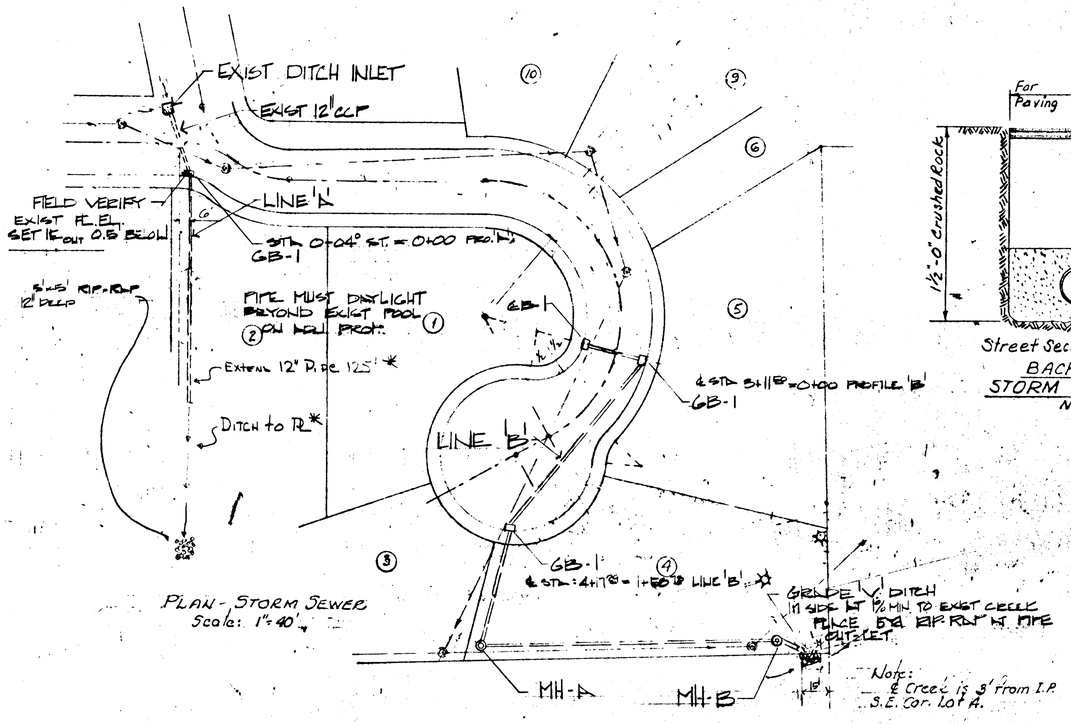
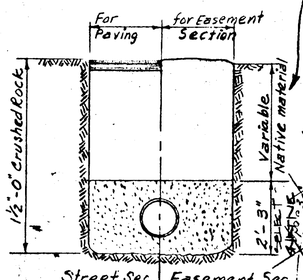
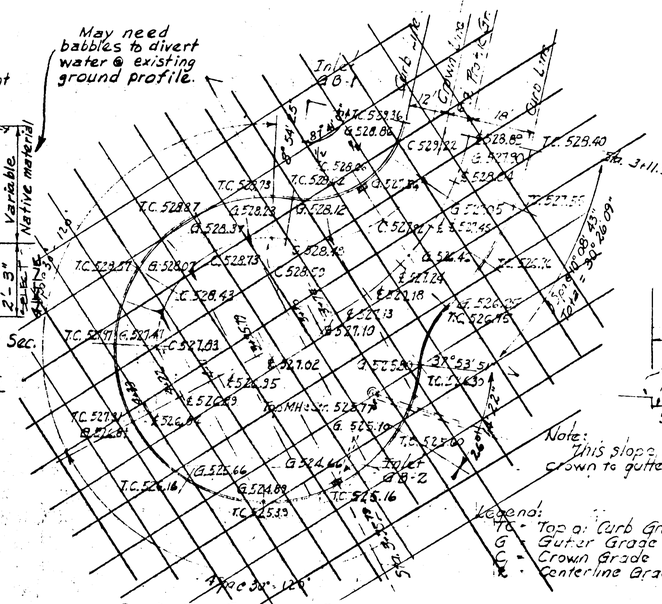
REVISED 1-28-82

