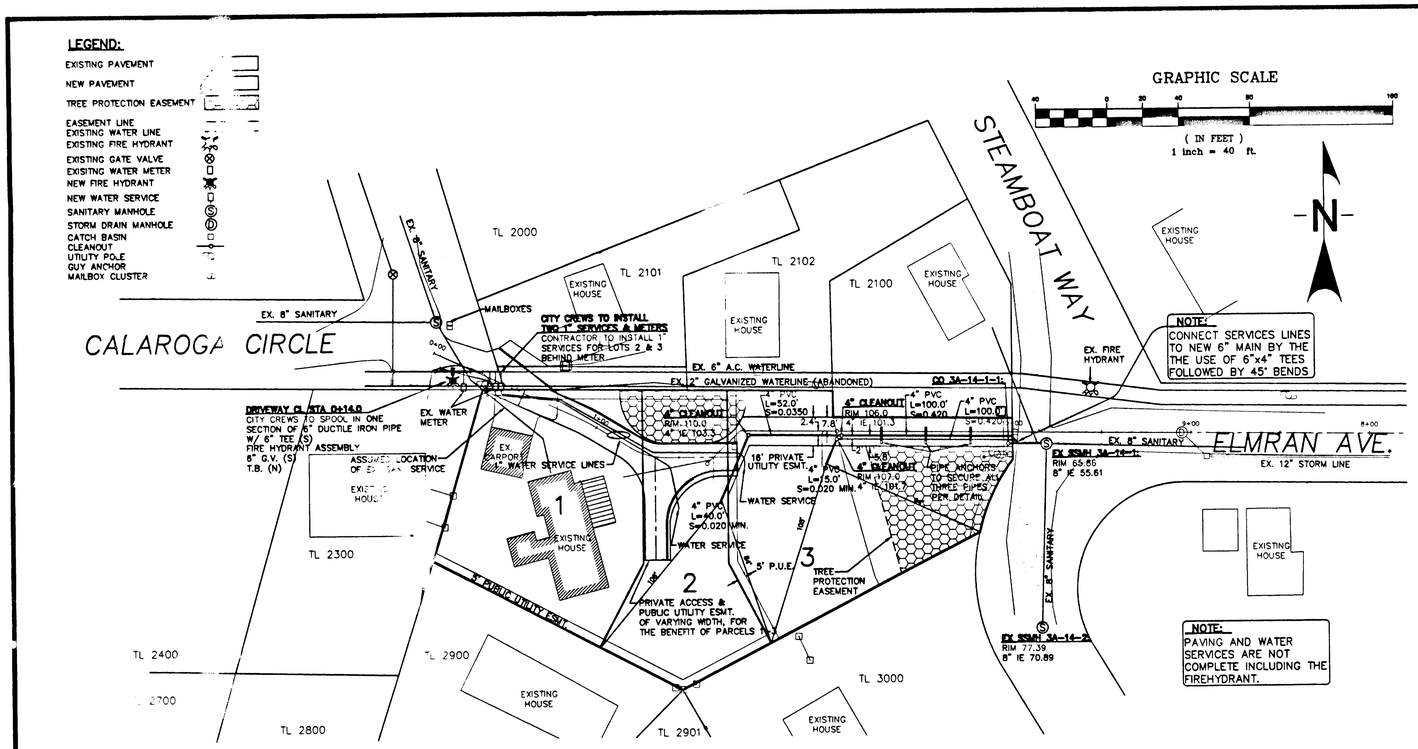
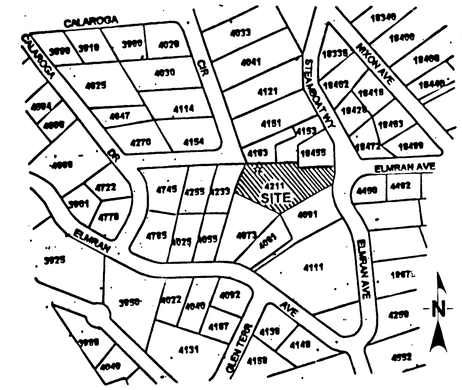
LEGEND:

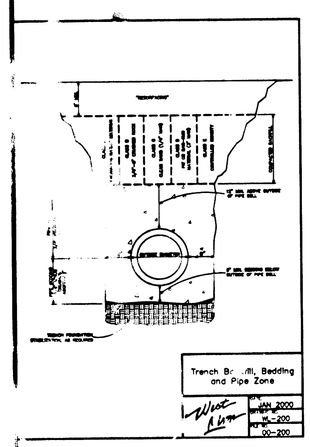
- EXISTING PAVEMENT
- NEW PAVEMENT
- TREE PROTECTION EASEMENT
- EASEMENT LINE
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING WATER METER
- NEW FIRE HYDRANT
- NEW WATER SERVICE
- SANITARY MANHOLE
- STORM DRAIN MANHOLE
- CATCH BASIN
- CLEANOUT
- UTILITY POLE
- GUY ANCHOR
- MAILBOX CLUSTER



AS BUILTS

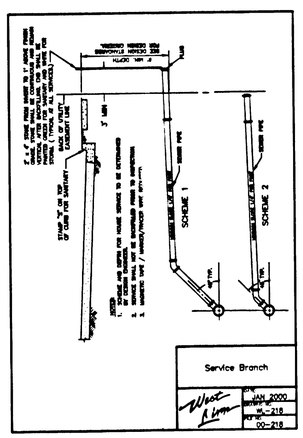


VICINITY MAP



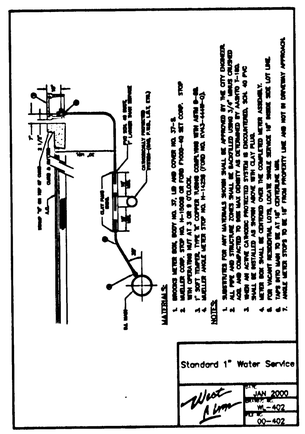
Trench Backfill, Bedding and Pipe Zone

West A Lim	DATE JAN 2000 DRAWN BY WL-200 REF NO. 00-200



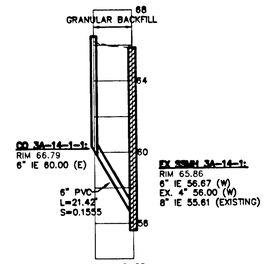
Service Branch

West A Lim	DATE JAN 2000 DRAWN BY WL-218 REF NO. 00-218

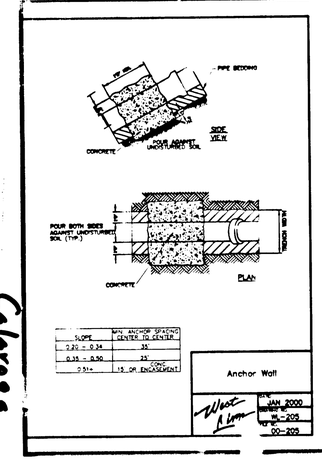


Standard 1" Water Service

West A Lim	DATE JAN 2000 DRAWN BY WL-402 REF NO. 00-402

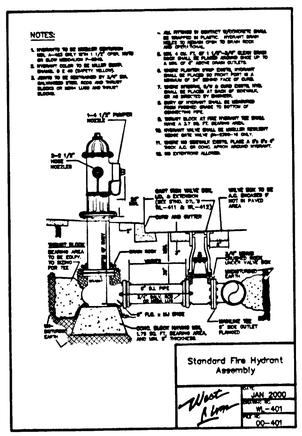


SANITARY LATERAL
3A-14-1-1
PUBLIC SANITARY SEWER
IN ELMRAN AVE.
SCALE: HORZ: 1"=40'
VERT: 1"=4'



