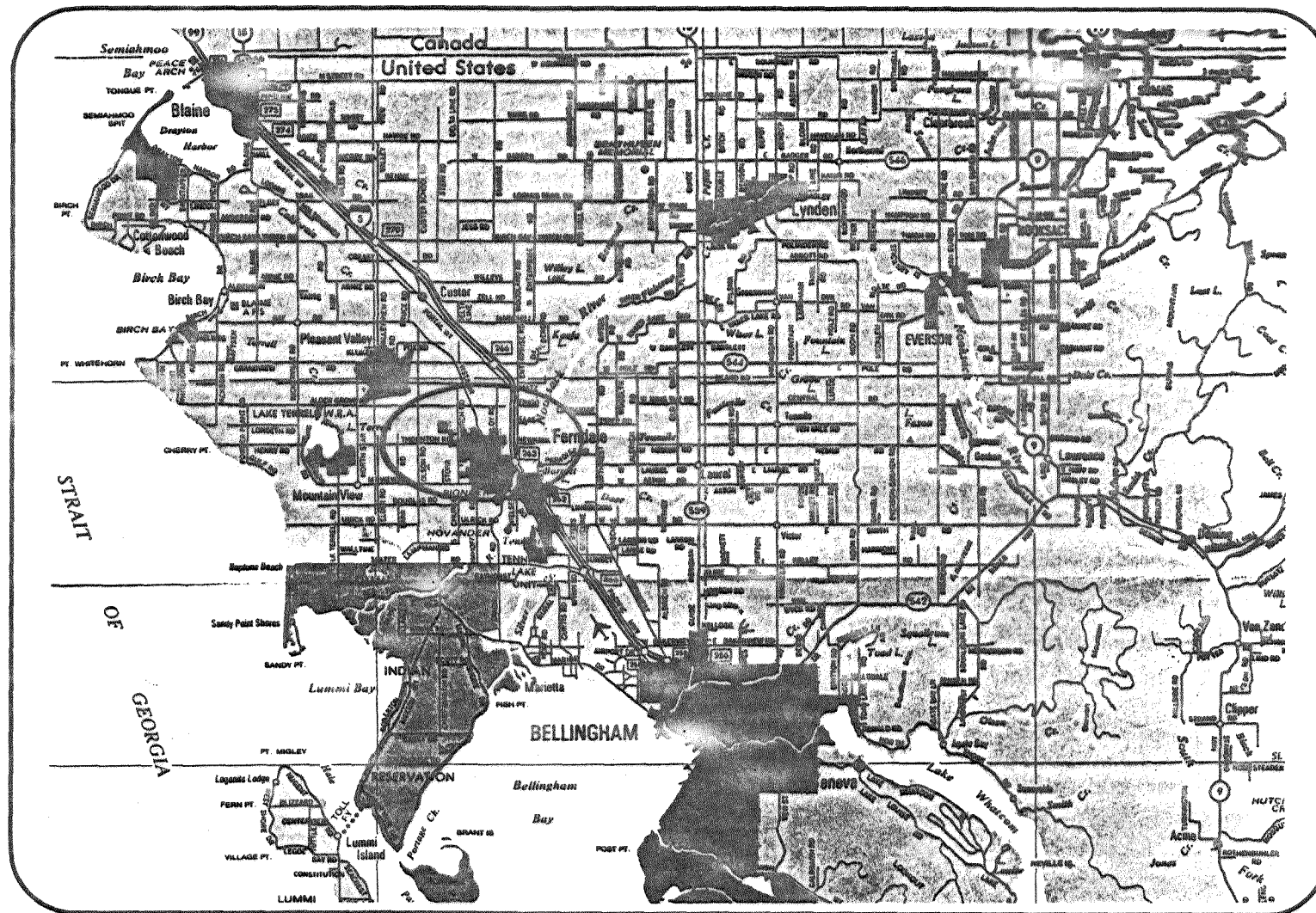


# RON KILMER

# NORTH BEULAH SUBDIVISION

## ROADWAY AND UTILITY IMPROVEMENTS

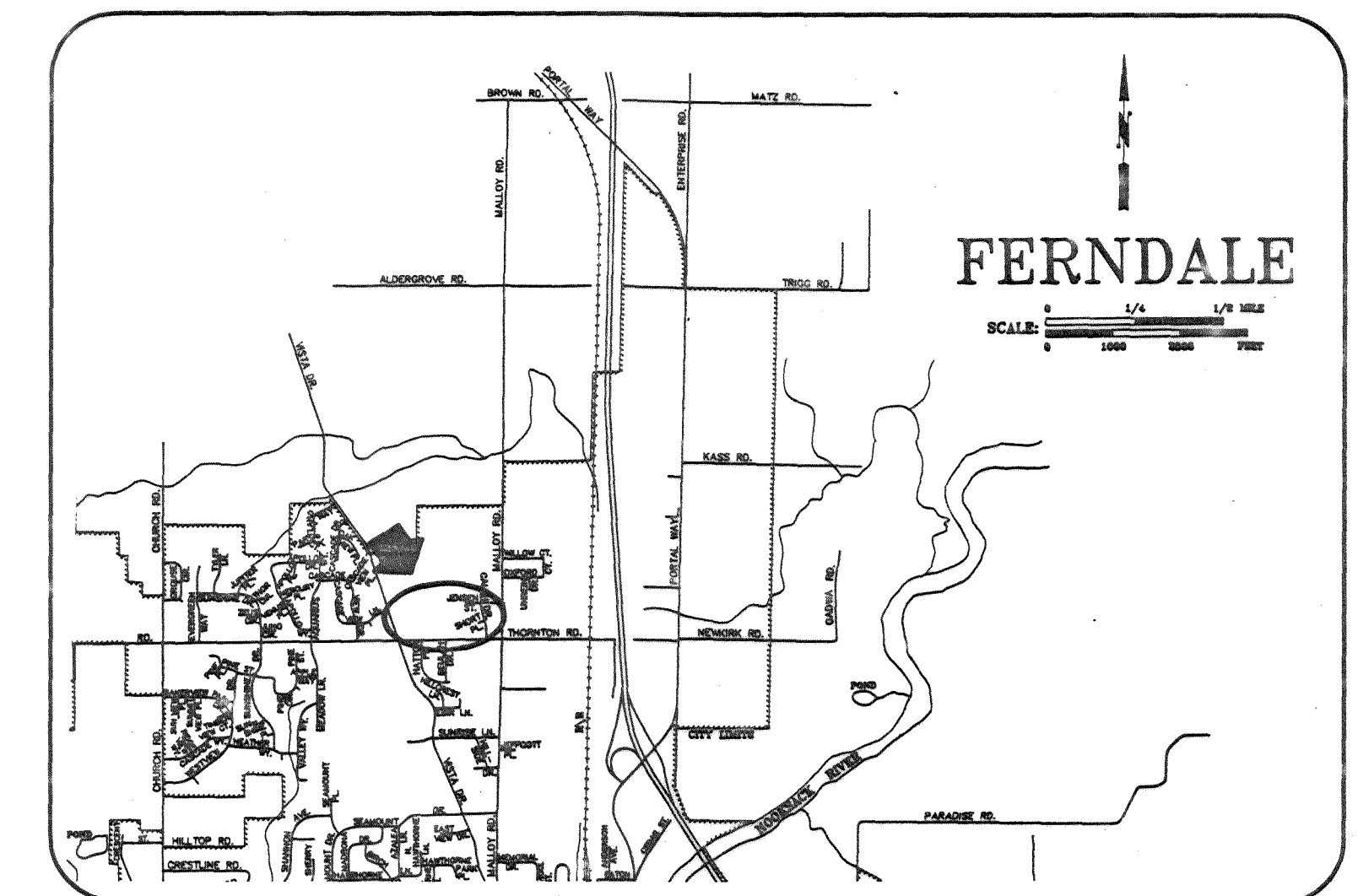
## FERNDALE, WASHINGTON



LOCATION MAP  
(SCALE: 1" = 200')

### TABLE OF SHEETS

SHEET 1	COVER SHEET
SHEET 2	COMPOSITE SHEET
SHEET 3	VIEW COURT ROAD AND DRAINAGE
SHEET 4	VIEW COURT WATER AND SEWER
SHEET 5	DETAILS



VICINITY MAP  
(NOT TO SCALE)

#### SPECIFICATIONS

All work and materials shall conform to the 1991 Edition of the Standard Specification for Road, Bridge and Municipal Construction as prepared by the Washington State Department of Transportation (DOT) and the Washington State Chapter of American Public Works Association (APWA), the City of Ferndale's Ordinance No. 676 and according to the instructions and recommendations of the manufacturer of the materials involved. In case of a conflict between the above standards and recommendations, the more stringent one will apply.

References hereinafter to Division and Sections shall refer to the Standard Specification mentioned above.

#### DIVISION 2: EARTHWORK

1. Clearing, Grubbing and Roadside Cleanup  
Clearing, grubbing and roadside cleanup shall conform to Section 2-01 using disposal Method No. 2.
2. Roadway Excavation and Embankment  
Roadway excavation and embankment shall conform to Section 2-03, using compaction method B. Compaction layers for granular materials shall not exceed 12 inches in depth. Layers for non-granular materials shall not exceed 4 inches in depth.
3. Subgrade Preparation  
Subgrade preparation shall conform to Section 2-06.

4. Ditch and Channel Excavation  
Ditch and channel excavation shall conform to Section 2-10.
5. Trimming and Cleanup  
Trimming and Cleanup shall conform to Section 2-11.

#### DIVISION 3: (NOT USED)

#### DIVISION 4: BASES

1. Asphalt Treated Base  
Asphalt treated base shall conform to Section 4-06.

#### DIVISION 5: SURFACE TREATMENT AND PAVEMENT

1. Asphalt Concrete Pavement  
Asphalt concrete pavement shall conform to Section 5-04. Material shall be Class B.

#### DIVISION 6: STRUCTURES

1. Concrete Structures  