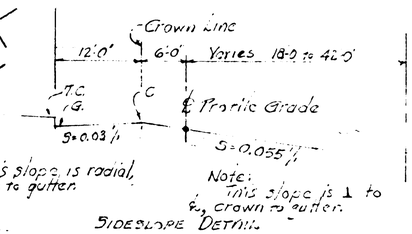




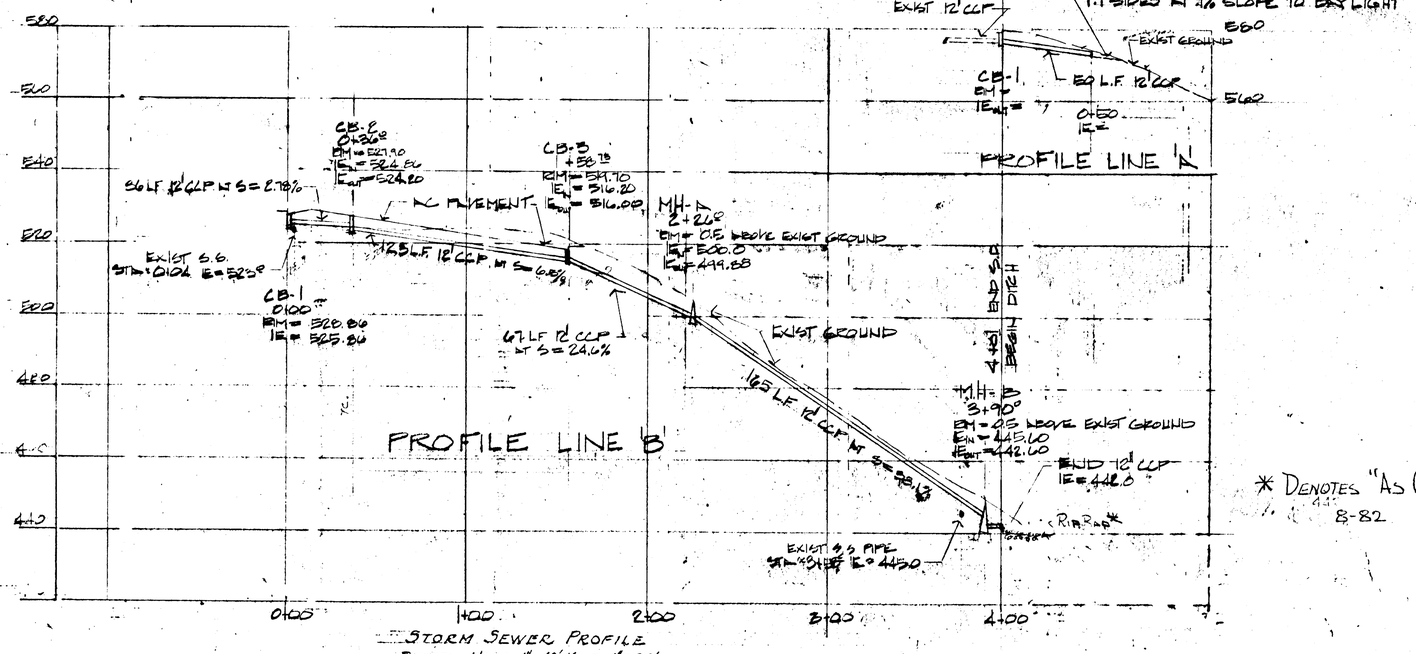
BACK FILL STORM DRAINAGE
N.T.S.

May need babbles to divert water @ existing ground profile.





Legend:
TC - Top of Curb Grade
G - Gutter Grade
CG - Crown Grade
℄ - Centerline Grade



* Denotes "As Constructed"

8-82

Material Specks:

Concrete;
All concrete shall be 3300 psi @ 28 days. Reinforcing Steel shall be A.S.T.M. A-15-52 T, deformed bars.

Sanitary Sewer;
All sanitary sewer pipe shall be Extra Strength, complete with [illegible]. Pipe shall be A.S.T.M. Specs C-14-67 Extra St. Joint shall be A.S.T.M. C-425 & all sanitary sewers shall be air tested. Details shall conform with Sheet 4 & 5 Dwg Nos. 78-48-4 & 5.

Storm Sewer;
All storm sewer pipe shall conform to A.S.T.M. Specs C-76, Reinf. Concr. Culvert Pipe Class III. Details shall conform with Sheet 4 & 5 Dwg Nos. 78-48-4 & 5

Water Work;
All water pipe shall be Class 52, Ductile Iron, Cement Mortar Lined with push on type rubber gaskets, A.S.A. - A 21.6, A.S.A. 21.11 and A.S.A. 21.4.
All cast iron fittings shall conform to A.S.A. 21.10, A.S.A. 21.11 & A.W.W.A. B16.1.
Gate Valves shall be M.J. and/or Flgd. as required. They shall be iron body, bronze mounted, double disc, parallel seat, N.R.S. conforming to A.W.W.A. Specs. C-500.
Valve Boxes shall be C.I., 2 piece, sliding type, 5¼" Short Barrel, Type.
Flange Adapters shall be Smith Blair No. 912 or equal.
All water works shall be pressure and leakage tested and disinfected as req'd.
use Ford type Compression fittings - with Type "K" soft copper.

