

ELMRAN / MAPLETON CULVERT REPLACEMENT PROJECT

CITY PROJECTS PW0033 & PW0112

CITY PROJECT CONTACT

KELLI GROVER, PE
(503) 722-5503

SHEET INDEX

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RECORD DRAWING

THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION SUBMITTED BY OTHERS. THEY INTEND TO REPRESENT REVISIONS BASED ON CONSTRUCTION RECORDS. DRAKE & ASSOCIATES HAS NOT VERIFIED THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

REVISION DATE: NOVEMBER 2004
PREPARED BY: DRAKE & ASSOCIATES

SHEET TITLE & NO.

COVER

G1

CITY OF WEST LINN

22500 SALAMO RD. #800

CLACKAMAS COUNTY

OREGON

ELMRAN / MAPLETON CULVERT
REPLACEMENT PROJECT

CITY PROJECTS PW0033 & PW0112

DRAKE & ASSOCIATES, LLC

CIVIL ENGINEERING SERVICES

11765 SW WALNUT ST. TIGARD, OR.
97223

TEL./FAX: (503) 524-7799
EMAIL: GDRAKEASSOC@AOL.COM
CONTACT: GEORGE DRAKE, PE



DATE

8-23-04

PROJECT
NO.

1000-3



Expires Dec. 31, 2006

GENERAL NOTES

- ALL NEW IMPROVEMENTS SHALL BE IN ACCORDANCE WITH CITY OF WEST LINN PUBLIC WORKS STANDARDS, MAY 22, 2000, UNLESS NOTED OTHERWISE BY THESE PLANS OR OTHER CONTRACT DOCUMENTS.
- SCREENED (LIGHT) ITEMS ON THE DRAWINGS INDICATES EXISTING FACILITIES BASED ON THE BEST AVAILABLE INFORMATION. BOLD (DARK) ITEMS INDICATE NEW IMPROVEMENTS OR WORK AS NOTED.
- TOPOGRAPHIC SURVEYS AND MAPPING WERE DEVELOPED BY CITY OF WEST LINN.
- BEFORE EXCAVATING FOR THIS CONTRACT, CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND FACILITIES AND COORDINATE HIS WORK WITH THE UTILITY COMPANY REPRESENTATIVE (CALL MIN. 48 HOURS PRIOR TO EXCAVATION PER DRS 757.541 TO 757.571). THE EXISTENCE AND LOCATION OF ANY UNDERGROUND FACILITY, PIPES, OR STRUCTURES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM AVAILABLE RECORDS, AND FIELD SURVEYS AND MAY NOT REFLECT ALL EXISTING UTILITIES. THIS INFORMATION IS NOT GUARANTEED TO BE COMPLETE OR ACCURATE. LOCATIONS OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS BY CONTRACTOR PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR SHALL KEEP EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION.

UTILITY NOTIFICATION CENTER	(503) 248-5699
UTILITY ONE LOCATES	(503) 246-6699
CITY OF WEST LINN (SEWER & WATER)	(503) 656-6081
US WEST (TELEPHONE)	(800) 340-6342
NW NATURAL GAS	(800) 523-7661
PGE (ELECTRIC)	(800) 544-1793
COMCAST (CABLE TV)	(888) 824-8264
- CONTRACTOR SHALL MAKE TIMELY EXPLORATORY EXCAVATIONS AND LOCATE MAJOR EXISTING UNDERGROUND FACILITIES AHEAD OF CONSTRUCTION. OWNER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING MAJOR UNDERGROUND FACILITIES.
- HORIZONTAL LOCATION OF NEW IMPROVEMENTS SHALL BE BASED ON DIMENSIONS TO PHYSICAL FEATURES (EX CULVERTS, CENTERLINE OR EDGE OF PAVEMENT, ETC). DIMENSIONS REFER TO CENTER OF PIPELINE, STRUCTURES OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
- NEITHER THE OWNER, ENGINEER, OR THEIR FIELD REPRESENTATIVES WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
- RIGHT OF WAY AND PROPERTY LINES SHOWN ARE APPROXIMATE. NO BOUNDARY SURVEYS HAVE BEEN COMPLETED. CONFINE WORK OPERATIONS TO R/W.
- PAVEMENT RESTORATION REQUIREMENTS ARE ESTIMATED BASED ON ANTICIPATED CONSTRUCTION ACTIVITIES AND EXISTING FIELD CONDITIONS. FINAL REQUIREMENTS MAY VARY AND WILL BE DETERMINED BY THE OWNER FOLLOWING CULVERT INSTALLATION. STRIPING, REFLECTORS AND OTHER MARKINGS THAT ARE DISTURBED WILL BE RESTORED BY CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN LOCAL ACCESS FOR RESIDENTS AND FOR EMERGENCY VEHICLES AS MUCH AS POSSIBLE AT ALL TIMES. NOTICE TO AFFECTED PROPERTIES SHALL BE TIMELY AND CURRENT. COORDINATE DAILY CONSTRUCTION OPERATIONS & TEMPORARY STREET RESTRICTIONS WITH POLICE, FIRE, AMBULANCE, SCHOOL BUS, AND OTHER AFFECTED STREET USERS.

EROSION CONTROL NOTES

- THE IMPLEMENTATION OF EROSION CONTROL MEASURES (ECM) IS REQUIRED BY THE CONTRACTOR. INSTALLATION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF ECM IS THE RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION ACTIVITIES THAT DISTURB SURFACES AND CONTINUING UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE OWNER AND VEGETATION/PAVING IS RE-ESTABLISHED.
- APPROPRIATE ECM MUST BE INSTALLED, MAINTAINED, REPLACED, AND UPGRADED IN SUCH A MANNER TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, STREAMS, CREEKS, ROADWAYS AND PRIVATE PROPERTY.
- THE CONTRACTOR SHALL ADAPT AND UPGRADE THE ECM BASED ON HIS OPERATIONS AND WEATHER CONDITIONS, ON A DAILY BASIS.
- ECM SHALL BE REMOVED FROM THE PROJECT AREA BY THE CONTRACTOR AFTER PAVING AND VEGETATION IS RE-ESTABLISHED.
- EROSION PREVENTION AND SEDIMENT CONTROL, PLANNING AND DESIGN MANUAL, DECEMBER 2000, BY CITY OF WEST LINN, WATER ENVIRONMENT SERVICES AND UNIFIED SEWERAGE AGENCY (NOW CLEAN WATER SERVICES) IS REFERENCED STANDARD FOR EROSION CONTROL REQUIREMENTS FOR THIS PROJECT.

