VISTA RIDGE ESTATES SUBDIVISION

WEST LINN, OREGON

GENERAL NOTES:

1. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE CITY OF WEST LINN DESIGN STANDARDS, O.S.H.D. AND A.P.W.A. OREGON CHAPTER SPECIFICATIONS.
2. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS, PRIOR TO CONSTRUCTION AND SHALL ARRANGE FOR THE RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
3. CONTRACTOR TO 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.
5. 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.
6. 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.
7. ALL GRADING TO CONFORM TO THE PROJECT SOILS REPORT TITLED " GEOTECHNICAL EXPLORATION AND REPORT, PROPOSED VISTA RIDGE ESTATES SUBDIVISION, WEST LINN, OREGON" PREPARED BY RZA AGRA, INC. ENGINEERING & ENVIRONMENTAL SERVICES. DATED AUGUST 17, 1993.

GENERAL EROSION CONTROL NOTES:

1. APPROVAL OF THIS EROSION/SEDIMENTATION 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/LANDSCAPING IS ESTABLISHED.
3. THE ESC FACILITIES SHOWN 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 THE 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.
9. CUT AND FILL SLOPES SHALL BE GROOVED BY DRIVING A CRAWLING TRACTOR AND CUTTING FURROWS ALONG SLOPE CONTOURS TO CATCH RAIN WATER AND PROVIDE COVERAGE OF FERTILIZER AND SEED.

ROAD & STORM SEWER NOTES:

1. ALL WORK AND MATERIALS TO CONFORM TO 1990 EDITION OREGON CHAPTER A.P.W.A. AND THE CITY OF WEST LINN DEPT. OF PUBLIC WORKS DESIGN STANDARDS.
2. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES PRIOR TO STARTING CONSTRUCTION.
3. CONTRACTOR SHALL NOTIFY KAMPE ASSOCIATES, INC., AND THE CITY OF WEST LINN DEPARTMENT OF ENGINEERING 48 HOURS BEFORE STARTING CONSTRUCTION, OR 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS. CONTRACTOR SHALL NOTIFY KAMPE ASSOCIATES, INC., OF ANY SHUTDOWNS, SO AS TO ELIMINATE UNNECESSARY INSPECTION TIME.
4. ALL CONCRETE MANHOLES SHOWN ON THE PLAN ARE 48 INCHES MINIMUM DIAMETER AND CONFORM TO CITY OF WEST LINN STANDARDS. MANHOLE EXTENSION RINGS SHALL BE LIMITED TO A MAXIMUM OF TWELVE INCHES TOTAL HEIGHT.
5. CONCRETE CULVERT PIPE SHALL BE ASTM C14, "CLASS 3", NON-REINFORCED CONCRETE PIPE. PVC PIPE SHALL CONFORM TO ASTM 3034, SDR 35 SPECIFICATIONS. CAP SHALL CONFORM TO ASTM 305.2.02.
6. EXCESS EXCAVATION TO BE SPREAD AND COMPACTED EVENLY ON LOTS, AS DIRECTED BY OWNER. VEGETATION AND TOPSOIL TO BE STRIPPED OF FILL AREAS, PRIOR TO FILLING. (95% COMPACTION, AASHTO T99).
7. ALL TRENCH EXCAVATION SHALL CONFORM TO A.P.W.A. DIVISION III, SECTION 301.1.01, AND SHALL BE UNCLASSIFIED. ALL EXCESS MATERIAL FROM THE TRENCH EXCAVATION SHALL BE DISPOSED OF ON-SITE.
8. PIPE BEDDING SHALL CONFORM WITH GRANULAR BEDDING AND BACKFILL REQUIREMENTS OF A.P.W.A. DIVISION III, SECTION 301.2.02 AND SHALL BE 3/4"-0" CRUSHED ROCK.
9. TRENCHES WITHIN THE RIGHT-OF-WAYS SHALL BE "CLASS B" BACKFILL, WITH SELECT GRANULAR MATERIAL CONFORMING TO CITY OF WEST LINN STANDARDS AND SHALL BE 3/4"-0" CRUSHED ROCK.
10. COMPACTION SHALL BE PER A.P.W.A. DIVISION III, SECTION 301.3.07. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE REQUIRED COMPACTION.
11. TRENCH BACKFILL OUTSIDE OF PAVED AREAS MAY BE EXCAVATED TRENCH MATERIAL, CONFORMING TO "CLASS A", PER CITY OF WEST LINN STANDARDS.
12. MATERIAL IN SOFT SPOTS WITHIN THE ROADWAY SHALL BE REMOVED TO THE DEPTH REQUIRED TO PROVIDE A FIRM FOUNDATION AND SHALL BE REPLACED WITH 1-/12"-0" CRUSHED ROCK. THE ENTIRE SUBGRADE SHALL BE COMPACTED TO 92% OF MAXIMUM RELATIVE DENSITY, PER AASHTO T180. MOISTURE CONTENT SHALL BE + 2% OF OPTIMUM.
13. 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.
14. ASPHALT CONCRETE PAVEMENT MIX TO BE DESIGNED FROM A MIX FORMULA APPROVED BY O.S.H.D. FOR MATERIAL USED. CONTRACTOR TO PROVIDE ENGINEER WITH CERTIFICATE OF COMPLIANCE FROM ASPHALT PAVEMENT PLANT, UNLESS OTHERWISE INDICATED.
15. ALL HOUSE SERVICE STUBOUTS TO BE A MINIMUM OF 3' INTO PROPERTY AND/OR BEYOND EASEMENT LINE AND TO BE MARKED (STORM SERVICE) WITH A 2" X 4" FOR FUTURE LOCATION. SERVICE STUBOUTS TO BE 6" DIAMETER PIPE.

SANITARY SEWER NOTES:

1. ALL WORK AND MATERIALS TO CONFORM TO 1990 EDITION OREGON CHAPTER A.P.W.A. AND THE CITY OF WEST LINN DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS.
2. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND LICENSES, PRIOR TO STARTING CONSTRUCTION.
3. CONTRACTOR SHALL NOTIFY KAMPE ASSOCIATES, INC., AND THE CITY OF WEST LINN DEPARTMENT OF ENGINEERING 48 HOURS BEFORE STARTING CONSTRUCTION OR 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS OF HOLIDAYS. CONTRACTOR SHALL NOTIFY KAMPE ASSOCIATES, IN.D, OF ANY SHUTDOWN, SO AS TO ELIMINATE UNNECESSARY INSPECTION TIME.
4. ALL CONCRETE MANHOLES SHOWN ON THE PLAN S ARE 48 INCHES MINIMUM DIAMETER AND CONFORM TO CITY OF WEST LINN STANDARDS. MANHOLE EXTENSION RINGS SHALL BE LIMITED TO A MAXIMUM OF TWELVE INCHES TOTAL HEIGHT.
5. ALL P.V.C. SEWER PIPE SHALL CONFORM TO ASTM D3034, SDR35 SPECIFICATIONS AND SHALL BE CLEARLY MARKED AS SUCH.
6. PIPE BEDDING SHALL BE AS PER A.P.W.A. DIVISION III, SECTION 301.2.02, AND SHALL BE 3/4"-0" CRUSHED ROCK.
7. TRENCH BACKFILL SHALL BE "CLASS A", PER CITY OF WEST LINN STANDARDS, ON ALL SEWER LINES OUTSIDE PUBLIC RIGHT-OF-WAYS OR OUTSIDE OF PAVED AREAS. TRENCH BACKFILL SHALL BE "CLASS B", PER CITY OF WEST LINN STANDARDS, IN ALL PUBLIC RIGHT-OF-WAY OR PAVED AREAS IN THE PROJECT.
8. TRENCH BACKFILL COMPACTION SHALL BE AS PER A.P.W.A. DIVISION III, SECTION 301.3.07. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE THE REQUIRED COMPACTION.
9. CONTRACTOR SHALL PREPARE A PRINT FOR THE ENGINEER, SHOWING AS-CONSTRUCTED DATA.
10. ALL SEWER LINES ARE TO BE AIR TESTED, PER SECTION 400.0603 OF THE CITY OF WEST LINN STANDARDS. ALL MANHOLES THAT REQUIRE HYDROSTATIC TESTING SHALL BE TESTED, IN ACCORDANCE WITH SECTION 200.0603 OF THE CITY OF WEST LINN STANDARDS.
11. ALL HOUSE SERVICE STUBOUTS TO BE A MINIMUM OF 3' INTO PROPERTY AND/OR BEYOND EASEMENT LINE AND TO BE MARKED (SANITARY SERVICE) WITH A 2" X 4" FOR FUTURE LOCATION. SERVICE STUBOUTS TO BE 4" DIAMETER PIPE.
12. ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE OTHER UTILITIES, AS REQUIRED; SUCH ADJUSTMENTS SHALL BE REVIEWED BY U.S.A., AND APPROVED PRIOR TO COMMENCING WORK.
13. ALL P.V.C. SEWER PIPE SHALL CONFORM TO ASTM D3034, SDR 35 SPECIFICATIONS AND SHALL BE CLEARLY MARKED AS SUCH.
14. ALL MANHOLES LOCATED IN UNIMPROVED EASEMENTS SHALL BE WATERTIGHT AND PROVIDED WITH TAMPER-PROOF LIDS.

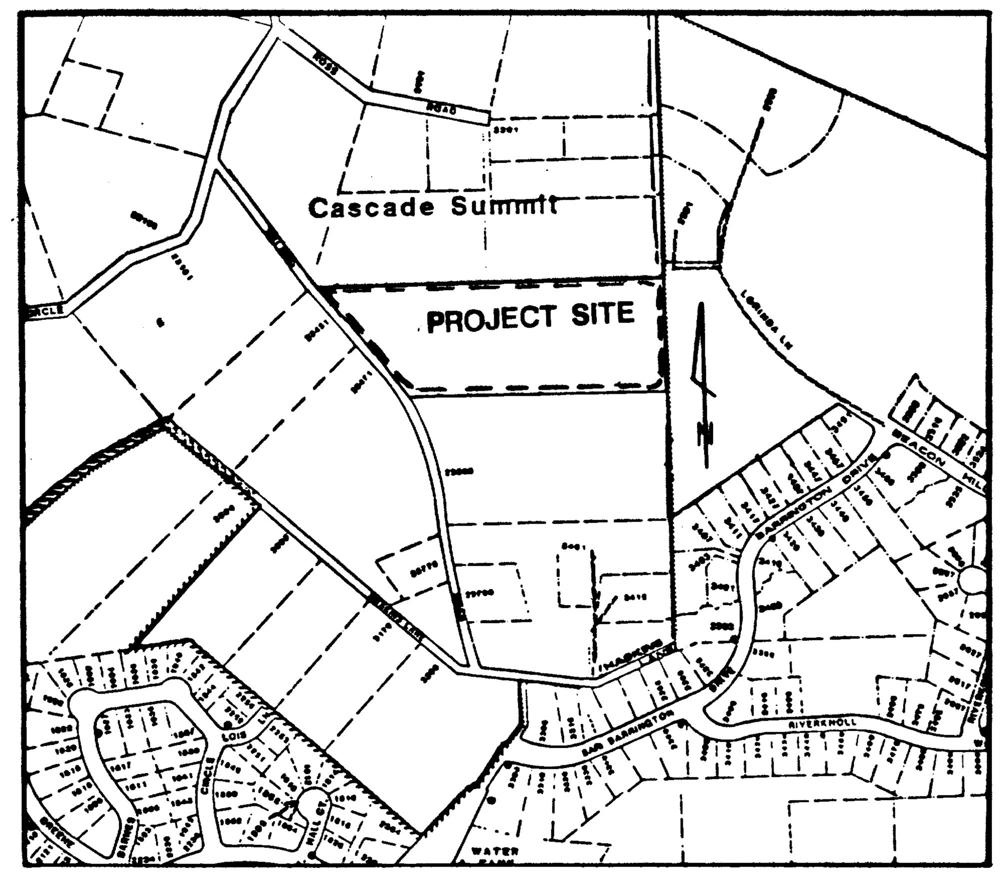
WATER SYSTEM NOTES:

1. NOTIFY CITY OF WEST LINN (656-4212), 48 HOURS PRIOR TO STARTING CONSTRUCTION, TO SET UP A PRE-CONSTRUCTION MEETING.
2. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS, PRIOR TO CONSTRUCTION AND SHALL COORDINATE WATERLINE INSTALLATION WITH OTHER UTILITIES.
3. ALL WORK AND MATERIALS SHALL COMPLY WITH CITY OF WEST LINN STANDARDS, THE OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 33, A.W.W.A. AND A.P.W.A. STANDARDS.
4. ALL WORK WILL BE INSPECTED AND APPROVED BY CITY OF WEST LINN.
5. ALL PIPE SHALL BE "TYTON JOINT", CLASS 52 DUCTILE IRON. ALL PIPE AND FITTINGS SHALL BE CEMENT LINES.
6. FIRE HYDRANT ASSEMBLY INCLUDES 8" MJX 6" FLG TEE, 6" FLG X MJ GATE VALVE, 6" MJX MJ HOLDING SPOOL, FIRE HYDRANT, 6" MJ, 5-1/4" MVO, 3 PORT (TWO 2-1/2" NST HOSE CONNECTIONS, ONE 4-1/2" NST PUMPER CONNECTION), 1-1/2" OPERATING NUT, OPEN LEFT, YELLOW COLOR, RODDA #2202.
7. FIRE HYDRANT TO BE INSTALLED UPON A PREFORMED CONCRETE BLOCK, WITH 1-1/2 CUBIC YARDS OF CRUSHED 1'1/2" DRAIN ROCK. ROCK TO BE COVERED WITH TAR PAPER TO SEPARATE IT FROM NATIVE BACKFILL.
8. ALL TEES, BENDS AND BLOW-OFF LOCATIONS TO HAVE A POURED-IN-PLACE CONCRETE THRUST BLOCK, CONFORMING TO CHART SHOWN ON DETAILS SHEET.
9. ALL WATER MAINS TO HAVE A MINIMUM COVER OF 36" FROM FINISH GRADE.
10. PIPE BEDDING SHALL BE AS PER A.P.W.A. DIVISION III, SECTION 301.2.02 AND SHALL BE 3/4"-0" CRUSHED ROCK.
11. TRENCH BACKFILL SHALL BE "CLASS B", PER CITY OF WEST LINN STANDARDS, IN ALL PUBLIC RIGHT-OF-WAYS OR PAVED AREAS IN THE PROJECT.
12. ALL SANITARY SEWER LINES WITHIN 10' LATERALLY OR 3' VERTICALLY OF WATER MAIN TO BE ENCASED IN CONCRETE.
13. ANY CROSSING OF WATER MAIN BY SANITARY SEWER SHALL BE MADE AT APPROXIMATELY 90? AND HAVE 18" OF VERTICAL CLEARANCE.
14. ALL MAINS TO BE TESTED, PER CITY OF WEST LINN STANDARDS.
15. ALL COPPER SERVICES TO BE INSTALLED BY THE CONTRACTOR, PRIOR TO PROOF ROLL OF SUBGRADE.
16. ALL MAINS SHALL BE CLEANED AND FLUSHED WITH POTABLE WATER, PRIOR TO DISINFECTION AND BACTERIOLOGICAL TESTING, IN ACCORDANCE WITH A.W.W.A. STANDARDS C601, AND PRIOR TO CONNECTION TO THE CITY WATER SYSTEM.

LEGEND

(ALL ITEMS MAY NOT BE USED – EXISTING FEATURES ARE SHADED)

Symbol	Description	Symbol	Description
•	DENOTES FOUND MONUMENT AS NOTED	CO•	PROPOSED CLEANOUT
	SEWER MANHOLE	—SS—	SEWER LINE
	STORM MANHOLE	—ST—	STORM LINE
	CATCH BASIN		PROPOSED CATCH BASIN
	IRRIGATION VALVE		PROPOSED MANHOLE
	FIRE HYDRANT		PROPOSED FIRE HYDRANT
—W—	WATER LINE		CURB
	WATER METER		RETAINING WALL
	WATER VALVE		EDGE OF PAVEMENT
—G—	GAS LINE		BRUSH/TREE LINE
	GAS METER		DITCH/CREEK
	GAS VALVE		PROPERTY LINE
—UGT—	UNDERGROUND TELEPHONE LINE		PROPOSED PROPERTY LINE
	TELEPHONE PEDESTAL		GUARDRAIL
	TELEPHONE MANHOLE		SIGN POST
	FLASHING YELLOW GROUND LIGHT		PROPOSED SIGN POST
	SIGNAL CONTROL BOX		CULVERT
	SIGNAL POLE – PEDESTRIAN CROSSING LIGHT		MAILBOX
	LIGHT POLE	—X—	FENCE
—UGP—	UNDERGROUND POWER LINE		CONCRETE GARBAGE CONTAINER
—OHP—	OVERHEAD POWER LINE		DECIDUOUS TREE
	POWER PEDESTAL		EVERGREEN TREE
	UTILITY POLE		CONCRETE PAVEMENT
	GUY ANCHOR	—F—	FILL TO CATCH POINT
R	REMOVE	—C—	CUT TO CATCH POINT
L	RELOCATE		



VICINITY MAP

SHEET INDEX

1. COVER SHEET & INDEX
2. STREET & STORM IMPROVEMENTS - PLAN
3. STREET IMPROVEMENTS - PROFILE VISTA
4. STREET IMPROVEMENTS - PROFILES COEUR D'ALENE & SOUTH ROAD
5. STORM IMPROVEMENTS - PROFILES ST-A, ST-B, ST-B1, ST-D, ST-E
6. SANITARY SEWER IMPROVEMENTS -PLAN
7. SANITARY SEWER IMPROVEMENTS - PROFILES SS-A, SS-B, SS-C, SS-D, & SS-E
8. WATER SYSTEM IMPROVEMENTS - PLAN
9. GRADING & EROSION CONTROL PLAN
10. DETAILS
11. DETAILS

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

AS BUILT

THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS. TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE REPRESENTATIONS SHOWN HEREON ARE TRUE AND ACCURATE.

REVISIONS

NO.	BY	DATE	DESCRIPTION
2	GWW	8/29/94	AS-BUILT
1	JMB	3/2/94	PER ENGINEER

Designed SBT/JMB
Drawn JMB
Checked SBT
Approved
Date 1/7/94
Scale 1"=40'

PLANNING
CIVIL ENGINEERING
LAND SURVEYING
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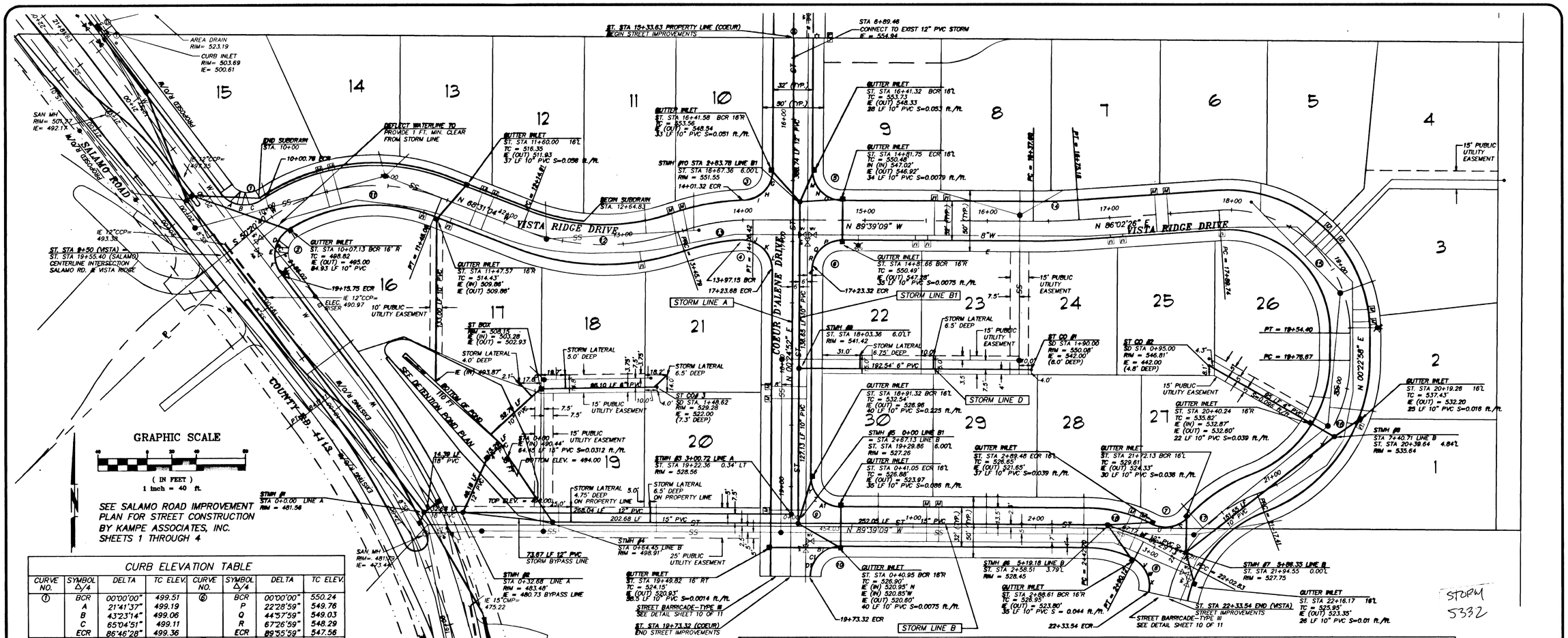
VISTA RIDGE ESTATES SUBDIVISION
COVER SHEET & INDEX

