

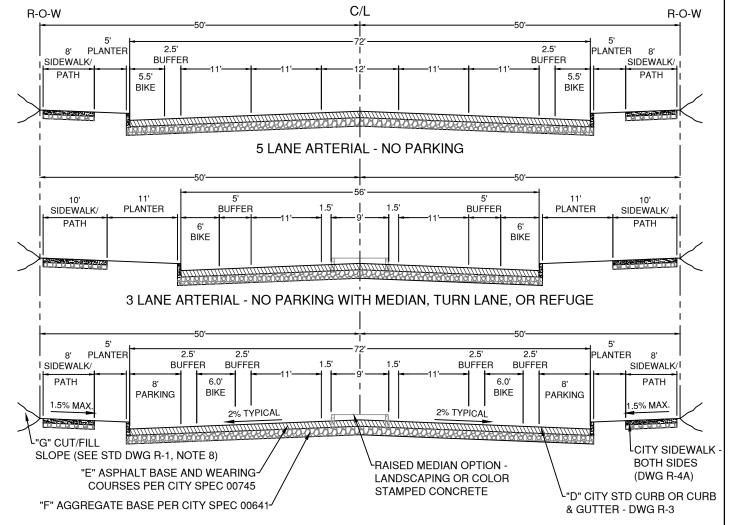
GENERAL NOTES FOR STD DWGS R-1A THROUGH R-1H:

- 1. CENTER STREETS IN THE RIGHT-OF-WAY UNLESS OTHERWISE APPROVED BY CITY ENGINEER FOR UNIQUE TRANSITIONS OR SITE CONSTRAINTS.
- 2. THE LEVEL OF TRAFFIC STRESS PER THE ODOT APM CH. 14 IS SHOWN ON EACH STANDARD CROSS-SECTION. MODIFICATION OF THE CROSS-SECTIONS MUST PROVIDE THE APPROPRIATE LTS.
- 3. INSTALL SIDEWALKS/SHARED-USE PATHS PROPERTY TIGHT. SIDEWALKS/SHARE-USE PATHS MAY MEANDER AROUND UTILITIES, TREES, AND OTHER NON-MOVEABLE OBJECTS. METERS, MANHOLES, AND VALVES ARE NOT PERMITTED WITHIN THE SIDEWALK UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. EXCEPTIONS WILL ONLY BE PERMITTED IF SIDEWALK CANNOT MEANDER AROUND THE EXISTING CONSTRAINT, OR THE OBSTACLE CANNOT BE REMOVED/RELOCATED. EASEMENTS ARE REQUIRED WHERE SIDEWALK/SHARED-USE PATH MEANDERS OUT OF THE RIGHT-OF-WAY.
- 4. PAVEMENT SECTIONS FOR STREETS AND SIDEWALKS PER THE THICKNESSES NOTED IN TABLE BELOW OR AS SPECIFIED IN A STAMPED GEOTECHNICAL REPORT APPROVED BY THE CITY ENGINEER.
- 5. RETAINING WALLS AND STAIRS ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- 6. STREET CROSS-SECTION/IMPROVEMENT STANDARDS ARE BASED ON STREET CLASSIFICATION. REFERENCE THE BEND DEVELOPMENT CODE SECTION 3.4 PUBLIC IMPROVEMENTS STANDARDS AND STANDARD CROSS-SECTIONS FOR ADDITIONAL DETAIL.
- 7. THE CROSS-SLOPE OF THE PLANTER STRIP BETWEEN THE CURB AND RIGHT-OF-WAY SHALL NOT BE STEEPER THAN 4H:1V TO PROVIDE A RECOVERABLE ROADSIDE SLOPE. 50H:1V (2%) IS TYPICAL/PREFERRED.
- 8. MAX 1.5H:1V CUT SLOPES PERMITTED IN ROCK CUTS WHEN APPROVED BY A GEOTECHNICAL ENGINEER.
- 9. MASTER PLAN DEVELOPMENTS PER BEND DEVELOPMENT CODE 4.5.100(E)(2)(C) MAY PROPOSE MODIFIED STREET SECTIONS THAT INCLUDE ADDITIONS TO OR ENHANCEMENTS OF THE BASIC MINIMUM STANDARD SECTIONS SHOWN HERE.
- 10. OFF STREET SHARED-USE PATHS (PATHS MEETING THE GENERAL ALIGNMENT OF THE TSP LOW STRESS NETWORK AND ARE MORE THAN 30 FT OUTSIDE OF THE RIGHT-OF-WAY) ARE ENCOURAGED, PARTICULARLY ALONG ARTERIAL STREET CORRIDORS. SIDEWALKS MAY BE REDUCED TO A MINIMUM 6 FT OR ELIMINATED WHEN THE SAME SIDE OF THE ROAD CORRIDOR IS SERVED BY A SHARED-USE PATH DEPENDING ON ADJACENT LAND USE AND PEDESTRIAN/BIKE ACCESS AND WITH CITY ENGINEER APPROVAL.
- 11. TWELVE-FOOT CENTER MEDIAN ON ARTERIAL AND COLLECTOR CROSS-SECTIONS INCLUDES EITHER A STRIPED MEDIAN (TWO-WAY LEFT TURN LANE, DOUBLE YELLOW, AND/OR TURN BAY) OR A NINE-FOOT RAISED REFUGE ISLAND WITH A ONE AND A HALF FOOT SHY LINE STRIPE EACH SIDE AS REQUIRED PER STANDARDS.
- 12. RAISED MEDIANS ARE AT THE CITY ENGINEER'S DISCRETION ON ARTERIALS & COLLECTORS, MEDIAN REFUGE ISLANDS FOR STREET CROSSINGS ON A LOW STRESS ROUTE OR AN ENHANCED CROSSING ON A CONNECTOR ROUTE DO NOT REQUIRE CITY ENGINEER APPROVAL.
- 13. ON-STREET PARKING SPACES ARE NOT STRIPED. IN HIGH PARKING DEMAND AREAS, A PARKING LINE MAY BE USED WITH CITY ENGINEER APPROVAL.
- 14. SEE BEND DEVELOPMENT CODE 3.4.200(F)(3) FOR STREETS AND INTERSECTIONS NOT IDENTIFIED FOR TRAVEL LANE EXPANSION WHERE ADDITIONAL RIGHT-OF-WAY IS NOT REQUIRED FOR VEHICLE TRAVEL LANES.
- 15.PLTS = PEDESTRIAN LEVEL OF TRAFFIC STRESS / BLTS = BICYCLISTS LEVEL OF TRAFFIC STRESS.
- 16. DEVIATIONS FROM THE PAVEMENT SECTIONS PROVIDED IN THE TABLE BELOW REQUIRE A STAMPED GEOTECHNICAL REPORT. PCC ROADWAYS REQUIRE A STAMPED GEOTECHNICAL REPORT.
- 17. SEE CITY SPEC 00744/00745 FOR MAXIMUM AC PAVEMENT LIFT THICKNESS.
- 18. WHERE EXISTING GROUND CROSS SLOPE EXCEEDS 12%, CURB-TIGHT SIDEWALK IS ALLOWED PER DESIGN STANDARD 3.4.7 HILLSIDE.

STREET TYPE	"A" ROW	"B" STREET	"C" SIDEWALK	"D" CURB	"E" ACP DEPTH/LEVEL	"F" BASE	"G" CUT/FILL
ARTERIAL		PER R-1	A	7"/16"	8" - LEVEL III	10"	4H:1V
COLLECTOR	F	PER R-1B &	R-1C	6"/14"	6" - LEVEL III	8"	4H:1V
LOCAL	PER R-1D & R-1E		R-1E	6"/12"	4" - LEVEL III	6"	2H:1V
INDUSTRIAL LOCAL		PER R-1F		6"/12"	4" - LEVEL III	8"	2H:1V
ALLEY		PER R-1G			4" - LEVEL III	6"	2H:1V
ROUNDABOUT - ACP VARIES V.		VARIES	VARIES	**	8" - LEVEL IV	10"	4H:1V
ROUDABOUT - PCC ***	VARIES	VARIES	VARIES	**	*	*	4H:1V

- * THE STANDARD PAVEMENT SECTION FOR ARTERIAL STREETS IS ASPHALT. FOR RECONSTRUCTION, NEW STREETS MORE THAN 1/4 MILE LONG, AND FOR ROUNDABOUTS, A LIFE CYCLE COST ANALYSIS EVALUATING ASPHALT, PERPETUAL PAVEMENT, CONCRETE, AND OTHER SECTIONS SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER.
- * CURBS AT ROUNDABOUTS AND ON SPLITTER ISLANDS SHALL BE HIGH-STRENGTH PER CITY SPEC 00759.13.
- *** DOWELING REQUIRED AT ROUNDABOUT JOINTS

DI	ROADWAY	(50)	CITY OF BEND	SCALE NTS
RI		i (QLIIN)	STANDARD DRAWING	DATE 01/31/2022
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		CITY OF BEND	TYPICAL STREET CROSS-SECTIONS - GENERAL NOTES	STD DWG R-1

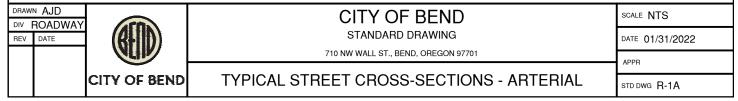


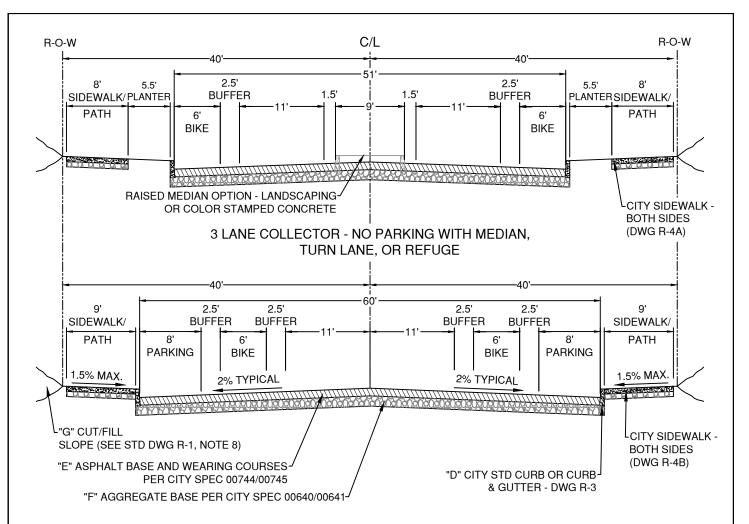
3 LANE ARTERIAL - PARKING BOTH SIDES WITH MEDIAN, TURN LANE, OR REFUGE

PLTS: $1 \le 35$ MPH BLTS: $1 \le 30$ MPH $2 \ge 40$ MPH (SUP) BLTS: $1 \le 30$ MPH $3 \ge 40$ MPH

ARTERIAL GENERAL NOTES:

- 1. SEE R-1 FOR GENERAL NOTES.
- 2. WHERE PERMITTED BY THE BEND DEVELOPMENT CODE, ON-STREET PARKING MAY BE PROVIDED ON ARTERIAL STREETS WITH SPEEDS 35 MPH OR LESS. ON-STREET PARKING DESIGN PER ENGINEERING STANDARDS.
- 3. PROTECTED BIKE LANES, OTHER THAN PARKING PROTECTED, REQUIRE CITY ENGINEER APPROVAL. PARKING PROTECTED BIKE LANES ALLOWED ON A CASE-BY-CASE BASIS.
- 4. SIDEWALK MAY MEANDER WITH A MINIMUM 5 FT PLANTER STRIP. DESIGN MEANDERING CURVES FOR 10 MPH.
- 5. FOR EXISTING ARTERIAL SECTIONS IN 100 FT RIGHT-OF-WAY WITH 52 FT PAVEMENT WIDTHS, THE CITY ENGINEER MAY APPROVE REDUCING THE BIKE LANE TO 6/2.5 FT TO MATCH THE 52 FT CURB-TO-CURB EXISTING CONSTRUCTED SECTIONS; EXCEPTION DOES NOT APPLY TO SECTIONS (NEW OR RECONSTRUCTED) AT THE OUTER EXTENTS OF THE NETWORK WHERE UNDEVELOPED LAND AND FUTURE EXPANSIONS/RECONSTRUCTIONS CAN ACCOMMODATE THE 56/72 FT PAVEMENT SECTION.
- 6. THE FIVE-LANE ARTERIAL SECTION IS TO BE USED ON 3RD STREET, 27TH STREET SOUTH OF NEFF ROAD, REED MARKET ROAD EAST OF US 97, AND OTHER MAJOR ARTERIAL STREETS AS IDENTIFIED BY A TRAFFIC ANALYSIS WITH CITY ENGINEER APPROVAL (SEE STANDARDS FOR LANE ADDITIONS).
- 7. PARKING IS NOT PERMITTED ON A FIVE LANE ARTERIAL
- 8. FOR PARKING ON ONE SIDE OF A THREE LANE ARTERIAL, COMBINE THE APPLICABLE HALF STREET SECTIONS FROM THE NO PARKING AND PARKING ON BOTH SIDES TYPICAL SECTIONS. THE ROAD CENTERLINE SHALL REMAIN IN THE CENTER OF ROW TO ALLOW FOR FUTURE EXPANSION.





