



CITY OF WEST LINN
2016 Road Program
PW-16-01

BID DOCUMENTS



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



EXPIRES: 12/31/2017

CONTRACTOR

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

CITY OF WEST LINN
2016 ROAD PROGRAM

COVER SHEET

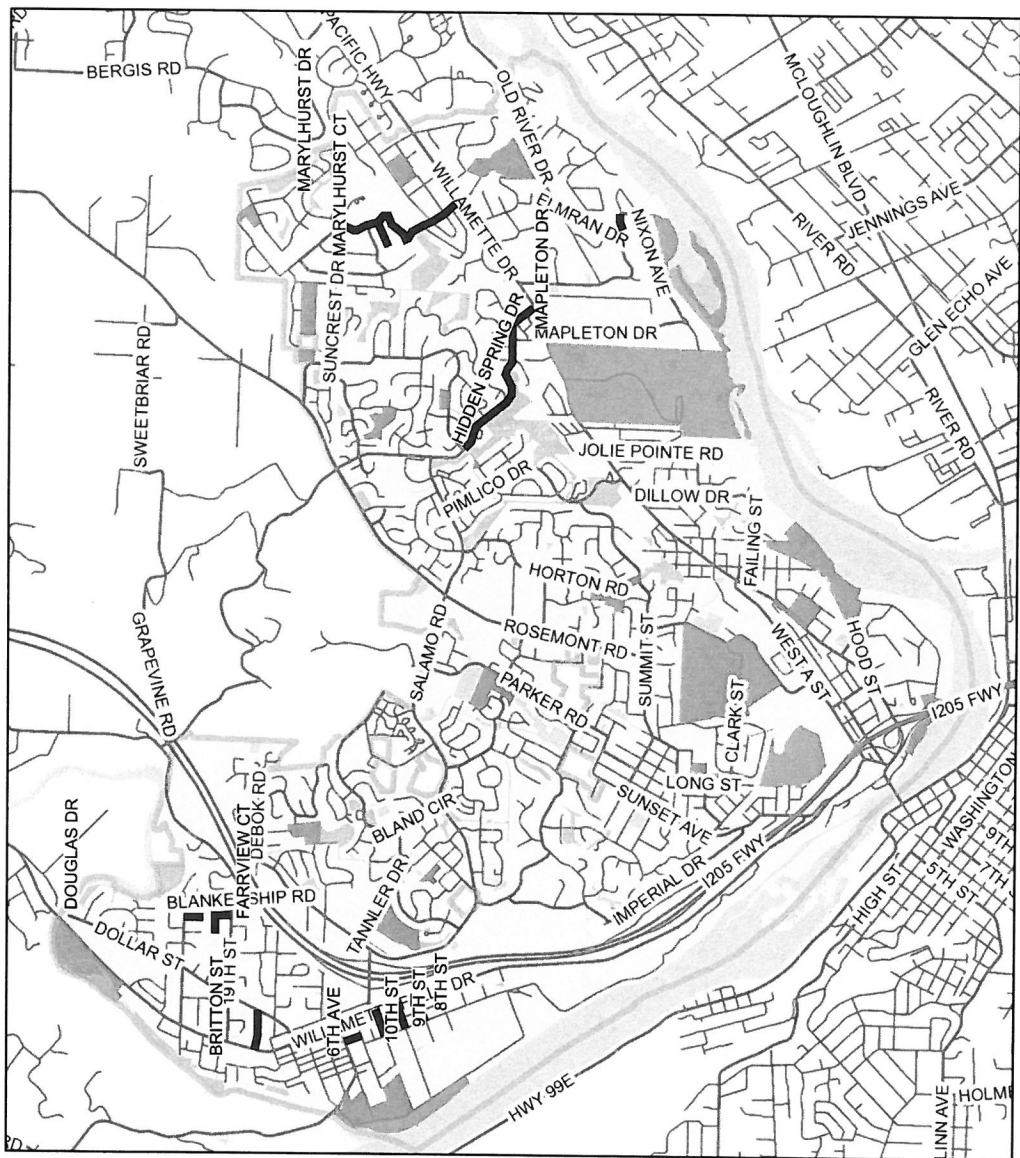
PROJECT NO.: PW-16-01
DESIGNED BY: L.CALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/2/2016

REVISION

DATE DESCRIPTION

COVER SHEET

CS



SHEET INDEX			
SHEET TITLE			SHEET NO.
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QUANTITY SHEET			QS
STANDARD DETAILS			SD
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9TH ST	WILLAMETTE FALLS DR	5TH AVE	C2.0-C2.1
8TH ST	WILLAMETTE FALLS DR	5TH AVE	C3.0-3.1
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HIDDEN SPRINGS RD	WILLAMETTE DR (HWY 43)	WILDWOOD DR	S2.0-2.1
ELMRAN DR	STEAMBOAT WAY	CEDAR OAK DR	S3.00

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.

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).





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CITY OF WEST LINN 2016 ROAD PROGRAM

GENERAL NOTES

GENERAL NOTES:

- 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.
- 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.
- The City Engineer does not warrant any quantities shown on these plans. Quantities are estimates. Unit pricing to be used for all construction.
- The Engineering Division, Inspection Section shall be notified twenty-four (24) hours prior to any construction work by telephone at 503-722-5500. Any work concealed without inspection shall be subject to removal and replacement at the Contractor's expense.
- 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.
- 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.
- 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.
- 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.

UTILITY PROVIDERS

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	JEFF STEIGLEDER	503-736-5728
GAS:	NW NATURAL	DAVID BENTON	503-226-4211x2357
CATV:	COMCAST	BOB BOB MILLAR	360-828-3559
PHONE:	QWEST	KENNETH SCIULLI	503-242-0304

SEWER NOTES:

- Water and sanitary sewer line crossings shall conform with the Oregon Administrative Regulation 333-061-0050(9).
- Pipe bedding and trench backfill are incidental to pipe.
- 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:

- No road closure shall be allowed without City Engineer's prior approval as delegated by the City Manager.
- The Contractor shall provide traffic control plan for City Approval
- 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.
- Maintain vehicular, bicycle, pedestrian, bus, and emergency vehicle access to area homes throughout construction.

MISC. ASPHALT CONCRETE REPAIR AND CRACK SEAL STREET LOCATIONS

Tamarisk Dr	Debok Rd	End
Limerick Ln	Killarney Dr	End
Tipperary Ct	Killarney Dr	End
Donegal Ct	Killarney Dr	End
Alpine Dr	1995 Alpine Dr	1995 Alpine Dr
Crestview Dr	Alpine Dr	Bland Circle
Falcon Dr	Bland Circle	Tannler
Remington Dr	Tannler	Haskins
Haskins Rd	Remington	Kensington Ct
Kensington Ct	Umpqua Ln	South End
Kensington Ct	Umpqua Ln	North End
Umpqua Ln	Bland Circle	Kensington Ct
Dodge Way	16 th St	End
Jamie Circle	16 th St	End
April Ct	16 th St	End
Chaparral Dr	Ponderay Dr	Chelan Dr
Ponderay Dr	Salamo Rd	Wild Rose Loop
Crescent Dr	Ponderay Dr	Sabo Ln
Beacon Hill Dr	Crescent Dr	Beacon Hill Ln
Day Rd	Bland Circle	Salamo Rd
Bland Circle	East of Tannler Dr	Salamo Rd
Bland Circle	Weatherhill Rd	North End
River Woods Pl	Old River Rd	River Edge Ct
River Edge Ct	River Woods Pl	End
River Edge Ln	River Woods Pl	End
Cedar Ct	River Edge Ln	End
Lazy River Dr	Hwy 43	End
Fairview Way	Hwy 43	End
Hillcrest Dr	Marylhurst Dr	Suncrest Dr
Hunter Way	Bellevue Way	Hunter Ct
Summer Run Dr	Parker Rd	White Salmon Ct
White Salmon Ct	Coho Dr	End
Coho Ln	Parker Rd	Hale Dr
Cambridge St	Cornwall St	End
Kobuk Ct	Crown St	End
Crown Ct	Crown St	End
Falling St	Dillow Dr	North End
Willamette View Ct	Dillow Dr	End
Lowry Dr	Dillow Dr	Century Ln
Tompkins St	Barclay St	West End
Tompkins St	Barclay St	Caufield St
Barclay St	South End	Century Ln
Caufield St	Randall St	Tompkins St
Randall St	Davenport	Caufield St

CONSTRUCTION NOTES:

- 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.
- 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.
- Contractor shall provide ingress and egress to residential driveways with limited delay.
- No vehicle shall be permitted to work on this project that has more than one (1) drop axle in which raising the additional axles would cause the vehicle to exceed legal load limits. This includes a rear tag axle.
- Contractor shall schedule work to allow for a maximum 5 calendar days between removal of existing surface and installing base lift surface
- Utility locations are based on city of west linn GIS mapping, the contractor shall verify the location and depth of all existing utilities prior to construction.
- Contractor to verify condition of all existing water services. replace as directed by west linn water department.
- All pavement removal at driveways shall be saw cut. no "feathering" to existing driveway surfacing.
- Working Hours: 7:00 AM - 7:00 PM Monday - Friday
9:00 AM - 5:00 PM Saturday - Sunday & Holidays

ADDITIONAL NOTES:

- Contractor shall be responsible for all construction surveying and construction staking including all items listed under "Agency Responsibilities" in section 00150.15b of the ODOT standard specifications. Final grades will be checked and determined by City Engineer.
- Asphalt concrete pavement repair shall include aggregate base backfill/removal as necessary for meeting final grade.
- Earthwork and excavation included as incidental for all bid items including curb work and driveway approaches.

GENERAL NOTE

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DESIGNED BY: LCAVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION

DATE	DESCRIPTION
06/06/2016	Work Hours Correction

GENERAL NOTES

SCALE: 1" = 50' Horizontal

GN

ODOT Specification #	DESCRIPTION	Unit	10th St	9th St	8th St	6th Ave	Britton St	Farview Ct	Douglas Ct	Maryhurst Ct	Maryhurst Dr	Hidden Springs Rd	Elmran Dr	Misc	Total
00210.90	MOBILIZATION	LS													1
00225.90a(2)	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	LS													1
00280.90a	EROSION CONTROL	LS													1
00310.92b	REMOVAL OF CURBS	LF	25		98	30			48						201
00310.92c	REMOVAL OF WALKS AND DRIVEWAYS	SY	110	40	40	10									200
00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	250	200	180	140									770
00331.90	12 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY						200	200	300					700
00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)	SY	1,476	1,217	1,220		1,790								5,703
00344.90c	PORTLAND CEMENT	TON	29	24	24		35								111
00445.91b	12 INCH REINFORCED CONCRETE PIPE	LF	70											660	730
00445.91b	8 INCH PVC (SDR 35) PIPE	LF		120											120
00445.91d	PIPE WYES, 4 INCH SERVICE CONNECTION	EA		3											3
00470.90c	CONCRETE MANHOLES, PRECAST (48")	EA		1											1
00470.90d	CONCRETE INLETS, TYPE CG-3 (OPTION 1)	EA	1			1									2
00470.90d	CONCRETE INLETS, TYPE G-1	EA												5	5
00480.90	DRAINAGE CURB, AC	LF								250	1,500				1,750
00490.90a	MINOR ADJUSTMENT OF MANHOLES	EA	2	1	1		3	2	1	4	13				27
00490.90c	ADJUSTING INLETS	EA							1						1
00490.90d	ADJUSTING BOXES	EA					1	1	1	2	16				21
00490.90d(v)	ADJUSTING BOXES (VANCOUVER STYLE REPLACEMENT, VALVE BOX PROVIDED BY CITY), WL-411	EA	4	1		4			1		7				17
00490.90f	MANHOLES OVER EXISTING SEWERS	EA			1										1
00490.90g(s)	CONNECTION TO EXISTING SERVICE LINE	EA		3											3
00490.90g	CONNECTION TO EXISTING STRUCTURES	EA	1	1										2	4
00610.90	RECONDITION EXISTING ROADWAY	EA	1	1	1	1	1	1	1	1					8
00620.90	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP	SY						2,585	1,261	1,167	4,500				9,513
00730.90	EMULSIFIED ASPHALT FOR TACK COAT	TON									5				5
00745.90(a)	LEVEL 2, 3/4 INCH ACP	TON	212	175	175	140	257	372	181	134	90			690	2,426
00745.90(b)	LEVEL 2, 1/2 INCH ACP	TON	127	105	105	104	154	223	109						927
00746.90	CRACK SEALING	LBS												15,000	15,000
00749.92(a)	ASPHALT APPROACHES	EA	8	8	7		19			5	31			5	83
00748.90	3 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SY									500			4,000	4,500
00759.90	CONCRETE WALKS, ADA CURB RAMP	EA	2			1									3
00759.90a	CONCRETE CURBS, STRAIGHT CURB WL-501	LF	900	820	820	230									2,770
00759.90c	CONCRETE DRIVEWAY, 6 INCHES DEPTH WL-503B	EA	2	4	4	1								1	12
00759.90e	CONCRETE WALKS, WL-508B	SF	1000			1,282									2,282
00851.90a	PAVEMENT LINE REMOVAL	LF										7990			7990
00865.90a	THERMOPLASTIC, EXTRUDED, SURFACE, PROFILED, YELLOW	LF									5804	7550			13,354
00865.90a	THERMOPLASTIC, EXTRUDED, SURFACE, NON-PROFILED, WHITE	LF									5910	440	580	580	7510
01070.90	MAILBOX SUPPORT	EA					2								2
SP1	ASPHALT PULVERIZING	SY	1476	1217	1220	1209	1,790								6,912
SP2	LEVEL 2, 1/2 INCH, FIBER REINFORCED ACP	TON								110	1,040				1,150
SP3	CONSTRUCTION SURVEY	LS													1
SP4	LANDSCAPE RESTORATION	LS													1



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

CITY OF WEST LINN
2016 ROAD PROGRAM
QUANTITIES

PROJECT NO.: PW-16-01
DESIGNED BY: L CALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION
DATE DESCRIPTION
06/06/2016 ADDENDUM QTY REV

COVER SHEET
SCALE: 1" = 50' Horizontal
QS



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EXPIRES: 12/31/2017

CONTRACTOR

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CITY OF WEST LINN
2016 ROAD PROGRAM

10TH ST
FROM WILLAMETTE FALLS DR TO 5TH AVE

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

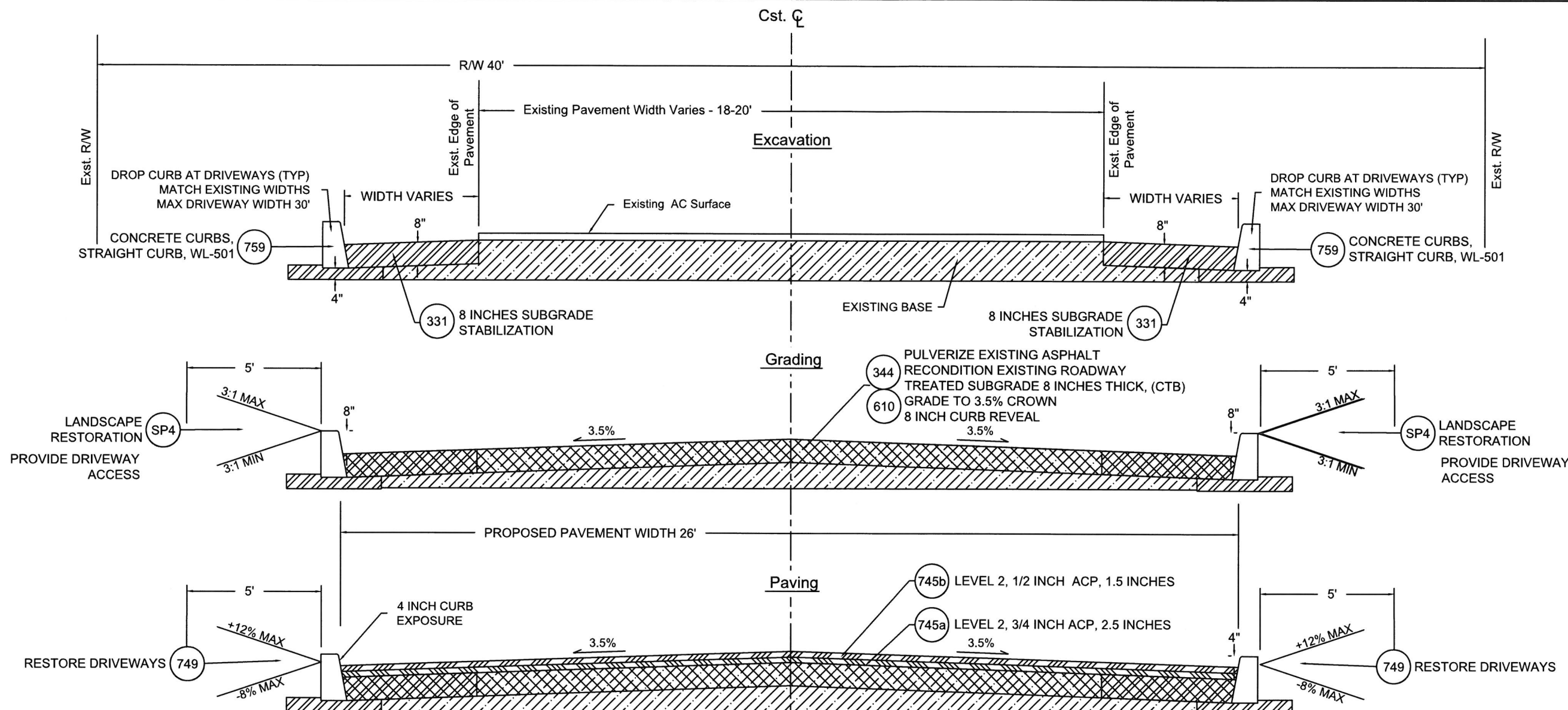
REVISION

DATE DESCRIPTION

CONSTRUCTION DETAILS

SCALE:

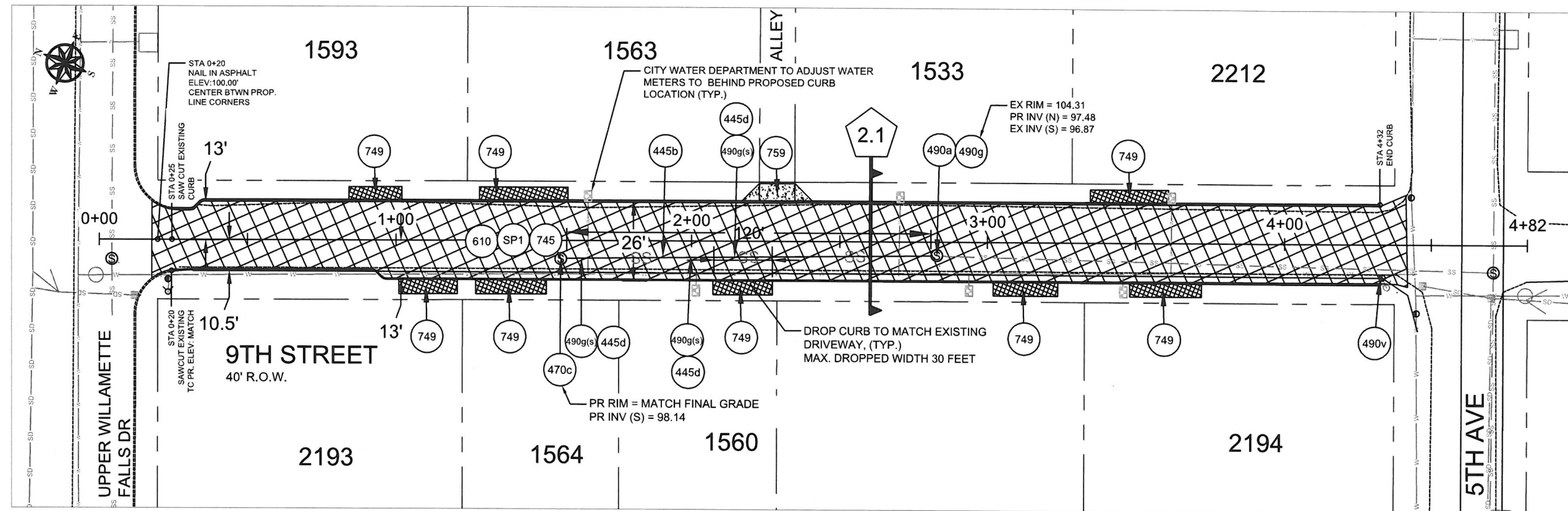
C1.1



1.1 CROSS SECTION 10TH STREET
Not To Scale

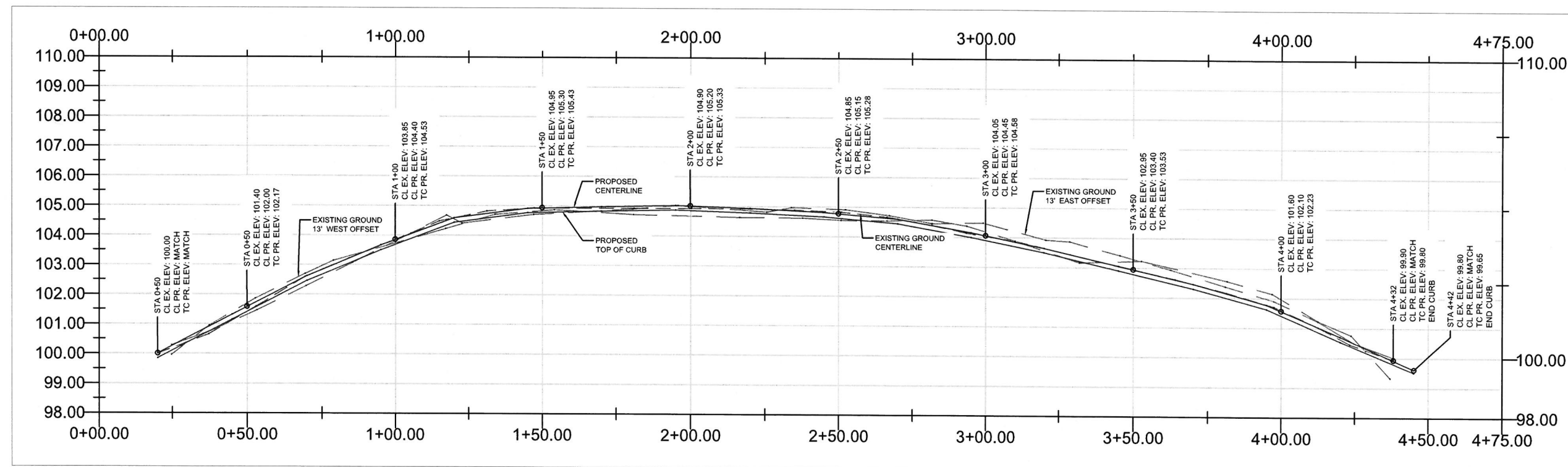
SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	10th ST
310b	00310.90b	REMOVAL OF CURBS	LF	25
310c	00310.90c	REMOVAL OF WALKS	SY	110
331	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	250
344	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)	SY	1476
344c	00344.90c	PORTLAND CEMENT	TON	29
445b	00445.91b	12 INCH C900 PIPE	LF	70
470a	00470.90a	CONCRETE INLETS, TYPE CG-3 (OPTION 1)	EA	1
490a	00490.90a	MINOR ADJUSTMENT OF MANHOLES	EA	2
490v	00490.90d(v)	ADJUSTING BOXES (VANCOUVER STYLE REPLACEMENT), WL-411	EA	4

SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	10th ST
490g	00490.90g	CONNECTION TO EXISTING STRUCTURE	EA	1
610	00610.90	RECONDITION EXISTING ROADWAY	EA	1
745a	00745.90	LEVEL 2, 3/4 INCH ACP	TON	212
745b	00745.90	LEVEL 2, 1/2 INCH ACP	TON	127
749	00749.92a	ASPHALT APPROACHES	EA	8
759	00759.90	ADA CURB RAMP	EA	2
759a	00759.90a	CONCRETE CURBS, STRAIGHT CURB WL-501	LF	900
759c	00759.90c	CONCRETE DRIVEWAY, 6 INCHES DEPTH WL-503B	EA	2
759e	00759.90e	CONCRETE WALKS, WL-508B	SF	1,000
SP1		ASPHALT PULVERIZING	SY	1,476

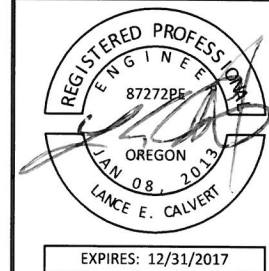


CONSTRUCTION NOTES:

1. MAXIMUM 5 CALENDAR DAYS BETWEEN REMOVAL OF EXISTING SURFACE AND INSTALLING BASE LIFT ACP. DAYS IN EXCESS OF MAXIMUM WILL RESULT IN LIQUIDATED DAMAGES.
2. UTILITY LOCATIONS ARE BASED ON CITY OF WEST LINN GIS MAPPING. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. ALL PAVEMENT REMOVAL AT DRIVEWAYS SHALL BE SAW CUT. NO "FEATHERING" TO EXISTING DRIVEWAY SURFACING.
4. CONTRACTOR TO POTHOLE AND FIELD VERIFY EXISTING SERVICE LATERAL LOCATIONS FOR FINAL WYE AND LATERAL CONNECTION PLACEMENT PRIOR TO STARTING SEWER WORK.
5. TRENCH BACKFILL IN PAVED AREAS SHALL BE CLASS B, 1" OR 3/4" CRUSHED ROCK (ALL SHEETS).
6. REMOVAL OF LOWEST LADDER STEP IN EXISTING MANHOLE IS INCIDENTAL TO CONNECTION TO EXISTING STRUCTURE.