91-088

AS-BUILT

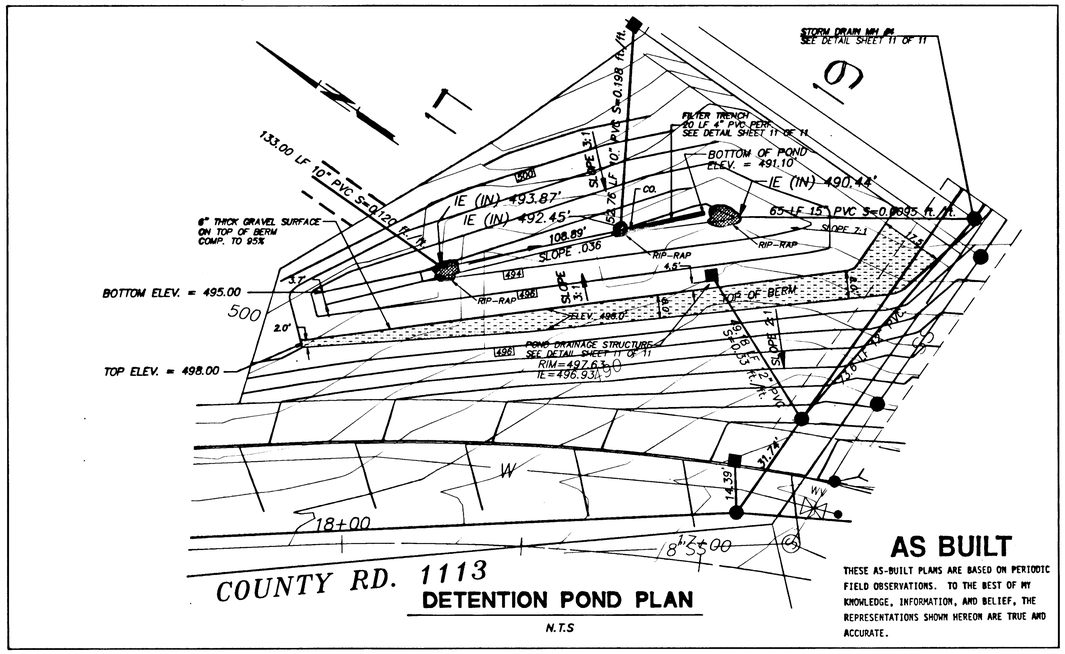


CURB ELEVATION TABLE

CURVE NO.	SYMBOL △/4	DELTA	TC ELEV.	CURVE NO.	SYMBOL △/4	DELTA	TC ELEV.
①	BCR	00°00'00"	499.51	⑥	BCR	00°00'00"	550.24
	A	21°41'37"	499.19		P	22°28'59"	549.76
	B	43°23'14"	499.06		Q	44°57'59"	549.03
	C	65°04'51"	499.11		R	67°26'59"	548.29
	ECR	86°46'28"	499.36		ECR	89°55'59"	547.56
②	BCR	00°00'00"	498.66	⑦	BCR	00°00'00"	529.37
	D	23°54'53"	498.05		S	18°38'46"	528.66
	E	47°49'46"	497.19		T	37°17'32"	527.59
	F	71°44'38"	496.31		U	55°56'18"	526.74
	ECR	95°39'31"	495.63		ECR	74°35'04"	526.66
③	BCR	00°00'00"	553.49	⑧	BCR	00°00'00"	526.69
	G	21°56'01"	552.55		V	18°57'08"	526.27
	H	43°52'02"	551.26		W	37°54'16"	525.70
	I	65°48'02"	549.92		X	56°51'23"	524.97
	ECR	87°44'03"	548.83		ECR	75°48'31"	524.12
④	BCR	00°00'00"	548.45	⑨	BCR	00°00'00"	532.39
	J	23°23'22"	549.07		Y	22°31'00"	530.90
	K	46°46'44"	548.98		Z	45°02'01"	529.13
	L	70°10'05"	548.29		A1	67°33'01"	527.38
	ECR	93°33'27"	547.53		ECR	90°04'01"	526.71
⑤	BCR	00°00'00"	553.51	⑩	BCR	00°00'00"	526.70
	M	22°31'00"	552.68		B1	22°28'59"	525.55
	N	45°02'01"	551.42		C1	44°57'59"	523.85
	O	67°33'01"	550.39		D1	67°26'59"	521.91
	ECR	90°04'01"	550.24		ECR	89°55'59"	520.41

CURB RETURN/CL CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA
①	25.00'	37.86'	23.63'	86°46'28"
②	25.00'	41.74'	27.60'	95°39'31"
③	25.00'	38.28'	24.03'	87°44'03"
④	25.00'	40.82'	26.60'	93°33'27"
⑤	25.00'	39.30'	25.03'	90°04'01"
⑥	25.00'	39.24'	24.97'	89°55'59"
⑦	25.00'	32.54'	19.04'	74°35'04"
⑧	25.00'	33.08'	19.46'	75°48'31"
⑨	25.00'	39.30'	25.03'	90°04'01"
⑩	25.00'	39.24'	24.97'	89°55'59"
⑪	150.00'	160.06'	88.60'	61°08'16"
⑫	185.00'	130.88'	68.31'	40°31'59"
⑬	185.00'	62.63'	31.62'	19°23'54"
⑭	500.00'	37.59'	18.80'	04°18'26"
⑮	100.00'	164.66'	107.88'	94°20'32"
⑯	116.85'	140.74'	80.32'	69°00'36"
⑰	116.86'	85.42'	44.72'	41°52'50"
⑱	100.00'	47.41'	24.16'	27°09'55"



DETENTION POND PLAN

N.T.S

AS BUILT

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NO.	BY	DATE	DESCRIPTION
5	SBK	10/7/94	AS-BUILT
4	CWB	8/29/94	AS-BUILT
3	JMB	5/16/94	PER CITY REVIEW / SALAMO REDESIGN
2	JMB	3/7/94	PER ENGINEER / CITY REVIEW
1	JMB	1/14/94	PER ENGINEER

REVISIONS

Designed SBT/JMB
Drawn JMB
Checked SBT
Approved
Date 1/7/94
Scale 1"=40'

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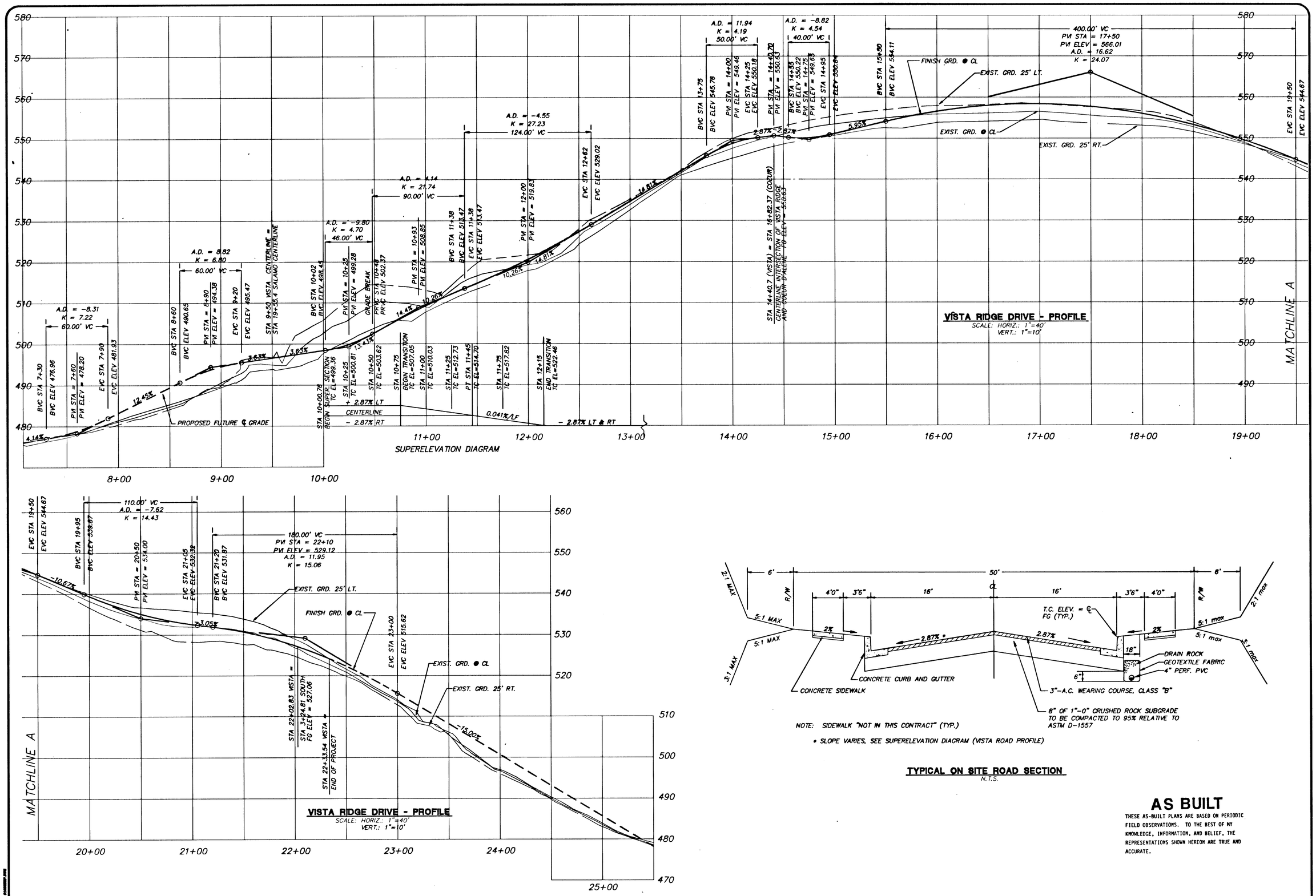
VISTA RIDGE ESTATES SUBDIVISION
STREET & STORM IMPROVEMENTS PLAN

2/11 — 91-088

AS-BUILT



NOTE: SIDEWALK "NOT IN THIS CONTRACT" (TYP.)

• SLOPE VARIES, SEE SUPERELEVATION DIAGRAM (VISTA ROAD PROFILE)

TYPICAL ON SITE ROAD SECTION
N.T.S.

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NO.	BY	DATE	DESCRIPTION
4	GHH	8/29/94	AS-BUILT
3	JMB	5/18/94	PER CITY REVIEW / SALAMO REDESIGN
2	JMB	3/4/94	PER ENGINEER / CITY REVIEW
1	JMB	1/14/94	PER ENGINEER

REVISIONS

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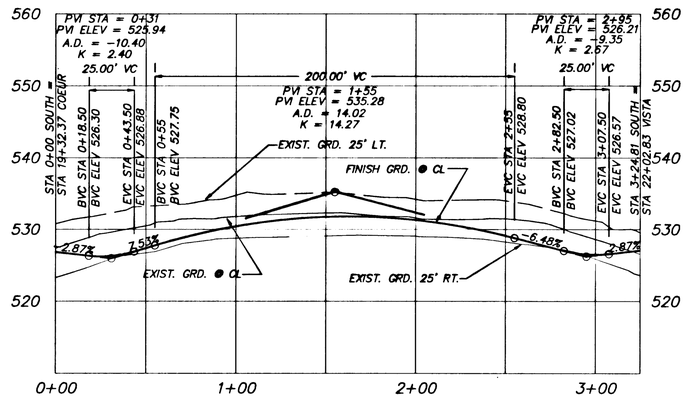
VISTA RIDGE ESTATES SUBDIVISION
ROAD IMPROVEMENTS PROFILES

