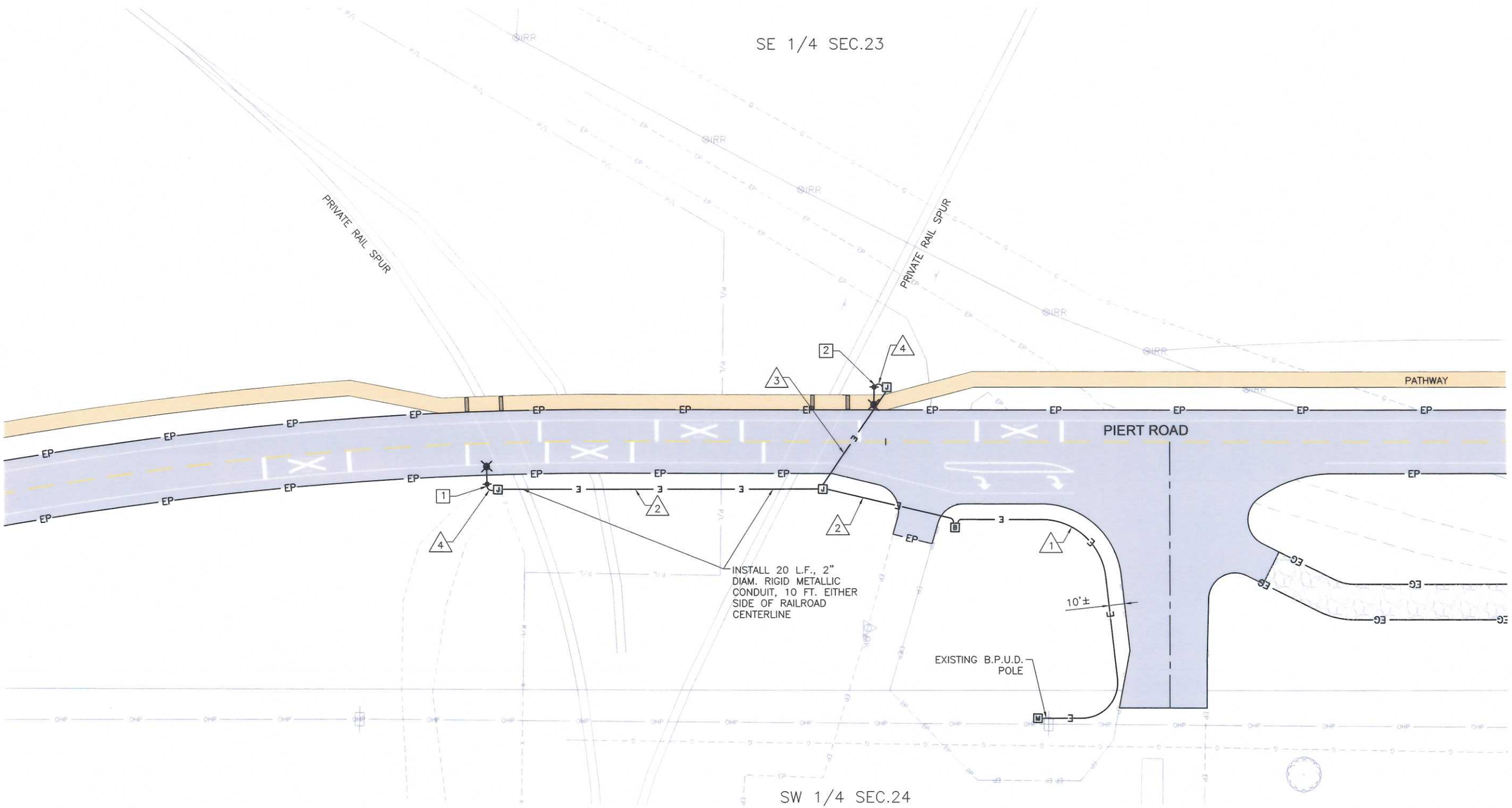
TOWNSHIP 8 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN



LEGEND:

J	JUNCTION BOX TYPE 1 PER STD. PLAN J-40.10-02
	LIGHT STANDARD WITH TYPE 2 MAST ARM AND LUMINAIRE
E	ILLUMINATION SYSTEM CONDUCTORS AND 2" CONDUIT
B	SERVICE CABINET TYPE B MODIFIED WITH PHOTOELECTRIC CONTROL PER WSDOT STD PLAN J-3b OR EQUAL
M	METER POLE SERVICE-SINGLE PHASE
#	QUANTITY TABULATION NOTE
#	STRUCTURE NOTE

LUMINAIRE SCHEDULE

LUMINAIRE & POLE NO.	STATION	DISTANCE FROM ℄	MOUNTING HEIGHT	BASE TYPE	MAST ARM LENGTH	WATTS
1	P 613+75.00	23' LT.	35'	SLIP	16'	250
2	P 615+85.00	31' LT.	35'	SLIP	16'	250

WIRING SCHEDULE

WIRE RUN	RACEWAY CONDUIT	# 10 ILLUM	3/0 POWER
1	2" SCH. 80		3
2	2" SCH. 80	2	
3	2" SCH. 80	2	
	2" SCH. 80 SPARE		
4	1" SCH. 80	2	

NOTE: ALL NEW CONDUIT SHALL CONTAIN A GROUND WIRE PER STANDARD PLANS.

CONSTRUCTION NOTES:

1. COORDINATE METER POLE SERVICE LOCATION WITH BENTON PUD
2. ALL ILLUMINATION SYSTEM EQUIPMENT MUST BE LOCATED A MINIMUM OF 18" FROM TRACK CENTERLINE, INCLUDING JUNCTION BOXES AND LUMINAIRES
3. LUMINAIRE SHALL BE 250 WATT HPS TYPE III.
4. LIGHT STANDARD BASE DETAIL SHALL CONFORM TO STANDARD PLAN J-28.40-01.
5. METER POLE SERVICE-SINGLE PHASE SHALL CONFORM TO B.P.U.D. REQUIREMENTS.
6. THE DISCONNECT AT LIGHT STANDARD BASE SHALL BE IN ACCORDANCE WITH SECTION 9-29.7 OF THE STANDARD SPECIFICATIONS.
7. ALL CONDUIT SHALL BE 2 INCH DIAMETER SCH. 80, EXCEPT WHERE NOTED.

0 30 60

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PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

