

GENERAL NOTES

GENERAL

- 1. ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND PROVISIONS OF THE CITY OF WEST LINN MINIMUM DESIGN STANDARDS FOR EXTENSIONS AND IMPROVEMENTS TO THE PUBLIC WATER AND SANITARY SEWER SYSTEM...

- 25. 3/4" - 0" CRUSHED ROCK PIPE ZONE AND BACKFILL MATERIAL IS REQUIRED FOR ALL UTILITY LINES, CONDUITS AND LEVELING COURSES BELOW PAVEMENTS AND IN RIGHT-OF-WAYS...

02.0 CLEARING AND GRUBBING

- 1. ALL CONSTRUCTION AND MATERIALS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THESE PLANS AND THE APPLICABLE REQUIREMENTS OF CITY OF WEST LINN, STATE OF OREGON...

PUBLIC STREET

- 1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE CURRENT REQUIREMENTS OF CITY OF WEST LINN 'CONSTRUCTION STANDARDS FOR PUBLIC WORKS FACILITIES'...

- 7. COMPACTION TESTS OF AGGREGATE BASE MUST BE IN ACCORDANCE WITH ASSHTO, METHOD T-180 AND ACHIEVE A RELATIVE DENSITY OF 95%...

PUBLIC STORM DRAIN

- 1. ALL STORM SEWER SYSTEM FITTINGS, EQUIPMENT AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF WEST LINN ENGINEERING DEPARTMENT...

EARTHWORK SPILLAGE AND DUST CONTROL

- 1. AVOID SOILS SPILLAGE AND CREATION OF DUST NUISANCE BY COVERING AND SECURING LOADS WHEN HAULING ON OR ADJACENT TO PUBLIC STREETS OR HIGHWAYS...

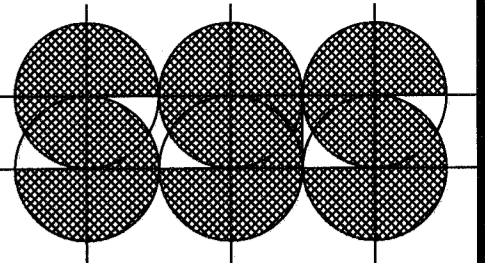
CONSTRUCTION INSPECTIONS AND MEETINGS

- 1. THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH CITY PERSONEL, ALL SUBCONTRACTORS, PROJECT ARCHITECT, OWNER'S REPRESENTATIVE, PROJECT GEOTECHNICAL ENGINEER AND PROJECT CIVIL ENGINEER...

- A. PLACEMENT OF EROSION/SEDIMENTATION CONTROLS. B. UNDERGROUND UTILITY TRENCHING AND CONDUIT PLACEMENT. C. COMPACTION TESTING/PROOF ROLL OF TRENCH BACKFILL AND FILL AREAS...

CIVIL ABBREVIATIONS

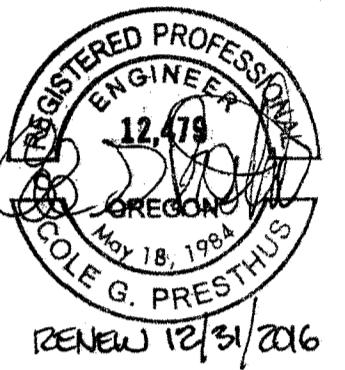
Table with 4 columns: Abbreviation, Full Name, Abbreviation, Full Name. Includes terms like ANCHOR BOLTS, ASPHALT CONCRETE, AREA DRAIN, AMERICANS WITH DISABILITIES ACT, etc.



STEWART GORDON STRAUS ARCHITECT
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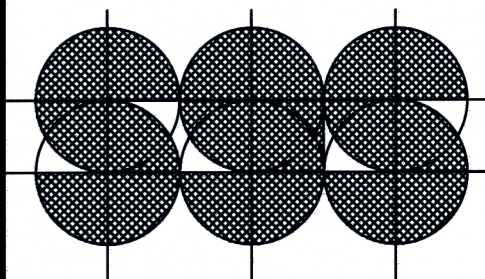
Structural-Civil Engineers
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www.wdy.com



SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

Table with columns: PROJECT NUMBER: 1335, DRAWING, DATE, BY. Includes rows for DESIGN, DES REV, PERMIT, PLAN CHECKS, SHEET TITLE, NOTES AND ABBREVIATIONS, SHEET # CS1.1.

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code corrections in the field.
DATE: 3/23/15 BY: [Signature]



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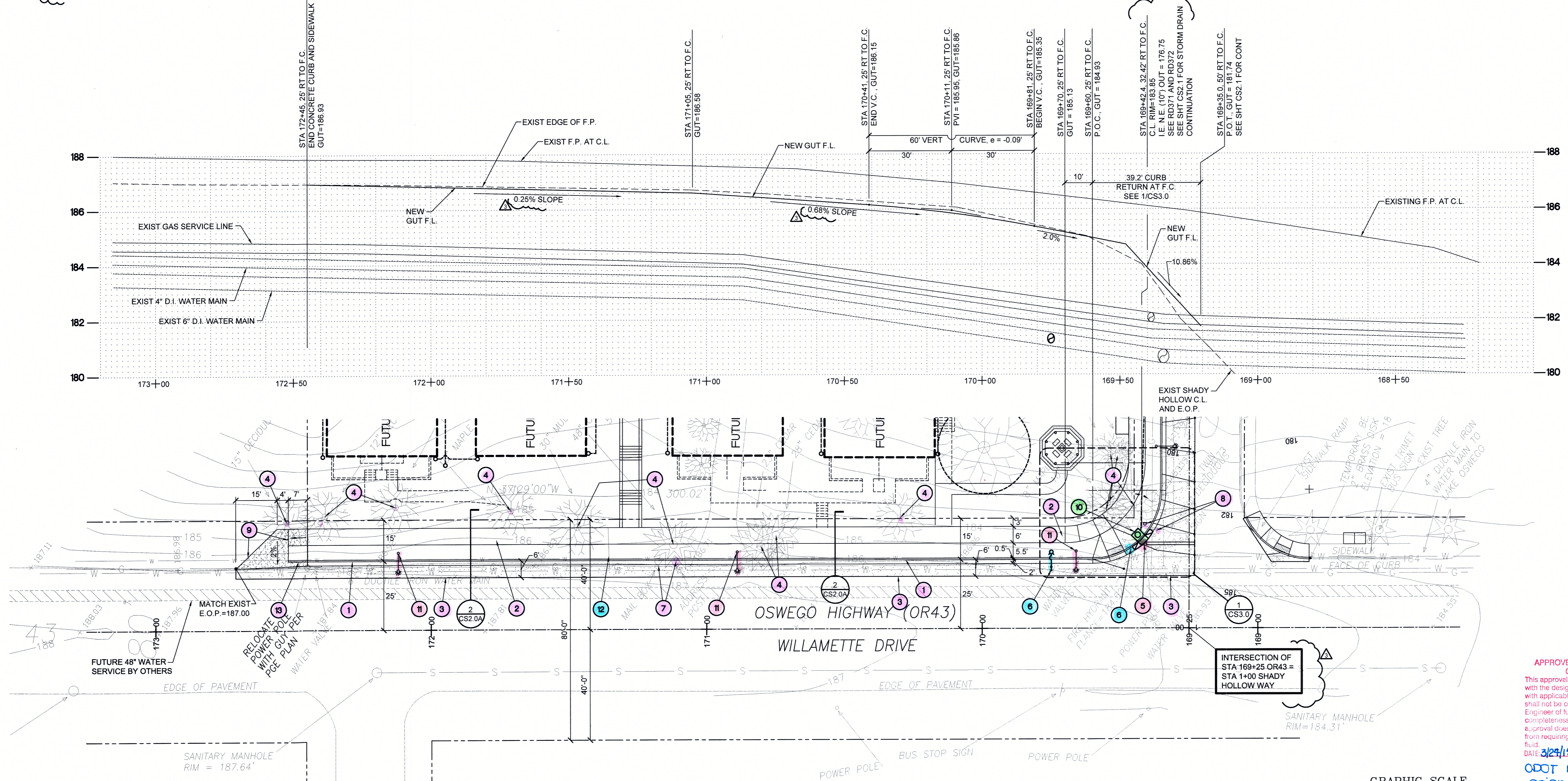
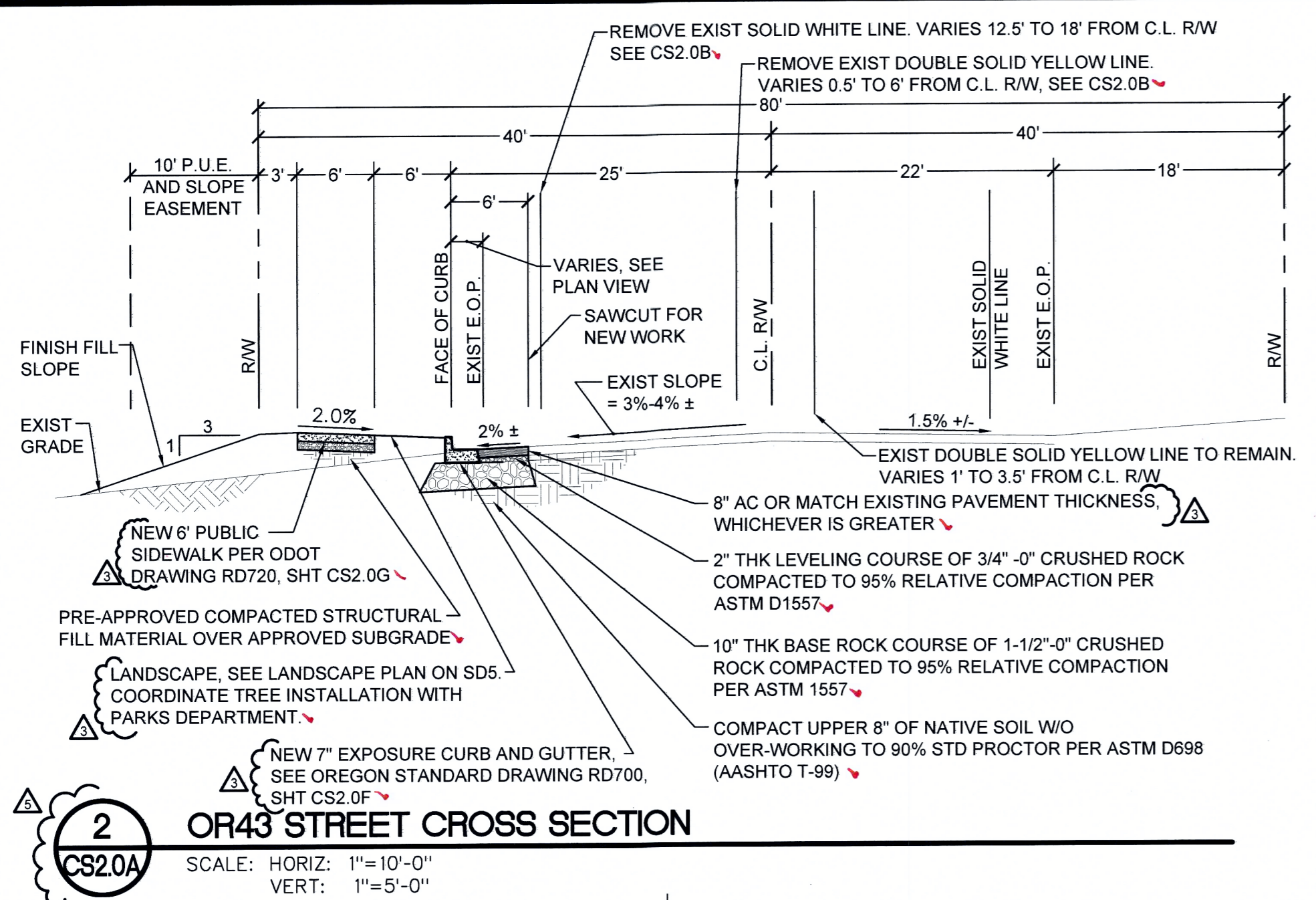
SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER:	1335	
DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	DATE	BY
	12 MAR 2014	SGS
PERMIT	DATE	BY
	22 AUG 2014	SGS
PLAN CHECKS	DATE	BY
	21 OCT 2014	CGP
	06 JAN 2015	CGP
	23 JAN 2015	CGP
	25 FEB 2015	CGP
	16 MAR 2015	CGP

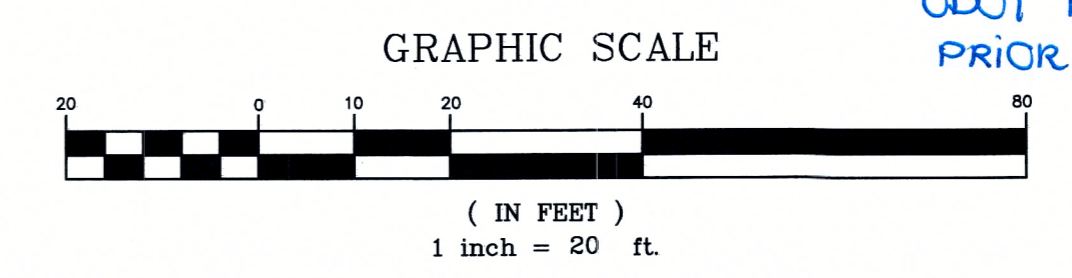
SHEET TITLE
OR43 IMPROVEMENTS
SHEET #
CS2.0A

KEYNOTES FOR THIS SHEET

- | MARK | DESCRIPTION | MARK | DESCRIPTION |
|------|--|------|---|
| 1 | INSTALL NEW CURB PER OREGON STANDARD DRAWING RD700 ON SHT CS2.0F. 7" CURB HEIGHT, 30" CURB & GUTTER WIDTH. | 11 | NEW STREET LIGHTS (STA 169+66, 28' RT; STA 170+88, 28' RT; STA 172+12, 28' RT) TO BE DONE BY OTHERS. SEPARATE PERMIT IS REQUIRED. |
| 2 | INSTALL NEW 6" PC CONCRETE SIDEWALK PER OREGON STANDARD DRAWING RD720, SHEET CS2.0G. | 12 | DECOMMISSION EXIST WATER METER. |
| 3 | SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT AND PROVIDE NEW PAVEMENT SECTION. STRAIGHT GRADE NEW PAVEMENT FROM EXIST F.P. AT SAWCUT TO NEW GUTTER ELEVATION (TYP). PROVIDE HOT ASPHALT SEAL AND SAND COAT AT ALL SAWCUT EDGES. | 13 | 6" WIDE x 7" LONG x TAPERED (0" TO 7" TALL) AC PAVEMENT CURB. |
| 4 | REMOVE EXISTING TREE FOR NEW WORK. | | |
| 5 | REMOVE EXISTING POWER POLE. MOVE ALL EXIST OVERHEAD LINES UNDERGROUND PER PGE PLAN, GENERAL CONTRACTOR COORDINATE. | | |
| 6 | REMOVE EXISTING F.H. COORDINATE VALVE DECOMMISSION WITH CITY PUBLIC WORKS DEPARTMENT. INSTALL NEW F.H. ASSEMBLY WITH VALVE AT STA 169+75, 27.87' RT. PER WL-401. CONNECT NEW FIRE SERVICE PIPE TO EXIST WATER LINE. PROVIDE MECH RESTRAINED FITTINGS AT ALL JOINTS. CONTRACTOR CONFIRM PIPE DEPTHS AND ALL MATERIAL REQUIREMENTS PRIOR TO ORDERING. | | |
| 7 | REMOVE EXISTING MAILBOX AND ADDRESS POST. | | |
| 8 | REMOVE EXISTING "STOP" SIGN. PROVIDE NEW 36" x 36" STOP SIGN PER MUTCD SIGN R1-1 ON SQUARE STEEL TUBE SUPPORT. EXTEND TUBE SUPPORT ABOVE STOP SIGN AND MOUNT NEW STREET NAME SIGNS ABOVE PER DETAIL 1/CS2.0C. SEE STREET NAME SIGN DETAILS ON CS2.0B AND STOP SIGN DETAIL ON CS2.0C. SEE ALSO SIGN INSTALLATION, ATTACHMENT, FOUNDATION AND SUPPORT DETAIL ON SHTS CS2.0C, CS2.0E AND CS2.0F (TM200, TM206, TM676, TM681 AND TM687). | | |
| 9 | A.C. PAVEMENT CONNECTION PATH AND RAMP SIM TO RD756 OPTION F - SIDEWALK RAMP AND TURNING SPACE (FOR ENDS OF WALKS). SEE SHT CS2.0G. PROVIDE HOT ASPHALT SEAL AND SANDED FINISH OVER JOINT TO EXIST A.C. EDGE. | | |
| 10 | NEW CG-3 CURB INLET AT STA 169+42.1, 32.42' RT (STA 1+32.15, 19.40' LT SHADY HOLLOW), SEE RD371 AND RD372, SHEET CS2.0F. | | |

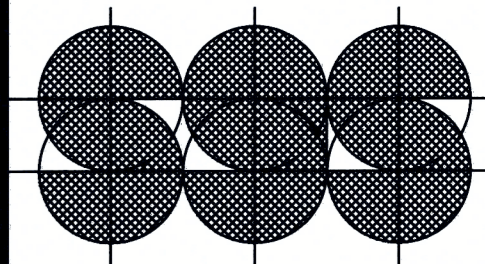


1 OSWEGO HIGHWAY (OR 43) (WILLAMETTE DRIVE) IMPROVEMENTS
CS2.0A HORIZONTAL SCALE: 1"=20'-0"
VERTICAL SCALE: 1"=2'-0"



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DATE: 3/24/15 BY: *[Signature]*
ODOT PERMIT REQUIRED PRIOR TO CONSTRUCTION

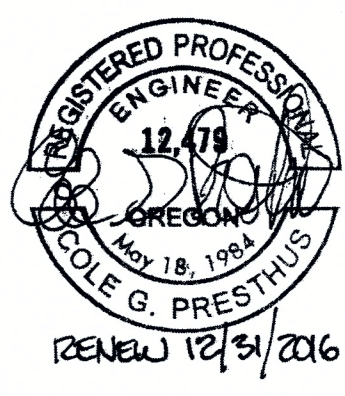
\\WDY\DDO1\Projects\2013\14207 - Shady Hollow Alpha\Cost\Plan\OD\Office\Street Improvements\CS2.0A - OR43 Plan & Profile\CS2.0A - 14207.dwg, 3/14/2015 2:46:33 PM, Kutyayeva



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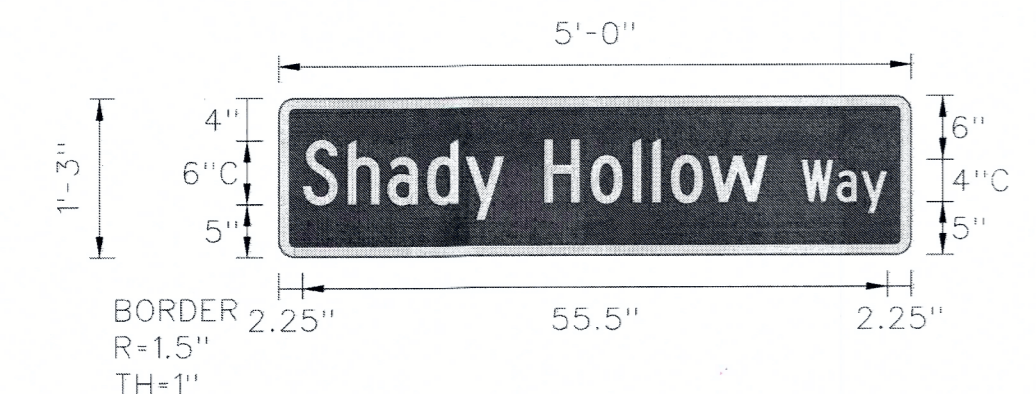
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SHADY HOLLOW VILLAGE
 SHADY HOLLOW AND WILLAMETTE DRIVE
 WEST LINN, OREGON

PROJECT NUMBER:	1335	
DRAWING DESIGN	DATE	BY
	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	DATE	BY
	12 MAR 2014	SGS
PERMIT	DATE	BY
	22 AUG 2014	SGS
PLAN CHECKS	DATE	BY
△	21 OCT 2014	CGP
△	06 JAN 2015	CGP
△	23 JAN 2015	CGP
△	25 FEB 2015	CGP
△	16 MAR 2015	CGP
SHEET TITLE	OR43 STRIPING PLAN	
SHEET #	CS2.0B	

SIGN DETAIL SHADY HOLLOW WAY SIGN DETAIL



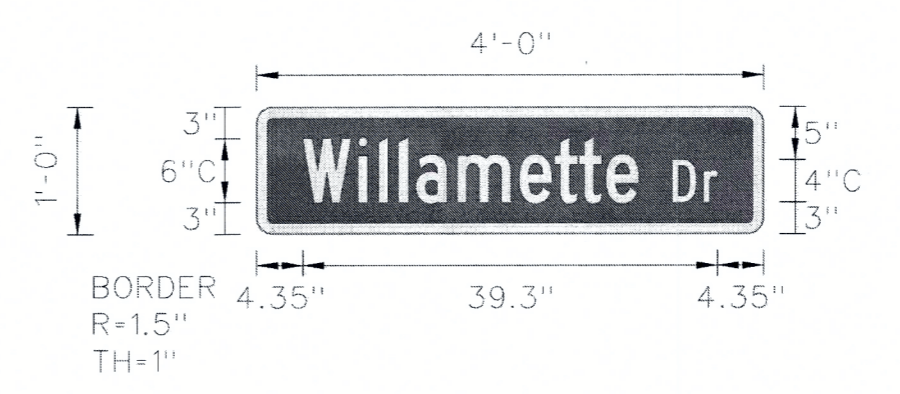
SIGN NUMBER	name
WIDTH x HGHT.	5'-0" x 1'-3"
BORDER WIDTH	1"
CORNER RADIUS	1.5"
MOUNTING	ground
BACKGROUND	TYPE: ASTM TYPE III or IV COLOR: Green
LEGEND/BORDER	TYPE: ASTM TYPE III or IV COLOR: White

SYMBOL	X	Y	WID	HT

Panel Style: _2009_street_name_6C-tails.ssi
 M.U.T.C.D.: 2009 Edition
 2 Required Sign Type: 'G' Substrate: HDO PLYWOOD
 Dimensions are in inches. Letter locations are paneledge to lower left corner

LETTER POSITIONS (X)										LENGTH	SIZE/SERIES			
S	h	a	d	y		H	o	l	l	o	w		6/4.5	
2.3	6.5	10.3	14	17.8	21.5	25.2	29.6	33.6	35.5	37.2	40.8		C 2000	
												44.1		
W	a	y											4/3	
49.6	52.9	55.2											8.1	C 2000

SIGN DETAIL WILLAMETTE DRIVE SIGN DETAIL



SIGN NUMBER	name
WIDTH x HGHT.	4'-0" x 1'-0"
BORDER WIDTH	1"
CORNER RADIUS	1.5"
MOUNTING	ground
BACKGROUND	TYPE: ASTM TYPE III or IV COLOR: Green
LEGEND/BORDER	TYPE: ASTM TYPE III or IV COLOR: White

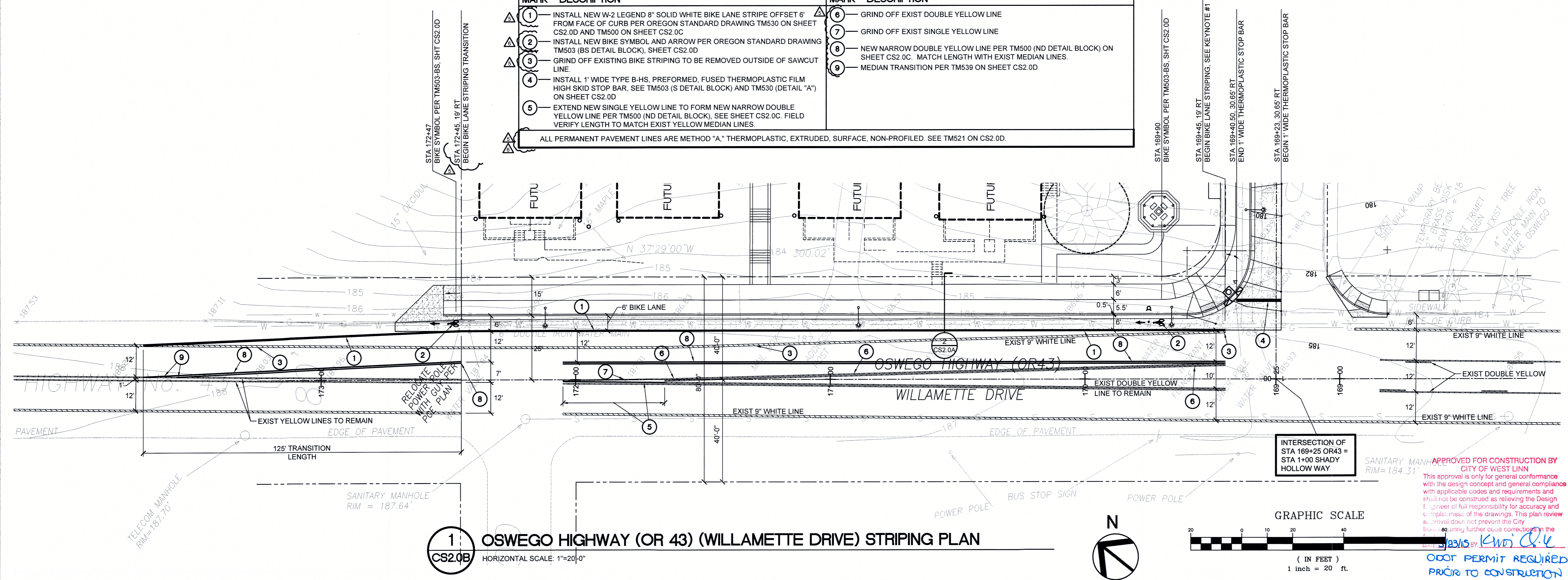
SYMBOL	X	Y	WID	HT

Panel Style: _2009_street_name_6C.ssi
 M.U.T.C.D.: 2009 Edition
 2 Required Sign Type: 'G' Substrate: HDO PLYWOOD
 Dimensions are in inches. Letter locations are paneledge to lower left corner

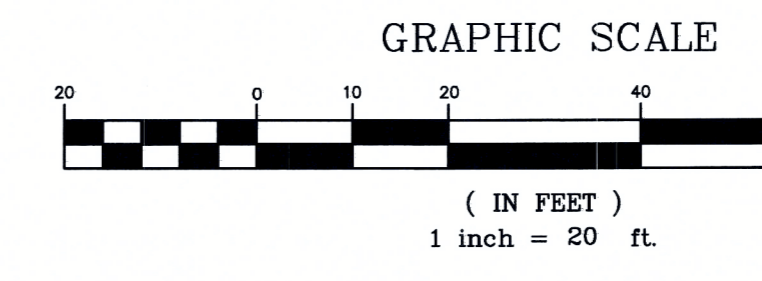
LETTER POSITIONS (X)										LENGTH	SIZE/SERIES		
W	i	i	l	l	e	t	t	e				6/4.5	
4.4	9.6	11.6	13.5	15.1	19	24.9	28.2	30.5	33.1			C 2000	
												31.8	
D	r											4/3	
39.4	42.3											4.3	C 2000

KEYNOTES FOR THIS SHEET

- | MARK - DESCRIPTION | MARK - DESCRIPTION |
|--|--|
| 1 - INSTALL NEW W-2 LEGEND 8" SOLID WHITE BIKE LANE STRIPE OFFSET 6" FROM FACE OF CURB PER OREGON STANDARD DRAWING TM530 ON SHEET CS2.0D AND TM500 ON SHEET CS2.0C | 6 - GRIND OFF EXIST DOUBLE YELLOW LINE |
| 2 - INSTALL NEW BIKE SYMBOL AND ARROW PER OREGON STANDARD DRAWING TM503 (BS DETAIL BLOCK), SHEET CS2.0D | 7 - GRIND OFF EXIST SINGLE YELLOW LINE |
| 3 - GRIND OFF EXISTING BIKE STRIPING TO BE REMOVED OUTSIDE OF SAWCUT LINE | 8 - NEW NARROW DOUBLE YELLOW LINE PER TM500 (ND DETAIL BLOCK) ON SHEET CS2.0C. MATCH LENGTH WITH EXIST MEDIAN LINES. |
| 4 - INSTALL 1" WIDE TYPE B-HS. PREFORMED, FUSED THERMOPLASTIC FILM HIGH SKID STOP BAR. SEE TM503 (S DETAIL BLOCK) AND TM530 (DETAIL "A") ON SHEET CS2.0D | 9 - MEDIAN TRANSITION PER TM539 ON SHEET CS2.0D |
| 5 - EXTEND NEW SINGLE YELLOW LINE TO FORM NEW NARROW DOUBLE YELLOW LINE PER TM500 (ND DETAIL BLOCK), SEE SHEET CS2.0C. FIELD VERIFY LENGTH TO MATCH EXIST YELLOW MEDIAN LINES. | |
| ALL PERMANENT PAVEMENT LINES ARE METHOD "A," THERMOPLASTIC, EXTRUDED, SURFACE, NON-PROFILED. SEE TM521 ON CS2.0D. | |

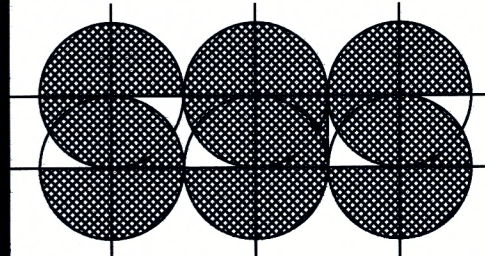


1 OSWEGO HIGHWAY (OR 43) (WILLAMETTE DRIVE) STRIPING PLAN
 CS2.0B HORIZONTAL SCALE: 1"=20'-0"



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 Basis by: *[Signature]*
 ODOT PERMIT REQUIRED
 PRIOR TO CONSTRUCTION

\\WDY\0001\Projects\001\A\K029 - Shady Hollow North\Coord\Print\CS2.0B - OS43 Striping Plan\CS2.0B-14029.dwg, 3/16/2015 2:48:19 PM, Katsuyama



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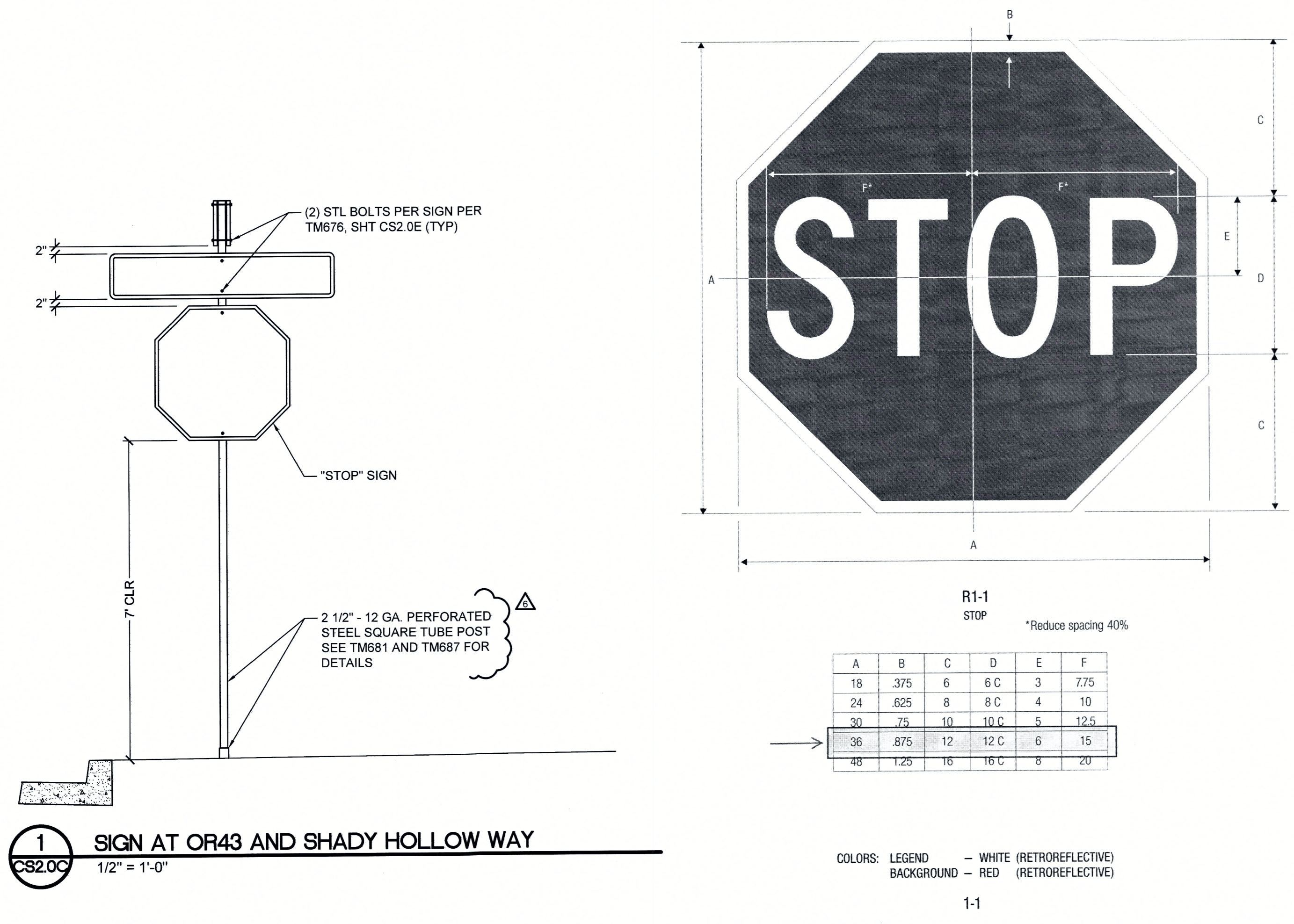
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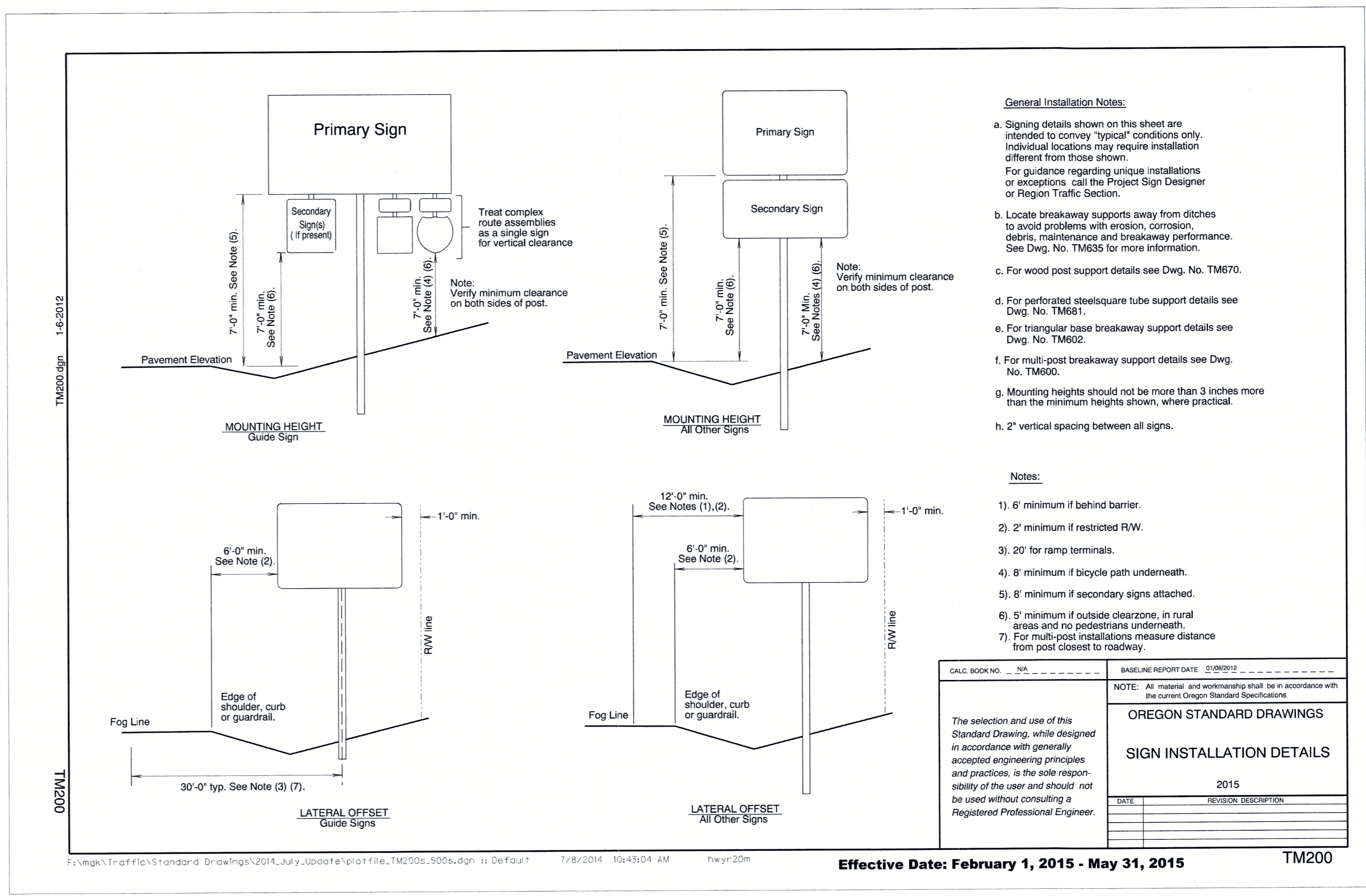
SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER: 1335	
DRAWING	DATE
DESIGN	20 NOV 2013
	11 FEB 2014
DES REV	12 MAR 2014
PERMIT	22 AUG 2014
PLAN CHECKS	21 OCT 2014
	06 JAN 2015
	23 JAN 2015
	25 FEB 2015
	16 MAR 2015

SHEET TITLE
ODOT DETAILS
SHEET #
CS2.0C



1 SIGN AT OR43 AND SHADY HOLLOW WAY
CS2.0C
1/2" = 1'-0"



General Installation Notes:

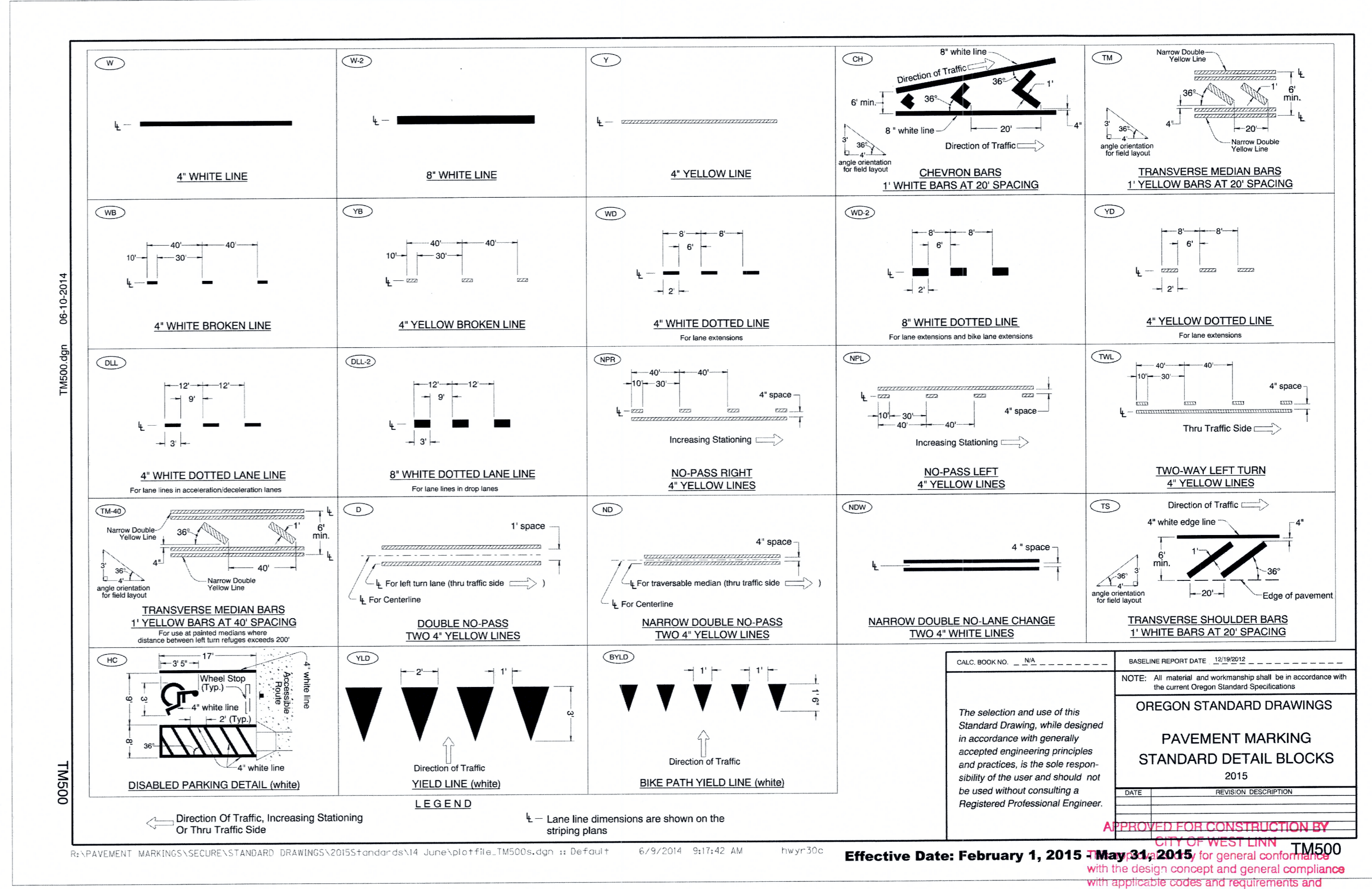
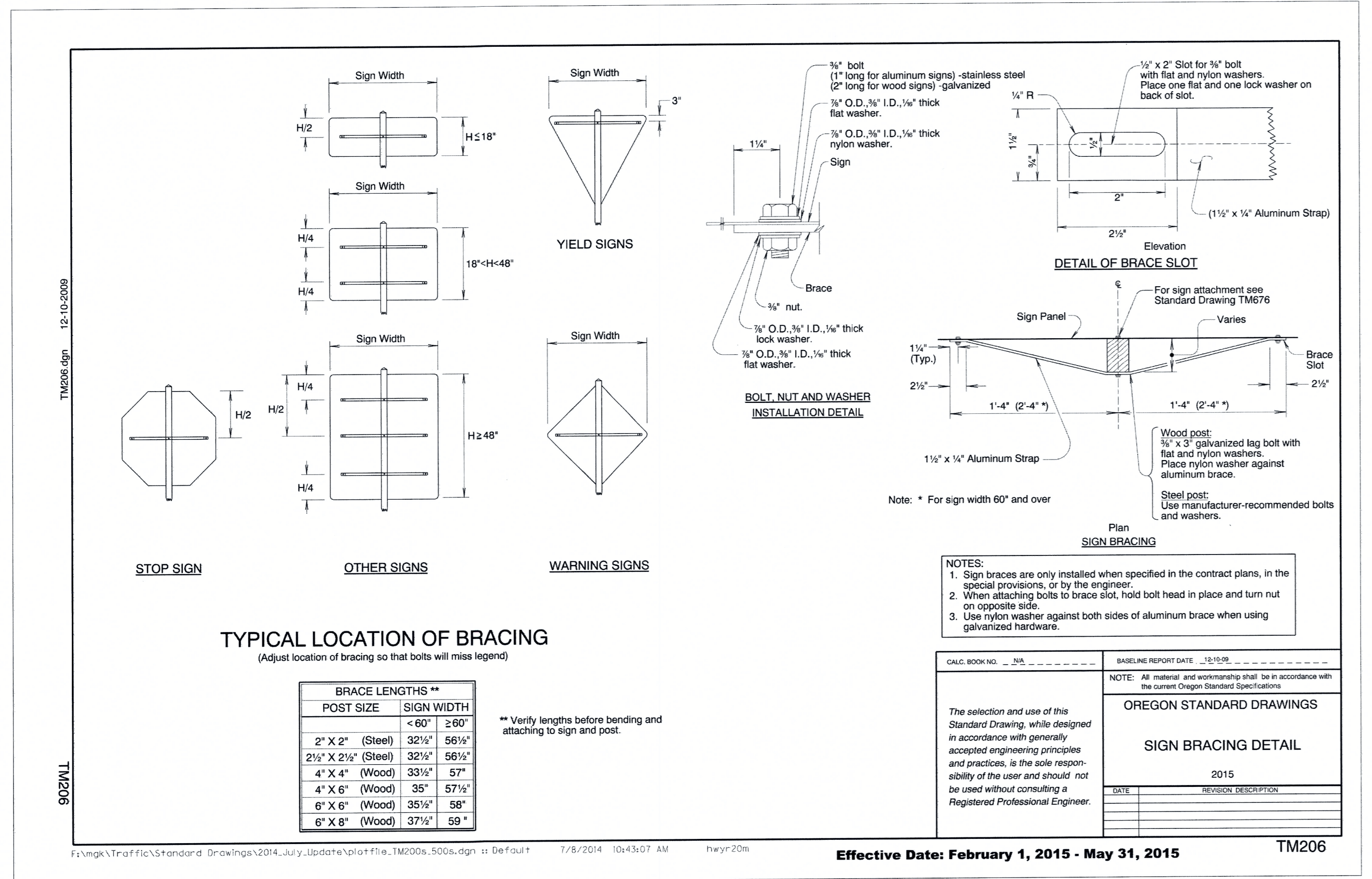
- Signing details shown on this sheet are intended to convey "typical" conditions only. Individual locations may require installation different from those shown. For guidance regarding unique installations or exceptions, call the Project Sign Designer or Region Traffic Section.
- Locate breakaway supports away from ditches to avoid problems with erosion, corrosion, debris, maintenance and breakaway performance. See Dwg. No. TM635 for more information.
- For wood post support details see Dwg. No. TM670.
- For perforated stainless steel tube support details see Dwg. No. TM681.
- For triangular base breakaway support details see Dwg. No. TM602.
- For multi-post breakaway support details see Dwg. No. TM600.
- Mounting heights should not be more than 3 inches more than the minimum heights shown, where practical.
- 2" vertical spacing between all signs.

