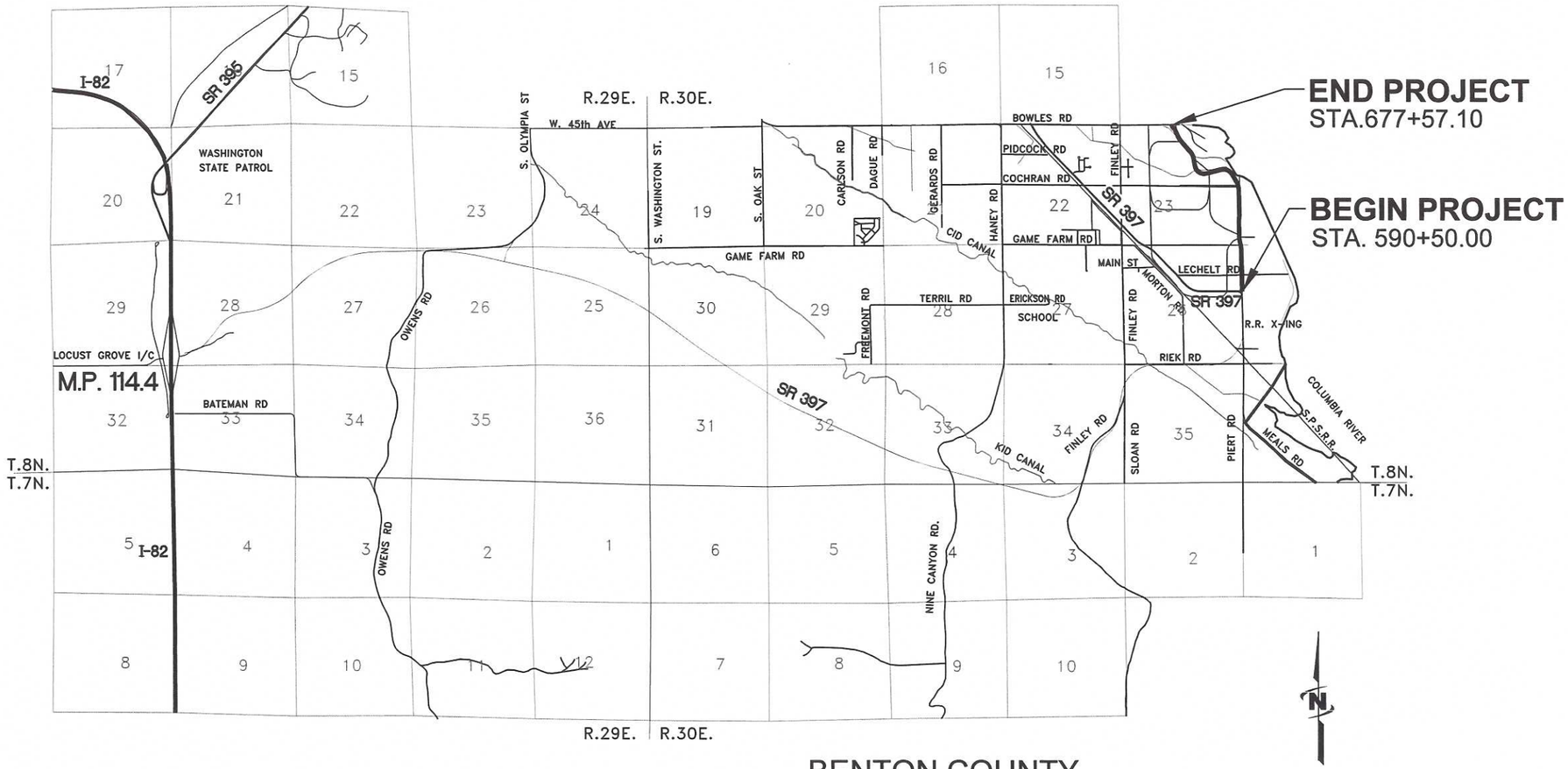
PIERT ROAD EXTENSION - CE 1619 CRP

SR 397 TO BOWLES RD.

BENTON COUNTY PUBLIC WORKS DEPARTMENT



BENTON COUNTY

MARCH 2012

APPROVED BY:

BENTON COUNTY ENGINEER — DATE 4-17-12

CHAIRMAN OF THE BOARD OF COUNTY COMMISSIONERS — DATE 4-17-12

CLERK OF THE BOARD OF COUNTY COMMISSIONERS — DATE 4-17-12

J-U-B ENGINEERS, Inc.
2810 W. Clearwater Avenue
Suite 201
Kennewick, Washington 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

Engineers • Surveyors • Planners

SHEET LIST TABLE		
SHEET NUMBER		SHEET TITLE
G-001	1 OF 38	COVER SHEET
G-002	2 OF 38	ABBREVIATIONS AND LINETYPE LEGEND
G-003	3 OF 38	SYMBOL LEGEND
G-004	4 OF 38	SUMMARY OF QUANTITIES
G-005	5 OF 38	SUMMARY OF QUANTITIES
G-006	6 OF 38	QUANTITY TABULATION - DEMOLITION & SITE PREPARATION
G-007	7 OF 38	QUANTITY TABULATION - TRAFFIC & MISC.
G-008	8 OF 38	STRUCTURE NOTES
C-101	9 OF 38	DEMOLITION PLAN
C-102	10 OF 38	DEMOLITION PLAN
C-103	11 OF 38	DEMOLITION PLAN
C-104	12 OF 38	DEMOLITION PLAN
C-105	13 OF 38	RESIDENTIAL DEMOLITION AND DISPOSAL PLAN
C-106	14 OF 38	COCHRAN ROAD CLOSURE
C-201	15 OF 38	PLAN & PROFILE STA. 589+01 TO STA. 600+00
C-202	16 OF 38	PLAN & PROFILE STA. 600+00 TO STA. 613+00
C-203	17 OF 38	PLAN & PROFILE STA. 613+00 TO STA. 626+00
C-204	18 OF 38	PLAN & PROFILE STA. 626+00 TO STA. 639+00
C-205	19 OF 38	PLAN & PROFILE STA. 639+00 TO STA. 647+00
C-206	20 OF 38	PLAN & PROFILE STA. 647+00 TO STA. 658+00
C-207	21 OF 38	PLAN & PROFILE STA. 658+00 TO STA. 671+00
C-208	22 OF 38	PLAN & PROFILE STA. 671+00 TO STA. 682+84
C-209	23 OF 38	ILLUMINATION PLAN
C-210	24 OF 38	RAILROAD CROSSING PLAN
C-211	25 OF 38	INTERSECTION PLAN - PIERT ROAD & LECHELT ROAD PIERT ROAD & PRIVATE ROAD
C-212	26 OF 38	INTERSECTION PLAN - PIERT ROAD & AGRIUM SOUTH ENTRANCE
C-213	27 OF 38	INTERSECTION PLAN - PIERT ROAD & COCHRAN ROAD PIERT ROAD & C.I.D. ACCESS ROAD
C-214	28 OF 38	INTERSECTION PLAN - PIERT ROAD & AGRIUM PARKING ENTRANCE
C-215	29 OF 38	INTERSECTION PLAN - AGRIUM ENTRANCE & BOWLES ROAD
C-301	30 OF 38	ROADWAY SECTIONS
C-302	31 OF 38	ROADWAY SECTIONS
C-303	32 OF 38	ROADWAY SECTIONS
C-401	33 OF 38	SIGNING (BY OTHERS) AND STRIPING
C-402	34 OF 38	SIGNING (BY OTHERS) AND STRIPING
C-403	35 OF 38	SIGNING (BY OTHERS) AND STRIPING
C-404	36 OF 38	SIGNING (BY OTHERS) AND STRIPING
C-405	37 OF 38	TEMPORARY TRAFFIC CONTROL PLAN
C-501	38 OF 38	STORM DRAINAGE DETAILS

Plot Date:3/26/2012 10:36 AM Plotted By: Mary M. Garske
Date Created:4/15/2011 P:\PROJECTS\0-04-051 - PIERT ROAD EXTENSION\0-01 DESIGN\CAD\SHEET\0004051_G001.DWG

ABBREVIATIONS

ABBREVIATION	TERM
ASSY.	ASSEMBLY
>	ANGLE
@	AT (MEASUREMENTS)
BLDG.	BUILDING
B.M.	BENCH MARK
BSC	BITUMINOUS SURFACE COURSE
BSW	BACK OF SIDEWALK
BVC	BEGIN VERTICAL CURVE
BW.	BOTH WAYS
C	CHANNEL
C/L	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC.	CONCRETE
CONT.	CONTINUOUS
CPLG.	COUPLING
CU. FT.	CUBIC FEET
CU. YD.	CUBIC YARD
DEG. OR °	DEGREE
DET.	DETAIL
DIA. OR ø	DIAMETER
D.I.P.	DUCTILE IRON PIPE
DIST.	DISTRIBUTION
DWG.	DRAWING
EA.	EACH
ELB.	ELBOW
ELEV.	ELEVATION
EVC	END VERTICAL CURVE
E.W.	EACH WAY
EXIST.	EXISTING
F.G.	FINISH GRADE
F.H.	FIRE HYDRANT
FLG.	FLANGE
FT OR '	FEET
G.V.	GATE VALVES
HORIZ.	HORIZONTAL
ID	INSIDE DIAMETER
IN. OR "	INCH
LB. OR #	POUND
LF	LINEAL FEET
LN.	LINEAL
MAX.	MAXIMUM
MIN.	MINIMUM
NO. OR #	NUMBER
PC	POINT OF CURVATURE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
PE	POLYETHLENE
PL	PLATE
PVC	POLYVINYL-CHLORIDE
R	RADIUS
R&R	REMOVE AND REPLACE

