

# CONSTRUCTION PLANS

# CARLTON POINTE SUBDIVISION

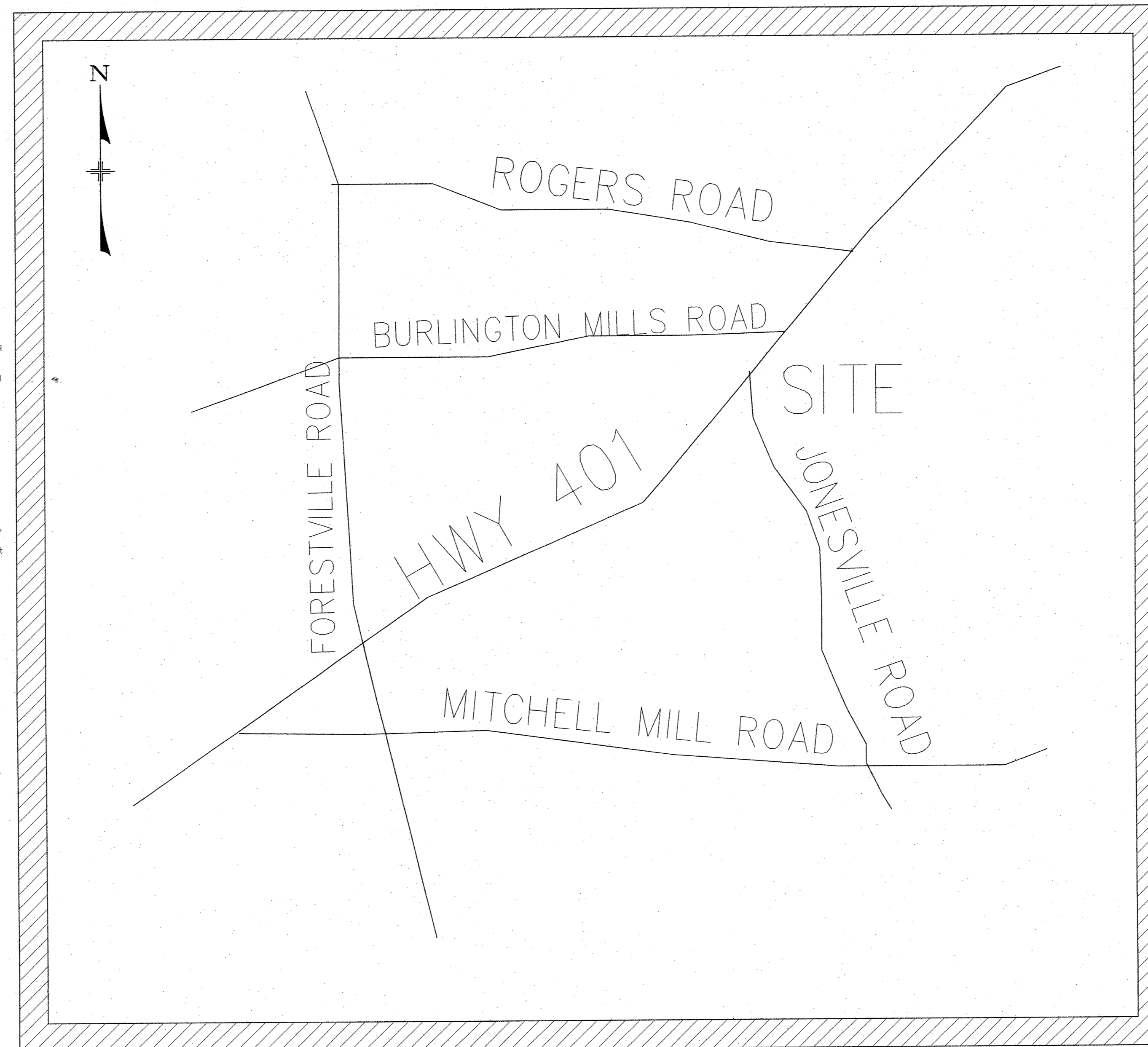
## PHASES 1, 2 and 3

**ROLESVILLE, NORTH CAROLINA  
WAKE COUNTY**

SHEET INDEX

### SPECIAL CONDITIONS

- SPECIAL USE PERMIT NUMBER SUP 04-02  
 DATE: Approved 5/3/04 Pending Condition Number 23  
 PROPERTY DESCRIPTION: Condo/Coop Subdivision  
 PZN NUMBER: 175811-56-6007 and 175804-34-3431  
 ZONING/ACREAGE: R & PUD  
 SPECIAL USE PERMIT PROVISIONS:
- The subdivision shall be in full compliance with Chapters 91, 92, and 93 of the Town of Rolesville Code of Ordinances unless otherwise noted within the special conditions of this Special Use Permit.
  - Permitted uses shall be limited to single-family residential, public or private open space, and public or private recreation.
  - Before the first Certificate of Occupancy is issued, the developer shall make a payment of \$50,000 for the purpose of installing a traffic signal at the intersection of Jonesville Road and US 401.
  - Before the first Certificate of Occupancy is issued, the developer shall install a left and through directional and right directional turn lane for the northbound traffic on Jonesville Road and any other road improvements indicated by the project's Traffic Impact Analysis by Kinley Horn Associates.
  - Pending approval from the NCDOT and before the first Certificate of Occupancy is issued, the developer shall construct a two (2) lane twenty (20') foot wide ribbon pavement section from the property line to US 401.
  - Before the first Certificate of Occupancy is issued, the developer shall submit renderings of the distinctive uniform sign plan to be approved by the Town of Rolesville staff.
  - The two (2) approved "lot" lots within the subdivision shall have materials seen in the submitted lot lot Exhibits 1 and 2. The lot lots shall be developed before the first Certificate of Occupancy is issued.
  - Each garage and driveway shall contain a minimum of two (2) spaces.
  - The minimum heated livable home space for each dwelling shall be a minimum of:
    - 1,350 square feet for homes on Type I lots and
    - 1,950 square feet for homes on Type II lots.
  - Home elevations provided within this development shall be generally consistent in style and appearance with the provided illustrative home elevations (35' and 50' Series Home Elevation Exhibits). Furthermore, homes shall adhere to the following design criteria:
    - Entries: All homes shall have front porches and/or covered stoops at the front entry. Porches and stoops shall be covered with pitched roof elements and provide a minimum depth of four (4) feet.
    - Building Materials: Front facades for each plan elevation shall provide for a mix stone brick, vinyl shake and /or vinyl siding.
    - Garages: Must contain window elements. For garage doors and wide enough to accommodate two (2) cars inside the garage with two (2) separate doors, and two (2) cars in the driveway.
    - Colors: Primary colors shall consist of natural earthen tones. Accents and details consist of white, off-white or light colors. Painted front door and painted shutter colors shall match.
    - Placement: Entries and front facades shall be located on lots so that they create a visual interest, variety and appeal from the street. Varied setbacks and protrusions of the front facade may be provided to give variety along the streetscape. Identical home elevations shall be prohibited adjacent to one another.
    - Roofs: Primary roof materials shall consist of gray or black shingles; secondary roofs may consist of either identical shingles or a standing seam metal/aluminum material with (copper, gray, black, tan, brown or green finish).
    - Facades and Details: At least four (4) of the following elements shall be provided with each front facade: differentiated materials and colors; varied roof lines and pitches; dormers; window mullions; bay windows; patterned stone or brick work; planted foundation beds; pre-cast quoins; keystones; pre-cast accents; standing seam roofs; decorative arches and shutters.
  - Prior to building permit submittal, each home elevation shall be reviewed by an Architectural Review Committee (ARC). The committee shall review the proposed plans to ensure the above design guidelines are met. The developer and/or Homeowner's Association will govern the ARC.
  - Before the Certificate of Occupancies are issued for each individual lot, abutting street trees and front yard lot trees (to meet Town standards) shall be installed. Street trees and lot trees adjacent to bike paths along Streets A and B shall be spaced in a manner that gives a uniform appearance and consistency with street trees on the opposite side of the street.
  - Open space areas indicated in the plan shall be preserved to maintain very steep slopes, significant tree cover, and streams. Grading for infrastructure will be permitted.
  - All greenway easements shall be deemed "public" be a minimum of twenty (20') feet in width, and shall be maintained by the Homeowner's Association. The easements shall be completed before the first Certificate of Occupancy is issued for each phase. Any trails constructed for credit or reimbursement by the Town shall be constructed of impervious surface approved by town staff.
  - Before the first Certificate of Occupancy is issued, the developer, as offered, shall make a contribution in the amount of \$50,000 for the purpose of developing the Town Park Facilities or other nearby recreational amenities.
  - Before final plat approval for each phase, the developer shall install signage and pavement markings, approved by Town staff, at all locations where greenway easements cross all streets so as to assure safety at these locations.
  - Rocky Falls Branch Creek (along the eastern property line) shall have a minimum of a one hundred (100') foot buffer measured on each side of the stream.
  - The developer shall make payment in lieu of the active usability ordinance requirements in the amount of \$51,925.
    - \$17,308 shall be paid before the final plat is recorded on Phase I.
    - \$17,308 shall be paid before the final plat is recorded on Phase II.
    - \$17,308 shall be paid before the final plat is recorded on Phase III.
  - An eight (8') foot wide multi-purpose asphalt bike path shall be constructed along Jonesville Road. This path shall be constructed prior to the final Certificate of Occupancy of Phase I, or the 50th Certificate of Occupancy, whichever occurs first.
  - Sidewalks shall be provided on both sides of the streets including cul-de-sacs unless a bike path is noted to be built. The sidewalks shall be installed on each lot before the first Certificate of Occupancy is issued.
  - Where sidewalks and bike paths front the dwelling units, front walkways shall connect to sidewalks/driveways.
  - Before the Final Plat is approved, the developer shall submit to the Town the recorded covenants of the subdivision.
  - The site shall be "select graded" rather than mass graded. Grading shall occur only for the right-of-way for streets, utility easements, slope easements and the front setback envelope.
  - The development shall be consistent with the plans approved by the Town Board of Commissioners on xx, 2004.
  - The development shall provide at least three (3) pedestrian connections to the public greenway easement indicated in condition #13.
  - The minimum and average lot sizes for single-family residential uses shall be:
    - Type I Lots - 6,600 minimum square feet with an average of no less than 7,200 sq. ft.; and
    - Type II Lots - 8,400 minimum square feet with an average of no less than 10,000 sq. ft.
  - The two (2) street connections to the stub outlets located within the Village of Rolesville shall be constructed within twelve (12) months after the approval from the Division of Water Quality concerning the stream crossings.
  - The development shall have no more than three hundred (300) lots.



VICINITY MAP  
NOT TO SCALE

Development Owner:

CARLTON GROUP OF NORTH CAROLINA, LLC  
 20 SQUADRON BOULEVARD, SUITE 120  
 NEW CITY, NEW YORK 10956  
 845-638-9300

*Phase Plan  
Revision  
Approved 4/19/07  
BLS*

PUBLIC  
Sewer Collection/Retention System

The City of Raleigh consents to the connection and extension of the City's public sewer system to the site plan. The exchange and construction methods used for the project shall conform to the City's Utility Handbook, standards and specifications.

City of Raleigh  
Public Utilities Department Permit # 72953  
Construction Approval 6/17/07  
Date 9/15/07

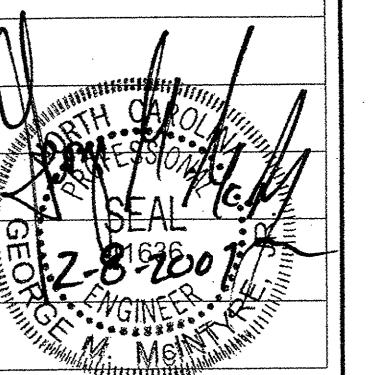
PUBLIC  
Water Distribution/Retention System

The City of Raleigh consents to the connection and extension of the City's public water system to the site plan. The exchange and construction methods used for the project shall conform to the City's Utility Handbook, standards and specifications.

City of Raleigh  
Public Utilities Department Permit # 8246  
Construction Approval 6/17/07  
Date 9/15/07

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C-1	OVERALL SITE LAYOUT PLAN
C-1A	ENLARGED SITE PLAN - NORTH
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C-1C	ENLARGED SITE PLAN - SOUTHEAST
C-2	ENLARGED SANITARY SEWER PLAN - NORTH
C-2A	ENLARGED SANITARY SEWER PLAN - SOUTHWEST
C-2B	ENLARGED SANITARY SEWER PLAN - SOUTHEAST
C-3	ENLARGED WATER DISTRIBUTION PLAN - NORTH
C-3A	ENLARGED WATER DISTRIBUTION PLAN - SOUTHWEST
C-3B	ENLARGED WATER DISTRIBUTION PLAN - SOUTHEAST
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D-5	EROSION CONTROL DETAILS
D-6	TRAFFIC ISLAND DETAILS
D-7	AERIAL CROSSING DETAILS

McINTYRE & ASSOCIATES, PLLC  
 4932-B WINDY HILL DR.  
 RALEIGH, NC 27609





### GUTTERS/PREAD CALCULATION TABLE

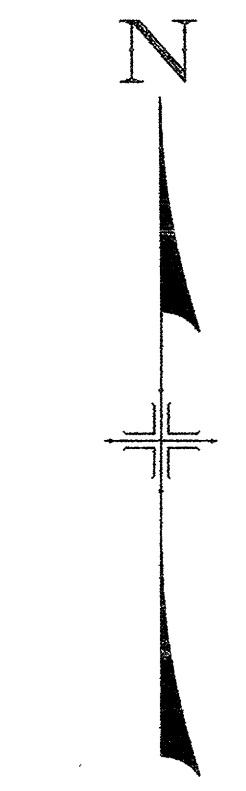
STRUCTURE	DRAINAGE AREA (acres)	S	L	Q	Q <sub>10</sub>	Q <sub>5</sub>	Q <sub>2</sub>	Q <sub>1</sub>	ROAD SLOPE
CRB1	0.8	0.6	5.67	2.72	6.5	9.12	12.54	15.5	1
CRB2	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB3	0.25	0.75	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB4	0.3	0.75	5.67	0.76	6.5	8.12	10.5	13.1	1
CRB5	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB6	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB7	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB8	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB9	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB10	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB11	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB12	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB13	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB14	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB15	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB16	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB17	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB18	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB19	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB20	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB21	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB22	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB23	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB24	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB25	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB26	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB27	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB28	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB29	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB30	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB31	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB32	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB33	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB34	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB35	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB36	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB37	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB38	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB39	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB40	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB41	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB42	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB43	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB44	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB45	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB46	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB47	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB48	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB49	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB50	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB51	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB52	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB53	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB54	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB55	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB56	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB57	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB58	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB59	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB60	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB61	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB62	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB63	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB64	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB65	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB66	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB67	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB68	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB69	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB70	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB71	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB72	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB73	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB74	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB75	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB76	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB77	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB78	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB79	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB80	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB81	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB82	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB83	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB84	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB85	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB86	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB87	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB88	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB89	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB90	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB91	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB92	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1
CRB93	0.4	0.6	5.67	1.31	6.5	9.62	12.5	15.5	1
CRB94	0.58	0.6	5.67	1.93	6.5	13.2	17.5	22.5	1
CRB95	0.67	0.6	5.67	2.28	6.5	15.1	19.5	24.5	1
CRB96	1.34	0.3	5.67	4.27	6.5	28.5	37.5	46.5	1
CRB97	1.54	0.3	5.67	4.82	6.5	32.5	42.5	52.5	1
CRB98	0.4	0.4	5.67	0.63	6.5	8.46	11.1	14.1	1
CRB99	0.25	0.7	5.67	0.63	6.5	7.42	9.5	12.1	1
CRB100	0.32	0.6	5.67	1.18	6.5	8.46	11.1	14.1	1

\* BASED ON DOUBLE CURB INLETS

### STORM DRAINAGE CALCULATION TABLE

FROM	TO	DRAINAGE AREA (acres)	MANNING ROUGHEN COEFF.	RUNOFF COEFF.	CA (acres)	SUM CA (acres)	% TO STA.	TOTAL TO STA.	RAINFALL INTENSITY (in/hr)	RUNOFF (cfs)	CONTRIBUTOR INFLOW (cfs)	TOTAL FLOW (cfs)	PIPE SIZE (in)	PIPE SLOPE (ft/ft)	FLOW VELOCITY (ft/s)	INLET TYPE
CRB1	CRB2	0.8	0.013	0.6	0.48	0.48	5	5	7.5	3.6	0	3.6	15	0.005	3.72	DOUBLE
CRB2	CRB3	0.34	0.013	0.75	0.255	0.735	5	5	7.5	5.125	0	5.125	18	0.005	4.202	SINGLE
CRB3	CRB4	0.25	0.013	0.75	0.1875	0.9225	5	5	7.5	4.663	0	4.663	15	0.005	3.72	SINGLE
CRB4	CRB5	0.3	0.013	0.75	0.225	1.1475	5	5	7.5	5.038	0	5.038	18	0.005	4.202	SINGLE
CRB5	CRB6	0.4	0.013	0.6	0.24	1.3875	5	5	7.5	4.898	0	4.898	18	0.005	4.202	SINGLE
CRB6	CRB7	0.58	0.013	0.6	0.348	1.7355	5	5	7.5	7.508	1.32	8.828	24	0.005	5.095	SINGLE
CRB7	CRB8	0.67	0.013	0.6	0.402	2.1375	5	5	7.5	10.5104	5.92	16.4304	30	0.005	5.907	SINGLE
CRB8	CRB9	1.34	0.013	0.5	0.67	2.8075	5	5	7.5	16.294	5.82	22.114	36	0.005	5.907	DOUBLE
CRB9	CRB10	1.54	0.013	0.5	0.77	3.5775	5	5	7.5	18.694	16.55	35.244	36	0.005	5.907	DOUBLE
CRB10	CRB11	0.4	0.013	0.8	0.32	3.8975	5	5	7.5	16.694	16.55	33.244	36	0.005	5.907	DOUBLE
CRB11	CRB12	0.25	0.013	0.7	0.1875	4.085	5	5	7.5	13.125	0	13.125	18	0.005	3.72	SINGLE
CRB12	CRB13	0.3	0.013	0.75	0.225	4.31	5	5	7.5	13.345	0	13.345	18	0.005	3.72	SINGLE
CRB13	CRB14	0.4	0.013	0.6	0.24	4.55	5	5	7.5	13.565	2.28	15.845	18	0.005	4.202	SINGLE
CRB14	CRB15	0.58	0.013	0.6	0.348	4.9	5	5	7.5	14.017	2.28	16.297	18	0.005	4.202	SINGLE
CRB15	CRB16	0.67	0.013	0.6	0.402	5.302	5	5	7.5	14.469	4.5	18.969	24	0.005	5.095	SINGLE
CRB16	CRB17	1.34	0.013	0.5	0.67	6.0	5	5	7.5	17.222	4.5	21.722	30	0.005	5.095	SINGLE
CRB17	CRB18	1.54	0.013	0.5	0.77	6.77	5	5	7.5	18.0	13.2	31.2	36	0.005	5.095	SINGLE
CRB18	CRB19	0.4	0.013	0.8	0.32	7.0975	5	5	7.5	14.375	0	14.375	18	0.005	3.72	SINGLE
CRB19	CRB20	0.25	0.013	0.7	0.1875	7.285	5	5	7.5	14.563	0	14.563	18	0.005	3.72	SINGLE
CRB20	CRB21	0.3	0.013													

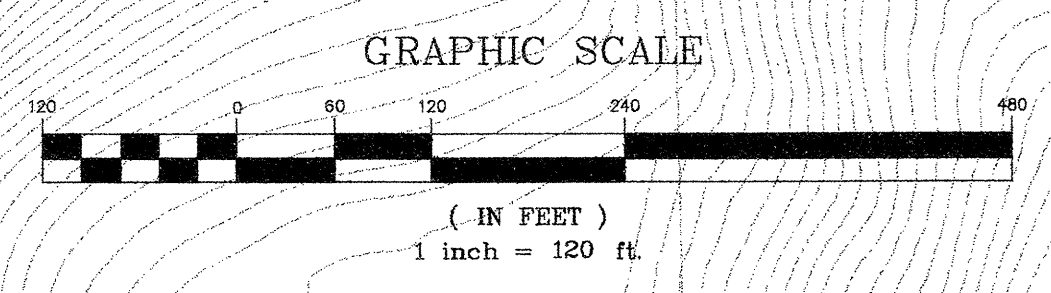




NOTES:  
 1. CONSTRUCTION OF SANITARY SEWER AND WATERLINE TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.  
 2. ALL CONSTRUCTION OF ROADS AND STORM DRAINAGE TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NC DOT STANDARDS AND SPECIFICATIONS.

**PUBLIC**  
 Water Distribution/Collection System  
 The City of Raleigh consents to the connection to the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbook standards and specifications.  
 City of Raleigh Department Permit: W/S 2886  
 Date: 9/11/05

**PUBLIC**  
 Sewer Collection System  
 The City of Raleigh consents to the connection to the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbook standards and specifications.  
 City of Raleigh Department Permit: R/S 2886  
 Date: 9/11/05



McIntyre & Associates, PLLC  
 Engineering & Land Planners  
 4932-B Wexley Hill Drive  
 Raleigh, NC 27603  
 mmcmintyre@aol.com  
 (919) 876-0145 (Office)  
 (919) 876-0699 (Fax)

CARLTON POINTE SUBDIVISION  
 EXISTING SITE CONDITIONS  
 ROLESVILLE, NC

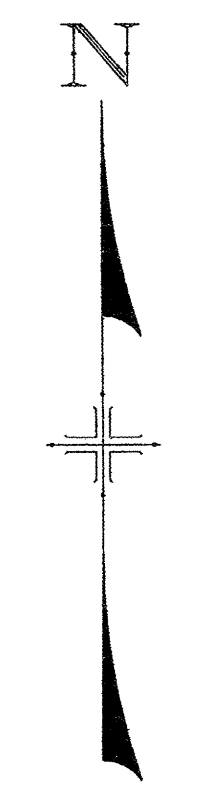
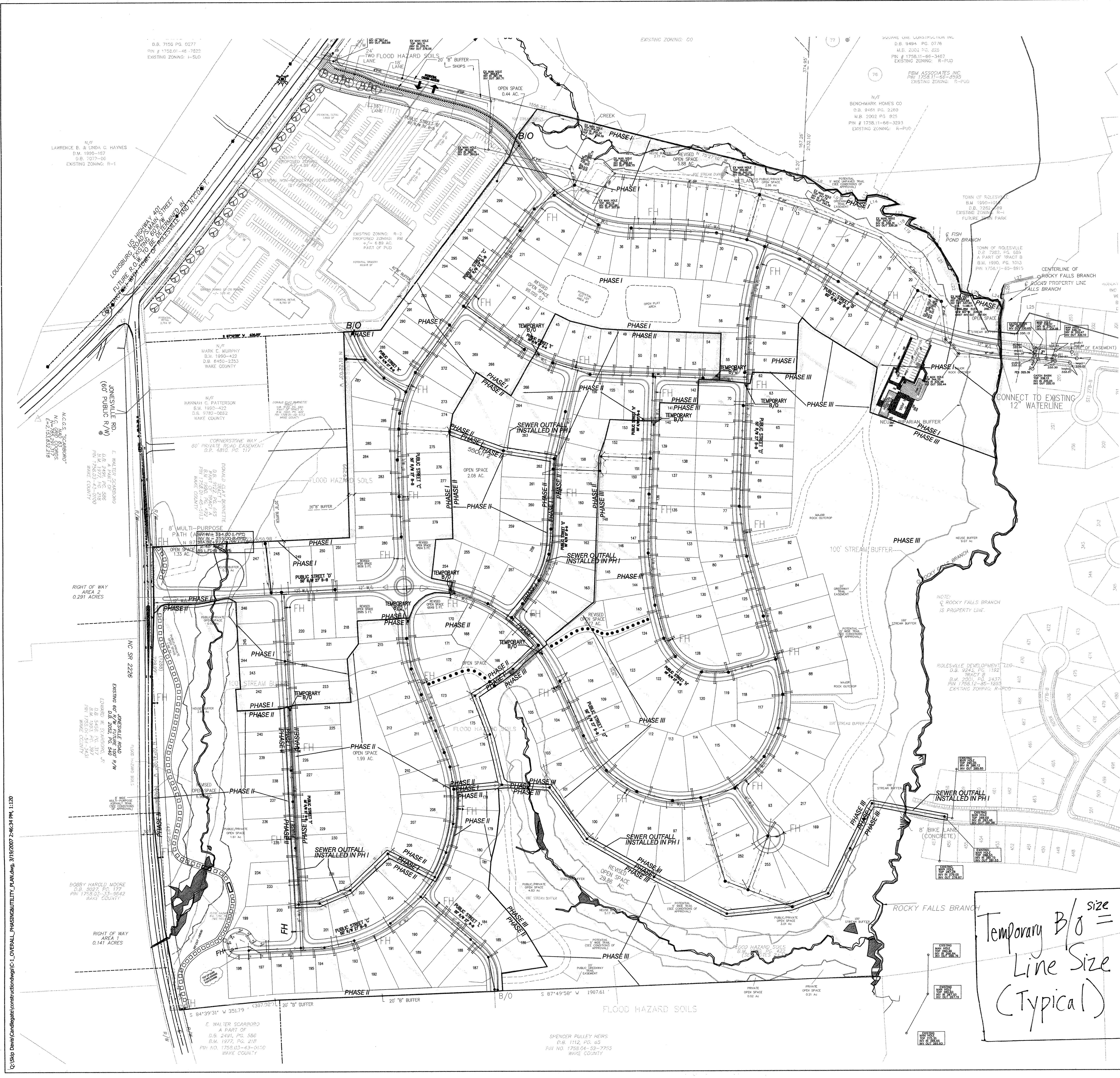
REVISIONS

NO.	DATE	DESCRIPTION

CLIENT  
 CARLTON GROUP OF NC, LLC  
 20 SQUADRON BLVD  
 NEW CITY, NEW YORK 10956  
 845-638-9300

DRAWN: DRD  
 CHECKED: GMM  
 APPROVED: GMM  
 START DATE: \_\_\_\_\_  
 JOB CODE: \_\_\_\_\_  
 DRAWING No. S-1





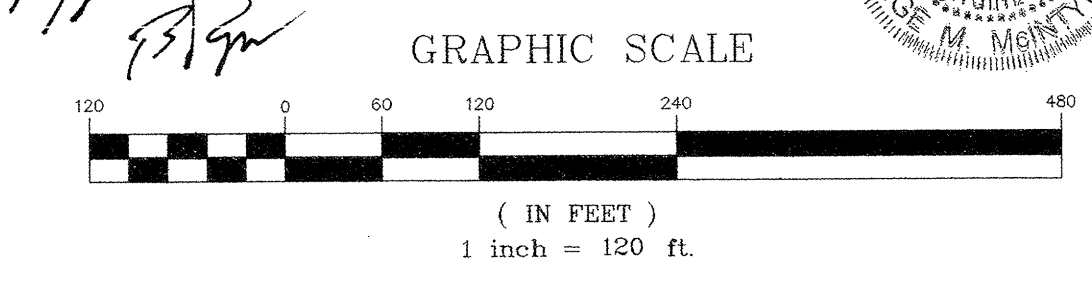
	Phase I	Phase II	Phase III
UNITS	100	104	96
LOT #'S	2-44, 55-61, 218-223, 242-251, 267-300	45-54, 142, 154-168, 170-216, 224-241, 254-266	1, 62-141, 143-153
WATER (L.F.)	6" - 0 8" - 2,200' 12" - 3,140'	6" - 0 8" - 360' 12" - 4,200'	6" - 240' 8" - 2,240' 12" - 2,320'
SEWER (L.F.)	8" - 5,600'	8" - 2,520'	8" - 3,080'
SEWER OUTFALL (L.F.)	8" - 4,100'	8" - 180'	8" - 880'
MANHOLES	71	24	27
FIRE HYDRANTS	10	13	9
BLOW-OFFS	2	1	0
TEMPORARY BLOW-OFFS	6	2	0

NOTES:  
 ALL CONSTRUCTION OF SANITARY SEWER/EXTENSION AND WATERLINE TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.  
 ALL CONSTRUCTION OF ROADS AND STORM DRAINAGE TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.

PUBLIC  
 Water Distribution/Extension System  
 The City of Raleigh consents to the connection to the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.  
 City of Raleigh  
 Public Utilities Department Permit: W-2446  
 Construction Approval: BDY 9/13/06  
 Date: \_\_\_\_\_

PUBLIC  
 Sewer Collection/Extension System  
 The City of Raleigh consents to the connection to the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.  
 City of Raleigh  
 Public Utilities Department Permit: S-2953  
 Construction Approval: BDY 9/13/06  
 Date: \_\_\_\_\_

Temporary B/O size =  
 Line Size B/O  
 (Typical)



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 Engineers, Architects, Planners  
 4325 E. Hesse Avenue  
 Raleigh, NC 27609  
 mmcmintyre@aol.com  
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 (919) 876-0699 (Fax)

CARLETON POINTE SUBDIVISION  
 OVERALL PHASING & UTILITY PLAN  
 ROLESVILLE, NC

CARLETON GROUP OF NC, LLC  
 20 SQUADRON BLVD  
 NEW CITY, NEW YORK 10956  
 914-429-0683

DRAWN: DRD  
 CHECKED: GMM  
 APPROVED: GMM  
 START DATE: \_\_\_\_\_  
 JOB CODE: \_\_\_\_\_

DRAWING No. C-1

Q:\Site\Drawings\Construction\Drawings\C-1\_OVERALL PHASING\UTILITY\_PLAN.dwg, 3/19/2007 2:46:34 PM, 1120

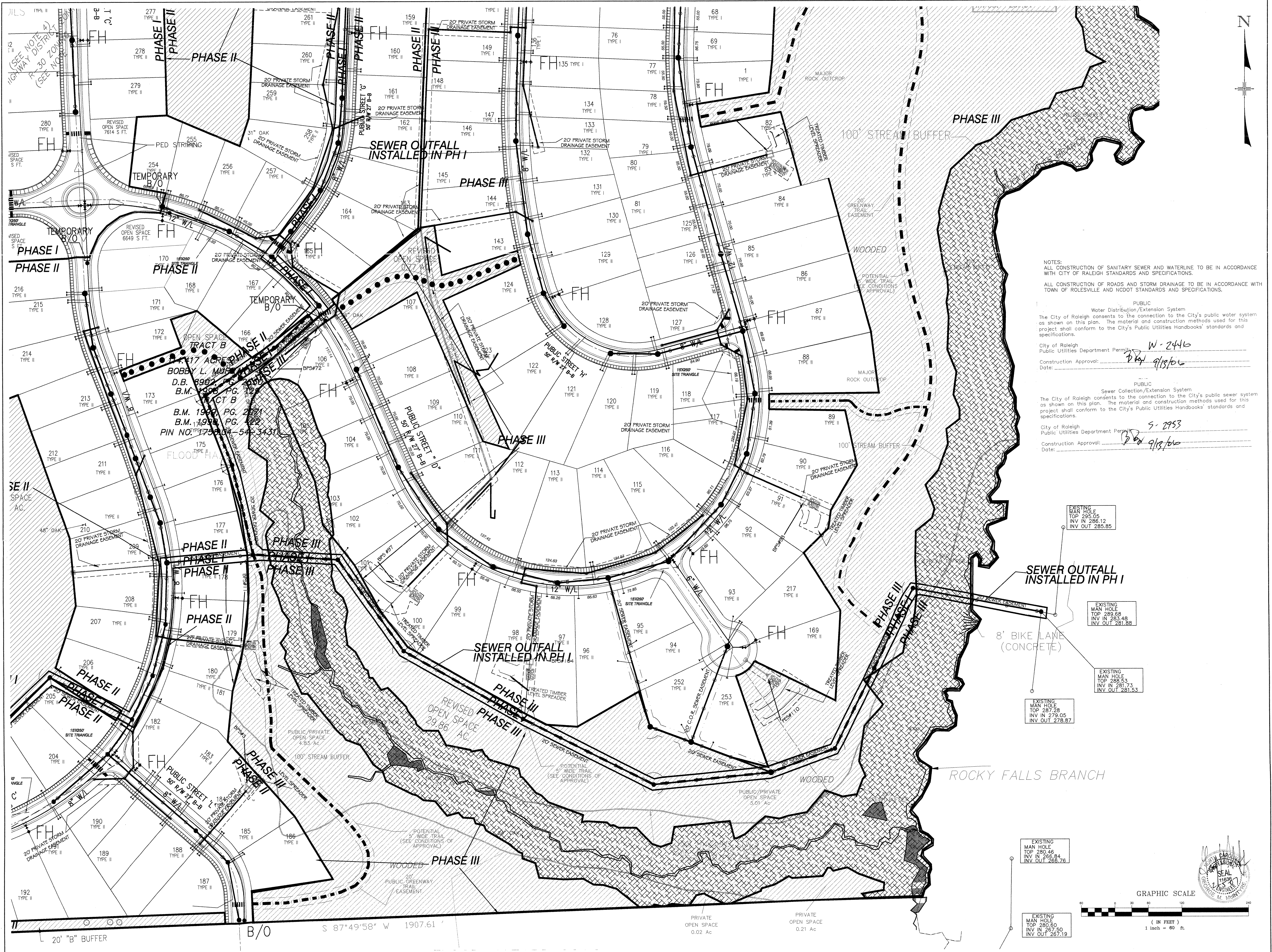












NOTES:  
 ALL CONSTRUCTION OF SANITARY SEWER AND WATERLINE TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.  
 ALL CONSTRUCTION OF ROADS AND STORM DRAINAGE TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.

PUBLIC Water Distribution/Extension System  
 The City of Raleigh consents to the connection to the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.  
 City of Raleigh Public Utilities Department Permit: W-2416  
 Construction Approval: [Signature] 9/13/06  
 Date: \_\_\_\_\_

PUBLIC Sewer Collection/Extension System  
 The City of Raleigh consents to the connection to the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.  
 City of Raleigh Public Utilities Department Permit: S-2953  
 Construction Approval: [Signature] 9/13/06  
 Date: \_\_\_\_\_

EXISTING MAN HOLE  
 TOP 295.05  
 INV IN 286.12  
 INV OUT 285.85

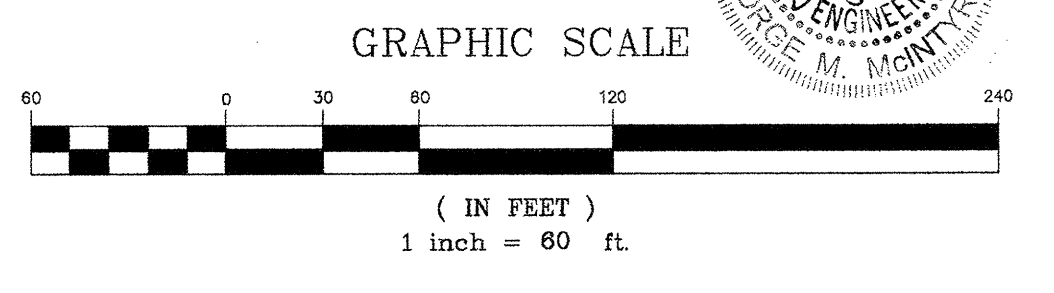
EXISTING MAN HOLE  
 TOP 289.69  
 INV IN 283.48  
 INV OUT 281.88

EXISTING MAN HOLE  
 TOP 288.53  
 INV IN 281.73  
 INV OUT 281.53

EXISTING MAN HOLE  
 TOP 287.28  
 INV IN 279.05  
 INV OUT 278.87

EXISTING MAN HOLE  
 TOP 250.46  
 INV IN 267.24  
 INV OUT 266.76

EXISTING MAN HOLE  
 TOP 260.60  
 INV IN 267.50  
 INV OUT 267.19



McIntyre & Associates, PLLC  
 Engineering & Land Planners  
 4932-B Windy Hill Drive  
 Raleigh, NC 27612  
 (919) 876-0145 (Office)  
 (919) 876-0699 (Fax)

CARLTON POINTE SUBDIVISION  
 ENLARGED SITE LAYOUT PLAN - SOUTHEAST with PHASING  
 ROLESVILLE, NC

REVISIONS:  
 NO. DATE BY

CLIENT:  
 CARLTON GROUP OF NC, LLC  
 20 SQUADRON BLVD.  
 NEW CITY, NEW YORK, 10956  
 914-429-0863

DRAWN: DRD  
 CHECKED: GMM  
 APPROVED: GMM  
 START DATE: \_\_\_\_\_  
 JOB CODE: \_\_\_\_\_

DRAWING No. C-10









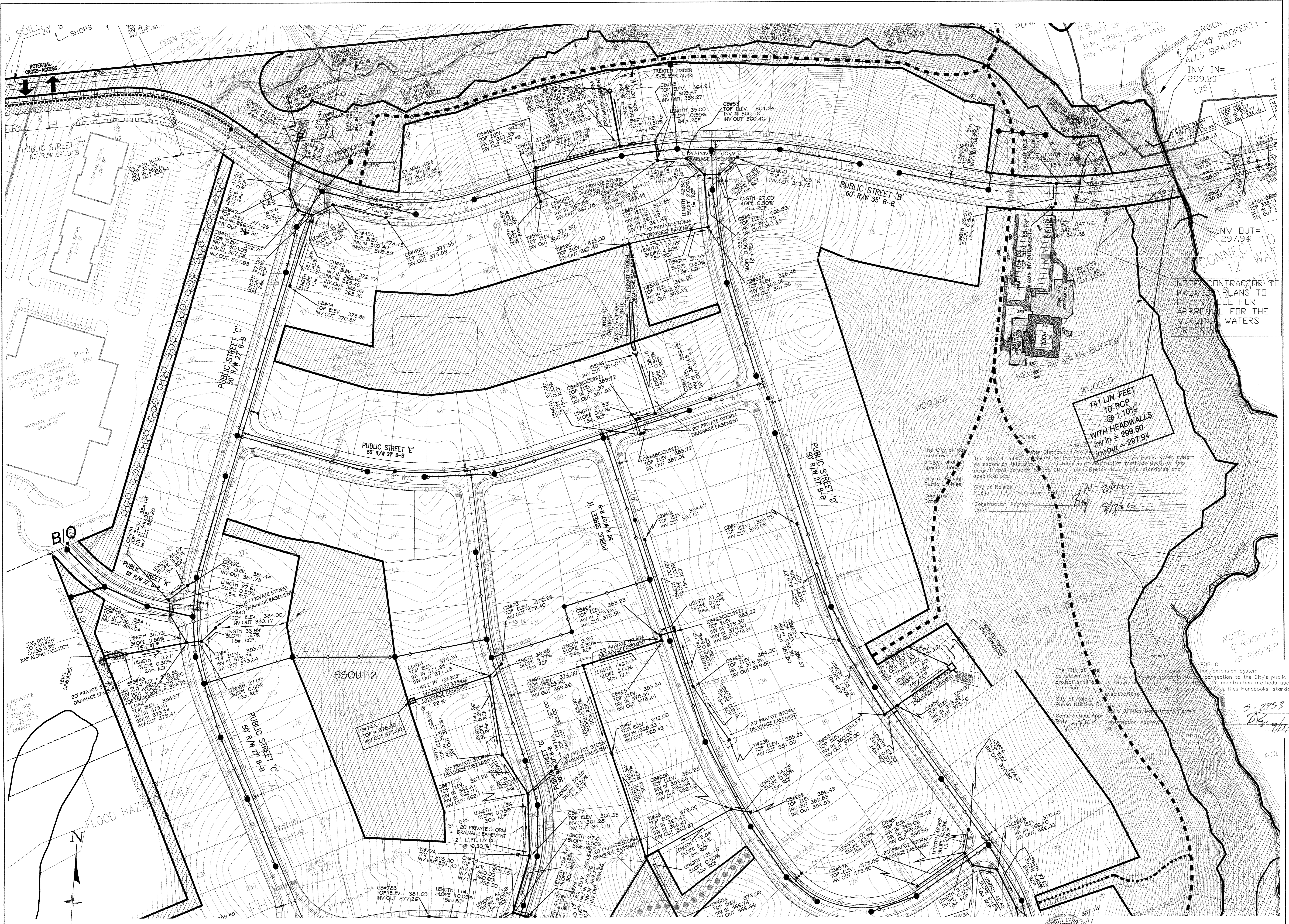




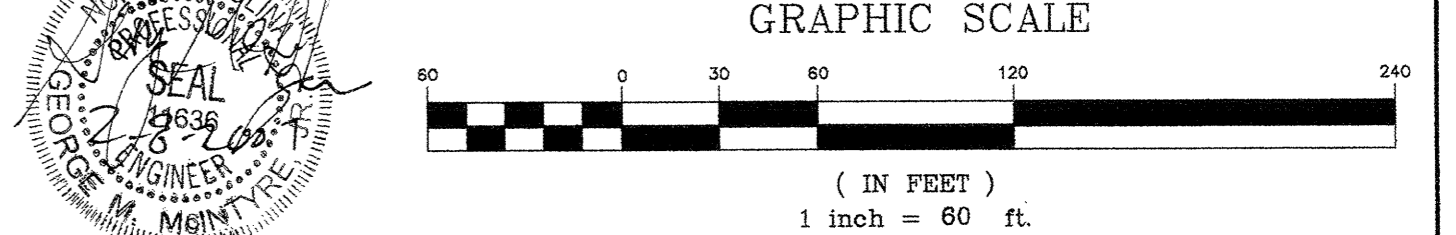








NOTES:  
 ALL CONSTRUCTION OF SANITARY SEWER AND WATERLINE TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.  
 ALL CONSTRUCTION OF ROADS AND STORM DRAINAGE TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.



