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

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

November 29, 2012

CALL NO. 301
CONTRACT ID NO. 121366
ADDENDUM # 2

Subject: Butler County, FD04 SPP 016 0231 008-011
Letting December 14, 2012

(1)Revised – Plan Sheets – R2f, R2g, R23, R24, R25, R26, R29, R30, R31, R32, R80, R81, R83, R84, R130, R131, R132, R133, R134, R135, R141, R142, & R143
(2)Revised – Bid Items – Pages 92-95 of 95

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,

Ryan Griffith

Ryan Griffith
Director
Division of Construction Procurement

RG:ks
Enclosures

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R2f

PIPE DRAINAGE SUMMARY

SHEET NO.		SKEW	PH	FILL HEIGHT	STORM SEWER PIPE-12 INCH	STORM SEWER PIPE-15 INCH	STORM SEWER PIPE-18 INCH	STORM SEWER PIPE-24 INCH	STORM SEWER PIPE-30 INCH	STORM SEWER PIPE-36 INCH	STORM SEWER PIPE-42 INCH	CULVERT PIPE 48" EQUIV	BORE AND JACK 18" PIPE	BORE AND JACK 24" PIPE	BORE AND JACK 30" PIPE	MANHOLE TYPE B	MANHOLE TYPE A	JUNCTION BOX	JUNCTION BOX-TYPE B	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	CAP EXISTING DROP BOX INLET	ENTRANCE PIPE-15 INCH	8" PVC	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING CLASS II	CHANNEL LINING CLASS III	PERFORATED PIPE-4 INCH	NON-PERFORATED PIPE-4 INCH	PERF PIPE HEADWALL TY 1-4 INCH	REMARKS
ITEM CODE					520	521	522	524	526	528	529	499	23126EN	21799EN	21800EN	1761	1756	1650	4811	1456	1490	1496	1544	1550	1577	20098NC	440	23673EC	8150	8100	20597EC	2483	2484	1000	1010	1020	
UNIT TO BID				FT	L I N E A R F E E T											EACH								L.F.	EACH			L.F.		LBS	C.Y.	C.Y.	TON		L.F.		EACH	
R16	LT. 92+88.5		M	2.5'		12													1																		Junction Box Type B (2) #2 Tie to Exist. 15" Pipe
R16	93+00		M	-																														32	20	1	Subgrade Drainage
R16	LT. 93+50		M	4.5'			38											1				1														Junction Box #11 D.B.I. Type I (H=3.5')
R16	LT. 93+75		M	4.5'			32													1														4			C.B.I. Type A (6,2)(H=4.75')
R16	LT. 94+09-94+61		M	2.9'	7		184																	52													Junction Box #3 D.B.I. Type 12A (H=4.5')
R18	LT. 96+00		M	3.7'		9	48													1	1													4			D.B.I. Type I w/o Apron(H=4.0') C.B.I Type A (6,2)(H=4.5')
R18	RT. 96+27		M	3.0'																1														4			C.B.I. Type A (6,2)(H=4.0')
R18	RT. 99+38		M	3.5'		319														1														4			C.B.I. Type A (4,2)(H=4.0')
R18	LT. 99+90		M	5.0'		72															1																D.B.I. Type I w/o Apron(H=4.0')
R20	LT. 100+60		M	4.0'		19	45													1				1										4			C.B.I. Type A (6,2)(H=4.0') D.B.I. Type II (H=4')
R20	LT. 101+07		M	4.0'			63											1											20								Extend 8" PVC & Tie to Exist 8" PVC Junction Box #3
R20	LT. 101+39-101+75		M	2.8'	9		85											1						36													Sta. 101+39-101+75 D.B.I. Type 12A (H=4.0') Junction Box #3
R20	LT. 102+60		M	3.5'				197												1														4			C.B.I. Type A (16,2)(H=4.75')
R20	RT. 102+60		M	3.5'			197													1														4			C.B.I. Type A (6,2)(H=4.5')
R20	LT. 104+60		M	3.9'				115												1														4			C.B.I. Type A (16,2)(H=5.0')
R20	RT. 104+60		M	3.9'			115													1														4			C.B.I. Type A (6,2)(H=5.0')
R22	LT. 105+28		M	4'																							69										Entrance Lt Sta. 105+28
R22	LT. 105+78		M	4.2'				47												1														4			C.B.I. Type A (16,2)(H=6.0')
R22	RT. 105+78		M	4.2'			47													1														4			C.B.I. Type A (6,2)(H=6.0')
R22	LT. 106+28		M	6.4'			47	40												1														4			C.B.I. Type A (16,6)(H=6.5')
R22	RT. 106+28		M	6.4'			47	20												1										8	1.35	21		36	4			C.B.I. Type A (15,6,)(H=7.5') & Sloped & Flared Hdwl w/Class III Outlet
R22	106+50		M	-																														40	16	1	Subgrade Drainage
R22	LT. 106+78		M	5.2'		119														1														4			C.B.I. Type A (6,2)(H=6.0')
R22	RT. 106+78		M	5.2'		119														1														4			C.B.I. Type A (6,2)(H=6.0')
R22	LT. 108+00		M	-																1														4			C.B.I. Type A (4,2)(H=4.5')
R22	RT. 108+00		M	-																1														4			C.B.I. Type A (4,2)(H=4.5')
R24	LT. 110+31		M	5.5'																							36										Entrance Lt Sta. 110+31
R24	LT. 111+27		M	3.5'		46														1														4			C.B.I. Type A (4,2)(H=4.0')
R24	RT. 111+50		M	3.5'			169													1														4			C.B.I. Type A (6,2)(H=4.5')
R24	LT. 111+67		M	3.5'																							36										Entrance Pipe Sta. 111+67
R24	RT. 113+26		M	3.9'			40													1														4			C.B.I. Type A (6,2)(H=5.0')
R24	RT. 113+55		M	4.0'							25																			216	2.68	22		36				Sloped & Flared Hdwl w/Class III Outlet
R24	LT. 113+70		M	4.0'					80	49								1																			Manhole Type A (H=7.85')
R24	RT. 113+70		M	4.0'				50												1																		C.B.I. Type A (5I,6)(H=6.0')
R24	114+00		M	-																														40	20	1	Subgrade Drainage
R24	RT. 114+26		M	3.4'				118												1														4			C.B.I. Type A (16,2)(H=5.0')
R24	LT. 114+50		M	3.3'					194									1																			Manhole Type A (H=7.75')
R26	RT. 115+50		M	3.6'			202													1														4			C.B.I. Type A (6,2)(H=4.0')
R26	LT. 116+40		M	3.6'			14		98									1			1																Junction Box #11 D.B.I. Type I (H=4.0')
R26	LT. 117+36-117+62		M	4.2'	8				85									1						26													D.B.I. Type 12A (H=5.0')& Junction Box #11
R26	RT. 117+60		M	3.5'			173													1														4			C.B.I. Type A (6,2)(H=4.5')
R26	LT. 118+24-118+50		M	3.8'	8				52									1						26													D.B.I. & Type 12A (H=6.0')& Junction Box #11
R26	LT. 118+80		M	3.6'					109											1														4			C.B.I. Type A (24,2)(H=8.70')
R26	RT. 119+36		M	3.5'			181													1														4			C.B.I. Type A (6,2)(H=4.5')
R26	LT. 119+92		M	2.8'					195											1														4			C.B.I. Type A (24,2)(H=5.0')
R28	RT. 121+20		M	3.0'			199													1														4			C.B.I. Type A (6,2)(H=4.5')
R28	LT. 121+90		M	4.6'			72		14									1												141	1.68	12		22				Junction Box #14 - Sloped & Flared Hdwl w/Class III Intlet
R28	LT. 122+60-13+10		M	5.3'	10	229												1						50													D.B.I. Type 12A (H=5.0') Junction Box #3
R28	RT. 123+25		M	4.4			103													1														4			C.B.I. Type A (6,2)(H=5.5')
R28	RT. 124+34		M	4.4'			110													1														4			C.B.I. Type A (6,2)(H=4.5')
R28	LT. 124+85		M	4.4'																	1																D.B.I. Type I (H=6.0')
SHEET TOTAL					42	944	2211	587	827	49	25	0	0	0	0	0	2	9	1	30	4	1	1	190	0		141	20	365	5.71	55	0	94	228	56	3	

PIPE SUMMARY SHEET

PIPE DRAINAGE SUMMARY

1 REVISED 11-27-12

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R2f

SHEET NO.		SKEW	PH	FILL HEIGHT	STORM SEWER PIPE-12 INCH	STORM SEWER PIPE-15 INCH	STORM SEWER PIPE-18 INCH	STORM SEWER PIPE-24 INCH	STORM SEWER PIPE-30 INCH	STORM SEWER PIPE-36 INCH	STORM SEWER PIPE-42 INCH	CULVERT PIPE 48" EQUIV	BORE AND JACK 18" PIPE	BORE AND JACK 24" PIPE	BORE AND JACK 30" PIPE	MANHOLE TYPE B	MANHOLE TYPE A	JUNCTION BOX	JUNCTION BOX-TYPE B	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	CAP EXISTING DROP BOX INLET	ENTRANCE PIPE-15 INCH	8" PVC	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING CLASS II	CHANNEL LINING CLASS III	PERFORATED PIPE-4 INCH	NON-PERFORATED PIPE-4 INCH	PERF PIPE HEADWALL TY 1-4 INCH	REMARKS
ITEM CODE					520	521	522	524	526	528	529	499	23126EN	21799EN	21800EN	1761	1756	1650	4811	1456	1490	1496	1544	1550	1577	20098NC	440	23673EC	8150	8100	20597EC	2483	2484	1000	1010	1020	
UNIT TO BID				FT	L I N E A R F E E T											EACH								L.F.	EACH			L.F.		LBS	C.Y.	C.Y.	TON		L.F.		EACH	
R16	LT. 92+88.5		M	2.5'		12													1																		Junction Box Type B (2) #2 Tie to Exist. 15" Pipe
R16	93+00		M	-																														32	20	1	Subgrade Drainage
R16	LT. 93+50		M	4.5'			38											1				1														Junction Box #11 D.B.I. Type I (H=3.5')
R16	LT. 93+75		M	4.5'			32													1														4			C.B.I. Type A (6,2)(H=4.75')
R16	LT. 94+09-94+61		M	2.9'	7		184																	52													Junction Box #3 D.B.I. Type 12A (H=4.5')
R18	LT. 96+00		M	3.7'		9	48													1	1													4			D.B.I. Type I w/o Apron(H=4.0') C.B.I Type A (6,2)(H=4.5')
R18	RT. 96+27		M	3.0'																1														4			C.B.I. Type A (6,2)(H=4.0')
R18	RT. 99+38		M	3.5'		319														1														4			C.B.I. Type A (4,2)(H=4.0')
R18	LT. 99+90		M	5.0'		72															1																D.B.I. Type I w/o Apron(H=4.0')
R20	LT. 100+60		M	4.0'		19	45													1				1											4			C.B.I. Type A (6,2)(H=4.0') D.B.I. Type II (H=4')
R20	LT. 101+07		M	4.0'			63											1											20									Extend 8" PVC & Tie to Exist 8" PVC Junction Box #3
R20	LT. 101+39-101+75		M	2.8'	9		85											1						36													Sta. 101+39-101+75 D.B.I. Type 12A (H=4.0') Junction Box #3
R20	LT. 102+60		M	3.5'				197												1														4			C.B.I. Type A (16,2)(H=4.75')
R20	RT. 102+60		M	3.5'			197													1														4			C.B.I. Type A (6,2)(H=4.5')
R20	LT. 104+60		M	3.9'				115												1														4			C.B.I. Type A (16,2)(H=5.0')
R20	RT. 104+60		M	3.9'			115													1														4			C.B.I. Type A (6,2)(H=5.0')
R22	LT. 105+28		M	4'																							69										Entrance Lt Sta. 105+28
R22	LT. 105+78		M	4.2'				47												1														4			C.B.I. Type A (16,2)(H=6.0')
R22	RT. 105+78		M	4.2'			47													1														4			C.B.I. Type A (6,2)(H=6.0')
R22	LT. 106+28		M	6.4'			47	40												1														4			C.B.I. Type A (16,6)(H=6.5')
R22	RT. 106+28		M	6.4'			47	20												1										8	1.35	21		36	4			C.B.I. Type A (15,6,)(H=7.5') & Sloped & Flared Hdwl w/Class III Outlet
R22	106+50		M	-																														40	16	1	Subgrade Drainage
R22	LT. 106+78		M	5.2'		119														1														4			C.B.I. Type A (6,2)(H=6.0')
R22	RT. 106+78		M	5.2'		119														1														4			C.B.I. Type A (6,2)(H=6.0')
R22	LT. 108+00		M	-																1														4			C.B.I. Type A (4,2)(H=4.5')
R22	RT. 108+00		M	-																1														4			C.B.I. Type A (4,2)(H=4.5')
R24	LT. 110+31		M	5.5'																							36										Entrance Lt Sta. 110+31
R24	LT. 111+27		M	3.5'		46														1														4			C.B.I. Type A (4,2)(H=4.0')
R24	RT. 111+50		M	3.5'			169													1														4			C.B.I. Type A (6,2)(H=4.5')
R24	LT. 111+67		M	3.5'																							36										Entrance Pipe Sta. 111+67
R24	RT. 113+26		M	3.9'			40													1														4			C.B.I. Type A (6,2)(H=5.0')
R24	RT. 113+55		M	4.0'							25																			216	2.68	22		36				Sloped & Flared Hdwl w/Class III Outlet
R24	LT. 113+70		M	4.0'					80	49								1																			Manhole Type A (H=7.85')
R24	RT. 113+70		M	4.0'				50												1																	C.B.I. Type A (5I,6)(H=6.0')
R24	114+00		M	-																														40	20	1	Subgrade Drainage
R24	RT. 114+26		M	3.4'				118												1														4			C.B.I. Type A (16,2)(H=5.0')
R24	LT. 114+50		M	3.3'					194									1																			Manhole Type A (H=7.75')
R26	RT. 115+50		M	3.6'			202													1														4			C.B.I. Type A (6,2)(H=4.0')
R26	LT. 116+40		M	3.6'			14		98									1			1																Junction Box #11 D.B.I. Type I (H=4.0')
R26	LT. 117+36-117+62		M	4.2'	8				85									1						26													D.B.I. Type 12A (H=5.0')& Junction Box #11
R26	RT. 117+60		M	3.5'			173													1														4			C.B.I. Type A (6,2)(H=4.5')
R26	LT. 118+24-118+50		M	3.8'	8				52									1						26													D.B.I. & Type 12A (H=6.0')& Junction Box #11
R26	LT. 118+80		M	3.6'					109											1														4			C.B.I. Type A (24,2)(H=8.70')
R26	RT. 119+36		M	3.5'			181													1														4			C.B.I. Type A (6,2)(H=4.5')
R26	LT. 119+92		M	2.8'					195											1														4			C.B.I. Type A (24,2)(H=5.0')
R28	RT. 121+20		M	3.0'			199													1														4			C.B.I. Type A (6,2)(H=4.5')
R28	LT. 121+90		M	4.6'			72		14									1												141	1.68	12		22				Junction Box #14 - Sloped & Flared Hdwl w/Class III Intlet
R28	LT. 122+60-13+10		M	5.3'	10	229												1						50													D.B.I. Type 12A (H=5.0') Junction Box #3
R28	RT. 123+25		M	4.4			103													1														4			C.B.I. Type A (6,2)(H=5.5')
R28	RT. 124+34		M	4.4'			110													1														4			C.B.I. Type A (6,2)(H=4.5')
R28	LT. 124+85		M	4.4'																	1																D.B.I. Type I (H=6.0')
SHEET TOTAL					42	944	2211	587	827	49	25	0	0	0	0	0	2	9	1	30	4	1	1	190	0		141	20	365	5.71	55	0	94	228	56	3	

PIPE SUMMARY SHEET

PIPE DRAINAGE SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R2g

SHEET NO.		SKEW	PH	FILL HEIGHT	STORM SEWER PIPE-12 INCH	STORM SEWER PIPE-15 INCH	STORM SEWER PIPE-18 INCH	STORM SEWER PIPE-24 INCH	STORM SEWER PIPE-30 INCH	STORM SEWER PIPE-36 INCH	STORM SEWER PIPE-42 INCH	CULVERT PIPE 48" EQUIV	BORE AND JACK 18" PIPE	BORE AND JACK 24" PIPE	BORE AND JACK 30" PIPE	MANHOLE TYPE B	MANHOLE TYPE A	JUNCTION BOX	JUNCTION BOX-TYPE B	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	CAP EXISTING DROP BOX INLET	ENTRANCE PIPE-15 INCH	8" PVC	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING CLASS II	CHANNEL LINING CLASS III	PERFORATED PIPE-4 INCH	NON-PERFORATED PIPE-4 INCH	PERF PIPE HEADWALL TY 1-4 INCH	REMARKS
ITEM CODE					520	521	522	524	526	528	529	499	23126EN	21799EN	21800EN	1761	1756	1650	4811	1456	1490	1496	1544	1550	1577	20098NC	440	23673EC	8150	8100	20597EC	2483	2484	1000	1010	1020	
UNIT TO BID				FT	L I N E A R F E E T											EACH								L.F.	EACH			L.F.		LBS	C.Y.	C.Y.	TON		L.F.		EACH	
R30	RT. 125+50		M	4.4'		191														1														4			C.B.I. Type A (6,2)(H=4.5')
R30	RT. 127+50		M	4.4'																1					1									4			C.B.I. Type A (4,2)(H=4.5')
R30	LT. 128+50		M	1.1'			20											1																				Junction Box #3 (Modified) D.B.I. Type 14 (Modified) (H=2.15')
R30	LT. 129+20		M	1.0'																			1															DBI Type 11 (H=2.8') Tie to Exist. 24" BCCMP
R30	LT. 129+23		M																							1											
R30	RT. 129+24		M																							1											
R30	RT. 129+60		M	6.0'			114									1				1													15		20	4			C.B.I. Type A (6,2)(H=8.34') Manhole Type B (H=11.5')
R30	LT. 129+75		M	4.5'			97													1															4			C.B.I. Type A (6,2)(H=7.10')
R32	LT. 130+75		M	3.8'		82														1															4			C.B.I. Type A (6,2)(H=6.95')
R32	LT. 131+60		M	3.8'																1															4			C.B.I. Type A (4,2)(H=4.5')
R32	LT. 132+50		M	3.3'		144														1															4			C.B.I. Type A (4,2)(H=4.0')
R32	LT. 134+00		M	4.9'			144													1															4			C.B.I. Type A (6,2)(H=6.0')
R34	LT. 135+09		M	4.0'																							32											Entrance Lt. 135+09
R34	RT. 135+32		M	12.6'					①52																				141	1.68	5		24					Sloped & Flared Hdwl w/Class III Outlet
R34	LT. 135+50		M	9.8'		96		193							25					1	1													4			C.B.I. Type A (26,2)(H=10.6') D.B.I. Type 1 w/o Apron (H=3.5')
R34	LT. 136+30		M	9.0'																	1																	D.B.I. Type 1 w/o Apron (H=4.0')
R34	LT. 137+50		M	4.0'				243												1															4			C.B.I. Type A (16,2)(H=5.5')
R34	LT. 138+00		M	4.0'																							55											Entrance Lt. 138+00
R34	138+00		M	6.0'																															40	36	1	Transverse Benching-See Geotechnical Note #6
R34	LT. 140+00		M	3.7'		12	39	40												1	1														4			C.B.I. Type A (16,2)(H=5.0') D.B.I. Type 1 w/o Apron (H=3.0')
R34	RT. 140+00		M	3.7'		129												1																				Junction Box #3
R36	LT. 140+42		M	3.6'			154										1																						Manhole Type A (H=5.0')
R36	LT. 140+47		M	3.6'				34										1																				Junction Box #6 Tie to Exist. 24" CMP
R36	LT. 141+32		M	3.6'		115														1																			C.B.I. Type A (4,2)(H=5.5')
R36	LT. 142+00		M	2.5'		26											1																						Manhole Type A (H=4.3')
R36	LT. 142+05		M	2.5'														1																						Junction Box #3 Tie to Exist. 18" CMP
R36	RT. 142+50		M																	1															4			C.B.I. Type A (4,2)(H=4.25')
R36	LT. 143+77-144+07		M	1.5'		15																		27															DBI Type 12A (H=3.0')
	Various Locations																																		68	12	1	Subgrade Drainage-See Geotechnical Note #7
	SHEET TOTAL				0	810	568	510	52	0	0	0	0	0	25	1	2	3	0	13	3	0	1	27	1	2	87	0	141	1.68	20	0	44	156	48	2	
	TOTAL PROJECT				56	2894	3855	1126	1052	108	25	72	85	30	25	1	4	14	1	72	15	1	2	253	4	2	260	20	②1309	②22.05	② 189	0	② 334	559	132	7	

① For pipe crossings where boring and jacking are required the remainder of the pipe between structures shall be the same material as bored and jacked pipe to prevent any additional pipe junctions.

② Carried over and included in General Summary

PIPE SUMMARY SHEET

PIPE DRAINAGE SUMMARY

1 REVISED 11-27-12

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R2g

SHEET NO.		SKEW	PH	FILL HEIGHT	STORM SEWER PIPE-12 INCH	STORM SEWER PIPE-15 INCH	STORM SEWER PIPE-18 INCH	STORM SEWER PIPE-24 INCH	STORM SEWER PIPE-30 INCH	STORM SEWER PIPE-36 INCH	STORM SEWER PIPE-42 INCH	CULVERT PIPE 48" EQUIV	BORE AND JACK 18" PIPE	BORE AND JACK 24" PIPE	BORE AND JACK 30" PIPE	MANHOLE TYPE B	MANHOLE TYPE A	JUNCTION BOX	JUNCTION BOX-TYPE B	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	CAP EXISTING DROP BOX INLET	ENTRANCE PIPE-15 INCH	8" PVC	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING CLASS II	CHANNEL LINING CLASS III	PERFORATED PIPE-4 INCH	NON-PERFORATED PIPE-4 INCH	PERF PIPE HEADWALL TY 1-4 INCH	REMARKS
ITEM CODE					520	521	522	524	526	528	529	499	23126EN	21799EN	21800EN	1761	1756	1650	4811	1456	1490	1496	1544	1550	1577	20098NC	440	23673EC	8150	8100	20597EC	2483	2484	1000	1010	1020	
UNIT TO BID				FT	LINEAR FEET											EACH								L.F.	EACH		L.F.		LBS	C.Y.	C.Y.	TON		L.F.		EACH	
R30	RT. 125+50		M	4.4'		191														1														4			C.B.I. Type A (6.2)(H=4.5')
R30	RT. 127+50		M	4.4'																1					1									4			C.B.I. Type A (4.2)(H=4.5')
R30	LT. 128+50		M	1.1'			20											1																			Junction Box #3 (Modified) D.B.I. Type 14 (Modified) (H=2.15')
R30	LT. 129+20		M	1.0'																			1														DBI Type 11 (H=2.8') Tie to Exist. 24" BCCMP
R30	LT. 129+23		M																							1											
R30	RT. 129+24		M																							1											
R30	RT. 129+60		M	6.0'			114									1				1											15		20	4			C.B.I. Type A (6.2)(H=8.34') Manhole Type B (H=11.5')
R30	LT. 129+75		M	4.5'			97													1														4			C.B.I. Type A (6.2)(H=7.10')
R32	LT. 130+75		M	3.8'		82														1														4			C.B.I. Type A (6.2)(H=6.95')
R32	LT. 131+60		M	3.8'																1														4			C.B.I. Type A (4.2)(H=4.5')
R32	LT. 132+50		M	3.3'		144														1														4			C.B.I. Type A (4.2)(H=4.0')
R32	LT. 134+00		M	4.9'			144													1														4			C.B.I. Type A (6.2)(H=6.0')
R34	LT. 135+09		M	4.0'																							32										Entrance Lt. 135+09
R34	RT. 135+32		M	12.6'					(1)52																				141	1.68	5		24				Sloped & Flared Hdwl w/Class III Outlet
R34	LT. 135+50		M	9.8'		96		193							25					1	1													4			C.B.I. Type A (26.2)(H=10.6') D.B.I. Type 1 w/o Apron (H=3.5')
R34	LT. 136+30		M	9.0'																	1																D.B.I. Type 1 w/o Apron (H=4.0')
R34	LT. 137+50		M	4.0'				243												1														4			C.B.I. Type A (16.2)(H=5.5')
R34	LT. 138+00		M	4.0'																							55										Entrance Lt. 138+00
R34	138+00		M	6.0'																														40	36	1	Transverse Benching-See Geotechnical Note #6
R34	LT. 140+00		M	3.7'		12	39	40												1	1													4			C.B.I. Type A (16.2)(H=5.0') D.B.I. Type 1 w/o Apron (H=3.0')
R34	RT. 140+00		M	3.7'		129												1																			Junction Box #3
R36	LT. 140+42		M	3.6'			154										1																					Manhole Type A (H=5.0')
R36	LT. 140+47		M	3.6'				34										1																			Junction Box #6 Tie to Exist. 24" CMP
R36	LT. 141+32		M	3.6'		115														1																		C.B.I. Type A (4.2)(H=5.5')
R36	LT. 142+00		M	2.5'		26											1																					Manhole Type A (H=4.3')
R36	LT. 142+05		M	2.5'														1																					Junction Box #3 Tie to Exist. 18" CMP
R36	RT. 142+50		M																	1														4			C.B.I. Type A (4.2)(H=4.25')
R36	LT. 143+77-144+07		M	1.5'		15																		27														DBI Type 12A (H=3.0')
	Various Locations																																	68	12	1	Subgrade Drainage-See Geotechnical Note #7
	SHEET TOTAL				0	810	568	510	52	0	0	0	0	0	25	1	2	3	0	13	3	0	1	27	1	2	87	0	141	1.68	20	0	44	156	48	2	
	TOTAL PROJECT				56	2894	3855	1126	1052	108	25	72	85	30	25	1	4	14	1	72	15	1	2	253	4	2	260	20	(2)1309	(2)22.05	(2) 189	0	(2) 334	559	132	7	

(1) For pipe crossings where boring and jacking are required the remainder of the pipe between structures shall be the same material as bored and jacked pipe to prevent any additional pipe junctions.