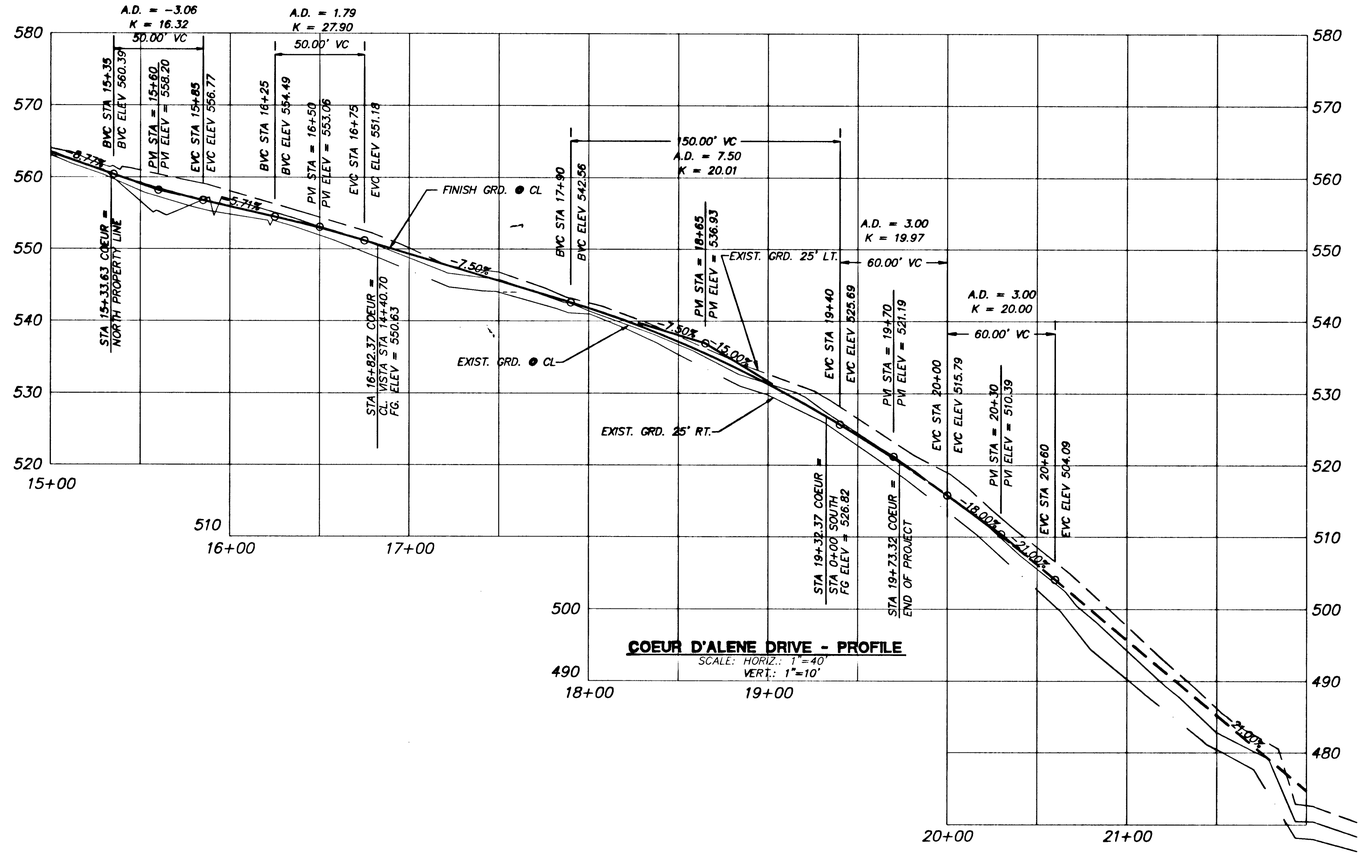
3/11
91-088

AS-BUILT



SOUTH ROAD PROFILE

SCALE: HORIZ.: 1"=40'
VERT.: 1"=10'



COEUR D'ALENE DRIVE - PROFILE

SCALE: HORIZ.: 1"=40'
VERT.: 1"=10'

AS BUILT

THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS. TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE REPRESENTATIONS SHOWN HEREON ARE TRUE AND ACCURATE.

NO.	BY	DATE	DESCRIPTION
3	KJW	8/29/94	AS-BUILT
2	JMB	3/3/94	PER ENGINEER / CITY REVIEW
1	JMB	1/14/94	PER ENGINEER

REVISIONS

Designed SBT/JMB
Drawn JMB
Checked SBT
Approved
Date 1/7/94
Scale 1"=40'

PLANNING
CIVIL ENGINEERING
LAND SURVEYING
KAMPE ASSOCIATES
209 HOLCE PKWY. BUILDING
P.O. BOX 1 LAKE OSWEGO, OREGON 97035
(503) 635-6291 FAX (503) 635-3680

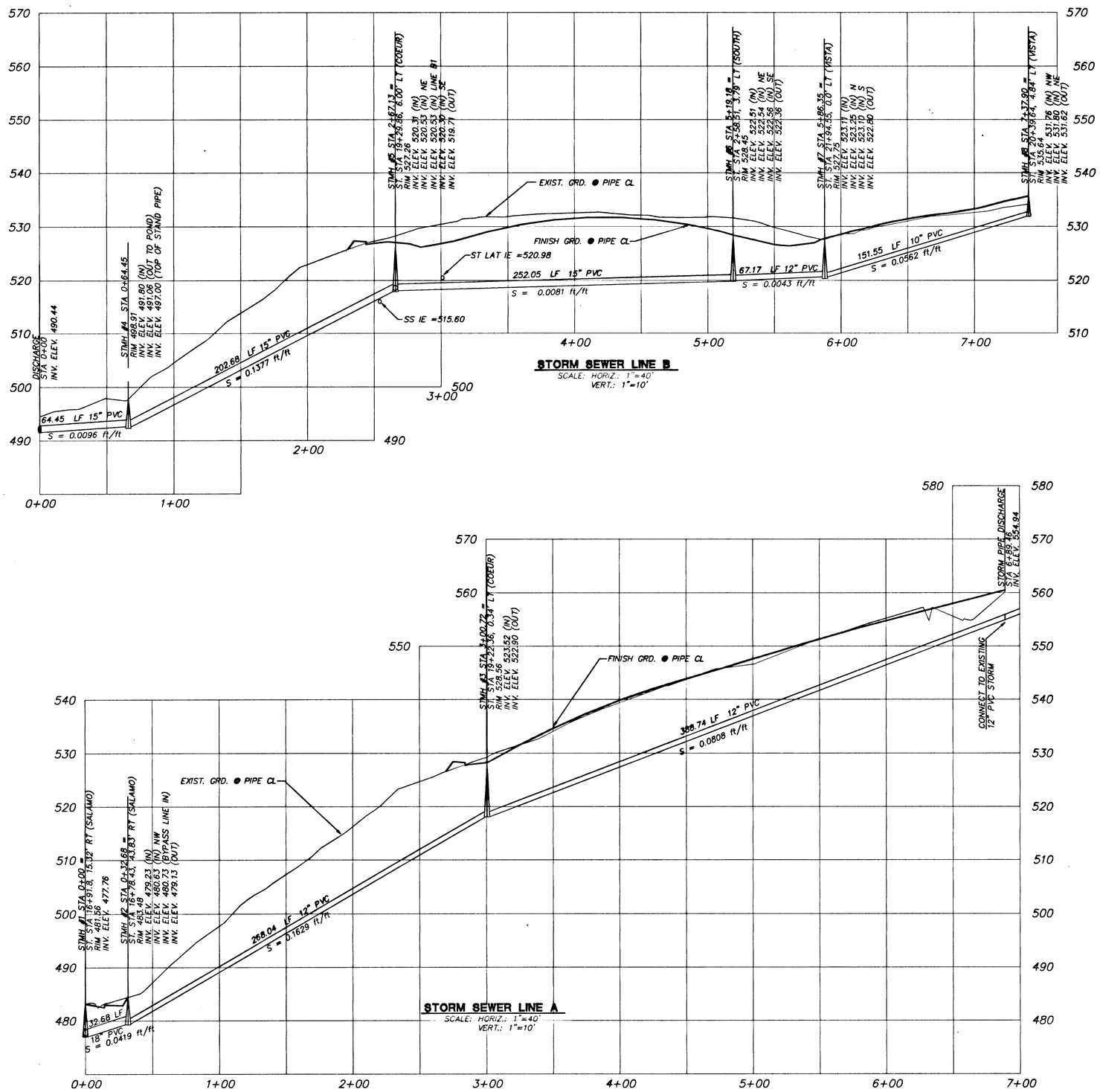
VISTA RIDGE DEVELOPMENT COMPANY
18617 SW BRYANT ROAD
LAKE OSWEGO, OREGON 97035

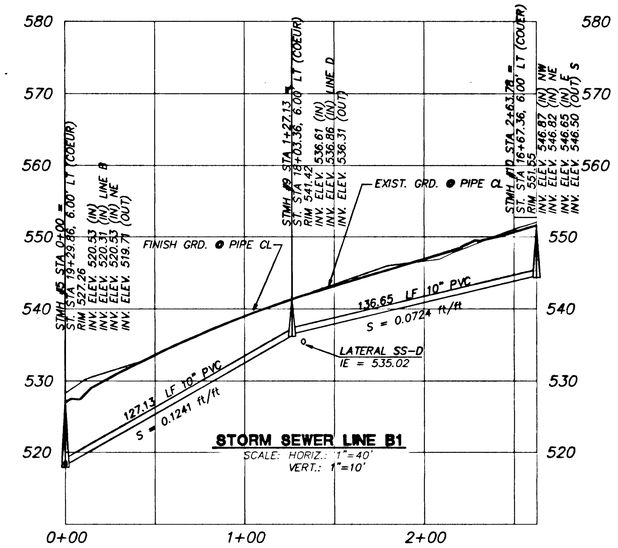
VISTA RIDGE ESTATES SUBDIVISION ROAD IMPROVEMENTS PROFILES

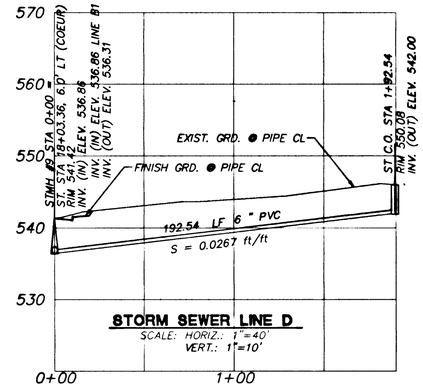
4/11

91-088

AS-BUILT







AS BUILT

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NO.	BY	DATE	DESCRIPTION
3	GWW	8/29/94	AS-BUILT
2	JMB	3/2/94	PER ENGINEER
1	JMB	1/14/94	PER ENGINEER

REVISIONS

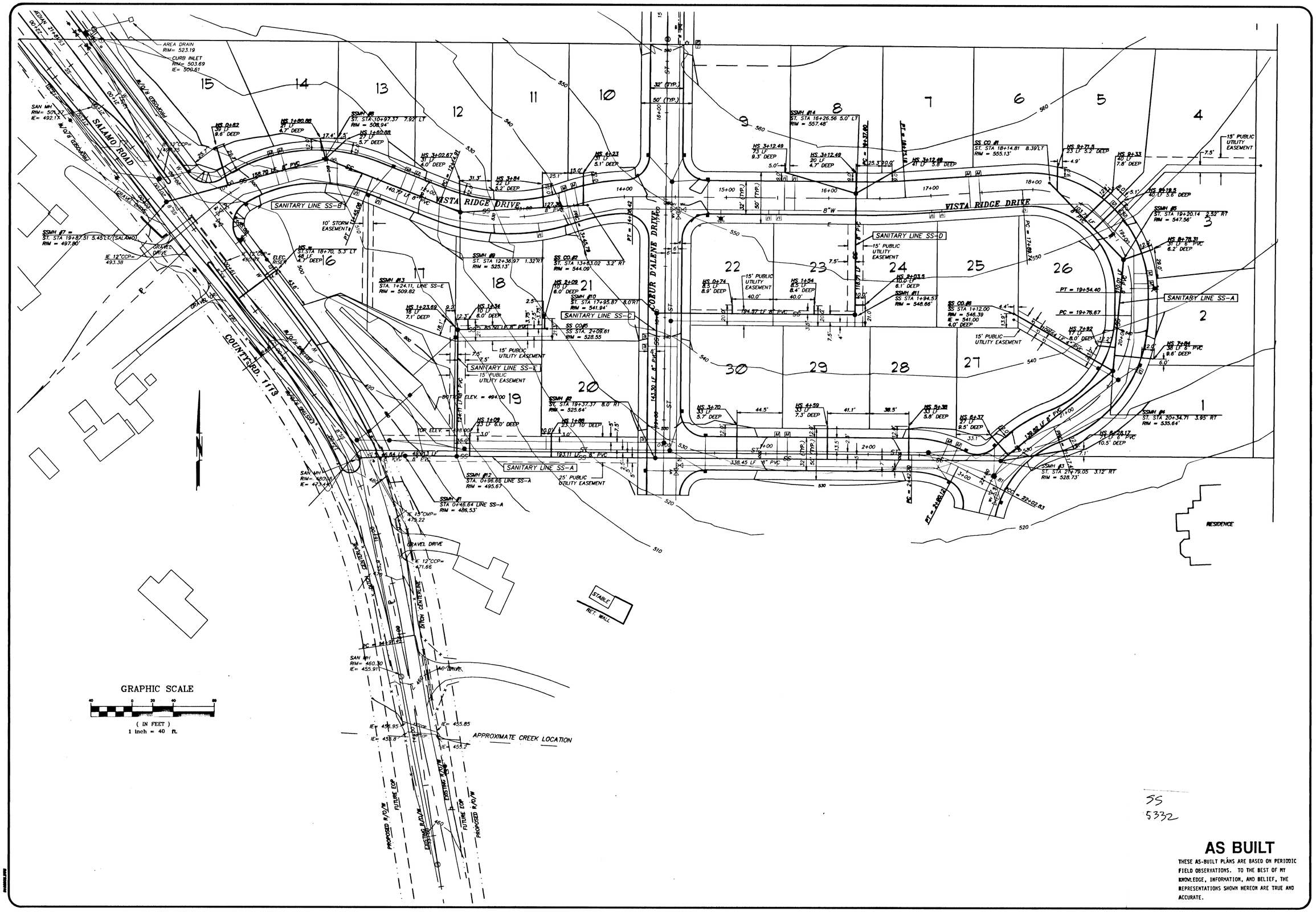
Designed SBT/JMB
Drawn JMB
Checked SBT
Approved
Date 1/7/94
Scale 1"=40'

