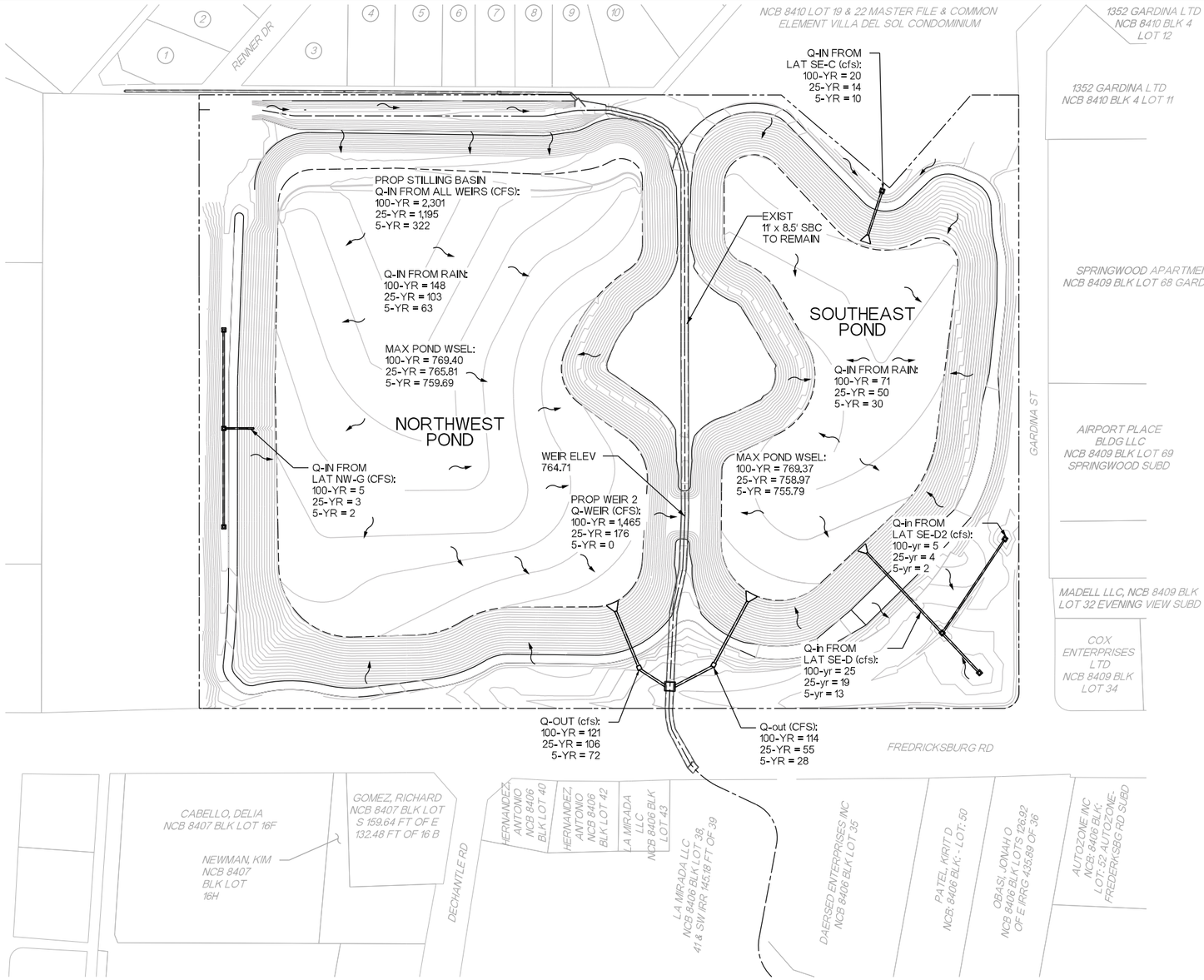

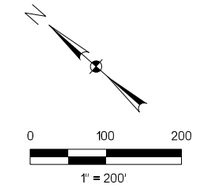

LEGEND:

- PROPERTY LINE
- 625 PROP CONTOUR
- FLOW DIRECTION

NOTES:

1. CONTOURS AND PARCEL DATA ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. SEE SHEET C26.04 THROUGH C26.05 FOR STORM DRAIN HYDRAULIC CALCULATIONS AND POND HYDROGRAPHS.
3. HYDROLOGIC VALUES SHOWN ARE FOR THE PEAK OF THE GIVEN STORM EVENT. FOR CONDITIONS OTHER THAN THE PEAK, REFER TO THE PROJECT XPSWMM MODEL FOR THE STORM EVENT IN QUESTION.
4. HYDROGRAPHS IN GRAPH FORM ARE INCLUDED IN THE DRAINAGE REPORT FOR THIS PROJECT.