ABBREVIATIONS

ACP	ASPHALT CONCRETE PAVEMENT	NE	NORTHEAST
CB	CATCH BASIN	OD	OUTSIDE DIAMETER
CMP	CORRUGATED METAL PIPE	OH	OVERHEAD
C/L	CENTERLINE	PP	POWER POLE
CP	CONCRETE PIPE	PS	PUMP STATION
CT	COURT	PSI	POUNDS PER SQUARE INCH
DIP	DUCTILE IRON PIPE	PT	POINT
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DR	DRIVE	PE	POLYETHYLENE
DWG.	DRAWING	RT	RIGHT
E	EAST	S	SLOPE, SOUTH
ECM	EROSION CONTROL MEASURE	SAN	SANITARY
EXIST/EX.	EXISTING	SS	SANITARY SEWER
EL/ELEV	ELEVATION	SSL	SANITARY SEWER LATERAL
FM	FORCE MAIN	SD	STORM DRAIN
G	GAS PIPE	STA	STATION
GRAV.	GRAVITY	STD.	STANDARD
HZ	HORIZONTAL	SW	SOUTHWEST
ID	INSIDE DIAMETER	TL	TAX LOT
IE	INVERT ELEVATION	UGP	UNDERGROUND POWER
LF	LINEAR FOOT	UGT	UNDERGROUND TELEPHONE
LT	LEFT	UND	UNLESS NOTED OTHERWISE
MAX	MAXIMUM	VT	VERTICAL
MIN	MINIMUM	W	WATER MAIN, WEST
MH	MANHOLE	WL	WATER LINE
N	NORTH	X	PERCENT

LEGEND

	WATER LINE		GAS VALVE
	GAS LINE		MAILBOX
	SANITARY SEWER LINE		POWER POLE
	STORM SEWER LINE		POWER POLE ANCHOR
	OVERHEAD POWER LINE		SANITARY SEWER MANHOLE
	UG PHONE LINE		CATCH BASIN
	SPOT ELEVATION		SIGN
	EDGE OF EXISTING ACP ROADWAY		TREE
	GUARDRAIL		SHRUB
	STREAM BANK, SLOPE		WATER METER
	CONSTRUCTION NOTES		FIRE HYDRANT
	NEW CULVERT		WATER VALVE
	C/L NEW CULVERT		NEW SLOPE

RECORD DRAWING

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REVISION DATE: NOVEMBER 2004
PREPARED BY: DRAKE & ASSOCIATES

SHEET TITLE & NO.
GENERAL NOTES & LEGEND G2

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8-23-04

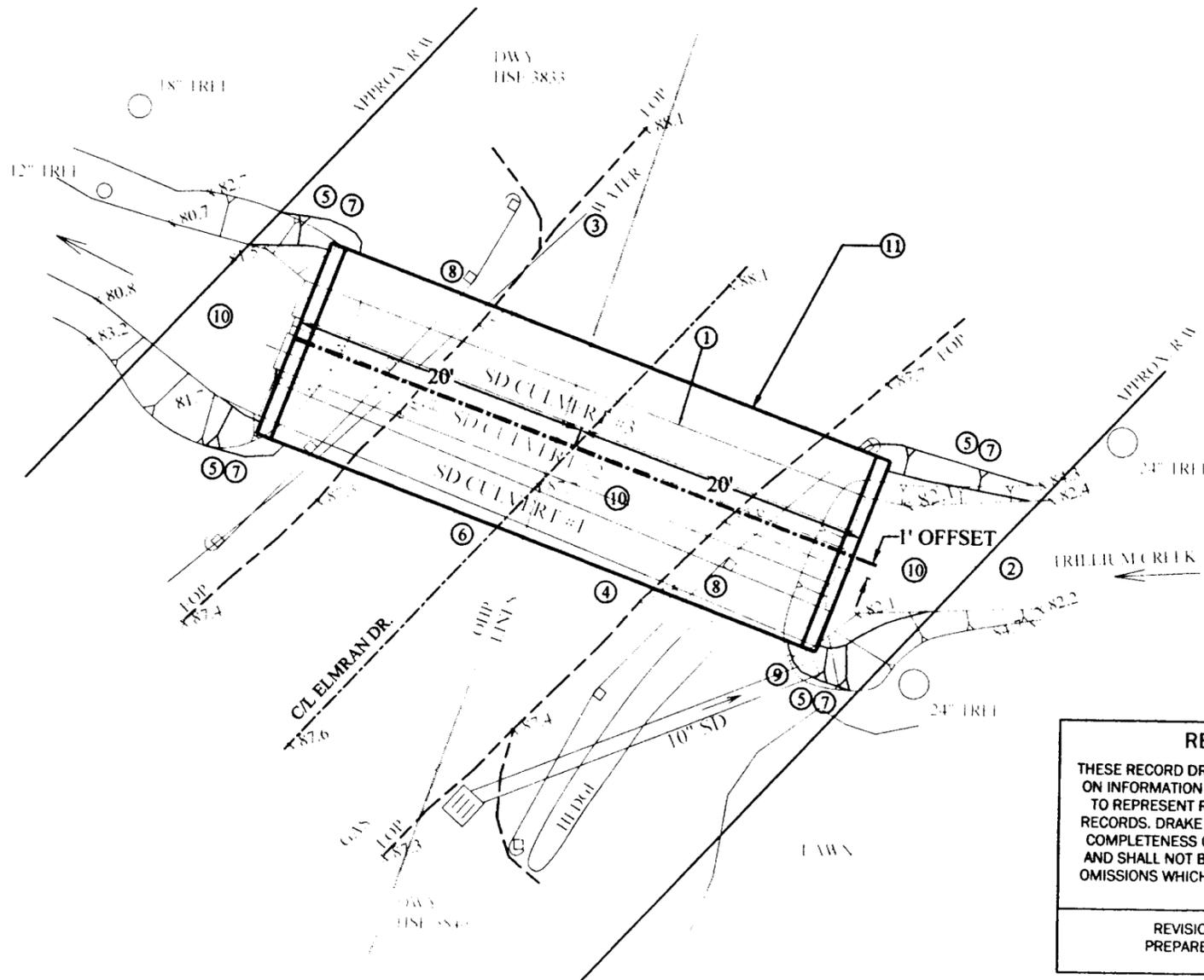
PROJECT NO.
1000-3



CITY OF WEST LINN
22500 SALAMO RD. #800
CLACKAMAS COUNTY OREGON

ELMRAN / MAPLETON CULVERT REPLACEMENT PROJECT
CITY PROJECTS PW0033 & PW0112

NORTH
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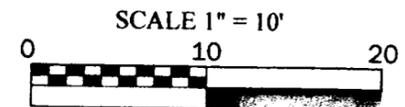
NOTES:

- ① EX. SD CULVERTS AND ROADWAY EMBANKMENT TO BE REMOVED TO ALLOW NEW CULVERT INSTALLATION. EXCESS MATERIAL SHALL BE DISPOSED OFF-SITE BY CONTRACTOR.
- ② GRAVITY STREAM FLOW BYPASS SHALL BE IMPLEMENTED. BYPASS PLAN TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. IN-STREAM DIKES SHALL USE SANDBAGS OR SIMILAR MEANS TO MINIMIZE IN-STREAM DISTURBANCE. BYPASS SHALL BE ADEQUATE FOR POTENTIAL STORM FLOWS. NEW CULVERT AND STREAMBED RESTORATION SHALL BE CONSTRUCTED IN DRY CONDITIONS.
- ③ EX. CITY WATER LINE THAT CROSSES THE EXISTING CULVERTS WILL BE ABANDONED PRIOR TO CONSTRUCTION. DEMOLISH ABANDONED WATER PIPE AS NECESSARY TO CONSTRUCT NEW CULVERTS.
- ④ EX. PRIVATE GAS LINE TO BE RELOCATED (BY OTHERS) TO CLEAR NEW CULVERT, OWNER IS COORDINATING WITH GAS CO.
- ⑤ STREAM BANKS TO BE ADJUSTED TO TRANSITION SMOOTHLY AT ENDS OF NEW CULVERT. GRADE DISTURBED BANKS TO APPROX. 1:1 SLOPE. PROTECT ENDS OF NEW CULVERT & DISTURBED BANKS IN ACCORDANCE WITH DETAILS 3/C5 & 5/C6.
- ⑥ RESTORE DISTURBED ASPHALT PAVEMENT AND PAVEMENT MARKINGS PER CITY STDS & DETAIL 6/C6.
- ⑦ EROSION PREVENTION AND CONTROL MEASURES SHALL BE IMPLEMENTED. THESE MEASURES SHALL BE MONITORED AND MAINTAINED DAILY. ADDITIONAL MEASURES OR MAINTAINENCE SHALL BE PROVIDED WHERE NECESSARY TO MAINTAIN EFFECTIVE EROSION CONTROL, AS DETERMINED BY THE CITY AND IN ACCORDANCE WITH PERMIT REQUIREMENTS.
- ⑧ RESTORE DISTURBED GUARDRAIL IN ACCORDANCE WITH ODOT STD. DWG. RD470 FOR GUARDRAIL OVER LOW-FILL CULVERTS. SEE DETAIL 1/C2.
- ⑨ EX. 10" SD DISCHARGE TO BE MAINTAINED NEAR UPSTREAM END OF NEW CULVERT. COORDINATE WITH RIP RAP PROTECTION PLACEMENT, SEE DETAIL 3/C5.
- ⑩ STREAMBED RESTORATION PER DETAIL 4/C5 REQUIRED AT NEW CULVERT, INCLUDING DISTURBED CREEK BOTTOM AREAS BEYOND THE CULVERT, AS DIRECTED BY THE ENGINEER.
- ⑪ CONSTRUCT NEW CULVERT, PRECAST CONCRETE 3-SIDED BRIDGE, 12' SPAN BY 4' RISE, 40 FEET LONG, PRECAST CONCRETE FOOTINGS, PRECAST CONCRETE CURBS 1' BY 1' BY 13.5' LONG AT EACH END OF CULVERT. SEE DETAIL 4/C5 AND PROFILE ON C2.

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PREPARED BY: DRAKE & ASSOCIATES



EX. CULVERT DATA					
ID.	DESCRIPTION	LENGTH	UP STR. INVERT	DOWN STR. INVERT	SLOPE
#1	30" CMP	40 LF	82.54	81.81	0.0183 FT/FT
#2	30" CMP	40 LF	82.42	81.97	0.0113 FT/FT
#3	30" CMP	40 LF	82.20	81.98	0.0055 FT/FT

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PROJECT NO.
1000-3



Expires Dec. 31, 2006

SHEET TITLE & NO.