Other Items;
Curbs, Curb Inlets, Sidewalks, Wheel Chair Ramps and other items shall conform to City of West Linn standards detailed on Sheet 4 & 5 Dwg No. 78-48-4 & 5.

All "major" Earthwork will require testing by professional soils Engineer firm results of all tests to be forwarded to the city.

If existing backfill over existing sanitary does not in the design Engineer's & City Engineer's openion meet proper compaction & stability requirements the City reserves the right to require what ever action is needed to prevent "under the pavement" settlement from occuring.

City reserves the right to initiate any necessary changes caused by adverse field conditions.

REVISION	DATE	DESCRIPTION	BY
3	1/20/82	REDESIGN G.D. SYSTEM	DDI
2	5/11/79	Revised to City requirements	amj
1	4/3/79	Revise to City Requirements	W.J.D

GERALD W. PIKLEY

JOB No.	78-48
DESIGNED BY	W.J.D.
TRACED BY	
CHECKED BY	
DATE	4/3/79
APPROVED BY	W.J. Dorner

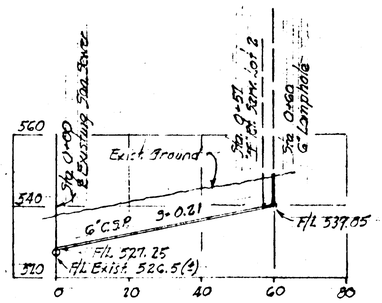
PLAT OF WOODHAVEN VIEWS
CONSTRUCTION DRAWINGS
STORM DRAWING & CUL DE SAC DETAILS

SCALE: As Shown | SHEET 2 OF 6 | DRAWING NUMBER 78-48-

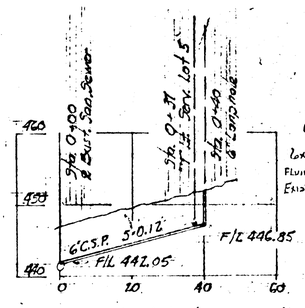
DORNER & TUNKS, INC.
CONSULTING ENGINEERS
PORTLAND OREGON

REGISTERED PROFESSIONAL ENGINEER OREGON

ELMAN STATIONERY & PRINTING CO., PORTLAND, OREGON



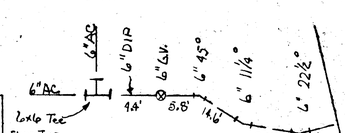
PROFILE - LATERAL TO LOT 2 (THRU LOT 3)

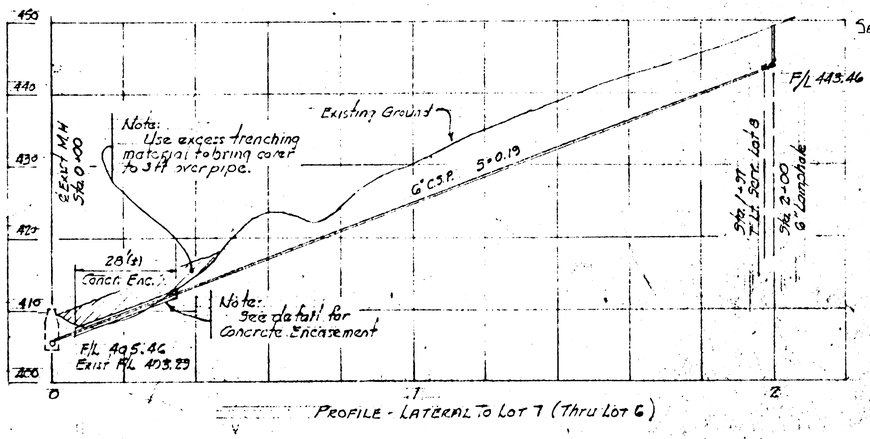


PROFILE - LATERAL TO LOT 5 (THRU LOT 4)

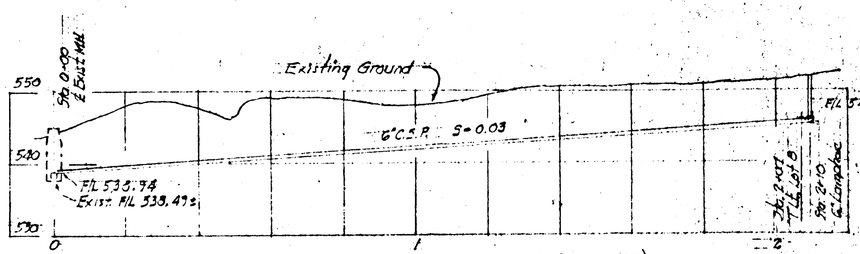
Note: Service connections for Lots No. 1, 2, 3, 4, 5, 6, 9 & 10 to existing mains shall be made with Fowler Tapping Sleeves, 8" x 6" and 6" x 45° Bends.