(2) Carried over and included in General Summary

PIPE SUMMARY SHEET

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R23

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-112+25	Spcl "V"	E.C. Blk	2.0	146 S.Y.
114+75-115+00	Spcl "V"	E.C. Blk	1.0	23 S.Y.

Lt. Sta. 110+00 to Sta. 115+00 Const.
446 L.F. Std. Curb & Gutter Mod
& 254 S.Y. of 4" Conc. Sidewalk
& 221 S.Y. Sod

CONSTRUCT ENTRANCES LEFT				
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT	ENTRANCE PIPE
110+31	16'	40 S.Y.	12 TON TBB	36 L.F. -15°
111+67	16'	25 S.Y.	10 TON TBB	36 L.F. -15°

P 35
BOBBY GENE MCGUYER
TESTAMENTARY TRUST A

Lt. Sta. 111+27 Const.
1-C.B.I. Type A
(4,2) (H=4.0')

Lt. Sta. 113+70 Const.
1-Manhole Type A
(H=7.85')

Lt. Sta. 114+50 Const.
1-Manhole Type A
(H=7.75')

P 34
BRAD WILLIAMS

111+00 112+00 113+00 114+00 115+00

UNIMPROVED ENTRANCE

Temp Easement for Entrance & Slope Construction

Top of 6" PVC
El 411.52

N7°53'17"W,200.06'

Proposed R/W

P&M ELEC.(SIGN)

POST

SAN

WM

15"

I.E. 408.79

Spcl "V" Ditch

O.E. 409.38

Exist R/W

O.E. 408.43

18" CMP (Remove)

S10°24'55"E, 326.89

Tract B

N15°00'51"W,50.33'

Tract A

N11°08'26"E,54.30'

18" RCP (Remove)

I.E. 409.66

Spcl "V" Ditch

Arc = 118.77'
Chord = 118.59' S 04°23'30" E
Radius = 634.59'

Arc = 94.81'
Chord = 94.71' N3°43'57" E
Radius = 580.00'

T/R 415.74
Inv. 407.89

T/R 416.77
Inv. 409.02

Billboard Sign

PP

AP

Exist & Proposed R/W

N 0°57'03" W.13.60'

PI 115+04.13

Temp Easement for Slope Construction

Proposed R/W

N 3°45'21" W,66.02'

Tract A

N9°19'13"W

Spcl "V" Ditch

30"

36"

MATCH LINE 110+00

MATCH LINE 115+00

Exist Guardrail (Remove) (113 L.F.)

US 231

F/L 415.52
Inv. 411.52

Disturbed Limits for Diversion No. 1

Arc = 15.00'
Chord = 15.0' S 10°20'16" E
Radius = 2932.18'

Arc = 292.35'
Chord = 289.65' N 02°46'48" E
Radius = 619.69'

F/L 415.67
Inv. 408.67

F/L 413.53
Inv. 407.53

Exist R/W

F/L 413.65
Inv. 408.65

Arc = 121.59'
Chord = 121.37' S14°25'17" W
Radius = 580.00'

F/L 415.28
Inv. 410.78

18"

24"

42"

0.E. 407.41

N 10°24'55" W
1087.44'

S88°04'43"E,26.00'

S5°04'52"E,92.44'

Proposed R/W

Arc = 138.26'
Chord=138.04' S 7°34'18" W
Radius = 701.00'

Temp Easement for Slope Construction

4' F.B. Ditch

Tract B

S 10°29'16" E,376.23'

Proposed R/W

Temp Easement for Slope Construction

Tract E

TS 111+83.77

SC 113+29.77

4"EL

Rt. Sta. 113+26 Const.
1-C.B.I. Type A
(6,2) (H=5.0')

Rt. Sta. 113+70 Const.
1-C.B.I. Type A
(51,6) (H=6.00')

Rt. Sta. 113+55 Const.
1-42" Pipe Culvert Headwall

Rt. Sta. 114+26 Const.
1-C.B.I. Type A
(16,2) (H=5.0')

CULTIVATED

CULTIVATED

Rt. Sta. 111+50 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

P 28
JOHNNY ROSE,IV (SINGLE)
PHILLIP ROSE
REBECCA ROSE (WF.)

P.I. STA. 115+04.13
Δ = 37°22'56.56" Rt.
Ts = 320.35'
Ls = 146.00'
Lc = 330.29'
θs = 5°43'47"
LT = 97.38'
ST = 48.71'
R = 730.00'
E = 41.93'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'

Rt. Sta. 113+35 to 113+50 Const.
4' F.B. Outlet Ditch w/36 Tons,
Class III Channel Lining (D=2',T=2')

DITCH CONSTRUCTION Rt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-113+50	4' F.B.	E.C. Blk	3.0'	675 S.Y.

Rt. Sta. 110+00 to Sta. 115+00 Const.
450 L.F. Std. Curb & Gutter Mod
& 271 S.Y. of 4" Conc. Sidewalk
& 228 S.Y. Sod

0' 20' 40' 80'

STA. 110+00 TO 115+00

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R23

1 REVISED 11-27-12

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-112+25	Spcl "V"	E.C. Blk	2.0	146 S.Y.
114+75-115+00	Spcl "V"	E.C. Blk	1.0	23 S.Y.

Lt. Sta. 110+00 to Sta. 115+00 Const.
446 L.F. Std. Curb & Gutter Mod
& 254 S.Y. of 4" Conc. Sidewalk
& 221 S.Y. Sod

CONSTRUCT ENTRANCES LEFT				
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT	ENTRANCE PIPE
110+31	16'	40 S.Y.	12 TON TBB	36 L.F. -15°
111+67	16'	25 S.Y.	10 TON TBB	36 L.F. -15°

P 35
BOBBY GENE MCGUYER
TESTAMENTARY TRUST A

Lt. Sta. 111+27 Const.
1-C.B.I. Type A
(4,2) (H=4.0')

Lt. Sta. 113+70 Const.
1-Manhole Type A
(H=7.85')

Lt. Sta. 114+50 Const.
1-Manhole Type A
(H=7.75')

P 34
BRAD WILLIAMS

111+00 112+00 113+00 114+00 115+00

UNIMPROVED ENTRANCE

Temp Easement for Entrance & Slope Construction

Top of 6" PVC El 411.52

N7°53'17"W, 200.06'

Proposed R/W

P&M ELEC.(SIGN)

POST

N15°00'51"W, 50.33'

Tract B

N11°08'26"E, 54.30'

Tract A

Exist & Proposed R/W

N 0°57'03" W, 13.60'

SAN

WM

Spcl "V" Ditch

I.E. 408.79

I.E. 409.66

O.E. 409.38

O.E. 408.43

18" CMP (Remove)

18" RCP (Remove)

S10°24'55"E, 326.89'

Exist R/W

Arc = 118.77'
Chord = 118.59' S 04°23'30" E
Radius = 634.59'

Arc = 94.81'
Chord = 94.71' N3°43'57" E
Radius = 580.00'

T/R 415.74
Inv. 407.89

T/R 416.77
Inv. 409.02

Billboard Sign

PI 115+04.13

Temp Easement for Slope Construction

Proposed R/W

N 3°45'21" W, 66.02'

Tract A

N9°19'13"W

Spcl "V" Ditch

30"

36"

Arc = 292.35'
Chord = 289.65' N 02°46'48" E
Radius = 619.69'

Arc = 15.00'
Chord = 15.0' S 10°20'16" E
Radius = 2932.18'

Disturbed Limits for Diversion No. 1

F/L 415.52
Inv. 411.52

F/L 415.67
Inv. 408.67

F/L 413.53
Inv. 407.53

F/L 413.65
Inv. 408.65

Arc = 121.59'
Chord = 121.37' S14°25'17" W
Radius = 580.00'

Exist R/W

Exist Guardrail (Remove) (113 L.F.)

US 231

F/L 415.28
Inv. 410.78

18"

24"

42"

O.E. 407.41

N 10°24'55" W 1087.44'

S88°04'43"E, 26.00'

S5°04'52"E, 92.44'

Arc = 138.26'
Chord = 138.04' S 7°34'18" W
Radius = 701.00'

Temp Easement for Slope Construction

Proposed R/W

4' F.B. Ditch

Tract B

S 10°29'16" E, 376.23'

Tract E

Temp Easement for Slope Construction

TS 111+83.77

SC 113+29.77

4-EL

MATCH LINE 110+00

MATCH LINE 115+00

Rt. Sta. 113+70 Const.
1-C.B.I. Type A
(51,6) (H=6.00')

Rt. Sta. 113+26 Const.
1-C.B.I. Type A
(6,2) (H=5.0')

Rt. Sta. 113+55 Const.
1-42" Pipe Culvert Headwall

Rt. Sta. 114+26 Const.
1-C.B.I. Type A
(16,2) (H=5.0')

CULTIVATED

CULTIVATED

Rt. Sta. 111+50 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

P 28
JOHNNY ROSE,IV (SINGLE)
PHILLIP ROSE
REBECCA ROSE (WF.)

P.I. STA. 115+04.13
Δ = 37°22'56.56" Rt.
Ts = 320.35'
Ls = 146.00'
Lc = 330.29'
θs = 5°43'47"
LT = 97.38'
ST = 48.71'
R = 730.00'
E = 41.93'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'

Rt. Sta. 113+35 to 113+50 Const.
4' F.B. Outlet Ditch w/36 Tons,
Class III Channel Lining (D=2',T=2')

DITCH CONSTRUCTION Rt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-113+50	4' F.B.	E.C. Blk	3.0'	675 S.Y.

Rt. Sta. 110+00 to Sta. 115+00 Const.
450 L.F. Std. Curb & Gutter Mod
& 271 S.Y. of 4" Conc. Sidewalk
& 228 S.Y. Sod

0' 20' 40' 80'

STA. 110+00 TO 115+00

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R02300PL.DGN
USER: EsJones
DATE PLOTTED: November 27, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R24

Earthwork Quantities
Sta.110+00 to Sta.115+00

Str Exc	=	*0*
Com	=	*815*
Emb	=	*2920*

OVERHEAD UTILITY
ELEV. = 434.42

OVERHEAD UTILITY
ELEV. = 450

DATUM 440 438 436 434 432 430 428 426 424 422 420 418 416 414 412 410 408 406 404 402

MATCH LINE 110+00

VPI 110+00.00
Elev 416.92

PVI 110+75.00
Elev 416.37

V.C. = 150.00'
NPSD = 955'

110+00
408.30

110+50
408.80

110+00
405.62

1%

0.5%

15" Entrance Pipe

Spcl. V Dt. Lt.

4' F.B. Dt. Rt.

Lt. Sta. 111+27 Const. 1-C.B.I. Type A (4.2) (H=4.00)

Rt. Sta. 111+50 Const. 1-C.B.I. Type A (6.2) (H=4.50)

Lt. F/L 415.52

Rt. F/L 415.28

-0.73%

Lt. Inv. 411.52

Const. 46 L.F. 15" Storm Sewer Pipe

So=1.609%

Rt. Inv. 410.78

15" Entrance Pipe

111+49
409.29

Spcl. V Dt. Lt.

So=1.249%

112+25
410.06

Const. 169 L.F. 18" Storm Sewer Pipe

PVC 113+00.00
Elev 414.74

Rt. Sta. 113+26 Const. 1-C.B.I. Type A (6.2) (H=5.00)

Rt. F/L 413.67

Rt. Inv. 408.67

Const. 40 L.F. 18" Storm Sewer Pipe

So=2.850%

113+50
407.37

LO 113+76.093
Elev 414.463

Rt. Sta. 113+70 Const. 1-C.B.I. Type A (5).6) (H=6.00)

Lt. Sta. 113+70 Const. 1-Manhole Type A (H=7.85)

Lt. T/R 415.74

Rt. F/L 413.65

Rt. F/L 413.53

Rt. Inv. 407.53

Rt. Sta. 114+26 Const. 1-C.B.I. Type A (6.2) (H=5.00)

Const. 80 L.F. 30" Storm Sewer Pipe

Const. 49 L.F. 36" Storm Sewer Pipe

Lt. Inv. 407.89

So=1.412%

So=2.240%

Rt. Inv. 408.65

Const. 50 L.F. 24" Storm Sewer Pipe

Lt. Sta. 114+50 Const. 1-Manhole Type A (H=7.75)

Lt. T/R 416.77

114+75
413.40

0.4%

115+00
413.50

Spcl. V Dt. Lt.

VPI 114+75.00
Elev 413.47

So=1.412%

So=1.974%

Lt. Inv. 409.02

Const. 118 L.F. 24" Storm Sewer Pipe

MATCH LINE 115+00

V.C. = 350.00'
HLSD = 493'

0' 20' 40' 80'

0' 2' 4' 8'

413.6 416.69 | 413.0 416.53 | 412.9 416.19 | 412.9 415.83 | 412.9 415.47 | 413.1 415.10 | 413.0 414.74 | 412.5 414.50 | 412.4 414.49 | 412.5 414.72 | 413.0 415.20

110+00 110+50 111+00 111+50 112+00 112+50 113+00 113+50 114+00 114+50 115+00

STA. 110+00 TO STA. 115+00

FILE NAME: G:\KY\BUTLER\US 23\N3 LANES\PLAN SET\R0240DPR.DGN
USER: Eslones
DATE PLOTTED: November 28, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R24

1 REVISED 11-27-12

Earthwork Quantities
Sta.110+00 to Sta.115+00

Str Exc	=	0
Com	=	815
Emb	=	2920

OVERHEAD UTILITY
ELEV. = 450

OVERHEAD UTILITY
ELEV. = 434.42

MATCH LINE 110+00

VPI 110+00.00
Elev 416.92

VPI 110+75.00
Elev 416.37

V.C. = 150.00'
NPSD = 955'

110+00
408.80

110+00
408.30

110+00
405.62

1%

0.5%

15" Entrance Pipe

Spcl. V Dt. Lt.

0.5%

4' F.B. Dt. Rt.

Lt. Sta. 111+27 Const. 1-C.B.I. Type A (4.2) (H=4.00)

Rt. Sta. 111+50 Const. 1-C.B.I. Type A (6.2) (H=4.50)

Lt. F/L 415.52

Rt. F/L 415.28

-0.73%

So=1.609%

Lt. Inv. 411.52

Const. 46 L.F. 15"
Storm Sewer Pipe

Rt. Inv. 410.78

111+49
409.29

1%

Spcl. V Dt. Lt.
So=1.249%

112+23.79
410.06

15" Entrance Pipe

Const. 169 L.F. 18"
Storm Sewer Pipe

PVC 113+00.00
Elev 414.74

Rt. Sta. 113+26 Const. 1-C.B.I. Type A (6.2) (H=5.00)

LO 113+76.093
Elev 414.463

Rt. F/L 413.67

Rt. Inv. 408.67

113+50
407.37

So=2.850%

Const. 40 L.F. 18"
Storm Sewer Pipe

Rt. Sta. 113+70 Const. 1-C.B.I. Type A (5).6) (H=6.00)

Lt. Sta. 113+70 Const. 1-Manhole Type A (H=7.85)

Lt. T/R 415.74

Rt. F/L 413.65

Rt. F/L 413.53

Const. 49 L.F.
36" Storm
Sewer Pipe
Lt. Inv. 407.89

Const. 80 L.F.
30" Storm
Sewer Pipe

So=1.412%

So=2.240%

Rt. Inv. 407.53

Rt. Sta. 114+26 Const. 1-C.B.I. Type A (6.2) (H=5.00)

Rt. Inv. 408.65

Const. 50 L.F. 24"
Storm Sewer Pipe

Rt. Sta. 114+50 Const. 1-Manhole Type A (H=7.75)

Lt. Sta. 114+50 Const. 1-Manhole Type A (H=7.75)

V.C. = 350.00'
HLSD = 493'

Lt. T/R 416.77

114+75
413.40

0.4%

115+00
413.50

Spcl. V Dt. Lt.

VPI 114+75.00
Elev 413.47

So=1.412%

So=1.974%

Lt. Inv. 409.02

Const. 118 L.F. 24"
Storm Sewer Pipe

MATCH LINE 115+00

413.6	413.0	412.9	412.9	412.9	413.1	413.0	412.5	412.4	412.5	413.0
416.69	416.53	416.19	415.83	415.47	415.10	414.74	414.50	414.49	414.72	415.20
110+00	110+50	111+00	111+50	112+00	112+50	113+00	113+50	114+00	114+50	115+00

STA. 110+00 TO STA. 115+00

DATUM 440 438 436 434 432 430 428 426 424 422 420 418 416 414 412 410 408 406 404 402

0' 20' 40' 80'

0' 2' 4' 8'

FILE NAME: G:\KY\BUTLER\US 23\3 LANES\PLAN SET\R0240DPR.DGN
USER: Esjones
DATE PLOTTED: November 27, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R25

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
115+00-116+25	Spcl "V"	E.C. Blk	1.0'	124 S.Y.
116+40-116+60	Spcl "V"	Class II	2.0'	37 Ton
116+95-117+30	Spcl "V"	E.C. Blk	1.0'	60 S.Y.

CONSTRUCT ENTRANCES LEFT			
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
116+84	•30'	40 S.Y.	121 S.Y. ASPH
117+49	•26'	36 S.Y.	34 S.Y. CONC.
118+37	•26'	36 S.Y.	59 S.Y. CONC.

•Requires Detectable Warnings

CONSTRUCT ENTRANCES RIGHT			
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
115+25	16'	24 S.Y.	34 S.Y. ASPH
116+16	•50'	62 S.Y.	132 S.Y. ASPH
117+25	•40'	61 S.Y.	56 S.Y. ASPH
118+96	•50'	78 S.Y.	109 S.Y. ASPH
119+82	•24'	49 S.Y.	46 S.Y. ASPH

•Requires Detectable Warnings

Lt. Sta. 115+00 to Sta. 120+00 Const.
390 L.F. Std. Curb & Gutter Mod
& 228 S.Y. of 4" Conc. Sidewalk
with 60 S.F. Detectable Warnings
& 195 S.Y. Sod

Lt. Sta. 116+40 Const. 1-DBI
Type 1 & 1-Junction Box #11

Lt. Sta. 117+36 to Sta. 117+62
Const. 26 L.F. D.B.I. Type 12A

Lt. Sta. 117+38 Const. 1-
Junction Box #11

Lt. Sta. 118+24 to Sta. 118+50
Const. 26 L.F. D.B.I. Type 12A

Lt. Sta. 118+25 Const. 1-
Junction Box #11

Lt. Sta. 118+80 Const.
1-C.B.I. Type A
(24,2) (H=8.70')

Lt. Sta. 119+92 Const.
1-C.B.I. Type A
(24,2) (H=5.0')

P 35 — BOBBY GENE MCGUYER
TESTAMENTARY TRUST A

P 37 — DAVID BRUCE MINTON
REBECCA MINTON

P 38 — HOUCHENS PROPERTIES,INC.

P 40 — BOBBY MCGUYER
BARBARA MCGUYER

P 68 — RANDALL BRATCHER
PAM BRATCHER

P 69 — CHAD JOHNSON

P 39 — DAVID MINTON
REBECCA MINTON (WF.)

1-S-FRAME BUSINESS (SONIC)

P.I. STA. 115+04.13
Δ = 37°22'56.56" Rt.
Ts = 320.35'
Ls = 146.00'
Lc = 330.29'
θs = 5°43'47"
LT = 97.38'
ST = 48.71'
R = 730.00'
E = 41.93'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'

Rt. Sta. 115+50 Const.
1-C.B.I. Type A
(6,2) (H=4.00')

Rt. Sta. 115+00 to Sta. 120+00 Const.
213 L.F. Std. Curb & Gutter Mod
& 122 S.Y. of 4" Conc. Sidewalk
with 80 S.F. Detectable Warnings
& 137 S.Y. Sod

Rt. Sta. 117+60 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

Rt. Sta. 119+36 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

MATCH LINE 115+00

MATCH LINE 120+00

US 231

116+00

117+00

118+00

119+00

CS 116+60.06

ST 118+06.06

Tract A

Tract B

Tract E

Proposed R/W

Temp Easement for Entrance & Slope Construction

Temp Easement

Existing Easement For Parcel P-53

Exist R/W

Exist & Proposed R/W

Spcl "V" Ditch

DENSE VEGETATION

GRAVEL ENTRANCE

CONCRETE ENTRANCE

CONCRETE ENTRANCE DO NOT DISTURB

CONCRETE PARKING

DO NOT DISTURB

INACCESSIBLE

Pump Station

UTILITY CONTROL INTERFACE

WRECKER SERV.

Force Main

Gravity

4-POWER LINES

2-BRACE CABLES

GRAVEL

Do Not Remove

Arc = 121.59'
Chord = 121.37' S14°25'17" W
Radius = 580.00'

Arc = 292.35'
Chord = 289.65' N 02°46'48" E
Radius = 619.69'

Arc = 74.68'
Chord = 74.63' S 24°06'57" W
Radius = 580.00'

Arc = 101.24'
Chord = 101.14' N 23°47'00" E
Radius = 639.49'

Arc = 138.26'
Chord = 138.04' S 07°34'18" W
Radius = 701.00'

Arc = 107.92'
Chord = 107.82' S 17°37'57" W
Radius = 701.00'

N 3°45'21" W, 66.02'
N11°00'39" E, 61.69'
S66°03'21" E, 18.06'
N66°03'21"W, 18.06'
N 11°00'39" E, 57.10'
N10°34'58" W, 3.21'
N 23°25'18" E, 32.76'
N24°58'23" E, 19.63'
N89°40'43" E, 16.33'
N65°33'30"W 15.00'
N68°40'43" E, 47.35'
S 68°59'43" E, 48.25'
N68°59'43"W, 48.25'
N 27°48'08" E, 125.78'
S 27°48'17" W, 70.40'
S 27°48'17" W, 155.00'
N 27°48'17" E, 139.47'
N 27°48'17" E, 170.01'
S 27°48'17" W, 337.59'
N 27°48'17" E, 58.44'
S61°56'17" E, 4.00'
S68°59'43" E, 2.14'
N 28°03'43" E, 12.39'
N 28°03'44" E, 302.61'
N70°23'26"W, 10.29'
N28°03'44"E

Inv. 411.76
Inv. 412.84
Inv. 413.77
Inv. 414.98
Inv. 410.98
Inv. 415.87
Inv. 414.81
Inv. 420.47
Inv. 421.44
Inv. 415.12
Inv 415.22

T/G 417.50
Inv. 413.75
T/G 421.50
Inv. 416.50
T/G 423.50
Inv. 417.50

F/L 420.37
F/L 423.51
F/L 424.97
F/L 426.44
WWT/R 424.84

18" RCP (Remove)
24" CMP (Remove)
24" STEEL PIPE (Remove)
15" CMP (Remove)
(Remove) Exist R/W

0' 20' 40' 80'

STA. 115+00 TO 120+00

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R25

1 REVISED 11-27-12

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
115+00-116+25	Spcl "V"	E.C. Blk	1.0'	124 S.Y.
116+40-116+60	Spcl "V"	Class II	2.0'	37 Ton
116+95-117+30	Spcl "V"	E.C. Blk	1.0'	60 S.Y.

CONSTRUCT ENTRANCES LEFT			
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
116+84	•30'	40 S.Y.	121 S.Y. ASPH
117+49	•26'	36 S.Y.	34 S.Y. CONC.
118+37	•26'	36 S.Y.	59 S.Y. CONC.

•Requires Detectable Warnings

Lt. Sta. 115+00 to Sta. 120+00 Const.
390 L.F. Std. Curb & Gutter Mod
& 228 S.Y. of 4" Conc. Sidewalk
with 60 S.F. Detectable Warnings
& 195 S.Y. Sod

Lt. Sta. 116+40 Const. 1-DBI
Type 1 & 1-Junction Box "11

Lt. Sta. 117+36 to Sta. 117+62
Const. 26 L.F. D.B.I. Type 12A

Lt. Sta. 117+38 Const. 1-
Junction Box "11

Lt. Sta. 118+24 to Sta. 118+50
Const. 26 L.F. D.B.I. Type 12A

Lt. Sta. 118+25 Const. 1-
Junction Box "11

Lt. Sta. 118+80 Const.
1-C.B.I. Type A
(24,2) (H=8.70') 1

Lt. Sta. 119+92 Const.
1-C.B.I. Type A
(24,2) (H=5.0')

P 35 — BOBBY GENE MCGUYER TESTAMENTARY TRUST A

P 37 — DAVID BRUCE MINTON, REBECCA MINTON

P 38 — HOUCHENS PROPERTIES, INC.

P 40 — BOBBY MCGUYER, BARBARA MCGUYER

P 68 — RANDALL BRATCHER, PAM BRATCHER

P 69 — CHAD JOHNSON

P 39 — DAVID MINTON, REBECCA MINTON (W.F.)

1-S-FRAME BUSINESS (SONIC)

MATCH LINE 115+00

MATCH LINE 120+00

116+00

117+00

118+00

119+00

US 231

CS 116+60.06

ST 118+06.06

Do Not Remove

Proposed R/W

Temp Easement for Entrance & Slope Construction

Temp Easement

Exist R/W

Exist & Proposed R/W

Tract A

Tract B

Tract E

Spcl "V" Ditch

GRAVEL ENTRANCE

CONCRETE ENTRANCE

CONCRETE ENTRANCE DO NOT DISTURB

CONCRETE PARKING

DENSE VEGETATION

DO NOT DISTURB

Force Main

Gravity

Pump Station

UTILITY CONTROL INTERFACE

WRECKER SERV.

