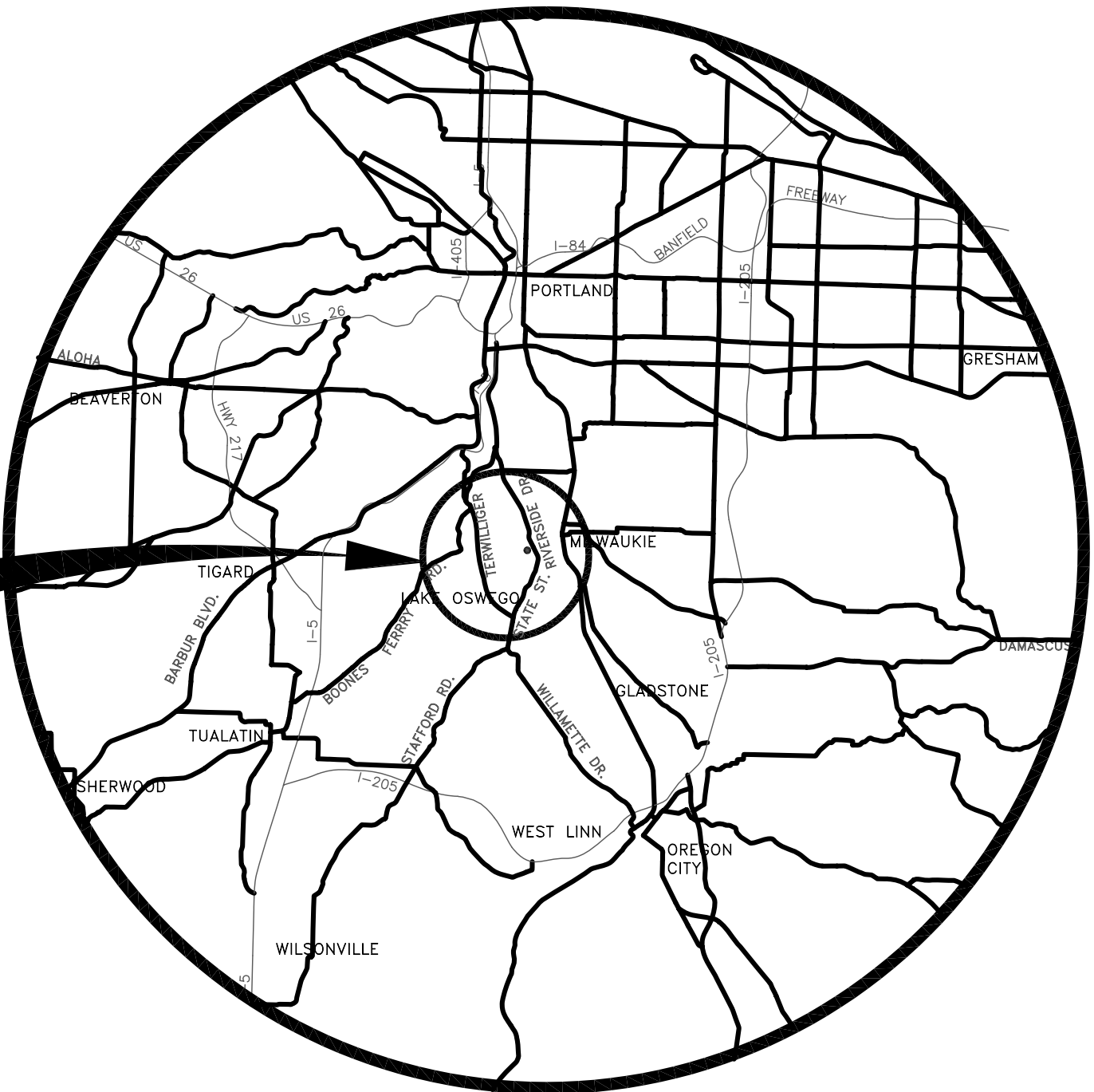


LEGEND

- PROPOSED STORM SEWER/MH
- PROPOSED SANITARY SEWER/MH
- PROPOSED INLET
- EXISTING STORM SEWER/MH
- EXISTING SANITARY SEWER/MH
- EXISTING INLET
- EXISTING HOUSE
- FIRE HYDRANT
- W12" WATER
- WATER VALVE
- GAS 2" GAS
- GAS VALVE
- ELECTRIC
- TELEPHONE
- WATER METER
- POWER POLE
- LIGHT
- CURB
- EDGE OF PAVEMENT
- EDGE OF DRIVEWAY
- TREE WITH DIAMETER IN INCHES
- DITCH OR STREAM
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE RIGHT-OF-WAY
- EDGE OF GRAVEL
- CULVERT
- WIRE FENCE

PROJECT
AREA



VICINITY MAP

SCALE: NONE

ELK ROCK BYPASS
PROJECT
BES PROJECT #8378

NOTICE TO EXCAVATORS:
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

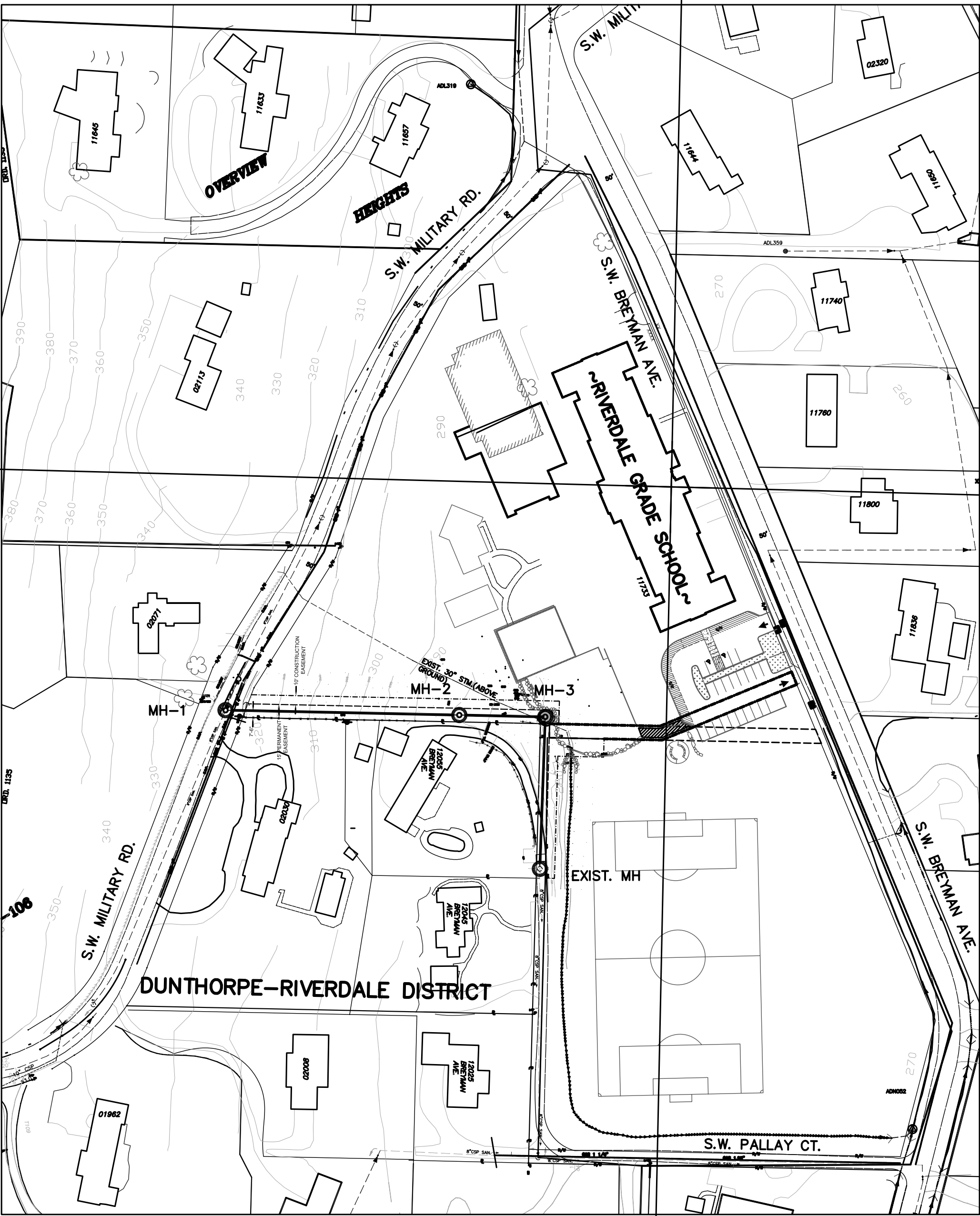
POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.

Call the Oregon One-Call Center
DIAL 811 or 1-800-332-2344

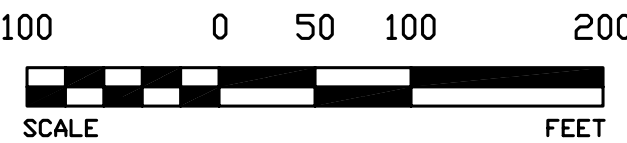
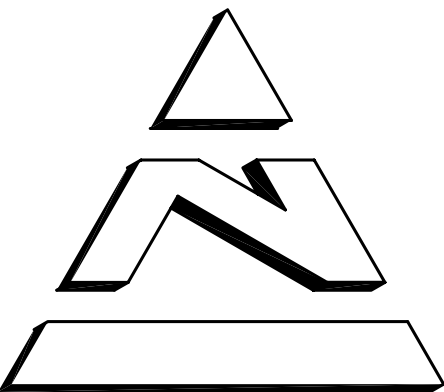
EMERGENCY TELEPHONE NUMBERS

NW NATURAL GAS
M-F 7am-6pm 503-226-4211 Ext.4313
AFTER HOURS 503-226-4211
PGE 503-464-7777
QWEST 1-800-573-1311
CITY BUREAU OF MAINTENANCE 503-823-1700
CITY WATER 503-823-4874
VERIZON 1-800-483-1000



GENERAL INSTRUCTION DURING CONSTRUCTION:

- THE CONSTRUCTION SITE IS A DENSELY WOODED AREA. CONSTRUCTION MANAGEMENT PLAN (CE03) SHOWS ALL TREES TO BE CUT.
- INSTALL MARKER BALL PER STANDARD SPEC. 0446.41 FOR ALL PIPES.
- COORDINATE WITH RIVERDALE GRADE SCHOOL CONTRACTORS.



