County of Cape May
Department of Public Works

STATE	NJDOT JOB NO	FEDERAL PROJECT NO.
N J	5909304	STP-0115(105)

UTILITIES
COMCAST CABLEVISION (CABLE LINES)
ATLANTIC CITY ELECTRIC (ELECTRIC LINES)
VERIZON, NJ (TELEPHONE LINES)
SOUTH JERSEY GAS COMPANY (GAS MAINS)
SEA ISLE CITY PUBLIC WORKS DEPARTMENT (WATER AND SANITARY SEWER MAIN)
CAPE MAY COUNTY DEPARTMENT OF PUBLIC WORKS (TRAFFIC SIGNALS)
CAPE MAY COUNTY MUNICIPAL UTILITIES AUTHORITY (SANITARY SEWER FORCE MAINS)

PLANS OF

JFK BOULEVARD / VETERANS BOULEVARD (C. R. 625)
ROADWAY IMPROVEMENTS

CITY OF SEA ISLE CITY **CAPE MAY COUNTY**
SCALES AS INDICATED **AUGUST 2012**

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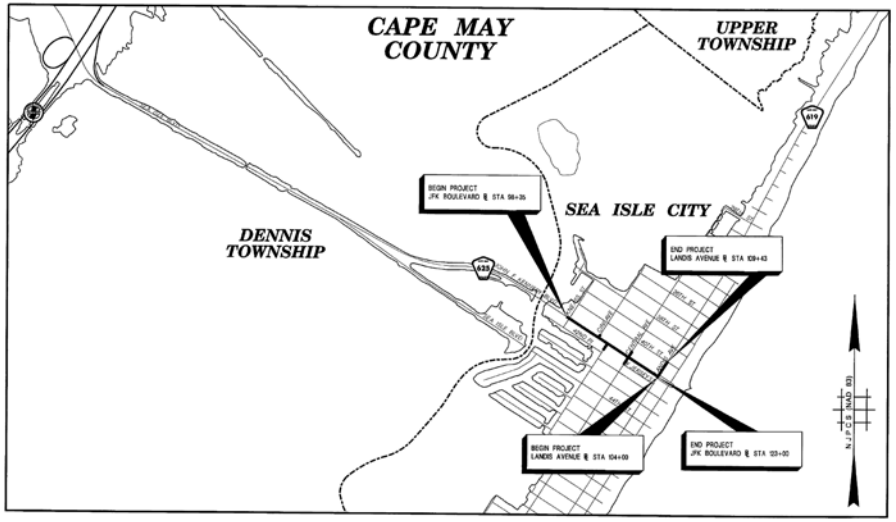


KEY MAP

1000' 0 1000' 2000'
SCALE 1" = 1,000'

LENGTH OF PROJECT = 2,465 LIN. FT. OR 0.467 MILES

TOTAL LENGTH OF FEDERAL PROJECT NO. STP-0115(105) = 2,465 LIN. FT. OR 0.467 MILES

NEW JERSEY DEPARTMENT OF TRANSPORTATION
2007 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
(US CUSTOMARY ENGLISH UNITS) WITH AMENDMENTS AND CURRENT
SUPPLEMENTARY SPECIFICATIONS THERETO TO GOVERN

NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD ROADWAY CONSTRUCTION - TRAFFIC CONTROL - BRIDGE CONSTRUCTION DETAILS BOOKLET 2007, AND STANDARD ELECTRICAL DETAILS BOOKLET, 2007, AND UPDATES BY BASELINE DOCUMENT CHANGES (BDC'S http://www.state.nj.us/transportation/eng/documents/BDC/) ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

"CHANGES MADE TO THESE PLANS SINCE SIGNATURE BY THE CONSULTANT MAY BE DETERMINED BY COMPARISON OF THE PLANS FILED AT THE CAPE MAY COUNTY DEPARTMENT OF PUBLIC WORKS WITH THOSE FILED AT THE OFFICE OF URBAN ENGINEERS, INC."

URBAN ENGINEERS, INC
CERTIFICATE OF AUTHORIZATION NO 24GA28033900

STEVEN B. LOCKE, P.E. 11/2/12 DATE
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO 24GE02452630

Approved by _____ 11-7-12
Director, Cape May County Board of Chosen Freeholders — Date

Recommended by _____ 08/24/2012
Cape May County Engineer — Date

1105201212

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

SEQUENCE NO.	ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	PLAN SHEET TOTALS	IF AND WHERE DIRECTED	AS-BUILT QUANTITY	DISTRIBUTION: PLAN SHEET QUANTITY
1	151003M	PERFORMANCE BOND AND PAYMENT BOND	L.S.	L.S.		L.S.		
2	153009P	BAR CHART PROGRESS SCHEDULE AND UPDATES	L.S.	L.S.		L.S.		
3	157003M	CONSTRUCTION LAYOUT	L.S.	L.S.		L.S.		
4	158030M	INLET FILTER TYPE 2, 2'X4'	UNIT	14	14			DES-2 9 DES-3 2 DES-4 3
5	158033M	INLET FILTER TYPE 2, 4'X4'	UNIT	22	22			DES-1 1 DES-2 9 DES-3 9 DES-4 3
6	158063P	CONCRETE WASHOUT SYSTEM	L.S.	L.S.		L.S.		
7	158072M	OIL ONLY EMERGENCY SPILL KIT, TYPE 1	UNIT	1		1		
8	159003M	BREAKAWAY BARRICADE	UNIT	20		20		
9	159006M	DRUM	UNIT	100		100		
10	159009M	TRAFFIC CONE	UNIT	100		100		
11	159012M	CONSTRUCTION SIGNS	S.F.	500		500		
12	159027M	FLASHING ARROW BOARD, 4'X8'	UNIT	2		2		
13	159030M	PORTABLE VARIABLE MESSAGE SIGN	UNIT	2		2		
14	159126M	TEMPORARY TRAFFIC STRIPES, 4"	L.F.	10,700		10,700		
15	159141M	TRAFFIC DIRECTOR, FLAGGER	HOUR	360		360		
16	160003M	FUEL PRICE ADJUSTMENT	L.S.	L.S.		L.S.		
17	160006M	ASPHALT PRICE ADJUSTMENT	L.S.	L.S.		L.S.		
18	201003P	CLEARING SITE	L.S.	L.S.		L.S.		
19	202003P	STRIPPING	ACRE	1		1		
20	202006M	EXCAVATION, TEST PIT	C.Y.	50		50		
21	202009P	EXCAVATION, UNCLASSIFIED	C.Y.	3,169		3,169		
22	203006P	I-7 SOIL AGGREGATE	C.Y.	1,770		1,770		
23	302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	12,887	11,715	1,172		C-2 37 C-3 6,527 C-4 5,098 C-5 53
24	401009P	HMA MILLING, 3" OR LESS	S.Y.	23,882	23,882			C-2 7,990 C-3 8,493 C-4 6,414 C-5 985
25	401027M	POLYMERIZED JOINT ADHESIVE	L.F.	16,000		16,000		
26	401030M	TACK COAT	GAL.	3,500		3,500		
27	401036M	PRIME COAT	GAL.	5,200		5,200		
28	401054M	HOT MIX ASPHALT 12.5 M 64 SURFACE COURSE	TON	4,291	3,901	390		C-2 958 C-3 1,660 C-4 1,140 C-5 143
29	401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	TON	4,623	4,211	421		C-2 27 C-3 2,275 C-4 1,840 C-5 69
30	401108M	CORE SAMPLES, HOT MIX ASPHALT	UNIT	30		30		
31	601000P	14" X 23" REINFORCED CONCRETE ELLIPTICAL PIPE, CLSS HE-V	L.F.	833	833			DES-2 707 DES-4 126
32	601630P	14" X 23" REINFORCED CONCRETE ELLIPTICAL PIPE, CLSS HE-IV	L.F.	1104	1104			DES-1 30 DES-2 756 DES-3 318
33	601631P	3' ADDITIONAL DEPTH CONSTRUCTION FOR 14" x 23" PIPE	L.F.	209	209			DES-2 83 DES-4 126
34	9Z99Z	NO ITEM						
35	602012M	INLET, TYPE B	UNIT	5	5			DES-2 5
36	602018M	INLET, TYPE E	UNIT	19	19			DES-2 9 DES-3 6 DES-4 4
37	602024M	INLET, TYPE B-1	UNIT	1	1			DES-2 1
38	9Z99Z	NO ITEM						
39	602032M	3' ADDITIONAL DEPTH TYPE B INLET CONSTRUCTION	UNIT	5	5			DES-2 5
40	602043M	3' ADDITIONAL DEPTH TYPE E INLET CONSTRUCTION	UNIT	5	5			DES-2 1 DES-4 4
41	602059M	3' ADDITIONAL DEPTH STORM MANHOLE CONSTRUCTION	UNIT	2	2			DES-2 2
42	602060M	MANHOLE, 6' DIAMETER	UNIT	2	2			DES-2 2
43	602096M	INLET CONVERTED TO MANHOLE	UNIT	1	1			DES-3 1
44	602099M	RESET EXISTING CASTING	UNIT	9	9			DES-2 1 DES-3 8
45	602129M	RECONSTRUCTED INLET, TYPE E, USING EXISTING CASTING	UNIT	1	1			DES-1 1
46	602000M	RECONSTRUCTED INLET, SPECIAL, USING EXISTING CASTING	UNIT	1	1			DES-2 1
47	602180M	RECONSTRUCTED MANHOLE, USING EXISTING CASTING	UNIT	3	3			DES-2 2 DES-3 1
48	602189M	EXTENSION FRAME FOR EXISTING INLET, TYPE B	UNIT	1	1			DES-2 1
49	606001P	CONCRETE PAVER SIDEWALK	S.Y.	139	139			C-4 139
50	606002P	CONCRETE PAVER CROSSWALK	S.Y.	971	971			C-3 498 C-4 281 C-5 192
51	606012P	CONCRETE SIDEWALK, 4" THICK	S.Y.	6,097	6,097			C-2 140 C-3 3,459 C-4 2,397 C-5 83
52	606018P	CONCRETE SIDEWALK, 6" THICK	S.Y.	234	234			C-2 14 C-3 28 C-4 161 C-5 31
53	606027P	CONCRETE SIDEWALK, REINFORCED, 8" THICK	S.Y.	56	56			C-3 56
54	606051P	CONCRETE DRIVEWAY, 6" THICK	S.Y.	439	439			C-2 10 C-3 24 C-4 279 C-5 126
55	606060P	CONCRETE DRIVEWAY, REINFORCED, 8" THICK	S.Y.	78	78			C-3 78
56	606084P	DETECTABLE WARNING SURFACE	S.Y.	29	29			C-3 16 C-4 9 C-5 4
57	607018P	9"X16" CONCRETE VERTICAL CURB	L.F.	605	605			C-4 365 C-5 240
58	607021P	9"X18" CONCRETE VERTICAL CURB	L F.	6,093	6,093			C-2 166 C-3 3,697 C-4 2,230
59	610003M	TRAFFIC STRIPES, LONG LIFE, EPOXY RESIN 4"	L.F.	15,460		15,460		
60	610009M	TRAFFIC MARKINGS, THERMOPLASTIC	S.F.	1,790		1,790		
61	610036M	REMOVAL OF TRAFFIC STRIPES	L.F.	5,500		5,500		
62	610039M	REMOVAL OF TRAFFIC MARKINGS	S.F.	500		500		
63	612003P	REGULATORY AND WARNING SIGN	S.F.	400.5		400.5		
64	651001M	RESET WATER METER BOX	UNIT	5	5			UC-2 5
65	651001P	WATER UTILITY RELOCATION	L.S.	1	1			UC-1 1
66	651243M	WATER SERVICE CONNECTION	UNIT	10	0	10		
67	651255M	RESET WATER VALVE BOX	UNIT	15	15			UC-1 1 UC-2 9 UC-3 5
68	652001M	RESET SANITARY SEWER CLEANOUT	UNIT	3	3			UC-2 2 UC-3 1
69	652417M	SANITARY SEWER SERVICE CONNECTION	UNIT	10	0	10		
70	652432M	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING	UNIT	5	5			UC-1 1 UC-2 3 UC-3 1
71	653001P	GAS UTILITY RELOCATION	L.S.	1	1			UC-1 1
72	653081M	GAS SERVICE CONNECTION	UNIT	10	0	10		
73	653084M	RESET GAS VALVE BOX	UNIT	4	4			UC-2 1 UC-3 3

CAPE MAY COUNTY DEPARTMENT OF ENGINEERING

ESTIMATE-DISTRIBUTION OF QUANTITIES

PROJECT : JFK BOULEVARD / VETERANS BOULEVARD (C.R. 625)
ROADWAY IMPROVEMENTS

URBAN ENGINEERS, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA28033900
STEVEN B LOCKE — DATE 11/2/12
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO 45263

EDOG-1
EDOG-2

Urban Engineers, Inc., Cherry Hill, New Jersey

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

SEQUENCE NO.	ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	PLAN SHEET TOTALS	IF AND WHERE DIRECTED	AS-BUILT QUANTITY	DISTRIBUTION: PLAN SHEET QUANTITY										
74	701198P	MULTIPLE LIGHTING WIRE, NO.6 AWG	L.F.	11,000	11,000			SS-1 11,000										
75	701001P	SERVICE WIRE, NO.4 AWG	L.F.	150	150			SS-1 150										
76	701002M	TREE GRATE ELECTRICAL OUTLET	UNIT	74	74			SS-6 7	SS-7 28	SS-8 31	SS-9 8							
77	701003M	STREET LIGHT TYPE A, COMPLETE, LIGHITNG STANDARD, LUMINAIRE, AND FOUNDATION	UNIT	27	27			SS-7 9	SS-8 18									
78	701004M	STREET LIGHT TYPE B, COMPLETE, LIGHITNG STANDARD, BANNER ARMS, LUMINAIRE, AND FOUNDATION	UNIT	62	62			SS-6 7	SS-7 22	SS-8 20	SS-9 13							
79	701005M	BOLLARD LIGHT, COMPLETE WITH FOUNDATION	UNIT	58	58			SS-6 2	SS-7 22	SS-8 10	SS-9 24							
80	701006M	BOLLARD UNLIT, COMPLETE WITH FOUNDATION	UNIT	6	6			SS-5 6										
81	701027P	2" RIGID NONMETALLIC CONDUIT	L.F.	75	75			E-1 5	E-2 15	E-4 55								
82	701030P	3" RIGID NONMETALLIC CONDUIT	L.F.	1,235	1,235			E-1 365	E-2 370	E-4 500								
83	701042P	2" FLEXIBLE NONMETALLIC CONDUIT	L.F.	7,250	7,250			SS-1 7,250										
84	701044P	¾" FLEXIBLE NONMETALLIC CONDUIT	L.F.	2,000	2,000			SS-1 2,000										
85	701099M	17" X 30" JUNCTION BOX	UNIT	15	15			E-1 5	E-2 5	E-4 5								
86	701123M	FOUNDATION, TYPE SFT	UNIT	2	2			E-1 1	E-4 1									
87	701132M	FOUNDATION, TYPE P-MC	UNIT	3	3			E-1 1	E-2 1	E-4 1								
88	701135M	FOUNDATION, TYPE SPF	UNIT	9	9			E-1 1	E-2 4	E-4 4								
89	701138M	FOUNDATION, TYPE STF	UNIT	9	9			E-1 3	E-2 4	E-4 2								
90	701144M	FOUNDATION, TYPE SFK	UNIT	1	1			E-4 1										
91	701171M	METER CABINET, TYPE TL	UNIT	5	5			E-1 1	E-2 1	E-4 1	SS-7 1	SS-8 1						
92	701192M	GROUND WIRE, NO.8 AWG	L.F.	1,525	1,525			E-1 495	E-2 540	E-4 490								
93	701193M	GROUND WIRE, NO.10 AWG	L.F.	950	950			SS-1 950										
94	701213P	SERVICE WIRE, NO.6 AWG	L.F.	575	575			E-1 130	E-2 165	E-4 280								
95	702001M	PRE-EMPTION DETECTOR	UNIT	1	1			E-1 1										
96	702009M	CONTROLLER, 8 PHASE	UNIT	3	3			E-1 1	E-2 1	E-4 1								
97	702012M	TRAFFIC SIGNAL STANDARD, ALUMINUM	UNIT	3	3			E-1 1	E-4 2									
98	702015M	TRAFFIC SIGNAL STANDARD, STEEL	UNIT	9	9			E-1 3	E-2 4	E-4 2								
99	702018M	PEDESTRIAN SIGNAL STANDARD	UNIT	9	9			E-1 1	E-2 4	E-4 4								
100	702021M	TRAFFIC SIGNAL MAST ARM, ALUMINUM	UNIT	3	3			E-1 1	E-4 2									
101	702024M	TRAFFIC SIGNAL MAST ARM, STEEL	UNIT	9	9			E-1 3	E-2 4	E-4 2								
102	702027M	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	L.F.	2,080	2,080			E-1 230	E-2 1,150	E-4 700								
103	702030M	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	L.F.	3,240	3,240			E-1 670	E-2 1,290	E-4 1,280								
104	702033M	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	L.F.	3,920	3,920			E-1 825	E-2 1,470	E-4 1,625								
105	702036M	TRAFFIC SIGNAL HEAD	UNIT	33	33			E-1 9	E-2 12	E-4 12								
106	702039M	PEDESTRIAN SIGNAL HEAD	UNIT	20	20			E-1 4	E-2 8	E-4 8								
107	702042M	PUSH BUTTON	UNIT	10	10			E-1 2	E-2 4	E-4 4								
108	702045M	IMAGE DETECTOR	UNIT	10	10			E-1 2	E-2 4	E-4 4								
109	702060M	CONTROLLER TURN-ON	UNIT	3	3			E-1 1	E-2 1	E-4 1								
110	804001P	BACKFILL MIX	C.Y.	101	101			SS-2 1.8	SS-3 37	SS-4 60	SS-5 6							
111	804006P	TOPSOILING, 4" THICK	S.Y.	160	160			C-3 160										
112	804015P	BORROW TOPSOIL	C.Y.	150		150												
113	806006P	FERTILIZING AND SEEDING, TYPE A-3	S.Y.	160	160			C-3 160										
114	806018P	FERTILIZING AND SEEDING, TYPE F	S.Y.	20		20												
115	808003P	SODDING	S.Y.	2090	1669	421		C-3 1320	C-4 349									
116	809003M	STRAW MULCHING	S.Y.	160	160			C-3 160										
117	809010M	STONE MULCHING, ⅝" DIA. PEA GRAVEL, TREE GRATE MULCH, 4" THICK	C.Y.	11	11			SS-2 1	SS-3 4.2	SS-4 5	SS-5 1							
118	809016M	SHREDDED HARDWOOD BARK MULCHING, 4" THICK	S.Y.	1,105	1,105			SS-3 366.7	SS-4 738									
119	811002M	LARGE DECIDUOUS TREE, CARPINUS BETULUS 'FASTIGIATA', PYRAMIDAL EUROPEAN HORNBEAM, 3" CAL., 14-16' HT., B&B	UNIT	74	74			SS-2 7	SS-3 28	SS-4 31	SS-5 8							
120	811089M	EVERGREEN SHRUB, JUNIPERUS CHINENSIS VAR. SARGENTII, SARGENT JUNIPER, 18-24" HT., 5 GAL. CONTAINER	UNIT	192	192			SS-3 60	SS-4 132									
121	811200M	DECIDUOUS SHRUB, MYRICA PENSYLVANICA, BAYBERRY, 24-30" HT., 5 GAL. CONTAINER	UNIT	43	43			SS-3 18	SS-4 25									
122	811201M	DECIDUOUS SHRUB, PRUNUS MARITIMA, BEACH PLUM, 24-30" HT., 5 GAL. CONTAINER	UNIT	43	43			SS-3 8	SS-4 35									
123	811202M	DECIDUOUS SHRUB, ROSA 'RADRAZZ', 'RADRAZZ' KNOCKOUT ROSE, 24-30" HT., 5 GAL. CONTAINER	UNIT	84	84			SS-3 33	SS-4 51									
124	811203M	DECIDUOUS SHRUB, PANICUM VIRGATUM 'CHEYENNE SKY', RED SWITCH GRASS, 18-24" HT., 5 GAL. CONTAINER	UNIT	47	47			SS-3 3	SS-4 44									
125	811204M	DECIDUOUS SHRUB, PENNISETUM ORIENTALE 'KARLEY ROSE', 'KARLEY ROSE' FOUNTAIN GRASS, 18-24' HT., 5 GAL. CONTAINER	UNIT	50	50			SS-3 24	SS-4 26									
126	811205M	DECIDUOUS SHRUB, LIRIOPE MUSCARI 'VARIEGATA', VARIEGATED LILYTURF, 3 GAL. CONTAINER	UNIT	171	171			SS-3 96	SS-4 75									
127	811206M	DECIDUOUS SHRUB, PENNISETUM ALOPECUROIDES 'LITTLE BUNNY', 'LITTLE BUNNY' FOUNTAIN GRASS, 3 GAL. CONTAINER	UNIT	119	119			SS-3 45	SS-4 74									
128	811207M	DECIDUOUS SHRUB, VACCINIUM ANGUSTIFOLIUM, LOWBUSH BLUEBERRY, 3 GAL. CONTAINER	UNIT	69	69			SS-3 12	SS-4 57									
129	811208M	TREE GRATE	UNIT	74	74			SS-2 7	SS-3 28	SS-4 31	SS-5 8							
130	811209M	BENCH	UNIT	18	18			SS-3 7	SS-4 11									
131	811210M	BIKE RACK	UNIT	4	4			SS-3 2	SS-4 2									
132	811211M	IRRIGATION SYSTEM DESIGN AND INSTALLATION	L.S.	L.S.		L.S.												
133	811212M	TREE WATERING SYSTEM	UNIT	74	74			SS-2 7	SS-3 28	SS-4 31	SS-5 8							
134	701204P	MULTIPLE LIGHTING WIRE, NO. 10 AWG	L.F.	2250	2250			SS-1 2250										
135	701167P	ELECTRIC SERVICE AND CONTROL PANELS	L.S.	L.S.		L.S.												
136	701109M	12"x12"x18" D JUNCTION BOX	UNIT	24	24			SS-1 24										
137	701126M	FOUNDATION, TYPE MCF	UNIT	4	4			SS-1 4										
138	609024M	FLARED GUIDE RAIL TERMINAL	UNIT	2	2			C-2 2										
139	609063M	RESET BEAM GUIDE RAIL WITH EXISTING POSTS	L.F.	312.5	312.5			C-2 312.5										
140		TRAINEES	HOUR	300		300												

CAPE MAY COUNTY DEPARTMENT OF ENGINEERING

ESTIMATE-DISTRIBUTION OF QUANTITIES

PROJECT : JFK BOULEVARD / VETERANS BOULEVARD (C.R. 625)
ROADWAY IMPROVEMENTS

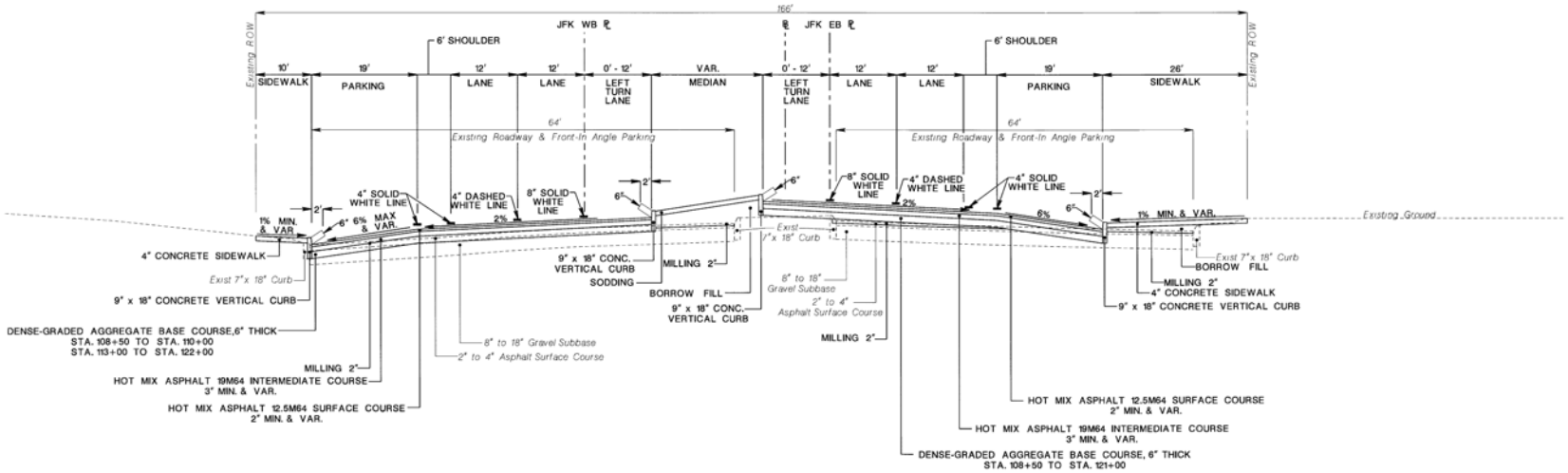
URBAN ENGINEERS, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA28033900

STEVEN B. LOCKE — DATE 7/12/12
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 45263

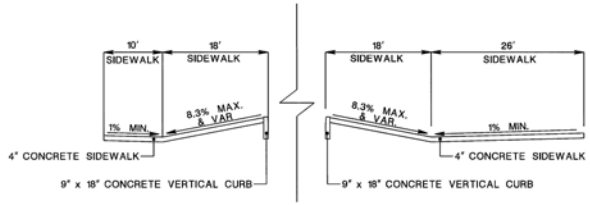
EDOG-2 / EDOG-2

Urban Engineers, Inc., Cherry Hill, New Jersey

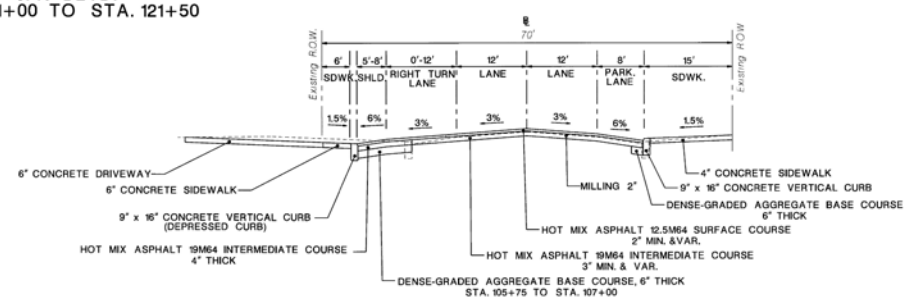
STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



JFK BLVD.
STA. 111+00 TO STA. 121+50



BULB-OUT TREATMENT
(WHERE SHOWN ON PLANS)



LANDIS AVENUE
STA. 106+00 TO STA. 108+00

TYPICAL SECTION TS-1

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:
IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. — 55 HADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: N.T.S. | SHEET 4 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/18/12

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

STANDARD LEGEND

- WATER MAIN
- GAS MAIN
- PHONE LINE
- EXISTING / PROPOSED STORM SEWER
- EXISTING / PROPOSED MANHOLE
- RESET / RECONSTRUCT MANHOLE
- EXISTING / PROPOSED INLET
- RESET / RECONSTRUCT INLET
- FIRE HYDRANT
- GUY WIRE
- BENCH
- PEDESTRIAN SIGNAL
- UTILITY POLE
- SIGN
- TREE
- EXISTING / PROPOSED CURB
- CENTER LINE (2+00)
- PROPERTY LINE
- EXISTING DRIVEWAY
- TRAFFIC SIGNAL
- EXISTING GRADE (4.77)
- PROPOSED GRADE (4.87)
- CUT / FILL LINE - LIMIT OF GRADING (C) (C) (F) (F)
- MILLING

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
2. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. ALL PAVED AND CONCRETE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
5. ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH TOPSOIL, FERTILIZING, SEEDING AND MULCHING, UNLESS DIRECTED BY RE TO USE SOD.
6. ALL FILL SHALL BE PLACED IN 12 INCH (MAX.) LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROWED FILL IS REQUIRED, IT SHALL BE CLEAN GRANULAR SOIL AND IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES. CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY MARKOUT.
8. A BASELINE HAS BEEN PROVIDED ON THE PLANS AND ESTABLISHED IN THE FIELD. THE CONSULTANT WILL LOCATE THE CONSTRUCTION LINE IN ACCORDANCE WITH THE BASELINE AND CONSTRUCTION LINE AS SHOWN ON THE PLANS AT OR ABOUT THE TIME OF THE PRECONSTRUCTION MEETING.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXCESS MATERIAL FROM THE JOB SITE AND PROVIDE CERTIFICATION THAT THE MATERIAL HAS BEEN PROPERLY DISPOSED OF.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION LAYOUT OF THE PROJECT
11. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY, PRIOR TO CONSTRUCTION, OF ANY CONFLICTS OR DISCREPANCIES WHICH EXIST.
12. EXISTING ROOF DRAINS WHICH PROJECT THROUGH CURBS ARE TO REMAIN AND NEW CONCRETE CURB AND SIDEWALK SHALL BE POURED AROUND EXISTING ROOF DRAINS WHERE REQUIRED.
13. CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS AS REQUIRED WITH THE APPLICABLE UTILITY COMPANIES.
14. WHEN INSTALLING CONCRETE SIDEWALK BEHIND THE CURB THE CONTRACTOR SHALL SAW CUT THE EXISTING CONCRETE SIDEWALK IN LINE WITH THE LANDSCAPE STRIP WHEN NO JOINTS EXIST.
15. ALL ELEVATIONS SHOWN ARE BASED UPON NAVD88.
16. ENGINEER MAY REVISE PIPE INVERTS AND LOCATIONS DURING CONSTRUCTION TO AVOID OR LIMIT UTILITY CONFLICTS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY INVERTS WITH EXCAVATION, TEST PIT, SEQUENCE NO. 20, PRIOR TO ORDERING PRECAST BOXES, INLETS OR MANHOLES.
17. TEMPORARY PAVEMENT MARKERS SHALL BE PERFORMED BY THE CONTRACTOR. INCLUDE COST IN SEQUENCE NO. 14.
18. RESETTING OF VERIZON TELEPHONE MANHOLE CASTINGS IF ENCOUNTERED, SHALL BE PERFORMED BY THE TELEPHONE COMPANY. CONTRACTOR IS RESPONSIBLE AND SHALL COORDINATE WITH UTILITY TO ENSURE THIS WORK IS COMPLETED. NO PAY ITEM EXISTS IN THIS CONTRACT FOR RESETTING OF THESE SPECIALIZED TELEPHONE MANHOLE CASTINGS
19. EXACT LIMIT OF WORK FOR MILLING, ASPHALT, SIDEWALK, DRIVEWAY APRONS AND CURB SHALL BE SET IN THE FIELD BY THE ENGINEER.
20. ACCESS TO PROPERTIES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES
21. THE CONTRACTOR IS REQUIRED TO CONSTRUCT ANY CONCRETE STEPS NECESSARY FOR ACCESS TO ENTRANCE LOCATIONS OF PROPERTIES IMPACTED BY CONSTRUCTION. SEPARATE PAYMENT WILL NOT BE MADE TO CONSTRUCT CONCRETE STEPS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE ITEM, CONCRETE SIDEWALK, 4" THICK BASED UPON THE HORIZONTAL SURFACE AREA OF THE CONCRETE STEPS. THE CONCRETE STEP SHALL BE CONSTRUCTED IN A SIMILAR FASHION AS THE EXISTING STEPS AND SHALL MEET ALL APPLICABLE BUILDING CODES FOR LANDING AREA, STEP OVER RUN AND HEIGHT.
22. CURB RAMPS AND SIDEWALKS THAT ARE CONSTRUCTED NOT IN COMPLIANCE WITH ADA ACCESSIBILITY REQUIREMENTS INCLUDING MAXIMUM RUNNING SLOPES, MAXIMUM CROSS SLOPES, LANDING AREA LOCATION AND SIZE, DIVERGING SIDEWALK DROP OFF PROTECTION, BLENDED TRANSITION RUNNING SLOPES AND CROSS SLOPES, FLARE WIDTHS, GRADE BREAKS AND GRADE BREAK DIRECTIONS, CLEAR SPACE SIZE AND LOCATION, WILL NOT BE ACCEPTED.
23. EXISTING PARKING METERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER THE ITEM CLEARING SITE. CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CITY OF SEA ISLE.
24. IMPLEMENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
25. IMPLEMENT STANDARD MEASURES FOR CONTROL OF CONSTRUCTION-RELATED NOISE AND AIR QUALITY (DUST, EMISSIONS) IMPACTS.
26. PROPOSED NEW INLETS, RECONSTRUCTED INLETS, AND EXISTING INLETS THAT COME IN CONTACT WITH RESURFACING, REPAVING, OR PAVEMENT RECONSTRUCTION OR ALTERATIONS MUST MEET THE NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM (NJPDES) REQUIREMENTS.
27. DEVIATIONS FROM THE PROPOSED WORK LISTED UNDER SECTION II.B OF THE APPROVED CATEGORICAL EXCLUSION DOCUMENT (PROPOSED IMPROVEMENTS) WILL NEED TO BE RE-EVALUATED AS A SEPARATE CATEGORICAL EXCLUSION BY NJDOT-BEPR.
28. BEST MANAGEMENT PRACTICES (INCLUDING, BUT NOT LIMITED TO, INSTALLATION OF SILT FENCE, INLET PROTECTION, AND PERIODIC INLET CLEANOUT OF DEBRIS) WILL BE UTILIZED DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STORMWATER INLETS AND ENVIRONMENTALLY SENSITIVE AREAS.
29. CONSTRUCTION STAGING ACTIVITIES (INCLUDING STORAGE OF EQUIPMENT, VEHICLES, AND MATERIALS) ARE PROHIBITED IN ENVIRONMENTALLY SENSITIVE AREAS. IF THE CONTRACTOR INTENDS TO USE OR ACCESS THESE AREAS, ALL APPROPRIATE PERMITS AND APPROVALS MUST BE OBTAINED PRIOR TO SUCH USE OR ACCESS
30. OBTAIN AND COMPLY WITH APPLICABLE ENVIRONMENTAL PERMITS. ALL TERMS AND CONDITIONS OF THE ENVIRONMENTAL PERMITS WILL BE ADHERED TO.

ABBREVIATIONS

AVE.	AVENUE
BC	BOTTOM OF CURB
℄	BASELINE
BM	BENCHMARK
BT	BELL TELEPHONE
BIT	BITUMINOUS
BSBC	BITUMINOUS STABILIZED BASE COURSE
℄	CENTERLINE
C	CUT
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
D.C	DEPRESSED CURB
DWY	DRIVEWAY
EL.	ELEVATION
ELEC.	ELECTRIC
EXIST.	EXISTING
FT	FEET
FH	FIRE HYDRANT
G	GAS
GV	GAS VALVE
HDPeP	HIGH DENSITY POLYETHYLENE PIPE
HYD	HYDRANT
JB	JUNCTION BOX
MH.	MANHOLE
N.J.	NEW JERSEY
PK	NAIL IN PAVEMENT
TC	TOP OF CURB
TBRBO	TO BE REMOVED BY OTHERS
WM	WATER METER
WV	WATER VALVE

REVISION	BY	CK'D	DATE

CONSTRUCTION PLANS C-1

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

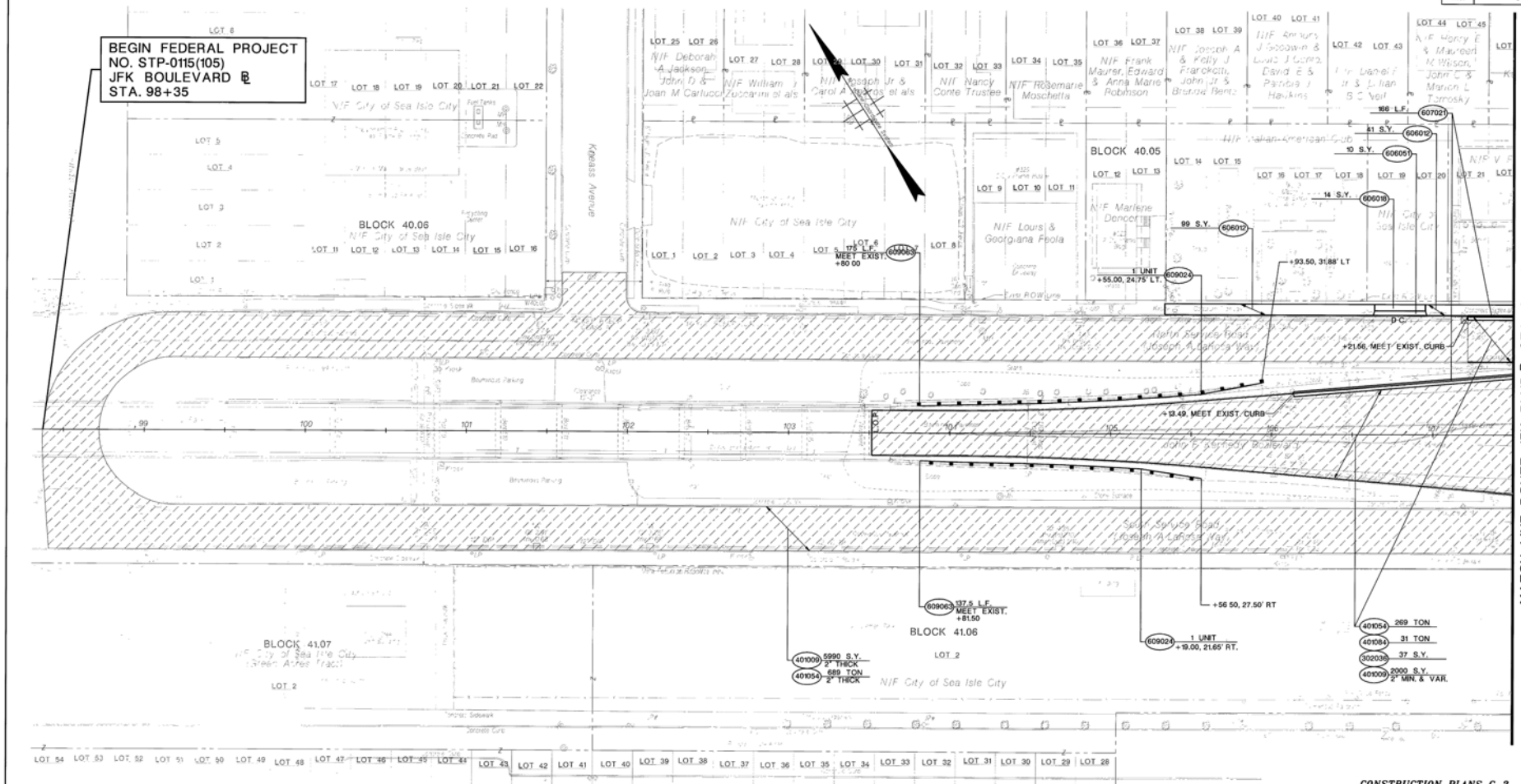
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: NONE | SHEET 3 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 11/21/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
23	302036P	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	37 S.Y.
24	401009P	HMA MILLING, 3" OR LESS	7990 S.Y.
26	401054M	HOT MIX ASPHALT 12.5 M 64 SURFACE COURSE	958 TON
29	401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	27 TON
51	606012P	CONCRETE SIDEWALK, 4" THICK	140 S.Y.
52	606018P	CONCRETE SIDEWALK, 6" THICK	14 S.Y.
54	606051P	CONCRETE DRIVEWAY, 6" THICK	10 S.Y.
58	607021P	9" x 18" CONCRETE VERTICAL CURB	166 L.F.
138	609024M	FLARED GUIDE RAIL TERMINAL	2 UNIT
139	609063M	RESET BEAM GUIDE RAIL WITH EXISTING POSTS	312.5 L.F.

REVISION	BY	CK'D	DATE

CONSTRUCTION PLANS C-2

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

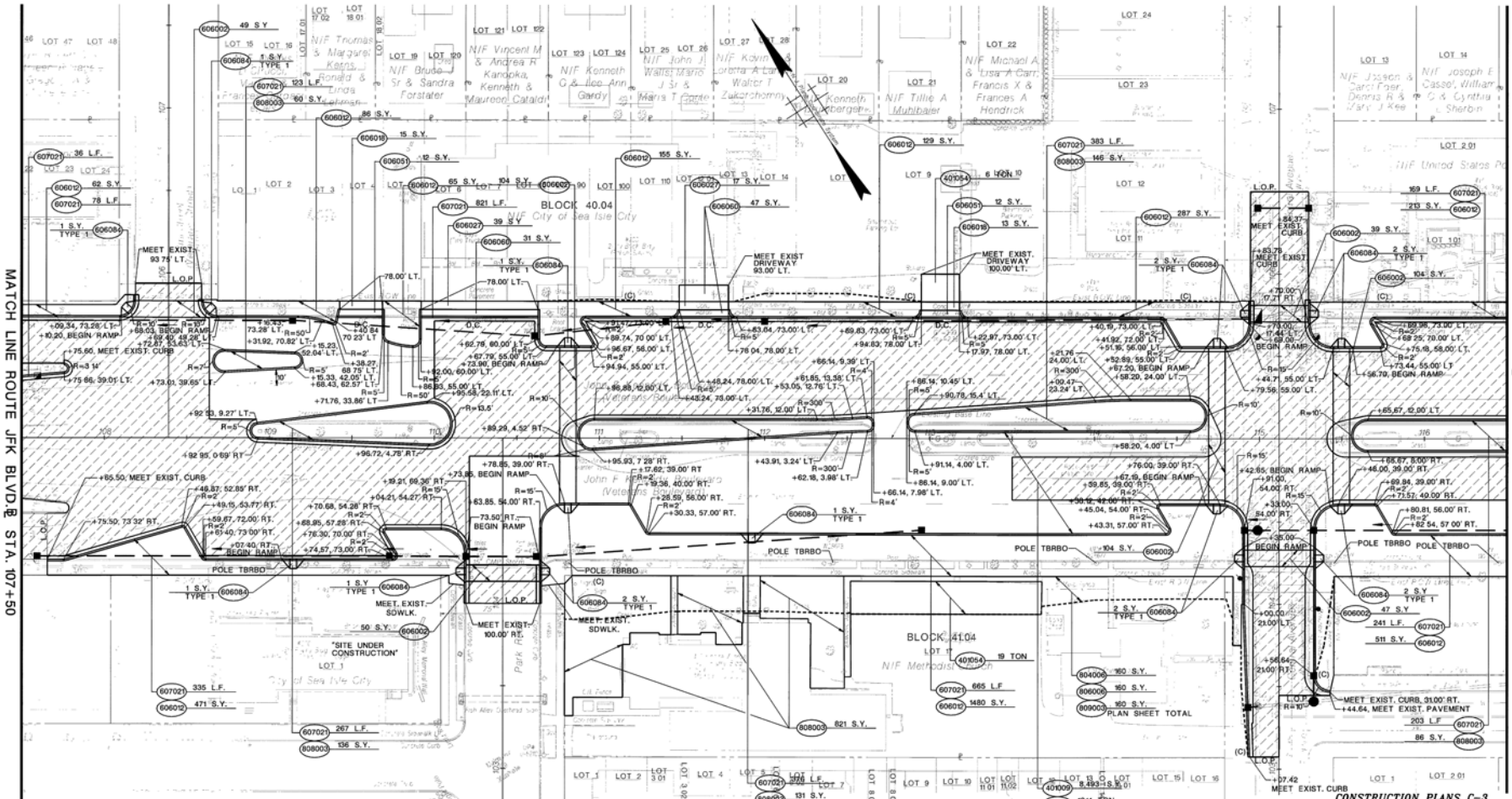
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 6 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/18/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



CONSTRUCTION PLANS C-3

SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
23	302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	6,527 S.Y.
24	401009P	HMA MILLING, 3" OR LESS	8,493 S.Y.
28	401054M	HOT MIX ASPHALT 12.5 M 64 SURFACE COURSE	1660 TON
29	401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	2275 TON
51	606012P	CONCRETE SIDEWALK, 4" THICK	3459 S.Y.
52	606039P	CONCRETE SIDEWALK, 6" THICK	28 S.Y.
53	606027P	CONCRETE SIDEWALK, REINFORCED, 8" THICK	56 S.Y.
54	606051P	CONCRETE DRIVEWAY, 6" THICK	24 S.Y.
55	606060P	CONCRETE DRIVEWAY, REINFORCED, 8" THICK	78 S.Y.
56	606084P	DETECTABLE WARNING SURFACE	16 S.Y.
50	606002P	CONCRETE PAVER CROSSWALK	498 S.Y.
58	607021P	9" x 18" CONCRETE VERTICAL CURB	3697 L.F.
111	804006P	TOPSOILING, 4" THICK	160 S.Y.
113	806006P	FERTILIZING AND SEEDING, TYPE A-3	160 S.Y.
115	808003P	SODDING	1320 S.Y.
116	809003M	STRAW MULCHING	160 S.Y.

