

KEYED NOTES:

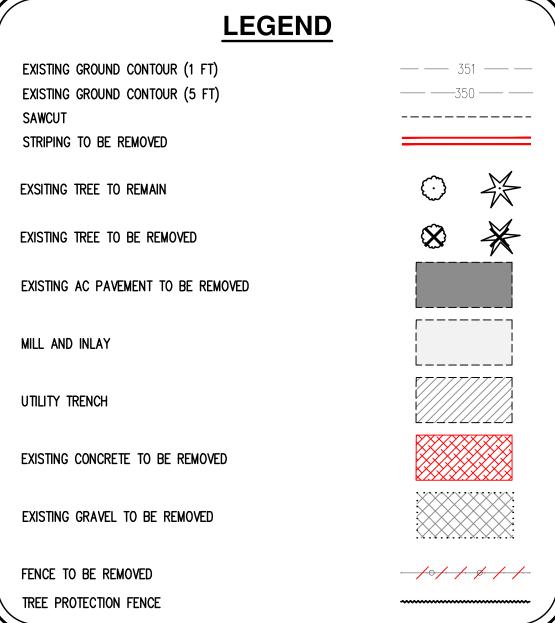
- 1. REMOVE EXISTING AC PAVEMENT.
- 2. SAWCUT EXISTING AC PAVEMENT/CONCRETE (TYP).
- 3. REMOVE EXISTING SIGN, SIGN POST, AND FOOTING. SALVAGE EXISTING SIGN.
- 4. REMOVE EXISTING STRIPING.
- 5. REMOVE EXISTING CURB.
- 6. REMOVE EXISTING MAILBOX POST.

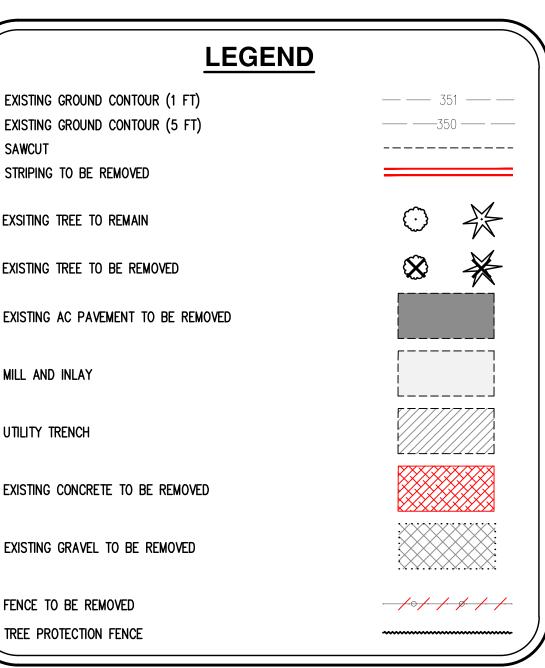
SALVAGE EXISTING MAILBOX FOR RELOCATION. COORDINATE WITH USPS TO MAINTAIN MAIL SERVICE THROUGHOUT CONSTRUCTION.

- 7A. REMOVE EXISTING FENCE.
- 7B. REMOVE AND SALVAGE EXISTING FENCE.
- 8. REMOVE EXISTING CONCRETE SIDEWALK/DRIVEWAY.
- 9. REMOVE EXISTING CINDER BLOCK WALL.
- 10. REMOVE EXISTING TREE.
- 11. REMOVE AC PAVEMENT FOR UTILITY TRENCH RESURFACING.
- 12. REMOVE EXISTING GRAVEL.
- 13. MILL AND INLAY.
- 14. MILL EXISTING SPEED HUMP TO CREATE A SMOOTH ROAD GRADE.
- 15. RELOCATE EXISTING UTILITY POLE. BY OTHERS.

GENERAL NOTES:

- 1. CONTRACTOR TO COORDINATE THE REMOVAL OF ALL NECESSARY PRIVATE UTILITIES WITH THE APPROPRIATE UTILITY PROVIDERS.
- CONTRACTOR TO PROTECT ALL CURB, SIDEWALK, POLES, SIGNS AND ALL OTHER INFRASTRUCTURE NOT CALLED OUT FOR REMOVAL.
- 3. CONTRACTOR TO ABANDON (IF DISCOVERED) ANY EXISTING WELLS, SEPTIC TANKS, AND DRAIN FIELDS FOUND DURING CONSTRUCTION PER APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 4. CONTRACTOR TO COORDINATE ALL STREET WORK WITH PROPERTY OWNERS AND PROJECT ENGINEER/INSPECTOR.
- 5. SEE UTILITY PLANS FOR ALL STORM WATER, SANITARY SEWER,
- AND WATER DEMOLITION INFORMATION.
- 6. ASPHALT, CONCRETE, CURB, ETC. BEING DEMOLISHED NEAR EXISTING TREES SHOULD BE REMOVED BY STRIPPING MATERIAL TO BARE SOIL, BEING CAREFUL NOT TO DAMAGE TREE ROOTS. EXCAVATION BEYOND STRIPPING ASPHALT, CONCRETE, BASE ROCK, ETC. SHOULD NOT OCCUR. COMPACTION, EXCAVATION, AND EQUIPMENT TRACK WALKING SHOULD BE LIMITED AND CONFINED TO THE LIMITS OF THE SIDEWALK. EQUIPMENT TRACK WALKING SHOULD BE AVOIDED ON PORTIONS OF THE TREE PROTECTION AREA WHERE ASPHALT, CONCRETE, ETC. HAS BEEN REMOVED. IF CONSTRUCTION ACCESS IS DESIRED IN AREAS WHERE ASPHALT, CONCRETE, ETC. HAS BEEN REMOVED, THEN STEEL PLATES, MULCH, OR OTHER MATERIAL AS APPROVED BY THE PROJECT ENGINEER SHOULD BE PLACED SO AS NOT TO CAUSE EXCESSIVE SOIL COMPACTION.
- 7. CONTRACTOR TO CONTACT TRIMET AT FOC@TRIMET.ORG A MINIMUM OF 5 DAYS PRIOR TO CLOSURE OF BUS STOP.







OREGON

STREE

WASHINGTON

VEMENTS

AREA IMPRO

MILWAUKIE CLACKAMAS COLINTY

SHEET

JOB NUMBER

RENEWAL DATE: 12/31/25

DATE: 06/07/2024

STREE

WASHINGTON

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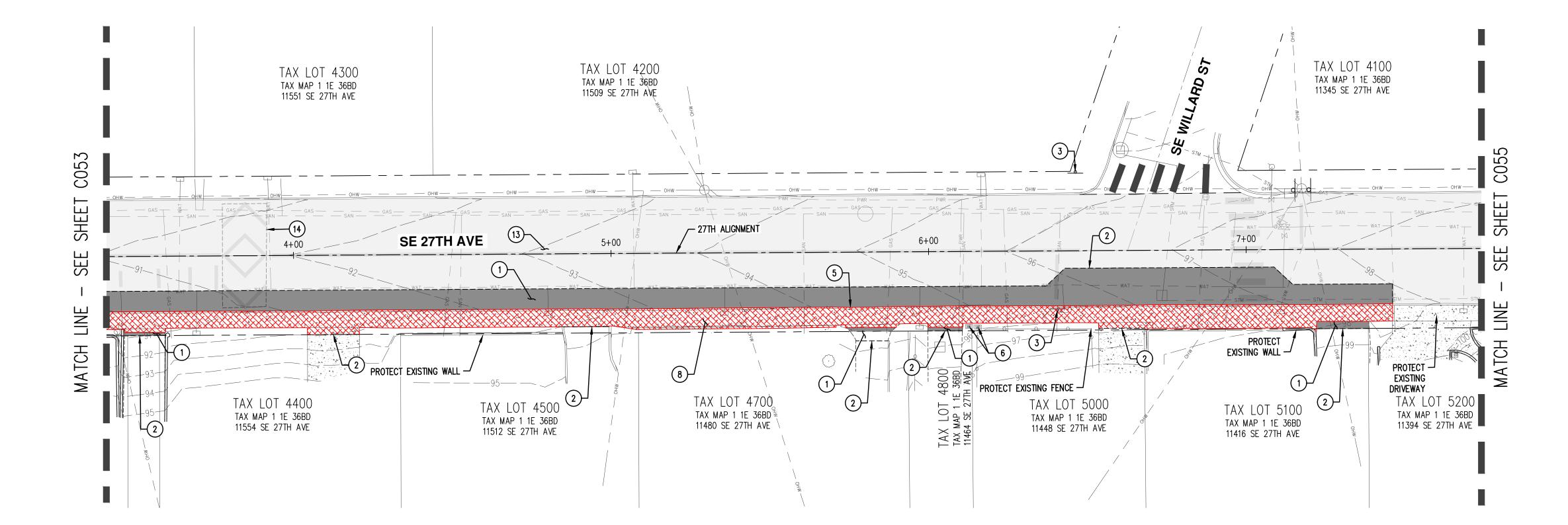
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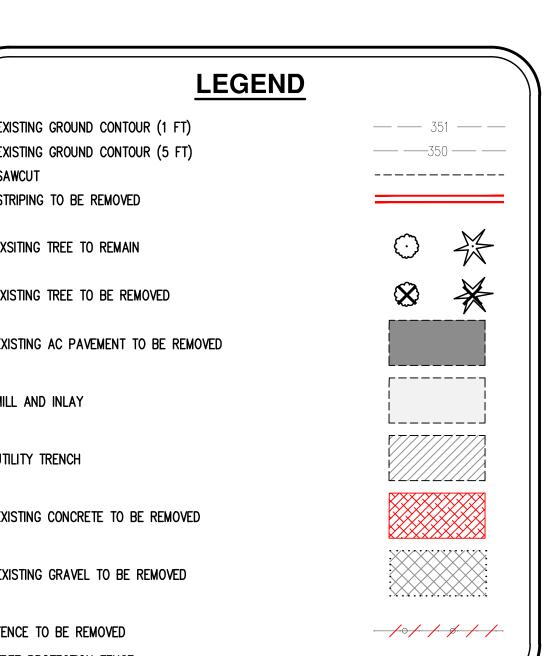
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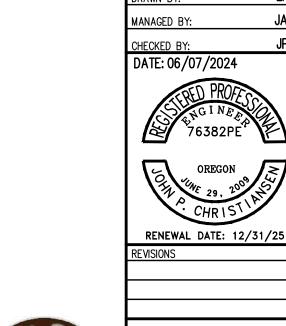
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LEGEND EXISTING GROUND CONTOUR (1 FT) **— — — — — — — —** ____350 ___ __ EXISTING GROUND CONTOUR (5 FT) -----STRIPING TO BE REMOVED EXSITING TREE TO REMAIN EXISTING TREE TO BE REMOVED EXISTING AC PAVEMENT TO BE REMOVED MILL AND INLAY UTILITY TRENCH EXISTING CONCRETE TO BE REMOVED EXISTING GRAVEL TO BE REMOVED FENCE TO BE REMOVED TREE PROTECTION FENCE







JOB NUMBER SHEET

STREE

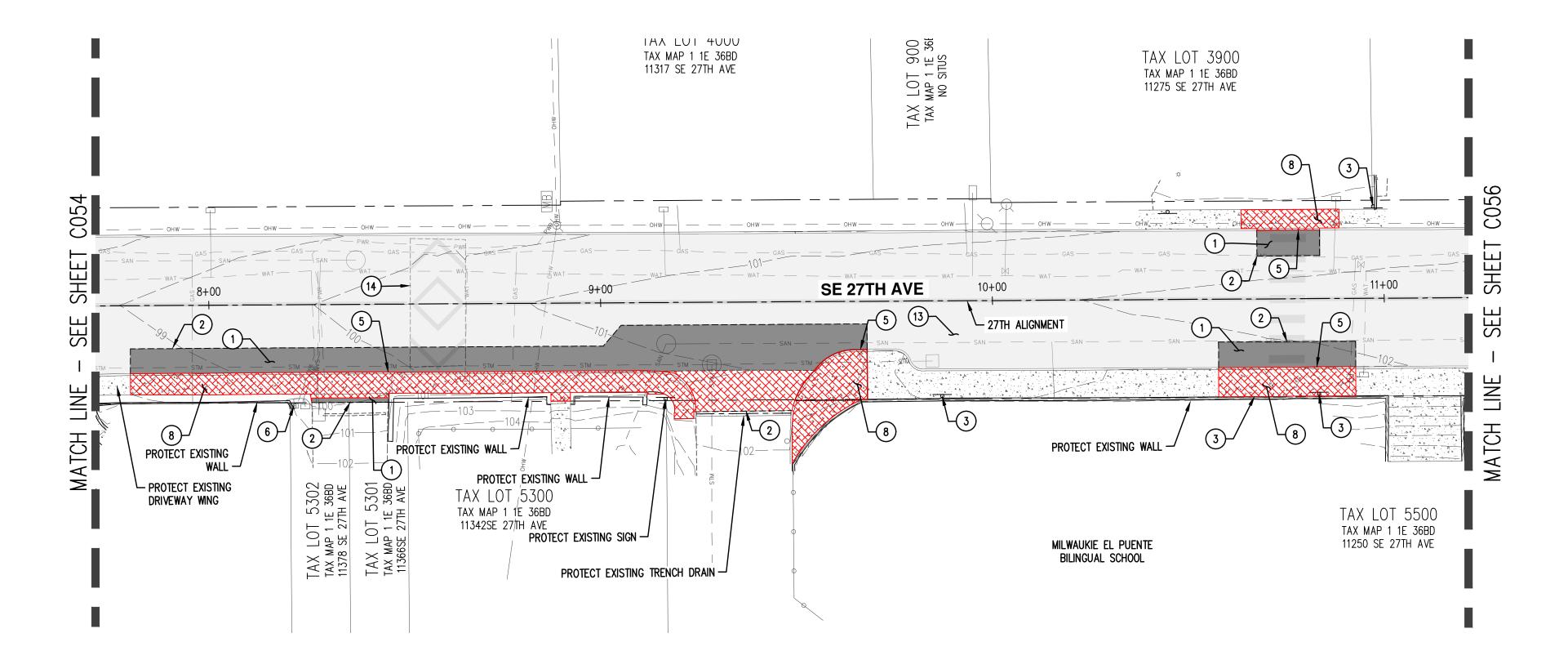
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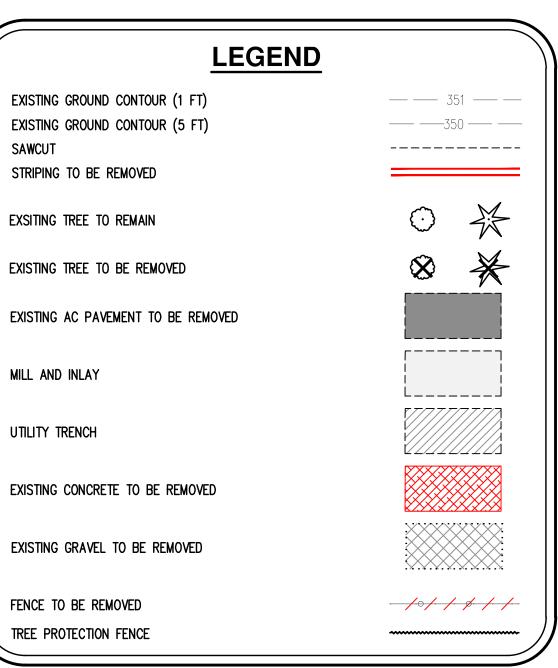
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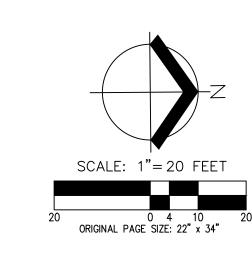
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EXISTING GROUND CONTOUR (1 FT) EXISTING GROUND CONTOUR (5 FT) SAWCUT	351 350
STRIPING TO BE REMOVED EXSITING TREE TO REMAIN	○ ※
EXISTING TREE TO BE REMOVED	⊗ ×
EXISTING AC PAVEMENT TO BE REMOVED	[
MILL AND INLAY UTILITY TRENCH	
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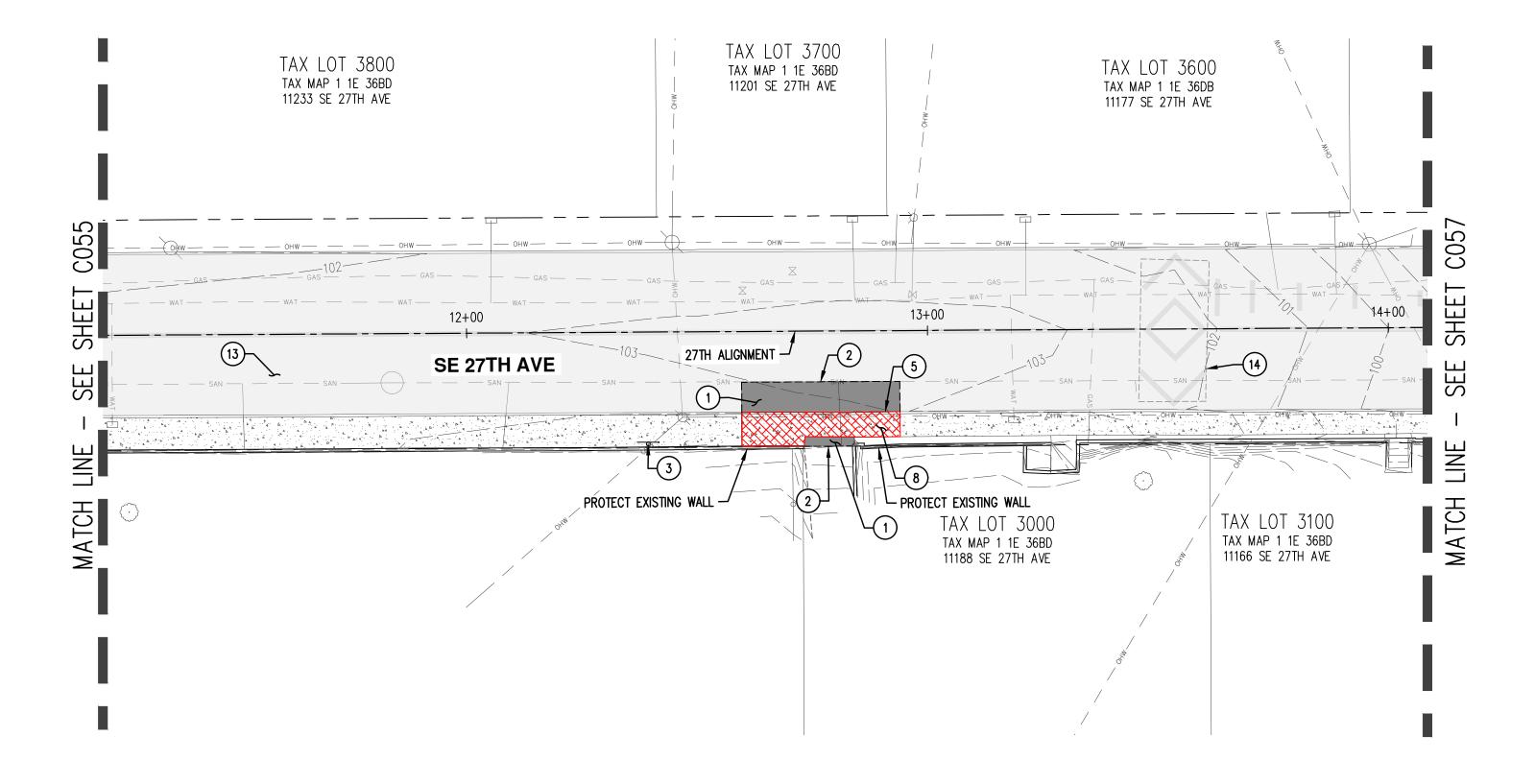




RENEWAL DATE: 12/31/25 JOB NUMBER SHEET

DATE: 06/07/2024





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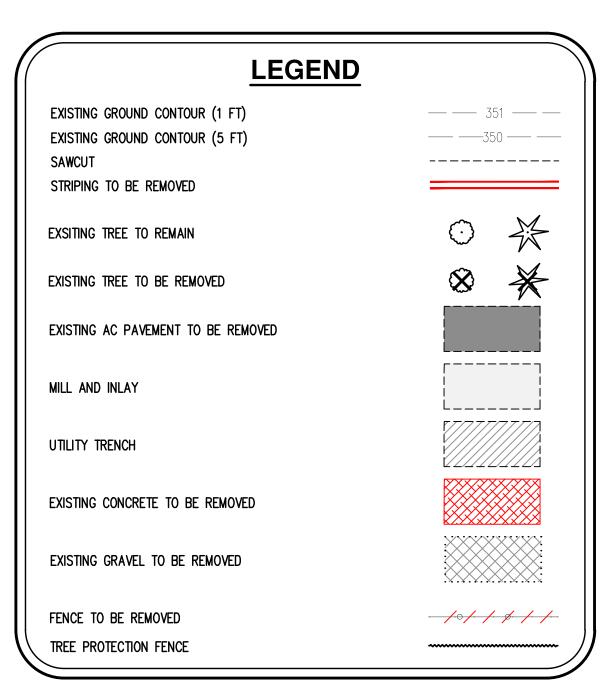
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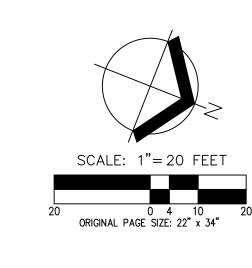
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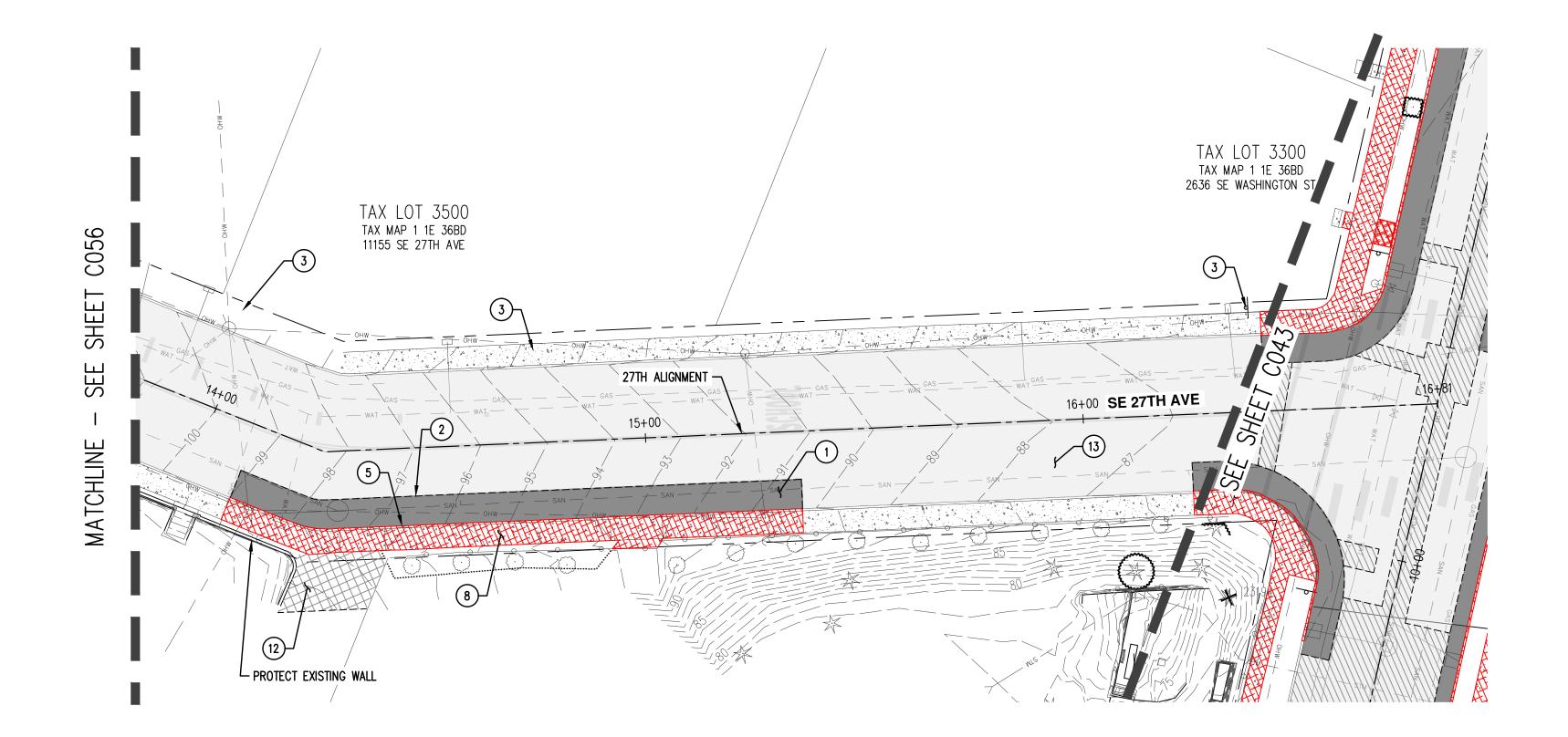
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JOB NUMBER 8970 SHEET **C056**





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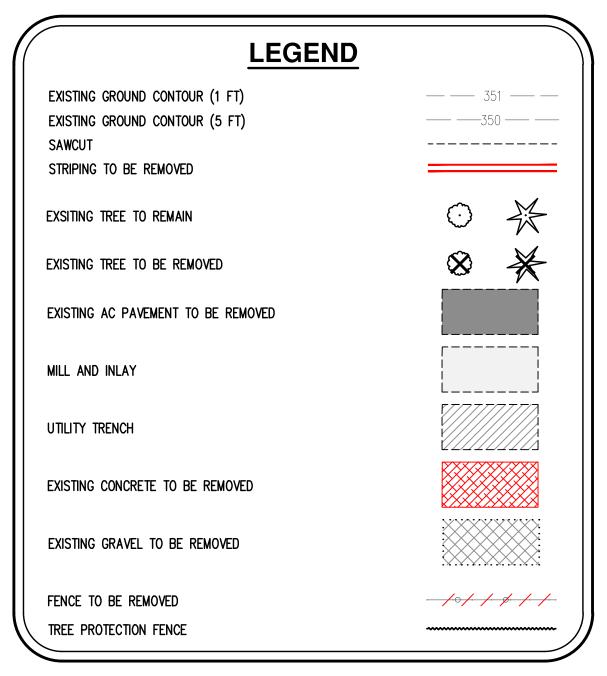
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DEMOLITION PLAN

DESIGNED BY:

DRAWN BY:

LAH

MANAGED BY:

CHECKED BY:

DATE: 06/07/2024

PROFES

OREGON

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OR



JOB NUMBER 8970
SHEET

SHEET **C057**

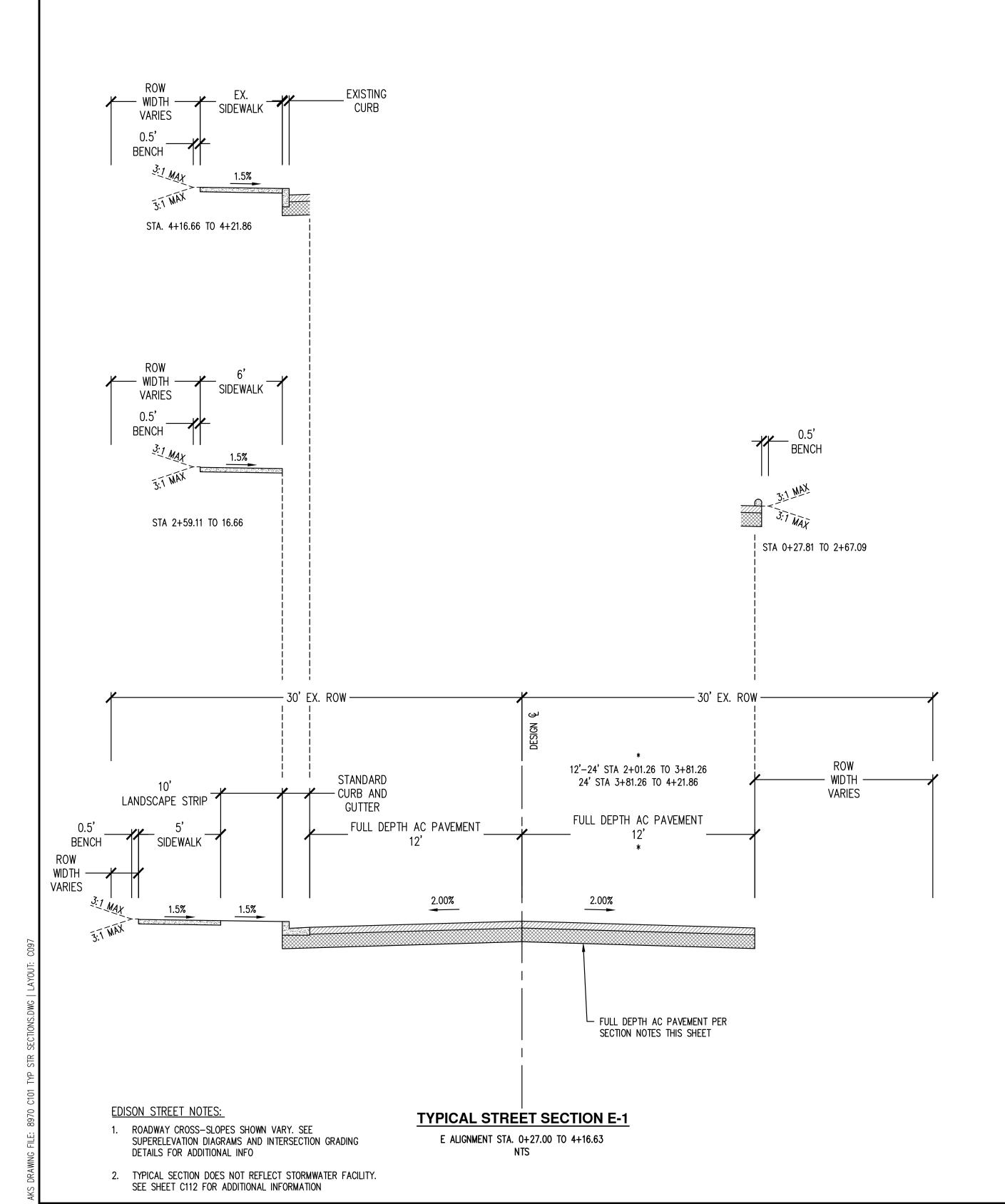
- SEE ROADWAY PLANS FOR EXTENTS OF PAVEMENT IMPROVEMENTS.
 SAWCUT LINE TO BE PLACED ALONG LANE LINE OR MID—LANE LINE UNLESS OTHERWISE SHOWN/NOTED ON PLANS.
- DRIVEWAYS, TURNOUTS, CURB RAMPS, AND INTERSECTIONS NOT REFLECTED IN TYPICAL CROSS SECTIONS.
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 CONTRACTOR TO FIELD ADJUST SIDEWALK TO PREVENT TREE ROOT CUTS AND TO PROTECT TREES WITH 5% MAX RUNNING SLOPE.

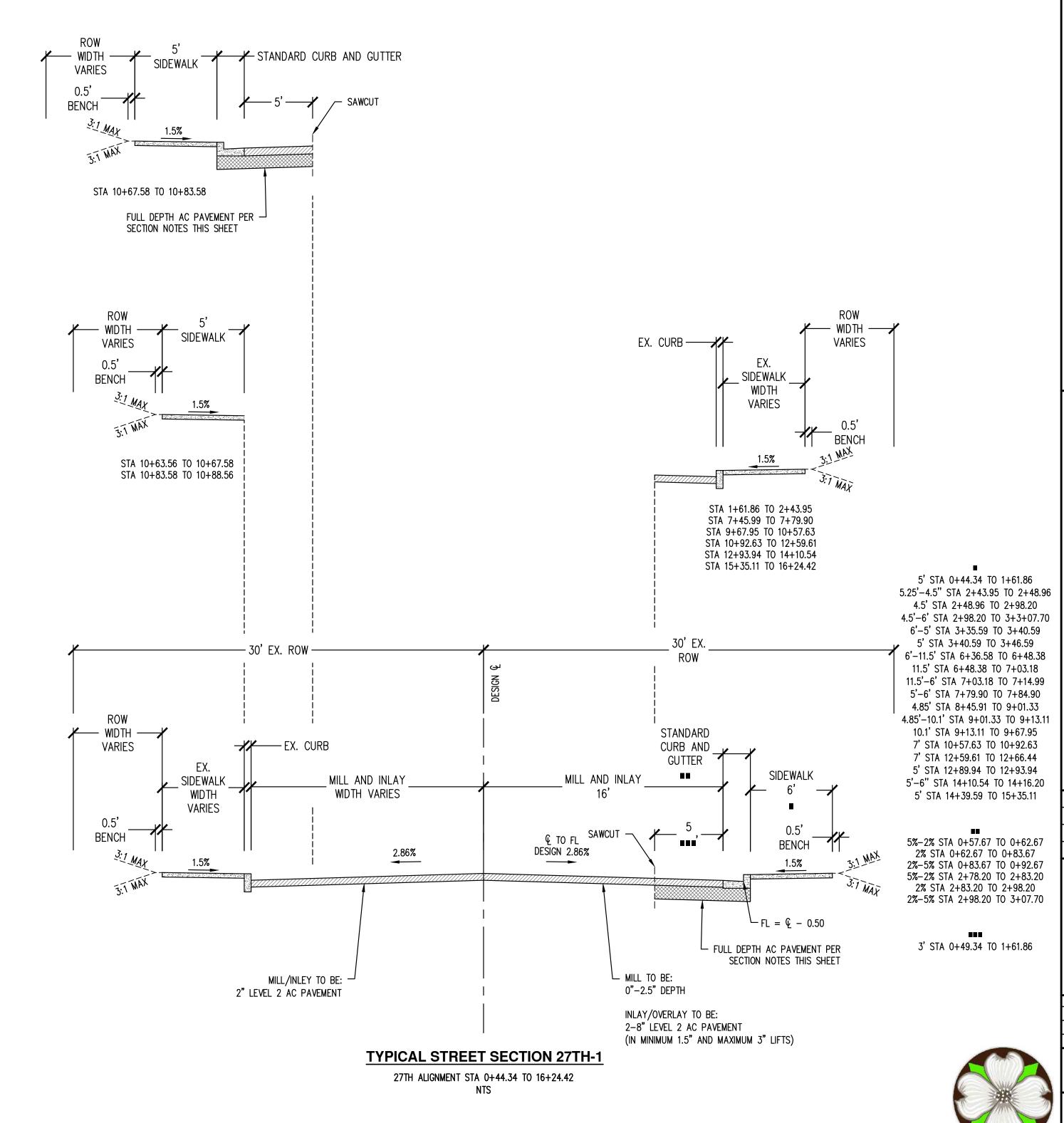
FULL DEPTH AC PAVEMENT SECTIONS:

- 1. SE WASHINGTON ST./SE MADISON ST./SE 32ND ST./SE 35TH ST./SE 27TH ST.
- 3" LEVEL II AC PAVEMENT (WEARING COURSE)
- 2" LEVEL II AC PAVEMENT (BASE COURSE)8" CRUSHED AGGREGATE ROCK

2. SE EDISON S

- 3" LEVEL II AC PAVEMENT (WEARING COURSE)
- 8" CRUSHED AGGREGATE ROCK







ANS ENGINEERING & LORI 12965 SW HERMAN RD, S TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM

VEMENTS

AREA IMF MILWAUKIE

YPICAL STREET SECTIONS

DESIGNED BY:

DRAWN BY:

MANAGED BY:

CHECKED BY:

DATE: 06/07/2024

MANAGED BY: JA

CHECKED BY: J

DATE: 06/07/2024

PRO PROFES

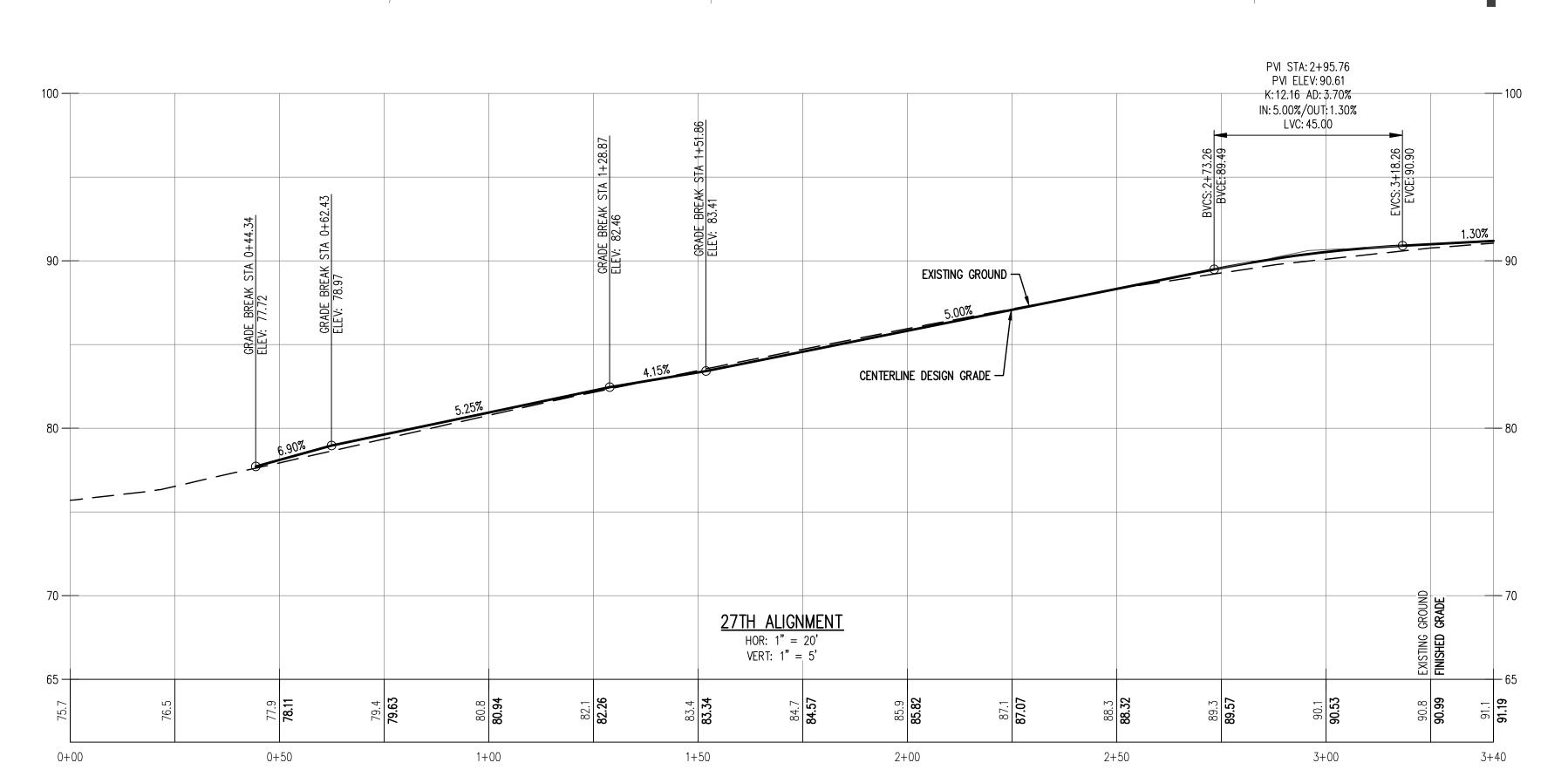
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OREGON
CHRISTINE

RENEWAL DATE: 12/31/25
REVISIONS

JOB NUMBER 8970

SHEET



GENERAL NOTES:

- 1. SEE TYPICAL STREET SECTIONS FOR PAVEMENTS DEPTH, SIDEWALK WIDTHS AND ADDITIONAL INFORMATION.
- 2. SEE SIGNAGE AND STRIPING PLANS FOR SIGNAGE AND STRIPING INSTALLATION DETAILS.
- 3. SEE CURB RAMP DETAILS FOR CURB RETURN PROFILE, RAMP DIMENSIONS AND GRADING DETAILS.
- 4. CONTRACTOR TO COORDINATE WITH CITY ON ALL STREET IMPROVEMENTS.
- 5. ALL SIDEWALK GRADES BETWEEN SECTIONS WITH NEW CURB AND SECTIONS WITH EXISTING CURB SHALL TRANSITION WITH GRADES NOT TO EXCEED 4.5% NOMINAL RUNNING SLOPE (5% AS CONSTRUCTED).
- 6. ALL NEW CURB AND GUTTER HEIGHT AND SLOPE SHALL MATCH EXISTING GRADES AT MATCH POINTS. TRANSITION CURB HEIGHT TO BE SMOOTH AND OCCUR OVER 2' - 4' IN LENGTH.
- RESTORE DISTURBED GROUNDS WITH LANDSCAPING PER THE
- -EXISTING PLANTED OR MULCHED AREAS TO BE RESTORED WITH -EXISTING AREAS WITH DECORATIVE ROCK TO BE RESTORED WITH
- SALVAGED DECORATIVE ROCK. SALVAGE AND STOCKPILE ROCK AS NECESSARY FOR CONSTRUCTION. -EXISTING LAWN AREAS TO BE RESTORED WITH LAWN SEED PER THE FOLLOWING SEED MIX:

TAX LOT 1700

TAX MAP 1 1E 36CA

11662 SE 27TH AVE

TAX LOT 1600

TAX MAP 1 1E 36CA

2705 SE LAKE RD

- -30% LOLIUM PERENNE 'BLAZER 4' (BLAZER 4 PERENNIAL RYEGRASS)
- -30% LOLIUM PERENNE 'EXPRESS II' (EXPRESS II PERENNIAL RYEGRASS)
- -20% FESTUCA RUBRA SPP. FALLAX VAR. WINDWARD (WINDWARD CHEWINGS FESCUE)
- -20% FESTUCA RUBRA COMMUTATA VAR. 'GARNETT' (GARNETT CREEPING CHEWINGS FESCUE)
- CONTRACTOR TO PROTECT EXISTING ASPHALT NOT INDICATED FOR REMOVAL FOR TRENCH RESTORATION OR FULL DEPTH PAVEMENT. ANY REMAINING EXISTING ASPHALT PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE SAWCUT, REMOVED, AND RESTORED AS UTILITY TRENCH RESTORATION PRIOR TO MILL AND INLAY.

TAX LOT 1800

TAX MAP 1 1E 36CA

11630 SE 27TH AVE

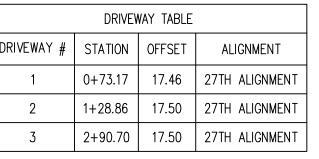
9. CONTRACTOR TO ENSURE ALL SIDEWALK MAINTAINS A MINIMUM 4' CLEAR WIDTH.

2	27TH AL	_IGNM	ENT AL	IGNM	ENT T	ABLE
CURVE/ TANGENT	STATION	RADIUS	LENGTH	DELTA	CHORD	TANGENT/CHORD BEARING
T6	0+00.00		1426.69'			N00°09'32"E

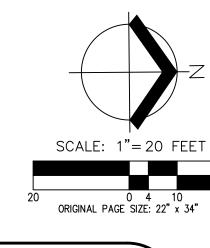
TAX LOT 2000

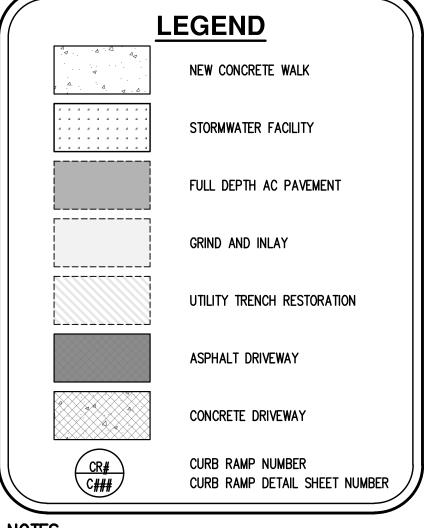
TAX MAP 1 1E 36CA

11598 SE 27TH AVE









STREET KEYED NOTES:

1.A. GRIND AND INLAY.

1.B. FULL DEPTH AC PAVEMENT.

- 2. CONNECT TO EXISTING WALK.
- INSTALL AC PAVEMENT SURFACE RESTORATION FOR UTILITY IMPROVEMENTS, COM 510, SHEET C180.
- 4. INSTALL SIDEWALK PER OSD DETAIL RD720 AND RD721, SHEET C182.
- INSTALL DRIVEWAY PER PWS DETAILS 525 AND 526, SHEET C180.
- INSTALL CURB RAMP WITH DETECTABLE WARNING SURFACE SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION, SHEETS C184-C186.
- 6A. INSTALL SIDEWALK LANDING AND TRANSITION PANELS FOR CURB RAMP AND PUSH BUTTON COMPLIANCE PER PROWAG STANDARDS.
- INSTALL 24" STANDARD CURB AND GUTTER PER OSD DETAIL RD700, SHEET C181.
- 7A. INSTALL LOW PROFILE MOUNTABLE CURB AND GUTTER PER OSD DETAIL RD700,
- 7B. INSTALL THICKENED CURB AND GUTTER PER CITY OF PORTLAND DRAWING P-540 SHEET C186.
- 8. INSTALL STANDARD CURB PER OSD DETAIL RD700, SHEET C181.
- 8A. INSTALL ASPHALT CURB PER OSD DETAIL RD701, SHEET C182.
- 9. INSTALL THICKENED EDGE SIDEWALK WITH FENCE PER DETAIL, SHEET C180 WITH FENCE PER COM DETAIL 514, SHEET C180.
- 9A. INSTALL THICKENED EDGE SIDEWALK PER DETAIL SHEET C180.

10. ADJUST EXISTING STRUCTURE TO FINISHED GRADE.

- 10A. ROTATE MANHOLE CONE 180 DEGREES. ADJUST STRUCTURE TO FINISH GRADE.
- 11. INSTALL CONCRETE TRANSITION PANEL TO TIE INTO EXISTING DRIVEWAY. 12. INSTALL AC PAVEMENT TRANSITION PANEL TO TIE INTO EXISTING DRIVEWAY.
- 13. INSTALL 30' BUS PAD. 14. INSTALL CUT THROUGH ISLAND, SEE DETAIL SHEET C160.
- 15. INSTALL DECORATIVE FENCE PER PWS DETAIL 514, SHEET C180.
- 16. INSTALL 3-FT WIDE GATE PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO COORDINATE WITH CITY FOR INSTALLATION.
- 17A. INSTALL 4' CHAIN LINK FENCE.
- 17B. INSTALL SALVAGED FENCE.
- 18. INSTALL DRIVEWAY PER DRIVEWAY DETAILS, SHEETS C170 TO C177.
- 19. CONTRACTOR TO FIELD ADJUST AND RAISE SIDEWALK GRADE AS NECESSARY TO PROTECT EXISTING TREE(S) AND TREE ROOTS. SIDEWALK TO BE 5% MAX RUNNING SLOPE AND 2% MAX CROSS SLOPE AS CONSTRUCTED.
- 20. REPLACE EXISTING WEEP HOLE PER OSD DETAIL RD700, SHEET C181. CONTRACTOR TO COORDINATE WITH THE CITY FOR LOCATION DETAILS.
- 21. INSTALL STORM FACILITY (ALTERNATIVE SECTION) PER DETAIL SW-305, SHEET C186. STORMWATER FACILITY PLANTING TO BE 1-GALLON HERBACEOUS PLANTS, EVEN MIX OF SPREADING RUSH (JUNCUS PATENS) AND SLOUGH SEDGE
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- 24. INSTALL CONCRETE INLET PER CITY OF PORTLAND DRAWING P-300, SHEET C187. 25. INSTALL 5-FT TALL WESTERN RED CEDAR TREE PER MILWAUKIE STANDARD DRAWING 513. DO NOT INSTALL ROOT BARRIER. COORDINATE WITH CITY AND

PROPERTY OWNER FOR LOCATION PRIOR TO INSTALLATION.



RENEWAL DATE: 12/31/25

JOB NUMBER

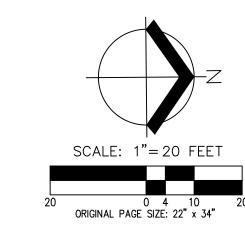
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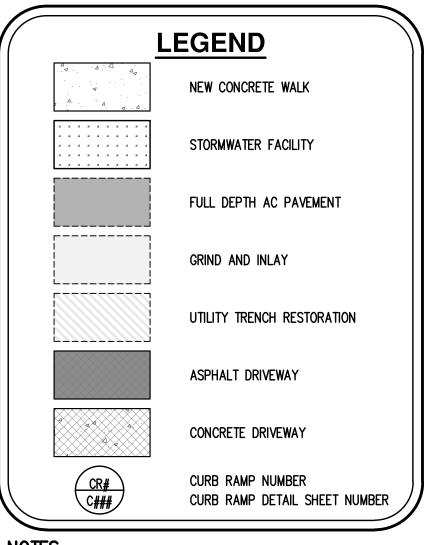
	ST	ORMWA	TER	CAT	CH E	BASIN	I TABI	LE		
СВ	TYPE	TOP OF CURB ELEV	IE OUT	SUMP	PIPE	SLOPE	LENGTH	DS MH	STATION & OFFSET	ALIGNMENT
STM 27TH MH CB 1	MODIFIED CURB INLET MANHOLE	96.43	94.07	1.50'	12"	0.0016	42.69 LF		6+73.39 15.80 R	27TH ALIGNMENT

STORM KEYED NOTES:

- REMOVE EXISTING INLET AND INSTALL MODIFIED CURB INLET MANHOLE PER CWS DETAIL 360, SHEET C253.
- 2. CONNECT EXISTING PIPE TO NEW MANHOLE PER ODOT STANDARD DWG NO RD345, SHEET C252.

	DRIVEV	VAY TABLE	
DRIVEWAY #	STATION	OFFSET	ALIGNMENT
4	3+53.09	17.50	27TH ALIGNMENT
5	4+12.58	17.50	27TH ALIGNMENT
6	4+92.13	17.50	27TH ALIGNMENT
7	5+81.70	17.50	27TH ALIGNMENT
8	6+05.20	17.50	27TH ALIGNMENT
9	6+60.37	12.00	27TH ALIGNMENT
10	7+29.99	17.50	27TH ALIGNMENT
11	7+58.13	17.36	27TH ALIGNMENT





STREET KEYED NOTES:

1.A. GRIND AND INLAY.

1.B. FULL DEPTH AC PAVEMENT.

2. CONNECT TO EXISTING WALK.

- INSTALL AC PAVEMENT SURFACE RESTORATION FOR UTILITY IMPROVEMENTS, COM 510, SHEET C180.
- 4. INSTALL SIDEWALK PER OSD DETAIL RD720 AND RD721, SHEET C182.
- INSTALL DRIVEWAY PER PWS DETAILS 525 AND 526, SHEET C180.
- INSTALL CURB RAMP WITH DETECTABLE WARNING SURFACE SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION, SHEETS C184-C186.
- 6A. INSTALL SIDEWALK LANDING AND TRANSITION PANELS FOR CURB RAMP AND PUSH BUTTON COMPLIANCE PER PROWAG STANDARDS.
- INSTALL 24" STANDARD CURB AND GUTTER PER OSD DETAIL RD700, SHEET C181.
- 7A. INSTALL LOW PROFILE MOUNTABLE CURB AND GUTTER PER OSD DETAIL RD700,
- 7B. INSTALL THICKENED CURB AND GUTTER PER CITY OF PORTLAND DRAWING P-540
- 8. INSTALL STANDARD CURB PER OSD DETAIL RD700, SHEET C181.
- 8A. INSTALL ASPHALT CURB PER OSD DETAIL RD701, SHEET C182. 9. INSTALL THICKENED EDGE SIDEWALK WITH FENCE PER DETAIL, SHEET C180 WITH
- FENCE PER COM DETAIL 514, SHEET C180.
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OREGON OREGON CHR ST NO. RENEWAL DATE: 12/31/25
REVISIONS
JOB NUMBER 8970

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DATE: 06/07/2024

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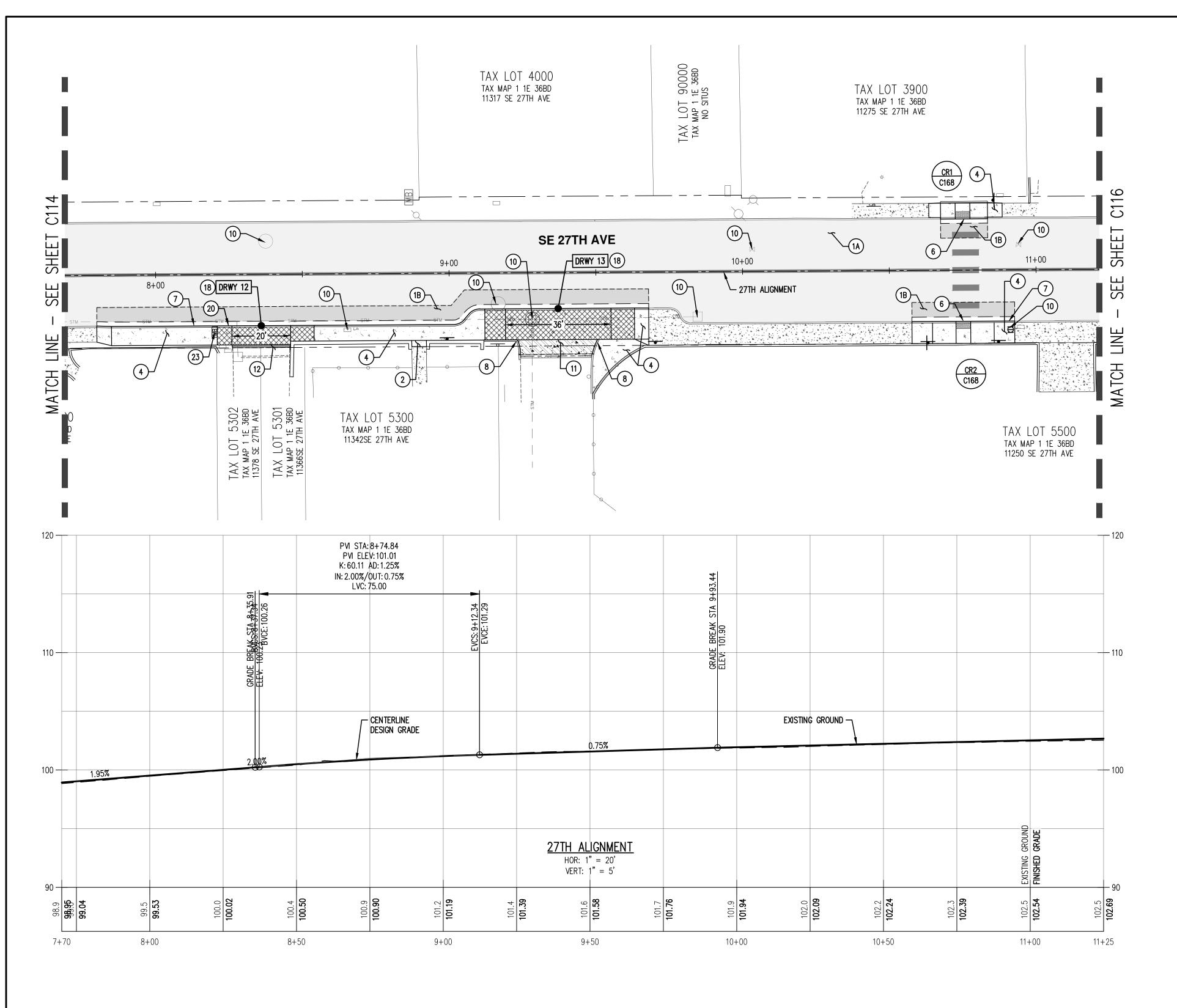
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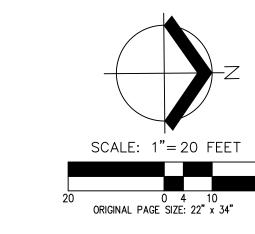
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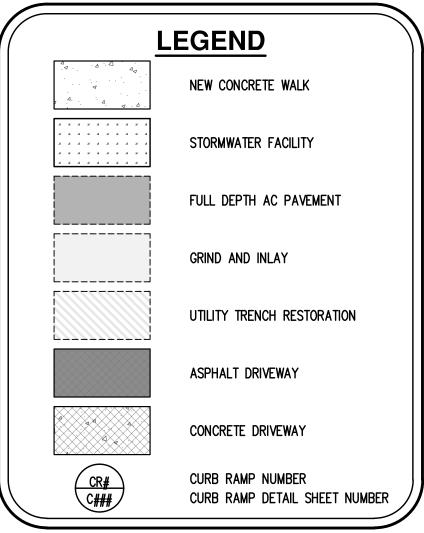
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DRIVEWAY TABLE STATION OFFSET 8+35.91 | 17.50 | 27TH ALIGNMENT 9+37.11 | 12.25 | 27TH ALIGNMENT





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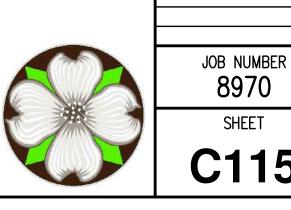
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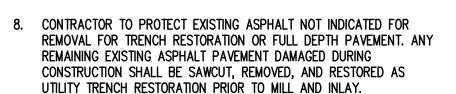
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DATE: 06/07/2024

RENEWAL DATE: 12/31/25

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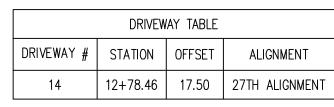
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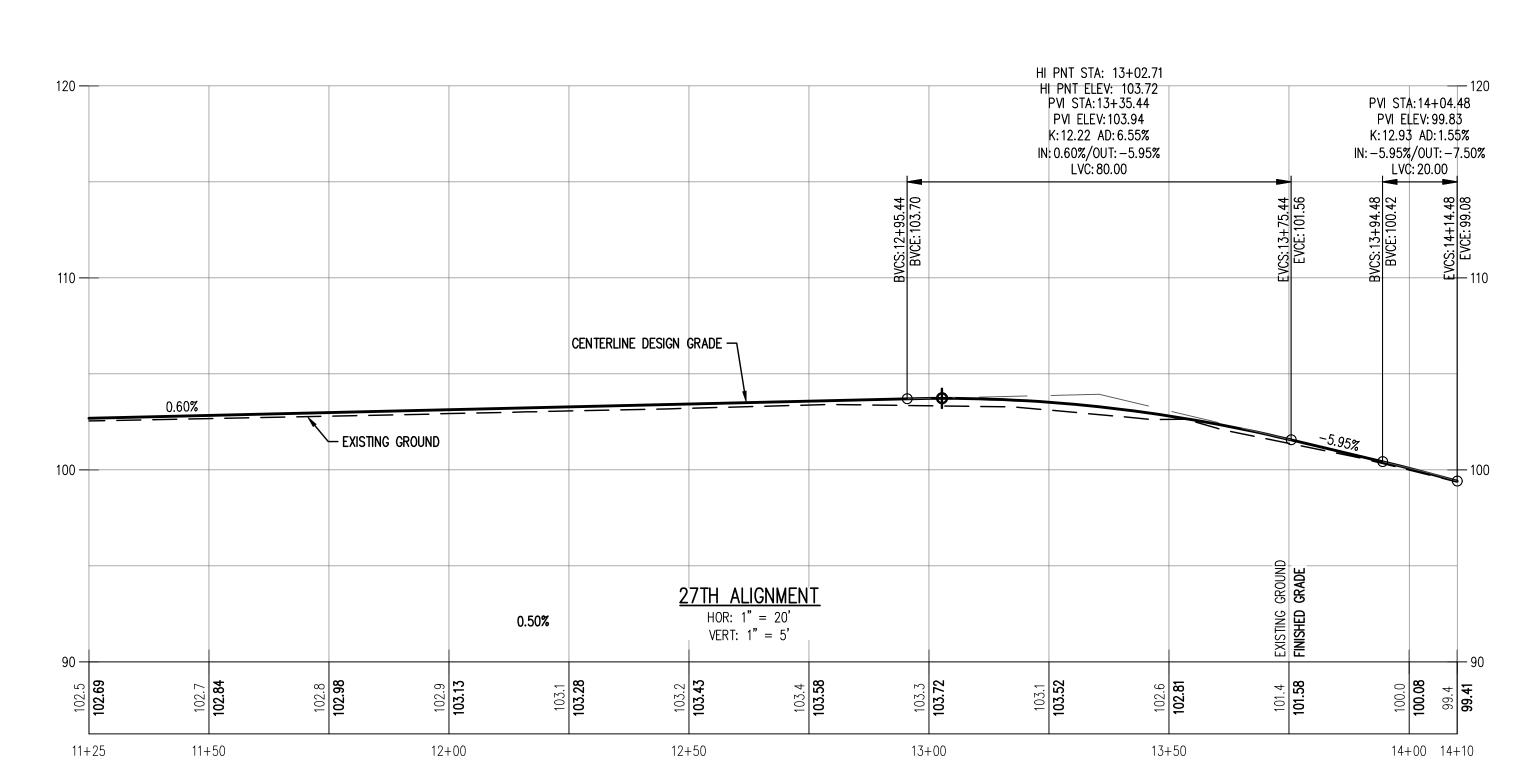
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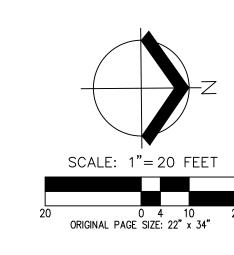
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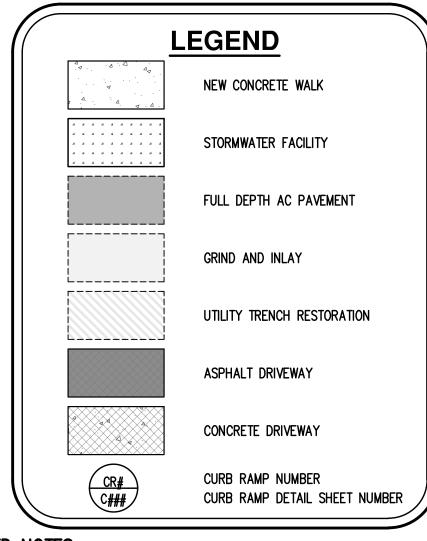
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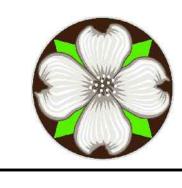


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AKS ENGINEERING & FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
503.563.6151
WWW.AKS-ENG.COM
ENGINEERING • SURVEYING • NATURAL RESC
FORESTRY • PLANNING • LANDSCAPE ARCHITI

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AREA IMPR

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DESIGNED BY:

DRAWN BY:

MANAGED BY:

CHECKED BY:

DATE: 06/07/2024

DATE: 06/07/2024

OREGON

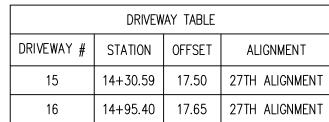
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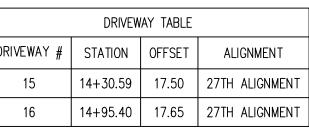
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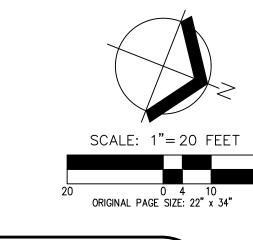
REVISIONS

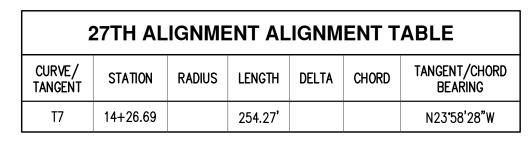
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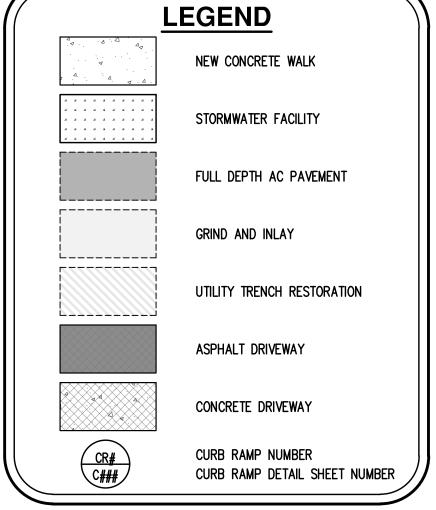
SHEET











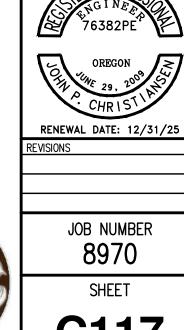
STREET KEYED NOTES:

1. A. GRIND AND INLAY.

1.B. FULL DEPTH AC PAVEMENT.

- 2. CONNECT TO EXISTING WALK.
- INSTALL AC PAVEMENT SURFACE RESTORATION FOR UTILITY IMPROVEMENTS, COM 510, SHEET C180.
- 4. INSTALL SIDEWALK PER OSD DETAIL RD720 AND RD721, SHEET C182.
- INSTALL DRIVEWAY PER PWS DETAILS 525 AND 526, SHEET C180.
- INSTALL CURB RAMP WITH DETECTABLE WARNING SURFACE SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION, SHEETS C184-C186.
- 6A. INSTALL SIDEWALK LANDING AND TRANSITION PANELS FOR CURB RAMP AND PUSH BUTTON COMPLIANCE PER PROWAG STANDARDS.
- INSTALL 24" STANDARD CURB AND GUTTER PER OSD DETAIL RD700, SHEET C181.
- 7A. INSTALL LOW PROFILE MOUNTABLE CURB AND GUTTER PER OSD DETAIL RD700,
- 7B. INSTALL THICKENED CURB AND GUTTER PER CITY OF PORTLAND DRAWING P-540 SHEET C186.
- 8. INSTALL STANDARD CURB PER OSD DETAIL RD700, SHEET C181.
- 8A. INSTALL ASPHALT CURB PER OSD DETAIL RD701, SHEET C182.
- 9. INSTALL THICKENED EDGE SIDEWALK WITH FENCE PER DETAIL, SHEET C180 WITH FENCE PER COM DETAIL 514, SHEET C180.
- 9A. INSTALL THICKENED EDGE SIDEWALK PER DETAIL SHEET C180.
- 10. ADJUST EXISTING STRUCTURE TO FINISHED GRADE.
- 10A. ROTATE MANHOLE CONE 180 DEGREES. ADJUST STRUCTURE TO FINISH GRADE.
- 11. INSTALL CONCRETE TRANSITION PANEL TO TIE INTO EXISTING DRIVEWAY.
- 12. INSTALL AC PAVEMENT TRANSITION PANEL TO TIE INTO EXISTING DRIVEWAY.
- 13. INSTALL 30' BUS PAD.
- 14. INSTALL CUT THROUGH ISLAND, SEE DETAIL SHEET C160.
- 15. INSTALL DECORATIVE FENCE PER PWS DETAIL 514, SHEET C180.
- 16. INSTALL 3-FT WIDE GATE PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO COORDINATE WITH CITY FOR INSTALLATION.
- 17A. INSTALL 4' CHAIN LINK FENCE.
- 17B. INSTALL SALVAGED FENCE.
- 18. INSTALL DRIVEWAY PER DRIVEWAY DETAILS, SHEETS C170 TO C177.
- 19. CONTRACTOR TO FIELD ADJUST AND RAISE SIDEWALK GRADE AS NECESSARY TO PROTECT EXISTING TREE(S) AND TREE ROOTS. SIDEWALK TO BE 5% MAX RUNNING SLOPE AND 2% MAX CROSS SLOPE AS CONSTRUCTED.
- 20. REPLACE EXISTING WEEP HOLE PER OSD DETAIL RD700, SHEET C181. CONTRACTOR TO COORDINATE WITH THE CITY FOR LOCATION DETAILS.
- 21. INSTALL STORM FACILITY (ALTERNATIVE SECTION) PER DETAIL SW-305, SHEET C186. STORMWATER FACILITY PLANTING TO BE 1-GALLON HERBACEOUS PLANTS, EVEN MIX OF SPREADING RUSH (JUNCUS PATENS) AND SLOUGH SEDGE (CAREX OBNUPTA), AT 18" O.C. TRIANGULAR SPACING.
- 22. INSTALL MULTIPLE SUPPORT AND INSTALL SALVAGED MAILBOXES PER OSD DETAILS RD100, SHEET C181 AND RD101, SHEET C181. PLACE SALVAGED MAILBOX ON NEW POST. CONTRACTOR TO COODINATE WITH PRIVATE RESIDENCE.
- 23. INSTALL SINGLE SUPPORT AND INSTALL SALVAGED MAILBOXES PER OSD DETAILS RD100, SHEET C181 AND RD101, SHEET C181. PLACE SALVAGED MAILBOXES ON
- NEW POST. COORDINATE WITH PRIVATE RESIDENCE. 24. INSTALL CONCRETE INLET PER CITY OF PORTLAND DRAWING P-300, SHEET C187.
- 25. INSTALL 5-FT TALL WESTERN RED CEDAR TREE PER MILWAUKIE STANDARD DRAWING 513. DO NOT INSTALL ROOT BARRIER. COORDINATE WITH CITY AND PROPERTY OWNER FOR LOCATION PRIOR TO INSTALLATION.





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DATE: 06/07/2024



IMPROVEMENTS.

14+10

1. SEE TYPICAL STREET SECTIONS FOR PAVEMENTS DEPTH, SIDEWALK WIDTHS AND ADDITIONAL INFORMATION.

14 + 50

15+00

- 2. SEE SIGNAGE AND STRIPING PLANS FOR SIGNAGE AND STRIPING INSTALLATION DETAILS.
- 3. SEE CURB RAMP DETAILS FOR CURB RETURN PROFILE, RAMP DIMENSIONS AND GRADING DETAILS. 4. CONTRACTOR TO COORDINATE WITH CITY ON ALL STREET
- 5. ALL SIDEWALK GRADES BETWEEN SECTIONS WITH NEW CURB AND SECTIONS WITH EXISTING CURB SHALL TRANSITION WITH GRADES NOT TO EXCEED 4.5% NOMINAL RUNNING SLOPE (5% AS CONSTRUCTED).
- 6. ALL NEW CURB AND GUTTER HEIGHT AND SLOPE SHALL MATCH EXISTING GRADES AT MATCH POINTS. TRANSITION CURB HEIGHT TO BE SMOOTH AND OCCUR OVER 2' - 4' IN LENGTH.
- RESTORE DISTURBED GROUNDS WITH LANDSCAPING PER THE

15 + 50

16+00

CLEAR WIDTH.

- -EXISTING PLANTED OR MULCHED AREAS TO BE RESTORED WITH MULCH. -EXISTING AREAS WITH DECORATIVE ROCK TO BE RESTORED WITH SALVAGED DECORATIVE ROCK. SALVAGE AND STOCKPILE ROCK AS NECESSARY FOR CONSTRUCTION.
- -EXISTING LAWN AREAS TO BE RESTORED WITH LAWN SEED PER THE FOLLOWING SEED MIX: -30% LOLIUM PERENNE 'BLAZER 4' (BLAZER 4 PERENNIAL
- RYEGRASS) -30% LOLIUM PERENNE 'EXPRESS II' (EXPRESS II PERENNIAL RYEGRASS)
- CHEWINGS FESCUE) -20% FESTUCA RUBRA COMMUTATA VAR. 'GARNETT' (GARNETT CREEPING CHEWINGS FESCUE)

-20% FESTUCA RUBRA SPP. FALLAX VAR. WINDWARD (WINDWARD

CONTRACTOR TO PROTECT EXISTING ASPHALT NOT INDICATED FOR REMOVAL FOR TRENCH RESTORATION OR FULL DEPTH PAVEMENT. ANY REMAINING EXISTING ASPHALT PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE SAWCUT, REMOVED, AND RESTORED AS UTILITY TRENCH RESTORATION PRIOR TO MILL AND INLAY.

