South Carolina Department of Transportation

SURVEY CONTROL REPORT

P027662: Carolina Crossing I20/26/126 Corridor - Phase 2B

SOUTH CAROLINA DEPRTAMENT OF TRANSPORTATION
COLUMBIA, SC

For Information Only

Mead Hunt
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February 11, 2019

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Lexington, South Carolina 29072
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Mr. David Kinard, PE
Carolina Crossroads Project Manager
HDR Engineering, Inc.
4400 Leeds Ave., Suite 450
North Charleston, SC 29405

Subject: Carolina Crossroads Survey Control Report

Dear David,

Attached is the Survey Control Report for the supplemental survey control Mead & Hunt established for the Carolina Crossroads project per the scope of work identified for Phase 2A and 2B. The additional survey deliverables (deed and plat information, drainage surveys, property and existing right-of-way lines, supplemental surveys and associated dgn files) will be included on an external hard drive that I will provide you by February 15, 2019.

If you have any questions or require additional information, please contact me.

Sincerely,

Daniel P. Moses, PE
MEAD & HUNT, Inc.

Enclosure

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SC PLS STATEMENT

I, Mark A. Cornelius, PLS, a Professional Land Surveyor in the State of South Carolina, certify that the Primary and Main Survey Control task was performed by a licensed surveyor in employment of Mead & Hunt, Inc. for SCDOT Project **P027662: Carolina Crossing I20/26/126 Corridor - Phase 2B – Richland/Lexington Counties, SC;** that Mead & Hunt performed the survey control using both GPS and conventional leveling under my direct supervision and was completed on May 21, 2018. The survey control data shown is based on SC State Plane Coordinates, NAD 83/2011 horizontal datum and NAVD88 vertical datum in the international foot units.

Witness my hand and seal on this 11th day of February, 2019.

Professional Seal

For Information Only

No. 18263

Mark A. Cornelius, PLS

INTRODUCTION

Under contract with SCDOT, Mead & Hunt, Inc. provided a survey control network to establish the Primary (PSC) and Main (MSC) Survey Control Monuments as outlined in the South Carolina Department of Transportation Preconstruction Survey Manual, dated October 2012. A total of thirty-two (32) PSC and sixty-two (62) MSC monuments were established throughout the project corridor.

The intent of this document is to present the final coordinates for the PSC and MSC control established for the **Carolina Crossing I20/26/126 Corridor - Phase 2B.**

SURVEY CONTROL METHODOLOGY

The Survey Control Network developed for this project is based on South Carolina State Plane Grid coordinates with the horizontal values based on NAD 83/2011 and the vertical based on NAVD 88. Horizontal coordinates were established using a GPS RTK base and rover network established from NGS Monument Wiggly, PID: AH4505, NGS Monument Zoo, PID: EC2949, NGS Monument Lex 113, PID: DF3830 and NGS Monument Holt, PID: EC2906. Each PSC, MSC and checks were observed for a minimum of three minutes. Vertical elevations values were established from NGS Monument Zoo, PID: EC2949 with a published elevation of 206.41 (ft). Each control point was elevated using differential leveling methods.

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Point ID	Northing	Easting	Elev	Description
101	828601.2827	1943542.543	342.42	PSC-REBAR
102	827848.3916	1944189.663	349.52	PSC-REBAR
103	824299.594	1947608.468	346.12	PSC-REBAR
104	824022.4729	1946679.727	346.10	PSC-REBAR
105	821594.42	1948760.02	321.40	PSC-MONUMENT WIGGLY
106	821405.1713	1949437.063	320.39	PSC-REBAR
107	816604.1247	1954481.89	298.16	PSC-REBAR
108	816351.769	1953628.693	333.50	PSC-REBAR
109	812873.1448	1956585.301	273.96	PSC-REBAR
110	813225.2109	1957279.729	277.80	PSC-REBAR
111	804328.7007	1963347.2	255.31	PSC-REBAR
112	804535.7803	1964577.68	229.97	PSC-REBAR
113	802497.8721	1967123.637	311.74	PSC-REBAR
114	802649.7793	1966303.452	285.84	PSC-REBAR
115	799439.5788	1968783.209	237.75	PSC-REBAR
116	799698.9521	1967882.499	219.10	PSC-REBAR
117	794969.8132	1972058.87	212.86	PSC-REBAR
118	794510.2177	1973422.992	186.10	PSC-REBAR
119	792424.2747	1976973.875	206.33	PSC-MONUMENT-ZOO
120	793175.6226	1976948.539	222.36	PSC-REBAR
121	806868.4876	1979880.25	190.89	PSC-REBAR
122	807290.4367	1980655.838	177.56	PSC-REBAR
123	802539.03	1971685.23	332.83	PSC-MONUMENT-HOLT
124	803006.2841	1971155.972	314.68	PSC-REBAR
125	799794.94	1963388.88	246.30	PSC-MONUMENT LEX 113
126	799360.6523	1964131.513	210.55	PSC-REBAR
127	794897.6258	1958119.397	320.24	PSC-REBAR
128	795329.9793	1958592.64	293.26	PSC-REBAR
129	808898.8272	1960596.643	311.98	PSC-REBAR
130	808111.505	1961291.38	298.05	PSC-REBAR
131	795148.8487	1967221.385	240.18	PSC-REBAR
132	795174.7717	1968104.19	233.65	PSC-REBAR
201	824927.8424	1947563.966	338.55	MSC-REBAR
202	825082.6333	1946557.575	319.14	MSC-REBAR
203	825985.5614	1945764.601	313.69	MSC-REBAR
204	826900.0585	1944985.045	322.23	MSC-REBAR
205	823762.9488	1947576.746	324.22	MSC-REBAR
206	822602.8957	1948603.885	329.44	MSC-REBAR
207	821752.9287	1948271.045	313.59	MSC-REBAR