Notes:

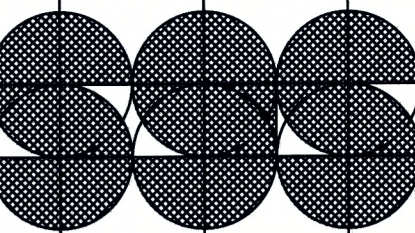
- 6' minimum if behind barrier.
- 2' minimum if restricted RW.
- 20' for ramp terminals.
- 8' minimum if bicycle path underneath.
- 8' minimum if secondary signs attached.
- 5' minimum if outside clearance, in rural areas and no pedestrians underneath.
- For multi-post installations measure distance from post closest to roadway.

OREGON STANDARD DRAWINGS
SIGN INSTALLATION DETAILS
2015

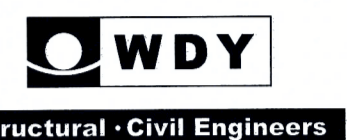
Effective Date: February 1, 2015 - May 31, 2015



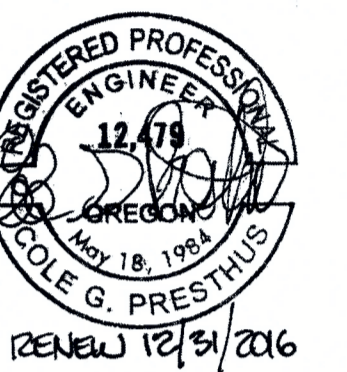
\\WDY\G001\Projects\2014\14029_2\Shady Hollow\work\CS2.0C\Drawings\Standard Drawings\TM200s\000s.dwg, 3/16/2015 2:41:15 PM, kshayama



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WEST LINN, OREGON

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▲	21 OCT 2014	CGP
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▲	23 JAN 2015	CGP
▲	25 FEB 2015	CGP
▲	16 MAR 2015	CGP

SHEET TITLE
ODOT DETAILS

SHEET #
CS2.0D

TM503
PAVEMENT MARKINGS - SECURE STANDARD DRAWINGS 2015 Standards V14 June 1st File: TM503.dgn 11 DeFault 6/9/2014 9:17:45 AM hwy30c

Effective Date: February 1, 2015 - May 31, 2015

**OREGON STANDARD DRAWINGS
PAVEMENT MARKING
STANDARD DETAIL BLOCKS
2015**

General Note:
1. Arrow, letter, and bike symbol dimensions nominal.

LEGEND
Direction of Travel

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.

TM521
PAVEMENT MARKINGS - SECURE STANDARD DRAWINGS 2015 Standards V14 June 1st File: TM503.dgn 11 DeFault 6/9/2014 9:17:45 AM hwy30c

Effective Date: February 1, 2015 - May 31, 2015

**OREGON STANDARD DRAWINGS
DURABLE PAVEMENT MARKINGS
METHOD 'A' & METHOD 'B'
SURFACE & GROOVE INSTALLED
NON-PROFILED
2015**

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TM530
PAVEMENT MARKINGS - SECURE STANDARD DRAWINGS 2015 Standards V14 June 1st File: TM503.dgn 11 DeFault 7/8/2014 10:43:15 AM hwy20m

Effective Date: February 1, 2015 - May 31, 2015

**OREGON STANDARD DRAWINGS
INTERSECTION PAVEMENT
MARKINGS (CROSSWALK,
STOP BAR & BIKE LANE STENCIL)
2015**

General Note:
1. Install crosswalk bars such that the throat of the ADA ramp is entirely within crosswalk markings, or 5' back of extended fog line, edge of pavement, or curb face.

LEGEND
Direction of Travel
Lane line dimensions are shown on the striping plans

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TM539
PAVEMENT MARKINGS - SECURE STANDARD DRAWINGS 2015 Standards V14 June 1st File: TM503.dgn 11 DeFault 6/9/2014 9:17:45 AM hwy30c

Effective Date: February 1, 2015 - May 31, 2015

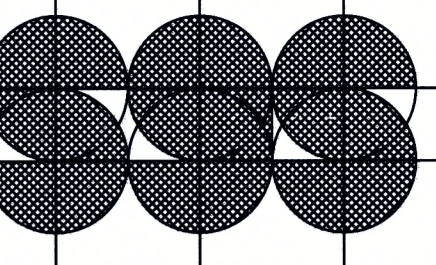
**OREGON STANDARD DRAWINGS
MEDIAN AND LEFT TURN
CHANNELIZATION DETAILS
2015**

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DATE: 3/23/15 BY: [Signature]
ODOT PERMIT REQUIRED PRIOR TO CONSTRUCTION

\\WDY-C0201\Projects\2014\14029 - Shady Hollow\Arch\CS2.0D\Originals\Sheet\Standard\Public\Detail\TM503.dgn 3/16/2015 2:49:01 PM Aubreyanna



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WEST LINN, OREGON

PROJECT NUMBER: 1335

DRAWING	DATE	BY
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SHEET TITLE
ODOT DETAILS

SHEET #
CS2.0E

SIGN ATTACHMENT DETAIL

Reflective sheeting sign face
Nylon washer, nom. 1/4" I.D., 3/8" O.D., 1/8" thick
Hold bolt head in place and turn nut on opposite side, Except for Lag Bolts
1/4" O.D. min. Double Stainless steel ASTM 316 flat washers*

Wood Post, C channel, or Square Tube (Wood Post Shown)
Nut w/ nylon locking feature**
1/4" Galvanized steel bolt inside 1/2" mounting hole (length as required by support)
1/4" O.D. min. ASTM 316 Stainless steel flat washer*

Note:
1) When signs are placed on opposing sides of post, 1/4" x 3" lag bolts can be used instead of through bolt.
2) Use nylon and stainless steel washers when signs are placed on both sides of post.
3) Burr threads at junction with nut when locknuts are not used.
4) Post bolts to extend beyond the tightened nuts within the limits of 1/4" to 1".

* Stainless steel washer with neoprene layer is an acceptable substitute
** Acceptable substitute for nylon locking nuts: ANCO PIN-LOC® TRI-LOC® Top Lock Nut

Effective Date: February 1, 2015 - May 31, 2015

PERMANENT PERFORATED STEEL SQUARE TUBE TABLE

TEMPORARY PERFORATED STEEL SQUARE TUBE TABLE

BASE REQUIREMENTS

GENERAL NOTES:

- Perforated Steel Square Supports are designed in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 4th Edition, 2001, 2002, 2003, and 2008, Interim revisions.
- The sign base wind speed (S) applied shall be according to the wind map shown on TM671.
- Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.
- Use 7/8" diameter holes at 1" spacing on each of the 4 sides.
- Steel post shall have a minimum yield stress of 50 ksi.
- Steel shall be galvanized according to ASTM A653 with coating designation G140.
- General design parameters are $W = 0.95$, $C = 1.25$, and $G = 1.14$.
- Permanent signing uses an $I_r = 0.71$ for a recurrence interval of 10 years.
- Temporary signing uses an $I_r = 0.45$ for a recurrence interval of 1.5 years.
- The sign width to sign height or sign height to sign width ratio shall not exceed 5.0.
- For horizontal and vertical clearances of permanent signs refer to TM200 and of temporary signs refer to TM621.
- Posts protected by barrier or guardrail do not require slip bases.

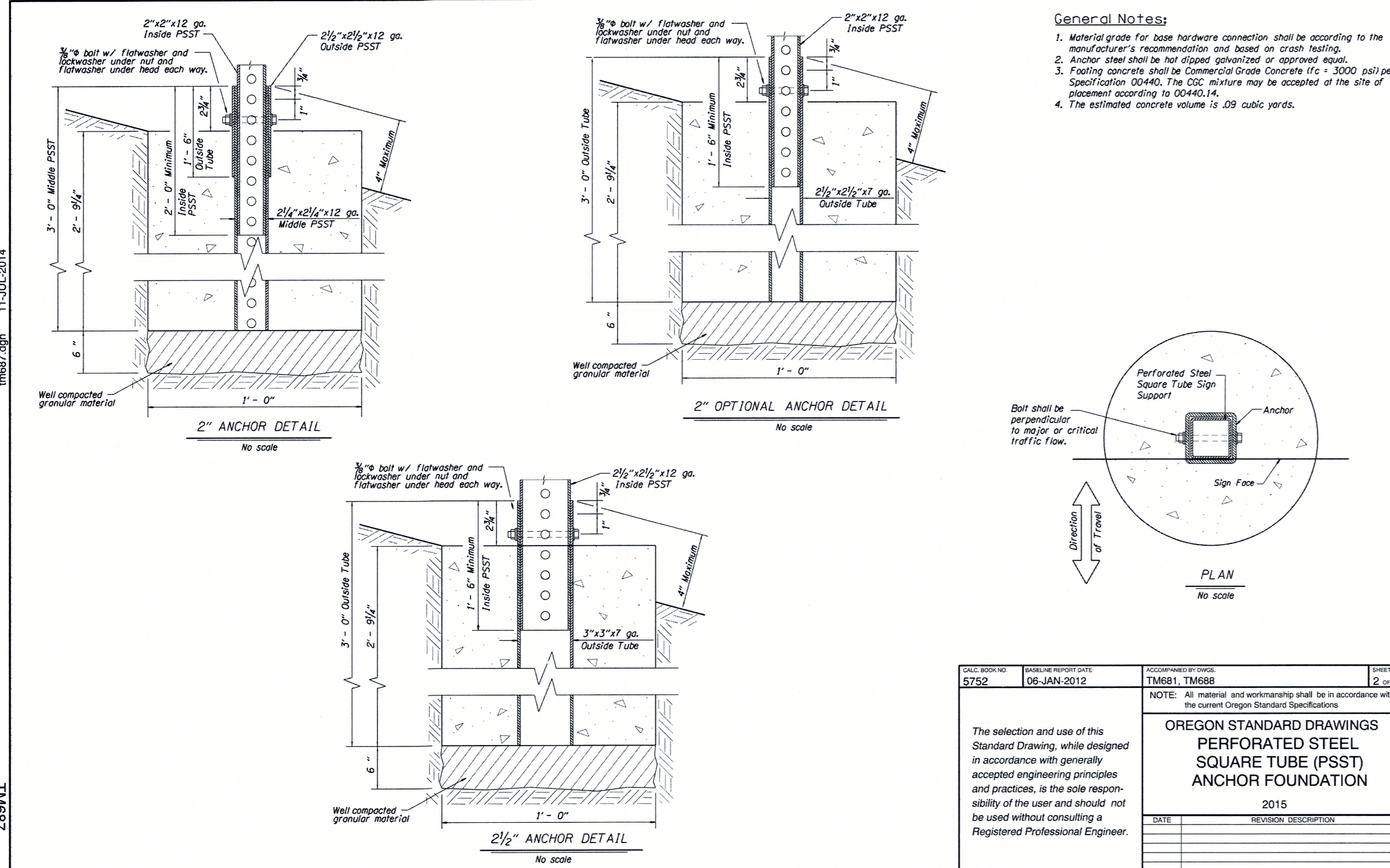
Effective Date: February 1, 2015 - May 31, 2015

TM676 11-JUL-2014

TM681 sign 11-JUL-2014

\\WDY-DC01\Projects\2014\14029_5 Shady Hollow Arch\Coord\Steel\Improvements\CS2.0E\DOT\Public\Steel Imp Details\CS2.0E_14029_Aug_31_14\2015_2:49:51 PM_Muboyama

APPROVED FOR CONSTRUCTION BY
DATE: 03/23/15 BY: [Signature]
ODOT PERMIT REQUIRED PRIOR TO CONSTRUCTION

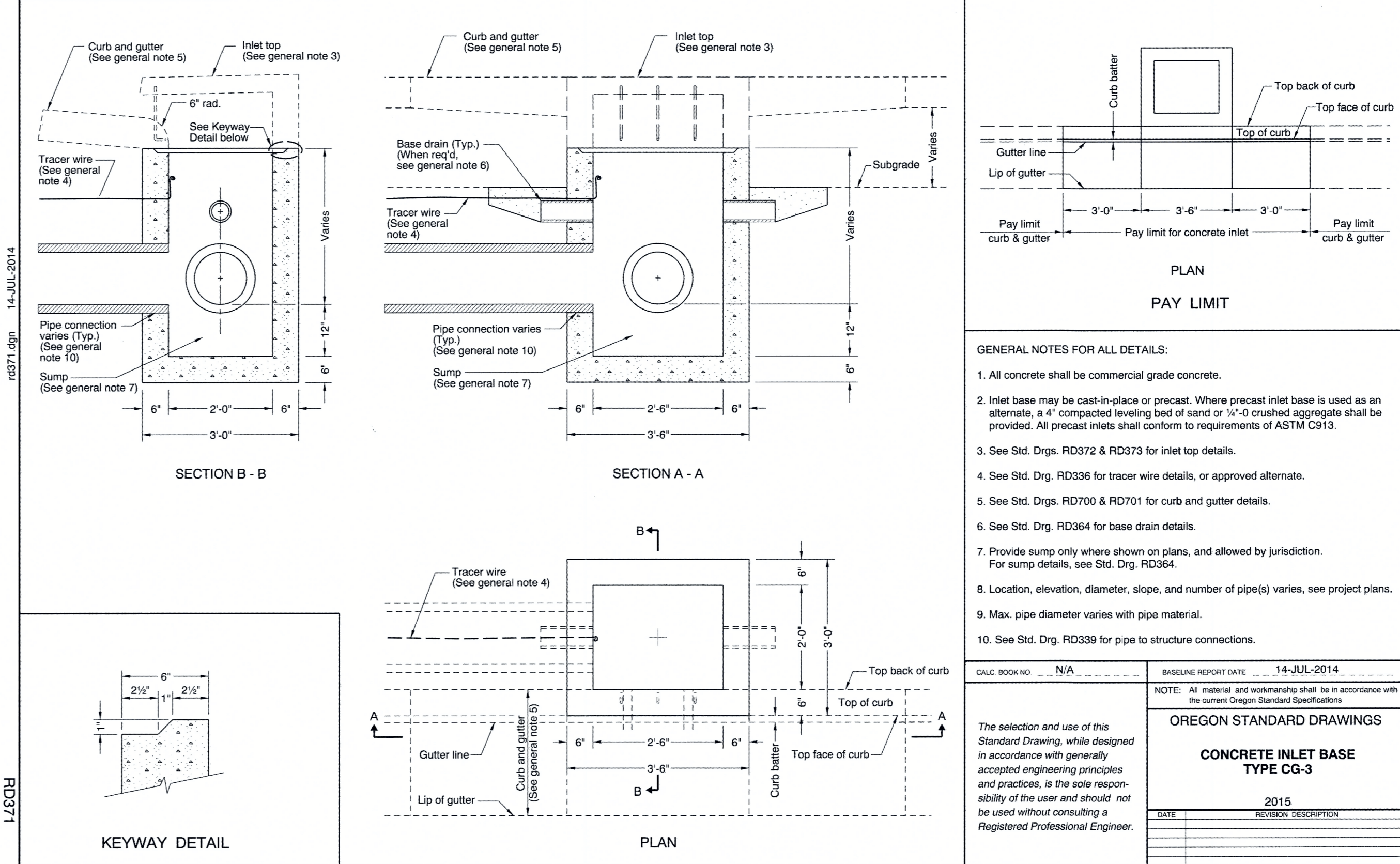


General Notes:

1. Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.
2. Anchor steel shall be hot dipped galvanized or approved equal.
3. Facing concrete shall be Commercial Grade Concrete (fc = 3000 psi) per Specification 00440. The O.C. mixture may be accepted at the site of placement according to 00452.4.
4. The estimated concrete volume is .03 cubic yards.

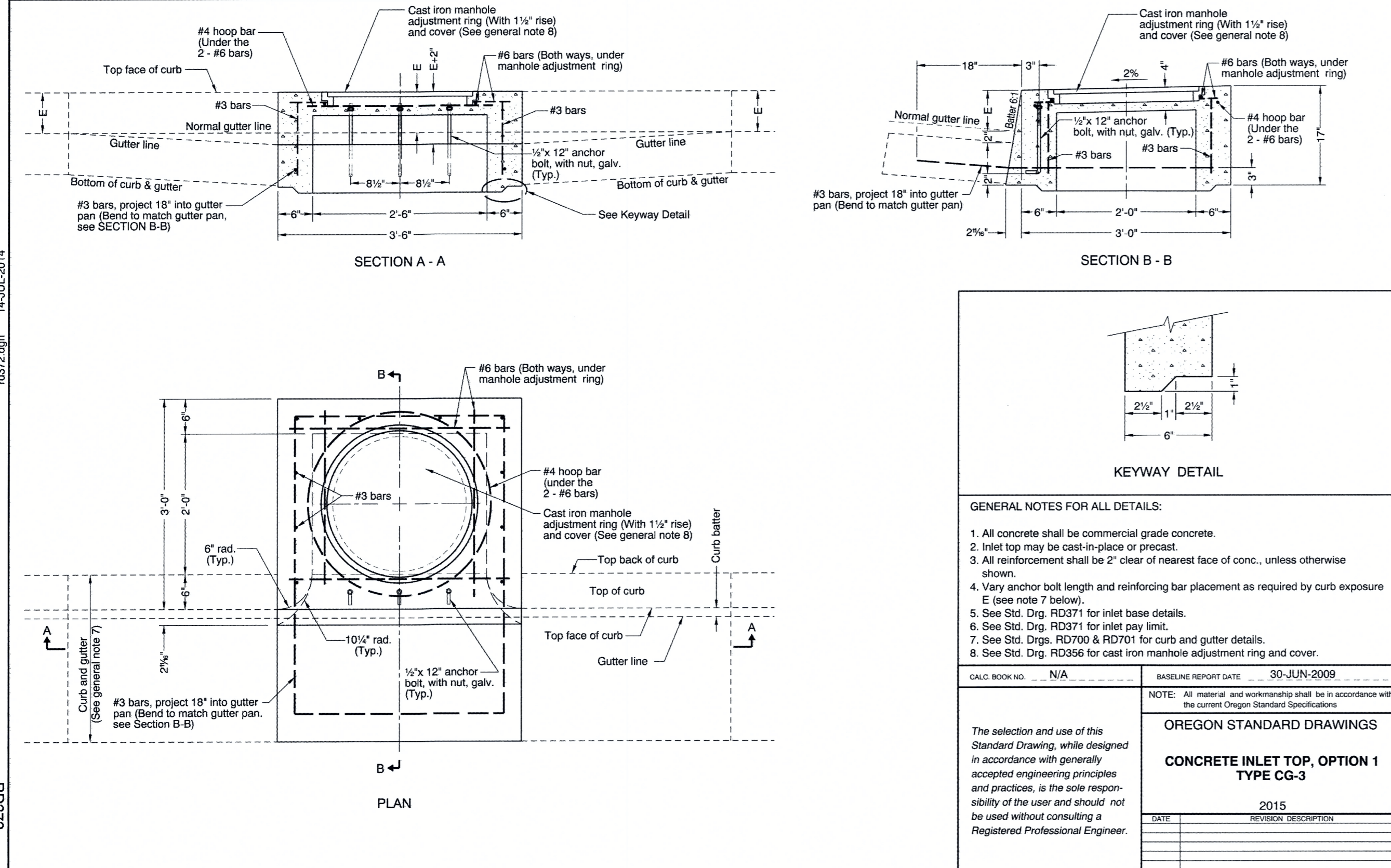
CALC BOOK NO.	5752	BASELINE REPORT DATE	06-JAN-2012	APPROVED FOR PRINT	TM681, TM688	SHEET	2 of 3
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications							
OREGON STANDARD DRAWINGS							
PERFORATED STEEL SQUARE TUBE (PSST) ANCHOR FOUNDATION							
2015							
DATE		REVISION		DESCRIPTION			

Effective Date: February 1, 2015 - May 31, 2015 TM687



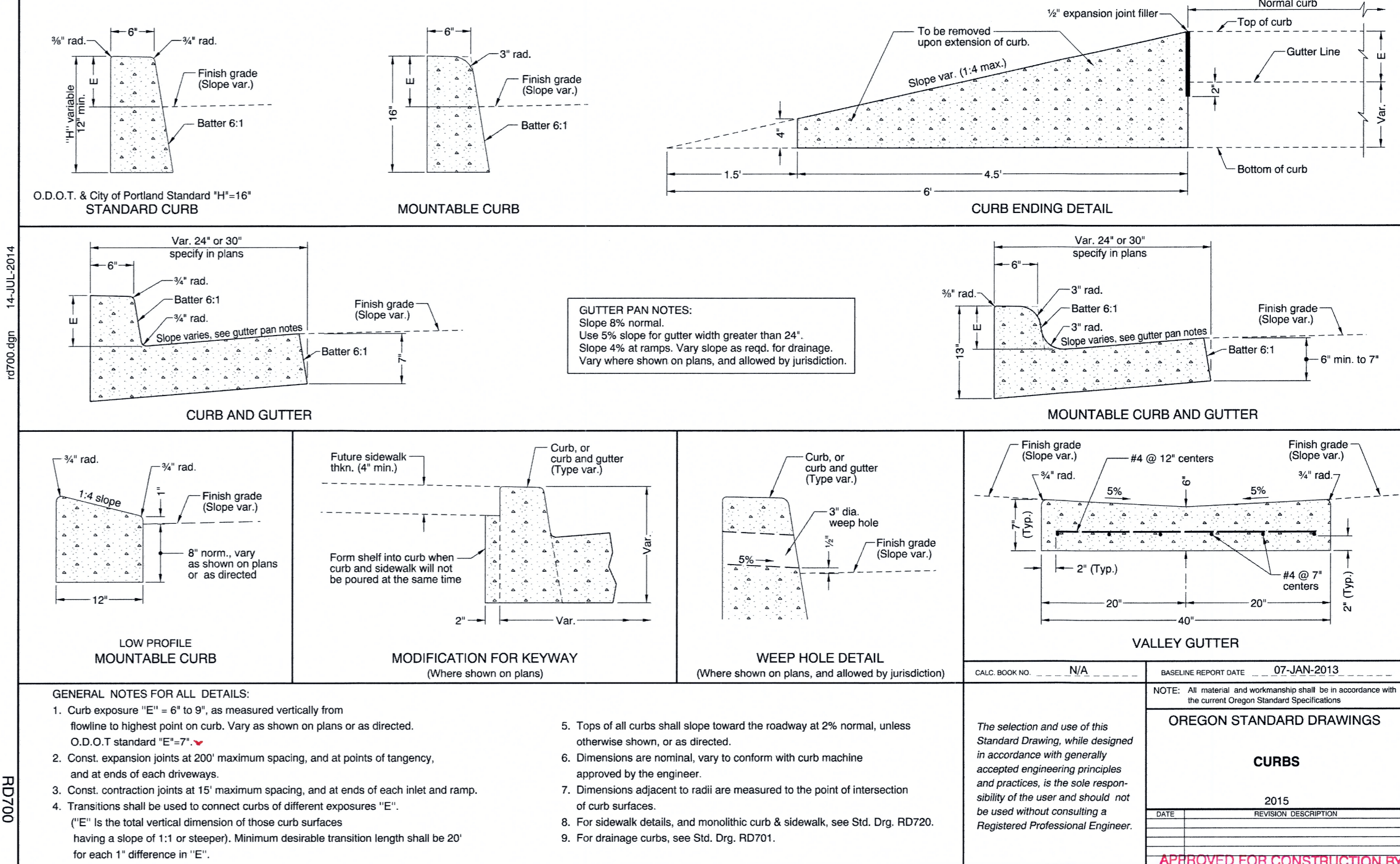
CALC BOOK NO.	N/A	BASELINE REPORT DATE	14-JUL-2014	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
OREGON STANDARD DRAWINGS				
CONCRETE INLET BASE TYPE CG-3				
2015				
DATE		REVISION		DESCRIPTION

Effective Date: February 1, 2015 - May 31, 2015 RD371



CALC BOOK NO.	N/A	BASELINE REPORT DATE	30-JUN-2009	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

Effective Date: February 1, 2015 - May 31, 2015 RD372



GUTTER PAN NOTES:
Slope 6% normal.
Use 5% slope for gutter width greater than 24".
Slope 4% at ramps. Vary slope as req'd. for drainage.
Vary where shown on plans, and allowed by jurisdiction.

CALC BOOK NO.	N/A	BASELINE REPORT DATE	07-JAN-2013	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
OREGON STANDARD DRAWINGS				
CURBS				
2015				
DATE		REVISION		DESCRIPTION

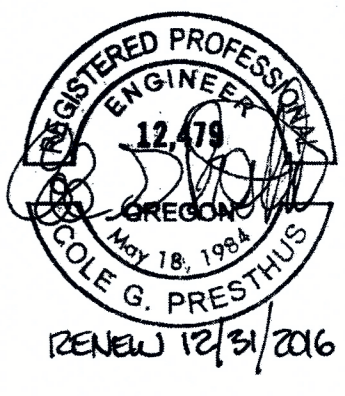
Effective Date: February 1, 2015 - May 31, 2015 OF WEST LIN RD700



STEWART GORDON STRAUS ARCHITECT
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Portland, Oregon 97221
ph.503.203.8111 fx.503.203.8122
www.wdy.com



SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER:	1335	
DRAWING DESIGN	DATE	BY
	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	DATE	BY
	12 MAR 2014	SGS
PERMIT	DATE	BY
	22 AUG 2014	SGS
PLAN CHECKS	DATE	BY
	21 OCT 2014	CGP
	06 JAN 2015	CGP
	23 JAN 2015	CGP
	25 FEB 2015	CGP
	16 MAR 2015	CGP

SHEET TITLE
ODOT DETAILS
SHEET #
CS2.0F

APPROVED FOR CONSTRUCTION BY
This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code corrections in the field.
DATE: 2/24/15 BY: *Khay C. C.*
ODOT PERMIT REQUIRED PRIOR TO CONSTRUCTION

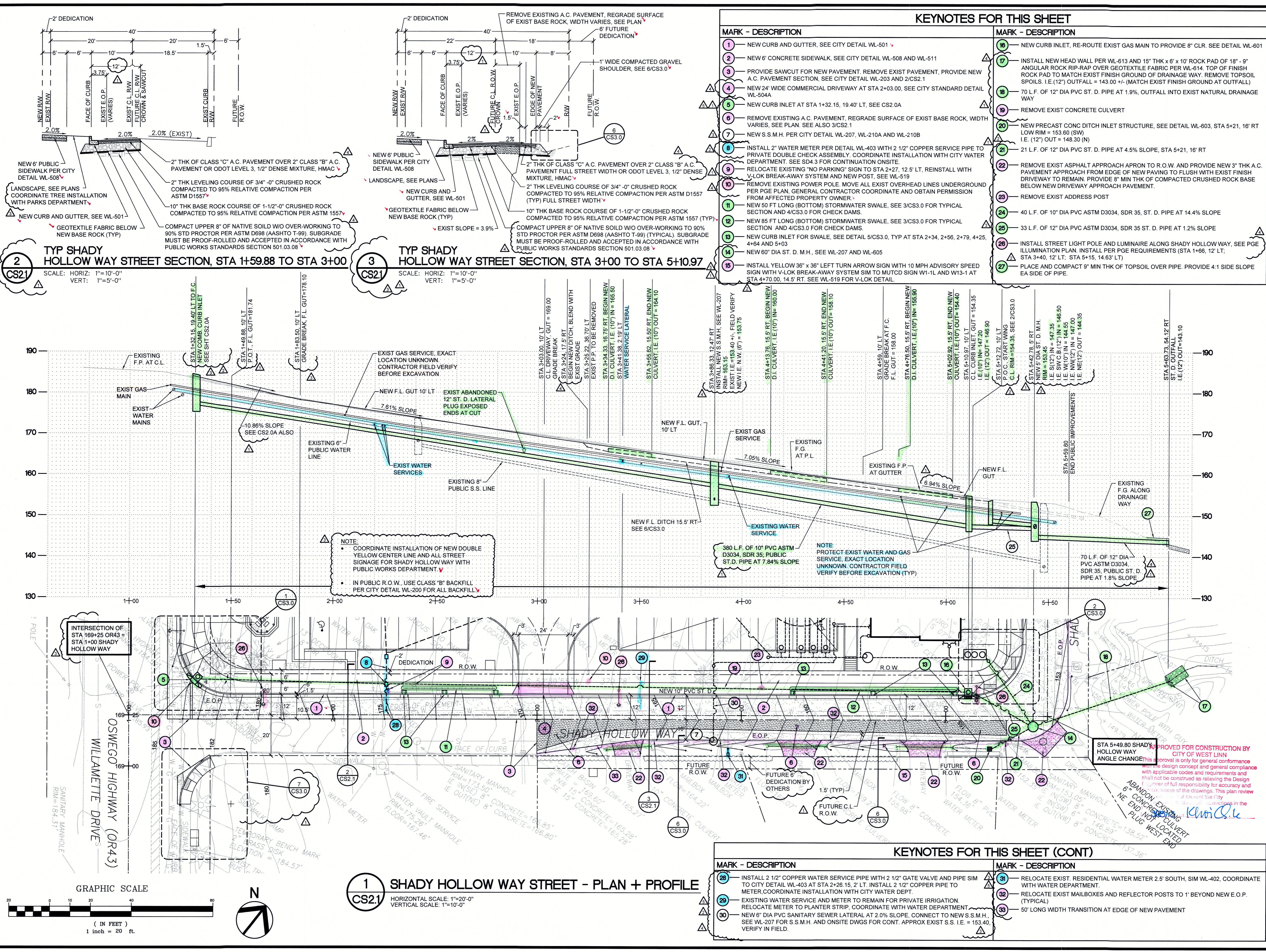
STEWART GORDON STRAUS ARCHITECT
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WDY
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REGISTERED PROFESSIONAL ENGINEER
 GREGORY G. PRESTHUS
 May 18, 1996
 RENEW 12/31/2016

SHADY HOLLOW VILLAGE
 SHADY HOLLOW AND WILLAMETTE DRIVE
 WEST LINN, OREGON

PROJECT NUMBER:	1335
DRAWING DESIGN	DATE BY
	20 NOV 2013 SGS
	11 FEB 2014 SGS
DES REV	DATE BY
	12 MAR 2014 SGS
PERMIT	DATE BY
	22 AUG 2014 SGS
PLAN CHECKS	DATE BY
	30 SEPT 2014 CGP
	21 OCT 2014 CGP
	06 JAN 2015 CGP
	23 JAN 2015 CGP
	25 FEB 2015 CGP
SHEET TITLE	SHADY HOLLOW IMPROVEMENTS
SHEET #	CS2.1



2 TYP SHADY HOLLOW WAY STREET SECTION, STA 1+59.88 TO STA 3+00
 SCALE: HORIZ: 1"=10'-0"
 VERT: 1"=5'-0"

3 TYP SHADY HOLLOW WAY STREET SECTION, STA 3+00 TO STA 5+10.97
 SCALE: HORIZ: 1"=10'-0"
 VERT: 1"=5'-0"

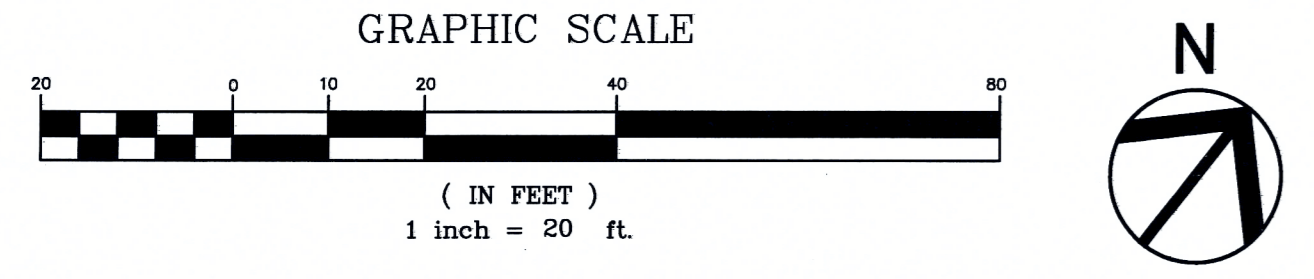
1 SHADY HOLLOW WAY STREET - PLAN + PROFILE
 HORIZONTAL SCALE: 1"=20'-0"
 VERTICAL SCALE: 1"=10'-0"

KEYNOTES FOR THIS SHEET

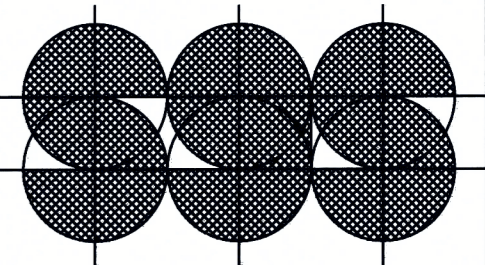
MARK	DESCRIPTION	MARK	DESCRIPTION
1	NEW CURB AND GUTTER. SEE CITY DETAIL WL-501	16	NEW CURB INLET, RE-ROUTE EXIST GAS MAIN TO PROVIDE 8" CLR. SEE DETAIL WL-601
2	NEW 6" CONCRETE SIDEWALK. SEE CITY DETAIL WL-508 AND WL-511	17	INSTALL NEW HEAD WALL PER WL-613 AND 15" THK x 6' x 10' ROCK PAD OF 18" - 9" ANGULAR ROCK RIP-RAP OVER GEOTEXTILE FABRIC PER WL-614. TOP OF FINISH ROCK PAD TO MATCH EXIST FINISH GEOMETRY OF DRAINAGE WAY. REMOVE TOPSOIL SPOILS. I.E. (12") OUTFALL = 143.00 +/- (MATCH EXIST FINISH GROUND AT OUTFALL)
3	PROVIDE SAWCUT FOR NEW PAVEMENT. REMOVE EXIST PAVEMENT, PROVIDE NEW A.C. PAVEMENT SECTION. SEE CITY DETAIL WL-203 AND 2/CS2.1	18	70 L.F. OF 12" DIA PVC ST. D. PIPE AT 1.9% SLOPE, OUTFALL INTO EXIST NATURAL DRAINAGE WAY
4	NEW 24" WIDE COMMERCIAL DRIVEWAY AT STA 2+03.00, SEE CITY STANDARD DETAIL WL-504A	19	REMOVE EXIST CONCRETE CULVERT
5	NEW CURB INLET AT STA 1+32.15, 19.40' LT. SEE CS2.0A	20	NEW PRECAST CONC DITCH INLET STRUCTURE. SEE DETAIL WL-603, STA 5+21, 16' RT LOW RIM = 153.60 (SW) I.E. (12") OUT = 148.30 (N)
6	REMOVE EXISTING A.C. PAVEMENT, REGRADE SURFACE OF EXIST BASE ROCK, WIDTH VARIES. SEE PLAN. SEE ALSO 3/CS2.1	21	21 L.F. OF 12" DIA PVC ST. D. PIPE AT 4.5% SLOPE, STA 5+21, 16' RT
7	NEW S.S.M.H. PER CITY DETAIL WL-207, WL-210A AND WL-210B	22	REMOVE EXIST ASPHALT APPROACH APRON TO R.O.W. AND PROVIDE NEW 3" THK A.C. PAVEMENT APPROACH FROM EDGE OF NEW PAVING TO FLUSH WITH EXIST FINISH DRIVEWAY TO REMAIN. PROVIDE 8" MIN THK OF COMPACTED CRUSHED ROCK BASE BELOW NEW DRIVEWAY APPROACH PAVEMENT.
8	INSTALL 2" WATER METER PER DETAIL WL-403 WITH 2 1/2" COPPER SERVICE PIPE TO PRIVATE DOUBLE CHECK ASSEMBLY. COORDINATE INSTALLATION WITH CITY WATER DEPARTMENT. SEE SD4.3 FOR CONTINUATION ONSITE.	23	REMOVE EXIST ADDRESS POST
9	RELOCATE EXISTING "NO PARKING" SIGN TO STA 2+27, 12.5' LT. REINSTALL WITH V-LOCK BREAK-AWAY SYSTEM AND NEW POST, SEE WL-519	24	40 L.F. OF 10" DIA PVC ASTM D3034, SDR 35, ST. D. PIPE AT 14.4% SLOPE
10	REMOVE EXISTING POWER POLE. MOVE ALL EXIST OVERHEAD LINES UNDERGROUND PER PGE PLAN. GENERAL CONTRACTOR COORDINATE AND OBTAIN PERMISSION FROM AFFECTED PROPERTY OWNER.	25	33 L.F. OF 12" DIA PVC ASTM D3034, SDR 35, ST. D. PIPE AT 1.2% SLOPE
11	NEW 50 FT LONG (BOTTOM) STORMWATER SWALE. SEE 3/CS3.0 FOR TYPICAL SECTION AND 4/CS3.0 FOR CHECK DAMS.	26	INSTALL STREET LIGHT POLE AND LUMINAIRE ALONG SHADY HOLLOW WAY. SEE PGE ILLUMINATION PLAN. INSTALL PER PGE REQUIREMENTS (STA 1+66, 12' LT; STA 3+40, 12' LT; STA 5+15, 14.63' LT)
12	NEW 85 FT LONG (BOTTOM) STORMWATER SWALE. SEE 3/CS3.0 FOR TYPICAL SECTION AND 4/CS3.0 FOR CHECK DAMS.	27	PLACE AND COMPACT 9" MIN THK OF TOPSOIL OVER PIPE. PROVIDE 4:1 SIDE SLOPE EA SIDE OF PIPE.
13	NEW CURB INLET FOR SWALE. SEE DETAIL 5/CS3.0, TYP AT STA 2+34, 2+56, 2+79, 4+25, 4+64 AND 5+03		
14	NEW 60" DIA ST. D. M.H. SEE WL-207 AND WL-605		
15	INSTALL YELLOW 36" x 36" LEFT TURN ARROW SIGN WITH 10 MPH ADVISORY SPEED SIGN WITH V-LOCK BREAK-AWAY SYSTEM SIM TO MUTCD SIGN W1-1L AND W13-1 AT STA 4+70.00, 14.5' RT. SEE WL-519 FOR V-LOCK DETAIL.		

KEYNOTES FOR THIS SHEET (CONT)

MARK	DESCRIPTION	MARK	DESCRIPTION
28	INSTALL 2 1/2" COPPER WATER SERVICE PIPE WITH 2 1/2" GATE VALVE AND PIPE SIM TO CITY DETAIL WL-403 AT STA 2+26.15, 2' LT. INSTALL 2 1/2" COPPER PIPE TO METER. COORDINATE INSTALLATION WITH CITY WATER DEPT.	31	RELOCATE EXIST. RESIDENTIAL WATER METER 2.5' SOUTH, SIM WL-402, COORDINATE WITH WATER DEPARTMENT.
29	EXISTING WATER SERVICE AND METER TO REMAIN FOR PRIVATE IRRIGATION. RELOCATE METER TO PLANTER STRIP. COORDINATE WITH WATER DEPARTMENT	32	RELOCATE EXIST MAILBOXES AND REFLECTOR POSTS TO 1' BEYOND NEW E.O.P. (TYPICAL)
30	NEW 6" DIA PVC SANITARY SEWER LATERAL AT 2.0% SLOPE. CONNECT TO NEW S.S.M.H. SEE WL-207 FOR S.S.M.H. AND ONSITE DWGS FOR CONT. APPROX EXIST S.S. I.E. = 153.40. VERIFY IN FIELD.	33	50' LONG WIDTH TRANSITION AT EDGE OF NEW PAVEMENT



STA 5+49.80 SHADY HOLLOW WAY APPROVED FOR CONSTRUCTION BY CITY OF WEST LINN
 ANGLE CHANGE
 This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and correctness of the drawings. This plan review is not a guarantee of the City of West Linn's compliance in the construction of the project.
 K. W. C. L.