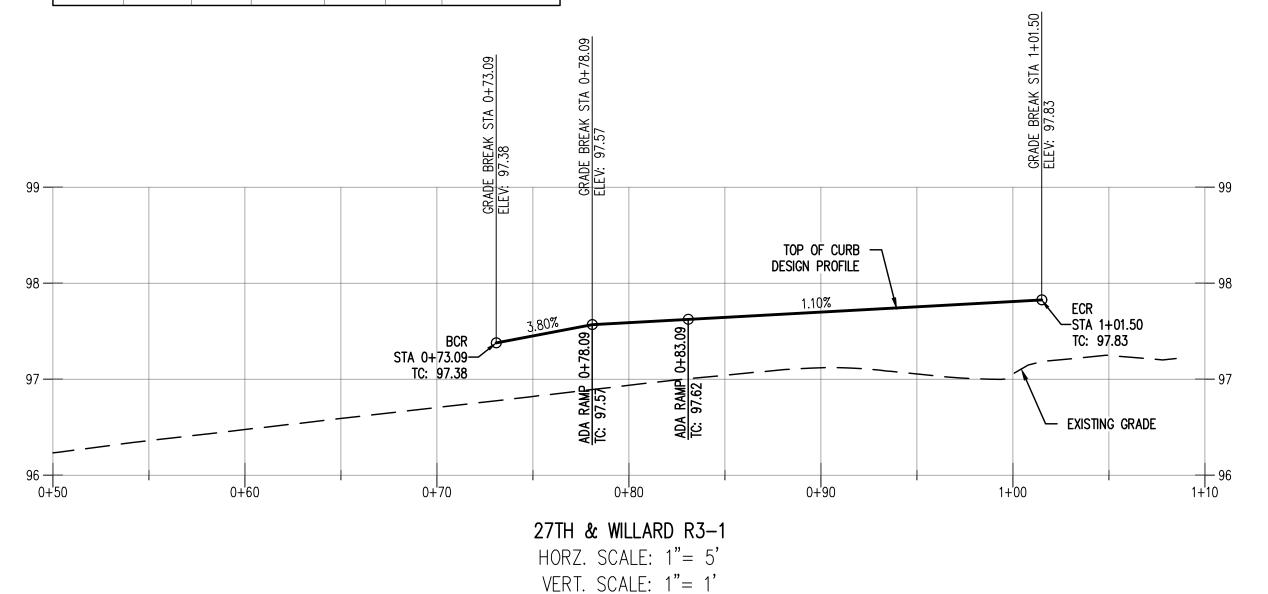
16 + 50

17+00

9. CONTRACTOR TO ENSURE ALL SIDEWALK MAINTAINS A MINIMUM 4'

CURB RAMP DETAIL - 27TH & WILLARD

2	27th & \	Nillard	R3-1 AI	LIGNM	ENT T	ABLE
CURVE/ TANGENT	STATION	RADIUS	DELTA	LENGTH	CHORD	TANGENT/CHORD BEARING
T55	0+33.28			54.81'		N00°09'28"E
C35	0+88.09	7.50'	43°06'43"	5.64'	5.51	N21°42'49"E
T56	0+93.73			2.12'		N43°16'10"E
C36	0+95.86	7.50'	43°06'39"	5.64'	5.51	N21°42'51"E
T57	1+01.50			7.00'		N00°09'32"E



CURB RAMP DETAIL - 27TH MIDBLOCK TC: 101.87 TC/SW:101.70-EG/SW: 101.69--EG/SW:101.86 SCALE: 1"=5 FEET TRANSITION PANEL 0 1 2.5 ORIGINAL PAGE SIZE: 22" x 34" -EG/SW:101.74 EG/SW:101.58-EG/TC: 101.62 EG/BC: 101.26 EG/TC:101.71 EG/BC: 101.31 STA 10+75.06 (17.46'L) 27TH ALIGNMENT SE 27TH AVE STA 10+75.13 (17.43'R) 27TH ALIGNMENT EG/TC:102.14 EG/TC: 102.35 EG/BC:101.74 EG/BC: 102.00 0.7% 5.6**%** 8.0'

CURB RAMP DETAIL - 27TH MIDBLOCK

GENERAL NOTES:

- 1. SEE GENERAL NOTES SHEET FOR A COMPLETE LIST OF GENERAL AND AGENCY SPECIFIC NOTES.
- 2. SIDEWALK CROSS-SLOPE SHALL NOT EXCEED 2.0% AS CONSTRUCTED UNLESS OTHERWISE SPECIFIED.
- 3. RAMP RUNNING SLOPE SHALL NOT EXCEED 8.3% AS CONSTRUCTED UNLESS OTHERWISE SPECIFIED.
- 5. VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS. IF EXISTING CROSS-SLOPE AT MATCH POINT EXCEEDS 2.0%, INSTALL TRANSITION PANEL FROM NEW RAMP/SIDEWALK TO EXISTING. THE CROSS-SLOPE WARP RATE FROM NEW TO EXISTING SHALL NOT EXCEED 0.5% PER FOOT OF LENGTH. THE WARP RATE WILL DICTATE THE TRANSITION PANEL LENGTH. MINIMUM LENGTH SHALL BE 3-FT.

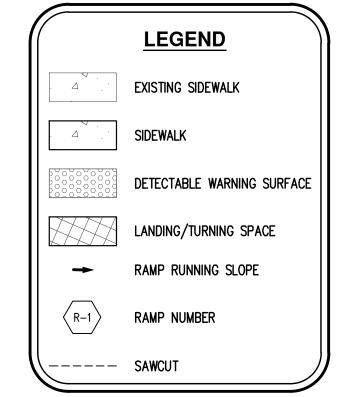
4. REMOVE EXISTING SIDEWALK TO NEAREST PANEL JOINT AT MATCH

- 6. CONSTRUCT ALL SIDEWALK/RAMPS TO MEET ADA AND JURISDICTIONAL REQUIREMENTS UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL CONTACT PROJECT ENGINEER/INSPECTOR ONCE FORMS ARE IN PLACE. TO CHECK FORMS PRIOR TO POURING CONCRETE, CONTRACTOR TO PROVIDE A MINIMUM 48 HOUR WINDOW
- 8. TOP OF CURVE ELEVATIONS SHOWN ON PROFILES REPRESENT FULL HEIGHT CURB AND DO NOT REFLECT DROPS IN CURB OR CURB RAMPS.

(#) KEYED NOTES:

TC: 102.30

- 1. INSTALL DETECTABLE WARNING SURFACE.
- 2. INSTALL STANDARD CURB AND GUTTER.
- 3. INSTALL STANDARD CURB.
- 4. INSTALL CONCRETE SIDEWALK.



ABBREVIATIONS

BC = BOTTOM OF CURB ELEVATION BCR = BEGIN CURB RETURN

BS = BOTTOM STEP ELEVATION CFOR = CENTER FRONT OF RAMP

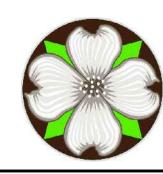
ECR = END CURB RETURNEG = EXISTING GROUND ELEVATION FG = FINISHED GRADE ELEVATION

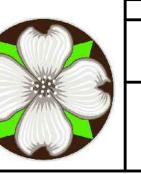
MID = $1/2 \Delta = HALF DELTA$

SW = SIDEWALK ELEVATION PT = POINT OF TANGENCY PC = POINT OF CURVATURE PRC = POINT OF REVERSE CURVE

TC = TOP OF CURB ELEVATION TS = TOP STEP ELEVATION

DOWNWARD SLOPE X.X%_





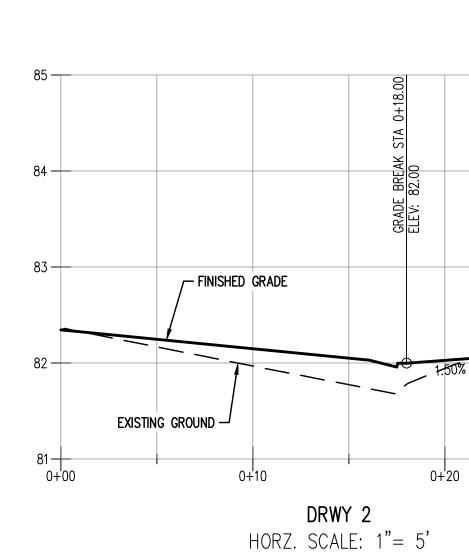
AM CURB

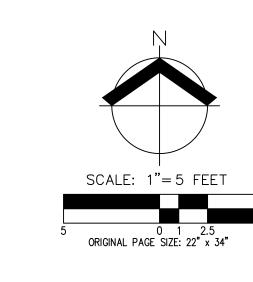
DATE: 06/07/2024

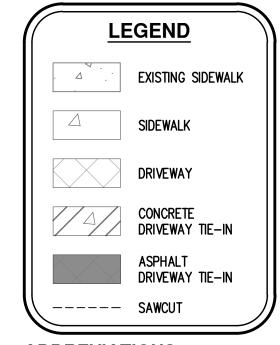
RENEWAL DATE: 12/31/25

JOB NUMBER

SHEET







TC = TOP OF CURB ELEVATION BC = BOTTOM OF CURB ELEVATION SW = SIDEWALK ELEVATIONEG = EXISTING GROUND ELEVATIONFG = FINISHED GRADE ELEVATION

DOWNWARD SLOPE

GENERAL NOTES:

- 1. SEE GENERAL NOTES SHEET FOR A COMPLETE LIST OF GENERAL AND AGENCY SPECIFIC NOTES.
- 2. SIDEWALK CROSS-SLOPE SHALL NOT EXCEED 2.0% AS CONSTRUCTED UNLESS OTHERWISE
- 3. RAMP RUNNING SLOPE SHALL NOT EXCEED 8.3% AS CONSTRUCTED UNLESS OTHERWISE
- 4. REMOVE EXISTING SIDEWALK TO NEAREST PANEL JOINT AT MATCH POINTS.
- 5. VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS. IF EXISTING CROSS-SLOPE AT MATCH POINT EXCEEDS 2.0%, INSTALL TRANSITION PANEL THE CROSS-SLOPE WARP RATE FROM NEW TO EXISTING SHALL NOT EXCEED 0.5% PER FOOT OF LENGTH. THE WARP RATE WILL DICTATE THE TRANSITION PANEL LENGTH. MINIMUM LENGTH SHALL BE 3-FT.
- 6. CONSTRUCT ALL SIDEWALK/DRIVEWAYS TO MEET ADA AND JURISDICTIONAL REQUIREMENTS UNLESS OTHERWISE
- 7. CONTRACTOR TO SAWCUT EXISTING AC PAVEMENT TO PROVIDE A CLEAN SURFACE FOR DRIVEWAY APPROACH TO TIE INTO. SEAL ALL AC PAVEMENT JOINTS WITH A HEAT-APPLIED RUBBERIZED SEALANT.

(#) KEYED NOTES:

- 1. INSTALL CURB LINE SIDEWALK DRIVEWAY. SEE PWS DETAIL 526, SHEET C180 FOR ADDITIONAL INSTALLATION INFORMATION.
- 2. INSTALL SLOPED DRIVEWAY EDGE TO TIE INTO EXISTING WALL. SEE DETAIL, SHEET
- 3. INSTALL STANDARD CURB AND GUTTER PER OSD RD700, SHEET C181.
- 4. INSTALL LOW PROFILE MOUNTABLE CURB PER PBOT DETAIL P-540, SHEET C186.
- 5. INSTALL TRANSITION FROM STANDARD CURB AND GUTTER TO LOW PROFILE MOUNTABLE CURB.
- 6. INSTALL PRIVATE DRIVEWAY PER DRIVEWAY PROFILE AND PAVEMENT SECTION.



JOB NUMBER C170

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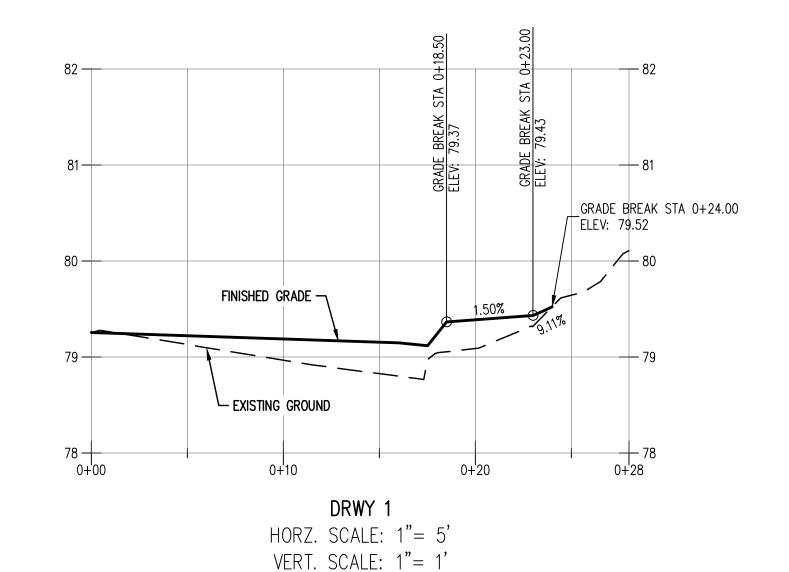
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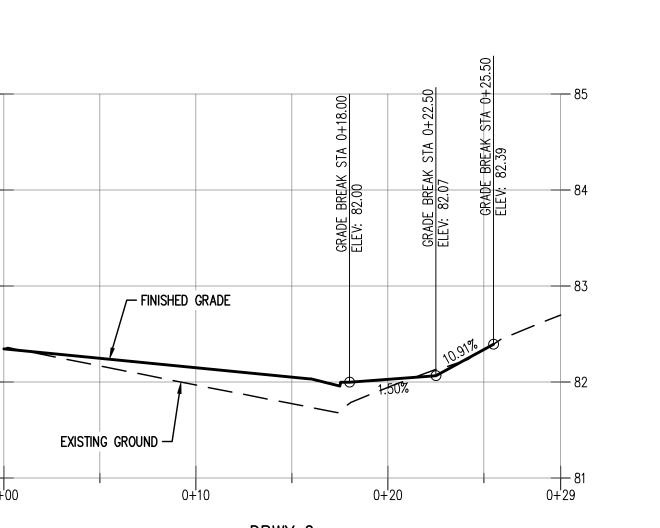
RIVE

DATE: 06/07/2024

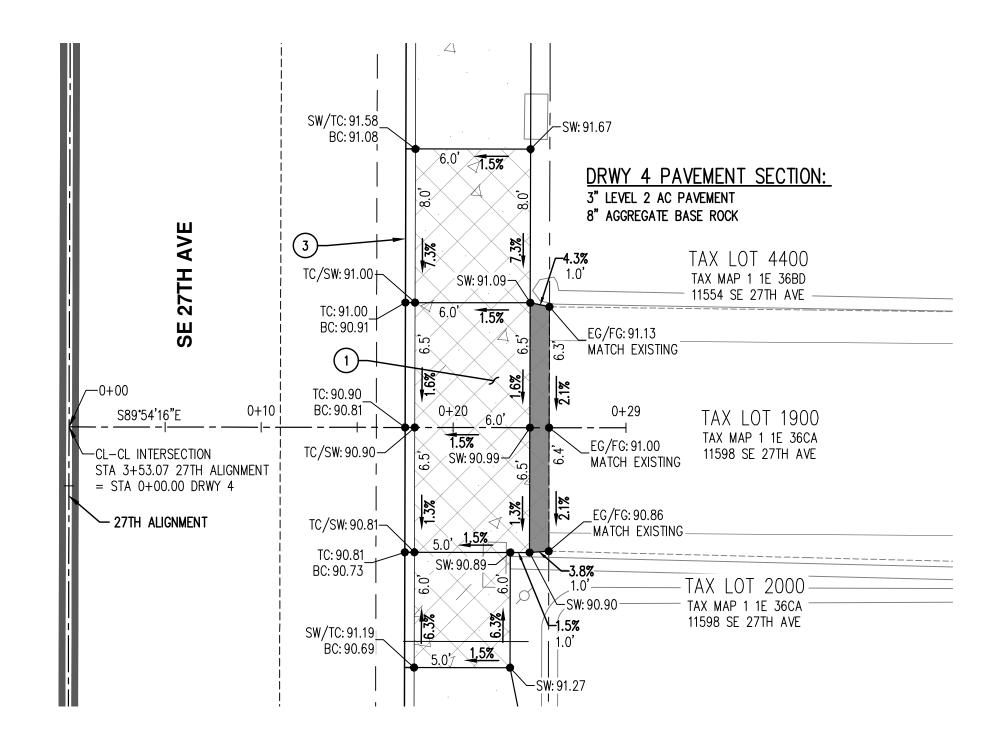
RENEWAL DATE: 12/31/25

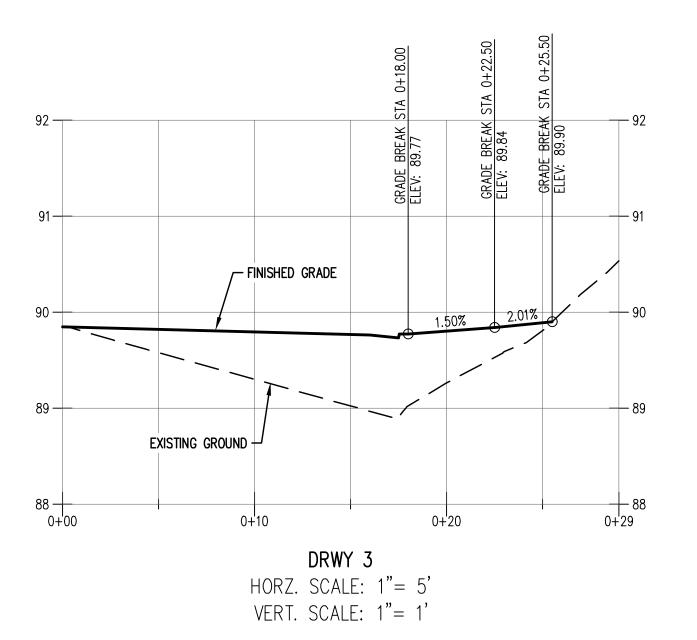
SHEET

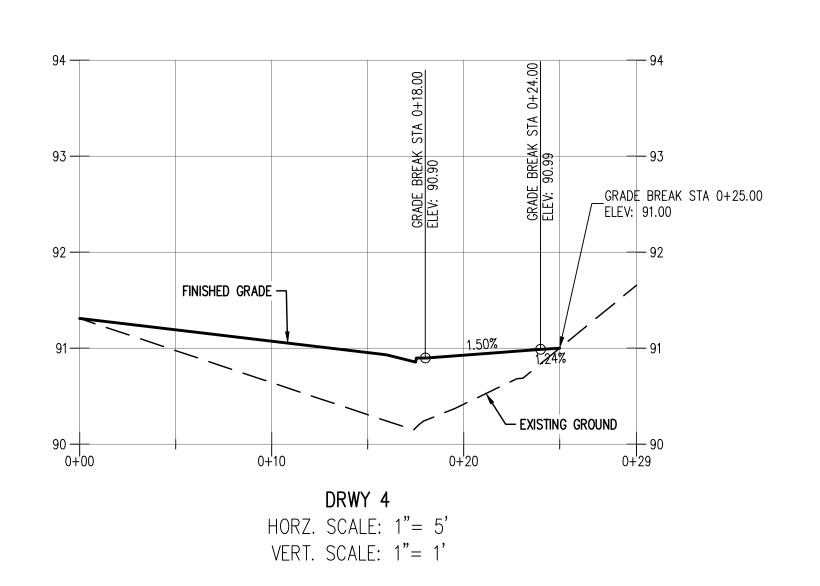


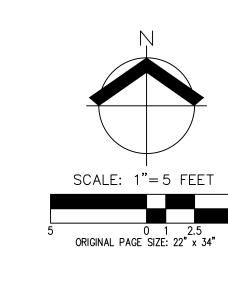


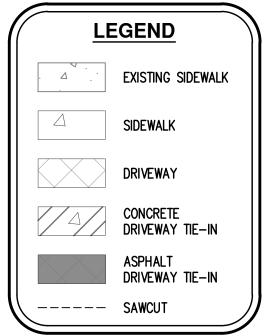
VERT. SCALE: 1"= 1'











TC = TOP OF CURB ELEVATION BC = BOTTOM OF CURB ELEVATION SW = SIDEWALK ELEVATIONEG = EXISTING GROUND ELEVATIONFG = FINISHED GRADE ELEVATION

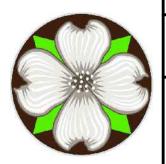
DOWNWARD SLOPE

GENERAL NOTES:

- 1. SEE GENERAL NOTES SHEET FOR A COMPLETE LIST OF GENERAL AND AGENCY SPECIFIC NOTES.
- 2. SIDEWALK CROSS-SLOPE SHALL NOT EXCEED 2.0% AS CONSTRUCTED UNLESS OTHERWISE
- 3. RAMP RUNNING SLOPE SHALL NOT EXCEED 8.3% AS CONSTRUCTED UNLESS OTHERWISE
- 4. REMOVE EXISTING SIDEWALK TO NEAREST PANEL JOINT AT MATCH POINTS.
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- 6. CONSTRUCT ALL SIDEWALK/DRIVEWAYS TO MEET ADA AND JURISDICTIONAL REQUIREMENTS UNLESS OTHERWISE
- 7. CONTRACTOR TO SAWCUT EXISTING AC PAVEMENT TO PROVIDE A CLEAN SURFACE FOR DRIVEWAY APPROACH TO TIE INTO. SEAL ALL AC PAVEMENT JOINTS WITH A HEAT-APPLIED RUBBERIZED SEALANT.

(#) KEYED NOTES:

- 1. INSTALL CURB LINE SIDEWALK DRIVEWAY. SEE PWS DETAIL 526, SHEET C180 FOR ADDITIONAL INSTALLATION INFORMATION.
- 2. INSTALL SLOPED DRIVEWAY EDGE TO TIE INTO EXISTING WALL. SEE DETAIL, SHEET
- 3. INSTALL STANDARD CURB AND GUTTER PER OSD RD700, SHEET C181.
- 4. INSTALL LOW PROFILE MOUNTABLE CURB PER PBOT DETAIL P-540, SHEET C186.
- 5. INSTALL TRANSITION FROM STANDARD CURB AND GUTTER TO LOW PROFILE MOUNTABLE CURB.
- 6. INSTALL PRIVATE DRIVEWAY PER DRIVEWAY PROFILE AND PAVEMENT SECTION.





DATE: 06/07/2024

RENEWAL DATE: 12/31/25

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RIVE

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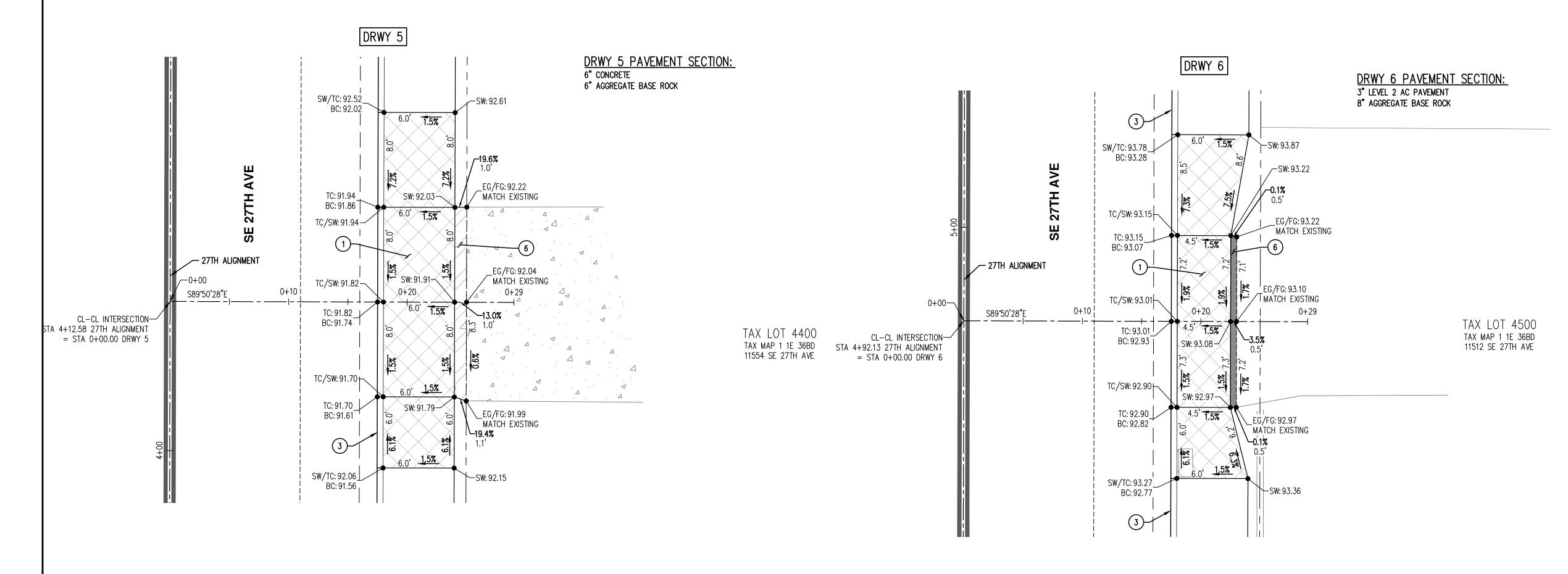
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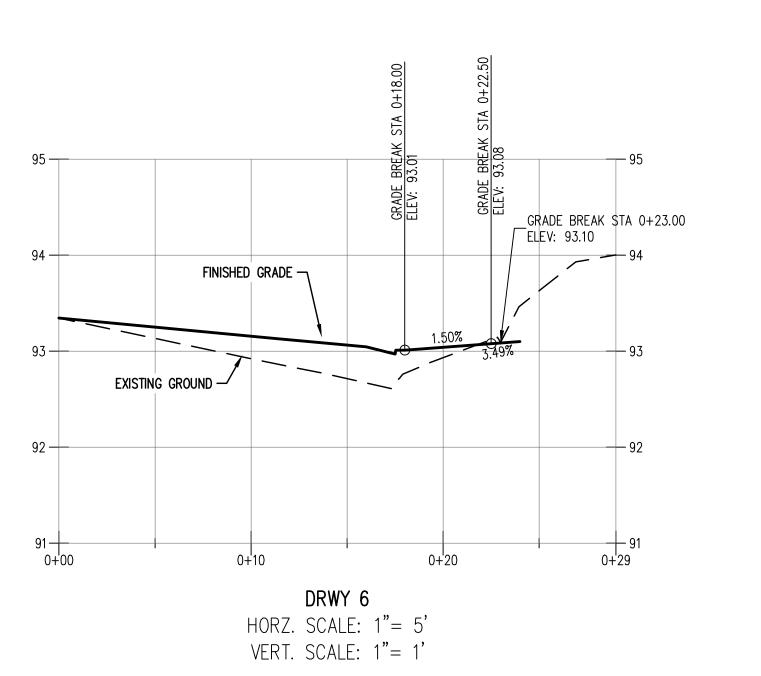
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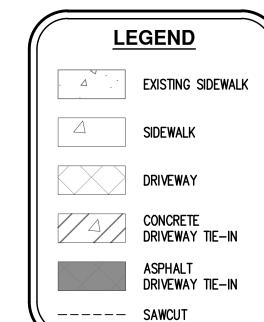
DATE: 06/07/2024

RENEWAL DATE: 12/31/25

SHEET







ABBREVIATIONS

TC = TOP OF CURB ELEVATION BC = BOTTOM OF CURB ELEVATION SW = SIDEWALK ELEVATIONEG = EXISTING GROUND ELEVATIONFG = FINISHED GRADE ELEVATION

DOWNWARD SLOPE

GENERAL NOTES:

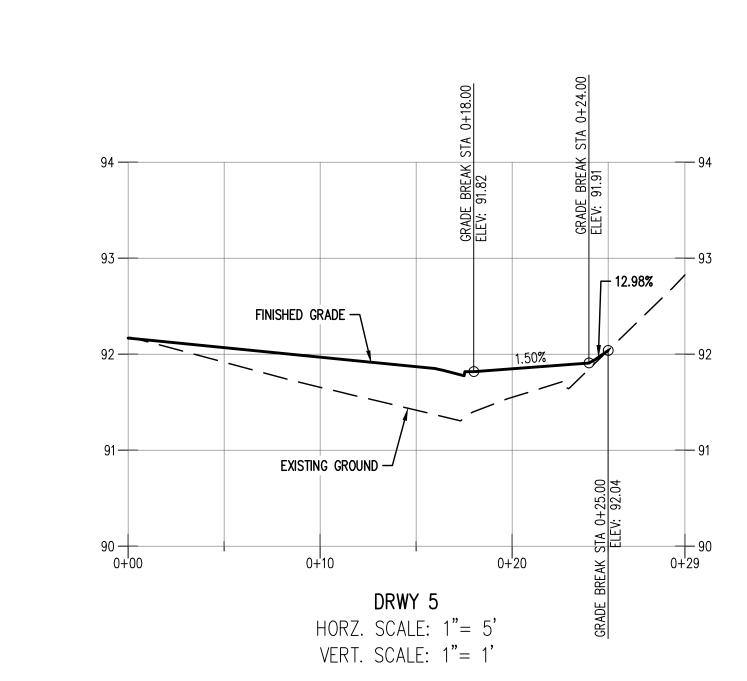
- 1. SEE GENERAL NOTES SHEET FOR A COMPLETE LIST OF GENERAL AND AGENCY SPECIFIC NOTES.
- 2. SIDEWALK CROSS-SLOPE SHALL NOT EXCEED 2.0% AS CONSTRUCTED UNLESS OTHERWISE
- 3. RAMP RUNNING SLOPE SHALL NOT EXCEED 8.3% AS CONSTRUCTED UNLESS OTHERWISE
- 4. REMOVE EXISTING SIDEWALK TO NEAREST PANEL JOINT AT MATCH POINTS.
- 5. VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS. IF EXISTING CROSS-SLOPE AT MATCH POINT EXCEEDS 2.0%, INSTALL TRANSITION PANEL FROM NEW DRIVEWAY/SIDEWALK TO EXISTING THE CROSS-SLOPE WARP RATE FROM NEW TO EXISTING SHALL NOT EXCEED 0.5% PER FOOT OF LENGTH. THE WARP RATE WILL DICTATE THE TRANSITION PANEL LENGTH. MINIMUM LENGTH SHALL BE 3-FT.
- 6. CONSTRUCT ALL SIDEWALK/DRIVEWAYS TO MEET ADA AND JURISDICTIONAL REQUIREMENTS UNLESS OTHERWISE SPECIFIED.
- 7. CONTRACTOR TO SAWCUT EXISTING AC PAVEMENT TO PROVIDE A CLEAN SURFACE FOR DRIVEWAY APPROACH TO TIE INTO. SEAL ALL AC PAVEMENT JOINTS WITH A HEAT-APPLIED RUBBERIZED SEALANT.

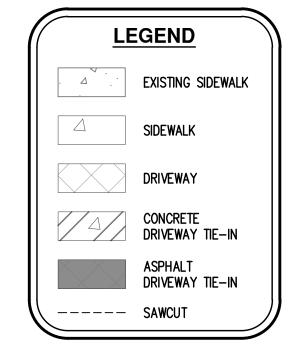
(#) KEYED NOTES:

- 1. INSTALL CURB LINE SIDEWALK DRIVEWAY. SEE PWS DETAIL 526, SHEET C180 FOR ADDITIONAL INSTALLATION INFORMATION.
- NOT USED.
- 3. INSTALL STANDARD CURB AND GUTTER PER OSD RD700, SHEET C181.
- 4. INSTALL LOW PROFILE MOUNTABLE CURB PER PBOT DETAIL P-540, SHEET C186.
- 5. INSTALL TRANSITION FROM STANDARD CURB AND GUTTER TO LOW PROFILE MOUNTABLE CURB.
- 6. INSTALL PRIVATE DRIVEWAY PER DRIVEWAY PROFILE AND PAVEMENT SECTION.









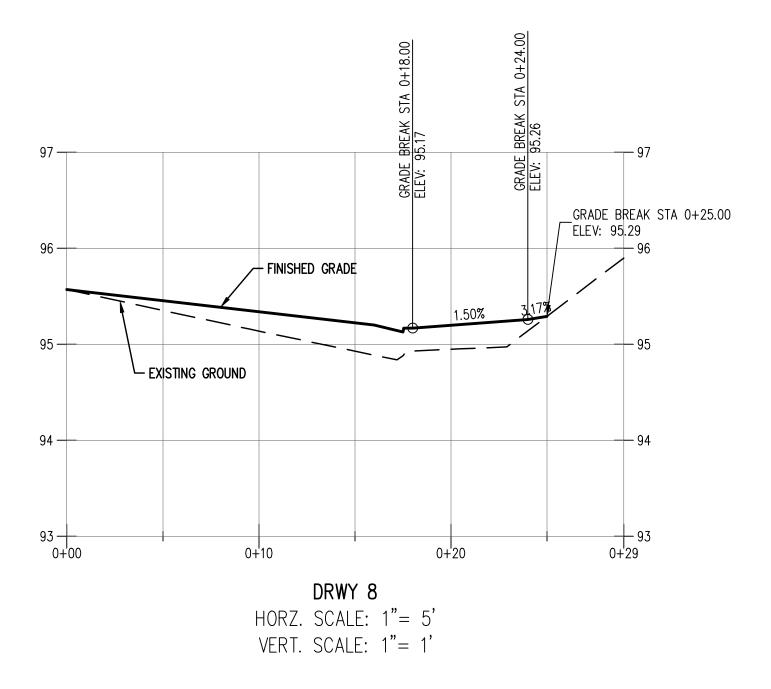
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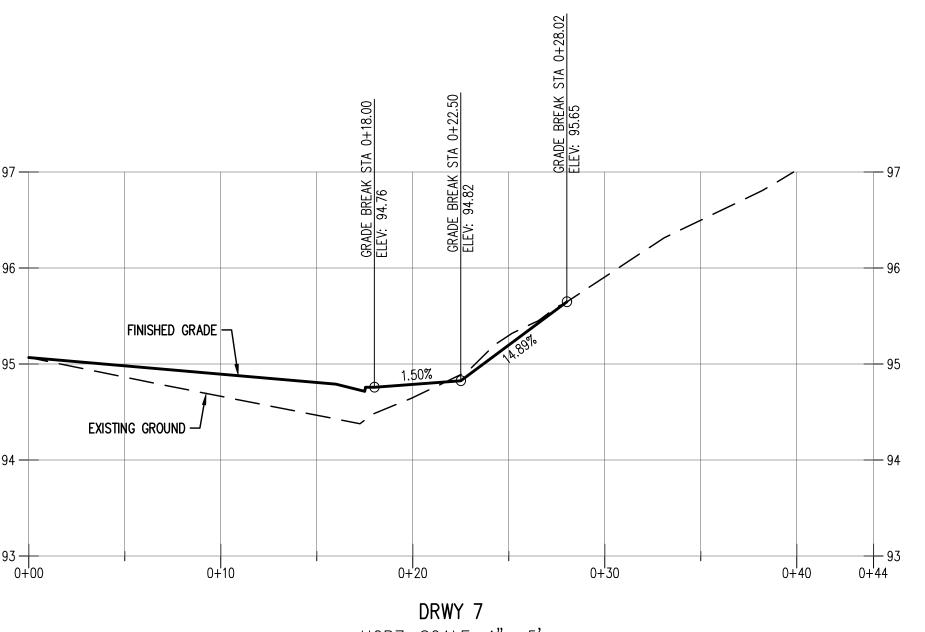
FG = FINISHED GRADE ELEVATION

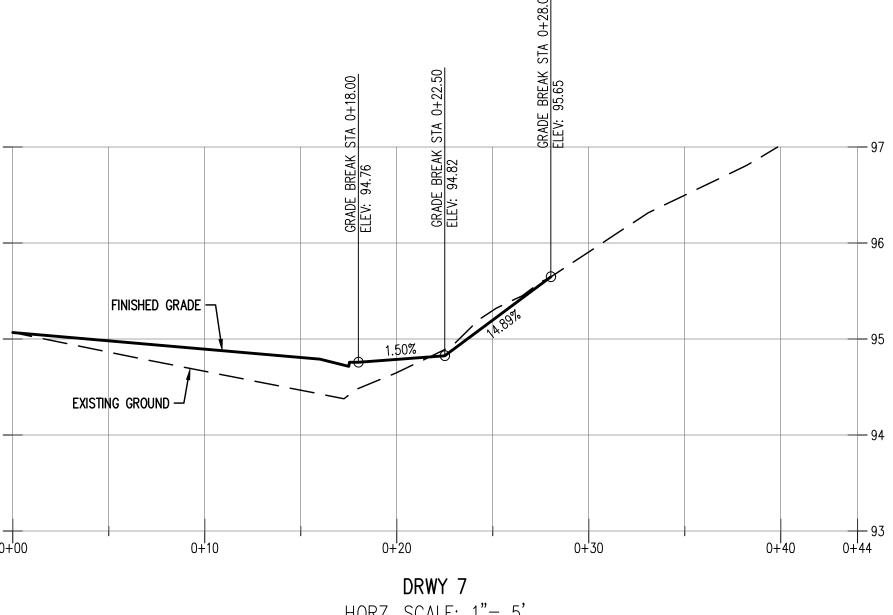
- 1. SEE GENERAL NOTES SHEET FOR A COMPLETE LIST OF GENERAL AND AGENCY
- 2. SIDEWALK CROSS-SLOPE SHALL NOT EXCEED 2.0% AS CONSTRUCTED UNLESS OTHERWISE
- 8.3% AS CONSTRUCTED UNLESS OTHERWISE

- 6. CONSTRUCT ALL SIDEWALK/DRIVEWAYS TO MEET ADA AND JURISDICTIONAL REQUIREMENTS UNLESS OTHERWISE
- PAVEMENT TO PROVIDE A CLEAN SURFACE FOR DRIVEWAY APPROACH TO TIE INTO. SEAL ALL AC PAVEMENT JOINTS WITH A HEAT-APPLIED RUBBERIZED SEALANT.