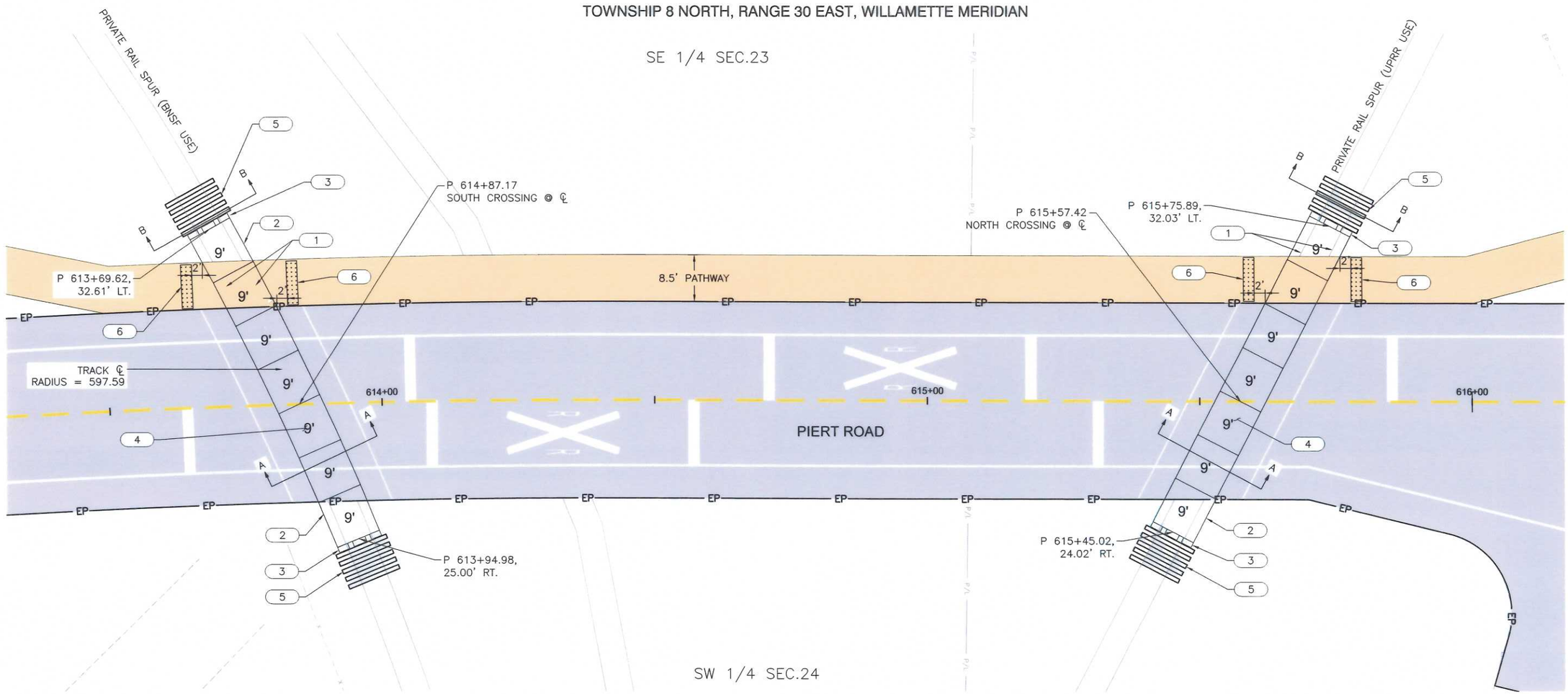
ILLUMINATION PLAN

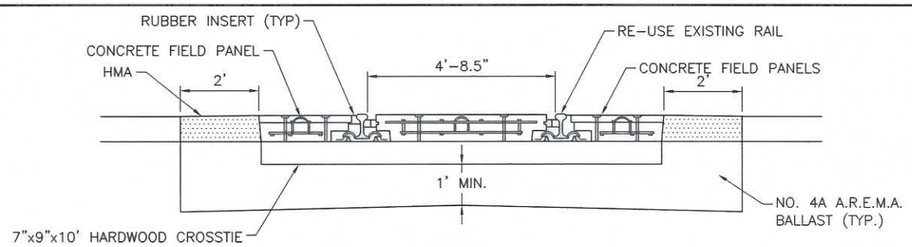
FILE: 3004051_C210
JUB PROJ. #: 30-04-051
DRAWN BY: STT
DESIGN BY: TAM
CHECKED BY: CSE
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 3/23/2012

SHEET NUMBER:
C-209

Plot Date:3/29/2012 9:42 AM Plotted By: Mary M. Garske
Date Created:5/5/2011 F:\PROJECT\30-04-051 - PIERT ROAD EXTENSION\-01 DESIGN\CAD\SHEET\3004051_C210.DWG

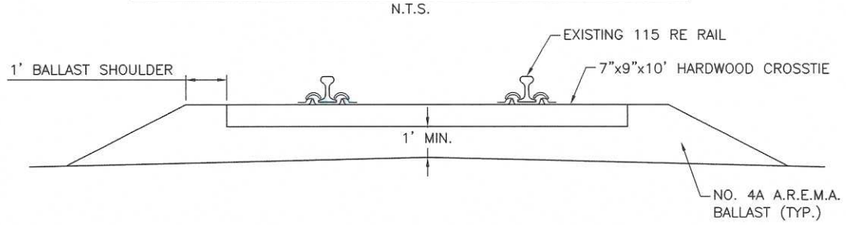
TOWNSHIP 8 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN





SECTION A-A TYPICAL RAILROAD SECTION AT CROSSING

N.T.S.



SECTION B-B TYPICAL RAILROAD SECTION OUTSIDE CROSSING

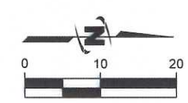
N.T.S.

KEYED NOTES:

1. P 613+69.62, 32.61' LT. TO P 613+94.98, 25.00' RT. AND P 615+45.12, 24.02' RT. TO P 615+73.89, 32.03' LT. RECONSTRUCT RAILROAD TRACK. RE-USE EXISTING RAIL, INSTALL 62 NEW 10' CROSSTIES AT 18" O.C. WELD RAIL AT JOINTS WITHIN CROSSING AREA.
2. CONSTRUCT 9' CONCRETE CROSSING PANELS SET PER LOCATION SHOWN.
3. CONSTRUCT NEW END DEFLECTORS.
4. REMOVE ALL EXISTING SURFACING TO SUBGRADE. PLACE AND COMPACT RAILROAD BALLAST, TYP. BOTH SIDES OF TRACKS. SEE DETAIL
5. BOX ANCHOR LAST 5 NEW CROSSTIES AT EVERY TIE.
6. CONSTRUCT 16 SF (8'x2') OF DETECTABLE WARNING SURFACE 2' FROM NEAREST EDGE OF CONCRETE CROSSING PANELS.

CONSTRUCTION NOTES:

1. THE JOINT BETWEEN THE TWO SETS OF OUTSIDE PANELS SHALL BE TACKED WELDED PER MANUFACTURERS RECOMMENDATIONS AFTER ALL PANELS HAVE BEEN SET AND ANCHORED IN PLACE.
2. COORDINATE WITH AGRIUM STAFF TO ENSURE ALL RAIL ELEMENTS, TRACK GAUGE AND WOOD TIES ARE ACCEPTABLE AND READY FOR PANEL PLACEMENT. TIES THAT ARE TWISTED OR NOT SET FLAT MUST BE ADZED OR REPLACED.
3. TIES MUST BE PLACED 18" CENTER TO CENTER FOR PROPER INSTALLATION. RAILS SHALL BE WELDED, WITH ALL WELDS GROUND SMOOTH TO AVOID INTERFERING WITH THE PANELS.
4. ANY RUBBER RAILGUARD ELEMENTS DAMAGED BY CARELESS REMOVAL AND HANDLING WILL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE COUNTY.
5. END DEFLECTORS WILL BE REQUIRED FOR THE ENDS OF EACH CROSSING. ALL PER MANUFACTURERS RECOMMENDATIONS.
6. COORDINATE WITH AGRIUM STAFF ON RAIL SPUR SHUTDOWNS, DURATION, WORK WINDOWS AND DELIVERY SCHEDULES. SEE SPECIAL PROVISIONS.



