RUN NO. DEPTH REC RQD
1-HQ 10.5'-15' 100% 98%
2-HQ 15'-20' 100% 100%
BEND SE INTERCEPTOR
B-2-10 5/3/10
Box 1/2
HQ TOP
15.0

RUN NO. DEPTH REC RQD
3-HQ 20'-25' 100% 89%
4-HQ 25-30' 100% 93%
BEND SE INTERCEPTOR
B-2-10 5/3/10 Box 2/2
HQ TOP
20.0
25.0

RUN NO. DEPTH REC RQD
1-HQ 4.5'-9.5' 80% 40%
2-HQ 9.5'-14.5 100% 89%
BEND SE INTERCOOLER
B-10-10 5/4/10
Box 1/2
HQ TOP
PROJECT
FROM
TO
BOX NO.

RUN NO. DEPTH REC RQD
3 HQ 14.5-19.5 100% 70%
BEND SE INTERCOOLER
B-10-10 5/4/10
Box 2/2
HQ TOP
HQ BTM

RUN NO. DEPTH REC RQD
1-HQ 4'-9' 100% 87%
2-HQ 9'-14' 100% 97%
BEND SE INTERCEPTOR
B-14-10 5/4/10
Box 1/2
HQ TOP
9.0
14.0

RUN NO. DEPTH REC RQD
3-HQ 14'-19' 100% 93%
BEND SE INTERCEPTOR
B-14-10 5/4/10
Box 2/2
HQ TOP
14.0
19.0

RUN NO. DEPTH REC RQD
1-HQ 5'-10' 100% 95%
2-HQ 10'-15' 100% 100%
BEND SE INTERCEPTOR
B-19-10 5/4/10
HQ TOP
10.0
15.0

RUN NO. DEPTH REC. RQD
3-HQ 15'-20' 100% 100%
BEND SE INTERCEPTOR
B-19-10 5/4/10
Box 2/2
HQ TOP
20.0
HQ BTM

RUN NO. DEPTH REC RQD
1-HQ 5'-10' 100% 93%
2-HQ 10'-15' 100% 97%
BEND SE INTERCEPTOR
B-28-10 5/5/10
HQ TOP

RUN NO.
4-HQ 20'-25' 100% 78%
5-HQ 25'-30' 100% 92%
6-HQ 30'-35' 100% 98%
BEND SE INTERCEPTOR
B-28-10 5/5/10
HQ TOP

RUN NO. DEPTH REC RQD
2-HQ 10'-15' 100% 97%
3-HQ 15'-20' 90% 86%
4-HQ 20'-25' 100% 78%
Bend SE Interceptor
B-28-10
Box 2
5/5/10
HQ TOP
15.0
20.0
30.0
5.0

RUN NO. DEPTH REC. RQD
7-HQ 35'-40' 100% 98%
8-HQ 40'-45' 100% 99%
BEND SE INTERCEPTOR
B-29-10
5/5/10 BOX 4/4
HQ TOP
40.0
45.0

RUN NO. DEPTH (ft) REC. RQD
1- HQ 5.0 - 10.0 33% 0.075%
2- HQ 10.0 - 15.0 90% 56%
3-HQ 15.0 - 20.0 80% 70%
BEND
SE INTERCEPTOR
B-29-10
5/5/10
5.0
10.0
15.0

RUN NO. DEPTH REC RQD
5-HQ 25' - 30' 100% 88%
6- HQ 30' - 35' 95% 86%
7- HQ 35' - 40' 100% 98%
BEND SE INTERCEPTOR
B-29-10 5/5/10
Box 3/4
HQ TOP
30.0
35.0

RUN NO. DEPTH REC. RQD
3-HQ 15'-20' 80% 70%
4-HQ 20'-25' 100% 90%
5-HQ 25'-30' 100% 88%
BEND SE INTERCEPTOR
B-29-10 5/5/10
HQ TOP

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Appendix D
Laboratory Test Results

wallaceGROUP
applied earth & environmental science

CORE COMPRESSION TEST

ASTM D-7012

CLIENT: CH2M Hill
PROJECT: SE Interceptor
LOCATION: Various borings
SAMPLE LOCATION: Various depths
DATE RECEIVED: 5/6/2010
REVIEWED BY: M. Herbert

LAB NUMBER: WG0039
PROJECT NUMBER: 10052 (1)
DATE SAMPLED: 5/5/2010
DATE ANALYZED: 6/30/2010
SAMPLE DESCRIPTION: Rock Cores
LAB TECHNICIAN: M. Gainey

BORING NO./TEST PIT NO.	B-1-10	B-2-10	B-10-10	B-14-10	B-19-10
SAMPLE NO.	3-HQ	4-HQ	1-HQ	1-HQ	2-HQ
DEPTH (FT)	23'-24'	26'-27'	7'-8'	6' - 7'	11'-12'
DIMENSIONS, in.	2.38x6.01	2.39x6.00	2.38x6.01	2.38x6.01	2.38x6.00
AREA, square in.	4.46	4.46	4.46	4.46	4.46
ULTIMATE LOAD, lbs.	24850	45405	12775	14890	9355
COMPRESSIVE STRENGTH,psi	5572	10180	2864	3338	2098

BORING NO./TEST PIT NO.	B-28-10	B-28-10	B-28-10	B-29-10	B-29-10
SAMPLE NO.	3-HQ	4-HQ	5-HQ	3-HQ	4-HQ
DEPTH (FT)	17' - 18'	21.5' - 22'	29' - 30'	18' - 19'	23.5' - 24'
DIMENSIONS, in.	2.38x6.01	2.38x6.00	2.38x6.01	2.38x6.00	2.38x6.01
AREA, square in.	4.46	4.46	4.46	4.46	4.46
ULTIMATE LOAD, lbs.	19515	14000	10380	11270	18630
COMPRESSIVE STRENGTH,psi	4376	3139	2327	2526	4177

BORING NO./TEST PIT NO.	B-29-10	
SAMPLE NO.	6-HQ	
DEPTH (FT)	32' - 33'	
DIMENSIONS, in.	2.38x6.00	
AREA, square in.	4.46	
ULTIMATE LOAD, lbs.	20490	
COMPRESSIVE STRENGTH,psi	4594	

The Wallace Group, Inc.
62915 18th Street, Suite 1
Bend, Oregon 97701

wallaceGROUP
applied earth & environmental science

200 WASH
ASTM C-117

CLIENT: CH2M Hill
PROJECT: S/E Interceptor
LOCATION: Borings B-1 and B-2
SAMPLE LOCATION: See depths below
DATE SAMPLED: 5/3/2010

PROJECT NUMBER: 10051 (1)
LAB NUMBER: WG0039
TECHNICIAN: M.Gainey
DATE RECEIVED: 6/26/2010
DATE ANALYZED: 6/30/2010

LOCATION	B-1-10	B-2-10		
DEPTH	5'-6.5'	5'-6.5'		
WET WEIGHT	1167.8	1581		
DRY WEIGHT	1132	1526.1		
MOISTURE %	3.2%	3.6%		
WEIGHT AFTER WASH	1055.6	1373.1		
WEIGHT PASSING # 200	76.4	153.0		
% PASSING # 200	6.7%	10.0%		

LOCATION				
DEPTH				
WET WEIGHT				
DRY WEIGHT				
MOISTURE %				
WEIGHT AFTER WASH				
WEIGHT PASSING # 200				
% PASSING # 200				

REVIEWED BY: M. Herbert
DATE: 7/12/2010

Remarks:

The Wallace Group, Inc.
62915 18th Street, Suite 1
Bend, Oregon 97701

SubTerra, Inc. PO Box 520, North Bend, WA 98045

CH2M Hill
BEND SE Interceptor
Project Number 405365.A7.03
Summary of Cerchar Abrasivity Test Results

Sample	Borehole	Depth (m)	Geology Unit	Engineer's or Geotech's Comments	Cerchar (1/10 mm)		Test Comments
					Mean	STDev	
1	B28-10	20.5 to 21.5	Basalt	None	3.6	0.1	hard, Med depth scratch
2	B28-10	25 to 26	Basalt	None	3.6	0.3	hard, Med depth scratch
3	B29-10	33 to 34	Basalt	None	3.2	0.2	hard, Med depth scratch

(1) Rock samples were tested as received with natural moisture content.
(2) Tests on samples were conducted on diamond saw cut core surfaces.
(2) We recommend reviewing the results in concert with the data and information contained in the paper by Plinninger et al.
N/A - Data not available.

Test Date	31-Jul-10	Note: Tests carried out on smooth core surfaces
Test By	CDB	

SubTerra, Inc. PO Box 520, North Bend, WA 98045

CH2M Hill
BEND SE Interceptor
Project Number 405365.A7.03
Summary of Cerchar Abrasivity Test Results

Sample	Borehole	Depth (m)	Geology Unit	Engineer's or Geotech's Comments	Cerchar (1/10 mm)		Test Comments
					Mean	STDev	
1	B28-10	20.5 to 21.5	Basalt	None	3.6	0.1	hard, Med depth scratch
2	B28-10	25 to 26	Basalt	None	3.6	0.3	hard, Med depth scratch
3	B29-10	33 to 34	Basalt	None	3.2	0.2	hard, Med depth scratch

(1) Rock samples were tested as received with natural moisture content.
(2) Tests on samples were conducted on diamond saw cut core surfaces.
(2) We recommend reviewing the results in concert with the data and information contained in the paper by Plinninger et al.
N/A - Data not available.

Test Date	31-Jul-10	Note: Tests carried out on smooth core surfaces
Test By	CDB	

EXHIBIT B

PAVEMENT CORE LOGS

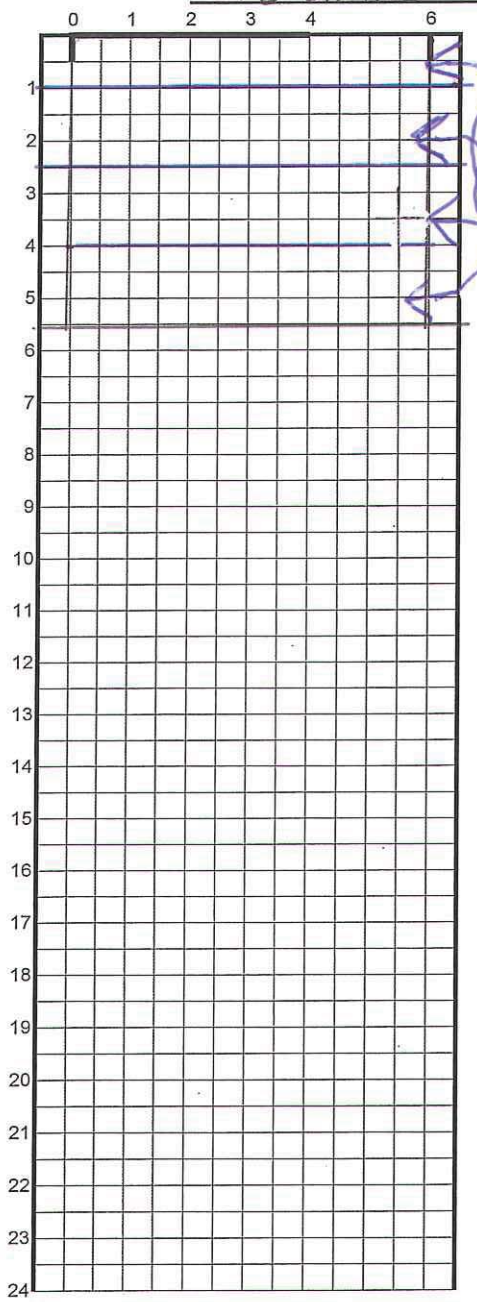
THIS INFORMATION IS FOR REFERENCE ONLY. REFER TO PROJECT SPECIAL CONDITIONS FOR THE TECHNICAL CONDITIONS, SECTION 00495,TRENCH RESURFACING.

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #1 CORE AT 27TH STREET LNB TURN LN AT BAXTER OAK Rd
CORE LENGTH: 5.5 Inches

Saved: Yes No
PD # SW0707
Date: 10-24-2011
Logged By: CITY OF BEALD
Designer: CH2MHILL

Key No.: #1



DRILLED THROUGH PATCH: NO YES

DRILLED ON CRACK: NO YES (Trans. Long. Fat. Other):

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

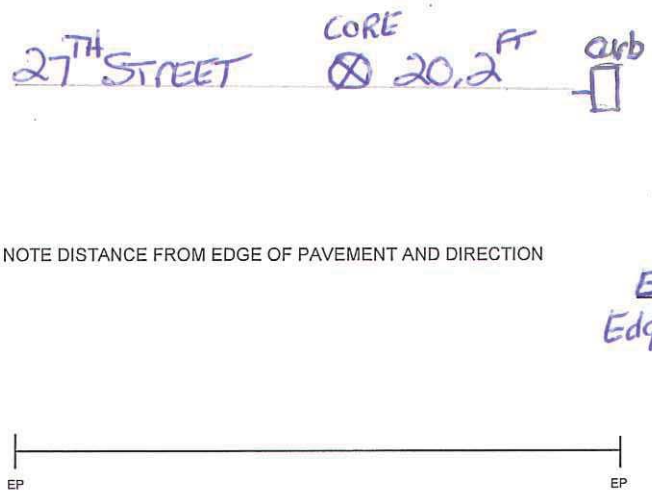
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

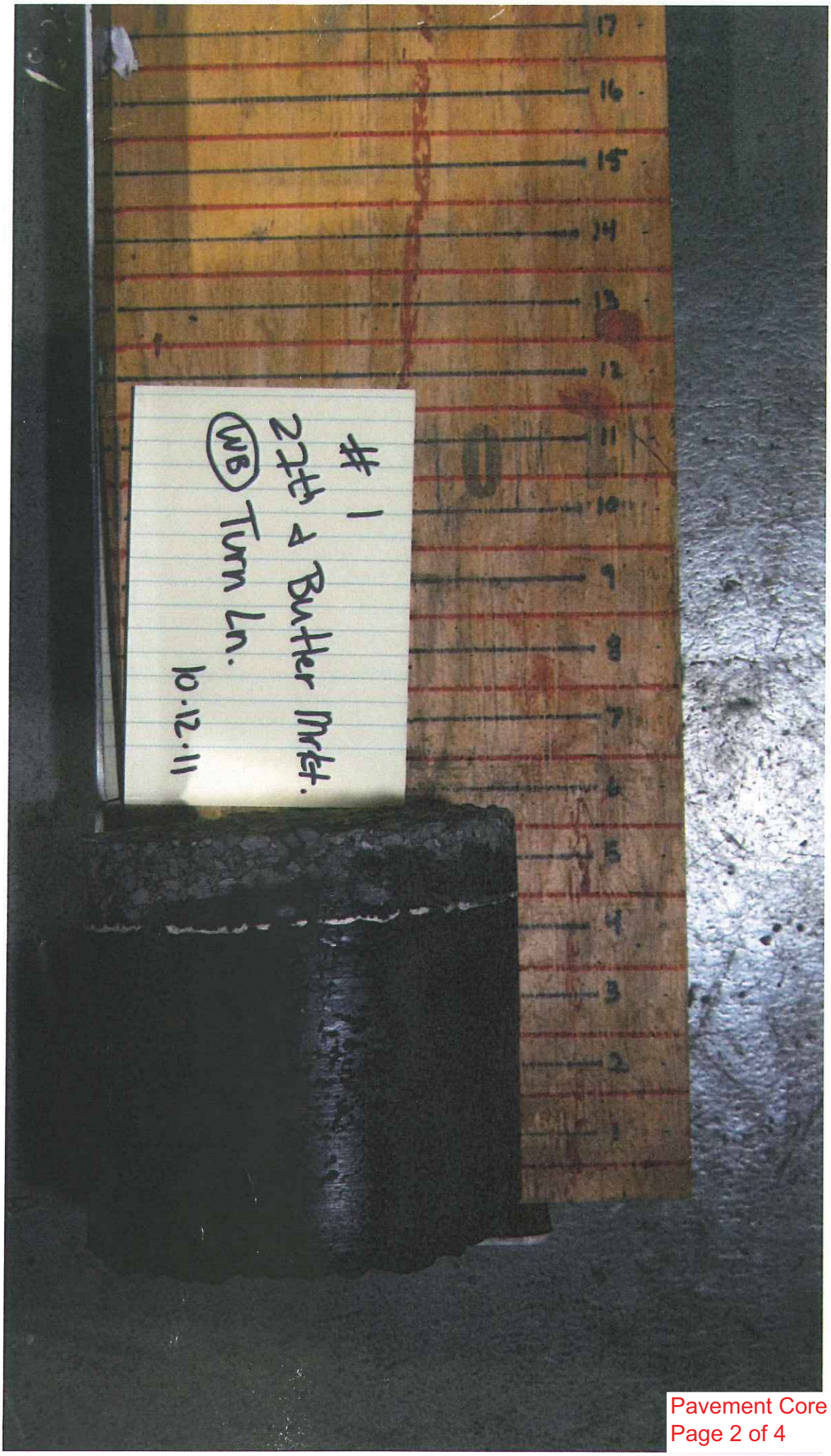
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor



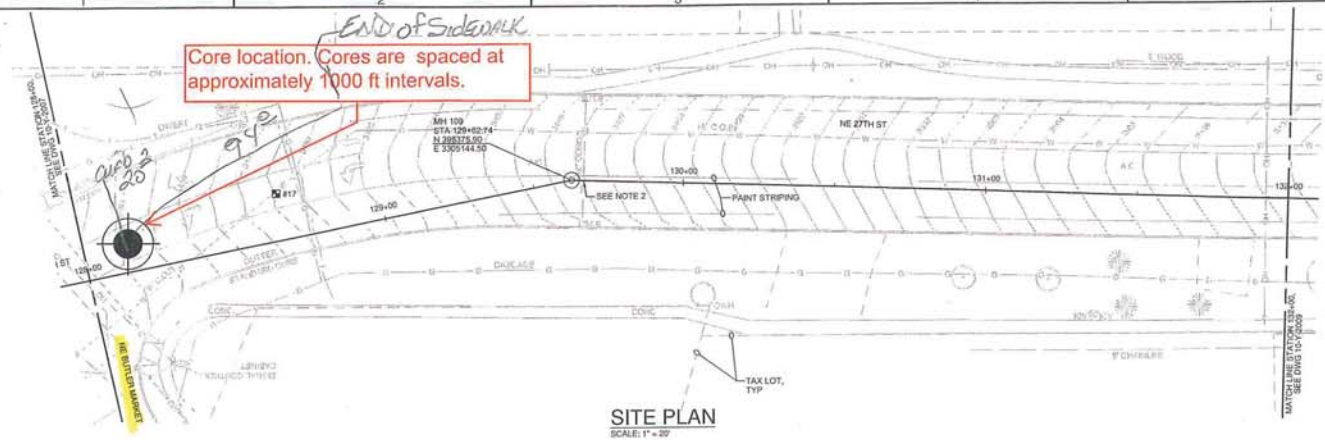
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

Pavement Core #1
Page 1 of 4


#1
27th & Butter Mrkt.
WB Turn Ln.
10.12.11

27th st Core Locations

CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497



SITE PLAN
SCALE: 1" = 20'

PROFILE
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. SEE DWG 01-G-0003 FOR CONSTRUCTION NOTES.
2. PRESERVE AND PROTECT EXISTING SD LINE DURING CONSTRUCTION OR TEMPORARILY BYPASS. MEET ALL CITY REQUIREMENTS FOR MAINTAINING STORM DRAINAGE COLLECTION. COORDINATE ALL WORK WITH THE CITY.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 128+00 TO 132+00
DESCHUTES COUNTY, OREGON

REVISIONS:
1.
2.
3.

CH2MHILL
1000 NE CIRCLE BLVD, BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: B THOMPSON
CHECKED BY: J MAWADE
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 10-Y-2008 SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 10-Y-2008
SHEET: SHT NO
COB # SW0707

PLOT DATE: 9/29/2011 PLOT TIME: 9:26:43 AM

Pavement Core #1
Page 4 of 4

EXHIBIT B

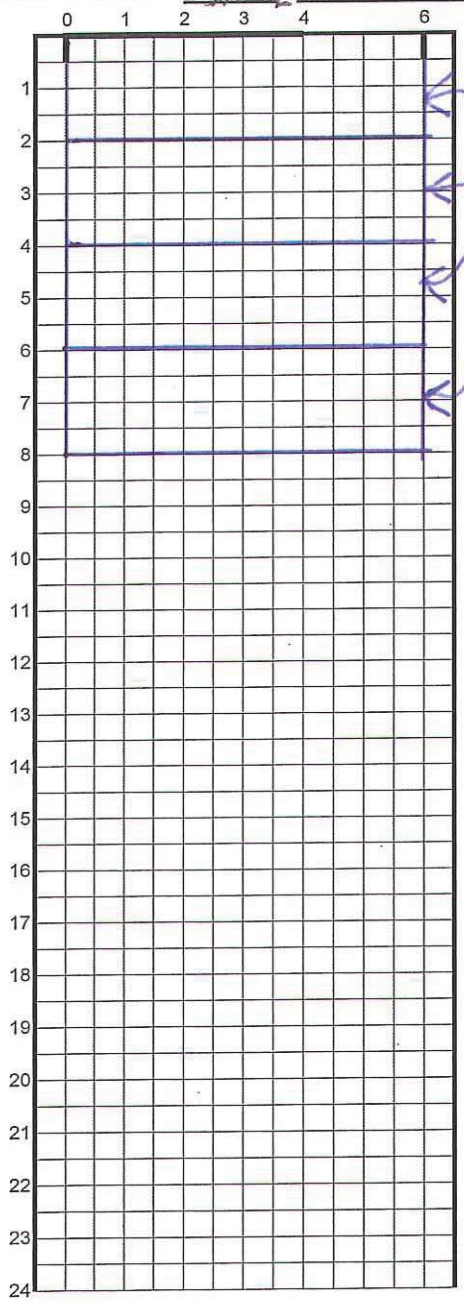
PAVEMENT CORE LOG 2

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #2 CORE ON 27TH STREET 150' SOUTH of ALDRICH ST
CORE LENGTH: 8 INCHES

Saved: Yes No
PD # SW0707
Date: 10-24-2011
Logged By: CITY OF BEND
Designer: CH2MHILL

Key No.: #2



DRILLED THROUGH PATCH: (NO) YES

DRILLED ON CRACK: (NO) YES (Trans. Long. Fat. Other):

TYPE: (Dense AC) Open AC PCC CTB Oil Mat Other
CONDITION: (Good) Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

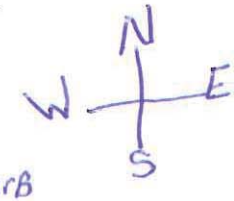
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor



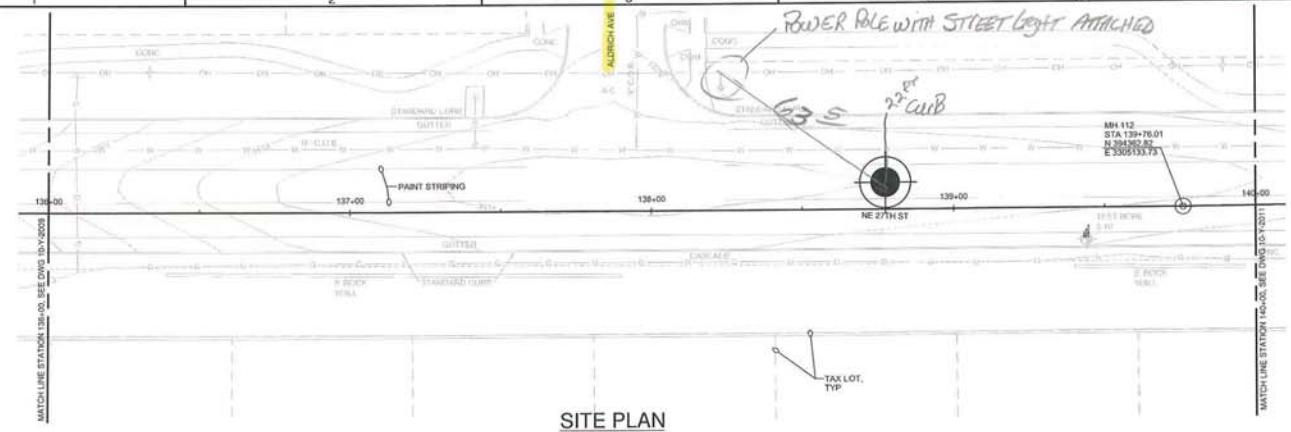
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

EC
Edge of Curb

Aldrich Job @ 051
#2
1+1

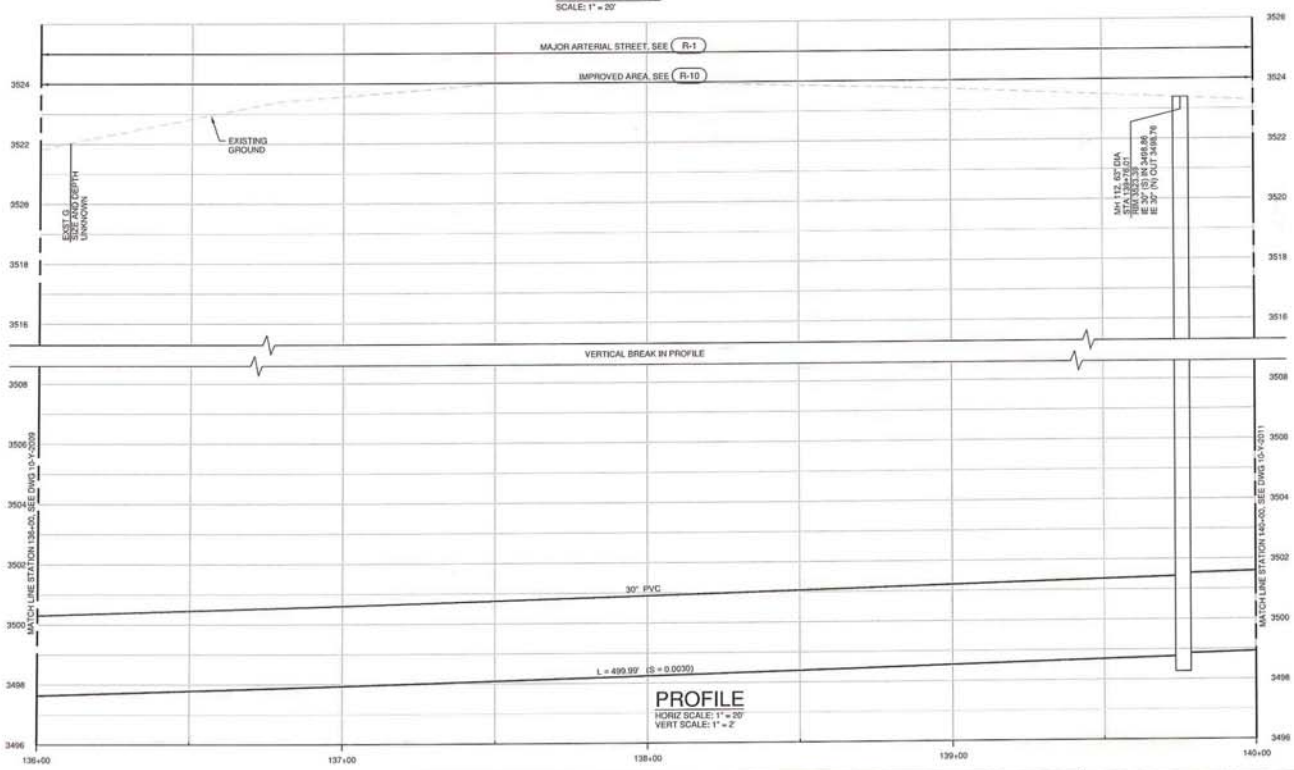
27th st Core Locations

CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497



SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. SEE DWG 01-G-0003 FOR CONSTRUCTION NOTES.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 136+00 TO 140+00

DESCHUTES COUNTY, OREGON

REVISIONS:

CH2MHILL
1000 NE CIRCLE BLVD.
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: B THOMPSON
CHECKED BY: J McWADE
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 10-Y-2010_SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 10-Y-2010
SHEET: SHT NO
COB # SW0707

PLOT DATE: 9/29/2011 PLOT TIME: 9:27:17 AM

EXHIBIT B

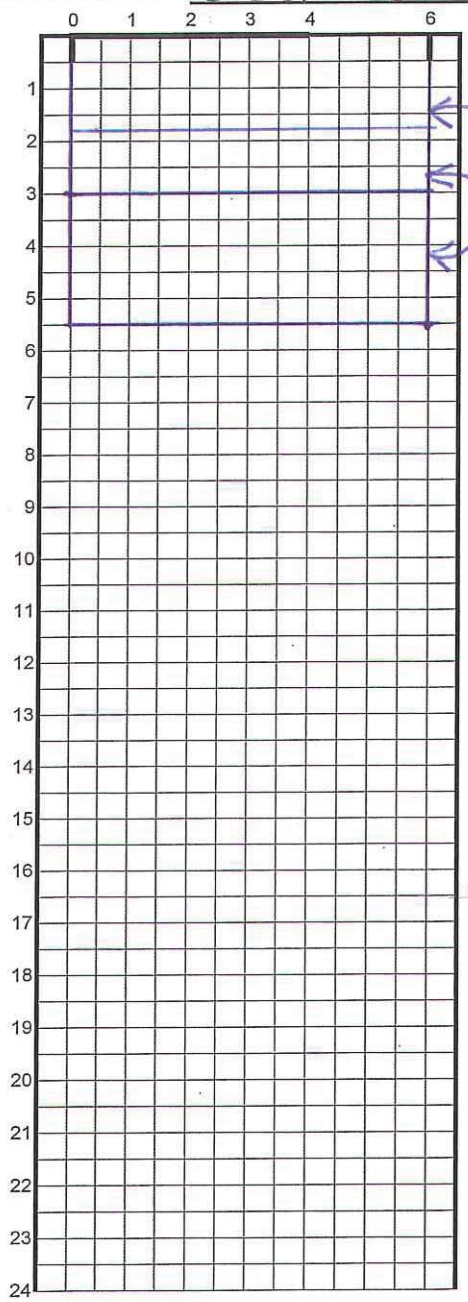
PAVEMENT CORE LOG 3

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #3 CORE ON 27TH STREET 150' SOUTH OF WELLS ACRE ST
CORE LENGTH: 5.5 INCHES

Saved: Yes No
PD # SW0707
Date: 10-24-2011
Logged By: CITY OF BEND
Designer: CH2MHILL

Key No.: #3



DRILLED THROUGH PATCH: (NO) YES

DRILLED ON CRACK: NO (YES) (Trans. Long. Fat. Other):

TYPE: (Dense AC) Open AC PCC CTB Oil Mat Other
CONDITION: (Good) Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

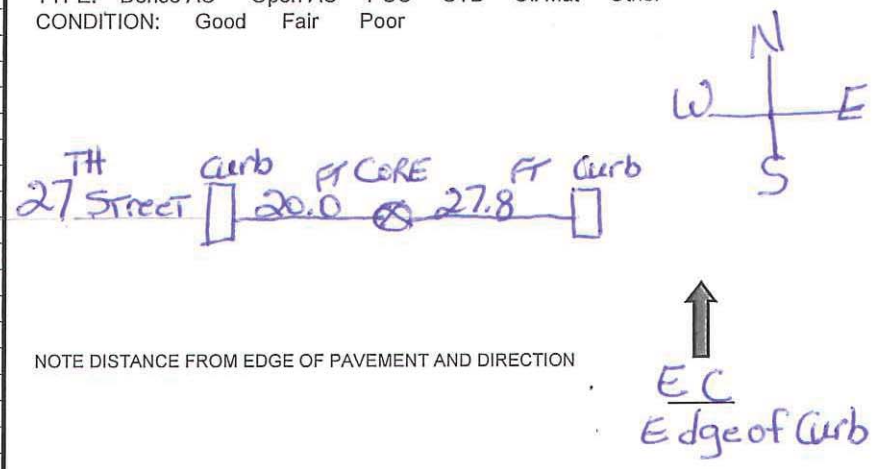
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

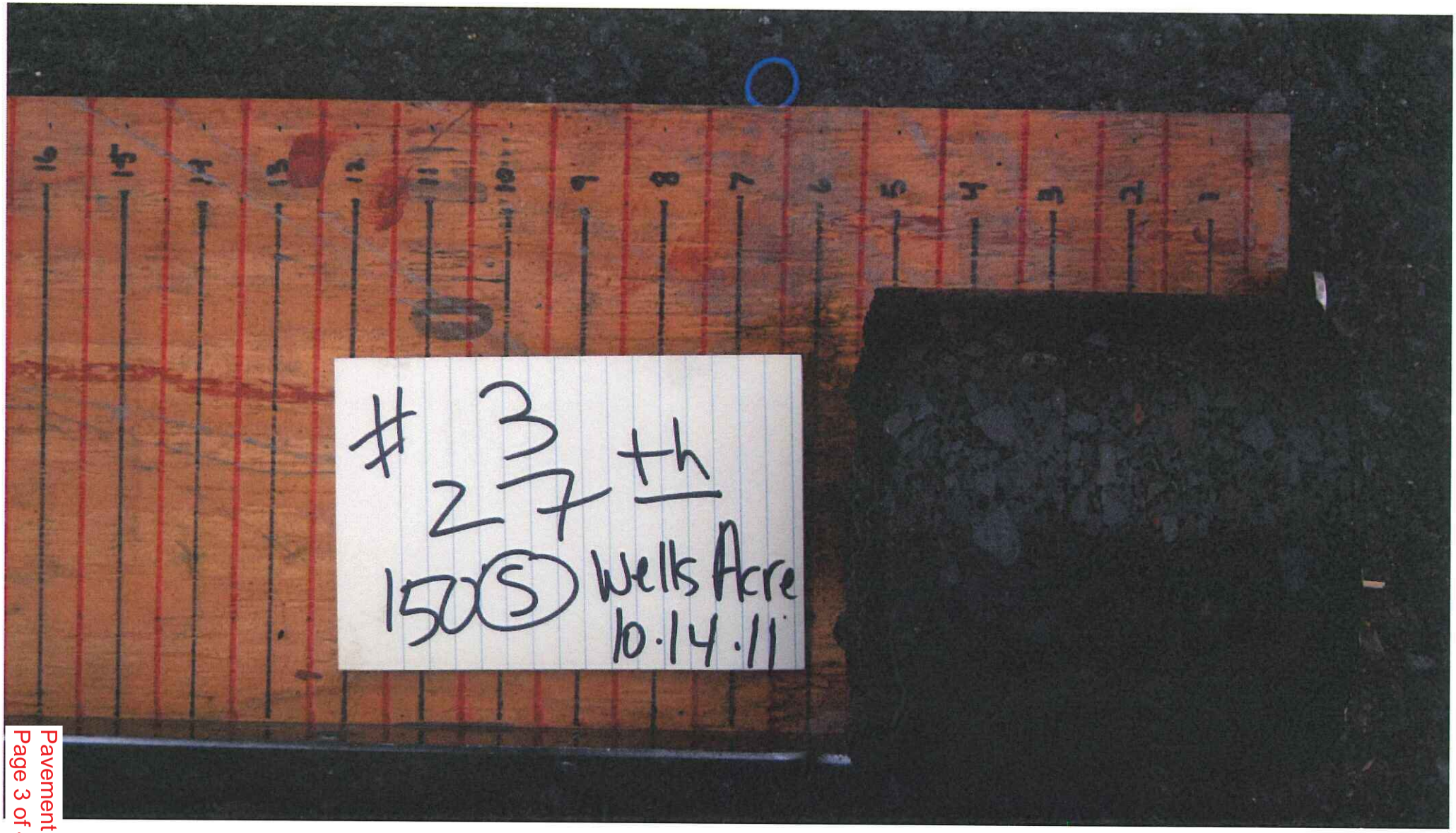


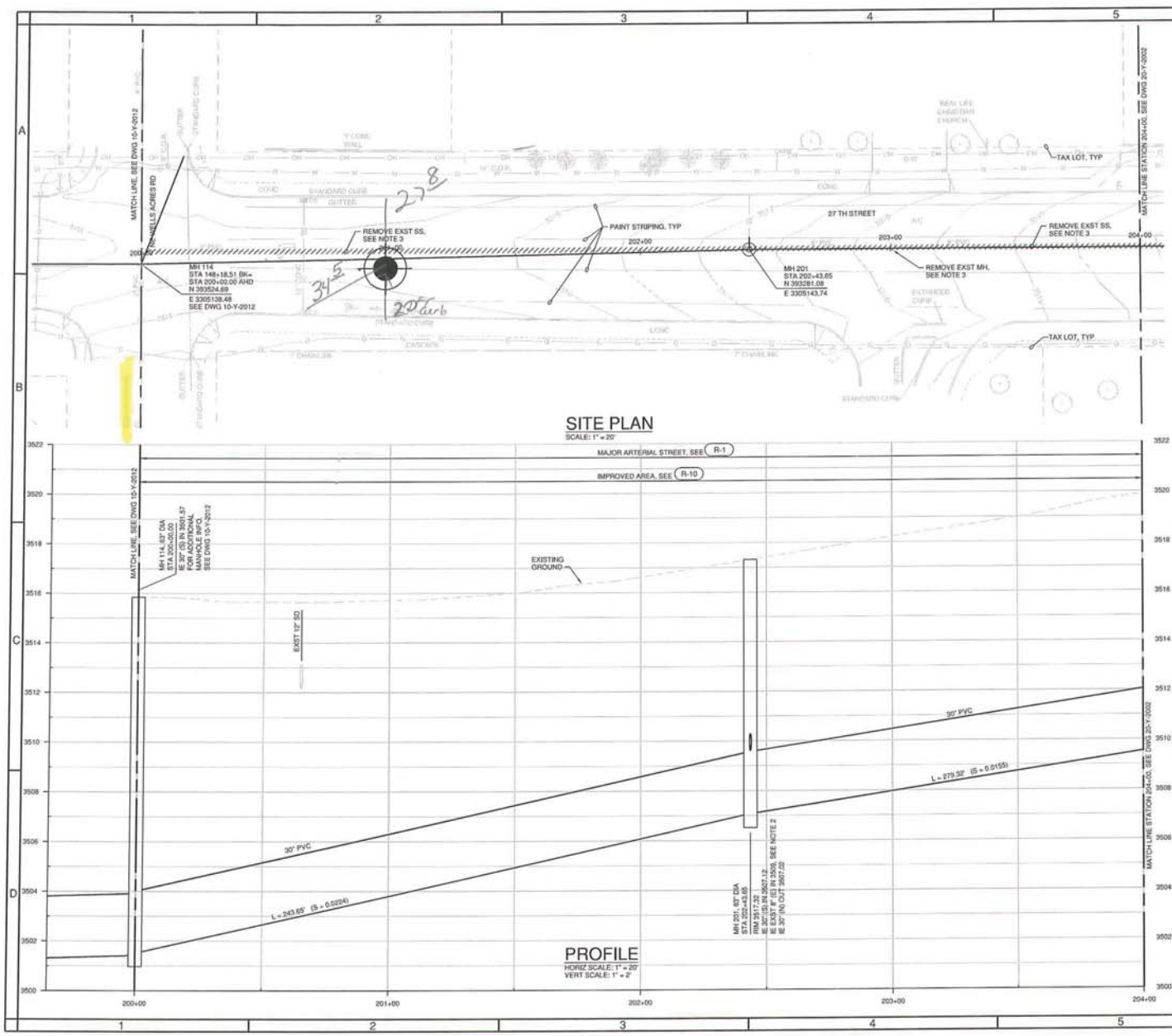
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

EP EP

27th st Core Locations

CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497


#3
27th
150(S) Wells Acre
10.14.11



GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. ADJUST CONNECTION PIPE SIZE AND INVERT TO MATCH EXISTING. INVERTS SHOWN ARE MINIMUM. IF ACTUAL INVERT IS 2 FEET HIGHER PROVIDE DROP STRUCTURE, SEE S-4, SIM
3. PROVIDE TEMPORARY SEWER BYPASS SYSTEM FROM FAITH DRIVE TO WELLS ACRES ROAD DURING CONSTRUCTION (STA 200+00 TO STA 205+22.97). COORDINATE WITH COB FOR PEAK FLOW REQUIREMENTS. COORDINATE TEMPORARY SEWER SHUT DOWN FOR INSTALLATION AND REMOVAL OF TEMPORARY SEWER BYPASS SYSTEM. PROVIDE SERVICE TO ALL AFFECTED LATERALS ALONG TEMPORARY SEWER BYPASS ROUTE. TEMPORARY SEWER BYPASS SHALL BE INSTALLED AND OPERATIONAL BEFORE REMOVAL OF EXISTING SEWER BEGINS. ALL INTERCEPTOR DOWNSTREAM OF TEMPORARY SEWER BYPASS SHALL BE INSTALLED, TESTED AND ACCEPTED PRIOR TO PLACING ANY FLOW INTO IT UNLESS CONTRATOR PROVIDED ALTERNATE PLAN APPOROVED BY ENGINEER. SEE SPECIFICATIONS AND GENREAL CONDITIONS.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 200+00 TO 204+00
DESCHUTES COUNTY, OREGON

REVISIONS:
1.
2.
3.

