



# 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.		
COVER SHEET	CS		
GENERAL NOTES	GN		
QUANTITY SHEET	QS		
STANDARD DETAILS	SD		
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9TH ST	WILLAMETTE FALLS DR	5TH AVE	C2.0-C2.1
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MARYLHURST DR	HILLCREST DR	HWY 43	C9.0-9.1
STRIPING			
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MARYLHURST DR	MARYLHURST DER	ROBINWOOD WAY	S1.0-1.3
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).



Know what's below.  
Call before you dig.



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CITY OF WEST LINN  
2016 ROAD PROGRAM

GENERAL NOTES

PROJECT NO.: PW-16-01  
DESIGNED BY: LCALLVERT  
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



**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. Quantities are estimates. Unit pricing to be used for all construction.
4. 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.
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.

**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:**

1. Water and sanitary sewer line crossings shall conform with the Oregon Administrative Regulation 333-061-0050(9).
2. Pipe bedding and trench backfill are incidental to pipe.
3. 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, 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 <sup>th</sup> St	End
Jamie Circle	16 <sup>th</sup> St	End
April Ct	16 <sup>th</sup> 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
Failing 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:**

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.
2. 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.
3. Contractor shall provide ingress and egress to residential driveways with limited delay.
4. 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.
5. Contractor shall schedule work to allow for a maximum 5 calendar days between removal of existing surface and installing base lift surface
6. 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.
7. Contractor to verify condition of all existing water services. replace as directed by west Linn water department.
8. All pavement removal at driveways shall be saw cut. no "feathering" to existing driveway surfacing.
9. Working Hours: 7:00 AM - 7:00 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 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.
2. Asphalt concrete pavement repair shall include aggregate base backfill/removal as necessary for meeting final grade.
3. Earthwork and excavation included as incidental for all bid items including curb work and driveway approaches.

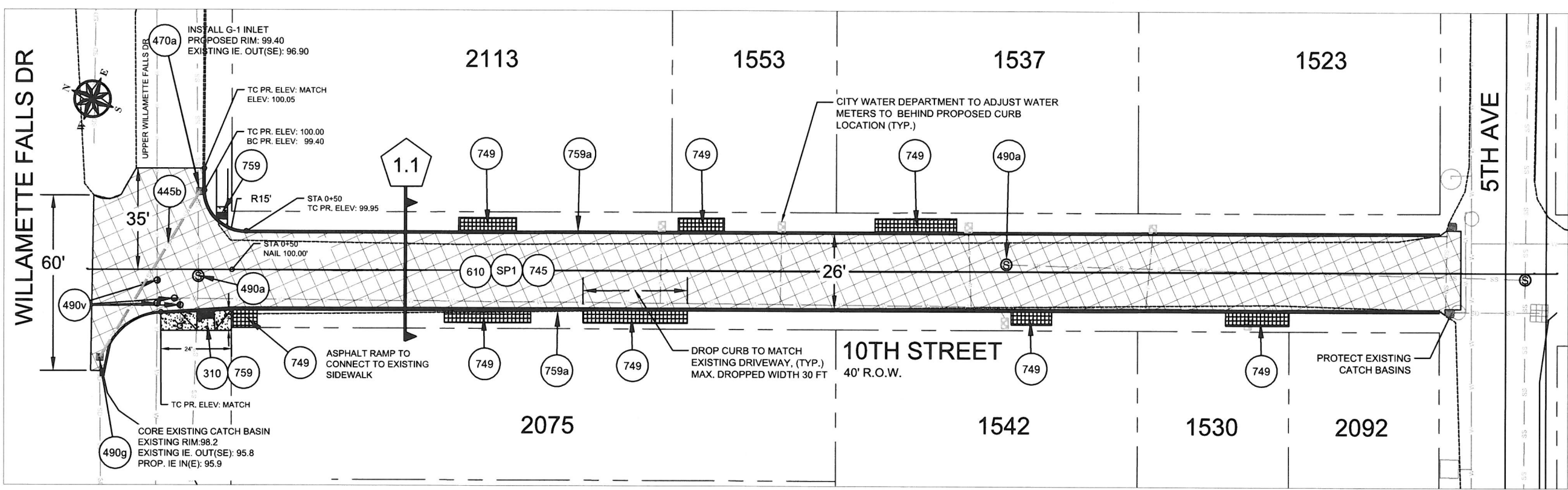
**GENERAL NOTE**

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

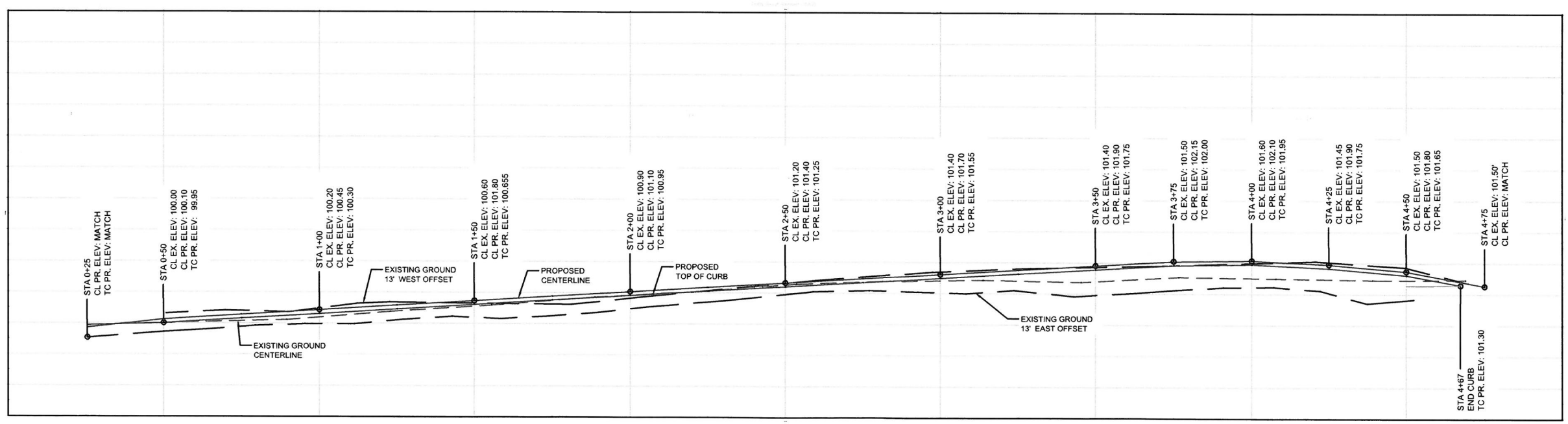
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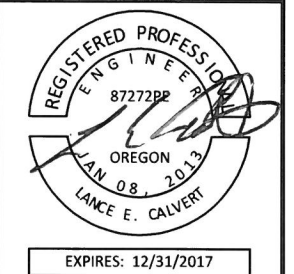




- CONSTRUCTION NOTES:**
1. MAXIMUM 5 CALENDAR DAYS BETWEEN REMOVAL OF EXISTING SURFACE AND INSTALLING BASE LIFT ACP. DAYS IN EXCESS OF MAXIMUM WILL RESULT IN LIQUIDATED DAMAGES.
  2. UTILITY LOCATIONS ARE BASED ON CITY OF WEST LINN GIS MAPPING. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL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



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

**CITY OF WEST LINN**  
**2016 ROAD PROGRAM**  
 10TH ST  
 FROM WILLAMETTE FALLS DR TO 5TH AVE

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

REVISION	DATE	DESCRIPTION

PAVING PLAN  
 SCALE: 1" = 40' Horizontal  
**C1.0**



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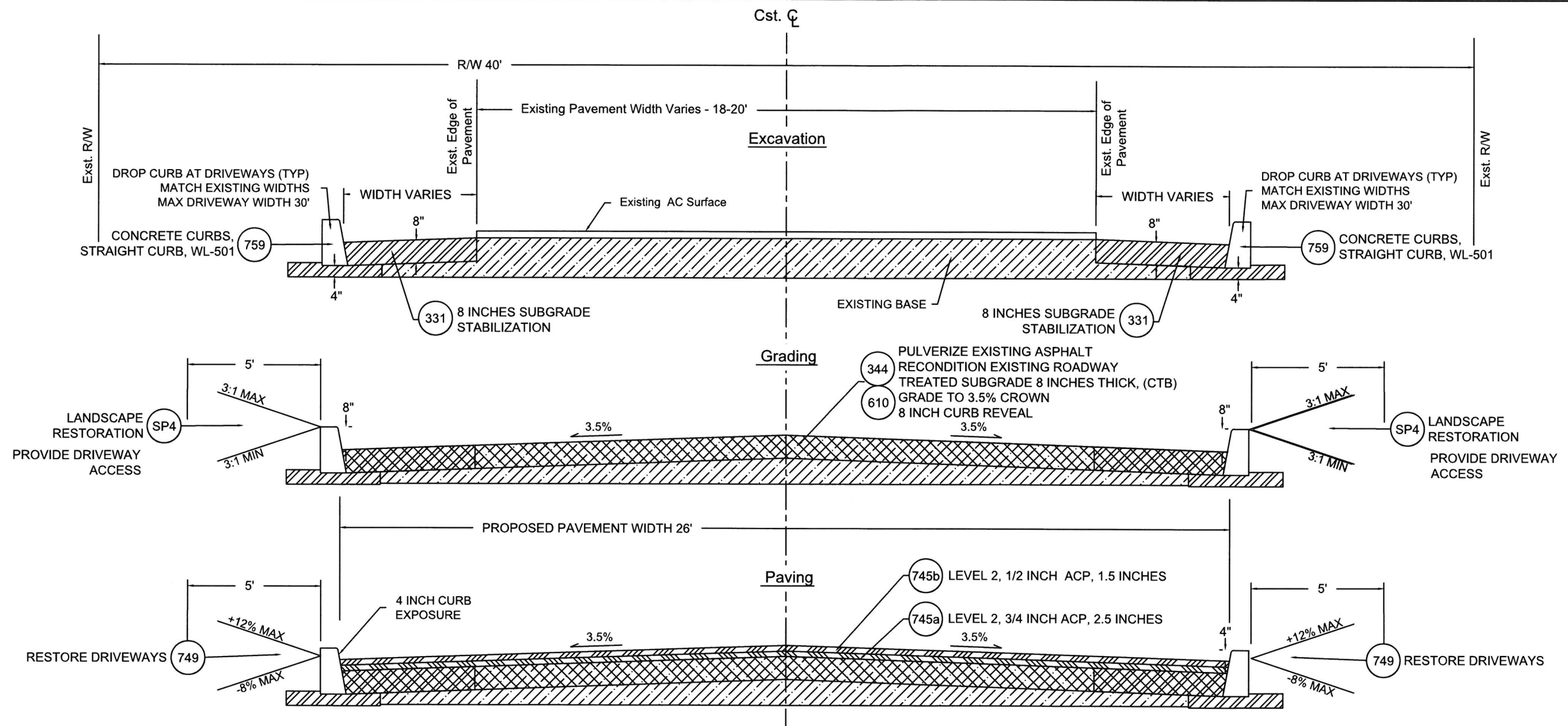
CITY OF WEST LINN  
 2016 ROAD PROGRAM  
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 DRAWN BY: NBRENNAN  
 CHECKED BY: ELAIS  
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REVISION	
DATE	DESCRIPTION

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



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CITY OF WEST LINN  
 2016 ROAD PROGRAM

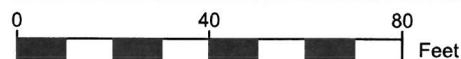
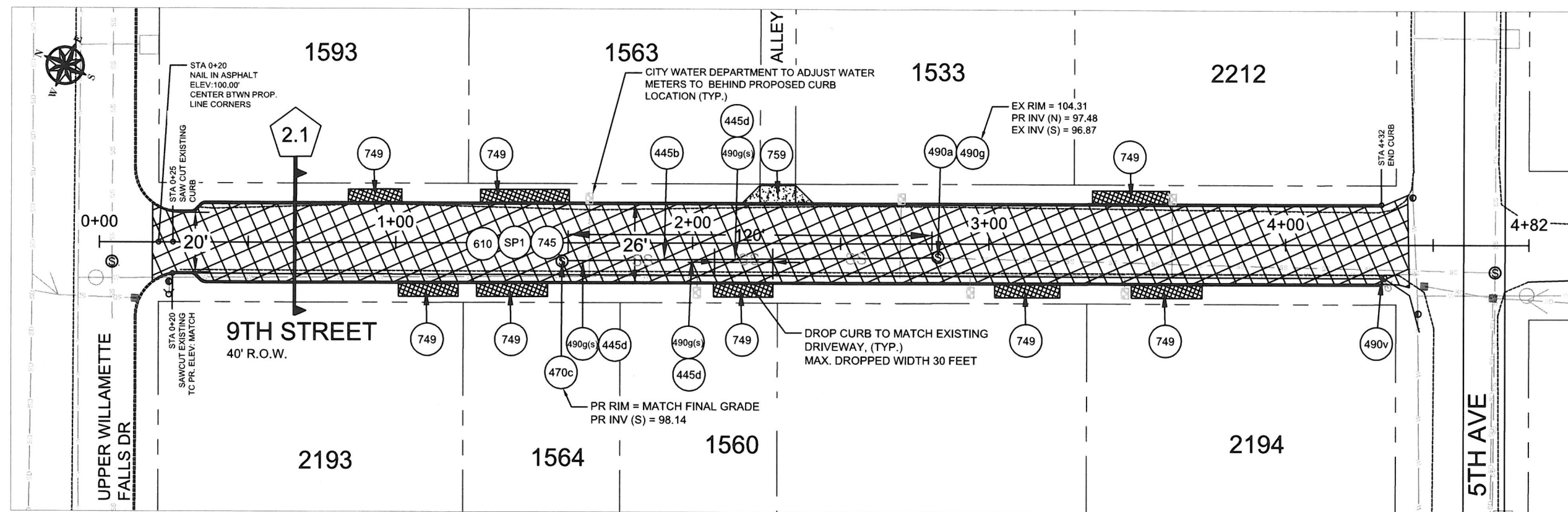
9TH ST  
 FROM WILLAMETTE FALLS DR TO 5TH AVE

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

REVISION	
DATE	DESCRIPTION
06/06/2016	Sewer Work

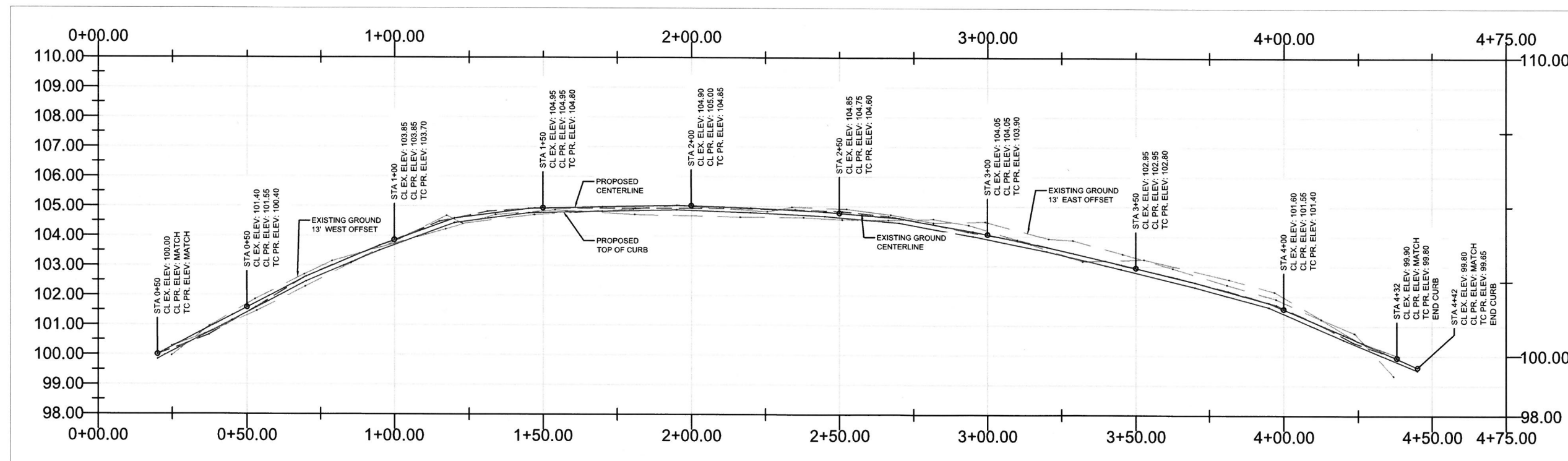
PAVING PLAN  
 SCALE: 1" = 40' Horizontal

C2.0



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. 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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CITY OF WEST LINN  
 2016 ROAD PROGRAM  
 9TH ST  
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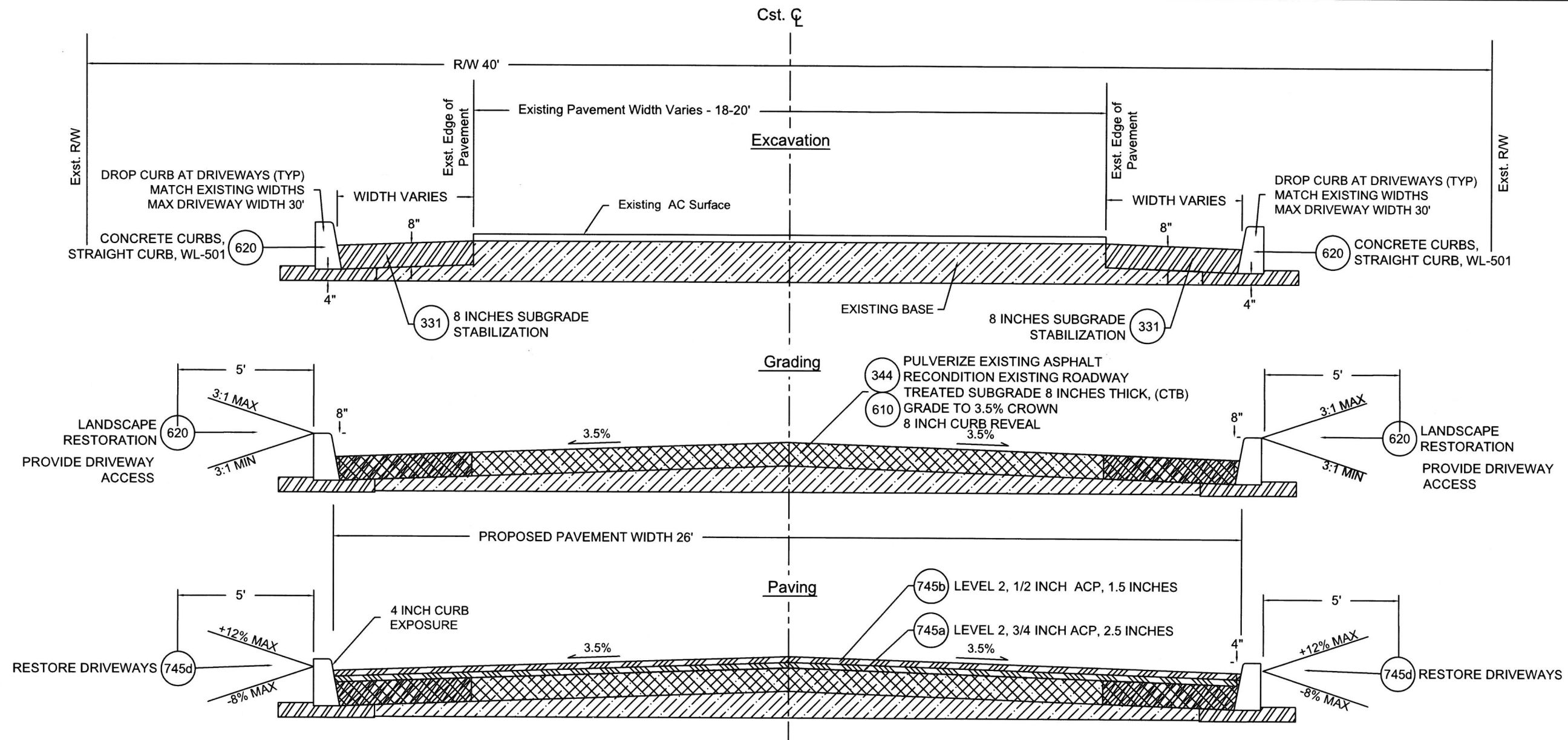
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REVISION

DATE	DESCRIPTION
06/06/2016	Quantity Revision

CONSTRUCTION DETAILS

C2.1



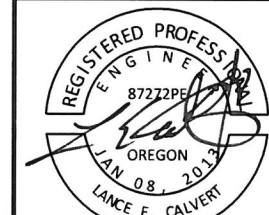
2.1 CROSS SECTION 9TH STREET  
 Not To Scale

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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CITY OF WEST LINN  
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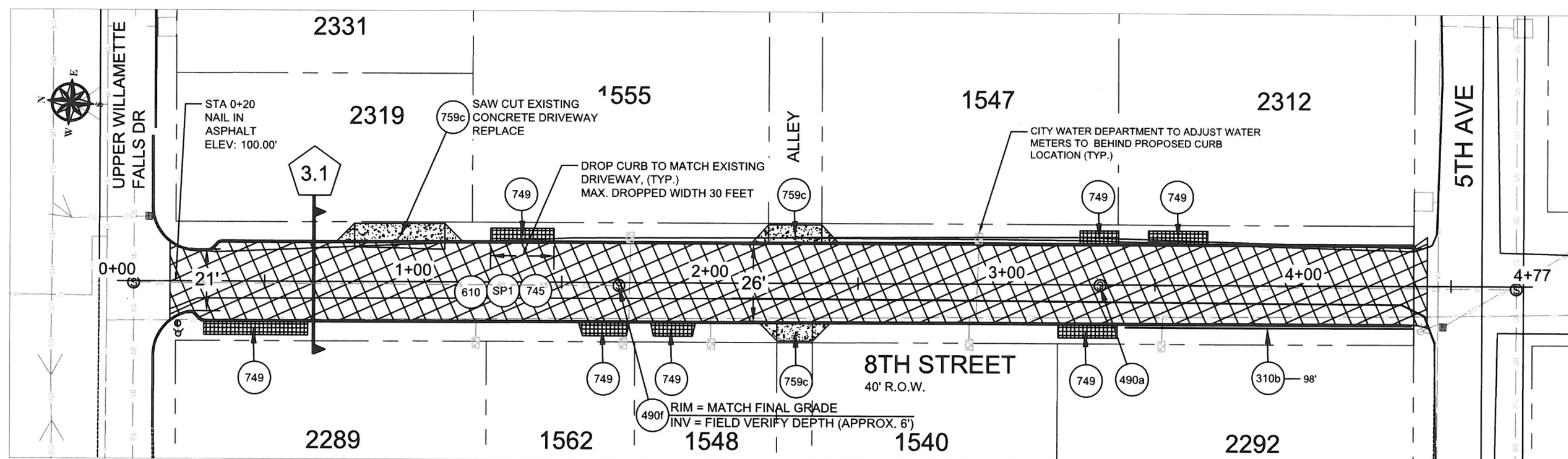
8TH ST  
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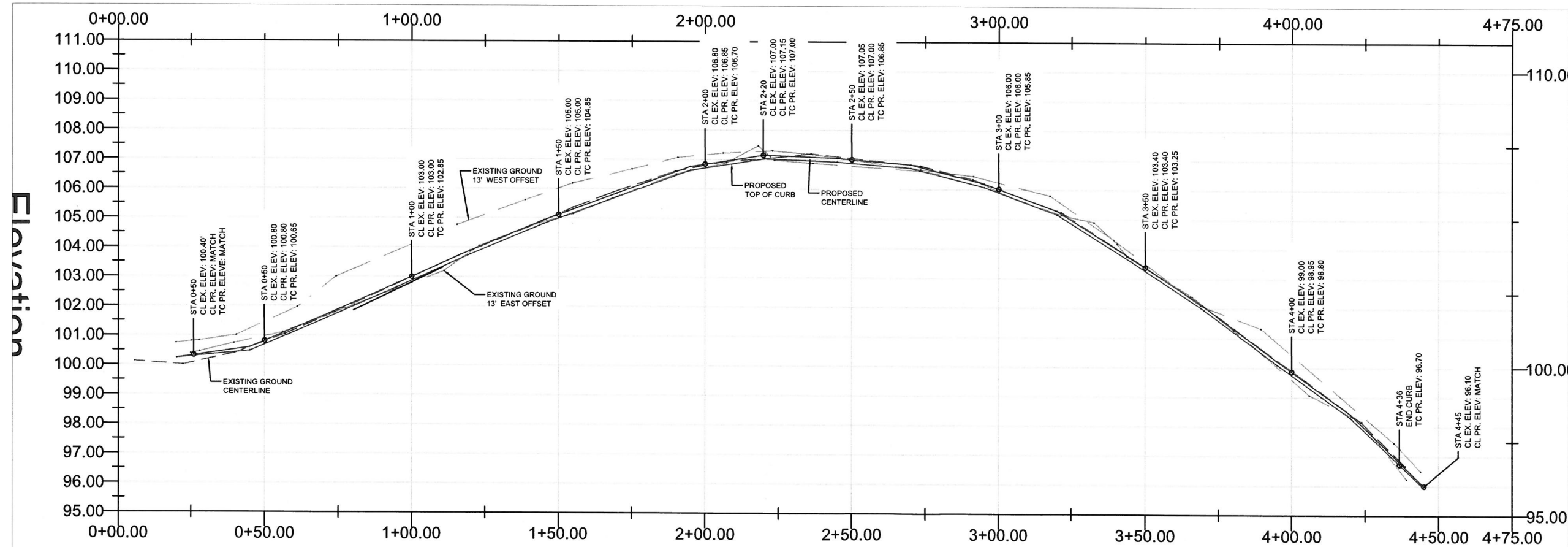
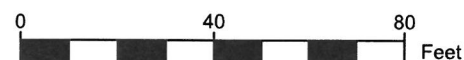
REVISION	
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06/06/2016	Sewer Work

PAVING PLAN  
 SCALE: 1" = 40' Horizontal

C3.0



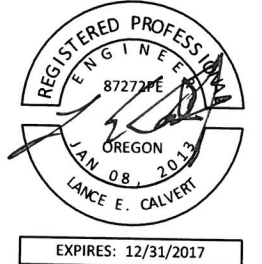
NOTE: MANHOLE OVER EXISTING SEWER INCLUDES REMOVAL OF EXISTING CLEANOUT AS INCIDENTAL. LOCATION TO BE POTHOLED PRIOR TO INSTALLATION TO VERIFY DEPTH.







