RIDGE VIEW ESTATES PHASE II + III

WEST LINN, OREGON

FINAL DECISION NOTICE

IN THE MATTER OF SUNSET SUMMIT, A 29-LOT SUBDIVISION AND PLANNED UNIT DEVELOPMENT, AND APPROVAL OF A MASTER PUD PLAN FOR AN ADDITIONAL 70 SINGLE-FAMILY HOMES IN 23 MULTI-FAMILY UNITS (FILE NOS. SUB-95-07/ZC-95-06/MISC-95-15).

The Planning Commission, at its regularly scheduled meeting of November 15, 1995, convened a public hearing pursuant to the provisions of Chapter 99 of the Community Development Code. The Commission considered the request by applicant Kent Ziegler, to develop a 29-lot subdivision and Planned Unit Development (PUD), and approval of a master PUD plan for an additional 70 single—family homes and 23 multi—family units on Assessor's Map 2 1E 35B, Tax Lot 1502 (part thereof, as well as Tax Lots 406, 1500, 1600, 1700 and the remainder of 1502, which will comprise the remainder of the master PUD. The parcel may be further described as being generally located in the southwest portion of the Bland Circle area. Public testimony, both oral and written, was heard as well as testimony from the applicant, and by West Linn Planning

Based upon the findings contained in the Staff Report and testimony provided by the staff and the applicant, West Linn Planning Commission voted unanimously to approve the application (File Nos. SUB-95-07/ZC-95-06/MISC-95-15) with the following conditions of approval:

- 1. The applicant's engineer shall receive approval from the City Engineering Department on the design of a storm detention facility.
- 2. The applicant shall dedicate to the City the open space area at the southwest
- The applicant shall construct a pathway through that open space area (condition 2), generally paralleling the drainage channel. The pathway shall be four feet wide and graveled. The Planning Director may allow deviations in width and surface type as site conditions require. Access to the pathway shall be via a standard 20-foot wide dedicated corridor with three-foot high, black vinyl chainlink fencing on both sides so as to delineate the access corridor and to provide some measure of security, not only for the users of the corridor, but also the owners and occupants of lot 15 and the multi-family area to the east.
- 4. The applicant shall establish a 20-foot wide tree conservation easement at the western edge of lots 6, 7, 8, 11, 12, and 13. The purpose of the tree conservation easement shall be to protect trees during construction and thereafter. Prior to any site disturbance and construction, the applicant shall provide snow fences around the drip line of the trees and tree clusters.
- 5. The lots that are identified on Exhibits D and E below 475 feet are serviceable at the present by the Bland Circle reservoir. Lots above the 475 feet must wait for the construction of Horton zone water line or alternate solutions identified by
- 6. As the applicable phases are platted, the applicant shall be required to replace buncrest court with another name since Suncrest is the name of a street in we: Linn already. The applicant shall be required to replace Summit Woods Lane with another name since Summit is the name of another street in West Linn. The applicant shall be required to replace Wood View Lane with another name since Wood View is the name of an existing street in West Linn. The applicant shall also submit, prior to final platting, a new subdivision name that doesn't use an existing street, subdivision, or district name. All substitute names shall be submitted for review by the Planning Director who will make a determination as to whether the new names duplicate or come close enough to cause confusion with existing street names in the City.
- 7. The applicant will be responsible for street improvements to Bland Circle, per the Tanner Basin Master Plan, at the direction of the City Engineer. The applicant shall also be providing additional right—of—way to Bland Circle per the City Engineer's direction, and generally consistent with the revised proposed master plan (Exhibit NN, dated 11-8-95) so as to not encroach on Tax Lot 1501. Safety improvements on Bland Circle, per the Tanner Basin Master Plan, shall be constructed between this site and Salamo Road based upon traffic engineer's study (e.g., Kittelson Report) and City Engineer's requirements. The study shall investigate traffic calming devices on Killarney to Bland Circle.
- 8. The applicant shall put on the face of the plat a declaration that all lots in excess of 14,000 square feet cannot be further partitioned.
- At such time that the multi-family phase is proposed, it shall be required to go through design review at the administrative level.
- 10. Subject to water availability, Phase I shall be completed by December 1996. Phase II shall be completed by December 1997, and Phase III shall be completed by December 1999. Extensions on these dates may be obtained pursuant to the Development Code. These completion dates and extensions shall apply only to PUD approval, not subdivision approvals except for Phase I, which is seeking both subdivision/PUD approval at this time.
- 11. The applicant shall provide a detailed tree inventory for Phase III at such time that the subdivision application is applied for
- 12. Prior to Phase III submittal, all lots that comprise slopes between 25-50 percent for over 50 percent of the lot area must be increased in size to at least 14,000 square feet pursuant to CDC Section 33.070.
- 13. No reserve strips are permitted.
- 14. Planter strips shall be six feet wide. Sidewalks shall be six feet wide. Modifications are allowed with Planning Director's approval to save trees.
- 15. The applicant will be responsible for the dedication of funds toward the future construction of the sewer trunk line on the south of the project. This amount of money will match the amount dedicated by the Tanner Crest Subdivision.
- 16. The applicant will construct off-site street improvements to Salamo Road in accordance with the Salamo Road traffic plan. These improvements will take care of the "vertical curve north of the S-curve." This is Item No. 2 in the plan. This improvement must meet the master plan and the approval of the City
- 17. The applicant shall be required to sign a pre-annexation agreement prior to final
- 18. Street trees will be installed in the planter strip at two per lot frontage.
- 19. Exhibit NN shall be the approved site plan (dated 11-8-95) for this application.

This decision shall become effective 14 days from the date of mailing of this final decision as identified below. Those parties with standing (e.g., those individuals who submitted letters into the record or provided oral or written testimony during the course of the hearing, or who signed in on the attendance sheet at the hearing, or who have contacted City planning staff and made their identities known to staff) may appeal this decision to the West Linn City Council within 14 days of the mailing of this decision pursuant to the provisions of Chapter 99 of the Community Development Code. Such appeals would require a fee of \$400 and a completed appeal application form together with the specific grounds for appeal to the Planning Director

STAFF ANALYSIS AND PLANNING DIRECTOR'S DECISION **JANUARY 21, 1998**

The findings are made by the Planning Director in response to the approval criteria for Section 85.200 and are contained in Exhibit "A".

This application is found to be an expedited subdivision pursuant to findings prepared in the applicant's submittal addressing the criteria set fourth in ORS 197.360, and incorporated here by reference.

DECISION

Based upon the Findings of Exhibit A, the Planning Director hereby approves the application. SUB-97-08, a 71 lot subdivision known as Ridgeview Estates Phases II and III. The Planning Director has determined that the following conditions of approval shall

1. In lieu of street dedication, that applicant shall dedicate a "street plug" over the stubout street running north from Fircrest Court to the property line. The applicant shall be required to maintain existing vegetation to screen the subdivision from the adjacent lot to the north.

2. The applicant shall design and construct a 24 foot asphalt pavement street and four foot concrete sidewalk connection within the 28 feet of street right-of-way made available for the connection between Alpine Drive and Killarney Drive.

3. The applicant shall design, provide right-of-way, and construct a full and/or half street plus a lane street cross—section to match the existing Lower Bland Circle street improvements along the development's Lower Bland Circle street frontages.

4. The applicant shall conform to all previous land use decisions and conditions of approval related to this project.

5. Proposed Lot 101 shall be noted on the final plat map as not further subdividable.

6. The applicant shall construct a 6-foot wide concrete pedestrian pathway within 20foot right-of-way provided between Bland Circle and Crestview Court (along lots 70 and 74) and a 6-foot wide concrete pedestrian pathway within a 10-foot half-width pedestrian easement or right-of-way along the north lot line 40 between Bland Circle and Alpine Drive. The applicant shall submit private—public delineation plans per CDC 55.100 G and 85.200 (C) to the City Engineer and Planning Director for approval on these pathways.

7. The applicant shall 1) receive City approval of a natural drainage way permit pursuant to Chapter 32 of the Community Development Code, which shall include a local drainage way enhancement plan that mitigates for all of the drainage way transition areas that are disturbed and/or eliminated by the development of this site, 2) pay the City an in-lieu of fee per the City of West Linn Municipal Code and United Sewage Agency assessment rates for the lack of providing the last 20.5% of the required Total Composite PH Removal, 3) not grade the site onto Tax Lot 1501 (Landau property), and 4) relocated the storm drain and sanitary sewer utility lines out from along the natural drainage way (preferable within a pathway/utility easement or within a public street).

8. The applicant shall 1) construct the master plan water transmission main improvements between the end of the 16" Parker Summit subdivision water main improvements and the existing 14" water main end on Ponderay Drive, 2) construct the Horton zone Master Plan water transmission main on Lower Bland Circle between Salamo Road and the north end of the development's Bland Circle street improvements and 3) provide the City with an actual fire flow test result from the highest elevation fire hydrants (during an induced high water demand day) that proves that the required fire flow (1,000 gpm) for single family homes has been provided prior to any combustible building materials being delivered onsite.

9. The applicant shall 1) finance the review by the City's Sanitary Sewer Master Plan consultant to fully determine if the proposed modification of the sewage system can meet the sewage requirements of its entire service area, 2) construct any necessary offsite improvements to allow the proposed sanitary sewer modification as required, 3) obtain written approval from the City Engineer that the proposed modifications can be made to the City's sanitary system master plan prior to receiving approved public improvement construction plans a, 4) relocate the sanitary sewer utility lines out from along the natural drainage way (preferably within a pathway/utility easement or within a public street).

10. The applicant shall conform to all City codes and policies unless granted a written waiver by the appropriate deciding body.

11. Each subdivision lot shall provide minimum five foot utility easements on all front and rear lot lines.

12. The applicant shall make the following modifications to the proposed tree protection

Area III: Full protection of this area will result in severe constraints being placed on development of a single family home on Lot 59. These trees were identified as being of marginal significance by the applicant's silviculturist, with several diseased and dying trees amongst them. Therefore, the applicant will not be required to preserve these trees through the use of an easement. In lieu of these trees, the applicant shall expand Are IV southerly to include two additional cheery trees at the southerly end of Lot 60. Preservation of these trees will not result in any additional constraints on the development of a homesite on Lot 60.

Lot 101: Three trees on this lot (A 14" oak and two 12" firs) are located on Type I and Type II lands. The applicant shall place a tree conservation easement over these three trees covering their driplines plus 10 feet. Since Lot 101 is greater that 14,000 square feet in size, and the easement would have a minimal effect on adjacent Lot 100, both of these lots would retain buildable sites despite the presence of this easement.

13. The applicant shall conform to all Federal, State and Local policies and codes unless granted a written waiver, modification and/or variance by the appropriate deciding

14. The applicant shall compete all of the required public improvements for this development prior to more that 30% of the building permits being issued and prior to any final building inspection and/or occupancy being granted.

15. Where Crestview Drive crosses the intermittent drainage way, the applicant shall eliminate the planter strip, place sidewalks adjacent to the roadway, and construct retaining walls on each side of the roadway.

GENERAL NOTES:

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF WEST LINN DESIGN STANDARDS, O.S.H.D. AND A.P.W.A. OREGON CHAPTER SPECIFICATIONS (LATEST EDITION).
- CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS. PRIOR TO CONSTRUCTION. IF ANY CONFLICTS ARE DISCOVERED, CONTACT THE ENGINEER BEFORE CONTINUING CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.
- 4. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST.
- THE ENGINEER HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, TOPSOIL AND OTHER MATERIAL IN THE ROADWAY AND WHERE INDICATED ON THE PLANS. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET LOCAL REGULATIONS.
- CONTRACTOR SHALL NOTIFY TRILAND DESIGN GROUP. INC., AND THE CITY OF WEST LINN. 48 HOURS BEFORE STARTING CONSTRUCTION OR 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS. EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS.
- ALL GRADING SHALL CONFORM TO THE GEOTECHNICAL INVESTIGATION BY FUJITANI HILTS & ASSOCIATES. DATED MARCH 27. 1996 FOR THE SUNSET SUMMIT ESTATES SUBDIVISION (PRIOR NAME)
- 9. ROCK EXCAVATION QUANTITIES SHALL BE DETERMINED BY IN PLACE MEASUREMENT. IF MEASUREMENT IS TO BE MADE BY TRUCKLOAD QUANTITIES. AN APPROXIMATE BULKING FACTOR SHALL BE APPLIED. BULKING FACTOR SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER BASED UPON EIELD OBSERVATIONS DURING CONSTRUCTION

TRAFFIC CONTROL AND CONSTRUCTION SHALL BE LIMITED TO THE HOURS BETWEEN 7 AM TO 6 PM UNLESS APPROVED BY THE CITY OF WEST LINN.

PRIOR TO PLACEMENT OF AGGREGATE BASE, AND AGAIN PRIOR TO PAVING, THE SUBGRADE SHALL BE PROOF ROLLED WITH A FULLY LOADED 10-12 CUBIC YARD DUMP TRUCK IN THE PRESENCE OF THE ENGINEER AND THE CITY INSPECTOR. ANY SOFT AREAS DETECTED BY THE PROOF ROLLING SHALL BE REMOVED AND BACKFILLED WITH STRUCTURAL FILL AS REQUIRED BY APWA

ROAD GRADING + PAVING NOTES:

- FILLS SHALL BE PLACED IN THIN LIFTS AS DIRECTED BY THE ENGINEER AND COMPACTED TO A DRY DENSITY OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (AASHTO T-99) WITHIN BUILDING AREAS AND STREET RIGHTS-OF-WAY. ALL FILLS OUTSIDE THESE LIMITS SHALL BE COMPACTED TO 92% OF THE MAXIMUM DRY DENSITY (AASHTO T-99).
- CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN SUBGRADE IS COMPLETE AND 24 HOURS PRIOR TO PLACEMENT OF ROCK BASE MATERIAL AND 24 HOURS PRIOR TO FINAL PAVING FOR AN INSPECTION OF THE WORK. FAILURE TO DO SO WILL MAKE ANY SUBGRADE FAILURE OR DRAINAGE PROBLEMS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. ASPHALT CONCRETE PAVEMENT MIX TO BE DESIGNED FROM A MIX FORMULA APPROVED BY O.S.H.D. AND THE CITY OF WEST LINN, FOR MATERIAL USED. CONTRACTOR TO PROVIDE THE ENGINEER WITH CERTIFICATE OF COMPLIANCE FROM ASPHALT PAVEMENT PLANT, UNLESS OTHERWISE INDICATED.

BUILDING REQUIREMENTS NOTES:

- ROOF AND FOUNDATION DRAINS SHALL BE EITHER CONNECTED TO THE STREET THRU THE CURBS, OR CONNECTED TO HOUSE SERVICE LINES AS PROVIDED ON LOTS WHERE THE BUILDING ELEVATIONS ARE BELOW THE CURBS.
- 2. EXCESS EXCAVATION RESULTING FROM BUILDING CONSTRUCTION SHALL BE EITHER REMOVED FROM THE SITE OR SPREAD AND COMPACTED ON THE LOTS TO A DEPTH NOT TO EXCEED 6 INCHES.

WATER SYSTEM NOTES:

- 1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CITY OF WEST LINN STANDARDS. THE OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 33, A.W.W.A. AND A.P.W.A. STANDARDS.
- 2. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS. PRIOR TO CONSTRUCTION AND SHALL COORDINATE WATERLINE INSTALLATION WITH OTHER UTILITIES.
- 3. ALL PIPE SHALL BE "TYTON JOINT," CLASS 52 DUCTILE IRON. FITTING JOINTS SHALL BE MECHANICAL JOINT ENDS, EXCEPT WHERE SPECIFICALLY SHOWN OR DETAILED OTHERWISE. ALL PIPE AND FITTINGS SHALL BE CEMENT LINED.
- 4. FIRE HYDRANT ASSEMBLY SHALL BE KENNEDY K-81 GUARDIAN, WATEROUS PACER, OR APPROVED EQUAL.
- ALL TEES, BENDS AND BLOW-OFF LOCATIONS SHALL HAVE A POURED-IN-PLACE CONCRETE THRUST
- ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" FROM FINISH GRADE.
- 7. ALL SANITARY SEWER LINES RUNNING PARALLEL TO AND WITHIN 10' LATERALLY OR 18" VERTICALLY OF WATER MAIN, SHALL BE ENCASED IN CONCRETE.
- ANY CROSSING OF WATER MAIN BY SANITARY SEWER SHALL BE MADE AT APPROXIMATELY 90° AND HAVE 18" OF VERTICAL CLEARANCE OR SHALL BE CONSTRUCTED WITH NO JOINTS FOR A DISTANCE OF 9 FEET EITHER SIDE OF CROSSING. SANITARY LINE SHALL BE DUCTILE IRON
- WATER SERVICES WILL BE INSTALLED BY THE CITY OF WEST LINN AFTER WATER MAINS HAVE BEEN TESTED IN ACCORDANCE WITH ANSI/AWWA C600-87, AND PASSED DISINFECTION TESTING, UNDER SUPERVISION OF THE INSPECTOR. THE WATER SERVICE INSTALLATION SHALL BE AFTER CURBS HAVE BEEN INSTALLED AND BACKFILLED. AND PRIOR TO COMPLETION OF FINISH SUBGRADE AND OTHER UTILITY INSTALLATION. DO NOT CONNECT TO EXISTING SYSTEM UNTILL ALL TESTING HAS BEEN COMPLETED AND APPROVED BY THE CITY.

SANITARY + STORM SEWER NOTES:

- STORM SEWER PIPE DENOTED ON THE PLANS AS "PVC" SHALL BE PVC PIPE CONFORMING TO ASTM F794 S<u>TAN</u>DARDS.
- STORM & SANITARY SEWER PIPE DENOTED ON THE PLANS AS "DIP" SHALL BE DUCTILE IRON PIPE. CLASS 50.
- 3. ALL P.V.C. SANITARY SEWER PIPE SHALL CONFORM TO ASTM D3034, SDR35 SPECIFICATIONS AND SHALL BE CLEARLY MARKED AS SUCH.
- TRENCH EXCAVATION AND BACKFILL COMPACTION SHALL CONFORM TO A.P.W.A. DIVISION III, SECTIONS 301.1.01 THROUGH 301.3.11. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE THE REQUIRED COMPACTION. ALL EXCESS MATERIAL FROM THE TRENCH EXCAVATION SHALL BE DISPOSED OF ON-SITE IN ACCORDANCE WITH THE GRADING REQUIREMENTS.
- PIPE BEDDING SHALL BE 3/4"-0" CRUSHED ROCK CONFORMING TO THE PLAN DETAILS.
- TRENCHES WITHIN THE RIGHT-OF-WAYS SHALL BE COMPACTED "CLASS B" BACKFILL CONSISTING OF 3/4"-0" CRUSHED ROCK. TRENCHES OUTSIDE OF RIGHT-OF-WAYS SHALL BE "CLASS A" COMPACTED NATIVE MATERIAL, PER PLAN DETAILS.
- 7. ALL SANITARY SERVICE STUBOUTS SHALL BE A MINIMUM OF 3' INTO PROPERTY AND/OR BEYOND EASEMENT LINE AND SHALL BE MARKED "SANITARY SERVICE" WITH A 2" X 4" FOR FUTURE LOCATION. SERVICE STUBOUTS SHALL BE 4" DIAMETER PIPE.
- 8. ALL STORM DRAINAGE STUBOUTS SHALL BE A MINIMUM OF 3' INTO PROPERTY AND/OR BEYOND EASEMENT LINE AND SHALL BE MARKED "STORM SERVICE" WITH A 2" X 4" FOR FUTURE LOCATION. SERVICE STUBOUTS SHALL BE 4" DIAMETER PIPE.
- 9. ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE OTHER UTILITIES. AS REQUIRED: SUCH ADJUSTMENTS SHALL BE REVIEWED BY THE CITY OF WEST LINN, AND APPROVED PRIOR TO COMMENCING WORK.

10. THE STORM AND SANITARY SYSTEM SHALL BE

INSPECTED. TESTED. AND CLEANED IN

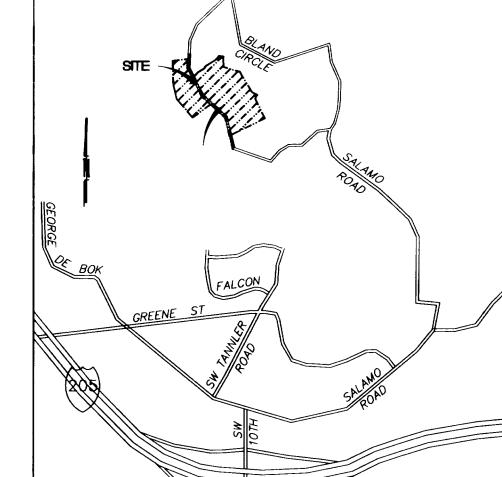
ACCORDANCE WITH THE CITY OF WEST LINN STREET / UTILITY DESIGN AND CONSTRUCTION STANDARDS, THIS INCLUDES THE FOLLOWING: STORM - MANDRELL AND TV TESTING SANITARY - MANDRELL, TV AND PRESSURE TEST. SANITARY MH'S - VACUM TESTING CONNECTIONS TO EXISTING SYSTEMS SHALL NOT BE MADE:

UNTILL ALL TESTS HAVE BEEN COMPLETED AND

11. CONTRACTOR SHALL PREPARE A PRINT FOR THE ENGINEER, SHOWING AS-CONSTRUCTED DATA.

APPROVED BY THE CITY OF WEST LINN ..

- 12. ALL MANHOLES LOCATED IN UNIMPROVED EASEMENTS SHALL BE WATERTIGHT AND PROVIDED WITH TAMPER-PROOF LIDS. RIMS TO BE SET 12" ABOVE FINISHED GRADE
- 13. ALL SERVICE STUBOUT DEPTHS WERE BASED ON ASSUMED 2"X4" BOARD LENGTH OF 14'.



VICINITY MAP

NOT TO SCALE.

BENCHMARKS:

BENCH MARK: CITY OF WEST LINN BENCH MARK "B" IS 93.5' EAST AND 17.0' SOUTH OF EDGE OF PAVEMENT FROM 5-WAY INTERSECTION OF ROSEMONT/DAY/SANTA ANITA 3" CAP ON PIPE WITH YELLOW WATER WORKS LID. ELEV = 667.22

THIS SUBDIVISION IS BASED ON OUT BOUNDARY SURVEY REF PLAT BOOK 108 PAGE 9. RECORDED 3 OF FEBUARY 1997 IN CLACKAMAS COUNTY.