ABBREVIATIONS

ABBREVIATION	TERM
REM.	REMOVE
REQ'D	REQUIRED
REV.	REVISION
RP	RADIUS POINT
R/W	RIGHT-OF-WAY
S	SLOPE
SPEC.	SPECIFICATION
STA	STATION
STD	STANDARD
STL.	STEEL
ST. STL.	STAINLESS STEEL
TBC	TOP BACK OF CURB
TYP.	TYPICAL
TFC	TOP FACE OF CURB
V.P.I.	VERTICAL POINT OF INTERSECTION
W/	WITH
W/O	WITHOUT
W/REQ'D	WHERE REQUIRED

LINETYPES

DESCRIPTION	PROPOSED	EXISTING
Overhead Power, Tele, Cable TV, Gas	OHP,OHT,OHCTV,OHG	
Underground Power, Tele, Cable TV, Gas)	P,T,CTV,G	
Ditch		
Road Asphalt	EP	
Road Gravel	EG	
Road Center Line		
Major Contour	2125	
Minor Contour	2126	
Fence	X X	
Edge of Landscaping	LS	
Cut Limits	CUT	
Fill Limits	FILL	
Top of Bank	TOB	
Toe of Bank	TOE	
Property Line	P/L	
Property R/W	R/W	
Temporary Easement	T/E	
Permanent Easement	P/E	
Sanitary Sewer	SS	
Sanitary Sewer Service	SS SS SS SS SS	
Force Main	FM	
Water	W	
Water Service Line	WS WS WS WS	
Irrigation	IRR	
Storm Drain	SD	
Roof Drain Line	RD	
Silt Fence		

J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN — STATE OF WASHINGTON — 39982 — REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DATE	BY	APP
	REVISION			

USE OF DRAWINGS
THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF J-U-B ENGINEERS, INC. AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF J-U-B ENGINEERS, INC.

PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

ABBREVIATIONS AND LINETYPE LEGEND

FILE: 3004351_G002
JUB PROJ. #: 35-04-051
DRAWN BY: STT
DESIGN BY: TAM
CHECKED BY: CSE
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 2/23/2012

SHEET NUMBER:
G-002
2 OF 38

Plot Date:3/23/2012 10:34 AM Plotted By: Mary M. Garaito
Date Created:4/15/2011 F:\PROJECTS\35-04-051 - PIERT ROAD EXTENSION\01 DESIGN\CAD\SHEET\3004051 - G002.DWG

SURVEY

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
CAP (ALUMINUM)		
CAP (BRASS)		
CHISELED X		
CTRL PT GENERIC		
CTRL PT ½" REBAR	1/2" R	
CTRL PT ⅝" REBAR	5/8" RE	
CTRL PT 60D NAIL	60D	
CTRL PT HUB & TACK	HT	
CTRL PT PK NAIL	PK	
CTRL PT TEMPORARY BENCH MARK	TBM	
NAIL		
NAIL AND TAG	N/T	
NAIL (PK)	PK	
BOLT		
DRILL STEEL		
REBAR (½")		
REBAR (⅝")		
STAINLESS STEEL ROD		
IRON PIPE		
RAILROAD SPIKE		
R/W MONUMENT		
SECTION CORNER. MON.	22 15 / 21 16	
SECTION QUARTER MON.	15 / 22	
STONE		

SITE

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
BOLLARD		
BOULDER		
DRINKING FOUNTAIN		DF
FLAGPOLE		F
GATE		
MAIL BOX		M
PARKING METER		PM
POST		
SIGN		
SPOT ELEVATION		
TREE (SHRUB)		
TREE (STUMP)		
TREE (CONIFEROUS)		
TREE (DECIDUOUS)		
TEST HOLE		TH
WELL		W
WELL (MONITORING)		M

UTILITIES

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
MANHOLE (GENERIC)		
PRESSURE CLEAN OUT AT GRADE		PCO
THRUST BLOCK		
VALVE (GENERIC)		
VAULT	V	V

COMMUNICATION

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
TELE. MANHOLE	T	
TELE. PEDESTAL	T	T
TELE. POLE		
TV PEDESTAL	TV	TV
GUY WIRE		

DOMESTIC WATER

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
FIRE HYDRANT		
SPIGOT		
YARD HYDRANT		
WATER MANHOLE	W	
WATER METER		
WATER VALVE		W

ELECTRIC

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
ELEC. MANHOLE	E	
ELEC. METER	E	E
ELEC. TRANS.	E	E
GUY WIRE		
JUNCTION BOX	J	J
POWER POLE		
POWER STUB	E	E
STREET LIGHT		
TRAFFIC SIGNAL POLE		

IRRIGATION

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
IRRIGATION VALVE		IV
IRRIGATION VALVE BOX	I	I
SPRINKLER		

NATURAL GAS

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
GAS METER		G
GAS VALVE	G	G

SANITARY SEWER

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
CLEANOUT		
SEWER STUB	S	S
SS MANHOLE	S	

STORM DRAIN

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
CATCH BASIN		
DRY WELL	DW	DW
FLARE END		
GREASE TRAP		
SD MANHOLE	D	

PLAN NOTES

SYMBOL	DESCRIPTION
(#)	QUANTITY TABULATION NOTE
(#)	STRUCTURE NOTE
(#)	PLAN SHEET SPECIFIC KEYED NOTE

FITTINGS

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
BEND (11.25°)		
BEND (22.5°)		
BEND (45°)		
BEND (90°)		
CAP		
COUPLING		
CROSS		
REDUCER (CONCENTRIC)		
REDUCER (ECCENTRIC)		
TEE		
TRUE UNION		
WYE		

ROAD MARKINGS

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
ARROW LEFT		
ARROW RIGHT		
ARROW STRAIGHT		
ARROW STRAIGHT/ LEFT		
ARROW STRAIGHT/ RIGHT		
BICYCLE ROUTE		
CAR		
HANDICAP SYMBOL		

VALVES

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
AIR VALVE		
BLOW OFF		
COMBO VALVE		
BALL VALVE (N.C.)		
BALL VALVE (N.O.)		
BUTTERFLY VALVE		
CHECK VALVE		
CHECK VALVE (FLANGE)		
CHECK VALVE (MJ)		
GATE VALVE		
PLUG VALVE (N.C.)		
PLUG VALVE (N.O.)		

ROADWAY

SYMBOL DESCRIPTION	EXISTING SYMBOL & BLOCK NAME	PROPOSED SYMBOL & BLOCK NAME
INTERSTATE ROUTE	25	
MAST ARM		
PEDESTRIAN SIGNAL		
STATE ROUTE	14	
TRAFFIC LIGHT		
TYPE 2 BARRICADE		
US ROUTE	287	
TRAFFIC ATTENUATOR		
JERSEY BARRIER		

J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN — STATE OF WASHINGTON — 39582 — REGISTERED PROFESSIONAL ENGINEER

REUSE OF DRAWINGS

NO.	DESCRIPTION	BY	APR	DATE
	REVISION			

PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

SYMBOL LEGEND

FILE: 3004051_G003
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: 3/20/2012

SHEET NUMBER:
G-003
3 OF 38

Plot Date: 3/20/2012 10:33 AM Plotted By: Mary M. Ganske
Date Created: 4/15/2011 P:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION\CN-01 DESIGN\CAD\SHEET\3004051_G003.DWG