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9TH ST
FROM WILLAMETTE FALLS DR TO 5TH AVE

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DESIGNED BY: LCA/VERT
DRAWN BY: NBRENNAN
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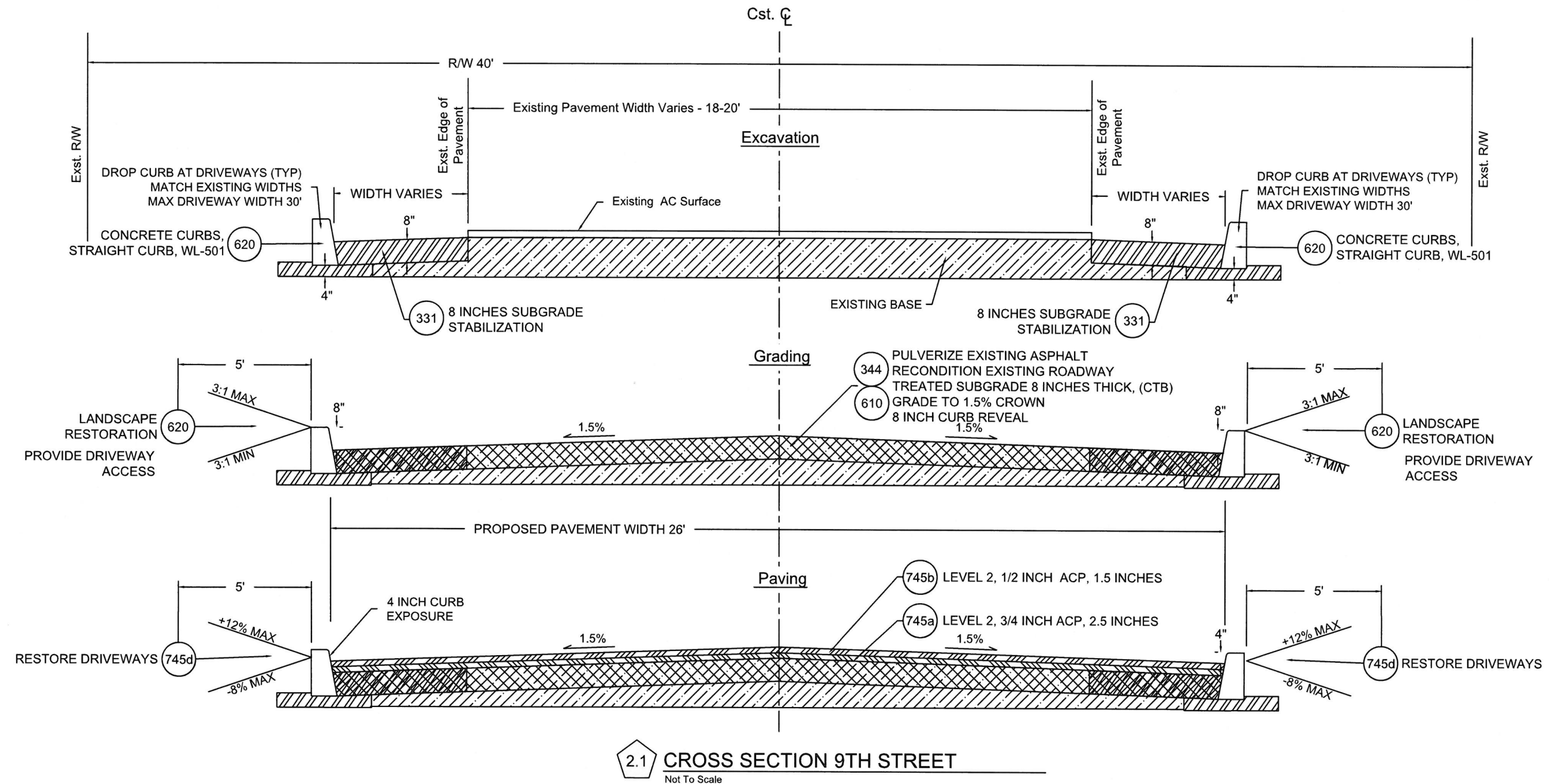
REVISION

DATE	DESCRIPTION
06/06/2016	Sewer Work
09/26/2016	Proposed elevations

PAVING PLAN

SCALE: 1" = 40' Horizontal

C2.0

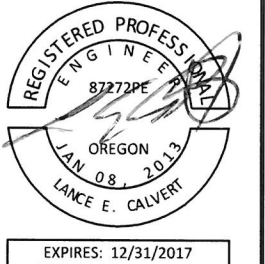


SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	9th ST
(310)	00310.92c	REMOVAL OF WALKS	SY	40
(331)	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	200
(344)	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)	SY	1217
(344c)	00344.90c	PORTLAND CEMENT	TON	24
(445b)	00445.91b	8 INCH PVC (SDR 35) PIPE	LF	120
(445d)	00445.91d	PIPE WYES, 4 INCH SERVICE CONNECTION	EA	3
(470c)	00470.90c	CONCRETE MANHOLES, PRECAST (48")	EA	1
(490a)	00490.90a	MINOR ADJUSTMENT OF MANHOLES	EA	1
(SP1)		ASPHALT PULVERIZING	SY	1,217

SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	9th ST
(490v)	00490.90d(v)	ADJUSTING BOXES (VANCOUVER STYLE REPLACEMENT), WL-411	EA	1
(490g(s))	00490.90g(s)	CONNECTION TO EXISTING SERVICE LINE	EA	3
(490g)	00490.90g	CONNECTION TO EXISTING STRUCTURES	EA	1
(610)	00610.90	RECONDITION EXISTING ROADWAY	EA	1
(745a)	00745.90	LEVEL 2, 3/4 INCH ACP	TON	175
(745b)	00745.90	LEVEL 2, 1/2 INCH ACP	TON	105
(749)	00749.92a	ASPHALT APPROACHES	EA	8
(759a)	00759.90a	CONCRETE CURBS, CURB AND GUTTER WL-501	LF	820
(759c)	00759.90c	CONCRETE DRIVEWAY, 6 INCHES DEPTH WL-503B	EA	4



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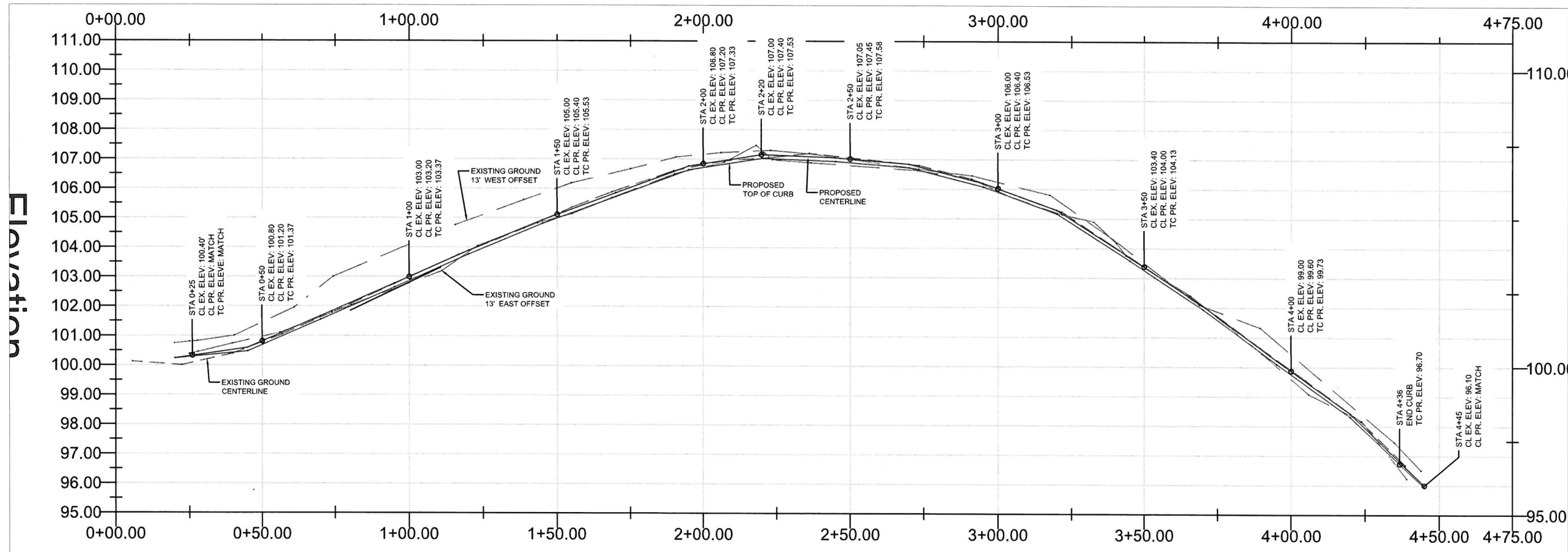
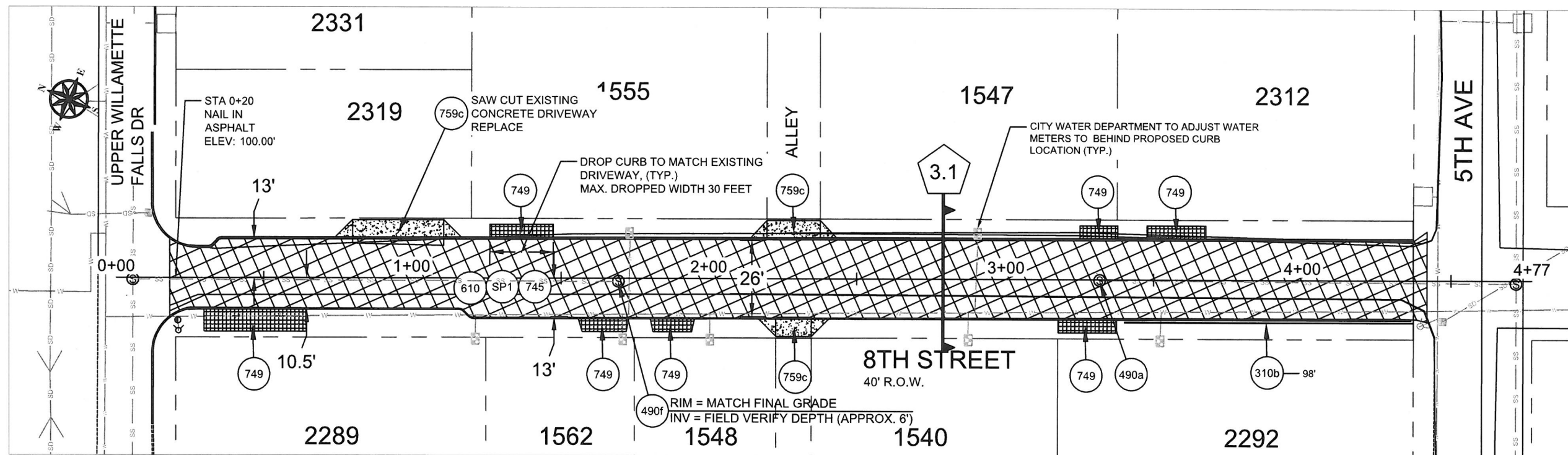
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DRAWN BY: NBRENNAN
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REVISION
DATE DESCRIPTION
06/06/2016 Quantity Revision
09/26/2016 Cross slope

CONSTRUCTION DETAILS

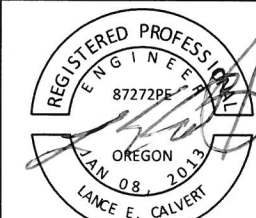
C2.1



NOTE: MANHOLE OVER EXISTING SEWER INCLUDES REMOVAL OF EXISTING CLEANOUT AS INCIDENTAL. LOCATION TO BE POTHOLED PRIOR TO INSTALLATION TO VERIFY DEPTH.



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DATE	DESCRIPTION
06/06/2016	Sewer Work
09/26/2016	Proposed elevations

PAVING PLAN

SCALE: 1" = 40' Horizontal

C3.0



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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

CITY OF WEST LINN
2016 ROAD PROGRAM
6TH AVE
FROM 11TH ST TO 12TH ST

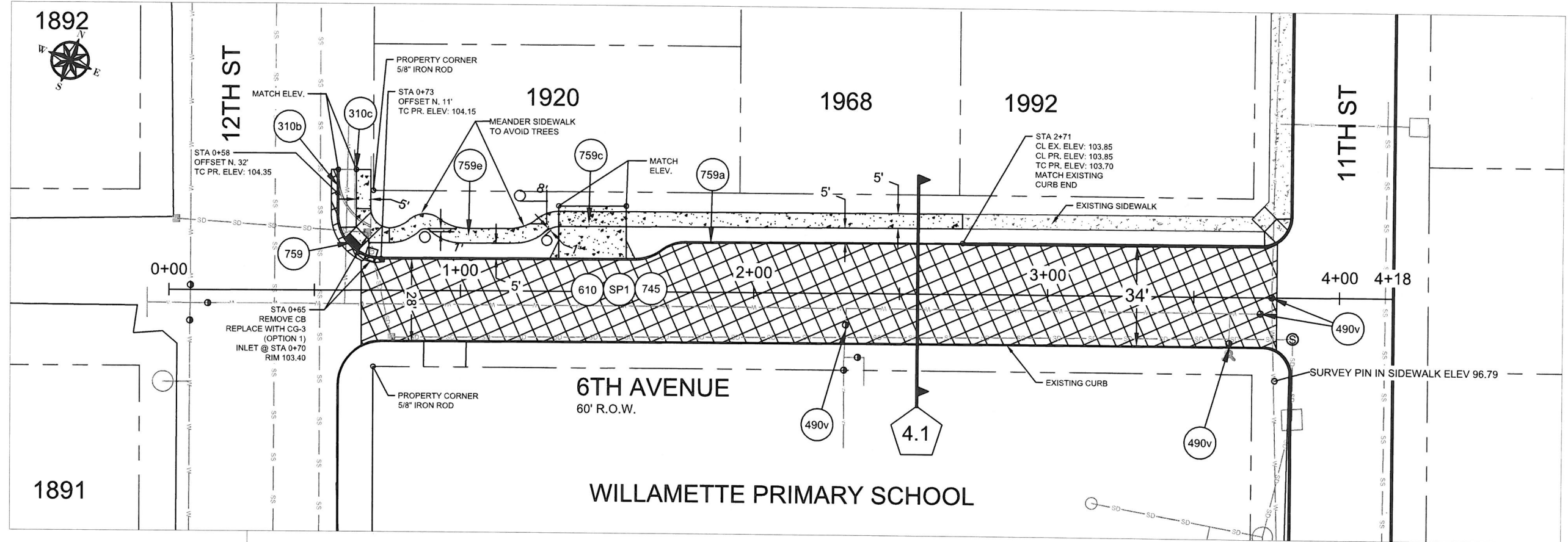
PROJECT NO.: PW-16-01
DESIGNED BY: LCAVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION
06/06/2016	Street name correction
08/02/2016	Meander sidewalk

PAVING PLAN

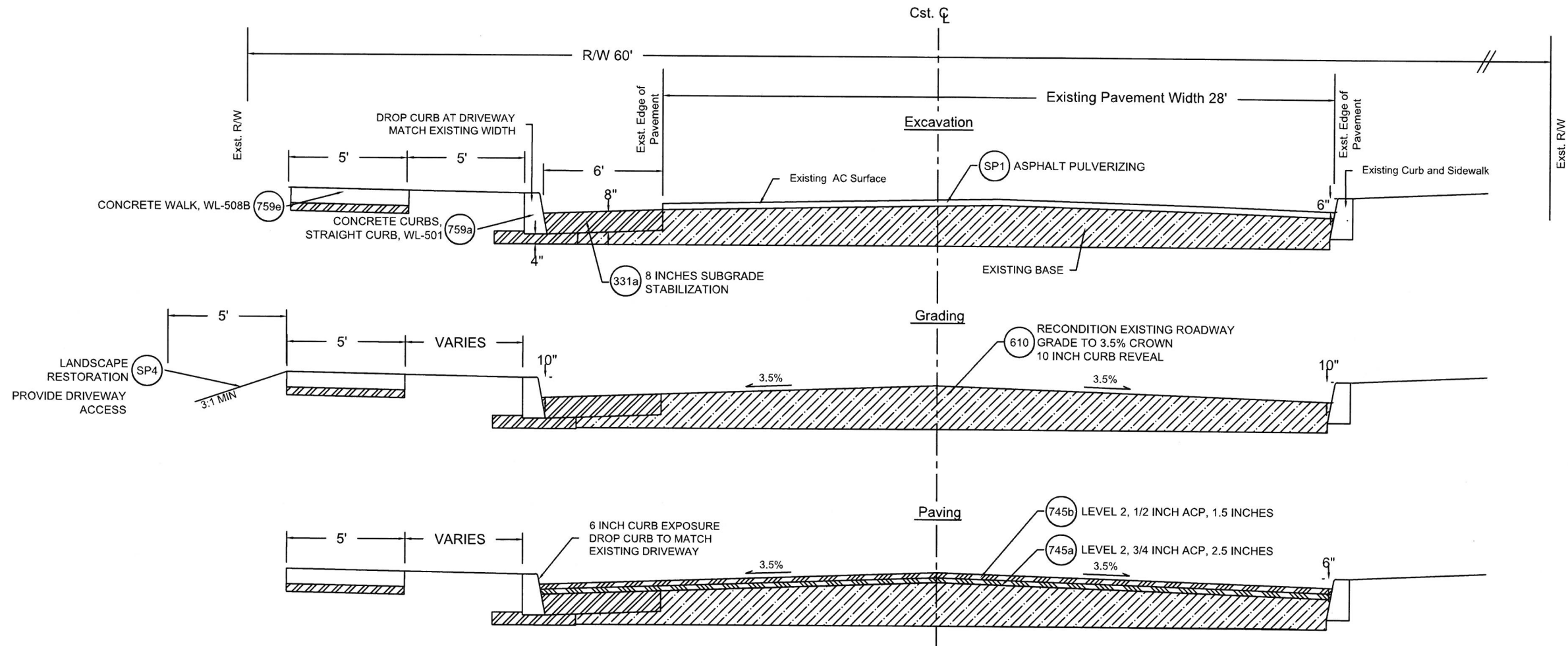
SCALE: 1" = 40' Horizontal

C4.0



- CONSTRUCTION NOTES:
1. MAXIMUM 5 CALENDAR DAYS BETWEEN REMOVAL OF EXISTING SURFACE AND INSTALLING BASE LIFT ACP. DAYS IN EXCESS OF MAXIMUM WILL RESULT IN LIQUIDATED DAMAGES.
 2. UTILITY LOCATIONS ARE BASED ON CITY OF WEST LINN GIS MAPPING. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 3. ALL PAVEMENT REMOVAL AT DRIVEWAYS SHALL BE SAW CUT. NO "FEATHERING" TO EXISTING DRIVEWAY SURFACING.





4.1 CROSS SECTION 6TH AVENUE
Not To Scale

SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	6th Ave
310b	00310.92b	REMOVAL OF CURBS	LF	30
310c	00310.92c	REMOVAL OF WALKS AND DRIVEWAYS	SY	10
331	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	140
470	00470.90a	CONCRETE INLETS	EA	1
490v	00490.90d(v)	ADJUSTING BOXES (VANCOUVER STYLE REPLACEMENT), WL-411	EA	4
610	00610.90	RECONDITION EXISTING ROADWAY	EA	1
SP1	00620.90	ASPHALT PULVERIZING	SY	1,209

SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	6th Ave
745a	00745.90	LEVEL 2, 3/4 INCH ACP	TON	140
745b	00745.90	LEVEL 2, 1/2 INCH ACP	TON	104
759a	00759.90a	CONCRETE CURBS, STRAIGHT CURB WL-501	LF	230
759	00759.90	ADA CURB RAMP	EA	1
759e	00759.90e	CONCRETE WALKS, WL-508B	SF	1,282
759c	00759.90c	CONCRETE DRIVEWAY, 6 INCHES DEPTH WL-503B	EA	1



CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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PHONE: (503) 567-0331
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EXPIRES: 12/31/2017

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

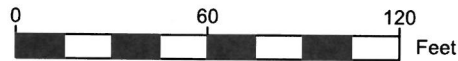
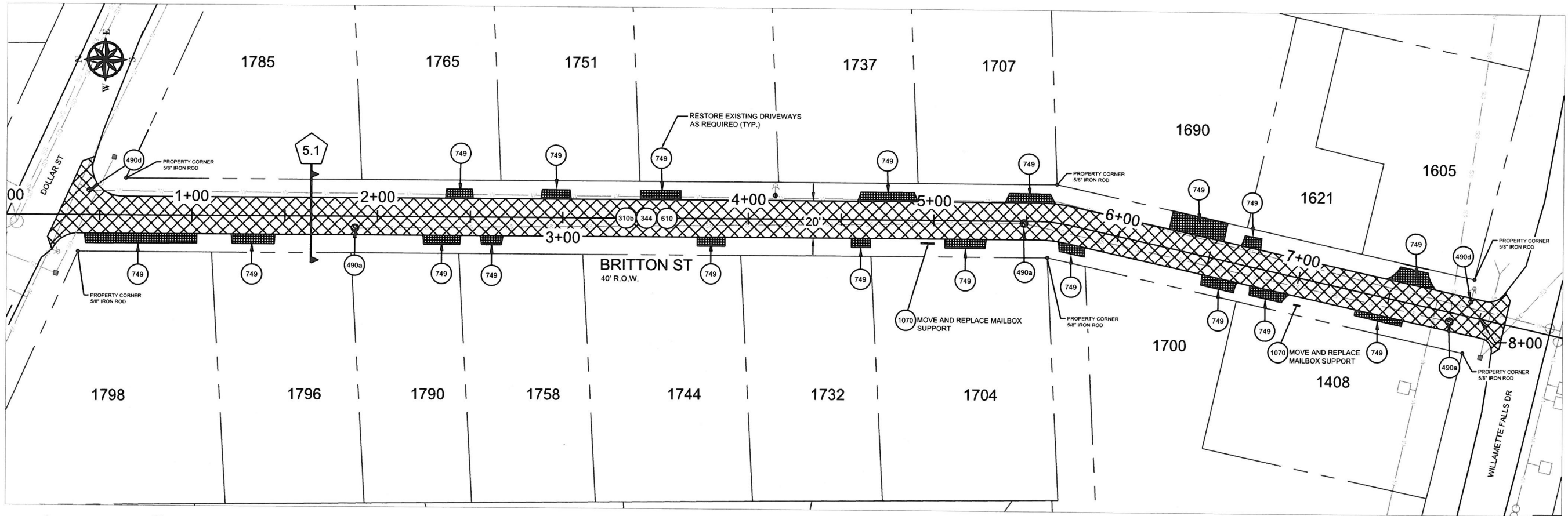
CITY OF WEST LINN
2016 ROAD PROGRAM
6TH AVE
FROM 11TH ST TO 12TH ST

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION
08/02/2016	Revise planter strip width

CONSTRUCTION DETAILS

C4.1



SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	Britton St
(SP1)	SP1	ASPHALT PULVERIZING	SY	1790
(344)	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)	SY	1792
(344c)	00344.90c	PORTLAND CEMENT	TON	35
(490a)	00490.90a	MINOR ADJUSTMENT OF MANHOLES	EA	3
(490d)	00490.90d	ADJUSTING BOXES	EA	2
(610)	00610.90	RECONDITION EXISTING ROADWAY	EA	1
(745a)	00745.90	LEVEL 2, 3/4 INCH ACP	TON	257
(745b)	00745.90	LEVEL 2, 1/2 INCH ACP	TON	154
(749)	00749.92(a)	ASPHALT APPROACHES	EA	19
(1070)	01070.90	MAILBOX SUPPORT	EA	2

- CONSTRUCTION NOTES:
1. MAXIMUM 5 CALENDAR DAYS BETWEEN REMOVAL OF EXISTING SURFACE AND INSTALLING BASE LIFT ACP. DAYS IN EXCESS OF MAXIMUM WILL RESULT IN LIQUIDATED DAMAGES
 2. UTILITY LOCATIONS ARE BASED ON CITY OF WEST LINN GIS MAPPING. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 3. NO SEPARATE PAYMENT FOR EXCAVATION OF DRIVEWAYS
 4. ALL APPROACHES REQUIRE BUTT JOINT WITH SAWCUT VERTICAL FACE TO MATCH EXISTING.



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EXPIRES: 12/31/2017

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

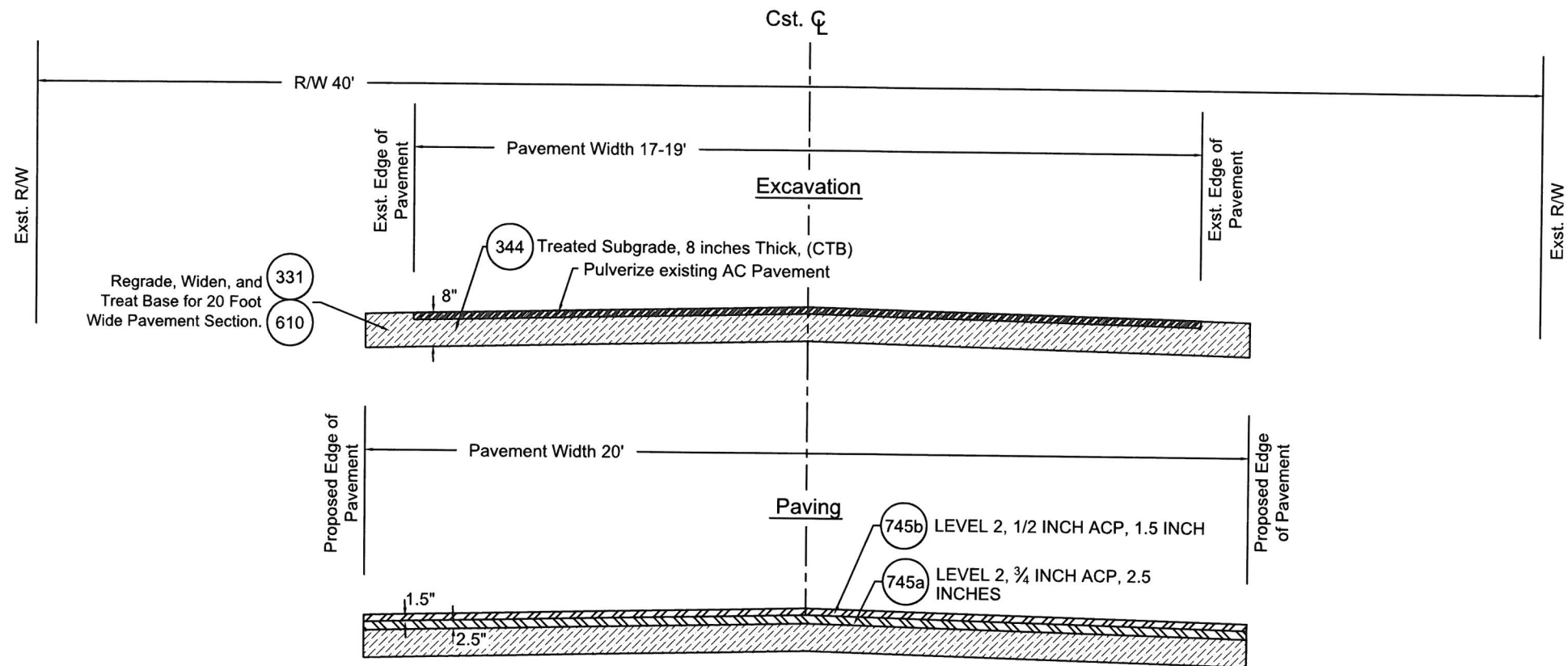
CITY OF WEST LINN
2016 ROAD PROGRAM
BRITTON ST FROM DOLLAR ST TO
WILLAMETTE FALLS DRIVE

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION
DATE DESCRIPTION

PAVING PLAN
SCALE: 1" = 60' Horizontal

C5.0



5.1 CROSS SECTION BRITTON ST
Not To Scale



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



EXPIRES: 12/31/2017

CONTRACTOR

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

CITY OF WEST LINN

2016 ROAD PROGRAM

BRITTON ST FROM DOLLAR ST TO
WILLAMETTE FALLS DRIVE

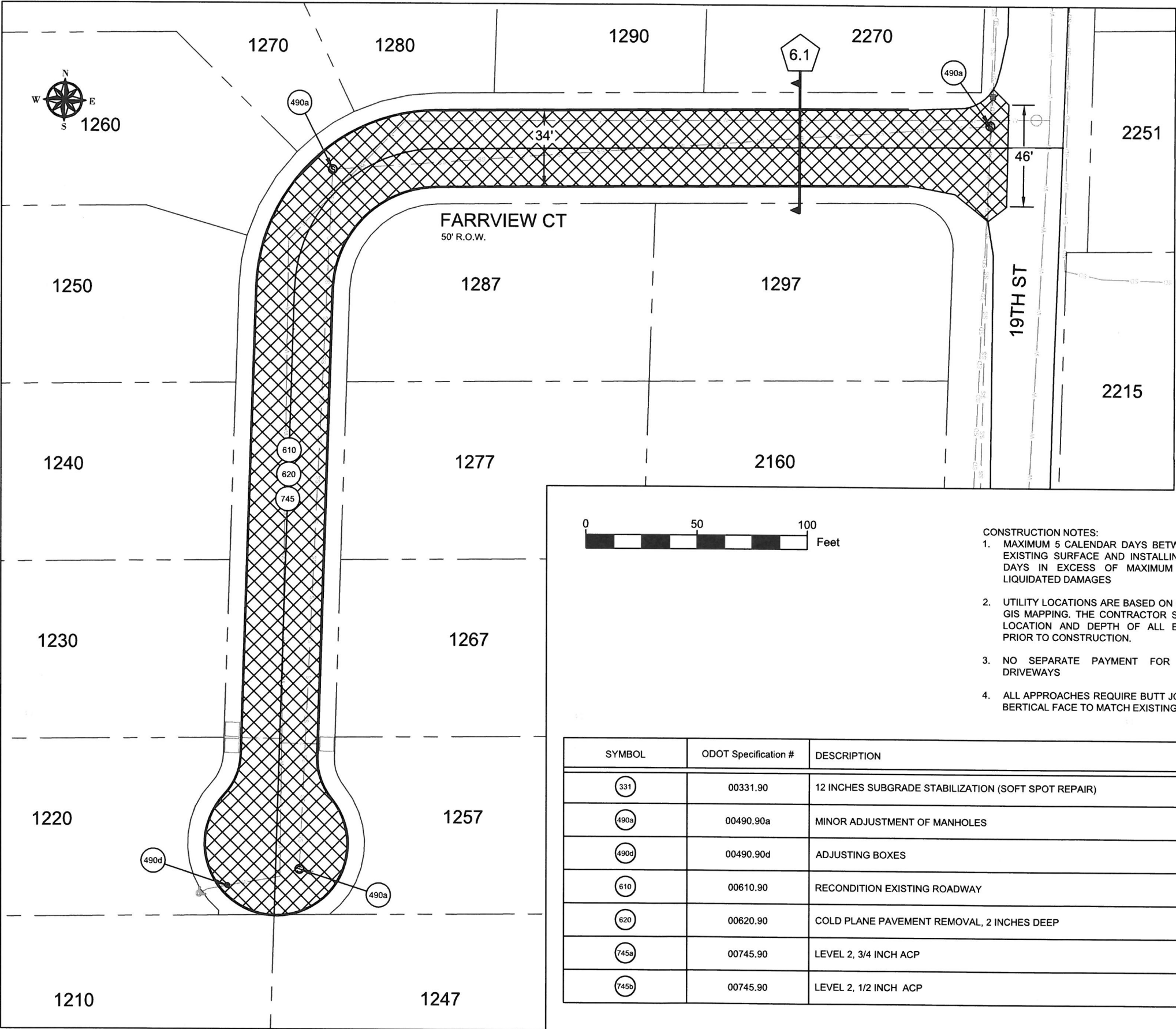
PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION

DATE	DESCRIPTION

CONSTRUCTION DETAILS

C5.1

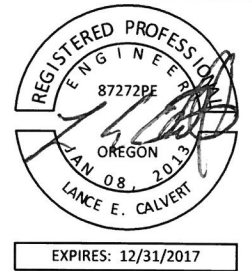


- CONSTRUCTION NOTES:
1. MAXIMUM 5 CALENDAR DAYS BETWEEN REMOVAL OF EXISTING SURFACE AND INSTALLING BASE LIFT ACP. DAYS IN EXCESS OF MAXIMUM WILL RESULT IN LIQUIDATED DAMAGES
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 3. NO SEPARATE PAYMENT FOR EXCAVATION OF DRIVEWAYS
 4. ALL APPROACHES REQUIRE BUTT JOINT WITH SAWCUT BERTICAL FACE TO MATCH EXISTING.

SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	Farrview Ct
(331)	00331.90	12 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	200
(490a)	00490.90a	MINOR ADJUSTMENT OF MANHOLES	EA	2
(490d)	00490.90d	ADJUSTING BOXES	EA	1
(610)	00610.90	RECONDITION EXISTING ROADWAY	EA	1
(620)	00620.90	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP	SY	2,585
(745a)	00745.90	LEVEL 2, 3/4 INCH ACP	TON	372
(745b)	00745.90	LEVEL 2, 1/2 INCH ACP	TON	223



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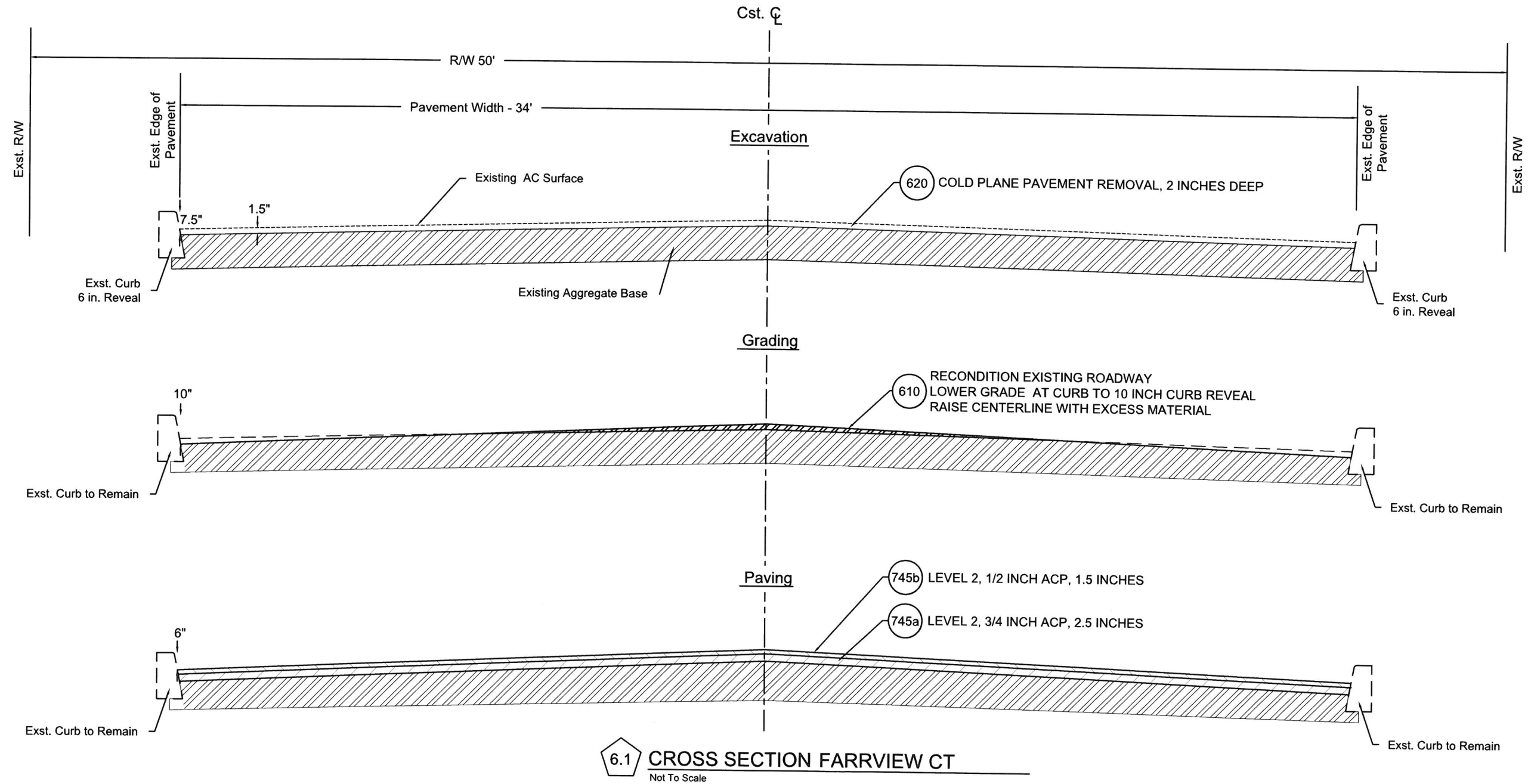
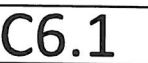
CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

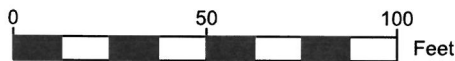
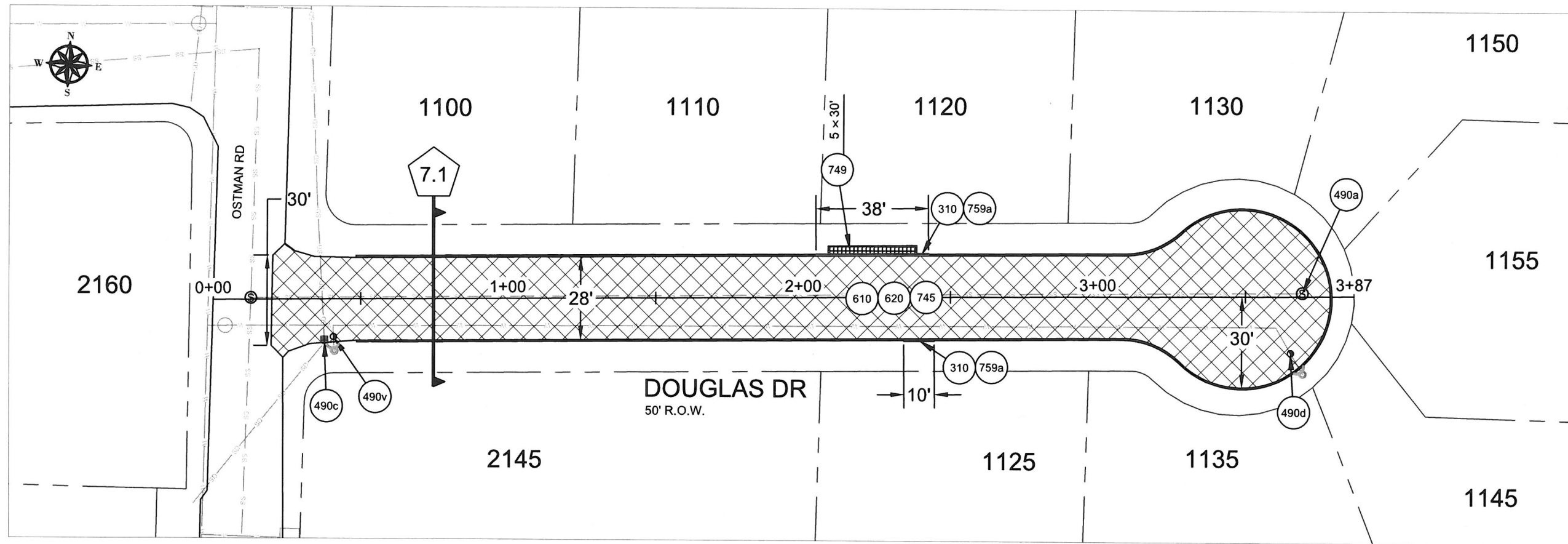
CITY OF WEST LINN
2016 ROAD PROGRAM
FARRVIEW CT
FROM 19TH ST TO END

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION
DATE DESCRIPTION

PAVING PLAN
SCALE: 1" = 50' Horizontal
C6.0





- CONSTRUCTION NOTES:
1. MAXIMUM 5 CALENDAR DAYS BETWEEN REMOVAL OF EXISTING SURFACE AND INSTALLING BASE LIFT ACP. DAYS IN EXCESS OF MAXIMUM WILL RESULT IN LIQUIDATED DAMAGES
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 3. NO SEPARATE PAYMENT FOR EXCAVATION OF DRIVEWAYS
 4. ALL APPROACHES REQUIRE BUTT JOINT WITH SAWCUT VERTICAL FACE TO MATCH EXISTING.

SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	Douglas ct
310	00310.92b	REMOVAL OF CURBS	LF	48
331	00331.90	12 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	200
490a	00490.90a	MINOR ADJUSTMENT OF MANHOLES	EA	1
490c	00490.90c	ADJUSTING INLETS	EA	1
490d	00490.90d	ADJUSTING BOXES	EA	1
490v	00490.90d(v)	ADJUSTING BOXES (VANCOUVER STYLE REPLACEMENT), WL-411	EA	1
610	00610.90	RECONDITION EXISTING ROADWAY	EA	1
620	00620.90	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP	SY	1,261
745a	00745.90	LEVEL 2, 3/4 INCH ACP	TON	181
745b	00745.90	LEVEL 2, 1/2 INCH ACP	TON	145
749	00749.92(a)	ASPHALT APPROACH	EA	1
759a	00759.90a	CONCRETE CURBS, STRAIGHT CURB WL-501	LF	48



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WEST LINN, OREGON 97068
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CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2016 ROAD PROGRAM
DOUGLAS DR
FROM OSTMAN RD TO END

PROJECT NO.: PW-16-01
DESIGNED BY: L CALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION
PAVING PLAN	
SCALE: 1" = 50' Horizontal	
C7.0	



CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
PHONE: (503) 567-0331
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CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2016 ROAD PROGRAM

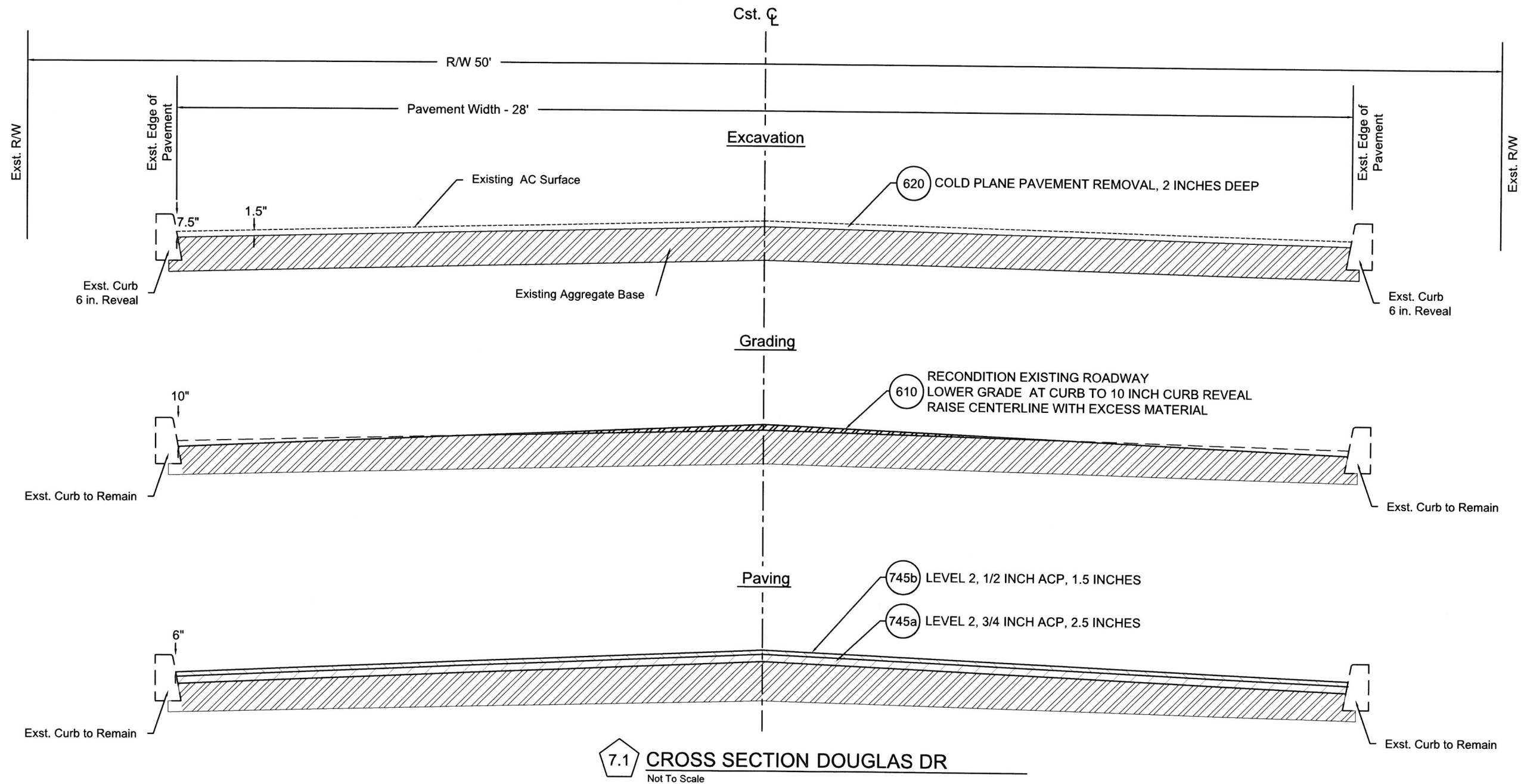
DOUGLAS DR
FROM OSTMAN RD TO END

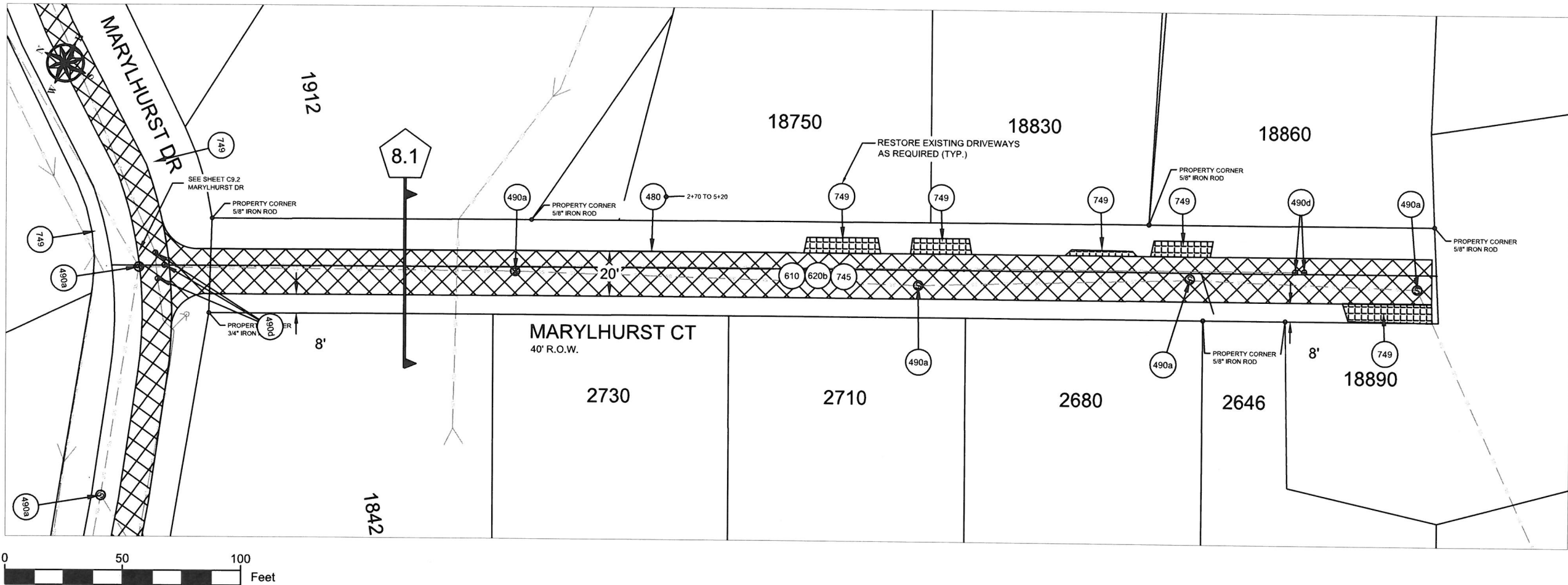
PROJECT NO.: PW-16-01
DESIGNED BY: LCAVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

CONSTRUCTION DETAILS

C7.1



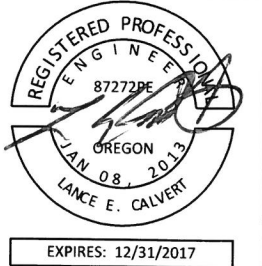


- CONSTRUCTION NOTES:
1. MAXIMUM 5 CALENDAR DAYS BETWEEN REMOVAL OF EXISTING SURFACE AND INSTALLING BASE LIFT ACP. DAYS IN EXCESS OF MAXIMUM WILL RESULT IN LIQUIDATED DAMAGES.
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 3. ALL PAVEMENT REMOVAL AT DRIVEWAYS SHALL BE SAW CUT. NO "FEATHERING" TO EXISTING DRIVEWAY SURFACING.

SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	Marylhurst Ct
331b	00331.90	12 INCHES SUBGRADE STABILIZATION (SOFT SPOT REPAIR)	SY	300
480	00480.90	DRAINAGE CURB, AC	LF	250
490a	00490.90a	MINOR ADJUSTMENT OF MANHOLES	EA	4
490d	00490.90d	ADJUSTING BOXES	EA	2
610	00610.90	RECONDITION EXISTING ROADWAY	EA	1
620b	00620b.90	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP	SY	1167
745a	00745.90	LEVEL 2, 3/4 INCH ACP	TON	134
745b	00745.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP*	TON	110
749	00749.90a	ASPHALT APPROACHES	EA	5



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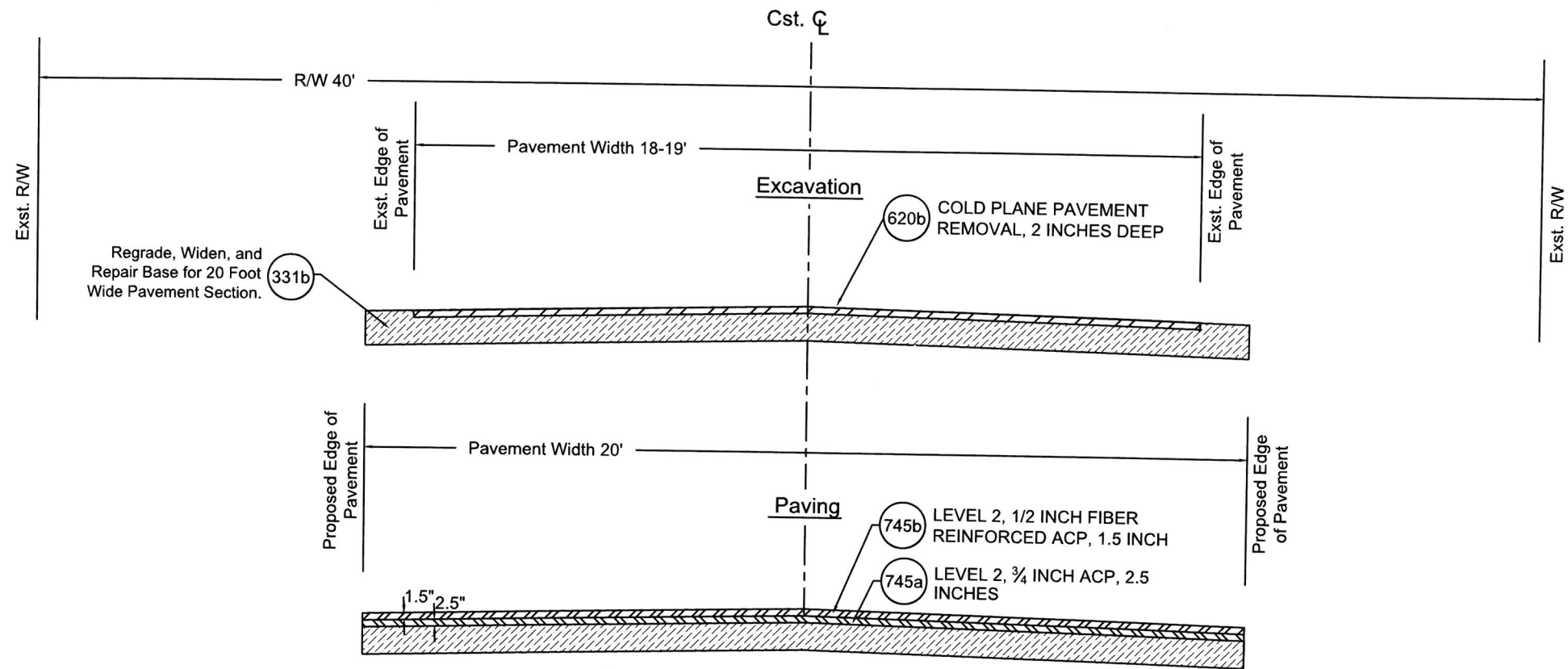
CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2016 ROAD PROGRAM
MARYLHURST CT
FROM MARYLHURST DR TO END

PROJECT NO.: PW-16-01
DESIGNED BY: L CALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/19/2016

REVISION	
DATE	DESCRIPTION

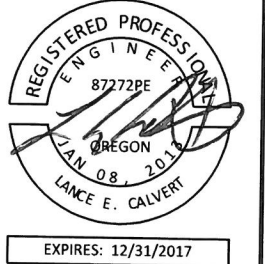
PAVING PLAN
SCALE: 1" = 50'
C8.0



8.1 CROSS SECTION MARYLHURST CT
Not To Scale



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



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

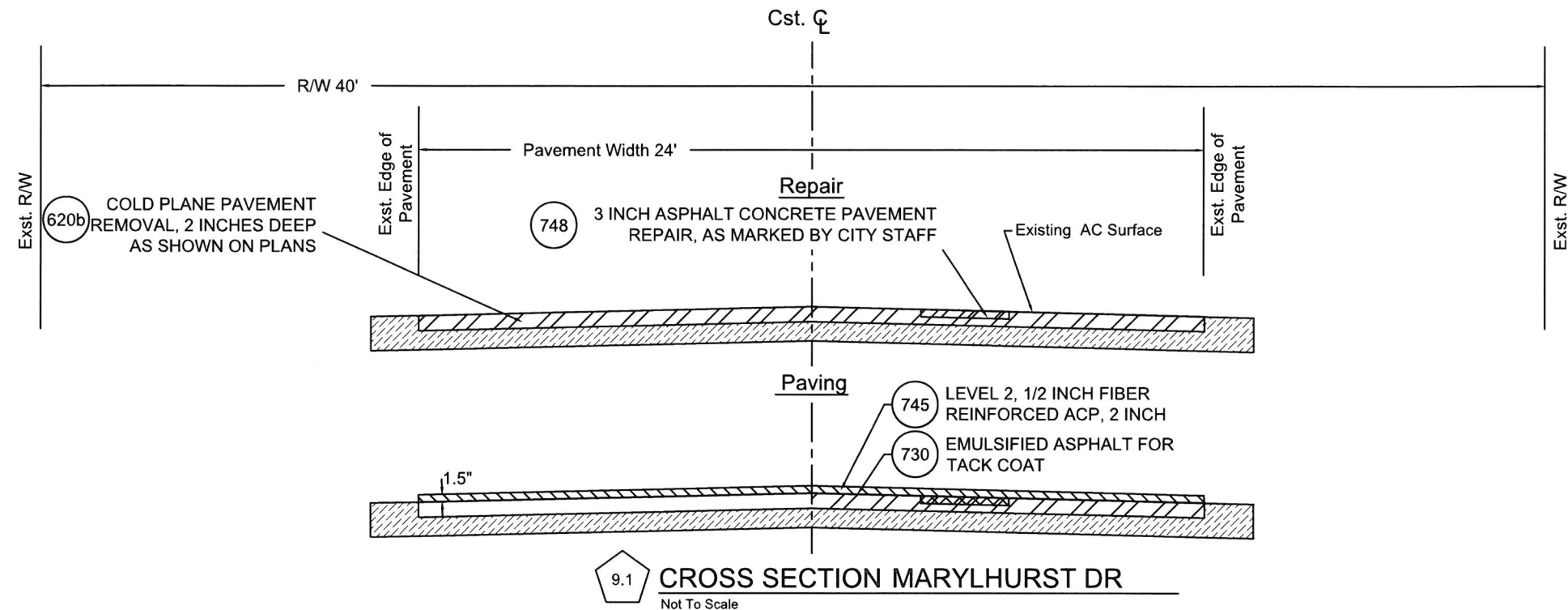
CITY OF WEST LINN
2016 ROAD PROGRAM
MARYLHURST CT
FROM MARYLHURST DR TO END

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

CONSTRUCTION DETAILS

C8.1



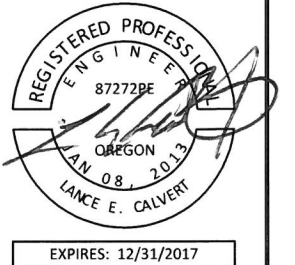
SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	Marylhurst Dr
480	00480.90	DRAINAGE CURB, AC	LF	1,500
490a	00490.90a	MINOR ADJUSTMENT OF MANHOLES	EA	13
490d	00490.90d	ADJUSTING BOXES	EA	16
490v	00490.90d(v)	ADJUSTING BOXES (VANCOUVER STYLE REPLACEMENT), WL-411	EA	7
620b	00620b.90	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP	SY	4500
730	00730.90	EMULSIFIED ASPHALT FOR TACK COAT	TON	5
745	00749.90	LEVEL 2, 1/2 INCH FIBER REINFORCED ACP	TON	1,040
745a	00745.90	LEVEL 2, 3/4 INCH ACP	TON	90
748	00748.90	3 INCH, ASPHALT CONCRETE PAVEMENT REPAIR	SY	500
749	00749.90a	ASPHALT APPROACHES	EA	31

CONSTRUCTION NOTES:

- UTILITY LOCATIONS ARE BASED ON CITY OF WEST LINN GIS MAPPING. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- ALL PAVEMENT REMOVAL AT DRIVEWAYS SHALL BE SAW CUT. NO "FEATHERING" TO EXISTING DRIVEWAY SURFACING.