ELMRAN SITE PLAN

C1

CITY OF WEST LINN

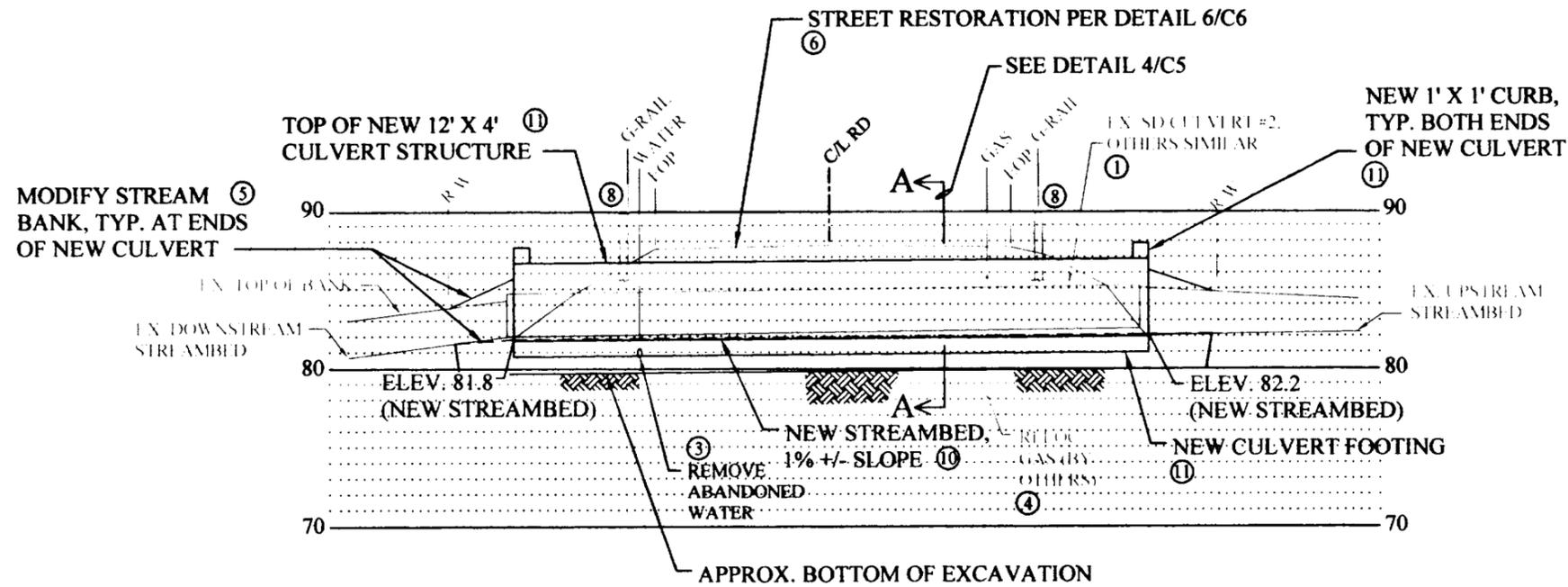
22500 SALAMO RD. #800

CLACKAMAS COUNTY

OREGON

ELMRAN / MAPLETON CULVERT
REPLACEMENT PROJECT

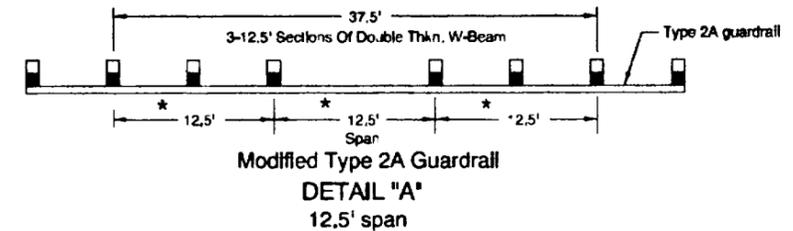
CITY PROJECTS PW0033 & PW0112



FOR KEY NOTES REFER TO SHT. C1

PROFILE @ C/L OF NEW CULVERT

SCALE 1" = 10'



* = Double Thkn. (2 Rail Elements)

NOTE: RESTORE GUARDRAIL AT NEW CULVERT SIMILAR TO ODOT STANDARD DRAWING RD470 (EXCERPT ABOVE) AND AS DIRECTED BY THE CITY. CENTER POST SPACING WILL BE APPROX. 16' RATHER THAN 12.5' SPAN SHOWN.

**DETAIL 1
 GUARDRAIL RESTORATION**

NO SCALE

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 PREPARED BY: DRAKE & ASSOCIATES

SHEET TITLE & NO. ELMRAN PROFILE & DETAILS C2	
CITY OF WEST LINN 22500 SALAMO RD. #800 CLACKAMAS COUNTY OREGON	
ELMRAN / MAPLETON CULVERT REPLACEMENT PROJECT CITY PROJECTS PW0033 & PW0112	

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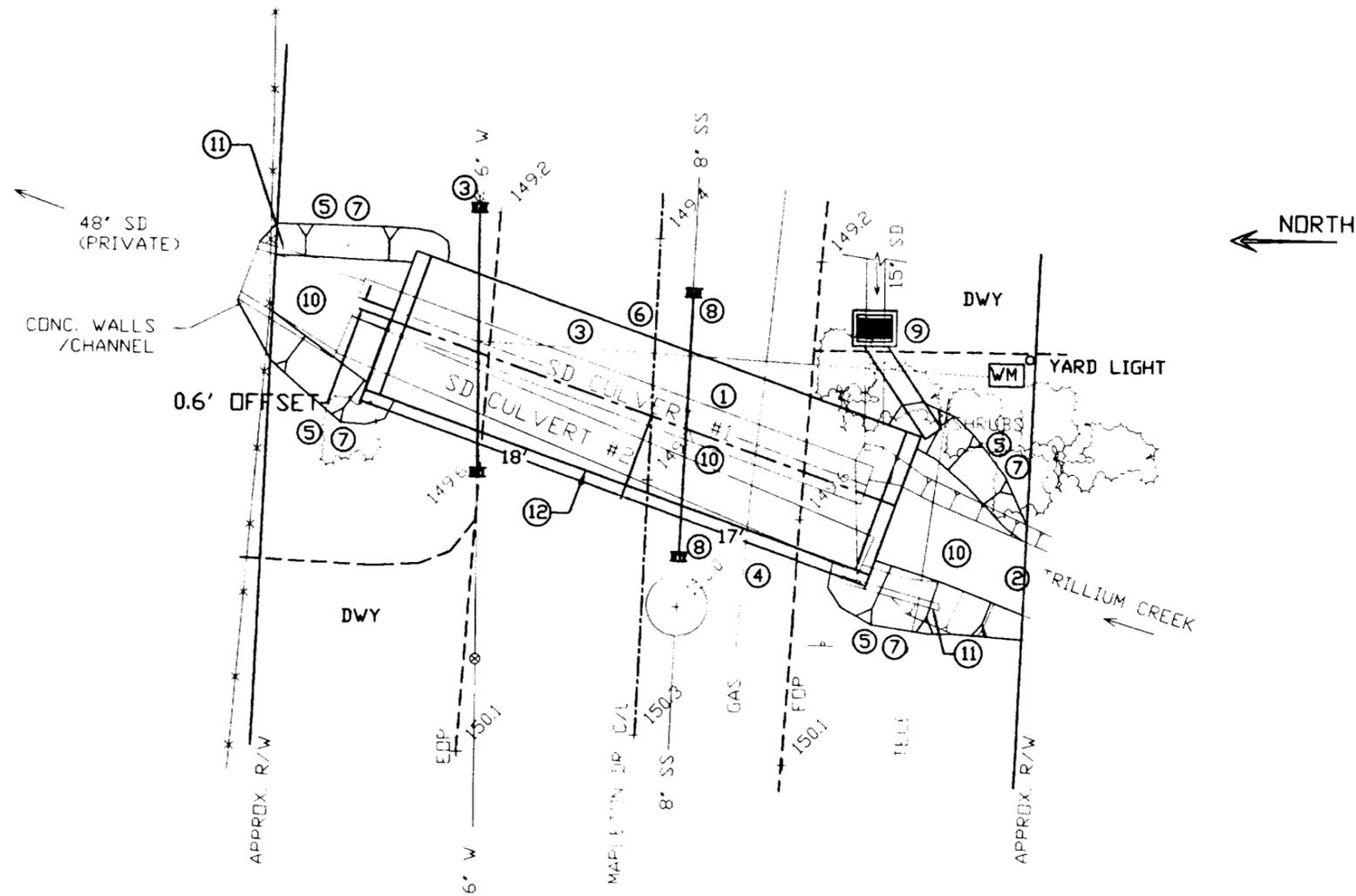