SUMMARY OF QUANTITIES

ITEM NO.	TOTAL QUANTITY	UNIT	ITEM	PIERT ROAD STA. 590+50.00 TO STA. 677+57.10	APPROACHES STA. 590+50.00 TO STA. 677+57.10
			PREPARATION		
1	LUMP SUM	L.S.	MOBILIZATION	L.S.	L.S.
2	LUMP SUM	L.S.	CLEARING AND GRUBBING	L.S.	L.S.
3	8,559	S.Y.	REMOVING ASPHALT CONCRETE PAVEMENT	8,559	
4	325	L.F .	REMOVING CEMENT CONCRETE CURB AND GUTTER	325	
5	79	S.Y.	REMOVING CEMENT CONCRETE SIDEWALK	79	
6	1,710	L.F .	REMOVING FENCE	1,710	
7	LUMP SUM	L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTION	L.S.	
8	22	EACH	REMOVING TREES 5 IN. DIAM. TO 23 IN. DIAM.	22	
9	3	EACH	REMOVING TREES 24 IN. DIAM. TO 47 IN. DIAM.	3	
10	2	EACH	REMOVING TREES 48 IN. DIAM. TO 60 IN. DIAM.	2	
11	2	EACH	WELL ABANDONMENT	2	
12	2	EACH	IRRIGATION RISER REMOVAL	2	
13	7	EACH	PLUGGING EXISTING IRRIGATION PIPE	7	
14	LUMP SUM	L.S.	RESIDENTIAL DEMOLITION AND DISPOSAL	L.S.	
			GRADING		
15	22,555	C.Y.	ROADWAY EXCAVATION INCL. HAUL	22,555	
16	13,930	C.Y.	EMBANKMENT COMPACTION	13,930	
			DRAINAGE		
17	586	L.F.	PLAIN ST. CULV. PIPE 0.064 IN. TH. 12 IN. DIAM.	586	
18	248	L.F.	PLAIN ST. CULV. PIPE 0.109 IN. TH. 84 IN. DIAM.	248	
19	2	EACH	CEMENT CONC. HEADWALL FOR 84 IN. DIA. CULV. PIPE	2	
20	LUMP SUM	L.S.	CORPS OF ENGINEERS DRAIN BYPASS SYSTEM	L.S.	
21	363	C.Y.	QUARRY SPALLS	363	
22	1	EACH	PRECAST CONCRETE DRYWELL	1	
23	834	L.F .	SHORING - TRENCH SAFETY SYSTEMS	834	
			SURFACING		
24	2,575	TON	CRUSHED SURFACING TOP COURSE	2,445	130
25	32,755	TON	CRUSHED SURFACING BASE COURSE	32,755	
			ASPHALT CONCRETE PAVEMENT		
26	9,005	TON	HMA CL. 1/2 IN. PG 70-28	8,945	60
27	935	TON	COMMERCIAL HMA FOR PATHWAY	935	
28	-1.00	DOL.	JOB MIX COMPLIANCE PRICE ADJUSTMENT	-1.00	
29	-1.00	DOL.	COMPACTION PRICE ADJUSTMENT	-1.00	
30	1.00	DOL.	ASPHALT COST PRICE ADJUSTMENT	1.00	
31	40,255	S.Y.	SOIL RESIDUAL HERBICIDE	39,740	515
			IRRIGATION AND WATER DISTRIBUTION		
32	180	L.F.	CORRUGATED METAL PIPE 12 IN. DIAM. FOR SLEEVE	180	
			EROSION CONTROL AND PLANTING		
33	18	DAY	ESC LEAD	18	
34	7	ACRE	SEEDING, FERTILIZING AND MULCHING	7	
35	1,765	L.F.	SILT FENCE	1,765	
36	100	L.F.	TEMPORARY SILT CURTAIN	100	
37	LUMP SUM	L.S.	TESC PLAN	L.S.	L.S.
38	3,000	DOL.	EROSION/WATER POLLUTION CONTROL	3,000	
39	1	EACH	CHECK DAM	1	

J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

REUSE OF DRAWINGS

NO	DESCRIPTION	BY	APP'D	DATE
	REVISION			

PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

SUMMARY OF QUANTITIES

FILE: 3004051_G004
JUB PROJ. #: 30-04-051
DRAWN BY: STT
DESIGN BY: TAM
CHECKED BY: GSE
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 3/26/2012

SHEET NUMBER:
G-004
4 OF 38

Plot Date:3/29/2012 10:32 AM Plotted By: Mary M. Garske
Data Created:4/15/2011 P:\PROJ\GC\130-04-051 - PIERT ROAD EXTENSION\01 DESIGN\CAD\SHEET\3004051_G004.DWG

SUMMARY OF QUANTITIES

ITEM NO.	TOTAL QUANTITY	UNIT	ITEM	PIERT ROAD STA. 590+50.00 TO STA. 677+57.10	APPROACHES STA. 590+50.00 TO STA. 677+57.10
			TRAFFIC		
40	1,112.5	L.F.	BEAM GUARDRAIL TYPE 1	1,112.5	
41	7	EACH	BEAM GUARDRAIL FLARED TERMINAL	7	
42	1	EACH	BEAM GUARDRAIL NON-FLARED TERMINAL	1	
43	2	EACH	BEAM GUARDRAIL PLACEMENT 25' SPAN	2	
44	27,570	L.F.	PAINT LINE	27,570	
45	865	L.F.	PAINTED WIDE LINE	865	
46	2	EACH	PLASTIC TRAFFIC ARROW	2	
47	35	L.F.	PLASTIC STOP LINE	35	
48	5	EACH	PLASTIC RAILROAD CROSSING SYMBOL	5	
49	3	EACH	PLASTIC BIKE RIDER SYMBOL	3	
50	LUMP SUM	L.S.	TEMPORARY TRAFFIC CONTROL DEVICES	L.S.	
51	201	S.F.	CONSTRUCTION SIGNS CLASS A	201	
52	LUMP SUM	L.S.	PROJECT TEMPORARY TRAFFIC CONTROL	L.S.	
53	LUMP SUM	L.S.	ILLUMINATION SYSTEM	L.S.	
			OTHER ITEMS		
54	2,000	DOL	ROADSIDE CLEANUP	2,000	
55	LUMP SUM	L.S.	TRIMMING AND CLEANUP	L.S.	L.S.
56	5,000	DOL	MINOR CHANGE	5,000	
57	LUMP SUM	L.S.	SPCC PLAN	L.S.	L.S.
58	6	EACH	BOLLARD TYPE 2	6	
59	225	L.F.	CHAIN LINK FENCE TYPE 3	225	
60	2	EACH	END, GATE, CORNER, AND PULL POST FOR CHAIN LINK FENCE	2	
61	2	EACH	MAILBOX SUPPORT TYPE 1	2	
62	170	S.F.	DETECTABLE WARNING SURFACE (SELF ADHESIVE)	170	
63	LUMP SUM	L.S.	CEMENT CONC. RAILROAD CROSSING COMPLETE - SOUTH	L.S.	
64	LUMP SUM	L.S.	CEMENT CONC. RAILROAD CROSSING COMPLETE - NORTH	L.S.	
65	1	EACH	ADJUST GAS VALVE BOX	1	
66	LUMP SUM	L.S.	WELL MONITORING	L.S.	
67	LUMP SUM	L.S.	COCHRAN ROAD CLOSURE	L.S.	

J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER

REUSE OF DRAWINGS

NO.	DESCRIPTION	BY	APR	DATE
	REVISION			

PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

SUMMARY OF QUANTITIES

FILE: 3004051_G005
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: 3/27/2012

SHEET NUMBER:
G-005

Plot Date:3/29/2012 10:31 AM Plotted By: Mary M. Gansko
Date Created:4/15/2011

QUANTITY TABULATION - DEMOLITION/SITE PREPARATION

REFER TO PLAN SHEET FOR CONSTRUCTION FEATURE	NOTE: THE FIRST NUMBER OF THE "CODE" REFERS TO THE SHEET NUMBER OF THE CONTRACT PLANS. THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THE PARTICULAR SHEET, (#).	REMOVE ASPHALT CONCRETE PAVEMENT	REMOVE CEMENT CONC. CURB AND GUTTER	REMOVE CEMENT CONC. SIDEWALK	REMOVE FENCE	REMOVING TREES 5 IN. DIAM. TO 23 IN. DIAM.	REMOVING TREES 24 IN. DIAM. TO 47 IN. DIAM.	REMOVING TREES 48 IN. DIAM. TO 60 IN. DIAM.	WELL ABANDONMENT	PLUGGING EXISTING IRRIGATION PIPE	RESIDENTIAL DEMOLITION AND DISPOSAL	IRRIGATION RISER REMOVAL								
CODE	LOCATION	S.Y.	L.F.	S.Y.	L.F.	EACH	EACH	EACH	EACH	EACH	L.S.	EACH								
C-101-1	P 590+50.00 TO P 596+17±	1,771																		
C-101-2	P 591+50.00, LT. TO 592+65.00, LT.					3	1													
C-101-3	P 596+35.00, 50.0' LT. TO P 609+45.00, 68.45' RT.				1,382															
C-101-4	P 602+91.04, 9.65' RT.								1											
C-101-5	P 609+50.00.00, LT. & RT.											2								
C-102-1	P 616+01.41 TO P 617+78.68	1,230																		
C-102-2	VIC. P 617+50.00, LT. TO P 619+75.00, RT.									7									PLUG 5 EXISTING RISERS AND EACH END OF MAINLINE	
C-102-3	VIC. P 629+50.00, 50.0' LT. TO 35.0' RT.						2	1												
C-102-4	P 629+54.67, RT. TO P 629+58.73, LT.				86															
C-102-5	P 636+00.00, RT.							1												
C-102-6	VIC. P 637+50.00										L.S.									
C-102-7	P 638+51.60, 34.5' LT. TO P 637+90.16, 71.2' RT.				123															
C-102-8	P 636+29.91 TO P 636+49.56	200																		
C-102-9	VIC P 637+50, LT.								1										WELL LOCATED IN CRAWL SPACE UNDER HOUSE	
C-103-1	P 649+70.04, 2.78' LT. TO P 649+80.96, 22.26' RT.				28															
C-103-2	P 659+40.43, 6.55' LT. P 658+59.28, 33.73' RT.				91															
C-103-3	P 666+50.00, RT. TO P 670+00.00, RT.					13														
C-103-4	P 666+80.65, 114.20' RT. TO P 670+00.00, 53.15' RT.	608																		
C-104-1	P 670+00.00, RT. TO P 671+50.00, LT.					6														
C-104-2	P 670+00.00, 53.15' RT. TO P 677+57.10	4,750																	INCLUDES REMOVAL OF AGRIUM ACCESS ROAD AND ENTRANCE	
C-104-3	P 676+32.00, RT. TO P 677+57.10, LT.			79																
C-104-4	P 676+32.00, RT. TO P 677+57.10, LT & RT.		325																INCLUDES BOTH SIDES OF EXISTING ROAD	
	PROJECT TOTAL	8,559	325	79	1,710	22	3	2	2	7	L.S.	2								

J-U-B ENGINEERS, INC.
J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN
STATE OF WASHINGTON
23982
REGISTERED
PROFESSIONAL ENGINEER

REUSE OF DRAWINGS
THE CONCEPTS AND DESIGNS SHOWN IN THESE PLANS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF J-U-B ENGINEERS, INC. THEY ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF J-U-B ENGINEERS, INC.