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)

City of Sea Isle City, Cape May County, New Jersey

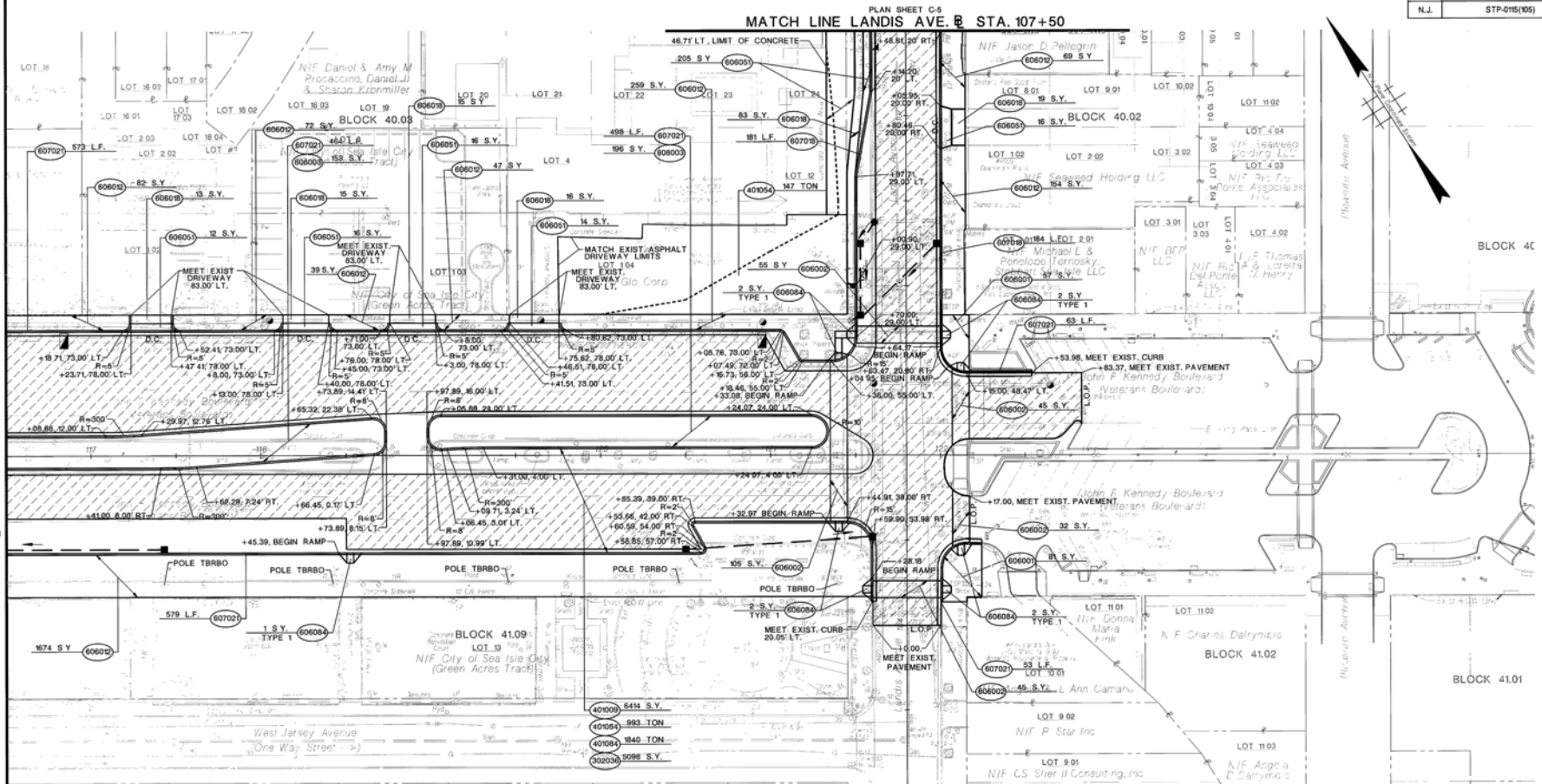
PREPARED BY: URBAN ENGINEERS, INC. — 55 HADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 7 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E., N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/18/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
23	302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	5098 S.Y.
24	401009P	HMA MILLING, 3" OR LESS	6414 S.Y.
28	401054M	HOT MIX ASPHALT 12.5 M 64 SURFACE COURSE	1140 TON
29	401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	1840 TON
51	606012P	CONCRETE SIDEWALK, 4" THICK	2397 S.Y.
52	606018P	CONCRETE SIDEWALK, 6" THICK	161 S.Y.
54	606051P	CONCRETE DRIVEWAY, 6" THICK	279 S.Y.
56	606084P	DETECTABLE WARNING SURFACE	9 S.Y.
49	606001P	CONCRETE PAVER SIDEWALK	139 S.Y.
50	606002P	CONCRETE PAVER CROSSWALK	281 S Y
57	607018P	9" x 16" CONCRETE VERTICAL CURB	365 L.F.
58	607021P	9" x 18" CONCRETE VERTICAL CURB	2230 L.F.
115	608003P	SODDING	349 S.Y

REVISION	BY	CK'D	DATE

CONSTRUCTION PLANS C-4

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

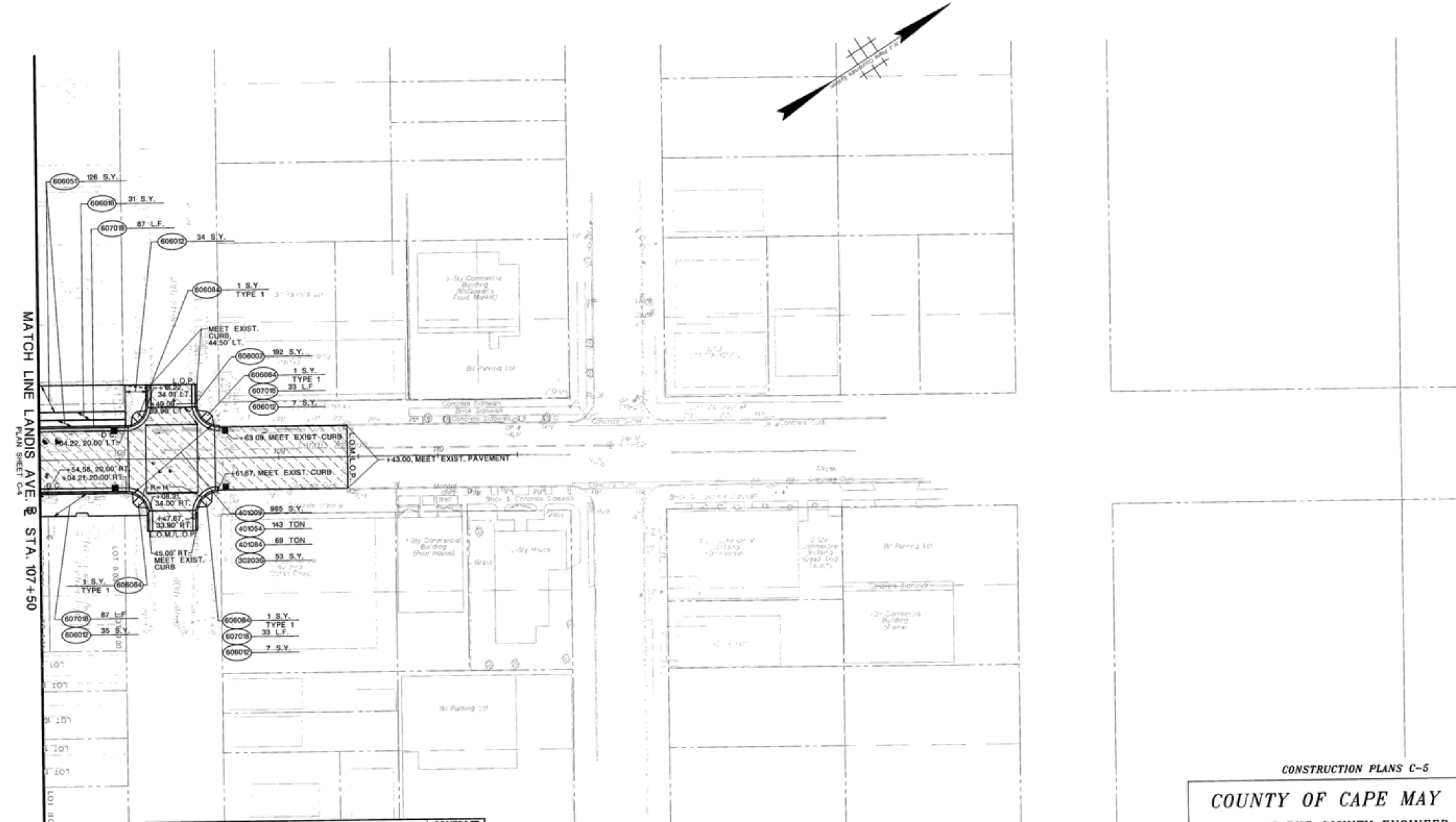
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 8 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/18/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
23	302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	53 S.Y.
24	401009P	HMA MILLING, 3" OR LESS	985 S.Y
28	401054M	HOT MIX ASPHALT 12.5 M 64 SURFACE COURSE	143 TON
29	401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	69 TON
51	606012P	CONCRETE SIDEWALK, 4" THICK	83 S.Y.
52	606018P	CONCRETE SIDEWALK, 6" THICK	31 S.Y.
54	606051P	CONCRETE DRIVEWAY, 6" THICK	126 S.Y.
56	606084P	DETECTABLE WARNING SURFACE	4 S.Y.
50	606002P	CONCRETE PAVER CROSSWALK	192 S.Y.
57	607018P	9" x 16" CONCRETE VERTICAL CURB	240 L.F.

CONSTRUCTION PLANS C-5

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: **IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)**
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD., SUITE 200 CHERRY HILL, NJ 08002-4803

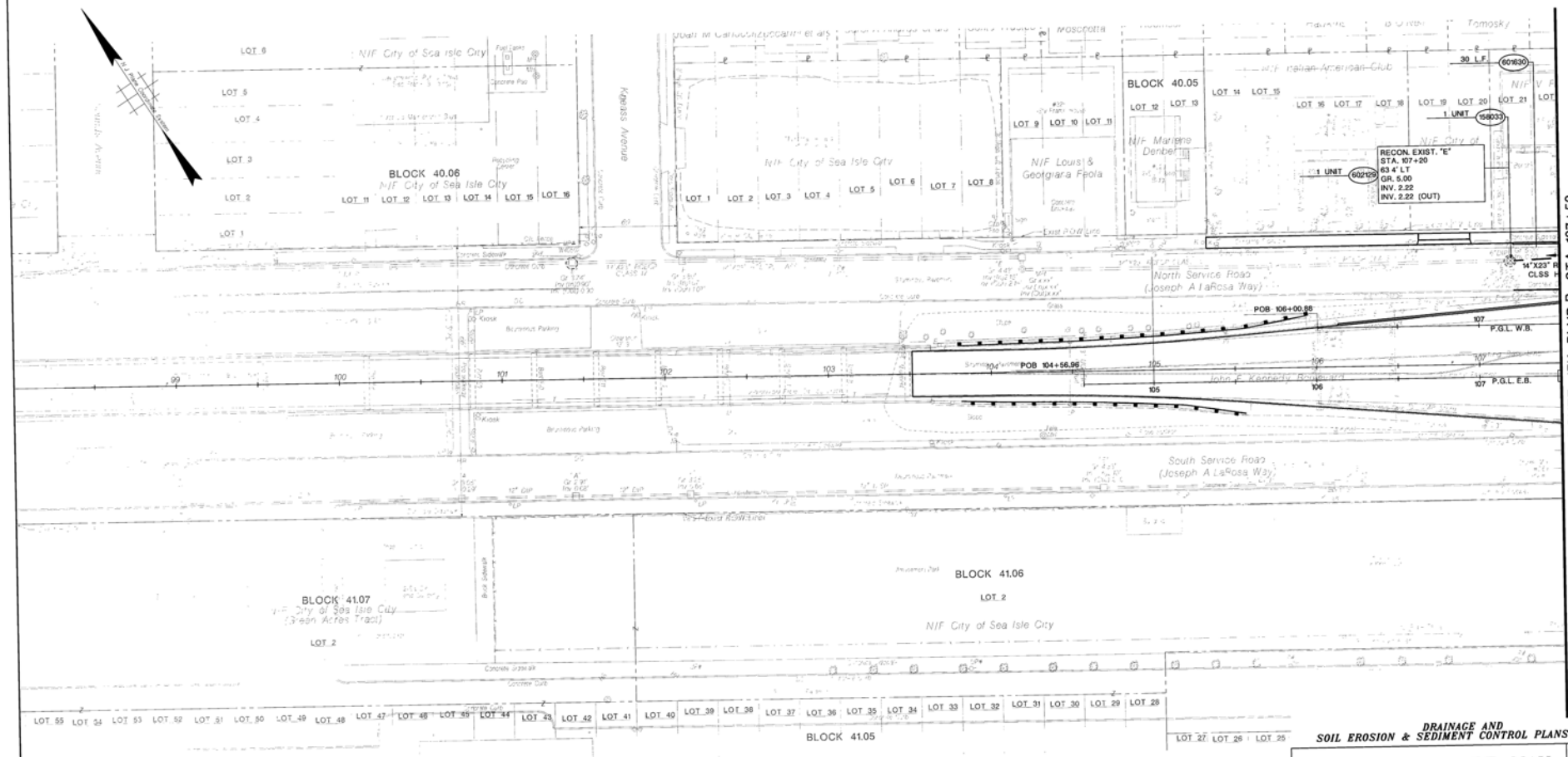
DRAWN: ARB	DATE: JULY 2012	SCALE: 1" = 30'	SHEET 9 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — 7/10/12 DATE

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
5	158033M	INLET FILTER TYPE 2, 4'x4'	1 UNIT
32	601630P	14"x23" REINFORCED CONCRETE ELLIPTICAL PIPE, CLSS HE-IV	30 L.F.
45	602129M	RECONSTRUCTED INLET, TYPE E, USING EXISTING CASTING	1 UNIT

LEGEND

FB — TYPE 2 INLET FILTER

LIMIT OF CONSTRUCTION

LIMIT OF GRADING

30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

DRAINAGE AND SOIL EROSION & SEDIMENT CONTROL PLANS DES-1

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

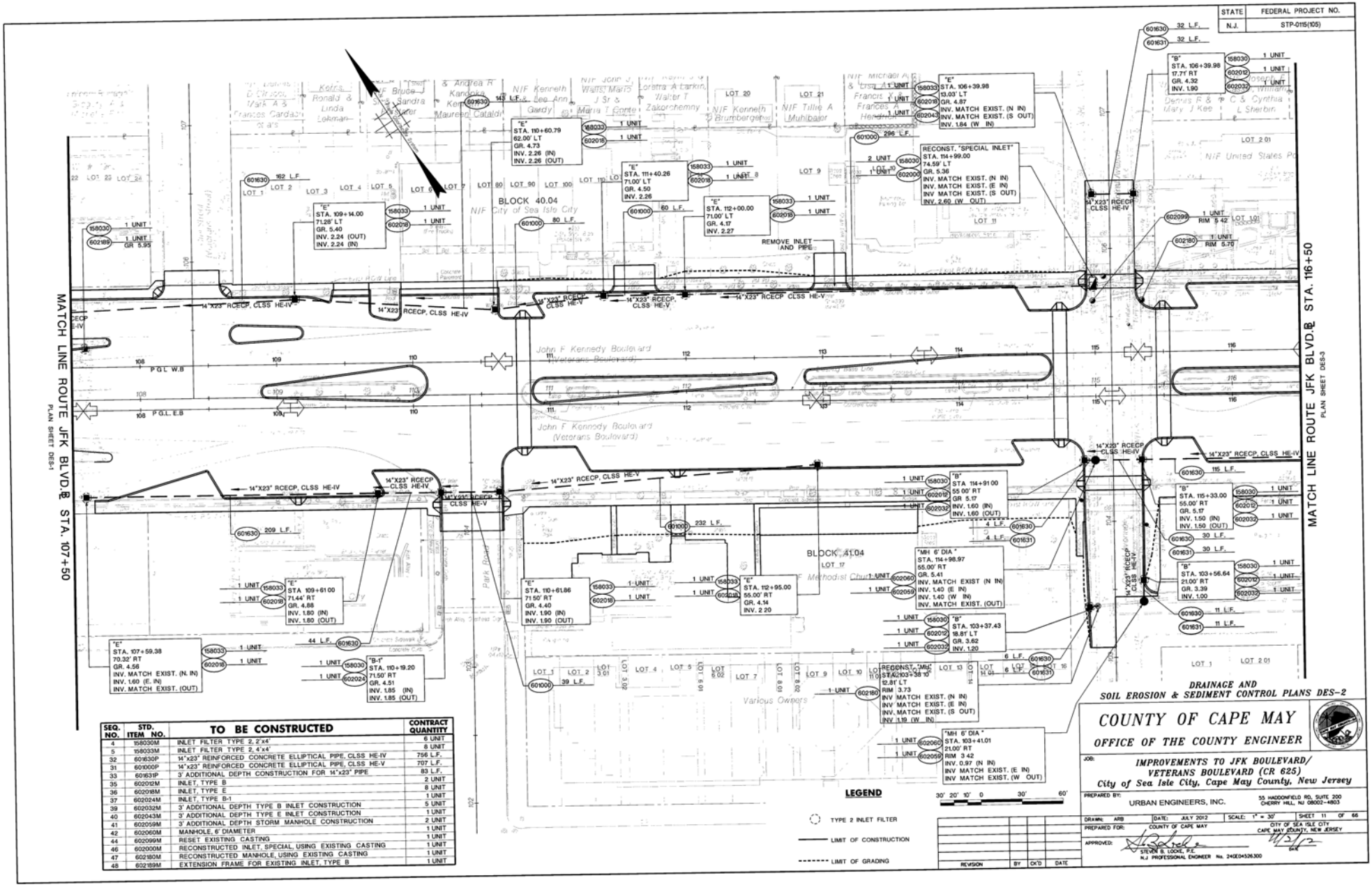
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 10 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCHE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
4	158030M	INLET FILTER TYPE 2, 2'x4'	6 UNIT
5	158033M	INLET FILTER TYPE 2, 4'x4'	8 UNIT
32	601630P	14"x23" REINFORCED CONCRETE ELLIPTICAL PIPE, CLSS HE-IV	756 L.F.
31	601000P	14"x23" REINFORCED CONCRETE ELLIPTICAL PIPE, CLSS HE-V	707 L.F.
33	601631P	3' ADDITIONAL DEPTH CONSTRUCTION FOR 14"x23" PIPE	83 L.F.
35	602012M	INLET, TYPE B	2 UNIT
36	602018M	INLET, TYPE E	8 UNIT
37	602024M	INLET, TYPE B-1	1 UNIT
39	602032M	3' ADDITIONAL DEPTH TYPE B INLET CONSTRUCTION	5 UNIT
40	602043M	3' ADDITIONAL DEPTH TYPE E INLET CONSTRUCTION	1 UNIT
41	602059M	3' ADDITIONAL DEPTH STORM MANHOLE CONSTRUCTION	2 UNIT
42	602060M	MANHOLE, 6' DIAMETER	1 UNIT
44	602099M	RESET EXISTING CASTING	1 UNIT
46	602000M	RECONSTRUCTED INLET, SPECIAL, USING EXISTING CASTING	1 UNIT
47	602180M	RECONSTRUCTED MANHOLE, USING EXISTING CASTING	1 UNIT
48	602189M	EXTENSION FRAME FOR EXISTING INLET, TYPE B	1 UNIT

REVISION	BY	CK'D	DATE

DRAINAGE AND
SOIL EROSION & SEDIMENT CONTROL PLANS DES-2

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 11 OF 66

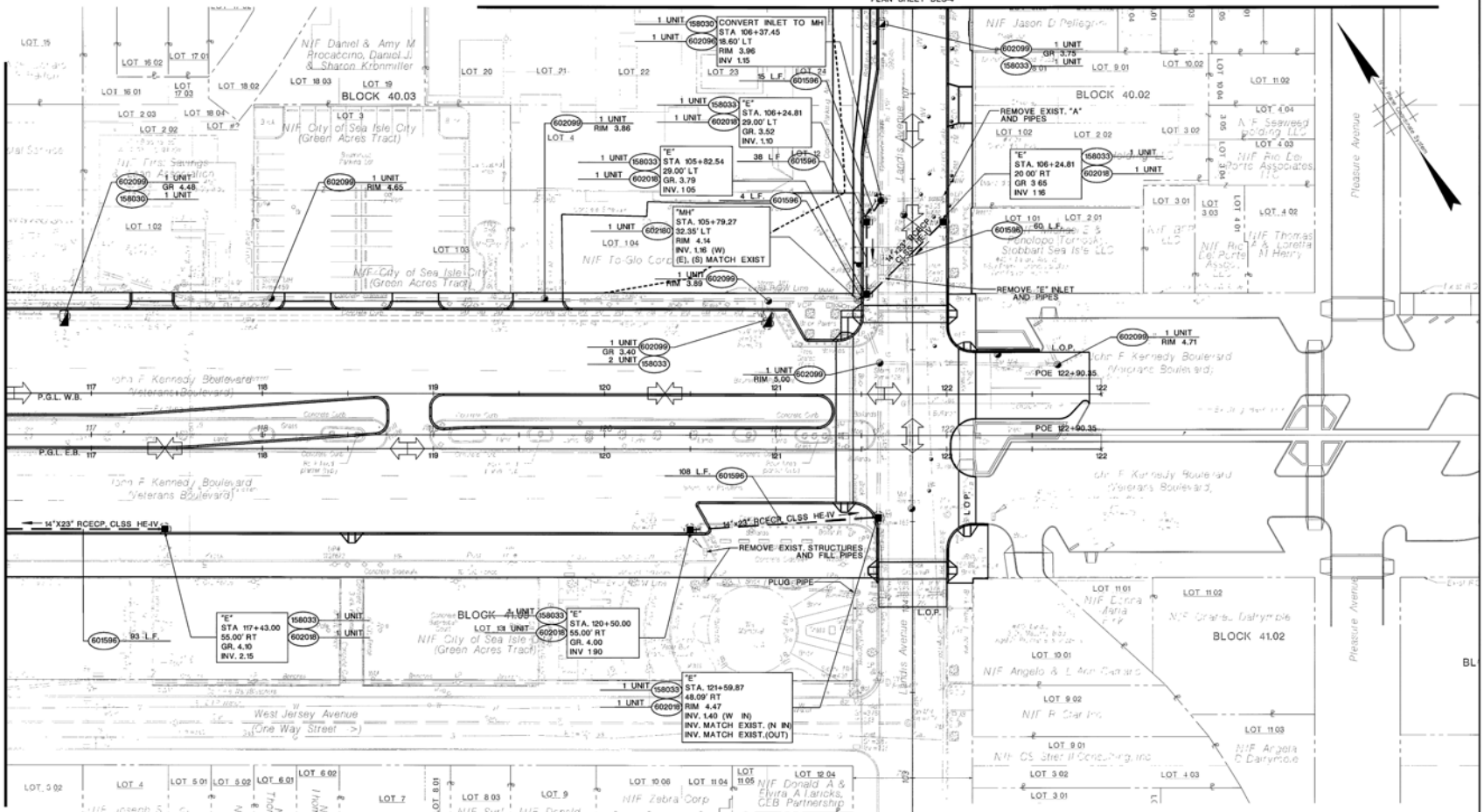
PREPARED FOR: COUNTY OF CAPE MAY | CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

MATCH LINE LANDIS AVE. ℄ STA. 107+50
PLAN SHEET DES-4

MATCH LINE ROUTE JFK BLVD.℄ STA. 116+50
PLAN SHEET DES-2



SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
4	158030M	INLET FILTER TYPE 2, 2'x4'	2 UNIT
5	158033M	INLET FILTER TYPE 2, 4'x4'	9 UNIT
32	601596P	14"x23" REINFORCED CONCRETE ELLIPTICAL PIPE, CLSS HE-IV	318 L.F.
36	602018M	INLET, TYPE E	6 UNIT
43	602096M	INLET CONVERTED TO MANHOLE	1 UNIT
44	602099M	RESET EXISTING CASTING	8 UNIT
47	602180M	RECONSTRUCTED MANHOLE, USING EXISTING CASTING	1 UNIT

LEGEND

- TYPE 2 INLET FILTER
- LIMIT OF CONSTRUCTION
- LIMIT OF GRADING

30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

DRAINAGE AND
SOIL EROSION & SEDIMENT CONTROL PLANS DES-3

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:
IMPROVEMENTS TO JFK BOULEVARD/
VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

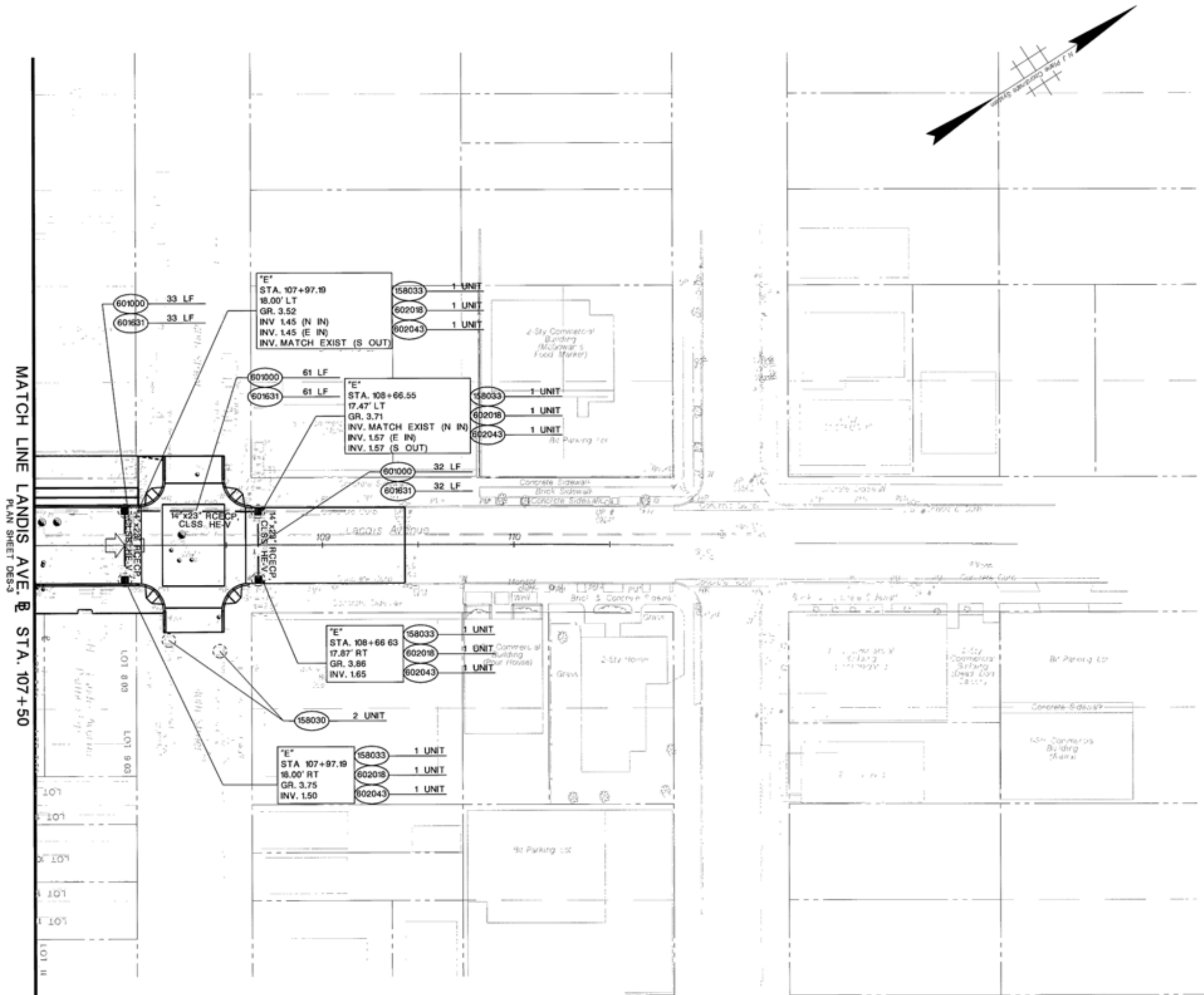
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 12 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
4	158030M	INLET FILTER TYPE 2, 2'x4'	3 UNIT
5	158033M	INLET FILTER TYPE 2, 4'x4'	3 UNIT
31	601000P	14"x23" REINFORCED CONCRETE ELLIPTICAL PIPE, CLSS HE-V	126 LF
33	601631P	3' ADDITIONAL DEPTH CONSTRUCTION FOR 14"x23" PIPE	126 LF
36	602018M	INLET, TYPE E	4 UNIT
40	602043M	3' ADDITIONAL DEPTH TYPE E INLET CONSTRUCTION	4 UNIT

LEGEND

- TYPE 2 INLET FILTER
- LIMIT OF CONSTRUCTION
- LIMIT OF GRADING

DRAINAGE AND
SOIL EROSION & SEDIMENT CONTROL PLANS DES-4

30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY
OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

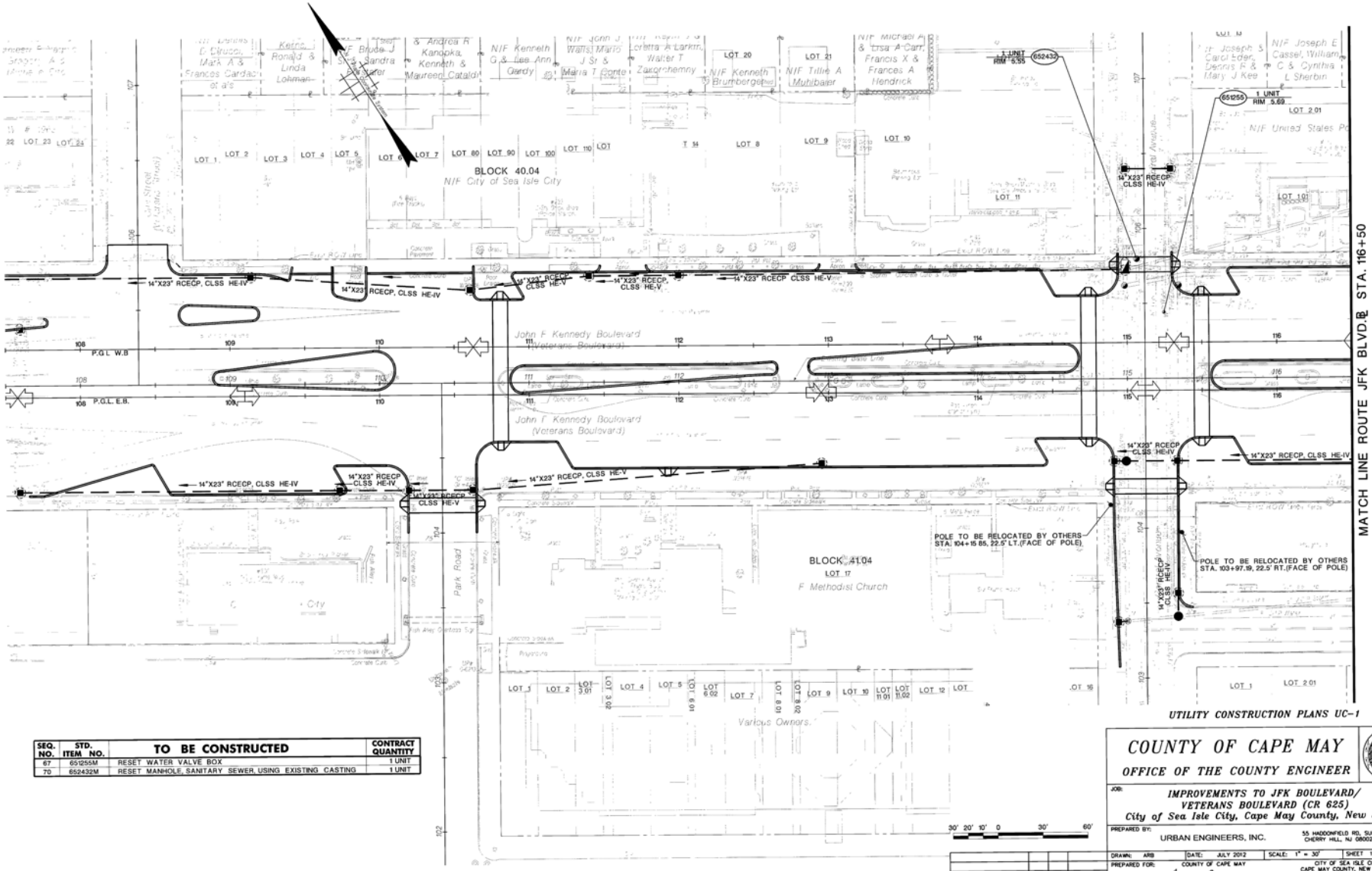
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 13 OF 66

PREPARED FOR: COUNTY OF CAPE MAY | CITY OF SEA ISLE CITY CAPE MAY COUNTY, NEW JERSEY

APPROVED: [signature] 7/12/12
STEVEN B. LOCKE, P.E.
N.J. PROFESSIONAL ENGINEER No. 24GE04526300
DATE

STATE	FEDERAL PROJECT NO.
N.J	STP-0115(105)



UTILITY CONSTRUCTION PLANS UC-1

SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
67	651255M	RESET WATER VALVE BOX	1 UNIT
70	652432M	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING	1 UNIT

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD. SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 14 OF 66

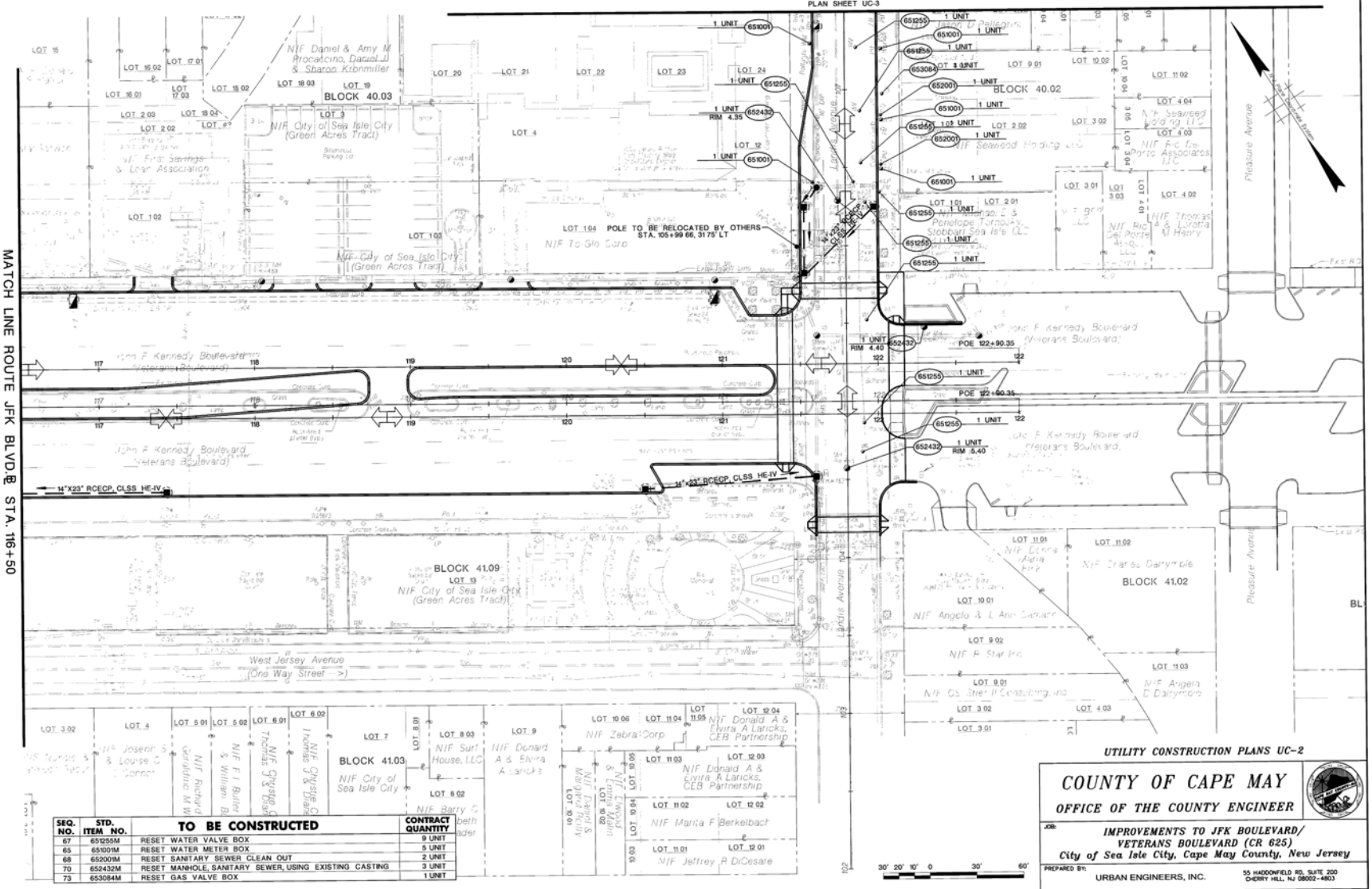
PREPARED FOR: COUNTY OF CAPE MAY | CITY OF SEA ISLE CITY CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 | 4/9/12 DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

MATCH LINE LANDIS AVE. ℄ STA. 107+50
PLAN SHEET UC-3

MATCH LINE ROUTE JFK BLVD ℄ STA. 116+50
PLAN SHEET UC-1



SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
67	651255M	RESET WATER VALVE BOX	9 UNIT
65	651001M	RESET WATER METER BOX	5 UNIT
68	652001M	RESET SANITARY SEWER CLEAN OUT	2 UNIT
70	652432M	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING	3 UNIT
73	653084M	RESET GAS VALVE BOX	1 UNIT

REVISION	BY	CK'D	DATE

UTILITY CONSTRUCTION PLANS UC-2

COUNTY OF CAPE MAY
OFFICE OF THE COUNTY ENGINEER

JOB:
IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

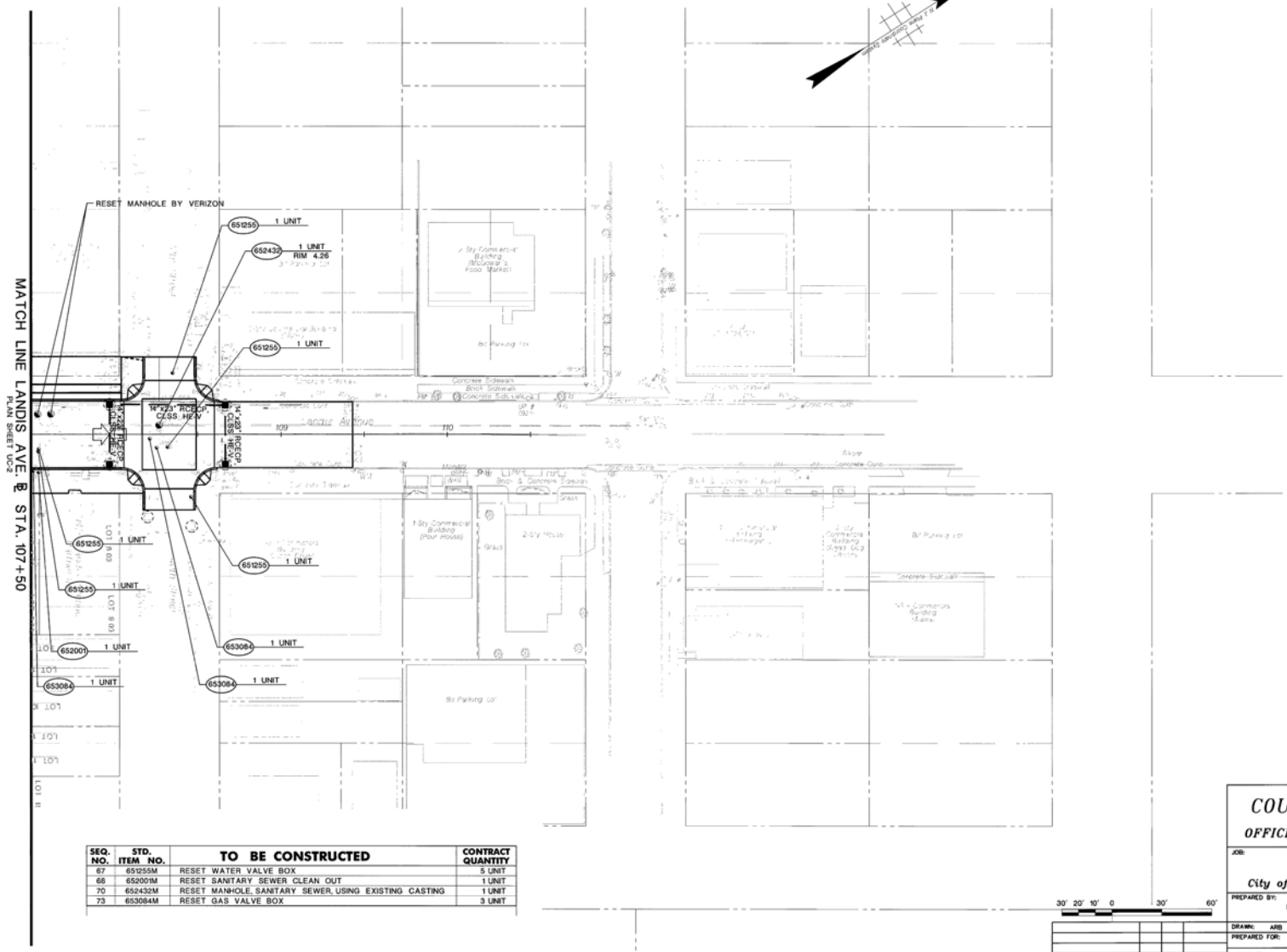
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 15 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/16/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



SEQ. NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
67	651255M	RESET WATER VALVE BOX	5 UNIT
68	652001M	RESET SANITARY SEWER CLEAN OUT	1 UNIT
70	652432M	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING	1 UNIT
73	653084M	RESET GAS VALVE BOX	3 UNIT

REVISION	BY	CK'D	DATE

UTILITY CONSTRUCTION PLANS UC-3

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/
VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

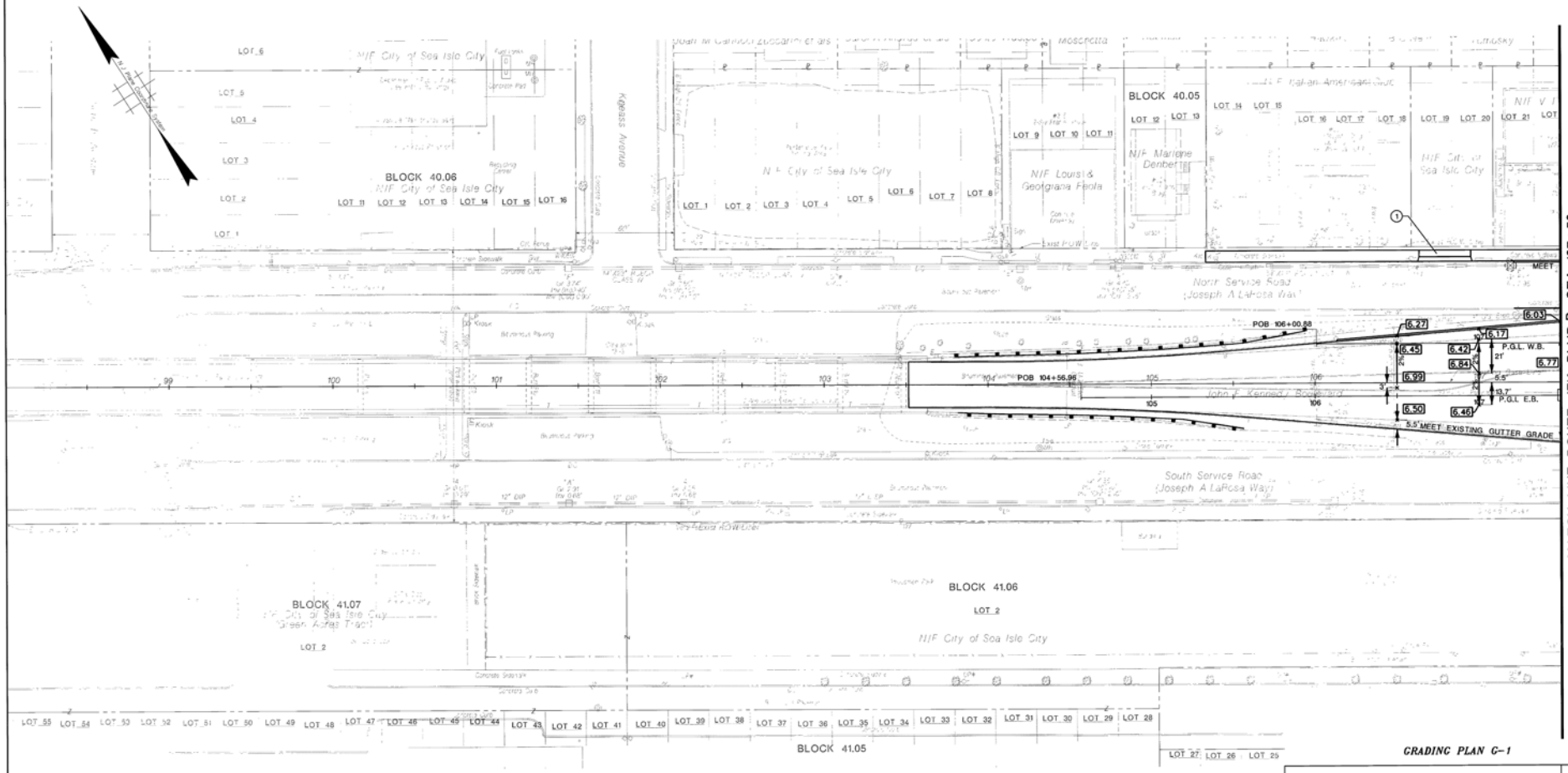
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 16 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/19/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



GRADING PLAN G-1

30' 20' 10' 0 30' 60'

