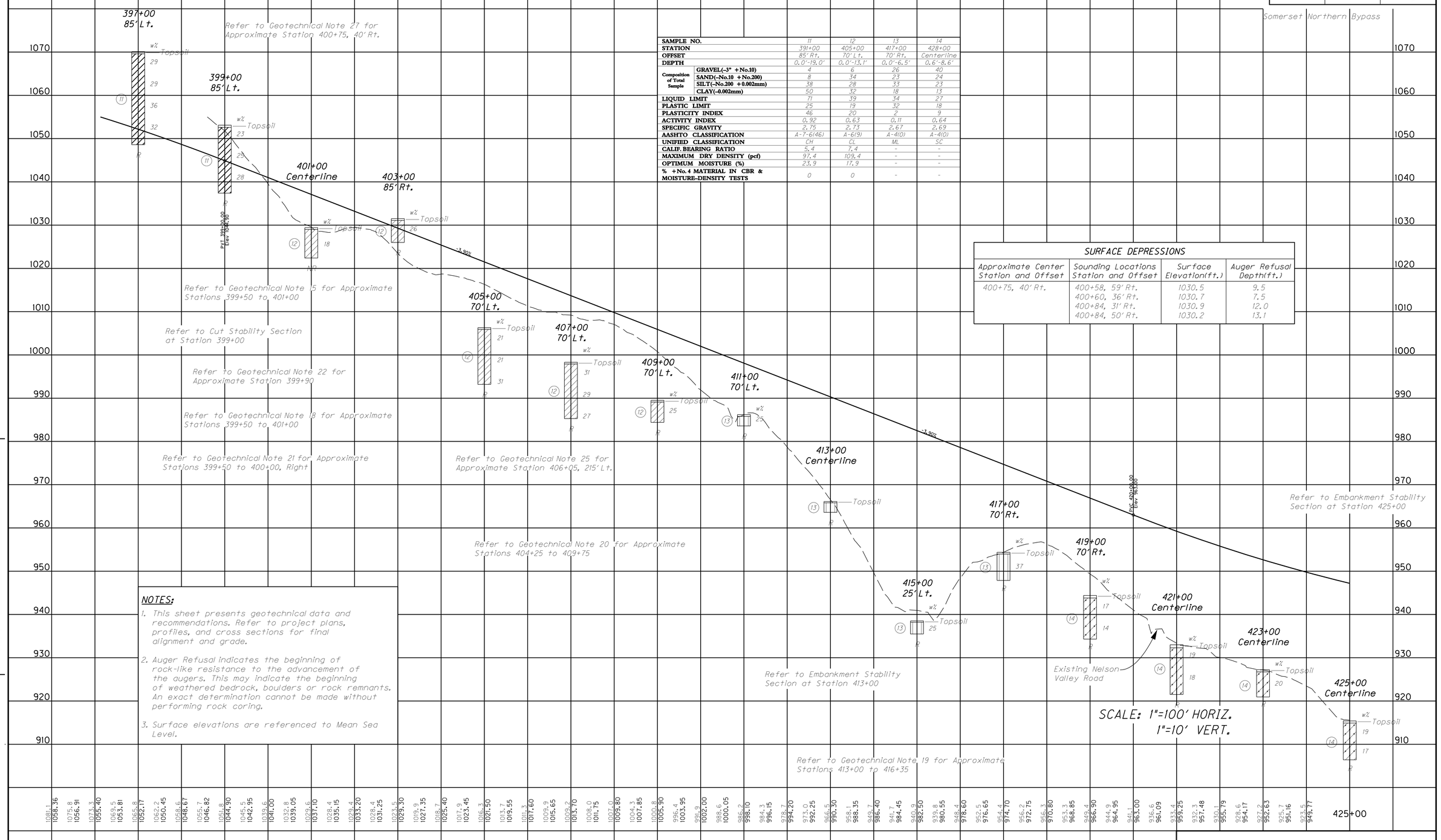
COUNTY OF	ITEM NO.	SHEET NO.
		R116

Somerset Northern Bypass



SAMPLE NO.		11	12	13	14
STATION		391+00	405+00	417+00	428+00
OFFSET		85' Rt.	70' Lt.	70' Rt.	Centerline
DEPTH		0.0'-19.0'	0.0'-13.1'	0.0'-6.5'	0.6'-8.6'
Composition of Total Sample	GRAVEL(-3" +No.10)	4	6	26	40
	SAND(-No.10 +No.200)	8	34	23	24
	SILT(-No.200 +0.002mm)	38	28	33	23
	CLAY(-0.002mm)	50	32	18	13
LIQUID LIMIT		71	39	34	27
PLASTIC LIMIT		25	19	32	18
PLASTICITY INDEX		46	20	2	9
ACTIVITY INDEX		0.92	0.63	0.11	0.64
SPECIFIC GRAVITY		2.75	2.73	2.67	2.69
AASHTO CLASSIFICATION		A-7-6(46)	A-6(9)	A-4(0)	A-4(0)
UNIFIED CLASSIFICATION		CH	CL	ML	SC
CALIF. BEARING RATIO		5.4	7.4	-	-
MAXIMUM DRY DENSITY (pcf)		97.4	109.4	-	-
OPTIMUM MOISTURE (%)		23.9	17.9	-	-
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0	-	-

SURFACE DEPRESSIONS

Approximate Center Station and Offset	Sounding Locations Station and Offset	Surface Elevation(ft.)	Auger Refusal Depth(ft.)
400+75, 40' Rt.	400+58, 59' Rt.	1030.5	9.5
	400+60, 36' Rt.	1030.7	7.5
	400+84, 31' Rt.	1030.9	12.0
	400+84, 50' Rt.	1030.2	13.1

NOTES:

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3. Surface elevations are referenced to Mean Sea Level.

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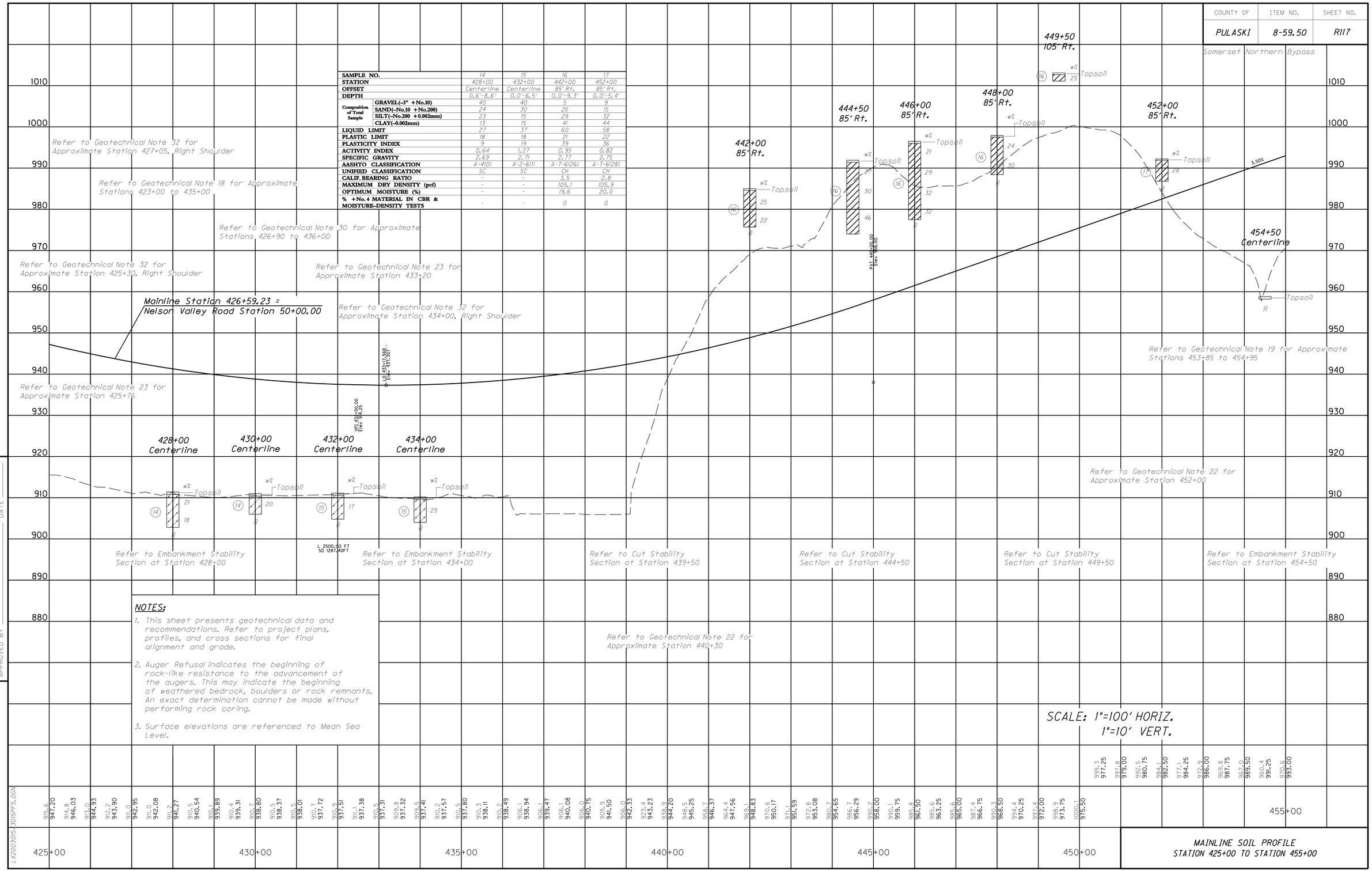
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R117

SAMPLE NO.		14	15	16	17
STATION		428+00	432+00	442+00	452+00
OFFSET		Centerline	Centerline	85' Rt.	85' Rt.
DEPTH		0.6'-8.6'	0.0'-6.5'	0.0'-9.3'	0.0'-5.4'
Composition of Total Sample	GRAVEL(-3" +No.10)	40	40	5	9
	SAND(-No.10 +No.200)	24	30	25	15
	SILT(-No.200 +0.002mm)	23	15	29	32
	CLAY(-0.002mm)	13	15	41	44
LIQUID LIMIT		27	37	60	58
PLASTIC LIMIT		18	18	21	22
PLASTICITY INDEX		9	19	39	36
ACTIVITY INDEX		0.64	1.27	0.95	0.82
SPECIFIC GRAVITY		2.69	2.71	2.77	2.75
AASHTO CLASSIFICATION		A-4(0)	A-2-6(1)	A-7-6(26)	A-7-6(28)
UNIFIED CLASSIFICATION		SC	SC	CH	CH
CALIF. BEARING RATIO		-	-	3.5	2.8
MAXIMUM DRY DENSITY (pcf)		-	-	105.1	105.9
OPTIMUM MOISTURE (%)		-	-	19.6	20.0
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		-	-	0	0



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SCALE: 1"=100' HORIZ.
1"=10' VERT.

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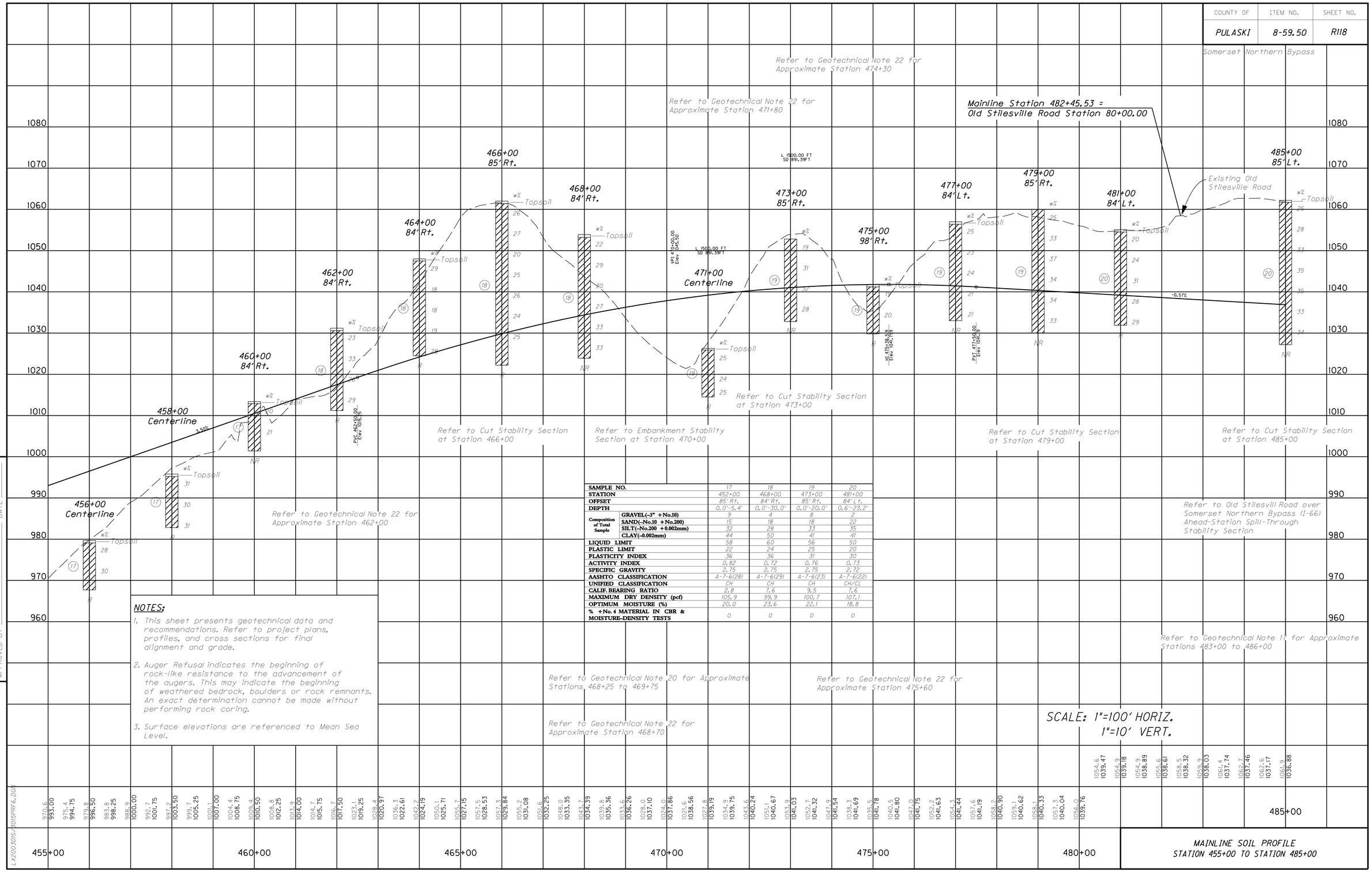
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R118

Somerset Northern Bypass



SAMPLE NO.		17	18	19	20
STATION		452+00	468+00	473+00	481+00
OFFSET		85' Rt.	84' Rt.	85' Rt.	84' Lt.
DEPTH		0.0'-5.4'	0.0'-30.0'	0.0'-20.0'	0.6'-23.2'
Composition of Total Sample	GRAVEL(-3" +No.10)	9	4	8	2
	SAND(-No.10 +No.200)	15	18	18	22
	SILT(-No.200 +0.002mm)	32	28	33	35
	CLAY(-0.002mm)	44	50	41	41
LIQUID LIMIT		58	60	56	50
PLASTIC LIMIT		22	24	25	20
PLASTICITY INDEX		36	36	31	30
ACTIVITY INDEX		0.82	0.72	0.76	0.73
SPECIFIC GRAVITY		2.75	2.75	2.75	2.72
AASHTO CLASSIFICATION		A-7-6(28)	A-7-6(29)	A-7-6(23)	A-7-6(22)
UNIFIED CLASSIFICATION		CH	CH	CH	CH/CL
CALIF. BEARING RATIO		2.8	7.6	9.5	7.6
MAXIMUM DRY DENSITY (pcf)		105.9	99.9	100.7	107.1
OPTIMUM MOISTURE (%)		20.0	23.6	22.1	18.8
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0	0	0

NOTES:

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3. Surface elevations are referenced to Mean Sea Level.

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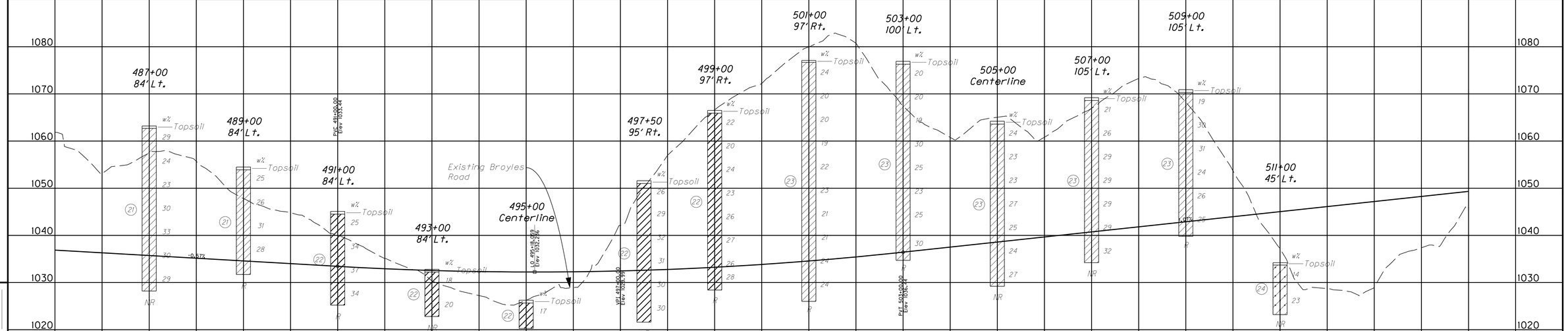
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R119

Somerset Northern Bypass

SAMPLE NO.		21	22	23	24
STATION		487+00	491+00	501+00	511+00
OFFSET		84' Lt	84' Lt.	97' Rt.	45' Lt.
DEPTH		0.5'-35.0'	0.6'-19.9'	0.0'-51.1'	0.0'-11.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	4	2	9	21
	SAND(-No.10 +No.200)	28	15	28	31
	SILT(-No.200 +0.002mm)	26	20	29	28
	CLAY(-0.002mm)	42	63	34	20
LIQUID LIMIT		48	63	41	31
PLASTIC LIMIT		23	30	20	20
PLASTICITY INDEX		26	33	21	11
ACTIVITY INDEX		0.60	0.53	0.62	0.55
SPECIFIC GRAVITY		2.76	2.75	2.74	2.74
AASHTO CLASSIFICATION		A-7-6(16)	A-7-5(31)	A-7-6(11)	A-6(2)
UNIFIED CLASSIFICATION		CL	CH	CL	SC
CALIF. BEARING RATIO		14.0	8.7	7.3	40.2
MAXIMUM DRY DENSITY (pcf)		106.7	90.4	107.5	119.4
OPTIMUM MOISTURE (%)		20.1	27.9	19.0	13.2
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0	0	18



NOTES:

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3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=100' HORIZ.
1"=10' VERT.

1061.9 1036.88 | 1057.8 1036.60 | 1053.1 1036.31 | 1054.9 1036.02 | 1057.5 1035.73 | 1057.5 1035.45 | 1055.7 1035.16 | 1051.7 1034.87 | 1047.8 1034.59 | 1045.8 1034.30 | 1044.8 1034.01 | 1042.8 1033.72 | 1040.1 1033.44 | 1037.8 1033.17 | 1035.1 1032.93 | 1033.1 1032.73 | 1030.4 1032.56 | 1028.6 1032.43 | 1027.3 1032.33 | 1025.4 1032.27 | 1026.3 1032.24 | 1028.4 1032.24 | 1028.9 1032.28 | 1033.9 1032.36 | 1042.1 1032.46 | 1050.1 1032.61 | 1057.0 1032.78 | 1061.9 1032.99 | 1066.6 1033.24 | 1069.9 1033.52 | 1072.2 1033.84 | 1076.6 1034.19 | 1080.0 1034.57 | 1082.7 1034.98 | 1080.7 1035.43 | 1073.1 1035.92 | 1067.4 1036.44 | 1063.3 1036.97 | 1060.8 1037.51 | 1063.3 1038.05 | 1065.0 1038.59 | 1063.0 1039.12 | 1060.8 1039.66 | 1064.4 1040.20 | 1066.9 1040.73 | 1070.4 1041.27 | 1073.2 1041.81 | 1072.1 1042.35 | 1068.2 1042.88 | 1061.6 1043.42 | 1053.7 1043.96 | 1044.3 1044.49 | 1037.2 1045.03 | 1028.5 1045.57 | 1028.7 1046.11 | 1028.0 1046.64 | 1029.1 1047.18 | 1035.6 1047.72 | 1037.4 1048.26 | 1039.4 1048.79 | 1046.6 1049.33

485+00 | 490+00 | 495+00 | 500+00 | 505+00 | 510+00 | 515+00

MAINLINE SOIL PROFILE
STATION 485+00 TO STATION 515+00

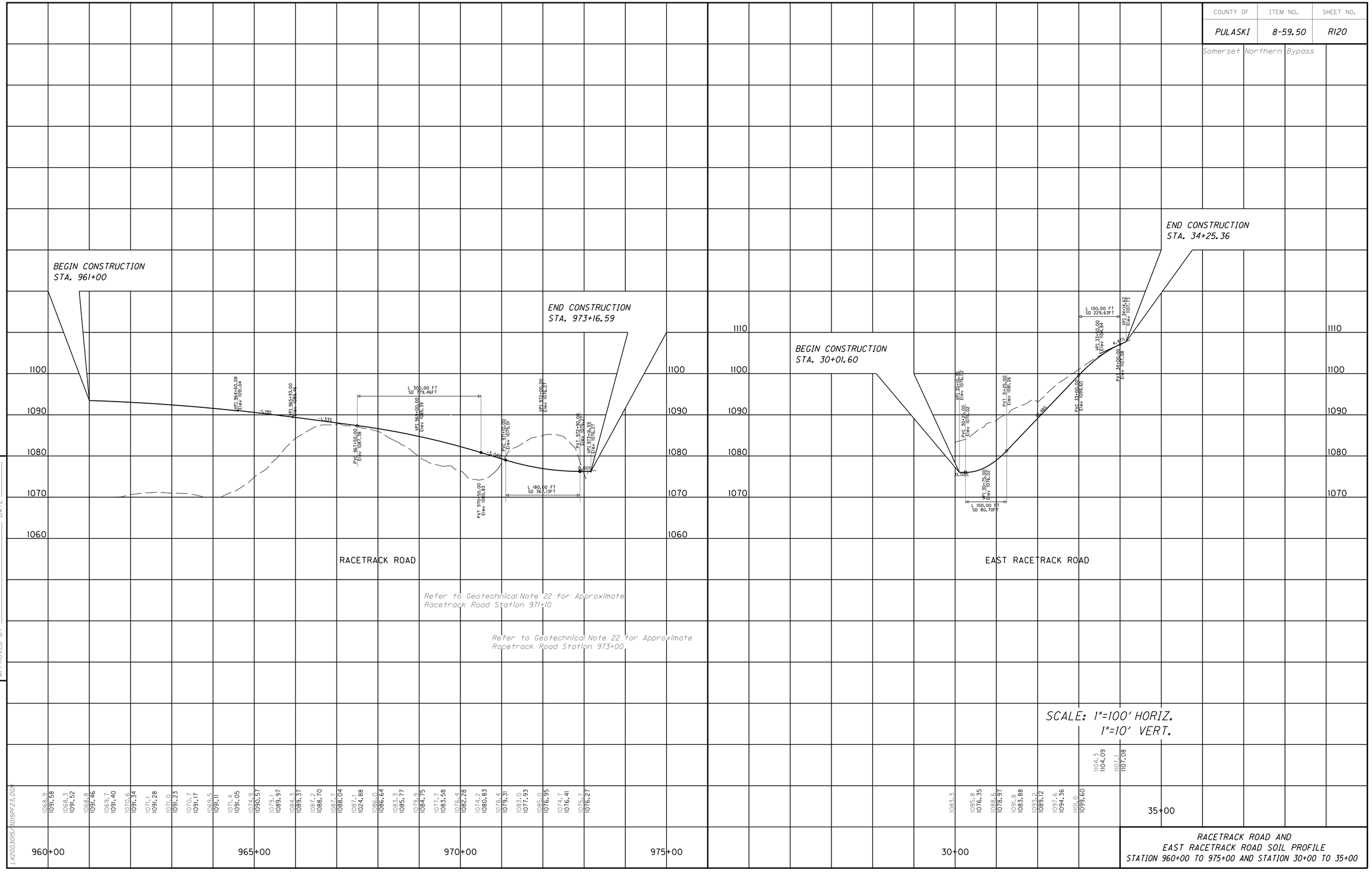
PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

...\plandgns\R119OGT.dgn
Cell Name: ssp
3/17/2014

LX2003015 2015PF7.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R120

Somerset Northern Bypass



RACETRACK ROAD AND
EAST RACETRACK ROAD SOIL PROFILE
STATION 960+00 TO 975+00 AND STATION 30+00 TO 35+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

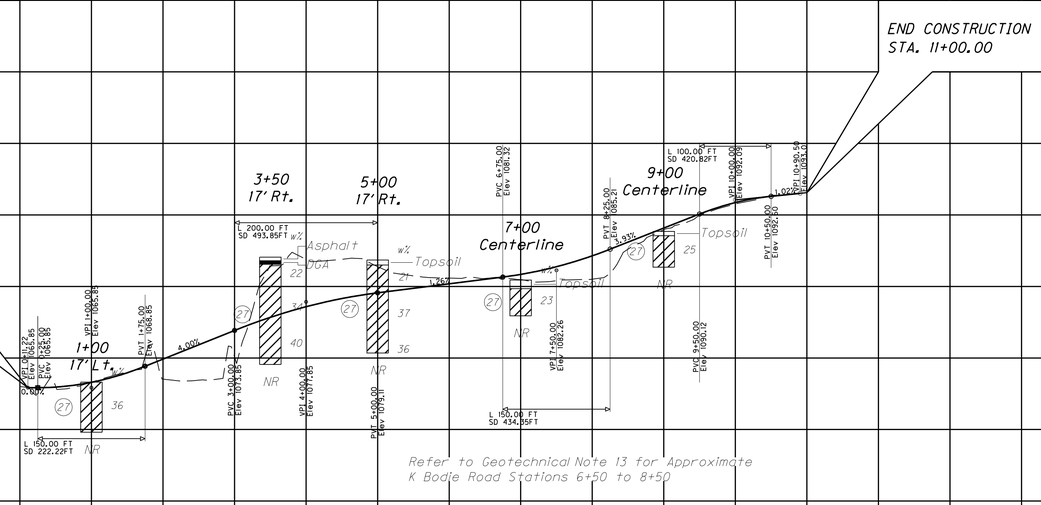
...\plandgns\R12000GT.dgn
Cell Name: ssp
3/17/2014

LX2003015/B015PF23.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R121

Somerset Northern Bypass

SAMPLE NO.		27
STATION		1+00
OFFSET		17' Lt.
DEPTH		0.0'-7.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	8
	SAND(-No.10 +No.200)	8
	SILT(-No.200 +0.002mm)	20
	CLAY(-0.002mm)	64
LIQUID LIMIT		81
PLASTIC LIMIT		30
PLASTICITY INDEX		51
ACTIVITY INDEX		0.80
SPECIFIC GRAVITY		2.75
AASHTO CLASSIFICATION		A-7-5(48)
UNIFIED CLASSIFICATION		CH
CALIF. BEARING RATIO		3.7
MAXIMUM DRY DENSITY (pcf)		92.9
OPTIMUM MOISTURE (%)		28.3
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0



Refer to Geotechnical Note 13 for Approximate K Bodie Road Stations 6+50 to 8+50

Refer to Geotechnical Note 22 for Approximate K Bodie Road Station 3+20

Refer to Geotechnical Note 16 for Approximate K Bodie Road Stations 8+60 to 10+00

Refer to Cut Stability Section at Station 3+50

Refer to Geotechnical Note 22 for Approximate K Bodie Road Station 6+70

NOTES:

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SCALE: 1"=100' HORIZ.
1"=10' VERT.

1066.0	
1066.1	1065.93
1066.6	1066.60
1068.1	1067.93
1067.0	
1069.85	
1066.9	1071.85
1070.2	1073.85
1082.9	1075.68
1083.8	1077.17
1083.8	1078.31
1082.8	1079.11
1081.5	1079.74
1081.2	1080.37
1081.1	1081.00
1080.9	
1081.69	
1080.8	1082.76
1081.0	
1084.28	
1085.2	1086.19
1087.9	
1088.16	
1090.0	1090.12
1091.5	
1091.73	
1092.7	1092.60

0+00 5+00 10+00 11+00

K BODIE ROAD SOIL PROFILE
STATION 0+00 TO STATION 11+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

...\plandgns\R121OGT.dgn
Cell Name: ssp
3/17/2014

LX2003015/8015PF17.DGN

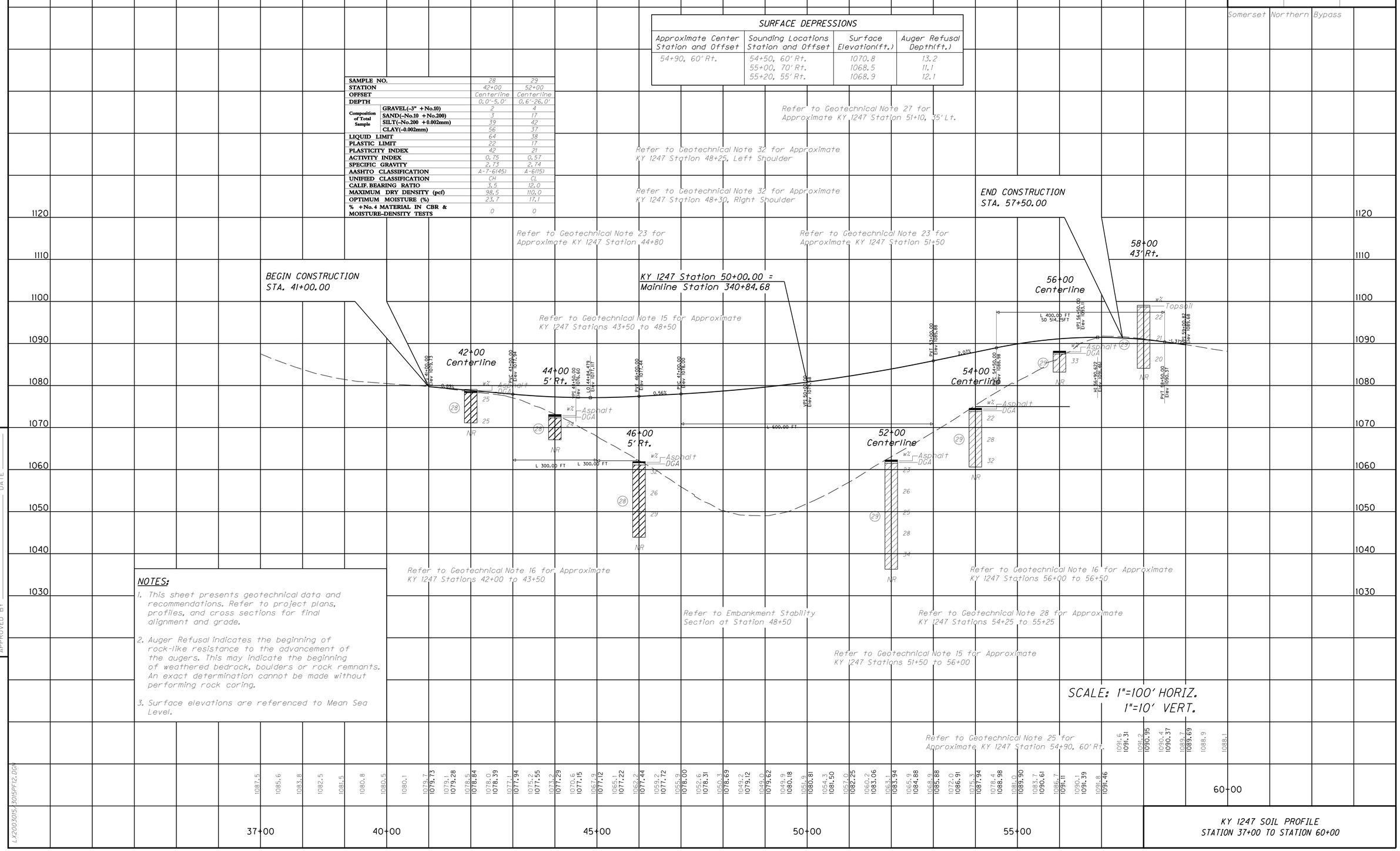
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R122

Somerset Northern Bypass

SURFACE DEPRESSIONS

Approximate Center Station and Offset	Sounding Locations Station and Offset	Surface Elevation(ft.)	Auger Refusal Depth(ft.)
54+90, 60' Rt.	54+50, 60' Rt.	1070.8	13.2
	55+00, 70' Rt.	1068.5	11.1
	55+20, 55' Rt.	1068.9	12.1

SAMPLE NO.		28	29
STATION		42+00	52+00
OFFSET		Centerline	Centerline
DEPTH		0.0'-5.0'	0.6'-26.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	2	4
	SAND(-No.10 +No.200)	3	17
	SILT(-No.200 +0.002mm)	39	42
	CLAY(-0.002mm)	56	37
LIQUID LIMIT		64	38
PLASTIC LIMIT		22	17
PLASTICITY INDEX		42	21
ACTIVITY INDEX		0.75	0.57
SPECIFIC GRAVITY		2.73	2.74
AASHTO CLASSIFICATION		A-7-6(45)	A-6(15)
UNIFIED CLASSIFICATION		CH	CL
CALIF. BEARING RATIO		3.5	12.0
MAXIMUM DRY DENSITY (pcf)		98.5	110.0
OPTIMUM MOISTURE (%)		23.7	17.1
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0



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SCALE: 1"=100' HORIZ.
1"=10' VERT.

