

Revisions  
07/11/94 REVISIONS AS PER TOWN OF CARY  
08/01/94 REVISIONS AS PER TOWN OF CARY  
SEPT. 7, 1994 REVISIONS TO ALLOW FOR PHASE CONSTRUCTION

**FINAL APPROVED PLANS**

OWNER:  
GOODWILL CORPORATION  
104 ED SIMMONS COURT  
CARY, N.C. 27511

Project  
**BENEDUM PLACE**  
UTILITIES/ GRADING/  
EROSION CONTROL

Date  
**JUNE 29, 1994**

Scale  
**1" = 60'**

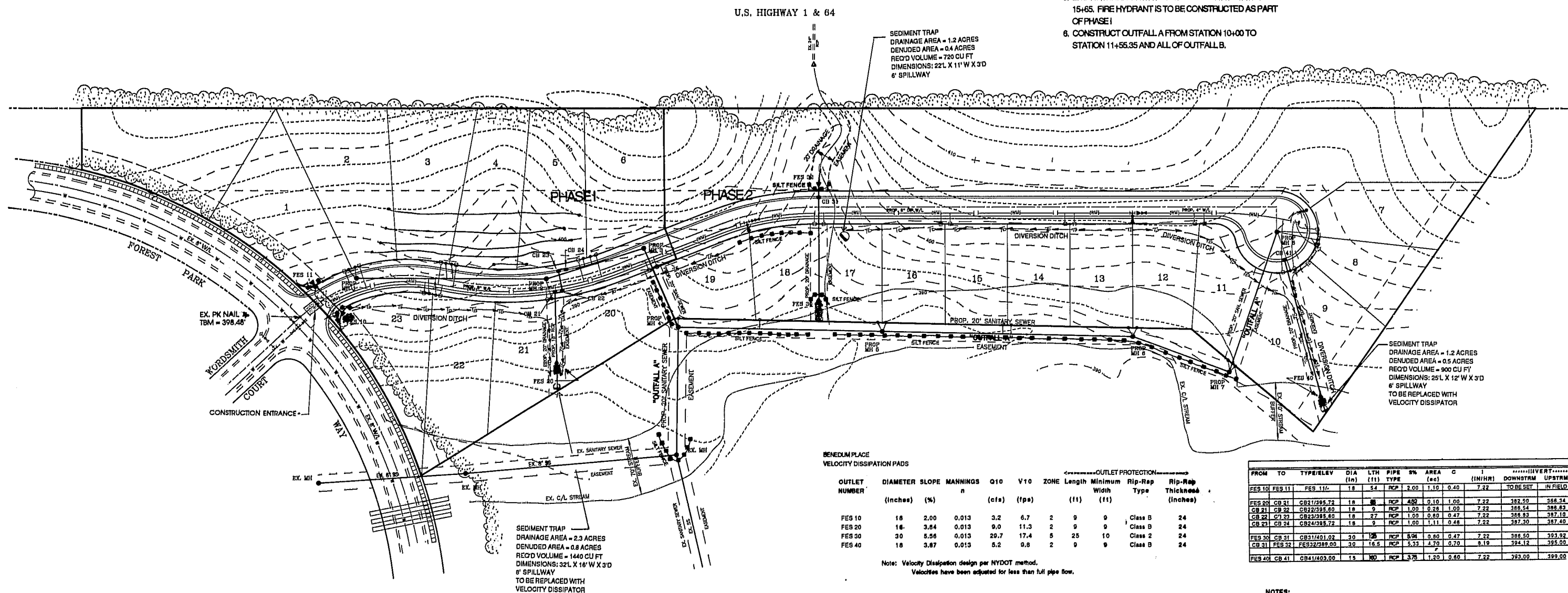
Sheet  
**2 OF 8**

**SERVICE LEGEND**

- SANITARY SEWER SERVICE
- WATER SERVICE

**PHASE I CONSTRUCTION NOTES**

1. END ASPHALT PAVING AT STATION 14+64
2. END CURB AND GUTTER AT STATION 14+64
3. BEGIN 6:1 TRANSITION SLOPE AT STATION 14+74
4. INSTALL NCDOT TYPE III BARRICADE AT STATION 14+74
5. END WATERLINE WITH PLUG AND BLOCK AT STATION 15+65. FIRE HYDRANT IS TO BE CONSTRUCTED AS PART OF PHASE I
6. CONSTRUCT OUTFALL A FROM STATION 10+00 TO STATION 11+55.35 AND ALL OF OUTFALL B.



