

PROJECT GEKKO - STORM AS-BUILTS

PARAGON WAY ROCK HILL, SOUTH CAROLINA



FLOOD CERTIFICATION
 THIS IS TO CERTIFY THAT THE PROPERTY SHOWN ON THIS PLAN IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON MAPS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FEDERAL RESERVE ADMINISTRATION, COMMUNITY DEVELOPMENT ADMINISTRATION, DATED SEPTEMBER 28, 2008.
 NUMBER 4591002282, DATED SEPTEMBER 28, 2008.

NOTES

1. THIS MAP IS NOT A CERTIFIED SURVEY BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM THE GEAKCS GROUP.

2. THE UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONFORMANCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES FROM THE APPROVED PLANS AND ORDNANCE. ANY AND ALL DEVIATIONS FROM THE APPROVED PLANS ARE SHOWN ON THE ATTACHED AS-BUILT AND HAVE BEEN CERTIFIED BY AN ENGINEER TO BE TRUE AND CORRECT.

3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY UTILITIES DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATION & PROTECTION OF EXISTING ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES. ANY AND ALL DAMAGES OR INCONVENIENCE TO INDIVIDUAL SERVICES PRESENTLY IN SERVICE WHICH ARE CAUSED BY CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AT AN ADDITIONAL EXPENSE TO THE UTILITY OWNER. ANY AND ALL DAMAGES OR INCONVENIENCE TO INDIVIDUAL SERVICES PRESENTLY NOT IN SERVICE WHICH ARE CAUSED BY CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AND LEGALLY DISPOSED OF DURING CONSTRUCTION.

4. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR ALL UNDERGROUND AND OVERHEAD UTILITIES.

5. THE CONTRACTOR IS RESPONSIBLE FOR DURING THE CONSTRUCTION OF THIS DEVELOPMENT.

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7. NO RETLAND PRACTICES ARE PROPOSED DURING CONSTRUCTION OF THIS DEVELOPMENT.

8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.

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DEVELOPMENT SUMMARY

PROJECT NAME: PROJECT GEKKO
 PLANS PREPARED BY: THE GEAKCS GROUP, P.C. PHONE # 704-227-1440
 ADDRESS: 570 POLARIS PARKWAY WESTMINSTER, OHIO 43082
 PLANS PREPARED FOR: GEAKCS GROUP, P.C. PHONE # 704-227-1440
 ADDRESS: 8720 RED OAK BLVD, SUITE 420 CHARLOTTE, NC 28217
 ZONING: RESIDENTIAL SINGLE-FAMILY, R-100
 TAX PARCEL NUMBER: 662201112
 VARIOUS REQUIREMENTS: 0 FT FROM R/W
 SETBACK FRONT: 0 FT SIDE YARD (R): 0 FT REAR YARD (R): 0 FT
 TOTAL PARCEL SIZE: 2.3333/ACRES 102,500 SQ. FEET/ACRES
 NUMBER OF LOTS: 1
 AVERAGE LOT SIZE: 23,125 SQ. FEET/ACRES

SITE DATA

SHEETS: 01
 WATER MAINS: 01
 SEWER MAINS: 01
 STORM MAINS: 01
 OTHER: 01
 NUMBER OF SHEETS: 01
 NUMBER OF MANHOLES: 0
 NUMBER OF TRAPS: 0
 NUMBER OF VALVES: 0
 NUMBER OF BUILDINGS: 0
 NUMBER OF POND #1 AS BUILTS: 0
 NUMBER OF POND #2 AS BUILTS: 0
 NUMBER OF POND #3 AS BUILTS: 0
 NUMBER OF POND #4 AS BUILTS: 0
 NUMBER OF POND #5 AS BUILTS: 0
 NUMBER OF POND #6 AS BUILTS: 0
 NUMBER OF POND #7 AS BUILTS: 0
 NUMBER OF POND #8 AS BUILTS: 0
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 NUMBER OF POND #100 AS BUILTS: 0

COVER SHEET
 BOUNDARY SURVEY
 STORM AS BUILTS
 STORM AS BUILTS
 POND #1 AS BUILTS
 POND #2 AS BUILTS
 AS-BUILT DETAILS
 MAINTENANCE PLAN - AS BUILT
 COVER SHEET

ALL CONSTRUCTION HAS BEEN COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND APPLICABLE CITY STANDARDS AND ORDINANCE. ANY AND ALL DEVIATIONS FROM THE APPROVED PLANS ARE SHOWN ON THE ATTACHED AS-BUILT AND HAVE BEEN CERTIFIED BY AN ENGINEER TO BE TRUE AND CORRECT.

