



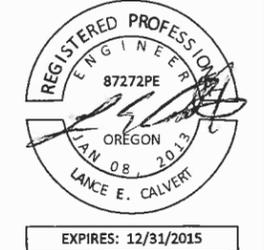
# CITY OF WEST LINN

## 2014 ROAD IMPROVEMENT PROGRAM

### PW-14-02



CITY OF WEST LINN  
22500 SALAMO ROAD  
WEST LINN, OREGON 97068  
WWW.WESTLINNOREGON.GOV  
PHONE: (503) 567-0331  
FAX: (503) 650-9041



**CONTRACTOR**  
NAME: -N/A  
ADDRESS: -N/A  
PHONE: -N/A  
FAX: -N/A



PAVING SHEET INDEX			
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BLANKENSHIP ROAD	13TH STREET	JOHNSON ROAD	C1.1-1.7
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MARGERY STREET	DE BOK ROAD	CUL-DE-SAC	C3.1-3.3
FARRVISTA DRIVE	MARGERY STREET	DE BOK ROAD	C4.1-4.2

SLURRY SEAL SHEET INDEX			
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BUCK STREET	ELLIOTT STREET	FAILING STREET	L3.1
PARKSIDE COURT	FAILING STREET	CUL-DE-SAC	L3.1

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BUCK STREET	FAILING STREET	HOLMES STREET	S3.1

WATERLINE IMPROVEMENT SHEET INDEX	
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CS	COVER SHEET
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QT	QUANTITY SHEET
A1.1	BLANKENSHIP ROAD
A1.2	BLANKENSHIP ROAD
SD	STANDARD DETAILS

2014 ROAD IMPROVEMENT PROGRAM

Cover Sheet

PROJECT NO.: PW-14-02  
DESIGNED BY: KLE  
DRAWN BY: NBRENNAN  
CHECKED BY: LCALVERT  
DATE: 5/14/2014

REVISION	
DATE	DESCRIPTION

COVER SHEET  
**CS**

UTILITY PROVIDERS		LOCATION MAP	
WATER:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
STORM:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
SEWER:	CITY OF WEST LINN	PUBLIC WORKS	503-656-6081
POWER:	PGE	BOBBIE DANIELSON	503-742-8483
STREET LIGHTS:	PGE	LORI SWANSON	503-742-8322
GAS:	NW NATURAL	DAVID BENTON	503-226-4211x2357
CATV:	COMCAST	BOB BOBMILLAR	360-828-3559
PHONE:	QWEST	KENNETH SCIULLI	503-242-0304

**GENERAL NOTE**  
All work within the public right-of-way shall conform to the current ODOT Oregon Standard Specifications for Construction

**GIS BASE MAP INFORMATION**  
Data Source: West Linn GIS  
OGIC Disclaimer: This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

**811**  
Know what's below.  
Call before you dig.

**ATTENTION**  
Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987).



OREGON STANDARD DRAWINGS INDEX	
Drawing No.	Drawing Title
RD1010	INLET PROTECTION (TYPE 1, 2 & 3)
RD300	TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS
RD302	STREET CUT
RD310	SHALLOW/DEEP TRENCH SERVICE CONNECTION, BLOCKING AND MARKERS
RD312	SUBSURFACE DRAIN
RD335	STANDARD STORM SEWER MANHOLE
RD336	STANDARD STORM SEWER MANHOLE
RD342	SHALLOW MANHOLES
RD360	MANHOLE FRAME ADJUSTMENT
RD364	CONCRETE INLETS TYPE G-1, G-2, G-2M & G2MA
TMS500	PAVEMENT MARKING STANDARD DETAIL BLOCKS
TMS501	PAVEMENT MARKING STANDARD DETAIL BLOCKS
TMS503	PAVEMENT MARKING STANDARD DETAIL BLOCKS
TMS503	PAVEMENT MARKING STANDARD DETAIL BLOCKS
TMS520	DURABLE PAVEMENT MARKINGS METHOD 'A' PROFILE
TMS524	DURABLE PAVEMENT MARKINGS METHOD 'E' NONE-PROFILE WET WEATHER
TMS531	TURN ARROW MARKING DETAILS
DET4560	PAVEMENT MARKING DETAIL BLOCKS
P-440	14' ASPHALT LOCAL SPEED BUMP

**CITY OF WEST LINN**  
**2014 Road Improvement**  
**Program**  
**PW-14-02**

C	SPEC REF	ITEM DESCRIPTION	UNIT	BLANKENSHIP RD PAVING	BLANKENSHIP RD STORM	BLANKENSHIP RD WATER	19TH ST	MARGERY ST	FARRISIA ST	FALLING ST	BUCK ST	PARKSIDE CT	MISC	TOTAL
<b>2014 ROAD IMPROVEMENT PROGRAM - AC STREETS</b>														
1	00210	MOBILIZATION	LUMP SUM											1
2	00225	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LUMP SUM											1
3	00280	EROSION CONTROL	LUMP SUM											1
4	00310	REMOVAL OF CURBS	FOOT	190	30									220
5	00310	REMOVAL OF WALKS AND DRIVEWAYS	SQ. YD.	210	200									410
6	00330	GENERAL EXCAVATION	CY	3400										3,400
7	00331	8" SUBGRADE STABILIZATION	SQ. YD.	100										100
8	00344	TREATED SUBGRADE, 8" THICK	SQ. YD.	5100									1000	6,100
9	00344	PORTLAND CEMENT (SAME RATIO AS SHERWOOD)	TON	104									20	124
10	00490	ADJUSTING BOXES	EACH	19			4	8						31
11	00610	RECONDITION EXISTING ROADWAY (GRADE 2" DOWN AT CURB, 2" UP AT CENTERLINE)	LUMP SUM				1	1	1					3
12	00620	COLD PLANE PAVEMENT REMOVAL, 0 TO 1 INCH DEEP	SQ. YD.	986										986
13	00620	COLD PLANE PAVEMENT REMOVAL, 1.5 INCH DEEP	SQ. YD.	186			5159	5845	1485					12,675
14	00730	EMULSIFIED ASPHALT FOR TACK COAT	TON	2			2	1.5	0.5				1	7
15	00744	LEVEL 2, 1/2 INCH DENSE, MPMAC MIXTURE	TON	540			445	504	128	34	1	3.5	173	1,829
16	00744	LEVEL 2, 3/4 INCH DENSE, MPMAC MIXTURE	TON	885			742	840	213				200	2,880
17	00748	3 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQ. YD.	139						200	5	18	370	732
18	00759	CONCRETE WALKS	SQ. FT.	1000	200									1,200
19	00759	CONCRETE DRIVEWAYS	SQ. FT.	120										120
20	00706	SLURRY SEAL, TYPE II	SQ. YD.							4116	2549	2363		9,028
21	00865	LONGITUDINAL PAVEMENT MARKING - DURABLE - THERMOPLASTIC, PROFILE, 120 MILS. EX	FOOT	6919						2682	456		800	10,857
22	00867	TRANSVERSE PAVEMENT MARKINGS, TYPE A: BICYCLE LANE SYMBOLS	EACH	5									2	7
23	00746	CRACK SEALING FLEXIBLE PAVEMENTS	L.B.										8800	8,800
24	00490	REMOVE VALVE AND VALVE BOX	EACH	5										5

C	SPEC REF	ITEM DESCRIPTION	UNIT	BLANKENSHIP RD PAVING	BLANKENSHIP RD STORM	BLANKENSHIP RD WATER	19TH ST	MARGERY ST	FARRISIA ST	FALLING ST	BUCK ST	PARKSIDE CT	MISC	TOTAL
<b>2014 ROAD IMPROVEMENT PROGRAM - BLANKENSHIP STORM IMPROVEMENTS- ENVIRONMENTAL FUND</b>														
25	00210	MOBILIZATION	LUMP SUM											1
26	00225	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LUMP SUM											1
27	00280	EROSION CONTROL	LUMP SUM											1
28	00445	12 INCH CONCRETE PIPE, 3' DEPTH	FOOT		80									80
29	00445	18 INCH CONCRETE PIPE, 3' DEPTH	FOOT		400									400
30	00445	SLOPE END SECTIONS, 12"	EACH		1									1
31	00445	SLOPE END SECTIONS, 24"	EACH		1									1
32	00470	CONCRETE INLET, TYPE CG-1	EACH		1									1
33	00759	CONCRETE CURBS, CURB AND GUTTER	FOOT		200	30								230
34	00470	CONCRETE MANHOLES, SHALLOW	EACH		2									2
35	00470	MANHOLE OVER EXISTING STRUCTURE	EACH		1									1
36	00470	CONCRETE INLET TYPE D	EACH		1									1
37	00320	DITCH CLEARING AND GRUBBING	L.S.		1									1

C	SPEC REF	ITEM DESCRIPTION	UNIT	BLANKENSHIP RD PAVING	BLANKENSHIP RD STORM	BLANKENSHIP RD WATER	19TH ST	MARGERY ST	FARRISIA ST	FALLING ST	BUCK ST	PARKSIDE CT	MISC	TOTAL
<b>2014 ROAD PROGRAM - WATERLINE IMPROVEMENTS</b>														
38	01140	6 INCH CONNECTION TO EXISTING 6 INCH MAIN	EACH			5								5
39	01140	12 INCH CONNECTION TO EXISTING 6 INCH MAIN	EACH			1								1
40	01140	4" DIP, FITTINGS* & COUPLINGS, BACKFILL	LF			94								94
41	01140	4" DIP, FITTINGS* & COUPLINGS WITH RESTRAINED JOINTS AND BACKFILL	LF			80								80
42	01140	6" DIP, FITTINGS* & COUPLINGS, BACKFILL	LF			101								101
43	01140	6" DIP, FITTINGS* & COUPLINGS WITH RESTRAINED JOINTS AND BACKFILL	LF			40								40
44	01140	8" DIP, FITTINGS* & COUPLINGS, BACKFILL	LF			40								40
44	01140	12" DIP, FITTINGS* & COUPLINGS, BACKFILL	LF			882							200	1,082
45	01140	12" DIP, FITTINGS* & COUPLINGS WITH RESTRAINED JOINTS AND BACKFILL	LF			300							50	350
46	01140	1 INCH WATER SERVICE CONNECTION	EACH			6							1	7
47	01150	4" GATE VALVE, VB & C, FLG x MJ PER DETAIL WL-411	EA			1								1
48	01150	6" GATE VALVE, VB & C, FLG x MJ PER DETAIL WL-411	EA			3								3
49	01150	12" GATE VALVE, VB & C, FLG x MJ PER DETAIL WL-411	EA			4							3	7
50	01160	FIRE HYDRANT W/VALVE, VB & C, FLG x MJ PER DETAIL WL-401	EA			3							1	4
51	01150	INSTALL 2 INCH BLOW-OFF, PER DETAIL WL-404A	EA			1								1

C	SPEC REF	ITEM DESCRIPTION	UNIT	BLANKENSHIP RD PAVING	BLANKENSHIP RD STORM	BLANKENSHIP RD WATER	19TH ST	MARGERY ST	FARRISIA ST	FALLING ST	BUCK ST	PARKSIDE CT	MISC	TOTAL
<b>2014 ROAD PROGRAM</b>														
52	00305	CONSTRUCTION SURVEY WORK	LUMP SUM											1



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 WEST LINN, OREGON 97068  
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 PHONE: (503) 567-0331  
 FAX: (503) 650-9041



EXPIRES: 12/31/2015

**CONTRACTOR**

NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

**2014 ROAD IMPROVEMENT PROGRAM**  
**INDEX SHEET**

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

**REVISION**

DATE	DESCRIPTION

**QUANTITIES**  
**QT**



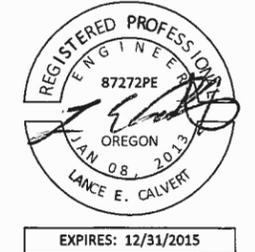
# CITY OF WEST LINN

## 2014 Road Improvement Program

### PW-14-02



CITY OF WEST LINN  
22500 SALAMO ROAD  
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**GENERAL NOTES:**

1. All construction shall conform to the latest City of West Linn Public Works Standard Construction Specifications and Standard Drawings. The ODOT standard specifications for construction will apply for measurement and payment.
2. This set of plans has been reviewed for compliance with City of West Linn requirements prior to issuance for construction. However such review shall not prevent the City Engineer from requiring correction of errors or omissions in plans found to be in violation of any law or ordinance.
3. The City Engineer does not warrant any quantities shown on these plans.
4. The Engineering Division, Inspection Section shall be notified twenty-four (24) hours prior to any construction work by telephone at 503-722-5501. Any work concealed without inspection shall be subject to removal and replacement at the Contractor's expense.
5. Any approved set of plans must be available on the job site at all times. The contractor's representative (capable of communicating with the City's representatives) shall be on the job at all times the work is being pursued.
6. The Contractor is responsible to provide emergency telephone numbers to the City of West Linn at time of receiving Project Notice to Proceed and have personnel available 24-hours a day to respond to emergencies. If the City is required to respond and make emergency repairs on behalf of the Contractor, the Contractor is responsible to reimburse the City for all costs incurred.
7. It is understood that there will be interfering utilities, service laterals, and other underground pipes, drains or structures encountered on underground projects that are not shown or are shown incorrectly on the plans and/or have not been previously discovered in the field. Contractor agrees this is a normal and usual occurrence in the construction of underground IMPROVEMENT. Furthermore, bidders understand and agree that work in some cases must be done in close proximity to said utilities and underground pipes, drains, and structures which may require a change in operations and may cause sloughing of the trench, additional traffic control, additional pavement and backfill costs, and time. The contractor agrees that a reasonable number of these occurrences are usual and ordinary on underground projects and are reflected in the bid and plan of operation.
8. It is the responsibility of the contractor to obtain any and all other permits and meet any requirements set forth by other agencies or utilities which have jurisdiction at the contractors expense.

**WATER NOTES:**

1. Water and sanitary sewer line crossings shall conform with the Oregon Administrative Regulation 333-061-0050(9).
2. The existing water lines to be taken out of service are marked on the drawings. These lines are to remain in service until the new lines are properly installed and tested, and water services have been connected. Approval from the City Engineer shall be obtained before any line is abandoned. The existing lines shall then be abandoned and their actual location and abandoned designation recorded on all record drawings. Unless called for otherwise, the abandoned lines will remain in the ground. The ends of all pipes which are abandoned shall be plugged with concrete or other methods approved by the City Engineer.
3. The contractor shall remove all existing valve boxes, meter boxes, hydrants and other fittings required to properly perform the scope of work, or as shown in the drawings. All such materials shall be transported to an area designated by the City and stockpiled. Materials shall be removed and handled in such a manner which will prevent damage. All other existing valves, meters and hydrants not used in the new system or not specified for removal will be removed by the city after the new system is in operation. Salvaged material shall remain the property of the City.
4. The abandoned existing pipe is to remain in the ground, unless otherwise specified. The contractor shall apply black bag the same day to all existing hydrants when permanently disconnected from service.
5. Pipe bedding and trench backfill are incidental to pipe.
6. It is the responsibility of the contractor to schedule water and sewer testing with the City inspector, per West Linn Standards.

**TRAFFIC CONTROL GENERAL NOTES:**

1. No road closure shall be allowed without City Engineer's prior approval as delegated by the City Manager.
2. The Contractor shall provide traffic control plan for City Approval
3. Traffic control shall conform to the ODOT Temporary Traffic Control Handbook and MUTCD. The Contractor shall submit a Traffic Control Plan to the City of West Linn Engineering Division for review and acceptance a minimum of 48-hours prior to construction. A copy of the accepted Traffic Control Plan must remain on the job site at all times.
4. Maintain vehicular, bicycle, pedestrian and emergency vehicle access to area homes throughout construction.

**CONSTRUCTION NOTES:**

1. Contractor shall provide erosion control best management practices per City of West Linn Standards. Provide catch basin protection and continual sweeping so that no mud, sediment, or rock is left on the streets, with no additional compensation.
2. The contractor is responsible for all construction surveying and construction staking for the project with no additional compensation.
3. Location of hydrants and water meters shall be determined in the field by City of West Linn prior to construction.
5. Drain abandoned pipes and plug watertight. Plug abandoned pipes with gasketed mechanical plugs or grout seals, as directed.
6. All new water main and services shall be tested and approved prior to connection. All tests to follow West Linn Standard Section 403.
7. Water used for construction must be filled at the designated tanker fill site located next to 1970 8th Ave. - No hydrant meters will be provided
8. Contractor shall provide ingress and egress to residential driveways with limited delay.
9. Working Hours: 7:00 AM - 5:00 PM Monday - Friday  
9:00 AM - 5:00 PM Saturday - Sunday & Holidays

**ADDITIONAL NOTES:**

1. Contractor shall be responsible for all construction surveying and construction staking. Final grades as determined by City Engineer.
2. Asphalt concrete pavement repair shall include aggregate base backfill/removal as necessary for meeting final grade.
3. All existing asphalt/concrete shall be sawcut for removals with no additional compensation.

CONTRACTOR

NAME: -N/A  
ADDRESS: -N/A  
PHONE: -N/A  
FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM  
General Notes

PROJECT NO.: PW-14-02  
DESIGNED BY: KLE  
DRAWN BY: NBRENNAN  
CHECKED BY: L CALVERT  
DATE: 5/14/2014

REVISION	
DATE	DESCRIPTION

GENERAL NOTES  
**GN**



CITY OF WEST LINN  
 22500 SALAMO ROAD  
 WEST LINN, OREGON 97068  
 WWW.WESTLINNOREGON.GOV  
 PHONE: (503) 722-5500  
 FAX: (503) 656-4106

CONTRACTOR

NAME:  
 ADDRESS:  
 PHONE:  
 FAX:

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
115	6 INCH 11.5° MJ ELBOW, RESTRAINED JOINT	EA	1
45	6 INCH 45° MJ ELBOW, RESTRAINED JOINT	EA	4
6	6" DUCTILE IRON PIPE	LF	100
8	8" DUCTILE IRON PIPE	LF	50
12	12" DUCTILE IRON PIPE	LF	1050
6V	6" GATE VALVE, VB & C, FLG x MJ PER DETAIL WL-411	EA	1
8V	8" GATE VALVE, VB & C, FLG x MJ PER DETAIL WL-411	EA	1
12V	12" GATE VALVE, VB & C, FLG x MJ PER DETAIL WL-411	EA	3
126	12" x 12" x 6" FLG TEE	EA	1
128	12" x 12" x 8" FLG TEE	EA	1
312	12" x 12" x 12" x 6" FLG CROSS	EA	1
10R	12" x 10" REDUCER	EA	1
12R	12" x 6" REDUCER	EA	3
1	NEW METER & BOX PER WL-DETAIL 402.	EA	3
34	FIRE HYDRANT W/VALVE, VB & C, FLG x MJ PER DETAIL WL-401	EA	2
82	THRUST BLOCK, PER DETAIL WL-406	EA	3

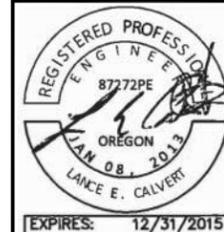
GENERAL CONSTRUCTION NOTES

- 1 CONNECT NEW WATERLINE TO EXISTING WATERLINE
- 2 EXISTING WATERLINE TO BE ABANDONED IN PLACE
- 3 CONTRACTOR TO REMOVE ALL EXISTING METER BOXES, VALVE BOXES, AND HYDRANTS. SALVAGE TO CITY OF WEST LINN (TYP.)