- 4. INSTALL LOW PROFILE MOUNTABLE CURB
- 5. INSTALL TRANSITION FROM STANDARD



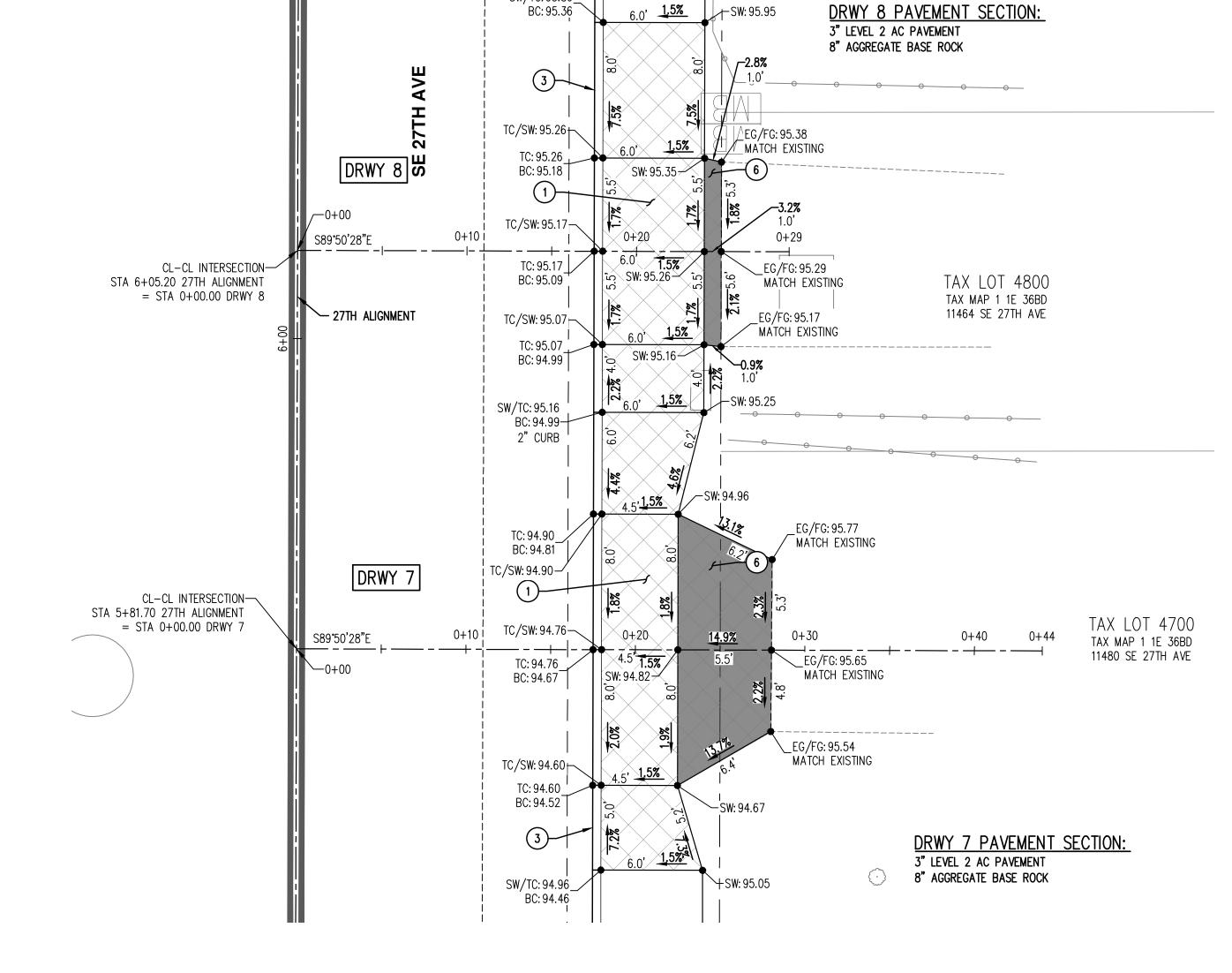




HORZ. SCALE: 1"= 5' VERT. SCALE: 1"= 1'







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RIVE

DESIGNED BY:

DATE: 06/07/2024

RENEWAL DATE: 12/31/25

ABBREVIATIONS

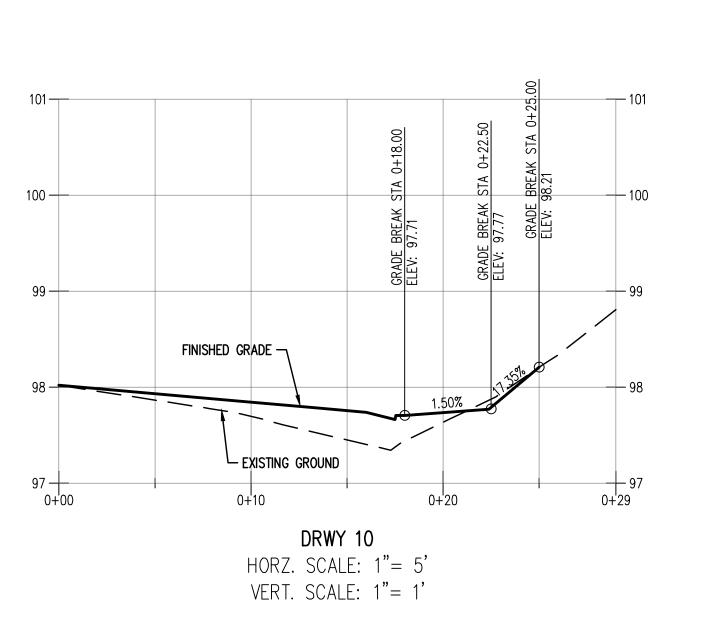
DOWNWARD SLOPE

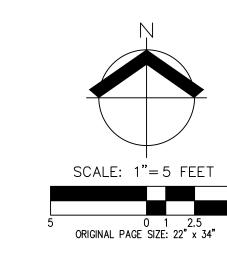
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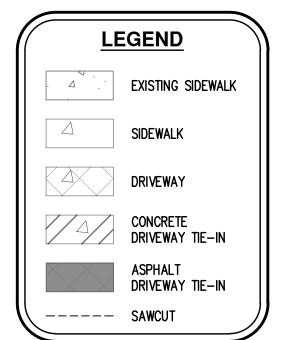
- SPECIFIC NOTES.
- 3. RAMP RUNNING SLOPE SHALL NOT EXCEED
- 4. REMOVE EXISTING SIDEWALK TO NEAREST PANEL JOINT AT MATCH POINTS.
- 5. VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS. IF EXISTING CROSS-SLOPE AT MATCH POINT EXCEEDS 2.0%, INSTALL TRANSITION PANEL FROM NEW DRIVEWAY/SIDEWALK TO EXISTING THE CROSS-SLOPE WARP RATE FROM NEW TO EXISTING SHALL NOT EXCEED 0.5% PER FOOT OF LENGTH. THE WARP RATE WILL DICTATE THE TRANSITION PANEL LENGTH. MINIMUM LENGTH SHALL BE 3-FT.
- 7. CONTRACTOR TO SAWCUT EXISTING AC

KEYED NOTES:

- 1. INSTALL CURB LINE SIDEWALK DRIVEWAY. SEE PWS DETAIL 526, SHEET C180 FOR ADDITIONAL INSTALLATION INFORMATION.
- NOT USED.
- 3. INSTALL STANDARD CURB AND GUTTER PER OSD RD700, SHEET C181.
- PER PBOT DETAIL P-540, SHEET C186.
- CURB AND GUTTER TO LOW PROFILE MOUNTABLE CURB.
- 6. INSTALL PRIVATE DRIVEWAY PER DRIVEWAY PROFILE AND PAVEMENT SECTION.







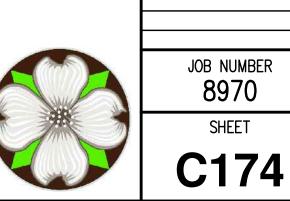
TC = TOP OF CURB ELEVATION BC = BOTTOM OF CURB ELEVATION SW = SIDEWALK ELEVATIONEG = EXISTING GROUND ELEVATION FG = FINISHED GRADE ELEVATION

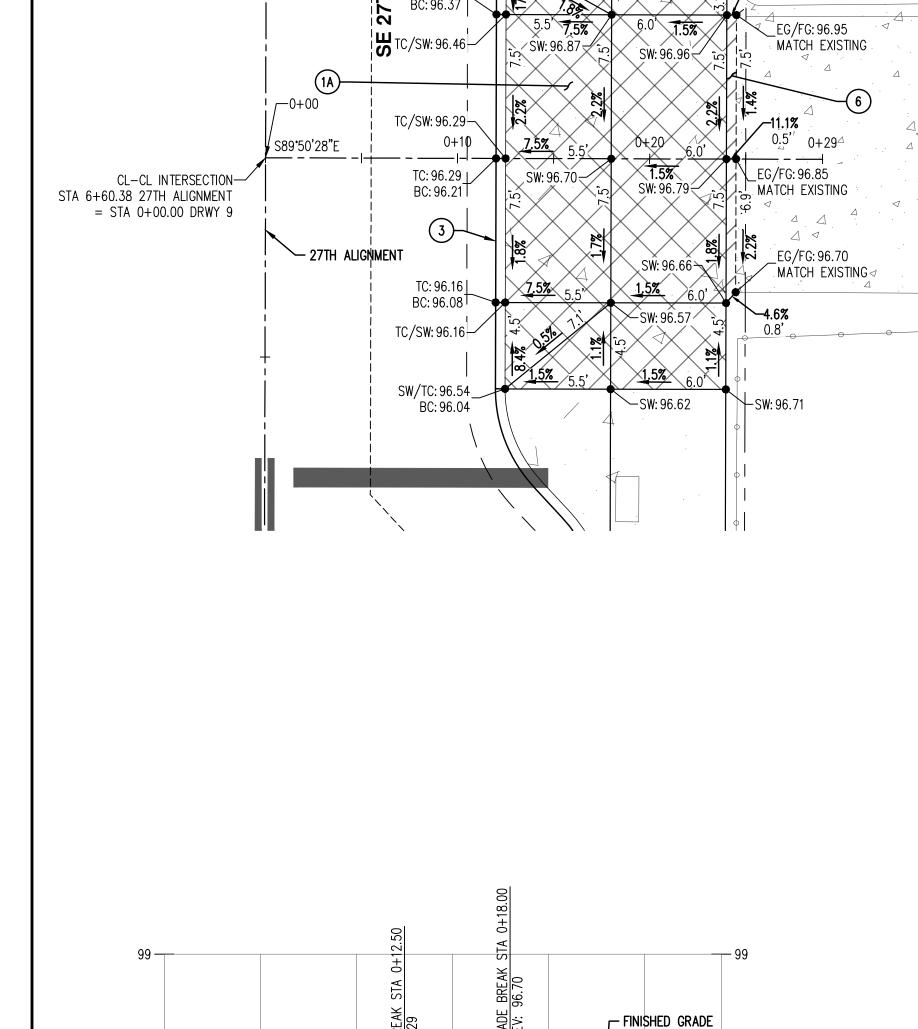
DOWNWARD SLOPE

GENERAL NOTES:

- 1. SEE GENERAL NOTES SHEET FOR A COMPLETE LIST OF GENERAL AND AGENCY SPECIFIC NOTES.
- 2. SIDEWALK CROSS-SLOPE SHALL NOT EXCEED 2.0% AS CONSTRUCTED UNLESS OTHERWISE
- 3. RAMP RUNNING SLOPE SHALL NOT EXCEED 8.3% AS CONSTRUCTED UNLESS OTHERWISE SPECIFIED.
- 5. VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS. IF EXISTING CROSS-SLOPE AT MATCH POINT EXCEEDS 2.0%, INSTALL TRANSITION PANEL FROM NEW DRIVEWAY/SIDEWALK TO EXISTING THE CROSS-SLOPE WARP RATE FROM NEW TO EXISTING SHALL NOT EXCEED 0.5% PER FOOT OF LENGTH. THE WARP RATE WILL DICTATE THE TRANSITION PANEL LENGTH.
- 6. CONSTRUCT ALL SIDEWALK/DRIVEWAYS TO MEET ADA AND JURISDICTIONAL REQUIREMENTS UNLESS OTHERWISE SPECIFIED.
- FOR DRIVEWAY APPROACH TO TIE INTO. SEAL ALL AC PAVEMENT JOINTS WITH A HEAT-APPLIED RUBBERIZED SEALANT.
- 1. INSTALL CURB LINE SIDEWALK DRIVEWAY. SEE PWS DETAIL 526, SHEET C180 FOR ADDITIONAL INSTALLATION INFORMATION.
- 1A. INSTALL SETBACK SIDEWALK DRIVEWAY. SEE PWS DETAIL 525, SHEET C180 FOR ADDITIONAL INSTALLATION INFORMATION
- PER OSD RD700, SHEET C181.
- 4. INSTALL LOW PROFILE MOUNTABLE CURB PER PBOT DETAIL P-540, SHEET C186.
- 5. INSTALL TRANSITION FROM STANDARD CURB AND GUTTER TO LOW PROFILE
- 6. INSTALL PRIVATE DRIVEWAY PER DRIVEWAY PROFILE AND PAVEMENT SECTION.







1.50%

DRWY 9

HORZ. SCALE: 1"= 5' VERT. SCALE: 1"= 1'

EXISTING GROUND —

GRADE BREAK STA 0+24.50

GRADE BREAK STA 0+24.00

ELEV: 96.85

ELEV: 96.79

- 4. REMOVE EXISTING SIDEWALK TO NEAREST PANEL JOINT AT MATCH POINTS.
- MINIMUM LENGTH SHALL BE 3-FT.
- 7. CONTRACTOR TO SAWCUT EXISTING AC PAVEMENT TO PROVIDE A CLEAN SURFACE

- **(#)** KEYED NOTES:
- NOT USED. 3. INSTALL STANDARD CURB AND GUTTER
- MOUNTABLE CURB.



ORE 0 $\mathbf{\alpha}$

4

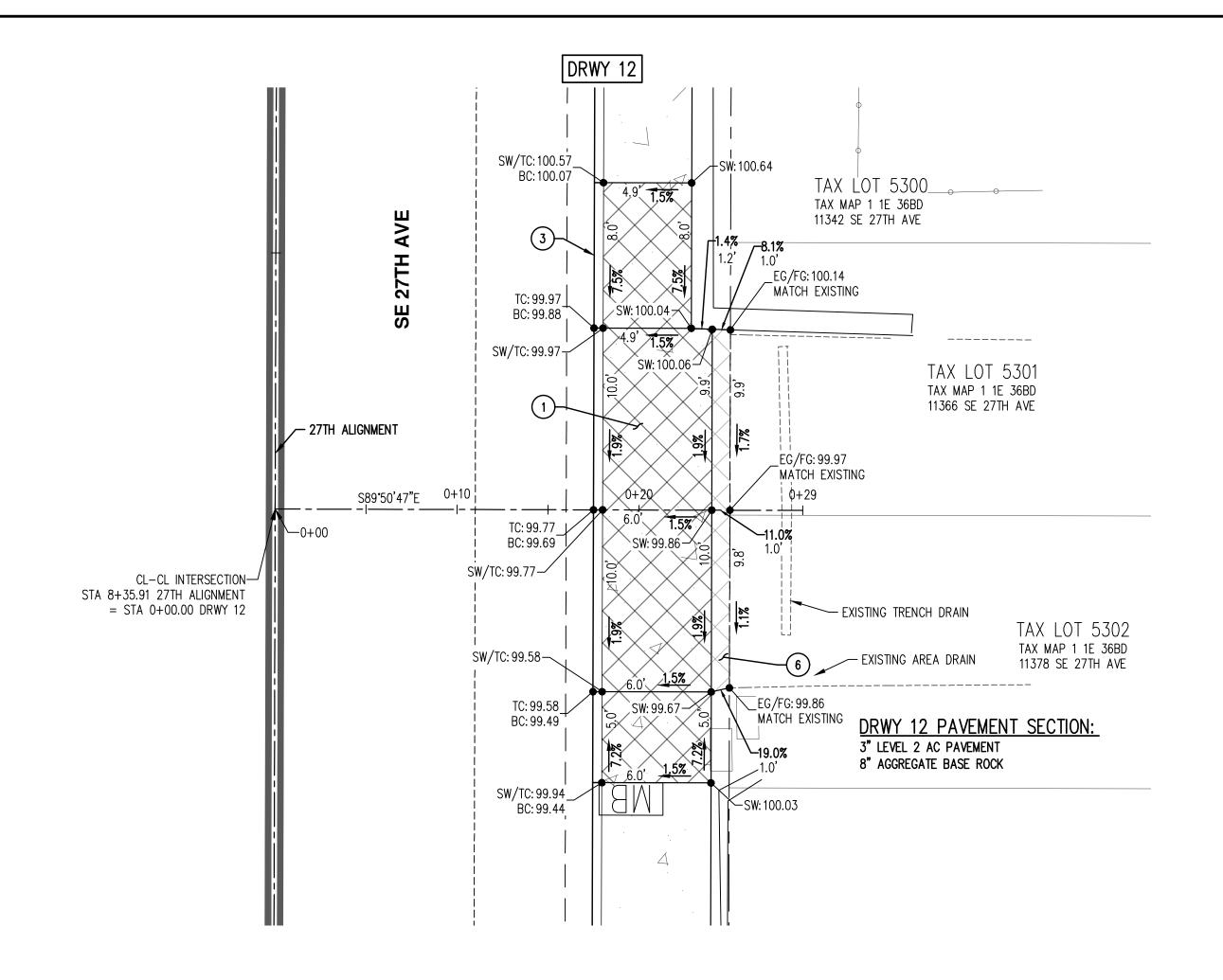
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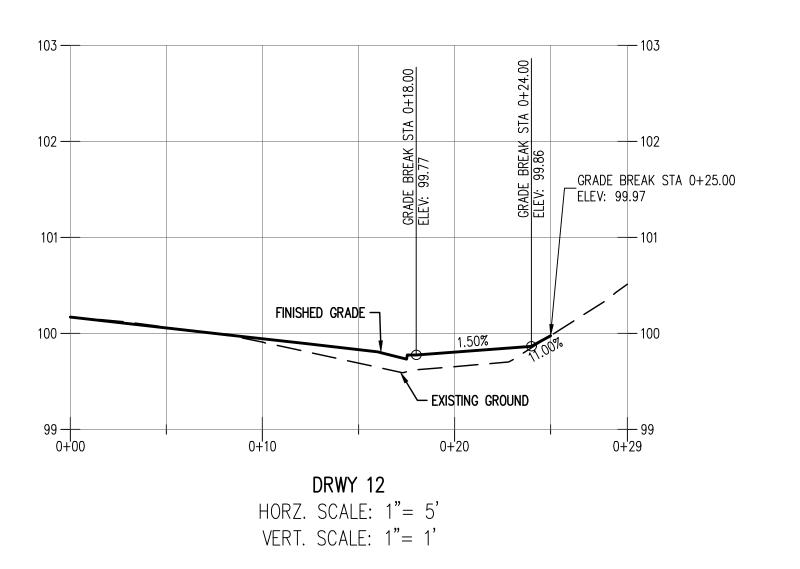
RIVE

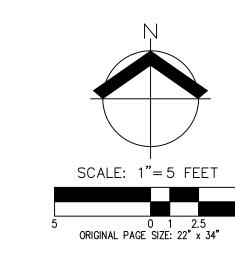
DESIGNED BY: DATE: 06/07/2024

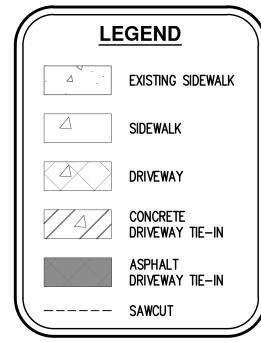
RENEWAL DATE: 12/31/25

JOB NUMBER SHEET









TC = TOP OF CURB ELEVATION
BC = BOTTOM OF CURB ELEVATION
SW = SIDEWALK ELEVATION
EG = EXISTING GROUND ELEVATION
FG = FINISHED GRADE ELEVATION

DOWNWARD SLOPE X.

GENERAL NOTES:

- SEE GENERAL NOTES SHEET FOR A COMPLETE LIST OF GENERAL AND AGENCY SPECIFIC NOTES.
- 2. SIDEWALK CROSS-SLOPE SHALL NOT EXCEED 2.0% AS CONSTRUCTED UNLESS OTHERWISE SPECIFIED.
- 3. RAMP RUNNING SLOPE SHALL NOT EXCEED 8.3% AS CONSTRUCTED UNLESS OTHERWISE SPECIFIED.
- 4. REMOVE EXISTING SIDEWALK TO NEAREST PANEL JOINT AT MATCH POINTS.
- 5. VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS.
 IF EXISTING CROSS—SLOPE AT MATCH POINT EXCEEDS 2.0%, INSTALL TRANSITION PANEL FROM NEW DRIVEWAY/SIDEWALK TO EXISTING. THE CROSS—SLOPE WARP RATE FROM NEW TO EXISTING SHALL NOT EXCEED 0.5% PER FOOT OF LENGTH. THE WARP RATE WILL DICTATE THE TRANSITION PANEL LENGTH. MINIMUM LENGTH SHALL BE 3—FT.
- 6. CONSTRUCT ALL SIDEWALK/DRIVEWAYS TO MEET ADA AND JURISDICTIONAL REQUIREMENTS UNLESS OTHERWISE SPECIFIED.
- 7. CONTRACTOR TO SAWCUT EXISTING AC PAVEMENT TO PROVIDE A CLEAN SURFACE FOR DRIVEWAY APPROACH TO TIE INTO. SEAL ALL AC PAVEMENT JOINTS WITH A HEAT—APPLIED RUBBERIZED SEALANT.

(#) KEYED NOTES:

- INSTALL CURB LINE SIDEWALK DRIVEWAY. SEE PWS DETAIL 526, SHEET C180 FOR ADDITIONAL INSTALLATION INFORMATION.
- 1A. INSTALL SETBACK SIDEWALK DRIVEWAY. SEE PWS DETAIL 525, SHEET C180 FOR ADDITIONAL INSTALLATION INFORMATION
- 2. NOT USED.
- 3. INSTALL STANDARD CURB AND GUTTER PER OSD RD700, SHEET C181.
- 4. INSTALL LOW PROFILE MOUNTABLE CURB PER PBOT DETAIL P-540, SHEET C186.
- 5. INSTALL TRANSITION FROM STANDARD CURB AND GUTTER TO LOW PROFILE MOUNTABLE CURB.
- 6. INSTALL PRIVATE DRIVEWAY PER DRIVEWAY PROFILE AND PAVEMENT SECTION.



NG & FORESTRY, LLC
MAN RD, STE 100
97062

COM

G · SURVEYING · NATURAL RESOURCES
PLANNING · LANDSCAPE ARCHITECTIURE

REA IMPROV

RIVEWAY DETAILS

DESIGNED BY:

DRAWN BY:

LAF

MANAGED BY:

CHECKED BY:

DATE: 06/07/2024

OREGON

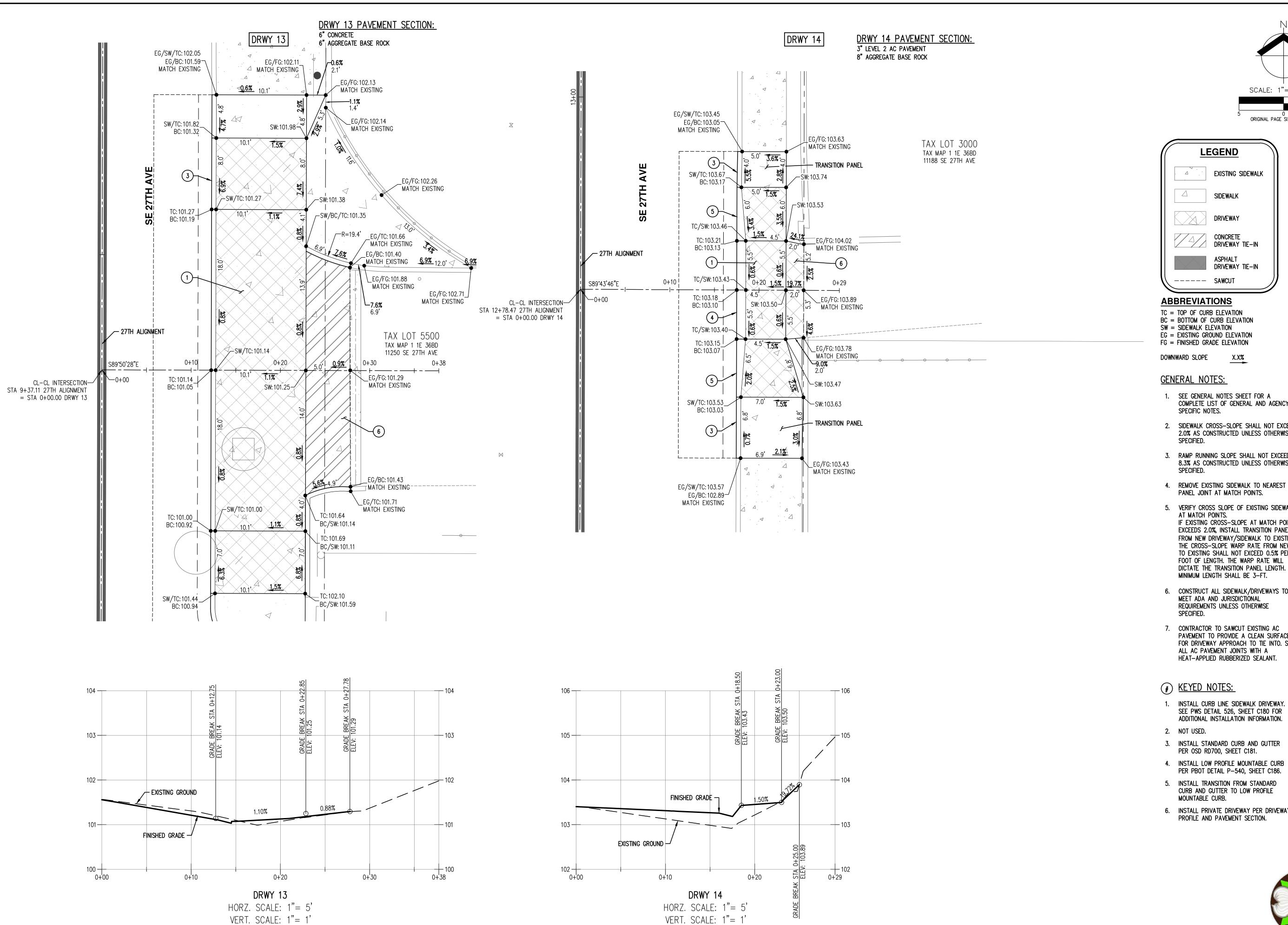
OREGON

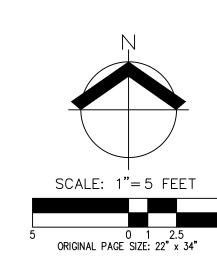
CHR 1 ST. M.

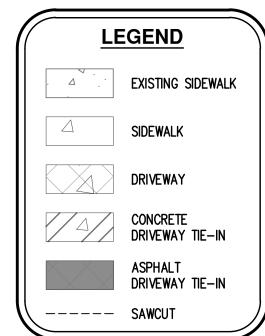
RENEWAL DATE: 12/31/25
EVISIONS

JOB NUMBER 8970

SHEET







BC = BOTTOM OF CURB ELEVATION SW = SIDEWALK ELEVATIONEG = EXISTING GROUND ELEVATION

- 1. SEE GENERAL NOTES SHEET FOR A COMPLETE LIST OF GENERAL AND AGENCY SPECIFIC NOTES.
- 2. SIDEWALK CROSS-SLOPE SHALL NOT EXCEED 2.0% AS CONSTRUCTED UNLESS OTHERWISE
- 3. RAMP RUNNING SLOPE SHALL NOT EXCEED 8.3% AS CONSTRUCTED UNLESS OTHERWISE
- PANEL JOINT AT MATCH POINTS.
- 5. VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS. IF EXISTING CROSS-SLOPE AT MATCH POINT EXCEEDS 2.0%, INSTALL TRANSITION PANEL FROM NEW DRIVEWAY/SIDEWALK TO EXISTING THE CROSS-SLOPE WARP RATE FROM NEW TO EXISTING SHALL NOT EXCEED 0.5% PER FOOT OF LENGTH. THE WARP RATE WILL DICTATE THE TRANSITION PANEL LENGTH.
- 6. CONSTRUCT ALL SIDEWALK/DRIVEWAYS TO MEET ADA AND JURISDICTIONAL REQUIREMENTS UNLESS OTHERWISE
- 7. CONTRACTOR TO SAWCUT EXISTING AC PAVEMENT TO PROVIDE A CLEAN SURFACE FOR DRIVEWAY APPROACH TO TIE INTO. SEAL ALL AC PAVEMENT JOINTS WITH A HEAT-APPLIED RUBBERIZED SEALANT.

(#) KEYED NOTES:

- 1. INSTALL CURB LINE SIDEWALK DRIVEWAY. SEE PWS DETAIL 526, SHEET C180 FOR ADDITIONAL INSTALLATION INFORMATION.
- 3. INSTALL STANDARD CURB AND GUTTER
- 4. INSTALL LOW PROFILE MOUNTABLE CURB PER PBOT DETAIL P-540, SHEET C186.
- 5. INSTALL TRANSITION FROM STANDARD CURB AND GUTTER TO LOW PROFILE
- 6. INSTALL PRIVATE DRIVEWAY PER DRIVEWAY

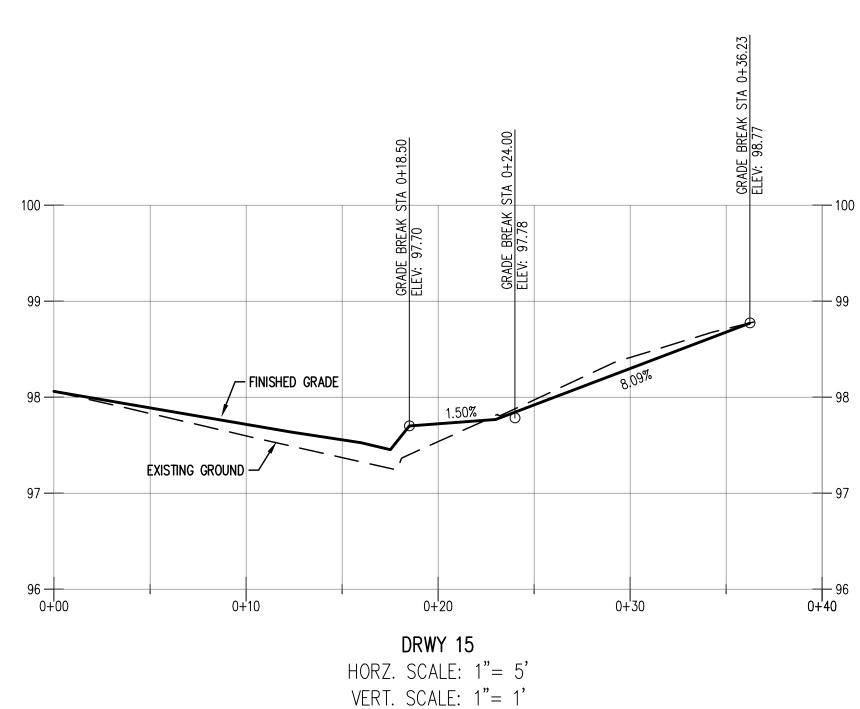


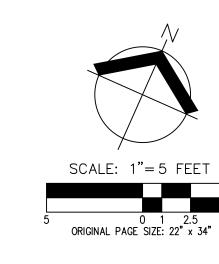
4 4 RIVE

DATE: 06/07/2024 RENEWAL DATE: 12/31/25

JOB NUMBER

SHEET C176





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4

4

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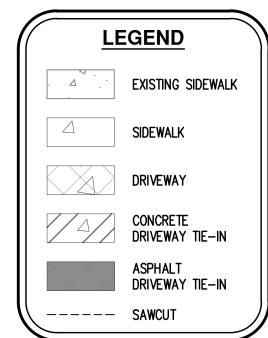
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DATE: 06/07/2024

RENEWAL DATE: 12/31/25

JOB NUMBER

SHEET



ABBREVIATIONS

TC = TOP OF CURB ELEVATIONBC = BOTTOM OF CURB ELEVATION

SW = SIDEWALK ELEVATIONEG = EXISTING GROUND ELEVATIONFG = FINISHED GRADE ELEVATION

DOWNWARD SLOPE

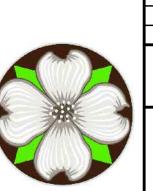
GENERAL NOTES:

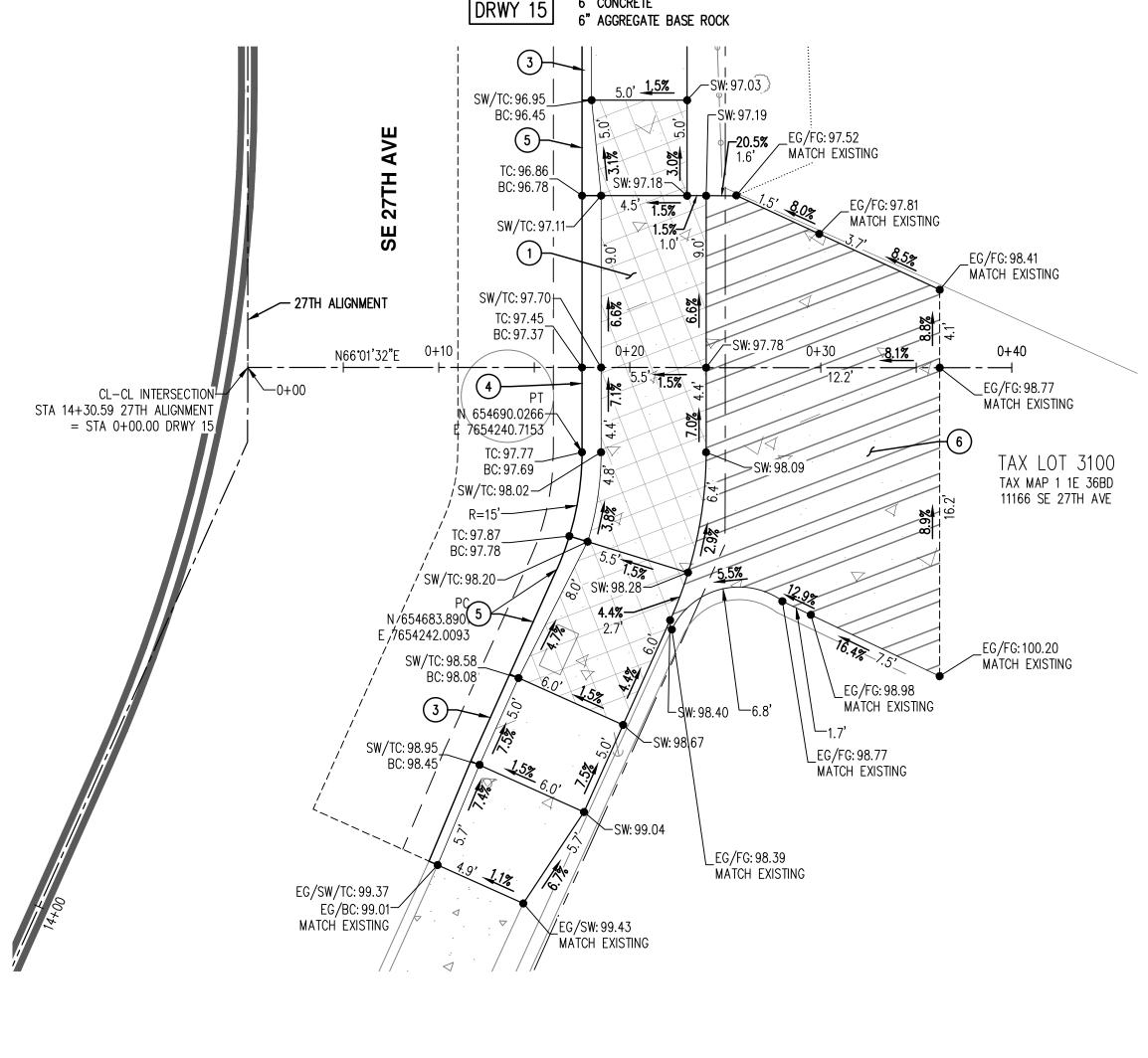
- 1. SEE GENERAL NOTES SHEET FOR A COMPLETE LIST OF GENERAL AND AGENCY SPECIFIC NOTES.
- 2. SIDEWALK CROSS-SLOPE SHALL NOT EXCEED 2.0% AS CONSTRUCTED UNLESS OTHERWISE SPECIFIED.
- 3. RAMP RUNNING SLOPE SHALL NOT EXCEED 8.3% AS CONSTRUCTED UNLESS OTHERWISE SPECIFIED.
- 4. REMOVE EXISTING SIDEWALK TO NEAREST PANEL JOINT AT MATCH POINTS.
- 5. VERIFY CROSS SLOPE OF EXISTING SIDEWALK AT MATCH POINTS. IF EXISTING CROSS-SLOPE AT MATCH POINT EXCEEDS 2.0%, INSTALL TRANSITION PANEL FROM NEW DRIVEWAY/SIDEWALK TO EXISTING. THE CROSS-SLOPE WARP RATE FROM NEW TO EXISTING SHALL NOT EXCEED 0.5% PER FOOT OF LENGTH. THE WARP RATE WILL DICTATE THE TRANSITION PANEL LENGTH. MINIMUM LENGTH SHALL BE 3-FT.
- 6. CONSTRUCT ALL SIDEWALK/DRIVEWAYS TO MEET ADA AND JURISDICTIONAL REQUIREMENTS UNLESS OTHERWISE
- 7. CONTRACTOR TO SAWCUT EXISTING AC PAVEMENT TO PROVIDE A CLEAN SURFACE FOR DRIVEWAY APPROACH TO TIE INTO. SEAL ALL AC PAVEMENT JOINTS WITH A HEAT-APPLIED RUBBERIZED SEALANT.