GRAPHIC SCALE
 1" = 80 FEET

PROJECT GEKKO
 998 PARAGON WAY
 ROCK HILL, SOUTH CAROLINA

ISAAC'S
 8720 RED OAK BOULEVARD, SUITE 420
 CHARLOTTE, N.C. 28217
 PHONE (704) 227-1440 FAX (704) 227-1433

THE ENGINEER'S SEAL AND SIGNATURE
 SOUTH CAROLINA
 PROFESSIONAL ENGINEER
 NO. 23419

NO. BY DATE



ALL CONSTRUCTION HAS BEEN COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS, AND APPLICABLE CITY STANDARDS AND ORDINANCE. ANY AND ALL DEVIATIONS FROM THE APPROVED PLANS ARE SHOWN ON THE ATTACHED AS-BUILT AND HAVE BEEN CERTIFIED BY AN ENGINEER TO BE TRUE AND CORRECT.

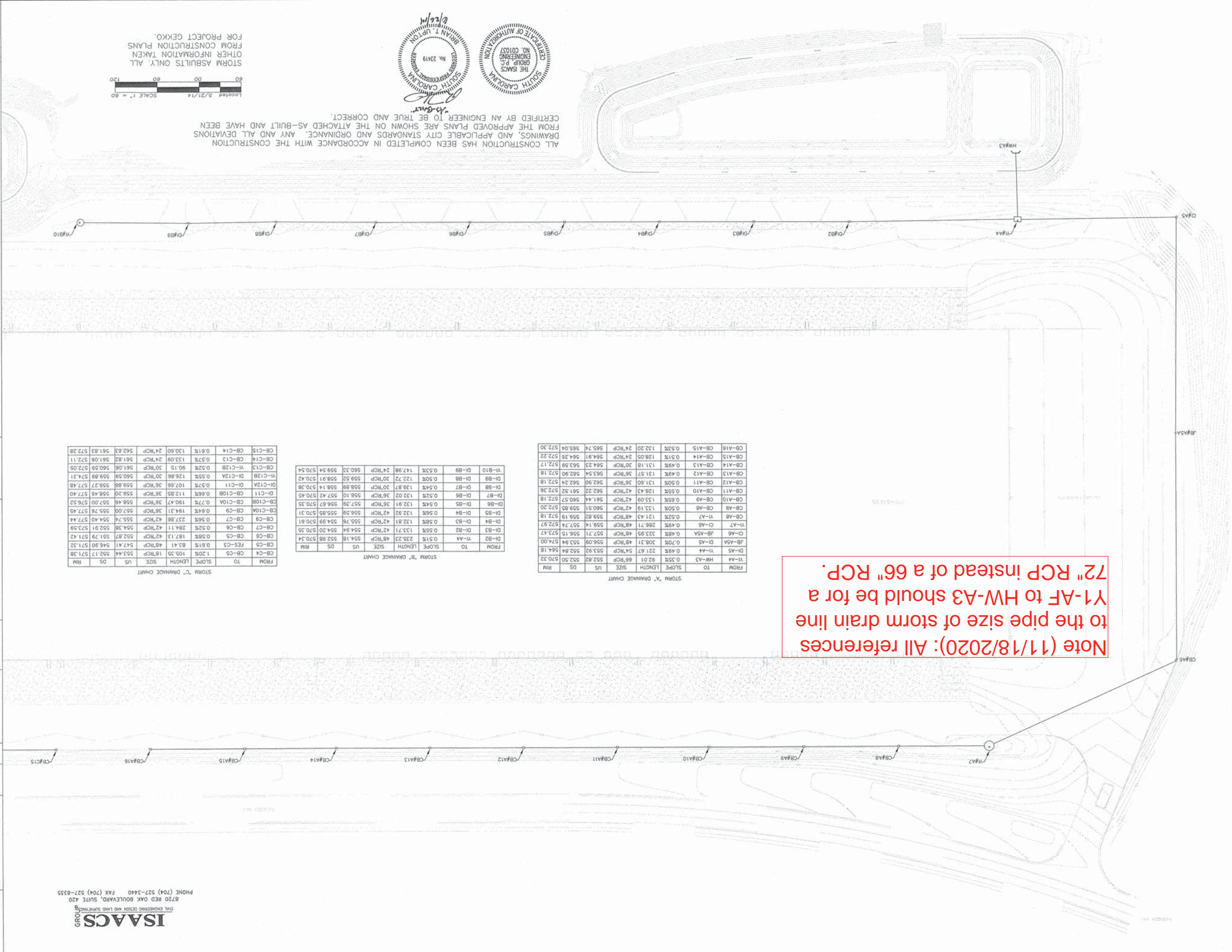
STORM ASBUILTS ONLY. ALL OTHER INFORMATION TAKEN FROM CONSTRUCTION PLANS FOR PROJECT GEKKO.