DATE
8-23-04
 PROJECT NO.
1000-3

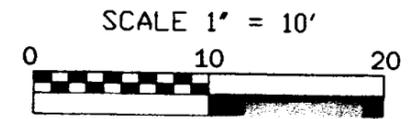


NOTES:

- ① EX. SD CULVERTS AND ROADWAY EMBANKMENT TO BE REMOVED TO ALLOW NEW CULVERT INSTALLATION. EXCESS MATERIAL SHALL BE DISPOSED OFF-SITE BY CONTRACTOR.
- ② GRAVITY STREAM FLOW BYPASS SHALL BE IMPLEMENTED. BYPASS PLAN TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. IN-STREAM DIKES SHALL USE SANDBAGS OR SIMILAR MEANS TO MINIMIZE IN-STREAM DISTURBANCE. BYPASS SHALL BE ADEQUATE FOR POTENTIAL STORM FLOWS. NEW CULVERT AND STREAMBED RESTORATION SHALL BE CONSTRUCTED IN DRY CONDITIONS.
- ③ REMOVE EX. 6" WATER AND SERVICE LINE TO CLEAR NEW CULVERT WORK AREA. CITY WILL VALVE OFF THIS PORTION OF MAIN PRIOR TO CONSTRUCTION & PROVIDE TEMPORARY SERVICE TO HSE. FOLLOWING NEW CULVERT INSTALLATION, INSTALL NEW 6" DIP WATER, SERVICE LINE & NECESSARY FITTINGS. NEW 6" WATER WILL BE LOCATED ABOVE THE NEW CULVERT.
- ④ EX. PRIVATE GAS LINE TO BE RELOCATED (BY OTHERS) TO CLEAR NEW CULVERT, OWNER IS COORDINATING WITH GAS CO.
- ⑤ STREAM BANKS TO BE ADJUSTED TO TRANSITION SMOOTHLY AT ENDS OF NEW CULVERT. GRADE DISTURBED BANKS TO APPROX. 1:1 SLOPE. PROTECT ENDS OF NEW CULVERT & DISTURBED BANKS IN ACCORDANCE WITH DETAILS 3/C5 & 5/C6.
- ⑥ RESTORE DISTURBED ASPHALT PAVEMENT AND PAVEMENT MARKINGS PER CITY STDS. & DETAIL 6/C6.
- ⑦ EROSION PREVENTION AND CONTROL MEASURES SHALL BE IMPLEMENTED. THESE MEASURES SHALL BE MONITORED AND MAINTAINED DAILY. ADDITIONAL MEASURES OR MAINTAINENCE SHALL BE PROVIDED WHERE NECESSARY TO MAINTAIN EFFECTIVE EROSION CONTROL, AS DETERMINED BY THE CITY AND IN ACCORDANCE WITH PERMIT REQUIREMENTS.
- ⑧ REPLACE EX. 8" SEWER WITH NEW 8" DIP SEWER & NEEDED FLEX COUPLINGS. NEW SEWER TO BE AT SAME ALIGNMENT/GRADE, NO JOINTS UNDER CULVERT. SANITARY SEWER TO BE MAINTAINED IN SERVICE. PROTECT DURING CULVERT FOOTING & STREAMBED CONSTRUCTION. SEE DETAIL 2/C4.
- ⑨ EX. 15' SD TO BE RELOCATED AT ITS DISCHARGE TO CLEAR THE NEW CULVERT STRUCTURE. INSTALL NEW TYPE G-1 CB W/ SUMP (DWG. WL-602) AND NEW 15' SD. COORDINATE W/ CULVERT END PROTECTION, SEE DETAIL 3/C5.
- ⑩ STREAMBED RESTORATION PER DETAIL 4/C5 REQUIRED AT NEW CULVERT, INCLUDING DISTURBED CREEK BOTTOM AREAS BEYOND THE CULVERT, AS DIRECTED BY THE ENGINEER.
- ⑪ REMOVE CONCRETE WALL/CHANNEL.
- ⑫ CONSTRUCT NEW CULVERT, PRECAST CONCRETE 3-SIDED BRIDGE, 8' SPAN BY 3' RISE, 35 FEET LONG, PRECAST CONCRETE FOOTINGS, PRECAST CONCRETE CURBS (1' BY 1' BY 9.5' LONG AT EACH END OF CULVERT. SEE DETAIL 4/C5 AND PROFILE ON C4.



NORTH ←



RECORD DRAWING

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PREPARED BY: DRAKE & ASSOCIATES

EX. CULVERT DATA					
ID.	DESCRIPTION	LENGTH	UP STR. INVERT	DOWN STR. INVERT	SLOPE
#1	24' CP	36 LF	144.41	143.27	0.032 FT/FT
#2	24' CP	37 LF	144.78	143.41	0.037 FT/FT