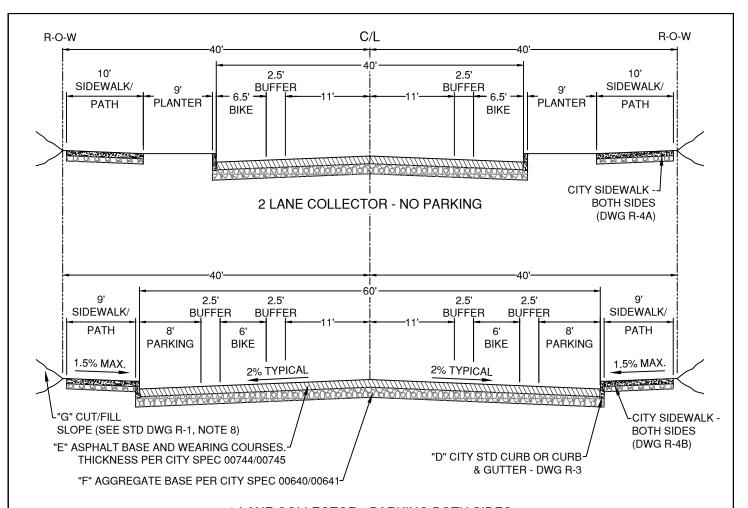
2 LANE COLLECTOR - PARKING BOTH SIDES

PLTS: $1 \le 35$ MPH BLTS: $1 \le 30$ MPH $2 \ge 40$ MPH (SUP) (BIKE LANE) 2 = 35 MPH $3 \ge 40$ MPH

MAJOR COLLECTOR GENERAL NOTES:

- 1. SEE R-1 FOR GENERAL NOTES.
- 2. WHERE PERMITTED BY THE BEND DEVELOPMENT CODE, ON-STREET PARKING MAY BE PROVIDED ON COLLECTOR STREETS WITH SPEEDS 35 MPH OR LESS. ON-STREET PARKING DESIGN PER ENGINEERING STANDARDS.
- 3. WHERE THE CROSS-SECTION DOES NOT PROVIDE FOR TREES IN A PLANTER STRIP, DEVELOPMENT MUST STILL MEET BEND DEVELOPMENT CODE TREE REQUIREMENTS IN AN ALTERNATE LOCATION ON-SITE OR PROVIDE MITIGATION AND RECEIVE APPROVAL OF A VARIANCE AS REQUIRED BY CODE.
- 4. PROTECTED BIKE LANES, OTHER THAN PARKING PROTECTED, REQUIRE CITY ENGINEER APPROVAL. PARKING PROTECTED BIKE LANES ALLOWED ON A CASE-BY-CASE BASIS.
- 5. SIDEWALK MAY MEANDER WITH A MINIMUM 5 FT PLANTER STRIP. DESIGN MEANDERING CURVES FOR 10 MPH.

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		CITY OF BEND	TYPICAL STREET CROSS-SECTIONS - MAJOR COLLECTOR	STD DWG R-1B



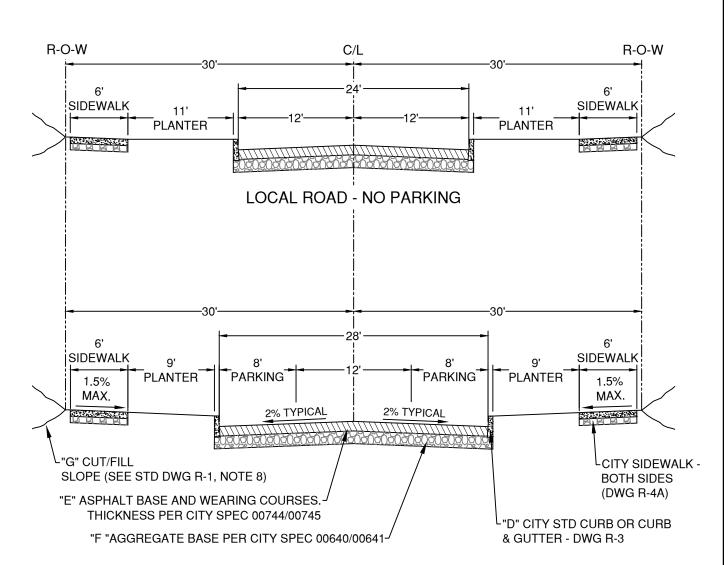
2 LANE COLLECTOR - PARKING BOTH SIDES

PLTS: $1 \le 35$ MPH BLTS: $1 \le 30$ MPH $2 \ge 40$ MPH (SUP) BLTS: $1 \le 30$ MPH $3 \ge 40$ MPH

MINOR COLLECTOR GENERAL NOTES:

- 1. SEE R-1 FOR GENERAL NOTES.
- 2. WHERE PERMITTED BY THE BEND DEVELOPMENT CODE, ON-STREET PARKING MAY BE PROVIDED ON COLLECTOR STREETS WITH SPEEDS 35 MPH OR LESS. ON-STREET PARKING DESIGN PER ENGINEERING STANDARDS.
- 3. WHERE THE CROSS-SECTION DOES NOT PROVIDE FOR TREES IN A PLANTER STRIP, DEVELOPMENT MUST STILL MEET BEND DEVELOPMENT CODE TREE REQUIREMENTS IN AN ALTERNATE LOCATION ON-SITE OR PROVIDE MITIGATION AND RECEIVE APPROVAL OF A VARIANCE AS REQUIRED BY CODE
- 4. PROTECTED BIKE LANES, OTHER THAN PARKING PROTECTED, REQUIRE CITY ENGINEER APPROVAL. PARKING PROTECTED BIKE LANES ALLOWED ON A CASE-BY-CASE BASIS.
- 5. SIDEWALK MAY MEANDER WITH A MINIMUM 5 FT PLANTER STRIP. DESIGN MEANDERING CURVES FOR 10 MPH.
- 6. FOR PARKING ON ONE SIDE, COMBINE THE APPLICABLE HALF STREET SECTIONS FROM THE NO PARKING AND PARKING ON BOTH SIDES TYPICAL SECTIONS. THE ROAD CENTERLINE SHALL REMAIN IN THE CENTER OF ROW TO ALLOW FOR FUTURE EXPANSION.

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		CITY OF BEND	TYPICAL STREET CROSS-SECTIONS - MINOR COLLECTOR	STD DWG R-1C



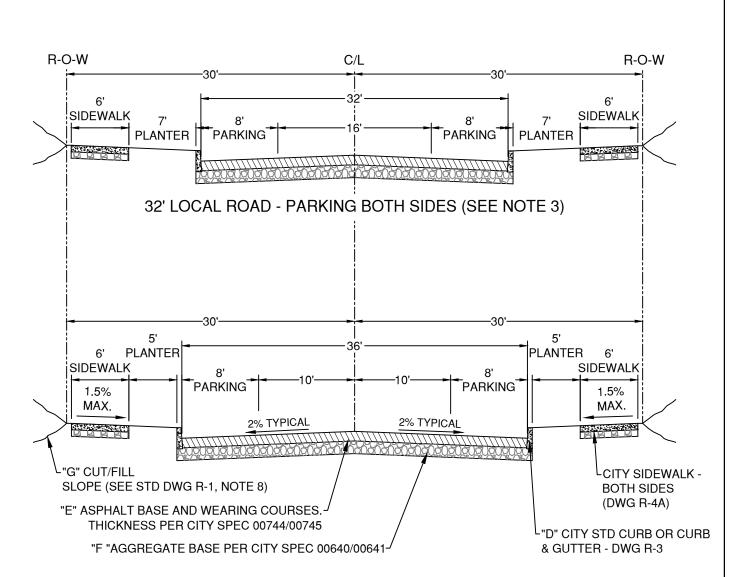
28' LOCAL ROAD - PARKING BOTH SIDES (SEE NOTE 3)

PLTS:1 BLTS:1 2 (STRIPED CENTERLINE)

LOCAL ROAD GENERAL NOTES:

- 1. SEE R-1 FOR GENERAL NOTES
- 2. UTILITY EASEMENTS MAY BE REQUIRED FOR PEDESTALS, TRANSFORMERS, ETC.
- 3. LOCAL ROADS WITH TRAVEL LANES LESS THAN 10' IN EACH DIRECTION ARE CONSIDERED QUEUING STREETS. SEE DESIGN STANDARDS SECTION 3.4.2.2 FOR APPROPRIATE QUEUING STREET APPLICATIONS.

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	CITY OF BEND	TYPICAL STREET CROSS-SECTION - LOCAL	STD DWG R-1D



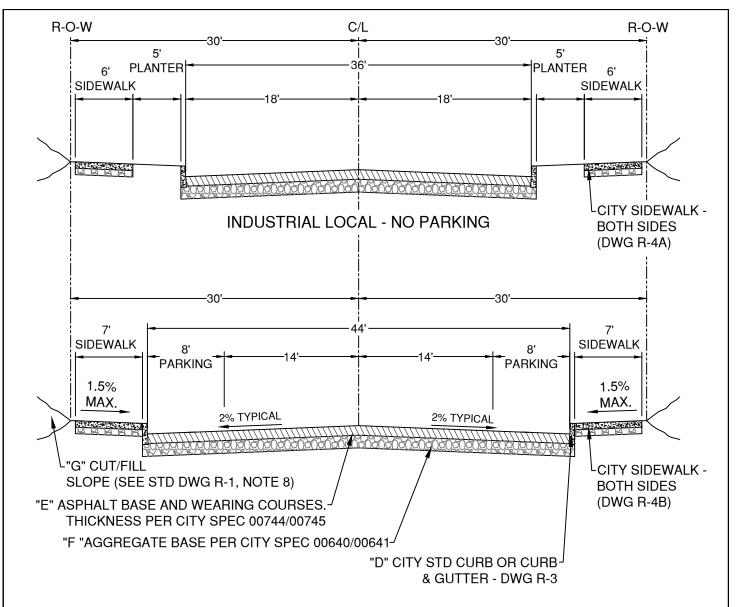
36' LOCAL ROAD - PARKING BOTH SIDES

PLTS:1 BLTS:1 2 (STRIPED CENTERLINE)

LOCAL ROAD GENERAL NOTES:

- 1. SEE R-1 FOR GENERAL NOTES
- 2. UTILITY EASEMENTS MAY BE REQUIRED FOR PEDESTALS, TRANSFORMERS, ETC.
- 3. LOCAL ROADS WITH TRAVEL LANES LESS THAN 10' IN EACH DIRECTION ARE CONSIDERED QUEUING STREETS. SEE DESIGN STANDARDS SECTION 3.4.2.2 FOR APPROPRIATE QUEUING STREET APPLICATIONS.