DESIGNED BY: M BALDWIN
CHECKED BY: D PETERSON
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 20-Y-2001, SW0707

CH2MHILL
1000 NE CIRCLE BLVD.,
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 20-Y-2001
SHEET: SHT NO
COB # SW0707

PLOT DATE: 9/29/2011 PLOT TIME: 10:06:29 AM

EXHIBIT B

PAVEMENT CORE LOG 4

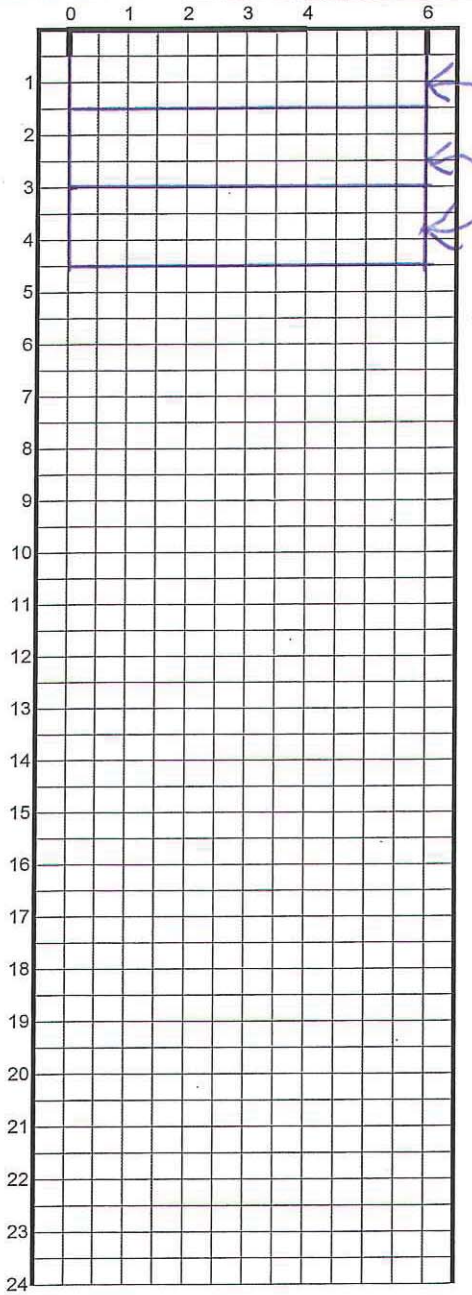
HIGH SCHOOL PEDESTRIAN ISLAND

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #4 CORE ON 27TH STREET 200' SOUTH OF MOUNTAIN VIEW
CORE LENGTH: 4.5 INCHES

Saved: Yes No
PD # SW0707
Date: 10-24-2011
Logged By: CITY OF BEND
Designer: CH2MHILL

Key No.: # 4



DRILLED THROUGH PATCH: NO YES

DRILLED ON CRACK: NO YES (Trans. Long. Fat. Other):

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

N
W E
S

27TH STREET Curb 26.0 FT CORE 25.3 FT Curb

NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

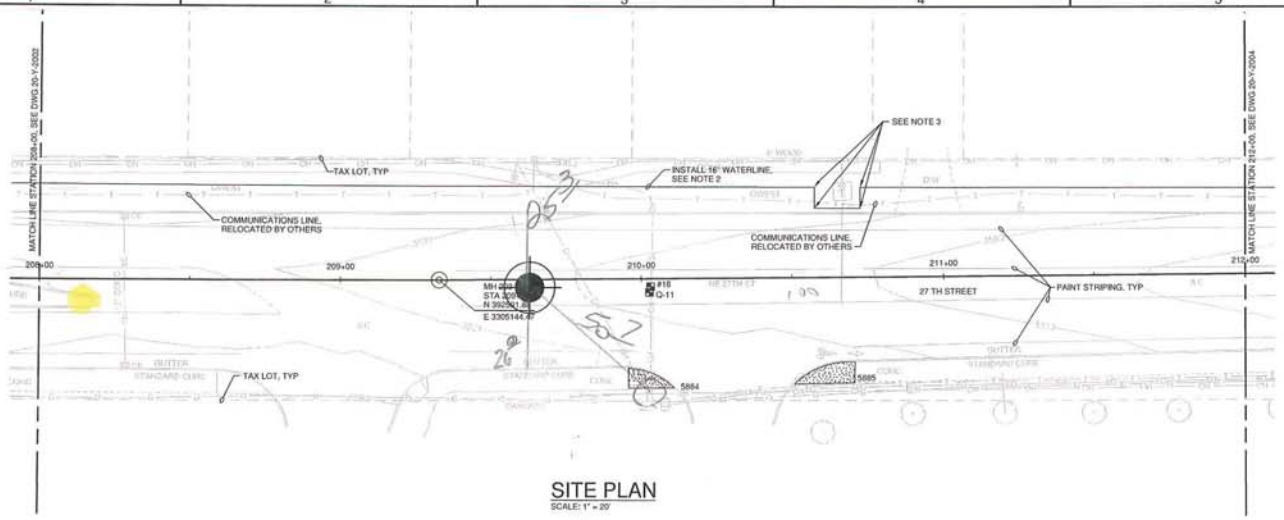
EC
Edge of Curb

EP EP

27th st Core Locations

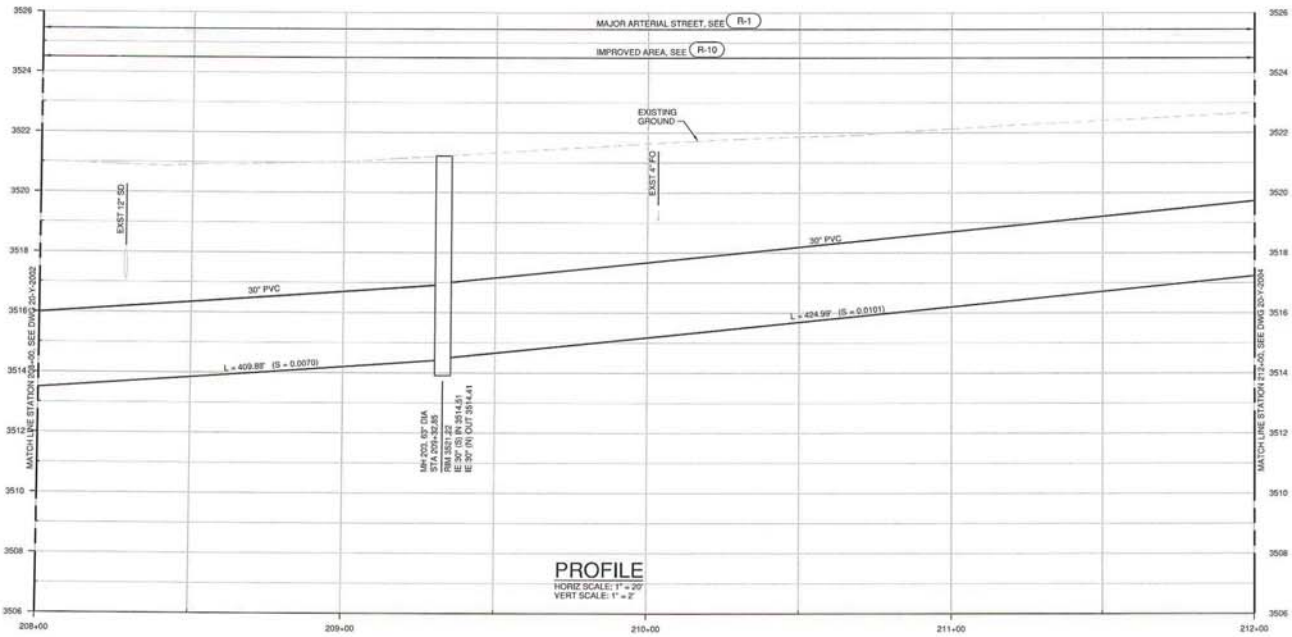
CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497

Pavement Core #4
Page 3 of 4



SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. INSTALL ISOLATION GATE VALVE AND THRUST RESTRAINED WATERLINE. INSTALL ISOLATION GATE VALVE EVERY 300 FEET. INSTALLED WATERLINE SHALL BE TESTED, INSPECTED AND ACCEPTED PRIOR TO PLACING INTO SERVICE. SEE DETAIL 1 ON 20-Y-5001 AND SPECIFICATIONS.
3. INSTALL THRUST RESTRAINED ELBOW.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 208+00 TO 212+00
DESCHUTES COUNTY, OREGON

REVISIONS:

CH2MHILL
1000 NE CIRCLE BLVD.
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: M BALDWIN
CHECKED BY: D PETERSON
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 20-Y-2003 SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 20-Y-2003
SHEET: SHT NO
COB # SW0707

PLOT DATE: 9/29/2

EXHIBIT B

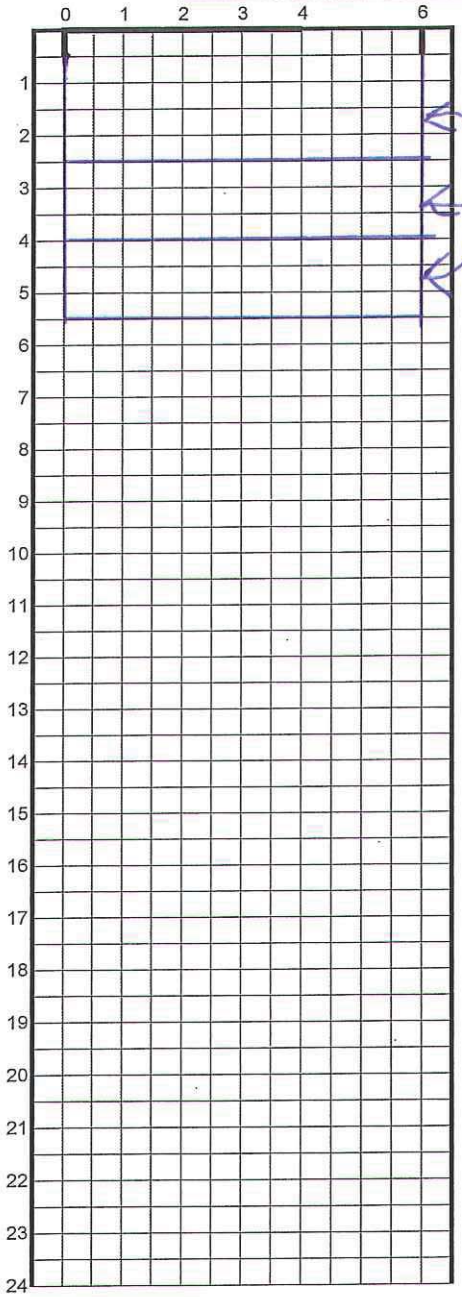
PAVEMENT CORE LOG 5

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #5 CORE ON 27TH STREET 200' NORTH OF ROSEMARY DR
CORE LENGTH: 5.5 INCHES

Saved: Yes No
PD #: SW0707
Date: 10-24-2011
Logged By: CITY OF BEND
Designer: CH2MHILL

Key No.: #5



DRILLED THROUGH PATCH: (NO) YES

DRILLED ON CRACK: (NO) YES (Trans. Long. Fat. Other):

TYPE: (Dense AC) Open AC PCC CTB Oil Mat Other
CONDITION: (Good) Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

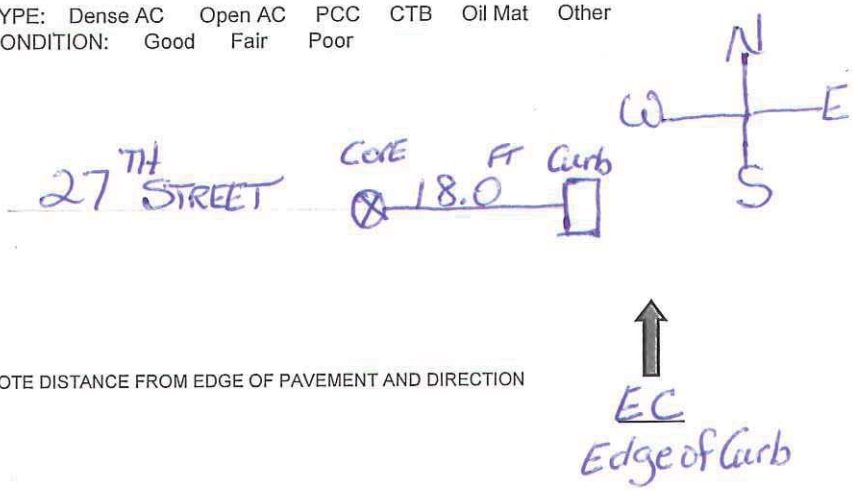
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

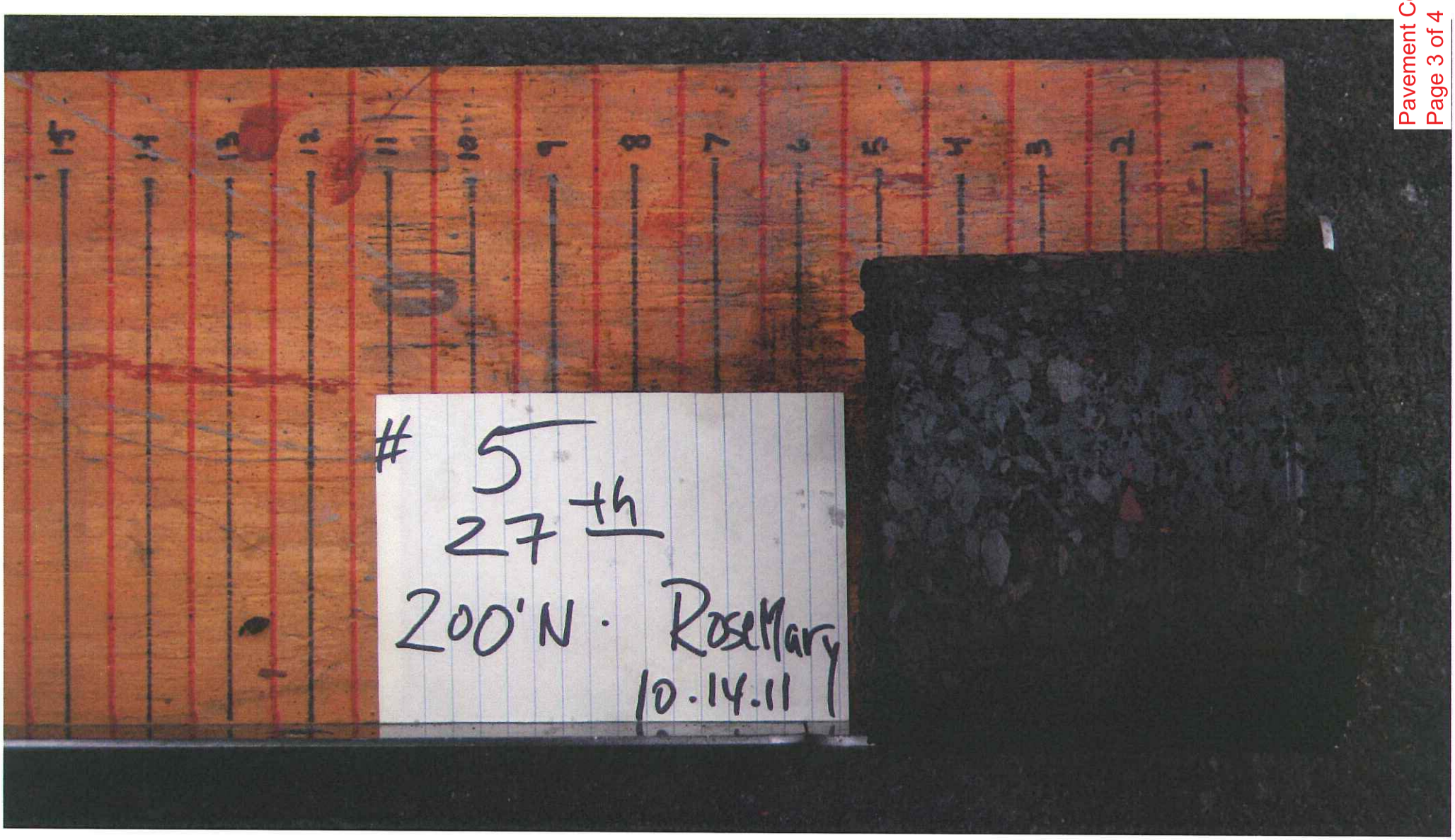


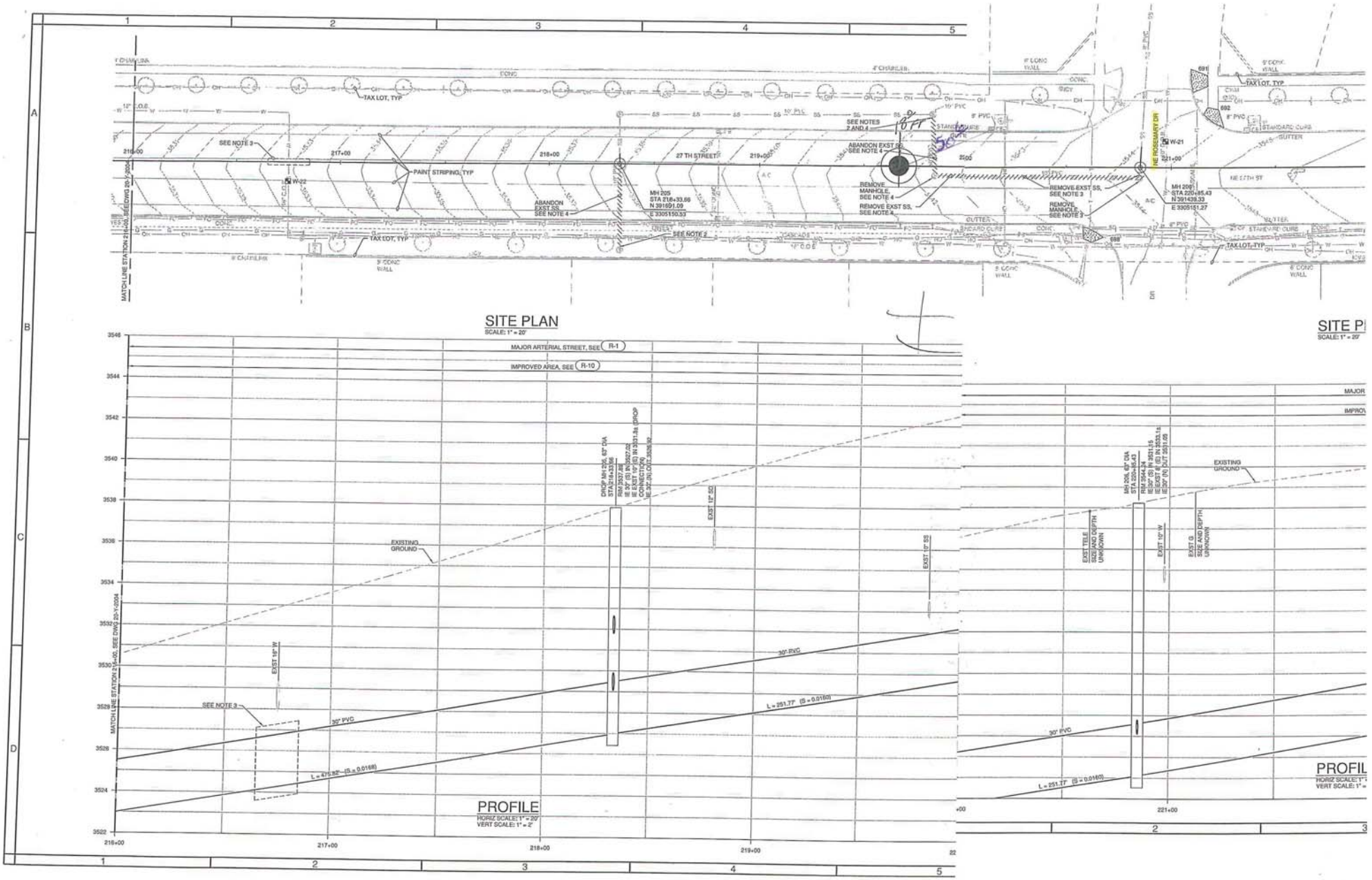
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

Pavement Core #5
Page 1 of 4

27th st Core Locations

CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497


5
27th
200'N. RoseMary
10.14.11



Pavement Core #5
Page 4 of 4

EXHIBIT B

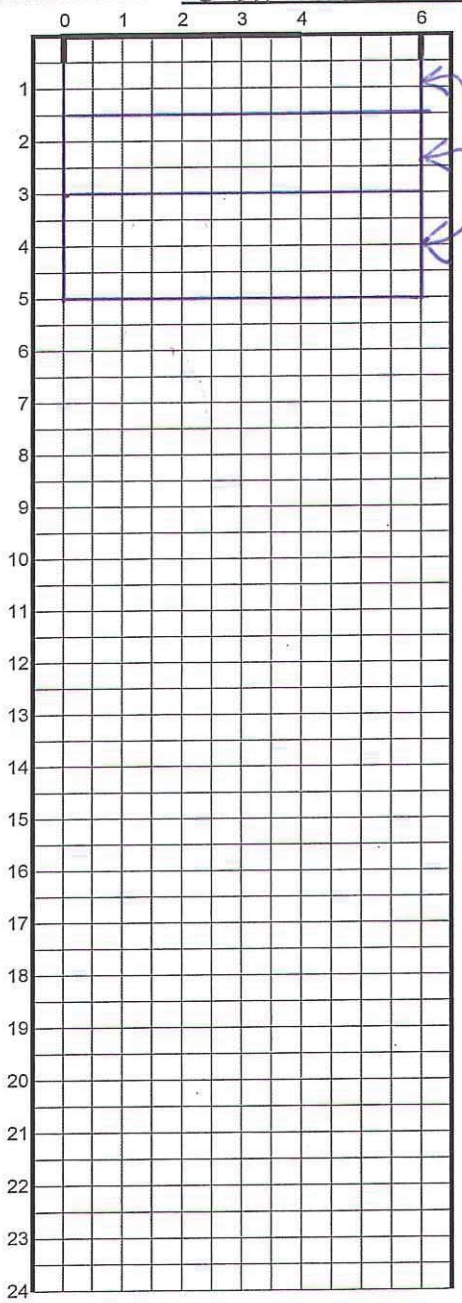
PAVEMENT CORE LOG 6

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #6 CORE ON 27TH STREET 250' SOUTH OF COURTNEY DR
CORE LENGTH: 5 INCHES

Saved: Yes No
PD #: SW0707
Date: 10-24-2011
Logged By: CITY of BEND
Designer: CH2MHILL

Key No.: #6



DRILLED THROUGH PATCH: (NO) YES

DRILLED ON CRACK: (NO) YES (Trans. Long. Fat. Other):

TYPE: (Dense AC) Open AC PCC CTB Oil Mat Other
CONDITION: (Good) Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

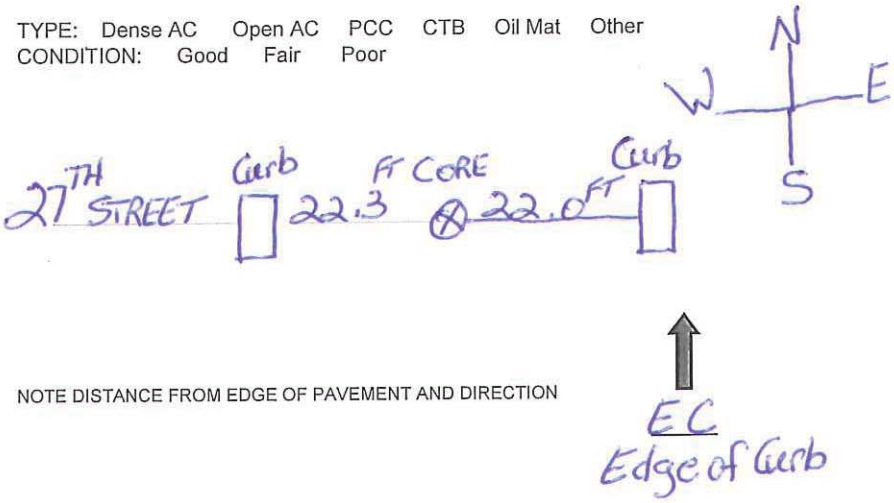
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

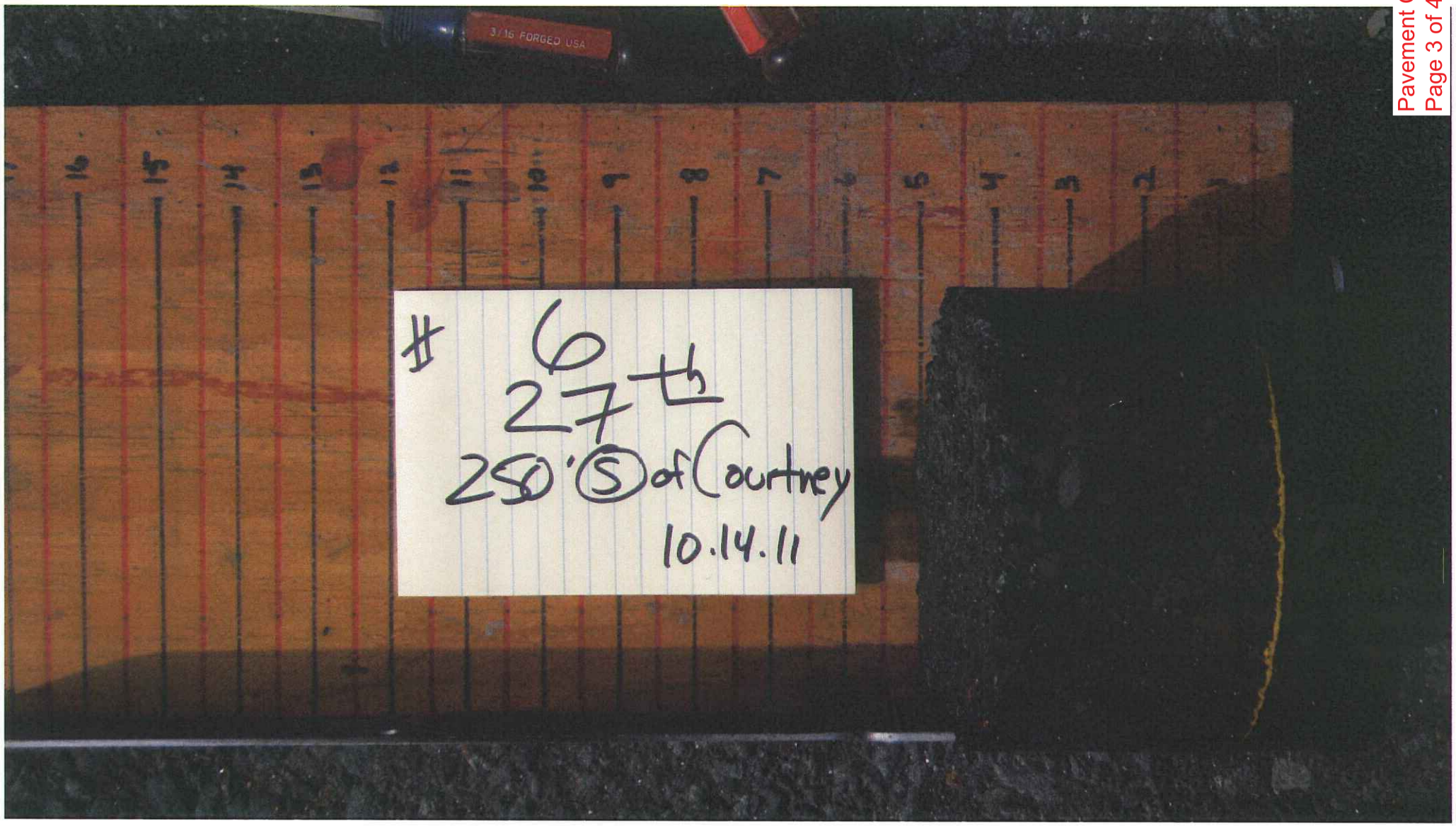


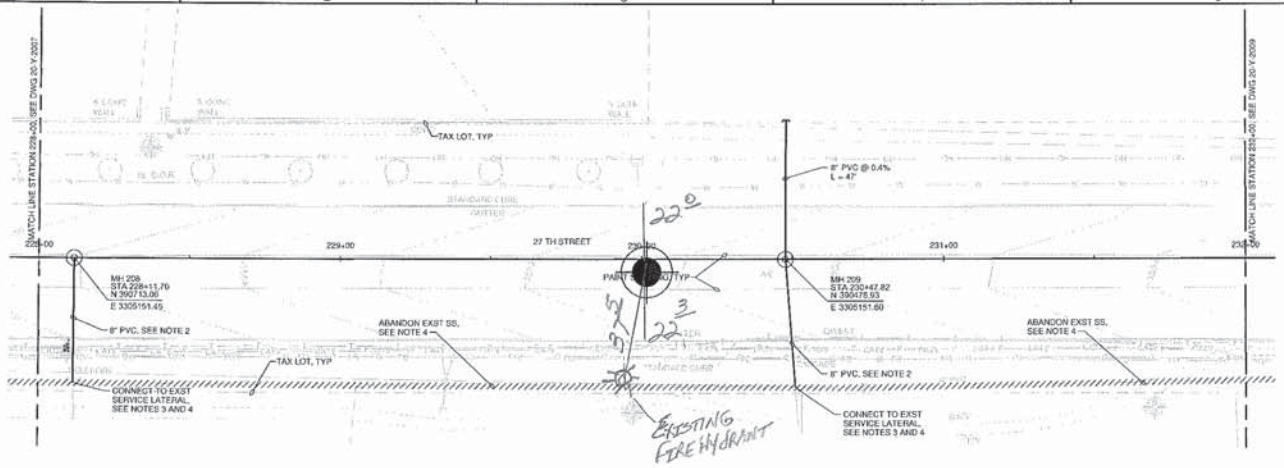
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

EP EP

27th st Core Locations

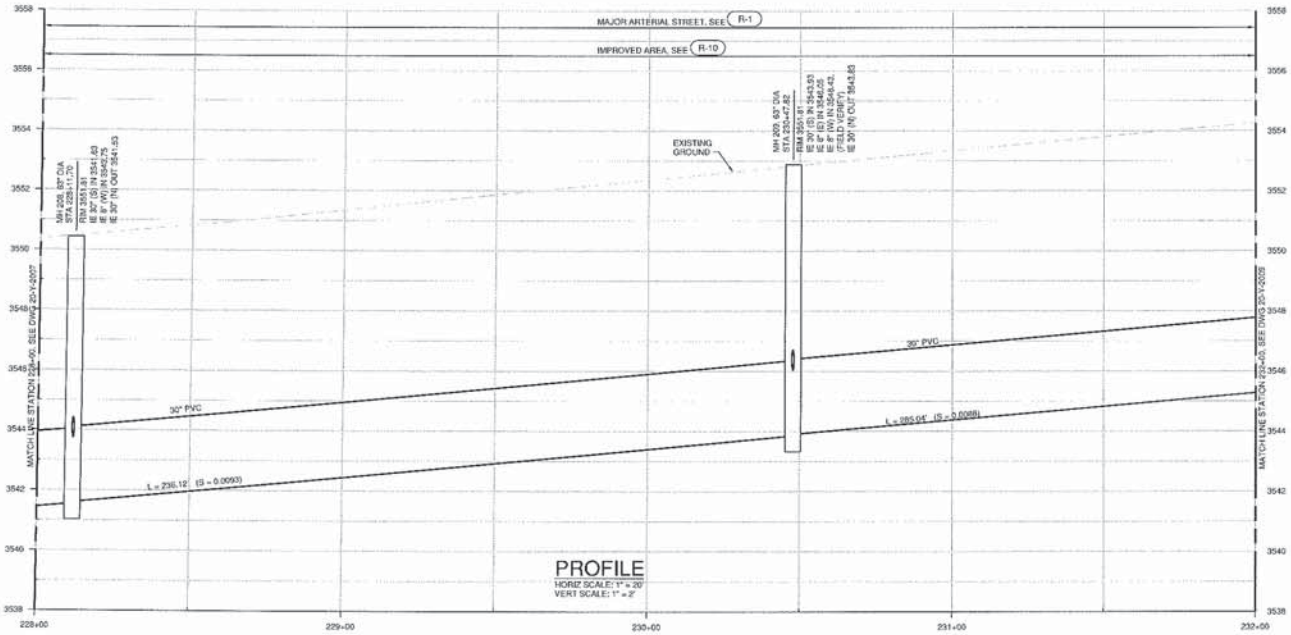
CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497


3/16 FORGED USA
6
27th
250' (S) of Courtney
10.14.11



SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. MATCH PIPE DIAMETER FOR EXISTING SERVICE LATERAL CONNECTION. SLOPE LATERAL EXTENSION AT 5%.
3. DO NOT FABRICATE OR ORDER MANHOLES OR CONSTRUCT TRENCH UNTIL THE INVERT OF THE EXISTING SS LATERAL IS VERIFIED AT THE NEW MH 208 AND MH 209 LOCATIONS. ADJUST INVERTS AND TRENCH PROFILE AS REQUIRED AND AS APPROVED BY ENGINEER. PROVIDE DROP STRUCTURE IF INVERT OF LATERAL IS MORE THAN 3 FEET ABOVE SEI CROWN. ADJUST INVERT OF LATERAL AS REQUIRED TO MEET SLOPE REQUIREMENTS.
4. COMPLETE CONSTRUCTION AND INSPECTION THROUGH MH 211 BEFORE MAKING LATERAL CONNECTIONS OR ABANDONING EXISTING SANITARY SEWER.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 228+00 TO 232+00

DESCHUTES COUNTY, OREGON

REVISIONS:

CH2MHILL
1000 NE CIRCLE BLVD.
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: M BALDWIN
CHECKED BY: D PETERSON
APPROVED BY: R FULLER
SCALE: AS SHOWN
FILE: 20-Y-2008 SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 20-Y-2008
SHEET: SHT NO
COB # SW0707

PLOT DATE: 9/29/

EXHIBIT B

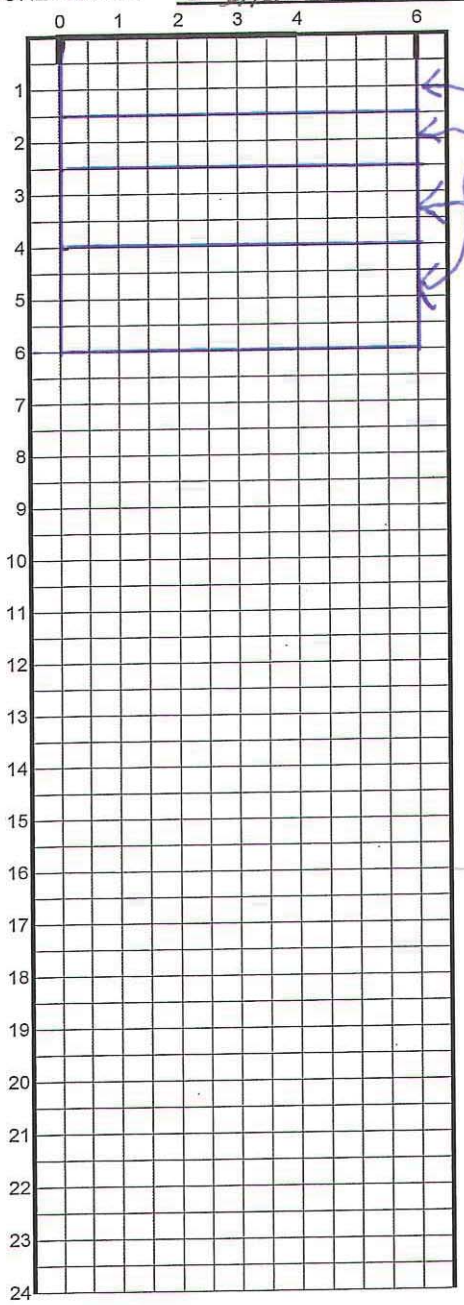
PAVEMENT CORE LOG 7

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #7 CORE ON 27TH STREET 300' North of WICHITA Way
CORE LENGTH: 6 INCHES

Saved: Yes No
PD #: SW0707
Date: 10-24-2011
Logged By: CITY OF BEND
Designer: CH2MHILL

Key No.: # 7



DRILLED THROUGH PATCH: (NO) YES

DRILLED ON CRACK: (NO) YES (Trans. Long. Fat. Other):

TYPE: (Dense AC) Open AC PCC CTB Oil Mat Other
CONDITION: (Good) Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

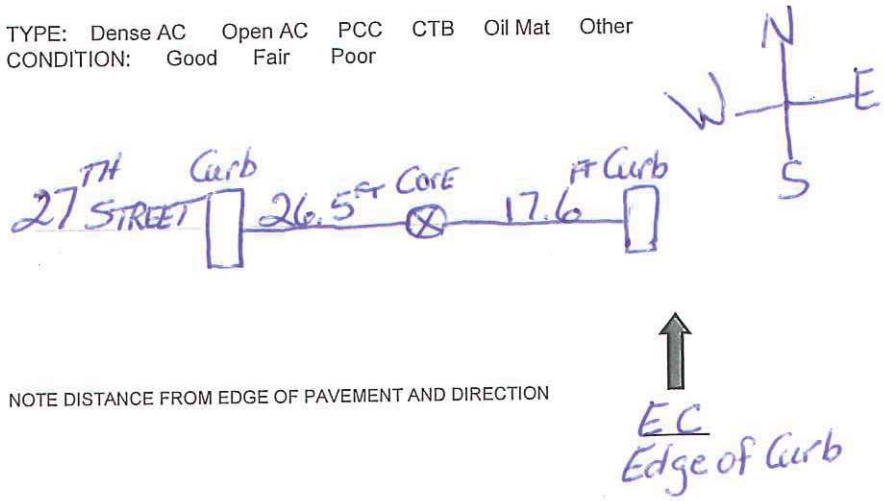
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