SHEET INDEX

NO.	NAME	DESCRIPTION
1	G01	COVER SHEET
2	C01	PLAN AND PROFILE
3	C02	PLAN AND PROFILE
4	D01	DETAILS
5	CE01	EROSION CONTROL PLAN
6	CE02	EROSION CONTROL DETAILS
7	CE03	CONSTRUCTION MANAGEMENT PLAN

GENERAL NOTES:

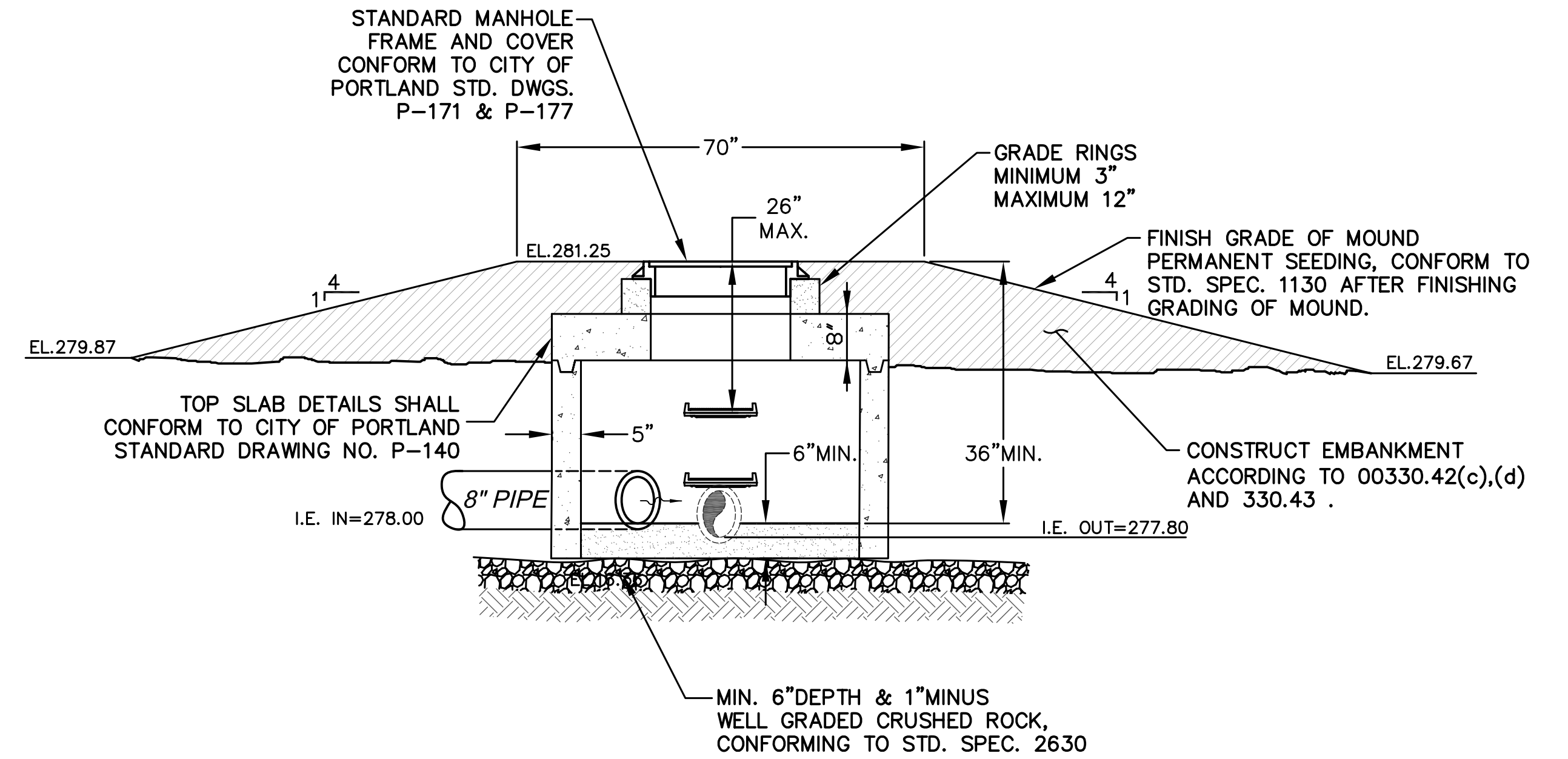
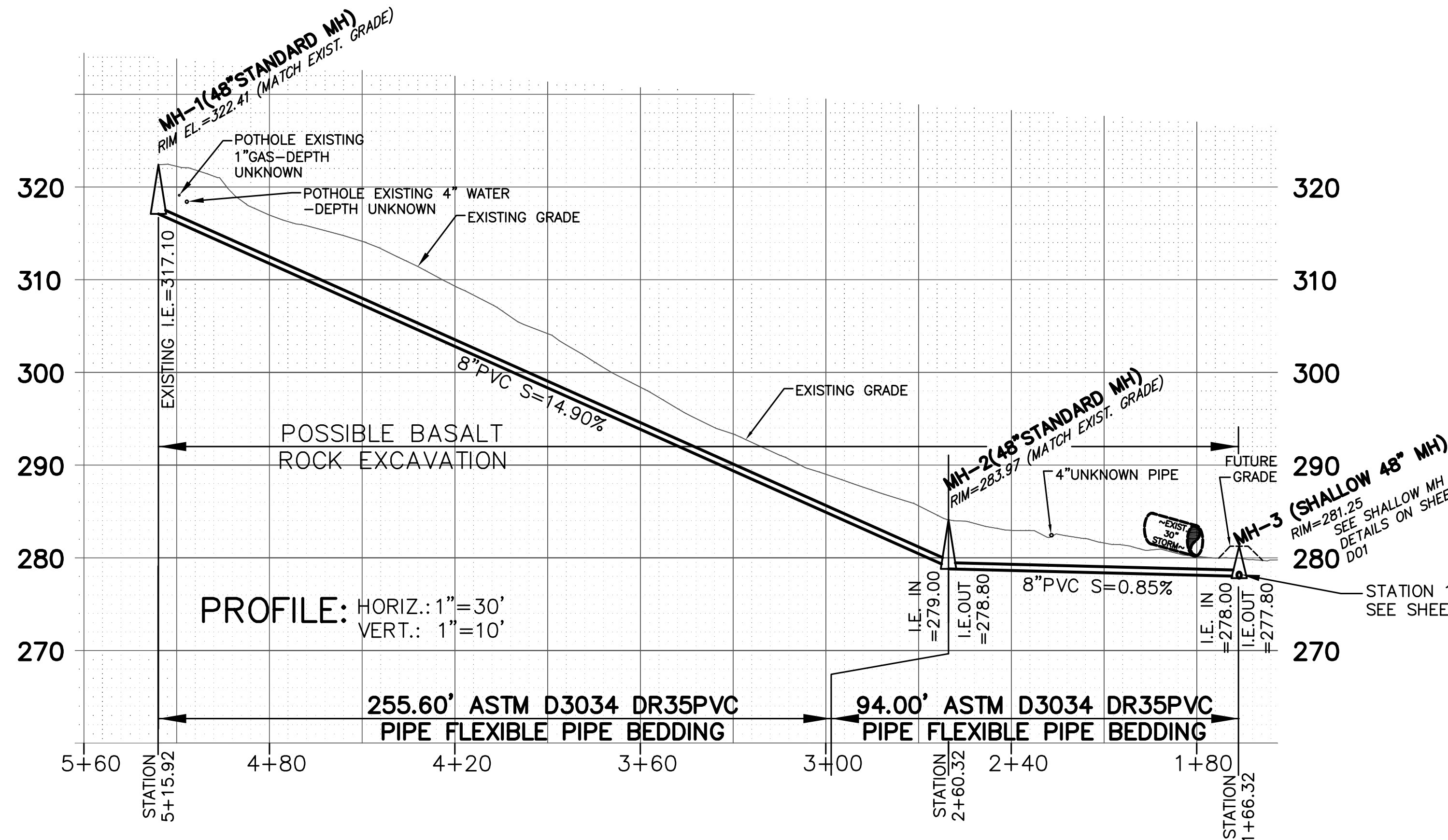
- ALL CONSTRUCTION SHALL CONFORM TO CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS, AS REVISED IN 2007.
- SITE EROSION CONTROL MUST COMPLY WITH BES "EROSION CONTROL MANUAL", MARCH 1,2008. EROSION CONTROL MUST BE IN PLACE PRIOR TO CONSTRUCTION.

DESIGN NOTES:

- THIS SANITARY SEWER BY-PASS IS BUILT TO DIVERT FLOWS FROM ELK ROCK PUMP STATION TO TRYON PUMP STATION.

C.O.P. DATUM & NAD 83-91

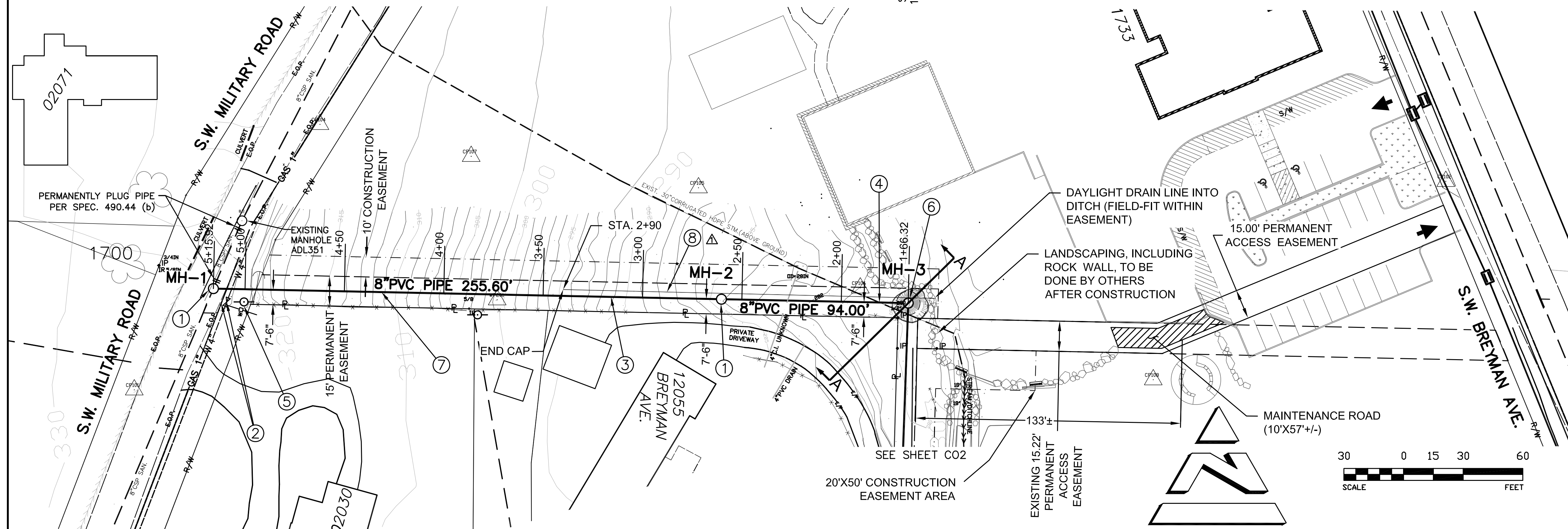
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				ROTATION ANGLE: 0°00'00"		DRAWN BY: [Signature]		PROGRAM MGR: [Signature]	
						CHECKED BY: [Signature]		CONST. MGR: [Signature]	
				PROJECT COMPLETED:		DESIGN MGR: [Signature]			
				MAP CORRECTED BY: [Signature]		CHECKED BY: [Signature]			
				FINAL MAP DATA					
NO. DATE DESCRIPTION APPD.				8378G01.DWG 12/24/09					
REVISION									
<div>CITY OF PORTLAND ENVIRONMENTAL SERVICES DAN SALTZMAN COMMISSIONER PUBLIC AFFAIRS WILLIAM F. RYAN, P.E. CHIEF ENGINEER ENVIRONMENTAL SERVICES CHIEF ENGINEER REG. PROF. ENGR. NO. 16,301</div> <div></div> <div></div> <div><div>ELK ROCK BYPASS COVER SHEET</div><div>1/4 SECTION 4231 JOB NO. E08378 SHEET NO. G01 1 OF 7</div></div>									