KY 1247 SOIL PROFILE
STATION 37+00 TO STATION 60+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

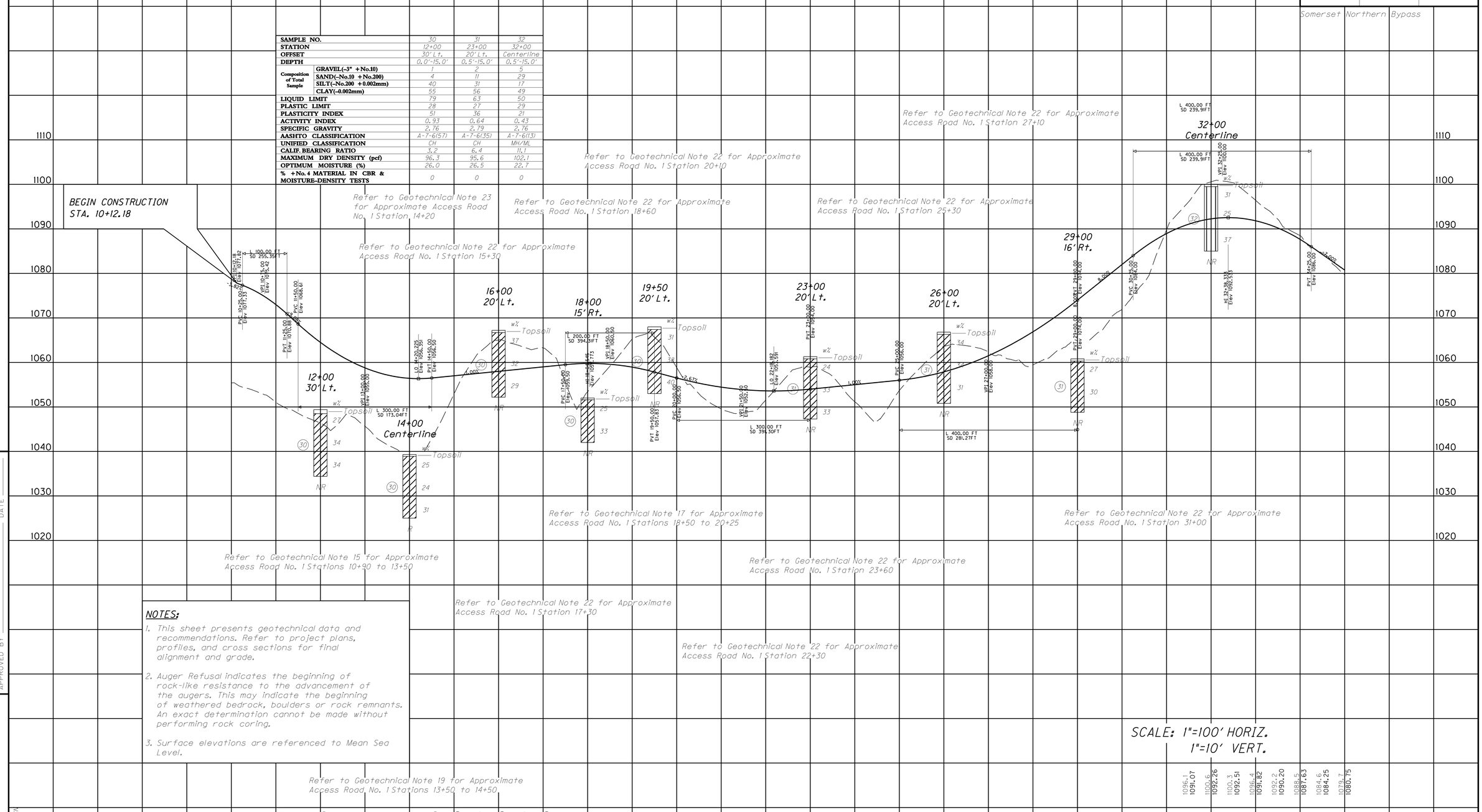
...\plandgns\R12200GT.dgn
Cell Name: ssp
3/17/2014

LX2003015/3015PF12.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R123

Somerset Northern Bypass

SAMPLE NO.		30	31	32
STATION		12+00	23+00	32+00
OFFSET		30' Lt.	20' Lt.	Centerline
DEPTH		0.0'-15.0'	0.5'-15.0'	0.5'-15.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	1	2	5
	SAND(-No.10 +No.200)	4	11	29
	SILT(-No.200 +0.002mm)	40	31	17
	CLAY(-0.002mm)	55	56	49
LIQUID LIMIT		79	63	50
PLASTIC LIMIT		28	27	29
PLASTICITY INDEX		51	36	21
ACTIVITY INDEX		0.93	0.64	0.43
SPECIFIC GRAVITY		2.76	2.79	2.76
AASHTO CLASSIFICATION		A-7-6(57)	A-7-6(35)	A-7-6(13)
UNIFIED CLASSIFICATION		CH	CH	MH/ML
CALIF. BEARING RATIO		3.2	6.4	11.1
MAXIMUM DRY DENSITY (pcf)		96.3	95.6	102.1
OPTIMUM MOISTURE (%)		26.0	26.5	22.7
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0	0



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SCALE: 1"=100' HORIZ.
1"=10' VERT.

ACCESS ROAD #1 SOIL PROFILE
STATION 10+00 TO STATION 35+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: ssp
3/17/2014

LX2003015/3015PF18.DGN

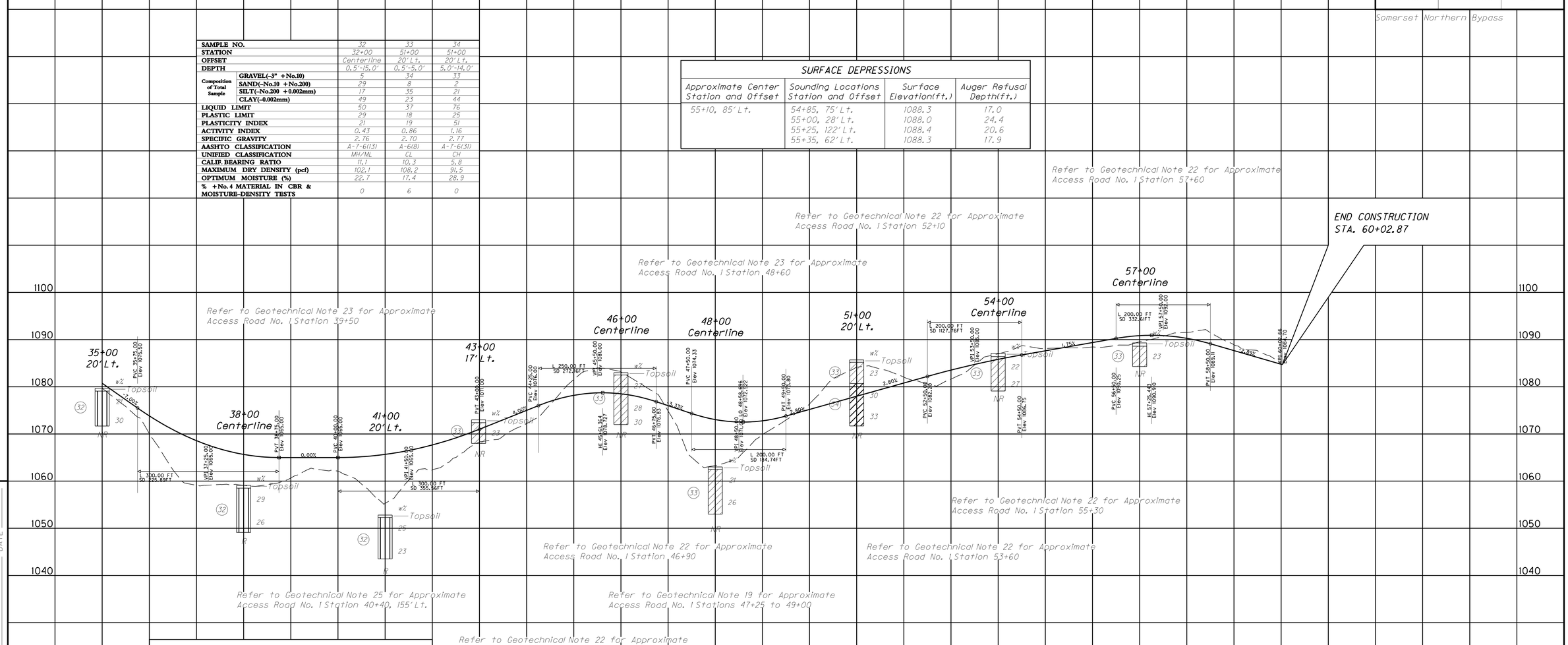
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R124

Somerset Northern Bypass

SAMPLE NO.		32	33	34
STATION		32+00	51+00	51+00
OFFSET		Centerline	20' Lt.	20' Lt.
DEPTH		0.5'-15.0'	0.5'-5.0'	5.0'-14.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	5	34	33
	SAND(-No.10 +No.200)	29	8	2
	SILT(-No.200 +0.002mm)	17	35	21
	CLAY(-0.002mm)	49	23	44
LIQUID LIMIT		50	37	76
PLASTIC LIMIT		29	18	25
PLASTICITY INDEX		21	19	51
ACTIVITY INDEX		0.43	0.86	1.16
SPECIFIC GRAVITY		2.76	2.70	2.77
AASHTO CLASSIFICATION		A-7-6(13)	A-6(8)	A-7-6(31)
UNIFIED CLASSIFICATION		MH/ML	CL	CH
CALIF. BEARING RATIO		11.1	10.3	5.8
MAXIMUM DRY DENSITY (pcf)		102.1	108.2	91.5
OPTIMUM MOISTURE (%)		22.7	17.4	28.9
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	6	0

SURFACE DEPRESSIONS

Approximate Center Station and Offset	Sounding Locations Station and Offset	Surface Elevation(ft.)	Auger Refusal Depth(ft.)
55+10, 85' Lt.	54+85, 75' Lt.	1088.3	17.0
	55+00, 28' Lt.	1088.0	24.4
	55+25, 122' Lt.	1088.4	20.6
	55+35, 62' Lt.	1088.3	17.9



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SCALE: 1"=100' HORIZ.
1"=10' VERT.

1087.6 1086.22 1084.9 1084.78

1079.7 1080.75 1075.8 1071.25 1070.1 1073.82 1062.4 1070.91 1059.1 1068.57 1059.3 1066.82 1059.1 1065.66 1059.3 1065.07 1060.7 1065.00 1062.6 1065.00 1062.1 1065.00 1059.4 1065.17 1055.3 1065.67 1060.2 1066.50 1062.4 1067.67 1065.0 1069.17 1068.3 1071.00 1069.5 1073.00 1072.2 1075.00 1076.2 1076.91 1081.5 1078.18 1084.0 1078.71 1083.2 1078.51 1080.1 1077.57 1074.9 1076.00 1065.0 1074.33 1063.3 1073.05 1065.1 1072.53 1069.8 1072.18 1073.0 1073.80 1076.4 1075.20 1081.7 1076.60 1084.1 1078.00 1083.8 1079.40 1082.1 1080.80 1080.6 1082.20 1081.6 1083.53 1084.6 1084.74 1087.0 1085.81 1088.7 1086.75 1088.1 1087.63 1088.3 1088.50 1088.4 1089.38 1088.8 1090.25 1089.5 1090.84 1090.7 1090.84 1091.5 1090.27 1091.5 1089.11 1088.9 1087.67

35+00 40+00 45+00 50+00 55+00 60+00

ACCESS ROAD #1 SOIL PROFILE
STATION 35+00 TO STATION 60+02.87

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

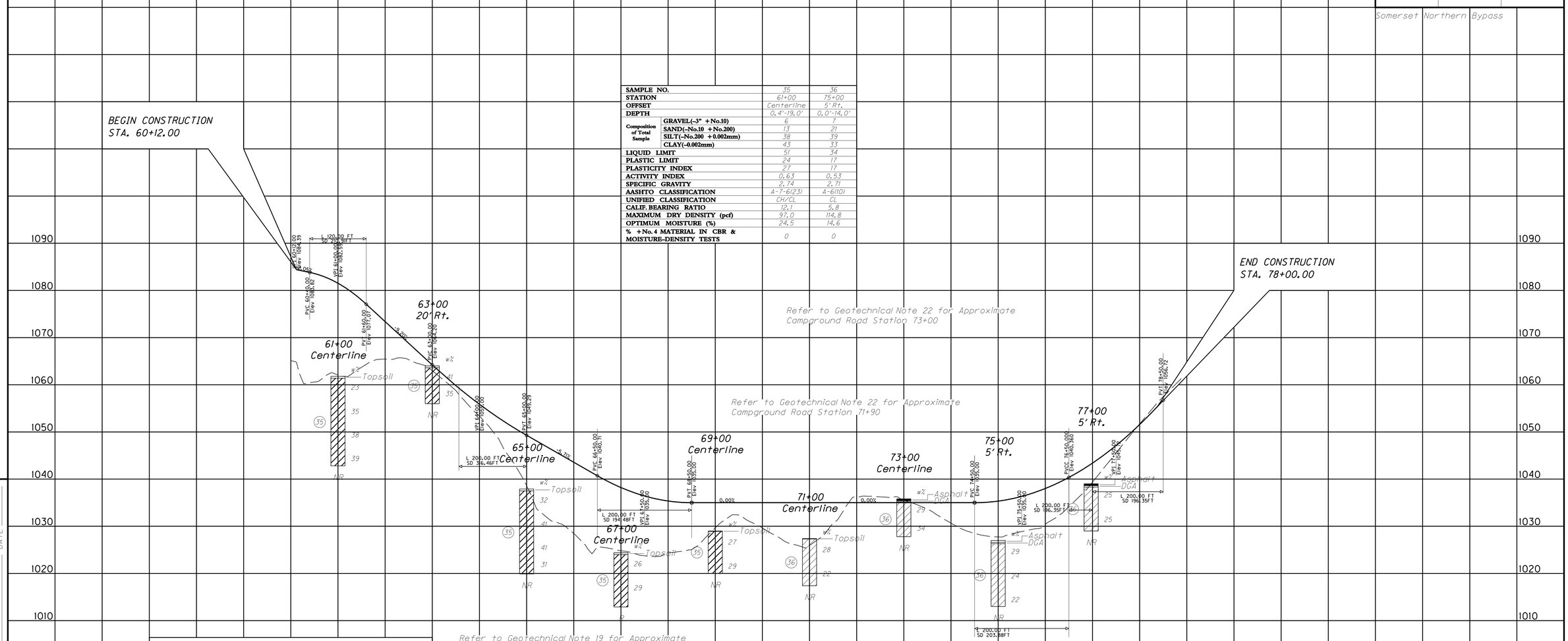
..\plandgns\R12400GT.dgn
Cell Name: ssp
3/17/2014

LX2003015_3015P1BA.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R125

Somerset Northern Bypass

SAMPLE NO.		35	36
STATION		61+00	75+00
OFFSET		Centerline	5' Rt.
DEPTH		0.4'-19.0'	0.0'-14.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	6	7
	SAND(-No.10 +No.200)	13	21
	SILT(-No.200 +0.002mm)	38	39
	CLAY(-0.002mm)	43	33
LIQUID LIMIT		51	34
PLASTIC LIMIT		24	17
PLASTICITY INDEX		27	17
ACTIVITY INDEX		0.63	0.53
SPECIFIC GRAVITY		2.74	2.71
AASHTO CLASSIFICATION		A-7-6(23)	A-6(10)
UNIFIED CLASSIFICATION		CH/CL	CL
CALIF. BEARING RATIO		12.1	5.8
MAXIMUM DRY DENSITY (pcf)		97.0	114.8
OPTIMUM MOISTURE (%)		24.5	14.6
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0



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60+00	65+00	70+00	75+00	79+00
1065.1	1060.6 1083.58	1063.7 1077.96	1065.5 1073.39	1065.3 1068.80
1063.0 1064.20	1058.8 1059.82	1053.3 1055.87	1046.7 1052.36	1038.6 1049.29
1031.3 1046.43	1028.5 1043.57	1025.6 1040.71	1024.8 1038.21	1023.8 1036.43
1024.4 1035.36	1025.1 1035.00	1029.7 1035.00	1032.4 1035.00	1029.6 1035.00
1026.7 1035.00	1025.9 1035.00	1030.6 1035.00	1036.3 1035.00	1036.2 1035.00
1035.5 1035.00	1033.6 1035.00	1030.6 1035.00	1028.5 1035.00	1027.8 1035.34
1028.9 1036.34	1030.4 1038.02	1034.2 1040.36	1039.4 1043.39	1045.6 1047.13
1051.7 1051.57	1057.5 1056.72			

CAMPGROUND ROAD SOIL PROFILE
STATION 60+00 TO STATION 79+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

..\plandgns\R12500GT.dgn
Cell Name: ssp
3/17/2014

LX2003015_3015PF13.DGN

SAMPLE NO.		37	38	39
STATION		41+00	51+00	61+00
OFFSET		Centerline	Centerline	Centerline
DEPTH		0.0'-5.0'	0.0'-7.0'	0.4'-5.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	33	16	0
	SAND(-No.10 +No.200)	26	22	20
	SILT(-No.200 +0.002mm)	23	42	49
	CLAY(-0.002mm)	18	20	31
LIQUID LIMIT		35	29	32
PLASTIC LIMIT		19	19	17
PLASTICITY INDEX		16	10	15
ACTIVITY INDEX		0.89	0.50	0.48
SPECIFIC GRAVITY		2.68	2.65	2.70
AASHTO CLASSIFICATION		A-6(3)	A-4(4)	A-6(10)
UNIFIED CLASSIFICATION		SC	CL	CL
CALIF. BEARING RATIO		4.2	-	9.3
MAXIMUM DRY DENSITY (pcf)		114.7	-	111.5
OPTIMUM MOISTURE (%)		14.6	-	15.7
% +No. 4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		18	-	0

NOTES:

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SCALE: 1"=100' HORIZ.
1"=10' VERT.

39+00 40+00 45+00 50+00 55+00 60+00 65+00 67+00

NELSON VALLEY ROAD SOIL PROFILE
STATION 39+00 TO STATION 67+00

PREPARED BY ____ DATE
CHECKED BY ____ DATE
APPROVED BY ____ DATE

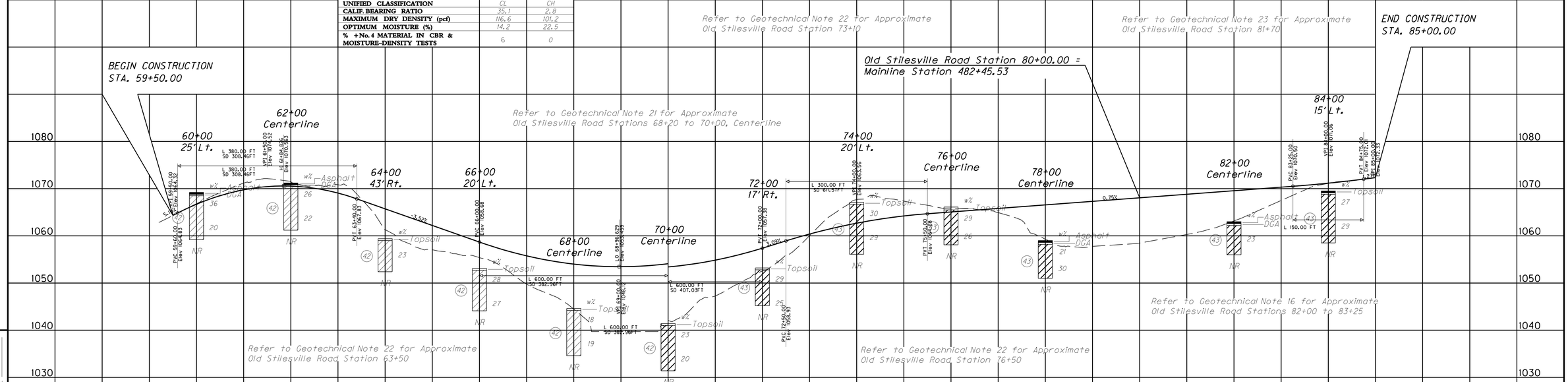
...\planqgns\R12600CT.dgn
Cell Name: ssp
3/17/2014

LX20030I5\3015PF16.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	RI27

Somerset Northern Bypass

SAMPLE NO.		42	43
STATION		68+00	78+00
OFFSET		Centerline	Centerline
DEPTH		0.0'-10.0'	0.0'-8.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	11	2
	SAND(-No.10 +No.200)	26	13
	SILT(-No.200 +0.002mm)	41	26
	CLAY(-0.002mm)	22	59
LIQUID LIMIT		27	62
PLASTIC LIMIT		19	21
PLASTICITY INDEX		8	41
ACTIVITY INDEX		0.36	0.69
SPECIFIC GRAVITY		2.72	2.75
AASHTO CLASSIFICATION		A-4(3)	A-7-6(38)
UNIFIED CLASSIFICATION		CL	CH
CALIF. BEARING RATIO		35.1	2.8
MAXIMUM DRY DENSITY (pcf)		116.6	101.2
OPTIMUM MOISTURE (%)		14.2	22.5
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		6	0



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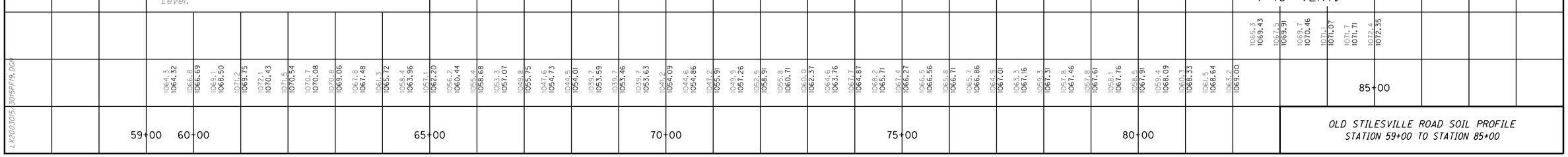
SCALE: 1"=100' HORIZ.
1"=10' VERT.



OLD STILESVILLE ROAD SOIL PROFILE
STATION 59+00 TO STATION 85+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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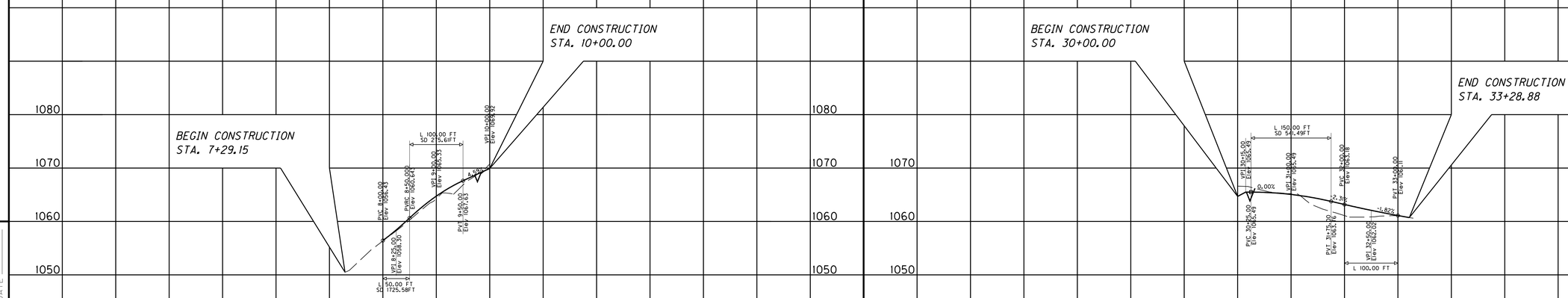
Cell Name: ssp
3/17/2014

LX2003015_3015PF19.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R128

Somerset Northern Bypass



SCALE: 1"=100' HORIZ.
1"=10' VERT.

OLD STILESVILLE ROAD CONNECTOR AND
JOHNS LANE SOIL PROFILE
STATION 6+00 TO 12+00 AND STATION 28+00 TO 35+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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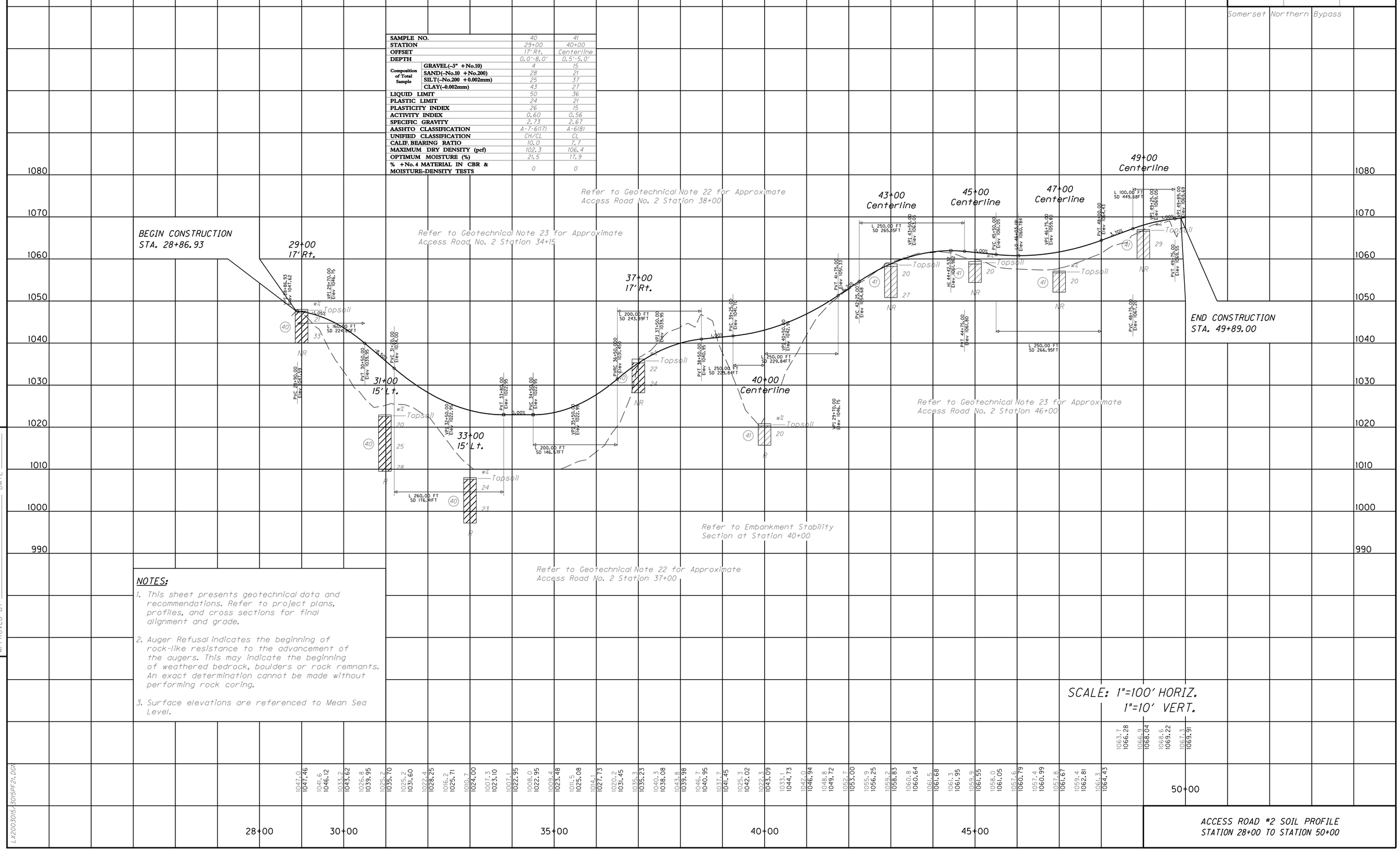
Cell Name: ssp
3/17/2014

LX2003015 2015PF24.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R129

Somerset Northern Bypass

SAMPLE NO.		40	41
STATION		29+00	40+00
OFFSET		17' Rt.	Centerline
DEPTH		0.0'-8.0'	0.5'-5.0'
Composition of Total Sample	GRAVEL(-3" +No.10)	4	15
	SAND(-No.10 +No.200)	28	21
	SILT(-No.200 +0.002mm)	25	37
	CLAY(-0.002mm)	43	27
LIQUID LIMIT		50	36
PLASTIC LIMIT		24	21
PLASTICITY INDEX		26	15
ACTIVITY INDEX		0.60	0.56
SPECIFIC GRAVITY		2.73	2.67
AASHTO CLASSIFICATION		A-7-6(17)	A-6(8)
UNIFIED CLASSIFICATION		CH/CL	CL
CALIF. BEARING RATIO		10.0	7.7
MAXIMUM DRY DENSITY (pcf)		102.3	106.4
OPTIMUM MOISTURE (%)		21.5	17.9
% +No.4 MATERIAL IN CBR & MOISTURE-DENSITY TESTS		0	0



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=100' HORIZ.
1"=10' VERT.

ACCESS ROAD #2 SOIL PROFILE
STATION 28+00 TO STATION 50+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: ssp
3/17/2014

LX200305_3015PF21.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R130

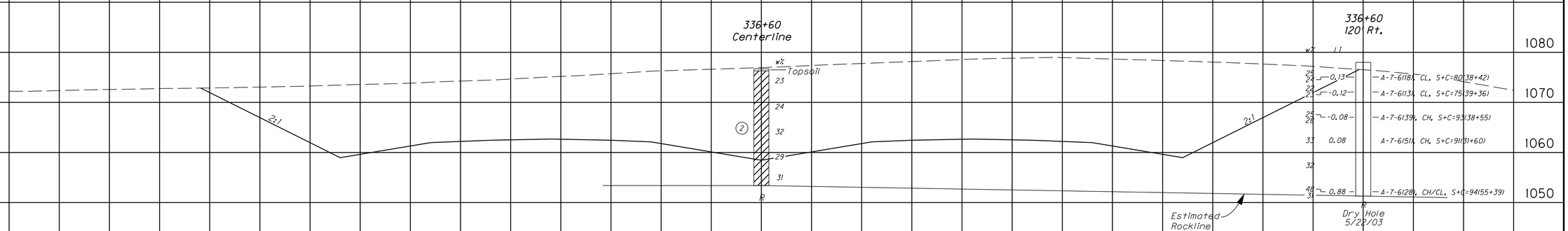
Somerset Northern Bypass

ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
336+00	84' Rt.	21.0	-	1058.5
342+80	84' Rt.	13.0	-	1045.5

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

Location	336+60, 120.0' Rt.	336+60, 120.0' Rt.	336+60, 120.0' Rt.
Depth	2.2'-2.7'	5.0'-5.5'	10.5'-11.0'
$\bar{\phi}$	28.8°		
$\bar{c}$	530 psf		



336+50

SUMMARY OF LABORATORY TEST DATA

Station	Offset	Sample Depth	w(%)	LI	Classification AASHTO	Classification USCS	% Silt	% Clay
332+00	120' Lt.	2.2-2.7	29	0.05	A-7-6(44)	CH	30	62
332+00	120' Lt.	5.0-5.5	28	-	-	-	-	-
332+00	120' Lt.	5.6-6.1	28	-	-	-	-	-
332+00	120' Lt.	10.3-10.7	30	-	-	-	-	-
332+00	120' Lt.	15.3-15.8	27	0.14	A-7-6(30)	CH	35	47

Core Log Station 332+00, 84' Lt.