INACCESSIBLE

Existing Easement For Parcel P-53

N 3°45'21" W, 66.02'

N 23°25'18" E, 32.76'

N 24°58'23" E, 19.63'

N 89°40'43" E, 16.33'

N 65°33'30" W, 15.00'

N 68°59'43" W, 48.25'

N 68°59'43" E, 47.38'

N 11°34'58" W, 32.14'

N 11°00'39" E, 57.10'

N 11°00'39" E, 61.69'

S 66°03'21" E, 18.06'

N 66°03'21" W, 18.06'

S 27°48'17" W, 70.40'

S 68°59'43" E, 48.25'

N 27°48'08" E, 125.78'

S 27°48'17" W, 155.00'

S 61°56'17" E, 4.00'

S 68°59'43" E, 2.14'

N 28°03'44" E, 12.39'

N 28°03'44" E, 302.61'

S 27°48'17" W, 337.59'

N 28°03'44" E

N 27°48'17" E, 170.01'

N 27°48'17" E, 58.44'

N 27°48'17" E, 138.47'

N 27°48'17" E, 6.84'

N70°23'26"W, 10.29'

Arc = 74.68'
Chord = 74.63' S 24°06'57" W
Radius = 580.00'

Arc = 121.59'
Chord = 121.37' S14°25'17" W
Radius = 580.00'

Arc = 101.24'
Chord = 101.14' N 23°47'00" E
Radius = 639.49'

Arc = 292.35'
Chord = 289.65' N 02°46'48" E
Radius = 619.69'

Arc = 138.26'
Chord=138.04' S 07°34'18" W
Radius = 701.00'

Arc = 107.92'
Chord=107.82' S 17°37'57" W
Radius = 701.00'

Inv. 411.76

Inv. 412.84

Inv. 413.77

Inv. 414.81

Inv. 410.98

F/L 423.51

F/L 420.37
Inv. 415.87

F/L 426.44
Inv. 421.44

F/L 424.97
Inv. 420.47

T/G 417.50
Inv. 413.75

T/G 421.50
Inv. 416.50

T/G 423.50
Inv. 417.50

Inv 415.12

Inv 415.22

WWT/R 424.84

P.I. STA. 115+04.13
Δ = 37°22'56.56" Rt.
Ts = 320.35'
Ls = 146.00'
Lc = 330.29'
θs = 5°43'47"
LT = 97.38'
ST = 48.71'
R = 730.00'
E = 41.93'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'

Rt. Sta. 115+50 Const.
1-C.B.I. Type A
(6,2) (H=4.00')

Rt. Sta. 115+00 to Sta. 120+00 Const.
213 L.F. Std. Curb & Gutter Mod
& 122 S.Y. of 4" Conc. Sidewalk
with 80 S.F. Detectable Warnings
& 137 S.Y. Sod

Rt. Sta. 117+60 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

Rt. Sta. 119+36 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

CONSTRUCT ENTRANCES RIGHT			
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
115+25	16'	24 S.Y.	34 S.Y. ASPH
116+16	•50'	62 S.Y.	132 S.Y. ASPH
117+25	•40'	61 S.Y.	56 S.Y. ASPH
118+96	•50'	78 S.Y.	109 S.Y. ASPH
119+82	•24'	49 S.Y.	46 S.Y. ASPH

•Requires Detectable Warnings

0' 20' 40' 80'

STA. 115+00 TO 120+00

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: Esiones DATE PLOTTED: November 28, 2012 | FILE NAME: G:\KY\BUTLER\US 23\N3 LANES\PLAN SET\R02500PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R26

Earthwork Quantities
Sta. 115+00 to Sta. 120+00

Str Exc	=	*0*
Com	=	*190*
Emb	=	*976*

DATUM 440 438 436 434 432 430 428 426 424 422 420 418 416 414 412 410 408 406 404 402

OVERHEAD UTILITY ELEV. = 438.48

OVERHEAD UTILITY ELEV. = 438.48

V.C.=350.00'
NPSD=493.17'

MATCH LINE 115+00

Rt. Sta. 115+50 Const. 1-C.B.I. Type A (6.2) (H=4.00)

Rt. F/L 414.98

115+50
414.06

1.12%

H5+00
413.50

So=1.412%

So=1.974%

Rt. Inv. 410.98

3.27%

Spcl. V Dt. Lt.

So=2.421%

Const. 202 L.F. 18"
Storm Sewer Pipe

Lt. Sta. 116+40 Const. 1-Junction Box #11

PVT 116+50.00
Elev 418.04

116+40
417.50

116+25
416.51

0.9%

116+60
417.68

Spcl. V Dt. Lt.

Const. 194 L.F. 30"
Storm Sewer Pipe

Lt. Inv. 411.76

Rt. Sta. 117+38 Const. 1-Junction Box #11

Rt. Sta. 117+60 Const. 1-C.B.I. Type A (6.2) (H=4.50)

Rt. F/L 420.37

Const. 173 L.F. 18"
Storm Sewer Pipe

Rt. Inv. 415.87

So=1.102%

Const. 98 L.F. 30"
Storm Sewer Pipe

Lt. Inv. 412.84

Lt. Sta. 118+25 Const. 1-Junction Box #11

SAN. SEWER
APPROX. ELEV.
(LEFT)

SAN. SEWER
APPROX. ELEV.
(RIGHT)

So=2.669%

So=1.094%

Const. 85 L.F. 30"
Storm Sewer Pipe

Lt. Inv. 413.77

Lt. Sta. 118+80 Const. 1-C.B.I. Type A (24.2) (H=8.70)

2.61%

Lt. F/L 423.51

So=2.00%

Const. 52 L.F. 30"
Storm Sewer Pipe

Lt. Inv. 414.81

Rt. Sta. 119+36 Const. 1-C.B.I. Type A (6.2) (H=4.50)

Rt. F/L 424.97

So=6.085%

Const. 109 L.F. 30"
Storm Sewer Pipe

Rt. Inv. 420.47

Lt. Sta. 119+92 Const. 1-C.B.I. Type A (24.2) (H=5.00)

Lt. F/L 426.44

Lt. Inv. 421.44

MATCH LINE 120+00

0' 20' 40' 80'

0' 2' 4' 8'

413.0 415.20 | 413.7 415.91 | 414.9 416.86 | 416.4 418.04 | 417.8 419.35 | 419.3 420.66 | 420.8 421.97 | 422.1 423.27 | 423.4 424.58 | 424.7 425.89 | 425.8 427.20

115+00 115+50 116+00 116+50 117+00 117+50 118+00 118+50 119+00 119+50 120+00

STA. 115+00 TO STA. 120+00

FILE NAME: G:\KY\BUTLER\US 23\3 LANES\PLAN SET\R02600PR.DGN
USER: EsJones
DATE PLOTTED: November 28, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R26

1 REVISED 11-27-12

Earthwork Quantities
Sta. 115+00 to Sta. 120+00

Str Exc	=	*0*
Com	=	*190*
Emb	=	*976*

DATUM 440 438 436 434 432 430 428 426 424 422 420 418 416 414 412 410 408 406 404 402

OVERHEAD UTILITY ELEV. = 438.48

OVERHEAD UTILITY ELEV. = 438.48

V.C.=350.00'
NPSD=493.17'

MATCH LINE 115+00

Rt. Sta. 115+50 Const. 1-C.B.I. Type A (6.2) (H=4.00)

Rt. F/L 414.98

115+50
414.06

1.12%

115+00
413.50

So=1.412%

So=1.974%

Rt. Inv. 410.98

3.27%

Spcl. V Dt. Lt.

So=2.421%

Const. 202 L.F. 18" Storm Sewer Pipe

Lt. Sta. 116+40 Const. 1-Junction Box #11

PVT 116+50.00
Elev 418.04

116+40
417.50

116+25
416.51

0.9%

116+60
417.68

Spcl. V Dt. Lt.

Lt. Inv. 411.76

Const. 194 L.F. 30" Storm Sewer Pipe

Lt. Sta. 117+38 Const. 1-Junction Box #11

Rt. Sta. 117+60 Const. 1-C.B.I. Type A (6.2) (H=4.50)

Rt. F/L 420.37

So=1.102%

Const. 98 L.F. 30" Storm Sewer Pipe

Lt. Sta. 118+25 Const. 1-Junction Box #11

Lt. Inv. 412.84

Rt. Inv. 415.87

So=1.094%

Const. 85 L.F. 30" Storm Sewer Pipe

Lt. Sta. 118+80 Const. 1-C.B.I. Type A (24.2) (H=8.70)

Lt. F/L 423.51

2.61%

Const. 173 L.F. 18" Storm Sewer Pipe

SAN. SEWER APPROX. ELEV. (LEFT)

So=2.669%

SAN. SEWER APPROX. ELEV. (RIGHT)

So=2.00%

Const. 52 L.F. 30" Storm Sewer Pipe

Lt. Inv. 413.77

Rt. Sta. 119+36 Const. 1-C.B.I. Type A (6.2) (H=4.50)

Rt. F/L 424.97

Lt. Inv. 414.81

Lt. Sta. 119+92 Const. 1-C.B.I. Type A (24.2) (H=5.00)

Lt. F/L 426.44

MATCH LINE 120+00

Lt. Inv. 421.44

Rt. Inv. 420.47

So=6.085%

Const. 109 L.F. 30" Storm Sewer Pipe

0' 20' 40' 80'

0' 2' 4' 8'

413.0 415.20 | 413.7 415.91 | 414.9 416.86 | 416.4 418.04 | 417.8 419.35 | 419.3 420.66 | 420.8 421.97 | 422.1 423.27 | 423.4 424.58 | 424.7 425.89 | 425.8 427.20

115+00 115+50 116+00 116+50 117+00 117+50 118+00 118+50 119+00 119+50 120+00

STA. 115+00 TO STA. 120+00

FILE NAME: G:\KY\BUTLER\US 23\3 LANES\PLAN SET\R02600PR.DGN
USER: EsJones
DATE PLOTTED: November 27, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R29

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
125+50-126+25	Spcl "V"	E.C.Blk	1.0'	42 S.Y.

CONSTRUCT ENTRANCES LEFT			
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
129+22	•30'	56 S.Y.	62 S.Y. ASPH

•Requires Detectable Warnings

Lt. Sta. 125+00 to Sta. 130+00 Const.
453 L.F. Std. Curb & Gutter Mod
& 259 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 220 S.Y. Sod

Lt. Sta. 128+48 Const.
I- D.B.I. Type 14

Lt. Sta. 128+50 Const.
Junction Box #3 (Tie to
Inlet end of exist 18" CMP)

Lt. Sta. 128+50 to Sta. 129+07
Const. 62 L.F. Std. Header Curb

Lt. Sta. 129+37 to Sta. 129+92
Const. 57 L.F. Std. Header Curb

Lt. Sta. 129+75 Const.
I-C.B.I. Type A
(6,2) (H=7.10')

Lt. Sta. 129+20 Const.
I-D.B.I. Type II (tie to
℄ of Exist 24" BCCMP

Lt. Sta. 128+50 to Sta. 129+92
Const. 210 S.Y. Paving Area

P.I. STA. 125+67.63
Δ = 43°09'58.06" Rt.
Ts = 389.89'
Ls = 146.00'
Lc = 456.71'
θs = 5°13'42"
LT = 97.38'
ST = 48.71'
R = 800.00'
E = 61.51'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'

Rt. Sta. 125+50 Const.
I-C.B.I. Type A
(6,2) (H=4.50')

Rt. Sta. 127+50 Const.
I-C.B.I. Type A
(4,2) (H=4.50')

Rt. Sta. 129+60 Const.
I-C.B.I. Type A
(6,2) (H=8.34')

Rt. Sta. 129+60 Const.
Manhole Type 'B' (H=11.5')

Rt. Sta. 129+59 Const.
4' F.B. Outlet Ditch w/20 Tons,
Class III Channel Lining (D=2', T=2')

CONSTRUCT ENTRANCES RIGHT				
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT	
127+00	20'	29 S.Y.	29 S.Y. ASPH	
128+14	20'	29 S.Y.	29 S.Y. ASPH	
129+18	16'	40 S.Y.	126 S.Y. ASPH	
129+98	•24'	49 S.Y.	93 S.Y. ASPH	

•Requires Detectable Warnings

Rt. Sta. 125+00 to Sta. 130+00 Const.
350 L.F. Std. Curb & Gutter Mod
& 210 S.Y. of 4' Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 189 S.Y. Sod

STA. 125+00 TO 130+00

0' 20' 40' 80'

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: Esjones DATE PLOTTED: November 28, 2012 | FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R02900PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R29

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
125+50-126+25	Spcl "V"	E.C.Blk	1.0'	42 S.Y.

CONSTRUCT ENTRANCES LEFT			
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
129+22	•30'	56 S.Y.	62 S.Y. ASPH

•Requires Detectable Warnings

P 47

MARGARET PHELPS
TIMOTHY PHELPS (HB.)

Lt. Sta. 125+00 to Sta. 130+00 Const.
453 L.F. Std. Curb & Gutter Mod
& 259 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 220 S.Y. Sod

Lt. Sta. 128+48 Const.
1- D.B.I. Type 14

Lt. Sta. 128+50 Const.
Junction Box #3 (Tie to
Inlet end of exist 18" CMP)

P-47
Tract B
(A) N21°03'13" W.21.75'
(B) N69°08'28" E.8.83'
(C) S32°36'36" E.22.15'
(D) S68°53'24" W.13.27'

TYLER ST.
Exist R/W
CONCRETE ENTRANCE
15" CMP
18" CMP
GRAVEL ENTRANCE
PI 125+67.63
•POST
Arc = 210.09'
Chord = 208.00' N 54°51'03" E
Radius = 430.00'
S44°05'10"E.25.45
Proposed R/W
N71°13'42"E Spcl "V" Ditch
Exist & Proposed R/W
1-TVC, 3-TELE
+94.39
54.01'
S68°53'24"W. 143.62'
S68°53'24" W. 8.80'
Inv. 452.77
8.33:1 Taper
Begin Taper
End Taper +93'
GM
WM
Arc = 187.30'
Chord = 185.31' N 54°23'16" E
Radius = 370.00'
+85.21
5.24'
Tract A
Exist R/W
•SIGN
•POST
N68°53'24"E. 134.05'
F/L 448.68
Inv. 444.18
N 71°47'28" W.33.89'
S 71°47'28" E.33.89'
18"
Proposed R/W
Arc = 255.45'
Chord=254.29' S 56°30'28" W
Radius = 775.00'
Temp Easement for Entrance & Slope Construction
Tract B
F/L 452.85
Inv. 448.35
S 66°40'09" W.18.88'
S 68°58'51" W.23.44'
S36°21'51" E.13.12'
Arc = 96.75'
Chord=96.68' S 43°25'15" W
Radius = 775.00'
Tract A
Tract B
1-TVC LINE
1-POWER & 2-TELEPHONE LINES
2-TELEPHONE LINES
P.I. STA. 125+67.63
Δ = 43°09'58.06" Rt.
Ts = 389.89'
Ls = 146.00'
Lc = 456.71'
θs = 5°13'42"
LT = 97.38'
ST = 48.71'
R = 800.00'
E = 61.51'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'
1-S-BRICK RESIDENCE
POOL
Rt. Sta. 125+50 Const.
1-C.B.I. Type A
(6,2) (H=4.50')
Rt. Sta. 127+50 Const.
1-C.B.I. Type A
(4,2) (H=4.50')
P 45
JAMES ALLEN MINTON
P 46
JAMES C.DOSSEY
JANICE F.DOSSEY (WF.)
CS 127+80.46
126+00
127+00
128+00
129+00
130+00
MATCH LINE 125+00
MATCH LINE 130+00

CONSTRUCT ENTRANCES RIGHT				
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT	
127+00	20'	29 S.Y.	29 S.Y. ASPH	
128+14	20'	29 S.Y.	29 S.Y. ASPH	
129+18	16'	40 S.Y.	126 S.Y. ASPH	
129+98	•24'	49 S.Y.	93 S.Y. ASPH	

•Requires Detectable Warnings

Rt. Sta. 125+00 to Sta. 130+00 Const.
350 L.F. Std. Curb & Gutter Mod
& 210 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 189 S.Y. Sod

P 66
TONY FLENER

1-TVC, 1-TELEPHONE, 4-POWER LINES
PP
TP
TVC
P 51
HOUSING AUTHORITY OF MORGANTOWN
Lt. Sta. 128+50 to Sta. 129+92
Const. 210 S.Y. Paving Area
1 REVISED 11-27-12
Lt. Sta. 128+50 to Sta. 129+07
Const. 62 L.F. Std. Header Curb
Lt. Sta. 129+37 to Sta. 129+92
Const. 57 L.F. Std. Header Curb
Lt. Sta. 129+75 Const.
1-C.B.I. Type A
(6,2) (H=7.10')
Lt. Sta. 129+20 Const.
1-D.B.I. Type II (tie to
℄ of Exist 24" BCCMP
Do Not Disturb
T/G 456.7
Inv 453.94
DENSE VEGETATION
T/G 455.00
Inv. 452.85
Tract A
Proposed R/W
Tract B
N32°36'36"W.22.15'
N69°33'51" E.121.3'
Proposed R/W
S24°00'08" E.121.59'
N18°50'18" W.127.72'
N 71°12'36" E.20.07'
N68°53'24"E. 59.65
Exist & Proposed R/W
18" CMP (Do Not Disturb)
1-S-METAL SIDED BUSINESS (CARIBBEAN COIN LAUNDRY)
PAVED PARKING
P 49
BARRY W.EMBRY
MELISSA J.EMBRY
T/G 453.8
Inv. 451.00±
Temp Easement for Entrance & Slope Construction
Proposed R/W
1-S-FRAME BUSINESS (RADIO SHACK)
FRAME SHED
S18°46'18" E.11.91'
Tract C
S69°22'00" W.80.64'
Proposed Paving Area
Exist & Proposed R/W
Proposed Header Curb
Cap Exist. D.B.I.
Inv 450.96
18" PVC (Do Not Disturb)
F/L 454.39
Inv. 447.29
N71°13'42"E
GRAVEL ENTRANCE Inv 447.32
N68°53'24"E, 44.60
N69°24'29"E. 171.80
Exist R/W
Tract A
F/L 454.20
Inv. 446.86
S71°13'42" W.134.98'
GRAVEL ENTRANCE
Tract B
2-S-BLOCK & FRAME APT. BUILDING
(YARD SALE PALACE)
P 48
ANTHONY B.FLENER
(SINGLE)
S36°17'47" E.105.85'
N36°17'47"W.105.85'
ST 129+26.46
T/R 450.00
Inv. 438.50
S20°46'11" E.86.05'
O.E. 441.04
O.E. 438.04
S71°13'42"W.8.63'
Temp Easement for Bldg Removal
Temp Easement for Entrance & Slope Construction
S71°13'42" W.9.37'
N34°04'48" W.89.16'
P 50
OTTO RONE
DORIS RONE (WF.)
P 50XI
(EXCESS PURCHASE)
Rt. Sta. 129+60 Const.
1-C.B.I. Type A
(6,2) (H=8.34')
Rt. Sta. 129+60 Const.
Manhole Type 'B' (H=11.5')
Rt. Sta. 129+59 Const.
4' F.B. Outlet Ditch w/20 Tons,
Class III Channel Lining (D=2', T=2')

0' 20' 40' 80'

STA. 125+00 TO 130+00

MicroStation v8.11.7.443
E-SHEET NAME:
USER: Esjones
DATE PLOTTED: November 27, 2012
FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R02900PL.DGN

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R30

Earthwork Quantities
Sta. 125+00 to Sta. 130+00

Str Exc	=	*0*
Com	=	*2372*
Emb	=	*231*

OVERHEAD UTILITY
ELEV. = 472.5

OVERHEAD UTILITY
ELEV. = 474.8

OVERHEAD UTILITY
ELEV. = 474.5

Rt. Sta. 125+50 Const. 1-C.B.I. Type A (6.2) (H=4.50)

VPI 126+00.00
Elev 453.09

Spcl. V Dt. Lt.

2.52%

2.8%

Rt. F/L 448.68

126+25
452.87

126+00
452.24

125+50
451.20

MATCH LINE 125+00

Rt. Sta. 127+50 Const. 1-C.B.I. Type A (4.2) (H=4.50)

Rt. F/L 452.85

PVT 127+50.00
Elev 453.78

So= 2.183%

Rt. Inv. 448.35

Const. 191 L.F. 15"
Storm Sewer Pipe

So=4.891%

Rt. Inv. 444.18

V.C.= 300.00'
NPSD = 371'

Rt. Sta. 129+60 Const. 1-C.B.I. Type A (6.2) (H=8.34)

Lt. Sta. 129+75 Const. 1-C.B.I. Type A (6.2) (H=7.10)

Rt. F/L 454.20

Lt. F/L 454.39

MATCH LINE 130+00

EX 24" BCCMP
(Do Not Remove)

So=0.500%

Rt. Inv. 445.86

Lt. Inv. 447.29

Const. 41 L.F. 18"
Storm Sewer Pipe
So=3.488%

8"
4"
2"
0"

0' 20' 40' 80'

447.6 / 447.55	450.5 / 449.61	453.0 / 451.26	455.2 / 452.51	456.2 / 453.35	456.0 / 453.78	455.3 / 454.01	454.2 / 454.24	453.8 / 454.47	453.7 / 454.70	454.1 / 454.93
125+00	125+50	126+00	126+50	127+00	127+50	128+00	128+50	129+00	129+50	130+00

STA. 125+00 TO STA. 130+00

DATUM 472 470 468 466 464 462 460 458 456 454 452 450 448 446 444 442 440 438 436 434

FILE NAME: G:\KY\BUTLER\US 23\3 LANES\PLAN SET\R03000PR.DGN
USER: Esjones
DATE PLOTTED: November 28, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R30

1 REVISED 11-27-12

Earthwork Quantities
Sta. 125+00 to Sta. 130+00

Str Exc	=	0
Com	=	2372
Emb	=	231

OVERHEAD UTILITY
ELEV. = 472.5

OVERHEAD UTILITY
ELEV. = 474.8

OVERHEAD UTILITY
ELEV. = 474.5

Rt. Sta. 125+50 Const. 1-C.B.I. Type A (6.2) (H=4.50)

VPI 126+00.00
Elev 453.09

Spcl. V Dt. Lt.

2.5%

2.8%

126+25
452.87

126+00
452.24

125+50
451.20

Rt. F/L 448.68

MATCH LINE 125+00

Rt. Sta. 127+50 Const. 1-C.B.I. Type A (4.2) (H=4.50)

Rt. F/L 452.85

PVT 127+50.00
Elev 453.78

Rt. Inv. 448.35

So= 2.183%

Const. 191 L.F. 15"
Storm Sewer Pipe

So=4.89%

Rt. Inv. 444.18

V.C.= 300.00'
NPSD = 371'

Rt. Sta. 129+60 Const. 1-C.B.I. Type A (6.2) (H=8.34)

Lt. Sta. 129+75 Const. 1-C.B.I. Type A (6.2) (H=7.10)

Rt. F/L 454.20

Lt. F/L 454.39

MATCH LINE 130+00

EX 24" BCCMP
(Do Not Remove)

Rt. Inv. 445.86

So=0.500%

Lt. Inv. 447.29

Const. 41 L.F. 18"
Storm Sewer Pipe
So=3.488%

0' 2' 4' 8'

0' 20' 40' 80'

447.6 447.55	450.5 449.61	453.0 451.26	455.2 452.51	456.2 453.35	456.0 453.78	455.3 454.01	454.2 454.24	453.8 454.47	453.7 454.70	454.1 454.93
125+00	125+50	126+00	126+50	127+00	127+50	128+00	128+50	129+00	129+50	130+00

STA. 125+00 TO STA. 130+00

FILE NAME: G:\KY\BUTLER\US 23\3 LANES\PLAN SET\R03000PR.DGN
USER: Esjones
DATE PLOTTED: November 27, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R31

Begin
Charles Black Drive
Sta. 29+29.24

CHARLES BLACK DR.

CONST 34 LF
EDGE KEY

Temp Easement for Entrance Construction

POB 29+19.24

Tract C

Reconstruct 25 L.F. D.B.I.
Type 12A & Tie to Existing
18" Pipe

Sta. 130+33.90 US 231=
Charles Black Drive
Sta. 30+00.00

Const Sidewalk
Ramps Type I

Adjust M.H.

HOUSING AUTHORITY OF MORGANTOWN

2-S-BRICK & FRAME APARTMENTS

Lt. Sta. 130+75 Const.
1-C.B.I. Type A
(6,2) (H=6.95')

Lt. Sta. 131+60 Const.
1-C.B.I. Type A
(4,2) (H=4.5')

Lt. Sta. 132+50 Const.
1-C.B.I. Type A
(4,2) (H=4.0')

Lt. Sta. 130+50 to Sta. 133+00 Const
300 S.Y. Sod on outslope

PAVED PARKING

BARLOW DR.

HUF-INGRAM HOUSING AUTH.

Exist. Curb

Exist. & Proposed R/W

Sodded Area

F/L 454.73
Inv. 447.78

F/L 455.12
Inv. 450.62

US 231

F/L 455.33
Inv. 451.33

F/L 456.27
Inv. 450.27

I.E. 454.08

MATCH LINE 130+00

MATCH LINE 135+00

BLACKTOP PARKING

Tract A

Tract B

GRAVEL PARKING

GRAVEL ENTRANCE

Proposed R/W

Temp Easement for Entrance & Slope Construction

Temp Easement for Slope Construction

1-S-STONE BUSINESS
(RONE'S TRUCKING)

1-S-BLOCK BUSINESS

1-S-CONC. BLOCK BUSINESS
(MORGANTOWN FREIGHT INC.)

