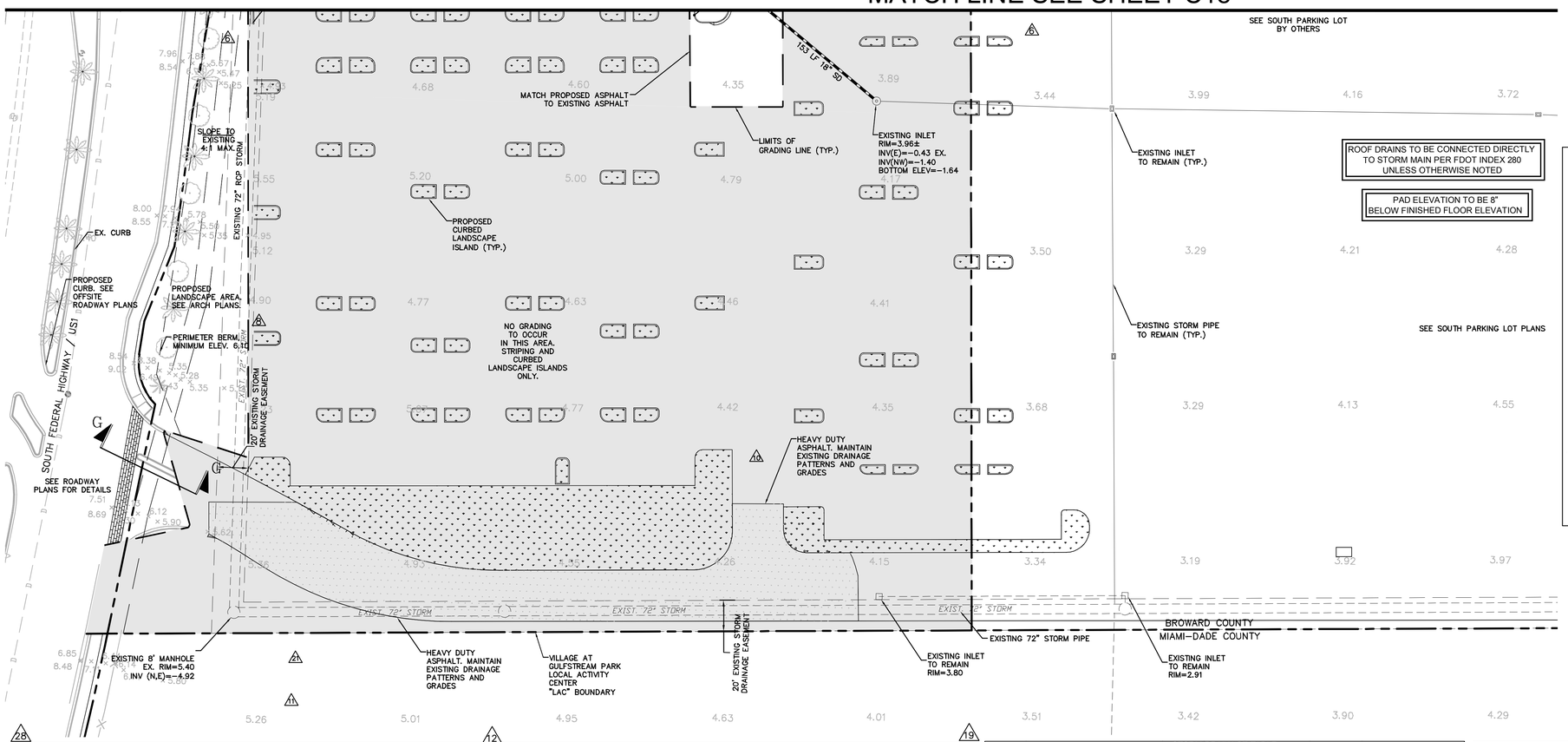
MATCH LINE SEE SHEET C18



NORTH

0 40 80

SCALE AS SHOWN

LEGEND

- EXISTING STORM PIPE
- EXISTING STORM INLETS
- HEAVY DUTY ASPHALT
- HEAVY DUTY CONCRETE
- NO GRADING TO OCCUR IN THIS AREA (WITHIN LAC BOUNDARY)
- PROPOSED ASPHALT AT EXISTING ELEVATION
- PROPOSED ASPHALT AT PROPOSED ELEVATION
- PROPOSED LANDSCAPE AREA
- EXISTING STORM PIPE TO BE REMOVED PER STORM CROSSING DETAIL SHEET D1
- FDOT TYPE D CURB
- FDOT TYPE F CURB
- MODIFIED TYPE F CURB
- 3' TRANSITION FROM FDOT TYPE F CURB TO MODIFIED TYPE F CURB
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE
- PROPOSED STORM PIPE
- RD ROOF DRAIN
- 9.15 EXISTING GRADE, NOT VERIFIED (CONTRACTOR TO FIELD VERIFY AND NOTIFY ENGINEER OF VARIATIONS)
- 9.15 PROPOSED GRADE

NOTES:

1. ALL SPOT ELEVATIONS ARE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
2. DRAINAGE SYSTEM WILL CONSIST OF EXFILTRATION TRENCH AND DRAINAGE WELLS.
3. SEE TYPICAL PAVEMENT SECTIONS SHEET C36.