SHEET INDEX

- 1. COVER SHEET + INDEX
- 2. GRADING + EROSION CONTROL PLAN
- 3. GRADING LIMITS AND TREE PROTECTION PLAN
- 4. EROSION CONTROL NOTE + DETAILS
- 5. MASTER UTILITY PLAN
- 6. STREET + STORM ALPINE DR
- 7. STREET + STORM FIRCREST
- 8. STREET + STORM CREST VIEW DR
- 9. MISC. PROFILES
- 10. SANITARY SEWER ALPINE DR
- 11. SANITARY SEWER FIRCREST
- 12. SANITARY SEWER CREST VIEW DR
- 13. RETAINING WALL PLAN

AS-BUILT THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS 14. WATER UTILITY PLAN AND PERFORMING SURVEY

15 POND DETAILS

16. STORM DETAILS

AS-BUILT

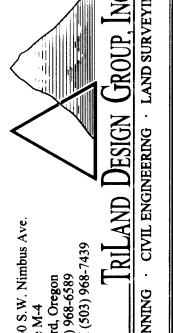
MEASUREMENTS OF PUBLIC UTILITIES

17. STORM + ROAD DETAILS

- 18. WATER LINE DETAILS
- 19. STREET SECTIONS AND PROFILES
- 20. SANITARY DETAILS

REVISIONS





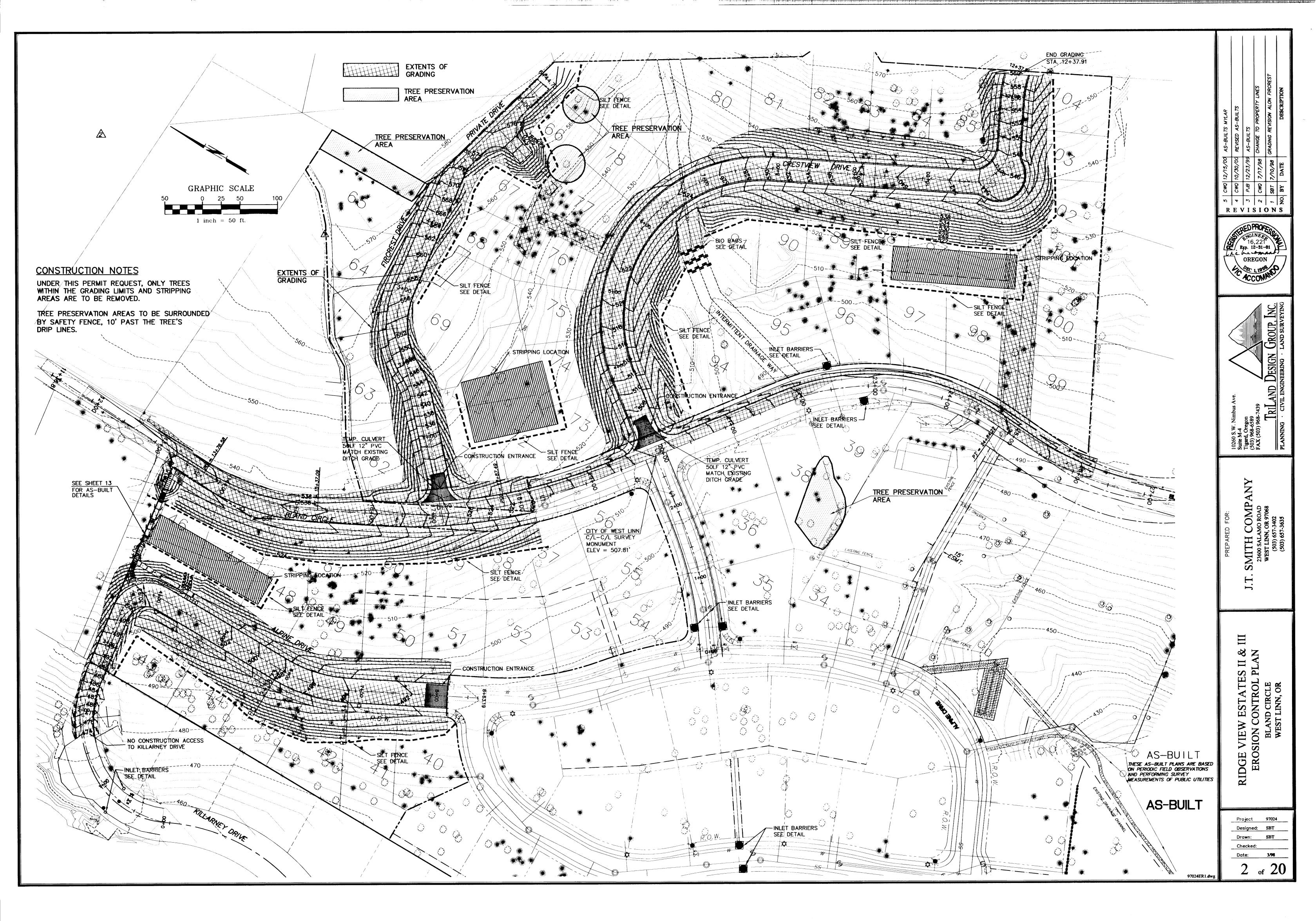
ANIES COMP, ALAMO RD.
NN, OR 97068
657-3402
657-3635

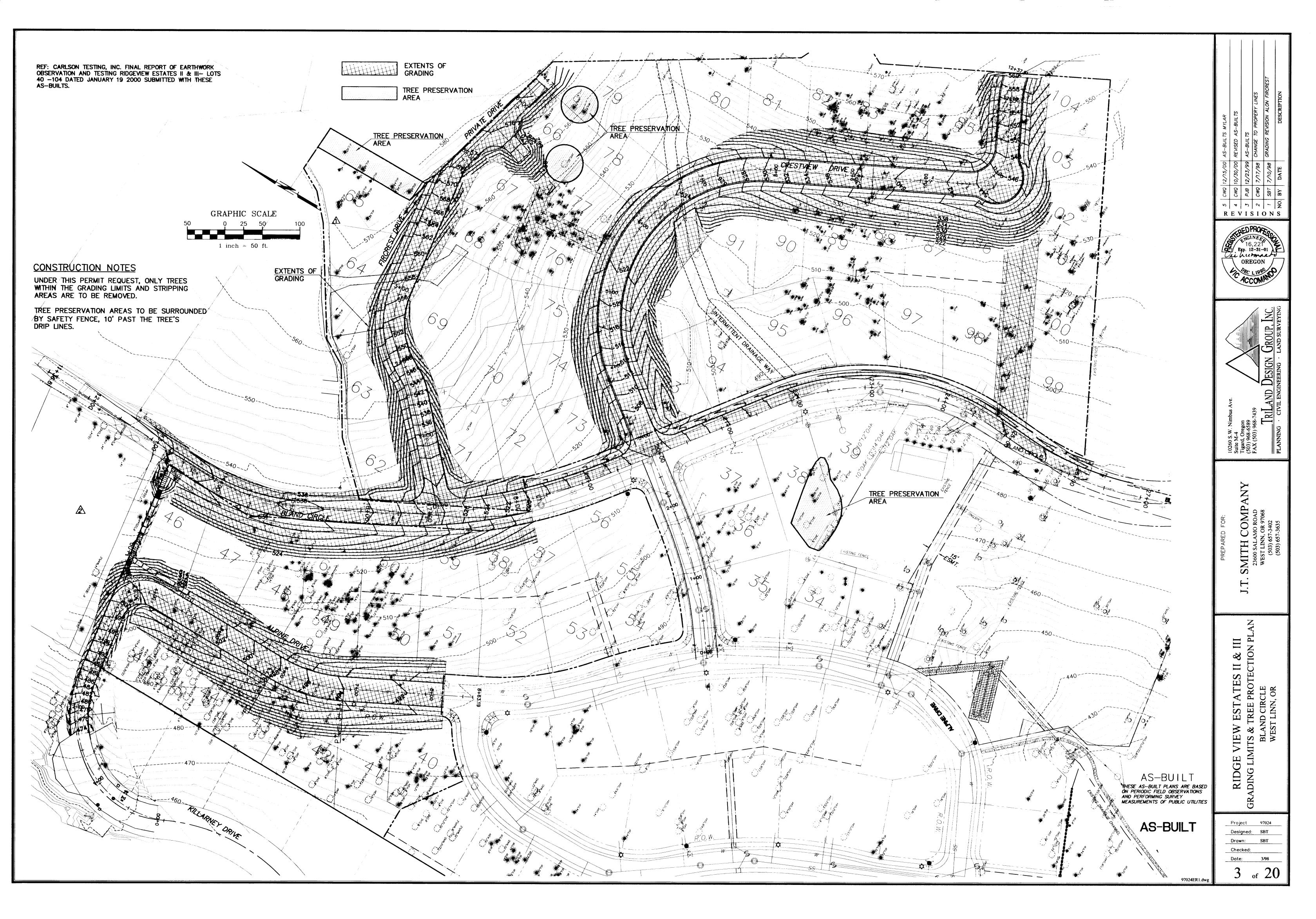
SMITH

S STATES SHEET CIRCLE JINN, OR VIEW ES
COVER BLAND C RIDGE

Project 97024 Designed: CWQ Drawn: SAE Checked: PJB

Date: 5/99





SEEDING / MULCHING NOTES:

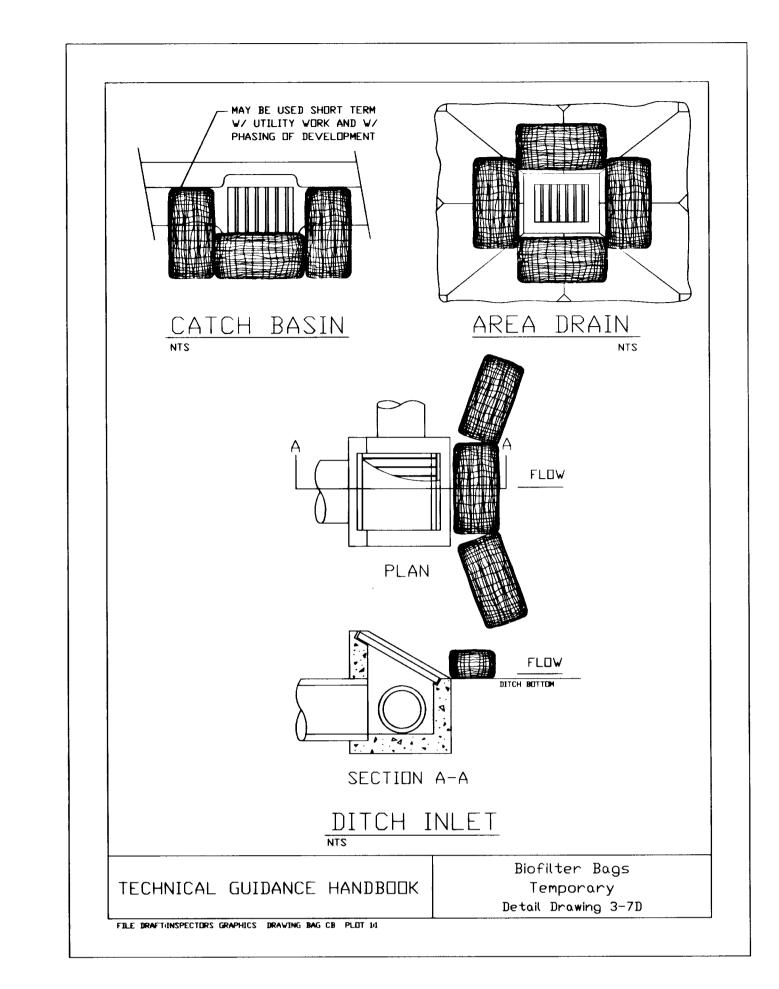
- A. Temporary grass cover measures must be fully established by November 1 or other cover measures will have to be implemented until adequate grass coverage is achieved. To establish an adequate grass stand for controlling erosion by November 1, it is recommended that seeding and mulching occur by September 1.
- B. Hydromulch shall be applied with grass seed at a rate of 2000 lb./acre. On slopes steeper than 10 percent, hydroseed and mulch shall be applied with a bonding agent (tackifier). Application rate and methodology to be in accordance with seed supplier recommendations.
- C. Dry, loose, weed—free straw used as mulch shall be applied at double the hydromulch application requirement (4000 lb./acre). Anchor straw by working in by hand or with equipment (rollers, cleat tracks, etc.).
- D. Mulch shall be spread uniformly immediately following seeding.
- E. Soil Preparation Top soil should be prepared according to landscape plans, if available, or recommendations of grass seed supplier. It is recommended that slopes be roughened before seeding by "track—walking," (driving a crawling tractor up and down slopes to leave a pattern of cleat imprints parallel to slope contours) or other method to provide more stable sites for seeds to rest.
- F. Seeding Recommended erosion control grass seed mixes are as follows. Similar mixes designed to achieve erosion control may be substituted if approved by jurisdiction.
 - Dwarf Grass Mix (low height, low maintenance):
 Dwarf Perennial Ryegrass, 80% by weight
 Creeping Red Fescue, 20% by weight
 Application rate: 100 pounds minimum per acre
 - 2. Standard Height Grass Mix
 Annual Ryegrass, 40% by weight
 Turf—type Fescue, 60% by weight
 Application rate: 100 pounds minimum per acre
- G. Fertilization for grass seed In accordance with supplier's recommendations. Development areas within 50 feet of water bodies and wetlands must use a non-phosphorus fertilizer.
- H. Netting and Anchors, as needed For disturbed areas on slopes and in ditches/swales, biodegradable netting or jute is desirable and may be used instead of bonding agents to provide a stable area for seeding. Netting should be anchored in accordance with manufacturer's recommendations.
- I. Watering Seeding shall be supplied with adequate moisture to establish grass. Supply water as needed, especially in abnormally hot or dry weather or on adverse sites. Water application rates should be controlled to provide adequate moisture without causing runoff.
- I. Re—seeding Areas which fail to establish grass cover adequate to prevent erosion shall be re—seeded as soon as such areas are identified, and all appropriate measures taken to establish adequate

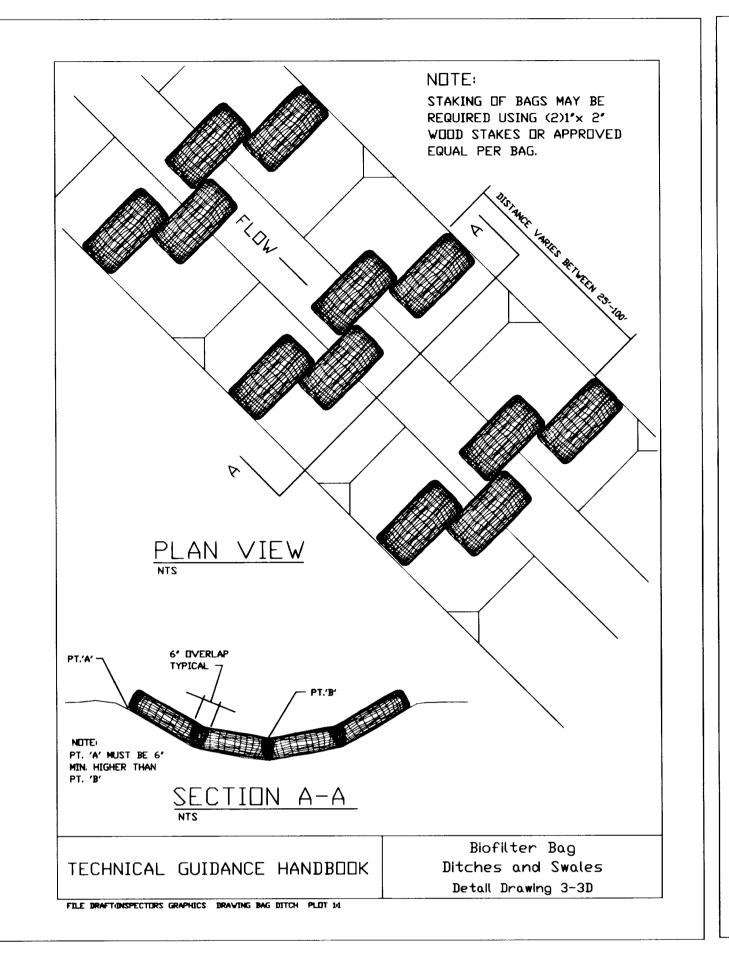
SEDIMENT FENCE:

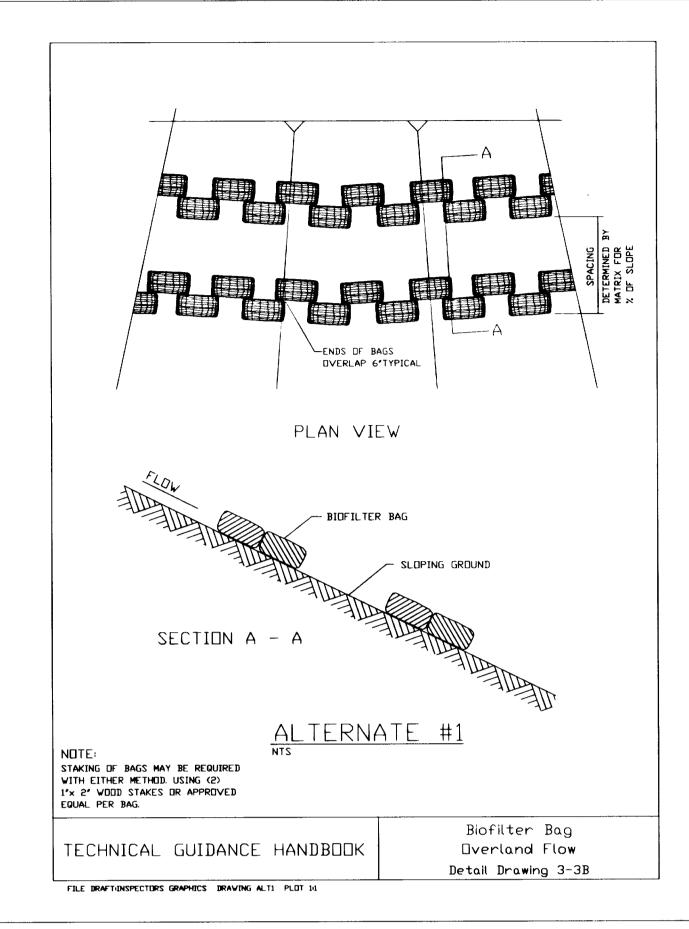
- 1. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum 6—inch overlap, and both ends securely fastened to the post, or overlap 2"x 2" posts and attach as shown on detail sheet 3—2.
- The filter fabric fence shall be installed to follow the contours where feasible. The fence posts shall be spaced a maximum of 6 feet apart and driven securely into the ground a minimum of 24 inches.
- 3. The filter fabric shall have a minimum vertical burial of 6 inches. All excavated material from filter fabric fence installation, shall be backfilled and compacted, along the entire disturbed area.
- 4. Standard or heavy duty filter fabric fence shall have manufactured stitched loops for 2"x 2" post installation. Stitched loops shall be installed on the up hill side of the sloped area.
- 5. Filter fabric fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently protected and stabilized.
- 6. Filter fabric 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.

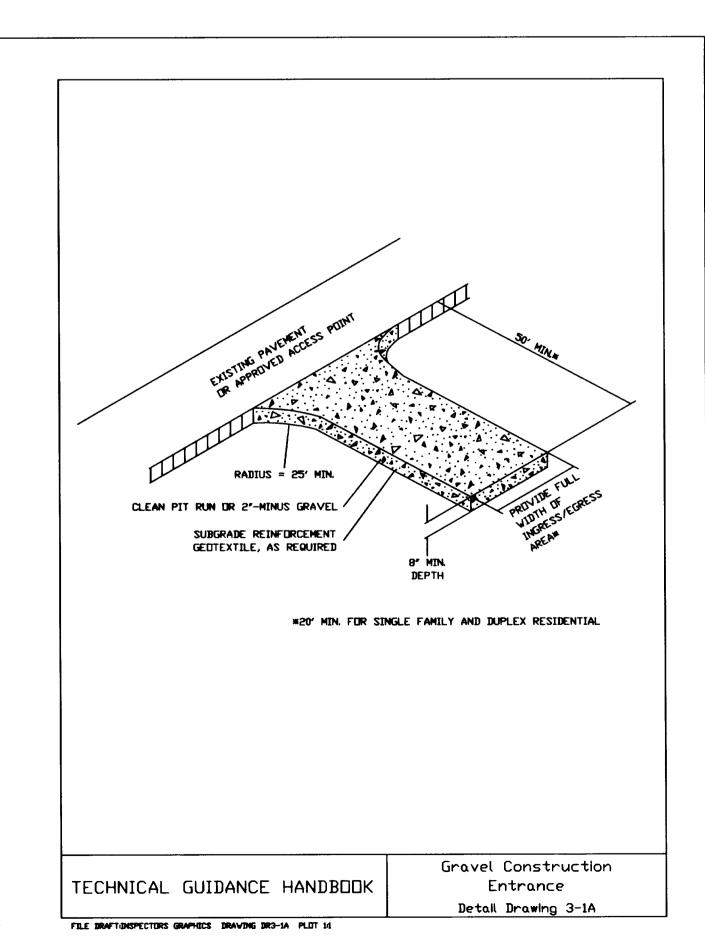
EROSION CONTROL (WET WEATHER) NOTES:

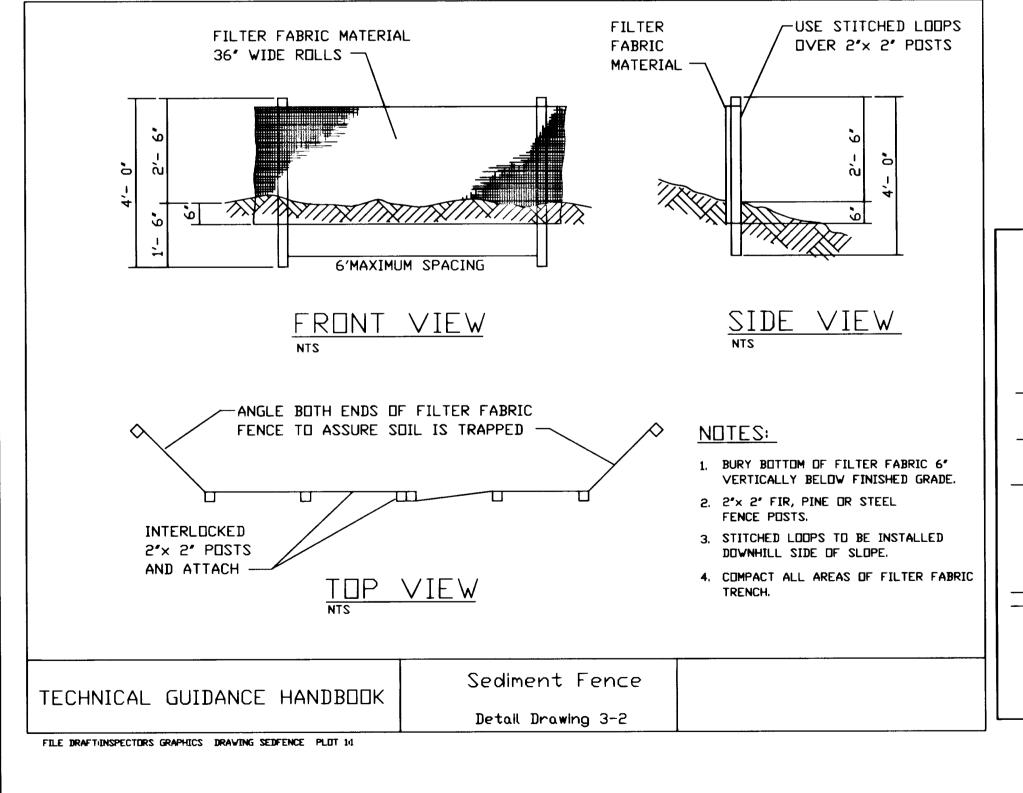
- A. Wet weather measures apply to all disturbed soil areas with a slope greater than 2% and any soil stock piled on site. All section references in the following wet weather notes refer to sections of the Erosion/Sedimentation Control Plans Technical Guidance Handbook, Unified Sewerage Agency, August 1994
- B. All soil stock piled on site shall be treated with 2"-min. straw mulch cover (Sec. 3.3.7)