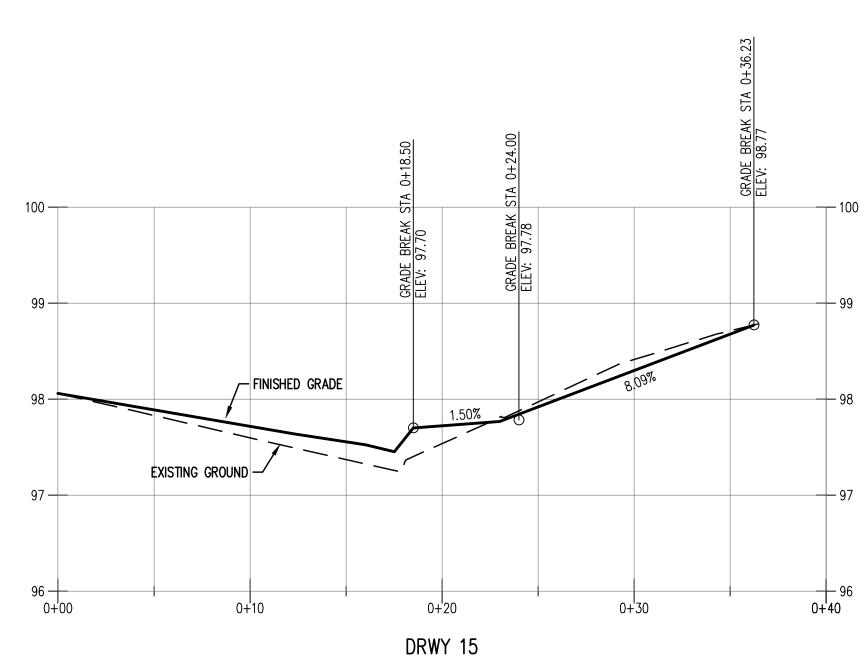
KEYED NOTES:

- 1. INSTALL CURB LINE SIDEWALK DRIVEWAY. SEE PWS DETAIL 526, SHEET C180 FOR ADDITIONAL INSTALLATION INFORMATION.
- NOT USED.
- 3. INSTALL STANDARD CURB AND GUTTER PER OSD RD700, SHEET C181.
- 4. INSTALL LOW PROFILE MOUNTABLE CURB PER PBOT DETAIL P-540, SHEET C186.
- 5. INSTALL TRANSITION FROM STANDARD CURB AND GUTTER TO LOW PROFILE MOUNTABLE CURB.
- 6. INSTALL PRIVATE DRIVEWAY PER DRIVEWAY PROFILE AND PAVEMENT SECTION.

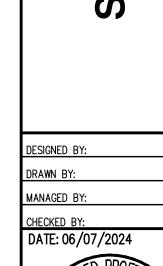


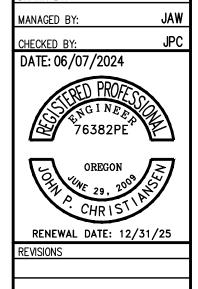




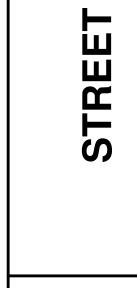


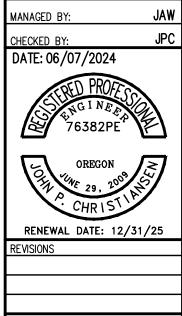
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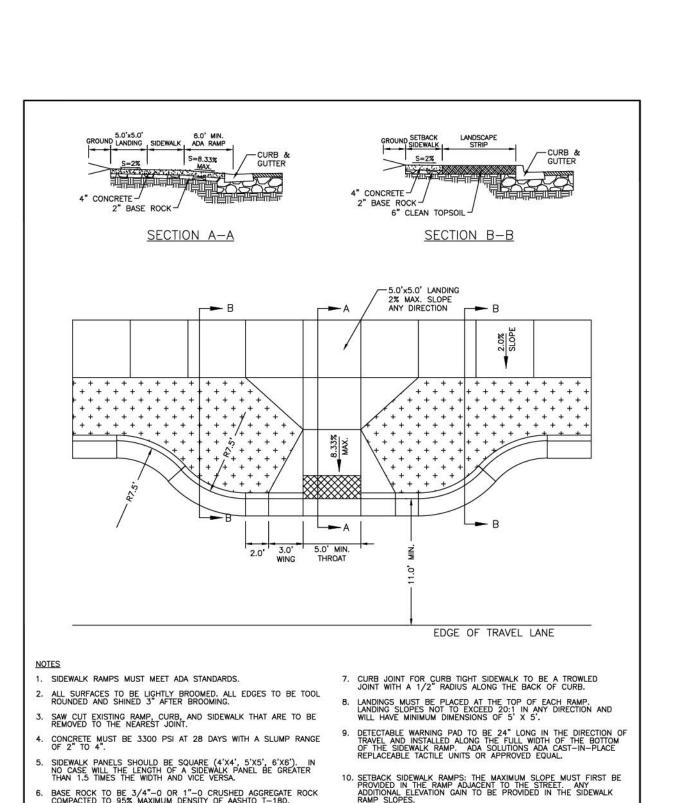






JOB NUMBER

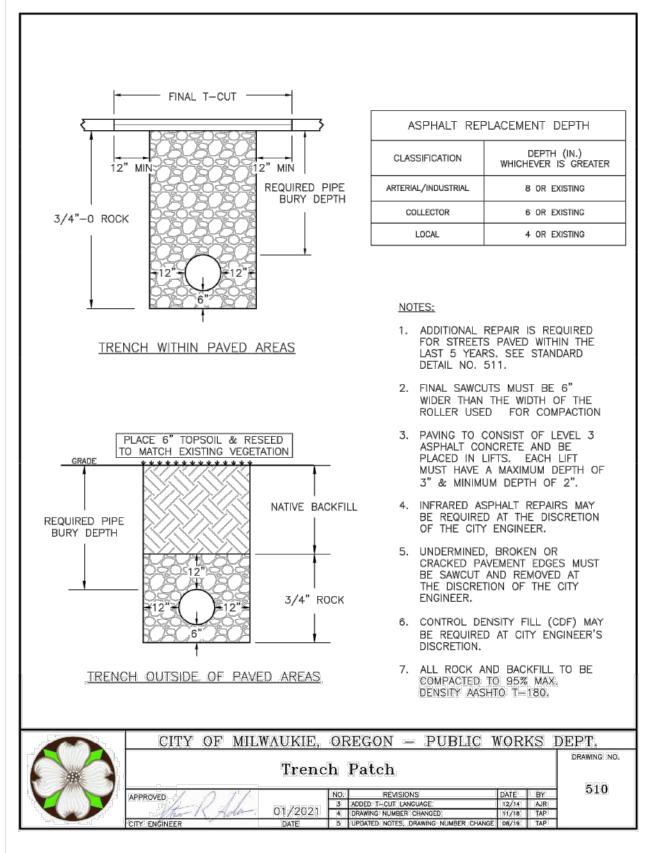
SHEET C180

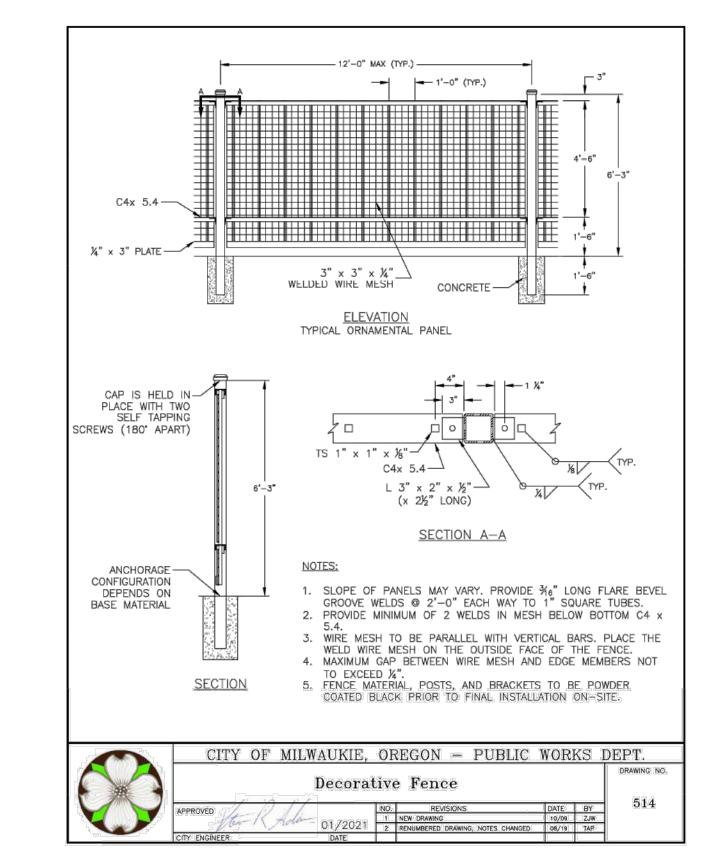


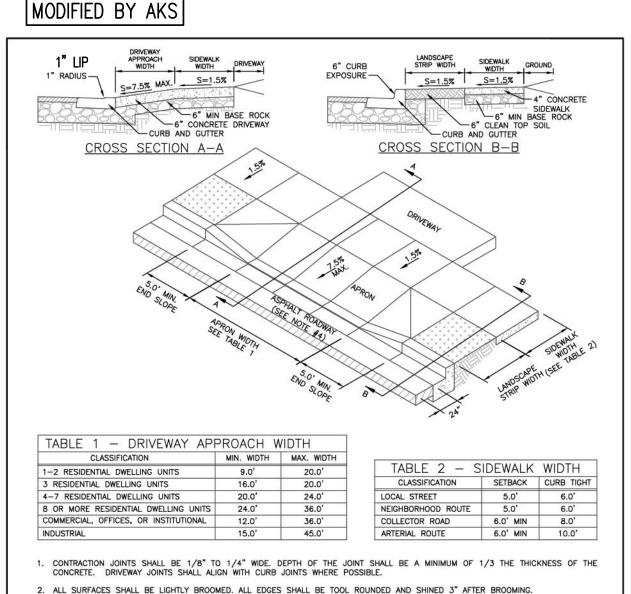
CITY OF MILWAUKIE, OREGON - PUBLIC WORKS DEPT

DRAWING NO.

502







2" BASE ROCK

6" CLEAN TOPSOIL

CURB JOINT FOR CURB TIGHT SIDEWALK TO BE A TROWLED JOINT WITH A 1/2" RADIUS ALONG THE BACK OF CURB.

SECTION B-B

501

- 2. ALL SURFACES SHALL BE LIGHTLY BROOMED. ALL EDGES SHALL BE TOOL ROUNDED AND SHINED 3" AFTER BROOMING.
- 3. SAW CUT EXISTING CURBS THAT ARE TO BE REMOVED TO THE NEAREST JOINT.

4" CONCRETE - 2" BASE ROCK

SECTION A-A

. SIDEWALK RAMPS MUST MEET ADA STANDARDS.

. ALL SURFACES TO BE LIGHTLY BROOMED. ALL EDGES TO BE TOOL ROUNDED AND SHINED 3" AFTER BROOMING.

SAW CUT EXISTING RAMP, CURB, AND SIDEWALK THAT ARE TO BE REMOVED TO THE NEAREST JOINT.

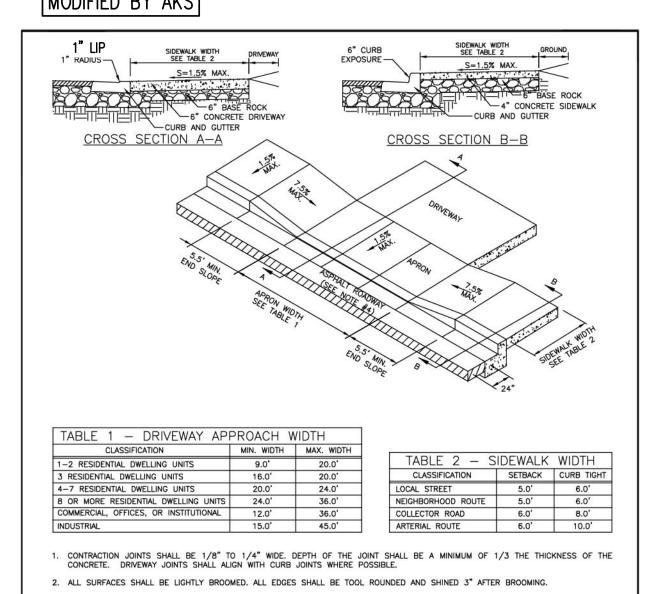
. CONCRETE MUST BE 3300 PSI AT 28 DAYS WITH A SLUMP RANGE OF 2" TO 4".

SIDEWALK PANELS SHOULD BE SQUARE (4'X4', 5'X5', 6'X6'). IN NO CASE WILL THE LENGTH OF A SIDEWALK PANEL BE GREATER THAN 1.5 TIMES THE WIDTH AND VICE VERSA.

- 4. EXISTING ASPHALT CONCRETE IN FRONT OF THE APPROACH SHALL BE SAW CUT ALONG A LINE PARALLEL TO THE CURB AT A MINIMUM DISTANCE OF 24" AWAY FROM THE FACE OF THE CURB AND REPLACED WITH HOT MIX ASPHALT CONCRETE WITH MINIMUM THICKNESS OF 4" OR MATCH EXISTING, WHICHEVER IS GREATER. USE RUBBERIZED SEALANT AT ALL ASPHALT JOINTS
- 5. CONCRETE SHALL BE 3300 PSI AT 28 DAYS WITH A SLUMP RANGE OF 2" TO 4". 6. CURB JOINT SHALL BE A TROWLED JOINT WITH A MINIMUM 1/2" RADIUS ALONG THE BACK OF CURB.
- 7. CONCRETE PANELS SHOULD BE SQUARE (4'X4', 5'X5', 6'X6'). IN NO CASE SHALL THE LENGTH OF A CONCRETE PANEL BE GREATER THAN 1.5 TIMES THE WIDTH AND VICE VERSA.
- 8. COMMERCIAL, INDUSTRIAL, AND PUBLIC USE DRIVEWAY APRONS AND ADJACENT SIDEWALK REQUIRE #4 REBAR, 12" ON-CENTER IN EACH DIRECTION. THE APRON REBAR SHALL BE ADEQUATELY TIED TO THE CURB REBAR.

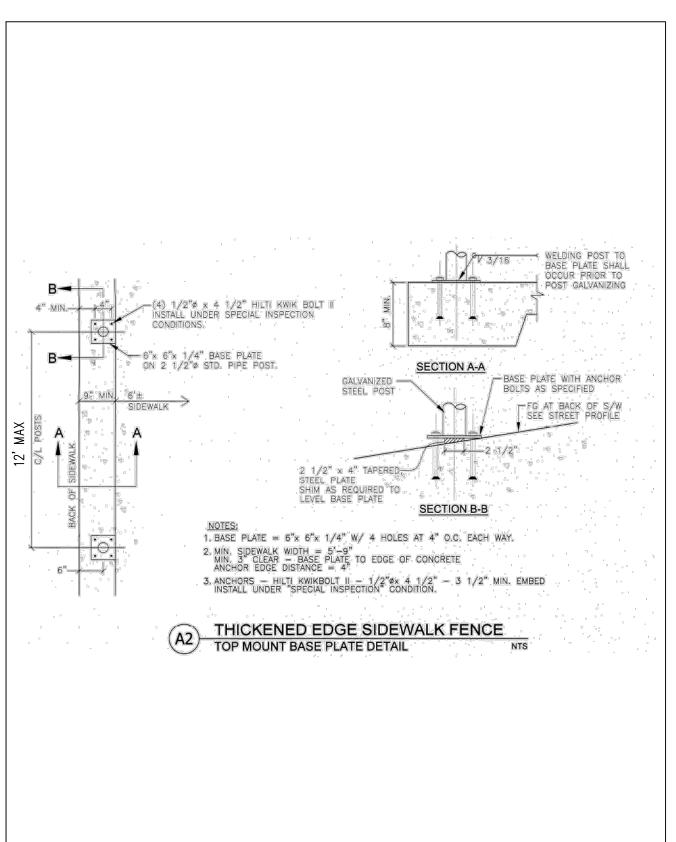
CITY C	F MILWAUKIE,	ORE	GON – PUBLI	C WOR	KS	DEPT.
	Set Back Dr	ivewa	y Approach			DRAWING NO.
					_	525
APPROVED /	011	NO.	REVISIONS	DATE	BY	
APPROVED	R Adu 01/2021	NO.	REVISIONS	DATE	BY	

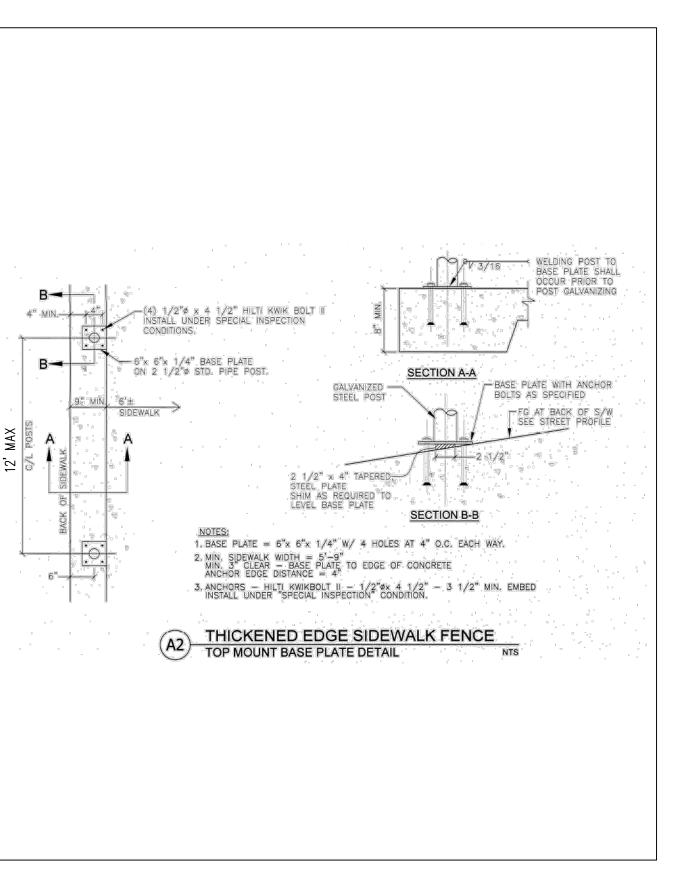


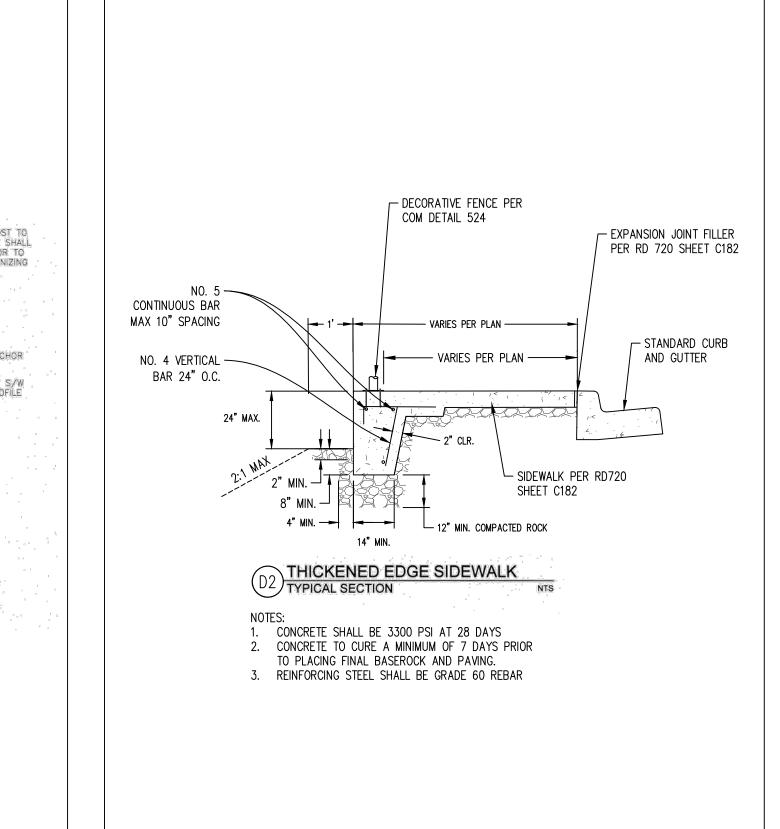


- 3. SAW CUT EXISTING CURBS THAT ARE TO BE REMOVED TO THE NEAREST JOINT.
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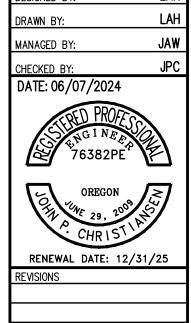
CITY	OF MILWAU	KIE,	OREGO)N –	PUBLIC	WOR	KS	DEPT.
	Curb Tight	t Dri	vewav	Appr	oach			DRAWING NO.
	0			11				500
APPROVED	0.17			REVISIONS		DATE	BY	526
APPROVED	-R Ada-01	/2021				DATE	BY	526





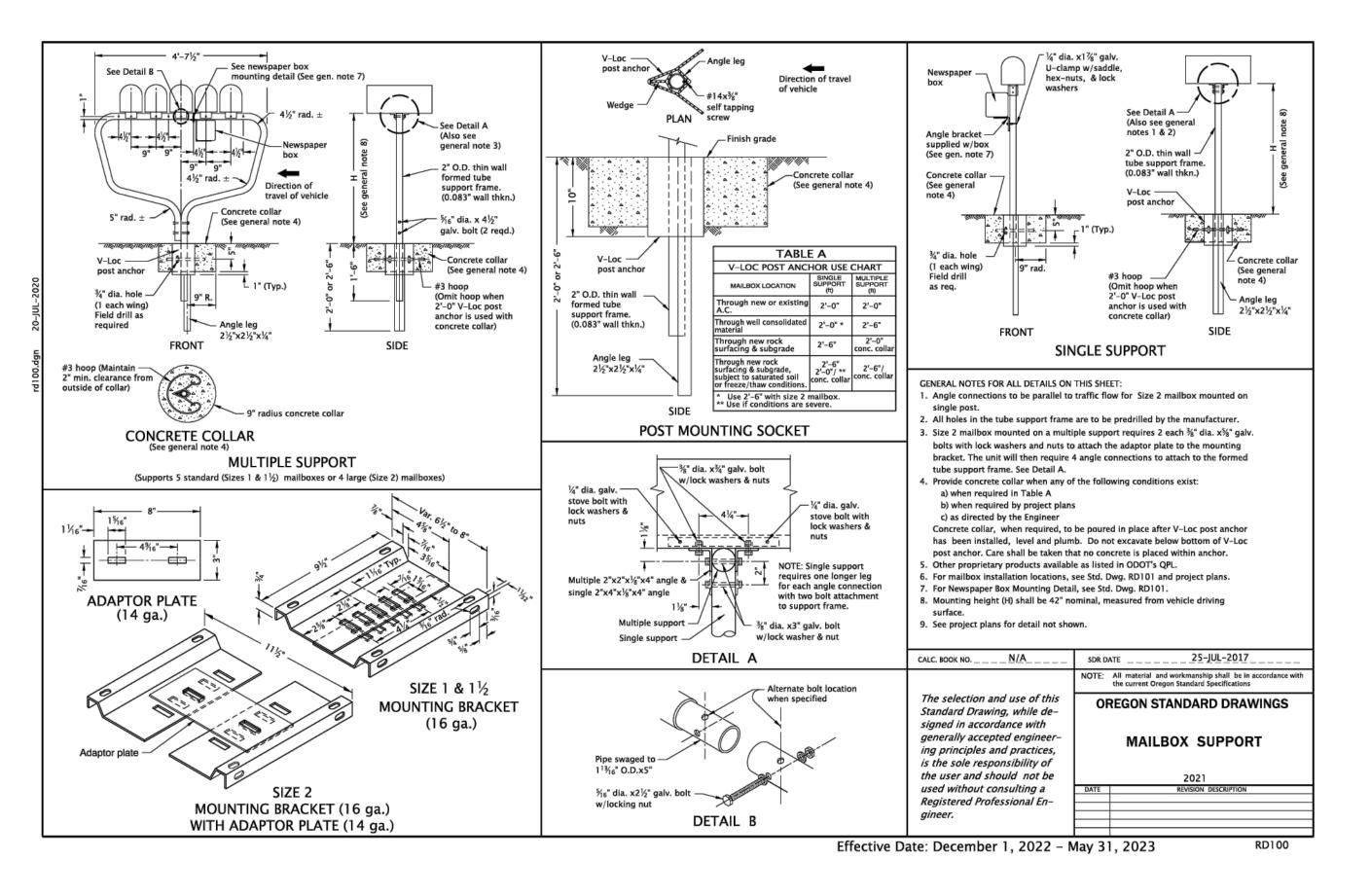


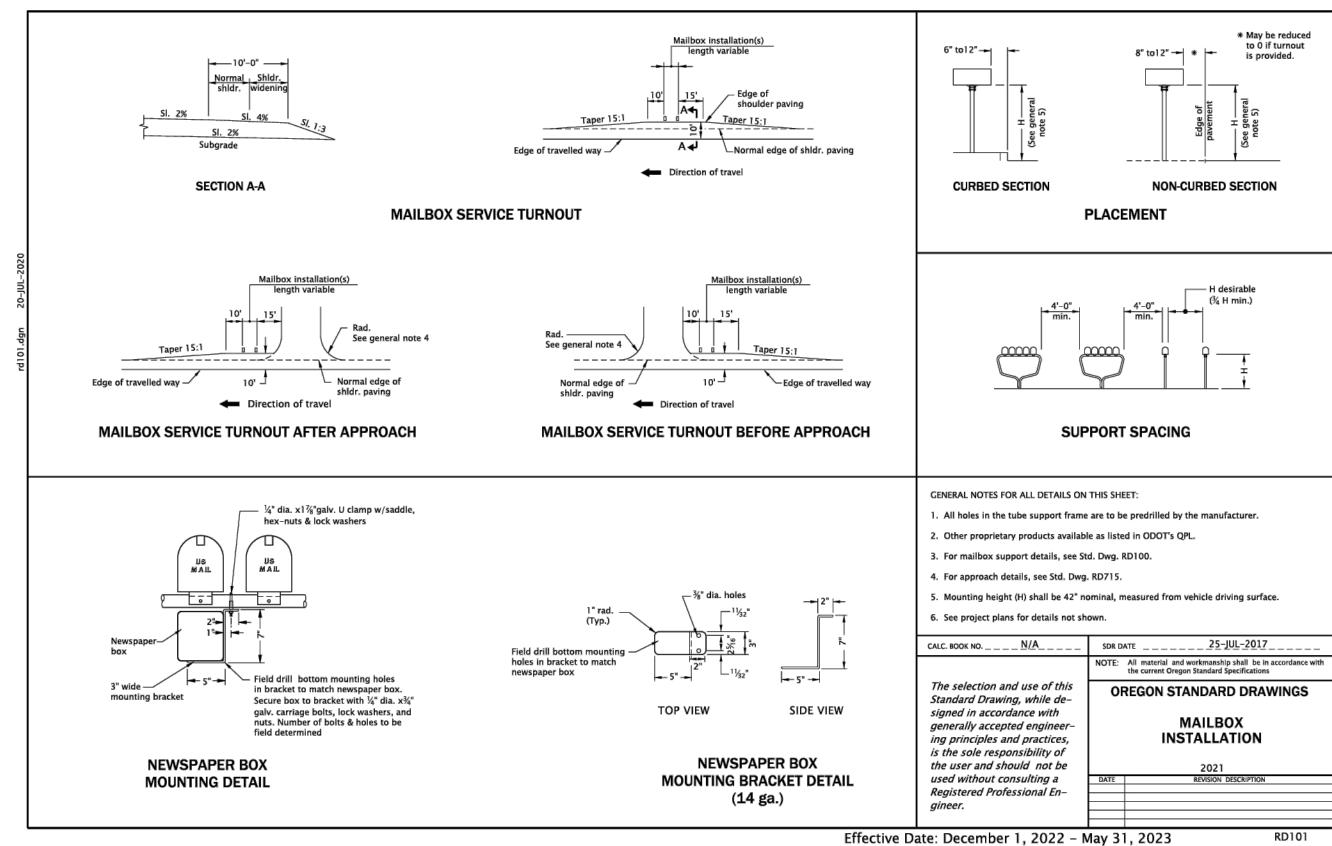
ORI



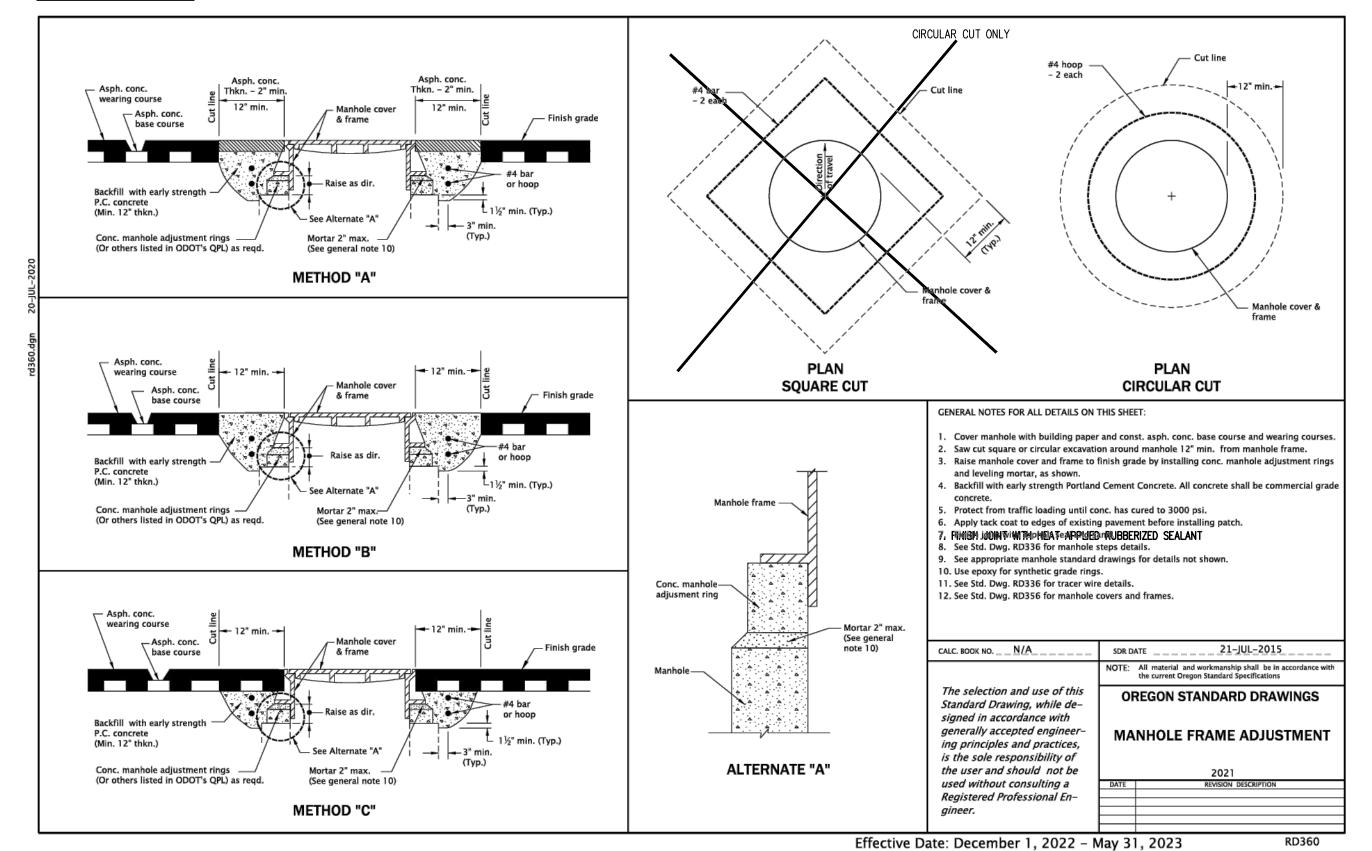
JOB NUMBER

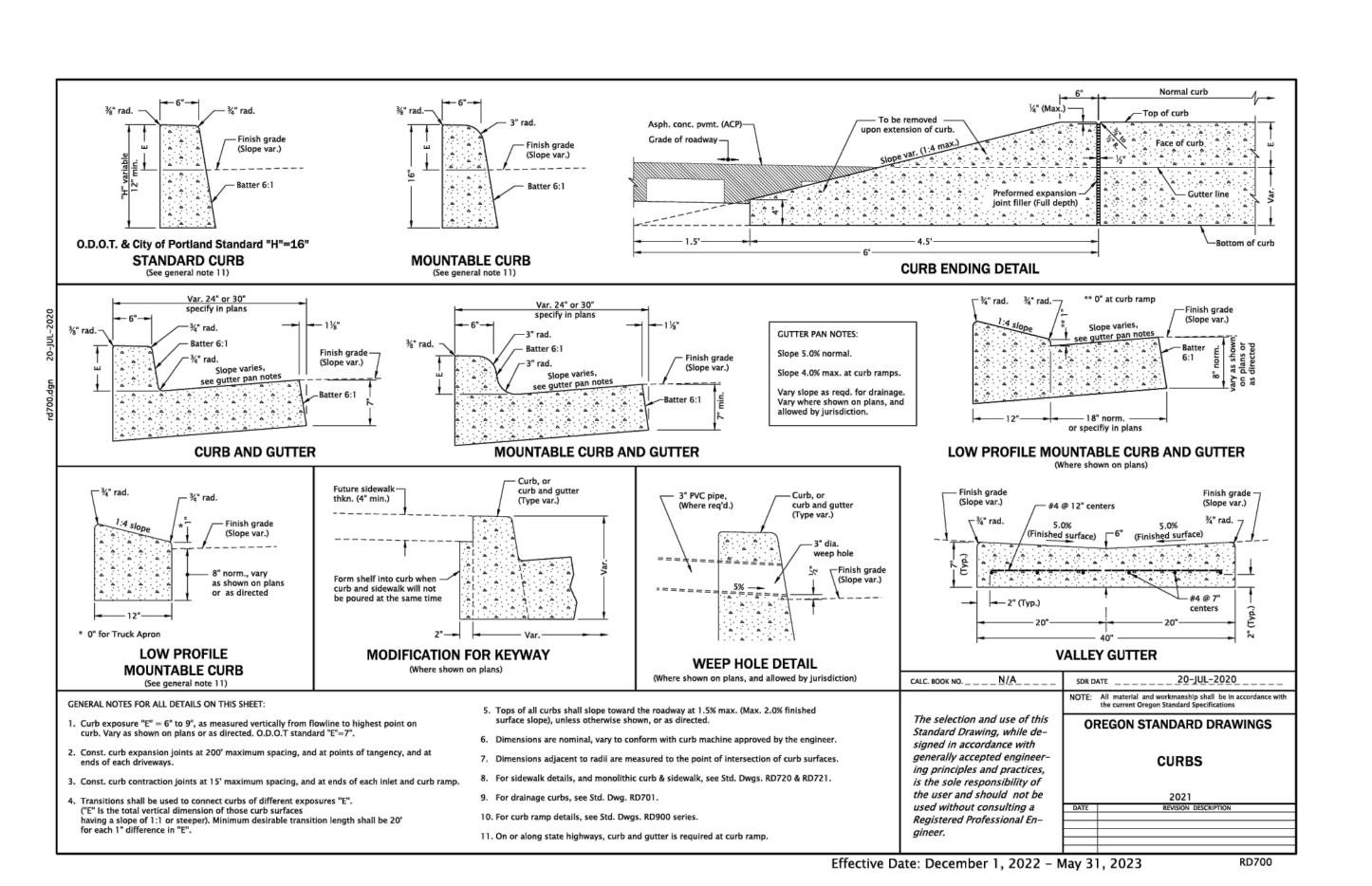
SHEET C181





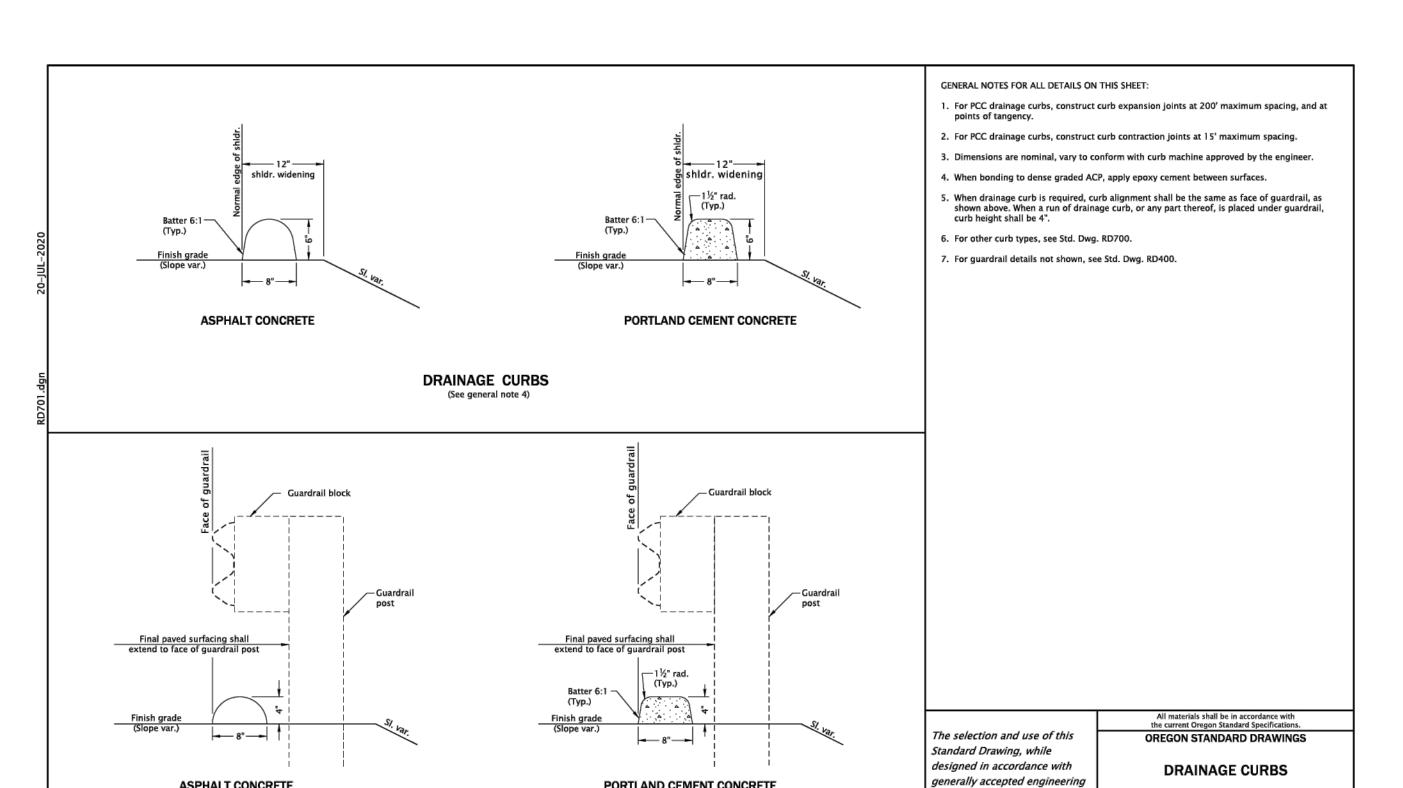
MODIFIED BY AKS





SHEET

C182



PORTLAND CEMENT CONCRETE

DRAINAGE CURBS UNDER GUARDRAIL

(See general note 4)