* As Constructed

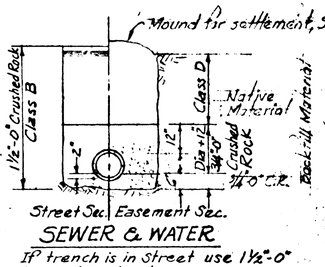




PROFILE - LATERAL TO LOT 7 (THRU LOT 6)

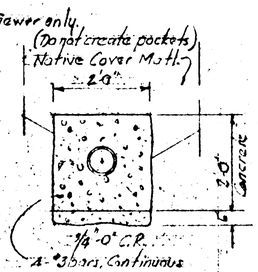


PROFILE - LATERAL TO LOT 8 (THRU LOT 9)



SEWER & WATER

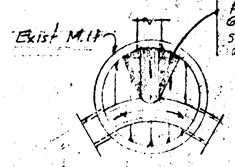
If trench is in Street use 1½"-0" Crushed Rock above pipe zone.



TRENCHING, BACKFILLING & ENCASEMENT DETAILS

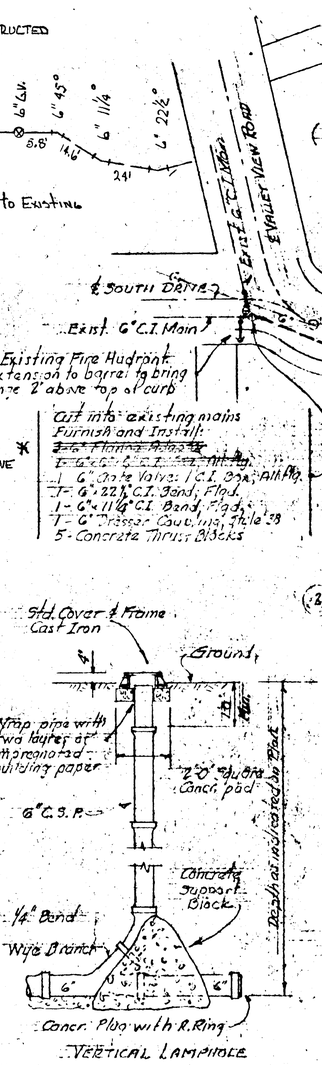
No Scale

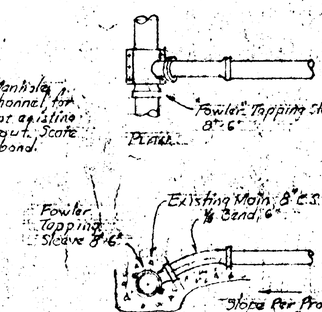
See also sheet 4 of 5.