Concrete weirs and miscellaneous structures shall conform to Section 6-02. Concrete shall be Class 3000.

#### DIVISION 7: DRAINAGE STRUCTURES, STORM SEWER, SANITARY SEWER, WATER MAINS AND CONDUITS

1. Storm Sewers  
Storm sewers shall conform to Section 7-04. Pipe material shall be Concrete conforming to Section 9-05.7(1) or PVC conforming to Section 9-05.12. Exfiltration or pressure testing may be required by the Engineer.
2. Manholes, Inlets and Catch Basins  
Manholes, inlets and catch basin shall conform to Section 7-05.
3. Water System  
All water pipe materials and installation shall conform to the applicable portions of Section 7-09 to 7-11, AWWA C600 and C651. In addition, the following provisions apply:
  - a. Pipelines shall be Ductile Iron Class 50, and shall meet the requirements of Section 9-30.1(1), with Cement Lining according to AWWA Standard H3-71, C151-71, and Cement Lining C104-71.
  - b. All fittings shall have a minimum pressure rating of 350 psi and shall conform to Section 9-03.2.
  - c. Excavation shall be in accordance with Section 7-10.3(7) and shall include all materials of whatever nature encountered, including solid rock excavation.

- d. The Contractor shall make all arrangements and pay all applicable fees to the City of Ferndale prior to connecting to the existing water system.
- e. Pavement shall be cut ahead of the excavating machine to prevent excessive tearing up of the surfacing and to eliminate ragged edges. The roadway or driveway surfaces shall be removed only in locations as indicated by the plans and specifications or by the approval of the Engineer.
- f. All water line and appurtenances shall be pressure tested at 200 psi in accordance with Section 7-11.3(11) and City of Ferndale requirements. All purification acceptance testing shall be according to City of Ferndale requirements.
- g. All backfill shall be bankrun gravel backfill and shall meet the requirements of Section 9-30.7(3).
- h. All work must be inspected and approved by a representative of the City of Ferndale Engineering Division, and Twenty-four (24) hours notice must be given prior to starting work or to Schedule Inspection.