ASPHALT CONCRETE

Effective Date: June 1, 2023 - November 30, 2023

REVISION DESCRIPTION

___ N/A ___ SDR 20-JUL-2020 RD701

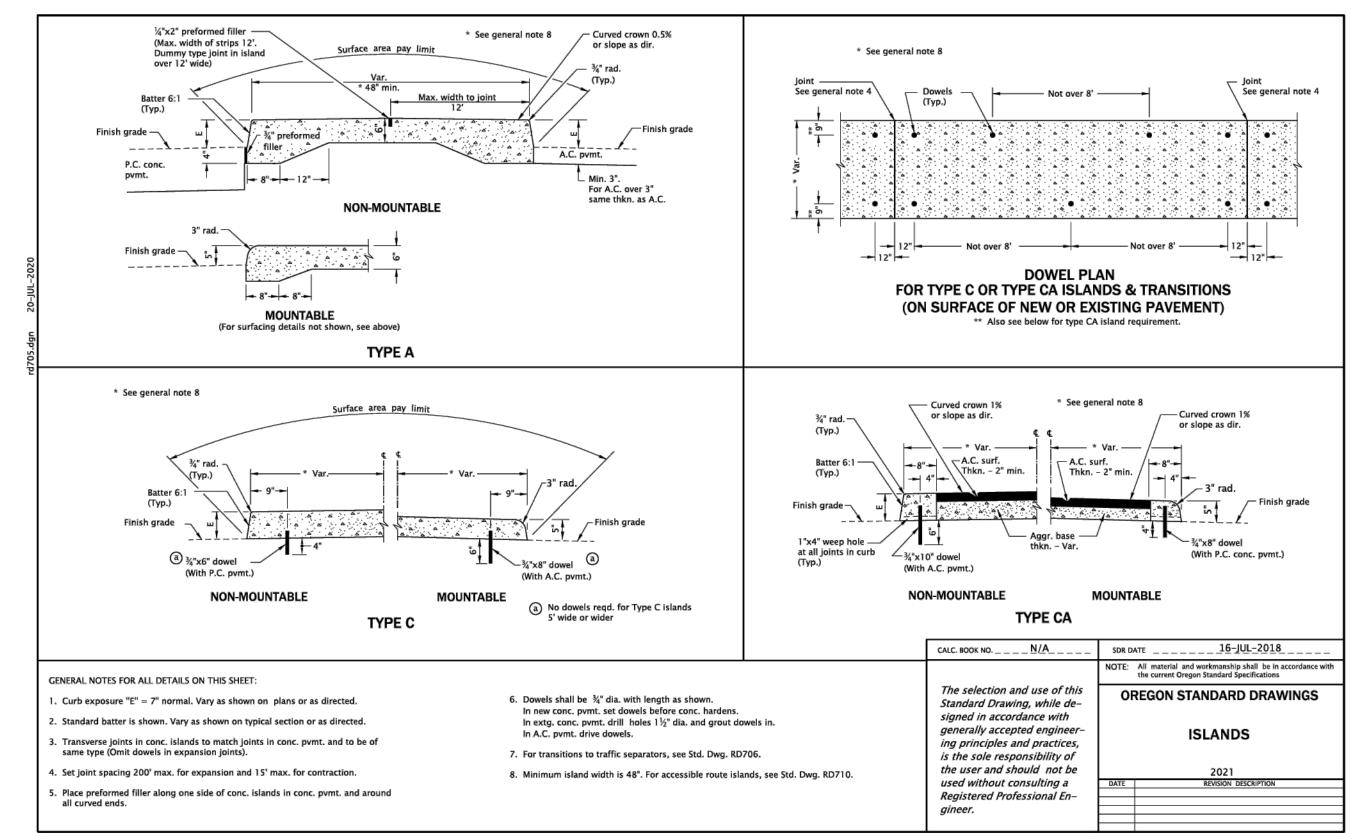
principles and practices, is the

sole responsibility of the user

and should not be used without

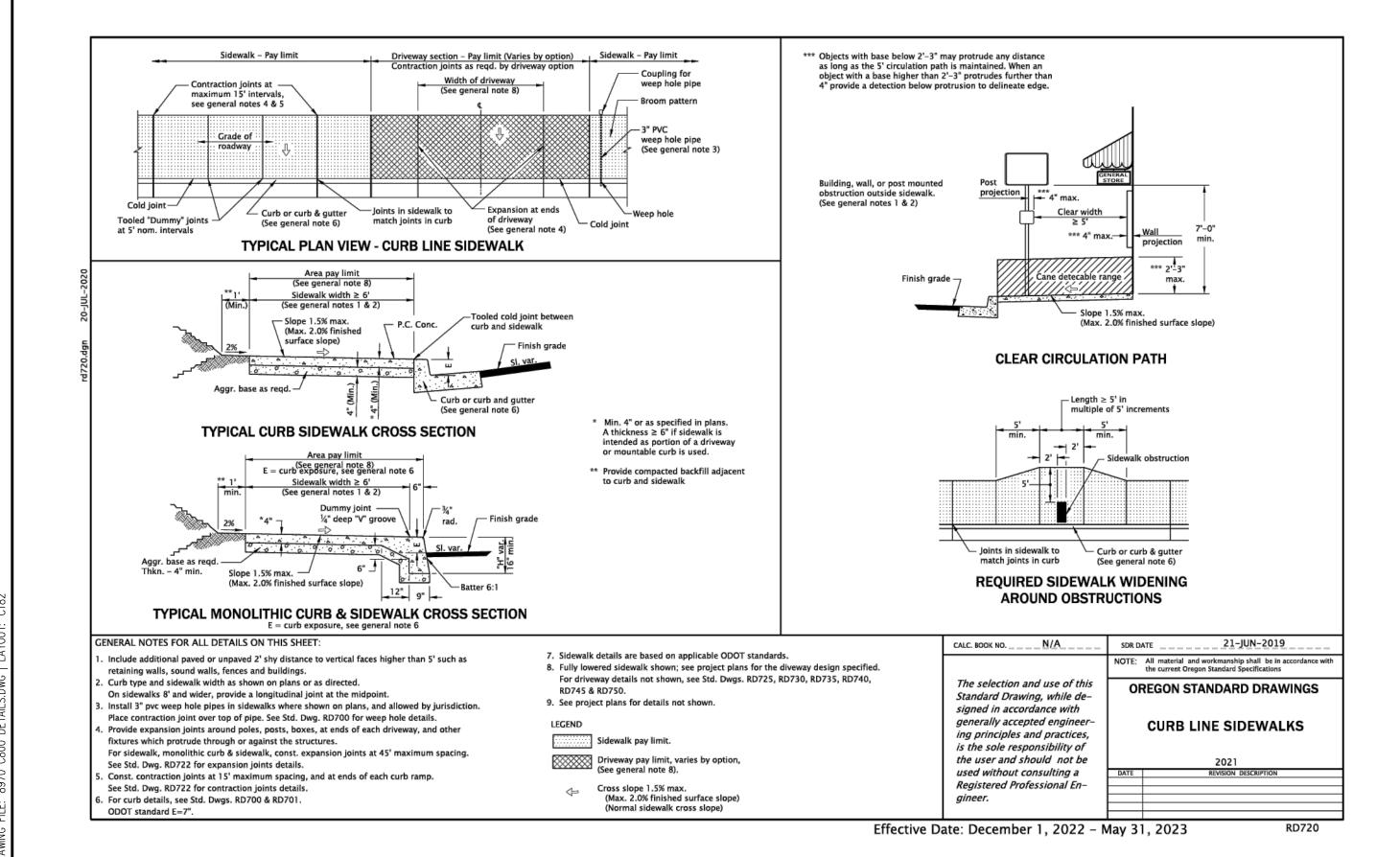
first consulting a Registered

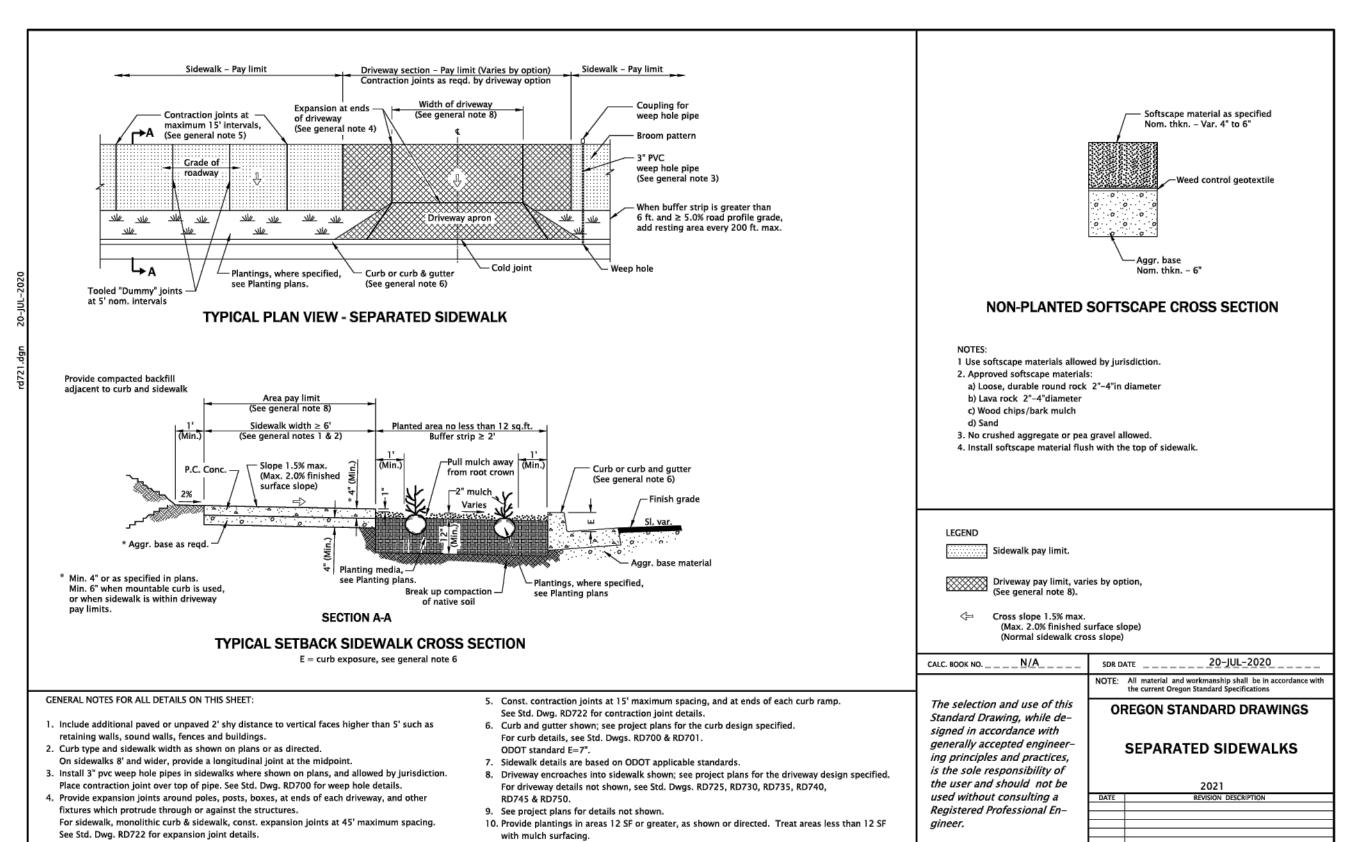
Professional Engineer.



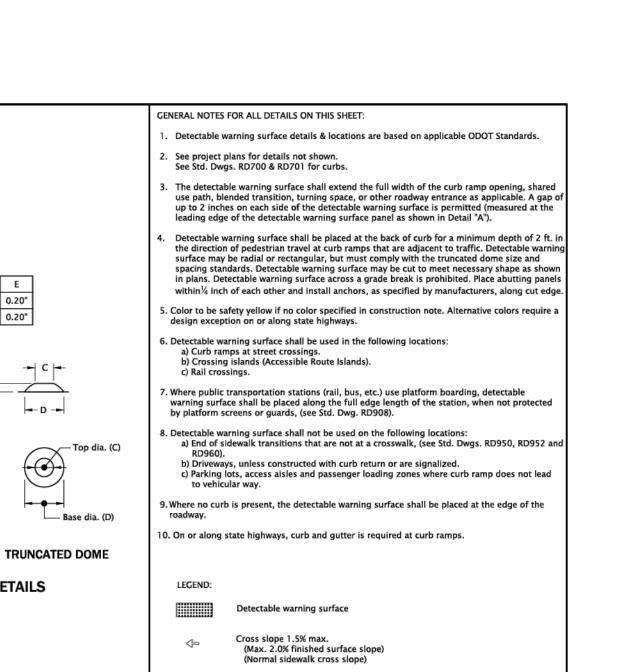
Effective Date: December 1, 2022 - May 31, 2023

Effective Date: December 1, 2022 - May 31, 2023





SHEET C183



Effective Date: December 1, 2022 - May 31, 2023

Running slope 7.5% max.

_ N/A_

The selection and use of this

Standard Drawing, while de-

signed in accordance with

generally accepted engineer-

ing principles and practices,

is the sole responsibility of

the user and should not be

used without consulting a

Registered Professional En-

(Max. 8.3% finished surface slope)

19-JULY-2021

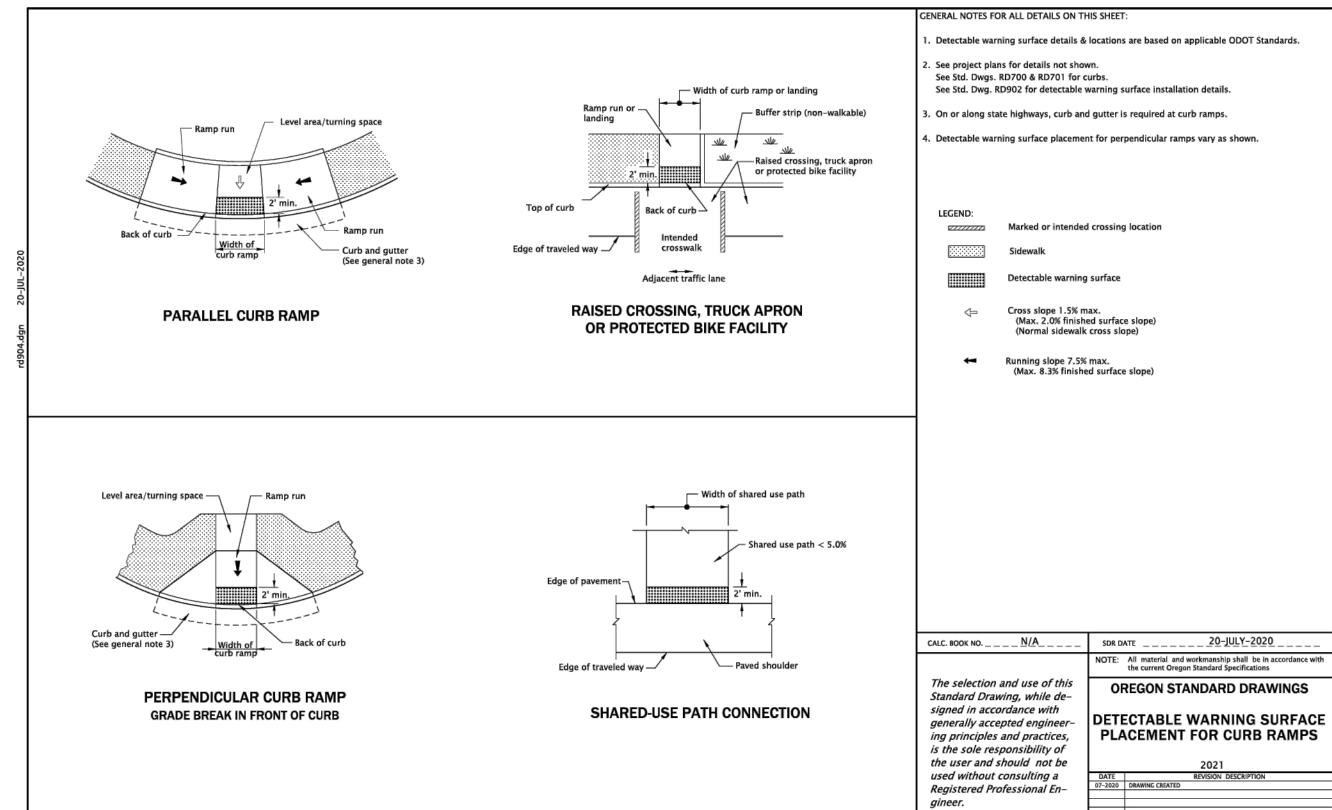
IOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

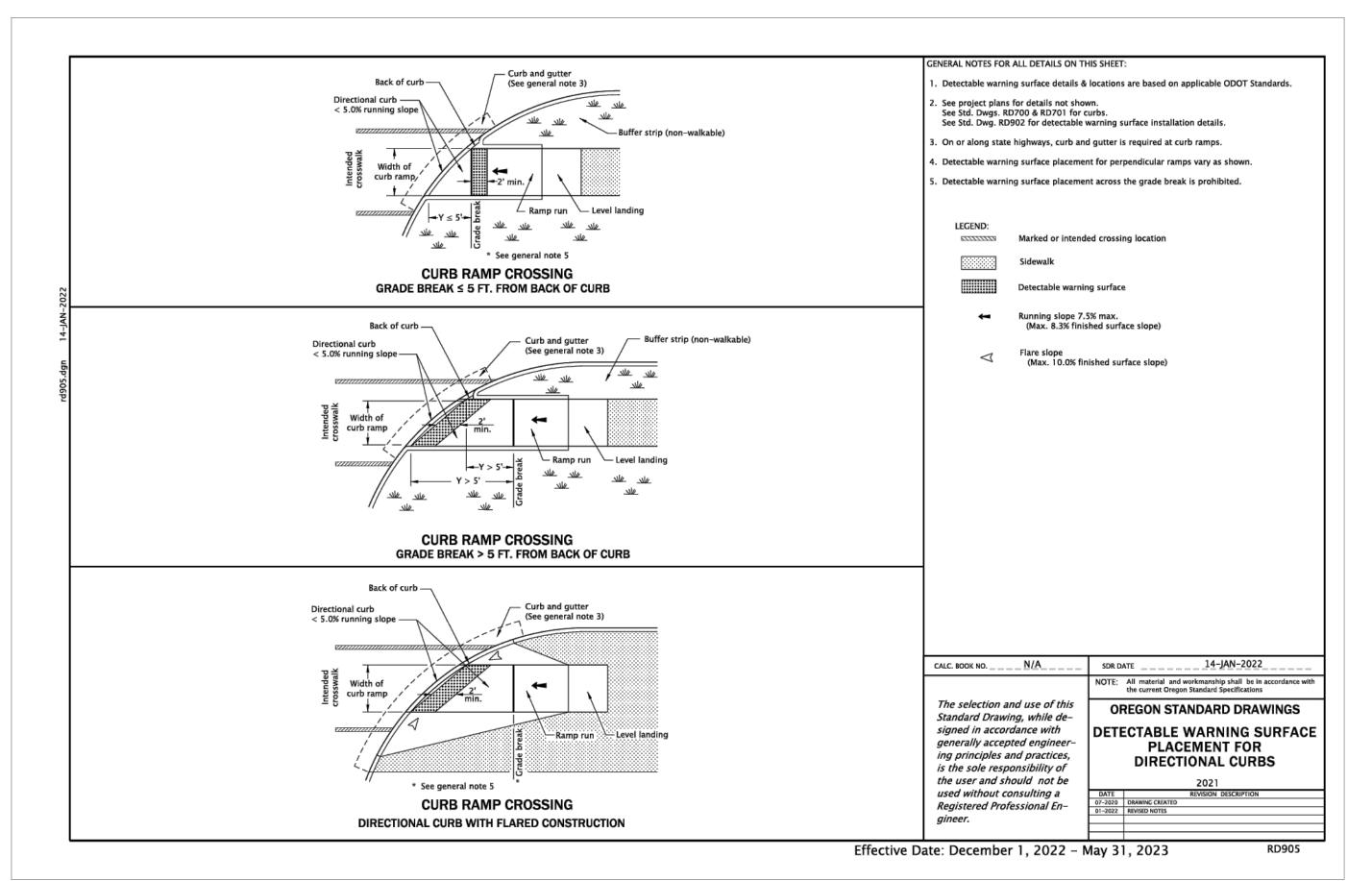
DETECTABLE WARNING SURFACE

DETAILS

2020 DRAWING CREATED
-2021 REVISED DETAIL AND NOTES



Effective Date: December 1, 2022 - May 31, 2023



A B C D E

TRUNCATED DOME DETAILS

MIN. | 1.60" | 0.65" | 0.45" | 0.90" | 0.20" |

MAX. 2.40" -- 0.91" 1.40" 0.20"

Curb ramp width - Var.

TRUNCATED DOME SPACING

Curb ramp, turning space,

Detectable warning surface

Match to width of curb ramp, Turning space, cut-through

DETECTABLE WARNING SURFACE DETAIL

Width of curb ramp

DETAIL "A"

Detectable warning -

(Typ. of all applications)

(Typ. of all applications)

See general notes 3, 4 & 5)

(See general notes 3, 4 & 5)

cut- through or sidewalk

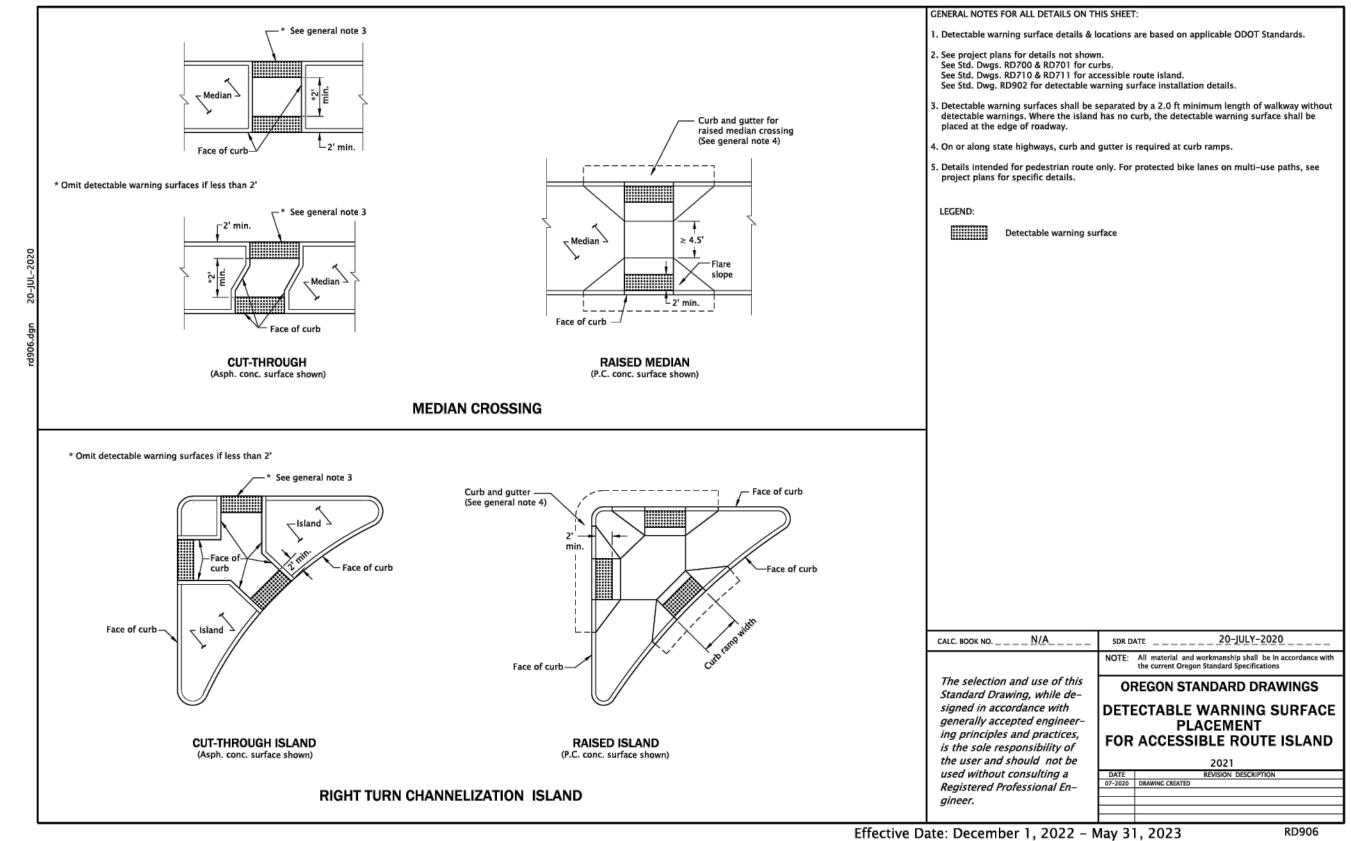
See Detail "/

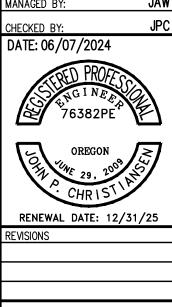
Back of curb -

Curb and gutter—

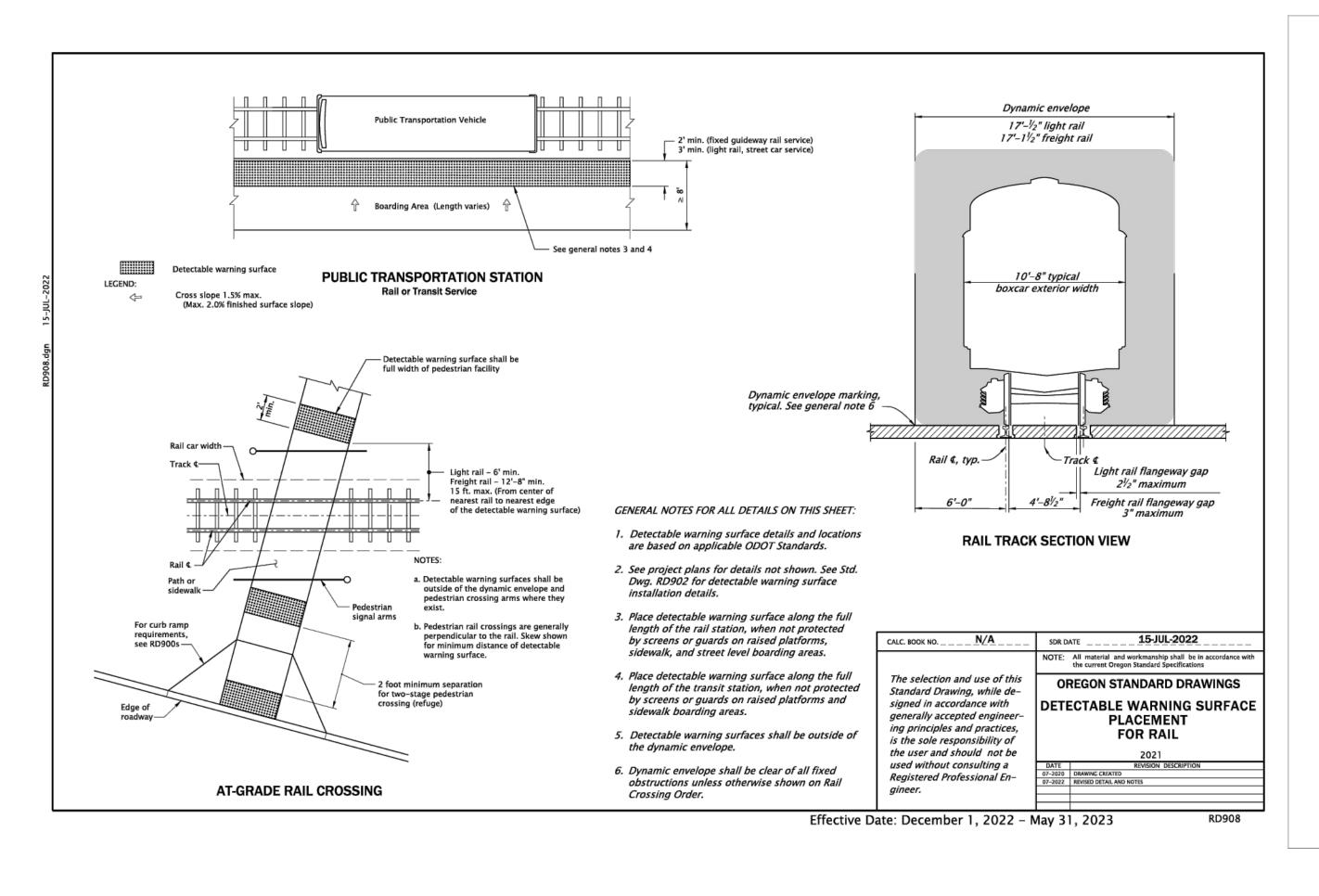
(See general note 10)

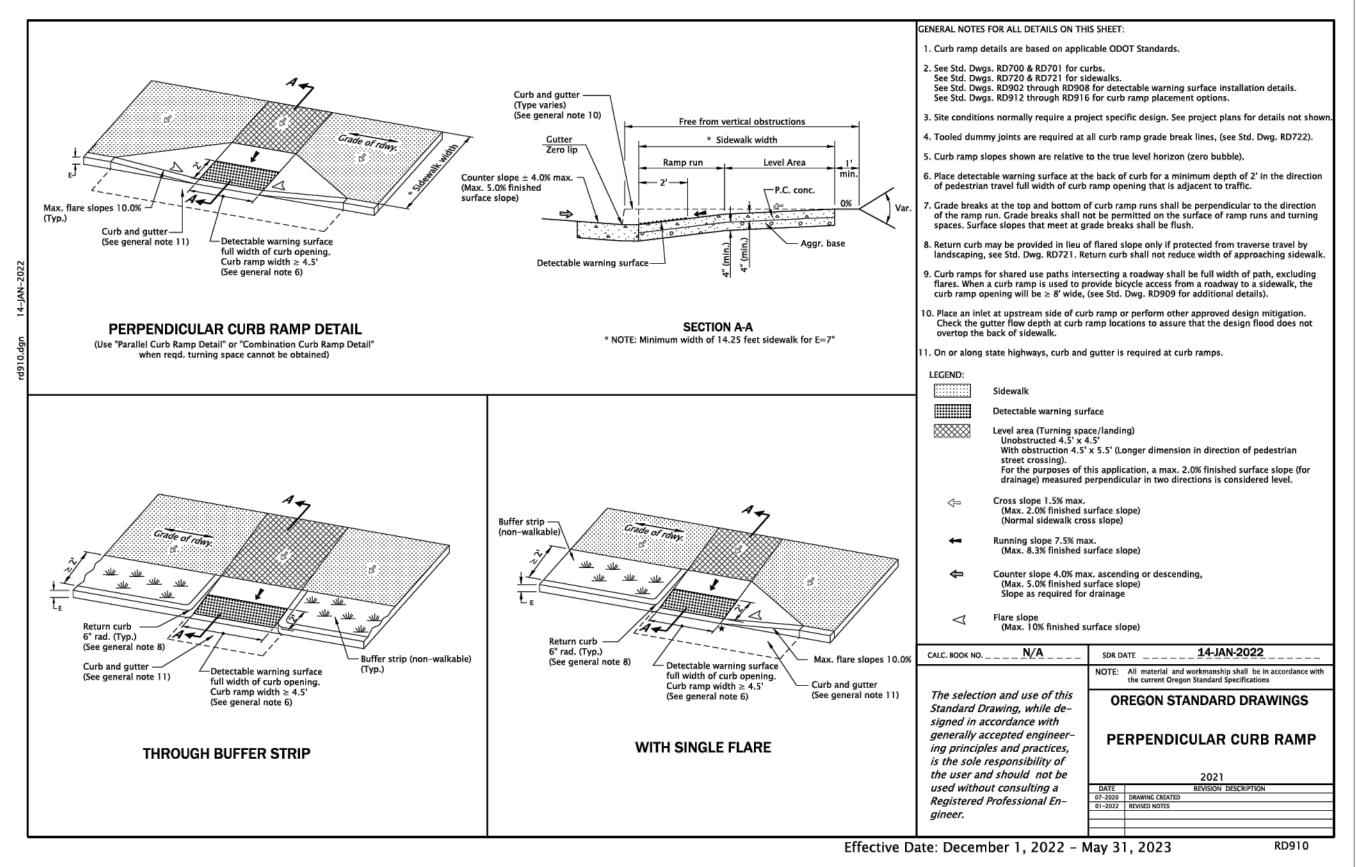
(See general note 3)