2014 ROAD PROGRAM  
 WATER LINE REPLACEMENT

Blankenship Rd  
 From Johnson Rd to Debok Rd

DATE	DESCRIPTION
5/30/2014	New Note
8/4/2014	New Alignment of Waterline

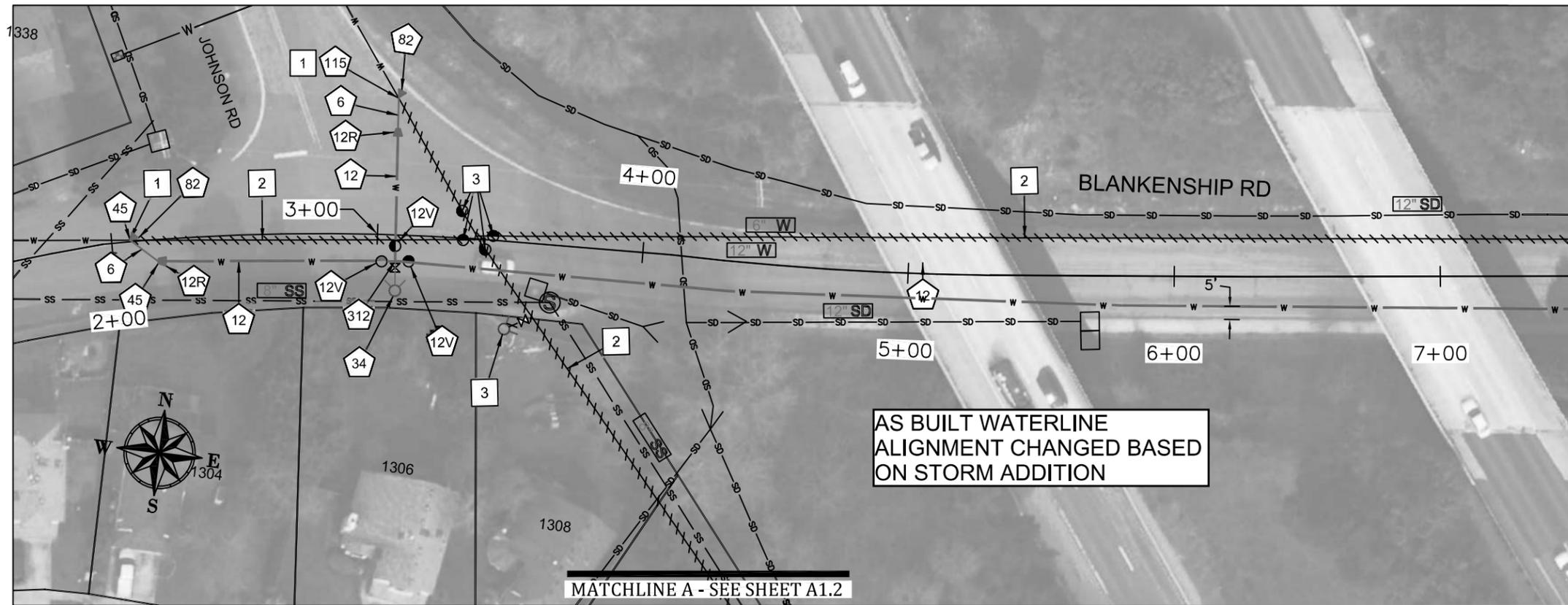


PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: KLE  
 CHECKED BY: LCALVERT  
 DATE: 04/15/2014

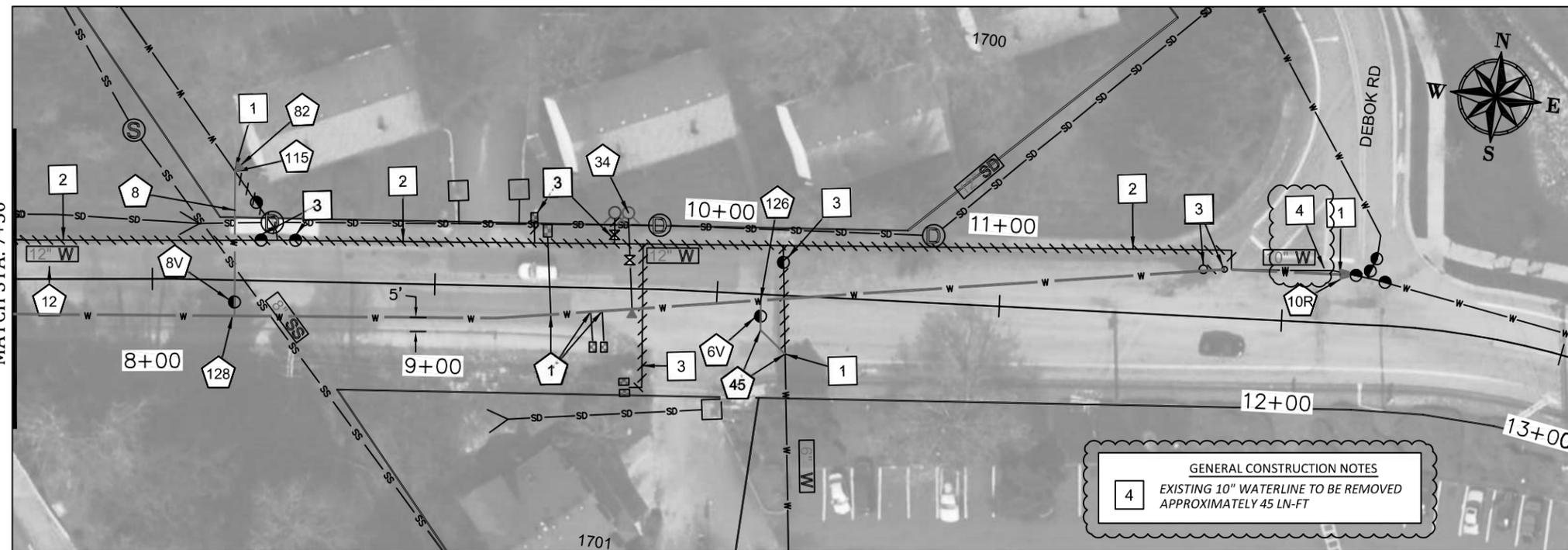
SITE PLAN

SCALE:

A1.1



MATCH STA: 7+50



MATCH STA: 7+50

GENERAL CONSTRUCTION NOTE  
 WATER METER AND FIRE HYDRANT LOCATIONS  
 TO BE DETERMINED IN FIELD BY CITY OF WEST  
 LINN PRIOR TO CONSTRUCTION.





**City of West Linn**

CITY OF WEST LINN  
22500 SALAMO ROAD  
WEST LINN, OREGON 97068  
WWW.WESTLINNOREGON.GOV  
PHONE: (503) 722-5500  
FAX: (503) 656-4106

**CONTRACTOR**

NAME:  
ADDRESS:  
PHONE:  
FAX:

**CONSTRUCTION NOTES**

NO	DESCRIPTION	UNIT	QTY
1	NEW METER & BOX PER WL-DETAIL 402.	EA	3
2	INSTALL BLOW-OFF, PER DETAIL WL-404A	EA	1
4	4" DUCTILE IRON PIPE	LF	170
4V	4" GATE VALVE, VB & C, FLG x MJ PER DETAIL WL-411	EA	1
64	6" x 6" x 4" FLG TEE	EA	1
34	FIRE HYDRANT W/VALVE, VB & C, FLG x MJ PER DETAIL WL-401	EA	1
90	6" - 90° ELBOW, RESTRAINED JOINT	EA	1
45	4 INCH 45° MJ ELBOW, RESTRAINED JOINT	EA	1
82	THRUST BLOCK, PER DETAIL WL-406	EA	2

**GENERAL CONSTRUCTION NOTES**

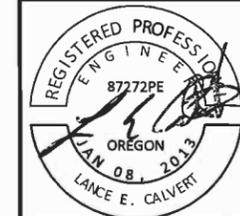
- 1 CONNECT NEW WATERLINE TO EXISTING WATERLINE
- 2 EXISTING WATERLINE TO BE ABANDONED IN PLACE
- 3 CONTRACTOR TO REMOVE ALL EXISTING METER BOXES, VALVE BOXES, AND HYDRANTS. SALVAGE TO CITY OF WEST LINN (TYP.)
- 4 WATER METER AND FIRE HYDRANT LOCATIONS TO BE DETERMINED IN FIELD BY CITY OF WEST LINN PRIOR TO CONSTRUCTION.

**2014 ROAD PROGRAM  
WATERLINE REPLACEMENT**

Blankenship Rd  
From Johnson Rd to Debok Rd

**REVISION**

DATE	DESCRIPTION



PROJECT NO.: PW-14-02  
DESIGNED BY: KLE  
DRAWN BY: KLE  
CHECKED BY: LCALVERT  
DATE: 04/15/2014

SITE PLAN

SCALE:

**A1.2**

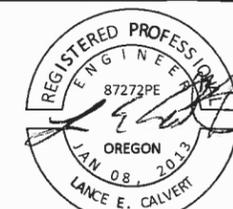
EXPIRES: 12/31/2015



MATCHLINE A - SEE SHEET A1.1



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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A

PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

Blankenship Road  
 From Johnson Road to Virginia Lane

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

REVISION  
 DATE DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

C1.1

BLANKENSHIP ROAD - PAVING						
NO.	Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
1	10+00	11+24	Removal of Curbs	FOOT	190	00310
10	10+00	11+24	Removal of Walks and Driveways	SQ-YD	210	00310
4	2+24	17+43	General Excavation (4" Excavation of Existing Surfaces)	CY	3400	00330
01	12+75	17+43	Cold Plane Pavement Removal, 0-1 Inch Deep Per Section 15	SQ-YD	327	00620
1.5	2+25	4+07	Cold Plane Pavement Removal, 2 Inch Deep Per Section 111	SQ-YD	185	00620
8	2+24	12+62	Treated Subgrade, 8 Inch Thick	SQ-YD	3915	00334
	2+24	12+62	Portland Cement	TON	104	00344
88			8" Subgrade Stabilization	SQ-YD	100	00331
3	12+82 14+68	13+22 16+98	3" Asphalt Concrete Pavement Repair	SQ-YD	139	00748
	12+82 14+68	13+22 16+98	Level 2, 3", 3/4" Dense, MHMAC	TON	16	00744
3	2+24	17+43	Level 2, 3", 3/4" Dense, MHMAC	TON	885	00744
1.5	2+24	17+43	Level 2, 1.5", 1/2" Dense, MHMAC, With Fiber	TON	540	00744
MH	2+24	17+43	Minor Adjustment of Manhole (Contact Utility Provider)	EA	2	00490
CB	2+24	17+43	Adjusting Stormwater Inlet	EA	2	00490
W	2+24	17+43	Adjusting Boxes (City to provide Contractor with Valve Boxes)	EA	16	00490
U	2+24	17+43	Adjusting Boxes (Contact Utility Provider)	EA	3	00490
RW	2+24	17+43	Remove Water Valve and Valve Box	EA	6	

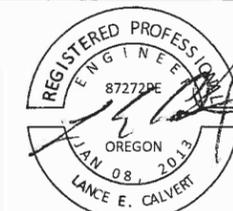
BLANKENSHIP RD WATER IMPROVEMENT				
ITEM	ODOT SPEC	Description of Material and/or services	UNIT	QUANTITY
1	01140	6 INCH CONNECTION TO EXISTING 6 INCH MAIN	EACH	5
2	01140	12 INCH CONNECTION TO EXISTING 6 INCH MAIN	EACH	1
3	01140	4 INCH DIP, FITTINGS* & COUPLINGS, BACKFILL	FOOT	90
4	01140	4 INCH DIP, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND BACKFILL	FOOT	80
5	01140	6 INCH DIP, FITTINGS* & COUPLINGS, BACKFILL	FOOT	65
6	01140	6 INCH DIP, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND BACKFILL	FOOT	40
7	01140	8 INCH DIP, FITTINGS* & COUPLINGS, BACKFILL	FOOT	40
8	01140	12 INCH DIP, FITTINGS* & COUPLINGS, BACKFILL	FOOT	810
9	01140	12 INCH DIP, FITTINGS* & COUPLINGS W/ RESTRAINED JOINTS AND BACKFILL	FOOT	300
10	01170	1 INCH WATER SERVICE CONNECTION	EACH	6
11	01150	4" GATE VALVE, VB & C, FLG x MJ PER DETAIL WL-411	EACH	1
12	01150	6" GATE VALVE, VB & C, FLG x MJ PER DETAIL WL-411	EACH	1
13	01150	12" GATE VALVE, VB & C, FLG x MJ PER DETAIL WL-411	EACH	6
14	01140	4 INCH DIP EQUIVALENT PIPE LENGTH	FOOT	4
15	01140	6 INCH DIP EQUIVALENT PIPE LENGTH	FOOT	36
16	01140	8 INCH DIP EQUIVALENT PIPE LENGTH	FOOT	8
17	01140	12 INCH DIP EQUIVALENT PIPE LENGTH	FOOT	72
18	01140	THRUST BLOCKING	EACH	5
19	01160	HYDRANT ASSEMBLY	EACH	3
20	1140	BLOW-OFF	EACH	1

\*FITTING EQUIVALENT PIPE LENGTH FROM ODOT SPEC 01140

BLANKENSHIP RD STORM DRAINAGE IMPROVEMENT				
	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
1	12" Concrete Pipe	FOOT	80	00445
2	18" Concrete Pipe	FOOT	410	00445
3	Slope End Sections, 18"	EACH	1	00445
4	Slope End Section, 24"	EACH	1	00445
5	Concrete Inlet, Type G1	EACH	1	00470
6	Concrete Manholes, Shallow	EACH	2	00470
7	Manhole Over Existing Structure	EACH	1	00470
8	Concrete Inlet Type D	EACH	1	00470
9	Ditch Clearing and Grubbing	LS	1	00320



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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A

PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

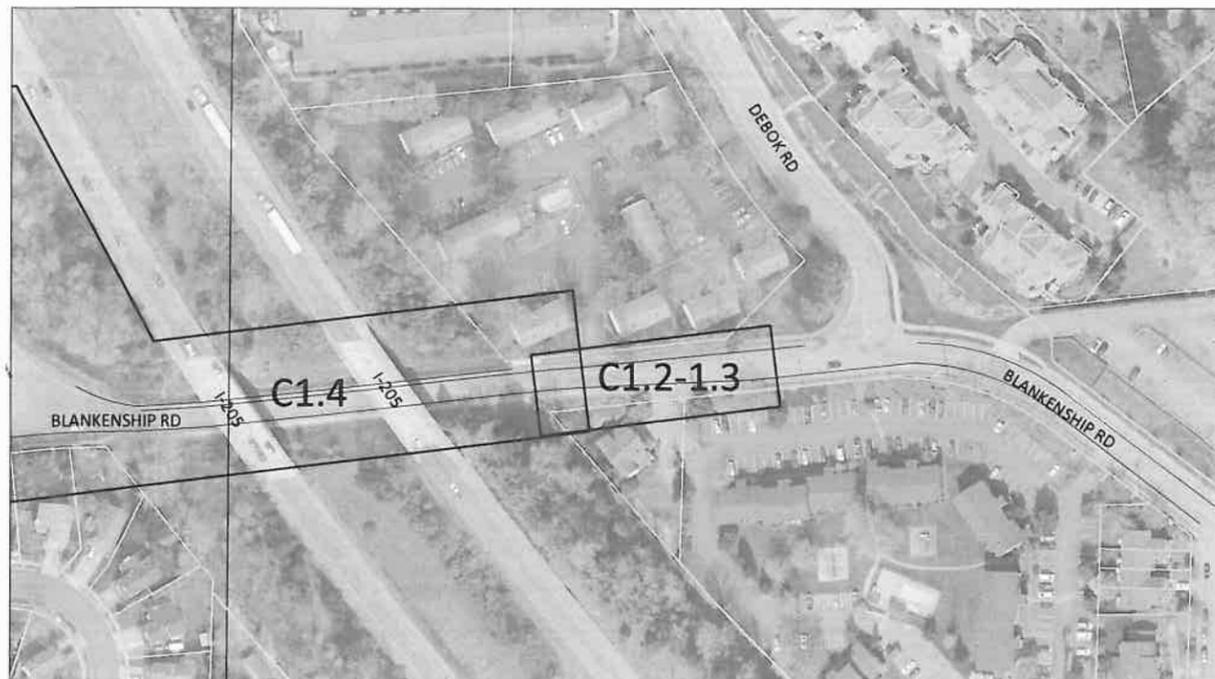
Blankenship Road  
 Stormwater Improvements

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

REVISION  
 DATE DESCRIPTION

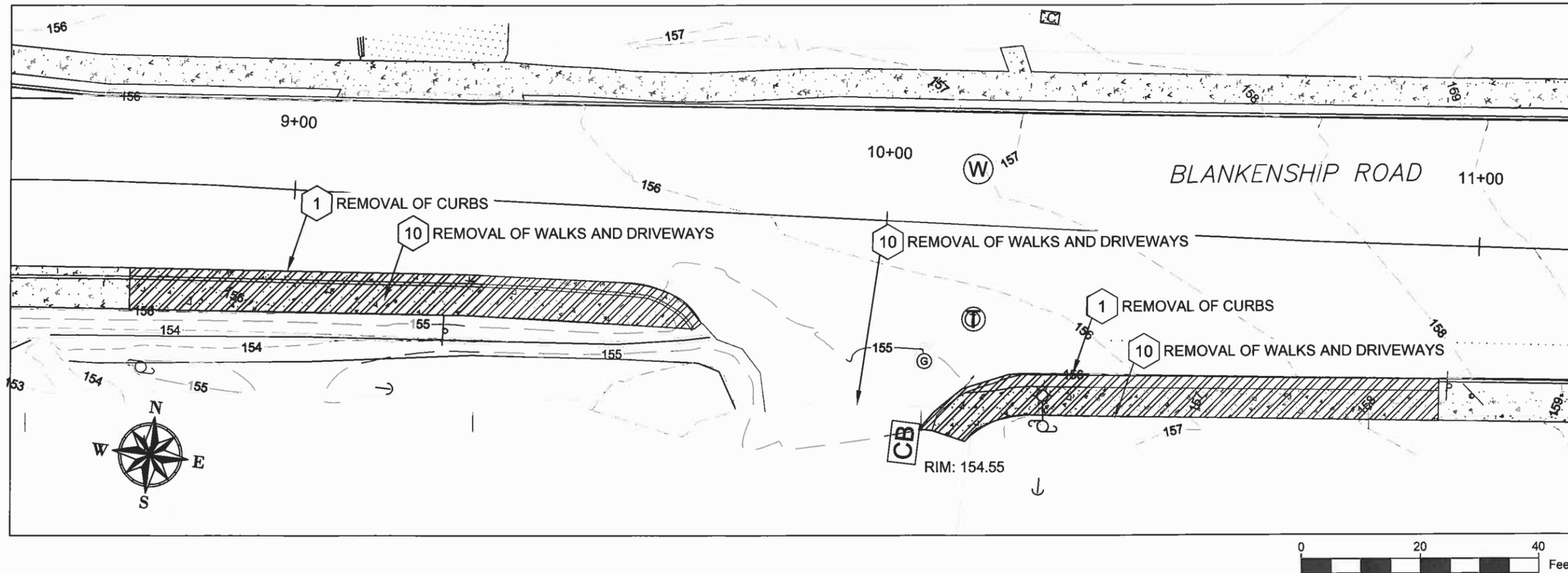
PAVING PLAN  
 SCALE: 1" = 50' Horizontal