REVISED MH BOTTOMS

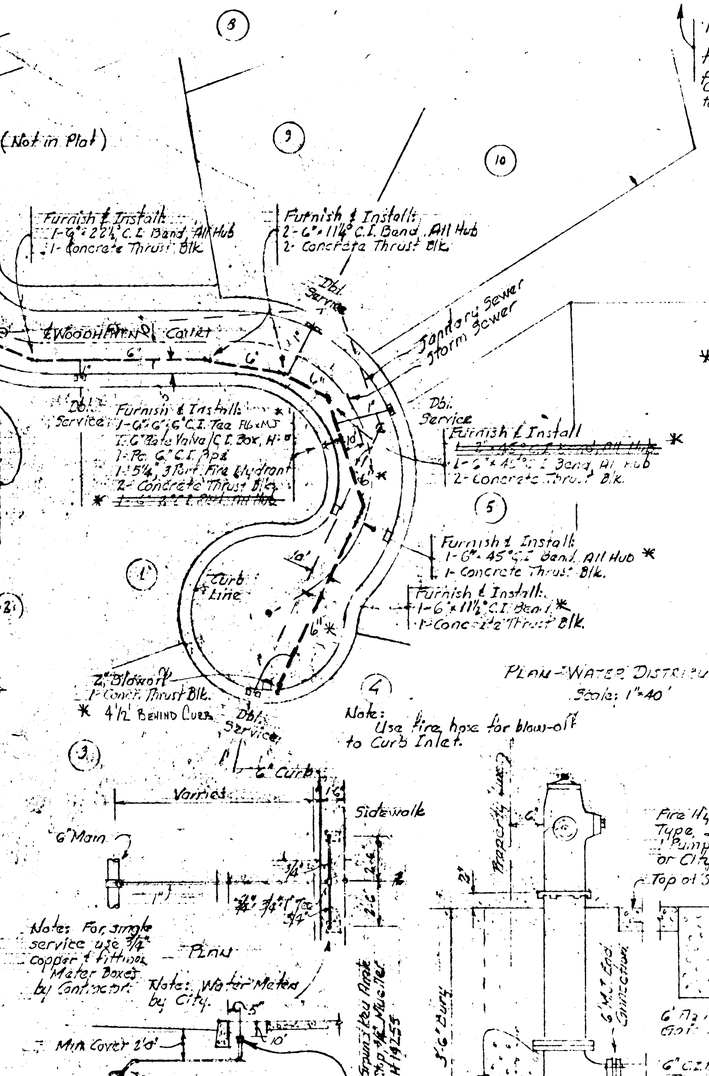
No Scale





ELEVATION

DETAIL - TAP INTO MAIN SANITARY SEWER



REVISION	DATE	DESCRIPTION	BY
2	5/11/79	Revised to City Requirements	GWP
1	4/3/79	Revised to City Requirements	W.J.D.

GERALD W. PIKLER

REGISTERED PROFESSIONAL ENGINEER OREGON No. 5167

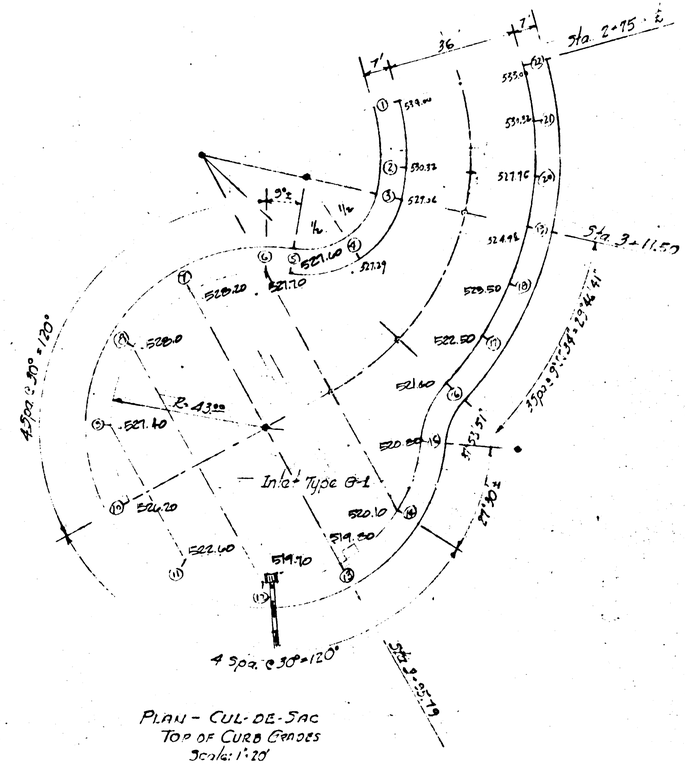
JOB No.	78-48
DESIGNED BY	W.J.D.
TRACED BY	
CHECKED BY	
DATE	1/30/79
APPROVED BY	
SCALE	As Shown
SHEET	3 OF 6