(#) SEE SHEET G-5 FOR DETAILS

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

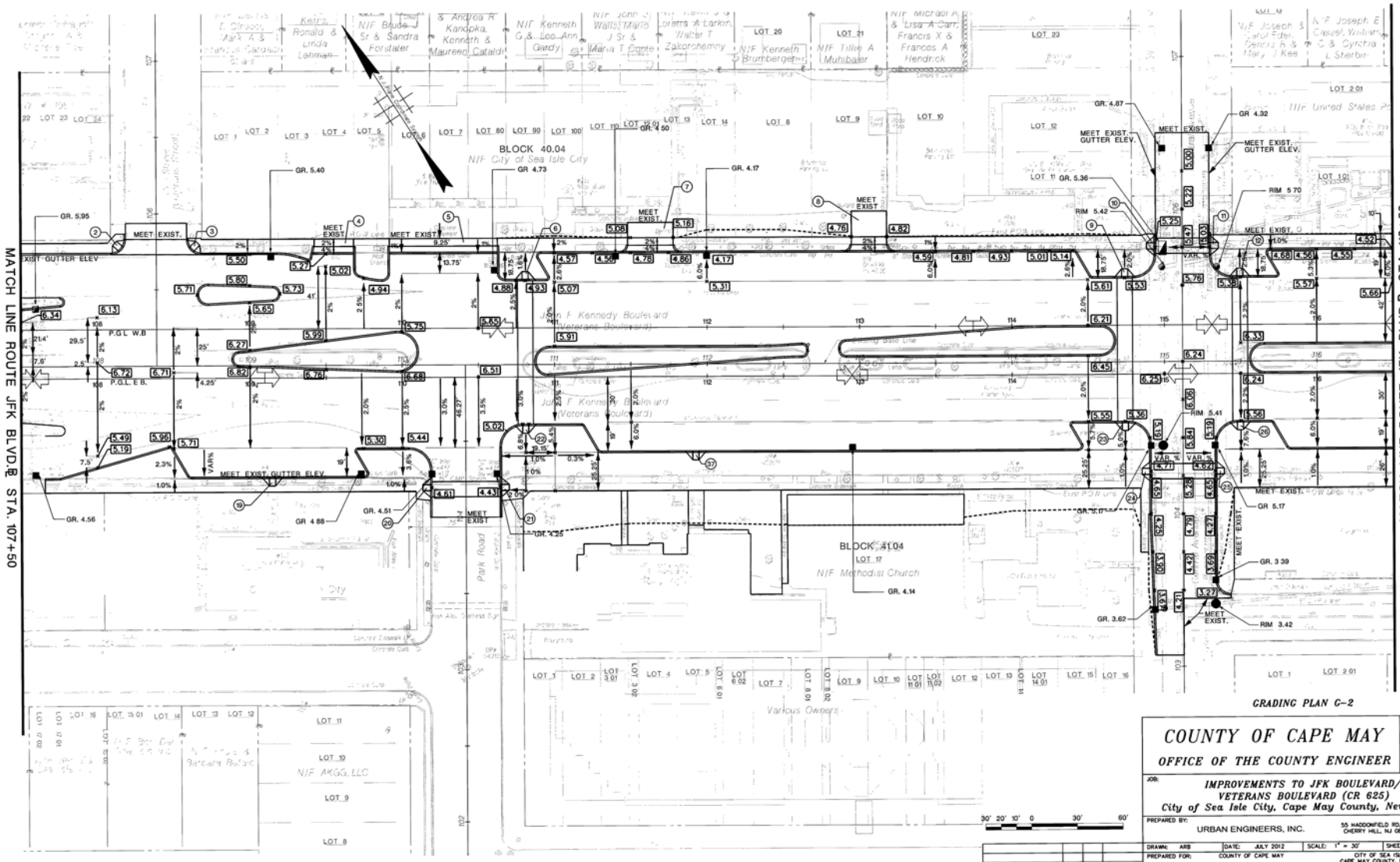
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 17 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/18/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



SEE SHEET G-5 FOR DETAILS

GRADING PLAN G-2

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

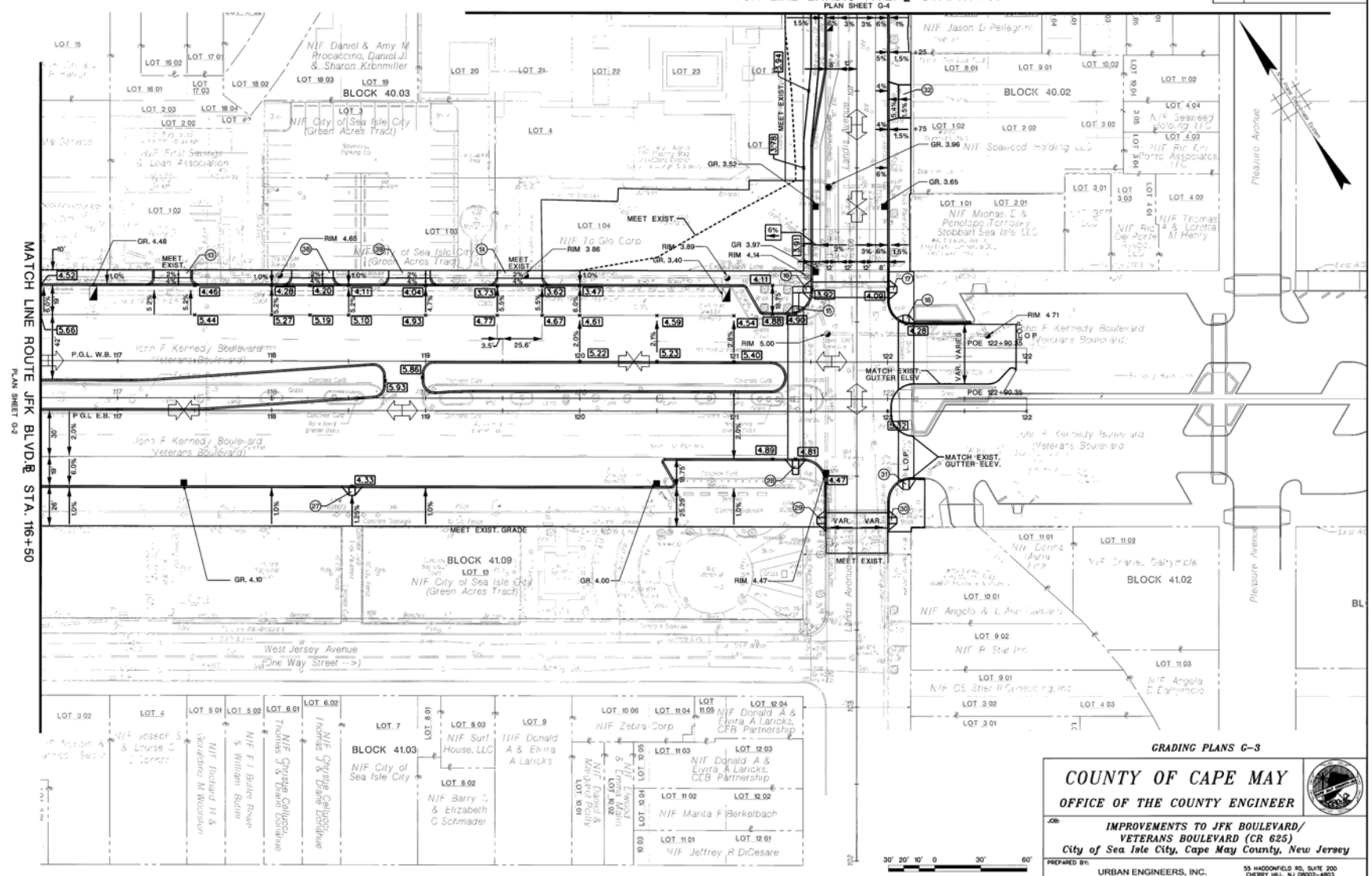
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD. SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 18 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: JOSEPH B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/19/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



GRADING PLANS G-3

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)

City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

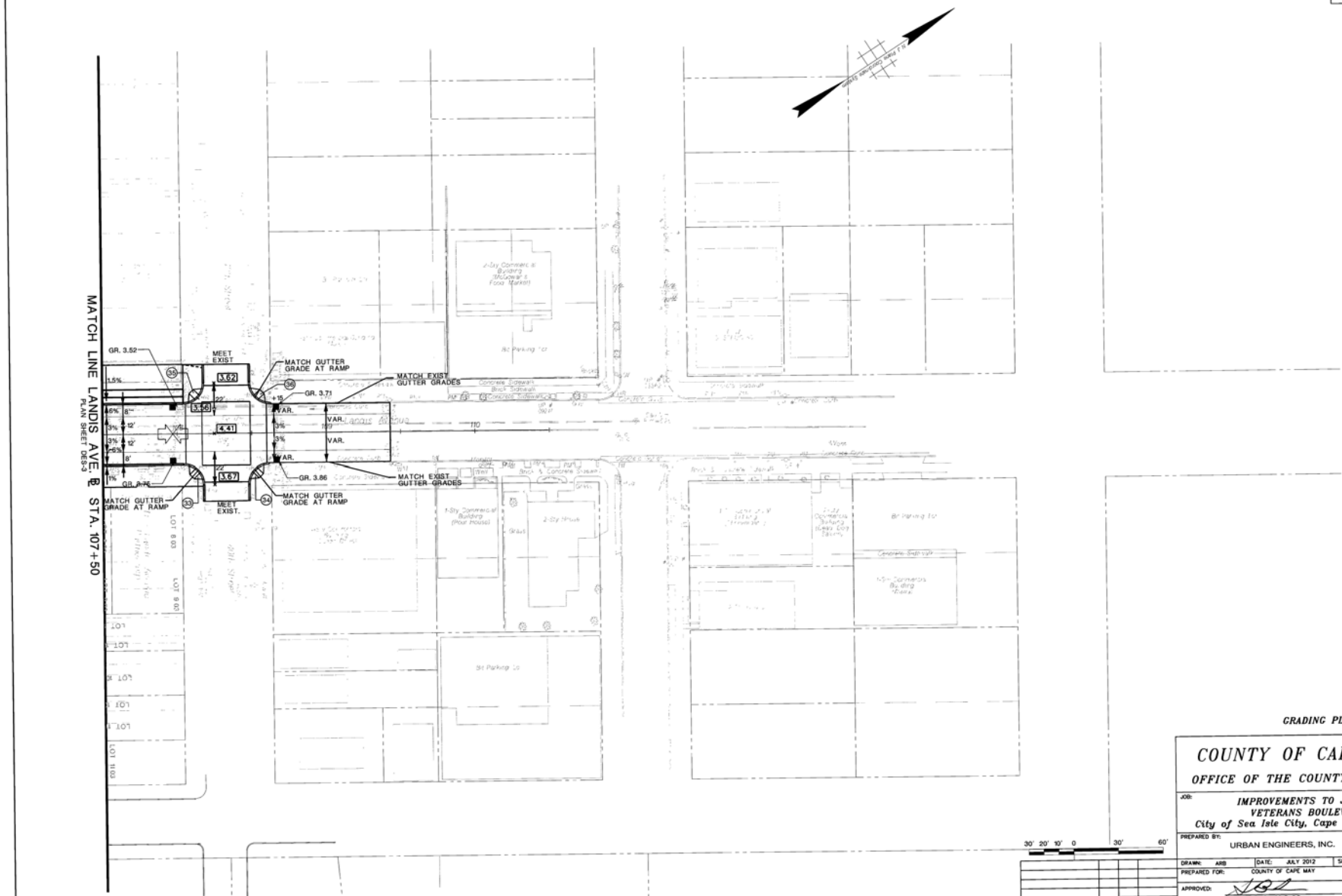
DRAWN: ARB	DATE: JULY 2012	SCALE: 1" = 30'	SHEET 19 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/20/12

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



REVISION	BY	CK'D	DATE

GRADING PLAN C-4

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

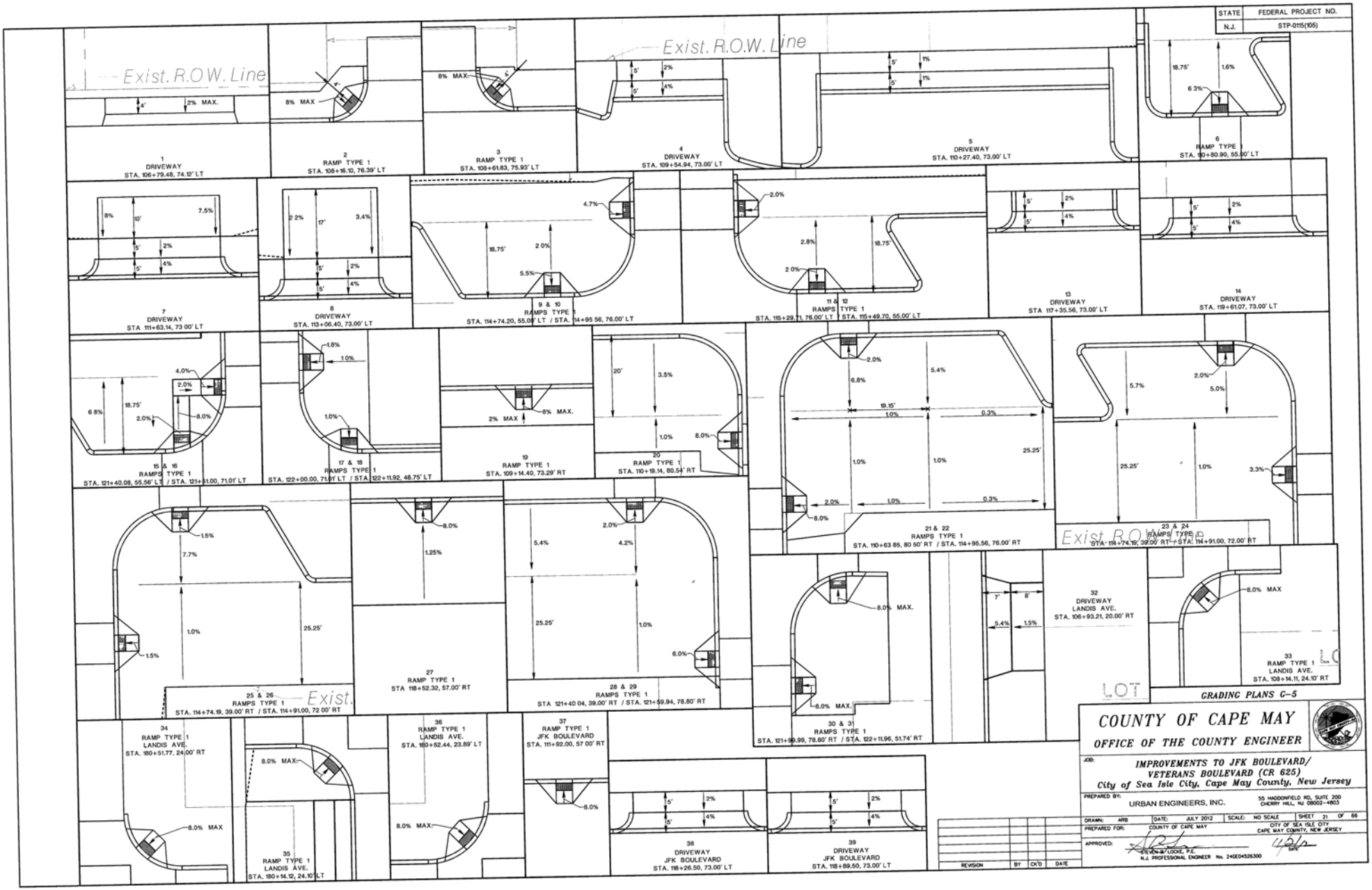
PREPARED BY: URBAN ENGINEERS, INC. 55 MADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 20 OF 66

PREPARED FOR: COUNTY OF CAPE MAY | CITY OF SEA ISLE CITY CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 | DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



GRADING PLANS G-5

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

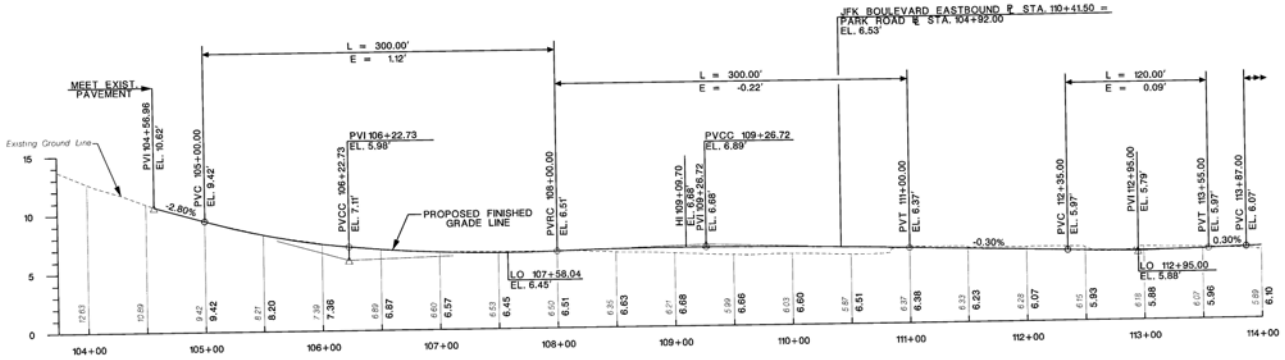
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: NO SCALE | SHEET 21 OF 66

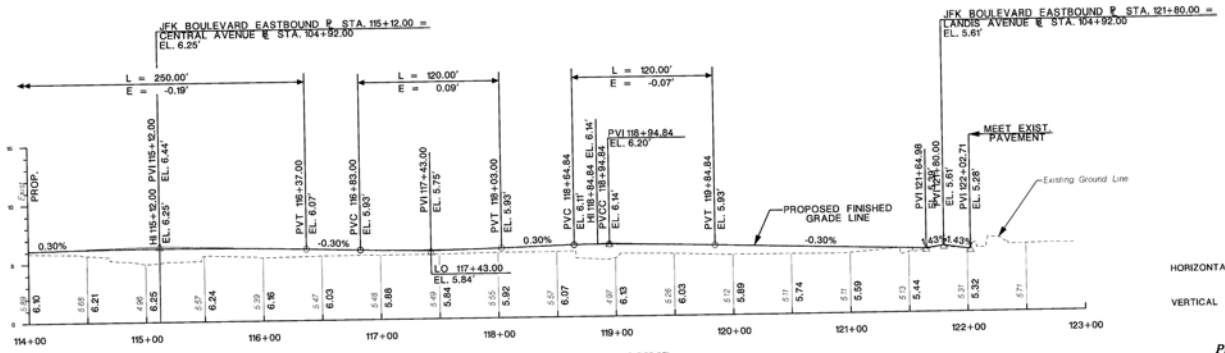
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



JFK BOULEVARD EASTBOUND



JFK BOULEVARD EASTBOUND

HORIZONTAL 50' 0 50' 100'

VERTICAL 5' 0 5' 10'

PROFILES P-1

NOTE:
E = DIFFERENCE BETWEEN THE P.V.I. ELEVATION AND THE VERTICAL CURVE AT THE P.V.I. STATION

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

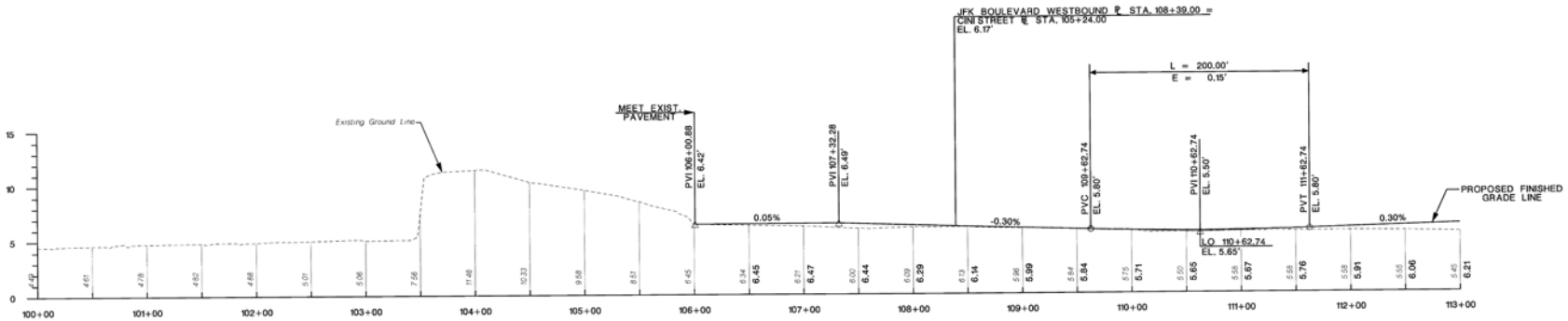
PREPARED BY: URBAN ENGINEERS, INC. — 55 HADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: AS SHOWN | SHEET 22 OF 66

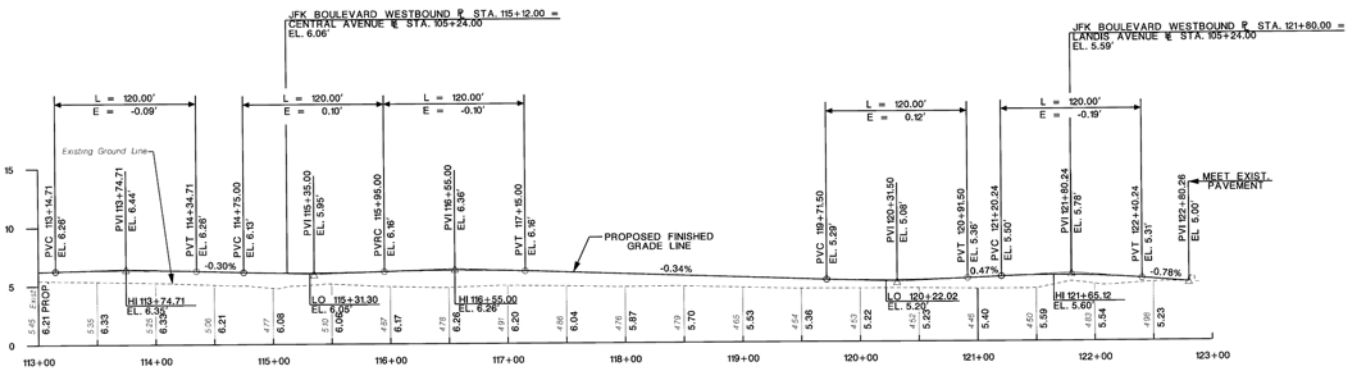
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E., N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/16/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



JFK BOULEVARD WESTBOUND



JFK BOULEVARD WESTBOUND

HORIZONTAL 50' 0 50' 100'

VERTICAL 5' 0 5' 10'

PROFILES P-2

NOTE:
E = DIFFERENCE BETWEEN THE P.V.I. ELEVATION AND THE VERTICAL CURVE AT THE P.V.I. STATION

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:
IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

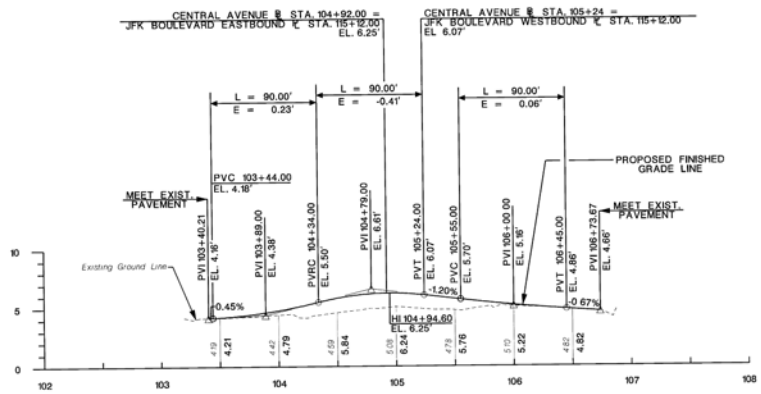
PREPARED BY: URBAN ENGINEERS, INC. — 55 MADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: AS SHOWN | SHEET 23 OF 66

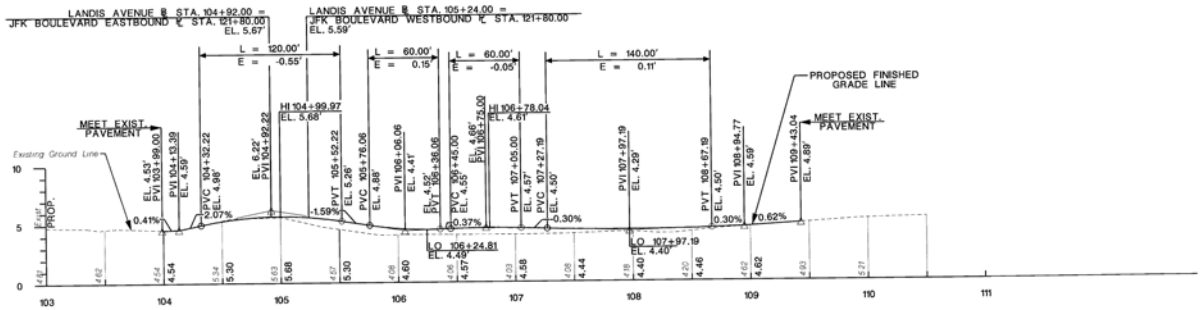
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. — N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — 7/10/12 DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



CENTRAL AVENUE



LANDIS AVENUE

HORIZONTAL 50' 0 50' 100'

VERTICAL 5' 0 5' 10'

PROFILES P-3

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. — 55 HADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: AS SHOWN | SHEET 24 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE

REVISION	BY	CK'D	DATE

NOTE:
E = DIFFERENCE BETWEEN THE P.V.I. ELEVATION AND THE VERTICAL CURVE AT THE P.V.I. STATION

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

LEGEND

- BREAKAWAY BARRICADES
- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS
- DRUMS
- CONE
- PRECAST CONCRETE CURB CONSTRUCTION BARRIER (TYPE SPECIFIED)
- DIRECTION OF TRAFFIC FLOW
- TRAFFIC DIRECTOR, FLAGGER
- TRAILER MOUNTED MOUNTED ARROW BOARD SHOWING CAUTION MODE
- LEFT RIGHT BOTH — ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING ARROW PATTERN (Left, Right, Both)
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING CAUTION MODE
- LEFT RIGHT BOTH — TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (Left, Right, Both)
- TEMPORARY CRASH CUSHION, INERTIAL BARRIER SYSTEM
- TEMPORARY CRASH CUSHION, (all other approved)
- BUFFER ZONE
- WORK AREA
- PAINT STRIPING TRUCK OR OTHER OPERATING VEHICLE

GENERAL NOTES:

1 ADVANCE WARNING SIGNS DISTANCES, AND TAPER LENGTHS MAY BE EXTENDED, AT DIRECTION OF THE DEPARTMENT, TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.

2. THE APPROXIMATE LOCATIONS OF THE ILLUMINATED FLASHING ARROW BOARDS ARE SHOWN ON THE TRAFFIC CONTROL PLANS THESE LOCATIONS MAY BE MODIFIED AS APPROVED BY RE TO ADJUST FOR VISIBILITY DUE TO HORIZONTAL OR VERTICAL CURVATURE OF THE ROADWAY OR TO POSITION AT A SAFER LOCATION. ILLUMINATED FLASHING ARROW BOARDS ARE TO BE USED FOR TEMPORARY LANE CLOSINGS AND AT LOCATIONS SHOWN ON THE TRAFFIC CONTROL PLANS

3. PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE

4. RAMPS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE W20-IF SIGN (ROAD WORK AHEAD) AS A MINIMUM.

5 ALL EXISTING ROAD SIGNS, PAVEMENT MARKINGS AND/OR PLOWABLE PAVEMENT REFLECTORS WHICH CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE COVERED, REMOVED OR RELOCATED AS DIRECTED BY THE RE.

6. CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON EITHER THE EXISTING, TEMPORARY,OR PROPOSED TRAFFIC SIGNAL SYSTEMS SHALL BE BAGGED OR COVERED.

7 MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART VI "STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS", UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS.

8. CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) SHALL BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.

9. A W1-6 (ARROW) SIGN MOUNTED ON A BREAKAWAY BARRICADE AND CENTERED ON THE CLOSED WIDTH SHALL BE LOCATED 100 FEET BEYOND EACH INTERSECTION OR MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE.

10. CONSTRUCTION SIGNS R11-4 (ROAD CLOSED TO THRU TRAFFIC) SHALL BE PLACED AT THE INTERSECTING STREETS WHICH ARE CLOSED TO TRAFFIC BECAUSE OF CONSTRUCTION

11 CONSTRUCTION SIGNS W8-9A (SYMBOL FOR UNEVEN PAVEMENT) AND W8-14A (GROOVED PAVEMENT) SHALL BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST. THE PLACEMENT OF THESE SIGNS SHALL BE AS DIRECTED BY THE RE.

12. MOVING WORK AREAS IN A LANE CLOSURE REQUIRE A TRAILER MOUNTED ILLUMINATED FLASHING ARROW TO REMAIN AT THE END OF THE TAPER, THE TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION THAT SHALL MOVE WITH THE WORK AREAS TO KEEP A 70 FEET MIN AND 150 FEET MAX. BUFFER IN ADVANCE OF EACH WORK AREA.

13. THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE SAFE ACCESS OF CONSTRUCTION VEHICLES THROUGHOUT THE WORK SITE WHERE SPACE CONSTRAINTS PREVENT THE USE OF LANE CLOSURES. THE PLAN SHALL BE SUBMITTED TO THE RE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

14. ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY SHALL BE BACKFILLED AND PLACED ON AT LEAST 6H : 1V SLOPE BEFORE THE END OF EACH WORK DAY. OTHER EXCAVATED AREA WITHIN THE CLEAR ZONE SHALL BE BACKFILLED.

15. WHERE REQUIRED, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE RE

16. BITUMINOUS CONCRETE PLACED DURING THE VARIOUS CONSTRUCTION STAGES SHALL BE TRANSITIONED ON A MINIMUM 20H : 1V SLOPE TO MEET THE ADJACENT EXISTING GRADE AT THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE STAGE CONSTRUCTION AREAS UNLESS OTHERWISE NOTED ON THE STAGE CONSTRUCTION PLANS

17. THE PLACEMENT AND OR RELOCATION OF PRECAST CONCRETE CURB, CONSTRUCTION BARRIER SHALL BE DONE DURING APPROVED OFF-PEAK HOURS WHEN TRAFFIC MAY BE REDUCED TO ONE LANE IN EACH DIRECTION.

18. CONSTRUCTION ZONE SPEED LIMIT WILL BE DETERMINED BY THE TRAFFIC SIGNAL & SAFETY ENGINEERING, REGIONAL TRAFFIC ENGINEER - WORK ZONE, AT THE TIME OF OR DURING CONSTRUCTION, AS REQUESTED BY THE R E..

19 THE SPEED LIMIT, R2-1 (BLACK ON WHITE) WITH ADDED WORK ZONE PLATE (BLACK ON ORANGE) SIGNS SHALL BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE TRAFFIC SIGNAL & SAFETY ENGINEERING REGIONAL TRAFFIC ENGINEER - WORK ZONE.

20. THE REDUCED SPEED AHEAD SIGN, W3-5(S) (BLACK ON ORANGE) SHALL BE LOCATED IN ADVANCE OF SPEED LIMIT R2-1 SIGNS WHICH REDUCE THE NORMAL POSTED SPEED LIMIT THROUGH THE CONSTRUCTION ZONE

21. TRAFFIC FINES DOUBLED IN WORK AREA R(NJ)5-17(S) , 4 FEET BY 2.5 FEET SIGN SHALL BE LOCATED 500 FEET AFTER THE FIRST ADVANCE WARNING SIGN, (W20 SERIES) AT EACH WORK AREA LOCATED WITHIN URBAN AREAS. THIS SIGN SHALL ALSO BE USED ON PROJECTS REQUIRING MOVING OPERATIONS IN WHICH CASE THE SIGN SHALL BE MOUNTED ON A SLOW MOVING CONSTRUCTION VEHICLE.

22 THE FINAL HMA SURFACE PAVEMENT SHALL NOT BE CONSTRUCTED UNTIL THE FINAL STAGE OF THE PROJECT UNLESS OTHERWWISE DIRECTED BY THE RE OR INDICATED ON THE PLANS. MANHOLES AND INLETS SHALL BE SET TO FINISHED GRADE AND TEMPORARY PAVEMENT RAMPS ARE TO BE CONSTRUCTED AROUND THEM WITH A MINIMUM 20H : 1V SLOPE IN ALL DIRECTIONS USING HOT MIX ASPHALT PAVEMENT. THIS TEMPORARY MATERIAL WILL BE REMOVED IMMEDIATELY PRIOR TO PLACING THE SURFACE COURSE

23. TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC SHALL BE PLACED AS SHOWN ON PLANS SIGNS SHALL NOT BE PLACED WITHOUT ACTUAL LANE CLOSURES AND SHALL BE IMMEDIATELY REMOVED UPON REMOVAL OF THE CLOSURES.

24 CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE RE

25. TRAFFIC IMPACT NOTICES AND CHANGES

A. TERMS:
WHEN THE FOLLOWING TERMS ARE USED, THE INTENT AND MEANING SHALL BE AS FOLLOWS:

i. IMPACTS TO NORMAL TRAFFIC FLOW - WORK THAT REQUIRES A PORTION OF THE PAVED ROADWAY BEING BLOCKED OR CLOSED WITH SAFETY DEVICES OR VEHICLES, INCLUDING, BUT NOT LIMITED TO, FULL OR PARTIAL LANE CLOSURES, FULL OR PARTIAL RAMP CLOSURES, SHOULDER CLOSURES, MOVING OPERATIONS SUCH AS TRAFFIC STRIPING OR SWEEPING, LANE SHIFTS, OR ALTERNATING TRAFFIC. THIS APPLIES EVEN WHEN DETOURS ARE PROVIDED.

ii. TEMPORARY LANE CLOSURES - WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH IS ROUTINELY SET UP AND REMOVED ON A DAILY BASIS

iii. PERMANENT LANE CLOSURES - WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH REMAINS IN PLACE CONTINUOUSLY FOR 24 HOURS OR MORE.

B. ADVANCE NOTICES

FOR THE INITIAL START OF WORK THAT REQUIRES "IMPACTS TO NORMAL TRAFFIC FLOW", THE CONTRACTOR SHALL NOTIFY THE RE IN WRITING, ON THE ADVANCE FORM TO-103 PROVIDED BY THE DEPARTMENT, OF THE PROPOSED DATE THE NOTICE SHALL BE SUBMITTED AT LEAST TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS, BEFORE THE PROPOSED DATE. START OF WORK THAT IMPACTS NORMAL TRAFFIC FLOW WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR SHALL CONFIRM, IN WRITING TO THE RE, THE PROPOSED DATE SEVEN (AND/OR FOURTEEN) CALENDAR DAYS BEFORE STARTING THE ESTABLISHMENT OF THE TRAFFIC CONTROL MEASURES FOR THE TRAFFIC IMPACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RE IF THE PROPOSED ESTABLISHMENT CAN NOT BE COMPLETED ON THE PROPOSED DATE

FOR A "PERMANENT LANE CLOSURE", THE CONTRACTOR SHALL NOTIFY THE RE IN WRITING, ON ADVANCE FORM TO-103, OF THE PROPOSED DATE A NEW TRAFFIC PATTERN WILL BE ESTABLISHED THE NOTICE SHALL BE SUBMITTED AT LEAST TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS, IN ADVANCE OF THE PROPOSED DATE. START OF A NEW TRAFFIC PATTERN WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR SHALL CONFIRM, IN WRITING TO THE RE, THE PROPOSED DATE OF THE NEW TRAFFIC PATTERN SEVEN (AND/OR FOURTEEN) DAYS BEFORE STARTING TRAFFIC CONTROL MEASURES FOR THE ESTABLISHMENT OF THE NEW PATTERN. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RE IF THE PROPOSED ESTABLISHMENT CAN NOT BE COMPLETED ON THE PROPOSED DATE

STARTING THE ESTABLISHMENT OF A NEW PERMANENT TRAFFIC PATTERN SHALL BEGIN NO EARLIER THAN 11:00 PM FRIDAY AND SHALL BE COMPLETED AND READY FOR OPERATIONS BY 6:00 PM THE FOLLOWING SUNDAY. THE ESTABLISHMENT SHALL BE COMPLETED IN ACCORDANCE WITH THE LANE CLOSURE HOURS SPECIFIED IN THE CONTRACT.

ADVANCE NOTICES SENT PRIOR TO THE PRE-CONSTRUCTION MEETING SHALL BE ADDRESSED TO THE CONTACT PERSON AS SPECIFIED IN SUBSECTION 101.04 OF THE SPECIAL PROVISIONS

C. PROGRESS NOTICES

ALL "IMPACTS TO NORMAL TRAFFIC FLOW" SCHEDULED FOR THE SEVEN DAY PERIOD STARTING ON THE FOLLOWING MONDAY SHALL BE SUBMITTED TO THE RE BY 9:00 AM OF EACH FRIDAY ON WEEKLY FORM TO-100 PROVIDED BY THE DEPARTMENT.

EACH DAY OF "TEMPORARY LANE CLOSURES" SHALL BE SUBMITTED TO THE RE BY 9:00 AM THE DAY IN ADVANCE OF THE START OF THOSE OPERATIONS ON DAILY FORM TO-101 PROVIDED BY THE DEPARTMENT

"TEMPORARY LANE CLOSURES" FOR WEEKENDS SHALL BE SUBMITTED TO THE RE BY 9:00 AM ON THE IMMEDIATELY PRECEDING FRIDAY ON THE DAILY FORM TO-101 PROVIDED BY THE DEPARTMENT

D. CHANGES TO THE SCHEDULED CLOSURES
REQUEST FOR A CHANGE TO THE TRAFFIC CONTROL REQUIREMENTS IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE RE AS FOLLOWS:

CHANGES TO THE SCHEDULED HOURS FOR "TEMPORARY LANE CLOSURES" SHALL BE SUBMITTED TO THE R E. AT LEAST EIGHT CALENDAR DAYS IN ADVANCE OF WHEN THE CHANGE IS PROPOSED TO START

OTHER PROPOSED CHANGES TO "TEMPORARY LANE CLOSURES" AND ALL CHANGES TO "PERMANENT LANE CLOSURES" SHALL BE SUBMITTED TO THE RE AS SPECIFIED IN THE SPECIFICATIONS.

MAINTENANCE AND PROTECTION OF TRAFFIC MPT-1

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

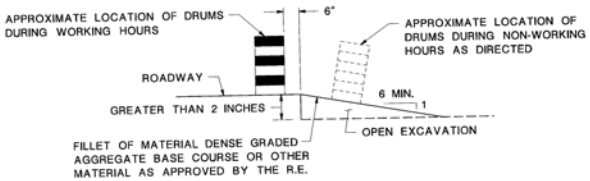
DRAWN: ARB	DATE: JULY 2012	SCALE: NO SCALE	SHEET 25 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/18/12

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



NOTE:

ESCAPE RAMPS MUST BE CONSTRUCTED AND MAINTAINED DURING NON-WORKING HOURS WHERE A VERTICAL DROP GREATER THAN 2 INCHES EXISTS ADJACENT TO TRAVELED LANE.

ESCAPE RAMP DETAIL

TEMPORARY SIGN TABLE

SIGN NO.	SIGN DESIGNATION	MESSAGE	SIZE INCH x INCH	AREA (S.F.)	IF & WHERE DIRECTED	TOTAL AREA (S.F.)
1	G20-2A	END ROAD WORK	36" x 18"	4.5	2	9.0
2	R2-1	SPEED LIMIT	24" x 30"	5.0	2	10.0
3	W1-4L(S)	SINGLE LANE SHIFT ARROW (LEFT)	36" x 36"	9.0	2	18.0
4	W1-4R(S)	SINGLE LANE SHIFT ARROW (RIGHT)	36" x 36"	9.0	2	18.0
5	W3-4	BE PREPARED TO STOP	36" x 36"	9.0	2	18.0
6	W3-5	REDUCED SPEED LIMIT AHEAD	36" x 36"	9.0	2	18.0
7	W5-1(S)	ROAD NARROWS	36" x 36"	9.0	2	18.0
8	W8-11	UNEVEN LANES	36" x 36"	9.0	2	18.0
9	W8-15	GROOVED PAVEMENT	36" x 36"	9.0	2	18.0
10	W20-1A	ROAD WORK 1500 FEET	36" x 36"	9.0	2	18.0
11	W20-1D	ROAD WORK ½ MILE	36" x 36"	9.0	6	54.0
12	W20-1F	ROAD WORK AHEAD	36" x 36"	9.0	2	18.0
13	W20-7	FLAGGER (SYMBOL)		CONSTRUCTION SIGN TOTAL		253.0

REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	RECOMMENDED SIGHT DISTANCE TO BEGINNING OF CHANNELIZING TAPERS		
	DESIRABLE		MINIMUM
	RURAL FEET	URBAN FEET	RURAL AND URBAN FEET
25	375	525	150
30	450	625	200
35	525	725	250
40	600	825	325
45	675	925	400
50	750	1025	475
55	875	1150	550
60	1000	1275	650
65	1050		725

NOTES:

1. AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND/OR DIRECTION CHANGE PRIOR TO THE BEGINNING OF CHANNELIZING TAPERS.
2. RECOMMENDED DISTANCES BETWEEN TWO SEPARATE LANE CLOSURES SHALL BE DOUBLE THE VALUES SHOWN ABOVE.
3. RURAL AND URBAN ROAD DESIGNATIONS SHALL BE AS DEFINED IN THE NJDOT STATE HIGHWAY STRAIGHT LINE DIAGRAMS.
4. DESIRABLE VALUES SHALL BE PROVIDED WHEREVER POSSIBLE. IF IT IS NOT FEASIBLE OR PRACTICAL TO PROVIDE DESIRABLE VALUES BECAUSE OF HORIZONTAL OR VERTICAL CURVATURE OR IF RELOCATION OF THE TAPER IS NOT POSSIBLE, THEN MINIMUM VALUES CAN BE APPLIED. WHEN MINIMUM VALUES ARE USED, SPECIAL ATTENTION SHOULD BE GIVEN TO THE USE OF SUITABLE TRAFFIC CONTROL DEVICES FOR PROVIDING ADVANCED WARNING OF THE CONDITIONS THAT ARE LIKELY TO BE ENCOUNTERED.
5. TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.

RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS						RECOMMENDED SPACING ALONG TANGENTS
REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L – FOR LANE WIDTHS			MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET
		10'	11'	12'		
25	10.5:1	105	115	125	25	50
30	15:1	150	165	180	30	60
35	20.5:1	205	225	245	35	70
40	27:1	270	300	325	40	80
45	45:1	450	495	540	45	90
50	50:1	500	550	600	50	100
55	55:1	550	605	660	55	110
60	60:1	600	660	720	60	120
65	65:1	650	715	780	65	130

NOTE:

THE MAXIMUM DEVICE SPACING ALONG CURVES SHALL BE AS DEFINED FOR TAPERS (B) IN THE ABOVE TABLE.

MAINTENANCE AND PROTECTION OF TRAFFIC MPT-2

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. — 55 HADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

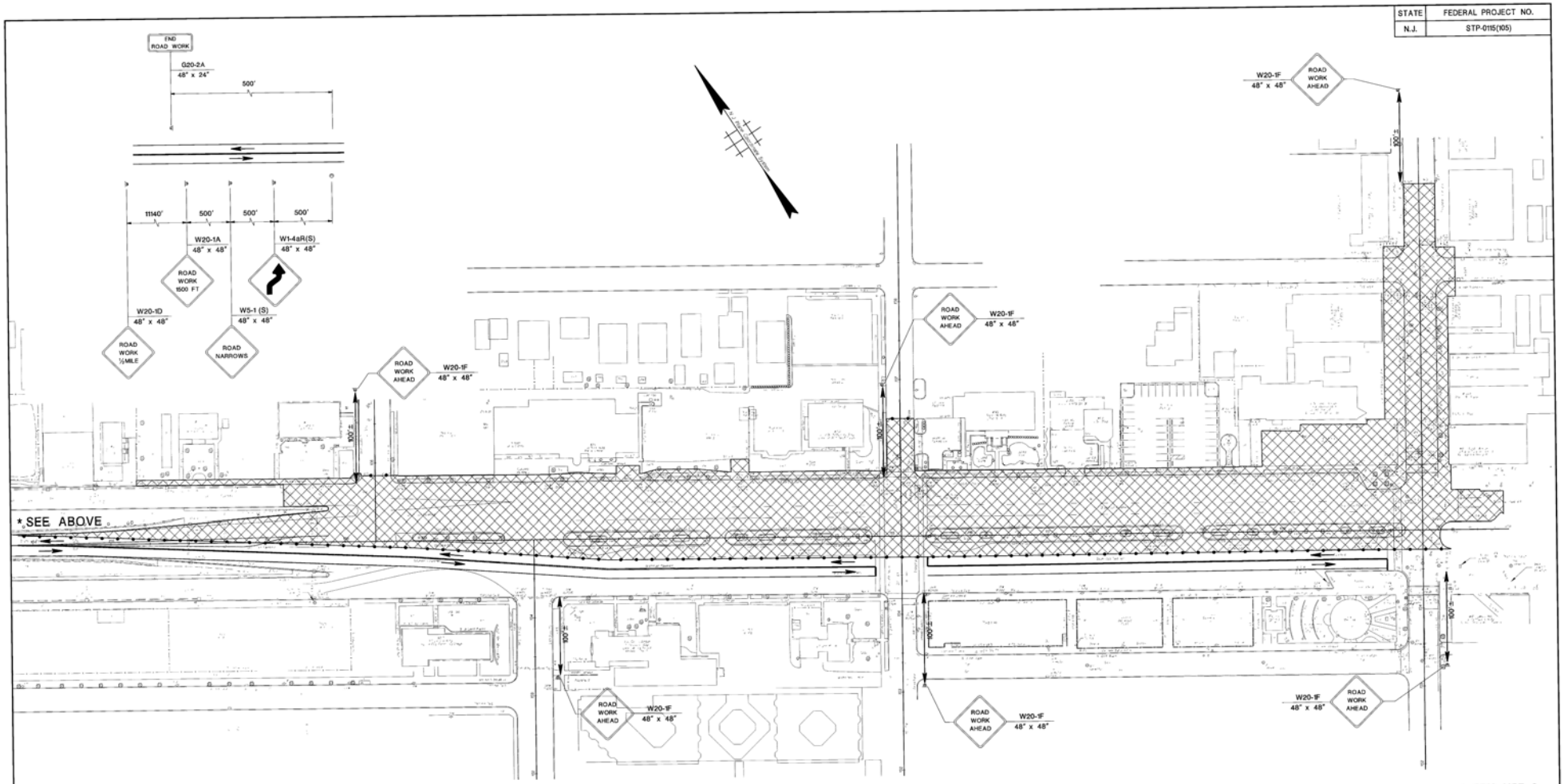
REVISION	BY	CK'D	DATE

DRAWN: ARB | DATE: JULY 2012 | SCALE: NO SCALE | SHEET 26 OF 68

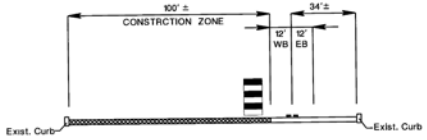
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. COCHE, P.E., N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/10/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



MAINTENANCE AND PROTECTION OF TRAFFIC MPT-3



STAGE 1 CONSTRUCTION:

1. SHIFT TRAFFIC AS SHOWN.
2. INTERSECTIONS SHALL BE STOP CONTROLLED DURING THE CONSTRUCTION OF THIS STAGE.
3. DRIVEWAY OPENINGS SHALL BE MAINTAINED DURING THE CONSTRUCTION OF THIS STAGE.
4. SIDE STREETS SHALL BE OPENED DURING CONSTUCTION UNLESS OTHERWISE NOTED BY THE RESIDENT ENGINEER.

