

DEVELOPER'S CERTIFICATION
 I HAVE OBSERVED AND UNDERSTOOD THE EROSION CONTROL MEASURES
 DEPICTED AND DETAILED ON THIS SHEET OF THE CONSTRUCTION DOCUMENTS

SIGNATURE _____
 DATE _____

PRINT NAME AND TITLE _____

S89°54'18"E 1370.49'

S89°54'18"E 434.19'

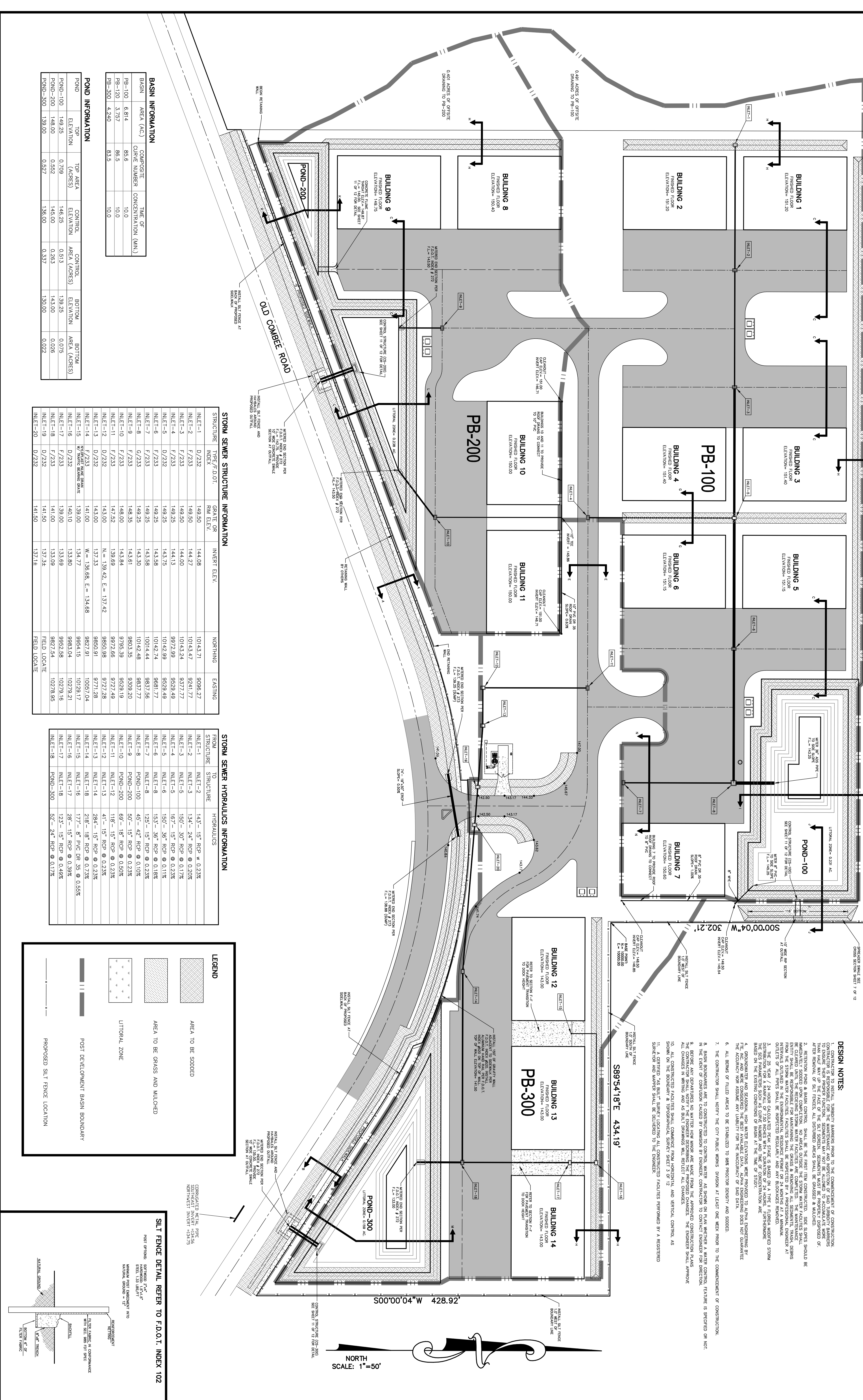
S89°54'18"E 434.19'