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	CITY OF BEND	TYPICAL STREET CROSS-SECTION - LOCAL	STD DWG R-1E



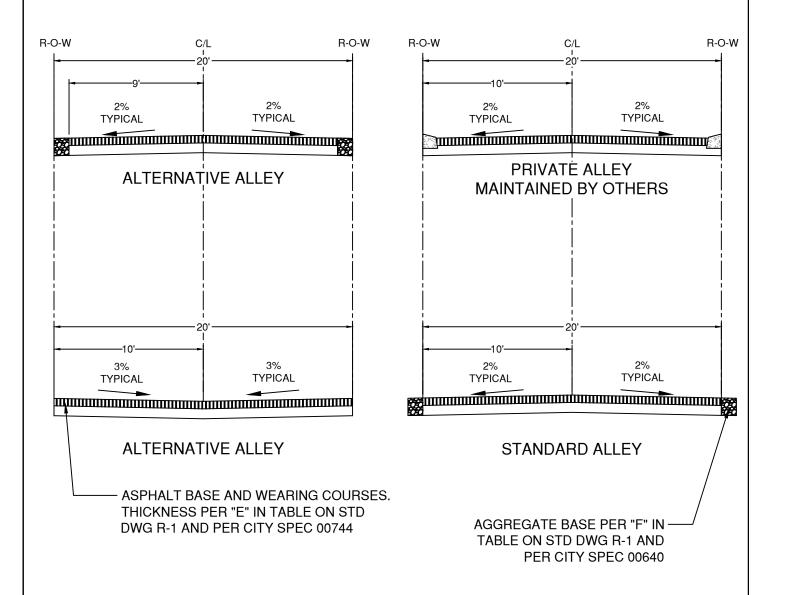
INDUSTRIAL LOCAL - PARKING BOTH SIDES

PLTS:1 BLTS:1 2 (STRIPED CENTERLINE)

LOCAL ROAD GENERAL NOTES:

- 1. SEE R-1 FOR GENERAL NOTES
- 2. THE SIDE PARKING IS ON MAY ALTERNATE BY BLOCK. PROVIDE PARKING NEXT TO PARKS, SCHOOLS, AND OTHER ACTIVITY GENERATING LAND USES.
- 3. UTILITY EASEMENTS MAY BE REQUIRED FOR PEDESTALS, TRANSFORMERS, ETC.
- 4. FOR PARKING ON ONE SIDE, COMBINE THE APPLICABLE HALF STREET SECTIONS FROM THE NO PARKING AND PARKING ON BOTH SIDES TYPICAL SECTIONS. THE ROAD CENTERLINE SHALL REMAIN IN THE CENTER OF ROW TO ALLOW FOR FUTURE EXPANSION.

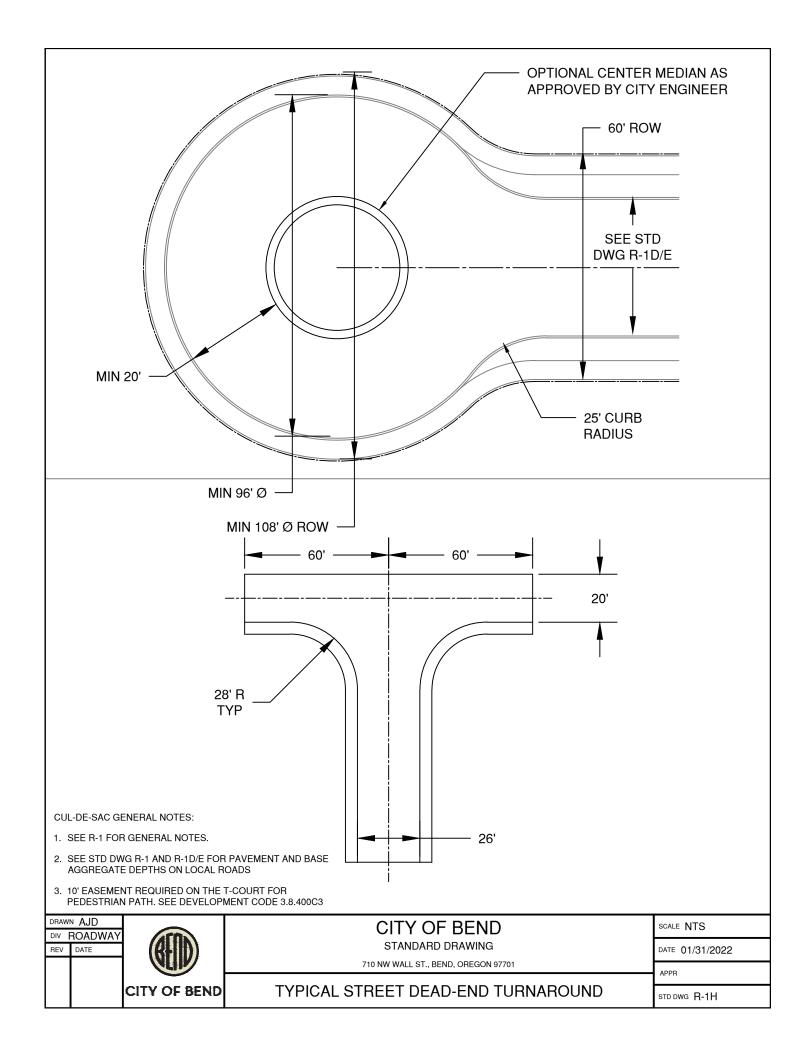
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		CITY OF BEND	TYPICAL STREET CROSS-SECTION - INDUSTRIAL LOCAL	STD DWG R-1F

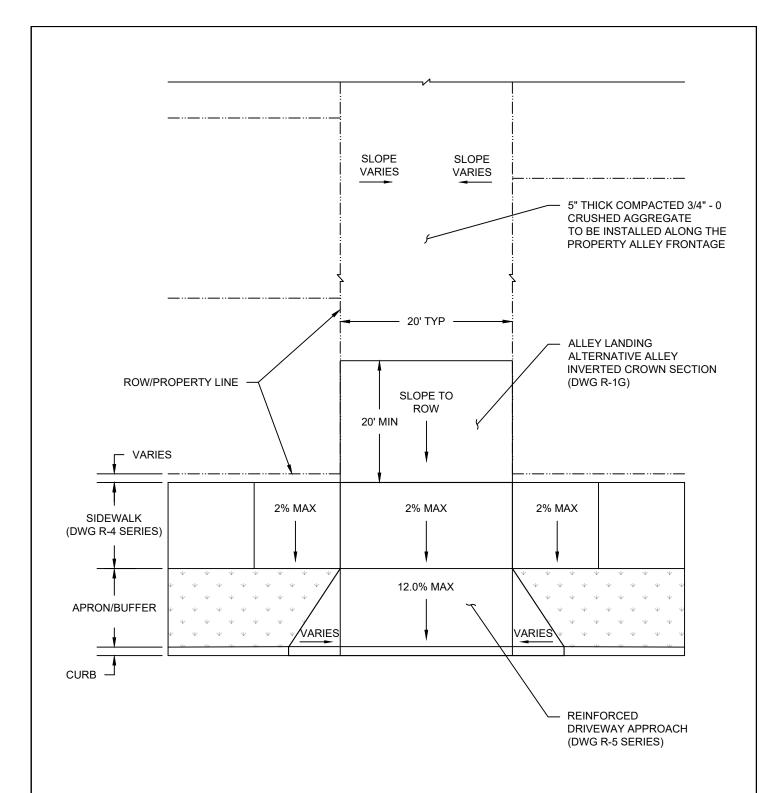


ALLEY GENERAL NOTES:

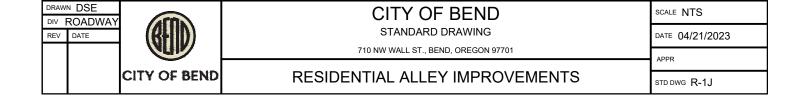
- 1. SEE R-1 FOR GENERAL NOTES.
- 2. NEW ALLEY RIGHT-OF-WAY AND PAVED WIDTH WILL BE 20' WIDE. WHERE ALLEYS ARE INSTALLED IN EXISTING RIGHT-OF-WAY, THE PAVED WIDTH MAY BE UP TO 2 FEET LESS THAN THE RIGHT-OF-WAY WIDTH. 1-FOOT WIDE BUFFERS ON EACH SIDE OF THE ALLEY MAY BE LEFT UNPAVED WHEN ALLEYS ARE INSTALLED IN EXISTING RIGHT-OF-WAY.
- 3. SURFACE RESTORATION OF TRANSVERSE TRENCHING WILL NOT REQUIRE ASPHALT IF THE EXISTING ALLEY IS UNPAVED. RESTORE SURFACE TO MATCH EXISTING.

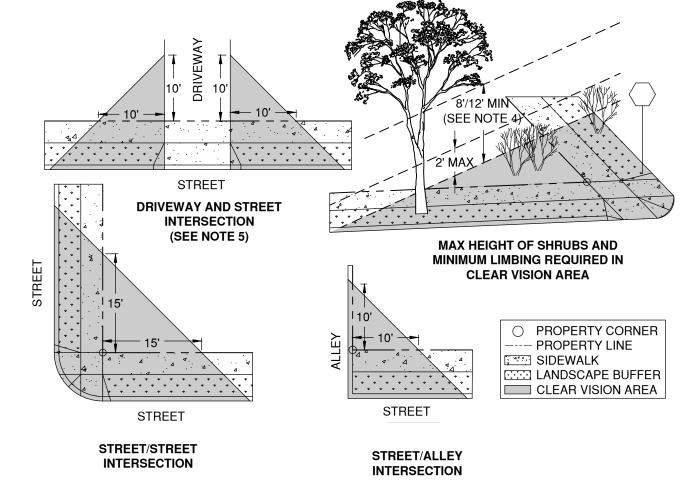
		CITY OF BEND	TYPICAL STREET SECTION - ALLEY	STD DWG R-1G
		CLIP	710 NW WALL ST., BEND, OREGON 97701	APPR
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_	™ AJD ROADWAY	(CO)	CITY OF BEND	SCALE NTS





- 1. IF THERE IS ALLEY ACCESS TO THE PROPERTY AND ONE OR MORE OF THE ALLEY DRIVEWAY APPROACHES ARE NOT IMPROVED TO CITY OF BEND STANDARDS AND SPECIFICATIONS, THEN AN ALLEY APPROACH MUST BE IMPROVED TO CITY OF BEND STANDARDS AND SPECIFICATIONS WITH THE PROPOSED DEVELOPMENT.
- 2. REFER TO THE BEND DEVELOPMENT CODE 4.2.400 FOR ADDITIONAL MINIMUM DEVELOPMENT STANDARDS REQUIREMENTS.