METAL SIDED BUILDING
METAL-SIDED BUILDING

1-S-CONC. BLK.

1-S-FRAME

BLACKTOP ENTRANCE

P 50
OTTO RONE
DORIS RONE (WF.)

P 50XI
(EXCESS PURCHASE)

P 51
HOUSING AUTHORITY OF MORGANTOWN

P 52
MICHAEL RONE
SALLY RONE

P 53
SAM MOORE
HELEN MOORE

P 54
ASHLEY AND HOWARD, INC.

P 56
RONE EQUIPMENT SERVICES, INC.

P 56XI
(EXCESS PURCHASE)

P.I. STA. 135+58.27
Δ = 32°49'53.92" Lt.
Ts = 419.21'
Ls = 131.00'
Lc = 556.62'
θs = 3°07'39"
LT = 87.35'
ST = 43.68'
R = 1200.00'
E = 51.62'
e = 3.6%
Runoff = 131.00'
Runout = 72.78'

Lt. Sta. 134+00 Const.
1-C.B.I. Type A
(6,2) (H=6.0')

Lt. Sta. 130+00 to Sta. 135+00 Const.
446 L.F. Std. Curb & Gutter Mod
& 245 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 205 S.Y. Sod

Rt. Sta. 130+00 to Sta. 135+00 Const.
434 L.F. Std. Curb & Gutter Mod
& 244 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 202 S.Y. Sod

CONSTRUCT ENTRANCES RIGHT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
131+68	30'	56 S.Y.	243 S.Y. ASPH

0' 20' 40' 80'

STA. 130+00 TO 135+00

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R0310OPL.DGN
USER: EsJones
DATE PLOTTED: November 28, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R31

1 REVISED 11-27-12

Begin Charles Black Drive Sta. 29+29.24

CONST 34 LF EDGE KEY

Temp Easement for Entrance Construction

POB 29+19.24

Tract C

Reconstruct 25 L.F. D.B.I. Type 12A & Tie to Existing 18" Pipe

Sta. 130+33.90 US 231= Charles Black Drive Sta. 30+00.00

CHARLES BLACK DR.

HOUSING AUTHORITY OF MORGANTOWN

2-S-BRICK & FRAME APARTMENTS

Lt. Sta. 130+75 Const. 1-C.B.I. Type A (6,2) (H=6.95')

Lt. Sta. 131+60 Const. 1-C.B.I. Type A (4,2) (H=4.5')

Lt. Sta. 132+50 Const. 1-C.B.I. Type A (4,2) (H=4.0')

Lt. Sta. 130+50 to Sta. 133+00 Const 300 S.Y. Sod on outslope

PAVED PARKING

BARLOW DR.

Exist. Curb

Exist. & Proposed R/W

Sodded Area

Const Sidewalk Ramps Type I

Adjust M.H.

BLACKTOP PARKING

Tract A

Tract B

GRAVEL PARKING

Lt. Sta. 130+00 to Sta. 135+00 Const. 446 L.F. Std. Curb & Gutter Mod & 245 S.Y. of 4" Conc. Sidewalk with 20 S.F. Detectable Warnings & 205 S.Y. Sod

ASHLEY AND HOWARD, INC.

P.I. STA. 135+58.27
Δ = 32°49'53.92" Lt.
Ts = 419.21'
Ls = 131.00'
Lc = 556.62'
θs = 3°07'39"
LT = 87.35'
ST = 43.68'
R = 1200.00'
E = 51.62'
e = 3.6%
Runoff = 131.00'
Runout = 72.78'

Lt. Sta. 134+00 Const. 1-C.B.I. Type A (6,2) (H=6.0')

DENSE VEGETATION

1-S-FRAME

BLACKTOP ENTRANCE

1-TVC, 1-POWER

1-TVC, 2-EL, 3-TELE

Temp Easement for Slope Construction

Tract A

Exist & Proposed R/W

MATCH LINE 130+00

MATCH LINE 135+00

1-S-STONE BUSINESS (RONE'S TRUCKING)

1-S-BLOCK BUSINESS

1-S-CONC. BLOCK BUSINESS (MORGANTOWN FREIGHT INC.)

GRAVEL ENTRANCE

Temp Easement for Entrance & Slope Construction

Arc = 213.64'
Chord = 213.00' S 63°14'08" W
Radius = 797.36'

Arc = 191.76'
Chord = 191.34' N 62°51'22" E
Radius = 830.00'

Arc = 220.35'
Chord=220.05' S 62°57'52" W
Radius = 1229.00'

Arc = 25.38'
Chord=25.38' S 57°14'11" W
Radius = 1229.00'

N 24°40'36" E, 28.86'

S 24°40'36" W, 28.86'

N69°28'29"E, 233.87

N69°24'29"E, 171.80

N69°28'29"E, 168.97

S18°46'18"E

N71°13'42"E

S71°13'42"W, 134.98'

S71°13'42"W, 39.09'

S20°54'52"E, 20.41'

N20°54'52"W, 20.41'

S 7°00'07"W, 61.27'

S19°06'07"E, 23.24'

N19°06'07"W, 23.24'

S69°28'22"W, 67.93'

S 69°28'22" W, 3.38'

F/L 454.73
Inv. 447.78

F/L 455.12
Inv. 450.62

US 231

F/L 455.33
Inv. 451.33

F/L 456.27
Inv. 450.27

I.E. 454.08

P 50 OTTO RONE DORIS RONE (WF.)

P 50XI (EXCESS PURCHASE)

P 51

P 52 MICHAEL RONE SALLY RONE

P 53 SAM MOORE HELEN MOORE

P 54

P 56 RONE EQUIPMENT SERVICES, INC.

P 56XI (EXCESS PURCHASE)

METAL SIDED BUILDING METAL-SIDED BUILDING

1-S-CONC. BLK.

Rt. Sta. 130+00 to Sta. 135+00 Const. 434 L.F. Std. Curb & Gutter Mod & 244 S.Y. of 4" Conc. Sidewalk with 20 S.F. Detectable Warnings & 202 S.Y. Sod

CONSTRUCT ENTRANCES RIGHT

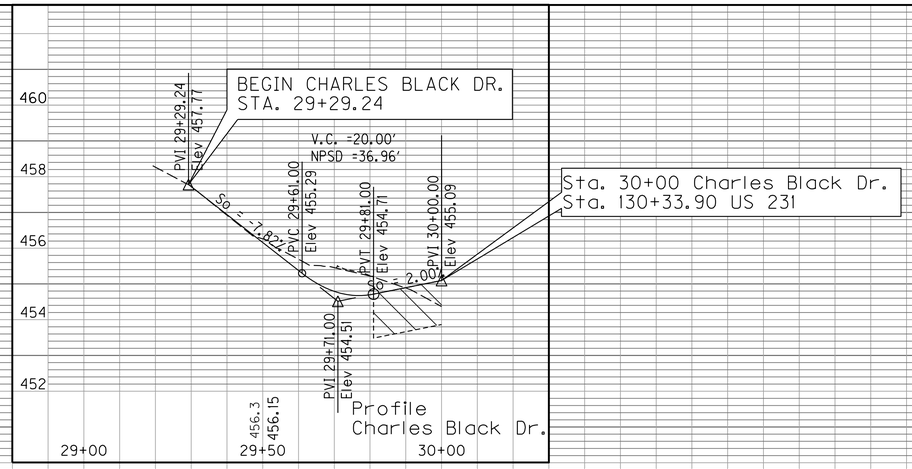
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
131+68	30'	56 S.Y.	243 S.Y. ASPH

0' 20' 40' 80'

STA. 130+00 TO 135+00

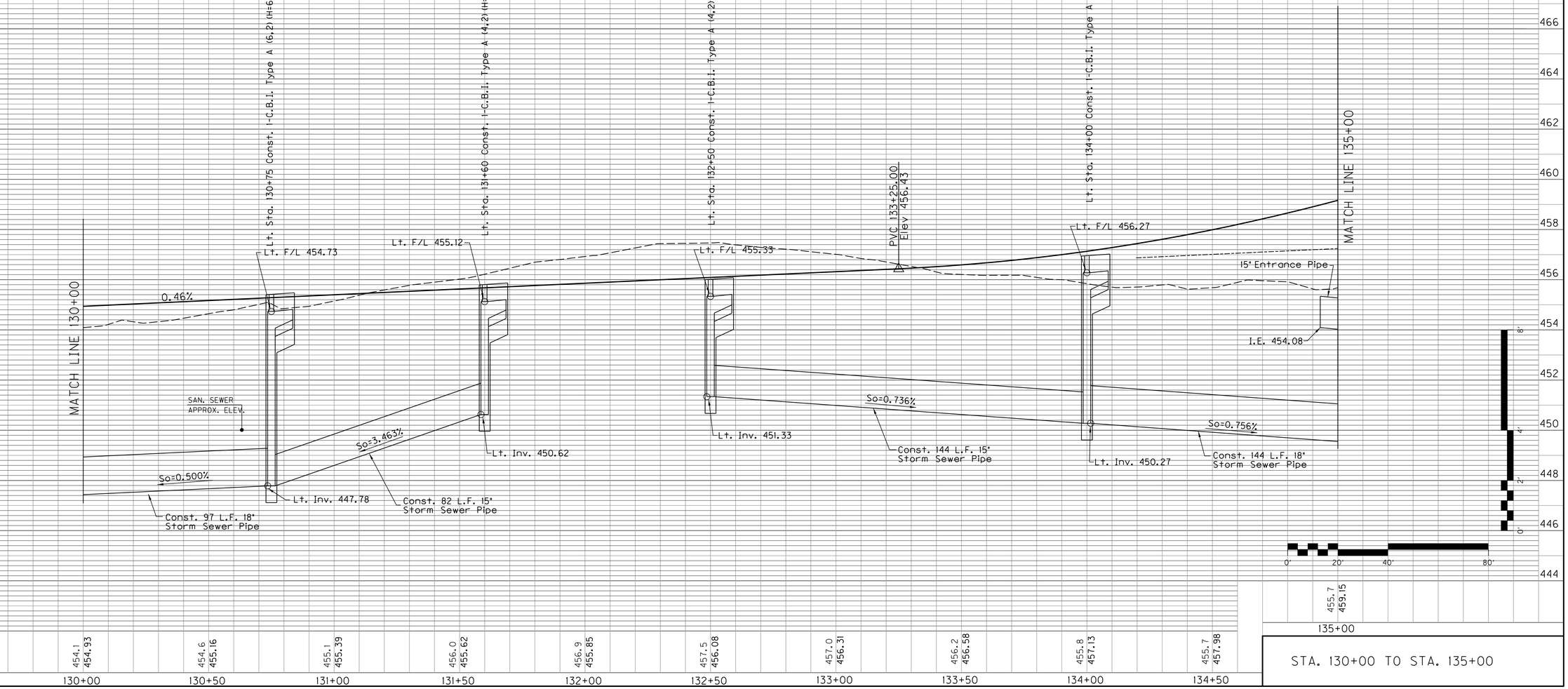
FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R0300PL.DGN
USER: EsJones
DATE PLOTTED: November 27, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R32



Earthwork Quantities
Sta.130+00 to Sta.135+00

Str Exc	=	0
Com	=	1309
Emb	=	998



STA. 130+00 TO STA. 135+00

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R32

1 REVISED 11-27-12

BEGIN CHARLES BLACK DR.
STA. 29+29.24

PVI 29+29.24
Elev 457.77

V.C. =20.00'
NPSD =36.96'

Sta. 30+00 Charles Black Dr.
Sta. 130+33.90 US 231

PVC 29+61.00
Elev 455.29

PVT 29+81.00
Elev 454.71

PVI 30+00.00
Elev 455.09

PVI 29+71.00
Elev 454.51

Profile
Charles Black Dr.

29+00 29+50 30+00

456.3
456.15

Earthwork Quantities
Sta.130+00 to Sta.135+00

Str Exc	=	*0*
Com	=	*1309*
Emb	=	*998*

MATCH LINE 130+00

Lt. Sta. 130+75 Const. 1-C.B.I. Type A (6.2) (H=6.95)

Lt. F/L 454.73

Lt. Sta. 131+60 Const. 1-C.B.I. Type A (4.2) (H=4.50)

Lt. F/L 455.12

Lt. Sta. 132+50 Const. 1-C.B.I. Type A (4.2) (H=4.00)

Lt. F/L 455.33

PVC 133+25.00
Elev 456.43

Lt. Sta. 134+00 Const. 1-C.B.I. Type A (6.2) (H=6.00)

Lt. F/L 456.27

MATCH LINE 135+00

15" Entrance Pipe

I.E. 454.08

0.46%

SAN. SEWER
APPROX. ELEV.

So=0.500%

Const. 97 L.F. 18"
Storm Sewer Pipe

Lt. Inv. 447.78

So=3.463%

Const. 82 L.F. 15"
Storm Sewer Pipe

Lt. Inv. 450.62

So=0.736%

Lt. Inv. 451.33

Const. 144 L.F. 15"
Storm Sewer Pipe

So=0.756%

Lt. Inv. 450.27

Const. 144 L.F. 18"
Storm Sewer Pipe

0' 20' 40' 80'

0' 2' 4' 8'

454.1 454.93 | 454.6 455.16 | 455.1 455.39 | 456.0 455.62 | 456.9 455.85 | 457.5 456.08 | 457.0 456.31 | 456.2 456.58 | 455.8 457.13 | 455.7 457.98

130+00 130+50 131+00 131+50 132+00 132+50 133+00 133+50 134+00 134+50

455.7 459.15

135+00

STA. 130+00 TO STA. 135+00

DATUM 480 478 476 474 472 470 468 466 464 462 460 458 456 454 452 450 448 446 444 442

FILE NAME: G:\KY\BUTLER\US 23\13 LANES\PLAN SET\R03200PR.DGN
USER: Esjones
DATE PLOTTED: November 27, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R80

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-112+25	Spcl "V"	E.C. Blk	2.0	146 S.Y.
114+75-115+00	Spcl "V"	E.C. Blk	1.0	23 S.Y.

Lt. Sta. 110+00 to Sta. 115+00 Const.
446 L.F. Std. Curb & Gutter Mod
& 254 S.Y. of 4" Conc. Sidewalk
& 221 S.Y. Sod

CONSTRUCT ENTRANCES LEFT				
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT	ENTRANCE PIPE
110+31	16'	40 S.Y.	12 TON TBB	36 L.F. -15°
111+67	16'	25 S.Y.	10 TON TBB	36 L.F. -15°

Lt. Sta. 111+27 Const.
1-C.B.I. Type A
(4,2) (H=4.0')

Lt. Sta. 113+70 Const.
1-Manhole Type A
(H=7.85')

Lt. Sta. 114+50 Const.
1-Manhole Type A
(H=7.75')

P 35
BOBBY GENE MCGUYER
TESTAMENTARY TRUST A

P 34
BRAD WILLIAMS

111+00 112+00 113+00 114+00 115+00

MATCH LINE 110+00

MATCH LINE 115+00

US 231

415 410

Temp Easement for Entrance & Slope Construction

Proposed R/W

Exist. & Proposed R/W

Tract B

Tract E

Tract A

N15°08'W, 50.33'

N11°53'17"W, 200.06'

N19°08'26"E, 54.30'

S10°24'55"E, 326.83'

N9°19'13"W

S88°04'43"E, 26.00'

Top of 6" PVC El 411.52

P&M ELEC.(SIGN)

Billboard Sign

T/R 415.74
Inv. 407.89

T/R 416.77
Inv. 409.02

PP

I.E. 408.79

I.E. 409.66

O.E. 408.43

O.E. 409.38

O.E. 407.41

Spcl "V" Ditch

18" CMP (Remove)

18" RCP (Remove)

DDA 40

DDA 41

DDA 42

DDA 43

DDA 39

Disturbed Limits for Diversion No. 1

F/L 415.52
Inv. 411.52

F/L 415.28
Inv. 410.78

F/L 415.67
Inv. 408.67

F/L 413.53
Inv. 407.53

F/L 413.65
Inv. 408.65

Exist Guardrail (Remove) (113 L.F.)

Exist Guardrail (Remove) (113 L.F.)

Arc = 15.00'
Chord = 15.0' S 10°20'16" E
Radius = 2932.18'

Arc = 292.35'
Chord = 289.65' N 02°46'48" E
Radius = 619.69'

Arc = 121.59'
Chord = 121.37' S14°25'17" W
Radius = 580.00'

Arc = 118.77'
Chord = 118.59' S 04°23'30" E
Radius = 634.59'

Arc = 94.81'
Chord = 94.71' N3°43'57" E
Radius = 580.00'

Arc = 138.26'
Chord = 138.04' S 7°34'18" W
Radius = 701.00'

P.I. 115+04.13

Temp Easement for Slope Construction

Proposed R/W

Spcl "V" Ditch

4' F.B. Ditch

Temp Easement for Slope Construction

TS 111+83.77

SC 113+29.77

CULTIVATED

Rt. Sta. 111+50 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

Rt. Sta. 113+26 Const.
1-C.B.I. Type A
(6,2) (H=5.0')

Rt. Sta. 113+70 Const.
1-C.B.I. Type A
(5i,6) (H=6.00')

Rt. Sta. 113+55 Const.
1-42" Pipe Culvert Headwall

Rt. Sta. 114+26 Const.
1-C.B.I. Type A
(16,2) (H=5.0')

Rt. Sta. 113+55 to 113+70 Const.
4' F.B. Outlet Ditch w/36 Tons,
Class III Channel Lining (D=2",T=2')

P 28
JOHNNY ROSE,IV (SINGLE)
PHILLIP ROSE
REBECCA ROSE (WF.)

P.I. STA. 115+04.13
Δ = 37°22'56.56" Rt.
Ts = 320.35'
Ls = 146.00'
Lc = 330.29'
θs = 5°43'47"
LT = 97.38'
ST = 48.71'
R = 730.00'
E = 41.93'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'

Rt. Sta. 110+00 to Sta. 115+00 Const.
450 L.F. Std. Curb & Gutter Mod
& 271 S.Y. of 4" Conc. Sidewalk
& 228 S.Y. Sod

DITCH CONSTRUCTION Rt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-113+50	4' F.B.	E.C. Blk	3.0'	675 S.Y.

DISTURBED DRAINAGE AREAS				
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)	POINT DISCHARGE	
			Latitude	Longitude
DDA 41	0.05	180		
DDA 42	0.12	432		
DDA 43	0.62	2232		

0' 20' 40' 80'

EROSION CONTROL PLAN
STA. 110+00 TO 115+00

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R080000EC.DGN
USER: EsJones
DATE PLOTTED: November 28, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R80

1 REVISED 11-27-12

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-112+25	Spcl "V"	E.C. Blk	2.0	146 S.Y.
114+75-115+00	Spcl "V"	E.C. Blk	1.0	23 S.Y.

Lt. Sta. 110+00 to Sta. 115+00 Const.
446 L.F. Std. Curb & Gutter Mod
& 254 S.Y. of 4" Conc. Sidewalk
& 221 S.Y. Sod

CONSTRUCT ENTRANCES LEFT				
STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT	ENTRANCE PIPE
110+31	16'	40 S.Y.	12 TON TBB	36 L.F. -15°
111+67	16'	25 S.Y.	10 TON TBB	36 L.F. -15°

Lt. Sta. 111+27 Const.
1-C.B.I. Type A
(4,2) (H=4.0')

P 34 BRAD WILLIAMS

P 35 BOBBY GENE MCGUYER TESTAMENTARY TRUST A

Lt. Sta. 113+70 Const.
1-Manhole Type A
(H=7.85')

Lt. Sta. 114+50 Const.
1-Manhole Type A
(H=7.75')

T/R 415.74
Inv. 407.89

I/R 416.77
Inv. 409.02

Billboard Sign

Arc = 118.77'
Chord = 118.59' S 04°23'30" E
Radius = 634.59'

Chord = 94.71' N3°43'57" E
Arc = 94.81'
Radius = 580.00'

Top of 6" PVC
El 411.52

Temp Easement for Entrance & Slope Construction

Tract B

Tract A

Proposed R/W

Exist. & Proposed R/W

N15°08'W.50.33'

N11°53'17"W.200.06'

N11°08'26"E.54.30'

I.E. 408.79

I.E. 409.66

O.E. 409.38

O.E. 408.43

Spcl "V" Ditch

18" CMP (Remove)

18" RCP (Remove)

DDA 40

DDA 41

DDA 42

DDA 43

DDA 39

Disturbed Limits for Diversion No. 1

Exist Guardrail (Remove) (113 L.F.)

Exist Guardrail (Remove) (113 L.F.)

US 231

N9°19'13"W

F/L 415.52
Inv. 411.52

F/L 415.28
Inv. 410.78

F/L 415.67
Inv. 408.67

F/L 413.53
Inv. 407.53

F/L 413.65
Inv. 408.65

O.E. 407.41

Arc = 15.00'
Chord = 15.0' S 10°20'16" E
Radius = 2932.18'

Arc = 292.35'
Chord = 289.65' N 02°46'48" E
Radius = 619.69'

Arc = 121.59'
Chord = 121.37' S14°25'17" W
Radius = 580.00'

S10°24'55"E.326.83'

S10°24'55" W 1087.44'

S88°04'43"E.26.00'

Arc = 138.26'
Chord = 138.04' S 7°34'18" W
Radius = 701.00'

4' F.B. Ditch

Tract E

Proposed R/W

Temp Easement for Slope Construction

Temp Easement for Slope Construction

Proposed R/W

Temp Easement for Slope Construction

Proposed R/W

Spcl "V" Ditch

P.I. 115+04.13

N9°19'13"W

MATCH LINE 110+00

MATCH LINE 115+00

111+00

112+00

113+00

114+00

115+00

TS 111+83.77

SC 113+29.77

Rt. Sta. 113+70 Const.
1-C.B.I. Type A
(5i,6) (H=6.00')

Rt. Sta. 113+26 Const.
1-C.B.I. Type A
(6,2) (H=5.0')

Rt. Sta. 113+55 Const.
1-42" Pipe Culvert Headwall

Rt. Sta. 114+26 Const.
1-C.B.I. Type A
(16,2) (H=5.0')

Rt. Sta. 111+50 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

CULTIVATED

CULTIVATED

P 28 JOHNNY ROSE,IV (SINGLE)
PHILLIP ROSE
REBECCA ROSE (WF.)

P.I. STA. 115+04.13
Δ = 37°22'56.56" Rt.
Ts = 320.35'
Ls = 146.00'
Lc = 330.29'
θs = 5°43'47"
LT = 97.38'
ST = 48.71'
R = 730.00'
E = 41.93'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'

Rt. Sta. 113+55 to 113+70 Const.
4' F.B. Outlet Ditch w/36 Tons,
Class III Channel Lining (D=2',T=2')

Rt. Sta. 110+00 to Sta. 115+00 Const.
450 L.F. Std. Curb & Gutter Mod
& 271 S.Y. of 4" Conc. Sidewalk
& 228 S.Y. Sod

DITCH CONSTRUCTION Rt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
110+00-113+50	4' F.B.	E.C. Blk	3.0'	675 S.Y.

DISTURBED DRAINAGE AREAS				
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)	POINT DISCHARGE	
			Latitude	Longitude
DDA 41	0.05	180		
DDA 42	0.12	432		
DDA 43	0.62	2232		

0' 20' 40' 80'

EROSION CONTROL PLAN
STA. 110+00 TO 115+00

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R080DEC.DGN
USER: EsJones
DATE PLOTTED: November 27, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R81

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
115+00-116+25	Spcl "V"	E.C. Blk	1.0'	124 S.Y.
116+40-116+60	Spcl "V"	Class II	2.0'	37 Ton
116+95-117+30	Spcl "V"	E.C. Blk	1.0'	60 S.Y.

CONSTRUCT ENTRANCES LEFT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
116+64	•30'	40 S.Y.	121 S.Y. ASPH
117+49	•26'	36 S.Y.	34 S.Y. CONC.
118+37	•26'	36 S.Y.	59 S.Y. CONC.

•Requires Detectable Warnings

Lt. Sta. 115+00 to Sta. 120+00 Const.
390 L.F. Std. Curb & Gutter Mod
& 228 S.Y. of 4" Conc. Sidewalk
with 60 S.F. Detectable Warnings
& 195 S.Y. Sod

Lt. Sta. 116+40 Const. 1-DBI Type 1 & 1-Junction Box "11

Lt. Sta. 117+36 to Sta. 117+62 Const. 26 L.F. D.B.I. Type 12A

Lt. Sta. 117+38 Const. 1-Junction Box "11

Lt. Sta. 118+24 to Sta. 118+50 Const. 26 L.F. D.B.I. Type 12A

Lt. Sta. 118+25 Const. 1-Junction Box "11

Lt. Sta. 118+80 Const. 1-C.B.I. Type A (24,2) (H=8.70')

Lt. Sta. 119+92 Const. 1-C.B.I. Type A (24,2) (H=5.0')

P 35 — BOBBY GENE MCGUYER TESTAMENTARY TRUST A

P 37 — DAVID BRUCE MINTON, REBECCA MINTON

P 38 — HOUCHENS PROPERTIES, INC.

P 40 — BOBBY MCGUYER, BARBARA MCGUYER

P 68 — RANDALL BRATCHER, PAM BRATCHER

P 69 — CHAD JOHNSON

P 39 — DAVID MINTON, REBECCA MINTON (WF.)

