

STORM PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
PC2	18"	25'	1.00%	RCP
PC3	18"	11'	1.00%	RCP

STORM PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
PD2	18"	8'	1.00%	RCP

STORM PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
PA1	24"	39'	2.50%	RCP
PA2	24"	23'	0.50%	HDPE
PA3	24"	23'	0.50%	HDPE
PA4	24"	16'	0.50%	HDPE
PA5	24"	37'	0.44%	HDPE
PB1	24"	27'	2.00%	RCP
PB2	24"	106'	0.50%	HDPE
PB3	24"	44'	0.50%	HDPE
PB3.1	24"	30'	0.50%	HDPE
PB3.1.1	24"	27'	0.50%	HDPE
PB3.2	24"	62'	0.50%	HDPE
PB4	24"	153'	0.50%	HDPE
PB4.1	24"	74'	0.50%	HDPE
PB5	24"	30'	0.50%	HDPE
PB6	24"	60'	0.50%	HDPE
PB7	18"	20'	0.50%	HDPE

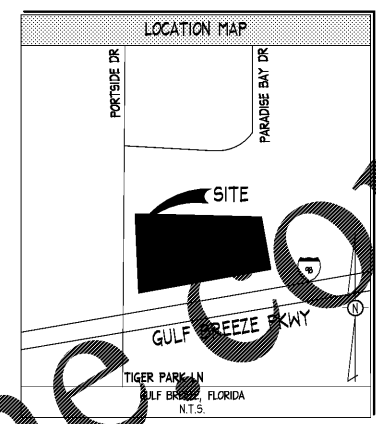
STORM STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
A0	FOOT FLARED END SECTION DETAIL 2, SHEET C04.3	16.51	13.60 (PA1)	
A1	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.3	20.90	14.56 (PA2)	14.56 (PA1)
A2	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.3	21.00	14.60 (PA3)	14.60 (PA2)
A3	FOOT TYPE 9 DOUBLE CURB INLET DETAIL 3, SHEET C04.3	20.80	15.86 (PA4)	15.86 (PA3)
A4	FOOT CURB INLET (HING) DETAIL 4, SHEET C04.3	21.15	16.74 (PA5)	16.71 (PA4)
A5	FOOT TYPE G DITCH BOTTOM INLET DETAIL 2, SHEET C04.3	20.90		16.90 (PA5)
B0	FOOT FLARED END SECTION DETAIL 1, SHEET C04.3	16.96	13.78 (PB1)	
B1	FOOT TYPE G DOUBLE DITCH BOTTOM INLET DETAIL 1, SHEET C04.3	20.85	14.93 (PB2)	14.32 (PB1)
B2	FOOT TYPE G DITCH BOTTOM INLET DETAIL 1, SHEET C04.3	20.90	15.47 (PB3)	15.47 (PB2)
B3	JUNCTION BOX DETAIL 1, SHEET C04.3	21.25	15.64 (PB4) 15.64 (PB3.1.1) 15.64 (PB3.1)	15.68 (PB3)
B3.1	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.3	21.00	15.78 (PB3.2)	15.74 (PB3.1)
B3.1.1	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.3	20.35		15.77 (PB3.1.1)
B3.2	FOOT CURB INLET (HING) DETAIL 4, SHEET C04.3	21.00		15.94 (PB3.2)
B4	FOOT TYPE G DITCH BOTTOM INLET DETAIL 1, SHEET C04.3	21.10	16.45 (PB5) 16.45 (PB4.1)	16.40 (PB4)
B4.1	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.3	20.50		16.54 (PB4.1)
B5	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.3	20.90	16.60 (PB6)	16.60 (PB5)
B6	FOOT TYPE 9 CURB INLET DETAIL 3, SHEET C04.3	20.90	16.90 (PB7)	16.90 (PB6)
B7	POURED CONCRETE TRENCH DRAIN DETAIL 3, SHEET C04.4	21.35		17.00 (PB7)

GRADING & DRAINAGE LEGEND

GRADING/DRAINAGE	LINETYPE/SYMBOL	REFERENCE
GRADE	— 000 —	SEE PLANS
SPOT ELEVATION	x 1000.00	SEE PLANS
STORM DRAIN	— — — — —	SEE PLANS
HEADWALL (HM) / FLARED END SECTION (FES)	— ◁ ▷ —	N/A
DROP INLET (GRATE)	— ○ —	DETAIL 1, SHEET C04.3
DROP INLET (GRATE AND HOOD)	— ◐ —	DETAIL 3, SHEET C04.3
JUNCTION BOX (JB) / OCS	— □ —	N/A
CATCH BASIN (SINGLE WING)	— ◁ ▷ —	N/A
CATCH BASIN (DOUBLE WING)	— ◁ ▷ ◁ ▷ —	DETAIL 4, SHEET C04.3
OUTLET CONTROL STRUCTURE	— □ —	DETAIL 1, SHEET C04.6
STORM STRUCTURE NUMBER	AS	SEE PLANS