C1.2



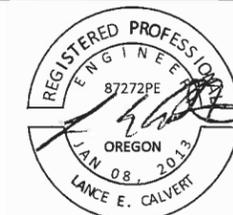
CONSTRUCTION NOTES - BLANKENSHIP ROAD						
NO.	Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
1	8+72	10+84	Removal of Curbs	FOOT	190	00310
10	8+72	10+84	Removal of Walks and Driveways	SQ-YD	210	00310

CURB AND SIDEWALK REMOVAL





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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A

PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

PROGRAM

Blankenship Road  
 From Johnson Road to Virginia Lane

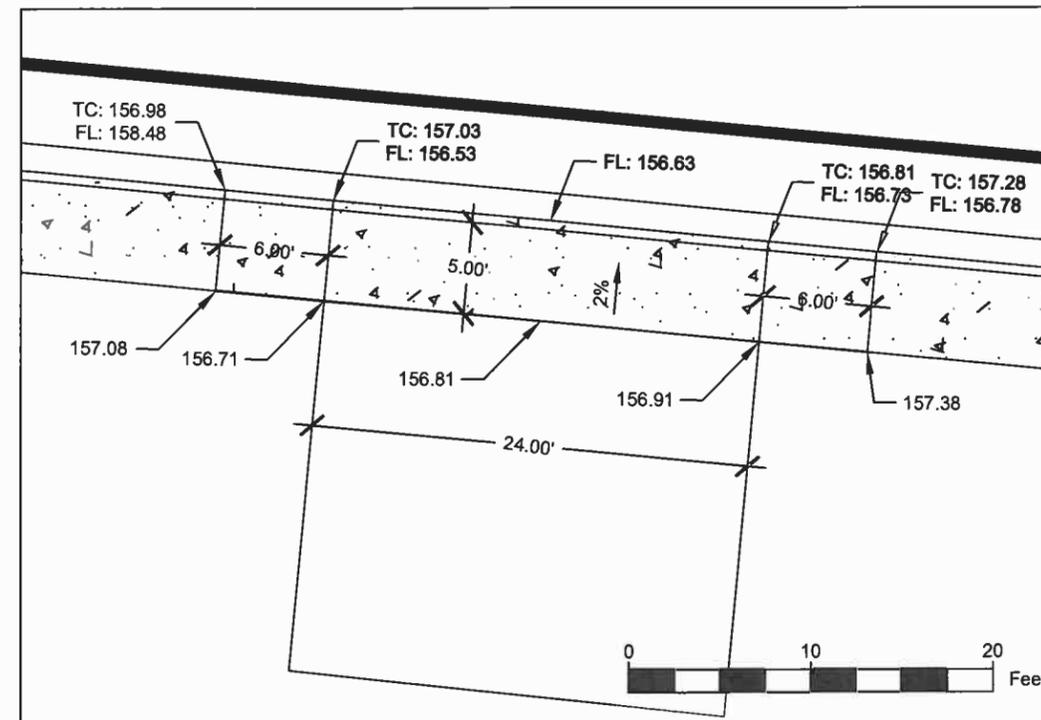
PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

REVISION  
 DATE DESCRIPTION

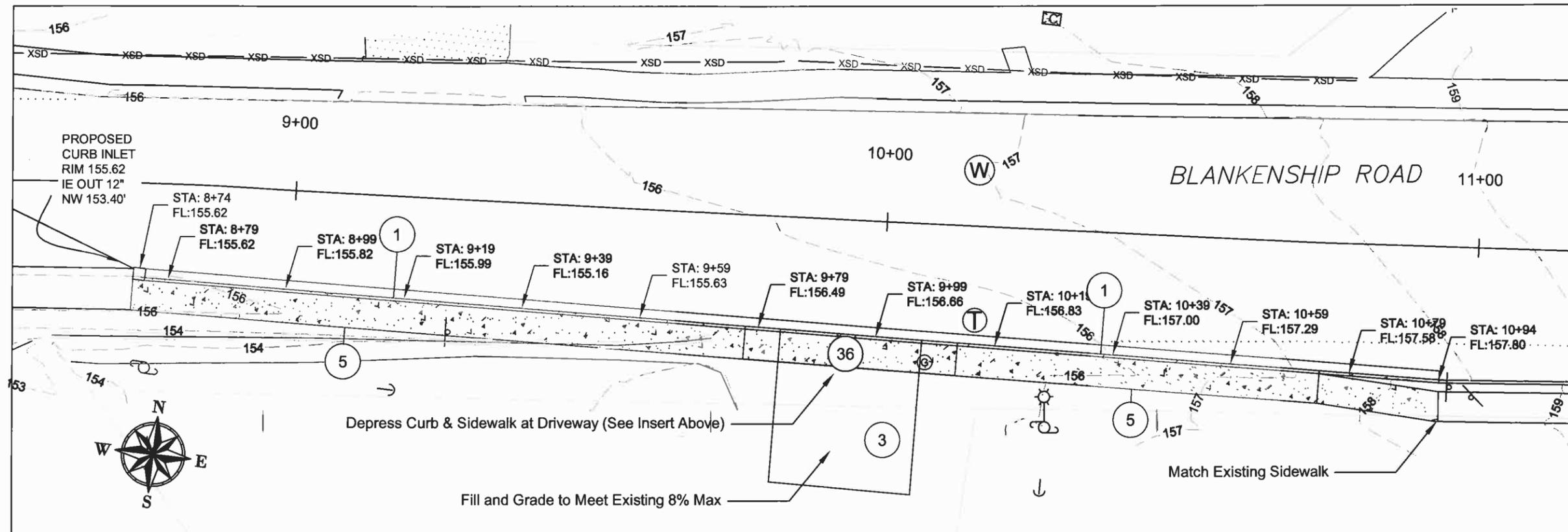
PAVING PLAN  
 SCALE: 1" = 50' Horizontal

C1.3

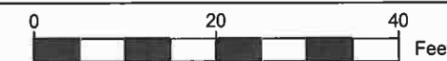
Number	Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
1	8+72 10+13	9+77 10+84	Concrete Curb and Gutter	FOOT	200	00759
5	8+72 10+13	9+77 10+84	Concrete Walks	SQ-FT	1000	00759
36	9+77	10+13	Concrete Driveways, WL-504B	SQ-FT	125	00759
3	9+77	10+13	Level 2, 3", 3/4" Dense MHMAC	TON	10	00744



36 COMMERCIAL DRIVEWAY ELEVATIONS, WL-504B

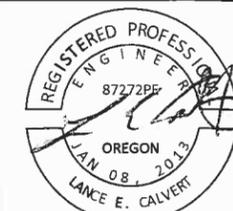


NEW SIDEWALK WITH BOTTOM OF CURB ELEVATIONS





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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM  
 Blankenship Road  
 From Johnson Road to Virginia Lane

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCAVERT  
 DATE: 5/14/2014

REVISION

DATE	DESCRIPTION

PAVING PLAN

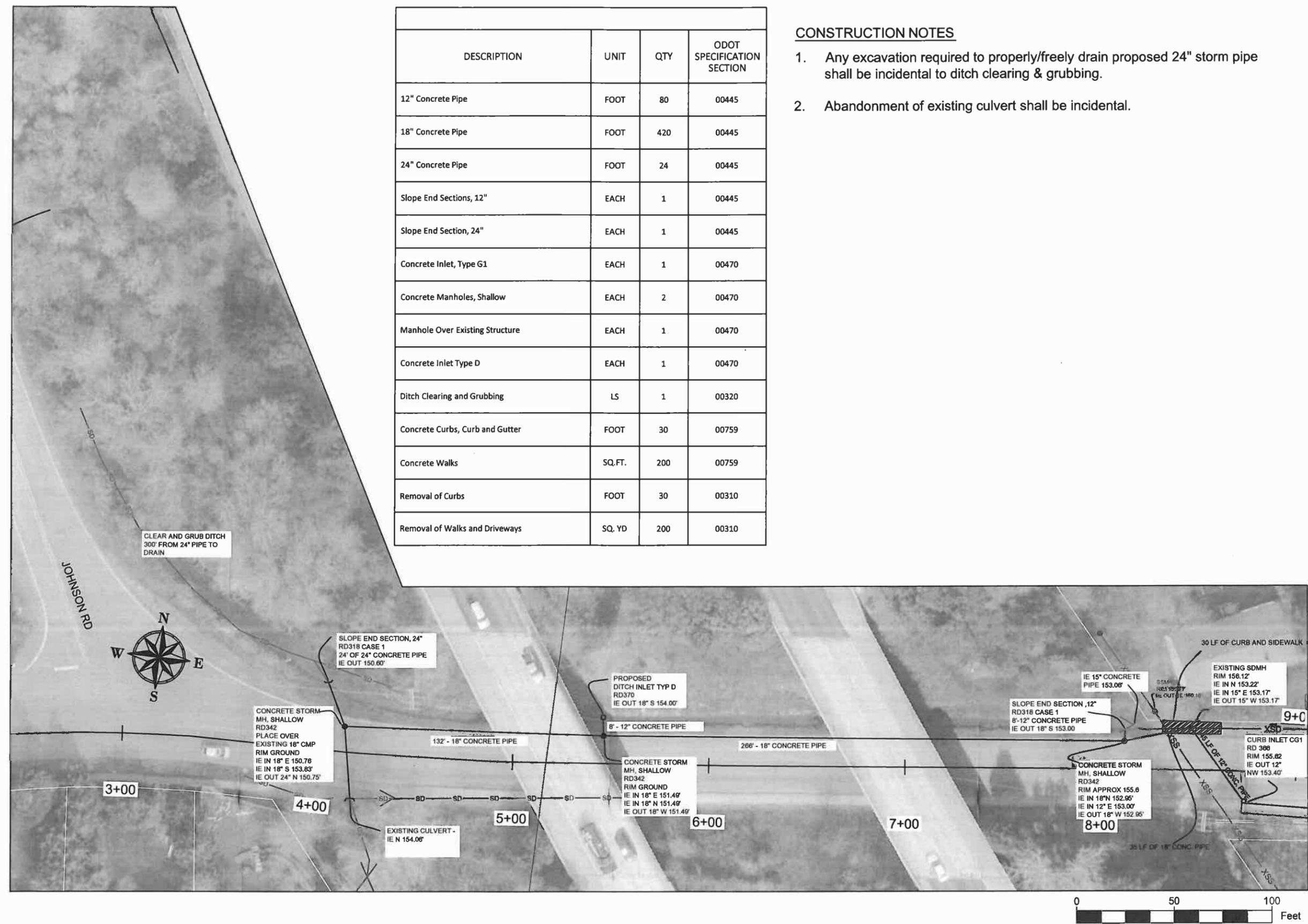
SCALE: 1" = 50' Horizontal

C1.4

DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
12" Concrete Pipe	FOOT	80	00445
18" Concrete Pipe	FOOT	420	00445
24" Concrete Pipe	FOOT	24	00445
Slope End Sections, 12"	EACH	1	00445
Slope End Section, 24"	EACH	1	00445
Concrete Inlet, Type G1	EACH	1	00470
Concrete Manholes, Shallow	EACH	2	00470
Manhole Over Existing Structure	EACH	1	00470
Concrete Inlet Type D	EACH	1	00470
Ditch Clearing and Grubbing	LS	1	00320
Concrete Curbs, Curb and Gutter	FOOT	30	00759
Concrete Walks	SQ.FT.	200	00759
Removal of Curbs	FOOT	30	00310
Removal of Walks and Driveways	SQ. YD	200	00310

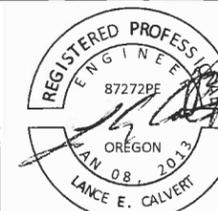
CONSTRUCTION NOTES

- Any excavation required to properly/freely drain proposed 24" storm pipe shall be incidental to ditch clearing & grubbing.
- Abandonment of existing culvert shall be incidental.





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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A

PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

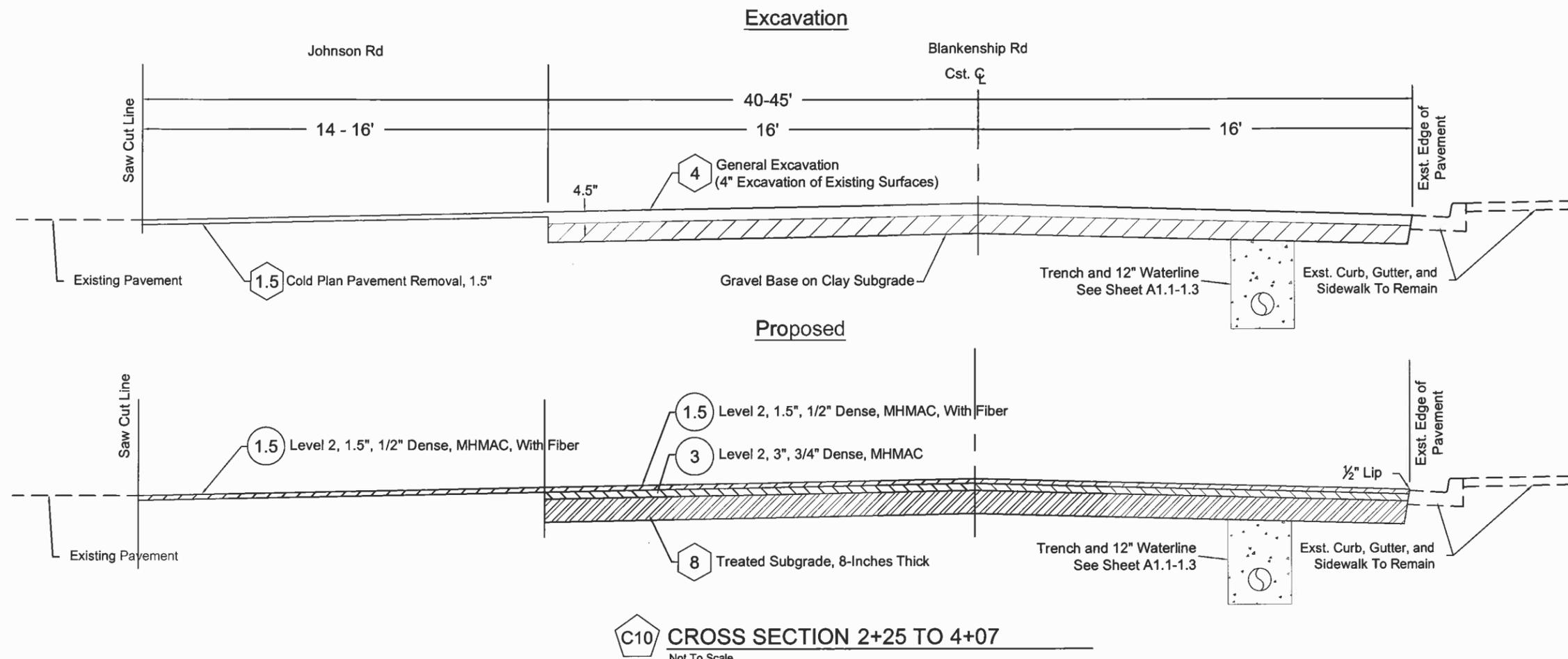
Blankenship Road  
 From Johnson Road to Virginia Lane

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

REVISION  
 DATE DESCRIPTION

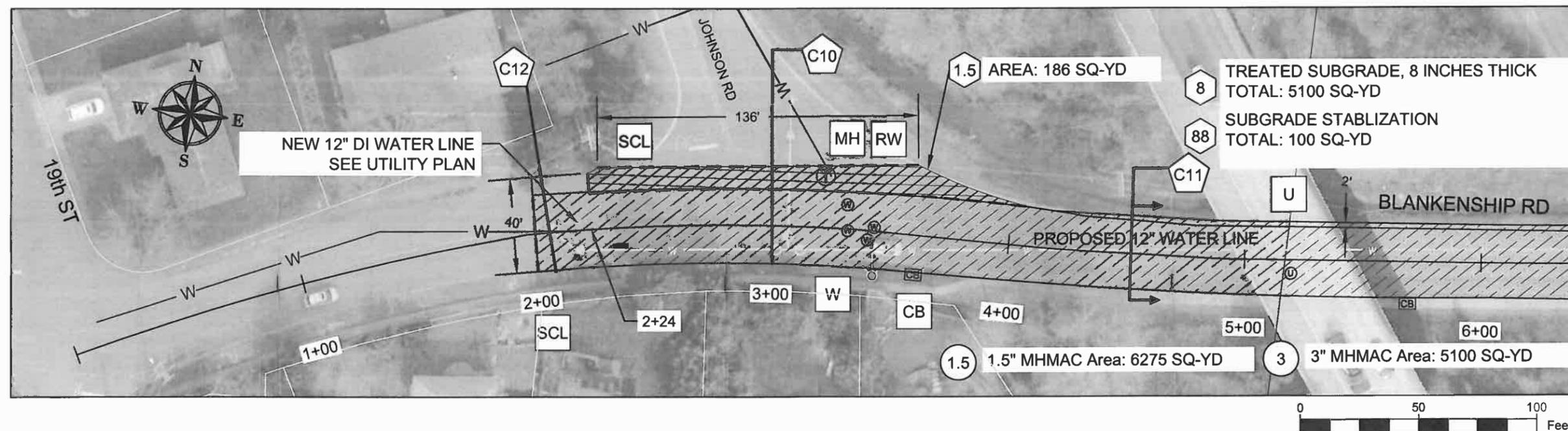
PAVING PLAN  
 SCALE: 1" = 50' Horizontal

C1.5



C10 CROSS SECTION 2+25 TO 4+07  
 Not To Scale

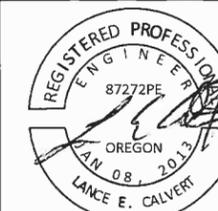
NOTE: TREATED SUBGRADE SHALL BE WITH PORTLAND CEMENT AT A RATE OF 5% BY WEIGHT



MATCH STA: 6+40



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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