CLEAR VISION AREAS ARE ESTABLISHED AS FOLLOWS:

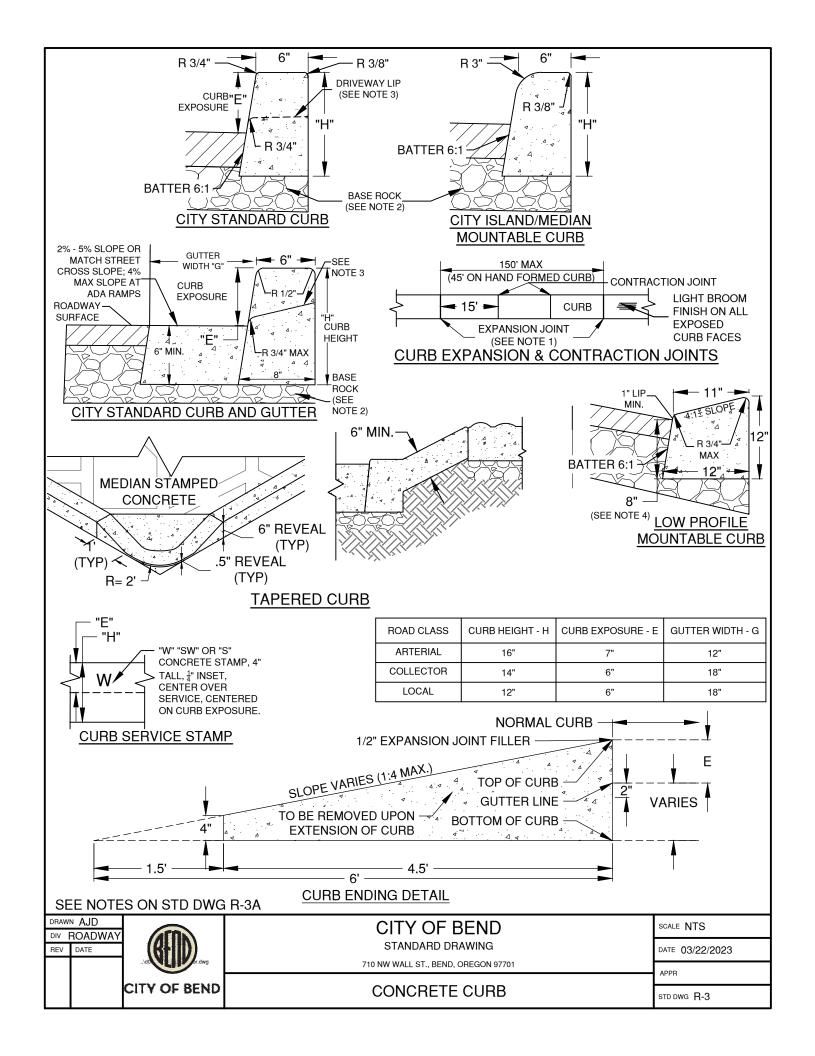
- 1) CLEAR VISION TRIANGLES SHALL BE ESTABLISHED AT THE CORNER OF ANY PROPERTY ADJACENT TO INTERSECTIONS OF PUBLIC OR PRIVATE STREETS, ALLEYS, MID-BLOCK LANES, AND/OR RAILROAD RIGHTS-OF-WAY.
- 2) THE TWO LEGS OF THE CLEAR VISION TRIANGLE ARE EACH MEASURED FROM THE POINT OF INTERSECTION OF THE TWO CORNER LOT LINES, SPECIAL SETBACK LINES, OR ACCESS EASEMENT LINES. WHERE LOT LINES HAVE ROUNDED CORNERS, THE LOT LINES ARE EXTENDED IN A STRAIGHT LINE TO A POINT OF INTERSECTION. THE CLEAR VISION AREA EXTENDS TO THE FACE OF CURB AT THE STREET OR ALLEY
- 3) THE LENGTH OF BOTH LEGS OF THE CLEAR VISION AREA TRIANGLE IS AS FOLLOWS:

TYPICAL, ALL ZONES: 15 FEET
RAILROADS: 15 FEET
ALLEY INTERSECTION: 10 FEET
DRIVEWAYS: 10 FEET

- 4) WITHIN THE CLEAR VISION AREA, OBSTRUCTIONS TO VISION OTHER THAN A STREET SIGN, POST, OR POLE LESS THAN 8 INCHES IN DIAMETER SHALL BE CLEARED FROM PROPERTY UNDER THE CONTROL OF THE CITY, HOMEOWNER, OR DEVELOPER. SHRUBS OR FOLIAGE MUST NOT EXCEED 2'-0" IN HEIGHT. PLANTING NEW TREES OR INSTALLATION OF COMMUNICATION TOWERS AND TRANSFORMERS, ARE NOT PERMITTED WITHIN THE CLEAR VISION AREA. EXISTING TREES MUST BE MAINTAINED/LIMBED TO A MINIMUM OF 8'-0" ABOVE THE TOP OF CURB OR 12'-0" ABOVE ADJACENT BIKE LANES.
- 5) DRIVEWAY APPROACHES AND DRIVEWAYS ARE NOT PERMITTED WITHIN THE CLEAR VISION AREA. ON-STREET PARKING DESIGN DOES NOT INCLUDE SPACES WITHIN 20 FEET OF AN ACCESSIBLE RAMP OR WITHIN 10 FEET OF A DRIVEWAY APPROACH.

NOTE: INTERSECTION SIGHT TRIANGLES ARE DISTINCT FROM, AND IN ADDITION TO, CLEAR VISION AREAS. INTERSECTION SIGHT TRIANGLE DIMENSIONS VARY WITH STREET WIDTH, GEOMETRY, TOPOGRAPHY, AND POSTED SPEED; ADDITIONAL CLEARING AS NECESSARY TO PROVIDE CLEAR INTERSECTION SIGHT DISTANCE IS ALSO REQUIRED; SEE CHAPTER 3.3 OF THE CITY OF BEND DESIGN STANDARDS.

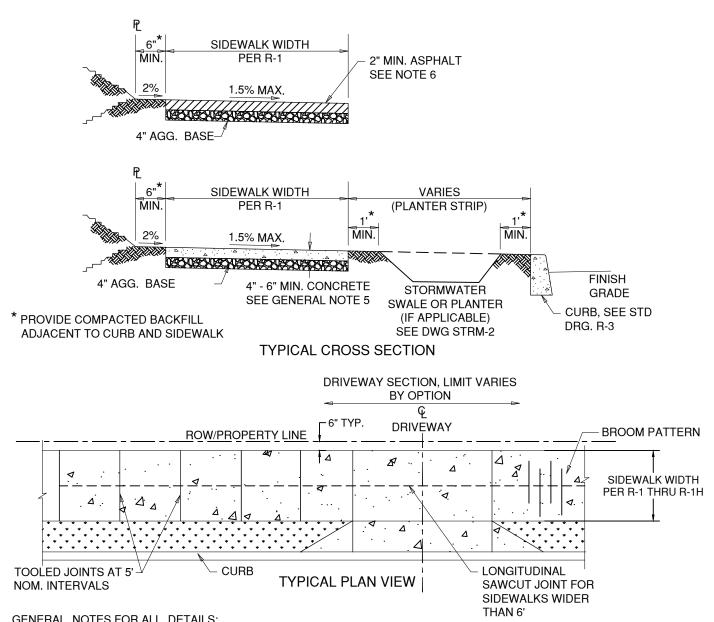
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		CITY OF BEND	CLEAR VISION AREAS AT INTERSECTIONS	STD DWG R-2



NOTES FOR STD DWG R-3:

- 1. EXPANSION JOINTS REQUIRED AT END OF RADII, DRIVEWAY APRONS, POINTS OF CURVATURE, AND NO GREATER THAN 150' MAXIMUM.
- 2. AGGREGATE BASE SHALL CONFORM TO SPECIFICATION SECTION 00640/00641. DEPTH AS REQUIRED TO MATCH BOTTOM OF STREET SECTION, 4" MIN.
- 3. SLOPE DRIVEWAY TOWARD STREET. 3/4" MAXIMUM LIP AT GUTTER, 1" ON COLLECTORS AND ARTERIALS.
- 4. MOUNTABLE CURB PERMITTED ON LOCAL STREET CUL-DE-SACS, ALLEYS, AND WHERE PERMITTED BY THE CITY ENGINEER. WHERE SIDEWALK ABUTS CURB, SIDEWALK SHALL BE MIN. 6" THICK
- 5. CURB AND GUTTER MAY BE REQUIRED WHEN GUTTER SLOPE IS BETWEEN 0.5% 0.75%.
- 6. CONCRETE MATERIAL AND PLACEMENT SHALL CONFORM TO SPECIFICATION SECTION 00759.
- 7. LOCATE TAPERED CURB ON DOWNSTREAM SIDE OF PEDESTRIAN REFUGE IN CENTER MEDIAN CURB RAMPS TO PROTECT FROM SNOW PLOW DAMAGE.
- 8. TACK COAT IS TO BE APPLIED TO CURB FACE PRIOR TO PAVING.

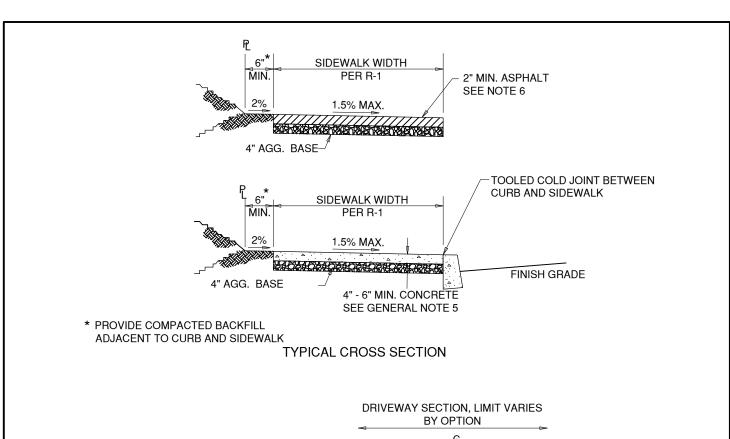
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	CITY OF BEND	CONCRETE CURB NOTES	STD DWG R-3A

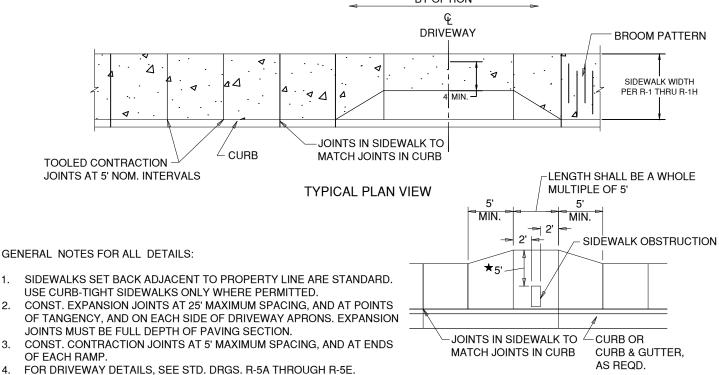


GENERAL NOTES FOR ALL DETAILS:

- SIDEWALKS SET BACK ADJACENT TO PROPERTY LINE ARE STANDARD. USE CURB-TIGHT SIDEWALKS ONLY WHERE PERMITTED. SIDEWALK SHALL BE PROPERTY-TIGHT EXCEPT TO MEANDER AROUND TREES OR BARRIERS (UTILITIES, SIGNS, ETC.) OR PER DESIGN STANDARD SECTION 3.4.7 - HILLSIDE.
- CONST. EXPANSION JOINTS AT 25' MAXIMUM SPACING, AND AT POINTS OF TANGENCY, AND ON EACH SIDE OF DRIVEWAY APRONS. EXPANSION JOINTS MUST BE FULL DEPTH OF PAVING SECTION.
- 3. CONST. CONTRACTION JOINTS AT 5' MAXIMUM SPACING, AND AT ENDS OF EACH RAMP.
- FOR DRIVEWAY DETAILS, SEE STD. DRGS. R-5A THROUGH R-5E.
- SIDEWALK THICKNESS MINIMUM 4" THICK, TYPICAL. MINIMUM 6" THICK IF SIDEWALK IS INTENDED AS PORTION OF DRIVEWAY, CURB RAMP, OR ADJACENT TO MOUNTABLE CURB.
- ASPHALT SHARED-USE PATH WHERE APPROVED BY THE ENGINEER.