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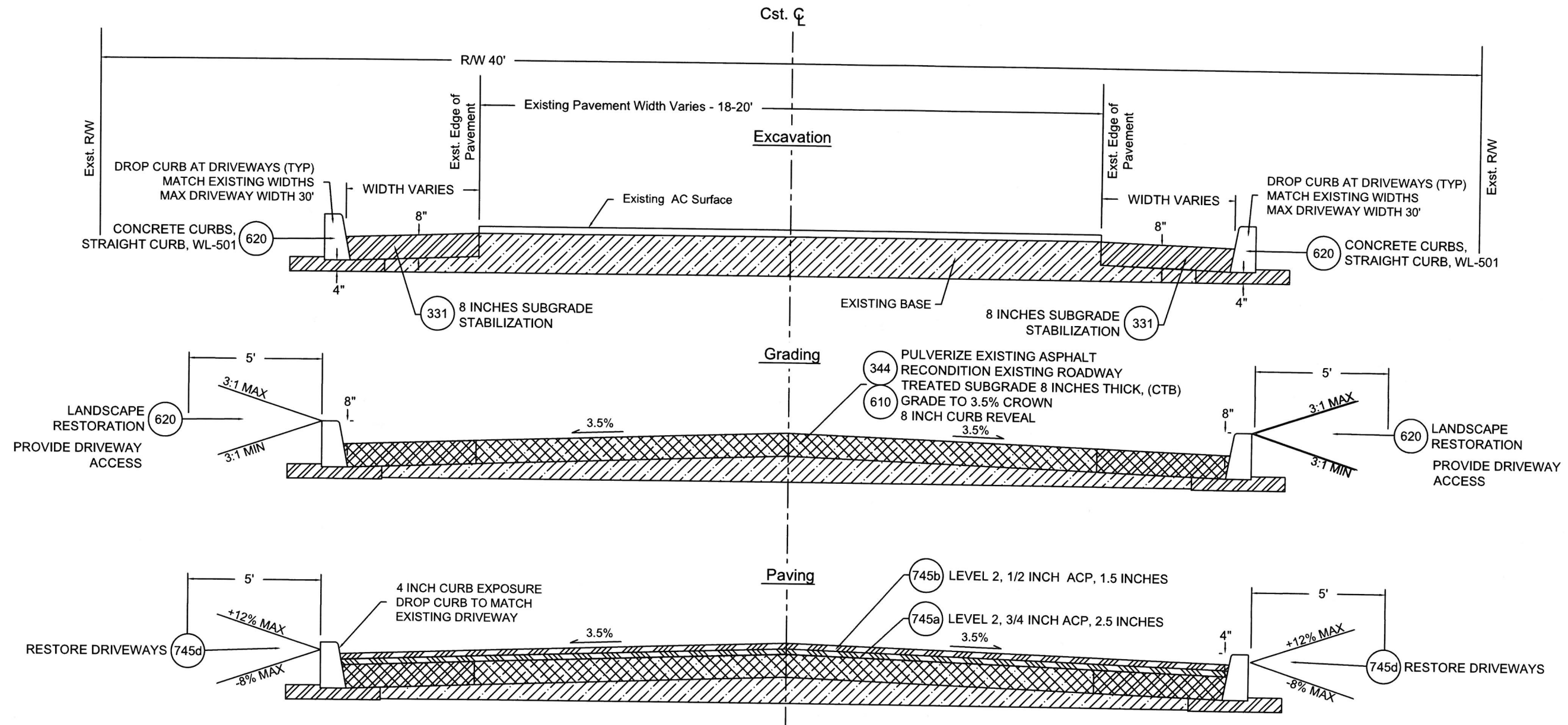
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06/06/2016	Sewer Work

CONSTRUCTION DETAILS

C3.1



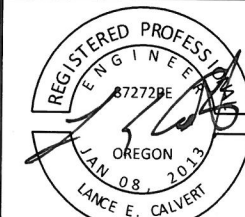
3.1 CROSS SECTION 8TH STREET  
 Not To Scale

SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	8th ST
331	00310.92b	REMOVAL OF CURBS	LF	98
331	00331.90	8 INCHES SUBGRADE STABILIZATION (WIDENING)	SY	180
344	00344.90a	TREATED SUBGRADE 8 INCHES THICK, (CTB)	SY	1220
344c	00344.90c	PORTLAND CEMENT	TON	24
490f	00490.90f	MANHOLES OVER EXISTING SEWERS	EA	1
SP1		ASPHALT PULVERIZING	SY	1220

SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	8th ST
490a	00490.90a	MINOR ADJUSTMENT OF MANHOLES	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	7
750a	00759.90a	CONCRETE CURBS, CURB AND GUTTER WL-501	LF	820
750c	00759.90c	CONCRETE DRIVEWAY, 6 INCHES DEPTH WL-503B	EA	4



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EXPIRES: 12/31/2017

CONTRACTOR

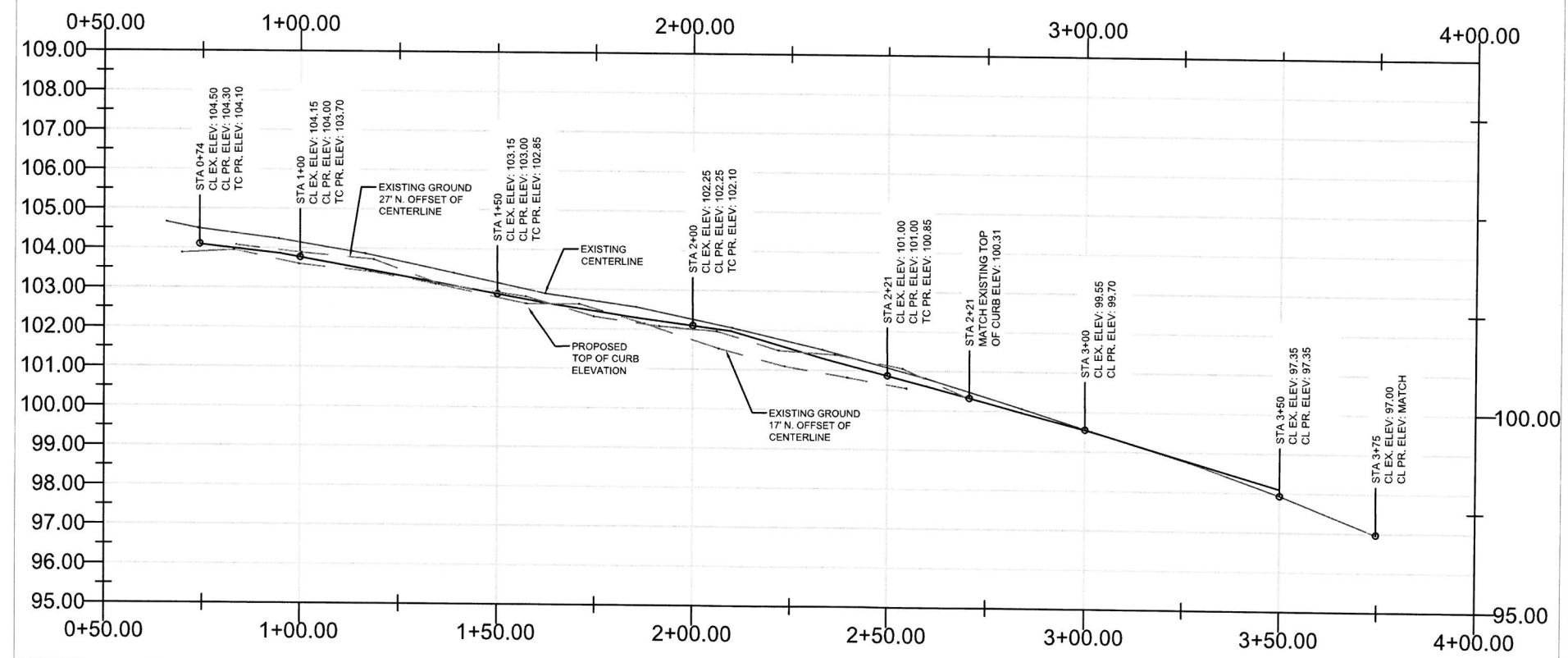
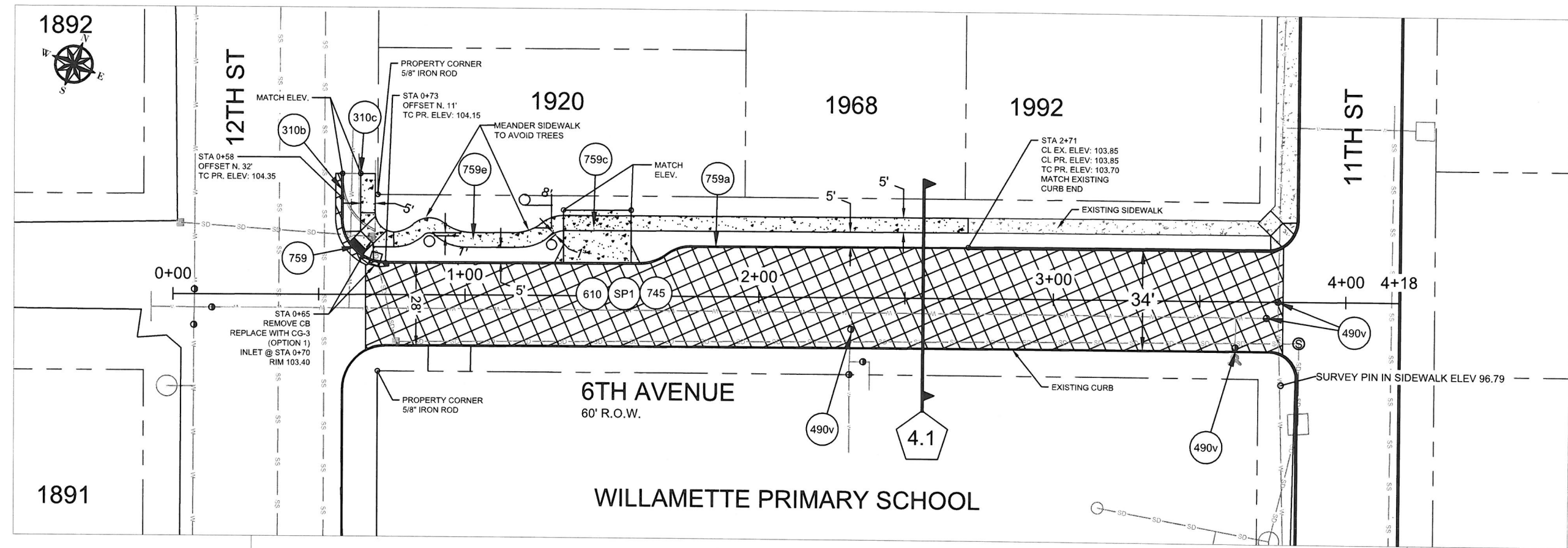
NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

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
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.





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

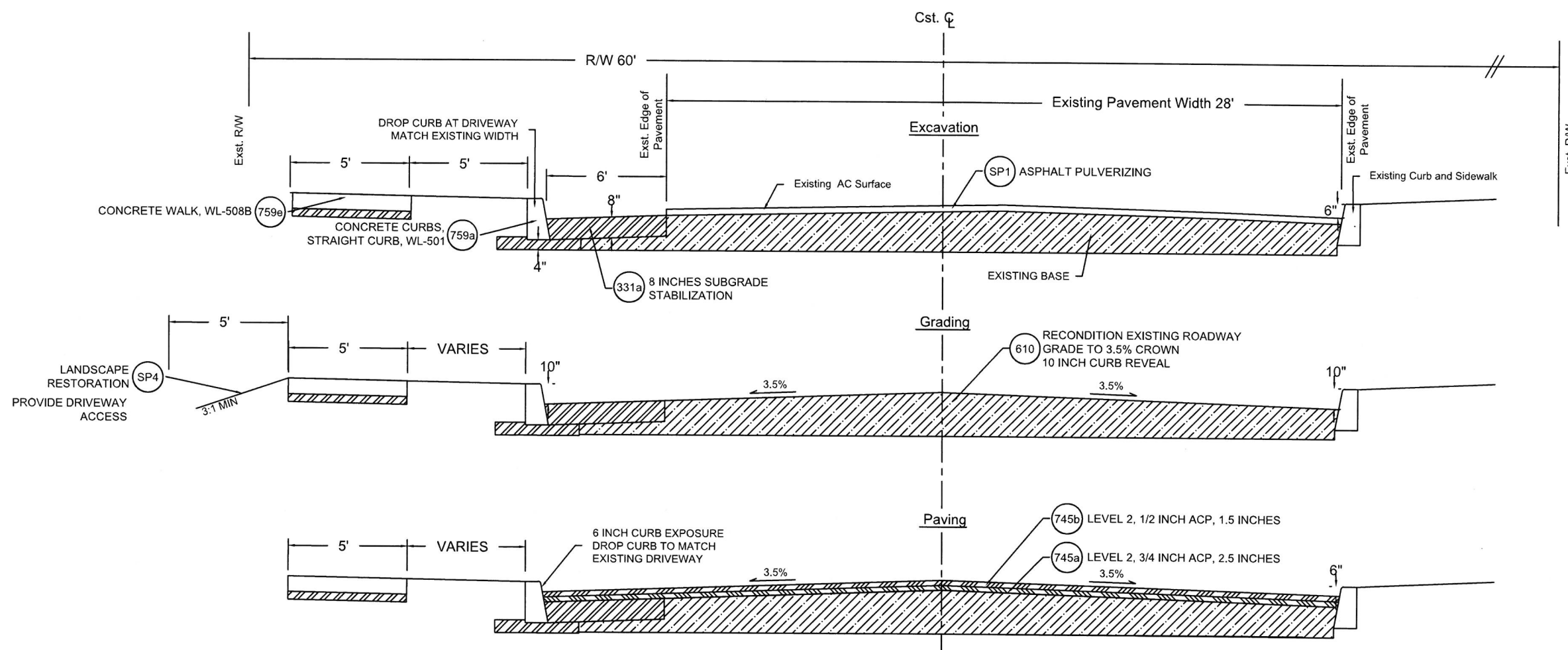
CITY OF WEST LINN  
 2016 ROAD PROGRAM  
 6TH AVE  
 FROM 11TH ST TO 12TH ST

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



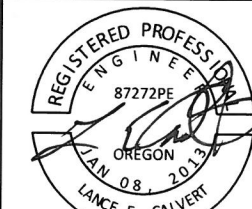
4.1 CROSS SECTION 6TH AVENUE  
 Not To Scale

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



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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  
 BRITTON ST FROM DOLLAR ST TO  
 WILLAMETTE FALLS DRIVE

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

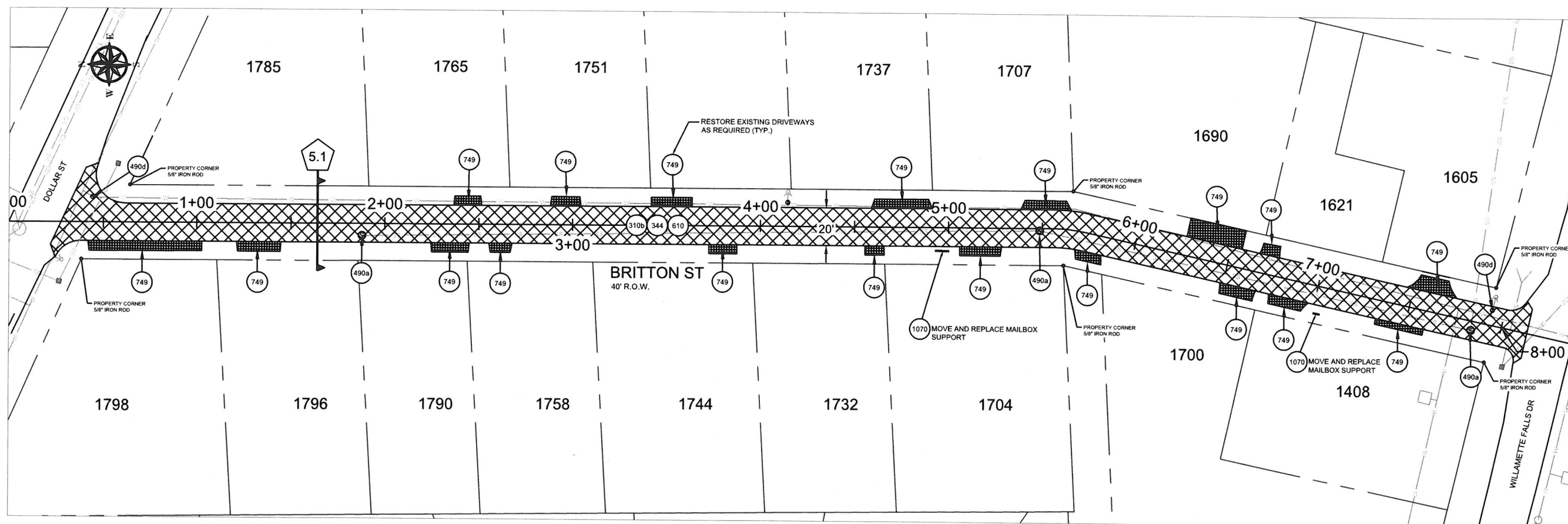
REVISION

DATE DESCRIPTION

PAVING PLAN

SCALE: 1" = 60' Horizontal

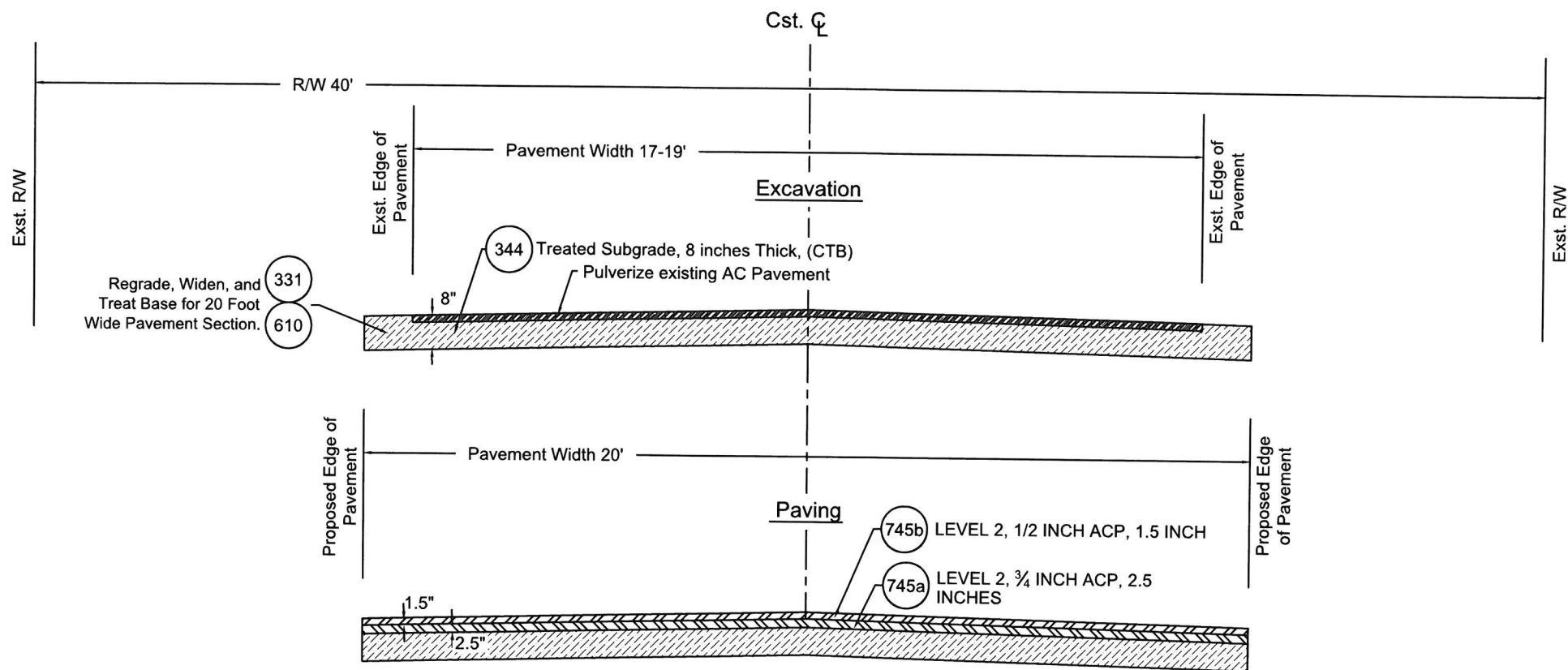
C5.0



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:

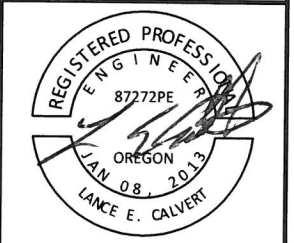
- MAXIMUM 5 CALENDAR DAYS BETWEEN REMOVAL OF EXISTING SURFACE AND INSTALLING BASE LIFT ACP. DAYS IN EXCESS OF MAXIMUM WILL RESULT IN LIQUIDATED DAMAGES
- UTILITY LOCATIONS ARE BASED ON CITY OF WEST LINN GIS MAPPING. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO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



5.1 CROSS SECTION BRITTON ST  
Not To Scale



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  
BRITTON ST FROM DOLLAR ST TO  
WILLAMETTE FALLS DRIVE

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

REVISION	
DATE	DESCRIPTION

CONSTRUCTION DETAILS

C5.1



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  
 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

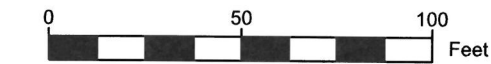
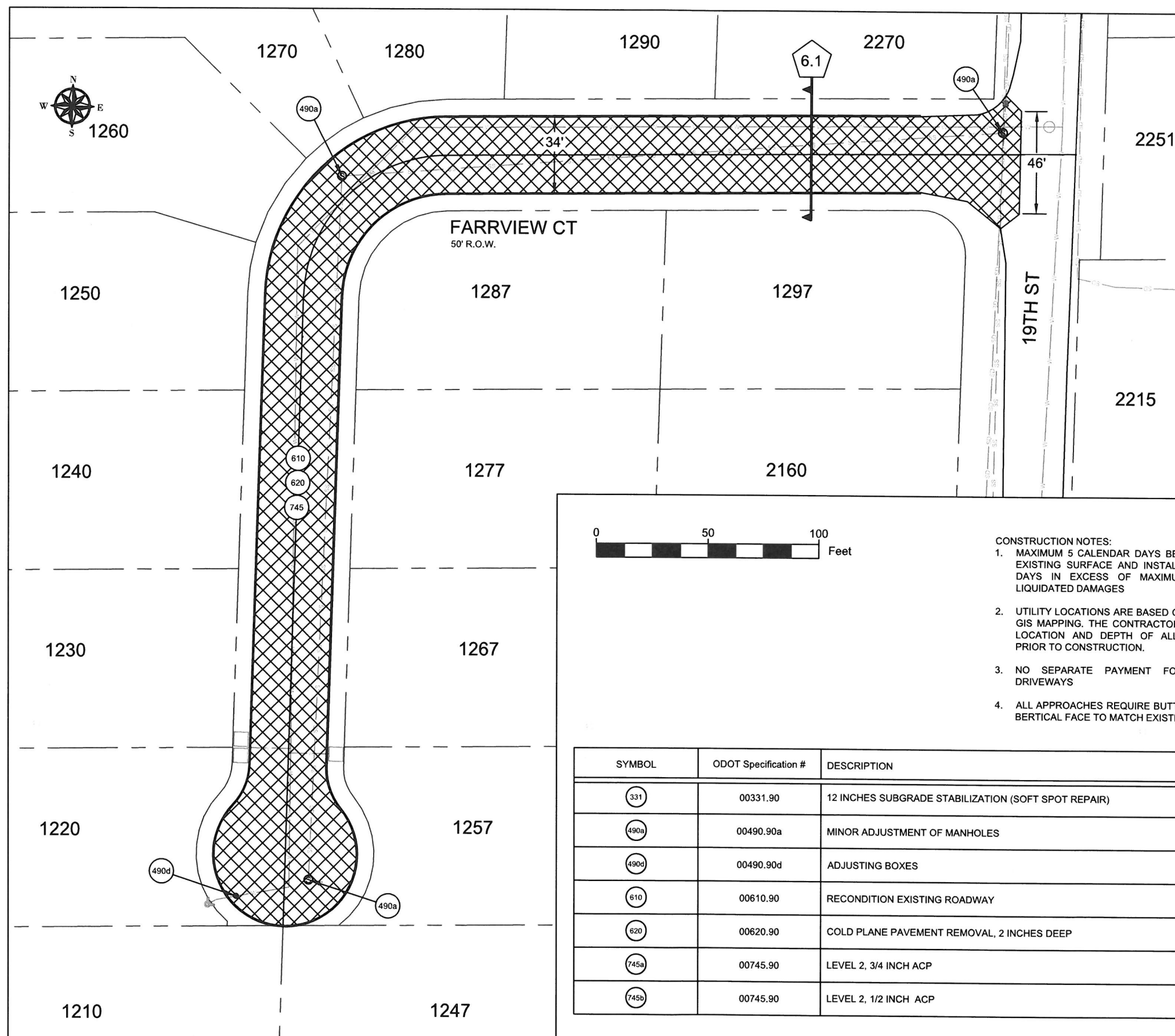
REVISION

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
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 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	RECONITION 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



CITY OF WEST LINN  
 22500 SALAMO ROAD  
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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

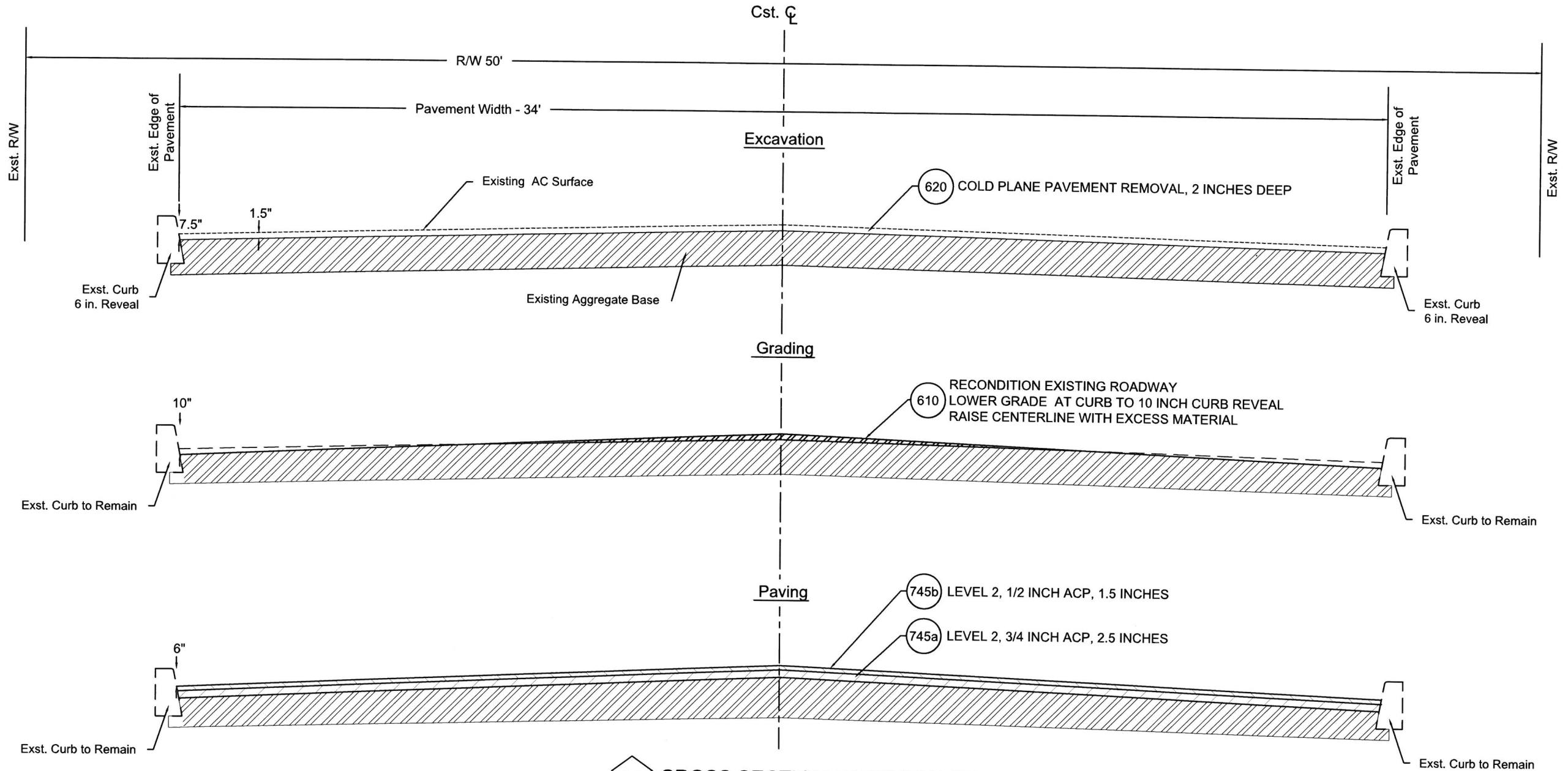
FARRVIEW CT  
 FROM 19TH ST TO END

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

DATE	DESCRIPTION

CONSTRUCTION DETAILS

C6.1



6.1 CROSS SECTION FARRVIEW CT  
 Not To Scale



CITY OF WEST LINN  
 22500 SALAMO ROAD  
 WEST LINN, OREGON 97068  
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 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  
 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

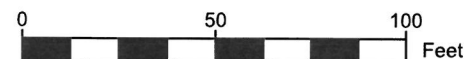
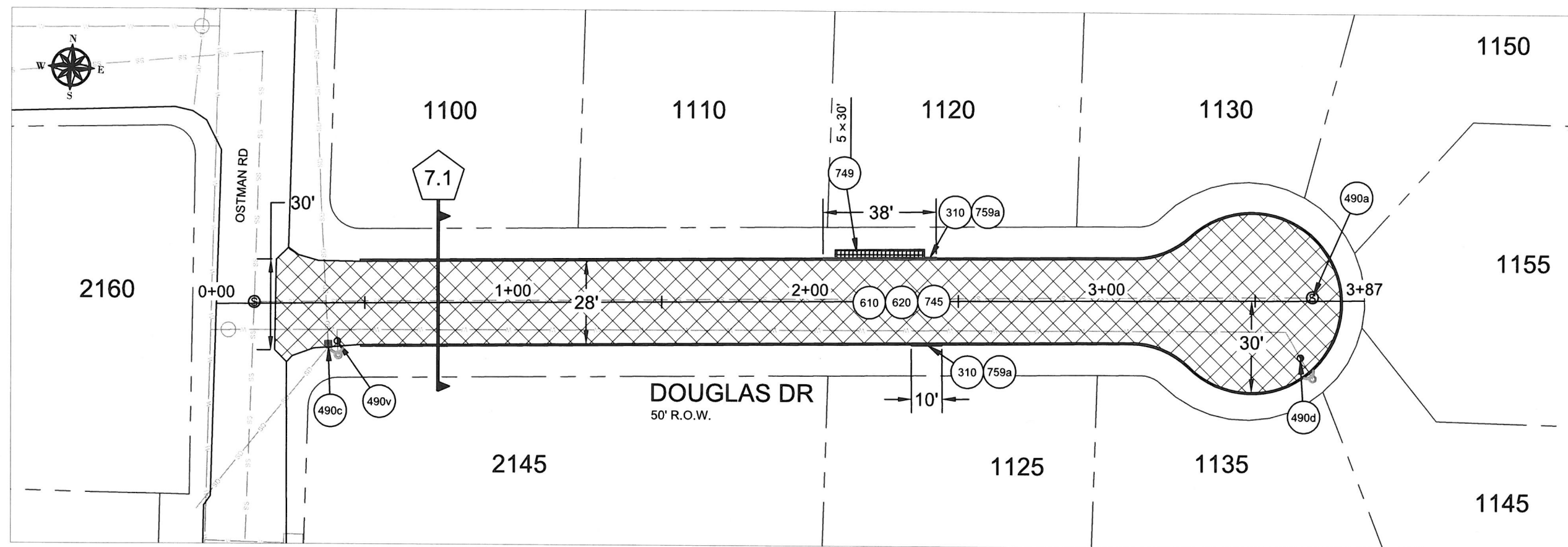
REVISION

DATE DESCRIPTION

PAVING PLAN

SCALE: 1" = 50' Horizontal

C7.0



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

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.