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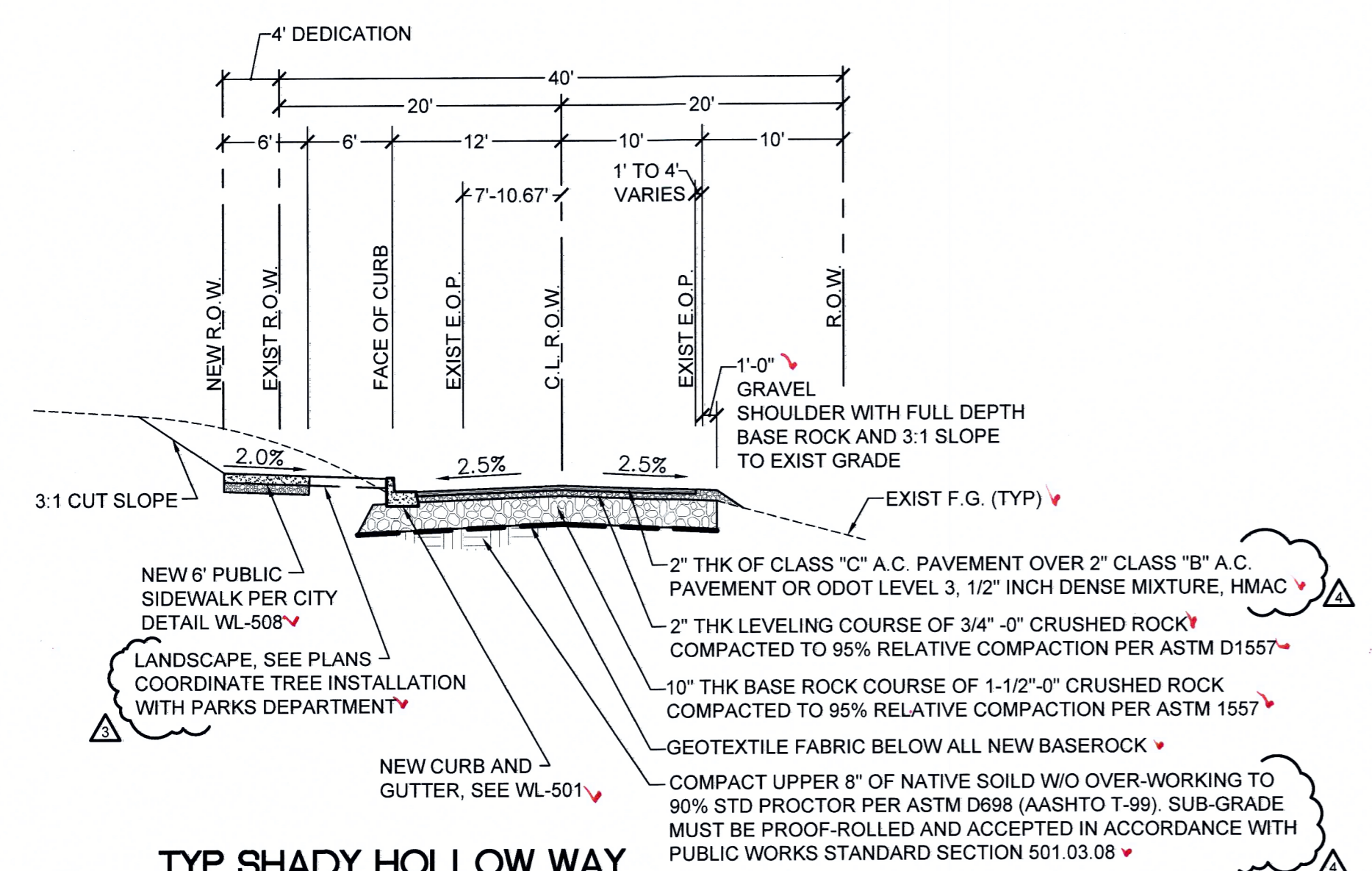
SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER: 1335

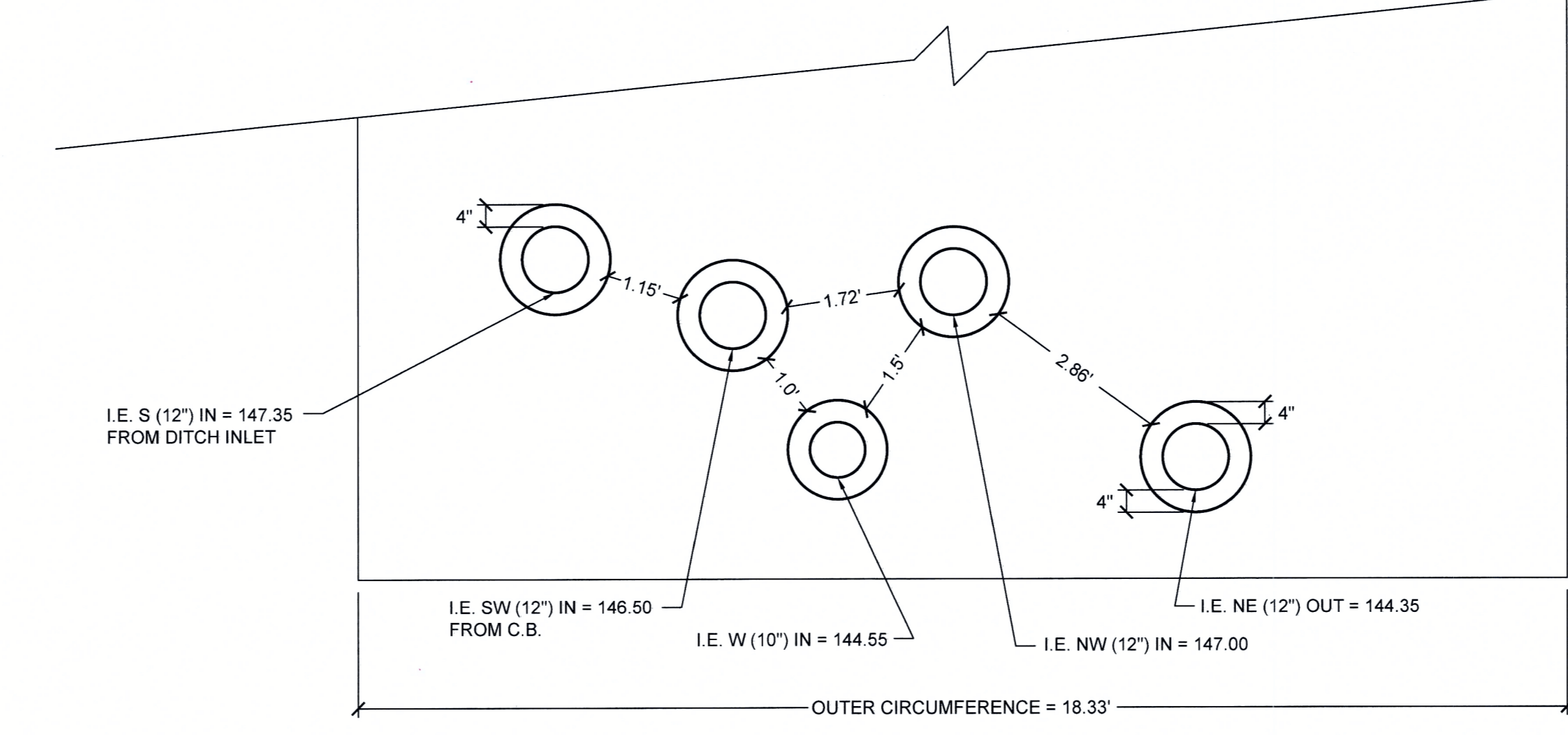
DRAWING DESIGN	DATE	BY
	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV		
	12 MAR 2014	SGS
PERMIT		
	22 AUG 2014	SGS
PLAN CHECKS		
	30 SEPT 2014	CGP
	21 OCT 2014	CGP
	06 JAN 2015	CGP
	23 JAN 2015	CGP
	25 FEB 2015	CGP

SHEET TITLE
SHADY HOLLOW IMPROVEMENTS

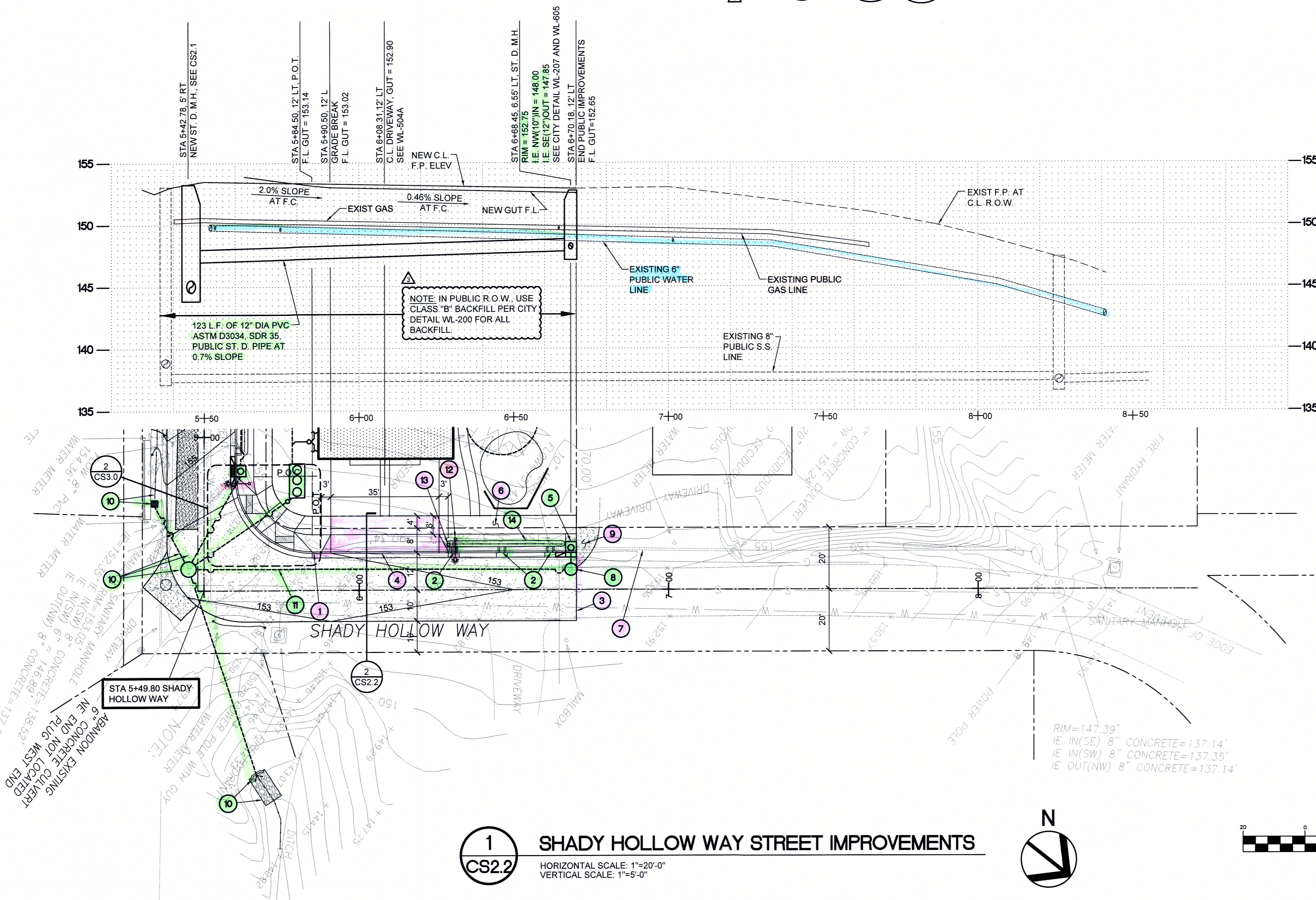
SHEET #
CS2.2



2 TYP SHADY HOLLOW WAY STREET SECTION, STA 5+49.80 TO STA 6+70.18
SCALE: HORIZ: 1"=10'-0"
VERT: 1"=5'-0"



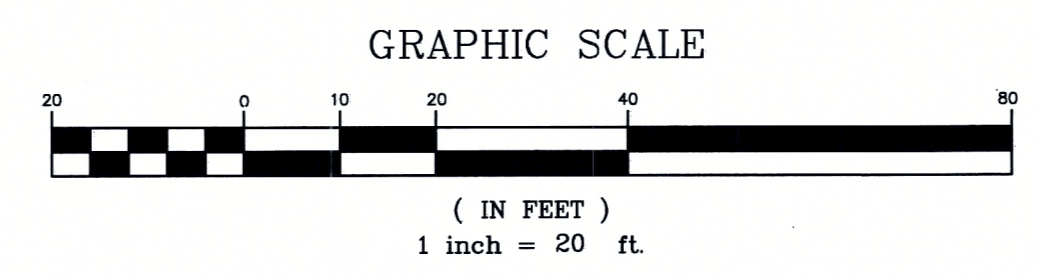
3 SHADY HOLLOW 60" ST. D. M.H. AT STA 5+42.78, 5' RT
SCALE: 1/2"=1'-0"



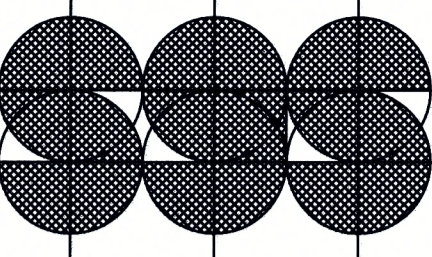
KEYNOTES FOR THIS SHEET

MARK	DESCRIPTION
1	NEW CURB AND GUTTER, SEE DETAIL WL-501 AND 2/CS2.2
2	CURB INLET AT SWALES, SEE 5/CS3.0 (TYP), AT STA 6+32.00, STA 6+47.00 AND STA 6+61.00
3	PROVIDE SAWCUT FOR NEW PAVEMENT AND REMOVE EXISTING PAVEMENT. PROVIDE NEW A.C. PAVEMENT SECTION PER 2/CS2.2. SEE ALSO CITY DETAIL WL-203.
4	NEW 35' WIDE COMMERCIAL DRIVEWAY AT STA 6+08.31, SEE CITY STANDARD DETAIL WL-504A
5	NEW CURB INLET AT STA 6+68.45, SEE DETAIL WL-600, C.L. RIM = 152.85 I.E. (10") OUT = 148.10
6	NEW 6" CONCRETE SIDEWALK, SEE CITY DETAIL WL-508 AND WL-511
7	ABANDON IN PLACE EXIST 8" CONCRETE CULVERT
8	NEW ST. D. M.H., SEE WL-207 AND WL-605 FOR DETAIL
9	INSTALL 2 1/2" THICK A.C. PAVEMENT CONNECTION PATH OVER 8" MIN. THICK OF 3/4" - 0" COMPACTED BASE ROCK OVER GEOTEXTILE FABRIC AT SUBGRADE. PROVIDE HOT ASPHALT SEAL AND SANDED FINISH OVER JOINT TO NEW AND EXIST A.C. EDGES.
10	SEE SHT CS2.1 FOR NEW ST. D. IMPROVEMENTS AT INTERSECTION.
11	123 L.F. OF 12" DIA PVC ASTM 3034, SDR 35, ST. D. PIPE AT 0.7% SLOPE
12	INSTALL STREET LIGHT POLE AND LUMINAIRE ALONG SHADY HOLLOW DRIVE PER PGE REQUIREMENTS, SEE ILLUMINATION PLAN. (STA 6+31, 16.5' LT)
13	INSTALL 36" x 36" YELLOW RIGHT TURN ARROW SIGN WITH 10 MPH ADVISORY SPEED SIGN WITH V-LOK BREAK-AWAY SYSTEM SIM TO MUTCD SIGN W1-1R AND W13-1 AT STA 6+28.80, 14.5' LT. SEE WL-519 FOR V-LOK DETAIL.
14	NEW 37 FT LONG (BOTTOM) STORMWATER SWALE, SEE 3/CS3.0 FOR TYPICAL SECTION AND 4/CS3.0 FOR CHECK DAMS.

1 SHADY HOLLOW WAY STREET IMPROVEMENTS
HORIZONTAL SCALE: 1"=20'-0"
VERTICAL SCALE: 1"=5'-0"



APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review does not prevent the City Engineer from requiring further code corrections in the field.
DATE: 3/23/15 BY: Kluon C.E.



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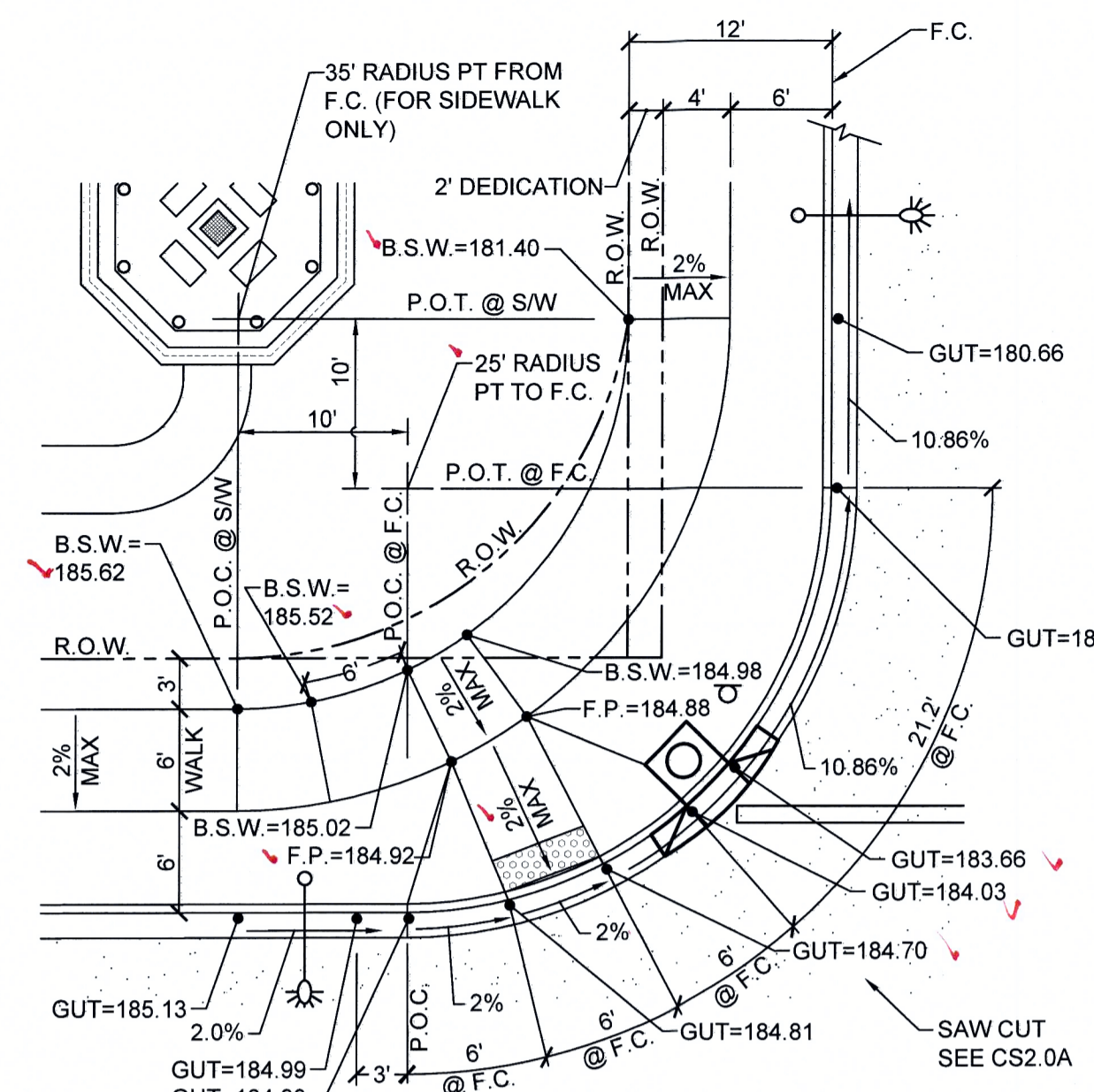


SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER: 1335		
DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	DATE	BY
	12 MAR 2014	SGS
PERMIT	DATE	BY
	22 AUG 2014	SGS
PLAN CHECKS	DATE	BY
	30 SEPT 2014	CGP
	21 OCT 2014	CGP
	06 JAN 2015	CGP
	23 JAN 2015	CGP
	25 FEB 2015	CGP

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
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3/23/15, *Khari Cole*

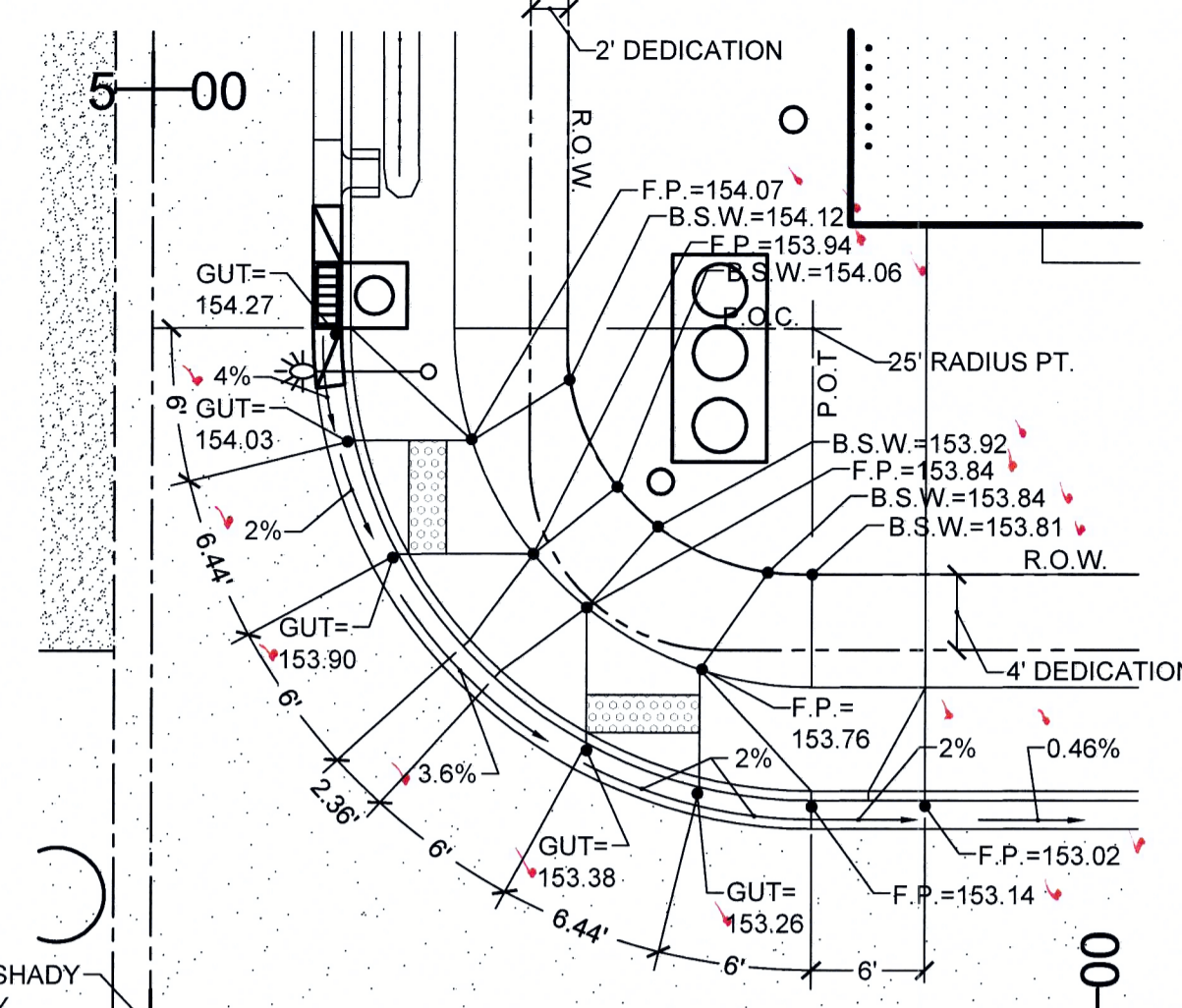
SHEET TITLE
WDY SECTION DETAILS
SHEET #
CS3.0



CURB RETURN CURVE DATA
R=25'
DELTA=90 DEG.
L=39.20'
CHORD=35.30'

NEW CURB RAMP
ODOT RD 757, SIM OPTION "L"

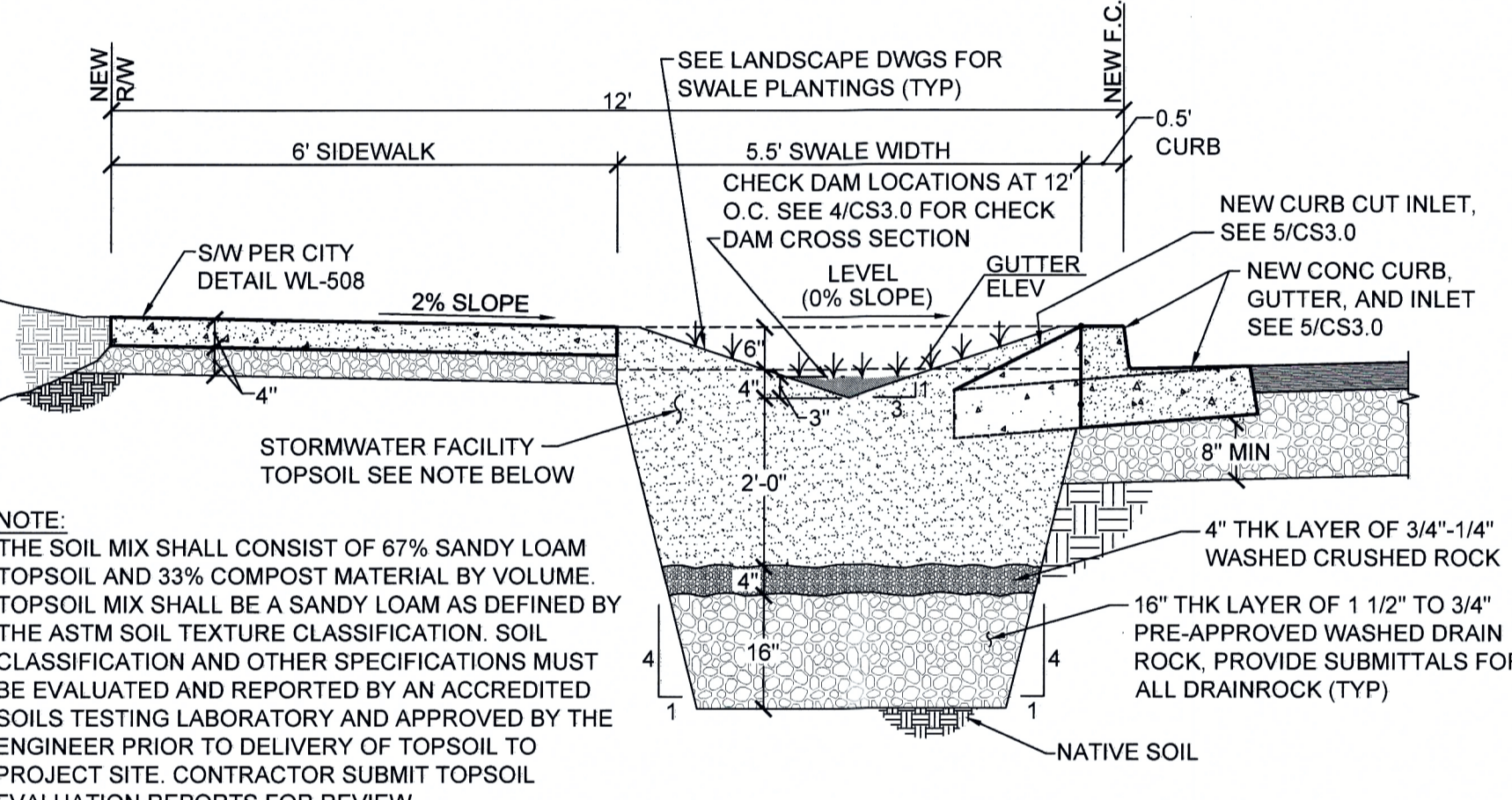
1 OR43 AND SHADY HOLLOW WAY CURB RETURN AND RAMP (N.E. CORNER)
1" = 10'-0"



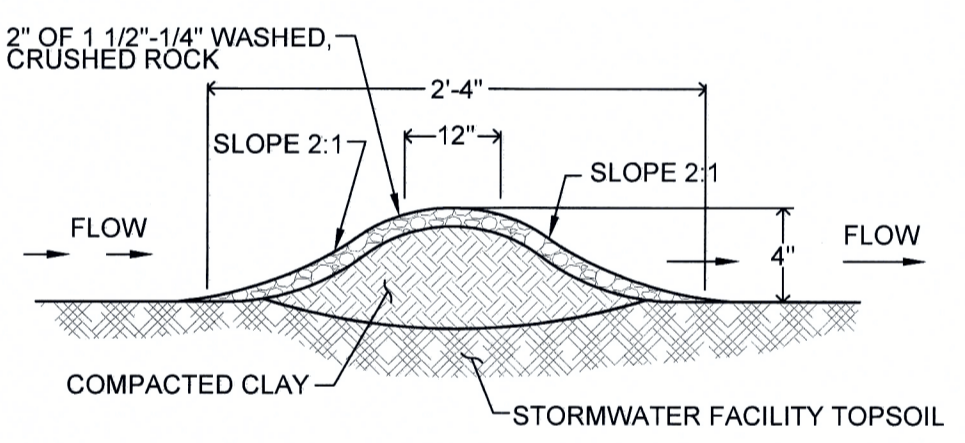
CURVE DATA
CURVE AT F.C.
R=25'
DELTA=90 DEG.
L=39.24'
CHORD=35.35'

NEW TWIN CURB RAMP PER WL-507B

2 SHADY HOLLOW WAY CURB RAMP
1" = 10'-0"

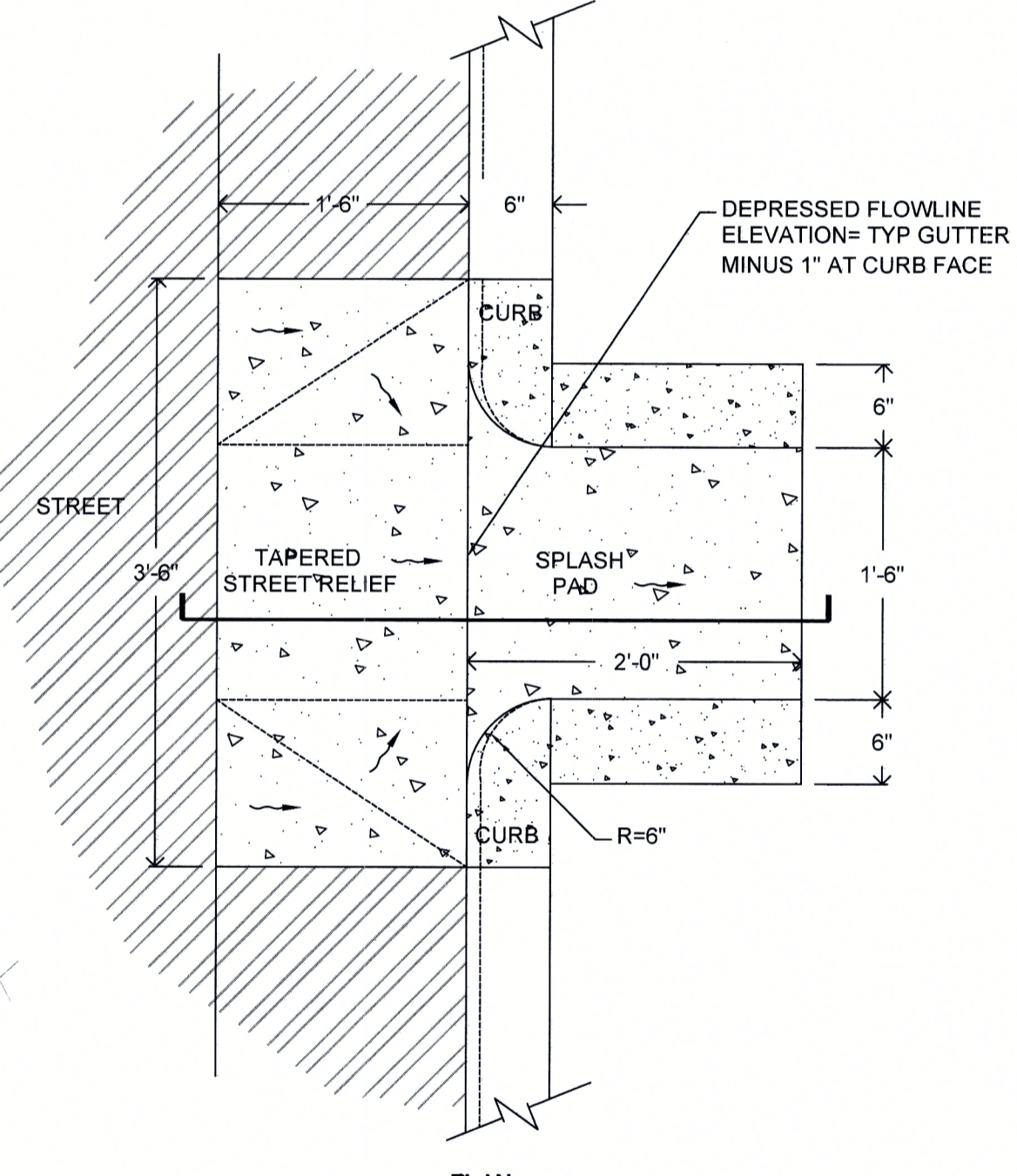


3 TYPICAL STREET SWALE SECTION
1/2" = 1'-0"

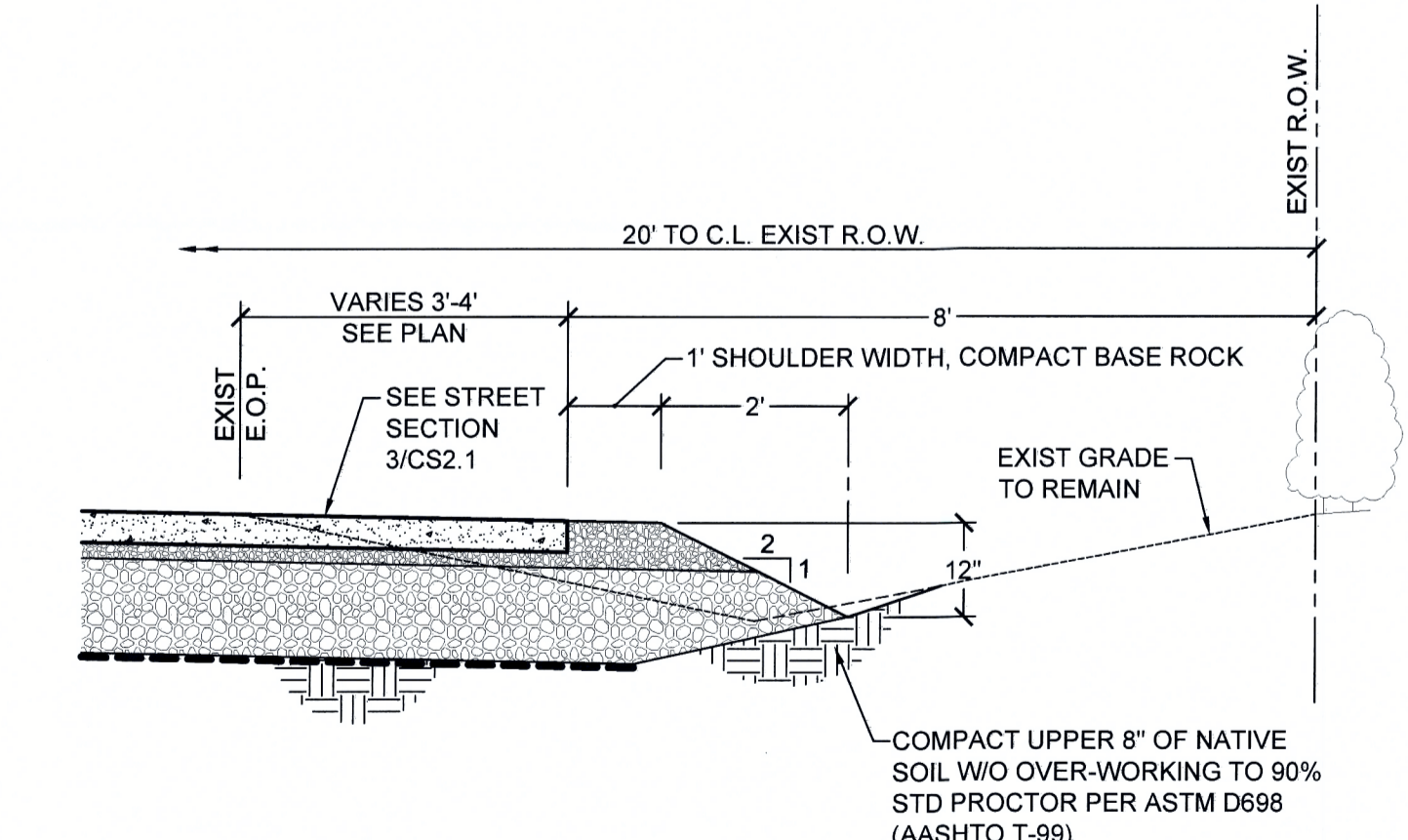


4 SWALE CHECK DAM DETAIL
N.T.S.

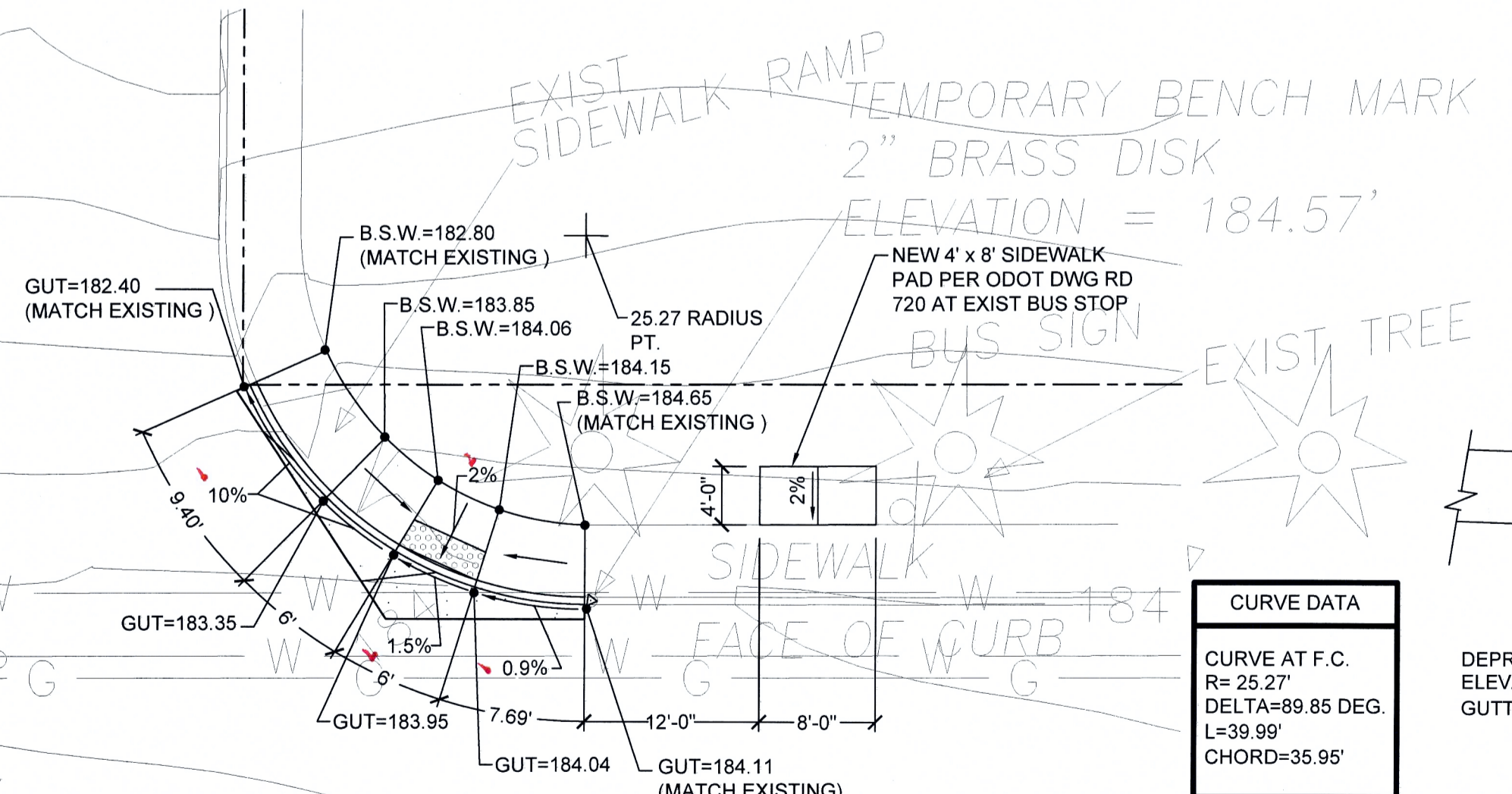
NOTE: CHECK DAMS ARE REQUIRED IN SWALES TO ALLOW WATER TO POOL AND INFILTRATE INTO THE GROUND. THEY SHALL BE CONSTRUCTED OF DURABLE, NON-TOXIC MATERIALS SUCH AS ROCK AND SOIL BY INTEGRATING THESE MATERIALS INTO THE GRADING OF THE SWALE. CHECK DAMS ARE AS LONG AS THE WIDTH OF THE SWALE, PERPENDICULAR TO FLOW LINE. THEY GENERALLY FORM A 12 INCH WIDE BENCH ON TOP AND MEASURE 4 TO 10 INCHES HIGH, DEPENDING ON THE DEPTH OF THE FACILITY. SPACING OF CHECK DAMS IS 12 FT O.C.



5 CURB INLET AT SWALES
1" = 1'-0"



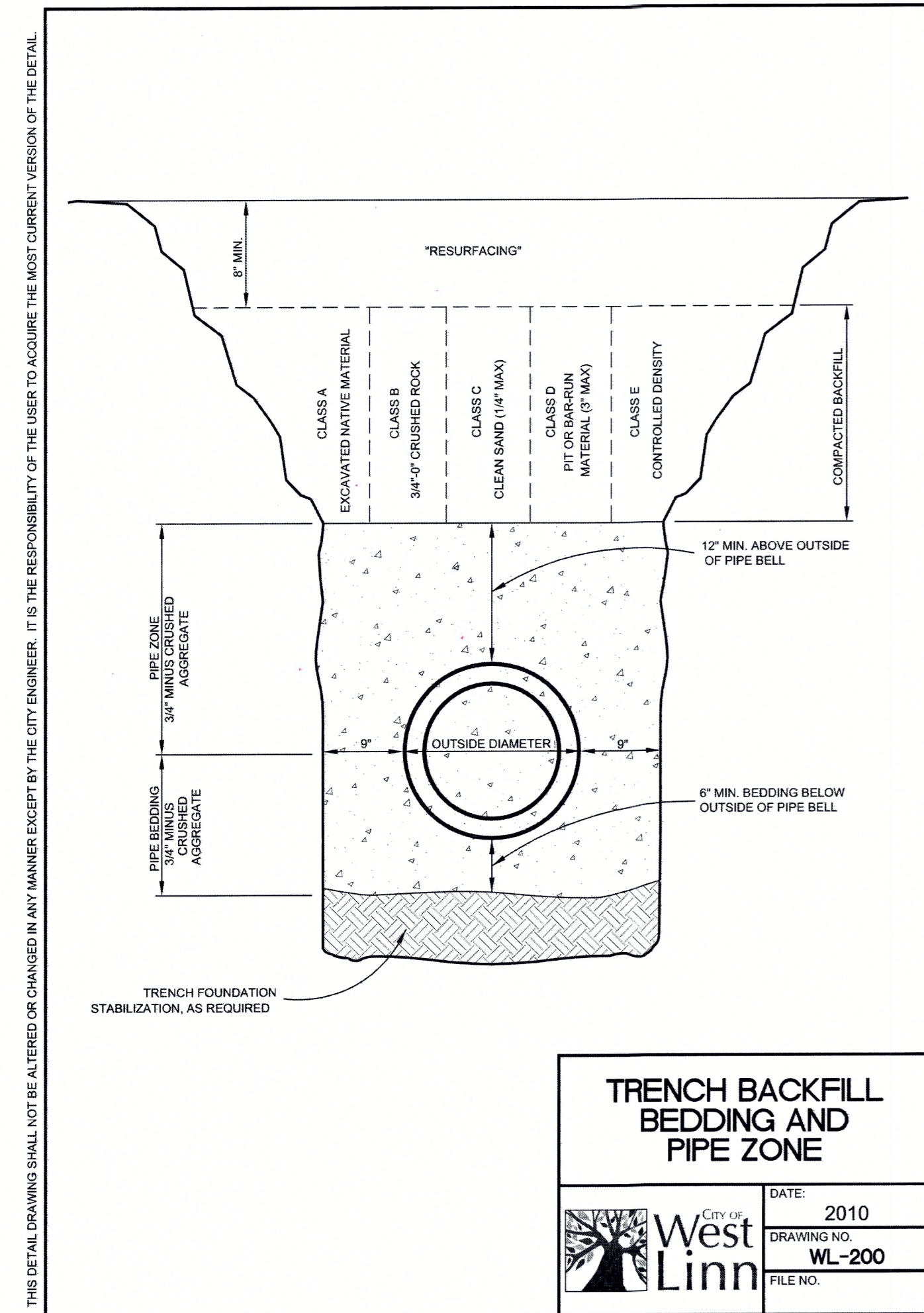
6 TYPICAL STREET DITCH SECTION
1/2" = 1'-0"



7 BURGERVILLE CURB RAMP - ODOT STD DWG RD 757, OPTION K (SE CORNER OF OR43 AND SHADY HOLLOW WAY)
1" = 10'-0"

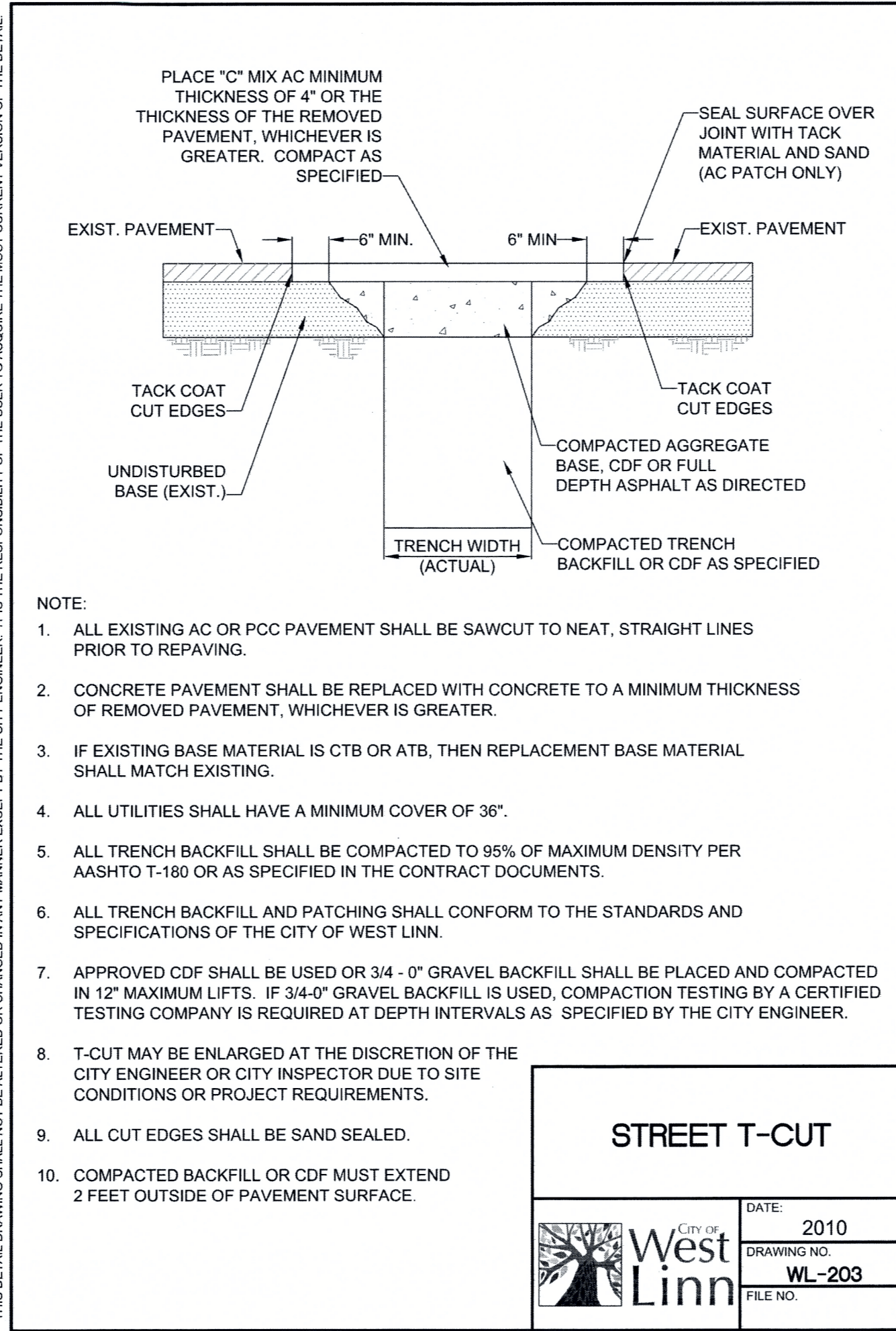
CURVE DATA
CURVE AT F.C.
R=25.27'
DELTA=89.85 DEG.
L=39.99'
CHORD=35.95'