STATE OF TEXAS
RONALD J. BRANYON
101950
REGISTERED PROFESSIONAL ENGINEER
2/7/2013

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY HALFF ASSOCIATES, INC., PE# 101950 ON 02-07-2013. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 300 EAST SONTERRA, BLVD, SUITE 230, SAN ANTONIO, TEXAS 78258. TBPE FIRM #F-312

NW POND STAGE-STORAGE	
STAGE (ft)	STORAGE (ac-ft)
752.11	0.0
753	0.1
754	0.5
755	1.9
756	4.5
757	8.7
758	14.8
759	22.5
760	31.7
761	41.9
762	52.4
763	63.3
764	74.4
765	85.7
766	97.3
767	109.2
768	121.3
769	133.7
770	146.6
771	160.0
772	174.0

SE POND STAGE-STORAGE	
STAGE (ft)	STORAGE (ac-ft)
752.14	0.0
753	0.0
754	0.4
755	1.5
756	3.7
757	7.1
758	11.1
759	15.4
760	19.8
761	24.5
762	29.4
763	34.4
764	39.7
765	45.2
766	50.9
767	56.8
768	63.0
769	69.5
770	76.5
771	84.1
772	91.8

1	JAPHET GLENNA L M TRUSTEE NCB 10354 BLK 3 LOT 10	6	ELLIS, DOROTHY NCB 10356 BLK 5 LOT 25
2	VILLALOBOS, ROBERT NCB 10354 BLK 3 LOT 9	7	ELLIS, SAMUEL NCB 10356 BLK 5 LOT 26
3	BEAL, CAROL MOORE NCB 10356 BLK 5 LOT 1	8	GUERRA, MANUEL NCB 10356 BLK 5 LOT 27
4	HAUFLER, HARVEY NCB 10356 BLK 5 LOT 2	9	GUERRA, JOSEFA NCB 10356 BLK 5 LOT 28
5	GARCIA, NANCY NCB 10356 BLK 5 LOT 3	10	LININGER, DOROTHY NCB 10356 BLK 5 LOT 15

BEXAR COUNTY
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK

REVISIONS

LADDIE PLACE PHASE III RSWF - SA-2

HYDRAULIC CALCULATIONS PROPOSED POND

HALFF®
300 EAST SONTERRA BLVD., SUITE 230
SAN ANTONIO, TEXAS 78258-3991
TEL (210) 798-1895
FAX (210) 798-1896
TBPE FIRM REGISTRATION #312

DGN: HL & JR		SHEET NO.	C26.03
CHK DGN: RJB			
DWG:	STATE	COUNTY	
CHK DWG:	TEXAS	BEXAR	3 OF 5

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100-yr NW POND HYDROGRAPH

TIME	Q-in Weir 1 (cfs)	Q-in Lat G (cfs)	Q-in Rain (cfs)	Q-in Total (cfs)	STAGE (ft)	Q-out Weir 2 (cfs)	Q-out Lat A (cfs)	Q-out Total (cfs)
3:47	0	0	0	0	752.11	0	0	0
8:07	0	0	2	2	753.00	0	1	1
10:47	0	0	5	5	754.00	0	0	0
11:33	0	0	18	18	755.00	0	0	0
12:02	59	1	33	93	756.00	0	0	0
12:09	186	3	50	239	756.00	0	0	0
12:14	385	4	80	470	757.00	0	0	0
12:18	620	5	113	738	758.00	0	0	0
12:22	925	4	139	1068	758.00	0	0	0
12:28	1235	2	146	1383	760.00	0	0	0
12:34	1371	1	120	1492	761.00	0	0	0
12:40	1366	1	88	1455	762.00	0	23	23
12:46	1510	1	66	1577	763.00	0	45	45
12:51	1556	1	55	1611	764.00	0	58	58
12:56	2184	1	46	2231	765.00	51	69	120
13:01	2298	1	41	2340	766.00	323	79	401
13:07	2257	1	36	2295	768.00	715	88	802
13:17	2043	0	30	2073	769.00	1226	97	1323
13:25	1751	0	25	1777	769.22	1433	98	1531
13:34	1477	0	21	1498	769.00	1369	98	1467
14:38	0	0	6	6	769.00	31	116	146
15:39	0	0	5	5	768.00	34	121	155
16:39	0	0	5	5	767.00	33	117	150
17:41	0	0	5	5	766.00	32	112	144
18:58	0	0	3	3	765.00	0	109	110
20:16	0	0	3	3	764.00	0	106	106
21:36	0	0	3	3	763.00	0	100	100
22:59	0	0	3	3	762.00	0	94	94
0:21	0	0	0	0	761.00	0	91	91
1:34	0	0	0	0	760.00	0	86	86
2:38	0	0	0	0	759.00	0	80	80
3:31	0	0	0	0	758.00	0	74	74
4:10	0	0	0	0	757.00	0	68	68
4:38	0	0	0	0	757.00	0	63	63
4:55	0	0	0	0	756.00	0	59	59
5:05	0	0	0	0	756.00	0	56	56
5:26	0	0	0	0	755.10	0	45	45