CITY OF WEST LINN  
 22500 SALAMO ROAD  
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 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

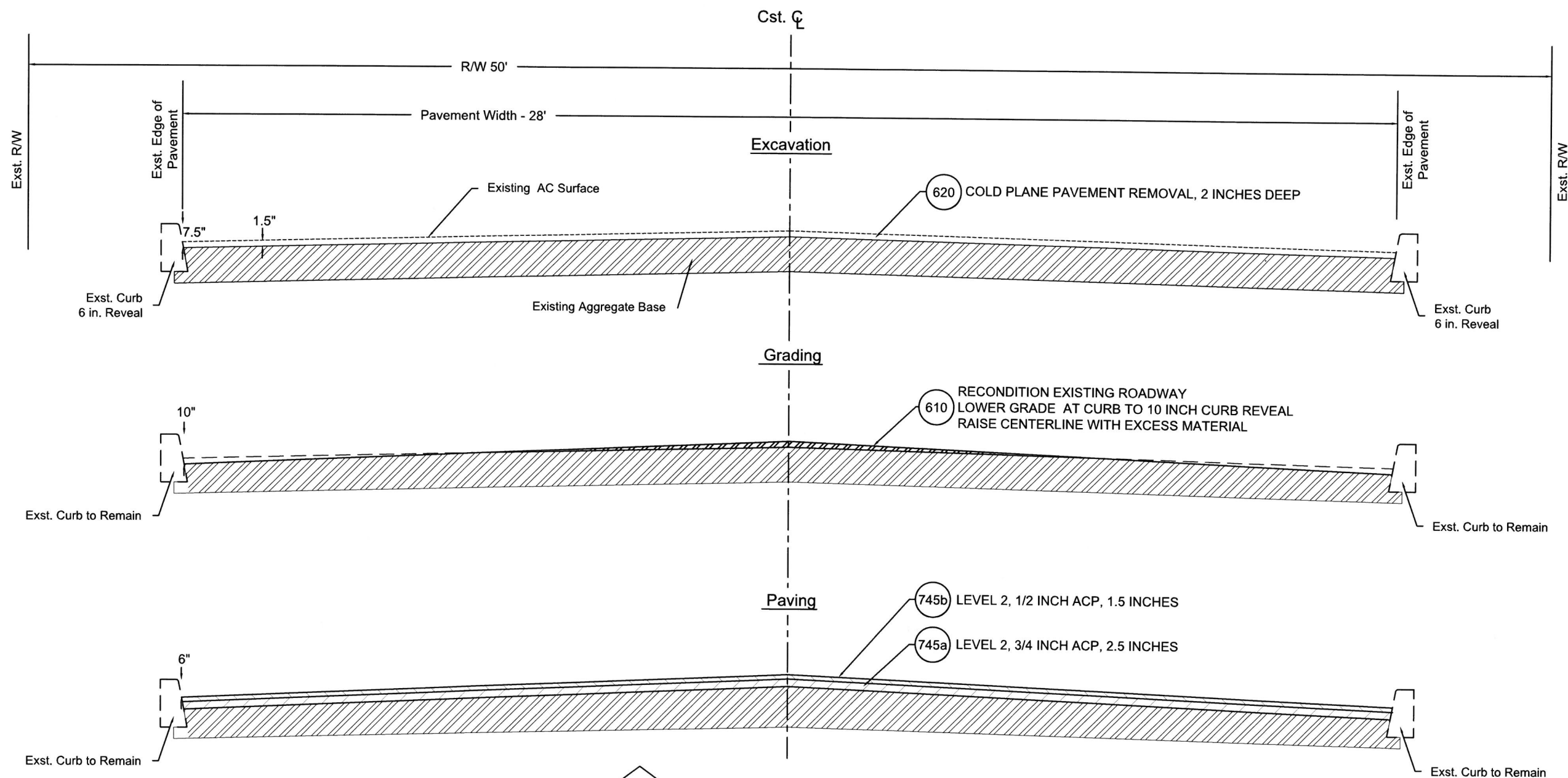
DOUGLAS DR  
 FROM OSTMAN RD TO END

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

REVISION	
DATE	DESCRIPTION

CONSTRUCTION DETAILS

C7.1



7.1 CROSS SECTION DOUGLAS DR  
 Not To Scale



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

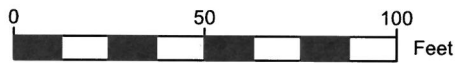
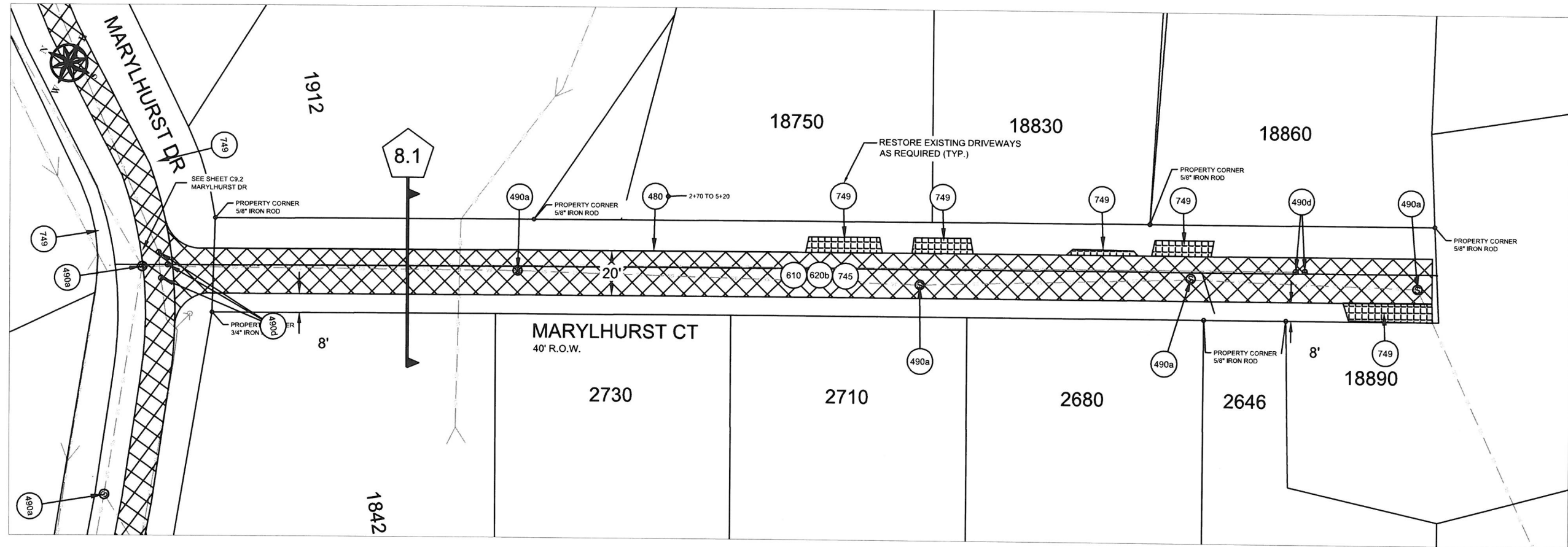
MARYLHURST CT  
 FROM MARYLHURST DR TO END

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'

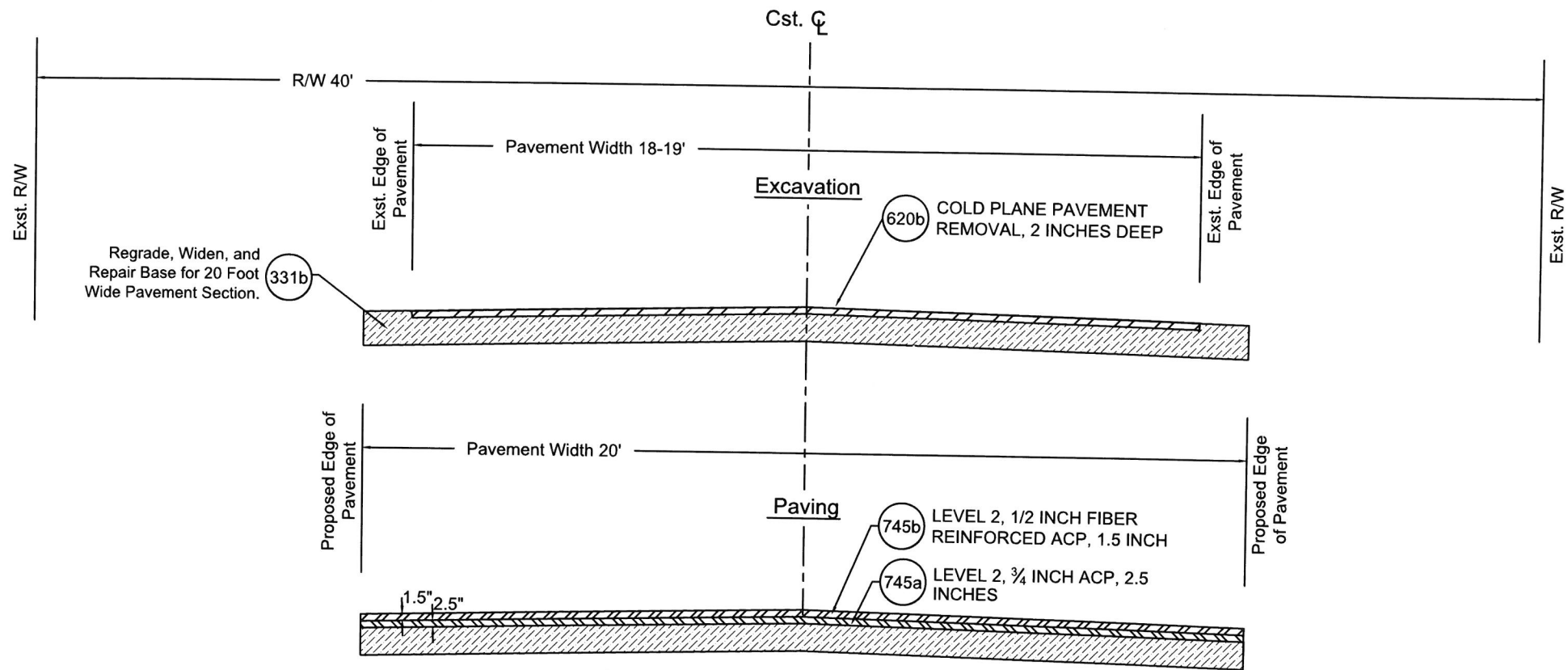
C8.0



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.

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



8.1 CROSS SECTION MARYLHURST CT  
Not To Scale



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 CT  
FROM MARYLHURST DR TO END

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

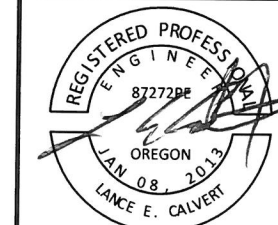
REVISION	
DATE	DESCRIPTION

CONSTRUCTION DETAILS

C8.1



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

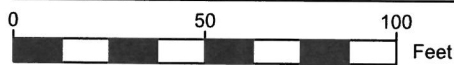
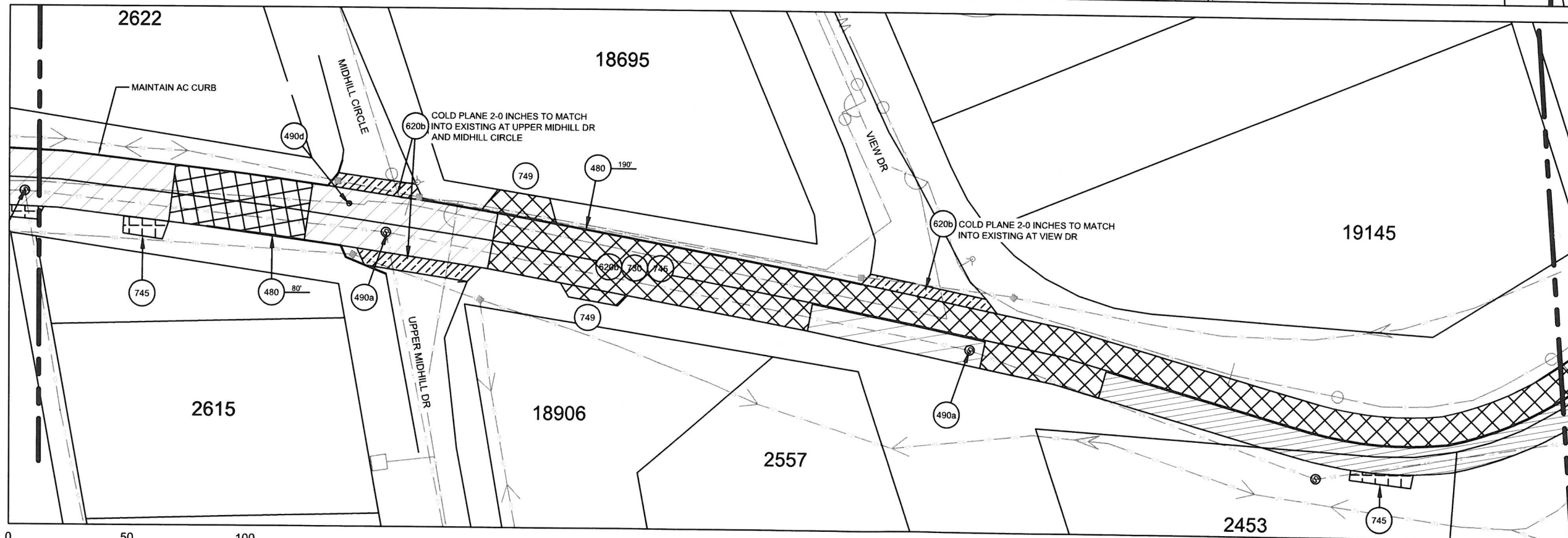
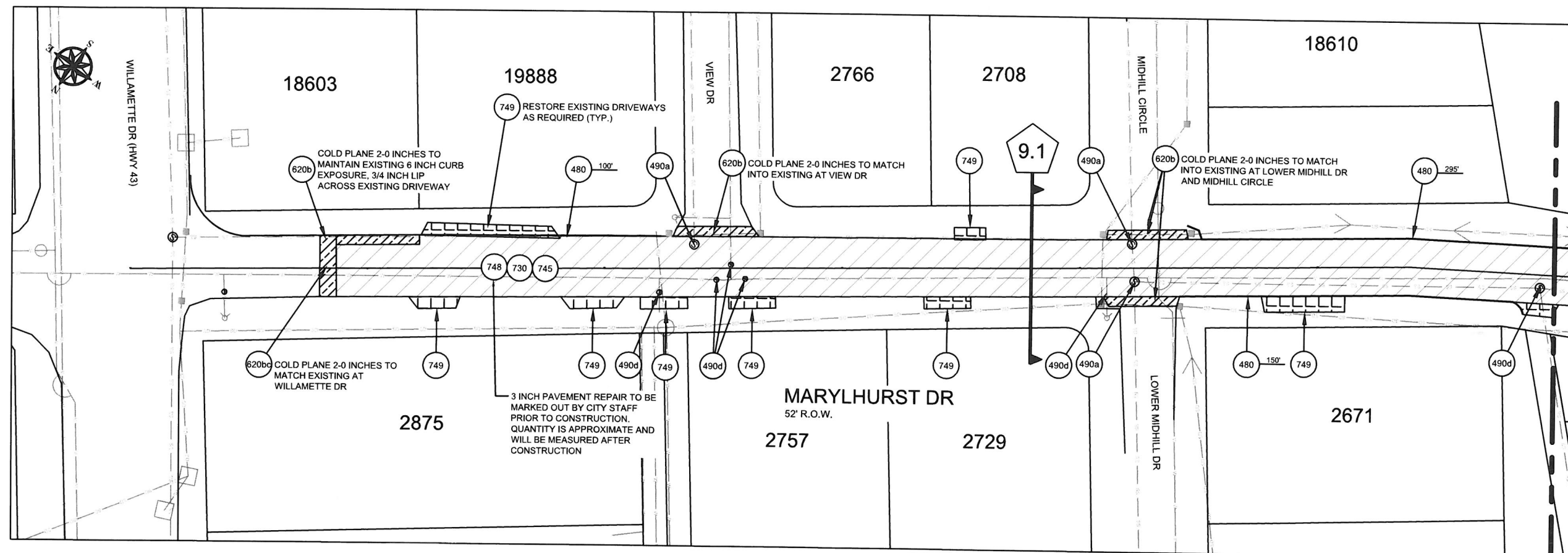
MARYLHURST DR FROM HILLCREST DR  
 TO HWY 43 (WILLAMETTE DR)

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

REVISION  
 DATE DESCRIPTION

PAVING PLAN  
 SCALE: 1" = 50'

C9.1





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

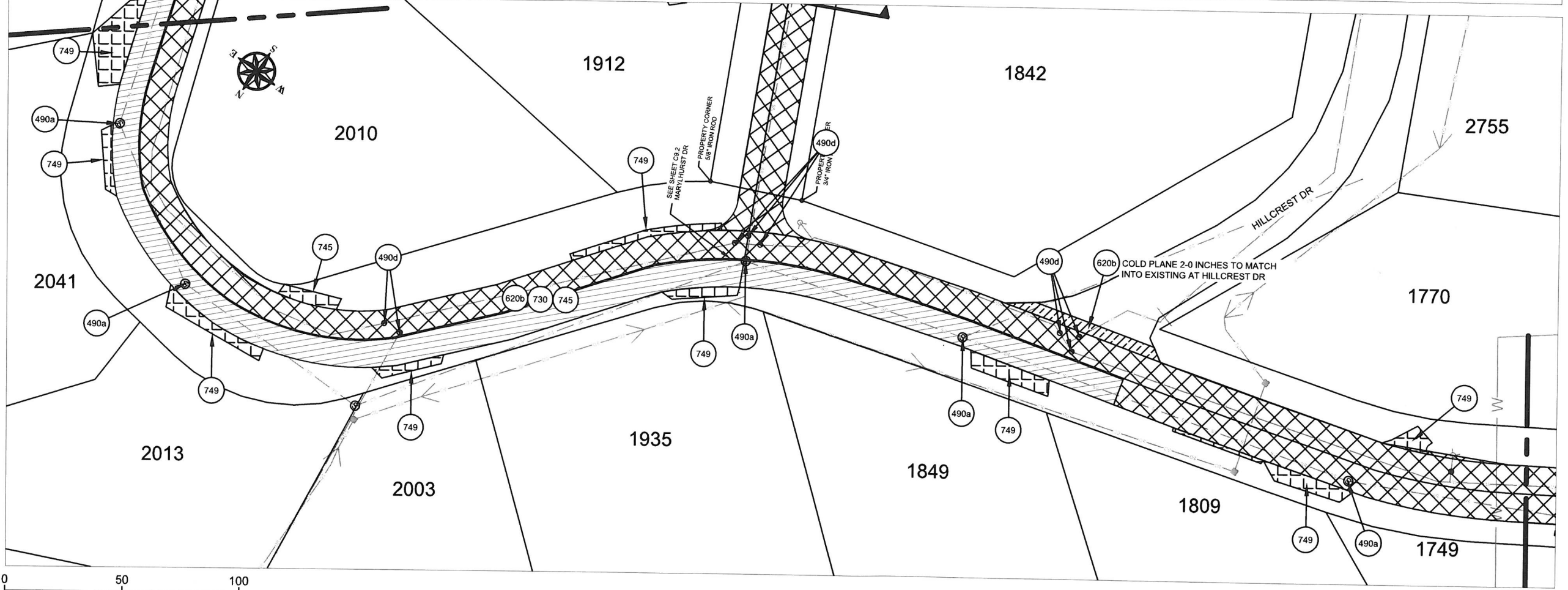
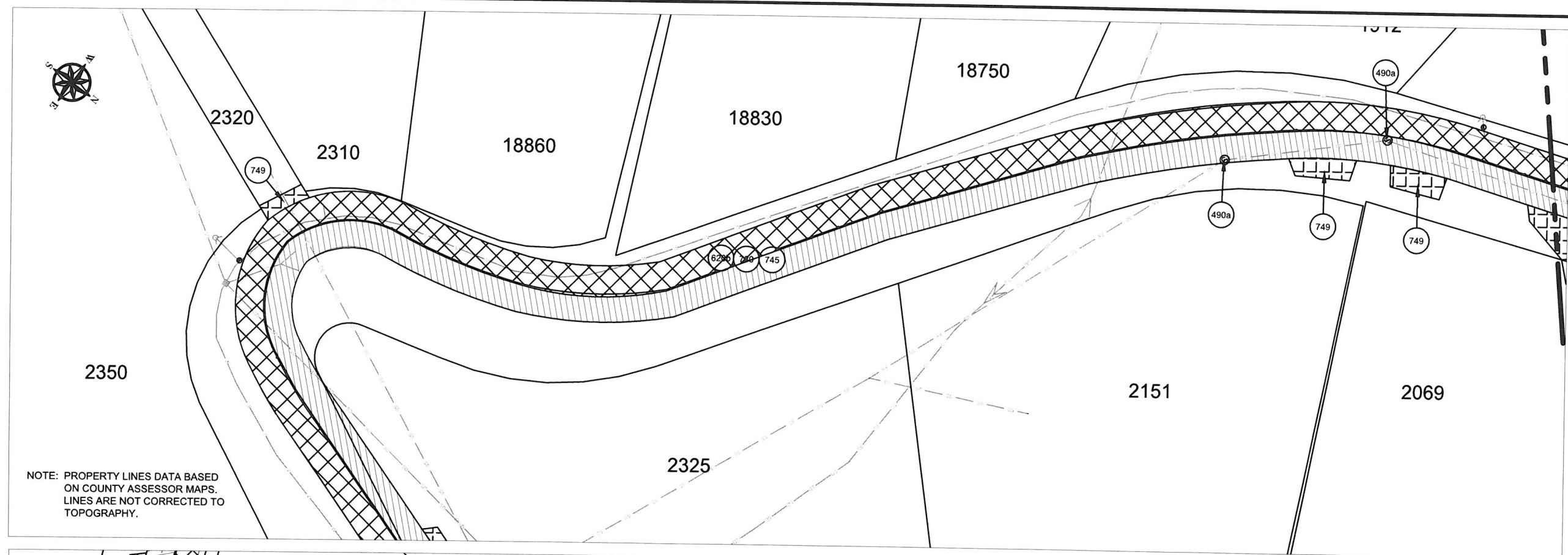
NAME: -N/A  
 ADDRESS: -N/A  
 PHONE: -N/A  
 FAX: -N/A

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

PROJECT NO.: PW-16-01  
 DESIGNED BY: 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



EXPIRES: 12/31/2017

CONTRACTOR

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

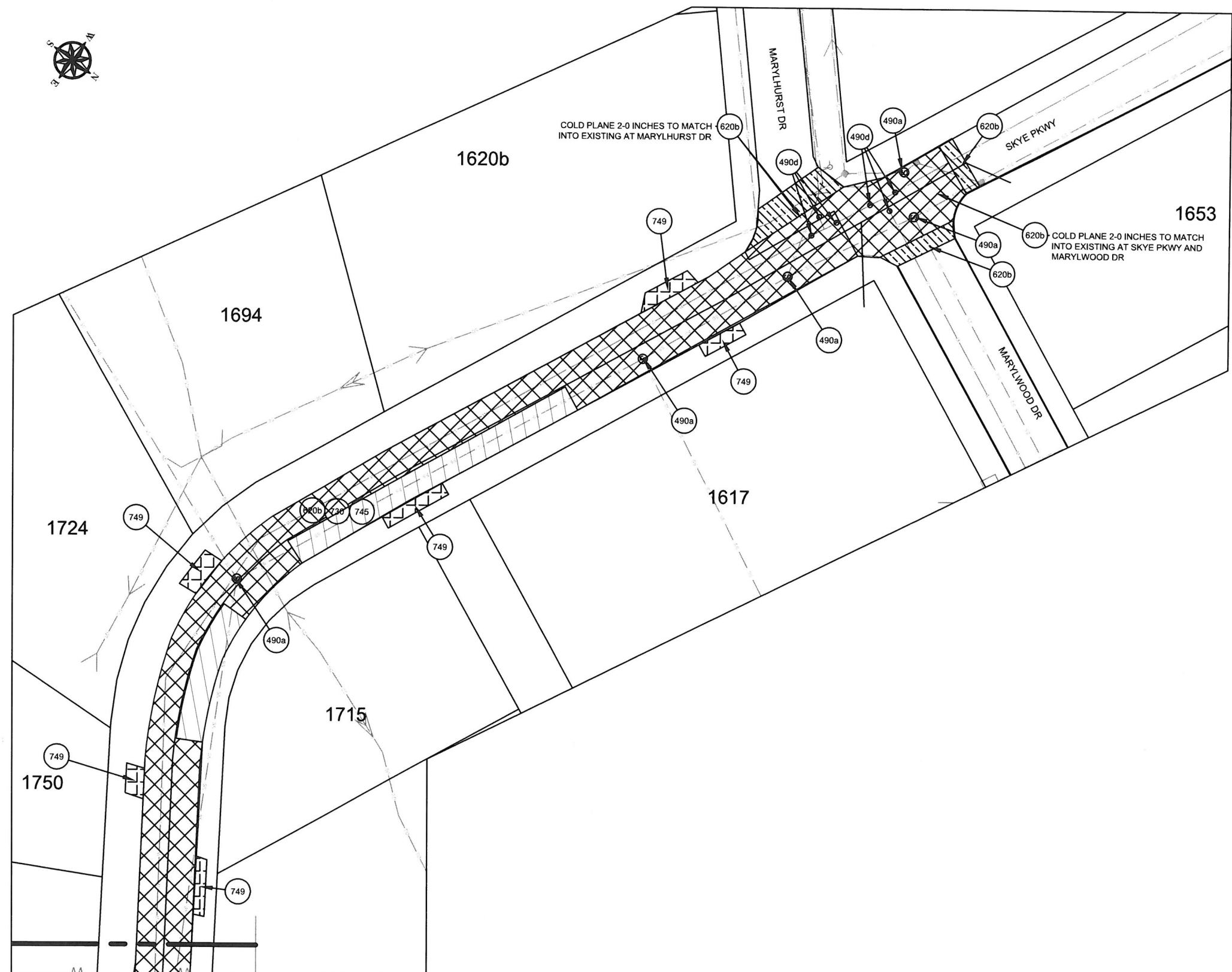
CITY OF WEST LINN  
 2016 ROAD PROGRAM  
 MARYLHURST DR FROM HILLCREST DR  
 TO HWY 43 (WILLAMETTE DR)

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'

**C9.3**





CITY OF WEST LINN  
 22500 SALAMO ROAD  
 WEST LINN, OREGON 97068  
 WWW.WESTLINNOREGON.GOV  
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EXPIRES: 12/31/2017