5 CURB INLET AT SWALES
1" = 1'-0"



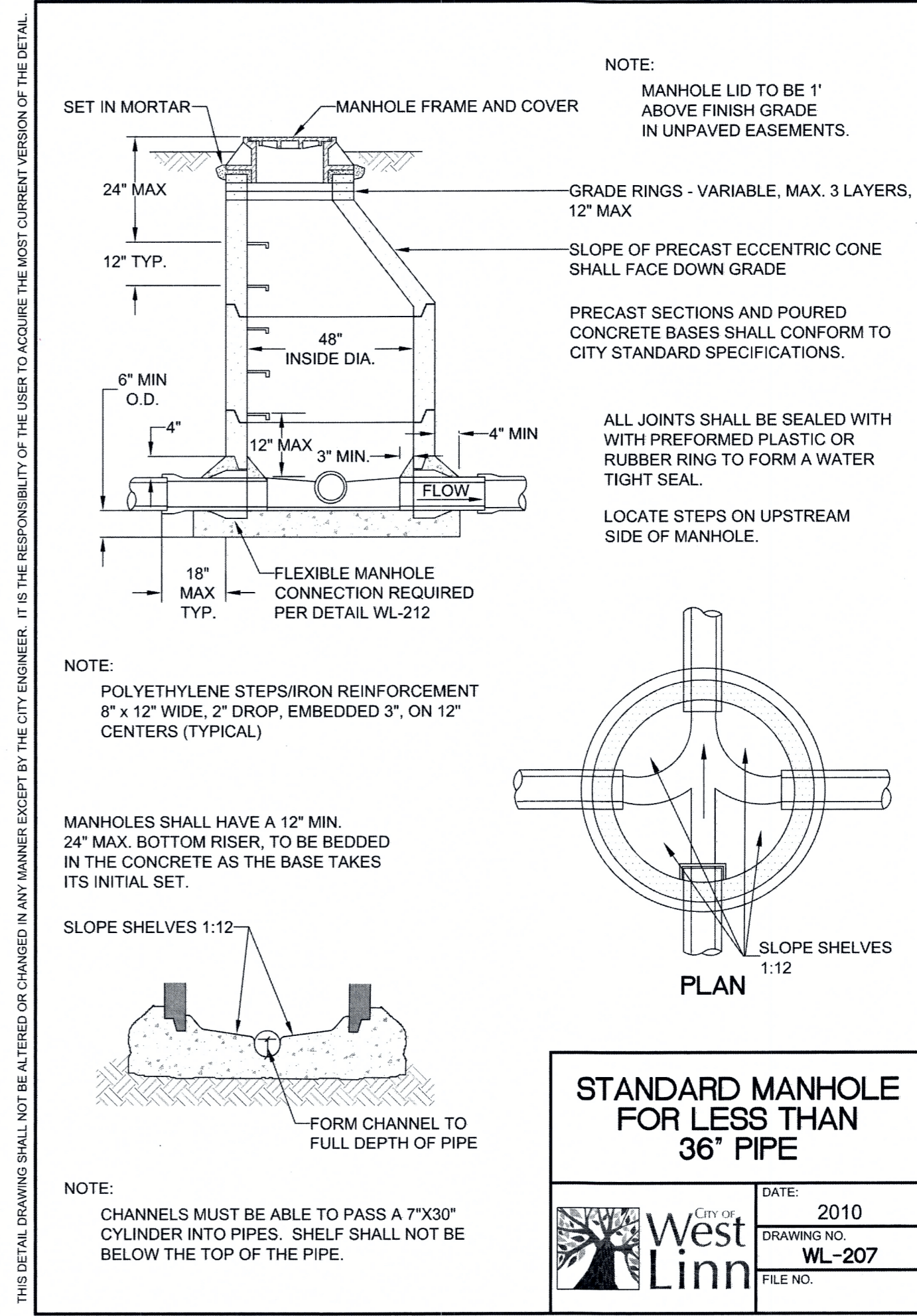
TRENCH BACKFILL BEDDING AND PIPE ZONE

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

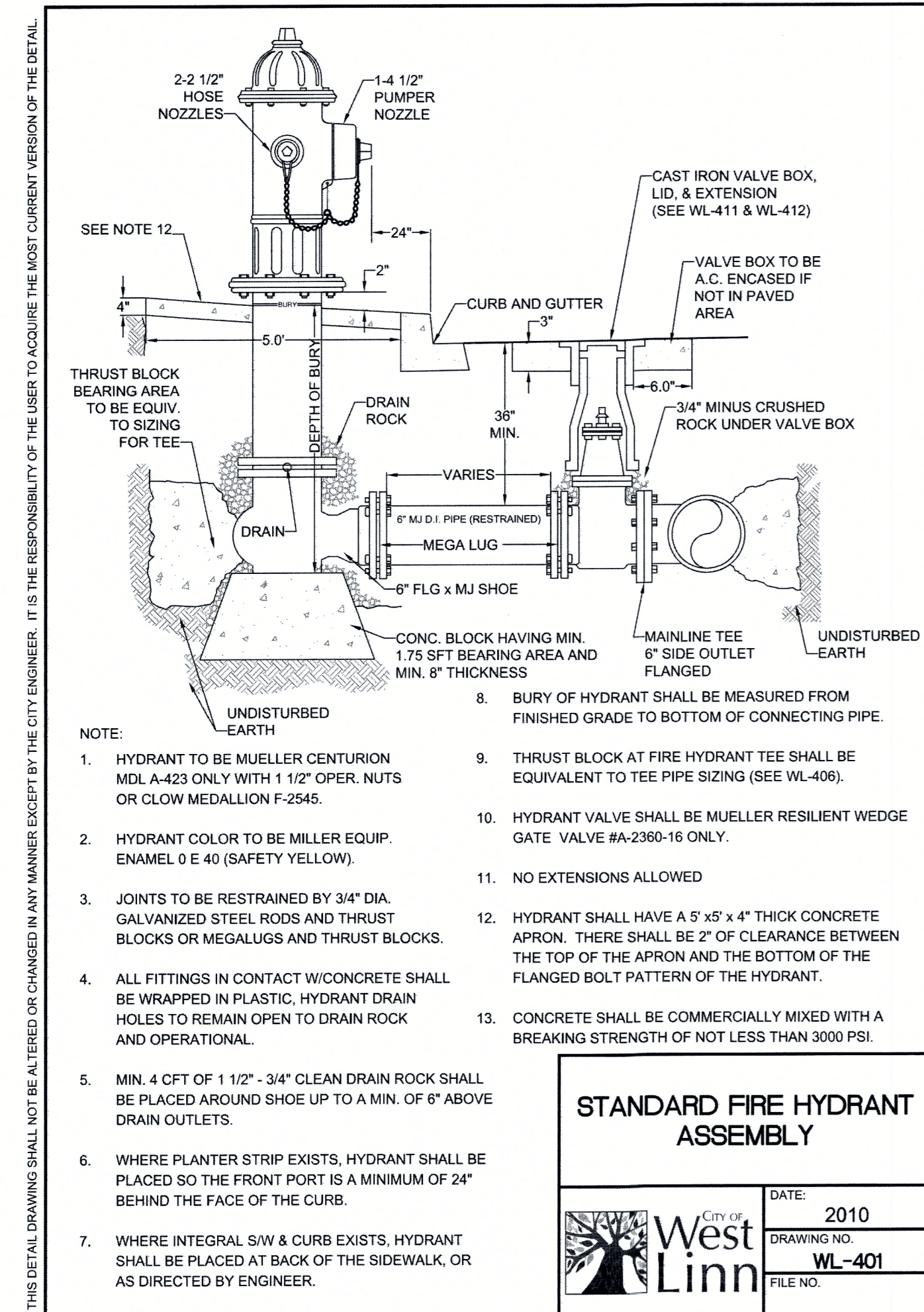


STREET T-CUT

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

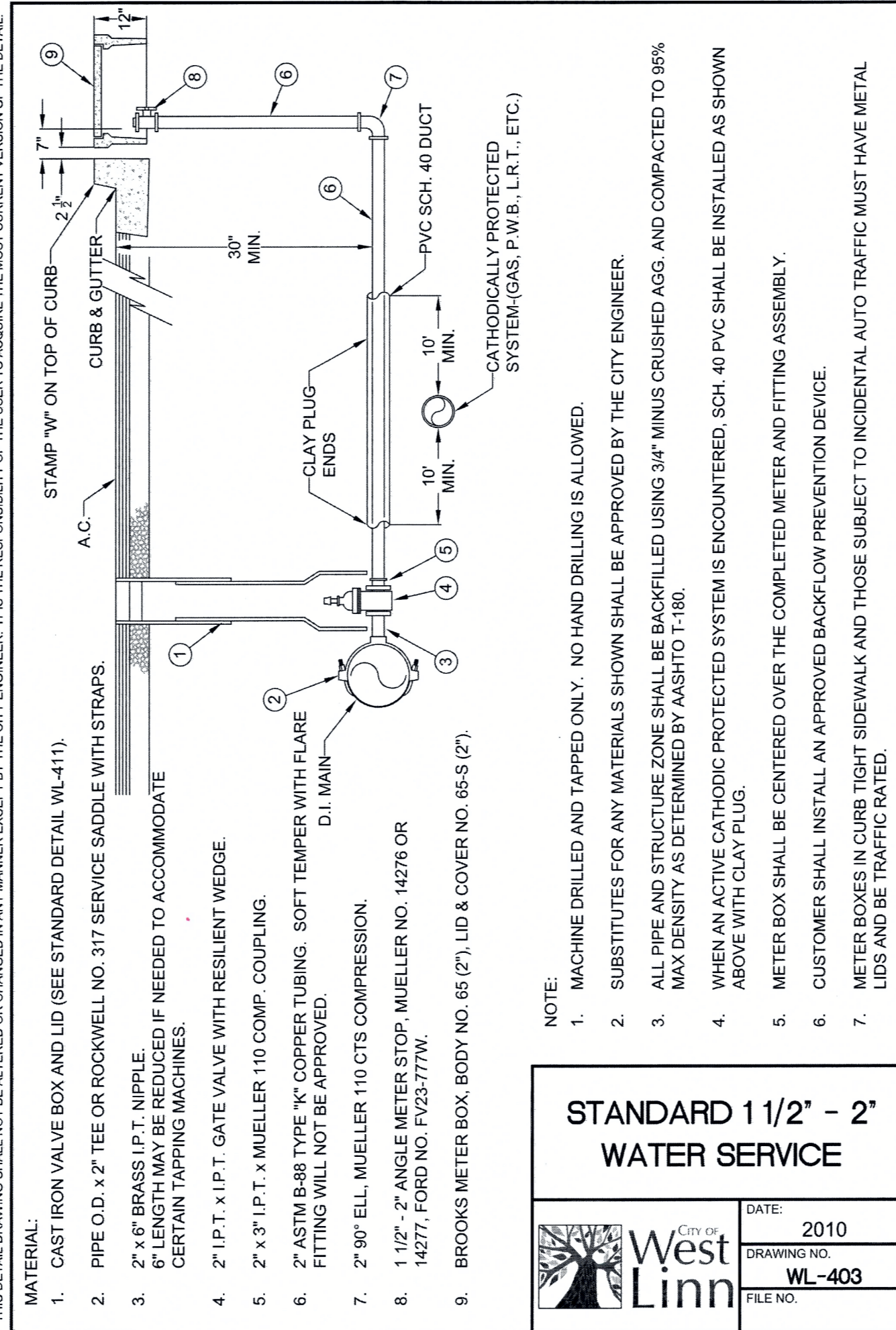


STANDARD MANHOLE FOR LESS THAN 36\"/>

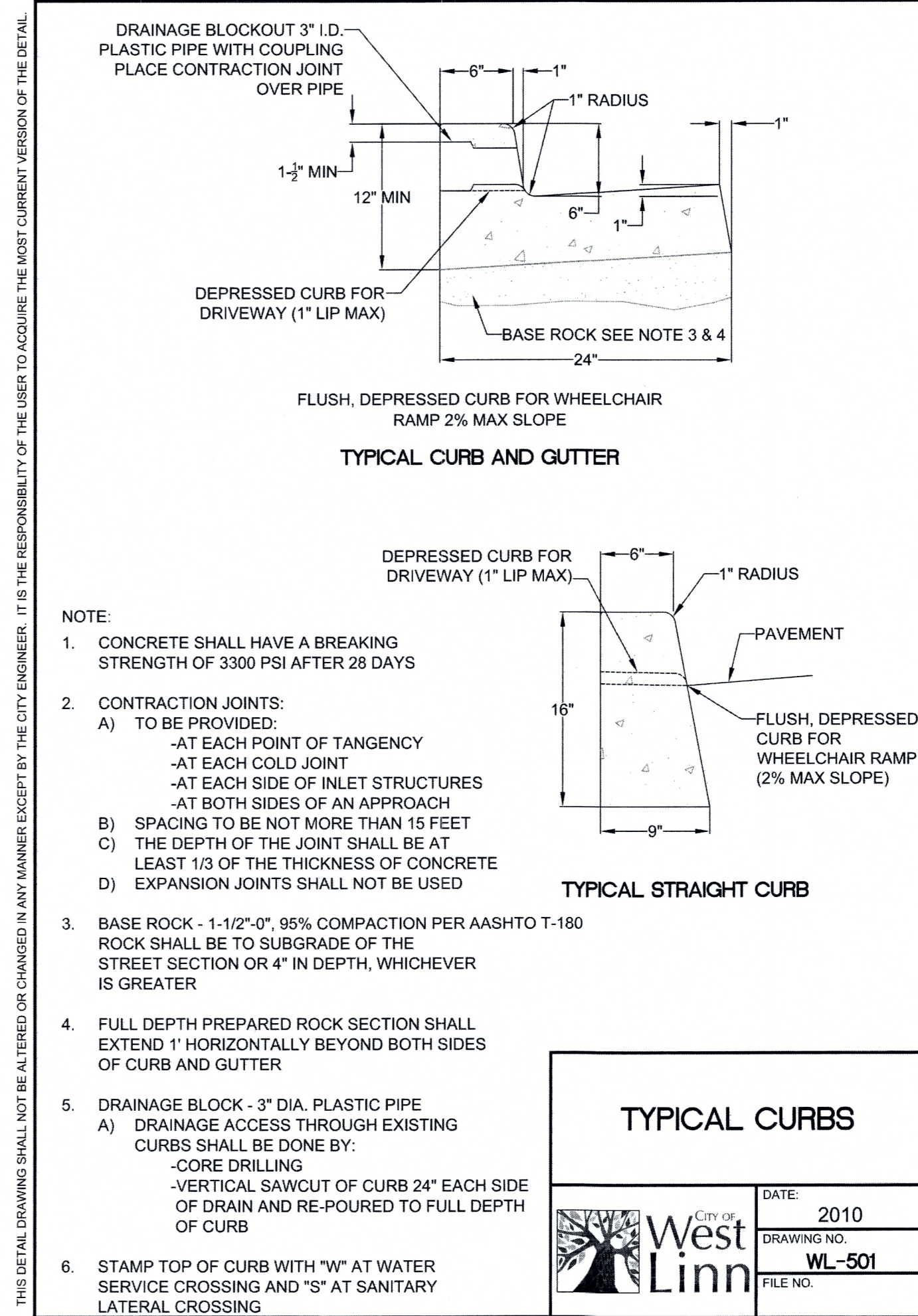


STANDARD FIRE HYDRANT ASSEMBLY

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



STANDARD 1 1/2\"/>

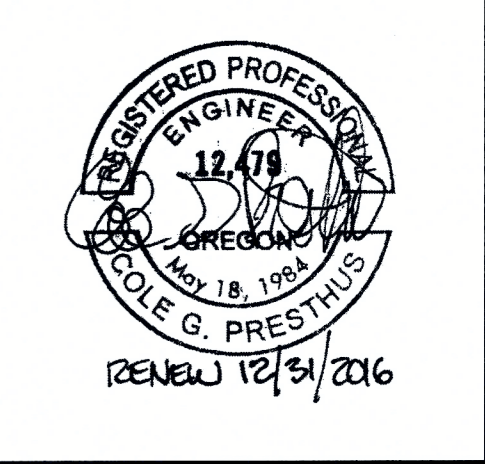


TYPICAL CURBS

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

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SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER:	1335	
DRAWING DESIGN	DATE	BY
	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	DATE	BY
	12 MAR 2014	SGS
PERMIT	DATE	BY
	22 AUG 2014	SGS
PLAN CHECKS	DATE	BY
	30 SEPT 2014	CGP
	21 OCT 2014	CGP
	06 JAN 2015	CGP
	23 JAN 2015	CGP
	25 FEB 2015	CGP
SHEET TITLE		
CIVIL DETAILS		
SHEET #		
CS3.1		

APPROVED FOR CONSTRUCTION BY CITY OF WEST LINN
 This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings. This plan review approval does not prevent the City from requiring further code corrections in the field.
 DATE: 3/23/15 BY: K. W. [Signature]

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.

SECTION A-A

SECTION B-B

COMBINATION CURB INLET

NOTE:

- CAST IN PLACE CONCRETE TO BE 3300 PSI AND WEEP HOLE WITH GALVANIZED MESH. SCREEN ON MIN. 3 SIDES OF INLET.
- MANHOLE RIMS AND COVERS AS MANUFACTURED BY HERN IRON WORKS, COEUR D'ALENE, IDAHO. COVER PATTERN NO. 2312, RIM PATTERN NO. 2311 OR APPROVED EQUAL.

DATE: 2010
DRAWING NO. WL-601
FILE NO.

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COMMERCIAL DRIVEWAY WITH SIDEWALK AWAY FROM CURB

DATE: 2010
DRAWING NO. WL-504A
FILE NO.

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SECTION B-B

SECTION A-A

DITCH INLET

DITCH INLET FRAME

PLAN

NOTE:

- CONCRETE STRENGTH SHALL BE 3300 PSI.
- CATCH BASIN, FRAME, AND GRATES SHALL MEET H2O LOADING.
- INSIDE FRAME DIMENSIONS: 2'-3 3/8", 2'-8 1/2".

INLET TYPE	V	Y	Y1	NO. OF BARS	TYPE
D	2'-4 3/4"	2'-3 3/8"	2'-3"	9	1

DATE: 2010
DRAWING NO. WL-603
FILE NO.

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

RAMP TEXTURE PATTERN

TRUNCATED DOME

TWIN CURB RAMP

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.

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

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GRATE

STORM

MANHOLE FRAME AND COVER

NOTE:

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

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

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TYPICAL CURB TIGHT SIDEWALK

SIDEWALK AWAY FROM CURB

NOTE:

- CONCRETE SHALL BE 3300 PSI AT 28 DAYS.
- PANEL LENGTHS SHALL BE EQUAL TO THE SIDEWALK WIDTH, BUT MAY BE ADJUSTED WITH THE CITY ENGINEER'S APPROVAL.
- 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.
- A CURING COMPOUND SHALL BE USED. WHITE REFLECTIVE SHEETING SHALL BE USED IN CASE OF RAIN.
- 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.
- 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".
- 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.

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

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REGISTERED PROFESSIONAL ENGINEER
NICOLE G. PRESTHUS
RENEW 12/31/2016

SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER: 1335

DRAWING DESIGN	DATE	BY
20 NOV 2013	SGS	
11 FEB 2014	SGS	

DES REV	DATE	BY
12 MAR 2014	SGS	

PERMIT	DATE	BY
22 AUG 2014	SGS	

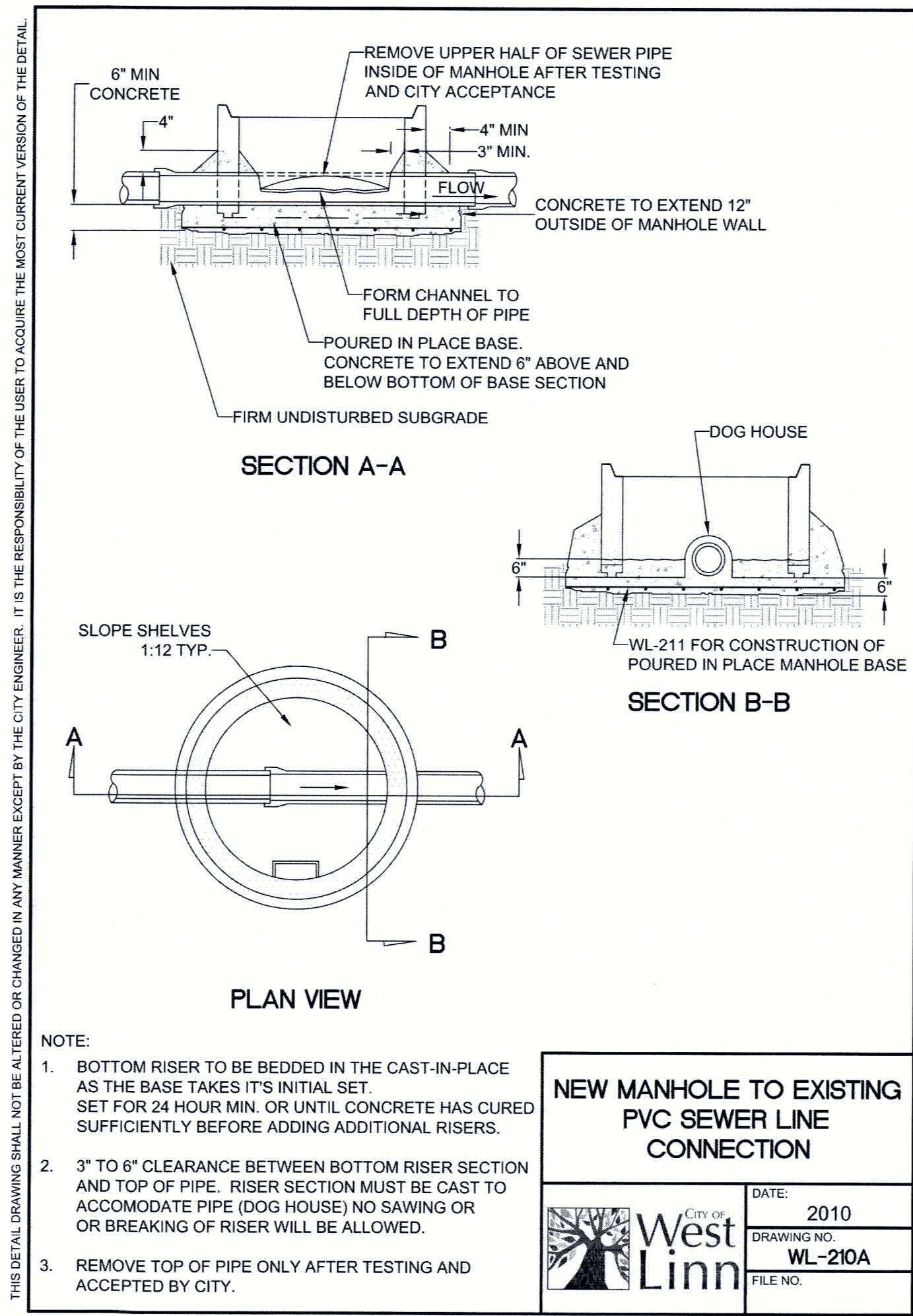
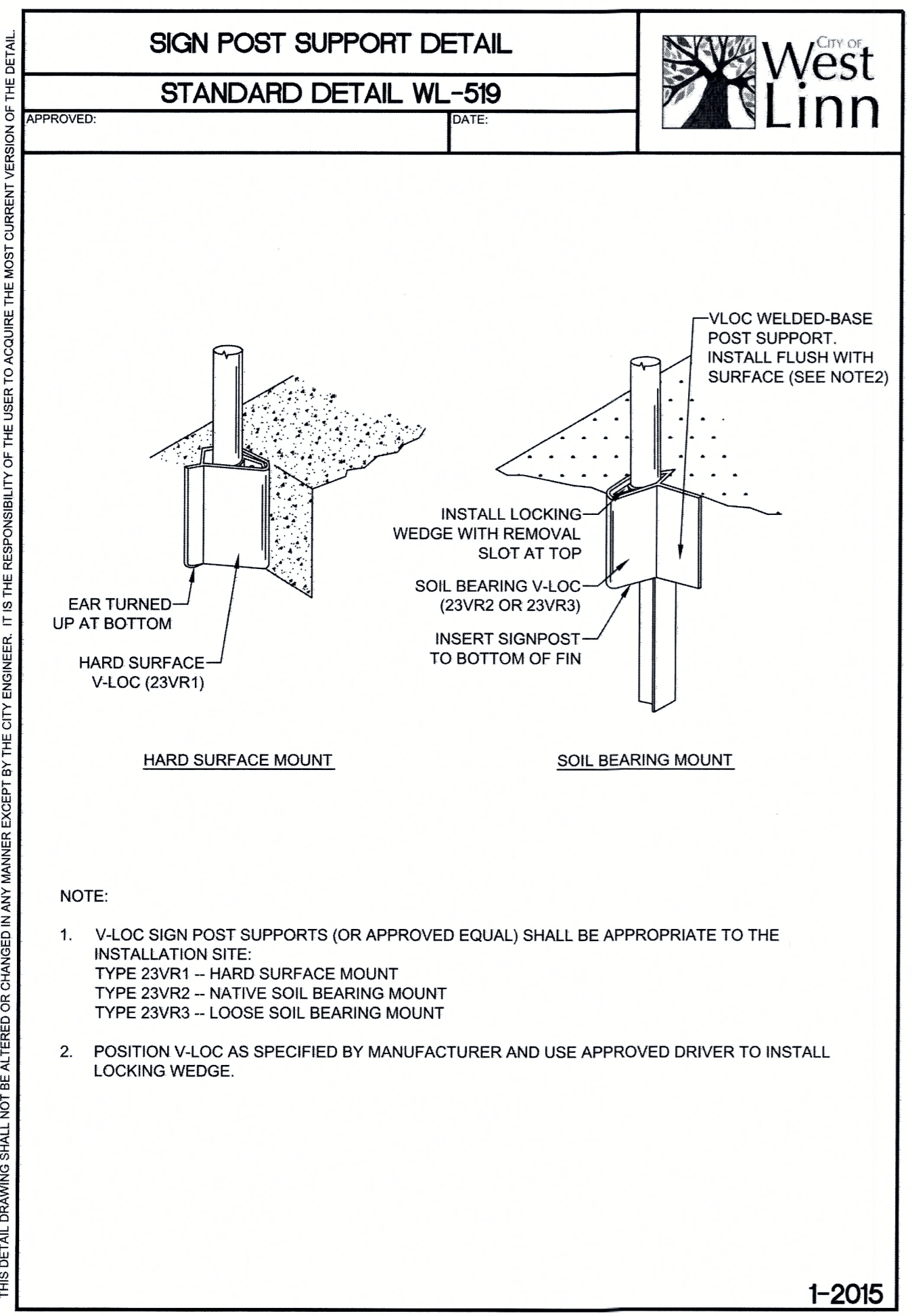
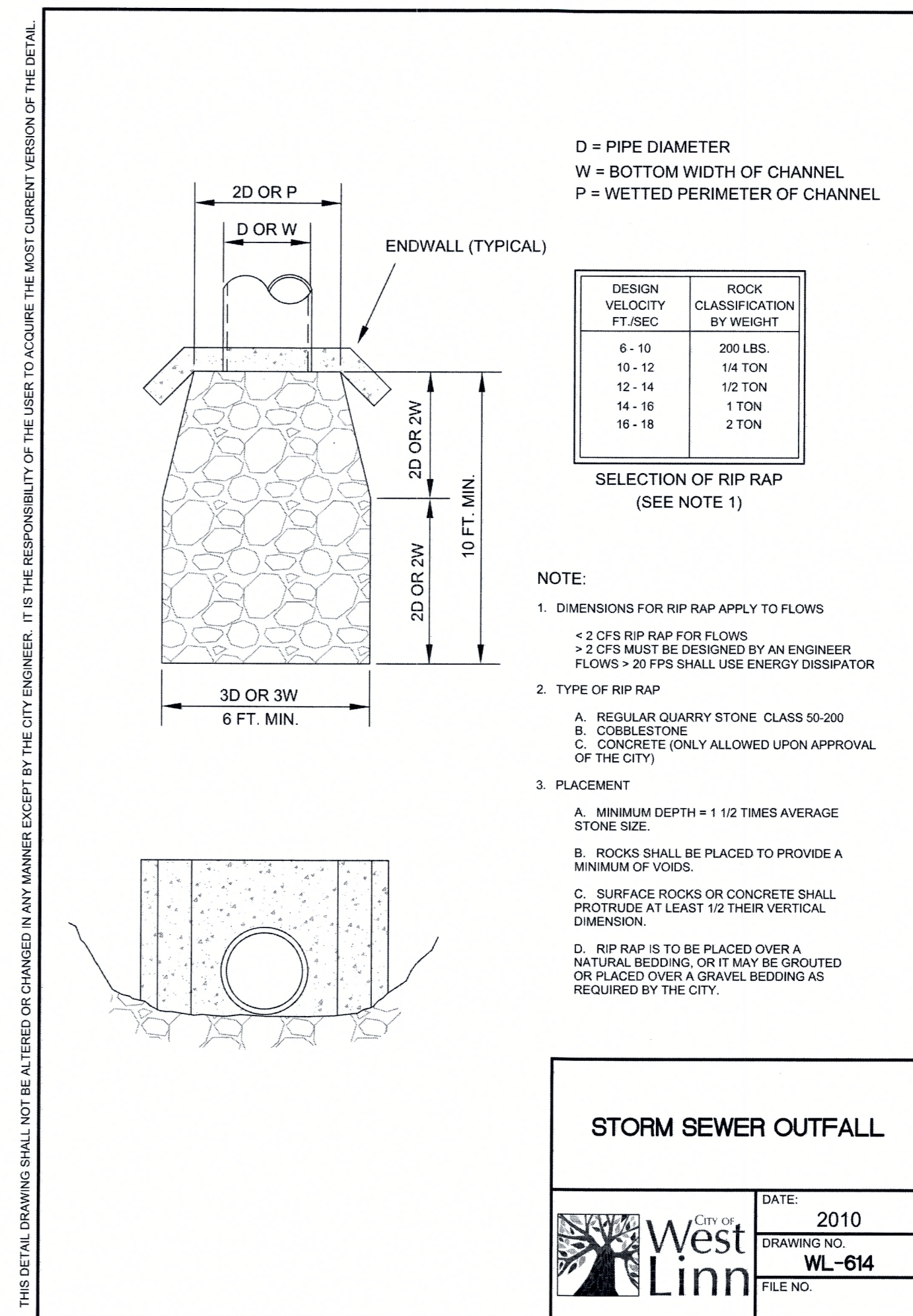
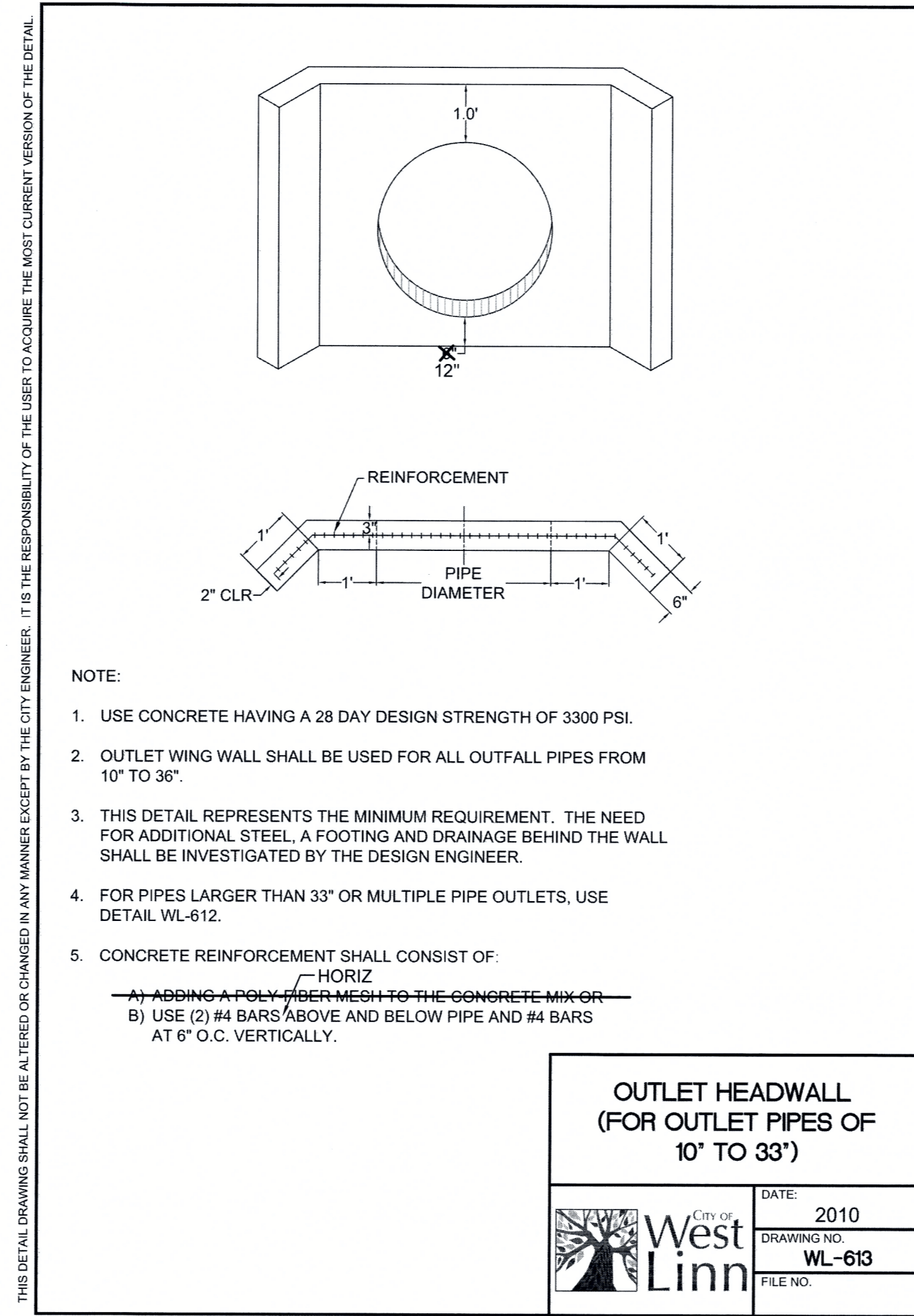
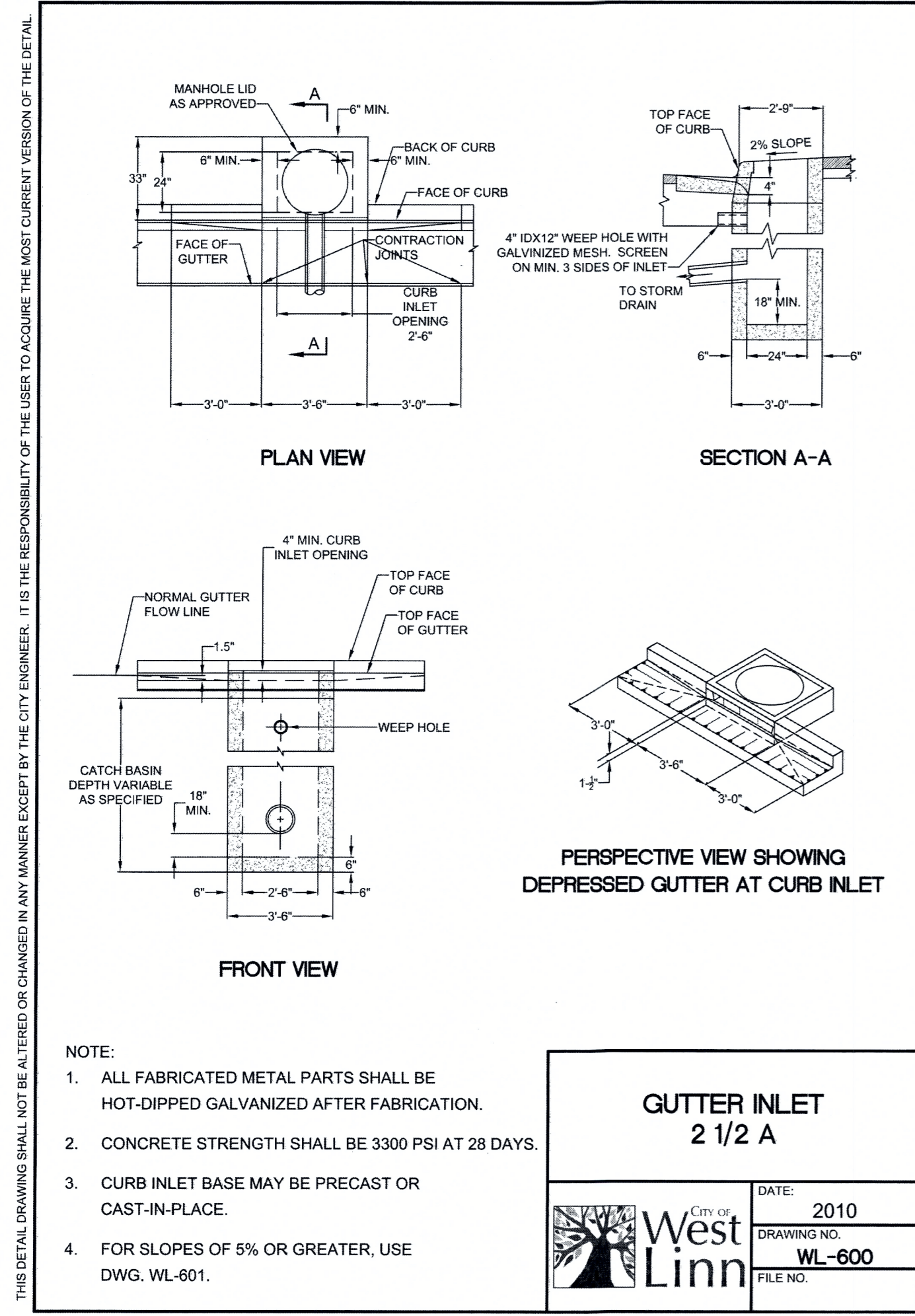
PLAN CHECKS

DATE	BY
30 SEPT 2014	CGP
21 OCT 2014	CGP
06 JAN 2015	CGP
23 JAN 2015	CGP
25 FEB 2015	CGP

SHEET TITLE
CIVIL DETAILS

SHEET #
CS3.2

APPROVED FOR CONSTRUCTION BY
CITY OF WEST LINN
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DATE: 3/23/15 BY: *Kwai Cse*

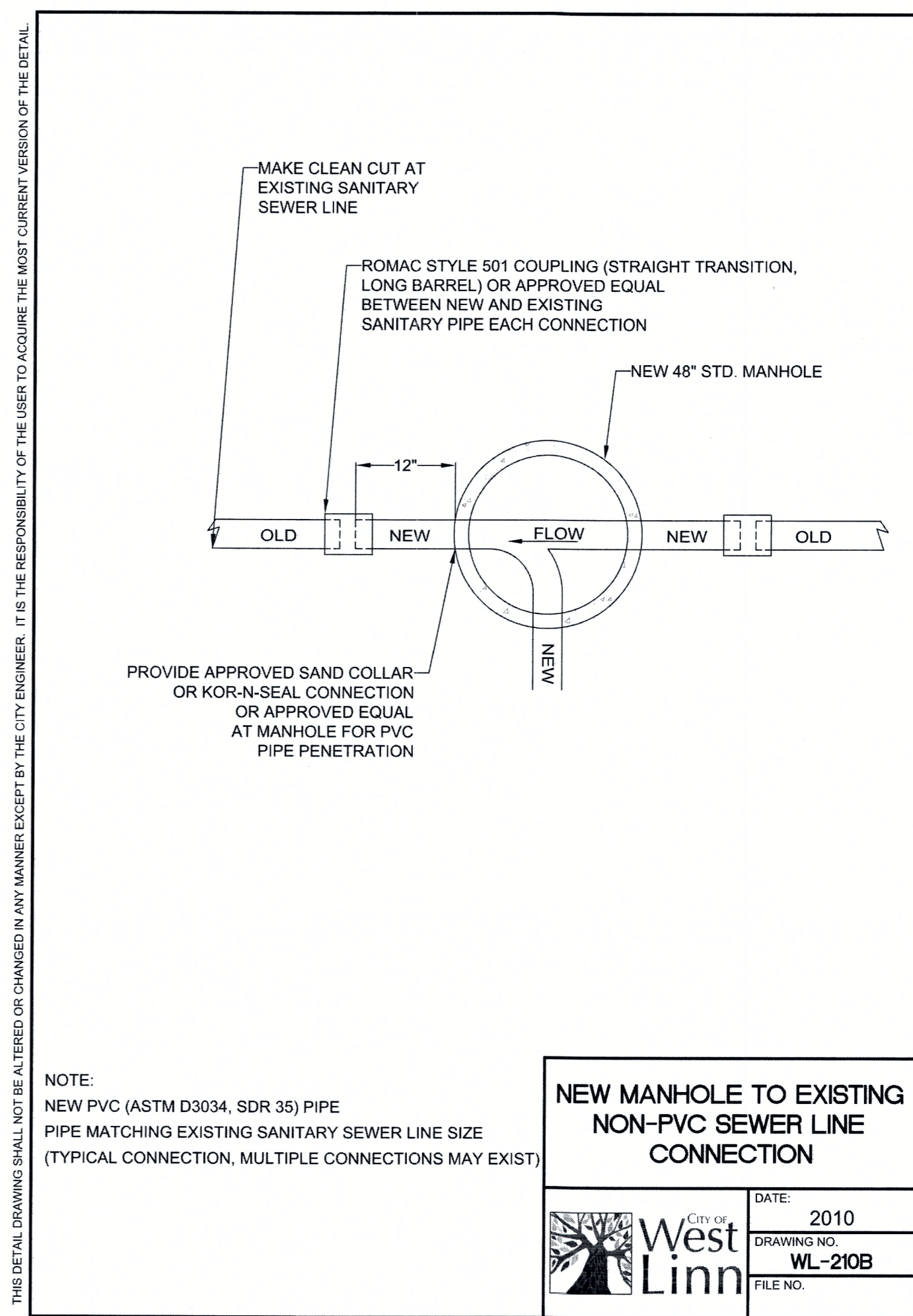


APPROVED FOR CONSTRUCTION BY

CITY OF WEST LINN

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DATE: 3/23/15 BY: *Kwesi O. O.*



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REGISTERED PROFESSIONAL ENGINEER
12-178
OREGON
1967
COLE G. PRESTON
RENEW 12/31/2016

SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER: 1335

DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	12 MAR 2014	SGS
PERMIT	22 AUG 2014	SGS
PLAN CHECKS	30 SEPT 2014	CGP
	21 OCT 2014	CGP
	06 JAN 2015	CGP
	23 JAN 2015	CGP
	25 FEB 2015	CGP