Elev. 1092.5 - 1074.7 Overburden
1074.7 - 1073.9 Limestone, gray, microcrystalline to fine crystalline grained, thin bedded, with shale stringers
1073.9 - 1073.2 **Void**
1073.2 - 1064.9 Limestone, gray, microcrystalline to fine crystalline grained, thin bedded, with shale stringers

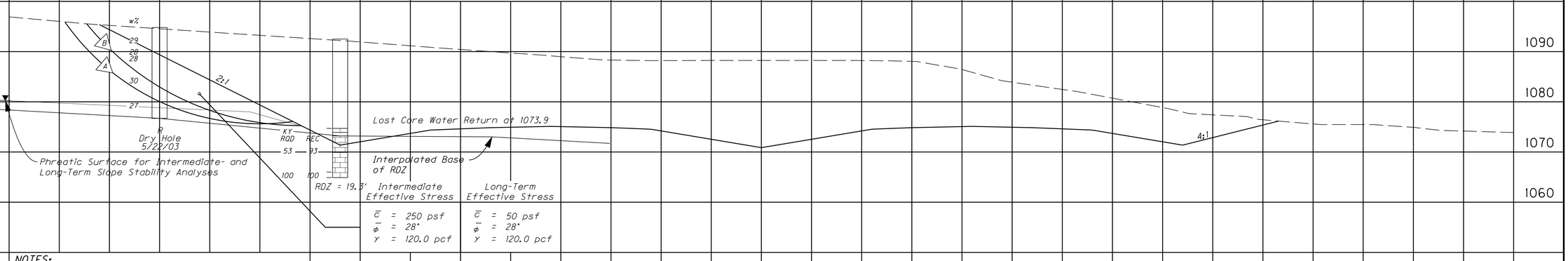
ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
328+00	84' Rt.	14.0	-	1078.6
329+80	84' Lt.	14.4	1074.6	-
334+00	84' Lt.	15.1	1070.4	-

FACTORS OF SAFETY

A Intermediate (Rotational) 2.3

B Long-Term (Rotational) 1.4



Intermediate Effective Stress	Long-Term Effective Stress
$\bar{c}$ = 250 psf	$\bar{c}$ = 50 psf
$\bar{\phi}$ = 28°	$\bar{\phi}$ = 28°
γ = 120.0 pcf	γ = 120.0 pcf

332+00

SCALE: 1"=10'

CUT LIMITS FROM +/-STATION 325+25 TO +/-STATION 339+75

150 100 50 0 50 100 150

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

MAINLINE CUT STABILITY SECTIONS
STA. 332+00 AND STA. 336+50

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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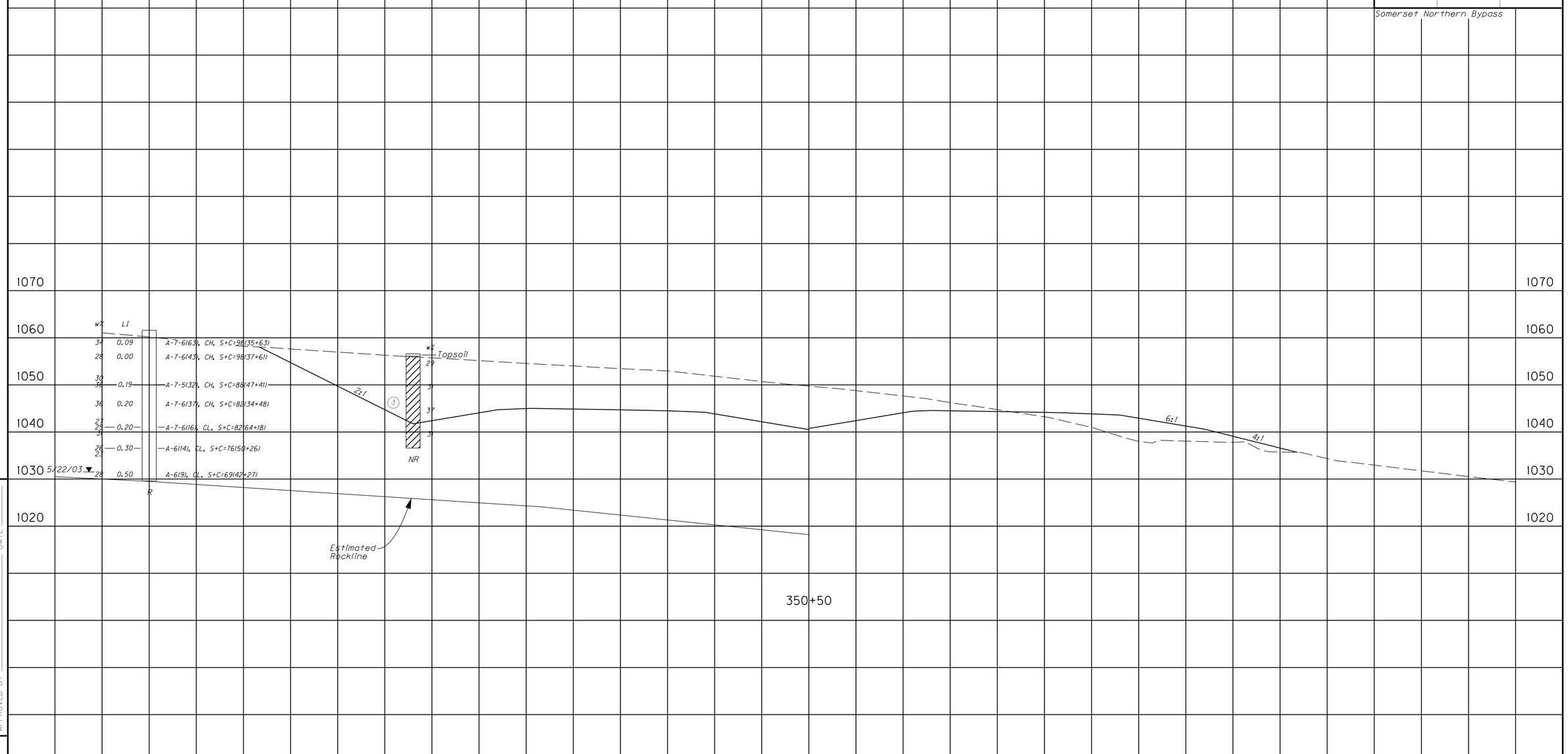
Cell Name: ssp
3/17/2014

LX2003015/3015KS1.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R131

Somerset Northern Bypass



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

CUT LIMITS FROM +/-STATION 349+75 TO +/-STATION 351+75

MAINLINE CUT STABILITY SECTION
STA. 350+50

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: ssp
3/17/2014

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COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R132

Somerset Northern Bypass

SUMMARY OF LABORATORY TEST DATA

Station	Offset	Sample Depth	w(%)	LI	Classification AASHTO	Classification USCS	% Silt	% Clay
362+50	210' Lt.	2.3-2.8	29	0.20	A-7-6(33)	CH	34	55
362+50	210' Lt.	2.9-3.4	28	-	-	-	-	-
362+50	210' Lt.	5.6-6.1	32	0.13	A-7-6(29)	CH	19	67
362+50	210' Lt.	10.4-10.9	27	-	-	-	-	-
362+50	210' Lt.	10.9-11.4	26	0.24	A-7-6(19)	CL	27	43
362+50	210' Lt.	15.0-15.5	28	0.05	A-7-6(12)	CL	18	47
362+50	210' Lt.	20.3-20.8	44	0.29	A-7-6(58)	CH	15	76
362+50	210' Lt.	25.0-25.5	37	-	-	-	-	-
362+50	210' Lt.	25.6-26.1	39	0.25	A-7-6(58)	CH	43	53
362+50	210' Lt.	30.0-30.5	32	0.12	A-7-6(51)	CH	38	55
362+50	210' Lt.	35.2-35.7	30	0.18	A-7-6(39)	CH	42	48
362+50	210' Lt.	40.0-40.5	47	-	-	-	-	-
362+50	210' Lt.	40.5-41.0	63	0.90	A-7-6(43)	CH	53	43
362+50	210' Lt.	41.0-41.5	55	-	-	-	-	-
362+50	210' Lt.	45.0-45.5	57	0.86	A-7-6(39)	CH	56	41
362+50	210' Lt.	45.6-46.1	81	-	-	-	-	-

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

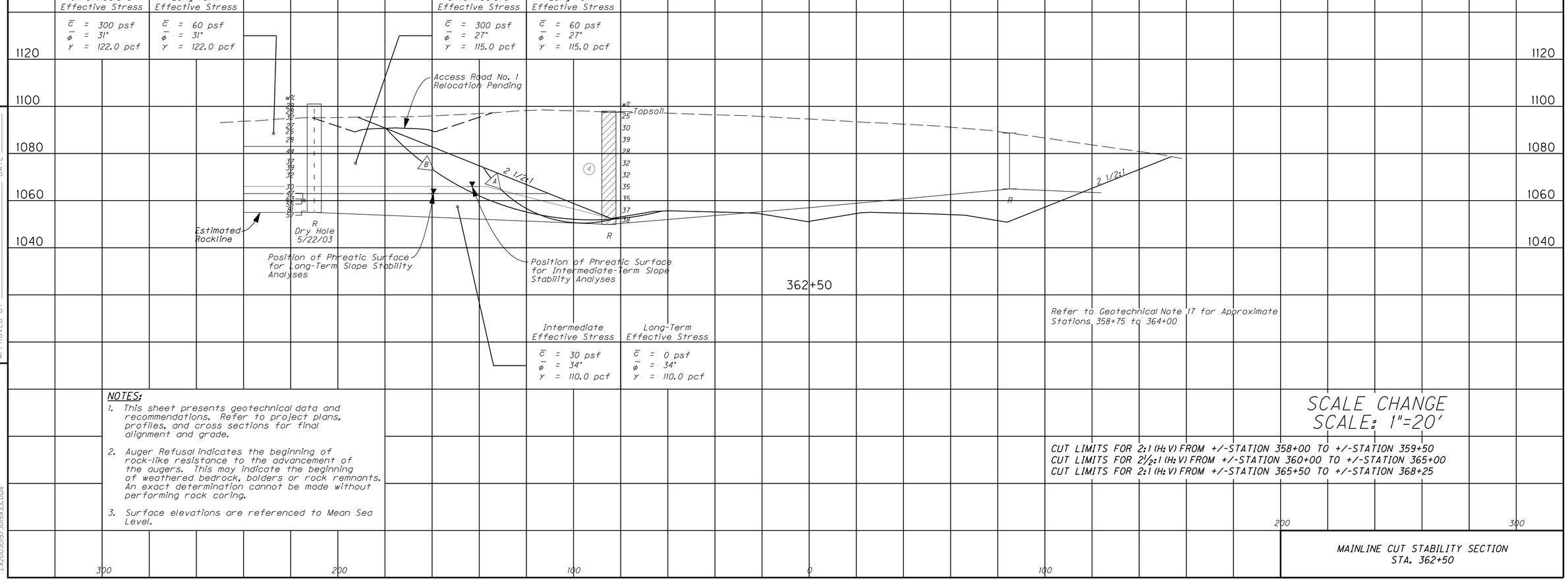
Location	362+50, 210.0' Lt.	362+50, 210.0' Lt.	362+50, 210.0' Lt.
Depth	2.9'-3.4'	10.4'-10.9'	15.0'-15.5'
$\bar{\phi}$	31.2°		
$\bar{c}$	370 psf		
Location	362+50, 210.0' Lt.	362+50, 210.0' Lt.	362+50, 210.0' Lt.
Depth	40.5'-41.0'	41.0'-41.5'	45.0'-45.5'
$\bar{\phi}$	33.9°		
$\bar{c}$	30 psf		

ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
361+00	85' Rt.	37.1	1050.3	-
364+00	85' Lt.	35.6	1058.6	-
366+00	85' Lt.	23.7	1054.0	-

SUMMARY OF SLOPE STABILITY ANALYSES

Failure Surface	Slope Condition	Failure Mode	Analysis Condition	Factor of Safety
Not Shown	2:1 (H:V)	Rotational	Intermediate	1.4
Not Shown	2:1 (H:V)	Rotational	Long-Term	1.2
A	2 1/2:1 (H:V)	Rotational	Intermediate	1.5
B	2 1/2:1 (H:V)	Rotational	Long-Term	1.4



Refer to Geotechnical Note 17 for Approximate Stations 358+75 to 364+00

SCALE CHANGE
SCALE: 1"=20'

CUT LIMITS FOR 2:1 (H:V) FROM +/-STATION 358+00 TO +/-STATION 359+50
CUT LIMITS FOR 2½:1 (H:V) FROM +/-STATION 360+00 TO +/-STATION 365+00
CUT LIMITS FOR 2:1 (H:V) FROM +/-STATION 365+50 TO +/-STATION 368+25

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

MAINLINE CUT STABILITY SECTION
STA. 362+50

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: ssp
3/17/2014

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COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R133

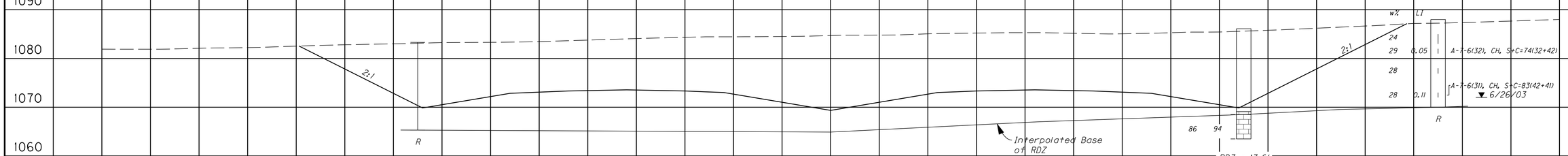
Somerset Northern Bypass

ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
385+00	85' Lt.	17.8	1070.8	-
386+00	85' Lt.	18.4	1070.2	-
386+00	85' Rt.	21.3	1069.4	-

Core Log Station 384+00, 85' Rt.

Elev. 1086.1 - 1068.5 Overburden
1068.5 - 1063.5 Limestone, gray, microcrystalline to fine grained, medium to thick bedded



384+00

CUT LIMITS FROM +/-STATION 382+00 TO +/-STATION 400+25

ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
372+00	85' Rt.	25.0	-	1054.7
374+00	85' Lt.	19.0	-	1057.0
376+00	85' Lt.	19.0	-	1059.0

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

Location	373+00, 135.0' Rt.	373+00, 135.0' Rt.	373+00, 135.0' Rt.
Depth	5.5'-6.0'	15.0'-15.5'	15.8'-16.3'
$\bar{\phi}$	29.6°		
$\bar{c}$	410 psf		

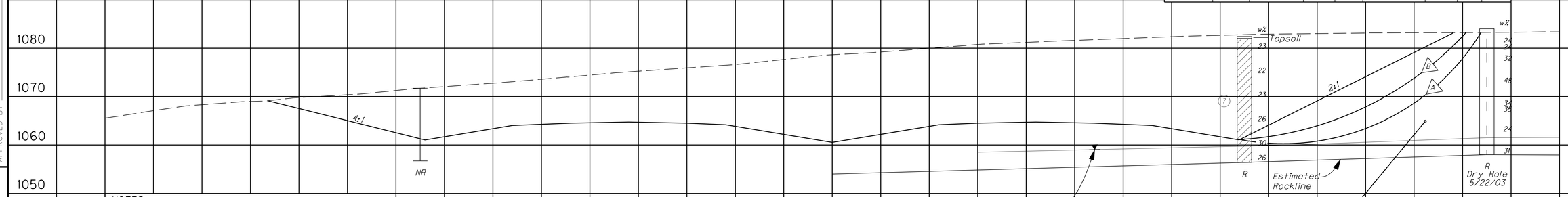
FACTORS OF SAFETY

A Intermediate (Rotational) 2.3

B Long-Term (Rotational) 1.5

SUMMARY OF LABORATORY TEST DATA

Station	Offset	Sample Depth	w(%)	LI	Classification AASHTO	Classification USCS	% Silt	% Clay
373+00	135' Rt.	2.0-2.5	24	0.07	A-7-6(22)	CH/CL	26	52
373+00	135' Rt.	2.5-3.0	24	-	-	-	-	-
373+00	135' Rt.	5.5-6.0	32	0.03	A-7-5(25)	CH	19	56
373+00	135' Rt.	10.0-10.4	48	-	-	-	-	-
373+00	135' Rt.	15.0-15.5	34	-	-	-	-	-
373+00	135' Rt.	15.8-16.3	35	0.42	A-7-6(25)	CH	22	49
373+00	135' Rt.	20.6-21.1	24	-	-	-	-	-
373+00	135' Rt.	25.0-25.5	31	0.16	A-7-6(28)	CH	26	47



Intermediate Effective Stress	Long-Term Effective Stress
$\bar{c}$ = 250 psf	$\bar{c}$ = 50 psf
$\bar{\phi}$ = 29°	$\bar{\phi}$ = 29°
γ = 120.0 pcf	γ = 120.0 pcf

373+00

SCALE CHANGE
SCALE: 1"=10'

CUT LIMITS FROM +/-STATION 370+75 TO +/-STATION 378+00

NOTES:

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3. Surface elevations are referenced to Mean Sea Level.

Refer to Geotechnical Note 17 for Approximate Stations 369+90 to 376+00

150 100 50 0 50 100 150

MAINLINE CUT STABILITY SECTIONS
STA. 373+00 AND STA. 384+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: ssp
3/17/2014

LX20030I5/30I5X54.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R134

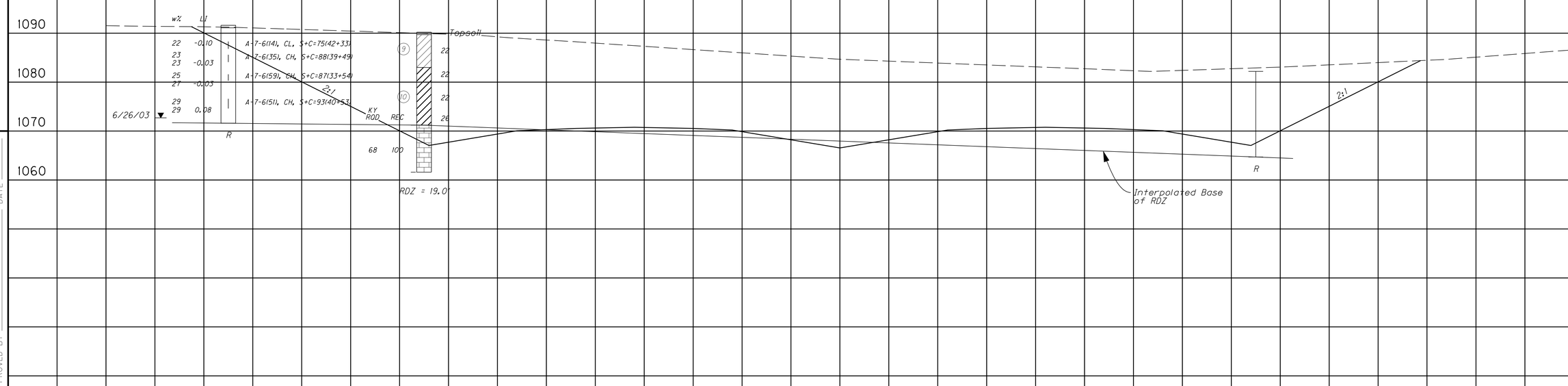
Somerset Northern Bypass

ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
387+00	85' Lt.	19.1	1068.2	-
388+00	85' Lt.	19.4	1068.8	-
388+00	85' Rt.	18.7	1068.1	-
390+00	85' Lt.	18.9	1070.4	-
390+00	85' Rt.	18.3	1062.5	-
391+00	85' Lt.	19.2	1065.3	-

Core Log Station 389+00, 85' Lt.

Elev. 1090.1 - 1071.2 Overburden
1071.2 - 1061.4 Limestone, gray, microcrystalline to fine grained, thin to medium bedded, with occasional shale zones



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

CUT LIMITS FROM +/-STATION 382+00 TO +/-STATION 400+25

MAINLINE CUT STABILITY SECTION
STA. 389+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: ssp
3/17/2014

LY2003015/3015XS5.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R135

Somerset Northern Bypass

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

Location	399+00, 110.0' Lt.	394+50, 165.0' Lt.	399+00, 110.0' Lt.
Depth	2.0'-2.5'	2.6'-3.1'	5.0'-5.9'
$\bar{\phi}$	25.3°		
$\bar{c}$	540 psf		

FACTORS OF SAFETY

A Intermediate (Rotational) 1.9

B Long-Term (Rotational) 1.4

Intermediate Effective Stress	Long-Term Effective Stress
$\bar{c}$ = 250 psf	$\bar{c}$ = 50 psf
$\bar{\phi}$ = 25°	$\bar{\phi}$ = 25°
γ = 119.0 pcf	γ = 119.0 pcf

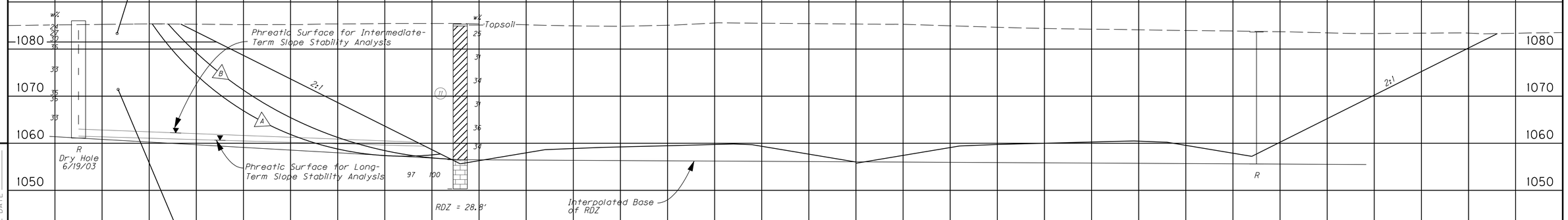
ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
392+00	85' Lt.	19.8	1058.4	-
392+00	85' Rt.	27.1	1057.9	-
393+00	85' Lt.	23.0	1055.5	-

Core Log Station 394+50, 84' Lt.

Elev. 1085.3 - 1056.5 Overburden

1056.5 - 1050.3 Limestone, gray, microcrystalline to fine grained, thin to medium bedded



Intermediate Effective Stress	Long-Term Effective Stress
$\bar{c}$ = 200 psf	$\bar{c}$ = 40 psf
$\bar{\phi}$ = 29°	$\bar{\phi}$ = 29°
γ = 115.0 pcf	γ = 115.0 pcf

SUMMARY OF LABORATORY TEST DATA

Station	Offset	Sample Depth	w(%)	LI	Classification AASHTO	Classification USCS	% Silt	% Clay
394+50	165' Lt.	2.0-2.5	24	-	-	-	-	-
394+50	165' Lt.	2.6-3.1	27	-	-	-	-	-
394+50	165' Lt.	3.2-3.7	30	0.23	A-7-6(43)	CH	24	61
394+50	165' Lt.	5.1-5.6	36	0.19	A-7-6(17)	SC	12	35
394+50	165' Lt.	10.0-10.5	33	0.17	A-7-6(42)	CH	20	63
394+50	165' Lt.	15.0-15.5	35	-	-	-	-	-
394+50	165' Lt.	15.5-16.0	36	0.16	A-7-5(41)	CH	42	52
394+50	165' Lt.	20.0-20.4	33	0.08	A-7-6(31)	CH	24	39

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

CUT LIMITS FROM +/-STATION 382+00 TO +/-STATION 400+25

MAINLINE CUT STABILITY SECTION
STA. 394+50

150 100 50 0 50 100

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: ssp
3/17/2014

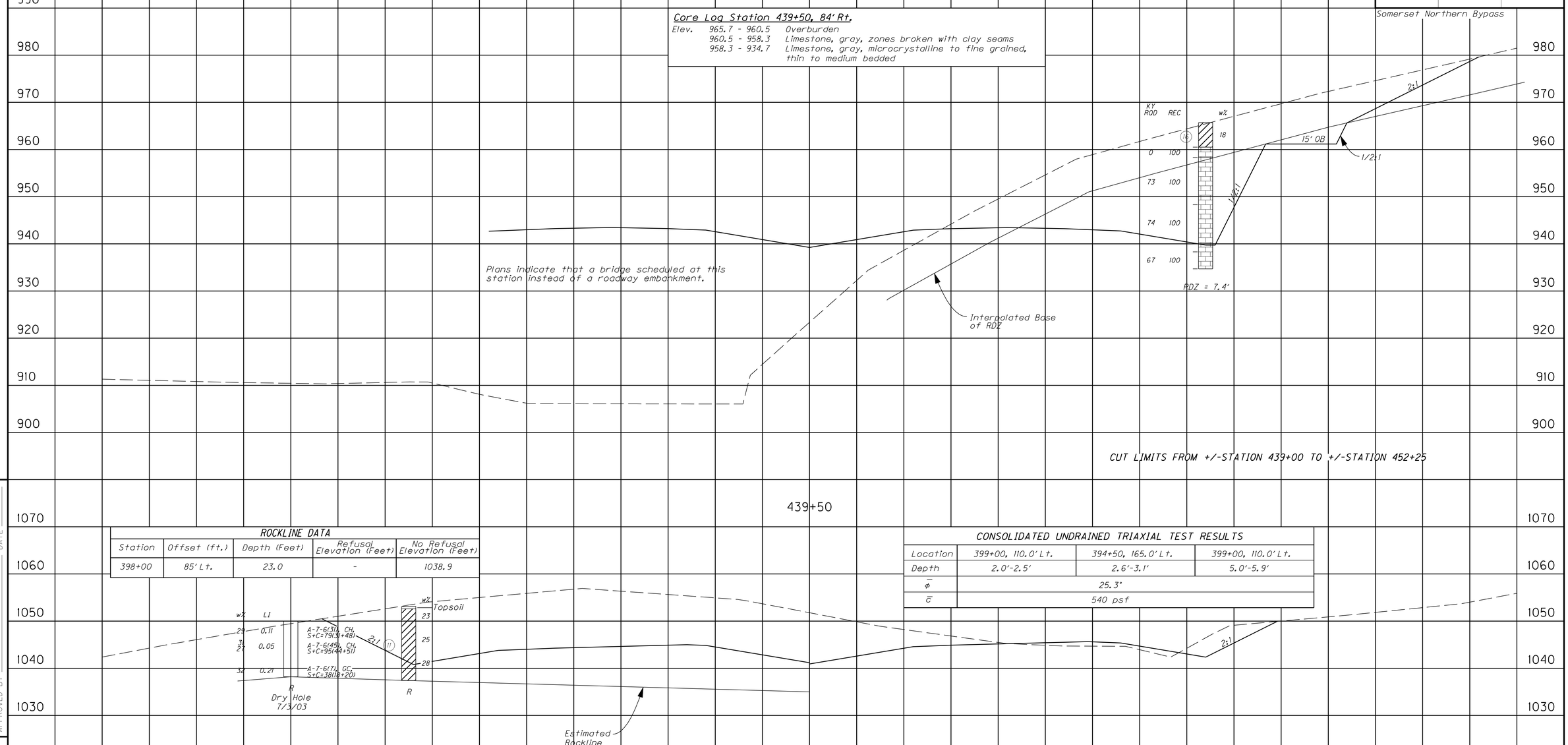
LX2003015/3015K55A.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R136

Somerset Northern Bypass

Core Log Station 439+50, 84' Rt.

Elev.		
	965.7 - 960.5	Overburden
	960.5 - 958.3	Limestone, gray, zones broken with clay seams
	958.3 - 934.7	Limestone, gray, microcrystalline to fine grained, thin to medium bedded



ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
398+00	85' Lt.	23.0	-	1038.9

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

Location	399+00, 110.0' Lt.	394+50, 165.0' Lt.	399+00, 110.0' Lt.
Depth	2.0'-2.5'	2.6'-3.1'	5.0'-5.9'
$\bar{\phi}$	25.3°		
$\bar{c}$	540 psf		

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

MAINLINE CUT STABILITY SECTIONS
STA. 399+00 AND STA. 439+50

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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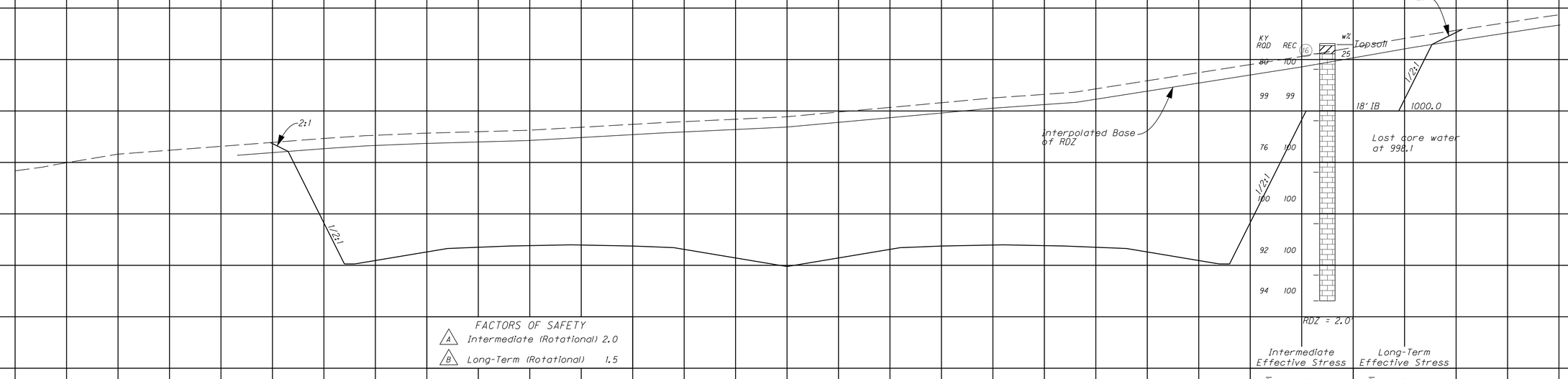
Cell Name: ssp
3/17/2014
LX2003015/3015X56.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R137

Somerset Northern Bypass

Core Log Station 449+50, 105' Rt.

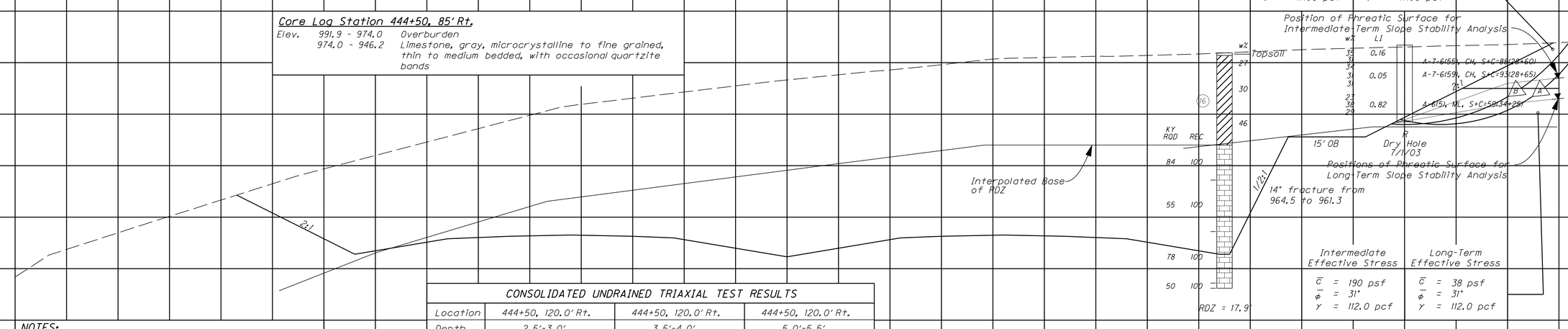
Elev. 1013.1 - 1011.1 Overburden
1011.1 - 963.1 Limestone, gray, microcrystalline to fine grained, thin to medium bedded, with occasional quartzite bands



FACTORS OF SAFETY
A Intermediate (Rotational) 2.0
B Long-Term (Rotational) 1.5

Core Log Station 444+50, 85' Rt.

Elev. 991.9 - 974.0 Overburden
974.0 - 946.2 Limestone, gray, microcrystalline to fine grained, thin to medium bedded, with occasional quartzite bands



CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

Location	444+50, 120.0' Rt.	444+50, 120.0' Rt.	444+50, 120.0' Rt.
Depth	2.5'-3.0'	3.5'-4.0'	5.0'-5.5'
$\bar{\phi}$	29.3°		
$\bar{c}$	460 psf		

SCALE: 1"=10'

CUT LIMITS FROM +/-STATION 439+00 TO +/-STATION 452+25

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
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3. Surface elevations are referenced to Mean Sea Level.