NOTE: THIS RECORD DRAWING HAS BEEN PREPARED ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

4. Valves for Water Mains  
Valves for water mains shall conform to Section 7-12. Gate valves shall have screw type cast iron valve boxes. Valves shall be resilient seat gate valves meeting C509-87 and/or C504-877, C550-81 and all City of Ferndale Requirements and suitable for installation with the type and class or pipe used. All valves shall have nonrising stems and shall open counter clockwise and shall be equipped with a 2" square operating nut. Valves will be flange or M.U. joints.
5. Hydrants  
Fire hydrants shall conform to AWWA C502 and City of Ferndale Standard. Installation shall be in accordance with Section 7-14. A blue reflector will be placed in the street across from each hydrant installed.
6. Service Connections  
Service connections shall conform to Section 7-15.
7. Sanitary Sewers  
Sanitary sewers shall conform to Section 7-17. Pipe material shall be PVC conforming to Section 9-05.12.

8. Side Sewer  
Sanitary side sewer shall conform to Section 7-18. Pipe material shall be PVC conforming to Section 9-05.12.

#### DIVISION 8: MISCELLANEOUS CONSTRUCTION

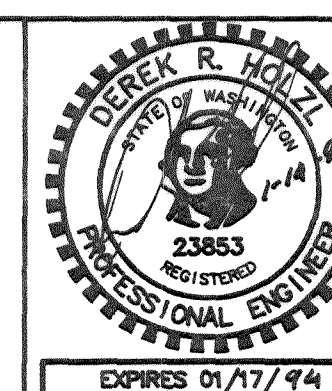
1. Erosion Control  
Temporary erosion and sedimentation control facilities (TESCF) shall conform to Section 8-01 and City of Ferndale Standards. These facilities shall be maintained during construction and removed only after all exposed surfaces subject to erosion have been stabilized by landscaping elements or hydroseeding.
2. Curbs and Gutters  
Curbs and gutters shall conform to Section 8-04.
3. Cement Concrete Sidewalks  
Cement concrete sidewalks shall conform to Section 8-14. Provide curb ramps where shown.
4. Riprap  
Riprap shall conform to Section 8-15.
5. Permanent Signing  
Permanent signing shall conform to Section 8-21.
6. Pavement Markings  
Pavement marking shall conform to Section 8-22.

### RECORD DRAWING

1	RECORD DRAWINGS	DRH	DEC 92
NO.	REVISIONS	BY	DATE

**Wilson Engineering**  
CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET #7  
BELLINGHAM, WA 98225  
(206) 733-6100  
FAX: (206) 647-9061