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PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

RAILROAD CROSSING PLAN

FILE: 3004051_C211
JUB PROJ. #: 30-04-051
DRAWN BY: STT
DESIGN BY: TAM
CHECKED BY: STT
ONE INCH
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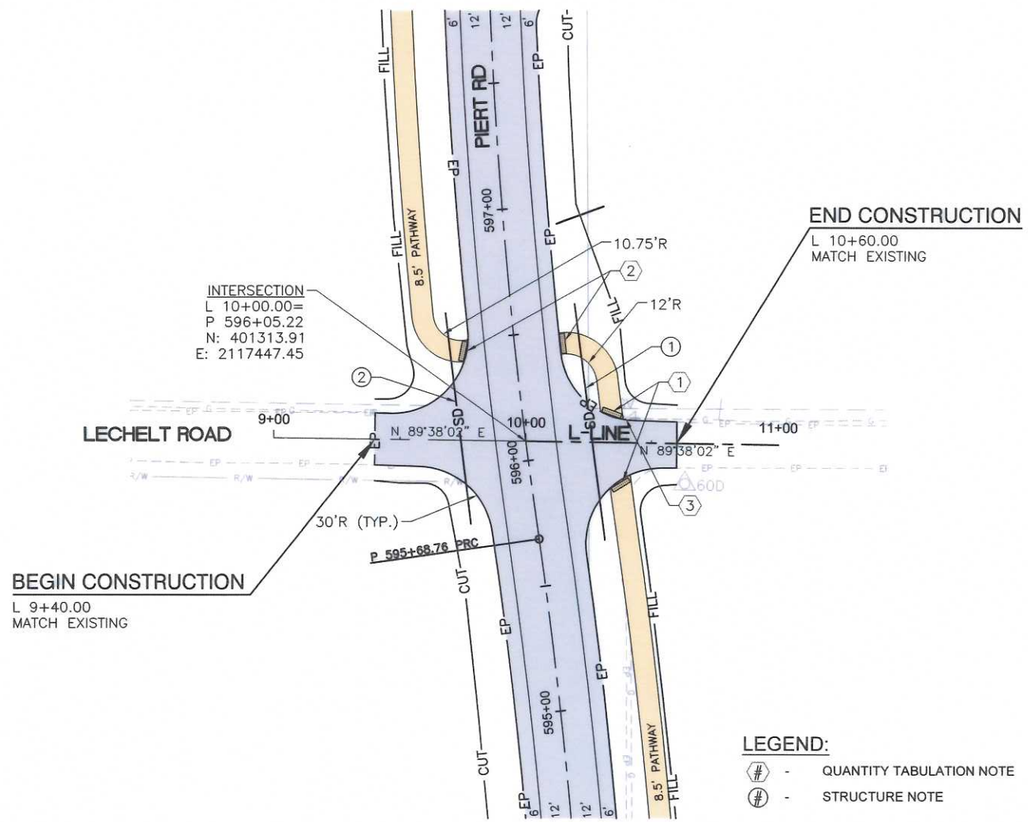
LAST UPDATED: 3/22/2012

SHEET NUMBER:
C-210

Plot Date: 3/29/2012 9:37 AM Plotted By: Mary M. Gamble
Date Created: 6/28/2011 F:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION\01 DESIGN\CAD\SHEET\3004051_C211.DWG

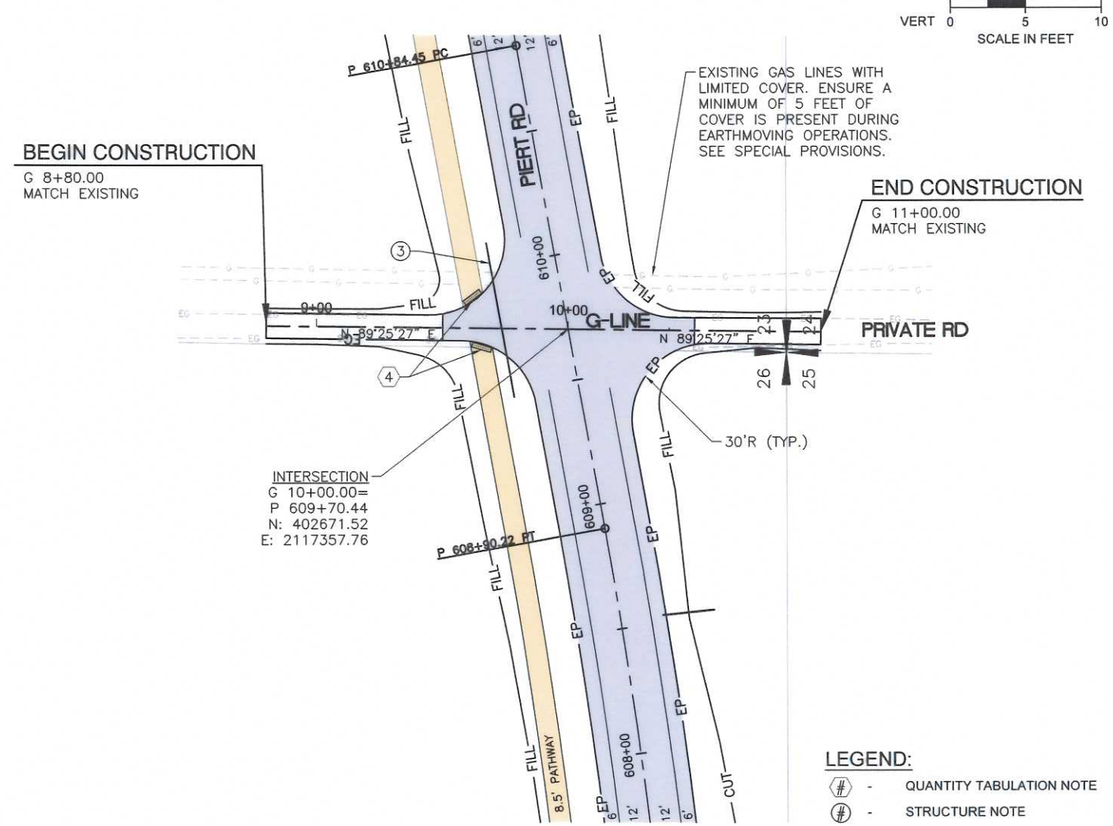
TOWNSHIP 8 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN

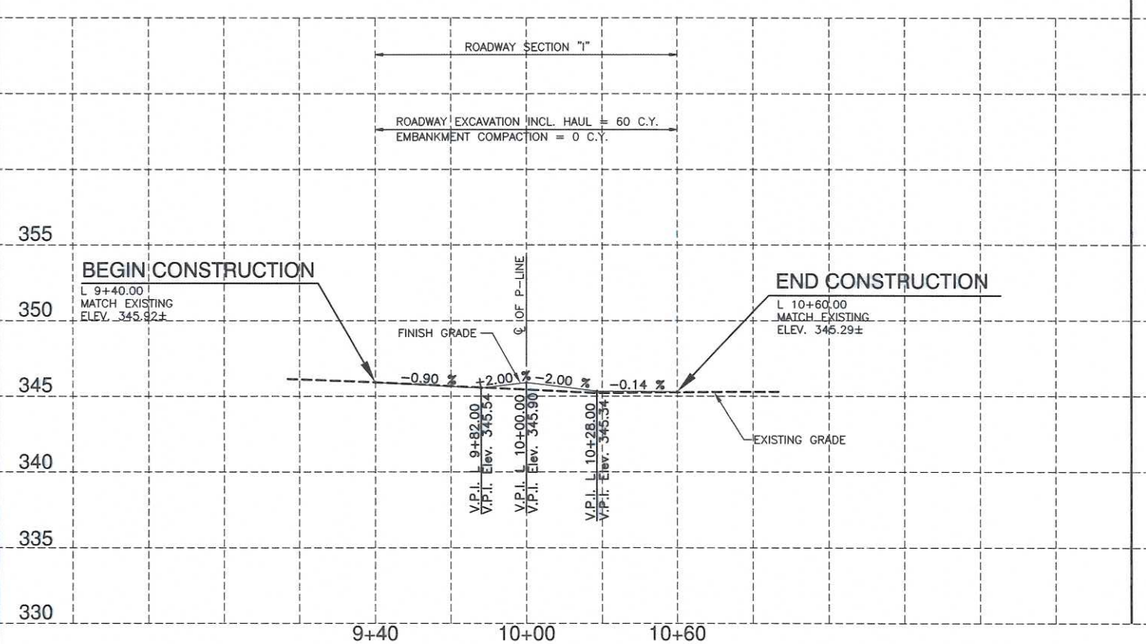
NE 1/4 SEC. 26

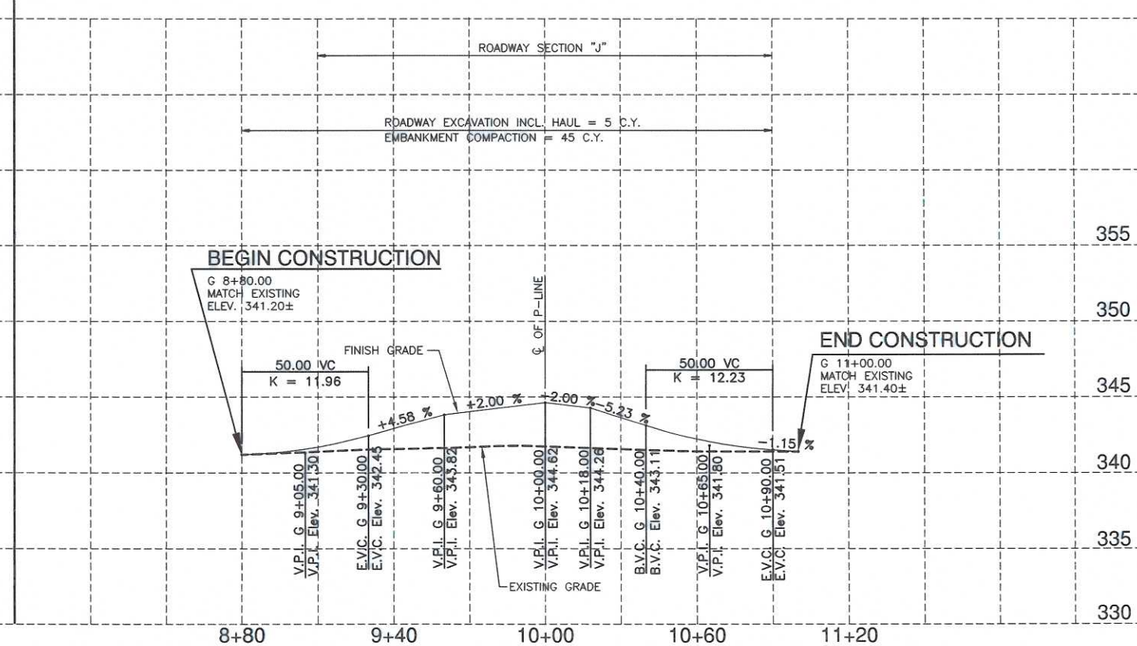


TOWNSHIP 8 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN

NE 1/4 SEC. 26







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PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

PLAN & PROFILE - INTERSECTION PLAN
P-LINE (PIERT RD) & LECHELT RD
P-LINE (PIERT RD) & PRIVATE ROAD

FILE: 3004051_C212
JUB PROJ. #: 30-04-051
DRAWN BY: STT
DESIGN BY: TAM
CHECKED BY: CSE
ONE INCH
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LAST UPDATED: 3/23/2012

SHEET NUMBER:
C-211

Plot Date:3/29/2012 9:35 AM Plotted By: Mary M. Garaike
Date Created:11/2/2012 F:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION-31 DESIGN\CAD\SHEETS\3004051_C212.DWG

TOWNSHIP 8 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN

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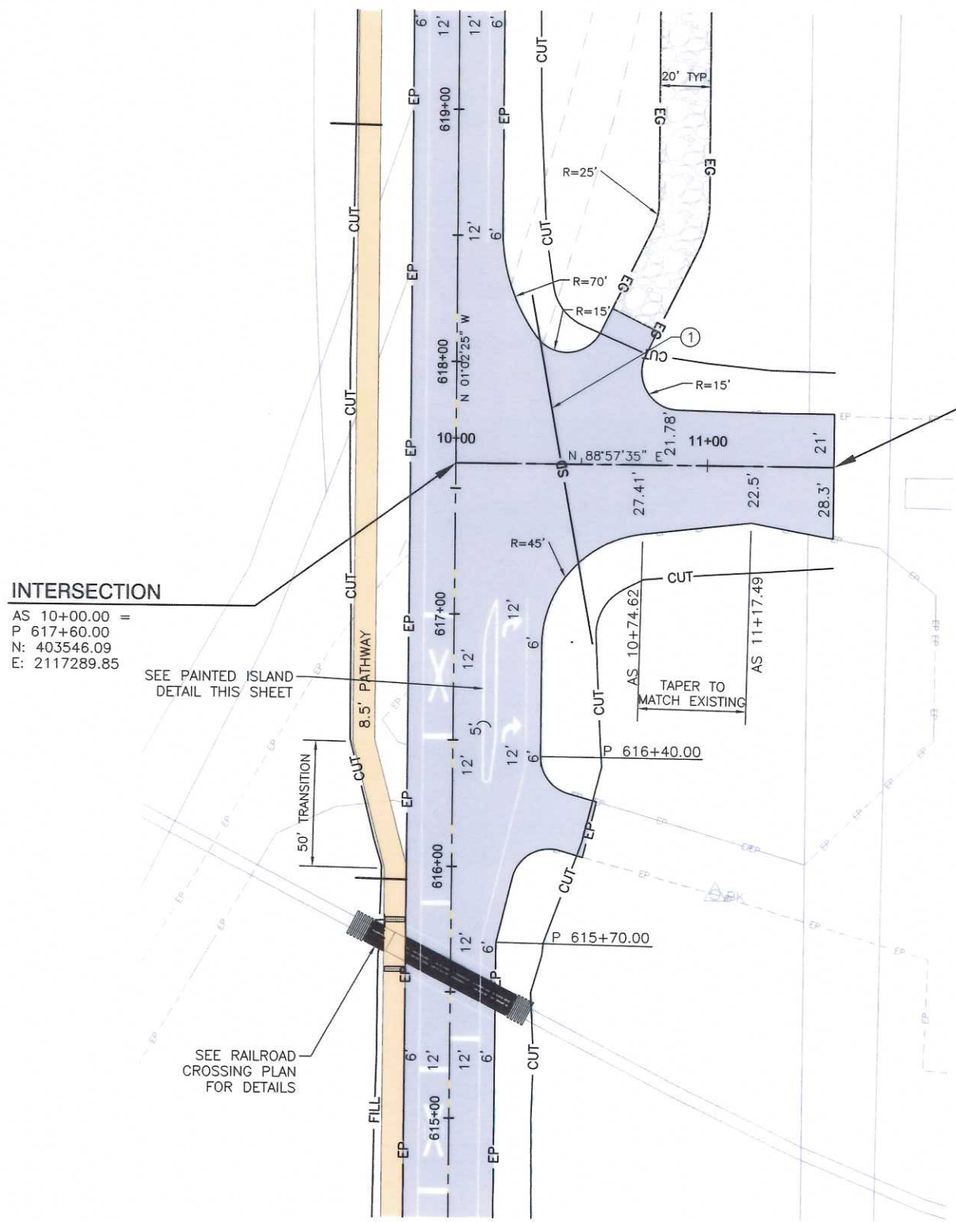
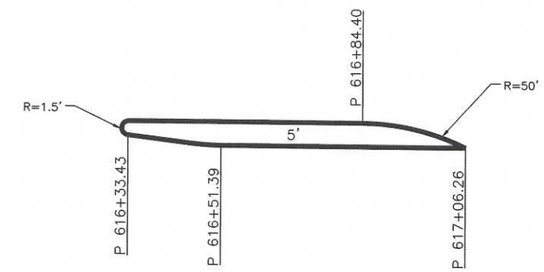
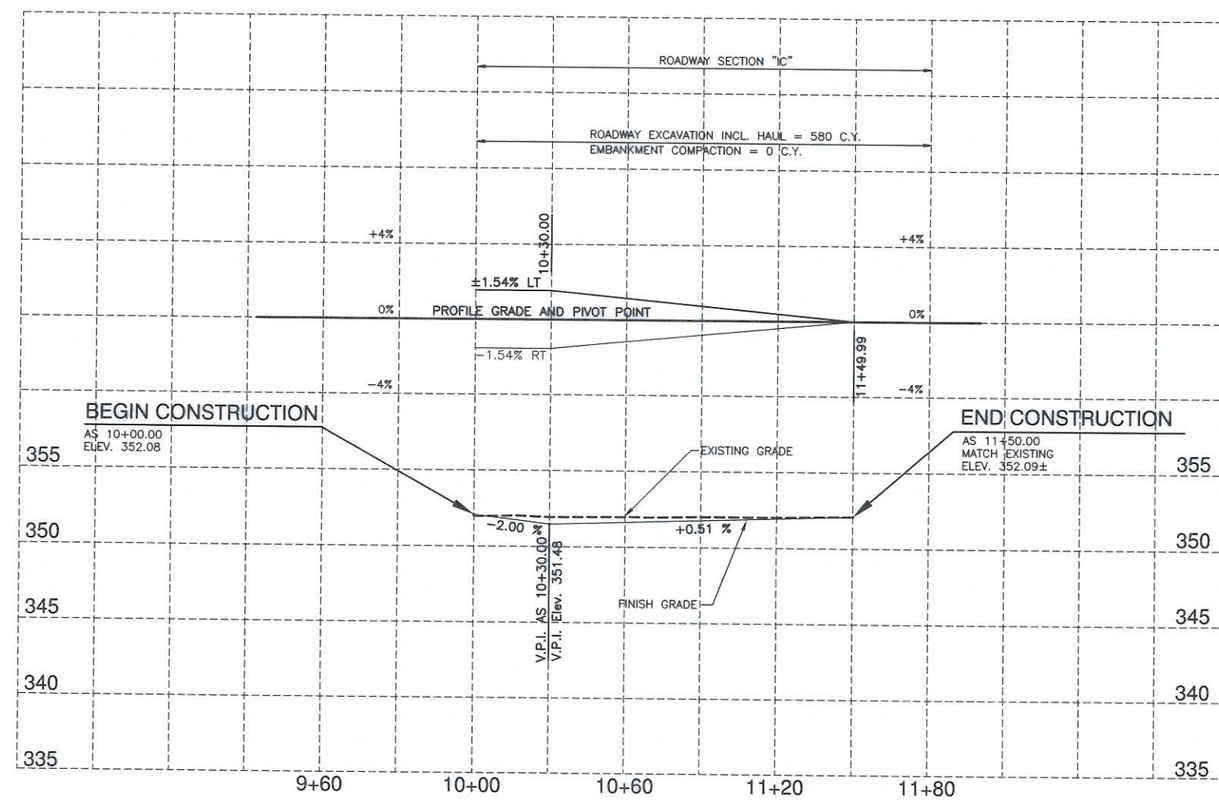