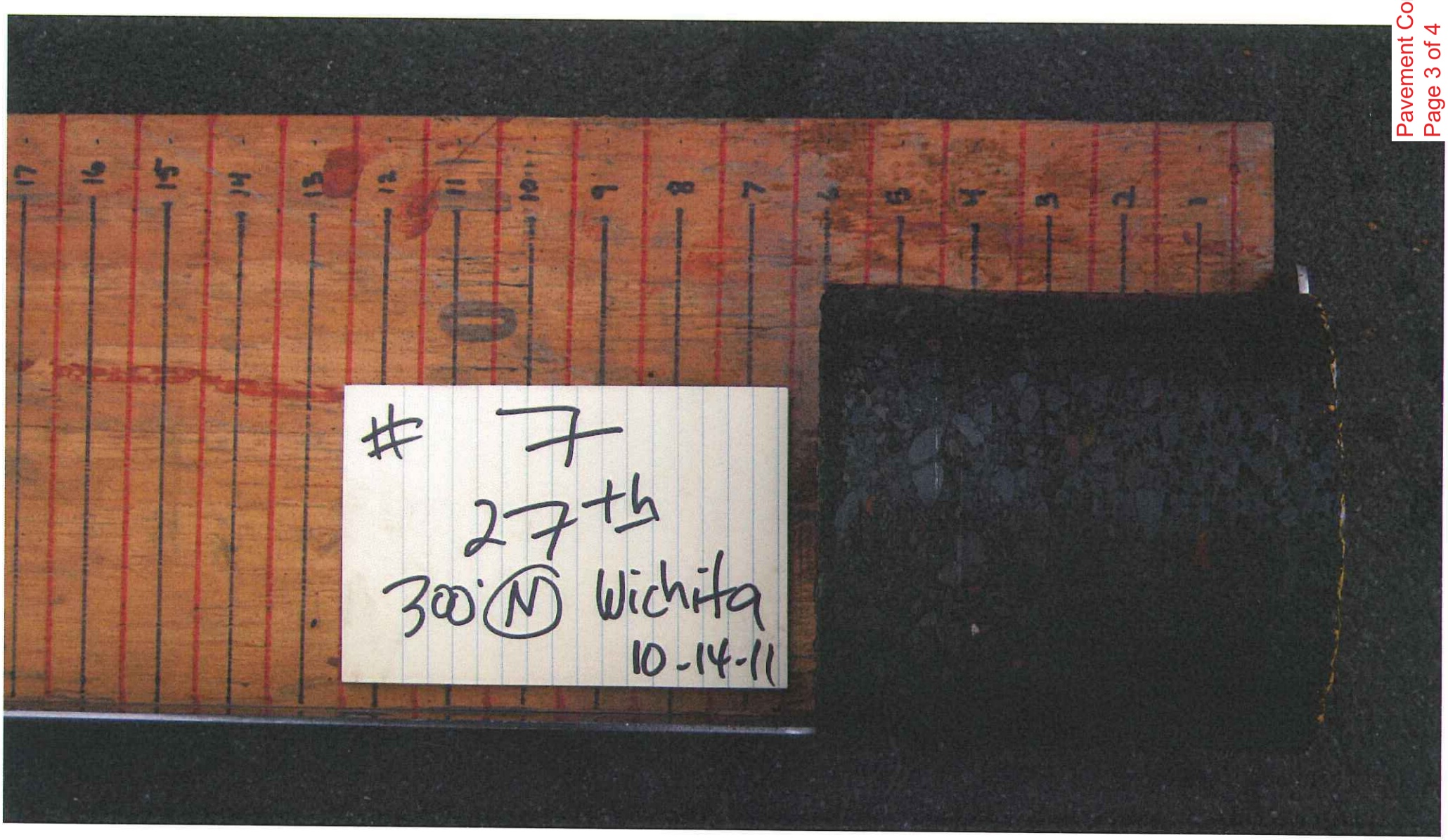


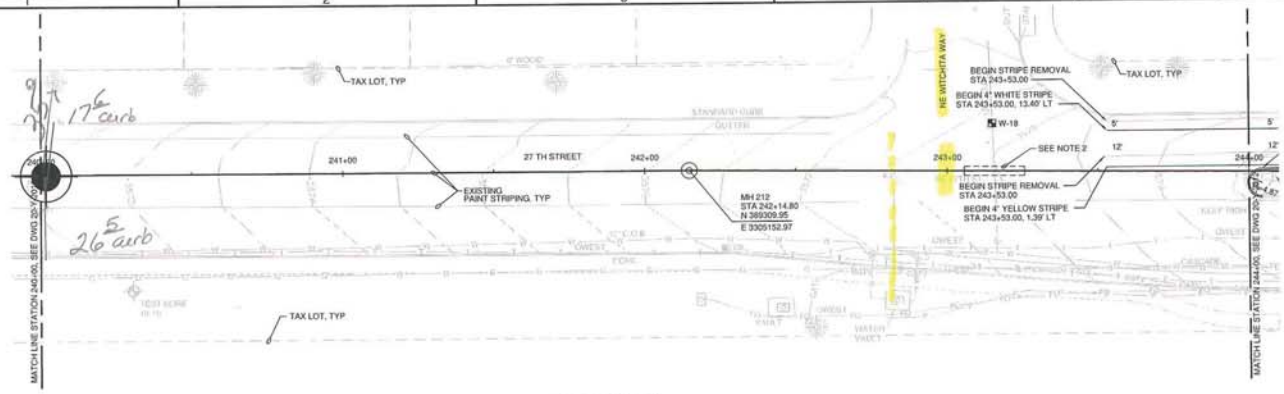
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

Pavement Core #7
Page 1 of 4

27th st Core Locations

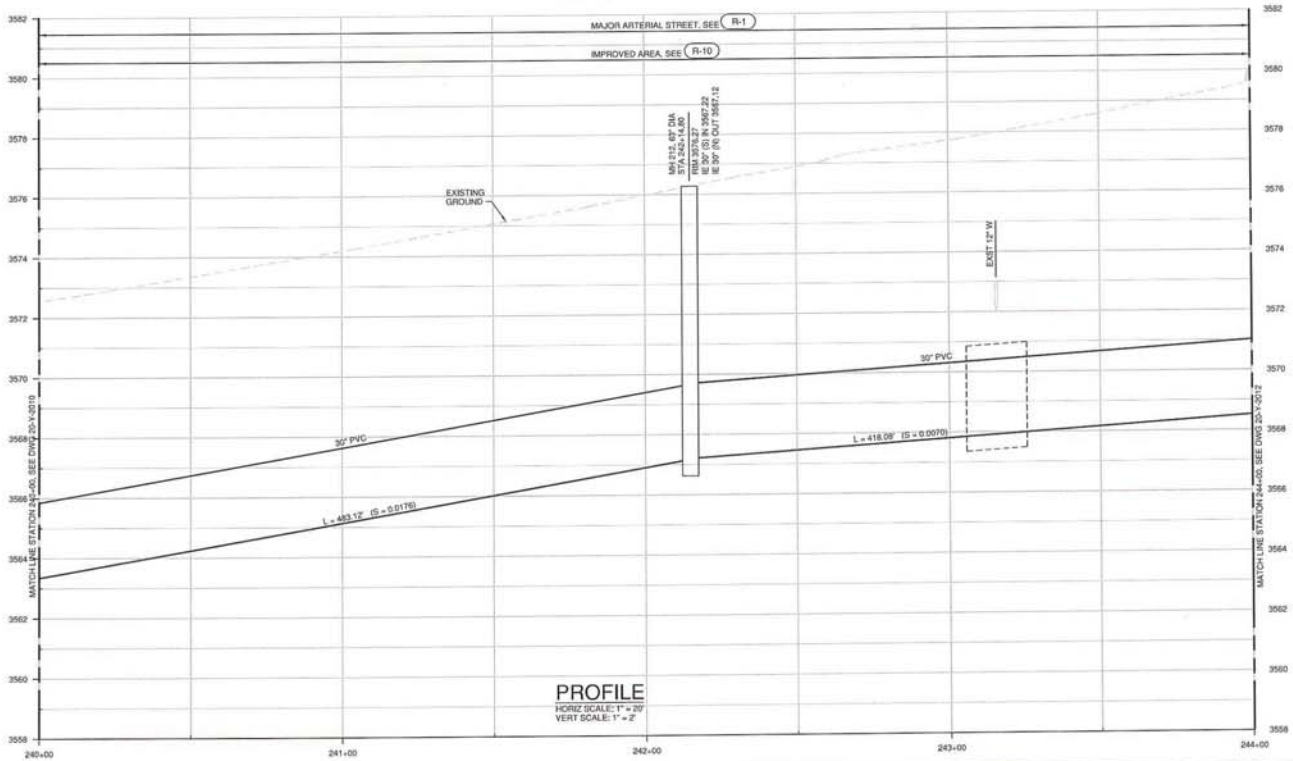
CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497


7
27th
300' N Wichita
10-14-11



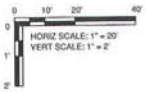
SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'



GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

E. ALL DIMENSIONS AND CALLOUTS TO CURB ARE TO FACE OF CURB.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. VERIFY 18" MINIMUM CLEARANCE BETWEEN BOTTOM OF WATERLINE AND TOP OF SEWER LINE. IF NOT, CONCRETE ENCASE SEWER LINE 10 FEET ON BOTH SIDES OF WATERLINE. SEE DETAIL 3305-701.

BEND SE INTERCEPTOR

SITE PLAN AND PROFILE
STATION 240+00 TO 244+00

DESCHUTES COUNTY, OREGON

REVISIONS:

CH2MHILL
1000 NE CIRCLE BLVD.
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: M BALDWIN
CHECKED BY: D PETERSON
APPROVED BY: R FULLER
SCALE: AS SHOWN
FILE: 20-Y-2011 SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 20-Y-2011
SHEET: SHT NO
COB # SW0707

PLOT DATE: 9/29

EXHIBIT B

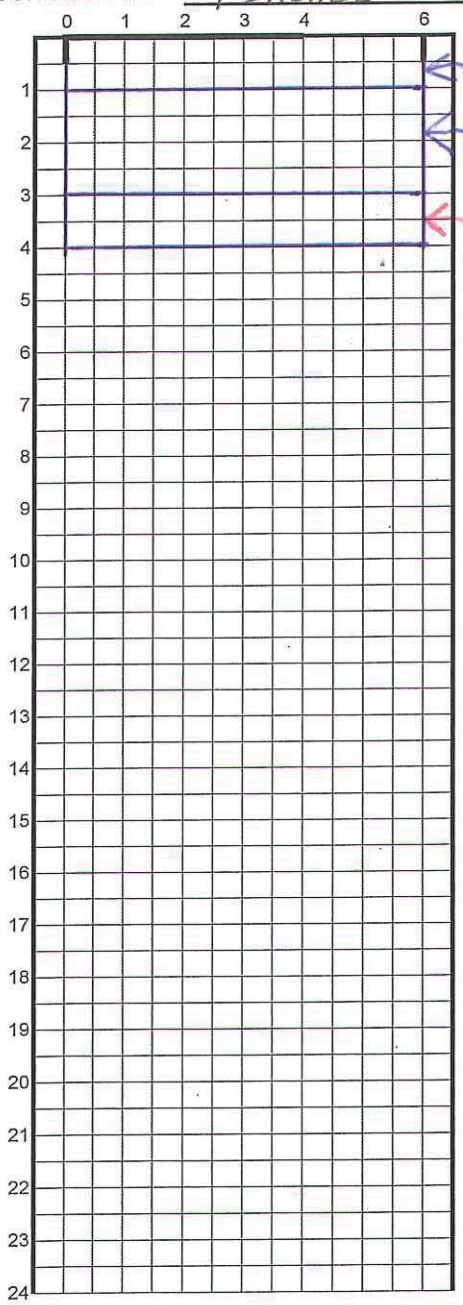
PAVEMENT CORE LOG 8

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: # 8 CORE ON 27TH STREET IN WEST BOUND TURN LANE 100 FT SOUTH OF NEFF RD
CORE LENGTH: 4 INCHES

Saved: Yes No
PD #: SW0707
Date: 10-24-2011
Logged By: CITY of BEND
Designer: CH2MHILL

Key No.: # 8



DRILLED THROUGH PATCH: NO YES

DRILLED ON CRACK: NO YES (Trans. Long. Fat. Other):

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

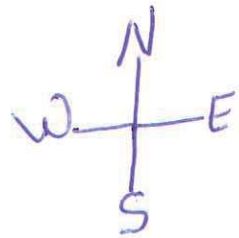
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

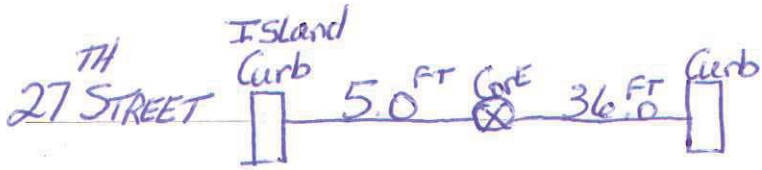
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor





NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

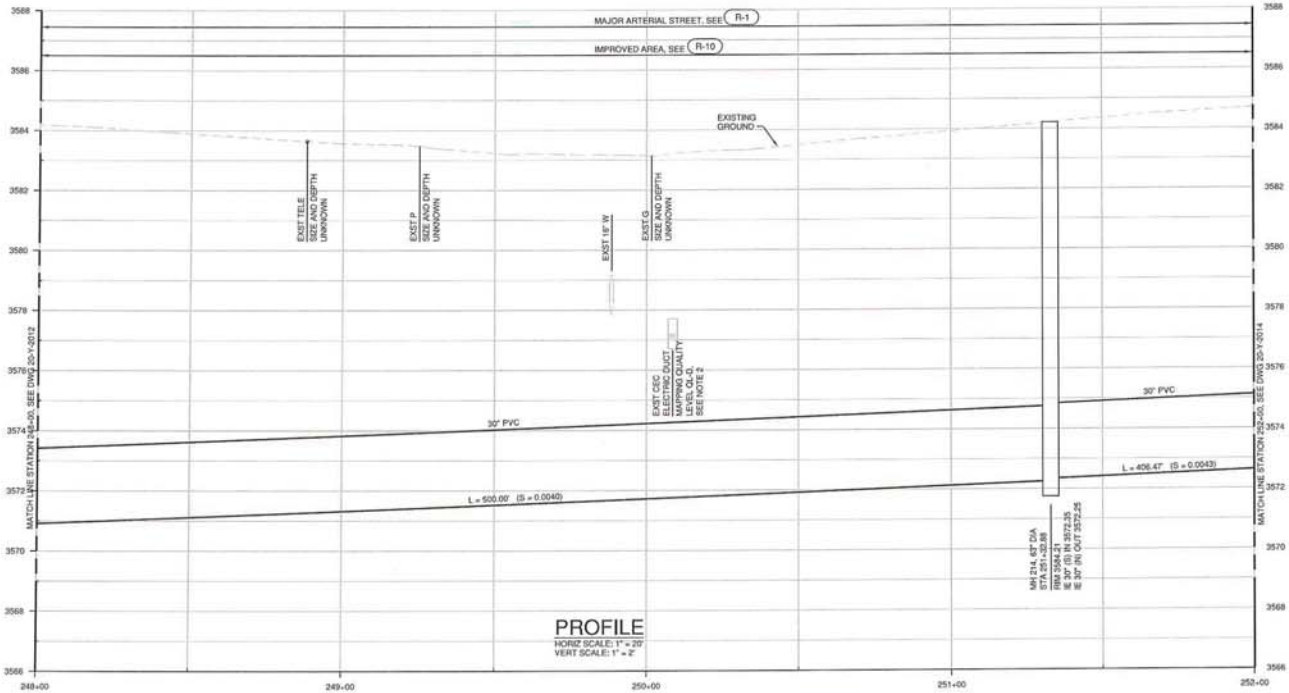
27th st Core Locations

CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497

#8
27th
18.5 of Neff

SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. FIELD VERIFY DEPTH OF POWER CROSSING FOR ADEQUATE CLEARANCE AND APPROVAL BY ENGINEER PRIOR TO ORDERING OR FABRICATING MANHOLES.
3. REPLACE MEDIAN TO PRE-CONSTRUCTION CONDITION, SEE SPECIFICATIONS.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 248+00 TO 252+00

DESCHUTES COUNTY, OREGON

REVISIONS:

CH2MHILL
1000 NE CIRCLE BLVD.
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: M BALDWIN
CHECKED BY: D PETERSON
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 20-Y-2013 SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 20-Y-2013
SHEET: SHT NO
COB # SW0707

PLOT DATE: 9/29/

EXHIBIT B

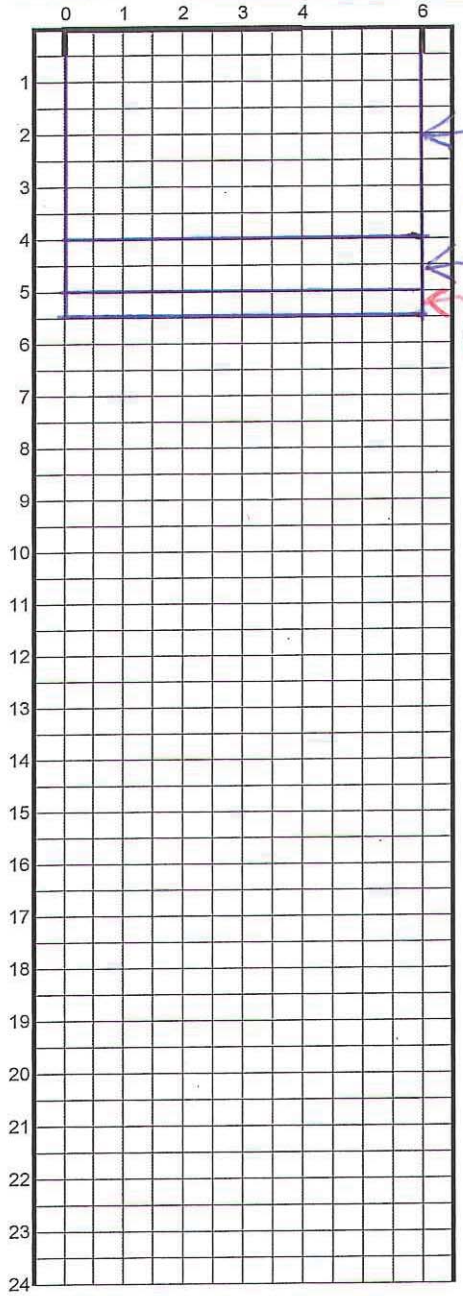
PAVEMENT CORE LOG 9

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: # 9 CORE ON 27TH STREET 150 FT SOUTH OF MEDICAL CENTER DR
CORE LENGTH: 5.5 INCHES

Saved: Yes No
PD #: SW0707
Date: 10-24-2011
Logged By: CITY OF BEND
Designer: CH2MHILL

Key No.: # 9



DRILLED THROUGH PATCH: NO YES

DRILLED ON CRACK: NO YES (Trans. Long. Fat. Other):

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

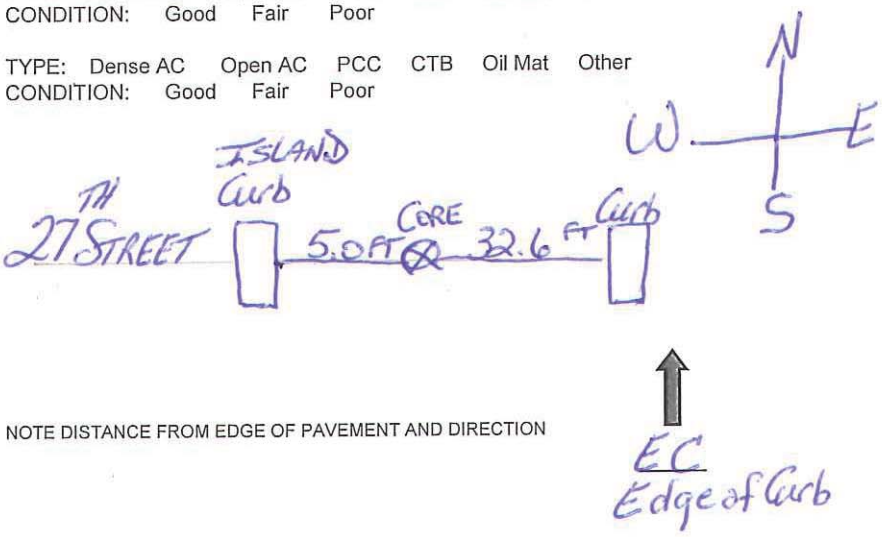
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

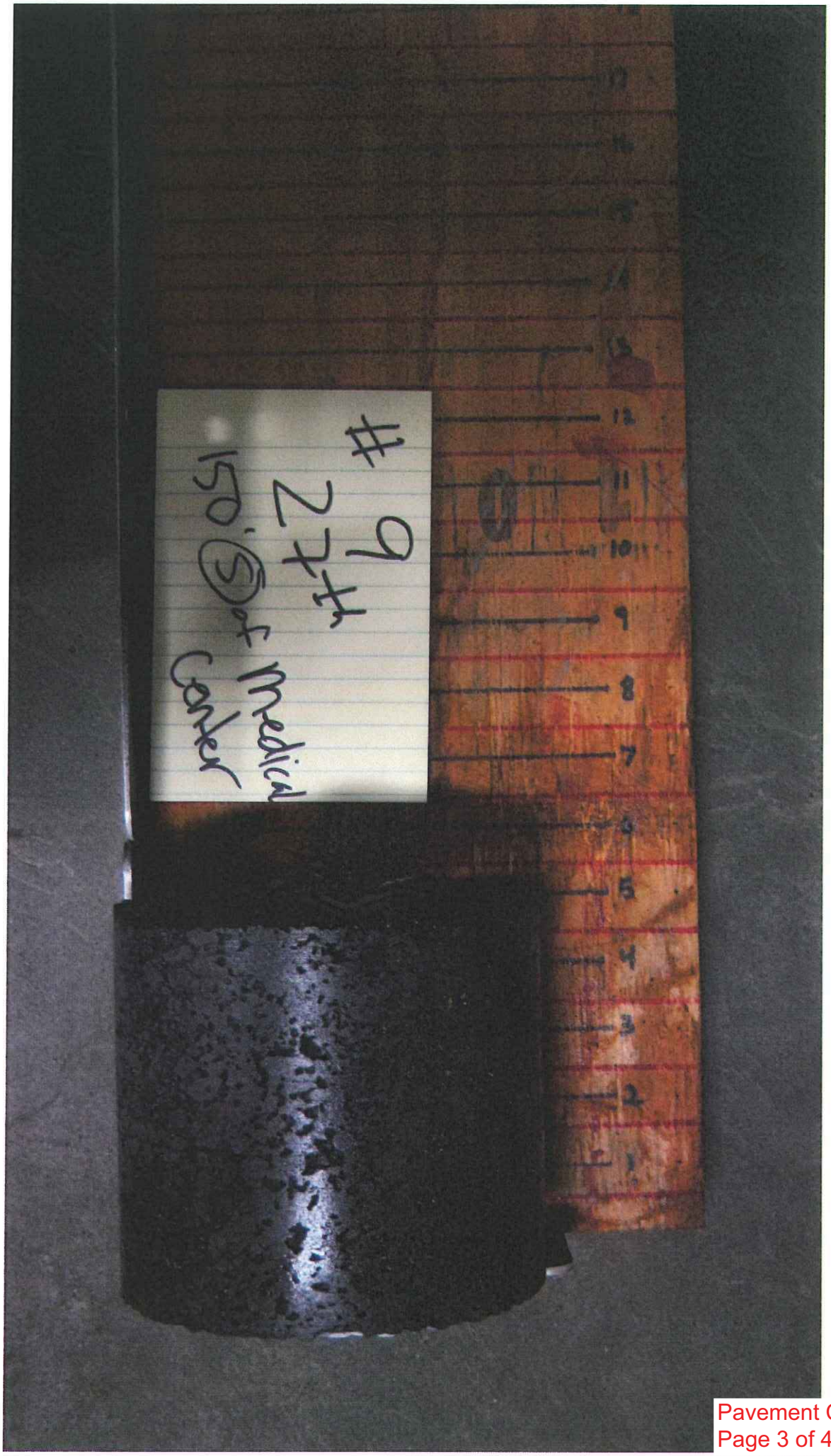
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

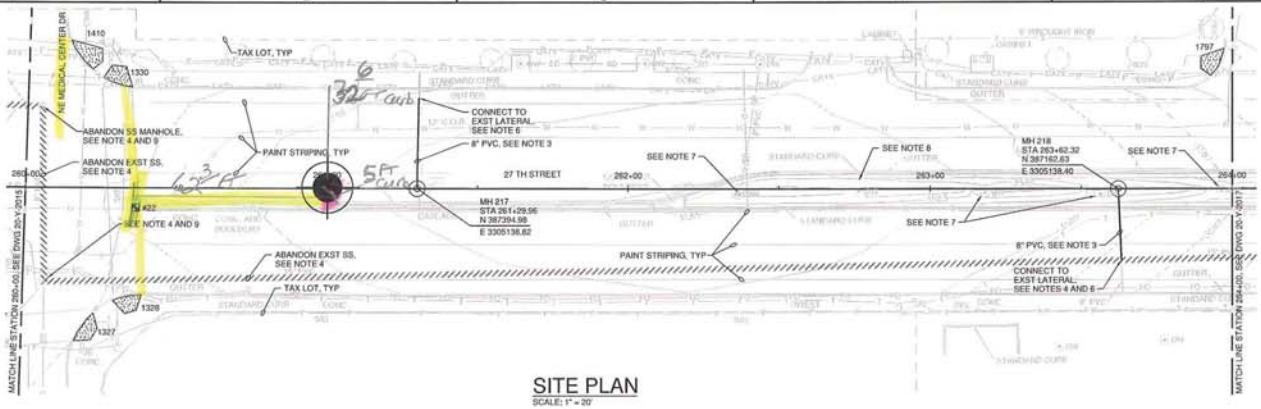


NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

27th st Core Locations

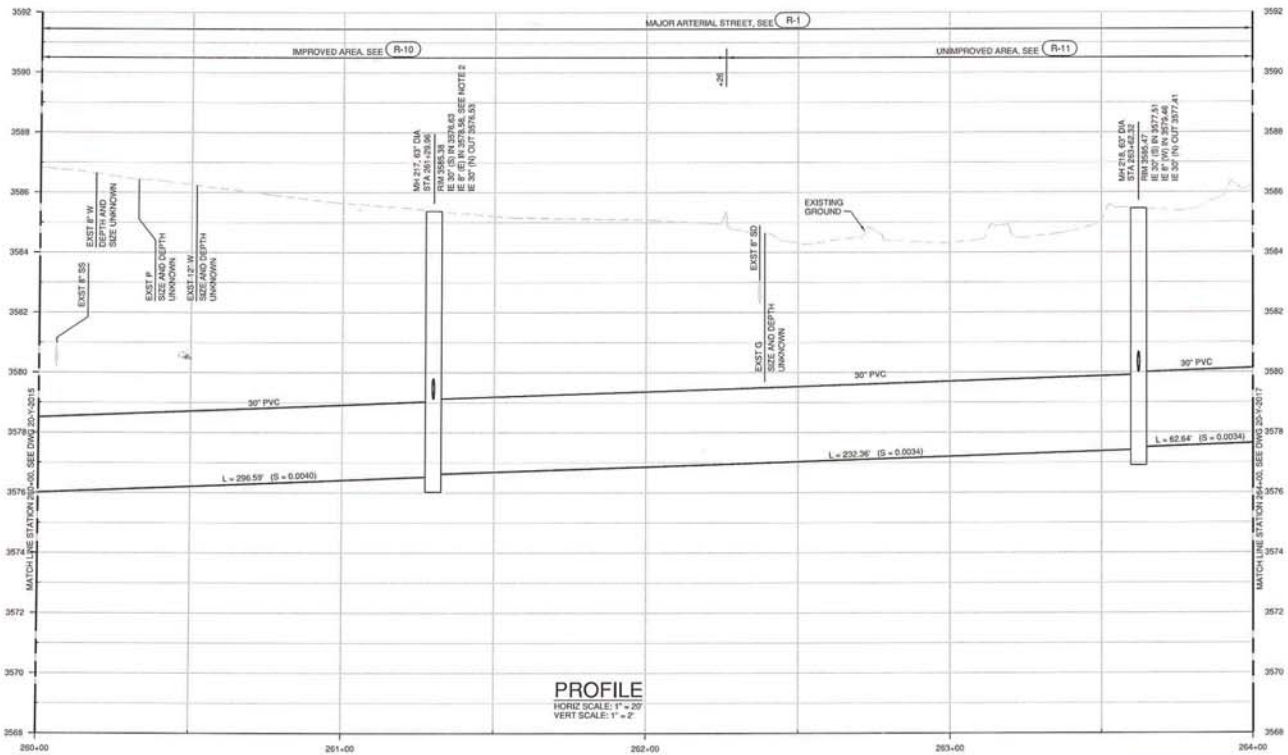
CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497


#9
274
150 S of Medical
Center



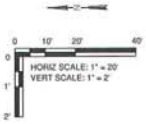
SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'



GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG 5-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. REMOVE AND REPLACE IRRIGATION AND LANDSCAPING TO PRE-CONSTRUCTION CONDITION. SEE ATTACHED AS-BUILT DRAWINGS AND SPECIFICATIONS.
3. CONTRACTOR SHALL MATCH PIPE DIAMETER FOR EXISTING SERVICE LATERAL CONNECTION. SLOPE LATERAL AT 5%.
4. PRIOR TO ABANDONING EXISTING SANITARY SEWER COMPLETE CONSTRUCTION AND CONNECT ALL LATERALS SHOWN THROUGH MH 222.
5. ADJUST INVERT OF LATERAL CONNECTION AS REQUIRED TO MEET SLOPE REQUIREMENTS. PROVIDE EXTERNAL DROP STRUCTURE IF INVERT OF LATERAL IS MORE THAN 2 FEET ABOVE MAINLINE CROWN.
6. DO NOT FABRICATE OR ORDER MANHOLES OR CONSTRUCT TRENCH UNTIL THE INVERT OF THE EXISTING SS LATERAL IS VERIFIED AT THE NEW MH 217 AND MH 218 LOCATIONS. ADJUST INVERTS AND TRENCH PROFILE AS REQUIRED AND AS APPROVED BY ENGINEER.
7. REMOVE AND REPLACE DRYWELL, SEE R-12 OFFSET 5 FEET FROM SANITARY LINE.
8. REPLACE MEDIAN TO PRE-CONSTRUCTION CONDITION. SEE SPECIFICATIONS.
9. PLUG ABANDONED PENETRATIONS IN EXISTING MANHOLE, SEE 3305-702.

BEND SE INTERCEPTOR

SITE PLAN AND PROFILE
STATION 260+00 TO 264+00

DESCHUTES COUNTY, OREGON

REVISIONS:
1.
2.
3.
4.

CH2MHILL
1000 NE CIRCLE BLVD.
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: M BALDWIN
CHECKED BY: D PETERSON
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 20-Y-2016, SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 20-Y-2016
SHEET: SHT NO
COB # SW0707

PLOT DATE: 9/29/

EXHIBIT B

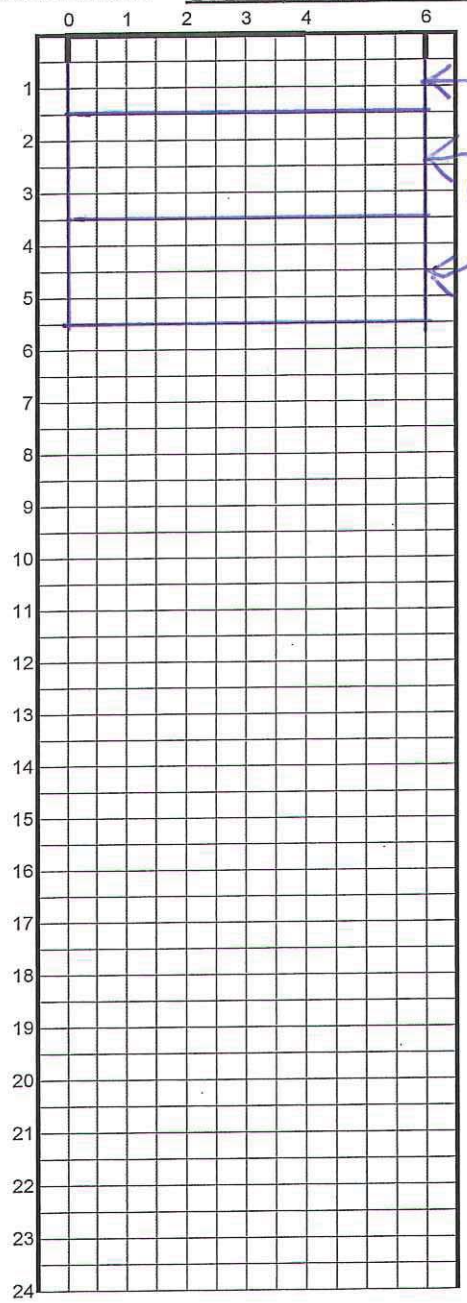
PAVEMENT CORE LOG 10

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #10 CORE ON 27TH STREET 200 FT SOUTH OF MARY ROSE LN
CORE LENGTH: 5.5 INCHES

Saved: Yes No
PD #: SW0707
Date: 10-24-2011
Logged By: CITY of BEND
Designer: CH2 MHILL

Key No.: #10



DRILLED THROUGH PATCH: NO YES

DRILLED ON CRACK: NO YES (Trans. Long. Fat. Other):

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

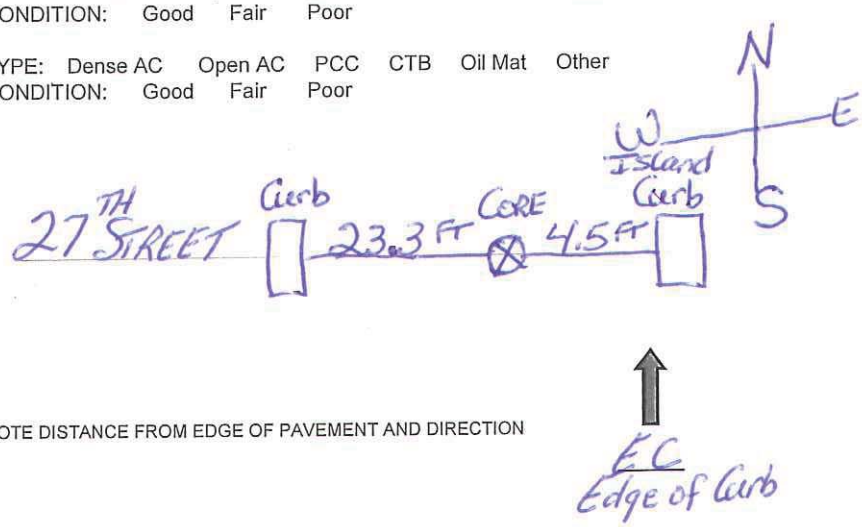
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

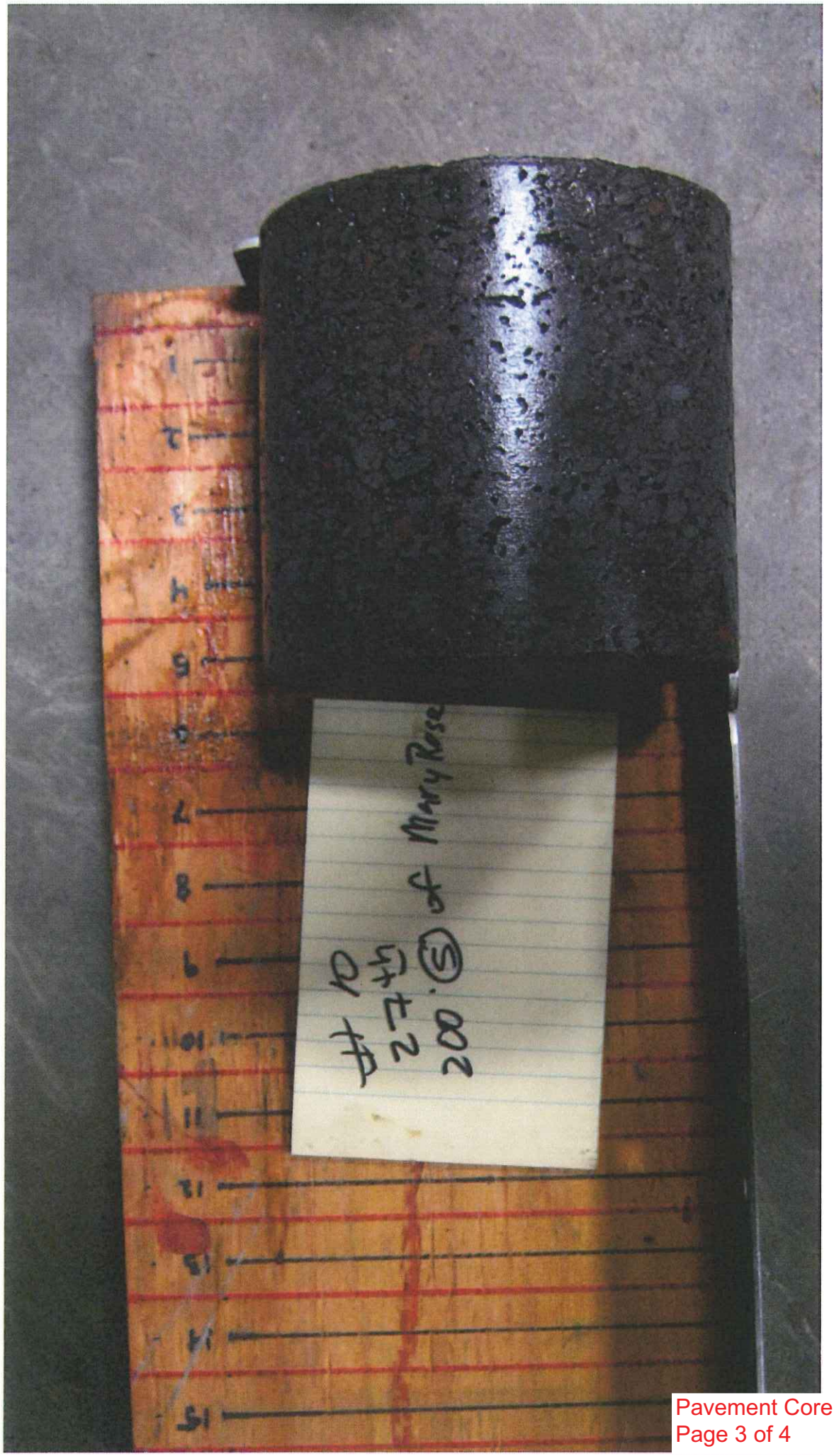


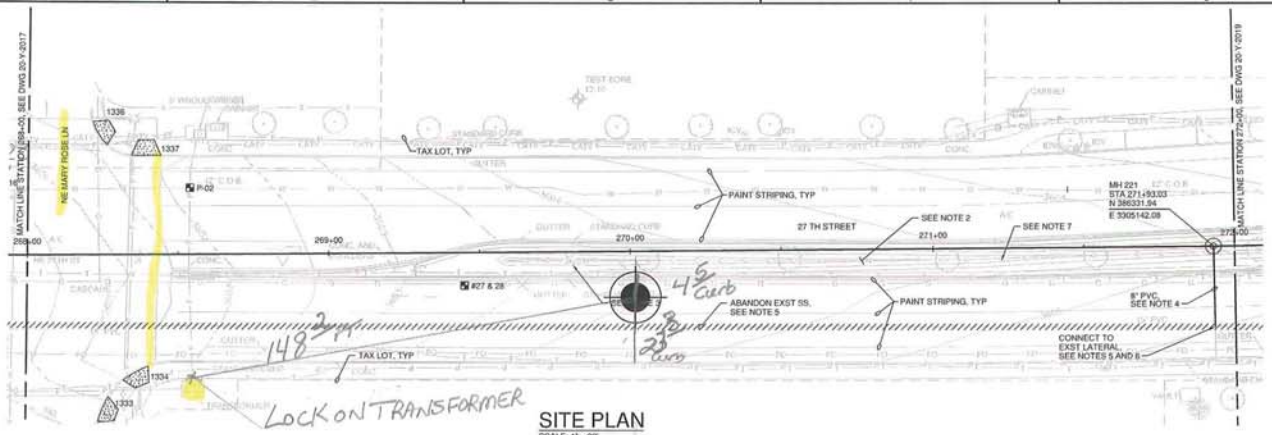
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