CIVIL ENGINEERING PLANNING LAND SURVEYING
KAMPE ASSOCIATES
209 KRUSE PARK BUILDING
16767 S.W. BOONES FERRY RD.
LAKE OSWEGO, OREGON 97035
(503) 635-6291 FAX (503) 635-7040

VISTA RIDGE DEVELOPMENT COMPANY
18617 SW BRYANT ROAD
LAKE OSWEGO, OREGON 97035

VISTA RIDGE ESTATES SUBDIVISION STORM SEWER IMPROVEMENTS PROFILES

AS-BUILT



SS
5332

AS BUILT

THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS. TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE REPRESENTATIONS SHOWN HEREON ARE TRUE AND ACCURATE.

NO.	BY	DATE	DESCRIPTION
4	SKC	11/6/94	AS-BUILT / CITY REVIEW
3	GWW	8/29/94	AS-BUILT
2	JMD	3/4/94	PER ENGINEER / CITY REVIEW
1	JMD	1/14/94	PER ENGINEER

REVISIONS

Designed SSY/JMD
Drawn JMD
Checked SSY
Approved
Date 1/7/94
Scale 1"=40'

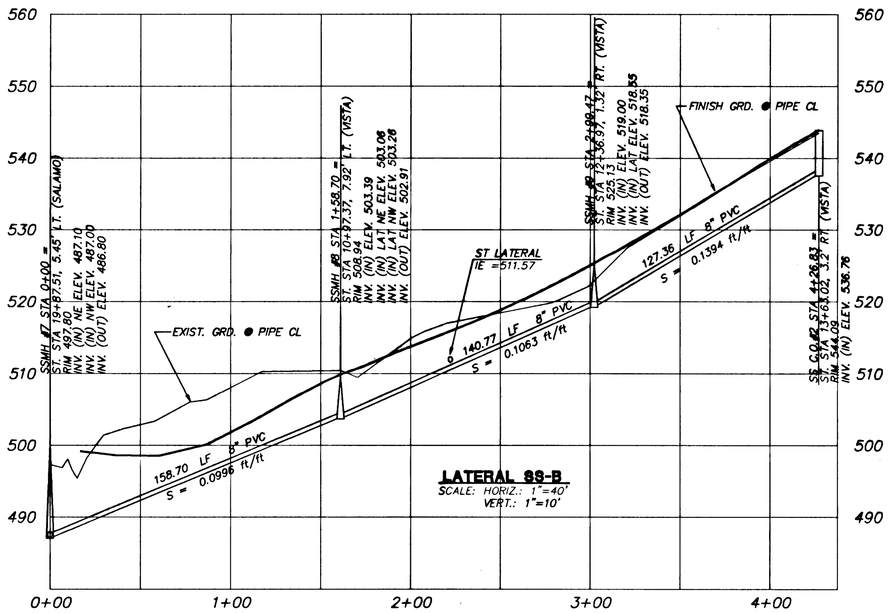
CIVIL PLANNING ENGINEERING LAND SURVEYING
KAMPE ASSOCIATES
20N MAIN, P.O. BOX 1000
LAKE OSWEGO, OREGON 97035
(503) 635-4291 FAX (503) 635-7496

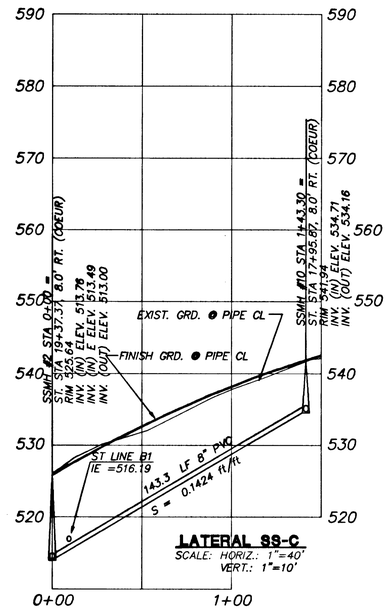
VISTA RIDGE DEVELOPMENT COMPANY
18517 SW BRYANT ROAD
LAKE OSWEGO, OREGON 97035

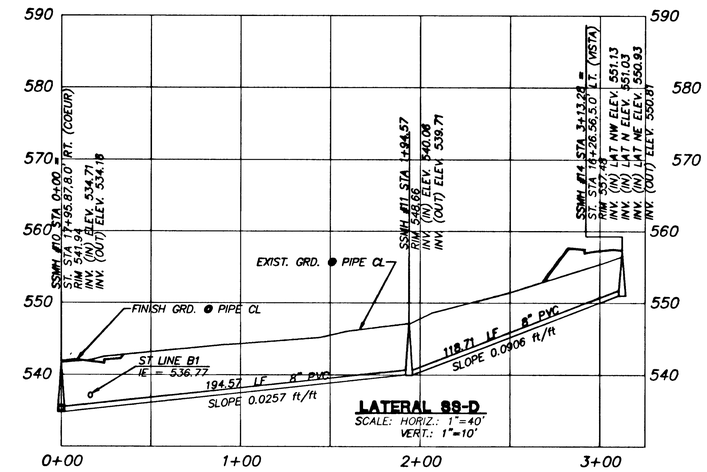
VISTA RIDGE ESTATES
SUBDIVISION
SANITARY SEWER IMPROVEMENTS
PLAN

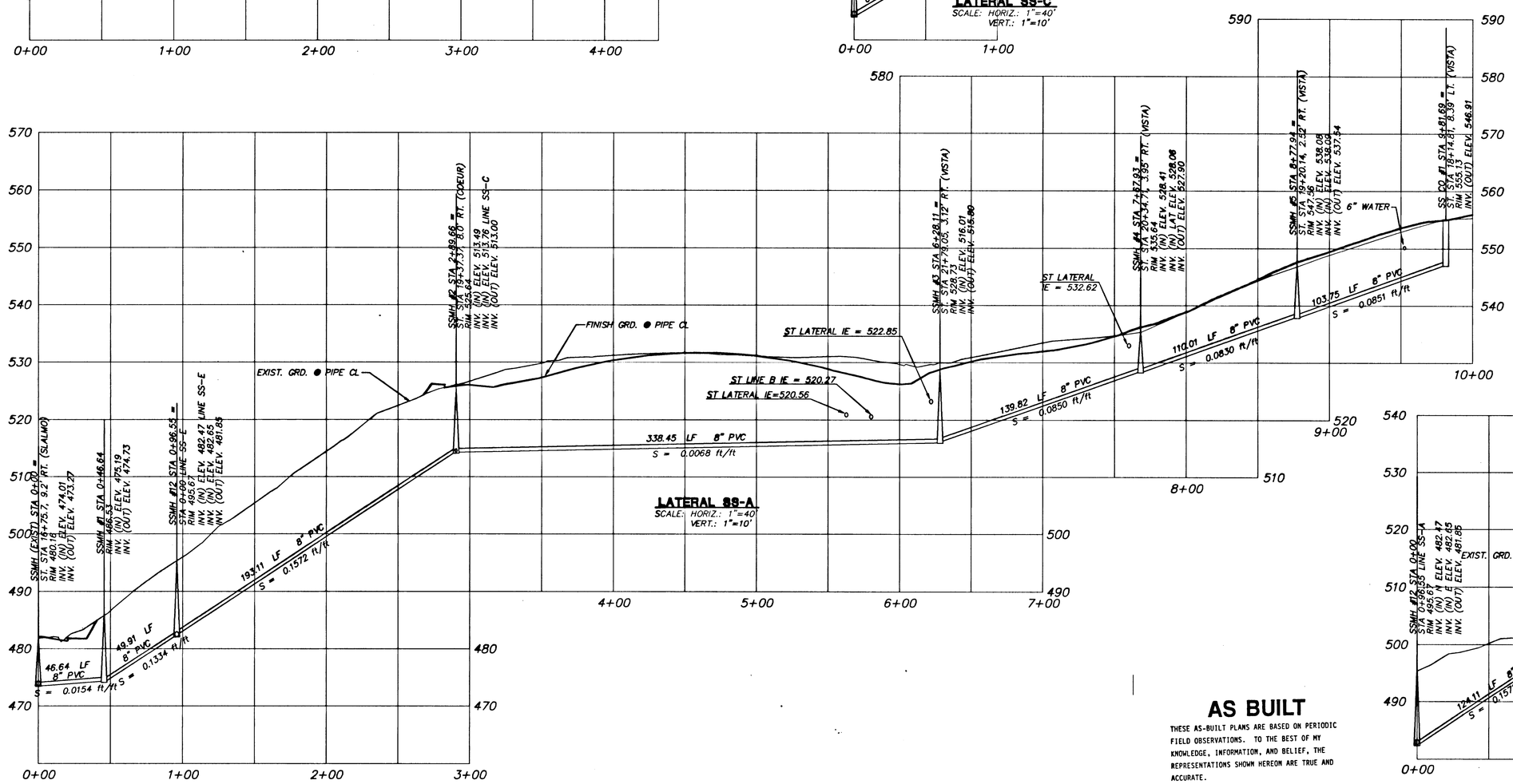
6/11
91-088

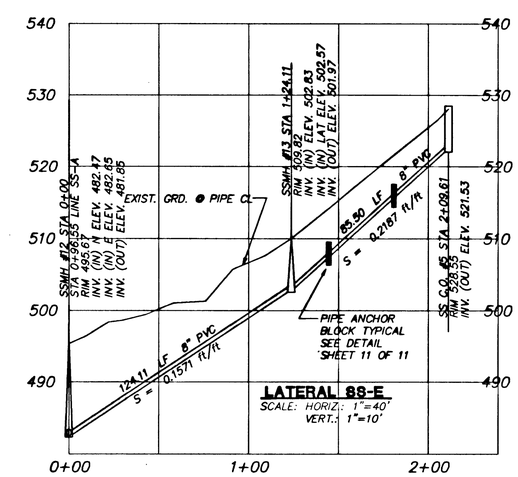
AS-BUILT











AS BUILT

THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS. TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE REPRESENTATIONS SHOWN HEREON ARE TRUE AND ACCURATE.