NO.	DESCRIPTION	BY	APP.	DATE
	REVISION			

PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

QUANTITY TABULATION

FILE: 3004051_G006
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:
G-006
6 OF 38

Plot Date:3/29/2012 10:31 AM Plotted By: Mary Ann Garaike
Date Created:4/19/2011 P:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION\00 DESIGN\CAD\SHEET\3004051_G006.DWG

QUANTITY TABULATION - TRAFFIC/MISC.

REFER TO PLAN SHEET FOR CONSTRUCTION FEATURE	NOTE: THE FIRST NUMBER OF THE "CODE" REFERS TO THE SHEET NUMBER OF THE CONTRACT PLANS. THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THE PARTICULAR SHEET, (#).	BEAM GUARDRAIL TYPE 1	BEAM GUARDRAIL FLARED TERMINAL	BEAM GUARDRAIL NON-FLARED TERMINAL	BEAM GUARDRAIL PLACEMENT 25' SPAN	MAILBOX SUPPORT TYPE 1	BOLLARD TYPE 2	DETECTABLE WARNING SURFACE (ADHESIVE)	WELL MONITORING	SILT FENCE	TEMPORARY SILT CURTAIN	ADJUST GAS VALVE BOX	CHAIN LINK FENCE TYPE 3	END, GATE, CORNER, AND PULL POST FOR CHAIN LINK FENCE							
CODE	LOCATION	L.F.	EACH	EACH	EACH	EACH	EACH	S.F.	L.S.	L.F.	L.F.	EACH	L.F.	EACH							
C-201-1	P 590+60.00, 23.00' LT.					1															
C-201-2	P 591+65.00, 20.90' LT.					1															
C-201-3	VIC. P 591+60.00, LT.								L.S.												SEE SPECIAL PROVISIONS
C-203-1	VIC. P 613+75.00, LT.							32													TWO 8'x2' PANELS, SEE RAILROAD CROSSING PLAN FOR LAYOUT
C-203-2	VIC. P 615+70.00, LT.							32													TWO 8'x2' PANELS, SEE RAILROAD CROSSING PLAN FOR LAYOUT
C-205-1	P 643+62.50, 22.00' RT. TO P 644+00.00, 18.00' RT.		1																		SRT-350 TERMINAL
C-205-2	P 644+00.00, 18.00' RT. TO P 647+00.00, 18.00' RT.	300																			
C-205-3	P 644+40.00, 141.00' RT. TO P 647+00.00, RT.									330											CONSTRUCT ALONG PROPERTY LINES AND TOP OF DITCH BANK
C-206-1	P 647+00.00, RT. TO P 649+00.00, RT.									200											
C-206-2	P 647+00.00, 18.0' RT. TO P 651+50.00, 18.0' RT.	450																			
C-206-3	P 649+87.50, 22.0' LT. TO P 650+25.00, 18.0' LT.		1																		SRT-350 TERMINAL
C-206-4	P 650+25.00, 18.0' LT. TO P 653+00.00, 18.0' LT.	275																			
C-206-5	P 651+50.00, 18.0' RT. TO P 651+87.50, 22.0' RT.		1																		SRT-350 TERMINAL
C-206-6	P 653+00.00, 18.0' LT. TO P 653+37.50, 22.0' LT.		1																		SRT-350 TERMINAL
C-206-7	P 649+00.00, RT. TO P 650+00.00, RT.										100										CONSTRUCT ALONG RIGHT-OF-WAY AT HIGH WATER MARK
C-206-8	P 650+00.00, RT. TO P 652+50.00, RT.									235											CONSTRUCT ALONG RIGHT-OF-WAY
C-206-9	P 650+50.00, 30.50' LT. TO P 652+75.00, 30.50' LT.												225	2							
C-207-1	P 658+37.50, 22.0' RT. TO P 658+75.00, 18.0' RT.		1																		SRT-350 TERMINAL
C-207-2	P 658+75.00, 18.0' RT. TO P 658+87.50, 18.0' RT.	12.5																			
C-207-3	P 658+87.50, 18.0' RT. TO P 659+87.50, 18.0' RT.				1																
C-207-4	P 659+87.50, 18.0' RT. TO P 660+25.00, 18.0' RT.	37.5																			
C-207-5	P 660+25.00, 18.0' RT. TO P 660+62.50, 22.0' RT.		1																		SRT-350 TERMINAL
C-207-6	P 658+90.00, 22.0' LT. TO P 659+27.50, 18.0' LT.		1																		SRT-350 TERMINAL
C-207-7	P 659+27.50, 18.0' LT. TO P 659+52.50, 18.0' LT.	25																			
C-207-8	P 659+52.50, 18.0' LT. TO P 659+52.50, 18.0' LT.				1																
C-207-9	P 660+52.50, 18.0' LT. TO P 660+65.00, 18.0' LT.	12.5																			
C-207-10	P 660+65.00, 18.0' LT. TO P 660+90.00, 18.0' LT.			1																	TL-2 TERMINAL
C-207-11	P 661+00.00, LT. TO P 671+00.00, LT.									1,000											CONSTRUCT AT TOP OF CANAL BANK
C-211-1	VIC. L 10+35.00, LT. & RT.							32													TWO PANELS, 8'x2'
C-211-2	VIC. P 596+45.00, LT. & RT.							32													TWO PANELS, 8'x2'
C-211-3	P 598+11.86, 40.60 RT.											1									
C-211-4	VIC. G 9+63.00, LT. & RT.							32													TWO PANELS, 8'x2'
C-215-1	VIC. AN 10+50.00, LT.						3														SEE INTERSECTION PLANS FOR LOCATIONS, SEE SHEET C-215
C-215-2	VIC. AN 11+75.00, RT.						3														SEE INTERSECTION PLANS FOR LOCATIONS, SEE SHEET C-215
C-215-3	VIC. P 677+50.00, LT.							10													
	PROJECT TOTAL	1112.5	7	1	2	2	6	170	L.S.	1,765	100	1	225	2							

J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN — STATE OF WASHINGTON — 29882 — REGISTERED PROFESSIONAL ENGINEER

THE DOCUMENTS AND ELECTRONIC DATA FURNISHED BY J-U-B ENGINEERS, INC. ARE INSTRUMENTS OF SERVICE PREPARED FOR THE PROJECT SPECIFIED HEREIN. ALL REPRODUCTIONS OF THESE DOCUMENTS AND ELECTRONIC DATA SHALL BE MADE FROM THE ORIGINAL DOCUMENTS AND DATA AND SHALL BEAR ALL COPYRIGHT AND OTHER NOTICES CONTAINED THEREIN. THE DOCUMENTS AND DATA ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY J-U-B ENGINEERS, INC. FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO J-U-B ENGINEERS, INC. OWNER SHALL INDEMNIFY AND HOLD HARMLESS J-U-B ENGINEERS, INC. AND ITS OFFICERS, EMPLOYEES AND CONSULTANTS FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM. ANY SUCH VERIFICATION OR ADAPTATION WILL ENTITLE J-U-B ENGINEERS, INC. TO FURTHER COMPENSATION AT RATES TO BE AGREED UPON BY OWNER AND J-U-B ENGINEERS, INC.

NO.	DESCRIPTION	BY	APP'I	DATE
	REVISION			

PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

QUANTITY TABULATION - TRAFFIC & MISC.