1-S-FRAME BUSINESS (SONIC)

CONCRETE PARKING

CONCRETE ENTRANCE — DO NOT DISTURB

GRAVEL ENTRANCE

DENSE VEGETATION

Do Not Remove

Do Not Disturb

Spcl "V" Ditch

Proposed R/W

Temp Easement for Entrance & Slope Construction

Tract A

Tract B

Tract E

DDA 42

DDA 43

DDA 44

DDA 45

DDA 46

Disturbed Limits for Pavement Widening

24" STEEL PIPE (Remove)

18" RCP (Remove)

24" CMP (Remove)

15" CMP (Remove)

Exist R/W

Exist "V" Ditch

Temp Easement

Existing Easement For Parcel P-33

Force Main

Gravity Main

Pump Station

UTILITY CONTROL INTERFACE

WRECKER SERVICE

ACCESSIBLE FOR 426 (NMH)

MATCH LINE 115+00

MATCH LINE 120+00

CS 116+60.00

ST 118+06.06

P.I. STA. 115+04.13
Δ = 37°22'56.56" Rt.
Ts = 320.35'
Ls = 146.00'
Lc = 330.29'
θs = 5°43'47"
LT = 97.38'
ST = 48.71'
R = 730.00'
E = 41.93'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'

Rt. Sta. 115+50 Const.
1-C.B.I. Type A
(6,2) (H=4.00')

Rt. Sta. 115+00 to Sta. 120+00 Const.
213 L.F. Std. Curb & Gutter Mod
& 122 S.Y. of 4" Conc. Sidewalk
with 80 S.F. Detectable Warnings
& 137 S.Y. Sod

Rt. Sta. 117+60 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

Rt. Sta. 119+36 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)	POINT DISCHARGE Latitude	POINT DISCHARGE Longitude
DDA 44	0.25	900		
DDA 45	0.28	1008		
DDA 46	0.36	1296		

CONSTRUCT ENTRANCES RIGHT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
115+25	16'	24 S.Y.	34 S.Y. ASPH
116+16	•50'	62 S.Y.	132 S.Y. ASPH
117+25	•40'	61 S.Y.	56 S.Y. ASPH
118+96	•50'	78 S.Y.	109 S.Y. ASPH
119+82	•24'	49 S.Y.	46 S.Y. ASPH

•Requires Detectable Warnings

0' 20' 40' 80'

EROSION CONTROL PLAN
STA. 115+00 TO 120+00

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R0810OEC.DGN
USER: Esjones
DATE PLOTTED: November 28, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R81

1 REVISED 11-27-12

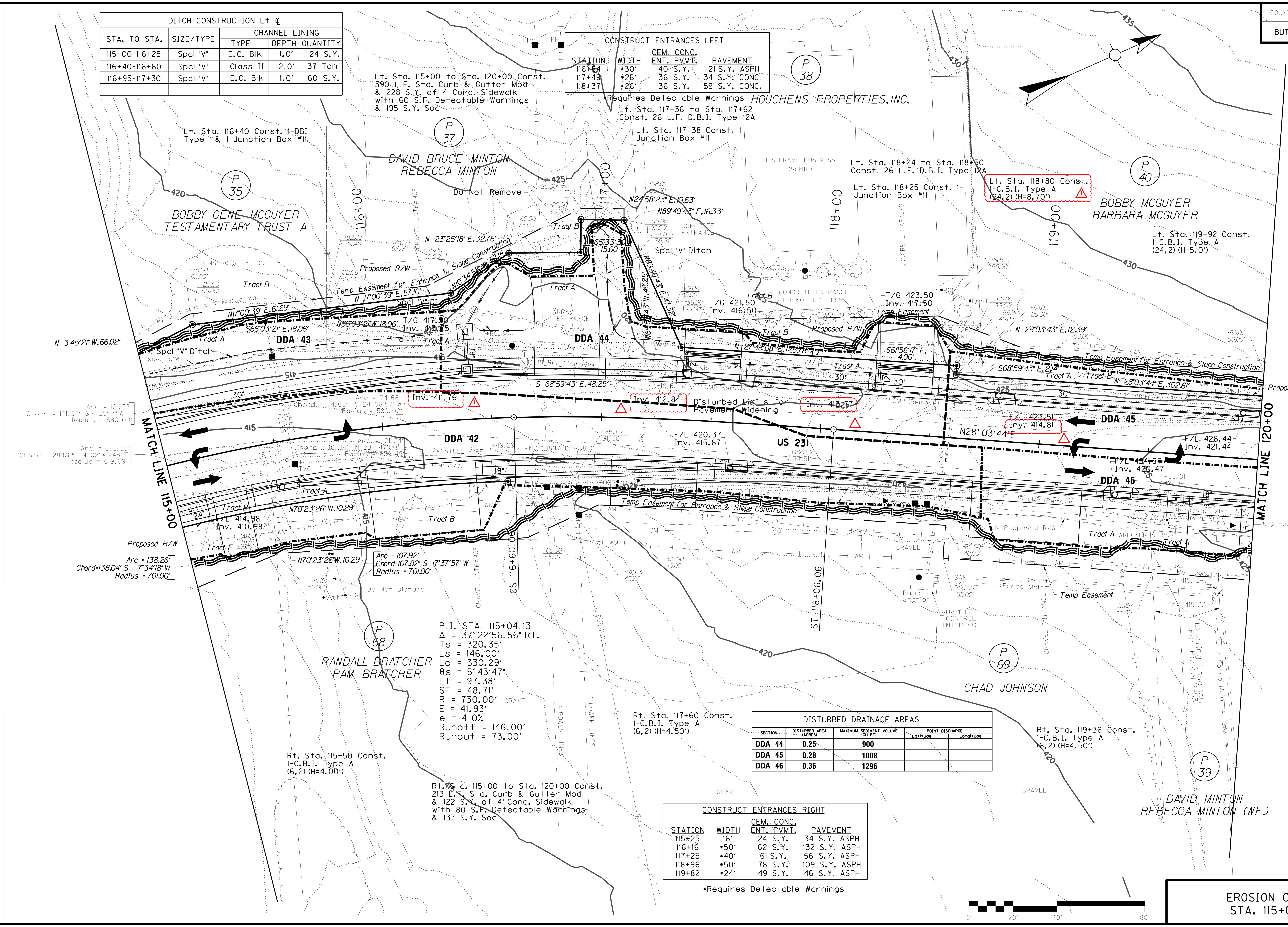
DITCH CONSTRUCTION Lt ℄

STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
115+00-116+25	Spcl "V"	E.C. Blk	1.0′	124 S.Y.
116+40-116+60	Spcl "V"	Class II	2.0′	37 Ton
116+95-117+30	Spcl "V"	E.C. Blk	1.0′	60 S.Y.

CONSTRUCT ENTRANCES LEFT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
116+84	*30′	40 S.Y.	121 S.Y. ASPH
117+49	*26′	36 S.Y.	34 S.Y. CONC.
118+37	*26′	36 S.Y.	59 S.Y. CONC.

*Requires Detectable Warnings



P.I. STA. 115+04.13
Δ = 37°22′56.56" Rt.
Ts = 320.35′
Ls = 146.00′
Lc = 330.29′
θs = 5°43′47"
LT = 97.38′
ST = 48.71′
R = 730.00′
E = 41.93′
e = 4.0%
Runoff = 146.00′
Runout = 73.00′

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)	POINT DISCHARGE	
			Latitude	Longitude
DDA 44	0.25	900		
DDA 45	0.28	1008		
DDA 46	0.36	1296		

CONSTRUCT ENTRANCES RIGHT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
115+25	16′	24 S.Y.	34 S.Y. ASPH
116+16	*50′	62 S.Y.	132 S.Y. ASPH
117+25	*40′	61 S.Y.	56 S.Y. ASPH
118+96	*50′	78 S.Y.	109 S.Y. ASPH
119+82	*24′	49 S.Y.	46 S.Y. ASPH

*Requires Detectable Warnings

EROSION CONTROL PLAN
STA. 115+00 TO 120+00

MicroStation v8.11.7.443 | E-SHEET NAME: | USER: EsJones DATE PLOTTED: November 28, 2012 | FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R08100EC.DGN

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R83

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
125+50-126+25	Spcl "V"	E.C.Blk	1.0'	42 S.Y.

CONSTRUCT ENTRANCES LEFT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
129+22	•30'	56 S.Y.	62 S.Y. ASPH

•Requires Detectable Warnings

Lt. Sta. 125+00 to Sta. 130+00 Const.
453 L.F. Std. Curb & Gutter Mod
& 259 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 220 S.Y. Sod

Lt. Sta. 128+48 Const.
1- D.B.I. Type 14

Lt. Sta. 128+50 Const.
Junction Box #3 (Tie to
Inlet end of exist 18" CMP)

Lt. Sta. 128+50 to Sta. 129+92
Const. 210 S.Y. Paving Area

Lt. Sta. 128+50 to Sta. 129+07
Const. 62 L.F. Std. Header Curb

Lt. Sta. 129+37 to Sta. 129+92
Const. 57 L.F. Std. Header Curb

Lt. Sta. 129+75 Const.
1-C.B.I. Type A
(6,2) (H=7.10')

Lt. Sta. 129+20 Const.
1-D.B.I. Type 11 (tie to
℄ of Exist 24" BCCMP

P-47
Tract B
Ⓐ N21°03'13" W, 21.75'
Ⓑ N69°08'28" E, 8.83'
Ⓒ S32°36'36" E, 22.15'
Ⓓ S68°53'24" W, 13.27'

Tract A
N32°36'36"W, 22.15'

Tract B
S24°00'08" E, 21.59'
N18°50'18" W, 12.72'
N69°33'51" E, 12.13'
S18°46'18" E, 11.91'
N 71°12'36" E, 20.07'

Tract C
S69°22'00" W, 80.64'

P.I. STA. 125+67.63
Δ = 43°09'58.06" Rt.
Ts = 389.89'
Ls = 146.00'
Lc = 456.71'
θs = 5°13'42"
LT = 97.38'
ST = 48.71'
R = 800.00'
E = 61.51'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)	POINT DISCHARGE	
			Latitude	Longitude
DDA 50	0.03	108		
DDA 51	0.51	1836		
DDA 52	0.07	252		
DDA 53	0.10	360		
DDA 54	0.51	1836	37°13'09.16"	86°41'30.19"

CONSTRUCT ENTRANCES RIGHT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
127+00	20'	29 S.Y.	29 S.Y. ASPH
128+14	20'	29 S.Y.	29 S.Y. ASPH
129+18	16'	40 S.Y.	126 S.Y. ASPH
129+98	•24'	49 S.Y.	93 S.Y. ASPH

•Requires Detectable Warnings

Rt. Sta. 125+00 to Sta. 130+00 Const.
350 L.F. Std. Curb & Gutter Mod
& 210 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 189 S.Y. Sod

Rt. Sta. 125+50 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

Rt. Sta. 127+50 Const.
1-C.B.I. Type A
(4,2) (H=4.50')

Rt. Sta. 129+60 Const.
1-C.B.I. Type A
(6,2) (H=8.34')

Rt. Sta. 129+60 Const.
Manhole Type 'B' (H=11.5')

Rt. Sta. 129+59 Const.
4' F.B. Outlet Ditch w/20 Tons,
Class III Channel Lining (D=2', T=2')

EROSION CONTROL PLAN
STA. 125+00 TO 130+00

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R83

1 REVISED 11-27-12

DITCH CONSTRUCTION Lt ℄				
STA. TO STA.	SIZE/TYPE	CHANNEL LINING		
		TYPE	DEPTH	QUANTITY
125+50-126+25	Spcl "V"	E.C.Blk	1.0'	42 S.Y.

CONSTRUCT ENTRANCES LEFT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
129+22	•30'	56 S.Y.	62 S.Y. ASPH

•Requires Detectable Warnings

Lt. Sta. 125+00 to Sta. 130+00 Const.
453 L.F. Std. Curb & Gutter Mod
& 259 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 220 S.Y. Sod

Lt. Sta. 128+48 Const.
1- D.B.I. Type 14

Lt. Sta. 128+50 Const.
Junction Box #3 (Tie to
Inlet end of exist 18" CMP)

Lt. Sta. 128+50 to Sta. 129+92
Const. 210 S.Y. Paving Area

Lt. Sta. 128+50 to Sta. 129+07
Const. 62 L.F. Std. Header Curb

Lt. Sta. 129+37 to Sta. 129+92
Const. 57 L.F. Std. Header Curb

Lt. Sta. 129+75 Const.
1-C.B.I. Type A
(6,2) (H=7.10')

Lt. Sta. 129+20 Const.
1-D.B.I. Type 11 (tie to
℄ of Exist 24" BCCMP

P-47 Tract B
Ⓐ N21°03'13"W,21.75'
Ⓑ N69°08'28"E,8.83'
Ⓒ S32°36'36"E,22.15'
Ⓓ S68°53'24"W,13.27'

Tract A
Ⓐ N69°33'51"E,12.13'
Ⓑ S24°00'08"E,21.59'
Ⓒ N18°50'18"W,9.72'
Ⓓ N32°36'36"W,22.15'

Tract B
N 7°12'36" E,20.07'
S18°46'18" E,11.91'

Tract C
S69°22'00" W,80.64'

Proposed Paving Area

Exist & Proposed R/W

Proposed Header Curb

Cap Exist. D.B.I.

Temp Easement for Entrance & Slope Construction

Temp Easement for Bldg Removal

Rt. Sta. 129+60 Const.
1-C.B.I. Type A
(6,2) (H=8.34')

Rt. Sta. 129+60 Const.
Manhole Type 'B' (H=11.5')

Rt. Sta. 129+59 Const.
4' F.B. Outlet Ditch w/20 Tons,
Class III Channel Lining (D=2', T=2')

Rt. Sta. 127+50 Const.
1-C.B.I. Type A
(4,2) (H=4.50')

Rt. Sta. 125+50 Const.
1-C.B.I. Type A
(6,2) (H=4.50')

Rt. Sta. 125+00 to Sta. 130+00 Const.
350 L.F. Std. Curb & Gutter Mod
& 210 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 189 S.Y. Sod

CONSTRUCT ENTRANCES RIGHT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
127+00	20'	29 S.Y.	29 S.Y. ASPH
128+14	20'	29 S.Y.	29 S.Y. ASPH
129+18	16'	40 S.Y.	126 S.Y. ASPH
129+98	•24'	49 S.Y.	93 S.Y. ASPH

•Requires Detectable Warnings

DISTURBED DRAINAGE AREAS				
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)	POINT DISCHARGE	
			Latitude	Longitude
DDA 50	0.03	108		
DDA 51	0.51	1836		
DDA 52	0.07	252		
DDA 53	0.10	360		
DDA 54	0.51	1836	37°13'09.16"	86°41'30.19"

P.I. STA. 125+67.63
Δ = 43°09'58.06" Rt.
Ts = 389.89'
Ls = 146.00'
Lc = 456.71'
θs = 5°13'42"
LT = 97.38'
ST = 48.71'
R = 800.00'
E = 61.51'
e = 4.0%
Runoff = 146.00'
Runout = 73.00'

HOUSING AUTHORITY OF MORGANTOWN

MARGARET PHELPS
TIMOTHY PHELPS (HB.)

BARRY W.EMBRY
MELISSA J.EMBRY
T/G 453.8
Inv. 451.00±

ANTHONY B.FLENER
(SINGLE)

OTTO RONE
DORIS RONE (WF.)

JAMES C.DOSSEY
JANICE F.DOSSEY (WF.)

JAMES ALLEN MINTON

TONY FLENER

TYLER ST.

US 23

MATCH LINE 125+00

MATCH LINE 130+00

0' 20' 40' 80'

EROSION CONTROL PLAN
STA. 125+00 TO 130+00

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R84

Begin
Charles Black Drive
Sta. 29+29.24

Reconstruct 25 L.F. D.B.I. Type 12A & Tie to Existing 18" Pipe

Sta. 130+33.90 US 231=
Charles Black Drive
Sta. 30+00.00

MATCH LINE 130+00

MATCH LINE 135+00

CHARLES BLACK DR.

HOUSING AUTHORITY OF MORGANTOWN

2-S-BRICK & FRAME APARTMENTS

Lt. Sta. 130+75 Const.
1-C.B.I. Type A
(6,2) (H=6.95')

Lt. Sta. 131+60 Const.
1-C.B.I. Type A
(4,2) (H=4.5')

Lt. Sta. 132+50 Const.
1-C.B.I. Type A
(4,2) (H=4.0')

Lt. Sta. 130+50 to Sta. 133+00 Const
300 S.Y. Sod on outslope

Lt. Sta. 130+00 to Sta. 135+00 Const.
446 L.F. Std. Curb & Gutter Mod
& 245 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 205 S.Y. Sod

ASHLEY AND HOWARD, INC.

P.I. STA. 135+58.27
Δ = 32°49'53.92" Lt.
Ts = 419.21'
Ls = 131.00'
Lc = 556.62'
θs = 3°07'39"
LT = 87.35'
ST = 43.68'
R = 1200.00'
E = 51.62'
e = 3.6%
Runoff = 131.00'
Runout = 72.78'

Lt. Sta. 134+00 Const.
1-C.B.I. Type A
(6,2) (H=6.0')

131+00 132+00 133+00 134+00

Temp Easement for Entrance Construction

POB29+19.24

Tract C

Tract A

Tract B

Temp Easement for Slope Construction

Sodded Area

BARLOW DR.

PAVED PARKING

Exist. Curb

SANMH INACCESSIBLE TOP ELEV. 458.35

HUF-INGRAM HOUSING AUTH.

1-TVC, 2-EL, 3-TELE

DDA 53 DDA 54 DDA 55 DDA 56 DDA 57

F/L 454.73
Inv. 447.78

F/L 455.12
Inv. 450.62

F/L 455.33
Inv. 451.33

F/L 456.27
Inv. 450.27

T/E 454.08

Const Sidewalk Ramps Type I

Adjust M.H.

US 231

N71°13'42"E

S71°13'42"W, 134.98'

S20°54'52"E, 20.41'

N20°54'52"W, 20.41'

S71°13'42"W, 39.09'

S 7°00'07" W, 61.27'

S69°28'22"W, 67.93'

S19°06'07"E, 23.24'

N19°06'07"W, 23.24'

N69°28'29"E, 168.97

N69°28'29"E, 51.85'

S24°40'36"W, 28.86'

N 24°40'36" E, 28.86'

Arc = 25.38'
Chord = 25.38' S 57°14'11" W
Radius = 1229.00'

Chord = 220.05' S 62°57'52" W
Radius = 1229.00'

Chord = 213.00' S 63°14'08" W
Radius = 797.36'

Arc = 213.64'

Proposed R/W

Exist R/W

GRAVEL PARKING

GRAVEL ENTRANCE

BLACKTOP PARKING

BLACKTOP ENTRANCE

1-S-FRAME

1-S-ONE BUSINESS (RONE'S TRUCKING)

1-S-CONC. BLOCK BUSINESS (MORGANTOWN FREIGHT INC.)

METAL SIDED BUILDING

1-S-CONC. BLK.

GRAVEL

P 50 OTTO RONE
DORIS RONE (W.F.)

P 50XI (EXCESS PURCHASE)

P 52 MICHAEL RONE
SALLY RONE

P 53 SAM MOORE
HELEN MOORE

P 54 ASHLEY AND HOWARD, INC.

P 56 RONE EQUIPMENT SERVICES, INC.

P 56XI (EXCESS PURCHASE)

P 51

Rt. Sta. 130+00 to Sta. 135+00 Const.
434 L.F. Std. Curb & Gutter Mod
& 244 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 202 S.Y. Sod

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)	POINT DISCHARGE Latitude	POINT DISCHARGE Longitude
DDA 55	0.08	288		
DDA 56	0.14	504		
DDA 57	0.39	1404		

CONSTRUCT ENTRANCES RIGHT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
131+68	•30'	56 S.Y.	243 S.Y. ASPH

•Requires Detectable Warnings

0' 20' 40' 80'

EROSION CONTROL PLAN
STA. 130+00 TO 135+00

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R0840EC.DGN
USER: ESJones
DATE PLOTTED: November 28, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R84

1 REVISED 11-27-12

Begin Charles Black Drive Sta. 29+29.24

Reconstruct 25 L.F. D.B.I. Type 12A & Tie to Existing 18" Pipe

Sta. 130+33.90 US 231= Charles Black Drive Sta. 30+00.00

MATCH LINE 130+00

MATCH LINE 135+00

CHARLES BLACK DR.

HOUSING AUTHORITY OF MORGANTOWN

2-S-BRICK & FRAME APARTMENTS

ASHLEY AND HOWARD, INC.

P.I. STA. 135+58.27
Δ = 32°49'53.92" Lt.
Ts = 419.21'
Ls = 131.00'
Lc = 556.62'
θs = 3°07'39"
LT = 87.35'
ST = 43.68'
R = 1200.00'
E = 51.62'
e = 3.6%
Runoff = 131.00'
Runout = 72.78'

Lt. Sta. 130+00 to Sta. 135+00 Const.
446 L.F. Std. Curb & Gutter Mod
& 245 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 205 S.Y. Sod

Lt. Sta. 130+75 Const.
1-C.B.I. Type A
(6,2) (H=6.95')

Lt. Sta. 131+60 Const.
1-C.B.I. Type A
(4,2) (H=4.5')

Lt. Sta. 132+50 Const.
1-C.B.I. Type A
(4,2) (H=4.0')

Lt. Sta. 134+00 Const.
1-C.B.I. Type A
(6,2) (H=6.0')

Lt. Sta. 130+50 to Sta. 133+00 Const
300 S.Y. Sod on outslope

Temp Easement for Entrance Construction

Temp Easement for Slope Construction

Temp Easement for Entrance & Slope Construction

POB 29+19.24

Tract A

Tract B

Tract C

Sodded Area

Const Sidewalk Ramps Type I

Adjust M.H.

DDA 53

DDA 54

DDA 55

DDA 56

DDA 57

F/L 454.73
Inv. 447.78

F/L 455.12
Inv. 450.62

F/L 455.33
Inv. 451.33

F/L 456.27
Inv. 450.27

T/R 455.25
Inv 447.20

N71°13'42"E

S71°13'42"W, 134.98'

S20°54'52"E, 20.41'

N20°54'52"W, 20.41'

S 71°00'07" W, 61.27'

S71°13'42"W, 39.09'

S69°28'22"W, 67.93'

N69°28'29"E, 168.97

S19°06'07"E, 23.24'

N19°06'07"W, 23.24'

S69°28'22"W, 67.93'

N 24°40'36" E, 28.86'

S24°40'36"W, 28.86'

Arc = 213.64'
Chord = 213.00' S 63°14'08" W
Radius = 797.36'

Arc = 191.76'
Chord = 191.34' N 62°51'
Radius = 8

Arc = 25.38'
Chord=25.38' S 57°14'11" W
Radius = 1229.00'

Arc = 220.05'
Chord=220.05' S 62°57'52" W
Radius = 1229.00'

Proposed R/W

Exist R/W

Exist. Curb

PAVED PARKING

GRAVEL PARKING

GRAVEL ENTRANCE

GRAVEL

BLACKTOP PARKING

BLACKTOP ENTRANCE

1-S-CONC. BLOCK BUSINESS (RONE'S TRUCKING)

1-S-CONC. BLOCK BUSINESS (MORGANTOWN FREIGHT INC.)

METAL SIDED BUILDING

1-S-CONC. BLK.

1-S-FRAME

2-S-BRICK & FRAME APARTMENTS

DENSE VEGETATION

POWER LINES

SANMH INACCESSIBLE TOP ELEV. 458.35

HUF-INGRAM HOUSING AUTH.

1-TVC, 2-EL, 3-TELE

1-TVC, 1-POWER

P 50 OTTO RONE
DORIS RONE (WF.)

P 50XI (EXCESS PURCHASE)

P 51

P 52 MICHAEL RONE
SALLY RONE

P 53 SAM MOORE
HELEN MOORE

P 54

P 56 RONE EQUIPMENT SERVICES, INC.