CONTRACTOR

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

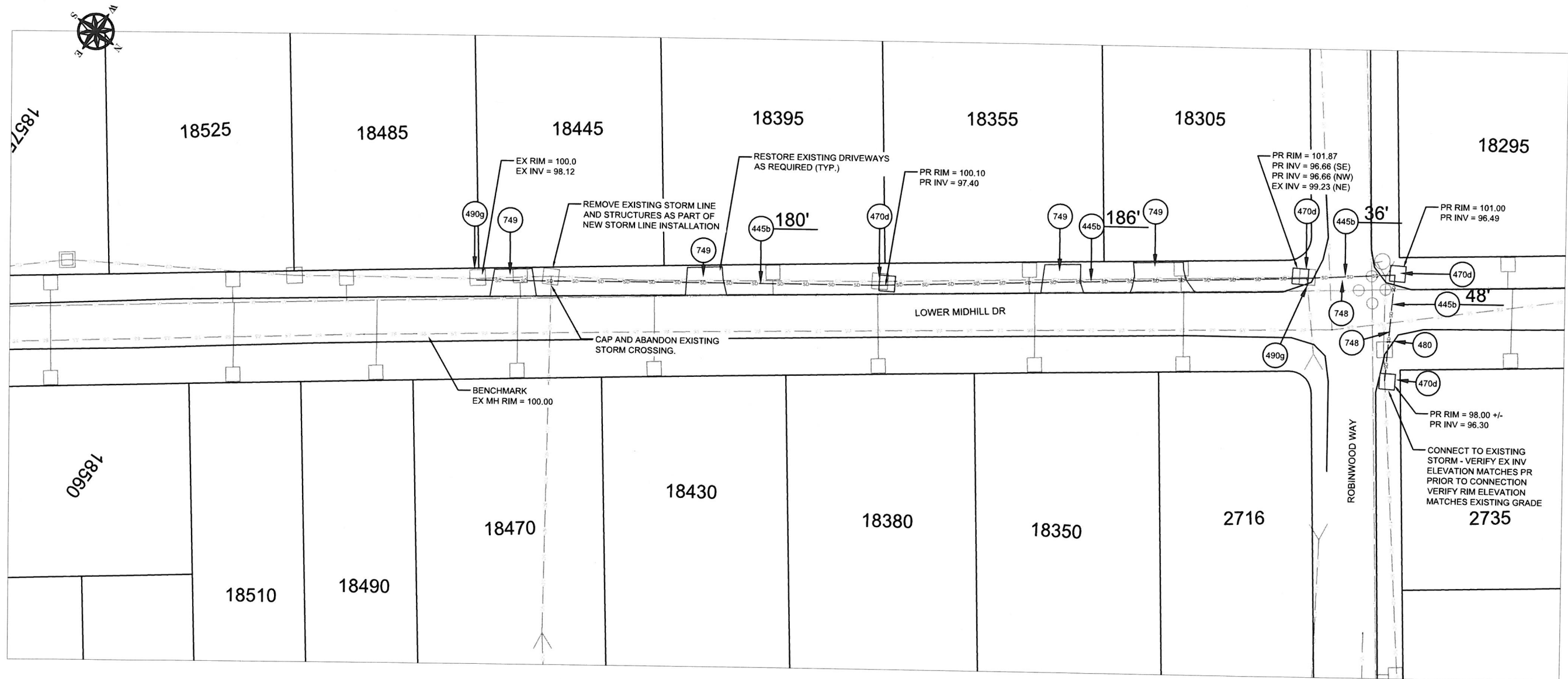
CITY OF WEST LINN  
 2016 ROAD PROGRAM  
 LOWER MIDHILL DR STORM REPLACEMENT  
 18445 LOWER MIDHILL TO ROBINWOOD WY

PROJECT NO.: PW-16-01  
 DESIGNED BY: L CALVERT  
 DRAWN BY: L CALVERT  
 CHECKED BY: ELAIS  
 DATE: 6/16/2016

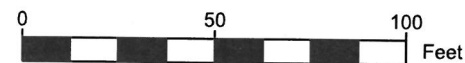
REVISION	
DATE	DESCRIPTION
06/21/2016	Add. storm work

PAVING PLAN  
 SCALE: 1" = 50'

C10.0



SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	Marylhurst Dr
445b	00445.91b	12 INCH REINFORCED CONCRETE PIPE	LF	450
470d	00470.90d	CONCRETE INLETS, TYPE G-1	EA	4
480	00480.90	DRAINAGE CURB, AC	LF	15
490g	00490.90g	CONNECTION TO EXISTING STRUCTURES	EA	2
745a	00745.90	LEVEL 2, 3/4 INCH ACP	TON	22
748	00748.90	3 INCH, ASPHALT CONCRETE PAVEMENT REPAIR	SY	98
749	00749.90a	ASPHALT APPROACHES	EA	4





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

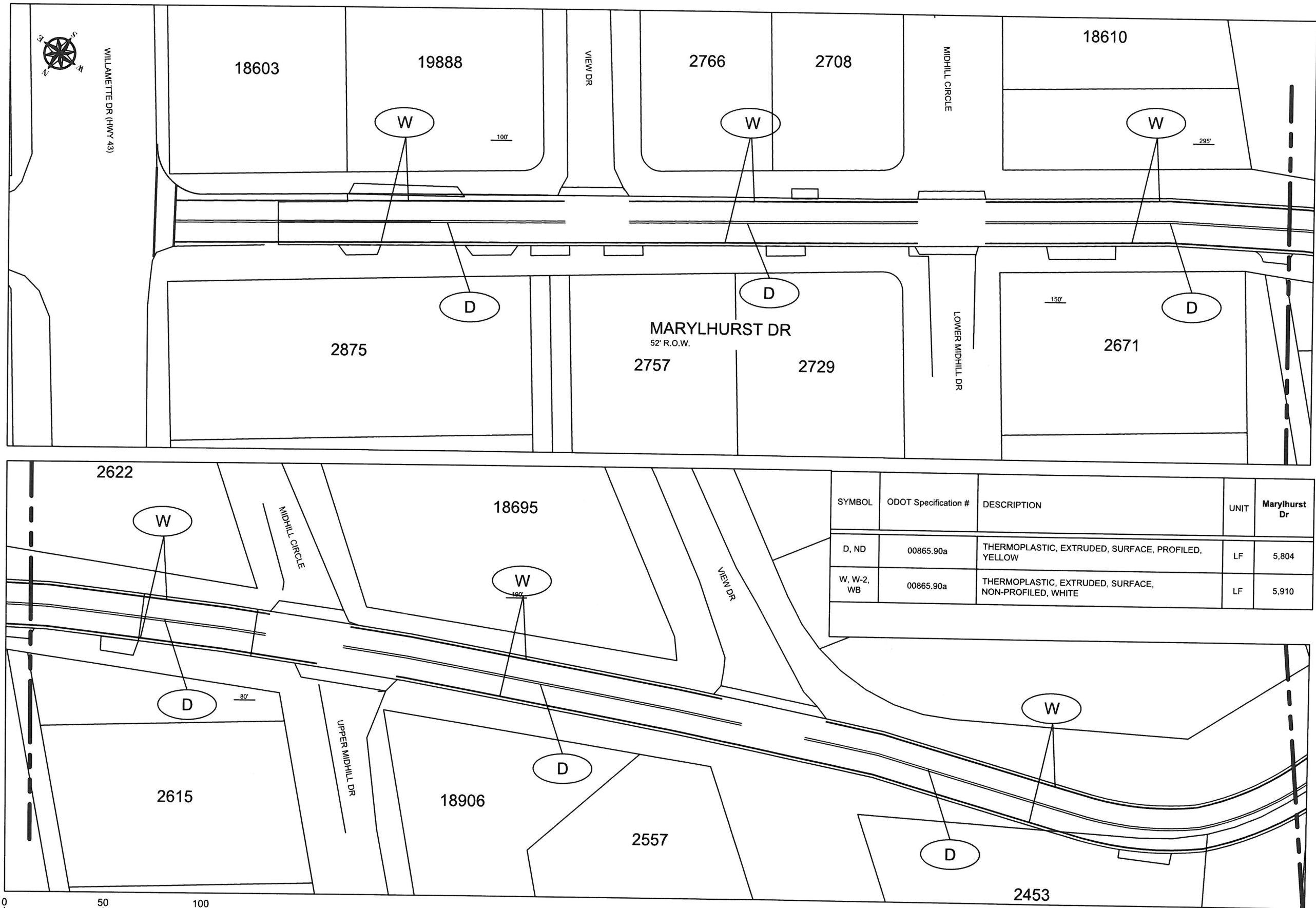
CITY OF WEST LINN  
 2016 ROAD PROGRAM

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

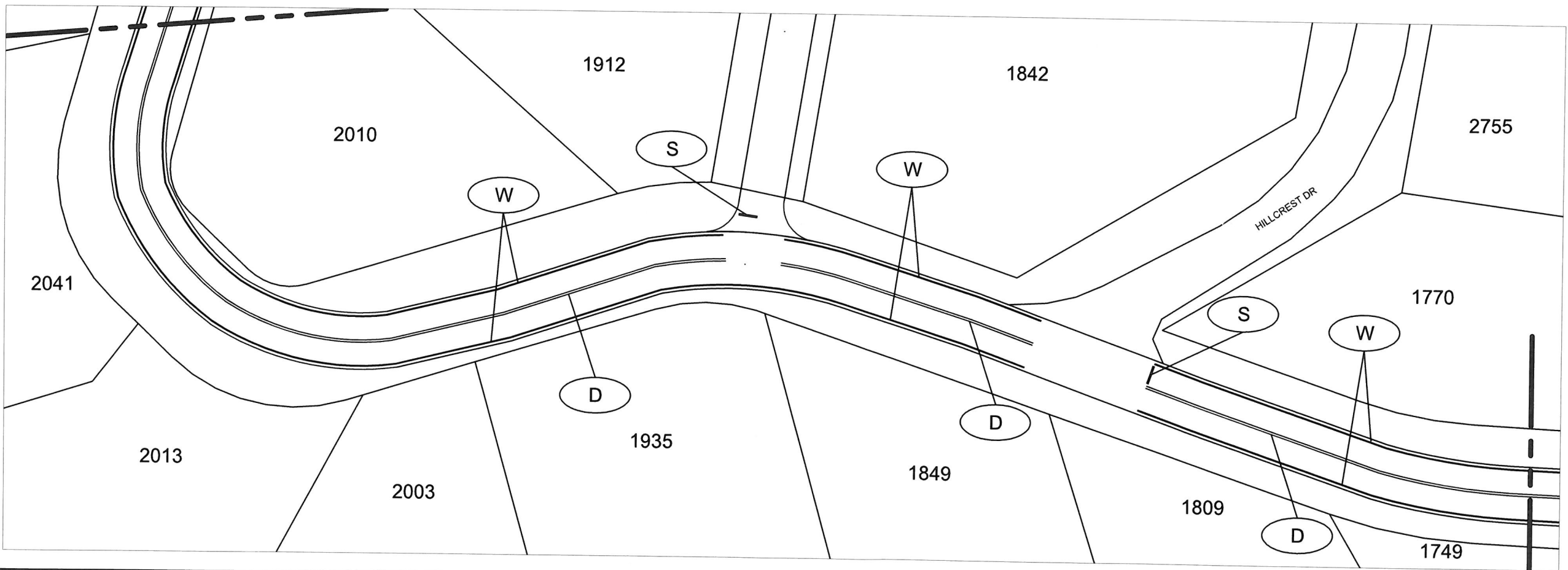
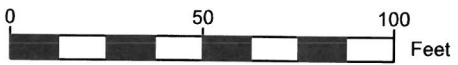
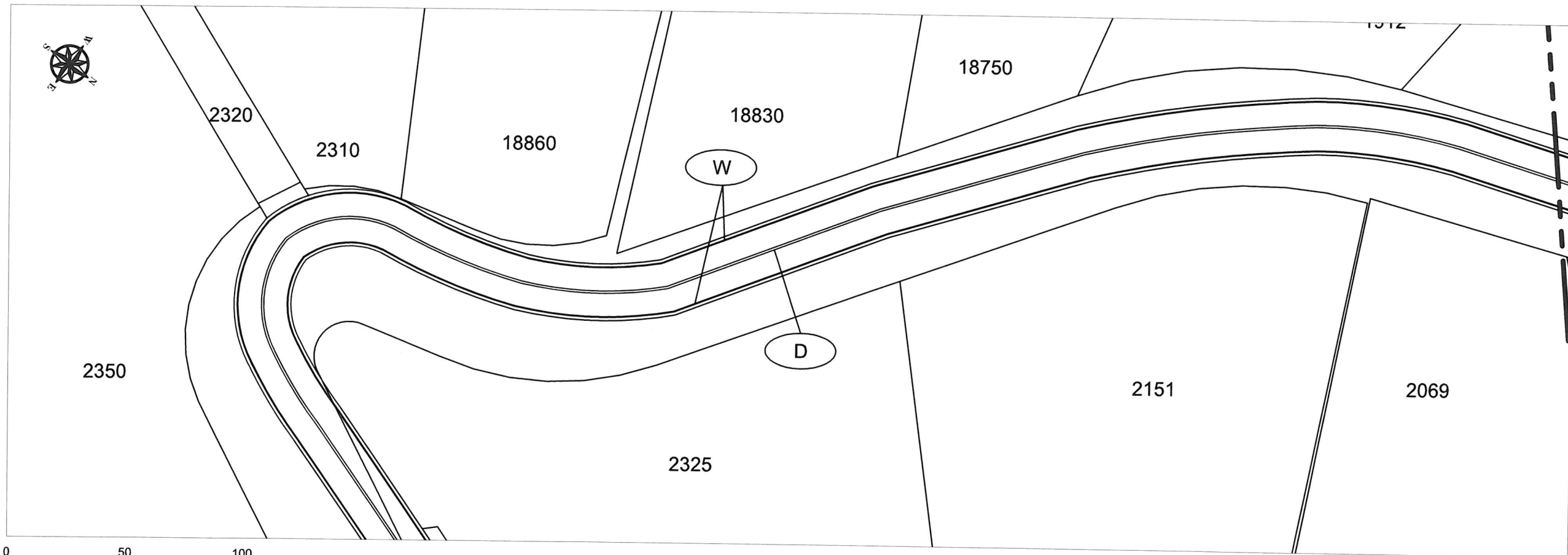
STRIPING PLAN  
 SCALE: 1" = 50'  
**S1.0**



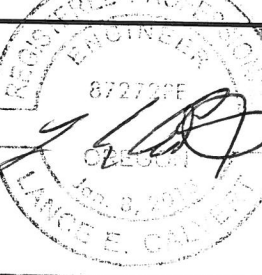
SYMBOL	ODOT Specification #	DESCRIPTION	UNIT	Marylhurst Dr
D, ND	00865.90a	THERMOPLASTIC, EXTRUDED, SURFACE, PROFILED, YELLOW	LF	5,804
W, W-2, WB	00865.90a	THERMOPLASTIC, EXTRUDED, SURFACE, NON-PROFILED, WHITE	LF	5,910







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EXPIRES: 12/31/2017

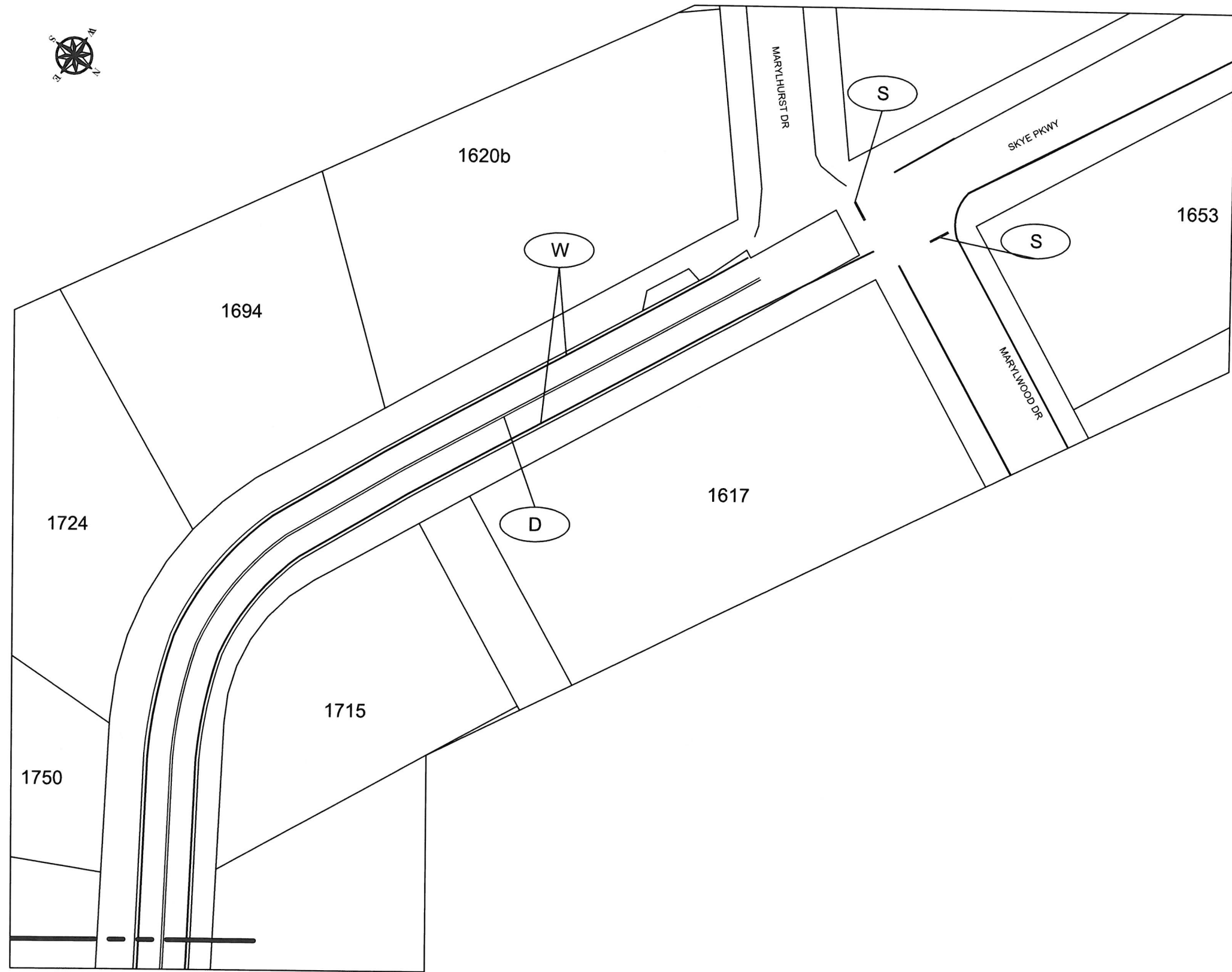
CONTRACTOR  
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 PHONE: -N/A  
 FAX: -N/A

**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

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



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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**  
 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'  
**S1.2**



CITY OF WEST LINN  
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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

PAVEMENT MARKINGS  
 HIDDEN SPRINGS

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

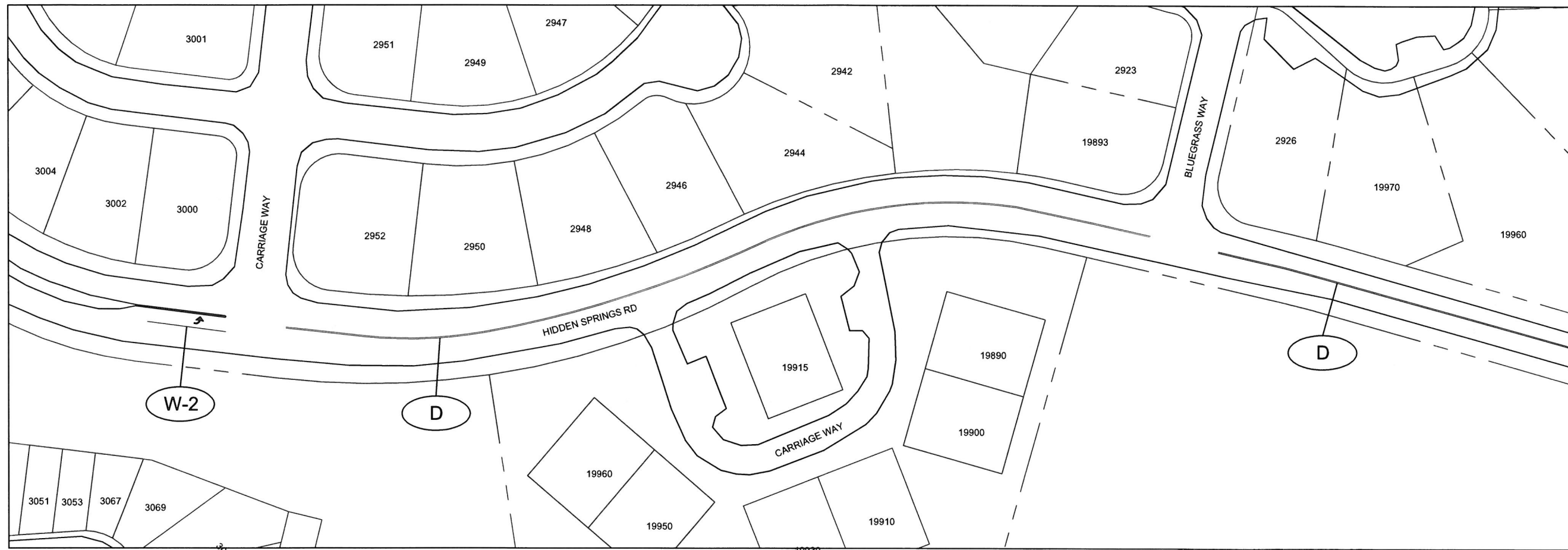
REVISION

DATE	DESCRIPTION

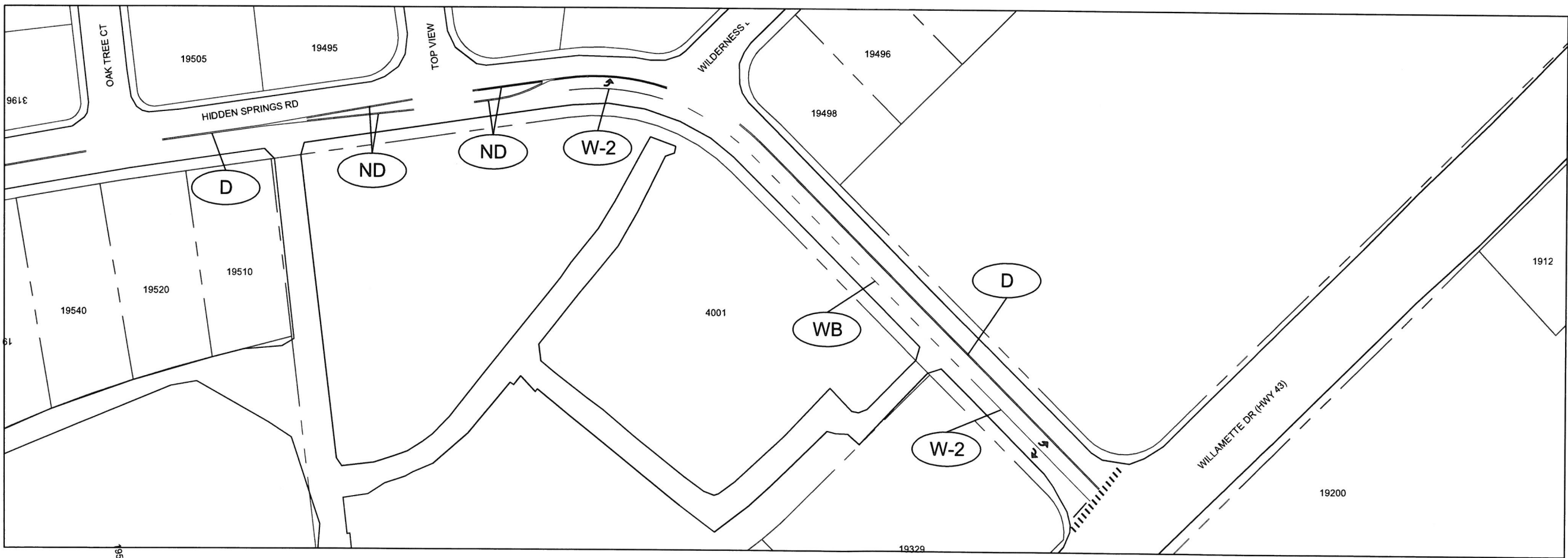
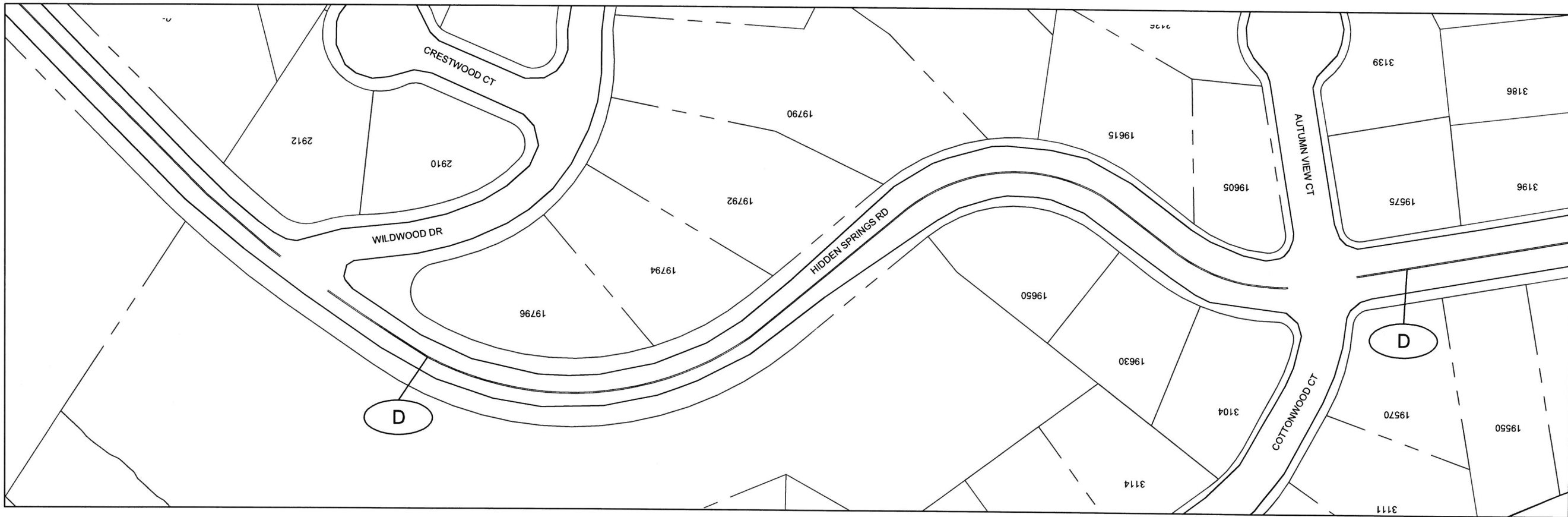
COVER SHEET

SCALE: 1" = 100'

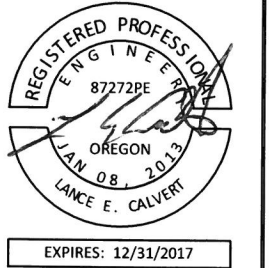
**S2.0**



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

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

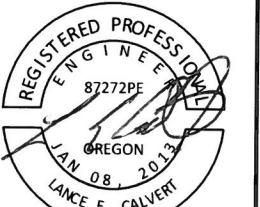
PROJECT NO.: PW-16-01  
 DESIGNED BY: L CALVERT  
 DRAWN BY: NBRENNAN  
 CHECKED BY: ELAIS  
 DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

COVER SHEET  
 SCALE: 1" = 100'  
**S2.1**



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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