5

SHEET NO.

PROJECT GEKKO
STORM ASBUILTS
ROCK HILL/SOUTH CAROLINA



Note (11/18/2020): All references to the pipe size of storm drain line Y1-AF to HW-A3 should be for a 72" RCP instead of a 66" RCP.

STORM "A" DRAINAGE CHART

FROM	TO	SLOPE	LENGTH	SIZE	US	DS	RM
Y1-A4	HW-A3	0.35%	92.01	66"RCP	552.82	552.50	570.32
Y1-A4	HW-A3	0.49%	221.67	54"RCP	553.92	552.84	564.18
Y1-A5	Y1-A4	0.70%	308.31	48"RCP	556.09	553.94	574.00
Y1-A5	Y1-A4	0.49%	221.67	54"RCP	553.92	552.84	564.18
Y1-A6	Y1-A5	0.48%	323.95	48"RCP	557.71	556.15	573.47
Y1-A7	Y1-A6	0.49%	286.71	48"RCP	559.14	557.74	572.97
Y1-A7	Y1-A6	0.52%	121.43	48"RCP	559.82	559.19	572.18
CB-A8	Y1-A7	0.50%	133.19	42"RCP	560.51	559.83	572.20
CB-A8	Y1-A7	0.50%	133.19	42"RCP	560.51	559.83	572.20
CB-A9	CB-A8	0.55%	128.43	42"RCP	562.22	561.52	572.36
CB-A10	CB-A9	0.55%	128.43	42"RCP	562.22	561.52	572.36
CB-A11	CB-A10	0.50%	131.60	36"RCP	562.90	562.24	572.18
CB-A12	CB-A11	0.49%	131.57	36"RCP	563.54	562.90	572.18
CB-A13	CB-A12	0.49%	131.57	36"RCP	563.54	562.90	572.18
CB-A14	CB-A13	0.49%	131.57	36"RCP	563.54	562.90	572.18
CB-A15	CB-A14	0.51%	128.05	24"RCP	564.91	564.26	572.22
CB-A16	CB-A15	0.53%	132.20	24"RCP	565.74	565.04	572.30

STORM "B" DRAINAGE CHART

FROM	TO	SLOPE	LENGTH	SIZE	US	DS	RM
Y1-B10	DI-B9	0.53%	147.98	24"RCP	560.32	559.54	570.54
DI-B9	DI-B8	0.50%	122.72	30"RCP	559.52	558.91	570.42
DI-B8	DI-B7	0.54%	139.87	30"RCP	558.89	558.14	570.38
DI-B7	DI-B6	0.52%	132.02	36"RCP	558.10	557.42	570.45
DI-B6	DI-B5	0.54%	132.91	36"RCP	557.39	556.67	570.35
DI-B5	DI-B4	0.56%	132.92	42"RCP	556.59	555.85	570.31
DI-B4	DI-B3	0.56%	132.81	42"RCP	555.78	554.99	570.61
DI-B3	DI-B2	0.56%	133.71	42"RCP	554.94	554.20	570.35
DI-B2	Y1-A4	0.51%	235.23	48"RCP	554.18	552.88	570.34
FROM	TO	SLOPE <td>LENGTH<td>SIZE<td>US<td>DS<td>RM</td></td></td></td></td>	LENGTH <td>SIZE<td>US<td>DS<td>RM</td></td></td></td>	SIZE <td>US<td>DS<td>RM</td></td></td>	US <td>DS<td>RM</td></td>	DS <td>RM</td>	RM

