

AS BUILT

REVISIONS	BY
CHANGE SUB AND STREET NAMES	JH
AS BUILT	EE
10/2/1994	

LESLIES LANDING
LESLIE MARSH

WATERLINE PLAN

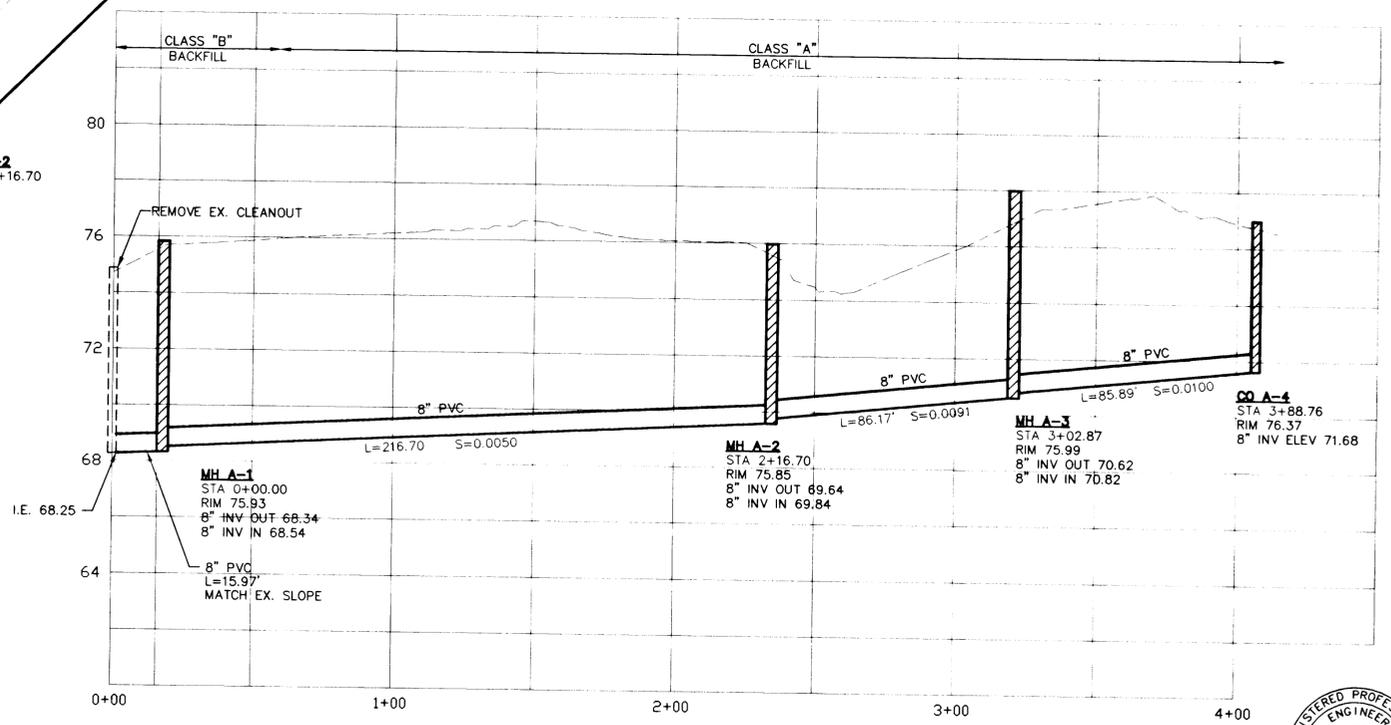
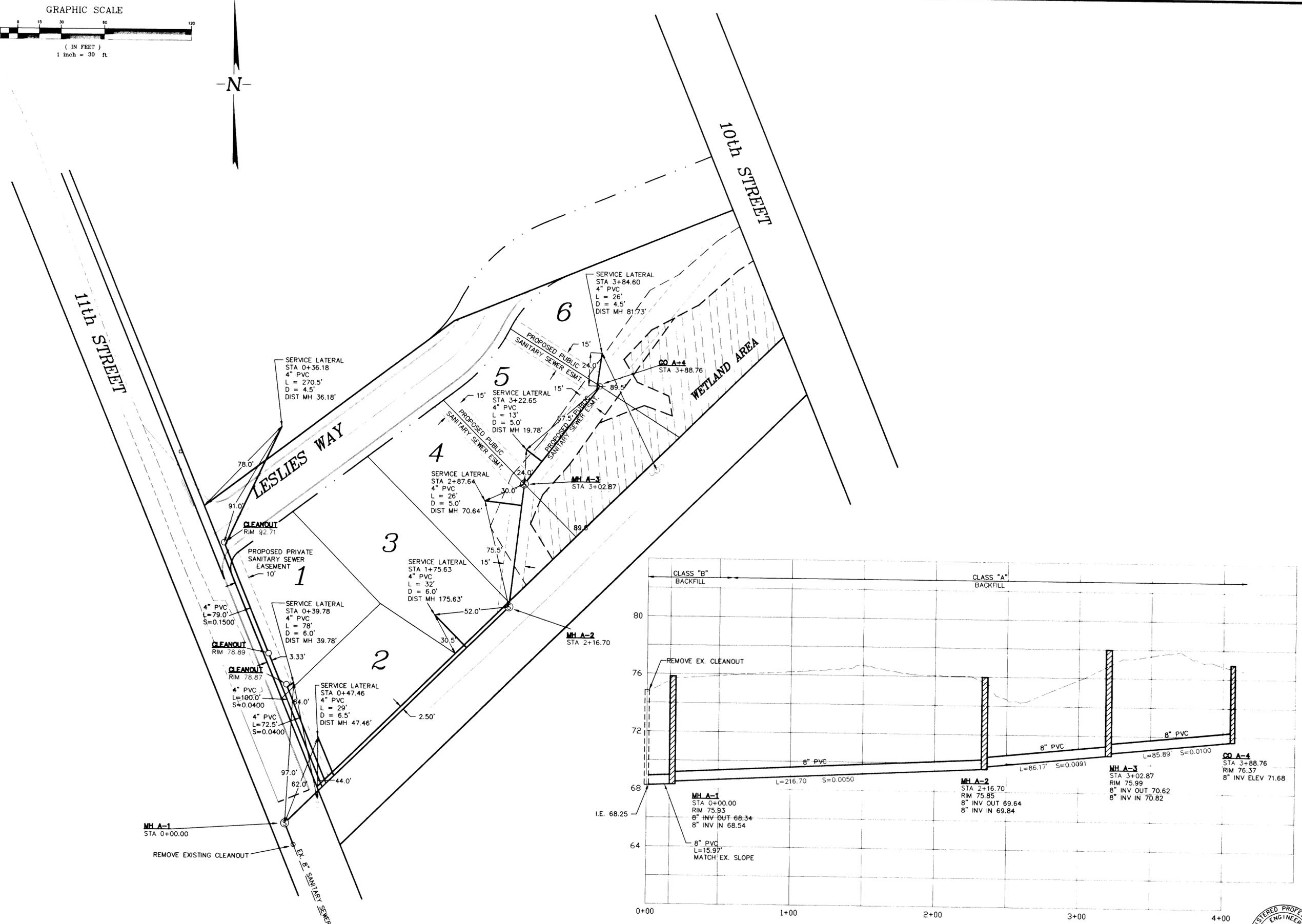
SISUL ENGINEERING
376 PORTLAND AVENUE
GLADSTONE, OREGON 97027
(503) 667-0188

