



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

October 15, 2014

CALL NO. 100
CONTRACT ID NO. 141051
ADDENDUM # 1

Subject: Calloway County, STP BRZ 0103 (338)
Letting October 24, 2014

- (1) Revised - Plan Sheets - R1, R2A, R4, R5, R6, R8, R9, R13, X2, X3, & X4
- (2) Revised - Bid Items - Pages 122-123 of 123

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Diana Castle Radcliffe".

Diana Castle Radcliffe
Director
Division of Construction Procurement

DR:ks
Enclosures



An Equal Opportunity Employer M/F/D

COUNTY OF	ITEM NO.	SHEET NO.
CALLOWAY	01-1136.00	RI

REVISED 10-9-14

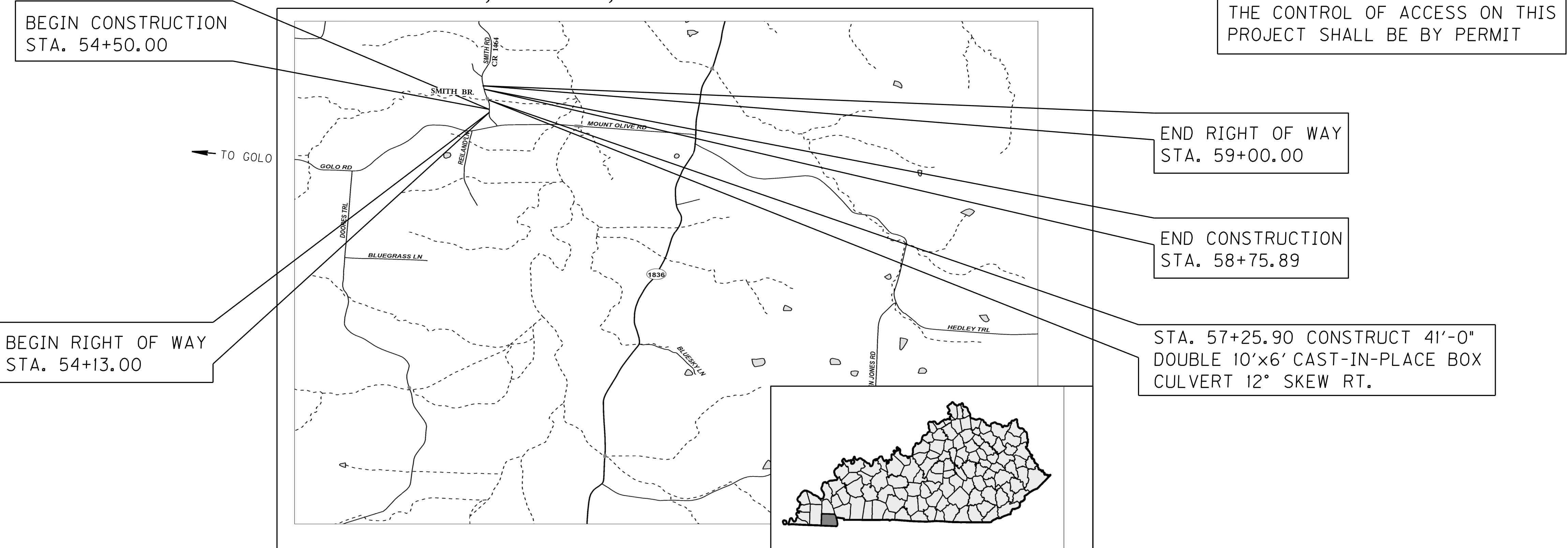


Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

PLANS OF PROPOSED PROJECT CALLOWAY COUNTY

STP BRZ 0103(338)
CR 1464 BRIDGE REPLACEMENT OVER SMITH BRANCH

GRADE, DRAIN, AND SURFACING PLANS



- Removed Sht. 13 & Renamed Sht. 14 To Sht. 13. Renumbered Index
- Added Pay Item 21447NC
- Changed R/W Lines To Temp Esmt. & Added Perm. Drainage Esmt.
- Added Temporary Stream Crossing Detail
- Changed R/W To Temp Esmt. for Construction.

SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2A	GENERAL SUMMARY SHEET
R3-R4	PLAN AND PROFILE SHEET
R5	RIGHT OF WAY SUMMARY SHEET
R6	RIGHT OF WAY STRIP MAP SHEET
R7	MAINTENANCE OF TRAFFIC TOUR SHEET
R8	EROSION CONTROL SHEET
R9	COORDINATE CONTROL SHEET
R10-R11	DETAIL SHEET
R12	DETAIL SHEET
S1 - S11	STRUCTURE PLANS
X1-X4	CROSS SECTION SHEETS

SHEETS NOT INCLUDED IN TOTAL SHEETS
R2A & R2B

STANDARD DRAWINGS	
NUMBER	NUMBER OF STANDARD DRAWINGS
RDD-040-04	1
RDI-011-02	1
RDI-016-02	1
RDI-020-08	1
RDI-021	1
RDI-035-01	1
RDP-001-05	1
RDP-005-04	1
RDP-010-08	1
RDX-210-02	1
RDX-220-04	1
RGX-001-05	1
RGX-200	1
RPM-110-06	1
	14

ACTIVE SEPIA LIST (NONE)

DESIGN CRITERIA

CLASS OF HIGHWAY RURAL LOCAL ROAD
 TYPE OF TERRAIN ROLLING
 DESIGN SPEED 30 MPH
 REQUIRED NPSD _____
 REQUIRED PSD _____
 LEVEL OF SERVICE _____
 ADT PRESENT (2012) 30
 ADT FUTURE (2035) 50
 DHV (2012) 10 (2035) 20
 D % _____
 T % 13 (2035)

GEOGRAPHIC COORDINATES

LATITUDE 36 DEGREES 44 MINUTES 34 SECONDS NORTH
 LONGITUDE 88 DEGREES 28 MINUTES 04 SECONDS WEST

DESIGNED

% RESTRICTED SD _____
 LEVEL OF SERVICE _____
 MAX. DISTANCE W/O PASSING _____

CR 1464 STP BRZ 0103(338)							
LENGTH	ADDED / DEDUCTED	FOR EQUALITIES	NOT INCLUDED	LENGTH	ADDED / DEDUCTED	FOR EQUALITIES	NOT INCLUDED
425.89		0.00					
0.081							



LAYOUT MAP

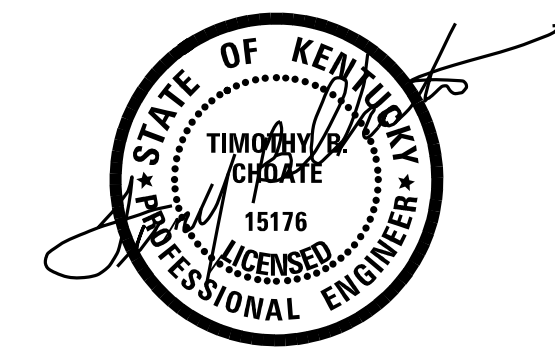
THIS PROJECT IS OFF THE NH SYSTEM

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
CALLOWAY

CR 1464 BRIDGE REPLACEMENT OVER SMITH BRANCH

ITEM NO. 01-1136.00
 PROJECT STP BRZ 0103(338)
 NUMBER: FD52-018-1464-000-001
 LETTING DATE: _____
 RECOMMENDED BY: SUSAN OATMAN, PE 8-8-2014
 PROJECT MANAGER DATE:
 PLAN APPROVED BY: _____
 STATE HIGHWAY ENGINEER DATE:

BFW BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.



FILE NAME: R00100LS.DGN
USER: RUCPS
DATE PLOTTED: October 2, 2014
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
CALLOWAY	01-1136.00	RI

REVISED 10-9-14



Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

PLANS OF PROPOSED PROJECT CALLOWAY COUNTY

STP BRZ 0103(338)
CR 1464 BRIDGE REPLACEMENT OVER SMITH BRANCH

GRADE, DRAIN, AND SURFACING PLANS

SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2	TYPICAL SECTIONS
R2A	GENERAL SUMMARY SHEET
R2B	GENERAL NOTES SHEET
R3-R4	PLAN AND PROFILE SHEET
R5	RIGHT OF WAY SUMMARY SHEET
R6	RIGHT OF WAY STRIP MAP SHEET
R7	MAINTENANCE OF TRAFFIC/DETOUR SHEET
R8	EROSION CONTROL SHEET
R9	COORDINATE CONTROL SHEET
R10-R12	SOILS SHEETS
R13	DETAIL SHEET
S1 - S11	STRUCTURE PLANS
X1-X4	CROSS SECTION SHEETS

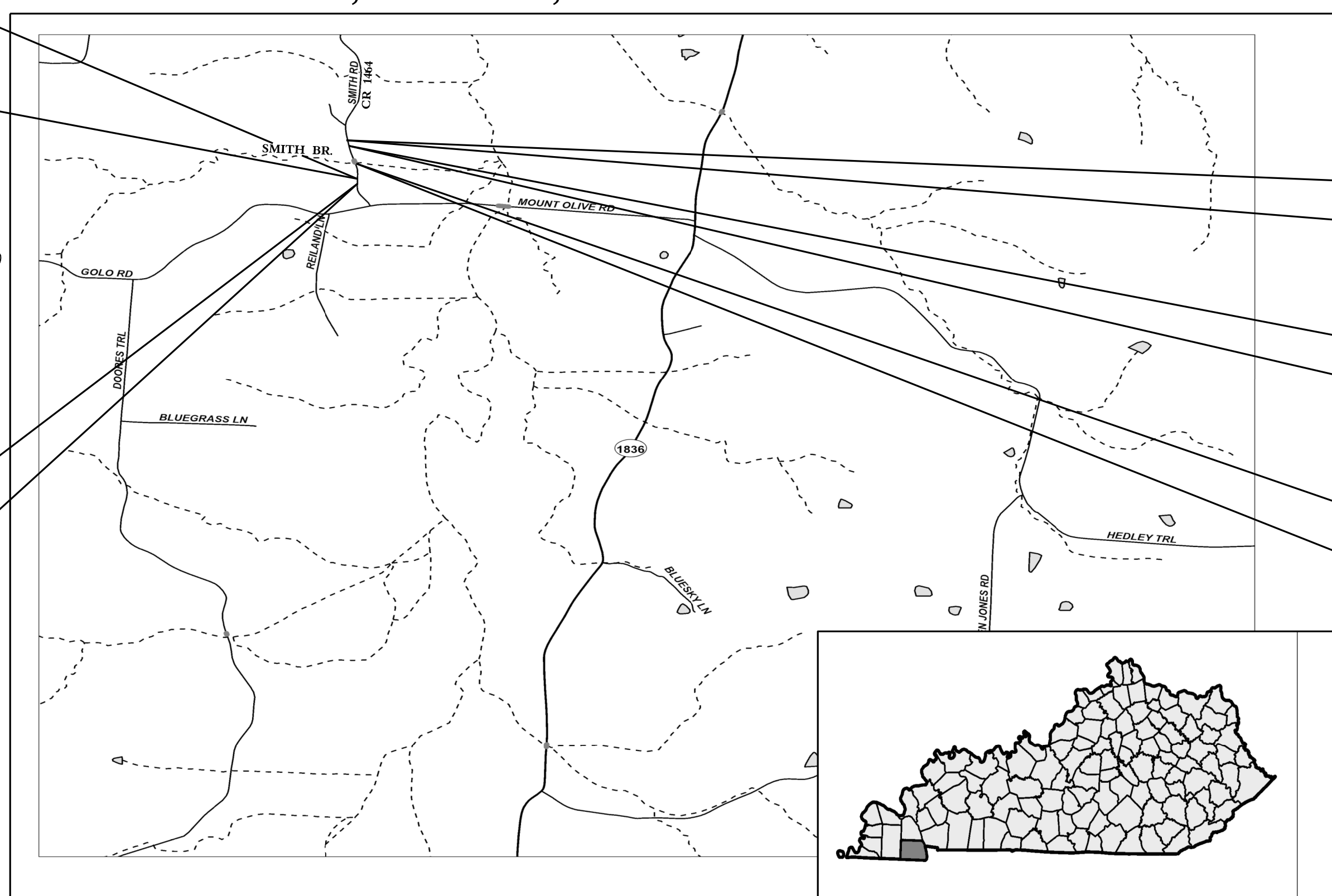
SHEETS NOT INCLUDED IN TOTAL SHEETS
R2A & R2B

STANDARD DRAWINGS	
NUMBER	NUMBER OF STANDARD DRAWINGS
RDD-040-04	RGX-200
RDI-011-02	RPM-110-06
RDI-016-02	
RDI-020-08	
RDI-021	
RDI-035-01	
RDP-001-05	
RDP-005-04	
RDP-010-08	
RDX-210-02	
RDX-220-04	
RGX-001-05	

ACTIVE SEPIA LIST (NONE)

BEGIN CONSTRUCTION
STA. 54+50.00

BEGIN RIGHT OF WAY
STA. 54+13.00



THE CONTROL OF ACCESS ON THIS
PROJECT SHALL BE BY PERMIT

END RIGHT OF WAY
STA. 59+00.00

END CONSTRUCTION
STA. 58+75.89

STA. 57+25.90 CONSTRUCT 41'-0"
DOUBLE 10'x6' CAST-IN-PLACE BOX
CULVERT 12° SKEW RT.



GRAPHIC SCALE IN MILES

LAYOUT MAP

THIS PROJECT IS OFF THE NH SYSTEM

DESIGN CRITERIA

CLASS OF HIGHWAY RURAL LOCAL ROAD
 TYPE OF TERRAIN ROLLING
 DESIGN SPEED 30 MPH
 REQUIRED NPSD _____
 REQUIRED PSD _____
 LEVEL OF SERVICE _____
 ADT PRESENT (2012) 30
 ADT FUTURE (2035) 50
 DHV (2012) 10 (2035) 20
 D % _____
 T % 13 (2035)

GEOGRAPHIC COORDINATES

LATITUDE 36 DEGREES 44 MINUTES 34 SECONDS NORTH
 LONGITUDE 88 DEGREES 28 MINUTES 04 SECONDS WEST

DESIGNED

% RESTRICTED SD _____
 LEVEL OF SERVICE _____
 MAX. DISTANCE W/O PASSING _____

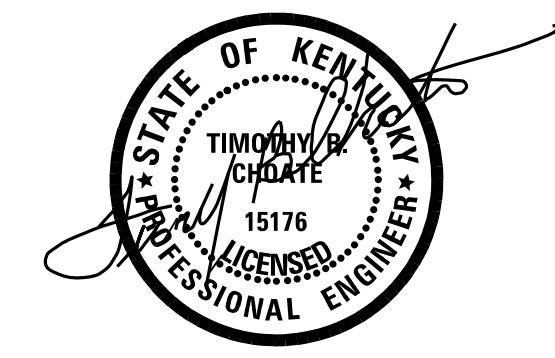
CR 1464 STP BRZ 0103(338)							
LENGTH	ADDED / DEDUCTED	FOR EQUALITIES	NOT INCLUDED	LENGTH	ADDED / DEDUCTED	FOR EQUALITIES	NOT INCLUDED
425.89	0.081	0.00					

USER: RUCPS DATE PLOTTED: October 2, 2014
 E-SHEET NAME: MicroStation v8.11.7.443

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
CALLOWAY
CR 1464 BRIDGE REPLACEMENT OVER SMITH BRANCH

ITEM NO. 01-1136.00
 PROJECT STP BRZ 0103(338)
 NUMBER: FD52-018-1464-000-001
 LETTING DATE: _____
 RECOMMENDED BY: SUSAN OATMAN, PE 8-8-2014
 PROJECT MANAGER DATE:
 PLAN APPROVED BY: [Signature] 10/14/2014
 STATE HIGHWAY ENGINEER DATE:

BFW BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.