NO.	BY	DATE	DESCRIPTION
3	GMW	8/29/94	AS-BUILT
2	JMB	3/4/94	PER ENGINEER / CITY REVIEW
1	JMB	1/14/94	PER ENGINEER

REVISIONS

Designed SBT/JMB
Drawn JMB
Checked SBT
Approved
Date 1/7/94
Scale 1"=40'

PLANNING
CIVIL ENGINEERING
LAND SURVEYING

KAMPE ASSOCIATES, INC.
209 KOLE, PARK BUILDING
PO BOX 1, 1-800-NW
LAKE OSWEGO, OREGON 97035
(503) 635-5211 FAX (503) 635-5488

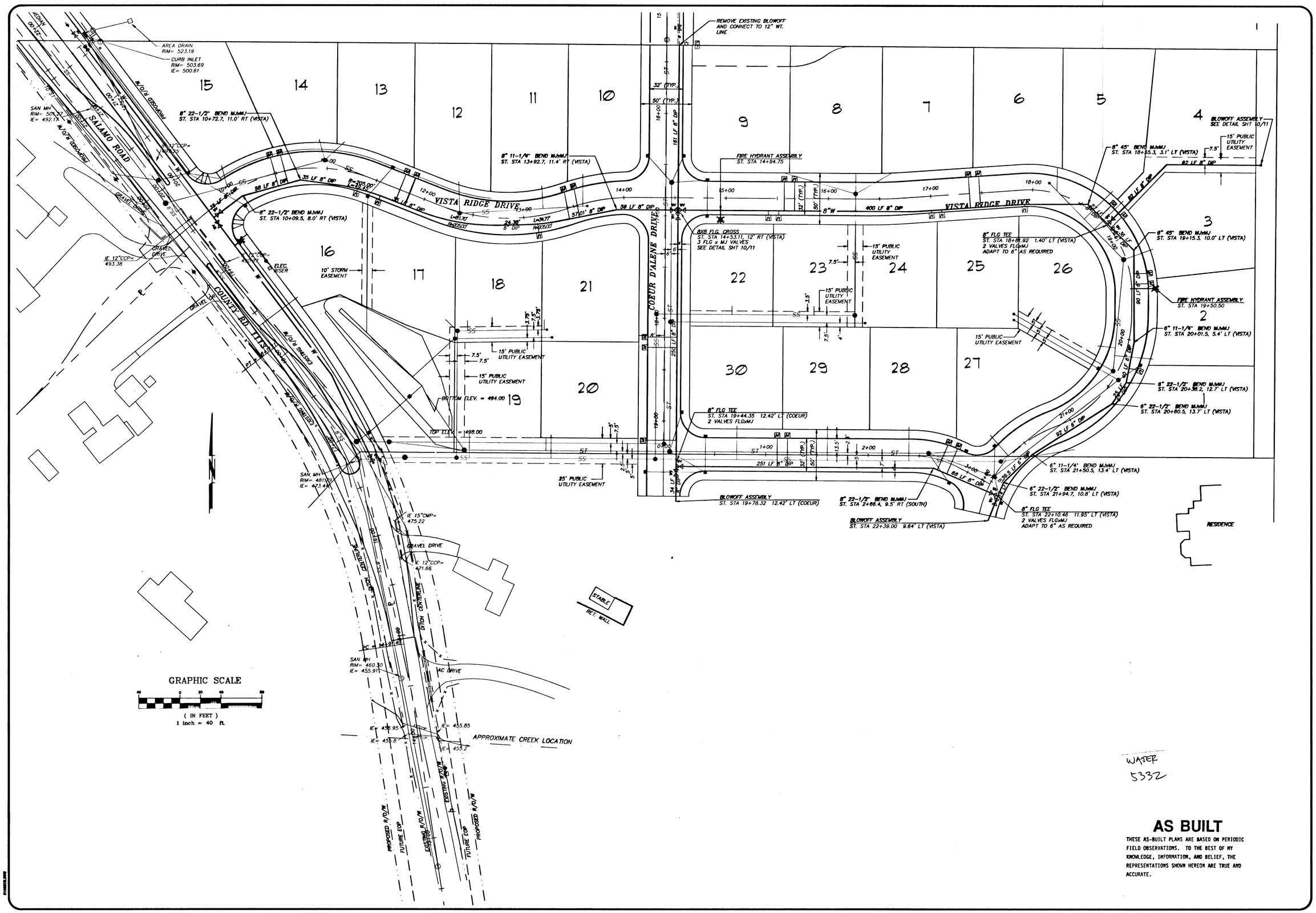
VISTA RIDGE DEVELOPMENT COMPANY
18517 SW BRYANT ROAD
LAKE OSWEGO, OREGON 97035

VISTA RIDGE ESTATES
SUBDIVISION
SANITARY SEWER IMPROVEMENTS
PROFILES

7/11

91-088

AS-BUILT



WATER
5332

AS BUILT

THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS. TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE REPRESENTATIONS SHOWN HEREON ARE TRUE AND ACCURATE.

NO.	BY	DATE	DESCRIPTION
3	GJHH	8/29/94	AS-BUILT
2	JMB	3/2/94	PER ENGINEER / CITY REVIEW
1	JMB	1/14/94	PER ENGINEER

REVISIONS

Designed SBT/JMB
Drawn JMB
Checked SBT
Approved
Date 1/7/94
Scale 1"=40'

PLANNING CIVIL ENGINEERING LAND SURVEYING
KAMPE ASSOCIATES INC.
209 KOUSE PARK BUILDING
3900 S.W. COLLINS WAY
LAKE OSWEGO, OREGON 97035
(503) 635-4291-FAX (503) 635-5480

VISTA RIDGE DEVELOPMENT COMPANY
18517 SW BRYANT ROAD
LAKE OSWEGO, OREGON 97035

VISTA RIDGE ESTATES SUBDIVISION
WATER SYSTEM IMPROVEMENTS PLAN

8/11
91-088

AS-BUILT

SEEDING/MULCHING NOTES:

1. ALL AREAS DISTURBED DURING CONSTRUCTION TO BE GRADED TO DRAIN AND COMPACTED TO A MINIMUM OF 90% OF AASHTO T99. IMMEDIATELY AFTER INSTALLATION OF UTILITIES OR GRADING OF RIGHT-OF-WAY.
2. RECOMMENDED SEED MIXTURE:

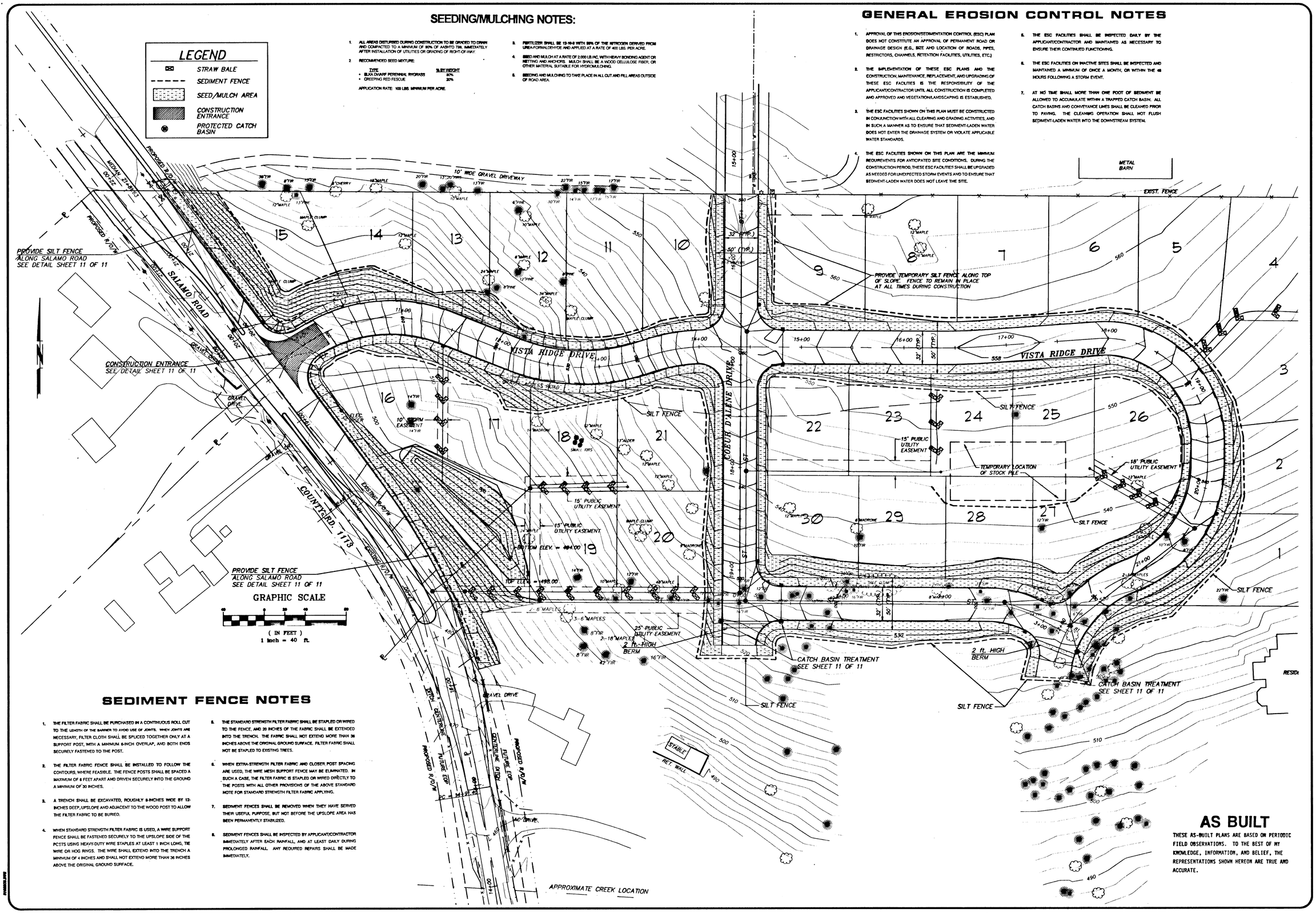
TYPE	% BY WEIGHT
• BLUE DWARF PERENNIAL RYGRASS	80%
• CREEPING RED FESCUE	20%

APPLICATION RATE: 100 LBS. MINIMUM PER ACRE.

3. FERTILIZER SHALL BE 13-19-9 WITH 50% OF THE NITROGEN DERIVED FROM UREA-FORMALDEHYDE AND APPLIED AT A RATE OF 400 LBS. PER ACRE.
4. SEED AND MULCH AT A RATE OF 2,000 LB/AC. WITH HEAVY BONDING AGENT OR NETTING AND ANCHORS. MULCH SHALL BE A WOOD CELLULOSE FIBER, OR OTHER MATERIAL SUITABLE FOR HYDROMULCHING.
5. SEEDING AND MULCHING TO TAKE PLACE IN ALL CUT AND FILL AREAS OUTSIDE OF ROAD AREA.

GENERAL EROSION CONTROL NOTES

1. APPROVAL OF THIS EROSION/SEDIMENTATION 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/LANDSCAPING IS ESTABLISHED.
3. THE ESC FACILITIES SHOWN 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 THE 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.



SEDIMENT FENCE NOTES

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. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 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 1 INCH LONG, TIE WIRE OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 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 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER 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.