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DESIGN NOTES:

- CONTRACTOR TO INSTALL TURBOKIT BARRIERS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO INSURE THEIR PROPER FUNCTION. SEDIMENTS MAY NOT BE ALLOWED TO ACCUMULATE MORE THAN HALF WAY UP THE FACE OF THE Silt FENCE. SEDIMENTS MUST BE PROPERLY DISPOSED OF AND NOT REUSED FOR ANY PURPOSE.
- RETENTION POND & BASIN CONTROL SHALL BE THE FIRST ITEM CONSTRUCTED. Silt FENCES SHOULD BE IMMEDIATELY SLOTTED UPON COMPLETION. NO AREAS OUTSIDE THE STORM WATER FACILITIES SHALL BE CONSIDERED FOR CONSTRUCTION UNTIL THE STORM WATER FACILITIES HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE GRASS & REMOVAL ALL SEDIMENTS, RUBBISH, DEBRIS AND OTHER DEBRIS FROM THE STORM WATER FACILITIES. FACILITIES SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER AT THE END OF EACH MONTH AND THE RESULTS OF THE INSPECTIONS SHALL BE SUBMITTED TO THE ENGINEER. THE RESULTS SHALL BE APPROVED BY THE ENGINEER. ALL CHANGES IN PLANS AND AS BUILT DRAWINGS WILL REFLECT ALL CHANGES.
- THE 25 YEAR 7.21 HOUR CALCULATED PEAK STAGE IS BASED ON A TYPE II FLOOD WATERSHED STORM BASED ON THE EXISTING CONDITIONS OF BASIN AT THE TIME OF STUDY.
- FOUNDATION AND SEASONAL HIGH WATER ELEVATIONS WERE PROVIDED TO AGRICULTURAL ENGINEERING BY THE CLIENT. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF SAID DATA.
- ALL BARRIERS OF FLEED AREAS TO BE STABILIZED TO PREVENT EROSION AND SOIL LOSS.
- THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS DIVISION AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- BASIN BOUNDARIES ARE TO BE CONSTRUCTED TO CONTROL WATER AS SHOWN ON PLAN WHETHER A WATER CONTROL FEATURE IS SPECIFIED OR NOT. IN THE EVENT OF CONSTRUCTION CAUSED BY OMISSION BY ENGINEER, CONTRACTOR TO CONTACT ENGINEER FOR DIRECTION.
- BEFORE ANY DISTURBANCE TO EXISTING FACILITIES OR NEW FACILITIES ARE CONSTRUCTED, THE CONTRACTOR SHALL VERIFY THE ACCURACY OF SAID DATA.
- ALL CONSTRUCTED FACILITIES SHALL COMPLY WITH HORIZONTAL AND VERTICAL CONTROL AS SHOWN ON THE EXISTING FACILITIES AND TOPOGRAPHICAL SURVEY SHEET 3 OF 12.
- A CERTIFIED "AS BUILT" SURVEY LOCATING ALL CONSTRUCTED FACILITIES PERFORMED BY A REGISTERED SURVEYOR AND APPROVED SHALL BE SUBMITTED TO THE ENGINEER.