-	AWN AJD / ROADWAY	(FD)	CITY OF BEND	SCALE NTS
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L		CITY OF BEND	SHARED-USE PATH/SIDEWALK, SETBACK	STD DWG R-4A





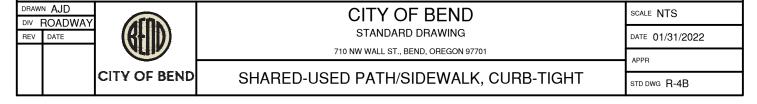
CONST. CONTRACTION JOINTS AT 5' MAXIMUM SPACING, AND AT ENDS

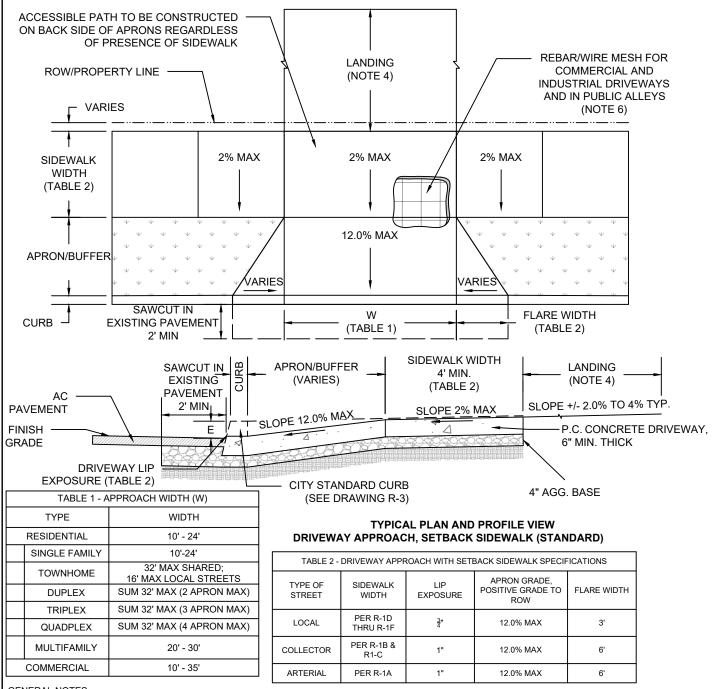
OF EACH RAMP.

- SIDEWALK THICKNESS MINIMUM 4" THICK, TYPICAL. MINIMUM 6" THICK 5. IF SIDEWALK IS PORTION OF DRIVEWAY, CURB RAMP, OR ADJACENT TO MOUNTABLE CURB.
- ASPHALT SHARED-USE PATH WHERE APPROVED BY THE ENGINEER.

★ WHEN SITE CONSTRAINTS PROHIBIT A 5' PASSAGE, THE ENGINEER MAY DIRECT THIS TO BE REDUCED, BUT NO LESS THAN 4'.

> REQUIRED SIDEWALK WIDENING AROUND OBSTRUCTIONS





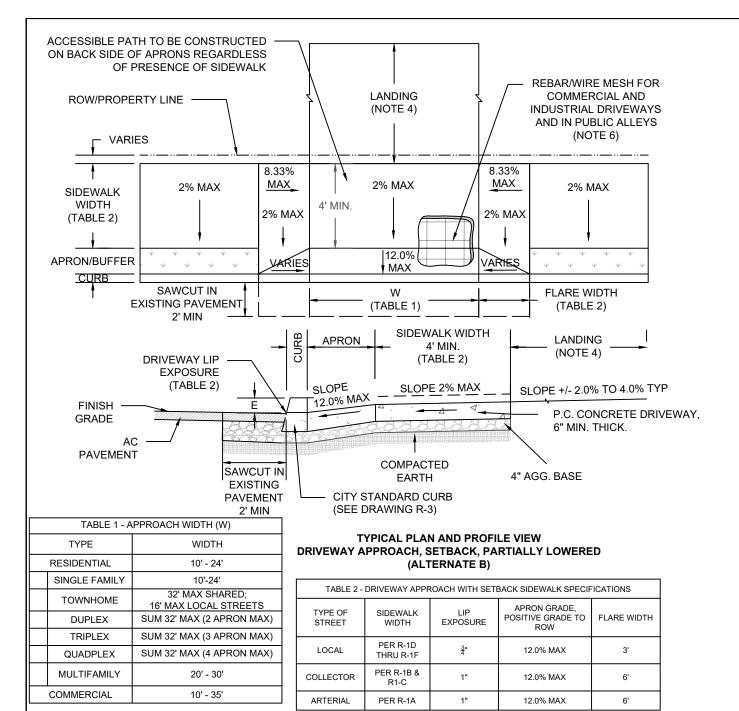
- 1. SIDEWALKS SHALL MEET ALL STANDARDS OF CURRENT PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
- 2. CURB AND SIDEWALK TYPES VARY, SEE PLANS. SEE STD. DRG. R-3 FOR CURB DETAILS. SEE STD. DRGS. R-4A & R-4B FOR SIDEWALK DETAILS.

3. TOOLED JOINTS ARE REQUIRED AT ALL DRIVEWAY SLOPE BREAK LINES.

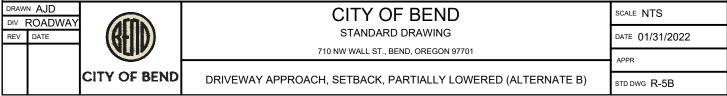
- 4. THE LANDING SHALL BE PAVED WITH CONCRETE OR ASPHALT SURFACE FOR A MINIMUM OF 20 FEET. PAVING BEYOND THE LANDING SHALL BE IN ACCORDANCE WITH THE BEND DEVELOPMENT CODE. CONSTRUCT AS DIRECTED OR AS SHOWN ON PLANS. DO NOT ENTER PRIVATE PROPERTY WITHOUT APPROPRIATE PERMIT OR EASEMENT. MATERIAL WITHIN THE ROW SHALL BE CONCRETE.
- 5. CHECK THE GUTTER FLOW DEPTH AT DRIVEWAY LOCATIONS TO ASSURE THAT THE DESIGN FLOOD DOES NOT OVERTOP THE BACK OF SIDEWALK AT DRIVEWAY. IF OVERTOPPING OCCURS PLACE AN INLET AT UPSTREAM SIDE OF DRIVEWAY OR PERFORM OTHER APPROVED DESIGN MITIGATION.
- 6. #4 REBAR (2'0" ON CENTER, TO BE SUSPENDED TO CENTER OF CONCRETE DEPTH) REQUIRED IN COMMERCIAL AND INDUSTRIAL DRIVEWAYS AND IN PUBLIC ALLEYS. 6"X6" 10 GAUGE MINIMUM WELDED WIRE MAY BE USED IN LIEU OF REBAR.
- 7. CONCRETE DRIVEWAY APRON REQUIRED WHERE SIDEWALK AND/OR CURB IS EXISTING/PROPOSED, OTHERWISE AN ASPHALT APPROACH CAN BE INSTALLED TO EDGE OF PAVEMENT TO SIMILAR WIDTHS OF THE DRIVEWAY APRON AS APPROVED BY THE CITY ENGINEER.
- 8. REFER TO THE BEND DEVELOPMENT CODE 3.1.400 AND 3.6.200 FOR NUMBER AND WIDTH OF APRONS PERMITTED PER LOT.

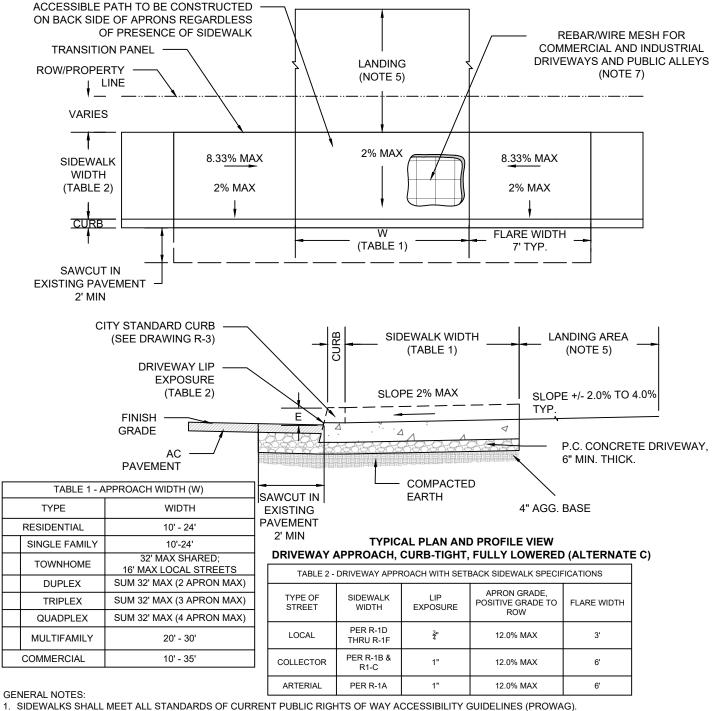
9. THIS SAME STANDARD APPLIES TO ALLEYS

DF	WN AJD ROADWAY	(FO)	CITY OF BEND	SCALE NTS
RE		i (GHID) i	STANDARD DRAWING	DATE 01/31/2022
			710 NW WALL ST., BEND, OREGON 97701	APPR
		CITY OF BEND	DRIVEWAY APPROACH, SETBACK (STANDARD)	STD DWG R-5A



- 1. SIDEWALKS SHALL MEET ALL STANDARDS OF CURRENT PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
- 2. CURB AND SIDEWALK TYPES VARY, SEE PLANS. SEE STD. DRG. R-3 FOR CURB DETAILS. SEE STD. DRGS. R-4A & R-4B FOR SIDEWALK DETAILS.
- 3. TOOLED JOINTS ARE REQUIRED AT ALL DRIVEWAY SLOPE BREAK LINES.
- 4. THE LANDING SHALL BE PAVED WITH CONCRETE OR ASPHALT SURFACE FOR A MINIMUM OF 20 FEET. PAVING BEYOND THE LANDING SHALL BE IN ACCORDANCE WITH THE BEND DEVELOPMENT CODE. CONSTRUCT AS DIRECTED OR AS SHOWN ON PLANS. DO NOT ENTER PRIVATE PROPERTY WITHOUT APPROPRIATE PERMIT OR EASEMENT. MATERIAL WITHIN THE ROW SHALL BE CONCRETE.
- 5. CHECK THE GUTTER FLOW DEPTH AT DRIVEWAY LOCATIONS TO ASSURE THAT THE DESIGN FLOOD DOES NOT OVERTOP THE BACK OF SIDEWALK AT DRIVEWAY. IF OVERTOPPING OCCURS PLACE AN INLET AT UPSTREAM SIDE OF DRIVEWAY OR PERFORM OTHER APPROVED DESIGN MITIGATION.
- 6. #4 REBAR (2'0" ON CENTER, TO BE SUSPENDED TO CENTER OF CONCRETE DEPTH) REQUIRED IN COMMERCIAL AND INDUSTRIAL DRIVEWAYS AND IN PUBLIC ALLEYS. 6"X6" 10 GAUGE MINIMUM WELDED WIRE MAY BE USED IN LIEU OF REBAR.
- 7. CONCRETE DRIVEWAY APRON REQUIRED WHERE SIDEWALK AND/OR CURB IS EXISTING/PROPOSED, OTHERWISE AN ASPHALT APPROACH CAN BE INSTALLED TO EDGE OF PAVEMENT TO SIMILAR WIDTHS OF THE DRIVEWAY APRON AS APPROVED BY THE CITY ENGINEER.
- 8. REFER TO THE BEND DEVELOPMENT CODE 3.1.400 AND 3.6.200 FOR NUMBER AND WIDTH OF APRONS PERMITTED PER LOT.
- THIS SAME STANDARD APPLIES TO ALLEYS



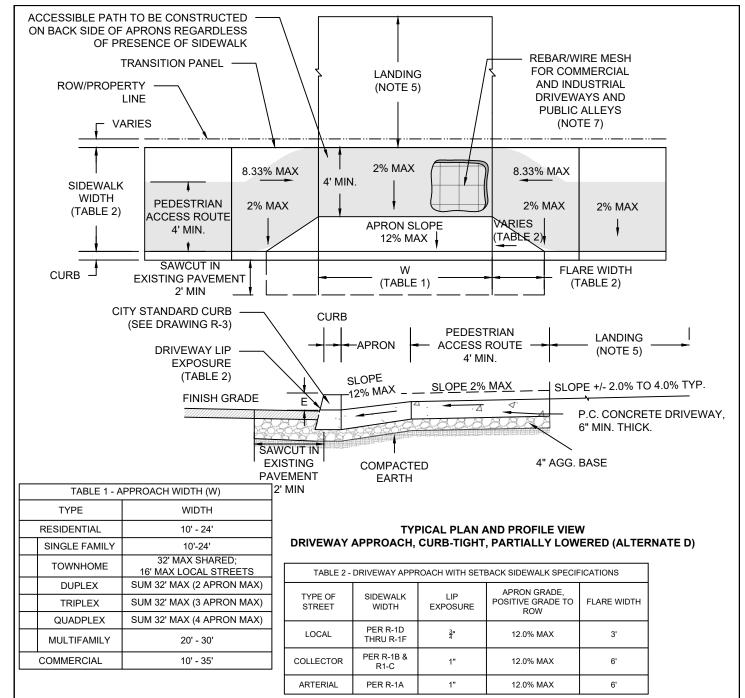


- 2. CURB AND SIDEWALK TYPES VARY, SEE PLANS. SEE STD. DRG. R-3 FOR CURB DETAILS. SEE STD. DRGS. R-4A & R-4B FOR SIDEWALK DETAILS.

