

CIRCULAR CURVE ①

Element: Circular	STATION	NORTHING	EASTING
PC(11002)	200+84.74	246021.9942	724239.3915
PI(11005)	205+02.85	245984.8337	723822.9406
CC(11004)		246853.6897	724165.1781
PT(11006)	208+60.00	246296.0222	723543.7024
Radius:	835.00		
Delta:	53°11'47.65" Right		
Degree of Curvature:	6°51'42.37"		
Length:	775.26		
Tangent:	418.11		
Chord:	747.71		
Middle Ordinate:	88.37		
External:	98.83		
Tangent Direction:	S 84°54'03.30" W		
Radial Direction:	N 5°05'56.70" W		
Chord Direction:	N 68°30'02.88" W		
Radial Direction:	N 48°05'50.94" E		
Tangent Direction:	N 41°54'09.06" W		

CIRCULAR CURVE ②

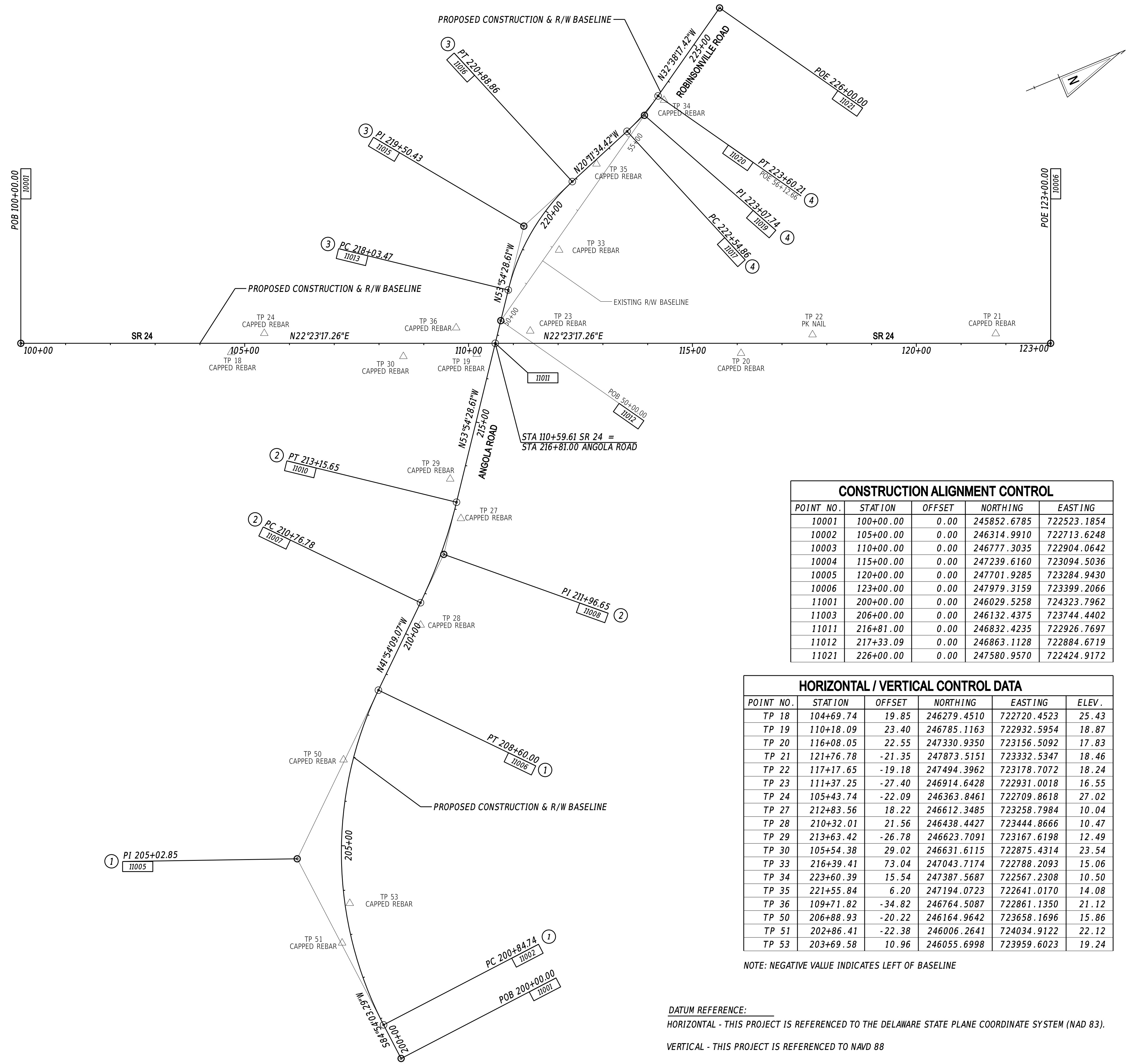
Element: Circular	STATION	NORTHING	EASTING
PC(11007)	210+76.78	246457.3674	723398.9228
PI(11008)	211+96.65	246546.5873	723318.8632
CC(11009)		245696.0010	722550.4411
PT(11010)	213+15.65	246617.2027	723221.9972
Radius:	1140.00		
Delta:	12°00'19.55" Left		
Degree of Curvature:	5°01'33.40"		
Length:	238.87		
Tangent:	119.87		
Chord:	238.43		
Middle Ordinate:	6.25		
External:	6.29		
Tangent Direction:	N 41°54'09.06" W		
Radial Direction:	N 48°05'50.94" E		
Chord Direction:	N 47°54'18.77" W		
Radial Direction:	N 36°05'31.39" E		
Tangent Direction:	N 53°54'28.61" W		