REVISED 10-9-14

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	CR 1464			
ROADWAY						
1000	PERFORATED PIPE - 4 INCH	LF	20			
1010	NON-PERFORATED PIPE - 4 INCH	LF	8			
1032	PERFORATED PIPE HEADWALL TY 4-4 IN	EACH	1			
2200	ROADWAY EXCAVATION	CU YD	490			
2242	WATER ④	M GAL	1			
2483	CHANNEL LINING CLASS II	TON	112			
2484	CHANNEL LINING CLASS III	TON	222			
2545	CLEARING AND GRUBBING ③	LS	1			
2562	SIGNS	SQ FT	112			
2569	DEMobilIZATION	LS	1			
2585	EDGE KEY	LF	27			
2596	FABRIC-GEOTEXTILE TYPE I	SQ YD	402			
2726	STAKING	LP SUM	1			
5963	INITIAL FERTILIZER	TON	1			
5964	20-10-10 FERTILIZER	TON	1			
5985	SEEDING AND PROTECTION	SQ YD	2252			
5992	AGRICULTURAL LIMESTONE	TON	2			
MAINTENANCE OF TRAFFIC						
2014	BARRICADE TYPE III	EACH	4			
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM	1			
21447NC	TEMPORARY STREAM CROSSING ⑦	LP SUM	1			
EROSION CONTROL						
2701	TEMP SILT FENCE	LF	326			
2703	SILT TRAP TYPE A	EACH	4			
2704	SILT TRAP TYPE B	EACH	4			
2706	CLEAN SILT TRAP TYPE A	EACH	12			
2707	CLEAN SILT TRAP TYPE B	EACH	12			
2709	CLEAN TEMP SILT FENCE	LF	326			
5950	EROSION CONTROL BLANKET	SQ YD	1089			
5952	TEMPORARY MULCH	SQ YD	2274			
5953	TEMP SEEDING AND PROTECTION	SQ YD	2027			
STRUCTURES						
2731	REMOVING EXISTING STRUCTURE (STA. 57+25) ⑤	LP SUM	1			

SEE STRUCTURE PLANS FOR ADDITIONAL QUANTITIES

EMBANKMENT EXCAVATION
 * 71 CU YD * 490 CU YD

* INCLUDES EARTHWORK FOR ENTRANCES.

ESTIMATE FOR EARTHWORK CALCULATIONS FOR DESIGN ONLY. THE CONTRACTOR IS ADVISED THAT THE EARTHWORK CALCULATIONS SHOWN ARE FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTORS RESPONSIBILITY.

PIPE DRAINAGE SUMMARY

SHEET NO.	ITEM CODE	SKEW	COVER HEIGHT	DESIGN PH LEVEL	ENTRANCE PIPE		REMARKS
						15" EQUIV	
	UNIT TO BID					450	
						LF	
R4	LT. STA. 55+50	9° RT	0.5	M		218	
	TOTAL PROJECT					218	

- NOTES**
- ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.
- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH
 - ② ESTIMATED FULL DEPTH = 12"
 - ③ ESTIMATED AT 0.47 AC
 - ④ FOR DUST CONTROL
 - ⑤ SEE SPECIAL GENERAL NOTE.
 - ⑥ FOR PERFORATED PIPE HEADWALL.
 - ⑦ SEE DETAIL SHEET R13.

Added Footnote for Item 21447NC

PAVING AREAS

ITEM	CR 1464	ENTRANCES	S Q U A R E Y A R D S			
4" CRUSHED STONE BASE	817	903				
4" CRUSHED STONE BASE (SHOULDERS)	137					
CRUSHED STONE BASE (FULL DEPTH) ②	95					
2 1/4" CL2 ASPH BASE 0.75D PG64-22	2394	900				
2 1/4" CL2 ASPH BASE 0.75D PG64-22 (SHOULDERS)	344					
1 1/4" CL2 ASPH SURF 0.38D PG64-22	780	897				
1 1/4" CL2 ASPH SURF 0.38D PG64-22 (SHOULDERS)	95					

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	CR 1464	ENTRANCES	TOTAL PROJECT
3	CRUSHED STONE BASE ①	TON	286	208	494
78	CRUSHED AGGREGATE SIZE No. 2 ⑥	TON	1		1
100	ASPHALT SEAL AGGREGATE	TON	1		1
103	ASPHALT SEAL COAT	TON	2		2
221	CL2 ASPH BASE 0.75D PG64-22	TON	339	112	451
301	CL2 ASPH SURF 0.38D PG64-22	TON	61	62	123

Removed Items 2429, 2432

Added Item 21447NC

FILE NAME: R03200ASU.DGN

USER: m1096
DATE PLOTTED: October 2, 2014

E-SHEET NAME:

MicroStation v8.11.7.443

REVISED 10-9-14

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	CR 1464			
ROADWAY						
1000	PERFORATED PIPE - 4 INCH	LF	20			
1010	NON-PERFORATED PIPE - 4 INCH	LF	8			
1032	PERFORATED PIPE HEADWALL TY 4-4 IN	EACH	1			
2200	ROADWAY EXCAVATION	CU YD	490			
2242	WATER ④	M GAL	1			
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2484	CHANNEL LINING CLASS III	TON	222			
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2596	FABRIC-GEOTEXTILE TYPE I	SQ YD	402			
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21447NC	TEMPORARY STREAM CROSSING ⑦	LP SUM	1			
EROSION CONTROL						
2701	TEMP SILT FENCE	LF	326			
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STRUCTURES						
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PIPE DRAINAGE SUMMARY

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						15" EQUIV	
	UNIT TO BID					450	
						LF	
R4	LT. STA. 55+50	9° RT	0.5	M		218	
TOTAL PROJECT						218	

NOTES

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH
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- ⑤ SEE SPECIAL GENERAL NOTE.
- ⑥ FOR PERFORATED PIPE HEADWALL.
- ⑦ SEE DETAIL SHEET R13.

PAVING AREAS

ITEM	CR 1464	ENTRANCES										
			S	Q	A	R	E	Y	A	R	D	S
4" CRUSHED STONE BASE	817	903										
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PAVING SUMMARY

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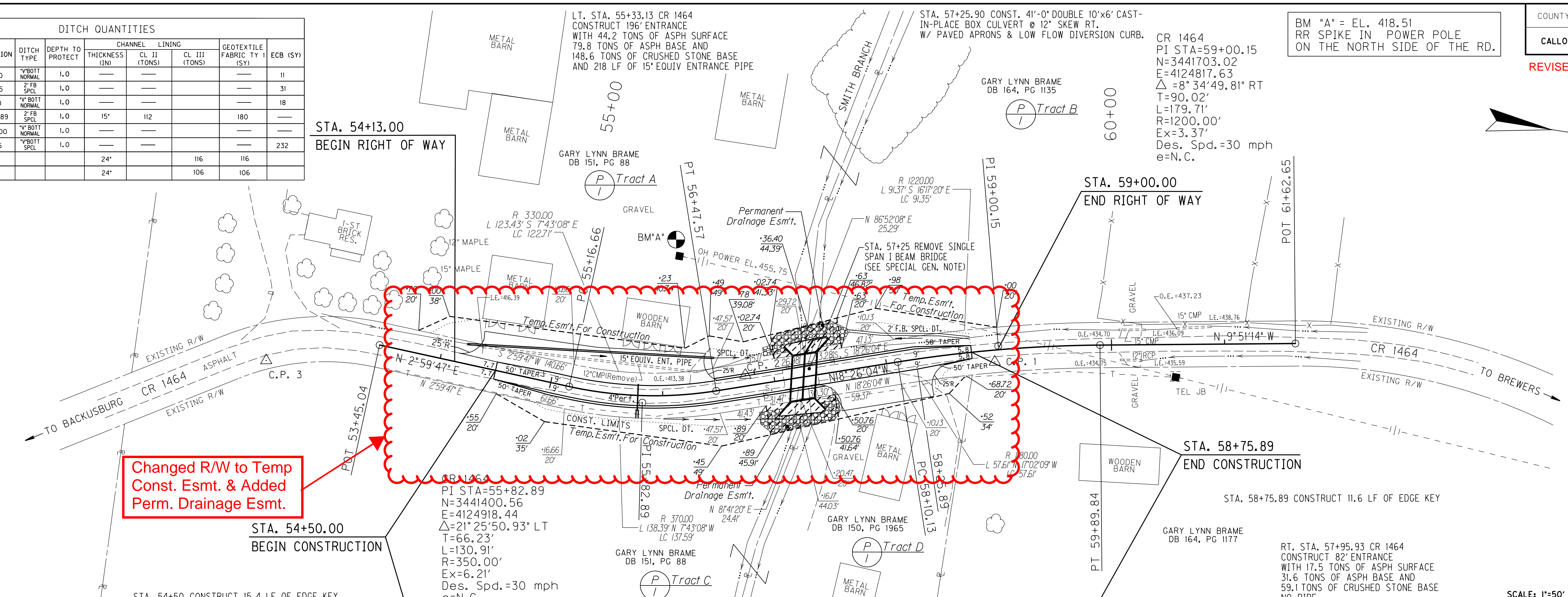
DITCH QUANTITIES								
OFFSET	STATION TO STATION	DITCH TYPE	DEPTH TO PROTECT	CHANNEL THICKNESS (IN)	LINING CL II (TONS)	CL III (TONS)	GEOTEXTILE FABRIC TY I (SY)	ECB (SY)
LT	53+76 TO 54+20	V BOTI NORMAL	1.0					11
LT	56+50 TO 56+75	2' FB SPL	1.0					31
LT	56+75 TO 57+10	V BOTI NORMAL	1.0					18
LT	57+60 TO 58+75.89	V BOTI NORMAL	1.0	15"	112		180	
LT	58+75.89 TO 59+00	V BOTI NORMAL	1.0					
RT	55+00 TO 57+05	V BOTI SPL	1.0					232
LT	BOX INLET		24"			116	116	
RT	BOX OUTLET		24"			106	106	

COUNTY OF	ITEM NO.	SHEET NO.
CALLAWAY	01-1136.00	R4

REVISED 10-9-14

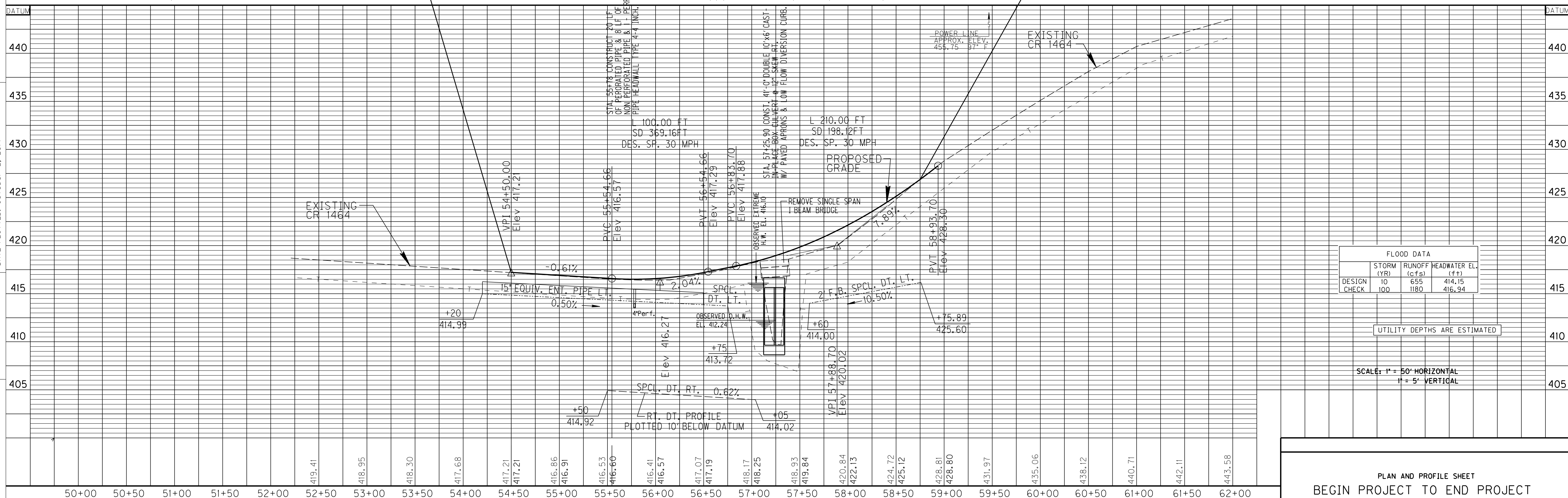
BM "A" = EL. 418.51
RR SPIKE IN POWER POLE ON THE NORTH SIDE OF THE RD.

CR 1464
PI STA=59+00.15
N=3441703.02
E=4124817.63
Δ=8°34'49.81" RT
T=90.02'
L=179.71'
R=1200.00'
Ex=3.37'
Des. Spd.=30 mph
e=N.C.



Changed R/W to Temp Const. Esmt. & Added Perm. Drainage Esmt.

FILE NAME: R00400PL.DGN
 USER: PRCPS
 DATE PLOTTED: October 2, 2014
 E-SHEET NAME: MicroStation v8.11.7.443



FLOOD DATA		
STORM (YR)	RUNOFF (CFS)	HEADWATER EL. (FT)
10	655	414.15
100	1180	416.94

UTILITY DEPTHS ARE ESTIMATED

SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

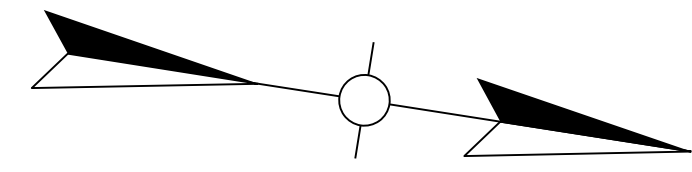
PLAN AND PROFILE SHEET
BEGIN PROJECT TO END PROJECT

DITCH QUANTITIES								
OFFSET	STATION TO STATION	DITCH TYPE	DEPTH TO PROTECT	CHANNEL THICKNESS (IN)	LINING CL II (TONS)	CL III (TONS)	GEOTEXTILE FABRIC TY I (SY)	ECB (SY)
LT	53+76 TO 54+20	V BOTI NORMAL	1.0					11
LT	56+50 TO 56+75	2' FB SPL	1.0					31
LT	56+75 TO 57+10	V BOTI NORMAL	1.0					18
LT	57+60 TO 58+75.89	V BOTI NORMAL	1.0	15"	112		180	
LT	58+75.89 TO 59+00	2' FB SPL	1.0					
RT	55+00 TO 57+05	V BOTI SPL	1.0					232
LT	BOX INLET		24"			116	116	
RT	BOX OUTLET		24"			106	106	