3. TOOLED JOINTS ARE REQUIRED AT ALL DRIVEWAY SLOPE BREAK LINES

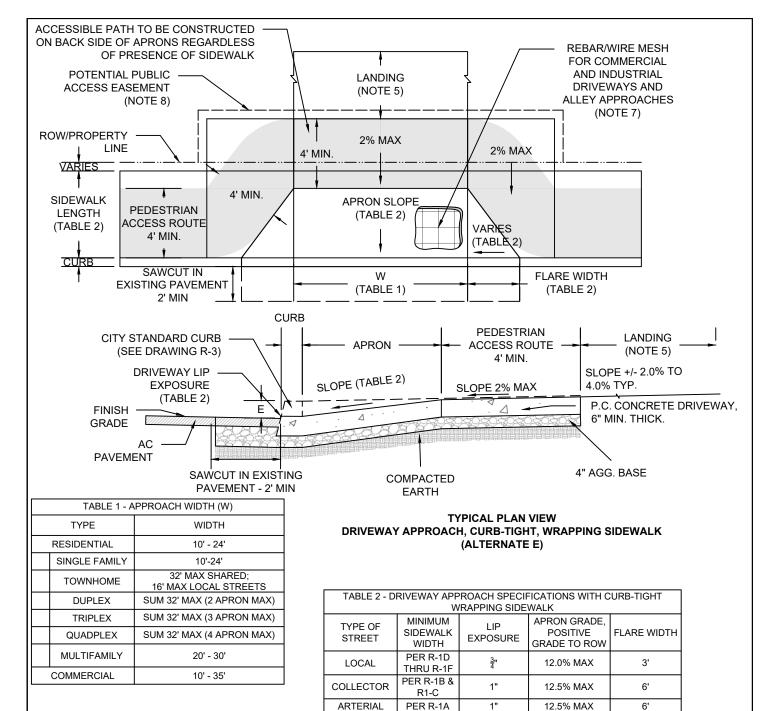
- 4. THE LANDING SHALL BE PAVED WITH CONCRETE OR ASPHALT SURFACE FOR A MINIMUM OF 20 FEET. PAVING BEYOND THE LANDING SHALL BE IN ACCORDANCE WITH THE BEND DEVELOPMENT CODE. CONSTRUCT AS DIRECTED OR AS SHOWN ON PLANS. DO NOT ENTER PRIVATE PROPERTY WITHOUT APPROPRIATE PERMIT OR EASEMENT. MATERIAL WITHIN THE ROW SHALL BE CONCRETE.
- CHECK THE GUTTER FLOW DEPTH AT DRIVEWAY LOCATIONS TO ASSURE THAT THE DESIGN FLOOD DOES NOT OVERTOP THE BACK OF SIDEWALK AT DRIVEWAY. IF OVERTOPPING OCCURS PLACE AN INLET AT UPSTREAM SIDE OF DRIVEWAY OR PERFORM OTHER APPROVED DESIGN MITIGATION.
- 6. #4 REBAR (2'0" ON CENTER, TO BE SUSPENDED TO CENTER OF CONCRETE DEPTH) REQUIRED IN COMMERCIAL AND INDUSTRIAL DRIVEWAYS AND IN PUBLIC ALLEYS. 6"X6" 10 GAUGE MINIMUM WELDED WIRE MAY BE USED IN LIEU OF REBAR.
- CONCRETE DRIVEWAY APRON REQUIRED WHERE SIDEWALK AND/OR CURB IS EXISTING/PROPOSED, OTHERWISE AN ASPHALT APPROACH CAN BE INSTALLED TO EDGE OF PAVEMENT TO SIMILAR WIDTHS OF THE DRIVEWAY APRON AS APPROVED BY THE CITY ENGINEER.
- 8. REFER TO THE BEND DEVELOPMENT CODE 3.1.400 AND 3.6.200 FOR NUMBER AND WIDTH OF APRONS PERMITTED PER LOT.
- 9. THIS SAME STANDARD APPLIES TO ALLEYS

_	wn AJD ROADWAY	(CO)	CITY OF BEND	SCALE NTS
REV	_	(GHID)	STANDARD DRAWING	DATE 01/31/2022
		(UI)	710 NW WALL ST., BEND, OREGON 97701	APPR
		CITY OF BEND	DRIVEWAY APPROACH, CURB-TIGHT, FULLY LOWERED (ALTERNATE C)	STD DWG R-5C



- 1. SIDEWALKS SHALL MEET ALL STANDARDS OF CURRENT PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
- 2. CURB AND SIDEWALK TYPES VARY, SEE PLANS. SEE STD. DRG. R-3 FOR CURB DETAILS. SEE STD. DRGS. R-4A & R-4B FOR SIDEWALK DETAILS.
- 3. TOOLED JOINTS ARE REQUIRED AT ALL DRIVEWAY SLOPE BREAK LINES.
- 4. THE LANDING SHALL BE PAVED WITH CONCRETE OR ASPHALT SURFACE FOR A MINIMUM OF 20 FEET. PAVING BEYOND THE LANDING SHALL BE IN ACCORDANCE WITH THE BEND DEVELOPMENT CODE. CONSTRUCT AS DIRECTED OR AS SHOWN ON PLANS. DO NOT ENTER PRIVATE PROPERTY WITHOUT APPROPRIATE PERMIT OR EASEMENT. MATERIAL WITHIN THE ROW SHALL BE CONCRETE.
- 5. CHECK THE GUTTER FLOW DEPTH AT DRIVEWAY LOCATIONS TO ASSURE THAT THE DESIGN FLOOD DOES NOT OVERTOP THE BACK OF SIDEWALK AT DRIVEWAY. IF OVERTOPPING OCCURS PLACE AN INLET AT UPSTREAM SIDE OF DRIVEWAY OR PERFORM OTHER APPROVED DESIGN MITIGATION.
- 6. #4 REBAR (2'0" ON CENTER, TO BE SUSPENDED TO CENTER OF CONCRETE DEPTH) REQUIRED IN COMMERCIAL AND INDUSTRIAL DRIVEWAYS AND IN PUBLIC ALLEYS. 6"X6" 10 GAUGE MINIMUM WELDED WIRE MAY BE USED IN LIEU OF REBAR.
- 7. CONCRETE DRIVEWAY APRON REQUIRED WHERE SIDEWALK AND/OR CURB IS EXISTING/PROPOSED, OTHERWISE AN ASPHALT APPROACH CAN BE INSTALLED TO EDGE OF PAVEMENT TO SIMILAR WIDTHS OF THE DRIVEWAY APRON AS APPROVED BY THE CITY ENGINEER.
- 8. REFER TO THE BEND DEVELOPMENT CODE 3.1.400 AND 3.6.200 FOR NUMBER AND WIDTH OF APRONS PERMITTED PER LOT.
- 9. THIS SAME STANDARD APPLIES TO ALLEYS

_	RAWN AJD DIV ROADI		CITY OF BEND	SCALE NTS
-	REV DATE		STANDARD DRAWING	DATE 01/31/2022
			710 NW WALL ST., BEND, OREGON 97701	APPR
		CITY OF BEND	DRIVEWAY APPROACH, CURB-TIGHT, PARTIALLY LOWERED (ALTERNATE D)	STD DWG R-5D



- 1. SIDEWALKS SHALL MEET ALL STANDARDS OF CURRENT PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
- 2. CURB AND SIDEWALK TYPES VARY, SEE PLANS. SEE STD. DRG. R-3 FOR CURB DETAILS. SEE STD. DRGS. R-4A & R-4B FOR SIDEWALK DETAILS.

3. TOOLED JOINTS ARE REQUIRED AT ALL DRIVEWAY SLOPE BREAK LINES.

- 4. THE LANDING SHALL BE PAVED WITH CONCRETE OR ASPHALT SURFACE FOR A MINIMUM OF 20 FEET. PAVING BEYOND THE LANDING SHALL BE IN ACCORDANCE WITH THE BEND DEVELOPMENT CODE. CONSTRUCT AS DIRECTED OR AS SHOWN ON PLANS. DO NOT ENTER PRIVATE PROPERTY WITHOUT APPROPRIATE PERMIT OR EASEMENT. MATERIAL WITHIN THE ROW SHALL BE CONCRETE.
- 5. CHECK THE GUTTER FLOW DEPTH AT DRIVEWAY LOCATIONS TO ASSURE THAT THE DESIGN FLOOD DOES NOT OVERTOP THE BACK OF SIDEWALK AT DRIVEWAY. IF OVERTOPPING OCCURS PLACE AN INLET AT UPSTREAM SIDE OF DRIVEWAY OR PERFORM OTHER APPROVED DESIGN MITIGATION.
- 6. #4 REBAR (2'0" ON CENTER, TO BE SUSPENDED TO CENTER OF CONCRETE DEPTH) REQUIRED IN COMMERCIAL AND INDUSTRIAL DRIVEWAYS AND IN PUBLIC ALLEYS. 6"X6" 10 GAUGE MINIMUM WELDED WIRE MAY BE USED IN LIEU OF REBAR.
- 7. CONCRETE DRIVEWAY APRON REQUIRED WHERE SIDEWALK AND/OR CURB IS EXISTING/PROPOSED, OTHERWISE AN ASPHALT APPROACH CAN BE INSTALLED TO EDGE OF PAVEMENT TO SIMILAR WIDTHS OF THE DRIVEWAY APRON AS APPROVED BY THE CITY ENGINEER.
- 8. REFER TO THE BEND DEVELOPMENT CODE 3.1.400 AND 3.6.200 FOR NUMBER AND WIDTH OF APRONS PERMITTED PER LOT.
- 9. THIS SAME STANDARD APPLIES TO ALLEYS

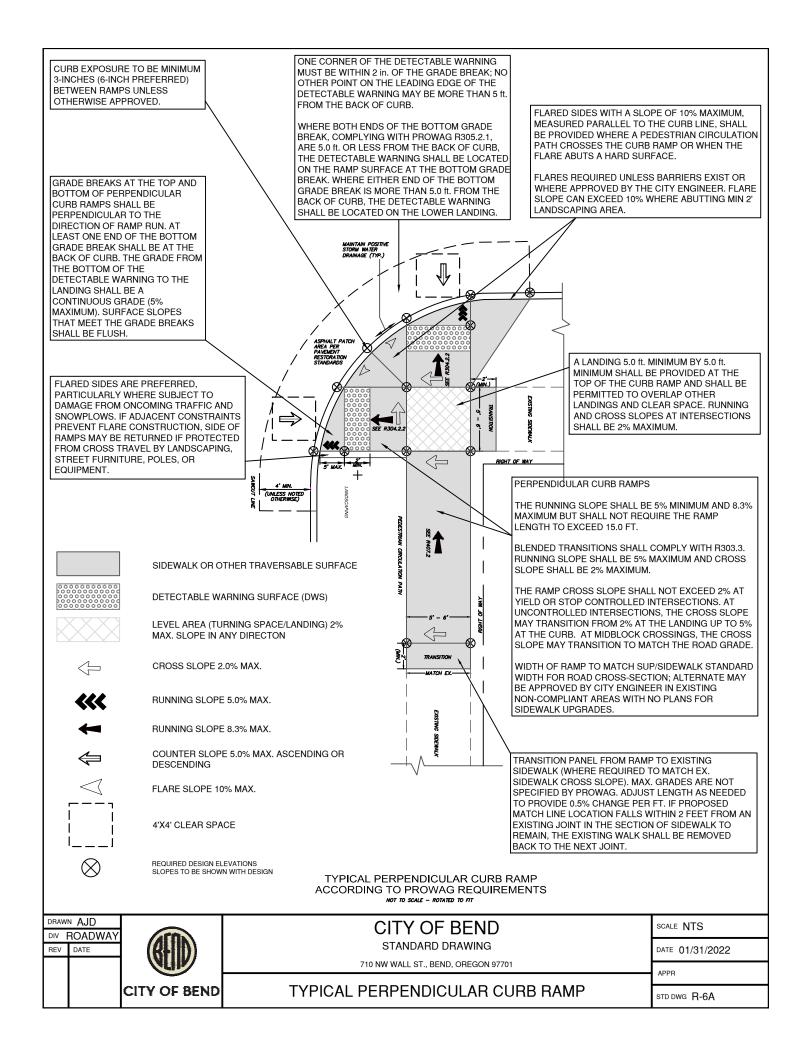
_	AWN AJD V ROADWAY	(AFR)	CITY OF BEND	SCALE NTS
RI		1 (&HID)	STANDARD DRAWING	DATE 01/31/2022
		VUI	710 NW WALL ST., BEND, OREGON 97701	APPR
		CITY OF BEND	DRIVEWAY APPROACH, CURB-TIGHT, WRAPPING SIDEWALK (ALTERNATE E)	STD DWG R-5E