FILE: 3004051_G007
JUB PROJ. #: 30-04-051
DRAWN BY: STT
DESIGN BY: TAM
CHECKED BY: GSE
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 3/23/2012

SHEET NUMBER:
G-007
7 OF 38

Plot Date:3/29/2012 10:30 AM Plotted By: Mary M. Ganske
Data Created:4/15/2011 P:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION-01 DESIGN\CAD\SHEET\3004051_G007.DWG

STRUCTURE NOTES

REFER TO PLAN SHEET FOR CONSTRUCTION FEATURE	NOTE: THE FIRST NUMBER OF THE "CODE" REFERS TO THE SHEET NUMBER OF THE CONTRACT PLANS. THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THE PARTICULAR SHEET, (#).	PLAIN ST. CULV. PIPE 0.064 IN. TH. 12 IN. DIAM.	PLAIN ST. CULV. PIPE 0.109 IN. TH. 84 IN. DIAM.	CEMENT CONC. HEADWALL FOR 84 IN. DIAM. CULV. PIPE	QUARRY SPALLS *	PRECAST CONCRETE DRYWELL	CORRUGATED METAL PIPE, 12 IN. DIAM. FOR SLEEVE	CHECK DAM										SEE GENERAL NOTES	* INCLUDES DITCH LINING AND OUTFALL AREAS
CODE	LOCATION	L.F.	L.F.	EACH	C.Y.	EACH	L.F.	EACH											
C-201-1	P 590+72.00, 26.5' LT.	28																2	
C-201-2	P 591+80.70, 26.5' LT.	32																2	
C-201-3	P 592+52.77, 26.5' LT.	32																2	
C-201-4	P 597+95.00, 26.5' RT.	32																2	
C-203-1	P 621+50.00						90												
C-203-2	P 624+50.00						90												
C-204-1	P 638+00.00, LT. TO P 639+00.00, LT.				15														QUARRY SPALL LINED DITCH
C-205-1	P 645+00.00, 32.0' LT. TO P 644+50.00, 28.77' RT.	70																2	LT. INV. (INLET) EL. 332.91, RT. INV. (OUTLET) EL. 332.49
C-205-2	P 644+50.00, 28.77' RT.				2														5.25'x6.25' OUTFALL PAD
C-205-3	P 643+00.00, RT. TO P 643+50.00, RT.				36														SEE QUARRY SPALL LINED DITCH DETAIL, SEE SHEET C-301
C-205-4	P 644+50.00, RT. TO P 645+00.00, RT.				20														SEE QUARRY SPALL LINED DITCH DETAIL, SEE SHEET C-301
C-205-5	P 639+00.00, LT. TO P 646+00.00, LT.				115														QUARRY SPALL LINED DITCH
C-206-1	P 651+95.20, 61.75' LT. TO P 649+76.15, 40.75' RT.		248	2														1,2	LT. INV. (INLET) EL. 325.60, RT. INV. (OUTLET) EL. 325.20
C-206-2	P 652+75.00, RT. TO P 658+00.00, RT.				105														QUARRY SPALL LINED DITCH
C-206-3	P 653+50.00, LT. TO P 658+00.00, LT.				70														QUARRY SPALL LINED DITCH
C-211-1	P 596+10.91, 27' RT.	82																2	
C-211-2	P 596+17.75, 25.6' LT.	80																2	
C-211-3	P 609+80.00, 26.0' LT.	62																2	
C-212-1	P 617+11.52, 52.10' RT. TO P 618+15.17, 38.6' RT.	106																2	
C-214-1	A 10+26.51	62																2	
C-215-1	P 675+00.00, LT.							1											SEE CHECK DAM DETAIL, SEE SHEET C-501
C-215-2	AN 11+75.00, 27.00' LT.					1													SEE STORM DRAINAGE DETAILS, SHEET C-501
	PROJECT TOTAL	586	248	2	363	1	180	1											

GENERAL NOTES:

1. SEE WSDOT STD. PLAN B-75.20-01
2. INLETS AND OUTLETS MITERED TO CONFORM TO SLOPE

J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN — STATE OF WASHINGTON — 39082 — REGISTERED PROFESSIONAL ENGINEER

REUSE OF DRAWINGS
THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF J-U-B ENGINEERS, INC.

NO	DESCRIPTION	DATE	BY
	REVISION		

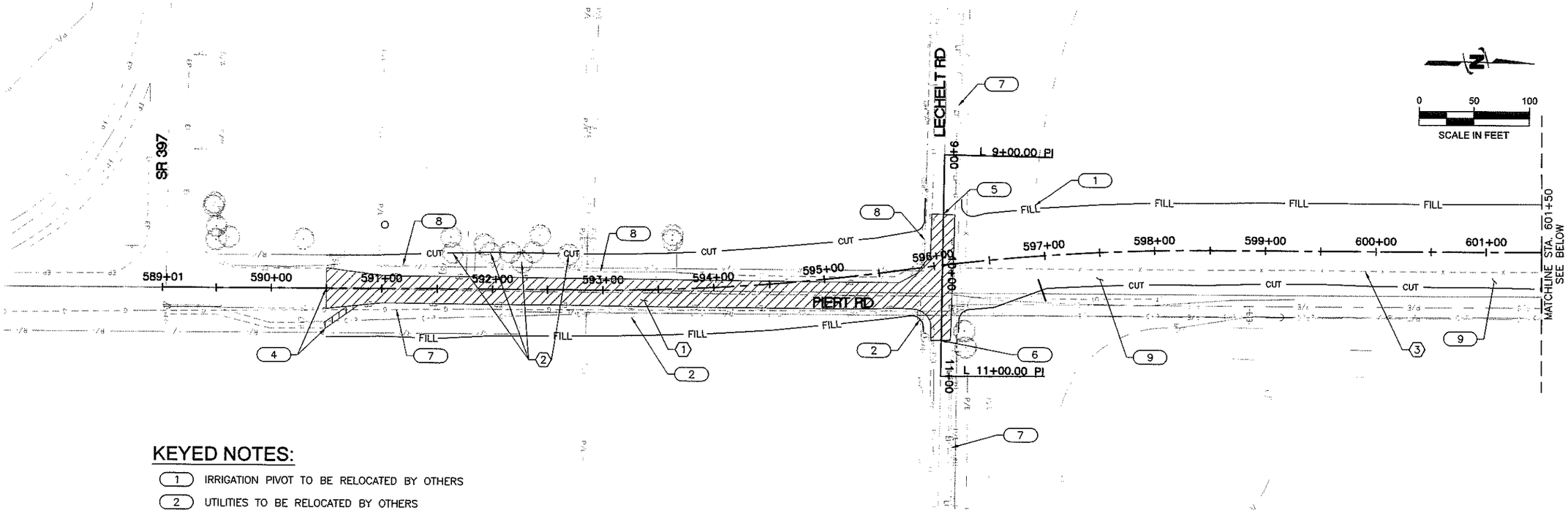
PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

STRUCTURE NOTES

FILE: 3004051_G008
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: 3/27/2012

SHEET NUMBER:
G-008
8 OF 38

Plot Date: 3/29/2012 10:30 AM Plotted By: Mary M. Gaviola
Data Created: 4/15/2011 F:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION\01 DESIGN\CADD\SHEETS\3004051_G008.DWG

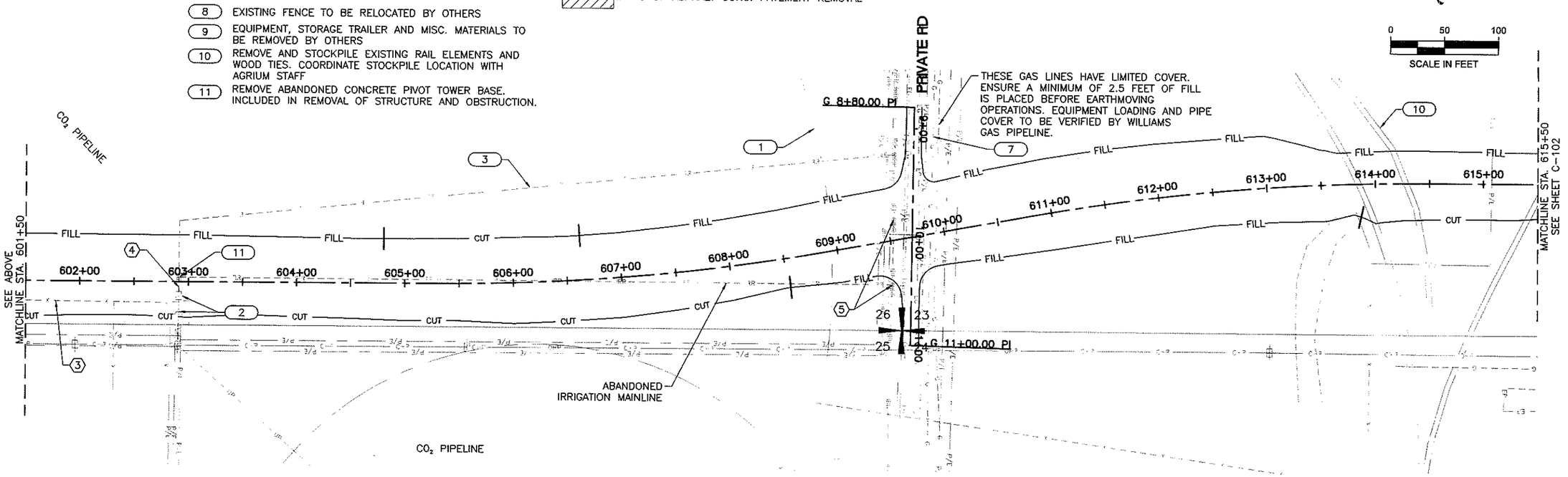


KEYED NOTES:

1. IRRIGATION PIVOT TO BE RELOCATED BY OTHERS
2. UTILITIES TO BE RELOCATED BY OTHERS
3. IRRIGATION RELOCATION BY OTHERS
4. P 590+50.00, SAWCUT ASPHALT PAVEMENT
5. L 9+40.00, SAWCUT ASPHALT PAVEMENT
6. L 10+60.00, SAWCUT ASPHALT PAVEMENT
7. EXISTING GAS LINES TO REMAIN.
8. EXISTING FENCE TO BE RELOCATED BY OTHERS
9. EQUIPMENT, STORAGE TRAILER AND MISC. MATERIALS TO BE REMOVED BY OTHERS
10. REMOVE AND STOCKPILE EXISTING RAIL ELEMENTS AND WOOD TIES. COORDINATE STOCKPILE LOCATION WITH AGRIUM STAFF
11. REMOVE ABANDONED CONCRETE PIVOT TOWER BASE. INCLUDED IN REMOVAL OF STRUCTURE AND OBSTRUCTION.