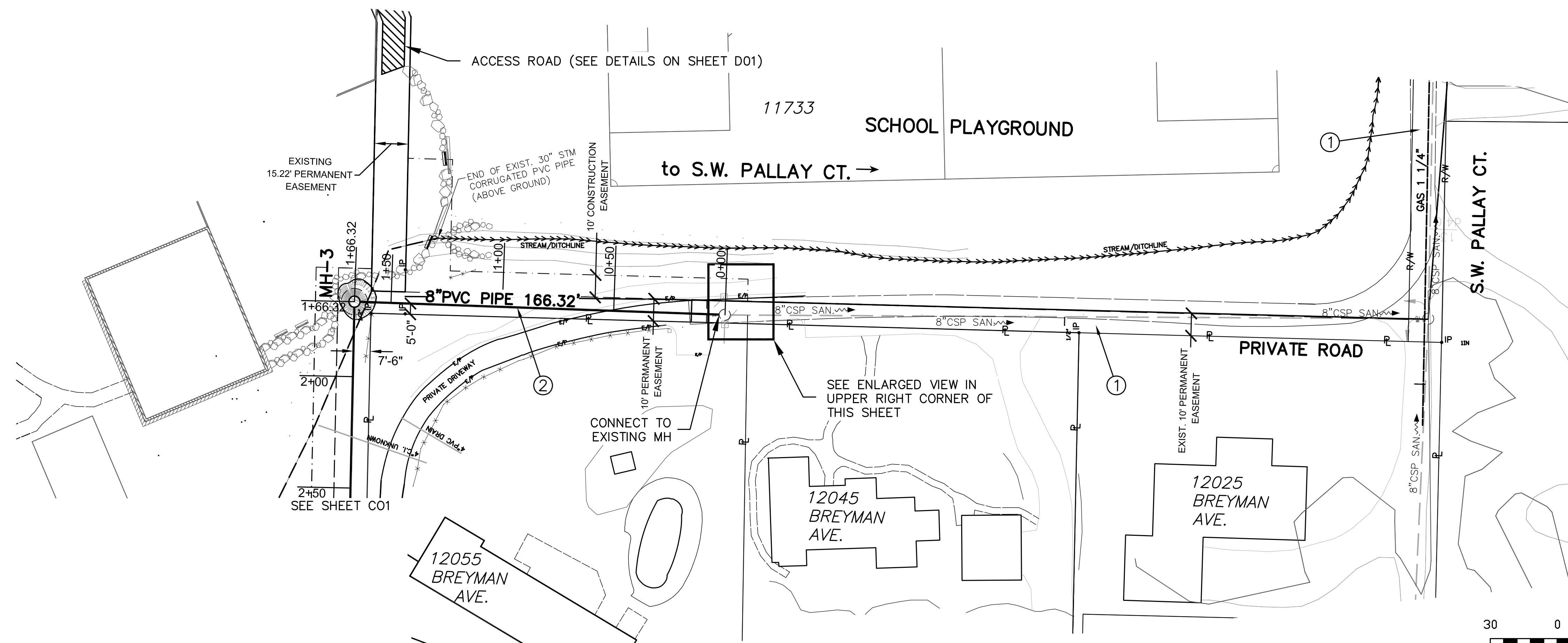
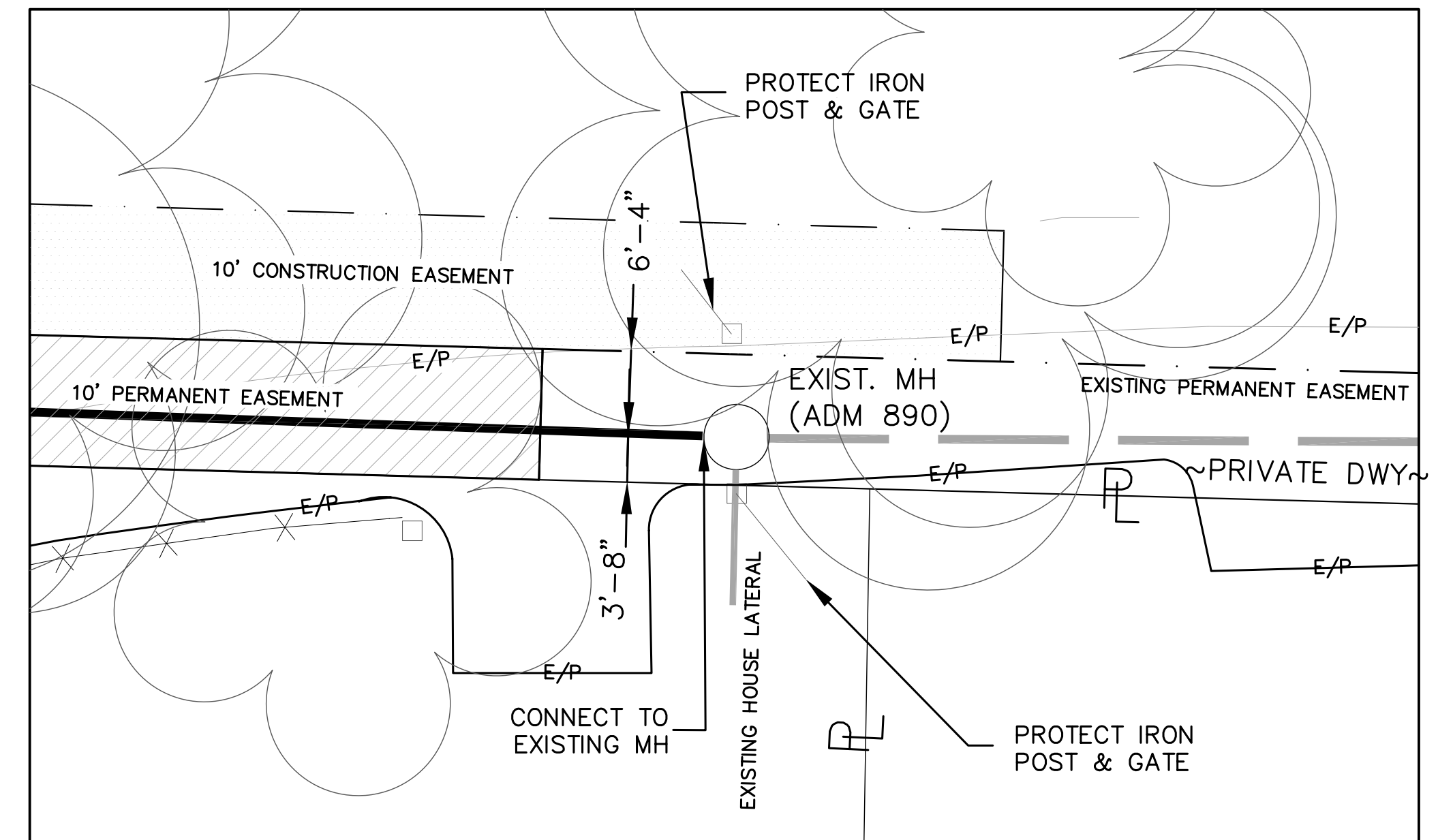
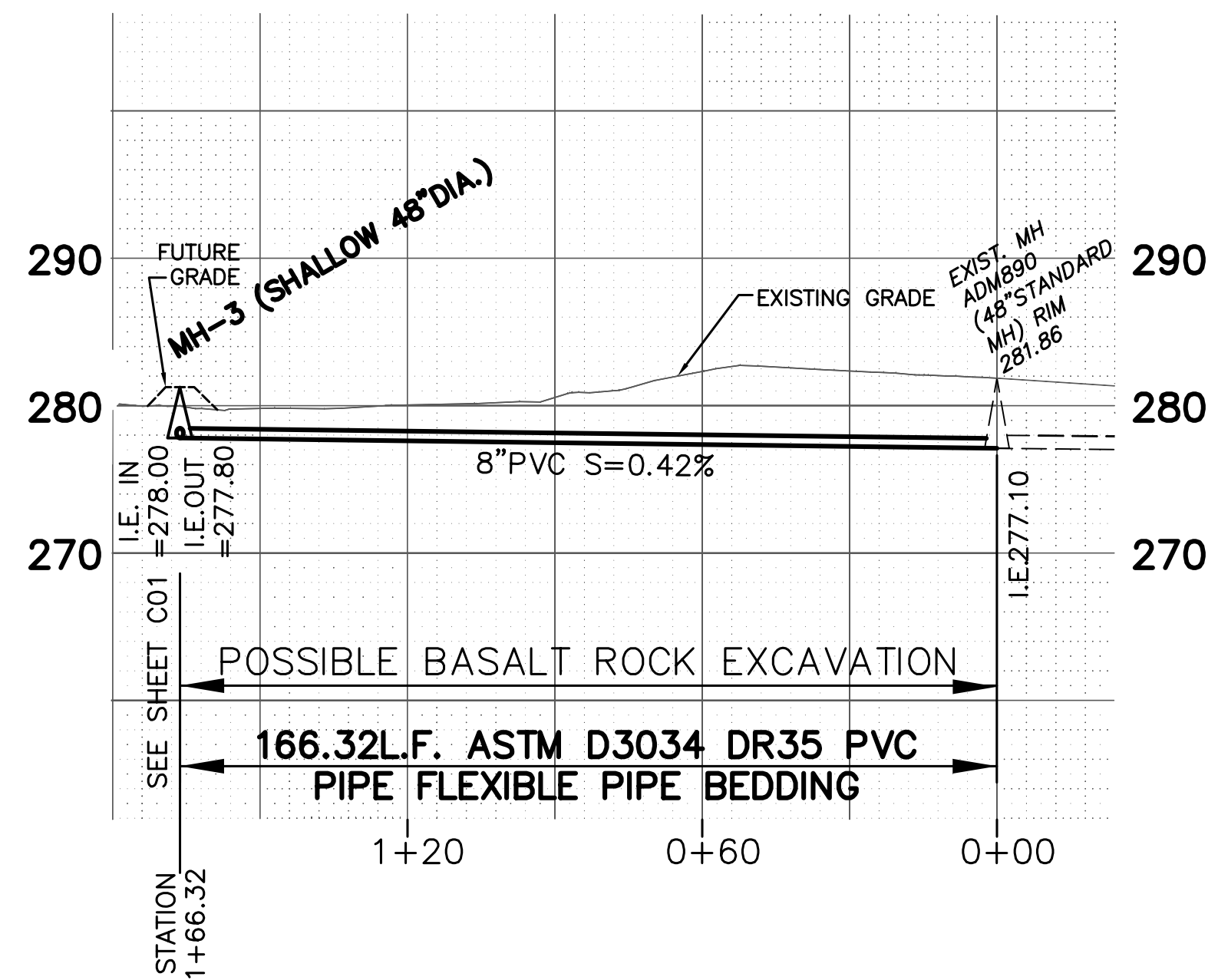
SECTION A-A
FILL DETAIL