4. IF VIBRA-REPLACEMENT (STONE COLUMNS) OR OTHER TREATMENT METHOD ARE TO BE USED THEN DEMUCKING UNDER BUILDINGS IS NOT REQUIRED. DEMUCKING IS NECESSARY UNDER PROPOSED STORM AND SANITARY LINES (SEE SHEETS C14-C19). SEE GEOTECHNICAL RECOMMENDATIONS.
5. REMOVE EXISTING STORM UNDER PROPOSED BUILDINGS AND IN SECTIONS OF PROPOSED DRAINAGE CONFLICT (SEE DETAIL, SHEET D1).
6. EXISTING OR PROPOSED ASPHALT OUTSIDE THE LIMITS OF GRADING TO REMAIN AT EXISTING ELEVATIONS.
7. HEAVY DUTY ASPHALT TO BE INSTALLED IN PROPOSED ROADWAY NETWORK. REGULAR DUTY ASPHALT TO BE INSTALLED IN ALL PROPOSED PARKING AREAS WITHIN GRADING LIMITS.
8. INSTALL POLLUTION RETARDANT BAFFLES AND CONTROL WEIRS AS DIRECTED IN THE STRUCTURE TABLE ON SHEET C19
9. SEE GEOTECHNICAL REPORT FOR REQUIREMENTS FOR BUILDING PAD PREPARATION (SEE NOTE THIS SHEET).
10. STRUCTURES WITH POLLUTION RETARDANT BAFFLES TO HAVE 24" SUMP. STRUCTURES WITHOUT POLLUTION RETARDANT BAFFLES, OR CONTROL WEIRS ONLY, TO HAVE 12" SUMP.
11. SEE SHEETS C39 & C39A FOR SECTIONS.