LEGEND:

- (#) QUANTITY TABULATION NOTE
- (#) STRUCTURE NOTE
- LIMITS OF ASPHALT CONC. PAVEMENT REMOVAL



J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN
STATE OF WASHINGTON
23952
REGISTERED
PROFESSIONAL ENGINEER

REUSE OF DRAWINGS
THE DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF J-U-B ENGINEERS, INC.

NO.	DESCRIPTION	BY	APP'D	DATE
	REVISION			

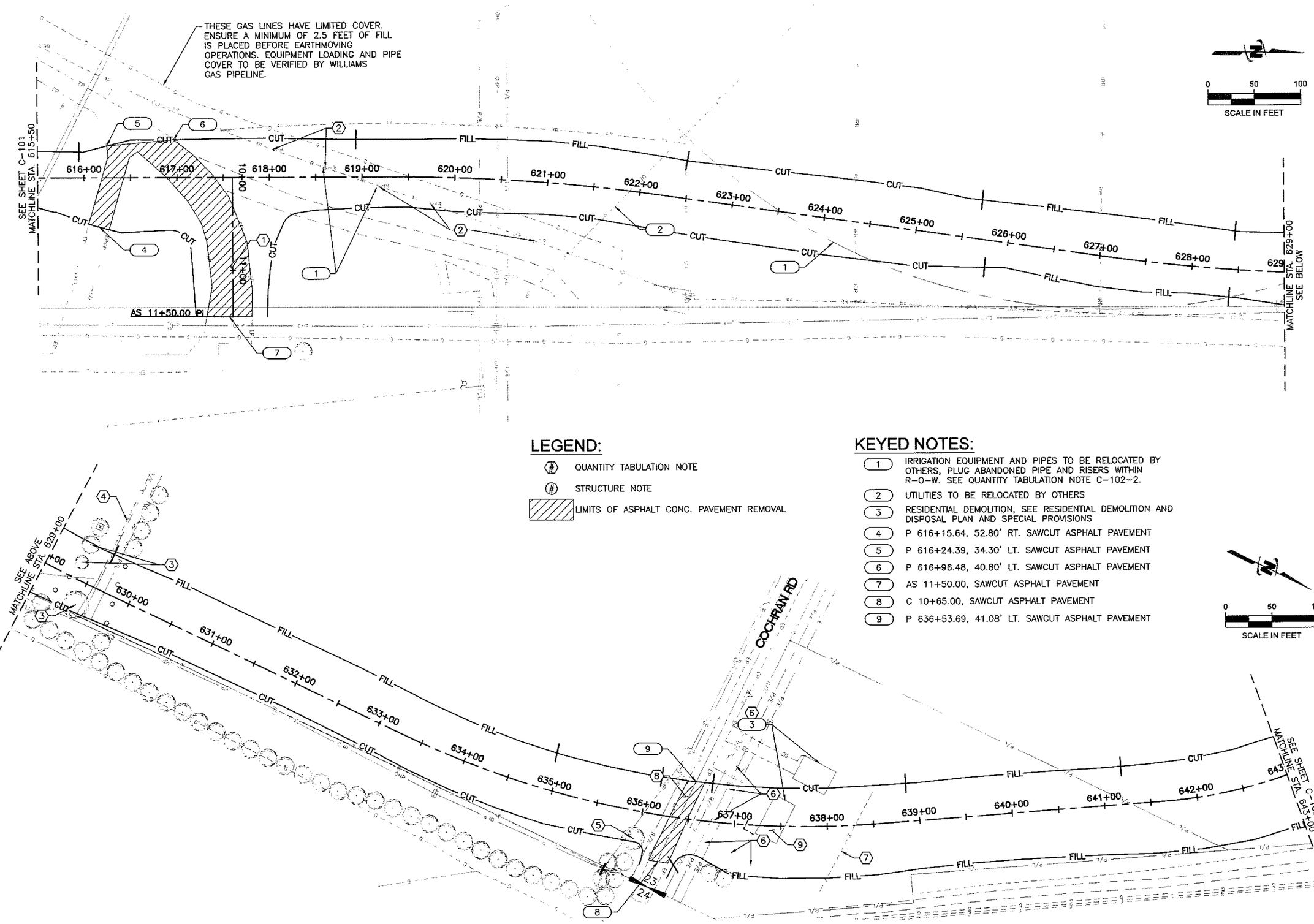
PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

DEMOLITION PLAN
STA. 590+50 TO 615+50

FILE: 3004051_C101
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-101
9 OF 38

Plot Date:3/29/2012 10:01 AM Plotted By: Mary M. Garvin
Data Created:6/21/2011 P:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION-01 DESIGN\CAD\SHEETS\3004051_C101.DWG



LEGEND:

- (#) QUANTITY TABULATION NOTE
- (#) STRUCTURE NOTE
- LIMITS OF ASPHALT CONC. PAVEMENT REMOVAL

KEYED NOTES:

1. IRRIGATION EQUIPMENT AND PIPES TO BE RELOCATED BY OTHERS, PLUG ABANDONED PIPE AND RISERS WITHIN R-O-W. SEE QUANTITY TABULATION NOTE C-102-2.
2. UTILITIES TO BE RELOCATED BY OTHERS
3. RESIDENTIAL DEMOLITION, SEE RESIDENTIAL DEMOLITION AND DISPOSAL PLAN AND SPECIAL PROVISIONS
4. P 616+15.64, 52.80' RT. SAWCUT ASPHALT PAVEMENT
5. P 616+24.39, 34.30' LT. SAWCUT ASPHALT PAVEMENT
6. P 616+96.48, 40.80' LT. SAWCUT ASPHALT PAVEMENT
7. AS 11+50.00, SAWCUT ASPHALT PAVEMENT
8. C 10+65.00, SAWCUT ASPHALT PAVEMENT
9. P 636+53.69, 41.08' LT. SAWCUT ASPHALT PAVEMENT

J-U-B ENGINEERS, INC.
J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

REUSE OF DRAWINGS

NO.	DESCRIPTION	REVISION	BY	APP'D	DATE

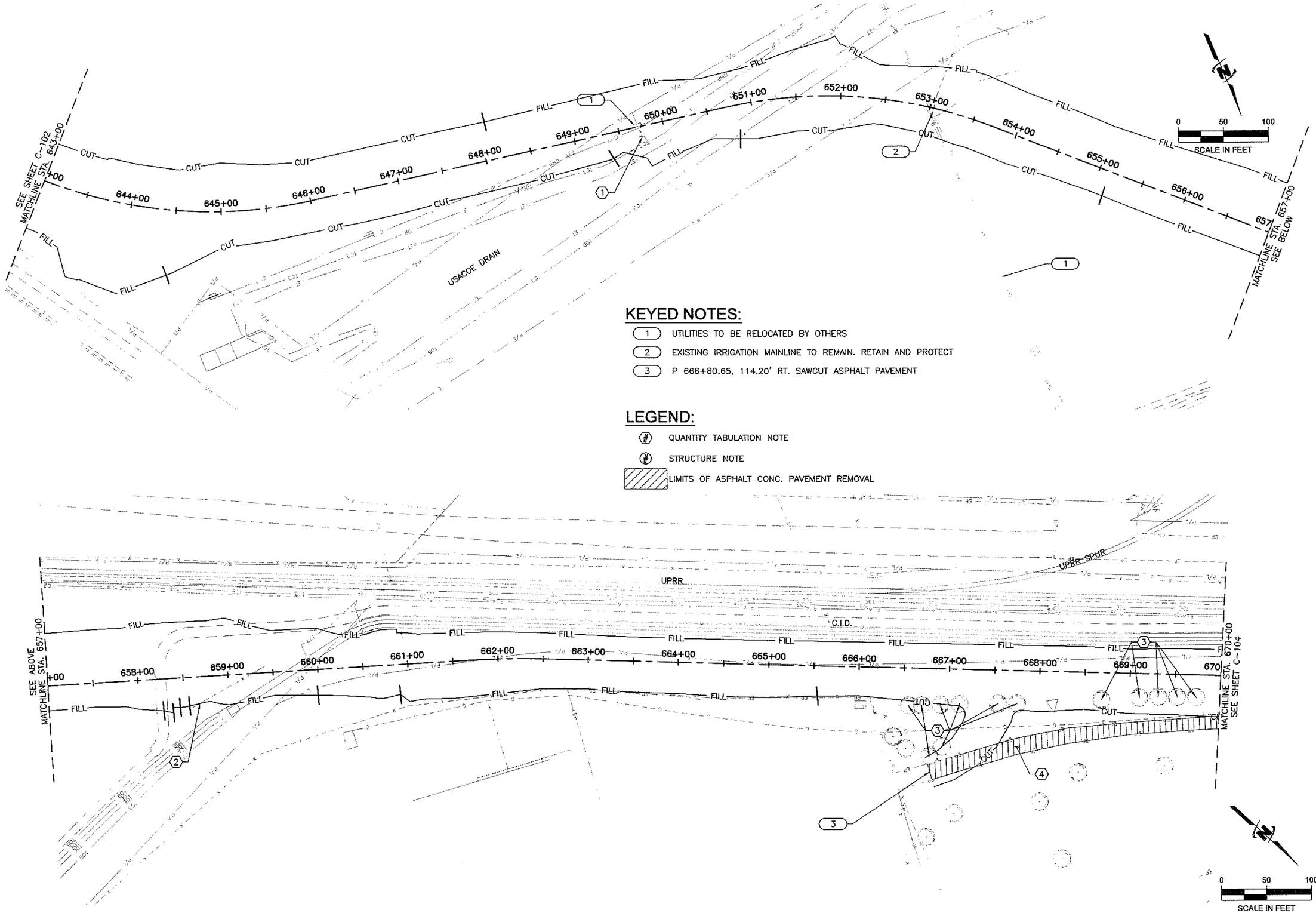
PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