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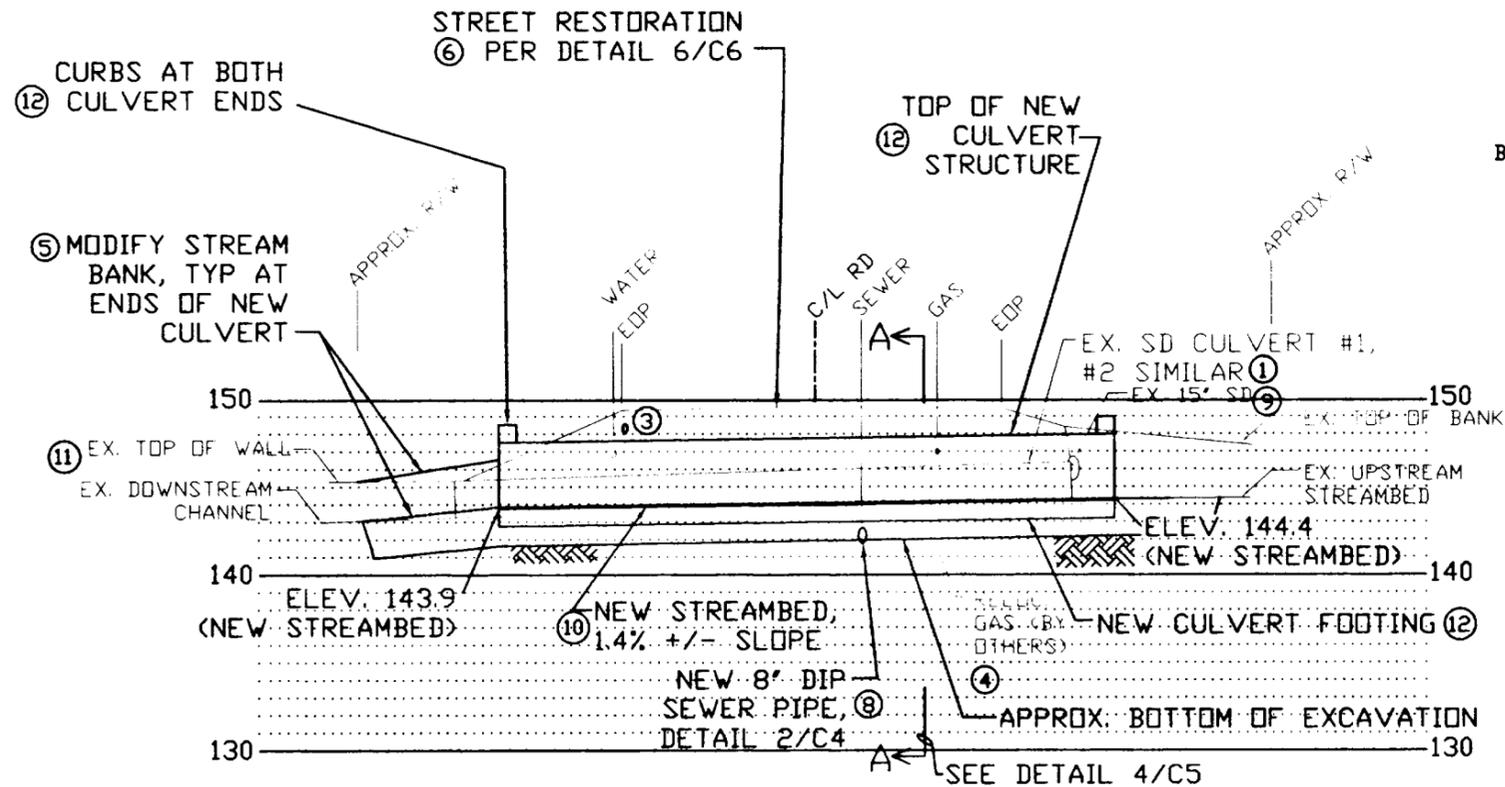
PROJECT NO.
1000-3



SHEET TITLE & NO.
MAPLETON SITE PLAN C3

CITY OF WEST LINN
22500 SALAMO RD. #800
CLACKAMAS COUNTY OREGON

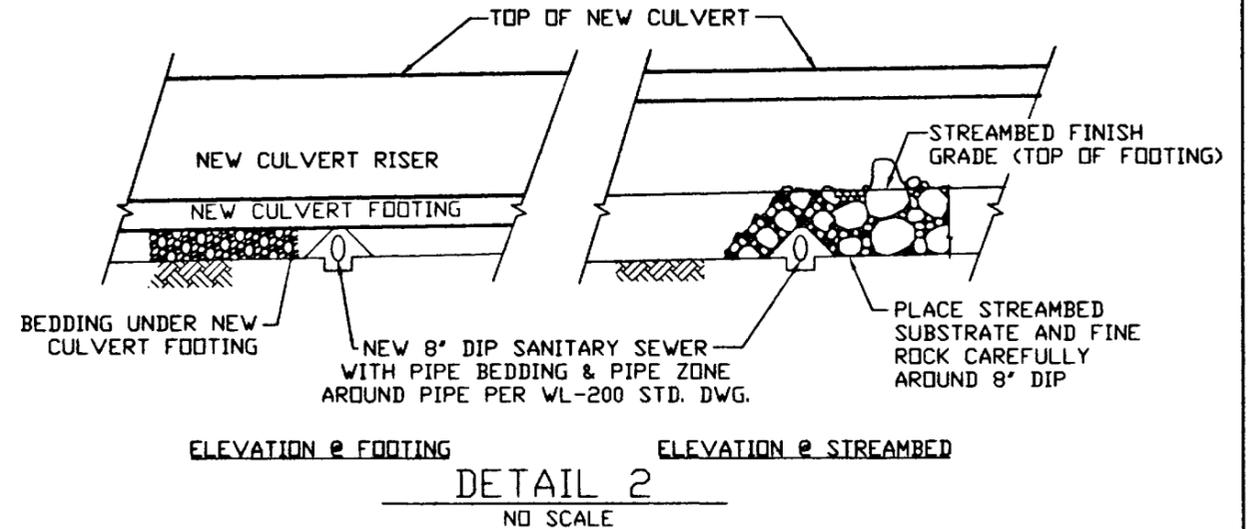
ELMRAN / MAPLETON CULVERT REPLACEMENT PROJECT
CITY PROJECTS PW0033 & PW0112



FOR KEY NOTES REFER TO SHT. C3

PROFILE @ C/L OF NEW CULVERT

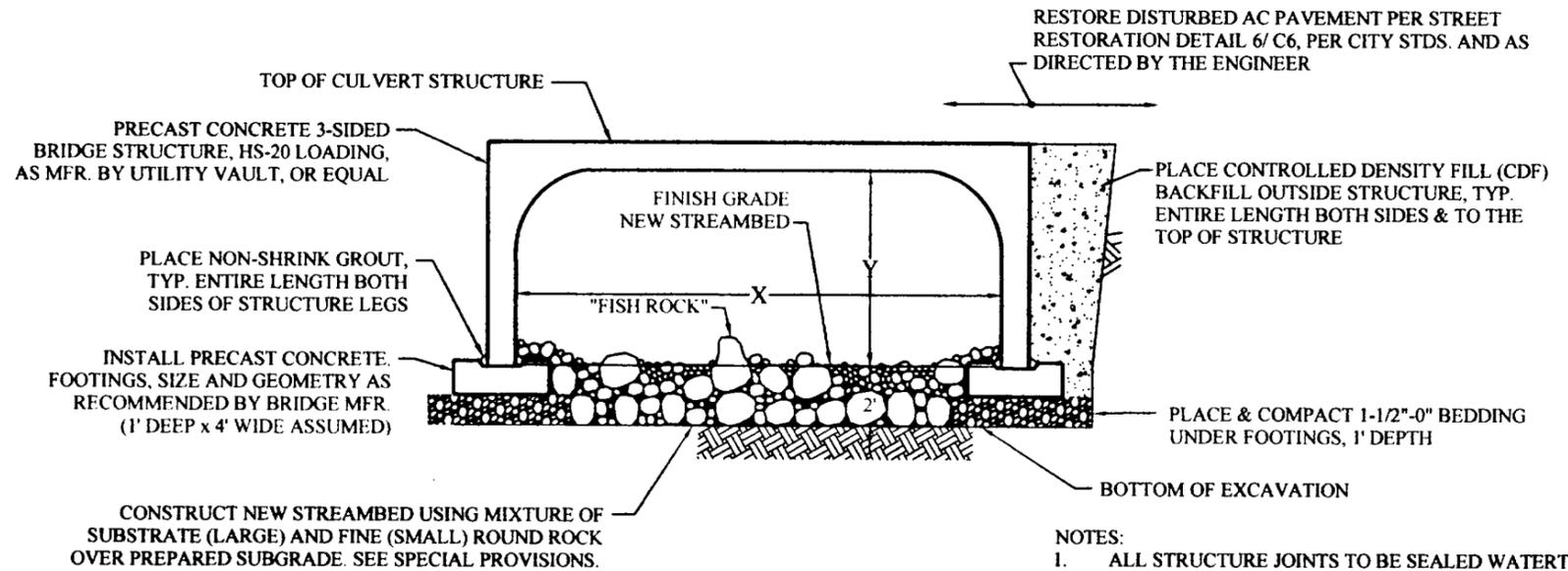
SCALE 1" = 10'