25-yr NW POND HYDROGRAPH

TIME	Q-in Weir 1 (cfs)	Q-in Lat G (cfs)	Q-in Rain (cfs)	Q-in Total (cfs)	STAGE (ft)	Q-out Weir 2 (cfs)	Q-out Lat A (cfs)	Q-out Total (cfs)
3:53	0	0	0	0	752.11	0	0	0
10:17	0	0	2	2	753.00	0	2	2
11:09	0	0	6	6	754.00	0	0	0
11:54	0	0	18	18	755.00	0	0	0
12:10	67	2	39	108	756.00	0	0	0
12:16	192	3	66	261	756.00	0	0	0
12:22	470	2	96	569	757.00	0	0	0
12:30	712	1	98	811	758.00	0	0	0
12:40	811	1	64	876	760.00	0	0	0
12:52	817	1	39	857	761.00	0	23	23
13:04	997	0	28	1025	763.00	0	46	46
13:14	1153	0	22	1175	764.00	0	61	61
13:29	661	0	15	676	766.00	104	76	180
13:41	292	0	12	304	765.81	174	81	255
14:06	3	0	8	11	765.00	105	90	194
15:33	0	0	3	3	764.00	0	101	101
16:54	0	0	2	2	763.00	0	104	104
18:14	0	0	2	3	762.00	0	100	100
19:34	0	0	2	3	761.00	0	94	94
20:50	0	0	2	3	760.00	0	88	88
21:57	0	0	2	3	759.00	0	83	83
22:53	0	0	2	3	759.00	0	77	77
23:36	0	0	2	3	758.00	0	73	73
0:06	0	0	0	0	757.00	0	69	69
0:24	0	0	0	0	757.00	0	67	67
0:34	0	0	0	0	757.00	0	66	66
1:31	0	0	0	0	755.00	0	47	47

5-yr NW POND HYDROGRAPH

TIME	Q-in Weir 1 (cfs)	Q-in Lat G (cfs)	Q-in Rain (cfs)	Q-in Total (cfs)	STAGE (ft)	Q-out Weir 2 (cfs)	Q-out Lat A (cfs)	Q-out Total (cfs)
6:46	0	0	0	0	752.11	0	0	0
11:01	0	0	1	2	753.00	0	1	1
11:41	0	0	5	5	754.00	0	0	0
12:08	0	1	17	18	754.00	0	0	0
12:18	94	2	45	141	755.00	0	0	0
12:30	227	1	60	288	757.00	0	0	0
12:59	270	0	18	289	759.00	0	0	0
13:35	6	0	7	13	759.68	0	36	36
14:20	0	0	5	5	759.00	0	66	66
15:29	0	0	2	2	758.00	0	72	72
16:15	0	0	2	2	758.00	0	71	71
16:47	0	0	2	2	757.00	0	66	66
17:08	0	0	2	2	757.00	0	62	62
21:06	0	0	2	2	753.00	0	2	2
22:37	0	0	0	0	752.11	0	0	0

NOTE:
HYDROLOGIC VALUES SHOWN ARE FOR THE PEAK OF THE GIVEN STORM EVENT. FOR CONDITIONS OTHER THAN THE PEAK, REFER TO THE PROJECT XPSWMM MODEL FOR THE STORM EVENT IN QUESTION.

STATE OF TEXAS
RONALD J. BRANYON
101950
REGISTERED PROFESSIONAL ENGINEER
2/7/2013

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BEXAR COUNTY
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK

REVISIONS

LADDIE PLACE PHASE III RSWF - SA-2

HYDRAULIC CALCULATIONS PROPOSED POND

HALFF
300 EAST SONTERRA BLVD., SUITE 230
SAN ANTONIO, TEXAS 78258-3991
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FAX (210) 798-1896
TBPE FIRM REGISTRATION #312