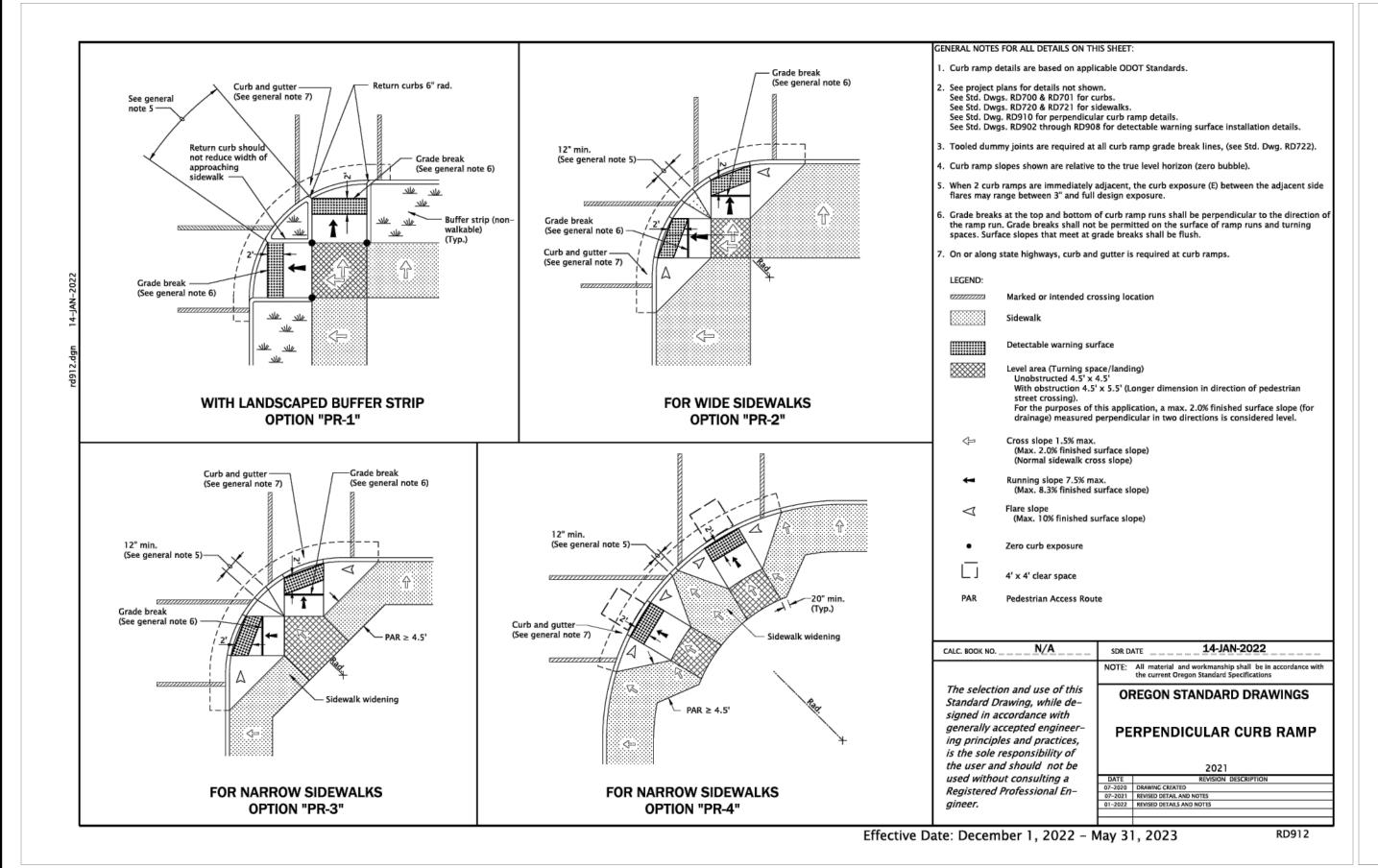


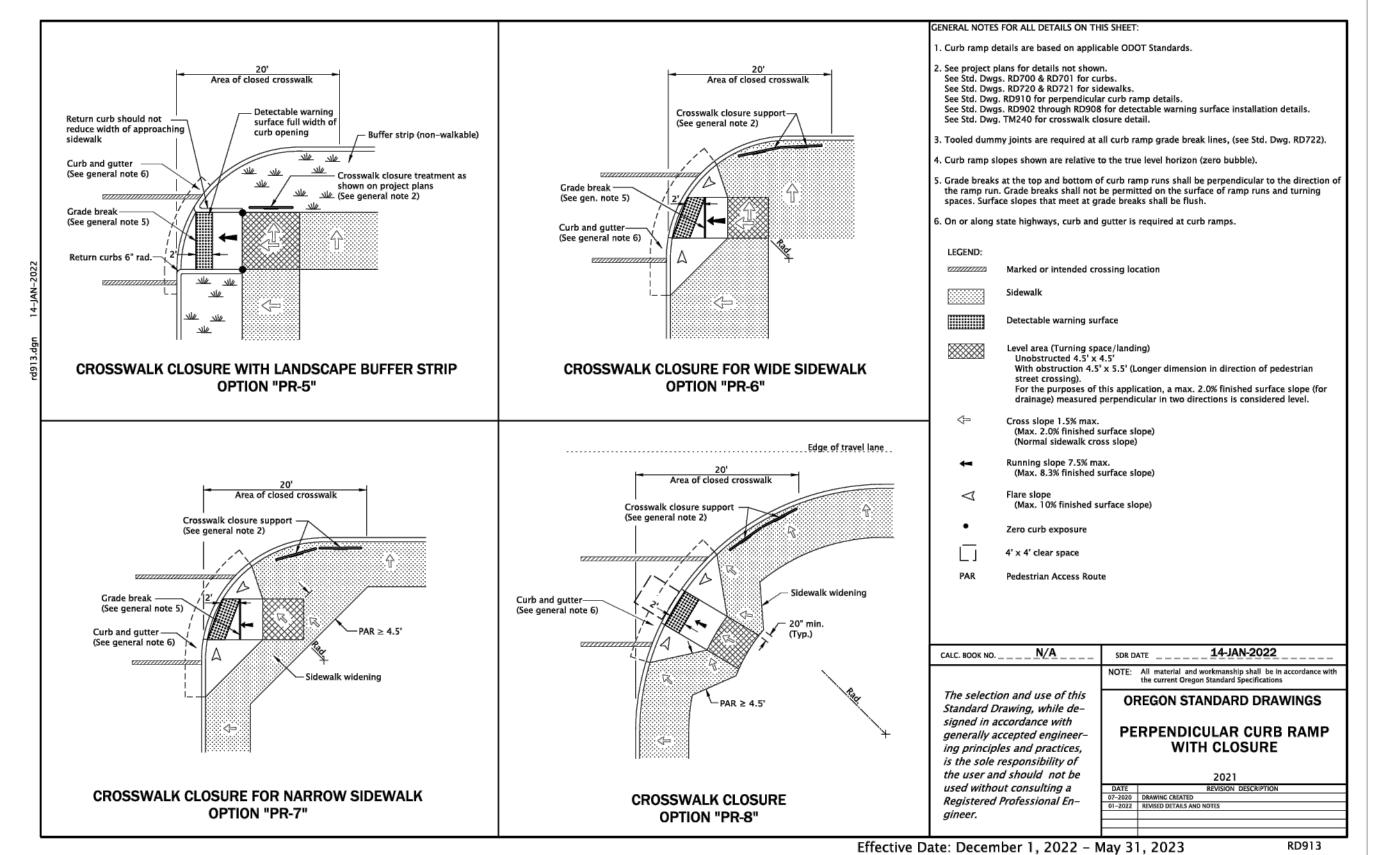


SHEET C184

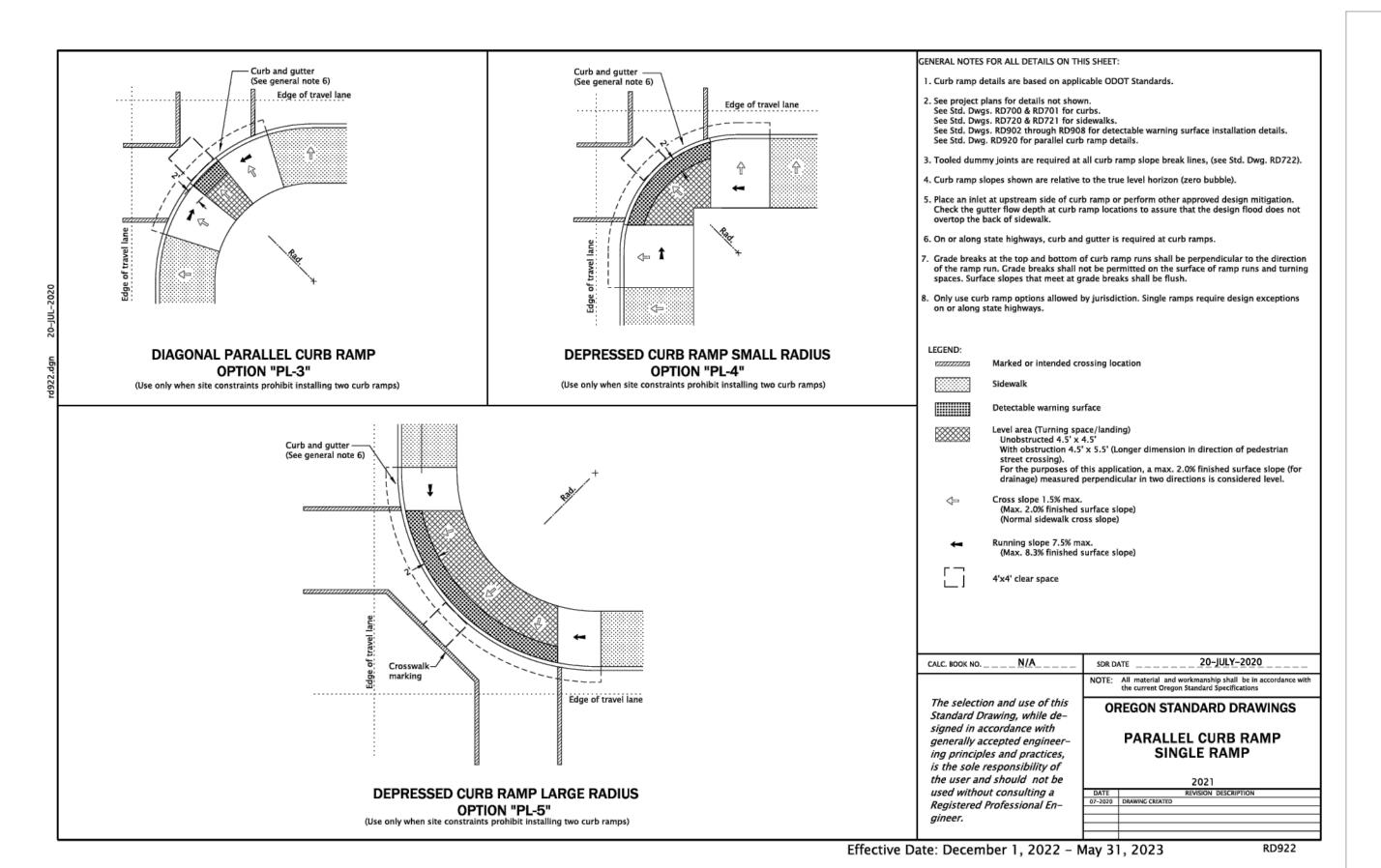


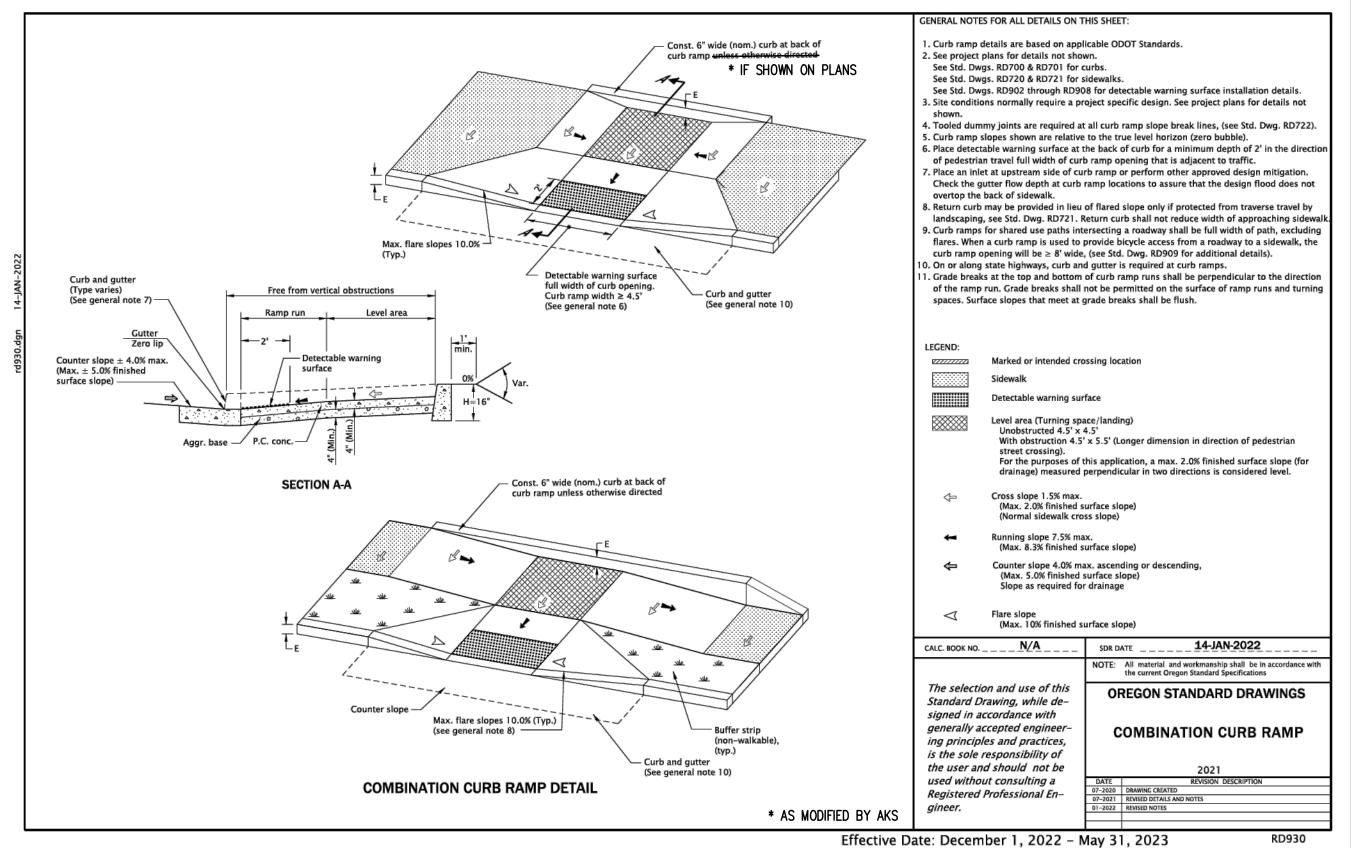


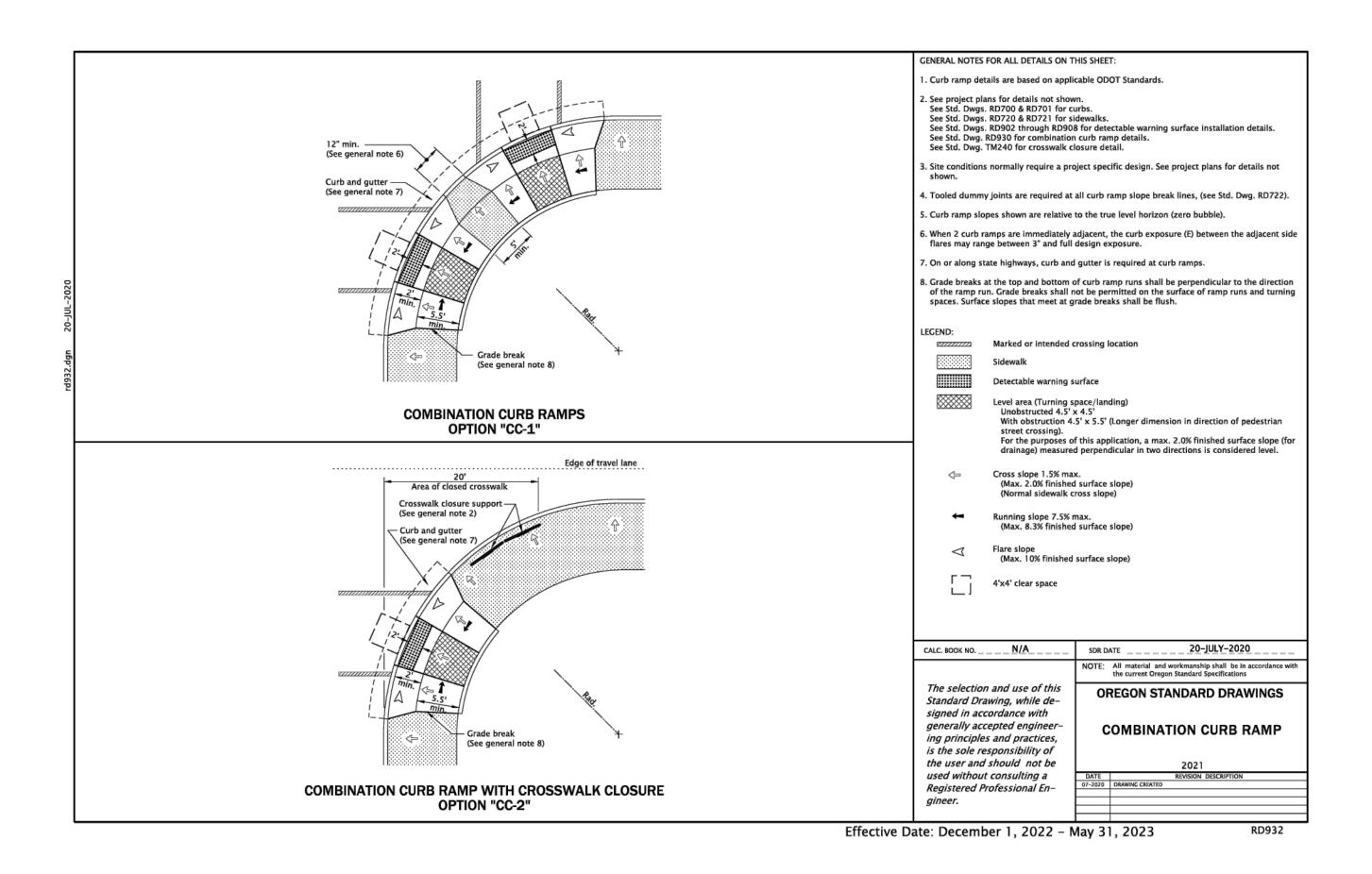


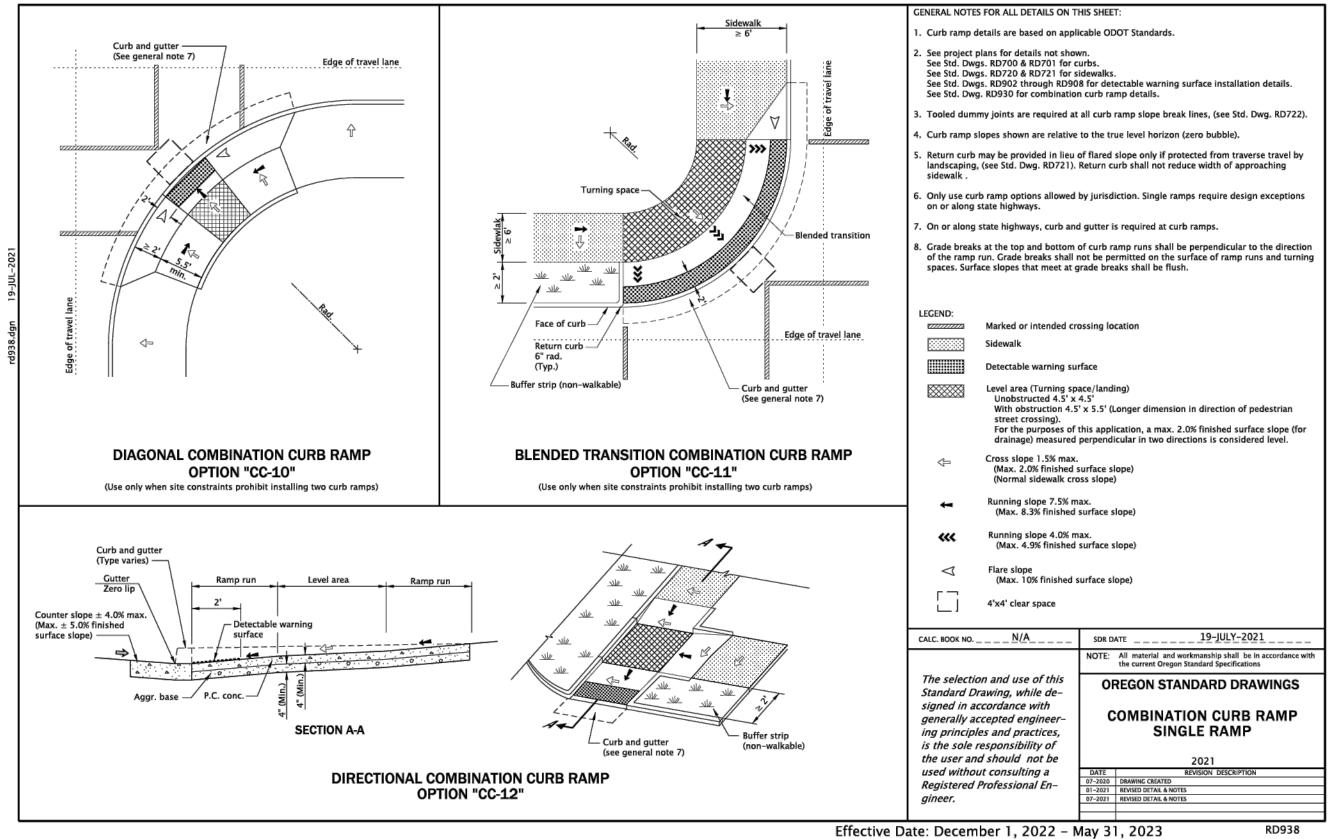


8970 SHEET







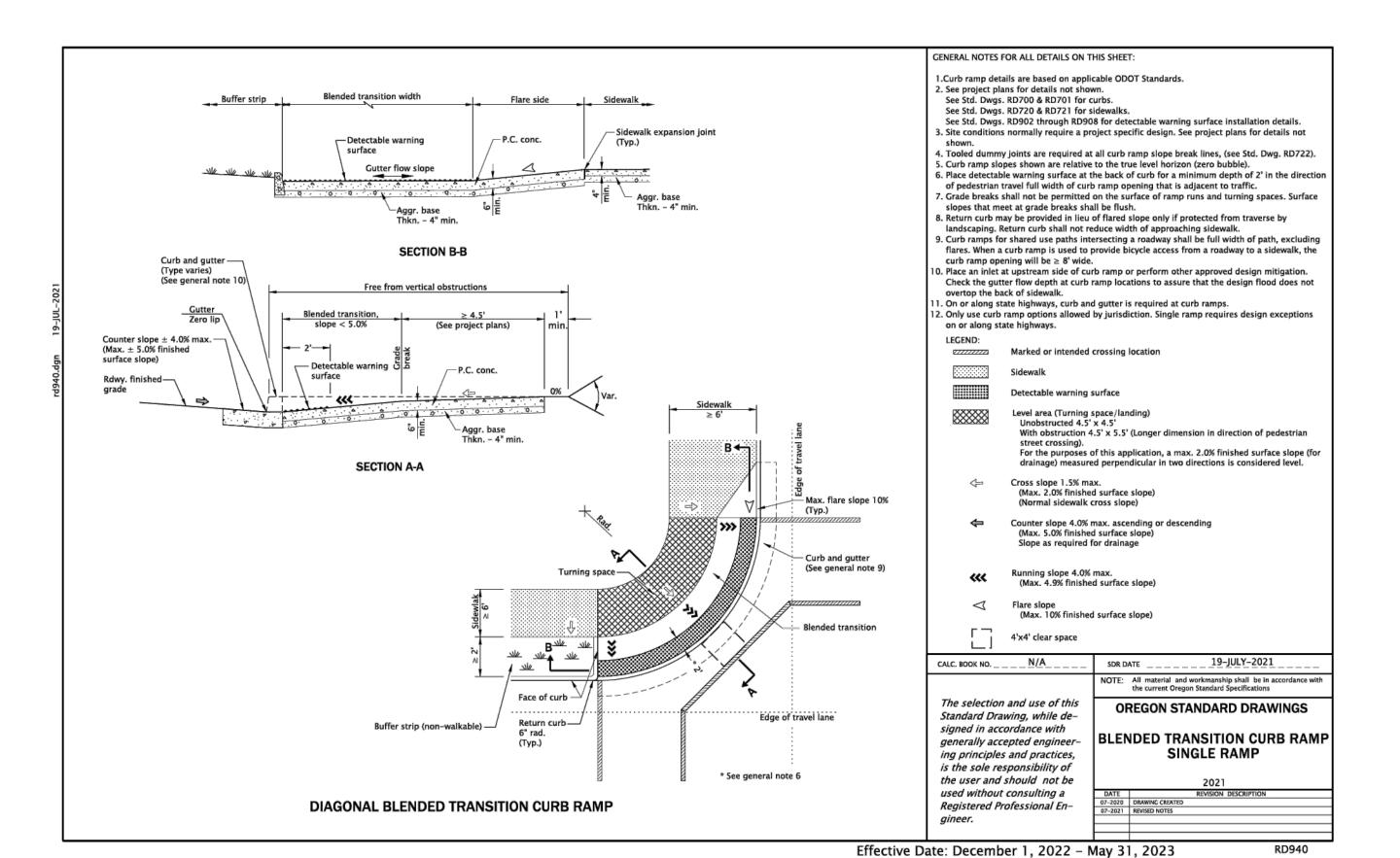


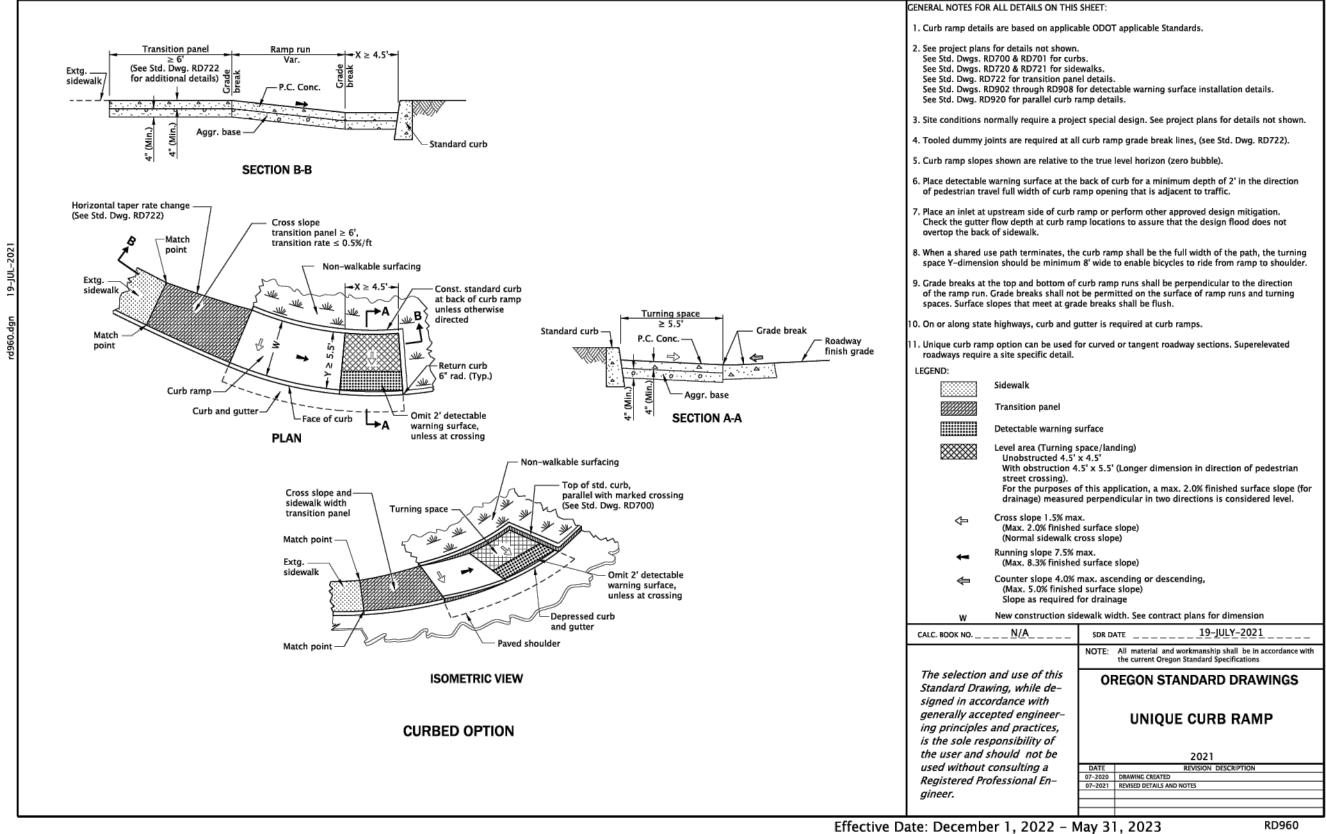
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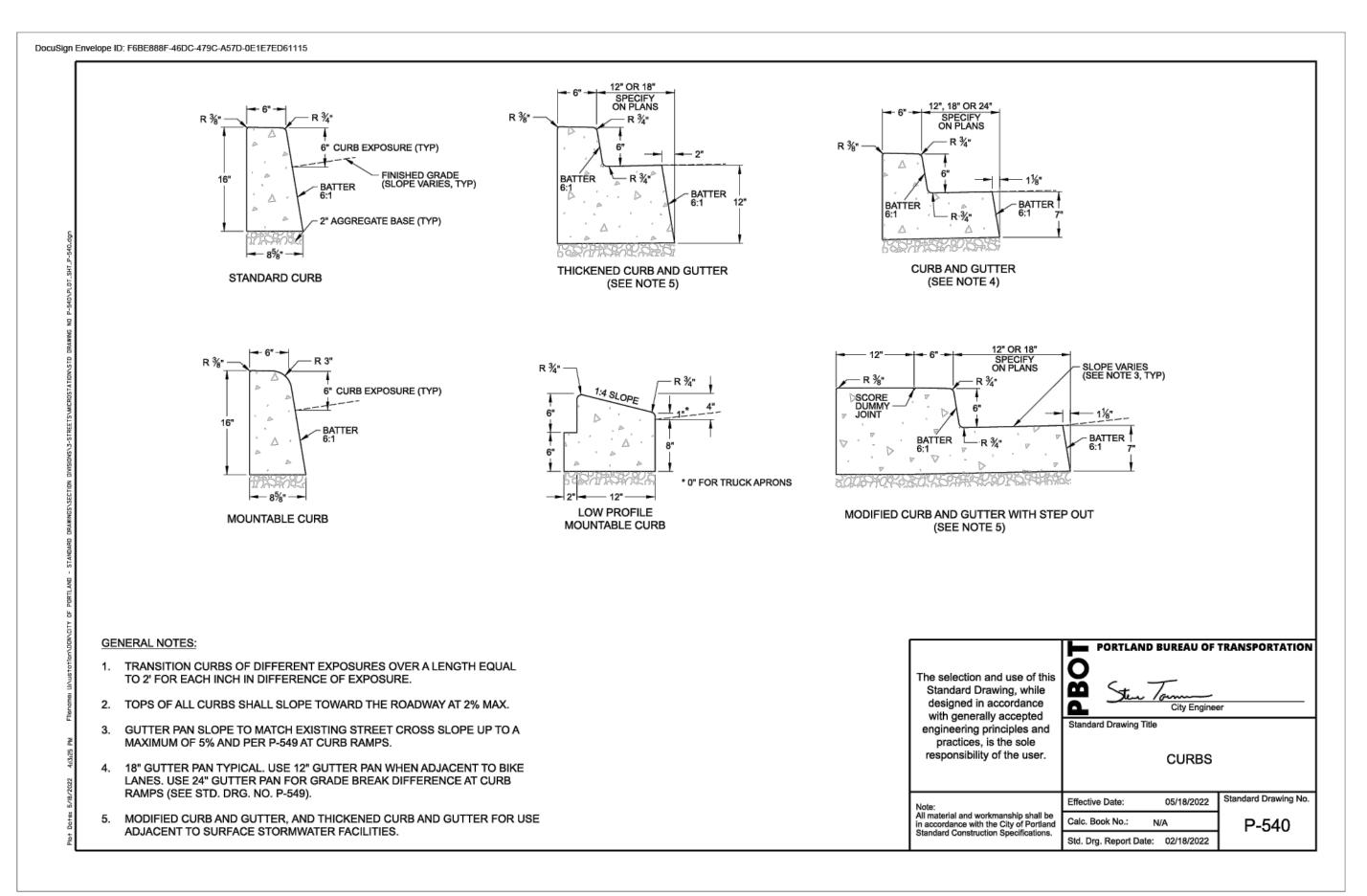
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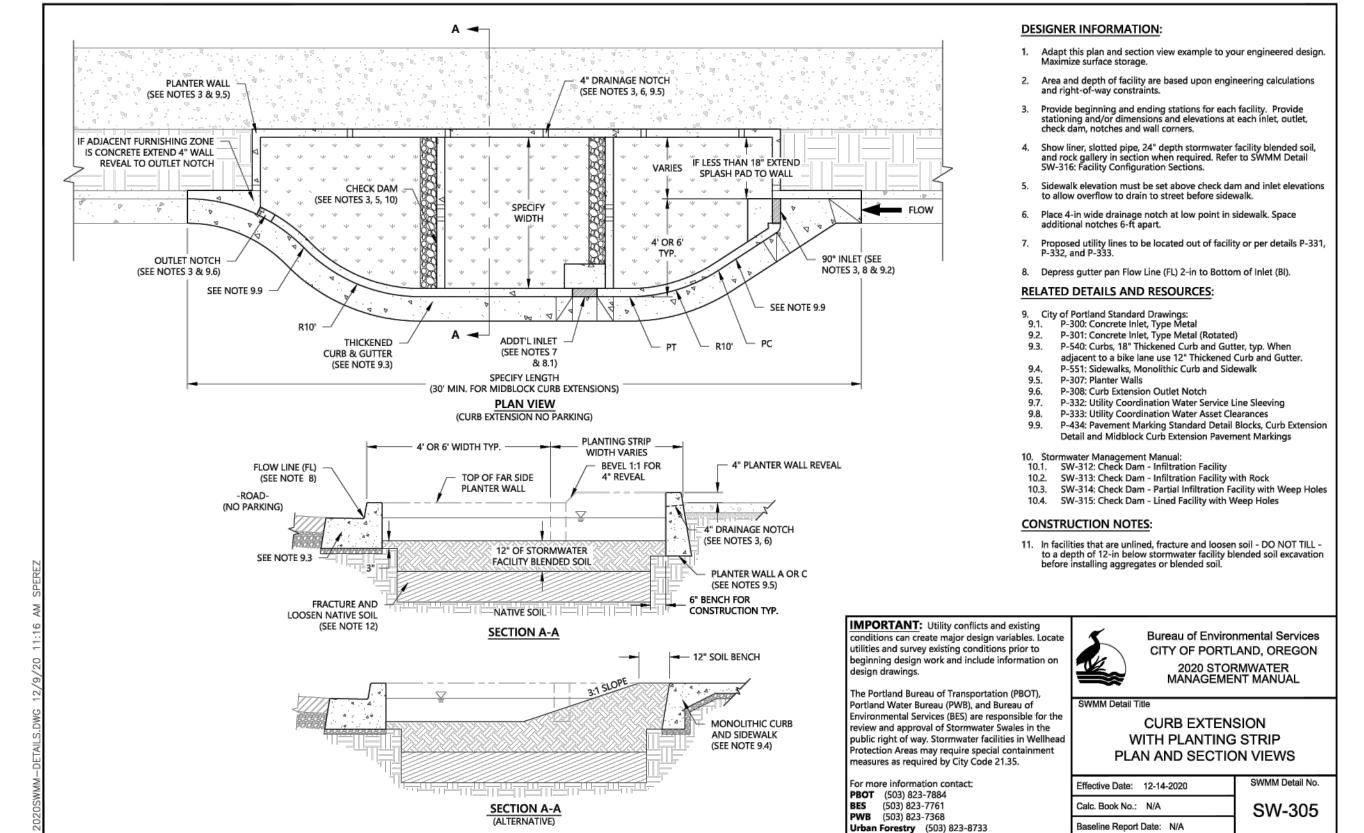
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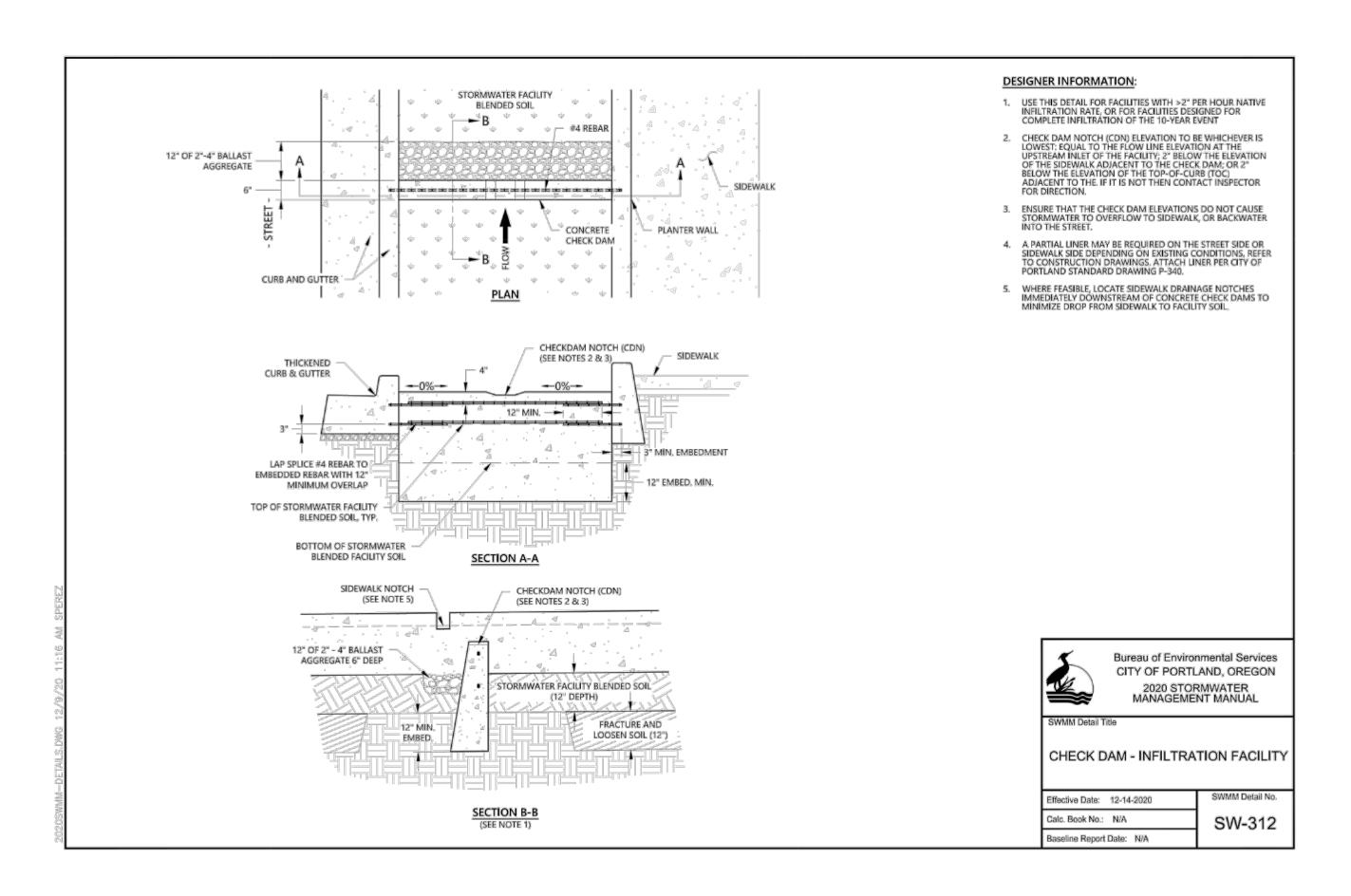
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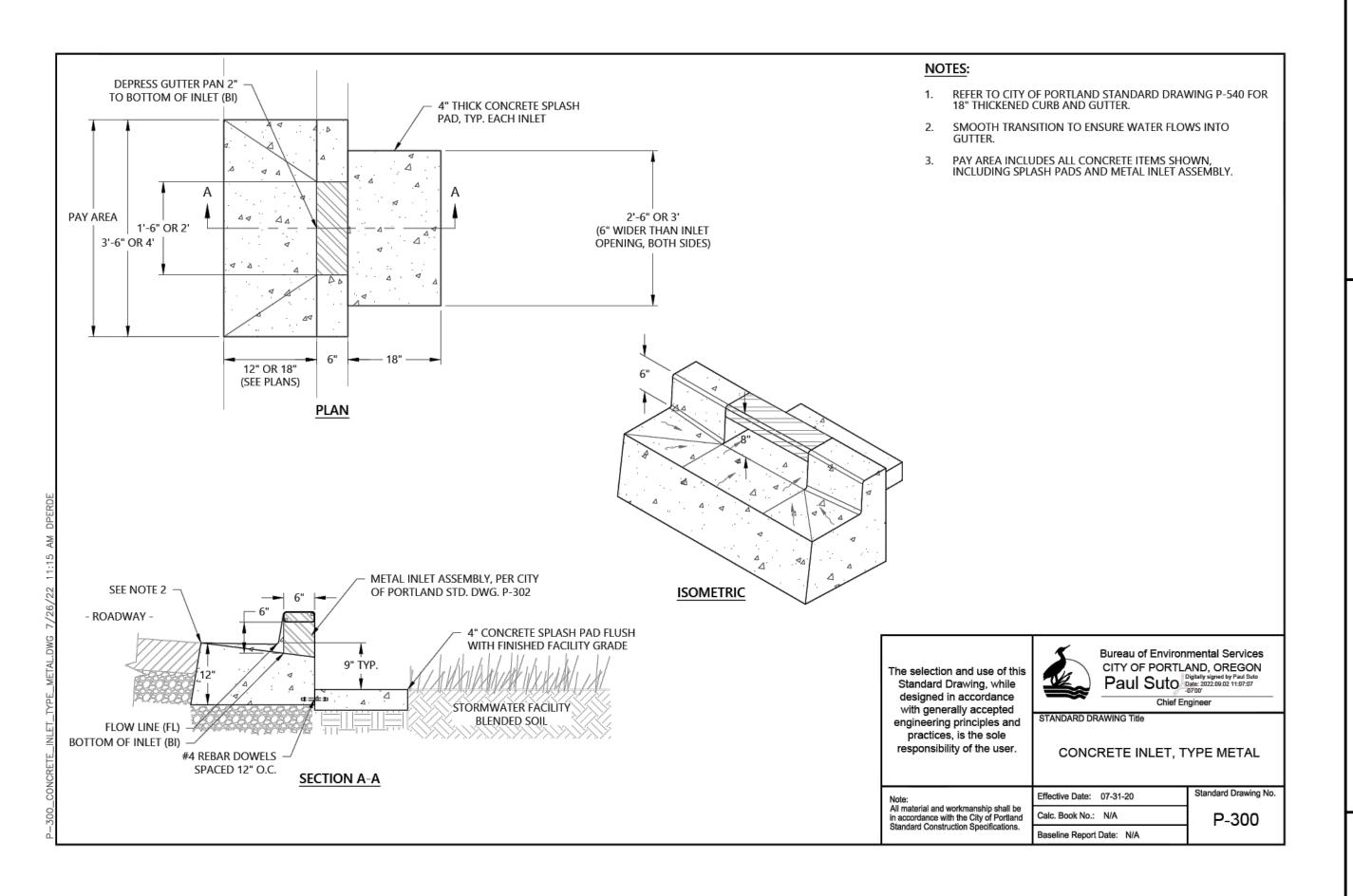