60' 30' 0 60' 120'

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

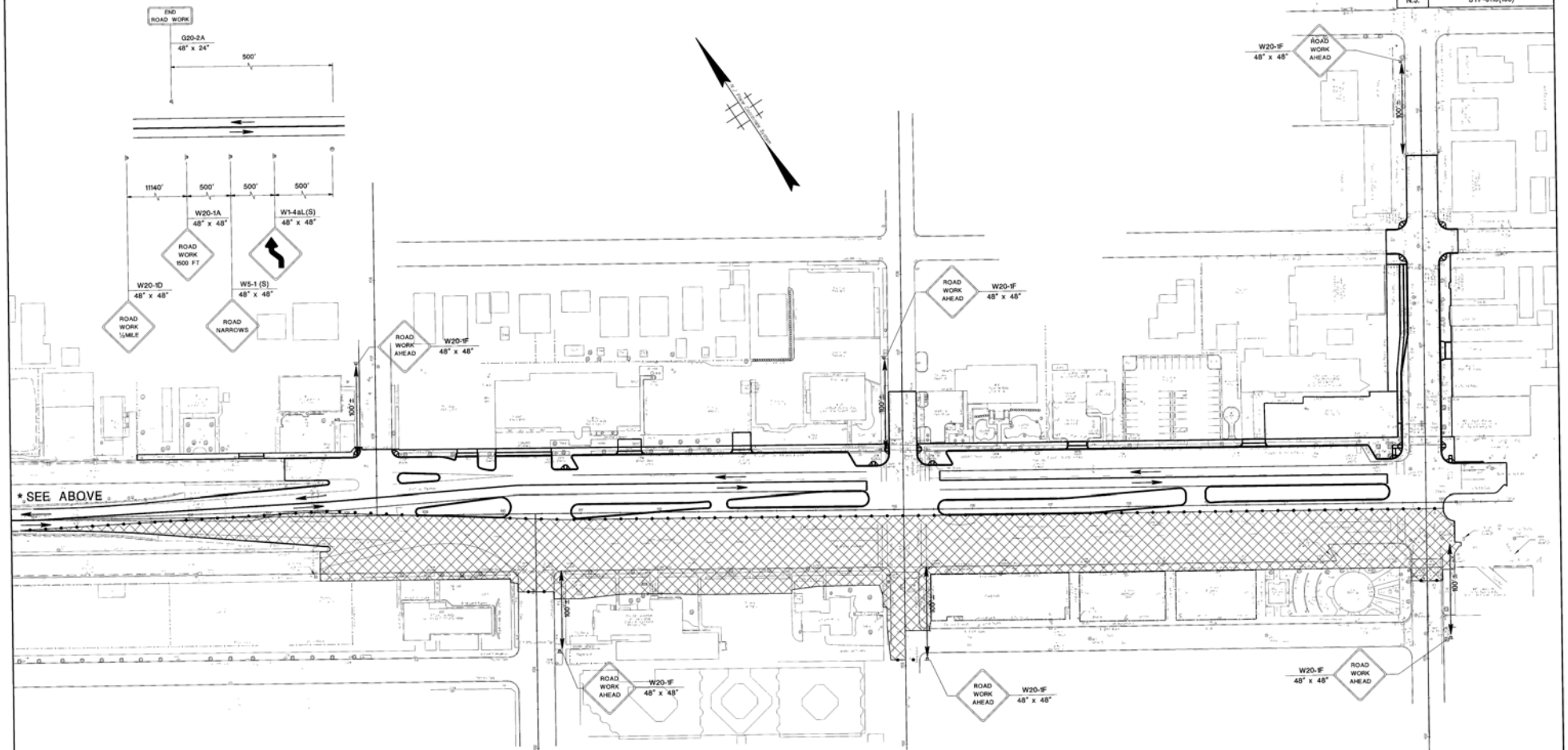
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

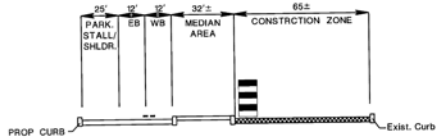
DRAWN: ARB | DATE: JULY 2012 | SCALE: AS SHOWN | SHEET 27 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — 7/10/12 DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)





STAGE 2 CONSTRUCTION:

1. SHIFT TRAFFIC AS SHOWN.
2. INTERSECTIONS SHALL BE STOP CONTROLLED DURING THE CONSTRUCTION OF THIS STAGE.
3. DRIVEWAY OPENINGS SHALL BE MAINTAINED DURING THE CONSTRUCTION OF THIS STAGE.
4. SIDE STREETS SHALL BE OPENED DURING CONSTUCTION UNLESS OTHERWISE NOTED BY THE RESIDENT ENGINEER.

STAGE 3 CONSTRUCTION:

1. FINAL PAVING OPERATIONS AND STRIPING TO BE COMPLETED

60' 30' 0 60' 120'

REVISION	BY	CK'D	DATE

MAINTENANCE AND PROTECTION OF TRAFFIC MPT-4

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: AS SHOWN | SHEET 28 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — 7/18/12 DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

ITEM NUMBER	TO BE CONSTRUCTED	CONTRACT QUANTITY
701027P	2" RIGID NON-METALLIC CONDUIT	5 LF
701030P	3" RIGID NON-METALLIC CONDUIT	365 LF
701099M	17" x 30" JUNCTION BOX	5 UNITS
701123M	FOUNDATIONS, TYPE SFT	1 UNIT
701132M	FOUNDATIONS, TYPE P-MC	1 UNIT
701135M	FOUNDATIONS, TYPE SPF	1 UNIT
701138M	FOUNDATIONS, TYPE STF	3 UNITS
701171M	METER CABINET, TYPE TL	1 UNIT
701192P	GROUND WIRE, No. 8 AWG	495 LF
701213P	SERVICE WIRE, No. 6 AWG	130 LF
702009M	CONTROLLER, 8 PHASE	1 UNIT
702012M	TRAFFIC SIGNAL STANDARD, ALUMINUM	1 UNIT
702015M	TRAFFIC SIGNAL STANDARD, STEEL	3 UNITS
702018M	PEDESTRIAN SIGNAL STANDARD	1 UNIT
702021M	TRAFFIC SIGNAL MAST ARM, ALUMINUM	1 UNIT
702024M	TRAFFIC SIGNAL MAST ARM, STEEL	3 UNITS
702027P	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	230 LF
702030P	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	670 LF
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	825 LF
702036M	TRAFFIC SIGNAL HEAD	9 UNITS
702039M	PEDESTRIAN SIGNAL HEAD	4 UNITS
702042M	PUSHBUTTON	2 UNITS
702045M	IMAGE DETECTOR	2 UNITS
702060M	CONTROLLER TURN-ON	1 UNIT
702001M	PRE-EMPTION DETECTOR	1 UNIT

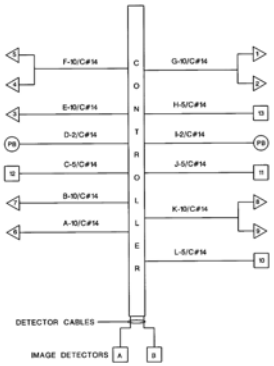
NOTE:
ALL SIGNAL POLES, MAST ARMS, PEDESTALS, CABINETS, AND ASSOCIATED HARDWARE SHALL BE BLACK IN COLOR.
PUSH BUTTONS SHALL BE ACCESSIBLE PUSH BUTTON SYSTEM (APS).

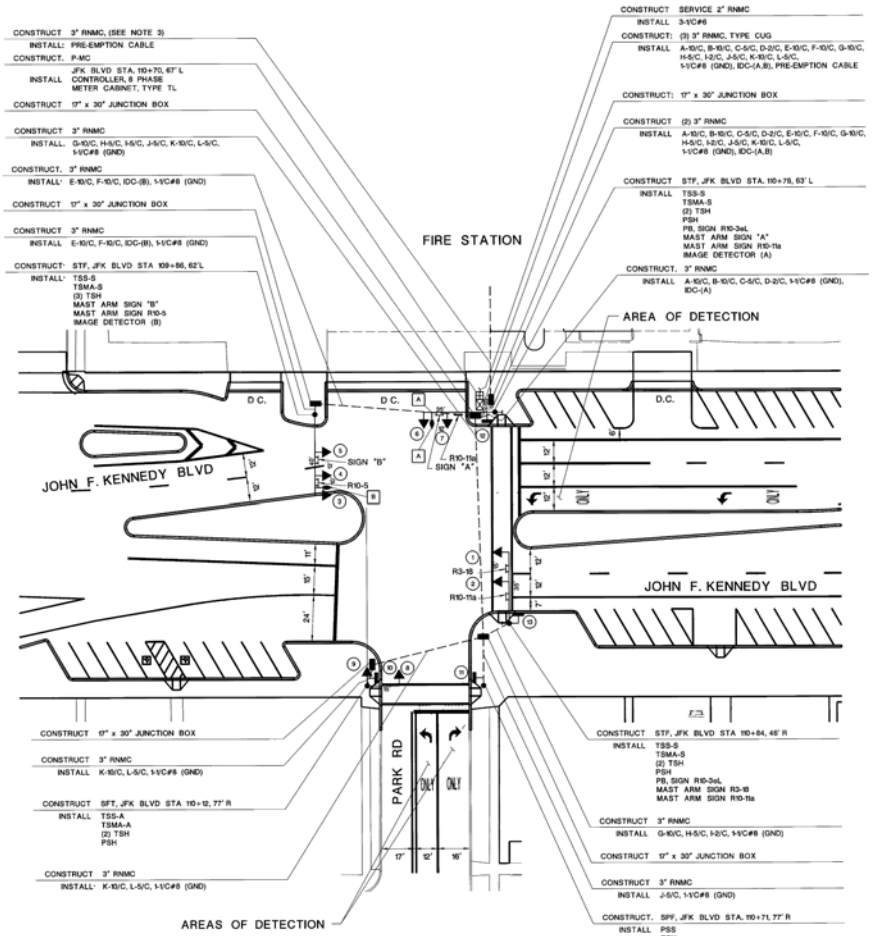
SIGN LEGEND

MAST ARM SIGN "A" DOUBLE SIDED 96" x 18"
MAST ARM SIGN "B" DOUBLE SIDED 48" x 18"
R(NJ)3-88 30" x 30"

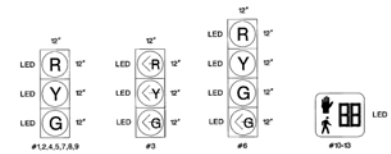
R3-18	NO LEFT AND U-TURN	36" x 36"
R10-11a	NO TURN ON RED	36" x 48"
R10-3eL	COUNTDOWN PEDESTRIAN SIGN LEFT ARROW	9" x 15"
R10-5	LEFT ON GREEN ARROW ONLY	30" x 36"

BLOCK WIRING DIAGRAM





SIGNAL LEGEND



NOTES:
1. SIGNAL HEAD #9 SHALL BE MOUNTED AT A HEIGHT OF 12'.
2. SIGNAL HEADS #8 AND #9 SHALL BE ACTIVATED UPON PRE-EMPTION FROM THE FIREHOUSE OTHERWISE THEY SHALL REMAIN RED AT ALL TIMES.
3. CONDUIT WILL BE RUN FROM THE NEW CONTROLLER LOCATION INTO THE FIREHOUSE. A PRE-EMPTION SWITCH SHALL BE INSTALLED IN THE DISPATCHERS ROOM FOR ACTIVATION OF THE TRAFFIC SIGNAL.

ELECTRICAL PLANS E-1

30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY
OFFICE OF THE COUNTY ENGINEER

JOB:
IMPROVEMENTS TO JFK BOULEVARD (CR 625)/ (VETERANS BOULEVARD)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: REM | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 29 OF 65

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: JAY T. ETZEL, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04649200 — 7/18/12 DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

ITEM NUMBER	TO BE CONSTRUCTED	CONTRACT QUANTITY
701027P	2" RIGID NON-METALLIC CONDUIT	15 LF
701030P	3" RIGID NON-METALLIC CONDUIT	370 LF
701099M	17" x 30" JUNCTION BOX	5 UNITS
701132M	FOUNDATIONS, TYPE P-MC	1 UNIT
701135M	FOUNDATIONS, TYPE SPF	4 UNITS
701138M	FOUNDATIONS, TYPE STF	4 UNITS
701171M	METER CABINET, TYPE TL	1 UNIT
701192P	GROUND WIRE, No. 8 AWG	540 LF
701213P	SERVICE WIRE, No. 6 AWG	165 LF
702009M	CONTROLLER, 8 PHASE	1 UNIT
702015M	TRAFFIC SIGNAL STANDARD, STEEL	4 UNITS
702018M	PEDESTRIAN SIGNAL STANDARD	4 UNITS
702024M	TRAFFIC SIGNAL MAST ARM, STEEL	4 UNITS
702027P	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	1150 LF
702030P	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	1290 LF
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	1470 LF
702036M	TRAFFIC SIGNAL HEAD	12 UNITS
702039M	PEDESTRIAN SIGNAL HEAD	8 UNITS
702042M	PUSH BUTTON	4 UNITS
702045M	IMAGE DETECTOR	4 UNITS
702060M	CONTROLLER TURN-ON	1 UNIT

NOTE:
ALL SIGNAL POLES, MAST ARMS, PEDESTALS, CABINETS, AND ASSOCIATED HARDWARE SHALL BE BLACK IN COLOR.
PUSH BUTTONS SHALL BE ACCESSIBLE PUSH BUTTON SYSTEM (APS)

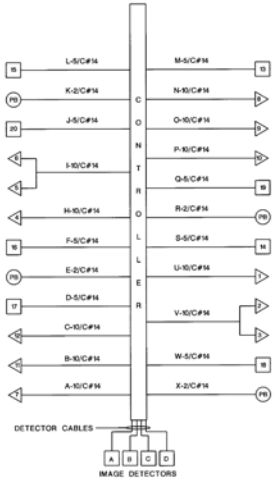
SIGN LEGEND

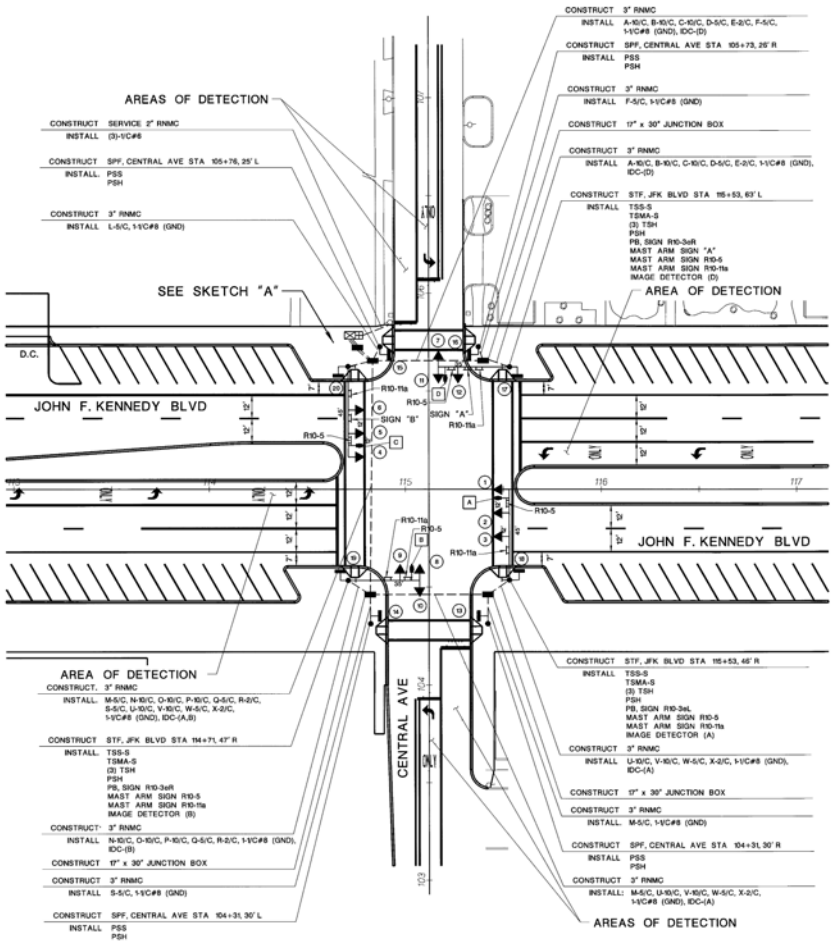
MAST ARM SIGN "A" DOUBLE SIDED 96" x 18"

MAST ARM SIGN "B" DOUBLE SIDED 66" x 18"

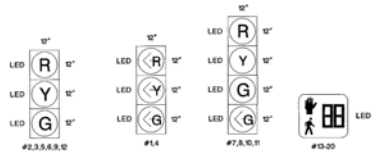
R10-5	LEFT ON GREEN ARROW ONLY	30" x 36"
R10-11a	NO TURN ON RED	36" x 48"
R10-3eL	COUNTDOWN PEDESTRIAN SIGN LEFT ARROW	9" x 15"
R10-3eR	COUNTDOWN PEDESTRIAN SIGN RIGHT ARROW	9" x 15"

BLOCK WIRING DIAGRAM





SIGNAL LEGEND



30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

ELECTRICAL PLANS E-2

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD (CR 625)/ (VETERANS BOULEVARD)
City of Sea Isle City, Cape May County, New Jersey

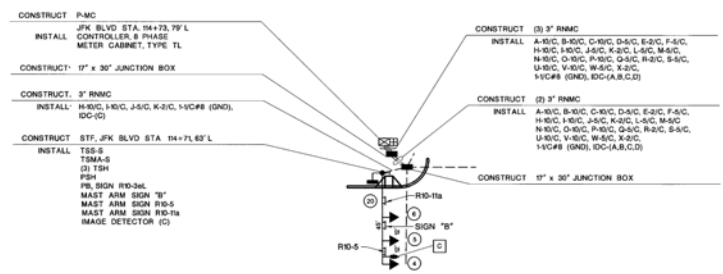
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: REM	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 30 OF 65

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: R. T. ETZEL, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04649200 — DATE 7/18/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



SKETCH "A"

30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

ELECTRICAL PLANS E-3

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: REM	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 31 OF 65

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: [signature] DAY T. ETZEL, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04649200 — 7/18/12 DATE

REFERENCE

pen table = date = fdn = ID =

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

ITEM NUMBER	TO BE CONSTRUCTED	CONTRACT QUANTITY
701027P	2" RIGID NON-METALLIC CONDUIT	55 LF
701030P	3" RIGID NON-METALLIC CONDUIT	500 LF
701099M	17" x 30" JUNCTION BOX	5 UNITS
701123M	FOUNDATIONS, TYPE SFT	1 UNITS
701132M	FOUNDATIONS, TYPE P-MC	1 UNIT
701135M	FOUNDATIONS, TYPE SPF	4 UNITS
701138M	FOUNDATIONS, TYPE STF	2 UNITS
701144M	FOUNDATIONS, TYPE SFK	1 UNIT
701171M	METER CABINET, TYPE TL	1 UNIT
701192P	GROUND WIRE, No. 8 AWG	490 LF
701213P	SERVICE WIRE, No. 6 AWG	280 LF
702009M	CONTROLLER, 8 PHASE	1 UNIT
702012M	TRAFFIC SIGNAL STANDARD, ALUMINUM	2 UNITS
702015M	TRAFFIC SIGNAL STANDARD, STEEL	2 UNITS
702018M	PEDESTRIAN SIGNAL STANDARD	4 UNITS
702021M	TRAFFIC SIGNAL MAST ARM, ALUMINUM	2 UNITS
702024M	TRAFFIC SIGNAL MAST ARM, STEEL	2 UNITS
702027P	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	700 LF
702030P	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	1280 LF
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	1625 LF
702036M	TRAFFIC SIGNAL HEAD	12 UNITS
702039M	PEDESTRIAN SIGNAL HEAD	8 UNITS
702042M	PUSH BUTTON	4 UNITS
702045M	IMAGE DETECTOR	4 UNITS
702060M	CONTROLLER TURN-ON	1 UNIT

NOTE:
ALL SIGNAL POLES, MAST ARMS, PEDESTALS, CABINETS, AND ASSOCIATED HARDWARE SHALL BE BLACK IN COLOR
PUSH BUTTONS SHALL BE ACCESSIBLE PUSH BUTTON SYSTEM (APS).

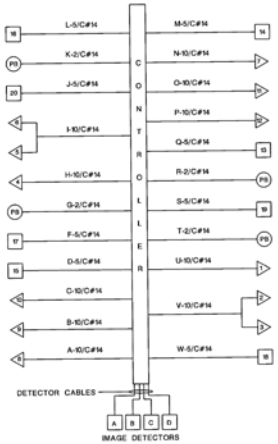
SIGN LEGEND

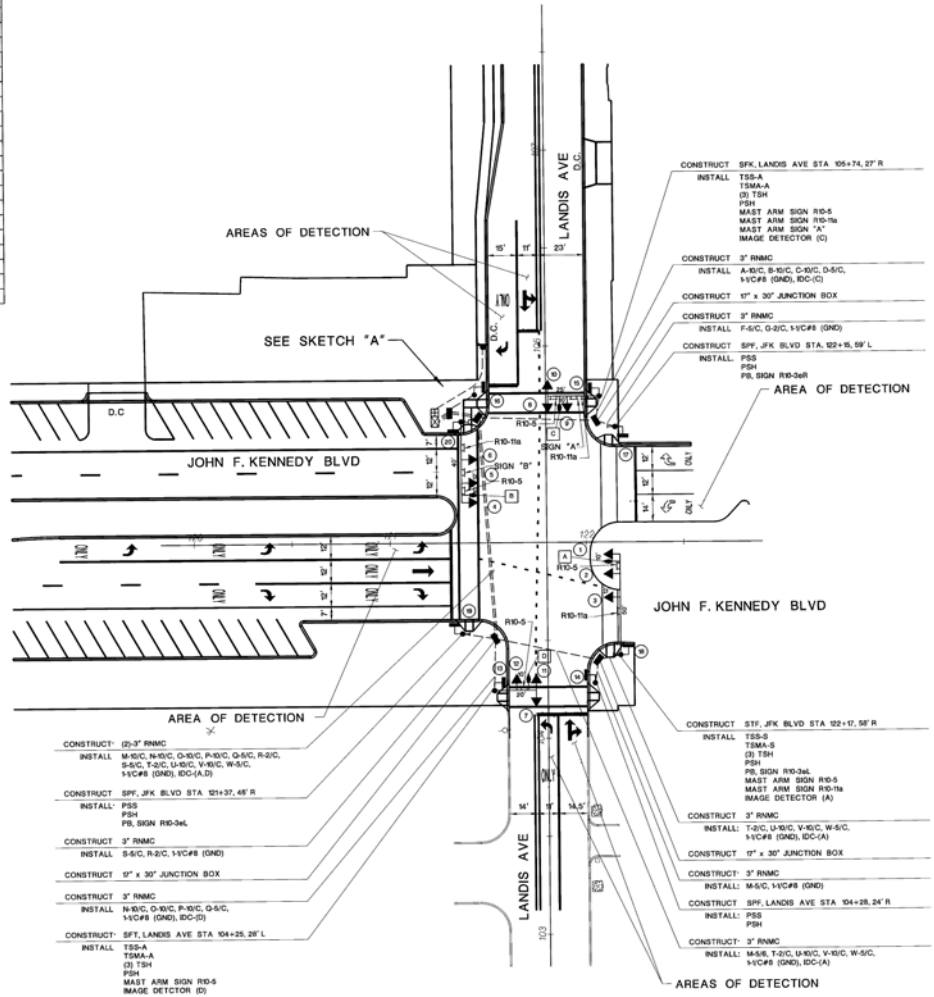
MAST ARM SIGN "A" DOUBLE SIDED 96" x 18"

MAST ARM SIGN "B" DOUBLE SIDED 60" x 18"

R10-5	LEFT ON GREEN ARROW ONLY	30" x 46"
R10-11a	NO TURN ON RED	36" x 48"
R10-3eL	COUNTDOWN PEDESTRIAN SIGN LEFT ARROW	9" x 15"
R10-3eR	COUNTDOWN PEDESTRIAN SIGN RIGHT ARROW	9" x 15"

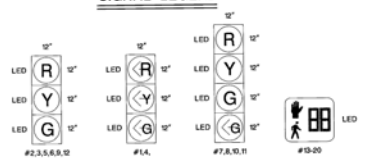
BLOCK WIRING DIAGRAM





30' 20' 10' 0 30' 60'

SIGNAL LEGEND



ELECTRICAL PLANS E-4

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:
IMPROVEMENTS TO JFK BOULEVARD (CR 625)/ (VETERANS BOULEVARD)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: REM	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 32 OF 65

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: JAY T. ETZEL, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04649200 — DATE 7/19/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

CONSTRUCT SERVICE, 2" RNMC
INSTALL 3-1/C#6

CONSTRUCT 3" RNMC
INSTALL L-5/C, 1-1/C#8 (GND)

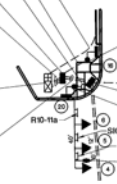
CONSTRUCT 3" RNMC
INSTALL H-10/C, I-10/C, J-5/C, K-2/C, 1-1/C#8 (GND), IDC-(B)

CONSTRUCT. 17" x 30" JUNCTION BOX

CONSTRUCT (3)-3" RNMC
INSTALL A-10/C, B-10/C, C-10/C, D-5/C, F-5/C, G-2/C, H-10/C, I-10/C, J-5/C, K-2/C, L-5/C, M,5/C, N-10/C, O-10/C, P-10/C, Q-5/C, S-5/C, R-2/C, T-5/C, U-10/C, V-10/C, W-5/C, 1-1/C#8 (GND), IDC-(A,B,C,D)

CONSTRUCT P-MC, JFK BLVD STA 121+23, 63' L
INSTALL METER CABINET, TYPE TL CONTROLLER, 8 PHASE

CONSTRUCT (2)-3" RNMC
INSTALL A-10/C, B-10/C, C-10/C, D-5/C, F-5/C, G-2/C, H-10/C, I-10/C, J-5/C, K-2/C, M-5/C, N-10/C, O-10/C, P-10/C, Q-5/C, R-2/C, S-5/C, T-2/C, U-10/C, V-10/C, W-5/C, 1-1/C#8 (GND), IDC-(A,B,C,D)



CONSTRUCT SPF, LANDIS AVE STA 105+75, LT 36' L
INSTALL PSS
PSH

CONSTRUCT 3" RNMC
INSTALL A-10/C, B-10/C, C-10/C, D-5/C, F-5/C, G-2/C, 1-1/C#8 (GND), IDC-(C)

CONSTRUCT. 17" x 30" JUNCTION BOX

CONSTRUCT STF, JFK BLVD STA 121+37, LT 62' L
INSTALL TSS-S
TSMA-S
(3) TSH
PSH
PB, SIGN R10-3eL
MAST ARM SIGN R10-5
MAST ARM SIGN R10-11a
MAST ARM SIGN B
IMAGE DETECTOR (B)

30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

ELECTRICAL PLANS E-5

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. — 55 HADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

DRAWN: REM | DATE: FEBRUARY 2012 | SCALE: AS SHOWN | SHEET 33 OF 65

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: T. ETZEL, P.E., N.J. PROFESSIONAL ENGINEER No. 24GE04649200 — 7/18/12 DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

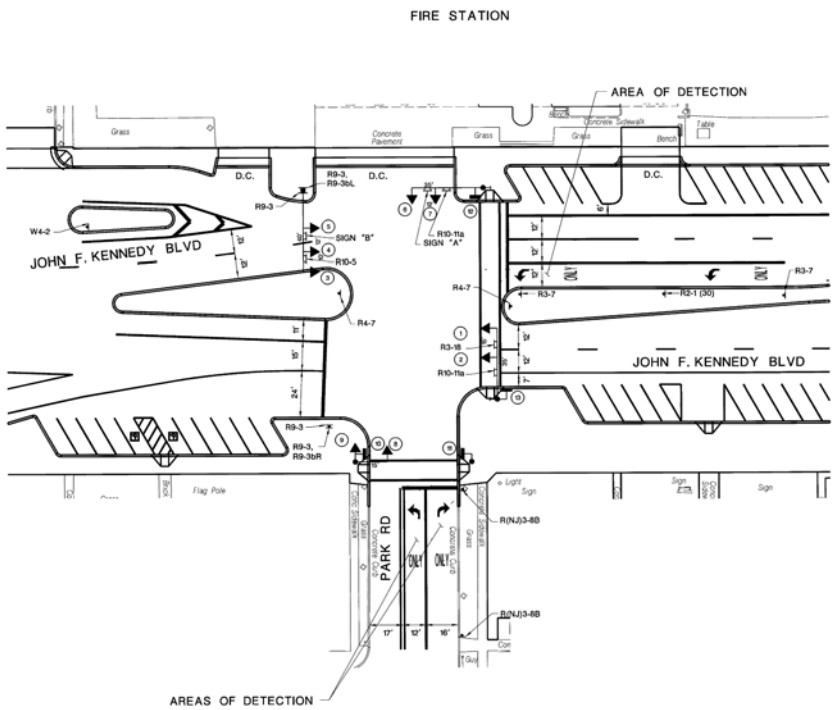
SIGN LEGEND

John F. Kennedy Blvd 625 — MAST ARM SIGN "A" DOUBLE SIDED 96" x 18"

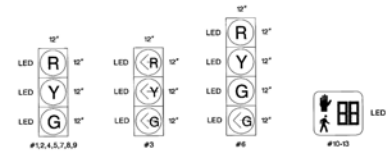
Park Rd — MAST ARM SIGN "B" DOUBLE SIDED 48" x 18"

ONLY ONLY — R(NJ)3-8B 30" x 30"

R3-7	LEFT LANE MUST TURN LEFT	36" x 36"
R3-18	NO LEFT AND U-TURN	36" x 36"
R4-7	KEEP RIGHT (SYMBOL)	24" x 30"
R9-3	NO PEDESTRIAN CROSSING	18" x 18"
R9-3bL	USE CROSSWALK LEFT ARROW	18" x 12"
R9-3bR	USE CROSSWALK RIGHT ARROW	18" x 12"
R10-3eL	COUNTDOWN PEDESTRIAN SIGN LEFT ARROW	9" x 15"
R10-3eR	COUNTDOWN PEDESTRIAN SIGN RIGHT ARROW	9" x 15"
R10-5	LEFT ON GREEN ARROW ONLY	30" x 36"



SIGNAL LEGEND



NOTES:

1. SIGNAL HEAD #9 SHALL BE MOUNTED AT A HEIGHT OF 12'.
2. SIGNAL HEADS #8 AND #9 SHALL BE ACTIVATED UPON PRE-EMPTION FROM THE FIREHOUSE OTHERWISE THEY SHALL REMAIN RED AT ALL TIMES
3. CONDUIT WILL BE RUN FROM THE NEW CONTROLLER LOCATION INTO THE FIREHOUSE. A PRE-EMPTION SWITCH SHALL BE INSTALLED IN THE DISPATCHERS ROOM FOR ACTIVATION OF THE TRAFFIC SIGNAL.

TRAFFIC SIGNAL PLANS TSP-1

30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD (CR 625)/ (VETERANS BOULEVARD)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. — 55 HADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

DRAWN: REM | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 34 OF 65

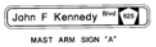
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: RAY T. ETZEL, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04649200 — DATE 7/13/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

SIGN LEGEND

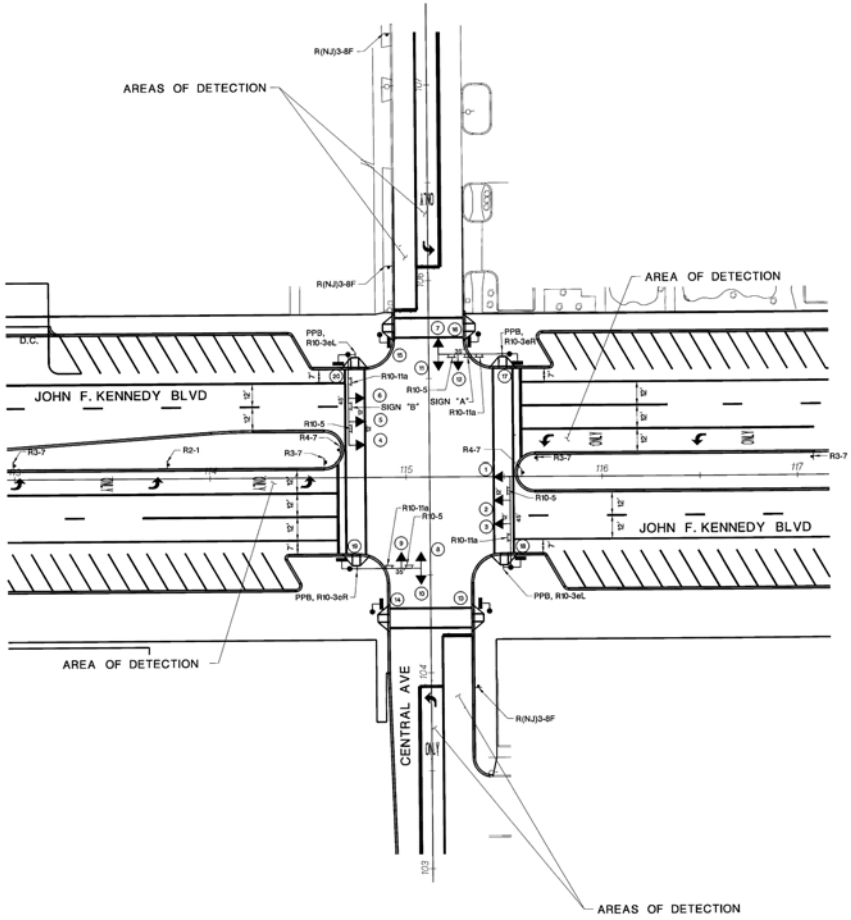
R(NJ)3-8F
30" x 30"



MAST ARM SIGN "A"
DOUBLE SIDED
96" x 18"

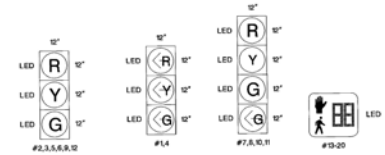
MAST ARM SIGN "B"
DOUBLE SIDED
66" x 18"

R3-7	LEFT LANE MUST TURN LEFT	36" x 36"
R4-7	KEEP RIGHT (SYMBOL)	24" x 30"
R10-3eL	COUNTDOWN PEDESTRIAN SIGN LEFT ARROW	9" x 15"
R10-3eR	COUNTDOWN PEDESTRIAN SIGN RIGHT ARROW	9" x 15"
R10-5	LEFT ON GREEN ARROW ONLY	30" x 46"
R10-11a	NO TURN ON RED	36" x 48"



30' 20' 10' 0 30' 60'

SIGNAL LEGEND



TRAFFIC SIGNAL PLANS TSP-2

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD (CR 625)/ (VETERANS BOULEVARD)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: REM	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 35 OF 65

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: [signature] JOHN T. ETZEL, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04649200 — 7/18/12 DATE

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

SIGN LEGEND

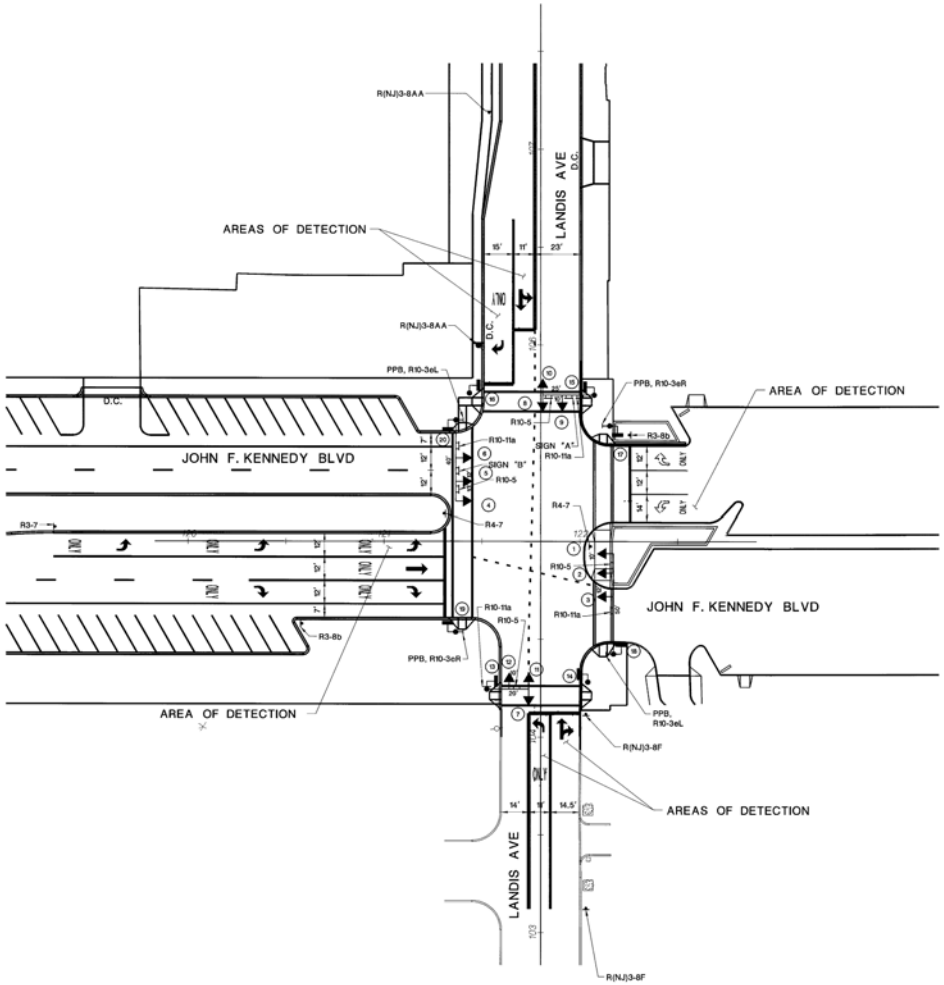
MAST ARM SIGN "A"
DOUBLE SIDED
96" x 18"

MAST ARM SIGN "B"
DOUBLE SIDED
60" x 18"

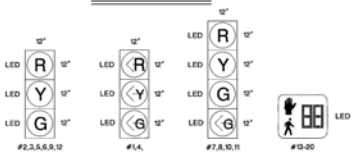
R(NJ)3-8F
30" x 30"

R(NJ)3-8AA
30" x 30"

R3-7	LEFT LANE MUST TURN LEFT	36" x 36"
R3-8b	LANE USE CONTROL SIGN	36" x 36"
R4-7	KEEP RIGHT (SYMBOL)	24" x 30"
R10-3eL	COUNTDOWN PEDESTRIAN SIGN LEFT ARROW	9" x 15"
R10-3eR	COUNTDOWN PEDESTRIAN SIGN RIGHT ARROW	9" x 15"
R10-5	LEFT ON GREEN ARROW ONLY	30" x 46"
R10-11a	NO TURN ON RED	36" x 48"



SIGNAL LEGEND



30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

TRAFFIC SIGNAL PLANS TSP-3

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:
IMPROVEMENTS TO JFK BOULEVARD (CR 625)/ (VETERANS BOULEVARD)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: REM | DATE: JULY 2012 | SCALE: AS SHOWN | SHEET 36 OF 65

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

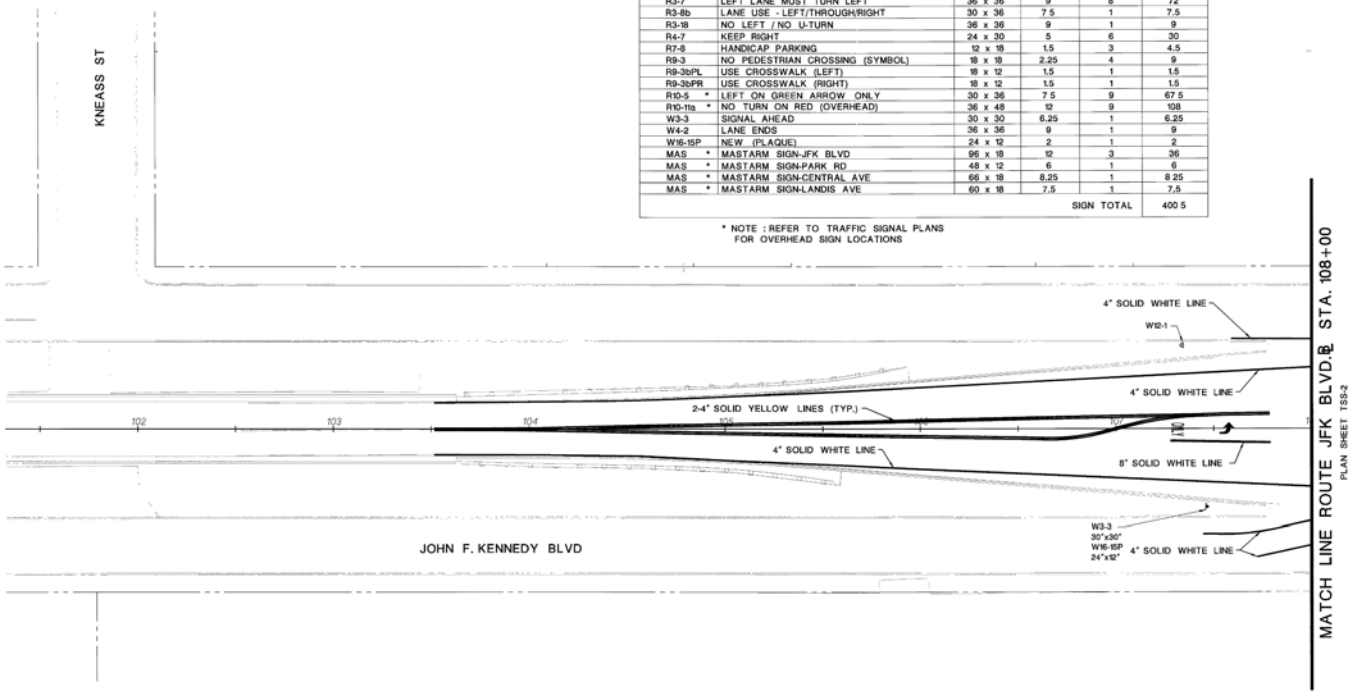
APPROVED: JAY T. ETZEL, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04649200 — 7/18/12 DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(106)

PERMANENT SIGN TABLE

SIGN DESIGNATION	MESSAGE	SIZE IN x IN	AREA (S.F.)	REQUIRED QUANTITY	TOTAL AREA (S.F.)
R2-1	SPEED LIMIT - 35 MPH	30 x 36	7.5	2	15
R3-7	LEFT LANE MUST TURN LEFT	36 x 36	9	8	72
R3-8b	LANE USE - LEFT/THROUGH/RIGHT	30 x 36	7.5	1	7.5
R3-18	NO LEFT / NO U-TURN	36 x 36	9	1	9
R4-7	KEEP RIGHT	24 x 30	5	6	30
R7-8	HANDICAP PARKING	12 x 18	1.5	3	4.5
R9-3	NO PEDESTRIAN CROSSING (SYMBOL)	18 x 18	2.25	4	9
R9-3bPL	USE CROSSWALK (LEFT)	18 x 12	1.5	1	1.5
R9-3bPR	USE CROSSWALK (RIGHT)	18 x 12	1.5	1	1.5
R10-5 *	LEFT ON GREEN ARROW ONLY	30 x 36	7.5	9	67.5
R10-11a *	NO TURN ON RED (OVERHEAD)	36 x 48	12	9	108
W3-3	SIGNAL AHEAD	30 x 30	6.25	1	6.25
W4-2	LANE ENDS	36 x 36	9	1	9
W16-15P	NEW (PLAQUE)	24 x 12	2	1	2
MAS *	MASTARM SIGN-JFK BLVD	96 x 18	12	3	36
MAS *	MASTARM SIGN-PARK RD	48 x 12	6	1	6
MAS *	MASTARM SIGN-CENTRAL AVE	66 x 18	8.25	1	8.25
MAS *	MASTARM SIGN-LANDIS AVE	60 x 18	7.5	1	7.5
				SIGN TOTAL	400.5

* NOTE : REFER TO TRAFFIC SIGNAL PLANS FOR OVERHEAD SIGN LOCATIONS



LEGEND:

- ▷ - EXISTING POST MOUNTED SIGN
- ▶ - PROPOSED POST MOUNTED SIGN
- (TBRL) - EXISTING SIGN TO BE RELOCATED
- (TBRM) - EXISTING SIGN TO BE REMOVED

30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

TRAFFIC SIGNING AND STRIPING PLANS TSS-1

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

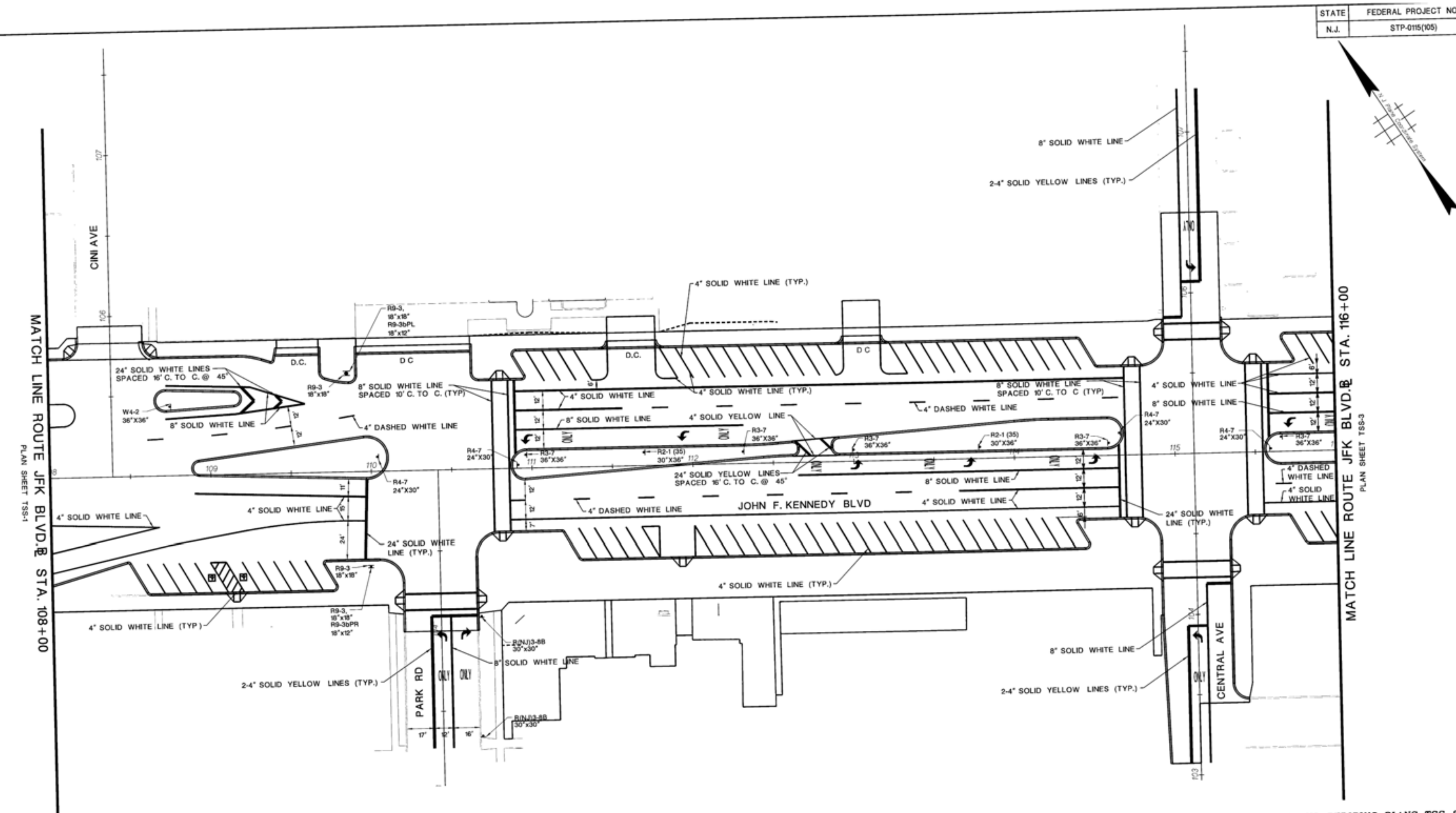
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 37 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



PARKING STALL DETAIL

LEGEND:

- EXISTING POST MOUNTED SIGN
- PROPOSED POST MOUNTED SIGN
- (TBRL) - EXISTING SIGN TO BE RELOCATED
- (TBRM) - EXISTING SIGN TO BE REMOVED

30' 20' 10' 0 30' 60'

TRAFFIC SIGNING AND STRIPING PLANS TSS-2

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: ***IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)***
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

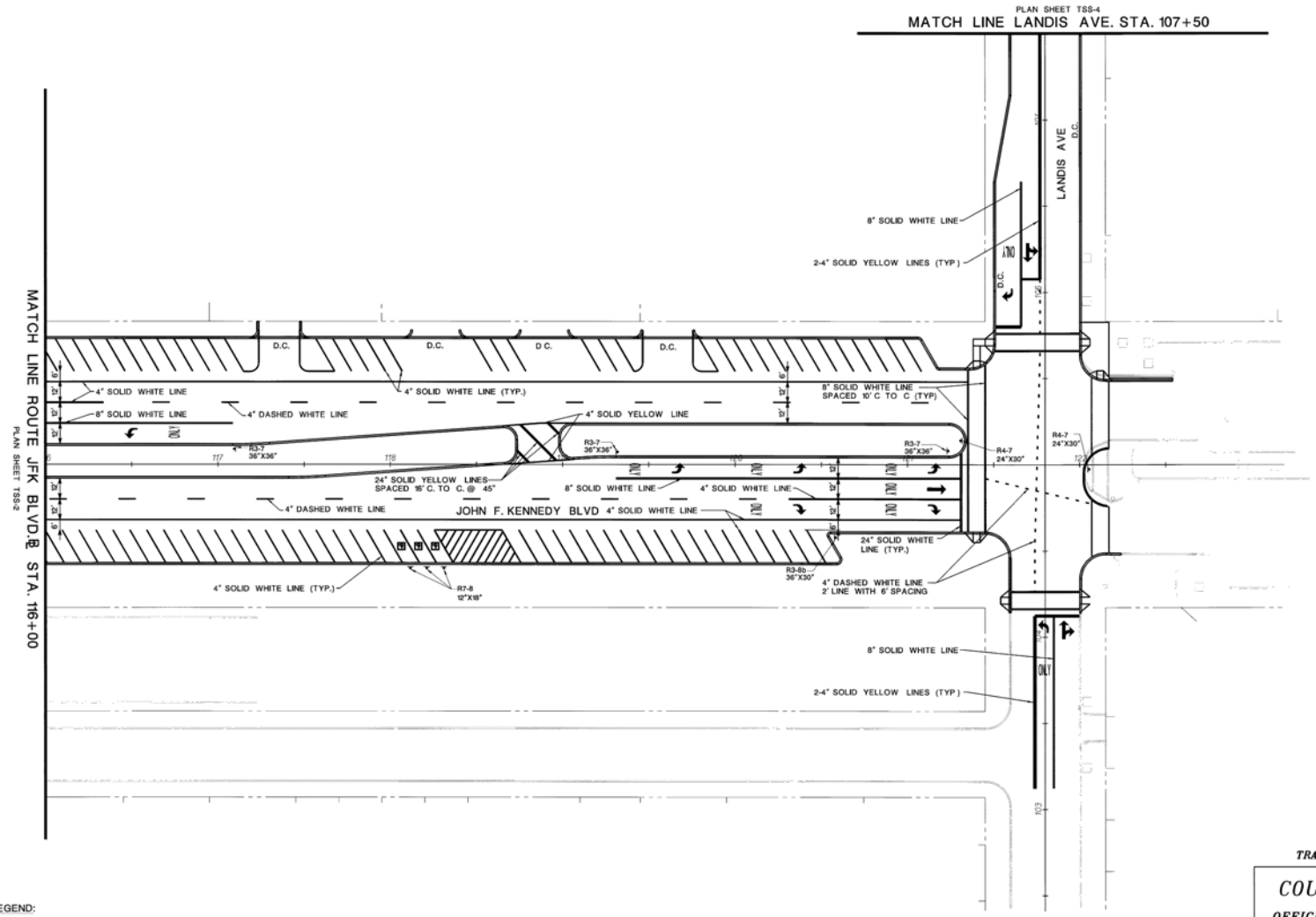
DRAWN: ARB	DATE: JULY 2012	SCALE: 1" = 30'	SHEET 38 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — 7/12/12 DATE

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



LEGEND:

- ▷ - EXISTING POST MOUNTED SIGN
- ▶ - PROPOSED POST MOUNTED SIGN
- (TBRL) - EXISTING SIGN TO BE RELOCATED
- (TBRM) - EXISTING SIGN TO BE REMOVED

REVISION	BY	CK'D	DATE

TRAFFIC SIGNING AND STRIPING PLANS TSS-3

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

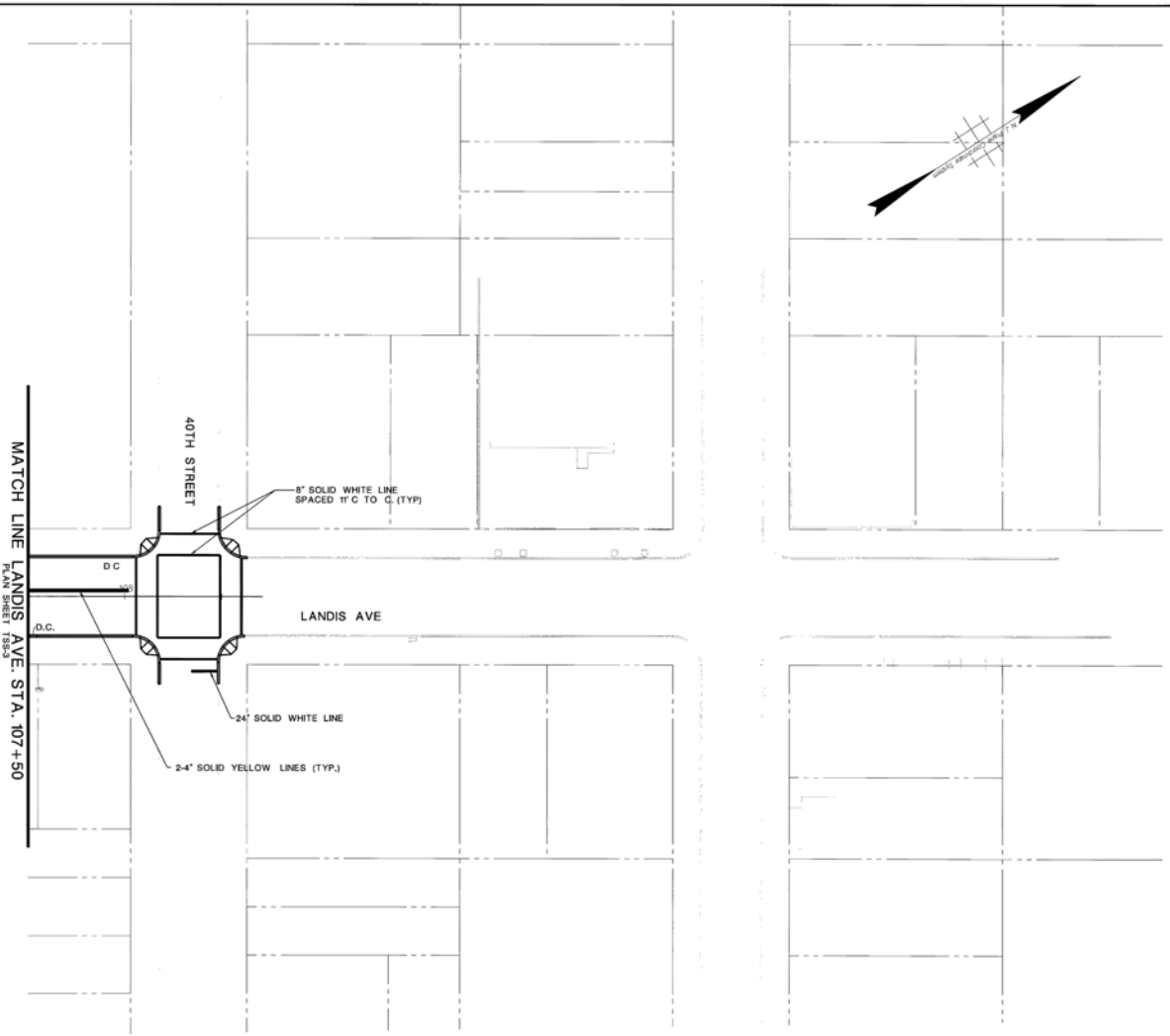
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB | DATE: JULY 2012 | SCALE: 1" = 30' | SHEET 39 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/16/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



LEGEND:

- ▷ - EXISTING POST MOUNTED SIGN
- ▶ - PROPOSED POST MOUNTED SIGN
- (TBRL) - EXISTING SIGN TO BE RELOCATED
- (TBRM) - EXISTING SIGN TO BE REMOVED

30' 20' 10' 0 30' 60'

REVISION	BY	CK'D	DATE

TRAFFIC SIGNING AND STRIPING PLANS TSS-4

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/
VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

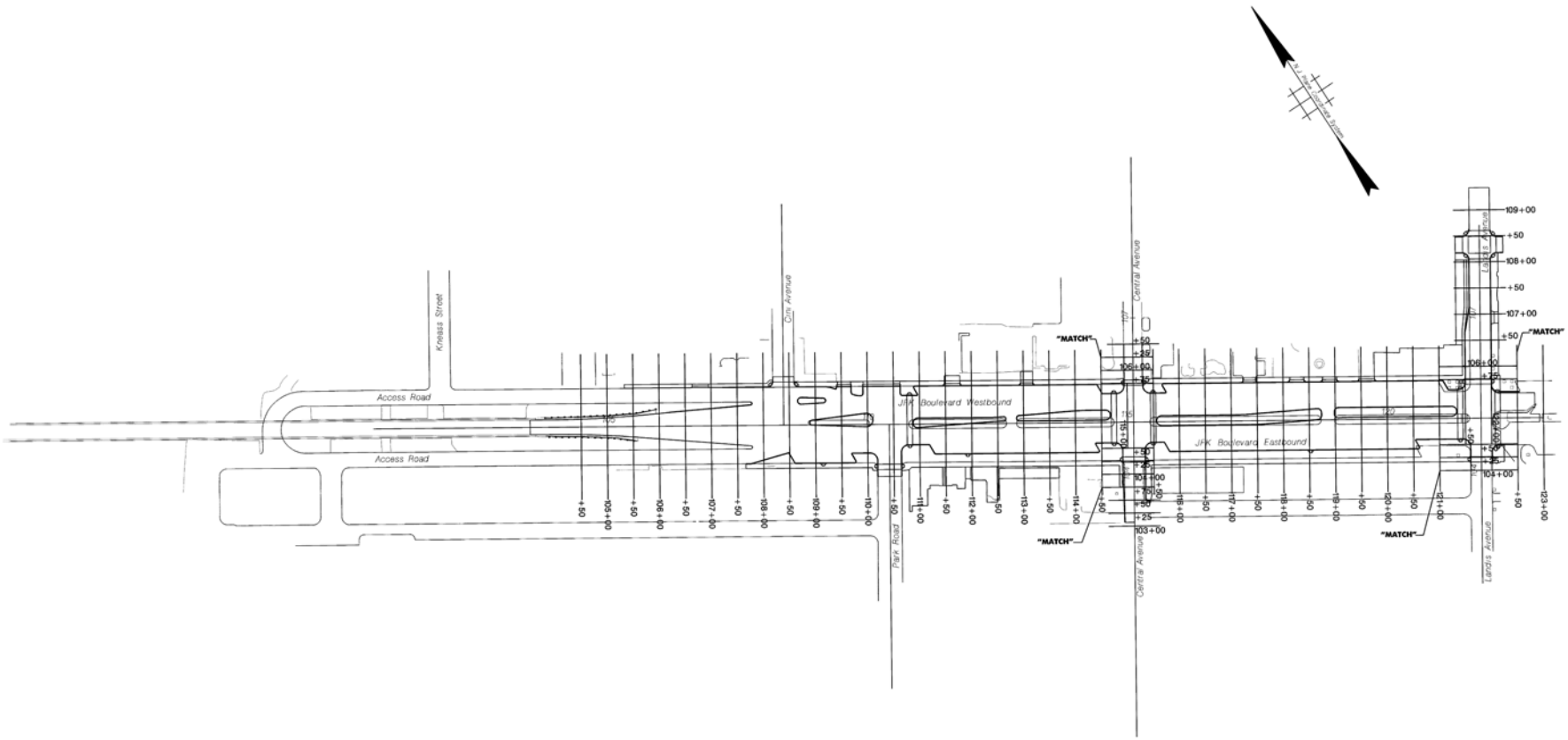
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

DRAWN: ARB	DATE: JULY 2012	SCALE: 1" = 30'	SHEET 40 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — 7/19/12 DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



METHOD OF SECTIONS MS-1

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. — 55 HADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

DRAWN: ARB	DATE: JULY 2012	SCALE: 1"=100'	SHEET 41 OF 66

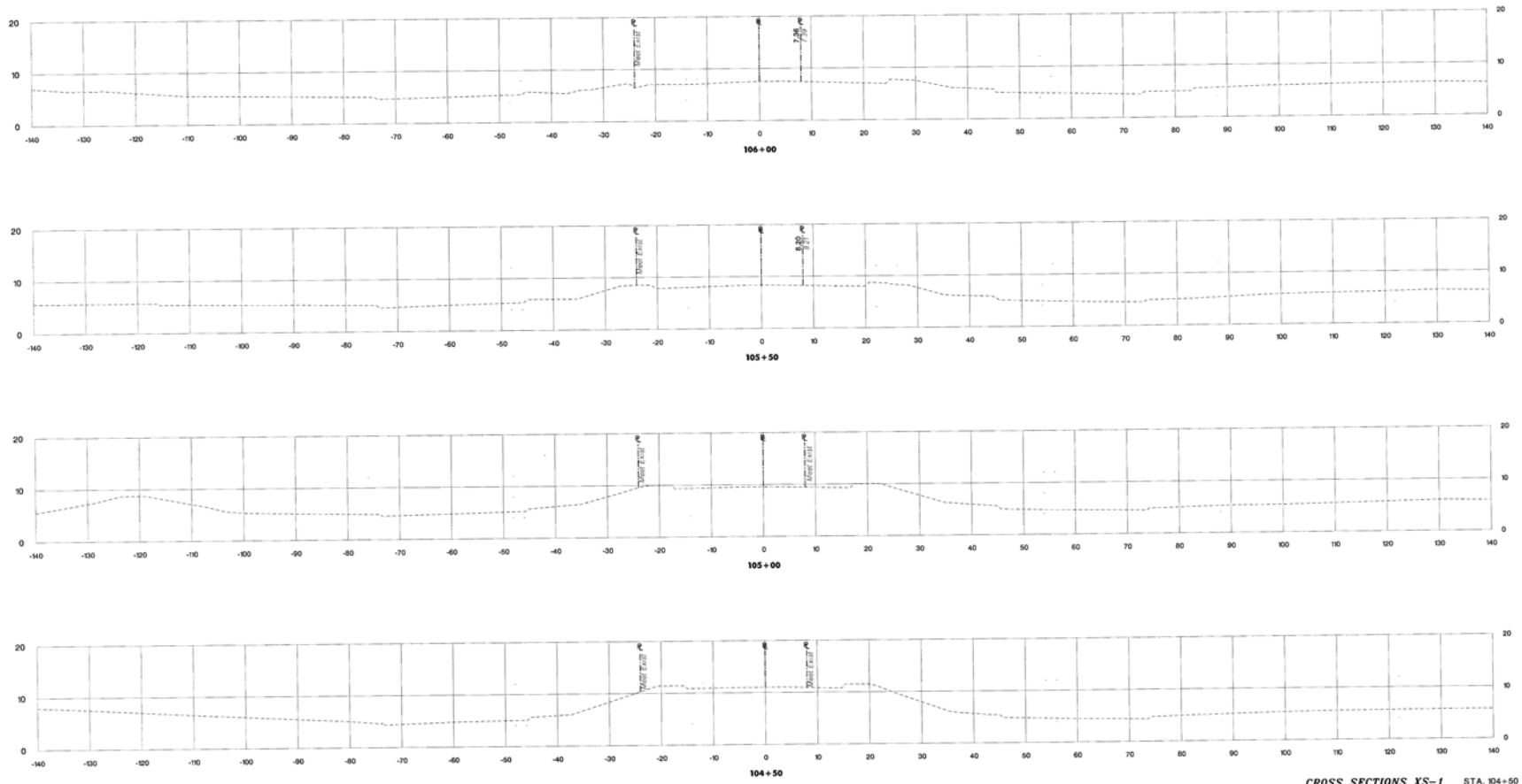
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. — N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/19/12

100' 50' 0 100' 200'

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J	STP-0115(105)



LEGEND

C = CUT	SQ. FT.
F = FILL	SQ. FT.
EUW = EXCAVATION, UNCLASSIFIED IN WET AREA	SQ. FT.
UMX = UNSUITABLE MATERIAL	SQ. FT.
SM = SELECTED MATERIAL	SQ. FT.
TS = TOPSOILING, 4 INCH THICK	LIN. FT.
SC = STIPPING IN CUT	LIN. FT.
SF = STRIPPING IN FILL	LIN. FT.
F&S = FERTILIZING AND SEEDING	LIN. FT.
RCBC = REMOVAL OF PAVEMENT SURFACE COURSES	SQ. FT.

NOTES

ALL CROSS-SECTION ARE RADIAL OR AT RIGHT ANGLES TO THE BASE LINE EXCEPT WHERE OTHER METHODS ARE INDICATED.

EXCAVATION AND EMBANKMENT QUANTITIES SHOWN ON THE CROSS SECTIONS ARE MEASURED BETWEEN THE DASHED LINES REPRESENTING THE SURFACE OF THE EXISTING GROUND AND THE SOLID LINES REPRESENTING THE LIMITS OF EXCAVATION OR EMBANKMENT, WHERE TOPSOILING IS PROPOSED. THE SOLID LINES INDICATE THE BOTTOM OF THE PROPOSED TOPSOIL.

THE PROPOSED GRADES SHOWN ON THE CROSS-SECTIONS ARE FOR ESTIMATING QUANTITIES.

REVISION	BY	CK'D	DATE

CROSS SECTIONS XS-1 STA. 104+50 TO STA. 106+00

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

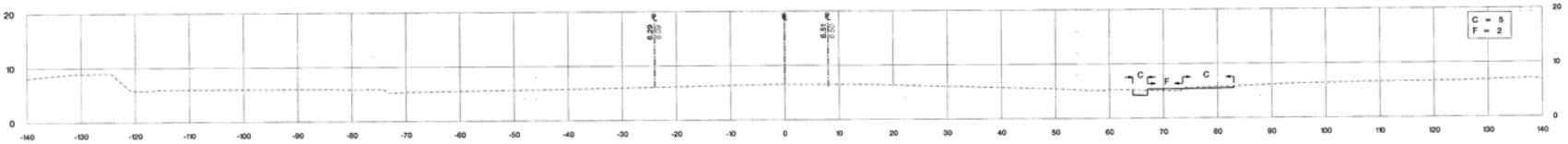
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

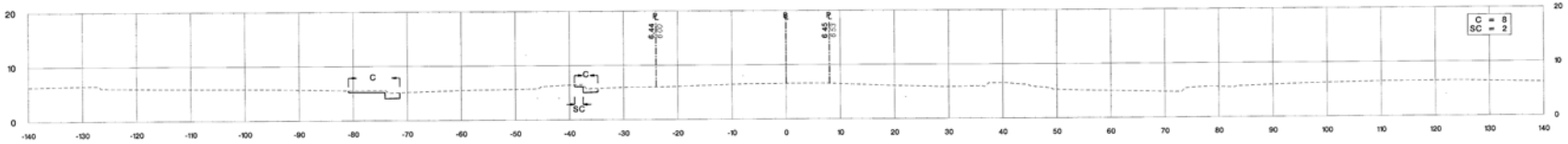
DRAWN: ARB | DATE: JULY 2012 | SCALE: AS SHOWN | SHEET 42 OF 66

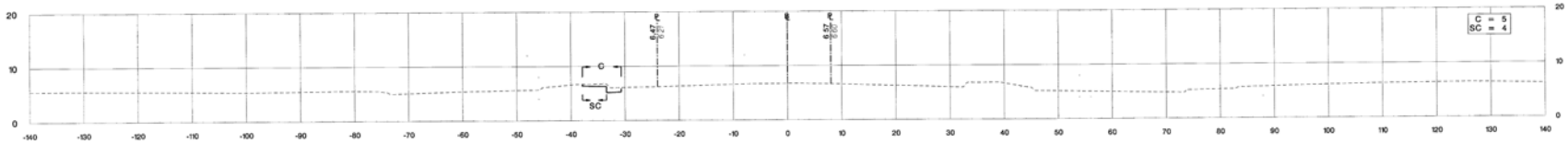
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

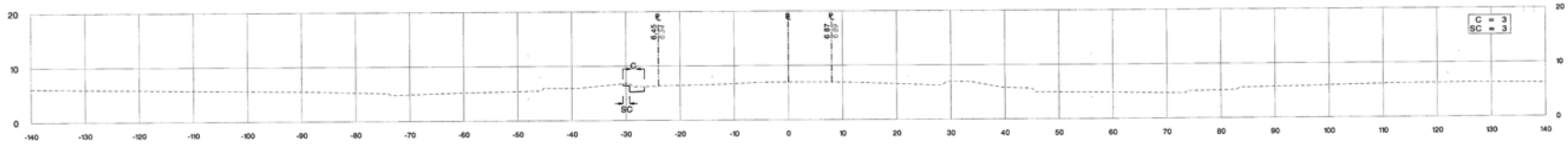
APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/9/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)









CROSS SECTIONS XS-2 STA. 106+50 TO STA. 108+00

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: ***IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)***
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

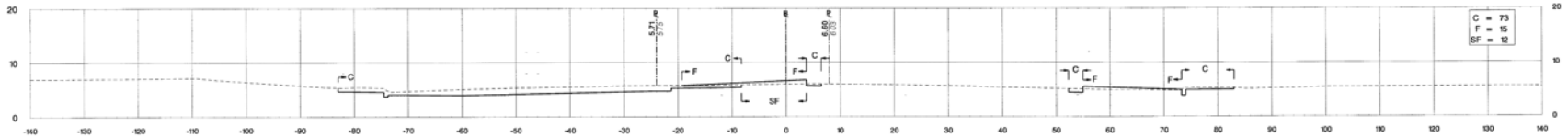
REVISION	BY	CK'D	DATE

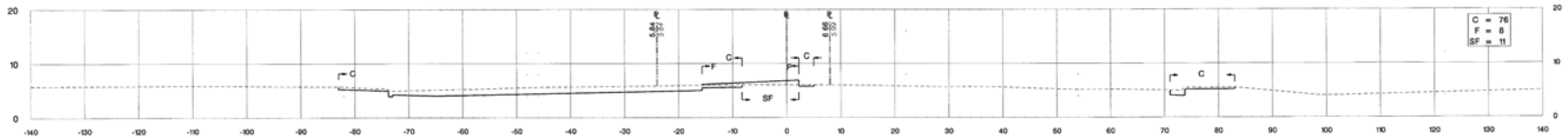
DRAWN: ARB | DATE: JULY 2012 | SCALE: AS SHOWN | SHEET 43 OF 66

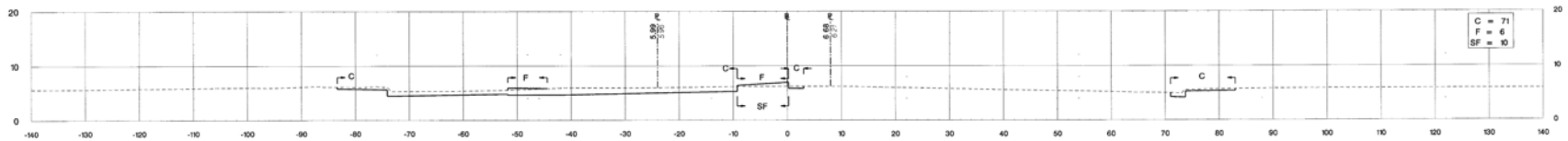
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

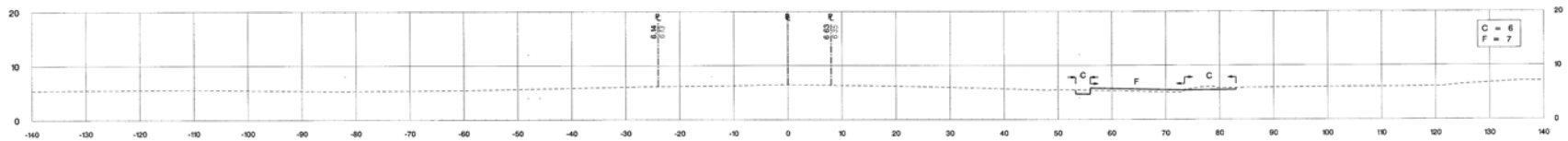
APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/09/12

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)









CROSS SECTIONS XS-3 STA. 108+50 TO STA. 110+00

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

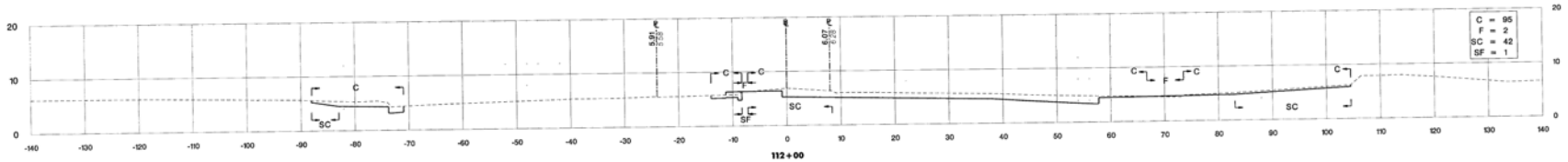
DRAWN: ARB	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 44 OF 66

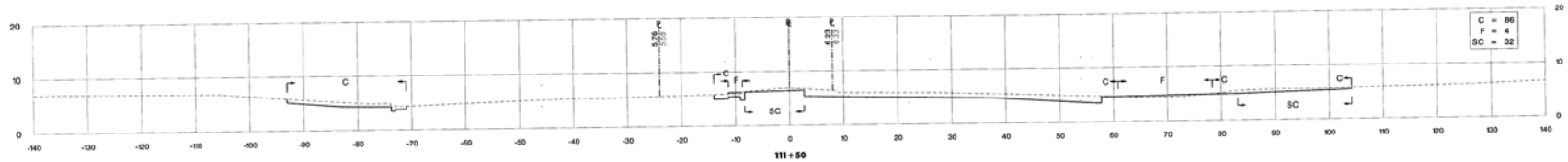
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

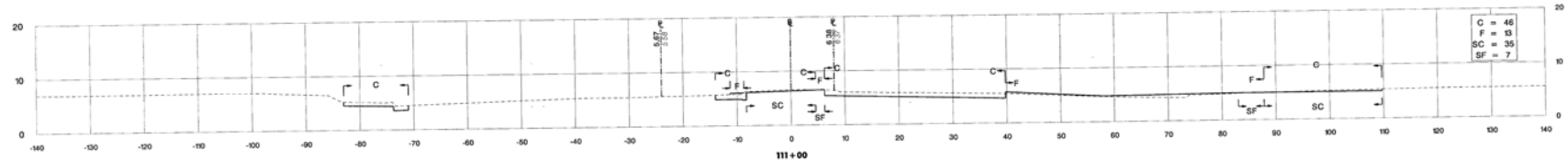
APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 2/10/12

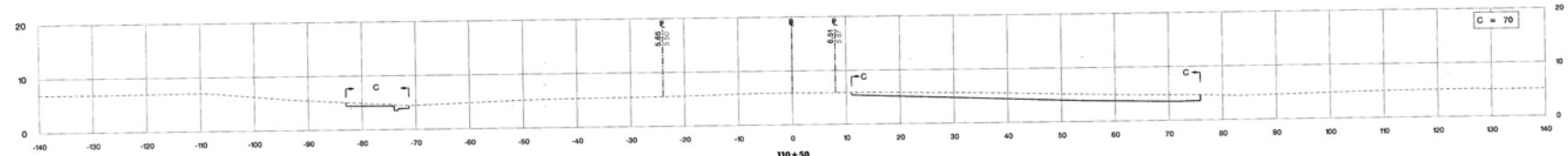
REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)









CROSS SECTIONS XS-4 STA. 110+50 TO STA. 112+00

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

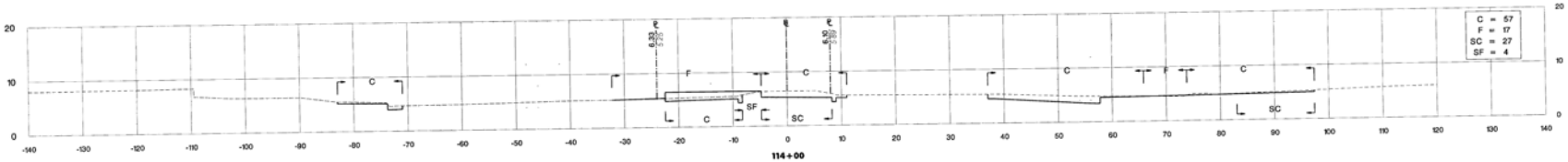
DRAWN: ARB	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 45 OF 66

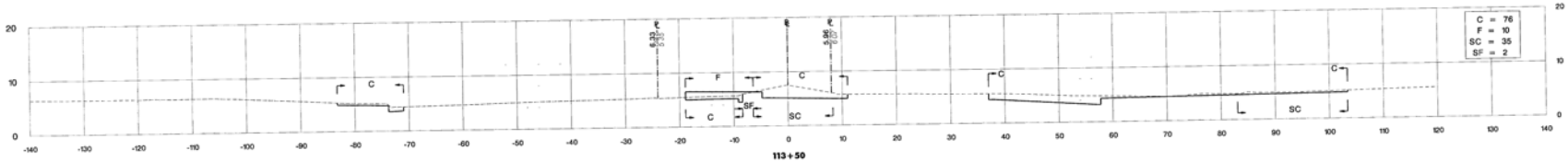
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

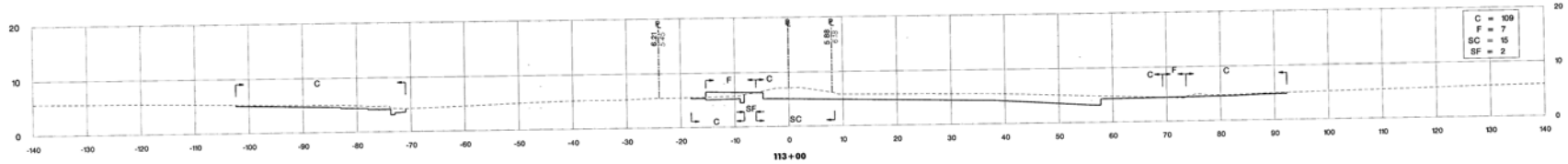
APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/10/12

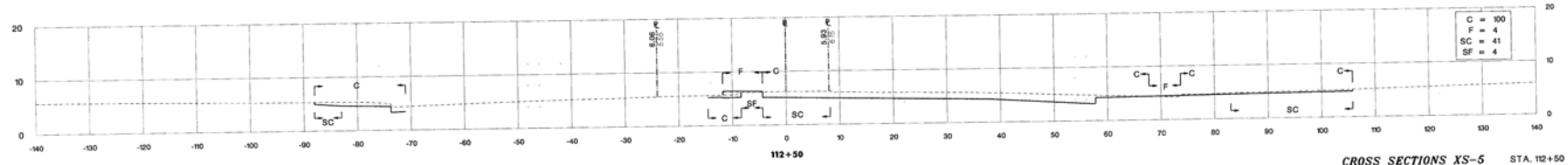
REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)









CROSS SECTIONS XS-5 STA. 112+50 TO STA. 114+00

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. — 55 HADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

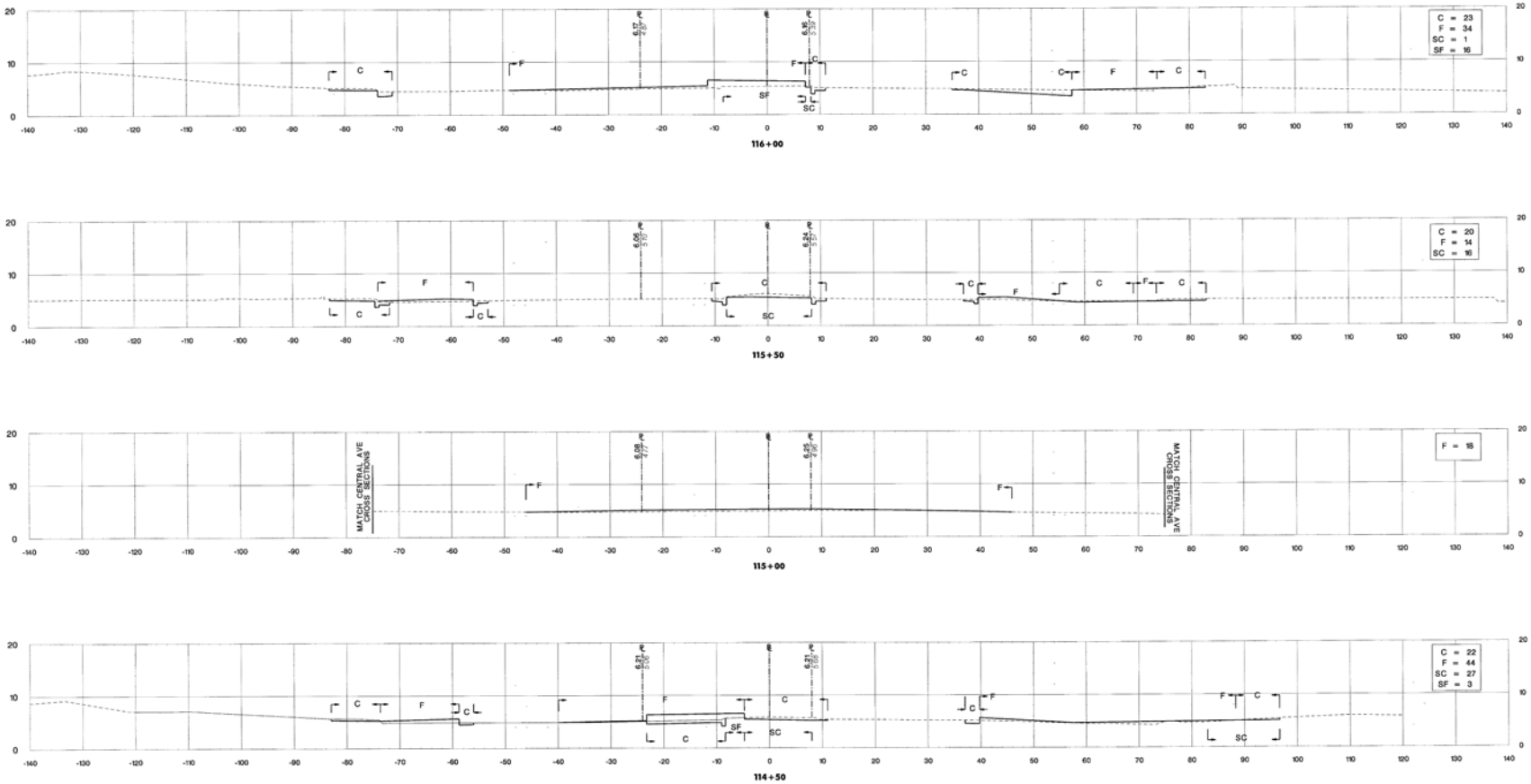
DRAWN: ARB	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 46 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/18/12

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



CROSS SECTIONS XS-6 STA. 114+50 TO STA 116+00

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

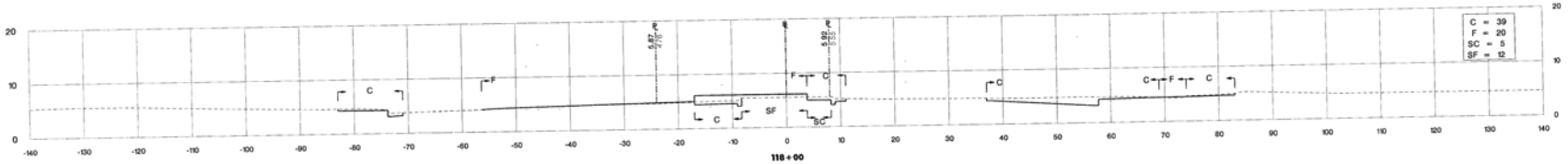
IMPROVEMENTS TO JFK BOULEVARD/
VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

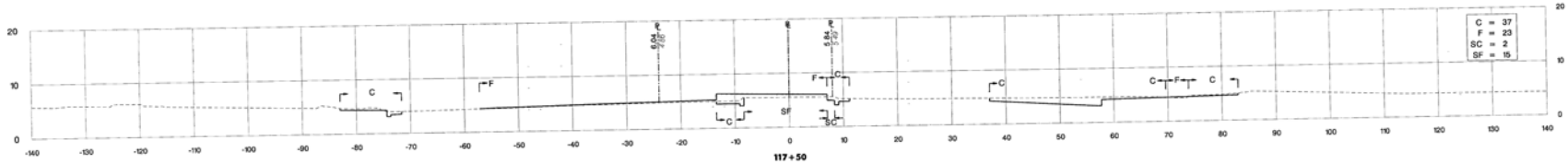
PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

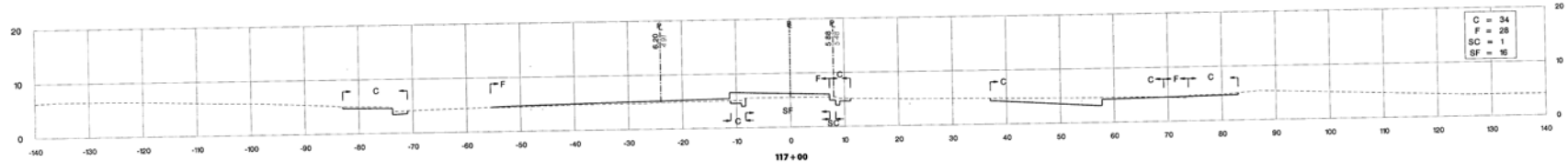
DRAWN: ARB	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 47 OF 66
PREPARED FOR: COUNTY OF CAPE MAY		CITY OF SEA ISLE CITY CAPE MAY COUNTY, NEW JERSEY	
APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300		7/19/12 DATE	

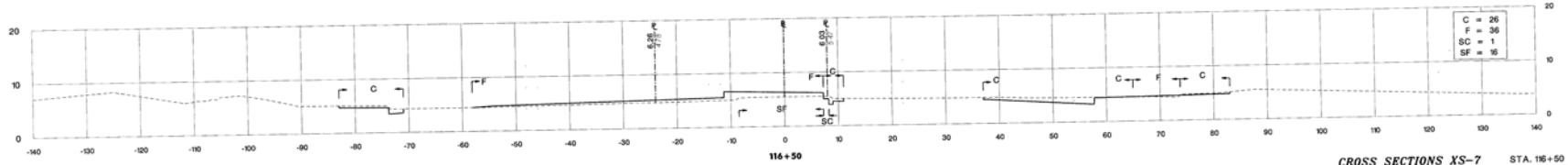
REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)









CROSS SECTIONS XS-7 STA. 116+50 TO STA. 118+00

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

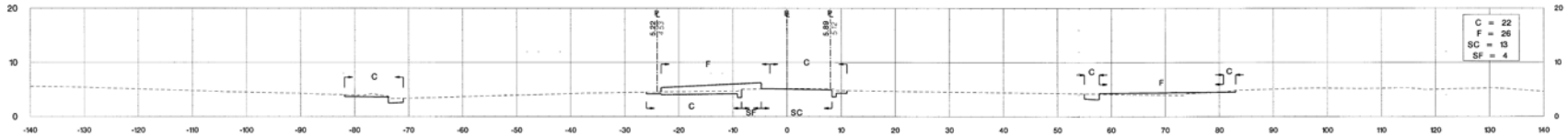
DRAWN: ARB	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 48 OF 66

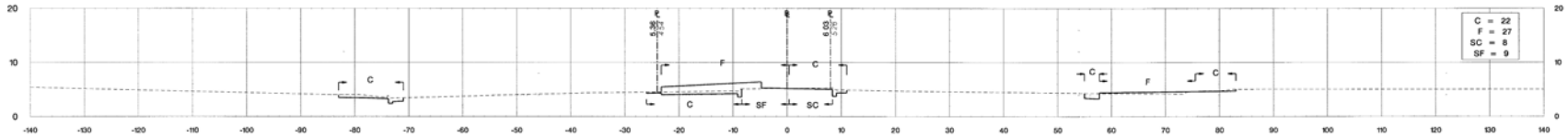
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

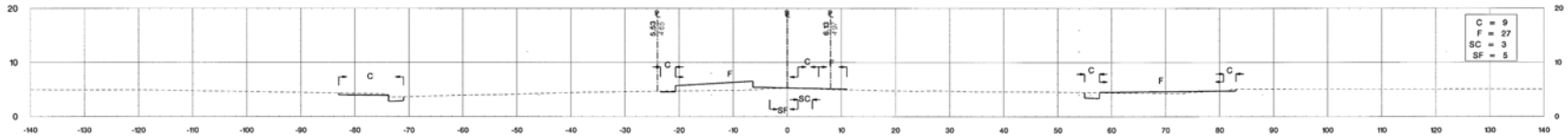
APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/10/12