EP EP

27th st Core Locations

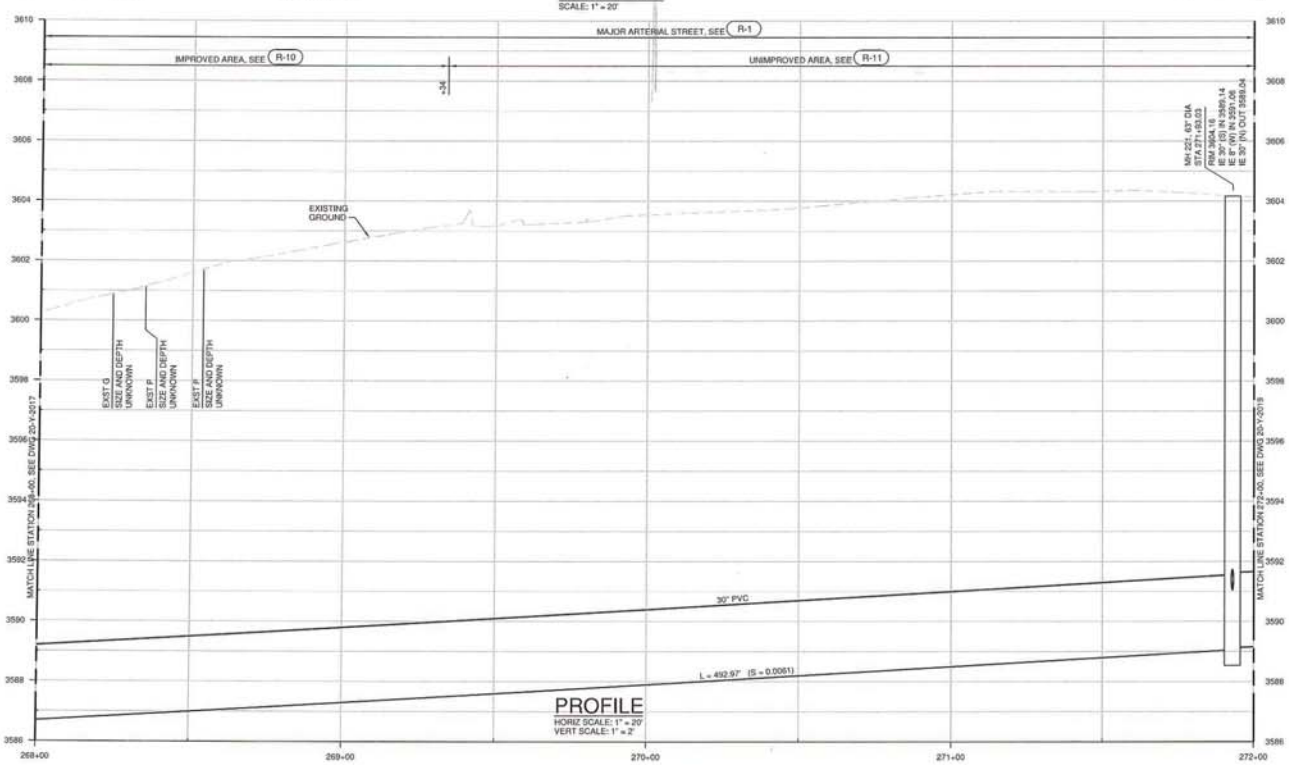
CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497


#10
2+45
280 (S) of Mary Rose



SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG 5-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. REMOVE AND REPLACE IRRIGATION AND LANDSCAPING TO PRE-CONSTRUCTION CONDITION, SEE ATTACHED AS-BUILT DRAWINGS AND SPECIFICATIONS.
3. REPLACE MEDIAN TO PRE-CONSTRUCTION CONDITION, SEE SPECIFICATIONS.
4. ADJUST INVERT OF LATERAL CONNECTION AS REQUIRED TO MEET SLOPE REQUIREMENTS. PROVIDE EXTERNAL DROP STRUCTURE IF INVERT OF LATERAL IS MORE THAN 2 FEET ABOVE MAINLINE CROWN.
5. PRIOR TO ABANDONING EXISTING SANITARY SEWER COMPLETE CONSTRUCTION AND CONNECT ALL LATERALS THROUGH MH 222.
6. DO NOT FABRICATE OR ORDER MANHOLES OR CONSTRUCT TRENCH UNTIL THE INVERT OF THE EXISTING SS LATERAL IS VERIFIED AT THE NEW MH 221 LOCATION. ADJUST INVERTS AND TRENCH PROFILE AS REQUIRED AND AS APPROVED BY ENGINEER.
7. REPLACE MEDIAN TO PRE-CONSTRUCTION CONDITION, SEE SPECIFICATIONS.
8. MATCH PIPE DIAMETER FOR EXISTING SERVICE LATERAL CONNECTION. SLOPE LATERAL EXTENSION AT 5%.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 268+00 TO 272+00
DESCHUTES COUNTY, OREGON

REVISIONS:

CH2MHILL
1000 NE CIRCLE BLVD,
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: M BALDWIN
CHECKED BY: D PETERSON
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 20-Y-2018 SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 20-Y-2018
SHEET: SHT NO
CO# SW0707

PLOT DATE:

Pavement Core #10
Page 4 of 4

EXHIBIT B

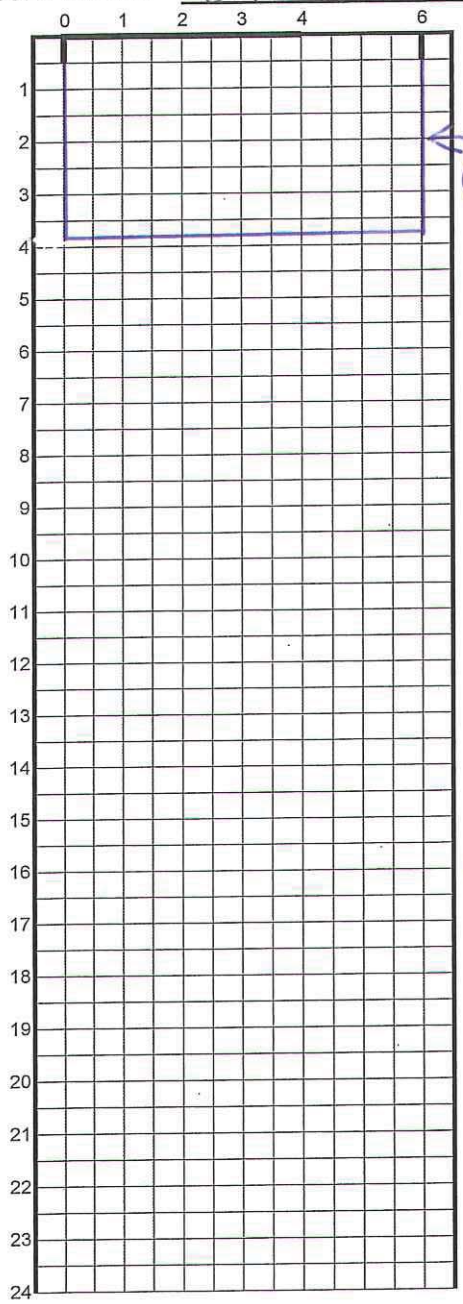
PAVEMENT CORE LOG 11

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #11 CORE on 27TH STREET BETWEEN Forum DR and GRAND way NORTH BOUND CENTER LANE
CORE LENGTH: 3.75 INCHES

Saved: Yes No
PD #: SW0707
Date: 10-24-2011
Logged By: CITY of BEND
Designer: CH2MHILL

Key No.: #11



DRILLED THROUGH PATCH: NO YES

DRILLED ON CRACK: NO YES (Trans. Long. Fat. Other):

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

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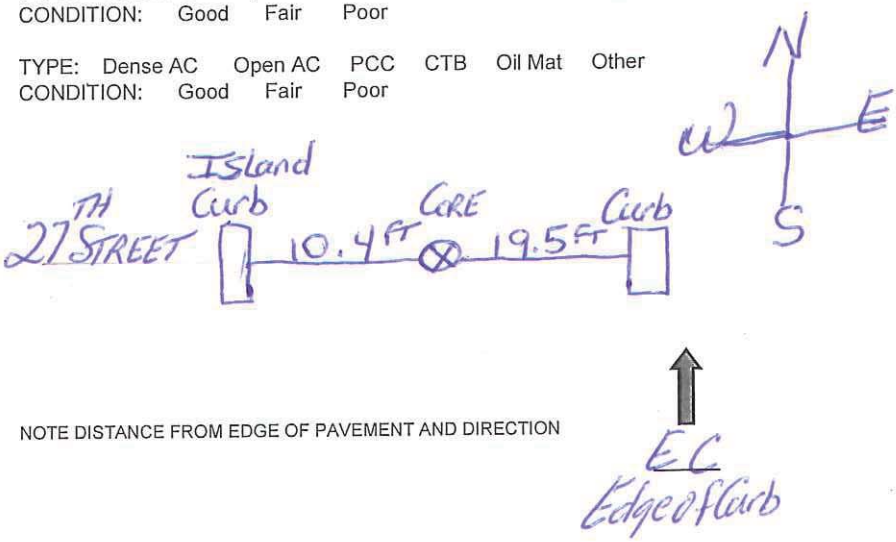
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

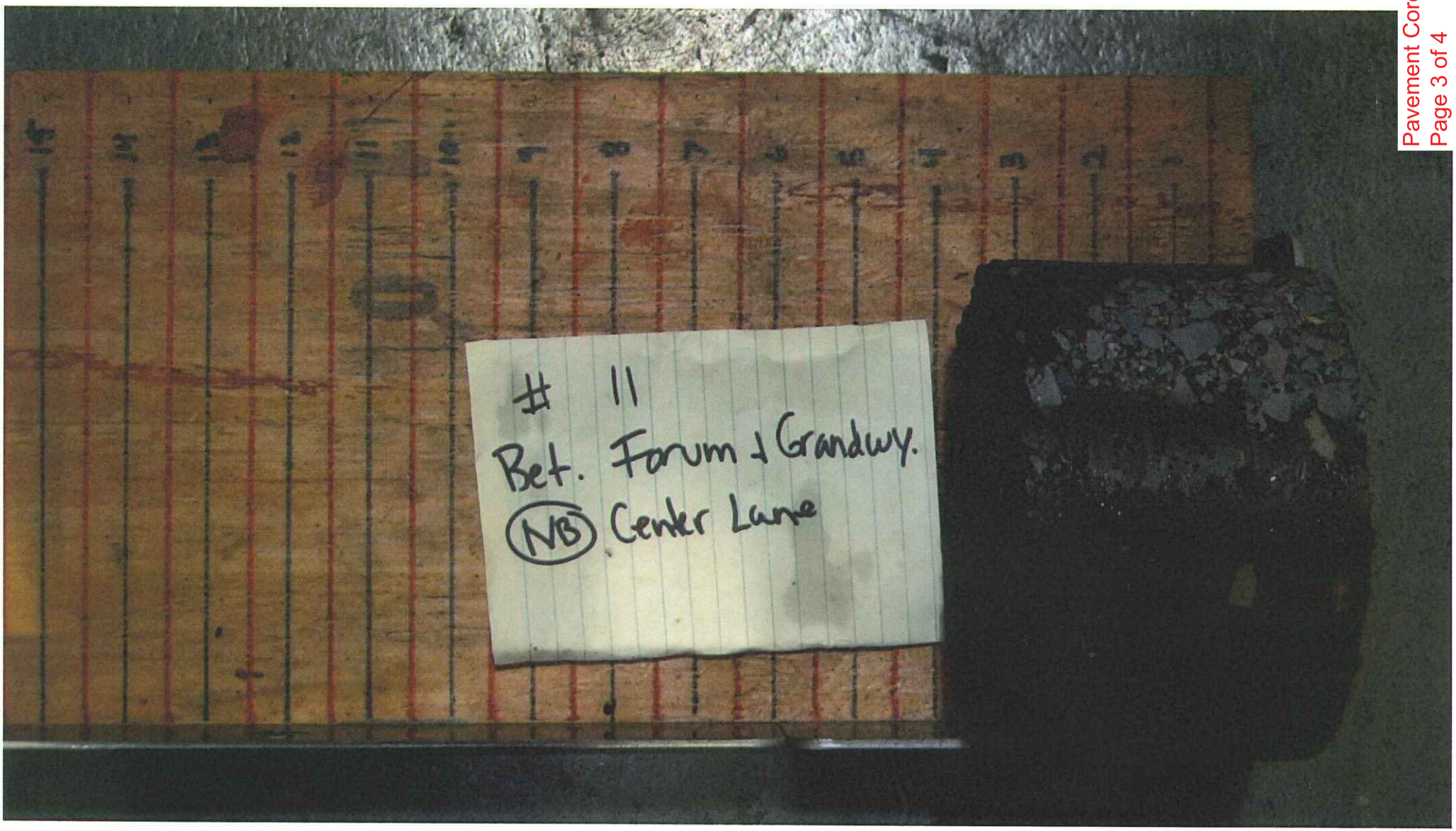


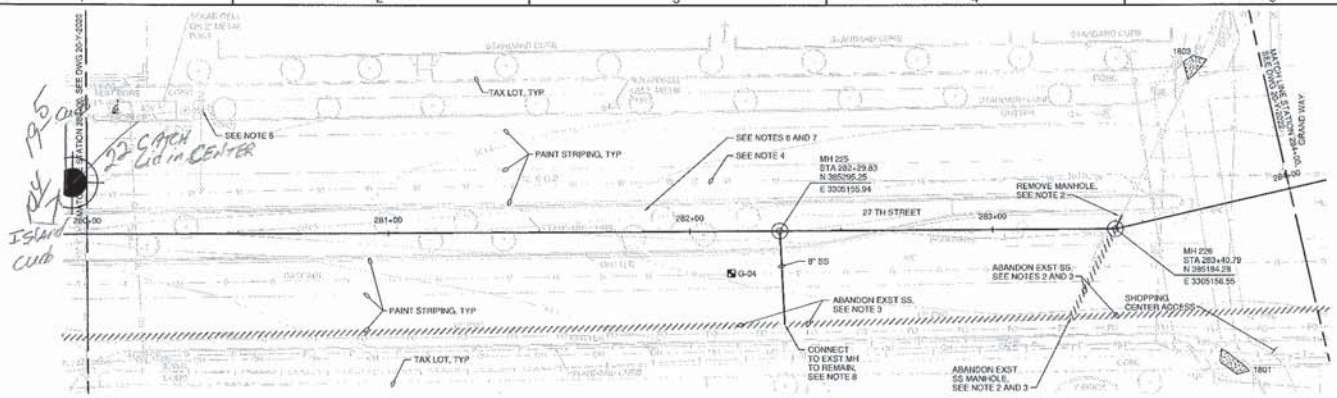
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

EP EP

27th st Core Locations

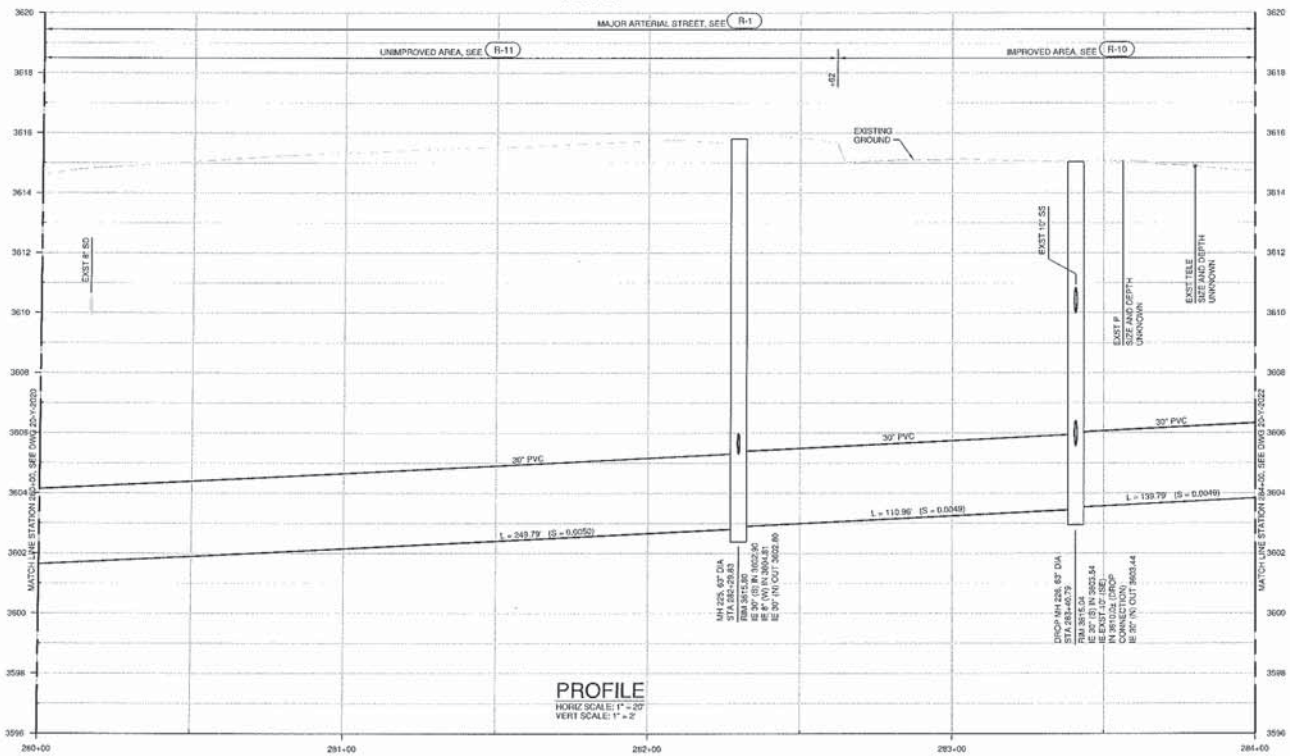
CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497


11
Bet. Forum + Grandway.
NB Center Lane



SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. PROVIDE TEMPORARY SEWER BYPASS SSYTEM DURING CONSTRUCTION (STA 283+40.79) AROUND SEI MH 226, CONSTRUCTION OF SEI DOWNSTREAM OF MH 226 SHALL BE COMPLETE, TESTED AND ACCEPTED PRIOR TO DIRECTING ANY FLOW INTO IT OR ABANDONING EXISTING SEWER.
3. COORDINATE SEWER ABANDONMENT WITH COMPLETION OF MH 302 AND DIVERSION OF FLOW.
4. INSTALL CONCRETE STRADDLE THRUST BLOCK AND ISOLATION GATE VALVE. COORDINATE WITH COB FOR TEMPORARY SHUTDOWN OF WATERLINE FOR INSTALLATION OF CONCRETE STRADDLE THRUST BLOCK AND VALVE. INSTALL ISOLATION GATE VALVE EVERY 300 FEET. PROVIDE TEMPORARY BACKFEED TO ALL AFFECTED SERVICES IN ISOLATED SECTION. SEE DETAIL 1 ON 20-Y-5001 AND SPECIFICATIONS.
5. COORDINATE HYDRANT SHUTOFF WITH COB AND EMERGENCY SERVICES.
6. REMOVE AND REPLACE IRRIGATION AND LANDSCAPING TO PRE-CONSTRUCTION CONDITION, SEE ATTACHED AS-BUILT DRAWINGS AND SPECIFICATIONS.
7. REPLACE MEDIAN TO PRE-CONSTRUCTION CONDITION, SEE SPECIFICATIONS.
8. REMOVE EXISTING GROUT CHANNEL AND RESHAPE TO REDIRECT FLOW TO NEW OUTLET. PROVIDE 0.2' DROP THROUGH MANHOLE.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 280+00 TO 284+00

DESCHUTES COUNTY, OREGON

REVISIONS:
1.
2.
3.

CH2MHILL
1000 NE CIRCLE BLVD, BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: M. BALDWIN
CHECKED BY: D. PETERSON
APPROVED BY: B. FULLER
SCALE: AS SHOWN
FILE: 20-Y-2021_SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 20-Y-2021
SHEET: SHT NO
COB # SW0707

PLOT DATE:

EXHIBIT B

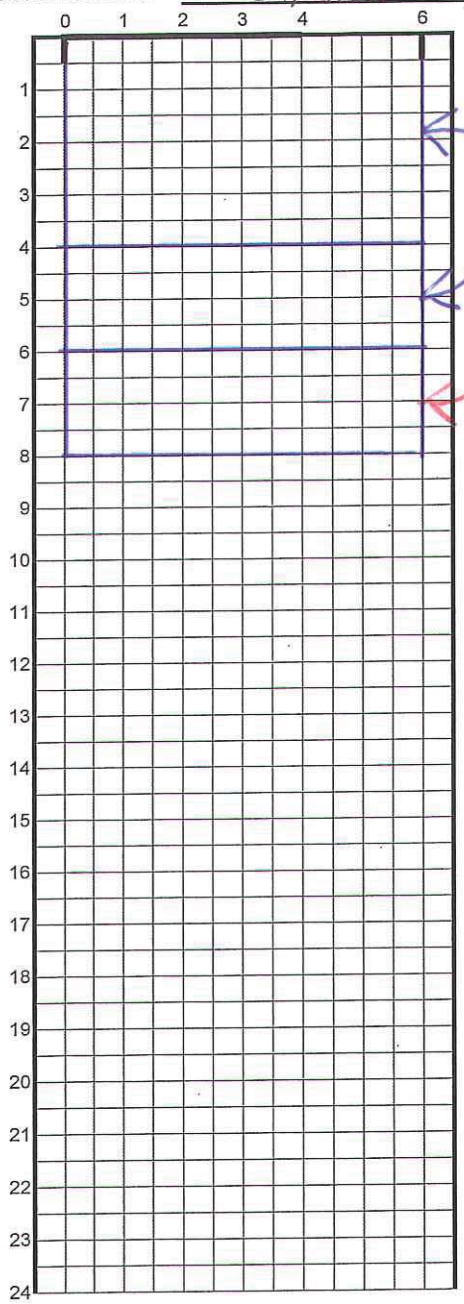
PAVEMENT CORE LOG 12

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #12 CORE ON 27TH STREET 150 FT SOUTH OF HWY 20 IN THE WEST BOUND TRAVEL LANE
CORE LENGTH: 8 INCHES

Saved: Yes No
PD #: SW0707
Date: 10-24-2011
Logged By: CITY OF BEND
Designer: CH2M HILL

Key No.: #12



DRILLED THROUGH PATCH: NO YES

DRILLED ON CRACK: NO YES (Trans. Long. Fat. Other):

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

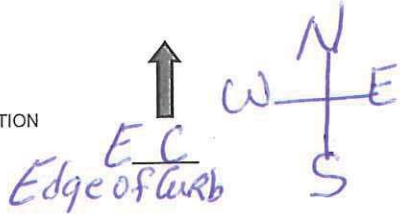
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

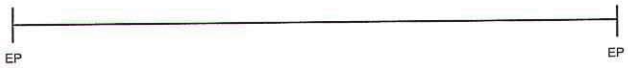
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

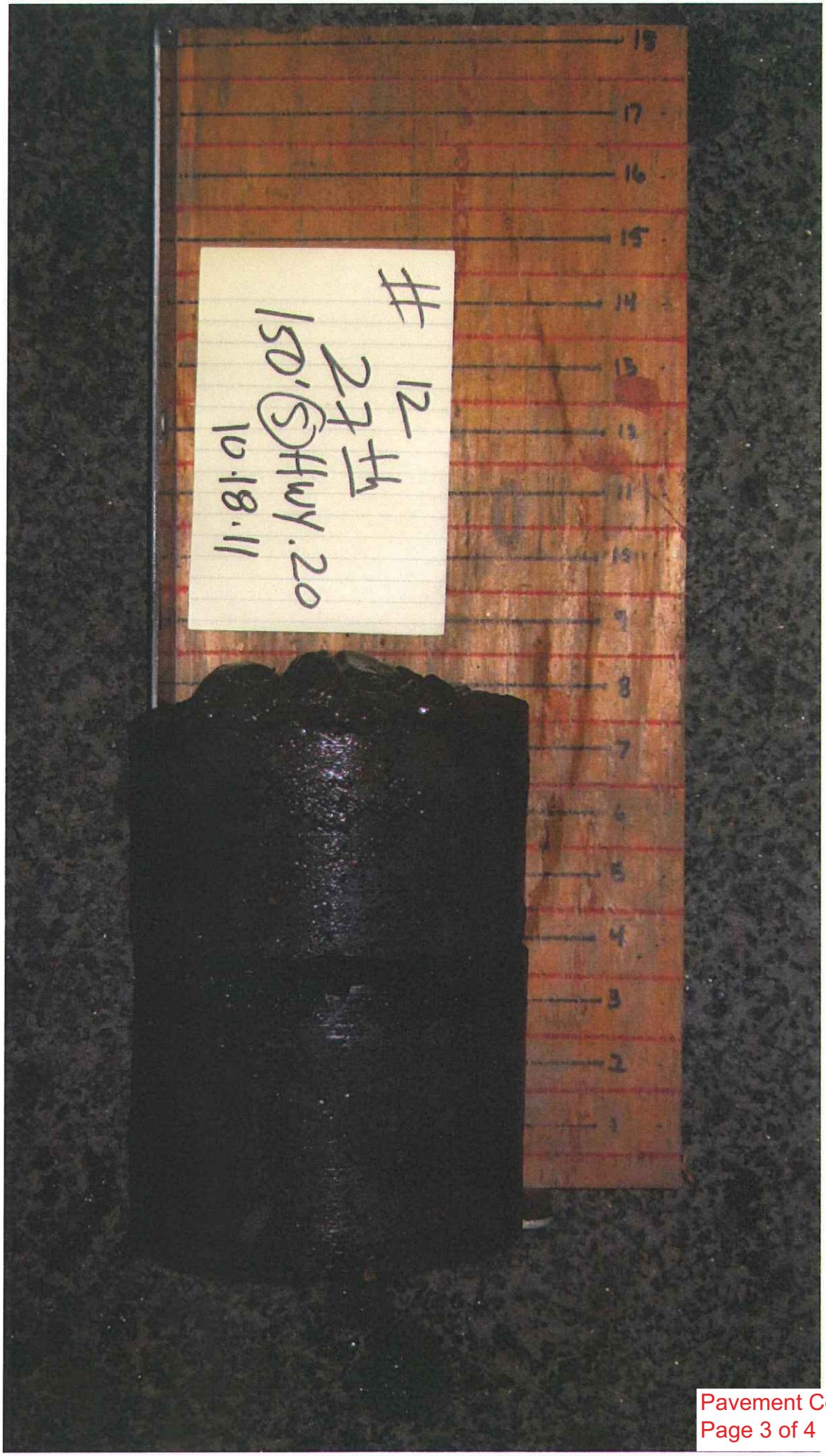




Pavement Core #12
Page 1 of 4

27th st Core Locations

CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497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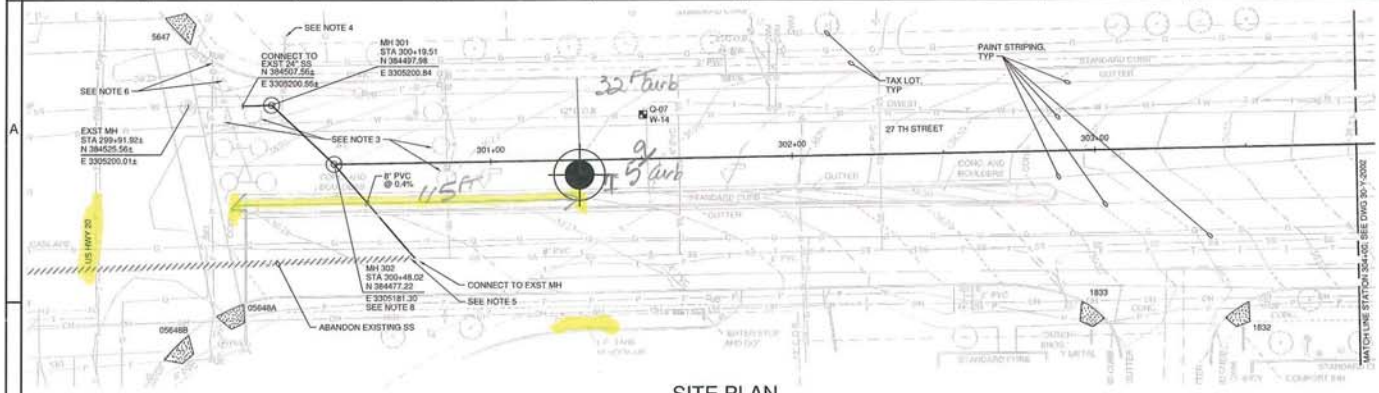
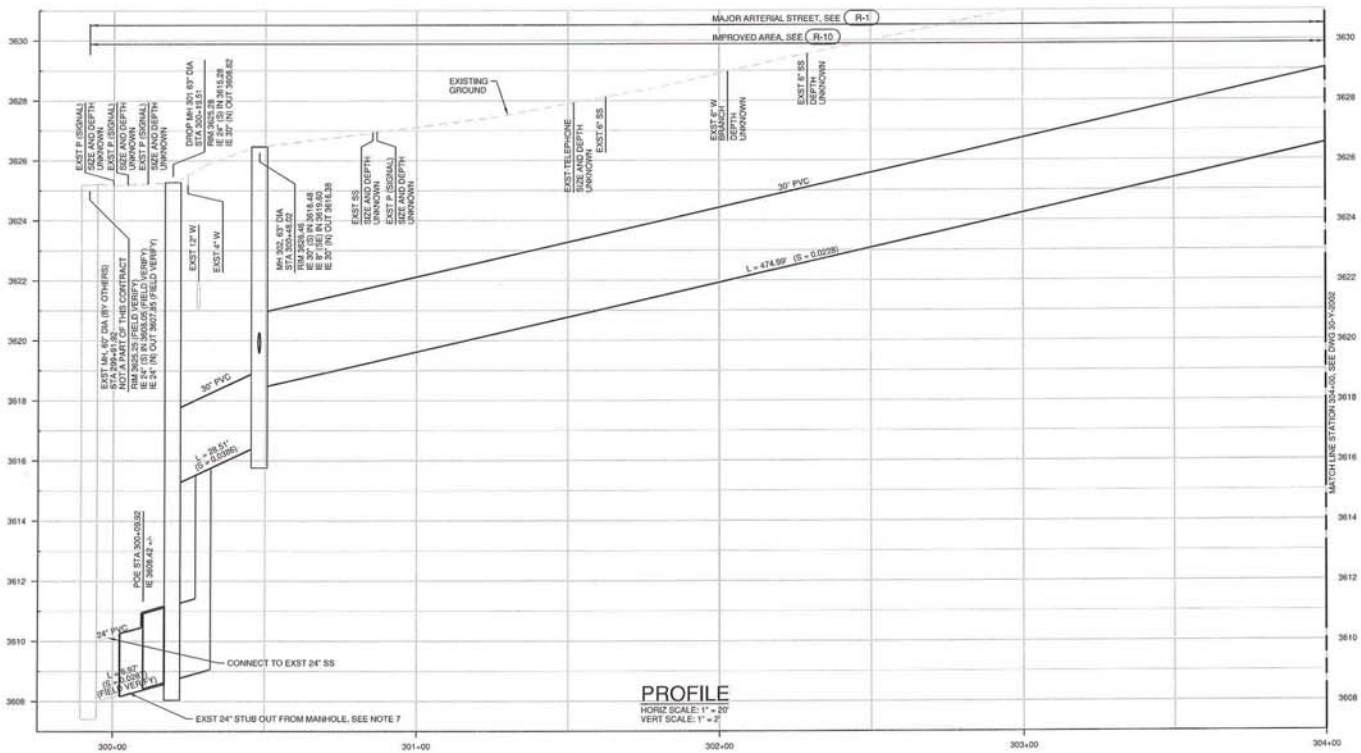
#22
150@Hwy.20
10.18.11



SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. CONNECT TO EXISTING 24" SEWER.
3. IN PAVEMENT TRAFFIC CONTROL SENSORS DO NOT NEED TO BE REPLACED.
4. COORDINATE WITH EMERGENCY SERVICES AND CITY OF BEND TO REMOVE FIRE LINE DURING CONSTRUCTION. REPLACE METER AND FH IF NECESSARY FOR CONSTRUCTION. SEE DRAWINGS W-7, W-5. CONFIRM WATER METER TYPE WITH CITY.
5. PLUG AND CAP EXISTING PIPE WITH WATERTIGHT SEAL.
6. PROTECT SIGNAL WIRES.
7. PROVIDE 30" X 24", ECCENTRIC, WATER TIGHT, GASKETED REDUCER TO CONNECT INTERCEPTOR TO EXISTING MANHOLE STUBOUT. FIELD VERIFY LOCATION AND DEPTH BEFORE COMMENCING CONSTRUCTION. ORDERING OR FABRICATING ANY MANHOLES.
8. DO NOT FABRICATE OR ORDER MANHOLE OR CONSTRUCT TRENCH UNTIL THE INVERT OF THE EXISTING SANITARY SEWER IS VERIFIED.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 300+00 TO 304+00

DESCHUTES COUNTY, OREGON

REVISIONS:

CH2MHILL
1000 NE CIRCLE BLVD.,
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: J KOCH
CHECKED BY: J MCWADE
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 30-Y-2001, SW0707
DATE: MAY 2010

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 30-Y-2001
SHEET: SHT NO
COB # SW0707

PLOT DATE:

Pavement Core #12
Page 4 of 4

EXHIBIT B

PAVEMENT CORE LOG 13

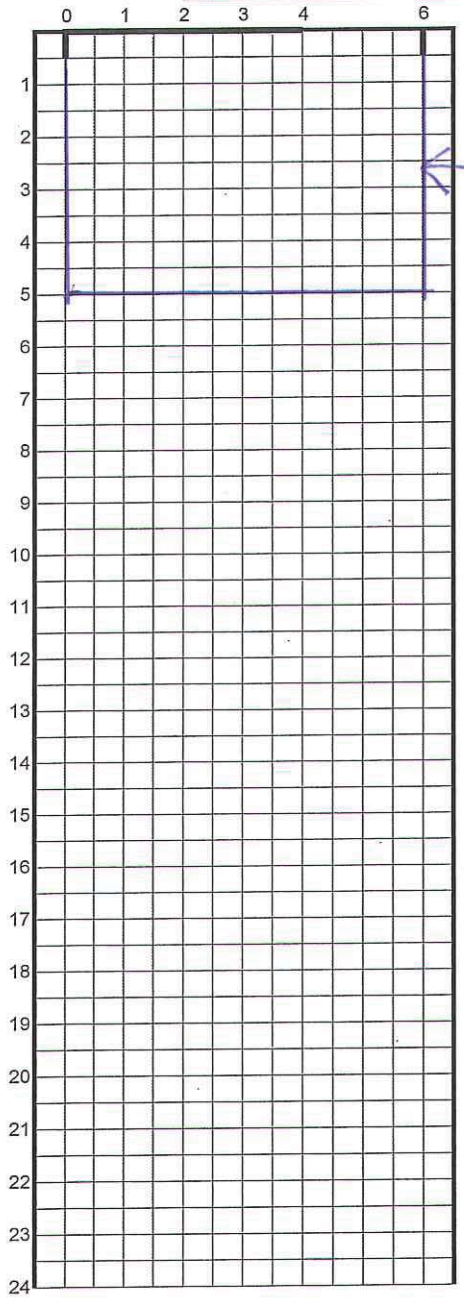
IN THE NORTHBOUND CENTER LANE

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #13 CORE ON 27TH STREET 200' NORTH OF BEAR CREEK
CORE LENGTH: 5 INCHES

Saved: Yes No
PD # SW0707
Date: 10-24-2011
Logged By: CITY OF BEND
Designer: CH2MHILL

Key No.: #13



DRILLED THROUGH PATCH: NO YES

DRILLED ON CRACK: NO YES (Trans. Long. Fat. Other):

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

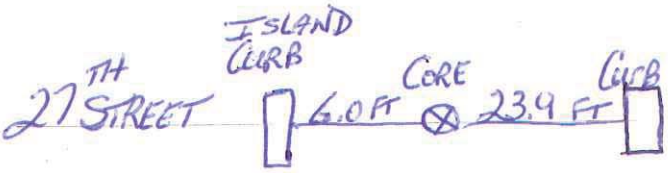
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

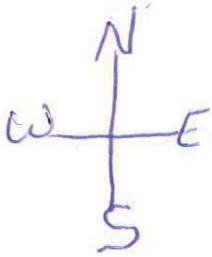
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor



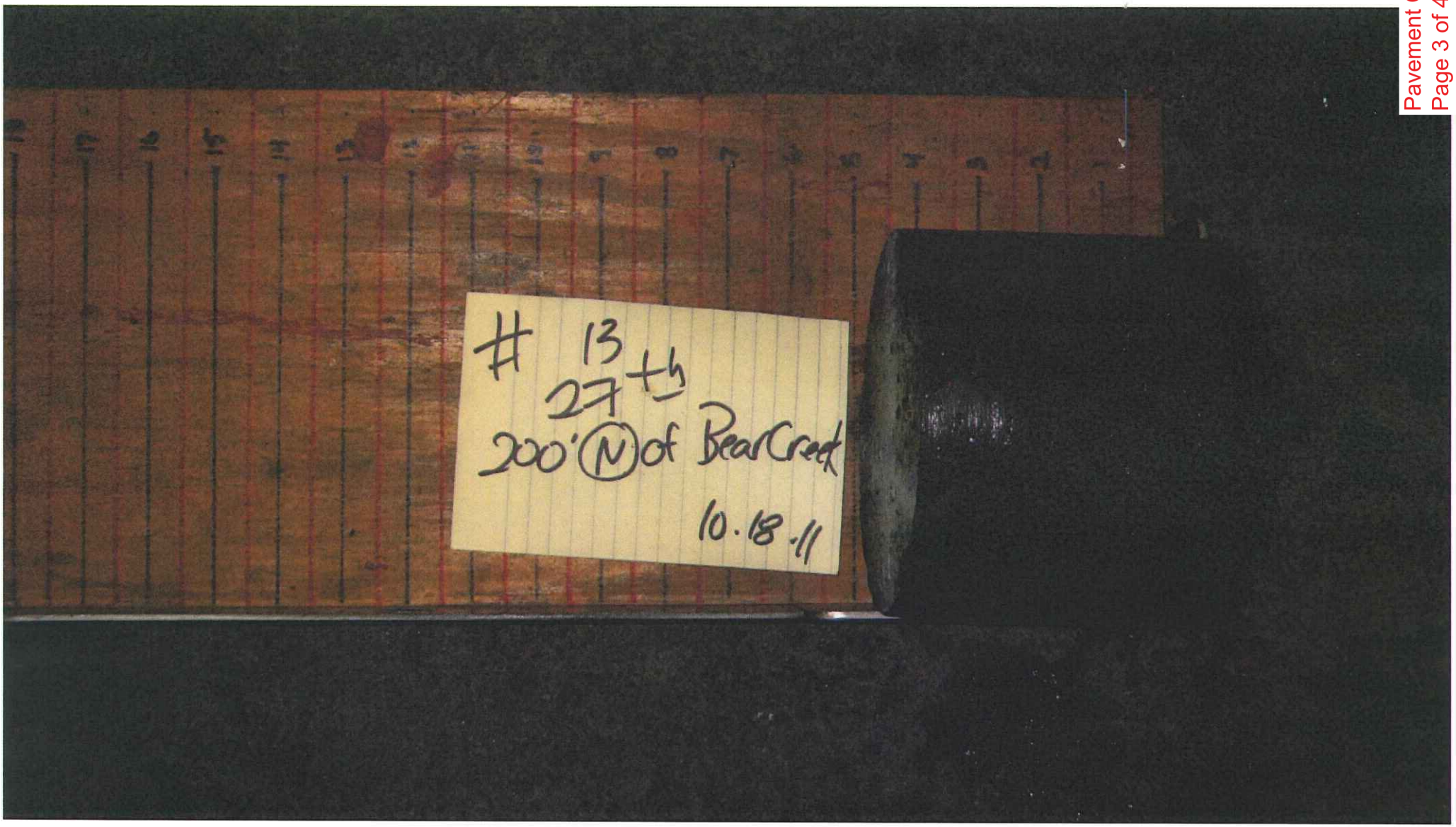


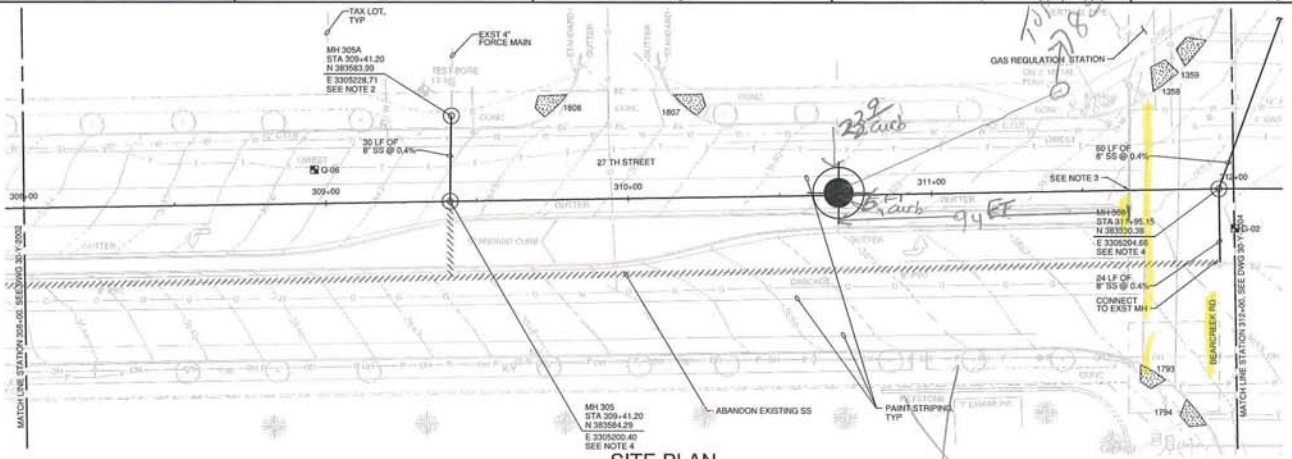
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION

EC
Edge of Curb

27th st Core Locations

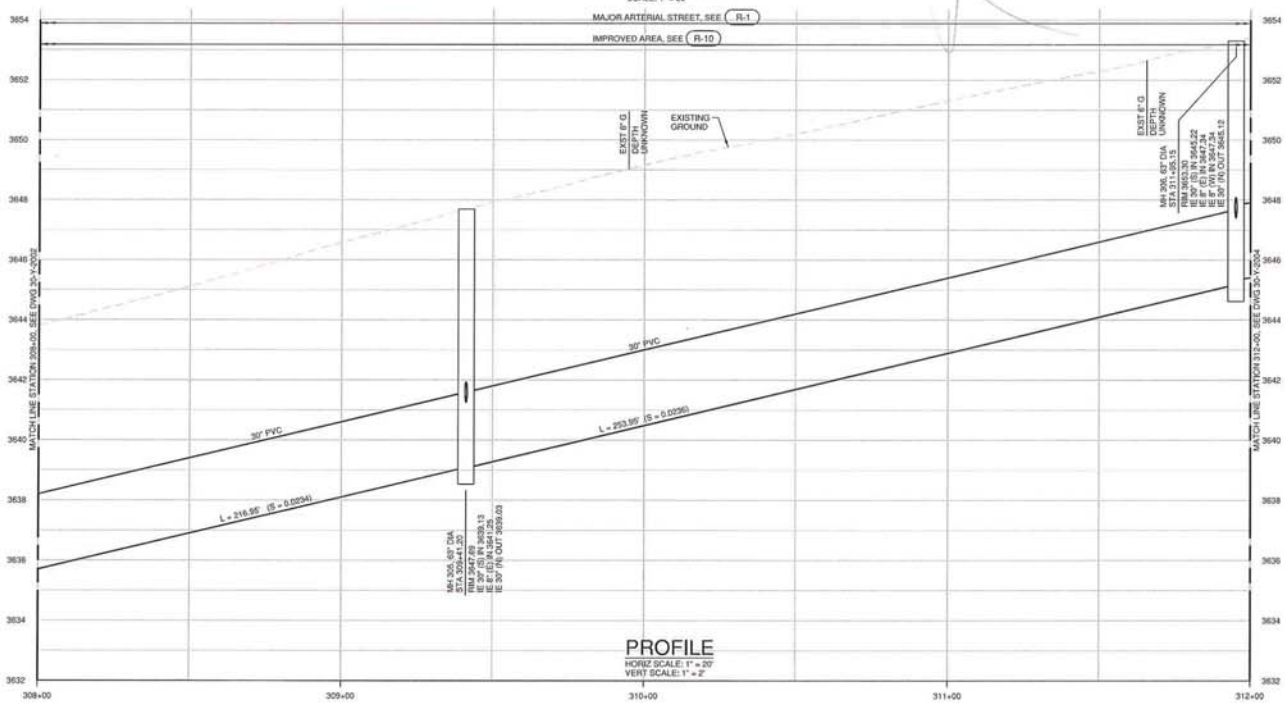
CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497


#13
27th
200' (N) of Bear Creek
10.18.11



SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. CONSTRUCT MANHOLE OVER EXISTING 4" FORCE MAIN. VERIFY DEPTH PRIOR TO FABRICATING MANHOLE.
3. CNG REPRESENTATIVE TO BE ON SITE DURING EXCAVATION NEAR GAS LINE. CONTRACTOR SHALL PROVIDE NOTICE TO CNG PRIOR TO CONSTRUCTION IN THIS AREA.
4. DO NOT FABRICATE OR ORDER MANHOLE OR CONSTRUCT TRENCH UNTIL THE INVERT OF THE EXISTING SANITARY SEWER IS VERIFIED.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 308+00 TO 312+00
DESCHUTES COUNTY, OREGON

REVISIONS:

CH2MHILL
1000 NE CIRCLE BLVD, BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: J. KOCH
CHECKED BY: J. MAWADE
APPROVED BY: R FULLER
SCALE: AS SHOWN
FILE: 30-Y-2003 SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 30-Y-2003
SHEET: SHT NO
COB # SW0707

PLOT DATE:

EXHIBIT B

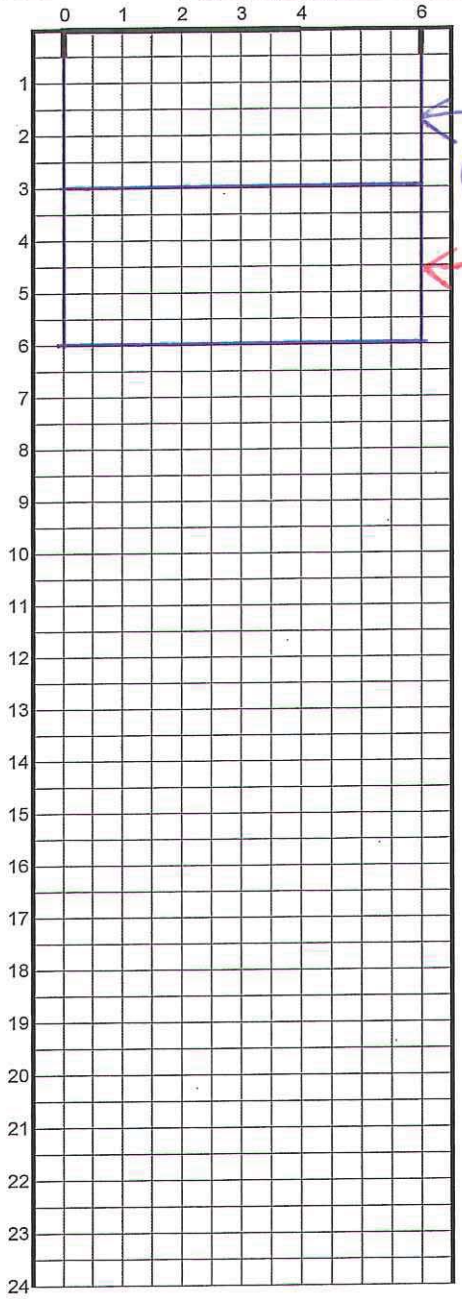
PAVEMENT CORE LOG 14

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #14 CORE LOCATION ON 27TH STREET JUST WEST OF MOON AREA IN SUN GARDEN CENTER
CORE LENGTH: 6 INCHES

Saved: Yes No
PD #: SW0707
Date: 10-24-2011
Logged By: CITY OF BEND
Designer: CH2MHILL

Key No.: #14



DRILLED THROUGH PATCH: (NO) YES

DRILLED ON CRACK: (NO) YES (Trans. Long. Fat. Other):

TYPE: (Dense AC) Open AC PCC CTB Oil Mat Other
CONDITION: (Good) Fair Poor

TYPE: Dense AC Open AC PCC CTB (Oil Mat) Other
CONDITION: Good Fair (Poor)

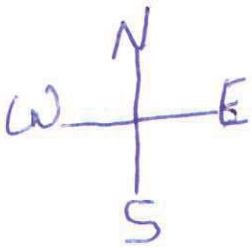
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

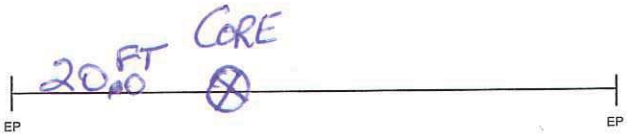
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor



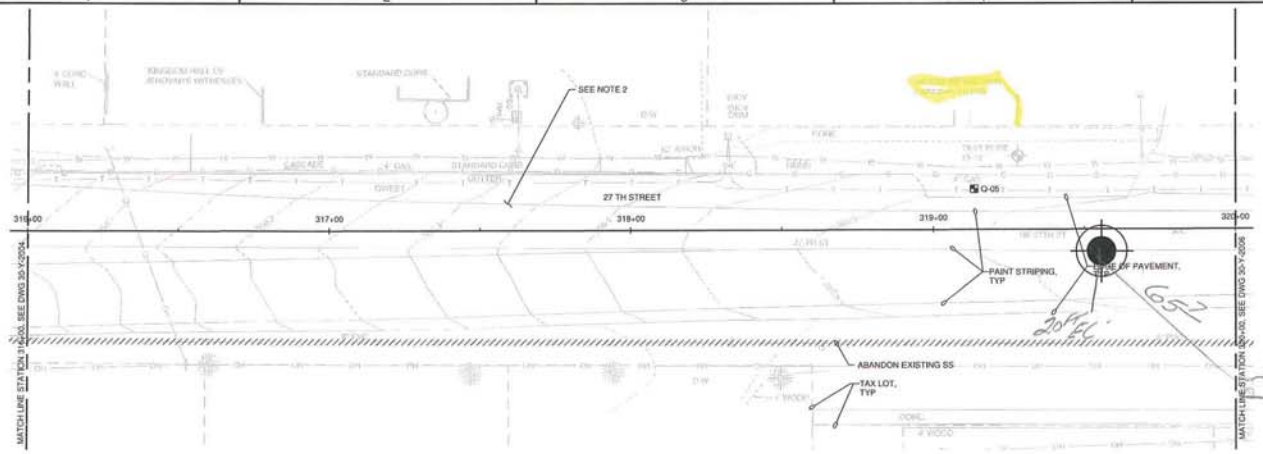
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION



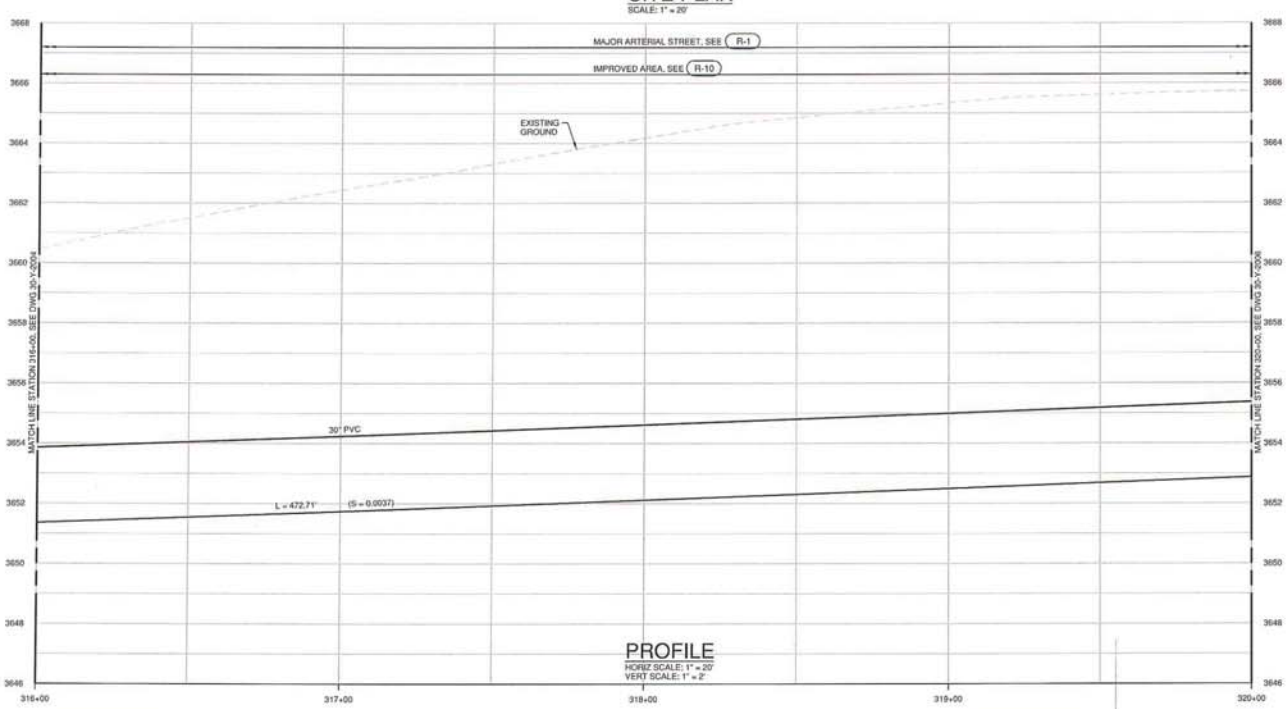
27th st Core Locations

CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497

14
27th
500 (S) of BCC church
10.17.11



SITE PLAN
SCALE: 1" = 20'



PROFILE
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'

GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. ABANDONED GAS LINE NOT SHOWN ON PLANS, FIELD VERIFY. MAPPING QUALITY LEVEL QL-D.

GREEN Transformer Box

NORTH EAST CORNER OF Green Box

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 316+00 TO 320+00
DESCHUTES COUNTY, OREGON

REVISIONS:

CH2MHILL
1000 NE CIRCLE BLVD,
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: J KOCH
CHECKED BY: J McWADE
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 30-Y-2005_SW0707
DATE: MAY 2011

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 30-Y-2005
SHEET: SHT NO
COB # SW0707

PLOT DATE: 9

EXHIBIT B

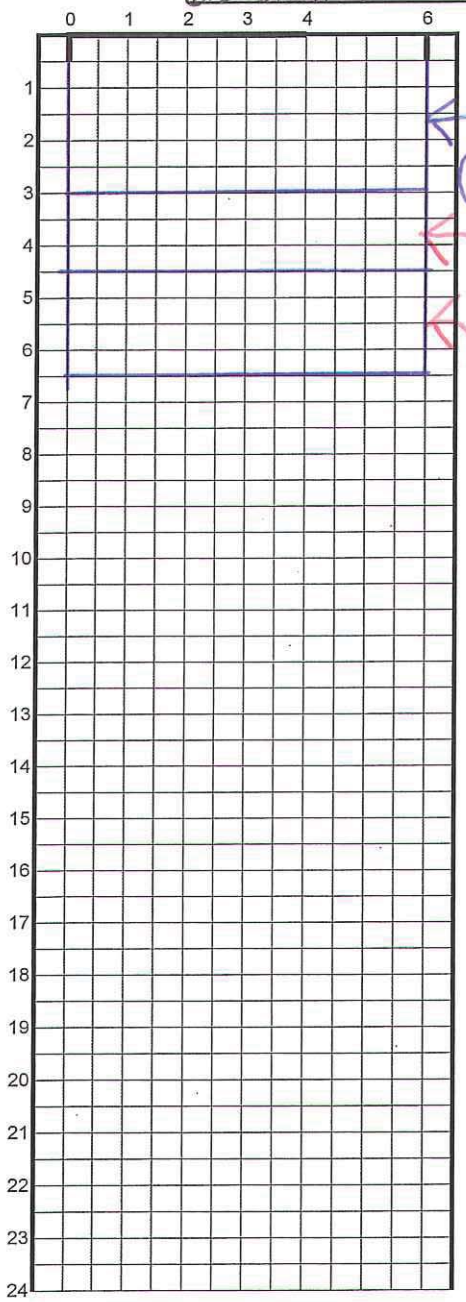
PAVEMENT CORE LOG 15

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #15 CORE ON 27TH STREET 200 FT SOUTH OF ANNE LN
CORE LENGTH: 6.5 INCHES

Saved: Yes No
PD # SW0707
Date: 10-24-2011
Logged By: CITY of BEND
Designer: CH2M HILL

Key No.: # 15



DRILLED THROUGH PATCH: (NO) YES

DRILLED ON CRACK: (NO) YES (Trans. Long. Fat. Other):

TYPE: (Dense AC) Open AC PCC CTB Oil Mat Other
CONDITION: (Good) Fair Poor

TYPE: Dense AC Open AC PCC CTB (Oil Mat) Other
CONDITION: Good Fair (Poor)

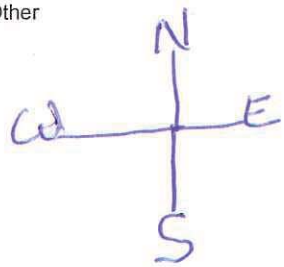
TYPE: Dense AC Open AC PCC CTB (Oil Mat) Other
CONDITION: Good (Fair) Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

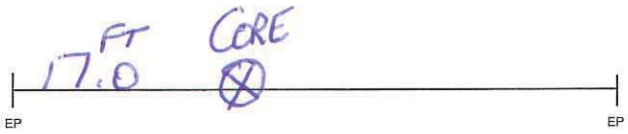
TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

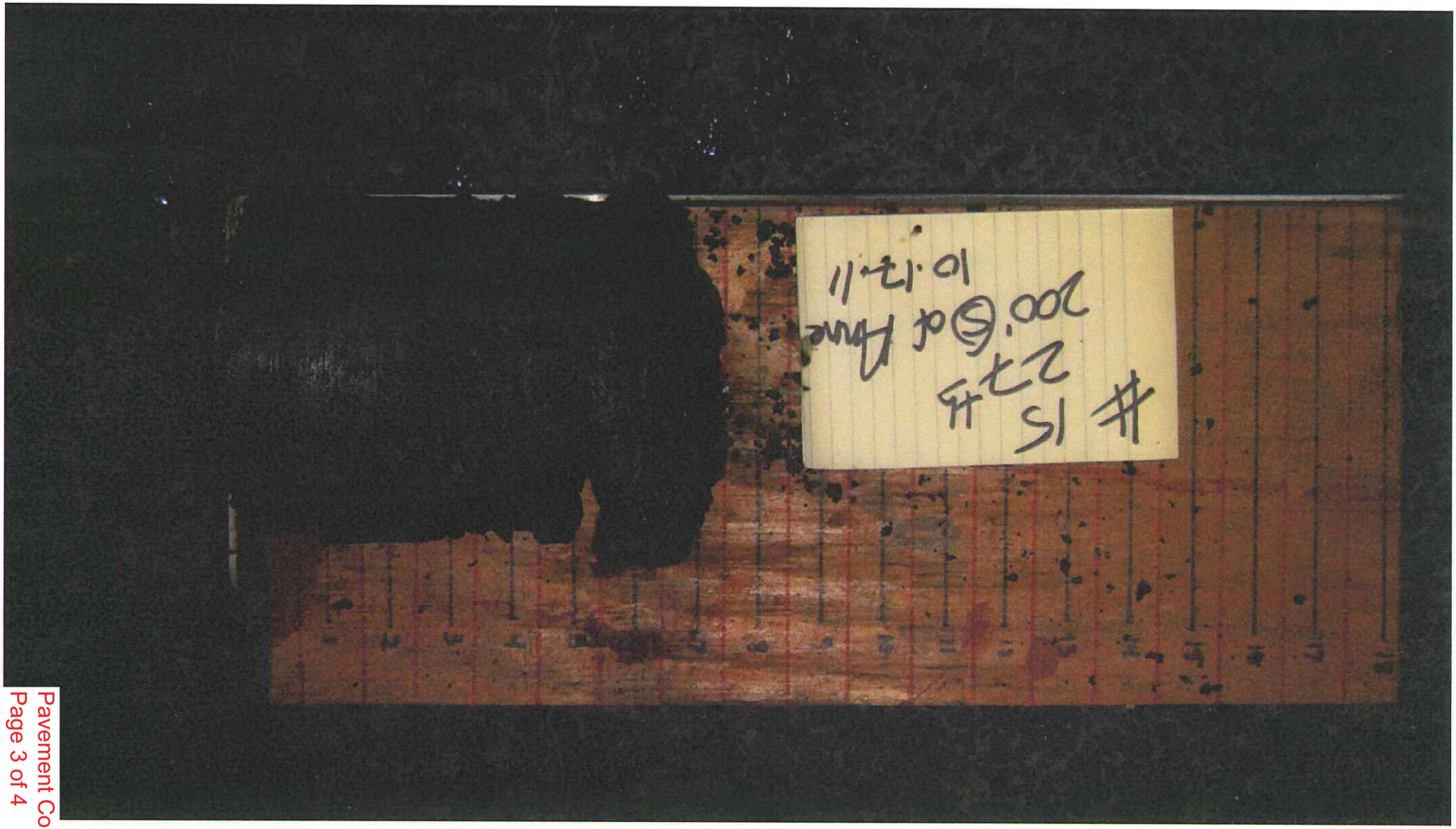


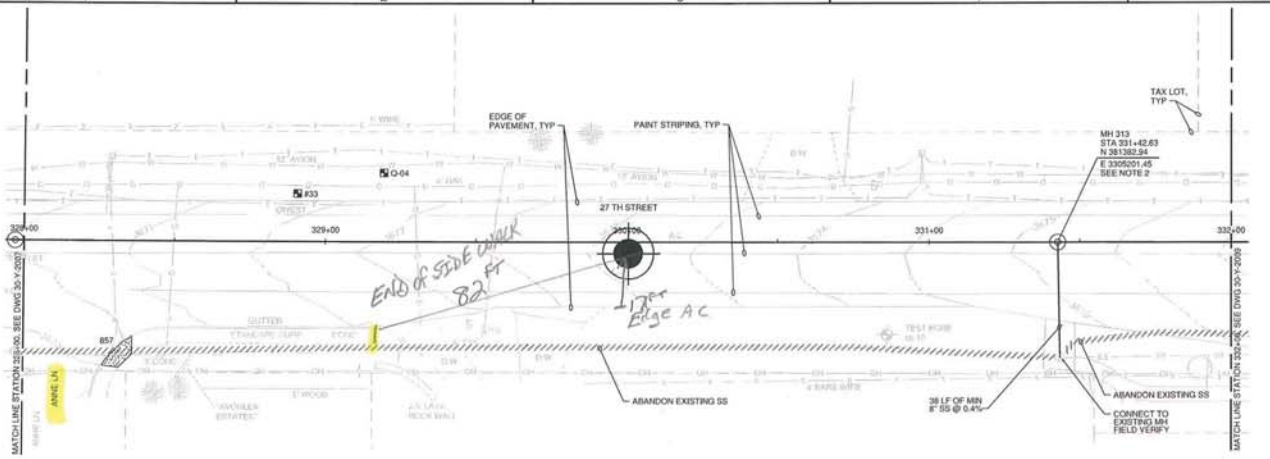
NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION



27th st Core Locations

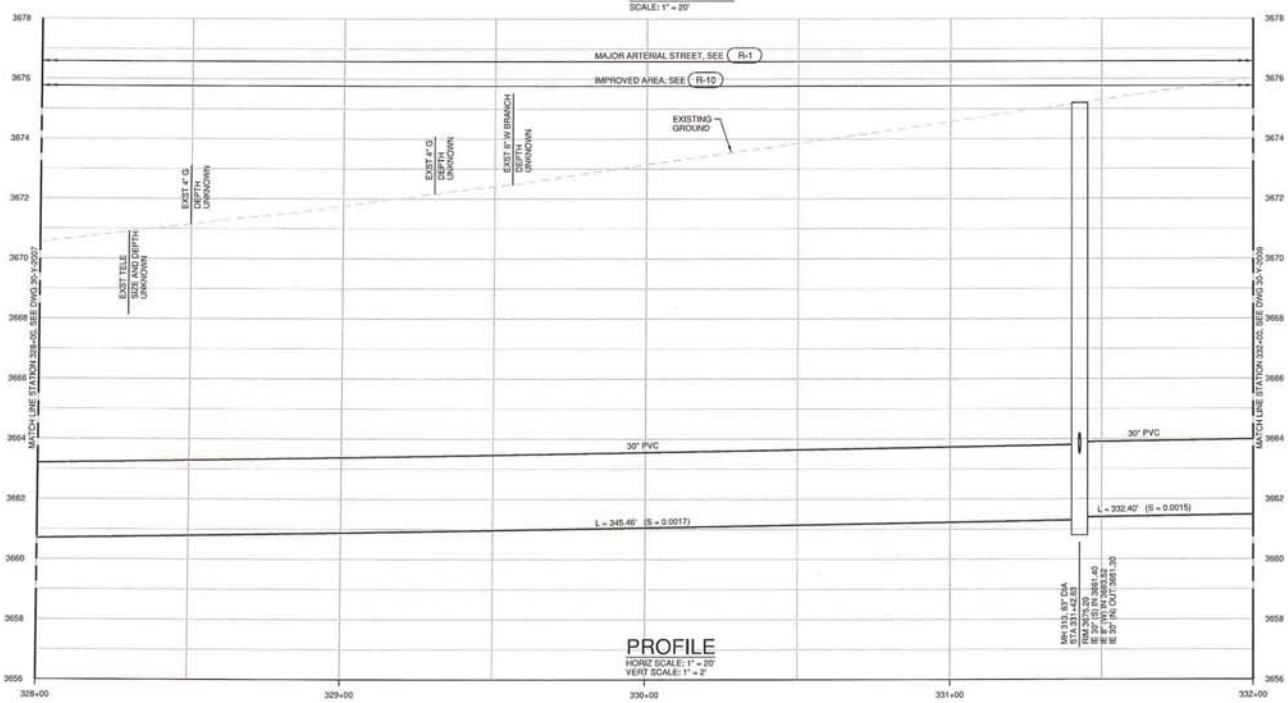
CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497


11.5.0
0.002
15 #



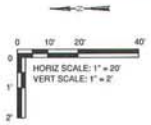
SITE PLAN

SCALE: 1" = 20'



PROFILE

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 2'



GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE (3305-714) TYP., FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. DO NOT FABRICATE OR ORDER MANHOLE OR CONSTRUCT TRENCH UNTIL THE INVERT OF THE EXISTING SANITARY SEWER IS VERIFIED.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 328+00 TO 332+00
DESCHUTES COUNTY, OREGON

REVISIONS:
1.
2.
3.

CH2MHILL
1000 NE CIRCLE BLVD,
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: J KOCH
CHECKED BY: J McWADE
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 30-Y-2008 SW0707
DATE: MAY 2011

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 30-Y-2008
SHEET: SHT NO
COB # SW0707

PLOT DATE:

EXHIBIT B

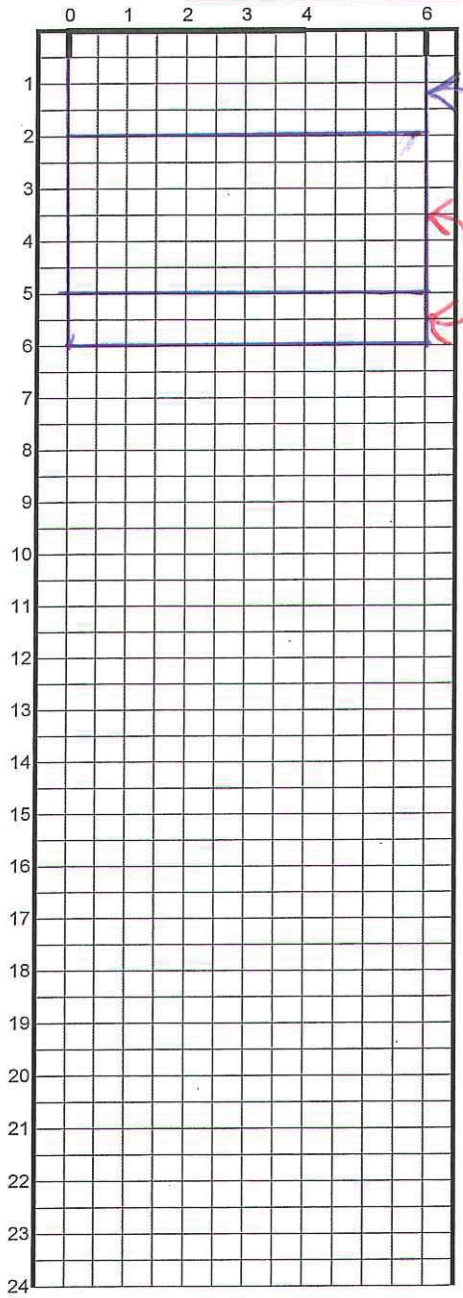
PAVEMENT CORE LOG 16

PAVEMENT CORE LOG

PROJECT: SOUTHEAST INTERCEPTOR
HIGHWAY: 27TH STREET
LOCATION: #16 CORE ON 27TH STREET 150' NORTH OF DARNELL AVENUE
CORE LENGTH: 6 INCHES

Saved: Yes No
PD #: SW0707
Date: 10-24-2011
Logged By: CITY OF BEND
Designer: CH2MHILL

Key No.: #16



DRILLED THROUGH PATCH: NO YES

DRILLED ON CRACK: NO YES (Trans. Long. Fat. Other):

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

TYPE: Dense AC Open AC PCC CTB Oil Mat Other
CONDITION: Good Fair Poor

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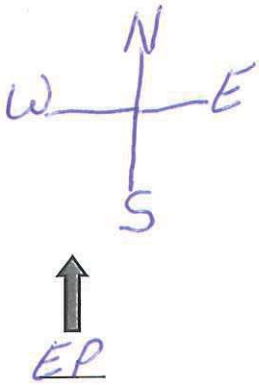
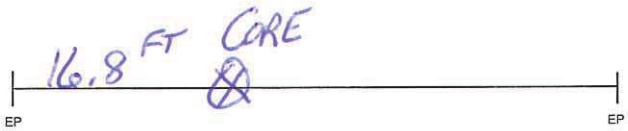
CONDITION: Good Fair Poor

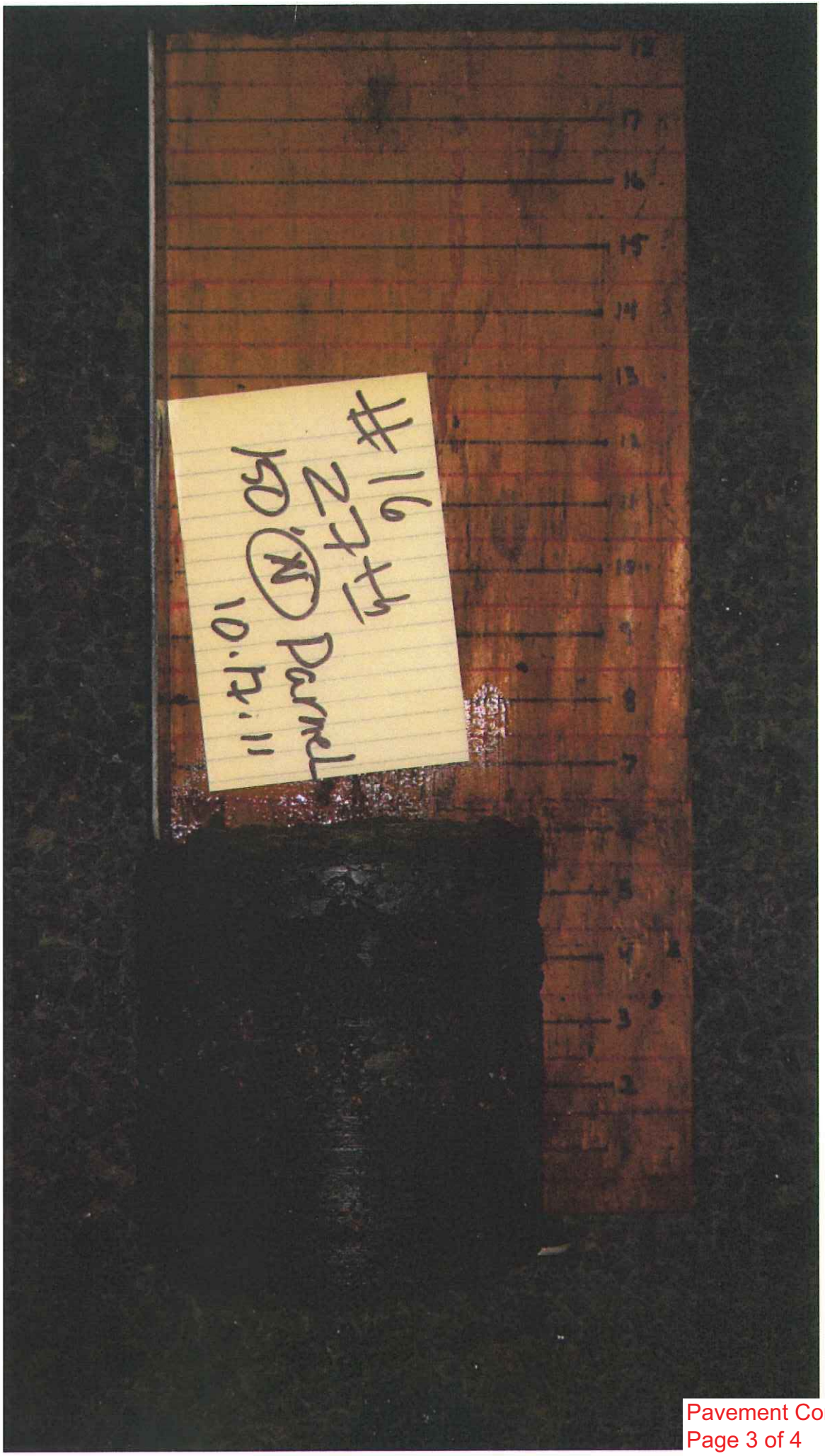


NOTE DISTANCE FROM EDGE OF PAVEMENT AND DIRECTION



27th st Core Locations

CORE SITE	APROX. LOC	MORE SPECIFIC LOC	CORE DEPTH	SUBGRADE DEPTH	ROCK TYPE	PHOTO	LOC ID#
1	BUTLER MKT	WESTBND TURN LANE	5.5"	4"	3/4" MINUS	x	11185574
2	150' S. OF ALDRICH	CENTER LANE	8"	5.5"	1"MINUS	x	11185586
3	150' S. OF WELLS ACRES	CENTER LANE	5.5"	6"	3/4" MINUS	x	11185603
4	200' S. OF MVHS PED ISLAND	CENTER LANE	4.5"	5.5"	3/4" MINUS	x	11185610
5	200' N. OF ROSEMARY	CENTER LANE	5.5"	7"	3/4" MINUS	x	11185616
6	250' S. OF COURTNEY	CENTER LANE	5"	10"	1"MINUS	x	11185621
7	300' N. OF WHICHITA	CENTER LANE	6"	4.5"	3/4" MINUS	x	11185625
8	100' S. OF NEFF	WESTBND TURN LANE	4"	8"	3/4" MINUS	x	11185623
9	150' S OF MEDICAL CENTER	WESTBND TURN LANE	5.5"	11"	3/4" MINUS	x	11185627
10	200' S. 0F MARY ROSE	S.BOUND CENTER LANE	5.5"	11.5"	3/4" MINUS	x	11185629
11	BETWEEN FORUM AND GRAND	N.BOUND CENTER LANE	3.75"	12"	3/4" MINUS	x	11185636
12	150' S. OF HWY 20	WESTBND TURN LANE	8"	8.5"	CINDER	x	11185637
13	200' N. OF BEAR CREEK	N.BOUND CENTER LANE	5"	9"	3/4" MINUS	x	11185640
14	500' S OF B.C.@ CHURCH	CENTER OF ROAD	6"	6"	CINDER	x	11185645
15	200' S.OF ANNE	CENTER OF ROAD	6.5"	7.5"	CINDER	x	11185650
16	150' N.OF DARNEL	CENTER OF ROAD	6"	1"	CINDER/DIRT	x	11185655
17	100' N.OF STARLIGHT	CENTER OF ROAD	6.5"	2"	CINDER	x	11185662
18	300' S.OF CAPELLA	CENTER OF ROAD	6.5"	2"	CINDER	x	11185665
19	BUT.MKT @ SANDALWOOD	W.SIDE OF INTERSECT.	4"	18+	3/4" MINUS	x	11186494
20	DESC.MKT @150'N OF BUTLER	CENTER OF ROAD	6.5"	4"	3/4" MINUS	x	11186497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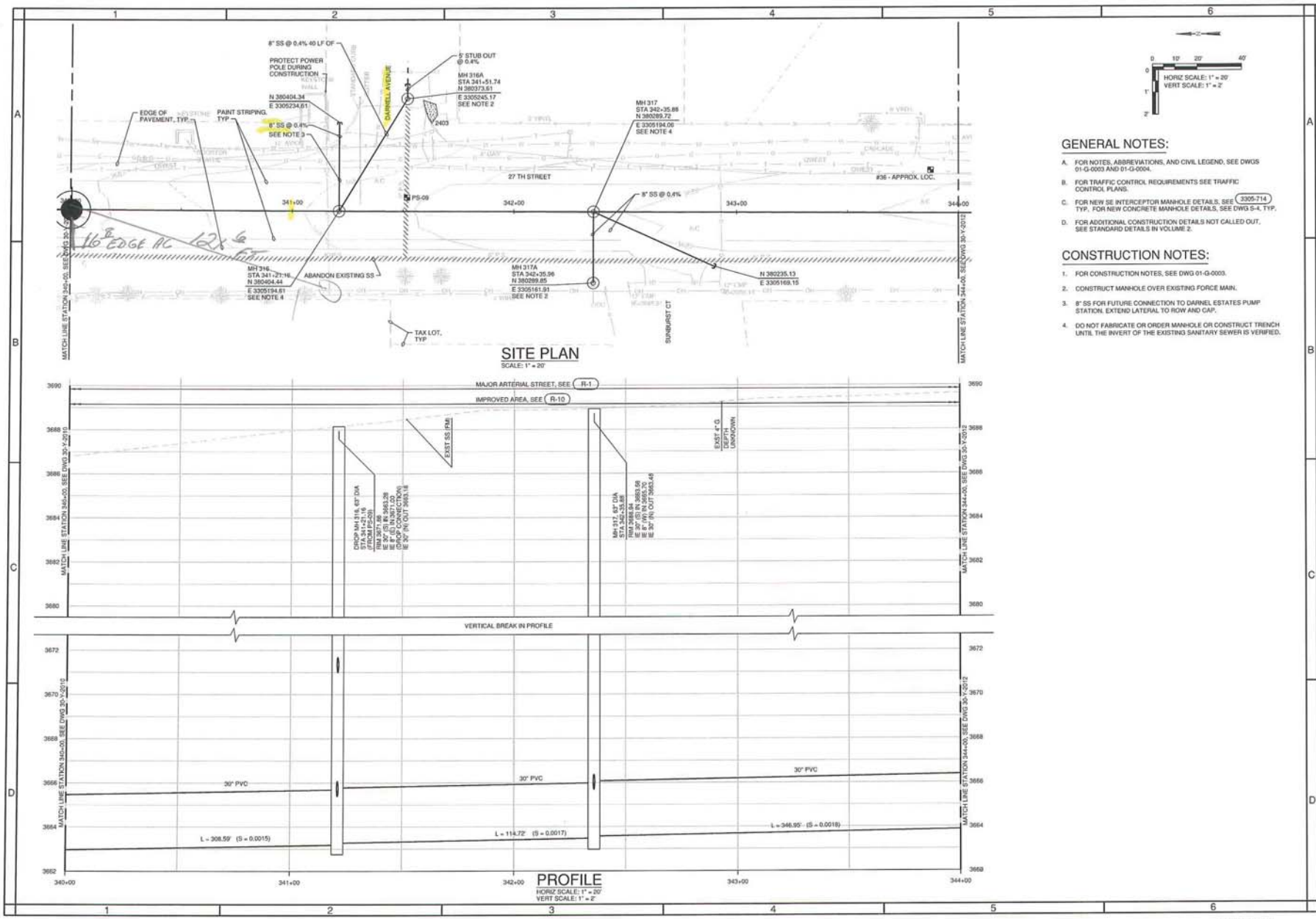


GENERAL NOTES:

A. FOR NOTES, ABBREVIATIONS, AND CIVIL LEGEND, SEE DWGS 01-G-0003 AND 01-G-0004.

B. FOR TRAFFIC CONTROL REQUIREMENTS SEE TRAFFIC CONTROL PLANS.

C. FOR NEW SE INTERCEPTOR MANHOLE DETAILS, SEE 3305-714 TYP. FOR NEW CONCRETE MANHOLE DETAILS, SEE DWG S-4, TYP.

D. FOR ADDITIONAL CONSTRUCTION DETAILS NOT CALLED OUT, SEE STANDARD DETAILS IN VOLUME 2.

CONSTRUCTION NOTES:

1. FOR CONSTRUCTION NOTES, SEE DWG 01-G-0003.
2. CONSTRUCT MANHOLE OVER EXISTING FORCE MAIN.
3. 8" SS FOR FUTURE CONNECTION TO DARNEL ESTATES PUMP STATION. EXTEND LATERAL TO ROW AND CAP.
4. DO NOT FABRICATE OR ORDER MANHOLE OR CONSTRUCT TRENCH UNTIL THE INVERT OF THE EXISTING SANITARY SEWER IS VERIFIED.