STORM "C" DRAINAGE CHART

FROM	TO	SLOPE	LENGTH	SIZE	US	DS	RM
CB-C4	CB-C5	1.20%	105.35	18"RCP	553.44	552.17	571.38
CB-C5	FES-C3	0.61%	83.41	48"RCP	552.87	551.79	571.32
CB-C6	CB-C5	0.58%	187.13	42"RCP	552.91	551.91	573.59
CB-C7	CB-C6	0.52%	284.11	42"RCP	552.74	551.40	577.44
CB-C9	CB-C7	0.56%	237.82	42"RCP	552.00	550.76	577.45
CB-C10A	CB-C9	0.64%	194.31	36"RCP	552.00	550.59	577.40
CB-C10B	CB-C10A	0.77%	190.47	36"RCP	550.46	549.00	576.52
DI-C11	CB-C10B	0.66%	112.85	36"RCP	549.46	548.46	577.40
DI-C12A	DI-C11	0.57%	107.66	36"RCP	548.88	548.27	577.48
Y1-C12B	DI-C12A	0.55%	126.86	30"RCP	548.59	548.89	574.51
CB-C13	CB-C12	0.52%	90.13	30"RCP	548.06	548.59	572.05
CB-C14	CB-C13	0.57%	133.09	24"RCP	547.82	548.06	572.11
CB-C15	CB-C14	0.61%	130.60	24"RCP	546.63	547.83	572.28

PROJECT No: 3242
DATE 5/22/14
SCALE 1"=60'
DES. HRC
DR. HRC
CKD. CDM

No.	DATE	REVISION

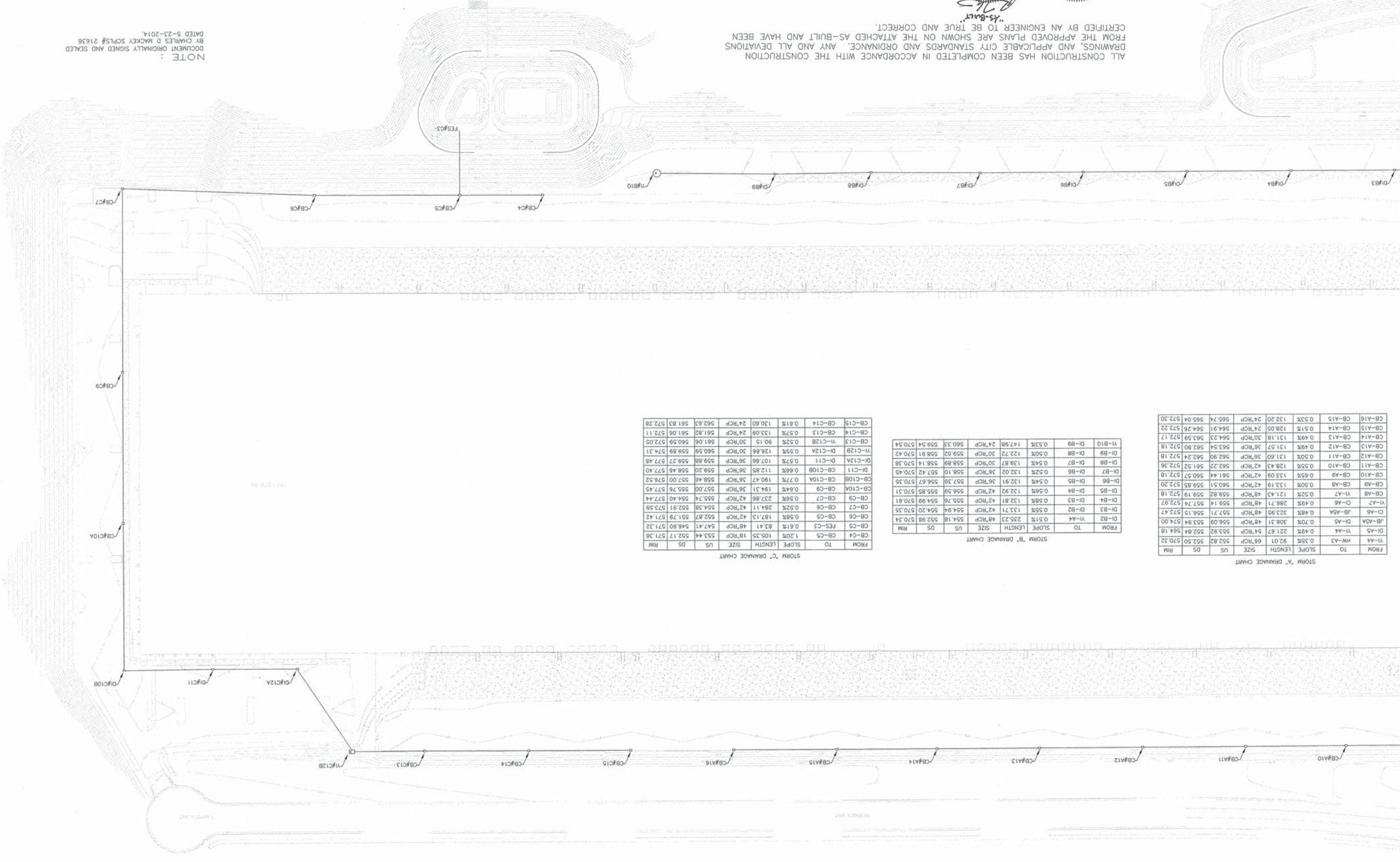
ISAACS GROUP
CIVIL ENGINEERING DESIGN AND LAND SURVEYING
8720 RED OAK BOULEVARD, SUITE 420
PHONE (704) 527-3440 FAX (704) 527-8335