PAVEMENT MARKINGS  
 HIDDEN SPRINGS

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

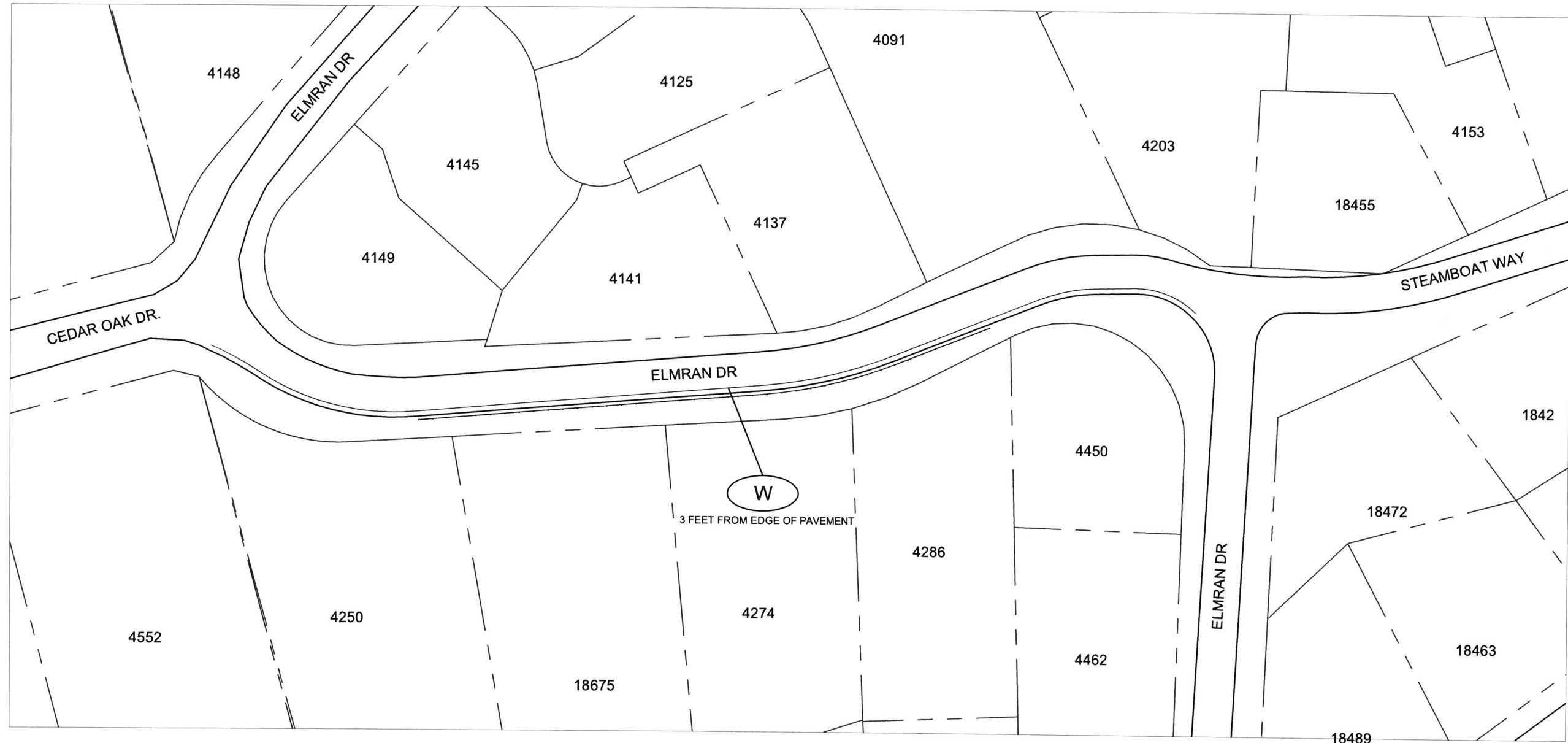
REVISION

DATE	DESCRIPTION

COVER SHEET

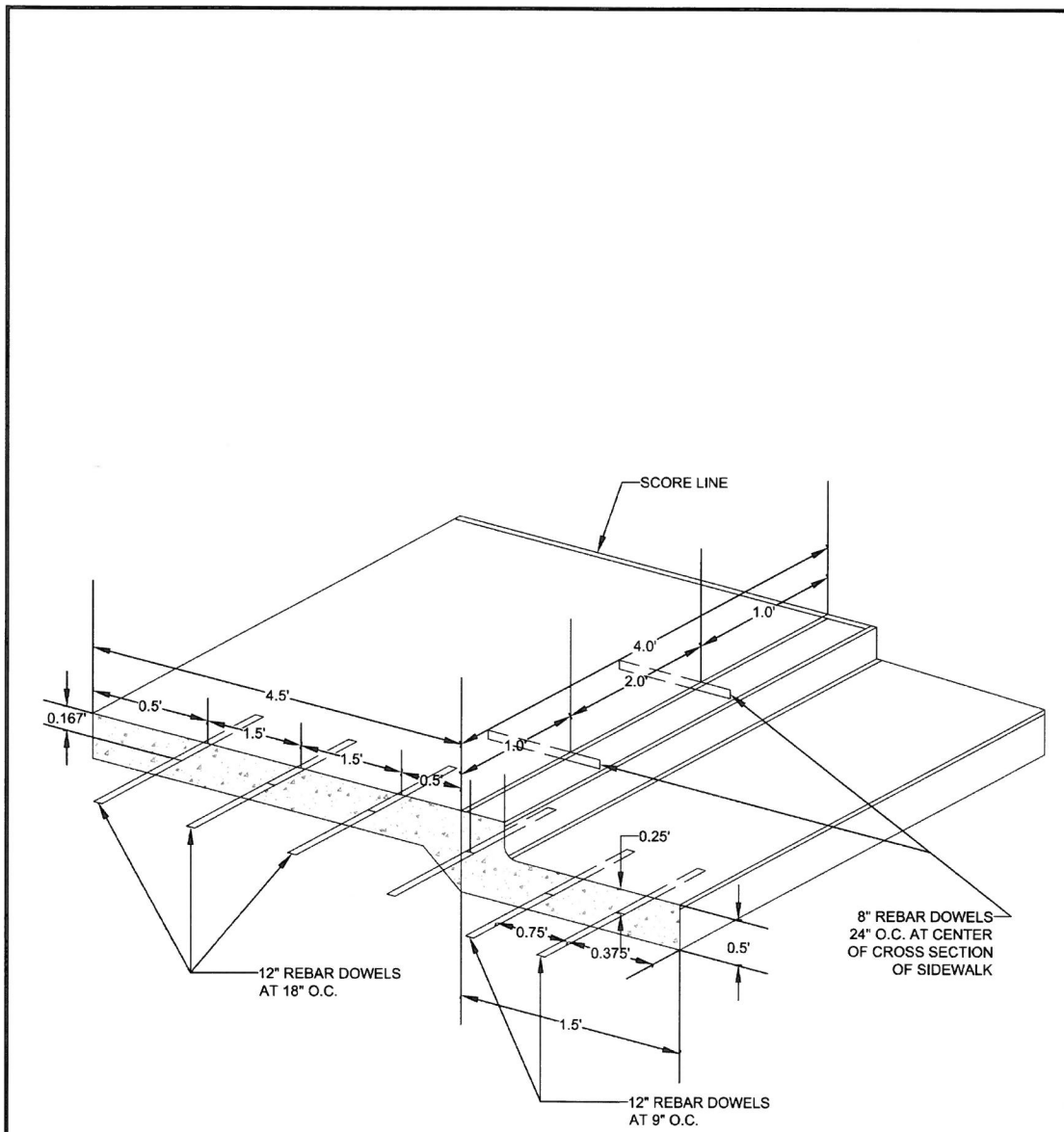
SCALE: 1" = 100'

**S3.0**



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

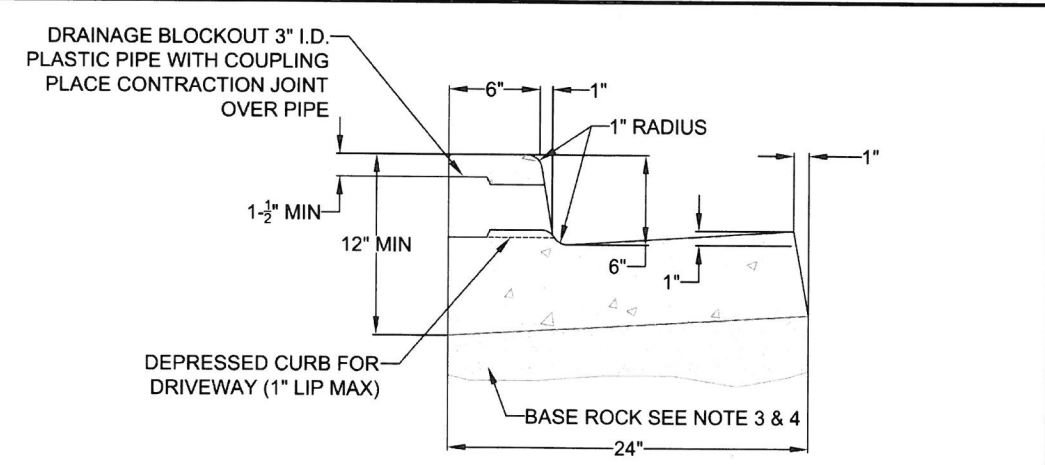
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**CURB, GUTTER AND  
SIDEWALK  
DOWELING DETAIL**

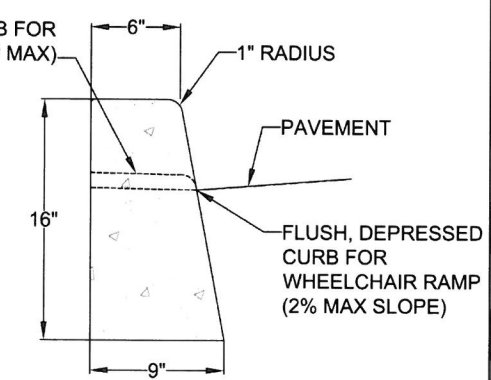
City of <b>West Linn</b>	DATE: <b>2010</b>
	DRAWING NO. <b>WL-511</b>
	FILE NO.

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FLUSH, DEPRESSED CURB FOR WHEELCHAIR  
RAMP 2% MAX SLOPE

**TYPICAL CURB AND GUTTER**



**TYPICAL STRAIGHT CURB**

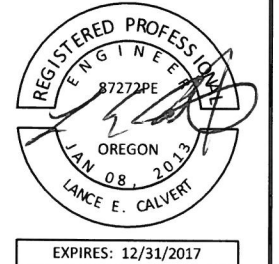
- NOTE:
1. CONCRETE SHALL HAVE A BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS
  2. CONTRACTION JOINTS:
    - A) TO BE PROVIDED:
      - AT EACH POINT OF TANGENCY
      - AT EACH COLD JOINT
      - AT EACH SIDE OF INLET STRUCTURES
      - AT BOTH SIDES OF AN APPROACH
    - B) SPACING TO BE NOT MORE THAN 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 <b>West Linn</b>	DATE: <b>2010</b>
	DRAWING NO. <b>WL-501</b>
	FILE NO.



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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: L CALVERT  
DRAWN BY: NBRENNAN  
CHECKED BY: ELAIS  
DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

STANDARD DETAILS  
**SD**



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

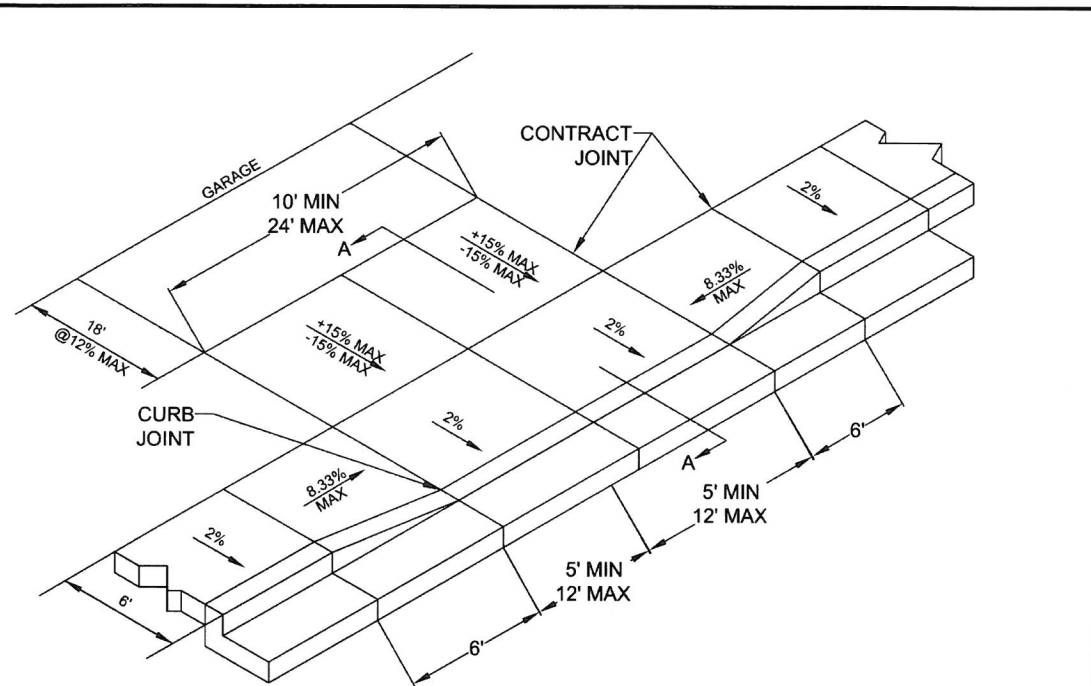
PROJECT NO.: PW-16-01  
 DESIGNED BY: LCALVERT  
 DRAWN BY: NBRENNAN  
 CHECKED BY: ELAIS  
 DATE: 5/20/2016

REVISION  
 DATE DESCRIPTION

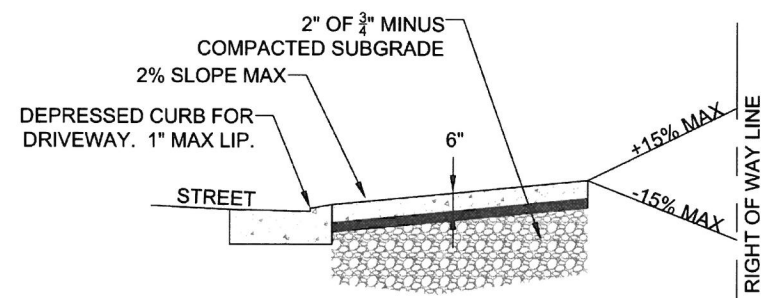
STANDARD DETAILS

SD

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SIDEWALK ADJACENT TO CURB



SECTION A-A

NOTE:

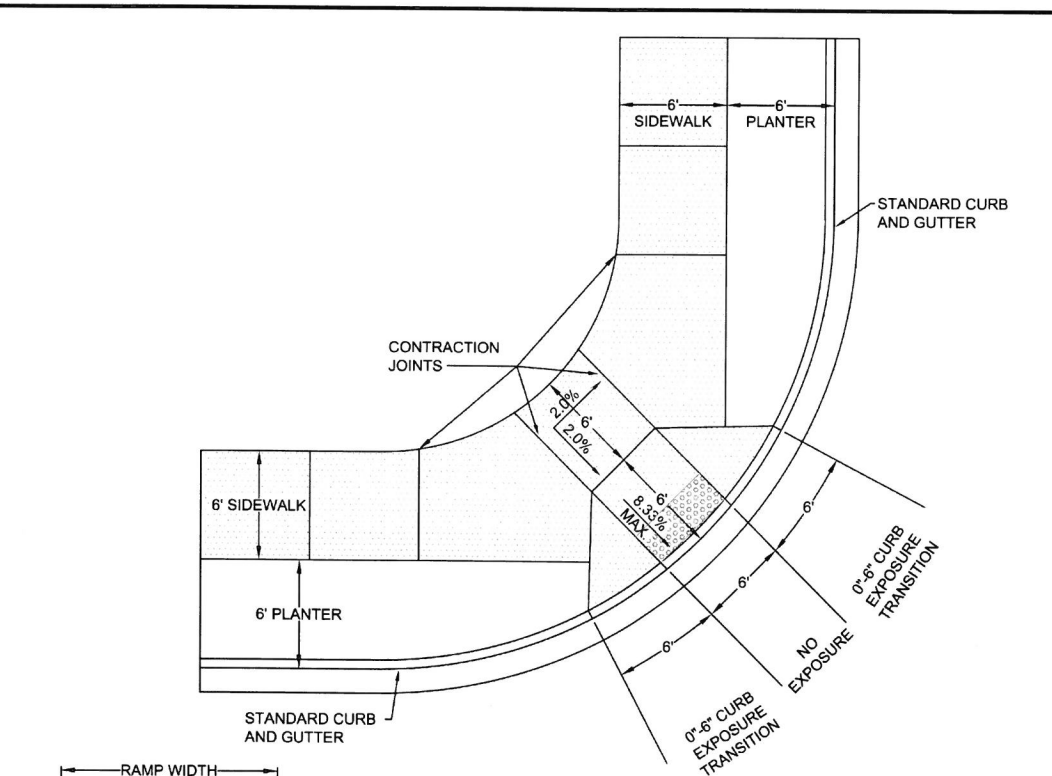
- CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS 6 SACK MIX
- CURB SHALL BE TROWELED JOINT WITH MIN. 1/2" RADIUS ALONG BACK OF CURB
- DRIVEWAY SHALL BE A MINIMUM 6" THICK
- DRIVEWAY CURB CUT SHALL COMPLY WITH THE CONDITIONS OF 5.0070, "WIDTH AND LOCATION OF CURB CUTS"
- FOR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

RESIDENTIAL DRIVEWAY  
 WITH  
 SIDEWALK ADJACENT TO CURB

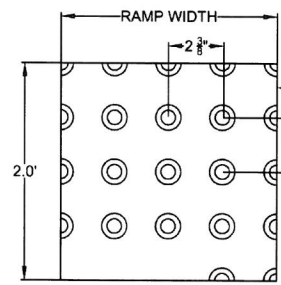


DATE: 2010  
 DRAWING NO. WL-503B  
 FILE NO.

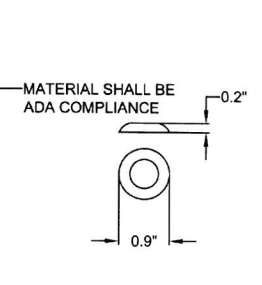
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RAMP TEXTURE PATTERN  
 DETAIL



TRUNCATED DOME  
 DETAIL



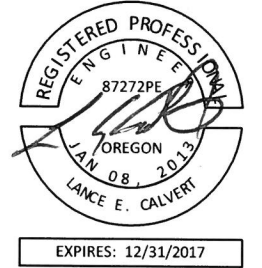
NOTE:

- LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
- RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
- TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET.
- TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
- THE GUTTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
- 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).
- CONCRETE STRENGTH SHALL BE 3300 PSI.
- PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
- NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.
- WHEN EITHER OPPOSING CURB RAMP HAS AN EXISTING TWIN RAMP, USE DETAIL WL-507B.

SINGLE CURB RAMP  
 (ALLOWED WITH CITY  
 ENGINEER APPROVAL ONLY)



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



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

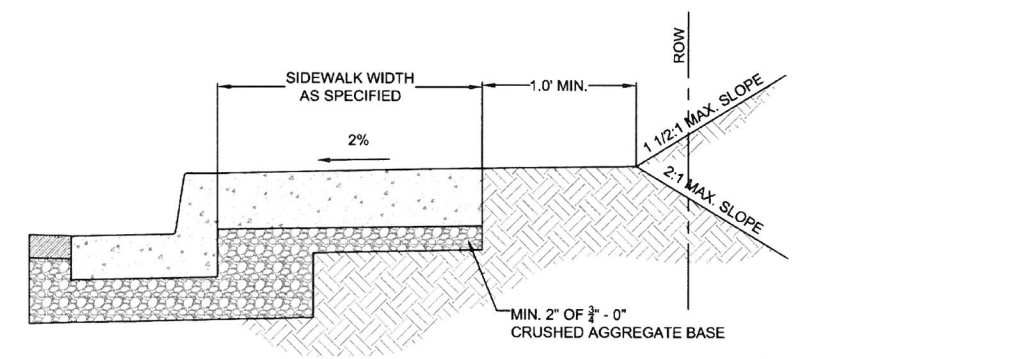
CITY OF WEST LINN  
 2016 ROAD PROGRAM  
 WEST LINN STANDARD DETAILS

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

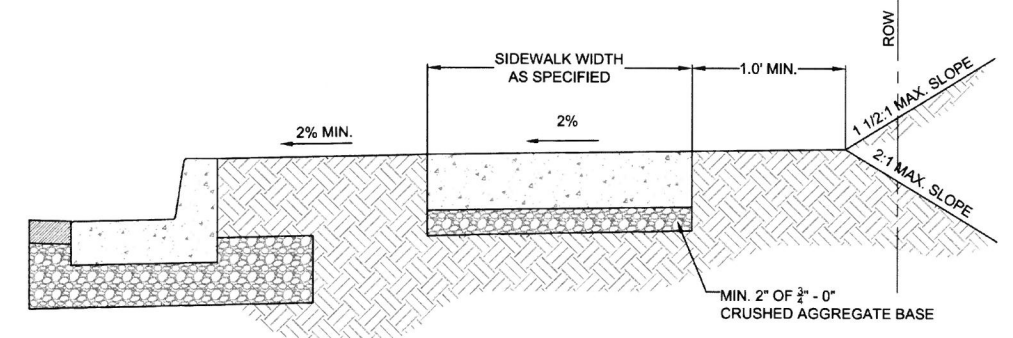
REVISION	DATE	DESCRIPTION

STANDARD DETAILS  
 SD

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TYPICAL CURB TIGHT SIDEWALK



SIDEWALK AWAY FROM CURB

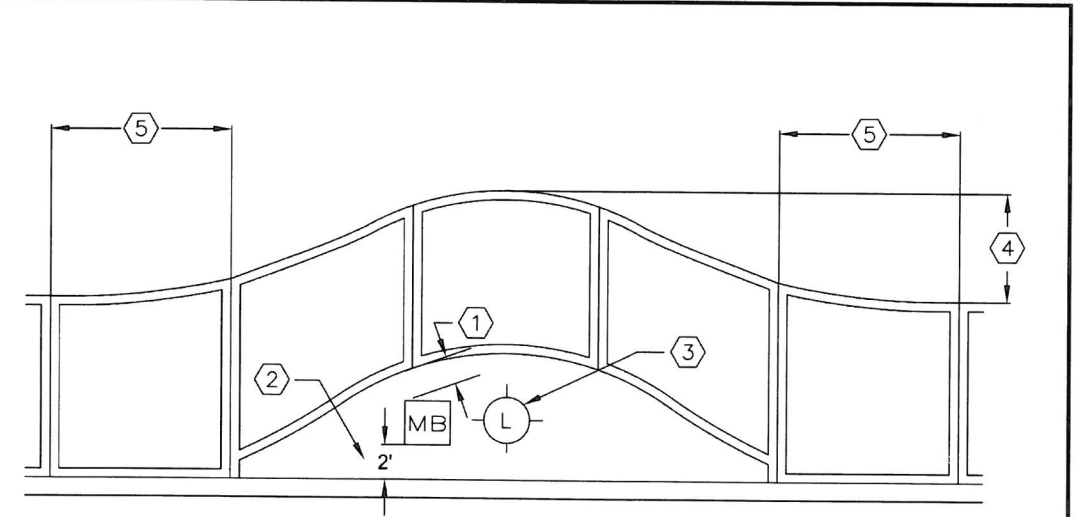
NOTE:

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.

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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:

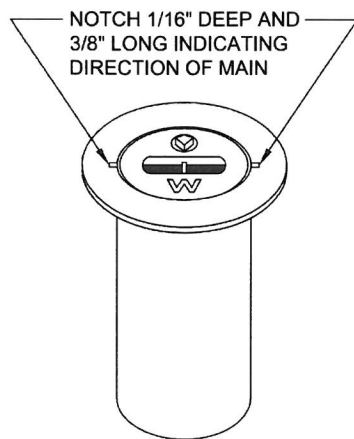
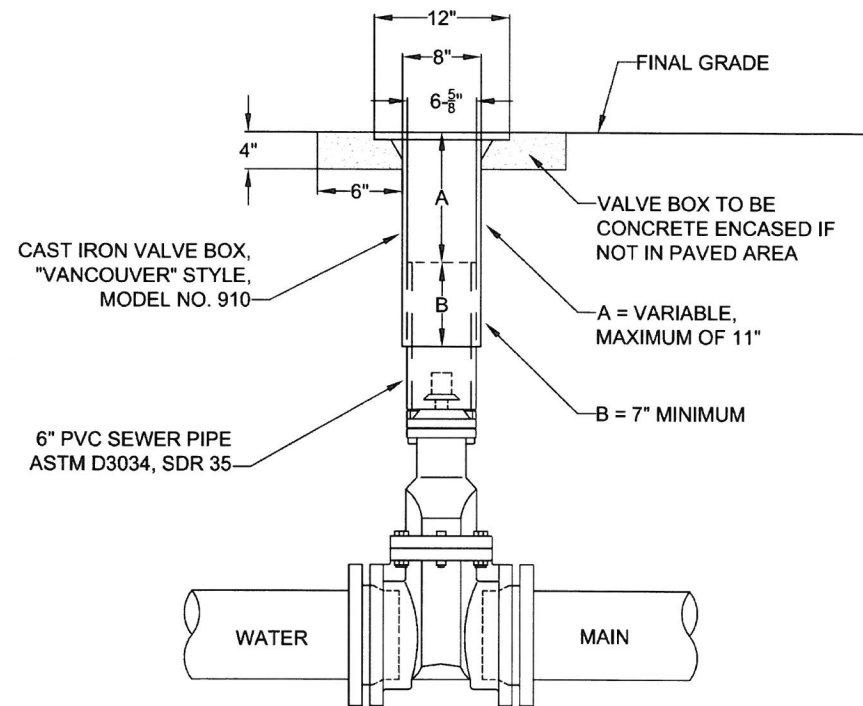
1. SIDEWALKS TO BE RE-ROUTED AROUND ALL LIGHT POLES, MAILBOXES, & FIRE HYDRANTS THAT EXIST IN THE SIDEWALK AREA.
2. MAILBOXES SHALL NOT BE INSTALLED ADJACENT TO FIRE HYDRANTS.
3. SIDEWALKS SHALL NOT BE RE-ROUTED IF EXISTING METER BOXES, UTILITY POLES, ETC., WILL BE IN RE-ROUTED SIDEWALK. A MINIMUM UNOBSTRUCTED 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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"VANCOUVER"  
18" TALL VALVE BOX

**NOTE:**

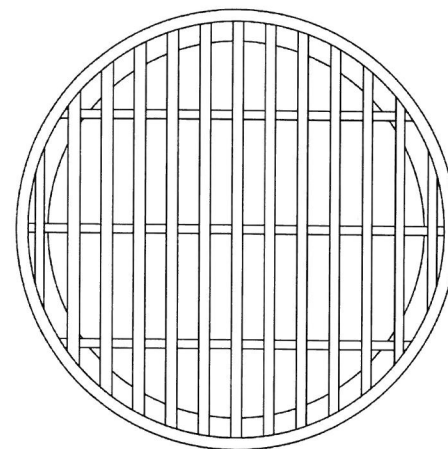
1. VALVE BOXES SHALL BE CENTERED DIRECTLY OVER THE VALVE NUT IN A VERTICAL POSITION.
2. VALVE BOX TOP SHALL BE ADJUSTED TO MEET FINISHED GRADE.
3. PVC SHALL BE ONE CONTINUOUS PIECE-NO BELLS OR COUPLERS.
4. ON VALVES 8" AND LARGER, PVC SHALL BE NOTCHED OVER VALVE PACKING BOLTS SO PVC SITS ON BONNET.

**STANDARD VALVE BOX  
DETAIL**

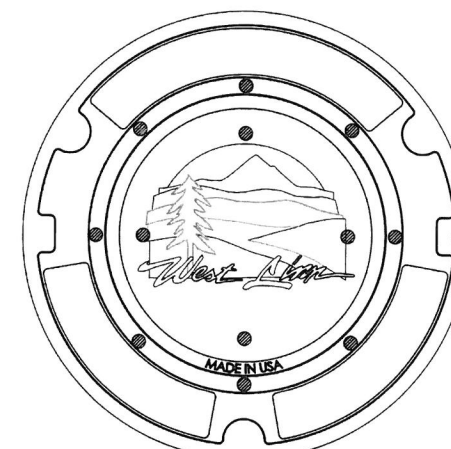


DATE: 2010  
DRAWING NO. WL-411  
FILE NO.