POUND INFORMATION

POUND	TOP ELEVATION	TOP AREA (ACRES)	CONTROL AREA (ACRES)	BOTTOM ELEVATION	BOTTOM AREA (ACRES)	BOTTOM AREA (ACRES)
POND-100	148.25	0.709	0.513	145.00	0.075	0.076
POND-200	148.00	0.552	0.263	143.00	0.026	0.027
POND-300	139.00	0.537	0.337	130.00	0.022	0.023

BASIN INFORMATION

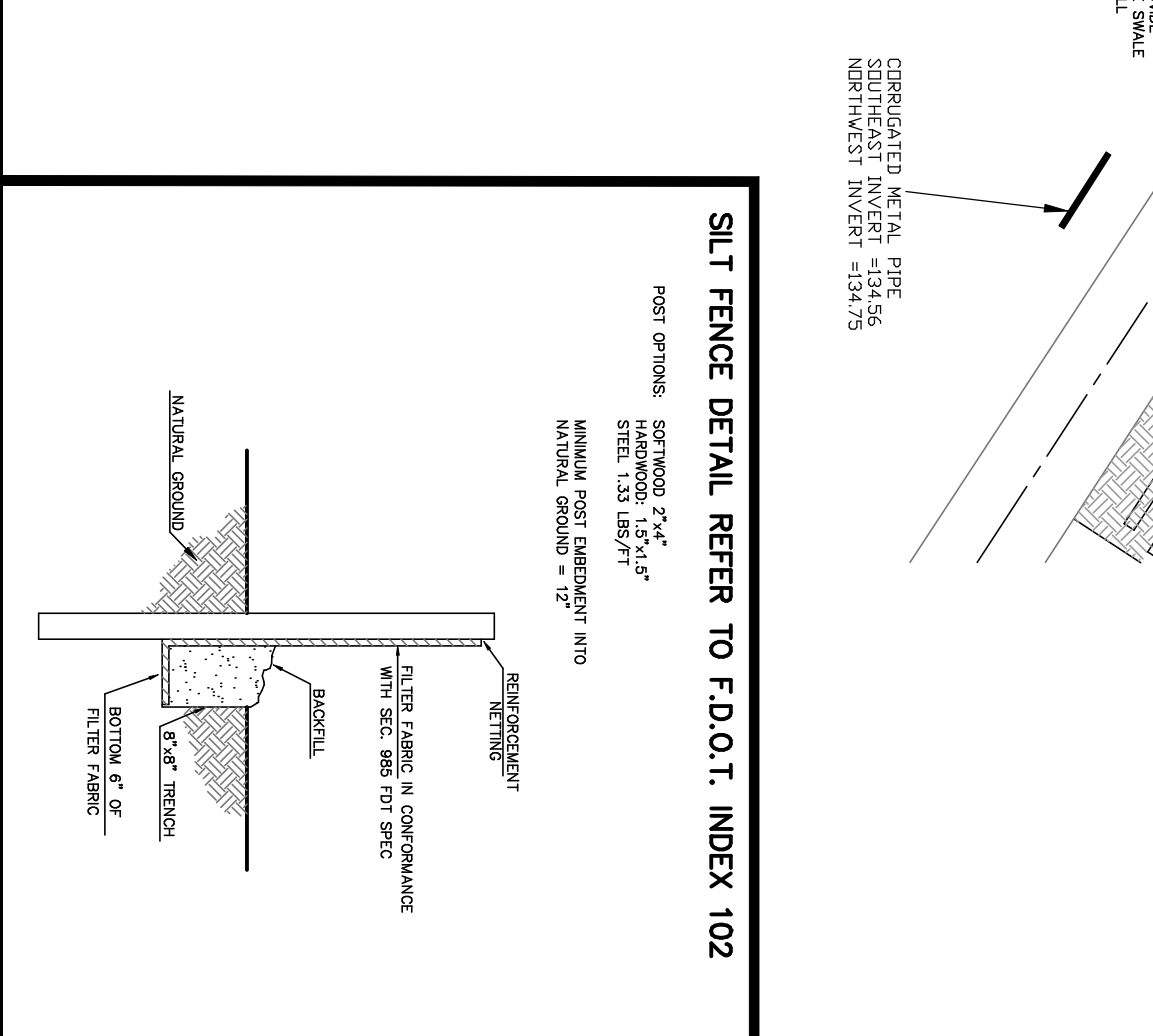
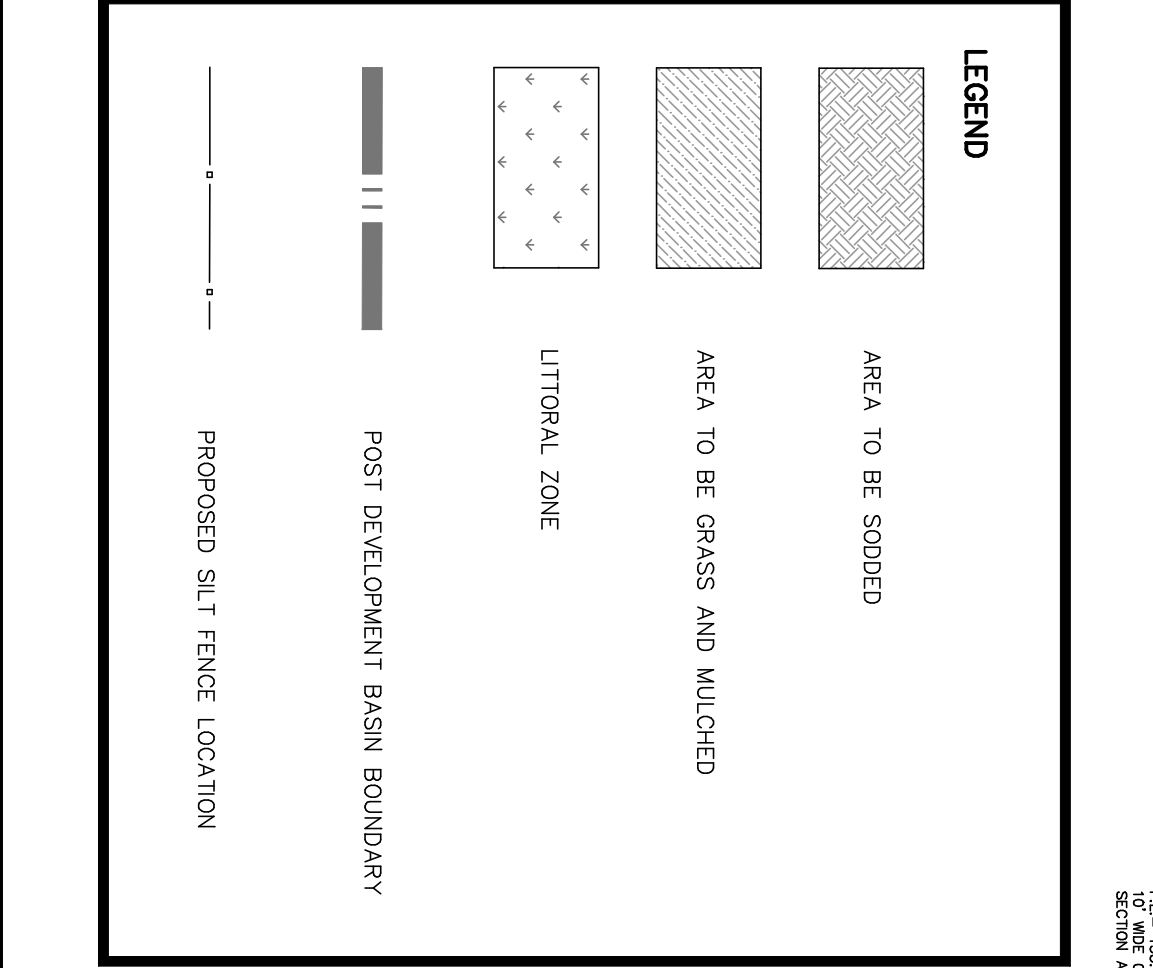
BASIN	AREA (AC.)	COMPOSITE CURVE NUMBER	TIME OF CONCENTRATION (MIN.)
PB-100	6.814	85.6	10.0
PB-120	3.757	86.5	10.0
PB-300	4.240	83.5	10.0

