

CURVE	RADIUS	LENGTH	DELTA	CHORD	CH. BEARING
C-1	1132.67'	428.41'	21°40'16"	425.86'	S 86°03'56"W
C-2	1132.67'	273.52'	13°50'09"	272.85'	S 68°18'43"W

COURSE	BEARING	DISTANCE
L-1	N 02°28'59"E	9.16'
L-2	N 02°14'44"E	29.19'
L-3	N 02°29'32"E	30.09'
L-4	N 81°33'07"W	61.08'
L-5	N 21°04'18"W	57.63'
L-6	N 02°03'51"W	179.66'
L-7	N 10°54'33"W	224.56'
L-8	N 10°25'24"W	142.90'
L-9	N 01°49'20"E	111.51'
L-10	N 09°29'23"E	138.88'
L-11	N 87°05'29"W	70.26'
L-12	N 51°03'35"W	139.21'
L-13	N 35°39'49"W	113.66'

Site Data

PIN: 09699 00 81 1431
Parcel: 005537

Address: Old US 1

Owner: Michael & Amanda Gress
56 Weaver Trail
New Hill, NC 27562
919 429 2699

Watershed: Cape Fear (Jordan Lake)
Acreage: 30.4
Zone: Light Industrial

- General Notes:**
- Boundary information from Benton W. Dewar and Associates Holly Springs, NC
 - Site development will be according to Chatham County Stormwater Ordinance.
 - Driveway connection to Old US 1 (NCSR 1101) shall be according to NC Department of Transportation driveway permit.
 - Contractor shall locate all existing utilities prior to construction.

VELOCITY DISSIPATOR SCHEDULE

Pipe	V-10 Exit (Fps)	Dissipator			Class	DSO (In)
		Length (Ft)	Width (Ft)	Depth (In)		
P-1	9.5	8	4	22	B	6
P-2	6.0	8	4	22	B	6
P-10	10.5	20	8	22	B	6
Pond	5.5	12	6	22	B	6

PIPE DATA

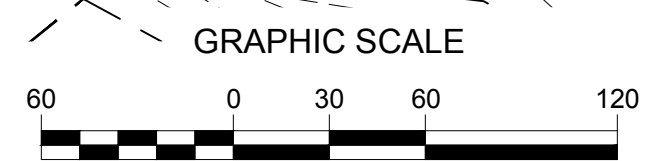
Pipe	From	To	Q-10 from Inlet (cfs)	Q-10 Total in Pipe (cfs)	Material	Diameter (Inches)	Length (Feet)	Slope (%)	Capacity (cfs)
P-1	FES	FES	2.9	2.9	RCP	15	64.00	5.47	15.1
P-2	FES	FES	6.2	6.2	RCP/HDPE	15	210.00	1.00	6.5
P-3	A	B	4.9	4.9	RCP/HDPE	15	134.65	4.60	13.9
P-4	B	C	4.9	9.8	RCP/HDPE	15	236.11	2.30	9.8
P-5	C	D	4.5	4.5	RCP/HDPE	15	173.42	0.68	4.9
P-6	D	FES	4.8	9.3	RCP/HDPE	15	133.15	2.10	9.4
P-7	E	F	4.3	4.3	RCP/HDPE	15	175.28	1.08	6.7
P-8	F	G	4.3	17.9	RCP	24	188.57	2.14	33.2
P-9	G	H	8.2	35.9	RCP	24	196.23	4.08	45.8
P-10	H	FES	1.7	37.6	RCP	30	48.00	1.25	46.0

INLET DATA

Inlet	Type	Station	Drainage Area (Ac)	C	Q-10 to Inlet (Cfs)	Q-100 to Inlet (Cfs)	Invert In	Invert Out	Top
A	VI		0.58	0.91	4.0	4.9		265.70	269.20
B	VI		0.57	0.92	4.0	4.9	259.50	259.40	265.50
C	VI		0.59	0.82	3.7	4.5		262.00	265.50
D	VI		0.65	0.80	4.0	4.8	261.00	260.90	264.50
E	VI		0.50	0.92	3.5	4.3		260.00	263.50
F	VI		0.50	0.92	3.5	4.3	258.10both	258.00	262.00
G	VI		0.97	0.91	6.7	8.2	253.97both	252.50	259.00
H	VI		0.20	0.90	1.4	1.7	244.50	243.00	249.50
P-1	FES		0.42	0.45	1.4	1.8	261.50	258.00	
P-2	FES		1.67	0.40	5.1	6.2	264.10	262.00	

DITCH LEGEND

--- NORTH AMERICAN GREEN SC-250 LINING



EXISTING CONDITION PLAN

JOB NO. ?

DESIGN: ARK
DRAWN: MAT
CHECKED: ARK
SCALE: 1" = 60'
FILE: Gress Storage.dwg

REVISIONS:

DIEHL & PHILLIPS, P.A.
CONSULTING ENGINEERS - LIC. NO. C-00465
1500 Piney Plains Rd., Suite 200
CARY, N.C. 27518 • (919) 467-9972

D&P

GRESS STORAGE

GRADING & STORM DRAINAGE PLAN

SHEET 3 OF 10

3/19/20