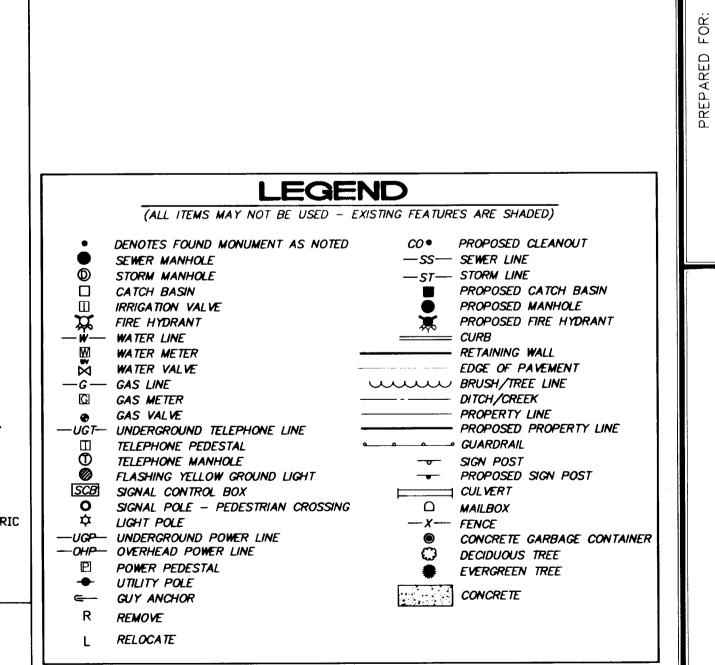












AS—BUILT

THESE AS—BUILT PLANS ARE BASED
ON PERIODIC FIELD OBSERVATIONS
AND PERFORMING SURVEY
MEASUREMENTS OF PUBLIC UTILITIES

AS-BUILT

97024ER1.dwg

10260 S.W. Nimbus Ave.
Suite M-4

Tigard, Oregon
(503) 968-6589

FAX (503) 968-7439

TRILAND DESIGN GROUP, IN

PLANNING · CIVIL ENGINEERING · LAND SURVEY

SMITH COMPANY
23600 SALAMO ROAD
WEST LINN, OR 97068
(503) 657-3402
(503) 657-3635

VIEW ESTATES II & III
CONTROL NOTE & DETAILS
BLAND CIRCLE
WEST LINN, OR

Project 97024

Designed: SBT

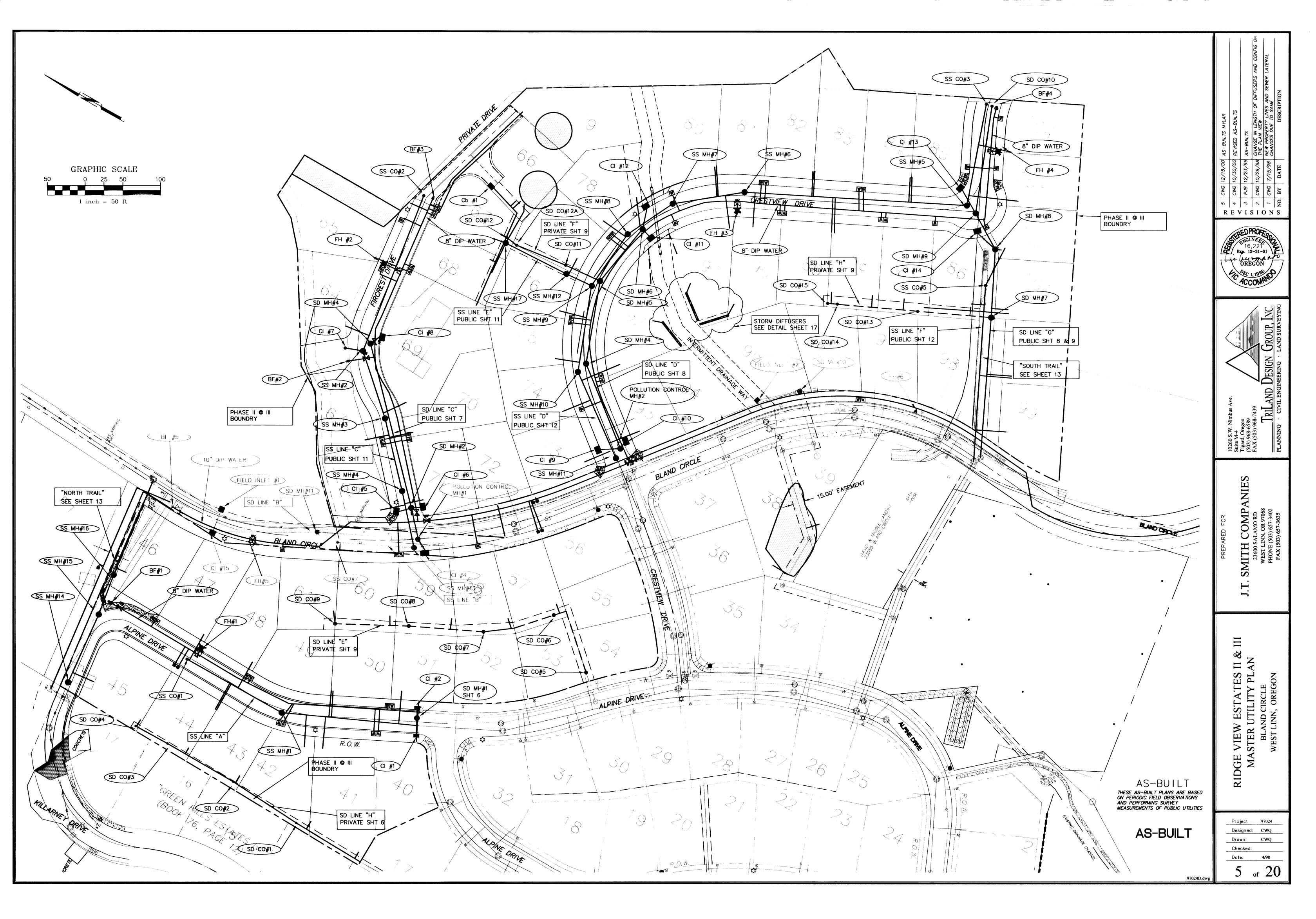
Drawn: SBT

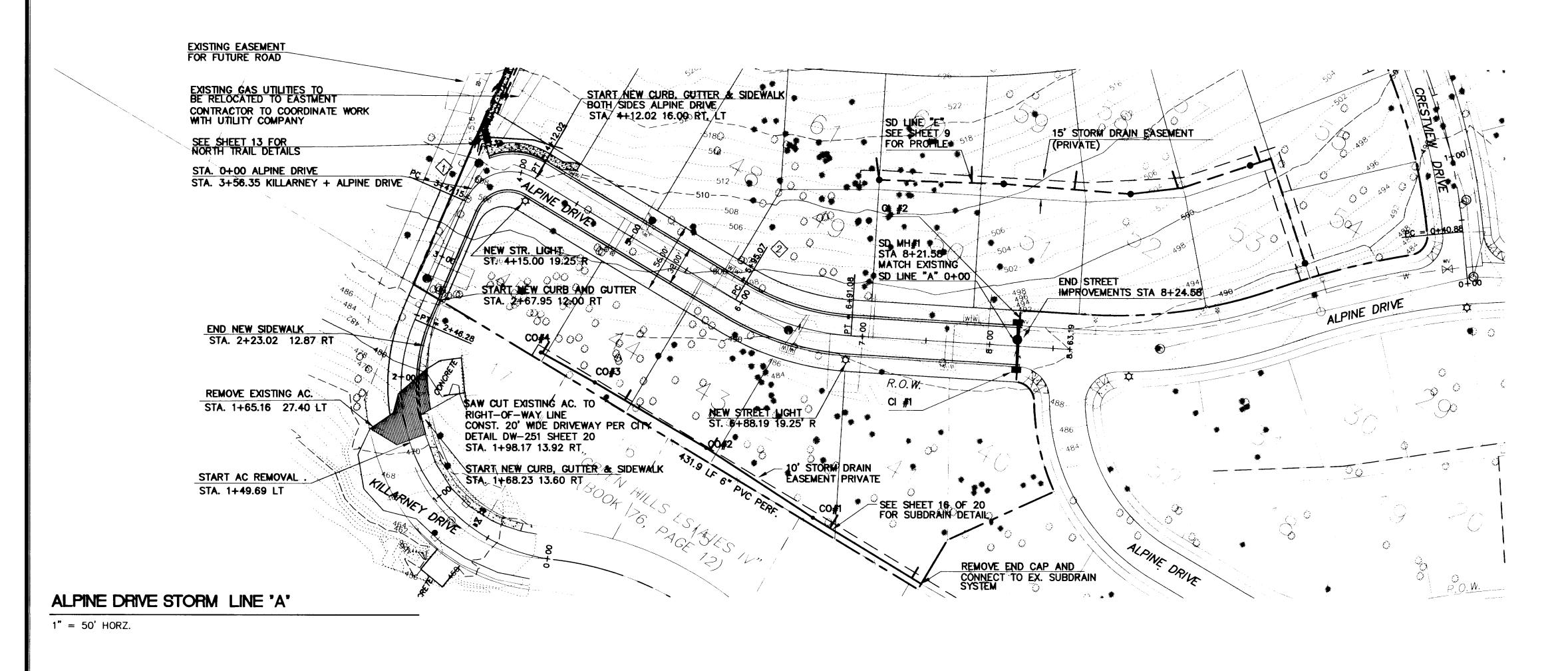
Checked:

Date: 4/98

RIDGE ROSION C

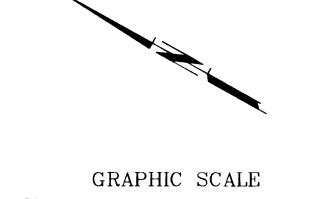
4 of





NOTES:

THE K VALUE THAT MATCHES THE CENTER LINE RADIUS HAS BEEN PRE-APPROVED WITH THE CONDITION THAT A STREET LIGHT BE INSTALLED AT THE CORNER.



1 inch = 50 ft.

	Q	CUR	VE DA	TA
CURVE	RADIUS	LENGTH	DELTA	STATION
♦	38.00'	64.87	97*48'30"	PC 3+47.15 PT 4+12.02
②	200.00'	96.01'	27'30'36"	PC 5+95.07 PT 6+91.08

CURB INLET TABLE								
STRUCTURE	STATION	INVERT	PIPE **			TOP OF CURE		
No.	OFFSET	ELEVATION.	L.F.	SIZE	SLOPE	ELEVATION		
Cl # 1	8+22.14 16' RT "ALPINE"	487.44' 486.50'	21.01'	10"	0.020 ft/ft	490.94' 490.06'		
CI#2	8+21.12 16' LT "ALPINE"	-486.50′	13.27	10"	0.031 " "	-490.08 '		
		486.96°	_			490.91'		

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Project 97024 Designed: CWQ Drawn: CWQ Checked: 4/98 6 of 20

RIDGE VIEW ESTATES II & II
ALPINE STREET & STORM
BLAND CIRCLE
WEST LINN, OREGON

REVISIONS

SMITH COMPANIES
23600 SALAMO RD
WEST LINN, OR 97068
PHONE (503) 657-3402
FAX (503) 657-3635

HIGH POINT ELEV = 503.74 HIGH POINT STA = 4+54.53 PVI STA = 3+75 PVI ELEV = 509.08 1 A.D. = -22.52 K = 12.43 280.00' VC PVI STA = 6+87 PVI ELEV = 493.90 A.D. = 2.72 K = 29.36 C 80.00' VC N O PVI STA = 1+20 PVI ELEV = 464.05 A.D. = 12.11 K = 19.00 BVCS: 2+35 BVCE: 484,36 230.00' VC SD MH#1

RIM 490.78' 490.74'

STA 8+21.57.5'L

STORM LINE "A" STA 0+00

I.E. IN 486.89 485.89

I.E. IN 486.89 485.89

I.E. OUT 485.88485.72 BVCS: 0+05 BVCE: 457.67

4+00

5+00

6+00

493.5 493.75

7+00

492.4 491.48

8+00

490.3

ALPINE DRIVE STORM LINE 'A' PROFILE

0+00

1+00

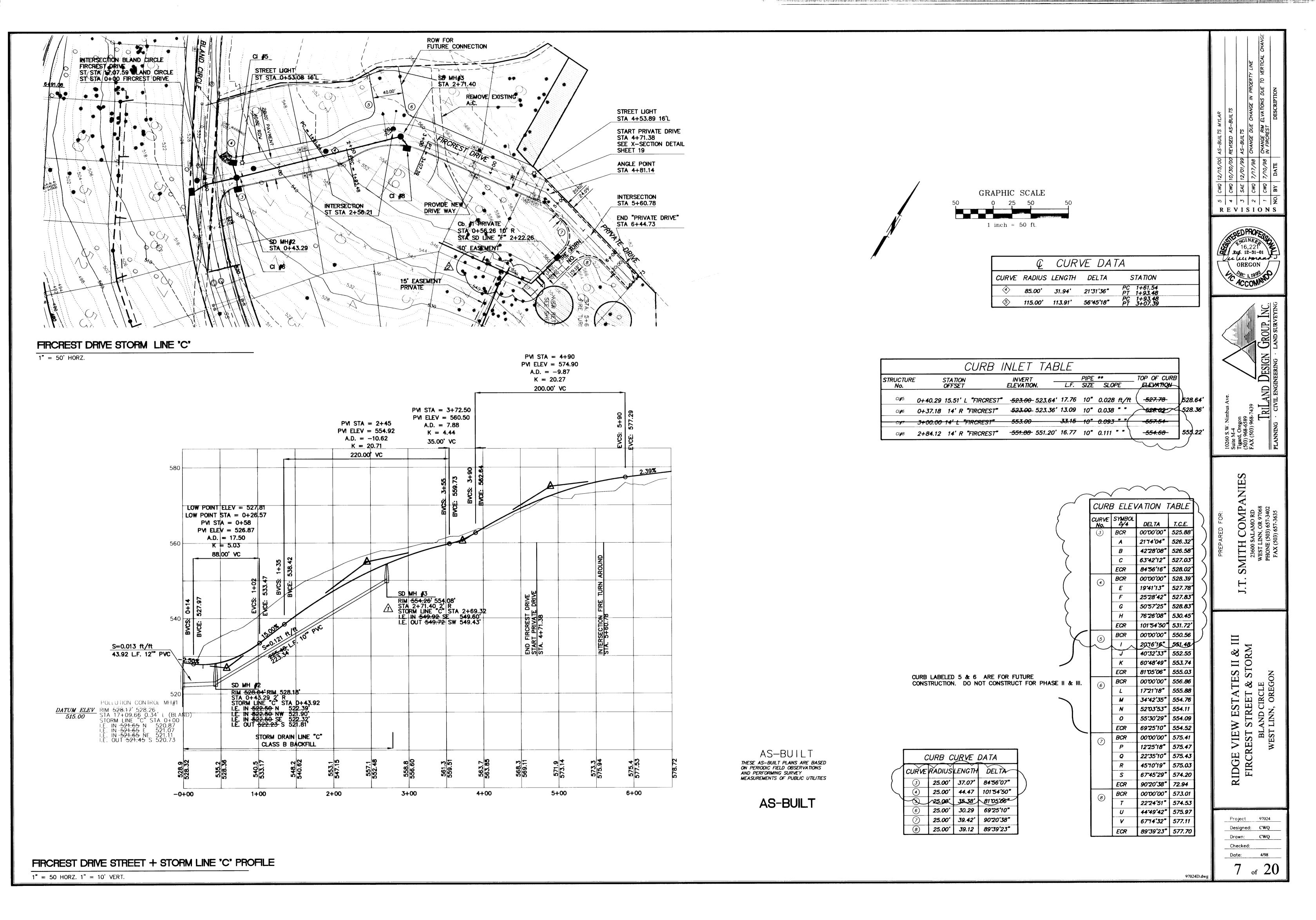
2+00

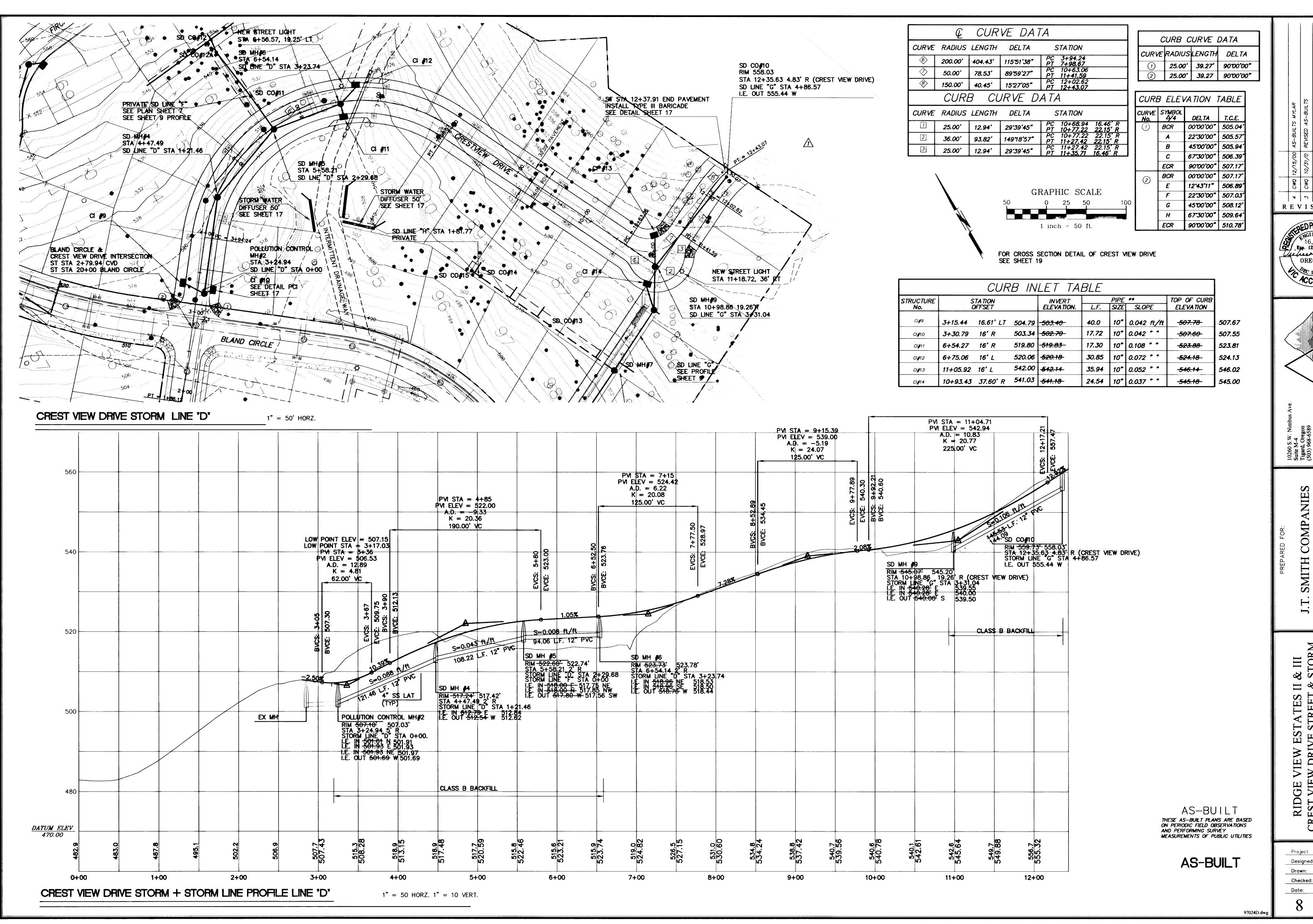
3+00

<u>DATUM ELEV</u> 445.00

1" = 50 HORZ. 1" = 10' VERT.

97024D.dwg





REVISIONS 16,221 Bp. 12-31-01 humans OREGON

GROUP, INC.