DATE	FEB. 1994
SCALE	NOTED
DRAWN	JH
JOB	93-52
SHEET	1
OF 6 SHEETS	

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.



SANITARY SEWER
SCALE: HORT 1"=30'
VERT 1"=3'

AS BUILT



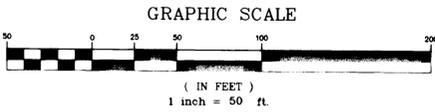
REVISIONS	BY
CHANGE SUB AND STREET NAMES	JH
REVISED PER CITY	JH
RELOCATED SAN SEWER	JH
AS BUILT	JEE
10/21/94	JEE

LESLIES LANDING
LESLE MARSH

SANITARY SEWER PLAN
AND PROFILE

SISUL ENGINEERING
3775 PORTLAND AVENUE
CLATSOP, OREGON 97027
(503) 867-0188

DATE	FEB. 1994
SCALE	NOTED
DRAWN	JH
JOB	93-52
SHEET	2
OF 6 SHEETS	



CURB RETURN DATA:

DATA	DATA	a TC (CR)	b TC (1/3)	c TC (2/3)	d TC (CR)	NOTES:
①	$\Delta = 75^{\circ}08'40''$ $R = 20.00'$ $L = 26.23'$	101.29*	98.87*	95.97	94.43	* TO BE CONSTRUCTED IN THE FUTURE CL STA 0+29.91 (LT) END CURB - T.C. ELEV = 96.71
②	$\Delta = 45^{\circ}34'23''$ $R = 20.00'$ $L = 15.91'$	89.37	90.94	92.15	93.06	