CITY OF WEST LINN
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CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
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FAX: -N/A

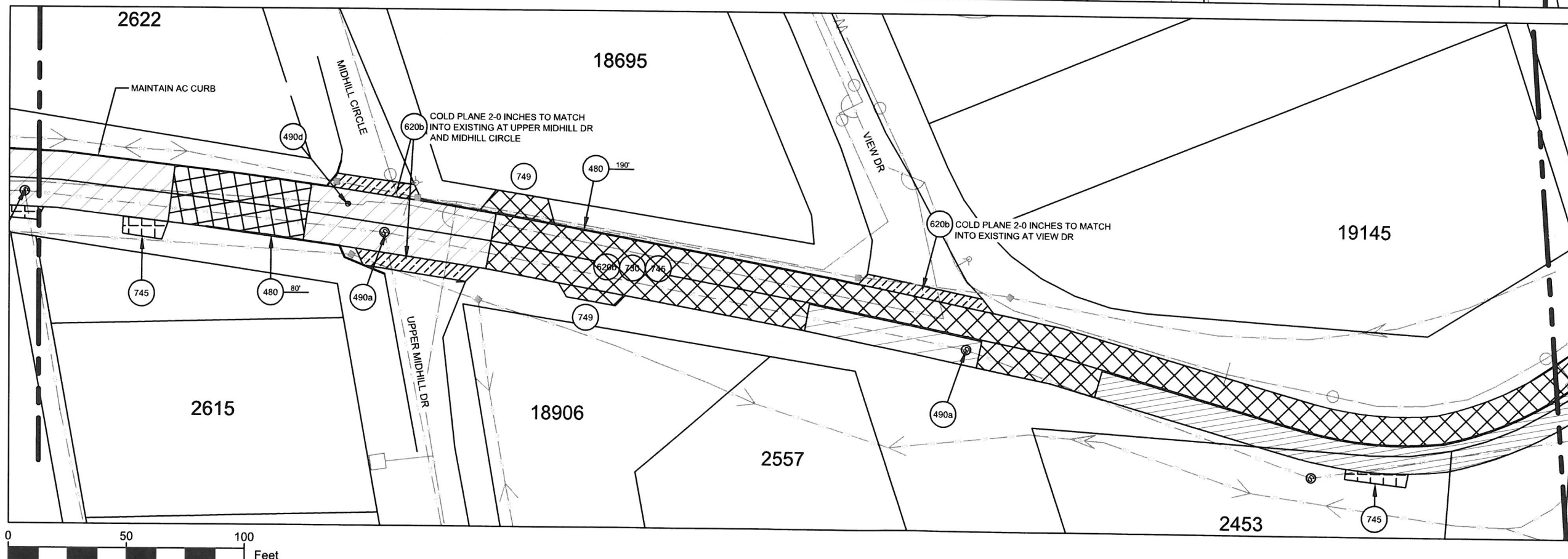
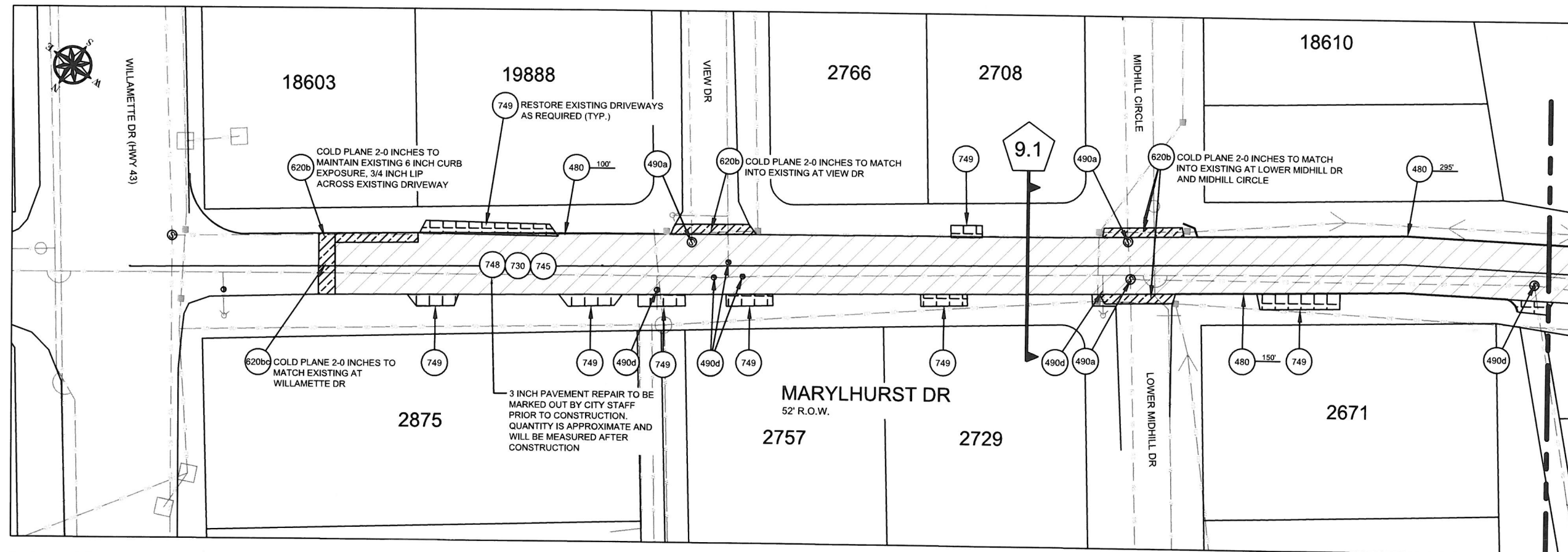
CITY OF WEST LINN
2016 ROAD PROGRAM
MARYLHURST DR FROM HILLCREST DR
TO HWY 43(WILLAMETTE DR)

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION
DATE DESCRIPTION

CONSTRUCTION DETAILS

C9.0



CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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PHONE: (503) 567-0331
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EXPIRES: 12/31/2017

CONTRACTOR

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

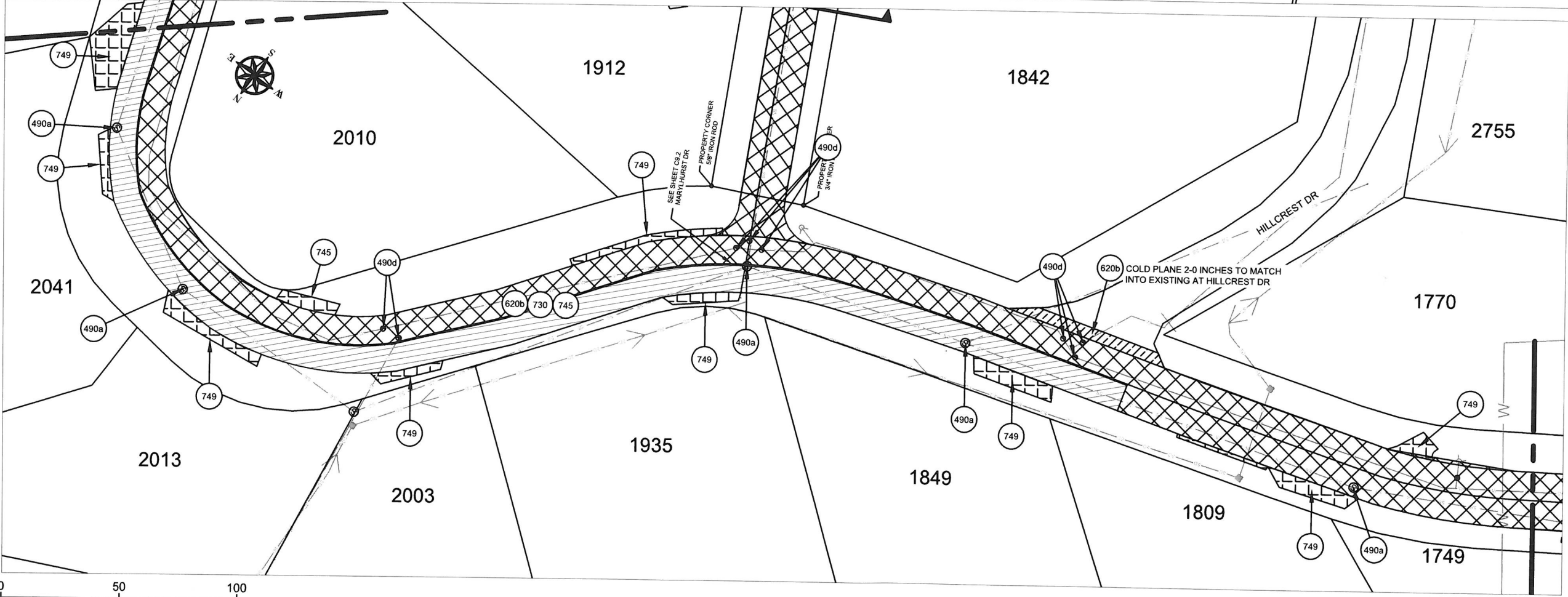
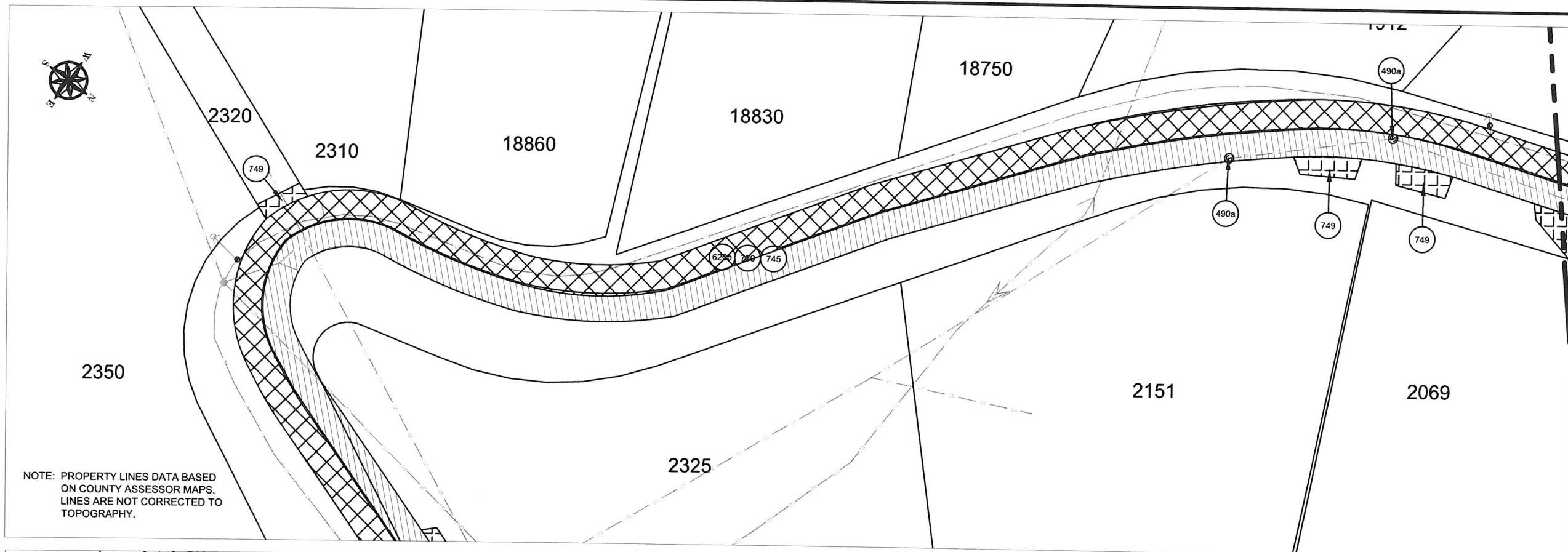
CITY OF WEST LINN 2016 ROAD PROGRAM MARYLHURST DR FROM HILLCREST DR TO HWY 43 (WILLAMETTE DR)

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016


REVISION	
DATE	DESCRIPTION

PAVING PLAN
SCALE: 1" = 50'


C9.1



NOTE: PROPERTY LINES DATA BASED ON COUNTY ASSESSOR MAPS. LINES ARE NOT CORRECTED TO TOPOGRAPHY.



CITY OF WEST LINN
22500 SALAMO ROAD
WEST LINN, OREGON 97068
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PHONE: (503) 567-0331
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REGISTERED PROFESSIONAL ENGINEER
OREGON
87272PE
LANCE E. CALVERT
EXPIRES: 12/31/2017

CONTRACTOR

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

CITY OF WEST LINN
2016 ROAD PROGRAM

MARYLHURST DR FROM HILLCREST DR
TO HWY 43(WILLAMETTE DR)

PROJECT NO.: PW-16-01
DESIGNED BY: L CALVERT
DRAWN BY: NBRENNAN

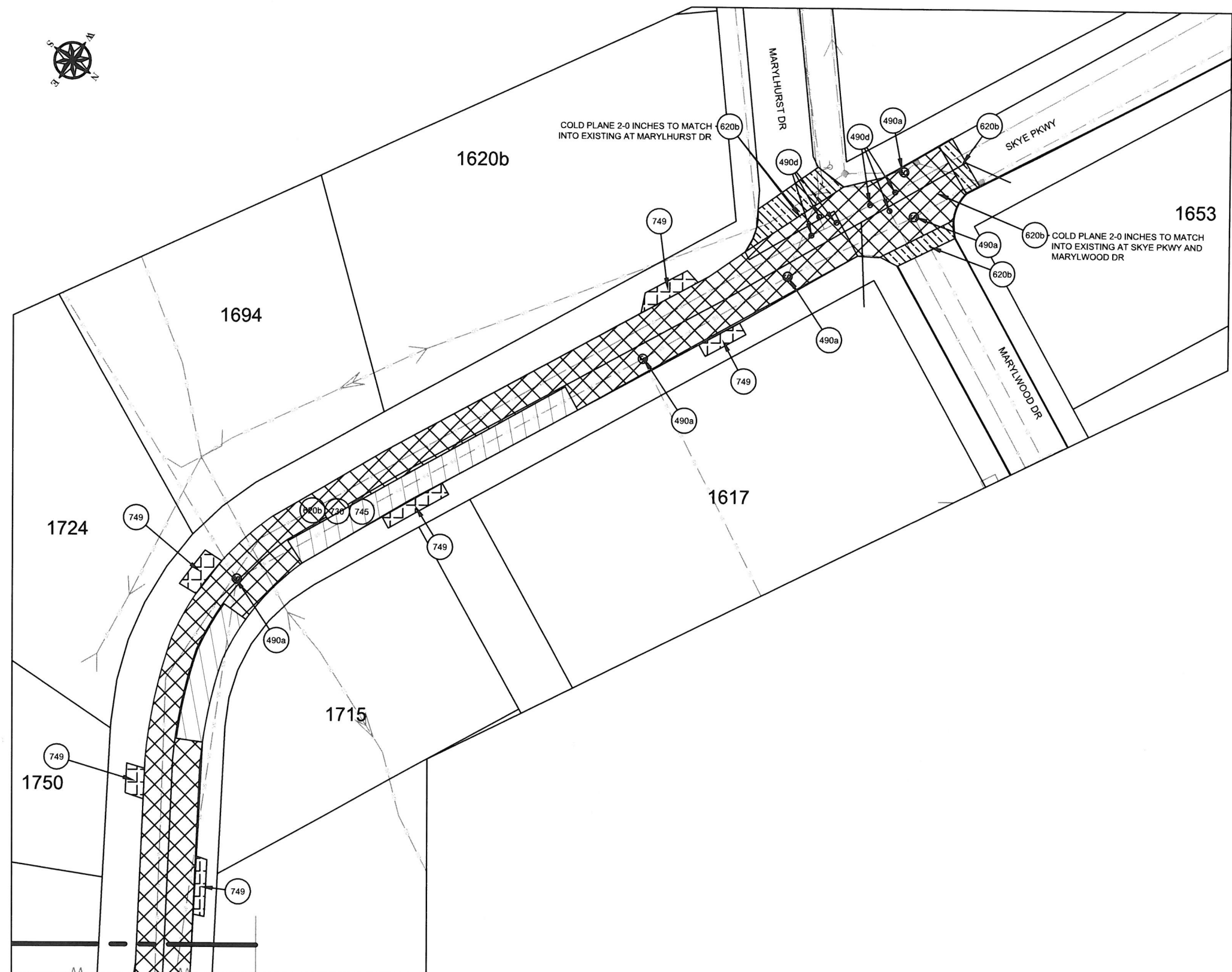
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

PAVING PLAN

SCALE: 1" = 50'

C9.2



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

REGISTERED PROFESSIONAL
ENGINEER
87272PE
OREGON
JAN 08, 2013
LANCE E. CALVERT
EXPIRES: 12/31/2017

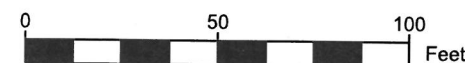
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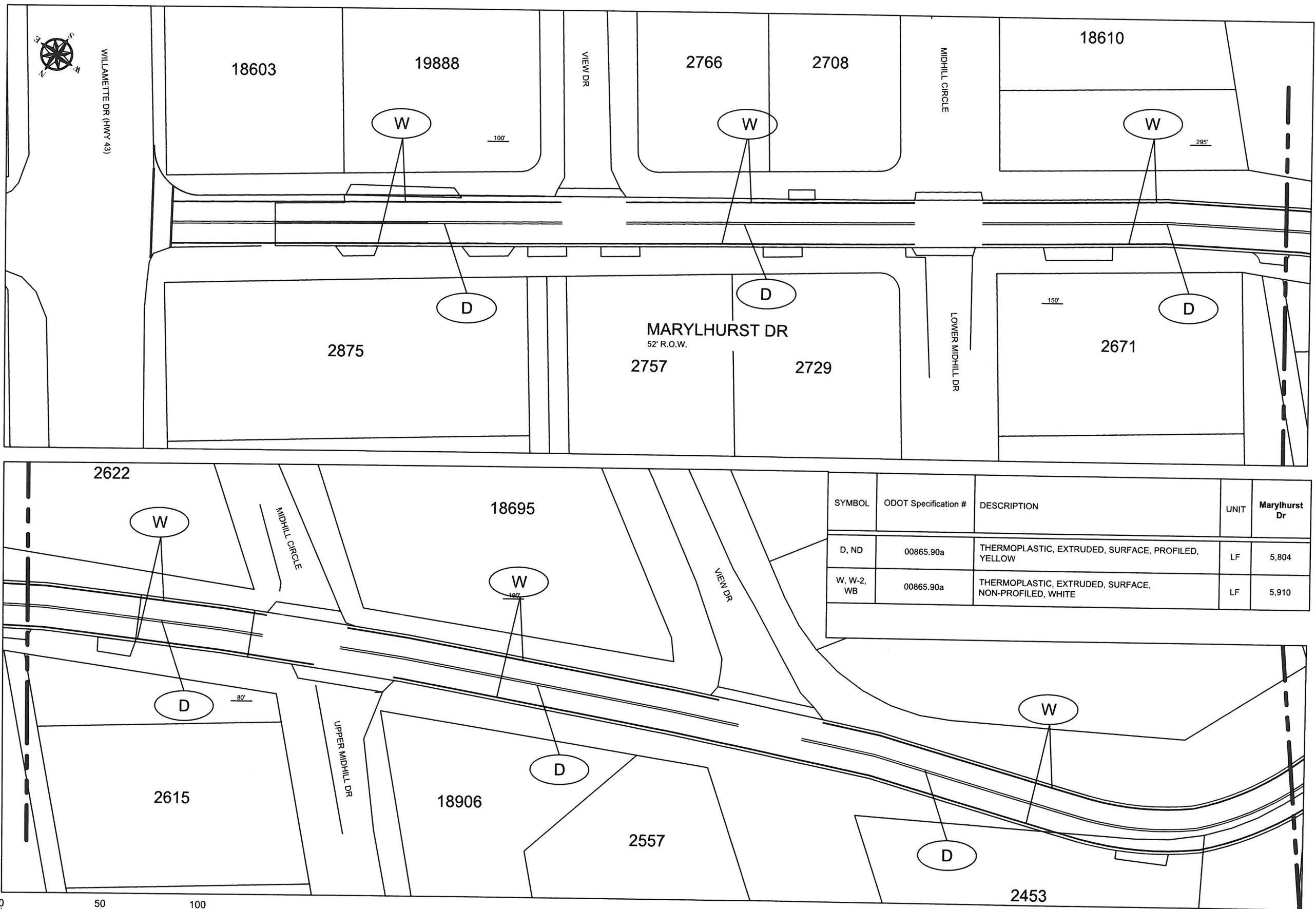
CITY OF WEST LINN
2016 ROAD PROGRAM
MARYLHURST DR FROM HILLCREST DR
TO HWY 43 (WILLAMETTE DR)

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

PAVING PLAN
SCALE: 1" = 50'
C9.3

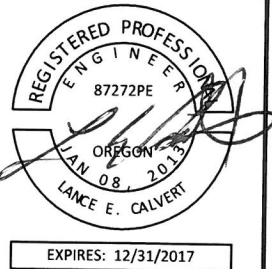




SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	Marylhurst Dr
D, ND	00865.90a	THERMOPLASTIC, EXTRUDED, SURFACE, PROFILED, YELLOW	LF	5,804
W, W-2, WB	00865.90a	THERMOPLASTIC, EXTRUDED, SURFACE, NON-PROFILED, WHITE	LF	5,910



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FAX: (503) 650-9041



CONTRACTOR

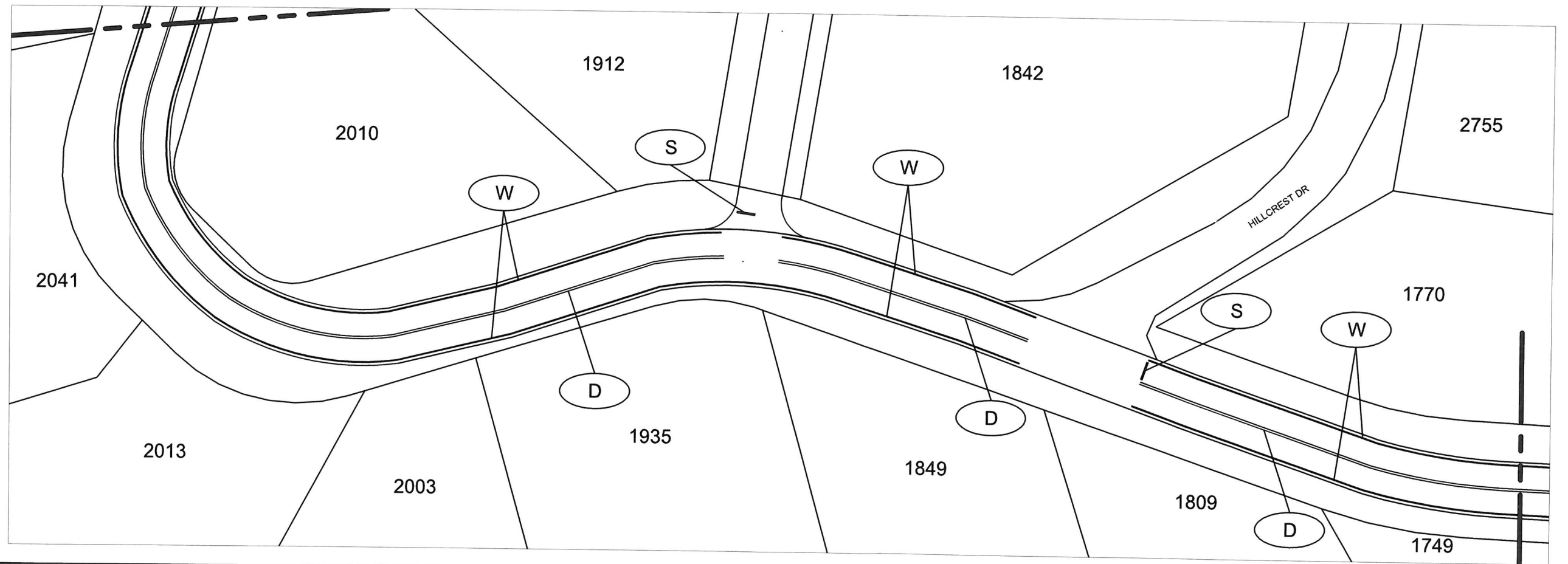
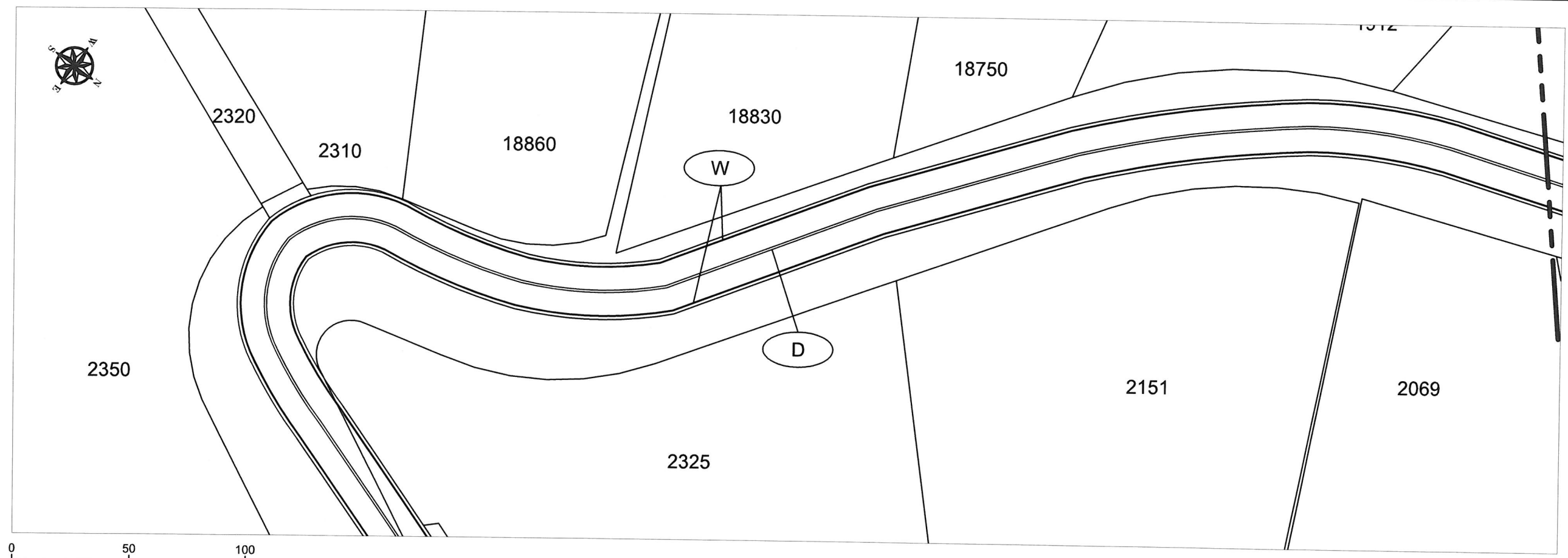
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
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CITY OF WEST LINN
2016 ROAD PROGRAM
MARYLHURST DR FROM HILLCREST DR
TO HWY 43 (WILLAMETTE DR)

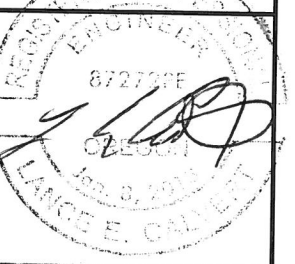
PROJECT NO.: PW-16-01
DESIGNED BY: LCAVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

STRIPING PLAN
SCALE: 1" = 50'
S1.0



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



EXPIRES: 12/31/2017

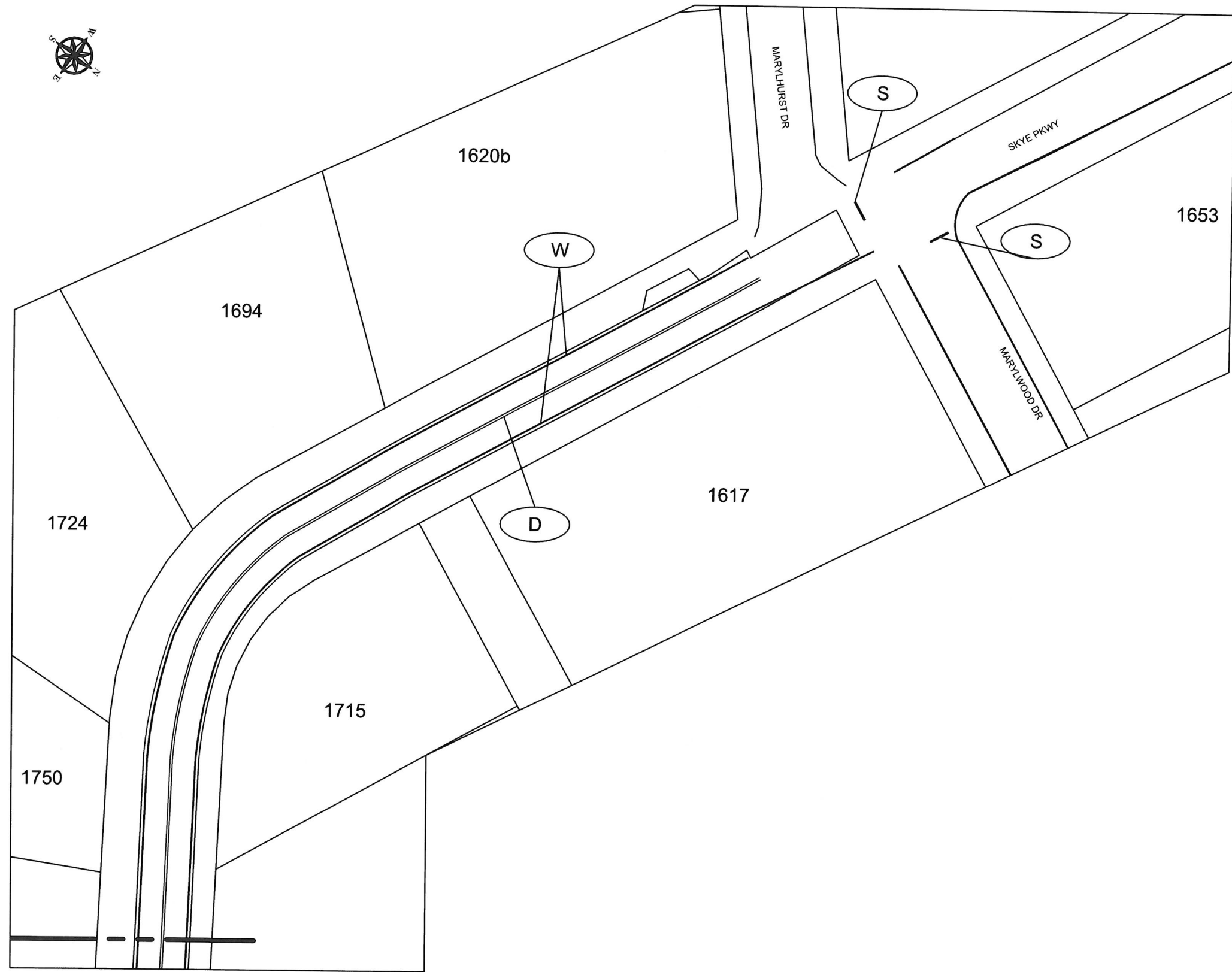
CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

**CITY OF WEST LINN
2016 ROAD PROGRAM**
MARYLHURST DR FROM HILLCREST DR
TO HWY 43 (WILLAMETTE DR)

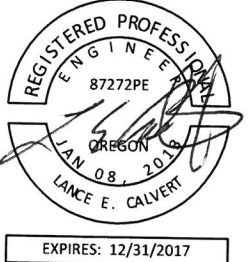
PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

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



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22500 SALAMO ROAD
WEST LINN, OREGON 97068
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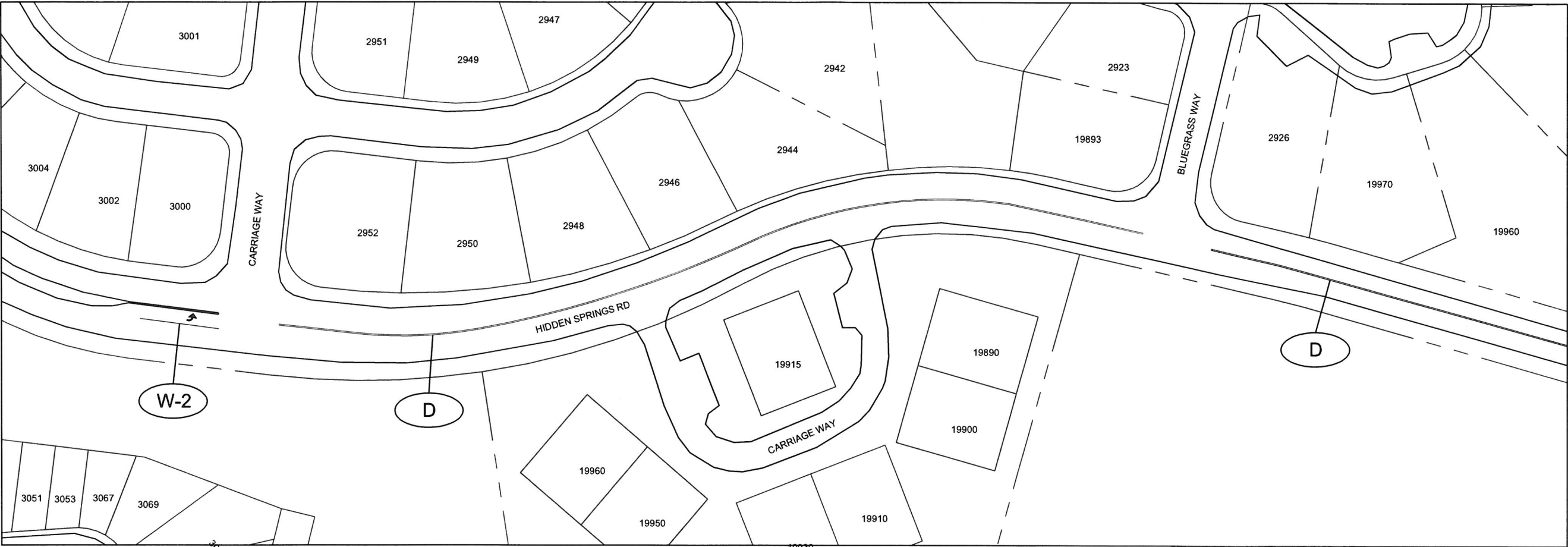
CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
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FAX: -N/A