AND DESIGN

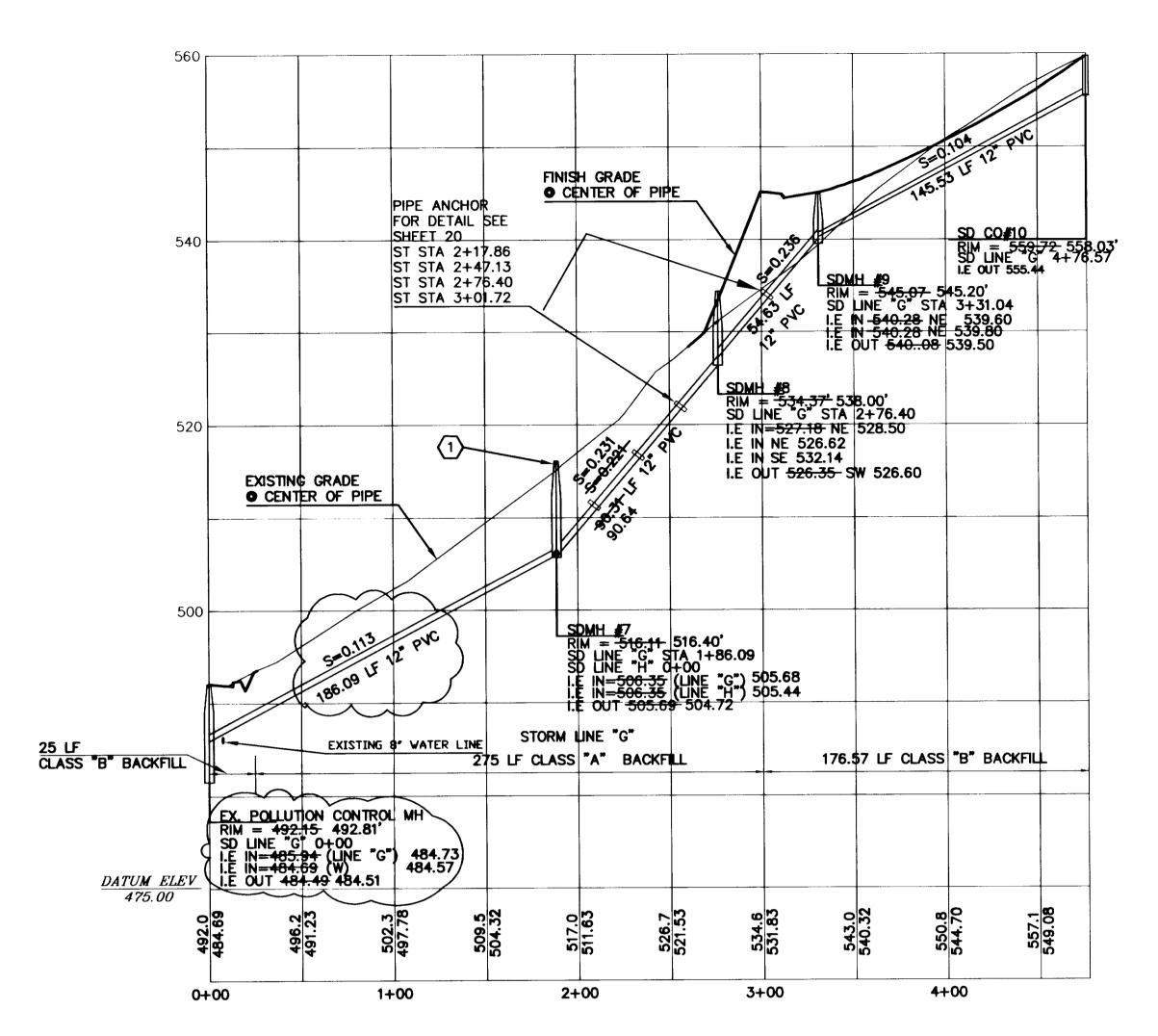
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& III STORM

STATES I E STREET RIDGE VIEW ES CREST VIEW DRIVE

Project 97024 Designed: CWQ Drawn: CWQ Checked:

4/98

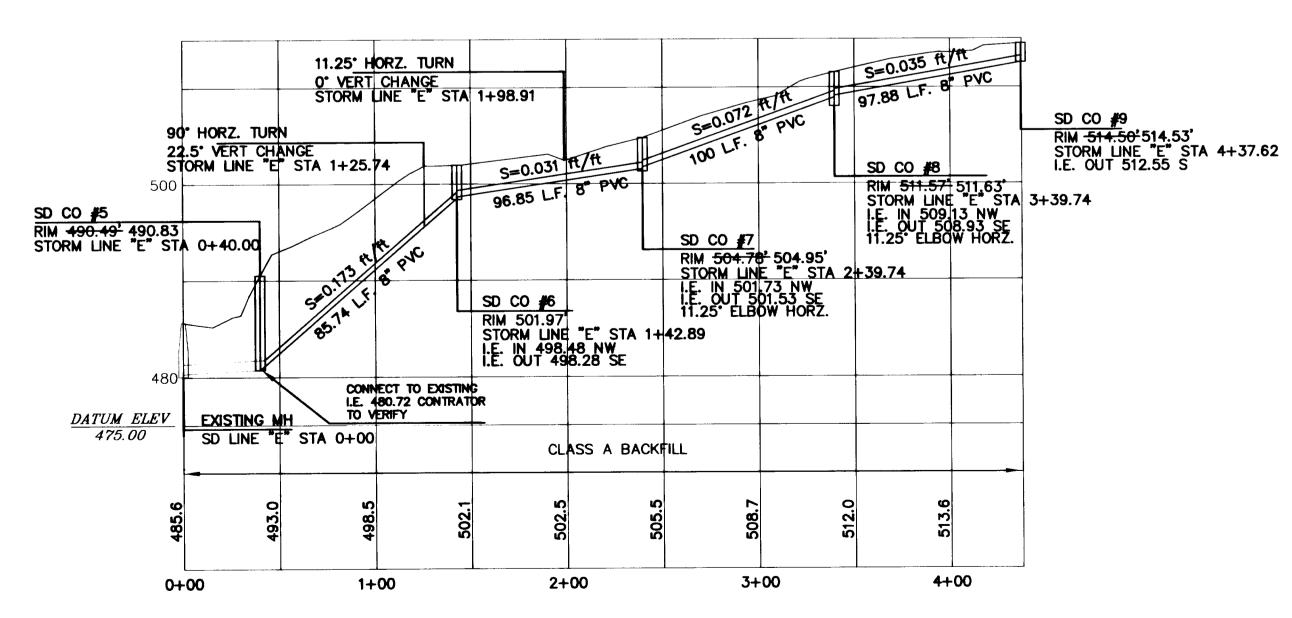


PUBLIC STORM DRAIN LINE 'G'

1" = 50 HORZ. 1" = 10' VERT.

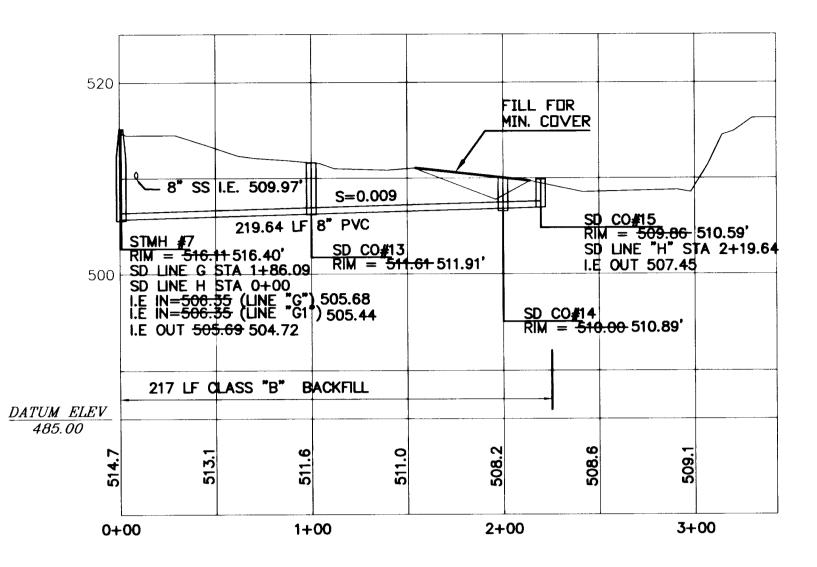
CONSTRUCTION NOTES:

ALL MH RIM ELEVATIONS TO BE MIN OF 1' ABOVE THE FINISHED GRADE WHERE LOCATED OUTSIDE STREET RIGHT OF WAY



PRIVATE STORM DRAIN LINE 'E'

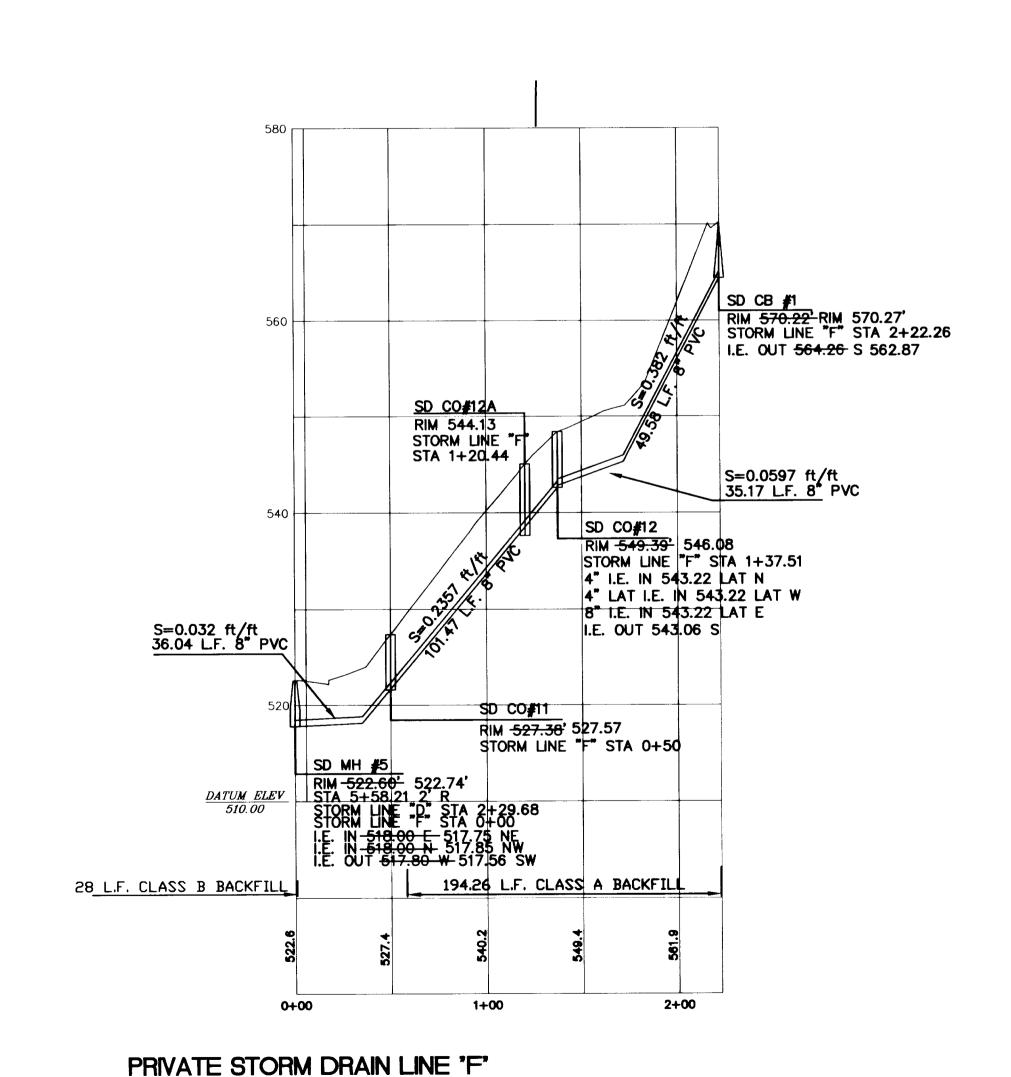
1" = 50 HORZ. 1" = 10' VERT.



PRIVATE STORM DRAIN LINE "H"

1" = 50 HORZ. 1" = 10' VERT.

 $1" = 50 \text{ HORZ}. \ 1" = 10' \text{ VERT}.$



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Designed: CWQ Drawn: CWQ Checked: 4/98 of 20

' ESTATES | PROFILES

VIEW MISC.

RIDG

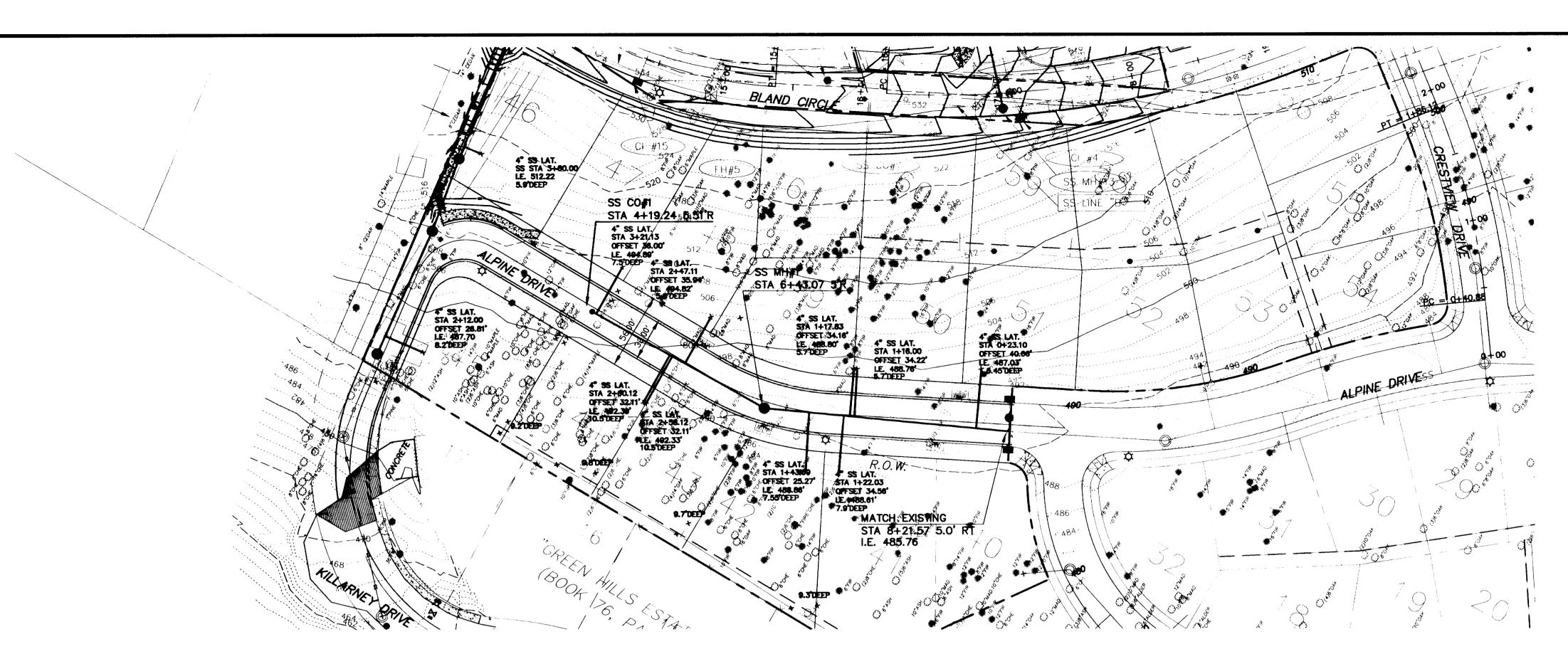
Project 97024

BLAND CIRCLE WEST LINN, OREGON

REVISIONS

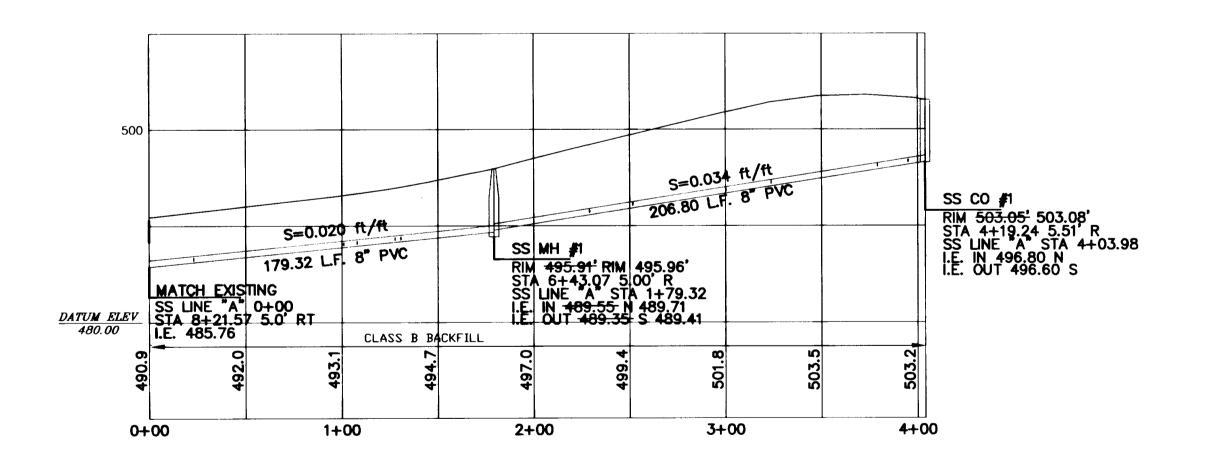
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ALPINE DR. SANITARY SEWER LINE "A"

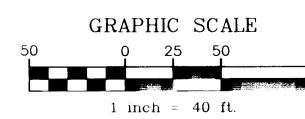
1" = 50' HORZ.



ALPINE DRIVE SANITARY SEWER PROFILE LINE "A" 1" = 50 HORZ. 1" = 10' VERT.

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AS-BUILT



Date:

Project 97024

Designed: CWQ Drawn: CWQ

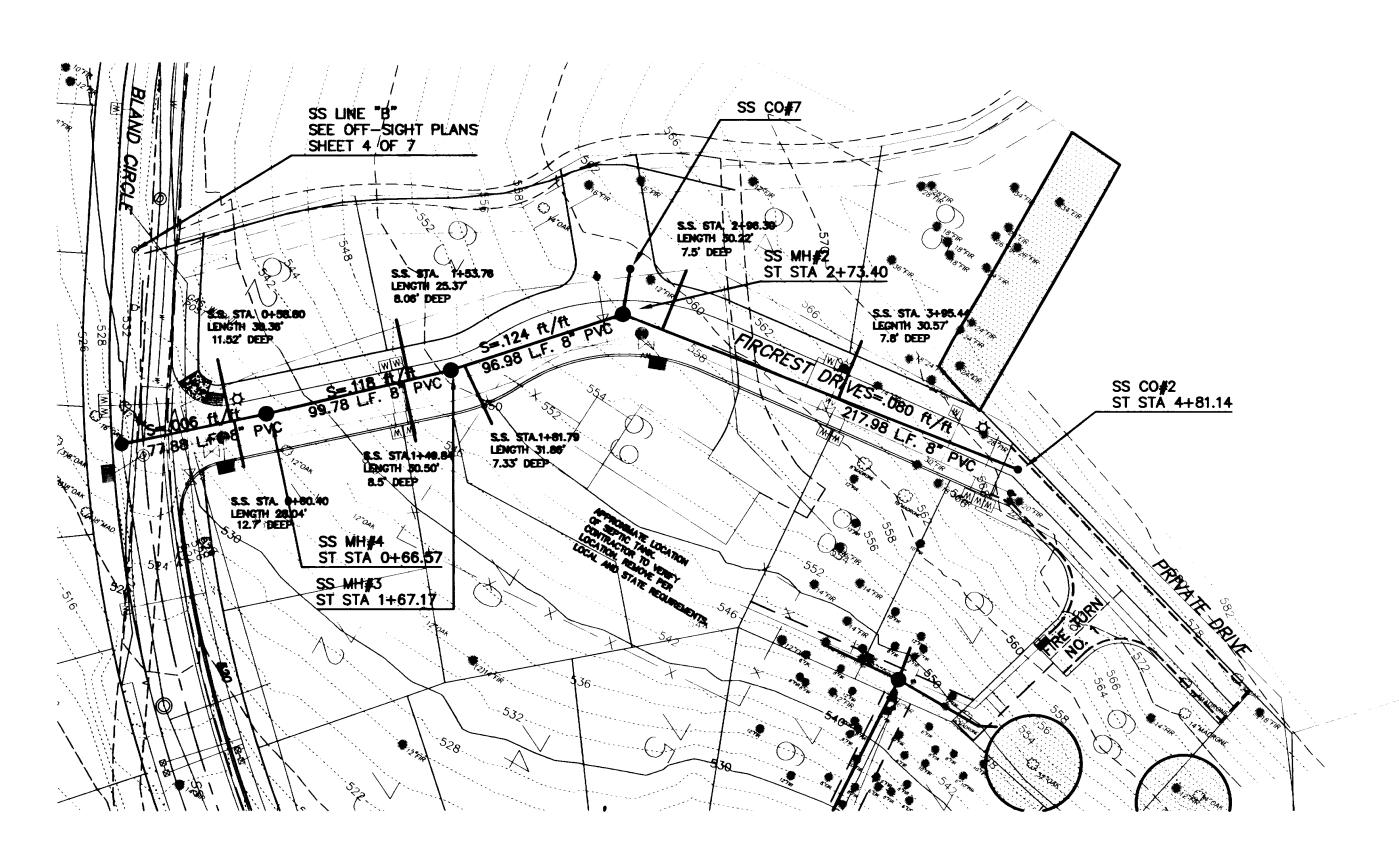
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Exp. 12-31-01

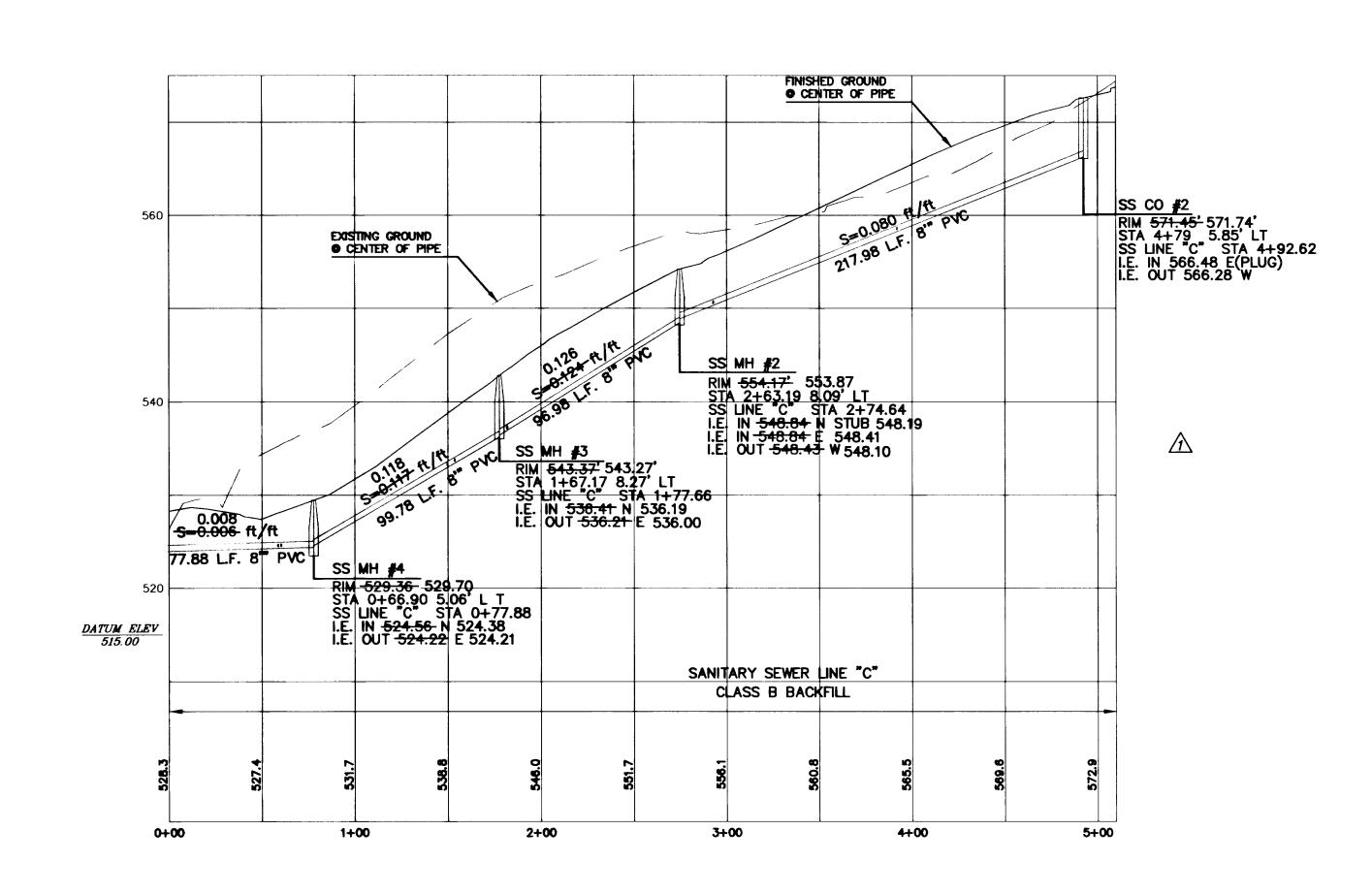
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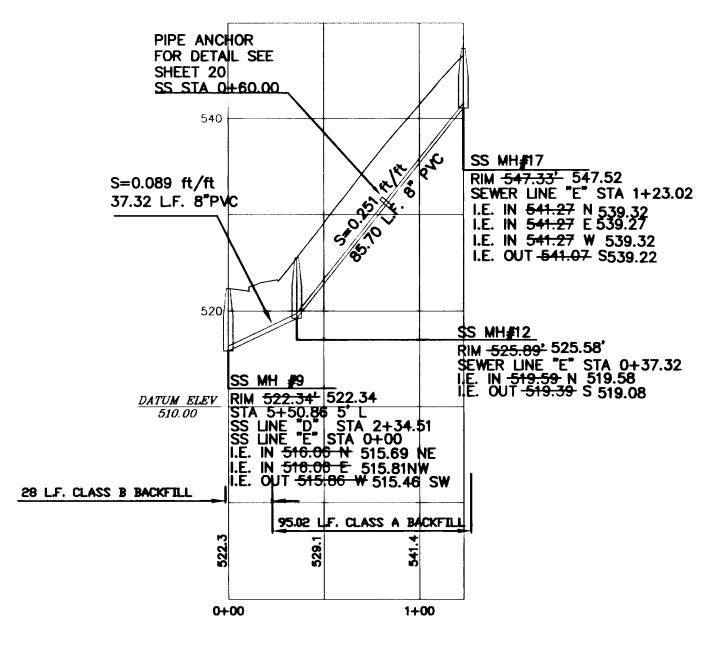
RIDGE VIEW ESTATES II & III
ALPINE SANITARY SEWER
BLAND CIRCLE
WESTLINN, OREGON



FIRCREST DR. SANITARY SEWER LINE 'C'

1" = 50' HORZ.