P 56XI (EXCESS PURCHASE)

DISTURBED DRAINAGE AREAS

SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)	POINT DISCHARGE Latitude	POINT DISCHARGE Longitude
DDA 55	0.08	288		
DDA 56	0.14	504		
DDA 57	0.39	1404		

CONSTRUCT ENTRANCES RIGHT

STATION	WIDTH	CEM. CONC. ENT. PVMT.	PAVEMENT
131+68	•30'	56 S.Y.	243 S.Y. ASPH

•Requires Detectable Warnings

Rt. Sta. 130+00 to Sta. 135+00 Const.
434 L.F. Std. Curb & Gutter Mod
& 244 S.Y. of 4" Conc. Sidewalk
with 20 S.F. Detectable Warnings
& 202 S.Y. Sod

0' 20' 40' 80'

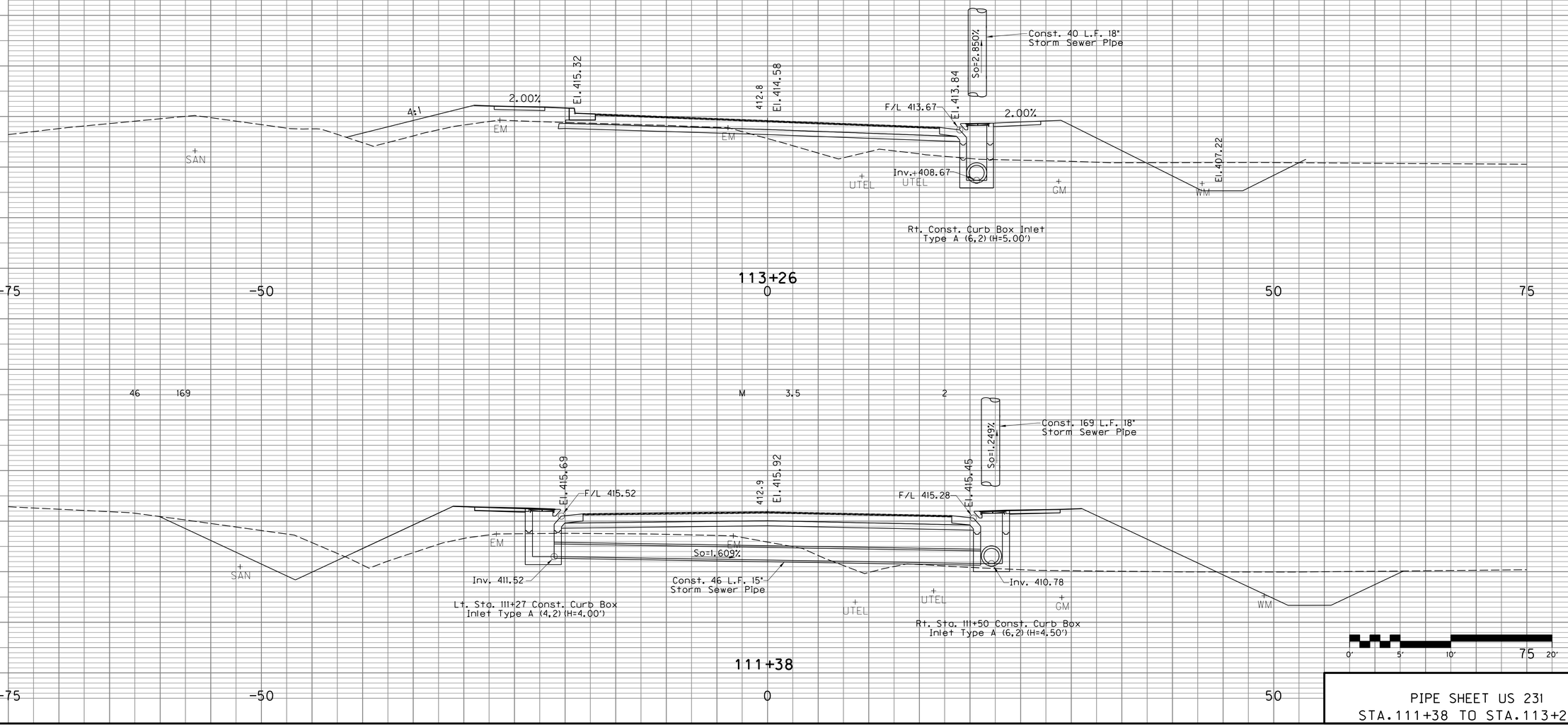
EROSION CONTROL PLAN
STA. 130+00 TO 135+00

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R0840EC.DGN
USER: ESJones
DATE PLOTTED: November 27, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

PIPE DRAINAGE SHEET 29 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R130

STORM SEWER PIPE									CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
12"	15"	18"	24"	30"	36"	42"																				
L I N E A R F E E T									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
		40											M	4.0			1									
		46		169									M	3.5			2									



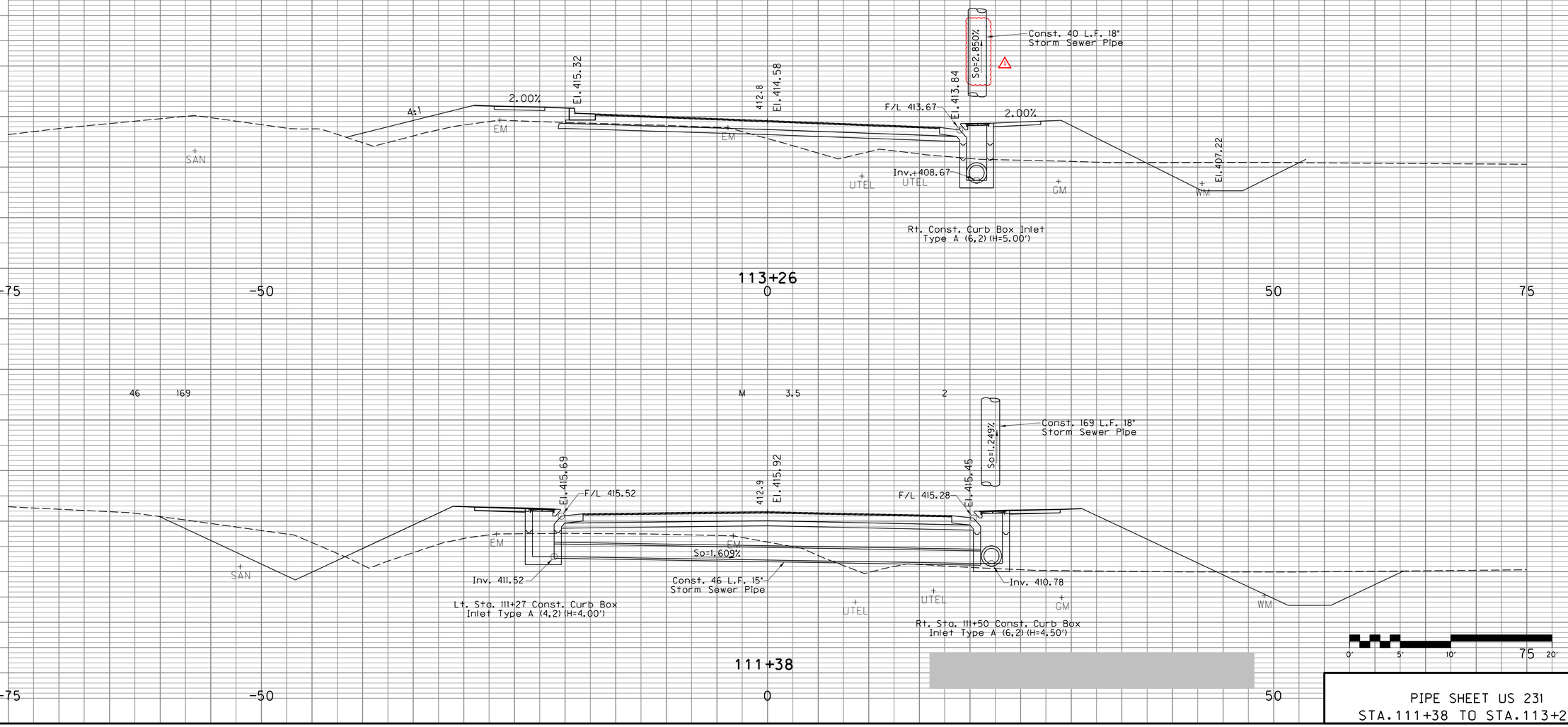
PIPE SHEET US 231
STA.111+38 TO STA.113+26

PIPE DRAINAGE SHEET 29 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R130

1 REVISED 11-27-12

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
L I N E A R F E E T									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
40													M	4.0			1									
46	169												M	3.5			2									



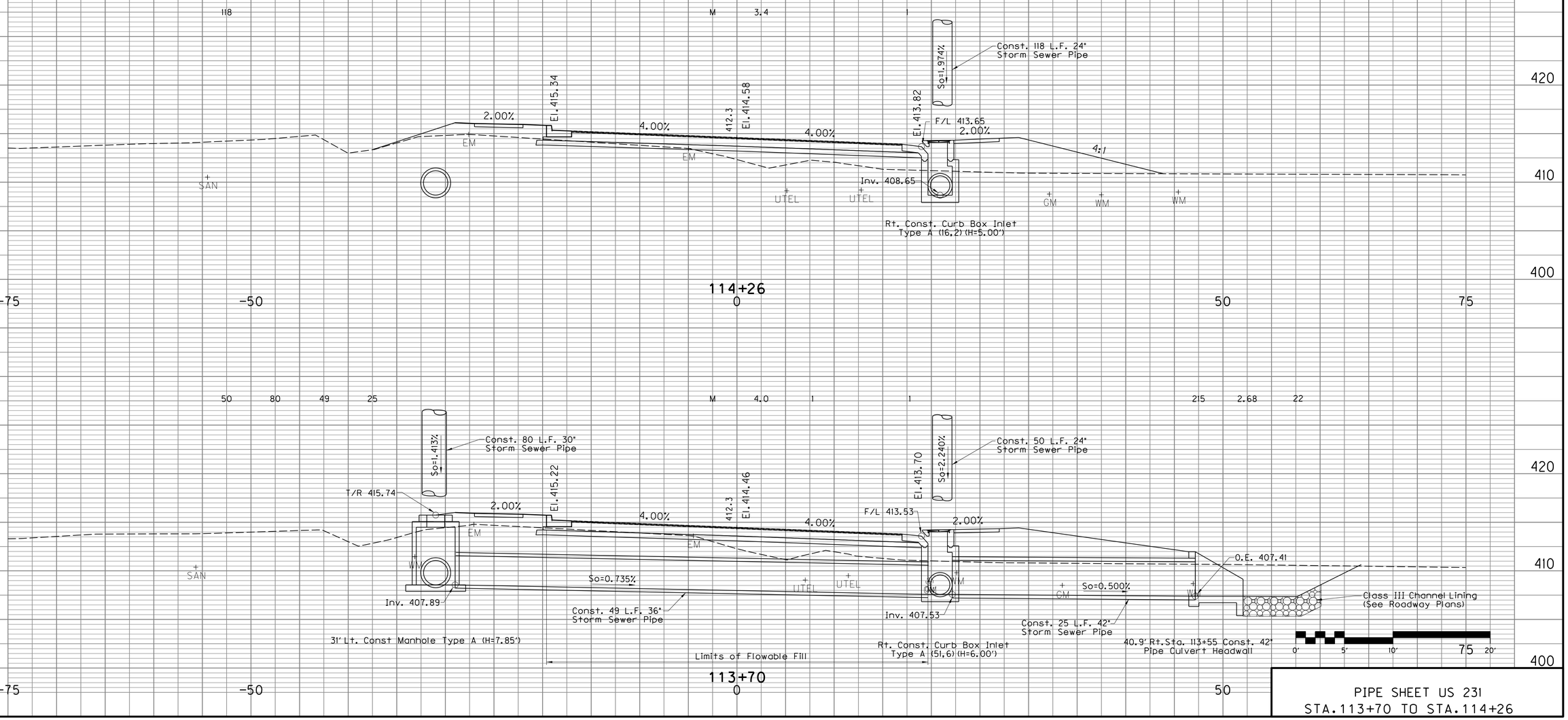
PIPE SHEET US 231
STA.111+38 TO STA.113+26

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R10200PD.DGN
USER: EsJones
DATE PLOTTED: November 26, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

PIPE DRAINAGE SHEET 30 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R131

STORM SEWER PIPE									CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
12"	15"	18"	24"	30"	36"	42"																				
L I N E A R F E E T									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
			118										M	3.4			1									
													412.3													
													50	80	49	25										
													M	4.0		1	1									
													215	2.68		22										



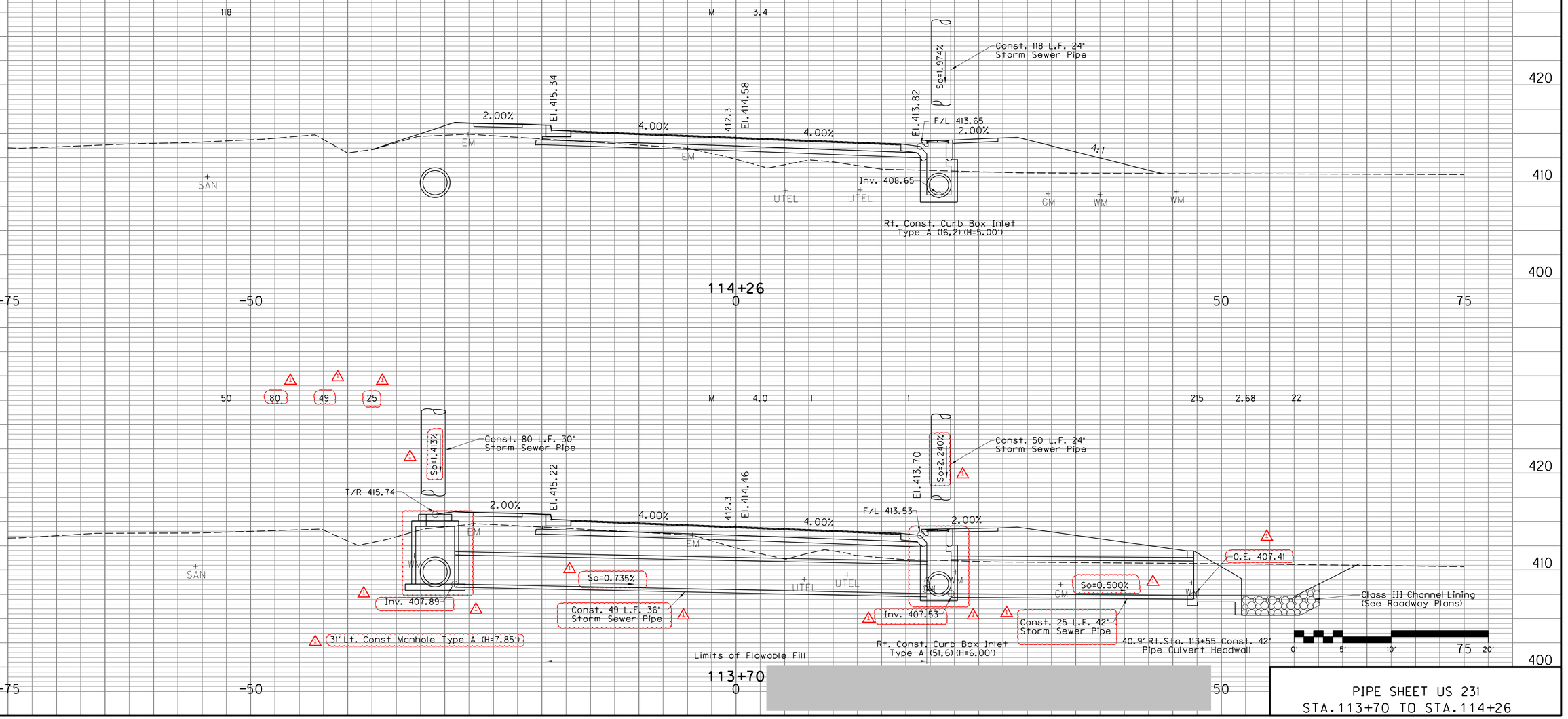
PIPE SHEET US 231
STA.113+70 TO STA.114+26

PIPE DRAINAGE SHEET 30 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R131

1 REVISED 11-27-12

STORM SEWER PIPE									CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
12"	15"	18"	24"	30"	36"	42"																				
L I N E A R F E E T									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
									118				M	3.4			1									



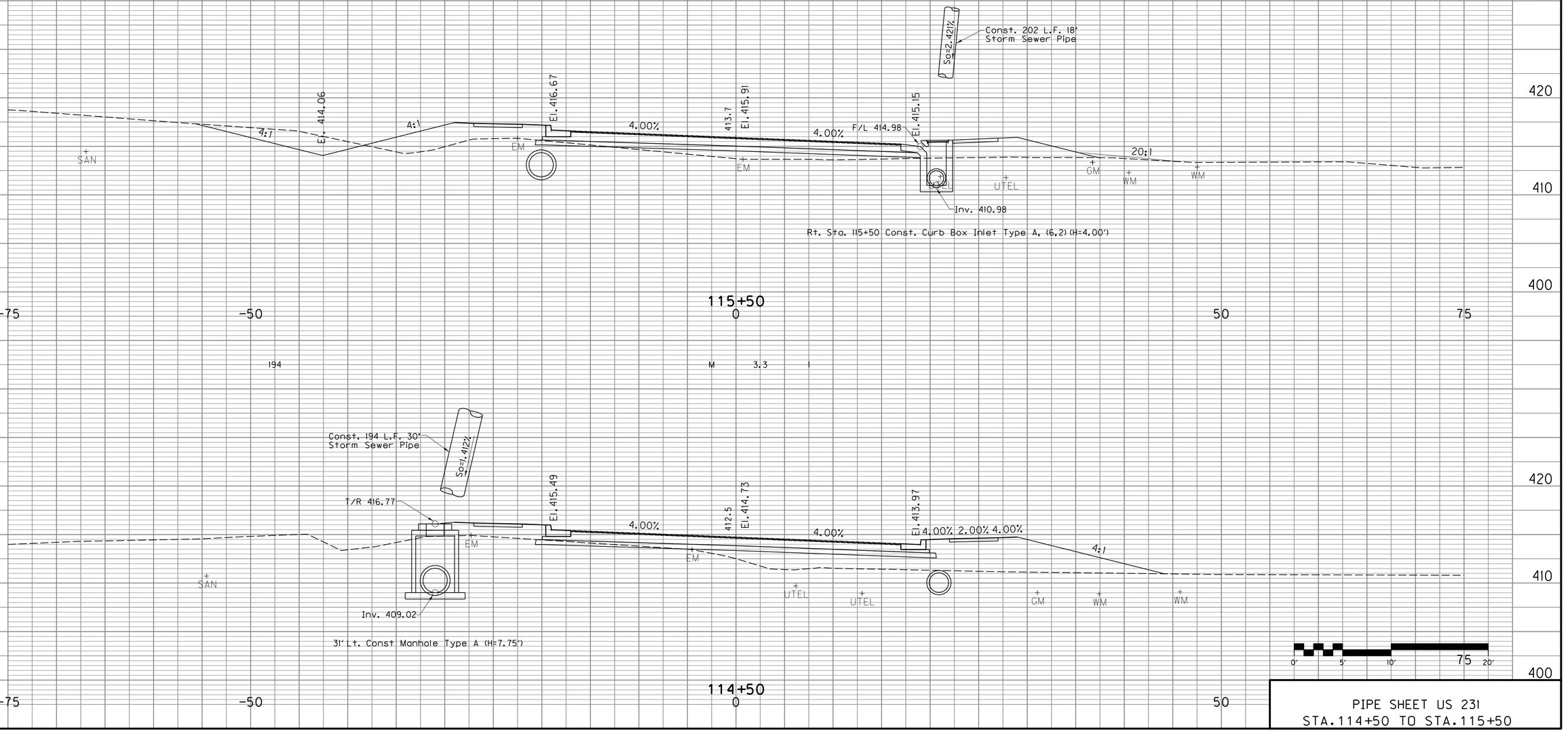
PIPE SHEET US 231
STA. 113+70 TO STA. 114+26

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R10200PD.DGN
USER: EsJones
DATE PLOTTED: November 26, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

PIPE DRAINAGE SHEET 31 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R132

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
LINEAR FEET									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
													M	3.6			1									
													M	3.3			1									



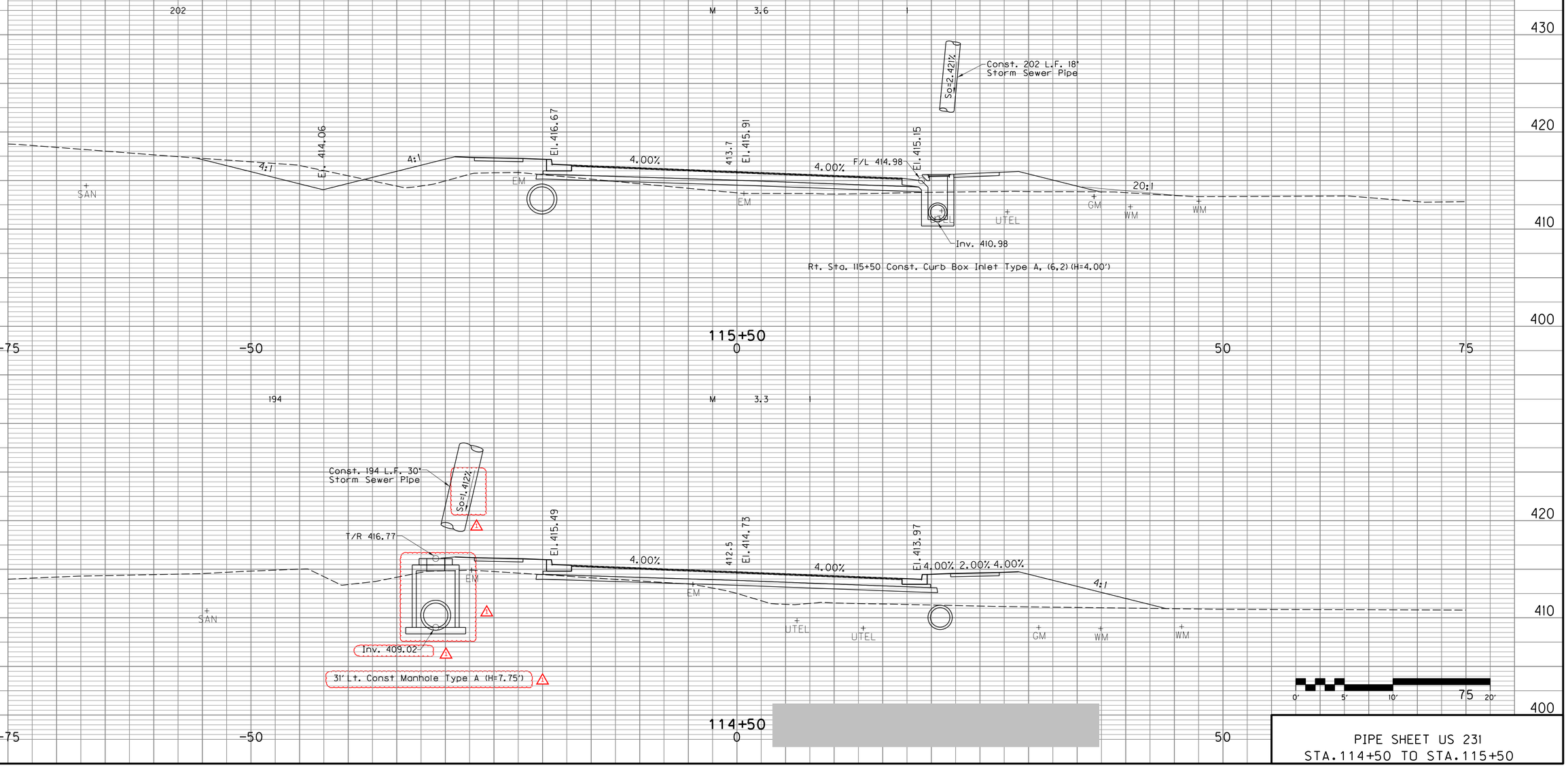
PIPE SHEET US 231
STA.114+50 TO STA.115+50

PIPE DRAINAGE SHEET 31 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R132

1 REVISED 11-27-12

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
LINEAR FEET									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
202													M	3.6			1									
194													M	3.3			1									



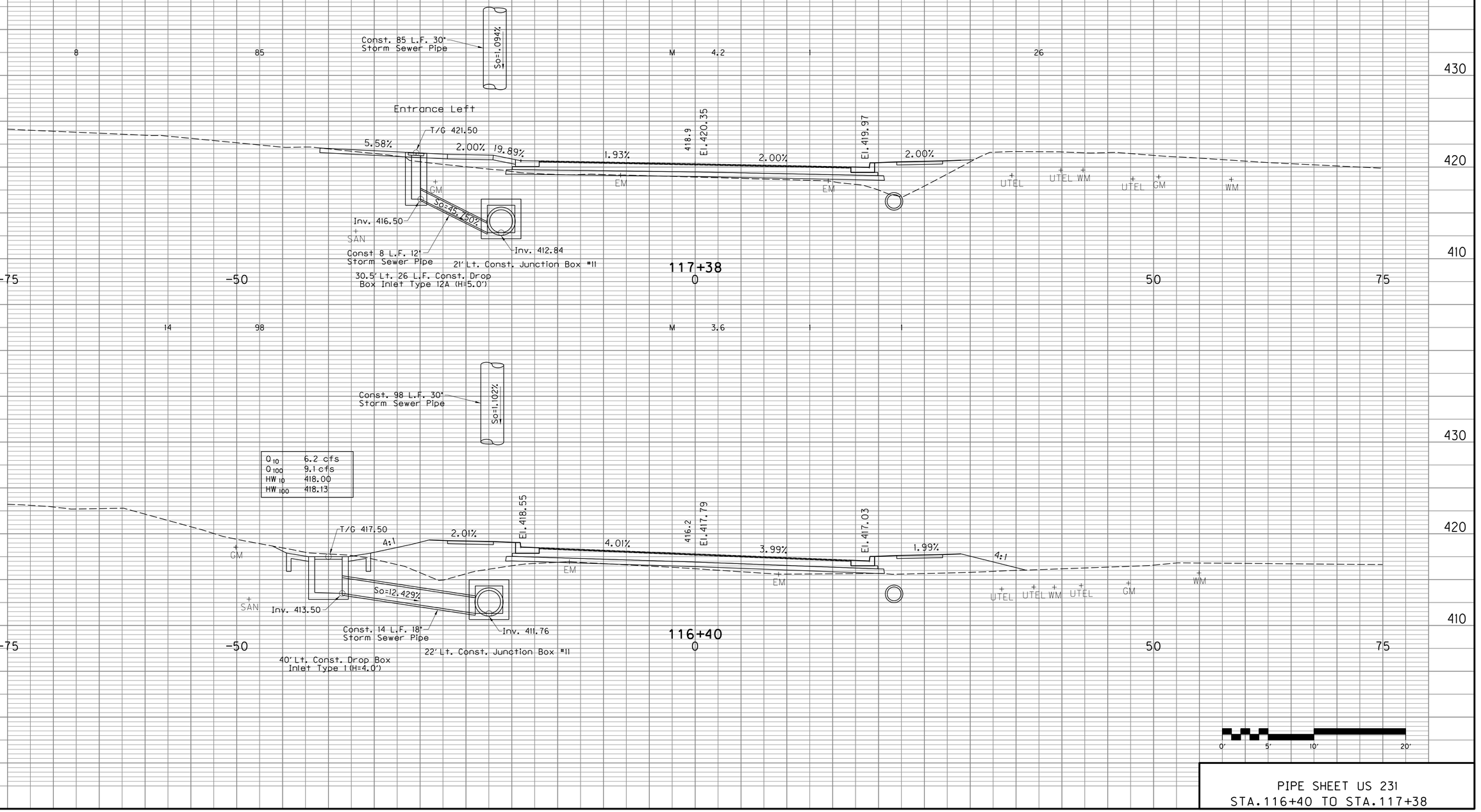
PIPE SHEET US 231
STA.114+50 TO STA.115+50