NOTE: CONTRACTOR TO PROVIDE PLANS TO ROLESVILLE FOR APPROVAL FOR THE VIRGINIA WATERS CROSSING

141 LIN. FEET  
 10" RCP  
 @ 1.10%  
 WITH HEADWALLS  
 INV IN = 299.50  
 INV OUT = 297.94

The City of Raleigh...  
 Construction Approval Date: 9/7/06

3.0953  
 9/7/06

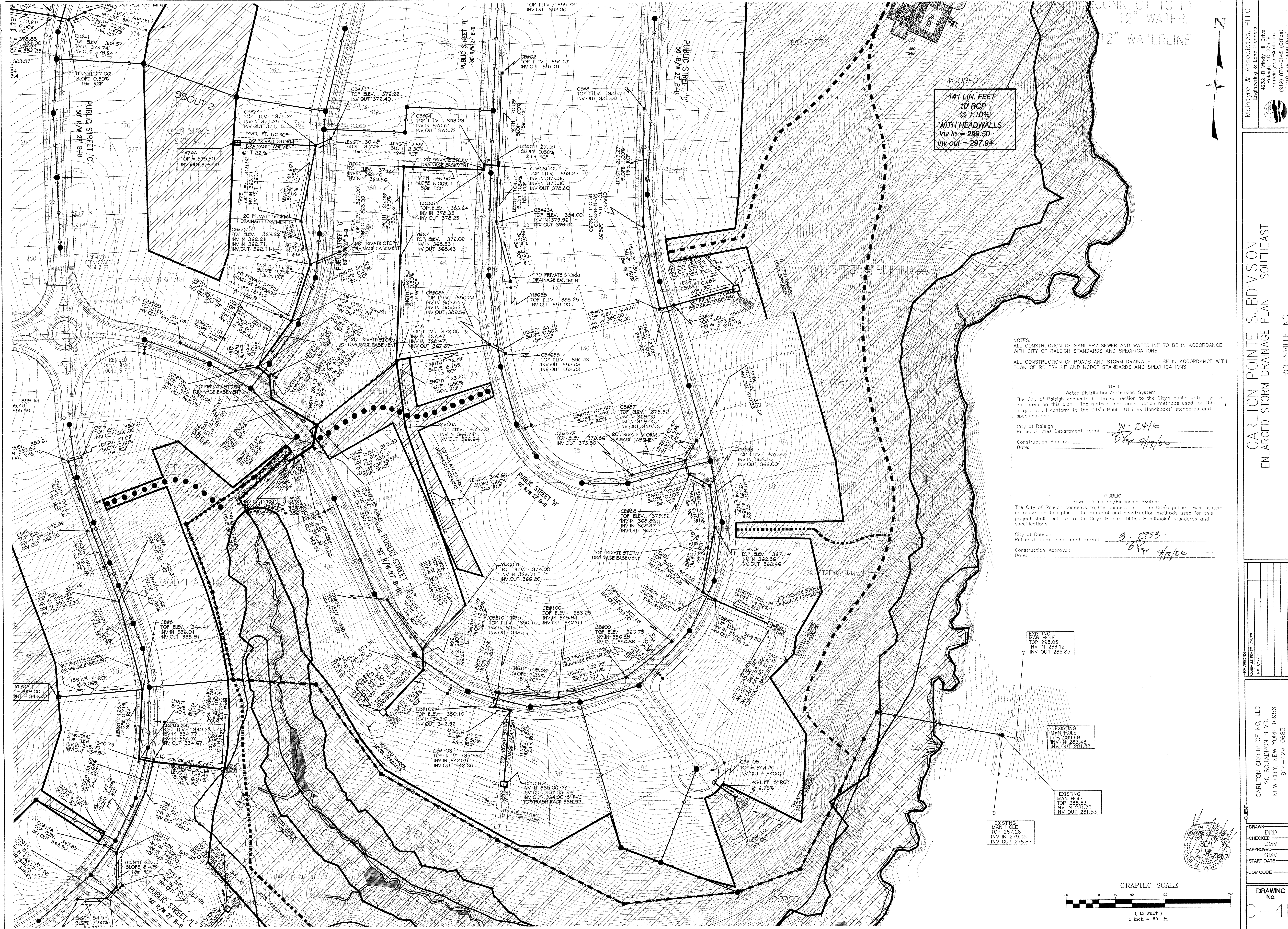
McIntyre & Associates, PLLC  
 Engineers & Land Planners  
 4832 W. ...  
 Raleigh, NC 27609  
 mmchryse@mac.com  
 (919) 876-0145 (Office)  
 (919) 876-0899 (Fax)

CARLTON POINTE SUBDIVISION  
 ENLARGED STORM DRAINAGE PLAN - NORTH  
 ROLESVILLE, NC

CARLTON GROUP OF NC, LLC  
 20 SQUADRON BLVD.  
 NEW CITY, NEW YORK 10956  
 914-429-0683

DRAWN: DRD  
 CHECKED: GMM  
 APPROVED: GMM  
 START DATE:  
 JOB CODE:  
 DRAWING No. C-4





141 LIN. FEET  
 10" RCP  
 @ 1.10%  
 WITH HEADWALLS  
 inv in = 299.50  
 inv out = 297.94

NOTES:  
 ALL CONSTRUCTION OF SANITARY SEWER AND WATERLINE TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.  
 ALL CONSTRUCTION OF ROADS AND STORM DRAINAGE TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.

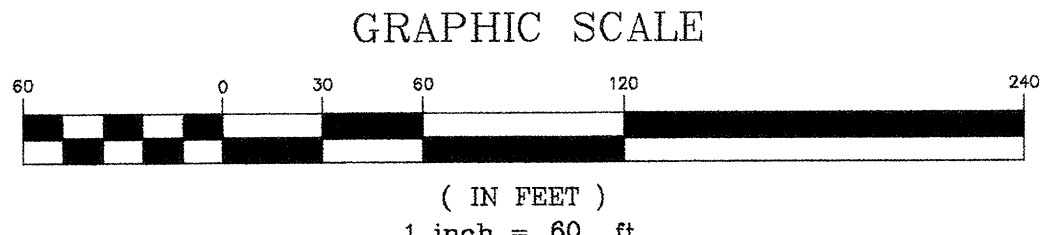
PUBLIC Water Distribution/Extension System  
 The City of Raleigh consents to the connection to the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.

City of Raleigh  
 Public Utilities Department Permit: W-2446  
 Construction Approval: BR 9/13/06  
 Date: \_\_\_\_\_

PUBLIC Sewer Collection/Extension System  
 The City of Raleigh consents to the connection to the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.

City of Raleigh  
 Public Utilities Department Permit: S-2953  
 Construction Approval: BR 9/17/06  
 Date: \_\_\_\_\_

- EXISTING MAN HOLE  
 TOP 295.05  
 INV IN 286.12  
 INV OUT 285.85
- EXISTING MAN HOLE  
 TOP 289.68  
 INV IN 283.48  
 INV OUT 281.88
- EXISTING MAN HOLE  
 TOP 286.53  
 INV IN 281.73  
 INV OUT 281.53
- EXISTING MAN HOLE  
 TOP 287.28  
 INV IN 279.05  
 INV OUT 278.87



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 (919) 876-0899 (Fax)

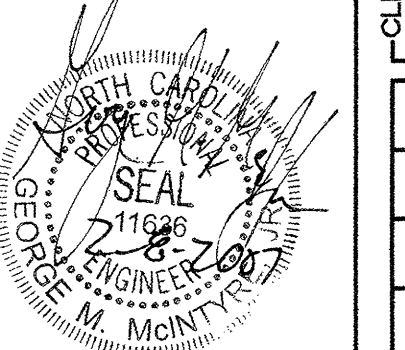
CARLTON POINTE SUBDIVISION  
 ENLARGED STORM DRAINAGE PLAN SOUTHEAST  
 ROLESVILLE, NC

REVISIONS	DATE	BY	DESCRIPTION

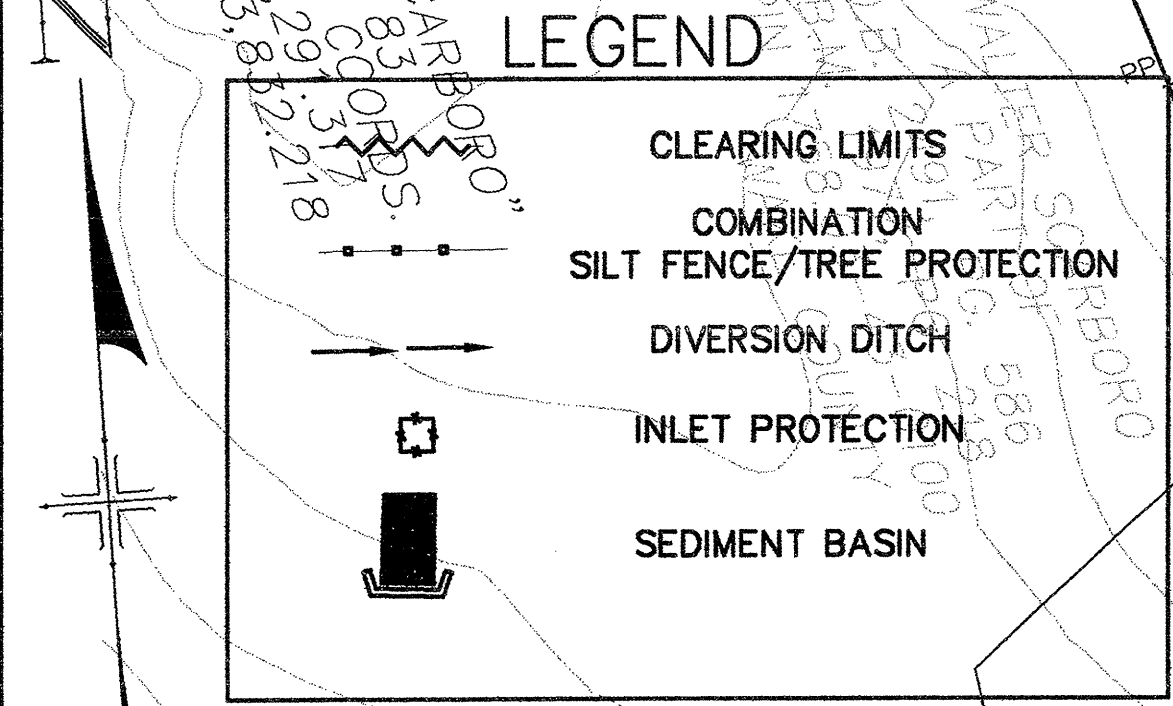
CLIENT  
 CARLTON GROUP OF NC, LLC  
 20 SQUADRON BLVD.  
 NEW CITY, NEW YORK 10956  
 914-429-0683

DRAWN: DRD  
 CHECKED: GMM  
 APPROVED: GMM  
 START DATE: \_\_\_\_\_  
 JOB CODE: \_\_\_\_\_

DRAWING No. C-4E







LOTS IN THIS SUBDIVISION ARE SLOPED CRAWL SPACE LOTS. CLEARING ON THESE LOTS IS NECESSARY DUE TO ROCK BLASTING REQUIREMENTS FOR UNDERGROUND SERVICES AND FOUNDATIONS.

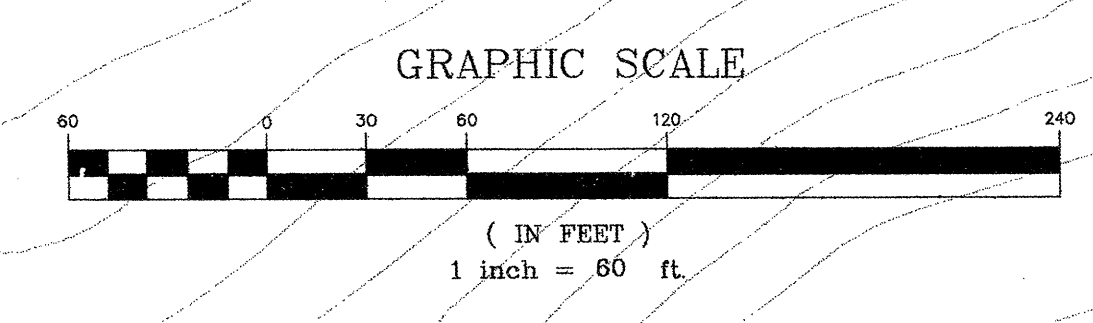
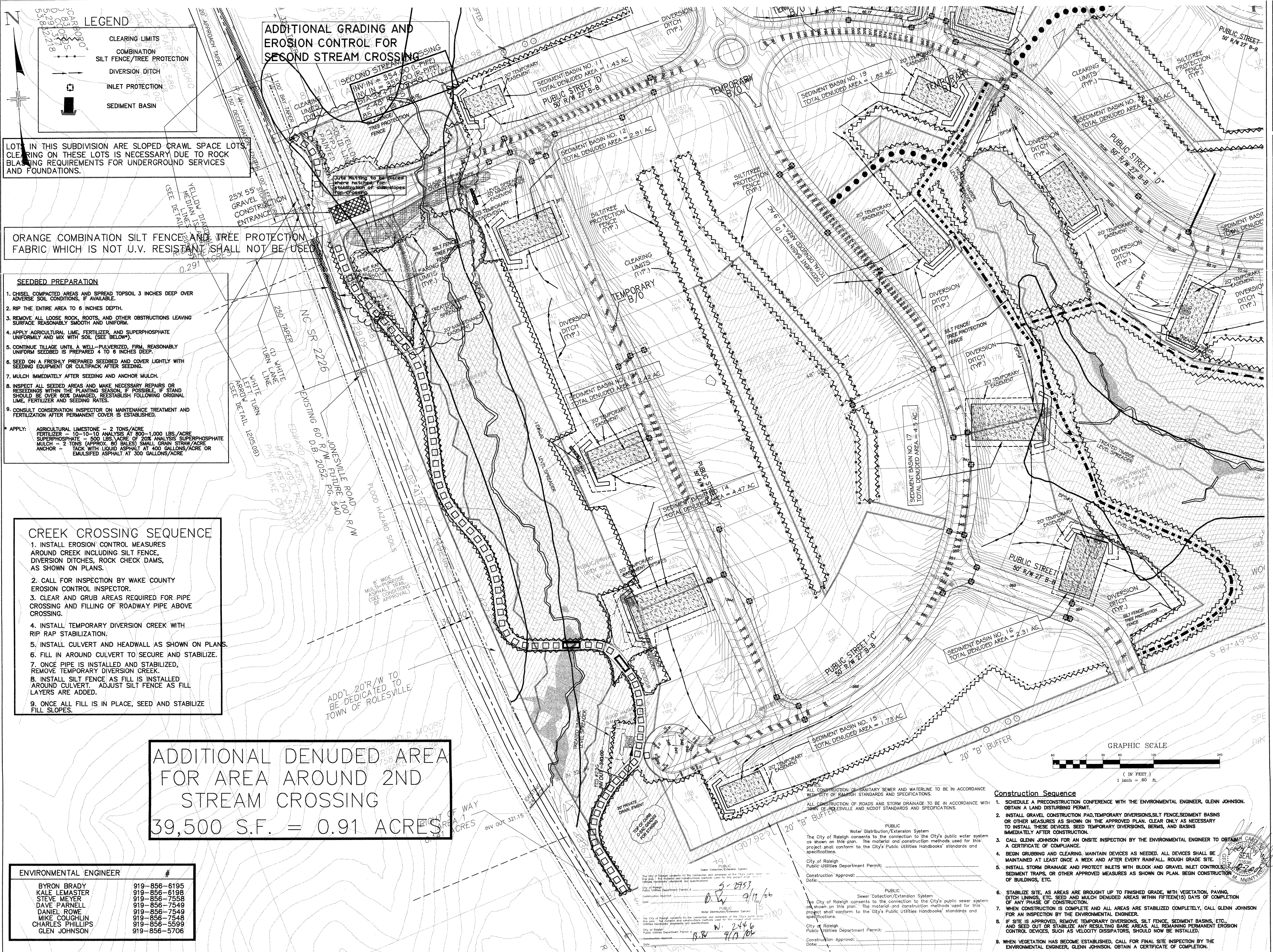
ORANGE COMBINATION SILT FENCES AND TREE PROTECTION FABRIC WHICH IS NOT U.V. RESISTANT SHALL NOT BE USED.

- #### SEEDBED PREPARATION
1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
  2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
  3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
  4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW\*).
  5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
  6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
  7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
  8. INSPECT ALL SEEDBEDS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON. IF POSSIBLE, IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
  9. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
- \* APPLY:
- AGRICULTURAL LIMESTONE - 2 TONS/ACRE
  - FERTILIZER - 10-10-10 ANALYSIS AT 800-1,000 LBS./ACRE
  - SUPERPHOSPHATE - 500 LBS./ACRE OF 20% ANALYSIS SUPERPHOSPHATE
  - MULCH - 2 TONS (APPROX. 80 BALES) SMALL GRAIN STRAW/ACRE
  - TACK - TACK WITH LIQUID ASPHALT AT 400 GALLONS/ACRE OR EMULSIFIED ASPHALT AT 300 GALLONS/ACRE

- #### CREEK CROSSING SEQUENCE
1. INSTALL EROSION CONTROL MEASURES AROUND CREEK INCLUDING SILT FENCE, DIVERSION DITCHES, ROCK CHECK DAMS, AS SHOWN ON PLANS.
  2. CALL FOR INSPECTION BY WAKE COUNTY EROSION CONTROL INSPECTOR.
  3. CLEAR AND GRUB AREAS REQUIRED FOR PIPE CROSSING AND FILLING OF ROADWAY PIPE ABOVE CROSSING.
  4. INSTALL TEMPORARY DIVERSION CREEK WITH RIP RAP STABILIZATION.
  5. INSTALL CULVERT AND HEADWALL AS SHOWN ON PLANS.
  6. FILL IN AROUND CULVERT TO SECURE AND STABILIZE.
  7. ONCE PIPE IS INSTALLED AND STABILIZED, REMOVE TEMPORARY DIVERSION CREEK.
  8. INSTALL SILT FENCE AS FILL IS INSTALLED AROUND CULVERT. ADJUST SILT FENCE AS FILL LAYERS ARE ADDED.
  9. ONCE ALL FILL IS IN PLACE, SEED AND STABILIZE FILL SLOPES.

**ADDITIONAL DENUDEED AREA FOR AREA AROUND 2ND STREAM CROSSING**  
 39,500 S.F. = 0.91 ACRES

ENVIRONMENTAL ENGINEER	#
BYRON BRADY	919-856-6195
KALE LEMASTER	919-856-6198
STEVE MEYER	919-856-7558
DAVE PARNELL	919-856-7549
DANIEL ROWE	919-856-7549
MIKE COUGHLIN	919-856-7548
CHARLES PHILLIPS	919-856-5599
GLEN JOHNSON	919-856-5706



ALL CONSTRUCTION OF SANITARY SEWER AND WATERLINE TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.

ALL CONSTRUCTION OF ROADS AND STORM DRAINAGE TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.

The City of Raleigh consents to the connection to the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbook's standards and specifications.

City of Raleigh  
 Public Utilities Department Permit:  
 Construction Approval:  
 Date: 5-29-13

The City of Raleigh consents to the connection to the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbook's standards and specifications.

City of Raleigh  
 Public Utilities Department Permit:  
 Construction Approval:  
 Date: 5-29-13

The City of Raleigh consents to the connection to the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbook's standards and specifications.

City of Raleigh  
 Public Utilities Department Permit:  
 Construction Approval:  
 Date: 5-29-13

- #### Construction Sequence
1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL ENGINEER, GLENN JOHNSON. OBTAIN A LAND DISTURBING PERMIT.
  2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS, AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
  3. CALL GLENN JOHNSON FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL ENGINEER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
  4. BEGIN GRUBBING AND CLEARING. MAINTAIN DEVICES AS NEEDED. ALL DEVICES SHALL BE MAINTAINED AT LEAST ONCE A WEEK AND AFTER EVERY RAINFALL. REPAIR GRADE SITE.
  5. INSTALL STORM DRAINAGE AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS. SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN ON PLAN. BEGIN CONSTRUCTION OF BUILDINGS, ETC.
  6. STABILIZE SITE, AS AREAS ARE BROUGHT UP TO FINISHED GRADE, WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDEED AREAS WITHIN FIFTEEN(15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
  7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL GLENN JOHNSON FOR AN INSPECTION BY THE ENVIRONMENTAL ENGINEER.
  8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC. AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
  9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL SITE INSPECTION BY THE ENVIRONMENTAL ENGINEER, GLENN JOHNSON. OBTAIN A CERTIFICATE OF COMPLETION.

McIntyre & Associates, PLLC  
 Engineering & Land Planners  
 4839-B Windy Hill Drive  
 Raleigh, NC 27609  
 mmcmtyre@aol.com  
 (919) 876-0145 (Office)  
 (919) 876-0683 (Fax)

CARLTON POINTE SUBDIVISION  
 AMENDED GRADING AND EROSION CONTROL PLAN  
 FOR SECOND STREAM CROSSING  
 ROLESVILLE, NC

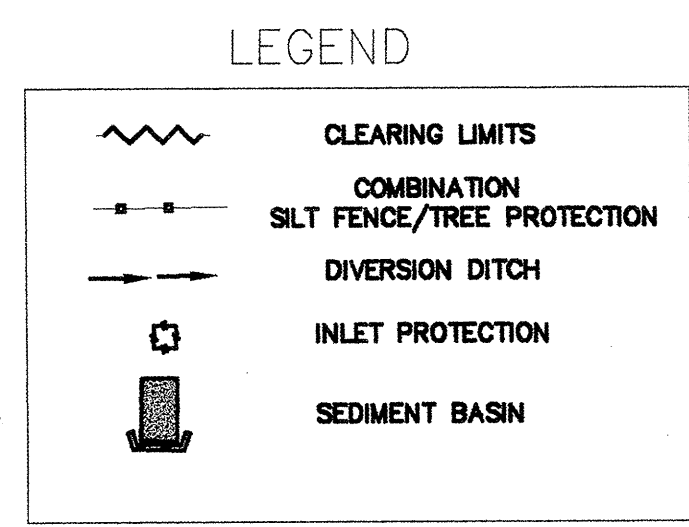
CARLTON GROUP OF NC, LLC  
 20 SQUADRON BLVD.  
 NEW CITY, NEW YORK 10956  
 914-429-0883

CLIENT: CARLTON GROUP OF NC, LLC  
 DRAWN: DRD  
 CHECKED: GMM  
 APPROVED: GMM  
 START DATE: 5/29/13  
 JOB CODE: EC-1



ORANGE COMBINATION SILT FENCE AND TREE PROTECTION FABRIC WHICH IS NOT U.V. RESISTANT SHALL NOT BE USED.

LOTS IN THIS SUBDIVISION ARE SLOPED CRAWL SPACE LOTS. CLEARING ON THESE LOTS IS NECESSARY DUE TO ROCK BLASTING REQUIREMENTS FOR UNDERGROUND SERVICES AND FOUNDATIONS.



TOTAL DENUDED AREA = 87.893 ACRES

**SEEDBED PREPARATION**

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW\*).
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE, IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

\* APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ACRE  
 FERTILIZER - 10-10-10 ANALYSIS AT 800-1,000 LBS./ACRE  
 SUPERPHOSPHATE - 500 LBS./ACRE OF 20% ANALYSIS SUPERPHOSPHATE  
 MULCH - 2 TONS (APPROX. 80 BALES) SMALL GRAIN STRAW/ACRE  
 ANCHOR - TACK W/ LIQUID ASPHALT AT 400 GALLONS/ACRE OR EMULSIFIED ASPHALT AT 300 GALLONS/ACRE

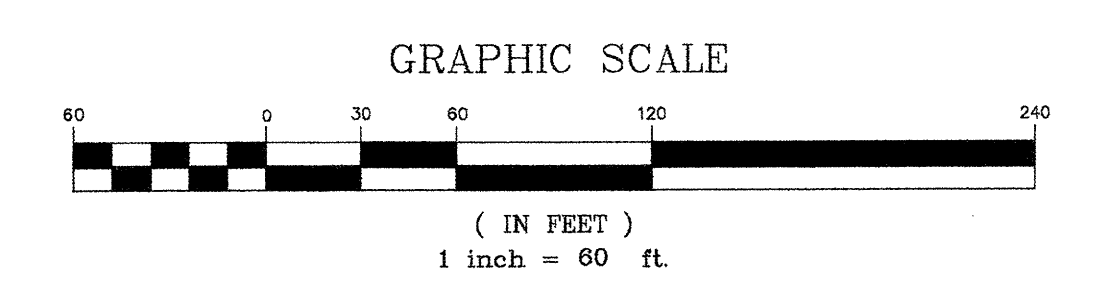
**SEEDING SCHEDULE**

DATE	TYPE	PLANTING RATE
AUG. 15 - NOV. 1	TALL FESCUE	200 LBS./ACRE
NOV. 1 - MAR. 1	TALL FESCUE AND ABRUZZI RYE *(NURSE CROP)	200 LBS./ACRE 25 LBS./ACRE
MAR. 1 - APR. 15	TALL FESCUE	200 LBS./ACRE
APR. 15 - JUN. 30	HULLED COMMON BERMUDAGRASS	15 LBS./ACRE
<b>PERMANENT SEEDING - SHOULDER, SIDE DITCHES, SLOPES (MAX. 3:1)</b>		
AUG. 15 - NOV. 1	TALL FESCUE AND SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED)	200 LBS./ACRE 60 TO 70 LBS./ACRE
NOV. 1 - MAR. 1	TALL FESCUE AND SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED) AND ABRUZZI RYE	200 LBS./ACRE 60 TO 70 LBS./ACRE 25 LBS./ACRE
MAR. 1 - JUNE 1	TALL FESCUE AND SERICEA LESPEDEZA (SCARIFIED)	200 LBS./ACRE 40 TO 50 LBS./ACRE
MAR. 15 - JUNE 30	WEEPING LOVEGRASS AND SERICEA LESPEDEZA (SCARIFIED)	10 LBS./ACRE 40 TO 50 LBS./ACRE
MAR. 15 - JUNE 30	HULLED COMMON BERMUDAGRASS AND SERICEA LESPEDEZA (SCARIFIED)	15 LBS./ACRE 40 TO 50 LBS./ACRE
<b>TEMPORARY SEEDING</b>		
JUNE 1 - SEPT. 1	TALL FESCUE AND BROWNTOP MILLET *(NURSE CROP) OR SORGHUM-SUDAN HYBRIDS *(NURSE CROP)	200 LBS./ACRE 35 LBS./ACRE 30 LBS./ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.  
 \*NURSE CROP/TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING; OTHERWISE FESCUE MAY BE SHADED OUT.

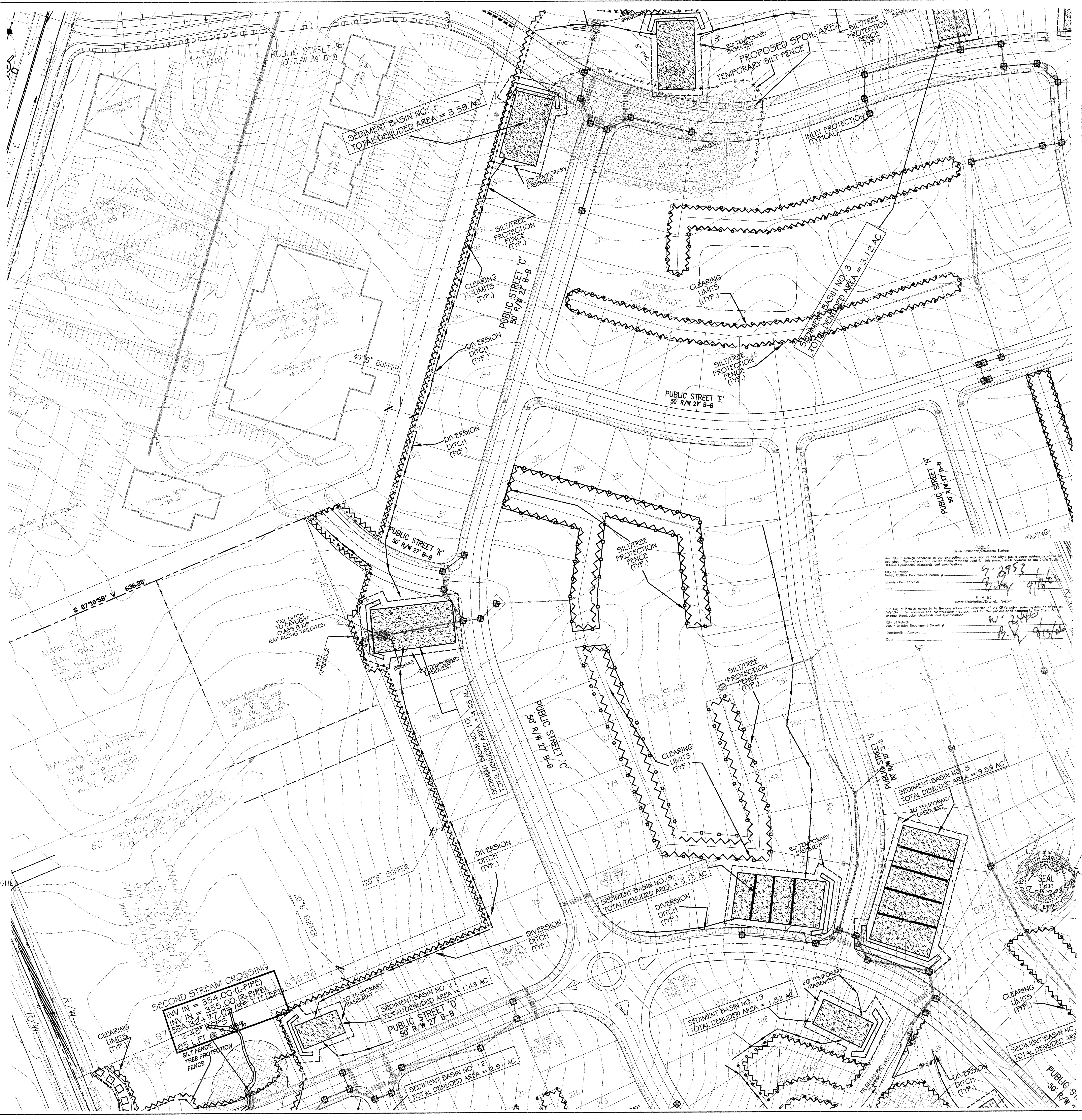
**Construction Sequence**

- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL ENGINEER, MIKE COUGHLIN. OBTAIN A LAND DISTURBING PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS, AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- CALL MIKE COUGHLIN FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL ENGINEER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN GRUBBING AND CLEARING. MAINTAIN DEVICES AS NEEDED. ALL DEVICES SHALL BE MAINTAINED AT LEAST ONCE A WEEK AND AFTER EVERY RAINFALL. ROUGH GRADE SITE.
- INSTALL STORM DRAINAGE AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN ON PLAN. BEGIN CONSTRUCTION OF BUILDINGS, ETC.
- STABILIZE SITE, AS AREAS ARE BROUGHT UP TO FINISHED GRADE, WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS WITHIN FIFTEEN (15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL MIKE COUGHLIN FOR AN INSPECTION BY THE ENVIRONMENTAL ENGINEER.
- IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL SITE INSPECTION BY THE ENVIRONMENTAL ENGINEER, MIKE COUGHLIN. OBTAIN A CERTIFICATE OF COMPLETION.