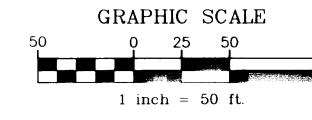


PUBLIC SANITARY SEWER LINE 'E'

1" = 50 HORZ. 1" = 10' VERT.

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Project 97024 Designed: CWQ Checked: 4/98

RIDGE VIEW ESTATES II & III
FIRCREST SANITARY SEWER
BLAND CIRCLE
WEST LINN, OREGON

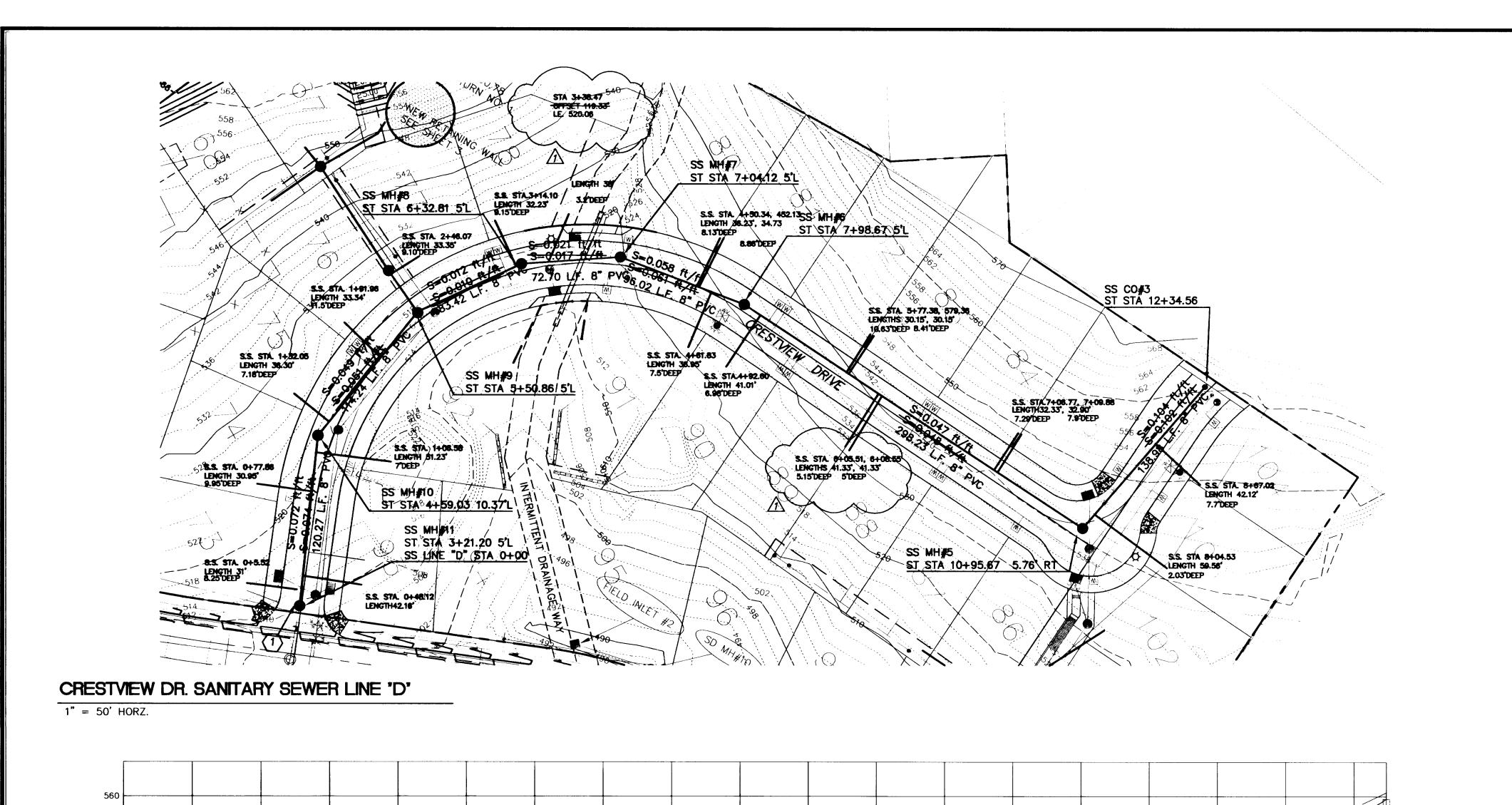
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FIRCREST DRIVE SANITARY SEWER PROFILE LINE 'C'

1" = 50 HORZ. 1" = 10' VERT.

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18" PCP

SS MH #7

RIM 524|85' 524.97' STA 7+04.12 5' L SS LINE "D" STA 3+90.63 I.E. IN 518.54 SE 518.75' I.E. OUT 518.34 NW 518.62'

SANITARY LINE "D"

CLASS B BACKFILL

5+00

10" SD LINE "F"
STA 2+42.28 SS LINE "D"

72.70 L.F. 8" PVC

SS MH #8

RIM 523.43' 523.52'
STA 6+32.81 5' L
SS LINE "D" STA 3+17.93
I.E. IN 517.13 SE 517.09'
I.E. OUT 516.93 W 516.83'

4+00

\$=0.012 ft/ft 15=0.010 ft/ft

3+00

SS MH #10
RIM 516.33' 516.30'
STA 4+39.53 10.37'
L.E. IN 510.08 E 509.89'
I.E. OUT 509.88 W 509.73' SS MH #9
RIM 522.34' 522.34 I.E.
STA 5+50.86 5' L
SS LINE "D" STA 2+34.51
SS LINE "D" STA 2+34.51
SS LINE "D" STA 2+34.51
SS LINE "E" STA 0+00
I.E. IN 516.06 N 515.69 NE
I.E. IN 516.06 E 515.81NW
I.E. OUT 515.86 W 515.46 SW

2+00

STA 3+62.57 SS LINE "D"

FINISH GRADE • CENTER OF PIPE

SS MH #5

RIM 545.21'
STA 10+95.67 5.76' RT
SS LINE "D" STA 7+84.88
I.E. IN 538.95 E 538.73'
I.E. OUT 538.75 NW 538.44'

9+00

8+00

SS CO #3

RIM 559.61' 558.67'
STA 12+34.56 4.15' LT
SS LINE "D" STA 9+23.66
I.E. IN 553.32 E
I.E. OUT 553.12 W

EXISTING GRADE

• CENTER OF PIPE

SS MH #6

RIM 530.38' 530.52'
STA 7+98.67 5' L
SS LINE "D" STA 4+86.65
I.E. IN 524.58 SE 524.56'
I.E. OUT 524.38 NW 524.31'

6+00

298.23 LF. 8" PVC

7+00

GRAPHIC SCALE 1 inch = 50 ft.

CONSTRUCTION NOTES:

REVISIONS 16,221 Exp. 12-31-01 OREGON

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[& III SEWEI E VIEW ESTATES II & TEW DR. SANITARY STAND CIRCLE WEST LINN, OREGON RIDGE VIEW CREST VIEW DR.

Project 97024 Designed: CWQ CWQ Drawn: Checked:

Date: 4/98

520 r EXISTING 8' WATER EX. SANITARY MH

RIM = 492 24492.89'

SS LINE "F" STA 0+00

I.E IN=485.00 (LINE "F") 484.65

I.E IN=484.52 (N) 484.81

I.E OUT 484.32 484.59 SS LINE "F"

186.32 LF CLASS "A" BACKFILL 28 LF CLASS "B" BACKFILL <u>DATUM ELEV</u> 475.00 2+00 0+00 1+00 THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS AND PERFORMING SURVEY MEASUREMENTS OF PUBLIC UTILITIES

SANITARY SEWER LINE 'F'

1" = 50 HORZ. 1" = 10' VERT.

CRESTVIEW DR. SANITARY SEWER PROFILE LINE 'D'

1+00

1" = 50' HORZ. 1" = 10' VERT.

0+00

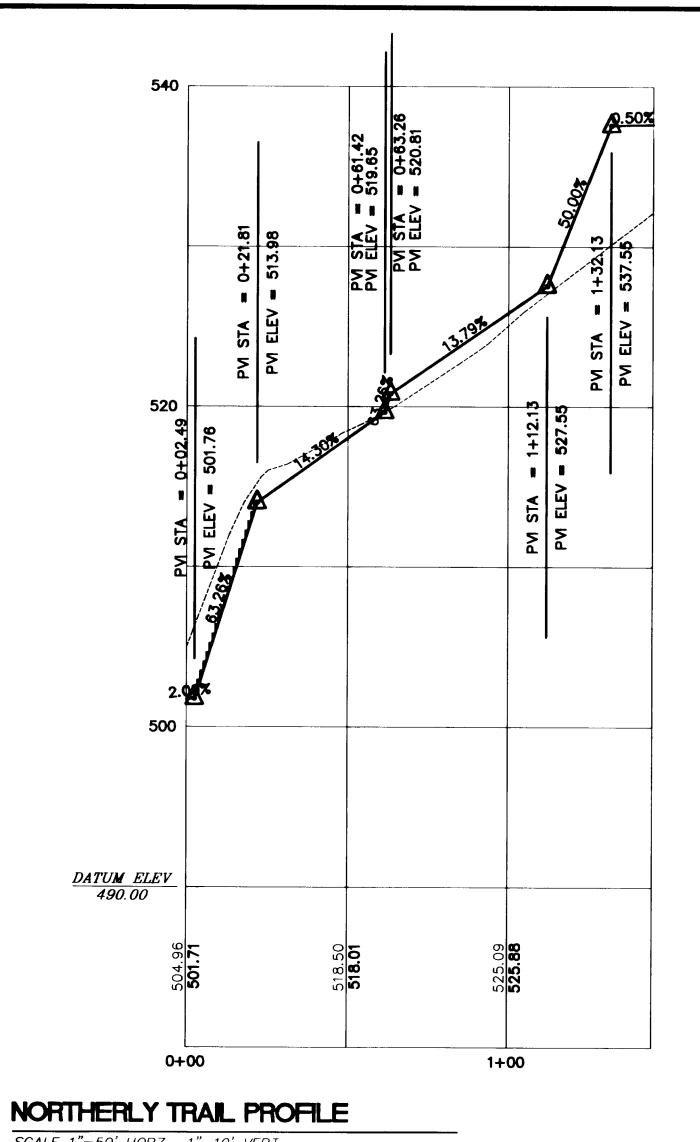
SS MH #11

PATUM ELEV A95.00

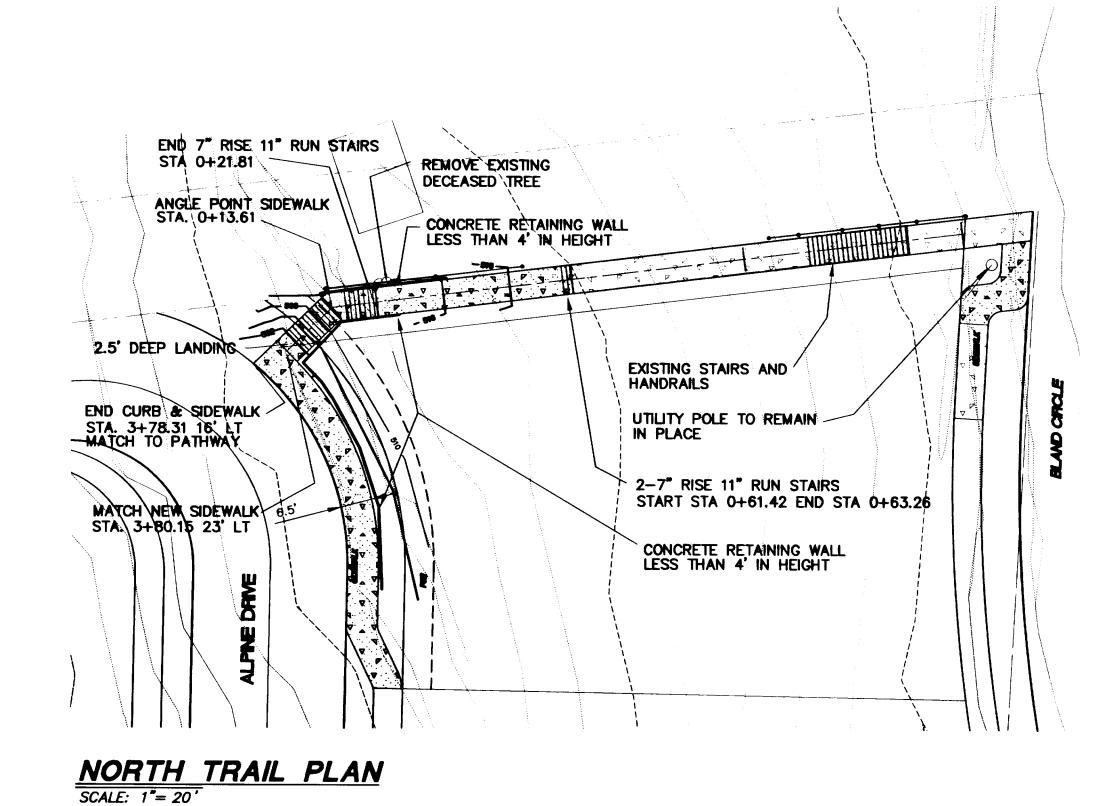
RIM 507.05' 507.30' STA 3+21.20 5' L SS LINE "D" STA 0+00 I.E. IN 500.95 E 501.12' I.E. OUT 500.75 W NOTE: REMOVE 3.74' OF EXISTING PIPE AND CONSTRUCT MH

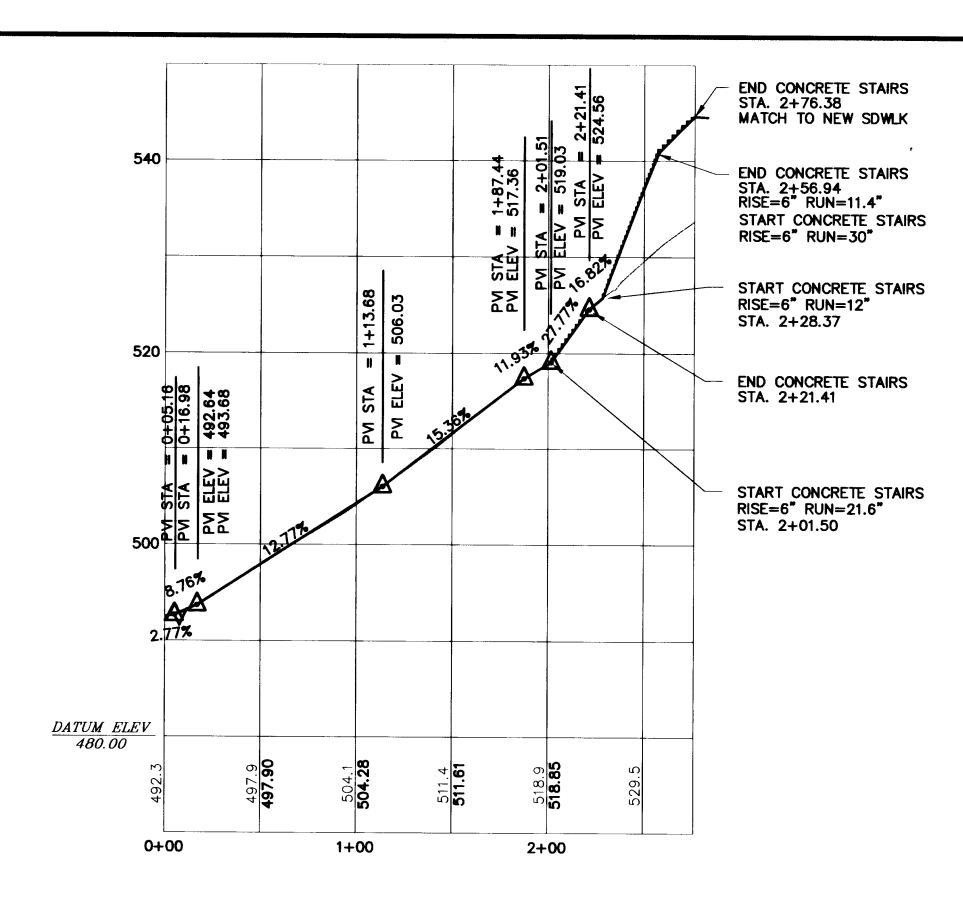
AS-BUILT

AS-BUILT



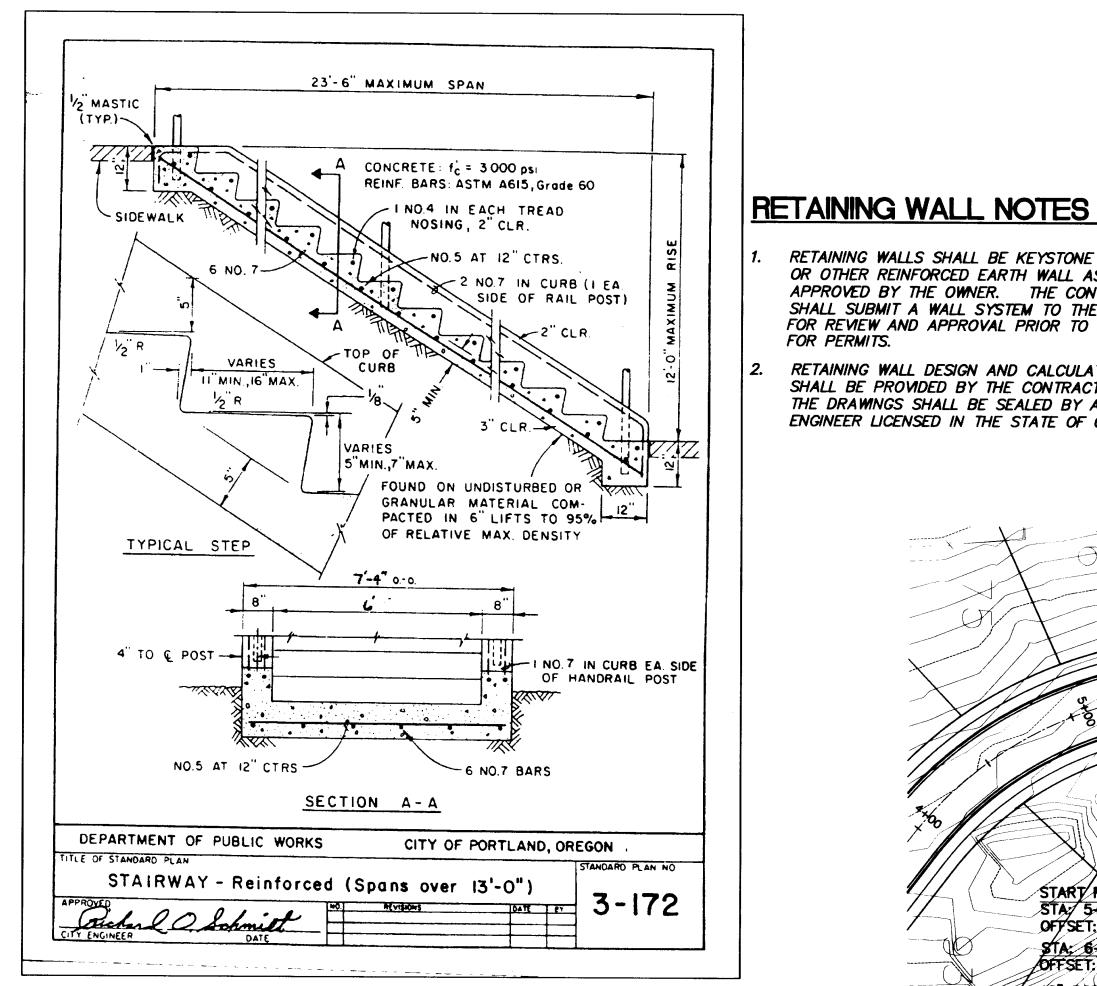
SCALE 1"=50' HORZ. 1"=10' VERT.