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R10200PD.DGN
USER: ESJones
DATE PLOTTED: November 26, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

PIPE DRAINAGE SHEET 32 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R133

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
LINEAR FEET									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
8				85									M	4.2		1					26					
14				98									M	3.6		1		1								



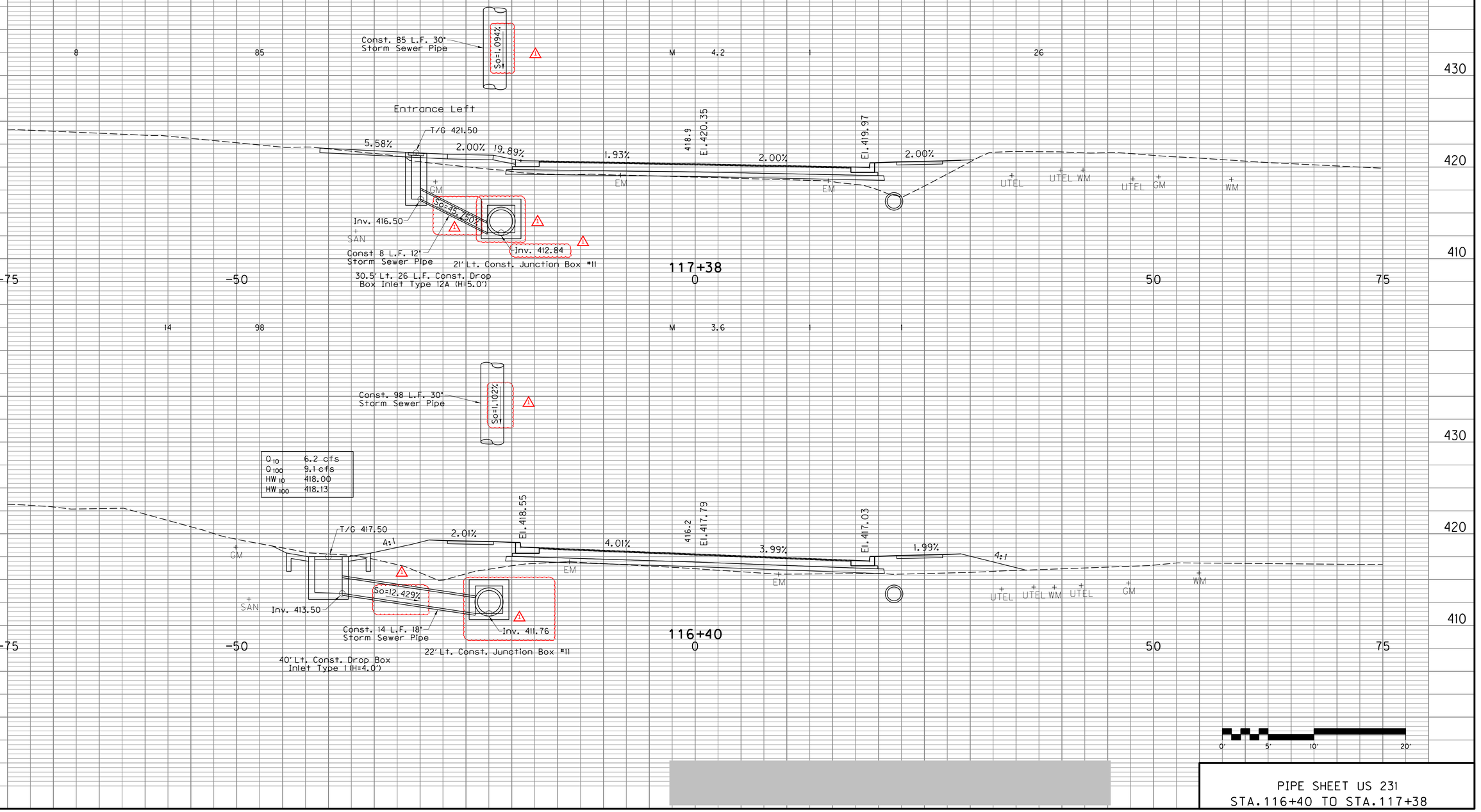
PIPE SHEET US 231
STA.116+40 TO STA.117+38

PIPE DRAINAGE SHEET 32 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R133

1 REVISED 11-27-12

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV			DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
LINEAR FEET									L.F.				FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
8				85								M	4.2		1					26					
14				98								M	3.6		1		1								



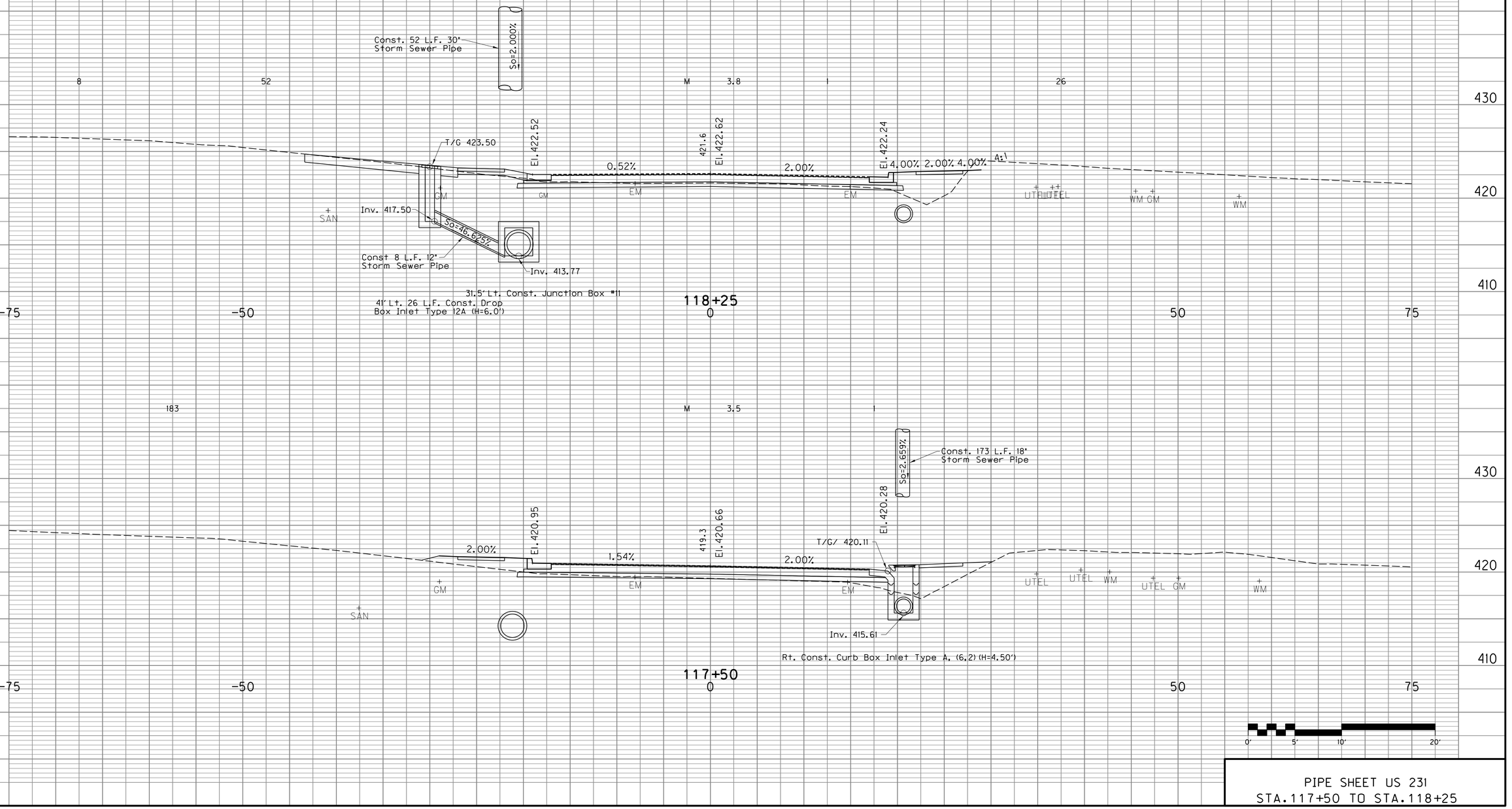
PIPE SHEET US 231
STA.116+40 TO STA.117+38

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R10200PD.DGN
USER: EsJones
DATE PLOTTED: November 26, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

PIPE DRAINAGE SHEET 33 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R134

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
L I N E A R F E E T									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON



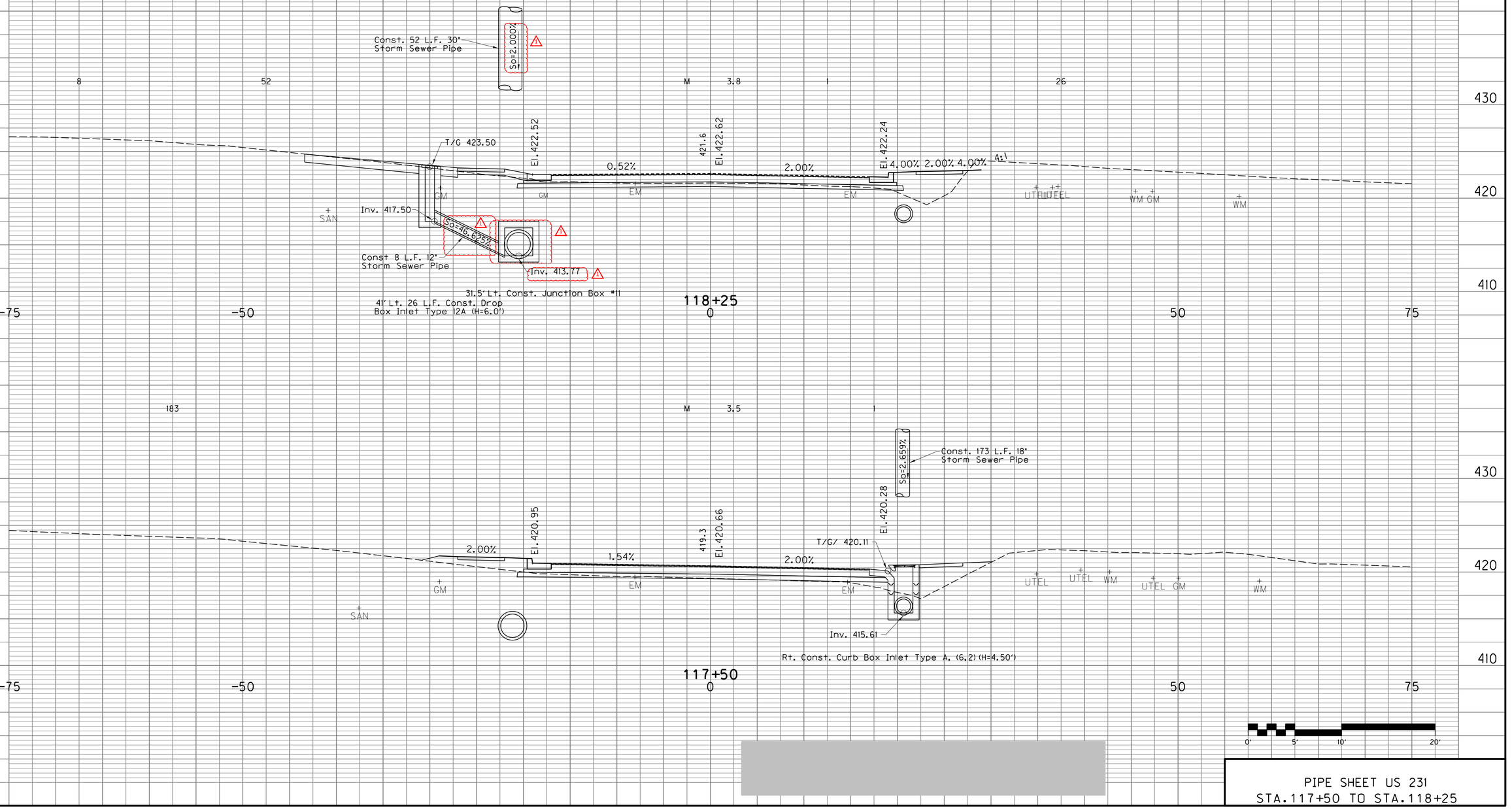
PIPE SHEET US 231
STA.117+50 TO STA.118+25

PIPE DRAINAGE SHEET 33 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R134

1 REVISED 11-27-12

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
L I N E A R F E E T									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
													M	3.8		1					26					



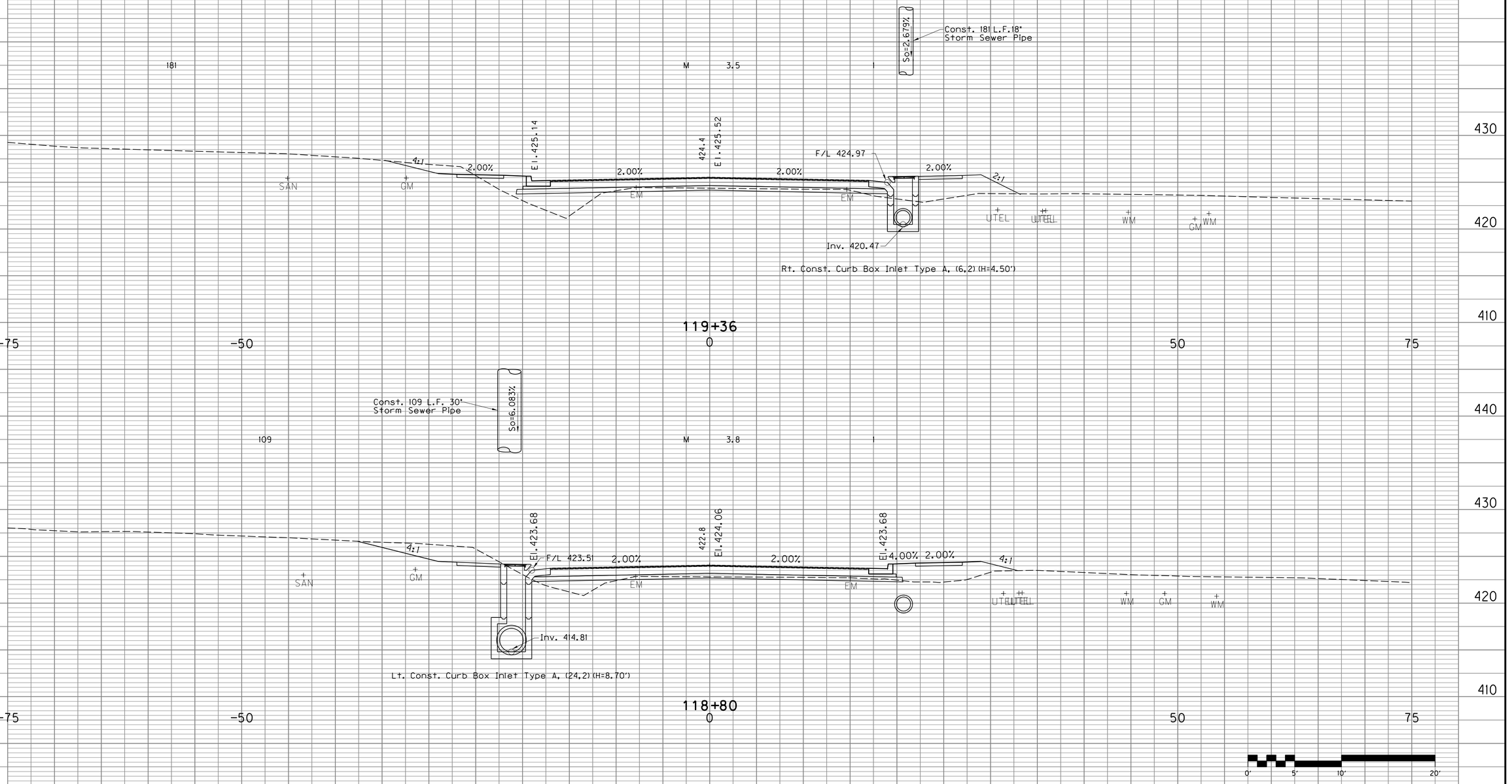
PIPE SHEET US 231
STA.117+50 TO STA.118+25

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R10200PD.DGN
USER: EsJones
DATE PLOTTED: November 26, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

PIPE DRAINAGE SHEET 34 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R135

STORM SEWER PIPE									CULVERT PIPE 48" EQUIV			DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
12"	15"	18"	24"	30"	36"	42"																			
L I N E A R F E E T									L.F.				FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
						181						M	3.5			1									



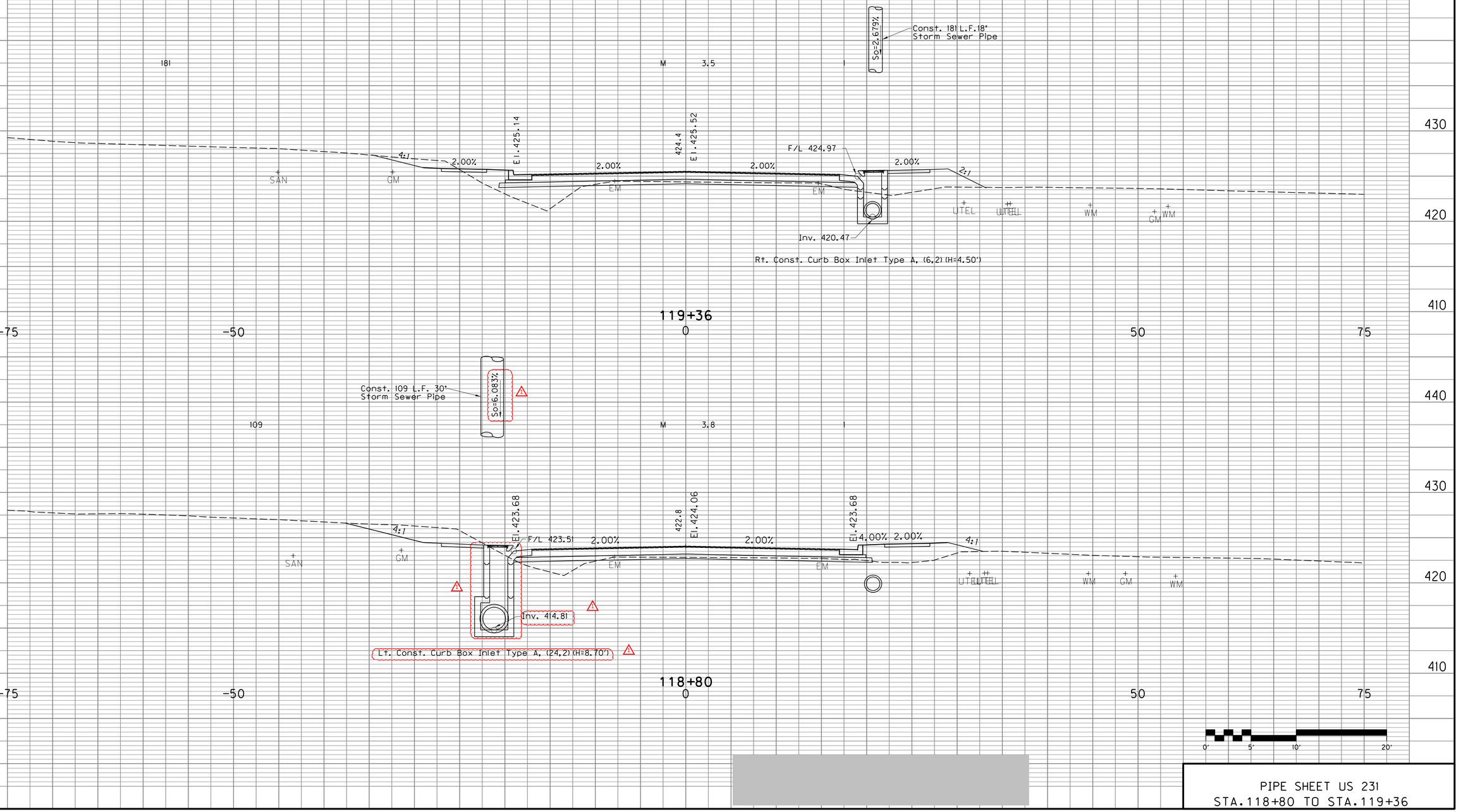
PIPE SHEET US 231
STA.118+80 TO STA.119+36

PIPE DRAINAGE SHEET 34 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R135

1 REVISED 11-27-12

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
L I N E A R F E E T									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON



PIPE SHEET US 231
STA.118+80 TO STA.119+36

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R10200PD.DGN
USER: ESJones
DATE PLOTTED: November 26, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R141

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV			MANHOLE TYPE B	DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
L I N E A R F E E T									L.F.			EACH		FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
		114										1	M	6.0			1								15	20

0' 5' 10' 20'

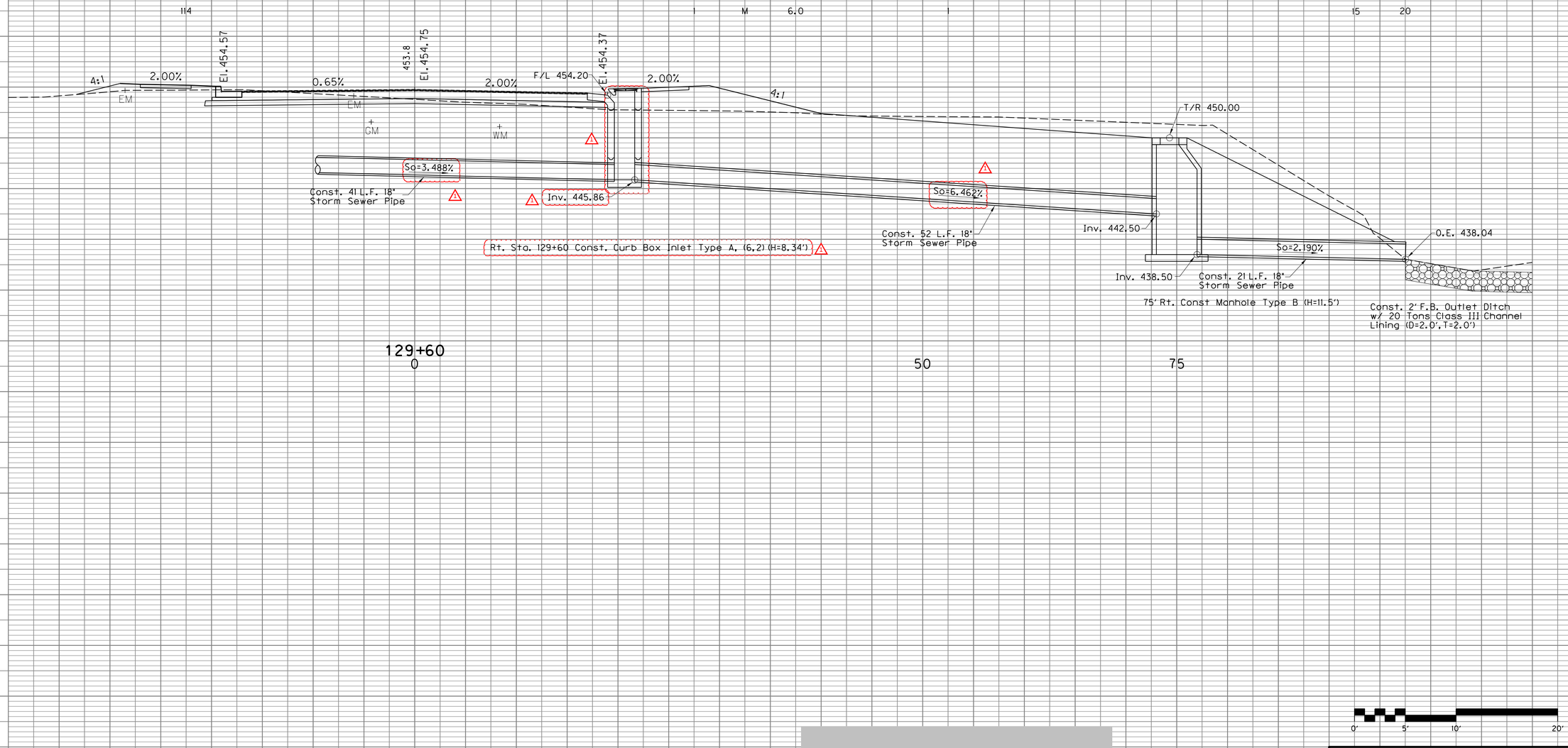
PIPE SHEET US 231
STA.129+60

PIPE DRAINAGE SHEET 40 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R141

1 REVISED 11-27-12

STORM SEWER PIPE									CULVERT PIPE 48" EQUIV			MANHOLE TYPE B	DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
12"	15"	18"	24"	30"	36"	42"																				
L I N E A R F E E T									L.F.			EACH		FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
												1	M	6.0			1								15	20
									114																	