BEND SE INTERCEPTOR
SITE PLAN AND PROFILE
STATION 340+00 TO 344+00
DESCHUTES COUNTY, OREGON

REVISIONS:

CH2MHILL
1000 NE CIRCLE BLVD.
BLDG 10, SUITE 10350
CORVALLIS, OR 97330

DESIGNED BY: J KOCH
CHECKED BY: J McVANE
APPROVED BY: B FULLER
SCALE: AS SHOWN
FILE: 30-Y-2011 - SW0707
DATE: MAY 2011

VERIFY SCALES
0 — 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

DWG: 30-Y-2011
SHEET: SHT NO
COB # SW0707

PLOT DATE:

EXHIBIT C

BURLINGTON NORTHERN SANTA FE RAILWAY PERMIT

BNSF RAILROAD CROSSING PERMIT #10-41837

JONES LANG LASALLE

Jones Lang LaSalle Americas, Inc.
3017 Lou Menk Drive, Suite 100
Fort Worth, Texas 76131-2800
tel +1 817-230-2600, fax +1 817 306-8265

April 15, 2011

Tracking #10-41837

Mr. Jim Wodrich
City of Bend Public Works
575 NE 15th Street
Bend, OR 97701

Dear Mr. Wodrich:

Enclosed please find one (1) fully executed Agreement for your file. **A copy of the executed Agreement must be available upon request at the job site allowing authorization to do the work.** Please contact Mr. Scott Schon, Roadmaster, at telephone (541) 385-7539 five (5) days in advance of entry and **BEFORE YOU DIG, CALL 1-800-533-2891**. If you need additional information please contact me at (817) 230-2631.

Sincerely,

Tanita Thomas
Associate Contract Specialist

Enclosure

cc: Scott Schon, BNSF 240 SE Railroad St Bend, OR 97702

PIPELINE LICENSE

THIS LICENSE ("License"), made as of the 15th day of April, 2011 ("Effective Date") by and between **BNSF RAILWAY COMPANY**, a Delaware corporation ("Licensor") and **CITY OF BEND PUBLIC WORKS**, an Oregon corporation ("Licensee").

NOW THEREFORE, in consideration of the mutual covenants contained herein, the parties agree to the following:

GENERAL

1. Licensor hereby grants Licensee a non-exclusive license, subject to all rights, interests, and estates of third parties, including, without limitation, any leases, use rights, easements, liens, or other encumbrances, and upon the terms and conditions set forth below, to construct and maintain, in strict accordance with the drawings and specifications approved by Licensor as part of Licensee's application process (the "Drawings and Specifications"), One (1) Pipeline(s), 23.425 inches in diameter inside a 34.5 inch STEEL casing ("PIPELINE"), across or along the rail corridor of Licensor at or near the station of Bend, County of Deschutes, State of OR, Line Segment 0054, Mile Post 2.20, as shown on the attached Drawing No. 1-50611, dated December 9, 2010, Revised: February 25, 2011 attached hereto as Exhibit "A" and made a part hereof ("Premises").

2. Licensee shall not disturb any improvements of Licensor or Licensor's existing lessees, Licensees, easement beneficiaries or lien holders, if any, or interfere with the use of such improvements.

3. Licensee shall use the Premises solely for construction and maintenance of a PIPELINE in accordance with the Drawings and Specifications carrying **RAW SEWAGE**. Licensee shall not use the PIPELINE to carry any other commodity or use the Premises for any other purpose.

   Licensee covenants that it will not handle or transport "hazardous waste" or "hazardous substances", as "hazardous waste" and "hazardous substances" may now or in the future be defined by any federal, state, or local governmental agency or body through the PIPELINE on Licensor's property. Licensee agrees periodically to furnish Licensor with proof, satisfactory to Licensor that Licensee is in such compliance. Should Licensee not comply fully with the above-stated obligations of this Section, notwithstanding anything contained in any other provision hereof, Licensor may, at its option, terminate this License by serving five (5) days' notice of termination upon Licensee. Upon termination, Licensee shall remove the PIPELINE and restore Licensor's property as herein elsewhere provided.

4. In case of the eviction of Licensee by anyone owning or claiming title to or any interest in the Premises, or by the abandonment by Licensor of the affected rail corridor, Licensor shall not be liable to refund Licensee any compensation paid hereunder, except for the pro-rata part of any recurring charge paid in advance, or for any damage Licensee sustains in connection therewith.

5. Any contractors or subcontractors performing work on the PIPELINE or entering the Premises on behalf of Licensee shall be deemed servants and agents of Licensee for purposes of this License.

TERM

6. This License shall commence on the Effective Date and shall continue for a period of fifty (50) years, subject to prior termination and renewal as hereinafter described. Licensor may extend the term of this License upon the expiration of the initial fifty (50) year period for an additional period of twenty-five (25) years (subject to prior termination as described herein) provided: (i) Licensee is not in default hereunder, (ii) Licensee delivers to Licensor written request of its desire to extend the term hereof as provided herein at lease ninety (90) days, but no more than one hundred eight (180) days, prior to the expiration of the initial fifty (50) year period, and (iii) Licensor approves in writing Licensee's request, such approval not to be unreasonably withheld.

COMPENSATION

7. (a) Licensee shall pay Licensor, prior to the Effective Date, the sum of Six Thousand One Hundred Eighteen and No/100 Dollars ($6118) as compensation for the use of the Premises.

(b) Licensee agrees to reimburse Licensor (within thirty (30) days after receipt of bills therefor) for all costs and expenses incurred by Licensor in connection with Licensee's use of the Premises or the presence, construction and maintenance of the PIPELINE, including but not limited to the furnishing of Licensor's Flagman and any vehicle rental costs incurred. The cost of flagger services provided by the Railway, when deemed necessary by the Railway's representative, will be borne by the Licensee. The estimated cost for one (1) flagger is $800.00 for an eight (8) hour basic day with time and one-half or double time for overtime, rest days and holidays. The estimated cost for each flagger includes vacation allowance, paid holidays, Railway and unemployment insurance, public liability and property damage insurance, health and welfare benefits, transportation, meals, lodging and supervision. Negotiations for Railway labor or collective bargaining agreements and rate changes authorized by appropriate Federal authorities may increase actual or estimated flagging rates. The flagging rate in effect at the time of performance by the Contractor hereunder will be used to calculate the actual costs of flagging pursuant to this paragraph.

(c) All invoices are due thirty (30) days after the date of invoice. In the event that Licensee shall fail to pay any monies due to Licensor within thirty (30) days after the invoice date, then Licensee shall pay interest on such unpaid sum from thirty (30) days after its invoice date to the date of payment by Licensee at an annual rate equal to (i) the greater of (a) for the period January 1 through June 30, the prime rate last published in *The Wall Street Journal* in the preceding December plus two and one-half percent (2 1/2%), and for the period July 1 through December 31, the prime rate last published in *The Wall Street Journal* in the preceding June plus two and one-half percent (2 1/2%), or (b) twelve percent (12%), or (ii) the maximum rate permitted by law, whichever is less.

COMPLIANCE WITH LAWS

8. (a) Licensee shall observe and comply with any and all laws, statutes, regulations, ordinances, orders, covenants, restrictions, or decisions of any court of competent jurisdiction ("Legal Requirements") relating to the construction, maintenance, and use of the PIPELINE and the use of the Premises.

(b) Prior to entering the Premises, Licensee shall and shall cause its contractor to comply with all Licensor's applicable safety rules and regulations. Prior to commencing any work on the Premises, Licensee shall complete and shall require its contractor to complete the safety-training program at the following Internet Website "http://www.contractororientation.com". This training must be completed no more than one year in advance of Licensee's entry on the Premises.

DEFINITION OF COST AND EXPENSE

9. For the purpose of this License, "cost' or "costs" "expense" or "expenses" includes, but is not limited to, actual labor and material costs including all assignable additives, and material and supply costs at current value where used.

RIGHT OF LICENSOR TO USE

10. Licensor excepts and reserves the right, to be exercised by Licensor and any other parties who may obtain written permission or authority from Licensor:

(a) to maintain, renew, use, operate, change, modify and relocate any existing pipe, power, communication lines and appurtenances and other facilities or structures of like character upon, over, under or across the Premises;

(b) to construct, maintain, renew, use, operate, change, modify and relocate any tracks or additional facilities or structures upon, over, under or across the Premises; or

(c) to use the Premises in any manner as the Licensor in its sole discretion deems appropriate, provided Licensor uses all commercially reasonable efforts to avoid material interference with the use of the Premises by Licensee for the purpose specified in Section 3 above.

LICENSEE'S OPERATIONS

11. (a) Licensee shall notify Licensor's Roadmaster at 240 SE Railroad St Bend, OR 97702, telephone (541) 385-7539, at least ten (10) business days prior to installation of the PIPELINE and prior to entering the Premises for any subsequent maintenance thereon.

(b) In performing the work described in Section 3, Licensee shall use only public roadways to cross from one side of Licensor's tracks to the other.

12. (a) Under no conditions shall Licensee be permitted to conduct any tests, investigations or any other activity using mechanized equipment and/or

machinery, or place or store any mechanized equipment, tools or other materials, within twenty-five (25) feet of the centerline of any railroad track on the Premises unless Licensee has obtained prior written approval from Licensor. Licensee shall, at its sole cost and expense, perform all activities on and about the Premises in such a manner as not at any time to be a source of danger to or interference with the existence or use of present or future tracks, roadbed or property of Licensor, or the safe operation and activities of Licensor. If ordered to cease using the Premises at any time by Licensor's personnel due to any hazardous condition, Licensee shall immediately do so. Notwithstanding the foregoing right of Licensor, the parties agree that Licensor has no duty or obligation to monitor Licensee's use of the Premises to determine the safe nature thereof, it being solely Licensee's responsibility to ensure that Licensee's use of the Premises is safe. Neither the exercise nor the failure by Licensor to exercise any rights granted in this Section will alter the liability allocation provided by this License.

(b) Licensee shall, at its sole cost and expense, construct and maintain the PIPELINE in such a manner and of such material that it will not at any time be a source of danger to or interference with the existence or use of present or future tracks, roadbed or property of Licensor, or the safe operation and activities of Licensor. Licensor may direct one of its field engineers to observe or inspect the construction and/or maintenance of the PIPELINE at any time for compliance with the Drawings and Specifications. If ordered at any time to halt construction or maintenance of the PIPELINE by Licensor's personnel due to non-compliance with the same or any other hazardous condition, Licensee shall immediately do so. Notwithstanding the foregoing right of Licensor, the parties agree that Licensor has no duty or obligation to observe or inspect, or to halt work on, the PIPELINE, it being solely Licensee's responsibility to ensure that the PIPELINE is constructed in strict accordance with the Drawings and Specifications and in a safe and workmanlike manner in compliance with all terms hereof. Neither the exercise nor the failure by Licensor to exercise any right granted by this Section will alter in any way the liability allocation provided by this License. If at any time Licensee shall, in the sole judgment of Licensor, fail to properly perform its obligations under this Section, Licensor may, at its option and at Licensee's sole expense, arrange for the performance of such work as it deems necessary for the safety of its operations and activities. Licensee shall promptly reimburse Licensor for all costs and expenses of such work, upon receipt of an invoice for the same. Licensor's failure to perform any obligations of Licensee shall not alter the liability allocation hereunder.

13. During the construction and any subsequent maintenance performed on the PIPELINE, Licensee shall perform such work in a manner to preclude damage to the property of Licensor, and preclude interference with the operation of its railroad. The construction of the PIPELINE shall be completed within one (1) year of the Effective Date. Upon completion of the construction of the PIPELINE and after performing any subsequent maintenance thereon, Licensee shall, at Licensee's own cost and expense, restore Licensor's Premises to their former state as of the Effective Date of this License.

14. If at any time during the term of this License, Licensor shall desire the use of its rail corridor in such a manner as would, in Licensor's reasonable opinion, be interfered with by the PIPELINE, Licensee shall, at its sole expense, within thirty (30) days after

receiving written notice from Licensor to such effect, make such changes in the PIPELINE as in the sole discretion of Licensor may be necessary to avoid interference with the proposed use of Licensor's rail corridor, including, without limitation, the relocation of the existing or the construction of a new PIPELINE(s).

15. (a) Prior to Licensee conducting any boring work on or about any portion of the Premises, Licensee shall explore the proposed location for such work with hand tools to a depth of at least three (3) feet below the surface of the ground to determine whether pipelines or other structures exist below the surface, provided, however, that in lieu of the foregoing, the Licensee shall have the right to use suitable detection equipment or other generally accepted industry practice (e.g., consulting with the Underground Services Association) to determine the existence or location of pipelines and other subsurface structures prior to drilling or excavating with mechanized equipment. Upon Licensee's written request, which shall be made thirty (30) business days in advance of Licensee's requested construction of the PIPELINE, Licensor will provide Licensee any information that Licensor has in the possession of its Engineering Department concerning the existence and approximate location of Licensor's underground utilities and pipelines at or near the vicinity of the proposed PIPELINE. Prior to conducting any such boring work, the Licensee will review all such material. Licensor does not warrant the accuracy or completeness of information relating to subsurface conditions and Licensee's operations will be subject at all times to the liability provisions herein.

(b) For all bores greater than 26-inch diameter and at a depth less than 10.0 feet below bottom of rail, a soil investigation will need to be performed by the Licensee and reviewed by Licensor prior to construction. This study is to determine if granular material is present, and to prevent subsidence during the installation process. If the investigation determines in Licensor's reasonable opinion that granular material is present, Licensor may select a new location for Licensee's use, or may require Licensee to furnish for Licensor's review and approval, in its sole discretion a remedial plan to deal with the granular material. Once Licensor has approved any such remedial plan in writing, Licensee shall, at its sole cost and expense, carry out the approved plan in accordance with all terms thereof and hereof.

16. Any open hole, boring or well constructed on the Premises by Licensee shall be safely covered and secured at all times when Licensee is not working in the actual vicinity thereof. Following completion of that portion of the work, all holes or borings constructed on the Premises by Licensee shall be:

(a) filled in to surrounding ground level with compacted bentonite grout; or

(b) otherwise secured or retired in accordance with any applicable Legal Requirement. No excavated materials may remain on Licensor's property for more than ten (10) days, but must be properly disposed of by Licensee in accordance with applicable Legal Requirements.

17. Upon termination of this License, Licensee shall, at its sole cost and expense:

(a) remove the PIPELINE and all appurtenances thereto, or, at the sole discretion of the Licensor, fill and cap or otherwise appropriately decommission the PIPELINE with a method satisfactory to Licensor;

(b) report and restore any damage to the Premises arising from, growing out of, or connected with Licensee's use of the Premises;

(c) remedy any unsafe conditions on the Premises created or aggravated by Licensee; and

(d) leave the Premises in the condition which existed as of the Effective Date of this License.

18. Licensee's on-site supervisions shall retain/maintain a fully executed copy of this License at all times while on the Premises.

LIABILITY

19. (a) TO THE FULLEST EXTENT PERMITTED BY LAW, LICENSEE SHALL, AND SHALL CAUSE ITS CONTRACTOR TO, RELEASE, INDEMNIFY, DEFEND AND HOLD HARMLESS LICENSOR AND LICENSOR'S AFFILIATED COMPANIES, PARTNERS, SUCCESSORS, ASSIGNS, LEGAL REPRESENTATIVES, OFFICERS, DIRECTORS, SHAREHOLDERS, EMPLOYEES AND AGENTS (COLLECTIVELY, "INDEMNITEES") FOR, FROM AND AGAINST ANY AND ALL CLAIMS, LIABILITIES, FINES, PENALTIES, COSTS, DAMAGES, LOSSES, LIENS, CAUSES OF ACTION, SUITS, DEMANDS, JUDGMENTS AND EXPENSES (INCLUDING, WITHOUT LIMITATION, COURT COSTS, ATTORNEYS' FEES AND COSTS OF INVESTIGATION, REMOVAL AND REMEDIATION AND GOVERNMENTAL OVERSIGHT COSTS) ENVIRONMENTAL OR OTHERWISE (COLLECTIVELY "LIABILITIES") OF ANY NATURE, KIND OR DESCRIPTION OF ANY PERSON OR ENTITY DIRECTLY OR INDIRECTLY ARISING OUT OF, RESULTING FROM OR RELATED TO (IN WHOLE OR IN PART):

(i) THIS LICENSE, INCLUDING, WITHOUT LIMITATION, ITS ENVIRONMENTAL PROVISIONS,

(ii) ANY RIGHTS OR INTERESTS GRANTED PURSUANT TO THIS LICENSE,

(iii) LICENSEE'S OCCUPATION AND USE OF THE PREMISES,

(iv) THE ENVIRONMENTAL CONDITION AND STATUS OF THE PREMISES CAUSED BY OR CONTRIBUTED BY LICENSEE, OR

(v) ANY ACT OR OMISSION OF LICENSEE OR LICENSEE'S OFFICERS, AGENTS, INVITEES, EMPLOYEES, OR CONTRACTORS, OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM, OR ANYONE THEY CONTROL OR EXERCISE CONTROL OVER,

EVEN IF SUCH LIABILITIES ARISE FROM OR ARE ATTRIBUTED TO, IN WHOLE OR IN PART, ANY NEGLIGENCE OF ANY INDEMNITEE. THE ONLY LIABILITIES WITH RESPECT TO WHICH LICENSEE'S OBLIGATION TO INDEMNIFY THE INDEMNITEES DOES NOT APPLY ARE LIABILITIES TO THE EXTENT PROXIMATELY CAUSED BY THE GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF AN INDEMNITEE.

(b) **FURTHER, TO THE FULLEST EXTENT PERMITTED BY LAW, NOTWITHSTANDING THE LIMITATION IN SECTION 19(a), LICENSEE SHALL, AND SHALL CAUSE ITS CONTRACTOR TO, NOW AND FOREVER WAIVE ANY AND ALL CLAIMS, REGARDLESS WHETHER BASED ON THE STRICT LIABILITY, NEGLIGENCE OR OTHERWISE, THAT RAILROAD IS AN "OWNER", "OPERATOR", "ARRANGER", OR "TRANSPORTER" WITH RESPECT TO THE PIPELINE FOR THE PURPOSES OF CERCLA OR OTHER ENVIRONMENTAL LAWS. LICENSEE WILL INDEMNIFY, DEFEND AND HOLD THE INDEMNITEES HARMLESS FROM ANY AND ALL SUCH CLAIMS REGARDLESS OF THE NEGLIGENCE OF THE INDEMNITEES. LICENSEE FURTHER AGREES THAT THE USE OF THE PREMISES AS CONTEMPLATED BY THIS LICENSE SHALL NOT IN ANY WAY SUBJECT LICENSOR TO CLAIMS THAT LICENSOR IS OTHER THAN A COMMON CARRIER FOR PURPOSES OF ENVIRONMENTAL LAWS AND EXPRESSLY AGREES TO INDEMNIFY, DEFEND, AND HOLD THE INDEMNITEES HARMLESS FOR ANY AND ALL SUCH CLAIMS. IN NO EVENT SHALL LICENSOR BE RESPONSIBLE FOR THE ENVIRONMENTAL CONDITION OF THE PREMISES.**

(c) **TO THE FULLEST EXTENT PERMITTED BY LAW, LICENSEE FURTHER AGREES, AND SHALL CAUSE ITS CONTRACTOR TO AGREE, REGARDLESS OF ANY NEGLIGENCE OR ALLEGED NEGLIGENCE OF ANY INDEMNITEE, TO INDEMNIFY, AND HOLD HARMLESS THE INDEMNITEES AGAINST AND ASSUME THE DEFENSE OF ANY LIABILITIES ASSERTED AGAINST OR SUFFERED BY ANY INDEMNITEE UNDER OR RELATED TO THE FEDERAL EMPLOYERS' LIABILITY ACT ("FELA") WHENEVER EMPLOYEES OF LICENSEE OR ANY OF ITS AGENTS, INVITEES, OR CONTRACTORS CLAIM OR ALLEGE THAT THEY ARE EMPLOYEES OF ANY INDEMNITEE OR OTHERWISE. THIS INDEMNITY SHALL ALSO EXTEND, ON THE SAME BASIS, TO FELA CLAIMS BASED ON ACTUAL OR ALLEGED VIOLATIONS OF ANY FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS, INCLUDING BUT NOT LIMITED TO THE SAFETY APPLIANCE ACT, THE BOILER INSPECTION ACT, THE OCCUPATIONAL HEALTH AND SAFETY ACT, THE RESOURCE CONSERVATION AND RECOVERY ACT, AND ANY SIMILAR STATE OR FEDERAL STATUTE.**

(d) Upon written notice from Licensor, Licensee agrees to assume the defense of any lawsuit or other proceeding brought against any Indemnitee by any entity, relating to any matter covered by this License for which Licensee has an obligation to assume liability for and/or save and hold harmless any Indemnitee. Licensee shall pay all costs incident to such defense, including, but not limited to, attorneys' fees, investigators' fees, litigation and appeal expenses, settlement payments, and amounts paid in satisfaction of judgments.

PERSONAL PROPERTY WAIVER

20. **ALL PERSONAL PROPERTY, INCLUDING, BUT NOT LIMITED TO, FIXTURES, EQUIPMENT, OR RELATED MATERIALS UPON THE PREMISES WILL BE AT THE RISK OF LICENSEE ONLY, AND NO INDEMNITEE WILL BE LIABLE FOR ANY DAMAGE THERETO OR THEFT THEREOF, WHETHER OR NOT DUE IN WHOLE OR IN PART TO THE NEGLIGENCE OF ANY INDEMNITEE.**

INSURANCE

21. Licensee shall, at its sole cost and expense, procure and maintain during the life of this Agreement the following insurance coverage:

A. Commercial General Liability Insurance. This insurance shall contain broad form contractual liability with a combined single limit of a minimum of $5,000,000 each occurrence and an aggregate limit of at least $10,000,000. Coverage must be purchased on a post 1998 ISO occurrence or equivalent and include coverage for, but not limited to, the following:

- Bodily Injury and Property Damage
- Personal Injury and Advertising Injury
- Fire legal liability
- Products and completed operations

This policy shall also contain the following endorsements, which shall be indicated on the certificate of insurance:

- The employee and workers compensation related exclusions in the above policy shall not apply with respect to claims related to railroad employees.
- The definition of insured contract shall be amended to remove any exclusion or other limitation for any work being done within 50 feet of railroad property.
- Any exclusions related to the explosion, collapse and underground hazards shall be removed.

No other endorsements limiting coverage may be included on the policy.

B. Business Automobile Insurance. This insurance shall contain a combined single limit of at least $1,000,000 per occurrence, and include coverage for, but not limited to the following:

- Bodily injury and property damage
- Any and all vehicles owned, used or hired

C. Workers Compensation and Employers Liability Insurance. This insurance shall include coverage for, but not limited to:

- Licensee's statutory liability under the worker's compensation laws of the state(s) in which the work is to be performed. If optional under State law, the insurance must cover all employees anyway.
- Employers' Liability (Part B) with limits of at least $500,000 each accident, $500,000 by disease policy limit, $500,000 by disease each employee.

D. Railroad Protective Liability Insurance. This insurance shall name only the Licensor as the Insured with coverage of at least $5,000,000 per occurrence and $10,000,000 in the aggregate. The coverage obtained under this policy shall only be effective during the initial installation and/or construction of the

PIPELINE. **THE CONSTRUCTION OF THE PIPELINE SHALL BE COMPLETED WITHIN ONE (1) YEAR OF THE EFFECTIVE DATE.** If further maintenance of the PIPELINE is needed at a later date, an additional Railroad Protective Liability Insurance Policy shall be required. The policy shall be issued on a standard ISO form CG 00 35 10 93 and include the following:

- Endorsed to include the Pollution Exclusion Amendment (ISO form CG 28 31 10 93)
- Endorsed to include the Limited Seepage and Pollution Endorsement.
- Endorsed to include Evacuation Expense Coverage Endorsement.
- No other endorsements restricting coverage may be added.
- The original policy must be provided to the Licensor prior to performing any work or services under this Agreement.

In lieu of providing a Railroad Protective Liability Policy, Licensee may participate in Licensor's Blanket Railroad Protective Liability Insurance Policy available to Licensee or its contractor. The limits of coverage are the same as above. The cost is $1000.

☒ I **elect** to participate in Licensor's Blanket Policy;

☐ I **elect not** to participate in Licensor's Blanket Policy.

Other Requirements:

Where allowable by law, all policies (applying to coverage listed above) shall contain no exclusion for punitive damages and certificates of insurance shall reflect that no exclusion exists.

Licensee agrees to waive its right of recovery against Licensor for all claims and suits against Licensor. In addition, its insurers, through policy endorsement, waive their right of subrogation against Licensor for all claims and suits. The certificate of insurance must reflect waiver of subrogation endorsement. Licensee further waives its right of recovery, and its insurers also waive their right of subrogation against Licensor for loss of its owned or leased property or property under its care, custody, or control.

Licensee's insurance policies through policy endorsement must include wording which states that the policy shall be primary and non-contributing with respect to any insurance carried by Licensor. The certificate of insurance must reflect that the above wording is included in evidenced policies.

All policy(ies) required above (excluding Workers Compensation, Contractor's Pollution Legal Liability and if applicable, Railroad Protective) shall include a severability of interest endorsement and shall name Licensor and Staubach Global Services - RR, Inc. as an additional insured with respect to work performed under this agreement. Severability of interest and naming Licensor and Staubach Global Services - RR, Inc. as additional insureds shall be indicated on the certificate of insurance.

Licensee is not allowed to self-insure without the prior written consent of Licensor. If granted by Licensor, any deductible, self-insured retention or other financial responsibility for claims shall be covered directly by Licensee in lieu of insurance. Any and all Licensor liabilities that would otherwise, in accordance with the provisions of this Agreement, be covered by Licensee's insurance will be covered as if Licensee elected

not to include a deductible, self-insured retention, or other financial responsibility for claims.

Prior to commencing the Work, Licensee shall furnish to Licensor an acceptable certificate(s) of insurance including an original signature of the authorized representative evidencing the required coverage, endorsements, and amendments. The policy(ies) shall contain a provision that obligates the insurance company(ies) issuing such policy(ies) to notify Licensor in writing at least 30 days prior to any cancellation, non-renewal, substitution or material alteration. This cancellation provision shall be indicated on the certificate of insurance. In the event of a claim or lawsuit involving Railroad arising out of this agreement, Licensee will make available any required policy covering such claim or lawsuit.

Any insurance policy shall be written by a reputable insurance company acceptable to Licensor or with a current Best's Guide Rating of A- and Class VII or better, and authorized to do business in the state(s) in which the service is to be provided.

Licensee represents that this License has been thoroughly reviewed by Licensee's insurance agent(s)/broker(s), who have been instructed by Licensee to procure the insurance coverage required by this Agreement. Allocated Loss Expense shall be in addition to all policy limits for coverages referenced above.

Not more frequently than once every five years, Licensor may reasonably modify the required insurance coverage to reflect then-current risk management practices in the railroad industry and underwriting practices in the insurance industry.

If any portion of the operation is to be subcontracted by Licensee, Licensee shall require that the subcontractor shall provide and maintain insurance coverages as set forth herein, naming Licensor as an additional insured, and shall require that the subcontractor shall release, defend and indemnify Licensor to the same extent and under the same terms and conditions as Licensee is required to release, defend and indemnify Licensor herein.

Failure to provide evidence as required by this section shall entitle, but not require, Licensor to terminate this License immediately. Acceptance of a certificate that does not comply with this section shall not operate as a waiver of Licensee's obligations hereunder.

The fact that insurance (including, without limitation, self-insurance) is obtained by Licensee shall not be deemed to release or diminish the liability of Licensee including, without limitation, liability under the indemnity provisions of this License. Damages recoverable by Licensor shall not be limited by the amount of the required insurance coverage.

For purposes of this section, Licensor shall mean "Burlington Northern Santa Fe Corporation", "BNSF Railway Company" and the subsidiaries, successors, assigns and affiliates of each.

ENVIRONMENTAL

22. (a) Licensee shall strictly comply with all federal, state and local environmental laws and regulations in its use of the Premises, including, but not limited to, the Resource Conservation and Recovery Act, as amended (RCRA), the Clean Water Act, the Oil Pollution Act, the Hazardous Materials Transportation Act, CERCLA (collectively referred to as the "Environmental Laws"). Licensee shall not maintain a treatment, storage, transfer or disposal facility, or underground storage tank, as defined by Environmental Laws on the Premises. Licensee shall not release or suffer the release of oil or hazardous substances, as defined by Environmental Laws on or about the Premises.

(b) Licensee shall give Licensor immediate notice to Licensor's Resource Operations Center at (800) 832-5452 of any release of hazardous substances on or from the Premises, violation of Environmental Laws, or inspection or inquiry by governmental authorities charged with enforcing Environmental Laws with respect to Licensee's use of the Premises. Licensee shall use the best efforts to promptly respond to any release on or from the Premises. Licensee also shall give Licensor immediate notice of all measures undertaken on behalf of Licensee to investigate, remediate, respond to or otherwise cure such release or violation.

(c) In the event that Licensor has notice from Licensee or otherwise of a release or violation of Environmental Laws arising in any way with respect to the PIPELINE which occurred or may occur during the term of this License, Licensor may require Licensee, at Licensee's sole risk and expense, to take timely measures to investigate, remediate, respond to or otherwise cure such release or violation affecting the Premises or Licensor's right-of-way.

(d) Licensee shall promptly report to Licensor in writing any conditions or activities upon the Premises known to Licensee which create a risk of harm to persons, property or the environment and shall take whatever action is necessary to prevent injury to persons or property arising out of such conditions or activities; provided, however, that Licensee's reporting to Licensor shall not relieve Licensee of any obligation whatsoever imposed on it by this License. Licensee shall promptly respond to Licensor's request for information regarding said conditions or activities.

ALTERATIONS

23. Licensee may not make any alterations to the Premises or permanently affix anything to the Premises or any buildings or other structures adjacent to the Premises without Licensor's prior written consent.

NO WARRANTIES

24. **LICENSOR'S DUTIES AND WARRANTIES ARE LIMITED TO THOSE EXPRESSLY STATED IN THIS LICENSE AND SHALL NOT INCLUDE ANY IMPLIED DUTIES OR IMPLIED WARRANTIES, NOW OR IN THE FUTURE. NO REPRESENTATIONS OR WARRANTIES HAVE BEEN MADE BY LICENSOR OTHER THAN THOSE CONTAINED IN THIS LICENSE. LICENSEE HEREBY WAIVES ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE PREMISES OR**

WHICH MAY EXIST BY OPERATION OF LAW OR IN EQUITY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, HABITABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

QUIET ENJOYMENT

25. **LICENSOR DOES NOT WARRANT ITS TITLE TO THE PROPERTY NOR UNDERTAKE TO DEFEND LICENSEE IN THE PEACEABLE POSSESSION OR USE THEREOF. NO COVENANT OF QUIET ENJOYMENT IS MADE.**

DEFAULT

26. If default shall be made in any of the covenants or agreements of Licensee contained in this document, or in case of any assignment or transfer of this License by operation of law, Licensor may, at its option, terminate this License by serving five (5) days' notice in writing upon Licensee. Any waiver by Licensor of any default or defaults shall not constitute a waiver of the right to terminate this License for any subsequent default or defaults, nor shall any such waiver in any way affect Licensor's ability to enforce any Section of this License. The remedy set forth in this Section 26 shall be in addition to, and not in limitation of, any other remedies that Licensor may have at law or in equity.

LIENS AND CHARGES

27. Licensee shall promptly pay and discharge any and all liens arising out of any construction, alterations or repairs done, suffered or permitted to be done by Licensee on Premises. Licensor is hereby authorized to post any notices or take any other action upon or with respect to Premises that is or may be permitted by law to prevent the attachment of any such liens to Premises; provided, however, that failure of Licensor to take any such action shall not relieve Licensee of any obligation or liability under this Section 27 or any other Section of this License. Licensee shall pay when due any taxes, assessments or other charges (collectively, "Taxes") levied or assessed upon the Improvements by any governmental or quasi-governmental body or any Taxes levied or assessed against Licensor or the Premises that are attributable to the Improvements.

TERMINATION

28. This License may be terminated by Licensor, at any time, by serving thirty (30) days' written notice of termination upon Licensee. This License may be terminated by Licensee upon execution of Licensor's Mutual Termination Letter Agreement then in effect. Upon expiration of the time specified in such notice, this License and all rights of Licensee shall absolutely cease.

29. If Licensee fails to surrender to Licensor the Premises, upon any termination of this License, all liabilities and obligations of Licensee hereunder shall continue in effect until the Premises are surrendered. Termination shall not release Licensee from any liability or obligation, whether of indemnity or otherwise, resulting from any events happening prior to the date of termination.

ASSIGNMENT

30. Neither Licensee, nor the heirs, legal representatives, successors, or assigns of

Licensee, nor any subsequent assignee, shall assign or transfer this License or any interest herein, without the prior written consent and approval of Licensor, which may be withheld in Licensor's sole discretion.

NOTICES

31. Any notice required or permitted to be given hereunder by one party to the other shall be in writing and the same shall be given and shall be deemed to have been served and given if (i) placed in the United States mail, certified, return receipt requested, or (ii) deposited into the custody of a nationally recognized overnight delivery service, addressed to the party to be notified at the address for such party specified below, or to such other address as the party to be notified may designate by giving the other party no less than thirty (30) days' advance written notice of such change in address.

If to Licensor: Staubach Global Services - RR, Inc.
3017 Lou Menk Drive, Suite 100
Fort Worth, TX 76131-2800
Attn: Licenses/Permits

with a copy to: BNSF Railway Company
2500 Lou Menk Dr. – AOB3
Fort Worth, TX 76131
Attn: Manager – Land Revenue Management

If to Licensee: City of Bend Public Works
575 NE 15th Street
Bend, OR 97701

SURVIVAL

32. Neither termination nor expiration will release either party from any liability or obligation under this License, whether of indemnity or otherwise, resulting from any acts, omissions or events happening prior to the date of termination or expiration, or, if later, the date when the PIPELINE and improvements are removed and the Premises are restored to its condition as of the Effective Date.

RECORDATION

33. It is understood and agreed that this License shall not be placed on public record.

APPLICABLE LAW

34. All questions concerning the interpretation or application of provisions of this License shall be decided according to the substantive laws of the State of Texas without regard to conflicts of law provisions.

SEVERABILITY

35. To the maximum extent possible, each provision of this License shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision of this License shall be prohibited by, or held to be invalid under, applicable law, such provision

shall be ineffective solely to the extent of such prohibition or invalidity, and this shall not invalidate the remainder of such provision or any other provision of this License.

INTEGRATION

36. This License is the full and complete agreement between Licensor and Licensee with respect to all matters relating to Licensee's use of the Premises, and supersedes any and all other agreements between the parties hereto relating to Licensee's use of the Premises as described herein. However, nothing herein is intended to terminate any surviving obligation of Licensee or Licensee's obligation to defend and hold Licensor harmless in any prior written agreement between the parties.