MAINLINE CUT STABILITY SECTIONS
STA. 444+50 AND STA. 449+50

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

...\plandgns\R137000GT.dgn
Cell Name: ssp
3/17/2014

LX2003015/3015KS7.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R138

Somerset Northern Bypass

ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
461+00	85' Rt.	13.3	1011.8	-
463+00	85' Rt.	21.3	1018.7	-
465+00	100' Rt.	31.6	1024.7	-
467+00	85' Rt.	33.0	1028.2	-
469+00	85' Rt.	17.0	1028.2	-

SUMMARY OF SLOPE STABILITY ANALYSES

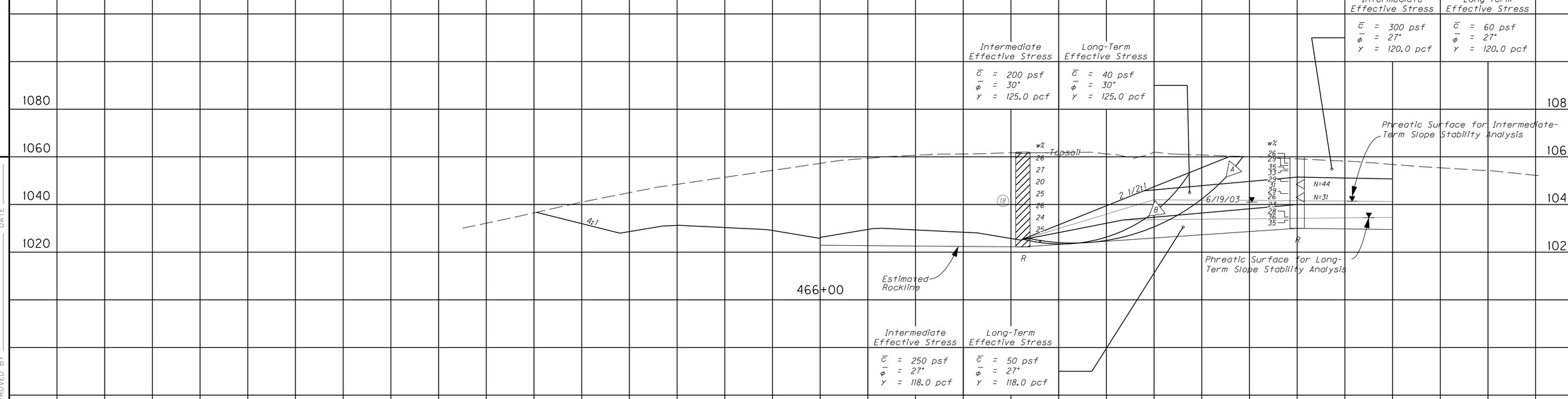
Failure Surface	Slope Condition	Failure Mode	Analysis Condition	Factor of Safety
Not Shown	2:1 (H:V)	Rotational	Intermediate	1.5
Not Shown	2:1 (H:V)	Rotational	Long-Term	1.2
A	2 1/2:1 (H:V)	Rotational	Intermediate	1.7
B	2 1/2:1 (H:V)	Rotational	Long-Term	1.4

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

Location	466+00, 200.0' Rt.	466+00, 200.0' Rt.	466+00, 200.0' Rt.
Depth	2.6'-3.1'	5.0'-5.5'	5.6'-6.1'
$\bar{\phi}$	27.6°		
$\bar{c}$	440 psf		

SUMMARY OF LABORATORY TEST DATA

Station	Offset	Sample Depth	w(%)	LI	Classification AASHTO	Classification USCS	% Silt	% Clay
466+00	200' Rt.	2.0-2.5	26	-	-	-	-	-
466+00	200' Rt.	2.6-3.1	29	-0.14	A-7-5(37)	MH	21	68
466+00	200' Rt.	5.0-5.5	35	-	-	-	-	-
466+00	200' Rt.	5.6-6.1	33	-0.07	A-7-5(50)	CH	18	76
466+00	200' Rt.	10.5-12.0	31	0.29	A-7-6(11)	GC	16	31
466+00	200' Rt.	15.0-15.6	29	0.12	A-7-6(13)	CH	19	34
466+00	200' Rt.	16.0-17.5	26	0.15	A-7-6(11)	GC	16	31
466+00	200' Rt.	20.6-21.1	23	0.03	A-7-6(18)	CH	32	30
466+00	200' Rt.	25.0-25.5	28	-	-	-	-	-
466+00	200' Rt.	25.6-26.1	36	0.19	A-7-6(38)	CH	32	46
466+00	200' Rt.	26.2-26.7	35	-	-	-	-	-



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE CHANGE
SCALE: 1"=20'

CUT LIMITS FOR 2:1 (H:V) FROM +/-STATION 459+50 TO +/-STATION 463+00
CUT LIMITS FOR 2½:1 (H:V) FROM +/-STATION 463+50 TO +/-STATION 468+00
CUT LIMITS FOR 2:1 (H:V) FROM +/-STATION 468+50 TO +/-STATION 469+25

MAINLINE CUT STABILITY SECTION
STA. 466+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: ssp
3/17/2014

LX2003015/3015KS8.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R139

Somerset Northern Bypass

ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
478+00	84' Lt.	28.0	-	1031.6
478+00	84' Rt.	25.0	-	1033.0
480+00	84' Lt.	24.1	1032.1	-
480+00	84' Rt.	27.0	-	1031.2
481+00	84' Rt.	26.0	-	1029.9
482+00	84' Lt.	24.6	1032.2	-

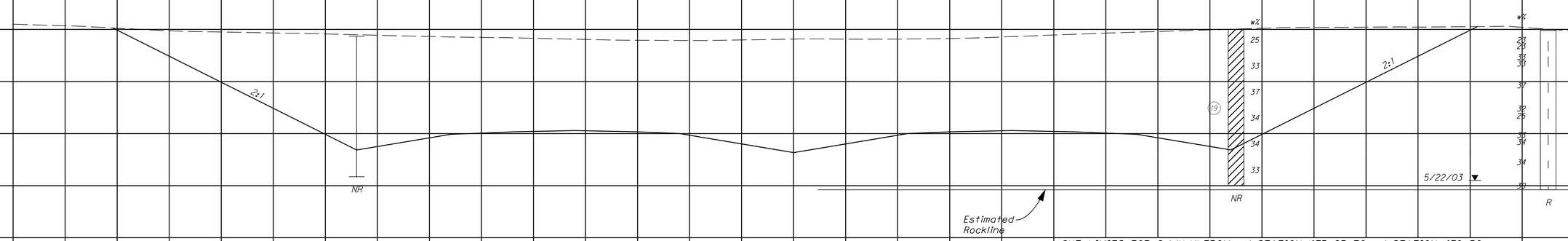
CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

Location	479+00, 145.0' Rt.	479+00, 145.0' Rt.	479+00, 145.0' Rt.
Depth	5.2'-5.7'	5.8'-6.3'	15.0'-15.5'
$\bar{\phi}$	26.8°		
$\bar{c}$	310 psf		

Location	479+00, 145.0' Rt.	479+00, 145.0' Rt.
Depth	2.6'-3.1'	3.2'-3.7'
$\bar{\phi}$	37.6°	
$\bar{c}$	360 psf	

SUMMARY OF LABORATORY TEST DATA

Station	Offset	Sample Depth	w(%)	LI	Classification AASHTO	Classification USCS	% Silt	% Clay
497+00	145' Rt.	2.6-3.1	23	-0.04	A-7-6(18)	CL	35	42
497+00	145' Rt.	3.2-3.7	23	-	-	-	-	-
497+00	145' Rt.	5.2-5.7	33	-	-	-	-	-
497+00	145' Rt.	5.8-6.3	33	0.08	A-7-5(37)	CH	25	63
497+00	145' Rt.	10.0-11.1	37	-	-	-	-	-
497+00	145' Rt.	15.0-15.5	32	-	-	-	-	-
497+00	145' Rt.	15.6-16.1	25	0.17	A-7-6(13)	CL	25	40
497+00	145' Rt.	20.0-20.5	33	-	-	-	-	-
497+00	145' Rt.	20.5-21.0	34	0.52	A-7-6(22)	CL/CH	33	42
497+00	145' Rt.	25.2-25.7	34	-	-	-	-	-
497+00	145' Rt.	30.0-30.4	39	-	-	-	-	-

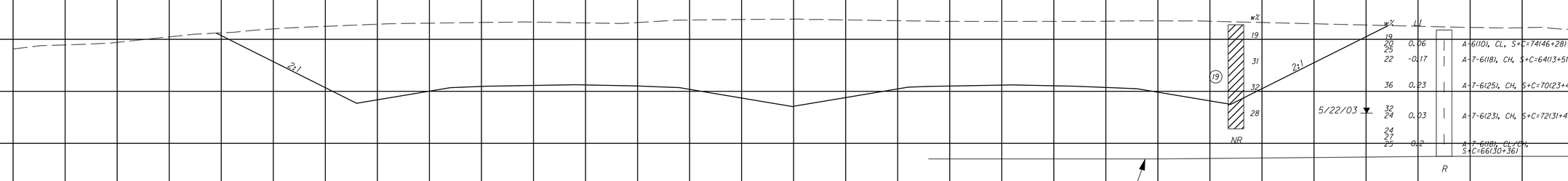


CUT LIMITS FOR 2:1 (H:V) FROM +/-STATION 475+25 TO +/-STATION 479+50
CUT LIMITS FOR 3:1 (H:V) FROM +/-STATION 480+50 TO +/-STATION 484+50
CUT LIMITS FOR 2 1/2:1 (H:V) FROM +/-STATION 485+00 TO +/-STATION 489+00
CUT LIMITS FOR 2:1 (H:V) FROM +/-STATION 489+50 TO +/-STATION 493+25

479+00

ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
474+00	85' Rt.	18.0	-	1032.5



473+00

SCALE CHANGE
SCALE: 1"=10'

CUT LIMITS FROM +/-STATION 471+75 TO +/-STATION 474+75

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

150 100 50 0 50 100 150

MAINLINE CUT STABILITY SECTIONS
STA. 473+00 AND STA. 479+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

...\plandgns\R13900GT.dgn
Cell Name: ssp
3/17/2014

LY2003015/3015X59.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R140

Somerset Northern Bypass

SUMMARY OF LABORATORY TEST DATA

Station	Offset	Sample Depth	w(%)	LI	Classification AASHTO	Classification USCS	% Silt	% Clay
485+00	160' Lt.	2.0-2.5	32	-	-	-	-	-
485+00	160' Lt.	2.8-3.3	29	-0.47	A-7-5(17)	MH	25	57
485+00	160' Lt.	5.0-5.5	24	-	-	-	-	-
485+00	160' Lt.	5.6-6.1	24	-0.19	A-7-6(16)	ML/MH	31	44
485+00	160' Lt.	6.2-6.7	24	-	-	-	-	-
485+00	160' Lt.	10.1-10.6	24	-0.14	A-7-6(16)	CL	29	46
485+00	160' Lt.	10.8-11.3	24	-	-	-	-	-
485+00	160' Lt.	15.0-15.5	28	-	-	-	-	-
485+00	160' Lt.	15.6-16.1	30	0.05	A-7-6(12)	ML	25	41
485+00	160' Lt.	20.0-20.5	34	0.38	A-7-6(19)	CH	23	41
485+00	160' Lt.	25.0-25.3	38	0.24	A-7-6(31)	CH	21	52
485+00	160' Lt.	30.0-30.3	37	0.33	A-7-6(23)	CH	21	36
485+00	160' Lt.	35.0-35.5	22	-	-	-	-	-
485+00	160' Lt.	35.6-36.1	17	0.35	A-6(2)	SC	18	22

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

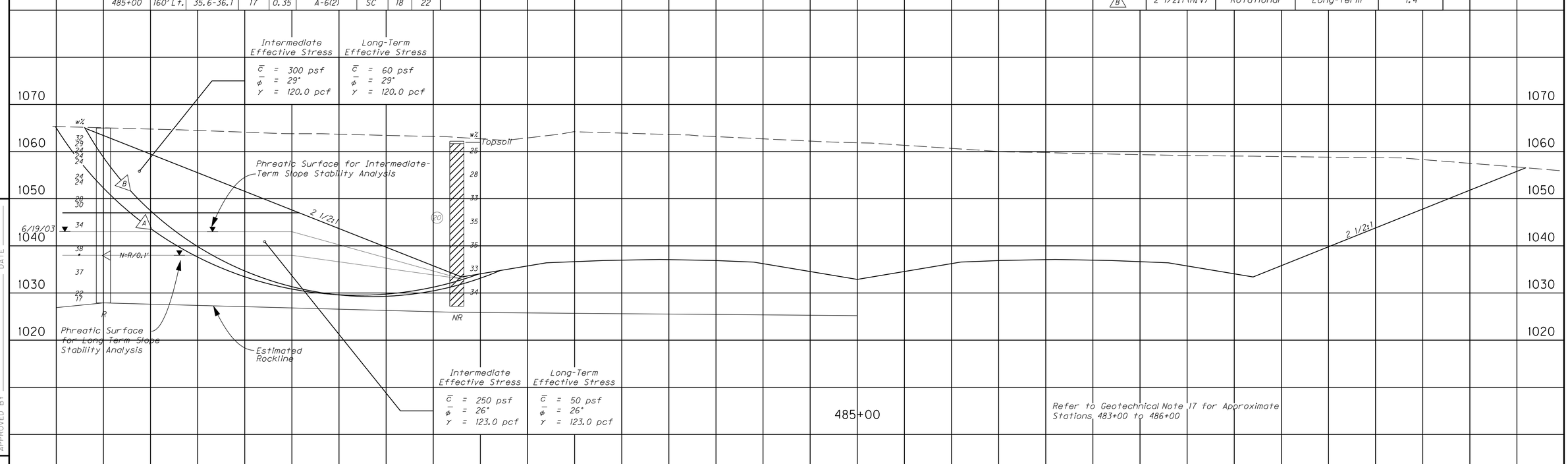
Location	485+00, 160.0' Lt.	485+00, 160.0' Lt.	485+00, 160.0' Lt.
Depth	5.6'-6.1'	6.2'-6.7'	10.1'-10.6'
$\bar{\phi}$	29.6°		
$\bar{c}$	830 psf		

ROCKLINE DATA

Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
486+00	84' Lt.	27.2	1030.4	-
486+00	84' Rt.	24.0	-	1027.7

SUMMARY OF SLOPE STABILITY ANALYSES

Failure Surface	Slope Condition	Failure Mode	Analysis Condition	Factor of Safety
Not Shown	2:1 (H:V)	Rotational	Intermediate	1.6
Not Shown	2:1 (H:V)	Rotational	Long-Term	1.3
A	2 1/2:1 (H:V)	Rotational	Intermediate	1.8
B	2 1/2:1 (H:V)	Rotational	Long-Term	1.4



Refer to Geotechnical Note 17 for Approximate Stations 483+00 to 486+00

NOTES:

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3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

CUT LIMITS FOR 2:1 (H:V) FROM +/-STATION 475+25 TO +/-STATION 479+50
CUT LIMITS FOR 3:1 (H:V) FROM +/-STATION 480+50 TO +/-STATION 484+50
CUT LIMITS FOR 2 1/2:1 (H:V) FROM +/-STATION 485+00 TO +/-STATION 489+00
CUT LIMITS FOR 2:1 (H:V) FROM +/-STATION 489+50 TO +/-STATION 493+25

MAINLINE CUT STABILITY SECTION
STA. 485+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: ssp
3/17/2014
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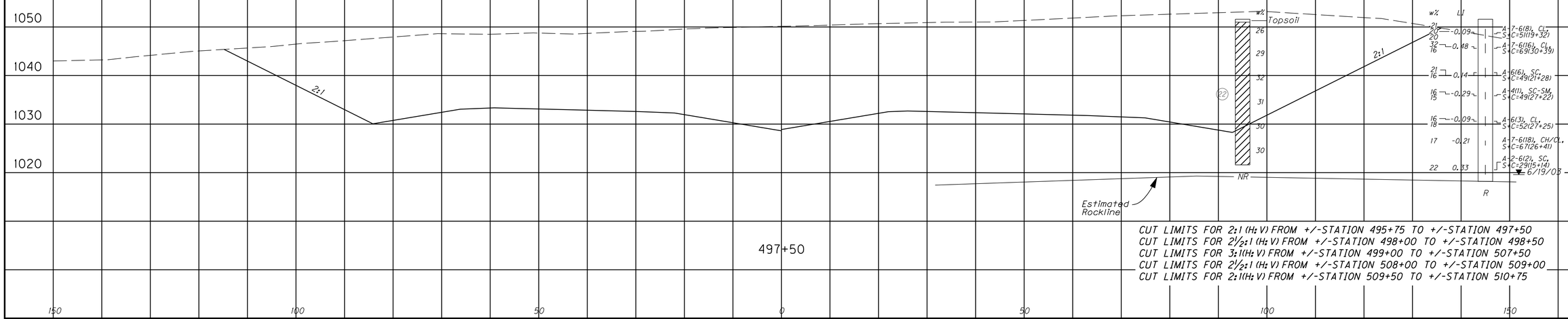
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R141

Somerset Northern Bypass

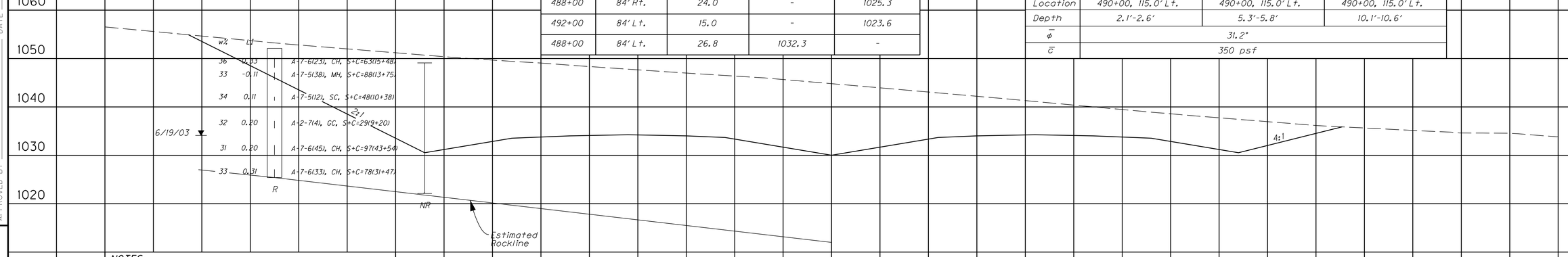
CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS			
Location	497+50, 145.0' Rt.	497+50, 145.0' Rt.	497+50, 145.0' Rt.
Depth	15.0'-15.5'	20.0'-20.5'	20.6'-21.1'
$\bar{\phi}$	32.3°		
$\bar{c}$	320 psf		



CUT LIMITS FOR 2:1 (H:V) FROM +/-STATION 495+75 TO +/-STATION 497+50
CUT LIMITS FOR 2½:1 (H:V) FROM +/-STATION 498+00 TO +/-STATION 498+50
CUT LIMITS FOR 3:1(H:V) FROM +/-STATION 499+00 TO +/-STATION 507+50
CUT LIMITS FOR 2½:1 (H:V) FROM +/-STATION 508+00 TO +/-STATION 509+00
CUT LIMITS FOR 2:1(H:V) FROM +/-STATION 509+50 TO +/-STATION 510+75

ROCKLINE DATA				
Station	Offset (ft.)	Depth (Feet)	Refusal Elevation (Feet)	No Refusal Elevation (Feet)
488+00	84' Rt.	24.0	-	1025.3
492+00	84' Lt.	15.0	-	1023.6
488+00	84' Lt.	26.8	1032.3	-

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS			
Location	490+00, 115.0' Lt.	490+00, 115.0' Lt.	490+00, 115.0' Lt.
Depth	2.1'-2.6'	5.3'-5.8'	10.1'-10.6'
$\bar{\phi}$	31.2°		
$\bar{c}$	350 psf		



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

CUT LIMITS FROM +/-STATION 475+25 TO +/-STATION 493+25

MAINLINE CUT STABILITY SECTIONS
STA. 490+00 AND STA. 497+50

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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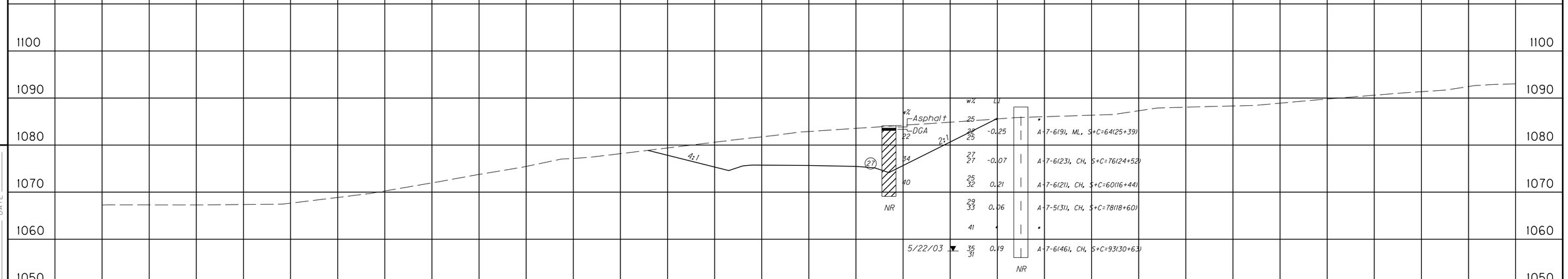
Cell Name: ssp
3/17/2014

LY2003015/3015X514.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R142

Somerset Northern Bypass



PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
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SCALE CHANGE
SCALE: 1"=20'

CUT LIMITS FROM +/-STATION 3+25 TO +/-STATION 6+75

150 100 50 0 50 100 150

K BODIE ROAD CUT STABILITY SECTION
STA. 3+50

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Cell Name: ssp
3/17/2014

LX2003015/3015KS1L.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R143

Somerset Northern Bypass

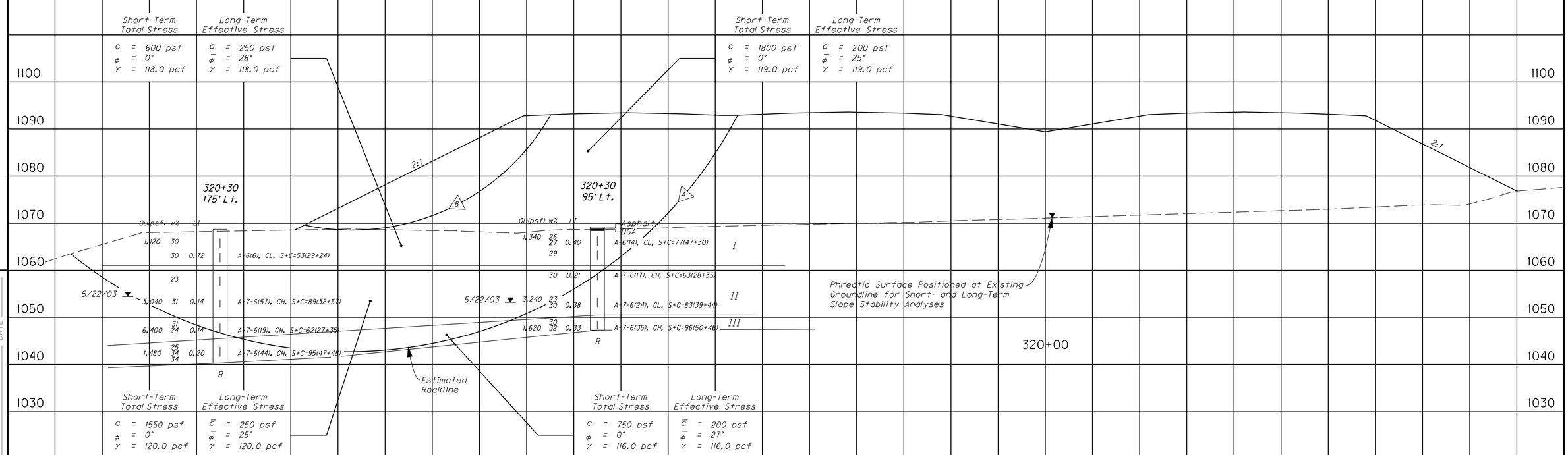
SETTLEMENT ANALYSIS DATA

Soil	H (ft.)	Pressure Diagram Values (psf)	Settlement Parameters
I	7.0	P_o = 413	e_o = 0.767
		P_f = 3,335	C_c = 0.290
		P_c = 3,411	C_r = 0.029
II	11.0	P_o = 1,470	e_o = 0.765
		P_f = 4,215	C_c = 0.275
		P_c = 8,708	C_r = 0.028
III	9.5	P_o = 2,104	e_o = 0.839
		P_f = 4,670	C_c = 0.312
		P_c = 3,139	C_r = 0.0311

FACTORS OF SAFETY

A Short-Term (Rotational) 2.3

B Long-Term (Rotational) 1.8



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

FILL LIMITS FROM +/-STATION 320+00 TO +/-STATION 325+25

Sheet 6 of 6

MAINLINE EMBANKMENT STABILITY SECTION
STA. 320+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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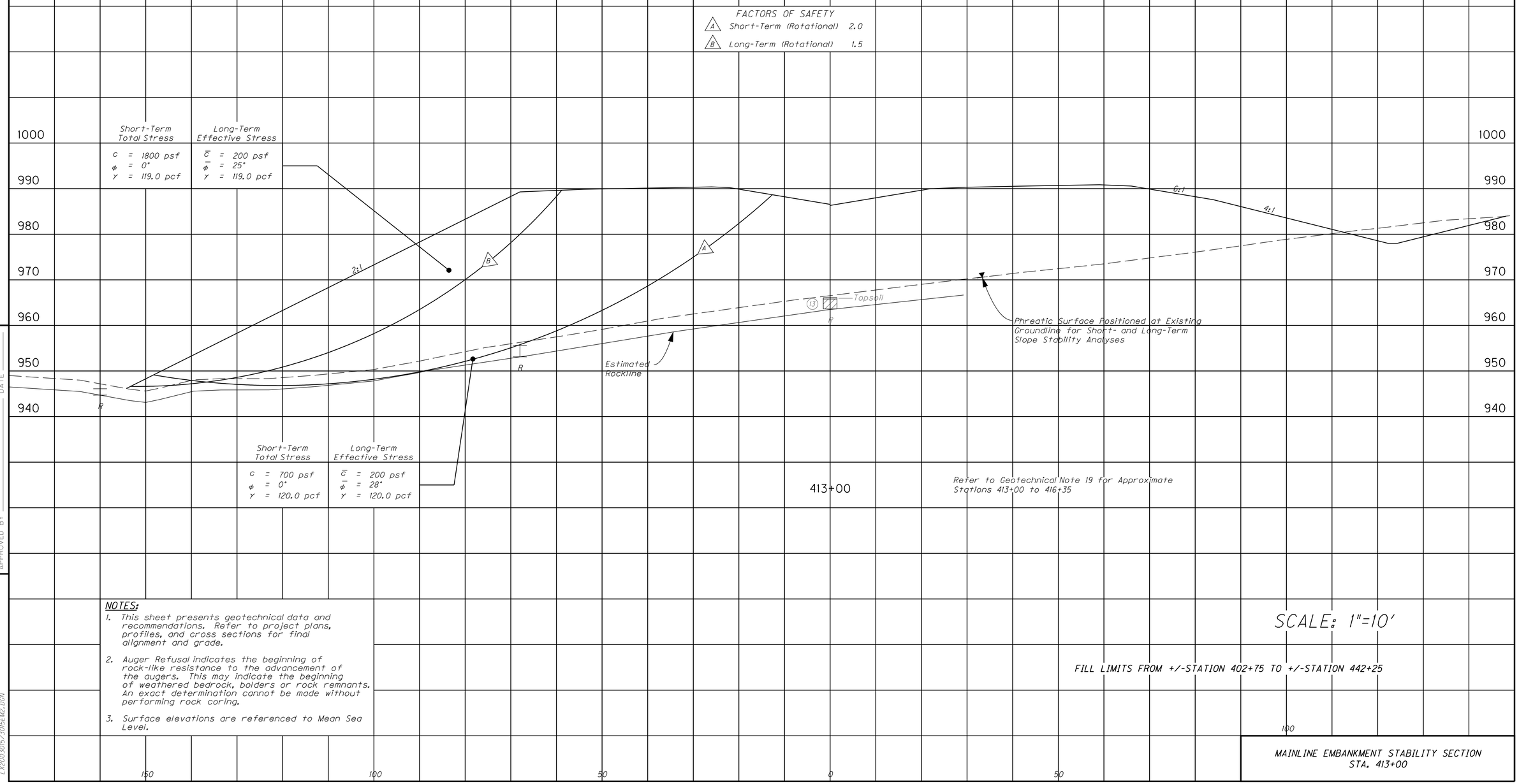
Cell Name: ssp
3/17/2014

LX2003015/STRUCTURES/166_US27&NSR/3015LOG6.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R144

Somerset Northern Bypass

FACTORS OF SAFETY
A Short-Term (Rotational) 2.0
B Long-Term (Rotational) 1.5



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

FILL LIMITS FROM +/-STATION 402+75 TO +/-STATION 442+25

MAINLINE EMBANKMENT STABILITY SECTION
STA. 413+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: ssp
3/17/2014

LY2003015/3015EM2.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R145

Somerset Northern Bypass

FACTORS OF SAFETY

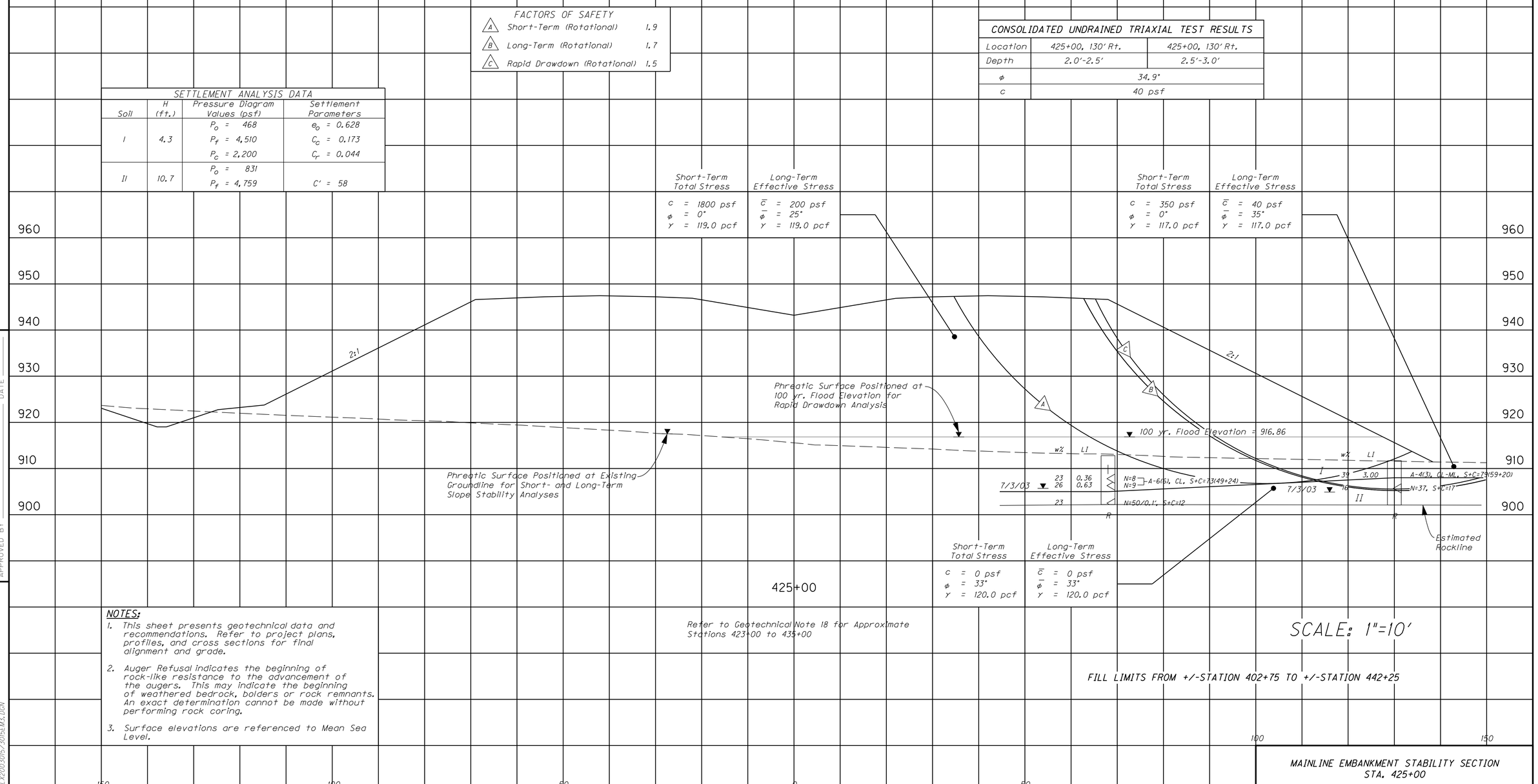
A	Short-Term (Rotational)	1.9
B	Long-Term (Rotational)	1.7
C	Rapid Drawdown (Rotational)	1.5

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

Location	425+00, 130' Rt.	425+00, 130' Rt.
Depth	2.0'-2.5'	2.5'-3.0'
ϕ	34.9°	
c	40 psf	

SETTLEMENT ANALYSIS DATA

Soil	H (ft.)	Pressure Diagram Values (psf)	Settlement Parameters
I	4.3	P_o = 468 P_f = 4,510 P_c = 2,200	e_o = 0.628 C_c = 0.173 C_r = 0.044
II	10.7	P_o = 831 P_f = 4,759	C' = 58



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

MAINLINE EMBANKMENT STABILITY SECTION
STA. 425+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

...\plandgns\R14500GT.dgn
Cell Name: ssp
3/17/2014

LX2003015/3015EM3.DGN

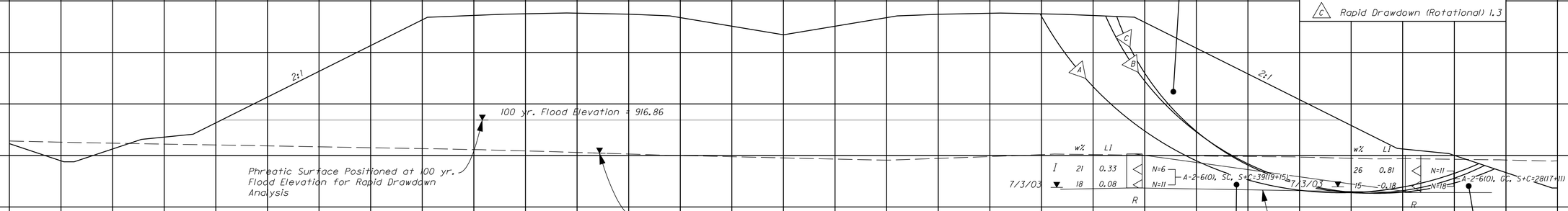
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R146

Somerset Northern Bypass

SETTLEMENT ANALYSIS DATA			
Soil	H (ft.)	Pressure Diagram Values (psf)	Settlement Parameters
I	7	P_o = 383	e_o = 0.563
		P_f = 3,550	C_c = 0.192
		P_c = 5,400	C_r = 0.045

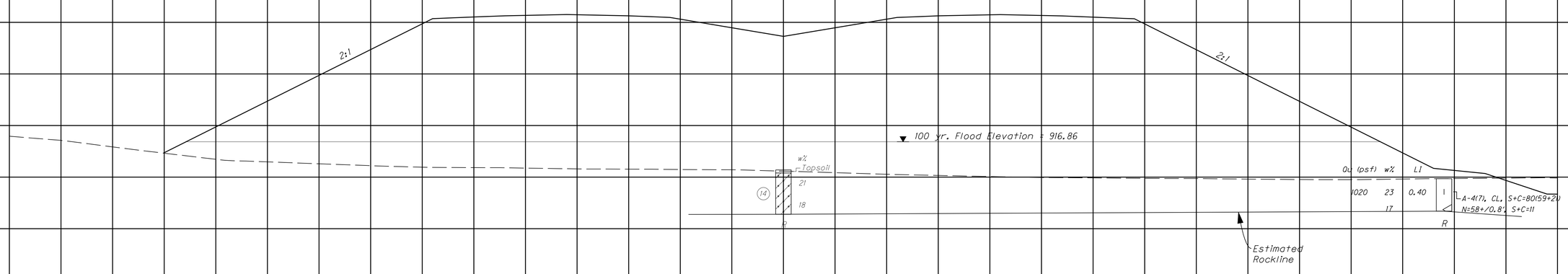
FACTORS OF SAFETY

A	Short-Term (Rotational)	2.6
B	Long-Term (Rotational)	1.6
C	Rapid Drawdown (Rotational)	1.3



Refer to Geotechnical Note 32 for Approximate Station 434+00, Right Shoulder

434+00



Refer to Geotechnical Note 30 for Approximate Stations 425+00 to 436+00

428+00

Refer to Geotechnical Note 18 for Approximate Stations 423+00 to 435+00

SCALE: 1"=10'

FILL LIMITS FROM +/-STATION 402+75 TO +/-STATION 442+25

NOTES:

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3. Surface elevations are referenced to Mean Sea Level.