DESIGNED BY:  
DH  
DRAWN BY:  
DH  
CHECKED BY:  
JT

RON KILMER - RECORD DRAWINGS  
NORTH BEULAH SUBDIVISION  
COVER SHEET AND NOTES

DATE	SHEET
DEC 92	1
SCALE	OF
AS SHOWN	
JOB NUMBER	5
92021	

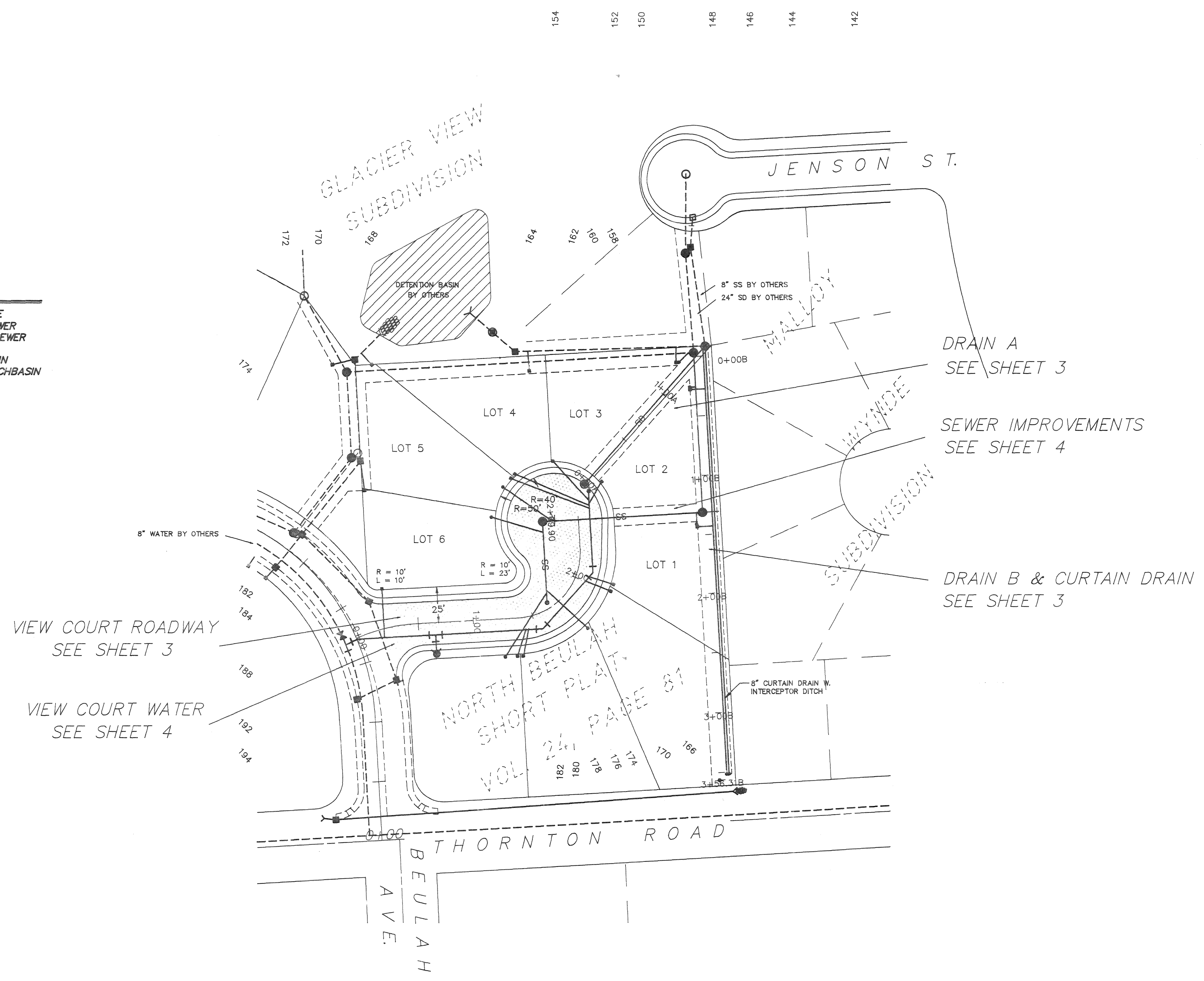
B:\92021A01.DWG



00124.002 2-14-06

**LEGEND**

- SS - EXISTING CONTOUR LINE
- SS - EXISTING SANITARY SEWER
- W - PROPOSED SANITARY SEWER
- SD - PROPOSED WATER LINE
- SD - PROPOSED STORM DRAIN
- SD - PROPOSED STORM CATCHBASIN
- X - EXISTING FENCE LINE
- - WOODLAND BOUNDARY
- - WETLAND BOUNDARY



50 0 50 100  
SCALE  
1" = 50'  
1" = 5'

**CAUTION !!!**  
UG and OH Utilities are known to exist in the area. Not all are shown.

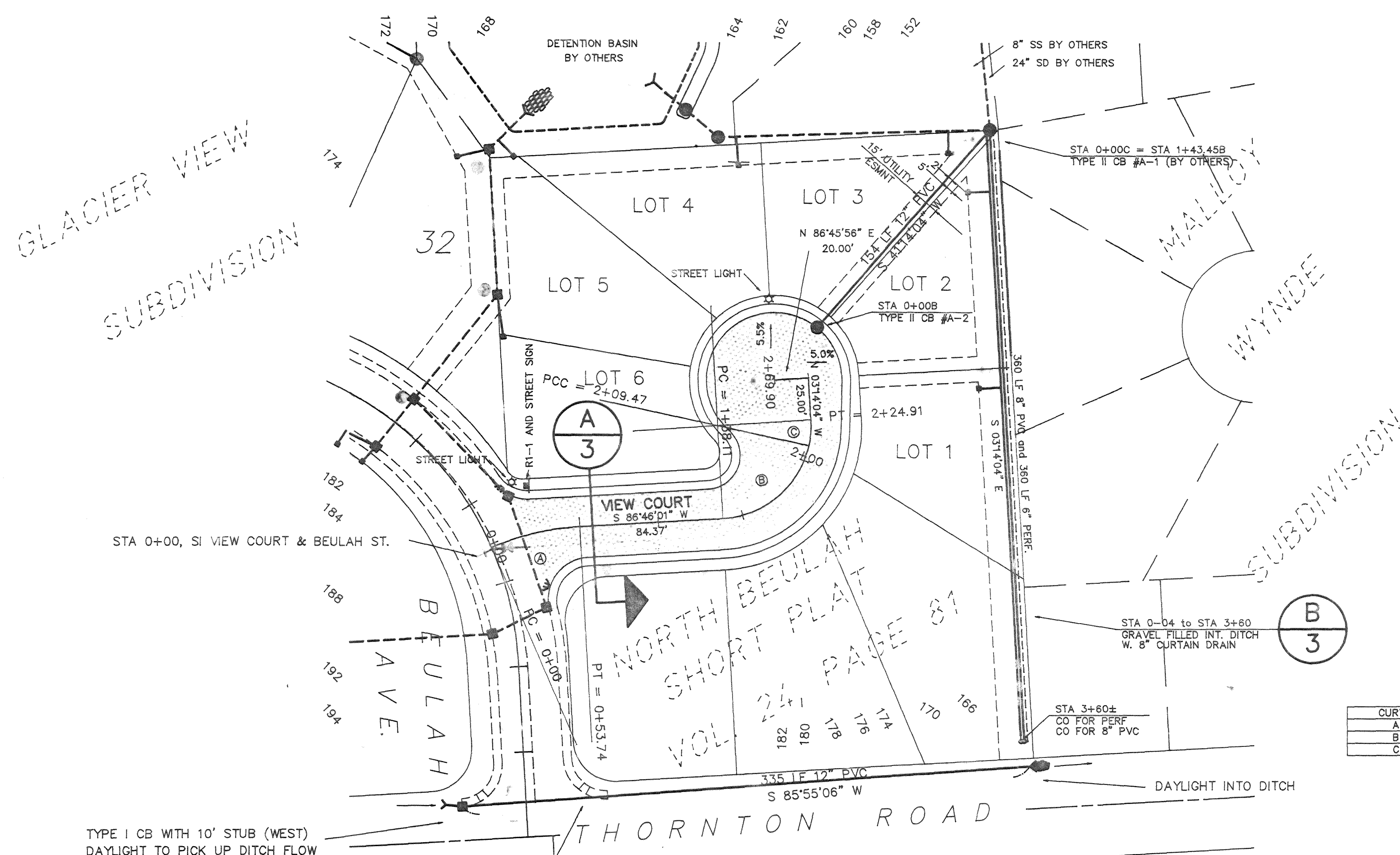
**LEGEND**

- SS - EXISTING CONTOUR LINE
- SD - PROPOSED STORM DRAIN
- - EXISTING WATER
- W - PROPOSED WATER LINE
- SS - EXISTING SANITARY SEWER
- SD - PROPOSED SANITARY SEWER