CITY OF WEST LINN
2016 ROAD PROGRAM
MARYLHURST DR FROM HILLCREST DR
TO HWY 43(WILLAMETTE DR)

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
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DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

STRIPING PLAN
SCALE: 1" = 50'
S1.2



SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	Hidden Springs Rd
-	00851.90	PAVEMENT LINE REMOVAL	LF	7,990
D, ND	00865.90a	THERMOPLASTIC, EXTRUDED, SURFACE, PROFILED, YELLOW	LF	7,550
W, W-2, WB	00865.90a	THERMOPLASTIC, EXTRUDED, SURFACE, NON-PROFILED, WHITE	LF	440



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CONTRACTOR
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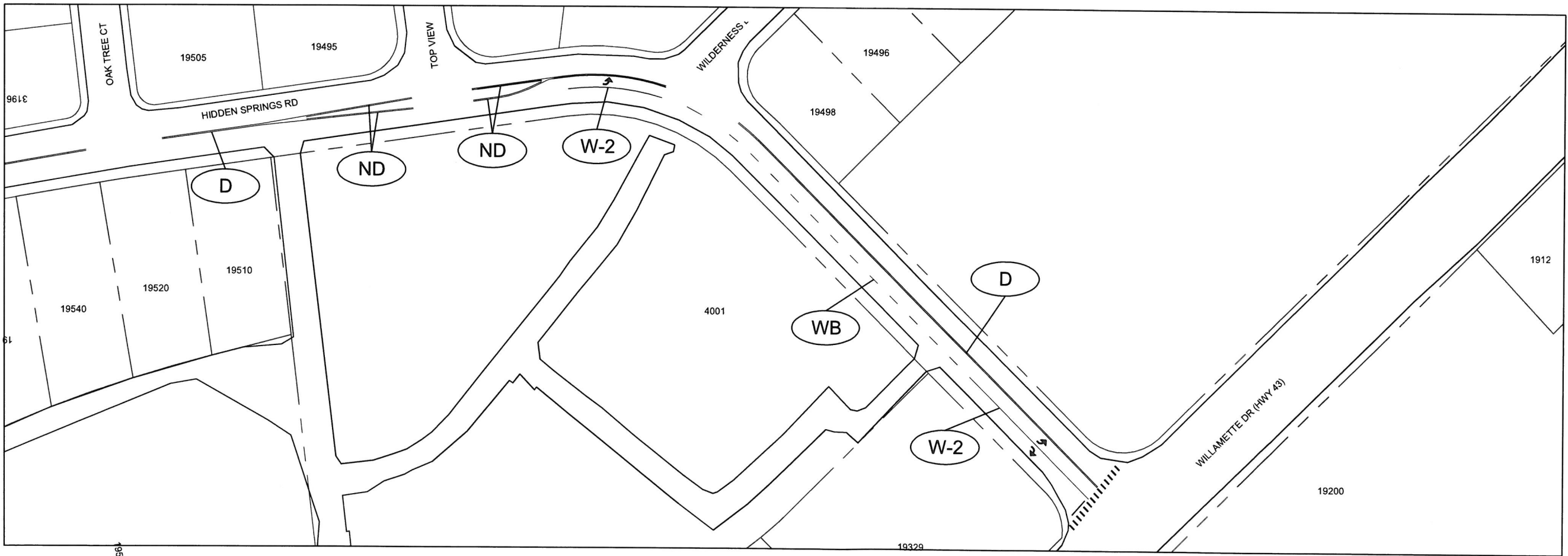
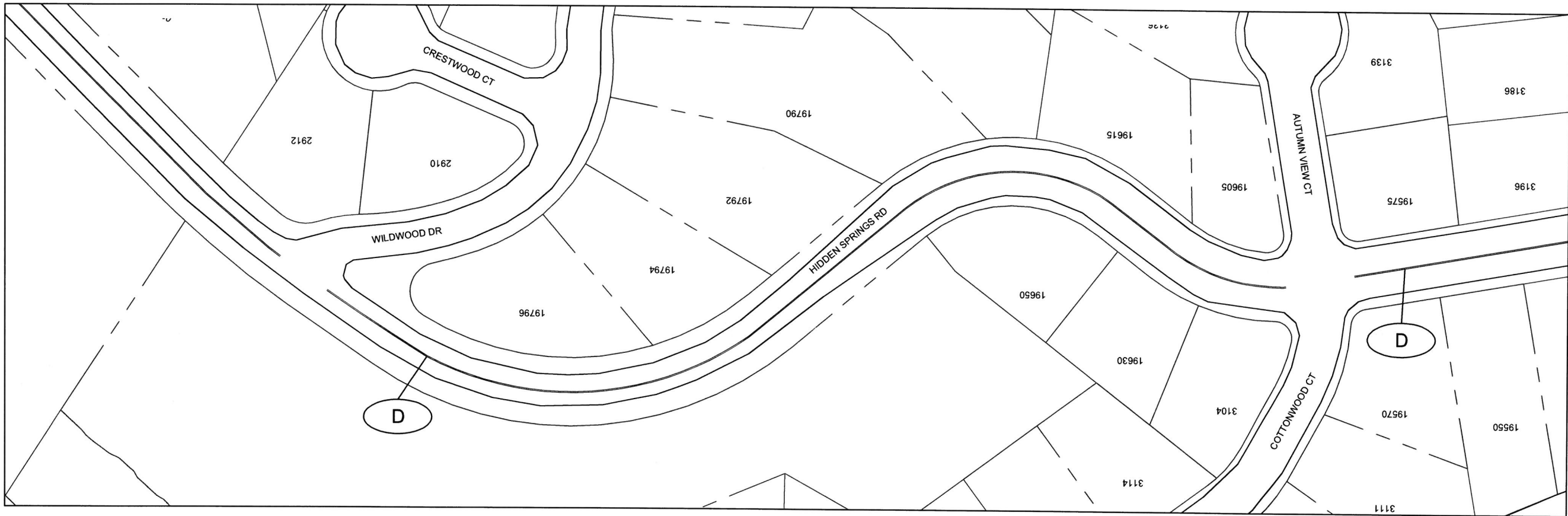
CITY OF WEST LINN
2016 ROAD PROGRAM
PAVEMENT MARKINGS
HIDDEN SPRINGS

PROJECT NO.: PW-16-01
DESIGNED BY: L CALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

COVER SHEET
SCALE: 1" = 100'

S2.0



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EXPIRES: 12/31/2017

CONTRACTOR

NAME: -N/A
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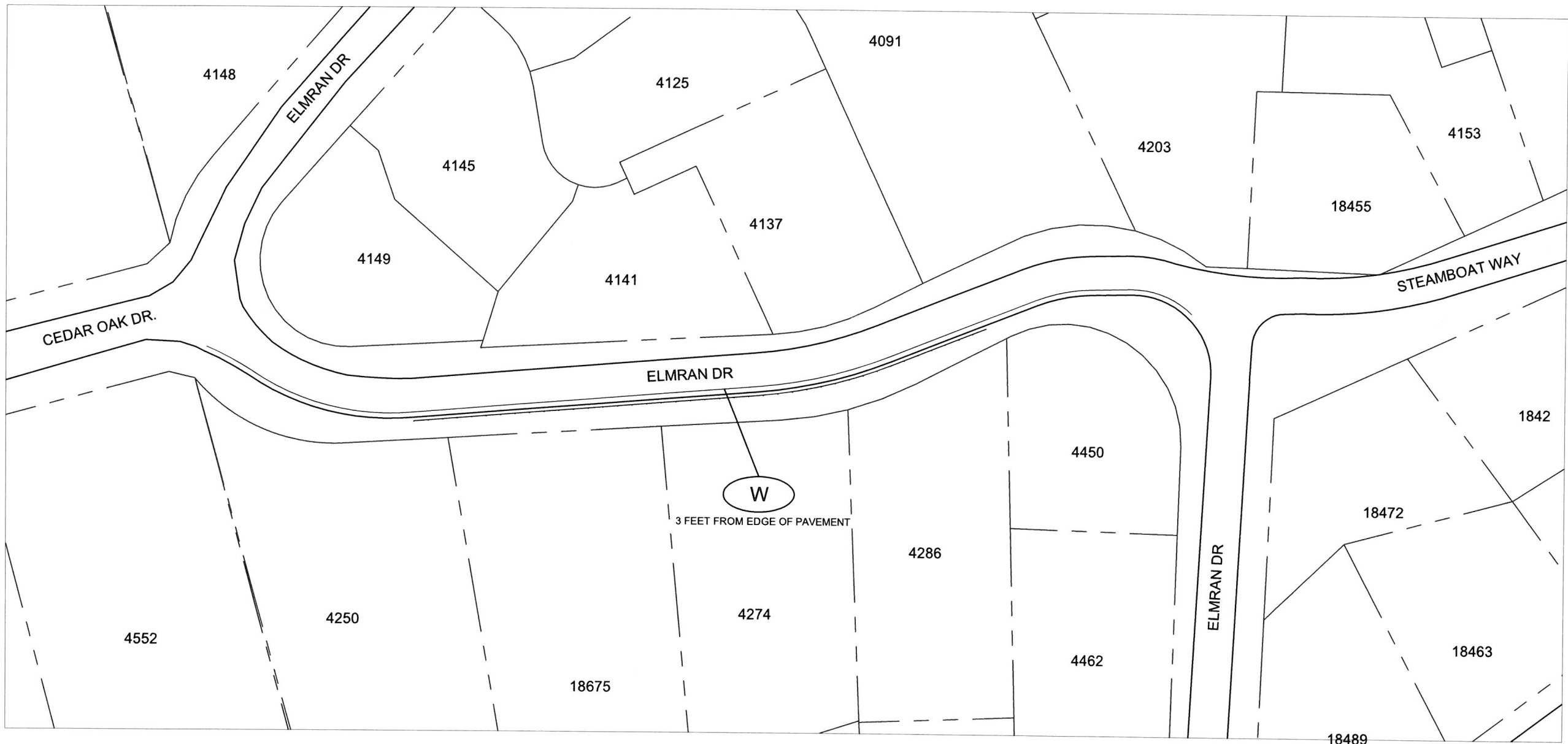
CITY OF WEST LINN
2016 ROAD PROGRAM
PAVEMENT MARKINGS
HIDDEN SPRINGS

PROJECT NO.: PW-16-01
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DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

COVER SHEET
SCALE: 1" = 100'

S2.1



SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	Elmrان Dr
W	00865.90a	THERMOPLASTIC, EXTRUDED, SURFACE, NON-PROFIED, WHITE	LF	580



CITY OF WEST LINN
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EXPIRES: 12/31/2017

CONTRACTOR

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

CITY OF WEST LINN
2016 ROAD PROGRAM

PAVEMENT MARKINGS
HIDDEN SPRINGS

PROJECT NO.: PW-16-01
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DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION

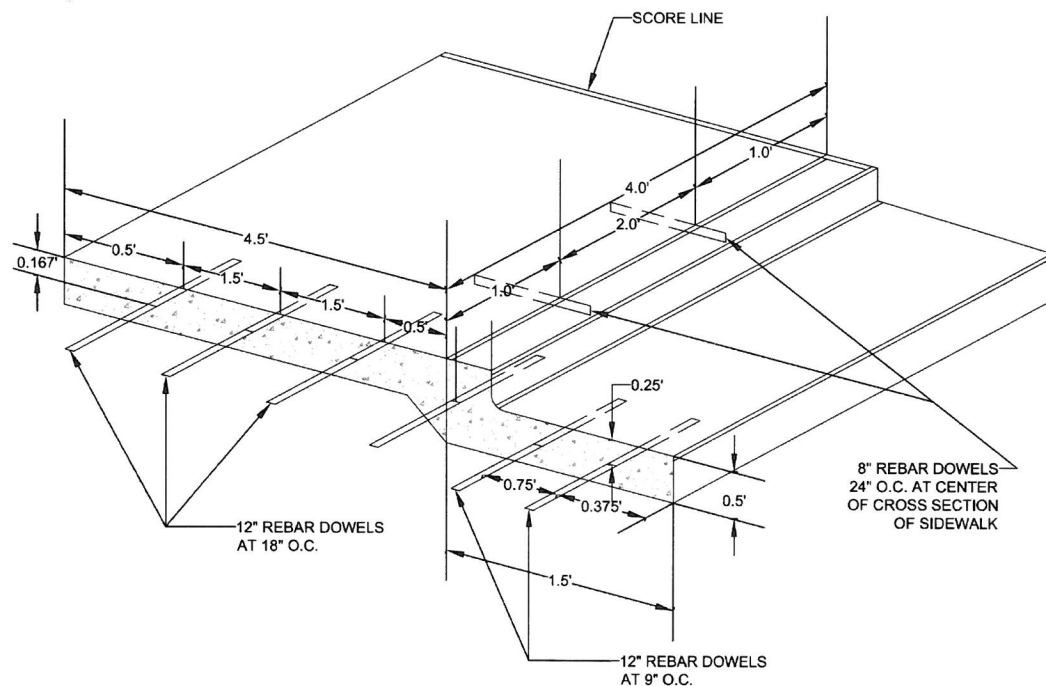
DATE DESCRIPTION

COVER SHEET

SCALE: 1" = 100'

S3.0

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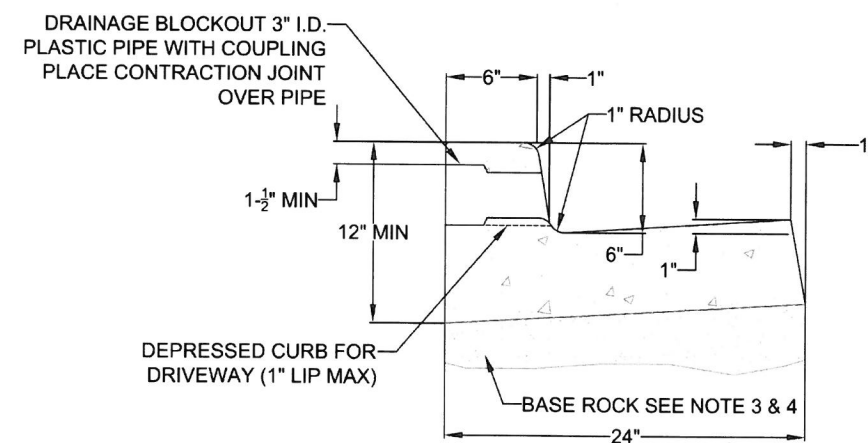
**CURB, GUTTER AND
SIDEWALK
DOWELING DETAIL**



CITY OF
**West
Linn**

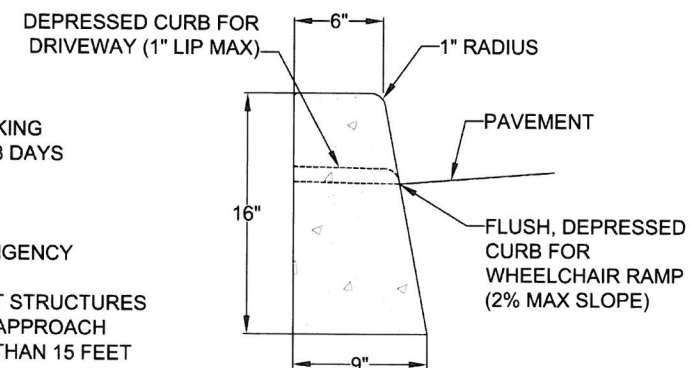
DATE: 2010
DRAWING NO. WL-511
FILE NO.

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FLUSH, DEPRESSED CURB FOR WHEELCHAIR
RAMP 2% MAX SLOPE

TYPICAL CURB AND GUTTER



TYPICAL STRAIGHT CURB

NOTE:

1. CONCRETE SHALL HAVE A BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS
2. CONTRACTION JOINTS:
A) TO BE PROVIDED:
-AT EACH POINT OF TANGENCY
-AT EACH COLD JOINT
-AT EACH SIDE OF INLET STRUCTURES
-AT BOTH SIDES OF AN APPROACH
B) SPACING TO BE NOT MORE THAN 15 FEET
C) THE DEPTH OF THE JOINT SHALL BE AT LEAST 1/3 OF THE THICKNESS OF CONCRETE
D) EXPANSION JOINTS SHALL NOT BE USED
3. 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
4. FULL DEPTH PREPARED ROCK SECTION SHALL EXTEND 1' HORIZONTALLY BEYOND BOTH SIDES OF CURB AND GUTTER
5. DRAINAGE BLOCK - 3" DIA. PLASTIC PIPE
A) 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
6. STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY LATERAL CROSSING

TYPICAL CURBS

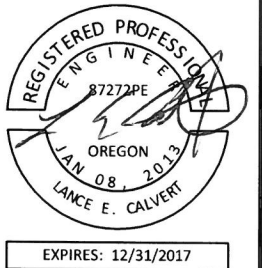


CITY OF
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Linn**

DATE: 2010
DRAWING NO. WL-501
FILE NO.



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PHONE: (503) 567-0331
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CONTRACTOR

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

**CITY OF WEST LINN
2016 ROAD PROGRAM**

WEST LINN STANDARD DETAILS

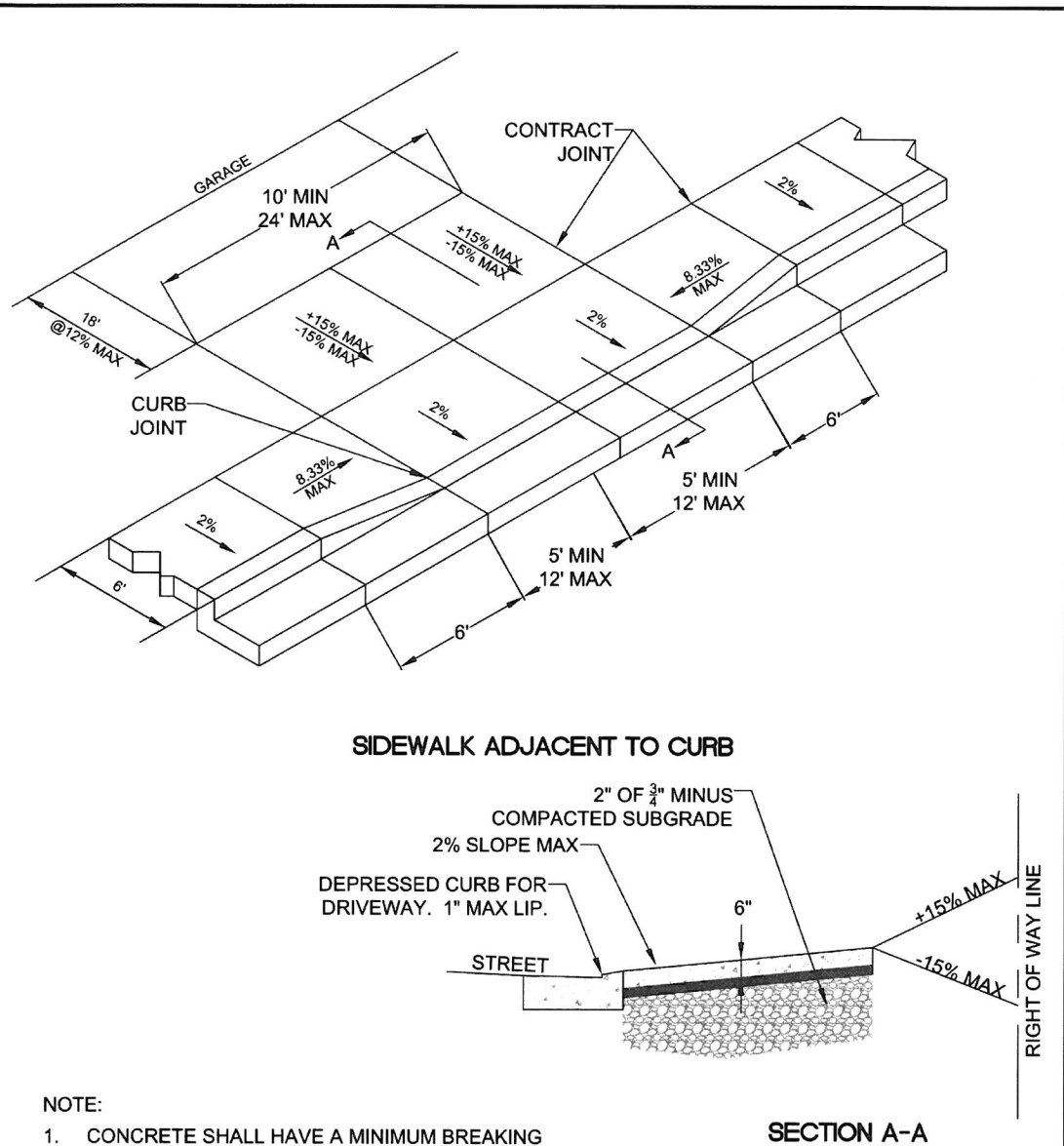
PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION
DATE DESCRIPTION

STANDARD DETAILS


SD

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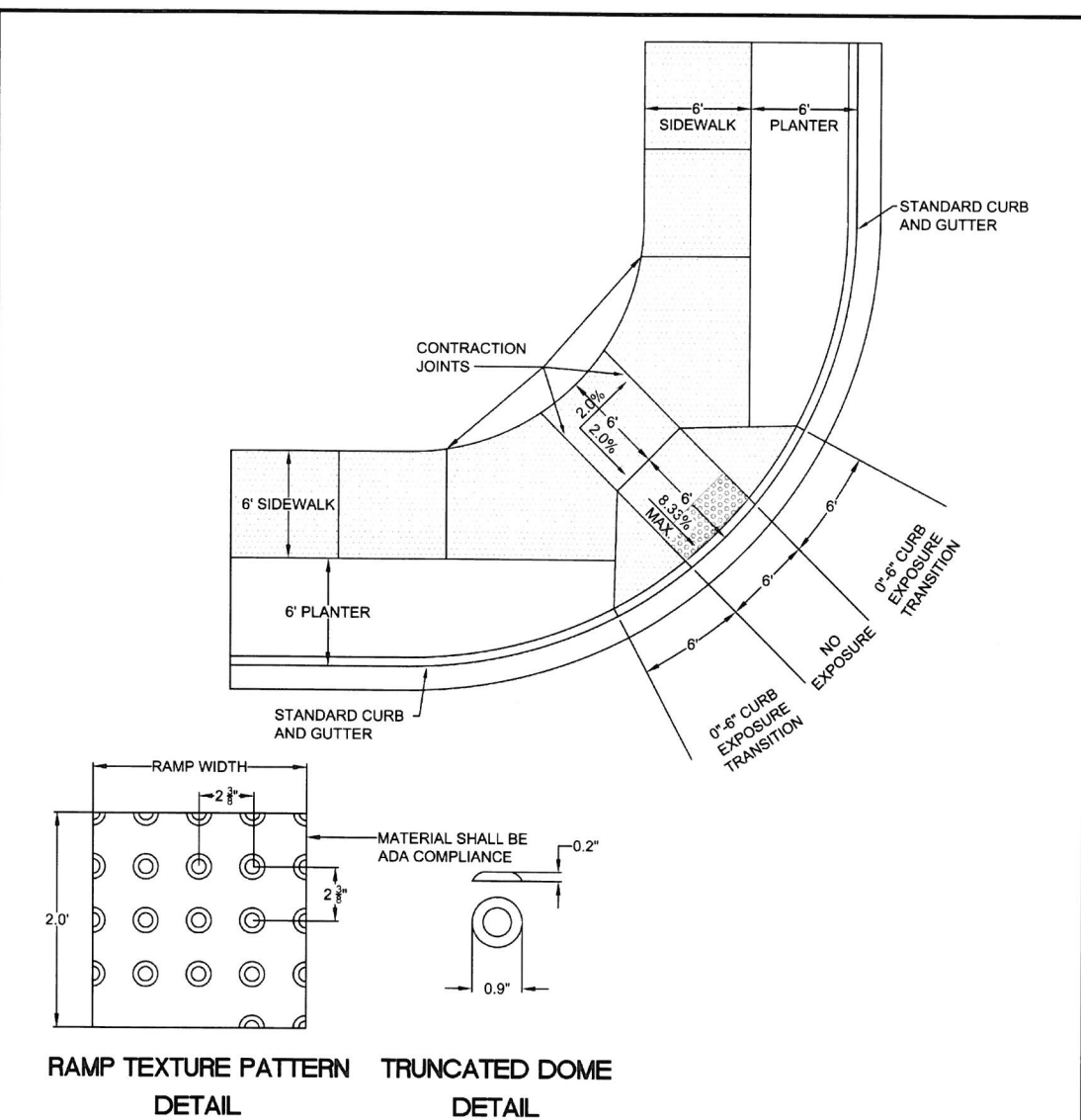
- NOTE:
1. CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS 6 SACK MIX
 2. CURB SHALL BE TROWELED JOINT WITH MIN. 1/2" RADIUS ALONG BACK OF CURB
 3. DRIVEWAY SHALL BE A MINIMUM 6" THICK
 4. DRIVEWAY CURB CUT SHALL COMPLY WITH THE CONDITIONS OF 5.0070, "WIDTH AND LOCATION OF CURB CUTS"
 5. FOR REPLACEMENT OF EXISITNG APPROACH:
A. MUST MEET CURRENT ADA REQUIREMENTS TO GREATEST DEGREE POSSIBLE
B. DAMAGED ROADWAY MUST BE SAWCUT AND REPAVED WITH CLASS C HOT MIX ASPHALT

RESIDENTIAL DRIVEWAY
WITH
SIDEWALK ADJACENT TO CURB

City of
West Linn


DATE:
2010
DRAWING NO.
WL-503B
FILE NO.

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- NOTE:
1. LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
 2. RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
 3. TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET.
 4. TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
 5. THE GUTTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
 6. FLARED SIDES ("WING") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (8.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS - I.E. IF MINIMUM 48" x 48" (FOR EXISTING SITES ONLY) LANDING IS NOT PROVIDED AT TOP OF RAMP).
 7. CONCRETE STRENGTH SHALL BE 3300 PSI.
 8. PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
 9. NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.
 10. WHEN EITHER OPPOSING CURB RAMP HAS AN EXISTING TWIN RAMP, USE DETAIL WL-507B.

SINGLE CURB RAMP
(ALLOWED WITH CITY
ENGINEER APPROVAL ONLY)

City of
West Linn

DATE:
2010
DRAWING NO.
WL-507A
FILE NO.