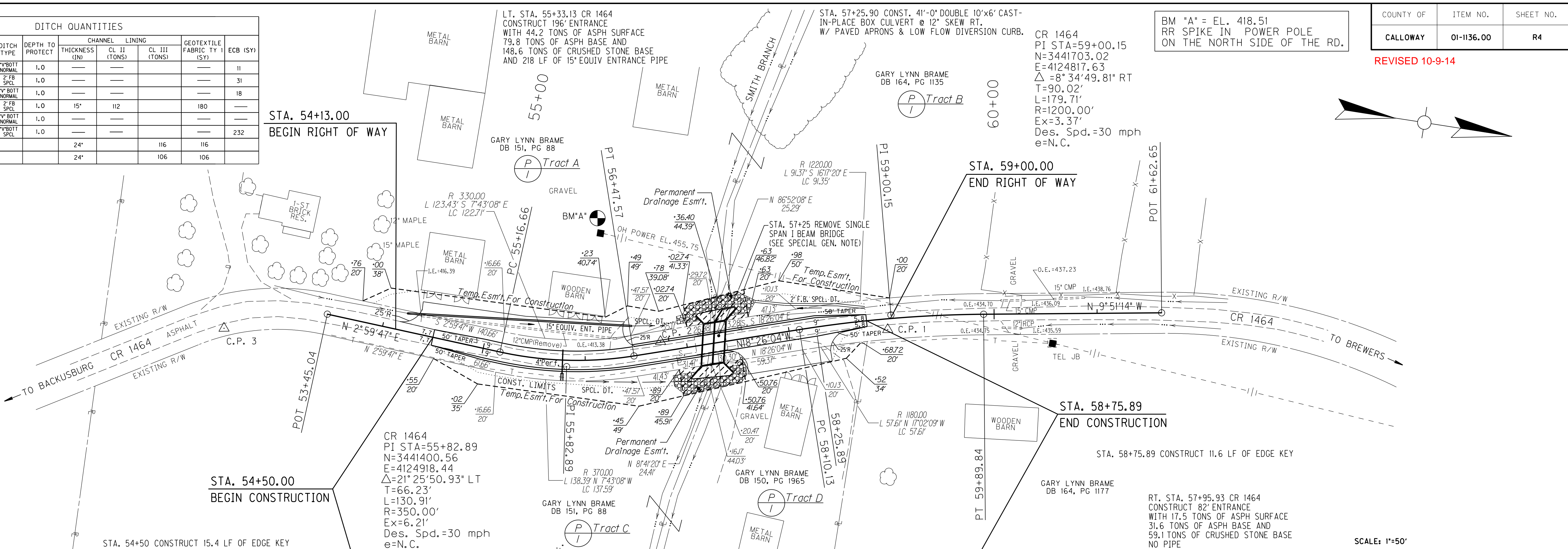
COUNTY OF	ITEM NO.	SHEET NO.
CALLOWAY	01-1136.00	R4

BM "A" = EL. 418.51
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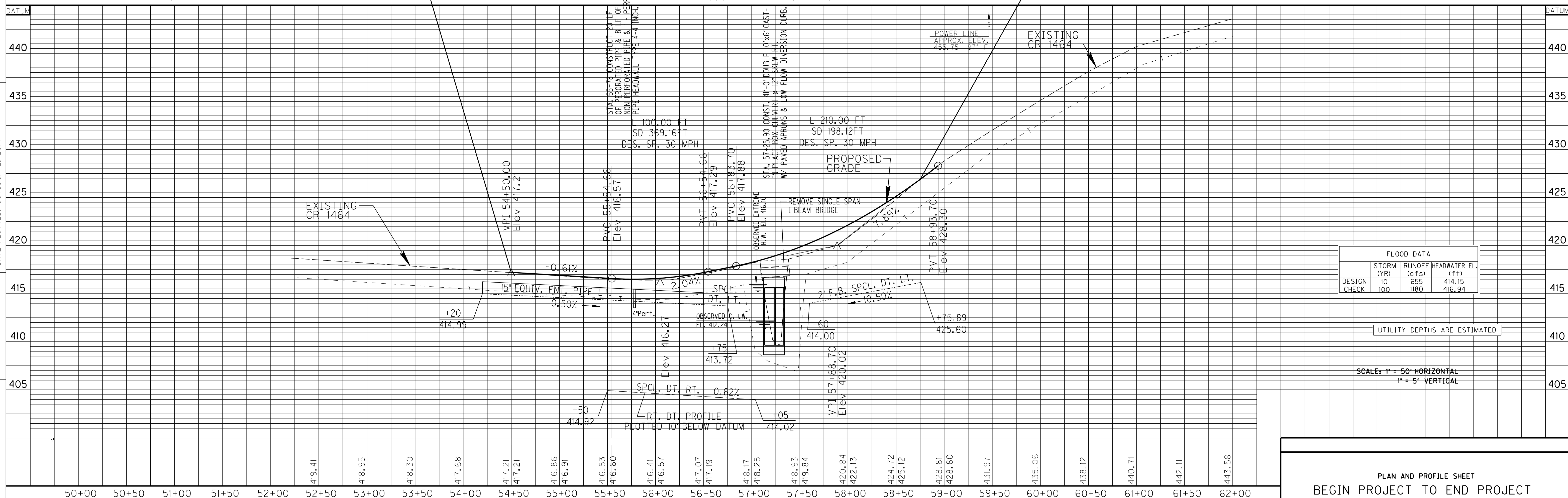
REVISED 10-9-14



CR 1464
PI STA=59+00.15
N=3441703.02
E=4124817.63
Δ=8°34'49.81" RT
T=90.02'
L=179.71'
R=1200.00'
Ex=3.37'
Des. Spd.=30 mph
e=N.C.



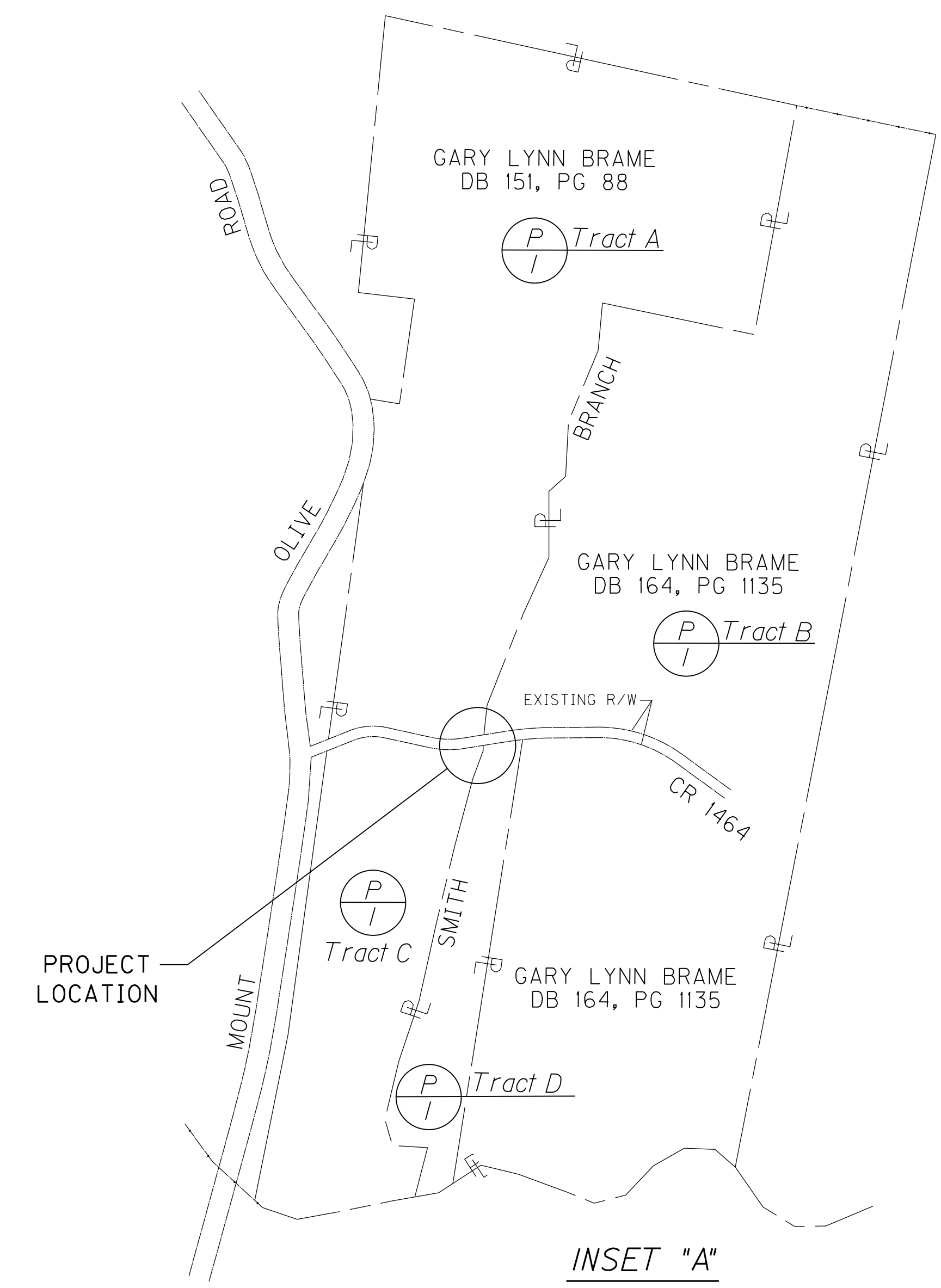
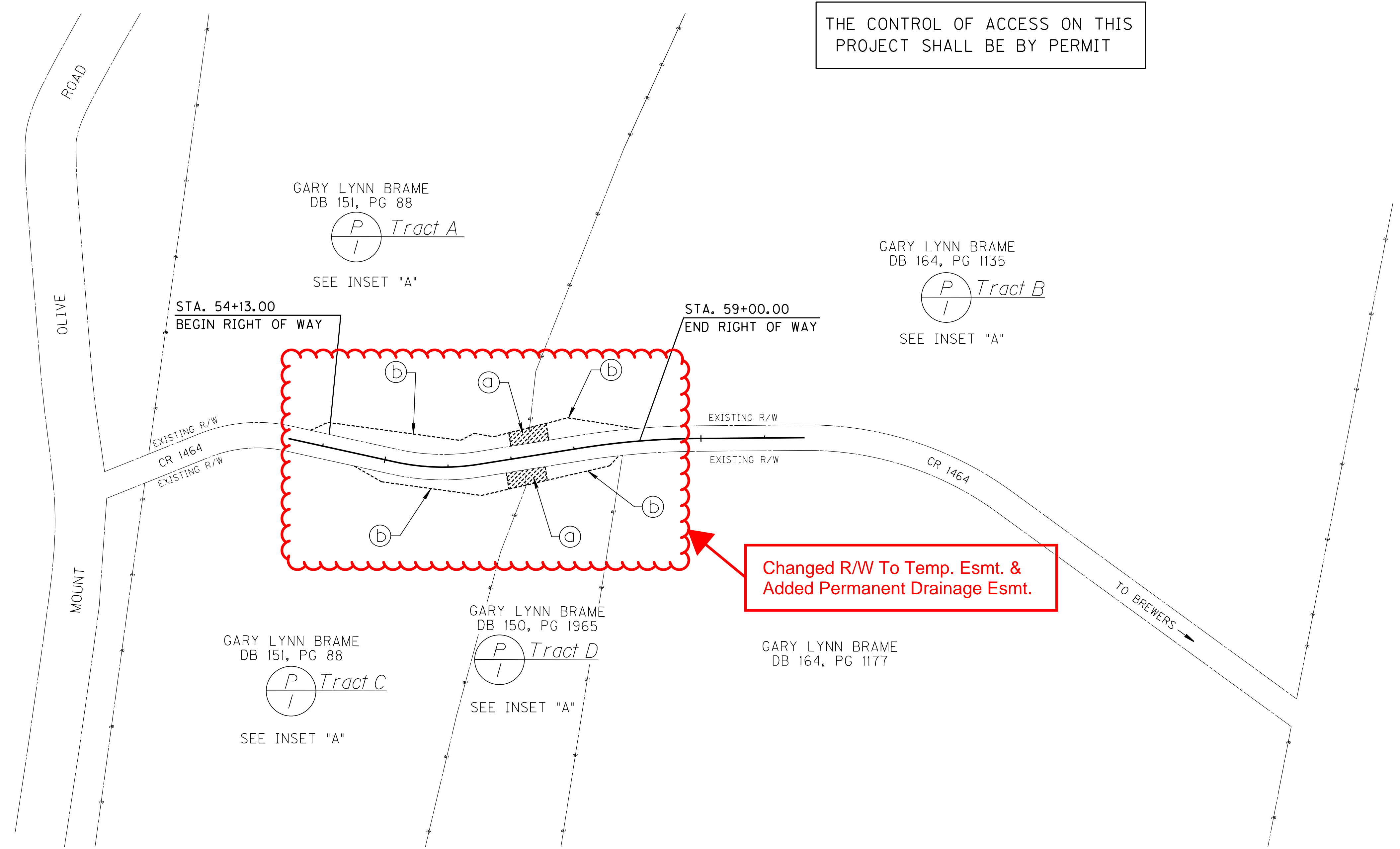
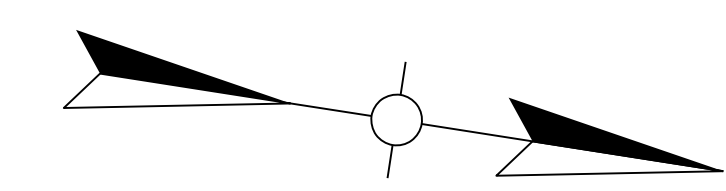
FILE NAME: R00400PL.DGN
 USER: PLOTTED: October 2, 2014
 DATE PLOTTED: October 2, 2014
 E-SHEET NAME: MicroStation v8.11.7.443



PLAN AND PROFILE SHEET
BEGIN PROJECT TO END PROJECT

REVISED 10-9-14

THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT

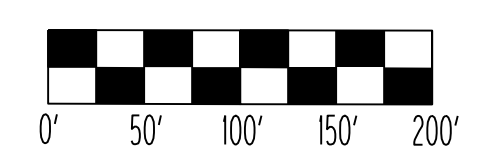


- PROPOSED EASEMENTS**
- Ⓐ PERMANENT DRAINAGE EASEMENT
 - Ⓑ TEMP. EASEMENT FOR CONSTRUCTION

Removed R/W & Added Permanent Drainage Esmt.

Changed R/W To Temp. Esmt. & Added Permanent Drainage Esmt.

INSET "A"
SCALE 1"=400'

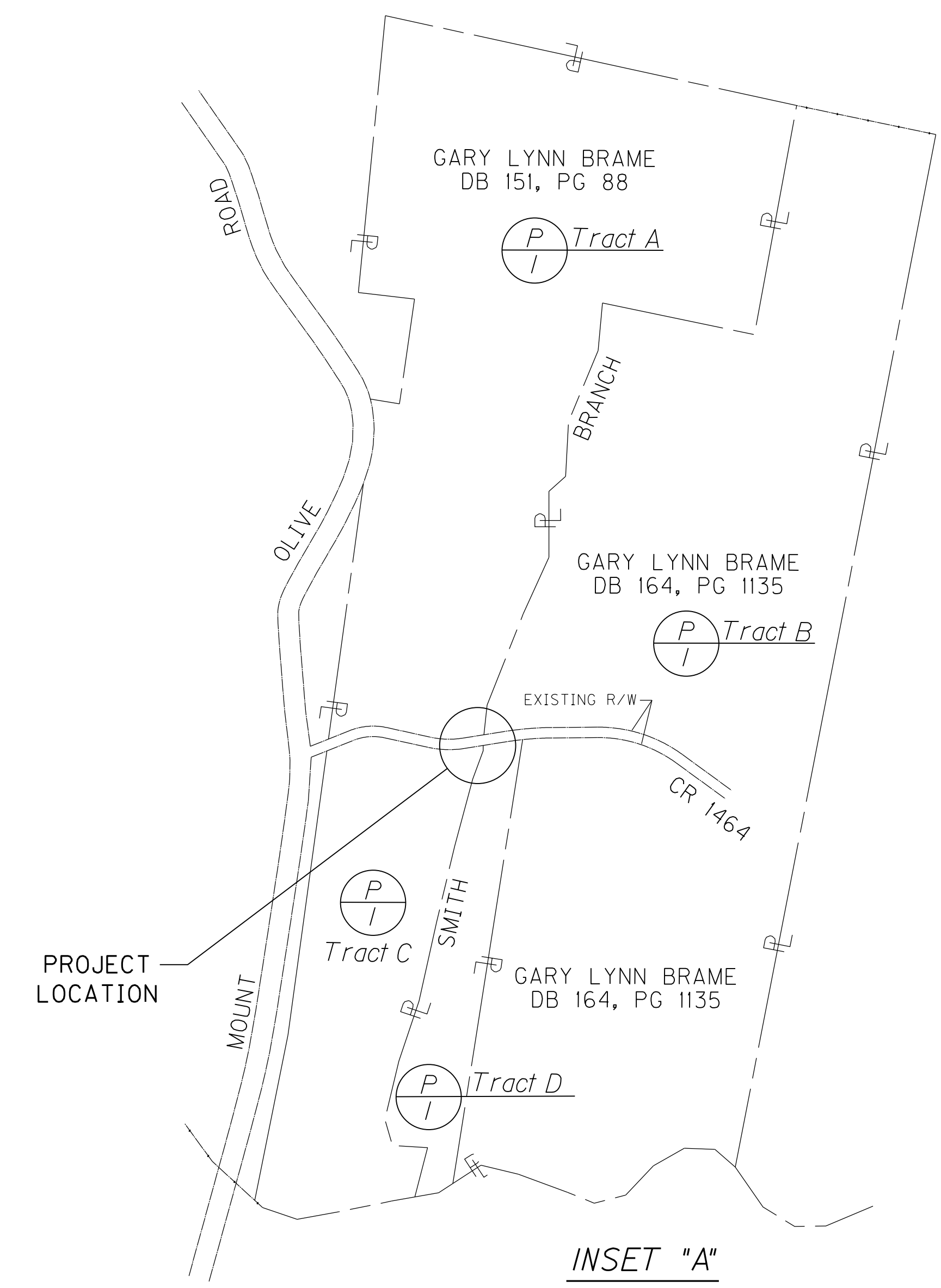
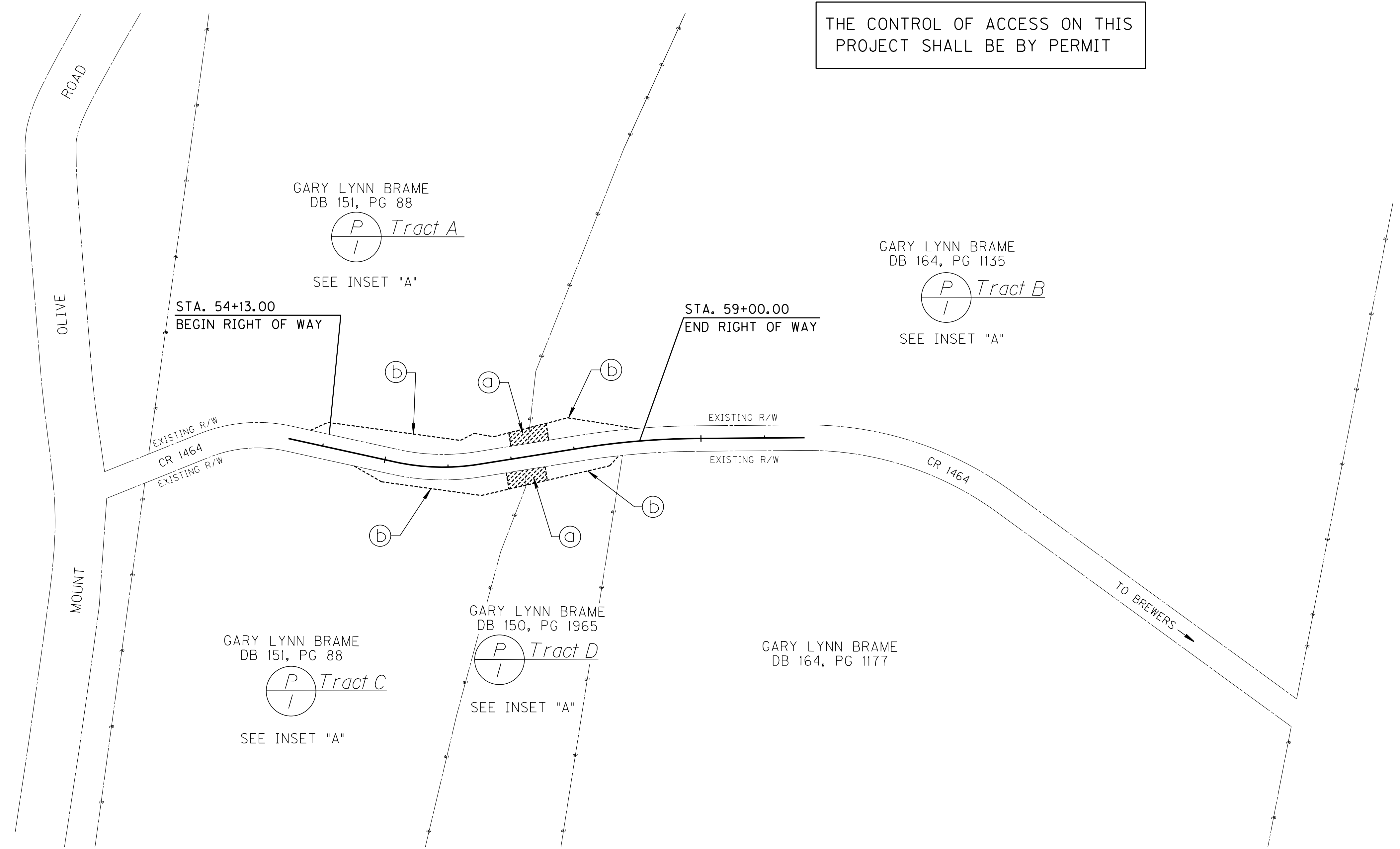
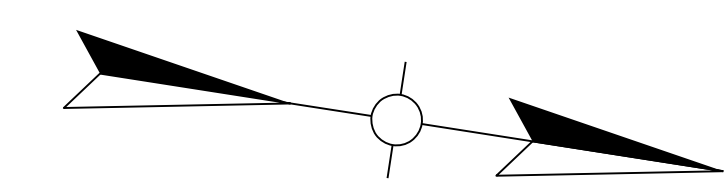