**BENEDUM PLACE VELOCITY DISSIPATION PADS**

OUTLET NUMBER	DIAMETER (Inches)	SLOPE (%)	MANNINGS n	Q10 (cfs)	V10 (fps)	ZONE	OUTLET PROTECTION			Rip-Rap Thickness (Inches)
							Length (ft)	Minimum Width (ft)	Rip-Rap Type	
FES 10	18	2.00	0.013	3.2	6.7	2	9	9	Class B	24
FES 20	18	3.84	0.013	9.0	11.3	2	9	9	Class B	24
FES 30	30	5.58	0.013	29.7	17.4	5	25	10	Class 2	24
FES 40	18	3.87	0.013	5.2	9.8	2	9	9	Class B	24

Note: Velocity Dissipation design per NYDOT method. Velocities have been adjusted for less than full pipe flow.

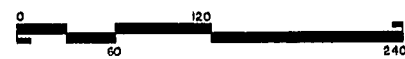
FROM	TO	TYPE/LEV	DIA (in)	LTH (ft)	PIPE TYPE	% AREA (ec)	C	I (ft)	VERT (ft)	DOWNSTRM	UPSTRM
FES 10	FES 11	FES 11C	18	54	RCP	3.00	1.16	0.49	7.32	TO BE SET	IN FIELD
FES 20	CB 21	CB21/395.72	18	9	RCP	4.92	0.16	1.00	7.22	382.50	386.34
CB 21	CB 22	CB22/395.00	18	9	RCP	1.00	0.26	1.00	7.22	386.54	386.83
CB 22	CB 23	CB23/395.80	18	27	RCP	1.00	0.60	0.47	7.22	386.82	387.10
CB 23	CB 24	CB24/385.72	18	9	RCP	1.00	1.11	0.48	7.22	387.30	387.40
FES 30	CB 31	CB31/401.02	30	16	RCP	8.04	0.80	0.47	7.22	388.50	393.92
CB 31	FES 32	FES32/389.00	30	16.5	RCP	5.33	1.70	0.70	9.19	392.12	395.00
FES 40	CB 41	CB41/403.00	18	90	RCP	3.75	1.20	0.60	7.22	393.00	395.00

**NOTES:**

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT TOWN OF CARY STANDARD SPECIFICATIONS AND DETAILS.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES.
3. INVERTS OF FES 10 AND FES 11 TO BE SET IN FIELD BY ENGINEER, MAINTAINING A MINIMUM SLOPE OF 2.0%.
4. TOPOGRAPHIC INFORMATION FROM TOWN OF CARY TOPO MAPS.
5. THIS SUBDIVISION IS A PORTION OF WELLINGTON PUD.
6. PROPOSED UTILITIES SUBJECT TO CHANGE UPON FIELD VERIFICATION.
7. ALL ZONING AND LAND USE INFORMATION WAS OBTAINED FROM APPROVED MASTER PLAN DATED 06/20/88.
8. THIS SITE DOES NOT FALL WITHIN THE 100 YR. FLOOD PLAIN.

**SEDIMENT CONTROL LEGEND**

- SEDIMENT BASIN
- TEMPORARY DIVERSION DITCH
- CONSTRUCTION ENTRANCE
- SEDIMENT TRAP
- VELOCITY DISSIPATOR
- SILT FENCE
- PERMANENT DIVERSION DITCH



SCALE: 1" = 60'

TOTAL DENUDE AREA 2.02 AC