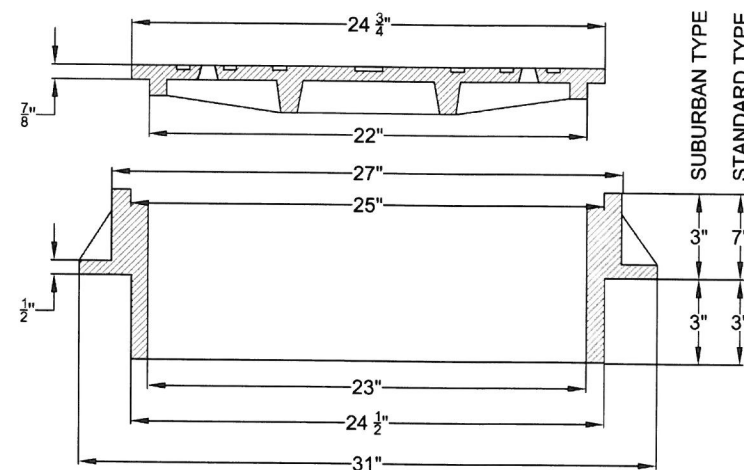
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**GRATE**



**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**



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



CITY OF WEST LINN  
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WEST LINN, OREGON 97068  
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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**

**WEST LINN STANDARD DETAILS**

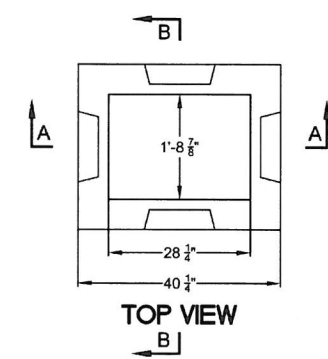
PROJECT NO.: PW-16-01  
DESIGNED BY: LCALVERT  
DRAWN BY: NBRENNAN  
CHECKED BY: ELAIS  
DATE: 5/20/2016

REVISION  
DATE DESCRIPTION

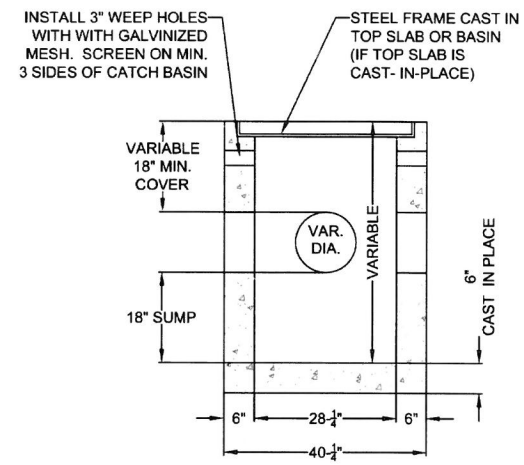
STANDARD DETAILS

**SD**

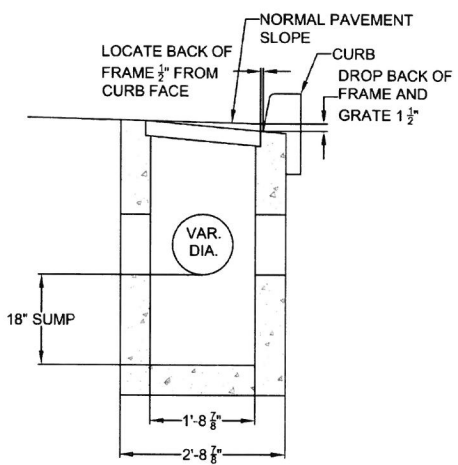
THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



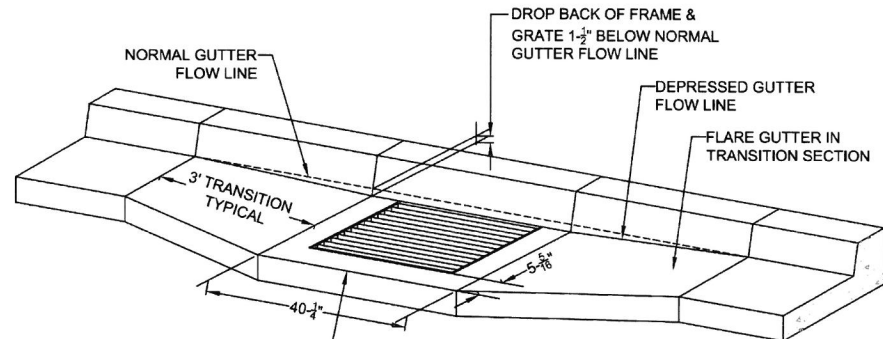
- NOTE:
1. CONCRETE STRENGTH SHALL BE 3300 PSI.
  2. PRECAST BASE WALLS SHALL BE A MINIMUM 4" THICK. CAST-IN-PLACE BASE WALLS SHALL BE 6" THICK.



SECTION A-A



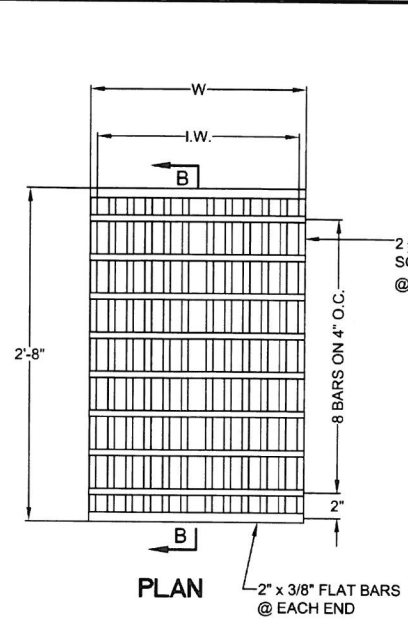
SECTION B-B



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.

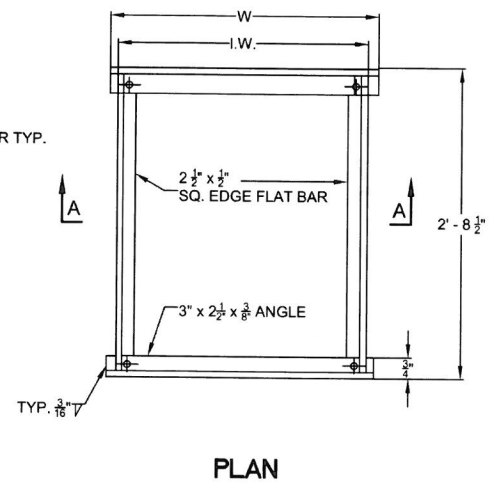
**TYPE G1 CATCH BASIN WITH SUMP**

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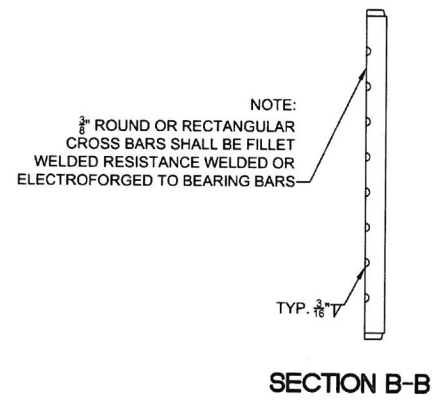
PLAN

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



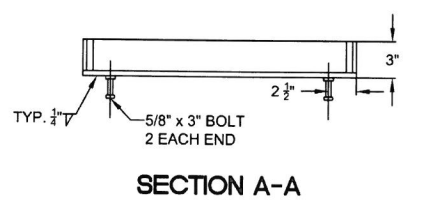
PLAN

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



SECTION B-B

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



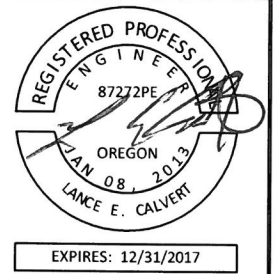
SECTION A-A

**FRAME AND GRATE FOR GUTTER AND CURB INLET**

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



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

CITY OF WEST LINN  
 2016 ROAD PROGRAM

WEST LINN STANDARD DETAILS

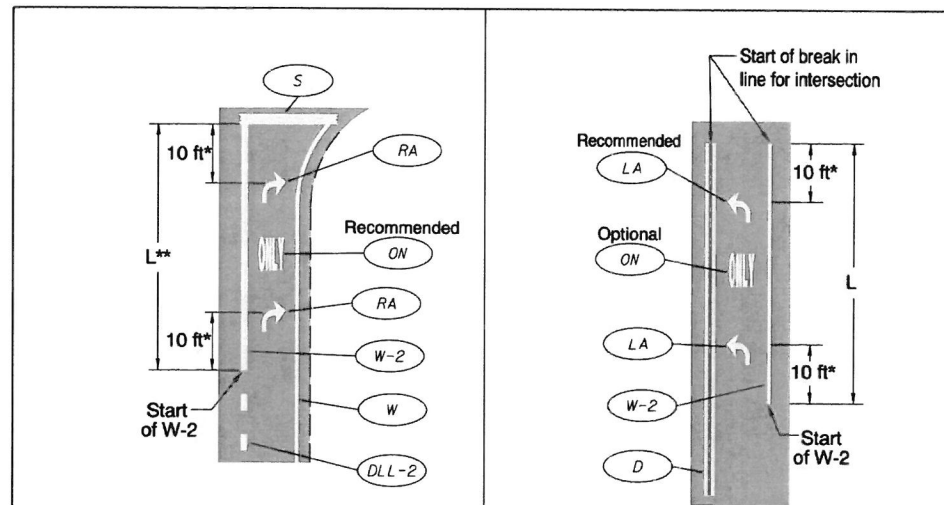
PROJECT NO.: PW-16-01  
 DESIGNED BY: LCALVERT  
 DRAWN BY: NBRENNAN  
 CHECKED BY: ELAIS  
 DATE: 5/20/2016

REVISION	
DATE	DESCRIPTION

STANDARD DETAILS

SD

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

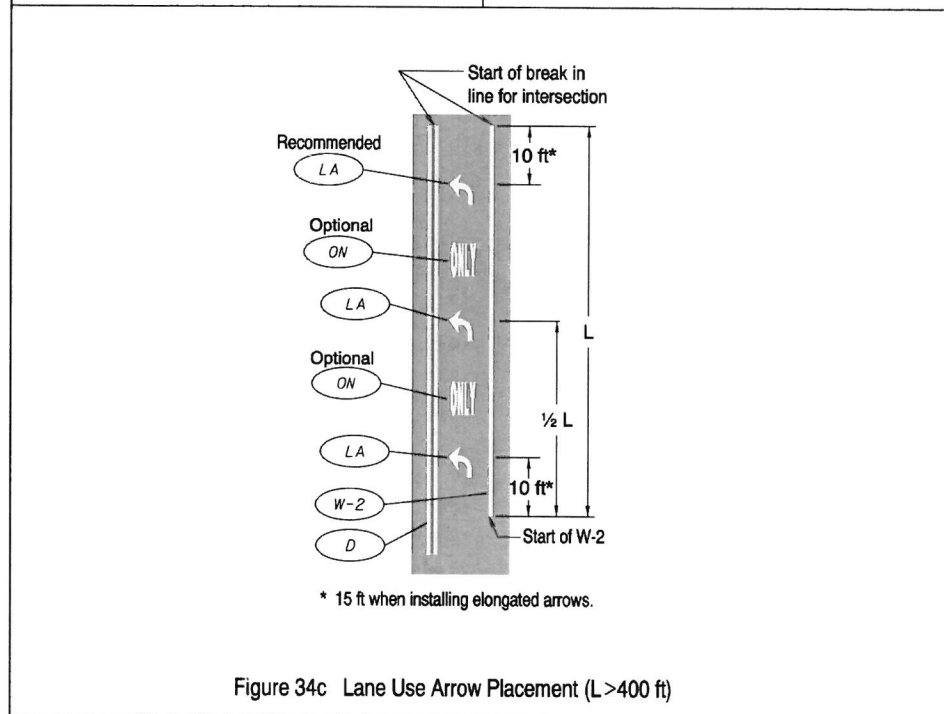


\* 15 ft when installing elongated arrows.

\*\* When L is greater than 400 ft, install 3rd lane use arrow at 1/3 L as shown in Figure 34c.

Figure 34a Lane Use Arrow Placement (Drop Lane)

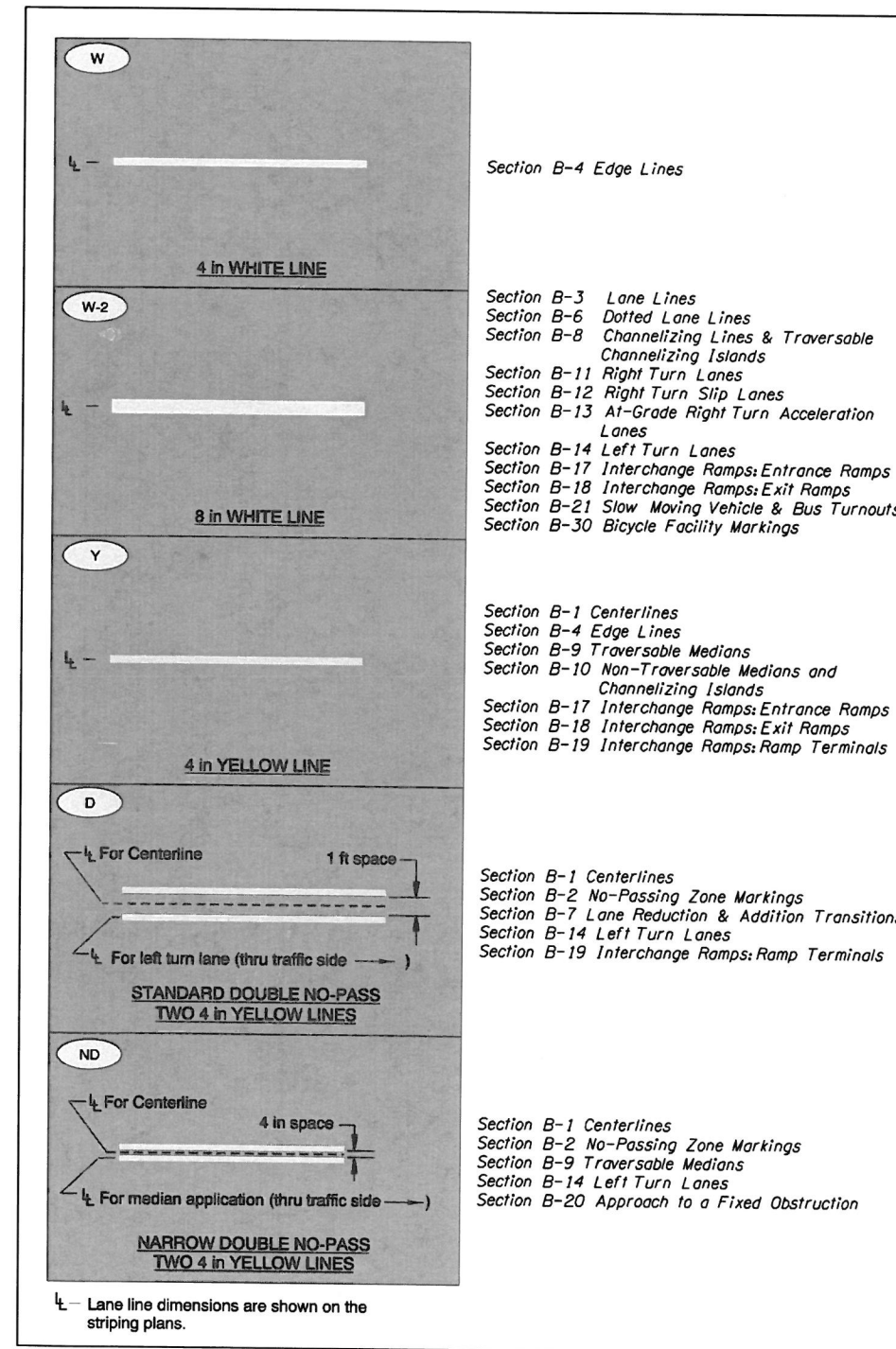
Figure 34b Lane Use Arrow Placement (L ≤ 400 ft)



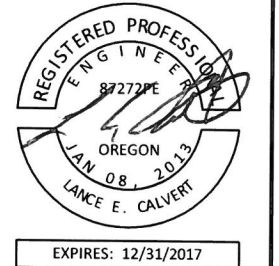
\* 15 ft when installing elongated arrows.

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

Appendix D: Bubble Note Index



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

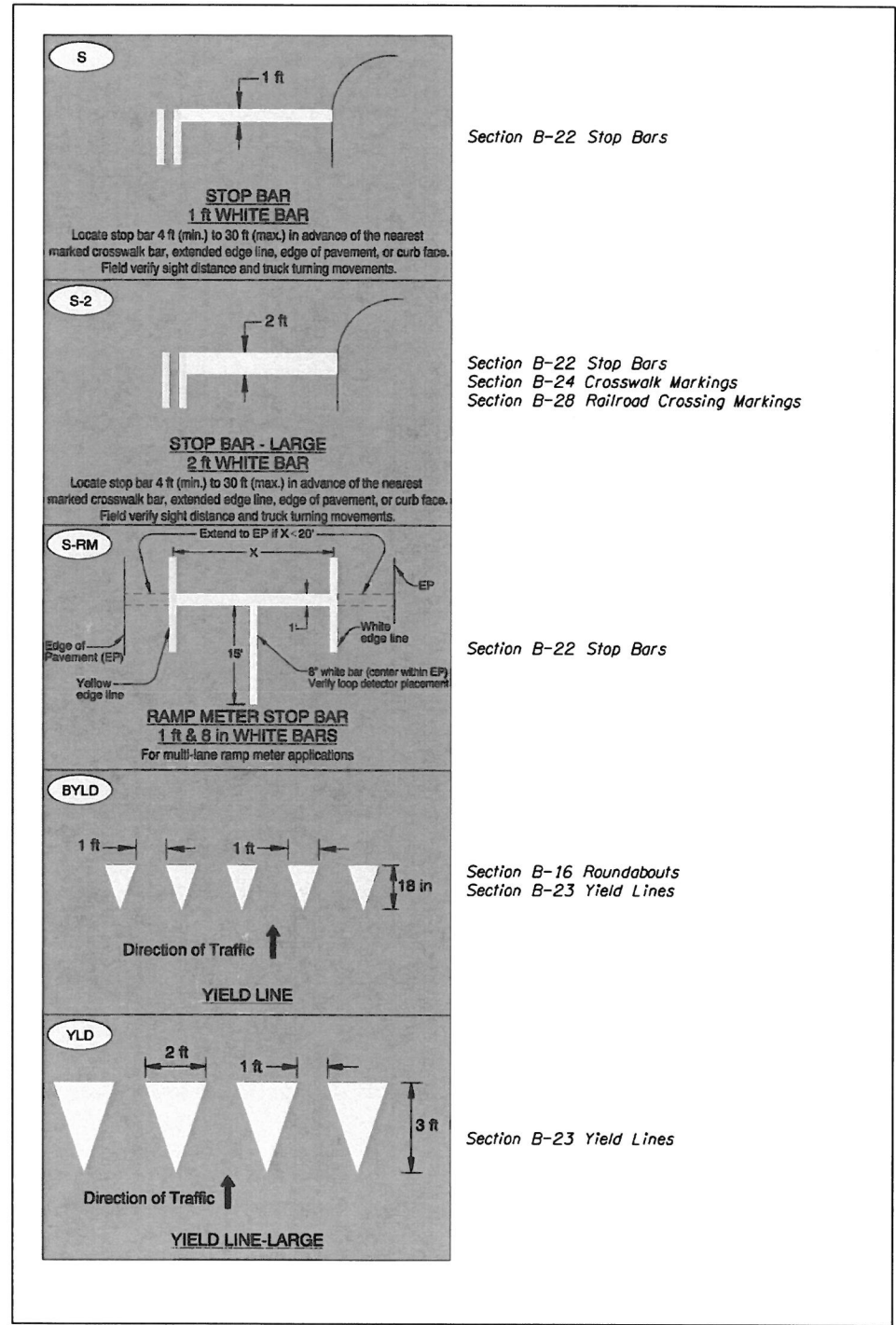
CITY OF WEST LINN  
2016 ROAD PROGRAM  
WEST LINN STANDARD DETAILS

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

REVISION	
DATE	DESCRIPTION

STANDARD DETAILS

SD



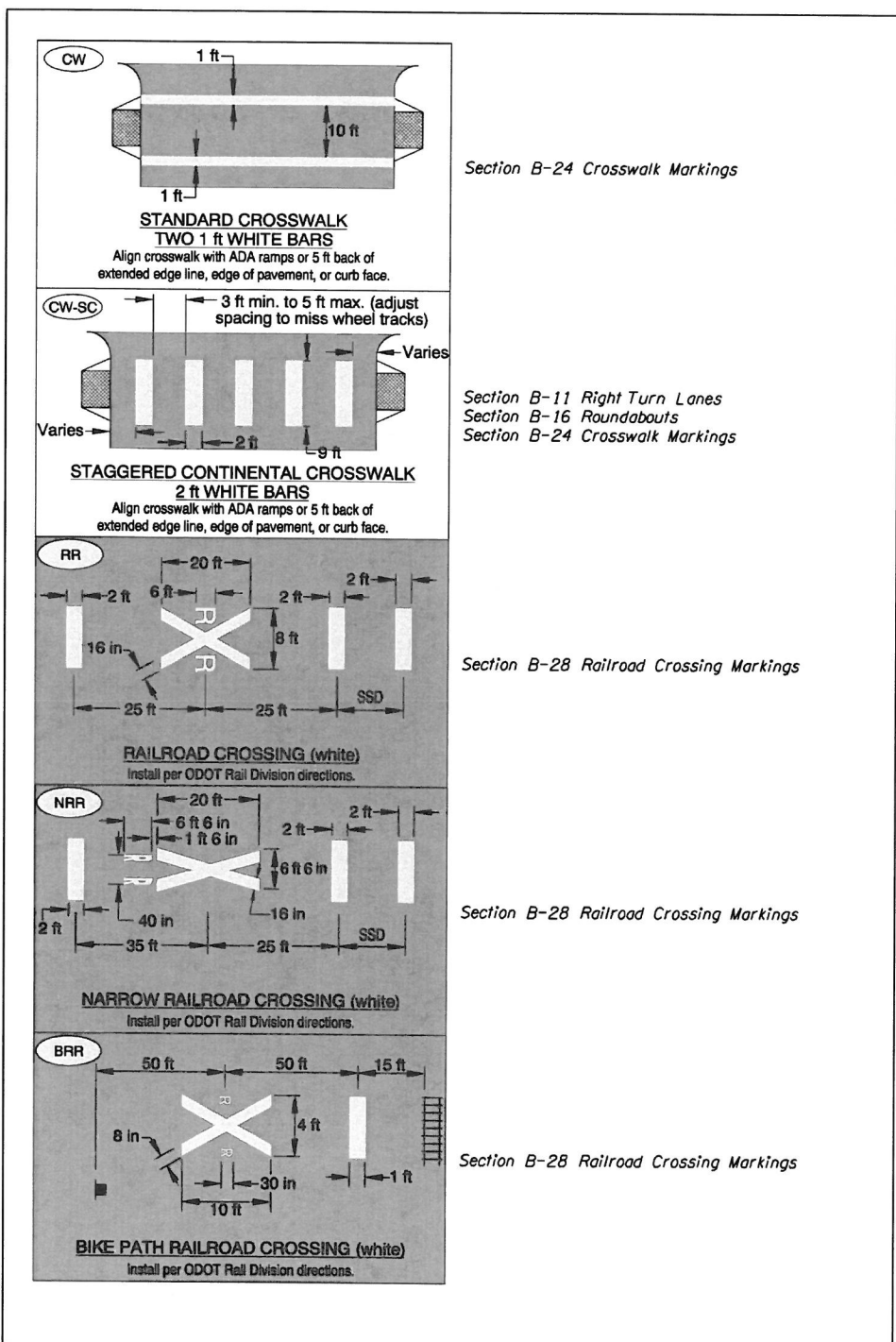
Section B-22 Stop Bars

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

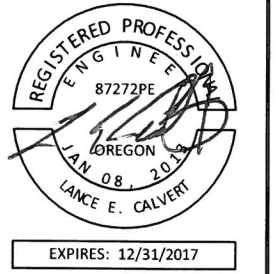
Section B-28 Railroad Crossing Markings

Section B-28 Railroad Crossing Markings

Section B-28 Railroad Crossing Markings



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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**



EXPIRES: 12/31/2017

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

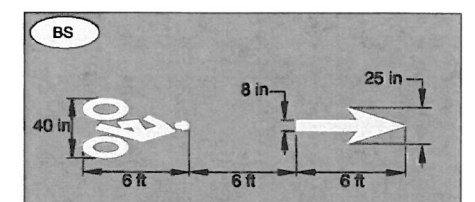
CITY OF WEST LINN  
 2016 ROAD PROGRAM  
 WEST LINN STANDARD DETAILS

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

REVISION	
DATE	DESCRIPTION

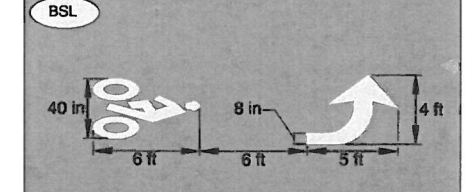
STANDARD DETAILS

SD



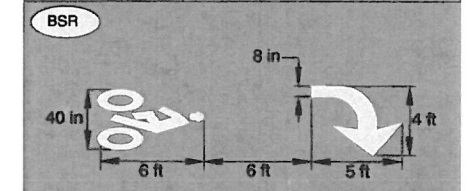
Section B-30 Bicycle Facility Markings

BIKE LANE STENCIL STANDARD (white)



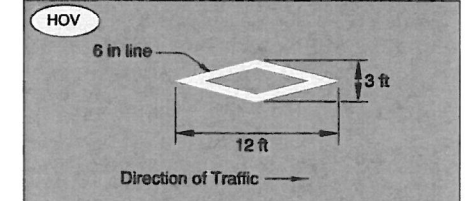
Section B-30 Bicycle Facility Markings

BIKE LEFT TURN STENCIL (white)



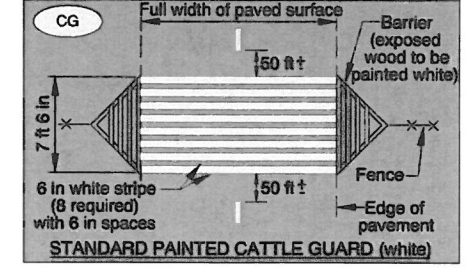
Section B-30 Bicycle Facility Markings

BIKE RIGHT TURN STENCIL (white)



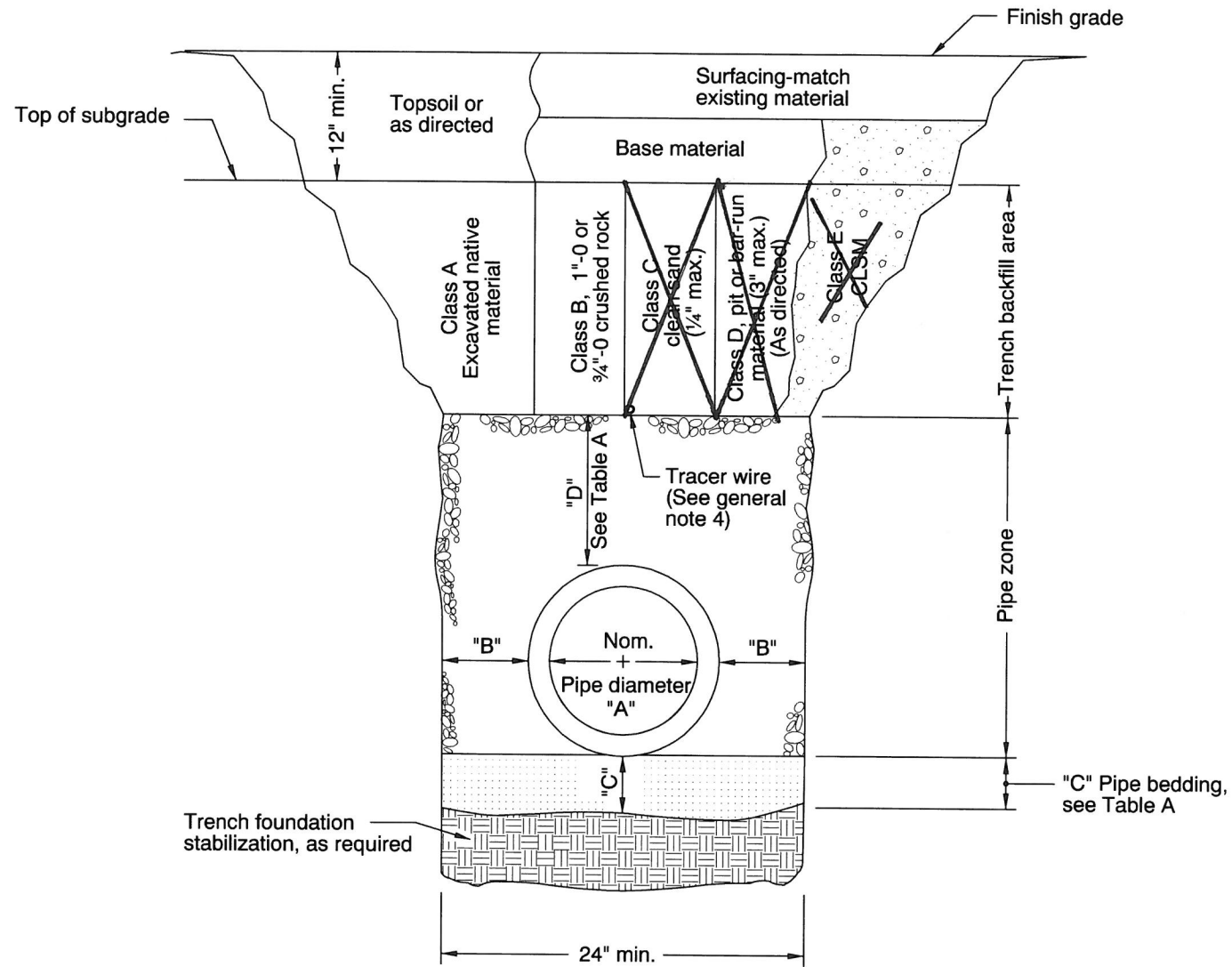
Section B-29 Preferential Lane Markings

HIGH-OCCUPANCY VEHICLE DIAMOND DETAIL (white)



Section B-31 Cattle Guard Markings

STANDARD PAINTED CATTLE GUARD (white)



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

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.