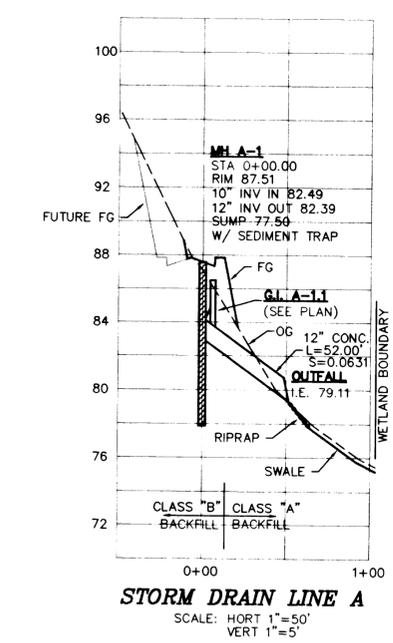
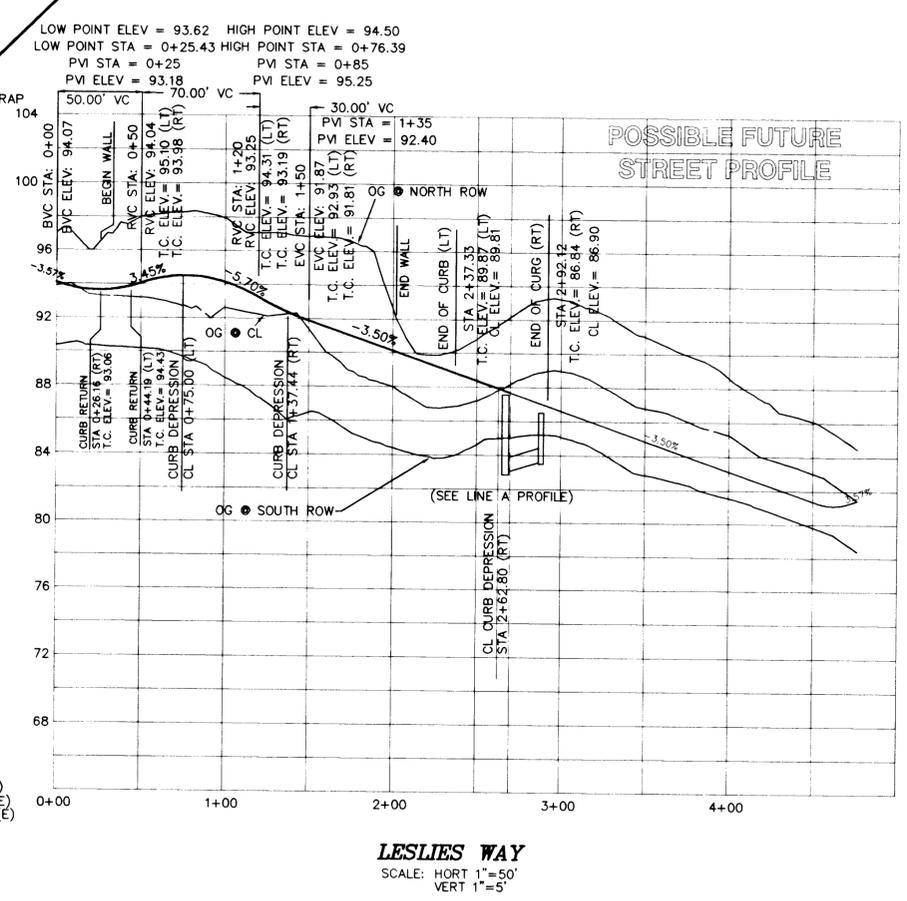
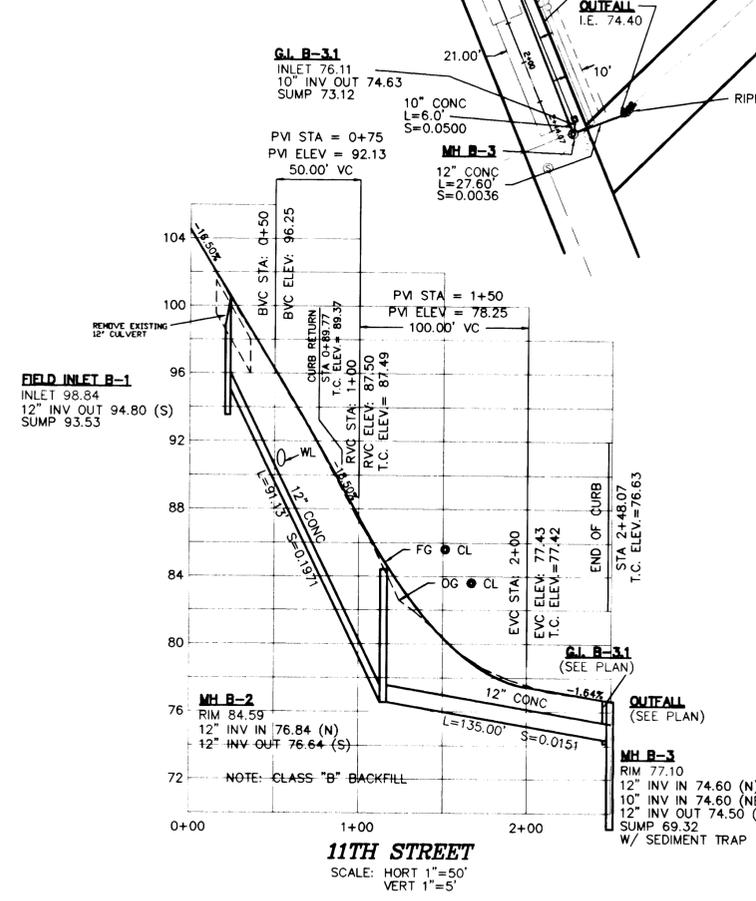