CIRCULAR CURVE ③

Element: Circular	STATION	NORTHING	EASTING
PC(11013)	218+03.47	246904.5709	722827.8021
PI(11015)	219+50.43	246991.1437	722709.0466
CC(11014)		247296.4856	723113.5080
PT(11016)	220+88.86	247129.0724	722658.3181
Radius:	485.00		
Delta:	33°42'54.17" Right		
Degree of Curvature:	11°48'48.83"		
Length:	285.39		
Tangent:	146.96		
Chord:	281.29		
Middle Ordinate:	20.84		
External:	21.78		
Tangent Direction:	N 53°54'28.59" W		
Radial Direction:	N 36°05'31.41" E		
Chord Direction:	N 37°03'01.53" W		
Radial Direction:	N 69°48'25.57" E		
Tangent Direction:	N 20°11'34.43" W		

CIRCULAR CURVE ④

Element: Circular	STATION	NORTHING	EASTING
PC(11017)	222+54.86	247284.8690	722601.0181
PI(11019)	223+07.74	247334.5003	722582.7643
CC(11018)		247117.4558	722145.8282
PT(11020)	223+60.21	247379.0318	722554.2434
Radius:	485.00		
Delta:	12°26'43.01" Left		
Degree of Curvature:	11°48'48.83"		
Length:	105.35		
Tangent:	52.88		
Chord:	105.14		
Middle Ordinate:	2.86		
External:	2.87		
Tangent Direction:	N 20°11'34.43" W		
Radial Direction:	N 69°48'25.57" E		
Chord Direction:	N 26°24'56.02" W		
Radial Direction:	N 57°21'42.56" E		
Tangent Direction:	N 32°38'17.44" W		



CONSTRUCTION ALIGNMENT CONTROL

POINT NO.	STATION	OFFSET	NORTHING	EASTING
10001	100+00.00	0.00	245852.6785	722523.1854
10002	105+00.00	0.00	246314.9910	722713.6248
10003	110+00.00	0.00	246777.3035	722904.0642
10004	115+00.00	0.00	247239.6160	723094.5036
10005	120+00.00	0.00	247701.9285	723284.9430
10006	123+00.00	0.00	247979.3159	723399.2066
11001	200+00.00	0.00	246029.5258	724323.7962
11003	206+00.00	0.00	246132.4375	723744.4402
11011	216+81.00	0.00	246832.4235	722926.7697
11012	217+33.09	0.00	246863.1128	722884.6719
11021	226+00.00	0.00	247580.9570	722424.9172

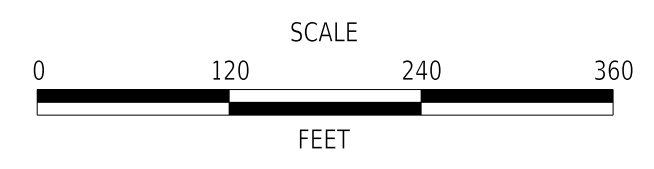
HORIZONTAL / VERTICAL CONTROL DATA

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEV.
TP 18	104+69.74	19.85	246279.4510	722720.4523	25.43
TP 19	110+18.09	23.40	246785.1163	722932.5954	18.87
TP 20	116+08.05	22.55	247330.9350	723156.5092	17.83
TP 21	121+76.78	-21.35	247873.5151	723332.5347	18.46
TP 22	117+17.65	-19.18	247494.3962	723178.7072	18.24
TP 23	111+37.25	-27.40	246914.6428	722931.0018	16.55
TP 24	105+43.74	-22.09	246363.8461	722709.8618	27.02
TP 27	212+83.56	18.22	246612.3485	723258.7984	10.04
TP 28	210+32.01	21.56	246438.4427	723444.8666	10.47
TP 29	213+63.42	-26.78	246623.7091	723167.6198	12.49
TP 30	105+54.38	29.02	246631.6115	722875.4314	23.54
TP 33	216+39.41	73.04	247043.7174	722788.2093	15.06
TP 34	223+60.39	15.54	247387.5687	722567.2308	10.50
TP 35	221+55.84	6.20	247194.0723	722641.0170	14.08
TP 36	109+71.82	-34.82	246764.5087	722861.1350	21.12
TP 50	206+88.93	-20.22	246164.9642	723658.1696	15.86
TP 51	202+86.41	-22.38	246006.2641	724034.9122	22.12
TP 53	203+69.58	10.96	246055.6998	723959.6023	19.24

NOTE: NEGATIVE VALUE INDICATES LEFT OF BASELINE

DATUM REFERENCE: _____
 HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83).
 VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88

ADDENDA / REVISIONS



HSIP SC, SR24 AT CAMP ARROW HEAD ROAD AND SR24 AT ANGOLA ROAD

CONTRACT	BRIDGE NO.	N/A
T201200902	DESIGNED BY:	W. NAUMAN
COUNTY	CHECKED BY:	C. ESHAM
SUSSEX		

HORIZONTAL AND VERTICAL CONTROL

SECTION
PD
SHEET NO.
12

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