P.O. BOX 7727, CHARLOTTE, NC 28241 (704) 794-888-2284 FAX (704) 388-2886



NOTE:
 DOCUMENT ORIGINALLY SIGNED AND SCALED
 BY CHARLES D WACKY SCPL# 21636
 DATED 5-23-2014.

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STORM "A" DRAINAGE CHART

FROM	TO	SLOPE	LENGTH	SIZE	US	DS	RM
DI-A4	HW-A3	0.35%	92.01	66"	RCP	552.82	570.32
DI-A5	DI-A4	0.43%	221.67	54"	RCP	552.84	564.18
DI-A5A	DI-A5	0.70%	308.31	48"	RCP	556.09	552.94
DI-A7	DI-A6	0.48%	286.71	48"	RCP	557.71	572.47
DI-A7	DI-A7	0.52%	121.43	48"	RCP	559.82	572.18
DI-A8	DI-A7	0.50%	133.19	42"	RCP	560.51	572.20
DI-A8	DI-A8	0.63%	133.09	42"	RCP	561.44	572.18
DI-A10	DI-A8	0.63%	133.09	42"	RCP	561.44	572.18
DI-A11	DI-A10	0.55%	128.43	42"	RCP	562.22	572.36
DI-A12	DI-A11	0.50%	131.57	36"	RCP	562.96	572.18
DI-A13	DI-A12	0.49%	131.18	30"	RCP	563.24	572.18
DI-A14	DI-A13	0.51%	128.05	24"	RCP	564.25	572.17
DI-A16	DI-A14	0.53%	132.20	24"	RCP	565.74	572.30

STORM "B" DRAINAGE CHART

FROM	TO	SLOPE	LENGTH	SIZE	US	DS	RM
DI-B2	DI-A4	0.51%	235.23	48"	RCP	554.18	552.88
DI-B2	DI-B2	0.51%	235.23	48"	RCP	554.18	552.88
DI-B3	DI-B2	0.55%	133.71	42"	RCP	554.94	570.35
DI-B4	DI-B3	0.58%	132.81	42"	RCP	555.76	570.61
DI-B5	DI-B4	0.56%	132.92	42"	RCP	556.59	570.31
DI-B6	DI-B5	0.54%	132.91	36"	RCP	557.39	570.35
DI-B7	DI-B6	0.52%	132.02	36"	RCP	558.10	570.45
DI-B8	DI-B7	0.54%	139.87	30"	RCP	558.89	570.38
DI-B9	DI-B8	0.50%	122.72	30"	RCP	559.52	568.91
DI-B10	DI-B9	0.53%	147.98	24"	RCP	560.33	570.54