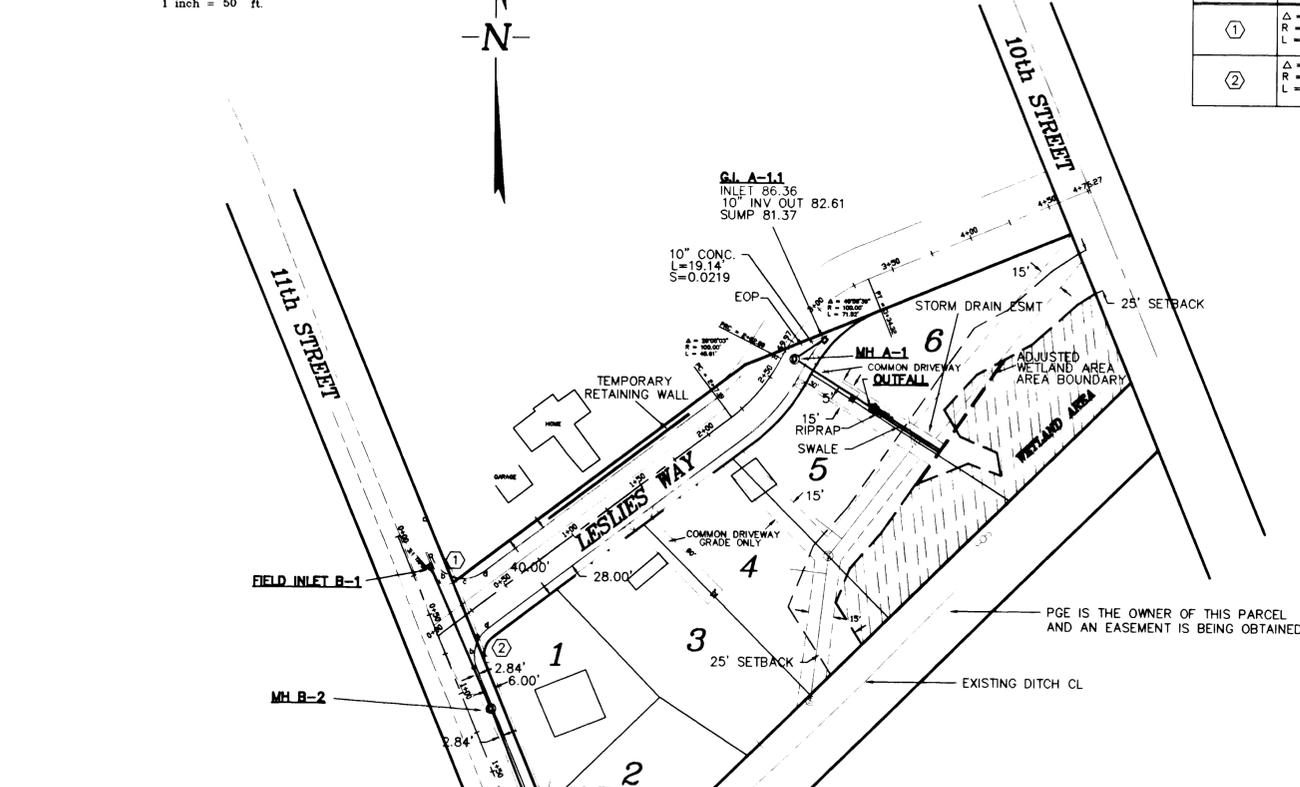
REVISIONS	BY
CHANGED SUB AND STREET NAMES	
REVISED PER CITY REVIEW	JH
REVISED STREET PROFILE	JH
AS BUILT	JEE
10/21/94	