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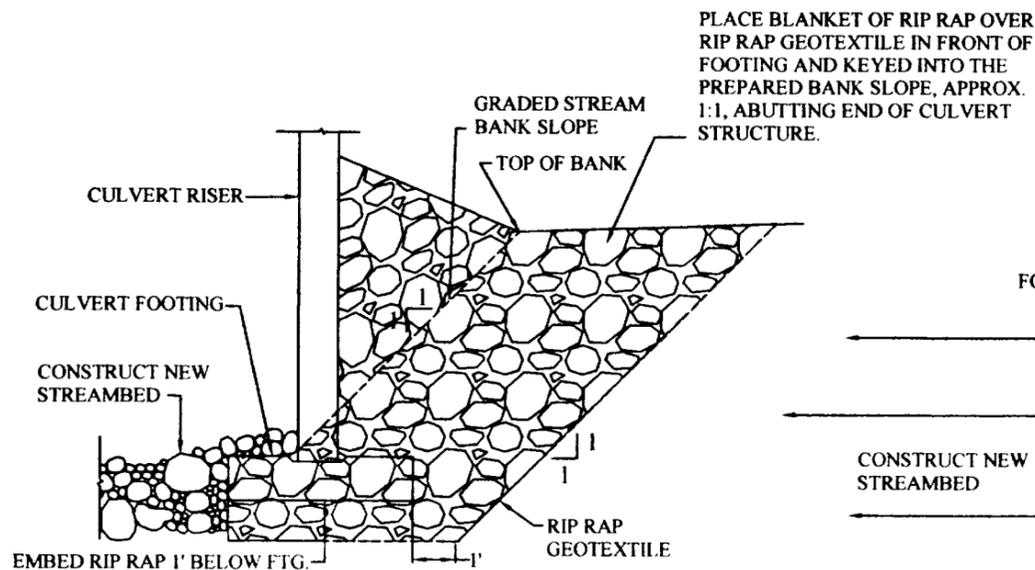
NEW CULVERT DATA			
LOCATION	SPAN (X)	RISE (Y)	TOTAL LENGTH
ELMRAN DR.	12 FT.	4 FT.	40 FT.
MAPLETON DR.	8 FT.	3 FT.	35 FT.



- NOTES:
1. ALL STRUCTURE JOINTS TO BE SEALED WATERTIGHT PER BRIDGE MFR. RECOMMENDATIONS.
 2. STRUCTURE SHALL BE INSTALLED TO THE LINE AND GRADE SHOWN ON THE PLAN AND PROFILE.
 3. FOOTINGS SHALL BE INSTALLED LEVEL IN THE "X" DIRECTION.
 4. BOTTOM OF EXCAVATION SHALL FIRM & STABLE, PLACE FOUNDATION STABILIZATION IF DIRECTED BY ENGINEER TO ACHIEVE ACCEPTABLE SUBGRADE

**DETAIL 4
NEW CULVERT
SECTION A**

NO SCALE

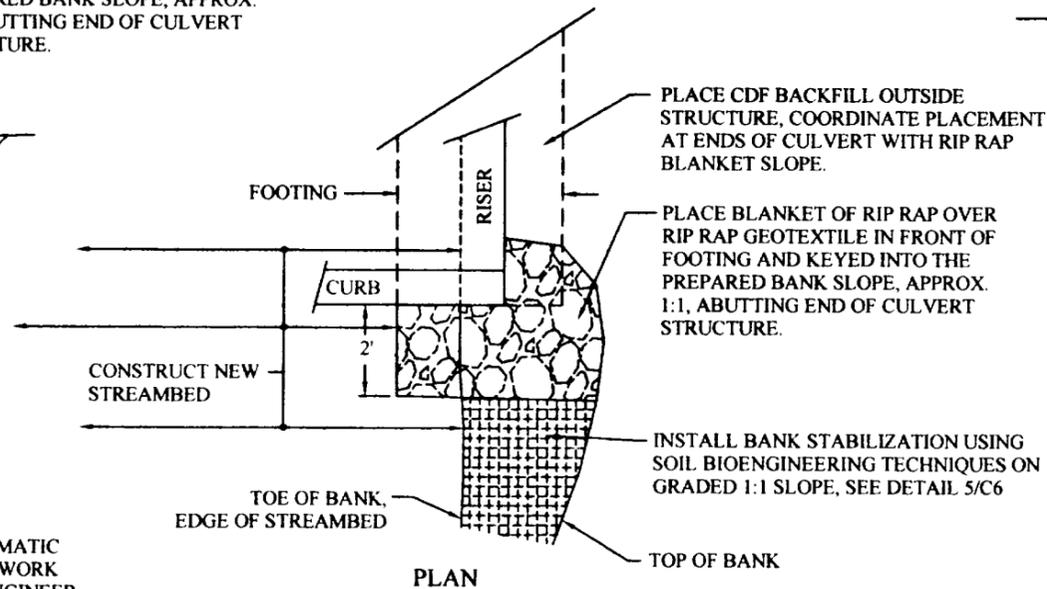


ELEVATION

NOTE: DETAIL PROVIDES SCHEMATIC ARRANGEMENT. SITE-SPECIFIC WORK MAY BE FIELD-DIRECTED BY ENGINEER.