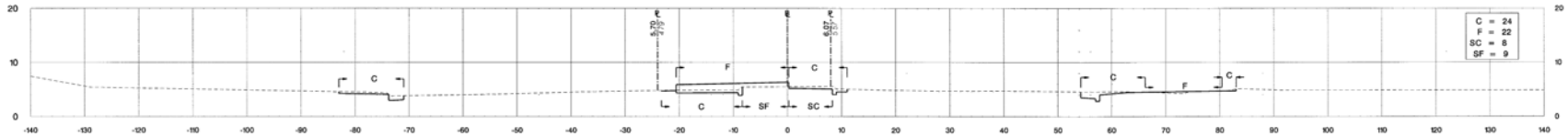
REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)









CROSS SECTIONS XS-8 STA. 118+50 TO STA. 120+00

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/
VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

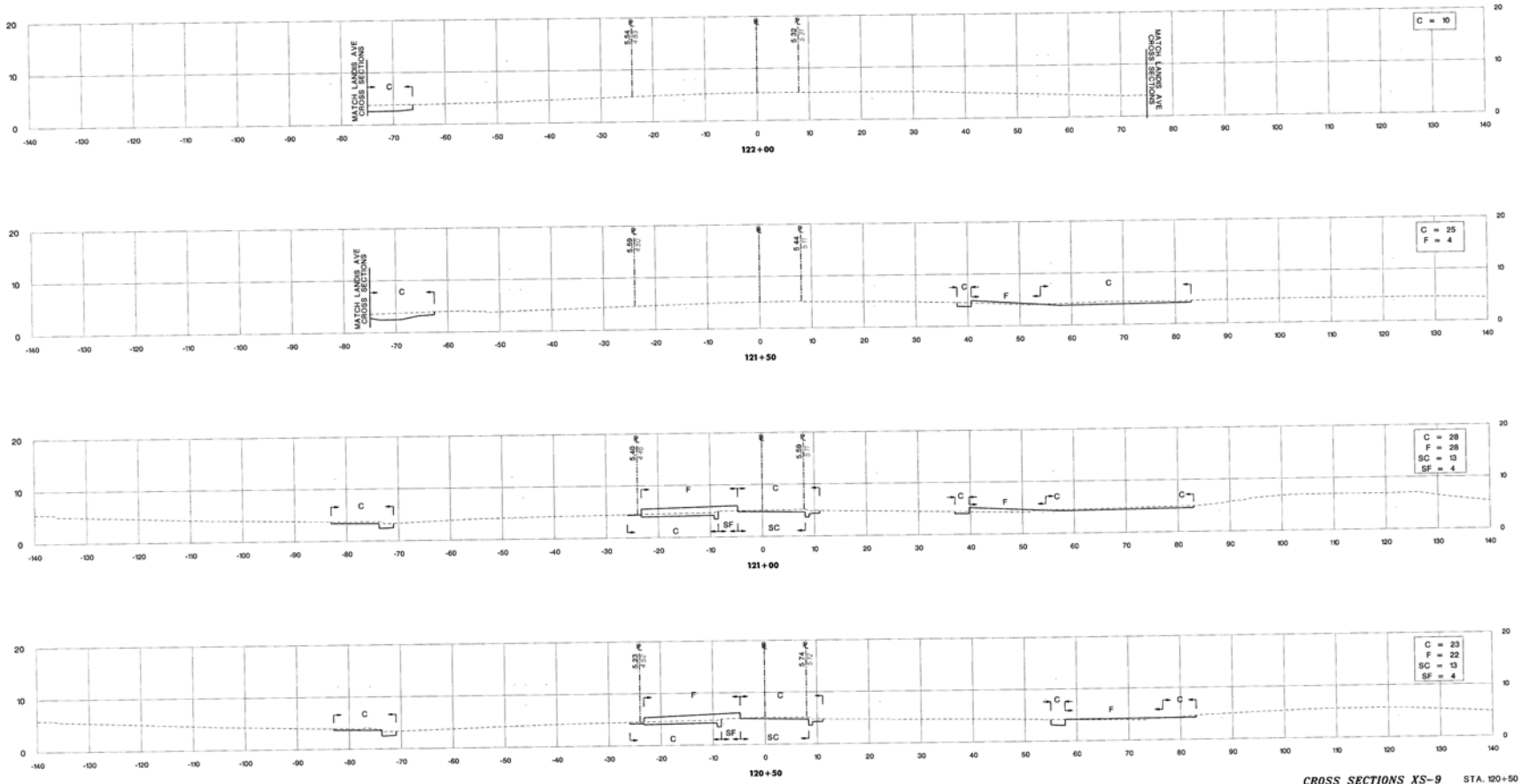
DRAWN: ARB | DATE: JULY 2012 | SCALE: AS SHOWN | SHEET 49 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



CROSS SECTIONS XS-9 STA. 120+50 TO STA. 122+00

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. 55 HADDONFIELD RD, SUITE 200 CHERRY HILL, NJ 08002-4803

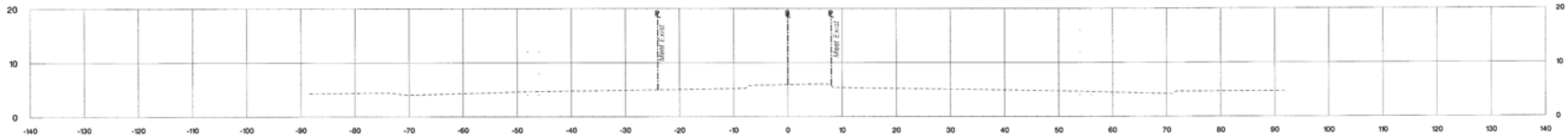
DRAWN: ARB	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 50 OF 66

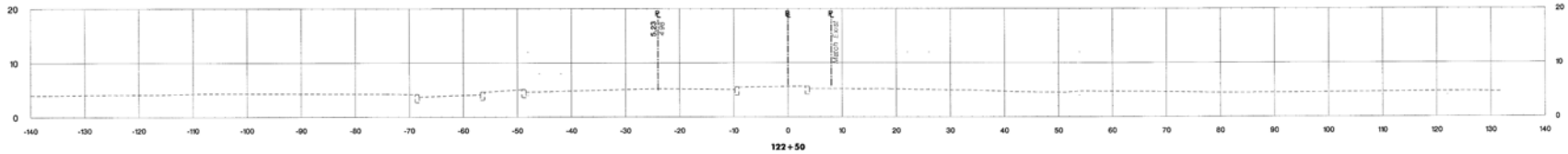
PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/18/12

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)





CROSS SECTIONS XS-10 STA. 122+50 TO STA. 123+00

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

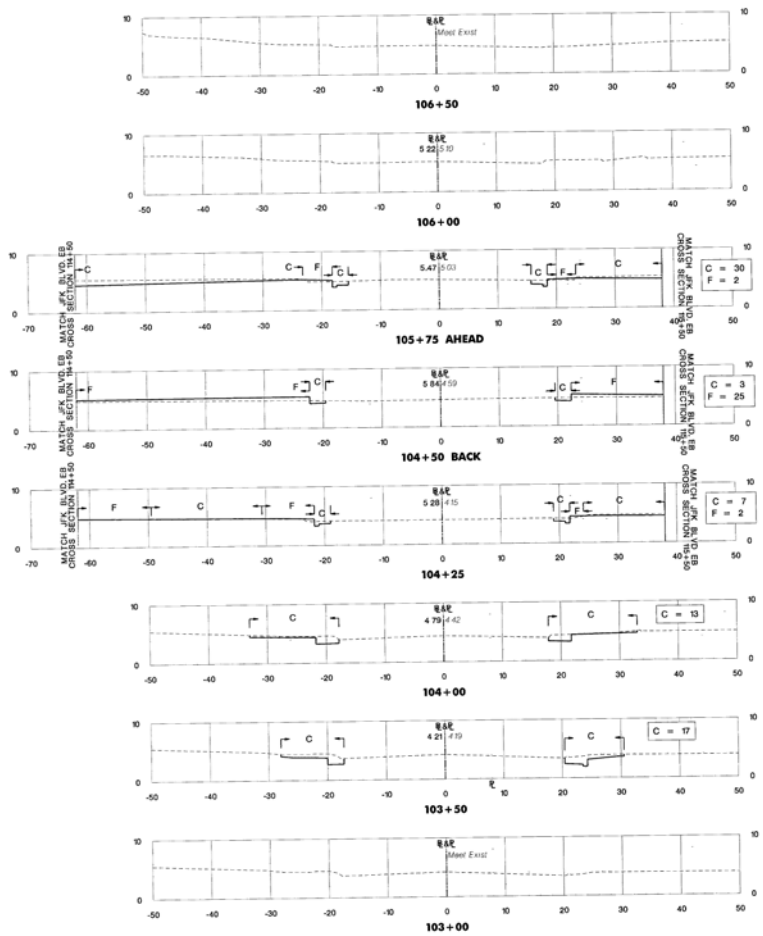
IMPROVEMENTS TO JFK BOULEVARD/
VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY:
URBAN ENGINEERS, INC.
55 HADDONFIELD RD, SUITE 200
CHERRY HILL, NJ 08002-4803

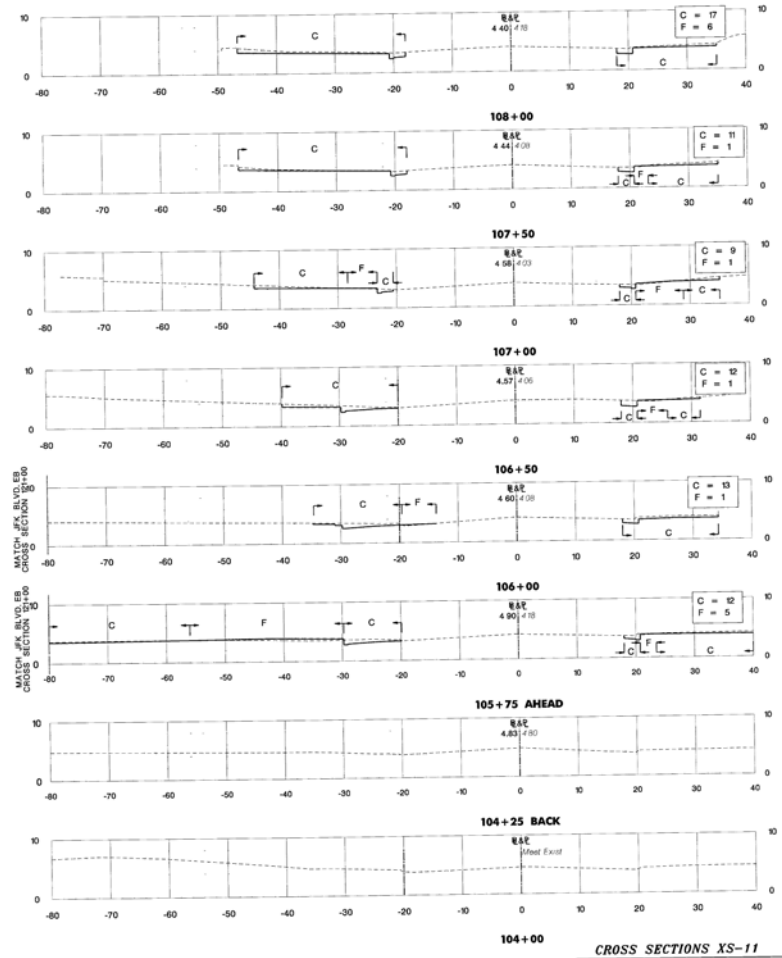
DRAWN: ARB	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 51 OF 66
PREPARED FOR:	COUNTY OF CAPE MAY	CITY OF SEA ISLE CITY CAPE MAY COUNTY, NEW JERSEY	
APPROVED:	STEVEN B. LOCHE, P.E. N.J. PROFESSIONAL ENGINEER No. 24GE04526300	7/19/12 DATE	

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



CENTRAL AVENUE
STA. 102+00 TO STA. 107+50



LANDIS AVENUE
STA. 104+00 TO STA. 108+00

CROSS SECTIONS XS-11

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB: *IMPROVEMENTS TO JFK BOULEVARD/ VETERANS BOULEVARD (CR 625)*
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY: URBAN ENGINEERS, INC. — 55 HADDONFIELD RD, SUITE 200, CHERRY HILL, NJ 08002-4803

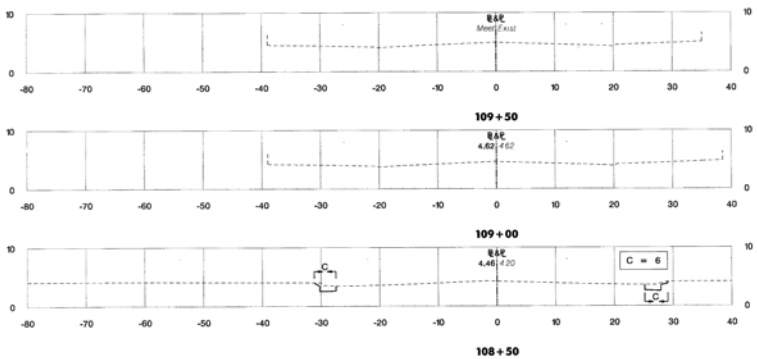
DRAWN: ARB | DATE: JULY 2012 | SCALE: AS SHOWN | SHEET 52 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E. — N.J. PROFESSIONAL ENGINEER No. 24GE04526300 — DATE 7/12/12

REVISION	BY	CK'D	DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



LANDIS AVENUE
STA. 108+50 TO STA. 109+50

EARTHWORK SUMMARY

EXCAVATION

Roadway Excavation From Cross-Sections	=	2,929 C.Y.
Stripping In Cuts	=	+ 240 C.Y.
Subtotal	=	3,169 C.Y.
Roadway Excavation From Plan Sheets	=	+ 0 C.Y.
TOTAL ROADWAY EXCAVATION	=	3,169 C.Y.

EXCAVATION AVAILABLE FOR EMBANKMENT

Total Roadway Excavation, Unclassified	=	3,169 C.Y.
Removal Of Conc. Base Course & Conc. Surface Course	=	+ 0 C.Y.
Foundation Excavation	=	+ 0 C.Y.
Bridge Excavation	=	+ 0 C.Y.
Ditch Excavation, Unclassified	=	+ 0 C.Y.
Subtotal	=	3,169 C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT With 10% Shrinkage (3,169 C.Y. x 0.90)	=	2,852 C.Y.

EMBANKMENT

Embankment From Cross-Sections	=	988 C.Y.
Stripping In Fill	=	+ 128 C.Y.
Embankment From Plan Sheets	=	+ 0 C.Y.
TOTAL EMBANKMENT REQUIRED	=	1,116 C.Y.

TOPSOIL

Stripping In Cuts	=	240 C.Y.
Stripping In Fills	=	+ 128 C.Y.
TOTAL STRIPPING AVAILABLE FOR TOPSOIL	=	368 C.Y.
TOPSOIL REQUIRED		
Topsoil, 4" Thick From Cross-Sections	=	0 C.Y.
Topsoil, 4" Thick From Plan Sheets	=	+ 160 C.Y.
TOTAL TOPSOIL, 4" THICK	=	160 C.Y.
Topsoil, 4" Thick (S.Y. x 0.111 YD.)	=	160 C.Y.
Topsoil For Planting	=	+ 0 C.Y.
TOTAL TOPSOIL REQUIRED	=	160 C.Y.

REVISION	BY	CK'D	DATE

CROSS SECTIONS XS-12

COUNTY OF CAPE MAY

OFFICE OF THE COUNTY ENGINEER

JOB:

IMPROVEMENTS TO JFK BOULEVARD/
VETERANS BOULEVARD (CR 625)
City of Sea Isle City, Cape May County, New Jersey

PREPARED BY:
URBAN ENGINEERS, INC.
55 HADDONFIELD RD. SUITE 200
CHERRY HILL, NJ 08002-4803

DRAWN: ARB	DATE: JULY 2012	SCALE: AS SHOWN	SHEET 53 OF 66

PREPARED FOR: COUNTY OF CAPE MAY — CITY OF SEA ISLE CITY, CAPE MAY COUNTY, NEW JERSEY

APPROVED: STEVEN B. LOCKE, P.E.
N.J. PROFESSIONAL ENGINEER No. 24GE04526300
7/12/12
DATE

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

JOHN F. KENNEDY/ VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

PUBLIC UTILITIES	
ELECTRIC	ATLANTIC CITY ELECTRIC– ENGINEERING 420 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NEW JERSEY 0821, 609–463–3818
GAS	SOUTH JERSEY GAS COMPANY – ENGINEERING 111 NORTH FRANKLIN AVENUE PLEASANTVILLE , NEW JERSEY 08232
TELEPHONE	VERIZON COMMUNICATIONS. – ENGINEERING 10 WEST JIMMIE LEEDS ROAD ABSECON, NEW JERSEY 08201
CABLE	COMCAST CABLE – ENGINEERING 901 WEST LEEDS ROAD ABSECON, NEW JERSEY 08201
WATER SEWER	CITY OF SEA ISLE CITY WATER AND SEWER DEPARTMENT 4416 LANDIS AVENUE SEA ISLE CITY, NEW JERSEY 08243

LOCATION OF UTILITIES SHOWN ON THE PLANS ARE PLOTTED FROM AVAILABLE DATA ON FILE WITH THE UTILITY COMPANIES AND ARE NOT WARRANTED AS TO EXACTNESS. CONTRACTOR IS TO DETERMINE EXACT LOCATION AND DEPTH OF UTILITIES AT ALL LOCATIONS PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

GENERAL CONSTRUCTION NOTES:

1. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
2. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:
   A. N.J. DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION", AS CURRENTLY AMENDED.
   B. CURRENT, PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
   C. CURRENT, PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
3. THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON, AND/OR IF SUCH CONDITIONS, IN CONTRACTOR'S OPINION, WOULD OR COULD RENDER THE DESIGNS SHOWN HEREON INAPPROPRIATE OR INEFFECTIVE.
4. THE CONTRACTOR IS ADVISED THAT ALL TREES, STRUCTURES, AND LANDSCAPING LOCATED WITHIN LIMIT OF DISTURBANCE ARE TO BE PROTECTED AND PRESERVED WHEN NOT IN CONFLICT WITH ACCESS TO OR CONSTRUCTION OF PROPOSED FACILITIES.
5. ALL AREAS AND STRUCTURES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER.
6. THE CONTRACTOR MUST COMPLY WITH STATE AND FEDERAL CONFINED SPACE RULES.
7. ALL ELEVATIONS OF EXISTING WATER, GAS AND TELEPHONE UTILITIES SHOWN ON THE PROFILES ARE ASSUMED, AND NO CLAIMS TO THEIR ACCURACY ARE MADE.
8. CONTRACTOR TO SAW CUT ALL PAVEMENTS WHERE DIRECTED, AT PROJECT SCOPE ENDS.
9. ENGINEER MAY REVISE DRAWINGS DURING CONSTRUCTION DUE TO UTILITY CONFLICTS, ETC.
10. REFER TO SHEETS 17 THRU 21 FOR GRADING INFORMATION.
11. REFER TO SHEETS 5 THRU 9 FOR CLEARING SITE AND STRIPPING REQUIREMENTS.
12. REFER TO SHEETS 5 THRU 9 FOR CONCRETE AND CONCRETE PAVER QUANTITIES.
13. ALL CURB RAMPS AND CROSSWALKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CONSTRUCTION PLANS, GRADING PLANS AND STREETSCAPE DETAILS.

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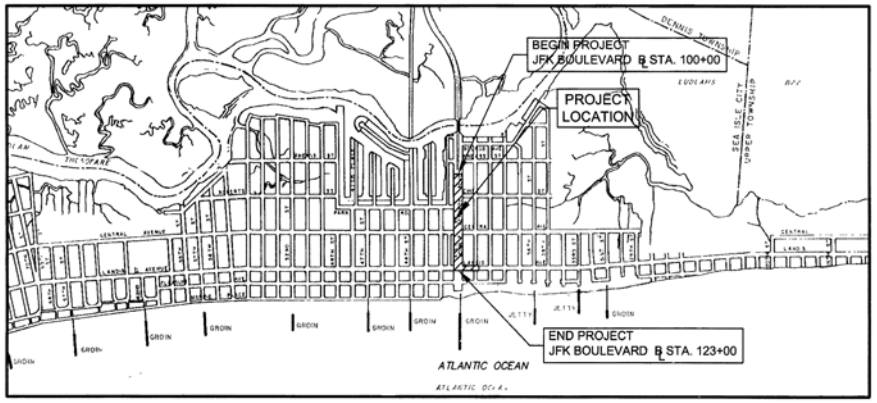

KEY MAP

1,000 0 1,000 2,000

SCALE IN FEET
(1"=1,000'±)

TO BE CONSTRUCTED				
SEQUENCE NO	ITEM NO	DESCRIPTION	UNIT	TOTAL CONTRACT QUANTITIES
74	701138P	MULTIPLE LIGHTING WIRE, NO. 8 AWG	LF	11000
75	701051P	SERVICE WIRE, NO. 4 AWG	LF	150
76	701002M	TREE GRATE ELECTRICAL OUTLET	UNIT	74
77	701003W	STREET LIGHT TYPE A, COMPLETE, LIGHTING STANDARD, LUMINAIRE, AND FOUNDATION	UNIT	27
78	701004W	STREET LIGHT TYPE B, COMPLETE, LIGHTING STANDARD, BANNER ARMS, LUMINAIRE, AND FOUNDATION	UNIT	62
79	701005W	BOLLARD LIGHT, COMPLETE WITH FOUNDATION	UNIT	58
80	701006W	BOLLARD UNLIT, COMPLETE WITH FOUNDATION	UNIT	6
84	701044P	2-1/4" FLEXIBLE NONMETALLIC CONDUIT	LF	2000
85	701042P	2" FLEXIBLE NONMETALLIC CONDUIT	LF	7250
91	701171M	METER CABINET TYPE 1L	UNIT	1
93	701183M	GROUND WIRE, NO. 10 AWG	LF	950
116	806001P	BACKFILL MIX	CY	10
117	806010M	STONE MULCHING, 3/8" DIA. PEA GRAVEL, "TREE GRATE MULCH, 4" THICK	CY	12
118	806018M	SHREDDED HARDWOOD BARK MULCHING, 4" THICK	SY	1105
119	811062M	LARGE DECIDUOUS TREE, CARPINUS BETULUS 'FASTIGIATA', PYRAMIDAL EUROPEAN HORNBEAM, 3" CAL., 14-16 HT., B&B	UNIT	74
120	811068M	EVERGREEN SHRUB, JUNIPERUS CHINENSIS VAR. SARGENTI, SARGENT JUNIPER, 18-24" HT., 5 GAL CONTAINER	UNIT	192
121	811200M	DECIDUOUS SHRUB, MYRICA PENSYLVANICA, BAYBERRY, 24-30" HT., 5 GAL CONTAINER	UNIT	43
122	811201M	DECIDUOUS SHRUB, PRUNUS MARITIMA, BEACH PLUM, 24-30" HT., 5 GAL CONTAINER	UNIT	43
123	811202M	DECIDUOUS SHRUB, ROSA 'RADRAZZ' 'RADRAZZ' KNOCKOUT ROSE, 24-30" HT., 5 GAL CONTAINER	UNIT	64
124	811203M	DECIDUOUS SHRUB, PANICUM VIRGATUM 'CHEYENNE SKY', RED SWITCH GRASS, 18-24" HT., 5 GAL CONTAINER	UNIT	47
125	811204M	DECIDUOUS SHRUB, PENNISETUM ORIENTALE 'KARLEY ROSE', "KARLEY ROSE' FOUNTAIN GRASS, 18-24" HT., 5 GAL. CONTAINER	UNIT	50
126	811205M	DECIDUOUS SHRUB, LIRIOPE MUSCARI 'VARIEGATA', VARIEGATED LILYTURF, 1 GAL. CONTAINER	UNIT	171
127	811206M	DECIDUOUS SHRUB, PENNISETUM ALOPECUROIDES 'LITTLE BUNNY', 'LITTLE BUNNY' FOUNTAIN GRASS, 3 GAL. CONTAINER	UNIT	119
128	811207M	DECIDUOUS SHRUB, VACCINIUM ANGUSTIFOLIUM, LOWBUSH BLUEBERRY, 3 GAL. CONTAINER	UNIT	69
129	811208M	TREE GRATE	UNIT	74
130	811209M	BENCH	UNIT	18
131	811210M	BIKE RACK	UNIT	4
132	811211M	IRRIGATION SYSTEM, DESIGN AND INSTALLATION	LS	LS
133	811212M	TREE WATERING SYSTEM	UNIT	74
134	701204P	MULTIPLE LIGHTING WIRE, NO. 12 AWG	LF	2250
135	701167P	ELECTRICAL SERVICE & CONTROL PANELS	LS	LS
136	701159M	12" X 12" X 18"D JUNCTION BOX	UNIT	24
137	701126M	FOUNDATION, TYPE MCF	UNIT	4

DRAWING LIST		
SHT. No.	DESCRIPTION	LATEST REVISION
54	KEY SHEET FOR STREETSCAPE	JUNE, 2012
55–58	STREETSCAPE PLANS	JUNE, 2012
59–62	LIGHTING PLANS	JUNE, 2012
63–66	CONSTRUCTION DETAILS– STREETSCAPE & LIGHTING	JUNE, 2012

0709201223

STREETSCAPE PLANS SS–1

REV.	DATE	DRAWN BY	DESCRIPTION
1	6/07/12	DMS	REVISED PER N.J.D.O.T. JUNE 5, 2012 COMMENTS

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Newburgh, N.Y.
Bethlehem, PA.

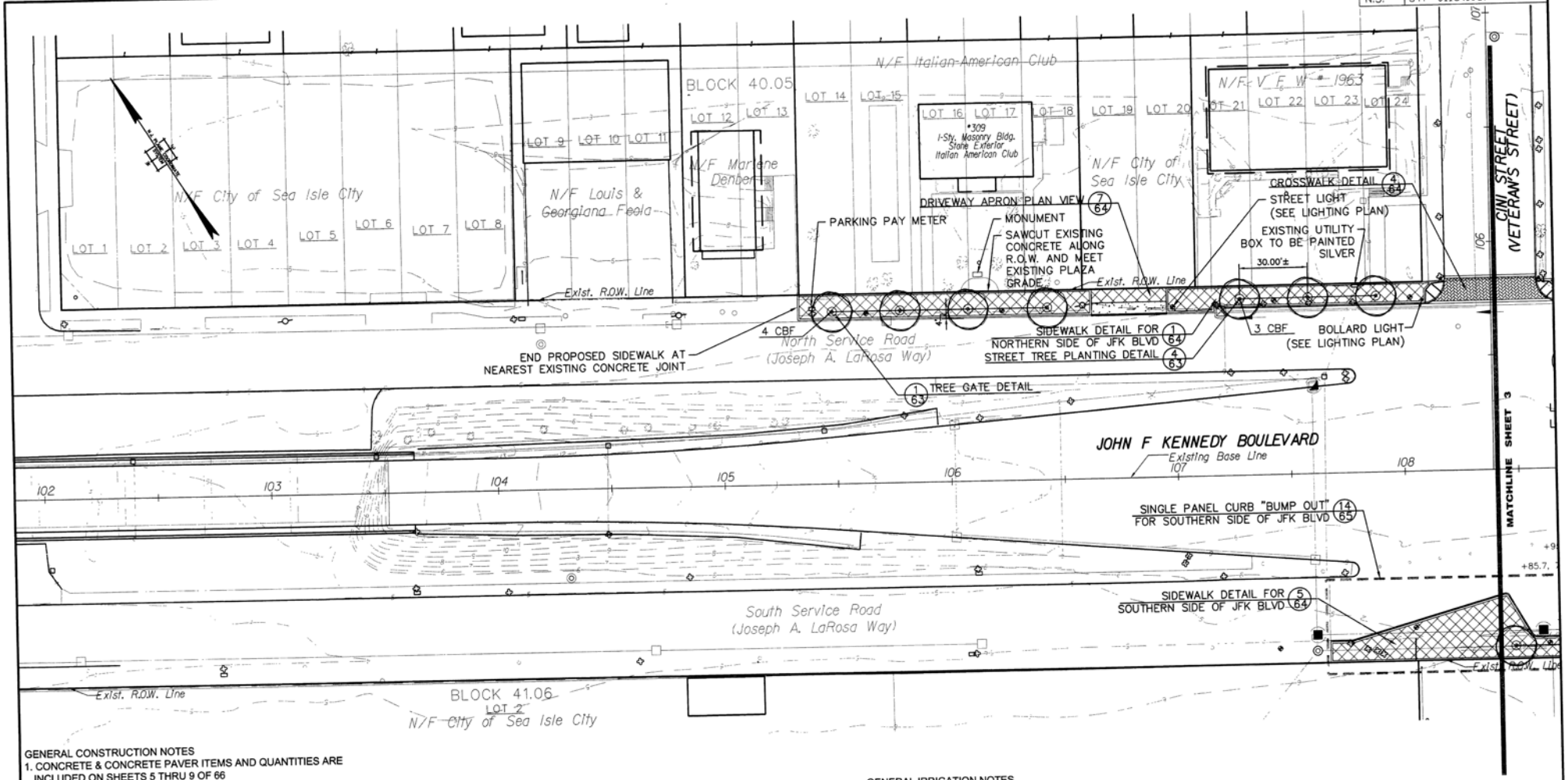
JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

COVER SHEET
FOR
SEA ISLE CITY

CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER: SC069	DATE: FEBRUARY 2012
SCALE: AS NOTED	LATEST REVISION:
INDEX NUMBER: RB016648	DESIGN BY: GED
SHEET NUMBER: 54 of 66	

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



GENERAL CONSTRUCTION NOTES

1. CONCRETE & CONCRETE PAVER ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66
2. SODDING ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66
3. CONSTRUCTION DETAIL NUMBER IS CONSISTENT WITH STREETSCAPE PLAN NUMBER. IE-DETAIL 8/64 IS ON SHEET 64 (SS-11).
4. CONSTRUCT SIDEWALKS, CROSSWALKS, DRIVEWAY APRONS AND PAVER SIDEWALKS IN ACCORDANCE WITH CONSTRUCTION PLANS, GRADING PLANS AND STREETSCAPE DETAILS.
5. ALL UTILITY FRAMES, GRATES, COVERS, ETC. ARE TO BE RESET TO MEET PROPOSED GRADES.

LEGEND

- PROPOSED STREET TREE AND TREE GRATE
- PROPOSED SHRUBS
- PROPOSED MULCH EDGE
- PROPOSED STREET LIGHT
- PROPOSED BOLLARD LIGHT
- PROPOSED UNLIT BOLLARD
- PROPOSED BENCH
- PROPOSED BIKE RACK
- PROPOSED CONCRETE SIDEWALK WITH PAVER EDGING
- PROPOSED CONCRETE SIDEWALK WITH DRIVEWAY APRON
- PROPOSED PAVER CROSSWALK
- PROPOSED PAVER SIDEWALK
- PROPOSED HANDICAP RAMP

SEQ. NO.	ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITIY
110	804001P	BACKFILL MIX	2 CY
117	809010M	STONE MULCHING, 3/8"DIA. PEA GRAVEL, TREE GRATE MULCH, 4" THICK.	1 CY
119	811002M	LARGE DECIDUOUS TREE, CARPINUS BETULUS 'FASTIGIATA', PYRAMIDAL EUROPEAN HORNBEAM, 3" CAL., 14-16' HT., B&B	7 UNITS
129	811208M	TREE GRATE	7 UNITS
132	811211M	IRRIGATION SYSTEM, DESIGN & INSTALLATION	LS
133	811212M	TREE WATERING SYSTEM	7 UNITS

GENERAL IRRIGATION NOTES

1. IRRIGATION SYSTEM & TREE WATERING SYSTEM TO BE CONSTRUCTED IN ACCORDANCE WITH DETAILS ON SHEET SS-12

20 0 20 40
SCALE IN FEET (1"=20')

STREETSCAPE PLANS SS-2

REV.	DATE	DRAWN BY	DESCRIPTION
1	6/07/12	DMS	REVISED PER N.J.D.O.T. JUNE 5, 2012 COMMENTS

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Newburgh, N.Y.
Bethlehem, PA.

JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

DIMENSION AND LANDSCAPE PLAN
FOR
SEA ISLE CITY

CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER	DATE
9K069	FEBRUARY 2012
SCALE: 1"=20'	LATEST REVISION
INDEX NUMBER: R9016643	DESIGN BY: GED
SHEET NUMBER: 55 of 66	

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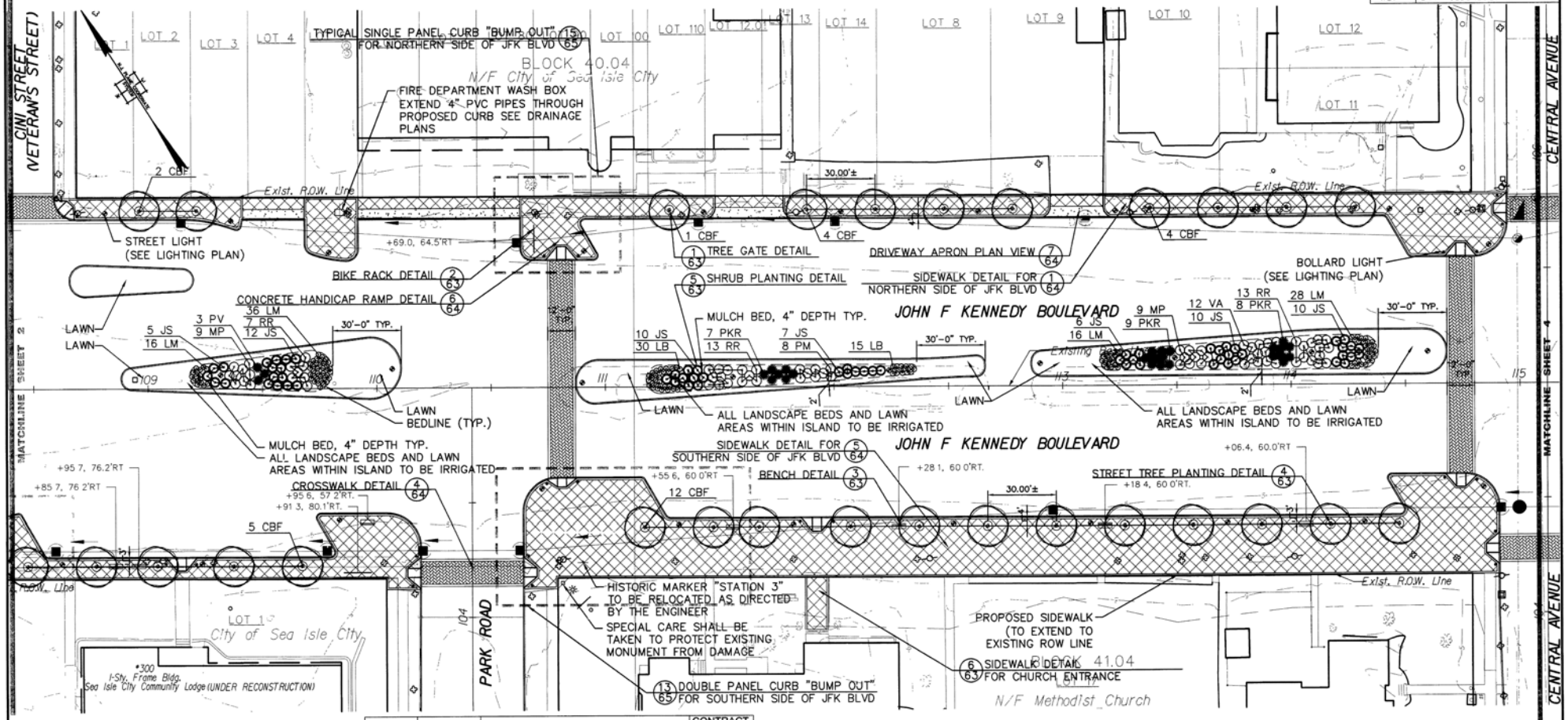
STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



GENERAL IRRIGATION NOTES
1. IRRIGATION SYSTEM & TREE WATERING SYSTEM TO BE CONSTRUCTED IN ACCORDANCE WITH DETAILS ON SHEET SS-12

GENERAL CONSTRUCTION NOTES
1. CONCRETE & CONCRETE PAVER ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66.
2. SODDING ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66.
3. CONSTRUCTION DETAIL NUMBER IS CONSISTENT WITH STREETSCAPE PLAN NUMBER. IE-DETAIL (#/##) IS ON SHEET 64 (SS-11).
4. CONSTRUCT SIDEWALKS, CROSSWALKS, DRIVEWAY APRONS AND PAVER SIDEWALKS IN ACCORDANCE WITH CONSTRUCTION PLANS, GRADING PLANS AND STREETSCAPE DETAILS.
5. ALL UTILITY FRAMES, GRATES, COVERS, ETC. ARE TO BE RESET TO MEET PROPOSED GRADES.

SEQ. NO.	ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITIY
110	804001P	BACKFILL MIX	37 CY
117	809010M	STONE MULCHING, 3/8"DIA. PEA GRAVEL, TREE GRATE MULCH, 4" THICK	5 CY
118	809016M	SHREDDED HARDWOOD BARK MULCHING, 4" THICK	367 SY
119	811002M	LARGE DECIDUOUS TREE, CARPINUS BETULUS 'FASTIGIATA', PYRAMIDAL EUROPEAN HORNBEAM, 3" CAL., 14-16' HT., B&B	28 UNITS
120	811089M	EVERGREEN SHRUB, JUNIPERUS CHINENSIS VAR SARGENTII, SARGENT JUNIPER, 18-24" HT., 5 GAL. CONTAINER	60 UNITS
121	811200M	DECIDUOUS SHRUB, MYRICA PENSYLVANICA, BAYBERRY, 24-30" HT., 5 GAL. CONTAINER	18 UNITS
122	811201M	DECIDUOUS SHRUB, PRUNUS MARITIMA, BEACH PLUM, 24-30" HT., 5 GAL. CONTAINER	8 UNITS
123	811202M	DECIDUOUS SHRUB, ROSA 'RADRAZZ', 'RADRAZZ' KNOCKOUT ROSE, 24-30" HT., 5 GAL. CONTAINER	33 UNITS
124	811203M	DECIDUOUS SHRUB, PANICUM VIRGATUM 'CHEYENNE SKY', RED SWITCH GRASS, 18-24" HT., 5 GAL. CONTAINER	3 UNITS
125	811204M	DECIDUOUS SHRUB, PENNISETUM ORIENTALE 'KARLEY ROSE', 'KARLEY ROSE' FOUNTAIN GRASS, 18-24" HT., 5 GAL. CONTAINER	24 UNITS
126	811205M	DECIDUOUS SHRUB, LIRIOPE MUSCARI 'VARIEGATA', VARIEGATED LILYTURF, 3 GAL. CONTAINER	96 UNITS
127	811206M	DECIDUOUS SHRUB, PENNISETUM ALOPECUROIDES 'LITTLE BUNNY', 'LITTLE BUNNY' FOUNTAIN GRASS, 3 GAL. CONTAINER	45 UNITS
128	811207M	DECIDUOUS SHRUB, VACCINIUM ANGUSTIFOLIUM, LOWBUSH BLUEBERRY, 3 GAL. CONTAINER	12 UNITS
129	811208M	TREE GRATE	28 UNITS
130	811209M	BENCH	7 UNITS
131	811210M	BIKE RACK	2 UNITS
132	811211M	IRRIGATION SYSTEM, DESIGN & INSTALLATION	LS
133	811212M	TREE WATERING SYSTEM	28 UNITS

20 0 20 40
SCALE IN FEET (1"=20')

STREETSCAPE PLANS SS-3

REV.	DATE	DRAWN BY	DESCRIPTION
2	6/28/12	DMS	ADDED HCR & WALKWAY FOR CHURCH ENTRANCE
1	6/07/12	DMS	REVISED PER N.J.D.O.T. JUNE 5, 2012 COMMENTS

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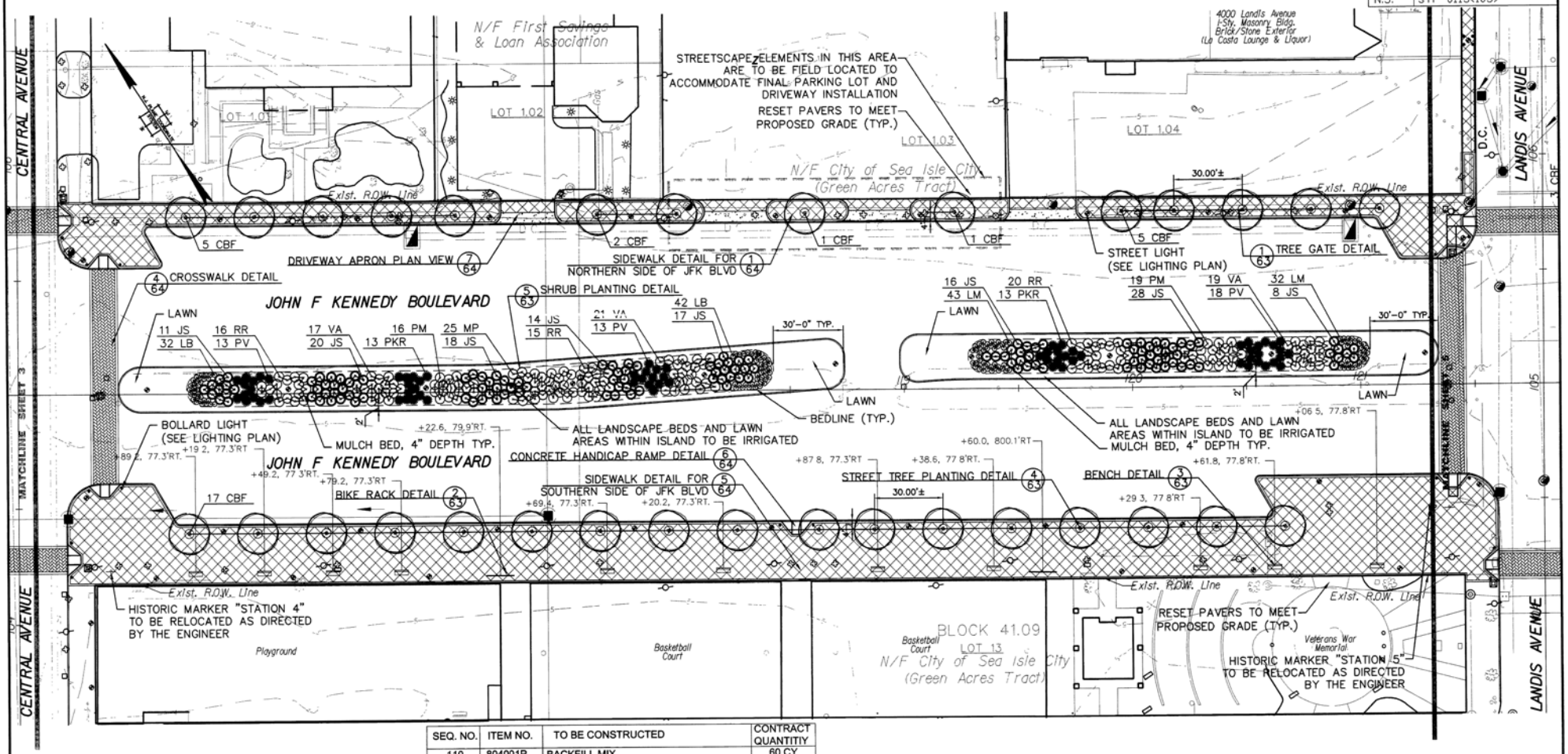
Bethlehem, PA.

JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

DIMENSION AND LANDSCAPE PLAN
FOR
SEA ISLE CITY
CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER: SIC069
DATE: FEBRUARY 2012
SCALE: 1"=20'
LATEST REVISION
INDEX NUMBER: RB016643
DESIGN BY: GED
SHEET NUMBER: 56 of 66

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



GENERAL IRRIGATION NOTES
1. IRRIGATION SYSTEM & TREE WATERING SYSTEM TO BE CONSTRUCTED IN ACCORDANCE WITH DETAILS ON SHEET SS-12

GENERAL CONSTRUCTION NOTES
1. CONCRETE & CONCRETE PAVER ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66.
2. SODDING ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66.
3. CONSTRUCTION DETAIL NUMBER IS CONSISTENT WITH STREETSCAPE PLAN NUMBER. IE-DETAIL 3/64 IS ON SHEET 64 (SS-11).
4. CONSTRUCT SIDEWALKS, CROSSWALKS, DRIVEWAY APRONS AND PAVER SIDEWALKS IN ACCORDANCE WITH CONSTRUCTION PLANS, GRADING PLANS AND STREETSCAPE DETAILS.
5. ALL UTILITY FRAMES, GRATES, COVERS, ETC. ARE TO BE RESET TO MEET PROPOSED GRADES.