MISCELLANEOUS

37. In the event that Licensee consists of two or more parties, all the covenants and agreements of Licensee herein contained shall be the joint and several covenants and agreements of such parties.

38. The waiver by Licensor of the breach of any provision herein by Licensee shall in no way impair the right of Licensor to enforce that provision for any subsequent breach thereof.

Staubach Global Services – RR, Inc. is acting as representative for BNSF Railway Company.

IN WITNESS WHEREOF, this License has been duly executed, in duplicate, by the parties hereto as of the day and year first above written.

BNSF RAILWAY COMPANY
Staubach Global Services - RR, Inc., its Attorney in Fact
3017 Lou Menk Drive, Suite 100
Fort Worth, TX 76131-2800

By: _____
Ed Darter
Title: Vice President - National Accounts

CITY OF BEND PUBLIC WORKS
575 NE 15th Street
Bend, OR 97701

By: _____
Title: Project Manager/LOB

Paul Rheault
Paul Rheault, Public Works Director

_____

Form 424; Rev. 04/26/05

TRACKING NO. 10-41837

EXHIBIT "A"

ATTACHED TO CONTRACT BETWEEN

BNSF RAILWAY COMPANY

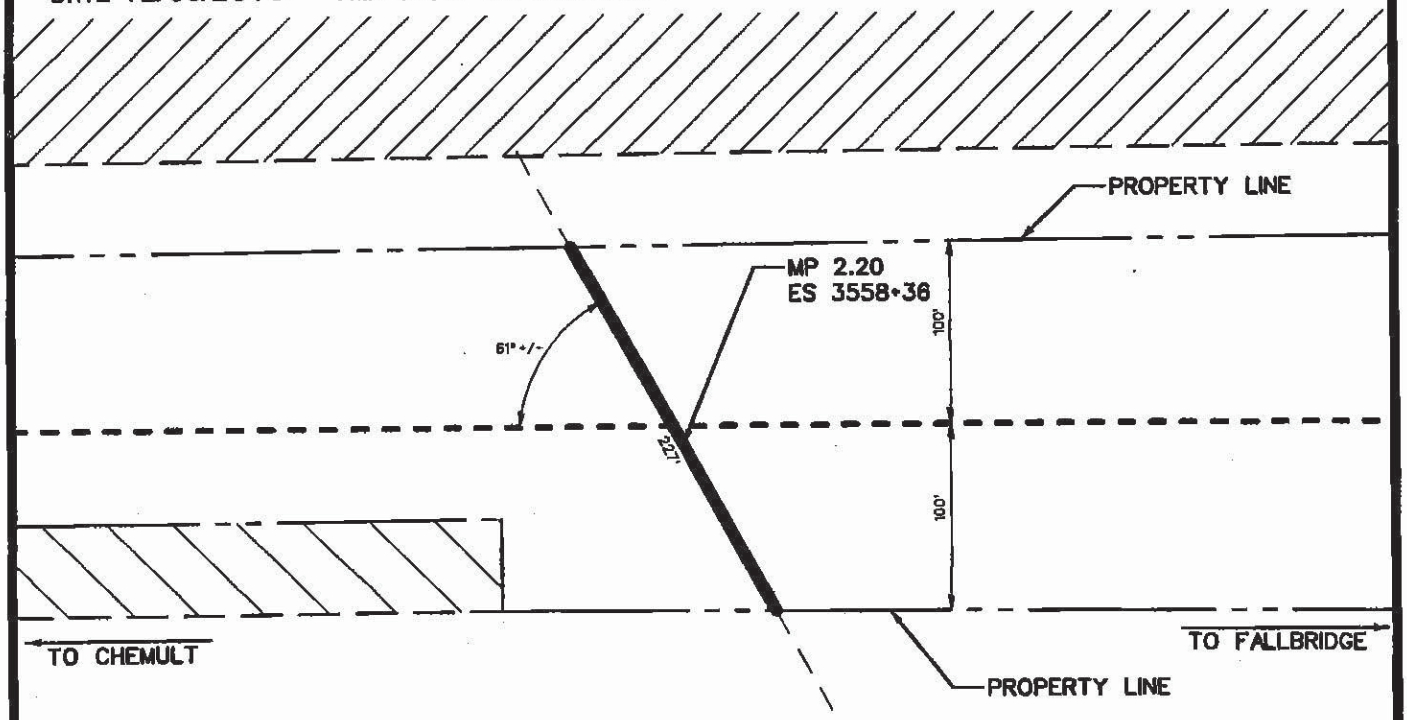
AND

CITY OF BEND PUBLIC WORKS

MAP REF. S51792

SCALE: 1 IN. = 100 FT.
NORTHWEST DIV.
OREGON TRUNK SUBDIV. L.S. 0054
DATE 12/09/2010 REVISED 02/25/2011

SECTION: 16
TOWNSHIP: 18S
RANGE: 12E
MERIDIAN: WILLM



DESCRIPTION OF PIPELINE
PIPELINE SHOWN BOLD

	CARRIER PIPE	CASING PIPE
SIZE:	23.425"	34.5"
CONTENTS:	RAW SEWAGE	
PIPE MATERIAL:	PVC	STEEL
SPECIFICATION/GRADE:	DR21	35,000 PSI
WALL THICKNESS:	1.23"	0.75"
COATING:	-	-

	CARRIER PIPE	CASING PIPE
LENGTH ON R/W:	227'	227'
WORKING PRESSURE:	GRAVITY	
BURY: BASE/RAIL TO TOP OF CASING		25.2'
BURY: NATURAL GROUND		22'
BURY: ROADWAY DITCHES		22'
CATHODIC PROTECTION		YES

VENTS: NUMBER 0 SIZE N/A HEIGHT OF VENT ABOVE GROUND N/A

NOTE: CASING TO BE JACKED OR DRY BORED ONLY

NOTE:
IN PLACE OF VENTS, 2 MANHOLES WILL BE LOCATED AT EACH END OF CROSSING PER ATTACHED DESIGN DRAWINGS.

AT BEND
COUNTY OF DESCHUTES STATE OF OR SLG

REVISION 1 DRAWING NO. 1-50611

Marsh USA Inc.
1717 Main Street
Dallas, TX 75201-7357
214 303 8519
Rosa.M.Martinez@marsh.com
www.marsh.com

Fax

To:	Jim Woodrich	**From:**	Rosa M. Martinez
Date:	February 6, 2012	**Fax:**	214 303 8021
Organization:	City of Bend Public Works	**Phone:**	214 303 8519
Email:	jwodrich@ci.bend.or.us	**Pages:**	1
Phone:	541-693-2190		
Subject:	BNSF Railway Company – Permit		

Permittee:	City of Bend Public Works 575 NE 15th Street Bend, OR 97701
Permit Type:	Pipeline License
Limits:	$5M occurrence / $10M aggregate
Location:	LS 0054 Mile Post: 2.20
Tracking:	10-41837
Insured:	BNSF Railway Company
Carrier:	Lexington Insurance Company
RPLI Amount:	$1,000.00

This will acknowledge that Railroad Protective Liability Insurance is in place effective February 6, 2012 to February 6, 2013, for the above referenced project, subject to the terms of the BNSF Railway License Agreement as approved and executed by Jones Lang LaSalle.

Please contact BNSF Roadmaster, Scott Schon at telephone (541) 385-7539 (Office).

Thank you,

CC: Tanita Thomas - JLL
Quitterie Cotten, PE Quitterie.Cotten@CH2M.com
Scott Schon- BNSF Roadmaster –Scott.schon@bnsf.com

This document and any accompanying attachments may contain confidential information, including confidential health information that is legally privileged. This information is intended only for the use of the individual or entity named above. The addressee should not disclose this information to any other party unless required to do so by law or regulation and should destroy the information after its stated need has been fulfilled. If you are not the addressee, please do not read, copy, forward, use, or store this transmission or any accompanying documents, and please notify the sender immediately to arrange for the return or destruction of these documents.

CONFORMED- ADDED BY ADDENDUM 2

Tracking No. 14-50651

SUPPLEMENTAL AGREEMENT

This SUPPLEMENTAL AGREEMENT, made this _____ day of _____ 2014, subject to the terms and conditions set forth in the original agreement, between **BNSF RAILWAY COMPANY,** a Delaware corporation, its successors and assigns, (hereinafter called "Licensor") and **CITY OF BEND**, an Oregon municipal corporation (hereinafter called "Licensee").

RECITALS:

Licensor and Licensee are now parties to an agreement dated April 15, 2011, Licensor's Contract No. BF62275, together with any and all modifications, supplements and amendments thereto (hereinafter called "Original Contract"), relating to using site for a pipeline carrying raw sewage.

AGREEMENT:

IN CONSIDERATION of the sum of Six Hundred and No/100 Dollars ($600.00) to be paid to Licensor by Licensee upon execution of this Supplemental Agreement as a one-time charge for preparation and administration of this Supplemental Agreement, it is mutually agreed that the following modification(s) will be made to the Original Contract:

1. **GENERAL.** The length and angle of the pipeline will be changed from 227 feet at a 61 degree +/- angle to a pipeline that measures 215 feet at a 67 degree +/- angle to the centerline of the track as depicted on the attached Exhibit "A", drawing number 1-50611 dated July 21, 2014 located at or near the station of Bend, County of Deschutes, State of Oregon, Line Segment 0054, Mile Post 2.20 and made a part hereof ("Premises").

2. **INSURANCE.**

   D. **Railroad Protective Liability Insurance.** This insurance shall name only the Licensor as the Insured with coverage of at least $5,000,000 per occurrence and $10,000,000 in the aggregate. The coverage obtained under this policy shall only be effective during the initial installation and/or construction of the PIPELINE. **THE CONSTRUCTION OF THE PIPELINE SHALL BE COMPLETED WITHIN ONE (1) YEAR OF THE EFFECTIVE DATE.** If further maintenance of the PIPELINE is needed at a later date, an additional Railroad Protective Liability Insurance Policy shall be required. The policy shall be issued on a standard ISO form CG 00 35 10 93 and include the following:
   - Endorsed to include the Pollution Exclusion Amendment (ISO form CG 28 31 10 93)
   - Endorsed to include the Limited Seepage and Pollution Endorsement.
   - Endorsed to include Evacuation Expense Coverage Endorsement.
   - No other endorsements restricting coverage may be added.

CONFORMED- ADDED BY ADDENDUM 2

Tracking No. 14-50651

- The original policy must be provided to the Licensor prior to performing any work or services under this Agreement.

In lieu of providing a Railroad Protective Liability Policy, Licensee may participate in Licensor's Blanket Railroad Protective Liability Insurance Policy available to Licensee or its contractor. The limits of coverage are the same as above. The cost is $1,150.

☑ I **elect** to participate in Licensor's Blanket Policy;

☐ I **elect not** to participate in Licensor's Blanket Policy.

As herein modified, the Original Contract shall continue in full force and effect.

Jones Lang LaSalle Brokerage, Inc. is acting as representative for BNSF Railway Company.

IN WITNESS WHEREOF, this Supplemental Agreement has been duly executed in duplicate by the parties hereto as of the day and year first above written.

BNSF RAILWAY COMPANY
Jones Lang LaSalle Brokerage, Inc.,
its Attorney in Fact
4300 Amon Carter Blvd, Suite 100
Fort Worth, TX 76155

By: _____
Ed Darter
Title: Sr. Vice President-National Accounts

REVIEWED
Gary Firestone
LEGAL COUNSEL

CITY OF BEND
575 NE 15th Street
Bend, OR 97701

By: _____

Title: CITY MANAGER

CONFORMED- ADDED BY ADDENDUM 2

TRACKING NO. 14-50651

EXHIBIT "A"

ATTACHED TO CONTRACT BETWEEN

BNSF RAILWAY COMPANY

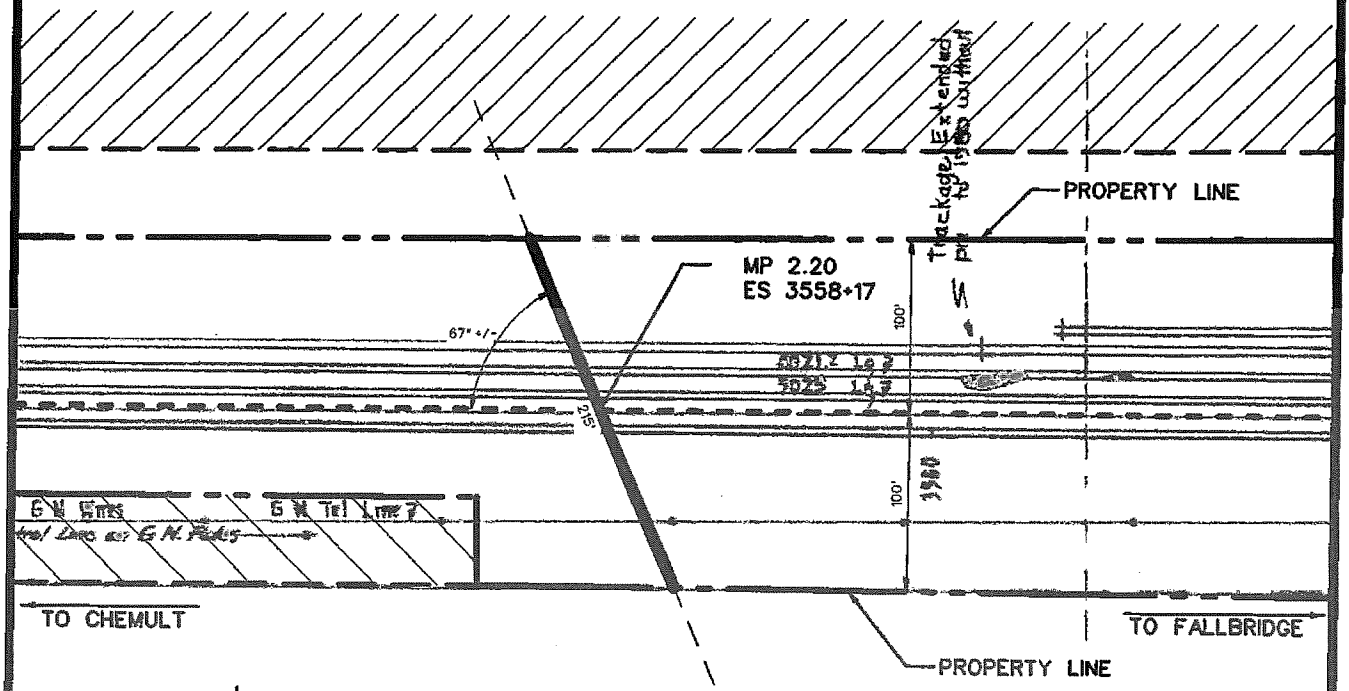
AND

CITY OF BEND PUBLIC WORKS

MAP REF. S51792

SCALE: 1 IN.= 100 FT.
NORTHWEST DIV.
OREGON TRUNK SUBDIV. L.S. 0054
DATE 07/21/2014

SECTION: 16
TOWNSHIP: 18S
RANGE: 12E
MERIDIAN: WILLM



DESCRIPTION OF PIPELINE
PIPELINE SHOWN BOLD

	CARRIER PIPE	CASING PIPE		CARRIER PIPE	CASING PIPE
SIZE:	23.425"	34.5"	LENGTH ON R/W:	215'	215'
CONTENTS:	RAW SEWAGE		WORKING PRESSURE:	GRAVITY	
PIPE MATERIAL:	PVC	STEEL	BURY: BASE/RAIL TO TOP OF CASING		21'
SPECIFICATION/GRADE:	DR21	35,000 PSI	BURY: NATURAL GROUND		21'
WALL THICKNESS:	1.23"	0.75"	BURY: ROADWAY DITCHES		21'
COATING:	–	–	CATHODIC PROTECTION		YES

VENTS: NUMBER 0 SIZE N/A HEIGHT OF VENT ABOVE GROUND N/A

NOTE: CASING TO BE JACKED OR DRY BORED ONLY

NOTE:
IN PLACE OF VENTS, 2 MANHOLES WILL BE LOCATED AT EACH END OF CROSSING PER ATTACHED DESIGN DRAWINGS.

AT BEND
COUNTY OF DESCHUTES

STATE OF OR

JNC

REVISION 2

DRAWING NO. 1-50611

EXHIBIT D

CONSTRUCTION STORMWATER CONTROL PERMIT 1200C

Oregon
John A. Kitzhaber, MD, Governor

Department of Environmental Quality
Eastern Region - Pendleton Office
700 SE Emigrant Ave, Suite 330
Pendleton, OR 97801
Phone: (541) 276-4063
Fax: (541) 278-0168
Relay Service: 711

May 22, 2012

Jim Wodrich
City of Bend
575 NE 15th St.
Bend, OR 97709

Re: Construction Stormwater Control Permit - 1200-C
File No. 121948
Site: Bend Southeast Interceptor Project
Portions of Deschutes Market Rd., Butler Market Rd., NE 27th St., SE 27th St., Reed Market Rd., Camelot Pl., and King Solomon Pl., Ferguson Rd., Chloe Ln., SE 15th St., Bend, Oregon
County: Deschutes

DEQ received your application for registration under National Pollutant Discharge Elimination System (NPDES) Construction Stormwater Discharge Permit 1200-C. The permit is enclosed.

Important permit provisions

Please read your permit carefully and comply with permit requirements.

- Implement your Erosion and Sediment Control Plan (ESCP) to prevent sediment (dirt) from leaving the site (*Schedule A of 1200-C*).
- Inspect erosion and sediment controls *daily* when it's raining; record these inspections and maintain records on site (*Schedule B of 1200-C*).
- Report to DEQ when major changes are made to your ESCP or when permit conditions are violated (*Schedule A of 1200-C*).
- Implement permit conditions specific to projects as a Common Plan of Development.

Change in project owner or operator?

If the legally responsible entity for this site changes, permit coverage must be transferred to the new entity. Use the *DEQ Permit Transfer* form; a transfer fee will be required.

Terminate permit coverage to avoid fees

To avoid paying additional fees, terminate permit coverage using the *DEQ Notice of Termination* form when soil disturbance is finished, soils are stabilized, and temporary erosion and sediment controls have been removed.

For DEQ forms and assistance

Please visit the DEQ website at http://www.deq.state.or.us/wq/stormwater/construction.htm.

If you have any questions about this permit, please contact Krista Ratliff in the Eastern Region - Bend Office at (541) 633-2033 or e-mail at ratliff.krista@deq.state.or.us

Sincerely,

Cheryll Hutchens-Woods

Cheryll Hutchens-Woods
Water Quality Manager
Eastern Region

CHW:jmr
Enclosure

CONFORMED- ADDED BY ADDENDUM 2

GENERAL PERMIT
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
STORMWATER DISCHARGE PERMIT

Oregon Department of Environmental Quality
811 SW Sixth Avenue, Portland OR 97204
Telephone: (503) 229-5279 or 1-800-452-4011 (toll free in Oregon)

Issued pursuant to ORS 468B.050 and Section 402 of the Federal Clean Water Act

REGISTERED TO:
File No. 121948 GEN12C
City of Bend
575 NE 15th St.
Bend, OR 97709

Registered May 22, 2012
Deschutes County/ER
EPA No. ORR10-D189
LLID: 1213472440207
River Mile: 6.26-D

Site Loc. Portions of Deschutes Market Rd., Butler Market Rd., NE 27th St., SE 27th St., Reed Mkt. Rd. Camelot Pl. and King Solomon Pl., Ferguson Rd., Chloe Ln., SE 15th St., Bend, Oregon

SOURCES COVERED BY THIS PERMIT:

- Construction activities including clearing, grading, excavation, materials or equipment staging and stockpiling that will disturb one or more acres and may discharge to surface waters or conveyance systems leading to surface waters of the state.
- Construction activities including clearing, grading, excavation, materials or equipment staging and stockpiling that will disturb less than one acre that are part of a common plan of development or sale if the larger common plan of development or sale will ultimately disturb one acre or more and may discharge to surface waters or conveyance systems leading to surface waters of the state.
- This permit also authorizes discharges from any other construction activity (including construction activity that disturbs less than one acre and is not part of a common plan of development or sale) designated by DEQ, where DEQ makes that designation based on the potential for contribution to an excursion of a water quality standard or for significant contribution of pollutants to waters of the state.

This permit does not authorize the following:

- In-water or riparian work, which is regulated by other programs and agencies including the Federal Clean Water Act Section 404 permit program, the Oregon Department of State Lands, the Oregon Department of Fish and Wildlife, the U.S. Fish and Wildlife Service, the U.S. Army Corp of Engineers, the National Marine Fisheries Service, and the Department of Environmental Quality Section 401 certification program.
- Post-construction stormwater discharges that originate from the site after completion of construction activities and final stabilization.
- Discharges to underground injection control (UIC) systems.

Neil Mullane

Neil Mullane, Administrator
Water Quality Division

Effective: December 1, 2010
Expiration Date: November 30, 2015

PERMITTED ACTIVITIES

Until this permit expires, is modified or revoked, the permit registrant is authorized to construct, install, modify, or operate erosion and sediment control measures and stormwater treatment and control facilities, and to discharge stormwater and certain specified non-stormwater discharges to surface waters of the state or conveyance systems leading to surface waters of the state in conformance with all the requirements, limitations, and conditions set forth in the permit including attached schedules as follows:

Contents

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SCHEDULE A
CONTROLS AND LIMITATIONS FOR STORMWATER DISCHARGES, AND EROSION AND SEDIMENT CONTROL PLAN

CONSTRUCTION ACTIVITIES REQUIRED TO REGISTER FOR PERMIT

An owner or operator of construction activities must register for coverage under this permit with DEQ before any soil disturbance occurs, if they are not automatically covered as described in the 1200-CN permit.

1. Registering New Construction Activities

a. Applicants seeking registration for coverage under this permit for construction activities that will disturb one or more acres must submit a complete application to DEQ or Agent at least 30 calendar days before the planned soil disturbance, unless otherwise approved by DEQ or Agent (see Schedule D for description of Agent). The application must include:
   i. A DEQ-approved application form;
   ii. One paper copy and one electronic copy (PDF) of an Erosion and Sediment Control Plan (ESCP);
   iii. A Land Use Compatibility Statement (LUCS) indicating that the proposed activities are compatible with the local government's acknowledged comprehensive plan; and
   iv. Applicable permit fees.

b. Applicants seeking registration for coverage under this permit for construction activities that will disturb less than one acre that are part of a larger common plan of development or sale must, at least 30 calendar days before the planned soil disturbance, submit:
   i. A DEQ-approved application form;
   ii. One copy of an Erosion and Sediment Control Plan that covers the individual lot(s); and
   iii. Applicable permit fees.

c. Applicants seeking registration for coverage under this permit for construction activities that disturb or are likely to disturb five (5) or more acres over the life of the project, are subject to a 14-calendar day public review period before permit registration is granted. The public review period will not begin if the application form or ESCP are incomplete. These applicants must submit to DEQ or Agent an additional paper copy of an ESCP (total of two paper copies and one PDF copy).

d. DEQ or Agent will notify the applicant in writing if registration is approved or denied. Permit coverage does not begin until the applicant receives written notice that the registration is approved. If registration is denied or the applicant does not wish to be regulated by this permit, the applicant may apply for an individual permit in accordance with OAR 340-045-0030.

2. Renewal Application for Permit Coverage

a. An owner or operator of construction activities registered under the 1200-C permit that expires on November 30, 2010 must submit to DEQ or Agent a complete renewal application, using a DEQ-approved renewal application form by November 30, 2010 to ensure uninterrupted permit coverage for construction stormwater discharges.

b. If registration is denied or the applicant does not wish to be regulated by this permit, the applicant may apply for an individual permit in accordance with OAR 340-045-0030.

3. Transfer of Permit Registration

a. To transfer permit registration, the new owner or permit registrant must submit a DEQ-approved transfer form and applicable fees prior to permit expiration and within 30 calendar days of the planned transfer.

b. If ownership changes (through sale, foreclosure or other means) and the previous owner cannot be found:
   i. The new owner must register for coverage under the permit (Schedule A, Part II, condition 1) if the site is not stabilized.

ii. The new owner must register for coverage under the permit (Schedule A, Part II, condition 1) prior to any additional soil disturbance.
iii. The new owner does not need to register for coverage under the permit if the site meets the conditions for termination (see Schedule B) and there is no ongoing or additional soil disturbance planned.
iv. DEQ will attempt to contact the previous owner at the address on record. If there is no response, after 60 days DEQ may terminate the previous owner's permit coverage.

4. Authorized Stormwater Discharges

Subject to compliance with the terms and conditions of this permit, and provided that all necessary controls are implemented to minimize sediment transport, the following stormwater discharges from construction sites are authorized (unless otherwise prohibited by local ordinances):

a. Stormwater associated with construction activity described in the "Sources Covered" section of the permit.
b. Stormwater from support activities at the construction site (for example, concrete or asphalt operations, equipment staging yards, material storage areas, excavated material disposal areas and borrow areas) provided:
   i. The support activity is directly related to the construction site covered by this NPDES permit;
   ii. The support activity is not a commercial operation serving multiple unrelated construction projects by different permit registrants;
   iii. The support activity does not operate beyond the completion of the construction activity at the last construction project it supports; and
   iv. Appropriate control measures are used to ensure compliance with discharge and water quality requirements.

5. Authorized Non-Stormwater Discharges

Subject to compliance with the terms and conditions of this permit, and provided that all necessary controls are implemented to minimize sediment transport, the following non-stormwater discharges from construction sites are authorized (unless otherwise prohibited by local ordinances):

a. Potable water including uncontaminated water line flushing (refer to DEQ guidance);
b. Vehicle washing that does not use detergents or hot water;
c. External building wash down that does not use detergents or hot water;
d. Pavement wash waters where stockpiled material, spills or leaks of toxic or hazardous materials have not occurred (unless all stockpiled and spilled material has been removed) and where detergents or hot water are not used;
e. Construction dewatering activities (including groundwater dewatering and well drilling discharge associated with the registered construction activity), provided that:
   i. the water is land applied in a way that results in complete infiltration with no potential to discharge to a surface water of the state, or
   ii. Best Management Practices (BMPs) or an approved treatment system is used to ensure compliance with discharge and water quality requirements;
f. Foundation or footing drains where flows are not contaminated with process materials such as solvents; and
g. Landscape irrigation.

For other non-stormwater discharges, a separate permit may be needed. The disposal of wastes to surface waters or on-site are not authorized by this permit. The permit registrant must submit a separate permit application for such discharges.

6. Limitations on Coverage

The following discharges are not authorized by this permit:

a. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
b. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
c. Soaps or solvents used in vehicle and equipment washing.

7. Control Measures

The following controls and practices are required, if appropriate for the site.

a. Wet Weather BMPs.
   i. Avoid or minimize excavation and bare ground activities during wet weather.
b. Temporarily stabilize soils at the end of the shift before holidays and weekends, if needed. It is the owner/operator's responsibility to ensure that soils are stable during rain events at all times of the year. Erosion Prevention (Prevent or minimize the initial disturbance of sediment).
   i. Clearing and Grading.
      Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming sources of erosion. Minimize erosion during and after soil disturbance using BMPs such as temporary seeding and planting, permanent seeding and planting, mulches, compost blankets, erosion control blankets and mats, and soil tackifiers.
   ii. Wind Erosion/Dust Control. Water or use a soil-binding agent or other dust control technique as needed to avoid wind-blown soil.
   iii. Vegetative Erosion Control.
      (1) Preserve existing vegetation and re-vegetate open areas when practical.
      (2) Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established.
      (3) Identify the type of seed mix (percentages of the various seeds of annuals, perennials and clover) and other plantings.
c. Runoff Control (Divert, collect, convey or control flow; prevent or minimize scouring).
   Use BMPs such as diversion of run-on; trench drains, slope drains, french drains and subsurface drains that discharge to the surface; temporary diversion dikes; earth dikes; grass-lined channels (such as turf reinforcement mats); drainage swales; energy dissipaters; rock outlet protection; drop inlets; and check dams. Note that any underground injection must comply with OAR Chapter 340, Division 44.
d. Sediment Control (Retain and/or remove sediment through filtration and settling).
   i. Control sediment along the site perimeter and at all operational internal storm drain inlets at all times during construction. Retain and remove sediment both internally and at the site boundary by using BMPs such as sediment fences, vegetative buffer strips, sediment traps, rock filters, compost berms/compost socks, fiber rolls/ loose non-compacted straw wattles, storm drain inlet protection, and temporary or permanent sedimentation basins.
   ii. Sediment Tracking and Transport Control.
      (1) Prevent tracking of sediment onto public or private roads using BMPs such as:
         (a) Establish graveled (or paved) exits and parking areas prior to any land disturbing activities.
         (b) Gravel all unpaved roads located onsite.
         (c) Use an exit tire wash.
      (2) Cover all sediment loads leaving the site.
      (3) When trucking saturated soils from the site, either use water-tight trucks or drain loads on site.
e. Pollution Prevention and Control.
   i. Pollution Prevention.
      (1) Use BMPs to prevent pollution of stormwater or to treat flow from dewatering operations, ponded water management, paving operation controls, and temporary equipment bridge use.
      (2) Use BMPs to prevent or minimize stormwater from being exposed to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and

other oils from vehicles and machinery, as well as debris, leftover paints, solvents, and glues from construction operations.

ii. Stockpile Erosion and Sediment Control Practices.

(1) Stockpiles located away from the construction activity but still under the control of the permit registrant must be protected to prevent significant amounts of sediment or turbid water from discharging to surface waters or conveyance systems leading to surface waters.

(2) At the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters.

(3) In developing these practices, at a minimum the following must be considered: diversion of uncontaminated flows around stockpiles, use of cover over stockpiles, and installation of sediment fences (or other barriers that will prevent the discharge of sediment or turbidity) around stockpiles.

iii. Solid Waste and Hazardous Materials Management.
Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies.

f. Additional BMP Requirements During Inactive Periods.

i. If all construction activities cease at the site for thirty (30) days or more, the entire site must be stabilized using temporary seeding, vegetation, a heavy mulch layer, or another method.

ii. On any significant portion of the site, if construction activities cease for fourteen (14) calendar days or more, install temporary covering with blown straw and a tackifier, loose straw, or an adequate covering of compost mulch.

8. Implementation of Control Measures

a. All permit registrants must implement the ESCP (Paragraph A.12). Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit.

b. All permit registrants must prevent the discharge of significant amounts of sediment to surface waters or conveyance systems leading to surface waters. The following conditions indicate that a significant amount of sediment has left or is likely to leave the site:

i. Earth slides or mud flows;

ii. Concentrated flows of stormwater such as rills, rivulets or channels that cause erosion when such flows are not filtered, settled or otherwise treated to remove sediment;

iii. Sediment laden or turbid flows of stormwater that are not filtered or settled to remove sediments and turbidity;

iv. Deposits of sediment at the construction site in areas that drain to unprotected stormwater inlets or to catch basins that discharge to surface waters. Inlets and catch basins with failing sediment controls due to lack of maintenance or inadequate design are considered unprotected;

v. Deposits of sediment from the construction site on any property (including public and private streets) outside of the construction activity covered by this permit.

c. The permit registrant must ensure the control measures or practices described in the ESCP are implemented according to the following sequence:

i. Before Construction.

(1) Identify, mark, and protect (with construction fencing or other means) critical riparian areas and vegetation including important trees and associated rooting zones and vegetation areas to be preserved.

(2) Identify vegetative buffer zones between the site and sensitive areas (for example, wetlands), and other areas to be preserved, especially in perimeter areas.

(3) Hold a pre-construction meeting of project construction personnel that includes the inspector required by condition A.12.b.iii to discuss erosion and sediment control measures and construction limits.

(4) Stabilize site entrances and access roads including, but not limited to construction entrances, roadways and equipment parking areas (for example, using geotextile fabric underlay).
(5) Install perimeter sediment control, including storm drain inlet protection as well as all sediment basins, traps, and barriers.
(6) Establish concrete truck and other concrete equipment washout areas before beginning concrete work.
(7) Establish material and waste storage areas, and other non-stormwater controls.
(8) Stabilize stream banks and construct the primary runoff control measures to protect areas from concentrated flows.

ii. During Construction.
(1) Land Clearing, Grading and Roadways.
(a) Begin land clearing, excavation, trenching, cutting or grading only after installing applicable sediment and runoff control measures.
(b) Provide appropriate erosion and sediment control BMPs for all roadways including gravel roadways.
(c) Install additional control measures as work progresses as needed.
(d) Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion.
(2) Surface Stabilization.
Apply temporary or permanent soil stabilization measures (for example, temporary and permanent seeding, or mulching) immediately on all disturbed areas as work is completed. Stabilization of disturbed areas must be initiated immediately whenever any earth disturbing activities have permanently ceased on any portion of the site.
(3) Construction and Paving.
Keep erosion and sediment control measures in place for the duration of construction, including protection for active storm drain inlets and appropriate non-stormwater pollution controls.

iii. Final Stabilization and Landscaping.
(1) Provide permanent erosion prevention measures on all exposed areas.
(2) Remove and properly dispose of construction materials and waste, including sediment retained by temporary BMPs.
(3) Remove all temporary control measures as areas are stabilized, unless doing so conflicts with local requirements.

9. BMP Maintenance

a. The permit registrant must establish and promptly implement procedures for maintenance and repair of erosion and sediment control measures.
b. General Site Maintenance.
i. Significant amounts of sediment that leave the site must be cleaned up within 24 hours, placed back on the site and stabilized, or disposed of properly. In addition, the source(s) of the sediment must be controlled to prevent continued discharge within 24 hours. Any in-stream cleanup of sediment must be performed according to requirements and timelines set by the Oregon Department of State Lands.
ii. Sediment must not be intentionally washed into storm sewers or drainage ways. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments.
iii. If fertilizers are used to establish vegetation, the application rates must follow manufacturer's guidelines and the application must be done in such a way to minimize discharge of nutrients to surface waters.
c. Maintenance of Erosion and Sediment Controls.
i. Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height.
ii. Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height.

iii. Catch basins: clean before sediment retention capacity has been reduced by fifty percent.
iv. Sediment basins: remove trapped sediments before design capacity has been reduced by fifty percent.

d. Stormwater Treatment Systems.
If a stormwater treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. The plan must be approved before operating the treatment system. The treatment system must be operated and maintained according to manufacturer's specifications.

10. In-stream Water Quality Standards

a. The permit registrant must not cause or contribute to a violation of in-stream water quality standards.
b. If the permit registrant develops, implements, and revises the control measures and practices described in the ESCP in compliance with Schedule A of this permit, DEQ assumes that the discharges authorized by this permit will not cause or contribute to a violation of water quality standards unless there is evidence to the contrary.

11. Water Quality Requirements for TMDL and 303(d) Listed Waterbodies

In addition to other applicable requirements of this permit, if a permit registrant's construction project has the potential to discharge to a portion of a waterbody that is listed for turbidity or sedimentation on the most recently EPA-approved Oregon 303(d) list or that have an established Total Maximum Daily Load (TMDL) for sedimentation or turbidity (available at www.deq.state.or.us/WQ/assessment/assessment.htm), the permit registrant must implement one or more of the BMPs listed below to control and treat sediment and turbidity. The selected BMP(s) must be identified in the ESCP as addressing this condition of the permit, and the rationale for choosing the selected BMP(s) must also be provided.

a. Compost berms, compost blankets, or compost socks;
b. Erosion control mats;
c. Tackifiers used in combination with perimeter sediment control BMPs;
d. Established vegetated buffers sized at 50 feet (horizontally) plus 25 feet (horizontally) per 5 degrees of slope;
e. Water treatment by electro-coagulation, flocculation, or filtration; and/or
f. Other substantially equivalent sediment or turbidity BMP approved by DEQ or Agent.

12. Erosion and Sediment Control Plan (ESCP)

a. Preparation.
i. The permit registrant must ensure that an ESCP is prepared and revised as necessary for the construction activity regulated by this permit and submitted to DEQ or Agent as required by this permit.
ii. Qualifications to Prepare ESCP.
(1) For construction activities disturbing 20 or more acres, the ESCP must be prepared and stamped by an Oregon Registered Professional Engineer, Oregon Registered Landscape Architect, Oregon Certified Engineering Geologist, or Certified Professional in Erosion and Sediment Control (Soil and Water Conservation Society).
(2) If engineered facilities such as sedimentation basins or diversion structures for erosion and sediment control are required, the ESCP must be prepared and stamped by an Oregon Registered Professional Engineer.

b. Required ESCP Elements
i. Name of the site.
ii. Local Government Requirements.
Include any procedures necessary to meet applicable local government erosion and sediment control or stormwater management requirements.

iii. Erosion and Sediment Control Inspector.

(1) Inspections must be conducted by a person knowledgeable in the principles and practice of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact stormwater quality, is knowledgeable in the correct installation of the erosion and sediment controls, and is able to assess the effectiveness of any sediment and erosion control measures selected to control the quality of stormwater discharges from the construction activity.

(2) Inspections must be conducted by a designated Erosion and Sediment Control Inspector.

(3) Provide the following for all personnel that will conduct inspections:

(e) Name and title;

(f) Contact phone number and, if available, e-mail address; and

(g) Description of experience and training.

iv. Narrative Site Description.

(1) Nature of the construction activity;

(2) Proposed timetable indicating when each erosion and sediment control BMP is to be installed and the duration that it is to remain in place;

(3) Estimates of the total area of the permitted site and the area of the site that is expected to undergo clearing, grading or excavation;

(4) Nature of the fill material to be used, and of the insitu soils; and

(5) Names of the receiving water(s) for stormwater runoff.

v. Site Map and Drawings.

(1) The site map and drawings must be kept on site and must represent the actual BMP controls being used onsite, particularly those BMPs identified in the most recent ESCP;

(2) The site map must show sufficient roads and features for DEQ or Agent to locate and access the site;

(3) The site map and drawings must include (but is not limited to) the following features (as applicable):

(a) Total property boundary including surface area of the development;

(b) Areas of soil disturbance (including, but not limited to, showing cut and fill areas and pre- and post-development elevation contours);

(c) Drainage patterns before and after finish grading;

(d) Discharge points;

(e) Areas used for the storage of soils or wastes;

(f) Areas where vegetative practices are to be implemented;

(g) All erosion and sediment control measures or structures;

(h) Impervious structures after construction is completed (including buildings, roads, parking lots and outdoor storage areas);

(i) Springs, wetlands and other surface waters on site or adjacent to the site;

(j) Temporary and permanent stormwater conveyance systems;

(k) Onsite water disposal locations (for example, for dewatering);

(l) Storm drain catch basins depicting inlet protection, and a description of the type of catch basins used (for example, field inlet, curb inlet, grated drain and combination);

(m) Septic drain fields;

(n) Existing or proposed drywells or other UICs;

(o) Drinking water wells on site or adjacent to the site;

(p) Planters;

(q) Sediment and erosion controls including installation techniques; and

(r) Detention ponds, storm drain piping, inflow and outflow details.

c. ESCP Revisions
   i. ESCP revisions must:
      (1) Clearly identify any changes (such as type or design) to the BMPs identified in the ESCP, their location, maintenance required, and any other revisions necessary to prevent and control erosion and sediment runoff.
      (2) Include contact information and any applicable certification, training and experience for changes in Erosion and Sediment Control Inspector.
   ii. Approval of the revisions by DEQ or Agent prior to implementation is not required.
   iii. Submission of all ESCP revisions is not required. ESCP revisions must be submitted only if they are made for any of the following reasons:
      (1) Part of a Corrective Action (A.13).
      (2) Change (increase or decrease) in the size of the project.
      (3) Change (increase or decrease) in the size or location of disturbed areas.
      (4) Change to BMPs (for example, type, design or location).
      (5) Change in erosion and sediment control inspector.
   iv. If submission of ESCP revisions is required, submit two paper copies and one electronic PDF to DEQ or Agent within 10 days of the revision. These revisions should be submitted as revised pages of the ESCP or drawings only; it is not necessary to submit the entire ESCP. If the permit registrant does not receive a response to the revisions from DEQ or Agent within 10 days of receipt, the proposed revisions are deemed accepted.
   v. DEQ or Agent may require the permit registrant to revise the ESCP at any time. The permit registrant must submit the revisions according to the timeframe specified by DEQ or Agent.