PAINTED ISLAND DETAIL

N.T.S.



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(#) - QUANTITY TABULATION NOTE

(#) - STRUCTURE NOTE

HORZ 0 30 60

VERT 0 5 10

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PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

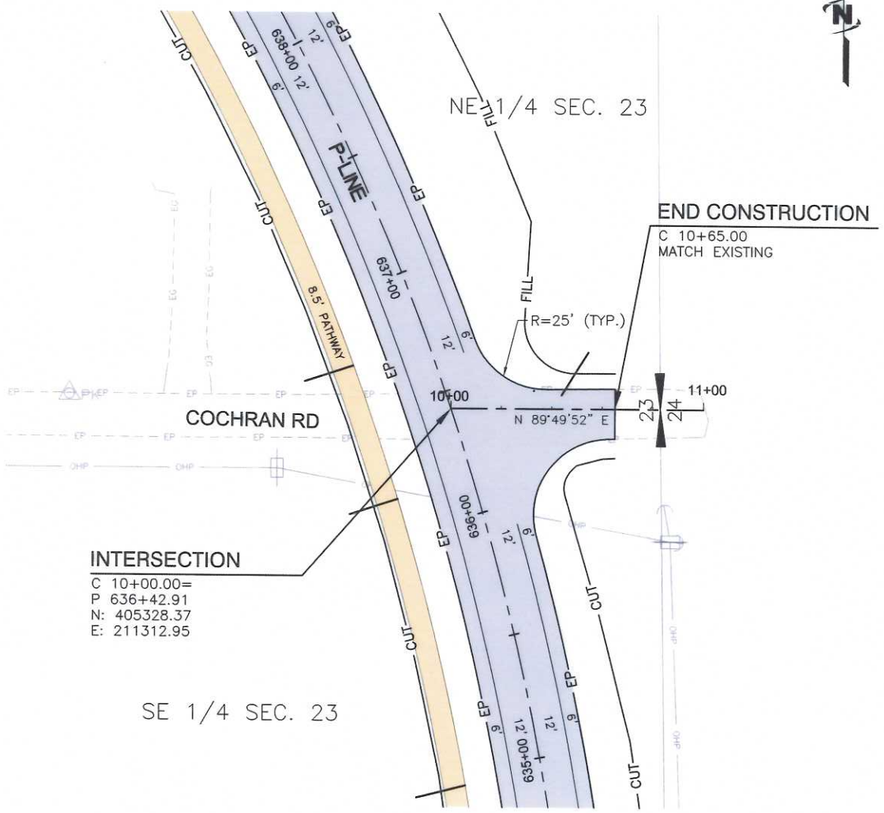
PLAN & PROFILE - INTERSECTION PLAN
P-LINE (PIERT RD) & AGRIUM SOUTH ENTRANCE

FILE : 3004051_C213
JUB PROJ. # : 30-04-051
DRAWN BY: STT
DESIGN BY: TAM
CHECKED BY: CSE
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 3/22/2012

SHEET NUMBER:
C-212

Plot Date:3/29/2012 9:33 AM Plotted By: Mary M. Ganske
Date Created:11/2/2012 F:\PROJECT\30-04-051 - PIERT ROAD EXTENSION\01 DESIGN\CAD\SHEET\3004051_C213.DWG

TOWNSHIP 8 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN



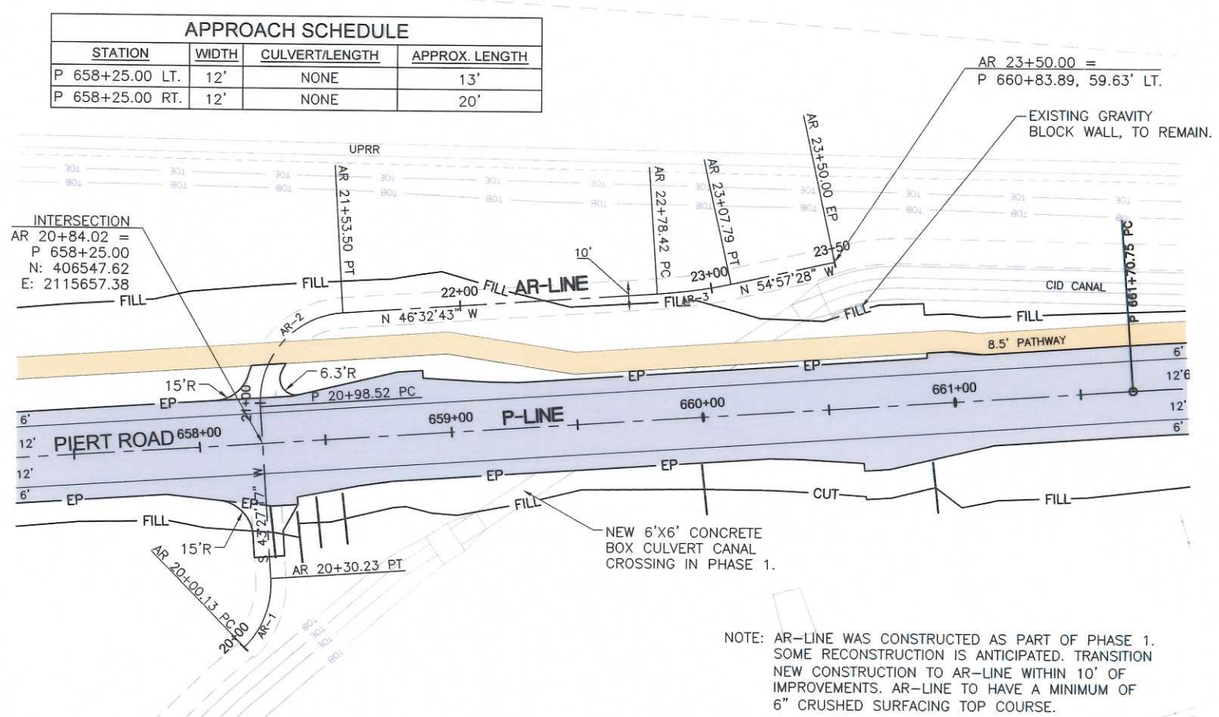
ALIGNMENT CURVE DATA							
CURVE NO.	PI STA.	DEGREE	DELTA	LENGTH	RADIUS	TANGENT	CHORD BEARING
AR-1	20+16.19	163°42'08"	-49°16'27"	30.10'	35.00'	16.05'	S68°05'31"W
AR-2	21+33.52	163°42'08"	90°00'01"	54.98'	35.00'	35.00'	S88°27'17"W
AR-3	22+93.13	28°38'52"	-8°24'45"	29.37'	200.00'	14.71'	N50°45'06"W