CONSTRUCTION NOTES

- 1 CONSTRUCT STANDARD 48" MANHOLE PER STANDARD DRAWING P-150.
- 2 POT HOLE PRIOR TO CONSTRUCTION TO LOCATE THE EXISTING WATER LINE AND GAS LINE.
- 3 INSTALL METAL SLOPE ANCHORS PER STANDARD DETAIL P-104 @ FOLLOWING STATIONS OR AS DIRECTED BY ENGINEER:
STATION 4+65
STATION 4+15
STATION 3+65
STATION 3+15
- 4 30" CORRUGATED HDPE STORM PIPE (WILL BE REMOVED BY OTHERS PRIOR TO CONSTRUCTION.)
- 5 UNDERGROUND POWER - CONTACT PP&L PRIOR TO CONSTRUCTION.
- 6 CONSTRUCT SHALLOW 48" MANHOLE PER STANDARD DETAILS ON SHEET D01.
- 7 INSTALL 6" OF SELECTED TOPSOIL (SPEC. 1040.14(a)) OVER BACKFILL AREAS TO FINISHED GRADE.
- 8 INSTALL 3" PERFORATED DRAIN LINE PARALLEL TO 8" SEWER. MATCH SPRINGLINES.

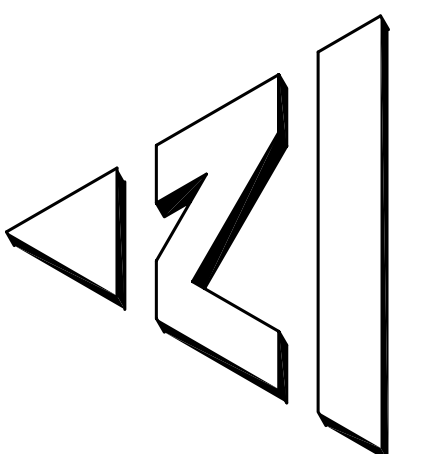
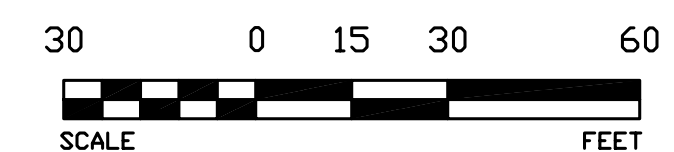


<div>02/19/10</div> <div>ADDED 3"PERFORATED DRAIN</div>		<div>XREF(S) USED: X8378</div> <div>ROTATION ANGLE: 0°00'00"</div>		<div>DESIGNED BY</div> <div>DATE APPD.</div>		<div>CITY OF PORTLAND</div> <div>ENVIRONMENTAL SERVICES</div>		<div></div>		<div></div>		<div>ELK ROCK BYPASS</div> <div>PLAN AND PROFILE</div>		<div>1/4 SECTION</div> <div>4231</div>							
<div>NO.</div> <div>DATE</div> <div>DESCRIPTION</div> <div>APPD.</div>		<div>CONSTRUCTED BY</div> <div>PROJECT COMPLETED</div> <div>MAP CORRECTED BY</div> <div>CHECKED BY</div> <div>DESIGN MGR.</div>		<div>DRAWN BY</div> <div>PROGRAM MGR</div> <div>CHECKED BY</div> <div>CONST. MGR.</div>										<div>JOB NO.</div> <div>E08378</div> <div>SHEET NO.</div> <div>C01</div> <div>2 OF 7</div>							
<div>REVISION</div>														<div>8378C01.DWG 02/19/10</div>							

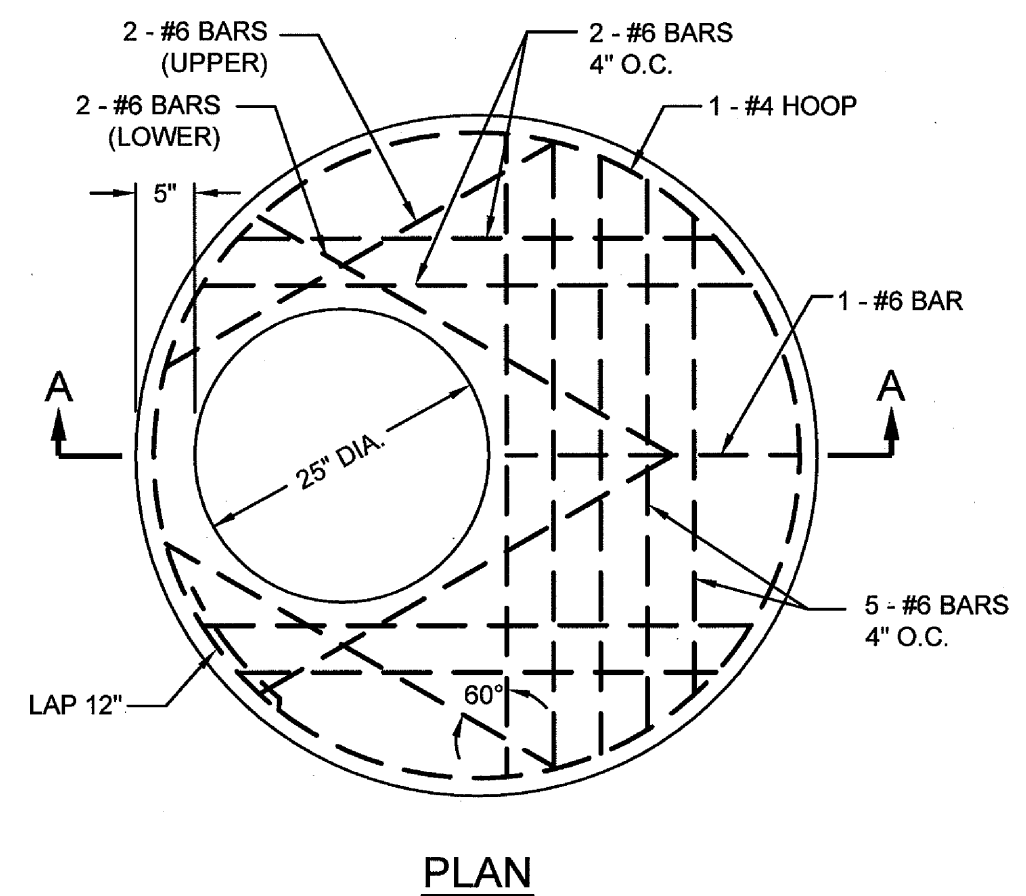


- CONSTRUCTION NOTE

- ① NO CONSTRUCTION ACCESS ALLOWED ON PRIVATE DRIVEWAY & S.W. PALLAY C FROM BREYMAN AVE.
- ② INSTALL 6" OF SELECTED TOPSOIL (SPEC. 1040.14(A)) OVER BACKFILL AREAS TO FINISHED GRADE.



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PLAN

- CONCRETE SHALL BE STRUCTURAL CONCRETE HAVING A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- REINFORCEMENT SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI (GRADE 60).
- LAP SPLICES SHALL BE A MINIMUM OF 24 BAR DIAMETERS IN LENGTH UNLESS OTHERWISE NOTED.
- ALL REINFORCING HOOPS AND BARS SHALL HAVE A MINIMUM 1½" CLEARANCE TO OUTSIDE SURFACES, INCLUDING TO THE INSIDE FACE AT OPENING.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.