STORM DRAINAGE TABLE

STR. #	TYPE	FDOT INDEX	RIM ELEV.	INV. ELEV	PIPE SIZE	BAFFLE/WEIR
S-1	NOT USED					
S-2	STORM MANHOLE W/J BOTTOM	200	7.00	-2.0 (E,SW,S)	36" (E), 42"(SW), 48"(S)	
S-3	STORM MANHOLE W/J BOTTOM	200	7.00	-1.57(N,S)	48"(N,S)	
S-4	STORM MANHOLE W/J BOTTOM	200	7.00	-1.21(N,W,S)	48"(N,W) 12"(S)	
S-5	NOT USED					
S-6	NOT USED					
S-7	TYPE 9 INLET W/J BOTTOM	200/214	6.82	2.10(NW)	18"(NW)	
S-8	TYPE C INLET	200/214	6.55	2.00(N,NW,SE)	18"(NW,SE) 24"(N)	24" OPEN BOTTOM (N)
S-9	TYPE C INLET W/J BOTTOM W/ HALF ROUND WEIR CREST EL.4.0 ON (E) PIPE	200/214	6.95	2.00(S) 1.00(E)	24"(S,E)	24" CLOSED BOTTOM (E) 24" OPEN BOTTOM (S)
S-10	STORM MANHOLE W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (N) PIPE	200	7.45	2.00(N) 2.00(S) 0.25(W) 0.00(E)	18"(N) 24"(S) 42"(W) 48"(E)	24" CLOSED BOTTOM (N)
S-11	STORM MANHOLE W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (NW) PIPE	200	6.71	2.00(NW) 0.33(S,E)	18"(NW) 42"(S,E)	24" CLOSED BOTTOM (NW)
S-12	TYPE C INLET W/J BOTTOM W/0.87" x 2.5' RECT. WEIR EL. 4.0 ON (W) PIPE	200/214	6.00	2.00(S,W)	24"(S,W)	0.87" x 2.5' RECT. CLOSED BOTTOM (W) 30" OPEN BOTTOM (S)
S-13	STORM MANHOLE W/J BOTTOM W/HALF ROUND WEIR CREST EL. 5.0 ON (E) PIPE	200	9.70	2.00(W) 2.00(E,S)	24"(W) 24"(E,S)	36" OPEN BOTTOM (S) 36" CLOSED BOTTOM (E)
S-14	STORM MANHOLE W/J BOTTOM	200	6.16	2.00(E) 0.39(N,S)	24"(E) 42"(N,S)	
S-15	TYPE C INLET	200/232	7.60	2.00(N,E)	24"(N,E)	24" OPEN BOTTOM (N)
S-16	STORM MANHOLE W/J BOTTOM	200	6.81	1.50(N,S) 0.43(E,W)	24"(N,S) 48"(E,W)	
S-17	STORM MANHOLE W/J BOTTOM	200	5.85	1.50(W) 0.63(N,S) 0.20(E)	24"(W) 42"(N,S) 48"(E)	
S-18	STORM MANHOLE W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (SW) PIPE	200	7.27	2.00(SW) 0.50(N,S)	18"(SW) 42"(N,S)	24" CLOSED BOTTOM (SW)
S-19	TYPE 9 INLET	200/214	5.50	2.00(S)	18"(S)	24" OPEN BOTTOM (S)
S-20	TYPE 9 INLET W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (S) PIPE	200/214	6.55	2.50(NW) 2.00(E) 1.50(S) 3.00 (SE)	10"(NW) 18"(E) 24"(S) 10"(SE)	24" OPEN BOTTOM (E) 30" CLOSED BOTTOM (S)
S-21	TYPE 9 INLET	200/214	6.77	2.00(W) 3.50 (E)	18"(W) 10" (E)	24" OPEN BOTTOM (W)
S-22	STORM MANHOLE W/J BOTTOM	200	7.56	1.20(N,S) 0.60(W) 3.50 (E)	36"(N,S) 48"(W) 12" (E)	
S-23	TYPE 9 INLET W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (S) PIPE	200/214	6.90	4.00(E) 2.00(N) 1.50(S) 3.00 (SE)	10"(E) 30"(N) 36"(S) 10"(SE)	36" OPEN BOTTOM (N) 42" CLOSED BOTTOM (S)
S-24	TYPE 9 INLET W/J BOTTOM	200/214	6.90	2.00(NE,S)	30"(NE,S)	42" OPEN BOTTOM (S)
S-25	TYPE 9 INLET	200/214	6.90	2.00(NE,SW)	30"(NE,SW)	
S-26	TYPE 9 INLET	200/214	6.90	2.05(NE,SW) 4.00(W)	30"(NE,SW) 10"(W)	
S-27	STORM MANHOLE W/J BOTTOM	200	7.46	2.30(NW) 2.15(SW) 1.65(NE)	24"(NW) 30"(SW) 36"(NE)	
S-28	TYPE 9 INLET	200/214	8.43	2.50(W)	18"(W)	