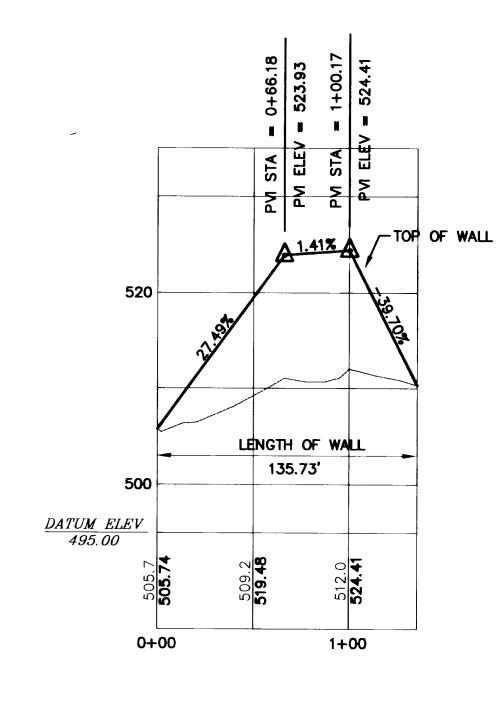


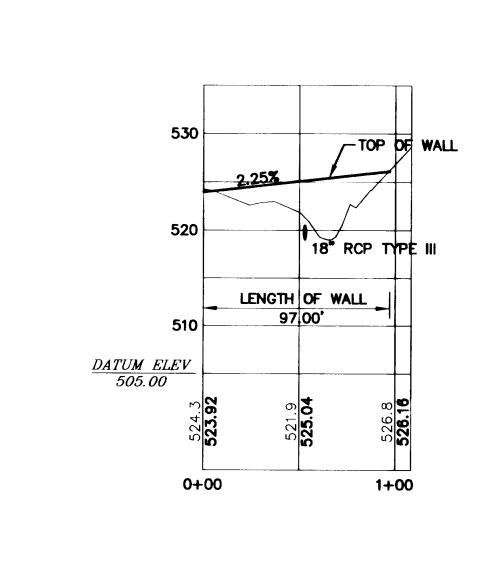


SOUTHERLY TRAIL PROFILE

SCALE 1"=50' HORZ. 1"=10' VERT.







NORTH RETAINING WALL PROFILE SCALE 1"=50' HORZ. 1"=10' VERT.

SOUTH RETAINING WALL PROFILE

SCALE 1"=50' HORZ. 1"=10' VERT.

RETAINING WALLS SHALL BE KEYSTONE

FOR PERMITS.

OR OTHER REINFORCED EARTH WALL AS

APPROVED BY THE OWNER. THE CONTRACTOR

RETAINING WALL DESIGN AND CALCULATIONS

ENGINEER LICENSED IN THE STATE OF OREGON.

SHALL BE PROVIDED BY THE CONTRACTOR.

SHALL SUBMIT A WALL SYSTEM TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO SUBMITTING

THE DRAWINGS SHALL BE SEALED BY A PROFESSIONAL

THE RESERVE OF THE PARTY OF THE

AS-BUILT THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS AND PERFORMING SURVEY MEASUREMENTS OF PUBLIC UTILITIES

CONSTRUCTION NOTES:

START SIDEWALK TRANSITION STA: 6+60.90 OFFSET: 22.00 L AS-BUILT SIDEWALK AT CURB

STA: 6+64.83 OFFSET: 16.00 L

START SIDEWALK TRANSITION STA: 7+05.28 OFFSET: 16.00 L

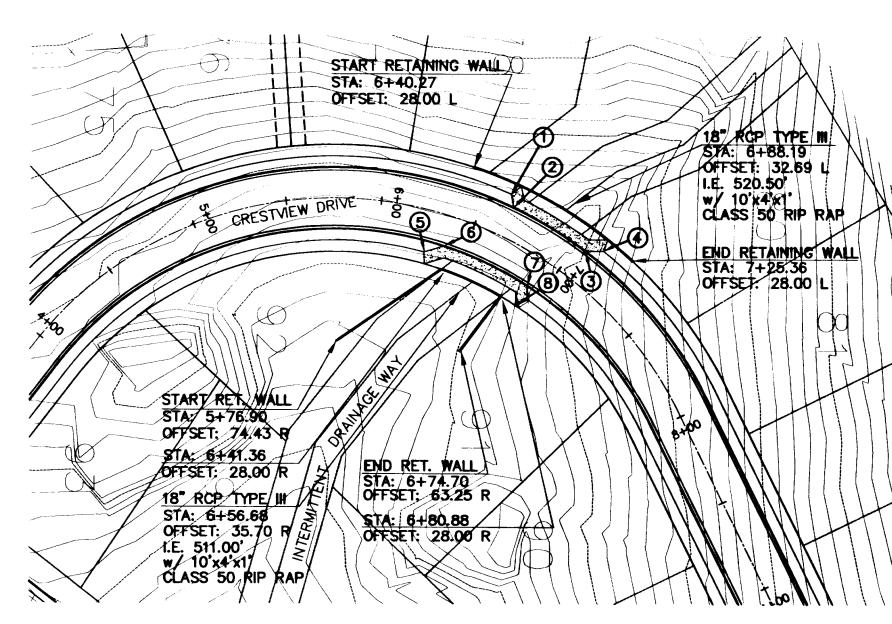
SIDEWALK AT R-O-W STA: 7+00.15 OFFSET: 22.78 R

START SIDEWALK TRANSITION STA: 6+28.41 OFFSET: 22.00 R

SIDEWALK AT CURB STA: 6+38.53 OFFSET: 16.00 R

START SIDEWALK TRANSITION STA: 6+90.97 OFFSET: 16.00 R

SIDEWALK AT R-O-W STA: 6+95.30 OFFSET: 22.00 R



RETAINING WALL PLAN

SCALE 1'=50'

REVISIONS



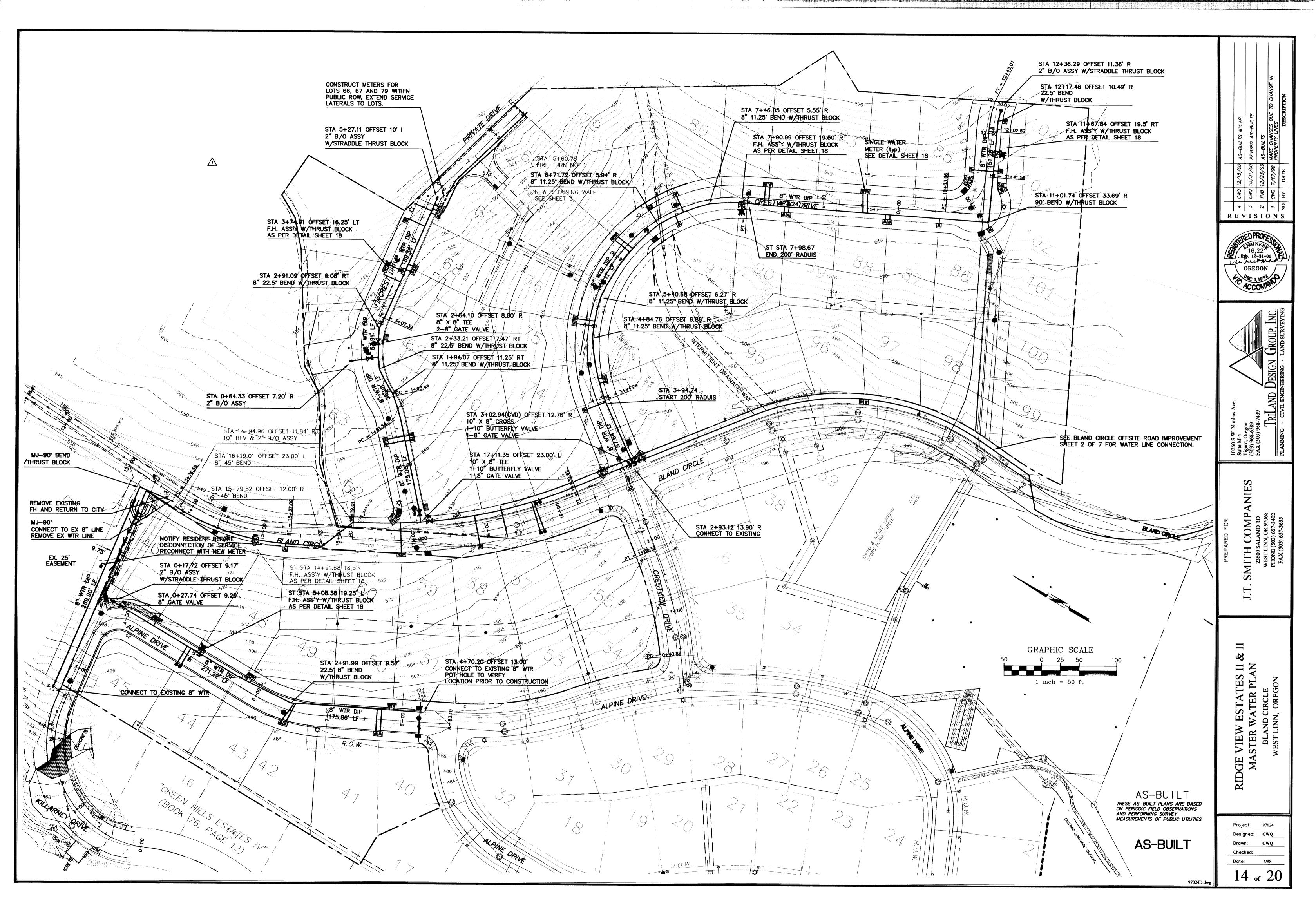
TRILAND DESIGN

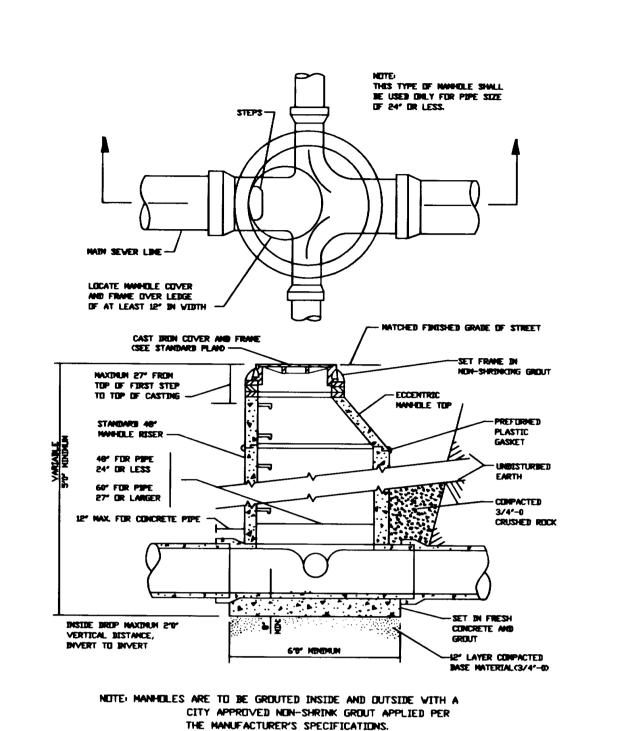
SMITH COMP A 23600 SALAMO ROAD WEST LINN, OR 97068 (503) 657-3402 (503) 657-3635

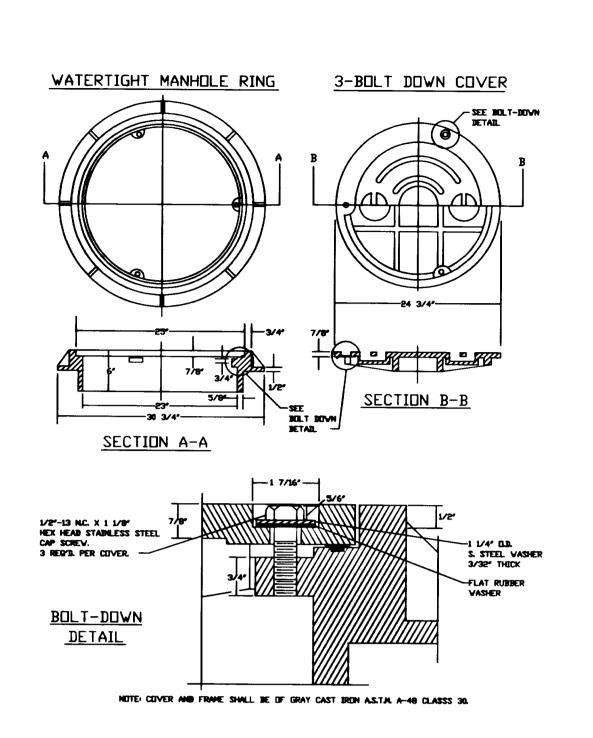
E VIEW ESTATES II & I
TAINNING WALL PLAN
BLAND CIRCLE
WEST LINN, OREGON RIDGE RETA

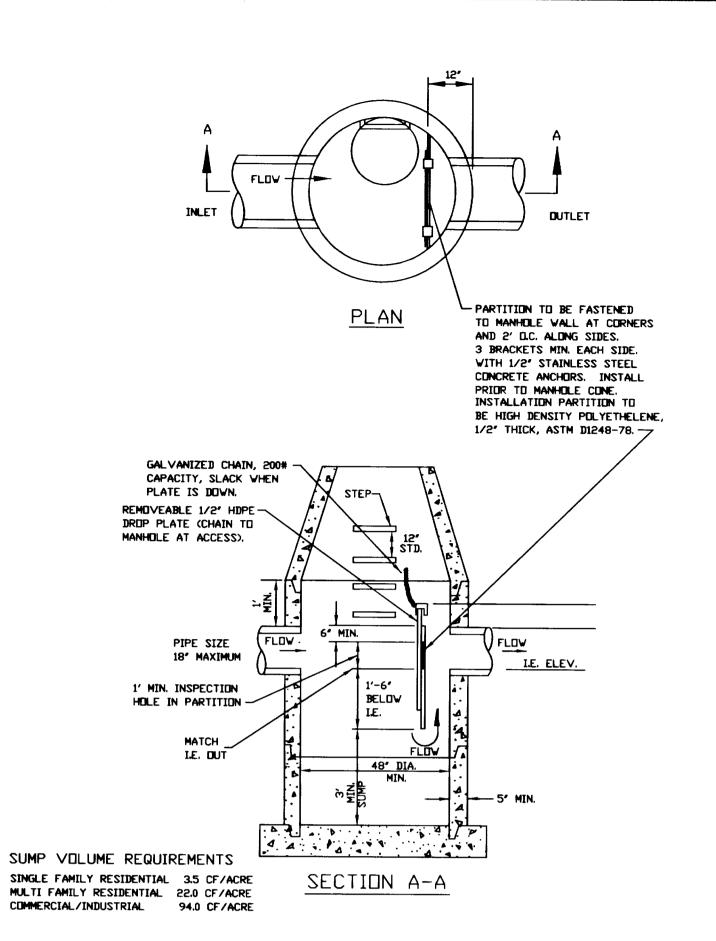
Project 97024 Designed: SBT Drawn: SBT Checked: Date: 4/98 13 of 20

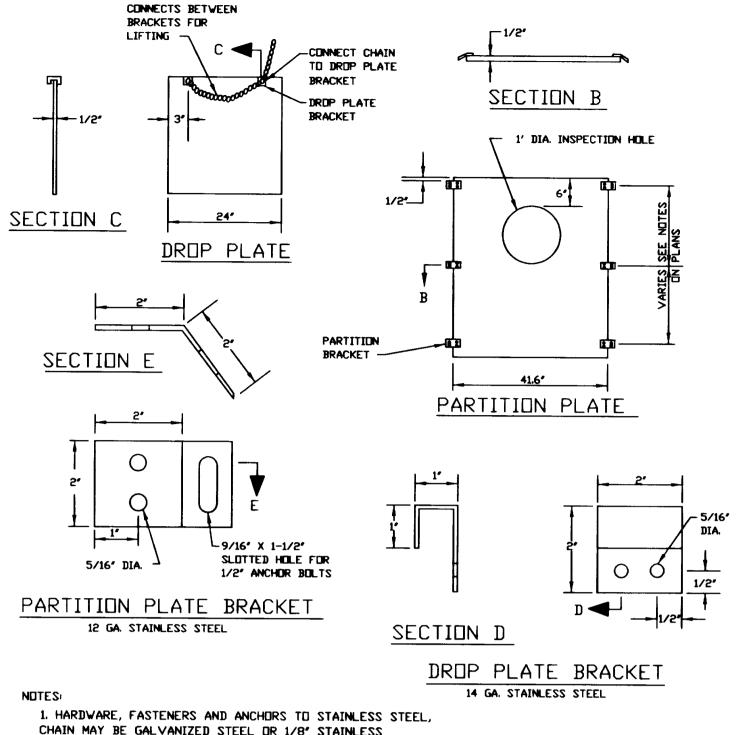
97024D1.DWG











CHAIN MAY BE GALVANIZED STEEL OR 1/8' STAINLESS STEEL CABLE.

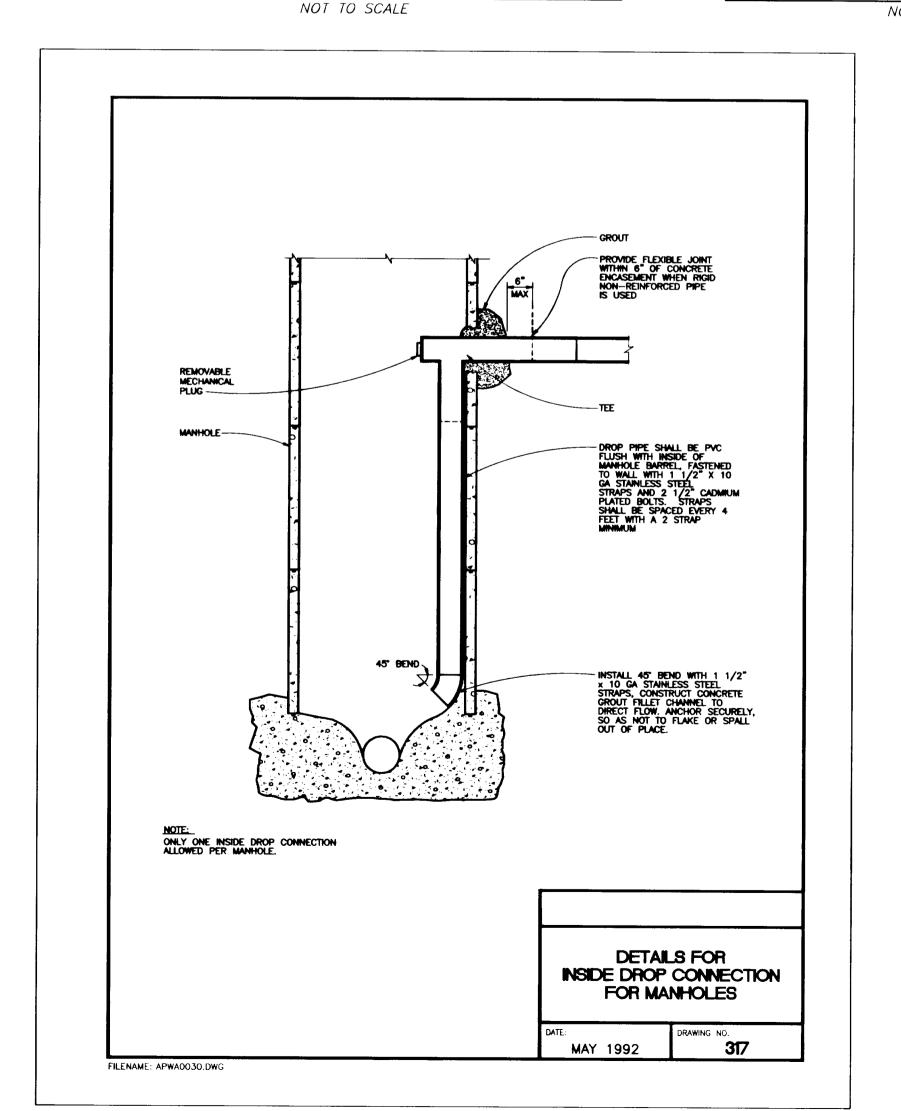
2. REMOVEABLE DROP PLATE AND PARTITION TO BE CONSTRUCTED OF HIGH DENSITY POLYETHELENE (HDPE), 1/2" THICK ASTM D1248-78 AND INSTALLED PRIOR TO MANHOLE CONE

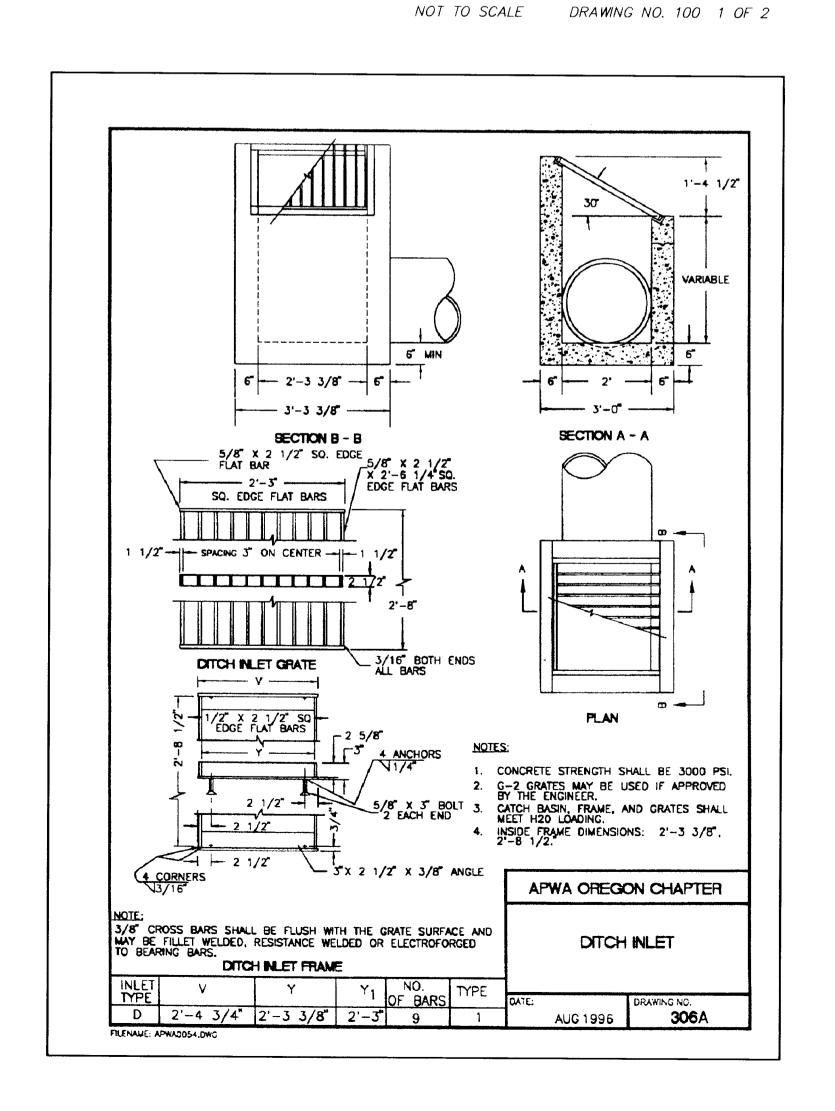
3. MANHOLE AND BASE PER MANHOLE DETAIL (DWG. 010).