MAINLINE EMBANKMENT STABILITY SECTIONS
STA. 428+00 AND STA. 434+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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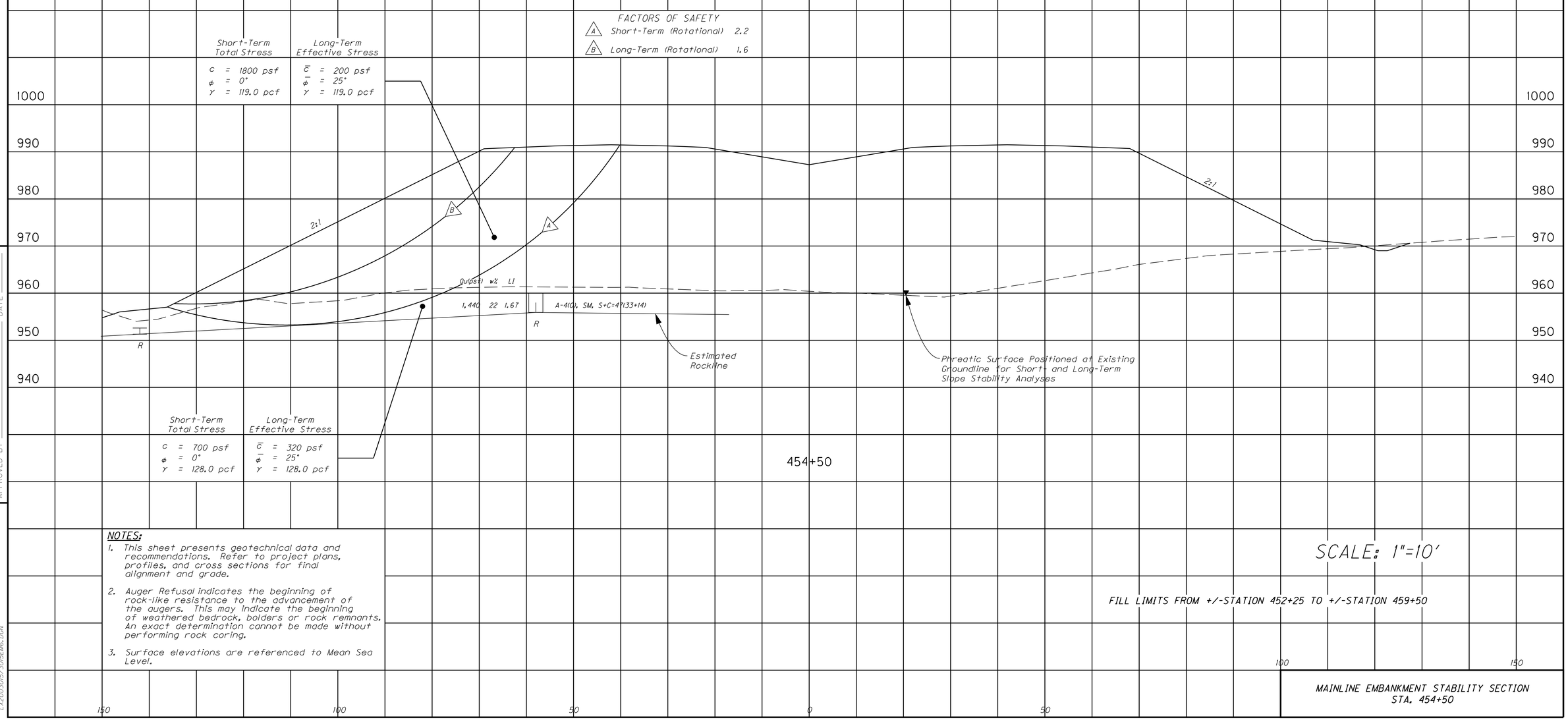
Cell Name: ssp
3/17/2014

LX2003015/3015EM4.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R147

Somerset Northern Bypass



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
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SCALE: 1"=10'

FILL LIMITS FROM +/-STATION 452+25 TO +/-STATION 459+50

MAINLINE EMBANKMENT STABILITY SECTION
STA. 454+50

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: ssp
3/17/2014

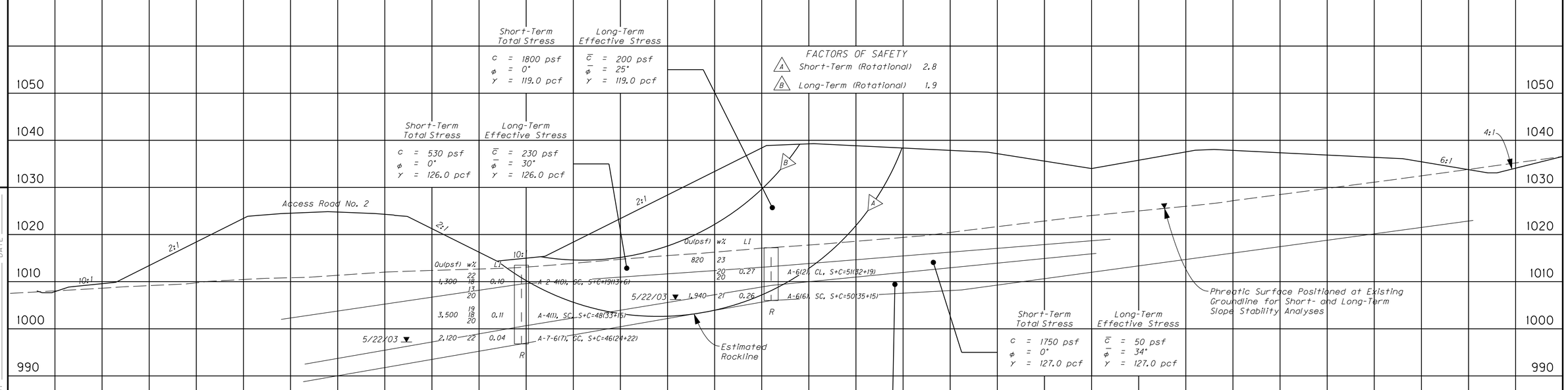
LX2003015/3015EM6.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R148

Somerset Northern Bypass

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

Location	470+00, 68.0' Lt.	470+00, 68.0' Lt.	470+00, 121.0' Lt.
Depth	5.1'-5.6'	5.6'-6.1'	10.0'-10.5'
$\bar{\phi}$	34.9°		
$\bar{c}$	50 psf		



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

FILL LIMITS FROM +/-STATION 469+25 TO +/-STATION 471+25

MAINLINE EMBANKMENT STABILITY SECTION
STA. 470+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: ssp
3/17/2014

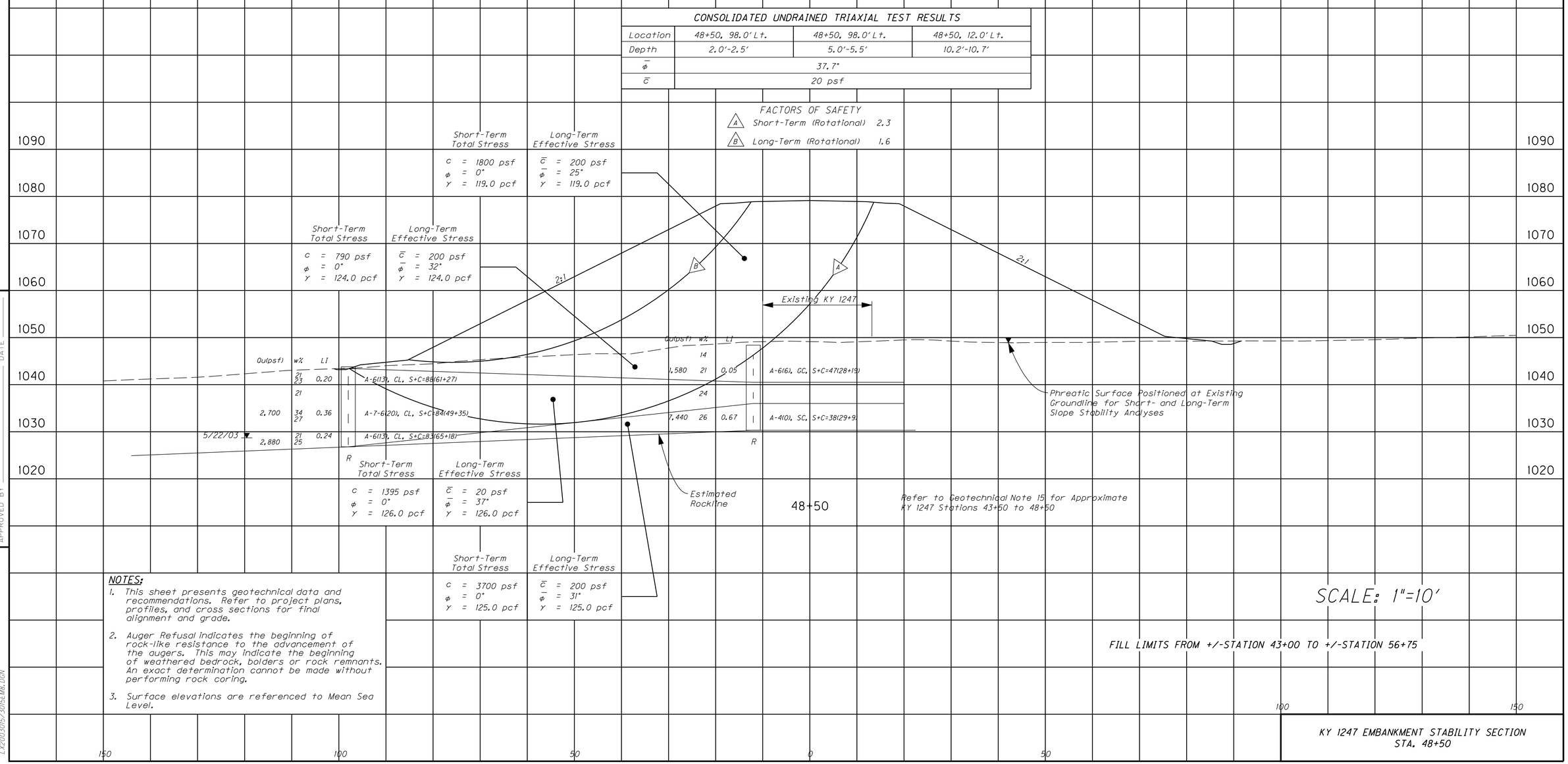
LX2003015/3015EM7.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R149

Somerset Northern Bypass

CONSOLIDATED UNDRAINED TRIAXIAL TEST RESULTS

Location	48+50, 98.0' Lt.	48+50, 98.0' Lt.	48+50, 12.0' Lt.
Depth	2.0'-2.5'	5.0'-5.5'	10.2'-10.7'
$\bar{\phi}$	37.7°		
$\bar{c}$	20 psf		



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

FILL LIMITS FROM +/-STATION 43+00 TO +/-STATION 56+75

KY 1247 EMBANKMENT STABILITY SECTION
STA. 48+50

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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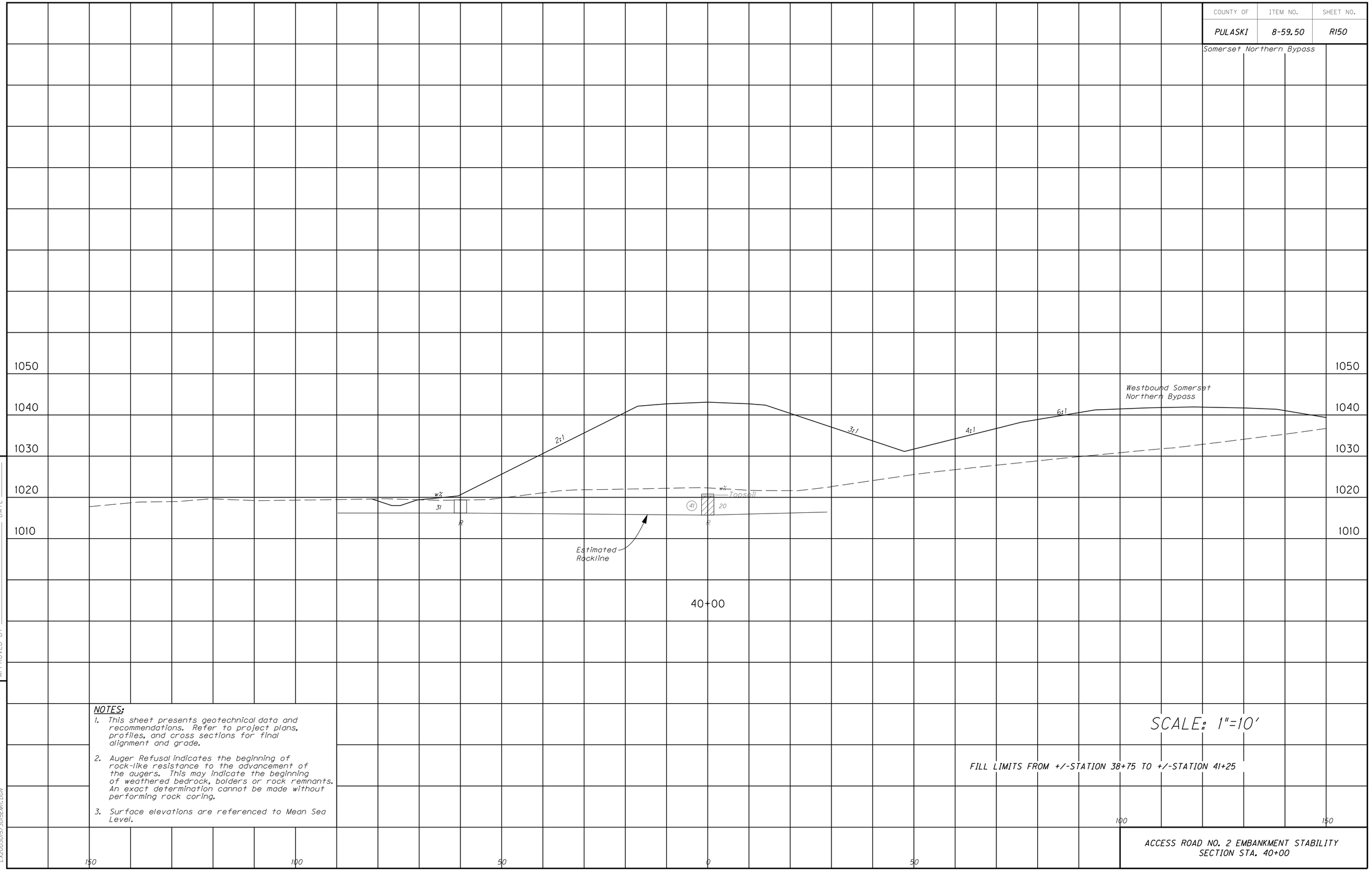
Cell Name: ssp
3/17/2014

LX20030157015EMB.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R150



NOTES:

1. This sheet presents geotechnical data and recommendations. Refer to project plans, profiles, and cross sections for final alignment and grade.
2. Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, bolders or rock remnants. An exact determination cannot be made without performing rock coring.
3. Surface elevations are referenced to Mean Sea Level.

SCALE: 1"=10'

FILL LIMITS FROM +/-STATION 38+75 TO +/-STATION 41+25

ACCESS ROAD NO. 2 EMBANKMENT STABILITY
SECTION STA. 40+00

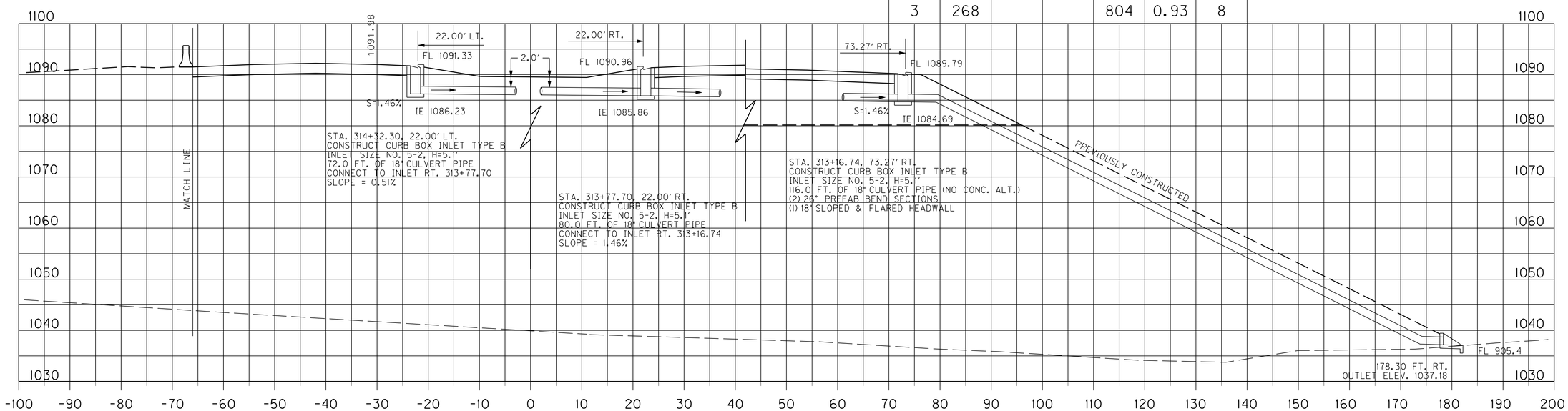
PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

...\plandgns\R15000GT.dgn
Cell Name: ssp
3/17/2014

LX2003015/3015EMIL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R151

DBI TYPE B	CULVERT PIPE 18" INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
3	268			804	0.93	8



PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

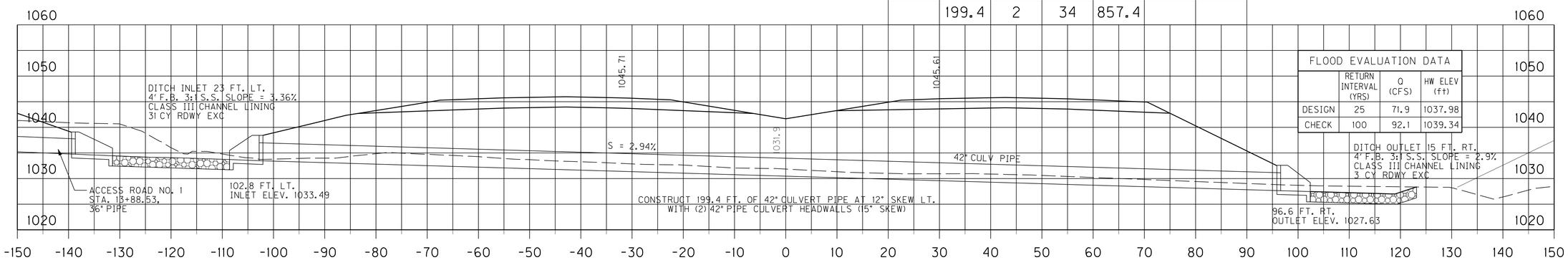
...\plandgns\R15100PS.dgn
Cell Name: sp
3/17/2014

JDO
I-32
FORM NO. 2

PIPE SECTIONS
313+16.74, 313+77.70 & 314+32.30

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R152

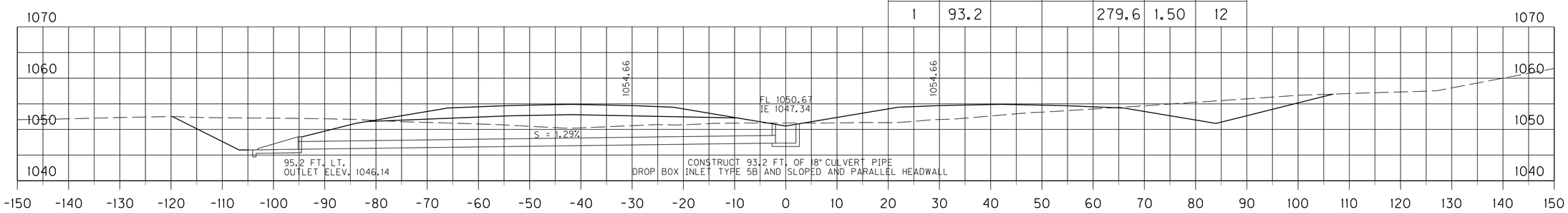
	CULVERT PIPE 42 INCH	PIPE CULVERT HEADWALL 42 IN	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES
	199.4	2	34	857.4



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	71.9	1037.98
CHECK	100	92.1	1039.34

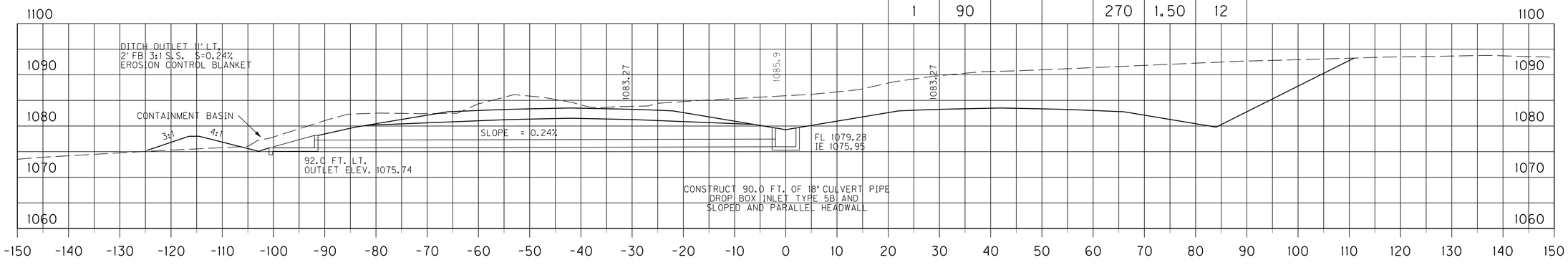
345+25.40
12° LT SKEW

	DBI TYPE 5B	CULVERT PIPE 18 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	1	93.2			279.6	1.50	12



339+50

	DBI TYPE 5B	CULVERT PIPE 18 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	1	90			270	1.50	12



328+50

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

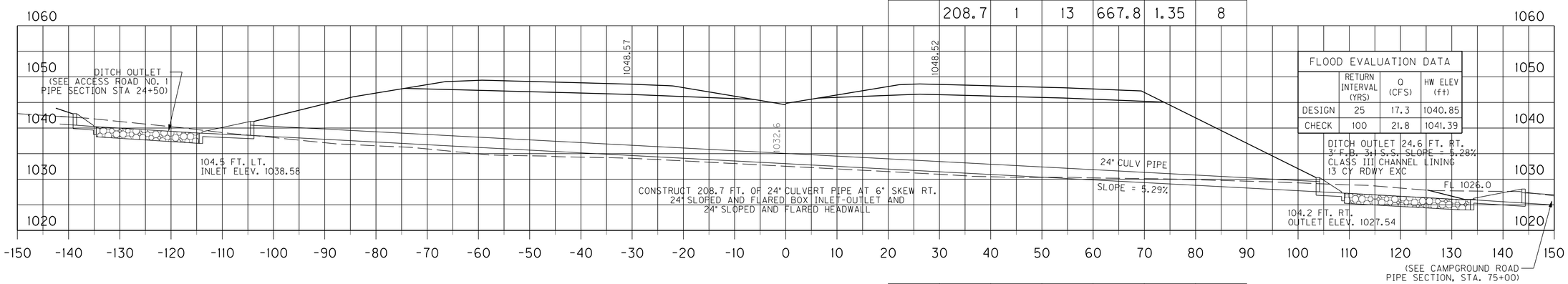
...\plandgns\R15200PS.dgn
Cell Name: sp
3/17/2014

JDG
1-92
FORM NO. 2

PIPE SECTIONS
STA. 328+50, 339+50 & 345+25.40

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R153

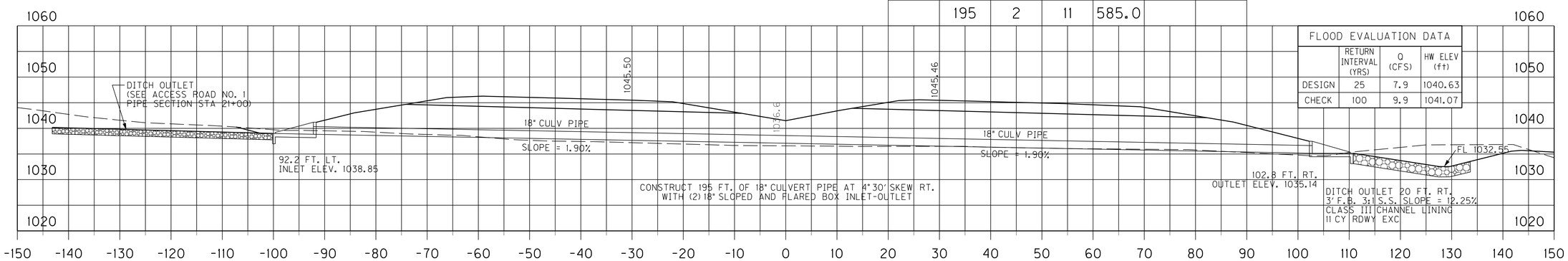
	CULVERT PIPE 24 INCH	S&F BOX IN-OUT 24 INCH	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	208.7	1	13	667.8	1.35	8



FLOOD EVALUATION DATA	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	17.3	1040.85
CHECK	100	21.8	1041.39

355+47.60
6° RT SKEW

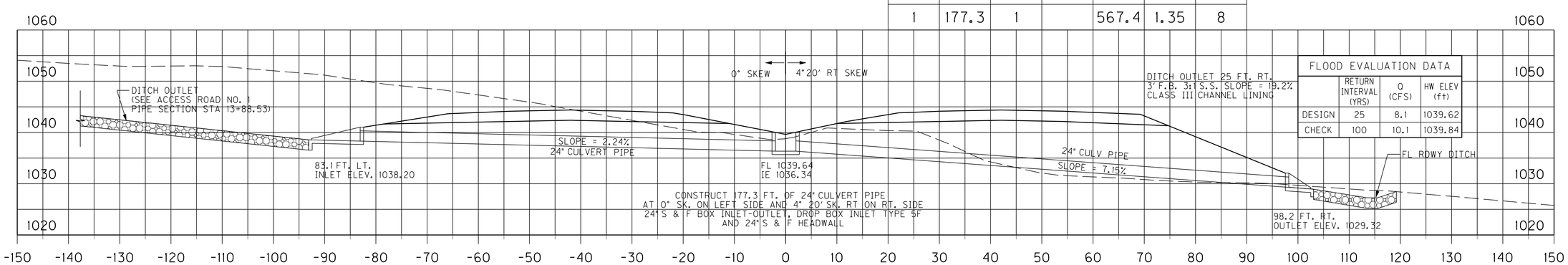
	CULVERT PIPE 18 INCH	S&F BOX IN-OUT 18 INCH	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES
	195	2	11	585.0



FLOOD EVALUATION DATA	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	7.9	1040.63
CHECK	100	9.9	1041.07

352+08.88
4° 30' RT SKEW

DBI TYPE 5F	CULVERT PIPE 24 INCH	S&F BOX IN-OUT 24 INCH		FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	177.3	1		567.4	1.35	8



FLOOD EVALUATION DATA	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	8.1	1039.62
CHECK	100	10.1	1039.84

348+77.53

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

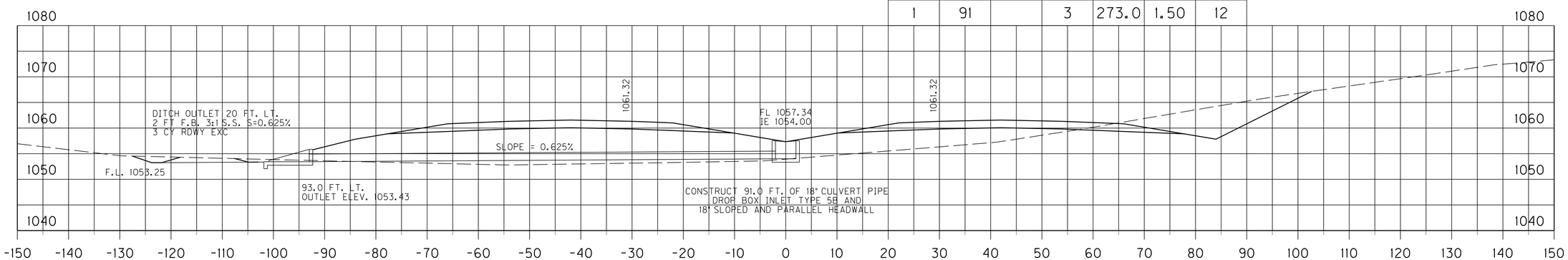
...\plandgns\R153001PS.dgn
Cell Name: sp
3/17/2014

JDD
1-92
FORM NO. 2

PIPE SECTIONS
STA. 348+77.53, 352+08.88 & 355+47.60

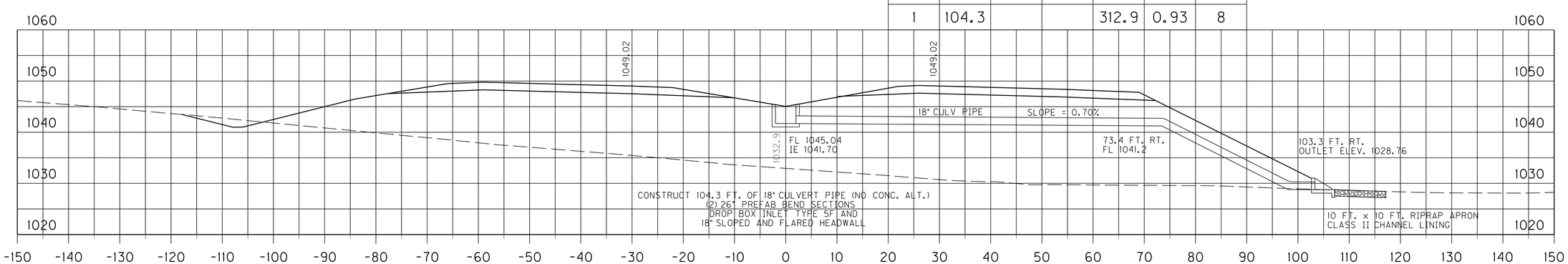
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R154

DBI TYPE 5B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	91		3	273.0	1.50	12



369+50

DBI TYPE 5F	CULVERT PIPE 18 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	104.3			312.9	0.93	8



356+00

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: sp
3/17/2014

JDQ
I-32
FORM NO. 2

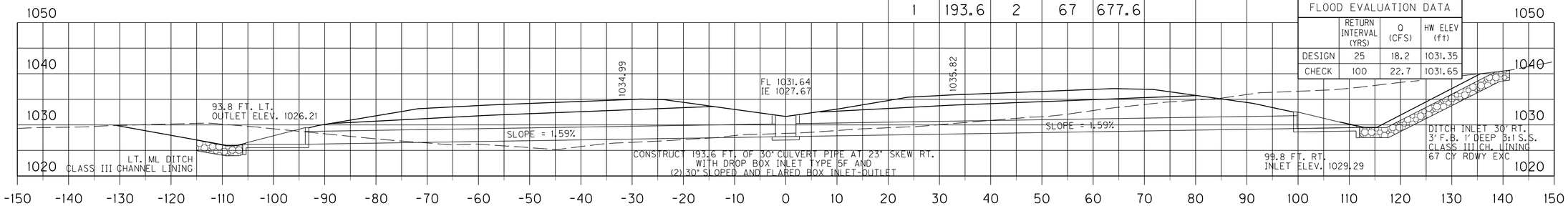
PIPE SECTIONS
STA. 356+00 & 369+50

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R155

DBI TYPE 5F	CULVERT PIPE 30 INCH	S&F BOX IN-OUT 30 INCH	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES
1	193.6	2	67	677.6

FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	18.2	1031.35
CHECK	100	22.7	1031.65