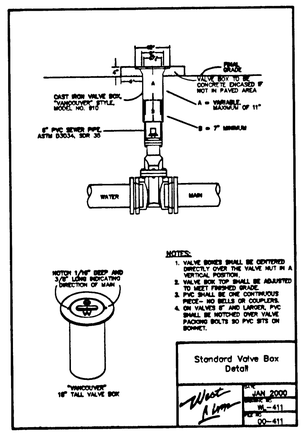
Anchor Wall

West A Lim	DATE JAN 2000 DRAWN BY WL-205 REF NO. 00-205



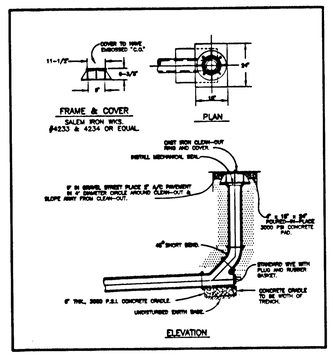
Standard Fire Hydrant Assembly

West A Lim	DATE JAN 2000 DRAWN BY WL-401 REF NO. 00-401



Standard Valve Box Detail

West A Lim	DATE JAN 2000 DRAWN BY WL-411 REF NO. 00-411



REGISTERED PROFESSIONAL ENGINEER 50,422 OREGON July 21, 1998 JOSEPH E. EGNER
7/11/00

REVISIONS	BY
REVISE PER 1st REVIEW ADD LEGEND, SPOOL IN 6" W. MAIN, NOTES	PS 7/9/99
REVISE PER 2nd REVIEW CONNECTED TO BOTTOM OF MH, UPDATED DETAIL	KE 8/19/00
AS-BUILT 06/15/2000	LD