TOWNSHIP 8 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN

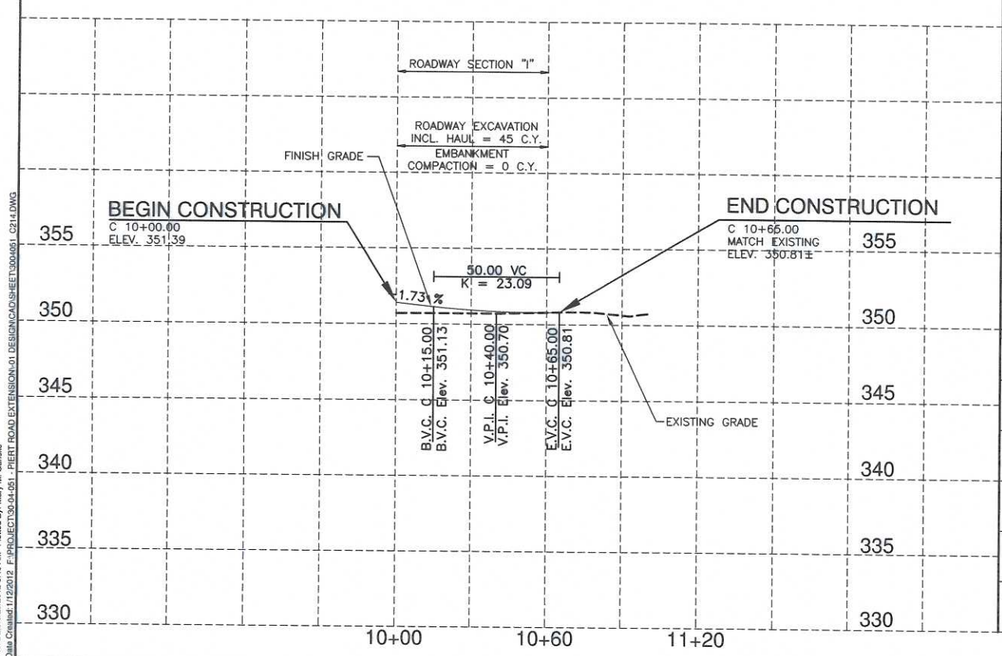
NE 1/4 SEC. 23

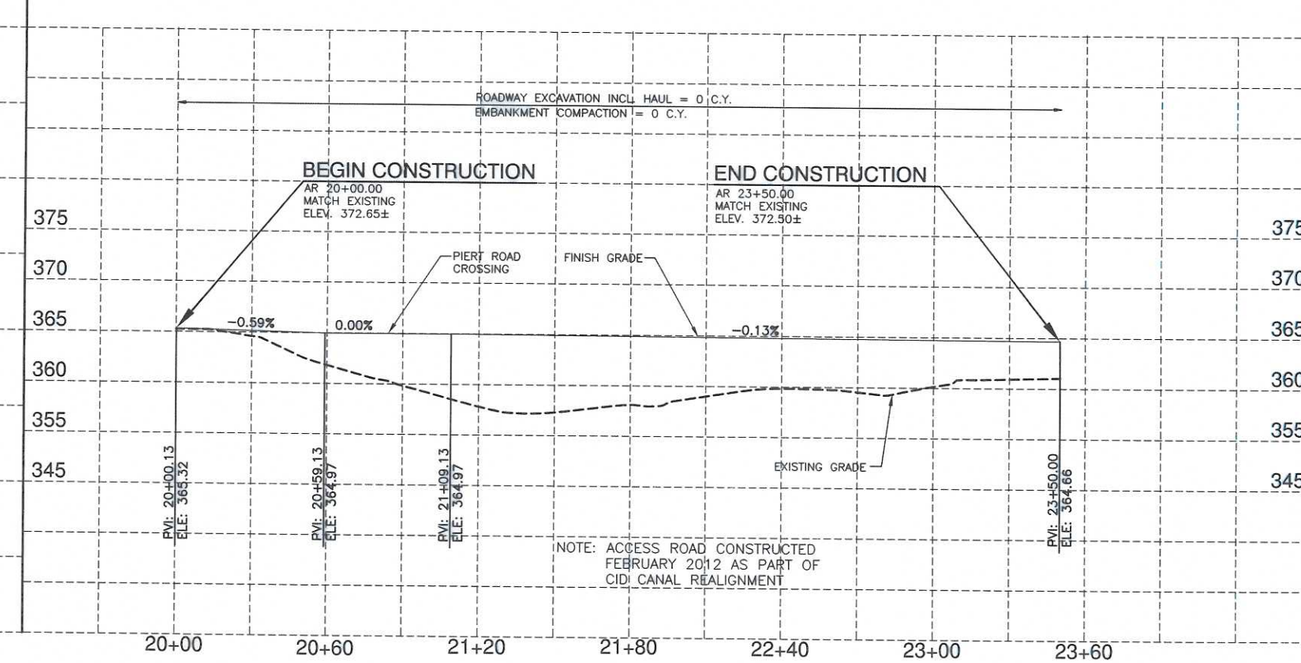
HORZ 0 30 60
VERT 0 5 10
SCALE IN FEET

APPROACH SCHEDULE			
STATION	WIDTH	CULVERT/LENGTH	APPROX. LENGTH
P 658+25.00 LT.	12'	NONE	13'
P 658+25.00 RT.	12'	NONE	20'



NOTE: AR-LINE WAS CONSTRUCTED AS PART OF PHASE 1. SOME RECONSTRUCTION IS ANTICIPATED. TRANSITION NEW CONSTRUCTION TO AR-LINE WITHIN 10' OF IMPROVEMENTS. AR-LINE TO HAVE A MINIMUM OF 6" CRUSHED SURFACING TOP COURSE.