RIGHT OF WAY STRIP MAP

FILE NAME: R0600RW.DGN
 USER: bvolmer
 DATE PLOTTED: October 2, 2014
 E-SHEET NAME:
 MicroStation v8.11.7.443

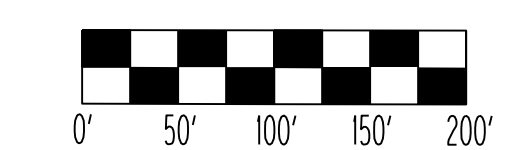
REVISED 10-9-14

THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT



PROPOSED EASMENTS

- Ⓐ PERMANENT DRAINAGE EASMENT
- Ⓑ TEMP. EASEMENT FOR CONSTRUCTION



RIGHT OF WAY STRIP MAP

FILE NAME: R0600RW.DGN
 USER: bvolmer
 DATE PLOTTED: October 2, 2014
 E-SHEET NAME:
 MicroStation v8.11.7.443

REVISED 10-9-14

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:

- UPGRADE AREAS NOT DISTURBED (ACRES).
- UPGRADE AREAS THAT HAVE BEEN RECLAIMED AND PROTECTED BY EROSION CONTROL BLANKET OR OTHER GROUND PROTECTION MATERIAL SUCH AS TEMPORARY MULCH.(ACRES).
- THE USE OF TEMPORARY MULCH IS ENCOURAGED.
- UPGRADE 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.
- UPGRADE 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 EXISTS, A SILT FENCE OR OTHER FILTER DEVICES MAY BE USED OR THE OVERLAND FLOW MAY BE DIVERTED TO ONE OF THE FOREMENTIONED 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.

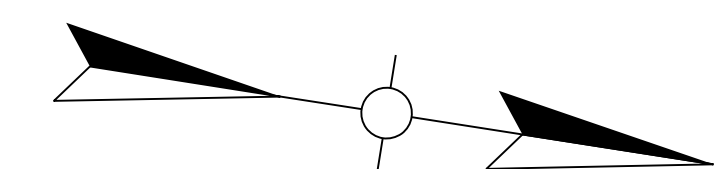
EROSION CONTROL MEASURES EMPLOYED BY THE CONTRACTOR WILL BE UNIQUE TO THE PROJECT AND WORK CONDITIONS AND SHALL BE APPROVED BY THE RESIDENT ENGINEER. THE DEVELOPMENT AND UTILIZATION OF THESE MEASURES WILL BE RECORDED AS PART OF THE BMP, KEPT ON SITE, AND AVAILABLE FOR PUBLIC INSPECTION.

EROSION CONTROL LEGEND

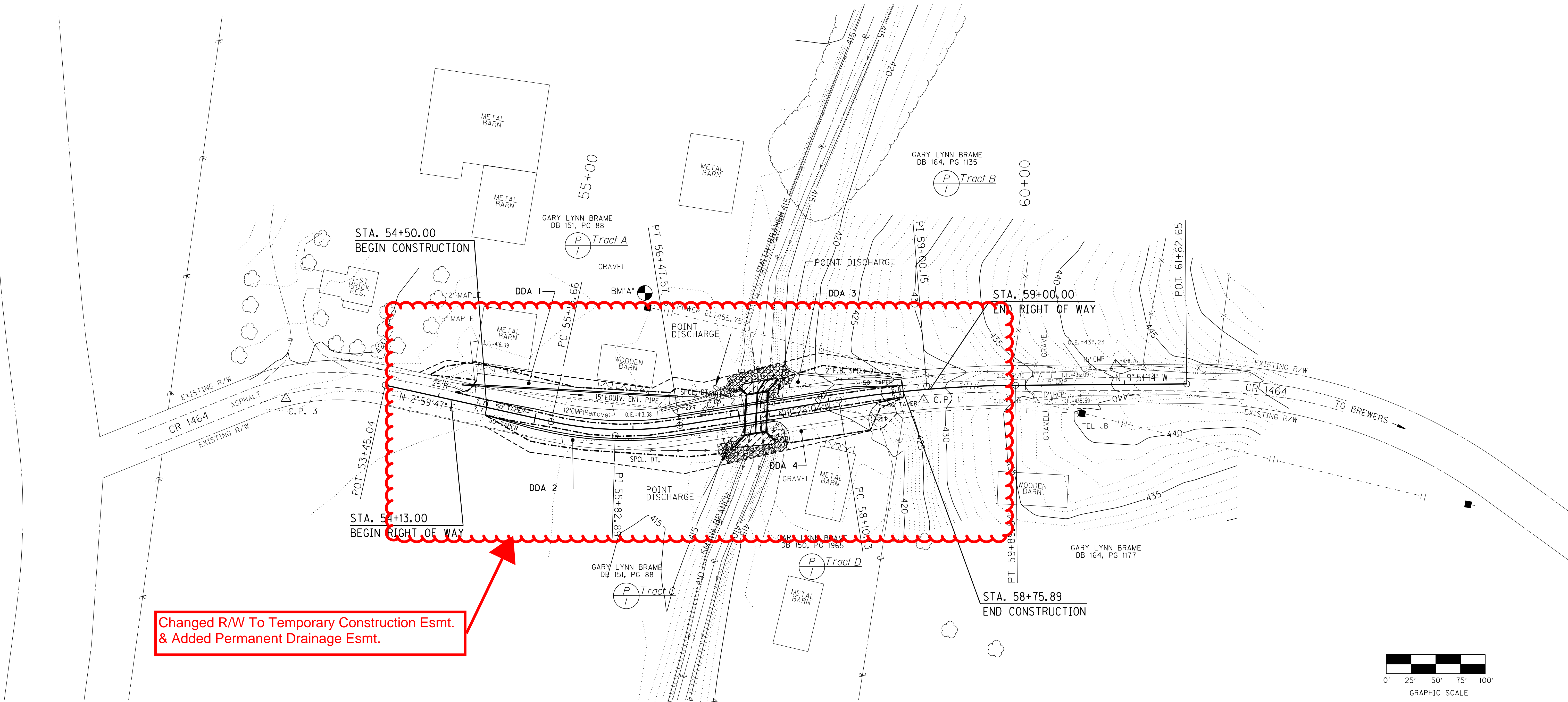
- SILT TRAP TYPE A ALTERNATE 1
- SILT TRAP TYPE A ALTERNATE 2
- SILT TRAP TYPE B
- SILT CHECK TYPE C
- SILT FENCE
- TEMPORARY SILT DITCH
- DISTURBED DRAINAGE AREA
- OVERLAND SHEET FLOW

DISTURBED DRAINAGE AREAS

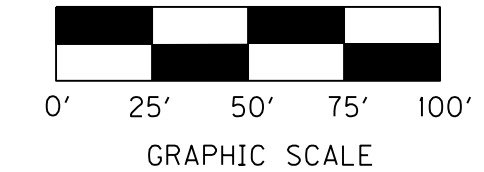
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 1	0.21	756.00
DDA 2	0.11	396.00
DDA 3	0.07	252.00
DDA 4	0.08	288.00



FILE NAME: R00800EC.DGN
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 E-SHEET NAME:
 MicroStation v8.11.7.443



Changed R/W To Temporary Construction Esmt. & Added Permanent Drainage Esmt.



REVISED 10-9-14

EROSION CONTROL NOTES

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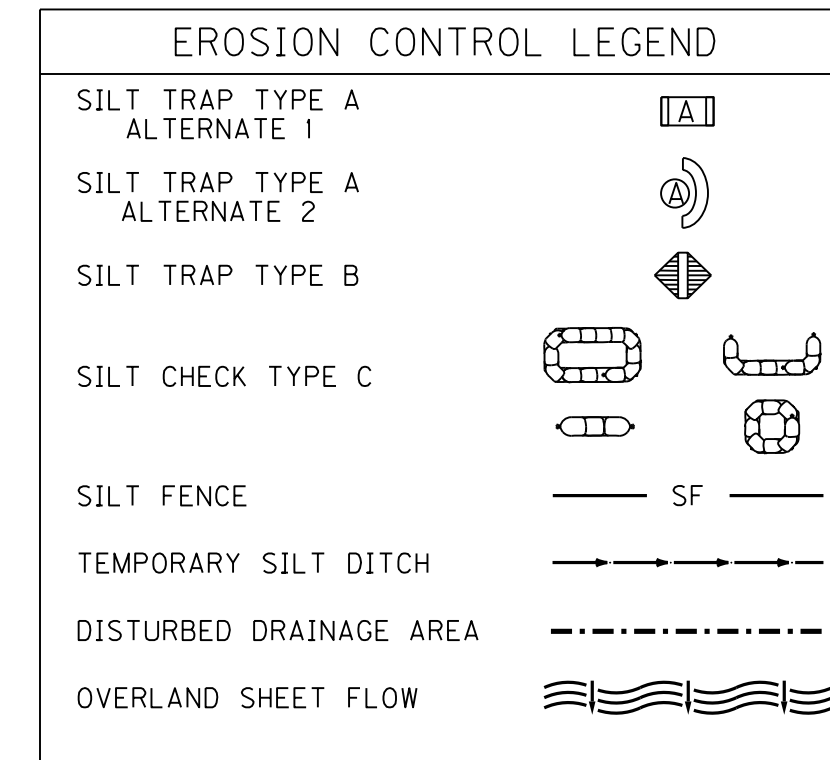
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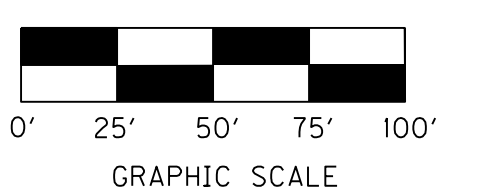
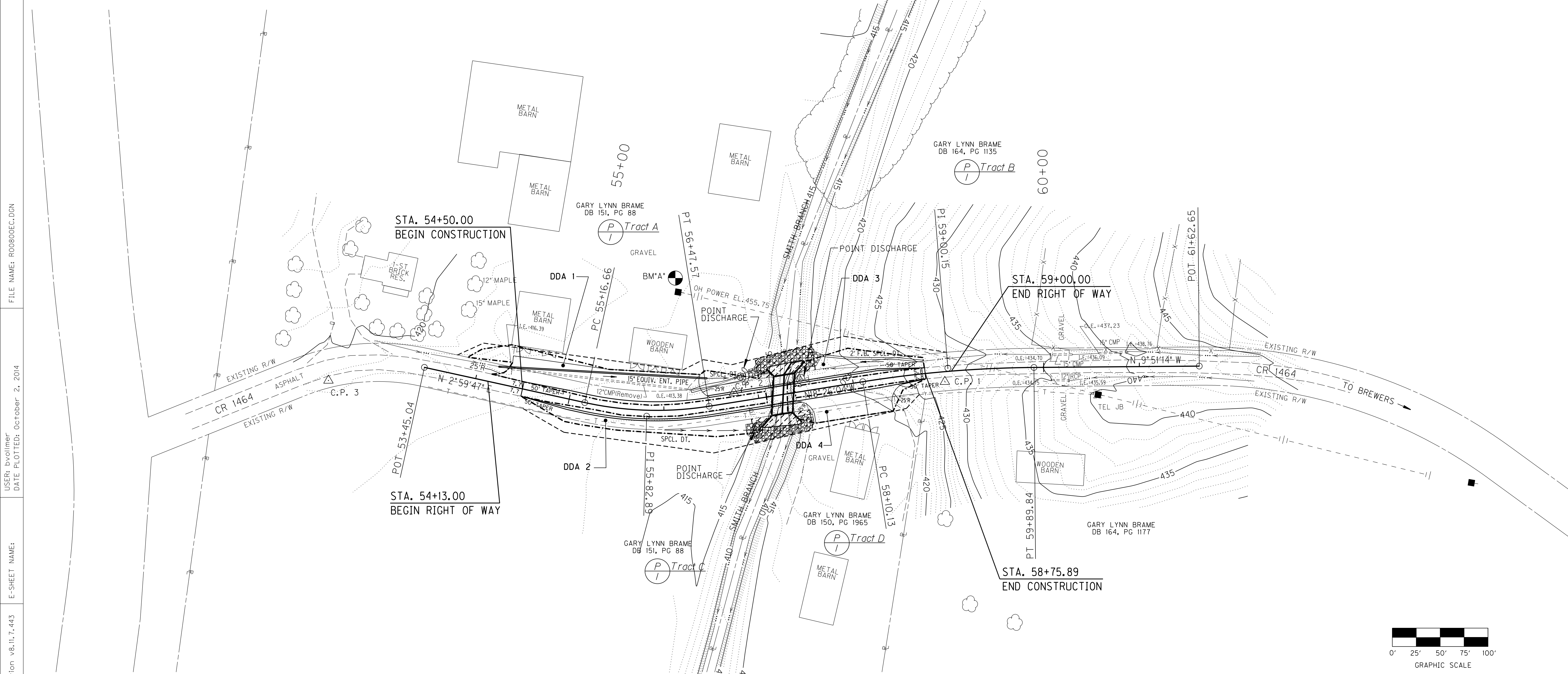
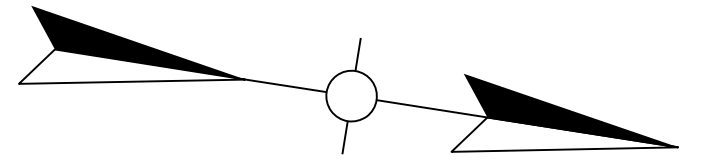
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DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
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DDA 2	0.11	396.00
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DDA 4	0.08	288.00



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 MicroStation v8.11.7.443

COORDINATE SYSTEM

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.