Manufacturing Standards for Precast Concrete Products



Bureau of Environmental Services
CITY OF PORTLAND, OREGON
William F. Ry...
Chief Engineer

Calc. Book No.
001

Effective Date
01-01-09

91 91 99

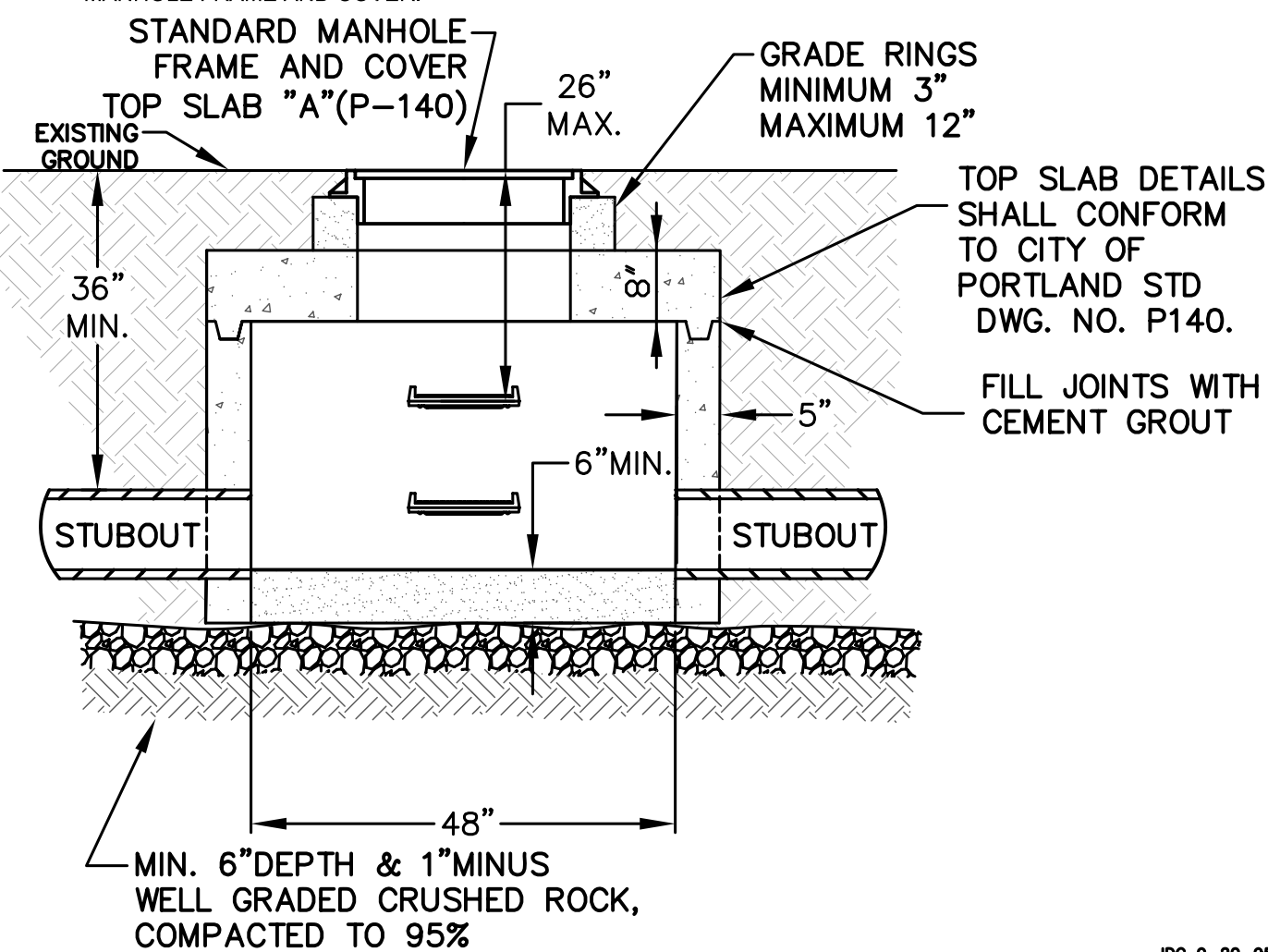
Standard Drawing No.

P-140

A_P140_TOP_SLAB_A.DWG 4/6/09 4:32 PM RICKS



1. ALL PRECAST CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF PORTLAND MANUFACTURING STANDARDS FOR PRECAST CONCRETE PRODUCTS (MSPCP), AS REVISED.
2. CAST-IN-PLACE CONCRETE SHALL BE STRUCTURAL CONCRETE HAVING A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
3. ALL CONNECTING PIPE SHALL HAVE A FLEXIBLE JOINT WITHIN 18" OF OUTSIDE WALL OF MANHOLE OR WITHIN ONE HALF THE DIAMETER IN LENGTH IF THE PIPE IS OVER 36" IN DIAMETER.
4. ALL PRECAST CONCRETE SECTIONS SHALL HAVE KEYS OR BELL & SPIGOT JOINTS AND USE PREFORMED PLASTIC SEALS (MASTIC) OR PREFORMED RUBBER GASKET SEALS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
5. MANHOLE STEPS SHALL BE PLACED A MINIMUM OF 5" FROM PRECAST SECTION JOINT.
6. INLET LEADS SHALL BE CONNECTED 8" BELOW RIM OR 14" ABOVE LOWEST PIPE INVERT (WHICHEVER IS LESS), UNLESS SHOWN OTHERWISE ON THE PLANS. IN ALL CASES INLET LEADS SHALL BE CONNECTED BELOW THE CONE SECTION, A MINIMUM OF 8" CLEAR OF A PRECAST SECTION JOINT AND 12" CLEAR OF JOINT IN BASE SECTION (60"-144" MANHOLES).
7. FORM AND POUR A 4"x4" EXTERIOR CONCRETE COLLAR AROUND PIPE CONNECTIONS TO 60"-144" MANHOLE.
8. WHEN CONNECTING PIPE OR THROUGH PIPE IS LESS THAN 48" DIAMETER, USE STANDARD 24" MANHOLE FRAME AND COVER.



JDC 9-20-95

DEPARTMENT OF PUBLIC WORKS CITY OF PORTLAND, OREGON

TITLE OF STANDARD PLAN

SHALLOW MANHOLE DETAILS

STANDARD PLAN NO.

APPROVED

NO.

VISIONS

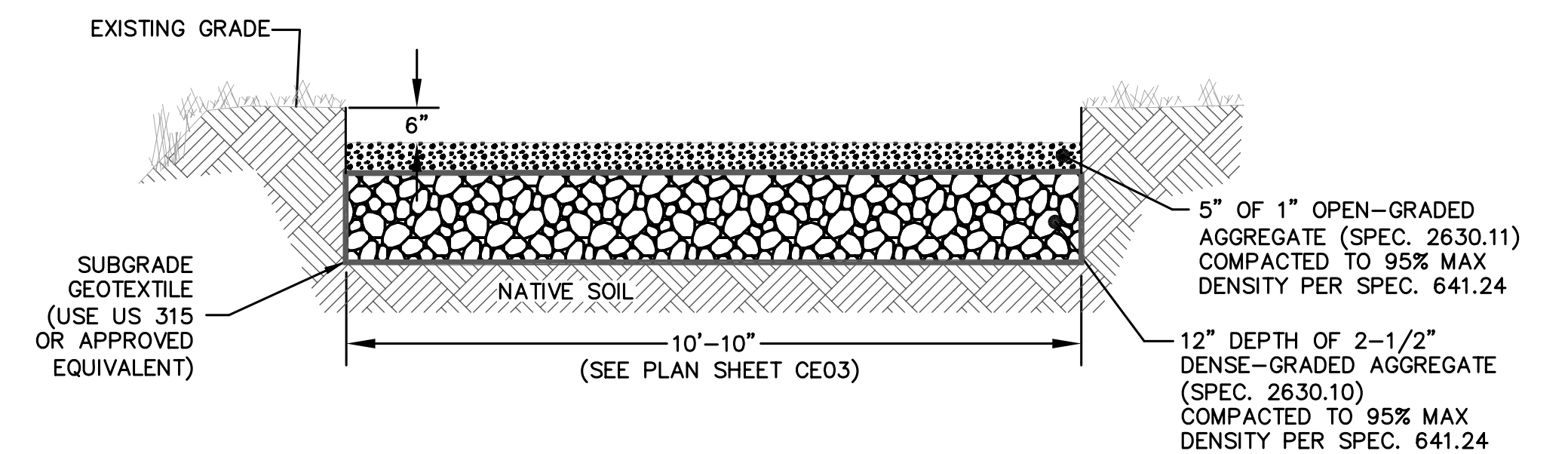
DATE _____

BY _____

SPECIAL

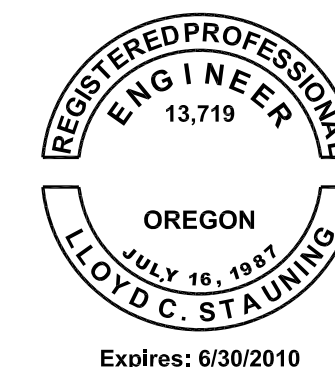
SECTION DETAILS
MAINTENANCE ACCESS ROAD

NOT TO SCALE



			XREF(S) USED: X8378	DESIGNED BY	SMS	DATE APPD.
			ROTATION ANGLE: 0'00'00"	DRAWN BY	JTO	PROGRAM MGR
			CONSTRUCTED BY _____	CHECKED BY	LCS	CONST. MGR.
			PROJECT COMPLETED _____	MAP CORRECTED BY _____ CHECKED BY _____		
			FINAL MAP DATA	DESIGN MGR.	LCS	
NO.	DATE	DESCRIPTION	APPD.			
REVISION				8378D01.DWG 12/24/09		