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22500 SALAMO ROAD
WEST LINN, OREGON 97068
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PHONE: (503) 567-0331
FAX: (503) 650-9041



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

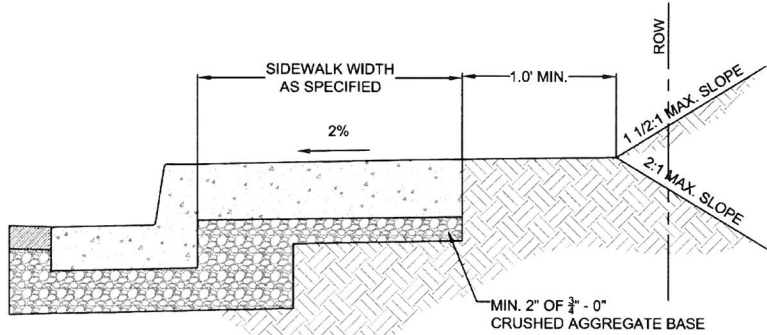
CITY OF WEST LINN
2016 ROAD PROGRAM
WEST LINN STANDARD DETAILS

PROJECT NO.: PW-16-01
DESIGNED BY: LCAVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

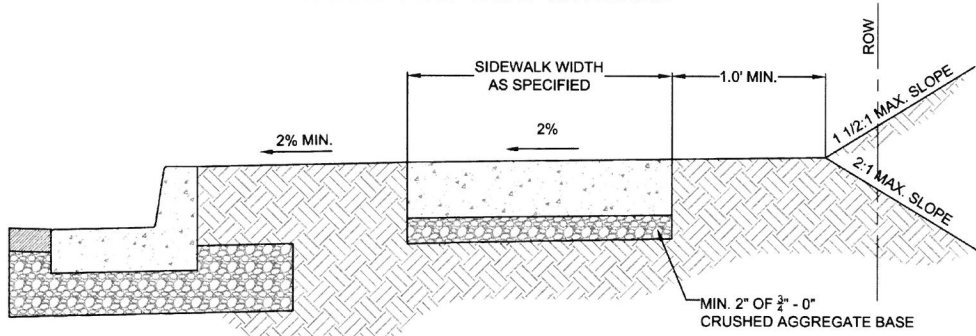
REVISION	
DATE	DESCRIPTION

SD

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TYPICAL CURB TIGHT SIDEWALK



SIDEWALK AWAY FROM CURB

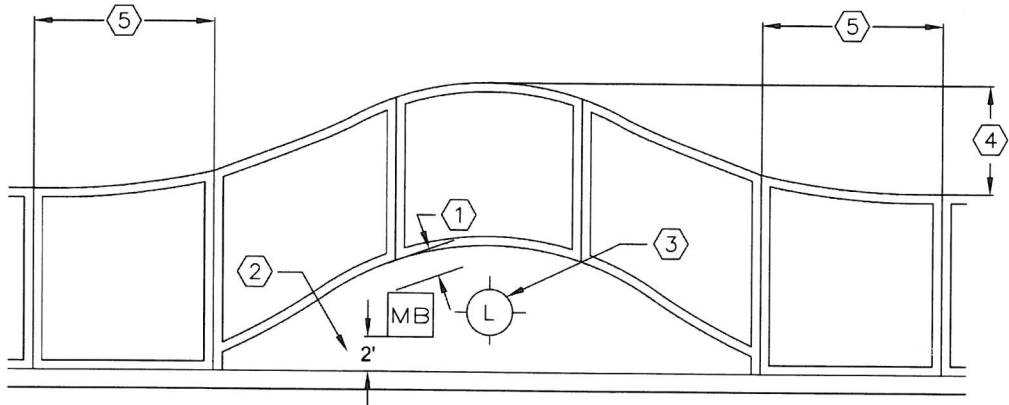
NOTE:

1. CONCRETE SHALL BE 3300 PSI AT 28 DAYS.
2. PANEL LENGTHS SHALL BE EQUAL TO THE SIDEWALK WIDTH, BUT MAY BE ADJUSTED WITH THE CITY ENGINEER'S APPROVAL.
3. CONTRACTION JOINTS (1/3RD OF THE THICKNESS OF CONCRETE) SHALL BE PLACED EVERY THIRD PANEL, WITH A MAX. SPACING OF 15 FEET. JOINTS SHALL ALSO BE PLACED AT THE SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, AND WHEELCHAIR RAMPS.
4. A CURING COMPOUND SHALL BE USED. WHITE REFLECTIVE SHEETING SHALL BE USED IN CASE OF RAIN.
5. FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS.
6. THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 6" IF THE SIDEWALK IS INTENDED AS A PORTION OF THE DRIVEWAY. OTHERWISE, THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 4".
7. DRAIN BLOCKOUTS IN THE CURB SHALL BE EXTENDED TO THE BACK OF THE SIDEWALK WITH A 3" DIAMETER PLASTIC PIPE AT A 2% SLOPE. A CONTRACTION JOINT SHALL BE PLACED OVER THE PIPE.

CONCRETE SIDEWALK
CROSS SECTION



DATE: 2010
DRAWING NO. WL-508
FILE NO.



SPECIFICATIONS:

- 1 MIN. 3" CLEARANCE BETWEEN FACE OF SIDEWALK & CLOSEST POINT ON BACK OF MAILBOX.
- 2 CENTER OF MAILBOX SHALL BE 2' FROM FACE OF CURB.
- 3 LIGHT POLES & FIRE HYDRANTS ARE TO BE CENTERED IN ISLAND.
- 4 2' FOR FIRE HYDRANTS & LIGHTPOLES
3' FOR MAILBOXES
- 5 THE REVERSE CURVE SHALL EXTEND 5' BEYOND THE RE-ROUTED AREA.

NOTE:

1. SIDEWALKS TO BE RE-ROUTED AROUND ALL LIGHT POLES, MAILBOXES, & FIRE HYDRANTS THAT EXIST IN THE SIDEWALK AREA.
2. MAILBOXES SHALL NOT BE INSTALLED ADJACENT TO FIRE HYDRANTS.
3. SIDEWALKS SHALL NOT BE RE-ROUTED IF EXISTING METER BOXES, UTILITY POLES, ETC., WILL BE IN RE-ROUTED SIDEWALK. A MINIMUM UNOBSTRUCTED SIDEWALK WIDTH MUST BE MAINTAINED PER ADA STANDARDS.
4. IF THE SIDEWALK IS IN PLACE PRIOR TO THE INSTALLATION OF THE LIGHT POLE, MAILBOX, OR FIRE HYDRANT, THEN THE SIDEWALK SHALL BE REMOVED AND RE-ROUTED.

CONCRETE SIDEWALK
CLEARANCES
FOR CURB TIGHT SIDEWALKS



DATE: 2010
DRAWING NO. WL-509
FILE NO.



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PHONE: (503) 567-0331
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CONTRACTOR

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

CITY OF WEST LINN
2016 ROAD PROGRAM

WEST LINN STANDARD DETAILS

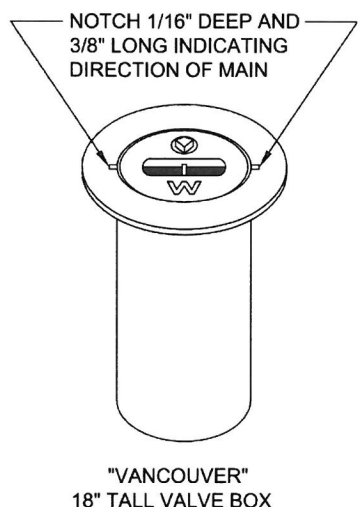
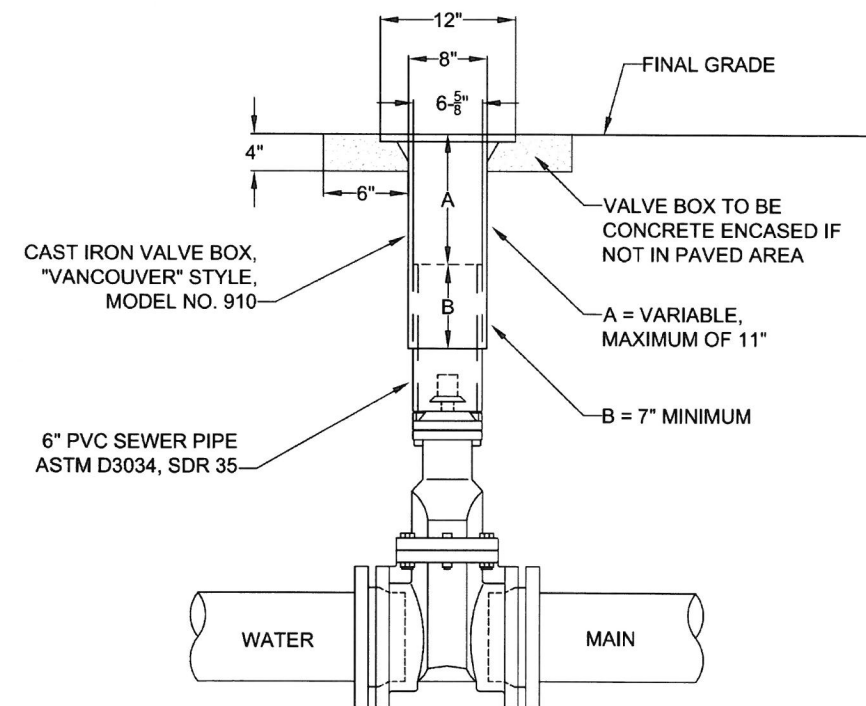
PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION
DATE DESCRIPTION

STANDARD DETAILS


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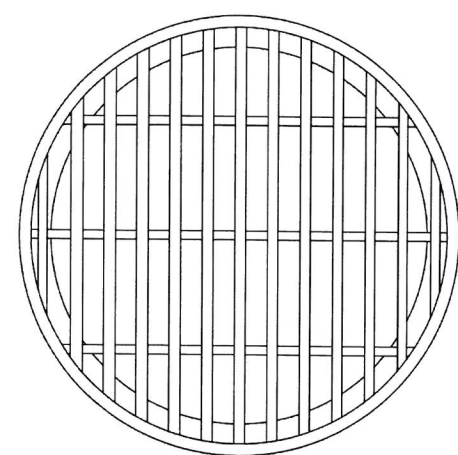
- NOTE:
1. VALVE BOXES SHALL BE CENTERED DIRECTLY OVER THE VALVE NUT IN A VERTICAL POSITION.
 2. VALVE BOX TOP SHALL BE ADJUSTED TO MEET FINISHED GRADE.
 3. PVC SHALL BE ONE CONTINUOUS PIECE-NO BELLS OR COUPLERS.
 4. ON VALVES 8" AND LARGER, PVC SHALL BE NOTCHED OVER VALVE PACKING BOLTS SO PVC SITS ON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

STANDARD VALVE BOX
DETAIL

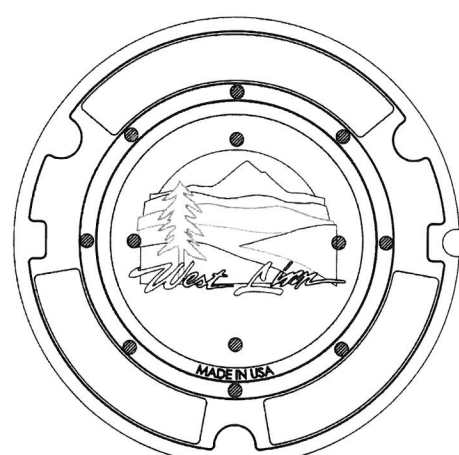
City of
**West
Linn**

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

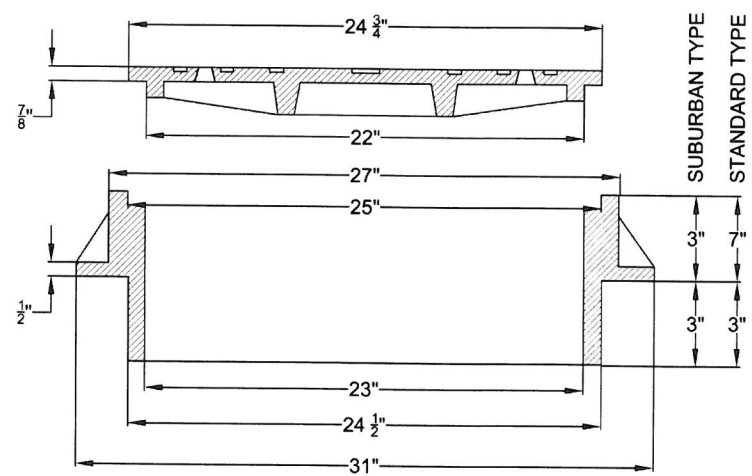
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GRATE




STORM




- NOTE:
1. USE SUBURBAN TYPE ONLY IN NON-TRAFFIC AREAS, AND ONLY WITH APPROVAL BY THE CITY.
 2. COVER AND FRAME SHALL BE GRAY CAST IRON ASTM A-48 CLASS 30.
 3. COVER AND FRAME TO BE MACHINED TO A TRUE BEARING ALL AROUND.
 4. NOTCH LID FOR LIFTING HOOK.
 5. OPEN GRATES REQUIRE APPROVAL BY CITY, AND MUST BE BICYCLE SAFE IF USED IN TRAFFIC AREAS.

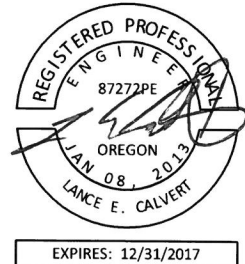
MANHOLE
FRAME AND COVER

City of
**West
Linn**

DATE:
2010
DRAWING NO.
WL-605
FILE NO.

City of
**West
Linn**

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22500 SALAMO ROAD
WEST LINN, OREGON 97068
WWW.WESTLINNOREGON.GOV
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CONTRACTOR
NAME: -N/A
ADDRESS: -N/A
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CITY OF WEST LINN
2016 ROAD PROGRAM

WEST LINN STANDARD DETAILS

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION
DATE DESCRIPTION

STANDARD DETAILS

SD

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TOP VIEW

NOTE:

1. CONCRETE STRENGTH SHALL BE 3300 PSI.
2. PRECAST BASE WALLS SHALL BE A MINIMUM 4" THICK. CAST-IN-PLACE BASE WALLS SHALL BE 6" THICK.

SECTION A-A

SECTION B-B

TYPE G1 CATCH BASIN WITH SUMP

NOTE:

PRECAST TOP SLAB SHOWN WITH GUTTER TRANSITION FLARE IF THE TOP SLAB IS CAST-IN-PLACE, NO FLARE IS REQUIRED IN THE TRANSITION SECTION: MATCH THE TOP FRONT EDGE OF THE FRAME AND THE TOP FRONT EDGE OF THE CAST-IN-PLACE TOP SLAB TO THE NORMAL PAVEMENT GRADE.

DATE: 2010
DRAWING NO. WL-602A
FILE NO.

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PLAN

PLAN

TYPE	W	I.W
STANDARD	1'-9"	1'-8 1/4"

TYPE	DIA. PIPE	W	I.W
STANDARD	10"-12"	1'-10 3/4"	1'-9 3/8"

SECTION A-A

SECTION B-B

NOTE:

USE VERTICAL BEADS IN CORNERS, FILLET WELD JOINT ON BOTTOM OF FRAME. GRATE MUST REST FLAT ON FRAME SURFACE.

DATE: 2010
DRAWING NO. WL-602B
FILE NO.

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PHONE: (503) 567-0331
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REGISTERED PROFESSIONAL ENGINEER
87272PE
OREGON
JAN 08, 2013
LANCE E. CALVERT
EXPIRES: 12/31/2017

CONTRACTOR

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

CITY OF WEST LINN
2016 ROAD PROGRAM
WEST LINN STANDARD DETAILS

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REVISION

DATE	DESCRIPTION

STANDARD DETAILS

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entrapment and to help motorists select the appropriate lane before reaching the end of the line of waiting vehicles.

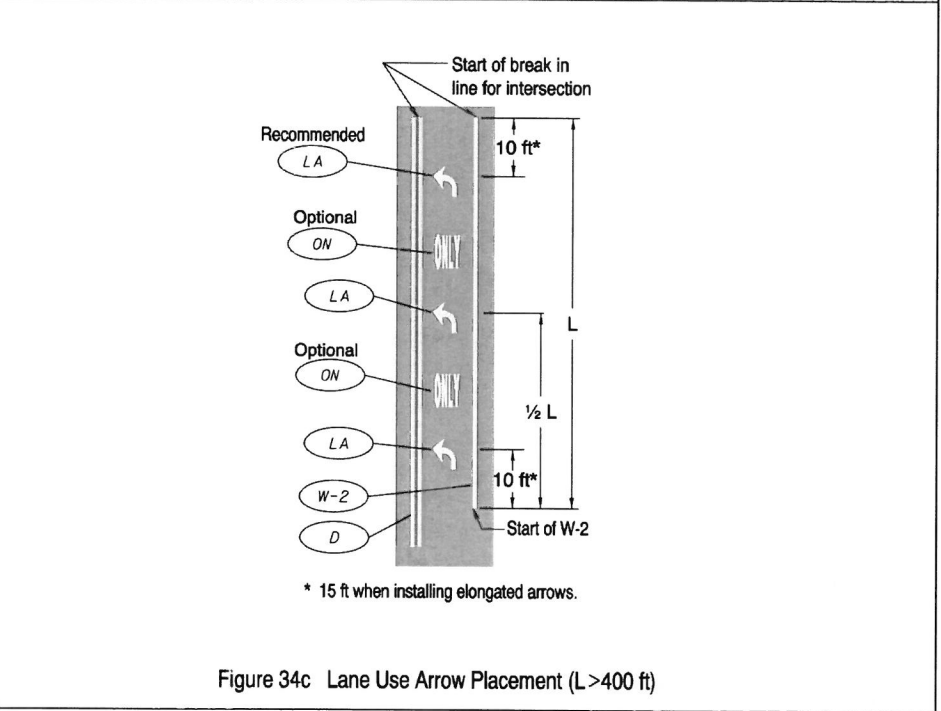
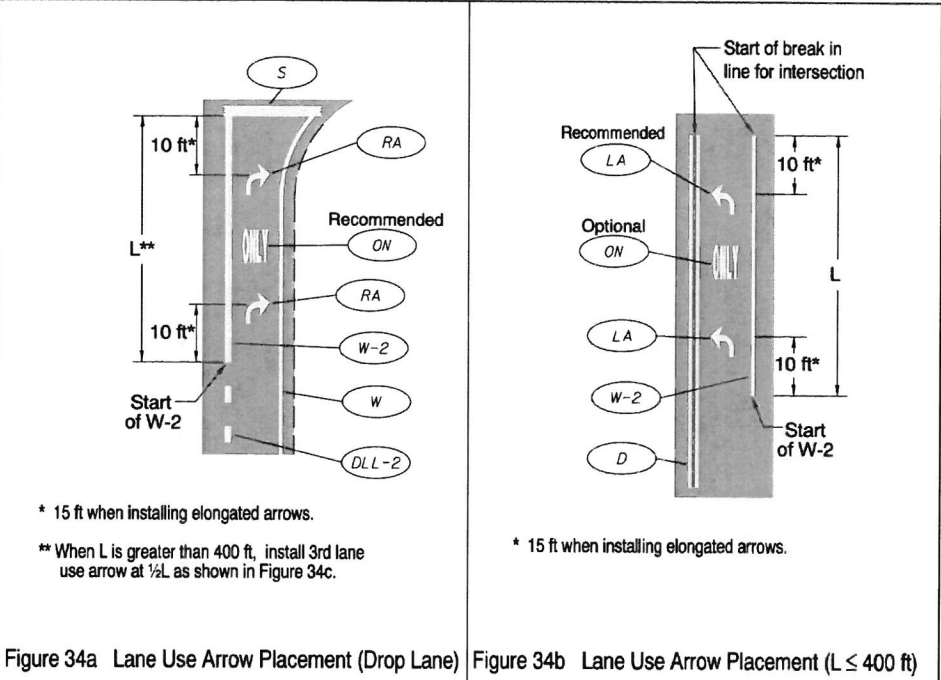
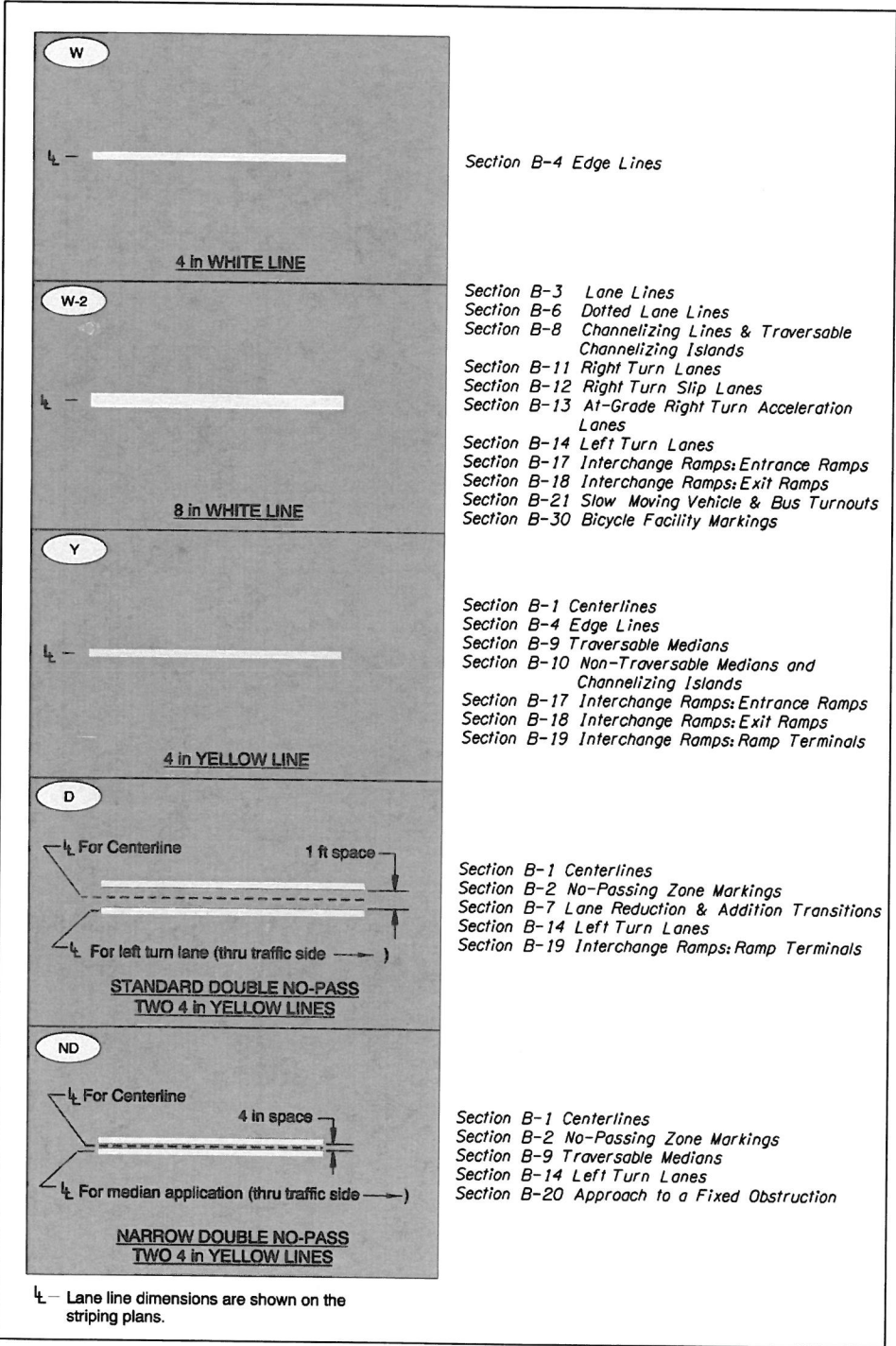


Figure 34c Lane Use Arrow Placement ($L > 400$ ft)

Traffic Line Manual- 2011 Edition
Revision 1, June 2012

Appendix D: Bubble Note Index



Traffic Line Manual- 2011 Edition
Revision 1, June 2012



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



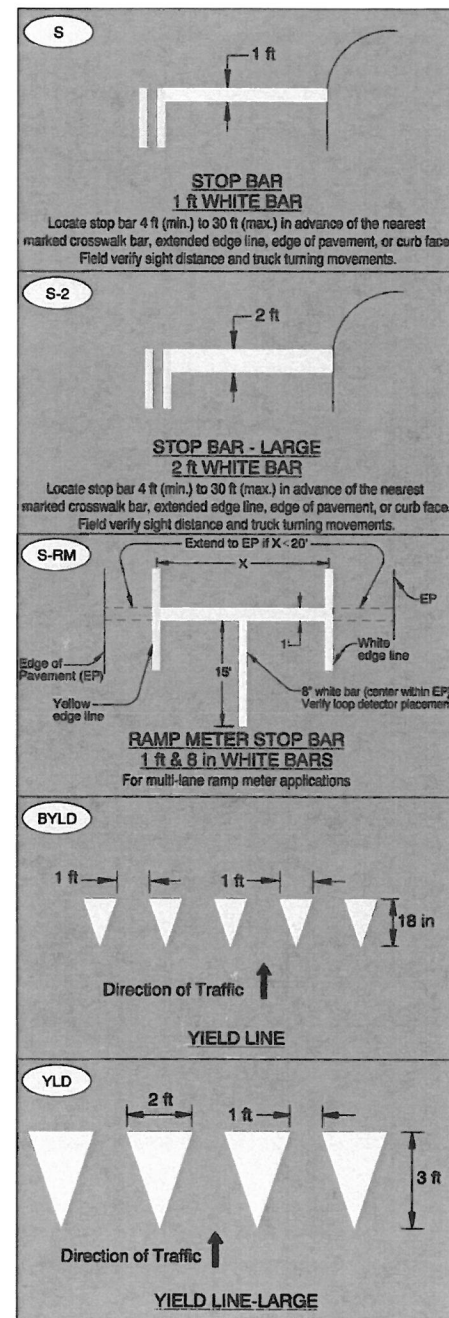
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ADDRESS: -N/A
PHONE: -N/A
FAX: -N/A

CITY OF WEST LINN
2016 ROAD PROGRAM
WEST LINN STANDARD DETAILS

PROJECT NO.: PW-16-01
DESIGNED BY: LCAVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

REVISION
DATE DESCRIPTION

STANDARD DETAILS
SD



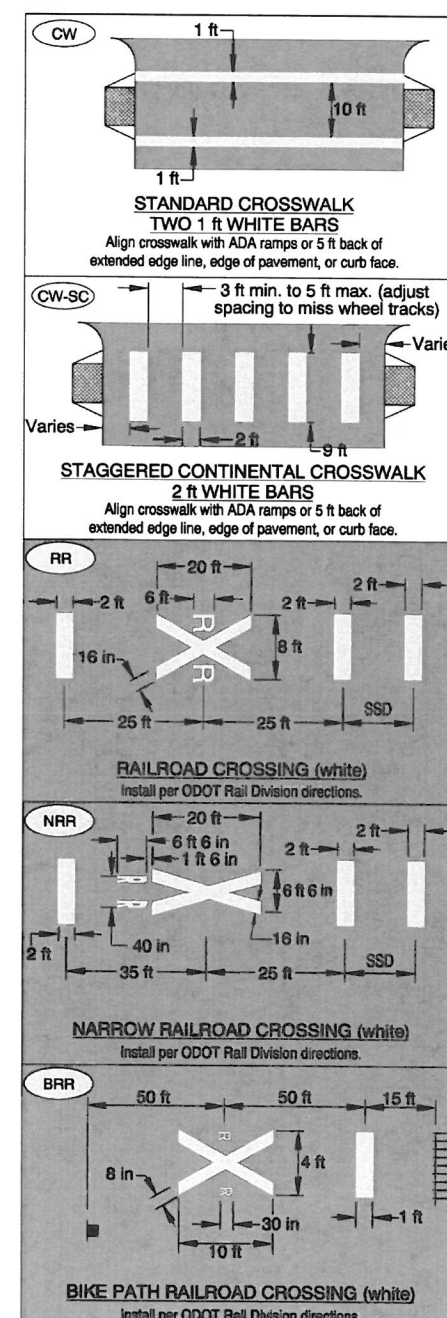
Section B-22 Stop Bars

Section B-22 Stop Bars
 Section B-24 Crosswalk Markings
 Section B-28 Railroad Crossing Markings

Section B-22 Stop Bars

Section B-16 Roundabouts
 Section B-23 Yield Lines

Section B-23 Yield Lines



Section B-24 Crosswalk Markings

Section B-11 Right Turn Lanes
 Section B-16 Roundabouts
 Section B-24 Crosswalk Markings

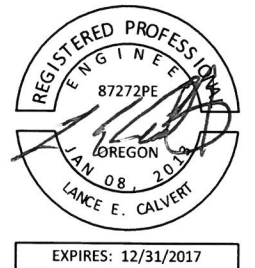
Section B-28 Railroad Crossing Markings

Section B-28 Railroad Crossing Markings

Section B-28 Railroad Crossing Markings



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 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

CITY OF WEST LINN
 2016 ROAD PROGRAM

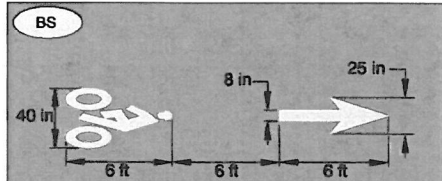
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 DESIGNED BY: LCALVERT
 DRAWN BY: NBRENNAN
 CHECKED BY: ELAIS
 DATE: 5/20/2016

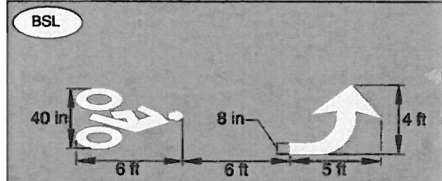
REVISION
 DATE DESCRIPTION

STANDARD DETAILS

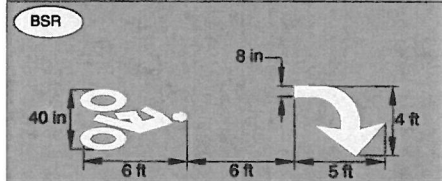
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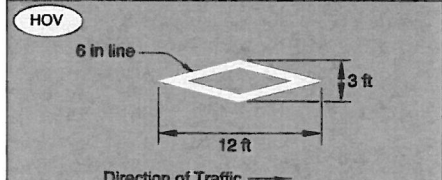
Section B-30 Bicycle Facility Markings



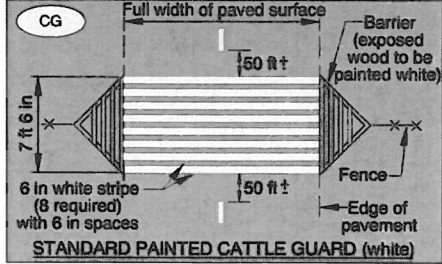
Section B-30 Bicycle Facility Markings



Section B-30 Bicycle Facility Markings



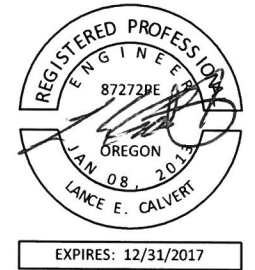
Section B-29 Preferential Lane Markings



Section B-31 Cattle Guard Markings



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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