STORM STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
D1	CONNECT TO EXISTING 18" RCP	18.62	15.52 (PD2)	
D2	PIPE END	17.53		15.60 (PB1)

STORM STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	RIM ELEVATION	INVERT IN	INVERT OUT
C1	DOG LEG CONNECTION BOX OVER EXISTING PIPE	21.00	14.56 (PA2)	14.56 (PA1)
C2	JUNCTION BOX DETAIL 1, SHEET C04.3	21.25	15.38 (PC3)	14.40 (PC2)
C3	OUTLET CONTROL STRUCTURE SHEET C04.5, DETAIL 1	21.15		15.50 (PC3)



GRADING & DRAINAGE NOTES

- SEE LANDSCAPE PLAN FOR REQUIRED TREES AND GROUND COVER.
- SLOPE OF SURFACE GRADE SHALL BE A MINIMUM OF 1.00%.
- MINIMUM CUT OF FILL SLOPES IS 3:1V:1H.
- THE CONTRACTOR SHALL PROVIDE CLEAN, SUITABLE MATERIAL FOR REQUIRED FILL. SHOULD A SUFFICIENT QUANTITY OF SUITABLE MATERIAL NOT BE AVAILABLE FROM THE REQUIRED EXCAVATION ON THE SITE.
- ALL FILL SHOULD BE PLACED IN THIN HORIZONTAL LOOSE LIFTS (MAXIMUM 4-INCH) AND COMPACTED TO AT LEAST 90 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE UPPER 8 INCHES OF SOIL BENEATH PAVEMENTS AND SLAB-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 100 PERCENT. CONTRACTOR MUST BE CERTIFIED BY A GEORGIA REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF PAVEMENTS, CURBS, SIDEWALKS OR FOOTINGS OF ANY TYPE.
- DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE FULLY CONSTRUCTED AND OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- LENGTH OF RIP-RAP PADS AT PIPE OUTLET STRUCTURES TO BE A MINIMUM LENGTH OF (A) SIX TIMES THE DIAMETER OF THE PIPE.
- JURISDICTIONAL LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.
- SEE SHEET C01.1 FOR GENERAL NOTES.

BUILDING AREA NOTES

- MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION. I.E. IN TIMES OF RAIN OR FLOOD, ROADS SHALL BE PASSABLE TO EMERGENCY VEHICLES BY BEING PAVED OR HAVING A CRUSHED STONE BASE ETC. WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO BUILDINGS HAVING SPRINKLER OR STAMPING SYSTEMS SHALL BE TO WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (NFPA 141 3-1).
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS AROUND BUILDING. INSTALL FRENCH DRAIN IN LANDSCAPED AREAS ADJACENT TO BUILDING AND CONNECT TO DRAINAGE SYSTEM.
- SEE SHEET C01.1 FOR GENERAL NOTES.

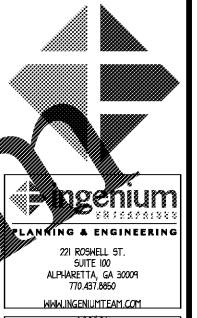
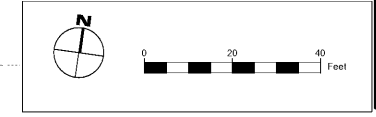
HYDROLOGY STATEMENT

PLEASE SEE HYDROLOGY REPORT BY INGENIUM ENTERPRISES DATED 11/20/08.

CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

24-HOUR CONTACT:
MR. CHUNNI TAI
(562) 841-0538



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JAMES D. NEFF, PE ON THE DATE ADJACENT TO THE SEAL.
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STATE OF FLORIDA
AUTHORIZATION NUMBER
8370
PLANS PREPARED BY INGENIUM ENTERPRISES FORMERLY GRIMALD CRAWFORD

PANDA EXPRESS/CT PLAZA
3668 GULF BREEZE PARKWAY
GULF BREEZE, FLORIDA



CLIENT:
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1120 N. TOWN CENTER DR., SUITE 150
LAS VEGAS, NV 89144
PHONE: (626) 799-8989

REVISION HISTORY	
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PROJ # 170056
DWG NAME 170056 C05.DWG
ISSUE DATE 11/2/2008
PROJ MGR EF

GRADING & DRAINAGE PLAN
C05.0
SHEET NUMBER

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