TYPICAL MANHOLE SECTION

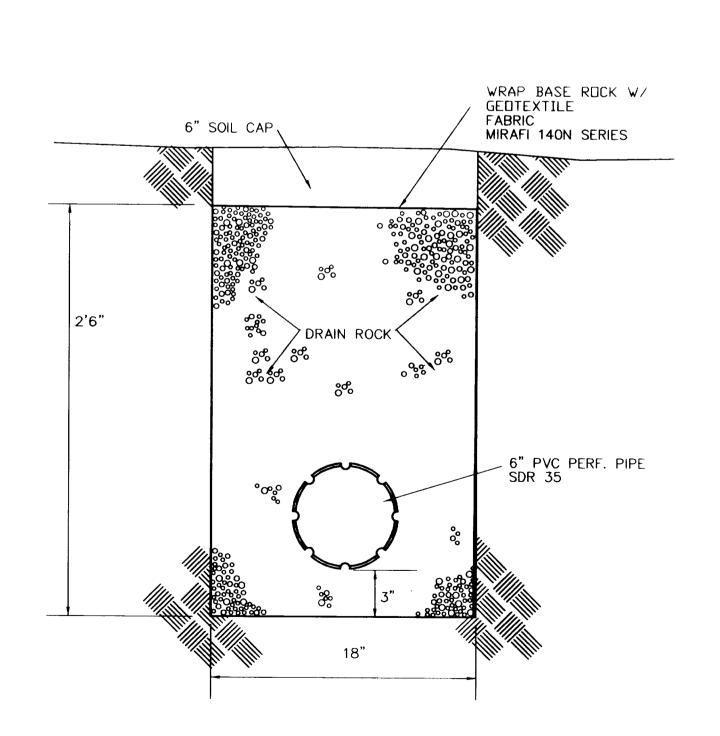
MANHOLE FRAME & COVER











SUBDRAIN TYPICAL

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AS-BUILT

16 of 20

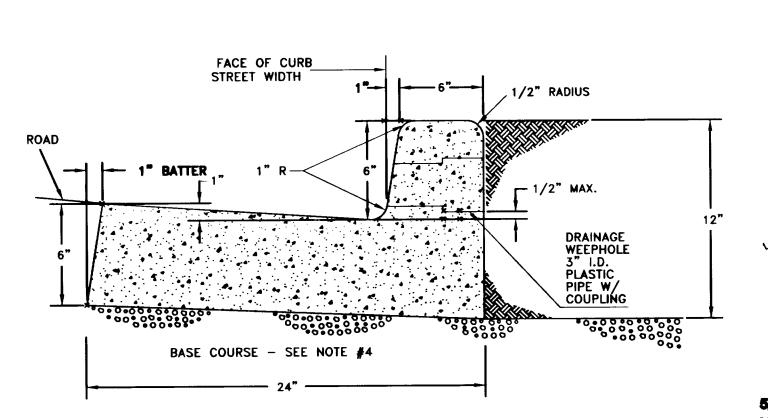
97024DET.dwg

SMITH COMPANIES

REVISIONS

VIEW ESTATES II & STORM DETAILS RIDGE

Project 97024 Designed: CWQ Drawn: SAE Checked: PJB

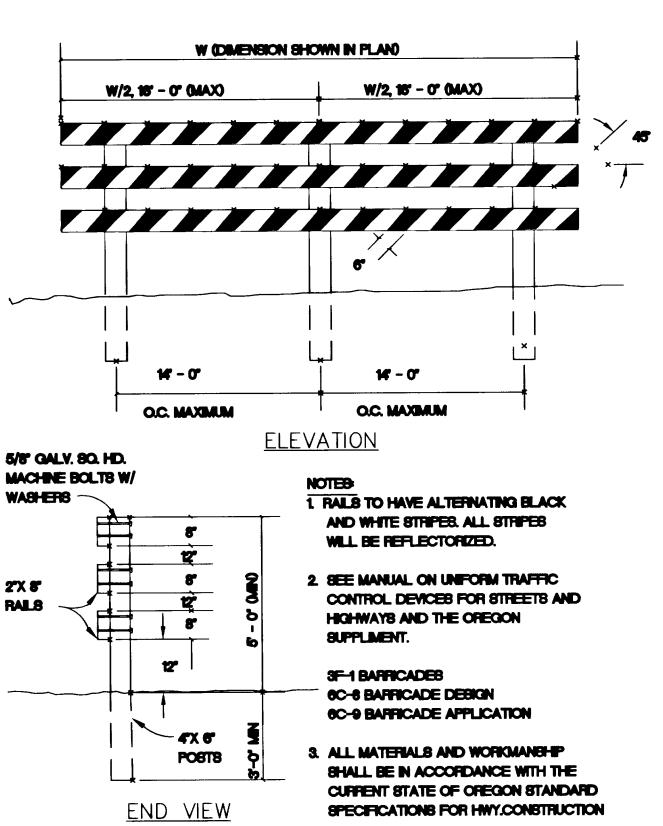


- 1. FOR USE ALONG MEDIANS, GUTTERS MAY BE REDUCED WITH PRIOR APPROVAL FROM THE CITY ENGINEER.
- 2. CONCRETE TO HAVE A BREAKING STRENGTH OF 3000 P.S.I. AFTER 28 DAYS.
- 3. CONTRACTION JOINTS
 A. TO BE PROVIDED:

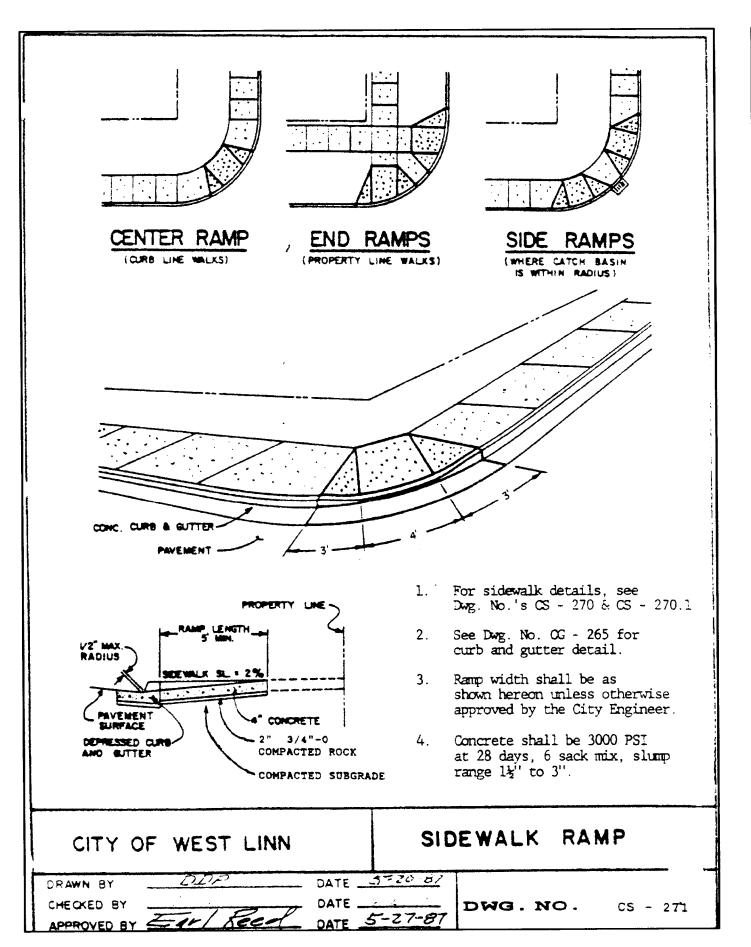
 1) AT EACH POINT OF TANGENCY OF THE CURB.
 2) AT EACH COLD JOINT.
 3) AT EACH SIDE OF INLET STRUCTURES.
 4) AT BOTH ENDS OF AN APPROACH.
 B. SPACING TO BE NOT MORE THAN 15 FEET.
 C. THE DEPTH OF THE JOINT SHALL BE AT LEAST 1 1/2".
- 4. BASE ROCK 1 1/2" MINUS, 95% COMPACTION.
 ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURE OR 4 INCHES,
 WHICHEVER IS GREATER.
- 5. DRAINAGE BLOCK -3" DIAMETER PLASTIC PIPE
 A. DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE BY THE FOLLOWING: 1) CORE DRILLING.
 2) VERTICAL SAW CUT OF CURB 18" EACH SIDE OF DRAIN & REPOURED TO FULL DEPTH OF CURB.

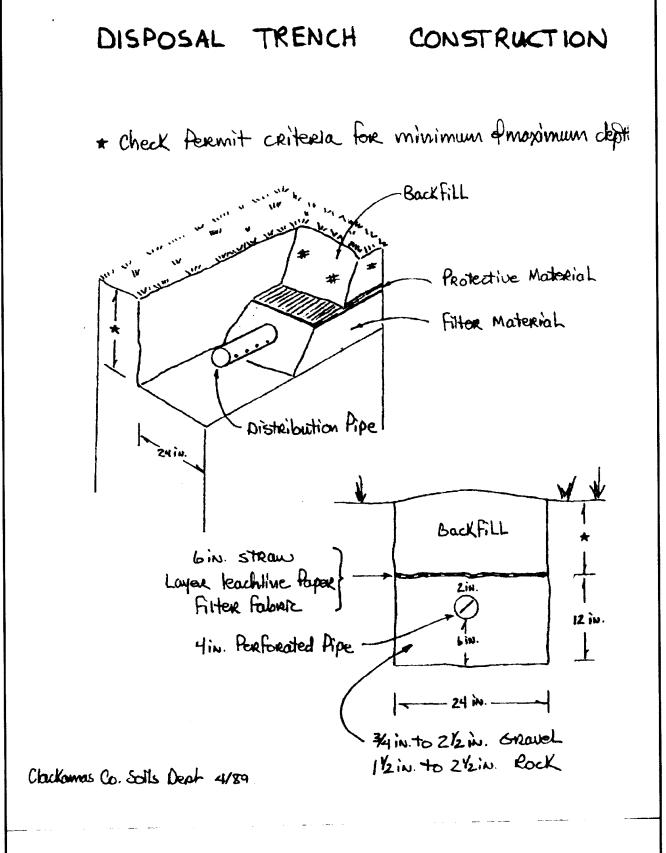
CURB AND GUTTER

NOT TO SCALE

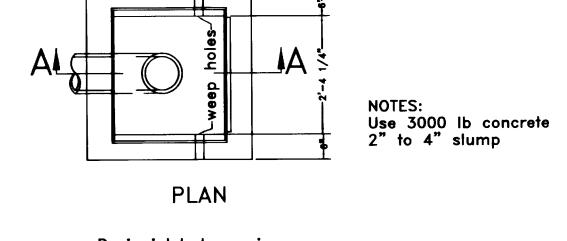


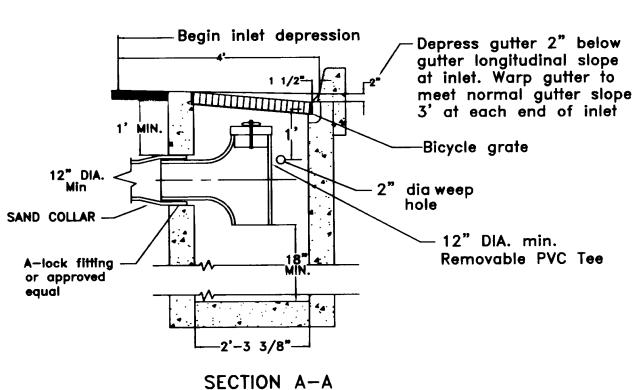
STREET BARRICADE, TYPE III NOT TO SCALE





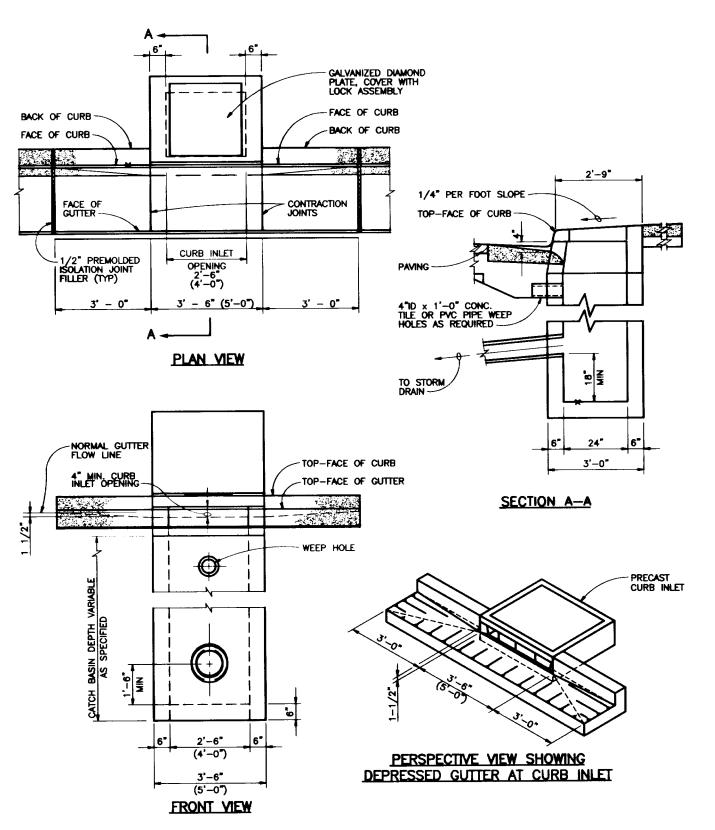






- Trapped Catch Basins required in parking lots; use either elbow or baffles (see drawing No SWM-0003).
 - GB-2 Catch Basin required.
 GB & GB-1 Catch Basins not acceptable.

TRAPPED CATCHBASIN, ELBOW NOT TO SCALE



1. ALL FABRICATED METAL PARTS SHALL BE HOT--DIPPED GALVANIZED AFTER FABRICATION.

2. CONCRETE SHALL BE CLASS 3000. 3. FOR STEEP GRADES USE STD. PRECAST INLET WITH 4'-0" OPENING OR TWO 2'-6" OPENING INLETS.

4. CURB INLET BASE MAY BE PRECAST OR CAST-IN-PLACE.

SOAKAGE TRENCH FOR RAIN DISPOSAL PERFORATED PIPE FILTER FABRIC OR STRAW OVER PIPE CLENGTA — 10'-20'+
DEPENDING ON
ROOF PREA NOTES SIZE OF RIPE WHITE PVE-DWV DEPENDS OF ROOF CAST IRON AREA - THIS APPLICATION 1004 PERMISTABLE IF OTHER APPROVED MEADS OF DISPOSAL IS IMPOSSEBLE.

AS-BUILT

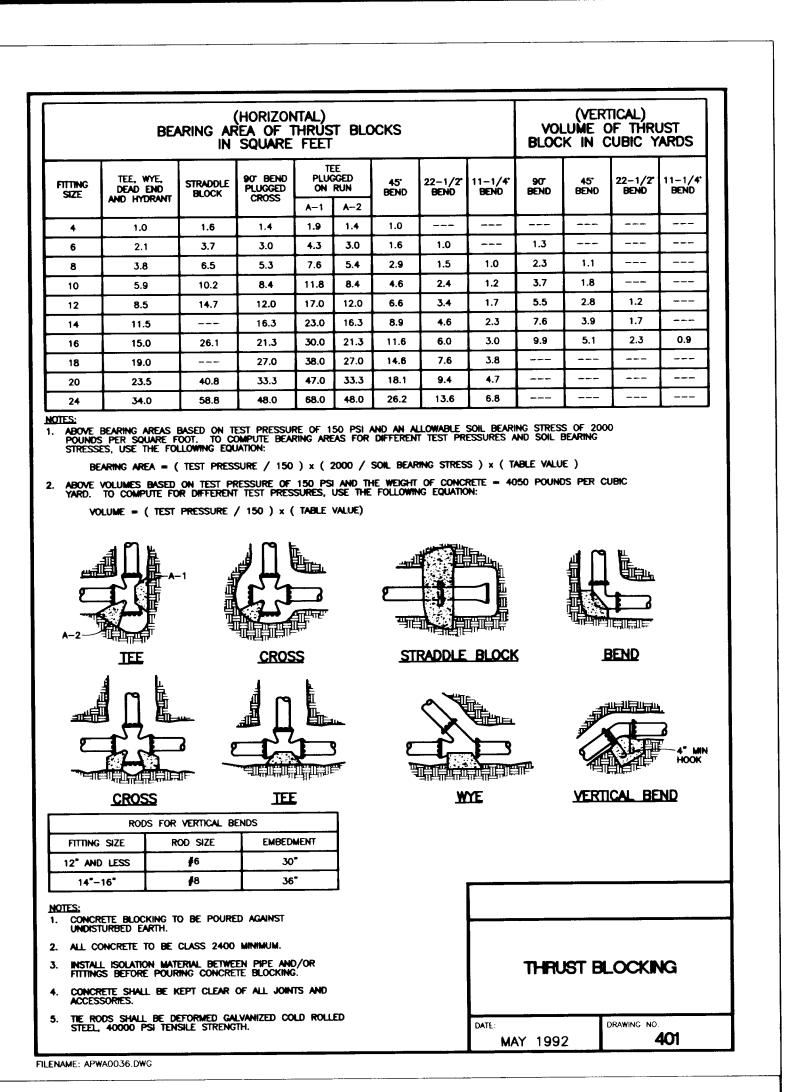
THESE AS—BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS AND PERFORMING SURVEY MEASUREMENTS OF PUBLIC UTILITIES

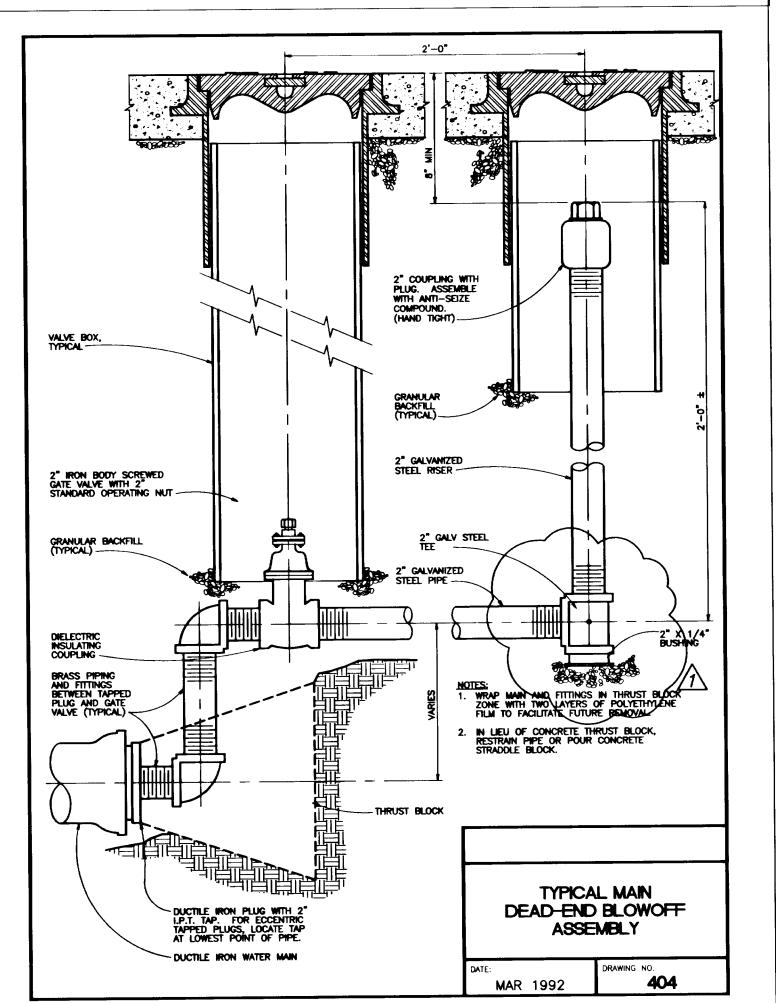
REVISIONS

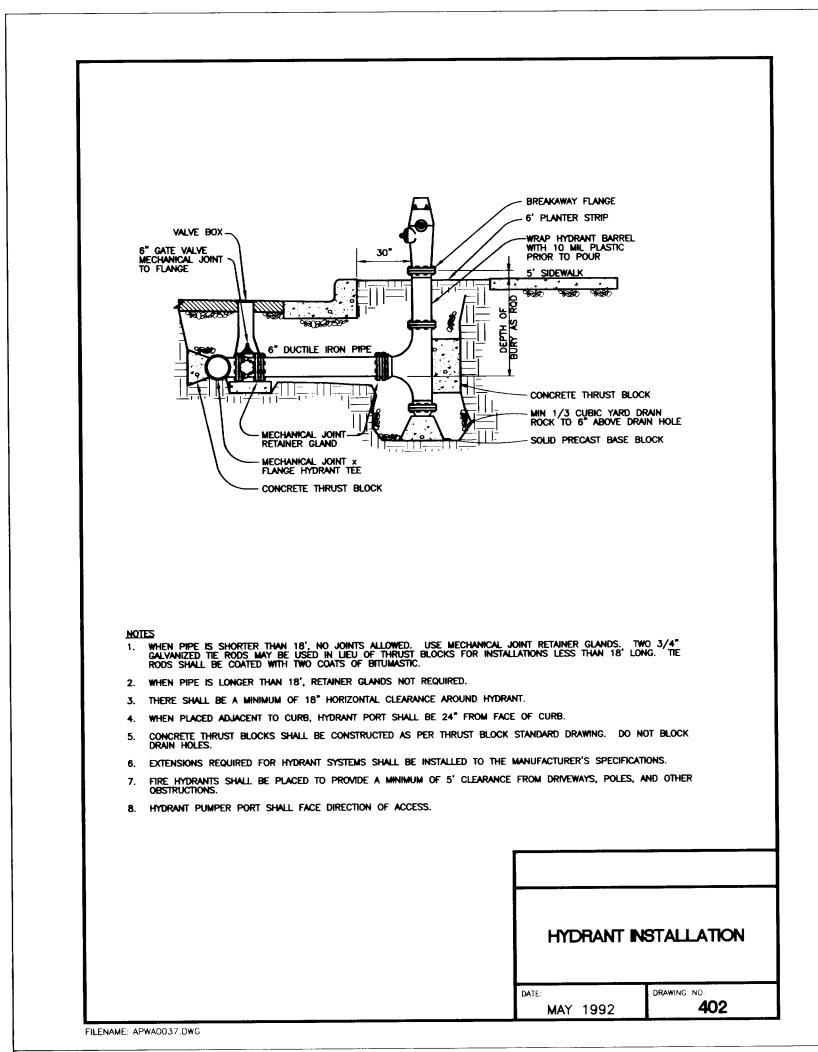
VIEW ESTATES II & ORM & ROAD DETAILS BLAND CIRCLE WEST LINN, OREGON RIDGE VIEW STORM & R