NOTE: THIS RECORD DRAWING HAS BEEN PREPARED ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

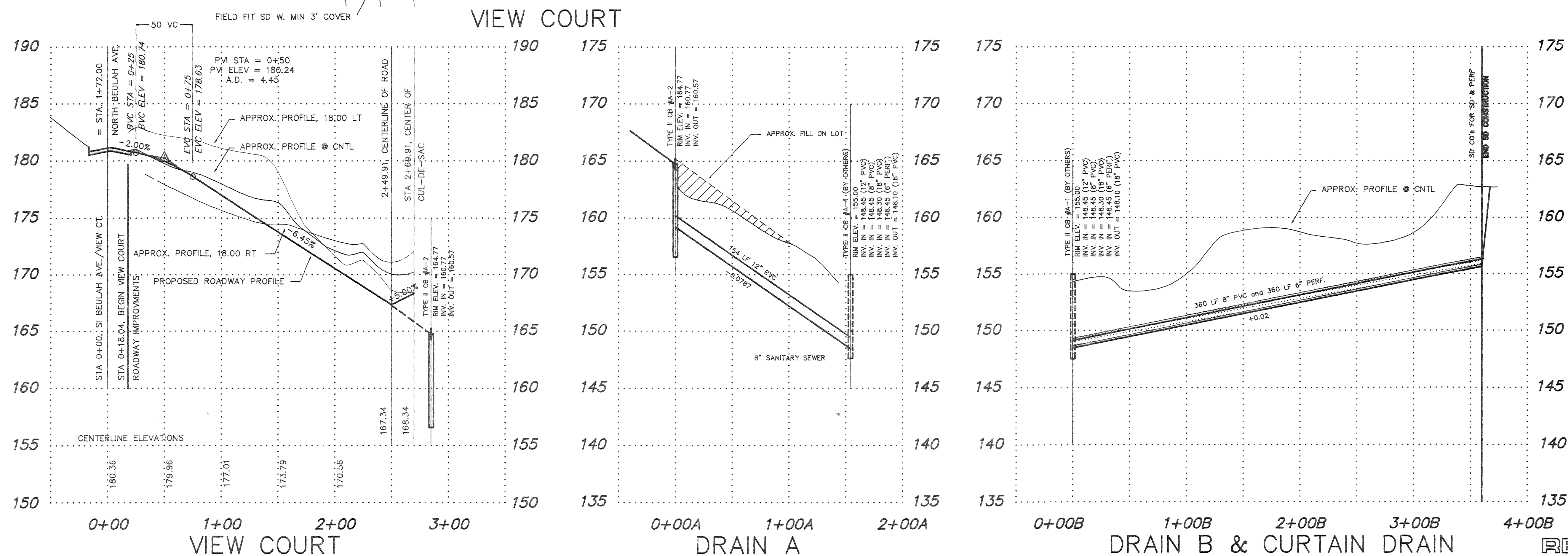
**RECORD DRAWING**

1	RECORD DRAWINGS	DRH	DEC 92												
<div><div><b>Wilson Engineering</b> CONSULTING ENGINEERS &amp; SURVEYORS</div><div>805 DUPONT STREET #7 BELLINGHAM, WA 98225 (206) 733-6100 FAX: (206) 647-9061</div><div><b>DESIGNED BY:</b> DH <b>DRAWN BY:</b> DH <b>CHECKED BY:</b> JT</div><div><b>RON KILMER — RECORD DRAWINGS</b> NORTH BEULAH SUBDIVISION COMPOSITE SHEET</div><div><table border="1"><tr><td>DATE</td><td>DEC 92</td><td>SHEET</td><td>2</td></tr><tr><td>SCALE</td><td>AS SHOWN</td><td>OF</td><td></td></tr><tr><td>JOB NUMBER</td><td>92021</td><td></td><td>5</td></tr></table></div></div>				DATE	DEC 92	SHEET	2	SCALE	AS SHOWN	OF		JOB NUMBER	92021		5
DATE	DEC 92	SHEET	2												
SCALE	AS SHOWN	OF													
JOB NUMBER	92021		5												
NO.	REVISIONS	BY	DATE												




CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA
A	151.57'	53.74'	27.15'	53.46'	201°44'
B	55.00'	71.36'	41.70'	66.46'	74°20'06"
	55.00'	15.44'	7.72'	15.39'	18°28'00"

NOTE: THIS RECORD DRAWING HAS BEEN PREPARED ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

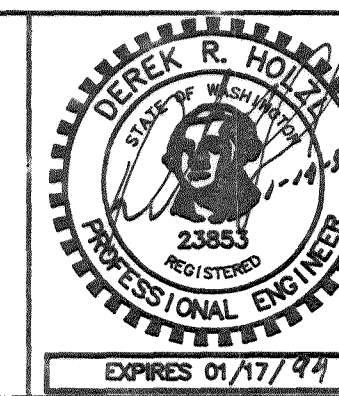


1	PROFILE & V-CURVE	DRH	8-25-92
2	RECORD DRAWINGS	DRH	DEC 92
NO.	REVISIONS	BY	DATE



**Wilson Engineering**  
CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET #7  
BELLINGHAM, WA 98225  
(206) 733-6100  
FAX: (206) 647-9061