LESLIES LANDING
LESLE MARSH

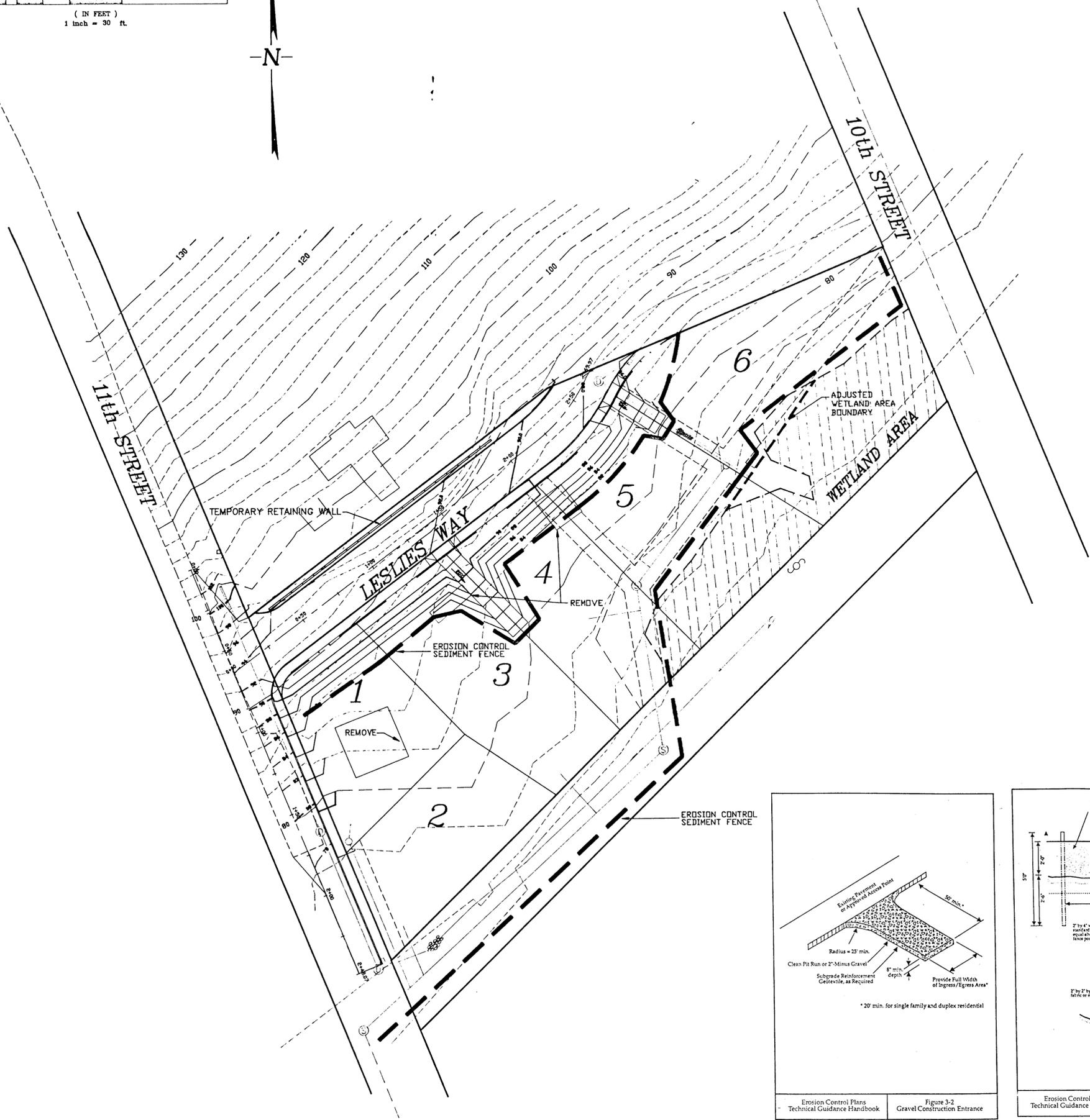
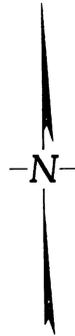
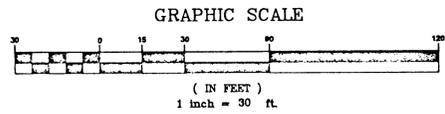
STREET AND STORM DRAIN
PLAN AND PROFILE

SISUL ENGINEERING
5715 PORTLAND AVENUE
CLATSOP COUNTY OREGON 97127
(503) 857-0188

DATE	FEB. 1994
SCALE	NOTED
DRAWN	JH
JOB	93-52
SHEET	3
OF 6 SHEETS	



AS BUILT



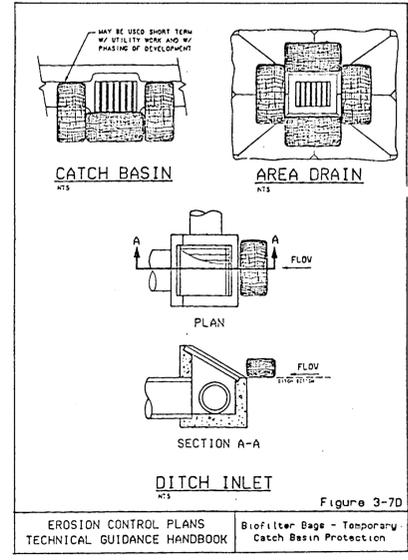
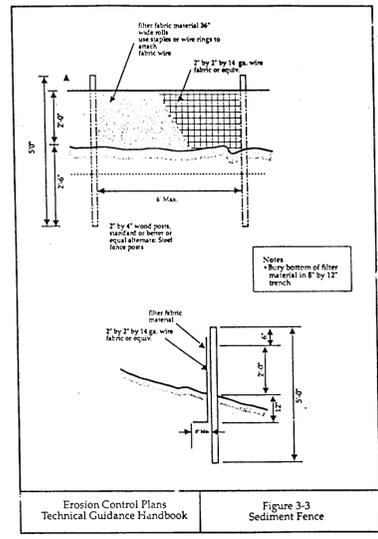
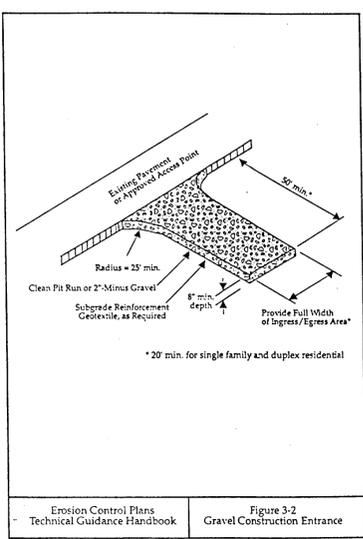
- Sediment Fence:**
1. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum 6 inch overlap, and both ends securely fastened to the post.
 2. The filter fabric fence shall be installed to follow the contours, where feasible. Then fence posts shall be spaced a maximum of six feet apart and driven securely into the ground a minimum of 30 inches.
 3. A trench shall be excavated, roughly 8 inches wide by 12 inches deep, upslope and adjacent to the wood post to allow the filter fabric to be buried.
 4. When standard strength filter fabric is used, a wire support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least one inch long, tie wire or hog rings. The wire shall extend into the trench a minimum of four inches and shall not extend more than 36 inches above the original ground surface.
 5. The standard strength filter fabric shall be stapled or wired to the fence, and 20 inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36" above the original ground surface. The fabric shall not be stapled to existing trees.
 6. When extra strength filter fabric and closer post spacing are used the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of the above standard note for standard strength filter fabric applying.
 7. Sediment fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.
 8. Sediment fences shall be inspected by applicant/contractor immediately after each rainfall, and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
- Note 9.17.93

