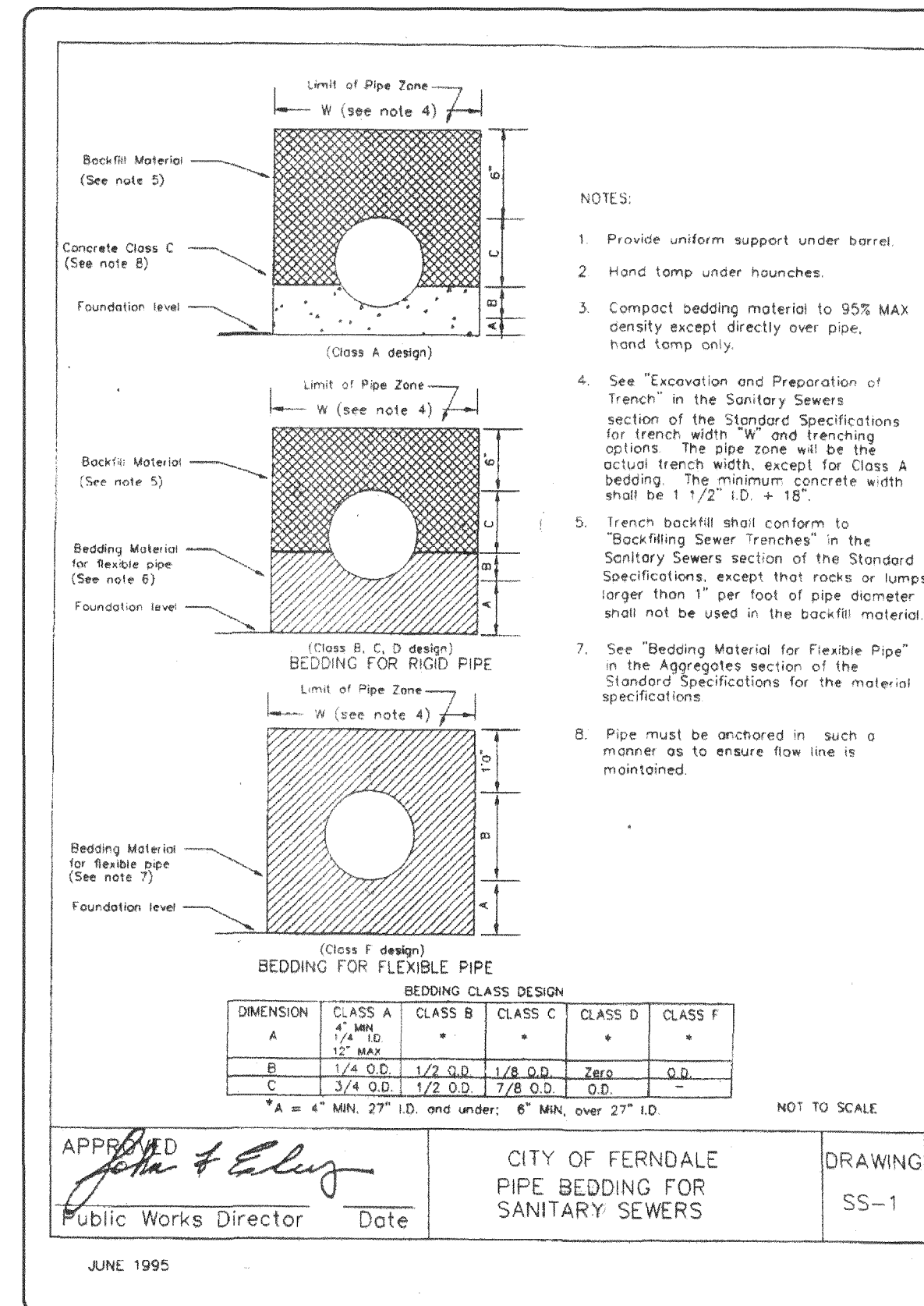
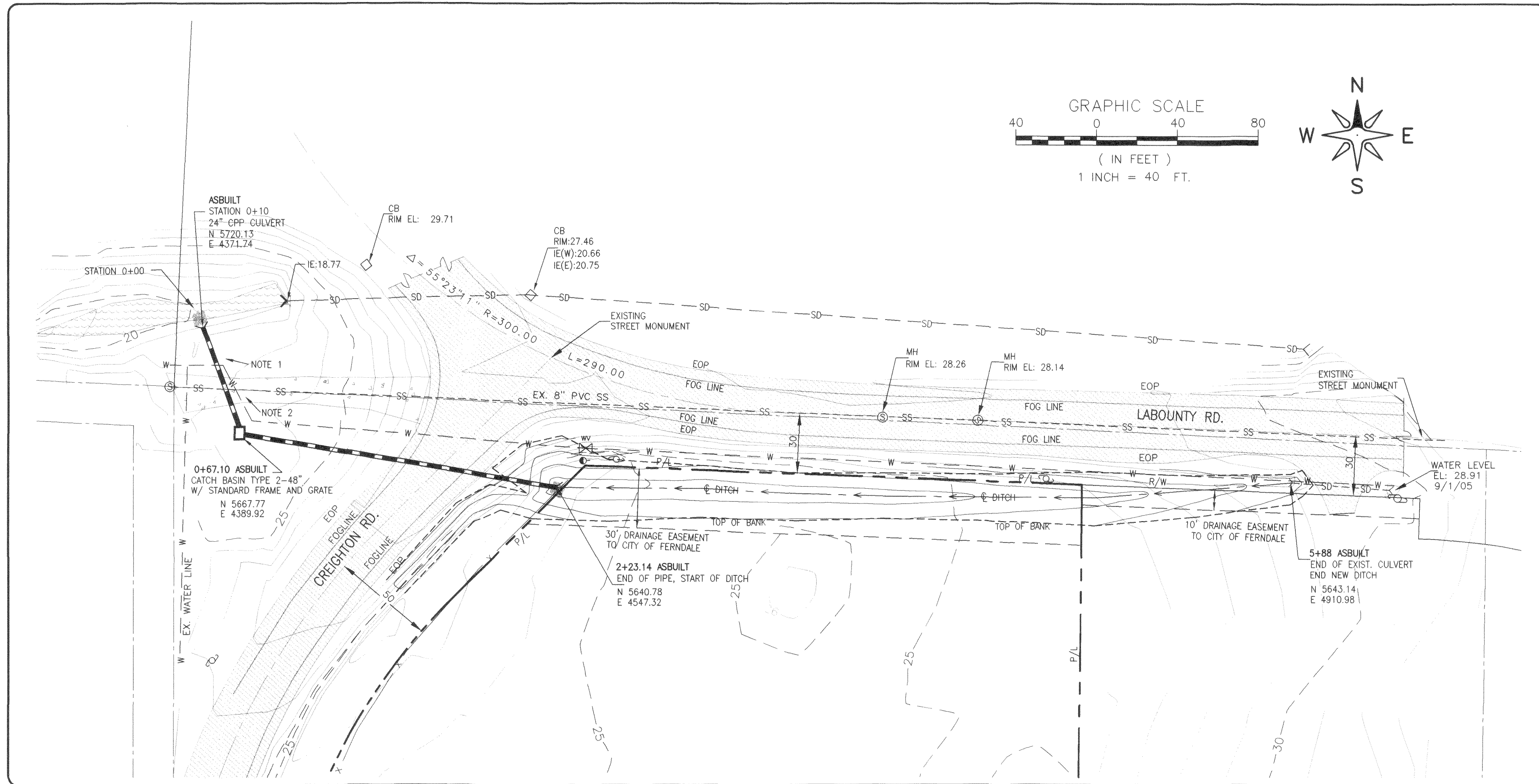