DEMOLITION PLAN
STA. 615+50 TO 643+00

FILE: 3004051_C102
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: 3/27/2012

SHEET NUMBER:
C-102
10 OF 38

Plot Date: 3/29/2012 10:30 AM Plotted By: Mary M. Garcia
Data Created: 02/21/2011 F:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION\30-01 DESIGN\CAD\SHEET\3004051_C102.DWG



KEYED NOTES:

1. UTILITIES TO BE RELOCATED BY OTHERS
2. EXISTING IRRIGATION MAINLINE TO REMAIN. RETAIN AND PROTECT
3. P 666+80.65, 114.20' RT. SAWCUT ASPHALT PAVEMENT

LEGEND:

- (#) QUANTITY TABULATION NOTE
- (#) STRUCTURE NOTE
- LIMITS OF ASPHALT CONC. PAVEMENT REMOVAL

J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN
STATE OF WASHINGTON
20662
REGISTERED
PROFESSIONAL ENGINEER

REUSE OF DRAWINGS
THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF J-U-B ENGINEERS, INC. AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF J-U-B ENGINEERS, INC.

NO.	DESCRIPTION	BY	APP'D	DATE
REVISION				

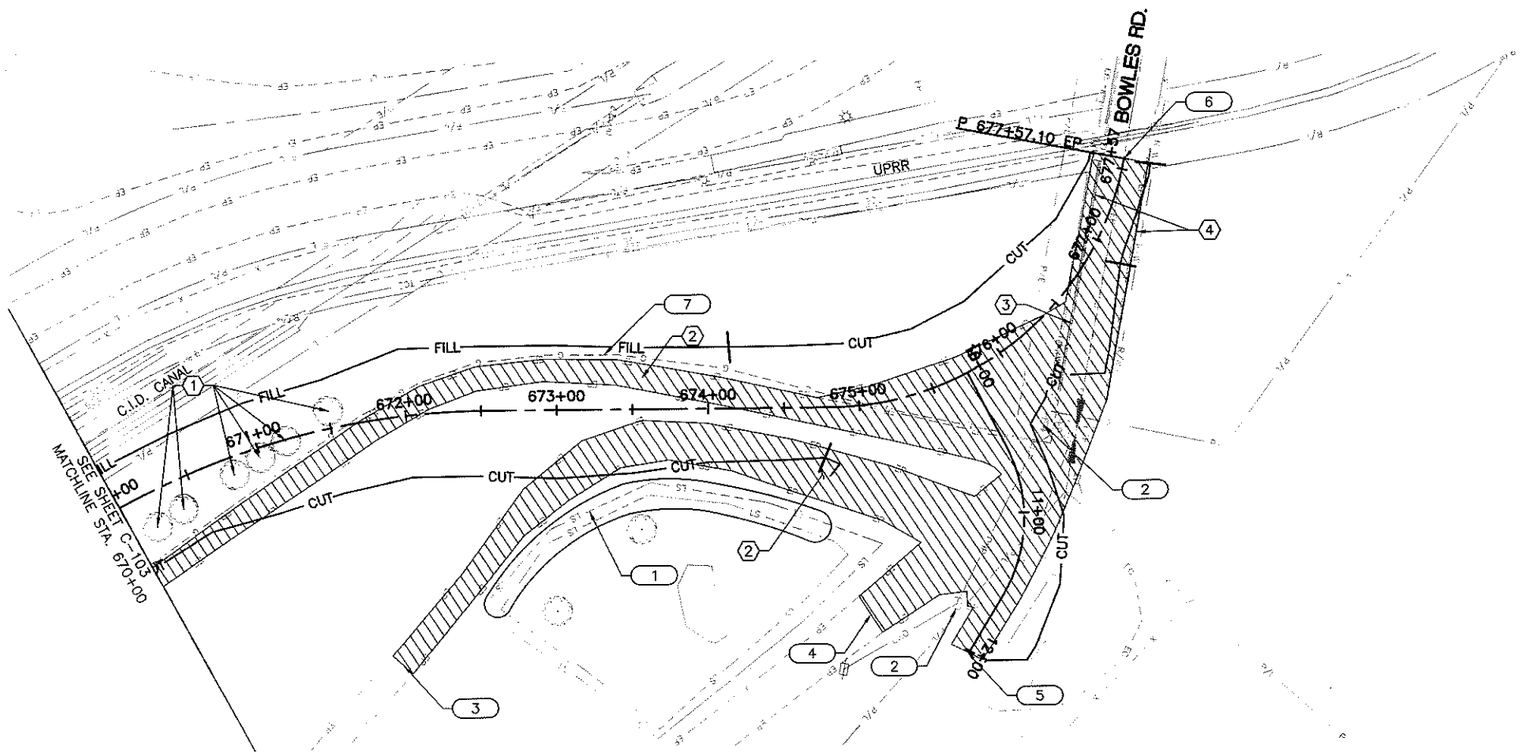
PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

DEMOLITION PLAN
STA. 643+00 TO 670+00

FILE: 3004651_C103
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-103
11 OF 38

Plot Date: 3/29/2012 10:16 AM Plotted By: Mary M. Garske
Date Created: 6/21/2011 P:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION-01 DESIGN\CAD\SHEETS\3004051_C103.DWG



KEYED NOTES:

1. REMOVE EXISTING LANDSCAPE PLANTINGS. TREES TO REMAIN. INCLUDED IN CLEARING AND GRUBBING
2. B.P.U.D. POLES TO REMAIN. RETAIN AND PROTECT
3. P 671+68.76, 162.13' RT. SAWCUT ASPHALT PAVEMENT
4. P 674+95.49, 137.37' RT. SAWCUT ASPHALT PAVEMENT
5. AN 12+01.10, SAWCUT ASPHALT PAVEMENT
6. P 677+57.10 SAWCUT ASPHALT PAVEMENT
7. EXISTING GAS LINES TO REMAIN. RETAIN AND PROTECT.

LEGEND:

- (#) QUANTITY TABULATION NOTE
- (#) STRUCTURE NOTE
- LIMITS OF ASPHALT CONC. PAVEMENT REMOVAL

0 50 100

SCALE IN FEET

J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDELL
STATE OF WASHINGTON
29582
REGISTERED
PROFESSIONAL ENGINEER

REUSE OF DRAWINGS
THESE DRAWINGS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF J-U-B ENGINEERS, INC.

NO.	DESCRIPTION	BY	APP.	DATE

REVISION

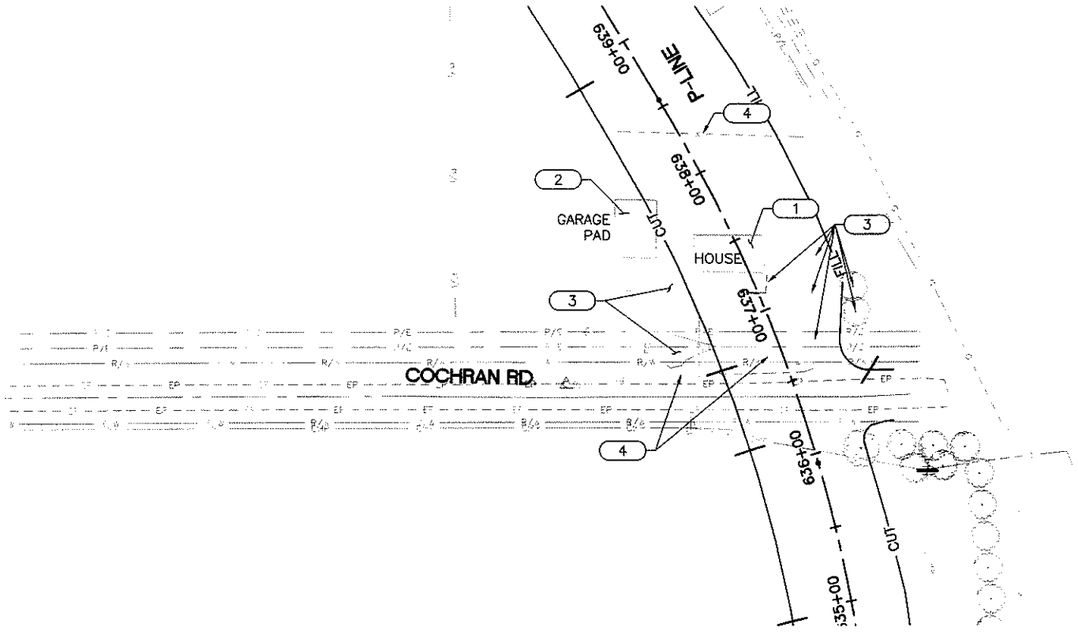
PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