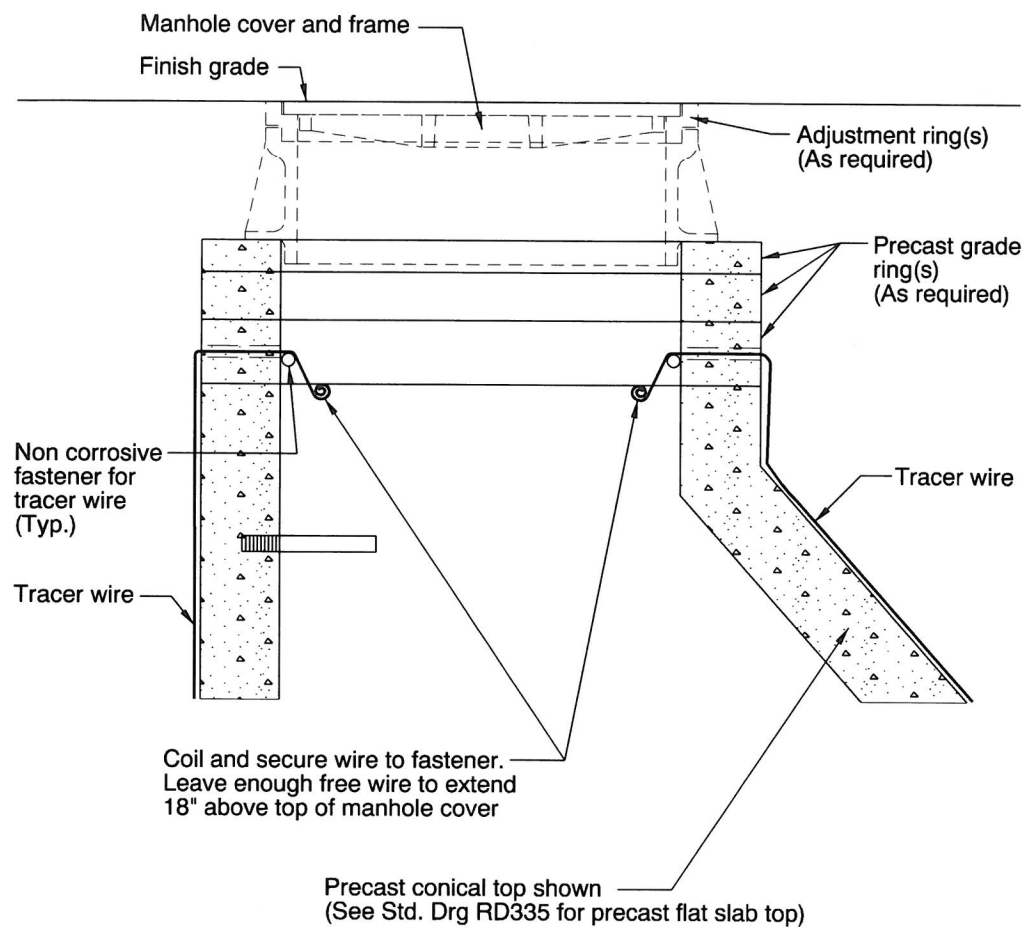
GENERAL NOTES FOR ALL DETAILS:

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  $\geq 36"$  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).

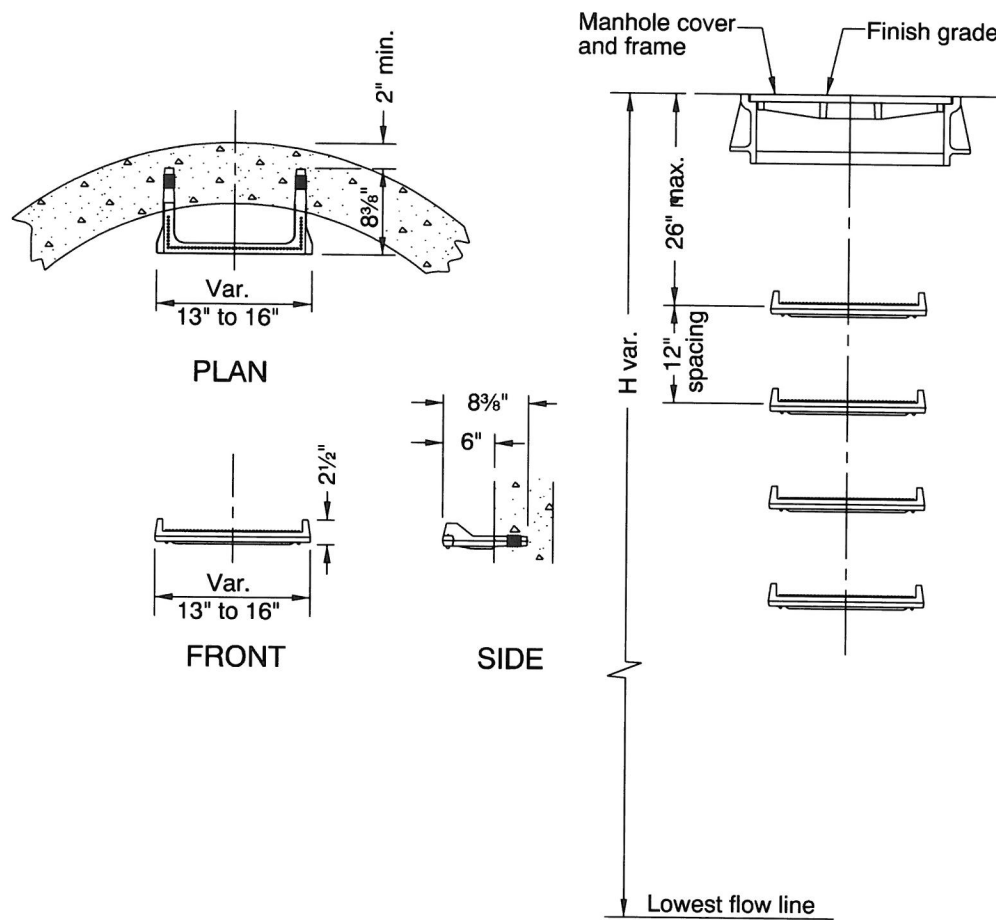
CALC. BOOK NO. <u>    N/A    </u>	BASELINE REPORT DATE <u>    14-JUL-2014    </u>
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
<b>OREGON STANDARD DRAWINGS</b>	
<b>TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS</b>	
2015	
DATE	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.*

rd336.dgn 21-JUL-2015

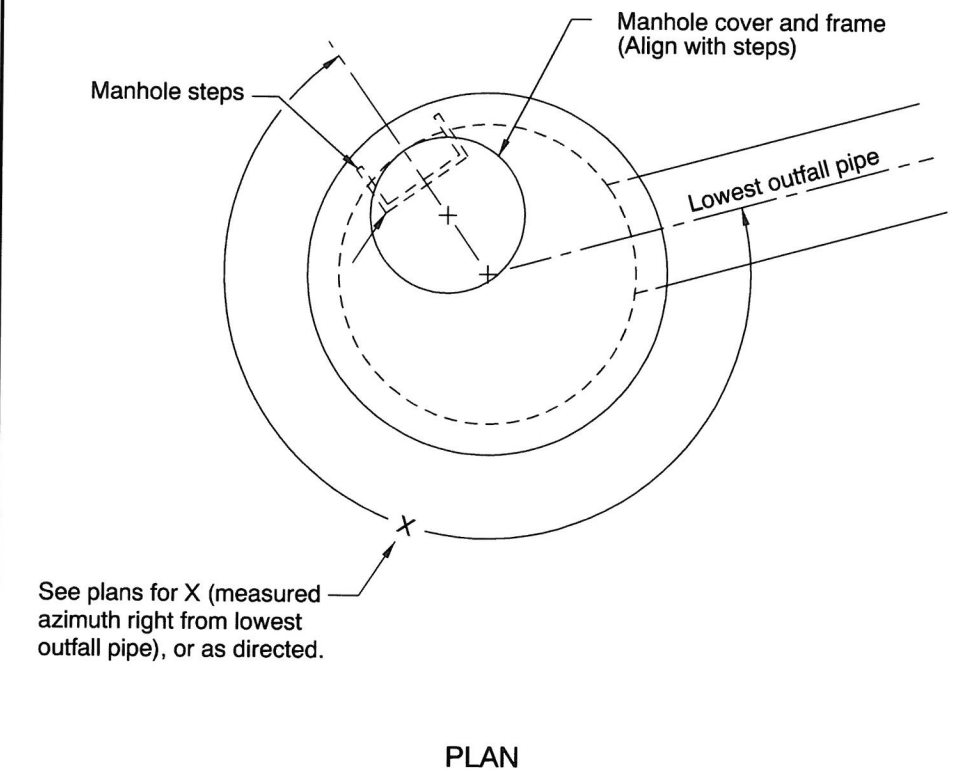


**DETAIL "A"**  
**TRACER WIRE**  
(See general note 6)



See ODOT's QPL for acceptable alternate manhole steps and/or ladders.  
NOTE: No conflict with pipe align with available shelf.

**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.

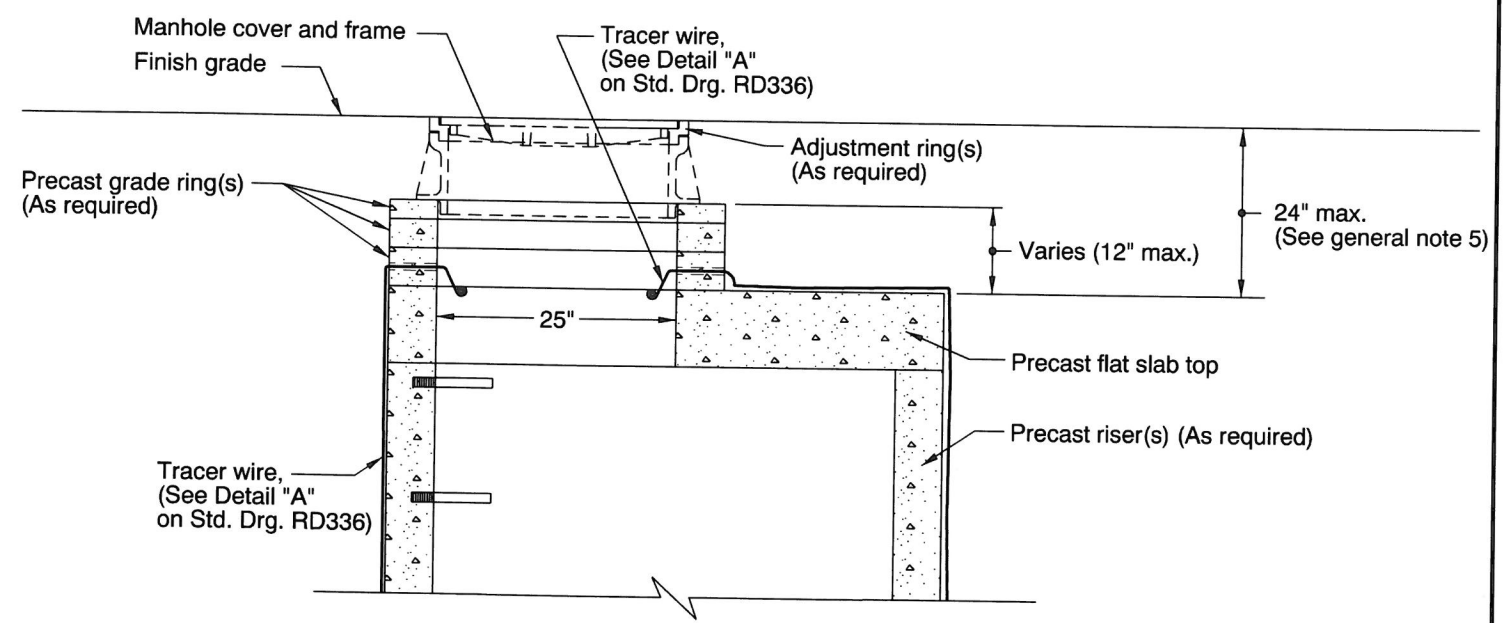
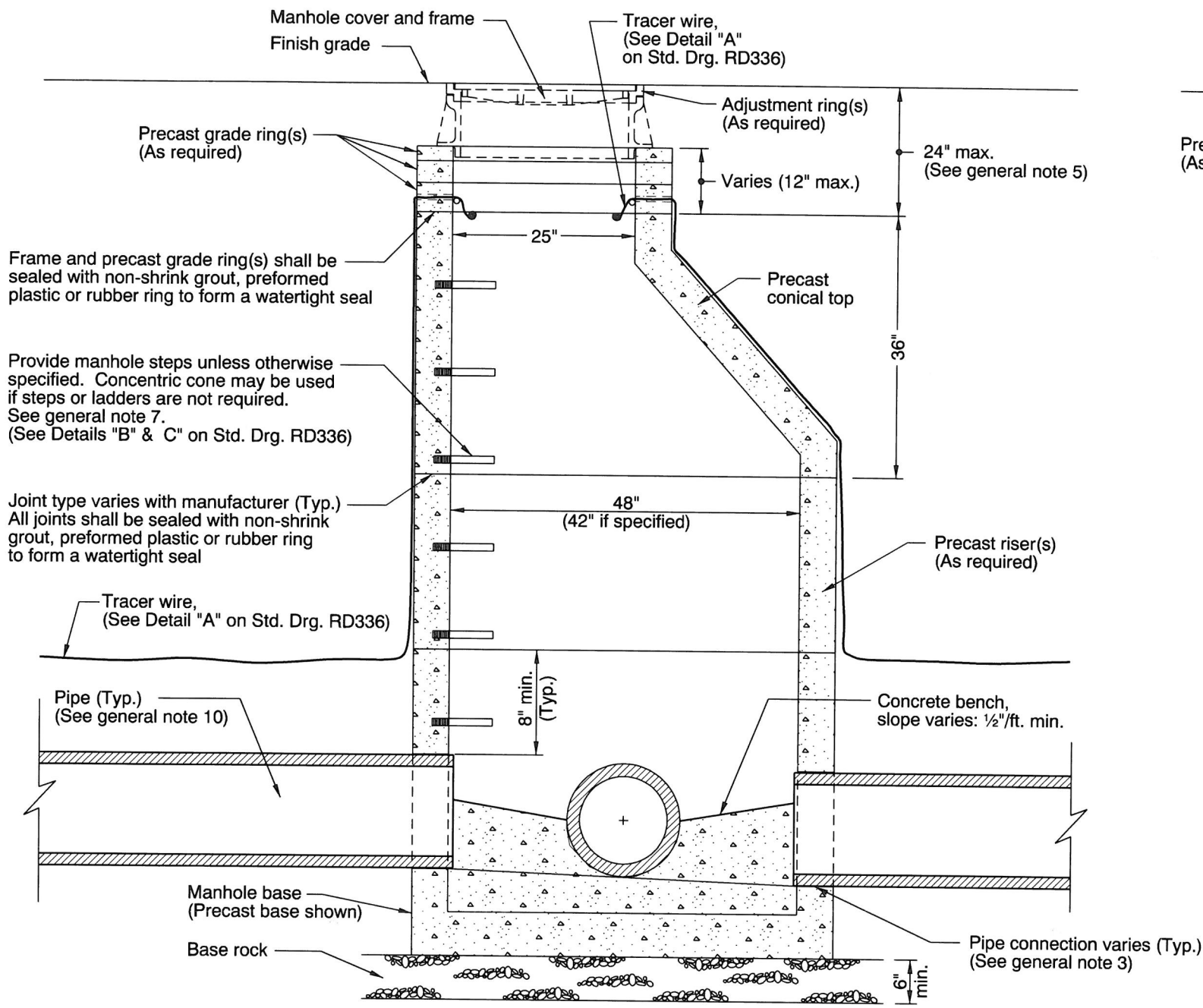
7. Steps and ladders shall conform to requirements of ASTM C478.  
See Std. Drg. RD337 for manhole safety ladder.  
When H=42" or less omit steps.  
See Detail "C" for alignment of steps, and manhole cover and frame.
8. See Std. Drg. RD335 for details not shown.
9. See Std. Drg. RD356 for manhole covers 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>	
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications			
<b>OREGON STANDARD DRAWINGS</b>			
<b>STANDARD MANHOLE DETAILS</b>			
2015			
DATE	REVISION DESCRIPTION		
07-2015	REVISED DETAILS & 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.*

RD336

rd338.dgn 14-JUL-2014



**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".

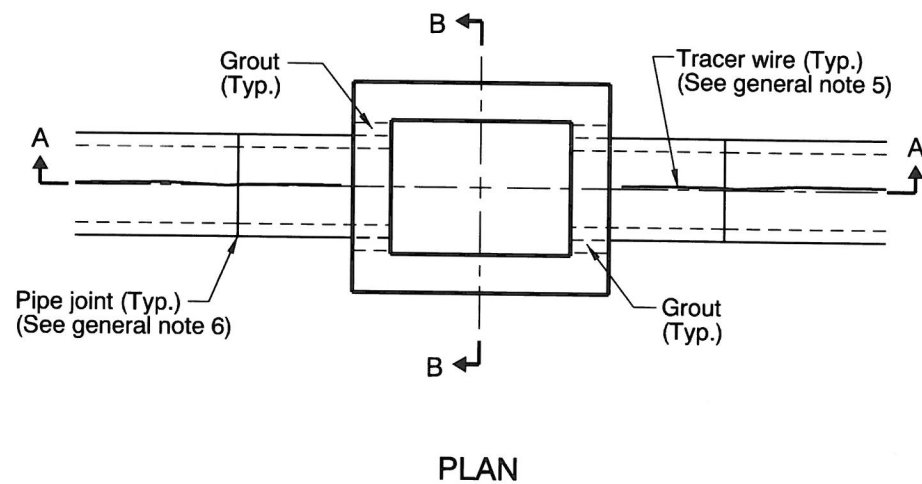
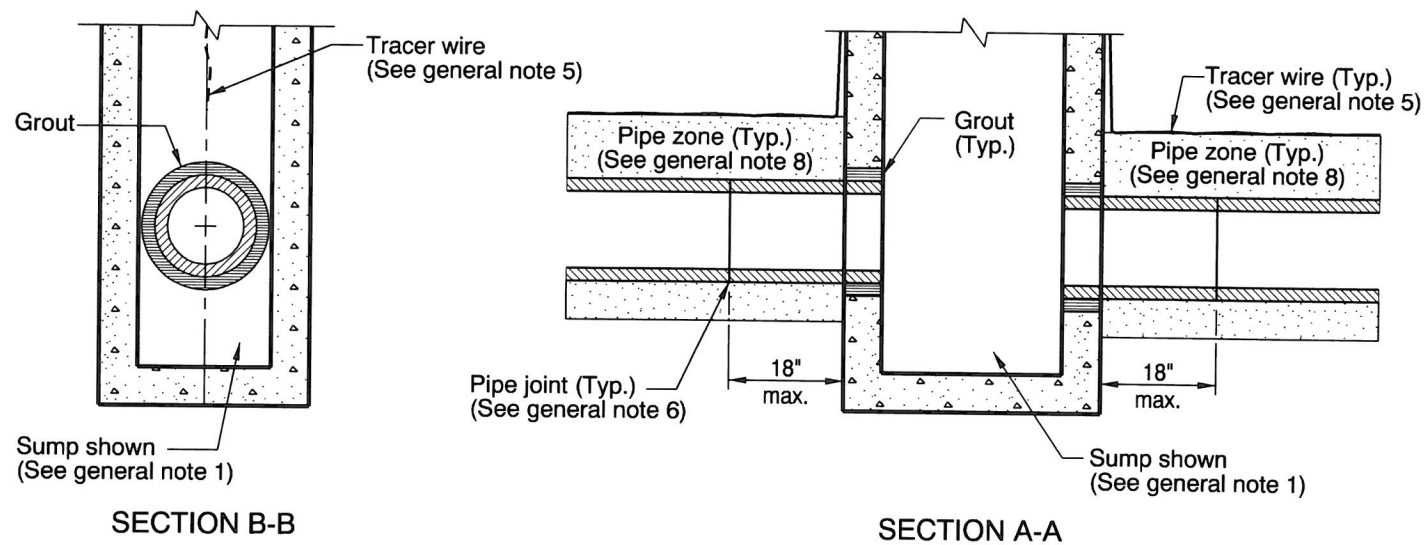
CALC. BOOK NO. <u>N/A</u>	BASELINE REPORT DATE <u>14-JUL-2014</u>
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
<b>OREGON STANDARD DRAWINGS</b>	
<b>STANDARD SANITARY SEWER MANHOLE</b>	
2015	
DATE	REVISION DESCRIPTION

*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.*

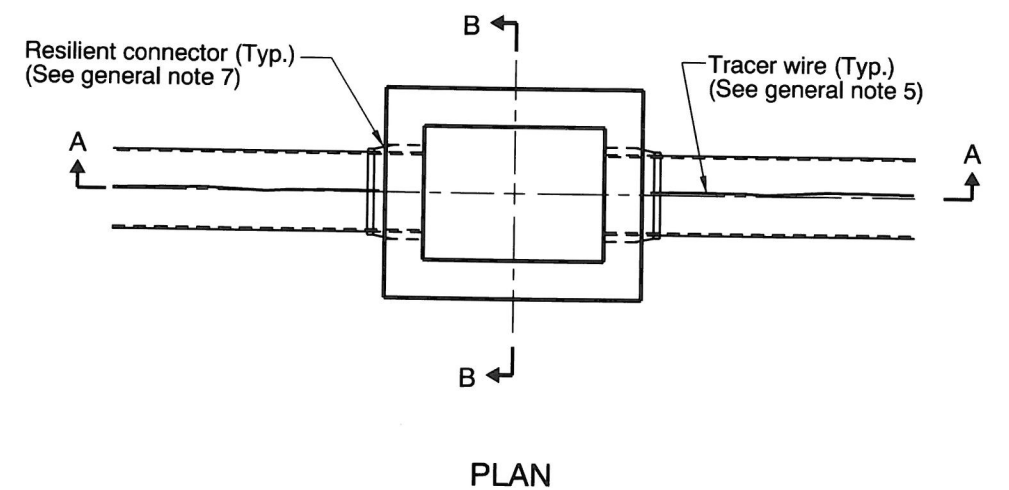
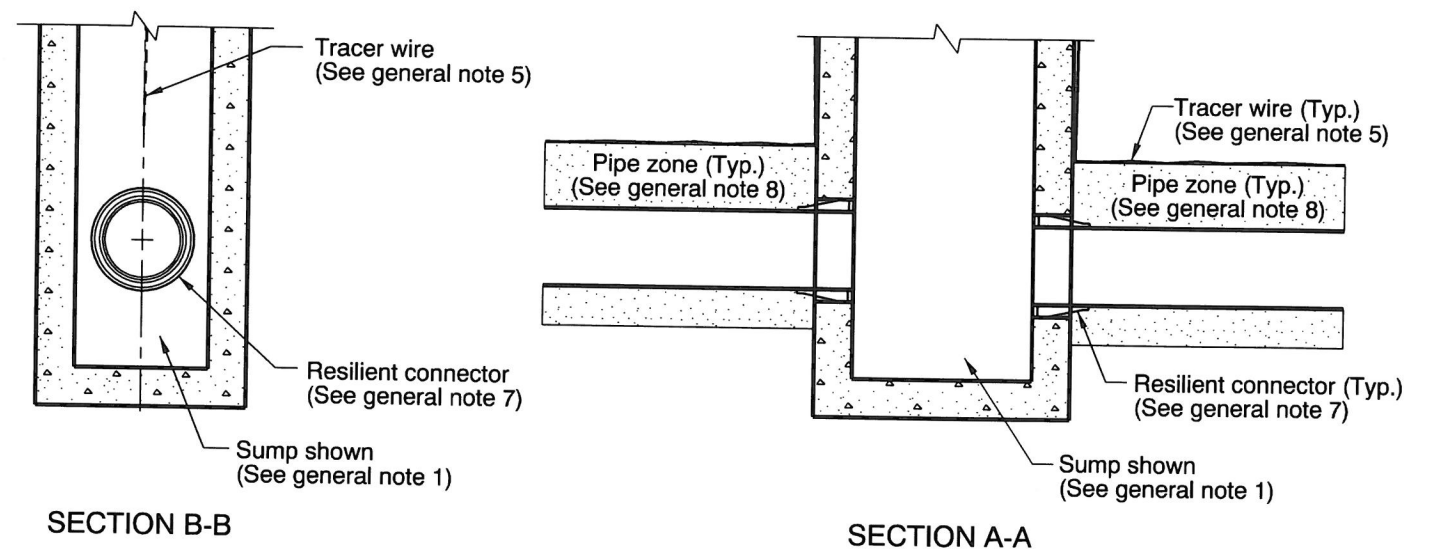
RD338



rd339.dgn 14-JUL-2014



CONNECTION OF RIGID PIPE TO STRUCTURE



CONNECTION OF FLEXIBLE PIPE TO STRUCTURE

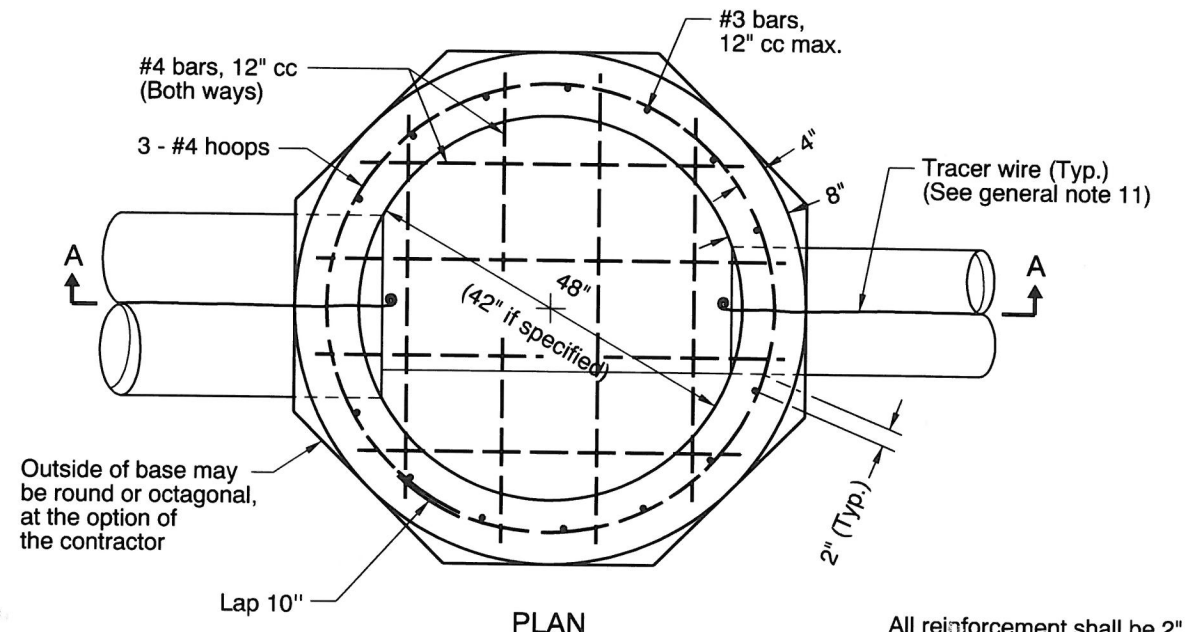
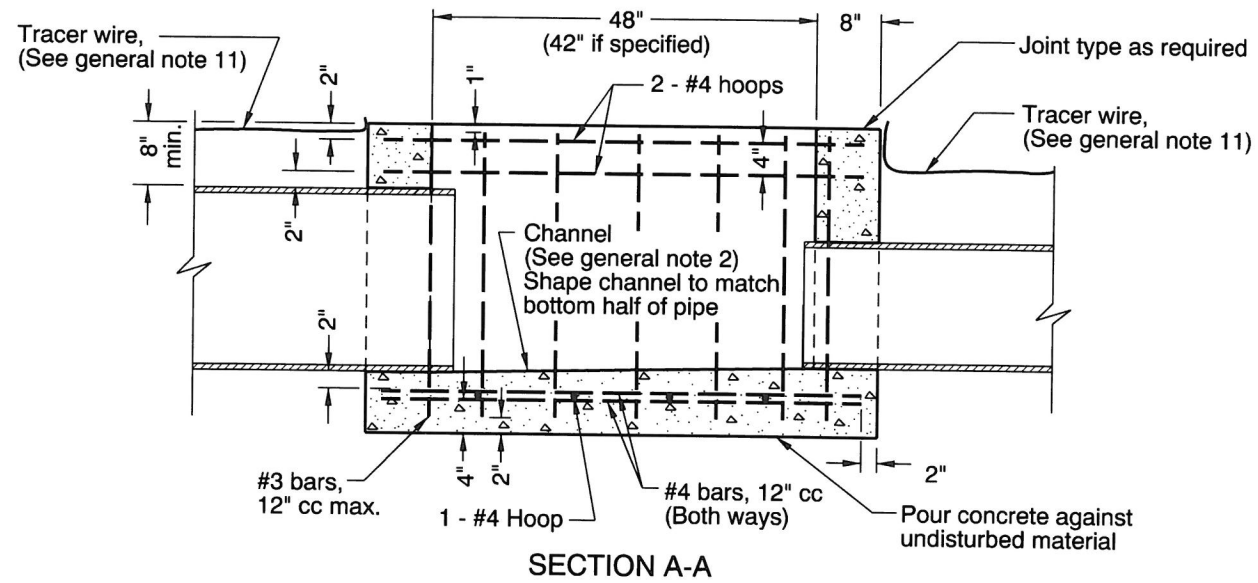
GENERAL NOTES FOR ALL DETAILS:

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. <u>N/A</u>	BASELINE REPORT DATE <u>14-JUL-2014</u>
<p><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></p>	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
	<b>OREGON STANDARD DRAWINGS</b>
	<b>PIPE TO STRUCTURE CONNECTIONS</b>
	2015
DATE	REVISION DESCRIPTION

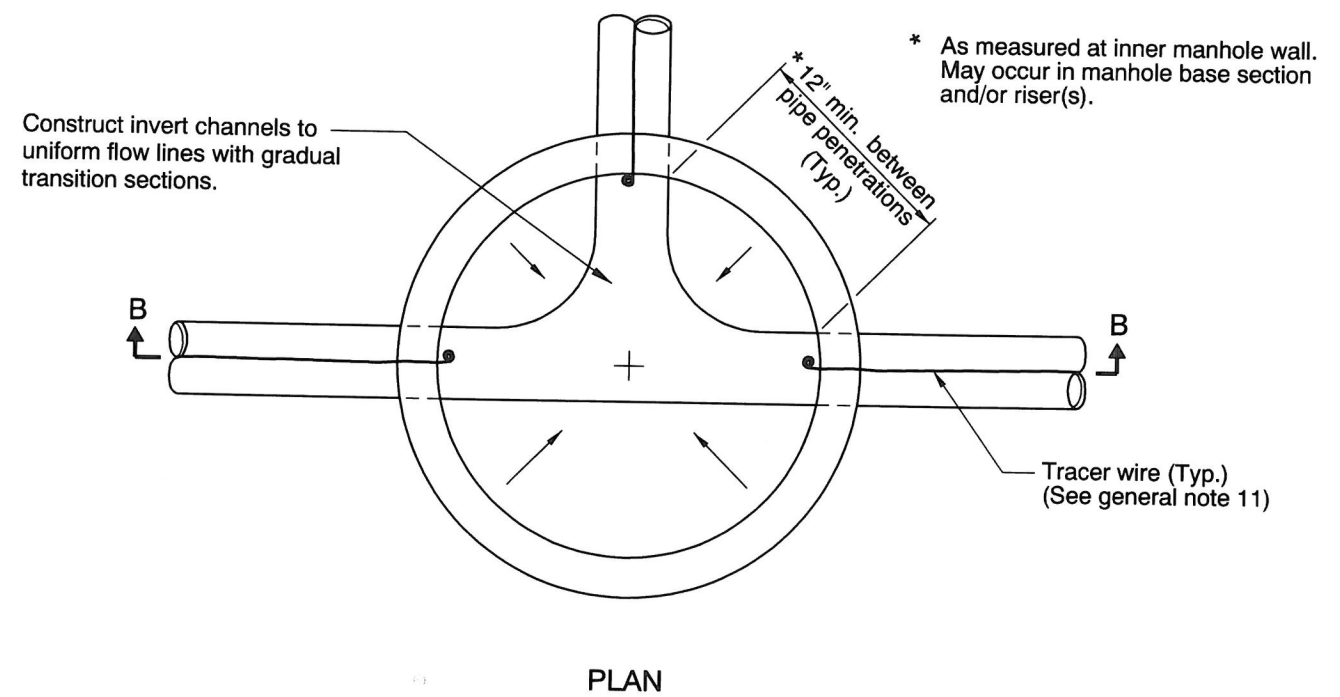
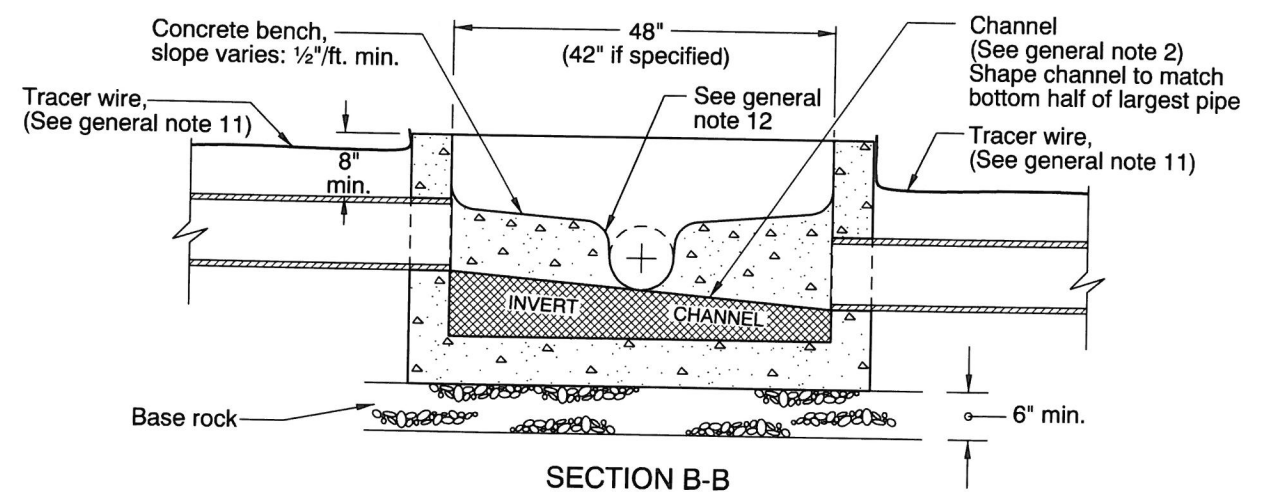
RD339

rd344.dgn 14-JUL-2014



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

All reinforcement shall be 2" clear of nearest face of conc., unless otherwise shown.



**PRECAST MANHOLE BASE**

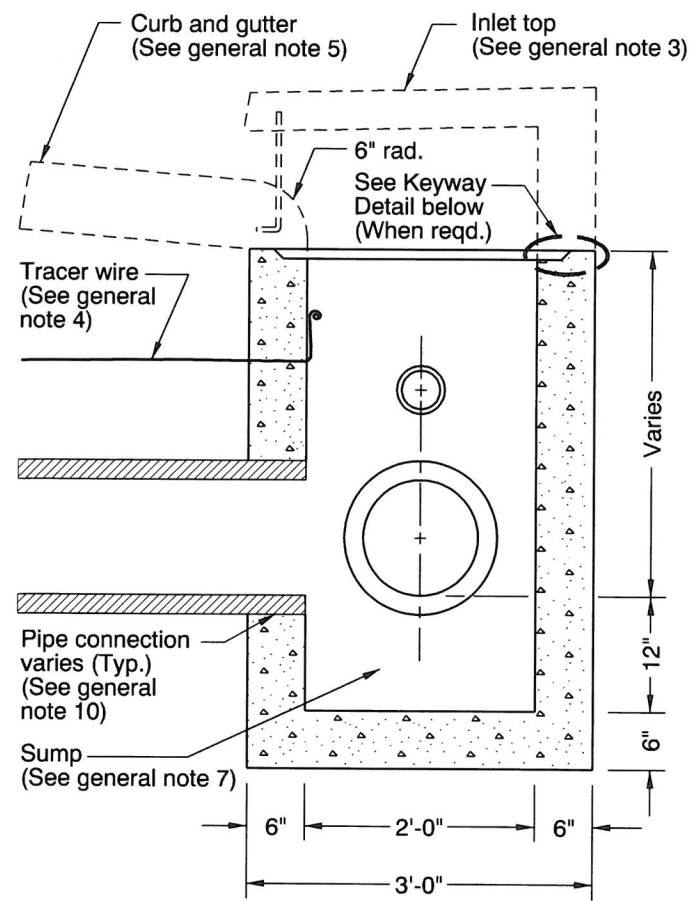
**GENERAL NOTES FOR ALL DETAILS:**

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.

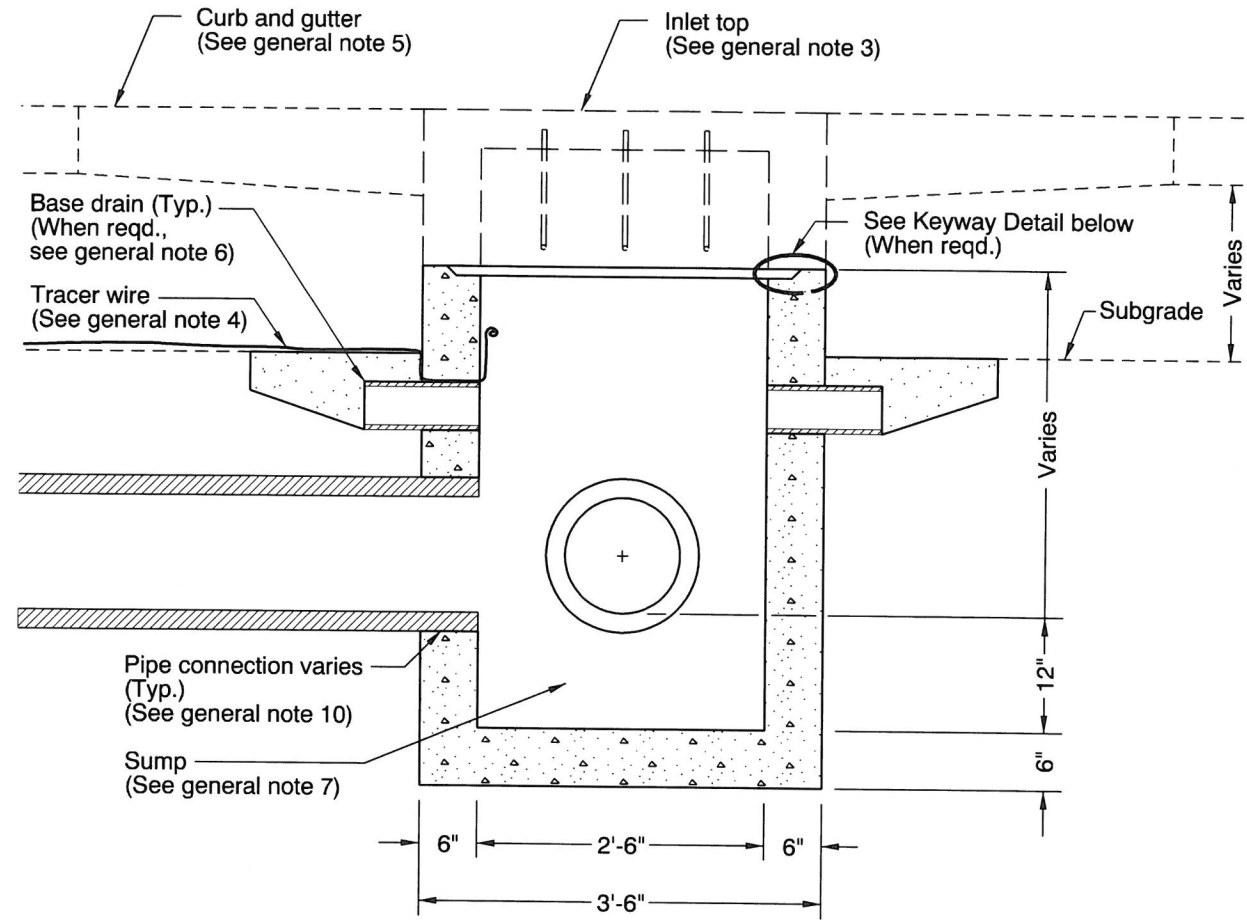
CALC. BOOK NO. <u>N/A</u>	BASLINE REPORT DATE <u>14-JUL-2014</u>
<p><i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered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

RD344

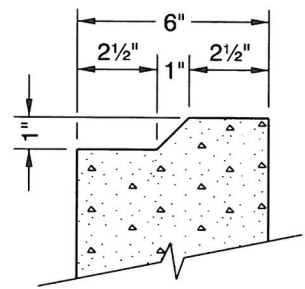
rd371.dgn 21-JUL-2015



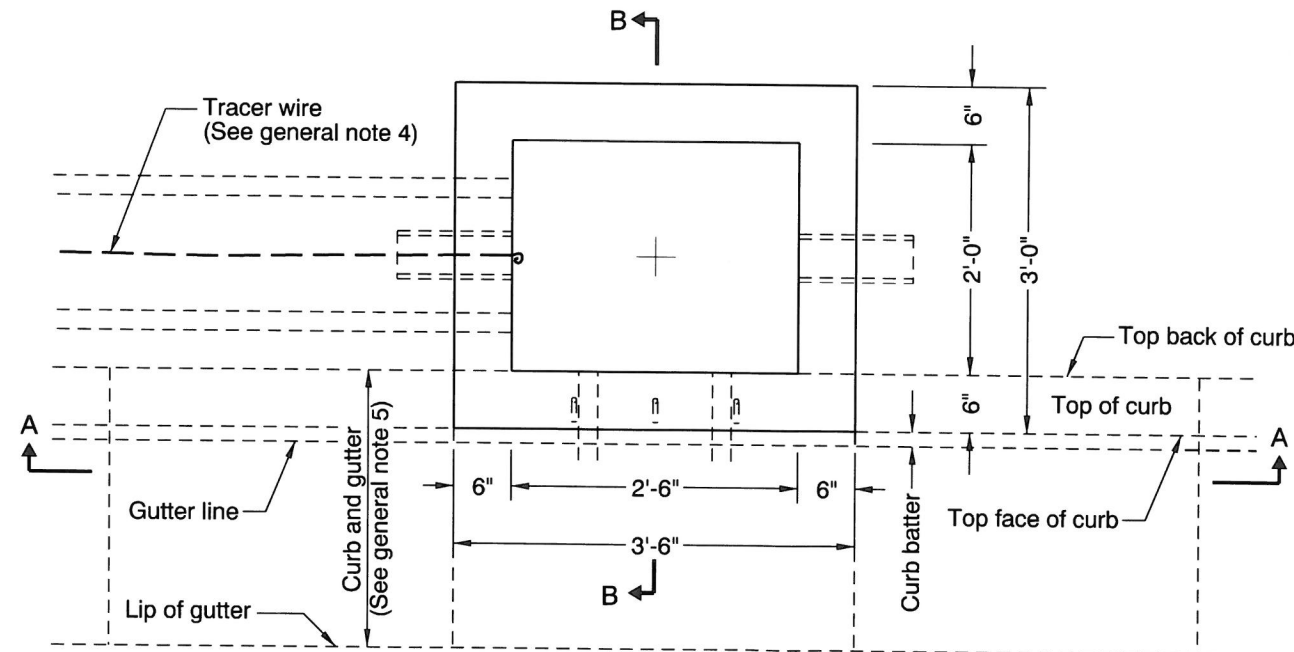
SECTION B - B



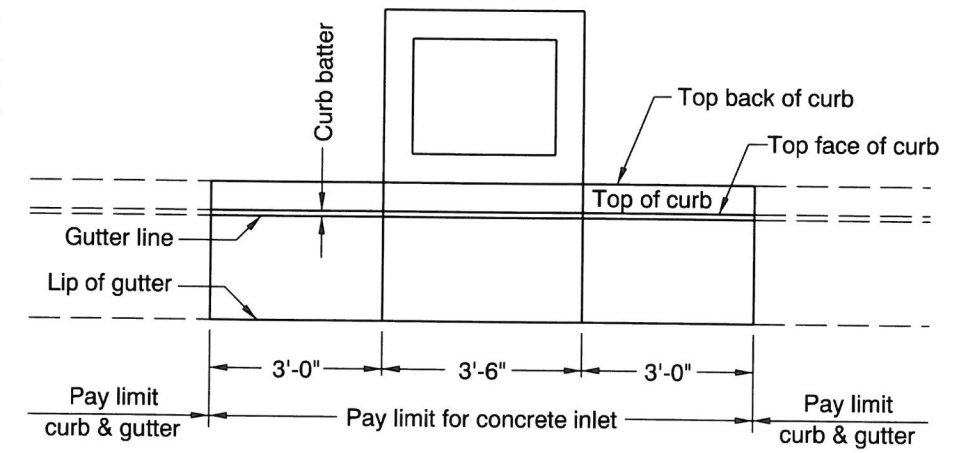
SECTION A - A



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. <u>N/A</u>	BASELINE REPORT DATE <u>21-JUL-2015</u>
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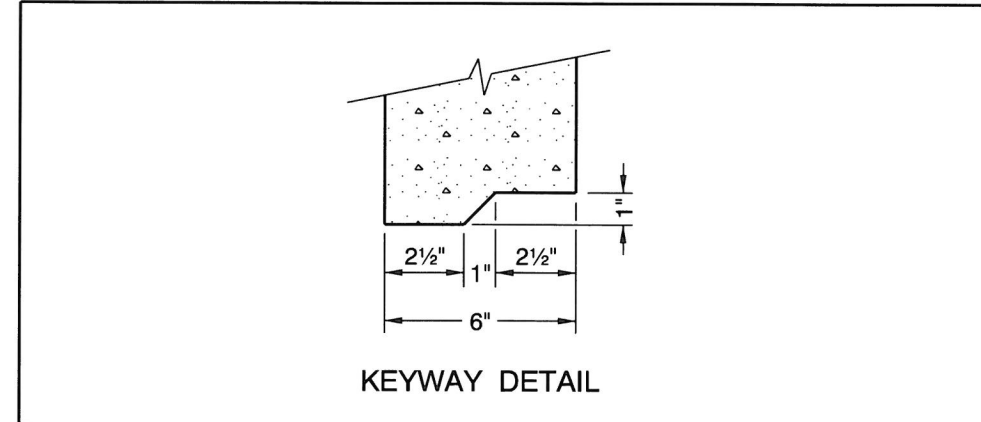
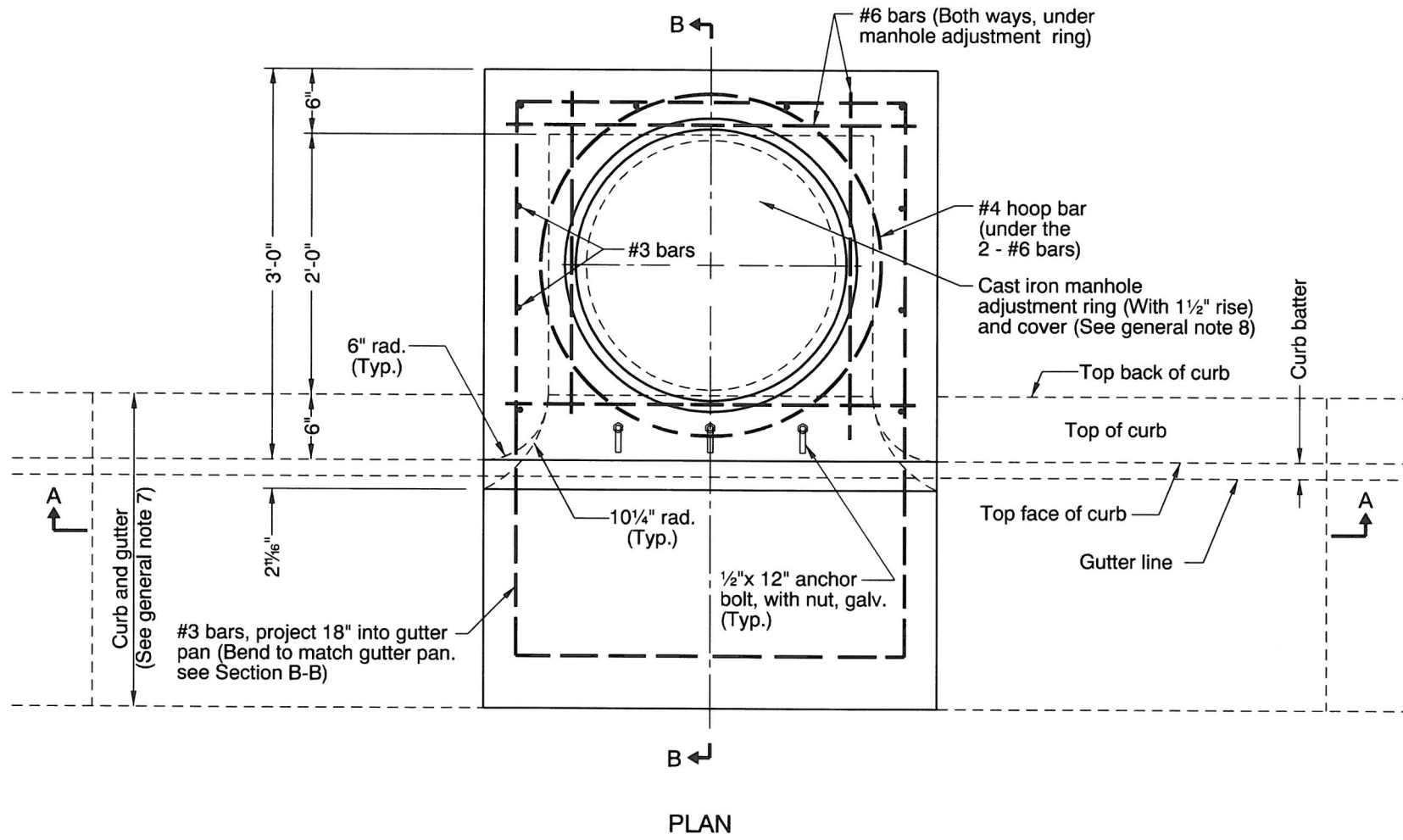
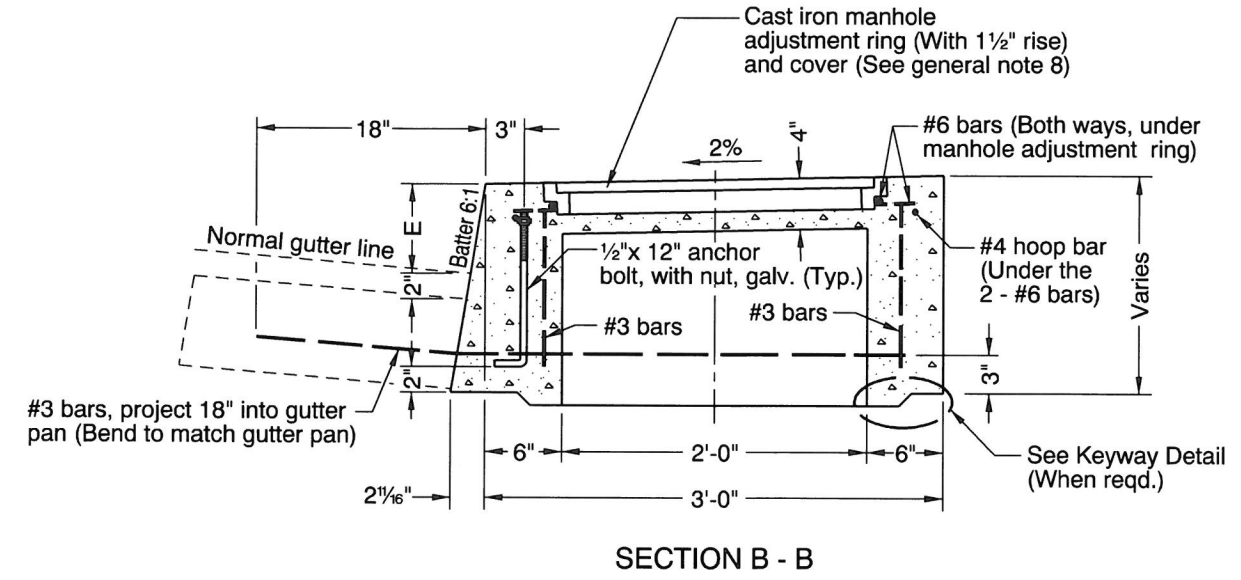
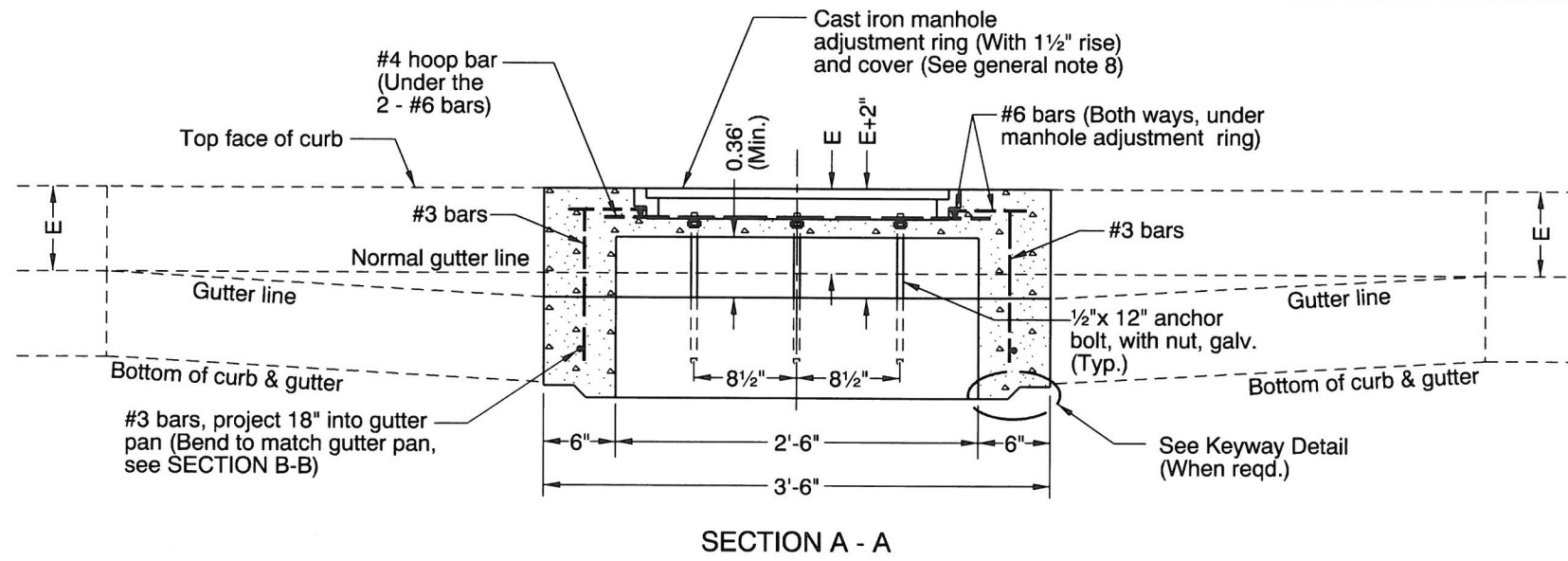
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

*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.*

<b>OREGON STANDARD DRAWINGS</b>	
<b>CONCRETE INLET BASE TYPE CG-3</b>	
2015	
DATE	REVISION DESCRIPTION
07-2015	REVISED DETAIL, REVISED AND ADDED NOTES

RD371

rd372.dgn 21-JUL-2015



- 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. <u>N/A</u>	BASILINE REPORT DATE <u>21-JUL-2015</u>
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
<b>OREGON STANDARD DRAWINGS</b>	
<b>CONCRETE INLET TOP, OPTION 1</b>	
<b>TYPE CG-3</b>	
2015	
DATE	REVISION DESCRIPTION
07-2015	REVISED AND ADDED NOTES

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