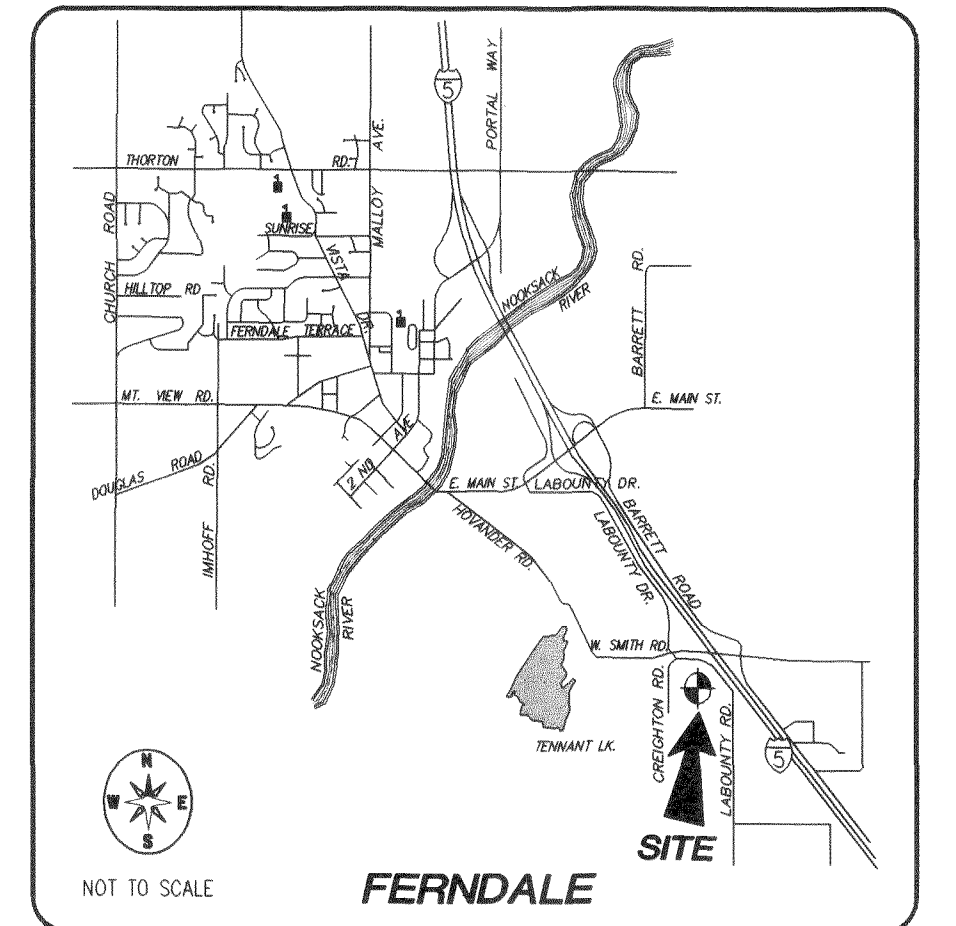
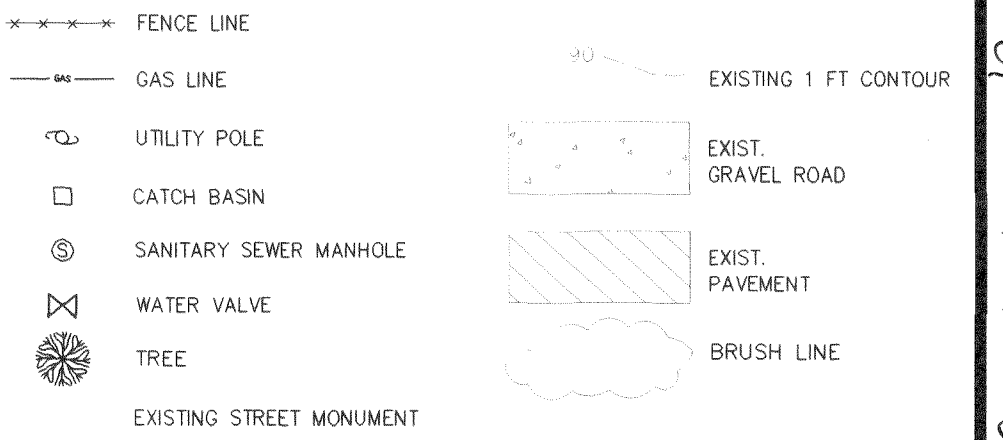