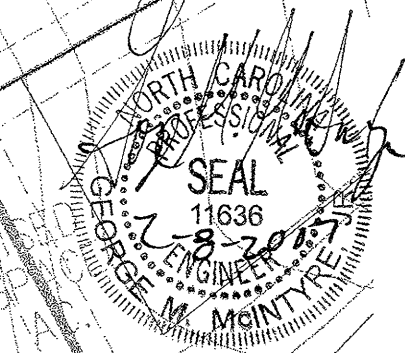
**ENVIRONMENTAL ENGINEER #**

BYRON BRADY	919-856-6195
KALE LEMASTER	919-856-6196
STEVE MEYER	919-856-7558
DAVE PARNELL	919-856-7549
DANIEL ROWE	919-856-7549
MIKE COUGHLIN	919-856-7548
CHARLES PHILLIPS	919-856-5599
GLEN JOHNSON	919-856-7413



SEWER COLLECTION/RETENTION SYSTEM  
 The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The expense and construction methods used for this project shall conform to the City's written Utilities Handbook standards and specifications.  
 City of Raleigh  
 Public Utilities Department Permit # 4-2953  
 Construction Approval: [Signature] 9/19/02

METER DISTRIBUTION/RETENTION SYSTEM  
 The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The expense and construction methods used for this project shall conform to the City's written Utilities Handbook standards and specifications.  
 City of Raleigh  
 Public Utilities Department Permit # W-2445  
 Construction Approval: [Signature] 9/19/02



Mainlyre & Associates, PLLC  
 Engineers, Architects, and Land Planners  
 4822 E. W. Williams Blvd.  
 Raleigh, NC 27606  
 mmmainlyre@aol.com  
 (919) 876-0145 (Office)  
 (919) 876-0698 (Fax)

**CARLTON POINTE SUBDIVISION  
 GRADING AND EROSION CONTROL PLAN  
 (CONT.)**  
 ROLESVILLE, NC

REVISIONS


CLIENT  
 CARLTON GROUP OF NC, LLC  
 20 SQUADRON BLVD.  
 NEW CITY, NEW YORK 10956  
 914-429-0683

DRAWN: DRD  
 CHECKED: GMM  
 APPROVED: GMM  
 START DATE:     
 JOB CODE:   

DRAWING No. C-5D





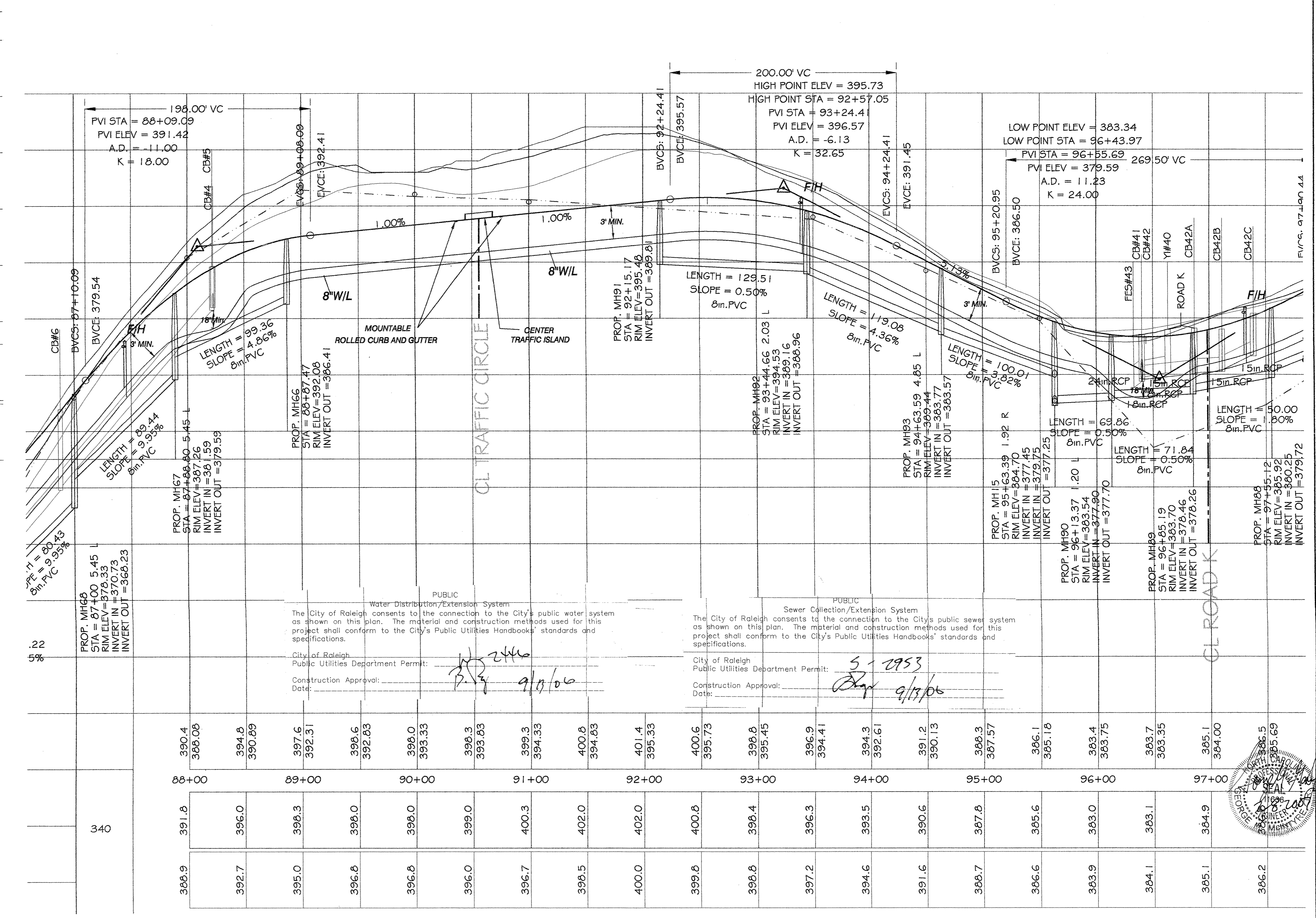
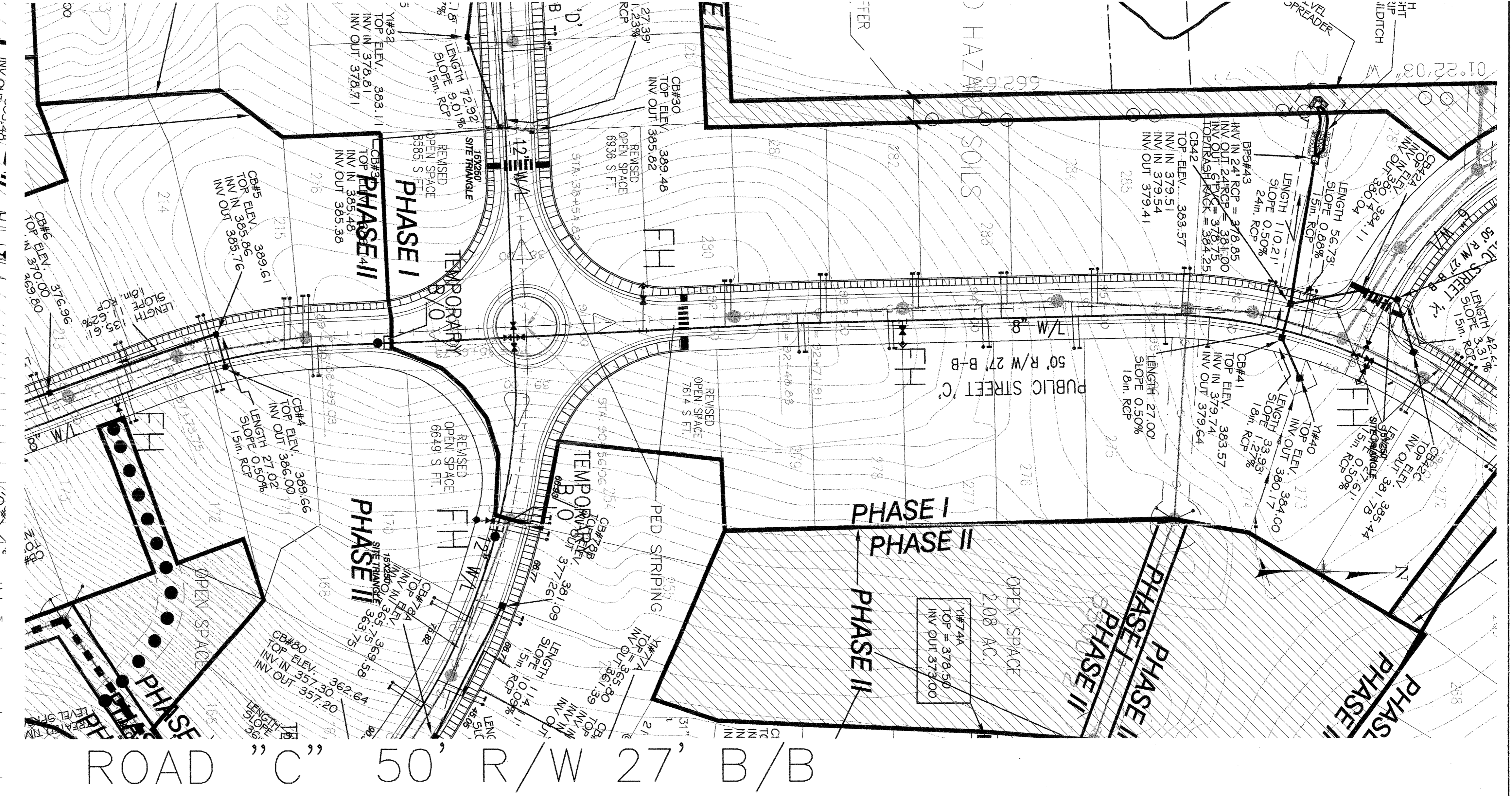
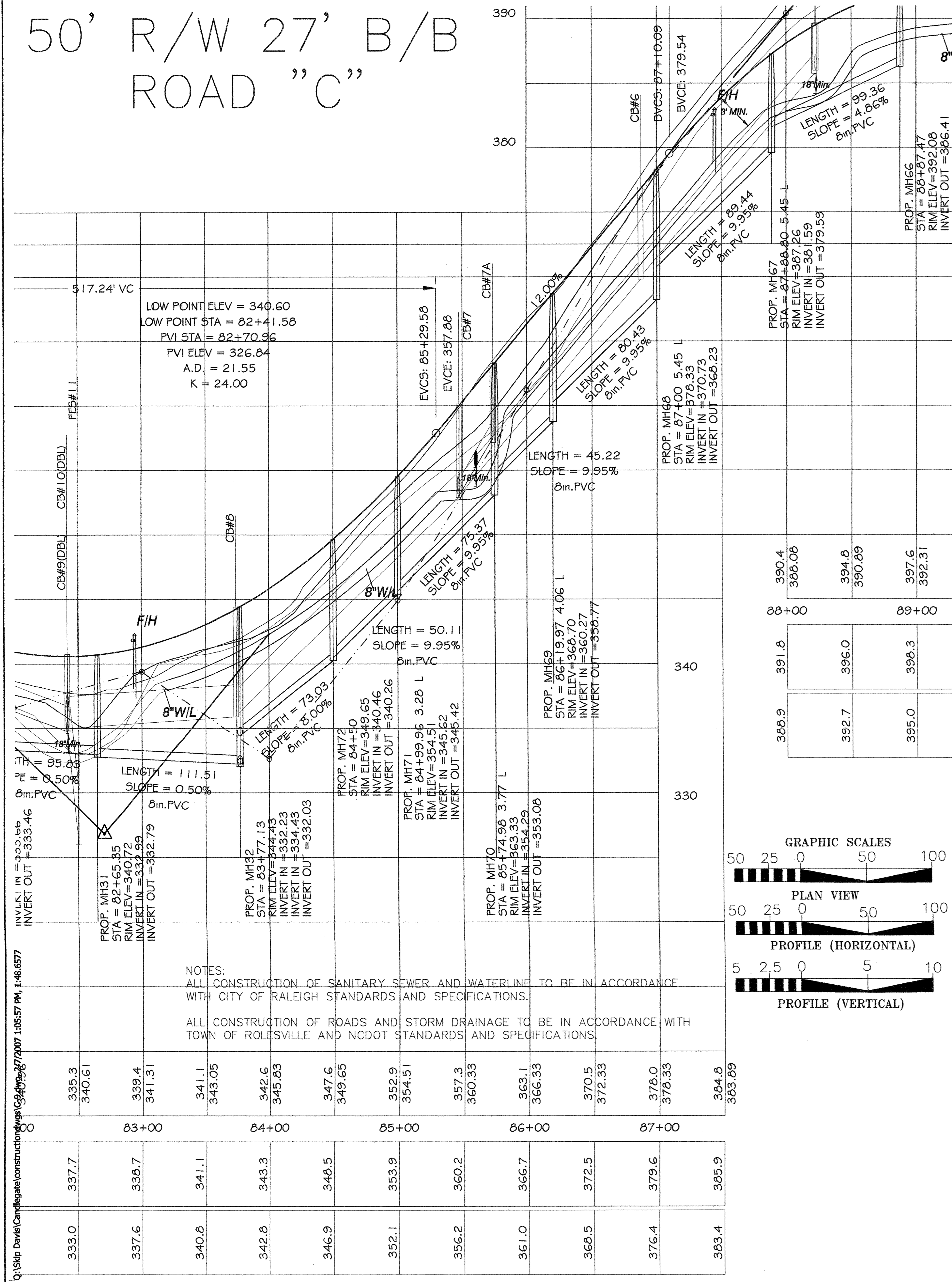
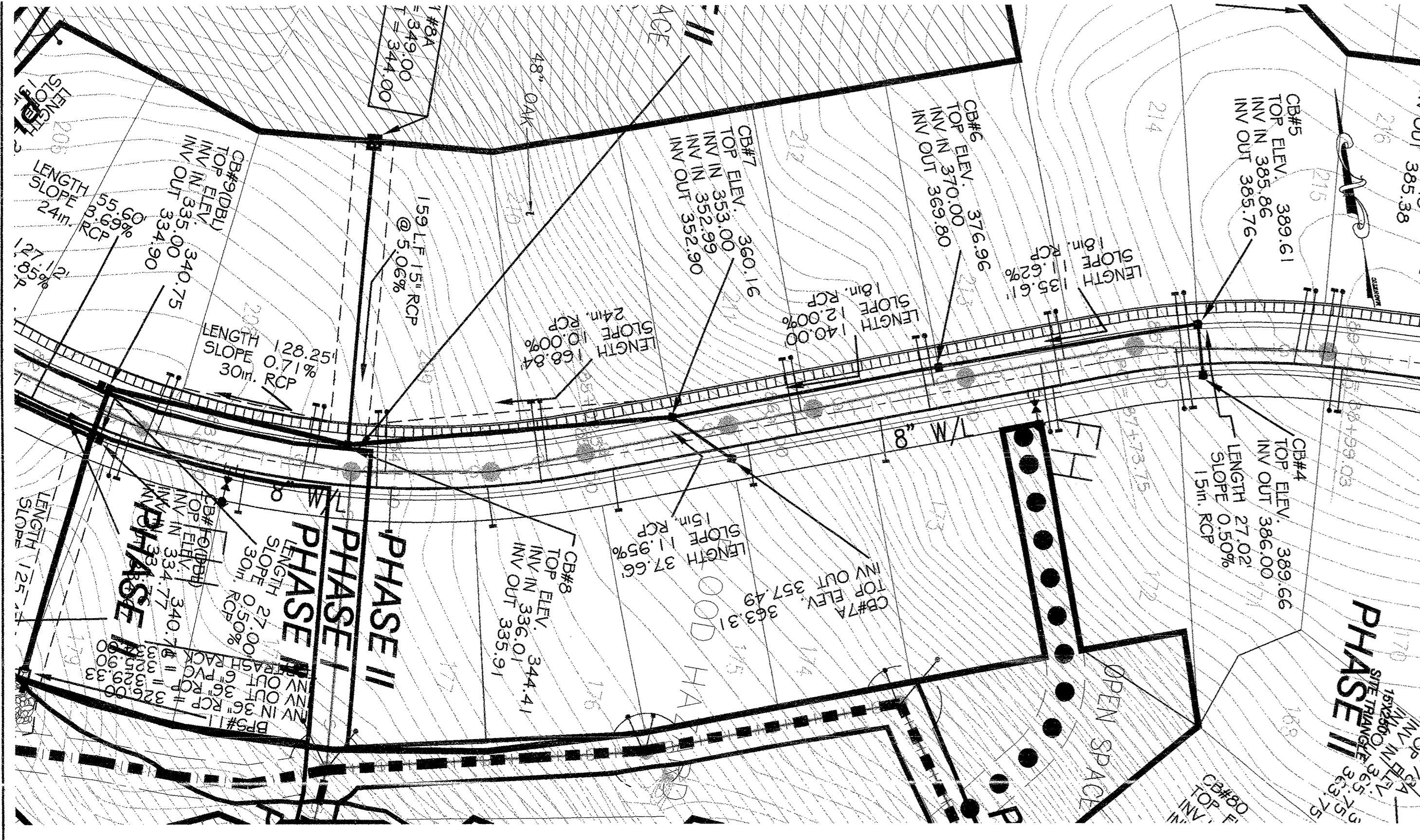




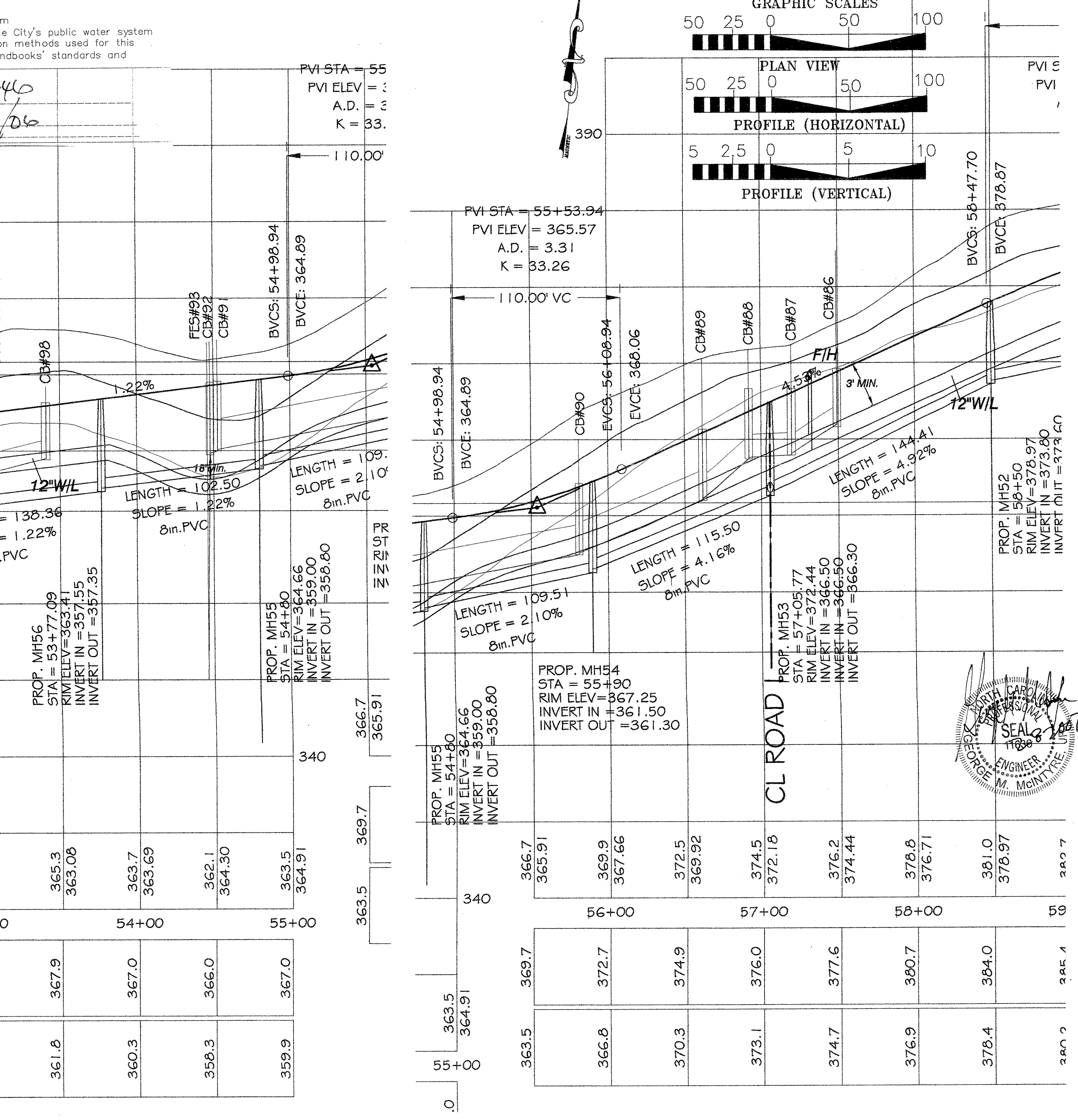
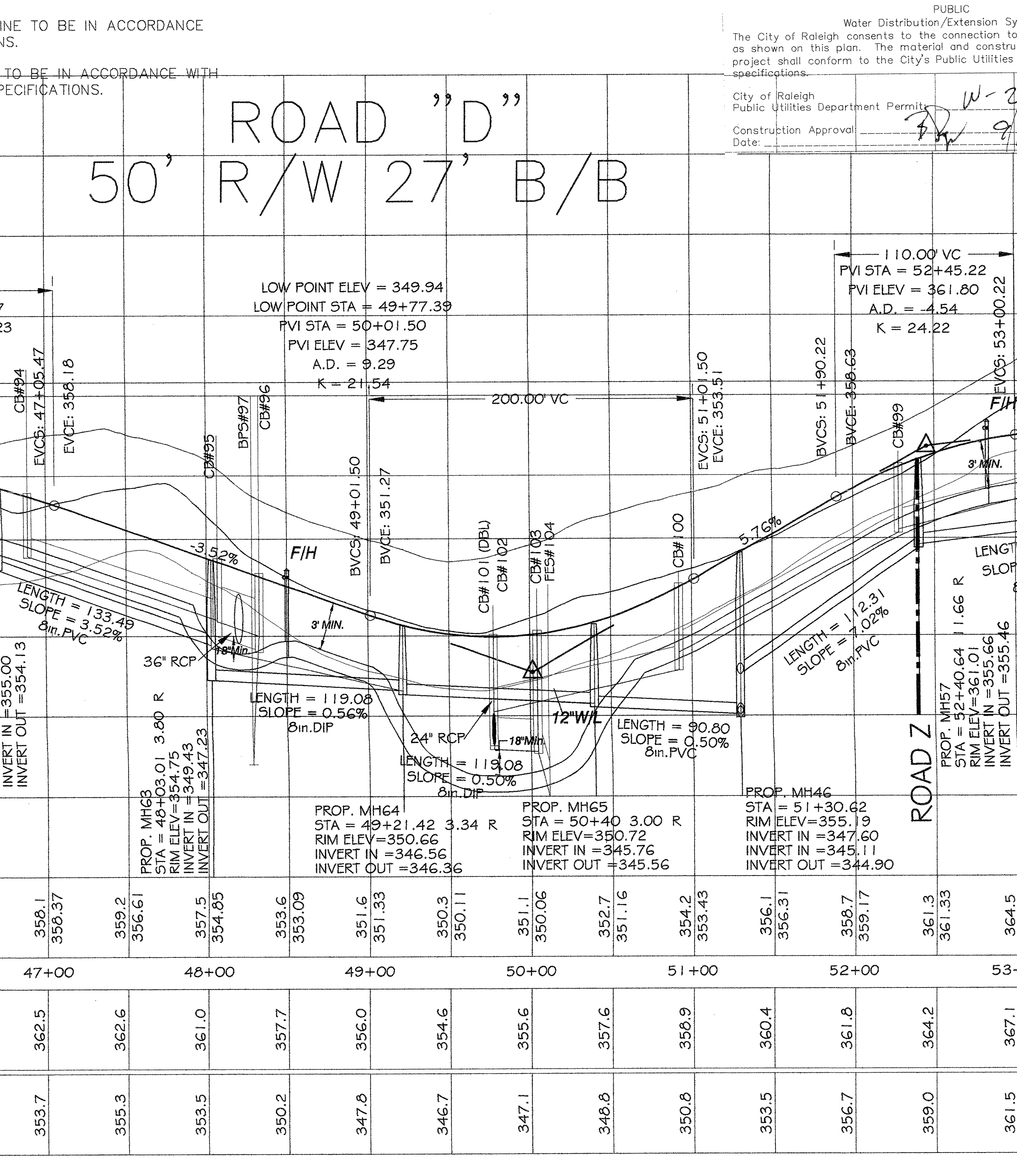
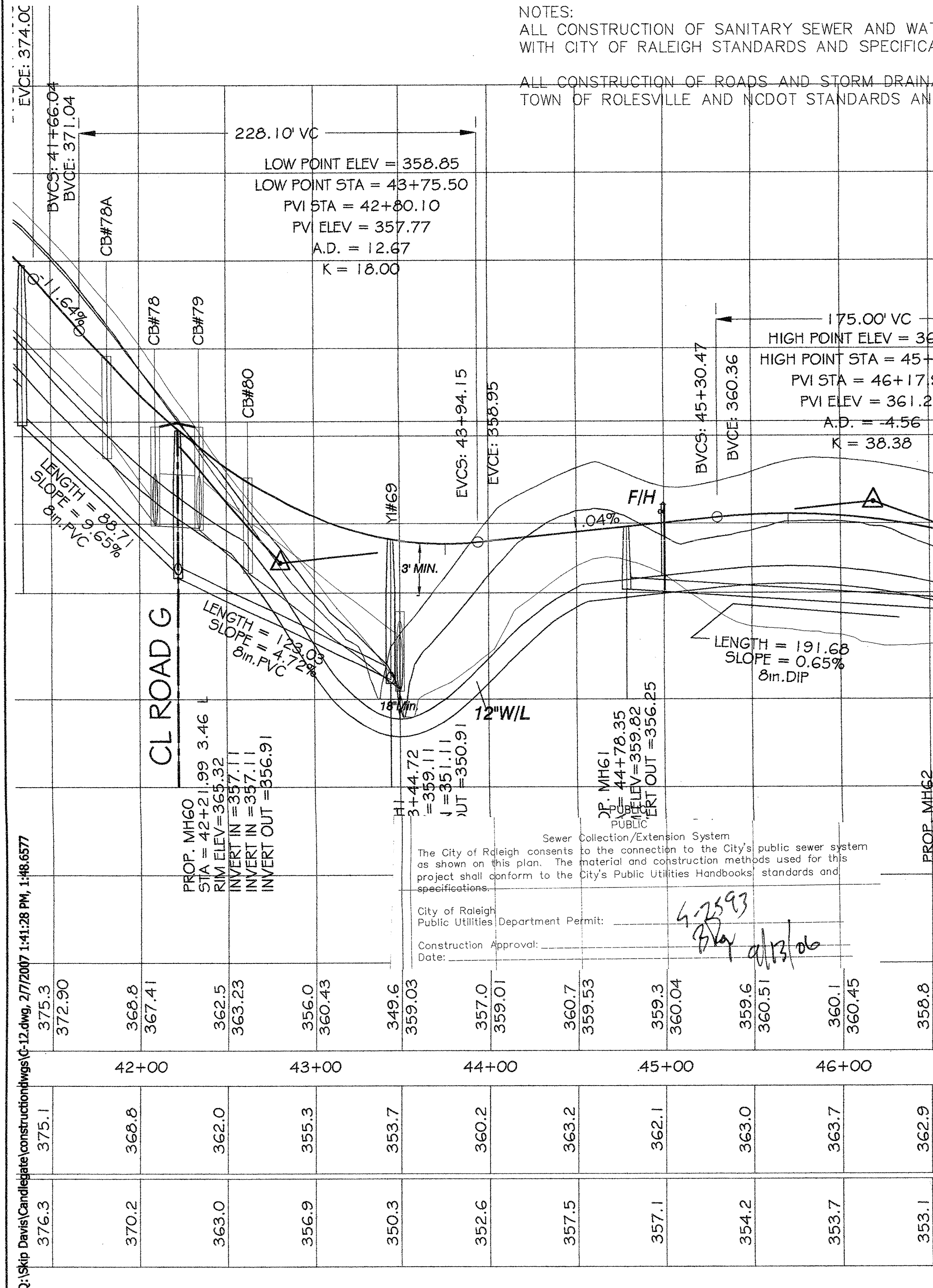
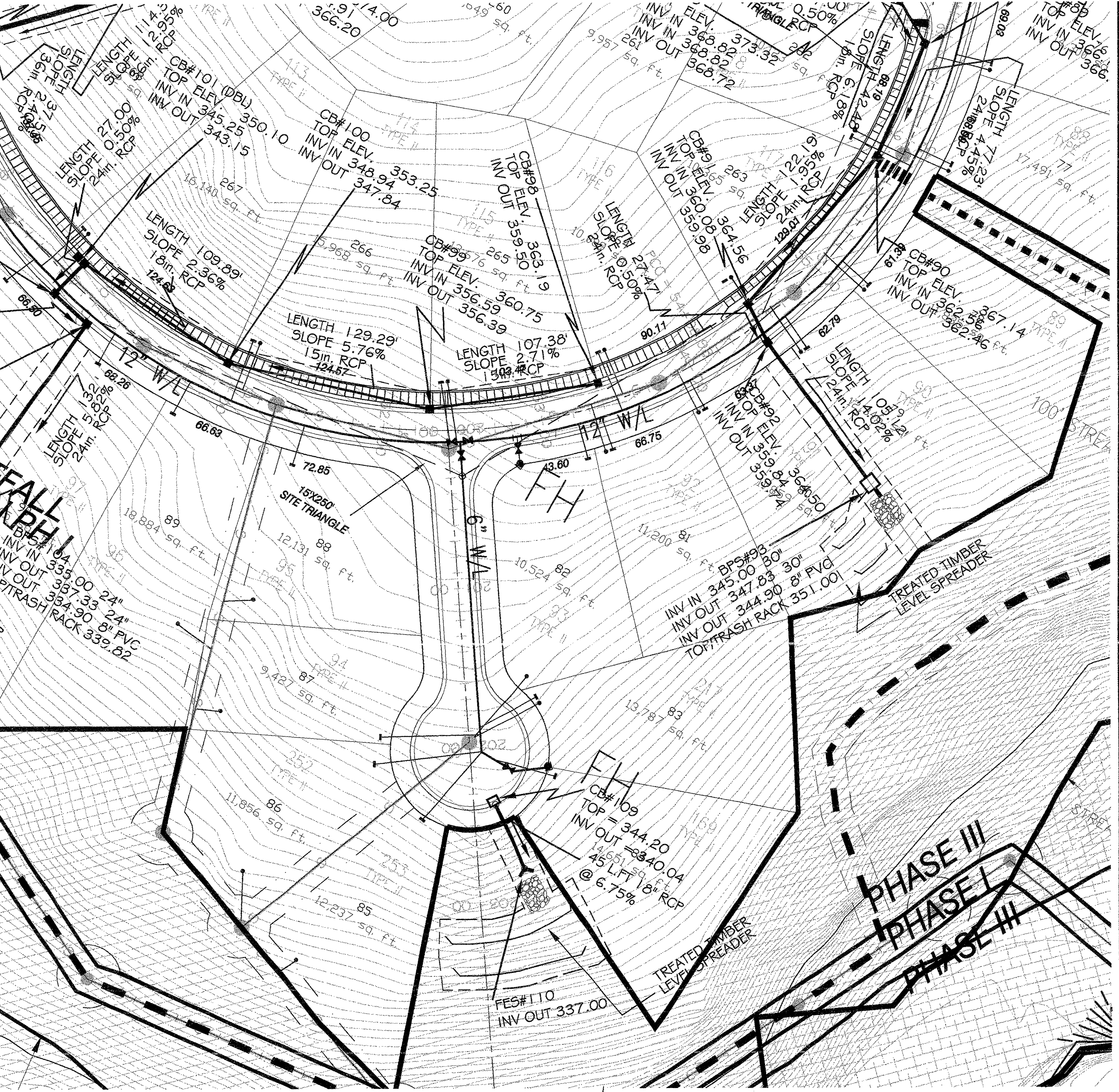
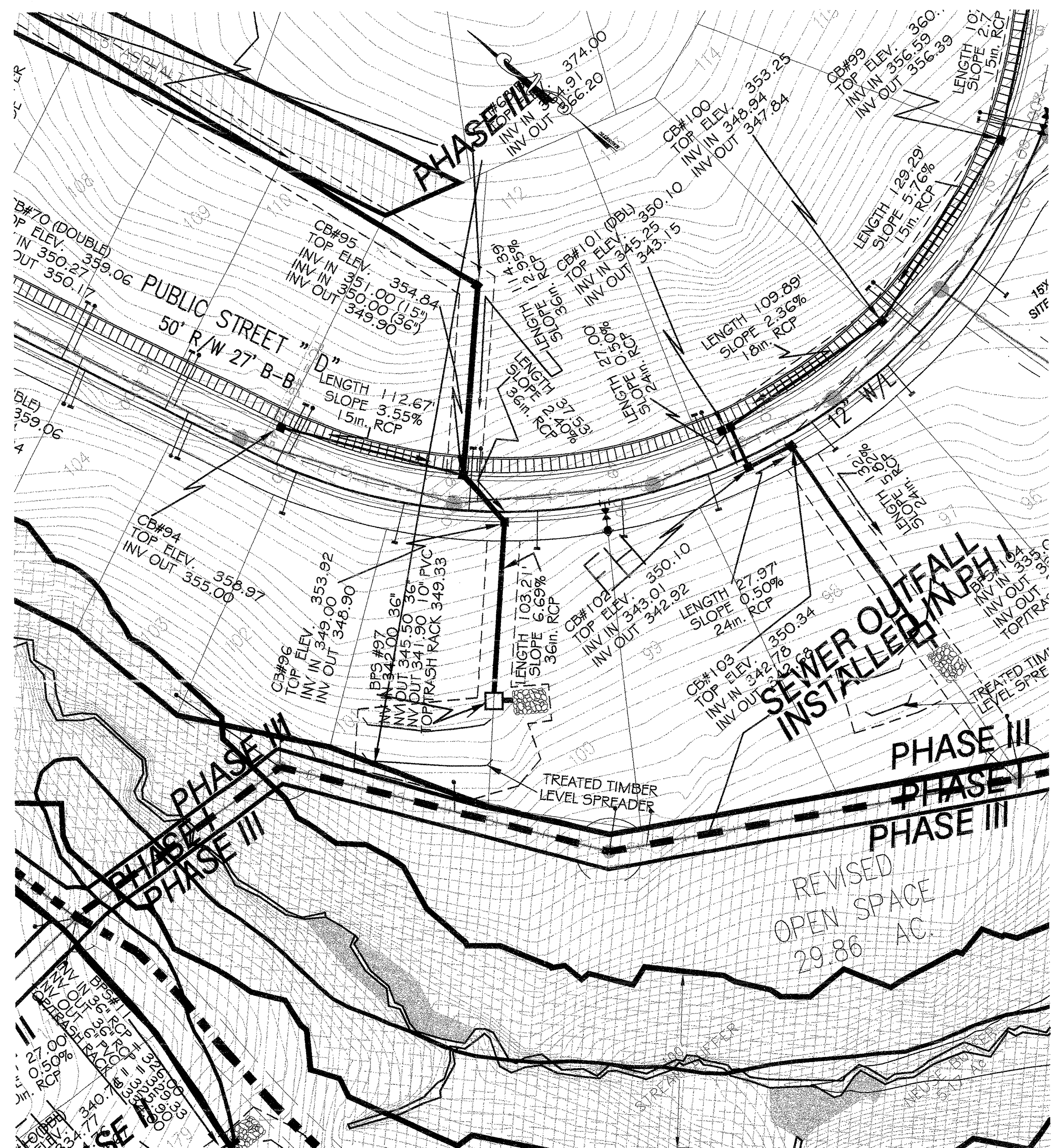
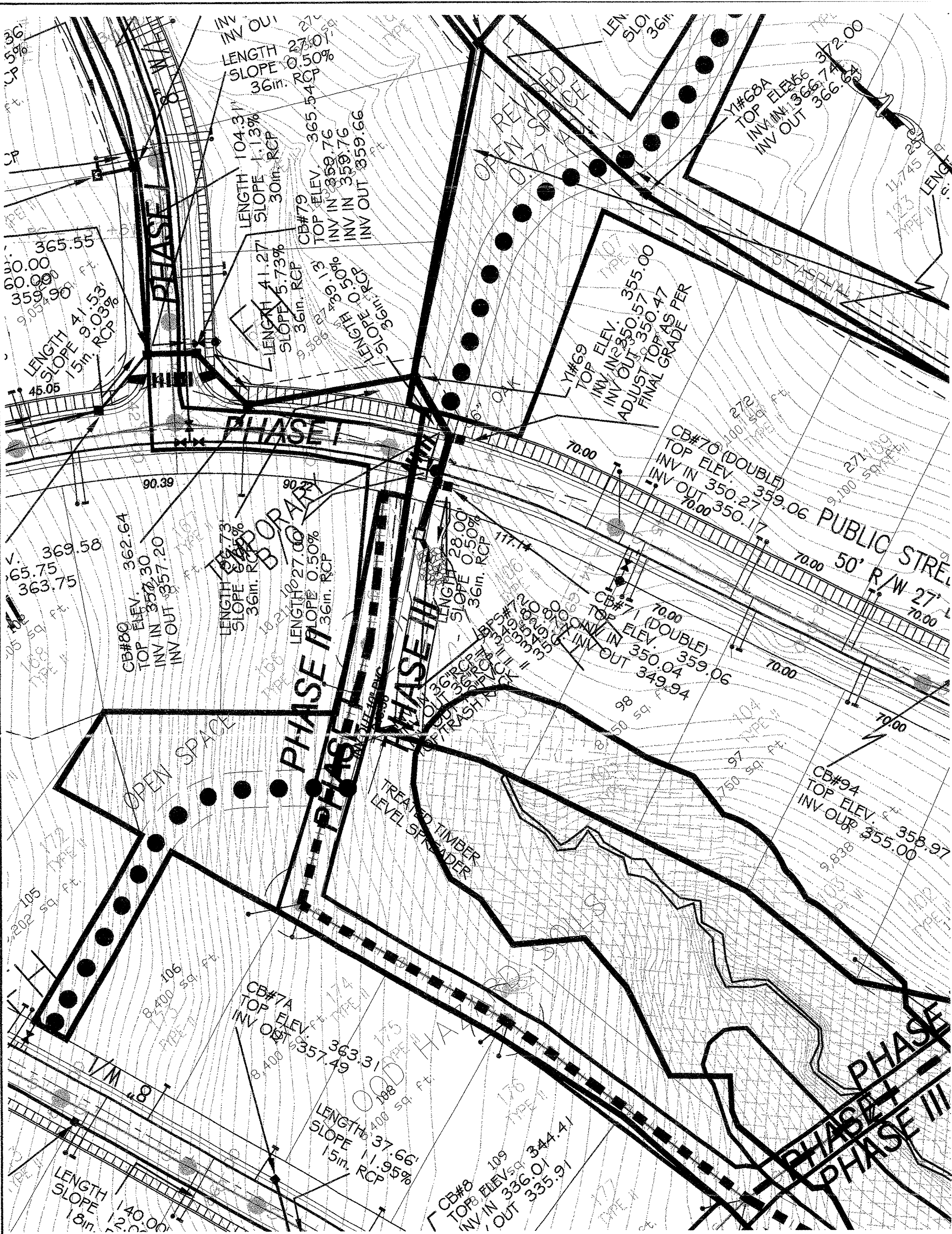