AS BUILT

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NO.	BY	DATE	DESCRIPTION
3	BAH	8/4/94	AS-BUILT
2	GMB	1/7/94	PER ENGINEER / CITY REVIEW
1	LMB	1/14/94	PER ENGINEER

REVISIONS

Designed SBP/JAB
Drawn JAB
Checked SBP
Approved
Date 1/7/94
Scale 1"=40'

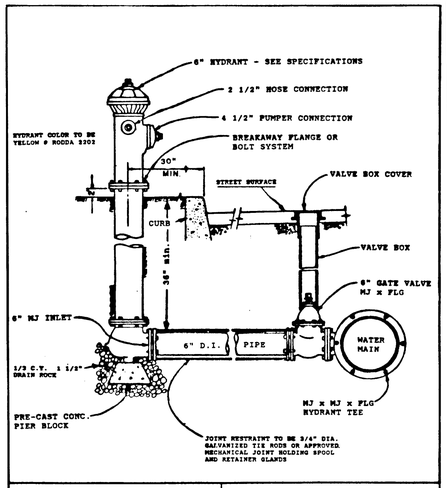
KAMPE ASSOCIATES
PLANNING CIVIL ENGINEERING LAND SURVEYING
209 KIDDER PARK BUILDING
2905 S.W. COLLAGE WAY
LAKE OSWEGO, OREGON 97035
(503) 635-8291 / FAX (503) 635-3485

VISTA RIDGE DEVELOPMENT COMPANY
18517 SW BRYANT ROAD
LAKE OSWEGO, OREGON 97035

VISTA RIDGE ESTATES SUBDIVISION
GRADING & EROSION CONTROL PLAN

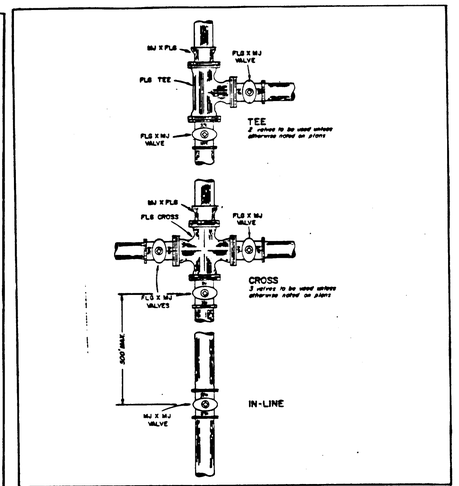
9 / 11
91-088

AS-BUILT



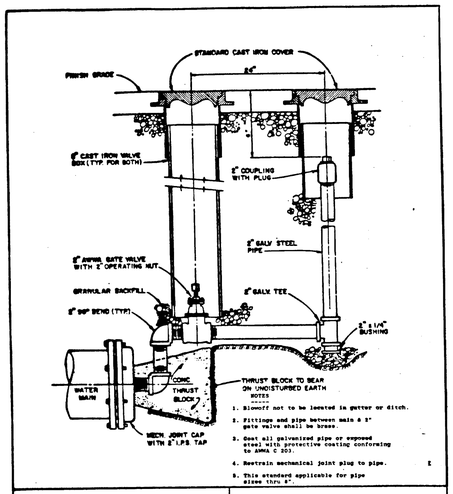
CITY OF WEST LINN — FIRE HYDRANT

DRAWN BY DDP DATE 5-20-87
CHECKED BY DEK DATE 5-27-87
APPROVED BY Earl Reed DATE 5-27-87
DWG. NO. FH - 300



CITY OF WEST LINN — VALVE LOCATION

DRAWN BY DDP DATE 5-20-87
CHECKED BY DEK DATE 5-27-87
APPROVED BY Earl Reed DATE 5-27-87
DWG. NO. VL - 303

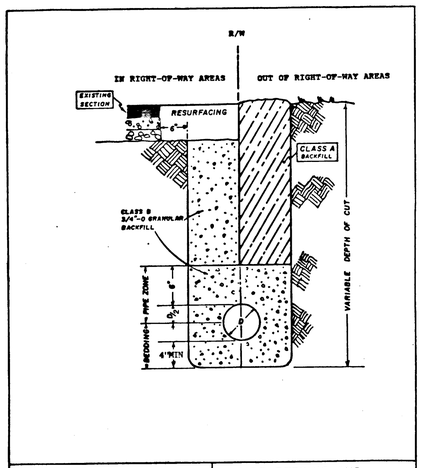


NOTES

1. Blowoff not to be located in gutter or ditch.
2. Fittings and pipe between main & 2" gate valve shall be brass.
3. Cast all galvanized pipe or exposed steel with protective coating conforming to AWWA C 203.
4. Restrain mechanical joint plug to pipe.
5. This standard applicable for pipe sizes thru 8".

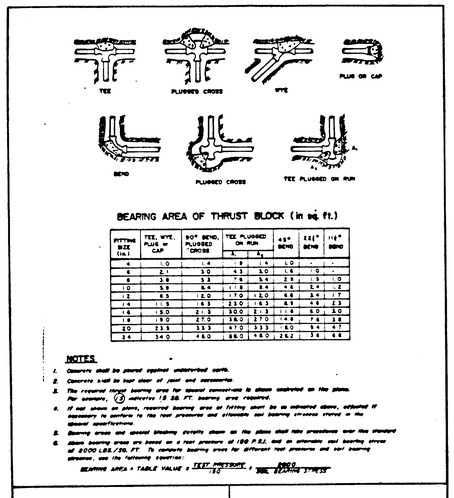
CITY OF WEST LINN — BLOWOFF

DRAWN BY DDP DATE 5-20-87
CHECKED BY DEK DATE
APPROVED BY Earl Reed DATE 5-27-87
DWG. NO. BO - 301



CITY OF WEST LINN — PIPE BEDDING AND BACKFILL DETAILS

DRAWN BY DDP DATE 5-20-87
CHECKED BY DEK DATE 5-27-87
APPROVED BY Earl Reed DATE 5-27-87
DWG. NO. PB - 280



BEARING AREA OF THRUST BLOCK (in sq. ft.)

FITTING SIZE (IN.)	TEE, WYE, PLUG or CAP	90° BEND, PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22½° BEND	11¼° BEND
			B_1	B_2			
4	1.0	1.4	1.0	1.4	1.0	1.0	1.0
6	2.1	3.0	4.1	3.0	1.6	1.0	1.0
8	3.8	5.3	7.4	5.3	2.9	1.0	1.0
10	5.9	8.4	11.6	8.4	4.6	1.4	1.2
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0
18	19.0	27.0	38.0	27.0	14.6	7.4	3.8
20	23.5	33.3	47.0	33.3	18.0	9.4	4.7
24	34.0	48.0	68.0	48.0	26.2	13.4	6.8

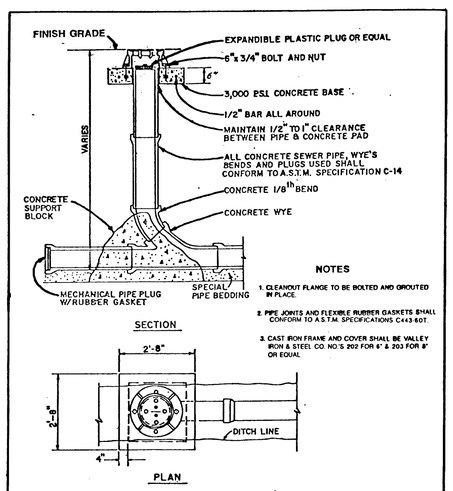
NOTES

1. Concrete shall be poured against undisturbed earth.
2. Concrete shall be bar clear of joint and accessories.
3. The required thrust bearing area for special connections is shown underlined on this plans. For example, 6 indicates 16 SQ. FT. bearing area required.
4. If not shown on plans, required bearing area of fitting must be a minimum value, adjusted if necessary to conform to the test pressure of standards and bearing stresses stated in the special specifications.
5. Bearing areas and special blocking details shown on the plans shall take precedence over the standard.
6. Plan bearing areas are based on a test pressure of 150 P.S.I. and an allowable soil bearing stress of 2000 LBS./SQ. FT. To compute bearing areas for different test pressure and soil bearing strength, use the following equation:

$$\text{BEARING AREA} = \text{TABLE VALUE} \times \frac{\text{TEST PRESSURE}}{150} \times \frac{\text{PIPE O.D.}}{\text{PIPE STRESS}}$$

CITY OF WEST LINN — THRUST BLOCKING

DRAWN BY DDP DATE 5-20-87
CHECKED BY DEK DATE
APPROVED BY Earl Reed DATE 5-27-87
DWG. NO. TB - 302

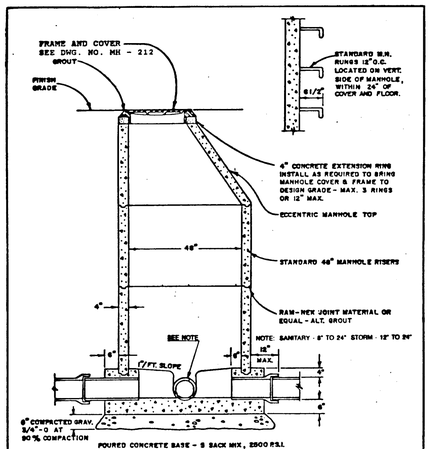


NOTES

1. CLEANOUT FLANGE TO BE BOLTED AND GROUTED IN PLACE.
2. PIPE JOINTS AND FLEXIBLE RUBBER GASKETS SHALL CONFORM TO A.S.T.M. SPECIFICATIONS C443-80T.
3. CAST IRON FRAME AND COVER SHALL BE VALLEY IRON & STEEL CO. NO.'S 202 FOR 4" & 203 FOR 8" OR EQUAL

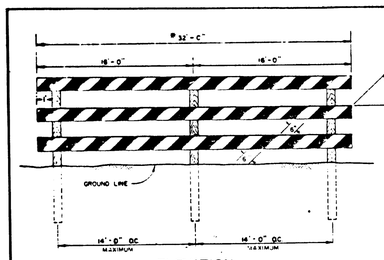
CITY OF WEST LINN — SANITARY SEWER CLEANOUT

DRAWN BY DDP DATE 10-4-88
CHECKED BY DEK DATE 10-5-88
APPROVED BY Earl Reed DATE 10-12-88
DWG. NO. SS-4

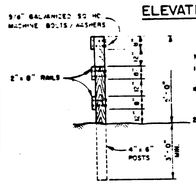


CITY OF WEST LINN — STANDARD MANHOLE

DRAWN BY DDP DATE 5-20-87
CHECKED BY DEK DATE 5-27-87
APPROVED BY Earl Reed DATE 5-27-87
DWG. NO. MH - 209



ELEVATION



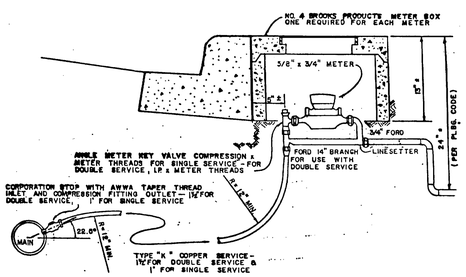
END VIEW

NOTES

1. RAILS TO BE PAINTED BLACK WITH WHITE STRIPES. THE WHITE STRIPES SHALL BE REFLECTORIZED.
* FOR WIDER APPLICATIONS, MULTIPLE SECTIONS AS SHOWN SHALL BE USED.
2. SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE OREGON SUPPLEMENT.
   SF-1 BARRICADES
   SC-8 BARRICADE DESIGN
   SC-9 BARRICADE APPLICATION
3. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF OREGON STANDARD SPECIFICATIONS FOR HWY. CONSTRUCTION.

CITY OF WEST LINN — STREET BARRICADE - TYPE III

DRAWN BY DDP DATE
CHECKED BY DEK DATE
APPROVED BY Earl Reed DATE 5-27-87
DWG. NO. SB - 276



TYPICAL WATER SERVICE INSTALLATION

AS BUILT

THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS. TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE REPRESENTATIONS SHOWN HEREON ARE TRUE AND ACCURATE.