- General Grading and Erosion Control:**
1. Clean waste material excavated from road cut or trenching areas not used in street fill areas may be spread evenly across lot areas in depths of less than one foot, except where noted otherwise on the plans.
 2. During construction, hay bales, cutoff trenches or some other method of runoff control shall be used to prevent erosion and/or siltation from crossing outside the work area boundaries.
 3. Large organic material, miscellaneous pipe or construction material must be removed from the site and disposed of properly.
- Note 2.18.93

- General:**
1. Approval of this erosion control (ESC) plan does not constitute an approval of permanent road or drainage design (e.g. size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).
 2. The implementation of these ESC plans and the construction, maintenance, replacement, and upgrading of these ESC facilities is the responsibility of the applicant/contractor until all construction is completed and approved, and vegetation of landscaping is established.
 3. The ESC facilities on this plan must be constructed in conjunction with all clearing and grading activities, and in such a manner as to ensure that sediment laden water does not enter the drainage system or violate applicable water standards.
 4. The ESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these ESC facilities shall be upgraded as needed for unexpected storm events and to ensure that sediment laden water does not leave the site.
 5. The ESC facilities shall be inspected daily by the applicant/contractor and maintained as necessary to ensure their continued functioning.
 6. The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month, or within 48 hours following a storm event.
 7. At no time shall more than one foot of sediment be allowed to accumulate within a trapped catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.
 8. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures may be required to ensure that all paved areas are kept clean for the duration of the project.

- Erosion Control:**
- Summary:**
1. The intent of the requirement is to prevent siltation from reaching storm drain systems and drainage ways.
 2. The minimum measures need to be made on all projects.
 - a) A gravel pad, at least 50 feet long, is required where vehicles will leave the construction site.
 - b) A sediment barrier is to be constructed of straw bales or a sediment fence where noted in the details or where sediment will cross outside the work area.
 - c) Where excavated material is placed on hard surfaces (such as streets) material must be broomed or scrapped clean as soon as possible.
 - d) Riprap exits from all culverts and storm drain pipes draining into the ditches or swales. Riprap is to be Class 50 riprap or larger or as noted elsewhere in the plans.
 - e) Reseed or cover disturbed areas as soon as is possible and practical but no later than the completion of construction on the other phases of work. Erosion control measures such as hay bales and silt fences must remain in place until seeded areas show growth substantial to prevent erosion.

- Seeding/Mulching:**
1. All areas disturbed during construction to be graded to drain and compacted to a minimum of 90% of AASHTO T-99 immediately after installation of utilities or grading.
 2. Recommended Seed Mixture: 80% ELKA Dwarf Perennial Ryegrass and 20% Creeping Red Fescue, by weight. Application Rate shall be 100 pounds minimum per acre.
 3. Fertilizer shall be 12-16-8 with 50% of the nitrogen derived from UREA FORMALDEHYDE, and applied at a rate of 400 pounds per acre.
 4. Seed and mulch at a rate of 2000 lbs/Ac with heavy bonding agent or netting and anchors. Mulch shall be a wood cellulose fiber or other material suitable for hydromulching.
 5. Temporary or Permanent Hydroseeding or acceptable seeding and mulching must be provided whenever perennial cover cannot be established on sites which will be exposed for 60 days or more.