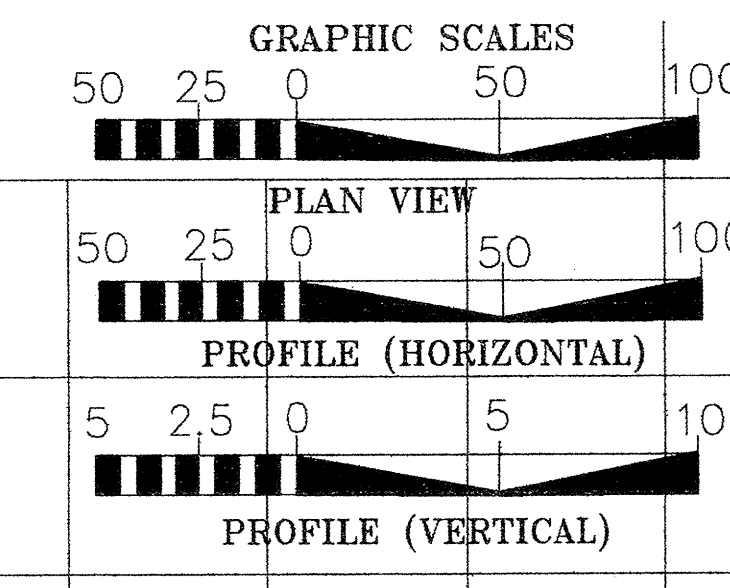




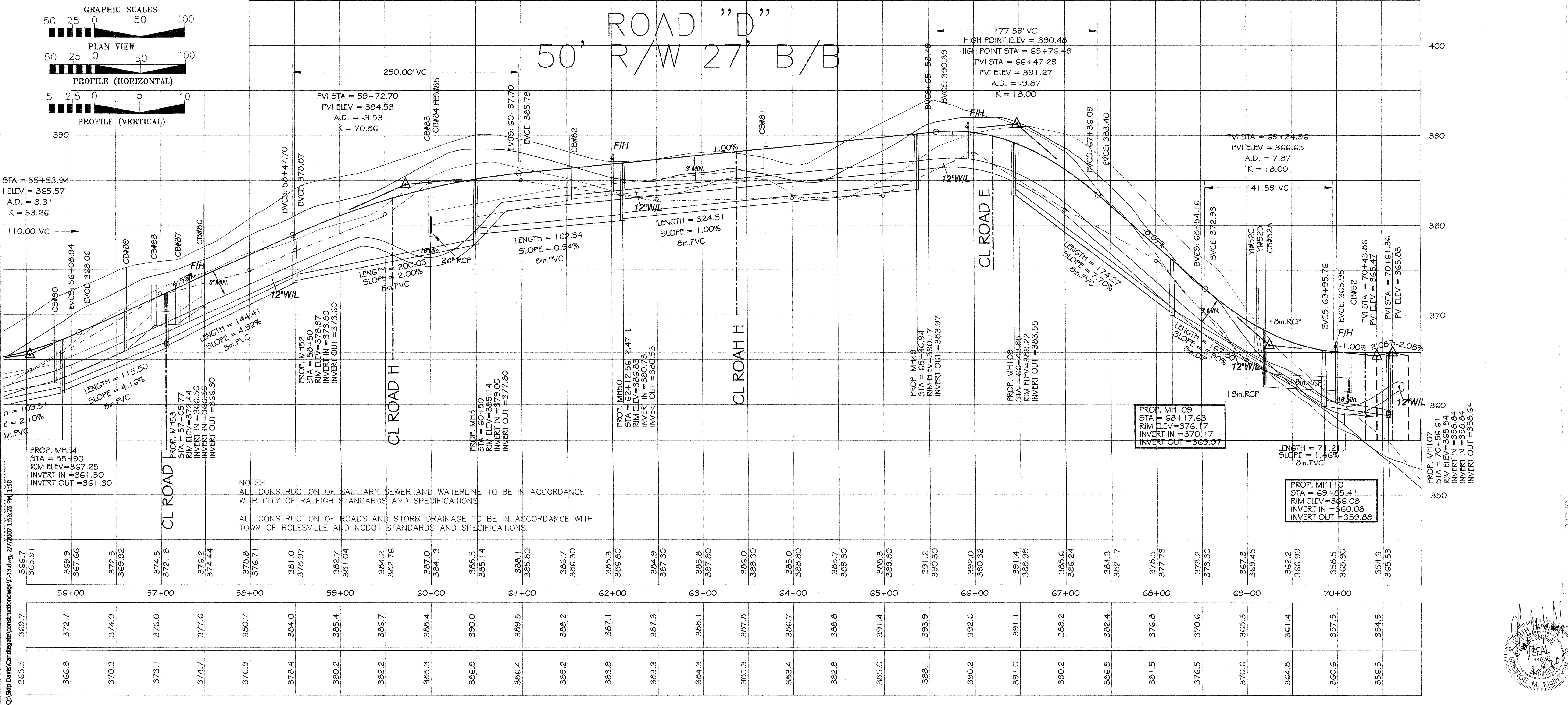
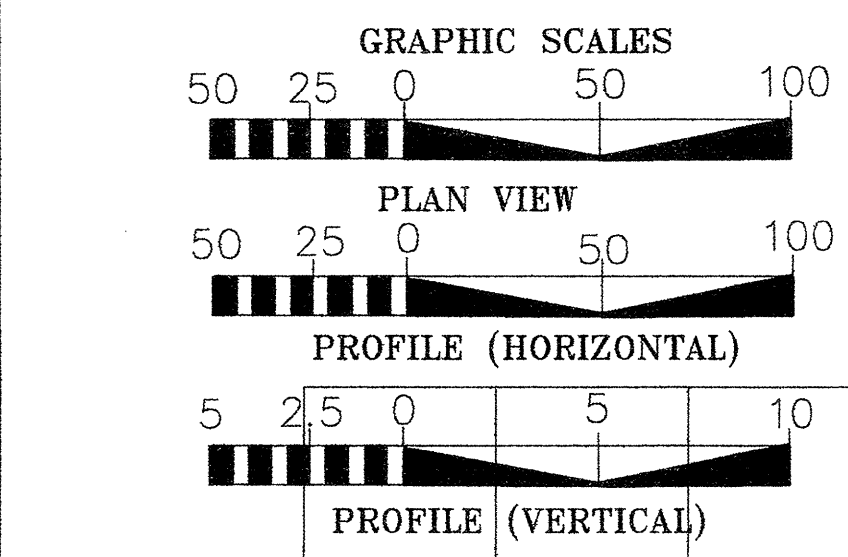
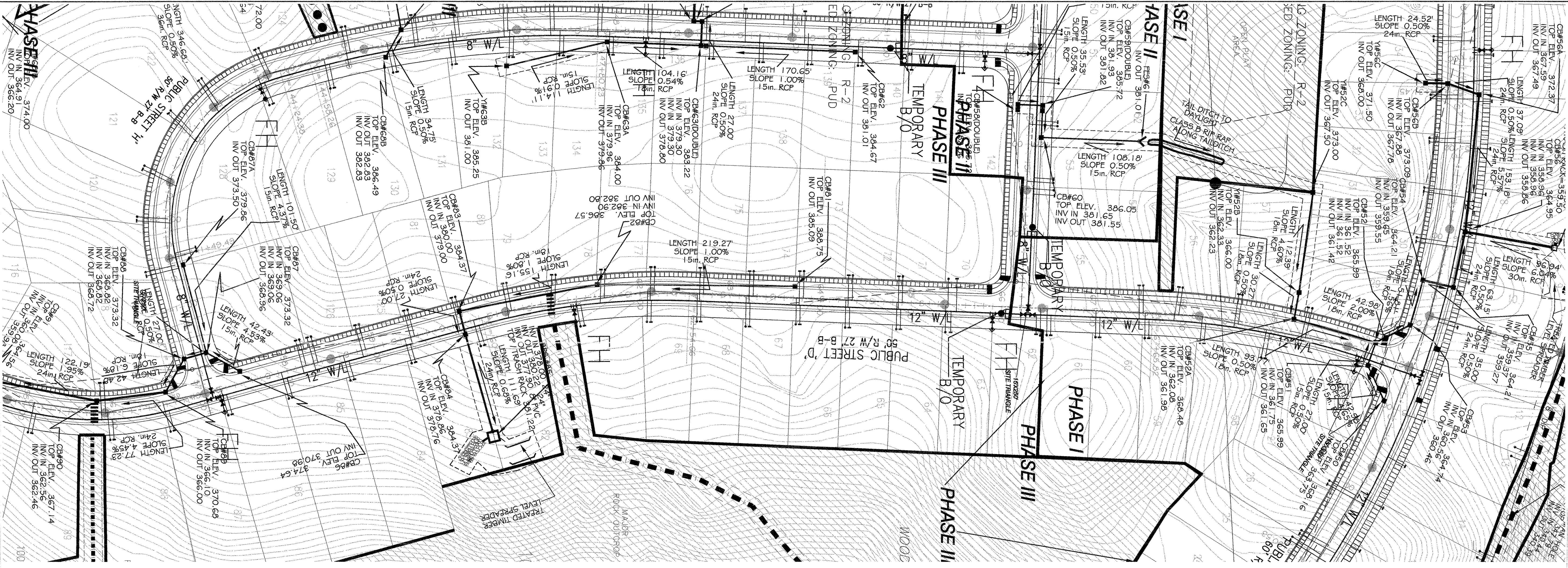
NOTES:  
 ALL CONSTRUCTION OF SANITARY SEWER AND WATERLINE TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.  
 ALL CONSTRUCTION OF ROADS AND STORM DRAINAGE TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.

# ROAD "D" 50' R/W 27' B/B

PUBLIC  
 Water Distribution/Extension System  
 The City of Raleigh consents to the connection to the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.  
 City of Raleigh  
 Public Utilities Department Permit: W-2440  
 Construction Approval: RW 9/13/06  
 Date: \_\_\_\_\_







NOTES:  
 ALL CONSTRUCTION OF SANITARY SEWER AND WATERLINE TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.  
 ALL CONSTRUCTION OF ROADS AND STORM DRAINAGE TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.

PUBLIC  
 Sewer Collection/Extension System  
 The City of Raleigh consents to the connection to the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.

City of Raleigh  
 Public Utilities Department Permit: 2453  
 Construction Approval: [Signature]  
 Date: 9/13/04

PUBLIC  
 Water Distribution/Extension System  
 The City of Raleigh consents to the connection to the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.

City of Raleigh  
 Public Utilities Department Permit: 2446  
 Construction Approval: [Signature]  
 Date: 9/13/04

McIntyre & Associates, PLLC  
 Engineering & Land Planners  
 4332-B Wendy Hill Drive  
 Raleigh, NC 27609  
 (919) 876-0145 (Office)  
 (919) 876-0899 (Fax)

CARLTON POINTE SUBDIVISION  
 ROAD "D" PLAN AND PROFILE (CONT.)  
 ROLESVILLE, WAKE COUNTY

DATE: 9/13/04
SCALE: 1"=25'
PROJECT: CARLTON POINTE SUBDIVISION
DRAWN BY: [Name]
CHECKED BY: [Name]
APPROVED BY: [Name]
START DATE: 10-05
JOB CODE: [Code]

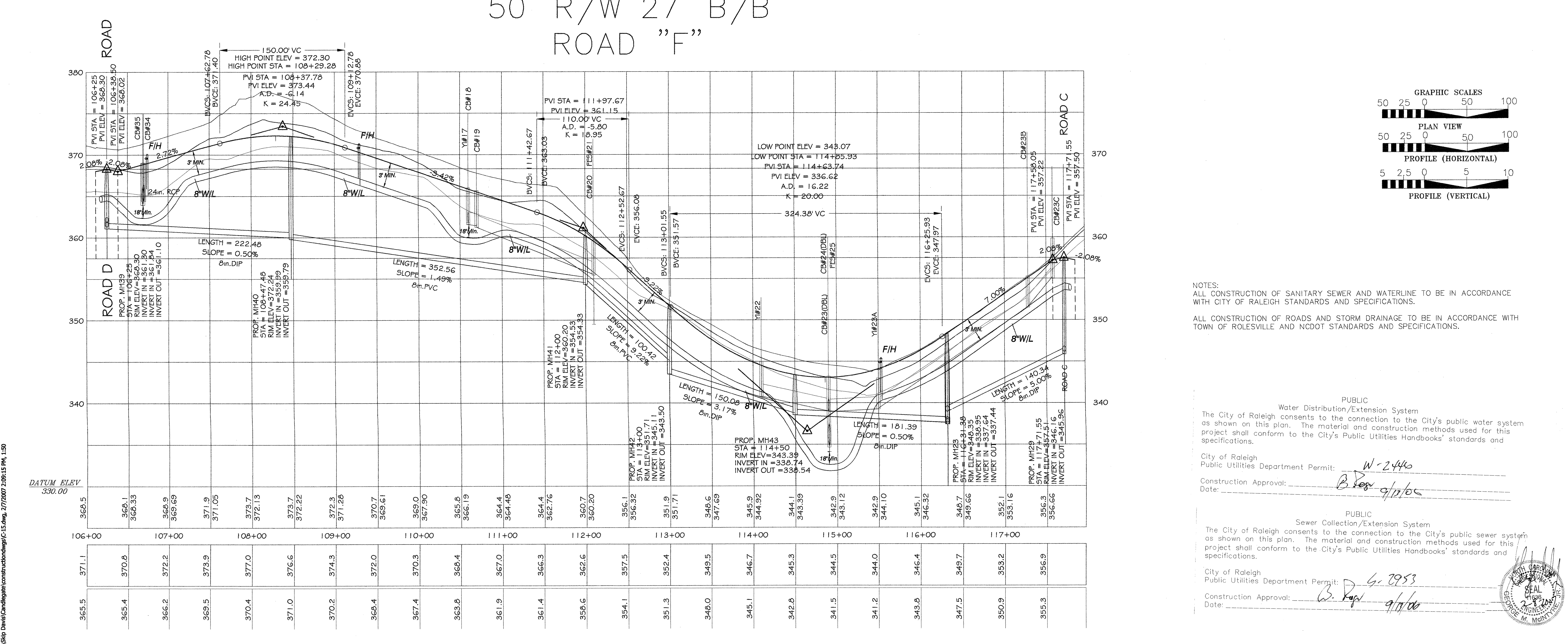
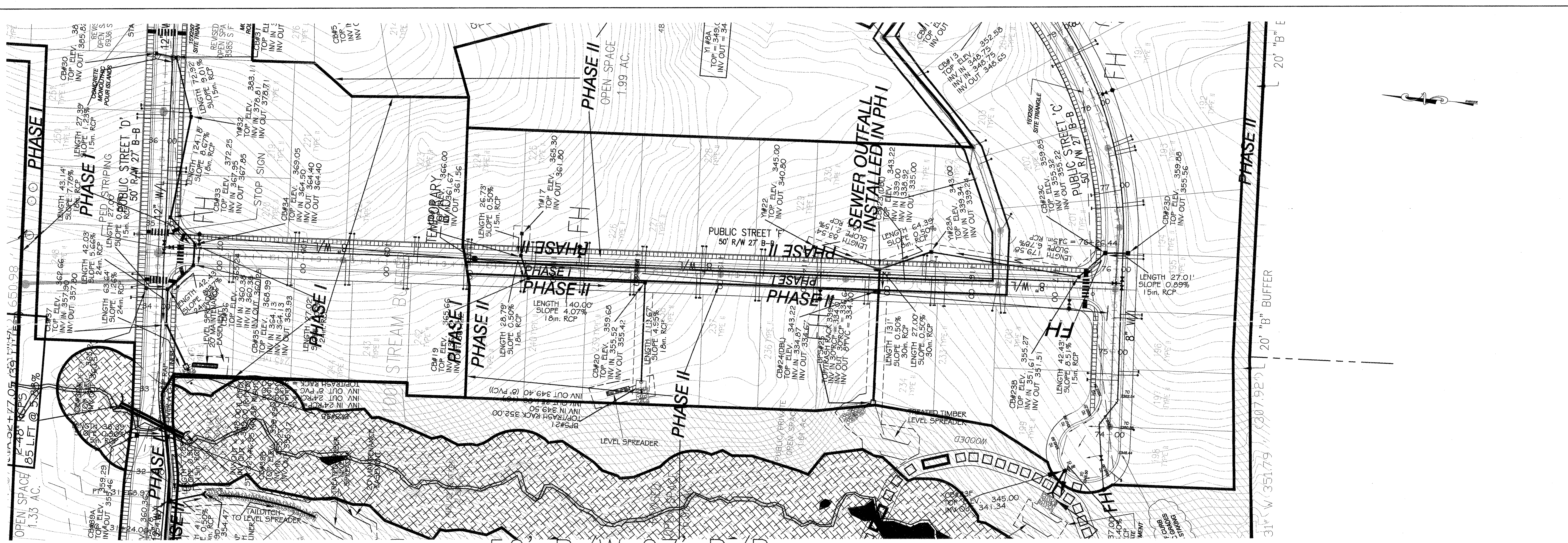
CLIENT  
 CARLTON GROUP OF NC  
 20 SQUADRON BLVD  
 NEW CITY, NEW YORK 10956  
 845-638-9300

DRAWN: [Name]  
 CHECKED: [Name]  
 APPROVED: [Name]  
 START DATE: 10-05  
 JOB CODE: [Code]  
 DRAWING No.  
 C-13









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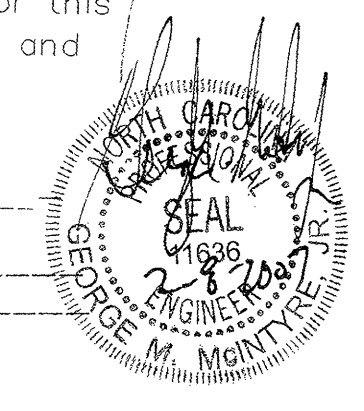
Maintre & Associates, PLLC  
Engineering & Land Planners  
4532-B Woodmill Drive  
Raleigh, NC 27609  
(919) 876-0145 (Office)  
(919) 876-0899 (Fax)

CARLTON POINTE SUBDIVISION  
ROAD "F" PLAN AND PROFILE  
ROLESVILLE, WAKE COUNTY

REVISIONS	
NO.	DESCRIPTION

CLIENT  
CARLTON GROUP OF NC  
20 SQUADRON BLVD  
NEW CITY, NEW YORK 10956  
845-638-9300

DRAWN: DRD  
CHECKED: GMM  
APPROVED: GMM  
START DATE: 10-05  
JOB CODE: C-15



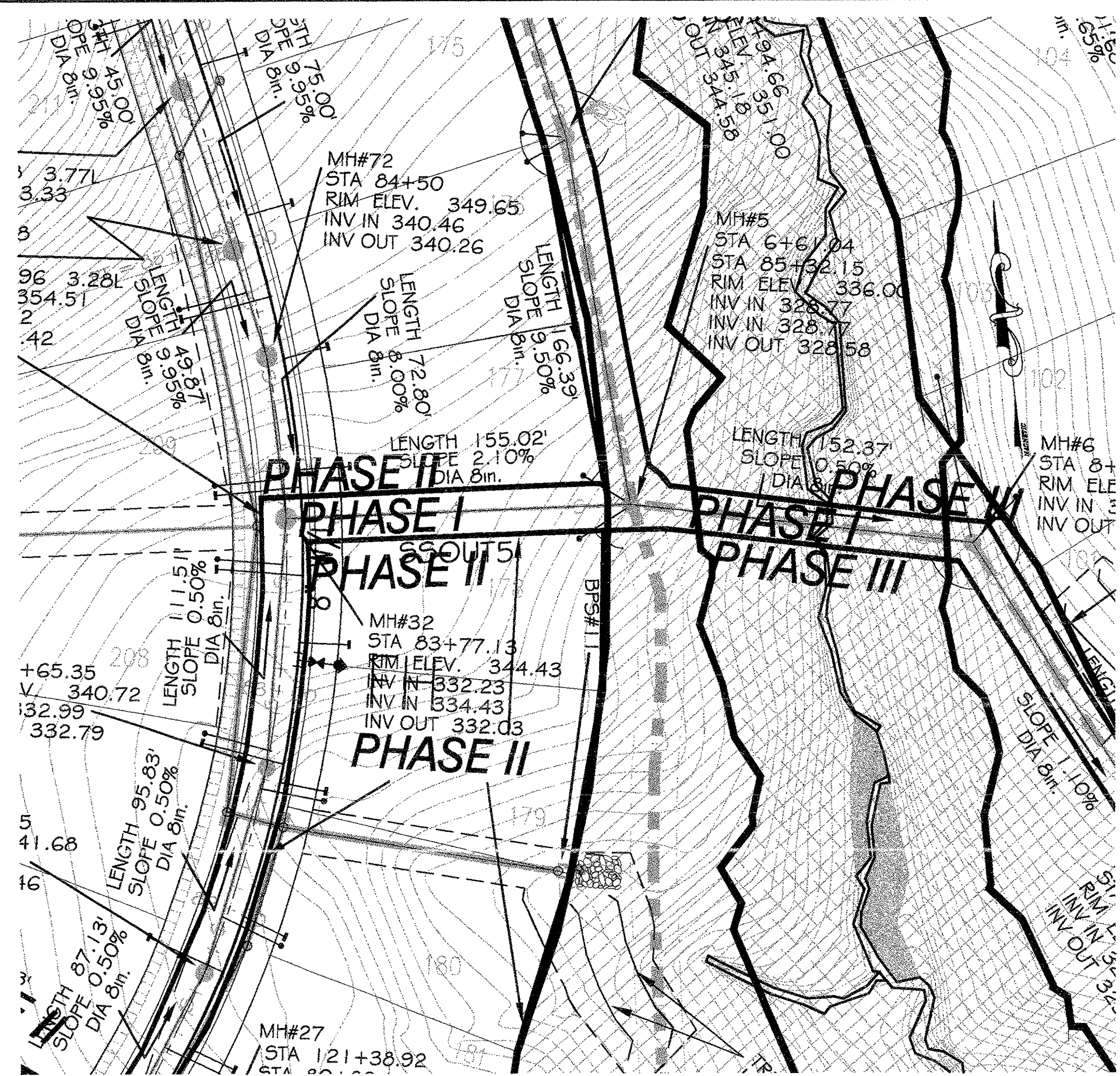




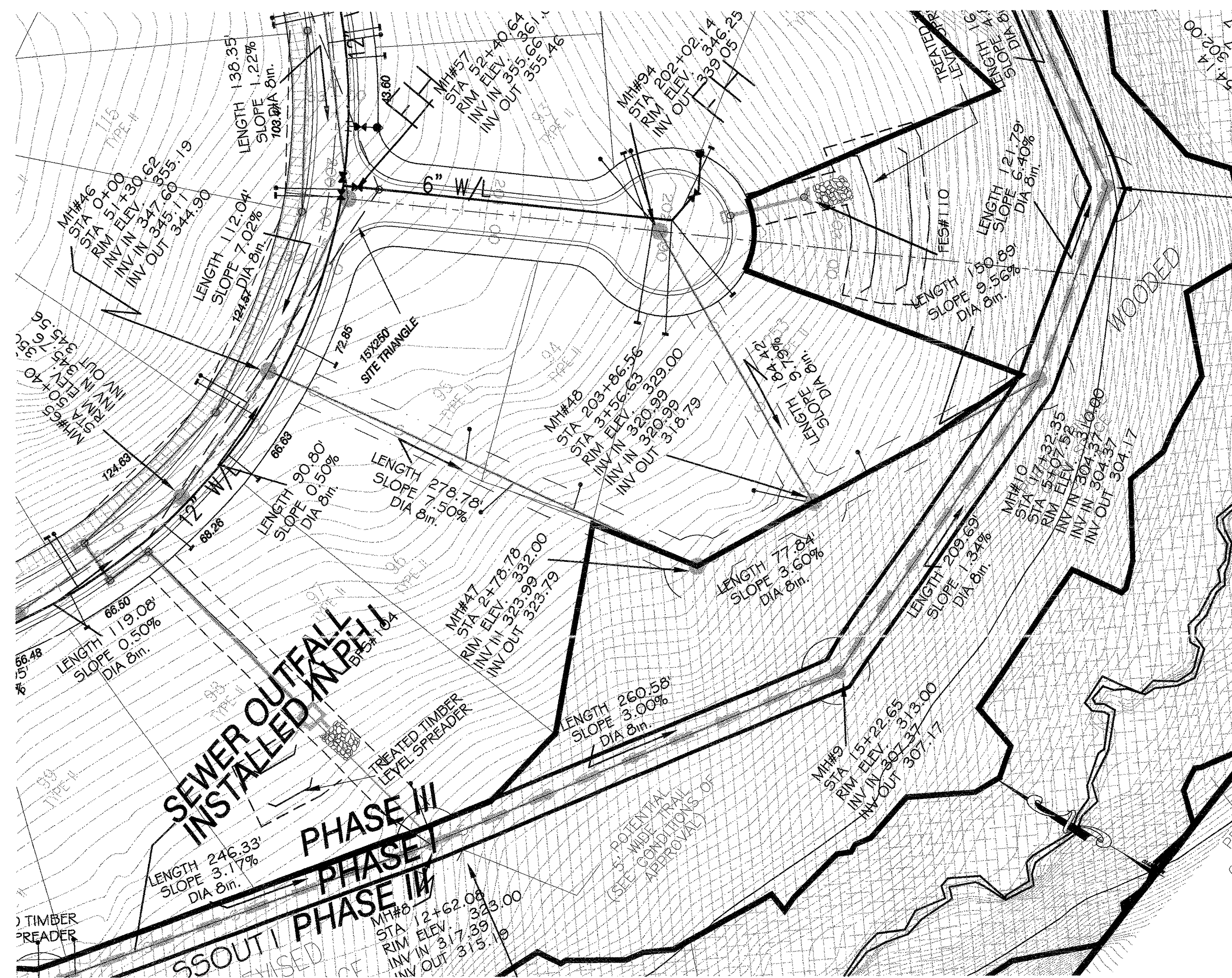




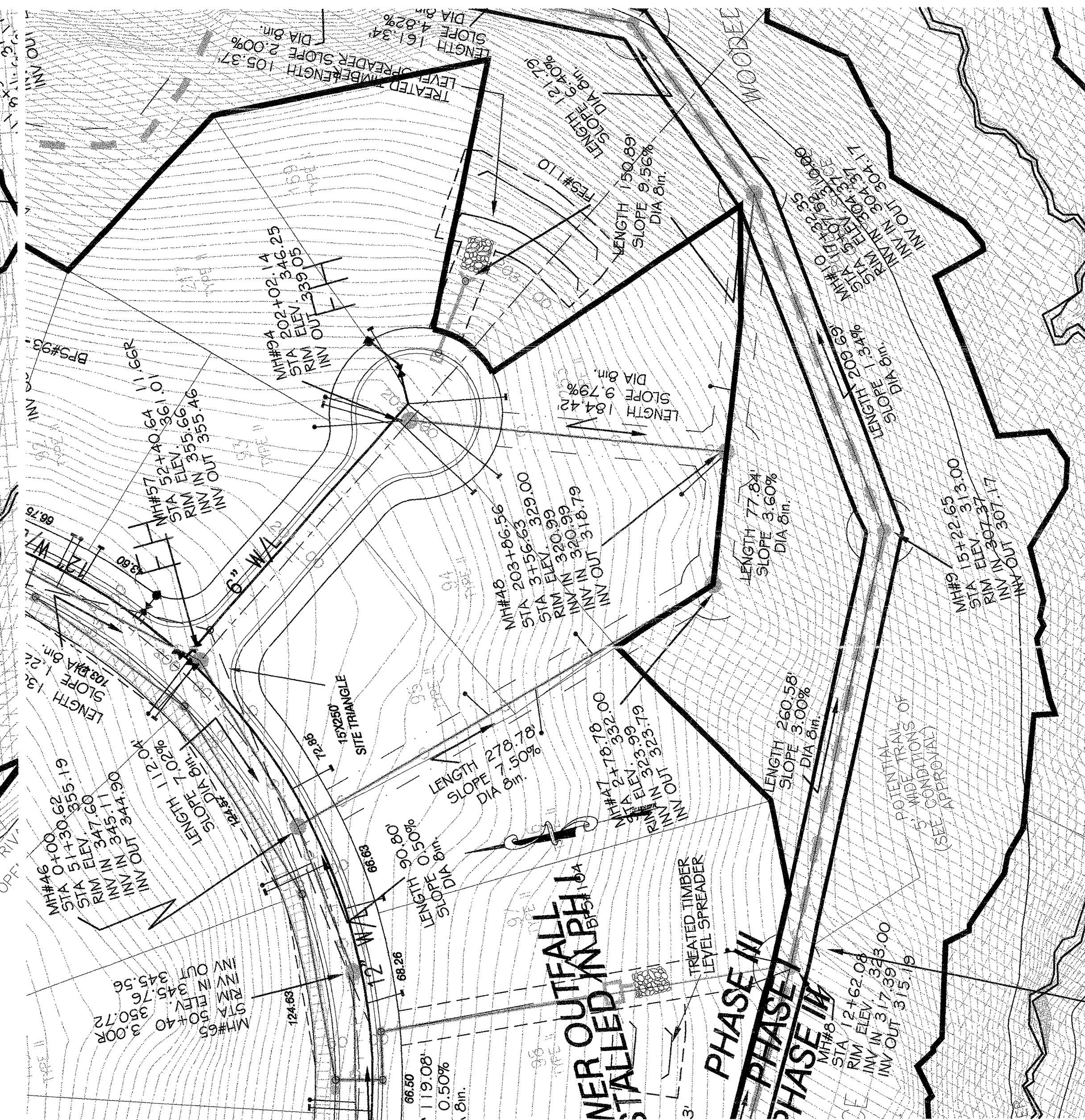




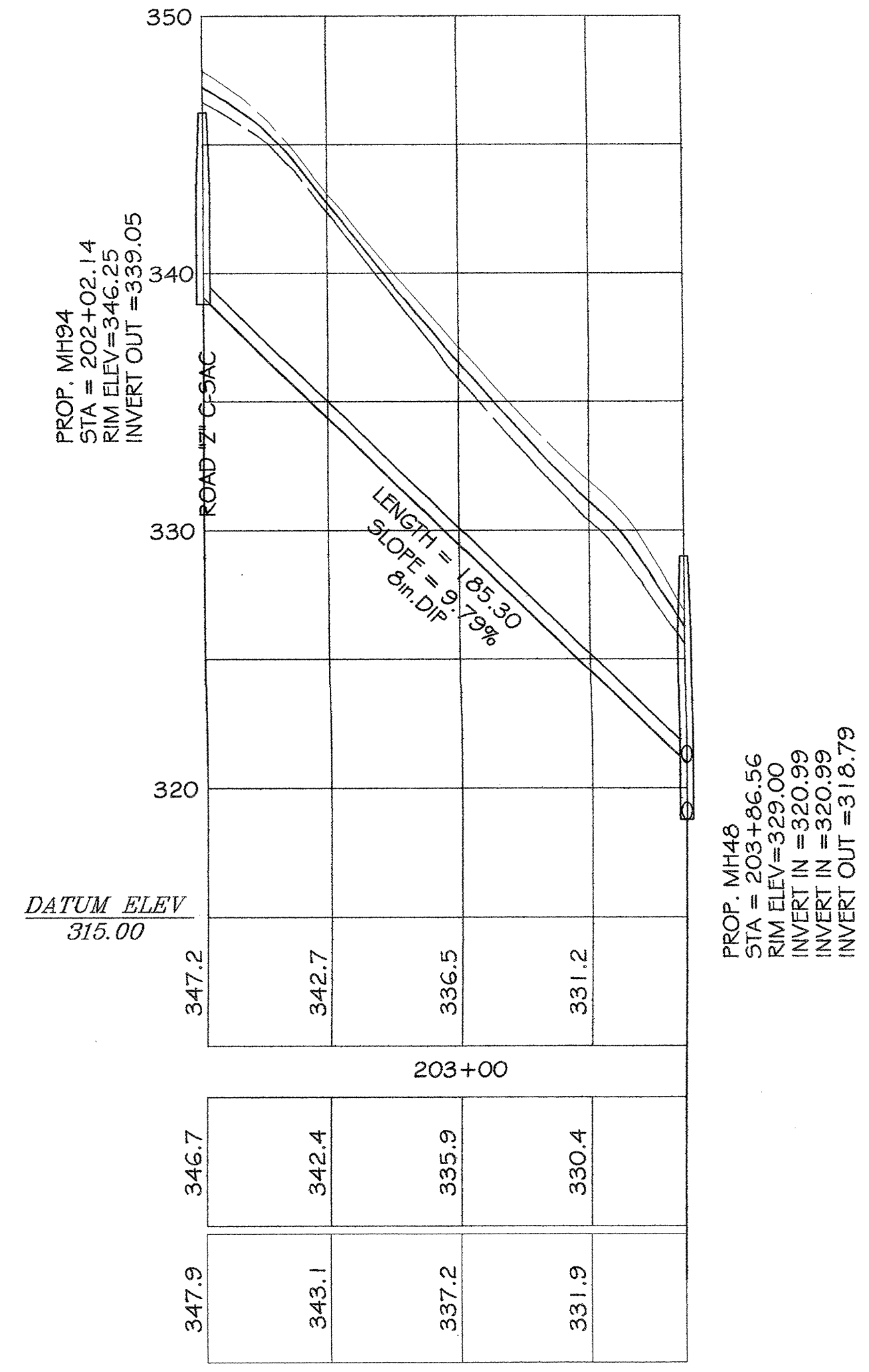
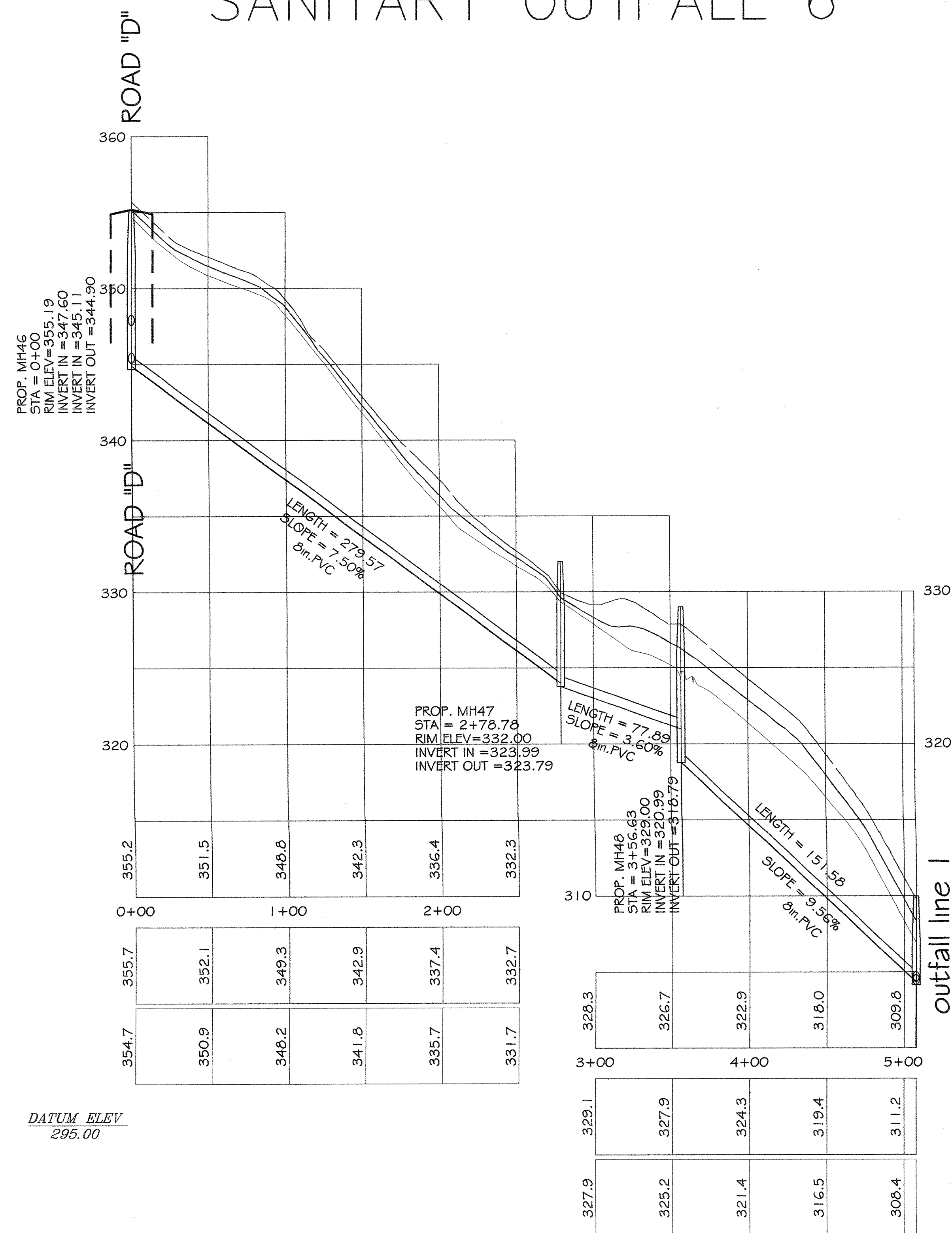
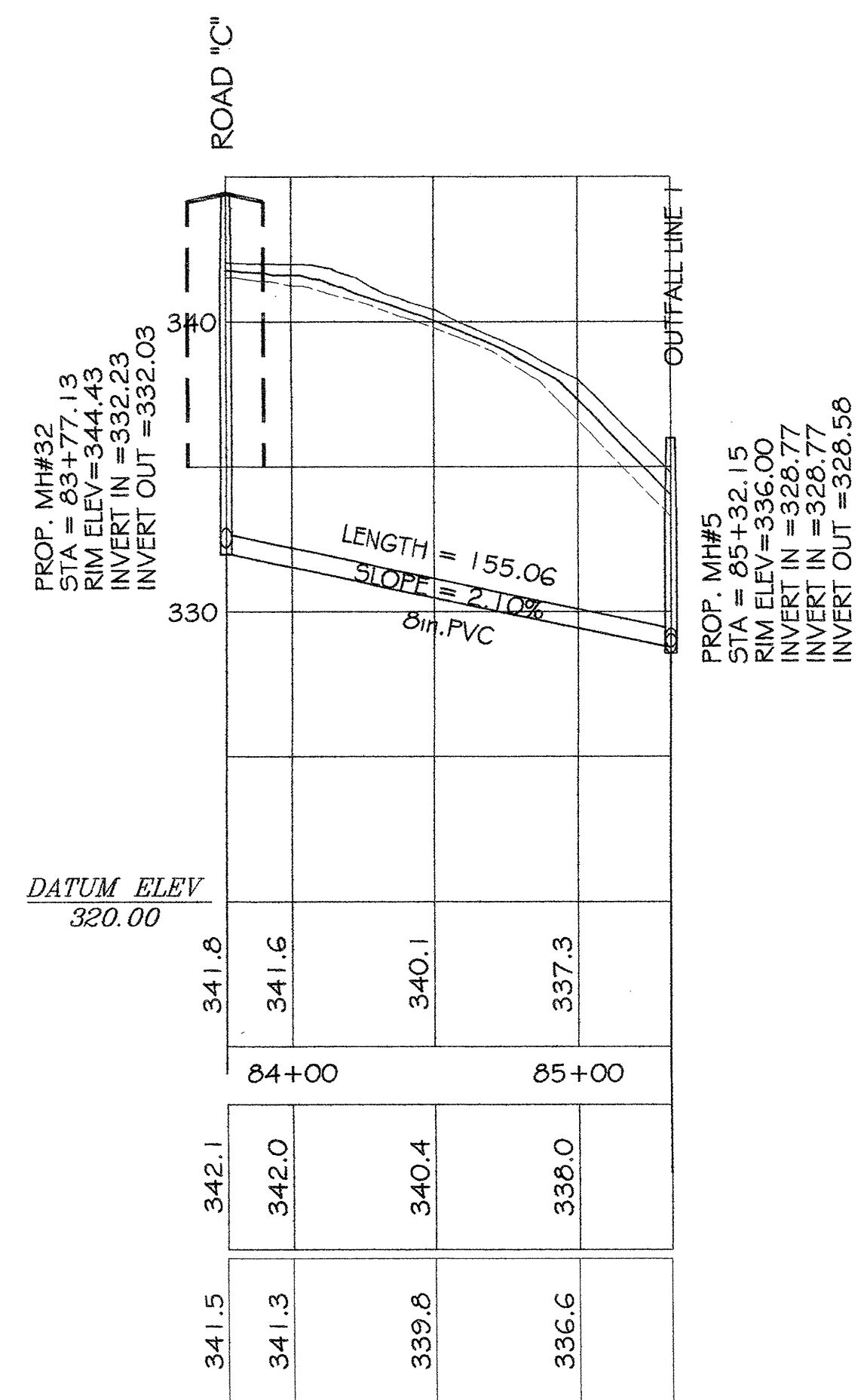
SANITARY OUTFALL 5



SANITARY OUTFALL 6



SANITARY OUTFALL 7



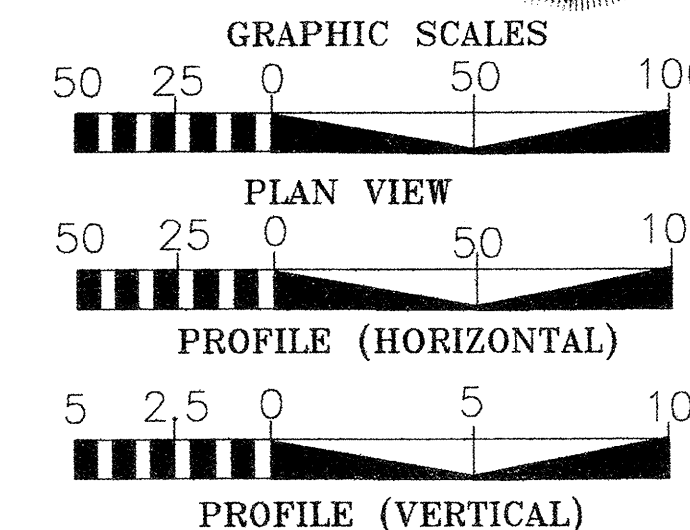
NOTES:  
 ALL CONSTRUCTION OF SANITARY SEWER AND WATERLINE TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.  
 ALL CONSTRUCTION OF ROADS AND STORM DRAINAGE TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.