- 1. CITY OF BEND STD DWGS R-6, R-6A, R-6B, AND R-6C ARE INTENDED AS A SUMMARY OF PROWAG REQUIREMENTS. SEE CURRENT PROWAG GUIDELINES FOR COMPLETE REQUIREMENTS.
- 2. SLOPES USED FOR DESIGN ARE TYPICALLY LESS THAN THE MAXIMUMS TO ALLOW FOR CONSTRUCTION TOLERANCES. RECOMMENDED DESIGN SLOPES ARE AS FOLLOWS:

PROWAG MAX. SLOPE	DESIGN MAX. SLOPE
1:10 (10%)	9.5%
1:12 (8.33%)	7.5%
1:20 (5.0%)	4.5%
1:50 (2%)	1.5%

- 3. GRADE BREAKS ARE NOT PERMITTED ON THE SURFACE OF CURB RAMPS, BLENDED TRANSITIONS, LANDINGS, AND GUTTER AREAS WITHIN THE PEDESTRIAN ACCESS ROUTE.
- 4. THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, LANDING, OR BLENDED TRANSITION SHALL BE 5% MAXIMUM.
- 5. SURFACES OF CURB RAMPS, BLENDED TRANSITIONS, AND LANDINGS SHALL COMPLY WITH R302.7. GRATINGS, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON CURB RAMPS, LANDINGS, BLENDED TRANSITIONS AND GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.
- 6. SURFACE DISCONTINUITIES SHALL NOT EXCEED 0.5 in. MAXIMUM. VERTICAL DISCONTINUITIES BETWEEN 0.25 in. AND 0.5 in. MAXIMUM SHALL BE BEVELED AT 1:2 MINIMUM. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE LEVEL CHANGE. SEE PROWAG R302.7.2.
- 7. WHERE SIDEWALKS ARE CONSTRUCTED OUTSIDE THE RIGHT OF WAY, A PUBLIC ACCESS EASEMENT MUST BE RECORDED OVER THE PRIVATE PROPERTY ENCROACHMENT.
- 8. 6 INCHES OF COMMERCIAL GRADE CONCRETE PER CITY SPEC 00440 AND 4 INCHES OF STATE SPEC AGGREGATE PER CITY SPEC 00640/00641 IS REQUIRED FOR CONSTRUCTION OF CURB RAMPS, FLARES, AND LANDINGS.
- 9. DETECTABLE WARNING SURFACES COMPLYING WITH PROWAG R305 SHALL BE PROVIDED, WHERE A CURB RAMP, LANDING, OR BLENDED TRANSITION CONNECTS TO A STREET.
- 10. DETECTABLE WARNING SURFACES SHALL EXTEND 24 in. MINIMUM IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARES), THE LANDING, OR THE BLENDED TRANSITION.
- 11. THE ROWS OF TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP, LANDING, OR BLENDED TRANSITION AND THE STREET.
- 12. THE CLEAR WIDTH OF LANDINGS BLENDED TRANSITIONS, AND CURB RAMPS, EXCLUDING FLARES, SHALL BE 4.0 FT. MINIMUM.

	N AJD ROADWAY	CITY OF BEND	SCALE NTS
-	DATE (R-11)	STANDARD DRAWING	DATE 01/31/2022
		710 NW WALL ST., BEND, OREGON 97701	APPR
	CITY OF BEND	CURB RAMP GENERAL NOTES	STD DWG R-6



TRANSITION PANEL FROM RAMP TO EXISTING SIDEWALK (WHERE REQUIRED TO MATCH EX. SIDEWALK CROSS SLOPE). MAX. GRADES ARE NOT SPECIFIED BY PROWAG. ADJUST LENGTH AS NEEDED TO PROVIDE SMOOTH TRANSITION. IF PROPOSED MATCH LINE LOCATION FALLS WITHIN 2 FEET FROM AN EXISTING JOINT IN THE SECTION OF SIDEWALK TO REMAIN, THE EXISTING WALK SHALL BE REMOVED BACK TO THE NEXT JOINT. GRADE BREAKS AT THE TOP AND BOTTOM OF PARALLEL CURB RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF RAMP RUN. SURFACE SLOPES THAT MEET THE GRADE BREAKS SHALL BE FLUSH. 5' OR MATCHING SIDEWALK WIDTH LANDSCAPING DISTANCE VARIE TORM WATER PARALLEL CURB RAMPS ERTICAL CURB THE RUNNING SLOPE SHALL BE 8.33% RIGHT OF WAY MAXIMUM BUT SHALL NOT REQUIRE THE RAMP 5.0 FT. BY 5.0 FT. IS MINIMUM LANDING LENGTH TO EXCEED 15.0 FT. DIMENSIONS PREFERRED. WHERE THE TURNING SPACE IS CONSTRAINED AT THE THE CROSS SLOPE SHALL BE 2% MAXIMUM. BACK-OF-SIDEWALK, THE TURNING SPACE SHALL BE 4.0 FT. MINIMUM BY 5.0 FT THE CLEAR WIDTH OF LANDINGS BLENDED MINIMUM. THE 5.0 FT DIMENSION SHALL BE TRANSITIONS, AND CURB RAMPS, EXCLUDING PROVIDED IN THE DIRECTION OF THE RAMP FLARES, SHALL BE 4.0 ft. MINIMUM. RUN. LANDING WIDTH SHALL MATCH THE ADJACENT THE SLOPE PARALLEL TO THE CURB SHALL LANDSCAPING SIDEWALK WIDTH, 5.0 FT MIN., UNLESS NOT EXCEED 2% AT YIELD OR STOP OTHERWISE APPROVED. CONTROLLED INTERSECTIONS. AT UNCONTROLLED INTERSECTIONS, THE SLOPE PARALLEL TO THE CURB MAY BE UP TO 5%. AT MIDBLOCK CROSSINGS, THE SLOPE PARALLEL TO THE CURB MAY MATCH THE ROAD GRADE. EXISTING SIDEWALK

TYPICAL PARALLEL CURB RAMP ACCORDING TO PROWAG REQUIREMENTS NOT TO SCALE - ROTATED TO FIT

SIDEWALK OR OTHER TRAVERSABLE SURFACE

> DETECTABLE WARNING SURFACE (DWS)

LEVEL AREA (TURNING SPACE/LANDING) 2% MAX. SLOPE IN ANY DIRECTON

CROSS SLOPE 2.0% MAX.

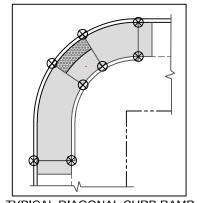
RUNNING SLOPE 8.3% MAX.

COUNTER SLOPE 5.0% MAX. ASCENDING OR

DESCENDING

4'X4' CLEAR SPACE

REQUIRED DESIGN ELEVATIONS SLOPES TO BE SHOWN WITH DESIGN



TYPICAL DIAGONAL CURB RAMP
REQUIRES CITY APPROVAL FOR CONSTRUCTION
ACCORDING TO PROWAG REQUIREMENTS
NOT TO SCALE - ROTATED TO FIT
NOTE: DIAGONAL CURB RAMP ALTERNATE IS ONLY ALLOWED WHEN DIRECTIONAL

NOTE: DIAGONAL CURB RAMP ALTERNATE IS ONLY ALLOWED WHEN DIRECTIONAL RAMPS ARE NOT POSSIBLE AND MUST BE APPROVED BY THE CITY ENGINEER.

DRAWN AJD
DIV ROADWAY
REV DATE

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CITY OF BEND

STANDARD DRAWING

710 NW WALL ST., BEND, OREGON 97701

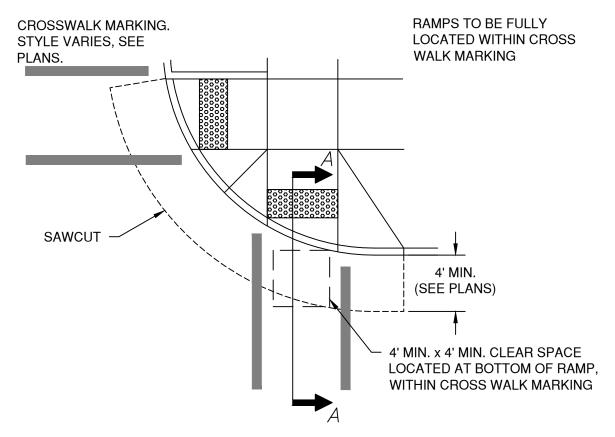
TYPICAL PARALLEL CURB RAMP

SCALE NTS

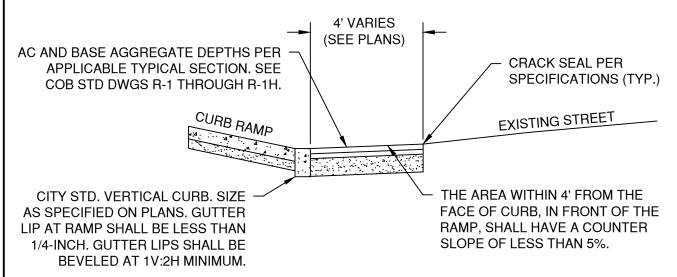
DATE 01/31/2022

APPR

STD DWG R-6B



CROSS WALK - CURB RAMP ORIENTATION NOT TO SCALE

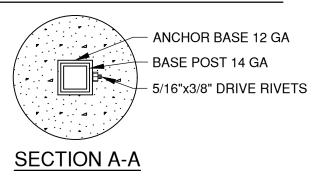


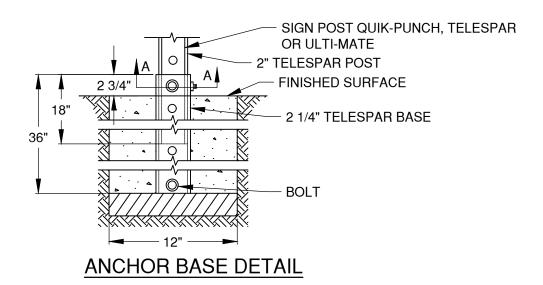
NOTE: IN AREAS WITH UNIT PAVER CROSS WALKS, REMOVE EXISTING PAVERS, AND RE-INSTALL AT GRADES TO ACHIEVE THESE REQUIREMENTS.