— CITY OF PORTLAND —
ENVIRONMENTAL SERVICES



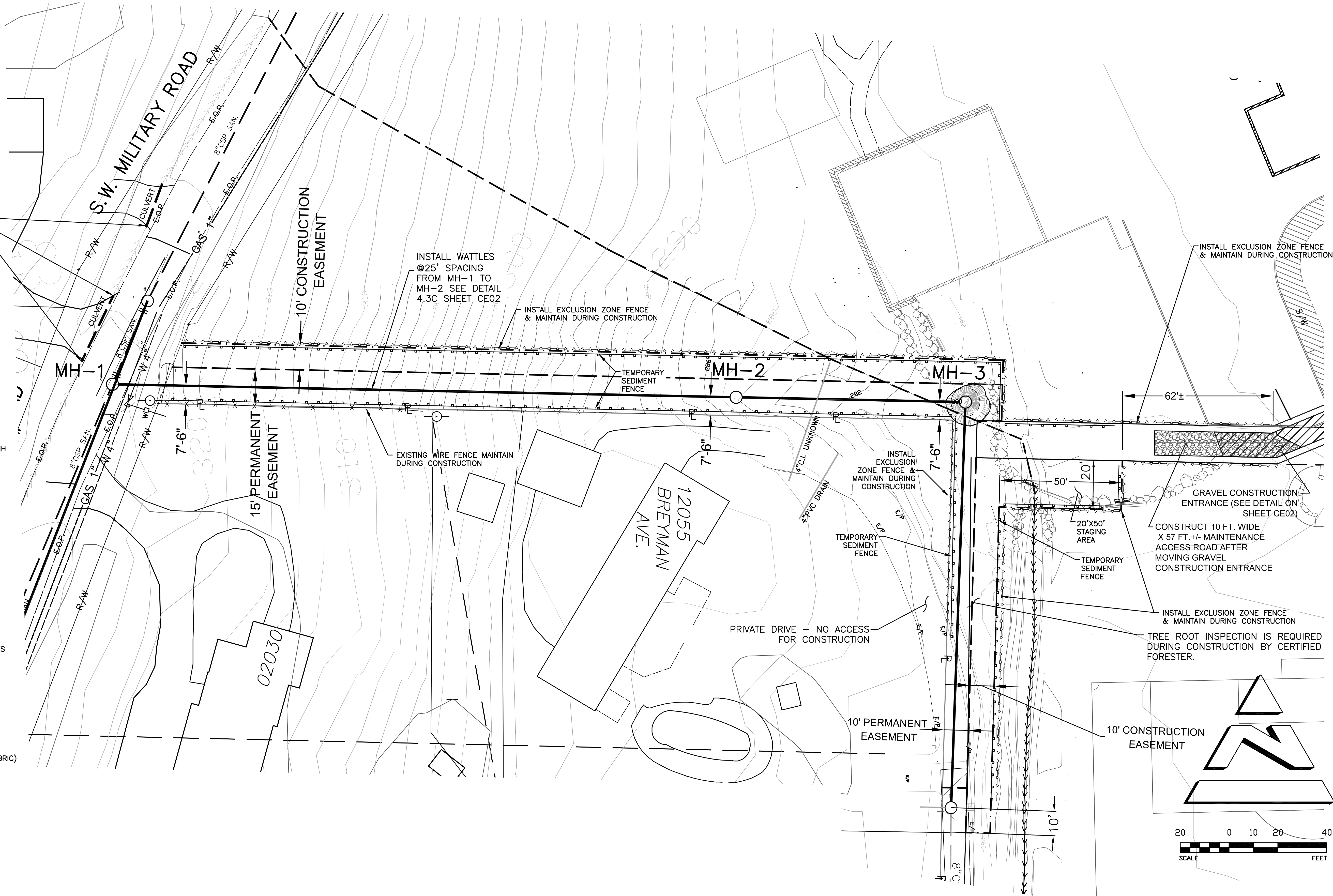
ELK ROCK BYPASS DETAILS

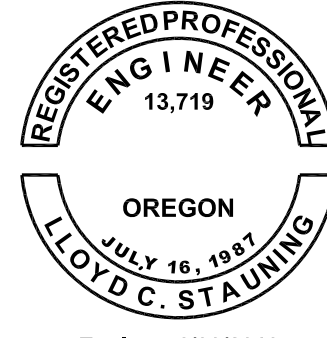
4 SECTION	4231
B NO.	08378
EET NO.	D01
OF	7