PUBLIC Water Distribution/Extension System  
 The City of Raleigh consents to the connection to the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.

City of Raleigh Public Utilities Department Permit: \_\_\_\_\_  
 Construction Approval: \_\_\_\_\_  
 Date: \_\_\_\_\_

PUBLIC Sewer Collection/Extension System  
 The City of Raleigh consents to the connection to the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.

City of Raleigh Public Utilities Department Permit: \_\_\_\_\_  
 Construction Approval: \_\_\_\_\_  
 Date: \_\_\_\_\_



McIntyre & Associates, PLLC  
 Engineering & Land Planners  
 4832-B Windy Hill Drive  
 Raleigh, NC 27609  
 (919) 876-0145 (Office)  
 (919) 876-0899 (Fax)

CARLTON POINTE SUBDIVISION  
 SANITARY OUTFALLS 5, 6, 7 - PLAN AND PROFILE  
 ROLESVILLE, WAKE COUNTY

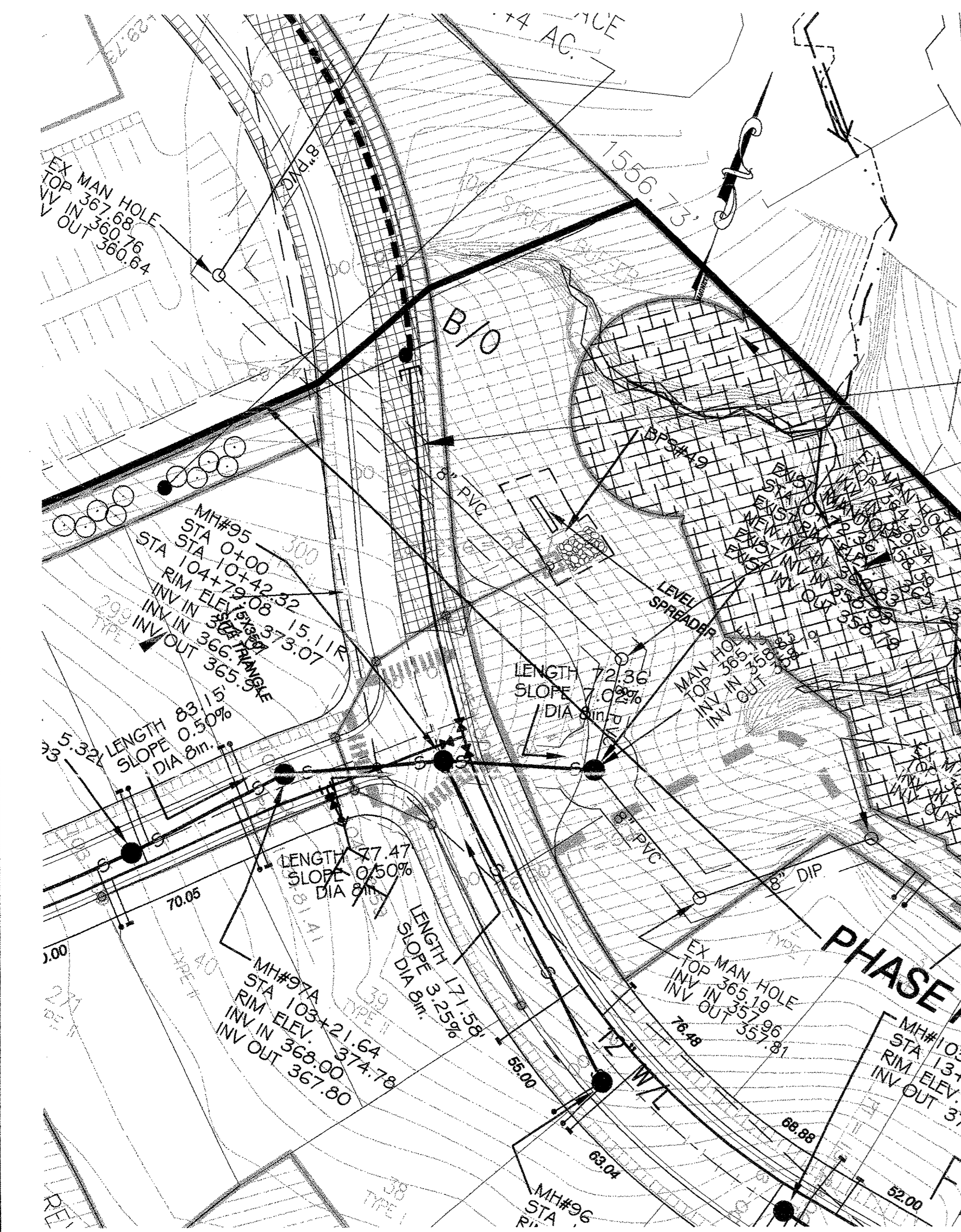
REVISIONS

NO.	DATE	DESCRIPTION

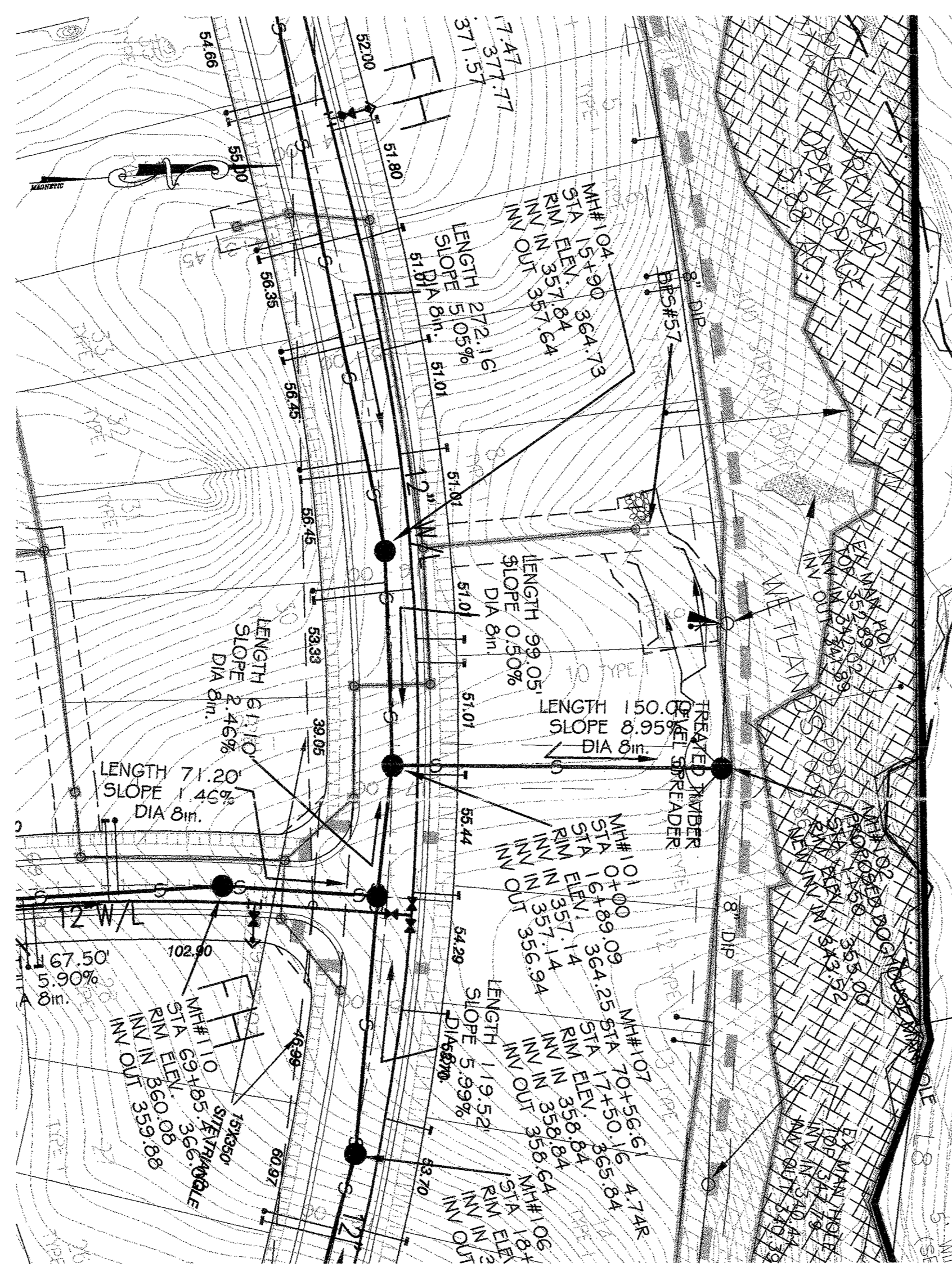
CARLTON GROUP OF NC  
 20 SQUADRON BLVD  
 NEW CITY, NEW YORK 10956  
 845-638-9300

DRAWN: DRD  
 CHECKED: GMM  
 APPROVED: GMM  
 START DATE: 10-05  
 JOB CODE: \_\_\_\_\_  
 DRAWING No. C-21

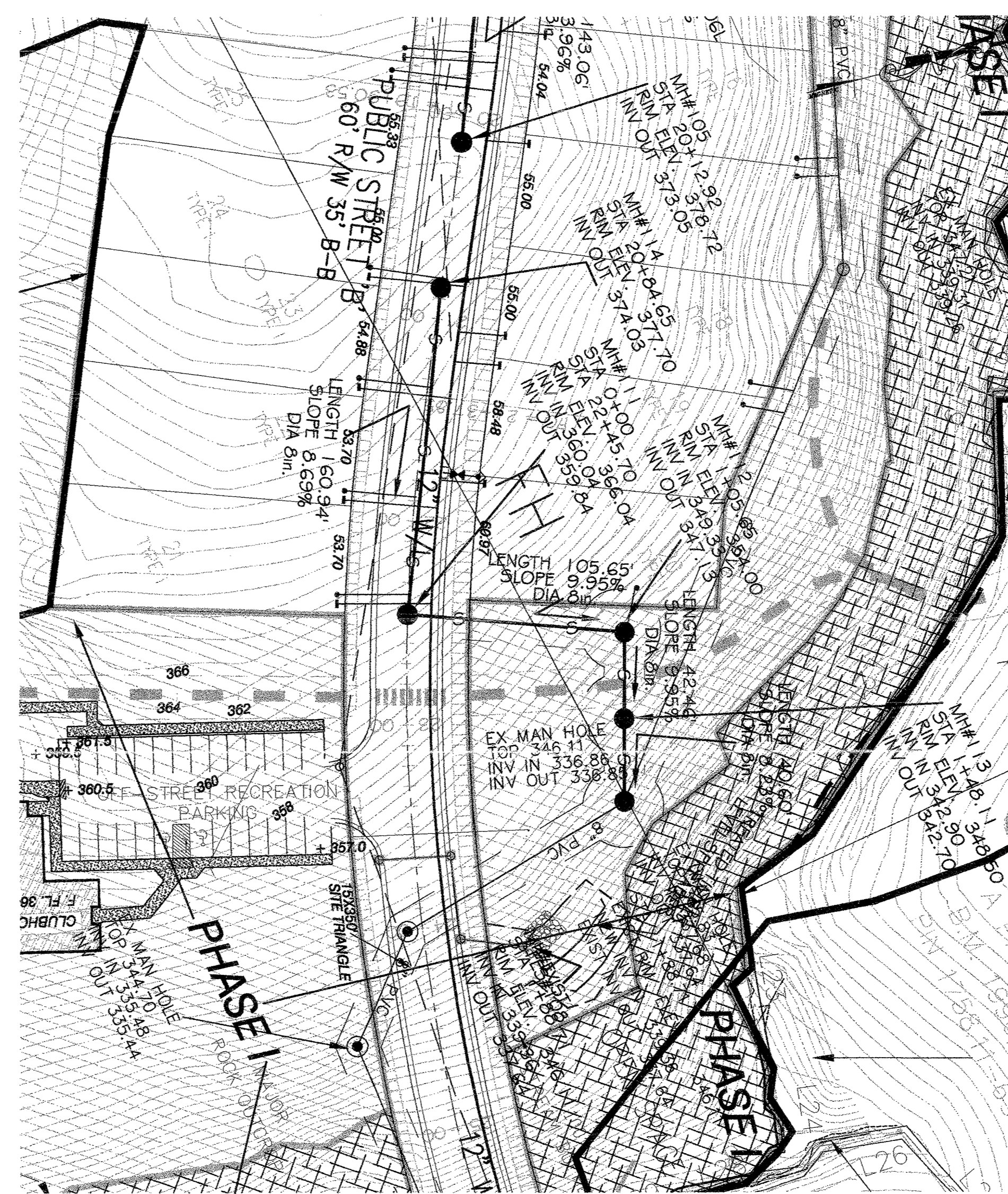




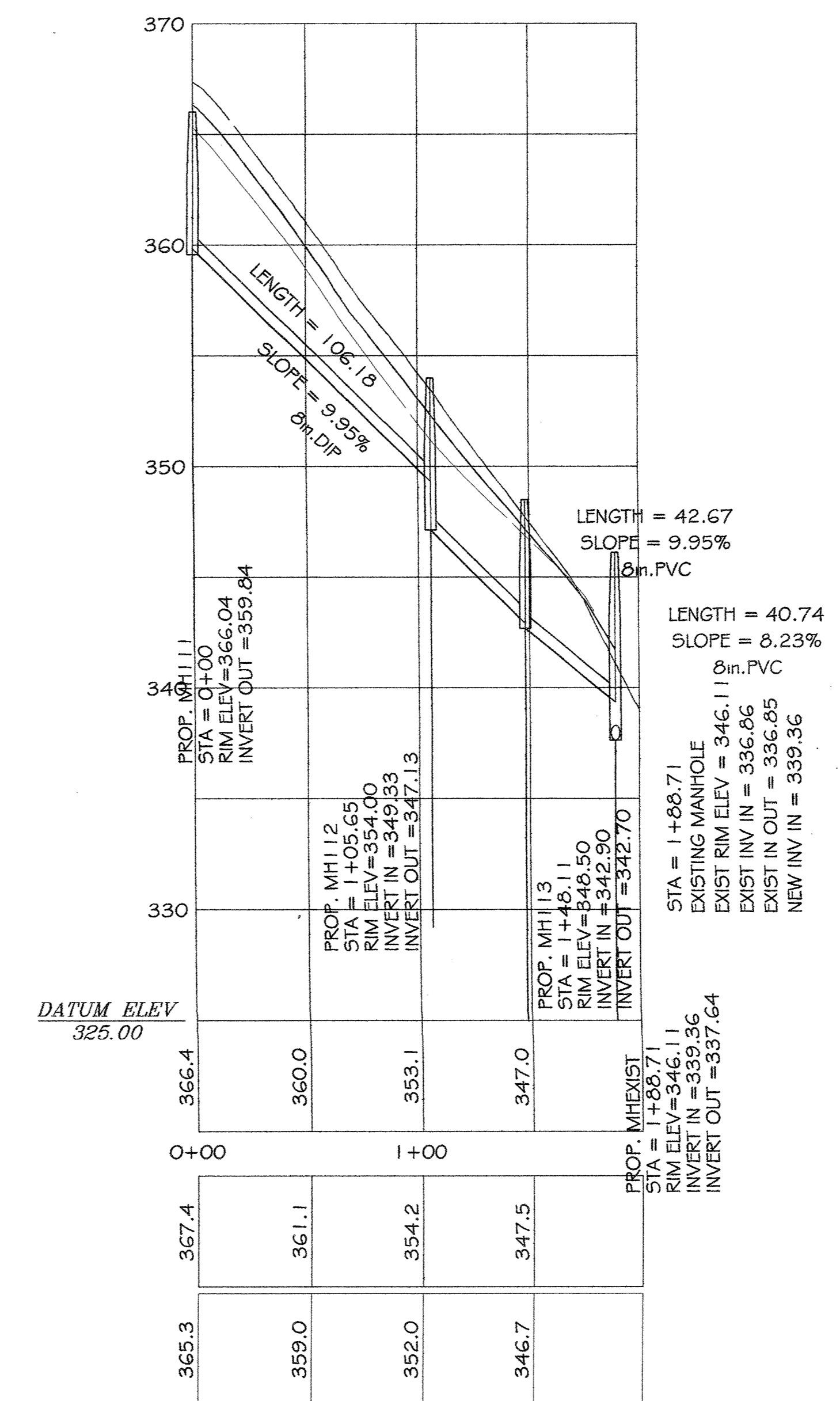
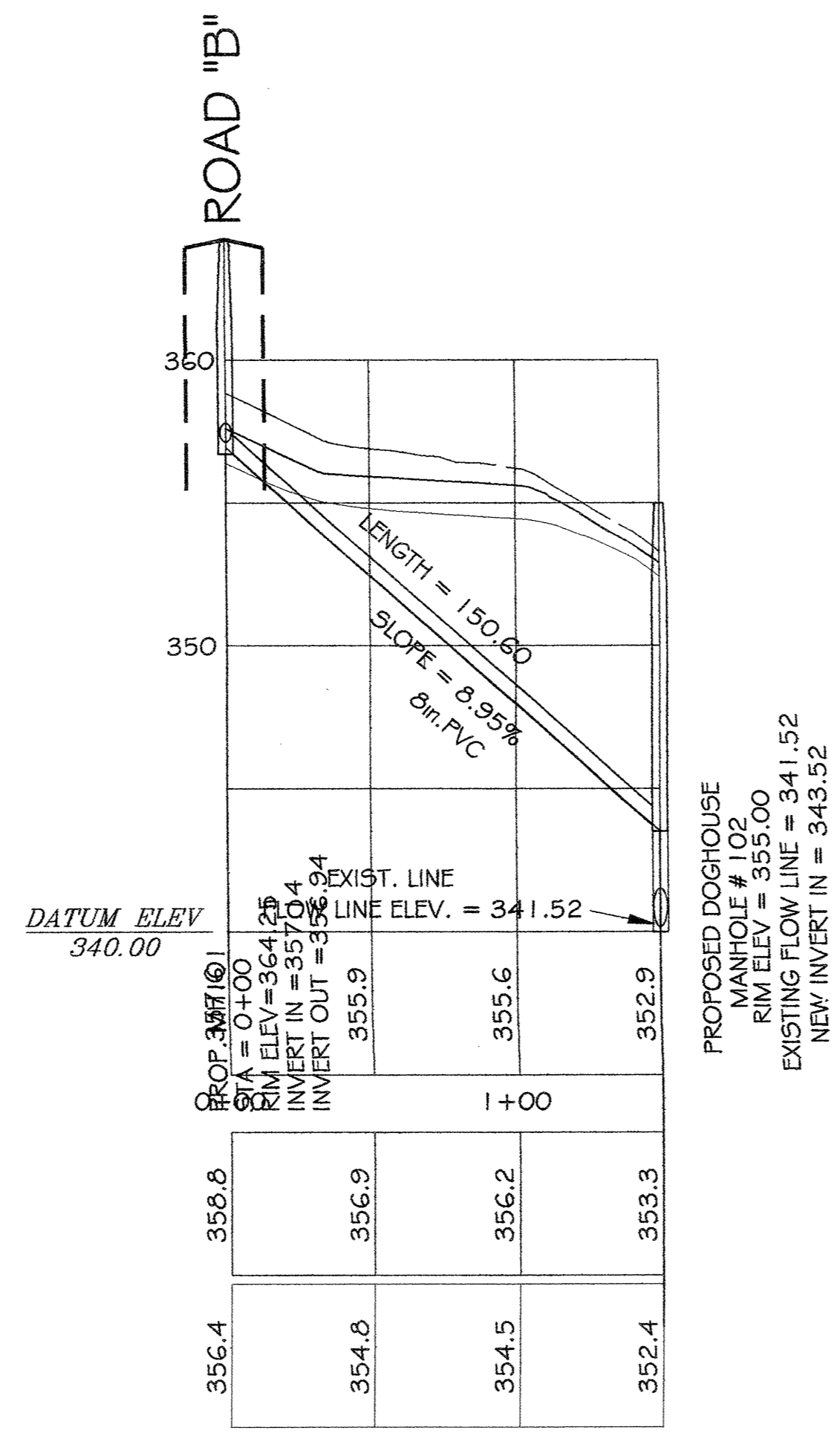
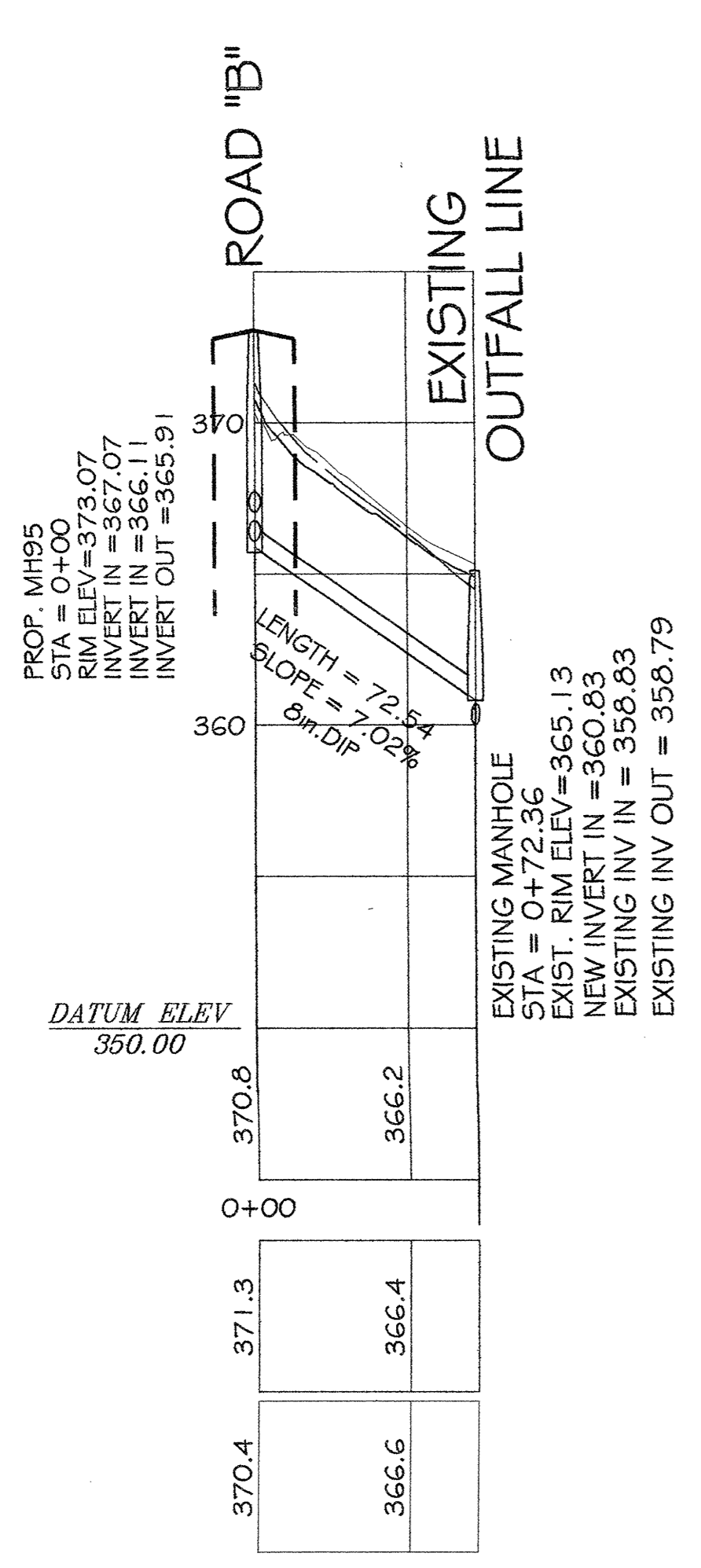
SANITARY OUTFALL 8



SANITARY OUTFALL 9



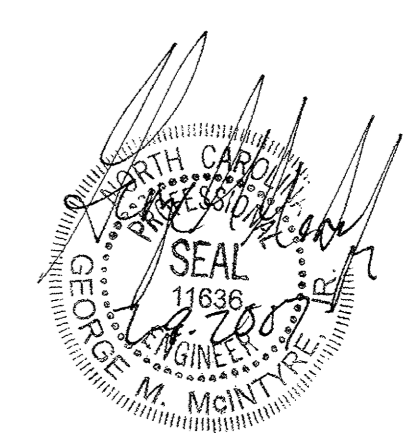
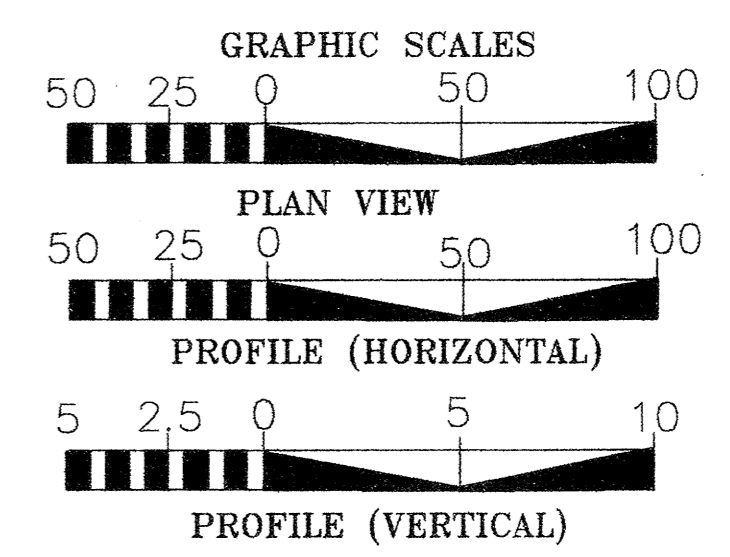
SANITARY OUTFALL 10



NOTES:  
ALL CONSTRUCTION OF SANITARY SEWER AND WATERLINE TO BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.  
ALL CONSTRUCTION OF ROADS AND STORM DRAINAGE TO BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.

PUBLIC  
Water Distribution/Extension System  
The City of Raleigh consents to the connection to the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.  
City of Raleigh  
Public Utilities Department Permit  
Construction Approval: *[Signature]* N-2446  
Date: 9/13/06

PUBLIC  
Sewer Collection/Extension System  
The City of Raleigh consents to the connection to the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the City's Public Utilities Handbooks' standards and specifications.  
City of Raleigh  
Public Utilities Department Permit  
Construction Approval: *[Signature]* S-2953  
Date: 9/13/06



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McIntyre & Associates, PLLC  
Engineering & Land Planners  
4832-B Woody Hill Drive  
Raleigh, NC 27609  
(919) 876-0145 (Office)  
(919) 876-0899 (Fax)

CARLTON POINTE SUBDIVISION  
SANITARY OUTFALLS 8, 9, AND 10 - PLAN AND PROFILE  
ROLESVILLE, WAKE COUNTY

REVISIONS	
NO.	DESCRIPTION

CLIENT  
CARLTON GROUP OF NC  
20 SQUADRON BLVD  
NEW CITY, NEW YORK 10956  
845-638-9300

DRAWN: DRD  
CHECKED: CMM  
APPROVED: CMM  
START DATE: 10-1-05  
JOB CODE:

DRAWING No. C-22







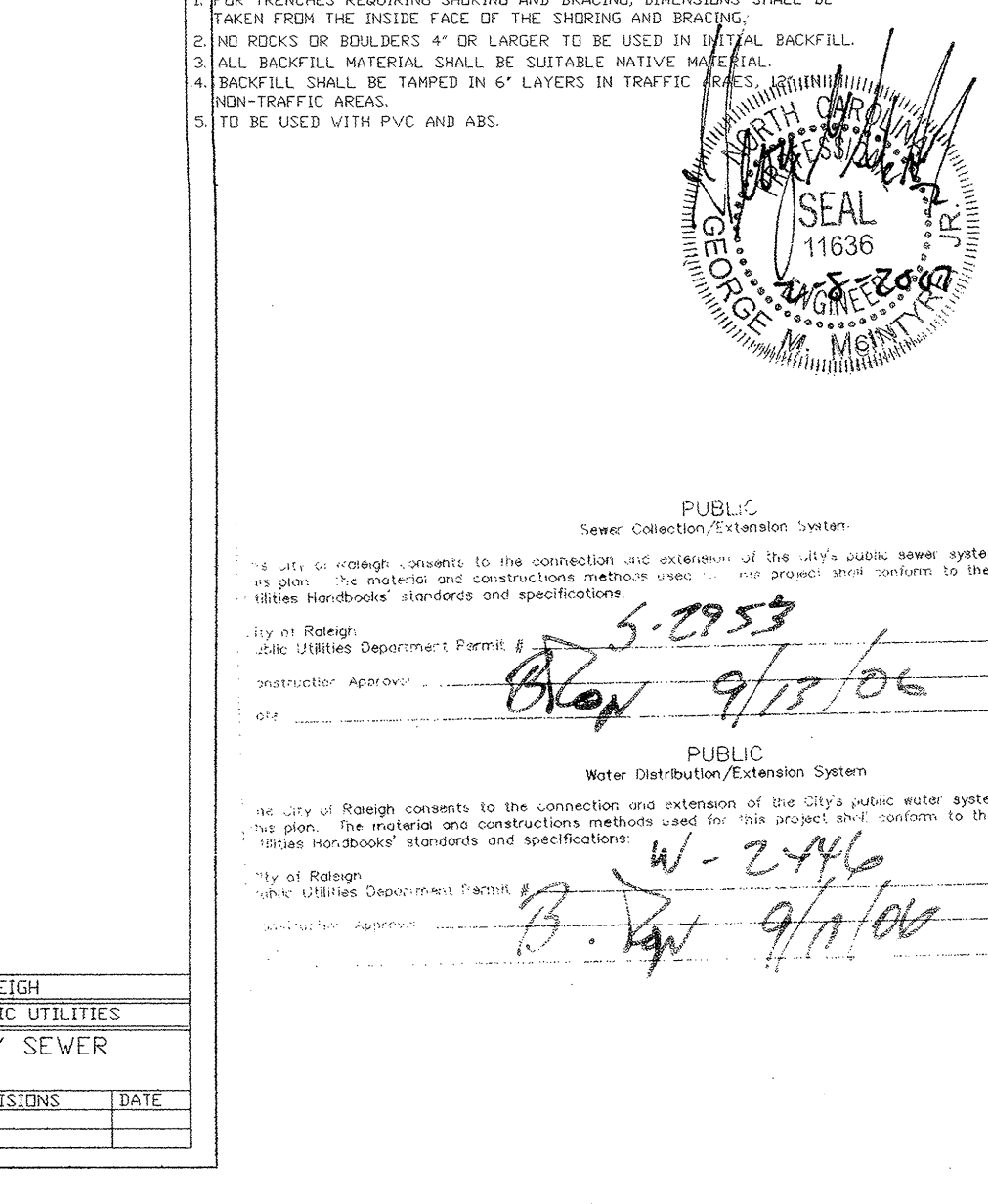
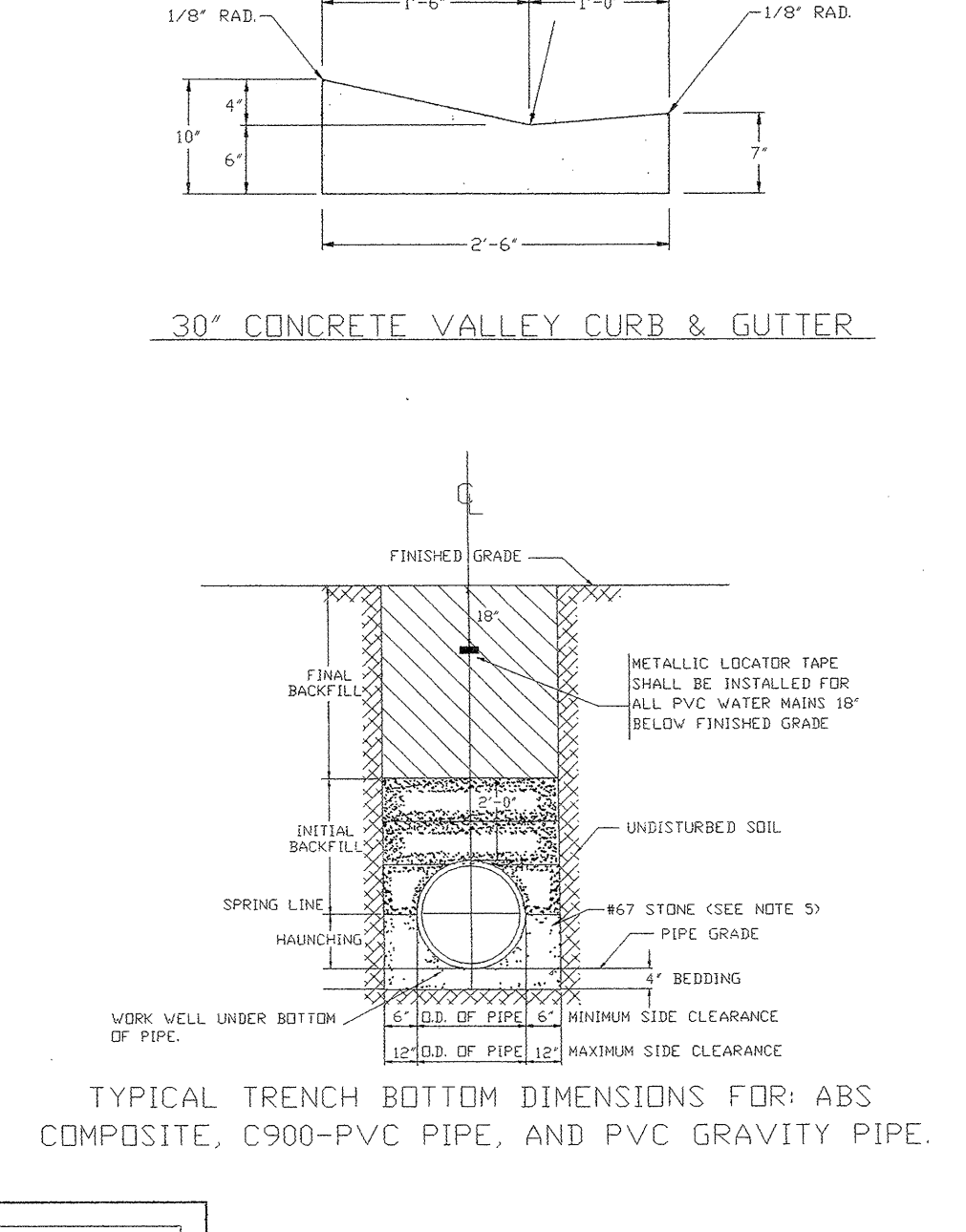
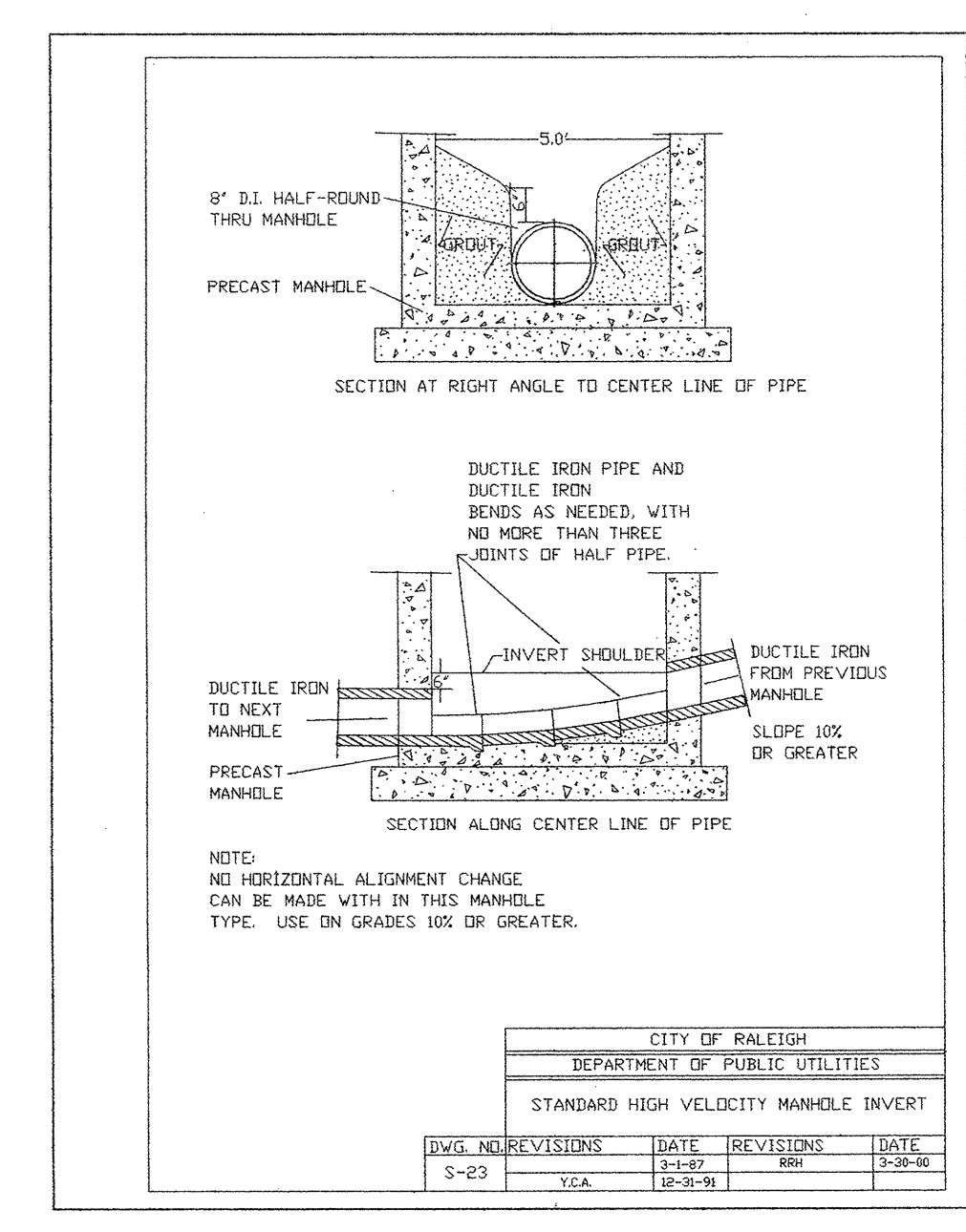
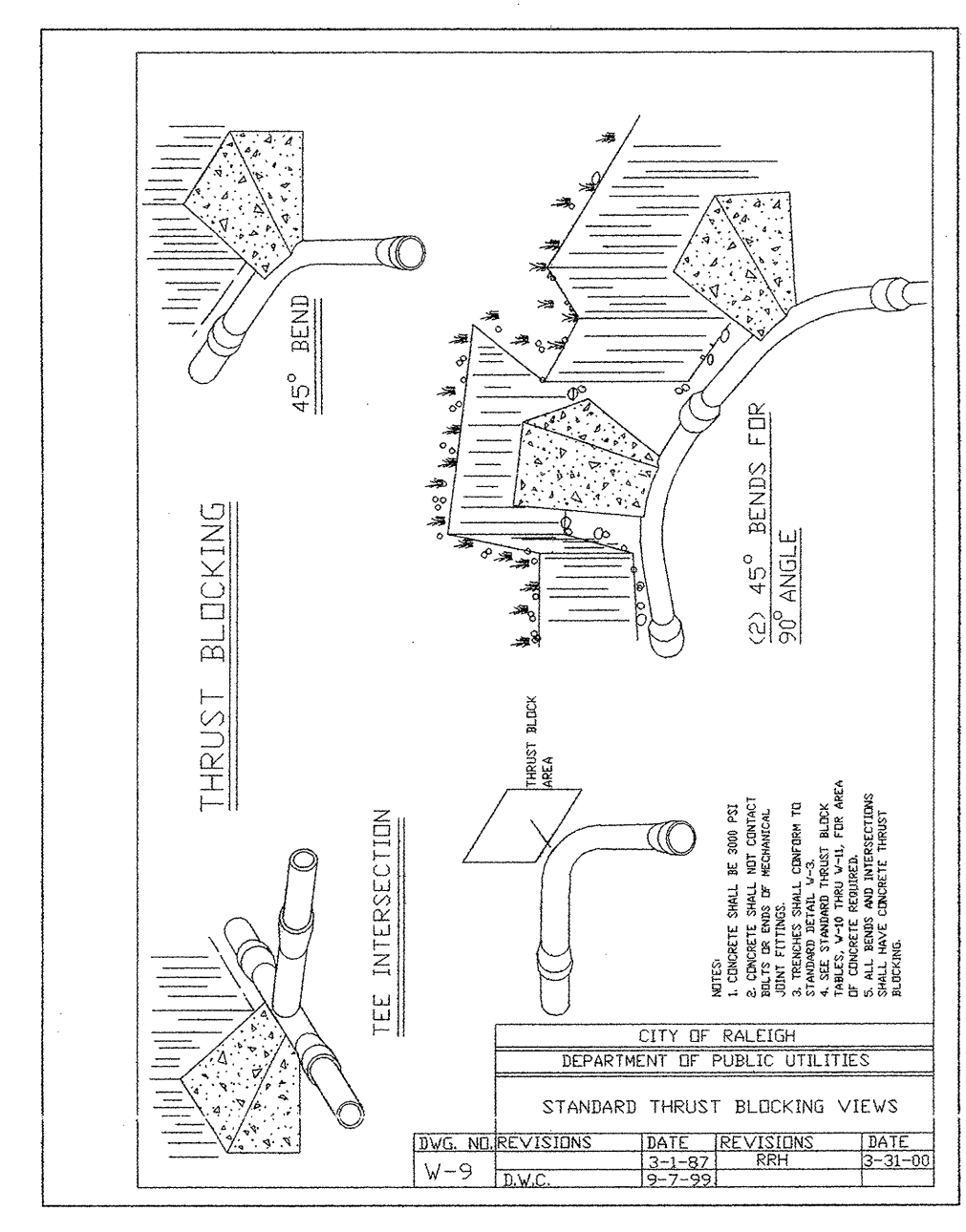
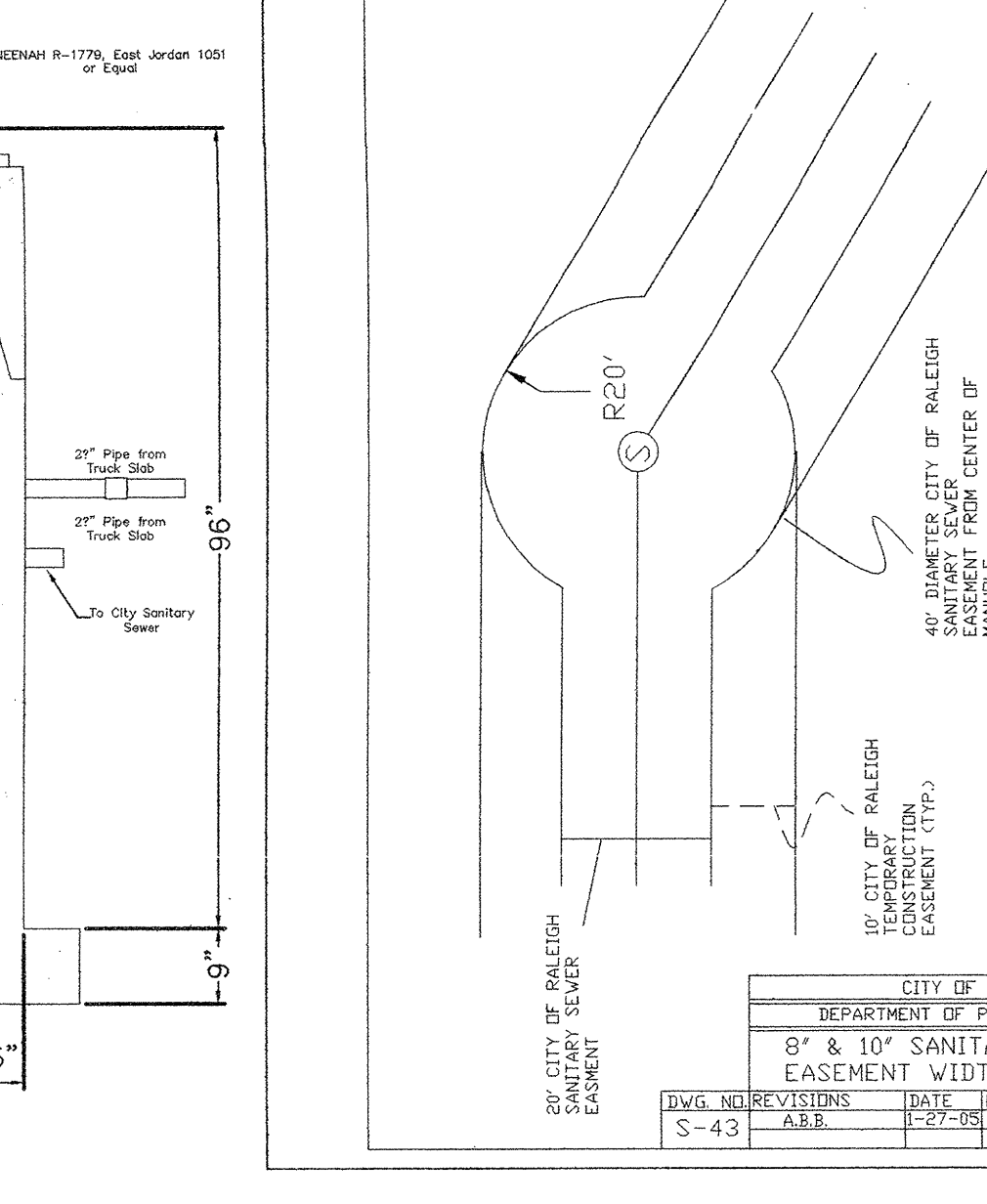
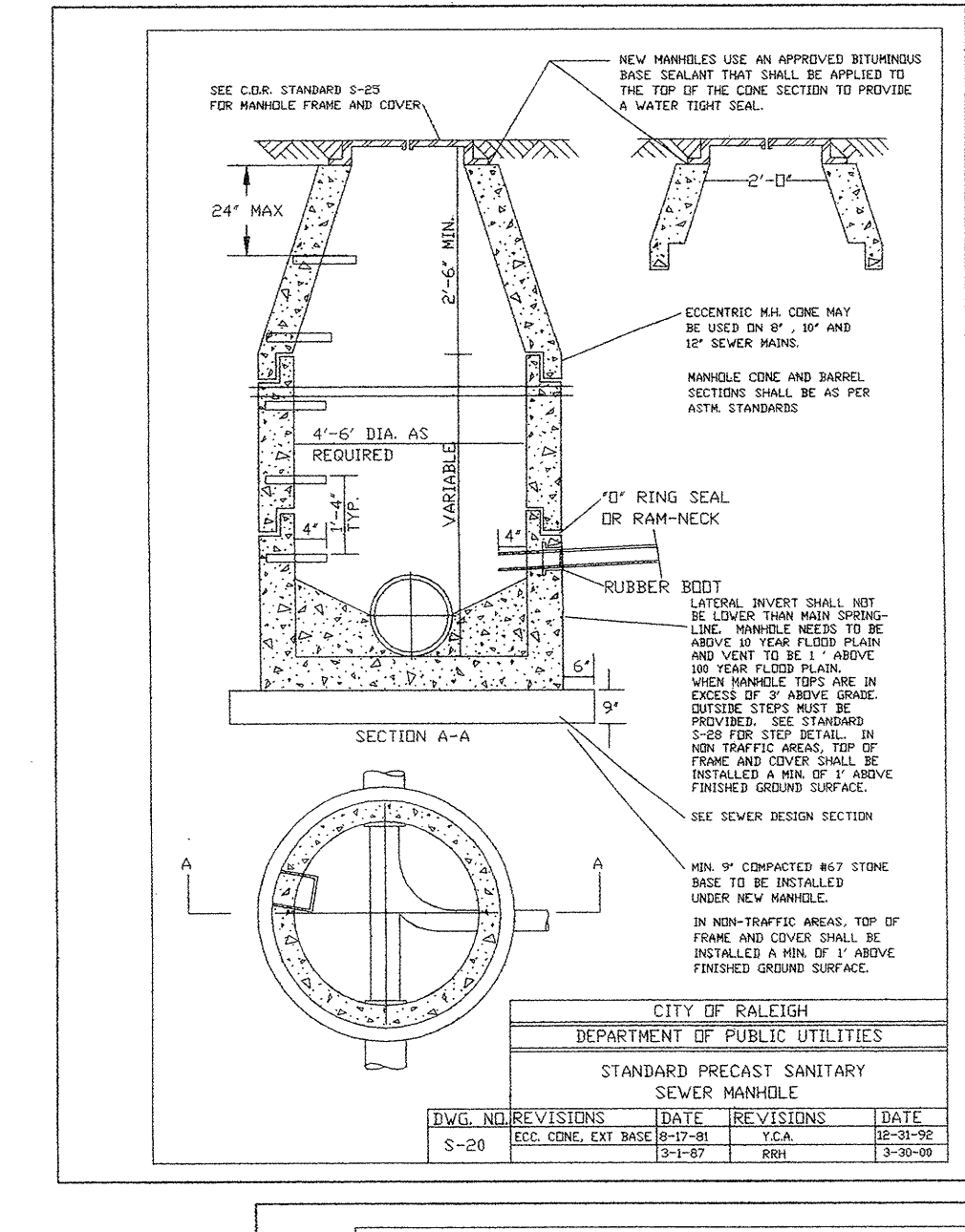
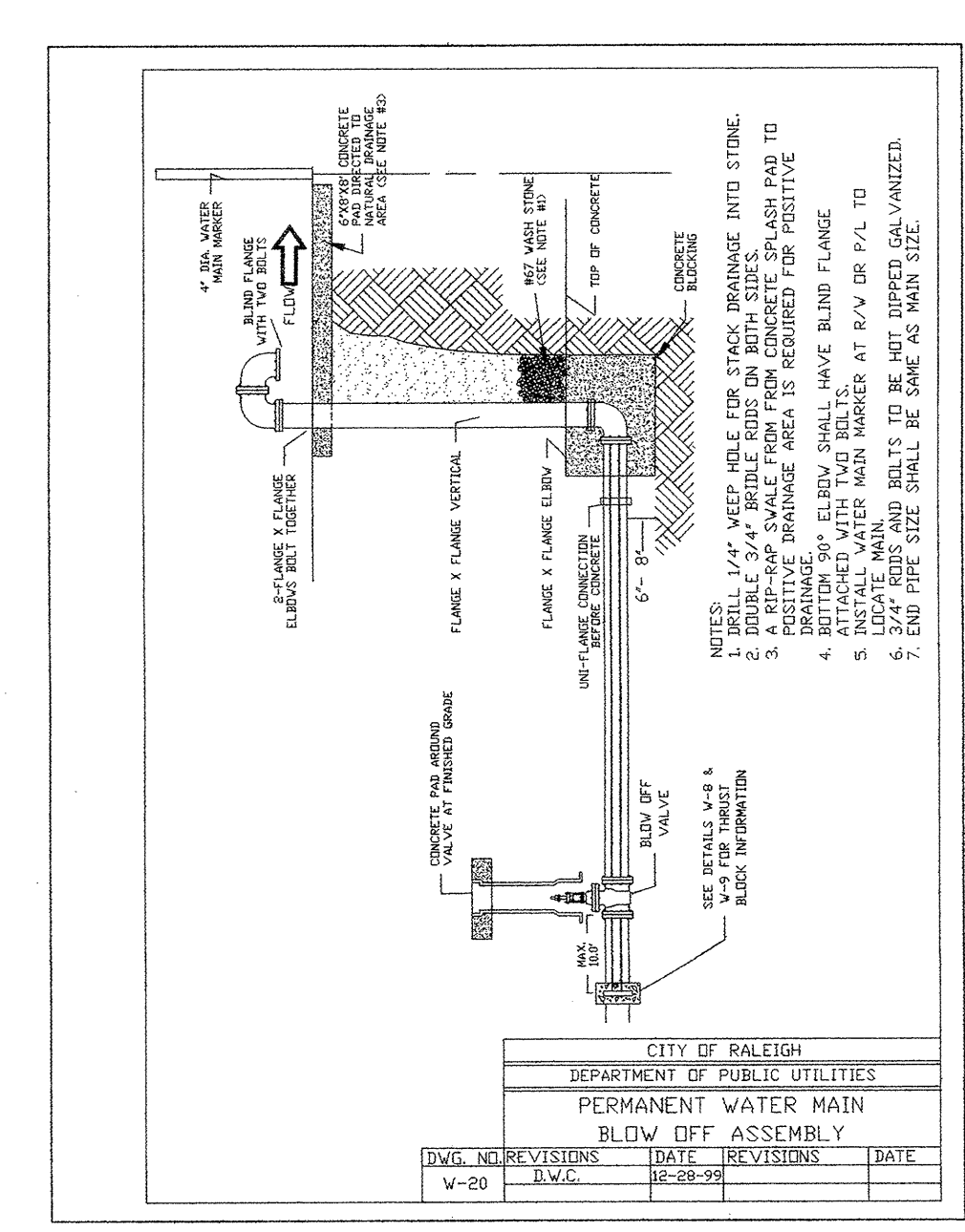
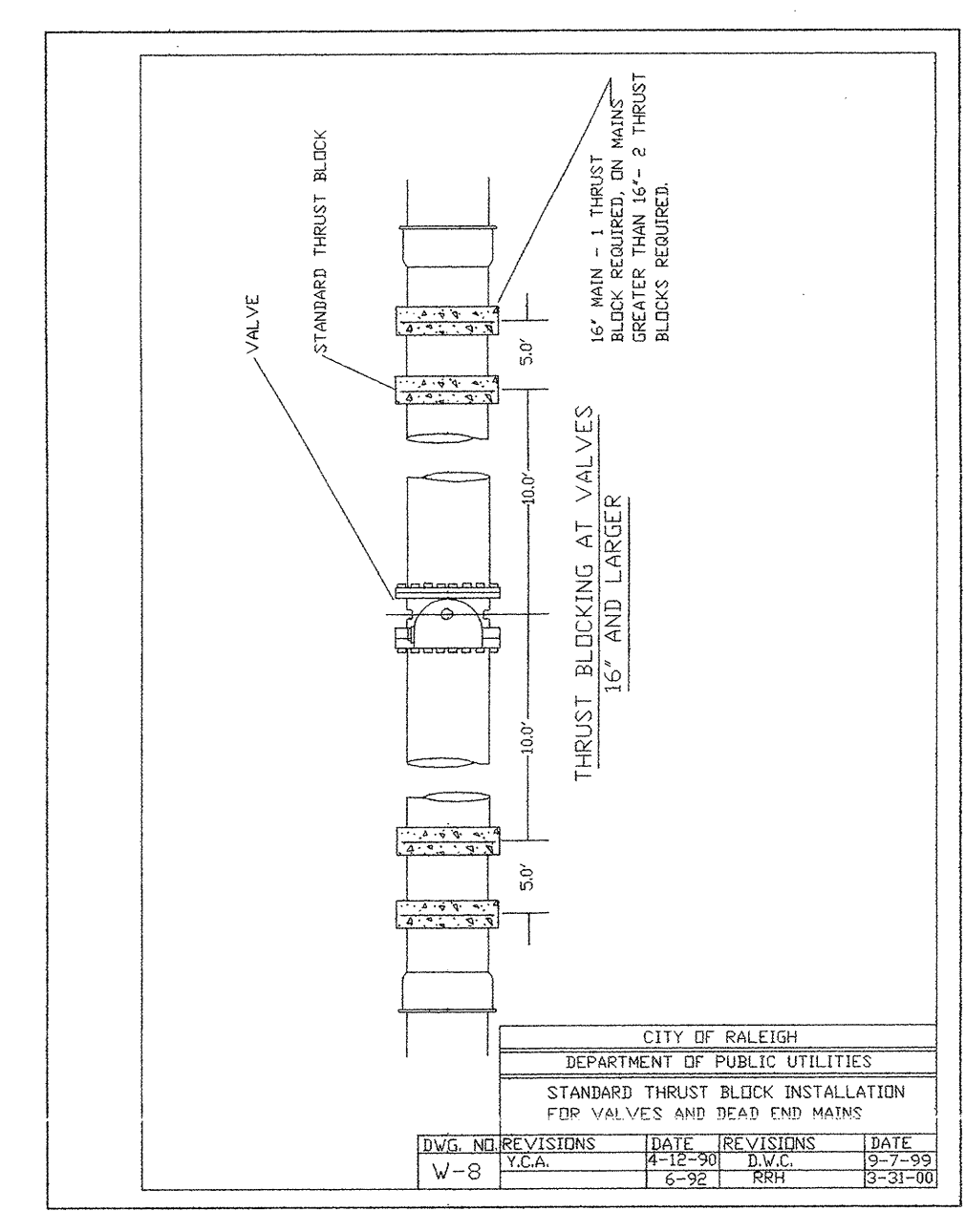
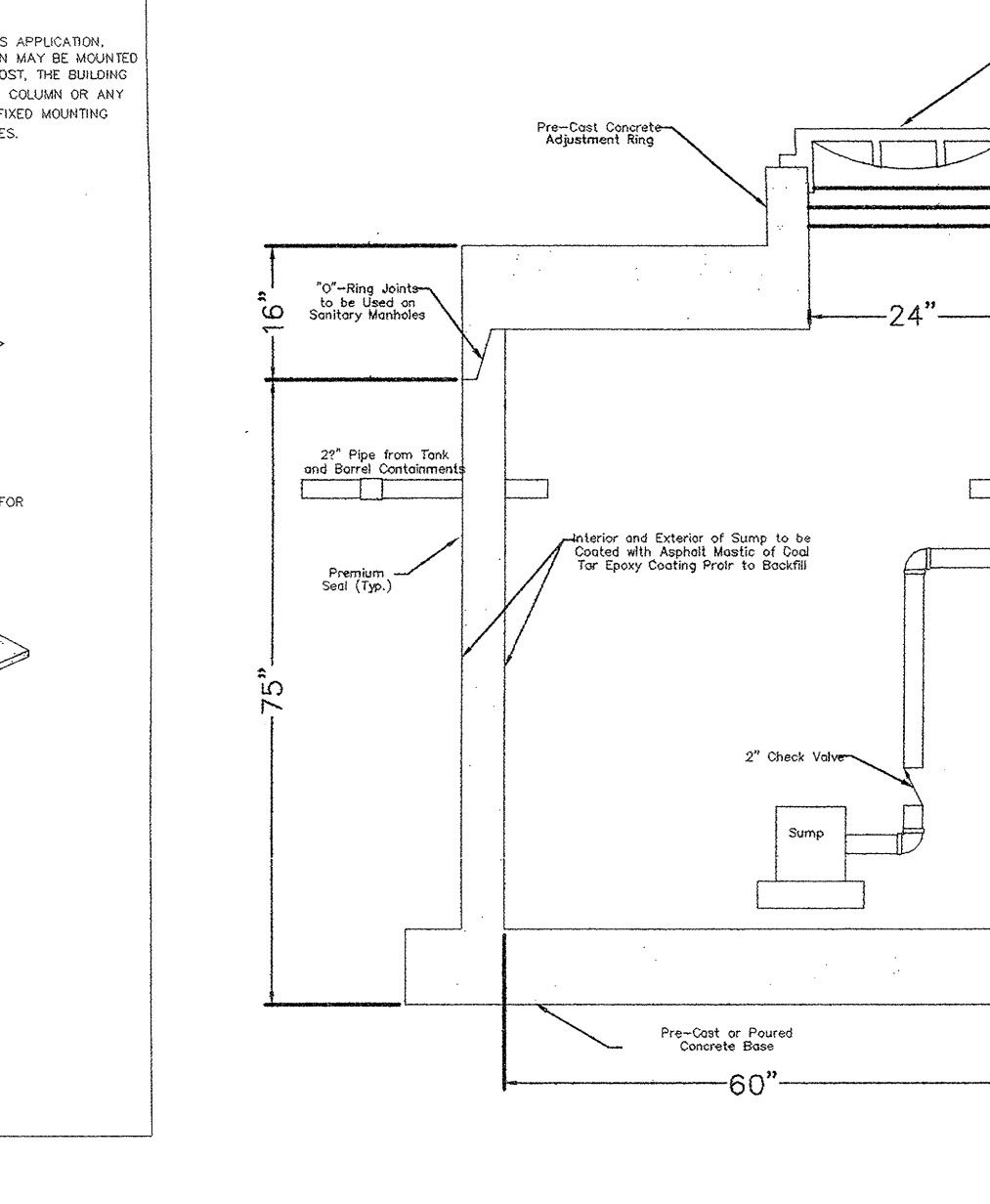
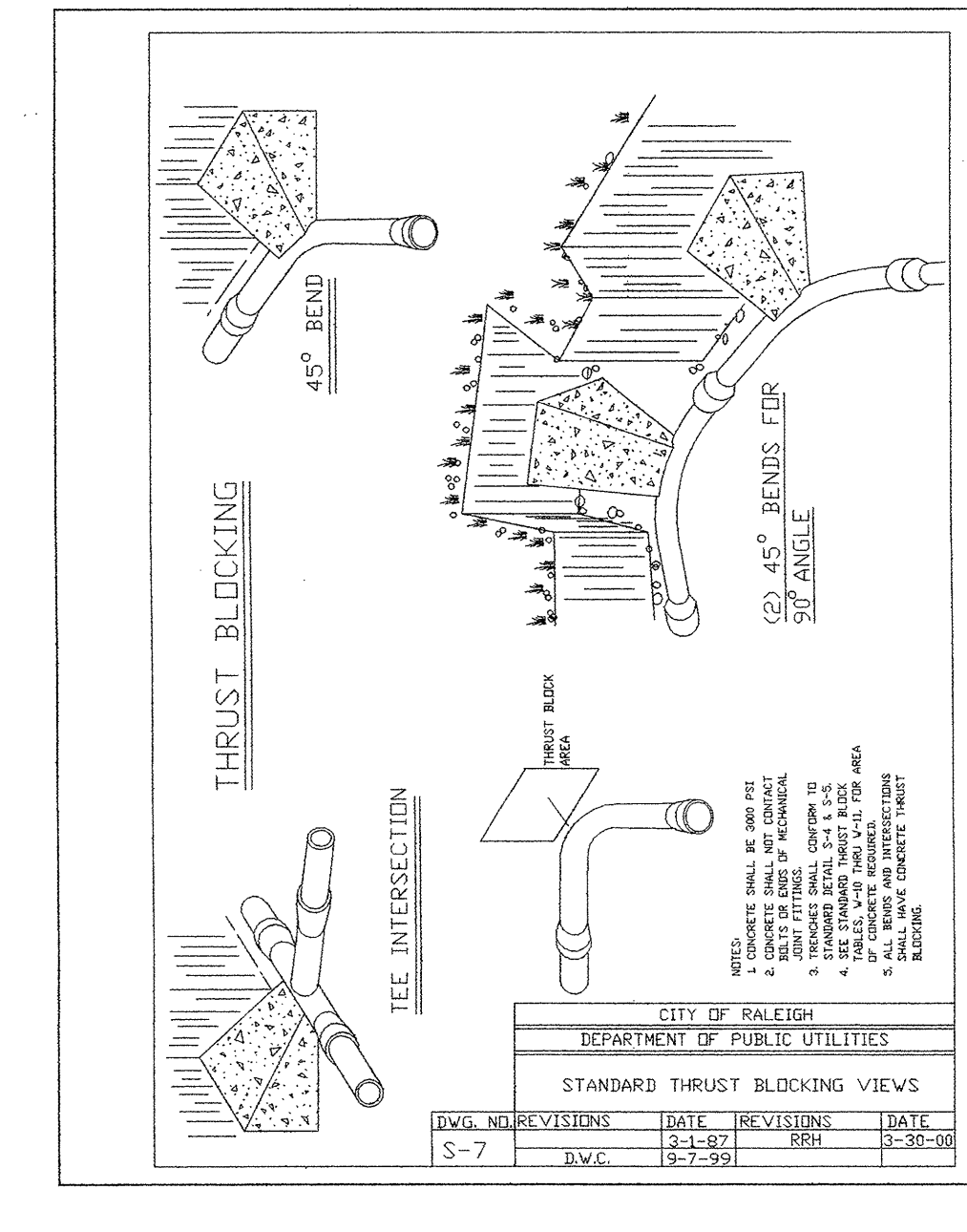
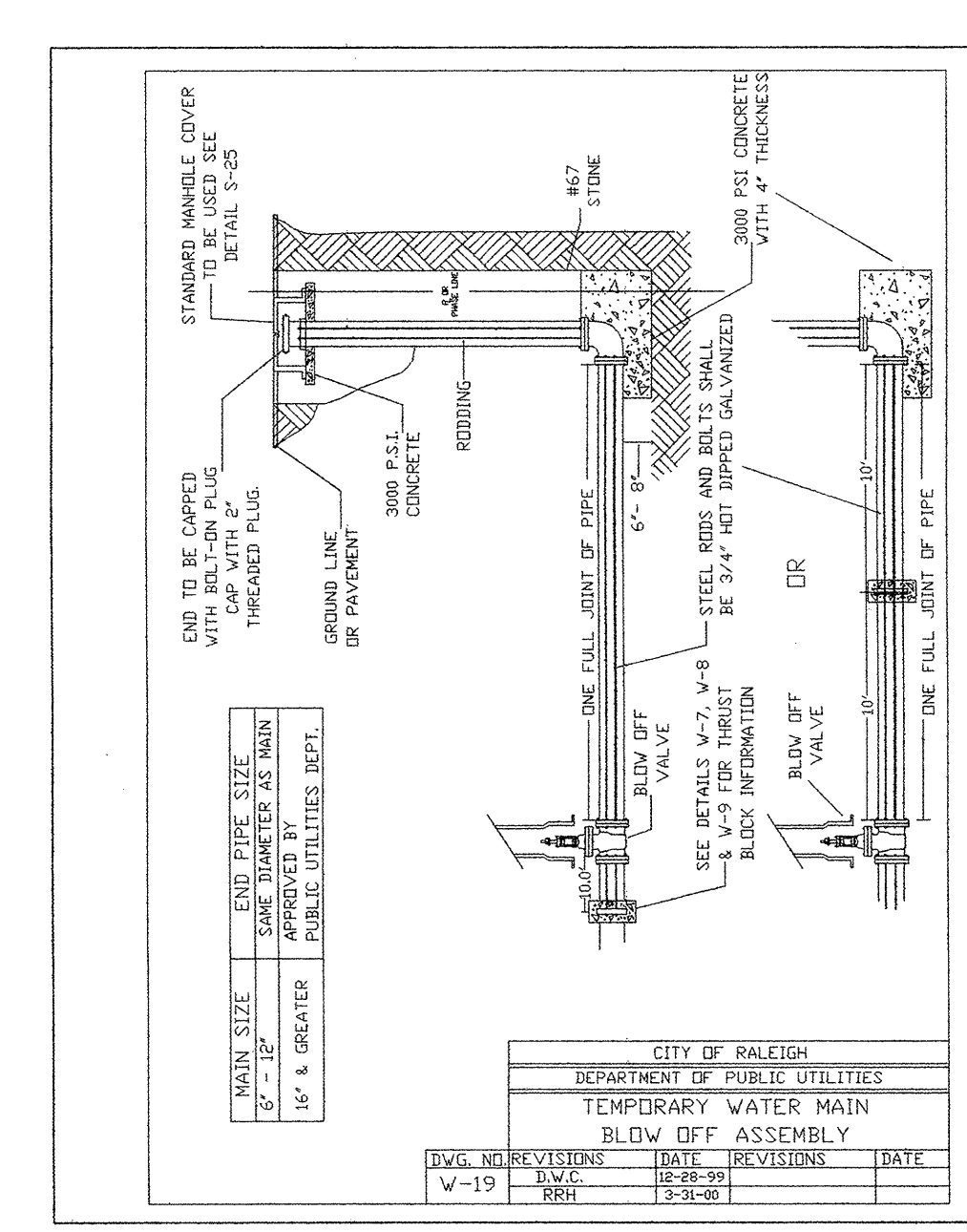
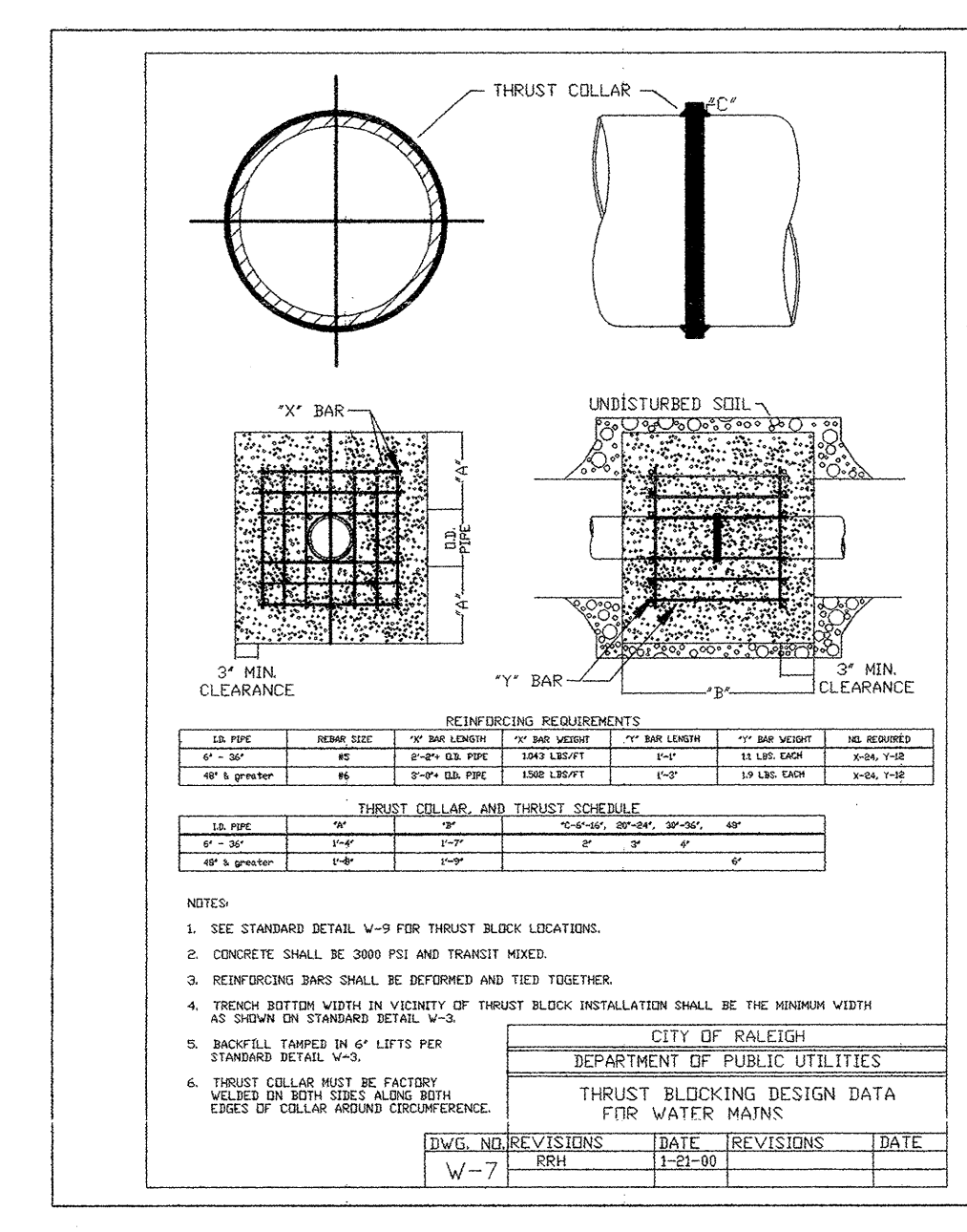
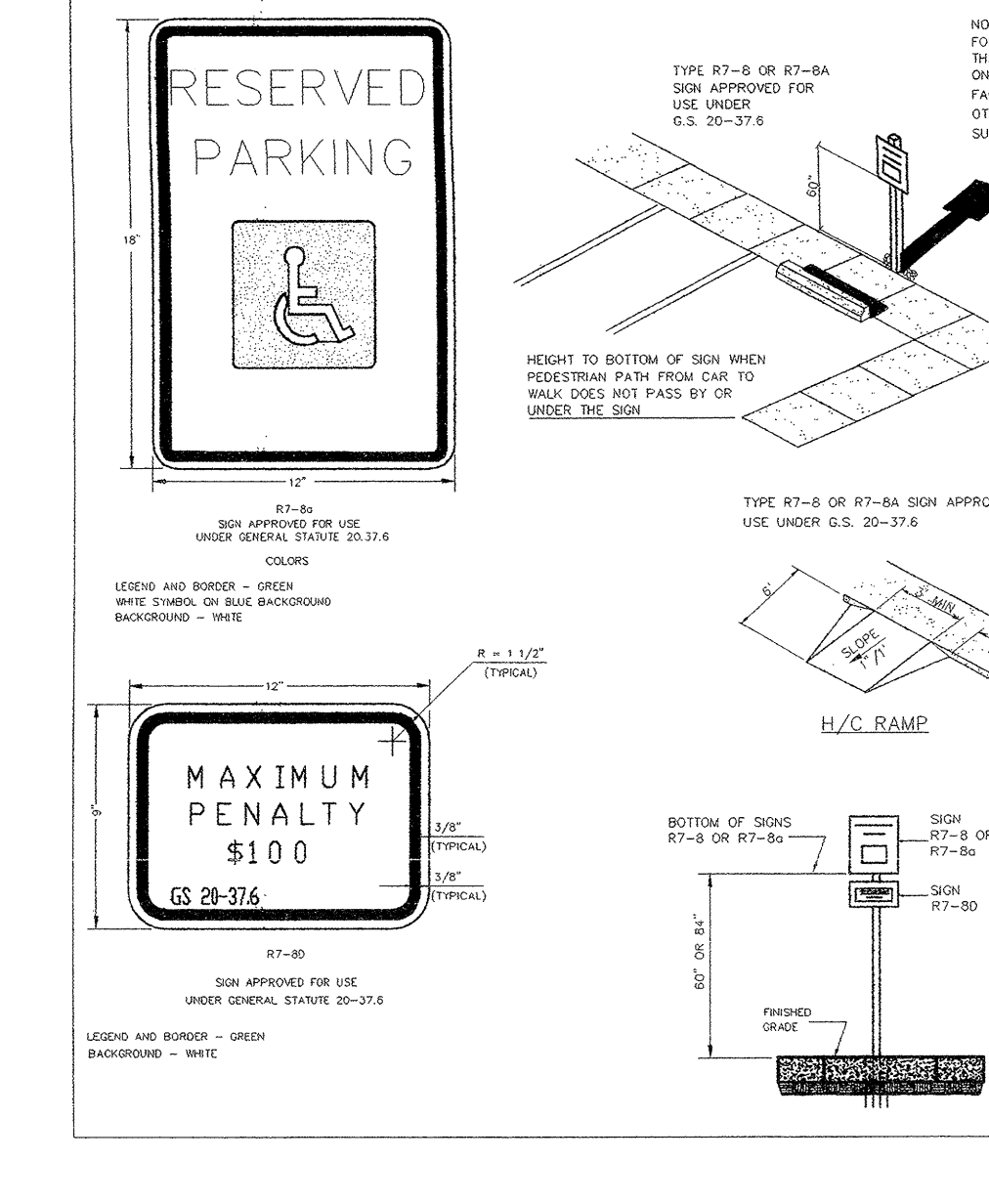