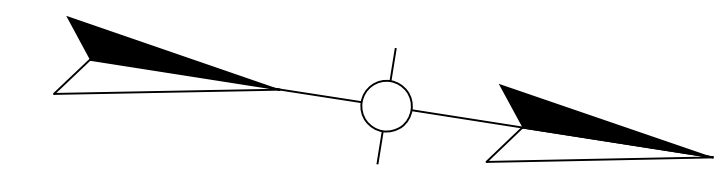
Coordinates are based on State Plane Coordinate System Kentucky Single Zone and in U.S. Survey Feet.

BASIS OF ELEVATIONS

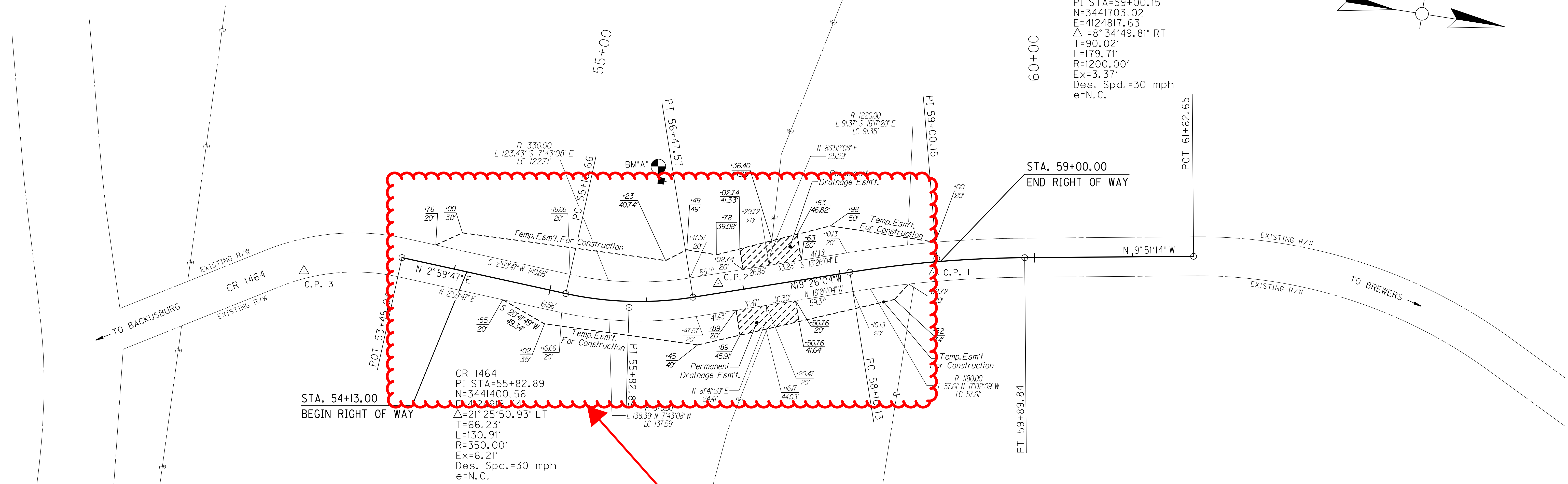
Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid09. A benchmark is a railroad spike in a power pole 122.42' Left of Sta. 56+27.08, with a vertical control mark at Elev. = 418.51.

COUNTY OF	ITEM NO.	SHEET NO.
CALLOWAY	01-1136.00	R9

REVISED 10-9-14

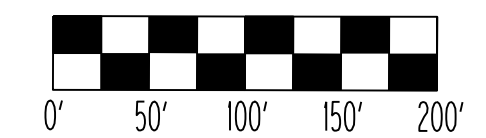


CR 1464
 PI STA=59+00.15
 N=3441703.02
 E=4124817.63
 $\Delta = 8^{\circ} 34' 49.81''$ RT
 T=90.02'
 L=179.71'
 R=1200.00'
 Ex=3.37'
 Des. Spd.=30 mph
 e=N.C.



POINT	DESCRIPTION	State Plane Coordinates			STATION and OFFSET
		NORTH (Y)	EAST (X)	ELEV. (Z)	
B.M. A	Railroad Spike in Power Pole 122.42' left of Sta. 56+27.08	3441411.9280	4124785.2040	418.51	56+27.08 122.42' Left
C.P. 1	IRON PIN W/CAP	3441702.2670	4124832.1080	427.96	58+95.68 10.48' Right
C.P. 2	IRON PIN W/CAP	3441486.5300	4124879.5580	417.37	56+75.19 9.71' Left
C.P. 3	IRON PIN W/CAP	3441066.3150	4124935.9100	418.31	52+40.73 12.48' Right
POT	MAINLINE	3441163.0439	4124906.0101		53+45.04
PC	MAINLINE	3441334.4233	4124914.9816		55+16.66
PI	MAINLINE	3441400.5634	4124918.4436		55+82.89 6.21' Right
PT	MAINLINE	3441463.3955	4124897.5002		56+47.57
PC	MAINLINE	3441617.6128	4124846.0960		58+10.13
PI	MAINLINE	3441703.0165	4124817.6290		59+00.15 3.37' Left
PT	MAINLINE	3441791.7115	4124802.2227		59+89.84
POT	MAINLINE	3441961.9765	4124772.6477		61+62.65

Changed R/W To Temporary Construction Esmt. & Added Permanent Drainage Esmt. Removed Right of Way Monument Points Box.



FILE NAME: R00900CC.DGN
 USER: bvolmer
 DATE PLOTTED: October 2, 2014
 E-SHEET NAME:
 MicroStation v8.11.7.443

COORDINATE SYSTEM

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.

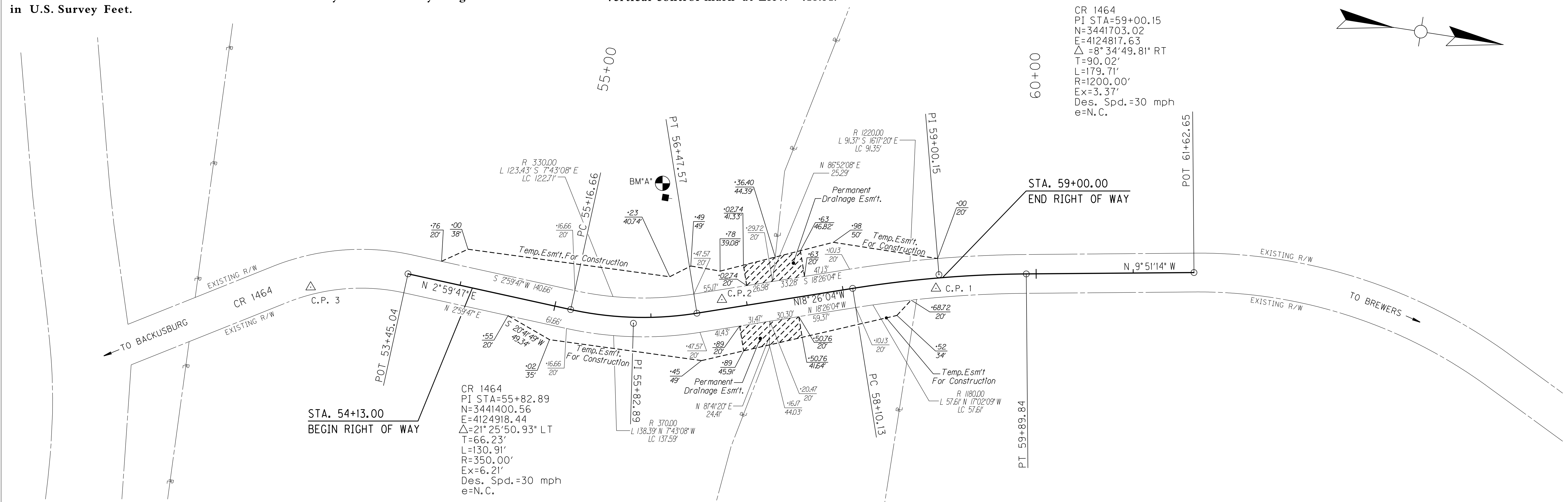
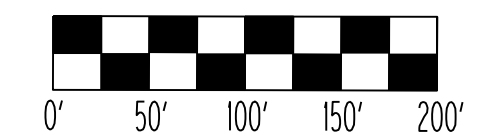
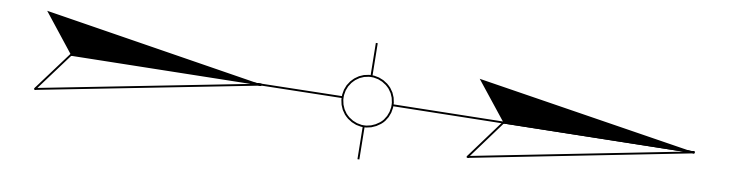
Coordinates are based on State Plane Coordinate System Kentucky Single Zone and in U.S. Survey Feet.

BASIS OF ELEVATIONS

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COUNTY OF	ITEM NO.	SHEET NO.
CALLOWAY	01-1136.00	R9

REVISED 10-9-14



COORDINATE CONTROL POINTS

POINT	DESCRIPTION	State Plane Coordinates			STATION and OFFSET	
		NORTH (Y)	EAST (X)	ELEV. (Z)		
B.M. A	Railroad Spike in Power Pole 122.42' left of Sta. 56+27.08	3441411.9280	4124785.2040	418.51	56+27.08	122.42' Left
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PT	MAINLINE	3441463.3955	4124897.5002		56+47.57	
PC	MAINLINE	3441617.6128	4124846.0960		58+10.13	
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POT	MAINLINE	3441961.9765	4124772.6477		61+62.65	

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USER: bvolmer
DATE PLOTTED: October 2, 2014

E-SHEET NAME:

MicroStation v8.11.7.443

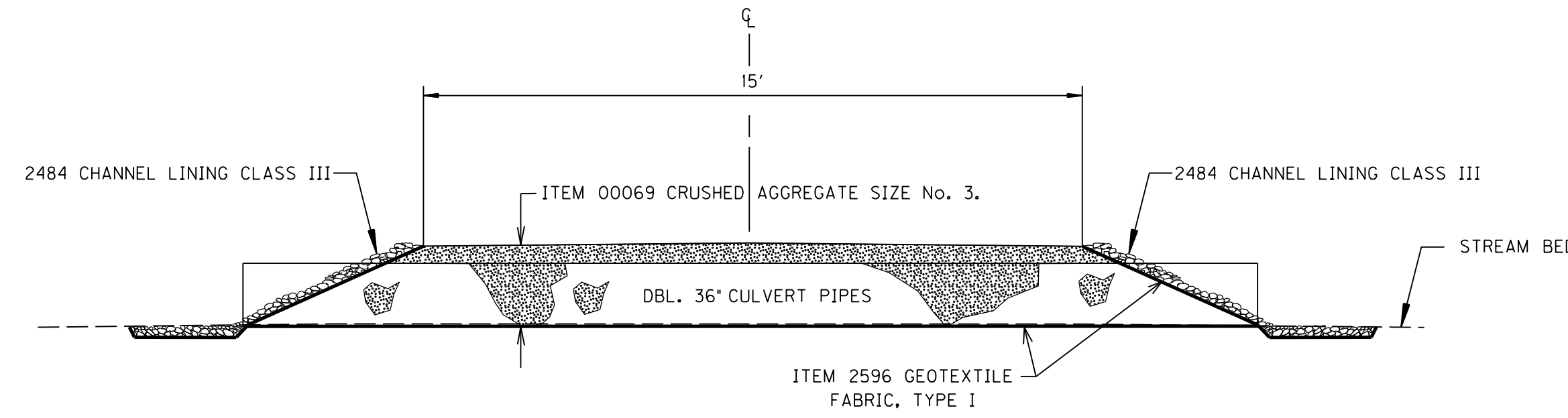
FILE NAME: P:\PROJECTS\2011 PROJECTS\11302 - KYTC CALLOWAY 1-1136\CONTRACT PLAN SET\ROADWAY\PDFS\FINAL SUBMITTAL (8-7-14)\FINAL SUBMITTAL.DWG
 USER: micmg
 DATE PLOTTED: October 2, 2014
 E-SHEET NAME:
 MicroStation v8.11.7.443

TEMPORARY STREAM CROSSING NOTES

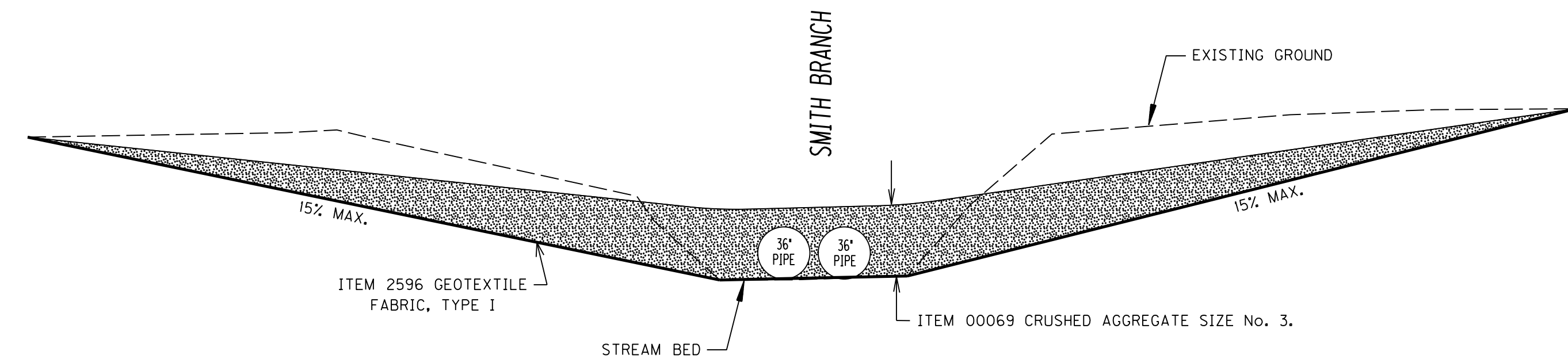
DEPENDING ON THE TIME OF YEAR AND CONSTRUCTION ACTIVITIES, THE ENGINEER MAY DIRECT THE CONTRACTOR TO CONSTRUCT A TEMPORARY STREAM CROSSING. THE CROSSING LOCATION WILL BE DETERMINED BY THE ENGINEER. THIS WORK WILL INCLUDE ALL GRADING, STABILIZATION, AND MATERIALS NEEDED TO CONSTRUCT AND MAINTAIN THE CROSSING. WHEN NO LONGER NEEDED, THE CROSSING SHALL BE REMOVED AND THE CROSSING SITE REGRADED, SHAPED, STABILIZED AND SEEDED AS NEEDED TO RESTORE THE SITE TO ITS ORIGINAL CONDITION. THE WORK IS ESTIMATED TO REQUIRE APPROXIMATELY 400 CU. YDS. OF EXCAVATION, 75 TONS OF CRUSHED AGGREGATE SIZE No. 3, 64 LF OF 36" CULVERT PIPE, 340 TONS OF CHANNEL LINING CLASS III, AND 310 SQ. YDS. OF GEOTEXTILE FABRIC -TYPE 1. UPON REMOVAL OF THE CROSSING, APPROXIMATELY 60 SQ. YDS. OF EROSION CONTROL BLANKET SHALL BE PERMANENTLY PLACED AND ALL OTHER MATERIALS SHALL BE REMOVED FROM THE SITE AND BECOME THE PROPERTY OF THE CONTRACTOR. ALL ITEMS NECESSARY TO CONSTRUCT AND REMOVE THE CROSSING ARE TO BE INCLUDED IN THE LUMP SUM UNIT PRICE BID FOR ITEM No. 21447NC.