CALAROGA CIRCLE PARTITION

IAN BURNS

Waterline & Sanitary Sewer Plan

SISUL ENGINEERING
375 PORTLAND AVENUE
GLADSTONE, OREGON 97027
(503) 657-0188

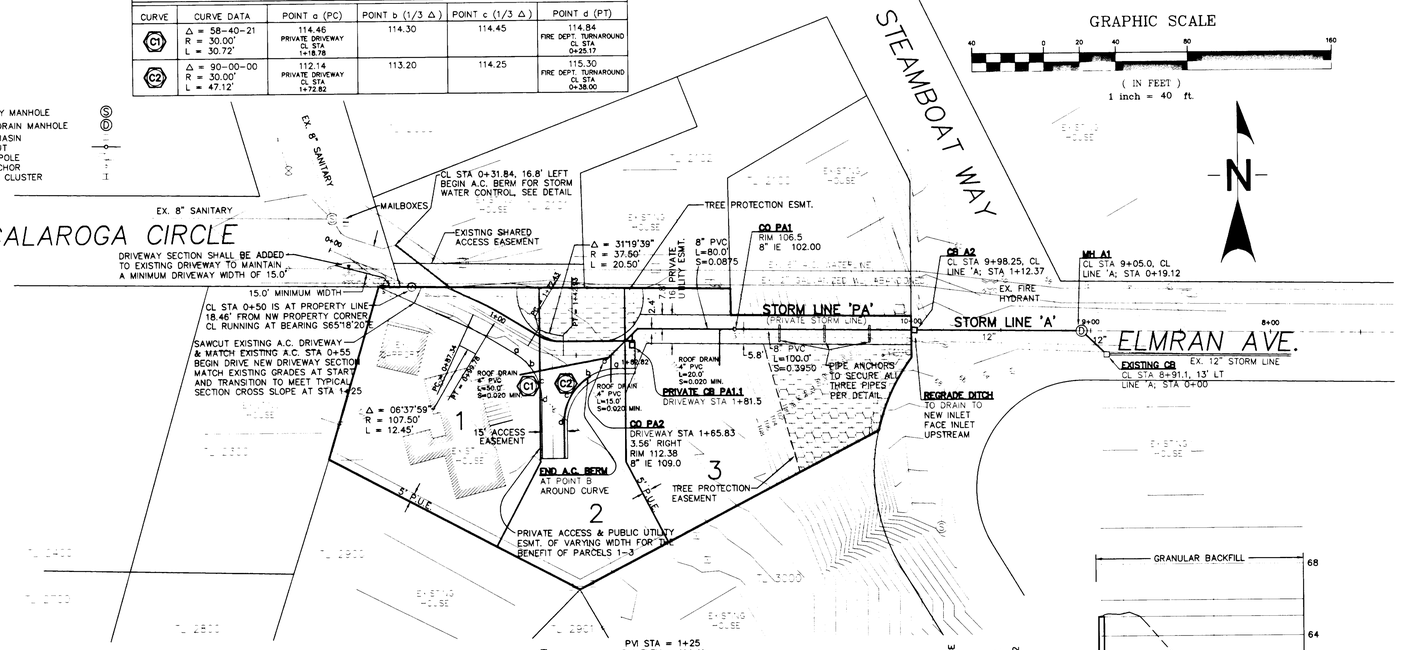
98-2555 DWG

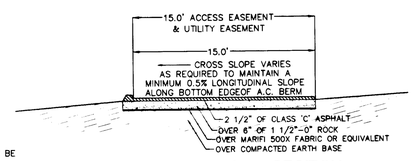
DATE	MAY 1999
SCALE	1"=40'
DRAWN	JEE
JOB	98-25
SHEET	1
OF 3	SHEETS

CURB RETURN DATA

ALL ELEVATIONS ARE TOP OF A.C.

CURVE	CURVE DATA	POINT a (PC)	POINT b (1/3 Δ)	POINT c (1/3 Δ)	POINT d (PT)
C1	Δ = 58-40-21 R = 30.00' L = 30.72'	114.46 PRIVATE DRIVEWAY CL STA 1+18.78	114.30	114.45	114.84 FIRE DEPT. TURNAROUND CL STA 0+25.17
C2	Δ = 90-00-00 R = 30.00' L = 47.12'	112.14 PRIVATE DRIVEWAY CL STA 1+72.82	113.20	114.25	115.30 FIRE DEPT. TURNAROUND CL STA 0+38.00

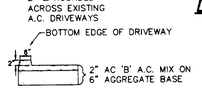




NOTE:
BERM HEIGHT TO BE 2" & ROUNDED ACROSS EXISTING A.C. DRIVEWAYS

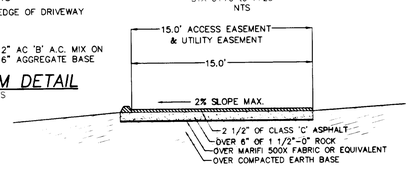
DRIVEWAY TYPICAL SECTION

STA 0+70 to 1+25
NTS



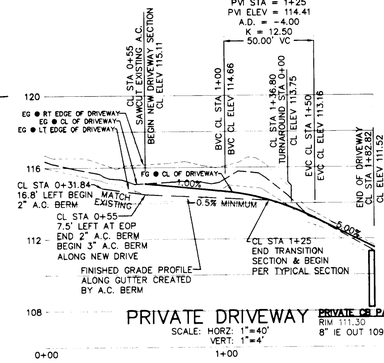
A.C. BERM DETAIL

NTS



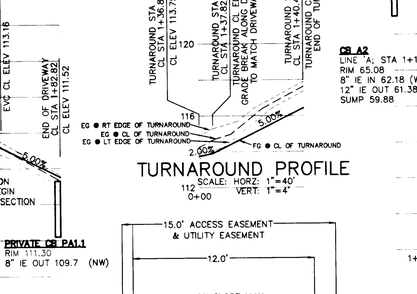
DRIVEWAY TYPICAL SECTION

STA 1+25 to 1+82.82
NTS



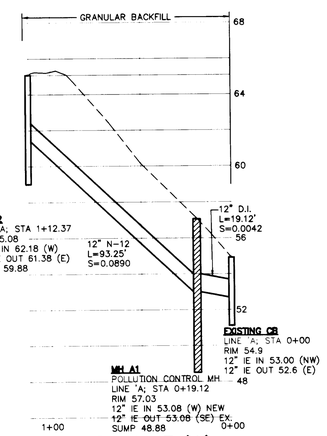
PRIVATE DRIVEWAY

SCALE: HORZ: 1"=40'
VERT: 1"=4'