13. Corrective Actions

a. Corrective actions are required if any of the following occur:
   i. Significant amounts of sediment or turbidity (as described in A.8.b) are visibly detected in: 1) the discharge to a conveyance system leading to surface waters; 2) the discharge to surface waters 50 feet downstream; or 3) the discharge in surface waters at any location where more than one-half of the width of the receiving surface waters is affected.
   ii. The construction activity causes or contributes to a violation of in-stream water quality standards (A.10.a).
   iii. DEQ or the Agent requires the permit registrant to take corrective actions to prevent or control the discharge of significant amounts of sediment or turbidity to surface waters or to conveyance systems that discharge to surface waters.
b. If corrective actions are required, the registrant must:
   i. Immediately, but no later than 24 hours after initial detection, take corrective actions or implement additional effective BMPs until the significant amounts of sediment or turbidity are no longer visually detectable and to ensure that the requirements of Conditions A.8.b and A.10.a are met.
   ii. Document in the inspection records the corrective actions taken.
   iii. Evaluate the control measures and practices to determine the cause of the noncompliance. Submit a written report to DEQ or Agent within 10 days of identifying the need to take corrective action as required in condition 13.a above. This report must include:
      (1) The site common name and DEQ file number.
      (2) Identification of outfalls that were out of compliance.
      (3) Names of personnel conducting inspections.
      (4) A description of the noncompliance and its cause.
      (5) The period of noncompliance.
      (6) Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance (such as specific BMPs that will be implemented or increased inspection frequency).
      (7) ESCP revisions, if revisions were required to prevent and control erosion and sediment discharges.

SCHEDULE B
MINIMUM MONITORING AND RECORDKEEPING REQUIREMENTS

1. **Inspections**
   a. The following must be inspected by a designated Erosion and Sediment Control Inspector:
      i. All areas of the site disturbed by construction activity to ensure that BMPs are in proper working order.
      ii. Discharge point(s) identified in the ESCP for evidence of or the potential for the discharge of pollutants (including sediment and turbidity), and to ascertain whether erosion and sediment control measures are effective in preventing significant impacts to surface waters. Where discharge points are inaccessible, nearby downstream locations must be inspected to the extent that such inspections are practical.
      iii. BMPs identified in the ESCP and any ESCP revisions to assess whether they are functioning properly.
      iv. Locations where vehicles enter or exit the site for evidence of off-site sediment tracking.
      v. Areas used for storage of materials that are exposed to precipitation for evidence of spillage or other potential to contaminate stormwater runoff.

   b. All ESCP controls and practices must be inspected visually according to the following schedule:

Site Condition	Minimum Frequency
1. Active period	Daily when stormwater runoff, including runoff from snow melt, is occurring. At least once every two (2) weeks, regardless of whether stormwater runoff is occurring.
2. Prior to the site becoming inactive or in anticipation of site inaccessibility	Once to ensure that erosion and sediment control measure are in working order. Any necessary maintenance and repair must be made prior to leaving the site.
3. Inactive periods greater than fourteen (14) consecutive calendar days	Once every two (2) weeks.
4. Periods during which the site is inaccessible due to inclement weather	If practical, inspections must occur daily at a relevant and accessible discharge point or downstream location.

   c. Documentation of inspections.
      All inspections must be documented in writing as follows:
      i. Inspection date and inspector's name.
      ii. Observations for each discharge location. If a discharge location is inaccessible due to inclement weather, record the inspections noted at a relevant discharge point or downstream location if practical.
         (1) Where to make observations:
            (a) At the discharge location if the discharge is to a conveyance system leading to surface waters;
            (b) From the discharge point to 50 feet downstream if the discharge is to surface waters; and
            (c) At any location where more than one-half of the width of the receiving surface water is affected.
         (2) How to make observations:
            (a) For turbidity and color, describe any apparent color and the clarity of the discharge, and any apparent difference in comparison with the surface waters.
            (b) Describe any sheen or floating material, or record that it is absent. If present, it could indicate concern about a possible spill or leakage from vehicles or materials storage.

iii. Location(s) of BMPs that need to be maintained, inspections of all BMPs, including erosion and sediment controls, chemical and waste controls, locations where vehicles enter and exit the site, status of areas that employ temporary or final stabilization control, soil stockpile area, and non-stormwater pollution (for example, paints, oils, fuels, or adhesives) controls.
iv. Location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location;
v. Location(s) where additional BMPs are needed that did not exist at the time of inspection; and
vi. Corrective action required and implementation dates.

2. **Recordkeeping**

a. ESCP and All Revisions Retained Onsite. A copy of the ESCP and all revisions must be retained on site and made available on request to DEQ, Agent, or the local municipality. During inactive periods of greater than seven (7) consecutive calendar days, the ESCP must be retained by the permit registrant but does not need to be at the construction site.

b. Inspection Results.

i. All inspection records must be kept on site and maintained by the permit registrant.
ii. During inactive periods of greater than seven (7) consecutive calendar days, the inspection records must be retained by the permit registrant but do not need to be at the construction site.
iii. All inspection records must be made available to DEQ, Agent, or local municipality upon request; and must include:
(1) The construction site name as it appears on the registrant's permit and the file or site number.
(2) All revisions and documentation of reasons for changes or modifications to the ESCP and other corrective measures.
(3) Records must be delivered or made available to DEQ or Agent within three (3) working days of request.
iv. All inspection records must be retained by the permit registrant for at least three (3) years after project completion.

SCHEDULE D
SPECIAL CONDITIONS

1. **Schedule Precedence**

   In the event of any inconsistency between Schedules A through D and F, Schedules A through D will apply.

2. **Other Requirements**

   Registration under this permit does not relieve the permit registrant from all other permitting and licensing requirements. Prior to beginning construction activities, the permit registrant must obtain all other necessary approvals.

3. **Termination of Permit Registration**

   a. If the project never started (there was no construction activity and no soil disturbance):
      i. Complete and submit a Notice of Termination form to DEQ or Agent.
   b. For all construction activity, the following conditions must be met prior to termination:
      i. All portions of the site for which you are responsible must meet final stabilization criteria (B.3.c.i – B.3.c.vi); and
      ii. For a common plan of development or sale:
         (1) All portions of the original common plan of development or sale that have been sold must either meet final stabilization criteria (B.3.c.i – B.3.c.vi) or be covered by the 1200-C or 1200-CN; and
         (2) The owner/operator of the common plan must submit an update of the ESCP depicting new site boundaries (based on the sale of portions of the common plan).
   c. Final stabilization is determined by satisfying the following criteria:
      i. There is no reasonable potential for discharge of a significant amount of construction related sediment or turbidity to surface waters.
      ii. Construction materials and waste have been removed and disposed of properly. This includes any sediment that was being retained by the temporary erosion and sediment controls.
      iii. All temporary erosion and sediment controls have been removed and disposed of properly, unless doing so conflicts with local requirements.
      iv. All soil disturbance activities have stopped and all stormwater discharges from construction activities that are authorized by this permit have ceased.
      v. All disturbed or exposed areas of the site are fully stabilized as defined in condition D.5.l.
      vi. All outstanding compliance issues have been resolved.
   d. To terminate permit registration:
      i. Submit photo-documentation that depicts site stabilization, unless the site has been inspected by DEQ or Agent; and
      ii. Complete and submit a Notice of Termination form to DEQ or Agent.

4. **Local Public Agencies Acting as DEQ's Agent**

   DEQ authorizes local public agencies to act as its Agent in implementing this permit if they entered into a Memorandum of Agreement (MOA). The Agent may be authorized to conduct the following activities, including but not limited to: application and ESCP review, inspections, monitoring data review, stormwater monitoring.

5. **Permit-specific Definitions**

   a. *Agent* means a governmental entity that has an agreement with DEQ to administer this general permit within their jurisdictional boundaries.
   b. *Best Management Practices or BMPs* means schedules of activities, prohibitions of practices, maintenance procedures, and other physical, structural or managerial practices to prevent or reduce the pollution of waters of the state. BMPs include treatment systems, erosion and sediment control, source

control, and operating procedures and practices to control site runoff, spillage or leaks, and waste disposal.

c. *Borrow Area* means the area from which material is excavated to be used as fill material in another area.
d. *Clean Water Act or CWA* means the Federal Water Pollution Control Act enacted by Public Law 92-500, as amended by Public Laws 95-217, 95-576, 96-483, and 97-117; USC 1251 et seq.
e. *Conveyance* System means a sewer, ditch, or swale that is designed to carry water; or any combination of such components.
f. *DEQ* means the Oregon Department of Environmental Quality.
g. *Detention* means the temporary storage of stormwater to improve quality or reduce the volumetric flow rate of discharge or both.
h. *Dewatering* means the removal and disposal of surface water or groundwater during site construction.
i. *Discharge Point* means the location where stormwater leaves the site. It includes the location where stormwater is discharged to surface water or a stormwater conveyance system.
j. *Erosion* means the movement of soil particles or rock fragments by water or wind.
k. *Erosion and Sediment Control BMPs* means BMPs that are intended to prevent erosion and sedimentation, such as preserving natural vegetation, seeding, mulching and matting, plastic covering, sediment fences, and sediment traps and ponds. Erosion and sediment control BMPs are synonymous with stabilization and structural BMPs.
l. *Fully Stabilized* means the completion of all soil disturbing activities at the site by the permit registrant, and the establishment of a permanent vegetative cover, or equivalent permanent stabilization measures (such as riprap, gabions or geotextiles) to prevent erosion.
m. *Hazardous Materials* means the materials defined in 40 CFR part 302 Designation, Reportable Quantities, and Notification.
n. *Local Government* means any county, city, town, or service district.
o. *National Pollutant Discharge Elimination System or NPDES* means the national program under Section 402 of the Clean Water Act for regulation of point source discharges of pollutants to waters of the United States.
p. *Non-Stormwater Pollution Controls* means general site and materials management measures that directly or indirectly aid in minimizing the discharge of sediment and other construction related pollutants from the construction site.
q. *Owner or operator* means the owner or operator of any "facility or activity" subject to regulation under the NPDES program. Owners or operators may be individuals or other legal entities. Owners or operators of automatically covered construction activities are not permit registrants. Operator for the purpose of this permit and in the context of stormwater associated with construction activity, means any party associated with a construction project that meets either of the following two criteria:
   (1) The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or
   (2) The party has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a ESCP for the site or other permit conditions (for example, they are authorized to direct workers at a site to carry out activities required by the ESCP or comply with other permit conditions).
r. *Permanent Control Measures* means erosion prevention materials designed to provide long-term protection to underlying soils. This may include but not limited to buildings, paving. a uniform (evenly distributed, without large bare areas) perennial vegetative cover, riprap, gabions, or geotextiles.
s. *Permit Registrant* means the owner or operator of the construction activity regulated by this permit who has submitted an application and received notice of registration under this general permit by DEQ or Agent. Owners or operators of automatically covered construction activities are not permit registrants.
t. *Pollutant* as defined in 40 CFR §122.2 means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, domestic sewage sludge (biosolids), munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, soil, cellar dirt and industrial, municipal, and agricultural waste discharge into water. It does not mean sewage from vessels

within the meaning of section 312 of the FWPCA, nor does it include dredged or fill material discharged in accordance with a permit issued under section 404 of the FWPCA.

u. *Pollution or Water Pollution* as defined by ORS 468B.005(3) means such alteration of the physical, chemical or biological properties of any waters of the state, including change in temperature, taste, color, turbidity, silt or odor of the waters, or such discharge of any liquid, gaseous, solid, radioactive or other substance into any waters of the state, which will or tends to, either by itself or in connection with any other substance, create a public nuisance or which will or tends to render such waters harmful, detrimental or injurious to public health, safety or welfare, or to domestic, commercial, industrial, agricultural, recreational or other legitimate beneficial uses or to livestock, wildlife, fish or other aquatic life or the habitat thereof.

v. *Runoff Controls* means BMPs that are designed to control the peak volume and flow rate or to prevent scour due to concentrated flows.

w. *Sediment* means mineral or organic matter, typically deposited by water, air, or ice.

x. *Site* means the area where the construction activity is physically located or conducted.

y. *Stormwater Conveyance* means a sewer, ditch, or swale that is designed to carry stormwater; a stormwater conveyance may also be referred to as a storm drain or storm sewer.

z. *Stormwater as defined by 40 CFR §122.26(b)(13)* means stormwater runoff, snow melt runoff, and surface runoff and drainage.

aa. *Surface Runoff* means that portion of stormwater that does not infiltrate into the ground or evaporate, but instead flows onto adjacent land or watercourses or is routed to stormwater conveyance systems.

bb. *Surface Water* means all water naturally open to the atmosphere (for example, rivers, lakes, reservoirs, ponds, streams, impoundments, oceans, estuaries, springs, etc.).

cc. *Total Maximum Daily Load or TMDL* means a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet state water quality standards. It is the sum of the allowable loads of a single pollutant from all contributing point and nonpoint sources. Percentages of the TMDL are allocated by DEQ to the various pollutant sources.

dd. *Turbidity* means the optical condition of waters caused by suspended or dissolved particles or colloids that scatter and absorb light rays instead of transmitting light in straight lines through the water column. Turbidity may be expressed as nephelometric turbidity units (NTUs) measured with a calibrated turbidity meter.

ee. *Underground Injection Control* means any system, structure, or activity that is created to place fluid below the ground or sub-surface (for example, sumps, infiltration galleries, drywells, trench drains, drill holes, etc.)

ff. *Water or Waters of the State as defined by ORS 468B.005(8)* means lakes, bays, ponds, impounding reservoirs, springs, wells, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Pacific Ocean within the territorial limits of the State of Oregon and all other bodies of surface or underground waters, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters which do not combine or effect a junction with natural surface or underground waters), which are wholly or partially within or bordering the state or within its jurisdiction.

SCHEDULE F
NPDES GENERAL CONDITIONS

SECTION A. STANDARD CONDITIONS

1. Duty to Comply
   The permit registrant must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of Oregon Revised Statutes (ORS) 468B.025, the Clean Water Act and 40 Code of Federal Regulations (CFR) §122.41(a), and is grounds for enforcement action; for permit termination, revocation and/or reissuance, or modification; or for denial of a permit renewal application.

2. Penalties for Water Pollution and Permit Condition Violations
   ORS 468.140 allows the Director to impose civil penalties up to $25,000 per day for violation of a term, condition, or requirement of a permit. ORS 468.943 creates the criminal offense of unlawful water pollution in the second degree, for the criminally negligent violation of ORS chapter 468B or any rule, standard, license, permit or order adopted or issued under ORS chapter 468B. Unlawful water pollution in the second degree is punishable by a fine of up to $25,000 or imprisonment for not more than one year, or both. In addition, OAR 468.946, creates the offense of unlawful water pollution of the first degree, which is a Class B felony.

3. Duty to Mitigate
   The permit registrant must take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit. In addition, upon request of the department, the permit registrant must correct any adverse impact on the environment or human health resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

4. Duty to Reapply
   If the permit registrant wishes to continue an activity regulated by this permit after the expiration date of this permit, the permit registrant must apply for and have the permit registration renewed. The application must be submitted at least 180 days before the expiration date of this permit. The department may grant written permission to submit an application less than 180 days in advance but no later than the permit expiration date.

5. Permit Actions
   This permit may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:
   a. Violation of any term, condition, or requirement of this permit, a rule, or a statute
   b. Failure to pay fees when they are due
   c. Obtaining this permit by misrepresentation or failure to disclose fully all material facts
   d. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge
   e. The permit registrant is identified as a Designated Management Agency or allocated a wasteload under a Total Maximum Daily Load (TMDL)
   f. New information or regulations
   g. Modification of compliance schedules
   h. Requirements of permit re-opener conditions
   i. Correction of technical mistakes made in determining permit conditions
   j. Determination that the permitted activity endangers human health or the environment
   k. Other causes as specified in 40 CFR §§122.62, 122.64, and 124.5

   DEQ will give permit registrant notice of the right to a contested case hearing in the event DEQ issues a Notice of Revocation, Suspension or Refusal to Renew the permit.

The filing of a request by the permit registrant for a permit modification, revocation or reissuance, termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

6. Toxic Pollutants
The permit registrant must comply with any applicable effluent standards or prohibitions established under Oregon Administrative Rules (OAR) 340-041-0033 for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

7. Property Rights
The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege, nor does it authorize any injury to persons of property or invasion of any other private rights, nor any infringement of federal, tribal, state, or local laws or regulations.

8. Permit References
Except for effluent standards or prohibitions established under Section 307(a) of the Clean Water Act and OAR 340-041-0033for toxic pollutants, all rules and statutes referred to in this permit are those in effect on the date this permit is issued.

9. Permit Fees
The permit registrant must pay the fees required by OAR 340-045-0070 to 0075.
The permit registrant must pay annual compliance fees by the last day of the month prior to when the permit was issued. For example, if the permit was issued or last renewed in April, the due date will be March 31st. If the payment of annual fees is 30 days or more past due, the permit registrant must pay 9% interest per annum on the unpaid balance. Interest will accrue until the fees are paid in full. If DEQ does not receive payment of annual fees when they are due, DEQ will refer the account to the Department of Revenue or to a private collection agency for collection.

SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance
The permit registrant must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the permit registrant to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by a permit registrant only when the operation is necessary to achieve compliance with the conditions of the permit.

2. Duty to Halt or Reduce Activity
For industrial or commercial facilities, upon reduction, loss, or failure of the treatment facility, the permit registrant must, to the extent necessary to maintain compliance with its permit, control production or all discharges or both until the facility is restored or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails or is reduced or lost. It is not a defense for a permit registrant in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

3. Bypass of Treatment Facilities
   a. Definitions
      i. "Bypass" means intentional diversion of waste streams from any portion of the treatment facility. The term "bypass" does not apply if the diversion does not cause effluent limitations to be exceeded,

provided the diversion is to allow essential maintenance to assure efficient operation or the diversion is due to nonuse of nonessential treatment units or processes at the treatment facility.

ii. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities or treatment processes that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Prohibition of bypass.
   i. Bypass is prohibited unless:
      (1) Bypass was necessary to prevent loss of life, personal injury, or severe property damage;
      (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventative maintenance; and
      (3) The permit registrant submitted notices and requests as required under General Condition B.3.c.
   ii. The department may approve an anticipated bypass, after considering its adverse effects and any alternatives to bypassing, when the department determines that it will meet the three conditions listed above in General Condition B.3.b.(1).
c. Notice and request for bypass.
   i. Anticipated bypass. If the permit registrant knows in advance of the need for a bypass, a written notice must be submitted to the department at least ten days before the date of the bypass.
   ii. Unanticipated bypass. The permit registrant must submit notice of an unanticipated bypass as required in General Condition D.5.

4. Upset
   a. Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permit registrant. An upset does not include noncompliance to the extent caused by operation error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
   b. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of General Condition B.4.c are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance is not final administrative action subject to judicial review.
   c. Conditions necessary for a demonstration of upset. A permit registrant who wishes to establish the affirmative defense of upset must demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
      i. An upset occurred and that the permit registrant can identify the causes(s) of the upset;
      ii. The permitted facility was at the time being properly operated;
      iii. The permit registrant submitted notice of the upset as required in General Condition D.5, hereof (24-hour notice); and
      iv. The permit registrant complied with any remedial measures required under General Condition A.3 hereof.
   d. Burden of proof. In any enforcement proceeding, the permit registrant seeking to establish the occurrence of an upset has the burden of proof.

5. Treatment of Single Operational Upset
   For purposes of this permit, A Single Operational Upset that leads to simultaneous violations of more than one pollutant parameter will be treated as a single violation. A single operational upset is an exceptional incident that causes simultaneous, unintentional, unknowing (not the result of a knowing act or omission),

temporary noncompliance with more than one Clean Water Act effluent discharge pollutant parameter. A single operational upset does not include Clean Water Act violations involving discharge without a NPDES permit or noncompliance to the extent caused by improperly designed or inadequate treatment facilities. Each day of a single operational upset is a violation.

6. Overflows from Stormwater Conveyance Systems (privately owned)
   a. Definitions
      i. "Overflow" means the diversion and discharge of waste streams from any portion of the wastewater conveyance system through a designed overflow device or structure, other than discharges to the wastewater treatment facility.
      ii. "Severe property damage" means substantial physical damage to property, damage to the conveyance system which causes it to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of an overflow.
      iii. "Uncontrolled overflow" means the diversion of waste streams other than through a designed overflow device or structure.
   b. Prohibition of overflows. Overflows are prohibited unless:
      i. Overflows were unavoidable to prevent an uncontrolled overflow, loss of life, personal injury, or severe property damage;
      ii. There were no feasible alternatives to the overflows, such as the use of auxiliary conveyance systems, or maximization of conveyance system storage; and
      iii. The overflows are the result of an upset as defined in General Condition B.4 and meeting all requirements of this condition.
   c. Uncontrolled overflows are prohibited where wastewater is likely to escape or be carried into the waters of the State by any means.
   d. Reporting required. Unless otherwise specified in writing by the department, all overflows and uncontrolled overflows must be reported orally to the department within 24 hours from the time the permit registrant becomes aware of the overflow. Reporting procedures are described in more detail in General Condition D.5.

7. Public Notification of Effluent Violation or Overflow
   If effluent limitations specified in this permit are exceeded or an overflow occurs, upon request by the department, the permit registrant must take such steps as are necessary to alert the public about the extent and nature of the discharge. Such steps may include, but are not limited to, posting of the river at access points and other places, news releases, and paid announcements on radio and television.

8. Removed Substances
   Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters must be disposed of in such a manner as to prevent any pollutant from such materials from entering waters of the state, causing nuisance conditions, or creating a public health hazard.

SECTION C. MONITORING AND RECORDS

1. Representative Sampling
   Sampling and measurements taken as required herein must be representative of the volume and nature of the monitored discharge. All samples must be taken at the monitoring points specified in this permit, and shall be taken, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water, or substance. Monitoring points may not be changed without notification to and the approval from the department.

2. Flow Measurements
   Appropriate flow measurement devices and methods consistent with accepted scientific practices must be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices must be installed, calibrated and maintained to insure that the accuracy of the

measurements is consistent with the accepted capability of that type of device. Devices selected must be capable of measuring flows with a maximum deviation of less than ± 10 percent from true discharge rates throughout the range of expected discharge volumes.

3. Monitoring Procedures
Monitoring must be conducted according to test procedures approved under 40 CFR part 136, unless other test procedures have been specified in this permit.

4. Penalties of Tampering
The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit may, upon conviction, be punished by a fine of not more than $10,000 per violation, imprisonment for not more than two years, or both. If a conviction of a person is for a violation committed after a first conviction of such person, punishment is a fine not more than $20,000 per day of violation, or by imprisonment of not more than four years, or both.

5. Reporting of Monitoring Results
Monitoring results must be summarized each month on a Discharge Monitoring Report form approved by the department. The reports must be submitted monthly and are to be mailed, delivered or otherwise transmitted by the 15th day of the following month unless specifically approved otherwise in Schedule B of this permit.

6. Additional Monitoring by the Permit registrant
If the permit registrant monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 part CFR part 136 or as specified in this permit, the results of this monitoring must be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report. Such increased frequency must also be indicated. For a pollutant parameter that may be sampled more than once per day (e.g., Total Chlorine Residual), only the average daily value must be recorded unless otherwise specified in this permit.

7. Averaging of Measurements
Calculations for all limitations that require averaging of measurements must utilize an arithmetic mean, except for bacteria which shall be averaged as specified in this permit.

8. Retention of Records
The permit registrant must retain records of all monitoring information, including: all calibration, maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the department at any time.

9. Records Contents
Records of monitoring information must include:
   a. The date, exact place, time, and methods of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

10. Inspection and Entry
The permit registrant must allow the department or an authorized representative upon the presentation of credentials to:
   a. Enter upon the permit registrant's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
   b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
   c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit, and
   d. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by state law, any substances or parameters at any location.

SECTION D. REPORTING REQUIREMENTS

1. Planned Changes
The permit registrant must comply with OAR chapter 340, division 52, "Review of Plans and Specifications" and 40 CFR §122.41(l)(1). Except where exempted under OAR chapter 340, division 52, no construction, installation, or modification involving disposal systems, treatment works, sewerage systems, or common sewers may be commenced until the plans and specifications are submitted to and approved by the department. The permit registrant must give notice to the department as soon as possible of any planned physical alternations or additions to the permitted facility.

2. Anticipated Noncompliance
The permit registrant must give advance notice to the department of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

3. Transfers
This permit may be transferred to a new permit registrant provided the transferee acquires a property interest in the permitted activity and agrees in writing to fully comply with all the terms and conditions of the permit and the rules of the Commission. No permit may be transferred to a third party without prior written approval from the department. The department may require modification, revocation, and reissuance of the permit to change the name of the permit registrant and incorporate such other requirements as may be necessary. The permit registrant must notify the department when a transfer of property interest takes place.

4. Compliance Schedule
Reports of compliance or noncompliance with, or any progress reports on interim and final requirements contained in any compliance schedule of this permit must be submitted no later than 14 days following each schedule date. Any reports of noncompliance must include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirements.

5. Twenty-Four Hour Reporting
The permit registrant must report any noncompliance that may endanger health or the environment. Any information must be provided orally (by telephone) within 24 hours, unless otherwise specified in this permit, from the time the permit registrant becomes aware of the circumstances. During normal business hours, the department's Regional office must be called. Outside of normal business hours, the department must be contacted at 1-800-452-0311 (Oregon Emergency Response System).

A written submission must also be provided within 5 days of the time the permit registrant becomes aware of the circumstances. Pursuant to ORS 468.959 (3) (a), if the permit registrant is establishing an affirmative defense of upset or bypass to any offense under ORS 468.922 to 468.946, delivered written notice must be made to the department or other agency with regulatory jurisdiction within 4 (four) calendar days of the time the permit registrant becomes aware of the circumstances. The written submission must contain:
   a. A description of the noncompliance and its cause;

b. The period of noncompliance, including exact dates and times;
c. The estimated time noncompliance is expected to continue if it has not been corrected;
d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and
e. Public notification steps taken, pursuant to General Condition B.7.

The following must be included as information that must be reported within 24 hours under this paragraph:
a. Any unanticipated bypass that exceeds any effluent limitation in this permit.
b. Any upset that exceeds any effluent limitation in this permit.
c. Violation of maximum daily discharge limitation for any of the pollutants listed by the department in this permit.
d. Any noncompliance that may endanger human health or the environment.

The department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

6. Other Noncompliance
The permit registrant must report all instances of noncompliance not reported under General Condition D.4 or D.5, at the time monitoring reports are submitted. The reports must contain:
a. A description of the noncompliance and its cause;
b. The period of noncompliance, including exact dates and times;
c. The estimated time noncompliance is expected to continue if it has not been corrected; and
d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

7. Duty to Provide Information
The permit registrant must furnish to the department within a reasonable time any information that the department may request to determine compliance with this permit. The permit registrant must also furnish to the department, upon request, copies of records required to be kept by this permit.

Other Information: When the permit registrant becomes aware that it has failed to submit any relevant facts or has submitted incorrect information in a permit application or any report to the department, it must promptly submit such facts or information.

8. Signatory Requirements
All applications, reports or information submitted to the department must be signed and certified in accordance with 40 CFR §122.22.

9. Falsification of Information
Under ORS 468.953, any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, is subject to a Class C felony punishable by a fine not to exceed $100,000 per violation and up to 5 years in prison. Additionally, according to 40 CFR §122.41(k)(2), any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a federal civil penalty not to exceed $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

10. Changes to Discharges of Toxic Pollutant
The permit registrant must notify the department as soon as it knows or have reason to believe of the following:
a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:

i. One hundred micrograms per liter (100 µg/l);
ii. Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR §122.21(g)(7); or
iv. The level established by the department in accordance with 40 CFR §122.44(f).

b. That any activity has occurred or will occur that would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
   i. Five hundred micrograms per liter (500 µg/l);
   ii. One milligram per liter (1 mg/l) for antimony;
   iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR §122.21(g)(7); or
   iv. The level established by the department in accordance with 40 CFR §122.44(f).

SECTION E. DEFINITIONS

1. Technology based permit effluent limitations means technology-based treatment requirements as defined in 40 CFR §125.3, and concentration and mass load effluent limitations that are based on minimum design criteria specified in OAR 340-041.
2. mg/l means milligrams per liter.
3. Grab sample means an individual discrete sample collected over a period of time not to exceed 15 minutes.
4. Month means calendar month.
5. Week means a calendar week of Sunday through Saturday.

CONFORMED- ADDED BY ADDENDUM 2

State of Oregon
Department of
Environmental
Quality

NOTICE OF TERMINATION

for NPDES General Permit to Discharge Storm Water Associated with

Construction Activity

Use this form to end permit coverage once all soil disturbance activities have been completed and final stabilization of exposed soils has occurred. **Please print in ink or type.**

I. Permittee

Legal Name	Phone No.
Company	
Mailing Address	
City	State / Zip Code
Facility/File ID (located on face page of permit)	

II. Legally Authorized Representative

(Person completing this form if different from Permittee)

Name	Phone No.
Company	
Mailing Address	
City	State / Zip Code
Title	

III. Site Location/Address

Site Name		
Street Address (or Location Description)		
Section	Township	Range
City (or nearest City)		Zip Code
County		

IV. Status of Construction Activity

- ☐ All soil disturbance activities by the permittee have been completed.
- ☐ The site has undergone final stabilization of all exposed soils through vegetation or other measures and all storm water discharges from construction activities that are authorized by this permit are eliminated.
- ☐ All temporary erosion and sediment controls have been removed and properly disposed.

Date above items were completed: _____

Certification

Please read the certification statement carefully before signing.

I certify under penalty of law that all storm water discharges associated with construction activity from this site that are authorized by this NPDES general permit have been eliminated. By submitting this Notice of Termination, I understand that I am no longer authorized to discharge storm water associated with construction activity under this general permit, and that discharging pollutants to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that submittal of this Notice of Termination does not release a permittee from liability for any violations of this permit or the Clean Water Act.

_____ Date

Signature of Legally Authorized Representative

_____

Name of Legally Authorized Representative (Type or Print)

State of Oregon Department of Environmental Quality

Instructions for Completing the Notice of Termination Form

for NPDES General Permit to Discharge Storm Water Associated with Construction Activity

This Notice of Termination Form is for a permittee that currently is assigned coverage under Oregon's NPDES general permit for the discharge of storm water associated with construction activity. Use this form to end permit coverage once all soil disturbance activities have been completed and final stabilization of exposed soils has occurred. **Please print in ink or type.**

I. Permittee

Complete as indicated. The permittee is the name of the company or person as it appears on the permit. Only the permittee or the permittee's legally authorized representative has authority to terminate permit coverage.

Note: If you are not the current permittee but should be, you need to transfer the permit. Please use the Transfer of Ownership form at http://www.deq.state.or.us/wq/wqpermit/PmtTfrAppl.pdf or contact DEQ at one of the offices listed below.

II. Legally Authorized Representative

Complete as indicated if different than the Permittee. This is the person that is completing the form and certifying that soil disturbance activities have been completed and final stabilization of exposed soils has occurred.

III. Site Address/ Location

Complete as indicated. If a street address is not yet available, enter a description of the location, including township, section, and range. Also provide the city (or nearest city) and county for the construction site.

IV. Construction Activity

Check the "boxes" to indicate that all storm water discharges associated with construction activity have been eliminated, final stabilization of the site is complete, and temporary erosion and sediment control measures have been properly disposed. Also, provide the date of completion for these activities. Your permit will not be terminated if these activities have not been completed.

Certification

This statement should be read carefully by the permittee, owner or legally authorized representative. The person signing this form must print or type their name for clarity then sign and date the document on the lines provided.

Form Submittal & For More Information

Submit this form to the appropriate regional office. There is no fee required for this action. If you have any questions, please contact one of the regional offices listed below.

DEQ Northwest Region	DEQ Western Region	DEQ Eastern Region
2020 SW 4th Ave., Suite 400	750 Front St. NE, Suite 120	700 SE Emigrant, Suite 330
Portland, OR 97201-4987	Salem, OR 97301-1039	Pendleton, OR 97801
(503) 229-5263 or 1-800-452-4011	(503) 378-8240 or 1-800-349-7677	(541) 276-4063 or 1-800-452-4011

For more information on these BMPs including engineering and design guidelines: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm.

1200-C Permit ESCP Best Management Practices (BMPs)
BEFORE CONSTRUCTION:
Protect (by fencing or other means) Critical Riparian Areas, Trees, and Vegetation
Provide Vegetative Buffer Zones
Pre-Construction Personnel Meeting with Inspector
DURING CONSTRUCTION
Wet Weather BMPs
Construction excavation and bare ground activities avoid or minimize on slopes greater than five (5) percent during the period of October 1 to May 31.
Stabilize soils at end of shift, weekend and holiday
Runoff Controls.
Slope Drains
Energy Dissipaters
Run-on Diversion
Temporary Diversion Dikes
Grass-lined Channel (Turf Reinforcement Mats)
Trench Drains
Drop Inlets
Check Dams
Erosion Prevention Methods
o ***Clearing and Grading Practices.***
Top-soiling
Temporary Seeding and Planting
Permanent Seeding and Planting
Mycorrhizae/ Biofertilizers
Mulches
Compost Blankets
Erosion Control Blankets and Mats
Soil Binders
Soil Tackifiers
Sodding Vegetative Buffer Strips
Protection of Trees with Protective Construction Fences.
o ***Wind Erosion/Dust Control.***
Clearing and Grading Phased
o ***Vegetative Erosion Control Practices.***
Preserve Existing Vegetation
Re-vegetate Open Areas Before and After Grading or Construction
o ***Biotechnical Erosion Control Measures.***
Live Staking (stabilization practice)
Live Fascines & Brush Wattles (stabilization practice)
Stabilization Mats (stabilization practice)
Pole Planting (stream bank stabilization)
Brush Box (stream bank stabilization)
Fascines with Sub-drains (stream bank stabilization)
Live Pole Drains (stream bank stabilization) (may have to be removed for stabilization)
Brush Packing (stream bank stabilization)
Live Gully Fill Repair (stream bank stabilization)
Vegetation Seed Mix % of each seed used in mix

1200-C Permit ESCP Best Management Practices (BMPs)
Sediment Controls.
o ***Peripheral Erosion and Sediment Controls***
Sediment Controls Along Site Perimeter and All Operational/Active Internal Storm Drain Inlets at All Times
o ***Erosion Control Practices***
Sediment Fencing
Sand Bag Barrier
Gravel Bag Berm
Earth Dikes (Stabilized)
Drainage Swales
Check Dams
Subsurface Drains Which Daylight to the Surface
Pipe Slope Drains
Rock Outlet Protection
Sediment Trap
Rock & Brush Filters (stream bank stabilization)
Compost Berm/ Compost Sock
Fiber Rolls/Straw Wattles
Storm Drain Inlet Protection
Temporary or Permanent Sedimentation Basins
o ***Reducing Sediment Tracking***
Graveled Entrances, Exits, & Parking Areas
Paved Entrances, Exits, & Parking Areas
Construction Entrances
All Unpaved Roads Onsite Graveled or Other Effective BMPs
Tire Wash
Concrete Truck Washout
Dewatering Treatment Procedure
Trucking Saturated Soils Offsite Must be Water-Tight Trucks or Loads Drained On-site
Non-Stormwater Pollution Controls.
o ***Pollution Prevention.***
Dewatering and Ponded Water Management
Paving Operations Controls
Temporary Equipment Bridge
No Illicit Connection
No Illegal Discharge
o ***Stockpile Erosion and Sediment Control Practices***
At End of Each Workday Soil Stockpiles Stabilized
Diversion of Uncontaminated Flows Around Stockpiles
Stockpile Sediment Fencing
Covering of Stockpiles
o ***Solid Waste and Hazardous Materials Management***
Reuse and Recycling Construction Wastes
Proper Storage, Application, and Disposal of Toxic or Other Hazardous Materials
Written Spill Prevention Plan and Response Procedures
Employee Training on Spill Prevention and Proper Disposal Procedures
Regular Maintenance Schedule for Vehicles and Machinery
Material Delivery and Storage Controls, Training and Signage, Material Use, Covered Storage Areas for Waste and Supplies

1200-C Permit ESCP Best Management Practices (BMPs)
State and Federal Regulations and Approvals are Met in Management of Hazardous Wastes, Used Oils, Contaminated Soils, Concrete Management, Sanitary Waste Management, Liquid Waste Management, or Other Toxic Substances
Inspection and Maintenance.
BMPs Must be Inspected Before, During, and After Significant Storm Events
During Grading and Construction Stormwater Pollution Control BMPs Must be Maintained
Procedures for Maintenance and Repair of BMPs must be Establish and Promptly Implemented
o ***General Site Maintenance.***
Significant Amounts of Sediment (as defined in the permit) that Leave the Site Must be Cleaned-up within 24 Hours and Placed Back on the Site and Stabilized or Disposed of Properly
Source(s) of Sediment Must be Controlled to Prevent Continued Discharge within 24 hours
Any Instream Clean-up of Sediment must be Preformed According to Requirements and Timelines set by the Oregon Department of State Lands
Vacuuming or Dry Sweeping Must be Used to Clean-up Released Sediments and not be Intentionally Washed into Storm Sewers or Drainage Ways
Fertilizers Application Rates Must Follow Manufacturer's Guidelines to Minimize Nutrients Discharging to Surface Waters
o ***Maintenance of Erosion and Sediment Controls***
Trapped Sediment Must be Removed from a Sediment Fence Before it Reaches One Third of the Above Ground Fence Height
Other Sediment Barriers (e.g., Biobags), Sediment Must be Removed Before it Reaches Two Inches of Accumulation in any Area Above the Sediment Barrier(s)
For Catch Basin Protection and Sediment Basins, Cleaning Must Occur when Sediment Retention Capacity has been Reduced by Fifty Percent
o ***Stormwater Treatment System Requirement.***
Operation and Maintenance Plan Must be Submitted to DEQ for Approval and Implemented Before Start-up of a Stormwater Treatment System (e.g., Electro-coagulation, Chemical Flocculation, Filtration, etc.) for Sediment Removal
Monitoring Requirements
Additional BMP Requirements During Inactive Periods
All Construction Activities that Cease for Thirty (30) Days or More, the Entire Site Must be Stabilized Using Vegetation or a Heavy Mulch Layer, Temporary Seeding, or Another Method that does not Require Germination to Control Erosion
All Construction Activities that Cease for Fifteen (15) Days or More, On Any Significant Portion of the Site, Temporary Covering with Straw or Compost Mulch or Other Covering that is Tackified to Prevent Soil or Wind Erosion Must Occur Until Work Resumes
AFTER CONSTRUCTION
Required Actions Prior to Termination of Permit Registration
Construction Materials, Waste, Sediment, and Temporary Erosion and Sediment Controls have been Removed and Disposed of Properly
All Soil Disturbance Activities by the Permittee have been Completed and all Stormwater Discharges are Eliminated
All Disturbed or Exposed Areas of the Site Must be Fully Stabilized with Established Vegetation