AS BUILT



REVISIONS	BY
CHANGED SUB. AND STREET NAMES	JH 6/2/94

LESLIES LANDING
LESLIE MARSH
GRADING AND EROSION CONTROL

SISUL ENGINEERING
 375 PORTLAND AVENUE
 CLATSOP, OREGON 97087
 (503) 657-0189

DATE	FEB. 1994
SCALE	NOTED
DRAWN	JH
JOB	93-52
SHEET	4
OF 6 SHEETS	

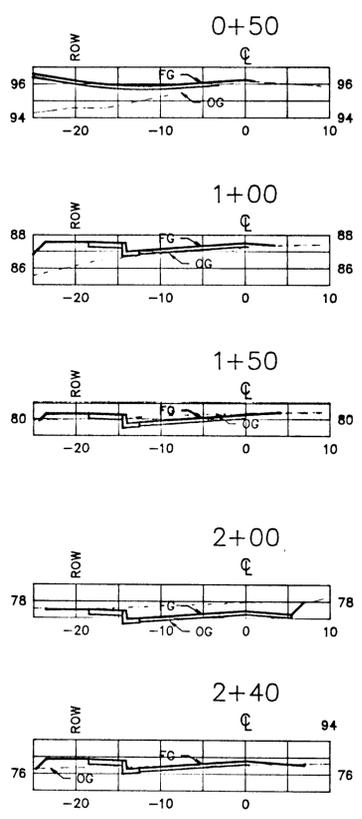
REVISIONS	BY
CHANGED SUB. AND STREET NAMES.	JH
	6/9/94

LESLIES LANDING
LESLIE MARSH

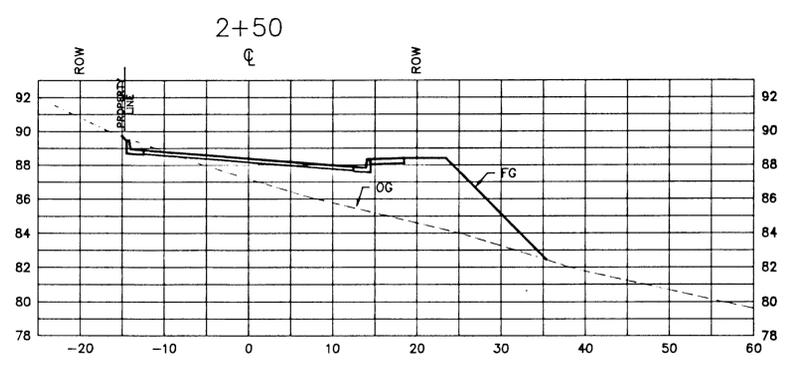
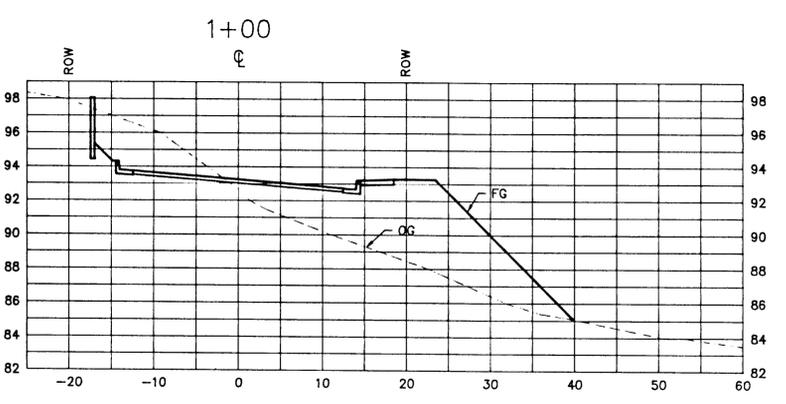
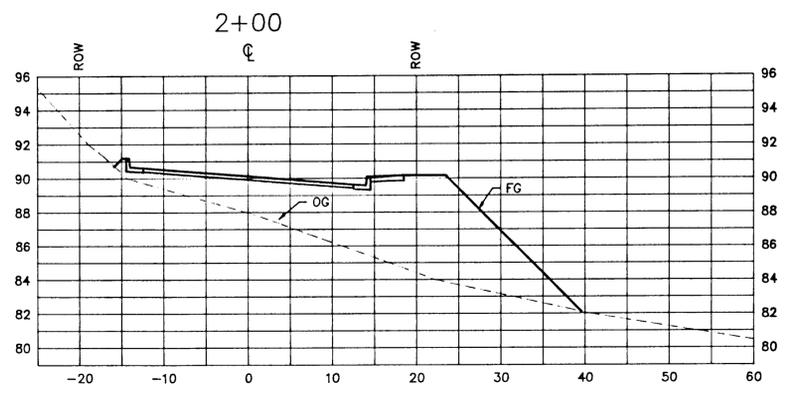
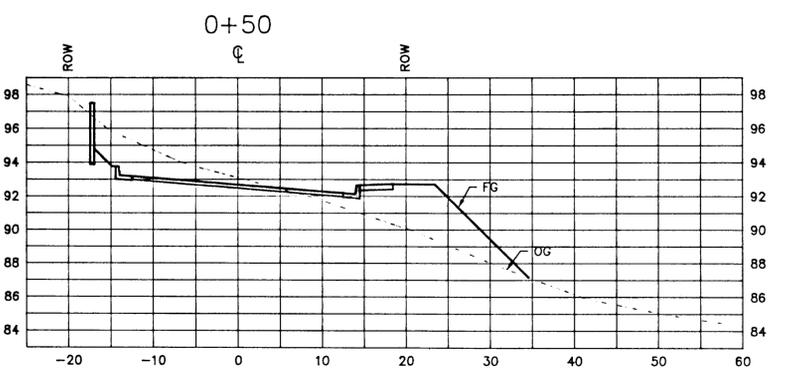
CROSS SECTIONS