PROGRAM

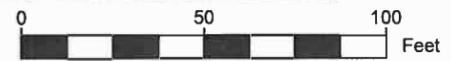
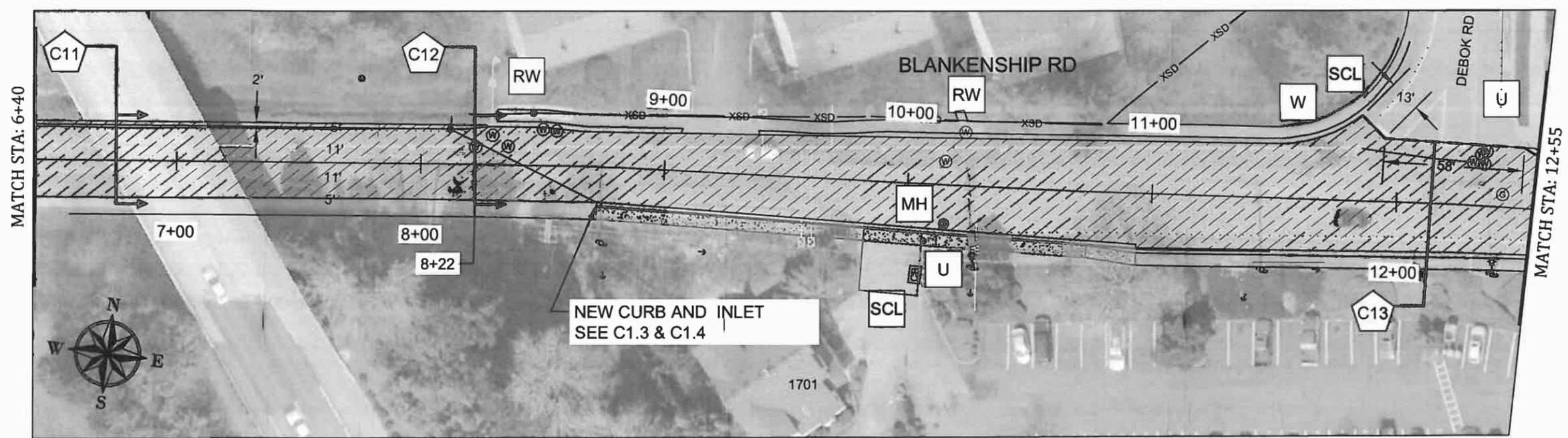
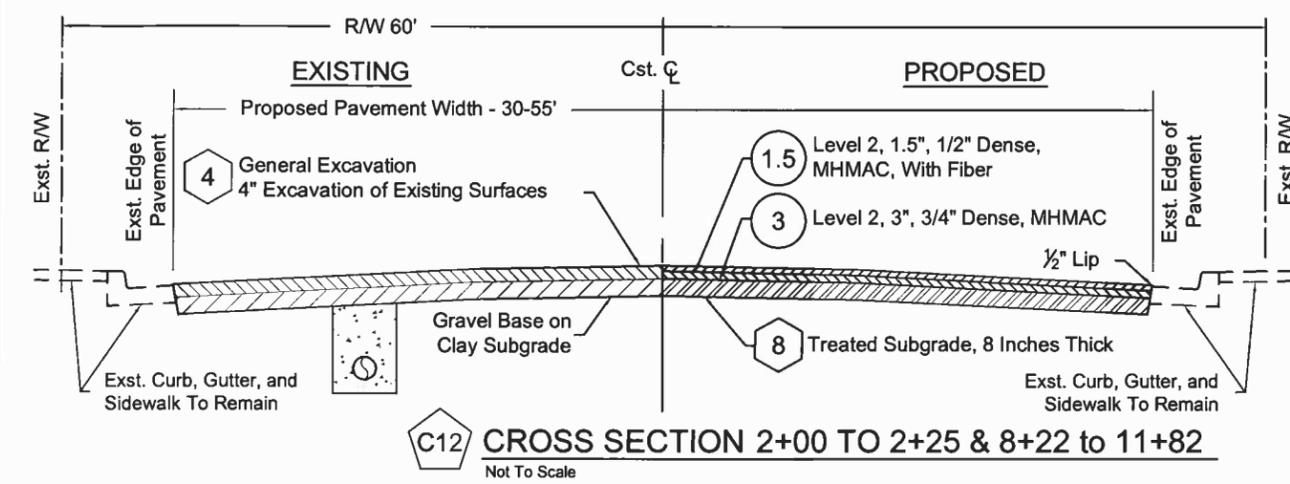
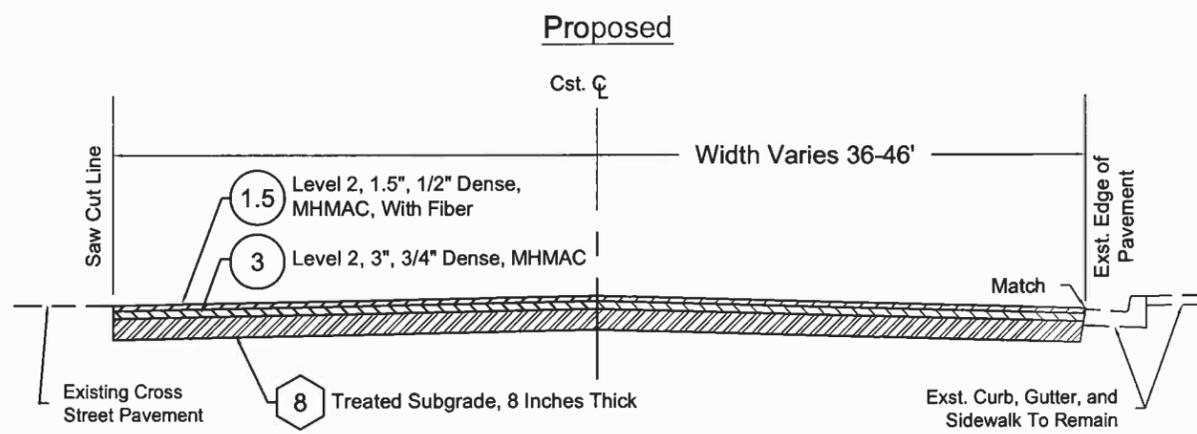
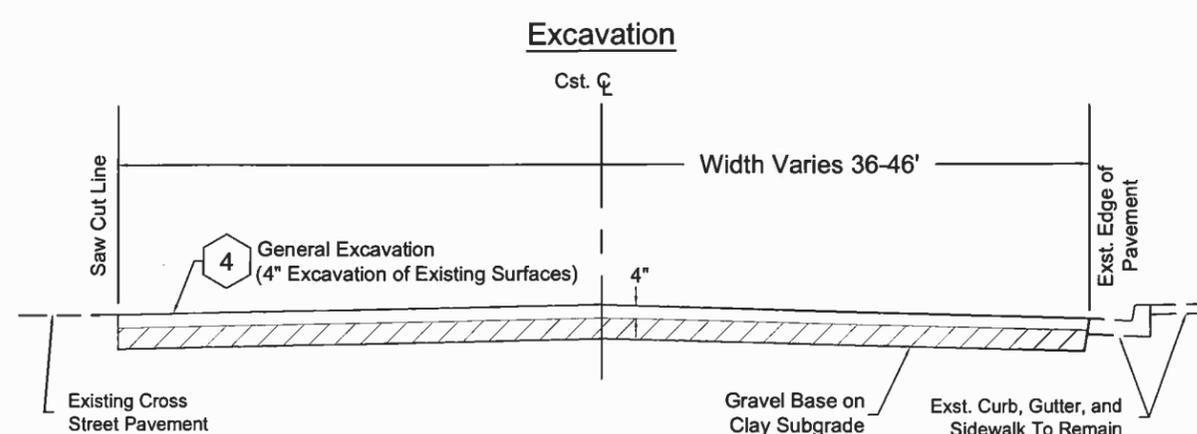
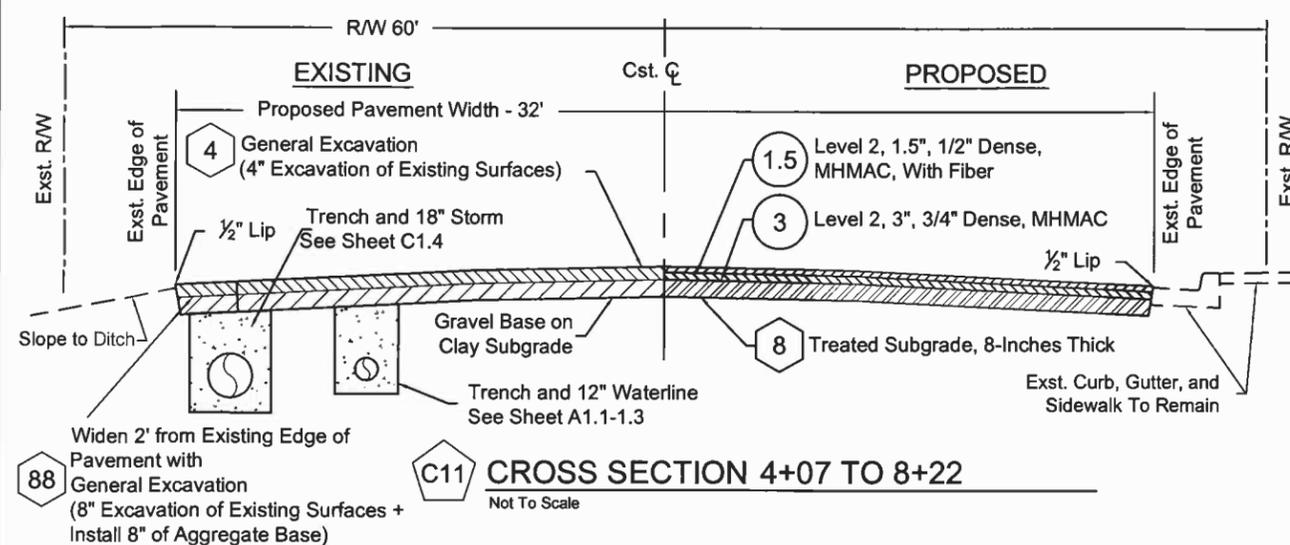
Blankenship Road  
 From Johnson Road to Virginia Lane

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

REVISION	
DATE	DESCRIPTION

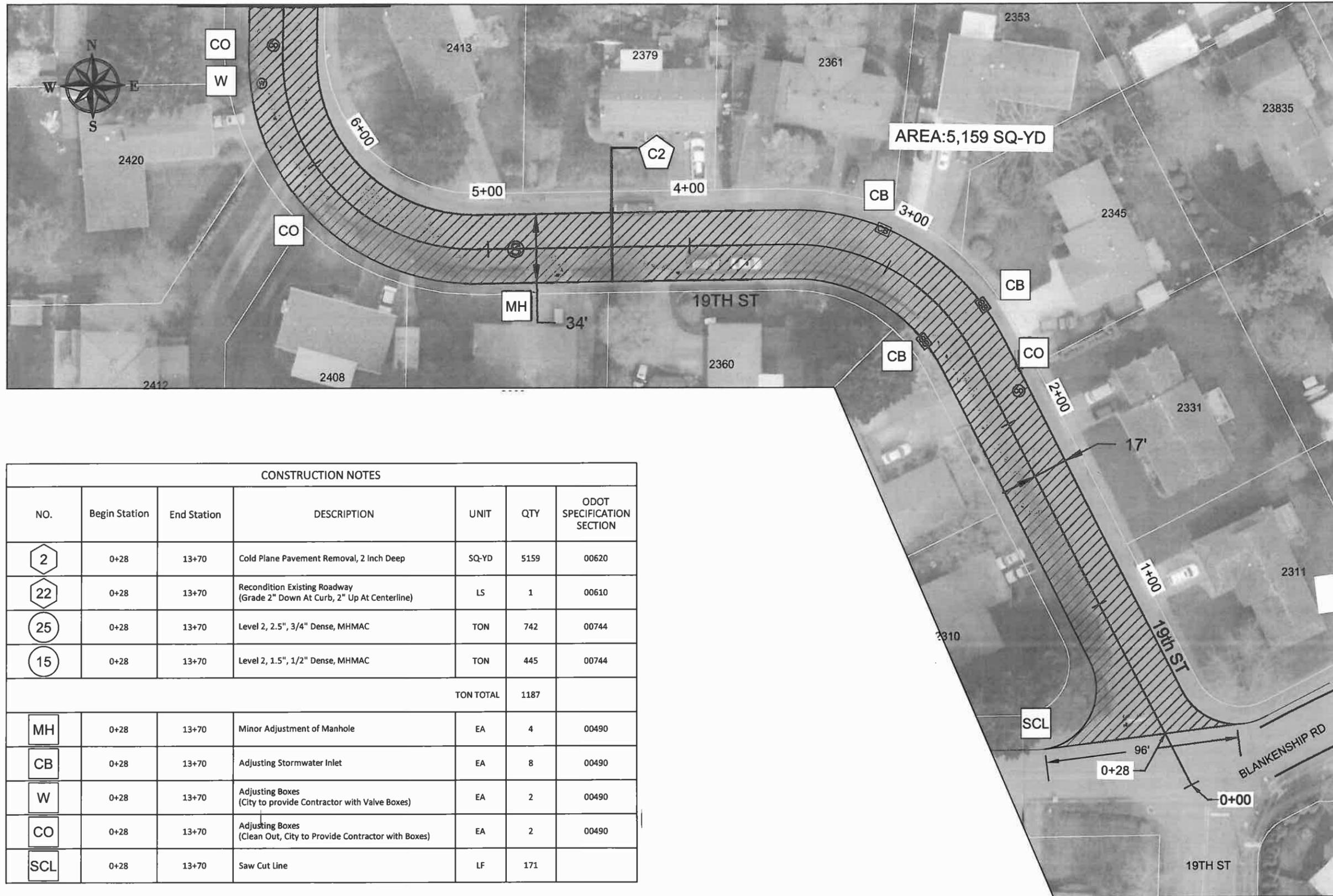
PAVING PLAN  
 SCALE: 1" = 50' Horizontal

C1.6





MATCH STA: 6+65



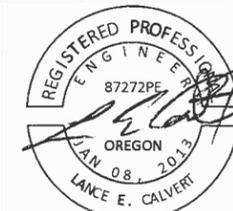
AREA: 5,159 SQ-YD

CONSTRUCTION NOTES

NO.	Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
2	0+28	13+70	Cold Plane Pavement Removal, 2 Inch Deep	SQ-YD	5159	00620
22	0+28	13+70	Recondition Existing Roadway (Grade 2" Down At Curb, 2" Up At Centerline)	LS	1	00610
25	0+28	13+70	Level 2, 2.5", 3/4" Dense, MHMAC	TON	742	00744
15	0+28	13+70	Level 2, 1.5", 1/2" Dense, MHMAC	TON	445	00744
TON TOTAL					1187	
MH	0+28	13+70	Minor Adjustment of Manhole	EA	4	00490
CB	0+28	13+70	Adjusting Stormwater Inlet	EA	8	00490
W	0+28	13+70	Adjusting Boxes (City to provide Contractor with Valve Boxes)	EA	2	00490
CO	0+28	13+70	Adjusting Boxes (Clean Out, City to Provide Contractor with Boxes)	EA	2	00490
SCL	0+28	13+70	Saw Cut Line	LF	171	



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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
ADDRESS: -N/A  
PHONE: -N/A  
FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

19TH STREET  
From Blankenship Rd to Johnson Rd

PROJECT NO.: PW-14-02  
DESIGNED BY: KLE  
DRAWN BY: NBRENNAN  
CHECKED BY: LCALVERT  
DATE: 5/14/2014

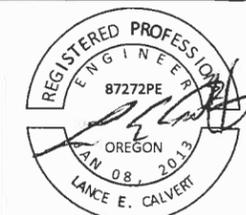
REVISION	DATE	DESCRIPTION

PAVING PLAN  
SCALE: 1" = 50' Horizontal

C2.1



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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A

PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

PROGRAM

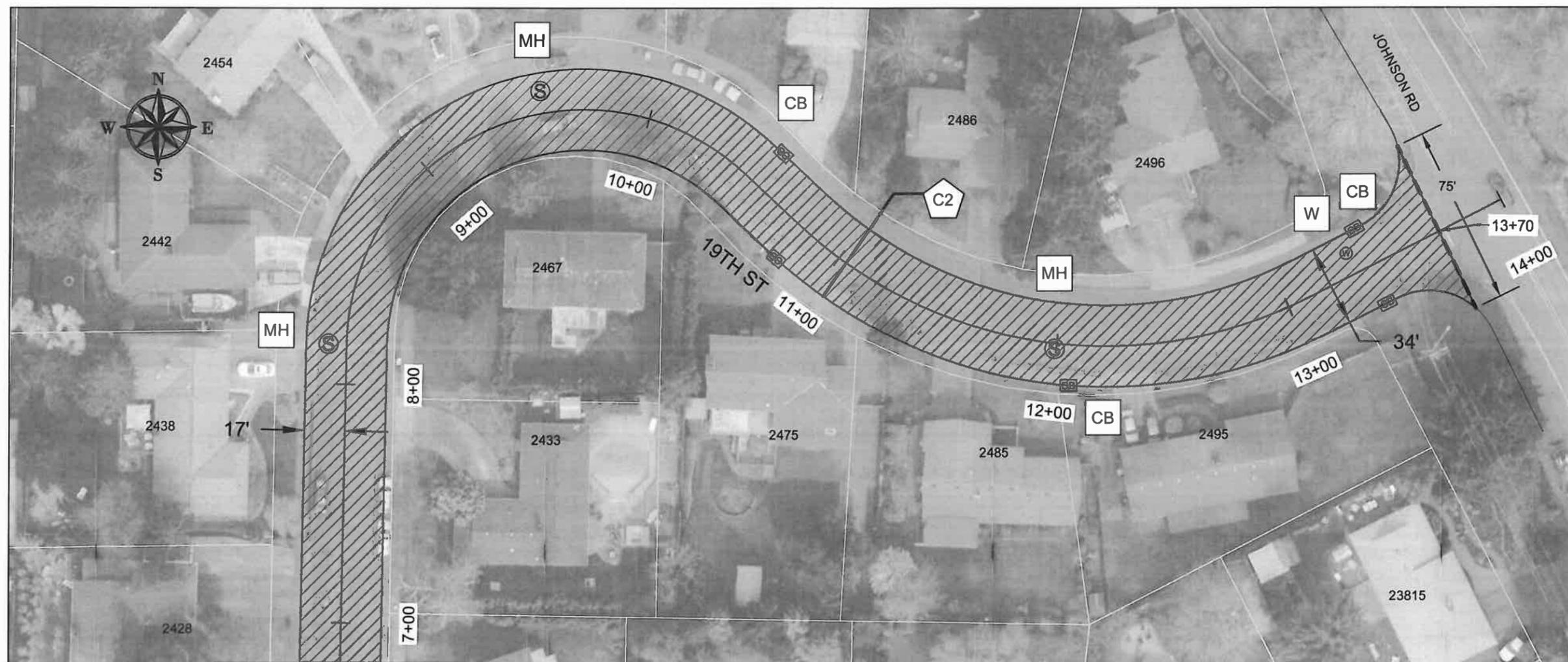
19TH STREET  
 From Blankenship Rd to Johnson Rd

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

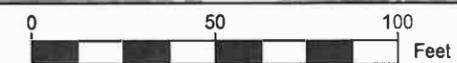
REVISION	
DATE	DESCRIPTION

PAVING PLAN  
 SCALE: 1" = 50' Horizontal

C2.2



MATCH STA: 6+65





CITY OF WEST LINN  
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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A

PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

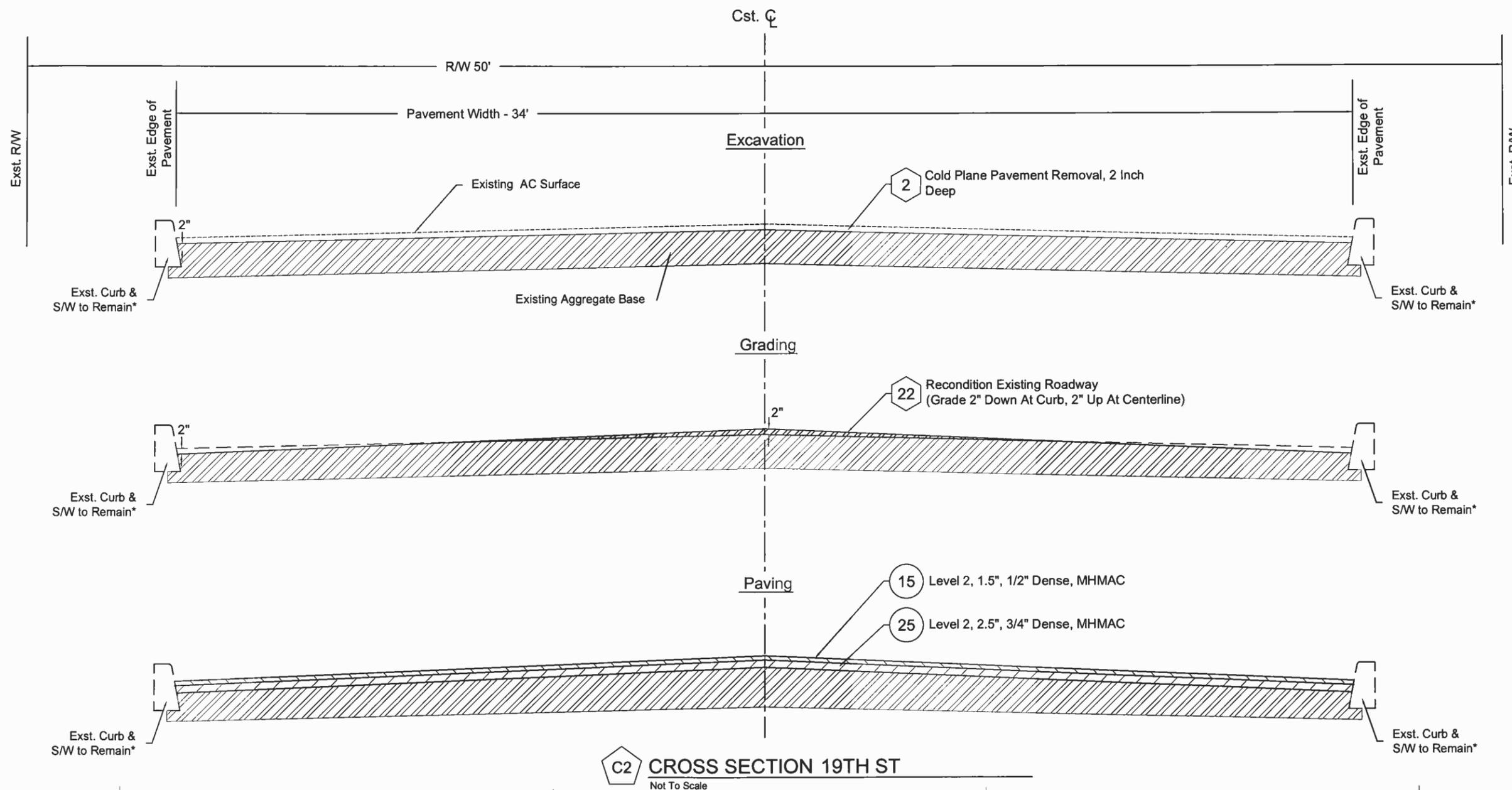
19TH STREET  
 From Blankenship Rd to Johnson Rd

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

REVISION	
DATE	DESCRIPTION

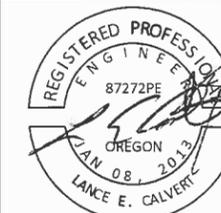
PAVING PLAN  
 SCALE: 1" = 50' Horizontal

C2.3





CITY OF WEST LINN  
 22500 SALAMO ROAD  
 WEST LINN, OREGON 97068  
 WWW.WESTLINNOREGON.GOV  
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 FAX: (503) 650-9041



EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A

PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

PROGRAM

Margery Street  
 From De Bok Ave to Cul-De-Sac

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

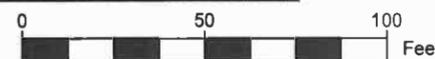
REVISION	
DATE	DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

C3.1

CONSTRUCTION NOTES						
NO.	Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
2	0+50	13+56	Cold Plane Pavement Removal, 2 Inch Deep	SQ-YD	5845	00620
22	0+50	13+56	Recondition Existing Roadway (Grade 2" Down At Curb, 2" Up At Centerline)	LS	1	00610
25	0+50	13+56	Level 2, 2.5", 3/4" Dense, MHMAC	TON	840	00744
15	0+50	13+56	Level 2, 1.5", 1/2" Dense, MHMAC	TON	504	00744
TON TOTAL					1344	
MH	0+50	13+56	Minor Adjustment of Manhole	EA	8	00490
CB	0+50	13+56	Adjusting Stormwater Inlet	EA	5	00490
W	0+50	13+56	Adjusting Boxes (City to provide Contractor with Valve Boxes)	EA	8	00490
SCL	0+50	13+70	Saw Cut Line	LF	84	





CITY OF WEST LINN  
 22500 SALAMO ROAD  
 WEST LINN, OREGON 97068  
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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

**2014 ROAD IMPROVEMENT PROGRAM**

**Margery Street**

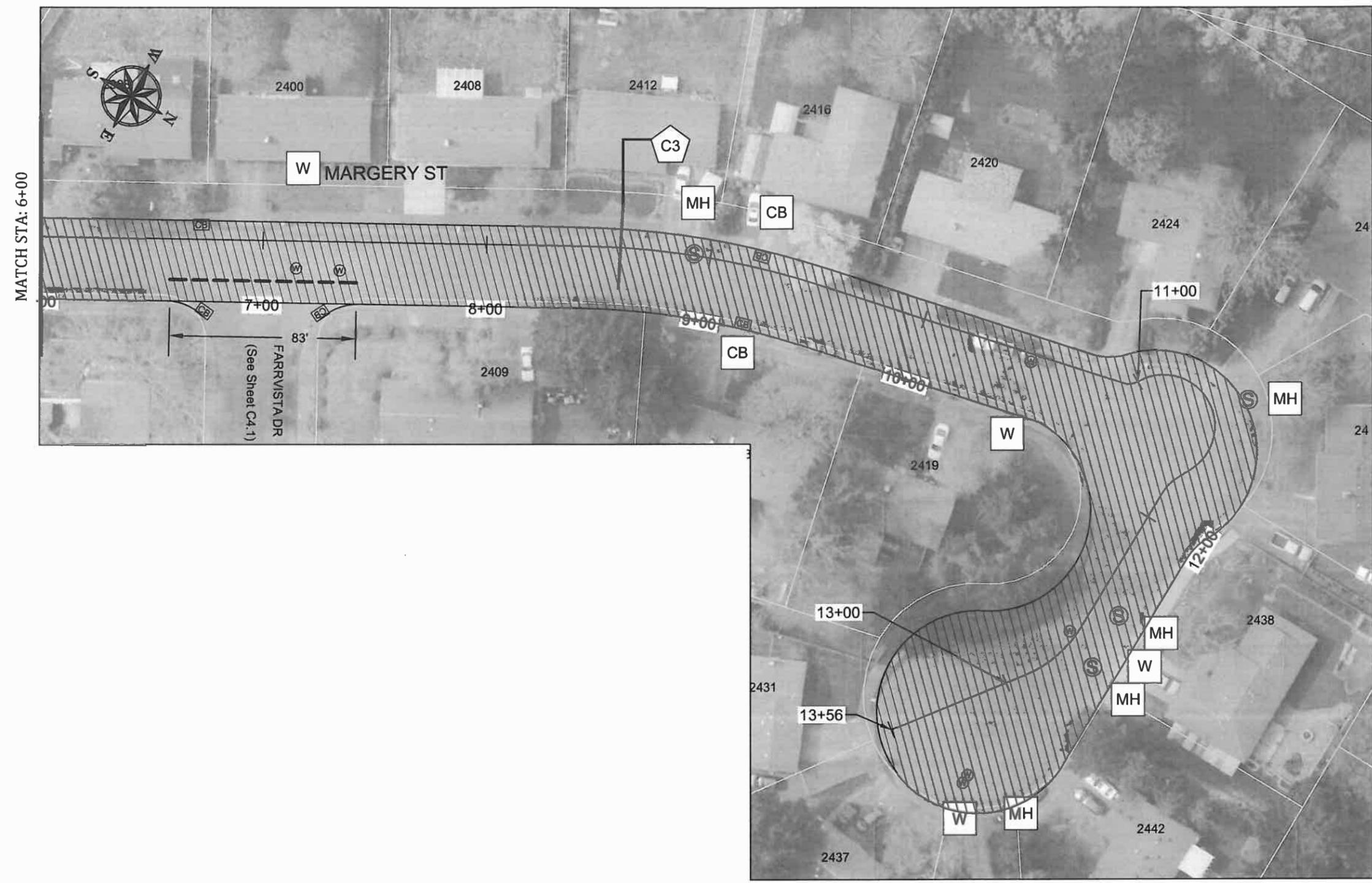
From De Bok Ave to Cul-De-Sac

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

REVISION	
DATE	DESCRIPTION

PAVING PLAN  
 SCALE: 1" = 50' Horizontal

**C3.2**



MATCH STA: 6+00

W MARGERY ST

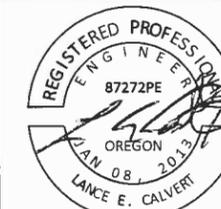
FARRVISTA DR  
 (See Sheet C4.1)

83'





CITY OF WEST LINN  
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 WEST LINN, OREGON 97068  
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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

Margery Street  
 From De Bok Ave to Cul-De-Sac

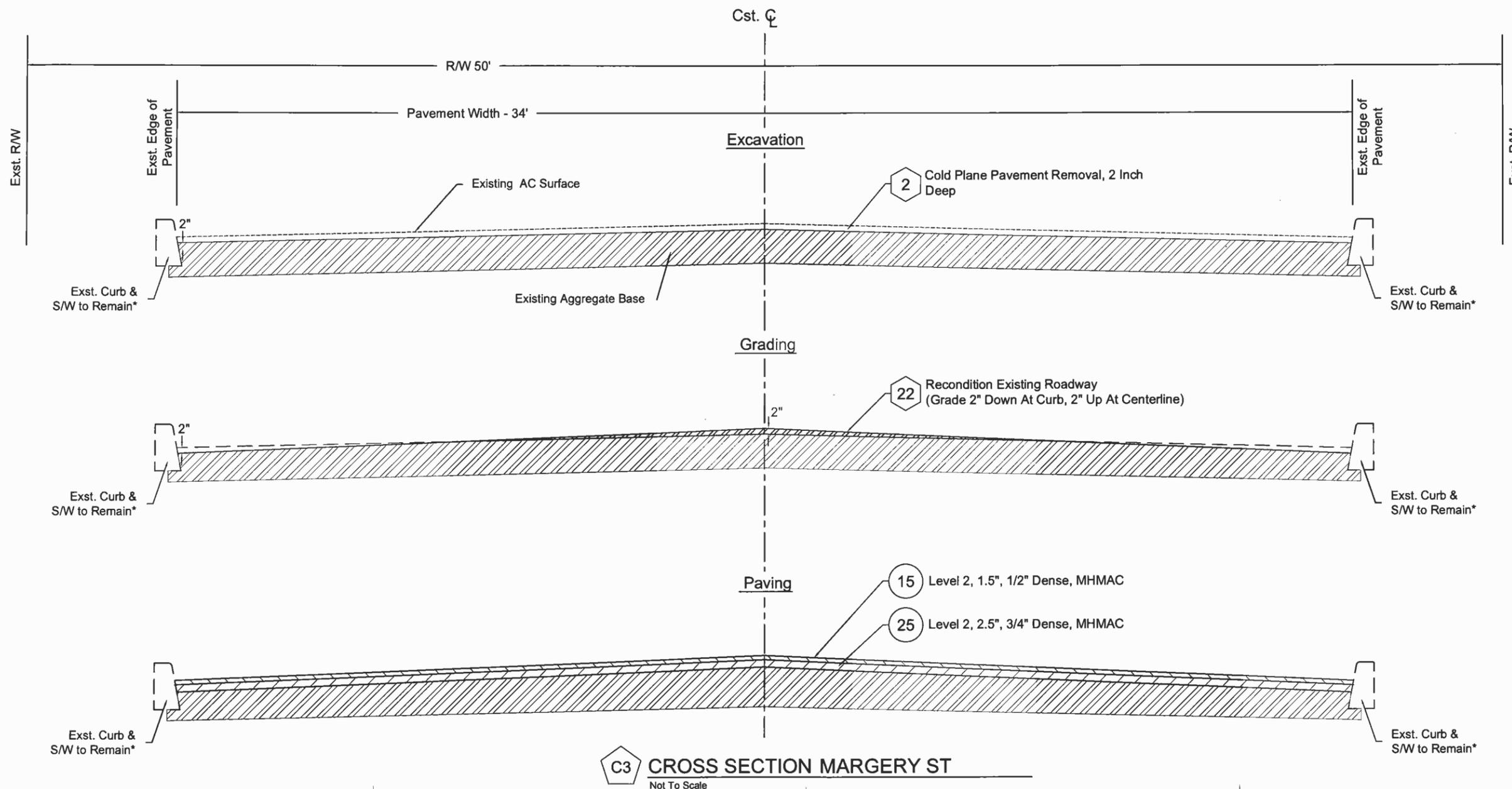
PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

DATE	REVISION DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

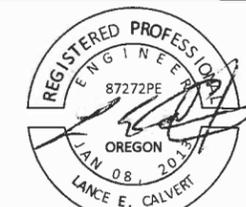
C3.3



C3 CROSS SECTION MARGERY ST  
 Not To Scale



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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

PROGRAM

Farrvista Drive  
 From Margery St to De Bok Ave

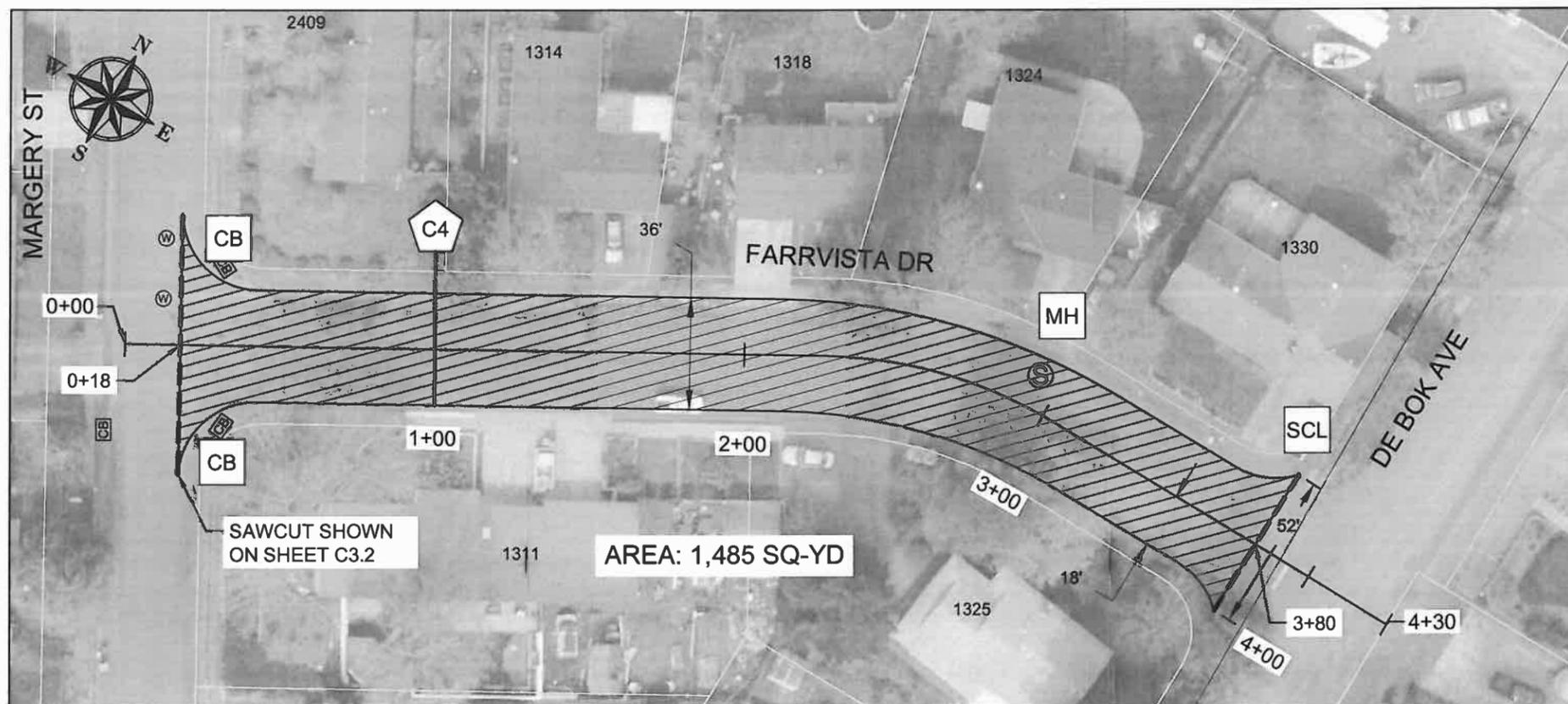
PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

REVISION	
DATE	DESCRIPTION

PAVING PLAN  
 SCALE: 1" = 50' Horizontal

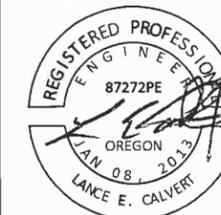
C4.1

CONSTRUCTION NOTES						
NO.	Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
2	0+18	3+80	Cold Plane Pavement Removal, 2 Inch Deep	SQ-YD	1485	00620
22	0+18	3+80	Recondition Existing Roadway (Grade 2" Down At Curb, 2" Up At Centerline)	LS	1	00610
25	0+18	3+80	Level 2, 2.5", 3/4" Dense, MHMAC	TON	213	00744
15	0+18	3+80	Level 2, 1.5", 1/2" Dense, MHMAC	TON	128	00744
TON Total					341	
MH	0+18	3+80	Minor Adjustment of Manhole	EA	1	00490
CB	0+18	3+80	Adjusting Stormwater Inlet	EA	2	00490
SCL	0+18	3+80	Saw Cut Line	LF	52	00490





CITY OF WEST LINN  
 22500 SALAMO ROAD  
 WEST LINN, OREGON 97068  
 WWW.WESTLINNOREGON.GOV  
 PHONE: (503) 567-0331  
 FAX: (503) 650-9041



EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A

PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

PROGRAM

Farrvista Drive  
 From Margery St to De Bok Ave

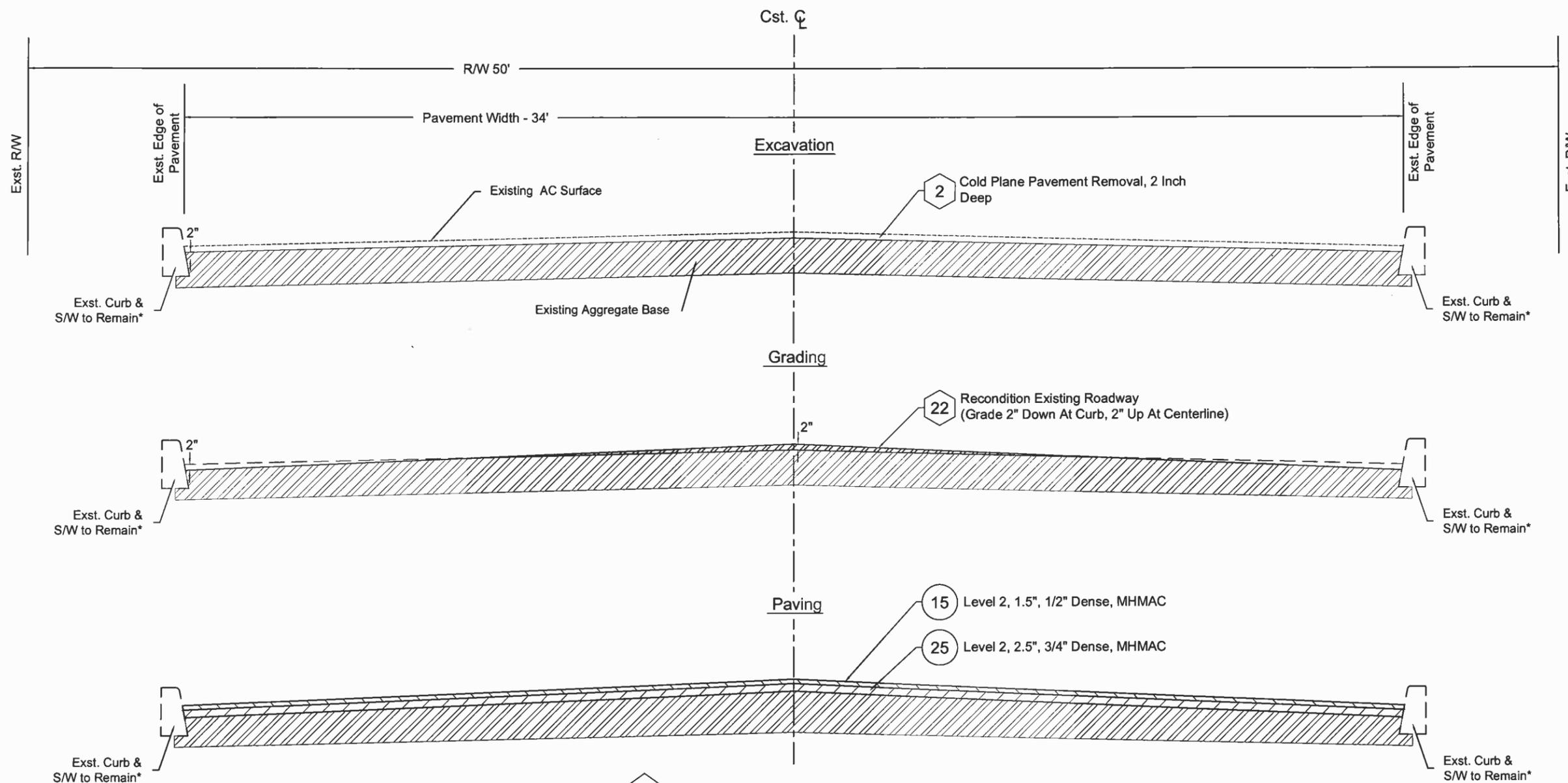
PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