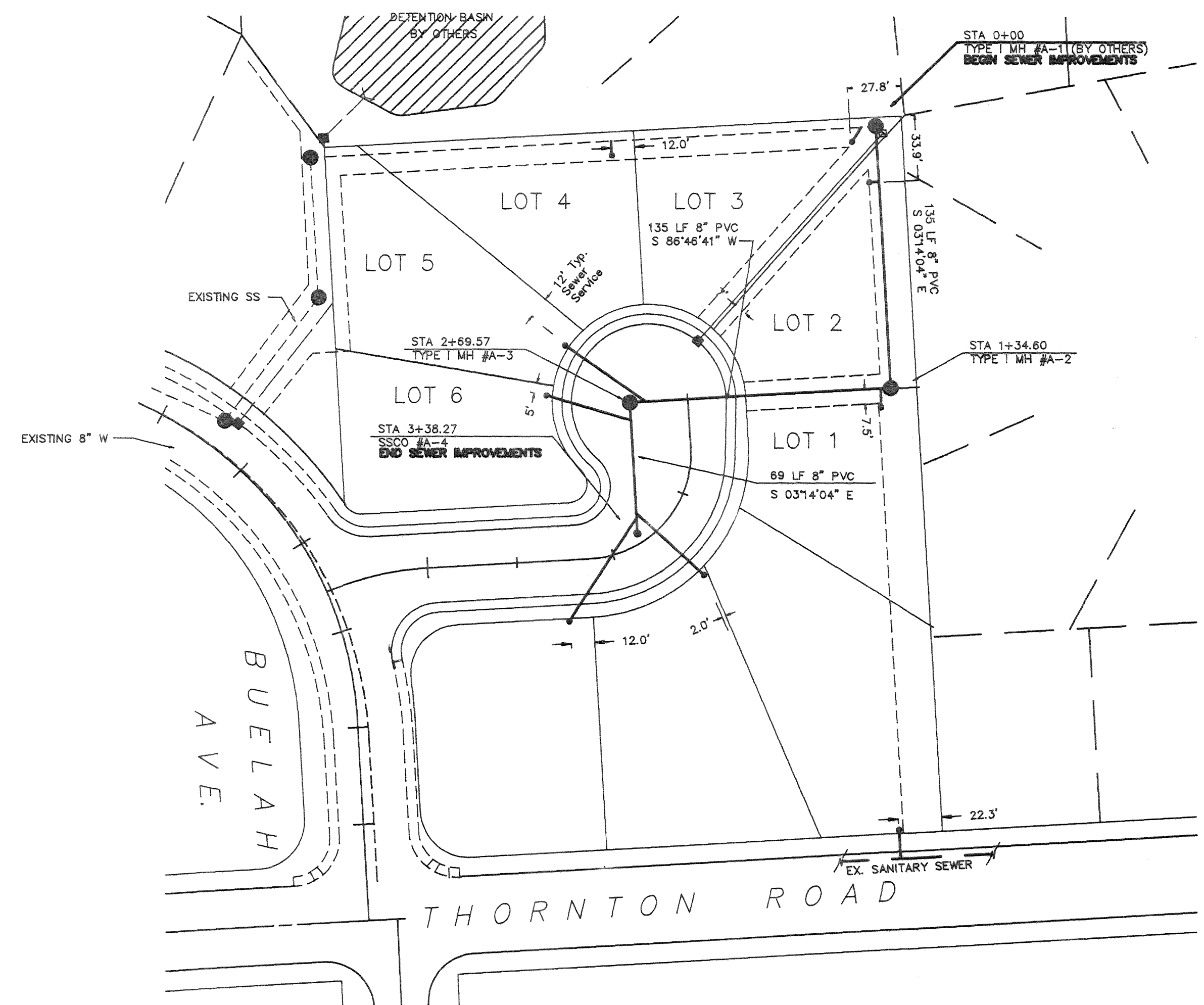
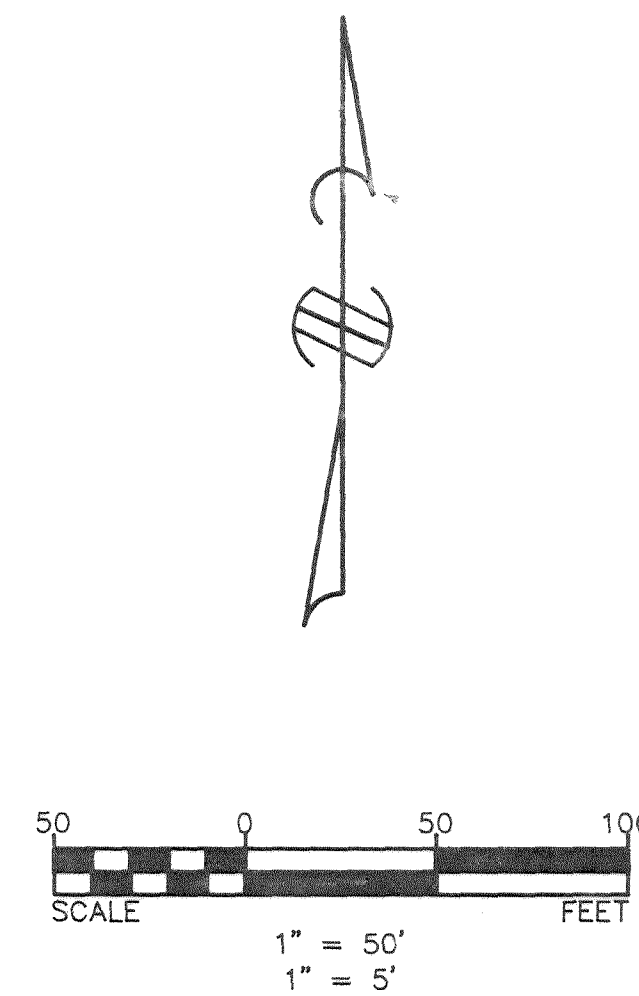
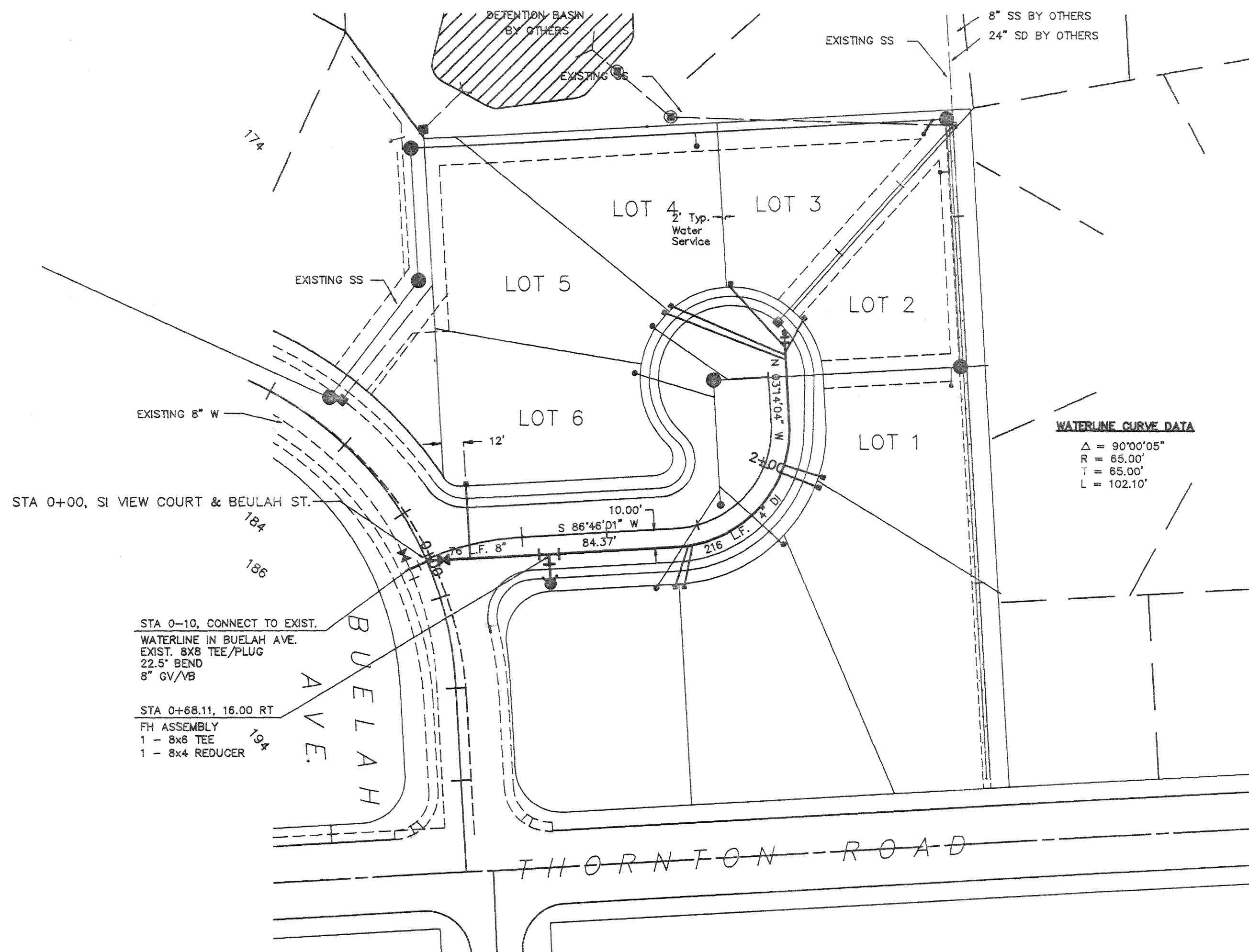