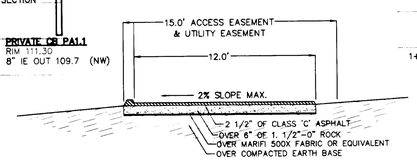
TURNAROUND PROFILE

SCALE: HORZ: 1"=40'
VERT: 1"=4'



STORM LINE 'A'

PUBLIC STORM LINE IN ELMRAN AVE.
SCALE: HORZ: 1"=40'
VERT: 1"=4'



TURNAROUND TYPICAL SECTION

STA 0+38 to 0+58
NTS

STEEL-PLATE CATCHBASINS SHALL NOT BE LESS THAN 10 GAUGE WITH WELDED SEAMS WITH SLEEVES ATTACHED FOR CONNECTING THE STORM DRAIN LINES.

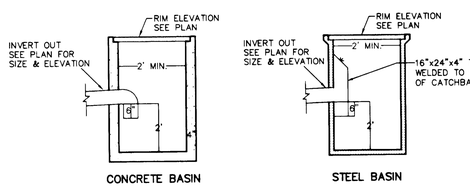
CATCHBASINS MADE OF CAST IRON SHALL HAVE A WALL THICKNESS OF NOT LESS THAN 1/4" WITH SLEEVES ATTACHED FOR CONNECTING THE STORM DRAIN LINES.

STEEL CATCHBASINS SHALL BE ASPHALT COATED INSIDE & OUT.

CONCRETE CATCHBASINS SHALL HAVE A WALL THICKNESS OF 4" & BE REINFORCED WITH #4 BARS @ 6" O.C.

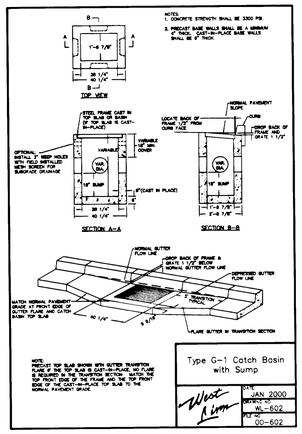
CATCHBASINS ARE TO BE PREFABRICATED OR POURED IN PLACE.

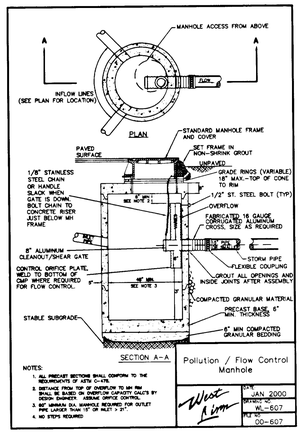
GRATE TO BE WELDED STEEL DROP IN GRATE (ASTM A36). END BARS 1/2"x2", CROSS BARS 1/2"x2" @ 2" O.C.; BIKE STRAPS 1/8"x1"; 16,000 lb> UNIFORM LOAD CAPACITY.

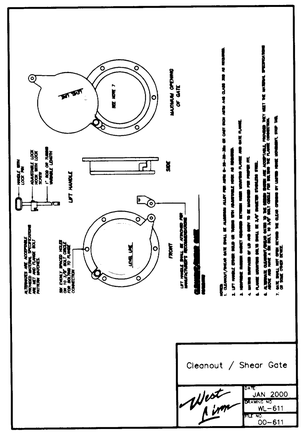


24" x 24" PRIVATE CATCHBASIN DETAIL

N.T.S.