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PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

PLAN & PROFILE - INTERSECTION PLAN
P-LINE (PIERT RD) & COCHRAN RD
P-LINE (PIERT RD) & C.I.D ACCESS ROAD

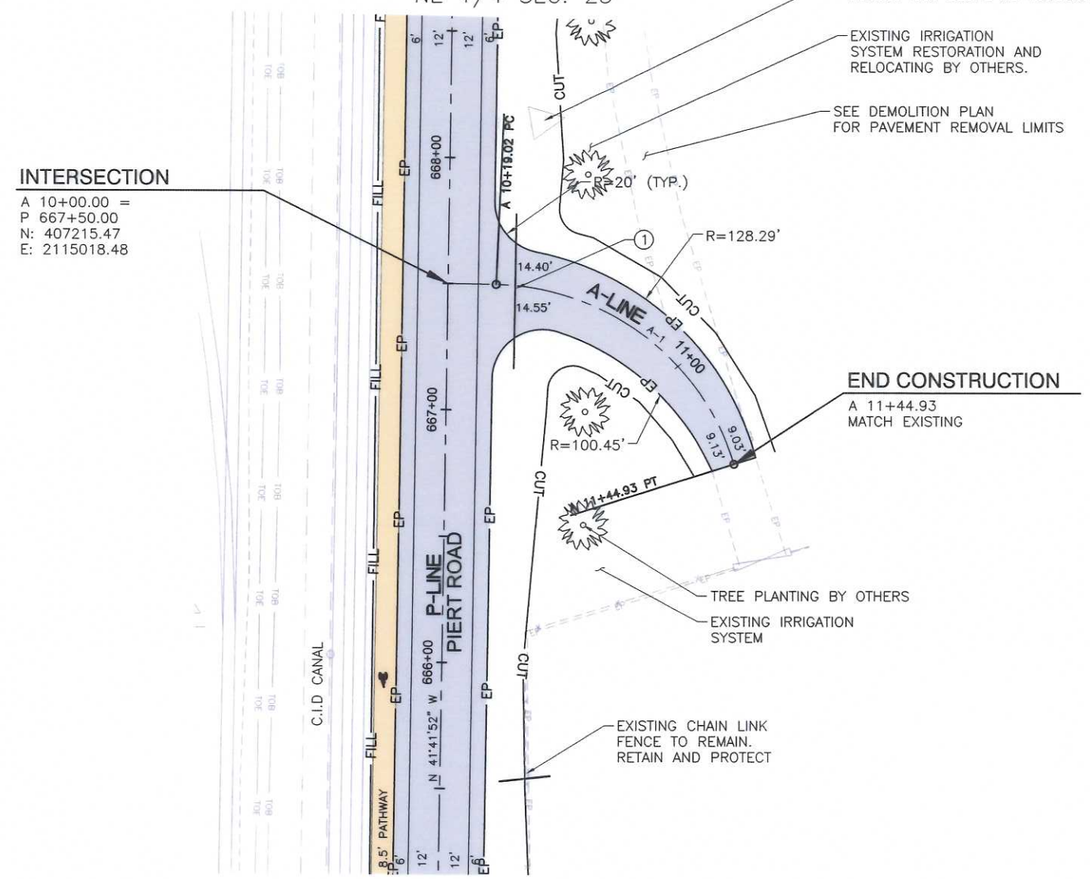
FILE: 3004051_C214
JUB PROJ. #: 30-04-051
DRAWN BY: STT
DESIGN BY: TAM
CHECKED BY: CSE
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 3/29/2012

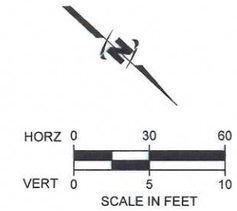
SHEET NUMBER:
C-213
27 of 38

Plot Date: 3/29/2012 9:40 AM Plotted By: Mary M. Ganske
Data Created: 1/12/2012 F:\PROJECT\30-04-051 - PIERT ROAD EXTENSION\01 DESIGN\CAD\SHEET\3004051_C214.DWG

ALIGNMENT CURVE DATA							
CURVE NO.	PI STA.	DEGREE	DELTA	LENGTH	RADIUS	TANGENT	CHORD BEARING
A-1	10+91.87	57°17'45"	72°08'41"	125.92'	100.00'	72.85'	N84°22'28"E

TOWNSHIP 8 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN
NE 1/4 SEC. 23



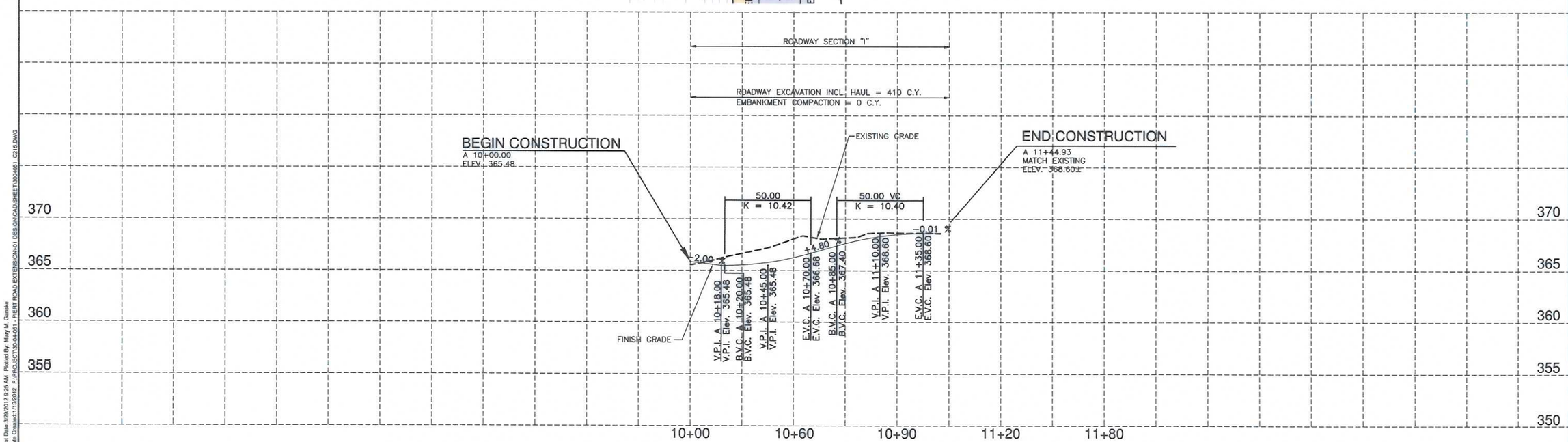


LEGEND:

(#) - QUANTITY TABULATION NOTE

(#) - STRUCTURE NOTE

NOTE: EXISTING IRRIGATION SPRINKLERS AND PIPING WILL BE RELOCATED BY OTHERS.



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PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