STORM "C" DRAINAGE CHART

FROM	TO	SLOPE	LENGTH	SIZE	US	DS	RM
CB-C4	CB-C5	1.20%	105.35	18"	RCP	553.44	552.17
CB-C4	CB-C4	0.61%	83.41	48"	RCP	547.41	546.90
CB-C5	FE5-C3	0.61%	83.41	48"	RCP	547.41	546.90
CB-C6	CB-C5	0.58%	187.13	42"	RCP	552.87	551.79
CB-C7	CB-C6	0.52%	284.11	42"	RCP	554.38	553.59
CB-C9	CB-C7	0.56%	237.86	42"	RCP	555.74	557.44
CB-C10A	CB-C9	0.64%	194.31	36"	RCP	557.00	557.45
CB-C10B	CB-C10A	0.77%	190.47	36"	RCP	558.46	576.52
DI-C11	CB-C10B	0.66%	112.85	36"	RCP	559.20	558.46
DI-C12A	DI-C11	0.57%	107.66	36"	RCP	559.88	577.48
DI-C12B	DI-C12A	0.55%	126.66	30"	RCP	560.59	574.31
CB-C13	DI-C12B	0.52%	90.15	30"	RCP	561.06	572.05
CB-C14	CB-C13	0.57%	133.09	24"	RCP	561.82	572.11
CB-C15	CB-C14	0.61%	130.60	24"	RCP	562.63	572.28

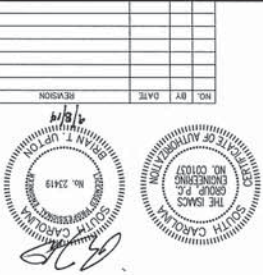
PROJECT GEKKO
 STORM ASBUILTS
 ROCK HILL/SOUTH CAROLINA



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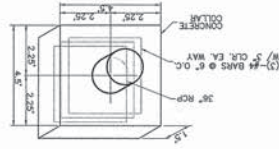
PROJECT No: 3242
 DATE 5/22/14
 SCALE 1"=60'
 DES. HPC
 DR. HPC
 CKD. CDM

No.	DATE	REVISION



ALL CONSTRUCTION HAS BEEN COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS, AND APPLICABLE CITY STANDARDS AND ORDINANCE. ANY AND ALL DEVIATIONS FROM THE APPROVED PLANS SHOWN ON THE ATTACHED AS-BUILT AND HAVE BEEN CERTIFIED BY AN ENGINEER TO BE TRUE AND CORRECT.

CONCRETE ANTI-SEEP COLLAR DETAIL



GEOTECHNICAL SPECIFICATION FOR DAM CONSTRUCTION

A. A minimum of one (1) in-place density test should be performed in accordance with ASTM D 1555 for each 2,000 sq. ft. of lift area with a minimum of two (2) tests per lift.

B. Whenever construction may result in foundation deterioration, the geotechnical engineer shall be notified immediately in writing and a report for more detailed specifications relating to selection and placement of structural fill.

C. All fill to be utilized at the site should be selected on the basis of its plasticity and placement of structural fill.

D. All fill placed within the upper one (1) foot of the base foundation and the minimum of 95 percent of the maximum dry density as determined by ASTM D-698 (Standard Proctor). All fill material should be placed in layers not exceeding 12 inches in loose density as determined by ASTM D-698 (Standard Proctor). All fill material should be placed and compacted in layers not exceeding 12 inches in loose density as determined by ASTM D-698 (Standard Proctor). The moisture content of all fill at the time of the placement should be within 2 percent of the optimum moisture content as established by the standard.