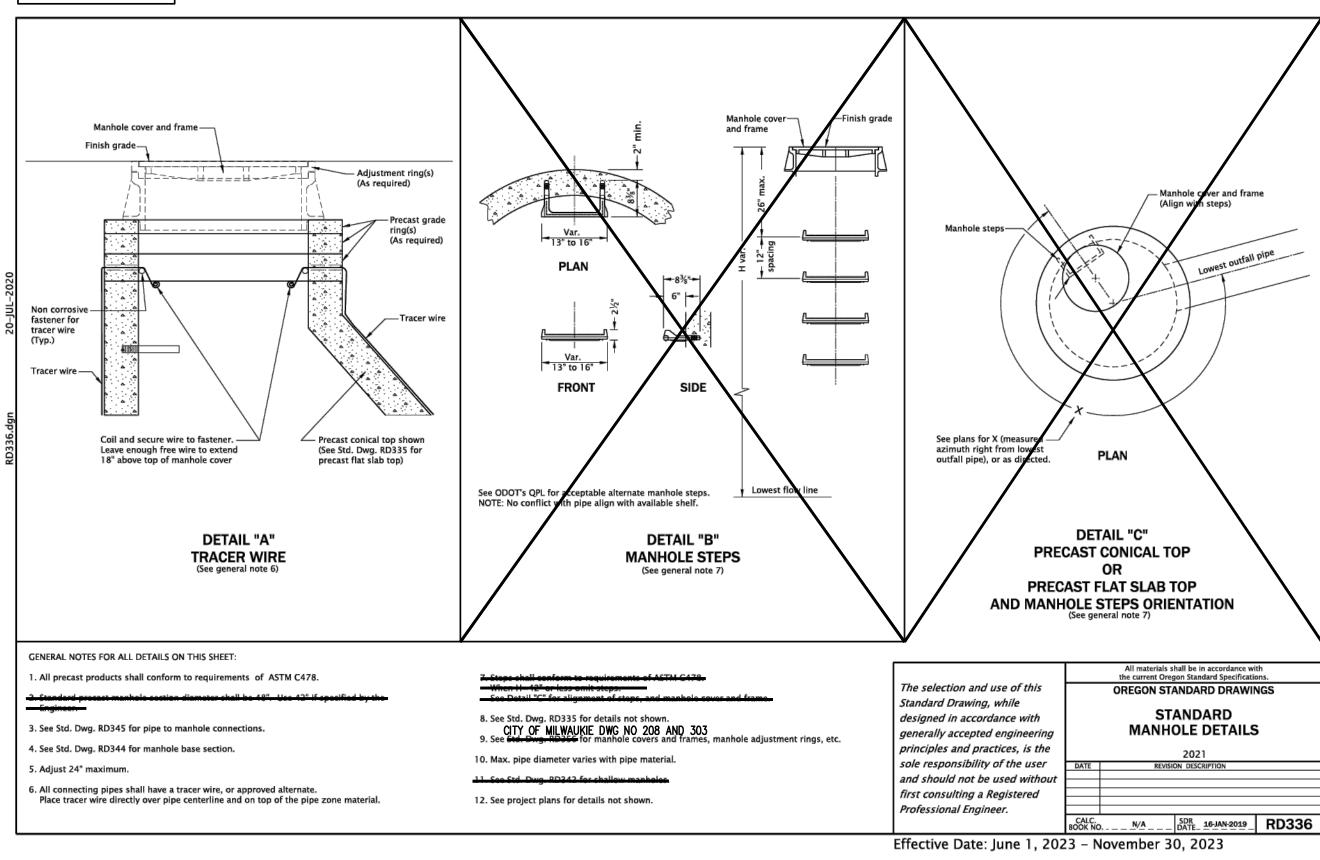
SHING.

STREET

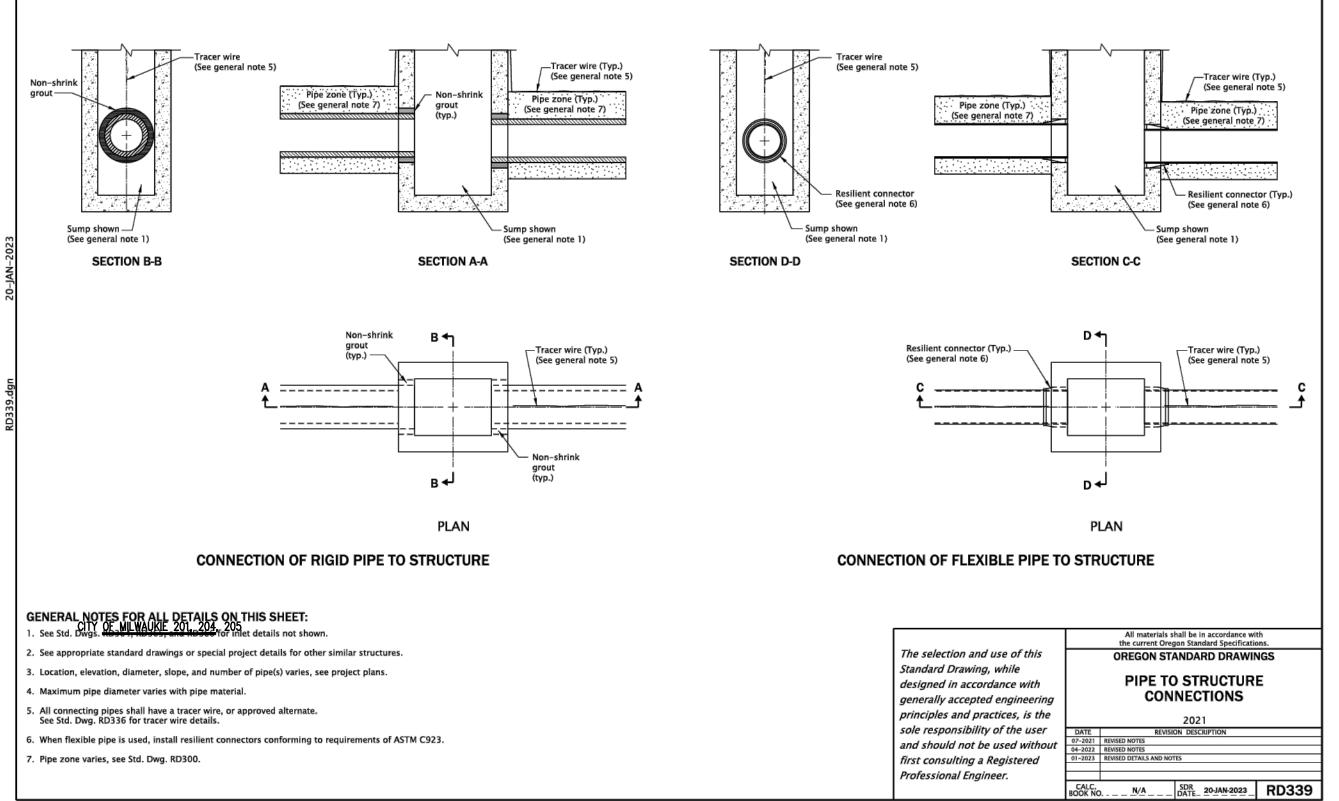
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JOB NUMBER 8970

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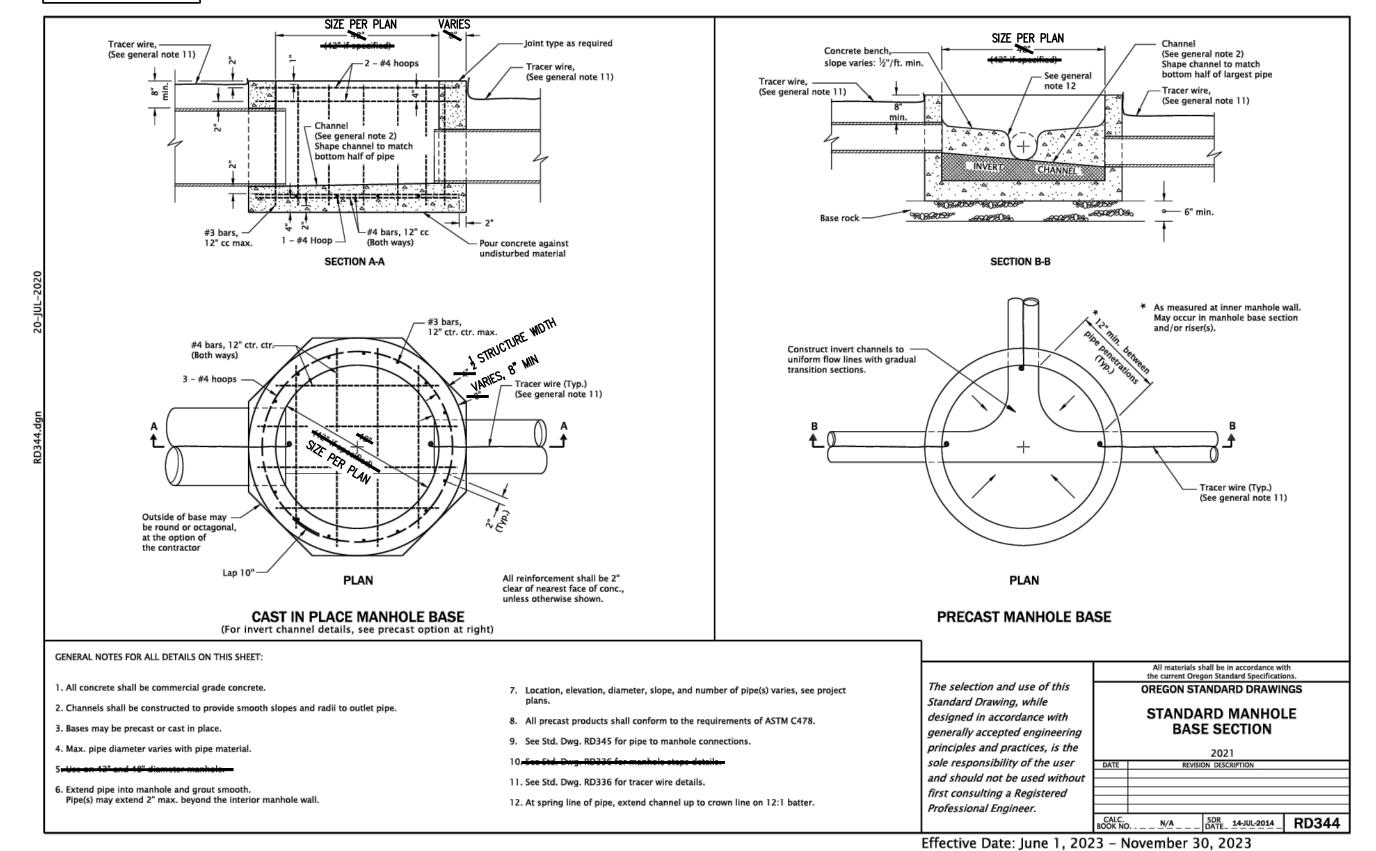


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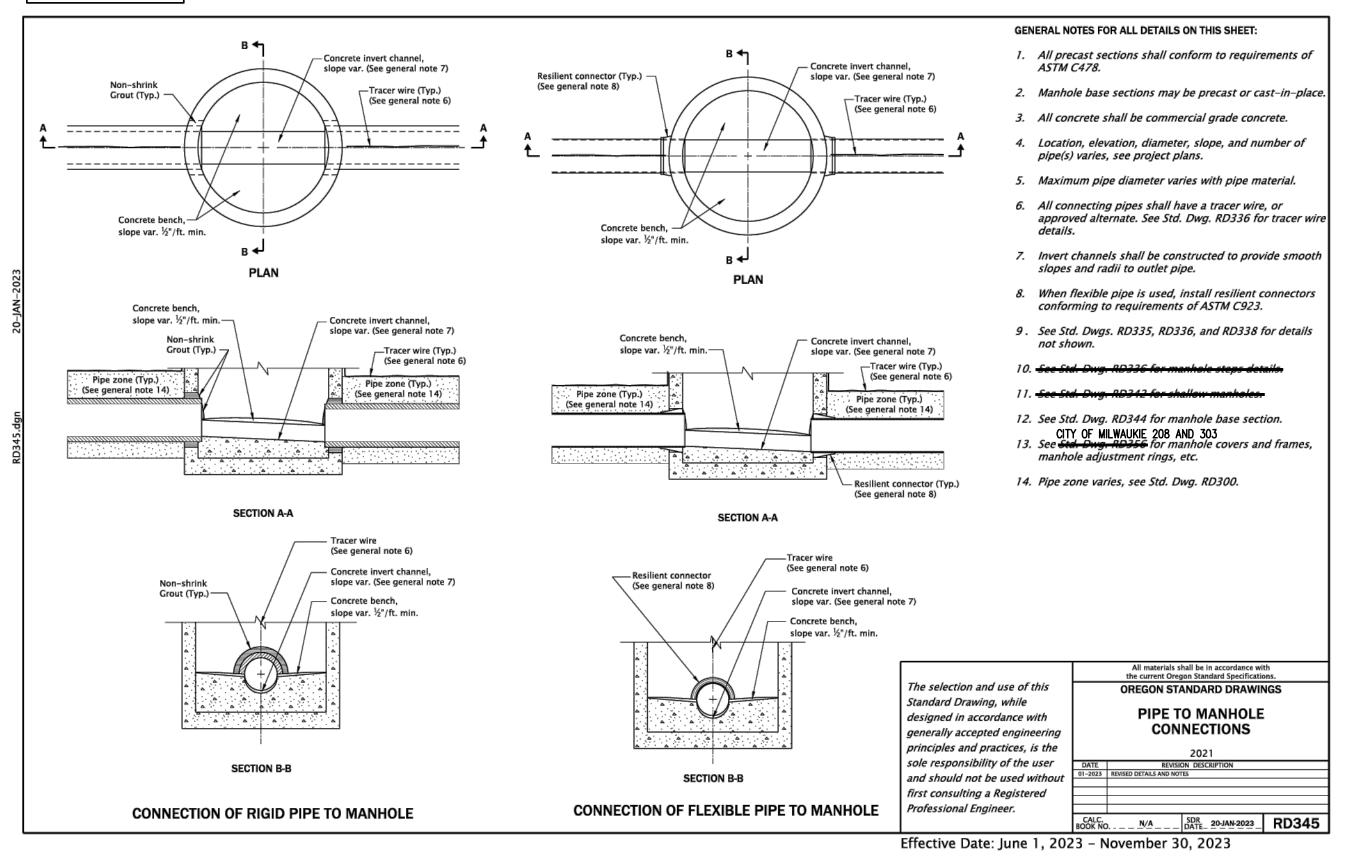


Effective Date: June 1, 2023 - November 30, 2023

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RMWATER DETAILS AREA IMPROVEMEN MILWAUKIE OF

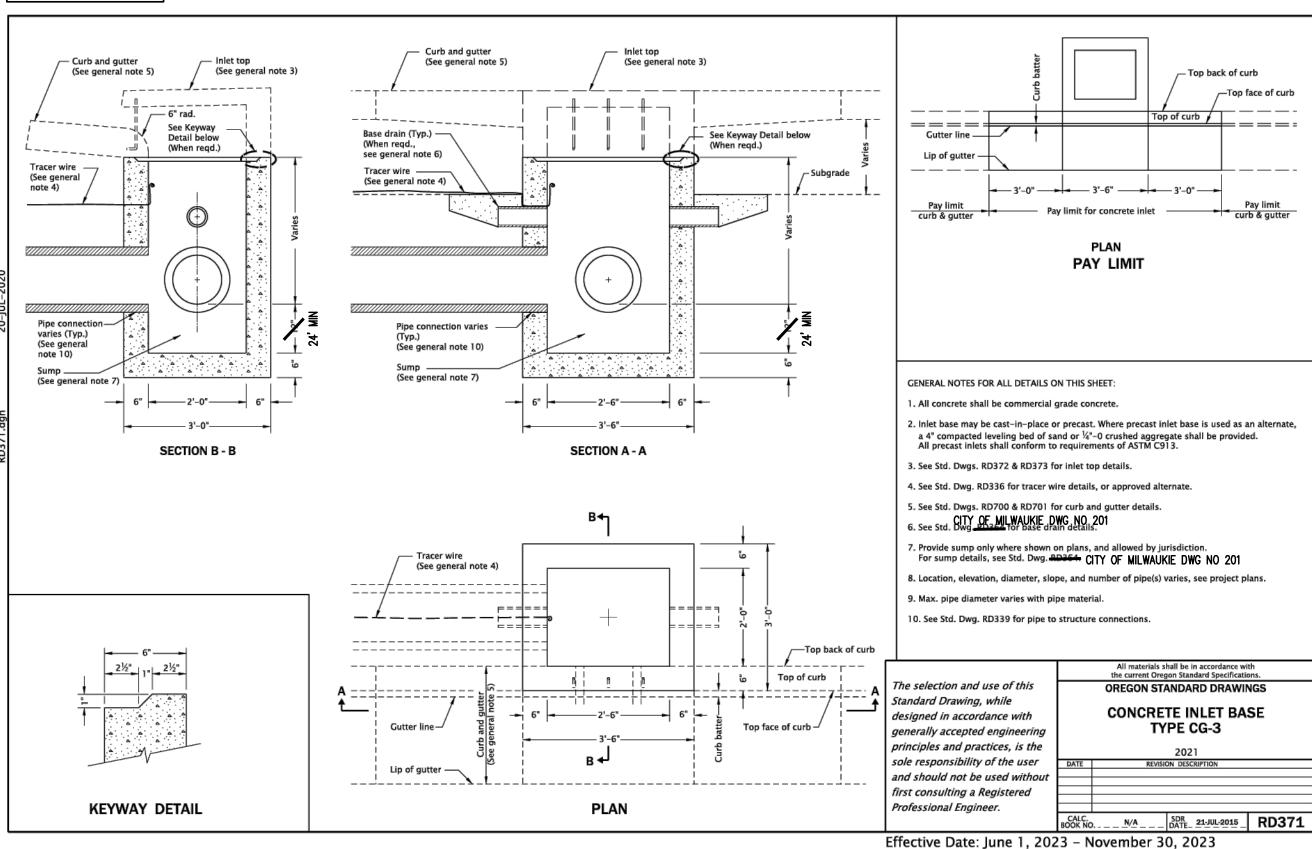
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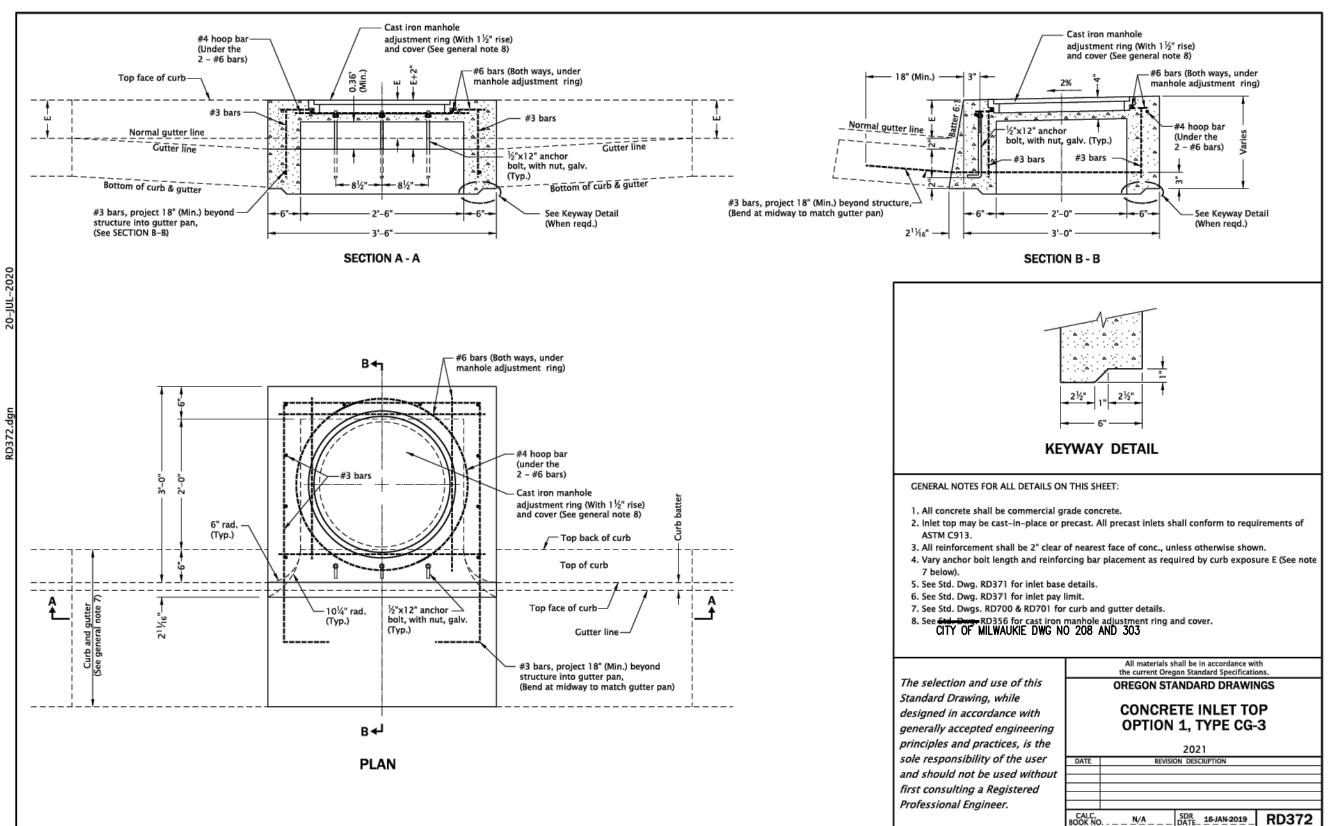
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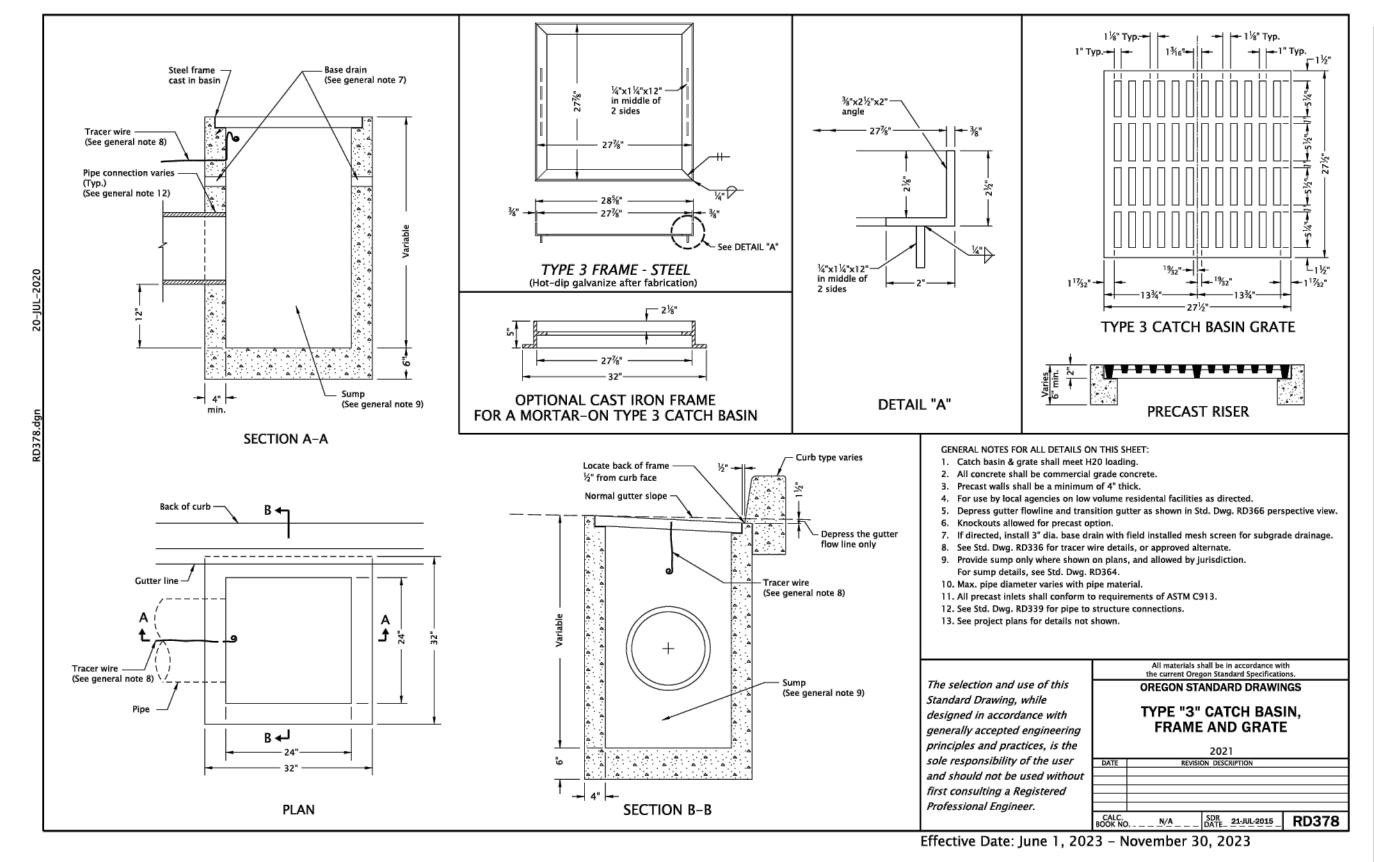
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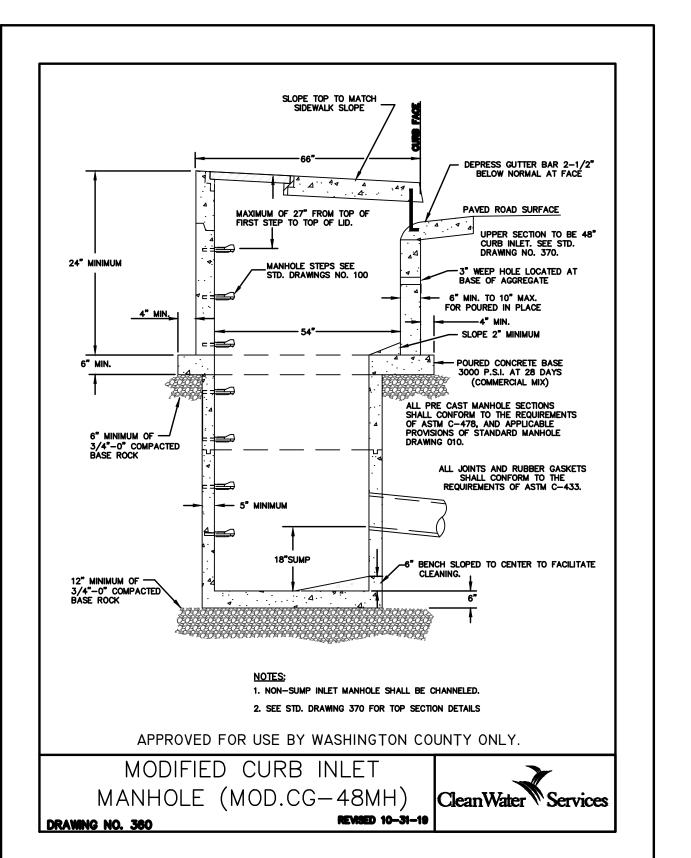


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STORMWATER DETAILS

8970 SHEET