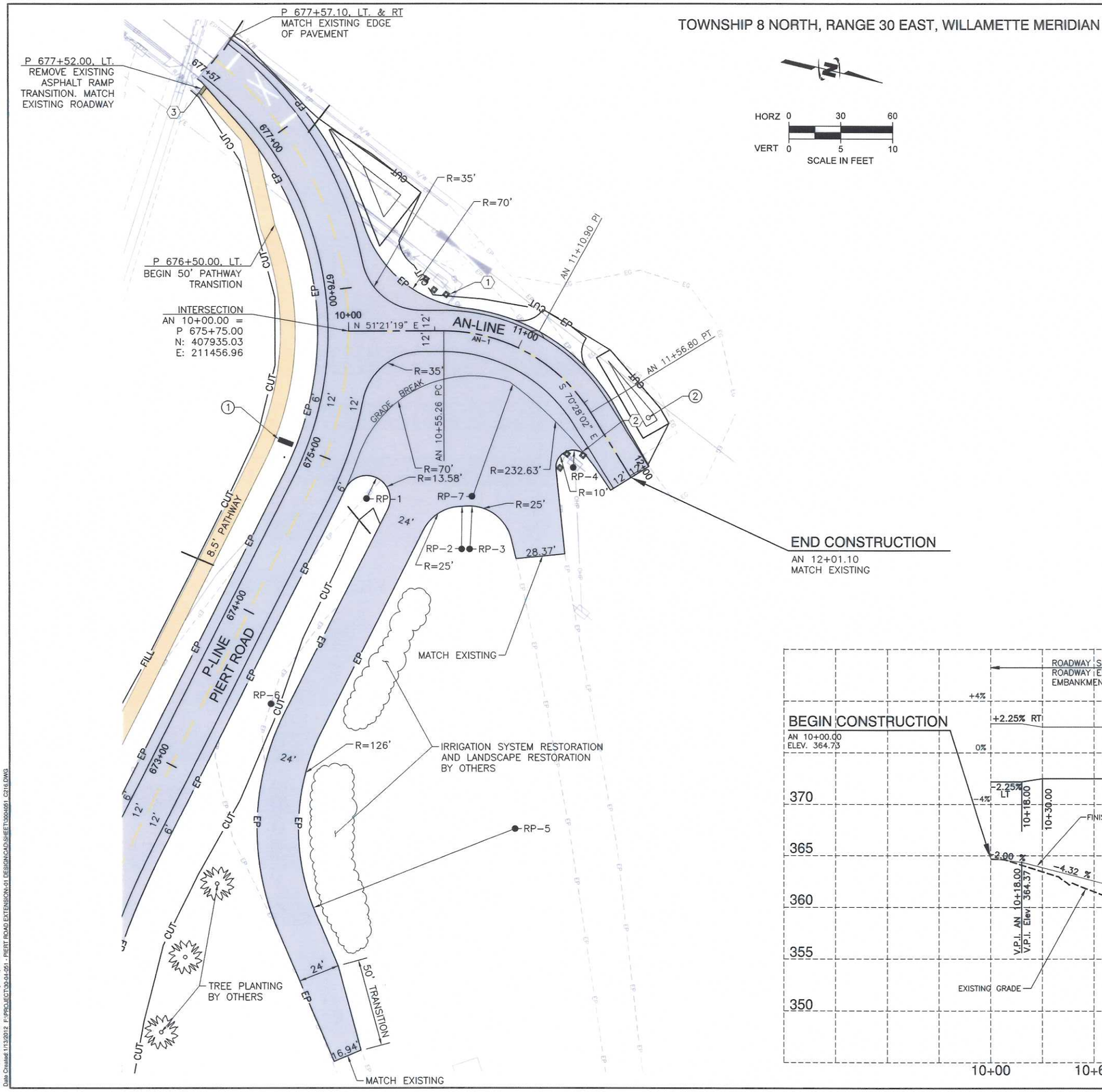
PLAN & PROFILE - INTERSECTION PLAN
P-LINE (PIERT RD) & AGRIUM SOUTH ENTRANCE (A-LINE)

FILE: 3004051 C215
JUB PROJ. # : 30-04-051
DRAWN BY: STT
DESIGN BY: TAM
CHECKED BY: CSE
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 3/22/2012

SHEET NUMBER:
C-214
28 OF 38

Plot Date:3/29/2012 9:25 AM Plotted By: Mary M. Garaike
Date Created:1/13/2012 F:\PROJECT\30-04-051 - PIERT ROAD EXTENSION-01 DESIGN\CAD\SHEET\3004051 C215.DWG

TOWNSHIP 8 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN



HORZ 0 30 60
VERT 0 5 10
SCALE IN FEET

ALIGNMENT CURVE DATA

CURVE NO.	PI STA.	DEGREE	DELTA	LENGTH	RADIUS	TANGENT	CHORD BEARING
AN-1	11+10.90	57°17'45"	58°10'39"	101.54'	100.00'	55.63'	N80°26'39"E

RADIUS POINT TABLE

POINT	NORTHING	EASTING	CURVE DESCRIPTION
RP-1	407865.36	2114725.65	
RP-2	407876.93	2114787.16	
RP-3	407879.94	2114790.57	
RP-4	407954.54	2114808.03	
RP-5	407769.26	2114912.62	126' RADIUS FOR TRUCK ACCESS
RP-6	407737.84	2114756.98	232.63' RADIUS FOR GRADE BREAK
RP-7	407904.65	2114772.80	70' RADIUS FOR GRADE BREAK

BOLLARD TYPE 2 SCHEDULE

STATION	OFFSET	COLOR
AN 11+74.74	31.99' RT.	SAFETY YELLOW
AN 11+70.01	24.36' RT.	SAFETY YELLOW
AN 11+74.83	31.96' RT.	SAFETY YELLOW
AN 10+56.39	21.24' LT.	SAFETY YELLOW
AN 10+49.72	23.97' LT.	SAFETY YELLOW
AN 10+45.03	30.19' LT.	SAFETY YELLOW

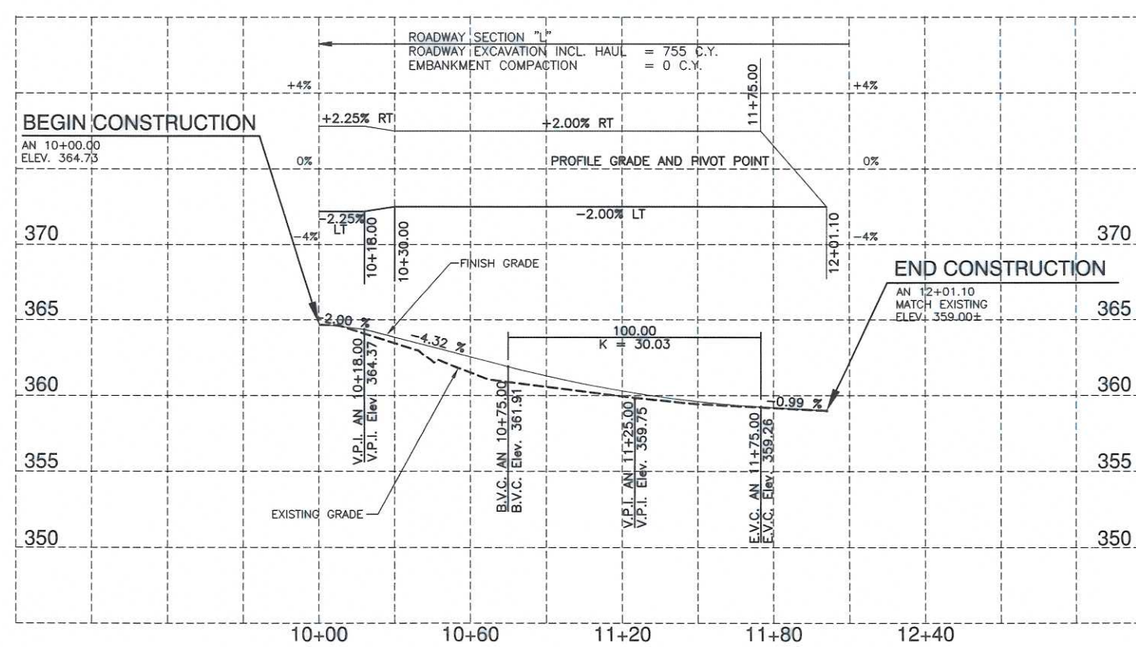
APPROACH SCHEDULE

STATION	WIDTH	CULVERT/LENGTH	APPROX. LENGTH
AN 11+14.50 RT.	30'	NONE	12.5'

LEGEND:

(#) - QUANTITY TABULATION NOTE

(#) - STRUCTURE NOTE



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PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

PLAN & PROFILE - INTERSECTION PLAN
AGRIUM SOUTH ENTRANCE & BOWLES RD

FILE: 3004051_C216
JUB PROJ. #: 30-04-051
DRAWN BY: STT
DESIGN BY: TAM
CHECKED BY: CSE
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 3/28/2012

SHEET NUMBER:
C-215
29 of 38

Plot Date:3/28/2012 9:24 AM Plotted By: Mary M. Ganske
Date Created:1/13/2012 F:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION\-01 DESIGN\CAD\SHEETS\3004051_C216.DWG