STORM DRAINAGE TABLE

S-29	STORM MANHOLE W/J BOTTOM	200	8.21	2.25(SW) 2.00(W) 2.00(N)	18"(SW) 18"(W) 24"(N)	36" OPEN BOTTOM (N) 24" OPEN BOTTOM (W)
S-30	TYPE 9 INLET W/J BOTTOM W/HALF ROUND WEIR CREST EL. 5.0 ON (E) PIPE	200	7.70	2.00(E,S)	24"(E,S)	36" OPEN BOTTOM (S) 36" CLOSED BOTTOM (E)
S-31	TYPE 9 INLET	200/214	7.52	2.00(E,NW)	4"(NW) 18"(E)	24" OPEN BOTTOM (E)
S-32	TYPE 9 INLET	200/214	5.50	2.00(W)	18"(W)	
S-33	TYPE 9 INLET	200/214	5.59	2.00(S,E,W)	18"(S,E,W)	24" OPEN BOTTOM (S)
S-34	TYPE 9 INLET	200/214	7.05	2.85(E,W)	10"(E) 18"(W)	
S-35	TYPE 9 INLET W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (N) PIPE	200/214	6.75	2.50(E) 2.00(N,S)	18"(E) 24"(N,S)	30" OPEN BOTTOM (S) 30" CLOSED BOTTOM (N)
S-36	TYPE 9 INLET	200/214	7.05	3.35(W)	18"(W)	
S-37	TYPE 9 INLET	200/214	6.70	2.50(E) 2.00(N)	18"(E) 24"(N)	30" OPEN BOTTOM (N)
S-38	TYPE 6 INLET	200/211	6.05	2.00(N)	18"(N)	24" OPEN BOTTOM (N)
S-39	TYPE 6 INLET W/J BOTTOM	200/211	6.09	2.00(S,SE)	18"(S,SE)	24" OPEN BOTTOM (S)
S-42	TYPE C INLET	200/232	6.17	2.00(NE)	18"(NE)	24" OPEN BOTTOM (NE)
S-43	TYPE 9 INLET	200/214	6.84	2.75(NE) 3.50(SE)	18"(NE) 10"(SE)	
S-44	TYPE 9 INLET	200/214	7.04	2.68(SW) 2.35(NE,SE) 3.50(NW)	18"(SW) 24"(NW,SE) 10" RD	
S-45	TYPE 9 INLET	200/214	6.84	3.35(NE)	18"(NE)	
S-46	TYPE 9 INLET	200/214	7.04	3.25(SW) 2.75(SE)	18"(SW) 24"(SE)	
S-52	TYPE 9 INLET	200/214	6.96	1.55(NW) 0.00(SE)	36"(NW,SE)	
S-53	STORM MANHOLE W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (SE) PIPE	200	7.34	2.65(SW) 2.15(NW) 1.65(SE)	24"(SW) 30"(NW) 36"(SE)	42" CLOSED BOTTOM (SE)