DESIGNED BY:	DH
DRAWN BY:	DH
CHECKED BY:	JT

RON KILMER - RECORD DRAWINGS  
NORTH BEULAH SUBDIVISION  
VIEW COURT ROAD AND DRAINAGE

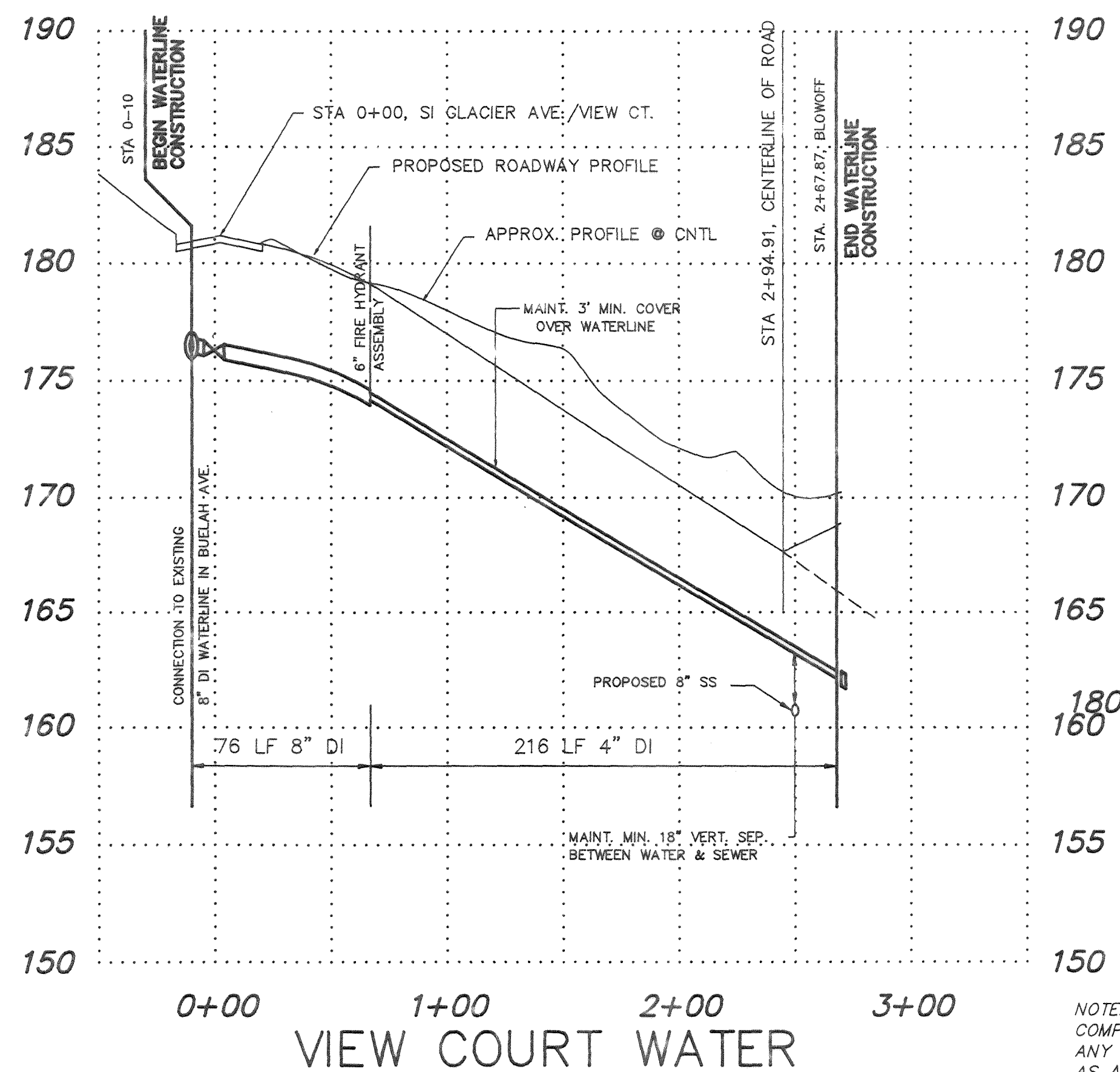
DATE DEC 92	SHEET 3
SCALE AS SHOWN	
JOB NUMBER 92021	OF 5





VIEW COURT WATER

VIEW COURT SEWER



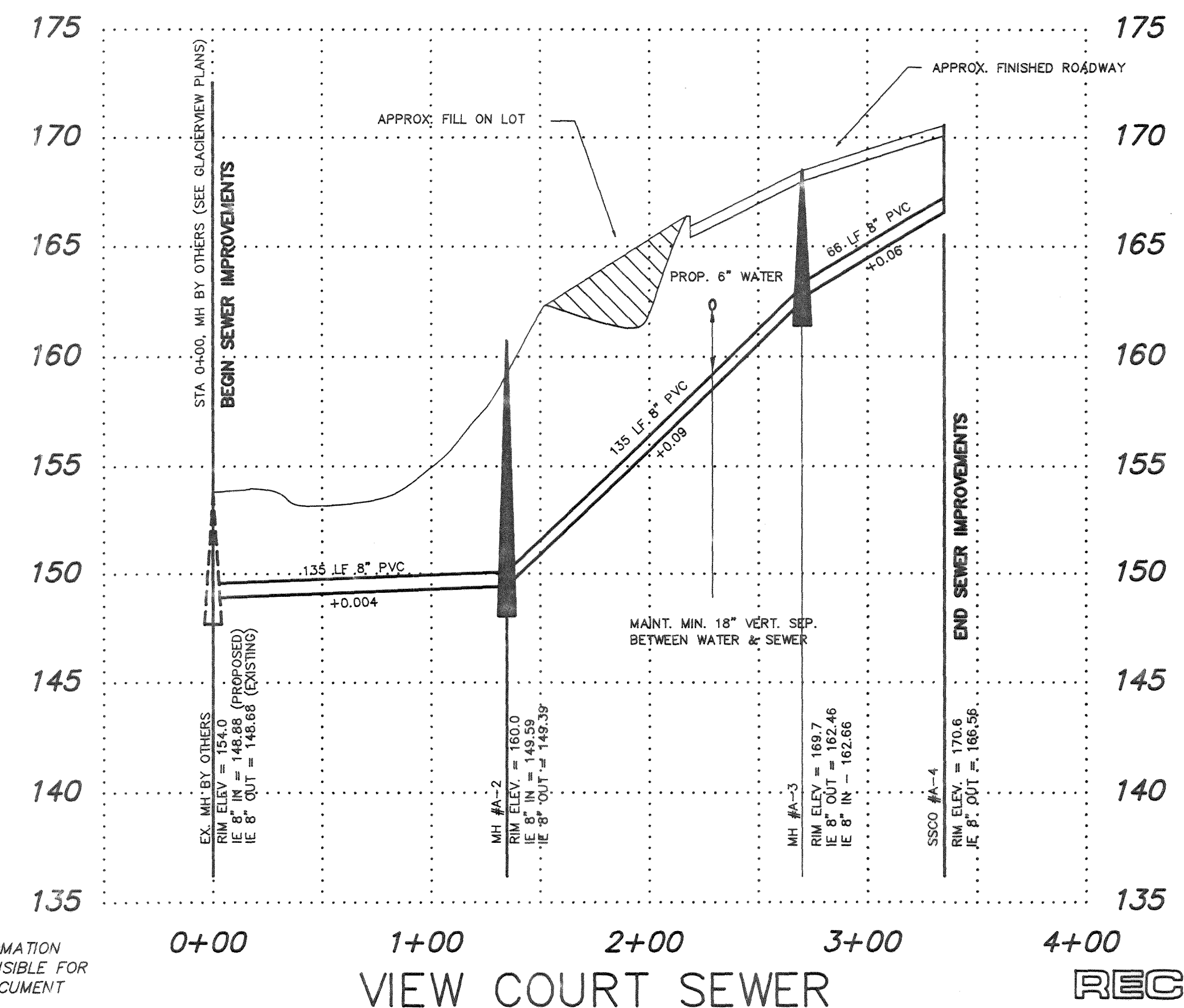
**LEGEND**

35  
50

EXISTING CONTOUR LINE  
PROPOSED STORM DRAIN  
EXISTING WATER  
PROPOSED WATER LINE  
EXISTING SANITARY SEWER  
PROPOSED SANITARY SEWER

**CAUTION !!!**

UG and OH Utilities are known to exist in the area. Not all are shown.