STORM SEWER STRUCTURE INFORMATION

STRUCTURE INDEX	TYPE/F.D.O.T.	GRAVE OR RM. ELEV.	INVERT ELEV.	NORTHING	EASTING
INLET-1	D/232	148.50	144.08	10143.71	9096.27
INLET-2	F/233	148.50	144.27	10143.47	9241.77
INLET-3	F/233	148.50	144.00	10143.24	9377.77
INLET-4	F/233	148.25	144.13	9972.99	9529.49
INLET-5	D/232	148.25	143.75	10142.99	9529.49
INLET-6	F/233	148.25	143.58	10142.74	9681.77
INLET-7	F/233	148.25	143.58	10014.44	9837.56
INLET-8	F/233	148.25	143.30	10142.48	9837.77
INLET-9	F/233	148.25	143.81	9903.35	9529.20
INLET-10	F/233	148.00	143.84	9795.39	9529.19
INLET-11	F/233	147.52	139.69	9727.49	9727.49
INLET-12	D/232	143.00	N = 139.42, E = 137.42	9850.98	9850.98
INLET-13	F/233	141.00	W = 136.68, E = 134.68	9827.91	10051.04
INLET-14	F/233	139.00	134.77	9954.15	10129.17
INLET-15	D/232	140.10	133.80	9983.04	10279.21
INLET-16	F/233	138.00	133.69	9982.58	10279.16
INLET-17	F/233	141.00	133.09	9927.54	10278.95
INLET-18	D/232	141.50	137.34	10278.95	10278.95
INLET-20	D/232	141.50	137.15	10278.95	10278.95

STORM SEWER HYDRAULICS INFORMATION

FROM STRUCTURE	TO STRUCTURE	HYDRAULICS
INLET-1	INLET-2	143' - 15" RCP @ 0.23%
INLET-2	INLET-3	134' - 24" RCP @ 0.20%
INLET-3	INLET-4	150' - 30" RCP @ 0.17%
INLET-4	INLET-5	167' - 15" RCP @ 0.23%
INLET-5	INLET-6	150' - 36" RCP @ 0.11%
INLET-6	INLET-7	153' - 36" RCP @ 0.18%
INLET-7	INLET-8	125' - 18" RCP @ 0.23%
INLET-8	POND-100	45' - 42" RCP @ 0.10%
INLET-9	POND-200	69' - 18" RCP @ 0.50%
INLET-10	POND-200	50' - 15" RCP @ 0.23%
INLET-11	POND-200	69' - 18" RCP @ 0.50%
INLET-12	POND-200	41' - 15" RCP @ 0.23%
INLET-13	POND-200	118' - 15" RCP @ 0.23%
INLET-14	POND-200	284' - 15" RCP @ 0.23%
INLET-15	POND-200	218' - 18" RCP @ 0.73%
INLET-16	POND-200	177' - 8" PVC DR @ 3.5 @ 0.58%
INLET-17	POND-200	28' - 15" RCP @ 0.23%
INLET-18	POND-300	52' - 24" RCP @ 0.17%



18826 DRAINAGE PLAN

OLD COMBEE ROAD WAREHOUSE
 2350 OLD COMBEE ROAD
 LAKELAND, FL 33805

ALPHA ENGINEERING & SURVEYING, INC.
 625 COMMERCE DRIVE, SUITE 104
 LAKELAND, FLORIDA 33813
 (941) 646-8571 FAX 646-4977

REVISION
 (1) R.M.L. 07-25-05 PER CITY OF LAKELAND COMMENT
 (2) R.M.L. 12/8/05 PER CITY OF LAKELAND COMMENT
 (3) R.M.L. 02/22/06 REVISED PER COUNTY DRIVEWAY COMMENTS
 (4) R.M.L. 08/15/06 REVISE PLAN PER CLIENT
 (5) R.M.L. 11/12/07 PER RELOCATED DRIVEWAY

DRAWN BY: **R.M.L.**
 DATE: **05/20/05**

RYAN M. LAZENBY
 P.E. #57517
 CERTIFICATE OF AUTHORIZATION #00001022

TOWNSHIP 27 S
 RANGE 24 E
 SECTION 28

SHEET NO. **5**
 OF 12 SHEETS