DATE	REVISION DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

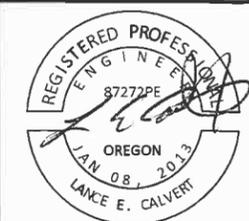
C4.2



C4 CROSS SECTION FARRVISTA DR  
 Not To Scale



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EXPIRES: 12/31/2015

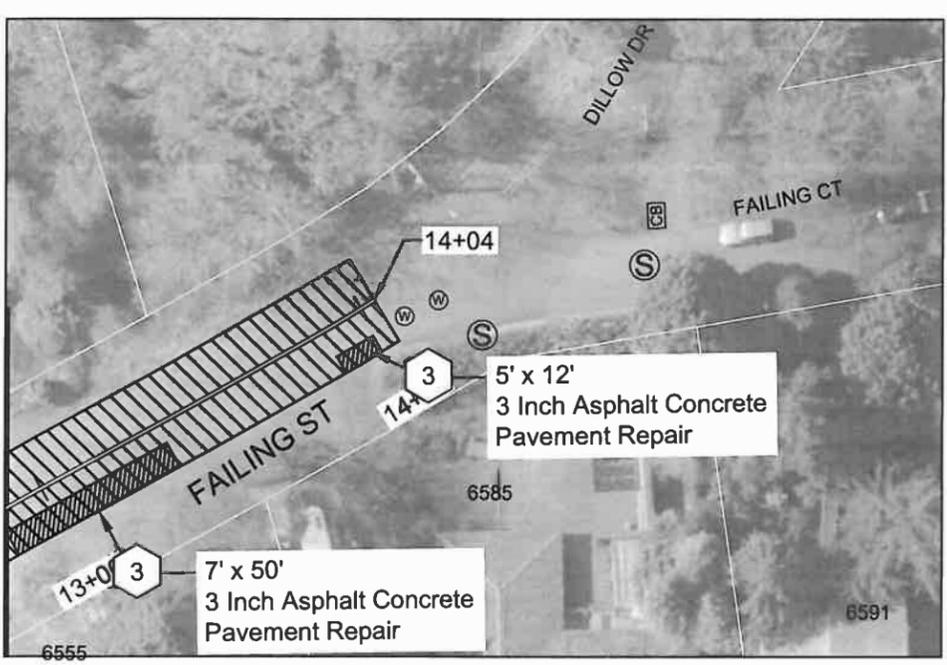
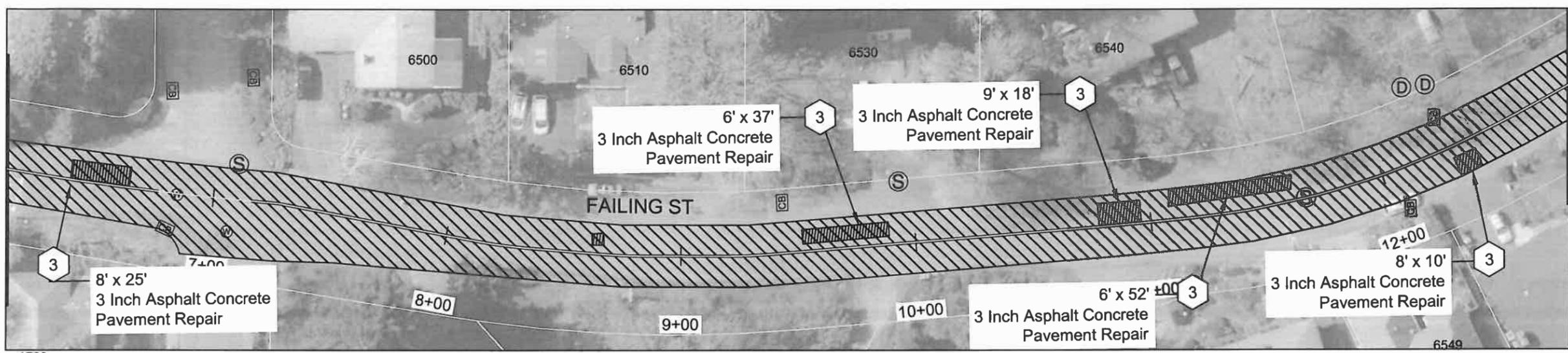
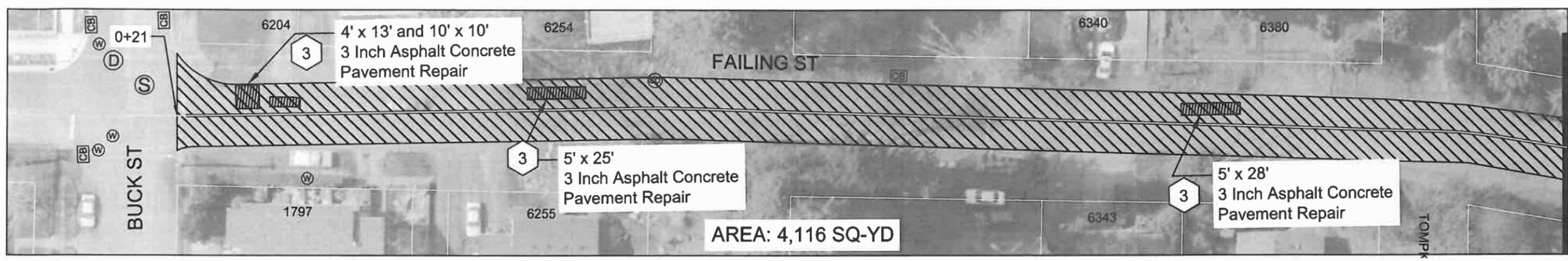
CONTRACTOR  
 NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

**2014 CONCRETE STREET PROJECT**  
 Failing Street  
 From Buck St to Dillow St

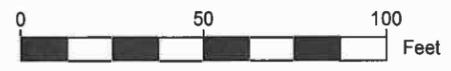
PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: KLE  
 CHECKED BY: LCAVERT  
 DATE: 5/9/2014

REVISION	
DATE	DESCRIPTION

SLURRY SEAL PLAN  
 SCALE: 1" = 50' Horizontal  
**L1.1**



FAILING STREET SLURRY SEAL CONSTRUCTION NOTES					
Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
0+21	114+04	SLURRY SEAL, TYPE II	SQ-YD	4116	00706
0+21	114+04	3" Asphalt Concrete Pavement Repair	SQ-YD	200	00748
0+21	114+04	Level 2, 1/2" Dense, MHMAC 3" Overlay	TON	34	00744

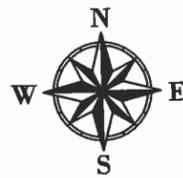


MATCH STA: 6+10

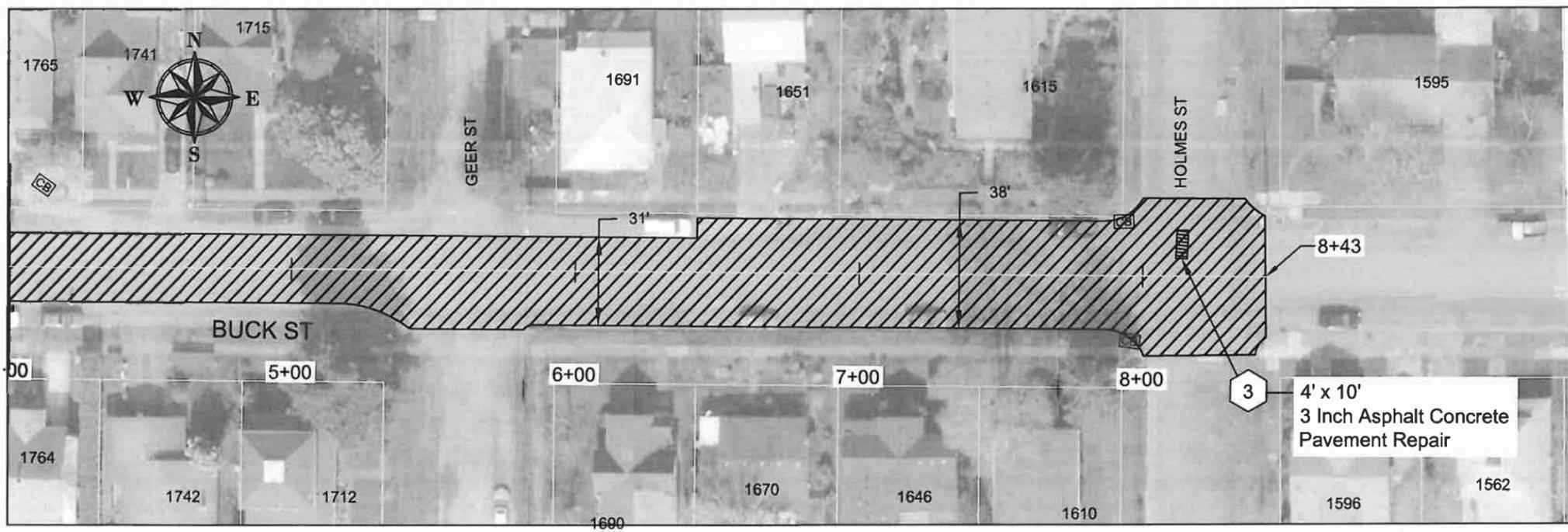
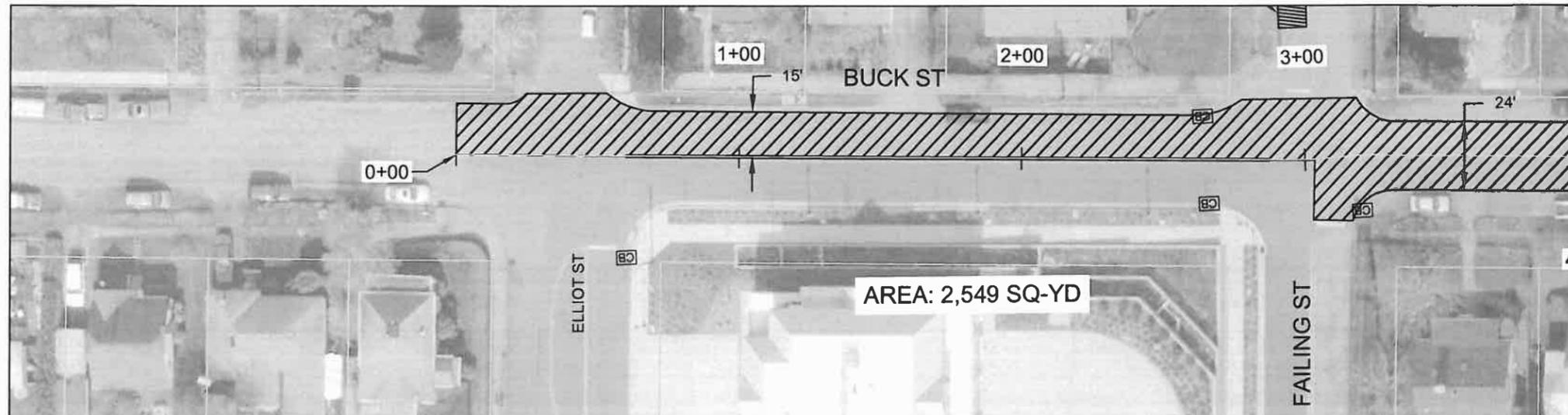
MATCH STA: 6+10

MATCH STA: 12+90

MATCH STA: 12+90



BUCK STREET SLURRY SEAL CONSTRUCTION NOTES					
Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
0+00	8+43	SLURRY SEAL, TYPE II	SQ-YD	2,549	00706
0+00	8+43	3" Asphalt Concrete Pavement Repair	SQ-YD	5	00748
0+00	8+43	Level 2, 1/2" Dense, MHMAC 3" Overlay	TON	1	00744



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CONTRACTOR  
 NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

**2014 CONCRETE STREET PROJECT**  
 Buck Street  
 From Elliot St to Failing St

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/9/2014

REVISION	
DATE	DESCRIPTION

SLURRY SEAL PLAN  
 SCALE: 1" = 50' Horizontal  
**L2.1**



CITY OF WEST LINN  
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 FAX: (503) 650-9041



EXPIRES: 12/31/2015

CONSULTANT OR CONTRACTOR

NAME:  
 ADDRESS:  
 PHONE:  
 FAX:

2014 CONCRETE STREET  
 PROJECT

Parkside Court  
 From Failing St to Cul-De-Sac

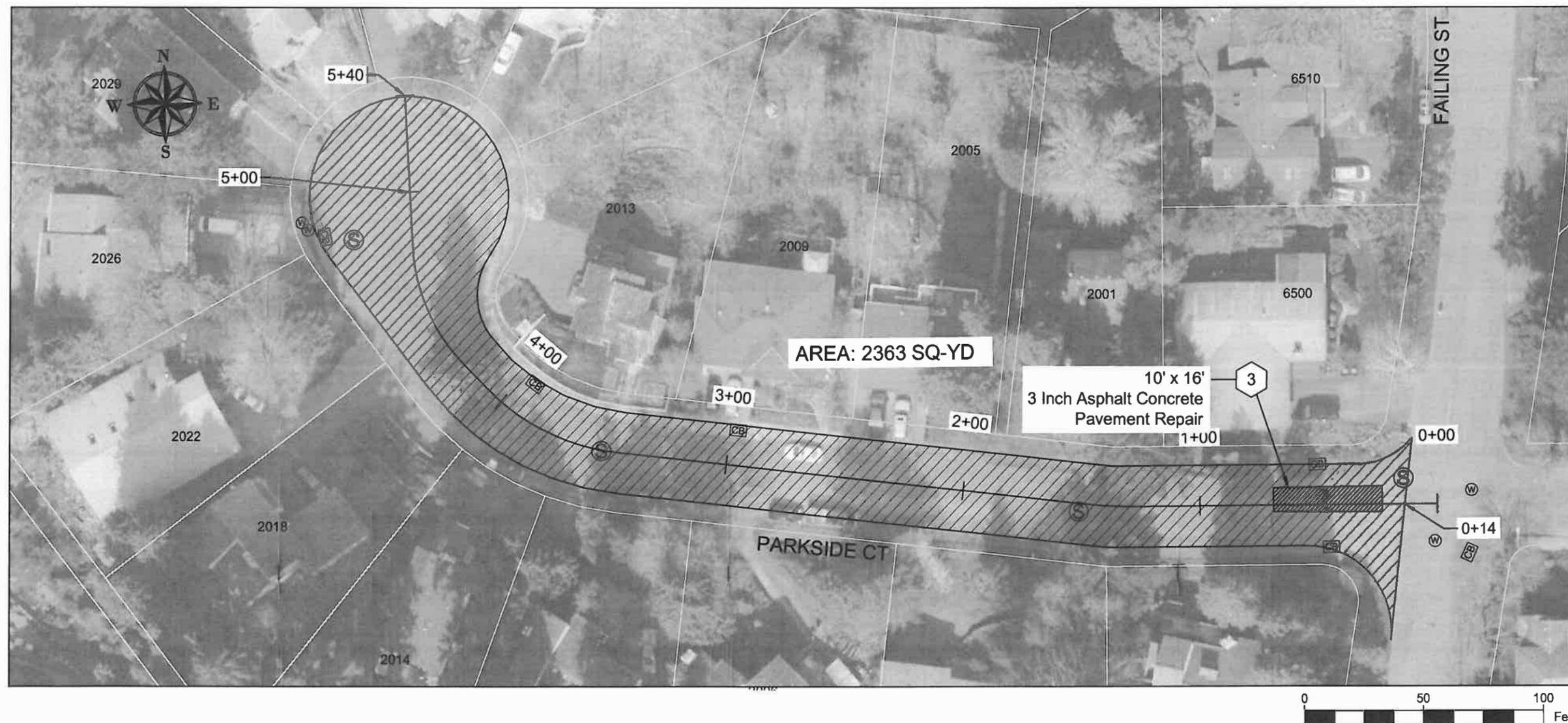
PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/9/2014