DGN: HL & JR
CHK DGN: RJB
DWG:
CHK DWG:
STATE: TEXAS
COUNTY: BEXAR
SHEET NO. C26.04
4 OF 5

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100-yr SE POND HYDROGRAPH									
TIME	Q-in Weir 2 (cfs)	Q-in Inlet C (cfs)	Q-in Inlet D (cfs)	Q-in Rain (cfs)	Q-in Total (cfs)	STAGE (ft)	Q-out Lat B (cfs)	Q-out Emergency Spillway (cfs)	Q-out Total (cfs)
1:05	0	0	0	0	0	752.14	0	0	0
7:55	0	0	0	1	1	753.00	1	0	1
10:47	0	1	1	3	5	754.00	0	0	0
11:43	0	3	4	9	17	755.00	0	0	0
12:11	0	9	13	52	74	756.00	0	0	0
12:53	0	6	6	12	23	757.00	0	0	0
13:02	388	4	0	11	403	757.00	0	0	0
13:07	715	4	0	10	729	758.00	0	0	0
13:11	950	4	0	10	964	760.00	0	0	0
13:14	1101	4	0	9	1114	761.00	0	0	0
13:18	1263	3	0	8	1274	762.00	10	0	10
13:21	1354	3	0	7	1364	763.00	38	0	38
13:24	1418	3	0	7	1427	764.00	51	0	51
13:28	1461	2	0	7	1470	765.00	64	0	64
13:31	1447	2	0	6	1456	766.00	72	0	72
13:36	1317	2	0	6	1326	768.00	83	0	83
13:41	631	2	0	5	639	769.00	90	0	90
13:53	167	1	0	3	172	769.30	95	0	95
14:37	32	1	0	2	34	769.00	109	0	109
15:38	34	1	0	2	36	768.00	114	0	114
16:37	33	1	0	2	36	767.00	111	0	111
17:36	33	1	0	2	35	766.00	106	0	106
18:19	30	0	0	1	31	765.00	104	0	104
19:00	0	0	0	1	1	764.00	102	0	102
19:40	0	0	0	1	1	763.00	97	0	97
20:21	0	0	0	1	1	762.00	92	0	92
21:04	0	0	0	1	1	761.00	86	0	86
21:50	0	0	0	1	1	760.00	79	0	79
22:42	0	0	8	1	9	759.00	71	0	71
23:31	0	0	3	1	4	758.00	65	0	65
0:16	0	0	1	0	1	757.00	60	0	60
0:49	0	0	0	0	0	756.00	54	0	54
1:13	0	0	0	0	0	756.00	49	0	49
1:30	0	0	0	0	0	755.00	42	0	42
5:05	0	0	0	0	0	752.30	0	0	0

25-yr SE POND HYDROGRAPH									
TIME	Q-in Weir 2 (cfs)	Q-in Inlet C (cfs)	Q-in Inlet D (cfs)	Q-in Rain (cfs)	Q-in Total (cfs)	STAGE (ft)	Q-out Lat B (cfs)	Q-out Emergency Spillway (cfs)	Q-out Total (cfs)
1:07	0	0	0	0	0	752.14	0	0	0
10:07	0	0	0	1	2	753.00	1	0	1
11:13	0	1	1	3	5	754.00	0	0	0
12:01	0	4	5	13	21	755.00	0	0	0
12:23	0	14	19	36	69	756.00	0	0	0
14:32	28	1	0	2	30	758.95	44	0	44
15:32	0	0	2	1	4	758.00	50	0	50
16:22	0	0	1	1	2	757.00	54	0	54
17:40	0	0	0	1	2	756.00	39	0	39
0:16	0	0	0	0	0	753.00	6	0	6
1:54	0	0	0	0	0	752.14	0	0	0

5-yr SE POND HYDROGRAPH									
TIME	Q-in Weir 2 (cfs)	Q-in Inlet C (cfs)	Q-in Inlet D (cfs)	Q-in Rain (cfs)	Q-in Total (cfs)	STAGE (ft)	Q-out Lat B (cfs)	Q-out Emergency Spillway (cfs)	Q-out Total (cfs)
4:12	0	0	0	0	0	752.14	0	0	0
10:53	0	0	0	0	1	753.00	1	0	1
11:45	0	1	1	3	5	754.00	0	0	0
12:12	0	5	7	23	34	754.00	0	0	0
14:15	0	1	1	2	3	755.78	0	0	0
15:22	0	0	0	1	1	755.00	27	0	27
16:01	0	0	0	1	1	754.00	9	0	9
21:08	0	0	0	0	1	753.00	1	0	1
23:17	0	0	0	0	0	752.14	0	0	0

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BEXAR COUNTY
FLOOD CONTROL DIVISION

NO	DATE	DESCRIPTION	DWG	CHK

REVISIONS

LADDIE PLACE PHASE III RSWF - SA-2

HYDRAULIC CALCULATIONS PROPOSED POND

HALFF
300 EAST SONTERRA BLVD., SUITE 230
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TBPE FIRM REGISTRATION #312

DGN: HL & JR		SHEET NO.	C26.05
CHK DGN: RJB			
DWG:	STATE	COUNTY	
CHK DWG:	TEXAS	BEXAR	5 OF 5

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