COUNTY OF	ITEM NO.	SHEET NO.
CALLOWAY	1-1136.00	R13

REVISED 10-9-14

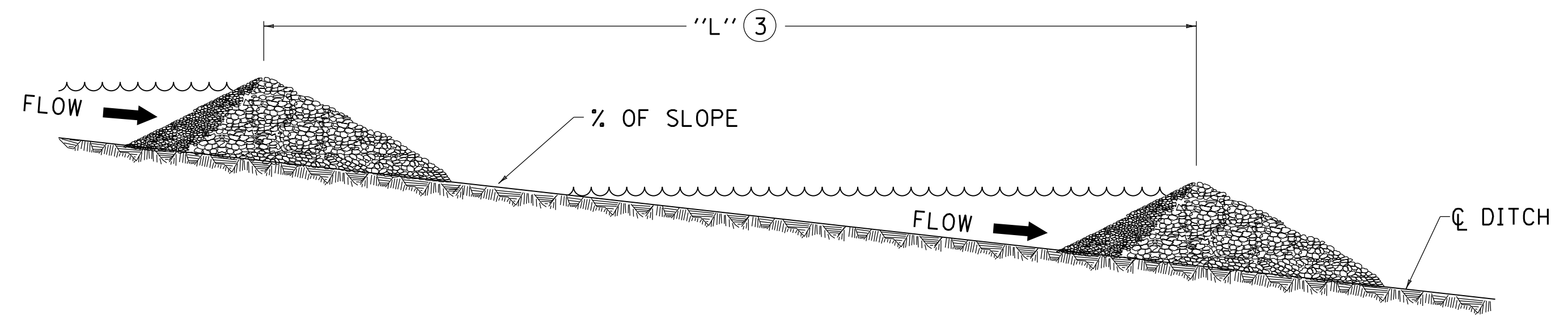
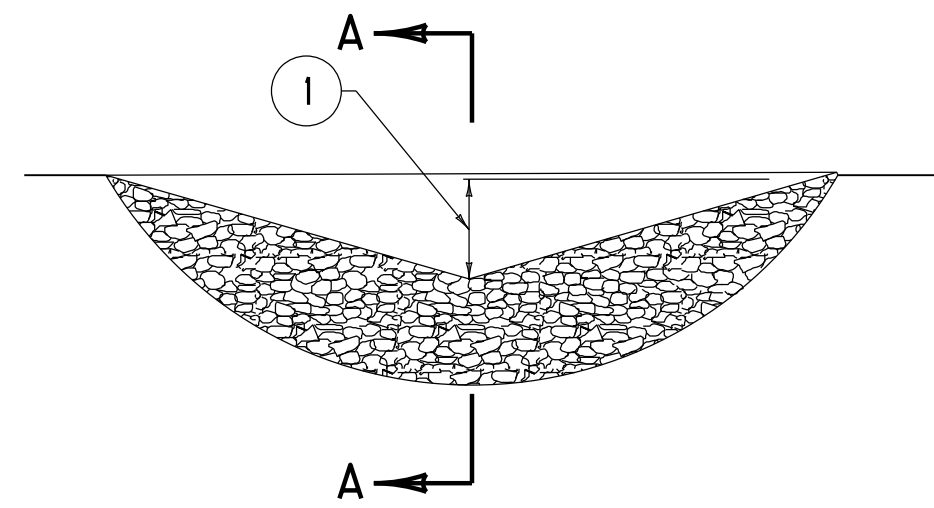
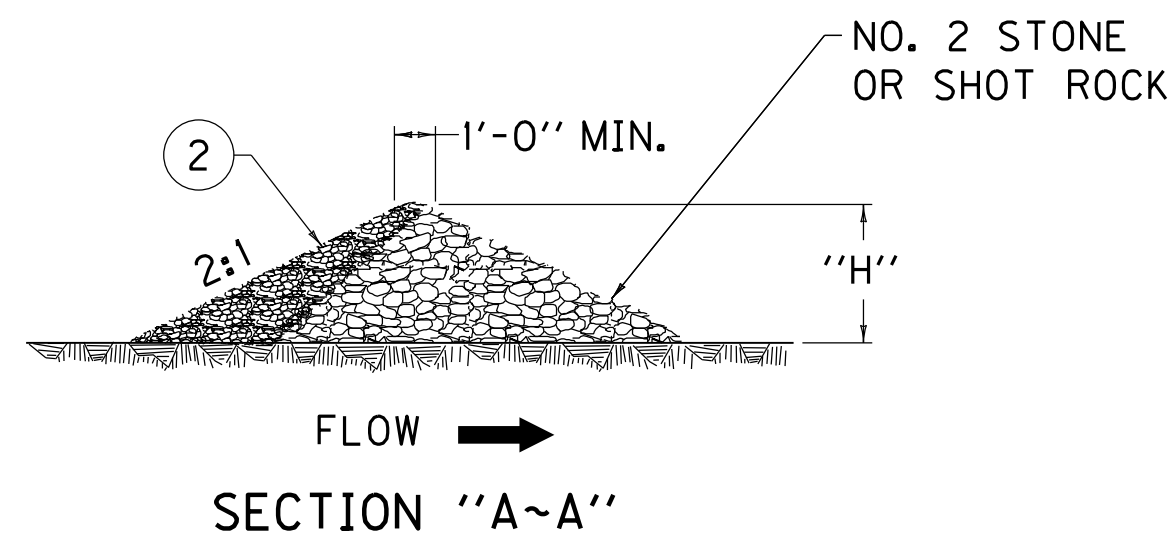


SMITH BRANCH
SECTION SHOWING TEMPORARY STREAM CROSSING



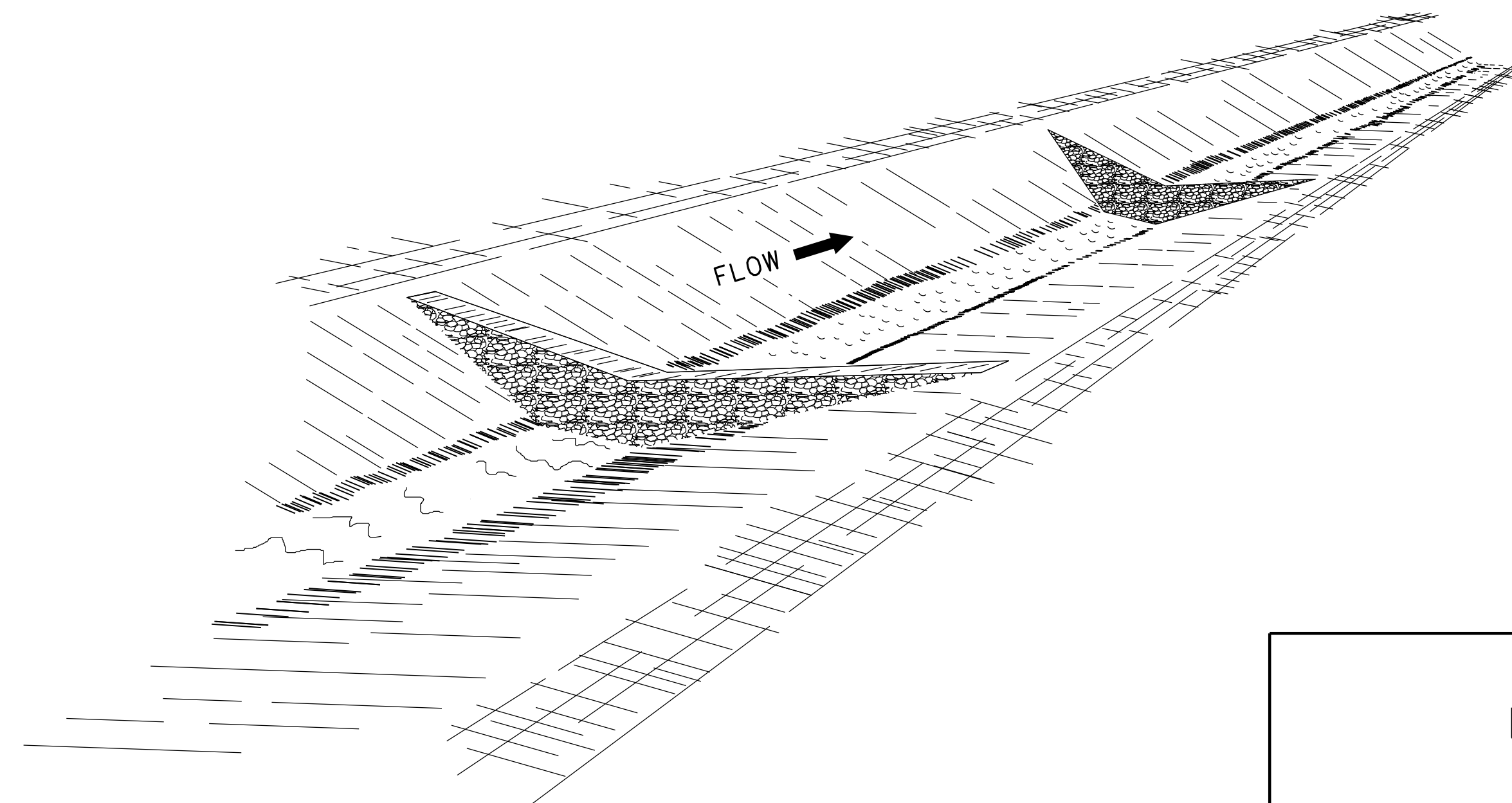
SMITH BRANCH
PROFILE TEMPORARY STREAM CROSSING

Added Temporary Stream Crossing Detail



~NOTES~

- BID ITEM AND UNIT TO BID:
- | CODE | PAY ITEM | PAY UNIT |
|------|------------------------|----------|
| 2704 | SILT TRAP TYPE B | EACH |
| 2707 | CLEAN SILT TRAP TYPE B | EACH |
- ① MIDDLE OF SILT TRAP SHALL BE A MINIMUM OF 1'-0" LOWER THAN SIDES SO FLOW WILL NOT BYPASS TRAP OR ERODE BANKS.
 - ② UPSTREAM FACE OF SILT TRAP SHALL BE A FOUR INCH MIN. LAYER OF CRUSHED AGGREGATE HAVING 100% PASSING A 3" SIEVE AND NO MORE THAN 5% PASSING A NO. 8 SIEVE (SEE SECTION "A-A").
 - ③ "L" = $\frac{H}{\text{SLOPE OF DITCH}}$
 - ④ SPACE SILT TRAPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 5. SILT TRAP TYPE B SHALL BE USED ON ALL SLOPES GREATER THAN 2%.
 6. SILT TRAP TYPE B MAY BE USED ON ALL SLOPES LESS THAN 2%.



DETAILS

N. T. S.

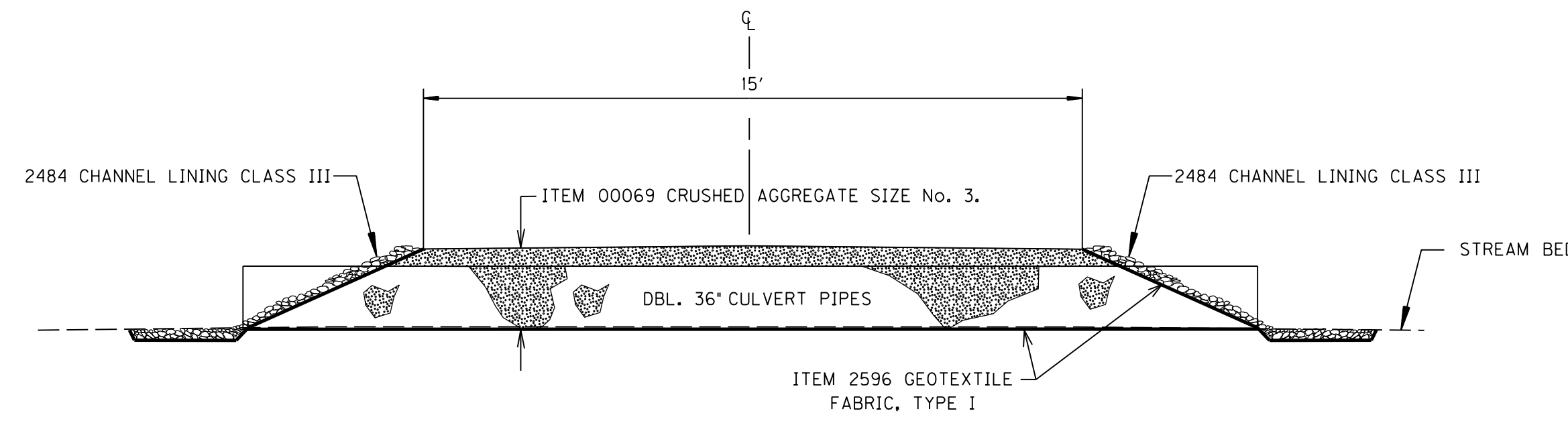
FILE NAME: P:\PROJECTS\2011 PROJECTS\11302 - KYTC CALLOWAY 1-1136\CONTRACT PLAN SET\ROADWAY\PDFS\FINAL SUBMITTAL (8-7-14)\FINAL SUBMITTAL.DGN
 USER: mic96
 DATE PLOTTED: October 2, 2014
 E-SHEET NAME:
 MicroStation v8.11.7.443