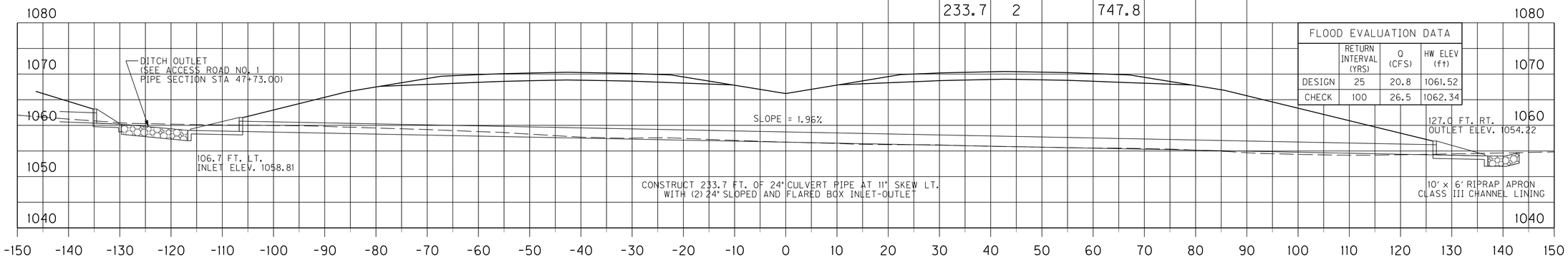


401+44.50
23° RT SKEW

	CULVERT PIPE 24 INCH	S&F BOX IN-OUT 24 INCH		FABRIC GEOTEXTILE TYPE IV FOR PIPES
	233.7	2		747.8

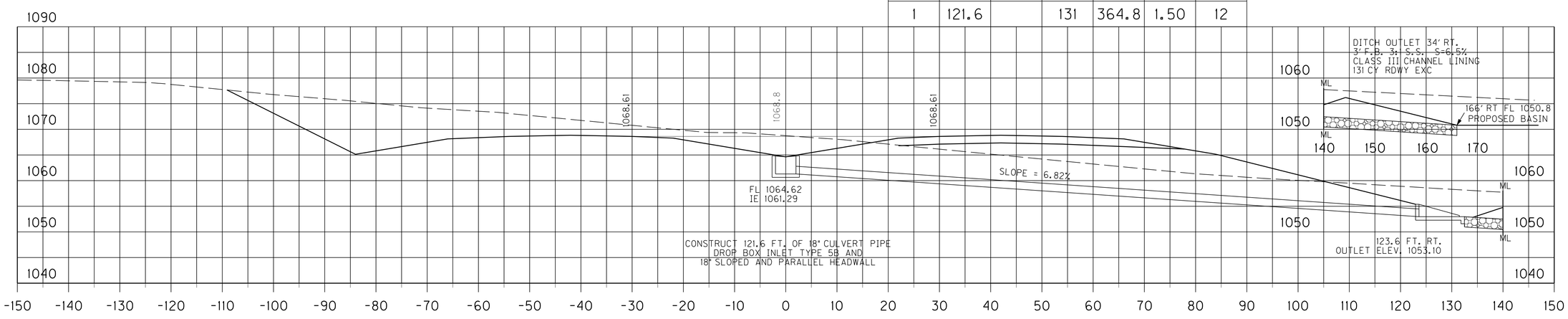
FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	20.8	1061.52
CHECK	100	26.5	1062.34



379+22.80
11° LT SKEW

DBI TYPE 5B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	121.6		131	364.8	1.50	12



377+50

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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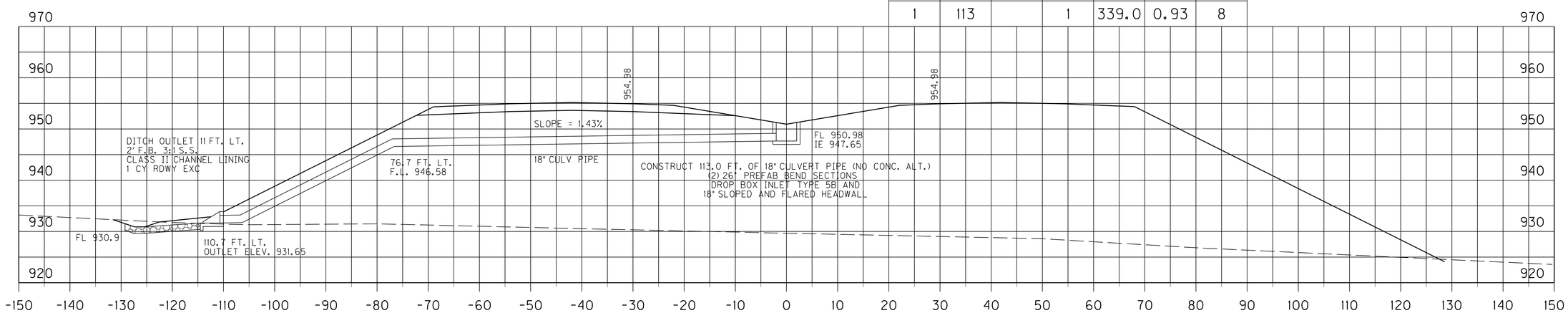
Cell Name: sp
3/17/2014

JDO
I-92
FORM NO. 2

PIPE SECTIONS
STA. 377+50, 379+22.80 & 401+44.50

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R156

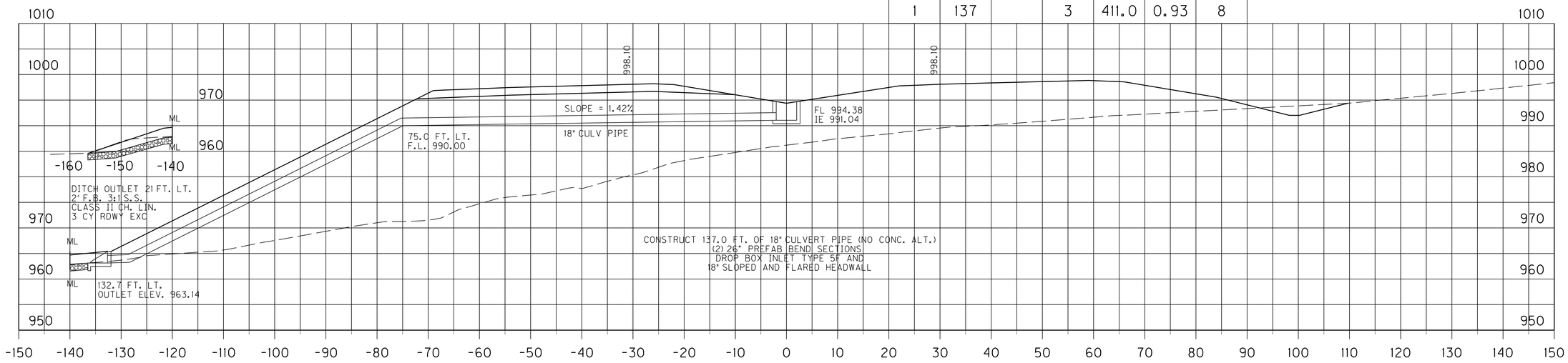
DBI TYPE 5B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	113		1	339.0	0.93	8



422+25

FOR PIPE CULVERT AT STA. 414+40
SEE SHEET R157

DBI TYPE 5F	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	137		3	411.0	0.93	8



411+00

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

..\plandgns\R15600PS.dgn
Cell Name: sp
3/17/2014

JDQ
1-92
FORM NO. 2

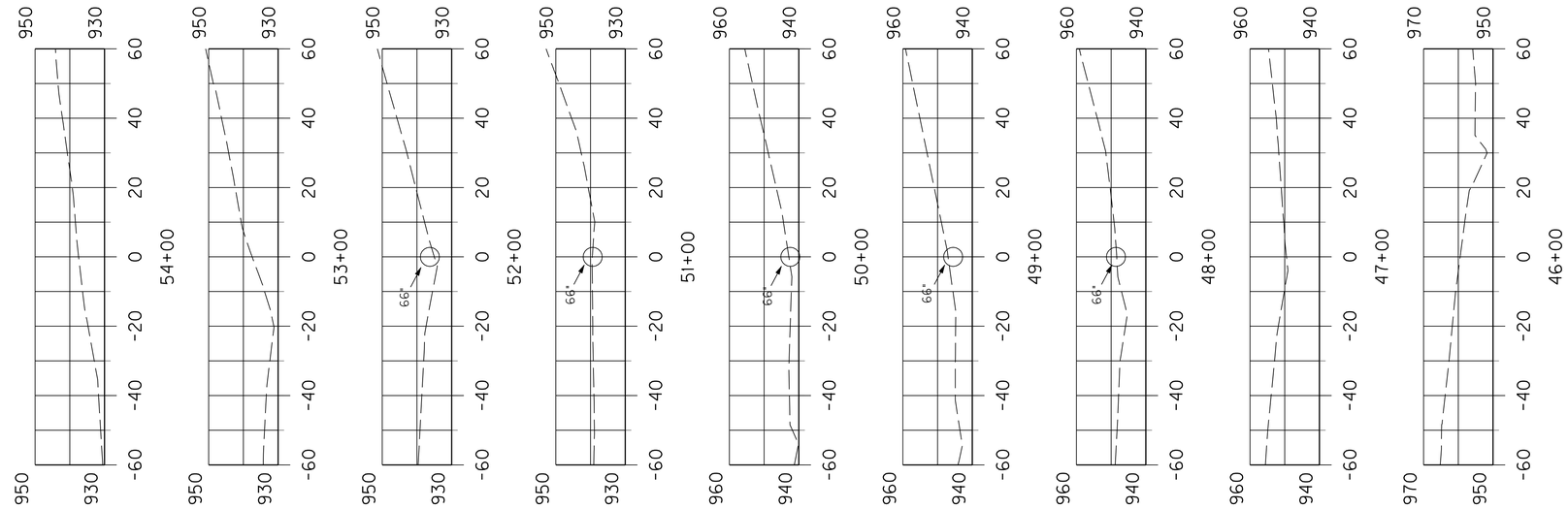
PIPE SECTIONS
STA. 411+00 & 422+25

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R157

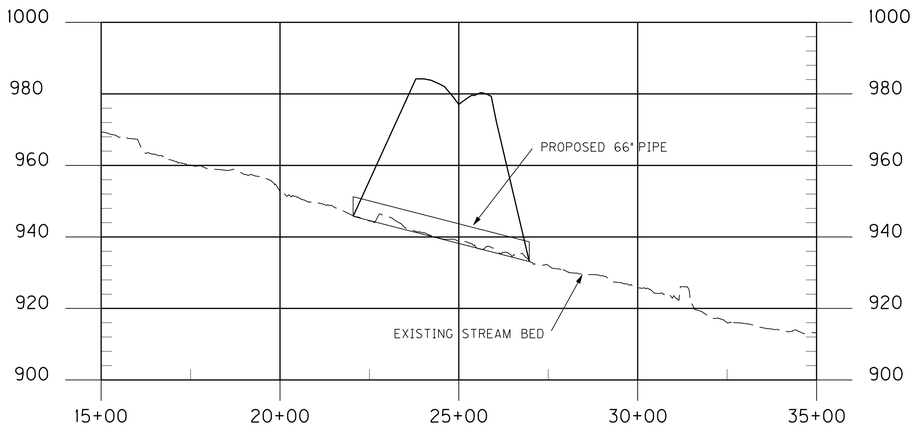
SOMERSETNORTH BY-PASS
INTERSTATE 66

CULVERT SITUATION

STA. 414+40
66" CULVERT PIPE
47° LT SKEW

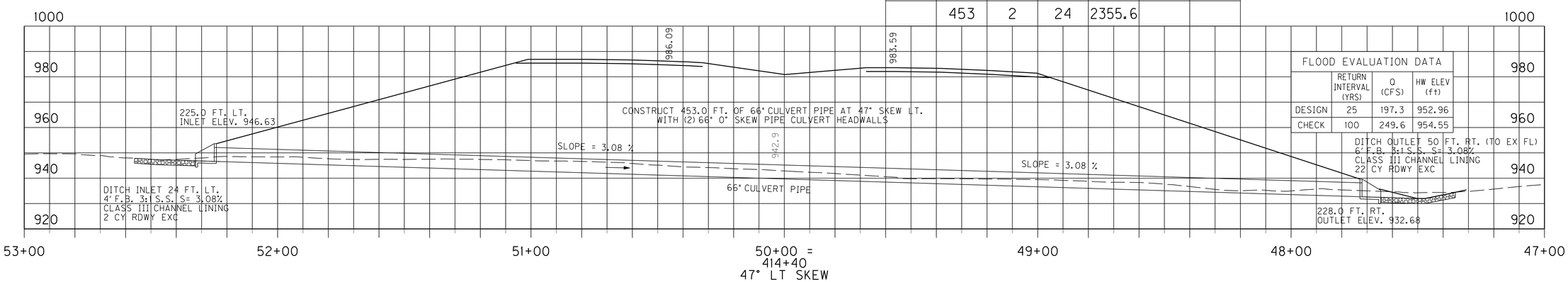


CHANNEL SECTIONS
SCALE: 1" = 20' HORIZ
1" = 20' VERT



STREAM PROFILE
SCALE: 1" = 200' HORIZ
1" = 20' VERT

	CULVERT PIPE 66 INCH	PIPE CULVERT HEADWALL 66 IN	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES
	453	2	24	2355.6



FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	197.3	952.96
CHECK	100	249.6	954.55

CULVERT SECTION
SCALE: 1" = 20' HORIZ
1" = 20' VERT

PIPE SECTION
STA. 414+40

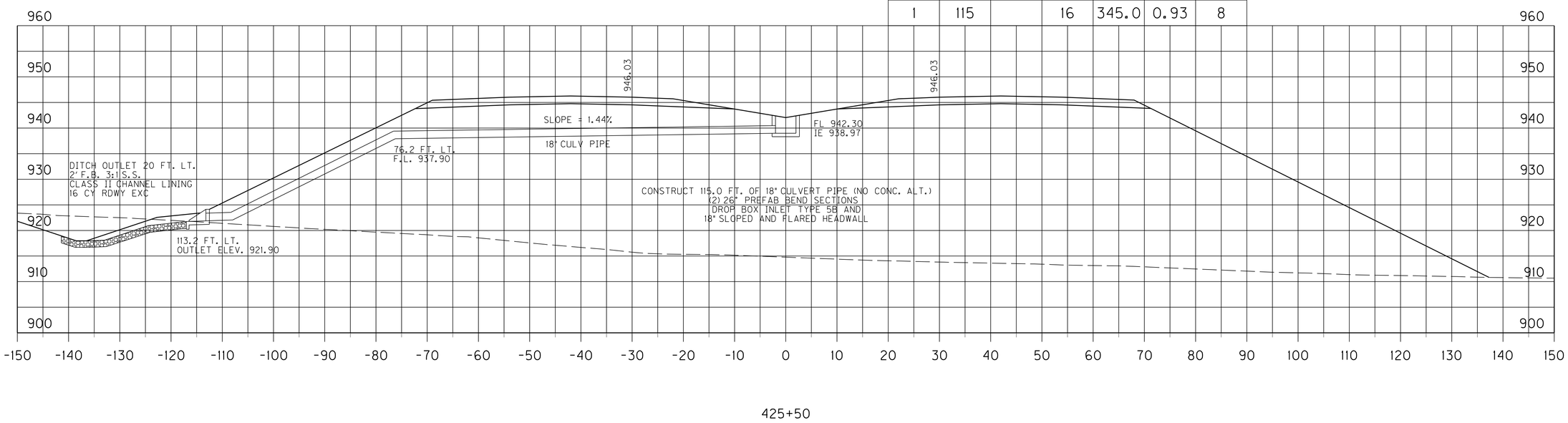
PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

..\plandgns\R15700PS.dgn
Cell Name: sp
3/17/2014

JDO
I-92
FORM NO. 2

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R158

DBI TYPE 5B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	115		16	345.0	0.93	8



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JDQ
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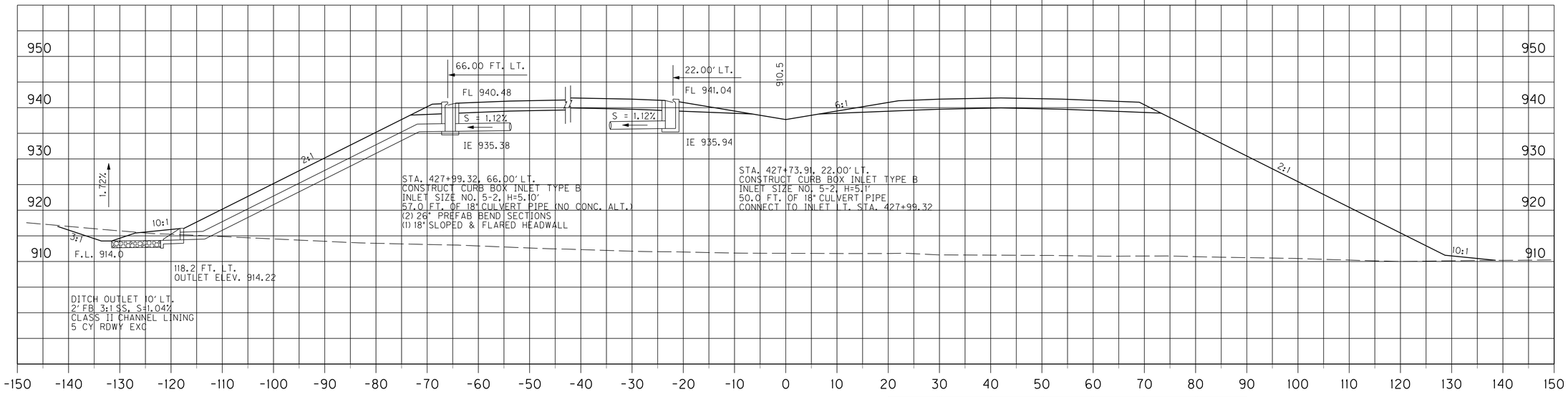
FORM NO. 2

PIPE SECTION
STA. 425+50

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R159

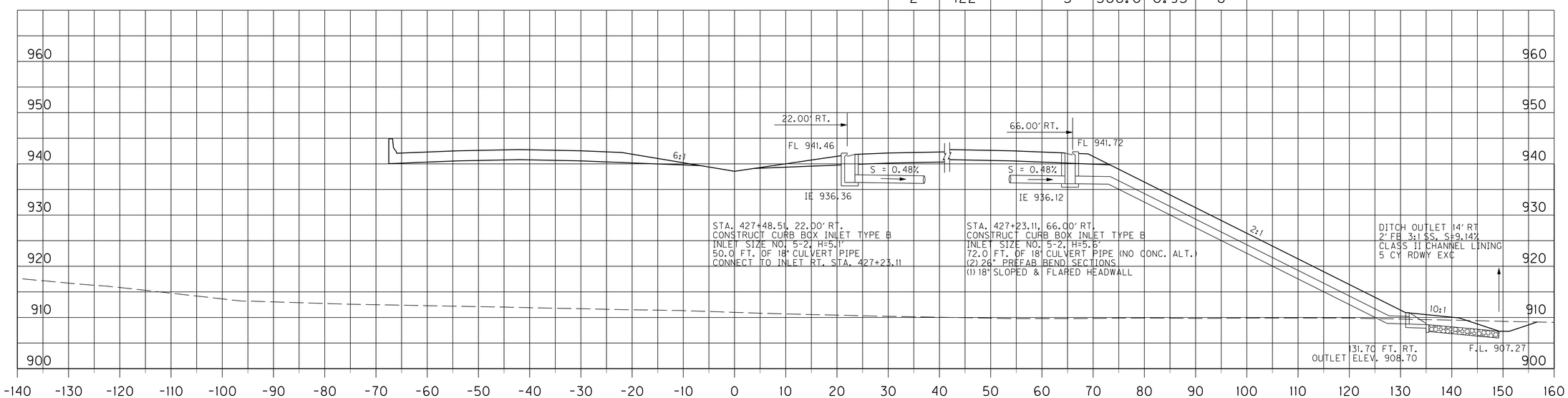
CBI TYPE B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
2	107		5	321.0	0.93	8



427+99.32 LT.

427+73.91 LT.

CBI TYPE B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
2	122		5	366.0	0.93	8



427+48.51 RT.

427+23.11 RT.

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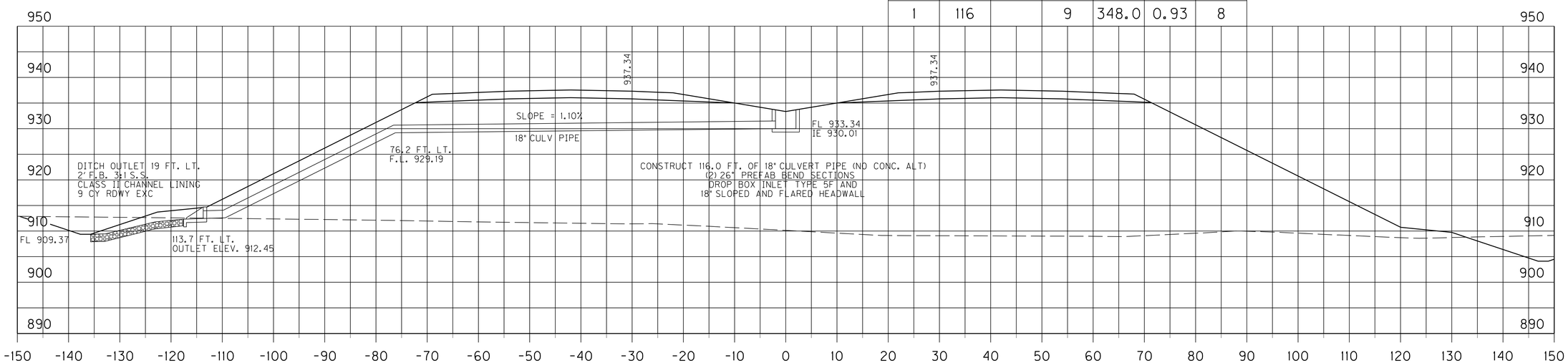
PIPE SECTIONS
STA. 427+23.11 RT & 427+48.51 RT.
STA. 427+73.91 LT. & 427+99.32 LT.

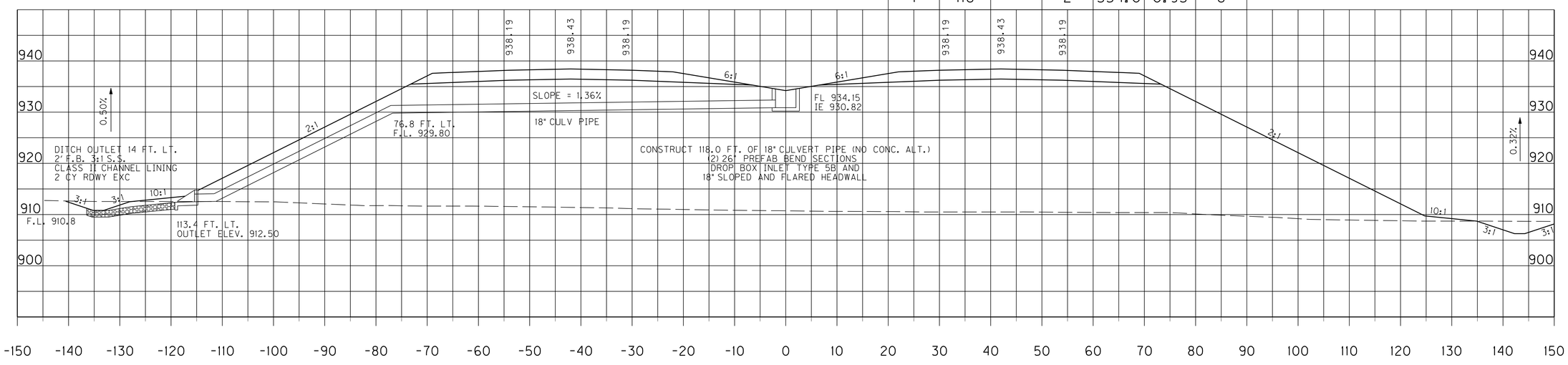
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R160

DBI TYPE 5F	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	116		9	348.0	0.93	8



433+60

DBI TYPE 5B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	118		2	354.0	0.93	8



430+75

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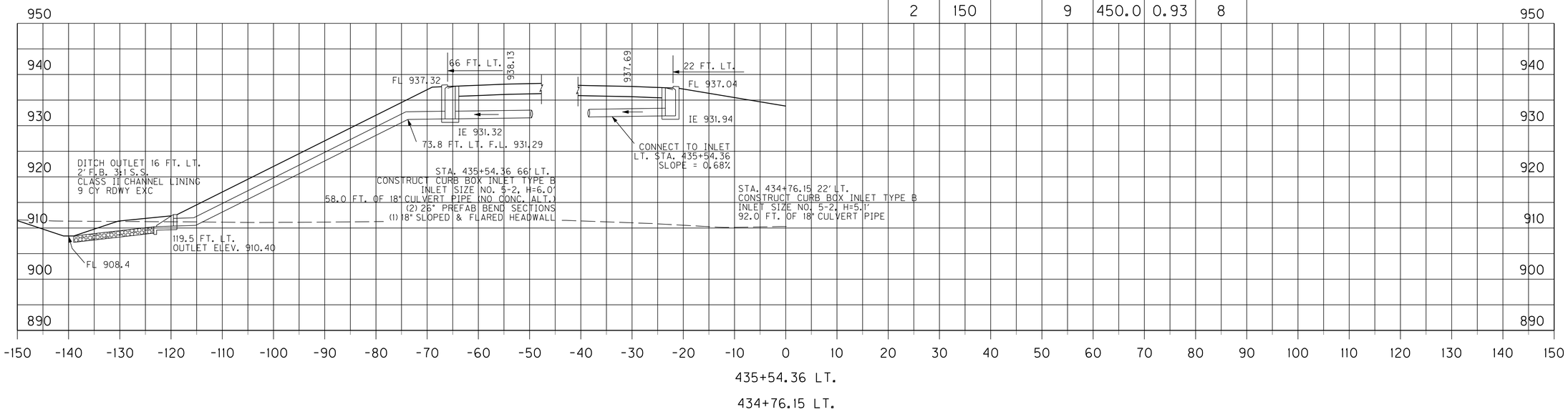
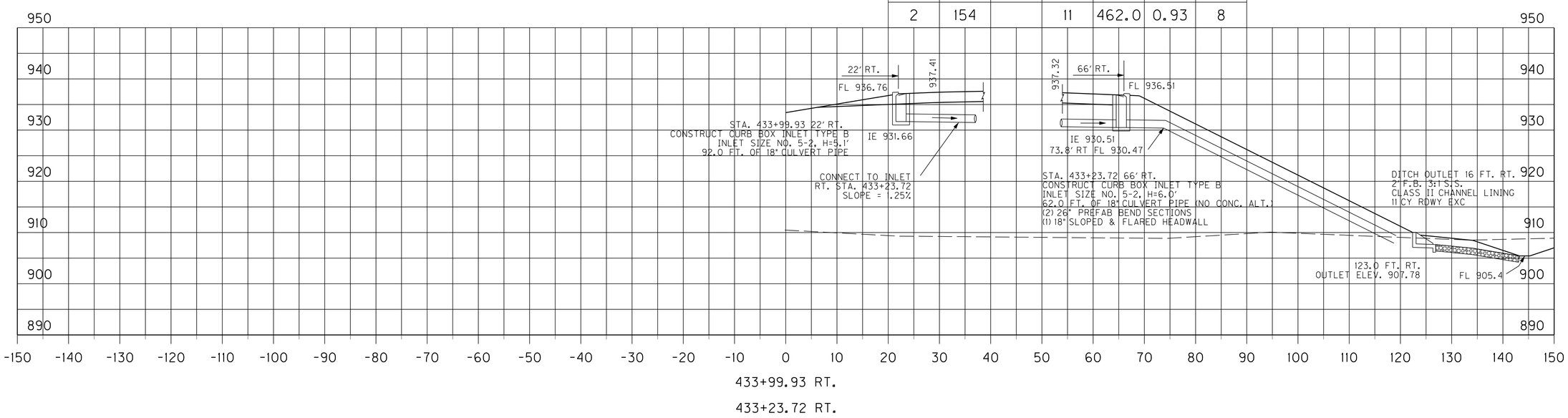
PIPE SECTIONS
STA. 430+75 & 433+60

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R161

CBI TYPE B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS 'A' CONCRETE	STEEL REINF
2	150		9	450.0	0.93	8



CBI TYPE B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS 'A' CONCRETE	STEEL REINF
2	154		11	462.0	0.93	8



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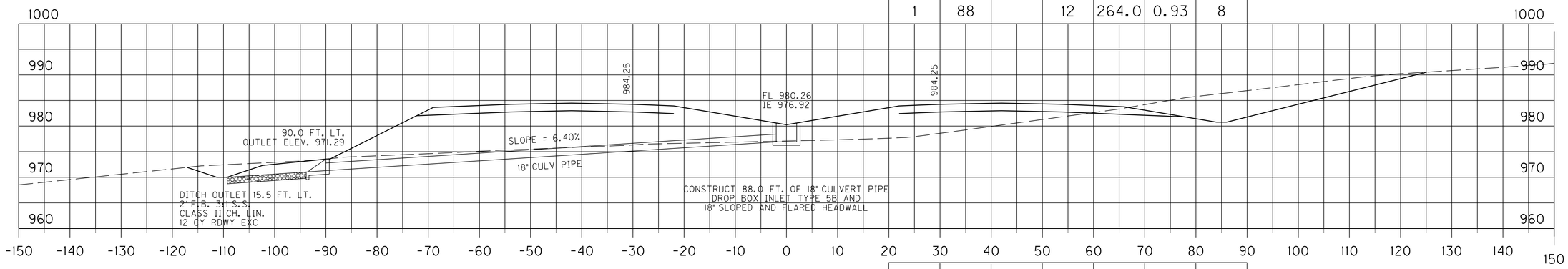
PIPE SECTIONS
STA. 433+23.72 RT. & 433+99.93 RT.
STA. 434+76.15 LT. & 435+54.36 LT.