DEMOLITION PLAN
STA. 670+00 TO 677+57

FILE : 3004051_C104
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: 3/26/2012

SHEET NUMBER:
C-104
12 OF 38

Plot Date: 3/29/2012 10:11 AM Plotted By: Mary M. Gonsko
Data Created: 2/21/2011 F:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION-01 DESIGN\C-CAD\SHEETS\300405 1_C104.DWG



KEYED NOTES:

1. REMOVE AND DISPOSE OF RESIDENTIAL STRUCTURE INCLUDING COMPLETE REMOVAL AND DISPOSAL OF ABOVE GROUND STORAGE TANK LOCATED IN BASEMENT ONCE USED FOR HEATING OIL. ABANDON EXISTING WELL ALSO LOCATED IN BASEMENT. ALL CONCRETE PADS AND FOUNDATIONS SHALL BE REMOVED TO A MINIMUM DEPTH OF 3 FEET FROM EXISTING GROUND SURFACE.
2. REMOVE AND DISPOSE OF CONCRETE PAD FROM OLD GARAGE. ALL CONCRETE PADS AND FOUNDATIONS SHALL BE REMOVED TO A MINIMUM DEPTH OF 3 FEET FROM EXISTING GROUND SURFACE.
3. REMOVE AND DISPOSE OF ALL ABOVE GROUND FEATURES INCLUDING FENCE POSTS, CLOTHES LINE POSTS, RETAINING WALL, LANDSCAPE BLOCKS, MAILBOX, TREE STUMPS, ETC.
4. SEE DEMOLITION PLAN SHEETS FOR FENCE REMOVAL

LEGEND:

- (#) QUANTITY TABULATION NOTE
- (#) STRUCTURE NOTE
- LIMITS OF ASPHALT CONC. PAVEMENT REMOVAL

N

0 50 100

SCALE IN FEET

GENERAL NOTES:

1. SEE PHASE 1 ENVIRONMENTAL SITE ASSESMENT REPORT 232104 E. COCHRAN ROAD DATED 9/23/2009 AND THE GOOD FAITH ASBESTOS INSPECTION DATED 4/5/2011 FOR ADDITIONAL INFORMATION ON PROPERTY.
2. ALL LOCAL STATE AND FEDERAL REQUIREMENTS SHALL GOVERN THE REMOVAL AND DISPOSAL OF EXISTING STRUCTURES. ASBESTOS CONTAINING MATERIALS ARE PRESENT AND REQUIRE REMOVAL AND PROPER DISPOSAL.

J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN
STATE OF WASHINGTON
20966
REGISTERED
PROFESSIONAL ENGINEER

REUSE OF DRAWINGS

NO.	DESCRIPTION	BY	APPR.	DATE
	REVISION			

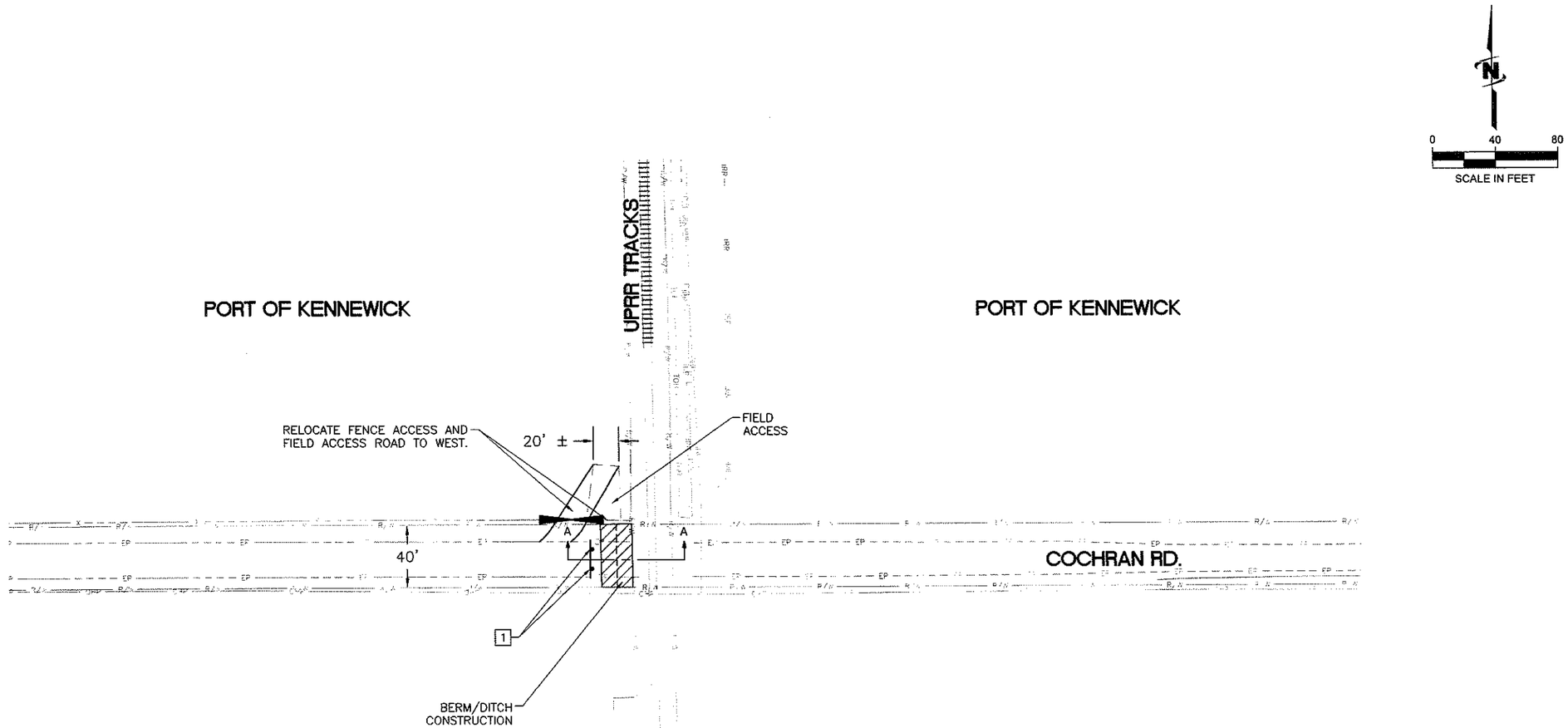
PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

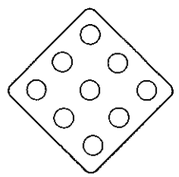
RESIDENTIAL DEMOLITION AND DISPOSAL PLAN

FILE: 3004051_C105
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

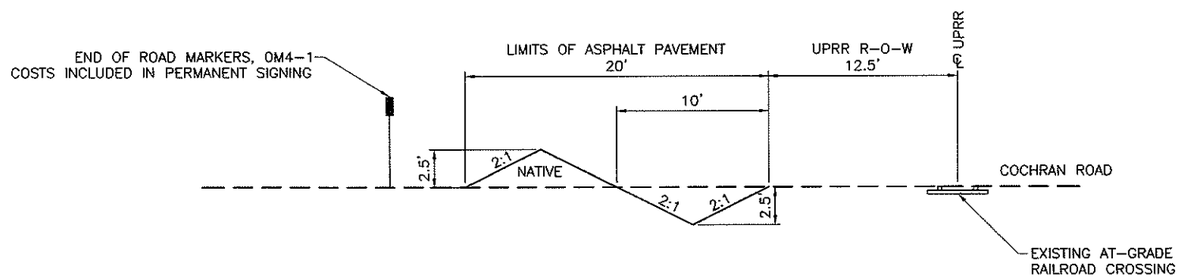
SHEET NUMBER:
C-105
13 OF 38

Plot Date:3/29/2012 10:23 AM Plotted By: Mary M. Garske
Date Created:2/15/2012 P:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION\30-01 DESIGN\CAD\SHEET\3004051_C105.DWG





OM4-1
18" X 18"
1



SECTION A-A
N.T.S.

J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC.
2810 W. Clearwater Ave.
Suite 201
Kennewick, WA 99336
Phone: 509.783.2144
Fax: 509.736.0790
www.jub.com

TRAVIS A. MARDEN
STATE OF WASHINGTON
29882
REGISTERED
PROFESSIONAL ENGINEER

REUSE OF DRAWINGS

NO.	DESCRIPTION	BY	APR	DATE
	REVISION			

PIERT ROAD EXTENSION - CE 1619 CRP
BENTON COUNTY

COCHRAN ROAD CLOSURE

FILE: 3004051_C106
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-106

Plot Date:3/29/2012 10:07 AM Plotted By: Mary M. Gansko
Data Created:3/20/2012 F:\PROJECTS\30-04-051 - PIERT ROAD EXTENSION\-01 DESIGN\CAD\SHEETS\3004051_C106.DWG