S-54	TYPE 9 INLET	200/214	6.90	2.05(SE,NW)	30"(SE,NW)	
S-55	TYPE 9 INLET	200/214	6.90	2.00(SE,NW)	30"(SE,NW)	
S-56	TYPE 9 INLET W/J BOTTOM	200/214	6.90	2.00(SE,N)	30"(SE,N)	42" OPEN BOTTOM (N)
S-57	TYPE 9 INLET W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (N) PIPE	200/214	6.90	2.00(S) 1.50(N)	30"(S) 36"(N)	42" OPEN BOTTOM (S) 36" CLOSED BOTTOM (N)
S-58	STORM MANHOLE W/J BOTTOM	200	6.10	0.22(N,S)	42"(N,S)	
S-59	TYPE 9 INLET	200/214	6.77	2.00(W)	18"(W)	24" OPEN BOTTOM (W)
S-60	TYPE 9 INLET W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (N) PIPE	200/214	6.55	2.00(E,SE) 1.50(N)	12"(SE) 18"(E) 24"(N)	24" OPEN BOTTOM (E) 30" CLOSED BOTTOM (N)
S-61	TYPE 9 INLET W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.00 ON (E) PIPE	200/214	5.50	2.00(N) 1.50(E)	18"(N) 24"(E)	24" OPEN BOTTOM (N) 30" CLOSED BOTTOM (E)
S-62	STORM MANHOLE W/J BOTTOM	200	6.10	0.17(N,E)	42"(N,E)	
S-63	STORM MANHOLE W/J BOTTOM	200	6.49	2.00(W) 0.52(N,S)	18"(W) 42"(N,S)	
S-64	STORM MANHOLE W/HALF ROUND WEIR CREST EL. 4.0 ON (E) PIPE	200	6.95	2.00(S,E)	18"(S,E)	24" CLOSED BOTTOM (E)
S-65	TYPE C INLET	200/232	5.95	2.00(N)	18"(N)	24" OPEN BOTTOM (N)
S-66	STORM MANHOLE	200	7.65	2.00(S,E)	24"(S,E)	OPEN BOTTOM (S)
S-67	TYPE C INLET	200/232	5.95	2.00(S)	18"(S)	24" OPEN BOTTOM (S)
S-68	STORM MANHOLE W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (W) PIPE	200	6.95	2.00(N,W)	24"(N,W)	OPEN BOTTOM (N) CLOSED BOTTOM (W)
S-69	STORM MANHOLE W/J BOTTOM	200	6.95	2.00(W) 2.00(E) 0.28(N,S)	18"(W) 24"(E) 42"(N,S)	