LEGEND



CONSTRUCTION NOTES:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH APWA STANDARD SPECIFICATIONS, CURRENT EDITION, CITY OF FERNDALE DEVELOPMENT STANDARDS, AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.
- ALL WORK MUST BE INSPECTED BY A REPRESENTATIVE OF THE CITY OF FERNDALE PUBLIC WORKS STAFF.
- ALL TRENCHES SHALL BE BACK FILLED WITH CLASS B BANK RUN GRAVEL OR SUITABLE NATIVE MATERIAL AS DIRECTED BY CITY & COMPUTED TO 95% OF OPTIMUM DENSITY.
- PIPE BEDDING PER DETAIL SS-1.
- A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY CONTRACTOR AND APPROVED BY CITY PUBLIC WORKS DEPARTMENT PRIOR TO COMMENCING WORK.
- A REVOCABLE RIGHT-OF-WAY ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE CITY OF FERNDALE PRIOR TO COMMENCING WORK.
- SILT FENCING SHALL BE INSTALLED PRIOR TO ANY EXCAVATION.
- ROAD CROSSING PAVEMENT SHALL BE SAW CUT AND REPAIRED PER DETAIL R-11.

RATIONAL DRAINAGE CALCULATIONS

UPSTREAM BASIN 34.7 AC

2 DU/AC - NO DETENTION C=0.36

LABOUNTY ESTATES HAS STORMWATER DETENTION POND.

B. LABOUNTY ESTATES 14.8 AC ±

MODEL AS PASTURE C = 0.20

C. REMAINDER MODEL AS PASTURE

	A	C	A+C
30.7 AC	0.20	6.14	
4.0 AC	0.36	1.44	
SUM A+C		7.58	

TOC $T_i = L_i / 60(KR)(S_i)^{1/2}$

INCREMENTAL TIME =

INCREMENTAL LENGTH /

60 * ROUGHNESS FACTOR * INCREMENTAL SLOPE^{1/2}

SEGMENT	LENGTH	SLOPE	DESC.	Kr	Ti
1	290'	0.048	MEADOW	2.5	8.8
2	270'	0.037	MEADOW	2.5	9.4
3	100'	0.053	MEADOW	2.5	4.3
4	90'	0.022	MEADOW	2.5	4.0
5	400'	0.002	GRASS DITCH	15	9.9
6	175'	0.003	GRASS DITCH	15	3.6
					SUM Ti = 40 MIN.

$i(100) = 1.23$

$Q(100) = A * I * C = 9.3 CFS$

$i(25) = 1.00$

$Q(25) = 7.6 CFS$

$i(2) = 0.57$

$Q(2) = 4.3 CFS$

CONTROL DATUM

POSITION:

NW MON PLAT OF LABOUNTY ESTATES (PT #1)

ASSUMED COORDINATES: N 5000

MERIDIAN:

WEST IN LABOUNTY ESTATES

ASSUMED BEARING N 00°40'54" E

E 5000

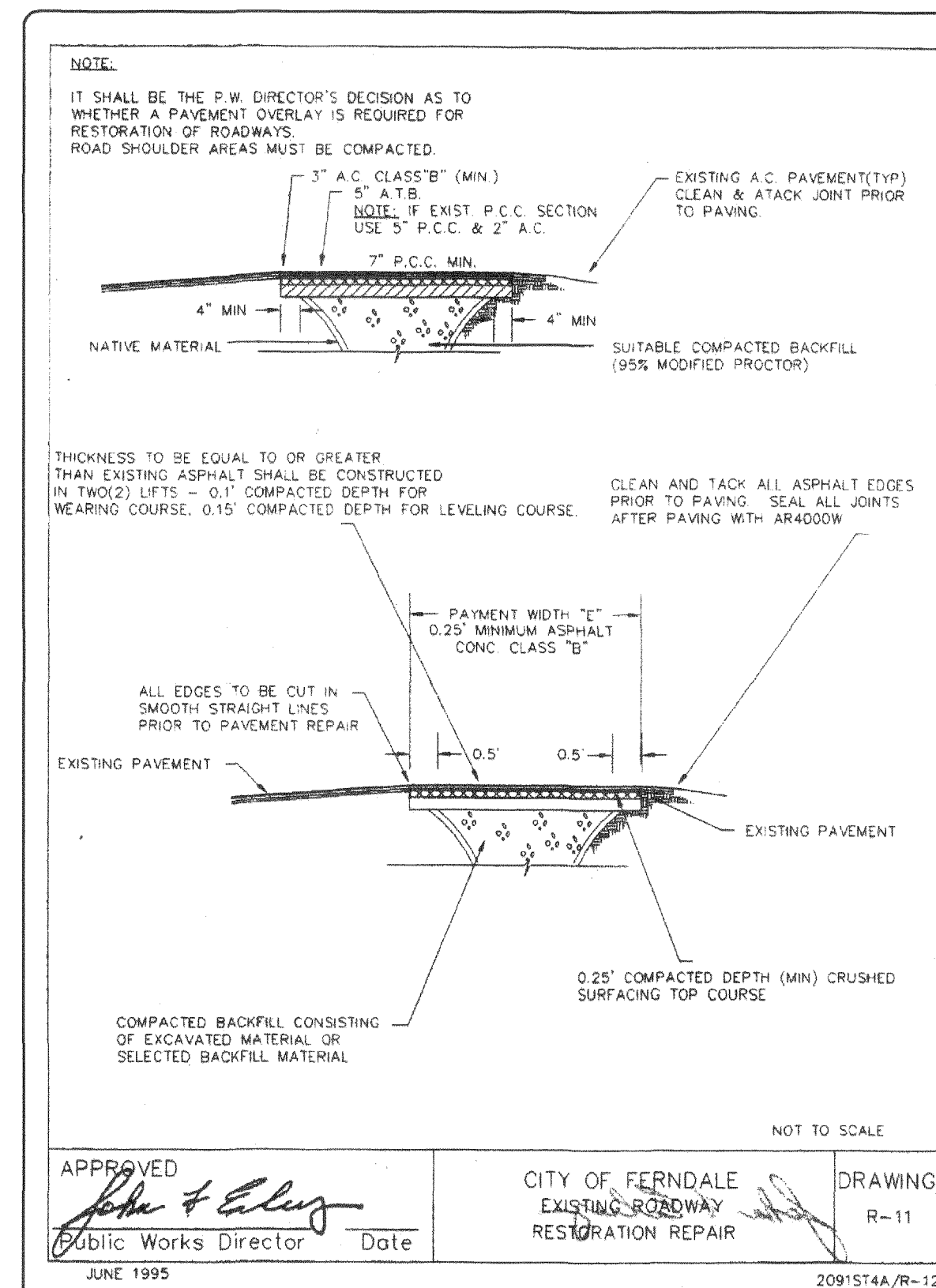