**DETAIL 3
CULVERT END
PROTECTION DETAIL**

NO SCALE



PLAN

RECORD DRAWING

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DETAILS		CITY OF WEST LINN	
		22500 SALAMO RD. #800	
		CLACKAMAS COUNTY	OREGON
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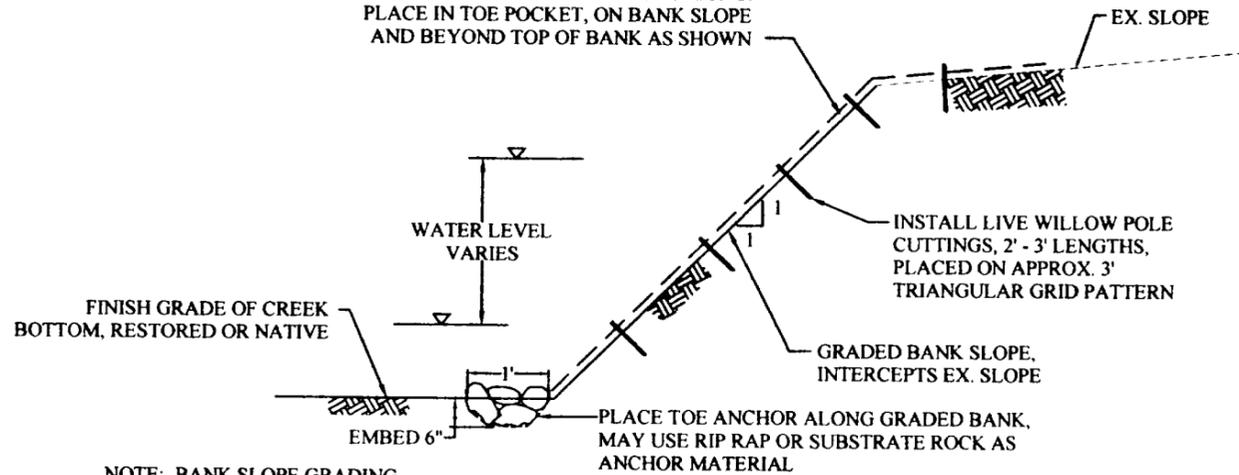
DATE
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Expires Dec. 31, 2006

IMMEDIATELY FOLLOWING GRADING,
PLACE EROSION CONTROL
SEED/FERTILIZER MIX AND INSTALL GEO
COIR 700, OR EQUAL, SECURED WITH
STAKES OR STAPLES 8" TO 12" LONG.
PLACE IN TOE POCKET, ON BANK SLOPE
AND BEYOND TOP OF BANK AS SHOWN



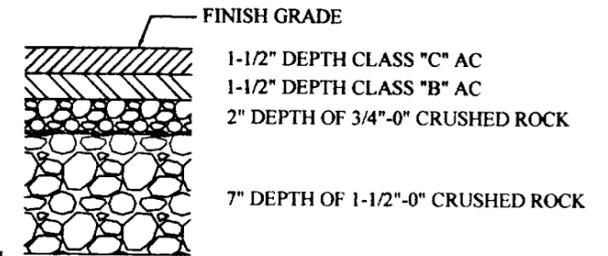
NOTE: BANK SLOPE GRADING
NEED NOT BE PRECISE,
CONFORMING IN GENERAL TO
THE ARRANGEMENT SHOWN

DETAIL 5 SOIL BIOENGINEERING BANK RESTORATION

NO SCALE

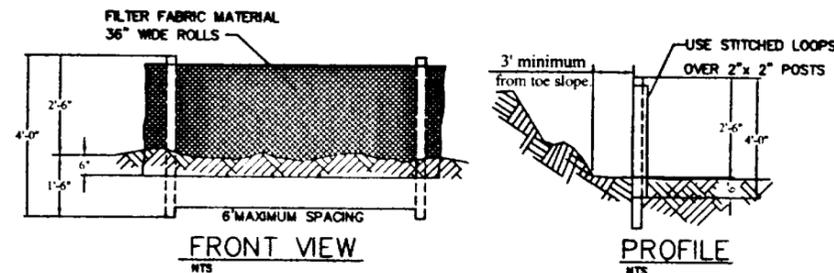
NOTE:

1. DEPTHS SHOWN ARE MINIMUM COMPACTED THICKNESS, IN PLACE.
2. PROVIDE CROWN SLOPE AND LONGITUDINAL SLOPE OF FINISH PAVEMENT CLOSELY MATCHING EXISTING PAVEMENT, UNLESS OTHERWISE DIRECTED BY ENGINEER.
3. PLACE 1-1/2"-0" CRUSHED ROCK FROM CURB TO CURB ON TOP OF NEW CULVERT, DEPTH 7" MIN. OR AS DIRECTED BY THE ENGINEER.
4. PLACE SHOULDER 1 FOOT MIN. WIDTH BEYOND EDGE OF FINISH PAVEMENT, 3/4"-0" CRUSHED ROCK MIN. 3" DEPTH.



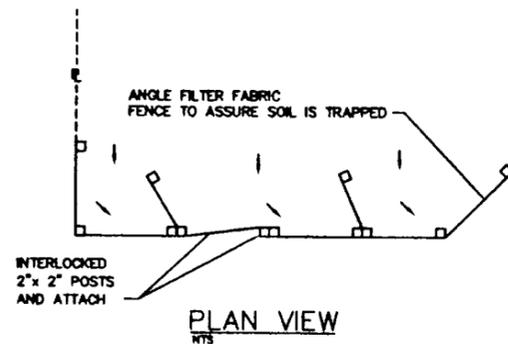
DETAIL 6 STREET RESTORATION

NO SCALE



NOTES:

1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x 2" FIR, PINE OR STEEL FENCE POSTS.
3. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
5. PANELS MUST BE PLACED ACCORDING TO SPACING TABLE 4-7.



SEDIMENT FENCE

NO SCALE

RECORD DRAWING

THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION SUBMITTED BY OTHERS. THEY INTEND TO REPRESENT REVISIONS BASED ON CONSTRUCTION RECORDS. DRAKE & ASSOCIATES HAS NOT VERIFIED THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

REVISION DATE: NOVEMBER 2004
PREPARED BY: DRAKE & ASSOCIATES

SHEET TITLE & NO.

DETAILS

C6

CITY OF WEST LINN

22500 SALAMO RD. #800

CLACKAMAS COUNTY

OREGON

ELMRAN / MAPLETON CULVERT
REPLACEMENT PROJECT

CITY PROJECTS PW0033 & PW0112

DRAKE & ASSOCIATES, LLC

CIVIL ENGINEERING SERVICES

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DATE

8-23-04

PROJECT
NO.

1000-3



Expires Dec. 31, 2006