STORM DRAINAGE TABLE

S-68	STORM MANHOLE W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (W) PIPE	200	6.70	2.00(N,W)	24"(N,W)	36" CLOSED BOTTOM (W)
S-69	STORM MANHOLE W/J BOTTOM	200	6.58	2.00(W) 2.00(E) 0.26(N,S)	18"(W) 24"(E) 42"(N,S)	
S-70	STORM MANHOLE W/HALF ROUND WEIR CREST EL. 4.0 ON (E) PIPE	200	6.46	2.00(N,E)	18"(N,E)	24" CLOSED BOTTOM (E)
S-71	TYPE 9 INLET	200/214	5.50	2.00(S)	18"(S)	24" OPEN BOTTOM (S)
S-72	TYPE 9 INLET W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (S) PIPE	200/214	5.50	2.00(N,S)	18"(N,S)	24" OPEN BOTTOM (N) 24" CLOSED BOTTOM (S)
S-73	TYPE 9 INLET W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (S) PIPE	200/214	5.50	2.00(N,S)	18"(N,S)	24" OPEN BOTTOM (N) 24" CLOSED BOTTOM (S)
S-74	TYPE 9 INLET	200/214	5.97	2.00(N,SE)	24"(N,SE)	
S-75	STORM MANHOLE	200/214	6.30	2.00(NW,S)	24"(NW,S)	30" OPEN BOTTOM (S)
S-78	TYPE 9 INLET W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (S) PIPE	200/214	6.32	2.00(N,S)	24"(N,S)	36" OPEN BOTTOM (N) 30" CLOSED BOTTOM (S)
S-79	TYPE 9 INLET	200/214	6.72	2.50(E)	18"(E)	
S-84	TYPE 9 INLET	200/214	7.90	2.75(NE,SE)	18"(NE,SE)	
S-85	USF 5113-6194 FRAME & GRATE	200/NA	7.44	2.80(SW) 2.8(NW)	10"(SW) 18"(NW)	
S-86	TYPE 9 INLET	200/214	7.89	2.25(SE) 2.00(N)	18"(SE) 24"(N)	36" OPEN BOTTOM (N)
S-87	TYPE 9 INLET	200/214	6.77	2.50(NW)	18"(NW)	
S-88	TYPE 9 INLET	200/214	6.96	3.25(NW) 2.75(NE) 3.50(NE)	18"(NW) 24"(NE) 10"(NE)	
S-89	TYPE 9 INLET	200/214	6.96	3.35(SE) 3.50(W)	18"(SE) 10"(NE)	
S-91	TYPE 9 INLET	200/214	6.92	2.00(S,NE)	10"(NE) 18"(S)	24" OPEN BOTTOM (S)
S-92	TYPE 9 INLET	200/214	6.96	3.00(NW)	18"(NW)	
S-93	TYPE 9 INLET	200/214	6.96	2.75(SE) 2.25(SW)	18"(SE) 24"(SW)	
S-94	TYPE 9 INLET	200/214	6.92	2.11(NE,SW) 3.00 (SE)	24"(NE,SW) 12" (SE)	
S-95	TYPE 9 INLET	200/214	6.92	2.00(NE,S)	24"(NE,S)	
S-96	STORM MANHOLE	200	7.00	2.09(SE) -1.07(N)	12"(SE) 12"(N)	
S-99	TYPE 9 INLET	200/214	7.04	1.55(NE,SW)	36"(NE,SW)	
S-100	STORM MANHOLE W/J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (SW) PIPE	200	6.00	2.30(S) 0.00(NW) 0.00(SW)	10"(S) 36"(SW) 48"(NW)	42" CLOSED BOTTOM (SW)
S-101	STORM MANHOLE W/J BOTTOM	200	7.10	-0.07(N,SE)	48"(N,SE)	
S-102	STORM MANHOLE W/J BOTTOM	200	7.08	-0.15(W,S,E)	48"(W,S,E)	
S-103	STORM MANHOLE	200	6.69	2.80(NW,SW) 2.20(E)	48"(NW,SW) 24"(E)	
S-106	STORM MANHOLE W/J BOTTOM	200	6.00	2.00(N) 0.00(W) -0.50(E)	18"(N) 42"(W) 48"(E)	
S-107	STORM MANHOLE W/J BOTTOM	200	6.60	-0.86(W,S)	48"(W,S)	
S-108	STORM MANHOLE W/6'X10' RECTANGULAR J BOTTOM	200	5.75	2.00(N) -1.40(N)	24"(N) 48"(N)	
S-113	STORM MANHOLE	200	6.28	2.00(SE,SW,N)	18"(SE) 12"(SW,N)	24" OPEN BOTTOM (SE)
S-115	STORM MANHOLE W/ RECTANGULAR J BOTTOM W/HALF ROUND WEIR CREST EL. 4.0 ON (N) PIPE	200	7.66	0.24(N) -0.03(E,W)	36"(N) 48"(E,W)	42" CLOSED BOTTOM (N)
S-117	TYPE C INLET	200/232	6.00	2.00 (E)	18" (E)	OPEN BOTTOM (E)
S-118	TYPE C INLET	200/232	5.00	2.00 (E)	18" (E,W)	OPEN BOTTOM (W)