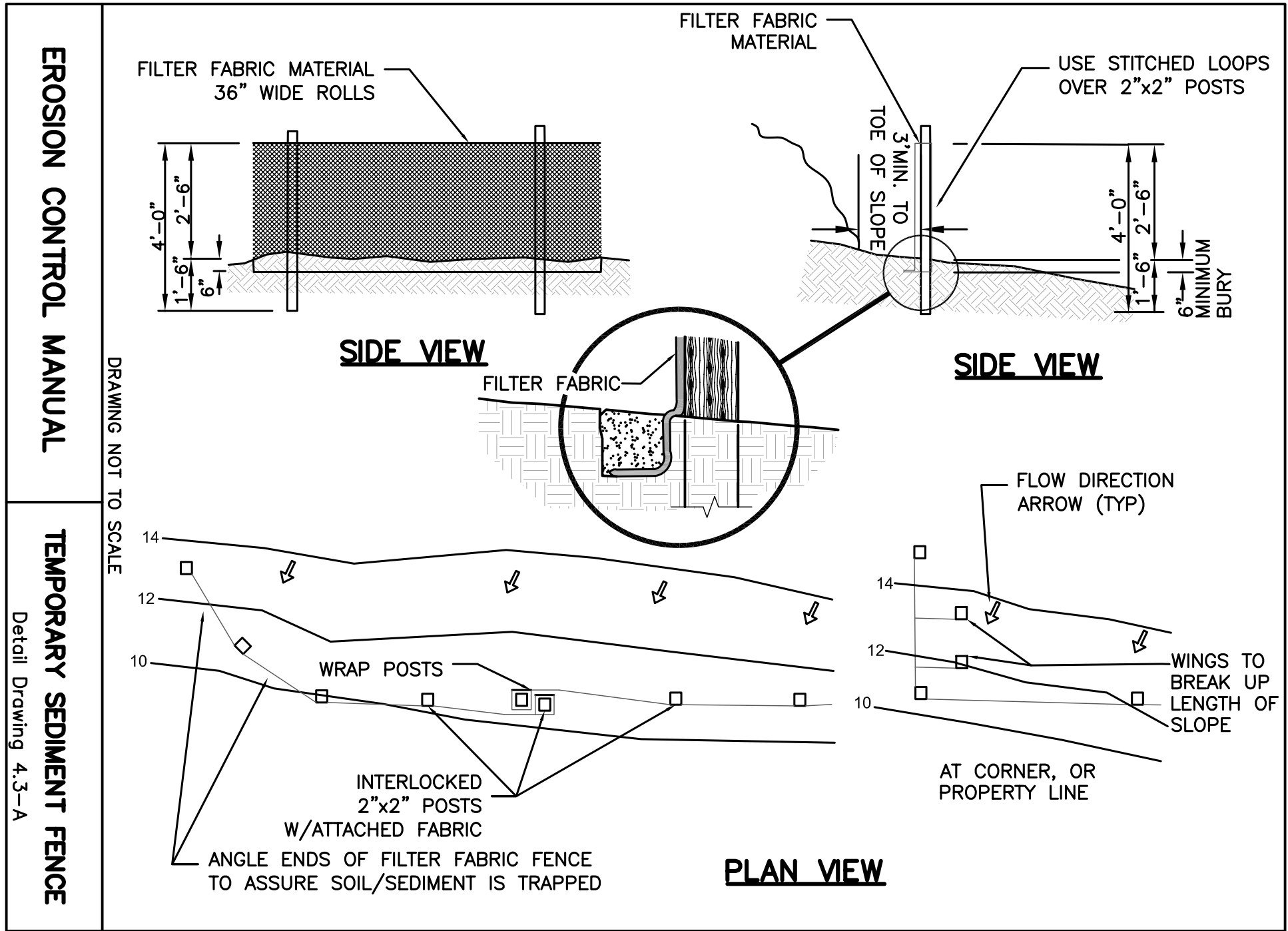
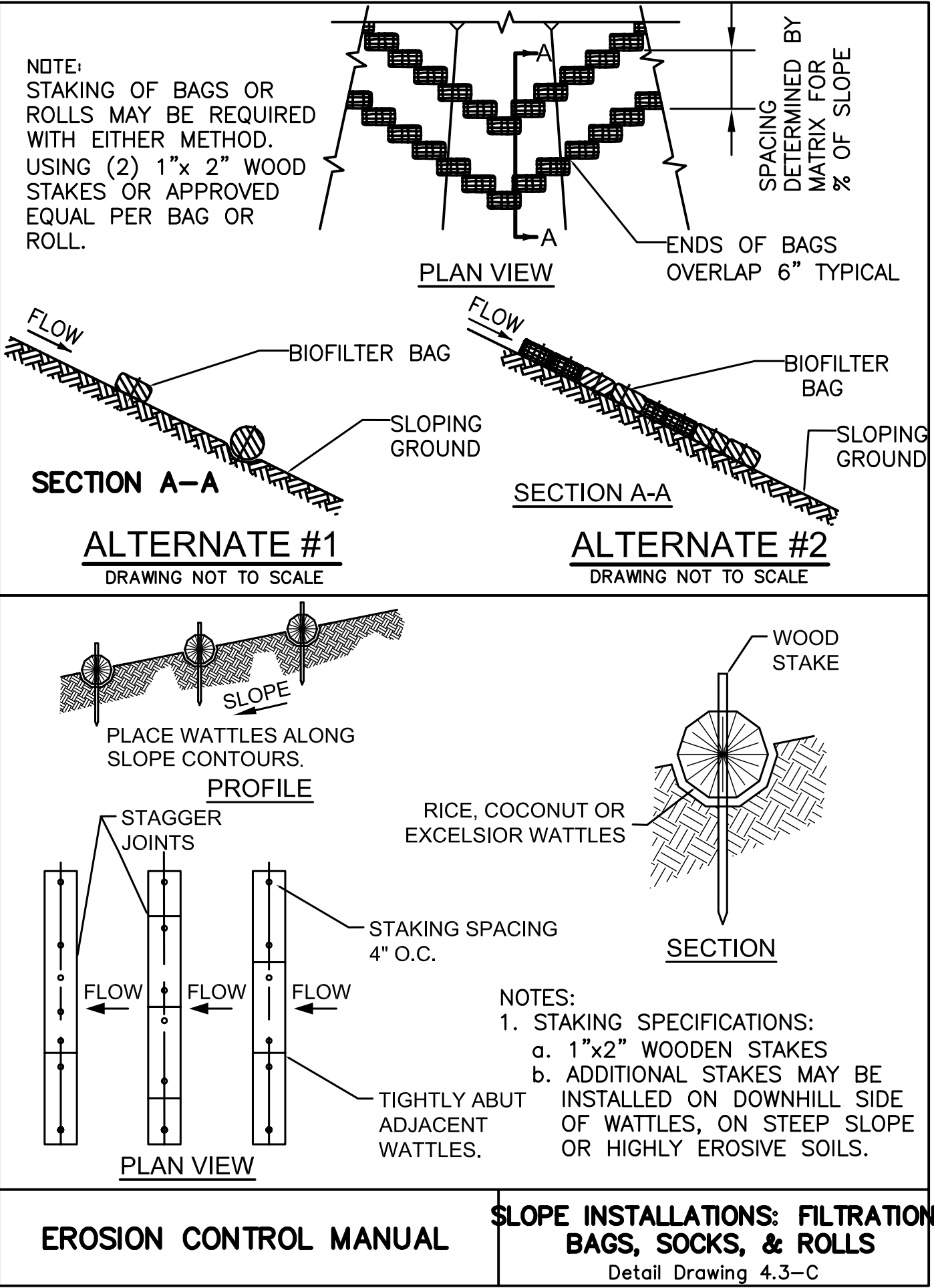
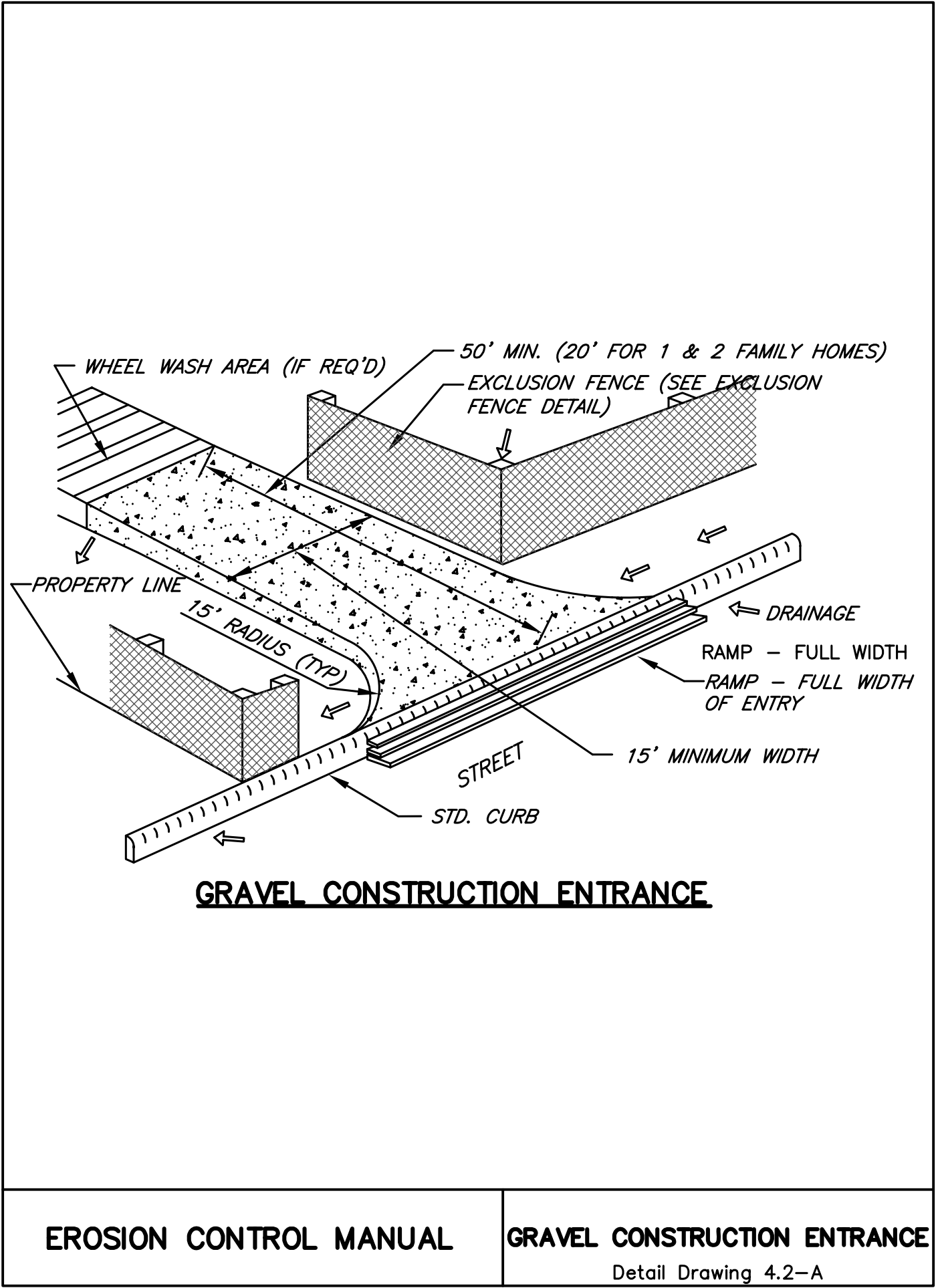
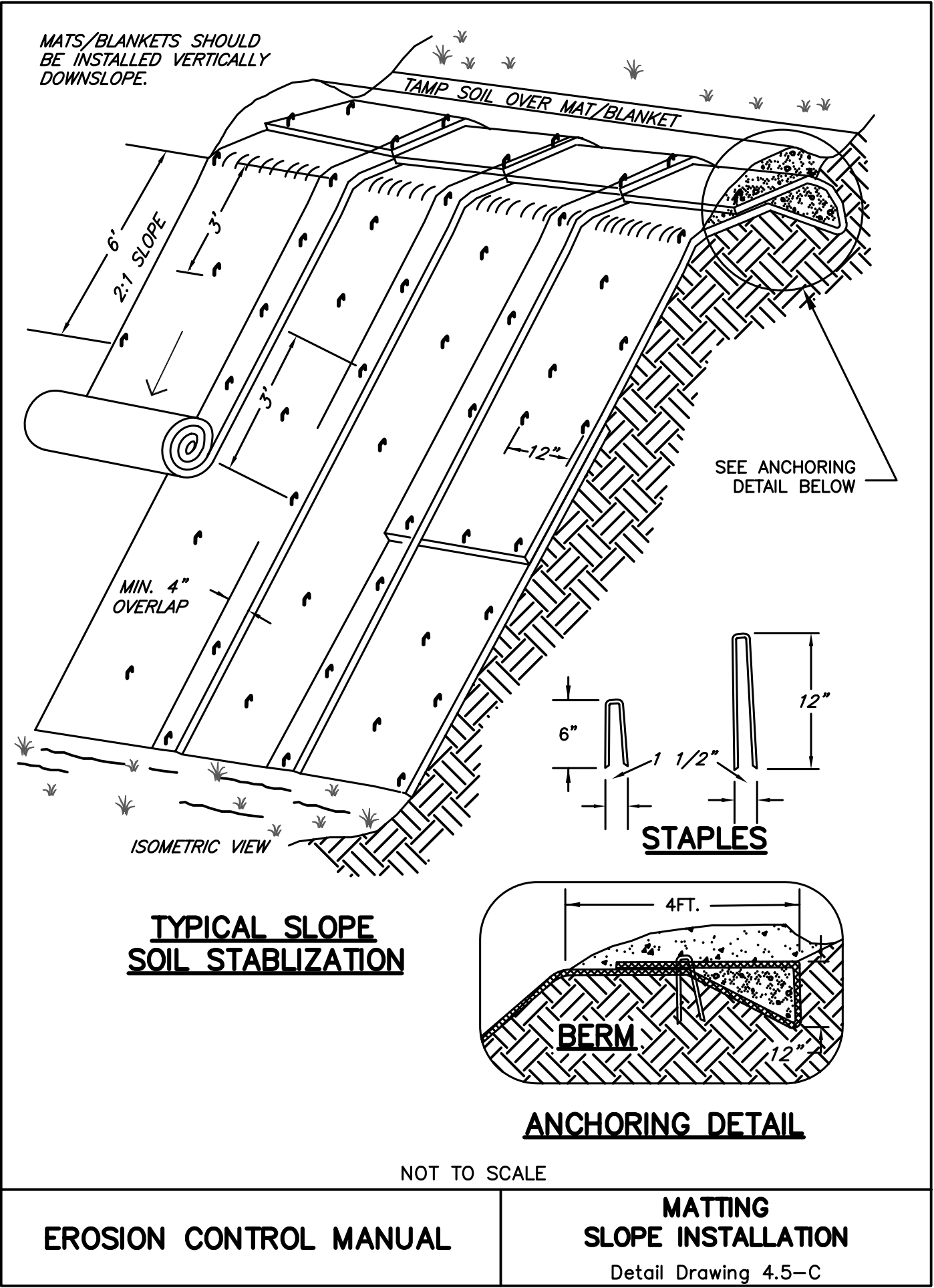
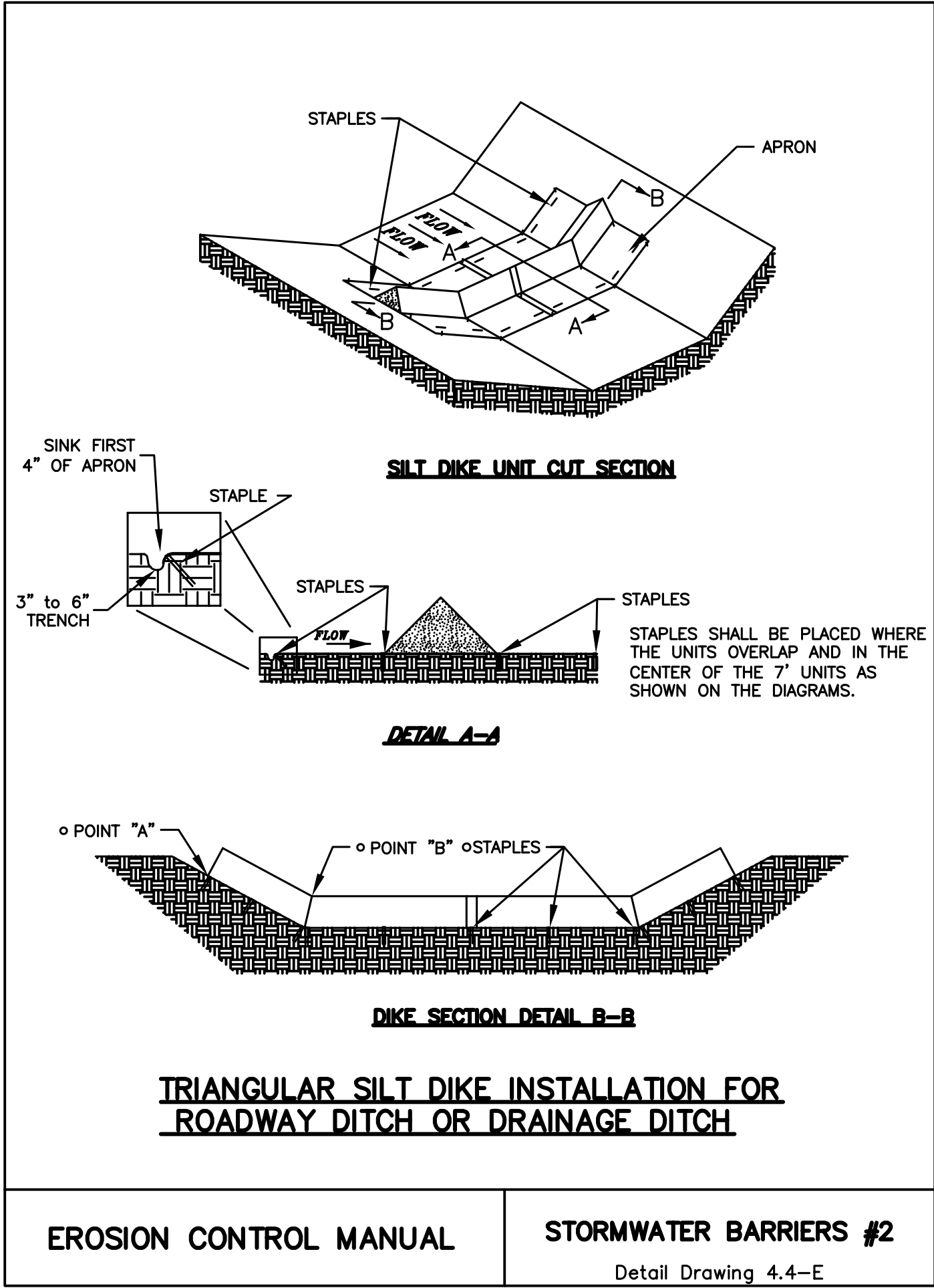
SEE STORMWATER BARRIERS
#2 DETAIL ON SHEET
CE02 DRAWING 4.4-E