CITY OF WEST LINN
2016 ROAD PROGRAM
WEST LINN STANDARD DETAILS

PROJECT NO.: PW-16-01
DESIGNED BY: LCALVERT
DRAWN BY: NBRENNAN
CHECKED BY: ELAIS
DATE: 5/20/2016

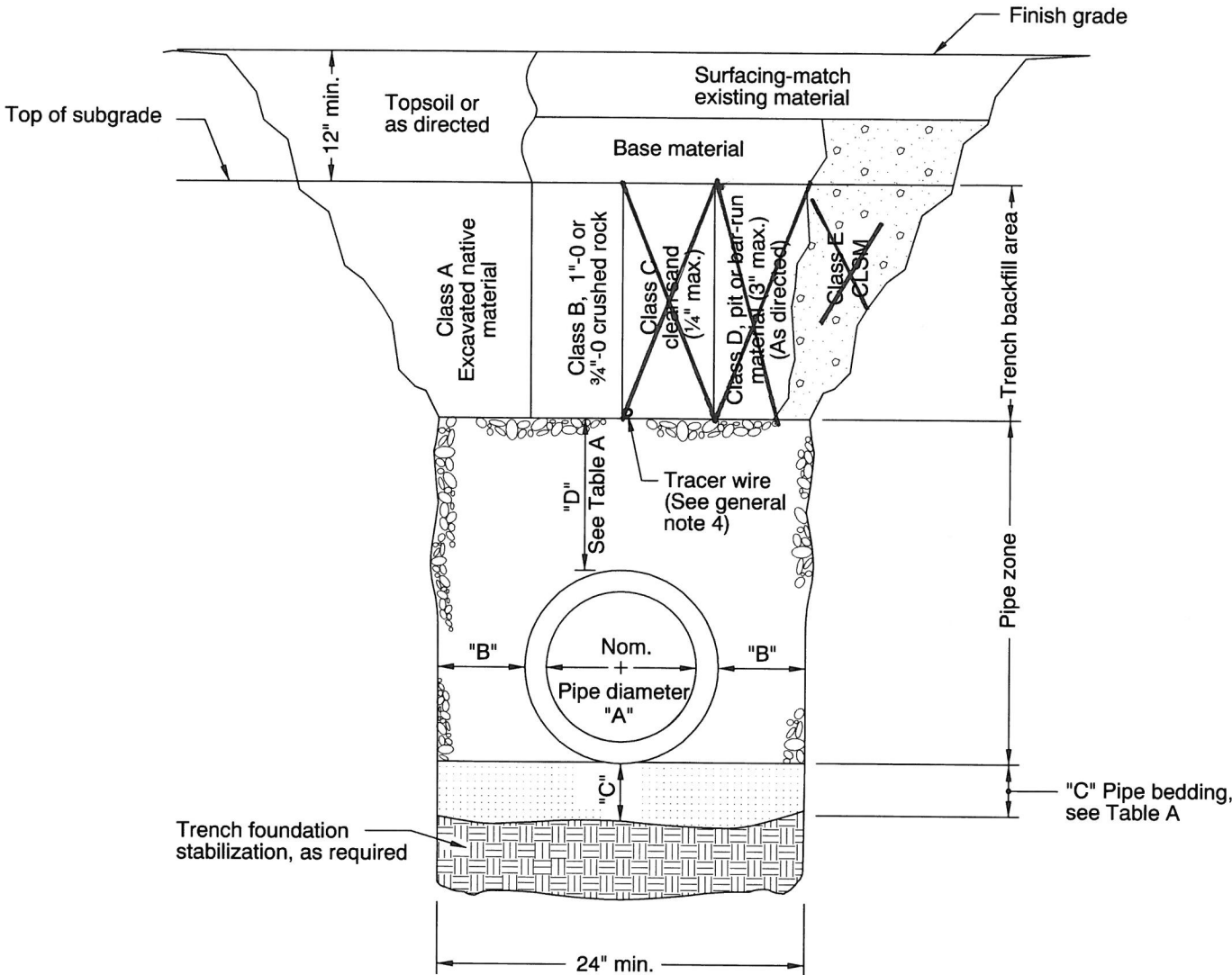
REVISION	
DATE	DESCRIPTION

STANDARD DETAILS
SD

TABLE A

"A" (in)	"B" (in)	"C" (in)	"D" (in)
4	10	4	8
6	10	4	8
8	10	6	10
10	10	6	10
12	12	6	10
15	12	6	10
18	16	6	12
21	16	6	12
24	18	6	12
30	18	6	12
36	24	6	14
42	24	6	14
48	24	6	14
54	24	6	14
60	24	6	14
66	24	6	14
72	24	6	14

For pipes over 72" diameter,
see general note 3.

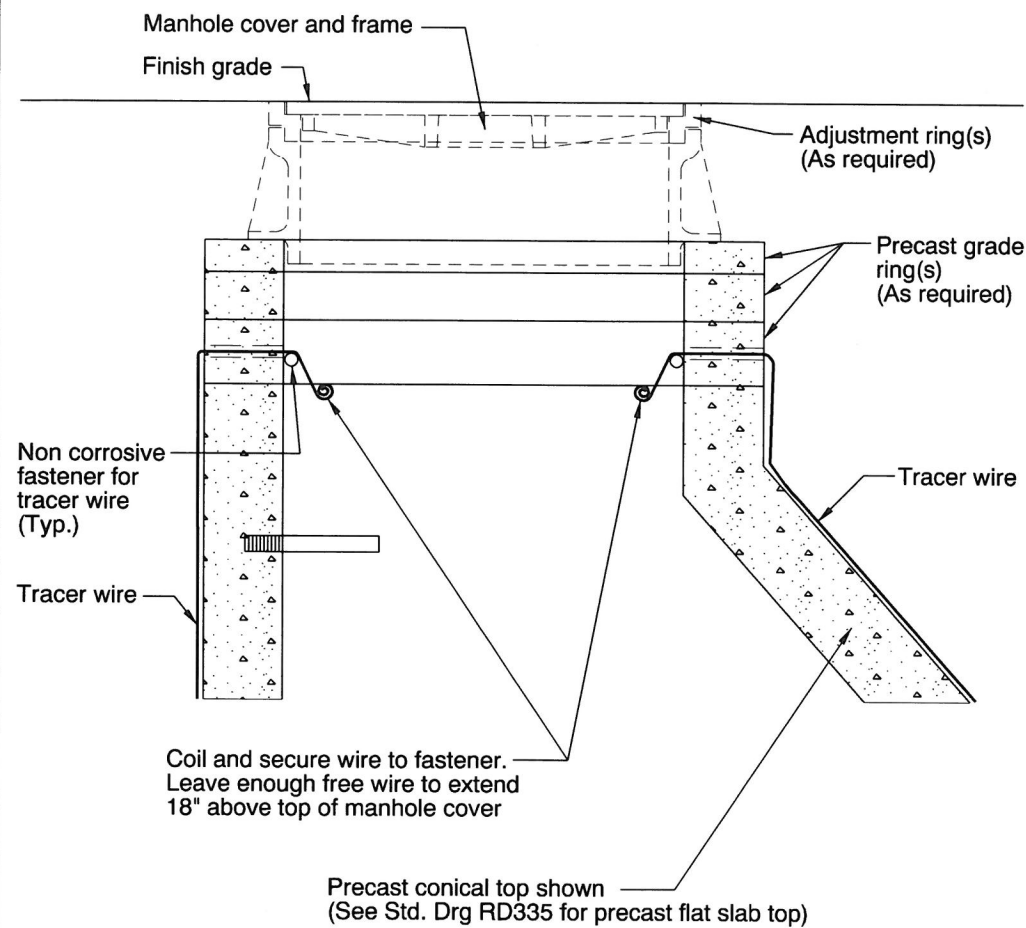


MULTIPLE INSTALLATIONS	
DIAMETER	MIN. SPACE BETWEEN PIPES
Up to 48"	24"
48" to 72"	One half (1/2) dia. of pipe

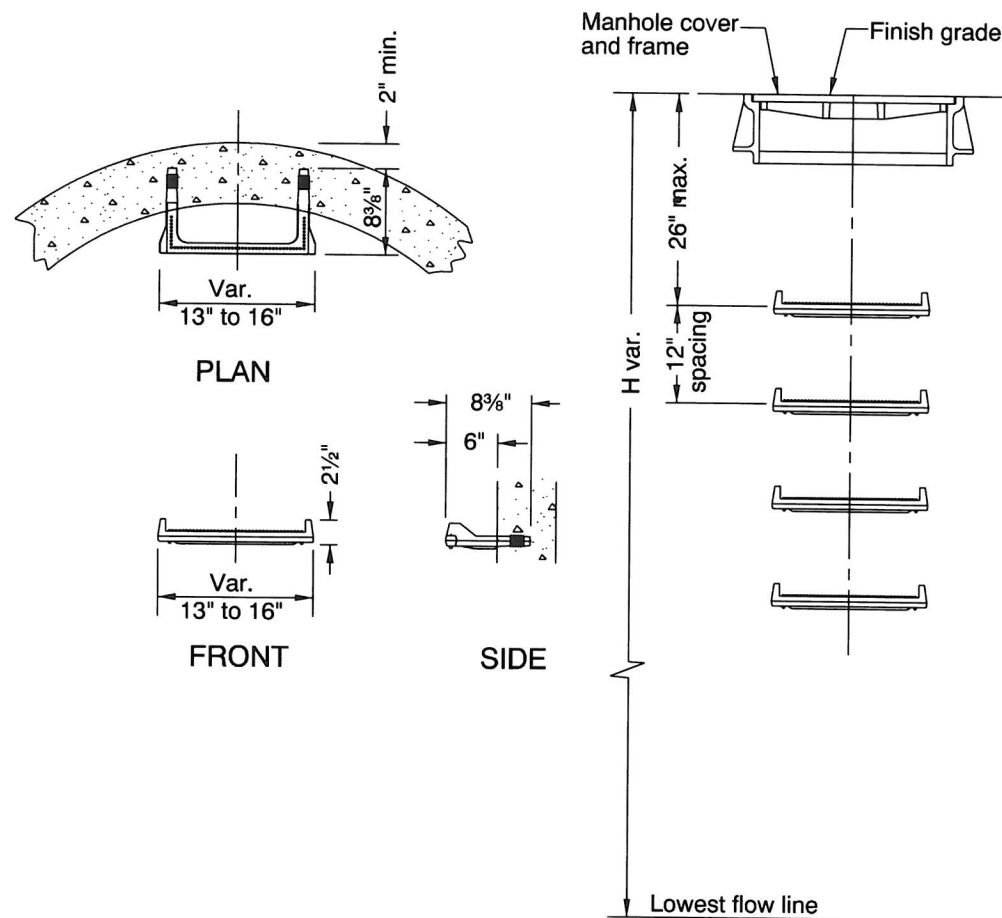
- GENERAL NOTES FOR ALL DETAILS:
1. Surfacing of paved areas shall comply with street cut Std. Drg. RD302.
 2. For pipe installation in embankment areas where the trench method will not be used and the pipe is ≥ 36 " diameter, increase dimension "B" to nominal pipe diameter.
 3. Pipes over 72" diameter are structures, and are not applicable to this drawing.
 4. See Std. Drg. RD336 for tracer wire details (When required).

CALC. BOOK NO. <u> N/A </u>	BASELINE REPORT DATE <u> 14-JUL-2014 </u>									
<i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.</i>	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications									
	OREGON STANDARD DRAWINGS									
	TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS									
	2015									
	<table><tr><th>DATE</th><th>REVISION DESCRIPTION</th></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>	DATE	REVISION DESCRIPTION							
DATE	REVISION DESCRIPTION									

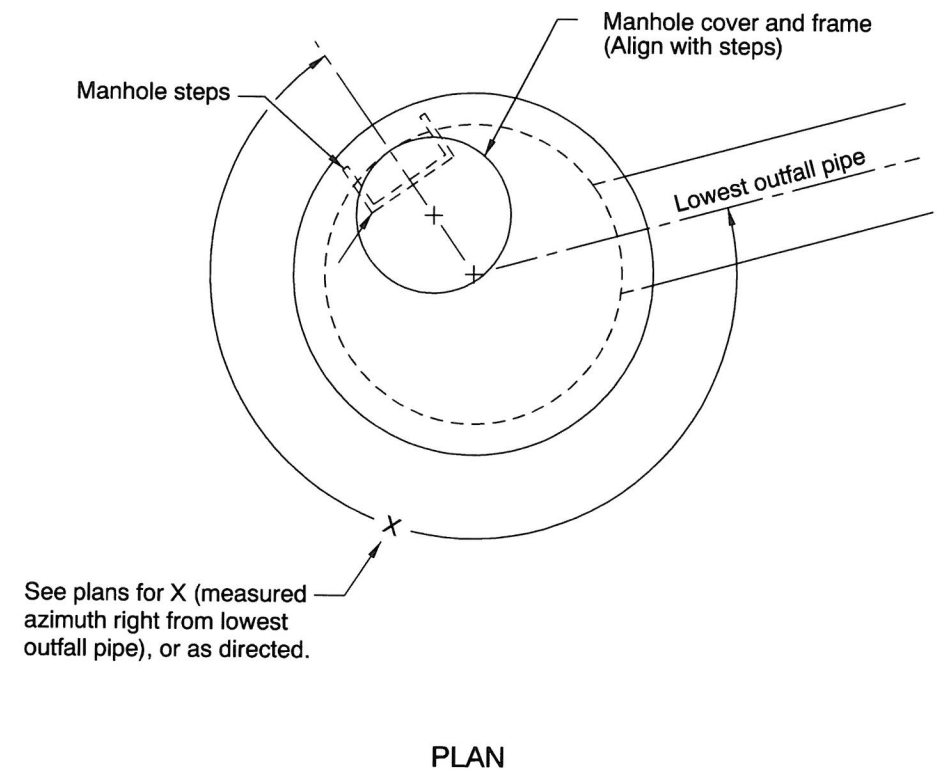
rd336.dgn 21-JUL-2015



DETAIL "A"
TRACER WIRE
(See general note 6)



DETAIL "B"
MANHOLE STEPS
(See general note 7)



DETAIL "C"
PRECAST CONICAL TOP
OR
PRECAST FLAT SLAB TOP
AND MANHOLE STEPS ORIENTATION
(See general note 7)

GENERAL NOTES FOR ALL DETAILS:

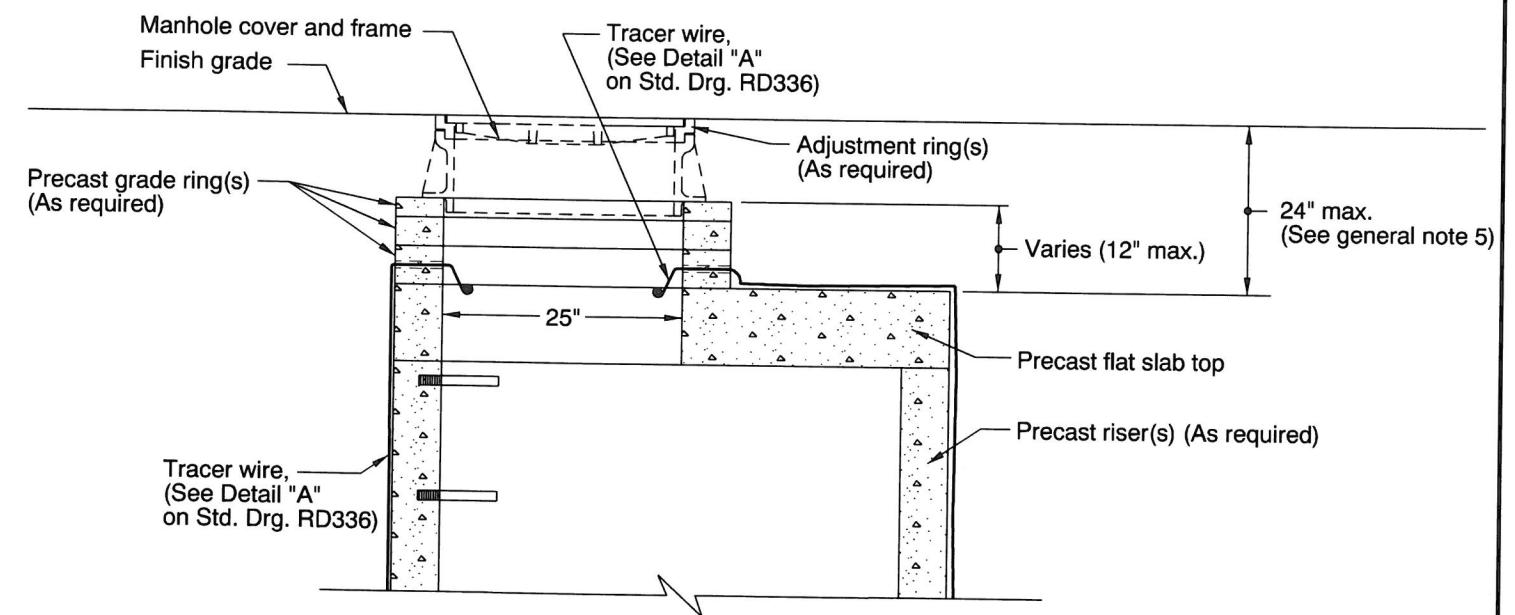
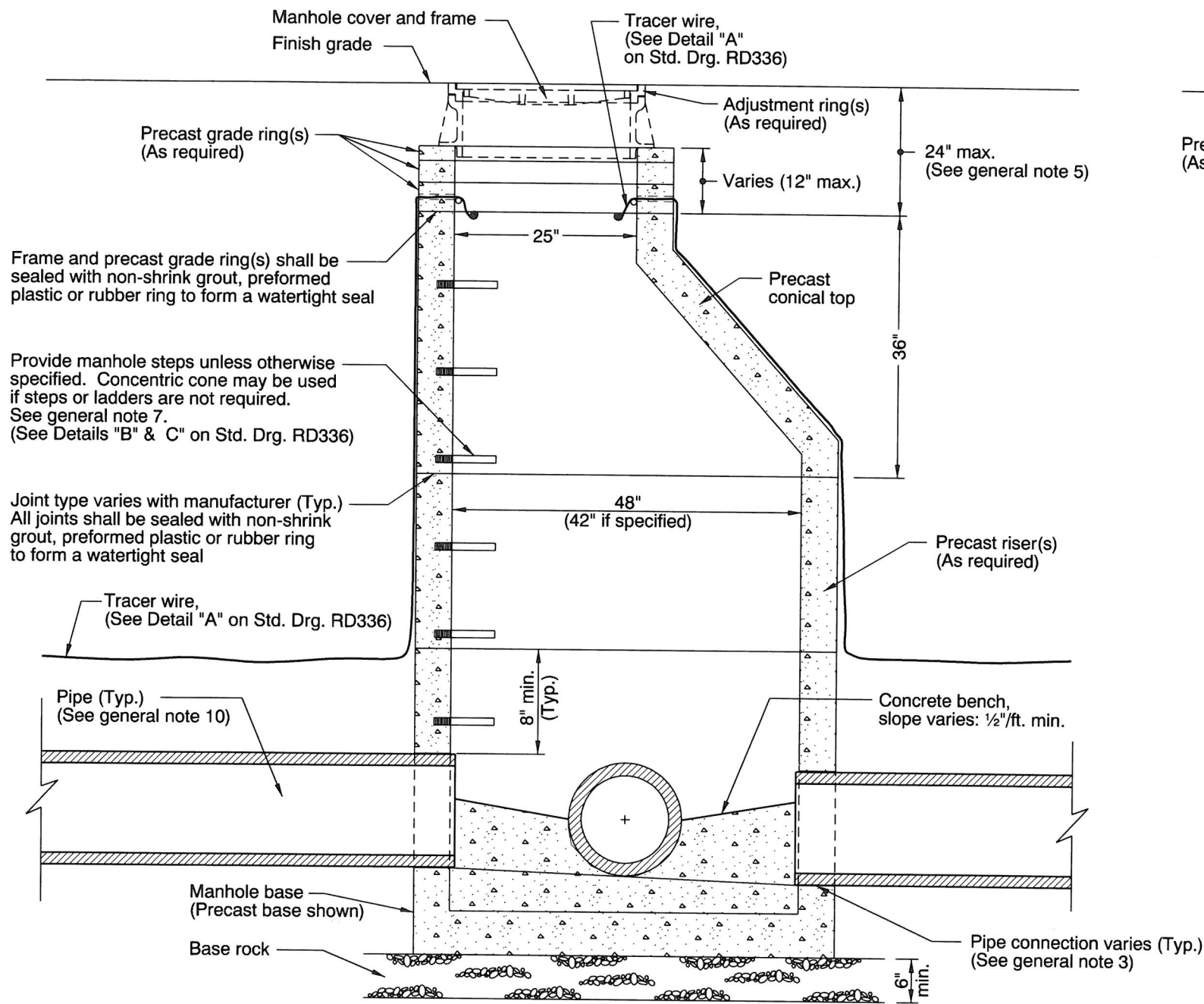
1. All precast products shall conform to requirements of ASTM C478.
2. Standard precast manhole section diameter shall be 48". Use 42" if specified by the Engineer.
3. See Std. Drg. RD345 for pipe to manhole connections.
4. See Std. Drg. RD344 for manhole base section.
5. Adjust 24" maximum.
6. All connecting pipes shall have a tracer wire, or approved alternate.
Place tracer wire directly over pipe centerline and on top of the pipe zone material.

7. Steps and ladders shall conform to requirements of ASTM C478.
See Std. Drg. RD337 for manhole safety ladder.
When H=42" or less omit steps.
See Detail "C" for alignment of steps, and manhole cover and frame.
8. See Std. Drg. RD335 for details not shown.
9. See Std. Drg. RD356 for manhole covers and frames, manhole adjustment rings, etc.
10. Max. pipe diameter varies with pipe material.
11. See Std. Drg. RD342 for shallow manholes.
12. See project plans for details not shown.

CALC. BOOK NO. <u> N/A </u>		BASELINE REPORT DATE <u> 21-JUL-2015 </u>	
<i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.</i>		NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
		OREGON STANDARD DRAWINGS	
		STANDARD MANHOLE DETAILS	
		2015	
		DATE	REVISION DESCRIPTION
		07-2015	REVISED DETAILS & NOTES

RD336

14-JUL-2014
rd338.dgn



GENERAL NOTES FOR ALL DETAILS:

1. All precast products shall conform to requirements of ASTM C478.
2. Standard precast manhole section diameter shall be 48". Use 42" if specified by the Engineer.
3. See Std. Drg. RD345 for pipe to manhole connections.
4. See Std. Drg. RD344 for manhole base section.
5. Adjust 24" maximum.
6. All connecting pipes shall have a tracer wire, or approved alternate.
7. See Std. Drg. RD337 for manhole safety ladder.
8. See Std. Drg. RD336 for details not shown.
9. See Std. Drg. RD356 for manhole covers and frames, manhole adjustment rings, etc.
10. Max. pipe diameter varies with pipe material.
11. See Std. Drg. RD342 for shallow manholes.
12. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
13. This detail limited to interior drop of 24".
See Std. Drgs. RD350 or RD352 for drop manhole details for drops in excess of 24".

CALC. BOOK NO. N/A	BASELINE REPORT DATE 14-JUL-2014
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
OREGON STANDARD DRAWINGS	
STANDARD SANITARY SEWER MANHOLE	
2015	
DATE	REVISION DESCRIPTION

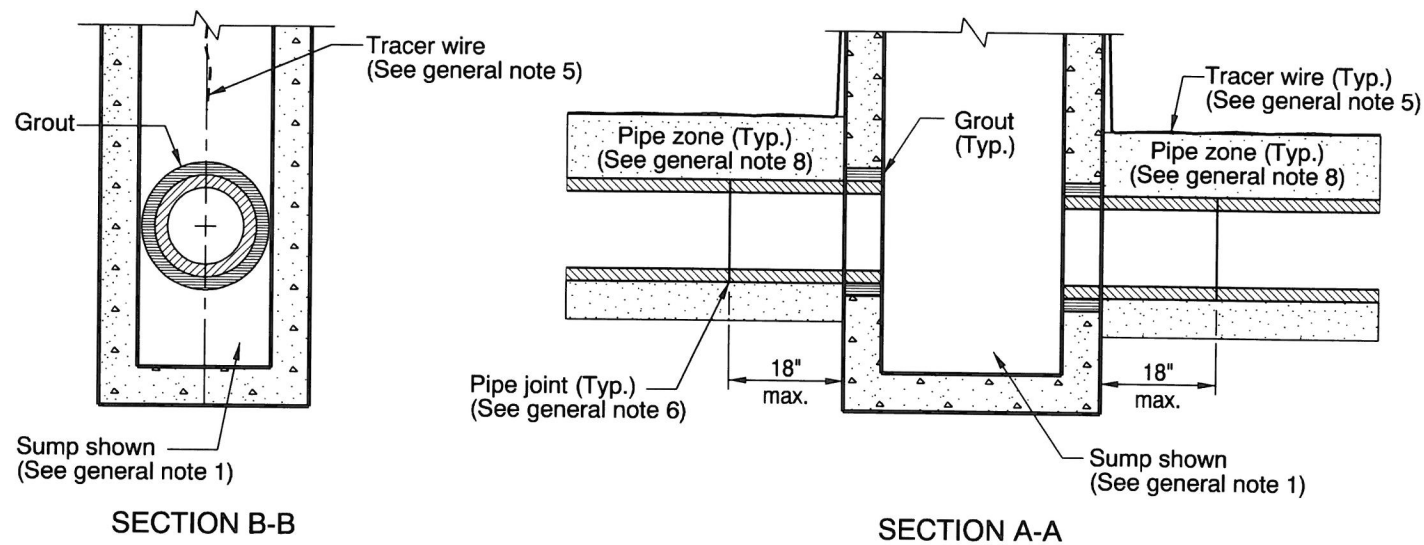
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Effective Date: June 1, 2016 - November 30, 2016

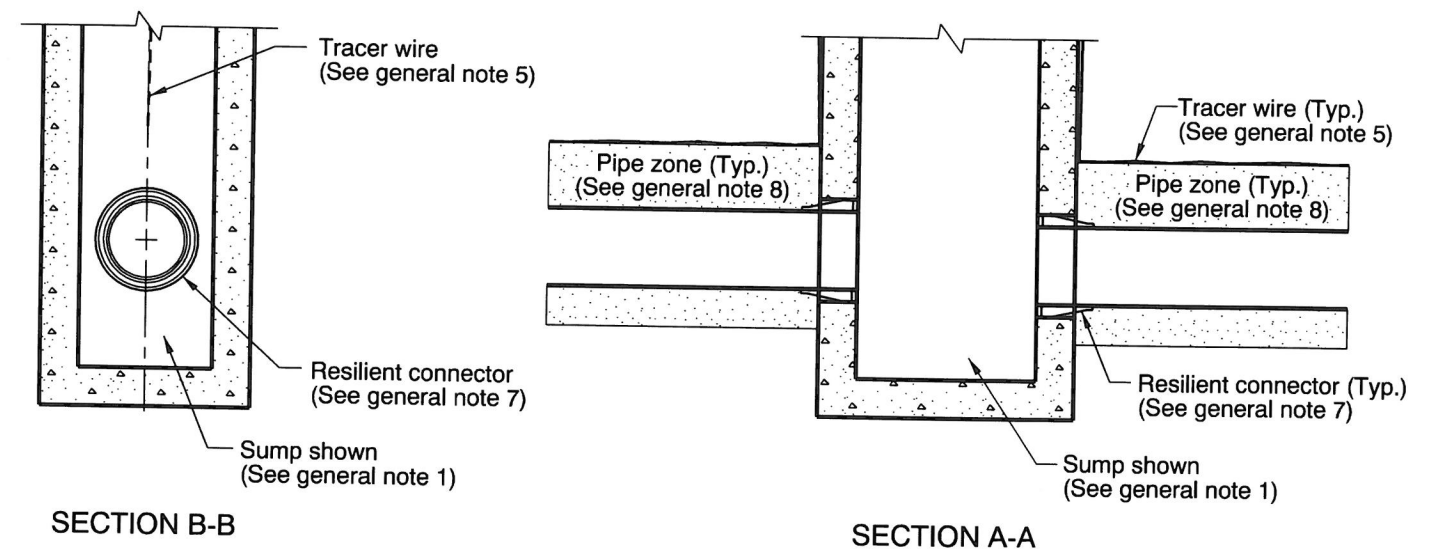
RD338

RD338

rd339.dgn 14-JUL-2014



CONNECTION OF RIGID PIPE TO STRUCTURE



CONNECTION OF FLEXIBLE PIPE TO STRUCTURE

GENERAL NOTES FOR ALL DETAILS:

1. See Std. Drgs. RD364, RD365, and RD366 for inlet details not shown.
2. See appropriate standard drawings or special project details for other similar structures.
3. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
4. Max. pipe diameter varies with pipe material.
5. All connecting pipes shall have a tracer wire, or approved alternate.
See Std. Drg. RD336 for tracer wire details.
6. When rigid pipe is used, the connecting pipe shall have a flexible, gasketted and unrestrained joint within 18" of manhole wall. Joint type varies with manufacturer.
7. When flexible pipe is used, install resilient connectors conforming to requirements of ASTM C923.
8. Pipe zone varies, see Std. Drg. RD300.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 14-JUL-2014