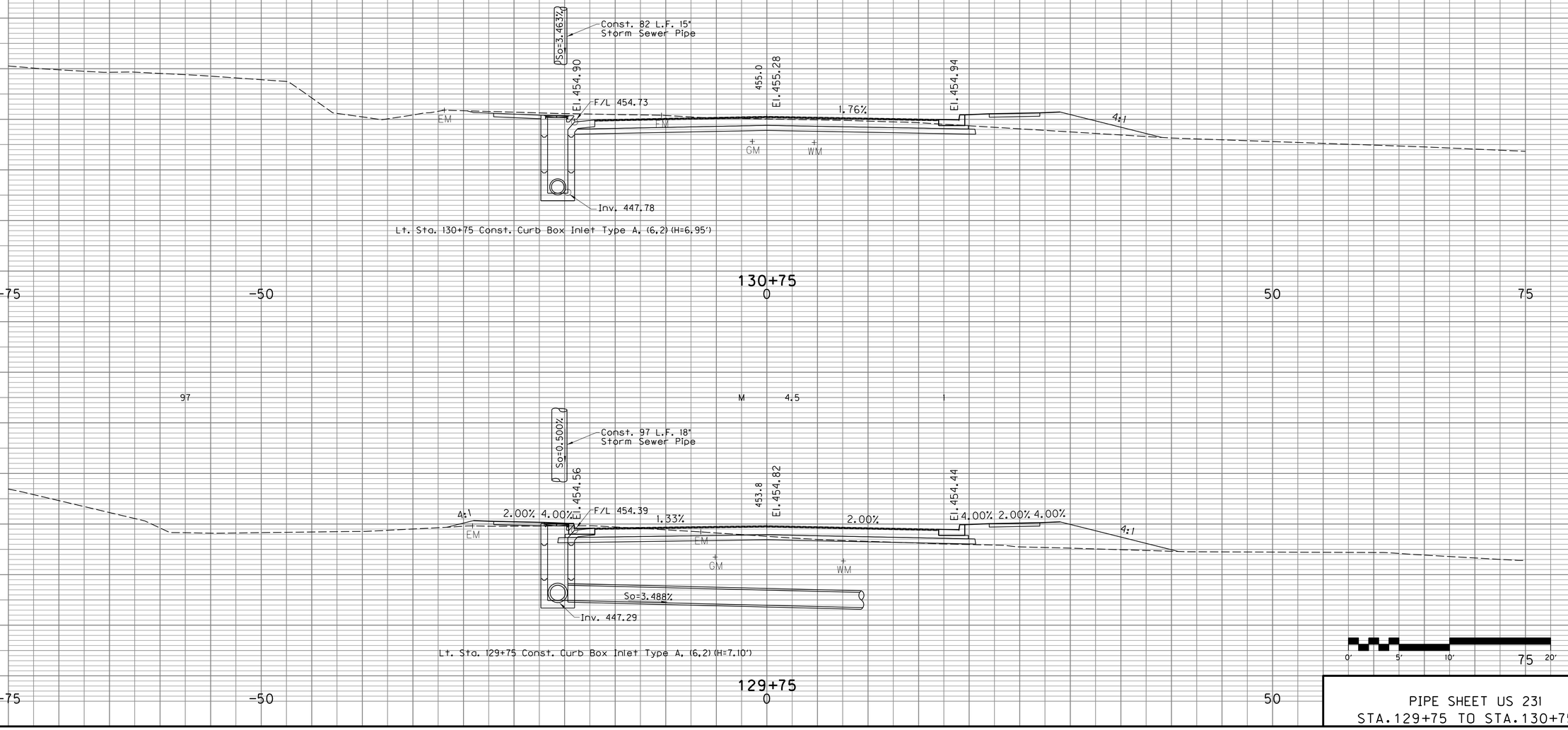
PIPE SHEET US 231
STA. 129+60

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R10200PD.DGN
USER: EJones
DATE PLOTTED: November 26, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

PIPE DRAINAGE SHEET 41 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R142

STORM SEWER PIPE									CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
12"	15"	18"	24"	30"	36"	42"																				
L I N E A R F E E T									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
						82							M	4.0			1									
						97							M	4.5			1									



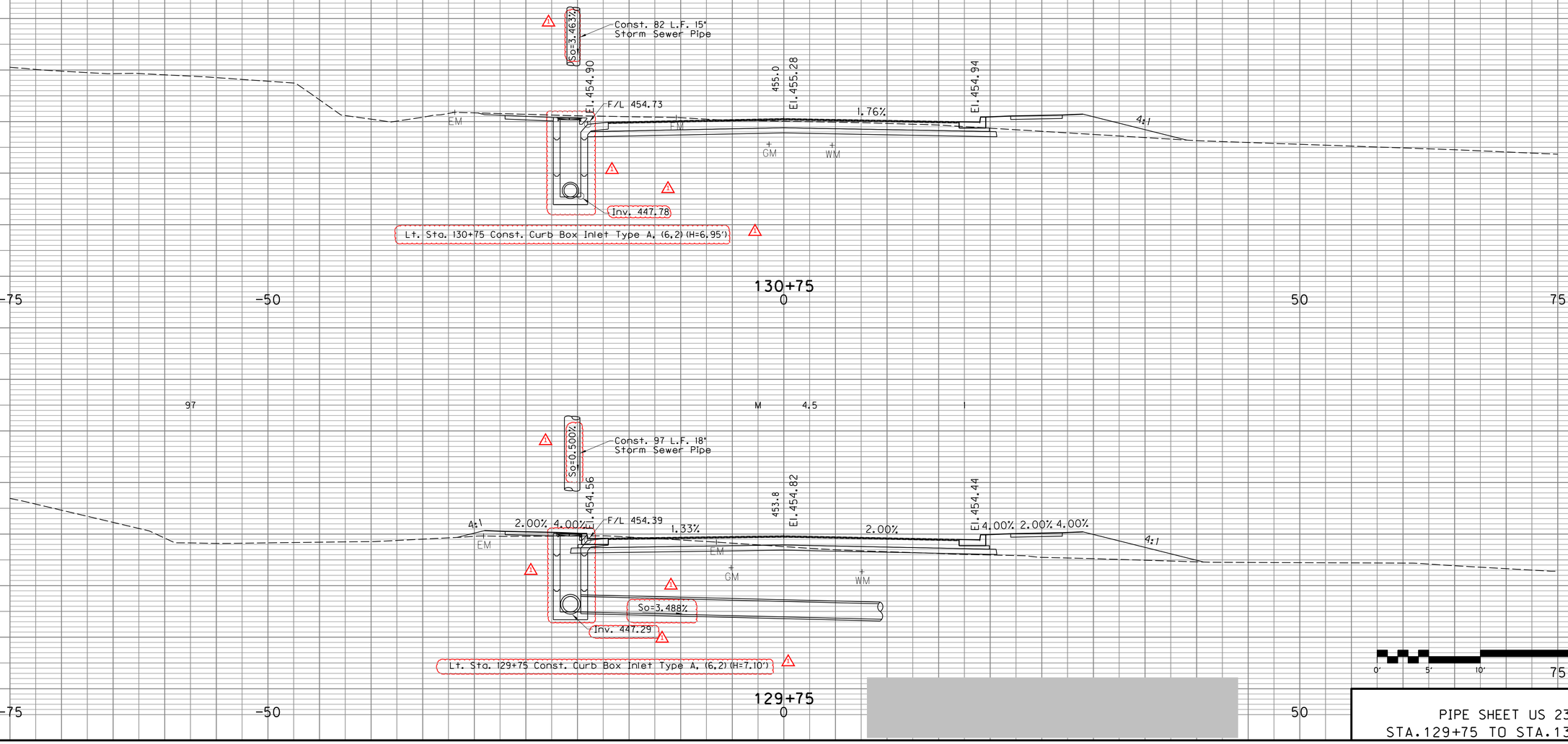
PIPE SHEET US 231
STA.129+75 TO STA.130+75

PIPE DRAINAGE SHEET 41 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R142

1 REVISED 11-27-12

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
LINEAR FEET									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
	82												M	4.0			1									
	97												M	4.5			1									



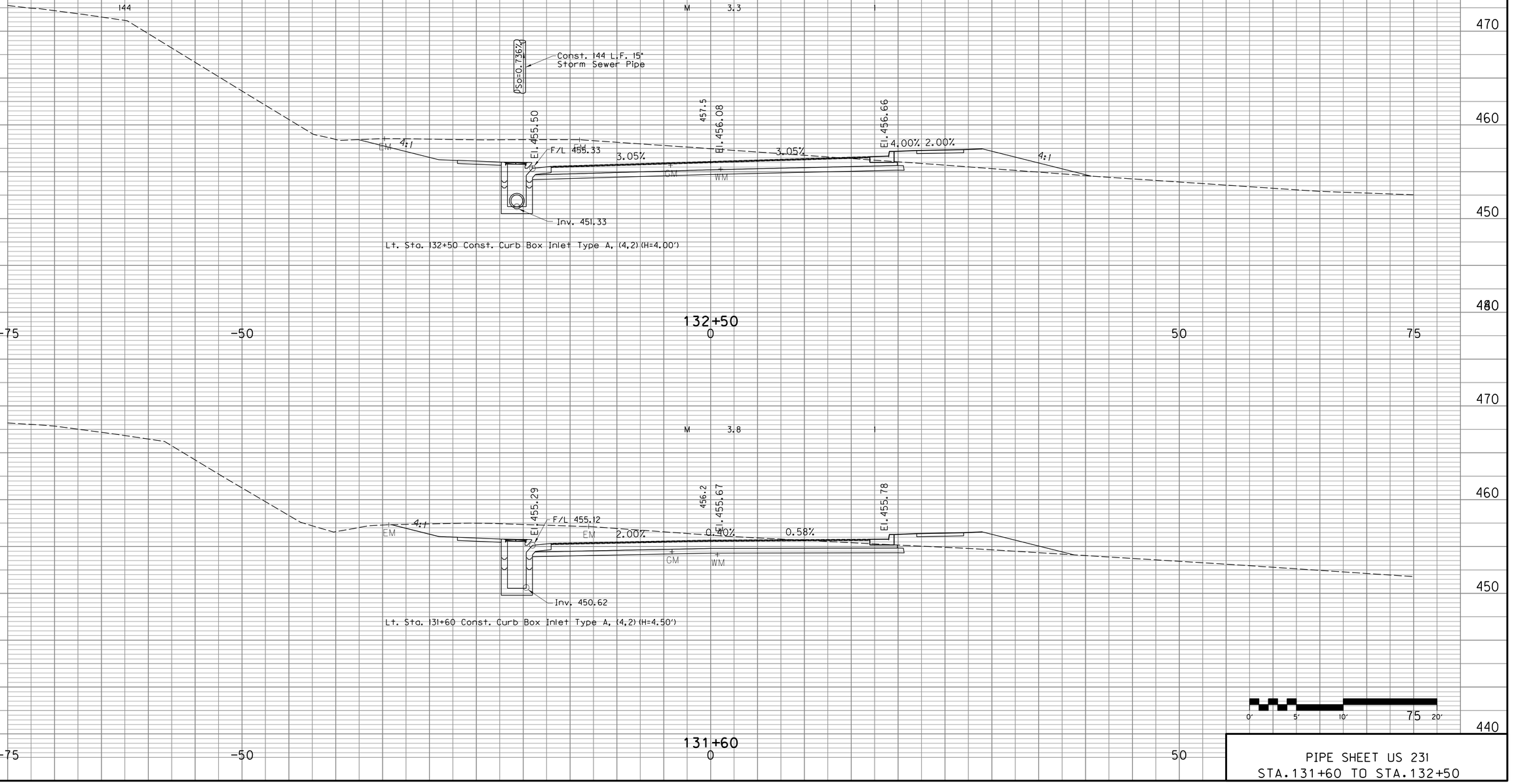
PIPE SHEET US 231
STA.129+75 TO STA.130+75

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R10200PD.DGN
USER: EJones
DATE PLOTTED: November 26, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

PIPE DRAINAGE SHEET 42 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R143

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
L I N E A R F E E T									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON



PIPE SHEET US 231
STA.131+60 TO STA.132+50

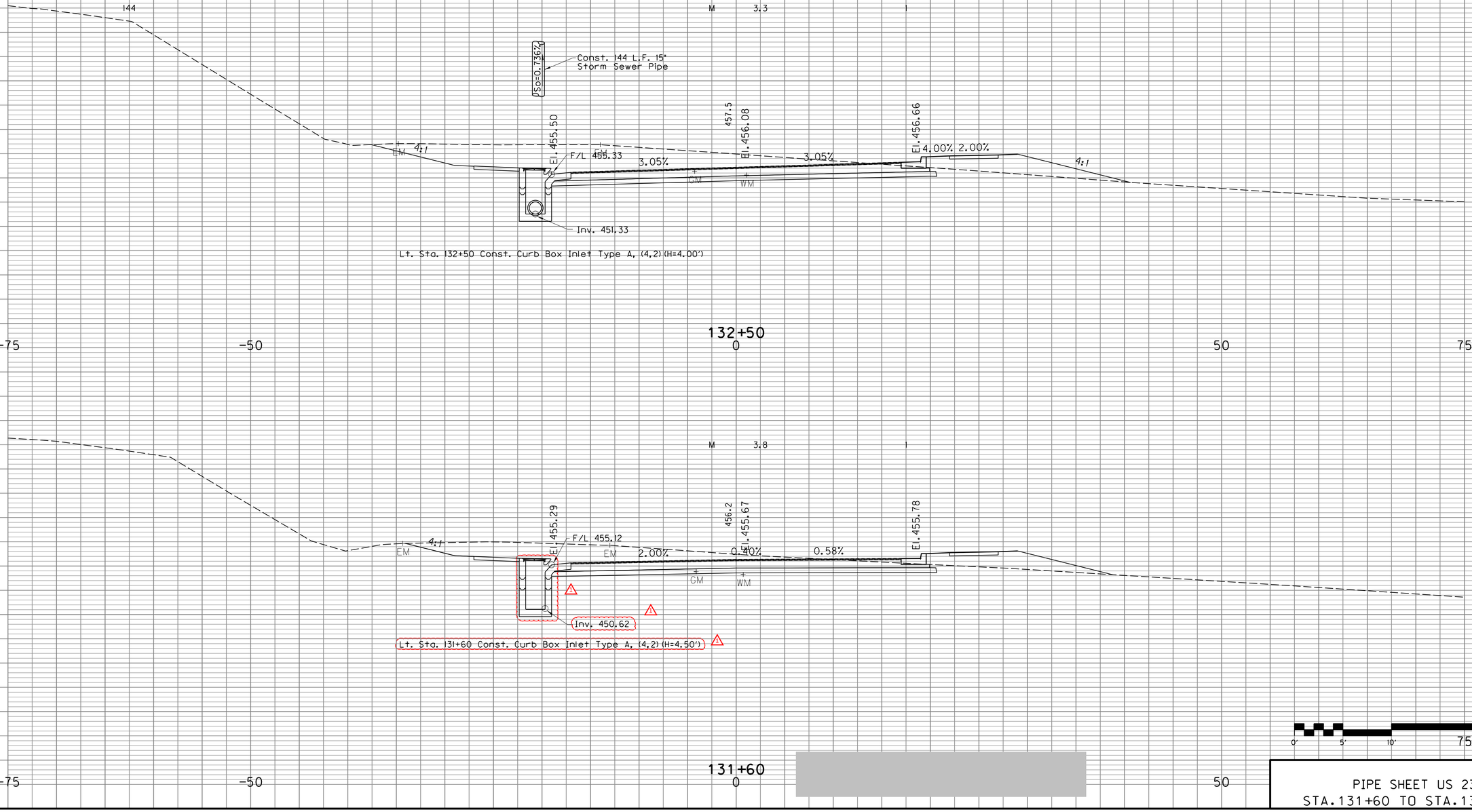
FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R10200PD.DGN
USER: ESJones
DATE PLOTTED: November 26, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

PIPE DRAINAGE SHEET 42 of 47

COUNTY OF	ITEM NO.	SHEET NO.
BUTLER	3-115.00	R143

1 REVISED 11-27-12

STORM SEWER PIPE 12"	15"	18"	24"	30"	36"	42"			CULVERT PIPE 48" EQUIV				DESIGN PH LEVEL	MAX. COVER HEIGHT	MANHOLE TYPE A	JUNCTION BOX	CURB BOX INLET TYPE A	DROP BOX INLET TYPE 1	DROP BOX INLET TYPE 3	DROP BOX INLET TYPE 11	DROP BOX INLET TYPE 12A	DROP BOX INLET TYPE 14	STEEL REINFORCE.	CLASS 'A' CONCRETE	DITCH EXCAVATION	CHANNEL LINING
LINEAR FEET									L.F.					FT	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	EACH	LBS	C.Y.	C.Y.	TON
													M	3.3			1									



PIPE SHEET US 231
STA.131+60 TO STA.132+50

FILE NAME: G:\KY\BUTLER\US 231\3 LANES\PLAN SET\R10200PD.DGN
USER: ESJones
DATE PLOTTED: November 26, 2012
E-SHEET NAME:
MicroStation v8.11.7.443

PROPOSAL BID ITEMS

Report Date 11/29/12

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICI	FP	AMOUNT
0010	00001		DGA BASE	11,833.00	TON		$	
0020	00020		TRAFFIC BOUND BASE	548.00	TON		$	
0030	00100		ASPHALT SEAL AGGREGATE	7.00	TON		$	
0040	00103		ASPHALT SEAL COAT	1.00	TON		$	
0050	00190		LEVELING & WEDGING PG64-22	4,442.00	TON		$	
0060	00214		CL3 ASPH BASE 1.00D PG64-22	19,894.00	TON		$	
0070	00324		CL3 ASPH SURF 0.50B PG64-22	3,399.00	TON		$	
0080	02075		JPC PAVEMENT-6 IN	401.00	SQYD		$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICI	FP	AMOUNT
0090	00078		CRUSHED AGGREGATE SIZE NO 2	12,000.00	TON		$	
0100	01792		ADJUST MANHOLE	2.00	EACH		$	
0110	01811		STANDARD CURB AND GUTTER MOD	13,023.00	LF		$	
0120	01875		STANDARD HEADER CURB	308.00	LF		$	
0130	01880		BARRIER HEADER CURB	322.00	LF		$	
0140	01992		INSTALL TEMP CONC MED BARR	80.00	LF		$	
0150	02014		BARRICADE-TYPE III	34.00	EACH		$	
0160	02101		CEM CONC ENT PAVEMENT-8 IN	2,071.00	SQYD		$	
0170	02157		PAVED DITCH TYPE 1	31.00	SQYD		$	
0180	02203		STRUCTURE EXCAV-UNCLASSIFIED	379.00	CUYD		$	
0190	02223		GRANULAR EMBANKMENT	116.00	CUYD		$	
0200	02230		EMBANKMENT IN PLACE	36,824.00	CUYD		$	
0210	02242		WATER	1,230.00	MGAL		$	
0220	02351		GUARDRAIL-STEEL W BEAM-S FACE	425.00	LF		$	
0230	02360		GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH		$	
0240	02371		GUARDRAIL END TREATMENT TYPE 7	4.00	EACH		$	
0250	02381		REMOVE GUARDRAIL	762.50	LF		$	
0260	02397		TEMP GUARDRAIL	487.50	LF		$	
0270	02429		RIGHT-OF-WAY MONUMENT TYPE 1	132.00	EACH		$	
0280	02430		RIGHT-OF-WAY MONUMENT TYPE 1A	42.00	EACH		$	
0290	02432		WITNESS POST	46.00	EACH		$	
0300	02483		CHANNEL LINING CLASS II	37.00	TON		$	
0310	02484		CHANNEL LINING CLASS III	599.00	TON		$	
0320	02545		CLEARING AND GRUBBING(22 ACRES)	1.00	LS		$	
0330	02555		CONCRETE-CLASS B	225.00	CUYD		$	
0340	02562		SIGNS	449.00	SQFT		$	
0350	02585		EDGE KEY	301.00	LF		$	
0360	02599		FABRIC-GEOTEXTILE TYPE IV	9,000.00	SQYD		$	
0370	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	905.00	SQYD	$2.00	$	$1,810.00
0380	02611		HANDRAIL-TYPE A-1	508.00	LF		$	
0390	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		$	
0400	02651		DIVERSIONS (BY-PASS DETOURS)	1.00	LS		$	
0410	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		$	
0420	02677		ASPHALT PAVE MILLING & TEXTURING	102.00	TON		$	
0430	02690		SAFELOADING	34.00	CUYD		$	

PROPOSAL BID ITEMS

Report Date 11/29/12

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICI	FP	AMOUNT
0440	02720		SIDEWALK-4 IN CONCRETE	7,268.00	SQYD		$	
0450	02726		STAKING	1.00	LS		$	
0460	02731		REMOVE STRUCTURE	1.00	LS		$	
0470	05950		EROSION CONTROL BLANKET	17,816.00	SQYD		$	
0480	05985		SEEDING AND PROTECTION	16,660.00	SQYD		$	
0490	05990		SODDING	6,975.00	SQYD		$	
0500	06510		PAVE STRIPING-TEMP PAINT-4 IN	50,000.00	LF		$	
0510	06514		PAVE STRIPING-PERM PAINT-4 IN	54,000.00	LF		$	
0520	06515		PAVE STRIPING-PERM PAINT-6 IN	2,260.00	LF		$	
0530	06565		PAVE MARKING-THERMO X-WALK-6 IN	620.00	LF		$	
0540	06568		PAVE MARKING-THERMO STOP BAR-24IN	340.00	LF		$	
0550	06569		PAVE MARKING-THERMO CROSS-HATCH	2,460.00	SQFT		$	
0560	06574		PAVE MARKING-THERMO CURV ARROW	59.00	EACH		$	
0570	06576		PAVE MARKING-THERMO ONLY	3.00	EACH		$	
0580	06589		PAVEMENT MARKER TYPE V-MW	215.00	EACH		$	
0590	06591		PAVEMENT MARKER TYPE V-BY	430.00	EACH		$	
0600	08100		CONCRETE-CLASS A	22.00	CUYD		$	
0610	08150		STEEL REINFORCEMENT	1,309.00	LB		$	
0620	10020NS		FUEL ADJUSTMENT	56,958.00	DOLL	$1.00	$	$56,958.00
0630	10030NS		ASPHALT ADJUSTMENT	66,817.00	DOLL	$1.00	$	$66,817.00
0640	20597EC		DITCH EXCAVATION	376.00	CUYD		$	
0650	23131ER701		PIPELINE VIDEO INSPECTION	4,527.00	LF		$	
0660	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL	1.00	LS		$	
0670	23158ES505		DETECTABLE WARNINGS	620.00	SQFT		$	
0680	23274EN11F		TURF REINFORCEMENT MAT 1	1,110.00	SQYD		$	

PROPOSAL BID ITEMS

Report Date 11/29/12

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICI	FP	AMOUNT
0690	00440		ENTRANCE PIPE-15 IN	260.00	LF		$	
0700	00499		CULVERT PIPE-48 IN EQUIV	72.00	LF		$	
0710	00520		STORM SEWER PIPE-12 IN	56.00	LF		$	
0720	00521		STORM SEWER PIPE-15 IN(REVISED: 11-29-12)	2,894.00	LF		$	
0730	00522		STORM SEWER PIPE-18 IN	3,855.00	LF		$	
0740	00524		STORM SEWER PIPE-24 IN	1,126.00	LF		$	
0750	00526		STORM SEWER PIPE-30 IN(REVISED: 11-29-12)	1,052.00	LF		$	
0760	00528		STORM SEWER PIPE-36 IN(REVISED: 11-29-12)	108.00	LF		$	
0770	00529		STORM SEWER PIPE-42 IN(REVISED: 11-29-12)	25.00	LF		$	
0780	01000		PERFORATED PIPE-4 IN	559.00	LF		$	
0790	01010		NON-PERFORATED PIPE-4 IN	132.00	LF		$	
0800	01020		PERF PIPE HEADWALL TY 1-4 IN	7.00	EACH		$	
0810	01456		CURB BOX INLET TYPE A	72.00	EACH		$	
0820	01490		DROP BOX INLET TYPE 1	15.00	EACH		$	
0830	01496		DROP BOX INLET TYPE 3	1.00	EACH		$	
0840	01544		DROP BOX INLET TYPE 11	2.00	EACH		$	
0850	01550		DROP BOX INLET TYPE 12A(REVISED: 11-28-12)	253.00	LF		$	
0860	01577		DROP BOX INLET TYPE 14	4.00	EACH		$	
0870	01650		JUNCTION BOX	14.00	EACH		$	
0880	01756		MANHOLE TYPE A	4.00	EACH		$	
0890	01761		MANHOLE TYPE B	1.00	EACH		$	
0900	04811		ELECTRICAL JUNCTION BOX TYPE B	1.00	EACH		$	
0910	20098NC		CAP BOX INLET	2.00	EACH		$	
0920	21799EN		BORE AND JACK PIPE-24 IN	30.00	LF		$	
0930	21800EN		BORE AND JACK PIPE-30 IN	25.00	LF		$	
0940	23126EN		BORE AND JACK PIPE-18 IN	85.00	LF		$	
0950	23673EC		PVC PIPE-8 IN-INSTALL	20.00	LF		$	

Section: 0004 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICI	FP	AMOUNT
0960	08002		STRUCTURE EXCAV-SOLID ROCK	13.00	CUYD		$	
0970	08003		FOUNDATION PREPARATION	1.00	LS		$	
0980	08100		CONCRETE-CLASS A	377.90	CUYD		$	
0990	08150		STEEL REINFORCEMENT	49,402.00	LB		$	
1000	08410		LOW FLOW DIVERSION CURB	1.00	LS		$	

PROPOSAL BID ITEMS

Report Date 11/29/12

Section: 0005 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICI	FP	AMOUNT
1010	04750		TRANSFORMER BASE	1.00	EACH		$	
1020	04903		REFERENCE MARKER	2.00	EACH		$	
1030	06406		SBM ALUM SHEET SIGNS .080 IN	110.00	SQFT		$	
1040	06407		SBM ALUM SHEET SIGNS .125 IN	104.00	SQFT		$	
1050	06410		STEEL POST TYPE 1	435.00	LF		$	
1060	22400NN		REMOVE AND RELOCATE SIGN ASSEMBLY	1.00	EACH		$	

Section: 0006 - MOBILIZATION / DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICI	FP	AMOUNT
1070	02568		MOBILIZATION	1.00	LS		$	
1080	02569		DEMOBILIZATION	1.00	LS		$	