LEGEND

- PROPOSED STORM SEWER/MH
- PROPOSED SANITARY SEWER/MH
- PROPOSED INLET
- EXISTING STORM SEWER/MH
- EXISTING SANITARY SEWER/MH
- EXISTING INLET
- EXISTING HOUSE
- FIRE HYDRANT
- WATER
- WATER VALVE
- GAS 2"
- GAS VALVE
- ELECTRIC
- TELEPHONE
- WATER METER
- POWER POLE
- LIGHT
- CURB
- EDGE OF PAVEMENT
- EDGE OF DRIVEWAY
- TREE WITH DIAMETER IN INCHES
- DITCH OR STREAM
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE RIGHT-OF-WAY
- EDGE OF GRAVEL
- CULVERT
- WIRE FENCE
- BIOFILTER BAG
- INLET PROTECTION (FILTER FABRIC)
- SEDIMENT FENCE
- TREE TO BE REMOVED
- TREE TO BE SAVED
- DITCH
- EXCLUSION ZONE FENCE



				XREF(S) USED: X8378		DESIGNED BY	DATE APPD.	CITY OF PORTLAND ENVIRONMENTAL SERVICES				ELK ROCK BYPASS EROSION CONTROL PLAN		1/4 SECTION 4231 JOB NO. E08378 SHEET NO. CE01 5 OF 7							
				ROTATION ANGLE: 0°00'00"		DRAWN BY	PROGRAM MGR														
				CONSTRUCTED BY		CHECKED BY	CONST. MGR.	LCS	SMS	JUC	STC										
				PROJECT COMPLETED		DESIGN MGR.															
				MAP CORRECTED BY		CHECKED BY		LCS	SMS	JUC	STC										
				FINAL MAP DATA																	
				8378CE01.DWG 12/24/09																	
NO.	DATE	DESCRIPTION	APPD.																		
				REVISION																	



GENERAL EROSION CONTROL PLAN NOTES

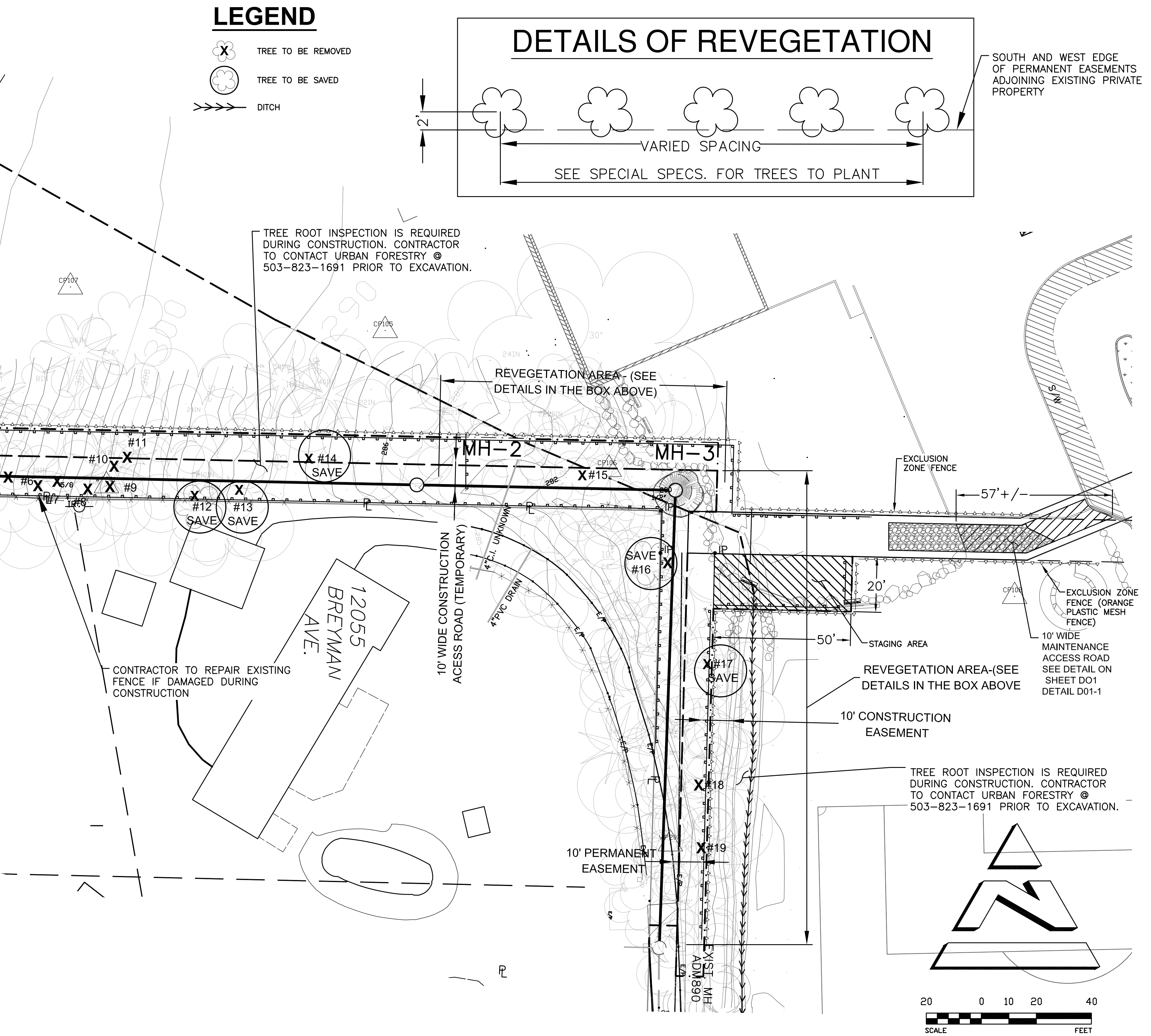
1. APPROVAL OF THIS EROSION AND SEDIMENT CONTROL PLAN (ESCP) DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTIONS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
2. THE IMPLEMENTATION OF THIS ESCP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESCP FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
3. THE ESCP FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
4. THE ESCP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESCP FACILITIES SHALL BE UPGRADED AS NEEDED FOR THE UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.
5. THE ESCP FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
6. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
7. ALL SOIL DEPOSITED ON THE STREET THAT IS CAUSED BY CONSTRUCTION IN THE STREET SHALL IMMEDIATELY BE SWEEPED UP OR OTHERWISE CLEANED UP TO PREVENT IT FROM BEING WASHED AWAY OR TRACKED AWAY BY PEDESTRIAN OR VEHICULAR TRAFFIC.

EXISTING TREE STATUS							
NO.	DIA.	10"-12"	13"-23"	24"±	ASH	MAPLE	DOUGLAS FIR
1	12	1			1		
2	23		1				1
3	15		1			1	
4	26			1	1		
5	14		1		1		
6	10	1			1		
7	12	1			1		
8	10	1			1		
9	14		1		1		
10	12	1			1		
11	24			1			1
12	14		SAVE				SAVE
13	14		SAVE				SAVE
14	16		SAVE		SAVE		
15	14		1		1		
16	12	SAVE			SAVE		
17	14		SAVE		SAVE		
18	14		1		1		
19	12	1			1		
TOTAL		6	6	2	14	1	3

- CONSTRUCTION RESTORATION NOTES
- ALL DISTURBED AREAS IN UNIMPROVED AREAS SHALL BE RESTORED BY ONE OF THE FOLLOWING METHODS AFTER APPLYING 6" OF SELECTED TOPSOIL (SPEC. 1040.14(a)).
- RESTORATION OF SLOPED AREAS (FROM MH-1 TO MH-2) :
MATTING (SPEC. 280.46(i)) LANDLOK 407 OR EQUIVALENT (DETAILS IN SHEET CE02) WITH OWNER SUPPLIED SEED. SEEDING SHALL BE SPREAD BY THE METHOD "D" IN SPEC. 1040.48 (d)
 - RESTORATION OF FLAT AREAS (FROM MH-2 TO EXISTING MH) :
STRAW MULCH (SPEC. 1030.15) WITH OWNER SUPPLIED SEED. SEEDING SHALL BE SPREAD BY THE METHOD "D" IN SPEC. 1040.48 (d)


- CONSTRUCTION NOTE:
- RIVERDALE SCHOOL RECONSTRUCTION PROJECT (PRIVATE) IS IN CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE PRIVATE CONTRACTOR OF THE SCHOOL PROJECT CLOSELY.
 - CONTRACTOR TO PROTECT ALL EXISTING A/C SURFACES. PAINT MARKINGS ON PARKING LOT, AND SCHOOL STRUCTURE. REPAIR OF ANY DAMAGES WILL BE CONTRACTOR'S RESPONSIBILITY.

		XREF(S) USED: X8378		DESIGNED BY	DATE APPD.
		ROTATION ANGLE: 0°00'00"		DRAWN BY	PROGRAM MGR
		CONSTRUCTED BY		CHECKED BY	CONST. MGR.
		PROJECT COMPLETED		DESIGN MGR.	
		MAP CORRECTED BY			
		CHECKED BY			
		FINAL MAP DATA			
		8378CE03.DWG 12/24/09			
NO.	DATE	DESCRIPTION	APPD.		
		REVISION			



CITY OF PORTLAND

ENVIRONMENTAL SERVICES



REGISTERED PROFESSIONAL ENGINEER

13,719

OREGON

JULY 16, 1987

LLOYD C. STANNING

Expires: 6/30/2010

ELK ROCK BYPASS

CONSTRUCTION MANAGEMENT PLAN

1/4 SECTION 4231

JOB NO. E08378

SHEET NO. CE03

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