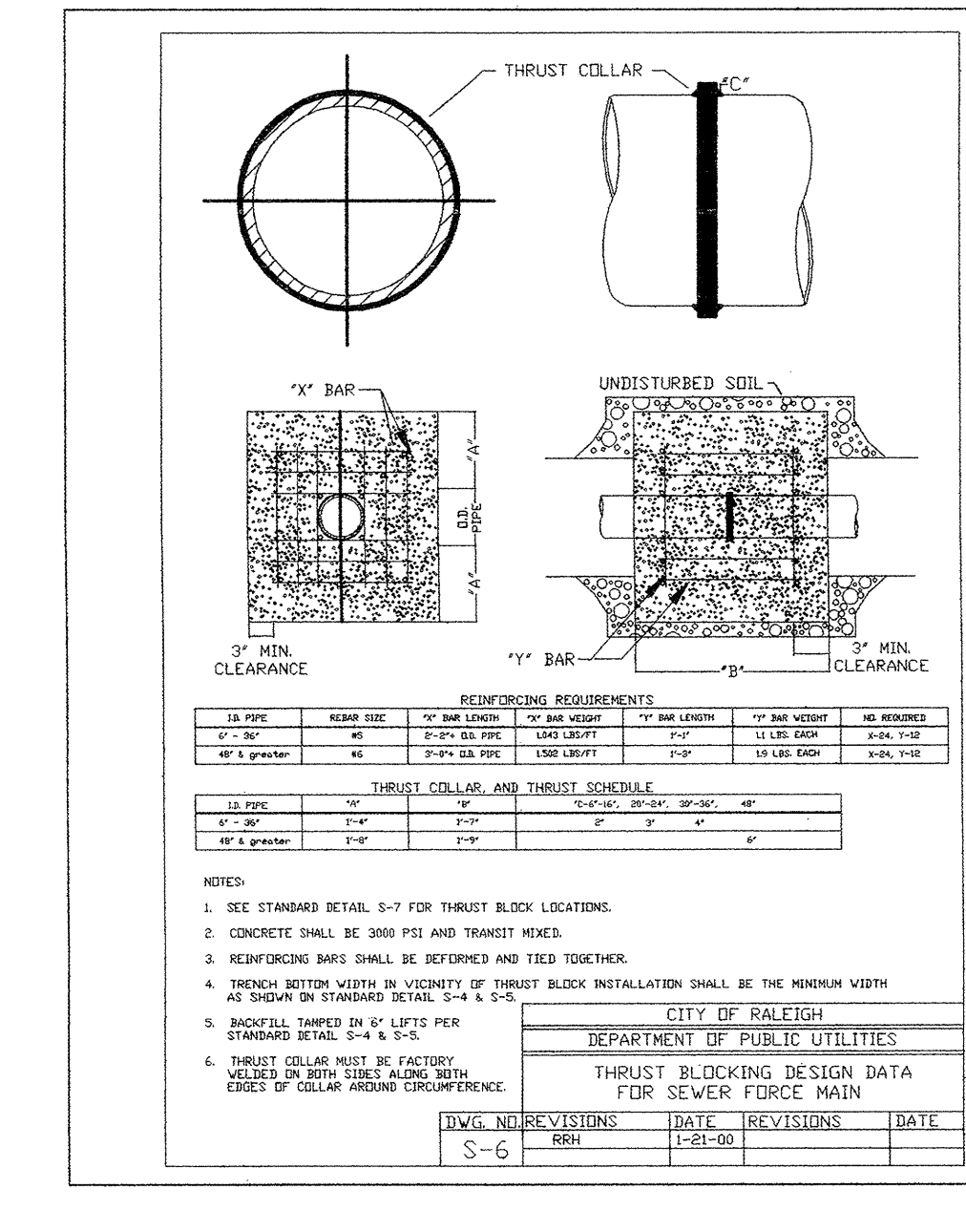
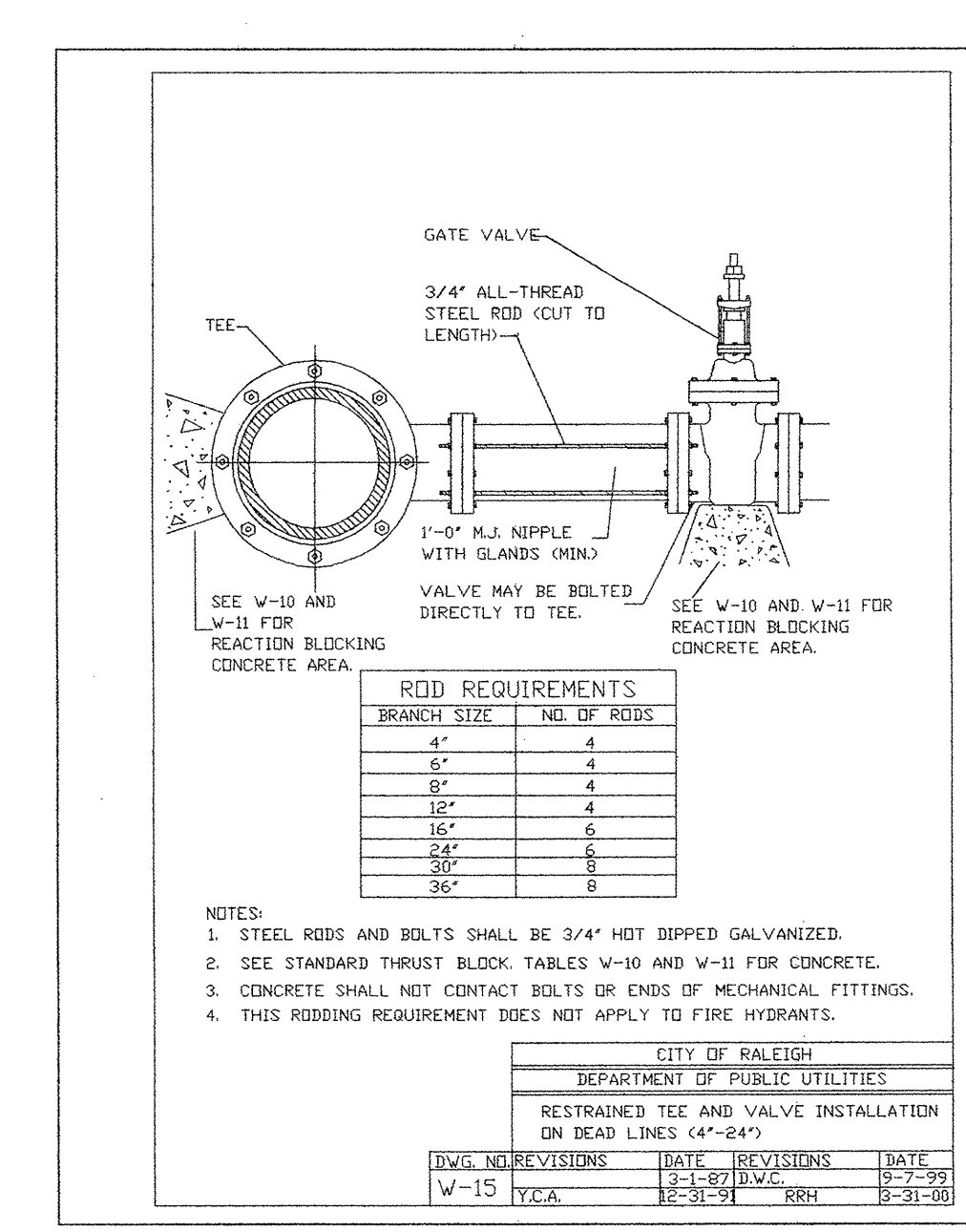
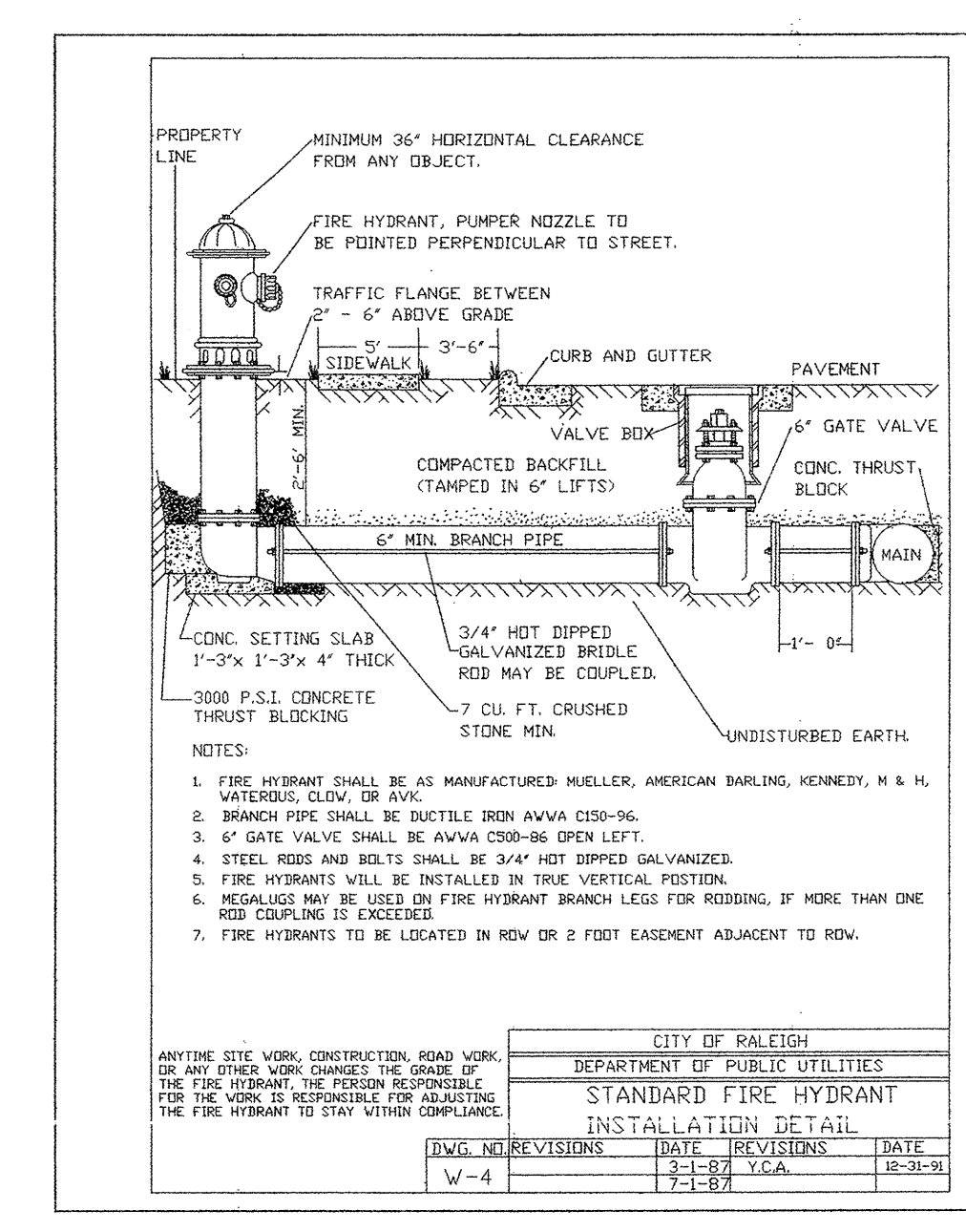
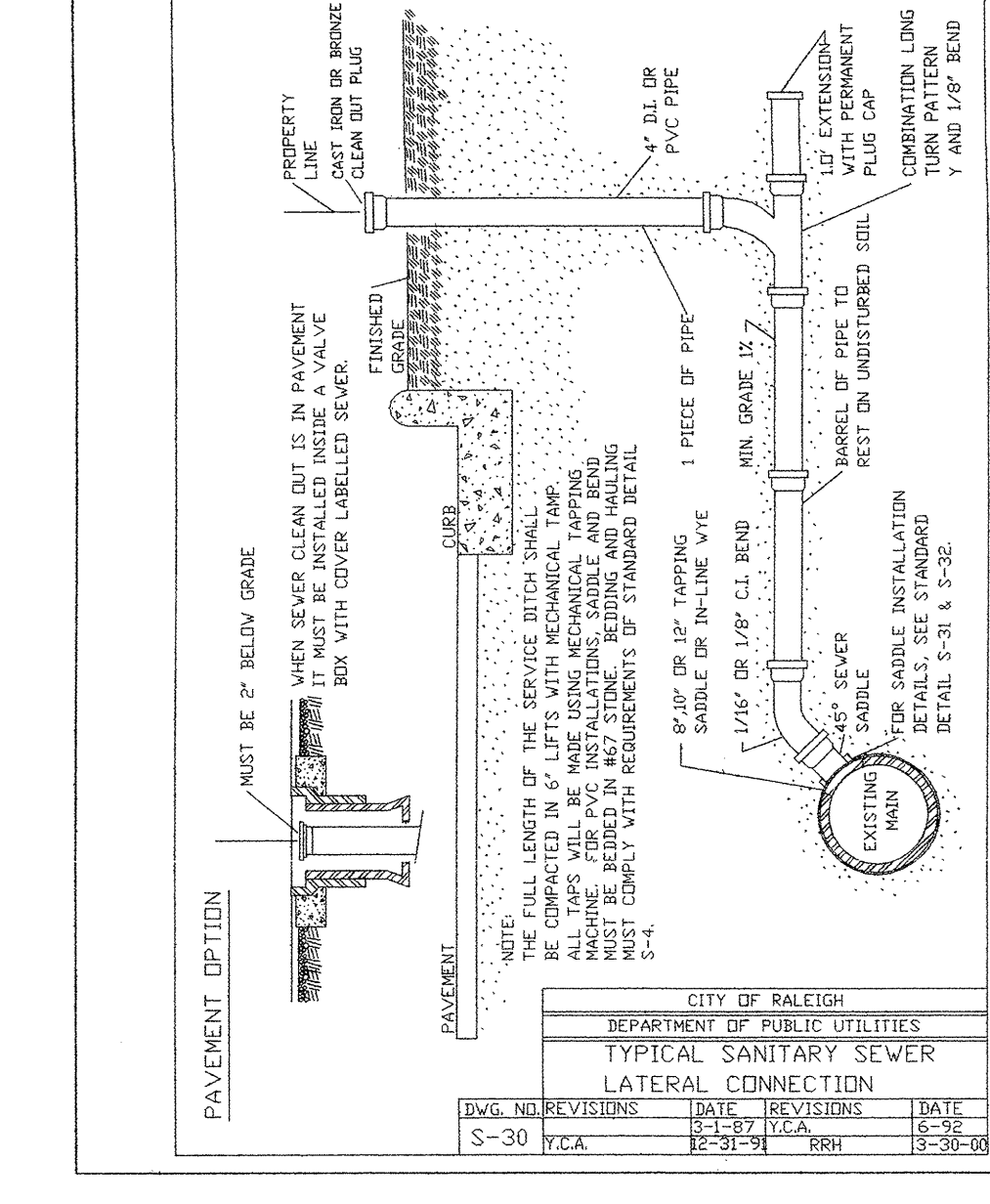
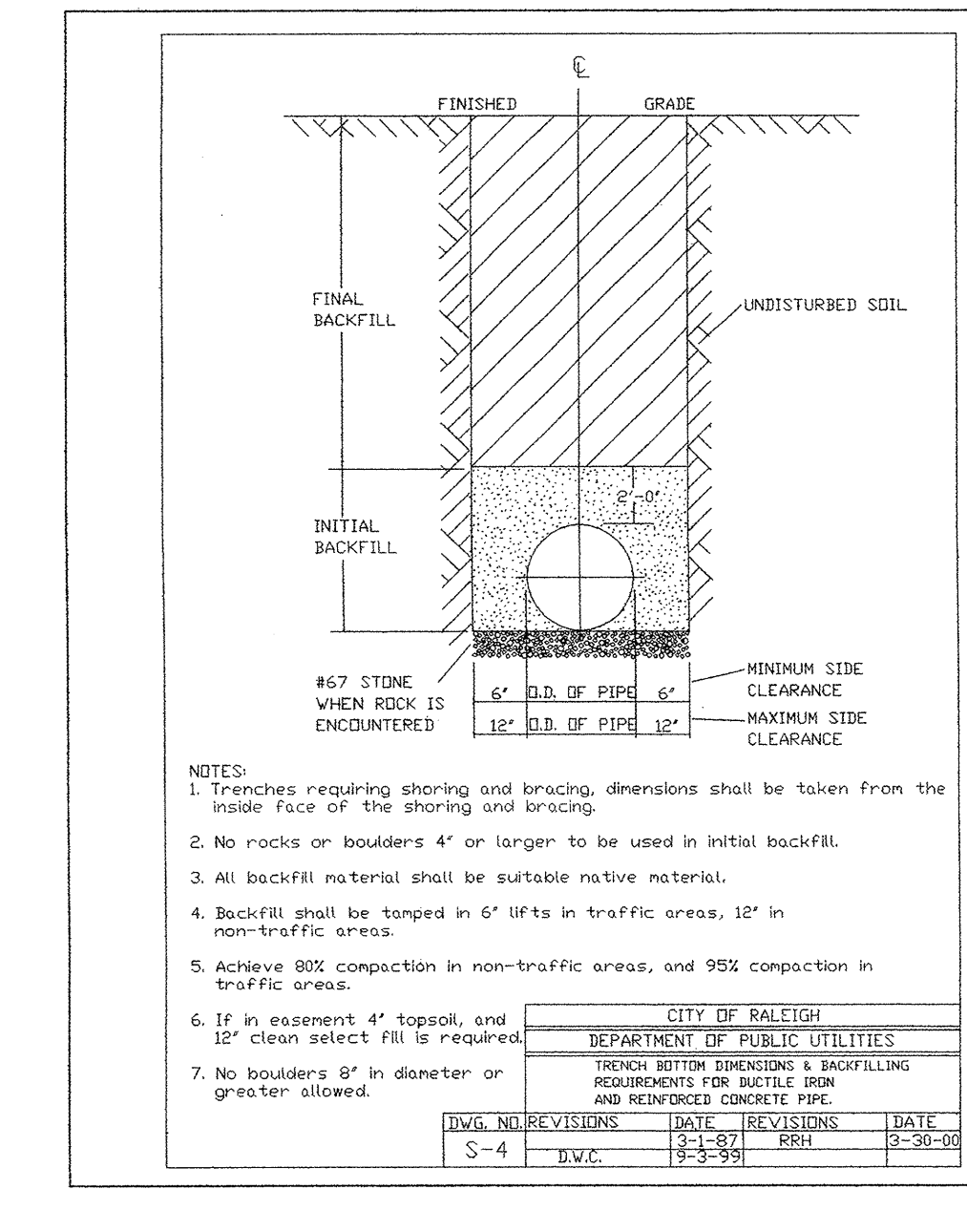
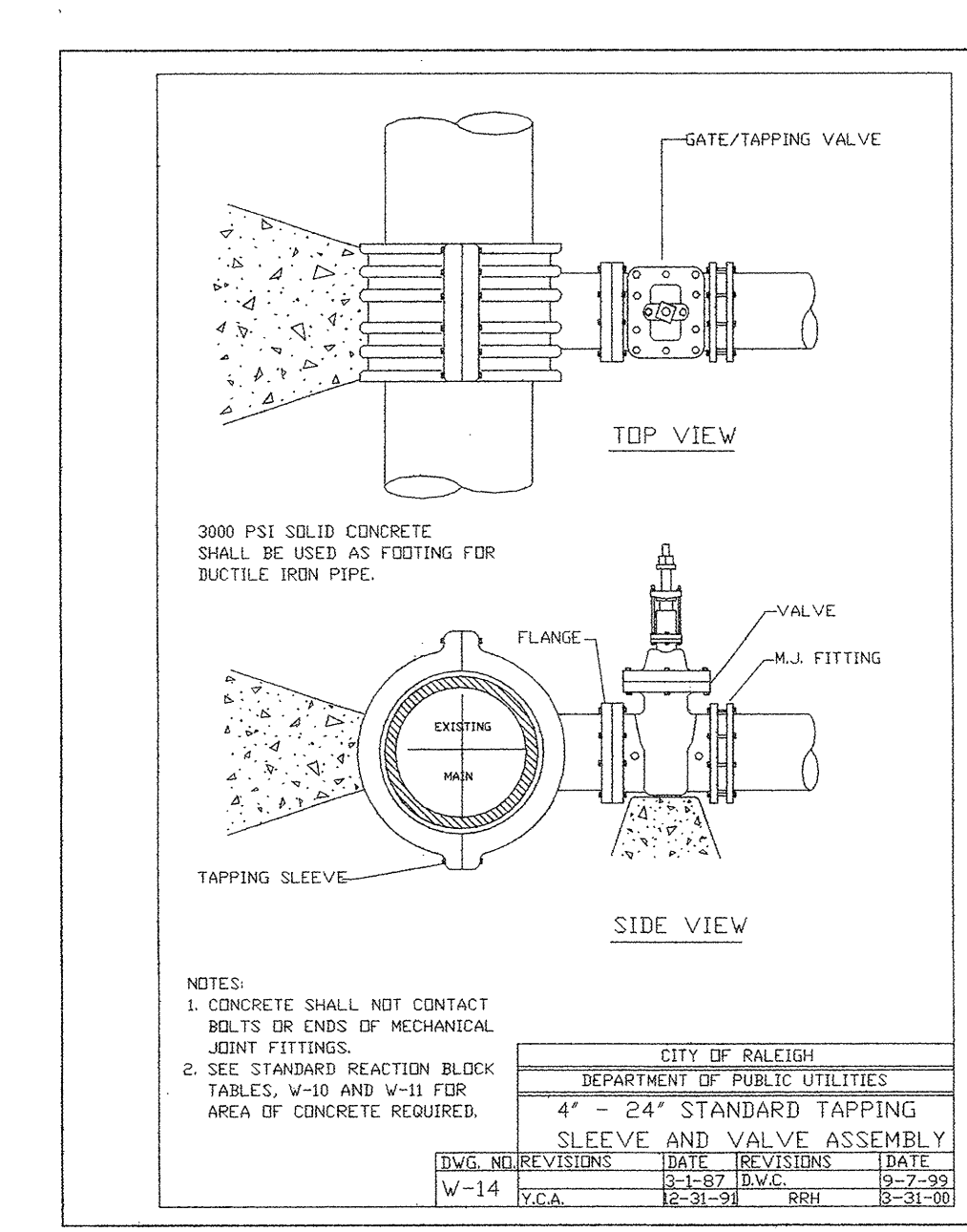
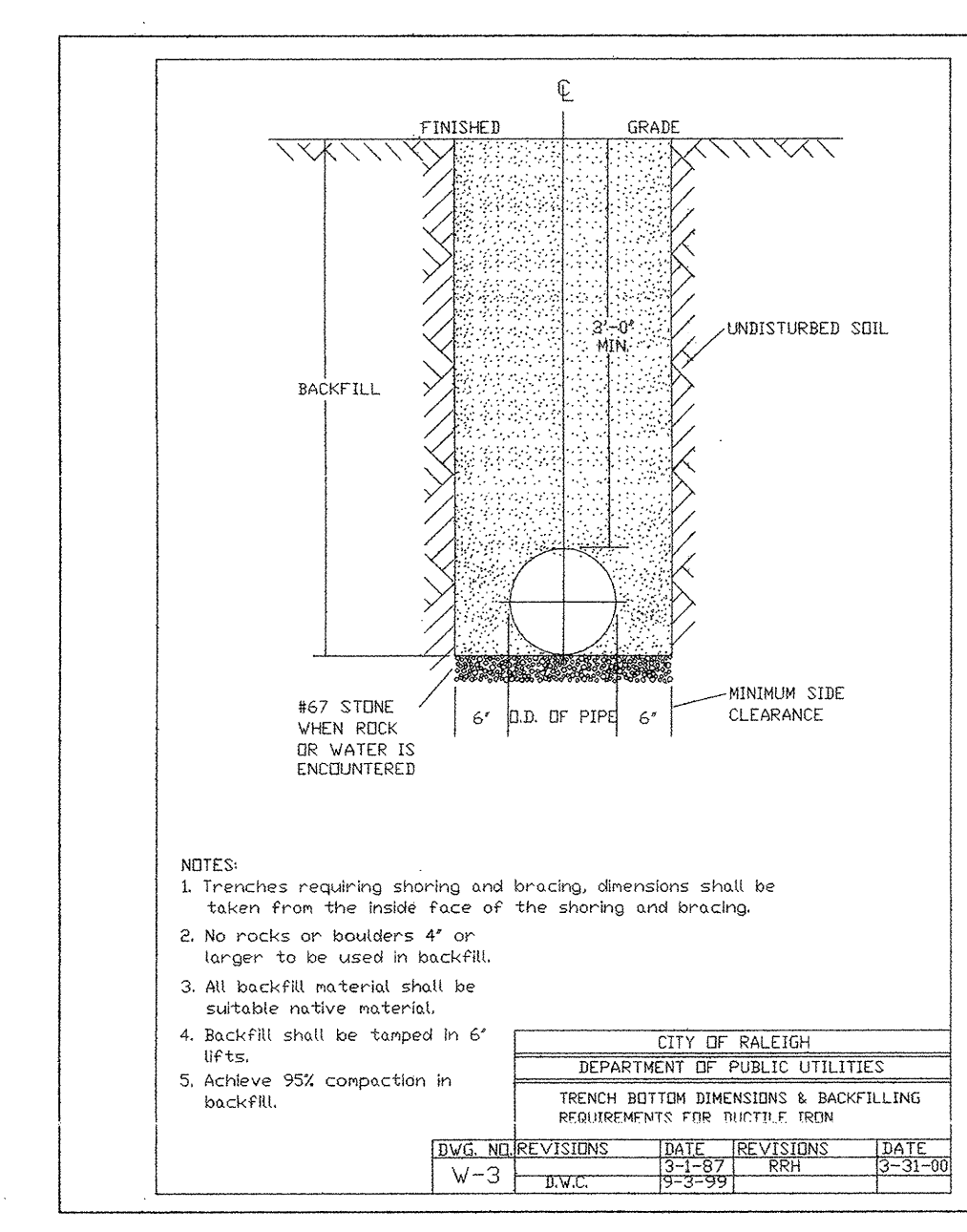
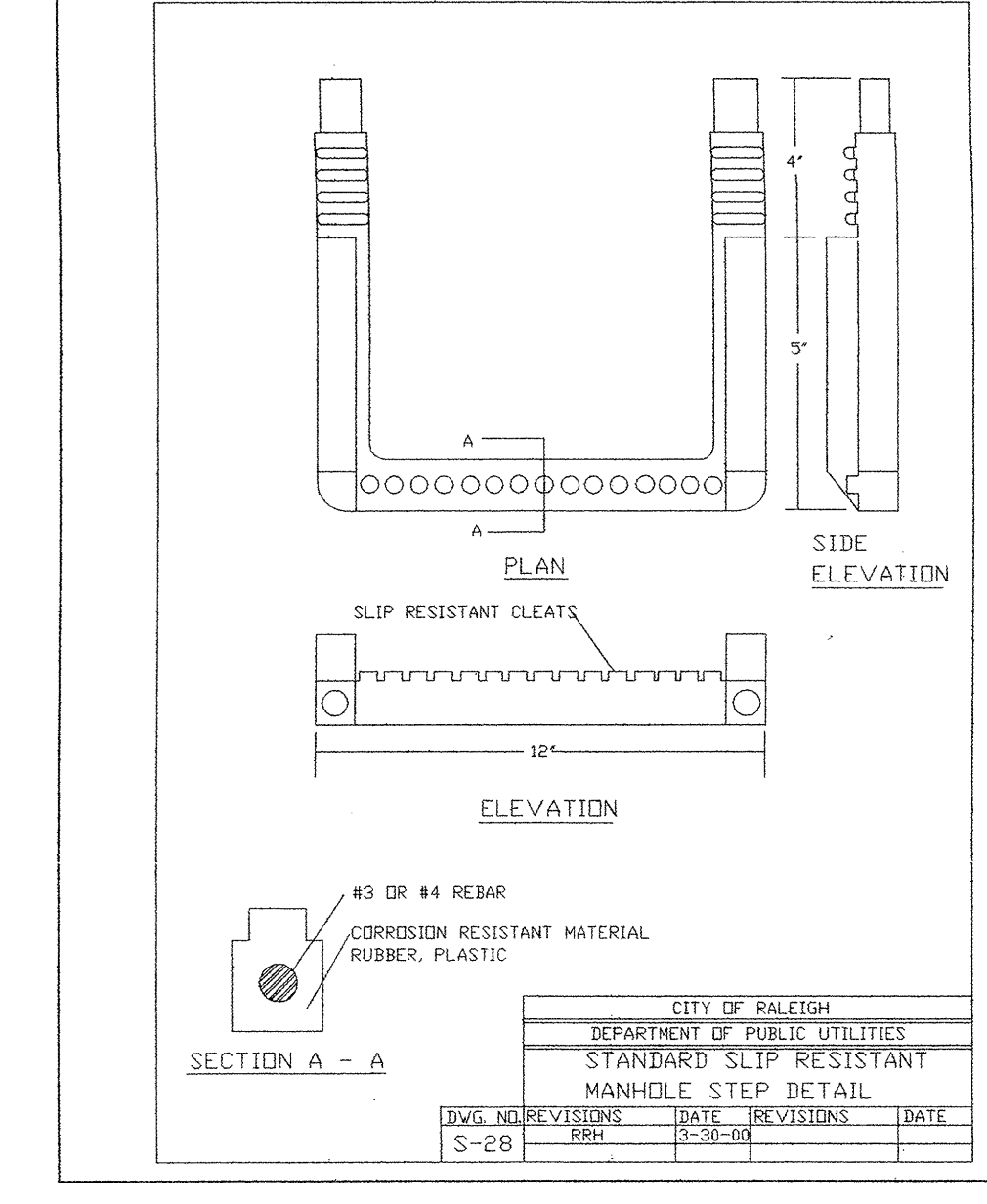
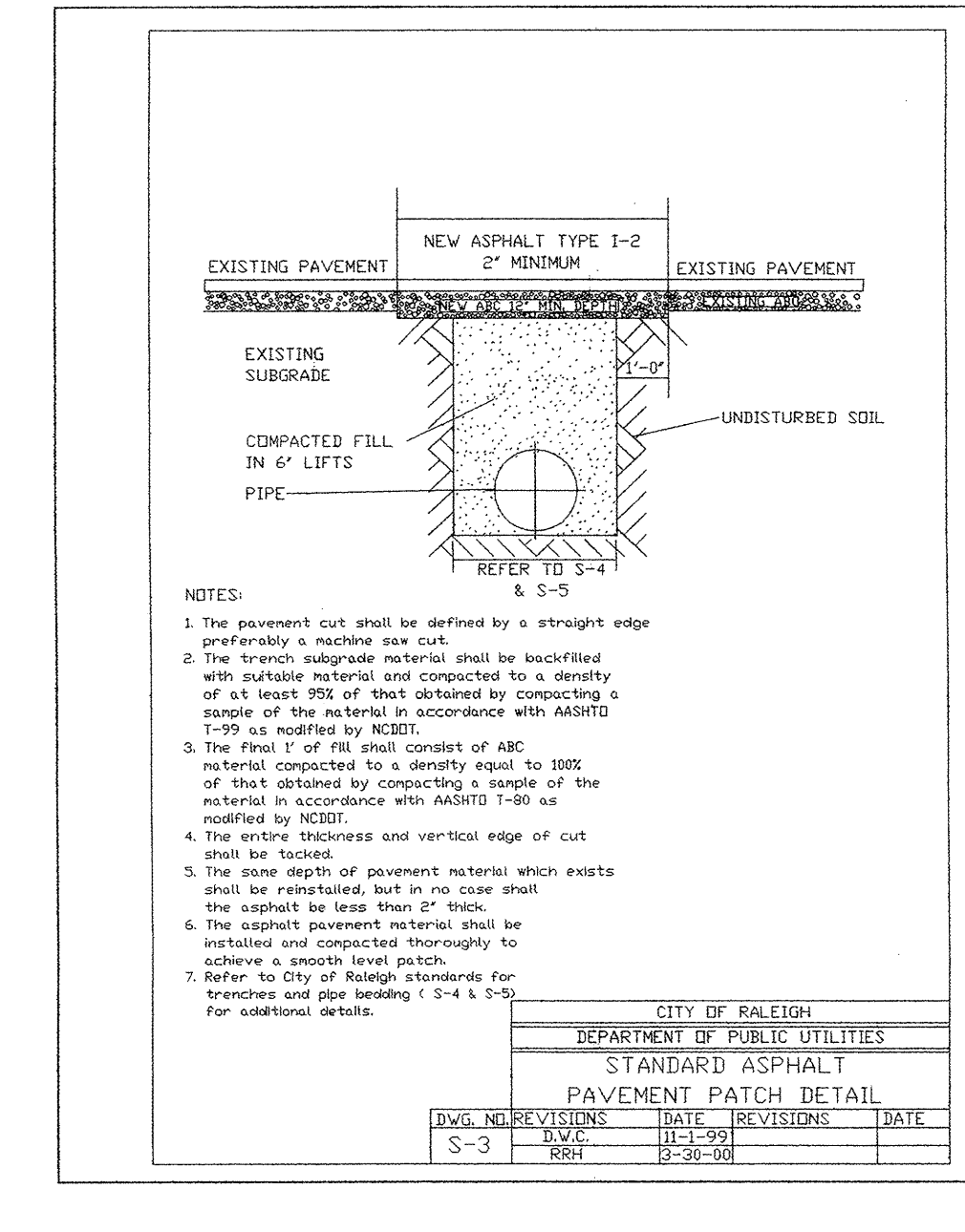
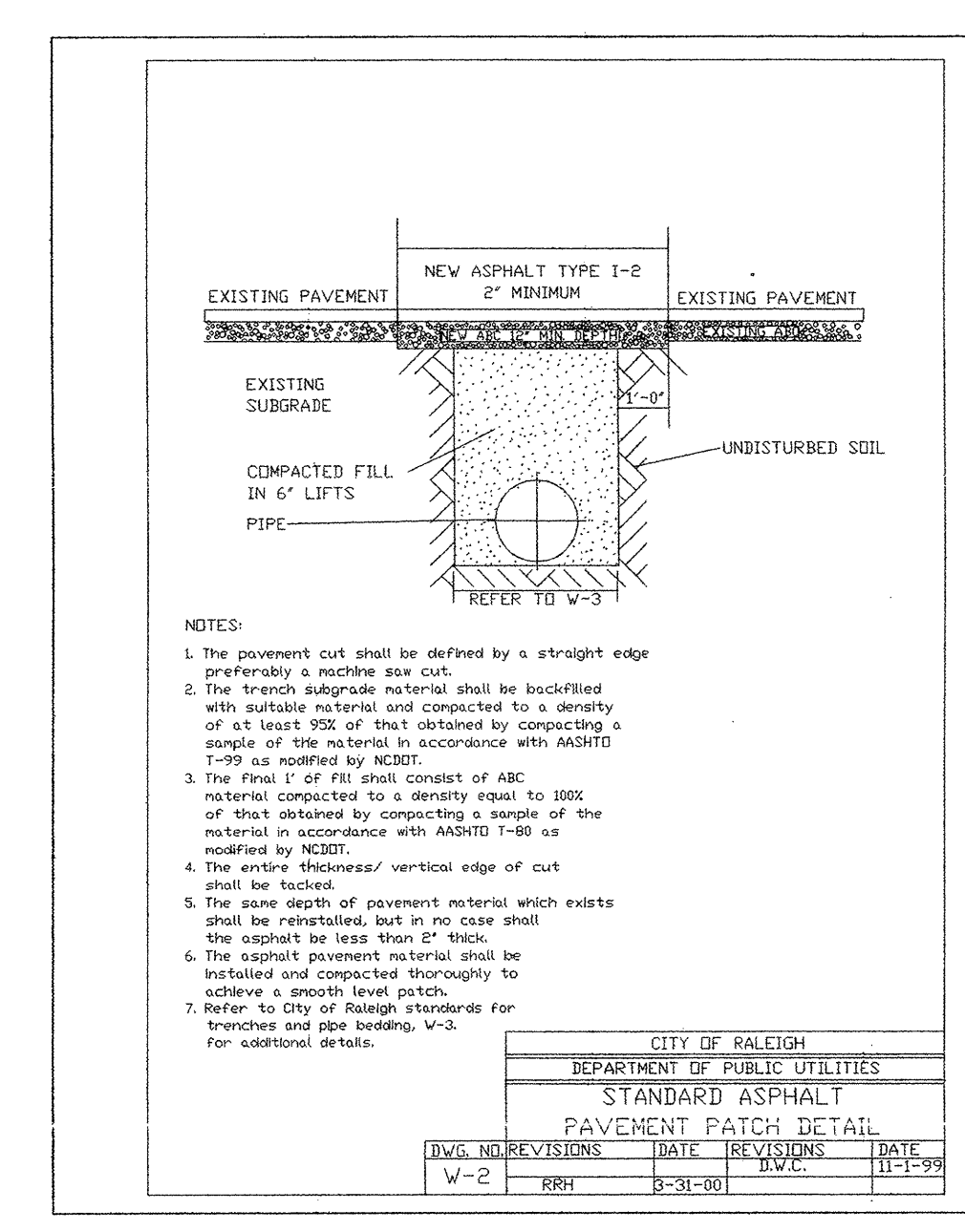
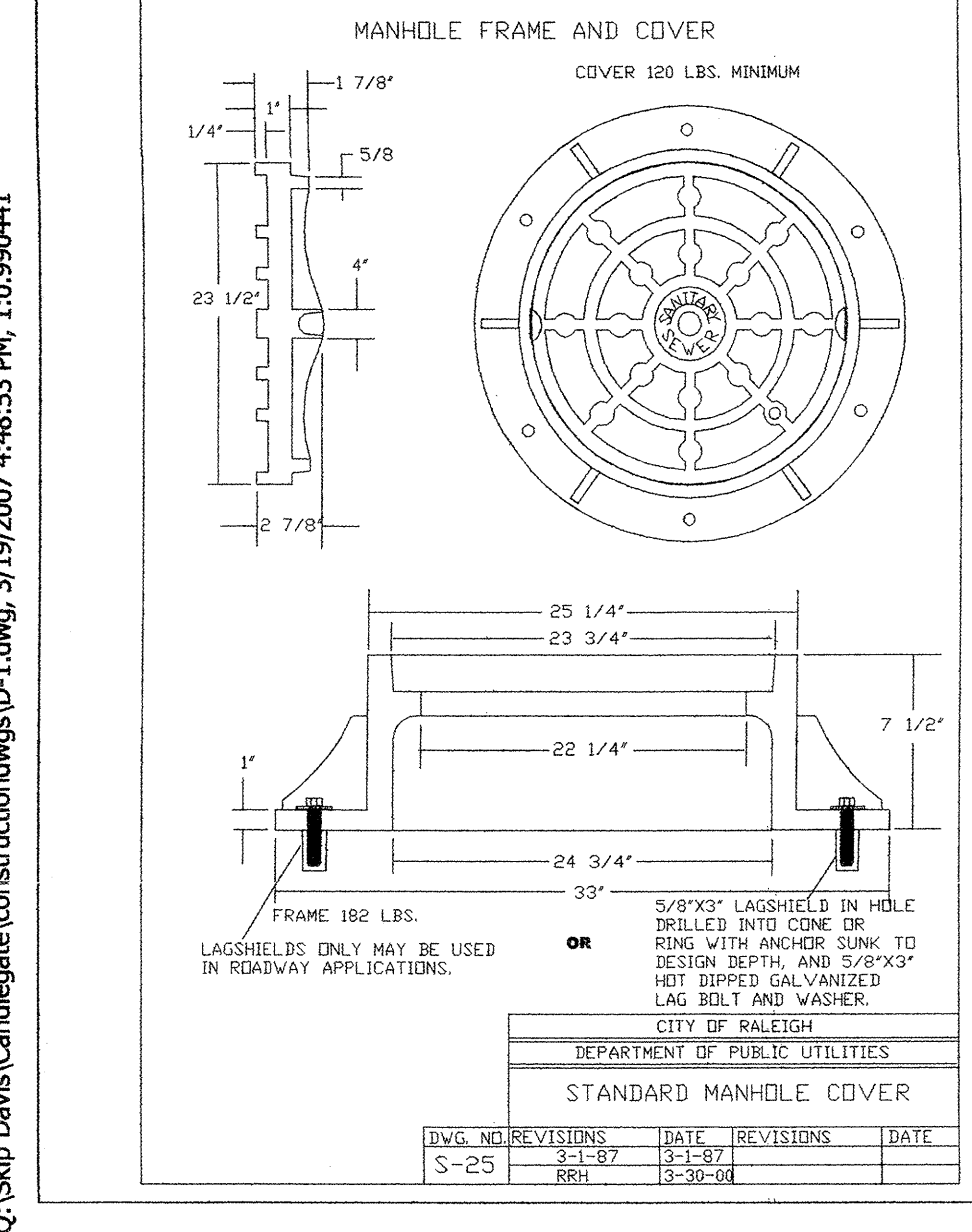
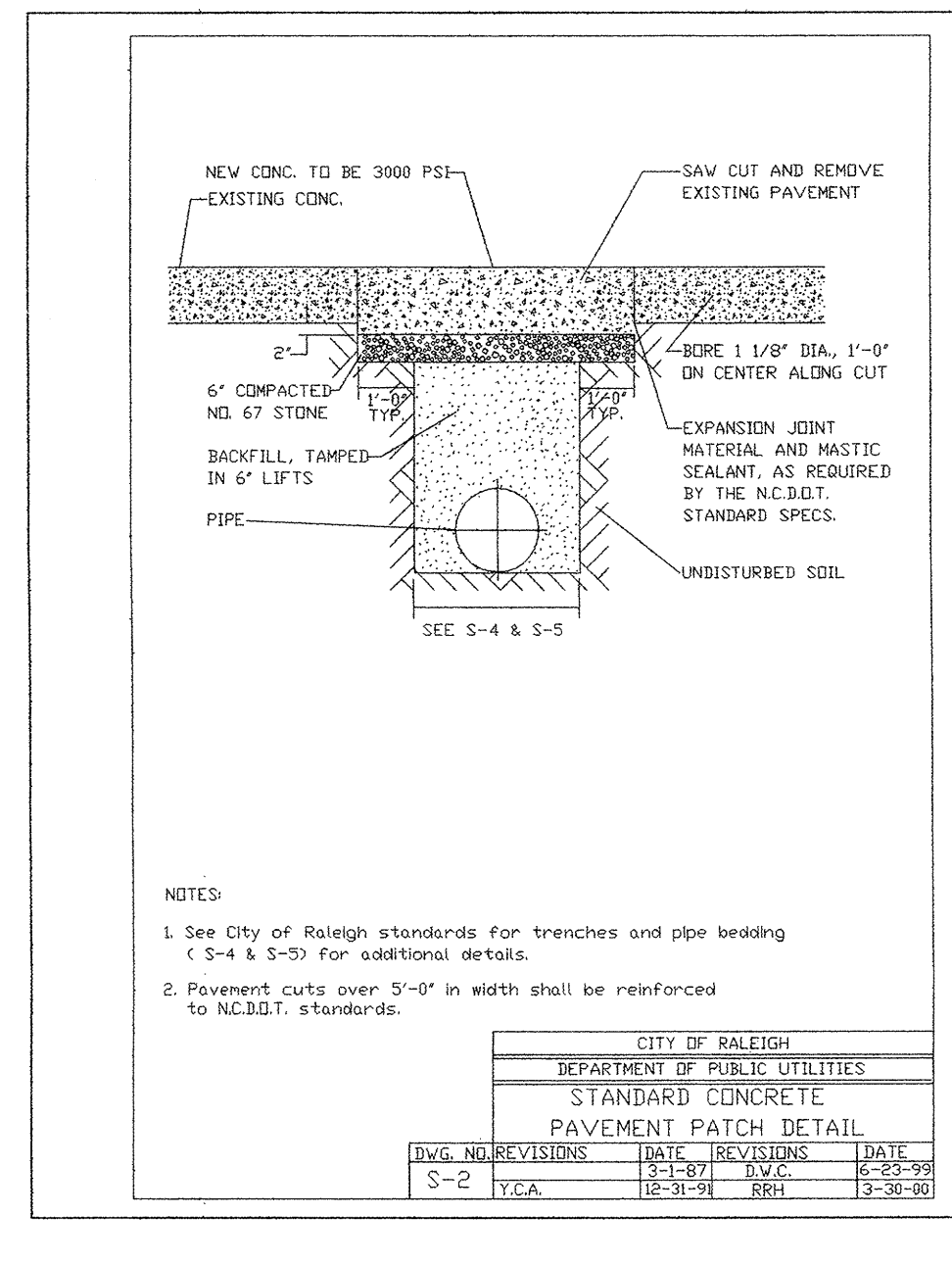
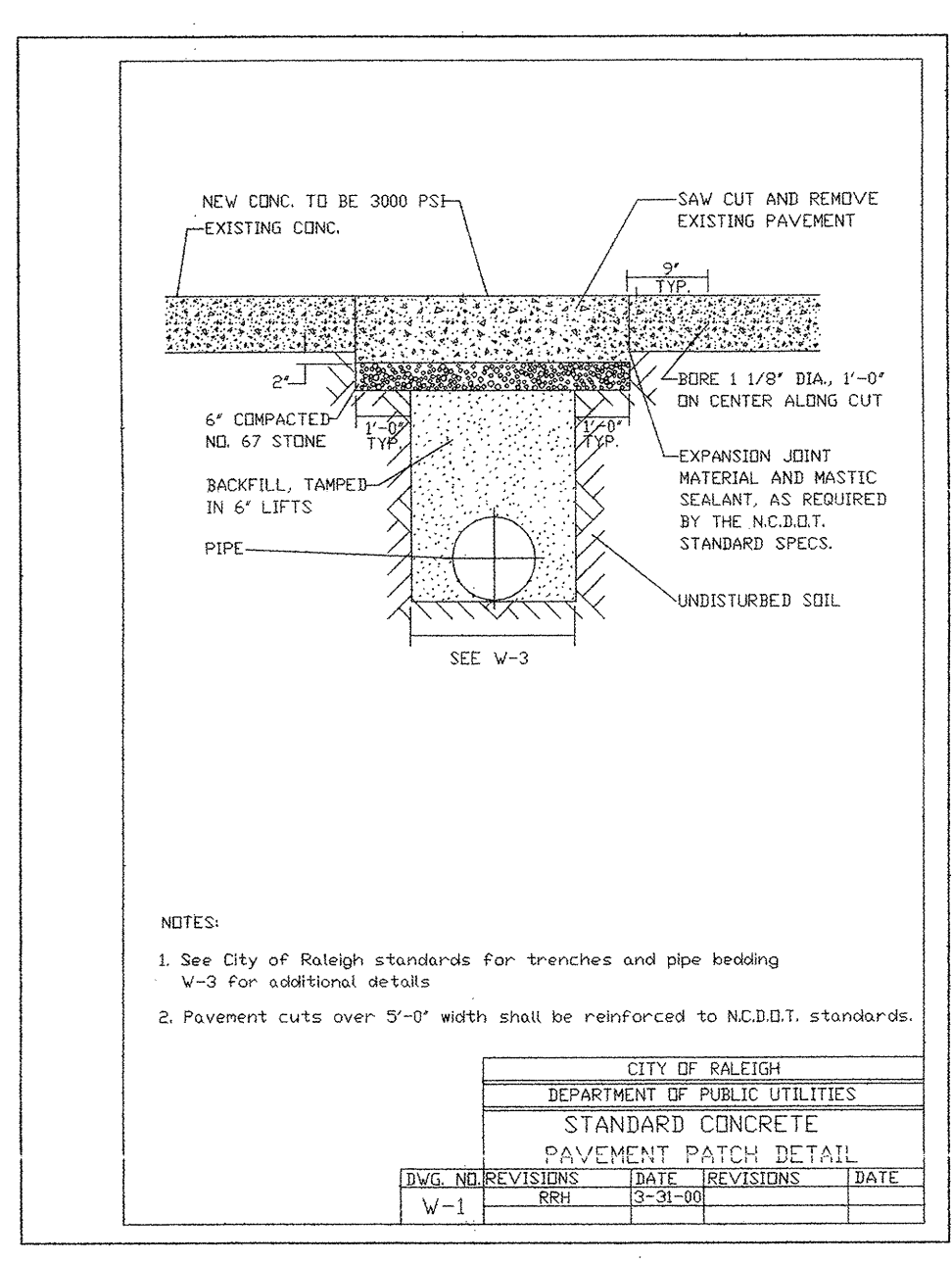