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

PIPE TO STRUCTURE CONNECTIONS

2015

DATE REVISION DESCRIPTION

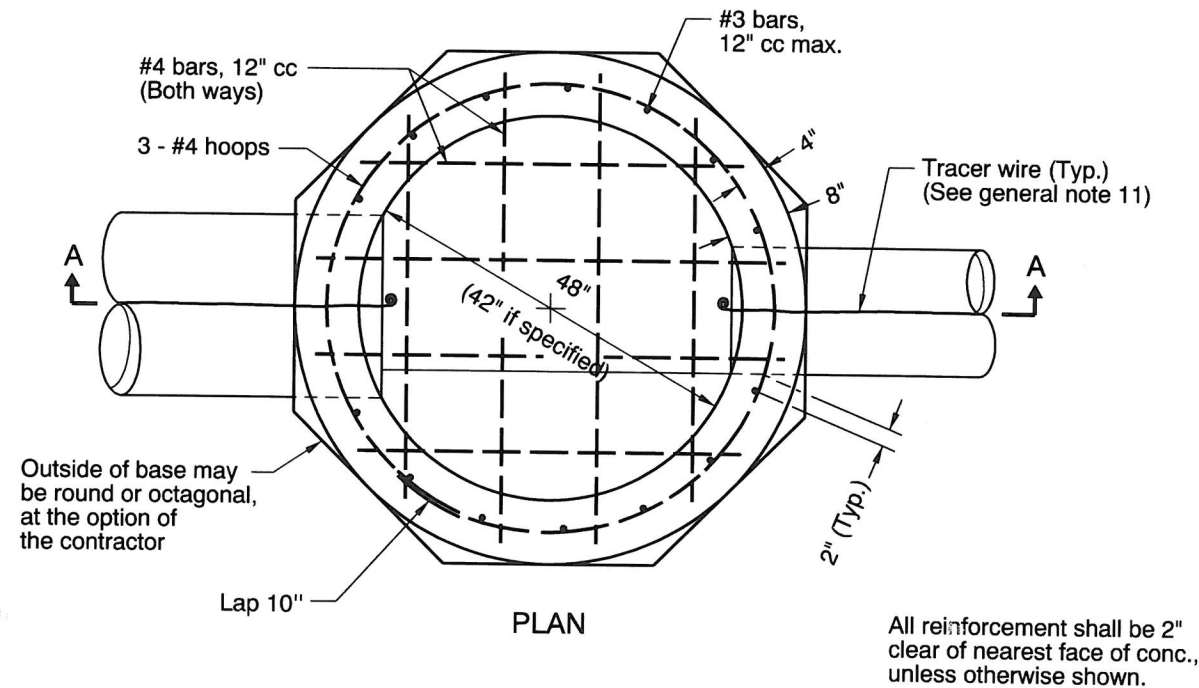
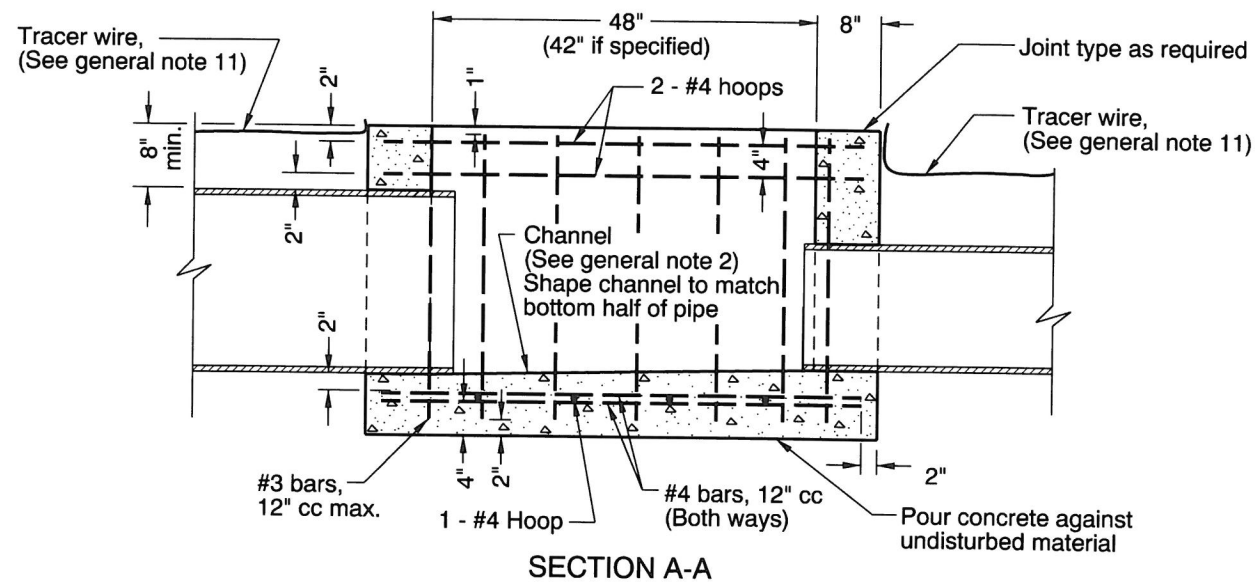
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

Effective Date: June 1, 2016 - November 30, 2016

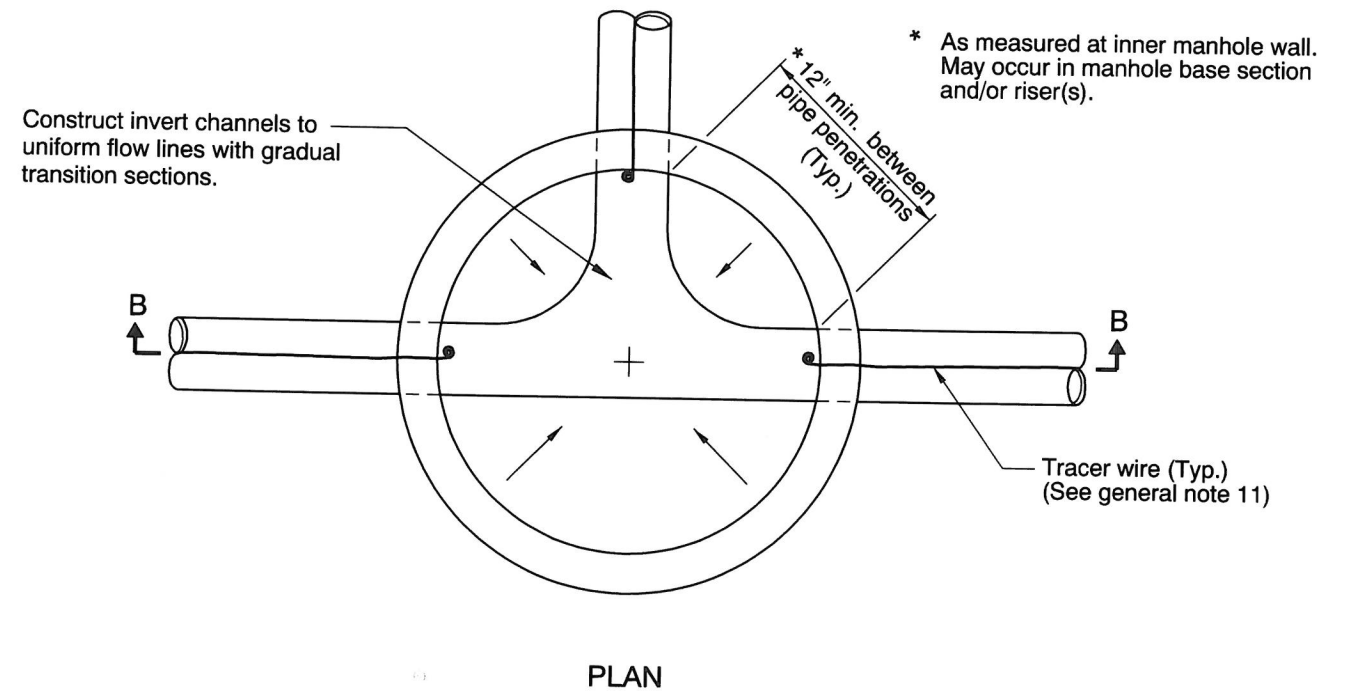
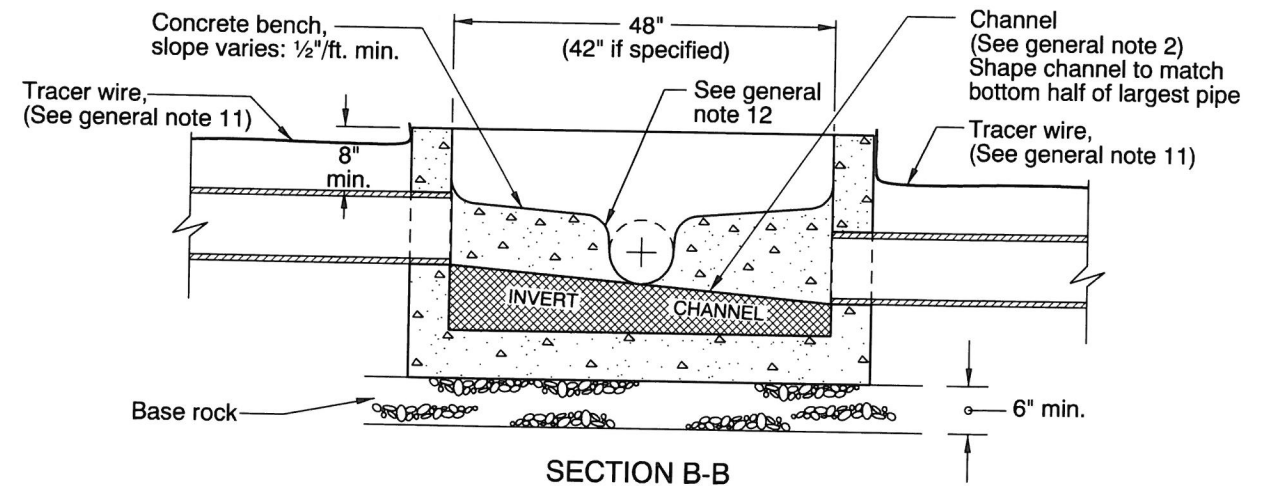
RD339

RD339

rd344.dgn 14-JUL-2014



CAST IN PLACE MANHOLE BASE
(For invert channel details, see precast option at right)



PRECAST MANHOLE BASE

GENERAL NOTES FOR ALL DETAILS:

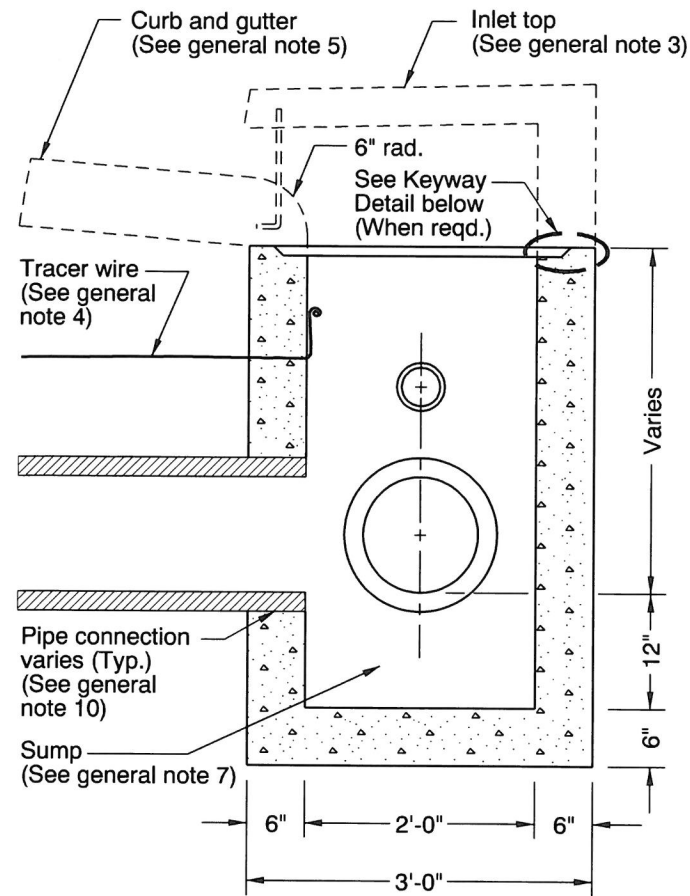
1. All concrete shall be commercial grade concrete.
2. Channels shall be constructed to provide smooth slopes and radii to outlet pipe.
3. Bases may be precast or cast in place.
4. Max. pipe diameter varies with pipe material.
5. Use on 42" and 48" diameter manhole.
6. Extend pipe into manhole and grout smooth.
Pipe(s) may extend 2" max. beyond the interior manhole wall.
7. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
8. All precast products shall conform to the requirements of ASTM C478.
9. See Std. Drg. RD345 for pipe to manhole connections.
10. See Std. Drg. RD336 for manhole steps details.
11. See Std. Drg. RD336 for tracer wire details.
12. At spring line of pipe, extend channel up to crown line on 12:1 batter.

CALC. BOOK NO. <u>N/A</u>	BASELINE REPORT DATE <u>14-JUL-2014</u>
<i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.</i>	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
	OREGON STANDARD DRAWINGS
	STANDARD MANHOLE BASE SECTION
	2015
	DATE REVISION DESCRIPTION

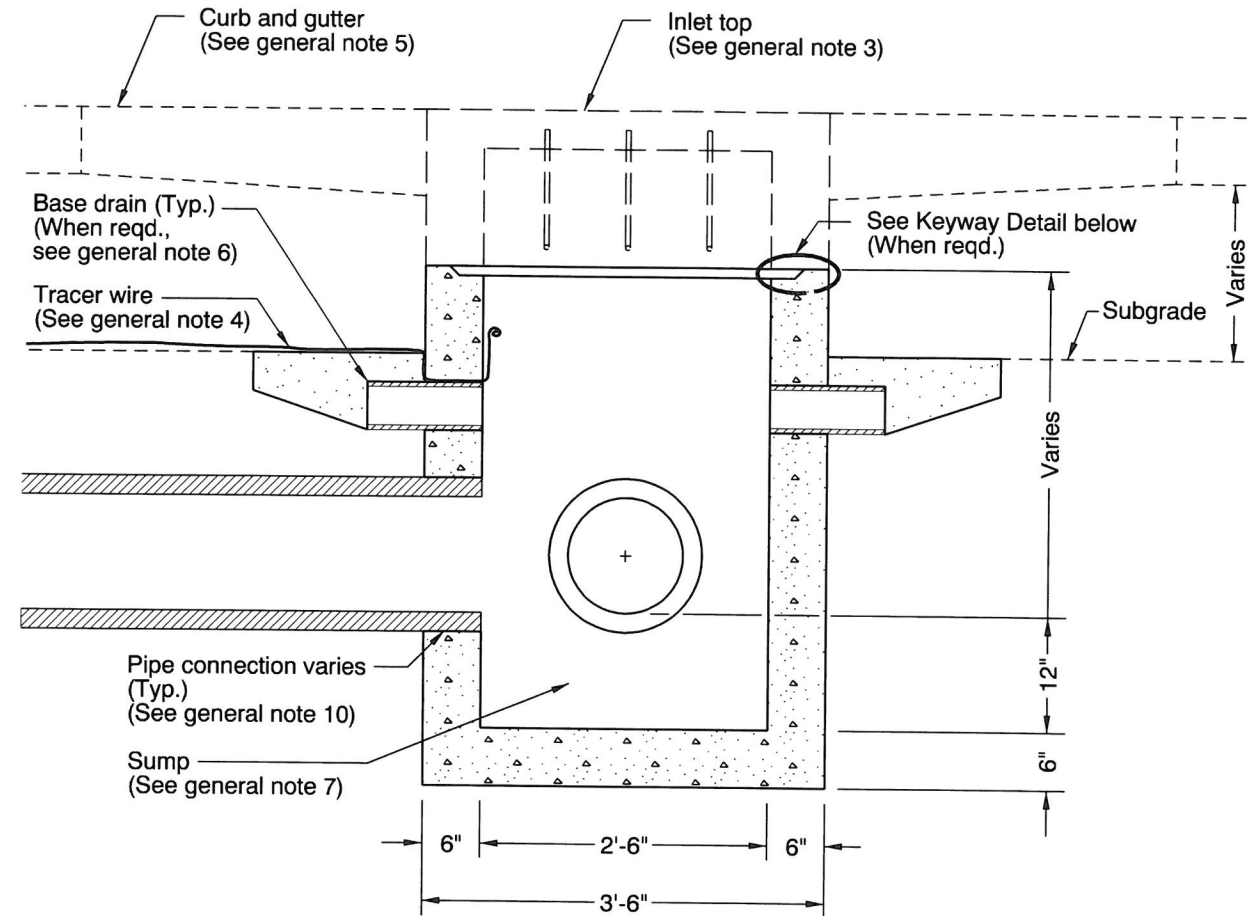
Effective Date: June 1, 2016 - November 30, 2016

RD344

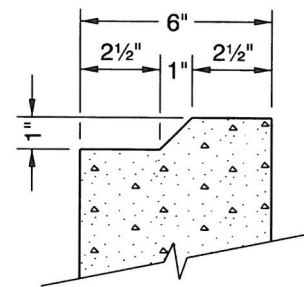
RD344



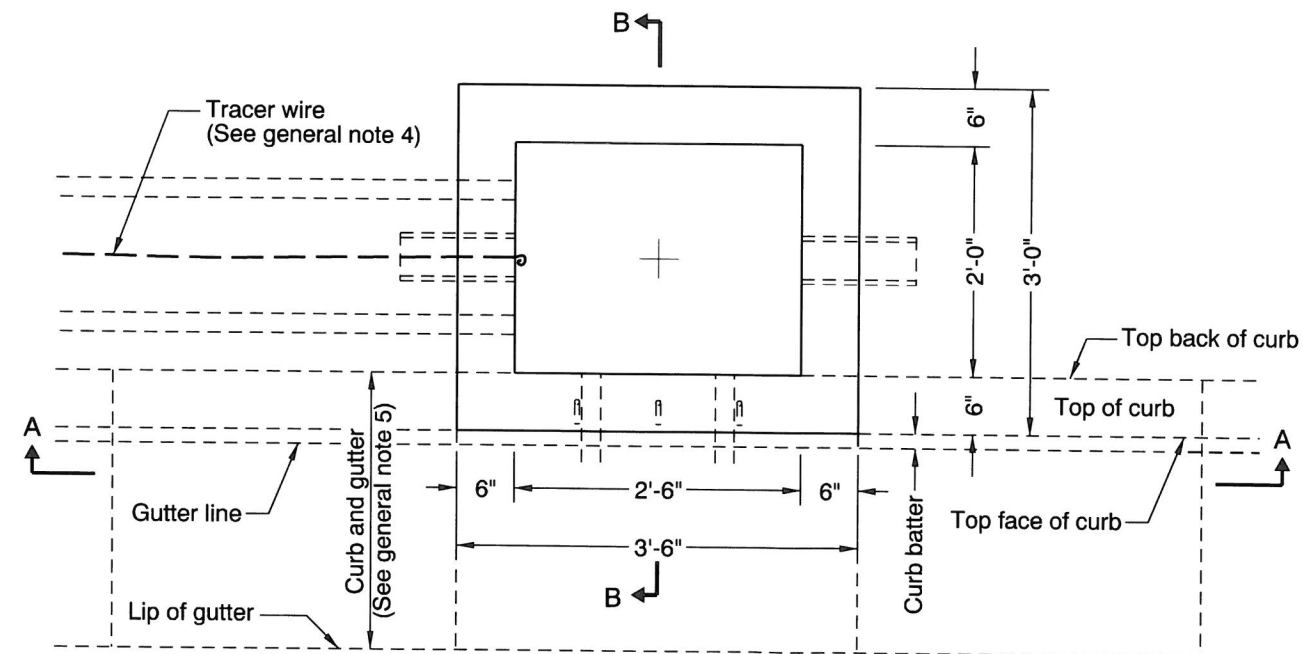
SECTION B - B



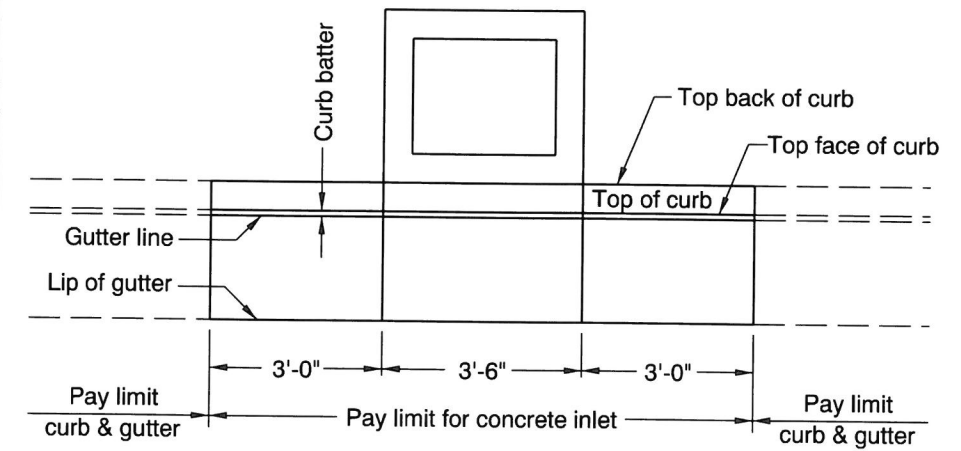
SECTION A - A



KEYWAY DETAIL



PLAN



PLAN

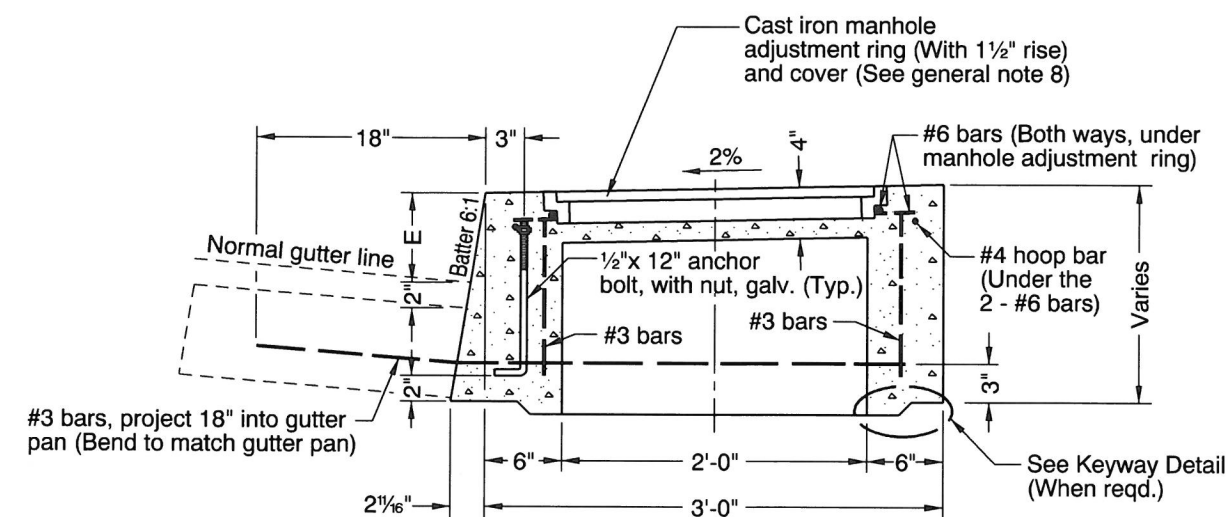
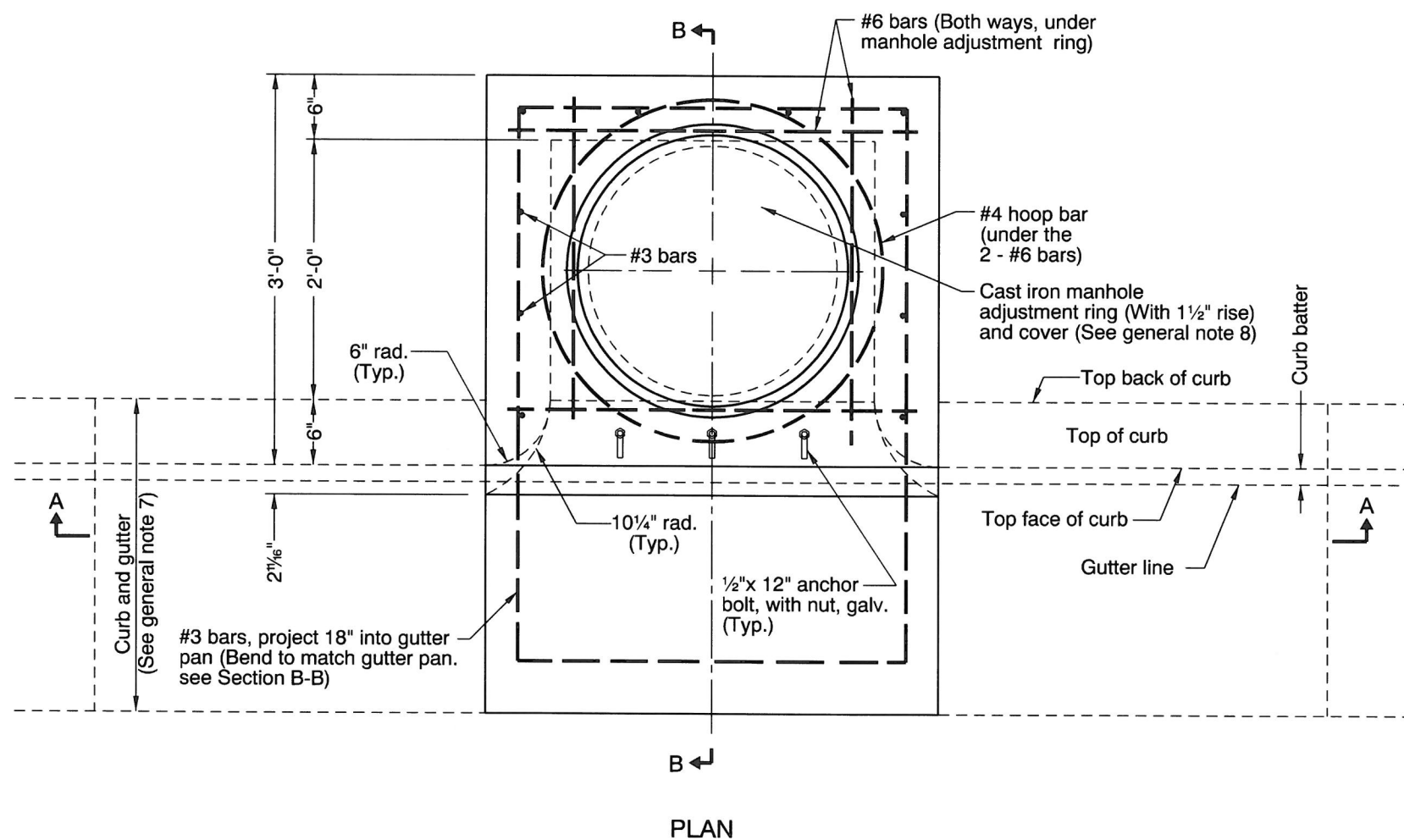
PAY LIMIT

GENERAL NOTES FOR ALL DETAILS:

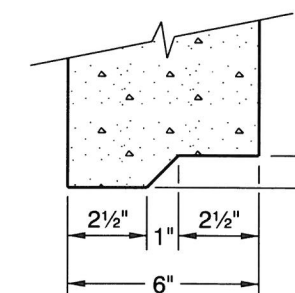
1. All concrete shall be commercial grade concrete.
2. Inlet base may be cast-in-place or precast. Where precast inlet base is used as an alternate, a 4" compacted leveling bed of sand or 1/4"-0 crushed aggregate shall be provided. All precast inlets shall conform to requirements of ASTM C913.
3. See Std. Drgs. RD372 & RD373 for inlet top details.
4. See Std. Drg. RD336 for tracer wire details, or approved alternate.
5. See Std. Drgs. RD700 & RD701 for curb and gutter details.
6. See Std. Drg. RD364 for base drain details.
7. Provide sump only where shown on plans, and allowed by jurisdiction. For sump details, see Std. Drg. RD364.
8. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
9. Max. pipe diameter varies with pipe material.
10. See Std. Drg. RD339 for pipe to structure connections.

CALC. BOOK NO. — — N/A — — — — — — —		BASELINE REPORT DATE — — 21-JUL-2015 — — — — — — —	
<i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.</i>		NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
		OREGON STANDARD DRAWINGS	
		CONCRETE INLET BASE TYPE CG-3	
		2015	
		DATE	REVISION DESCRIPTION
07-2015	REVISED DETAIL, REVISED AND ADDED NOTES		

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.



SECTION B - B



KEYWAY DETAIL

GENERAL NOTES FOR ALL DETAILS:

1. All concrete shall be commercial grade concrete.
2. Inlet top may be cast-in-place or precast. All precast inlets shall conform to requirements of ASTM C913.
3. All reinforcement shall be 2" clear of nearest face of conc., unless otherwise shown.
4. Vary anchor bolt length and reinforcing bar placement as required by curb exposure E (see note 7 below).
5. See Std. Drg. RD371 for inlet base details.
6. See Std. Drg. RD371 for inlet pay limit.
7. See Std. Drgs. RD700 & RD701 for curb and gutter details.
8. See Std. Drg. RD356 for cast iron manhole adjustment ring and cover.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 21-JUL-2015

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

**CONCRETE INLET TOP, OPTION 1
TYPE CG-3**

2015

DATE	REVISION DESCRIPTION
07-2015	REVISED AND ADDED NOTES

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.