NO.	BY:	DATE	DESCRIPTION
1	EWH	8/29/94	AS-BUILT

REVISIONS

Designed SBT/JMB
Drawn JMB
Checked SBT
Approved
Date 1/7/94
Scale 1"=40'

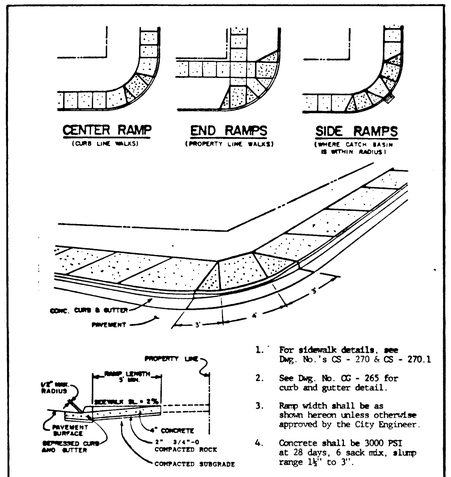
KAMPE ASSOCIATES
PLANNING ENGINEERING LAND SURVEYING
209 RIVER PARK BUILDING
OREGON CITY, OREGON 97045
LAKE OSWEGO, OREGON 97035
(503) 635-4291-FAX (503) 635-5480

VISTA RIDGE DEVELOPMENT COMPANY
18517 SW BRYANT ROAD
LAKE OSWEGO, OREGON 97035

VISTA RIDGE ESTATES
SUBDIVISION
DETAILS

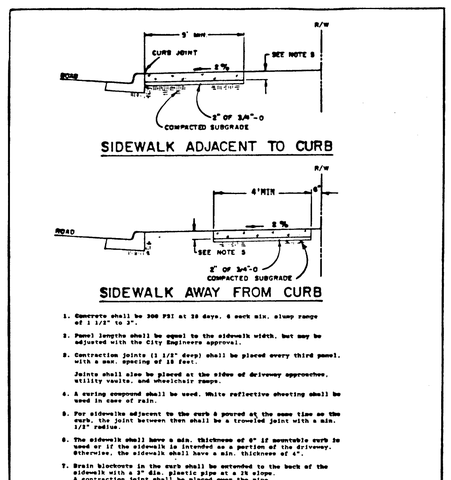
10/11 — 91-088

AS-BUILT



1. For sidewalk details, see Dwg. No.'s CS - 270 & CS - 270.1
2. See Dwg. No. CG - 265 for curb and gutter detail.
3. Ramp width shall be as shown hereon unless otherwise approved by the City Engineer.
4. Concrete shall be 3000 PSI at 28 days, 6 sack mix, slump range 1½" to 3".

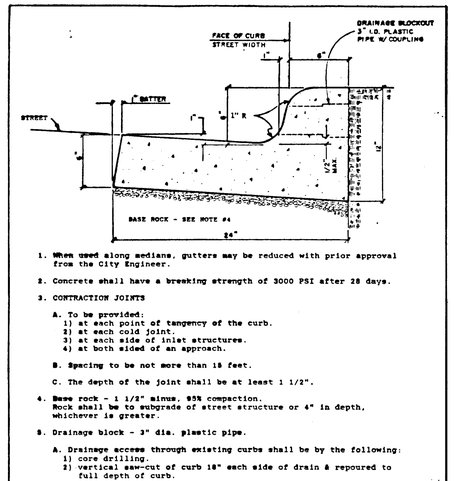
CITY OF WEST LINN	SIDEWALK RAMP
DRAWN BY DDP DATE 5-20-87	
CHECKED BY DATE	
APPROVED BY Earl Reed DATE 5-27-87	DWG. NO. CS - 271



1. Concrete shall be 3000 PSI at 28 days, 6 sack mix, slump range of 1 1/2" to 3".
2. Panel length shall be equal to the sidewalk width, but may be adjusted with the City Engineers approval.
3. Contraction joints (1 1/2" deep) shall be placed every third panel, with a max. spacing of 15 feet.

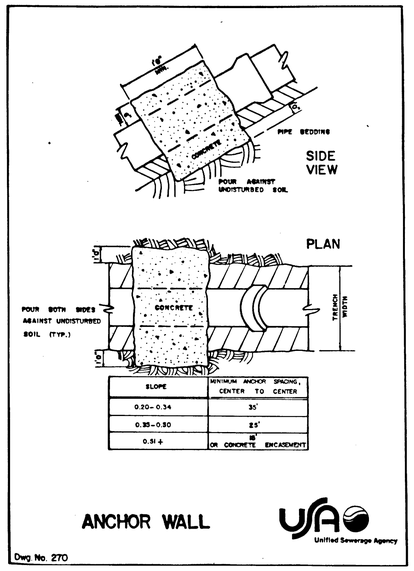
   Joints shall also be placed at the sides of driveway approaches, utility vaults, and wheelchair ramps.
4. A curing compound shall be used. White reflective sheeting shall be used in case of rain.
5. For sidewalks adjacent to the curb & poured at the same time as the curb, the joint between them shall be a troweled joint with a min. 1/2" radius.
6. The sidewalk shall have a min. thickness of 6" if mountable curb is used or if the sidewalk is intended as a portion of the driveway. Otherwise, the sidewalk shall have a min. thickness of 4".
7. Drain blockouts in the curb shall be extended to the back of the sidewalk with a 3" dia. plastic pipe at a 2% slope. A contraction joint shall be placed over the pipe.

CITY OF WEST LINN	CONCRETE SIDEWALK
DRAWN BY DDP DATE 5-20-87	
CHECKED BY DATE 5-21-87	
APPROVED BY Earl Reed DATE 5-27-87	DWG. NO. CS - 270



1. When used along medians, gutters may be reduced with prior approval from the City Engineer.
2. Concrete shall have a breaking strength of 3000 PSI 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 sided 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" in depth, whichever is greater.
5. Drainage block - 3" dia. 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.

CITY OF WEST LINN	CURB & GUTTER
DRAWN BY DDP DATE 5-20-87	
CHECKED BY DATE	
APPROVED BY Earl Reed DATE 5-27-87	DWG. NO. CG - 265

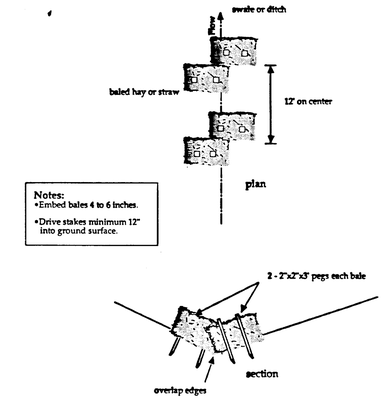


SLOPE	MINIMUM ANCHOR SPACING, CENTER TO CENTER
0.20-0.34	35'
0.35-0.50	25'
0.51+	OR CONCRETE ENCASEMENT

ANCHOR WALL

USA Unified Sewerage Agency

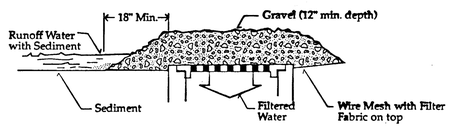
Dwg. No. 270



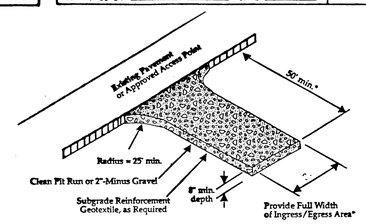
Notes:
- Embed bales 4 to 6 inches.
- Drive stakes minimum 12" into ground surface.

Straw Bale Sediment Barriers in Ditches or Swales

STRAW BALE SEDIMENT BARRIER

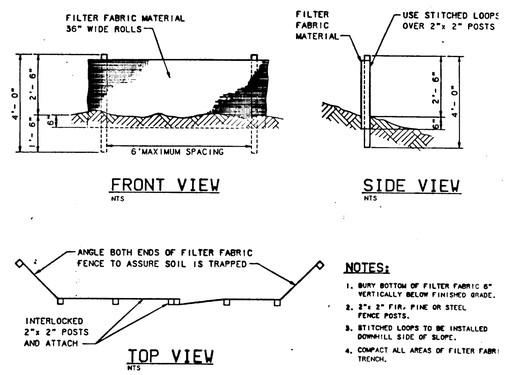


GRAVEL & WIRE MESH INLET BARRIER



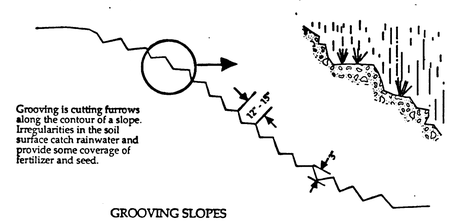
*20' min. for single family and duplex residential

GRAVEL CONSTRUCTION ENTRANCE

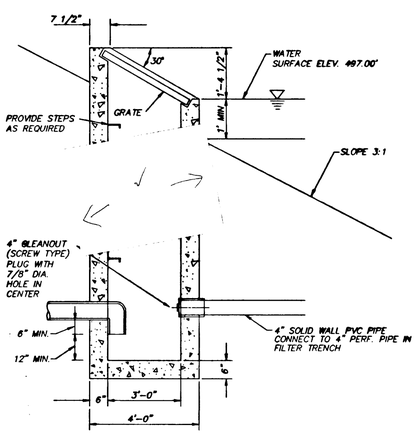


NOTES:
1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x 2" FIR, PINE OR STEEL FENCE POSTS.
3. STITCHED LOOPS TO BE INSTALLED DOWNHILL SIDE OF SLOPE.
4. COMPACT ALL AREAS OF FILTER FABRIC TRENCH.

SEDIMENT FENCE

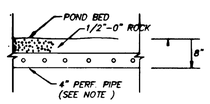


SLOPE PROTECTION



POND DRAINAGE STRUCTURE

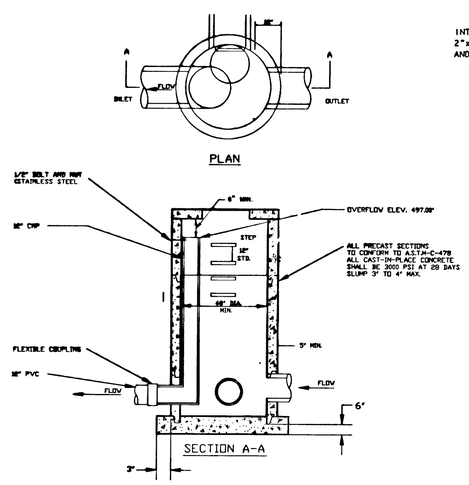
N.T.S.



FILTER TRENCH

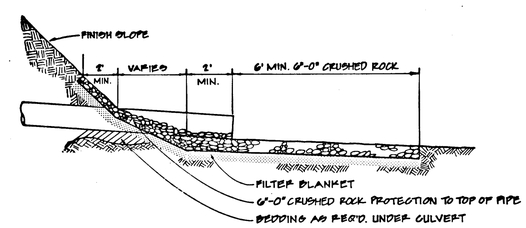
N.T.S.

NOTE:
4" PERF. PIPE TO BE INSTALLED IN TRENCH 12" WIDE x 8" DEEP. PIPE TO BE COVERED WITH 1/2"-0" ROCK, 8" MIN. DEPTH. PIPE AND LOWER 4" OF ROCK IN TRENCH TO BE WRAPPED WITH FILTER FABRIC.



STORM MANHOLE #4

(nts)



POND ENTRANCE RIP-RAP

AS BUILT

THESE AS-BUILT PLANS ARE BASED ON PERIODIC FIELD OBSERVATIONS. TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE REPRESENTATIONS SHOWN HEREON ARE TRUE AND ACCURATE.

NO.	BY	DATE	DESCRIPTION
3	BHH	8/29/94	AS-BUILT
2	JRN	3/2/94	PER ENGINEER
1	JMB	1/14/94	PER ENGINEER

REVISIONS

Designed SBT/JMB
Drawn JMB
Checked SBT
Approved
Date 1/7/94
Scale 1"=40'

PLANNING
CIVIL ENGINEERING
LAND SURVEYING

KAMPE ASSOCIATES, INC.
209 KIBE PARK BUILDING
18640 NW WALNUT BLVD.
LAKE OSWEGO, OREGON 97035
(503) 635-6211 FAX (503) 635-7468

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