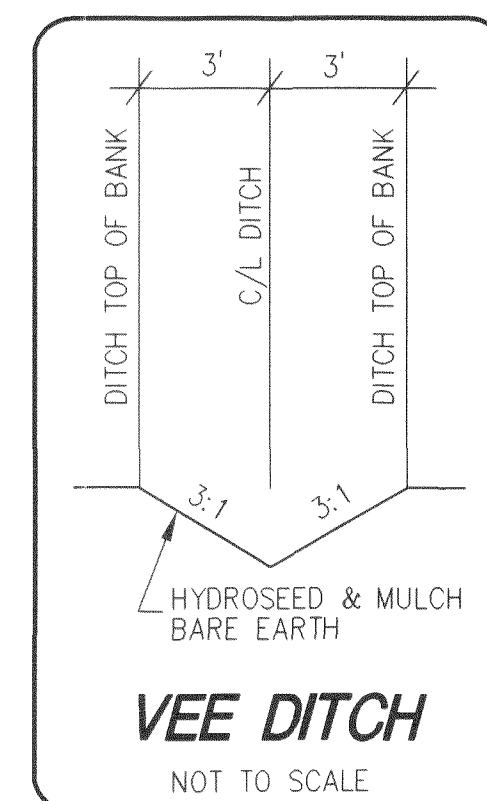
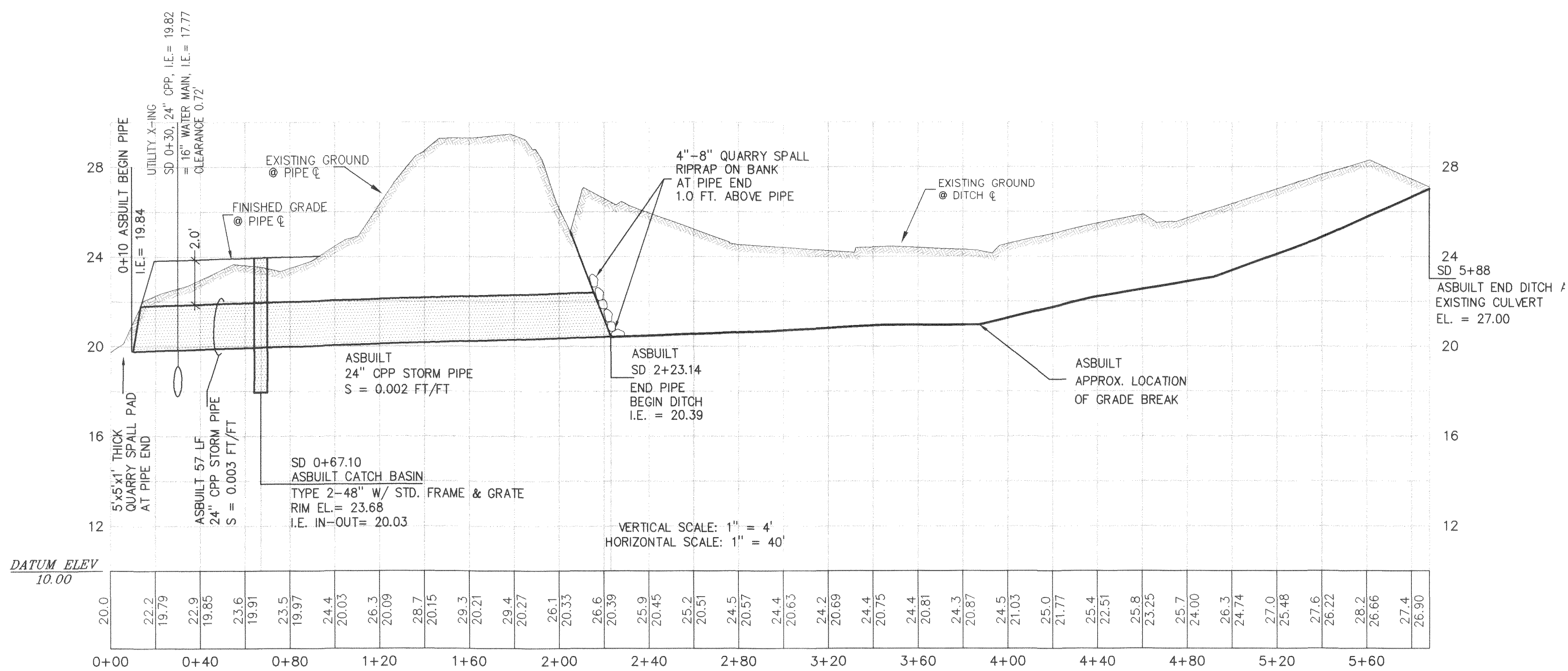
BENCH MARK:

BRASS MON. NEAR CORNER OF SMITH AND LABOUNTY

(FERNDALE, BM#12)

ELEV. = 31.17

STORM DRAINAGE PROFILE



DRAWN BY: SJW DATE 9/14/05

CHECKED BY: DATE

JOB # 05025

FOR:

CREIGHTON RD PROPERTY

DON GUSTAFSON

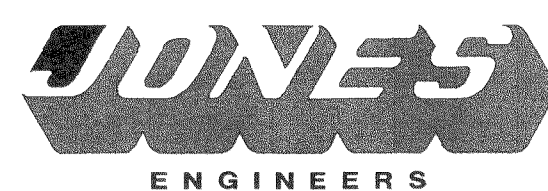
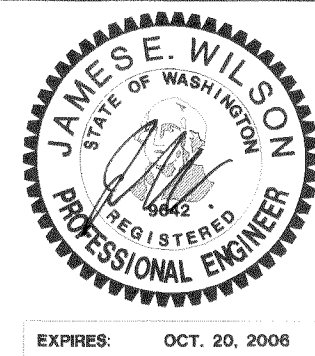
PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THIS DOCUMENT, CONSISTING OF PLANS, DESIGNS, AND SPECIFICATIONS, WAS PREPARED UNDER MY PERSONAL SUPERVISION AND MEETS CITY OF FERNDALE CODES AND STANDARDS AND FURTHER THAT SAID PLANS MEET THE GENERALLY ACCEPTED STANDARDS OF ENGINEERING PRACTICE WITHIN THE STATE OF WASHINGTON.

James E. Wilson 7/27/06

JAMES E. WILSON, P.E., PLS

DATE



phone 360.733.8888 fax 360.671.6666 web jonesengineers.us

4164 Meridian Street • Suite 200 • Bellingham, Washington 98226

LABOUNTY - CREIGHTON RD

CULVERT AND DITCH
RECORD DRAWING

RECEIVED

JUL 28 2006

BY:

SHEET

1

OF 1

00332.001 9.25.06