STORM DRAINAGE TABLE

STR. #	TYPE	FDOT INDEX	RIM ELEV.	INV. ELEV.	PIPE SIZE	BAFFLE
O-1	STORM MANHOLE W/ P BOTTOM	200	8.00±	2.00 W	24" (W)	
O-2	STORM MANHOLE W/ P BOTTOM	200	8.50±	2.00 NE,S	24" (NE,S)	OPEN BOTTOM (NE)
O-3	STORM MANHOLE W/ J BOTTOM	200	9.85	3.37 N	36" (N)	
O-4	STORM MANHOLE W/ J BOTTOM	200	10.8±	2.27 SW,E	36" (SW) 24"(E)	
O-5	STORM MANHOLE W/ J BOTTOM	200	11.2±	3.54 E	24" (E)	
				2.27 SE,NW	36" (SE,NW)	
O-6	STORM MANHOLE W/ J BOTTOM	200	11.44±	2.48 S,NW	36" (S,NW)	
O-7	TYPE C INLET	200/232	4.19	0.19 S	18" (S)	
O-8	TYPE C INLET	200/232	4.58	-0.16 N	18" (N)	
				-1.40 SE	18" (SE)	
O-9	STORM MANHOLE W/ J BOTTOM	200	9.89	2.16 NE,SE	36" (N,S)	
				2.00 W	24" (W)	
O-10	STORM MANHOLE W/ J BOTTOM W/ HALF ROUND WEIR CREST EL. 5.00 (W) PIPE	200	9.94	3.00 W 2.27 NE,SE	18" (W) 36" (NE,SE)	CLOSED BOTTOM (W)

CLASS V INJECTION WELL TABLE

STR. #	TYPE	RIM	WELL DISCHARGE INVERT	ROOF DRAIN/INCOMING PIPE INVERT	ROOF DRAIN/INCOMING PIPE SIZE	OVERFLOW PIPE INVERT	OVERFLOW PIPE SIZE
WELL#1	REMOVED	7.13	-	-	-	-	-
WELL#2	REMOVED	7.22	-	-	-	-	-
WELL#3	REMOVED	7.05	-	-	-	-	-
WELL#4	REMOVED	7.37	-	-	-	-	-
WELL#5	REMOVED	8.41	-	-	-	-	-
WELL#6	CLASS V INJECTION WELL	7.43	2.00	2.25	12"(NW)	4.00	12"(SE)
WELL#7	REMOVED	7.33	-	-	-	-	-
WELL#8	REMOVED	7.40	-	-	-	-	-
WELL#9	REMOVED	7.75	-	-	-	-	-
WELL#10	REMOVED	8.37	-	-	-	-	-
WELL#11	REMOVED	7.42	-	-	-	-	-

No.	REVISIONS	DATE	BY
1	BULLETIN No. 20	9/7/07	BLS
2	BULLETIN No. 16	8/13/07	ESM
3	BULLETIN No. 12	7/20/07	ESM
4	BULLETIN No. 8	7/6/07	ESM
5	BULLETIN No. 6	5/29/07	ESM
6	BULLETIN No. 3	4/6/07	ESM
7	BULL. No. 35 - BCEPD/FDEP RESP.	11/13/07	BLS
8	BULLETIN No. 31	10/25/07	BLS
9	BULLETIN No. 54	3/3/08	ESM
10	BULLETIN No. 38	1/21/08	BLS
11	BULLETIN No. 88	11/5/08	PAG
12	BULLETIN No. 74	6/13/08	ESM
13	BULLETIN No. 81	7/17/08	BLS
14	BULLETIN No. 82	9/5/08	ESM

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DESIGNED BY: MST
DRAWN BY: SMM
CHECKED BY: RLB

DESIGN ENGINEER: ROSCOE L. BIBY, P.E.
FLORIDA REGISTRATION NUMBER: 34789
SEAL

PAVING, GRADING AND DRAINAGE PLAN

VILLAGE AT GULFSTREAM PARK PHASE 1

BROWARD COUNTY FLORIDA

DATE 5/31/06
PROJECT NO. 047873000
SHEET NUMBER C19

PROGRESS ISSUANCE

Drawing name: H:\47873000\CADD\CONSTR\CONSTR CONT AND CRATE\C14-C19-PGD-3000.dwg C19 Nov 04, 2008 3:22pm by: britt.stephens
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