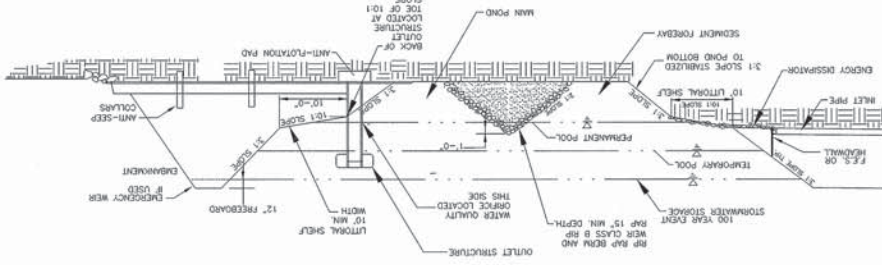
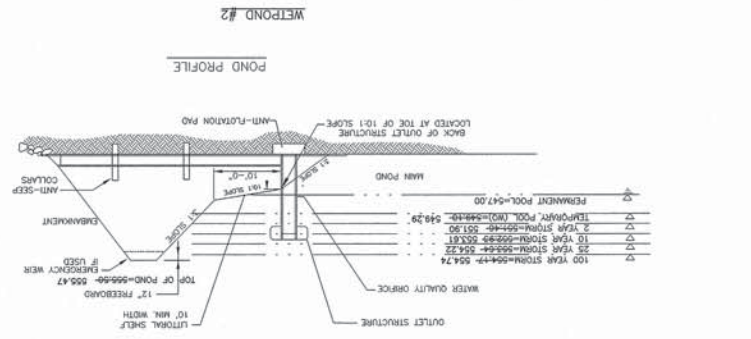
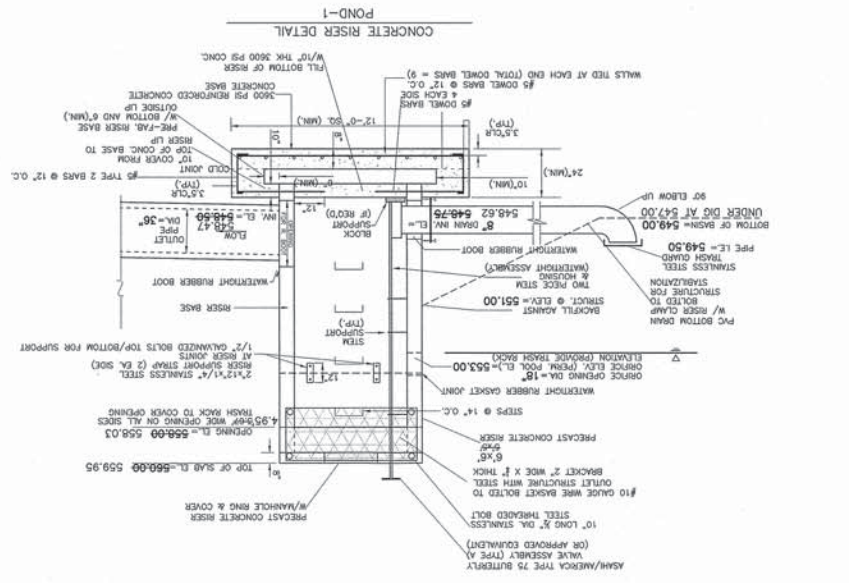
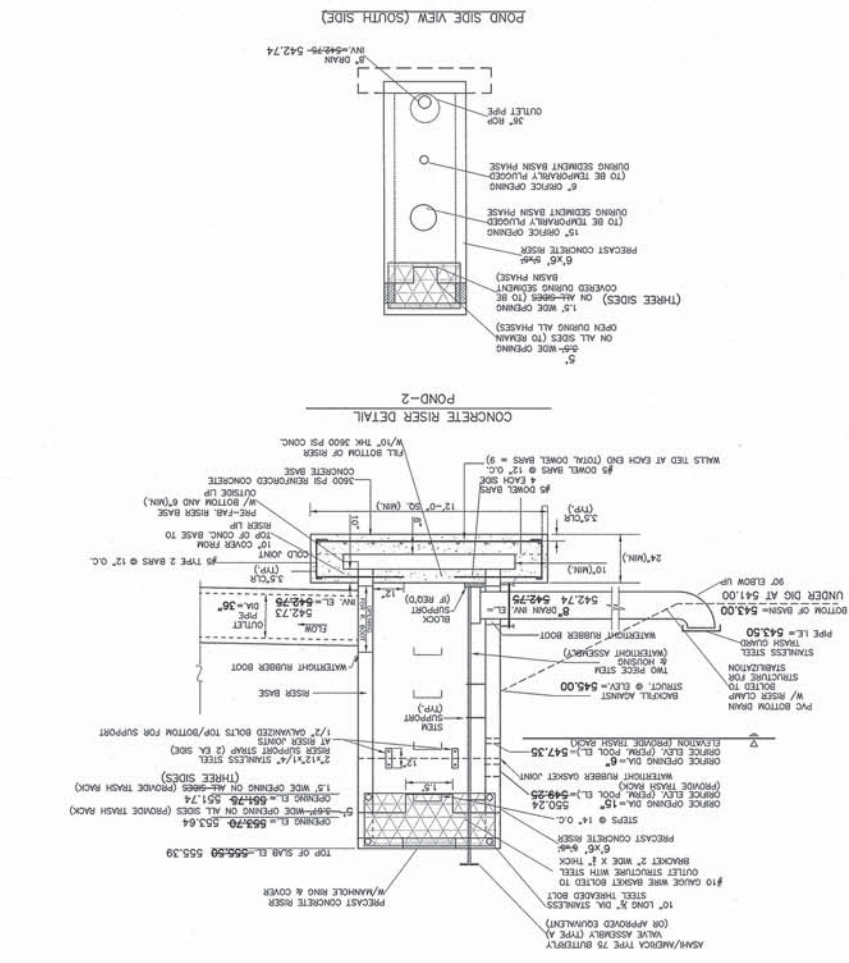
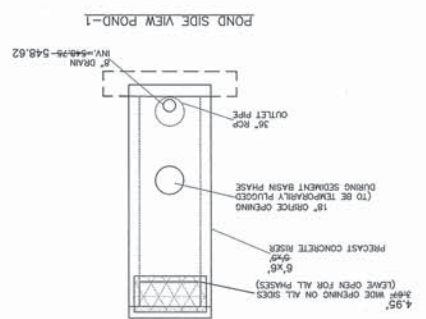
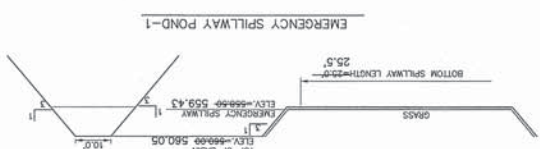
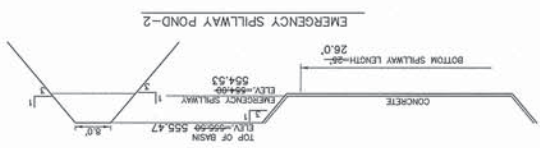
E. The contractor shall submit a report for more detailed specifications relating to the selection and placement of structural fill.

F. All fill placed within the upper one (1) foot of the base foundation and the minimum of 95 percent of the maximum dry density as determined by ASTM D-698 (Standard Proctor). All fill material should be placed in layers not exceeding 12 inches in loose density as determined by ASTM D-698 (Standard Proctor). The moisture content of all fill at the time of the placement should be within 2 percent of the optimum moisture content as established by the standard.

G. All fill to be utilized at the site should be selected on the basis of its plasticity and placement of structural fill.

H. All fill placed within the upper one (1) foot of the base foundation and the minimum of 95 percent of the maximum dry density as determined by ASTM D-698 (Standard Proctor). All fill material should be placed in layers not exceeding 12 inches in loose density as determined by ASTM D-698 (Standard Proctor). The moisture content of all fill at the time of the placement should be within 2 percent of the optimum moisture content as established by the standard.

I. All fill placed within the upper one (1) foot of the base foundation and the minimum of 95 percent of the maximum dry density as determined by ASTM D-698 (Standard Proctor). All fill material should be placed in layers not exceeding 12 inches in loose density as determined by ASTM D-698 (Standard Proctor). The moisture content of all fill at the time of the placement should be within 2 percent of the optimum moisture content as established by the standard.



WET POND #1
 POND PROFILE