AS BUILTS

REGISTERED PROFESSIONAL ENGINEER
50,422
OREGON
JULY 21, 1998
JOSEPH E. EGNER
7/11/00

REVISIONS	BY
REVISE PER 1st REVIEW SHOW DRIVEWAY WIDTH ON C.C. MOUNTY CURB	RS 7/9/99
REVISE PER 2nd REVIEW EXT. CURB TO POINT b SHIFT WITH 18" SUMP BTL	JEE 7/23/99
REVISE PER 3rd REVIEW 25 MAX TURNAROUND UPDATED DETAILS	JEE 3/19/00
AS-BUILT 06/15/2000	LD

CALAROGA CIRCLE PARTITION

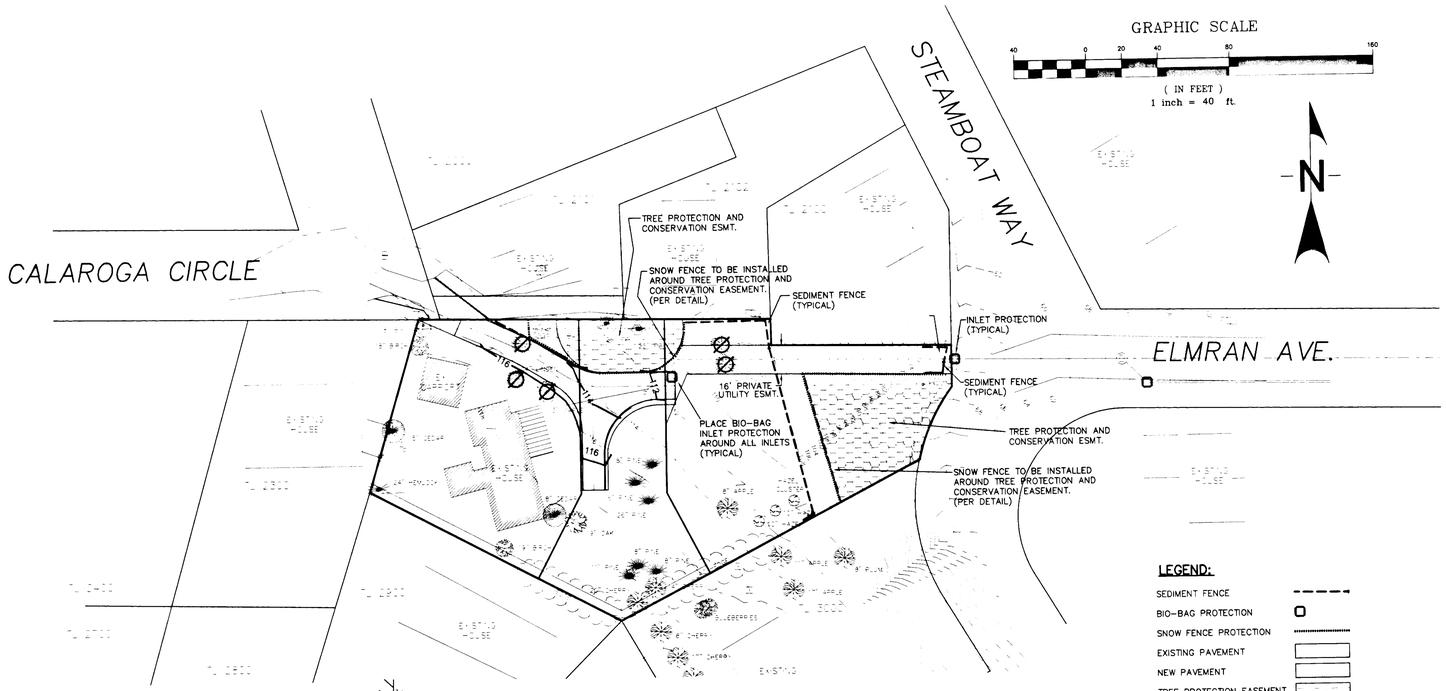
IAN BURNS

Street & Storm Drain Plan

SISUL ENGINEERING
375 PORTLAND AVENUE
GLADSTONE, OREGON 97027
(503) 657-0188

DATE	MAY 1999
SCALE	1"=40'
DRAWN	JEE
JOB	98-25
SHEET	2
OF 3	SHEETS

AS BUILTS



LEGEND:

- SEDIMENT FENCE
- BIO-BAG PROTECTION
- SNOW FENCE PROTECTION
- EXISTING PAVEMENT
- NEW PAVEMENT
- TREE PROTECTION EASEMENT
- EASEMENT LINE
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISITNG WATER METER
- NEW FIRE HYDRANT
- NEW WATER SERVICE
- SANITARY MANHOLE
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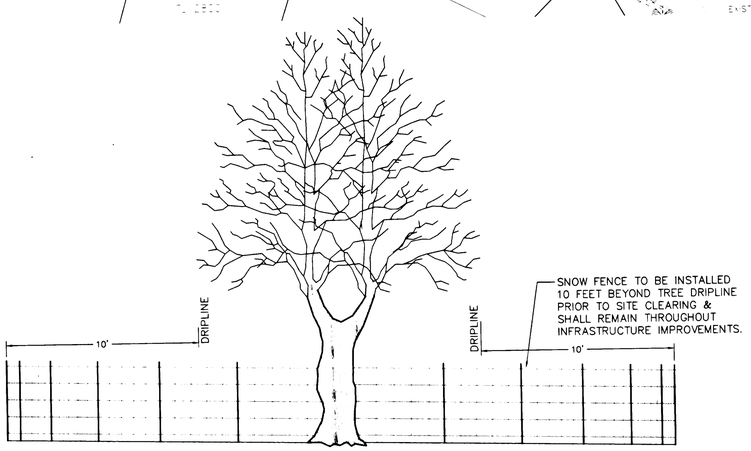
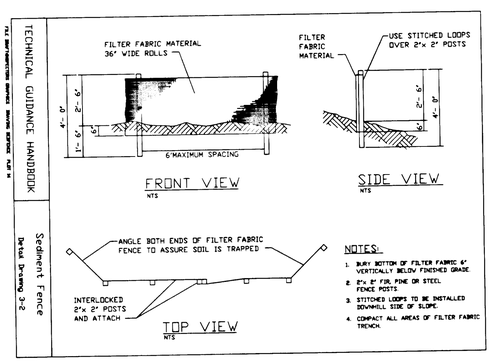
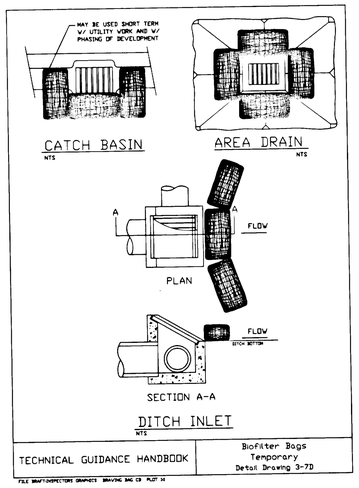


SNOW FENCE DETAIL

N.T.S.





REGISTERED PROFESSIONAL ENGINEER 50,423 OREGON July 21, 1998 JOSEPH E. EGNER
7/11/00

REVISIONS	BY
REVISE PER CITY REVIEW MODIFY LEGEND & SHOW TREES TO BE REMOVED	PS 7/9/99
AS-BUILT 06/15/2000	LD

CALAROGA CIRCLE PARTITION

IAN BURNS

Grading, Erosion Control and Tree Protection Plan

SISUL ENGINEERING
375 PORTLAND AVENUE
GLADSTONE, OREGON 97027
(503) 657-0188

DATE	MAY 1999
SCALE	1"=40'
DRAWN	JEE
JOB	98-25
SHEET	3
OF	3 SHEETS