

SANITARY SEWER CALCULATIONS
 ASSUME ALL COMMERCIAL USES OR LESS
 20,000 SF X 0.12 GPD/SF=2400 GPD

PRE-DEVELOPMENT TOTAL SITE RUNOFF - 5.05 CFS
 POST-DEVELOPMENT TOTAL SITE RUNOFF - 12.3 CFS

STORM DRAIN CALCULATIONS

STRUCTURE	DRAINAGE AREA	C PRE	C POST	I	Q10 PRE	Q10 POST	QTOTAL POST	PIPE OUT
CB1	0.18 AC	0.35	0.85	7.22	0.45 CFS	1.10 CFS	1.10 CFS	96 LF 15" RCP @ 02.08%
CB2	0.19 AC	0.35	0.85	7.22	0.48 CFS	1.16 CFS	7.76 CFS*	48 LF 15" RCP @ 07.61%
CB3	0.28 AC	0.35	0.85	7.22	0.71 CFS	1.72 CFS	1.72 CFS	89 LF 15" RCP @ 07.87%
CB4	0.32 AC	0.35	0.85	7.22	0.81 CFS	1.96 CFS	11.55 CFS	EXISTING 18" RCP @ 4.1%

* EXISTING PIPE AT CB 2 HAS EXISTING FLOW OF 5.50 CFS
 15" RCP WITH Hw/D=1.5 CAN CARRY 6 CFS
 18" RCP WITH Hw/D=1.5 CAN CARRY 10 CFS

LEGEND

- ⊕ EXISTING FIRE HYDRANT (FH)
- ⊕ EXISTING WATER VALVE (WV)
- ⊕ EXISTING MANHOLE (MH)
- ⊕ EXISTING CATCH BASIN (CB)
- ▭ PROPOSED CATCH BASIN (CB)
- ▭ EXISTING FLARED END SECTION (FES)
- ▭ PROPOSED FLARED END SECTION (FES)

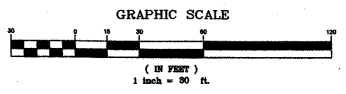
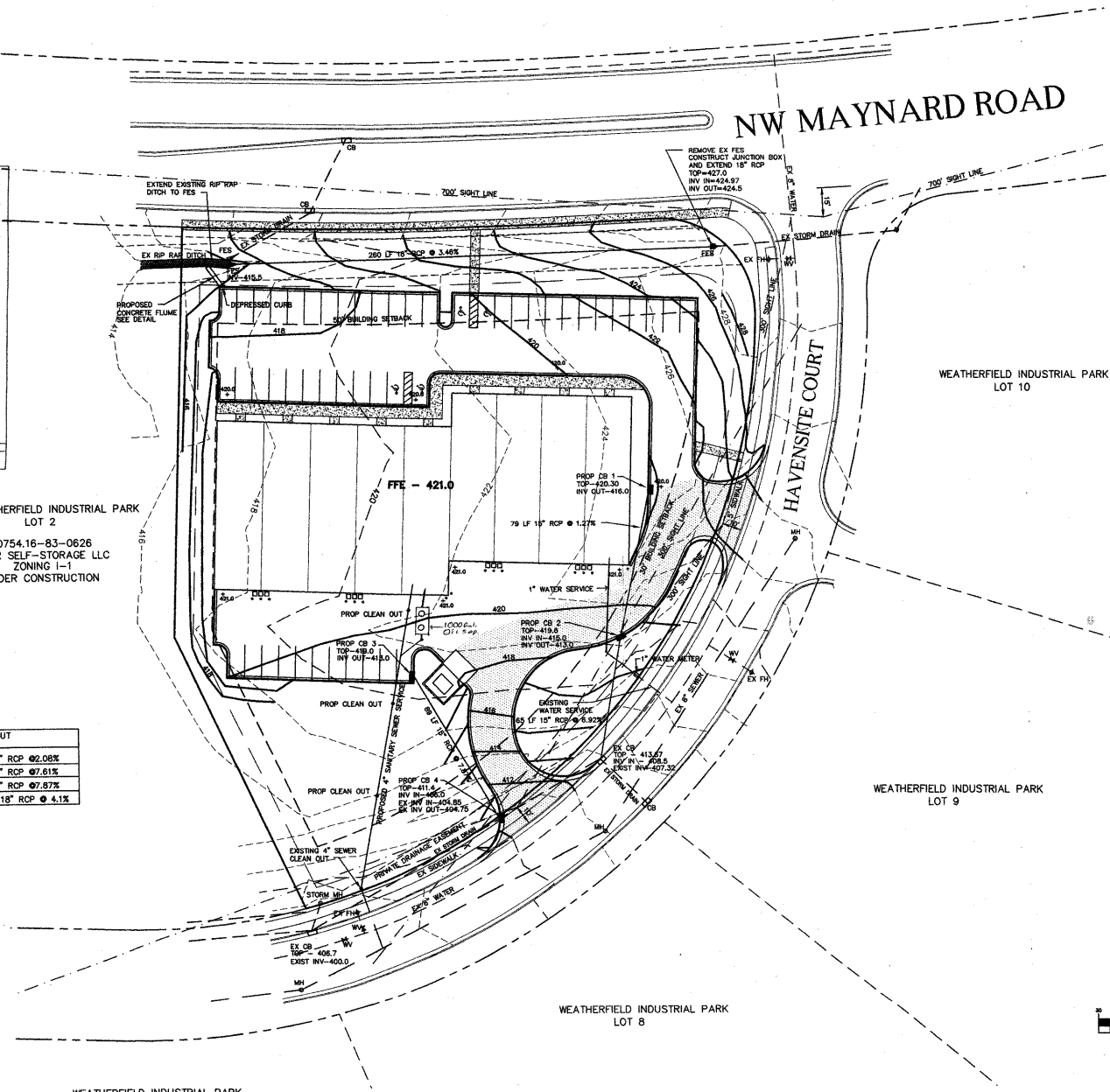
WEATHERFIELD INDUSTRIAL PARK
 LOT 2
 0754.16-83-0626
 JDR SELF-STORAGE LLC
 ZONING I-1
 UNDER CONSTRUCTION

WEATHERFIELD INDUSTRIAL PARK
 LOT 7

WEATHERFIELD INDUSTRIAL PARK
 LOT 8

WEATHERFIELD INDUSTRIAL PARK
 LOT 9

WEATHERFIELD INDUSTRIAL PARK
 LOT 10



03-SF-028
 APPROVED
 TOWN OF CARY
 Approved by: [Signature] Date: 4/11/03
 Planning: [Signature] Date: 4/11/03
 Engineering: [Signature] Date: 4/24/03



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SCALE:	DATE:
1" = 30'	8/27/00
FILE NO:	CHECKED BY:
MASTERREV	JAE, JR.

PROPERTY OF
LOT 1 WEATHERFIELD INDUSTRIAL PARK
 NORTH CAROLINA
 GRADING AND UTILITY PLAN