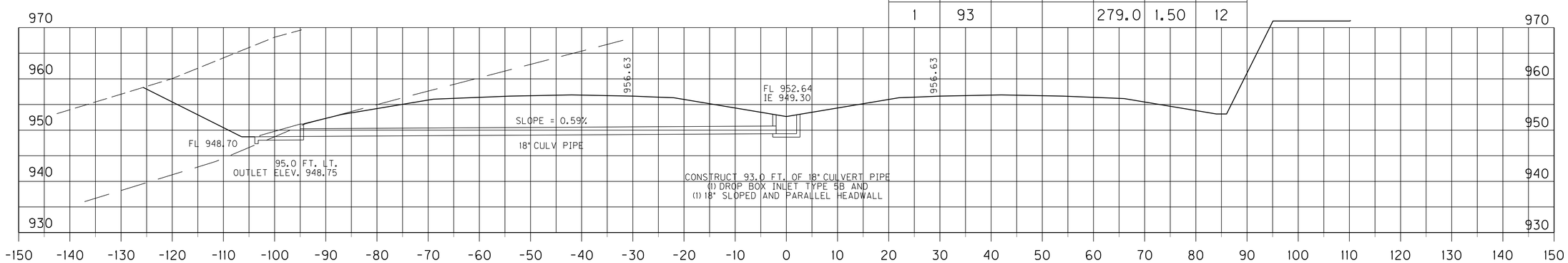
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R162

DBI TYPE 5B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	88		12	264.0	0.93	8



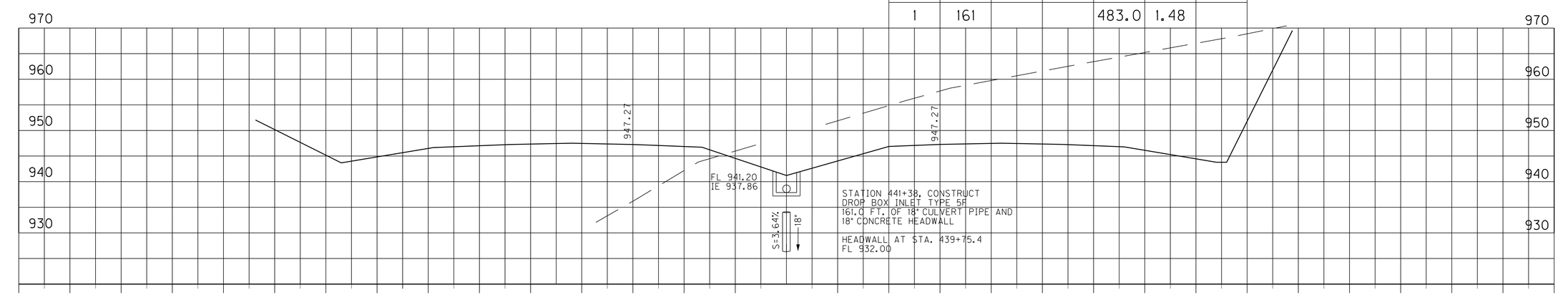
452+50

DBI TYPE 5B	CULVERT PIPE 18 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	93			279.0	1.50	12



444+60

DBI TYPE 5F	CULVERT PIPE 18 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	
1	161			483.0	1.48	



441+38

PIPE SECTIONS
STA. 441+38, 444+60 & 452+50

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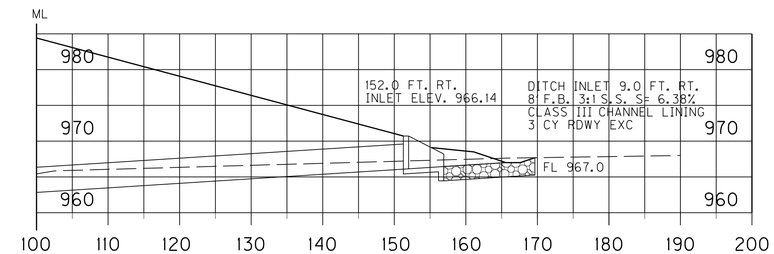
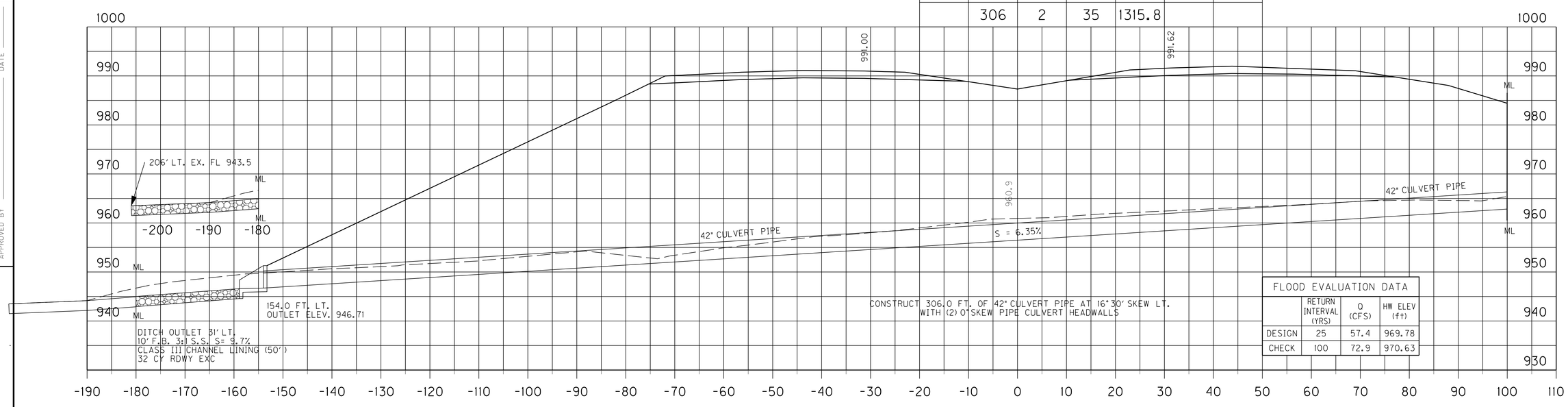
FORM NO. 2

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R163



	CULVERT PIPE 42 INCH	PIPE CULVERT HEADWALL 42 IN	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES		
	306	2	35	1315.8		



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	57.4	969.78
CHECK	100	72.9	970.63

454+51.70
16° 30' LT SKEW

PIPE SECTIONS
STA. 454+51.70

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APPROVED BY ____ DATE ____

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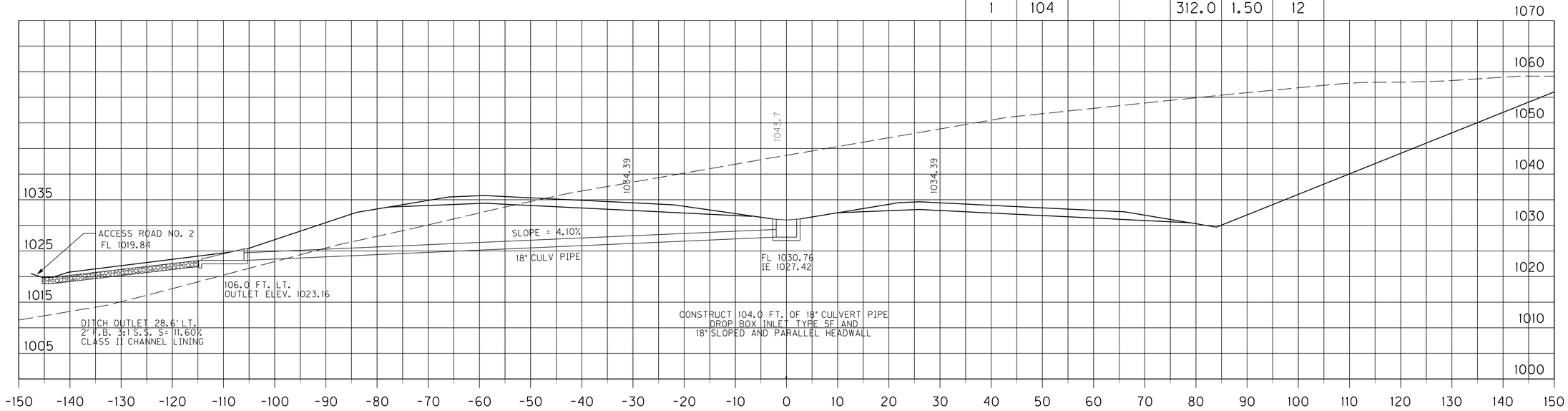
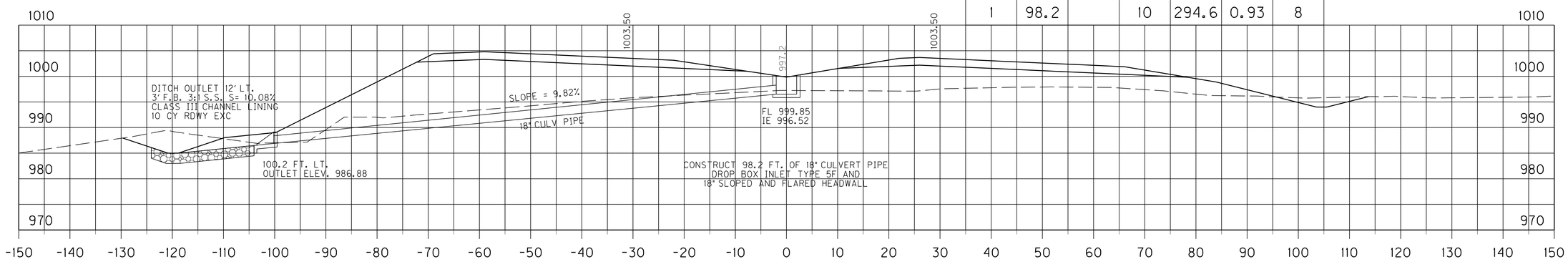
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R164

DBI TYPE 5F	CULVERT PIPE 18 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	104			312.0	1.50	12



468+00

DBI TYPE 5F	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	98.2		10	294.6	0.93	8



458+00

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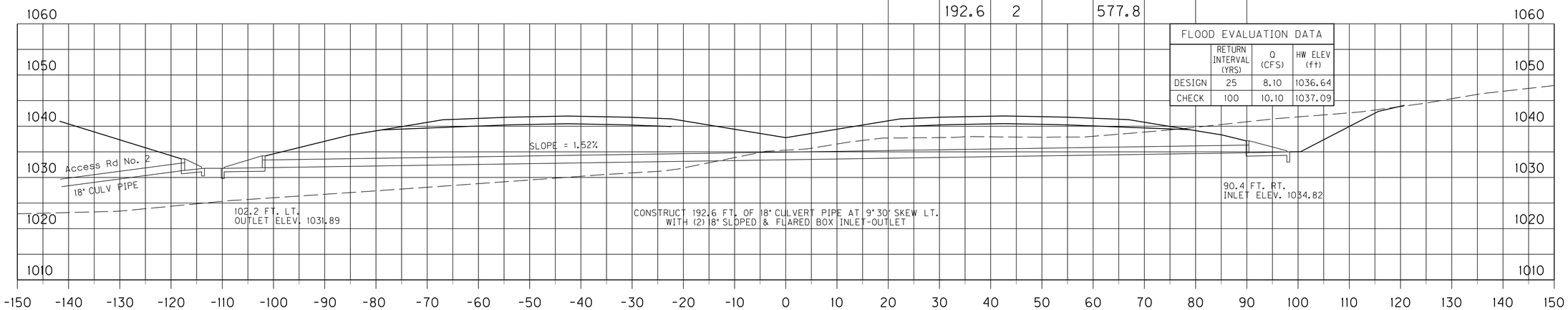
PIPE SECTIONS
STA. 458+00 & 468+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R165

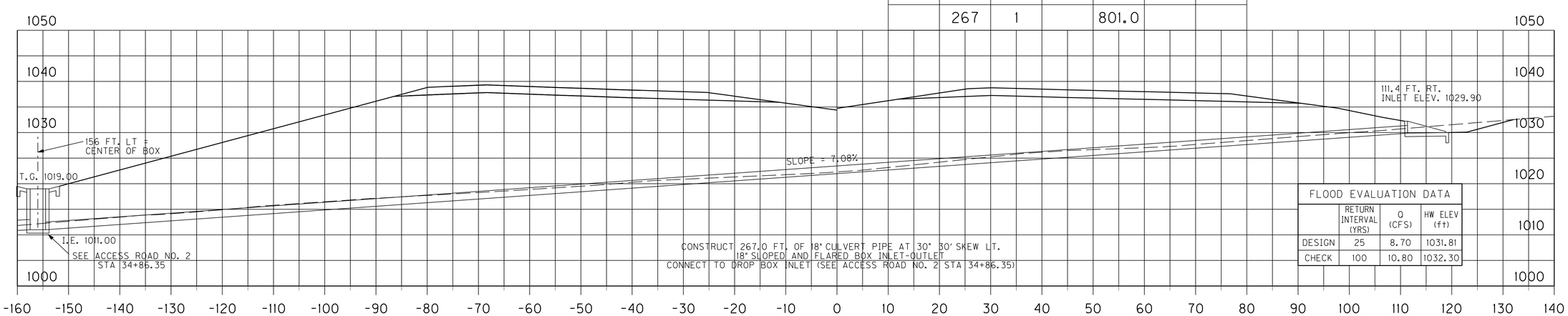
	CULVERT PIPE 18 INCH	S&F BOX IN-OUT 18 INCH		FABRIC GEOTEXTILE TYPE IV FOR PIPES		
	192.6	2		577.8		



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	8.10	1036.64
CHECK	100	10.10	1037.09

474+83.90
9°30' LT SKEW

	CULVERT PIPE 18 INCH	S&F BOX IN-OUT 18 INCH		FABRIC GEOTEXTILE TYPE IV FOR PIPES		
	267	1		801.0		



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	8.70	1031.81
CHECK	100	10.80	1032.30

470+37.80
30°30' LT SKEW

PIPE SECTIONS
STA. 470+37.80 & 474+83.90

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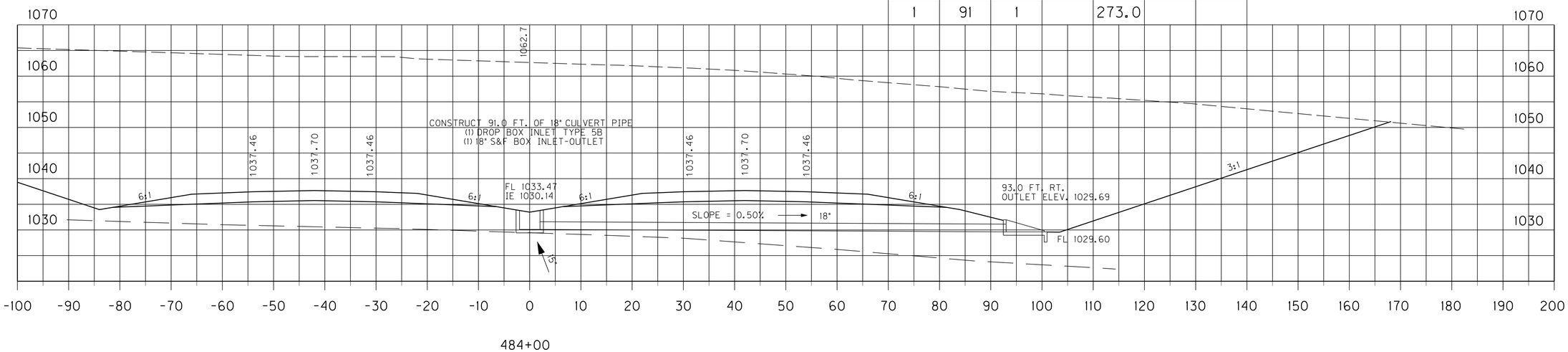
FORM NO. 2

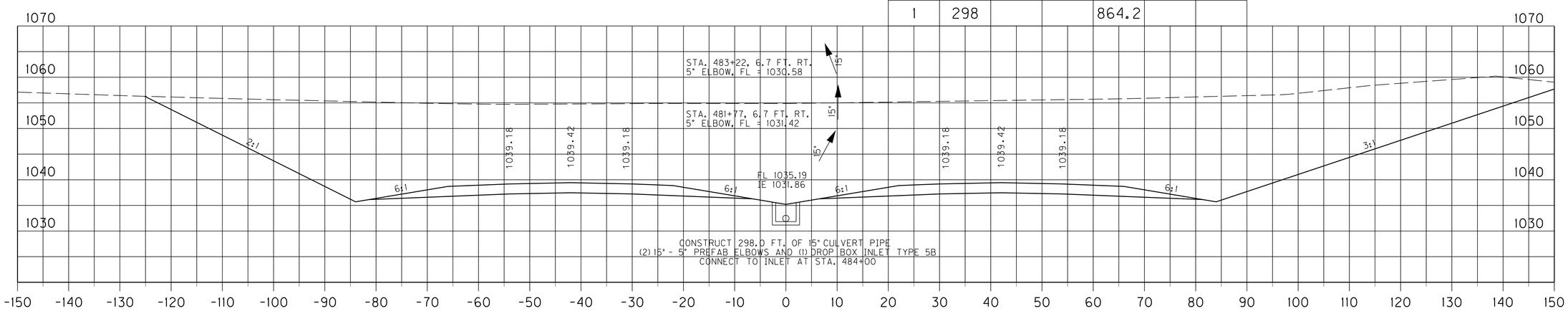
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R166

DBI TYPE 5B	CULVERT PIPE 18 INCH	S&F BOX IN-OUT 18 INCH		FABRIC GEOTEXTILE TYPE IV FOR PIPES		
1	91	1		273.0		



484+00

DBI TYPE 5B	CULVERT PIPE 15 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES		
1	298			864.2		



481+00

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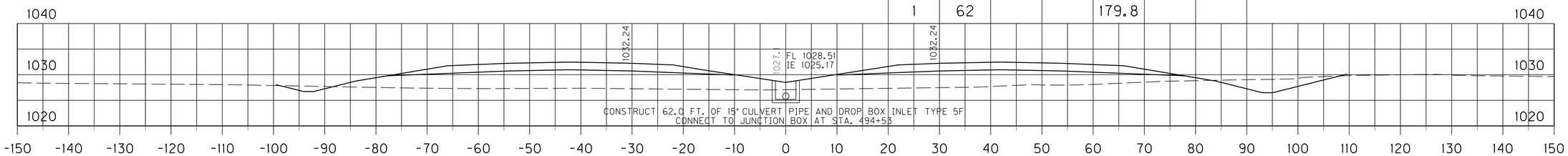
PIPE SECTIONS
STA. 481+00 & 484+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R167

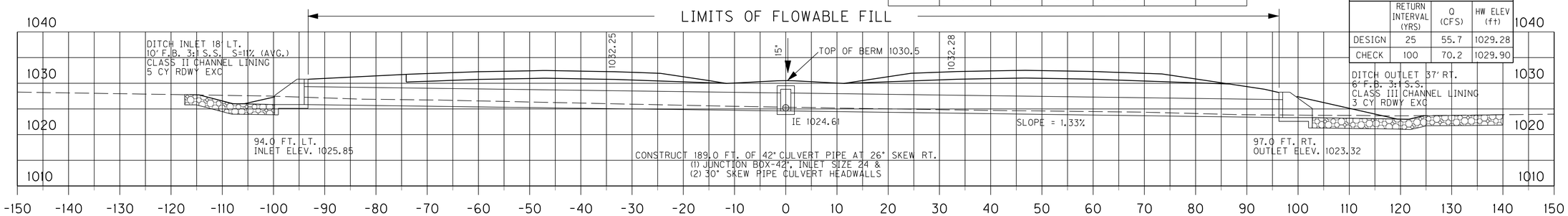
DBI TYPE 5F	CULVERT PIPE 15 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES		
1	62			179.8		



495+18.06

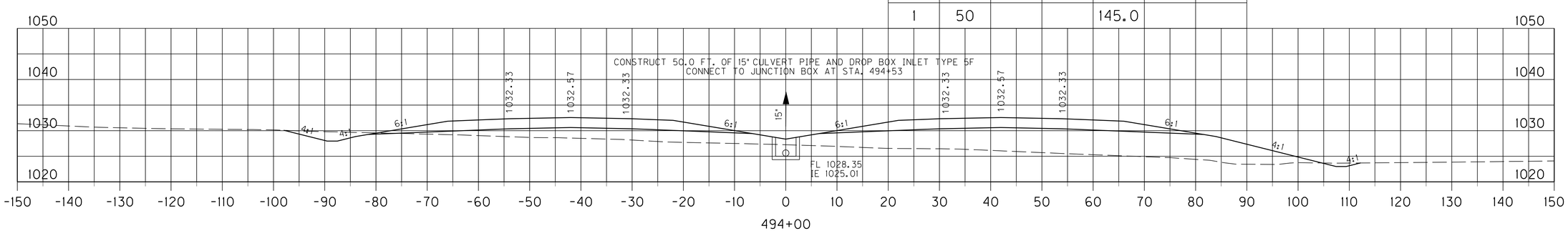
JUNCTION BOX	CULVERT PIPE 42 INCH	PIPE CULVERT HEADWALL 42 IN	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	189	2	8	812.7		

FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	55.7	1029.28
CHECK	100	70.2	1029.90



494+53
26° RT SKEW

DBI TYPE 5F	CULVERT PIPE 15 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES		
1	50			145.0		



494+00

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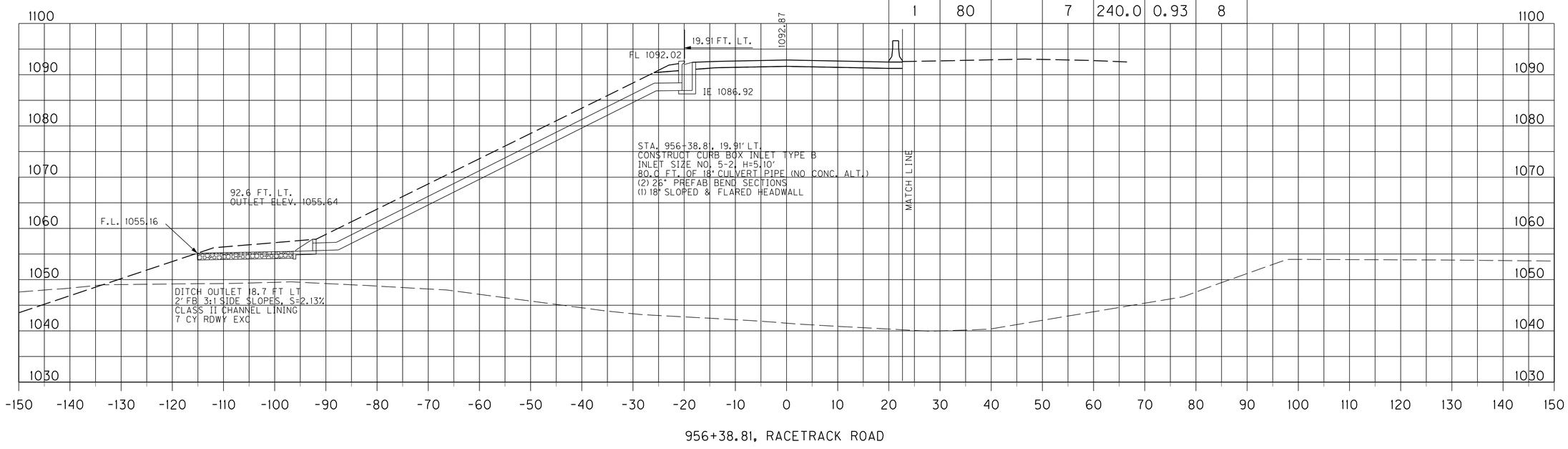
PIPE SECTIONS
STA. 494+00, 494+53 & 495+18.06

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R168

CBI TYPE B	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	80		7	240.0	0.93	8



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JDO
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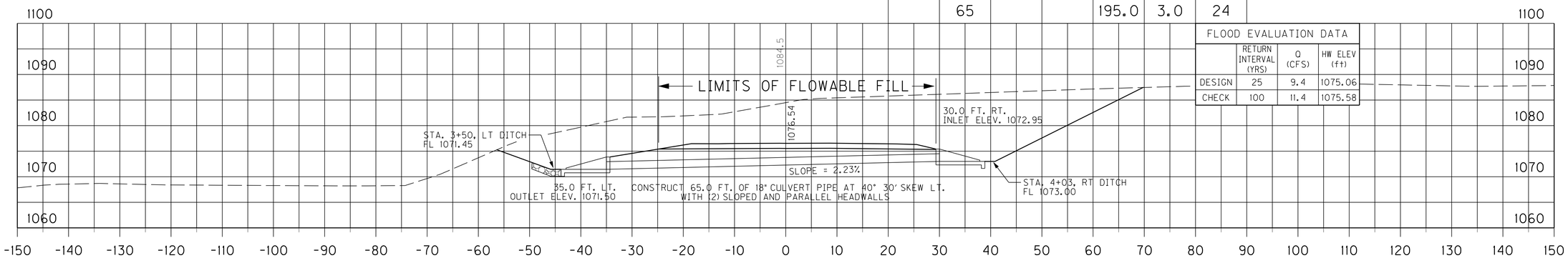
FORM NO. 2

PIPE SECTIONS
RACETRACK ROAD
STA. 956+38.81

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R169

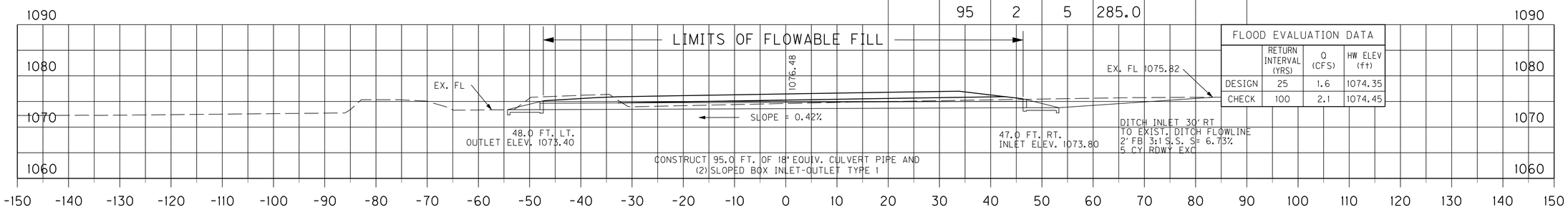
CULVERT PIPE 18 INCH	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS 'A' CONCRETE	STEEL REINF
65	195.0	3.0	24



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	9.4	1075.06
CHECK	100	11.4	1075.58

3+77.79, K BODIE ROAD
40° 30' LT SKEW

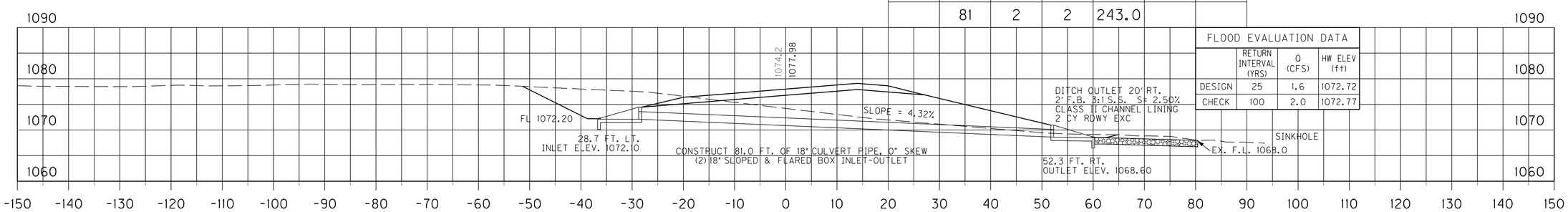
18" EQUIV. CULVERT PIPE	SLOPED BOX IN-OUT TYPE 1	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES
95	2	5	285.0



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	1.6	1074.35
CHECK	100	2.1	1074.45

973+00.86, RACETRACK ROAD
SKEW: 2° 51' RT

CULVERT PIPE 18 INCH	S&F BOX IN-OUT 18 INCH	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES
81	2	2	243.0



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	1.6	1072.72
CHECK	100	2.0	1072.77

970+50, RACETRACK ROAD

PIPE SECTIONS
RACETRACK RD. STA. 970+50 & 973+00.86
K BODIE ROAD STA. 3+77.79

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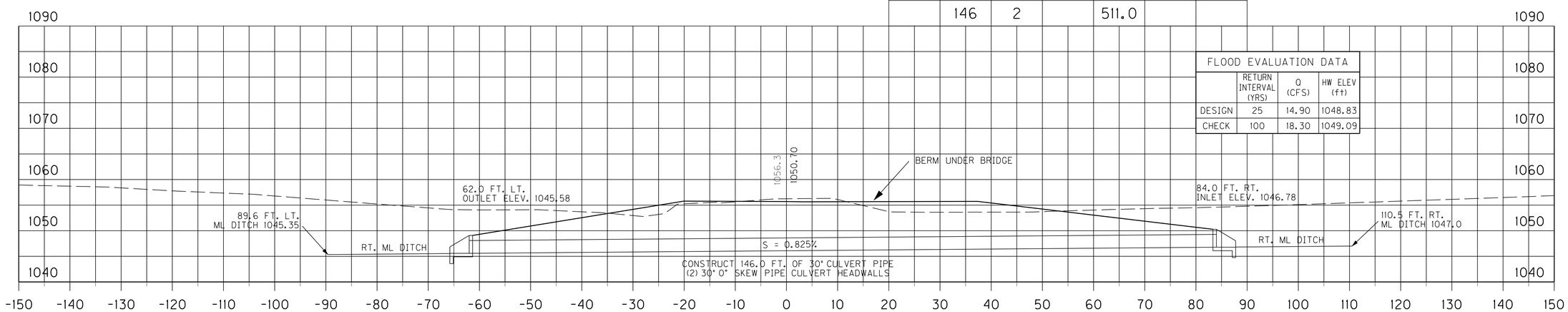
FORM NO. 2

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R170

	CULVERT PIPE 30 INCH	PIPE CULVERT HEADWALL 30 IN		FABRIC GEOTEXTILE TYPE IV FOR PIPES		
	146	2		511.0		



FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	14.90	1048.83
CHECK	100	18.30	1049.09

50+99.20, KY 1247
15° 31′ LT SKEW

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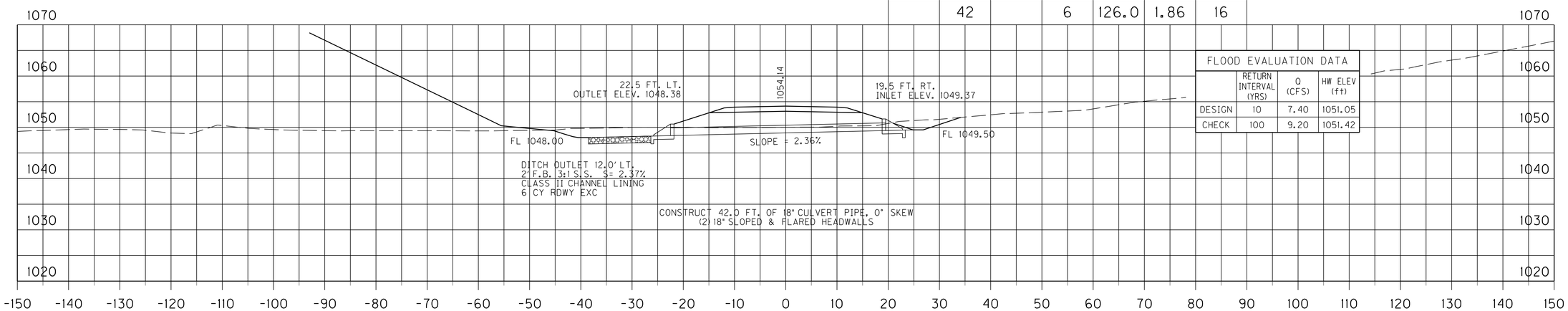
FORM NO. 2

PIPE SECTIONS
KY 1247
STA. 50+99.20

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R171

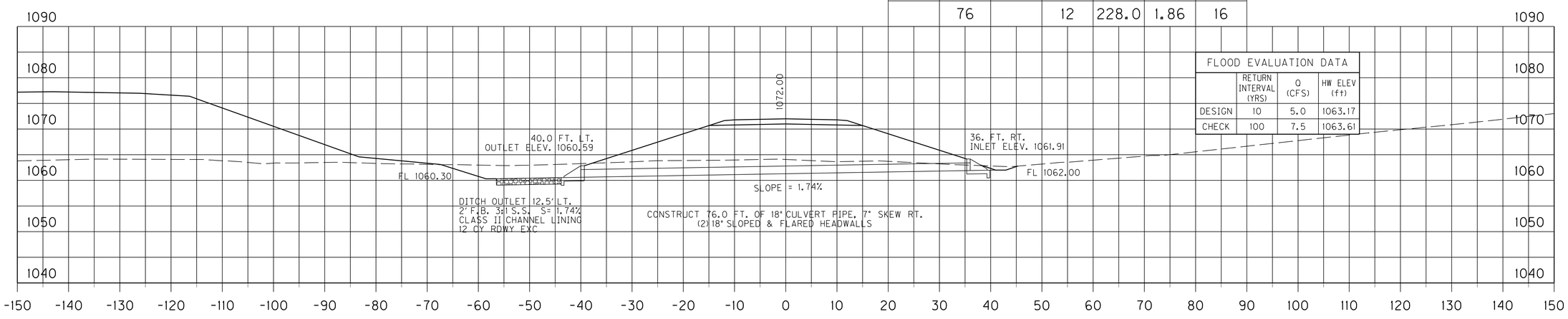
	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	42		6	126.0	1.86	16



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	10	7.40	1051.05
CHECK	100	9.20	1051.42

4+29.60, KY 1247 ACCESS ENT.