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Point ID	Northing	Easting	Elev	Description
208	820807.7374	1950236.126	298.00	MSC-REBAR
209	819853.5137	1951042.332	286.70	MSC-REBAR
210	818904.5589	1951857.527	274.79	MSC-REBAR
211	817990.0002	1952625.282	297.49	MSC-REBAR
212	817178.0682	1953278.534	317.81	MSC-REBAR
213	815969.4609	1954291.685	289.25	MSC-REBAR
214	815122.7248	1954982.475	257.67	MSC-REBAR
216	813514.1331	1956318.079	248.34	MSC-REBAR
219	812031.0057	1957738.886	286.60	MSC-REBAR
220	811531.8006	1958107.008	299.79	MSC-REBAR
221	810896.8547	1958688.43	279.49	MSC-REBAR
222	810263.1765	1959338.377	282.89	MSC-REBAR
223	809351.5095	1960117.085	318.77	MSC-REBAR
224	807343.3415	1961981.413	253.66	MSC-REBAR
225	806548.4185	1962653.207	238.57	MSC-REBAR
226	805553.7852	1963594.798	258.72	MSC-REBAR
227	804671.6927	1964266.385	211.35	MSC-REBAR
228	803389.5582	1965061.526	216.77	MSC-REBAR
229	802264.6862	1965952.506	269.65	MSC-REBAR
230	801816.3507	1967566.688	306.23	MSC-REBAR
231	798444.3818	1969487.314	209.26	MSC-REBAR
232	797456.9296	1970139.221	183.17	MSC-REBAR
233	796490.1126	1970696.145	180.81	MSC-REBAR
234	795473.6866	1971477.068	202.65	MSC-REBAR
235	793889.8042	1974652.658	191.05	MSC-REBAR
236	793548.1851	1975385.47	195.00	MSC-REBAR
237	793170.6862	1976218.744	200.45	MSC-REBAR
238	796109.2299	1959651.463	236.58	MSC-REBAR
239	796752.3128	1960282.563	201.43	MSC-REBAR
240	797394.4895	1960915.553	190.99	MSC-REBAR
241	798472.8575	1961821.307	217.35	MSC-REBAR
242	799316.5654	1962626.832	218.05	MSC-REBAR
243	800632.3707	1963945.2	233.30	MSC-REBAR
244	801196.7563	1964842.523	213.17	MSC-REBAR
245	801578.4461	1965916.647	236.26	MSC-REBAR
246	801901.9153	1966863.305	268.83	MSC-REBAR
247	802093.0038	1967280.146	286.15	MSC-REBAR
248	802305.0584	1968270.196	289.35	MSC-REBAR
249	802393.2865	1969697.041	316.50	MSC-REBAR
250	802474.6601	1970747.476	307.42	MSC-REBAR

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Point ID	Northing	Easting	Elev	Description
251	803159.0036	1972471.998	304.87	MSC-REBAR
252	803697.3961	1973518.097	259.02	MSC-REBAR
253	804152.8916	1974457.356	216.85	MSC-REBAR
254	804816.3115	1975802.008	179.32	MSC-REBAR
255	805489.023	1977142.649	178.80	MSC-REBAR
256	806138.0603	1978430.93	184.78	MSC-REBAR
257	806513.5379	1979185.888	198.10	MSC-REBAR
259	798288.3483	1969162.343	222.97	MSC-REBAR
260	797326.3711	1968727.22	183.38	MSC-REBAR
261	796409.6945	1968336.749	183.13	MSC-REBAR
262	795185.5207	1967841.414	202.55	MSC-REBAR

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