TEMPORARY STREAM CROSSING NOTES

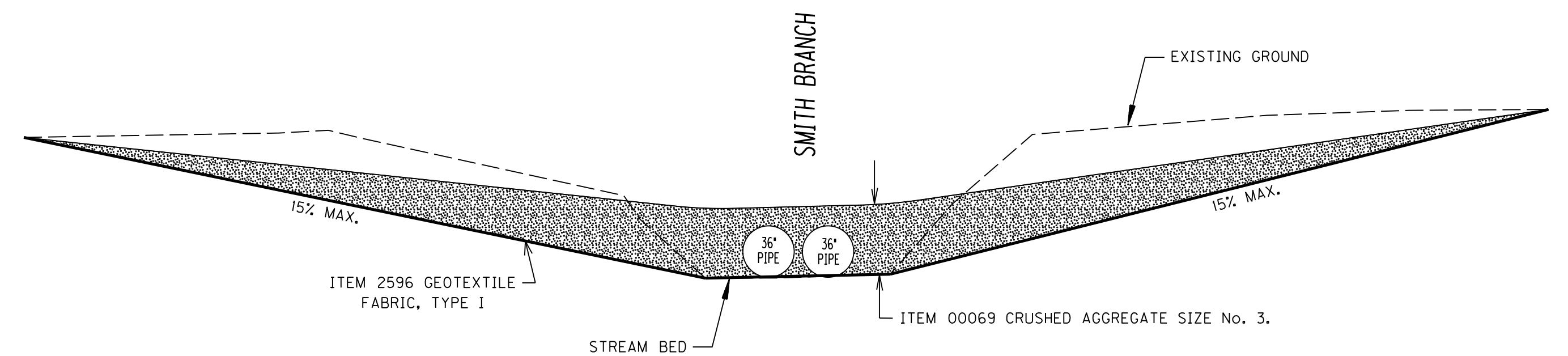
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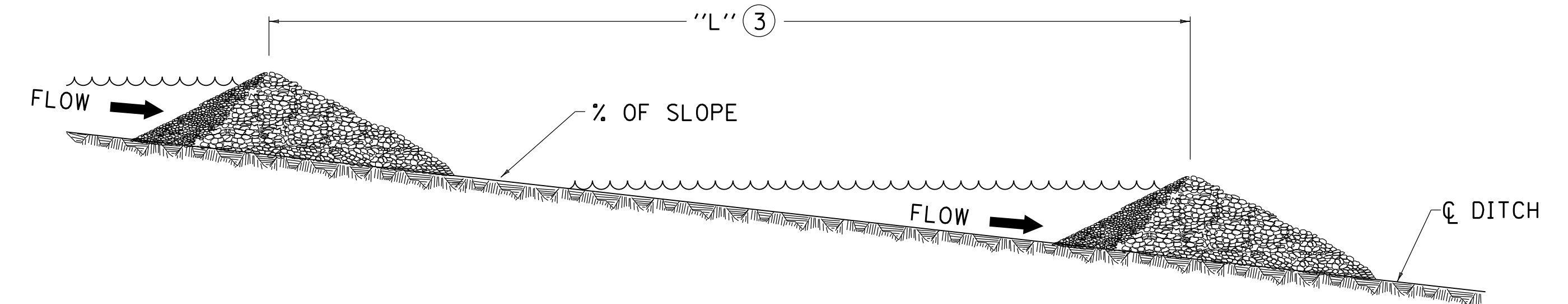
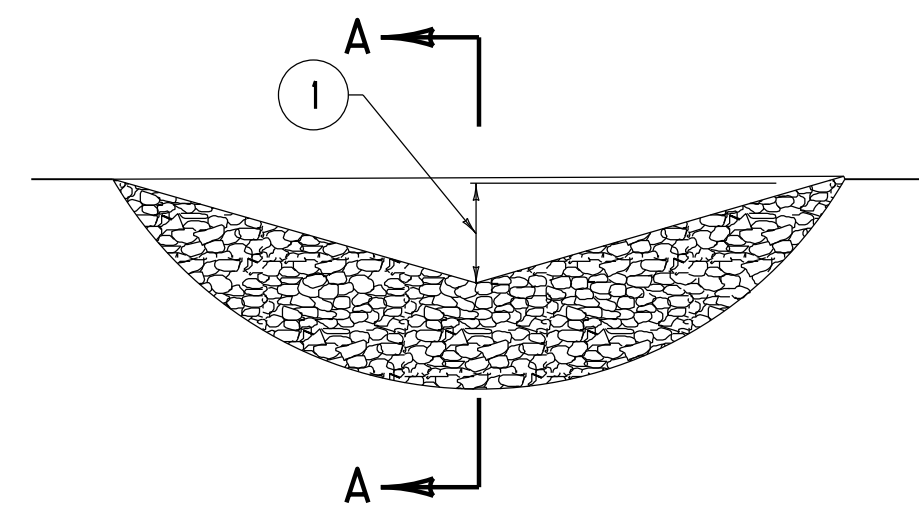
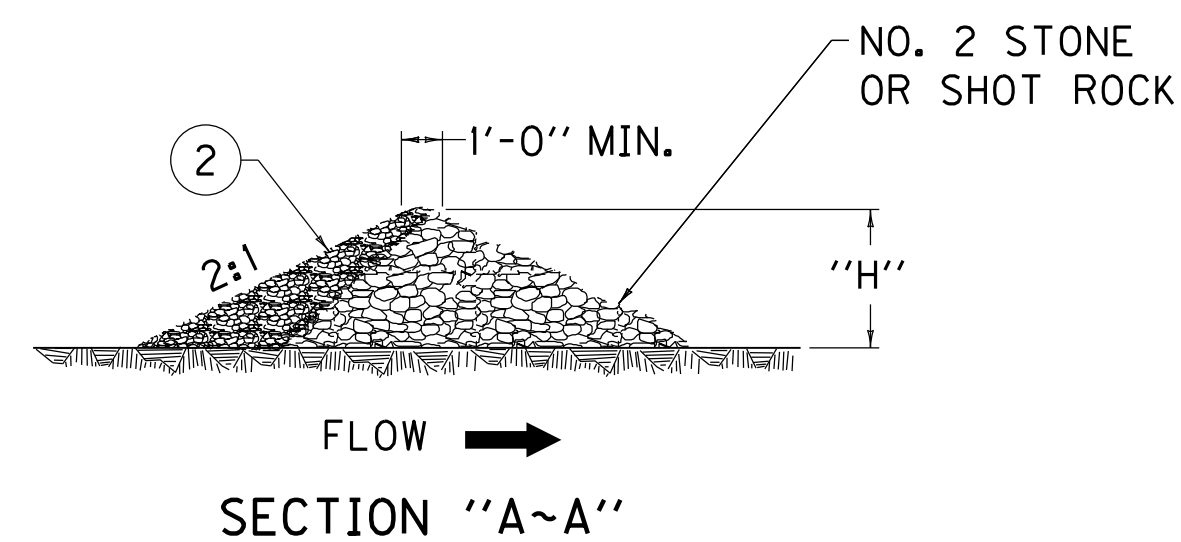
REVISED 10-9-14



SMITH BRANCH
SECTION SHOWING TEMPORARY STREAM CROSSING

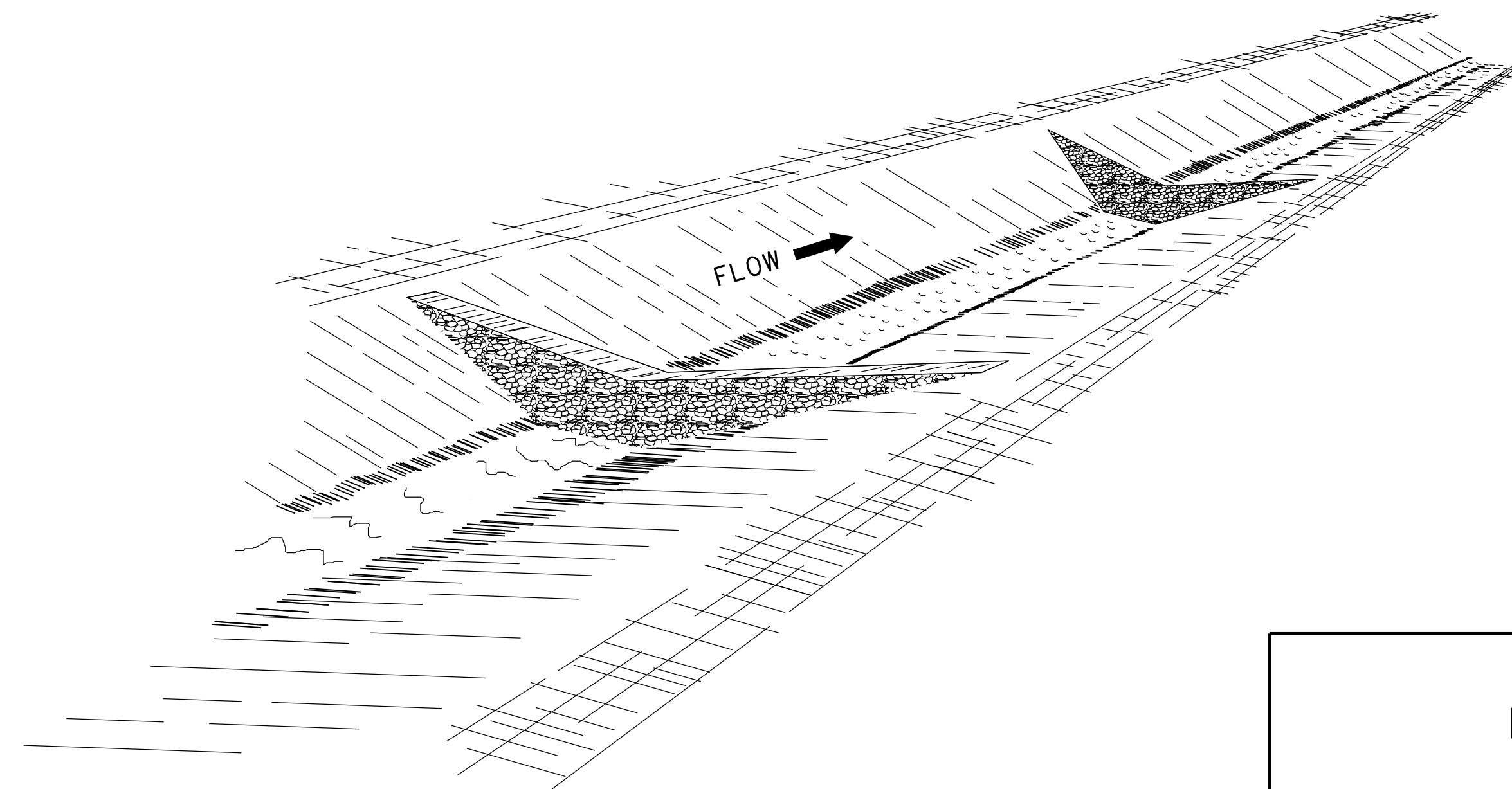


SMITH BRANCH
PROFILE TEMPORARY STREAM CROSSING



~NOTES~

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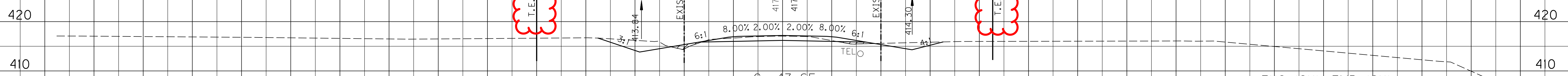
DETAILS

N. T. S.

REVISED 10-9-14

STA. 56+75
END SPCL. DT. @ -0.50%
EL. 413.72

EXC (CY) EMB (CY)
73 5



EXC (CY) EMB (CY)
79 5

EXC (CY) EMB (CY)
81 0

EXC (CY) EMB (CY)
96 0

EXC (CY) EMB (CY)
65 0

STA. 55+50
BEGIN SPCL. DT. @ -0.62%
EL. 414.92

Changed from R/W To Temp. Esmt.
For Construction.

UTILITY DEPTHS ARE ESTIMATED

BEGIN CONSTRUCTION STA. 54+50.00

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

100 110 120 130 140 150

STA. 54+50 TO STA. 56+50

FILE NAME: X00200XS.DGN

USER: m1one
DATE PLOTTED: October 2, 2014

E-SHEET NAME:

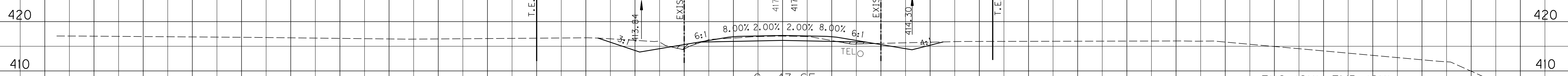
Power InRoads v8.11.9.578

STA 54+20
BEGIN SPCL. DT. @ -0.5%
EL. 414.99

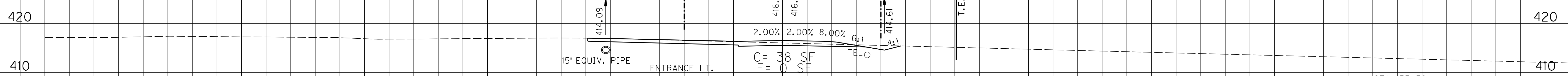
REVISED 10-9-14

STA. 56+75
END SPCL. DT. @ -0.50%
EL. 413.72

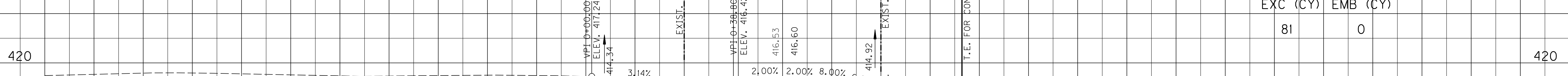
EXC (CY) EMB (CY)
73 5



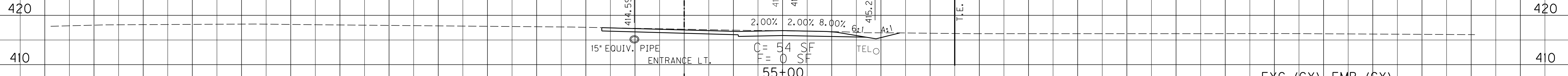
EXC (CY) EMB (CY)
79 5



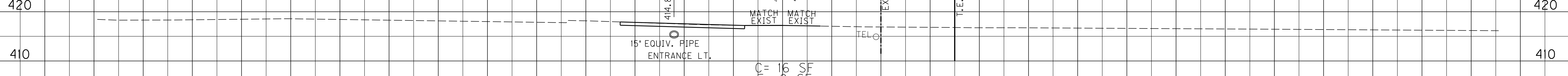
EXC (CY) EMB (CY)
81 0



EXC (CY) EMB (CY)
96 0



EXC (CY) EMB (CY)
65 0



UTILITY DEPTHS ARE ESTIMATED

STA 54+20
BEGIN SPCL. DT. @ -0.5%
EL. 414.99

BEGIN CONSTRUCTION STA. 54+50.00

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

100 110 120 130 140 150

STA. 54+50 TO STA. 56+50

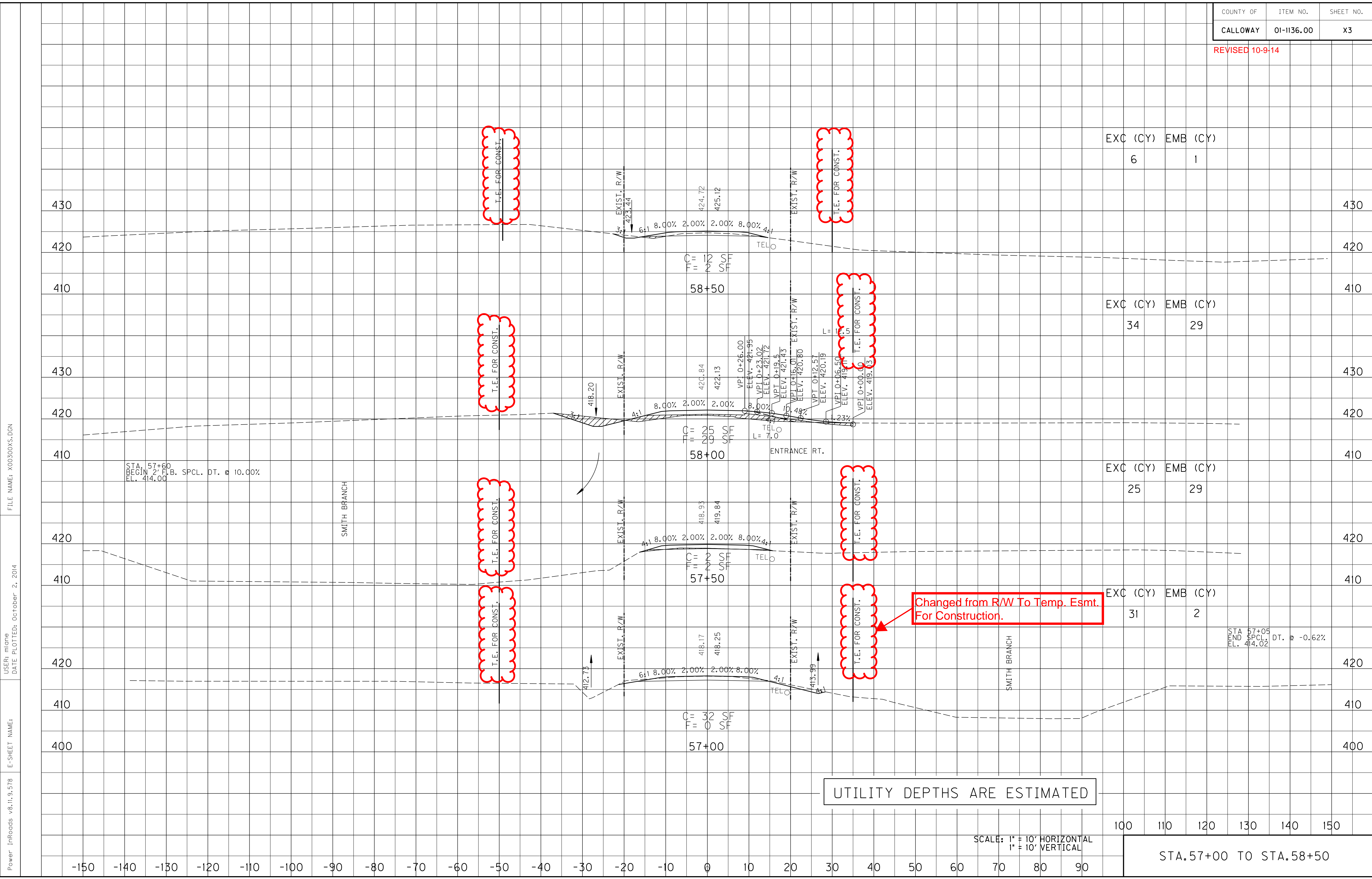
FILE NAME: X00200XS.DGN

USER: mrcnc
DATE PLOTTED: October 2, 2014

E-SHEET NAME:

Power InRoads v8.11.9.578

REVISED 10-9-14



EXC (CY)	EMB (CY)
6	1

EXC (CY)	EMB (CY)
34	29

EXC (CY)	EMB (CY)
25	29

EXC (CY)	EMB (CY)
31	2

STA. 57+60
BEGIN 2' F.L.B. SPCL. DT. @ 10.00%
EL. 414.00

STA 57+05
END SPCL. DT. @ -0.62%
EL. 414.02

UTILITY DEPTHS ARE ESTIMATED

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

100 110 120 130 140 150

STA. 57+00 TO STA. 58+50

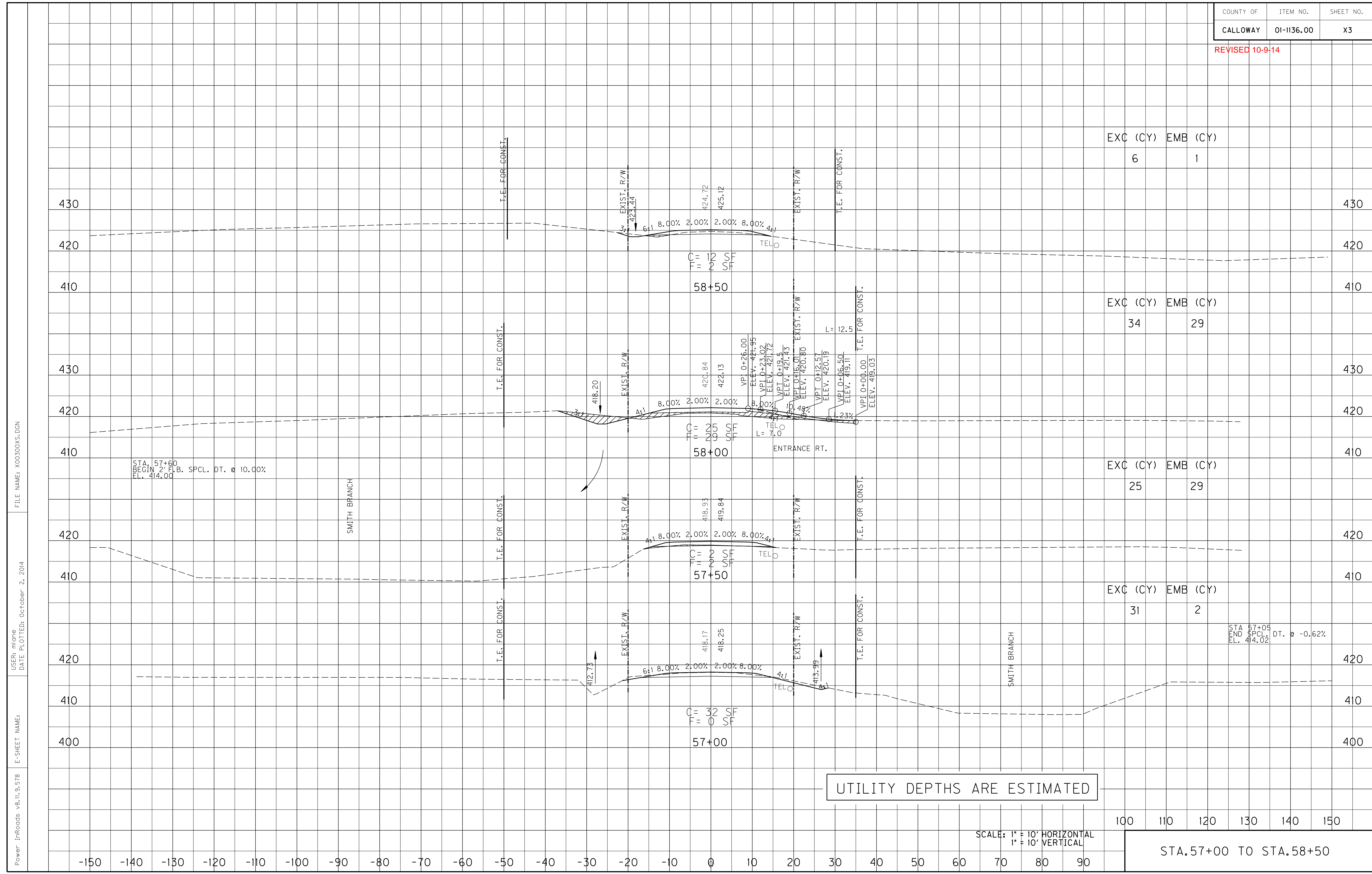
FILE NAME: X00300XS.DGN

USER: mione
DATE PLOTTED: October 2, 2014

E-SHEET NAME:

Power InRoads v8.11.9.578

REVISED 10-9-14



UTILITY DEPTHS ARE ESTIMATED

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

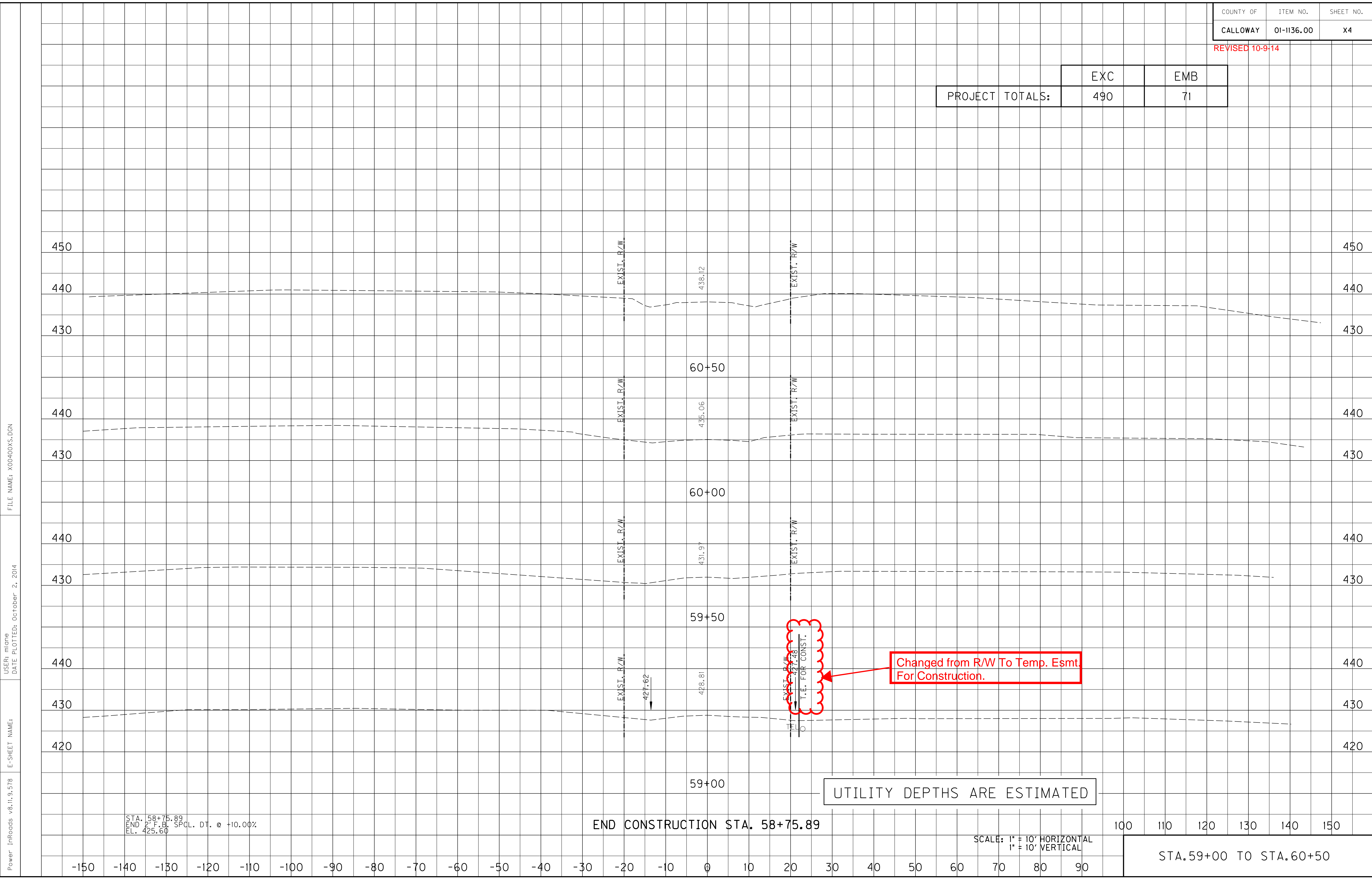
100 110 120 130 140 150

STA. 57+00 TO STA. 58+50

Power InRoads v8.11.9.578
E-SHEET NAME:
DATE PLOTTED: October 2, 2014
USER: mrc
FILE NAME: X00300XS.DGN

REVISED 10-9-14

PROJECT TOTALS:	EXC	EMB
	490	71



Power InRoads v8.11.9.578
 E-SHEET NAME:
 USER: m10nc
 DATE PLOTTED: October 2, 2014
 FILE NAME: X00400XS.DGN

STA. 58+75.89
 END 2% F.B. SPCL. DT. @ +10.00%
 EL. 425.60

END CONSTRUCTION STA. 58+75.89

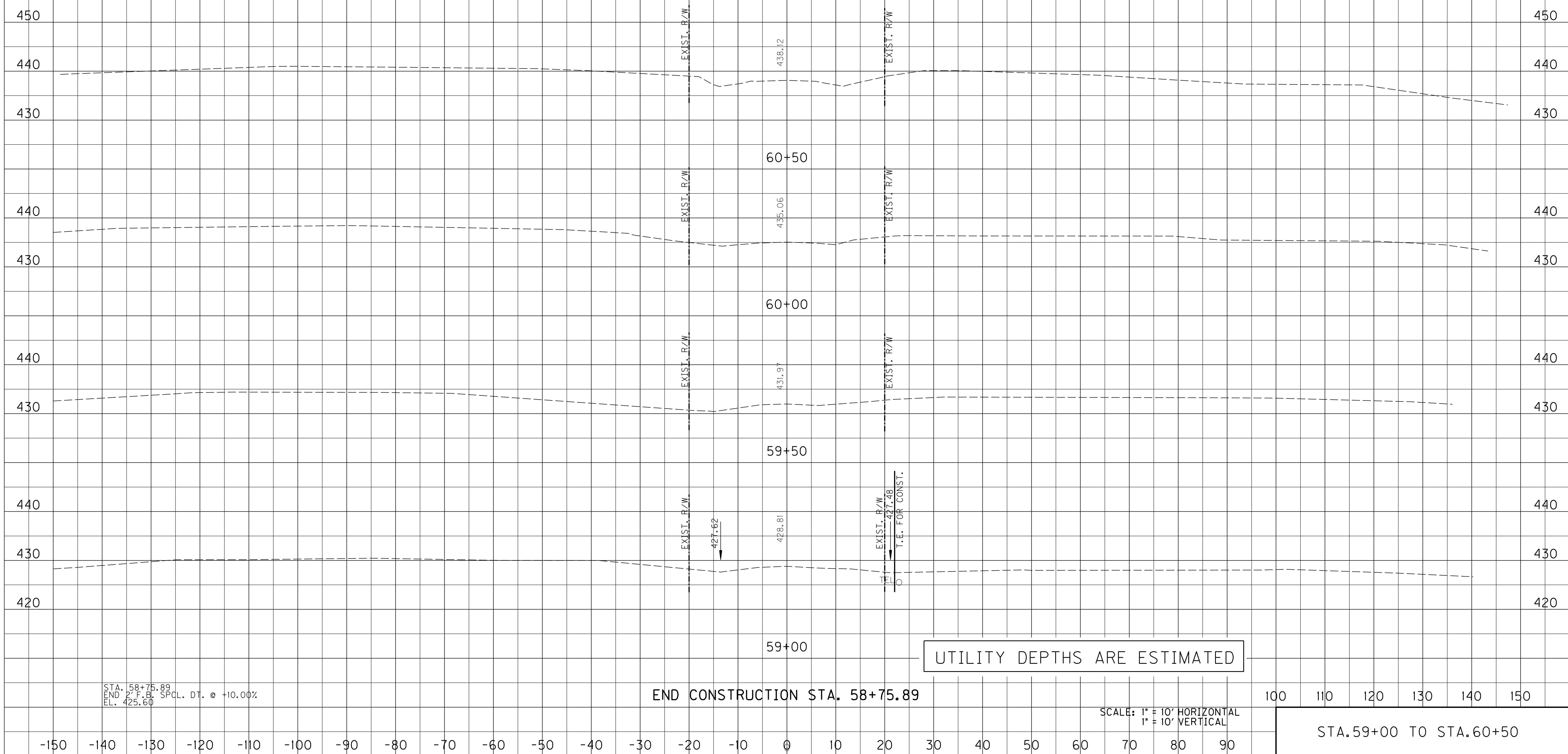
SCALE: 1" = 10' HORIZONTAL
 1" = 10' VERTICAL

100 110 120 130 140 150

STA. 59+00 TO STA. 60+50

REVISED 10-9-14

PROJECT TOTALS:	EXC	EMB
	490	71



STA. 58+75.89
 END 2% F.B. SPCL. DT. @ +10.00%
 EL. 425.60

END CONSTRUCTION STA. 58+75.89

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

STA. 59+00 TO STA. 60+50

Power InRoads v8.11.9.578
 E-SHEET NAME:
 DATE PLOTTED: October 2, 2014
 USER: m10nc
 FILE NAME: X00400XS.DGN

PROPOSAL BID ITEMS

141051

Page 1 of 2

Report Date 0/15/14

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	494.00	TON		\$	
0020	00078		CRUSHED AGGREGATE SIZE NO 2	1.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	1.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	2.00	TON		\$	
0050	00221		CL2 ASPH BASE 0.75D PG64-22	451.00	TON		\$	
0060	00301		CL2 ASPH SURF 0.38D PG64-22	123.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0070	00450		ENTRANCE PIPE-15 IN EQUIV	218.00	LF		\$	
0080	01000		PERFORATED PIPE-4 IN	20.00	LF		\$	
0090	01010		NON-PERFORATED PIPE-4 IN	8.00	LF		\$	
0100	01032		PERF PIPE HEADWALL TY 4-4 IN	1.00	EACH		\$	
0110	02014		BARRICADE-TYPE III	4.00	EACH		\$	
0120	02200		ROADWAY EXCAVATION	490.00	CUYD		\$	
0130	02242		WATER	1.00	MGAL		\$	
0140	21447NC		TEMPORARY STREAM CROSSING REVISED: 10-15-14	1.00	LS		\$	
0160	02483		CHANNEL LINING CLASS II	112.00	TON		\$	
0170	02484		CHANNEL LINING CLASS III	222.00	TON		\$	
0180	02545		CLEARING AND GRUBBING 0.47 ACRES	1.00	LS		\$	
0190	02562		TEMPORARY SIGNS	112.00	SQFT		\$	
0200	02585		EDGE KEY	27.00	LF		\$	
0210	02596		FABRIC-GEOTEXTILE TYPE I	402.00	SQYD		\$	
0220	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0230	02701		TEMP SILT FENCE	326.00	LF		\$	
0240	02703		SILT TRAP TYPE A	4.00	EACH		\$	
0250	02704		SILT TRAP TYPE B	4.00	EACH		\$	
0260	02706		CLEAN SILT TRAP TYPE A	12.00	EACH		\$	
0270	02707		CLEAN SILT TRAP TYPE B	12.00	EACH		\$	
0280	02709		CLEAN TEMP SILT FENCE	326.00	LF		\$	
0290	02726		STAKING	1.00	LS		\$	
0300	02731		REMOVE STRUCTURE	1.00	LS		\$	
0310	05950		EROSION CONTROL BLANKET	1,089.00	SQYD		\$	
0320	05952		TEMP MULCH	2,274.00	SQYD		\$	
0330	05953		TEMP SEEDING AND PROTECTION	2,027.00	SQYD		\$	
0340	05963		INITIAL FERTILIZER	1.00	TON		\$	
0350	05964		20-10-10 FERTILIZER	1.00	TON		\$	
0360	05985		SEEDING AND PROTECTION	2,252.00	SQYD		\$	
0370	05992		AGRICULTURAL LIMESTONE	2.00	TON		\$	

Section: 0003 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
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PROPOSAL BID ITEMS

141051

Page 2 of 2

Report Date 0/15/14

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0380	08003		FOUNDATION PREPARATION	1.00	LS		\$	
0390	08100		CONCRETE-CLASS A	142.30	CUYD		\$	
0400	08150		STEEL REINFORCEMENT	15,090.00	LB		\$	
0410	08410		LOW FLOW DIVERSION CURB	1.00	LS		\$	

Section: 0004 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0420	02569		DEMOBILIZATION	1.00	LS		\$	