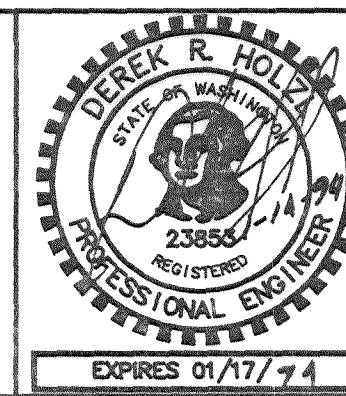


RECORD DRAWING

1	ROADWAY PROFILE & MH#A-4	DRH	8-25-92
2	RECORD DRAWINGS	DRH	DEC 92
NO.	REVISIONS	BY	DATE

**Wilson Engineering**  
CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET #7  
BELLINGHAM, WA 98225  
(206) 733-6100  
FAX: (206) 647-9061



DESIGNED BY:  
DH  
DRAWN BY:  
DH  
CHECKED BY:  
JT

RON KILMER - RECORD DRAWINGS  
NORTH BEULAH SUBDIVISION  
WATER AND SEWER IMPROVEMENTS

DATE	SHEET
DEC 92	4
SCALE	OF
AS SHOWN	
JOB NUMBER	5
92021	

B:\92021A04.DWG

00126.000 2-14-96 42