SEQ. NO.	ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITIY
110	804001P	BACKFILL MIX	60 CY
117	809010M	STONE MULCHING, 3/8"DIA. PEA GRAVEL, TREE GRATE MULCH, 4" THICK	5 CY
118	809016M	SHREDDED HARDWOOD BARK MULCHING, 4" THICK	738 SY
119	811002M	LARGE DECIDUOUS TREE, CARPINUS BETULUS 'FASTIGIATA', PYRAMIDAL EUROPEAN HORNBEAM, 3" CAL., 14-16' HT., B&B	31 UNITS
120	811089M	EVERGREEN SHRUB, JUNIPERUS CHINENSIS VAR. SARGENTII, SARGENT JUNIPER, 18-24" HT., 5 GAL. CONTAINER	132 UNITS
121	811200M	DECIDUOUS SHRUB, MYRICA PENSYLVANICA, BAYBERRY, 24-30" HT., 5 GAL. CONTAINER	25 UNITS
122	811201M	DECIDUOUS SHRUB, PRUNUS MARITIMA, BEACH PLUM, 24-30" HT., 5 GAL. CONTAINER	35 UNITS
123	811202M	DECIDUOUS SHRUB, ROSA 'RADRAZZ', 'RADRAZZ' KNOCKOUT ROSE, 24-30" HT., 5 GAL. CONTAINER	51 UNITS
124	811203M	DECIDUOUS SHRUB, PANICUM VIRGATUM 'CHEYENNE SKY', RED SWITCH GRASS, 18-24" HT., 5 GAL. CONTAINER	44 UNITS
125	811204M	DECIDUOUS SHRUB, PENNISETUM ORIENTALE 'KARLEY ROSE', 'KARLEY ROSE' FOUNTAIN GRASS, 18-24" HT., 5 GAL. CONTAINER	26 UNITS
126	811205M	DECIDUOUS SHRUB, LIRIOPE MUSCARI 'VARIEGATA', VARIEGATED LILYTURF, 3 GAL. CONTAINER	75 UNITS
127	811206M	DECIDUOUS SHRUB, PENNISETUM ALOPECUROIDES 'LITTLE BUNNY', 'LITTLE BUNNY' FOUNTAIN GRASS, 3 GAL. CONTAINER	74 UNITS
128	811207M	DECIDUOUS SHRUB, VACCINIUM ANGUSTIFOLIUM, LOWBUSH BLUEBERRY, 3 GAL. CONTAINER	57 UNITS
129	811208M	TREE GRATE	31 UNITS
130	811209M	BENCH	11 UNITS
131	811210M	BIKE RACK	2 UNITS
132	811211M	IRRIGATION SYSTEM, DESIGN & INSTALLATION	LS
133	811212M	TREE WATERING SYSTEM	31 UNITS

20 0 20 40
SCALE IN FEET (1"=20')

REV.	DATE	DRAWN BY	DESCRIPTION
1	6/07/12	DMS	REVISED PER NJDOT JUNE 5, 2012 COMMENTS

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JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

DIMENSION AND LANDSCAPE PLAN
FOR
SEA ISLE CITY

CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER: SIC069
DATE: FEBRUARY 2012
SCALE: 1"=20'
LATEST REVISION:
INDEX NUMBER: RB016643
DESIGN BY: GED
SHEET NUMBER: 57 of 66

STREETSCAPE PLANS SS-4

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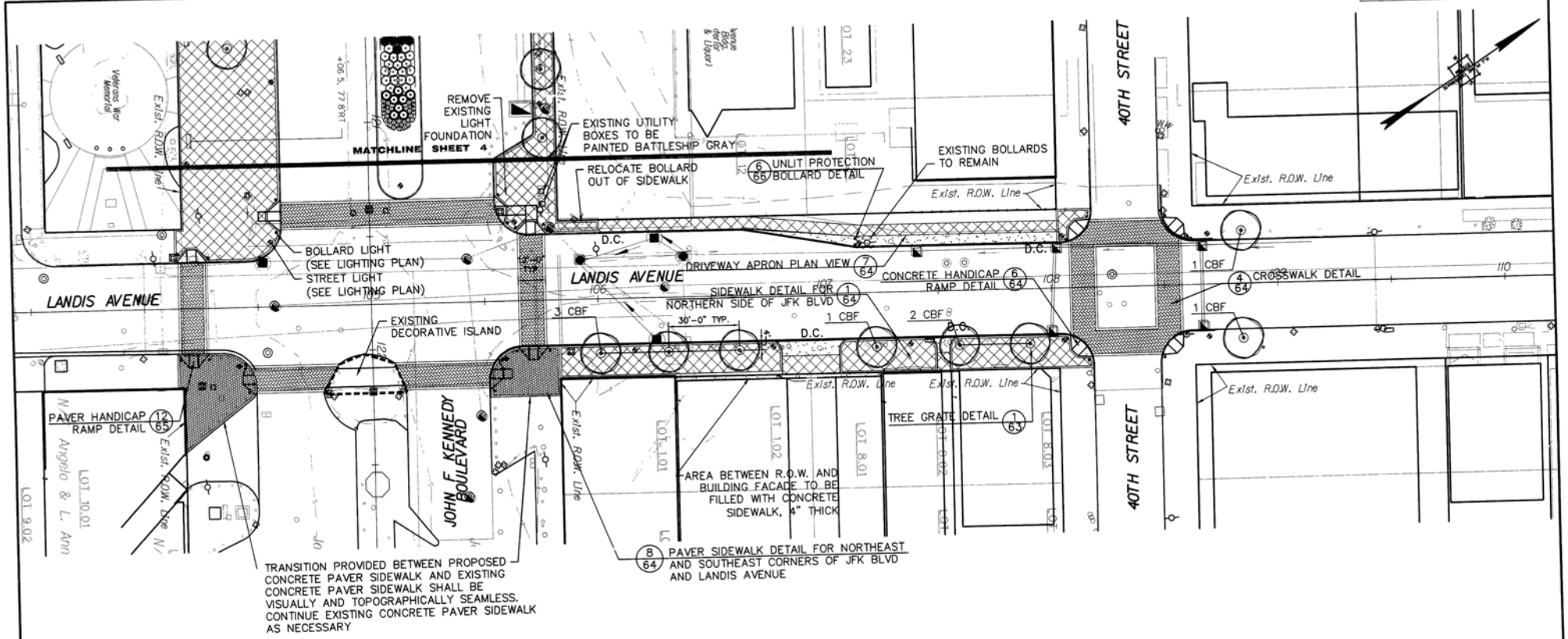
STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



SEQ. NO.	ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITIY
80	701006M	BOLLARD UNLIT COMPLETE WITH FOUNDATION	6 UNITS
110	804001P	BACKFILL MIX	2.0 CY
117	809010M	STONE MULCHING, 3/8"DIA. PEA GRAVEL, TREE GRATE MULCH, 4" THICK	1.0 CY
119	811002M	LARGE DECIDUOUS TREE, CARPINUS BETULUS 'FASTIGIATA', PYRAMIDAL EUROPEAN HORNBEAM, 3" CAL., 14-16' HT., B&B	8 UNITS
129	811208M	TREE GRATE	8 UNITS
132	811211M	IRRIGATION SYSTEM, DESIGN & INSTALLATION	LS
133	811212M	TREE WATERING SYSTEM	8 UNITS

GENERAL IRRIGATION NOTES
1. IRRIGATION SYSTEM & TREE WATERING SYSTEM TO BE CONSTRUCTED IN ACCORDANCE WITH DETAILS ON SHEET SS-12

GENERAL CONSTRUCTION NOTES
1. CONCRETE & CONCRETE PAVER ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66
2. SODDING ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66.
3. CONSTRUCTION DETAIL NUMBER IS CONSISTENT WITH STREETSCAPE PLAN NUMBER. IE-DETAIL (8) IS ON SHEET 64 (SS-11).
4. CONSTRUCT SIDEWALKS, CROSSWALKS, DRIVEWAY APRONS AND PAVER SIDEWALKS IN ACCORDANCE WITH CONSTRUCTION PLANS, GRADING PLANS AND STREETSCAPE DETAILS.
5. ALL UTILITY FRAMES, GRATES, COVERS, ETC. ARE TO BE RESET TO MEET PROPOSED GRADES.

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20 0 20 40
SCALE IN FEET (1"=20')

STREETSCAPE PLANS SS-5

REV.	DATE	DRAWN BY	DESCRIPTION
1	6/07/12	DMS	REVISED PER N.J.D.O.T. JUNE 5, 2012 COMMENTS

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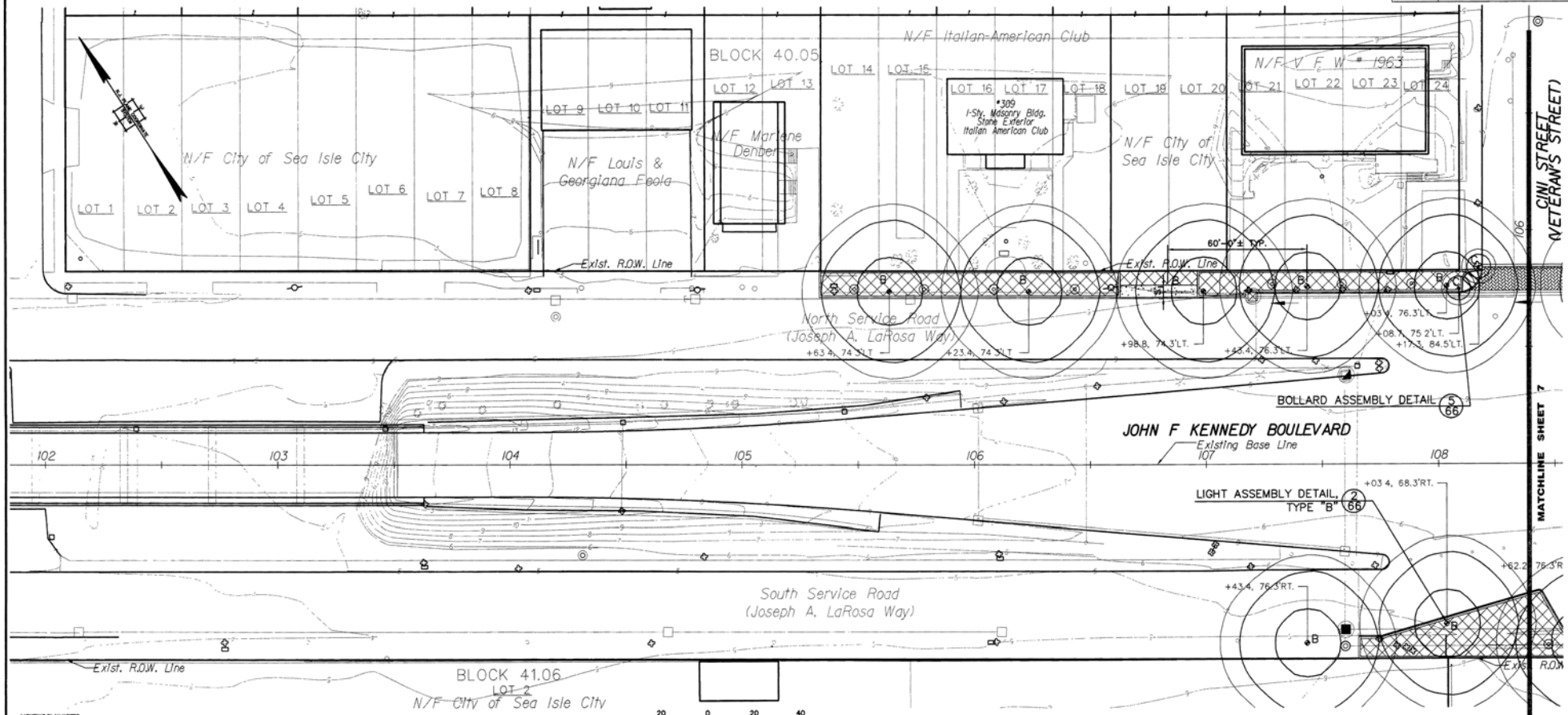
JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

DIMENSION AND LANDSCAPE PLAN
FOR
SEA ISLE CITY

CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER	DATE
SIC069	FEBRUARY 2012
SCALE 1"=20'	LATEST REVISION
INDEX NUMBER RB016643	DESIGN BY GED
SHEET NUMBER 58 of 66	

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



LIGHTING PLAN NOTES

1 THIS PLAN IS TO BE USED FOR LIGHTING PURPOSES ONLY
2 LIGHTING STANDARDS AND LUMINAIRES AS MANUFACTURED BY STERNBERG LIGHTING OR APPROVED EQUAL
3 LAMPS SHALL BE LED LAMPS AS NOTED ON THE DETAILS
4 POLES AND LUMINAIRES ARE TO BE BLACK
5 LIGHTING HAS BEEN DESIGNED TO PROVIDE A MAINTAINED MINIMUM AVERAGE ILLUMINATED FOOT CANDLE (FC) LEVEL OF 0.5 FC ALONG ALL STREETS IN ACCORDANCE WITH CITY REQUIREMENTS AND/OR THE IES RECOMMENDED ILLUMINATION LEVELS
6 POLE LOCATIONS MAY VARY DUE TO SITE CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY POLE LOCATIONS PRIOR TO INSTALLATION TO ACCOMMODATE UTILITIES, PAVEMENT, CURB AND THE NEW TRAFFIC SIGNALS
7 UNDER SEQUENCE NO. 135, ELECTRIC SERVICE AND CONTROL PANELS, THE CONTRACTOR SHALL COORDINATE WITH ATLANTIC CITY ELECTRIC COMPANY FOR PROVIDING ELECTRIC SERVICE FOR THE LIGHTING SYSTEM
8 THE CONTRACTOR SHALL PROVIDE AN UNDERGROUND ELECTRIC SERVICE SYSTEM DESIGN AND CONTROL PANELS USING THE PROJECT LIGHTING PLANS AND SHALL SUBMIT THE PROPOSED SYSTEM TO THE ENGINEER FOR REVIEW AND APPROVAL. THIS IS TO BE COMPLETE AFTER A CONTRACT IS AWARDED AND PRIOR TO A PRE-CONSTRUCTION MEETING. THIS WORK IS TO BE COMPLETED UNDER SEQUENCE NO. 176, ELECTRIC SERVICE AND CONTROL PANELS

GENERAL LIGHTING NOTES

1 CONSTRUCT LIGHT & BOLLARD ASSEMBLIES AND TREE GRATE ELECTRICAL OUTLETS IN ACCORDANCE WITH CONSTRUCTION DETAILS ON SHEETS SS-13
2 ALL LIGHTING FEEDERS SHALL BE 4-6# - 1-#6 (STRANDED) IN 2" CONDUIT TO END OF RUN. ALL LIGHT AND RECEPTACLE BRANCHES (WITHIN POLE) SHALL BE #10 PER PHASE + #10N & #10G.
3 ALL FEEDERS UNDER ROADWAY SHALL BE 24" BELOW GRADE FROM TOP OF CONDUIT
ALL FEEDERS UNDER WALKWAYS SHALL BE 18" BELOW GRADE FROM TOP OF CONDUIT
4. JUNCTION BOXES ARE BOTTOMLESS FIBERGLASS BODIES WITH POLYMER CEMENT COVERS. "STREETLIGHTING" SHALL BE PRINTED ON COVERS. JUNCTION BOXES ARE NOMINAL 12"x18"x18"D.
5. PROVIDE TAPS IN JUNCTION BOX FOR FUTURE EXPANSION
6. LOCATE NEW SERVICE DROP WITH METER IN METER CABINET, TYPE TL MOUNT CABINET ON FOUNDATION, TYPE MC WITH BASE FLUSH ADJACENT GRADE METER HEIGHT TO BE PER ATLANTIC CITY ELECTRIC STANDARDS. PROVIDE TWO (2) KEYS TO OWNER. CONNECT LIGHTING CIRCUIT TO SERVICE PANELBOARD.
7. CONNECT NEW LIGHTING / SOLENOID CIRCUIT TO EXISTING FEEDER SERVING EXISTING LIGHTING. CIRCUIT TO ENERGIZE WITH EXISTING
8 ALL TAPS SHALL BE RATED FOR WET LOCATIONS.
9. ALL LAMPS AND RECEPTACLES SHALL BE FUSED IN THE POLE BASE WITH WEATHER-RESISTANT FUSE HOLDERS. LAMP BRANCH CIRCUITS ARE 208V-1 PHASE WITH 5 AMP FUSES, RECEPTACLE BRANCH CIRCUITS ARE 120V WITH 20 AMP FUSES
10. ALTERNATE PHASES AT EACH POLE. CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING
11. ELECTRIC METER PANEL TO BE FIELD LOCATED WITH CITY ENGINEER.

GENERAL CONSTRUCT NOTES

1. CONCRETE & CONCRETE PAVER ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66.
2. SODDING ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66.
3. CONSTRUCTION DETAIL NUMBER IS CONSISTENT WITH SHEET NUMBER. IE-DETAIL (2) IS ON SHEET 64 (SS-11).
4. CONSTRUCT SIDEWALKS, CROSSWALKS, DRIVEWAY APRONS AND PAVER SIDEWALKS IN ACCORDANCE WITH CONSTRUCTION PLANS, GRADING PLANS AND STREETSCAPE DETAILS.

LEGEND

SEQ. NO.	ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITIY
76	701002M	TREE GRATE ELECTRICAL OUTLET	7 UNITS
78	701004M	STREET LIGHT TYPE B, COMPLETE LIGHTING STANDARD, BANNER ARMS, LUMINAIRE & FOUNDATION	7 UNITS
79	701005M	BOLLARD LIGHT COMPLETE WITH FOUNDATION	2 UNITS
135	701167P	ELECTRICAL SERVICE & CONTROL PANELS	LUMP SUM

REV.	DATE	DRAWN BY	DESCRIPTION
1	6/07/12	DMS	REVISED PER NJSDOT. JUNE 5, 2012 COMMENTS

STREETSCAPE PLANS SS-6

Andrew A. Previti 7.6.12
ANDREW A. PREVITI
PROFESSIONAL ENGINEER
NEW JERSEY LIC. NO. 24GE03866300

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Chestnut Ridge, N.Y.
Newburgh, N.Y.
Bethlehem, PA.

JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

LIGHTING PLAN
FOR
SEA ISLE CITY

CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER: 9C069
DATE: FEBRUARY 2012
SCALE: 1"=20'
LATEST REVISION
INDEX NUMBER: R9015644
DESIGN BY: GED
SHEET NUMBER: 59 of 66

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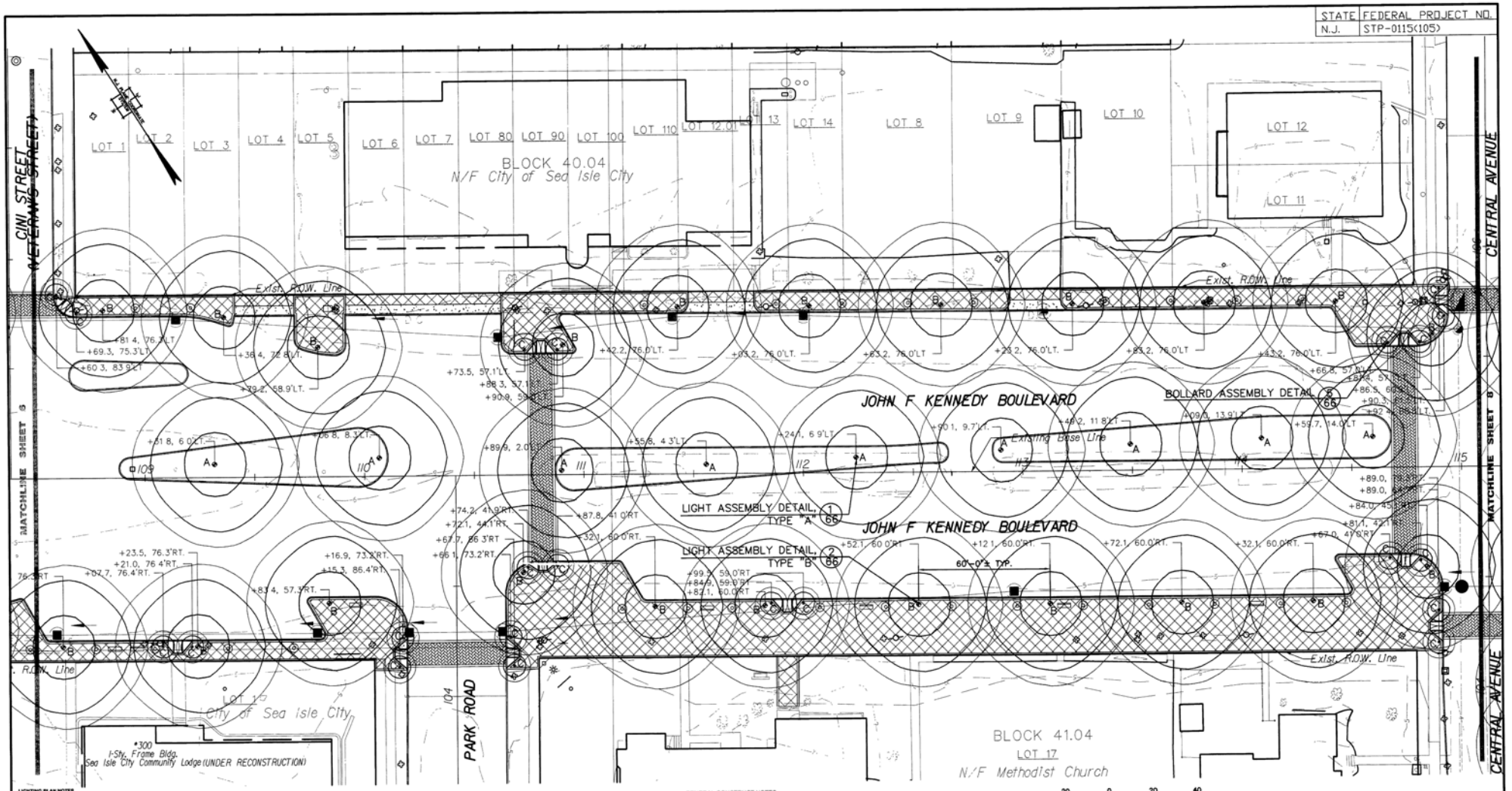
STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



LIGHTING PLAN NOTES

1 THIS PLAN IS TO BE USED FOR LIGHTING PURPOSES ONLY
2 LIGHTING STANDARDS AND LUMINAIRES AS MANUFACTURED BY STERNBERG LIGHTING OR APPROVED EQUAL
3 LAMPS SHALL BE LED LAMPS AS NOTED ON THE DETAILS
4 POLES AND LUMINAIRES ARE TO BE BLACK
5 LIGHTING HAS BEEN DESIGNED TO PROVIDE A MAINTAINED MINIMUM AVERAGE ILLUMINATED FOOT CANDLE (FC) LEVEL OF 0 5 FC ALONG ALL STREETS IN ACCORDANCE WITH CITY REQUIREMENTS AND/OR THE IES RECOMMENDED ILLUMINATION LEVELS
6 POLE LOCATIONS MAY VARY DUE TO SITE CONDITIONS THE CONTRACTOR SHALL FIELD VERIFY POLE LOCATIONS PRIOR TO INSTALLATION TO ACCOMMODATE UTILITIES, PAVEMENT, CURB AND THE NEW TRAFFIC SIGNALS
7 UNDER SEQUENCE NO 135, ELECTRIC SERVICE AND CONTROL PANELS, THE CONTRACTOR SHALL COORDINATE WITH ATLANTIC CITY ELECTRIC COMPANY FOR PROVIDING ELECTRIC SERVICE FOR THE LIGHTING SYSTEM
8 THE CONTRACTOR SHALL PROVIDE AN UNDERGROUND ELECTRIC SERVICE SYSTEM DESIGN AND CONTROL PANELS USING THE PROJECT LIGHTING PLANS AND SHALL SUBMIT THE PROPOSED SYSTEM TO THE ENGINEER FOR REVIEW AND APPROVAL THIS IS TO BE COMPLETE AFTER A CONTRACT IS AWARDED AND PRIOR TO A PRE-CONSTRUCTION MEETING THIS WORK IS TO BE COMPLETED UNDER SEQUENCE NO 135, ELECTRIC SERVICE AND CONTROL PANELS

SEQ. NO.	ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITIY
76	701002M	TREE GRATE ELECTRICAL OUTLET	28 UNITS
77	701003M	STREET LIGHT TYPE A, COMPLETE LIGHTING STANDARD, LUMINAIRE & FOUNDATION	9 UNITS
78	701004M	STREET LIGHT TYPE B, COMPLETE LIGHTING STANDARD, BANNER ARMS, LUMINAIRE & FOUNDATION	22 UNITS
79	701005M	BOLLARD LIGHT COMPLETE WITH FOUNDATION	22 UNITS
91	701171M	METER CABINET, TYPE TL	1 UNIT
135	701167P	ELECTRICAL SERVICE & CONTROL PANELS	LUMP SUM

GENERAL LIGHTING NOTES
1. CONSTRUCT LIGHT & BOLLARD ASSEMBLIES AND TREE GRATE ELECTRICAL OUTLETS IN ACCORDANCE WITH CONSTRUCTION DETAILS ON SHEETS SS-13
2. ALL LIGHTING FEEDERS SHALL BE 4-6# + 5G (STRANDED) IN 2" CONDUIT TO END OF RUN. ALL LIGHT AND RECEPTACLE BRANCHES (WITHIN POLE) SHALL BE #10 PER PHASE + #10N & #10G.
3 ALL FEEDERS UNDER ROADWAY SHALL BE 24" BELOW GRADE FROM TOP OF CONDUIT.
ALL FEEDERS UNDER WALKWAYS SHALL BE 18" BELOW GRADE FROM TOP OF CONDUIT.
4. JUNCTION BOXES ARE BOTTOMLESS FIBERGLASS BODIES WITH POLYMER CEMENT COVERS. "STREETLIGHTING" SHALL BE PRINTED ON COVERS JUNCTION BOXES ARE NOMINAL 12"x18"x18"D.
5 PROVIDE TAPS IN JUNCTION BOX FOR FUTURE EXPANSION.
6. LOCATE NEW SERVICE DROP WITH METER IN METER CABINET, TYPE TL MOUNT CABINET ON FOUNDATION, TYPE MC WITH BASE FLUSH ADJACENT GRADE. METER HEIGHT TO BE PER ATLANTIC CITY ELECTRIC STANDARDS. PROVIDE TWO (2) KEYS TO OWNER. CONNECT LIGHTING CIRCUIT TO SERVICE PANELBOARD.
7 CONNECT NEW LIGHTING / SOLENOID CIRCUIT TO EXISTING FEEDER SERVING EXISTING LIGHTING. CIRCUIT TO ENERGIZE WITH EXISTING
8. ALL TAPS SHALL BE RATED FOR WET LOCATIONS
9. ALL LAMPS AND RECEPTACLES SHALL BE FUSED IN THE POLE BASE WITH WEATHER-RESISTANT FUSE HOLDERS. LAMP BRANCH CIRCUITS ARE 208V-1 PHASE WITH 5 AMP FUSES; RECEPTACLE BRANCH CIRCUITS ARE 120V WITH 20 AMP FUSES
10. ALTERNATE PHASES AT EACH POLE CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING PHASES
11. ELECTRIC METER PANEL TO BE FIELD LOCATED WITH CITY ENGINEER.

GENERAL CONSTRUCT NOTES
1. CONCRETE & CONCRETE PAVER ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66
2 SODDING ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66.
3 CONSTRUCTION DETAIL NUMBER IS CONSISTENT WITH SHEET NUMBER IE-DETAIL (A) IS ON SHEET 64 (SS-11).
4. CONSTRUCT SIDEWALKS, CROSSWALKS, DRIVEWAY APRONS AND PAVER SIDEWALKS IN ACCORDANCE WITH CONSTRUCTION PLANS, GRADING PLANS AND STREETSCAPE DETAILS.

STREETSCAPE PLANS SS-7

REV.	DATE	DRAWN BY	DESCRIPTION
2	6/28/12	DMS	ADDED BOLLARD LIGHTS AT NEW HCR
1	6/07/12	DMS	REVISED PER NJDOT JUNE 5, 2012 COMMENTS

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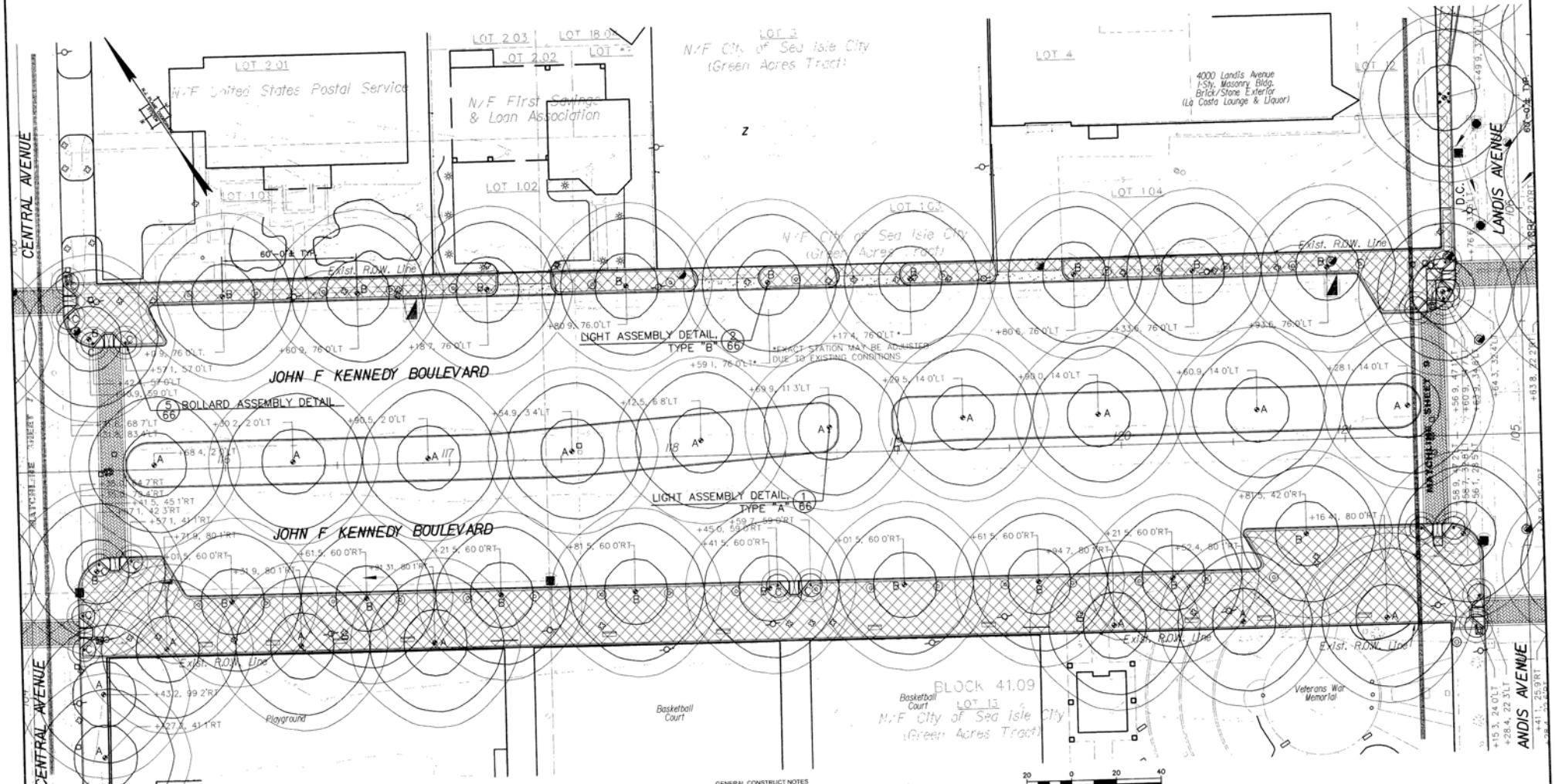
Bethlehem, PA.

JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

LIGHTING PLAN
FOR
SEA ISLE CITY
CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER: SIC069	DATE: FEBRUARY 2012
SCALE: 1"=20'	LATEST REVISION:
INDEX NUMBER: RS016644	DESIGN BY: GED
SHEET NUMBER: 60 of 66	

STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



STREETSCAPE PLANS SS-8

LIGHTING PLAN NOTES

1 THIS PLAN IS TO BE USED FOR LIGHTING PURPOSES ONLY
2 LIGHTING STANDARDS AND LUMINAIRES AS MANUFACTURED BY STERNBERG LIGHTING OR APPROVED EQUAL
3 LAMPS SHALL BE LED LAMPS AS NOTED ON THE DETAILS
4 POLES AND LUMINAIRES ARE TO BE BLACK
5 LIGHTING HAS BEEN DESIGNED TO PROVIDE A MAINTAINED MINIMUM AVERAGE ILLUMINATED FOOT CANDLE (FC) LEVEL OF 0.5 FC ALONG ALL STREETS IN ACCORDANCE WITH CITY REQUIREMENTS AND/OR THE IES RECOMMENDED ILLUMINATION LEVELS
6 POLE LOCATIONS MAY VARY DUE TO SITE CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY POLE LOCATIONS PRIOR TO INSTALLATION TO ACCOMMODATE UTILITIES, PAVEMENT CURB AND THE NEW TRAFFIC SIGNALS
7 UNDER SEQUENCE NO. 135 ELECTRIC SERVICE AND CONTROL PANELS, THE CONTRACTOR SHALL COORDINATE WITH ATLANTIC CITY ELECTRIC COMPANY FOR PROVIDING ELECTRIC SERVICE FOR THE LIGHTING SYSTEM
8 THE CONTRACTOR SHALL PROVIDE AN UNDERGROUND ELECTRIC SERVICE SYSTEM DESIGN AND CONTROL PANELS USING THE PROJECT LIGHTING PLANS AND SHALL SUBMIT THE PROPOSED SYSTEM TO THE ENGINEER FOR REVIEW AND APPROVAL. THIS IS TO BE COMPLETE AFTER A CONTRACT IS AWARDED AND PRIOR TO A PRE-CONSTRUCTION MEETING. THIS WORK IS TO BE COMPLETED UNDER SEQUENCE NO. 135, ELECTRIC SERVICE AND CONTROL PANELS

SEQ. NO.	ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITIY
76	701002M	TREE GRATE ELECTRICAL OUTLET	31 UNITS
77	701003M	STREET LIGHT TYPE A, COMPLETE LIGHTING STANDARD, LUMINAIRE & FOUNDATION	18 UNITS
78	701004M	STREET LIGHT TYPE B, COMPLETE LIGHTING STANDARD, BANNIER ARMS, LUMINAIRE & FOUNDATION	20 UNITS
79	701005M	BOLLARD LIGHT COMPLETE WITH FOUNDATION	10 UNITS
91	701171M	METER CABINET, TYPE TL	1 UNIT
135	701167P	ELECTRICAL SERVICE & CONTROL PANELS	LUMP SUM

GENERAL LIGHTING NOTES
1 CONSTRUCT LIGHT & BOLLARD ASSEMBLIES AND TREE GRATE ELECTRICAL OUTLETS IN ACCORDANCE WITH CONSTRUCTION DETAILS ON SHEETS SS-13
2 ALL LIGHTING FEEDERS SHALL BE 4-#8 + 6G (STRANDED) IN 2" CONDUIT TO END OF RUN. ALL LIGHT AND RECEPTACLE BRANCHES (WITHIN POLE) SHALL BE #10 PER PHASE + #10N & #10G
3 ALL FEEDERS UNDER ROADWAY SHALL BE 24" BELOW GRADE FROM TOP OF CONDUIT
ALL FEEDERS UNDER WALKWAYS SHALL BE 18" BELOW GRADE FROM TOP OF CONDUIT
4 JUNCTION BOXES ARE BOTTOMLESS FIBERGLASS BODIES WITH POLYMER CEMENT COVERS. "STREETLIGHTING" SHALL BE PRINTED ON COVERS
JUNCTION BOXES ARE NOMINAL 12"x18"x18"D
5 PROVIDE TAPS IN JUNCTION BOX FOR FUTURE EXPANSION
6 LOCATE NEW SERVICE DROP WITH METER IN METER CABINET, TYPE TL. MOUNT CABINET ON FOUNDATION, TYPE MC WITH BASE FLUSH ADJACENT GRADE. METER HEIGHT TO BE PER ATLANTIC CITY ELECTRIC STANDARDS. PROVIDE TWO (2) KEYS TO OWNER. CONNECT LIGHTING CIRCUIT TO SERVICE PANELBOARD
7 CONNECT NEW LIGHTING / SOLENOID CIRCUIT TO EXISTING FEEDER SERVING EXISTING LIGHTING. CIRCUIT TO ENERGIZE WITH EXISTING
8. ALL TAPS SHALL BE RATED FOR WET LOCATIONS
9 ALL LAMPS AND RECEPTACLES SHALL BE FUSED IN THE POLE BASE WITH WEATHER-RESISTANT FUSE HOLDERS. LAMP BRANCH CIRCUITS ARE 208V-1 PHASE WITH 5 AMP FUSES, RECEPTACLE BRANCH CIRCUITS ARE 120V WITH 20 AMP FUSES
10 ALTERNATE PHASES AT EACH POLE. CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING PHASES
11 ELECTRIC METER PANEL TO BE FIELD LOCATED WITH CITY ENGINEER

GENERAL CONSTRUCT NOTES
1 CONCRETE & CONCRETE PAVER ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66
2 SODDING ITEMS AND QUANTITIES ARE INCLUDED ON SHEETS 5 THRU 9 OF 66
3 CONSTRUCTION DETAIL NUMBER IS CONSISTENT WITH SHEET NUMBER. IE-DETAIL 2/5 IS ON SHEET 64 (SS-11)
4. CONSTRUCT SIDEWALKS, CROSSWALKS, DRIVEWAY APRONS AND PAVER SIDEWALKS IN ACCORDANCE WITH CONSTRUCTION PLANS, GRADING PLANS AND STREETSCAPE DETAILS

REV	DATE	DRAWN BY	DESCRIPTION
1	6/07/12	DMS	REVISED PER NJDOT, JUNE 5, 2012 COMMENTS

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JOHN F KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

LIGHTING PLAN
FOR
SEA ISLE CITY

CITY OF SEA ISLE · CAPE MAY COUNTY · NEW JERSEY

JOB NUMBER: SIC069
DATE: FEBRUARY 2012
SCALE: 1"=20'
LATEST REVISION
INDEX NUMBER: RB016644
DESIGN BY: GED
SHEET NUMBER: 61 of 66

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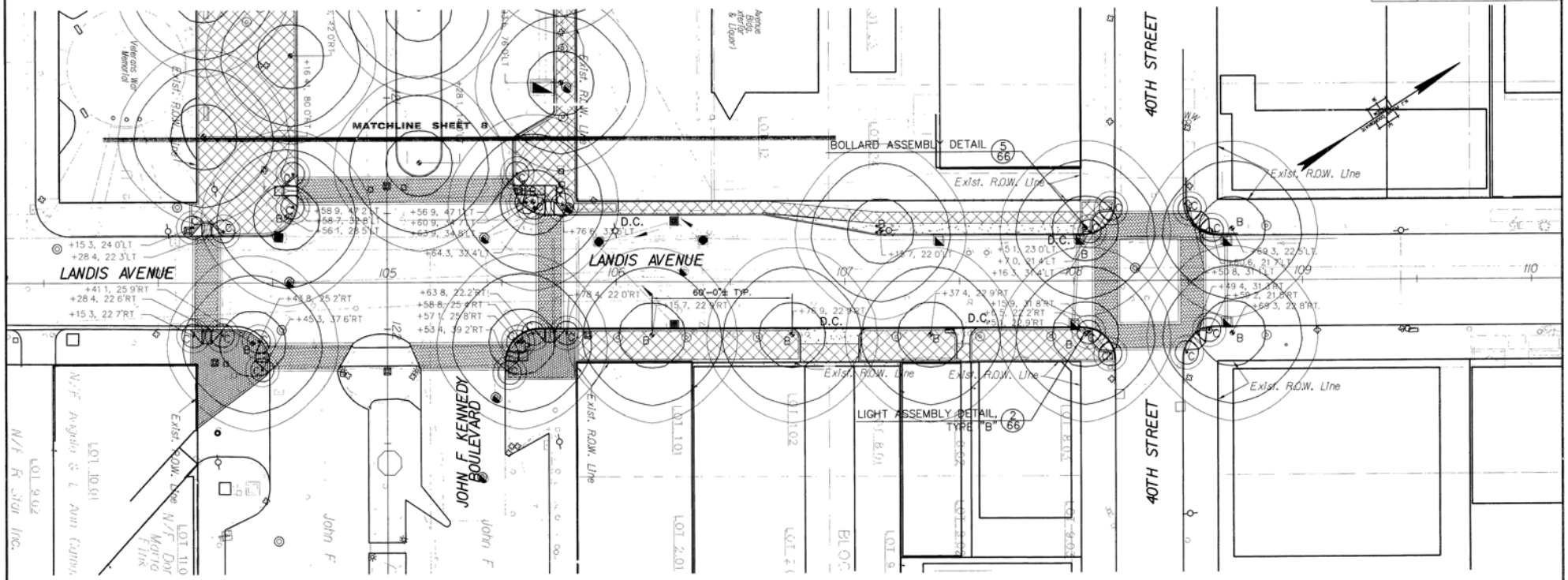
STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



20 0 20 40
SCALE IN FEET
(1"=20')

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SEQ. NO.	ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITIY
76	701002M	TREE GRATE ELECTRICAL OUTLET	8 UNITS
78	701004M	STREET LIGHT TYPE B, COMPLETE LIGHTING STANDARD, BANNER ARMS, LUMINAIRE & FOUNDATION	13 UNITS
79	701005M	BOLLARD LIGHT COMPLETE WITH FOUNDATION	24 UNITS
135	701167P	ELECTRICAL SERVICE & CONTROL PANELS	LUMP SUM

GENERAL LIGHTING NOTES
1 CONSTRUCT LIGHT & BOLLARD ASSEMBLIES AND TREE GRATE ELECTRICAL OUTLETS IN ACCORDANCE WITH CONSTRUCTION DETAILS ON SHEETS SS-13
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3 CONSTRUCTION DETAIL NUMBER IS CONSISTENT WITH SHEET NUMBER IE-DETAIL (2) IS ON SHEET 64 (SS-11)
4 CONSTRUCT SIDEWALKS, CROSSWALKS, DRIVEWAY APRONS AND PAVER SIDEWALKS IN ACCORDANCE WITH CONSTRUCTION PLANS, GRADING PLANS AND STREETSCAPE DETAILS

STREETSCAPE PLANS SS-9

REV	DATE	DRAWN BY	DESCRIPTION
1	6/07/12	DMS	REVISED PER N.J.D.O.T JUNE 5, 2012 COMMENTS

ANDREW A. PREVITI
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JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

LIGHTING PLAN
FOR
SEA ISLE CITY

CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER	DATE
SK069	FEBRUARY 2012
SCALE 1"=20'	LATEST REVISION
INDEX NUMBER R9016644	DESIGN BY GED
SHEET NUMBER 62 of 66	

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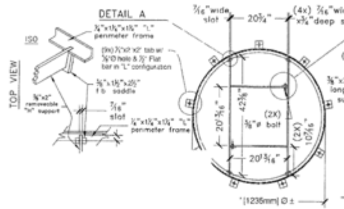
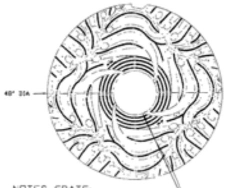
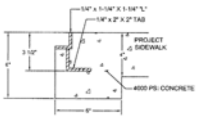
STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



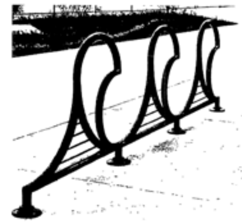
NOTES FRAME:
1. MATERIALS: MILD STEEL
2. NATURAL FINISH
3. FITS 48" ROUND GRATES MANUFACTURED BY: IRON AGE
4. ANY AND ALL WELDS ARE TO BE KEPT OUTSIDE OF GRAT/DRAIN BEARING SURFACES, WELDS ON BEARING SURFACES ARE TO BE GROUND SMOOTH.
5. FRAME TO BE E TYPE, 48" DIA., MANUFACTURED BY IRON AGE DESIGNS.





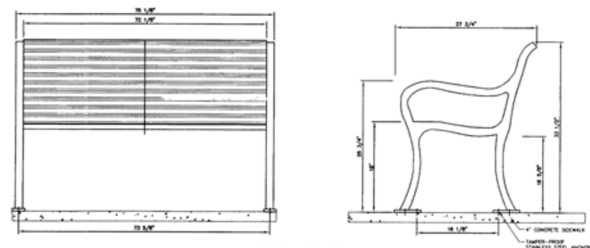
NOTES GRATE:
1. MATERIALS: CAST IRON
2. NATURAL FINISH
3. TOTAL THICKNESS: 1"
4. FITS, IRON AGE 4' DIA TREE GRATE FRAME
5. NO OPENINGS > 1/2"
6. SHIPS IN 2 PIECES
7. GRATE TO BE KELP TREE GRATE 4' DIA. MANUFACTURED BY: IRON AGE DESIGNS 2104 SW 152ND ST. NO. 4 BURIEN, WASHINGTON 98166 206-276-0925 206-257-0318(FAX)

1/63 TREE GRATE & FRAME DETAIL
NTS



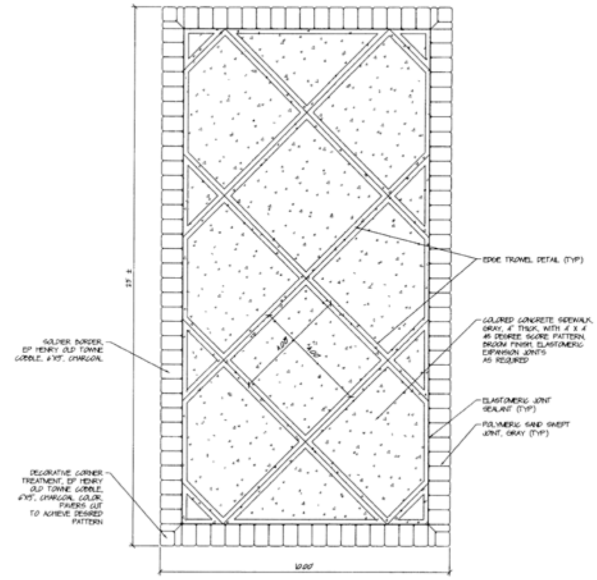
BIKE RACK COLUMBIA CASCADE ARTFUL CYCLOOPS
MODEL # 2178-16-P-C
FINISH REGAL BLUE POWERCOAT

2/63 BIKE RACK DETAIL
NTS

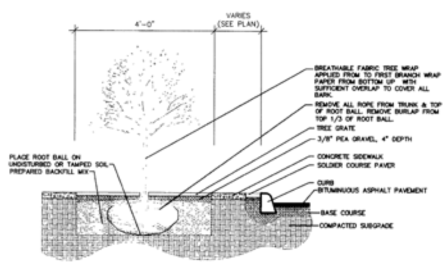


WABASH VALLEY MODEL # CY420
MATERIAL – SLATS
SEATING SURFACE PLASTISOL COLOR – BLACK
FRAME POWDERCOAT COLOR – BLACK

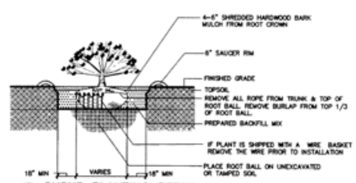
3/63 BENCH DETAIL
N.T.S.