PLAT OF WOODHAVEN VIEWS
CONSTRUCTION DRAWINGS
SANITARY SEWER PROFILES & DETAILS
DOMESTIC WATER PLAN & DETAILS

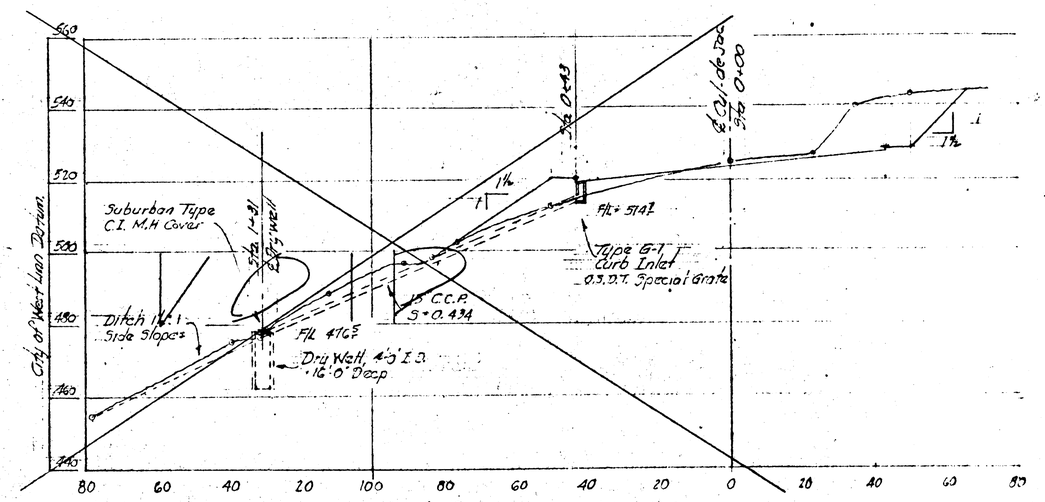
DORNER & TUNKS, INC.
CONSULTING ENGINEERS
PORTLAND OREGON

DRAWING NUMBER 78-48.3

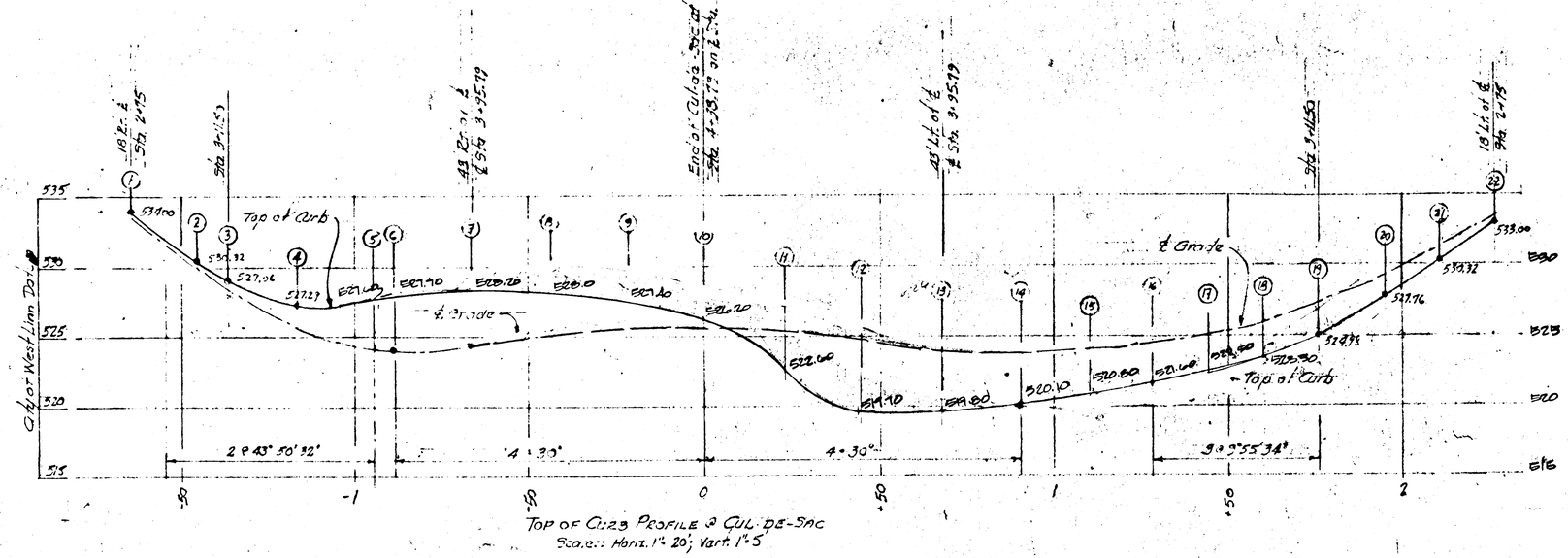
BILLHAM STATIONERY & PRINTING CO., PORTLAND, OREGON



PLAN - CUL-DE-SAC
TOP OF CURB GRADES
Scale: 1"=20'



PROFILE STORM DRAIN BETWEEN LOTS 4 & 5
Scales: Horiz. 1" = 20'; Vert. 1" = 2'



TOP OF CURB PROFILE @ CUL-DE-SAC
Scales: Horiz. 1" = 20'; Vert. 1" = 5'

Material Specs:
Concrete.
All concrete shall be "3000" - 28 days. Paint rough stone shall be A.S.T.M. A-16-52 T Reinforced Type

Sanitary Sewers.
All sanitary sewer pipe shall be Extra Strength complete with rubber ring seal. Pipe shall be A.S.T.M. Speck. C-14-47 Extra Strength Seal joint shall be A.S.T.M. C443-67. All sanitary sewers shall be in feet

Storm Sewers.
All storm sewer pipe shall conform to A.S.T.M. Speck. C76 Reinf. Concr. Culvert, Class III.