SISUL ENGINEERING
 375 PORTLAND AVENUE
 CLATSOP, OREGON 97107
 (503) 657-0186

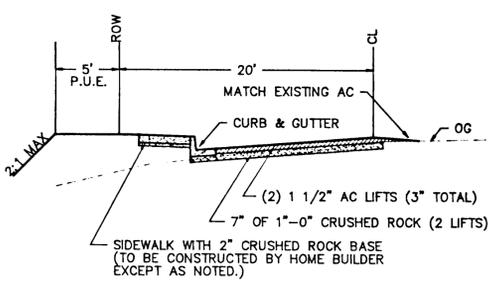
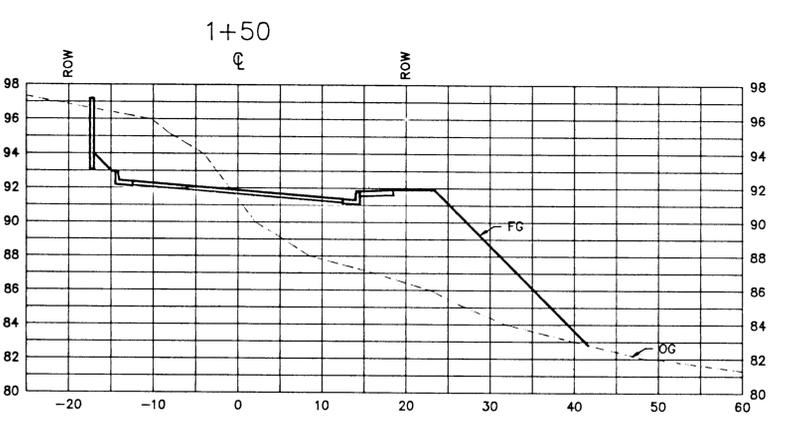
DATE	FEB. 1994
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SHEET	5
OF 6 SHEETS	



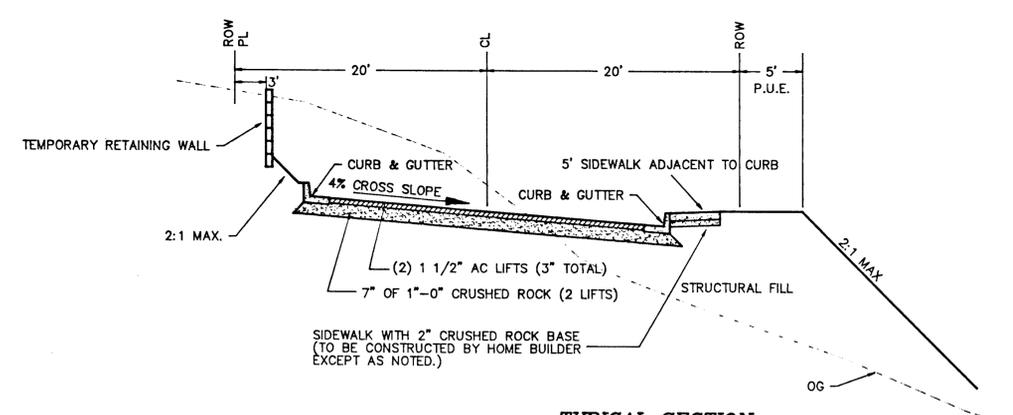
11th STREET
 SCALE: HORT 1"=10'
 VERT 1"=5'



LESLIES WAY
 SCALE: HORT 1"=10'
 VERT 1"=5'



TYPICAL SECTION
 11th STREET
 NTS



TYPICAL SECTION
 LESLIES WAY
 NTS

- Construction Staking Notes:**
- The Developer has contracted with Engineer to provide construction staking as outlined below. The contractor is to give the Engineer/Surveyor at least a week notice of when the first construction staking will be needed. After the initial staking on the project, requests for staking should be given at least 3 working days (72 hours) in advance of when staking is desired. When called to the site for staking the Engineer's surveyor will stake each phase of the project in a manner that is most efficient for the surveyor. Additional staking requested by the contractor or restaking required due to the contractor's carelessness will be charged to the contractor. In addition, if survey control monuments (which will be plainly identified) are destroyed by the contractor, the contractor will be charged for the re-establishment of the monuments. Staking to be provided is as follows:
- Sanitary sewer cut stakes at the following stations, 10', 25', 50', 100', and every 100' thereafter, following each manhole.
 - Storm drain cut stakes at the following stations, 10', 25', 50', 100', and every 100' thereafter, following each manhole or catch basin.
 - Rough grade stakes for street coring set on centerline at 50 foot stations. Extra stakes will be provided in cul-de-sacs and street knuckles.
 - Set temporary front corners at water service locations and stake waterline angle points and fire hydrant locations (after street coring).
 - Set curb stakes at 50 foot stations on the tangent and 25 foot stations in the curves.
 - Mark property line locations on curbs for private utilities.
 - Once the Contractor has installed the water services (and prior to rocking and paving the street) he is to notify the Engineer that such has been done so that the Engineer's Surveyor can verify that the water services/meters are in the correct location.
- Associated Land Surveyors 2-18-93

AS BUILT