CIVIL DETAILS

SHEET #
CS3.3

CIVIL NOTES

01.0 GENERAL

- THESE NOTES SET MINIMUM STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER THE GENERAL NOTES TO THE EXTENT SHOWN.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS AND IN FIELD. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE FOR ALL NECESSARY TRAFFIC CONTROL PLANS, TEMPORARY SHORING AND OTHER INCIDENTAL WORK NEEDED FOR THE COMPLETION OF THE WORK.
- WHERE REFERENCE IS MADE TO IBC, ASTM, AISC, ACI OR OTHER STANDARDS, THE LATEST ISSUE AT THE BUILDING PERMIT DATE SHALL APPLY.
- ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS, THE "INTERNATIONAL BUILDING CODE" (IBC), THE INTERNATIONAL PLUMBING CODE (IPC) AND THE PROVISIONS OF "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 1996 EDITION, OREGON STATE HIGHWAY DIVISION (OSHD), AS AMENDED BY ALL OTHER STATE AND LOCAL CODES, JURISDICTIONS, PERMITS, AND BUILDING REQUIREMENTS THAT APPLY. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE CONSTRUCTION PERMITS AND SUBMIT TRAFFIC CONTROL PLANS PRIOR TO PROCEEDING WITH WORK.
- EXISTING UTILITIES: SITE AND TOPOGRAPHIC INFORMATION SHOWN HEREON ARE BASED ON RECORD DRAWINGS PROVIDED BY OR MADE AVAILABLE BY THE OWNER. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY THE LOCATION OF EXISTING FEATURES AND UTILITIES PRIOR TO CONSTRUCTION, AND SHALL ARRANGE FOR THE RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED WORK. MINOR ADJUSTMENTS BASED ON FIELD CONDITIONS SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. LOCAL COUNTY AND CITY RECORD DRAWINGS SHOULD BE REVIEWED BY THE CONTRACTOR FOR THIS PURPOSE. THE EXISTENCE AND LOCATION OF EXISTING FEATURES ARE NOT GUARANTEED. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF INFORMATION OBTAINED FROM RECORD DRAWINGS OR INFORMATION PROVIDED BY OTHERS, IMPLIED OR OTHERWISE.
- ATTENTION EXCAVATORS: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH BY OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING (503) 232-1897. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CALL CENTER. YOU MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL (800) 332-2344.
- CONTRACTOR SHALL CAREFULLY MAINTAIN BENCHMARKS, PROPERTY CORNERS, MONUMENTS, AND OTHER REFERENCE POINTS. IF SUCH POINTS ARE DISTURBED OR REMOVED BY ACTIVITIES OF THE CONTRACTOR SHALL PAY FOR THEIR REPLACEMENT BY EMPLOYING A PROFESSIONAL LAND SURVEYOR TO RESET PROPERTY CORNERS AND OTHER SUCH MONUMENTS.
- CONTRACTOR TO COORDINATE AND PROVIDE INSTALLATION AS NECESSARY OF ALL PUBLIC AND PRIVATE UTILITIES FOR THIS PROJECT INCLUDING WATER SERVICE, SANITARY SEWER SERVICE, STORM DRAIN, ELECTRIC POWER, COMMUNICATIONS, CABLE, NATURAL GAS, STREET LIGHTS, ETC.
- CONTRACTOR TO MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON SITE FOR THE SOLE PURPOSE OF CONTRACTOR RECORDING AS-BUILT INSTALLATION OF IMPROVEMENTS. SUBMIT AS-BUILT PLANS TO OWNER.
- ALL CONSTRUCTION ACTIVITY SHALL BE DONE IN A SAFE AND NEAT MANNER AND UNDER OBSERVATION BY CITY FORCES.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL CONSTRUCTION SAFETY, HEALTH AND OTHER RULES AND REGULATIONS FROM OSHA, DEQ, STATE, AND LOCAL REGULATING AGENCIES FOR SAFETY AND INSTALLATION OF THE WORK INCLUDING BUT NOT LIMITED TO SHORING, BRACING, ERECTION / INSTALLATION, FALL PROTECTION, GUARDRAILS, ETC.
- ALL SEWER TRENCH LINES AND EXCAVATIONS SHALL BE PROPERLY SHORED AND BRACED TO PREVENT CAVING. UNUSUALLY DEEP EXCAVATIONS MAY REQUIRE EXTRA SHORING AND BRACING. ALL SHEETING, SHORING, AND BRACING OF TRENCHES SHALL CONFORM TO OREGON OCCUPATIONAL SAFETY AND HEALTH DIVISION (OSHA) REGULATIONS AND THE CITY OR COUNTY STANDARD CONSTRUCTION SPECIFICATIONS.
- ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, RETAINING WALLS, OR PAVEMENT.
- ALL WATER AND SEWERAGE APPURTENANCES SHALL CONFORM TO APWA, OREGON CHAPTER, "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", THE APPROVED CONSTRUCTION DRAWINGS, AND CITY OF WEST LINN REQUIREMENTS. ELEVATION DATUM IS BASED ON THE SHEPHERD A8918 BENCH MARK, ELEVATION = 195.00, BRASS DISK LOCATED NEAR THE CONCRETE AND BRICK ENTRANCE SIGN TO MARYLHURST UNIVERSITY.
- EXISTING TOPOGRAPHY, UTILITIES, AND ELEVATION DATUM ARE BASED ON THE OWNER'S TOPOGRAPHIC SURVEY PROVIDED BY THE OWNER/DEVELOPER. THE EXISTENCE AND LOCATION OF EXISTING FEATURES ARE NOT GUARANTEED. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. THE ENGINEER/WDY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF INFORMATION PROVIDED BY OTHERS, IMPLIED OR OTHERWISE.
- DETAILS SHOWN ON THE DRAWINGS ARE INTENDED TO APPLY AT ALL SIMILAR CONDITIONS AND LOCATIONS.
- DO NOT SCALE INFORMATION FROM DRAWINGS.
- CONTRACTOR TO REMOVE FROM SITE EXCESS SOIL OR OTHER MATERIALS NOT REUSABLE FOR THIS PROJECT, AND COMPLY WITH ALL RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT.
- APPROPRIATE BENCHING OF FILLS IS REQUIRED FOR FILLS OVER 5 FEET IN HEIGHT ON SLOPES IN EXCESS OF 5 HORIZONTAL TO 1 VERTICAL. THE GEOTECHNICAL ENGINEER SHALL INSPECT BENCHES PRIOR TO FILL PLACEMENT.
- CUT AND FILL SLOPES SHALL BE PROTECTED FROM EROSION. SUCH CONTROL MAY CONSIST OF APPROPRIATE REVEGETATION OR OTHER ACCEPTABLE MEANS AND METHODS. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTHWORK OR SITE STRIPPING.
- MATERIAL IN SOFT SPOTS WITHIN 5 FEET OF RIGHT-OF-WAYS, PAVEMENTS OR BUILDINGS SHALL BE REMOVED TO THE DEPTH REQUIRED TO PROVIDE A FIRM SUBGRADE AND SHALL BE REPLACED WITH 1'-12" 0' CRUSHED ROCK COMPACTED TO 95% PER ASTM D1557.
- THE NATIVE SUBGRADE SURFACE SHALL BE APPROVED BEFORE SCARIFYING OR PLACING ANY FILL OR BASE ROCK BY THE SOILS ENGINEER. THE UPPER 8 INCHES OF NATIVE SUBGRADE IS TO BE SCARIFIED, DRIED AND RECOMPACTED TO 90% MAXIMUM DRY DENSITY PER ASTM D698. PLACE GEOTEXTILE FABRIC (MIRAFI 500X, PROPEX GEOTEX 200ST, CONTECH C2000 OR EQUAL) BELOW ALL VEHICULAR PAVEMENT. FOR WET WEATHER CONSTRUCTION (AS DETERMINED BY THE GEOTECHNICAL ENGINEER) A WORKING BLANKET OF PIT RUN OR CRUSHED ROCK IS TO BE LAID OVER GEOTEXTILE FABRIC. ON-SITE COMPACTION TESTS AND DEFLECTION TEST (S) PERFORMED WITH A 50,000 LB. VEHICLE MUST BE PERFORMED AND WITNESSED BY THE GEOTECHNICAL ENGINEER. NO DEFLECTION IS ALLOWED AND ALL BUILDING AND PAVEMENT AREAS MUST BE PROOF-ROLLED. DURING WET WEATHER CONSTRUCTION (AS DETERMINED BY THE SOILS ENGINEER), PROVIDE THE PROOF-ROLL TEST OVER THE BASE ROCK SURFACES PRIOR TO PLACEMENT OF ANY PAVEMENT.
- CRUSHED ROCK BASE MATERIAL AND PIPE ZONE MATERIAL SHALL BE CRUSHED ROCK CONFORMING TO OREGON DEPARTMENT OF TRANSPORTATION (ODOT) SECTION 06540 AND 06541 AND BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557.
- 3/4" - 0' CRUSHED ROCK PIPE ZONE AND BACKFILL MATERIAL IS REQUIRED FOR ALL UTILITY LINES, CONDUITS AND LEVELING COURSES. REFER TO THE TYPICAL UTILITY CONDUIT TRENCH AND PAVEMENT DETAILS.
- ASPHALTIC CONCRETE (A.C.) PAVEMENT SHALL BE A 12.5MM DENSE GRADED HOT MIX WITH A 5.8% MINIMUM ASPHALT CONTENT PER OREGON DOT CLASSIFICATION FOR ALL LIFTS. PAVEMENT SHALL BE PLACED ONLY ON DRY, CLEAN AND PROPERLY PREPARED SURFACES, AND WHEN CONDITIONS MEET THE SPECIFICATIONS AS SET FORTH IN THE MOST RECENT EDITION OF THE OREGON DOT SPECIFICATIONS. ALL NEW PAVEMENT AREAS SHALL CONFORM TO THE TYPICAL PAVEMENT SECTION DETAIL. ALL PAVEMENT TO BE COMPACTED TO 92% OF MAXIMUM DENSITY PER ASTM D2041 FOR SINGLE AND FIRST LIFTS AND 92% COMPACTION SHALL BE REQUIRED FOR SUBSEQUENT LIFTS.
- ALL JOINTS BETWEEN A.C. AND CONCRETE STRUCTURES MUST BE TACKED WITH BITUMASTIC. NO EXCEPTIONS ALLOWED.
- ALL PORTLAND CEMENT CONCRETE PAVEMENT SHALL HAVE A 28 DAY MINIMUM ULTIMATE STRENGTH OF 4000 PSI. PROVIDE A MINIMUM OF (4) TEST CYLINDERS IN ACCORDANCE WITH CURRENT IBC AT EACH POUR.
 - MINIMUM MIX REQUIREMENTS
 - CEMENT CONTENT PER YARD: 5 SACKS
 - MAXIMUM WATER/CEMENT RATIO: 0.45. FLY ASH MEETING ASTM C618 AND WITH LOSS ON IGNITION LESS THAN 3% MAY BE ADDED TO THE CEMENT, BUT NOT MORE THAN 15% BY WEIGHT.
 - SLUMP: 3 INCH TO 4 INCH. DEVIATING FROM DESIGN SLUMP +1/2 INCH TO -1 INCH WHEN CONCRETE IS TO BE PUMPED, ADD PLASTICIZERS MEETING ASTM C494 AND PROVIDE A NEW MIX DESIGN. DO NOT ADD WATER.

- ADMX. PROVIDE WATER REDUCING ADMIX (MASTER BUILDERS) AND REDUCE WATER USED BY 10% MINIMUM FOR ALL SLABS.
 - AIR ENTRAINMENT: PER ACI 301 AND 306 AT ALL EXTERIOR SLABS AND FLAT WORK, 6.0% AIR MINIMUM.
 - ALL ADMIXTURES TO BE COMPATIBLE FROM SAME MANUFACTURER.
 - PLACE AND CURE ALL CONCRETE PER ACI CODES AND STANDARDS.
 - SLEEVES, PIPES OR CONDUITS OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED.
 - PROVIDE CONDUIT JOINTS IN ALL SLABS ON GRADE AS SHOWN ON PLANS. IN AREAS WHERE JOINTS ARE NOT SHOWN, INSTALL IN SQUARE PATTERN AT 15" ON CENTER EACH WAY MAXIMUM. INSTALL JOINTS AT ALL RE-ENTRANT CORNERS.
 - PROVIDE 1/4" PRECAST EXPANSION JOINT MATERIAL BETWEEN SLABS AND WALLS THAT ARE NOT DOWELED TOGETHER, AND AROUND COLUMNS THAT DO NOT HAVE SLAB BLOCKOUTS.
- ON-SITE HANDICAP/ACCESSIBILITY ACCESS ROUTES SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA), STATE AND LOCAL REGULATIONS. NOTIFY ARCHITECT AND ENGINEER PRIOR TO INSTALLING FINISH PAVEMENT IN CONFLICT WITH ADA REQUIREMENTS. IN GENERAL
 - MAXIMUM CROSS SLOPE OF ANY PAVEMENT PERPENDICULAR TO DIRECTION OF TRAVEL IS 2.0%.
 - MAXIMUM SLOPE OF WALKWAYS IN DIRECTION OF TRAVEL IS 5.0%.
 - FOR RAMPS, THE MAXIMUM SLOPE IS 8.33%, AND MAXIMUM RISE BETWEEN LANDINGS IS 30 INCHES. HANDRAILS ARE REQUIRED EACH SIDE OF ALL RAMPS WITH SLOPE GREATER THAN 5%.
 - MAXIMUM SLOPE OF CURB RAMPS AND WINGS OF CURB RAMPS IS 8.33%. THE MAXIMUM LENGTH OF A CURB RAMP IS 6 FEET.
 - PROVIDE FINISH PAVEMENT SURFACE TEXTURES IN ACCORDANCE WITH ADA.
 - STRAIGHT GRADE PAVEMENT AND TOP OF CURB ELEVATIONS BETWEEN GIVEN ELEVATION POINTS. BLEND FINISH GRADES AT GRADE BREAKS.

02.0 CLEARING AND GRUBBING

- ALL CONSTRUCTION AND MATERIALS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THESE PLANS AND THE APPLICABLE REQUIREMENTS OF CITY OF WEST LINN, STATE OF OREGON AND EROSION PREVENTION AND SEDIMENTATION CONTROL MANUAL.
- NOTIFY ARCHITECT 2 BUSINESS DAYS BEFORE COMMENCING WORK.
- CONTRACTOR SHALL REMOVE ALL TREES, SHRUBS, RUBBISH, AND MAN-MADE STRUCTURES INCLUDING BUT NOT LIMITED TO CONCRETE SLABS, WALLS, VAULTS, FOOTINGS, ASPHALTIC PAVED SURFACES, GRAVELED AREAS, SHED OR OTHER FREE-STANDING BUILDINGS (CONSTRUCTED OF WOOD, CONCRETE, METAL, ETC.) FOUNDATIONS, FENCES, RAILINGS, MACHINERY, ETC. WITHIN THE CLEARING LIMITS. THE ITEMS LISTED ABOVE SHALL BE DISPOSED OF OFF-SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN NECESSARY PERMITS AND APPROVALS FOR STRUCTURES TO BE REMOVED. CONTRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION AND WORK PERMITS.
- ALL BURIED STRUCTURES (I.E. TANKS, LEACH LINES, DRAIN TILE, AND PIPES) NOT DESIGNATED TO REMAIN ON THE SITE, SHALL BE REMOVED AND THE RESULTING EXCAVATIONS SHALL BE PROPERLY INSPECTED, BACKFILLED AND COMPACTED PRIOR TO ANY GRADING OR FILLING OPERATIONS. THIS IS TO INCLUDE STUMPS AND ROOTBALLS OF TREES TO BE REMOVED FROM THE SITE. NOTIFY CITY FOR INSPECTIONS AS REQUIRED.
- THE AREA OF THE SITE DESIGNATED ON THE PLAN TO BE REGRADED OR PAVED SHALL BE STRIPPED TO REMOVE ALL ORGANIC MATERIAL DOWN TO FIRM SUBGRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING SUBGRADE SOILS FROM OVERWORKING AND PROVIDE REPAIR TO DAMAGED SUBGRADE AT NO ADDITIONAL COST TO THE OWNER.
- ALL UNSUITABLE MATERIAL (SOIL AND VEGETATION) REMOVED DURING THE CLEARING AND GRUBBING OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR AND LEGALLY DISPOSED OF IN A SUITABLE LOCATION.
- EXCAVATORS MUST COMPLY WITH ALL PROVISIONS OF ORS 757.541 TO 757.571 INCLUDING NOTIFICATION OF ALL OWNERS OF UNDERGROUND FACILITIES AT USA LOCATES (681-7044), AT LEAST 48 BUSINESS HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS BEFORE COMMENCING AN EXCAVATION.
- ALL EMBANKMENTS RESTORED SHALL BE STRUCTURAL FILL MEETING THE REQUIREMENTS AND SPECIFICATIONS OF IBC CHAPTER 18.
- ALL EXCESS MATERIAL NOT UTILIZED ON-SITE SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
- TREES NOT DESIGNATED TO BE REMOVED BY THE ARCHITECT SHALL BE PROTECTED AT ALL TIMES.
- SAWCUT STRAIGHT LINES TO MATCH EXISTING PAVEMENT WITH THE NEW PAVEMENT. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE TRAFFIC CONTROL ALONG THE EXISTING ROADS AS REQUIRED BY THE CITY OF WEST LINN.

03.0 PRIVATE UTILITIES

- CONTRACTOR TO PROVIDE UTILITY SUBMITTALS FOR REVIEW PRIOR TO INSTALLATION OF ALL PROPOSED UTILITY PIPES, CONDUITS, MANHOLES, BENDS/FITTINGS AND ALL OTHER SYSTEM APPURTENANCES.
- SANITARY SEWER, STORM DRAIN AND WATER LINES IN PRIVATE PROPERTY SHALL BE PRIVATELY OWNED, MAINTAINED AND OPERATED. PROVIDE TRACER WIRE AND WARNING TAPE FOR ALL PLASTIC UTILITY LINES.
- ALL PRIVATE CATCH BASINS, AREA DRAINS, STORM DRAIN PIPE, SANITARY SEWER PIPE AND WATER PIPE AND APPURTENANCES SHALL MEET THE REQUIREMENTS OF THE LATEST INTERNATIONAL PLUMBING CODE AS APPLICABLE.
- ALL CONNECTIONS TO EXISTING PUBLIC STORM SEWER, SANITARY SEWER AND WATER MAINS REQUIRE ISSUANCE OF A PUBLIC WORKS PERMIT AND INSPECTION BY THE CITY OF WEST LINN AND THE WATER DISTRICT AS APPLICABLE.
- PRIVATE SANITARY SEWER LATERALS SHALL COMPLY WITH THE REFERENCED PUBLIC STANDARDS AND DRAWINGS FOR PUBLIC SANITARY SEWER. LAY THE "T" AT A 2% SLOPE.
- CAST IRON SANITARY OR STORM DRAIN PIPE AND JOINTS SHALL BE HUBLESS, SERVICE WEIGHT, AND MEET THE REQUIREMENTS OF CISPI 301. JOINTS SHALL BE MECHANICAL CLAMP RING TYPE, STAINLESS STEEL EXPANDING AND CONTRACTING SLEEVES WITH FULL CIRCLE NEOPRENE RIBBED GASKETS FOR POSITIVE SEAL. COUPLINGS AND SHIELDS TO BEAR THE MANUFACTURER'S REGISTERED SIGNIA. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- PVC SANITARY SEWER OR STORM DRAIN PIPE SHALL BE ASTM D3034, SDR-35 COMPATIBLE ASTM D3034 FITTINGS MUST BE USED WITH ASTM D3034 PIPE. ALL ASTM D3034 PIPE USED MUST BE OF WATER-TIGHT JOINTS AND TESTED FOR ROUNDNESS AFTER BACKFILL. PROVIDE PRESSURE TEST. PROVIDE TV VIDEO TAPE IF SO REQUIRED BY THE JURISDICTION HAVING AUTHORITY.
- HIGH DENSITY POLYETHYLENE (HDPE) STORM DRAIN PIPE AND ASSOCIATED HDPE FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM D 3550 OR ASTM 1248, TYPE III, CLASS C, CATEGORY 4, GRADE 933. 4 INCH TO 10 INCH PIPE SHALL MEET AASHTO M252 TYPE S; 12 INCH TO 36 INCH PIPE SHALL MEET AASHTO M294 TYPE S; 42 INCH TO 48 INCH SHALL MEET AASHTO M96-96, TYPE S, AND 54 INCH TO 60 INCH SHALL MEET AASHTO M294, TYPE S. JOINTS SHALL BE BELL AND SPIGOT COUPLINGS, OR EQUIVALENT, AND CONFORM TO ASTM D3212. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D3231 WITH EXCEPTION THAT MINIMUM COVER IN TRAFFIC AREAS SHALL BE 18 INCHES.
- ABS SCHEDULE 40 SOLID WALL PLASTIC PIPE AND FITTINGS MEETING REQUIREMENTS OF ASTM D 2661 JOINED WITH PIPE CEMENT MEETING REQUIREMENTS OF ASTM 2235. DUCTILE IRON PIPE: AWWA C-151, 12 CLASS 52, WITH GASKETED BELL & SPIGOT JOINTS, SEAL COATED PER AWWA C-104.
- EXTERIOR CONCRETE FOUNDATION DRAIN PIPE WITH CONTINUOUS FILTER FABRIC SOCK SHALL BE PVC SCHED 40 PERFORATED PIPE WITH SOLVENT WELD JOINTS. INSTALL DRAIN PIPE AT 0.5% SLOPE UP FROM BOTTOM OF FOOTING IN EACH DIRECTION AROUND THE BLDG FROM THE BACKWATER VALVE(S) CONNECTION LOCATION(S) TO THE SITE STORM DRAINAGE SYSTEM. PROVIDE FILTER FABRIC WRAP AROUND A 24 INCH DIAMETER MINIMUM 24 INCH HIGH DRAIN PIPE EACH SECTION AT PERIMETER OF BUILDING FOUNDATION. LAP FILTER FABRIC 12 INCHES OVER TOP OF DRAIN ROCK SECTION. TOP OF DRAIN ROCK TO BE 9 INCHES BELOW FINISH GRADE BESIDE BUILDING. SEE DWGS FOR TYPICAL FNDN DRAIN INSTALLATION DETAIL.
- ABS OR PVC FOUNDATION DRAIN BACKWATER VALVES SHALL BE HORIZONTAL TYPE SIMILAR TO OSMI 12.14.1, WITH REMOVABLE COVER AND SWING CHECK VALVE WITH GASKET. SEE DWGS FOR INSTALLATION DETAIL.
- AREA DRAINS IN LANDSCAPE AREAS SHALL BE 15"X15" TURF & LANDSCAPE AREA DRAINS MANUFACTURED BY THE 'LYNCH CO.' WITH 4 INCH DIAMETER TRAPPED NO-HUB CONNECTION OUTLETS, EXTENSIONS AND GRATES WITH BARS AT 1-1/4 INCH ON CENTER FOR COMPLETE ASSEMBLY.
- EXTERIOR CONCRETE PAVEMENT AREAS SHALL BE "SMITH" FLOOR DRAINS WITH 12 INCH DIAMETER TOPS, DEEP BODY SEDIMENT BUCKETS, 4 INCH DIAMETER TRAPPED NO-HUB CONNECTION OUTLETS, EXTENSIONS AND GRATES FOR COMPLETE ASSEMBLY.
- EXTERIOR CLEANOUTS IN WALKWAYS SHALL BE J.R. SMITH 4023-U WITH HEAVY DUTY NICKEL BRONZE TOP, TAPER HEAD, ABS PLUG AND TOP SECURED WITH VANDAL PROOF SCREWS, FLUSH AT FINISH GRADE.

12.0 CONSTRUCTION OBSERVATION, INSPECTION AND TESTING

12.1 GENERAL

- INDEPENDENT TESTING LAB TO BE RETAINED BY OWNER TO PROVIDE INSPECTIONS AND SPECIAL INSPECTIONS AS DESCRIBED HEREIN.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE AND PROVIDE ON SITE ACCESS TO ALL REQUIRED INSPECTIONS AND NOTIFY GEOTECHNICAL ENGINEER AND TESTING LABS IN THE EVENT OF SUCH INSPECTIONS AND ALL NECESSARY REINSPECTIONS.
- CONTRACTOR: DO NOT COVER WORK REQUIRED TO BE INSPECTED OR REINSPECTED PRIOR TO INSPECTION BEING MADE. IF WORK IS COVERED, UNCOVER AS NECESSARY.
- INSPECTORS SHALL PROMPTLY NOTIFY THE CONTRACTOR PRIOR TO LEAVING THE SITE AND OWNER'S REPRESENTATIVE OF SUBSTANDARD WORK AND PROVIDE A COPY OF ALL REPORTS TO THE OWNER, ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL.
- CONTRACTOR TO NOTIFY CIVIL ENGINEER WHEN UTILITY WORK BEGINS AND FOR OBSERVATION OF BASE ROCK PRIOR TO PLACING FINISH CURBS OR PAVEMENTS.

12.2 SPECIAL INSPECTIONS

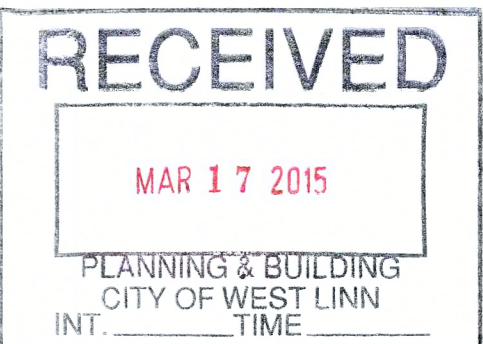
- REQUIRED SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT SPECIAL INSPECTOR PER SECTION 1701 OF THE INTERNATIONAL BUILDING CODE (IBC) FOR THE FOLLOWING:
 - FOUNDATION EXCAVATION TO BE OBSERVED BY OWNER'S GEOTECHNICAL ENGINEER FOR FIELD VERIFYING FOUNDATION DRAINAGE AND DEWATERING RECOMMENDATIONS.
 - NATIVE SUBGRADE SURFACE TO BE PROOF-ROLLED AND OBSERVED BY THE OWNER'S GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE PRIOR TO PLACEMENT OF ALL FILL OR BASE ROCK MATERIALS UNDER OR WITHIN 5 FEET OF ALL PAVEMENT AND BUILDING AREAS. DURING WET WEATHER CONSTRUCTION WHEN PROOF-ROLL OF NATIVE SUBGRADE MAY NOT BE APPROPRIATE (AS DETERMINED BY GEOTECHNICAL ENGINEER), PROVIDE PROOF-ROLL OF ALL BASE ROCK SURFACES PRIOR TO PLACEMENT OF ANY FINISH PAVEMENT.
 - DURING THE PLACEMENT OF ALL FILL, INCLUDING TRENCH BACKFILL AND BASE BELOW PAVEMENTS AND BUILDINGS, GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE TO VERIFY THAT MINIMUM COMPACTION REQUIREMENTS ARE MET. PROVIDE TEST FOR EACH 40 CUBIC YARDS PLACED.
 - GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE TO OBSERVE ALL PROOF ROLLS.

CONTACT: ALDER GEOTECHNICAL SERVICES, JOHN CUNNINGHAM, P.E.
3910 NE 10TH AVE.
PORTLAND, OR 97212
(503) 282-7462

- PAVEMENTS:
 - VERIFY COMPACTION OF ASPHALT PAVEMENTS.
 - CONTRACTOR TO PROVIDE HYDROSTATIC OR AIR TESTING OF ALL PIPES, JOINTS, MANHOLES, ETC. AS REQUIRED BY LOCAL AND STATE JURISDICTIONS.
 - OBSERVE DEFLECTION TEST PERFORMED BY CONTRACTOR FOR ALL FLEXIBLE STORM AND SANITARY PIPE. DEFLECTION TEST TO BE IN ACCORDANCE WITH OREGON CHAPTER APWA 303.9.

CIVIL ABBREVIATIONS

A.B.	ANCHOR BOLTS	HDPE	HIGH-DENSITY-POLYETHYLENE
ABR	ABRICATION	HT	HORIZONTAL
A.C.	ASPHALT CONCRETE	H.P.	HIGH POINT
ACDDG	ACCORDING	HT	HEIGHT
A.D.	AREA DRAIN	I.E.	INVERT ELEVATION
ADA	AMERICANS WITH DISABILITIES ACT	INFO	INFORMATION
A. F.	ABOVE FINISH FLOOR	INT	INTERIOR
AHD	AHEAD	I.R.	IRON ROD
ALT	ALTERNATE	JT	JOINT
APX	APPROXIMATELY	L.F.	LINEAR FEET
ARCH	ARCHITECTURAL	LYS OR #	LENGTH
A.R.V.	AIR RELIEF VALVE	L.F.	FOUNDS
B.C.R.	BEGIN CURB RETURN	LIN	LINEAR
BF	BACKFLOW	LT	LEFT
BLD	BUILDING	M.B.	MACHINE BOLT
B.O.	BLOW-OFF	MANUF	MANUFACTURER
BOT	BOTTOM	MBR	MEMBER
B.R.	BEGIN RETURN	MAT L	MATERIAL
B.S.	BACK OF SIDEWALK	MAX	MAXIMUM
BTM	BETWEEN	MECH	MECHANICAL
BW	BACKWATER	MFG	MECHANICAL JOINT
C.B.	CATCH BASIN	MH	MANHOLE
C.I.	CAST IRON OR CURB INLET	MIN	MINIMUM
C.I.	COLD JOINT	N	NEW
C.L.	CENTER LINE	(N)	(N)
CLR	CLEAR	N.S.	NON SHRINK
CLR	CLEAR	N.S.	NON SCALE
CNTR	CENTER	O.C.	ON CENTER
CO	CLEANOUT	O.H. OR O.P.P.	OPPOSITE HAND
COL	COLUMN	O.W.S.	OIL WATER SEPARATOR
CONC	CONCRETE	PL	PLATE
CONN	CONNECTION	P.L.	PROPERTY LINE
CONT	CONTINUOUS	P.C.	POINT OF CURVATURE
COP	COPPER	P.C.C.	POINT OF COUNTER CURVATURE
C.O.T.G.	CLEAR OUT TO GRADE	PERF	PERFORATED
CPLG	COUPLING	P.LWD	PLYWOOD
CULV	CULVERT	PROP	PROPOSED
DBL	DOUBLE	PSF	POUNDS-PER-SQUARE-FOOT
DEL	DOUBLE CHECK	P.T.	POINT OF TANGENCY
DDA	DOUBLE CHECK DETECTOR ASSEMBLY	PLY	POLYMER
DET	DETAIL	P.U.E.	PUBLIC UTILITY EASEMENT
D.F.	DOUGLAS FIR	P.W.	PUBLIC WORKS
D.I.	DUCTILE IRON OR DITCH INLET	R OR RAD	RADIUS
DI	DIMENSION	R.DRAIN	RE-DRAIN
DIR	DIRECTION	REIN	REINFORCEMENT/REINFORCING
DO	DITTO	REQ	REQUIRED
DOM	DOMESTIC	REHAB	REHABILITATION
DR	DRIVE	RDR	REDUCER
DRW OR DWG	DRAWING	R.P.	RADIUS POINT
DS	DOWN SPOUT	RIGHT	RIGHT
EA	DRY WELL	R/W	RIGHT-OF-WAY
D/W	DRIVEWAY	SCHED	SCHEDULE
EA	EACH	SED	SEDIMENTATION
E.C.R.	EACH CURB RETURN	SERV	SERVICE
E.C.	EXISTING GRADE	STD	STANDARD
E.E.	EXISTING JOINT	STA	STATION
E.L. OR ELEV	EXISTING ELEVATION	ST.D.	STORM DRAIN
ELEC	ELECTRIC	STIFF	STIFFENER
EMBED	EMBEDMENT	STL	STEEL
E.O.P.	EDGE OF PAVEMENT	STRUCT	STRUCTURAL
E.O.R.	ENGINEER OF RECORD	SWLJK	SIDEWALK
E.R.	END RETURN	T.C.	TOP OF CURB
E.W.	EACH WAY	TELEP	TELEPHONE
EX OR EXIST	EXISTING	T.O.F.	TOP OF FOOTING
EXT	EXTERIOR	T.O.S.	TOP OF SLAB
F.C.A.	FLANGED COUPLING ADAPTER	T.O.W.	TOP OF WALL
FD	FOUND	TYP	TYPICAL
F.D.C.	FIRE DEPARTMENT CONNECTION	U.R.M.	UNREINFORCED MASONRY
FNDN	FOUNDATION	U.T.	UNDERGROUND TELEPHONE
F.F.	FINISH FLOOR	VALV BOX	VALVE BOX
F.G.	FINISH GRADE	VERT	VERTICAL
F.H.	FIRE HYDRANT	VT	VAULT
FIN	FINISH	W	WATER
F.L.W.	FLOW LINE	W.J.	WET JOINT
FLG	FLANGE	W.M.	WATER METER
FLR	FLOOR	W.Q.	WATER QUALITY
F.P.	FINISH PAVEMENT	W.W.F.	WELDED WIRE FABRIC
F.O.C.	FACE OF CURB	W/	WITH
GA	GAUGE OR GAUGE	W/O	WITHOUT
G.B.	GAGE OR GAUGE		
GEN	GENERAL		
G.S.	GROUND		
G.S.P.	GROUND SHOT		
G.V.	GALVANIZED STEEL PIPE		
	GATE VALVE		

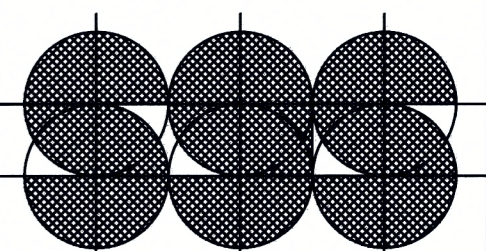


CIVIL OFFSITE DRAWING LIST

SHEET NO.	TITLE
CS1.0	COVERSHEET
CS1.1	PUBLIC IMPROVEMENTS STANDARD NOTES
CS2.0A	OSWEGO HIGHWAY (OR43) (WILAMETTE DRIVE) IMPROVEMENTS
CS2.0B	OSWEGO HIGHWAY (OR43) (WILAMETTE DRIVE) STRIPING PLAN
CS2.0C	ODOT STANDARD DRAWINGS
CS2.0D	ODOT STANDARD DRAWINGS
CS2.0E	ODOT STANDARD DRAWINGS
CS2.0F	ODOT STANDARD DRAWINGS
CS2.0G	ODOT STANDARD DRAWINGS
CS2.1	SHADY HOLLOW WAY PLAN AND PROFILE
CS2.2	SHADY HOLLOW WAY PLAN AND PROFILE
CS3.0	WDY SECTION DETAILS
CS3.1	PUBLIC IMPROVEMENT DETAILS
CS3.2	PUBLIC IMPROVEMENT DETAILS
CS3.3	PUBLIC IMPROVEMENT DETAILS

CIVIL ONSITE DRAWING LIST

SHEET NO.	TITLE
SD4.0	CIVIL NOTES AND ABBREVIATIONS
SD4.1A	ONSITE EROSION CONTROL PLAN
SD4.1B	ONSITE EROSION CONTROL PLAN
SD4.1C	ONSITE EROSION CONTROL PLAN
SD4.2	ONSITE EROSION CONTROL DETAILS
SD4.3	ONSITE UTILITY PLAN
SD4.4	ONSITE CIVIL DETAILS
SD4.5	ONSITE CIVIL DETAILS



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ph:503.203.8111 fx:503.203.8122
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SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER: 1335

DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	12 MAR 2014	SGS
PERMIT	22 AUG 2014	SGS
PLAN CHECK		
	08 OCT 2014	CGP
	21 OCT 2014	CGP
	06 JAN 2015	CGP
	23 JAN 2015	CGP
	28 JAN 2015	CGP

SHEET TITLE
CIVIL NOTES AND ABBREVIATIONS

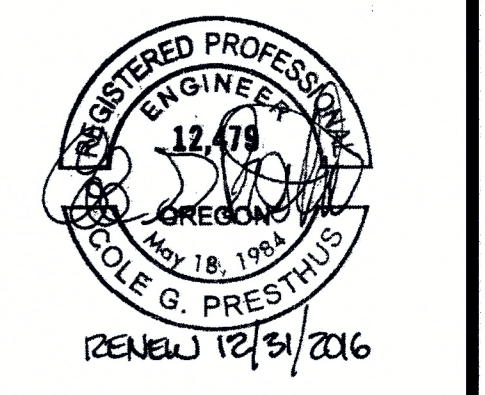
SHEET #

SD4.0

ESC PLAN FOR SITES 1 TO 5 ACRES

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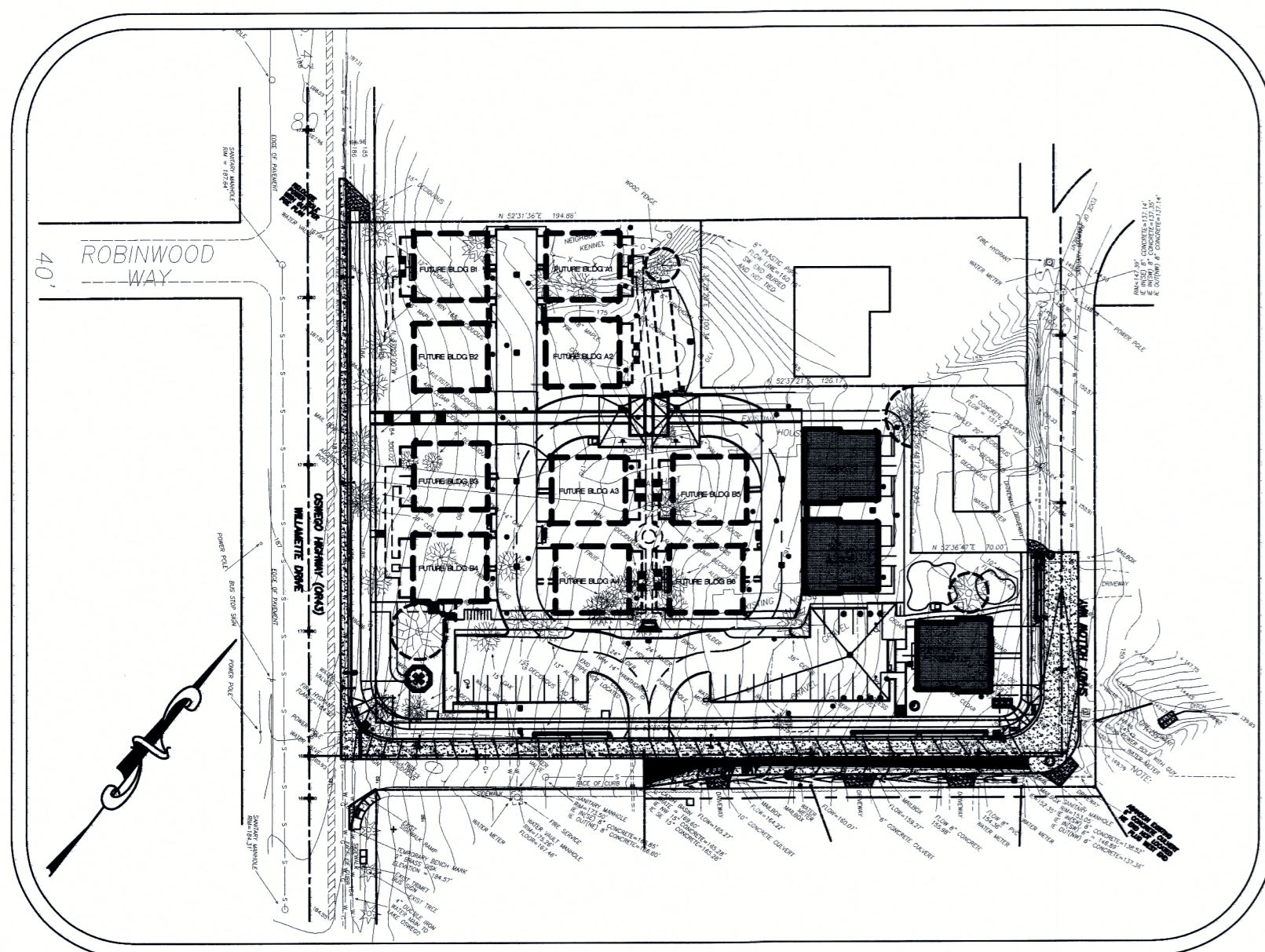
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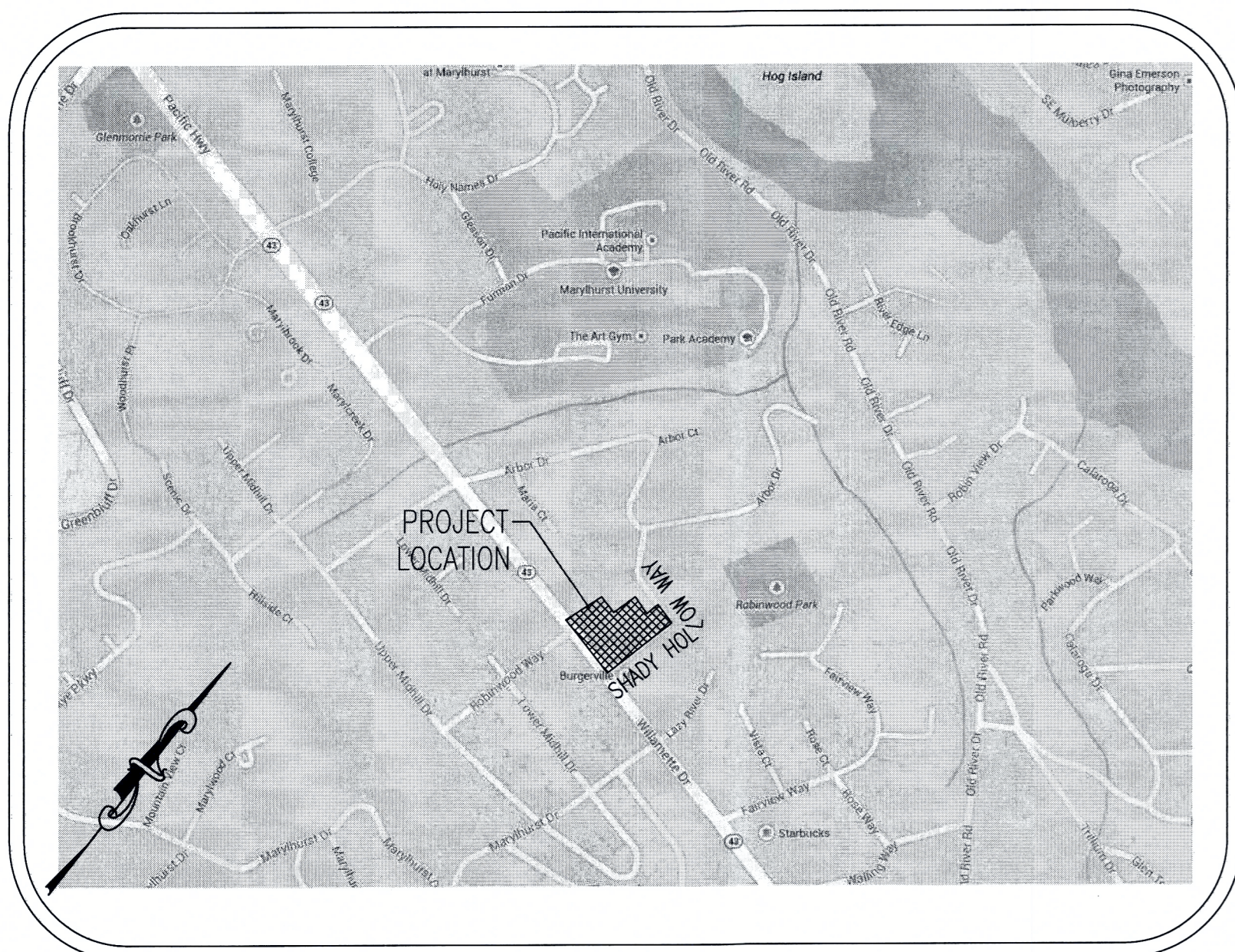
SHADY HOLLOW VILLAGE
 SHADY HOLLOW AND WILLAMETTE DRIVE
 WEST LINN, OREGON

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

- All permit registrants must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit.
- The ESCP measures shown on this plan are minimum requirements for anticipated site conditions. During the construction period, upgrade these measures as needed to comply with all applicable local, state, and federal erosion and sediment control regulations.
- Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent.
- Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion.
- Identify, mark, and protect (by fencing off or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas.
- Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used.
- Erosion and sediment control measures including perimeter sediment control must be in place before vegetation is disturbed and must remain in place and be maintained, repaired, and promptly implemented following procedures established for the duration of construction, including protection for active storm drain inlets and catch basins and appropriate non-stormwater pollution controls.
- Establish concrete truck and other concrete equipment washout areas before beginning concrete work.
- Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses and for all roadways including gravel roadways.
- Establish material and waste storage areas, and other non-stormwater controls.
- Prevent tracking of sediment onto public or private roads using BMPs such as: graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land-disturbing activities.
- When trucking saturated soils from the site, either use water-tight trucks or drain loads on site.
- Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, leftover paints, solvents, and glues from construction operations.
- Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies.
- Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil.
- The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within any waterway riparian zone.
- If a stormwater treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain plan approval before operating the treatment system. Operate and maintain the treatment system according to manufacturer's specifications.
- At the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters.
- Construction activities must avoid or minimize excavation and creation of bare ground during wet weather October 01 - May 31.
- Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal.
- Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height, and before BMP removal.
- Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project.
- Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean up of sediment shall be performed according to the Oregon Division of State Lands required timeframe.
- The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments.
- Provide permanent erosion control measures on all exposed areas. Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. However, do remove all temporary erosion control measures as exposed areas become stabilized, unless doing so conflicts with local requirements. Properly dispose of construction materials and waste, including sediment retained by temporary BMPs.
- If vegetative seed mixes are specified, seeding must take place no later than September 1; the type and percentages of seed in the mix must be identified on the plans.
- All pumping of sediment laden water shall be discharged over an undisturbed, preferably vegetated area, and through a sediment control BMP i.e. (filter bag).
- All exposed soils must be covered during the wet weather period, October 01 - May 31.



SITE MAP NOT TO SCALE



VICINITY MAP NOT TO SCALE

DEVELOPER

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 WEST LINN, OR 97068
 PHONE: 503-532-2027
 Email: emami007@comcast.net

ARCHITECT

STEWART GORDON STRAUSS
 6775 SW 111TH AVENUE, SUITE 20
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 PHONE: 503-672-7517

CIVIL ENGINEERS

WDY, INC.
 CONTACT: COLE G. PRESTHUS
 6443 SW BEAVERTON/HILLSDALE HWY, SUITE #210
 PORTLAND, OREGON 97221
 PHONE: 503-203-8111
 FAX: 503-203-8122

SURVEYOR

TOWNSHIP SURVEYS, LLC
 1415 WASHINGTON STREET
 OREGON CITY, OR 97045
 PHONE: 503-656-4915

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS

- THE SITE IS MADE OF THREE TAX LOTS WITH TWO EXISTING HOUSES AND MOSTLY GRASS AND TREES. THE AVERAGE SLOPE ACROSS THE SITE IS 7% TO THE NORTHWEST.

DEVELOPED CONDITIONS

- THE PROPOSED SITE WILL BECOME SHADY HOLLOW VILLAGE AND WILL INCLUDE 13 HOUSING UNITS, A BASKETBALL AREA, A PUTTING GREEN AND A PARKING LOT.
- SIDEWALKS, ROOFTOPS, BASKETBALL AREA, PARKING LOT = 59,485 SQ.FT. (1.37 ACRES)
- LANDSCAPE AREAS = 31,085 SQ.FT. (0.71 ACRES)

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

- CLEARING (Oct 2014 - Oct 2014)
- MASS GRADING (Oct 2014 - Nov 2014)
- UTILITY INSTALLATION (Nov 2014 - Dec 2014)
- STREET CONSTRUCTION (April 2015 - May 2015)
- FINAL STABILIZATION (May 2015)

ESTIMATE OF TOTAL PERMITTED PROJECT AREA

- TOTAL ESTIMATED PERMITTED SITE AREA = 2.62 ACRES = 114,270 SQ.FT.

TOTAL DISTURBED AREA

- TOTAL PRIVATE ONSITE AREA = 2.08 ACRES = 90,570 SQ.FT.
- TOTAL PUBLIC OFFSITE AREA = 0.54 ACRES = 23,700 SQ.FT.

SITE SOIL CLASSIFICATION:

ON-SITE SOILS HAVE A MODERATE EROSION POTENTIAL. FILL MATERIAL SHALL BE GENERATED ON-SITE FROM GRADING EXCAVATION AND UTILITY TRENCH SPOILS OR OTHERWISE IMPORTED GRANULAR MATERIAL.

RECEIVING WATER BODIES:

TRIBUTARY OF ROCK CREEK

PERMITTEE'S SITE INSPECTOR:

DAVID IRISH
 COMPANY/AGENCY: CARLSON TESTING
 PHONE: 503-601-8250
 FAX:

E-MAIL:
 DESCRIPTION OF EXPERIENCE: STATE OF WASHINGTON, CERTIFIED EROSION AND SEDIMENT CONTROL LEAD, No: UW073-751803
 SERVED AS FIELD TECHNICIAN FOR MULTIPLE COMMERCIAL PROJECTS IN THE STATE OF OREGON INCLUDING: NEVAH-SHALOM IMPROVEMENTS IN PORTLAND, OREGON;
 PENSKE TRUCK CENTER IN CLACKAMAS, OREGON;
 WEBB DISTRICT ROAD IN CLACKAMIE, OREGON

INSPECTION FREQUENCY:

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING.
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY TWO (2) WEEKS.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.

- HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-CN PERMIT REQUIREMENTS.
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-CN PERMIT REQUIREMENTS.
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION.

BMP MATRIX FOR CONSTRUCTION PHASES

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S.

	CLEARING	MASS GRADING	UTILITY INSTALLATION	STREET CONSTRUCTION	FINAL STABILIZATION	WET WEATHER (OCT. 1 - MAY 31ST)
EROSION PREVENTION						
PRESERVE NATURAL VEGETATION	**X	X	X	X	X	X
GROUND COVER					X	X
HYDRAULIC APPLICATIONS					X	X
PLASTIC SHEETING					X	X
MATTING					X	X
DUST CONTROL	**X	X	X	X	X	X
TEMPORARY PERMANENT SEEDING					X	X
BUFFER ZONE					X	X
OTHER:						
SEDIMENT CONTROL						
SEDIMENT FENCE (PERIMETER)	**X	X	X	X	X	X
SEDIMENT FENCE (INTERIOR)					X	X
STRAW MATS					X	X
FILTER BERM					X	X
INLET PROTECTION	**X	X	X	X	X	X
DEWATERING					X	X
SEDIMENT TRAP	**X	X	X	X	X	X
OTHER:						
RUN-OFF CONTROL						
CONSTRUCTION ENTRANCE	**X	X	X	X	X	X
PIPE SLOPE DRAIN					X	X
OUTLET PROTECTION					X	X
SURFACE ROUGHENING					X	X
CHECK DAMS					X	X
OTHER:						
POLLUTION PREVENTION						
PROPER STORAGE						
HAZ WASTE MGMT						
SPILL KIT ON-SITE						
CONCRETE WASHOUT AREA						
OTHER:						

** SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY.

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

CGP
 INITIAL

SHEET INDEX

EROSION AND SEDIMENT CONTROL PLANS

SD4.1A	EROSION AND SEDIMENT CONTROL COVER SHEET
SD4.1B	CLEARING AND DEMOLITION EROSION AND SEDIMENT CONTROL PLAN
SD4.1C	DRAINAGE, GRADING AND STABILIZATION CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN
SD4.2	EROSION AND SEDIMENT CONTROL DETAILS

PROJECT NUMBER: 1335

DRAWING DATE BY
 DESIGN 20 NOV 2013 SCS
 11 FEB 2014 SCS

DES REV 12 MAR 2014 SCS

PERMIT 22 AUG 2014 SCS

PLAN CHECK
 08 OCT 2014 CGP
 21 OCT 2014 CGP
 06 JAN 2015 CGP
 23 JAN 2015 CGP
 28 JAN 2015 CGP

SHEET TITLE
EROSION CONTROL COVER SHEET

SHEET #
SD4.1A

PROJECT LOCATION:

CORNER OF WILLAMETTE DRIVE AND SHADY HOLLOW WAY
 IN THE CITY OF WEST LINN, OREGON
 LATITUDE = 45.393041, LONGITUDE = -122.646871

PROPERTY DESCRIPTION:

TAX LOT: 45, 46, & 47 (LOCATED IN THE SE 1/4 OF SECTION 14,
 TOWNSHIP 2 SOUTH, RANGE 1 EAST, WILLAMETTE MERIDIAN, CITY OF WEST
 LINN, CLACKAMAS COUNTY, STATE OF OREGON)

ATTENTION EXCAVATORS:

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 THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

LEGEND

- EXISTING GROUND CONTOUR (2 FT)
- EXISTING GROUND CONTOUR (10 FT)
- EXISTING TREE FENCING, 10' PAST DRIP LINE
- BIO-BAG
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- SEDIMENT BARRIER (PERIMETER)
- SEDIMENT BARRIER (INTERIOR)
- ORANGE CONSTRUCTION FENCE
- SEDIMENT TRAP
- BRUSH BARRIER
- CHECK DAM
- CONSTRUCTION ENTRANCE
- DIVERSION DIKE
- DIVERSION SWALE
- DIVERSION DIKE/SWALE
- INLET PROTECTION, SEE 3/SD4.2 & 4/SD4.2
- SEDIMENT MAT
- TEMPORARY SLOPE DRAIN
- ROCK FILTER BERM
- TEMPORARY SLOPE STABILIZATION MEASURES
- DRAINAGE FLOW DIRECTION

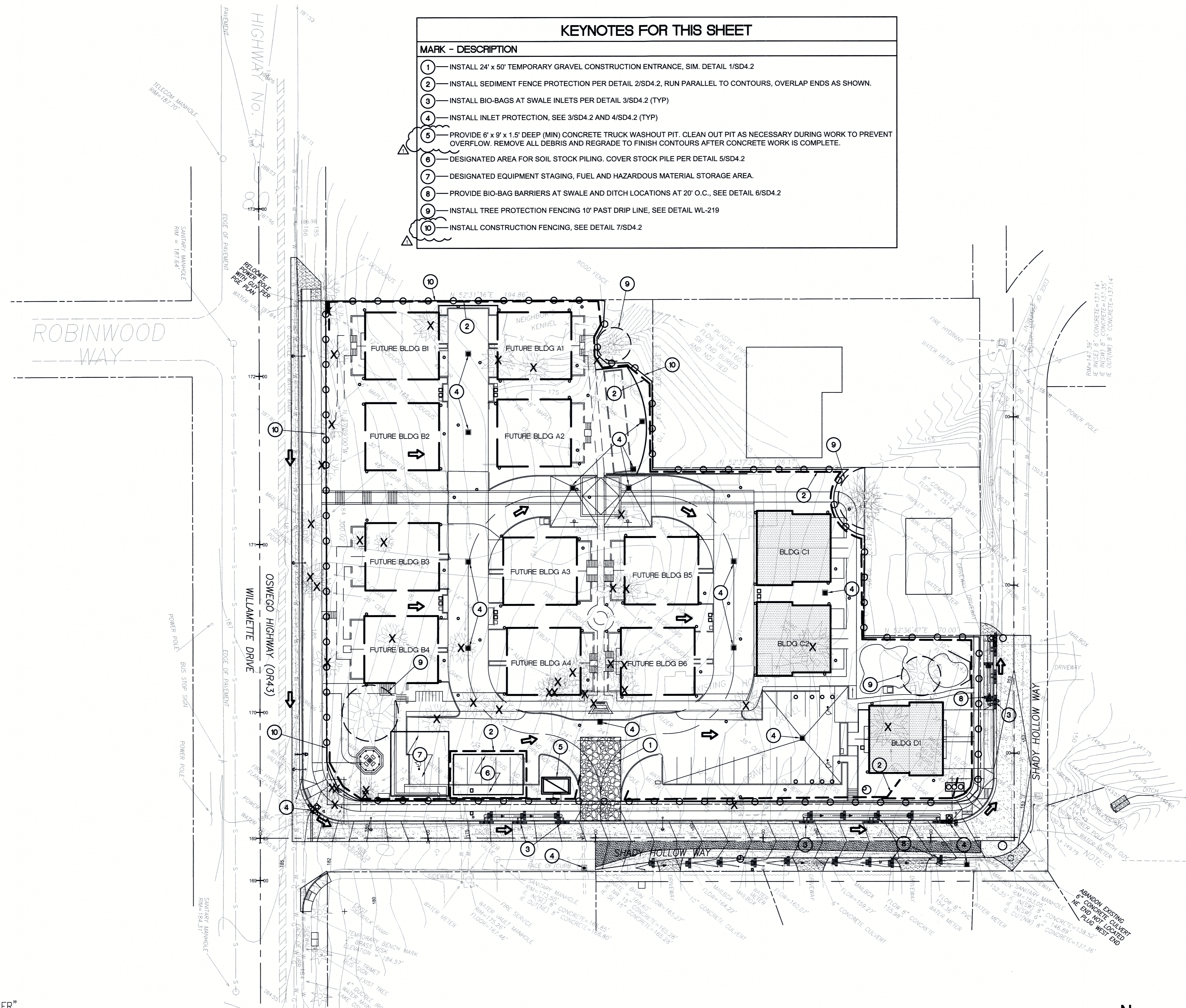
PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.

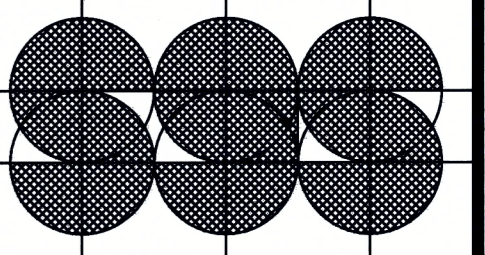
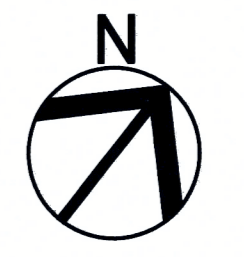
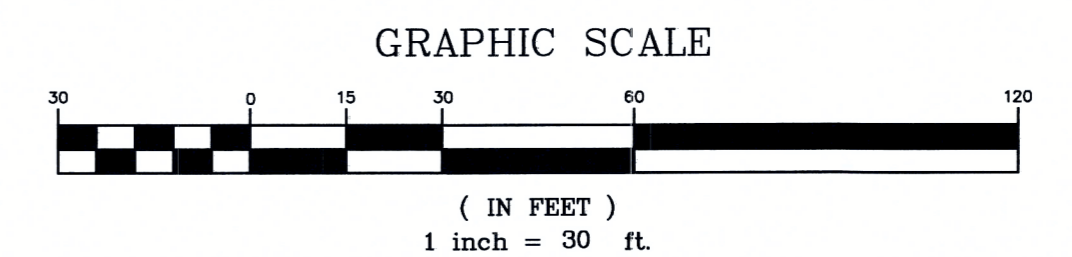
THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

KEYNOTES FOR THIS SHEET

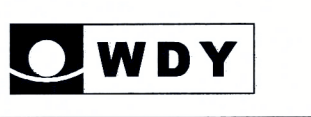
- | MARK | DESCRIPTION |
|------|---|
| 1 | INSTALL 24' x 50' TEMPORARY GRAVEL CONSTRUCTION ENTRANCE, SIM. DETAIL 1/SD4.2 |
| 2 | INSTALL SEDIMENT FENCE PROTECTION PER DETAIL 2/SD4.2, RUN PARALLEL TO CONTOURS, OVERLAP ENDS AS SHOWN. |
| 3 | INSTALL BIO-BAGS AT SWALE INLETS PER DETAIL 3/SD4.2 (TYP) |
| 4 | INSTALL INLET PROTECTION, SEE 3/SD4.2 AND 4/SD4.2 (TYP) |
| 5 | PROVIDE 6' x 9' x 1.5' DEEP (MIN) CONCRETE TRUCK WASHOUT PIT. CLEAN OUT PIT AS NECESSARY DURING WORK TO PREVENT OVERFLOW. REMOVE ALL DEBRIS AND REGRADE TO FINISH CONTOURS AFTER CONCRETE WORK IS COMPLETE. |
| 6 | DESIGNATED AREA FOR SOIL STOCK PILING. COVER STOCK PILE PER DETAIL 5/SD4.2 |
| 7 | DESIGNATED EQUIPMENT STAGING, FUEL AND HAZARDOUS MATERIAL STORAGE AREA. |
| 8 | PROVIDE BIO-BAG BARRIERS AT SWALE AND DITCH LOCATIONS AT 20' O.C., SEE DETAIL 6/SD4.2 |
| 9 | INSTALL TREE PROTECTION FENCING 10' PAST DRIP LINE, SEE DETAIL WL-219 |
| 10 | INSTALL CONSTRUCTION FENCING, SEE DETAIL 7/SD4.2 |



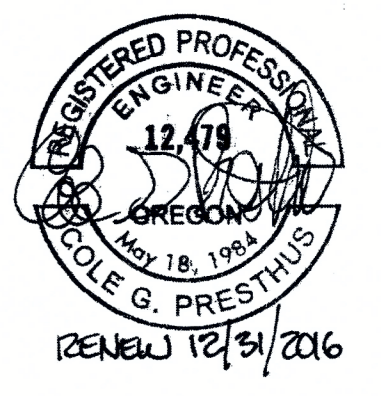
1 CLEARING AND DEMOLITION EROSION AND SEDIMENT CONTROL PLAN
 SD4.1B SCALE: 1"=30'-0"



STEWART GORDON STRAUS
 ARCHITECT
 6775 SW 111TH AVENUE
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 BEAVERTON, OR 97008
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SHADY HOLLOW VILLAGE
 SHADY HOLLOW AND WILLAMETTE DRIVE
 WEST LINN, OREGON

PROJECT NUMBER:	1335
DRAWING DATE BY	DESIGN
	20 NOV 2013 S65
	11 FEB 2014 S65
DES REV	
	12 MAR 2014 S65
PERMIT	
	22 AUG 2014 S65
PLAN CHECK	
	08 OCT 2014 CGP
	21 OCT 2014 CGP
	06 JAN 2015 CGP
	23 JAN 2015 CGP
	28 JAN 2015 CGP
SHEET TITLE	CLEARING + DEMO ESC PLAN
SHEET #	SD4.1B

LEGEND

- FINISHED GRADE CONTOUR (2 FT)
- FINISHED GRADE CONTOUR (10 FT)
- SEDIMENT BARRIER (PERIMETER)
- SEDIMENT BARRIER (INTERIOR)
- ORANGE CONSTRUCTION FENCE
- BRUSH BARRIER
- CHECK DAM
- CONSTRUCTION ENTRANCE
- DIVERSION DIKE
- DIVERSION SWALE
- DIVERSION DIKE/SWALE
- INLET PROTECTION
- SEDIMENT MAT
- TEMPORARY SLOPE DRAIN
- COMPOST BLANKET
- SEEDING & MULCHING
- CONCRETE WASH AREA
- OUTLET PROTECTION
- ROCK FILTER BERM
- TEMPORARY SLOPE STABILIZATION MEASURES
- LONG TERM SLOPE STABILIZATION MEASURES
- NEW IMPERVIOUS SURFACE
- DRAINAGE FLOW DIRECTION

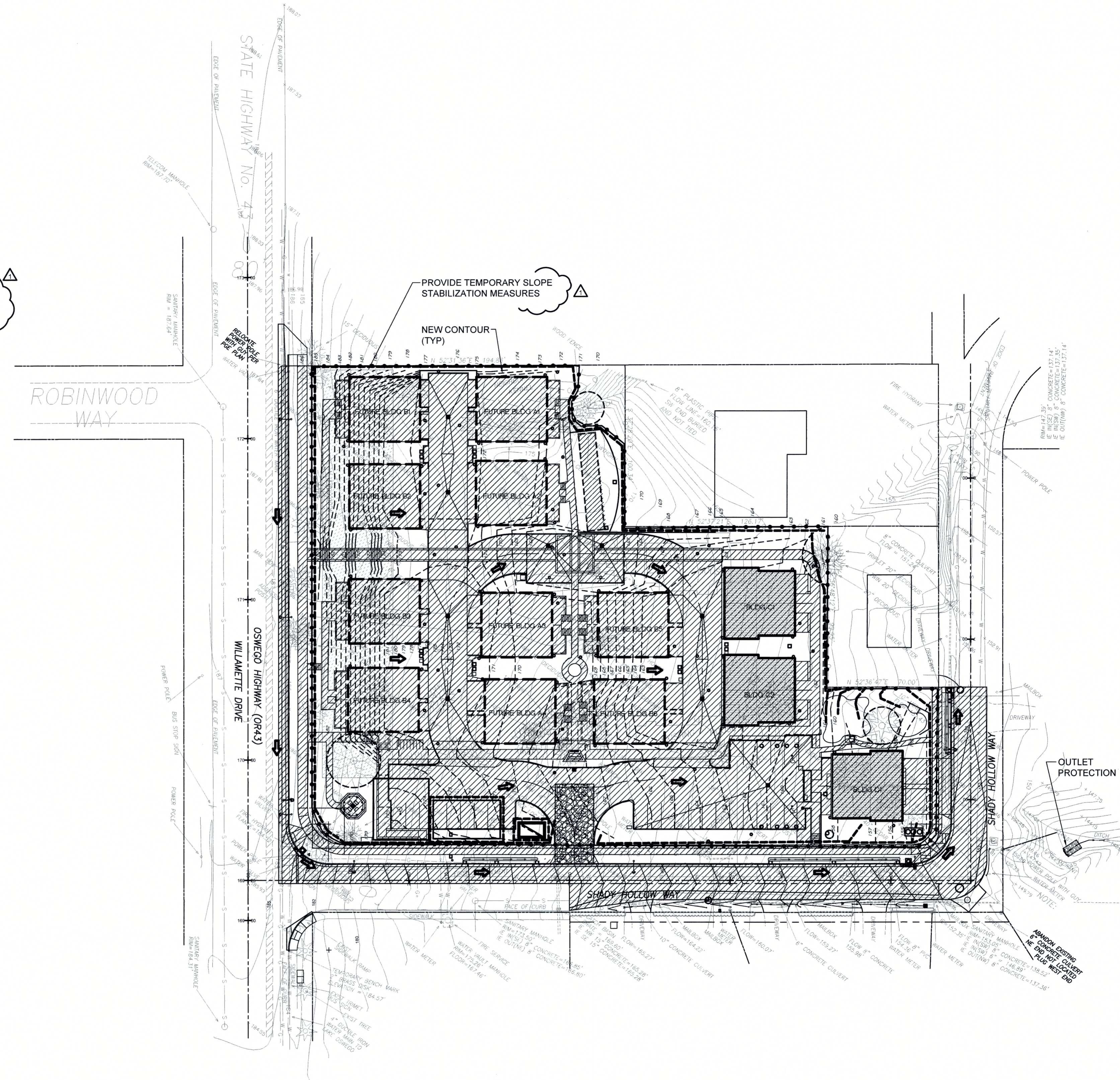
GRADING, STREET AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:

1. SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
 - A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.
 - B. DWARF GRASS MIX (MIN. 100 LB./AC.)
 1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
 2. CREEPING RED FESCUE (20% BY WEIGHT)
 - C. STANDARD HEIGHT GRASS MIX (MIN. 100LB./AC.)
 1. ANNUAL RYEGRASS (40% BY WEIGHT)
 2. TURF-TYPE FESCUE (60% BY WEIGHT)
2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, 2" OF COMPOST COVER OR OTHER APPROVED MEASURES.
5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.
10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.
11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.
12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.
14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
3. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.
4. THE STORM WATER FACILITY SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
5. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

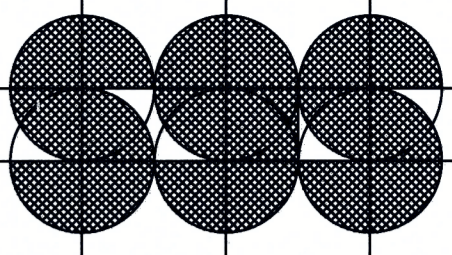
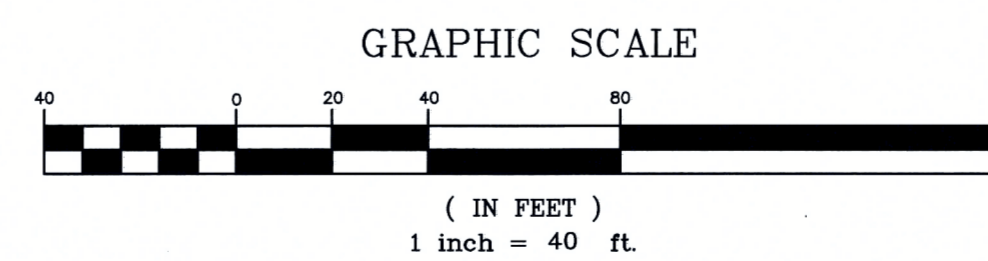
THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.



1
SD4.1C

DRAINAGE, GRADING AND STABILIZATION CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=40'-0"



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SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILAMETTE DRIVE
WEST LINN, OREGON

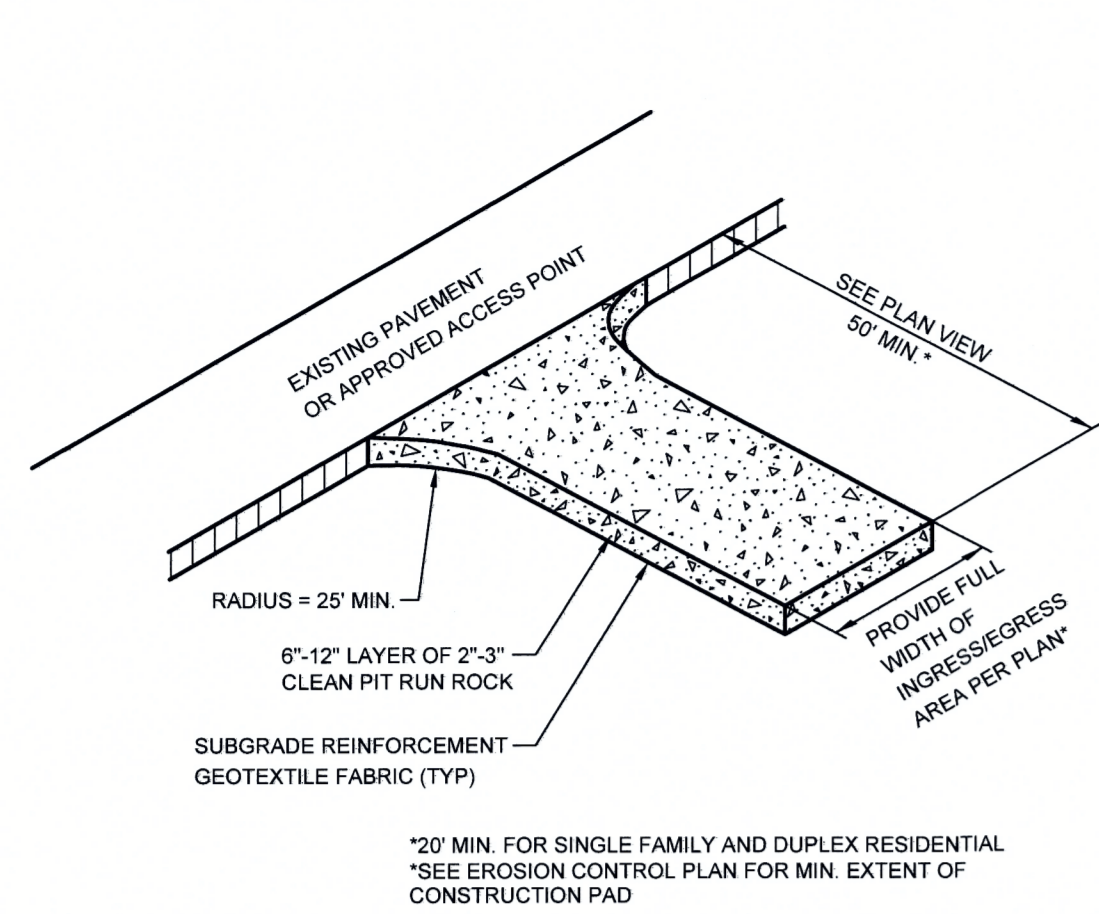
PROJECT NUMBER: 1335

DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	12 MAR 2014	SGS
PERMIT	22 AUG 2014	SGS

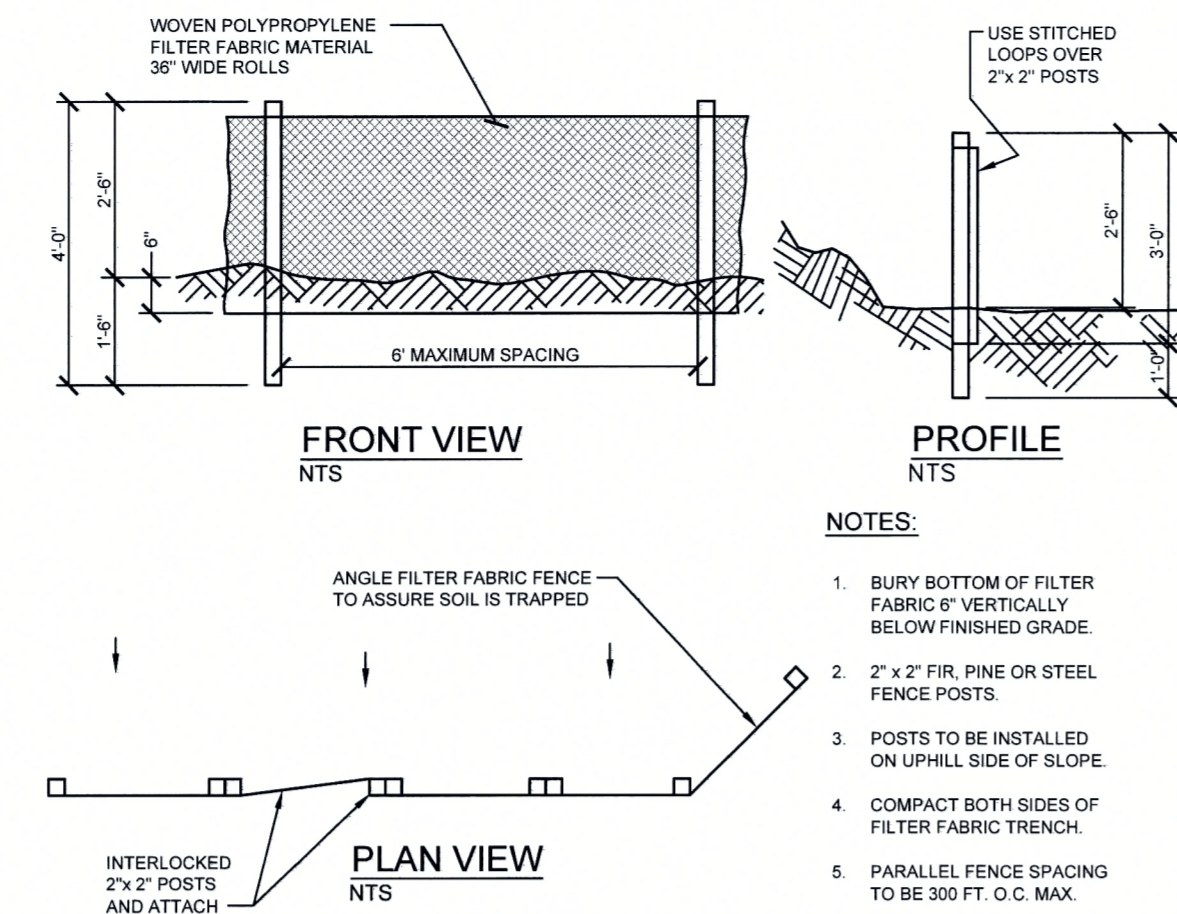
PLAN CHECK	DATE	BY
△	08 OCT 2014	CGP
△	21 OCT 2014	CGP
△	06 JAN 2015	CGP
△	23 JAN 2015	CGP
△	28 JAN 2015	CGP

SHEET TITLE
DRAINAGE, GRADING
+ STABILIZATION

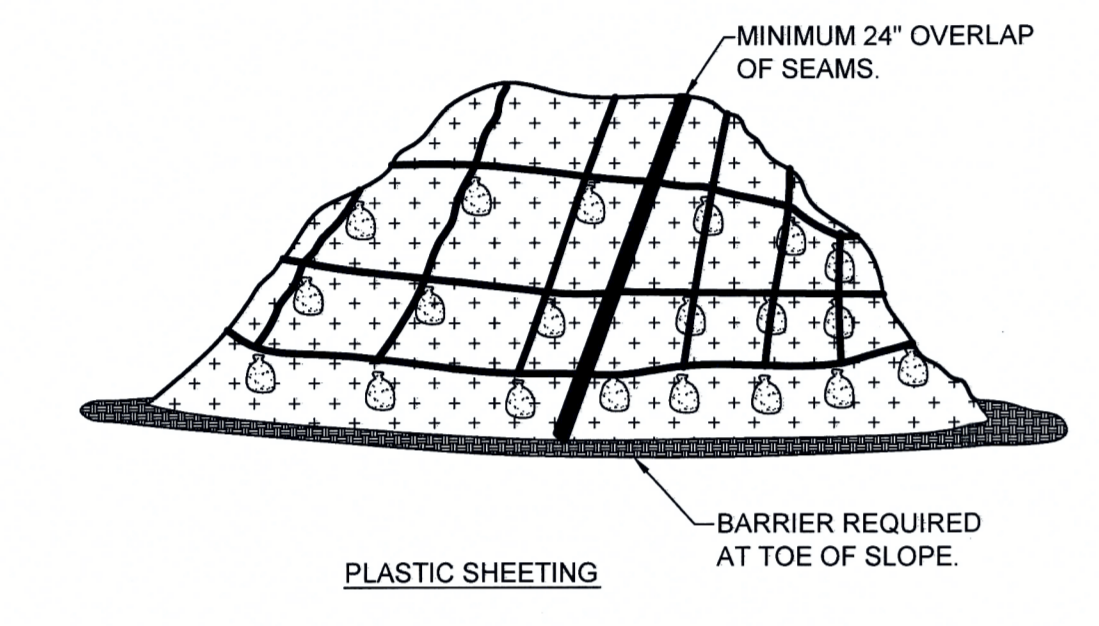
SHEET #
SD4.1C



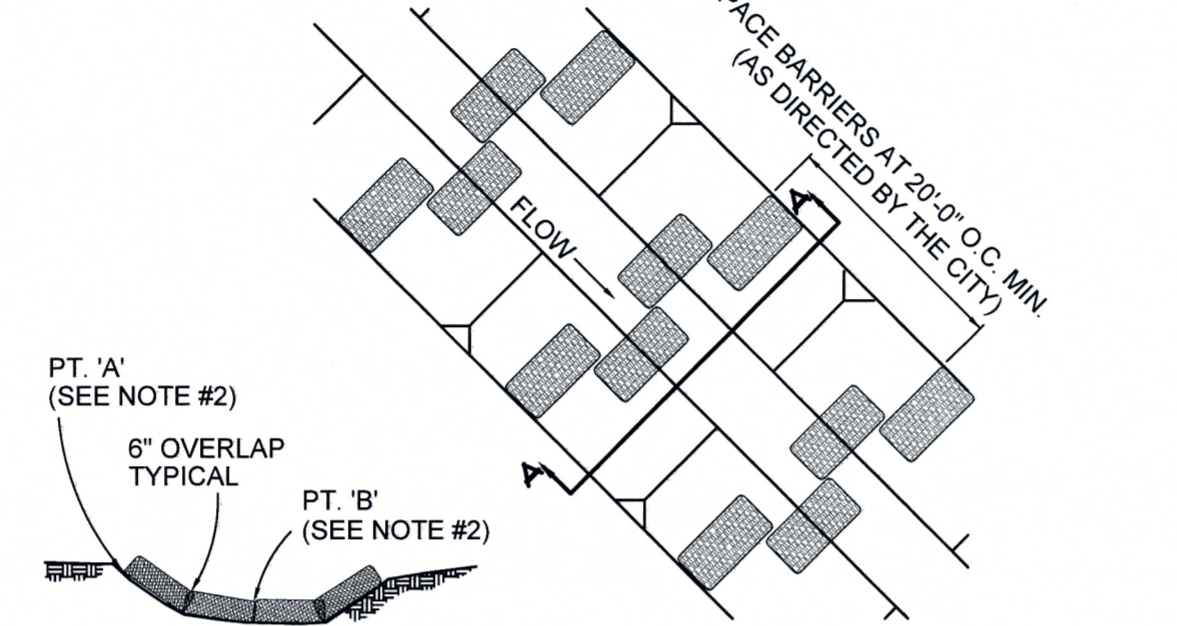
1 GRAVEL CONSTRUCTION ENTRANCE (SEE EROSION CONTROL NOTES)
SD4.2 N.T.S. gravelEnt.dwg



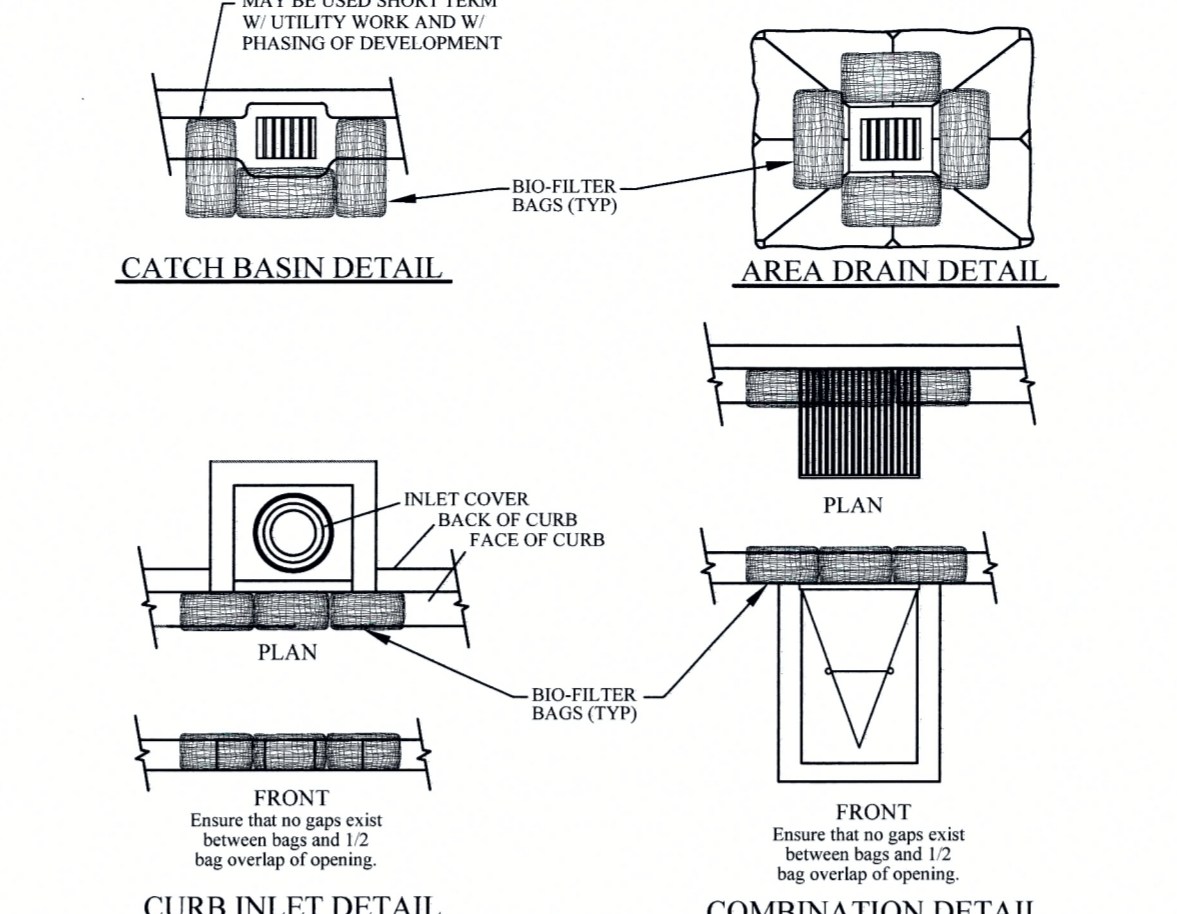
2 SEDIMENT FENCE
SD4.2 N.T.S. SedFence.dwg



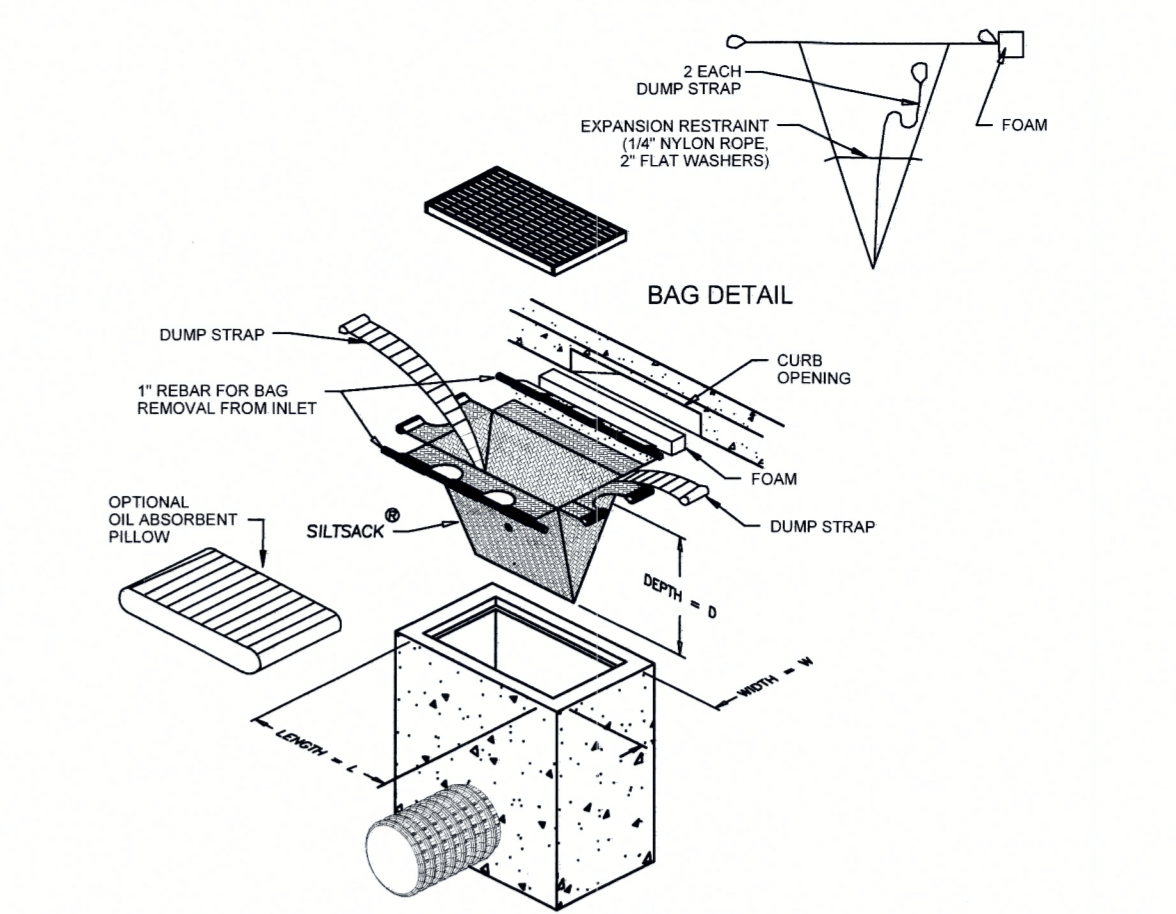
5 SOIL STOCK PILE COVERING
SD4.2 N.T.S. Soil_Stockpile.dwg



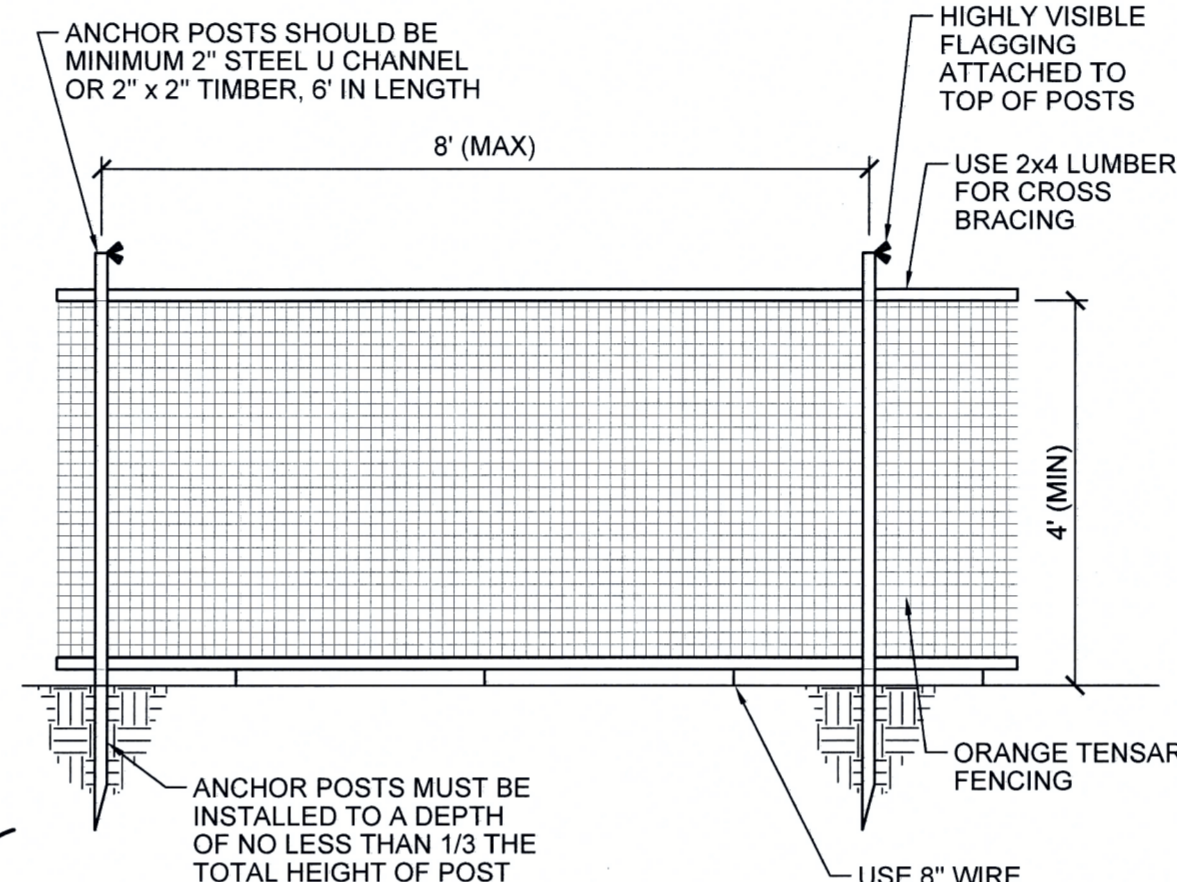
6 BIOFILTER BAGS IN DITCHES AND SWALES
SD4.2 N.T.S. Swale-Biobag.dwg



3 INLET PROTECTION - TEMPORARY
SD4.2 N.T.S. InletBag.dwg



4 CATCH BASIN INSERT BAG AND CURB OVERFLOW INLET PROTECTION
SD4.2 N.T.S.



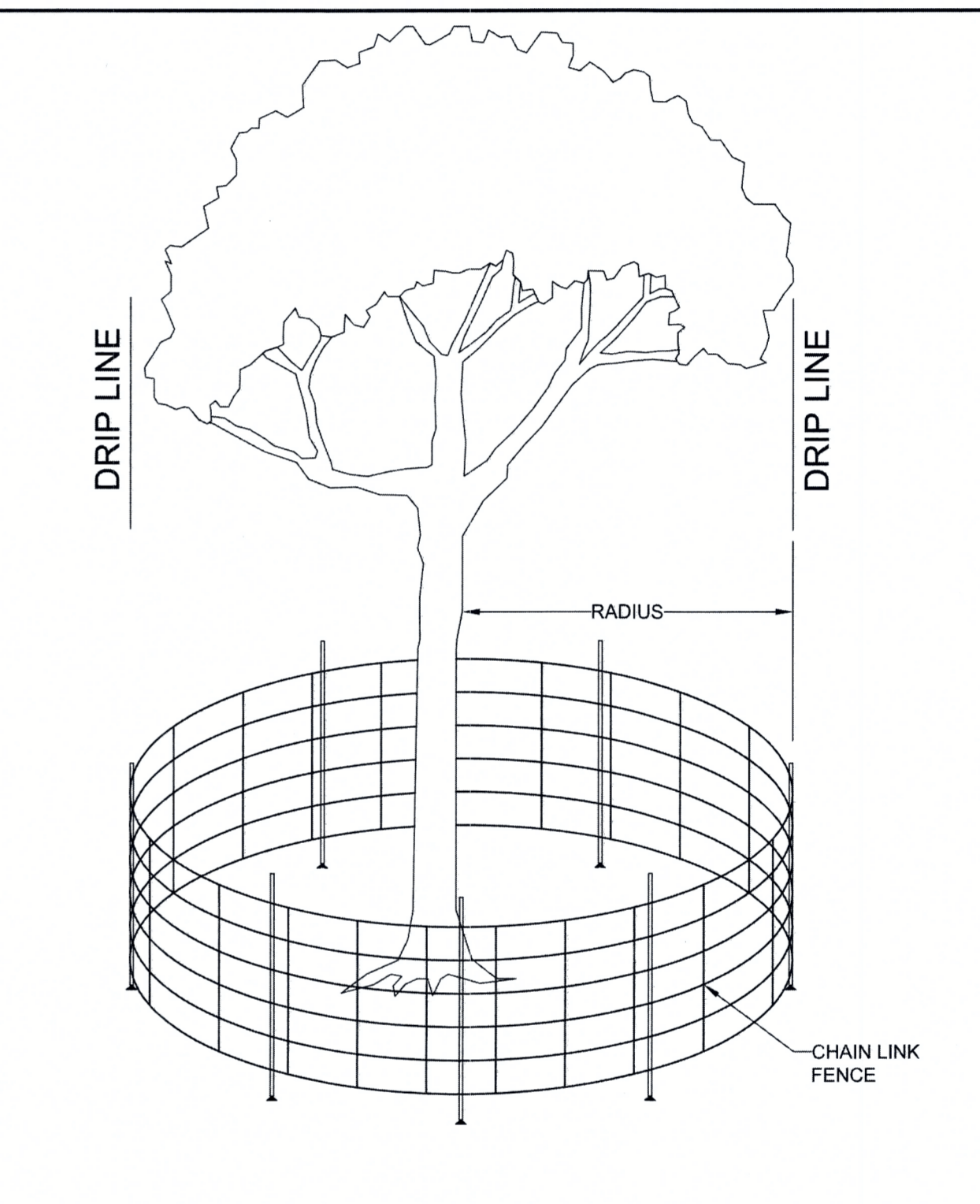
7 CONSTRUCTION FENCING
SD4.2 N.T.S.