Water Works.
All water pipe shall be Class 52 Ductile Iron, cement mortar lined with push-on type rubber gaskets. (ASA - A21.6, ASA - A21.11 and ASA - 21.9).
All Cast Iron Fittings shall conform to ASA 21.10, ASA 21.11 and ASA B16.1.
Gate Valves shall be M.I. and for 4" and as req'd. They shall be iron body bronze mounted, double disc, parallel seat non-rising stem, O ring seals with 2" operating nut. They shall conform with AWWA Speck. C-500.
Valve Boxes shall be C.I. 2 piece sliding type, 5¼" shaft, Buffalo Type.
Flange Adaptors shall be Smith-Blair No. 912 or equal.
All water works shall be pressure and leakage tested as req'd. and sterilized as req'd.

Other Items.
Curb Inlets shall be O.S.D.T. Standard.
Dry Well shall be City of West Linn Std.
Handicap Ramps shall be City of West Linn Std.

REVISION	DATE	DESCRIPTION	BY
3.	1-28-72	CHANGE CURB GRADES & DRAINAGE	RDI

GERALD W. BARKLEY

JOB No.	78-48
DESIGNED BY	W.J.B.
TRACED BY	
CHECKED BY	
DATE	11/30/71
APPROVED BY	W. J. Borner

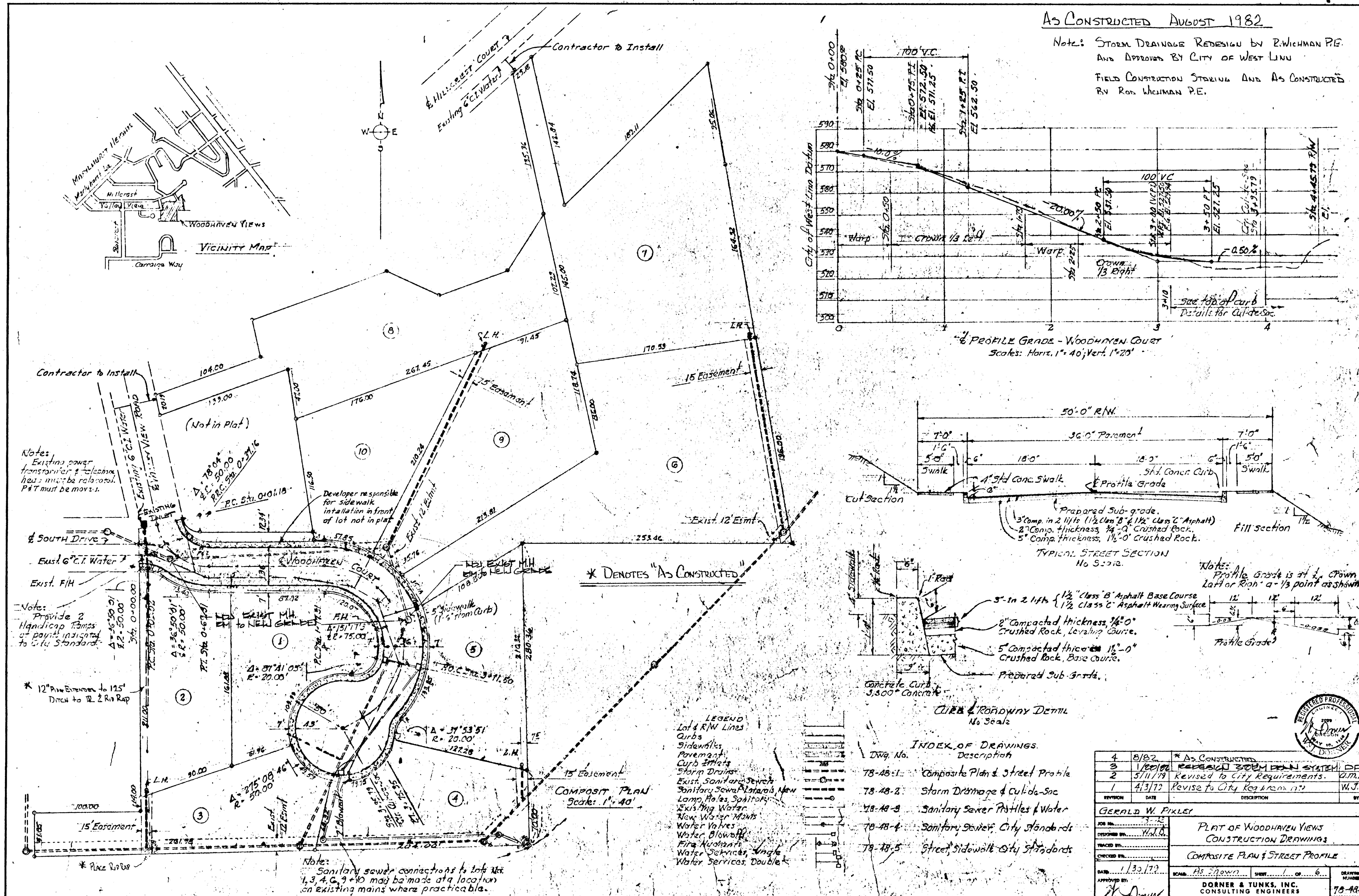
PLAT OF WOOD RIVER MEWS
CONSTRUCTION DRAWINGS
CUL-DE-SAC DETAILS & DRAINAGE

SCALE As Shown | SHEET 6 OF 6 | DRAWING NUMBER 78-48-6

REGISTERED PROFESSIONAL ENGINEER STATE OF OREGON JULY 10, 1956 W. J. BORNER

DORNER & TUNKS, INC.
CONSULTING ENGINEERS
PORTLAND OREGON

BILLMAN STATIONERY & PRINTING CO., PORTLAND, OREGON


As Constructed August 1982
Note: Storm Drainage Redesign by R. Wichman P.E. and Approved by City of West Linn
Field Construction Staking and As Constructed by Rod Wichman P.E.
Vicinity Map
Woodhaven Views
Marylhurst Heights
Marylhurst Ln.
Hillcrest
Valley View
Carriage Way
Contractor to Install
℄ Hillcrest Court
Existing 6" C.I. Water
Contractor to Install
(Not in Plat)
Note: Existing power transformer & telephone head must be relocated. P&T must be moved.
Existing Inlet
℄ South Drive
Exist. 6" C.I. Water
Exist. F/H
Note: Provide 2 Handicap Ramps at points indicated to City Standard.
* 12" Pipe Extended to 125' Ditch to R. 2 Rip Rap
* Place Rip Rap
15' Easement
Developer responsible for sidewalk intallation in front of lot not in plat
℄ Woodhaven Court