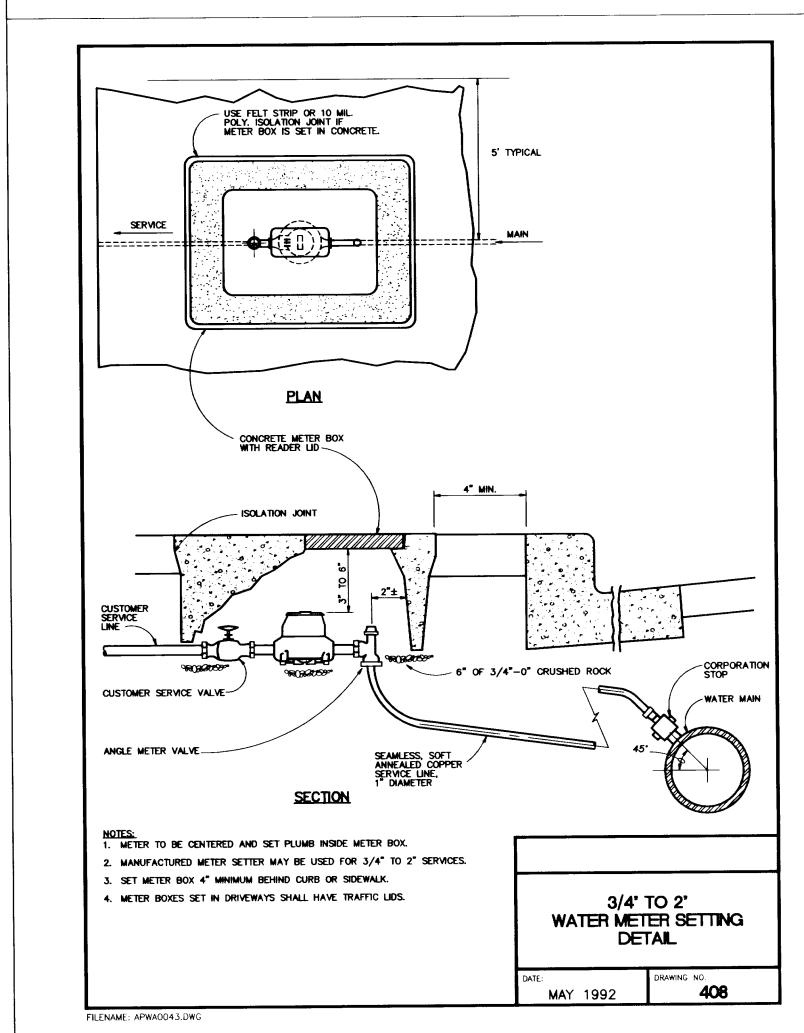
Project 97024 Designed: CWQ Drawn: SAE Checked: PJB

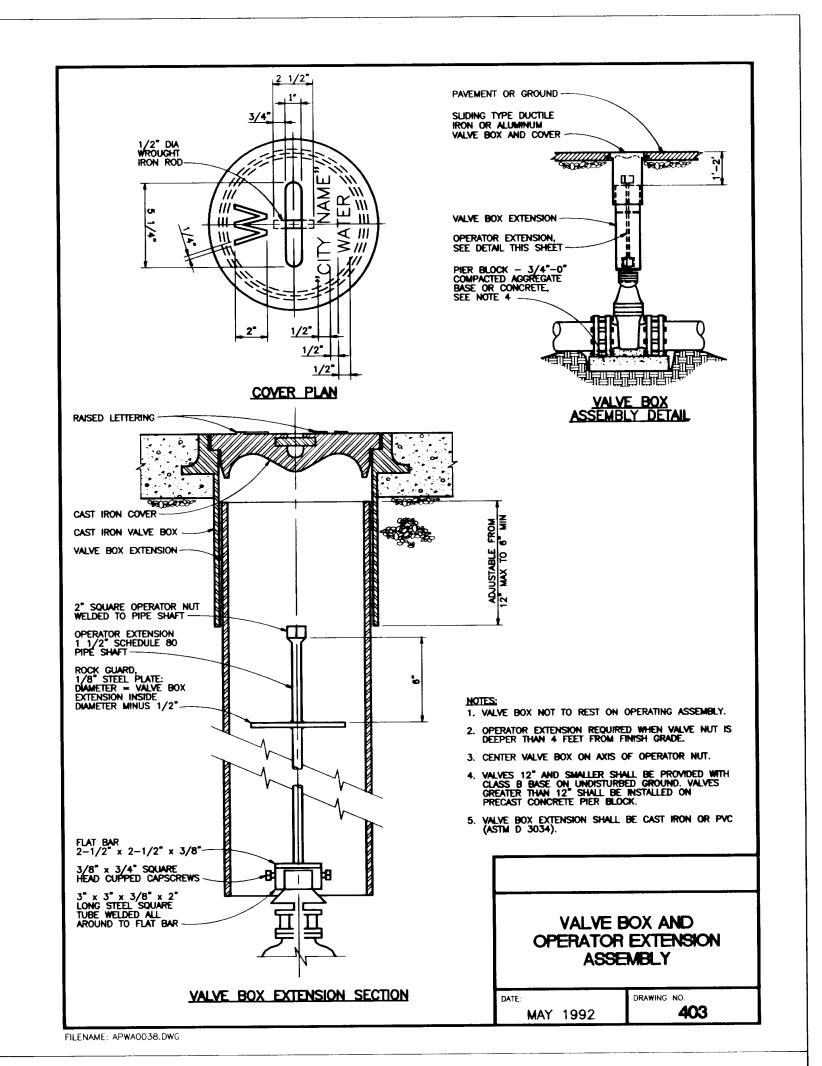
 $17 \ _{\rm of} \ 20$

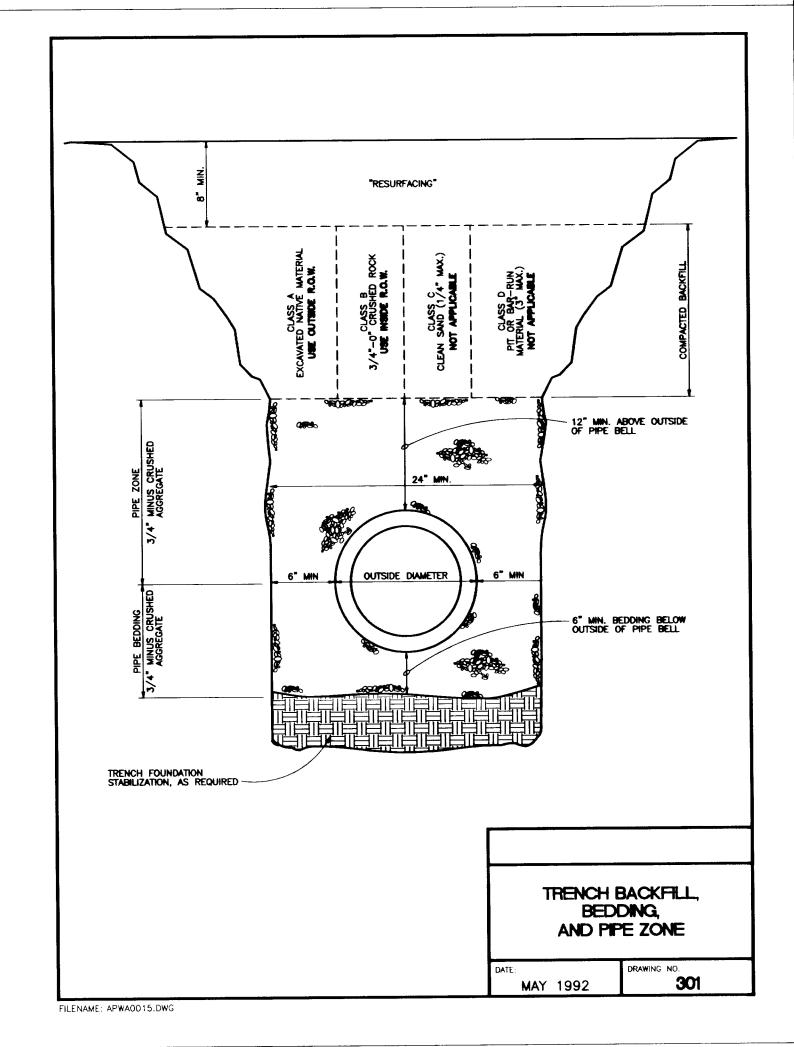












AS-BUILT THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS AND PERFORMING SURVEY MEASUREMENTS OF PUBLIC UTILITIES

AS-BUILT

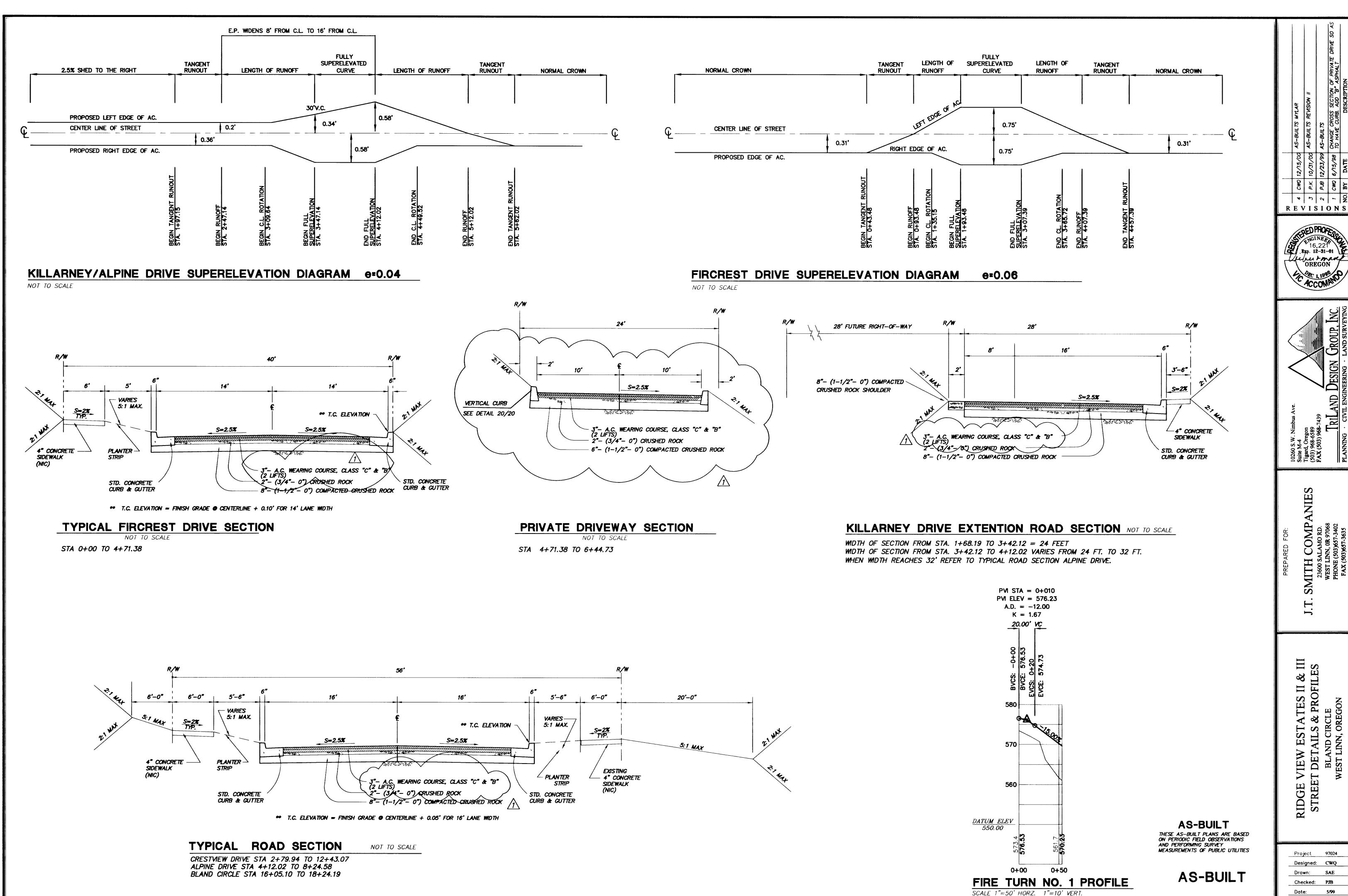
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ANIES

REVISIONS

RIDGE WA

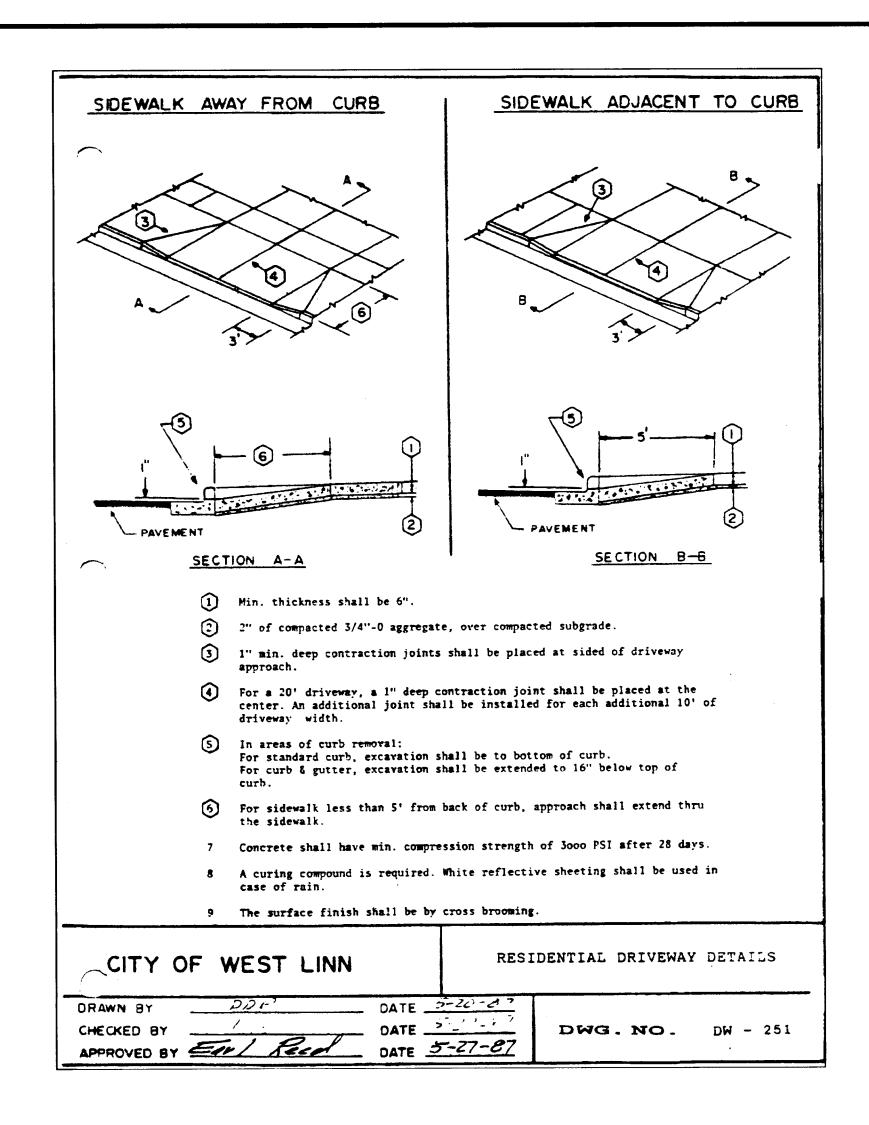
Project 97024 Designed: CWQ Drawn: SAE Checked: PJB

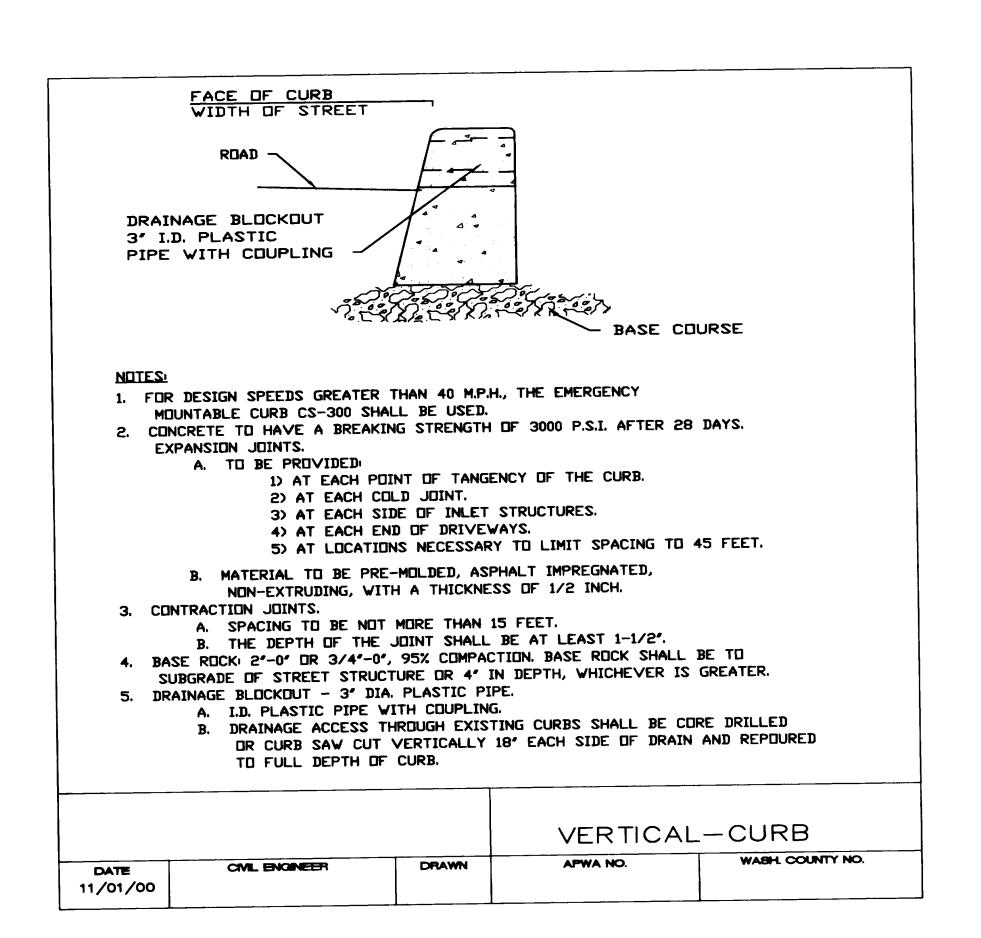


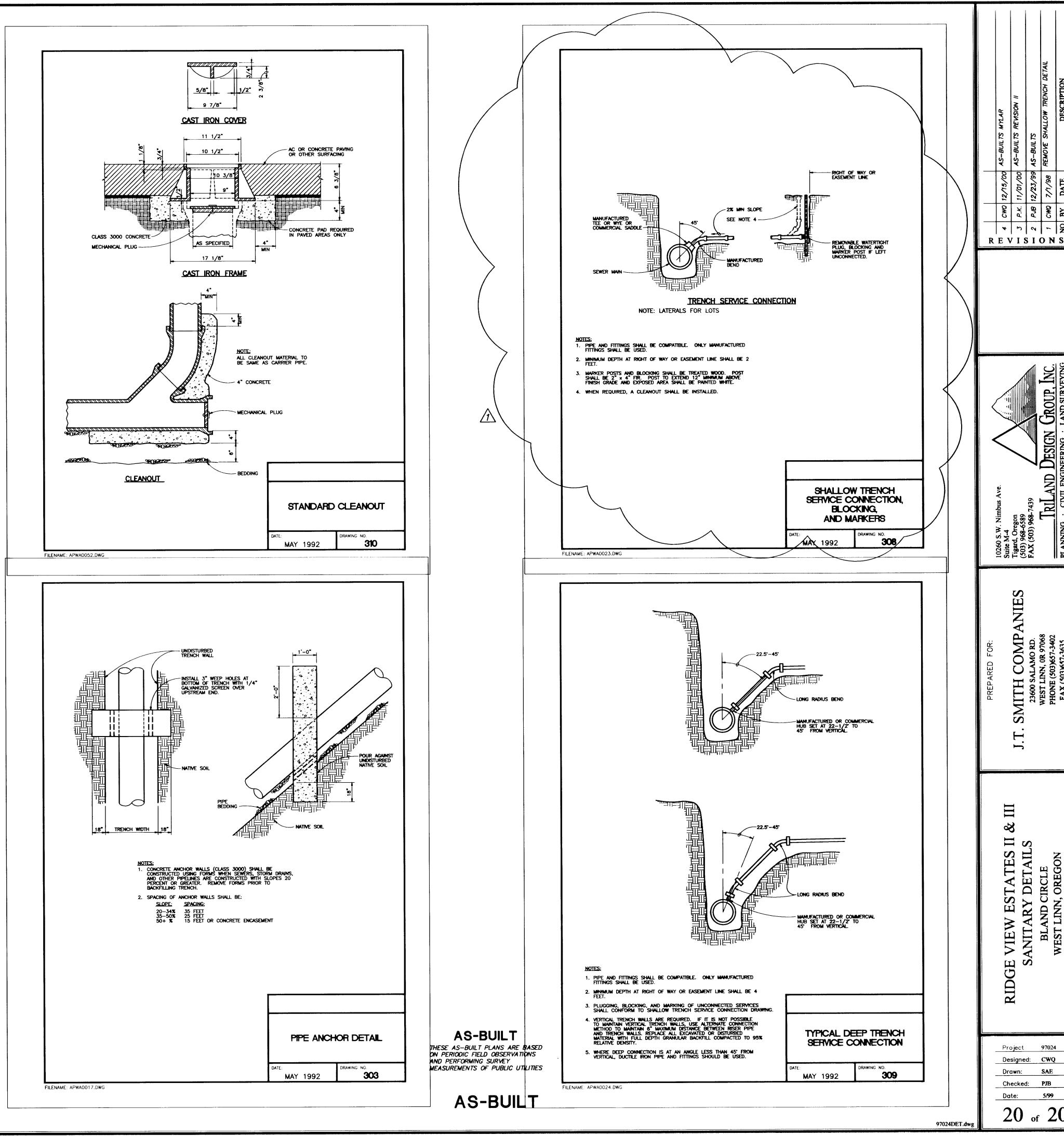
RIDGE VIEW ESTATES II & III
STREET DETAILS & PROFILES
BLAND CIRCLE
WEST LINN, OREGON

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Project 97024

Designed: CWQ

Drawn: SAE

Checked: PJB