OTHER MISCELLANEOUS BMP NOTES:

- TO PREVENT ILLICIT CONNECTION AND ILLEGAL DISCHARGE :
 1. INSPECT SITE BEFORE BEGINNING THE JOB FOR EVIDENCE OF ILLICIT CONNECTIONS OR ILLEGAL DUMPING OR DISCHARGES.
 2. INSPECT SITE REGULARLY DURING PROJECT EXECUTION FOR EVIDENCE OF ILLICIT CONNECTIONS OR ILLEGALLY DUMPED MATERIAL WHICH MAY ENTER THE JOB SITE.
 3. OBSERVE SITE PERIMETER FOR EVIDENCE OR POTENTIAL OF ILLICITLY DISCHARGED OR ILLEGALLY DUMPED MATERIAL WHICH MAY ENTER THE JOB SITE.
 4. IDENTIFICATION OF ILLICIT CONNECTIONS AND ILLEGAL DUMPING OR DISCHARGES:
 - A. SOLIDS: LOOK FOR DEBRIS, OR RUBBISH PILES, SOLID WASTE DUMPING OFTEN OCCURS ON ROADWAYS WITH LIGHT TRAFFIC LOADS OR IN AREAS NOT EASILY VISIBLE FROM THE TRAVELED WAY.
 - B. LIQUIDS:
 1. VISIBLE SIGNS OF STAINING OR UNUSUAL COLORS TO THE PAVEMENT OR SURROUNDING ADJACENT SOILS.
 2. DISCOLORATION OR OILY SUBSTANCES IN THE WATER OR STAINS AND RESIDUES DETAINED WITH DITCHES, CHANNELS OR DRAINAGE BOXES.
 3. PUNGENT ODORS COMING FROM THE DRAINAGE SYSTEMS.
 4. ABNORMAL WATER FLOW DURING THE DRY WEATHER SEASON.
 5. URBAN AREAS - EVIDENCE OF ILLICIT CONNECTIONS OR ILLEGAL DISCHARGES IS TYPICALLY DETECTED AT THE STORM DRAIN OUTFALL LOCATIONS OR AT THE MANHOLES. SIGNS OF AN ILLICIT CONNECTION OR ILLEGAL DISCHARGE CAN INCLUDE:
 - ABNORMAL WATER FLOW DURING THE DRY WEATHER SEASON.
 - UNUSUAL FLOWS IN SUB-DRAIN SYSTEMS USED FOR DEWATERING.
 - PUNGENT ODORS COMING FROM THE DRAINAGE SYSTEMS.
 - DISCOLORATION OR OILY SUBSTANCES IN THE WATER OR STAINS AND RESIDUES DETAINED WITHIN DITCHES.
 - EXCESSIVE SEDIMENT DEPOSITS, PARTICULARLY ADJACENT TO OR NEAR ACTIVE OFF-SITE CONSTRUCTION.
 5. NOTIFY THE PROJECT SUPERINTENDENT OF ANY ILLICIT CONNECTIONS, DUMPINGS, OR DISCHARGES AT THE TIME OF DISCOVERY.
 6. VEHICLES AND EQUIPMENT SHOULD BE WASHED OFF SITE AT A CONTROLLED WASH FACILITY WHEN AT ALL POSSIBLE.
 7. USE "DRY CLEANING METHODS" SUCH AS WIPING DOWN WHENEVER POSSIBLE RATHER THAN WATER WASHING VEHICLES ON SITE.
 8. IF CLEANING MUST BE CONDUCTED ON-SITE, IT SHALL BE CONDUCTED IN A DEDICATED AREA WITH THE FOLLOWING CHARACTERISTICS:
 - A. LOCATED AWAY FROM THE STORM DRAIN INLETS, DRAINAGE FACILITIES, OR WATERCOURSES.
 - B. PAVED WITH CONCRETE OR ASPHALT, OR STABILIZED WITH AN AGGREGATE BASE.
 - C. BERMED TO CONTAIN WASH WATERS AND TO PREVENT RUN-ON AND RUNOFF.
 - D. CONFIGURED WASH AREA WITH A SUMP TO ALLOW COLLECTION AND DISPOSAL OF WASH WATER.
 - E. DISCHARGE WASH WATER TO A SANITARY OR PROCESS WASTE SEWER (WHERE PERMITTED), OR TO A DEAD END SUMP. WASH WATERS SHALL NOT BE DISCHARGED TO STORM DRAINS OR WATERCOURSES.
 - F. USED ONLY WHEN NECESSARY.
 9. WHEN CLEANING VEHICLES OR EQUIPMENT WITH WATER:
 - A. USE AS LITTLE WATER AS POSSIBLE. CONSIDER USING A HIGH PRESSURE SPRAYER AND USE THE POSITIVE SHUTOFF VALVE.
 - B. DO NOT USE SOLVENTS OR DETERGENTS TO CLEAN VEHICLES OR EQUIPMENT ON SITE.
 - C. DO NOT USE STEAM CLEANING ON SITE.
 10. INSPECT AND CLEAN WORK AREAS REGULARLY TO LIMIT WIND BLOWN DEBRIS AND POLLUTANTS TRANSPORTED BY STORMWATER.

TO REUSE AND RECYCLE CONSTRUCTION WASTES:
 1. USE TRENCH SPOILS AND CUT AREA SOIL FOR FILL UNSUITABLE AND EXCESS MATERIAL SHALL BE HAULED OFF SITE TO AN APPROVED LOCATION. IMPORTED FILL MATERIAL SHALL BE APPROVED BY THE PROJECT'S GEOTECHNICAL ENGINEER.

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.



TREE PROTECTION FENCE
 DATE: 2010
 DRAWING NO: WL-219
 FILE NO:

STEWART GORDON STRAUS ARCHITECT
 6775 SW 111TH AVENUE SUITE 20
 BEAVERTON, OR 97008
 (503) 672-7517 (OFFICE)
 (503) 672-7808 (FAX)
 sgs@s-straus.com (e-mail)

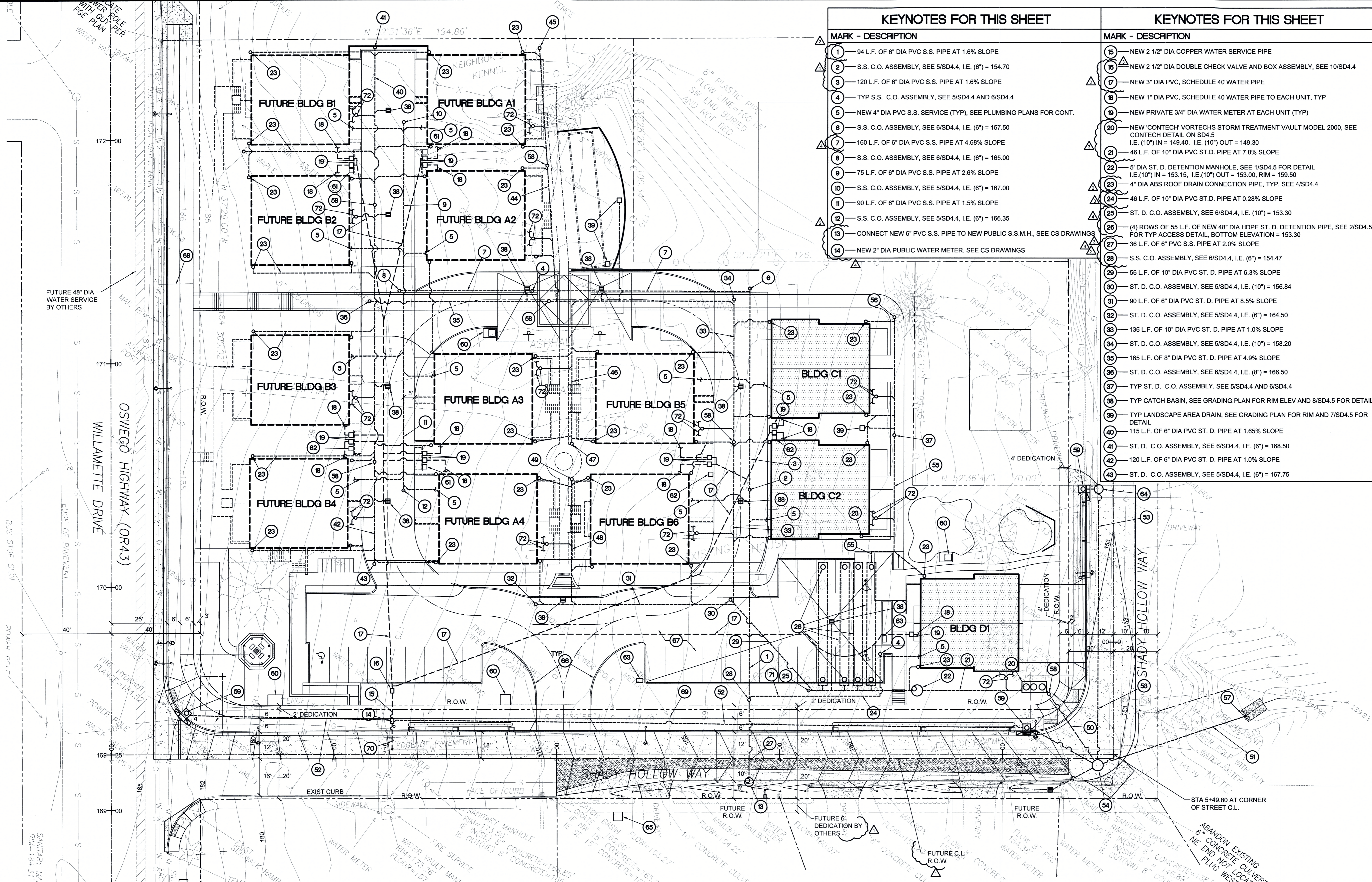
WDY
 Structural - Civil Engineers
 6443 SW Beaverton-Hillsdale Hwy, suite 210
 Portland, Oregon 97221
 ph: 503.203.8111 fx: 503.203.8122
 www.wdy.com



SHADY HOLLOW VILLAGE
 SHADY HOLLOW AND WILLAMETTE DRIVE
 WEST LINN, OREGON

PROJECT NUMBER:	1335
DRAWING DATE BY	DESIGN
	20 NOV 2013 SCS
	11 FEB 2014 SCS
DES REV	
	12 MAR 2014 SCS
PERMIT	
	22 AUG 2014 SCS
PLAN CHECK	
	08 OCT 2014 CGP
	21 OCT 2014 CGP
	06 JAN 2015 CGP
	23 JAN 2015 CGP
	28 JAN 2015 CGP

SHEET TITLE
EROSION CONTROL DETAILS
 SHEET #
SD4.2



1 **ONSITE UTILITY PLAN**
 SD4.3 SCALE: 1"=20'-0"

GRAPHIC SCALE
 (IN FEET)
 1 inch = 20 ft.

KEYNOTES FOR THIS SHEET

MARK	DESCRIPTION
1	94 L.F. OF 6" DIA PVC S.S. PIPE AT 1.6% SLOPE
2	S.S. C.O. ASSEMBLY, SEE 5/SD4.4, I.E. (6") = 154.70
3	120 L.F. OF 6" DIA PVC S.S. PIPE AT 1.6% SLOPE
4	TYP S.S. C.O. ASSEMBLY, SEE 5/SD4.4 AND 6/SD4.4
5	NEW 4" DIA PVC S.S. SERVICE (TYP), SEE PLUMBING PLANS FOR CONT.
6	S.S. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (6") = 157.50
7	160 L.F. OF 6" DIA PVC S.S. PIPE AT 4.68% SLOPE
8	S.S. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (6") = 165.00
9	75 L.F. OF 6" DIA PVC S.S. PIPE AT 2.8% SLOPE
10	S.S. C.O. ASSEMBLY, SEE 5/SD4.4, I.E. (6") = 167.00
11	90 L.F. OF 6" DIA PVC S.S. PIPE AT 1.5% SLOPE
12	S.S. C.O. ASSEMBLY, SEE 5/SD4.4, I.E. (6") = 166.35
13	CONNECT NEW 6" PVC S.S. PIPE TO NEW PUBLIC S.S.M.H., SEE CS DRAWINGS
14	NEW 2" DIA PUBLIC WATER METER, SEE CS DRAWINGS

KEYNOTES FOR THIS SHEET

MARK	DESCRIPTION
15	NEW 2 1/2" DIA COPPER WATER SERVICE PIPE
16	NEW 2 1/2" DIA DOUBLE CHECK VALVE AND BOX ASSEMBLY, SEE 10/SD4.4
17	NEW 3" DIA PVC, SCHEDULE 40 WATER PIPE
18	NEW 1" DIA PVC, SCHEDULE 40 WATER PIPE TO EACH UNIT, TYP
19	NEW PRIVATE 3/4" DIA WATER METER AT EACH UNIT (TYP)
20	NEW 'CONTECH' VORTECHS STORM TREATMENT VAULT MODEL 2000, SEE CONTECH DETAIL ON SD4.5
21	46 L.F. OF 10" DIA PVC ST.D. PIPE AT 7.8% SLOPE
22	5" DIA ST. D. DETENTION MANHOLE, SEE 1/SD4.5 FOR DETAIL I.E.(10") IN = 153.15, I.E.(10") OUT = 159.50
23	4" DIA ABS ROOF DRAIN CONNECTION PIPE, TYP, SEE 4/SD4.4
24	46 L.F. OF 10" DIA PVC ST.D. PIPE AT 0.28% SLOPE
25	ST. D. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (10") = 153.30
26	(4) ROWS OF 55 L.F. OF NEW 48" DIA HDPE ST. D. DETENTION PIPE, SEE 2/SD4.5 FOR TYP ACCESS DETAIL, BOTTOM ELEVATION = 153.30
27	36 L.F. OF 6" PVC S.S. PIPE AT 2.0% SLOPE
28	S.S. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (6") = 154.47
29	56 L.F. OF 10" DIA PVC ST. D. PIPE AT 6.3% SLOPE
30	ST. D. C.O. ASSEMBLY, SEE 5/SD4.4, I.E. (10") = 156.84
31	90 L.F. OF 6" DIA PVC ST. D. PIPE AT 8.5% SLOPE
32	ST. D. C.O. ASSEMBLY, SEE 5/SD4.4, I.E. (6") = 164.50
33	136 L.F. OF 10" DIA PVC ST. D. PIPE AT 1.0% SLOPE
34	ST. D. C.O. ASSEMBLY, SEE 5/SD4.4, I.E. (10") = 158.20
35	165 L.F. OF 8" DIA PVC ST. D. PIPE AT 4.9% SLOPE
36	ST. D. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (8") = 166.50
37	TYP ST. D. C.O. ASSEMBLY, SEE 5/SD4.4 AND 6/SD4.4
38	TYP CATCH BASIN, SEE GRADING PLAN FOR RIM ELEV AND 8/SD4.5 FOR DETAIL
39	TYP LANDSCAPE AREA DRAIN, SEE GRADING PLAN FOR RIM AND 7/SD4.5 FOR DETAIL
40	115 L.F. OF 6" DIA PVC ST. D. PIPE AT 1.65% SLOPE
41	ST. D. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (6") = 168.50
42	120 L.F. OF 6" DIA PVC ST. D. PIPE AT 1.0% SLOPE
43	ST. D. C.O. ASSEMBLY, SEE 5/SD4.4, I.E. (6") = 167.75

KEYNOTES FOR THIS SHEET

MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION
44	113 L.F. OF 6" DIA PVC ST. D. PIPE AT 4.8% SLOPE	51	12" DIA PVC ST. D. PIPE, OUTFALL INTO EXIST NATURAL DRAINAGE WAY, SEE CS DWGS	57	6' X 10' ROCK RIP RAP PAD WITH CONCRETE HEADWALL, SEE SHT CS2.1	62	NEW ELECTRIC 3030 SECONDARY VAULT, SEE PGE PLAN	68	DECOMMISSION EXIST RESIDENTIAL WATER METER PER CITY OF WEST LINN.
45	ST. D. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (6") = 168.25	52	10" DIA PVC ST. D. PIPE, SEE CS PUBLIC IMPROVEMENT DWGS.	58	C.O. ASSEMBLY AT 100 O.C. MAX SPACING, SEE 5 OR 6 ON SD4.4	63	NEW ELECTRIC 1730 SECONDARY VAULT, SEE PGE PLAN	69	EXIST WATER METER TO REMAIN FOR NEW IRRIGATION SYSTEM.
46	64 L.F. OF 6" DIA PVC ST. D. PIPE AT 4.5% SLOPE	53	12" DIA PVC ST. D. PIPE, SEE CS PUBLIC IMPROVEMENT DWGS.	59	NEW PUBLIC CURB INLET, SEE CS DWGS.	64	NEW PUBLIC STORM DRAIN MANHOLE, SEE CS DWGS	70	NEW 2 1/2" COPPER WATER SERVICE, SEE CS DRAWINGS.
47	ST. D. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (6") = 165.20	54	NEW PUBLIC ST. D. M.H., SEE CS2.1	60	NEW ELECTRIC VAULT PER PGE PLAN	65	NEW ELECTRIC MICRO-PAD WITH GRAVEL BASE, SEE PGE PLAN	71	95 L.F. OF 4" DIA PVC S.S. PIPE AT 5.5% SLOPE
48	55 L.F. OF 6" DIA PVC ST. D. PIPE AT 10% SLOPE	55	122 L.F. OF 6" DIA PVC ST. D. PIPE AT 2.3% SLOPE	61	NEW ELECTRIC SECONDARY VAULT PER PGE PLAN	66	NEW CONC CURB, SEE 11/SD4.4 AND ARCH GRADING PLAN FOR ALL CURB LOCATIONS.	72	PROVIDE CONT PERIMETER FOUNDATION DRAIN PER DETAIL 2/SD4.4 WITH BACKWATER VALVE PER DETAIL 3/SD4.4
49	ST. D. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (6") = 165.50	56	ST. D. C.O. ASSEMBLY, SEE 5/SD4.4, I.E. (6") = 157.50			67	NEW A.C. PAVEMENT, SEE 12/SD4.4 AND ARCH GRADING PLAN FOR ALL PAVEMENT AND WALKWAY LOCATIONS.		
50	SEE SHT CS2.1 FOR 10" DIA ST. D. SERVICE								

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REGISTERED PROFESSIONAL
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 12,478
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 RENEW 12/31/2016

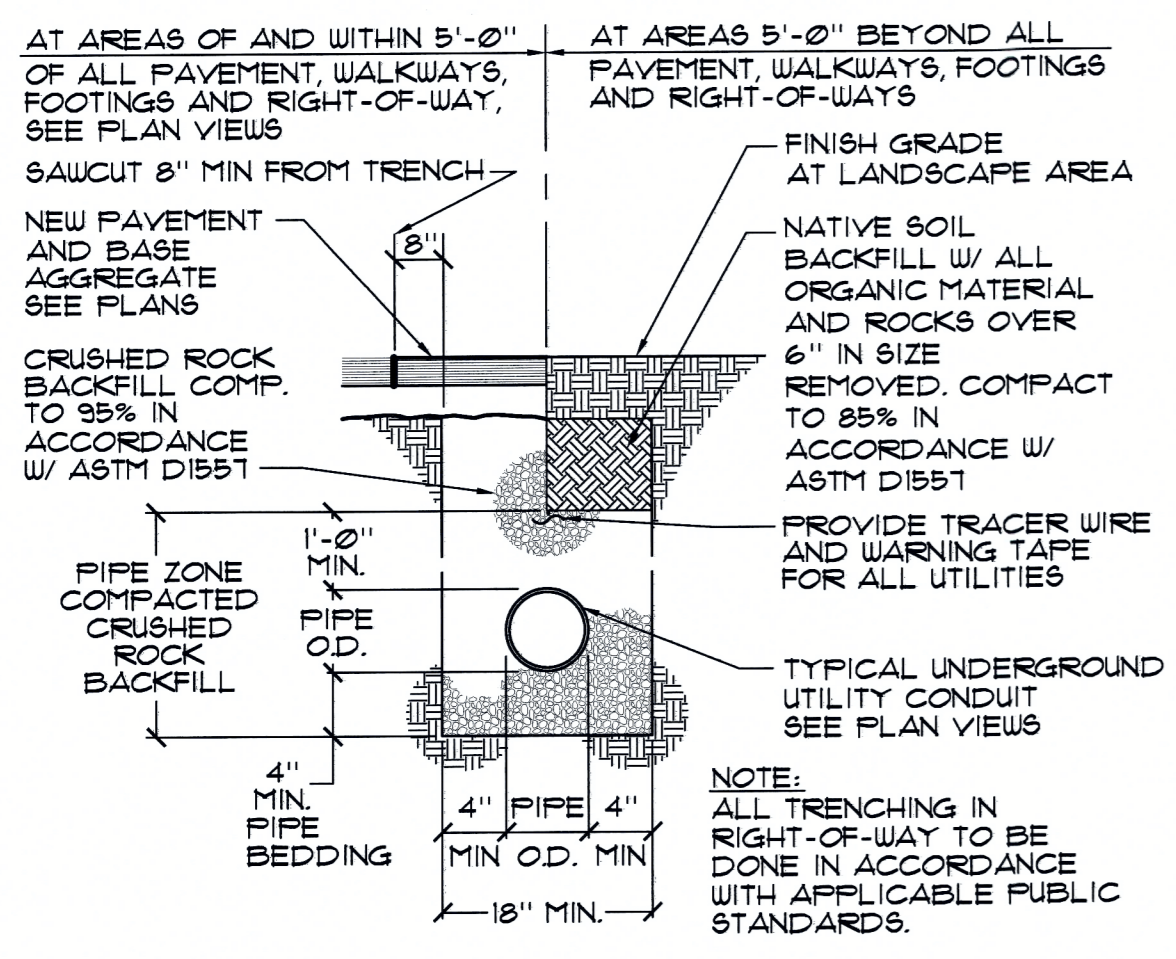
SHADY HOLLOW VILLAGE
 SHADY HOLLOW AND WILAMETTE DRIVE
 WEST LINN, OREGON

PROJECT NUMBER: 1335

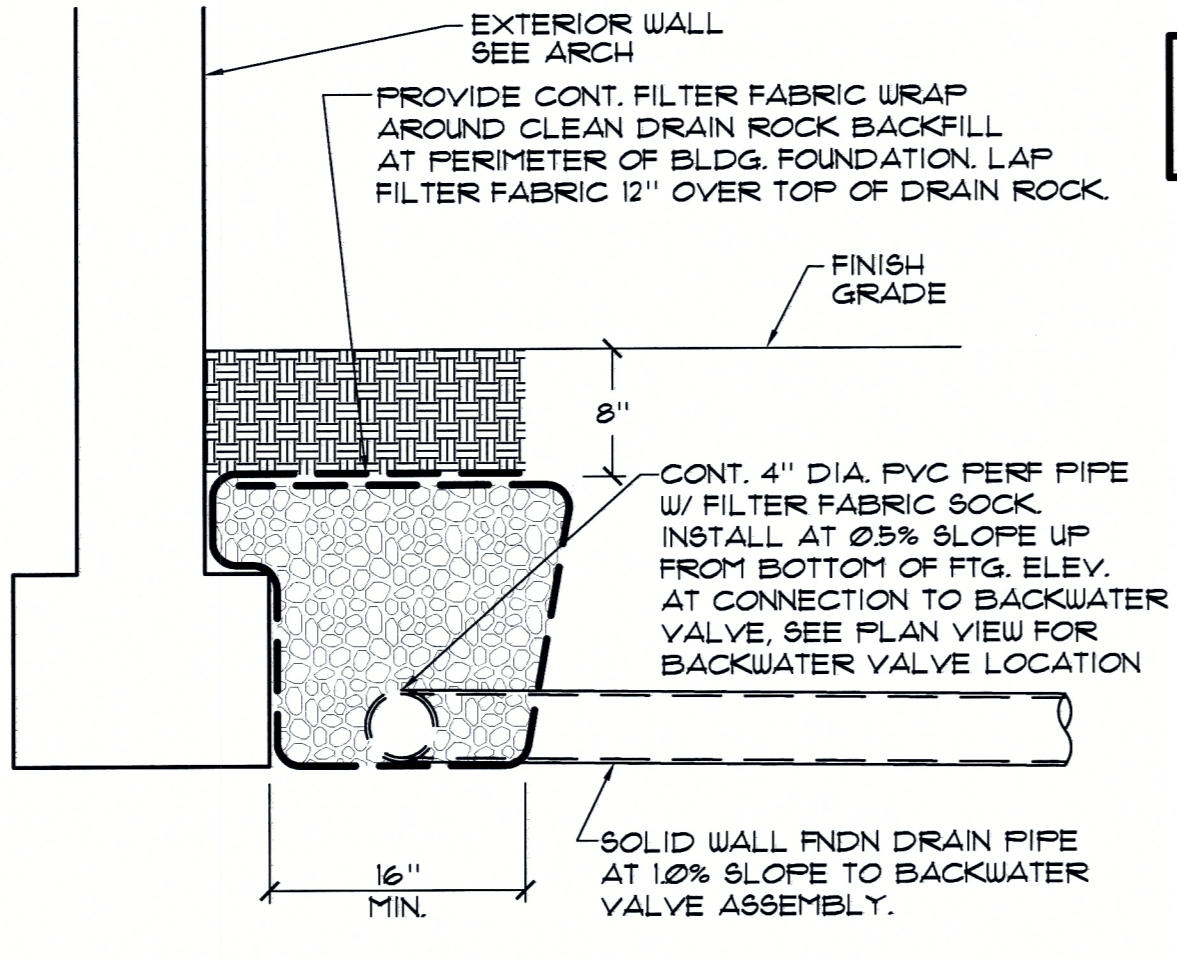
DESIGN	DATE	BY
DESIGN	20 NOV 2013	SGS
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PLAN CHECK	06 JAN 2015	CGP
PLAN CHECK	23 JAN 2015	CGP
PLAN CHECK	28 JAN 2015	CGP

SHEET TITLE
 ONSITE UTILITY PLAN

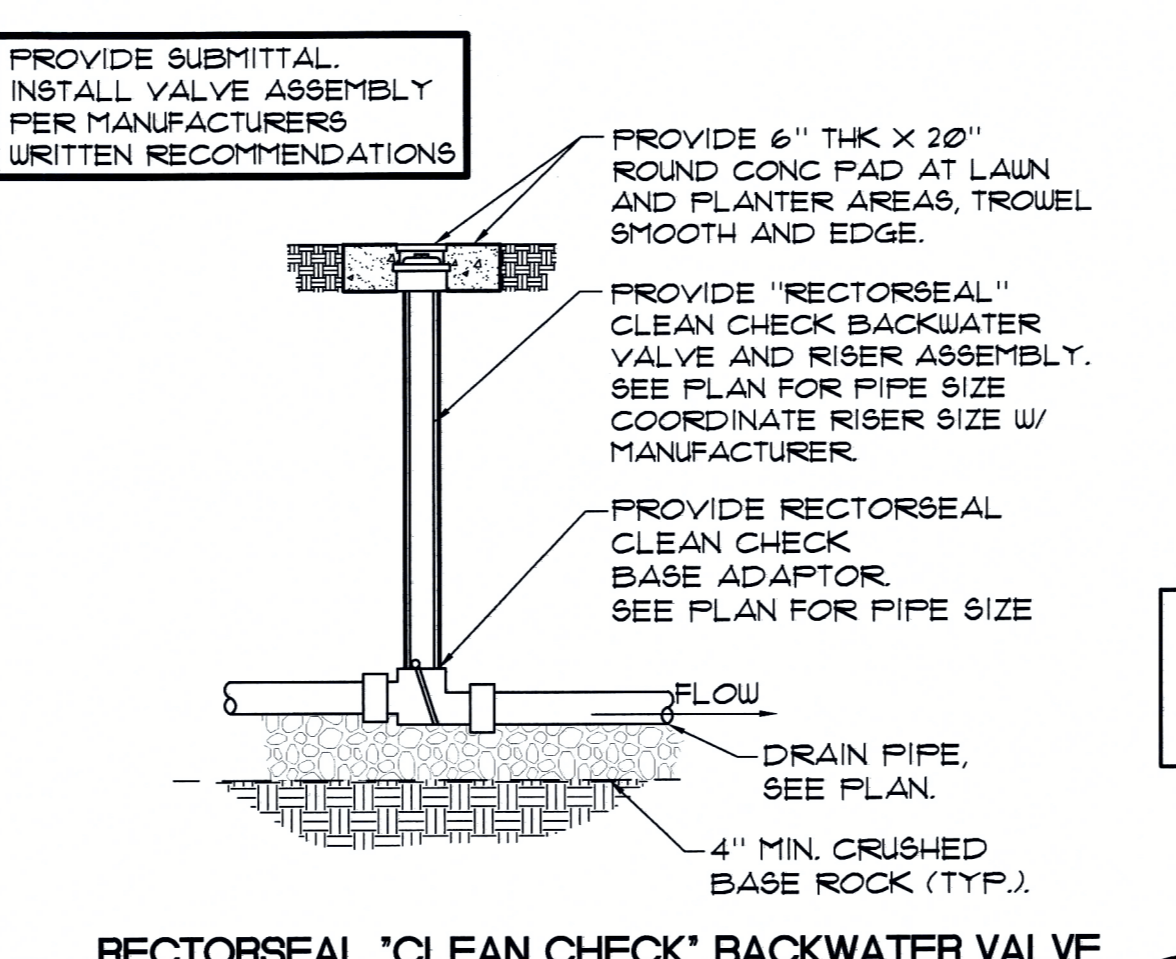
SHEET #
 SD4.3



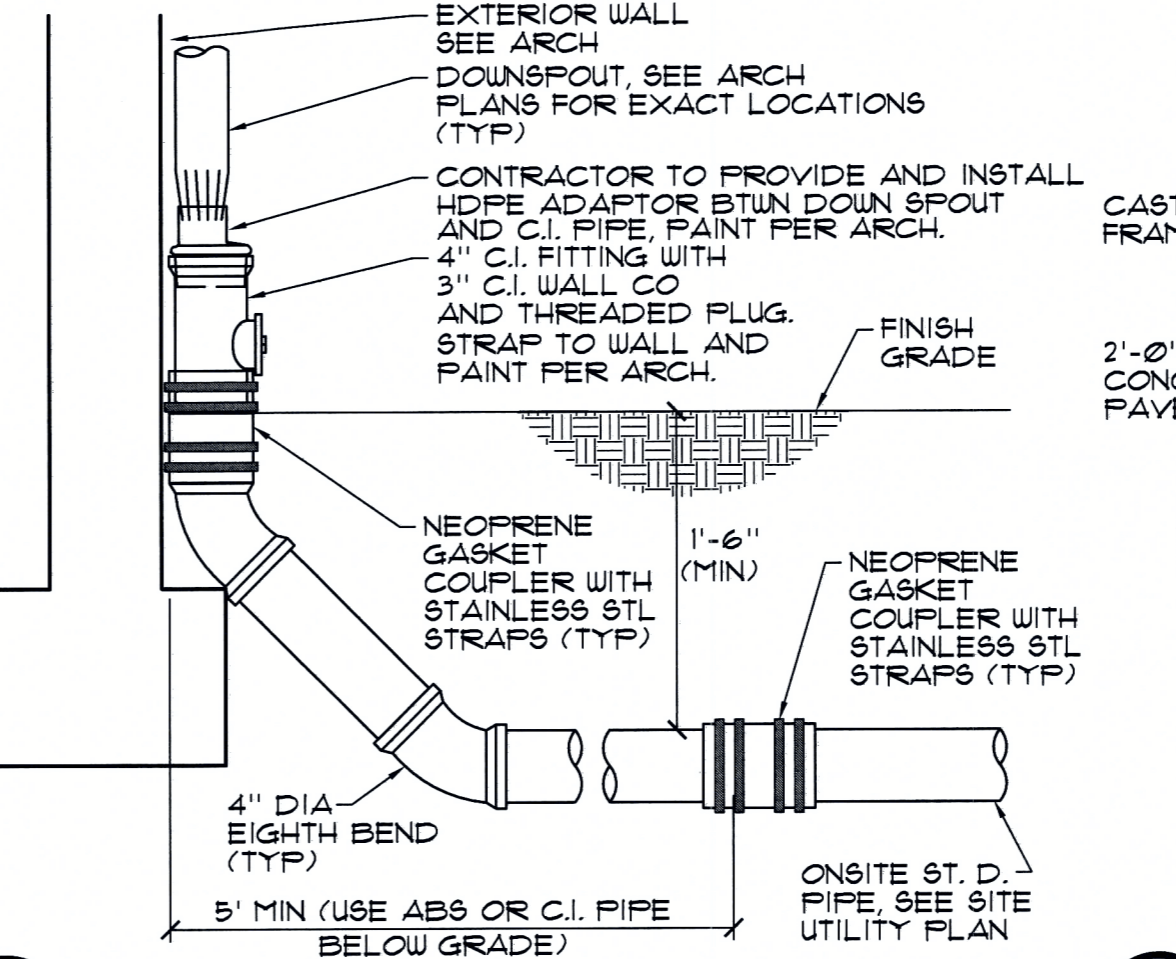
1 TYP. UTILITY TRENCH SECTION
SD4.4 1" = 1'-0" SD 4 55/TrenchSec.dwg



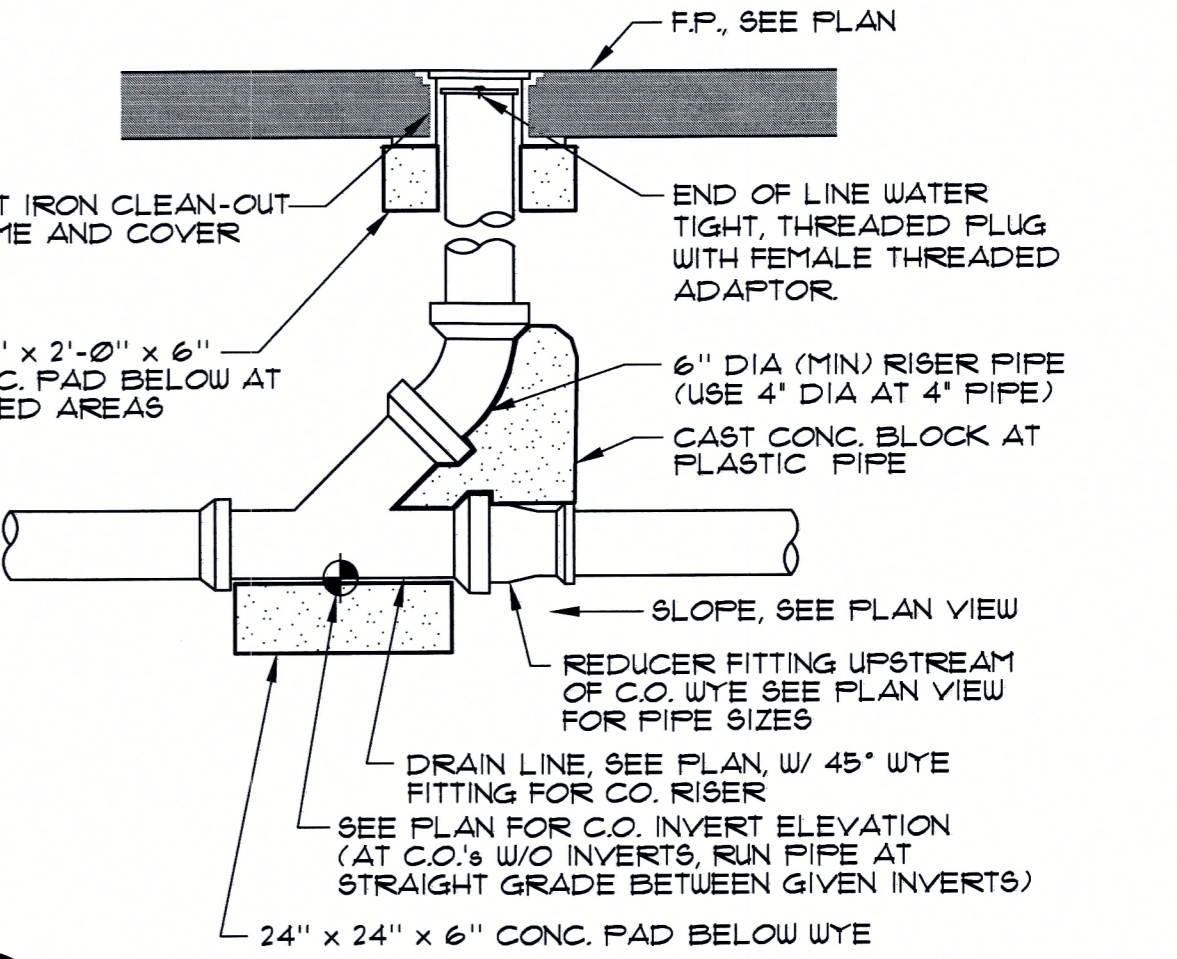
2 TYPICAL EXTERIOR FOUNDATION DRAIN
SD4.4 1" = 1'-0" SD 4 55/Foundation Drain.dwg



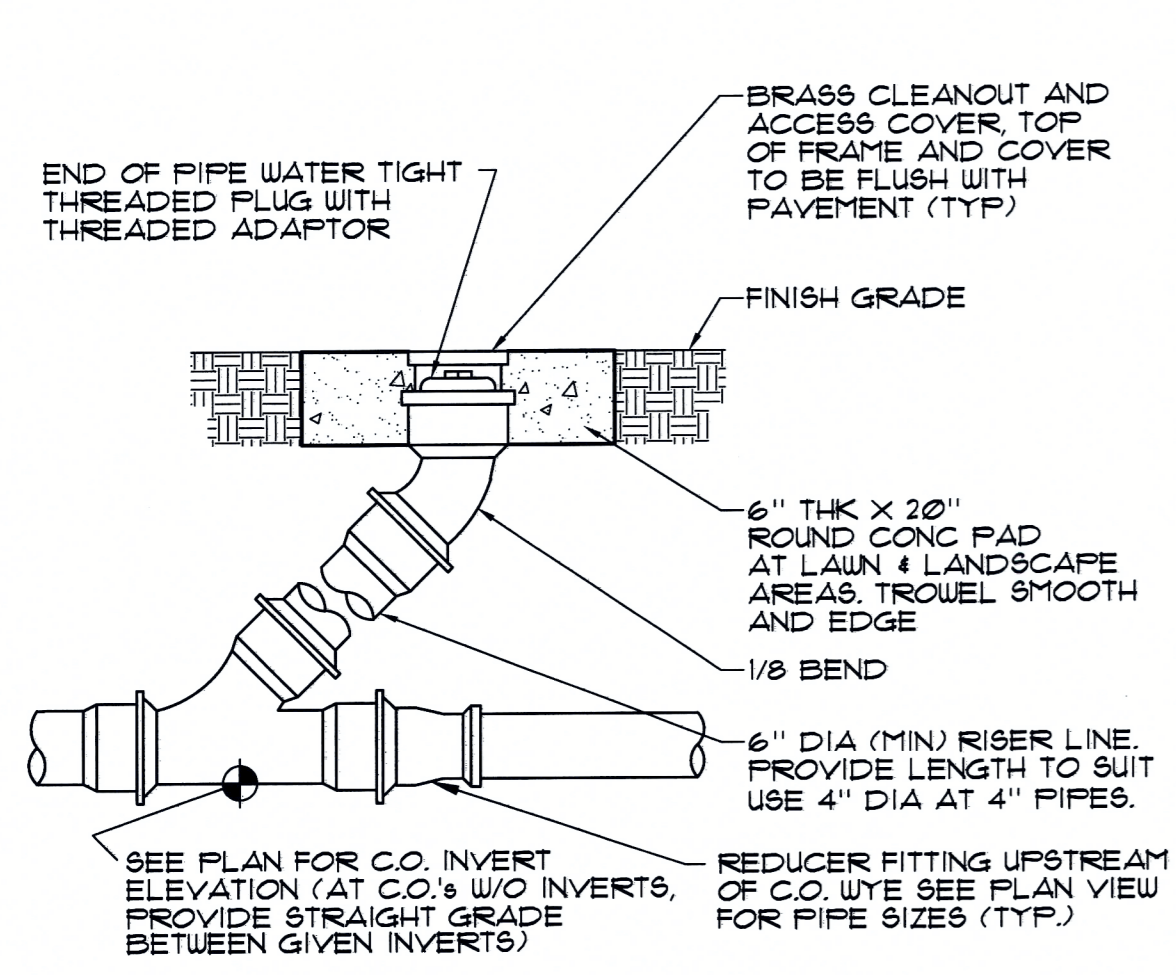
3 RECTORSEAL 'CLEAN CHECK' BACKWATER VALVE ASSEMBLY FOR FOUNDATION DRAIN (TYP)
SD4.4 1/2" = 1'-0" Backwater Valve Box.dwg



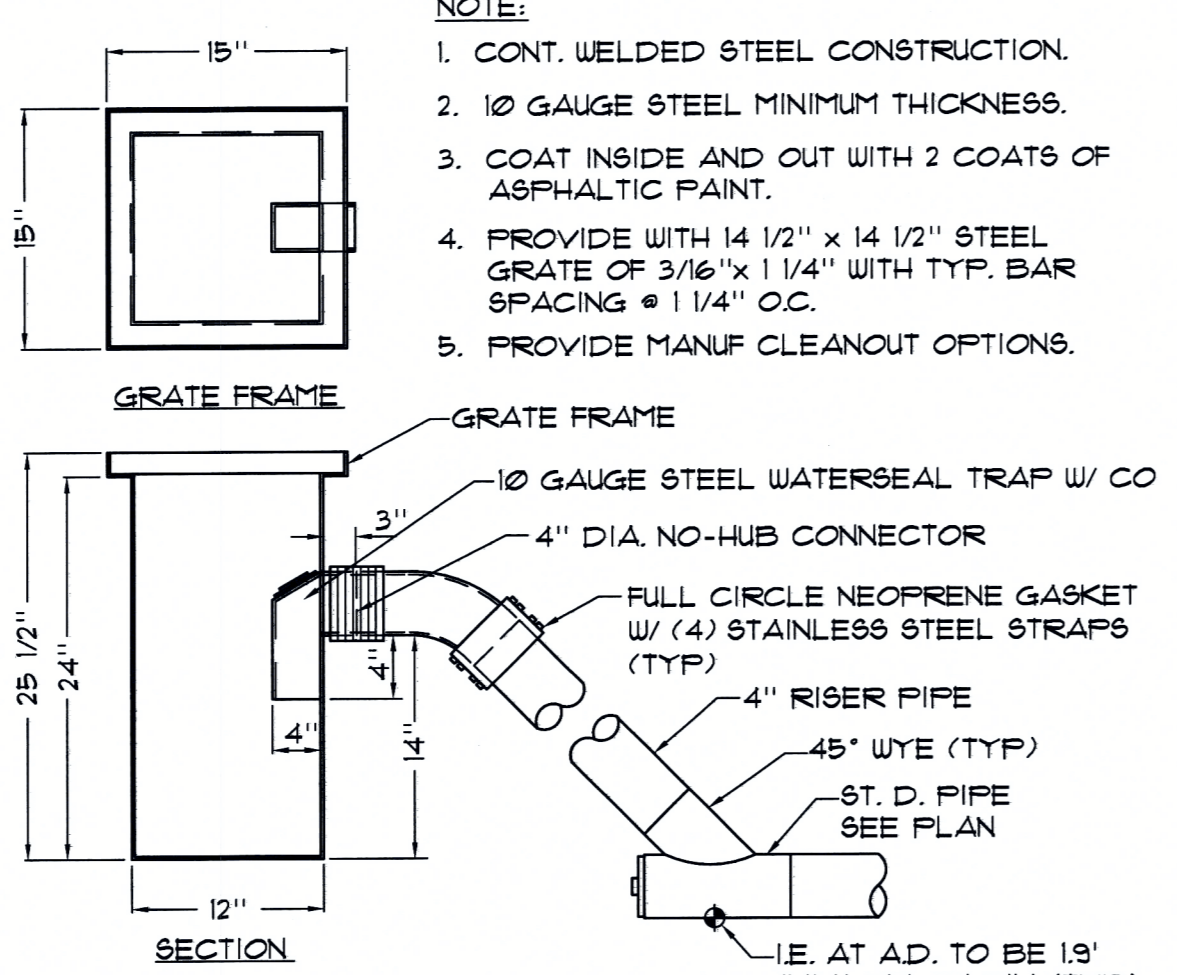
4 TYPICAL EXTERIOR DOWN SPOUT CONNECTION
SD4.4 N.T.S. SD 4 55/Downspout, Ext. Wall.dwg