REVISION	DATE	DESCRIPTION

SLURRY SEAL PLAN  
 SCALE: 1" = 50' Horizontal

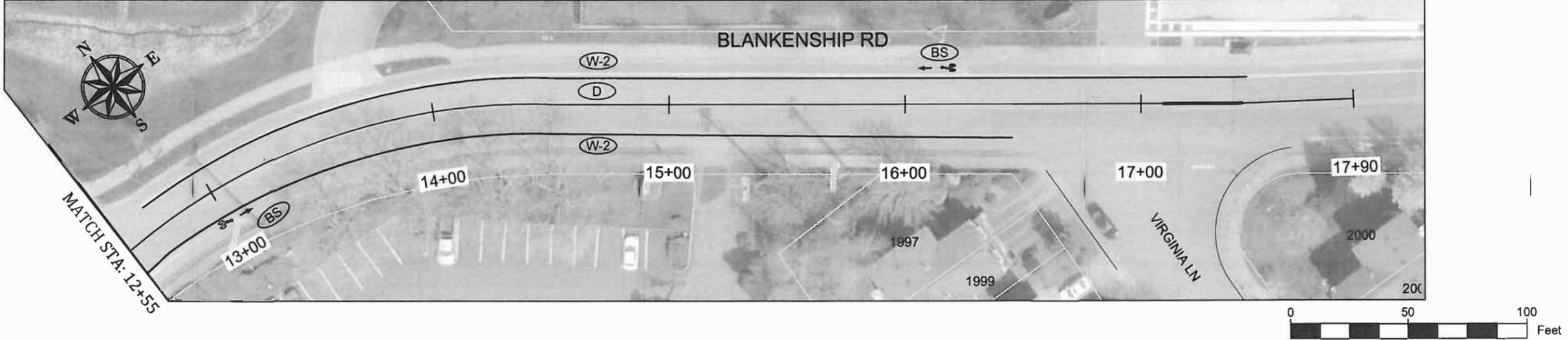
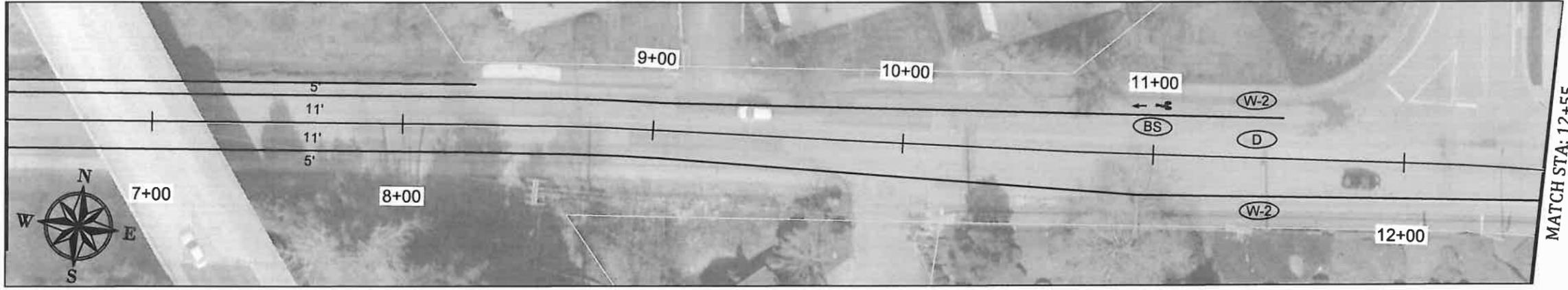
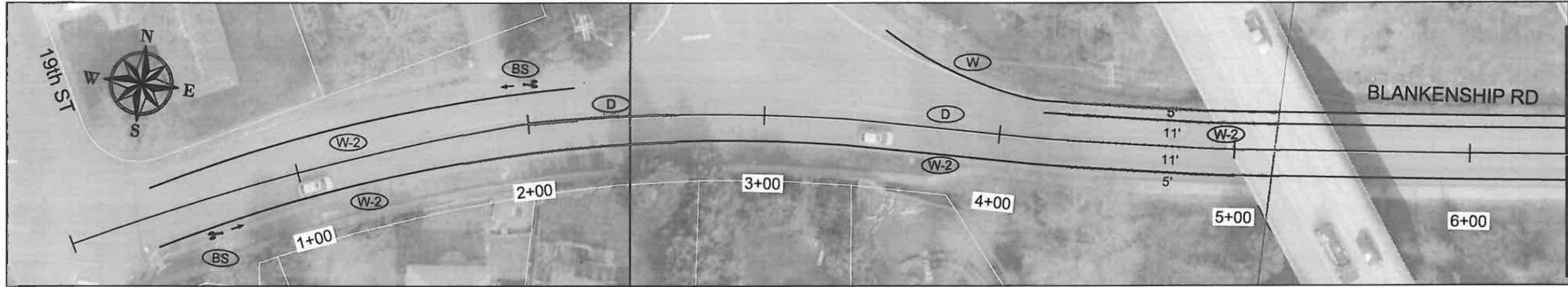
L3.1

PARKSIDE COURT SLURRY SEAL CONSTRUCTION NOTES					
Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
0+14	5+40	SLURRY SEAL, TYPE II	SQ-YD	136	00706
0+14	5+40	3" Asphalt Concrete Pavement Repair	SQ-YD	18	00706
0+14	5+40	Level 2, 1/2" Dense, MHMAC 3" Overlay	TON	3.5	00744
MISCELLANEOUS PAVEMENT REPAIR CONSTRUCTION NOTES					
STREET	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION	
Skyline and Sunset	3" Asphalt Concrete Pavement Repair	SQ-YD	370	00706	
Skyline and Sunset	Level 2, 1/2" Dense, MHMAC 3" Overlay	TON	73	00744	

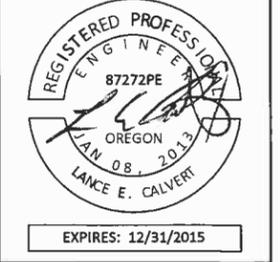


CONSTRUCTION NOTES - BLANKENSHIP ROAD STRIPING						
NO.	Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
(W)	2+00	17+43	Longitudinal Pavement Marking - Durable Thermoplastic, Non-Profile, 120 mils, Extruded	FOOT	500	00865
(D)	2+00	17+43	Longitudinal Pavement Marking - Durable Thermoplastic, Profile, 120 mils, Extruded	FOOT	1385	00865
(BS)	2+00	17+43	Transverse Pavement Markings - Type A Bicycle Lane Symbols To be installed by City of West Linn	EACH	5	00867

CONSTRUCTION NOTES - BLANKENSHIP ROAD STRIPING						
NO.	Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
(W-2)	2+00	17+43	Longitudinal Pavement Marking - Durable Thermoplastic, Non-Profile, 120 mils, Extruded	FOOT	2517	00865



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CONTRACTOR  
 NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

**2014 ROAD IMPROVEMENT PROGRAM**  
 Blankenship Road  
 From Johnson Road to Virginia Lane

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

REVISION	
DATE	DESCRIPTION

STRIPING PLAN  
 SCALE: 1" = 50' Horizontal  
**S1.1**

MATCH STA: 6+40

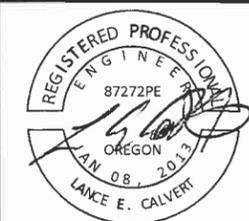
MATCH STA: 6+40

MATCH STA: 12+55

MATCH STA: 12+55



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EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

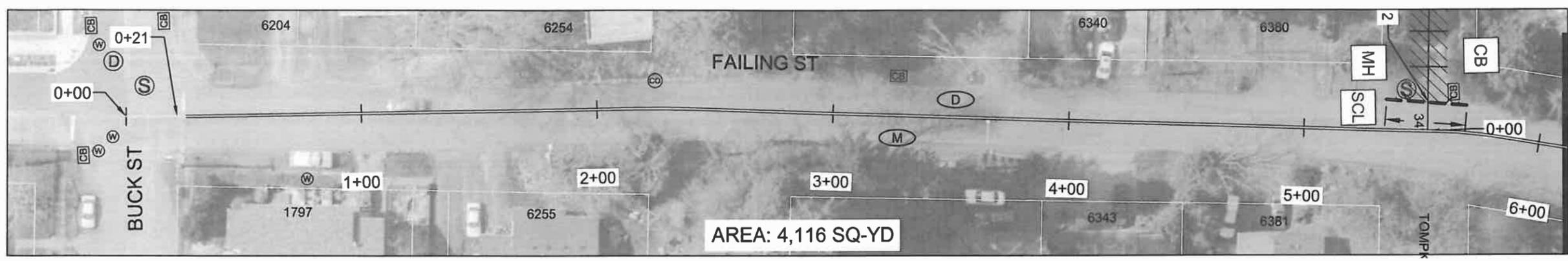
2014 CONCRETE STREET PROJECT

Failing Street  
 From Buck St to Dillow St

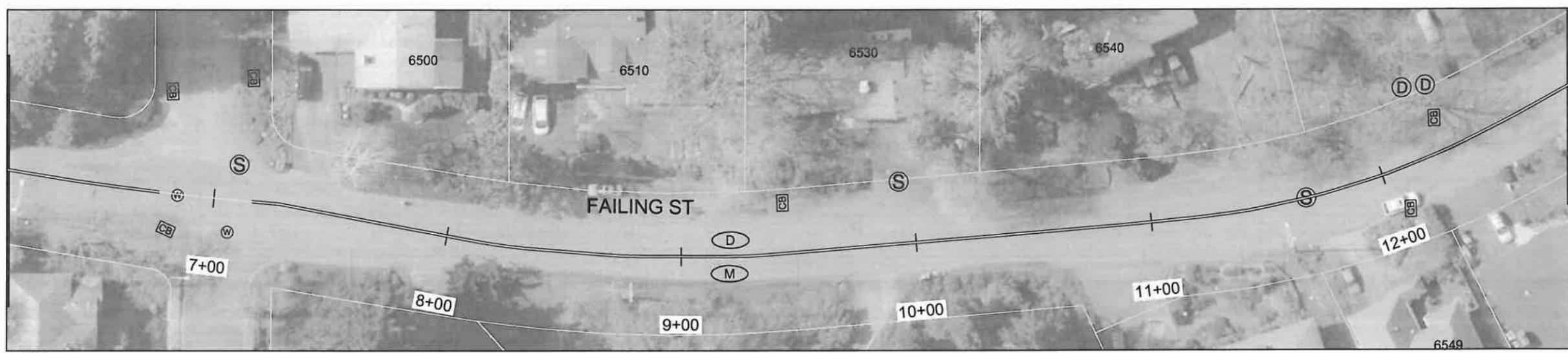
PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: KLE  
 CHECKED BY: LCALVERT  
 DATE: 5/9/2014

REVISION	
DATE	DESCRIPTION

STRIPING PLAN  
 SCALE: 1" = 50' Horizontal  
**S2.1**

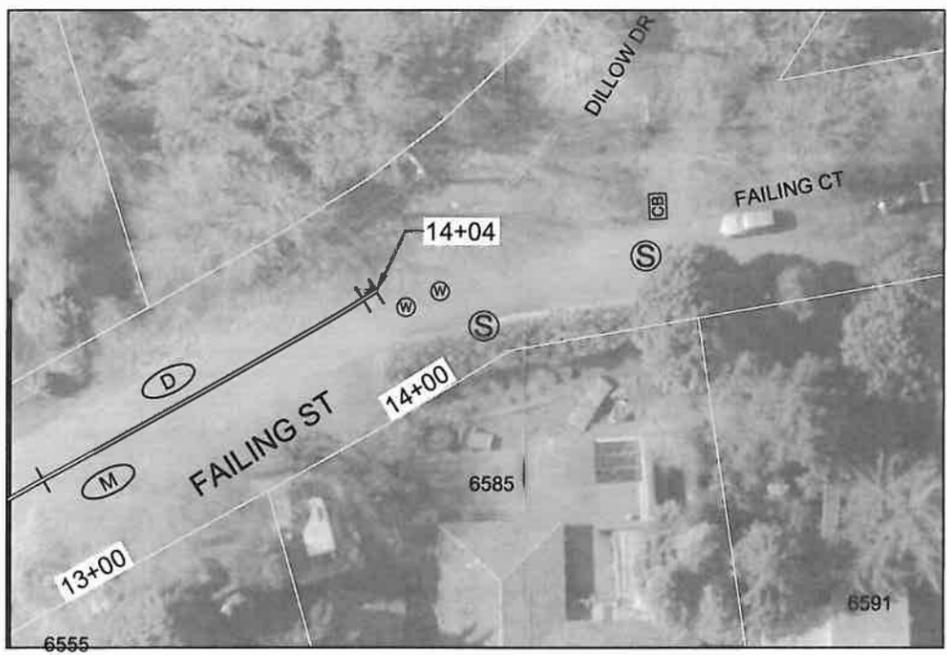


MATCH STA: 6+10



MATCH STA: 6+10

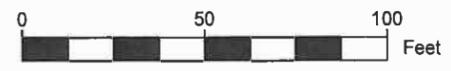
MATCH STA: 12+90



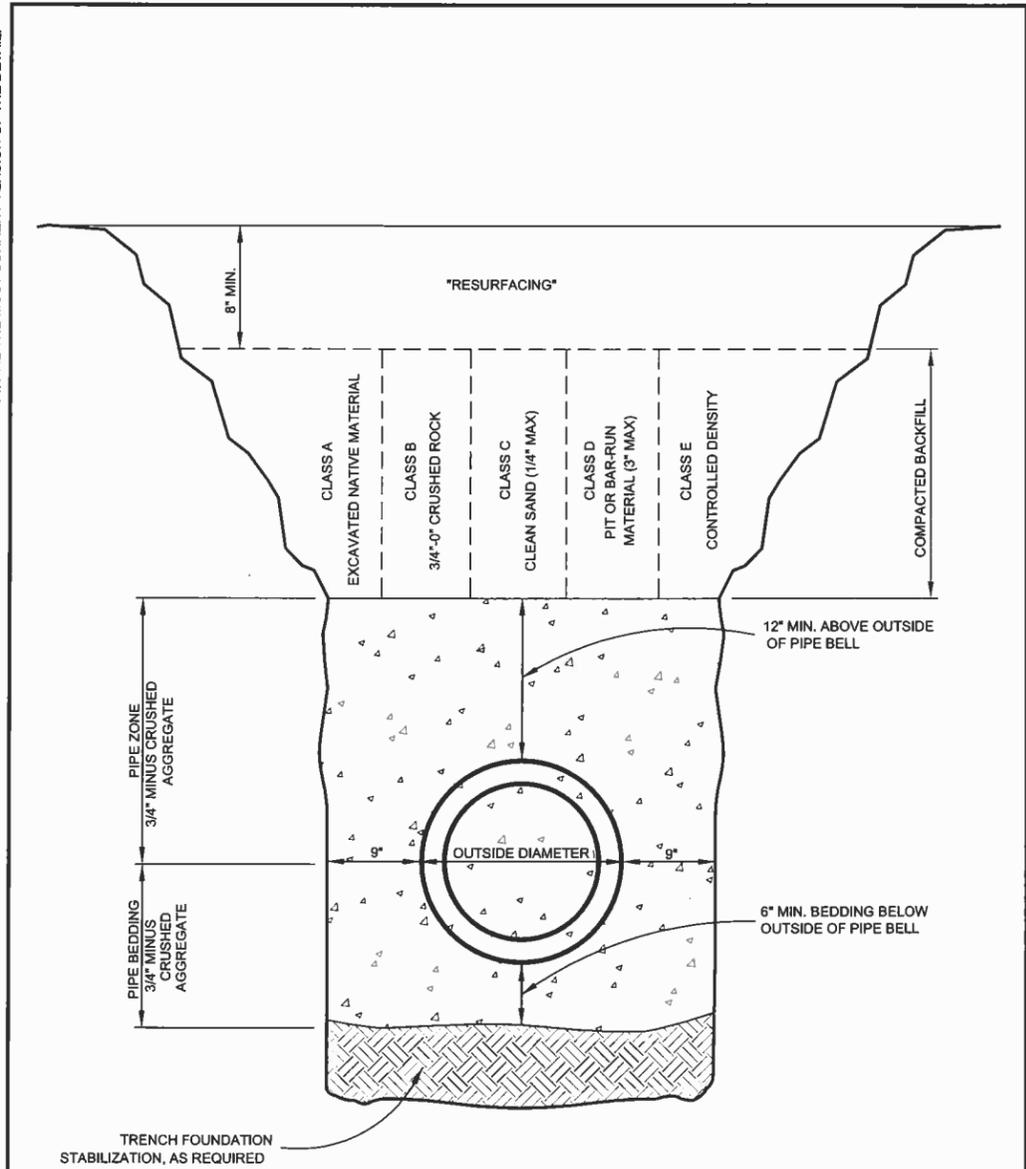
MATCH STA: 12+90



CONSTRUCTION NOTES - FAILING STREET STRIPING						
NO.	Begin Station	End Station	DESCRIPTION	UNIT	QTY	ODOT SPECIFICATION SECTION
(D)	0+21	14+04	Longitudinal Pavement Marking - Durable Thermoplastic, Non-Profile, 120 mils, Extruded	FOOT	2682	00865
(M)	0+21	14+04	Pavement Line Removal	FOOT	2682	00851



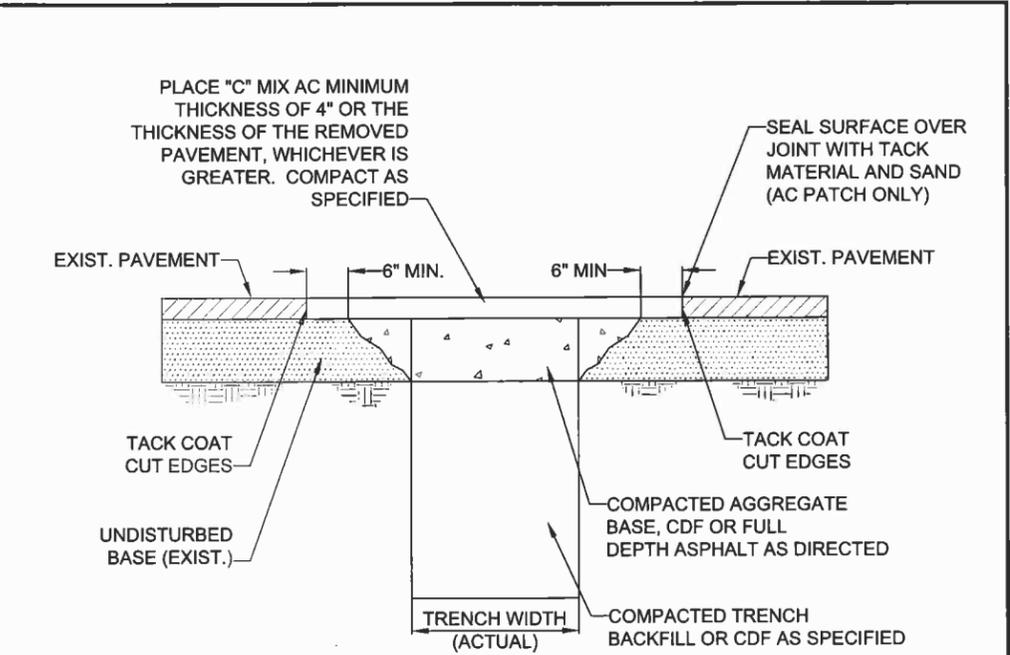
THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



**TRENCH BACKFILL  
BEDDING AND  
PIPE ZONE**

	DATE: 2010
	DRAWING NO. WL-200
	FILE NO.

THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



- NOTE:
1. ALL EXISTING AC OR PCC PAVEMENT SHALL BE SAWCUT TO NEAT, STRAIGHT LINES PRIOR TO REPAVING.
  2. CONCRETE PAVEMENT SHALL BE REPLACED WITH CONCRETE TO A MINIMUM THICKNESS OF REMOVED PAVEMENT, WHICHEVER IS GREATER.
  3. IF EXISTING BASE MATERIAL IS CTB OR ATB, THEN REPLACEMENT BASE MATERIAL SHALL MATCH EXISTING.
  4. ALL UTILITIES SHALL HAVE A MINIMUM COVER OF 36".
  5. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180 OR AS SPECIFIED IN THE CONTRACT DOCUMENTS.
  6. ALL TRENCH BACKFILL AND PATCHING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF WEST LINN.
  7. APPROVED CDF SHALL BE USED OR 3/4 - 0" GRAVEL BACKFILL SHALL BE PLACED AND COMPACTED IN 12" MAXIMUM LIFTS. IF 3/4-0" GRAVEL BACKFILL IS USED, COMPACTION TESTING BY A CERTIFIED TESTING COMPANY IS REQUIRED AT DEPTH INTERVALS AS SPECIFIED BY THE CITY ENGINEER.
  8. T-CUT MAY BE ENLARGED AT THE DISCRETION OF THE CITY ENGINEER OR CITY INSPECTOR DUE TO SITE CONDITIONS OR PROJECT REQUIREMENTS.
  9. ALL CUT EDGES SHALL BE SAND SEALED.
  10. COMPACTED BACKFILL OR CDF MUST EXTEND 2 FEET OUTSIDE OF PAVEMENT SURFACE.

**STREET T-CUT**

	DATE: 2010
	DRAWING NO. WL-203
	FILE NO.