	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	76		12	228.0	1.86	16



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	10	5.0	1063.17
CHECK	100	7.5	1063.61

1+08, KY 1247 ACCESS ENT.
7° RT SKEW

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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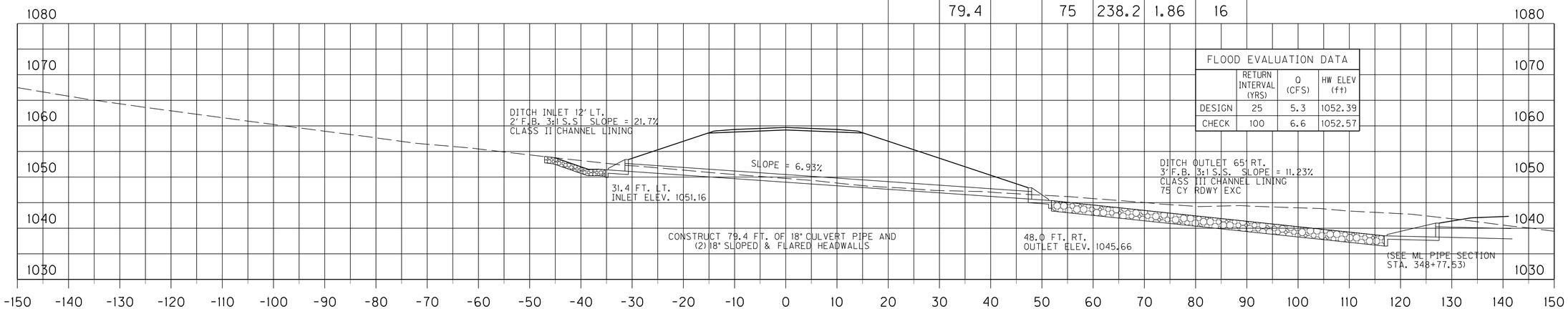
Cell Name: sp
3/17/2014

JDO
1-92
FORM NO. 2

PIPE SECTIONS
KY 1247 ACCESS ENT.
STA. 1+08 & 4+29.60

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R172

	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	79.4		75	238.2	1.86	16

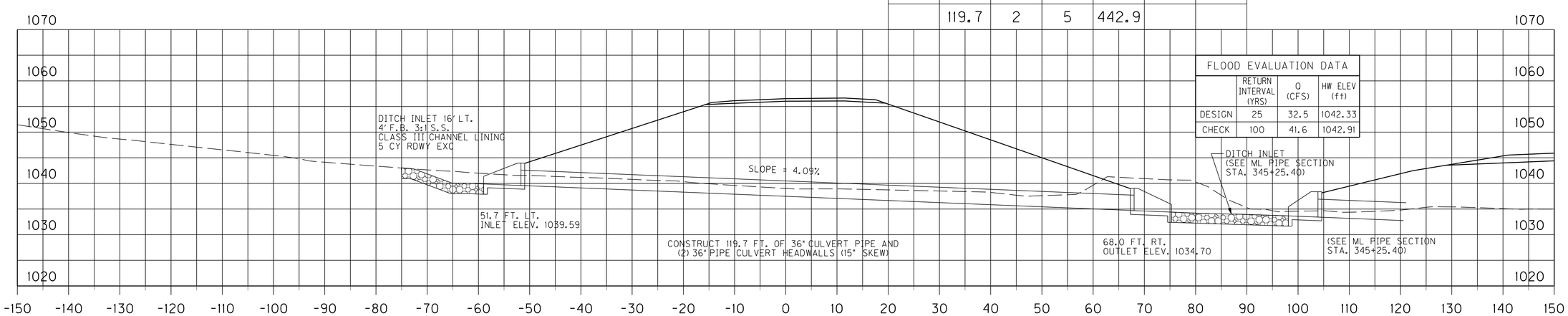


FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	5.3	1052.39
CHECK	100	6.6	1052.57

17+77.40, ACCESS ROAD NO. 1
3° 30' LT SKEW

	CULVERT PIPE 36 INCH	PIPE CULVERT HEADWALL 36 IN	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES		
	119.7	2	5	442.9		



FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	32.5	1042.33
CHECK	100	41.6	1042.91

13+88.53, ACCESS ROAD NO. 1
14° 30' RT SKEW

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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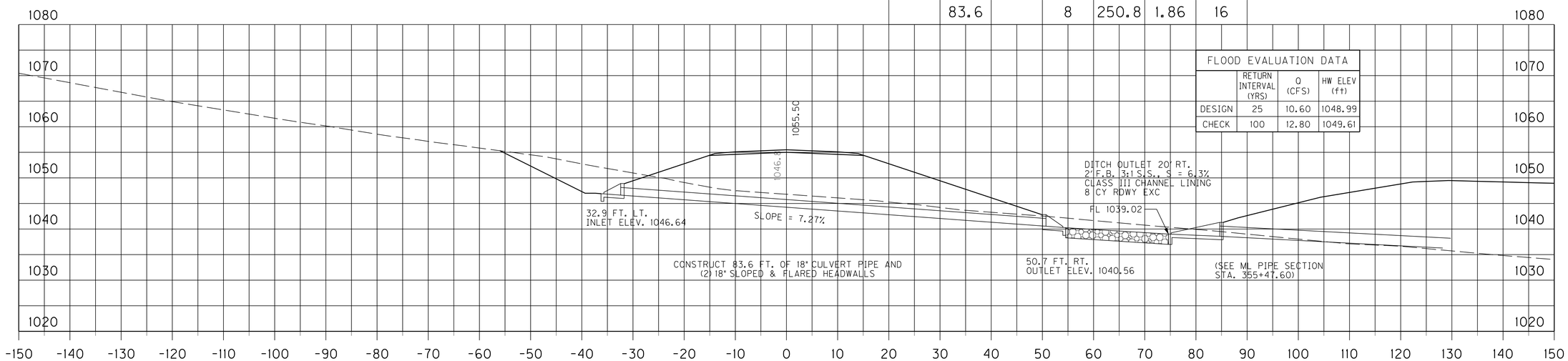
Cell Name: sp
3/17/2014

JDQ
1-92
FORM NO. 2

PIPE SECTIONS
ACCESS ROAD NO. 1
STA. 13+88.53 & 17+77.40

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R173

	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	83.6		8	250.8	1.86	16

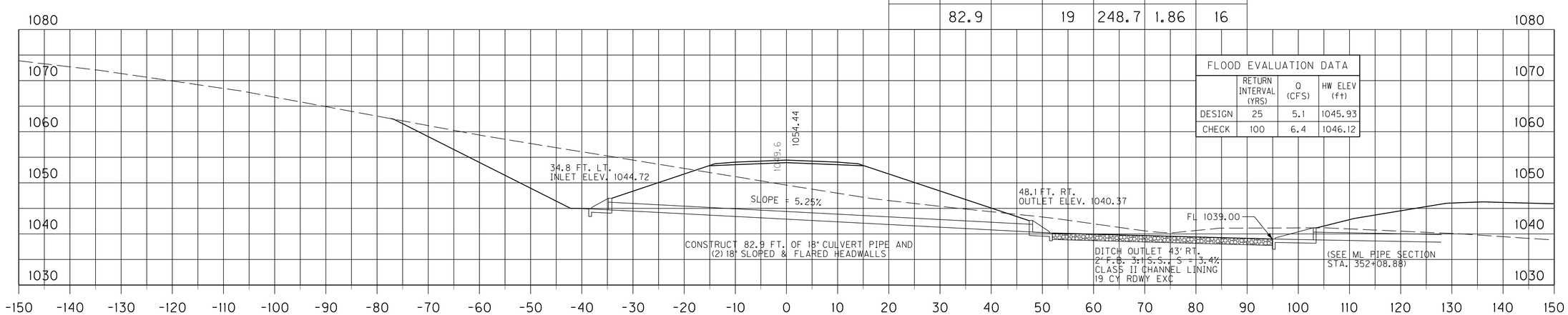


FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	10.60	1048.99
CHECK	100	12.80	1049.61

24+50, ACCESS ROAD NO. 1

	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	82.9		19	248.7	1.86	16



FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	5.1	1045.93
CHECK	100	6.4	1046.12

21+00, ACCESS ROAD NO. 1

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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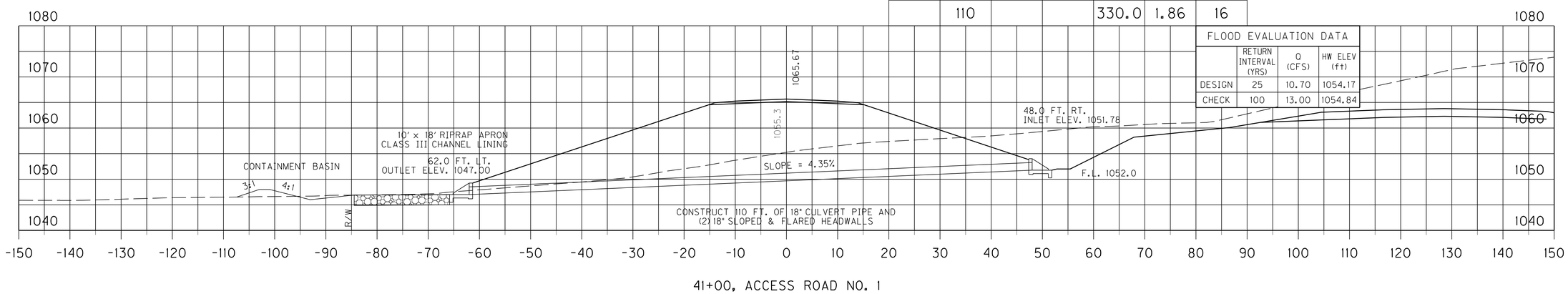
3/17/2014

JDQ
1-92
FORM NO. 2

PIPE SECTIONS
ACCESS ROAD NO. 1
STA. 21+00 & 24+50

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R174

	CULVERT PIPE 18 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	110			330.0	1.86	16



FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	10.70	1054.17
CHECK	100	13.00	1054.84

41+00, ACCESS ROAD NO. 1

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: sp
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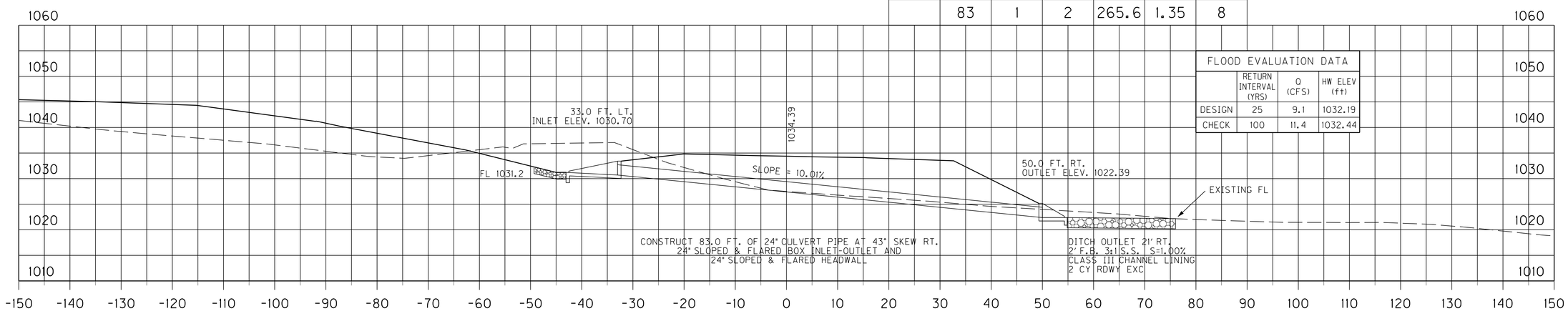
JDO
I-32
FORM NO. 2

PIPE SECTION
ACCESS ROAD NO. 1
STA. 41+00

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R175

	CULVERT PIPE 24 INCH	S&F BOX IN-OUT 24 INCH	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	83	1	2	265.6	1.35	8

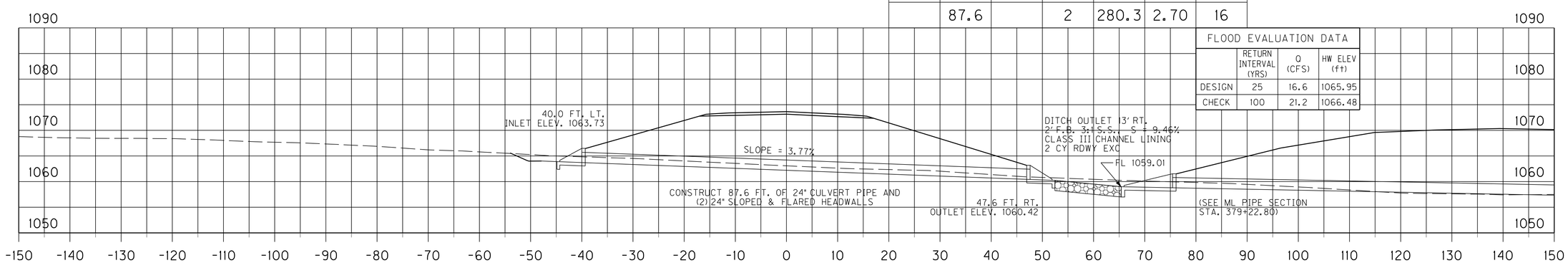


FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	9.1	1032.19
CHECK	100	11.4	1032.44

71+22.29, CAMPGROUND ROAD
43° RT SKEW

FOR PIPE CULVERT AT CAMPGROUND ROAD STA. 67+33.80
SEE SHEET R176

	CULVERT PIPE 24 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	87.6		2	280.3	2.70	16



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	16.6	1065.95
CHECK	100	21.2	1066.48

47+73.00, ACCESS ROAD NO. 1
27° LT SKEW

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

...\plandgns\R17500PS.dgn
Cell Name: sp
3/17/2014

JDQ
1-92
FORM NO. 2

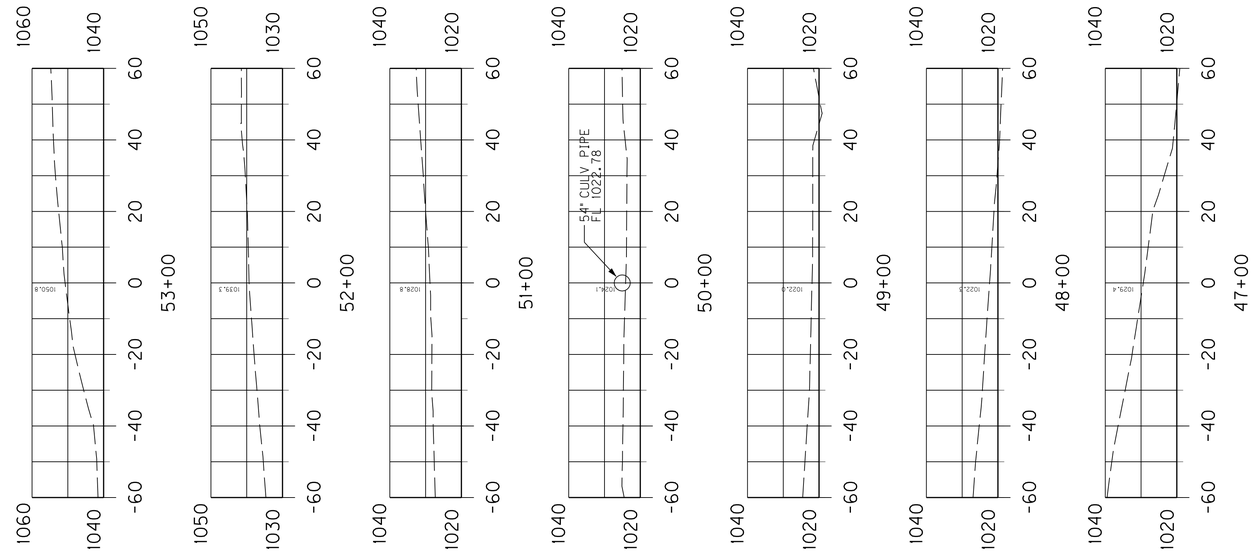
PIPE SECTIONS
ACCESS ROAD NO. 1 - STA. 47+73
CAMPGROUND ROAD - STA. 71+22.29

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R176

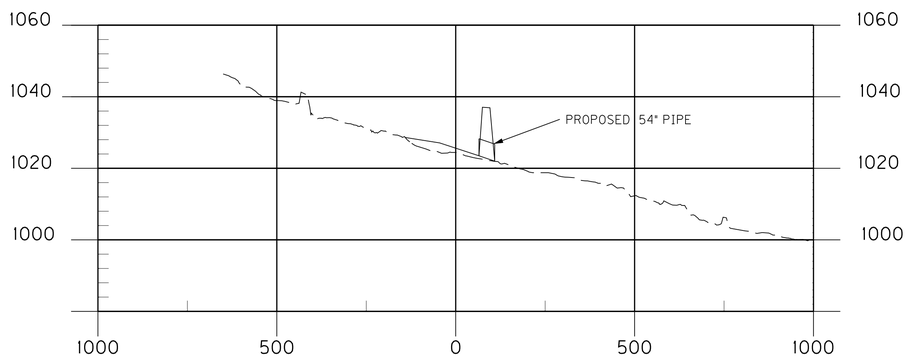
SOMERSET NORTHERN BY-PASS
INTERSTATE 66

CULVERT SITUATION

67+33.80, CAMPGROUND ROAD
54" CULVERT PIPE
15° LT SKEW

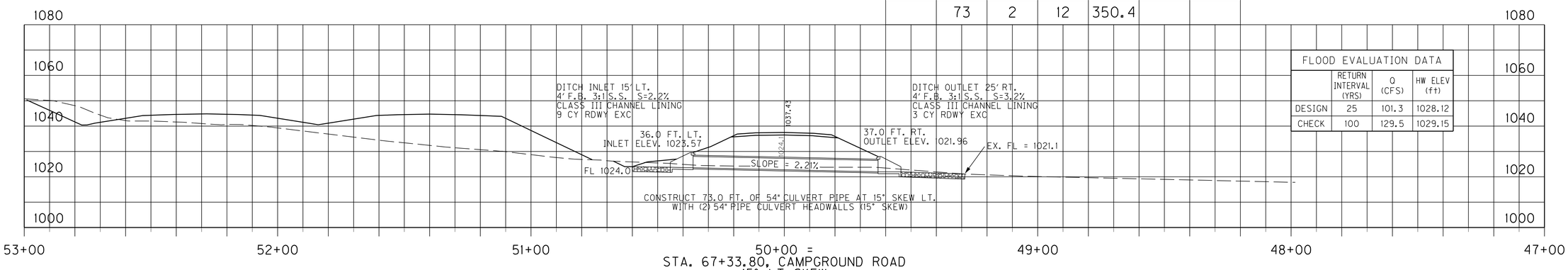


CHANNEL SECTIONS
SCALE: 1" = 20' HORIZ
1" = 20' VERT



STREAM PROFILE
SCALE: 1" = 200' HORIZ
1" = 20' VERT

	CULVERT PIPE 54 INCH	PIPE CULVERT HEADWALL 54 IN	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	73	2	12	350.4		



FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	101.3	1028.12
CHECK	100	129.5	1029.15

CULVERT SECTION
SCALE: 1" = 20' HORIZ
1" = 20' VERT

PIPE SECTION
CAMPGROUND ROAD
STA. 67+33.80

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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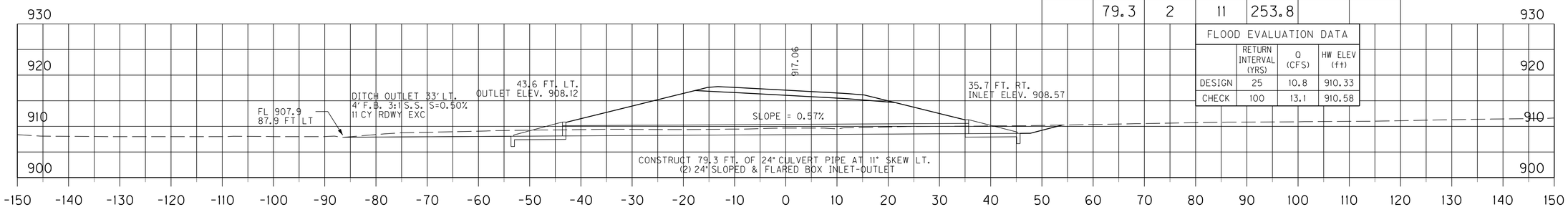
FORM NO. 2

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R177

	CULVERT PIPE 24 INCH	S&F BOX IN-OUT 24 INCH	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES
	79.3	2	11	253.8

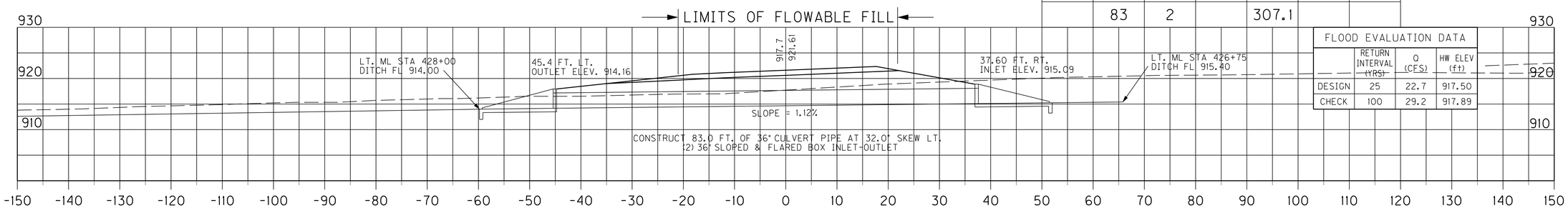


FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	10.8	910.33
CHECK	100	13.1	910.58

52+63, NELSON VALLEY ROAD
11° LT SKEW

	CULVERT PIPE 36 INCH	S&F BOX IN-OUT 36 INCH		FABRIC GEOTEXTILE TYPE IV FOR PIPES
	83	2		307.1

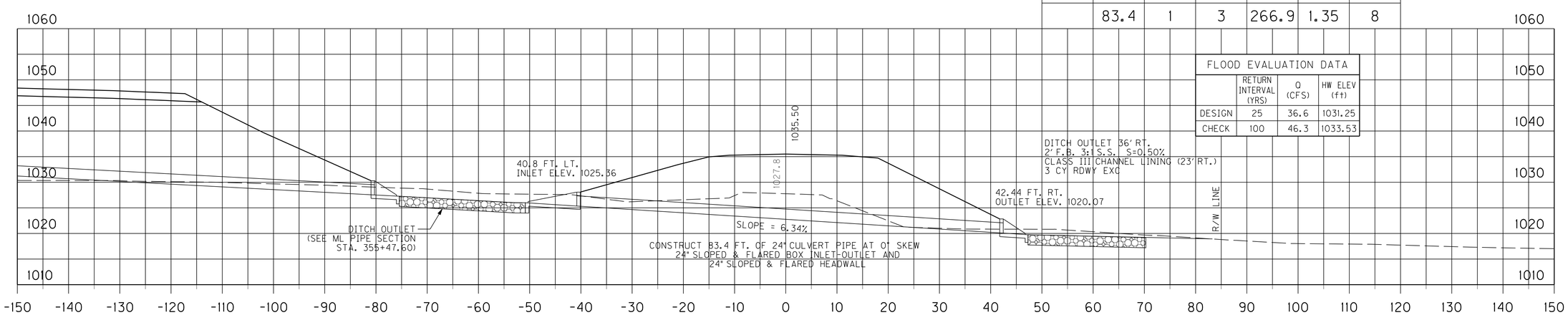


FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	22.7	917.50
CHECK	100	29.2	917.89

48+42, NELSON VALLEY ROAD
32° LT SKEW

	CULVERT PIPE 24 INCH	S&F BOX IN-OUT 24 INCH	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	83.4	1	3	266.9	1.35	8



FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	36.6	1031.25
CHECK	100	46.3	1033.53

75+00, CAMPGROUND ROAD

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Names: sp
3/17/2014

JDQ
1-92
FORM NO. 2

PIPE SECTIONS
CAMPGROUND RD. - STA. 75+00
NELSON VALLEY RD. - STA. 48+42 & 52+63

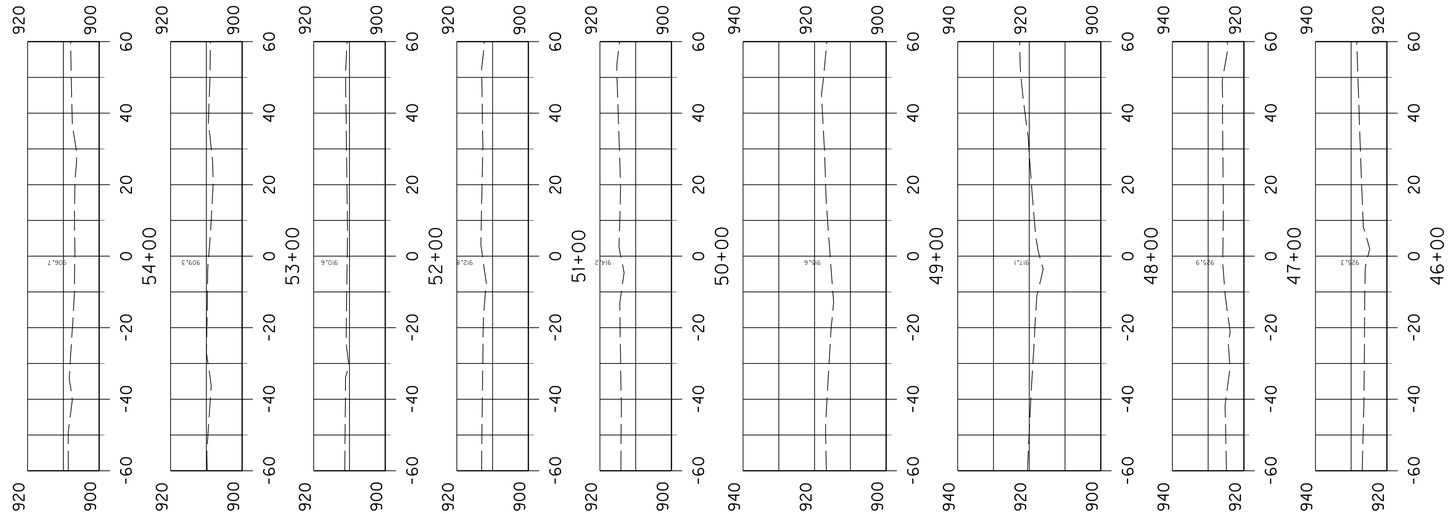
COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R178

SOMERSET NORTHERN BY-PASS
INTERSTATE 66

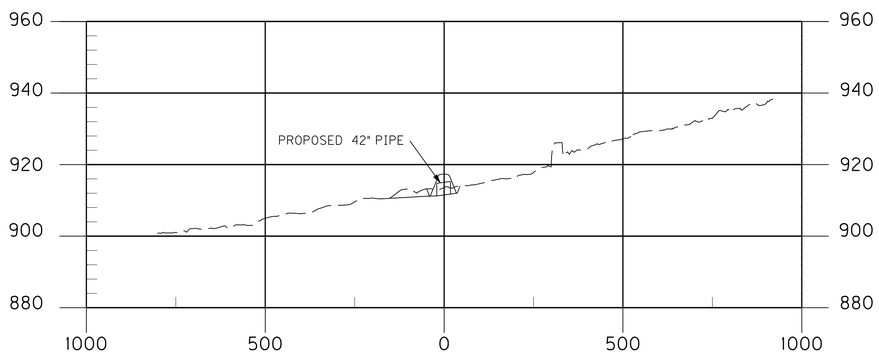
CULVERT SITUATION

57+42, NELSON VALLEY ROAD
TRIPLE 42" PIPE CULVERT

NOTE: BASELINE STA. 50+00 =
STA. 57+42, NELSON VALLEY ROAD
SKEW 13° 30' LT

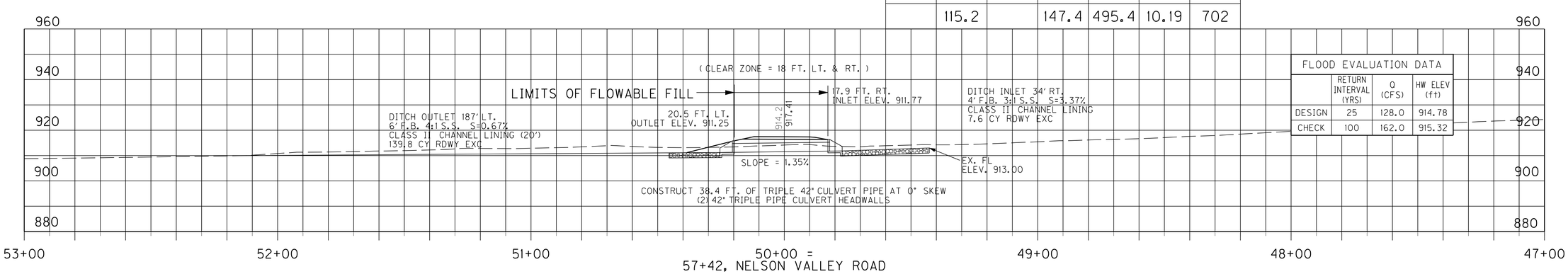


CHANNEL SECTIONS
SCALE: 1" = 20' HORIZ
1" = 20' VERT



STREAM PROFILE
SCALE: 1" = 200' HORIZ
1" = 20' VERT

	CULVERT PIPE 42 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	115.2		147.4	495.4	10.19	702



FLOOD EVALUATION DATA

	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	128.0	914.78
CHECK	100	162.0	915.32

CULVERT SECTION
SCALE: 1" = 20' HORIZ
1" = 20' VERT

PIPE SECTION
NELSON VALLEY ROAD
STA. 57+42

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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JDO
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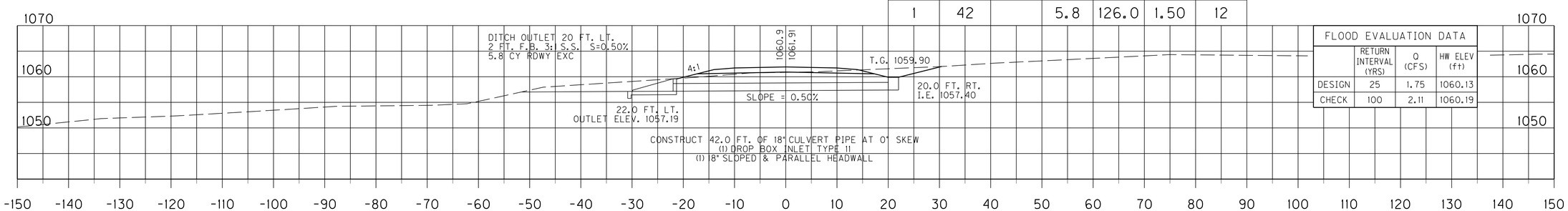
FORM NO. 2

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R179

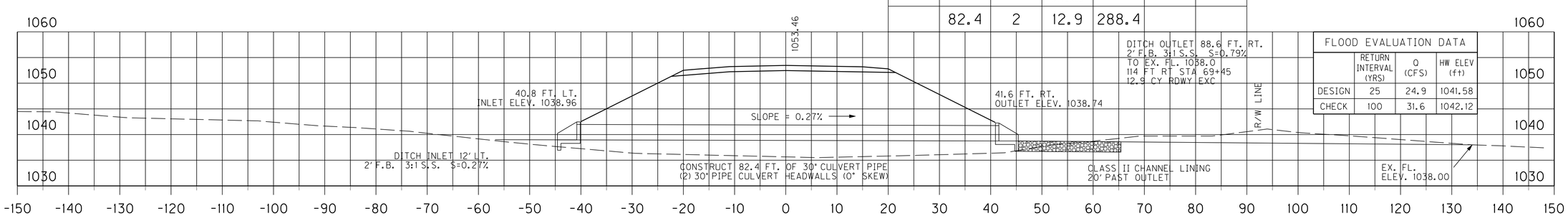
DBI TYPE 11	CULVERT PIPE 18 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	42		5.8	126.0	1.50	12



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	1.75	1060.13
CHECK	100	2.11	1060.19

32+70, JOHNS LANE

	CULVERT PIPE 30 INCH	PIPE CULVERT HEADWALL 30 IN	ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES		
	82.4	2	12.9	288.4		



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	24.9	1041.58
CHECK	100	31.6	1042.12

69+00, OLD STILESVILLE ROAD
0° SKEW

PREPARED BY ____ DATE ____
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APPROVED BY ____ DATE ____

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JDD
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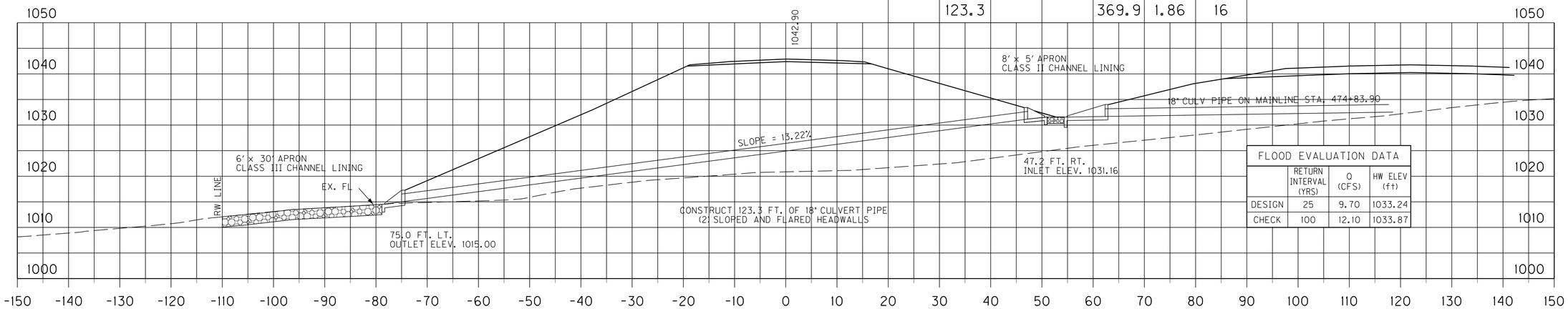
FORM NO. 2

PIPE SECTIONS
OLD STILESVILLE ROAD - STA. 69+00
JOHNS LANE - STA. 32+70

COUNTY OF	ITEM NO.	SHEET NO.
PULASKI	8-59.50	R180

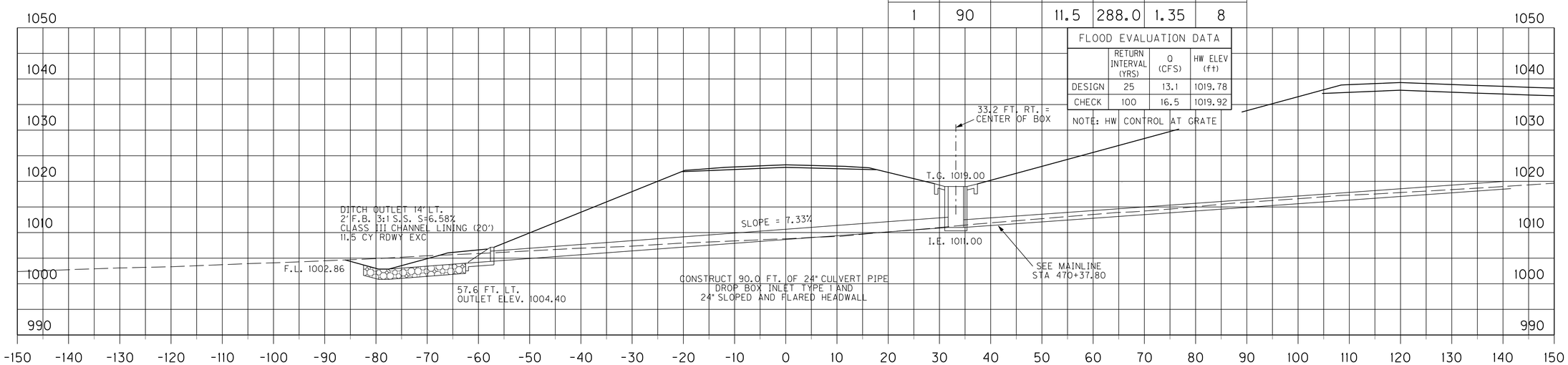
	CULVERT PIPE 18 INCH			FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
	123.3			369.9	1.86	16



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	9.70	1033.24
CHECK	100	12.10	1033.87

39+91.70, ACCESS ROAD NO. 2
25° LT SKEW

DBI TYPE 1	CULVERT PIPE 24 INCH		ROADWAY EXCAVATION FOR IN-OUT DITCHES	FABRIC GEOTEXTILE TYPE IV FOR PIPES	CLASS "A" CONCRETE	STEEL REINF
1	90		11.5	288.0	1.35	8



FLOOD EVALUATION DATA			
	RETURN INTERVAL (YRS)	Q (CFS)	HW ELEV (ft)
DESIGN	25	13.1	1019.78
CHECK	100	16.5	1019.92

NOTE: HW CONTROL AT GRATE

34+86.35, ACCESS ROAD NO. 2
31° LT SKEW

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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Cell Name: sp
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JDQ
1-92
FORM NO. 2

PIPE SECTIONS
ACCESS ROAD NO. 2
STA. 34+86.35 & 39+91.70