Adj. Exist. M.H. Rim to New Grade
5' Sidewalk (1'-6" from Curb)
Exist. 12' Esmt.
15' Easement
7.5' Easement
* Denotes "As Constructed"
Composit Plan
Scale: 1" = 40'
Note: Sanitary sewer connections to lots No. 1, 3, 4, 6, 9 + 10 may be made at a location on existing mains where practicable.
City of West Linn Datum
℄ Profile Grade - Woodhaven Court
Scales: Horiz. 1" = 40'; Vert. 1" = 20'
See top of curb Details for Cul-de-Sac.
50'-0" R/W.
36'-0" Pavement
Std. Conc. Curb
4" Std. Conc. S'walk
℄ Profile Grade
Cut Section
Fill Section
Prepared Sub-grade.
3" Comp. in 2 lifts (1½" Class "B" & 1½" Class "C" Asphalt)
2" Comp. thickness, ¾"-0" Crushed Rock.
5" Comp. thickness, 1½"-0" Crushed Rock.
Typical Street Section
No Scale.
3"-In 2 lifts { 1½" Class 'B' Asphalt Base Course / 1½" Class 'C' Asphalt Wearing Surface
2" Compacted thickness, ¾"-0" Crushed Rock, Leveling Course.
5" Compacted thickness 1½"-0" Crushed Rock, Base Course.
Prepared Sub-Grade.
Concrete Curb 3,300# Concrete
Curb & Roadway Detail
No Scale
Note: Profile Grade is at ℄ Crown Left or Right a - 1/3 point as shown.
Protile Grade
Legend
Lot & R/W Lines
Curbs
Sidewalks
Pavement
Curb Inlets
Storm Drains
Exist. Sanitary Sewers
Sanitary Sewer Laterals New
Lamp Holes, Sanitary
Existing Water
New Water Mains
Water Valves
Water Blowoffs
Fire Hydrants
Water Services, Single
Water Services, Double
Index of Drawings
Dwg. No. Description
78-48-1 Composite Plan & Street Profile
78-48-2 Storm Drainage & Cul-de-Sac
78-48-3 Sanitary Sewer Profiles & Water
78-48-4 Sanitary Sewer, City Standards
78-48-5 Street, Sidewalk City Standards
4 8/82 * As Constructed
3 1/20/82 Redesign Storm Drain System DPI
2 5/11/79 Revised to City Requirements. a.m.n.
1 4/3/79 Revise to City Requirements W.J.D.
Revision Date Description By
Gerald W. Pixley
Designed by W.J.D.
Plat of Woodhaven Views Construction Drawings
Composite Plan & Street Profile
Date 1/30/79
Scale As Shown
Sheet 1 of 6
Drawing Number 78-48-1
Dorner & Tunks, Inc. Consulting Engineers Portland, Oregon
Registered Professional Engineer W.J. Dorner Oregon
Hilman Stationery & Printing Co., Portland, Oregon