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FAX: (503) 4106



CONTRACTOR  
NAME:  
ADDRESS:  
PHONE:  
FAX:

**2014 ROAD IMPROVEMENT  
PROGRAM**

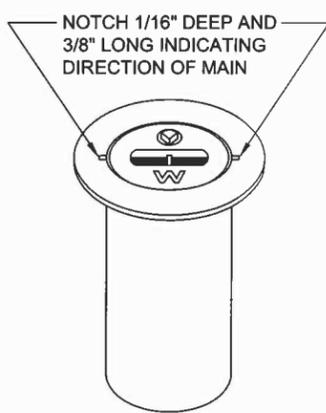
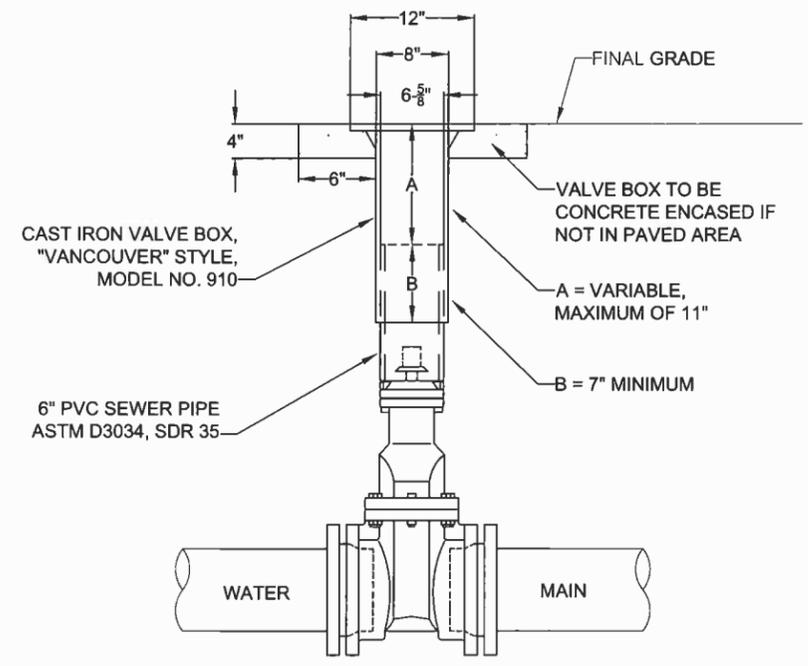
**WEST LINN PUBLIC WORKS STANDARD  
DETAIL DRAWINGS**

PROJECT NO.: PW-14-02  
DESIGNED BY:  
DRAWN BY:  
CHECKED BY:  
DATE:

REVISION	
DATE	DESCRIPTION

STANDARD DETAILS  
SCALE:  
**SD1**

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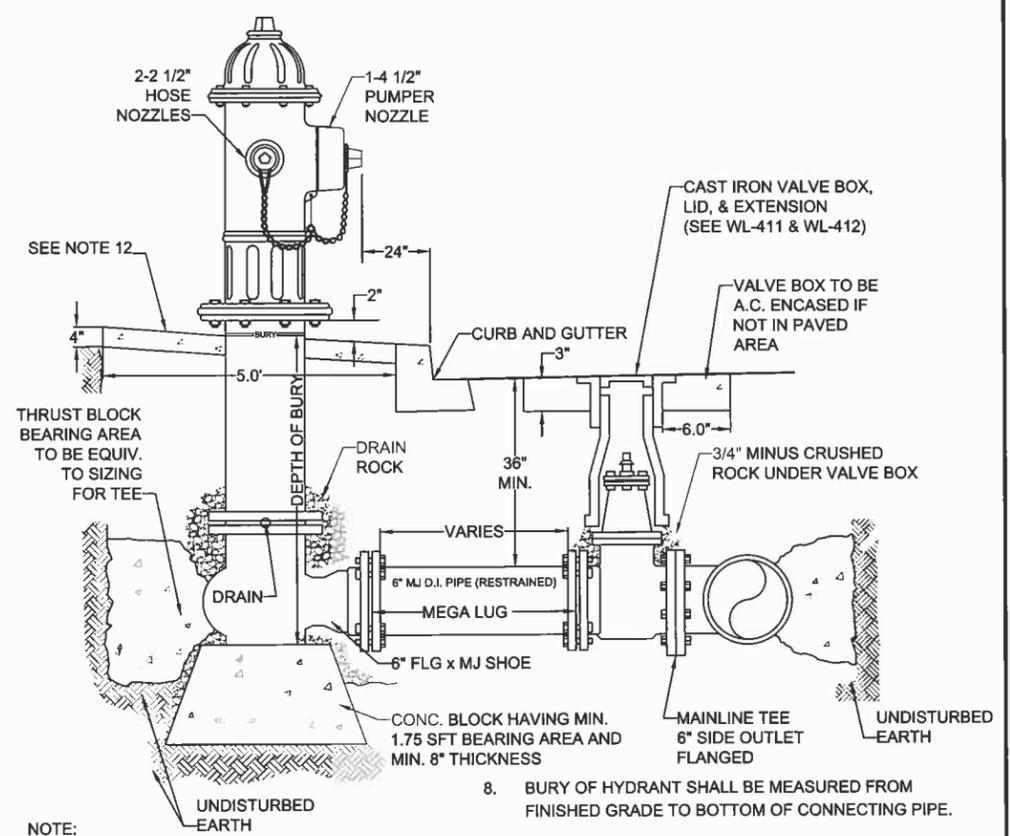
"VANCOUVER"  
18" TALL VALVE BOX

- NOTE:
1. VALVE BOXES SHALL BE CENTERED DIRECTLY OVER THE VALVE NUT IN A VERTICAL POSITION.
  2. VALVE BOX TOP SHALL BE ADJUSTED TO MEET FINISHED GRADE.
  3. PVC SHALL BE ONE CONTINUOUS PIECE-NO BELLS OR COUPLERS.
  4. ON VALVES 8" AND LARGER, PVC SHALL BE NOTCHED OVER VALVE PACKING BOLTS SO PVC SITS ON BONNET.

**STANDARD VALVE BOX  
DETAIL**

	DATE:	2010
	DRAWING NO.	WL-411
	FILE NO.	

THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



- NOTE:
1. HYDRANT TO BE MUELLER CENTURION MDL A-423 ONLY WITH 1 1/2" OPER. NUTS OR CLOW MEDALLION F-2545.
  2. HYDRANT COLOR TO BE MILLER EQUIP. ENAMEL 0 E 40 (SAFETY YELLOW).
  3. JOINTS TO BE RESTRAINED BY 3/4" DIA. GALVANIZED STEEL RODS AND THRUST BLOCKS OR MEGALUGS AND THRUST BLOCKS.
  4. ALL FITTINGS IN CONTACT W/CONCRETE SHALL BE WRAPPED IN PLASTIC, HYDRANT DRAIN HOLES TO REMAIN OPEN TO DRAIN ROCK AND OPERATIONAL.
  5. MIN. 4 CFT OF 1 1/2" - 3/4" CLEAN DRAIN ROCK SHALL BE PLACED AROUND SHOE UP TO A MIN. OF 6" ABOVE DRAIN OUTLETS.
  6. WHERE PLANTER STRIP EXISTS, HYDRANT SHALL BE PLACED SO THE FRONT PORT IS A MINIMUM OF 24" BEHIND THE FACE OF THE CURB.
  7. WHERE INTEGRAL S/W & CURB EXISTS, HYDRANT SHALL BE PLACED AT BACK OF THE SIDEWALK, OR AS DIRECTED BY ENGINEER.
  8. BURY OF HYDRANT SHALL BE MEASURED FROM FINISHED GRADE TO BOTTOM OF CONNECTING PIPE.
  9. THRUST BLOCK AT FIRE HYDRANT TEE SHALL BE EQUIVALENT TO TEE PIPE SIZING (SEE WL-406).
  10. HYDRANT VALVE SHALL BE MUELLER RESILIENT WEDGE GATE VALVE #A-2360-16 ONLY.
  11. NO EXTENSIONS ALLOWED
  12. HYDRANT SHALL HAVE A 5' x 5' x 4" THICK CONCRETE APRON. THERE SHALL BE 2" OF CLEARANCE BETWEEN THE TOP OF THE APRON AND THE BOTTOM OF THE FLANGED BOLT PATTERN OF THE HYDRANT.
  13. CONCRETE SHALL BE COMMERCIAL MIXED WITH A BREAKING STRENGTH OF NOT LESS THAN 3000 PSI.

**STANDARD FIRE HYDRANT  
ASSEMBLY**

	DATE:	2010
	DRAWING NO.	WL-401
	FILE NO.	



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CONTRACTOR  
NAME:  
ADDRESS:  
PHONE:  
FAX:

**2014 ROAD IMPROVEMENT  
PROGRAM  
WEST LINN PUBLIC WORKS STANDARD  
DETAIL DRAWINGS**

PROJECT NO.: PW-14-02  
DESIGNED BY:  
DRAWN BY:  
CHECKED BY:  
DATE:

REVISION	DATE	DESCRIPTION

STANDARD DETAILS  
SCALE:  
**SD2**

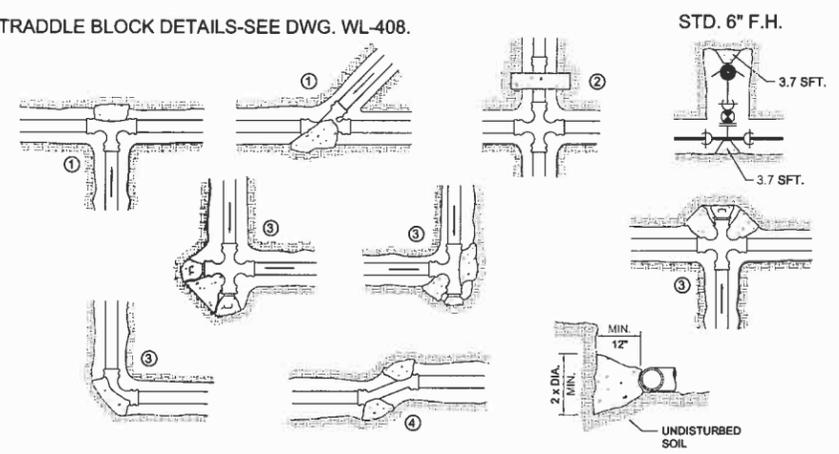


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FITTING SIZE (Inches)	TEE, WYE, & HYDRANTS ①	STRADDLE BLOCK ②	90° BEND PLUGGED CROSS TEE PLUGGED-RUNS ③	45° BEND ④	22 1/2° BEND ④	11 1/2° BEND ④
2	*	*	*	*	*	*
4	1.7	2.1	2.4	1.3	*	*
6	3.7	4.9	5.3	2.9	1.5	*
8	6.7	8.7	9.5	5.1	2.7	1.3
10	10.5	13.6	14.8	8	4.1	2
12	15.1	19.6	21.3	11.6	5.9	2.9
14						
16	26.8	34.8	37.9	20.5	10.4	5.2
18	33.9	44	47.9	25.9	12.8	6.7
LARGER	**	**	**	**	**	**

BEARING AREA OF THRUST BLOCKS (sq. ft.)

- ALL VALUES ARE BASED ON THE FOLLOWING ASSUMPTIONS:  
AVG. PRESSURE = 100 PSI X 2 (safety factor); 1500 PSF SOIL BEARING CAPACITY; NORMAL DISTRIBUTION DESIGN VELOCITY NOT TO EXCEED 5 F/S.
- ALL FITTINGS SHALL BE WRAPPED IN 8 MM PLASTIC PRIOR TO PLACEMENT OF CONCRETE.
- BEARING SURFACE OF THRUST BLOCKING SHALL BE AGAINST UNDISTURBED SOIL
- ALL CONCRETE MIX SHALL HAVE A MIN. 28 DAY STRENGTH OF 3000 PSI.
- ALL PIPE ZONES SHALL BE GRAVEL FILLED AND COMPACTED.
- THRUST BLOCKS FOR PLUGGED CROSS AND PLUGGED TEE SHALL HAVE #4 REBAR LIFTING LOOPS INSTALLED AS SHOWN.
- VERTICAL THRUST DETAILS-SEE DWG. WL-407.
- STRADDLE BLOCK DETAILS-SEE DWG. WL-408.



- \* BLOCK TO UNDISTURBED TRENCH WALLS.
- \*\* THRUST BLOCKS FOR PIPES LARGER THAN 18" WILL BE INDIVIDUALLY DESIGNED BY THE ENGINEER.

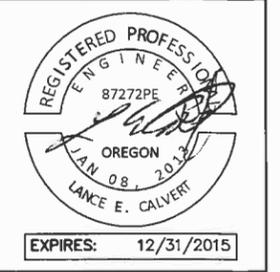
### HORIZONTAL THRUST BLOCKING



DATE:	2010
DRAWING NO.	WL-406
FILE NO.	



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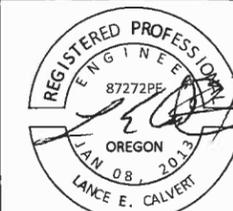
CONTRACTOR  
NAME:  
ADDRESS:  
PHONE:  
FAX:

**2013 MAPLETON WATERLINE REPLACEMENT**  
 WEST LINN PUBLIC WORKS STANDARD  
 DETAIL DRAWINGS

PROJECT NO.: PW-14-02  
DESIGNED BY:  
DRAWN BY:  
CHECKED BY:  
DATE:

REVISION	DATE	DESCRIPTION

STANDARD DETAILS  
SCALE:  
**SD4**



EXPIRES: 12/31/2015

CONTRACTOR

NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

2014 ROAD IMPROVEMENT PROGRAM

STANDARD DETAILS

PROJECT NO.: PW-14-02  
 DESIGNED BY: KLE  
 DRAWN BY: NBRENNAN  
 CHECKED BY: LCALVERT  
 DATE: 5/14/2014

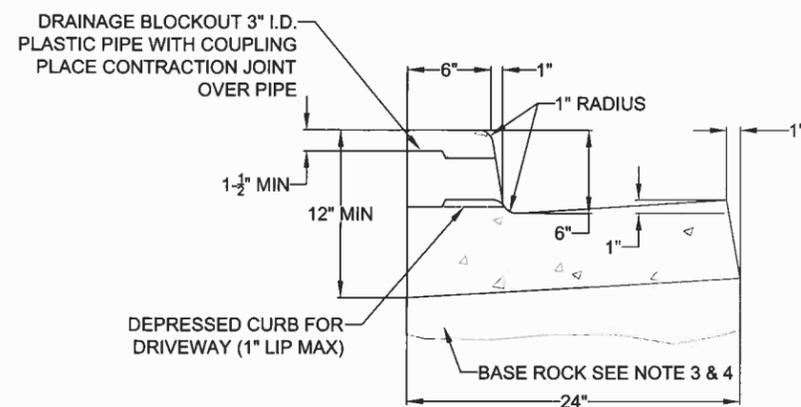
REVISION

DATE	DESCRIPTION

GENERAL NOTES

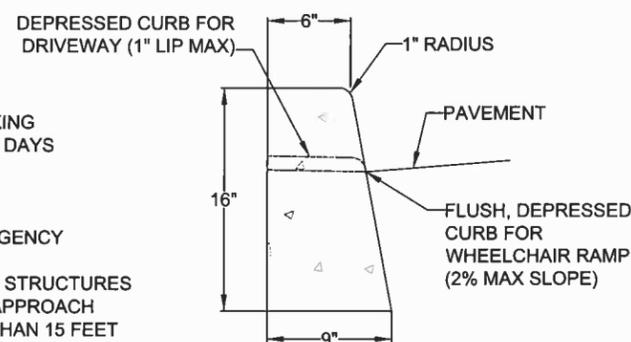
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FLUSH, DEPRESSED CURB FOR WHEELCHAIR RAMP 2% MAX SLOPE

TYPICAL CURB AND GUTTER



TYPICAL STRAIGHT CURB

NOTE:

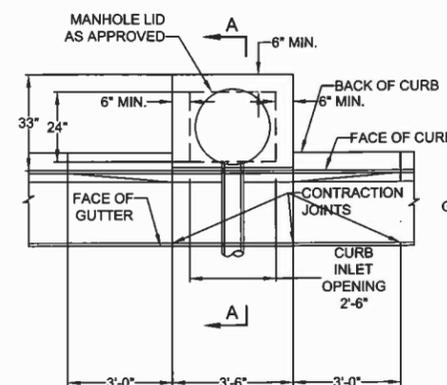
- CONCRETE SHALL HAVE A BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS
- CONTRACTION JOINTS:
  - TO BE PROVIDED:
    - AT EACH POINT OF TANGENCY
    - AT EACH COLD JOINT
    - AT EACH SIDE OF INLET STRUCTURES
    - AT BOTH SIDES OF AN APPROACH
  - SPACING TO BE NOT MORE THAN 15 FEET
  - THE DEPTH OF THE JOINT SHALL BE AT LEAST 1/3 OF THE THICKNESS OF CONCRETE
  - EXPANSION JOINTS SHALL NOT BE USED
- BASE ROCK - 1-1/2"-0", 95% COMPACTION PER AASHTO T-180  
 ROCK SHALL BE TO SUBGRADE OF THE STREET SECTION OR 4" IN DEPTH, WHICHEVER IS GREATER
- FULL DEPTH PREPARED ROCK SECTION SHALL EXTEND 1' HORIZONTALLY BEYOND BOTH SIDES OF CURB AND GUTTER
- DRAINAGE BLOCK - 3" DIA. PLASTIC PIPE
  - DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE DONE BY:
    - CORE DRILLING
    - VERTICAL SAWCUT OF CURB 24" EACH SIDE OF DRAIN AND RE-POURED TO FULL DEPTH OF CURB
- STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY LATERAL CROSSING

TYPICAL CURBS

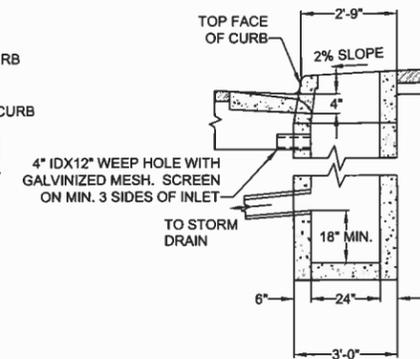


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 FILE NO.

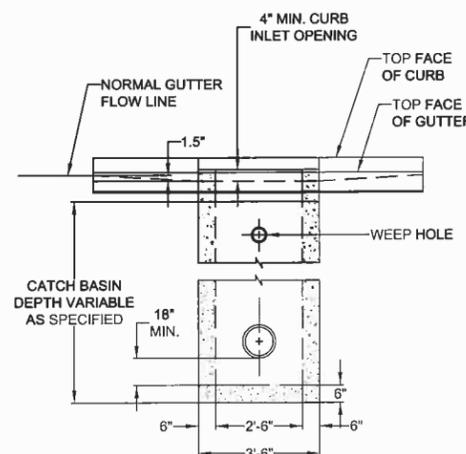
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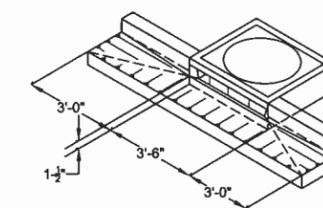
PLAN VIEW



SECTION A-A



FRONT VIEW



PERSPECTIVE VIEW SHOWING DEPRESSED GUTTER AT CURB INLET

NOTE:

- ALL FABRICATED METAL PARTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
- CONCRETE STRENGTH SHALL BE 3300 PSI AT 28 DAYS.
- CURB INLET BASE MAY BE PRECAST OR CAST-IN-PLACE.
- FOR SLOPES OF 5% OR GREATER, USE DWG. WL-601.

GUTTER INLET 2 1/2 A



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