6/63 SIDEWALK DETAIL FOR CHURCH ENTRANCE
SCALE: 1/2"=1'-0"



4/63 STREET TREE PLANTING DETAIL
NTS



5/63 SHRUB PLANTING DETAIL
N.T.S.

GENERAL PLANTING NOTES

1. THIS PLAN SHALL BE USED FOR LANDSCAPE PLANTING PURPOSES ONLY. EXAMINE ALL ENGINEERING DRAWINGS AND FIELD CONDITIONS FOR SPECIFIC LOCATIONS OF UTILITIES AND STRUCTURES. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR LOCATION CONFLICTS PRIOR TO PLANTING INSTALLATION
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES MARKOUTS AND COMPLIANCE WITH ALL FEDERAL, STATE, OR LOCAL CODES, LAWFUL ORDERS OR REGULATIONS GOVERNING UPON THIS WORK.
3. OWNER OR HIS/HER REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO BEGINNING PLANTING OPERATIONS.
4. PLANT MATERIAL.
   A. PLANT MATERIAL SHALL CONFORM WITH THE ANSI Z60-2004 'AMERICAN STANDARD FOR NURSERY STOCK' AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) IN REGARD TO QUALITY, SIZE OF PLANT, SPREAD OF ROOTS, SIZE OF ROOTBALL, AND BRANCHING PATTERN
   B. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, HAVE NORMAL GROWTH HABITS, WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND FREE FROM DEFECTS AND INJURY.
   C. ALL PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AT THE NURSERY. THE PLANT MATERIAL SHALL BE PLANTED AT THE SAME LEVEL OR SLIGHTLY HIGHER WHEN PLANTED.
   D. PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY TO THE SITE. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO PROTECT THE PLANT MATERIAL FROM DAMAGE PRIOR TO INSTALLATION.
   E. THE LANDSCAPE ARCHITECT OR OWNER SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL PLANT MATERIAL WHICH IN THEIR OPINION DOES NOT MEET THE REQUIREMENTS OF THESE PLANS.
5. SUBSTITUTIONS. NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITH REGARD TO SIZE, SPECIES, OR VARIETY WITHOUT WRITTEN PERMISSION OF THE MUNICIPALITY, LANDSCAPE ARCHITECT, OR OWNER. WRITTEN PROOF OF THE PLANT MATERIAL UNAVAILABILITY MUST BE DOCUMENTED BY THE CONTRACTOR.
6. GUARANTEE. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE (1) YEAR AFTER THE DATE OF FINAL ACCEPTANCE. ANY PLANT MATERIAL THAT DIES WITHIN THAT TIME PERIOD SHALL BE REMOVED, INCLUDING STUMP, AND REPLACED WITH A SIMILAR SIZE AND SPECIES AT THE EXPENSE OF THE DEVELOPER
7. PLANTING BEDS.
   A. PROVIDE PLANTING PITS AS INDICATED ON PLANTING DETAILS. BACKFILL PLANTING PITS WITH WELL DRAINING AND FERTILE SOILS. SOILS SHALL BE SANDY LOAM, FREE FROM DEBRIS, ROCKS, ETC. BACKFILL MIX TO BE ONE PART EACH OF TOPSOIL, MOISTENED PEAT MOSS, AND DECAYING WOOD FIBER.
   B. PLANTING BEDS SHALL RECEIVE FOUR (4) INCHES OF DOUBLE SHREDDED HARDWOOD MULCH AND TREATED WITH A PRE-EMERGENT HERBICIDE.
   C. SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS
   D. TERRASORB SHALL BE ADDED TO THE BACKFILL MIXTURE
8. PLANT LOCATIONS. THE LOCATION OF ALL PLANT MATERIAL INDICATED ON THE LANDSCAPE PLANS ARE APPROXIMATE. THE FINAL LOCATION OF ALL PLANT MATERIAL AND PLANTING BEDLINES SHALL BE DETERMINED IN THE FIELD AT THE TIME OF INSTALLATION FOLLOWING THE BASIC INTENT OF THE APPROVED PLANS, UNLESS THERE IS A SPECIFIC DIMENSION OR LOCATION SHOWN.
9. PLANT QUANTITIES. THE LANDSCAPE PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE IF ANY PLANT DISCREPANCIES OCCUR.
10. PLANT SIZE. THE CONTRACTOR SHALL FURNISH PLANT MATERIAL IN THE CALIPER, HEIGHT, SIZE OR SPREAD INDICATED IN THE PLANT SCHEDULE
11. PLANTING DATES. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICES. PLANTING SEASONS ARE DEFINED AS MARCH 15 THROUGH MAY 15 AND SEPT 15 THROUGH NOV 15. PLANTING IS ACCEPTABLE DURING THE WINTER MONTHS IF WEATHER PERMITS, THE GROUND IS NOT FROZEN, AND IN THE SUMMER SUPPLEMENTAL WATERING IS PROVIDED.
12. PLANTING METHODS.
   A. TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. PLANT MATERIAL SHALL BE PROPERLY GUYED, STAKED, WRAPPED, AND PLANTED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS. GUY WIRES SHALL BE ATTACHED TO THE TREE AT THE HEIGHT OF TWO-THIRDS THE HEIGHT OF THE TREE AND SHOULD BE LOCATED AT POINTS SO AS NOT TO SPLIT THE TRUNKS OF MULTI-STEMMED TREES. PROVIDE THREE TREE STAKES PER TREE UNLESS OTHERWISE NOTED.
   B. SET PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT AFTER SETTLEMENT A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANTS IN CENTER OF PIT
   C. NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT TIME OF INSTALLATION. REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT, GROWTH, AND SURVIVAL OF ALL PLANTS
   D. B&B P;LANTS SHALL BE HANDLED FROM THE BOTTOM OF THE ROOTBALL ONLY. PLANTS WITH BROKEN, SPLIT, OR DAMAGED ROOTBALLS SHALL BE REJECTED.
13. PRUNING.
   A. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL DEAD WOOD OR SUCKERS AND ALL BROKEN OR BADLY BRUISED BRANCHES SHALL BE REMOVED. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
   B. SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 8'-0" ABOVE GRADE. PLANT MATERIAL LOCATED WITHIN SIGHT TRIANGLE EASEMENTS SHALL NOT EXCEED A MATURE HEIGHT OF 30" ABOVE THE ELEVATION OF THE ADJACENT CURB. STREET TREES PLANTED IN SIGHT TRIANGLE EASEMENTS SHALL BE PRUNED TO NOT TO HAVE BRANCHES BELOW 8'-0".
14. LAWN AREAS.
   A. THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM OF 4" LAYER OF TOPSOIL IN LAWN AREAS WITH A PH LEVEL OF 6.0-6.5
   B. ALL DISTURBED LAWN AREAS SHALL BE STABILIZED WITH SOD AS INDICATED ON THE LANDSCAPE PLANS. SOD SHALL CONSIST OF A NEW JERSEY CERTIFIED MIXTURE. ALL DISTURBED LAWN AREAS SHALL BE TOPSOILED, LIMED, AND FERTILIZED & FINE GRADED PRIOR TO LAWN INSTALLATION.
15. EXISTING VEGETATION. EXISTING TREES AND SHRUBS TO BE PRESERVED ON SITE SHALL BE PROTECTED AGAINST CONSTRUCTION DAMAGE BY SNOW FENCING. FENCING SHALL BE PLACED OUTSIDE THE INDIVIDUAL TREE CANOPY. TREES TO REMAIN SHALL BE IDENTIFIED IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION, GRADING, OR CLEARING. EXISTING VEGETATION BEING PRESERVED AND LOCATED AT THE EDGE OF THE NEW TREELINE, SHALL BE PRUNED AND TRIMMED TO REMOVE ALL DEAD, DAMAGED, OR DISEASED BRANCHES
16. SITE CLEANUP. PLANTING DEBRIS (WIRE, TWINE, RUBBERHOSE, BACKFILL, ETC.) SHALL BE REMOVED FROM THE SITE AFTER PLANTING IS COMPLETE. THE PROPERTY IS TO BE LEFT IN A NEAT, ORDERLY CONDITION IN ACCORDANCE WITH ACCEPTED PLANTING PRACTICES
17. ALL PLANT MATERIAL IS SHOWN AT APPROXIMATELY 2/3 MATURITY TO INSURE THEY WILL NOT GROW BEYOND THE BOUNDARY CONSTRAINTS.

PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	SPREAD	ROOT	NOTES
		SHADE TREES						
* CBF	74	CARPINUS BETULUS 'FASTIGIATA'	PYRAMIDAL EUROPEAN HORNBEAM	14–16'	3" CAL.		B & B	SINGLE STRAIGHT LEADER/ UPRIGHT BRANCHING
		SHRUBS						
JS	192	JUNIPERUS CHINENSIS VAR. "SARGENTII"	SARGENT JUNIPER	18–24"			5 GAL.	TYPICAL SPECIES HABIT
MP	43	MYRICA PENSYLVANICA	BAYBERRY	24–30"			5 GAL.	TYPICAL SPECIES HABIT
PM	43	PRUNUS MARITIMA	BEACH PLUM	24–30"			5 GAL.	TYPICAL SPECIES HABIT
RR	84	ROSA 'RADRAZZ'	'RADRAZZ' KNOCKOUT ROSE	24–30"			5 GAL.	TYPICAL SPECIES HABIT
PV	47	PANICUM VIRGATUM 'CHEYENNE SKY'	RED SWITCH GRASS	18–24"			5 GAL.	TYPICAL SPECIES HABIT
PKR	50	PENNISETUM ORIENTALE 'KARLEY ROSE'	'KARLEY ROSE' FOUNTAIN GRASS	18–24"			5 GAL.	TYPICAL SPECIES HABIT
LM	171	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LILYTURF	15–18"			3 GAL.	TYPICAL SPECIES HABIT
LB	119	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'	'LITTLE BUNNY' FOUNTAIN GRASS	15–18"			3 GAL.	TYPICAL SPECIES HABIT
VA	69	VACCINIUM ANGUSTIFOLIUM	LOWBUSH BLUEBERRY	15–18"			3 GAL.	TYPICAL SPECIES HABIT

* PLANT MATERIAL RECOMMENDED TO BE INSTALLED IN SPRING DUE TO FALL DIGGING HAZARD.

STREETSCAPE PLANS SS–10

REV.	DATE	DRAWN BY	DESCRIPTION
4	7/3/12	DMS	ADD NEW TREE GRATE DETAIL
3	6/28/12	DMS	ADDED DETAIL 6/63
2	6/27/12	DMS	REVISED BENCH DETAIL
1	6/07/12	DMS	REVISED PER N.J.D.O.T. JUNE 5, 2012 COMMENTS

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JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

CONSTRUCTION DETAILS
FOR
SEA ISLE CITY

CITY OF SEA ISLE — CAPE MAY COUNTY — NEW JERSEY

JOB NUMBER	DATE
SIC069	FEBRUARY 2012
SCALE: AS NOTED	LATEST REVISION
INDEX NUMBER: RB016642	DESIGN BY: GED
SHEET NUMBER: 63 of 66	

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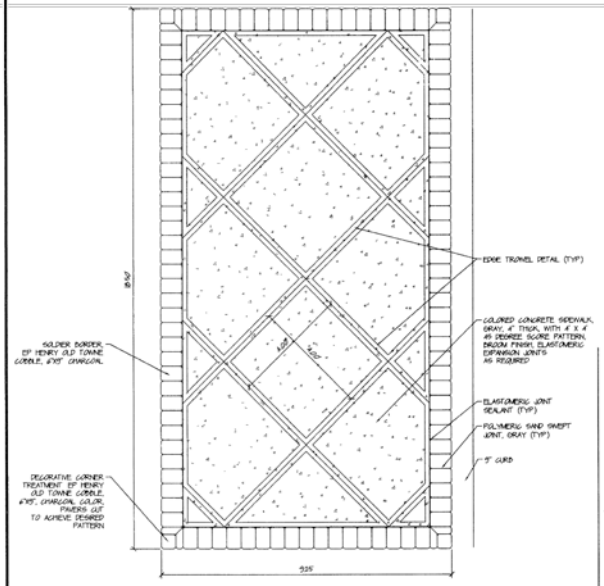
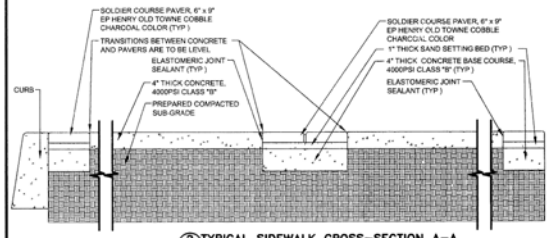
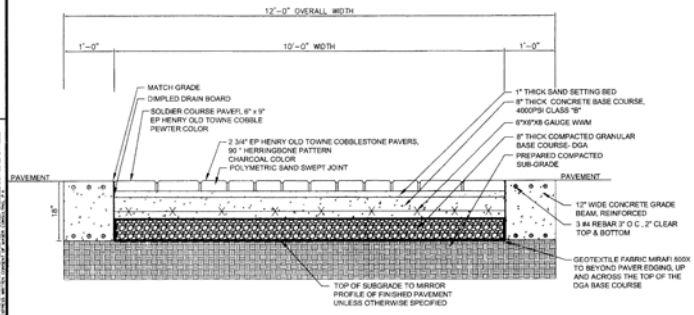
STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



1/64 SIDEWALK DETAIL FOR NORTHERN SIDE OF JFK BLVD
SCALE 1/2"=1'-0"

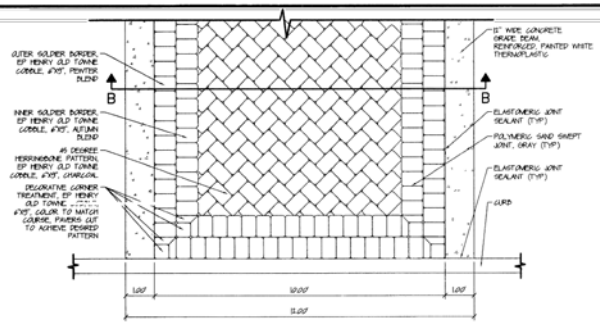


2/64 TYPICAL SIDEWALK CROSS-SECTION A-A
NOT TO SCALE

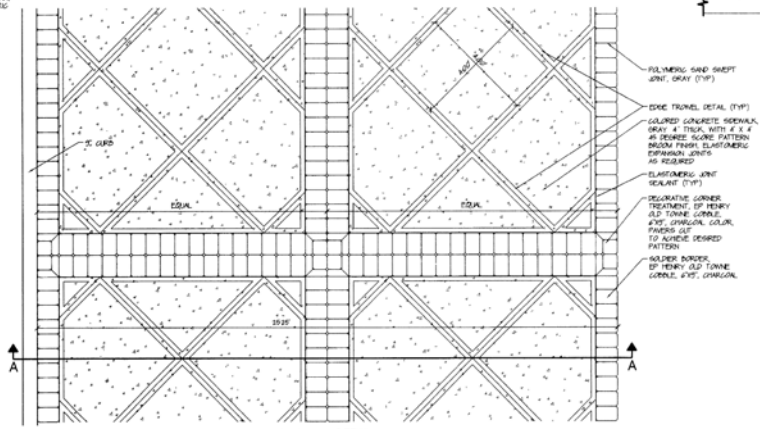


3/64 TYPICAL CROSSWALK CROSS-SECTION B-B
NOT TO SCALE

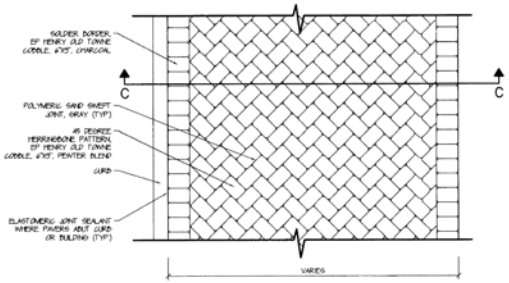
NOTES:
1 CONCRETE TO BE NJDOT CLASS "B" (AIR ENTRAINED)
2 TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 10'-0" APART AND SHALL BE FILLED WITH PREFORMED BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF AASHTO M-213, RECESSED 1/4" FROM THE FRONT FACE AND TOP OF THE CURB
3 DUMMY JOINTS (FORMED) SHALL BE INSTALLED HALWAY BETWEEN EXPANSION JOINTS



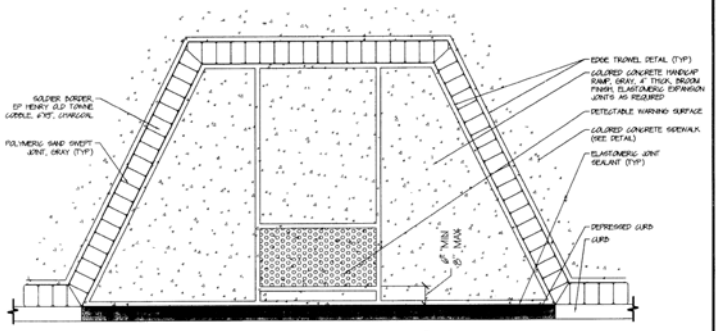
4/64 CROSSWALK DETAIL
SCALE 1/2"=1'-0"



5/64 SIDEWALK DETAIL FOR SOUTHERN SIDE OF JFK BLVD
SCALE 1/2"=1'-0"

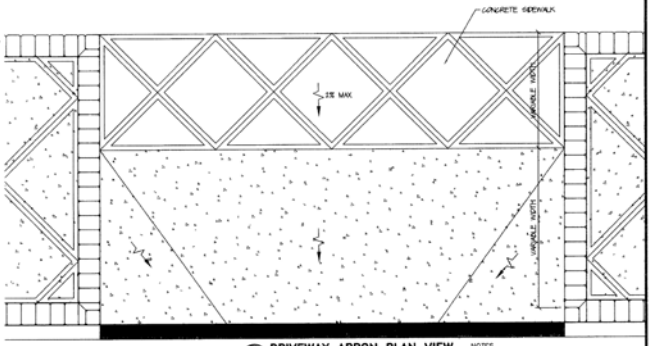


8/64 PAVER SIDEWALK DETAIL FOR NORTHEAST AND SOUTHEAST CORNERS OF JFK BLVD AND LANDIS AVENUE
SCALE 1/2"=1'-0"



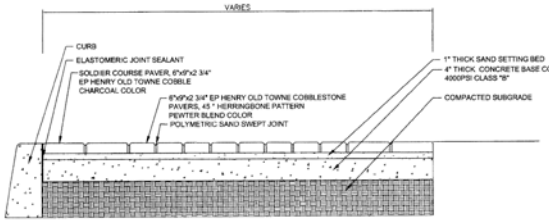
6/64 CONCRETE HANDICAP RAMP DETAIL
SCALE 1/2"=1'-0"

NOTES:
1 ALL HANDICAP RAMP SLOPES AND REQUIREMENTS SHALL COMPLY WITH CURRENT ADA STANDARDS

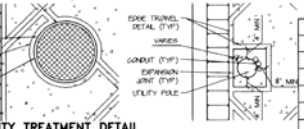


7/64 DRIVEWAY APRON PLAN VIEW
SCALE 1/2"=1'-0"

NOTES:
1 REFER TO GRADING PLANS FOR SPECIFIC DIMENSION AND GRADING



9/64 TYPICAL PAVER SIDEWALK CROSS-SECTION C-C FOR NORTHEAST AND SOUTHEAST CORNERS OF JFK BLVD AND LANDIS AVENUE
NOT TO SCALE



10/64 TYPICAL UITILITY TREATMENT DETAIL
SCALE 1/2"=1'-0"

NOTES:
1 UTILITY POLES, AND UTILITY COVERS AND FRAMES SHALL BE EDGED WITH A TROWEL AND THE SIDEWALK PATTERN SHALL BE CONTINUED
2 TREATMENT TO BE UTILIZED ON ALL UTILITIES (ROUND, RECTANGULAR, ETC)
3 UTILITY POLES SHALL BE "BANDED" IN WITH A SEPARATE CONCRETE SLAB TO ALLOW FOR REMOVAL OF UTILITY POLE WITHOUT DAMAGE TO ADJACENT SIDEWALK

REV	DATE	DRAWN BY	DESCRIPTION
1	6/07/12	DMS	REVISED PER N.J.D.O.T. JUNE 5, 2012 COMMENTS

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JOHN F KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

CONSTRUCTION DETAILS
FOR
SEA ISLE CITY

CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER: SIC069	DATE: FEBRUARY 2012
SCALE: AS NOTED	LATEST REVISION:
INDEX NUMBER: R8016642	DESIGN BY: GED
SHEET NUMBER: 64 of 66	

STREETSCAPE PLANS SS-11

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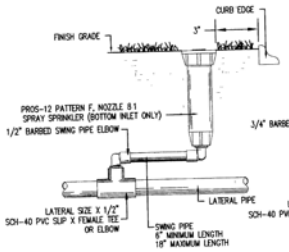
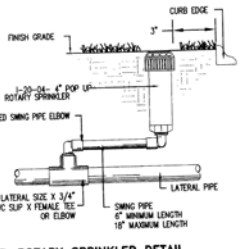
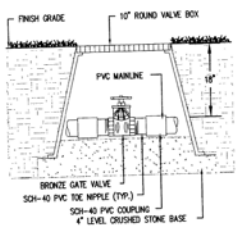
STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)



1/65 SPRAY SPRINKLER DETAIL
NOT TO SCALE



2/65 ROTARY SPRINKLER DETAIL
NOT TO SCALE



3/65 ISOLATION GATE VALVE DETAIL
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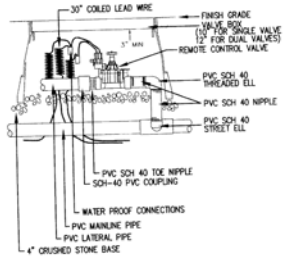
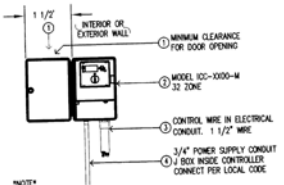
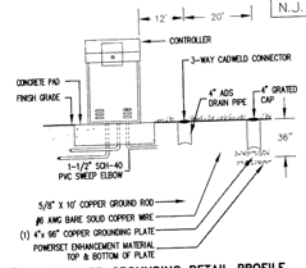


4/65 24 VOLT ELECTRIC VALVE DETAIL
NOT TO SCALE

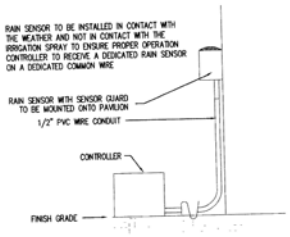


NOTE
SPECIFY 8 STATION MODEL CONTROLLER.
MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 or 220 VAC SOURCE AS PROVIDED BY CONTRACTOR.

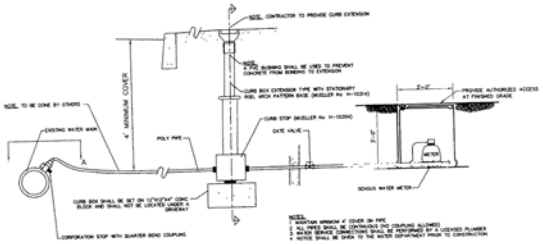
5/65 HUNTER 8 ZONE CONTROLLER
NOT TO SCALE
NOTES:
1 CONTROLLER IS TO BE SUPPLIED BY HUNTER INDUSTRIES OR APPROVED EQUAL
2 MODEL NUMBER ICC 8 ZONE CAPACITY



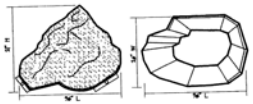
6/65 CONTROLLER GROUNDING DETAIL PROFILE
NOT TO SCALE



7/65 RAIN SENSOR MOUNTING DETAIL
NOT TO SCALE

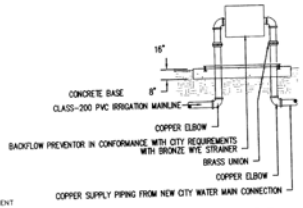


8/65 WATER SERVICE CONNECTION AND WATER METER CHAMBER
NOT TO SCALE

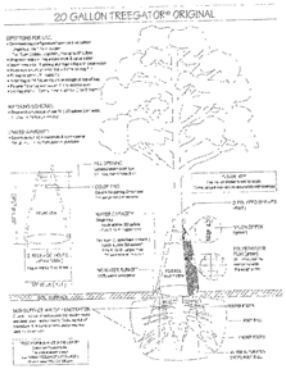


NOTES:
1 INSTALL PRODUCT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
2 PRODUCT TO BE MANUFACTURERS FIELDSTONE GRAY
3 ACTUAL MOCK ROCK SIZE TO BE DETERMINED AFTER IRRIGATION EQUIPMENT IS IN PLACE
4 MOCK ROCK TO BE USED TO COVER MECHANICAL COMPONENTS FOR IRRIGATION BACK FLOW COMPONENT

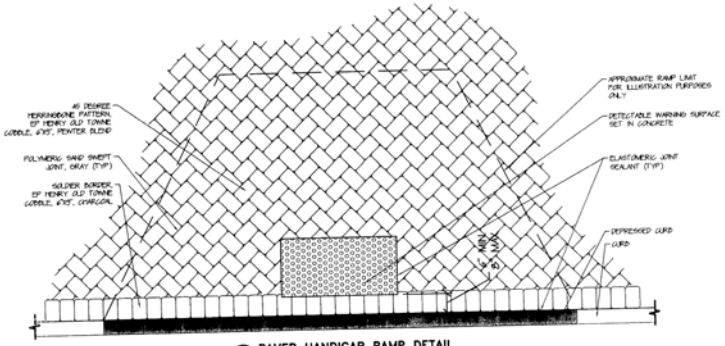
9/65 MOCK ROCK DETAIL
NOT TO SCALE



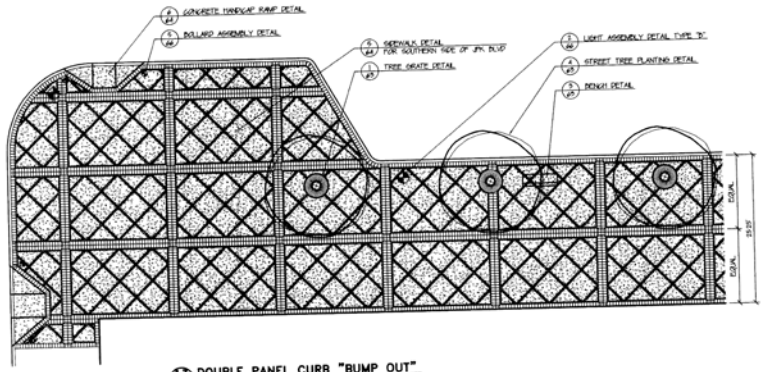
10/65 BACKFLOW PREVENTER DETAIL
NOT TO SCALE



11/65 TREE WATERING SYSTEM DETAIL
NOT TO SCALE
NOTES:
1 ENSURE THAT SEAL TAPE IS REMOVED FROM THE HOLES IN THE BASE OF THE WATER BAG SO THAT WATER CAN WEEP THROUGH HOLES

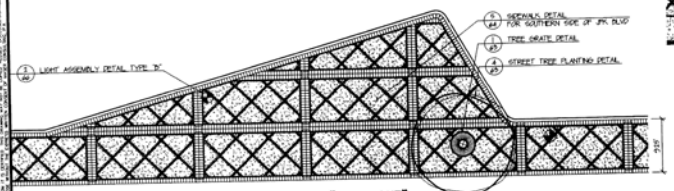


12/65 PAVER HANDICAP RAMP DETAIL
SCALE: 1/2"=1'-0"
NOTES:
1 ALL HANDICAP RAMP SLOPES AND REQUIREMENTS SHALL COMPLY WITH CURRENT ADA STANDARDS
2 PAVER HANDICAP RAMP TO BE USED AT NORTHEAST AND SOUTHEAST CORNERS OF JFK BLVD. AND LANDIS AVENUE ONLY TO MATCH THE EXCURSION PARK PROJECT

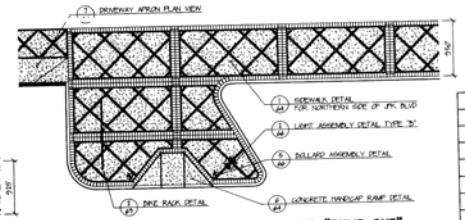


13/65 DOUBLE PANEL CURB "BUMP OUT" FOR SOUTHERN SIDE OF JFK BLVD
SCALE: 1"=10'
NOTES:
1 DOUBLE PANEL CURB "BUMP OUT" TO BE UTILIZED ON ALL SIMILAR AREAS OF THE SOUTHERN SIDE OF JFK BOULEVARD

STREETSCAPE PLANS SS-12



14/65 SINGLE PANEL CURB "BUMP OUT" FOR SOUTHERN SIDE OF JFK BLVD
SCALE: 1"=10'
NOTES:
1 SINGLE PANEL CURB "BUMP OUT" TO BE UTILIZED ON ALL SIMILAR AREAS OF THE SOUTHERN SIDE OF JFK BOULEVARD



15/65 TYPICAL SINGLE PANEL CURB "BUMP OUT" FOR NORTHERN SIDE OF JFK BLVD
SCALE: 1"=10'
NOTES:
1. CURB "BUMP OUT" TO BE UTILIZED ON ALL SIMILAR AREAS OF THE NORTHERN SIDE OF JFK BOULEVARD

REV	DATE	DRAWN BY	DESCRIPTION
1	6/07/12	DMS	REVISED PER NJDOT JUNE 5, 2012 COMMENTS

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JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

CONSTRUCTION DETAILS
FOR
SEA ISLE CITY

CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER	DATE
3C069	FEBRUARY 2012
SCALE: AS NOTED	LATEST REVISION
INDEX NUMBER: R8015642	DESIGN BY: GED
SHEET NUMBER: 65 of 66	

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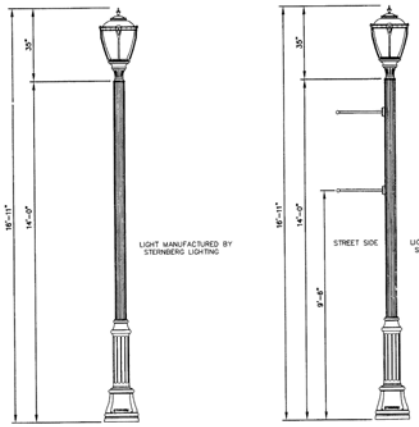
STATE	FEDERAL PROJECT NO.
N.J.	STP-0115(105)

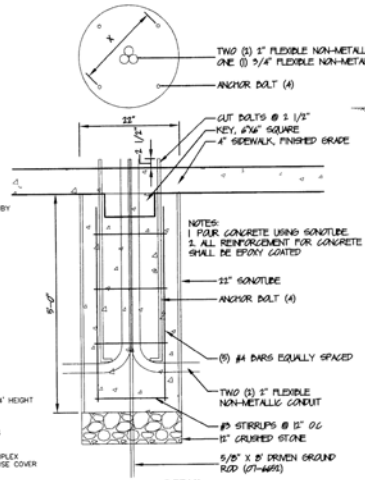


POLE- STERNBERG MODEL BIRMINGHAM 7700FP5, 14' HEIGHT
LIGHT FIXTURE- STERNBERG RIPON 1130A LED
94 WATT LED, 4500K
TYPE V DISTRIBUTION
FINISH- STANDARD BLACK
OPTIONS- GFI RECEPTACLE-GFI 20-IUC 20AMP DUPLEX RECEPTACLE WITH IN USE COVER

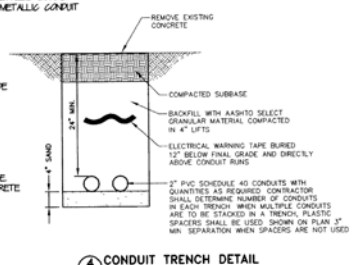
POLE- STERNBERG MODEL BIRMINGHAM 7700FP5, 14' HEIGHT
LIGHT FIXTURE- STERNBERG RIPON 1130A LED
94 WATT LED, 4500K
TYPE V DISTRIBUTION
BANNER ARM- MODEL DBA (DOUBLE BANNER ARMS MOUNTED ON STREET SIDE)
FINISH- STANDARD BLACK
OPTIONS- GFI RECEPTACLE-GFI 20-IUC 20AMP DUPLEX RECEPTACLE WITH IN USE COVER

1/66 LIGHT ASSEMBLY DETAIL, TYPE "A"
NTS

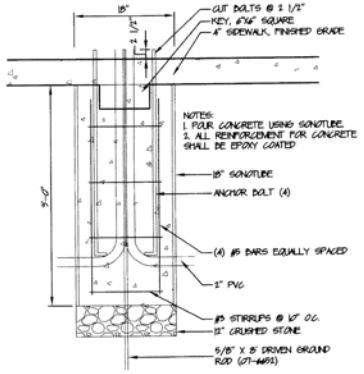
2/66 LIGHT ASSEMBLY DETAIL, TYPE "B"
NTS



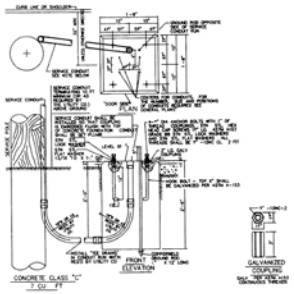
3/66 LIGHT BASE DETAIL- STREET & SIDEWALK POLES
NTS



4/66 CONDUIT TRENCH DETAIL
NTS

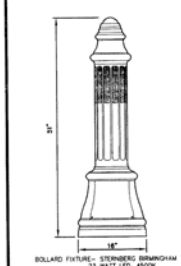


7/66 BOLLARD FOUNDATION DETAIL
NTS



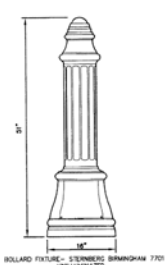
METER CABINET FOUNDATION
TYPE "MCF"

10/66 FOUNDATION, TYPE MCF DETAIL
NTS



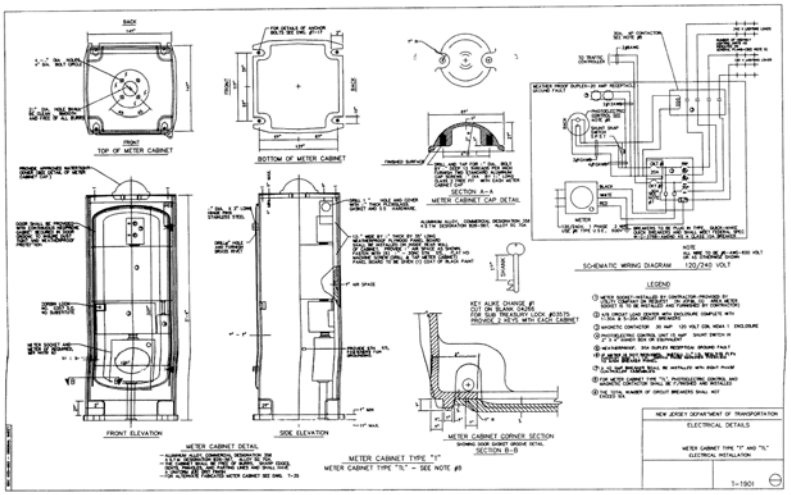
BOLLARD FIXTURE- STERNBERG BIRMINGHAM 7701 LED
23 WATT LED, 4500K
TYPE V DISTRIBUTION
FINISH- STANDARD BLACK

5/66 BOLLARD ASSEMBLY DETAIL TWO AT EACH HANDICAP RAMP
NTS

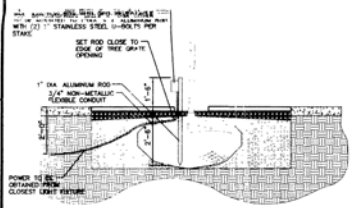


BOLLARD FIXTURE- STERNBERG BIRMINGHAM 7701
UNILLUMINATED
FINISH- STANDARD BLACK

6/66 UNLIT PROTECTION BOLLARD ASSEMBLY DETAIL
NTS

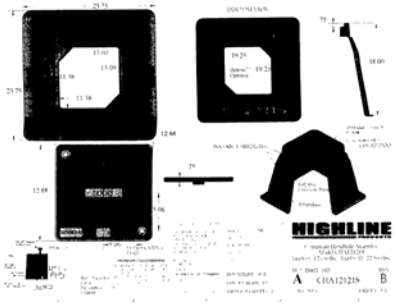


9/66 METER CABINET DETAIL
NTS



8/66 TREE GRATE ELECTRICAL OUTLET DETAIL
NTS

NOTES:
1. A JUNCTION BOX SHALL BE INSTALLED AT EVERY TREE GRATE LOCATION



11/66 JUNCTION BOX DETAIL
NTS

ELECTRICAL SPECIFICATIONS LIGHTING:

DEFINITION: UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE ELECTRICAL CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR IN THESE SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL".

EXAMINATION OF PREMISES: BEFORE SUBMITTING A BID, CONTRACTOR SHALL VISIT THE SITE AND
EXAMINE ALL CONDITIONS ON WHICH HIS WORK IS IN ANY WAY DEPENDENT FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF SPECIFICATIONS AND DRAWINGS. HE SHALL REPORT TO THE ENGINEER ANY CONDITION WHICH MIGHT PREVENT HIM FROM INSTALLING HIS
EQUIPMENT IN THE MANNER INTENDED.

CODES AND STANDARDS: ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE
LATEST EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY THE UNIFORM CONSTRUCTION CODE (UCC) OF THE STATE OF NEW JERSEY AND ANY OTHER GOVERNING PARTIES HAVING JURISDICTION. ADDITIONAL REQUIREMENTS MAY BECOME NECESSARY AS A RESULT OF THE LOCAL UTILITY COMPANIES AND THE OWNER'S FIRE INSURANCE CARRIER.

FEES AND PERMITS: THE ELECTRICAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS, CERTIFICATES, INSPECTION FEES, AND INSTALLATION FEES AS REQUIRED.

PROTECTION OF PERSONS AND PROPERTY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH HIS WORK.

ELECTRICAL IDENTIFICATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL ELECTRICAL JUNCTION BOXES, EQUIPMENT, PANELS, ETC WITH THE PANEL OR FEEDER NAME AND
CIRCUIT NUMBER. THIS IDENTIFICATION SHALL CONSIST OF A PERMANENT BLACK MARKER LEGIBLY
MARKED OF JUNCTION BOXES OR AN ENGRAVED PLASTIC NAME PLATE ON EQUIPMENT

SCOPE OF WORK: CONSISTS OF PROVIDING COMPLETE ELECTRICAL SYSTEMS AS SHOWN DRAWINGS
AND SPECIFIED HEREIN. CONTRACTOR SHALL PROVIDE ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT, MACHINERY, PRELIMINARY AND FINAL TESTING FOR APPROVALS INCLUDING ALL OTHER
ITEMS NECESSARY TO COMPLETE THE SYSTEMS

SHOP DRAWINGS: THE CONTRACTOR SHALL FURNISH TO THE ENGINEER COMPLETE SHOP DRAWINGS,
CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA, FOR ALL MAJOR ELEMENTS OF THE ELECTRICAL WORK FOR REVIEW AND APPROVAL.

MATERIALS: ALL MATERIALS FURNISHED BY THIS CONTRACTOR, SHALL BE NEW AND BEAR THE LABEL OR LISTING OF UNDERWRITER'S LABORATORIES, INC. (UL).

DELIVERY: THE ELECTRICAL CONTRACTOR SHALL DELIVER A FULLY OPERATIONAL LIGHTING SYSTEM IN ACCORDANCE WITH THE PROPOSED LIGHTING PLANS.

WIRING: ALL CONDUCTORS SHALL BE OF STRANDED COPPER AND SHALL CONFORM TO THE STANDARDS OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS AND THE NATIONAL BOARD OF FIRE UNDERWRITERS. ALL MATERIALS SHALL CONFORM TO SECTION 918 OF THE NJDOT STANDARD SPECIFICATIONS

EXISTING SERVICES: EXISTING SERVICES TO AREAS NOT UNDER THIS CONTRACT SHALL BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE, AND NO INTERRUPTIONS SHALL BE CAUSED, DAY OR NIGHT WITHOUT THE OWNER'S CONSENT. CONTRACTOR SHALL NOTE THAT OPERATIONS MUST
CONTINUE DURING THE LIFE OF THIS CONTRACT AND ALL NECESSARY TEMPORARY CONNECTIONS
REQUIRED TO ALLOW SUCH OPERATION SHALL BE INCLUDED. ANY NECESSARY DISCONNECTION OF ELECTRICAL EQUIPMENT SHALL BE SCHEDULED WITH THE OWNER'S APPROVAL IN WRITING.

NEW PANELS: PANEL RATINGS, MAINS AND BRANCH CIRCUIT BREAKERS SHALL BE AS INDICATED ON THE SINGLE-LINE DIAGRAM AND PANEL SCHEDULES TO BE SUPPLIED BY THE ELECTRICAL CONTRACTOR.

CUTTING AND PATCHING: THIS CONTRACTOR SHALL DO ALL REQUIRED CUTTING, BORING AND PATCHING FOR HIS WORK. ALL OPENINGS SHALL BE SEALED UPON COMPLETION OF INSTALLATION
TO PREVENT SPREAD OF FIRE, SMOKE OR WATER.

GROUNDING: SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250.

DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS: UPON COMPLETION OF THE WORK THIS CONTRACTOR SHALL OBTAIN A CERTIFICATE OF APPROVAL FROM ALL RECOGNIZED AGENCIES CONCERNED WITH THE WORK. CONTRACTOR SHALL NOTIFY AND MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE INSPECTING AGENCY AND LOCAL AUTHORITIES SO THAT INSPECTION MAY BE CARRIED OUT AT THE PROPER STAGE.

AS-BUILT DRAWINGS: CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL DEVIATIONS IN WORK AS ACTUALLY INSTALLED FROM WORK INDICATED ON DRAWINGS. UPON COMPLETION OF THE PROJECT, TWO (2) COMPLETE SETS OF MARKED-UP PRINTS SHALL BE DELIVERED TO THE OWNER'S
REPRESENTATIVE AND TWO (2) SETS TO THE ENGINEER.

GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL MAKE GOOD AT NO EXPENSE TO THE OWNER, ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP, AND SHALL RESTORE ANY DISTURBED ADJACENT WORK TO ITS ORIGINAL CONDITION IN THE PERFORMANCE OF THE GUARANTEE.

SAWCUTTING OF CONCRETE FLOORS: ALL REQUIRED CUTTING OF CONCRETE SHALL BE DONE IN A METHOD TO MINIMIZE THE CUTTING OF REINFORCEMENT BARS OR MATS. UPON INSTALLATION OF CONDUITS, BOXES, ETC., THE CAVITY SHALL BE SEALED WITH A "NON-SHRINKING" FORM OF GROUTING MATERIAL OR EQUAL. THE GROUTING MATERIAL SHALL BE RATED EQUAL OR GREATER THAN THE EXISTING PSI OF THE SURROUNDING CONCRETE.

CONDUCTORS AND CABLES: ALL CONDUCTORS AND CABLES SHALL BE PLENUM RATED OR RUN IN CONDUIT TO CONFORM WITH NATIONAL ELECTRICAL CODE, ARTICLE 300-22

ELECTRICAL OUTLET BOXES: THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ARTICLE 314.16.B.1 OF THE LATEST RECOGNIZED EDITION OF THE "BOCA" NATIONAL BUILDING CODE REGARDING "ELECTRICAL OUTLET BOXES".

STREETSCAPE PLANS SS-13

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL NO.	LAMPS TYPE	LAMPS WATTS	REMARKS
LIGHT POLES						
A	STREET LIGHT TYPE 'A', COMPLETE, LIGHTING STANDARD, LUMINAIRE AND FOUNDATION	STERNBERG	BIRMINGHAM 7700FP5, 14' TALL RIPON 1130A	LED	94	POLYCARBONATE ACORN LENS
B	STREET LIGHT TYPE 'B', COMPLETE, LIGHTING STANDARD, BANNER ARMS LUMINAIRE AND FOUNDATION	STERNBERG	BIRMINGHAM 7700FP5, 14' TALL RIPON 1130A	LED	94	POLYCARBONATE ACORN LENS
BOLLARDS						
C	BOLLARD LIGHT, COMPLETE WITH FOUNDATION	STERNBERG	BIRMINGHAM 7701	LED	23	WHITE ACRYLIC LENS

REV.	DATE	DRAWN BY	DESCRIPTION
1	6/07/12	DMS	REVISED PER NJDOT JUNE 5, 2012 COMMENTS

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NEW JERSEY LIC. NO. 24GE03866300

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JOHN F. KENNEDY/VETERAN'S BOULEVARD STREETSCAPE IMPROVEMENTS

CONSTRUCTION DETAILS
FOR
SEA ISLE CITY

CITY OF SEA ISLE CAPE MAY COUNTY NEW JERSEY

JOB NUMBER	DATE
SIC069	FEBRUARY 2012
SCALE: AS NOTED	LATEST REVISION
INDEX NUMBER: R8016642	DESIGN BY: GED
SHEET NUMBER: 66 of 66	

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