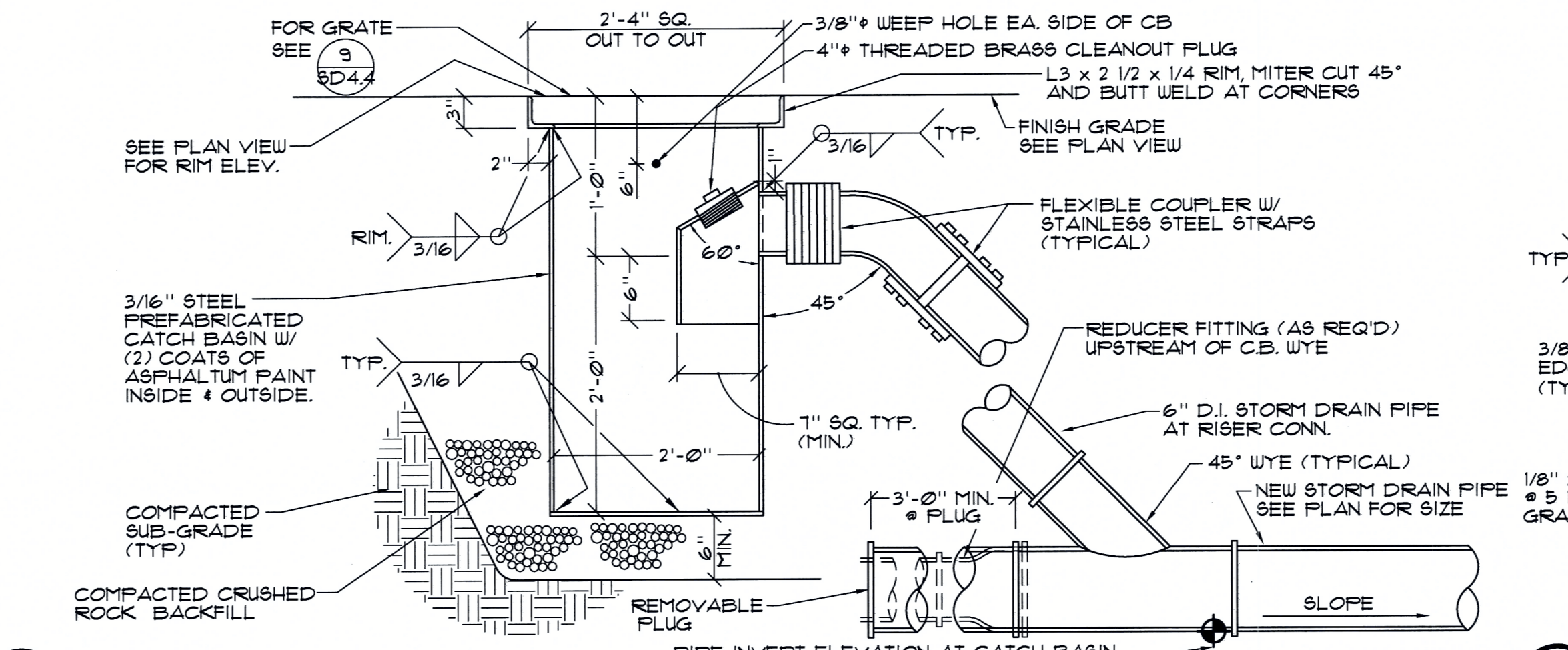
5 TYP. CLEAN OUT AT VEHICLE PAVEMENT AREAS
SD4.4 N.T.S. SD 4 55/Cleanout/vehPavmnt.dwg



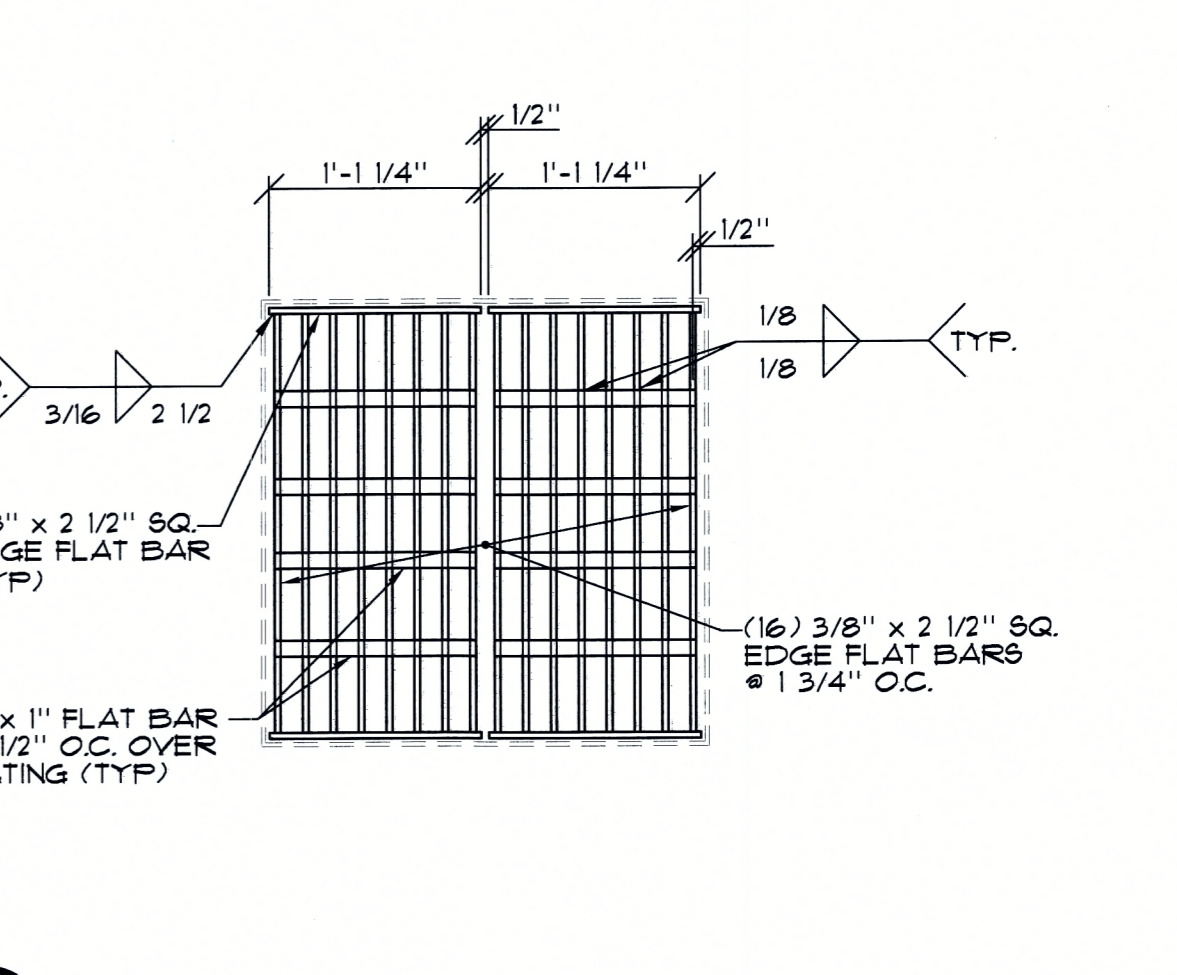
6 CLEANOUT AT WALKS, SLABS AND PLANTERS
SD4.4 1" = 1'-0" COWalkPlnters.dwg



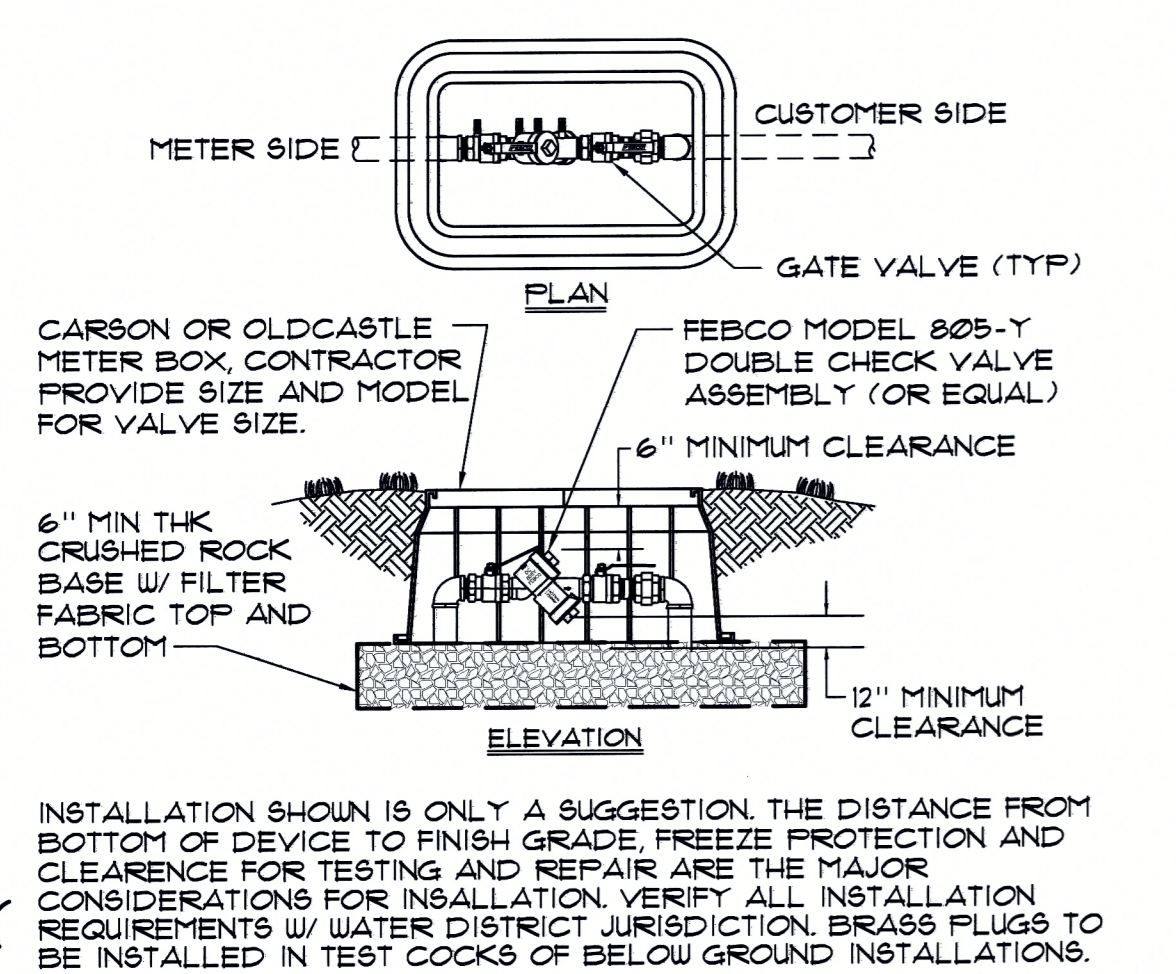
7 LANDSCAPE AREA DRAIN
SD4.4 N.T.S. SD 4 55/LA-Drain.dwg



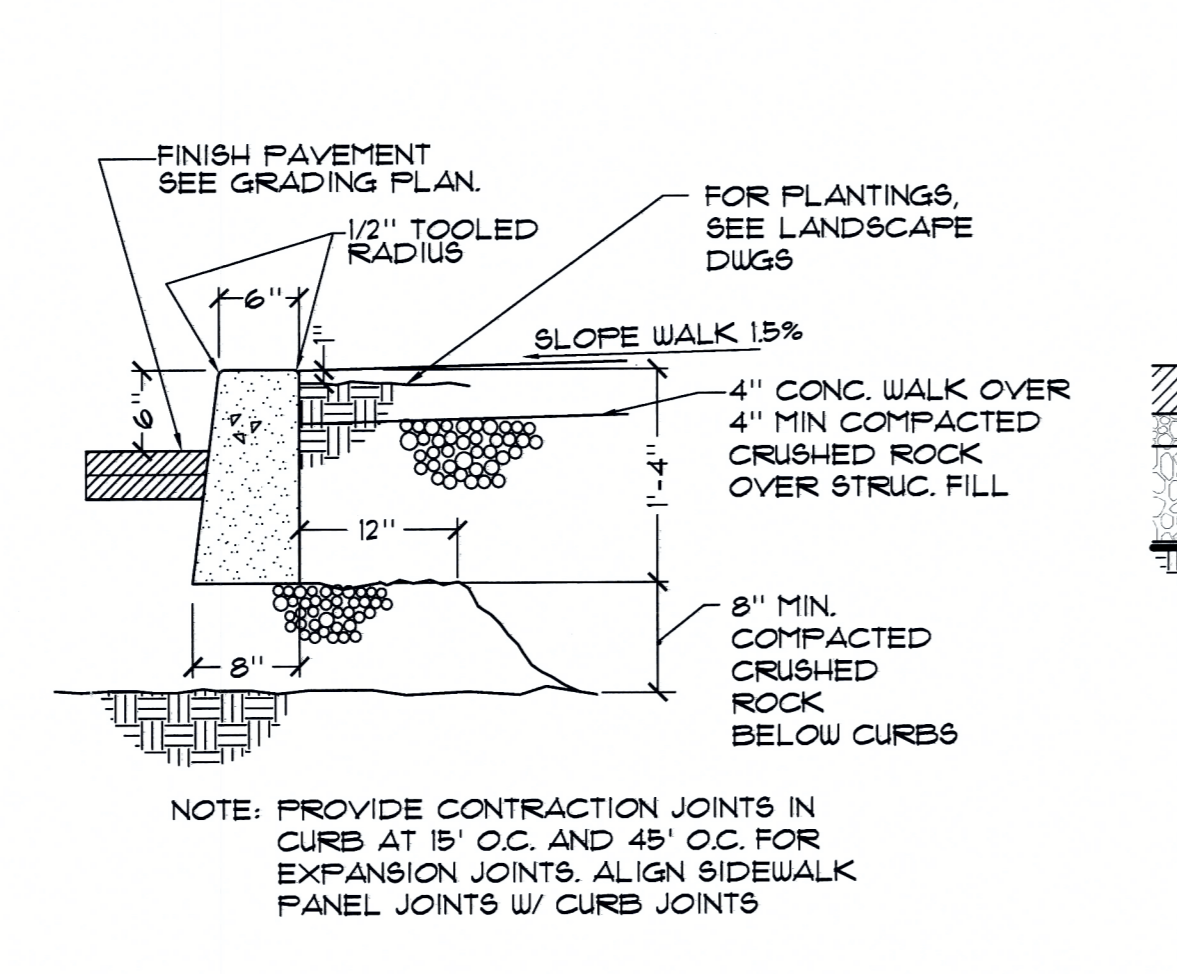
8 TYPICAL ON-SITE STEEL CATCH BASIN
SD4.4 1" = 1'-0" SD 4 55/CB-steel.dwg



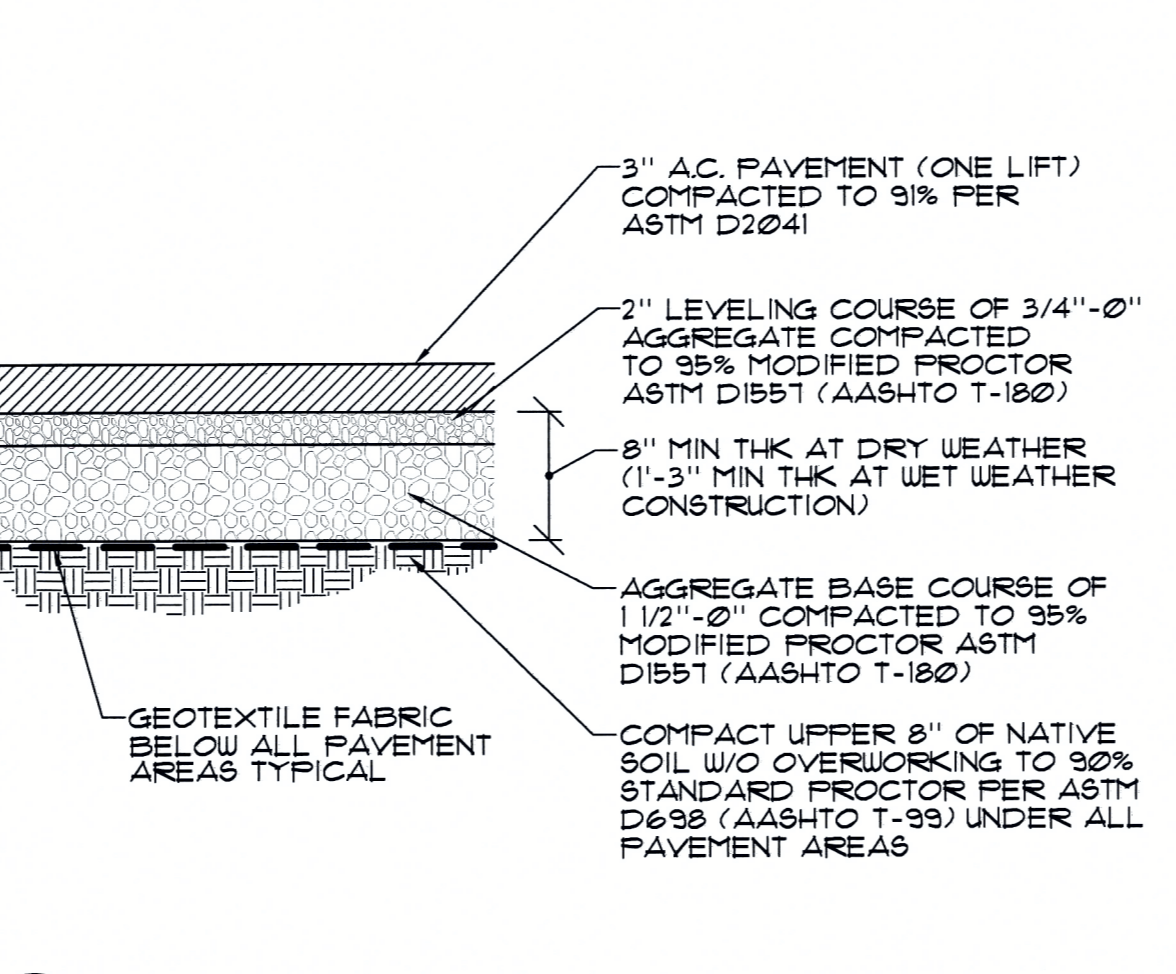
9 BICYCLE GRATE AT TYPICAL STEEL CATCH BASIN
SD4.4 1" = 1'-0" SD 4 55/CB/steel/grate.dwg



10 1 1/2\", 2\"/>



11 TYP. FULL DEPTH CONC. CURB DETAIL
SD4.4 N.T.S. CURB/Pavement/FullCurb.dwg



12 TYPICAL ASPHALTIC PAVEMENT SECTION
SD4.4 1" = 1'-0" CURB/Pavement/AsphPavSec.dwg

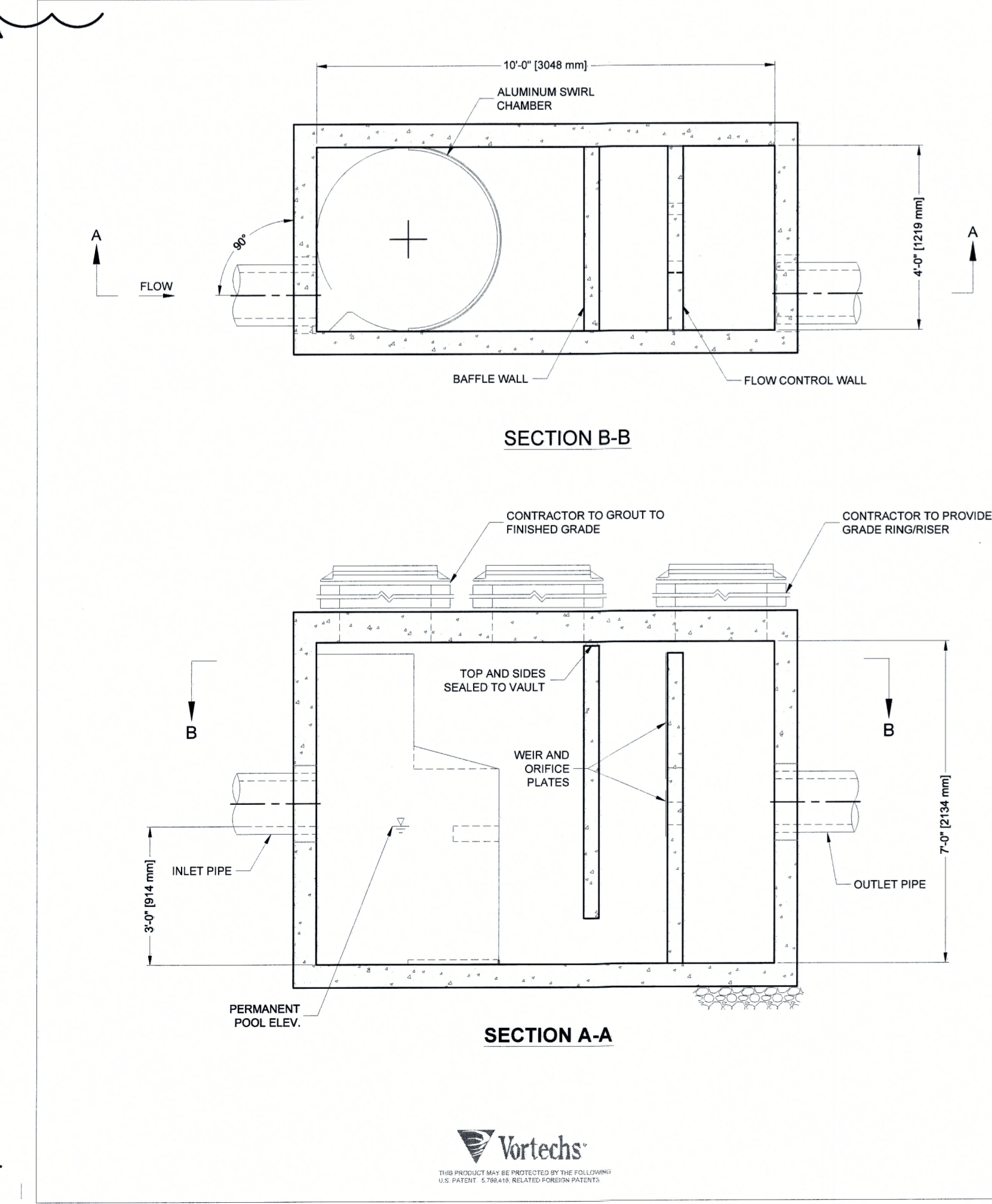
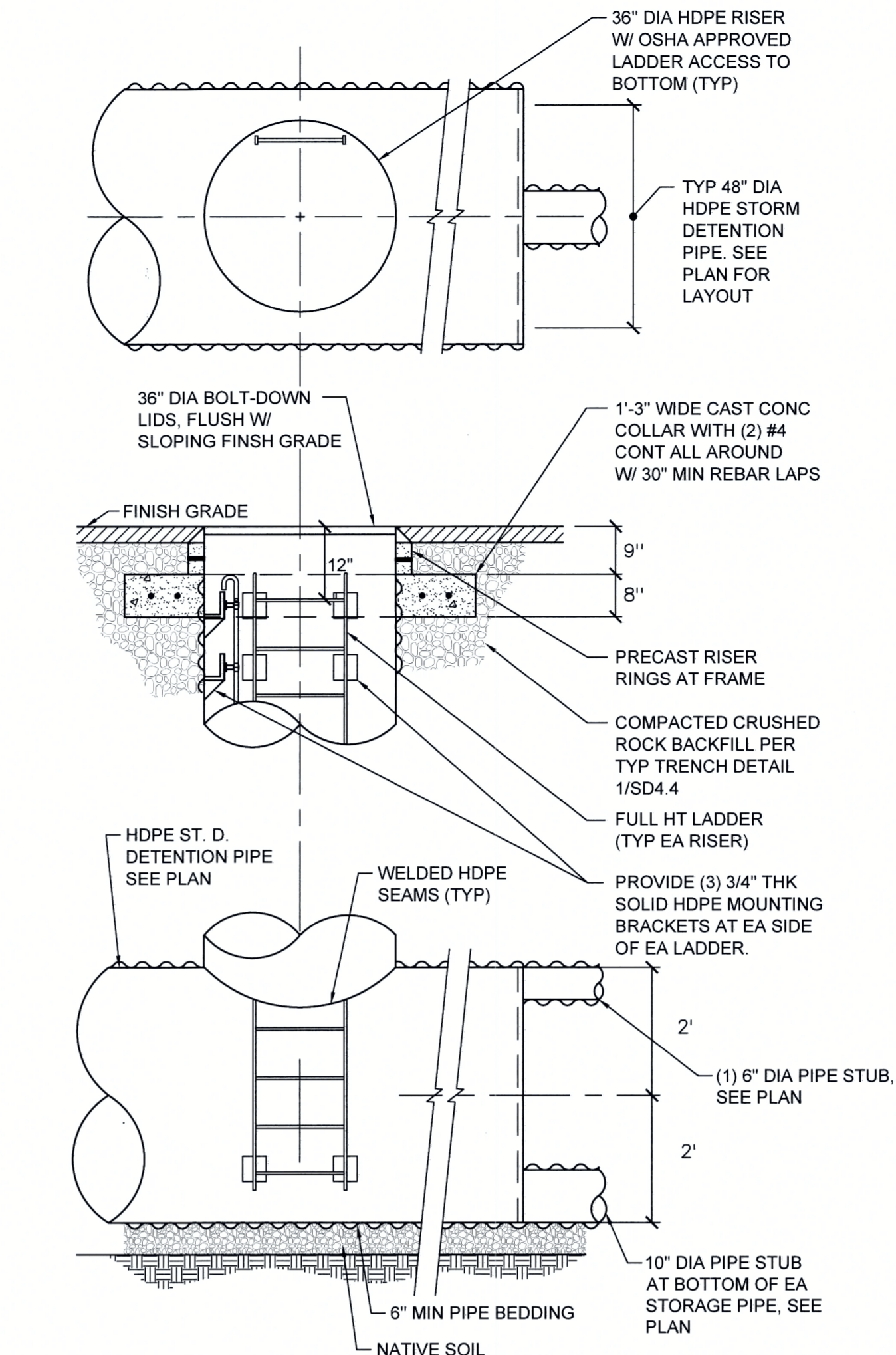
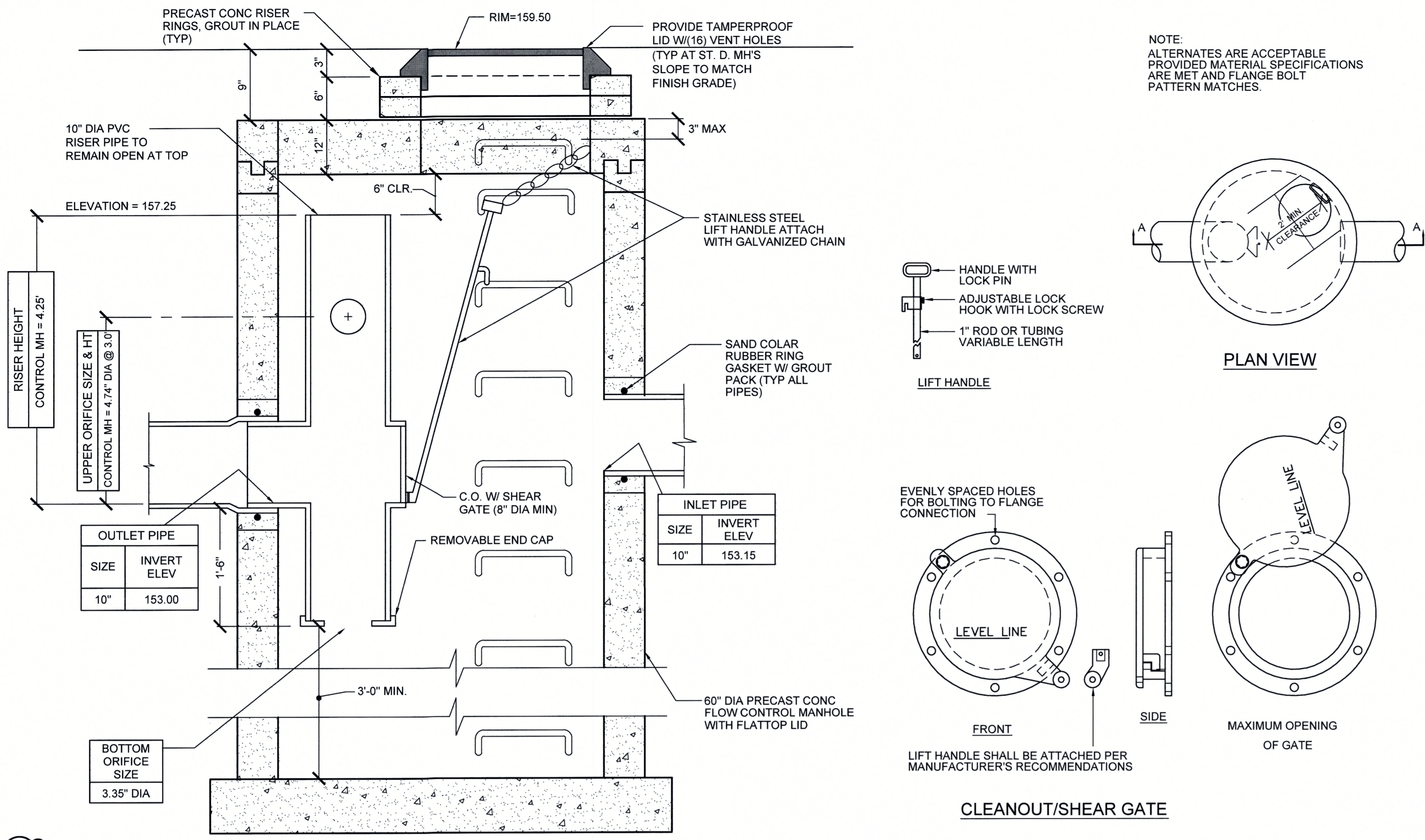
STEWART GORDON STRAUS ARCHITECT
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REGISTERED PROFESSIONAL ENGINEER
12,479
COLE G. PRESTIUS
RENEW 12/31/2016

SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER: 1335		
DRAWING DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	12 MAR 2014	SGS
PERMIT	22 AUG 2014	SGS
PLAN CHECK		
▲	08 OCT 2014	CGP
▲	21 OCT 2014	CGP
▲	06 JAN 2015	CGP
▲	23 JAN 2015	CGP
▲	28 JAN 2015	CGP
SHEET TITLE		
ONSITE CIVIL DETAILS		
SHEET #		
SD4.4		



VORTECHS 2000 DESIGN NOTES

VORTECHS 2000 RATED TREATMENT CAPACITY IS 2.8 CFS, OR PER LOCAL REGULATIONS. IF THE SITE CONDITIONS EXCEED RATED TREATMENT CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

THE STANDARD INLET/OUTLET CONFIGURATION IS SHOWN. FOR OTHER CONFIGURATION OPTIONS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.contechES.com

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID	ID		
WATER QUALITY FLOW RATE (CFS)	0.25		
PEAK FLOW RATE (CFS)	1.88		
RETURN PERIOD OF PEAK FLOW (YRS)	25		
PIPE DATA:			
INLET PIPE 1	1.5	PVC	10"
OUTLET PIPE	1.5	PVC	10"
RIM ELEVATION	155.50		
ANTI-FLOTATION BALLAST			
NOTES/SPECIAL REQUIREMENTS			
* PER ENGINEER OF RECORD			

GENERAL NOTES

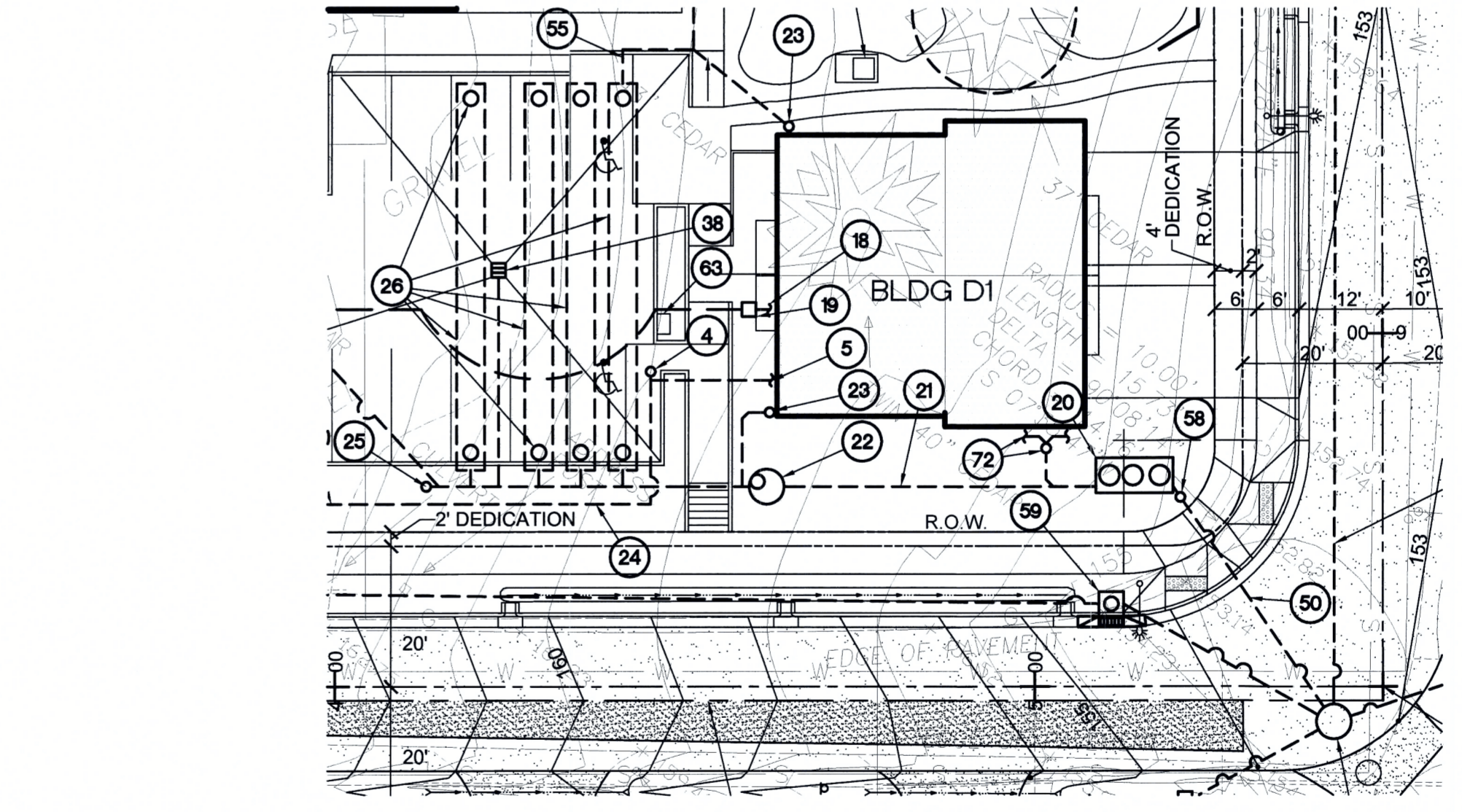
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.contechES.com
- VORTECHS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- INLET PIPE(S) MUST BE PERPENDICULAR TO THE VAULT AND AT THE CORNER TO INTRODUCE THE FLOW TANGENTIALLY TO THE SWIRL CHAMBER. DUAL INLETS NOT TO HAVE OPPOSING TANGENTIAL FLOW DIRECTIONS.
- OUTLET PIPE(S) MUST BE DOWN STREAM OF THE FLOW CONTROL BAFFLE AND MAY BE LOCATED ON THE SIDE OR END OF THE VAULT. THE FLOW CONTROL WALL MAY BE TURNED TO ACCOMMODATE OUTLET PIPE KNOCKOUTS ON THE SIDE OF THE VAULT.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTECHS STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
8025 Centre Pointe Dr., Suite 400, West Chester, OH 45389
800-338-1122 513-645-7000 513-645-7993 FAX

VORTECHS 2000 STANDARD DETAIL



KEYNOTES FOR DETAIL 3/SD4.5

MARK - DESCRIPTION	MARK - DESCRIPTION
20 - NEW 'CONTECH' VORTECHS STORM TREATMENT VAULT MODEL 2000, SEE DETAIL ON SD4.5 I.E. (10") IN = 149.40, I.E. (10") OUT = 149.30	26 - (4) ROWS OF 55 L.F. OF NEW 48" DIA HDPE ST. D. DETENTION PIPE, SEE 2/SD4.5 FOR TYP ACCESS DETAIL, BOTTOM ELEVATION = 153.30
21 - 46 L.F. OF 10" DIA PVC ST. D. PIPE AT 7.8% SLOPE	50 - SEE SHT CS.2.1 FOR 10" DIA ST. D. SERVICE
22 - 5" DIA ST. D. DETENTION MANHOLE, SEE 1/SD4.5 FOR DETAIL I.E. (10") IN = 153.15, I.E. (10") OUT = 153.00, RIM = 159.50	55 - 122 L.F. OF 6" DIA PVC ST. D. PIPE AT 1.0% SLOPE
24 - 46 L.F. OF 10" DIA PVC ST. D. PIPE AT 0.28% SLOPE	58 - C.O. ASSEMBLY AT 100 O.C. MAX SPACING, SEE 5 OR 6 ON SD4.4
25 - ST. D. C.O. ASSEMBLY, SEE 6/SD4.4, I.E. (10") = 153.30	

3 ONSITE STORM DETENTION AND TREATMENT FACILITIES
1"=20'-0"

(REFERENCE SHEET SD4.3)
ONSITE UTILITY PLAN

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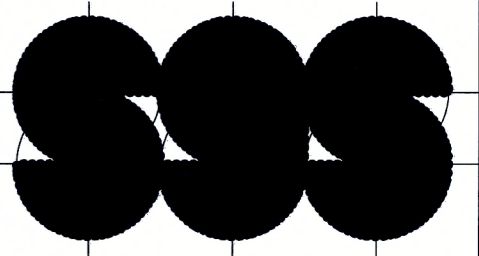
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www.wdy.com

REGISTERED PROFESSIONAL ENGINEER
12.17.18
MAY 18, 1984
COLLEGE: PRESTHUIS
RENEW 12/31/2016

SHADY HOLLOW VILLAGE
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER: 1335

DRAWING	DATE	BY
DESIGN	20 NOV 2013	SGS
	11 FEB 2014	SGS
DES REV	12 MAR 2014	SGS
PERMIT	22 AUG 2014	SGS
PLAN CHECK		
	08 OCT 2014	CGP
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SHEET TITLE		
ONSITE CIVIL DETAILS		
SHEET #		
SD4.5		



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SHADY HOLLOW VILLAGE
PHASE ONE SITE DEVELOPMENT + BUILDINGS
SHADY HOLLOW AND WILLAMETTE DRIVE
WEST LINN, OREGON

PROJECT NUMBER:	1335
DRAWING DATE BY	DESIGN
20 NOV 2013	SGS
NBRHD MTG	
11 FEB 2014	SGS
DES REV	
12 MAR 2014	SGS
21 APR 2014	SGS
14 MAY 2014	SGS
PERMIT	
22 AUG 2014	SGS
CONSTRUCTION	
8 MAR 2015	SGS

SHEET TITLE
PROPOSED
LANDSCAPE
SHEET #
SD5

PLANT LIST

TREES (see A1 for existing trees)

- TRACHYCARPUS FORTUNEI
Windmill Palm
- CUPRESSUS SEMPERVIRANS
Italian Cypress
- TAXUS BREVIFOLIA
Oregon Yew
- ALRBTUS UNEDO
Strawberry Tree
- QUERCUS PHILLYREOIDES
Ublame Oak
- CARPINUS BETULUS "FASTIGIATA"
Pyramidal European Hornbeam

SHRUBS AND ORNAMENTAL GRASSES

- GAULTHERIA SHALON
Salal
- MAHONIA AQUAFOLIUM
Oregon Grape
- MAHONIA AQUAFOLIUM "COMPACTA"
Dwarf Oregon Grape
- NANDIAN DOMESTICA
Heavenly Bamboo
- ANDROPOGON GERARDII
Big Bluestem Turkeyfoot Grass
- ARRHENATHERUM CLATIUS
BULBOSUM "VARIEGATUM"
Bulbous Oat Grass
- CORTADERIA SELLOANA
Pampas Grass
- PENNISETUM ALOPECUROIDES
Fountain Grass
- RHODODENDRON
Varieties to be selected
- AZALEA
Varieties to be selected

GROUND COVERS

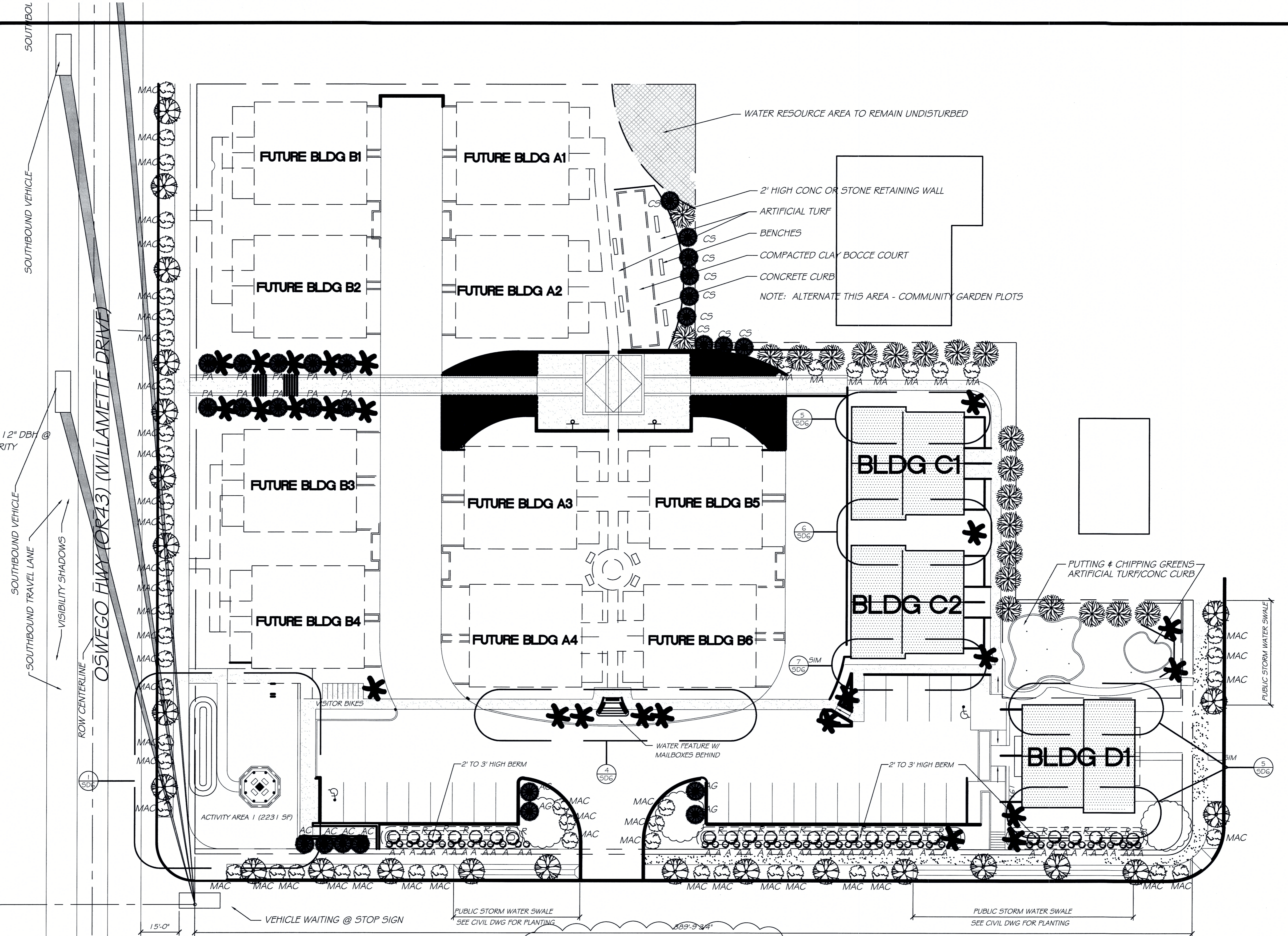
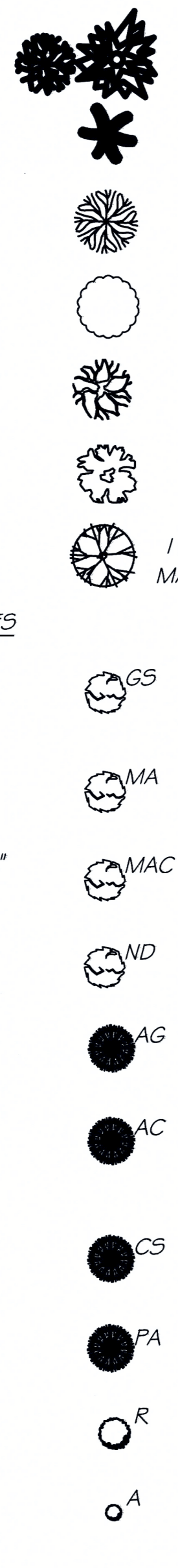
- ASARUM CAUDATUM
Wild Ginger
- COTONEASTER DAMERII
Bearberry Cotoneaster
- ARCTOSTAPHYLOS UVA URSI
Kinnickinnick

NOTES

1. NEW TREES TO BE 2" CAL DBH AND/OR 6'-0" MIN HEIGHT
2. NEW SHRUBS AND GRASSES TO BE 1 GAL CONTAINER MIN
3. NEW GROUND COVERS TO BE 4" POT @ 18" OC TRIANGULAR
4. TYPICAL GROUND COVER TO BE KINNICKINNICK UNLESS NOTED
5. PROVIDE VOLCANIC & RIVER ROCK MULCH IN ALL PLANTER BEDS

CONCRETE PAVING

- SALT OR BROOM, SCORED
- WITH COBBLES/ROCKS
(EMERGENCY ACCESS ONLY)



1 LANDSCAPE PLAN
1" = 20'-0"

2 PERIMETER FENCE & ENTRY GATES
1" = 20'-0"