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CARLTON POINTE SUBDIVISION  
 CITY OF RALEIGH --- UTILITY DETAILS  
 ROLESVILLE, NORTH CAROLINA

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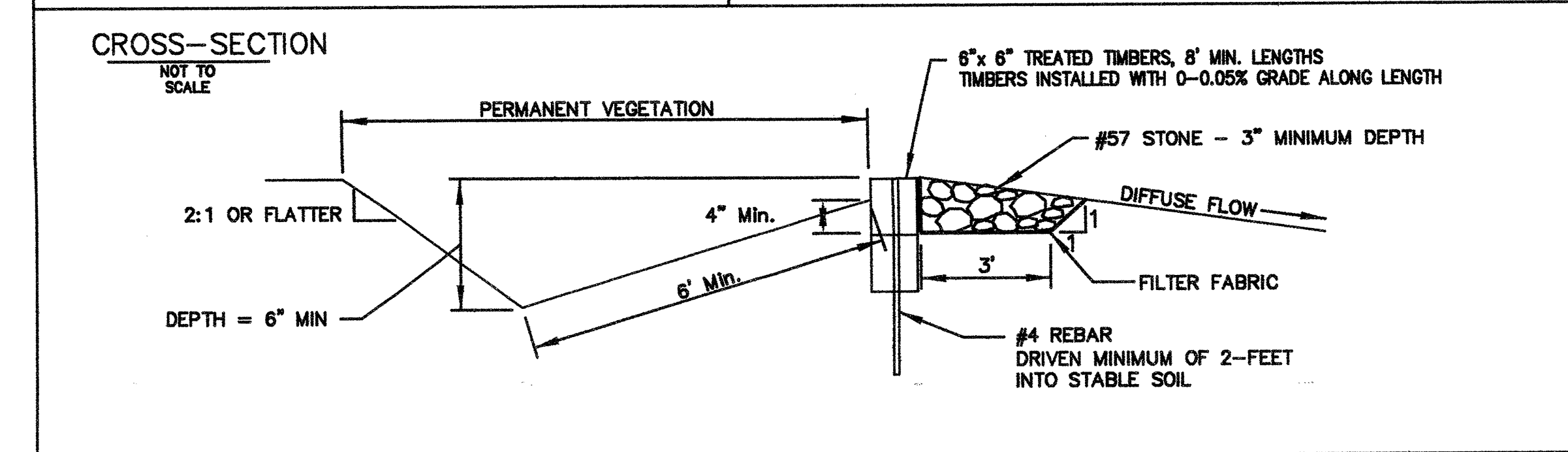
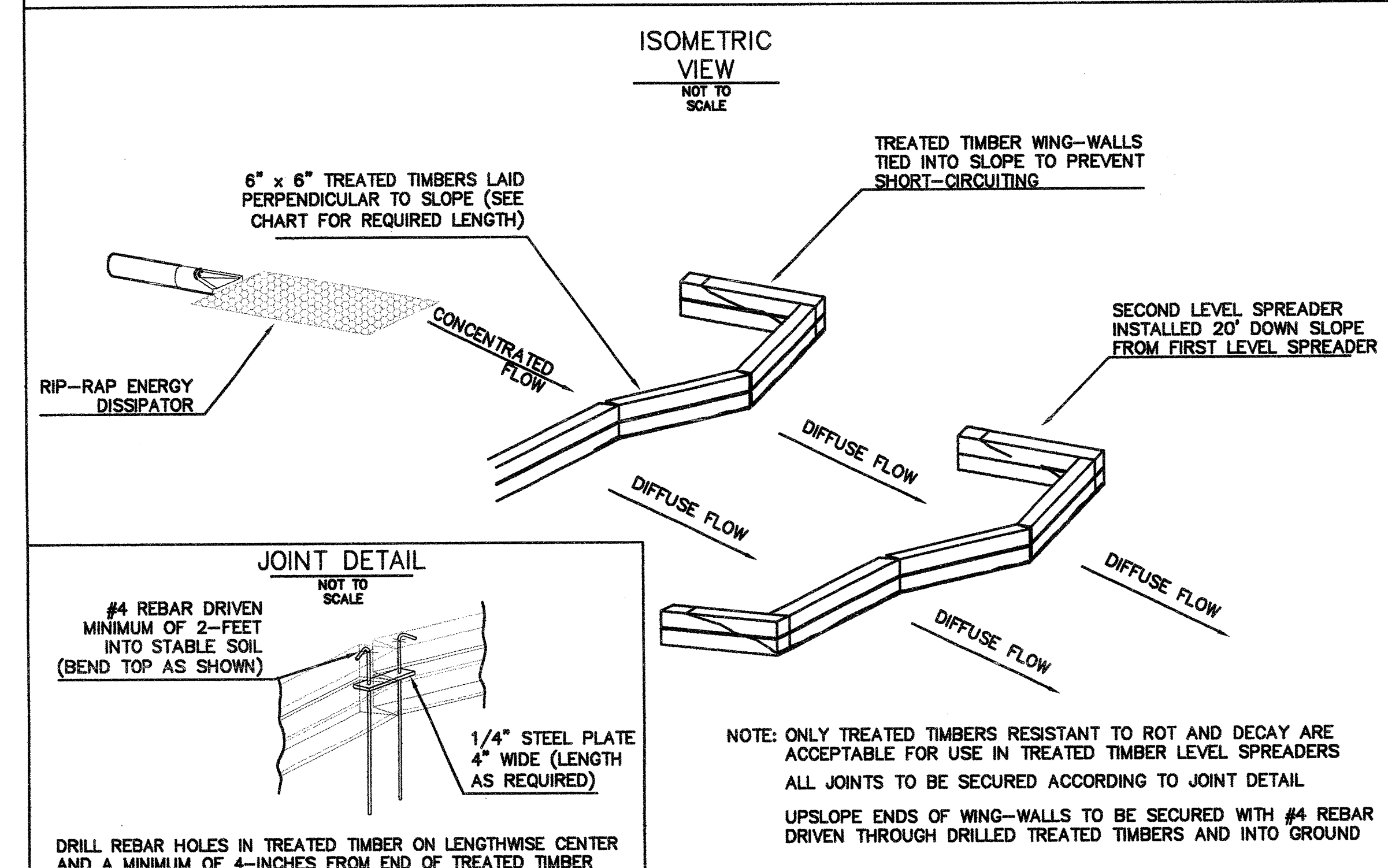
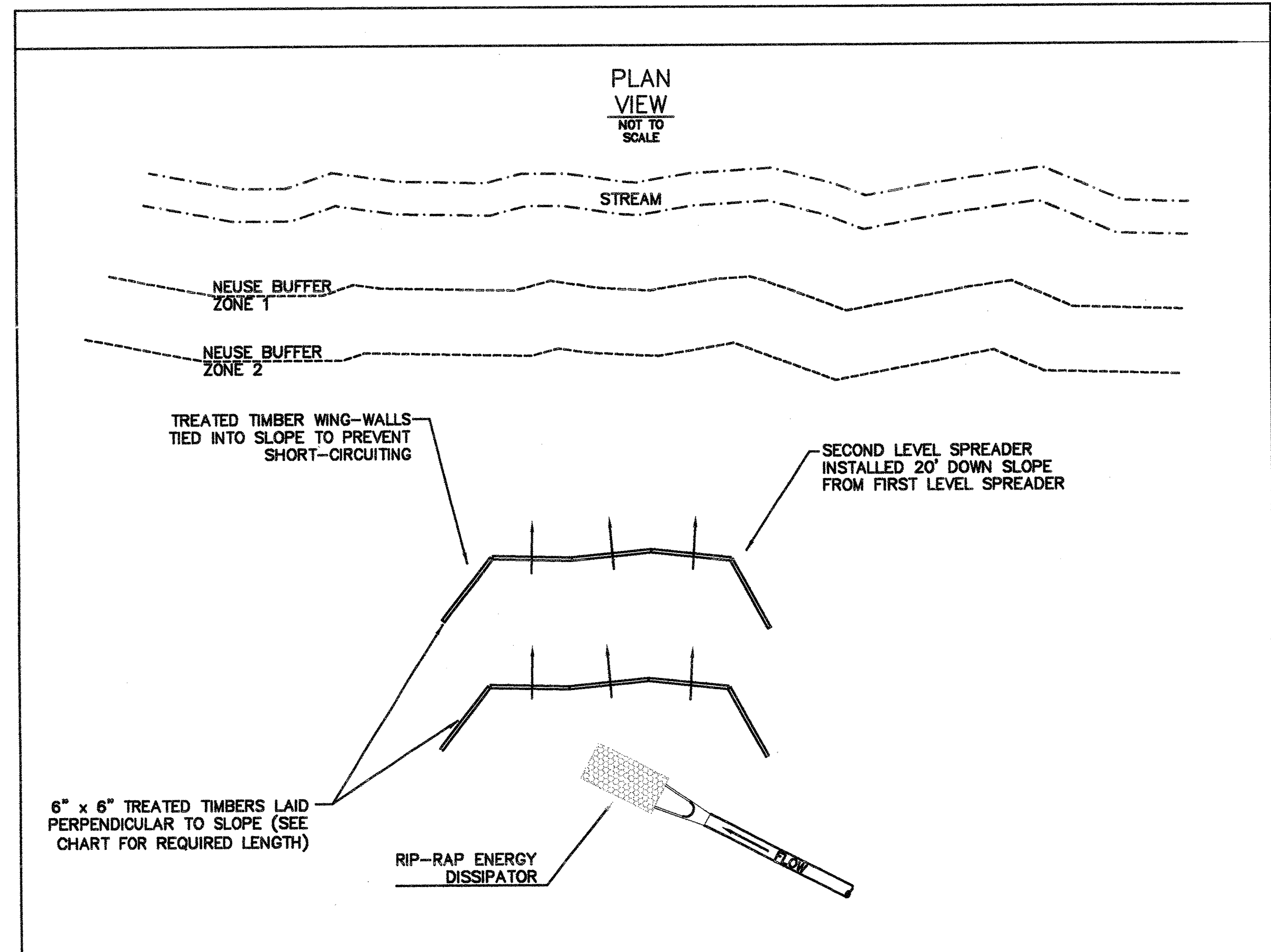
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# TREATED TIMBER LEVEL SPREADER DETAIL



## Construction Specifications

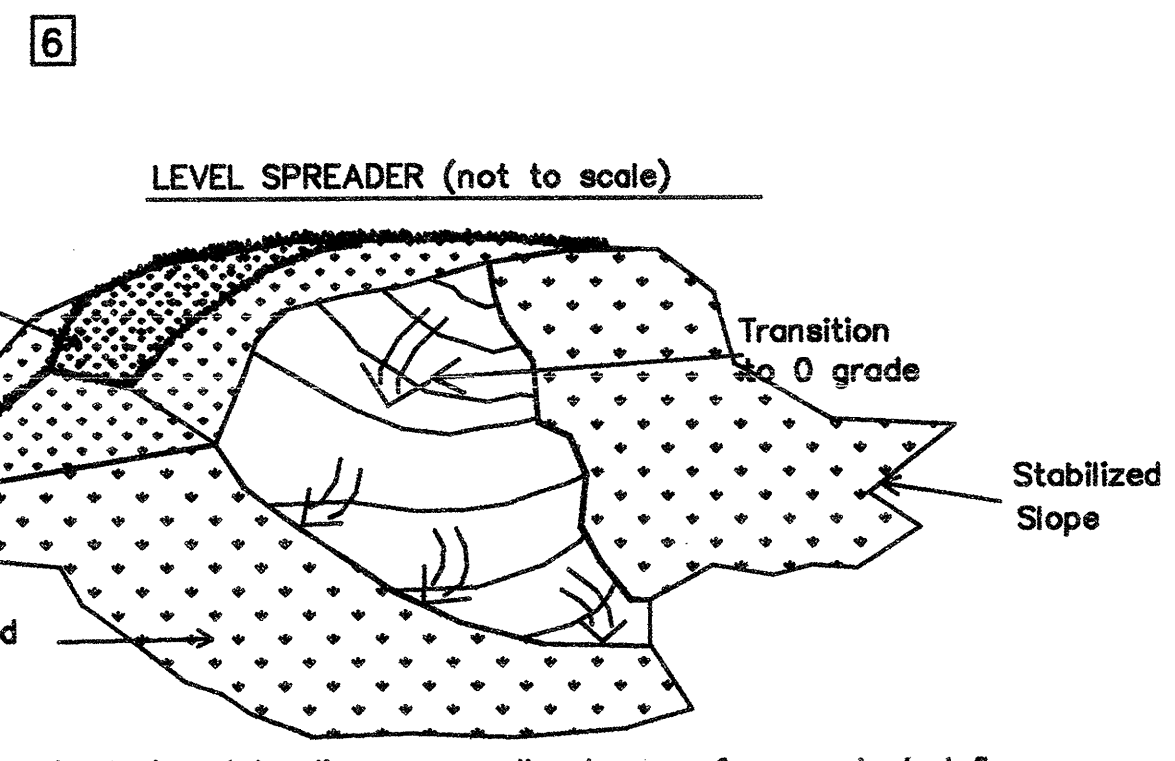


Figure 6.40a Level Spreader is designed to disperse small volumes of concentrated flow across stable slopes.

**Grade:** The grade of the last 20 feet of the diversion channel should provide a smooth transition from channel grade to level at the spreader. The grade of the spreader should be 0%.

**Spreader Lip:** Construct the level lip on undisturbed soil to uniform height and zero grade over the length of the spreader. Protect it with an erosion-resistant material, such as fiberglass matting, to prevent erosion and allow vegetation to become established.

**Outlet Area:** The outlet disposal area must be generally smooth and well-vegetated with a maximum slope of 10%.

Vegetate all disturbed areas.

- The matting should be a minimum of 4 ft. wide extending 6 inches over the lip and buried 6 inches deep in a vertical trench on the lower edge. The upper edge should butt against smoothly cut sod and be securely held in place with closely spaced heavy duty wire staples at least 12 inches long.
- Ensure that the spreader lip is level for uniform spreading of stormwater runoff.
- Construct the level spreader on undisturbed soil (not on fill).
- Construct a 20-ft transition section from the diversion channel to blend smoothly to the width and depth of the spreader.

## 6.40

**Definition**  
A non-erosive outlet for concentrated runoff constructed to disperse flow uniformly across a slope.

**Purpose**  
To convert concentrated flow to sheet flow and release it uniformly over a stabilized area.

**Conditions Where Practice Applies**  
Where sediment-free storm runoff can be released in sheet flow down a stabilized slope without causing erosion.  
Where a level lip can be constructed without filling.  
Where the area below the spreader lip is uniform with the slope of 10% or less and is stable for anticipated flow conditions, preferably well-vegetated.  
Where the runoff water will not re-concentrate after release.  
Where there will be no traffic over the spreader.

**Planning Considerations**  
The level spreader is a relatively low-cost structure to release small volumes of concentrated flow where site conditions are suitable (Figure 6.40a). The outlet area must be uniform and well-vegetated with slopes of 10% or less. Particular care must be taken to construct the outlet lip completely level in a stable, undisturbed soil. Any depressions in the lip will concentrate the flow, resulting in erosion. Evaluate the outlet system to be sure the flow does not concentrate below the outlet (Figure 6.40b). The level spreader is most often used as an outlet for temporary or permanent diversions and diversion dikes. Runoff water containing high sediment loads must be treated in a sediment trapping device before release in a level spreader.

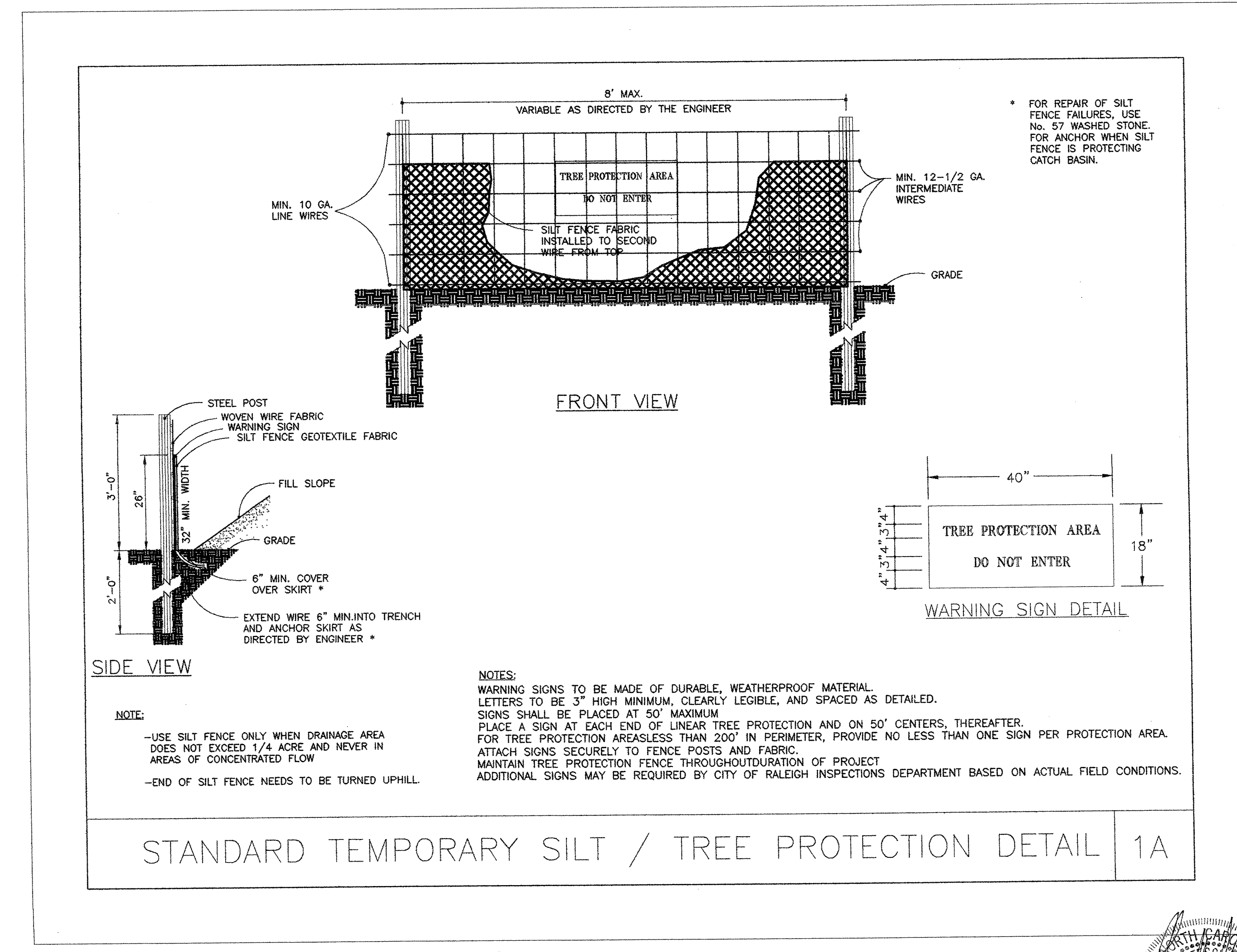
**Design Criteria**  
Capacity: Determine the capacity of the spreader by estimating the peak flow from the 10-year storm. Restrict the drainage area so that the maximum flows into the spreader will not exceed 30cfs.  
Spreader Dimensions: When water enters the spreader from one end, as from a diversion, select the appropriate length, width, and depth of the spreader from Table 6.40a.  
Construct a 20-ft transition section in the diversion channel so the width of the diversion will smoothly meet with the width of the spreader to ensure uniform outflow.

TABLE 6.40a  
Minimum Dimensions for  
Level Spreader

Design Flow cfs	Entrance Width	Depth	End Width	Length
	-----minimum dimension in feet-----			
0 - 10	10	0.5	3	10
10 - 20	16	0.6	3	20
20 - 30	24	0.7	3	30

## Practice Standards and Specifications

### LEVEL SPREADER



## Practice Standards and Specifications

### Cross Section

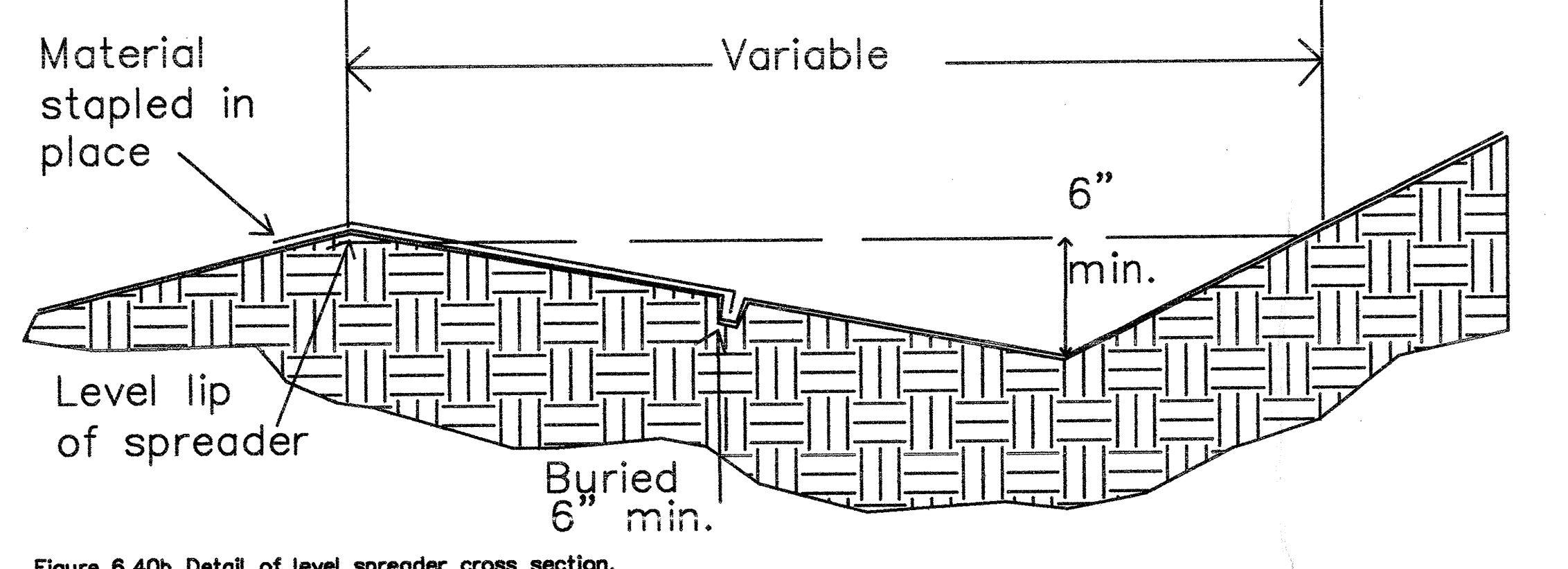


Figure 6.40b Detail of level spreader cross section.

- Disperse runoff from the spreader across a properly stabilized slope not to exceed 10%. Make sure the slope is sufficiently smooth to keep flow from concentrating.
- Immediately after its construction, appropriately seed and mulch the entire disturbed area of the spreader.

**Maintenance**  
Inspect level spreaders after every rainfall until vegetation is established, and promptly make needed repairs. After the area has been stabilized, make periodic inspections and keep vegetation in a healthy, vigorous condition.

**References**  
Surface Stabilization  
6.10, Temporary Seeding  
6.11, Permanent Seeding

Runoff Control Measures  
6.20, Temporary Diversions  
6.21, Permanent Diversions

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LEVEL SPREADER AND  
TREE PROTECTION DETAILS  
ROLESVILLE, NC

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