TYPICAL RAMP / ASPHALT PATCH SECTION NOT TO SCALE

DRA	ROADWAY	(FD)	CITY OF BEND	SCALE NTS
RE	_	CITY OF BEND	STANDARD DRAWING	DATE 01/31/2022
			710 NW WALL ST., BEND, OREGON 97701	APPR
	į		CURB RAMP DETAILS	STD DWG R-6C
╙		·		SIDDWG N-OC

INSTALLATION IN NEW CONSTRUCTION

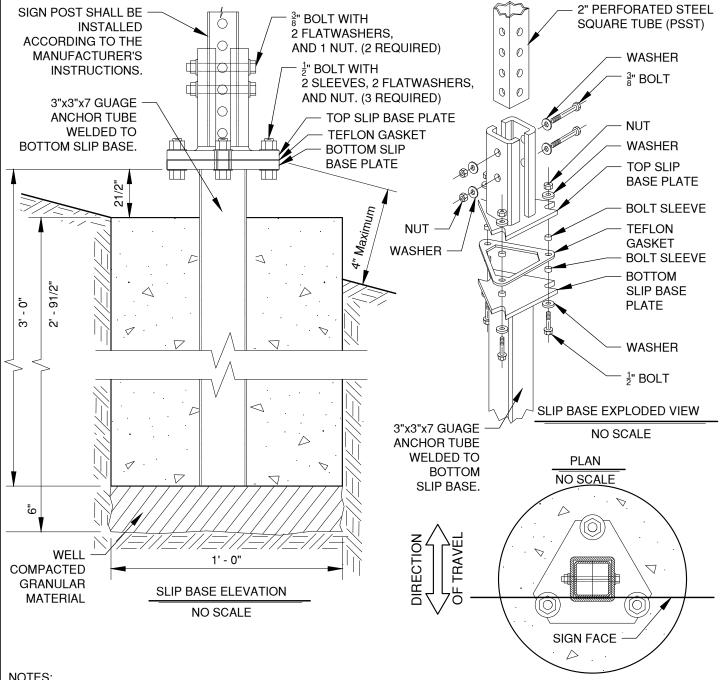




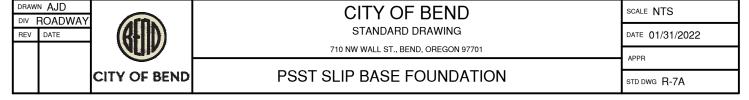
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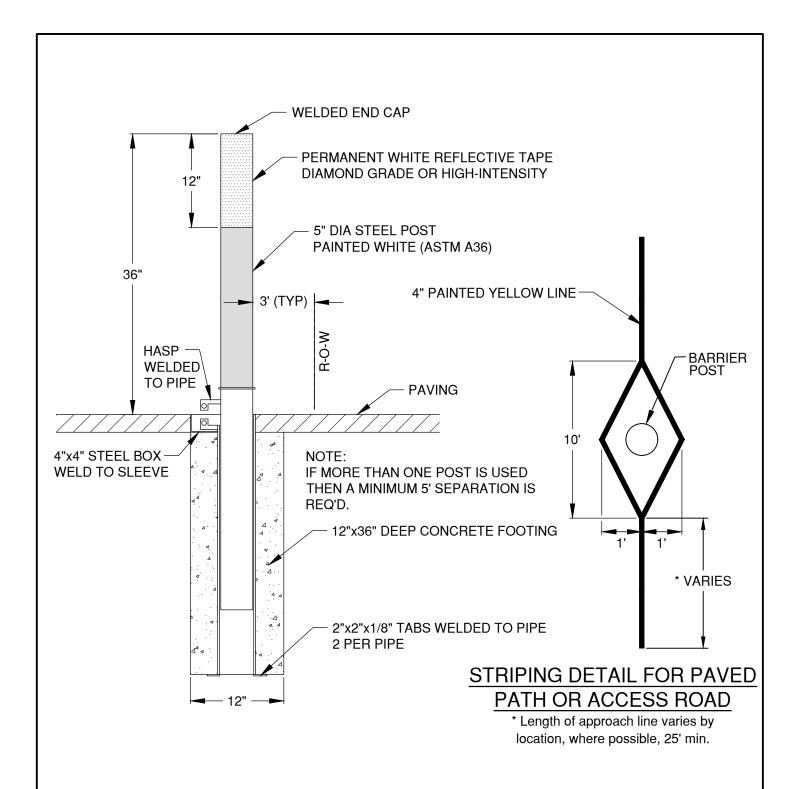
- 1. USE PSST ANCHOR BASE FOUNDATION FOR ALL SIGN LOCATIONS OTHER THAN IN MEDIANS AND ROUNDABOUT SPLITTER ISLANDS PER STD DWG R-7A.
- 2. ANCHOR BASE HOLES AND BOTTOM OF ANCHOR BASE SHALL BE COVERED SO THAT CONCRETE DOES NOT SEEP INTO ANCHOR BASE DURING SETTING
- BASE SHOULD BE SET SEPARATELY FROM POST WITH ANCHOR BOLT IN BASE BOTTOM ONLY
- 4. POST SHOULD BE ABLE TO SLIDE FREELY WHEN RIVET IS REMOVED
- 5. FOR LARGE SIGNS THAT EXCEED WINDLOADS 2 1/2" POSTS MAY BE APPROVED BY CITY ENGINEER

-	™ AJD ROADWAY	(CO)	CITY OF BEND	SCALE NTS
REV	DATE	(ALIN)	STANDARD DRAWING	DATE 01/31/2022
1		WILLIAM	710 NW WALL ST., BEND, OREGON 97701	APPR
1			DOOT ANOLIOD DAOF FOLINDATION	
		CITY OF BEND	PSST ANCHOR BASE FOUNDATION	STD DWG R-7



- 1. USE PSST SLIP BASE FOUNDATION FOR SIGNS INSTALLED IN MEDIANS AND ROUNDABOUT SPLITTER ISLANDS.
- 2. MATERIAL GRADE FOR BASE HARDWARE CONNECTION SHALL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATION AND BASED ON CRASH TESTING.
- 3. SLIP BASE STEEL SHALL BE HOT DIPPED GALVANIZED OR APPROVAL EQUAL.
- 4. FOOTING CONCRETE SHALL BE COMMERCIAL GRADE CONCRETE (FC=3000PSI) PER SPECIFICATION 00440. THE CGC MIXTURE MAY BE ACCEPTED AT THE SITE OF PLACEMENT ACCORDING TO 00440.14.
- 5. ALL SLIP BASES SHALL BE PRE-ASSEMBLED BY THE MANUFACTURER AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- 6. SLIP BASE DETAILS SHOWN ARE NOT FOR A SPECIFIC MANUFACTURER AND ARE ONLY SHOWN TO CONVEY GENERAL PIECES OF A SLIP BASE SYSTEM. SPECIFIC SLIP BASE MATERIAL WILL BE ACCORDING TO THE MANUFACTURER'S DOCUMENTATION.
- 7. FOR LARGE SIGNS THAT EXCEED WINDLOADS, 2 1/2" PSST MAY BE APPROVED BY CITY ENGINEER

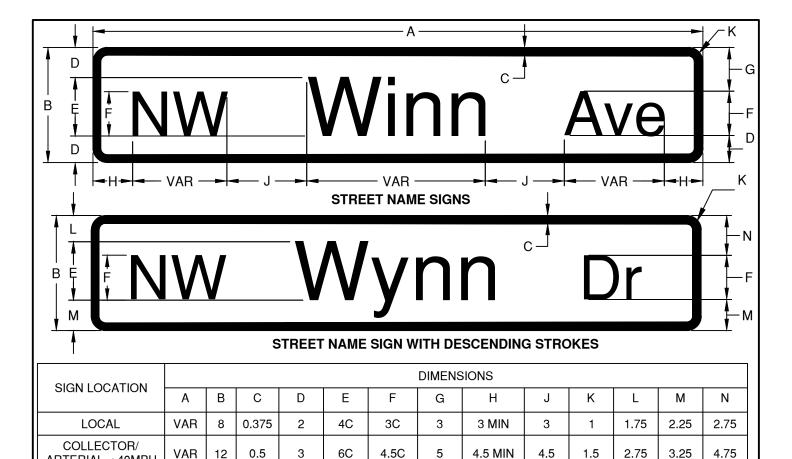




NOTES:

- 1. POSTS OR BOLLARDS SHALL BE SET BACK BEYOND THE CLEAR ZONE OF THE ADJACENT STREET OR BE OF A BREAKAWAY DESIGN. THE POST SHALL BE PERMANENTLY REFLECTORIZED FOR NIGHTTIME VISIBILITY AND PAINTED WHITE FOR IMPROVED DAYTIME AND NIGHT TIME VISIBILITY.
- 2. ON PAVED PATHS OR ACCESS ROADS, APPLY PAVEMENT MARKINGS PER STRIPING DETAIL.

_	NN AJD ROADWAY	CITY OF BEND	SCALE NTS
REV		STANDARD DRAWING	DATE 01/31/2022
		710 NW WALL ST., BEND, OREGON 97701	APPR
	CITY OF BEND	REMOVABLE POST AND MARKINGS	STD DWG R-7B



NOTES:

ARTERIAL < 40MPH COLLECTOR/

ARTERIAL > 40 MPH **OVERHEAD**

SIGNS INSTALLED ALONG PUBLIC STREETS SHALL BE FABRICATED AND INSTALLED TO CONFORM TO THE MUTCD AND CITY OF BEND SPECIFICATIONS.

6C

9C

UNLESS OTHERWISE SPECIFIED, STREET NAME SIGNS SHALL BE FABRICATED AS FOLLOWS:

5

6

8C

12C

- a. SIGN SUBSTRATE: SHEET ALUMINUM (GAUGE 0.80 FOR GROUND-MOUNT) WITH ROUNDED CORNERS
- b. RETRO-REFLECTIVE SHEETING: GREEN BACKGROUND WITH WHITE LEGEND, USING HIP/TYPE G FOR GROUND-MOUNTED SIGNS, AND DIAMOND GRADE/TYPE G2 FOR SIGNS MOUNTED OVERHEAD:

7.67

10

5.33 MIN

9 MIN

1.875

2.25

6

9

5

5

5

6

7.67

9.50

c. LETTERING SHALL BE LOWER-CASE WITH INITIAL UPPER-CASE LETTERS;

0.75

1

- d. SERIES C2000 FONT, WITH LETTERING AND LETTER SPACING PER THE FEDERAL HIGHWAY ADMINISTRATION'S STANDARD ALPHABETS AS SHOWN IN THE CURRENT EDITION OF THE STANDARD HIGHWAY SIGNS AND PAVEMENT MARKINGS MANUAL. (* EXCEPT FOR OVERHEAD SIGNS, WHERE SIGNS EXCEED 36" LONG, SERIES B2000 FONT SHALL BE USED);
- e. BOTTOM STREET SIGNS (CLOSEST TO THE REGULATORY/STOP SIGN) SHALL BE TWO SINGLE-SIDED WITH PREDRILLED HOLES. SIGNS SHALL BE RIVETED BACK TO BACK ON THE SQUARE TUBE POST, CENTERED ON THE POST.
- BOTTOM STREET SIGNS SHALL BE USED FOR SIDE STREET.

12

18

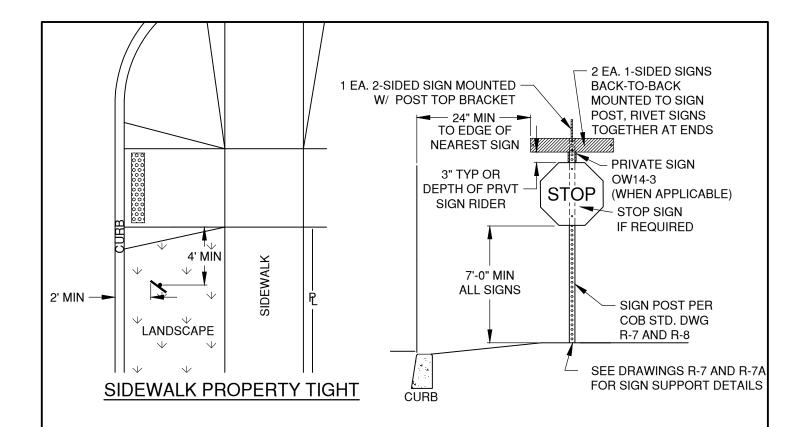
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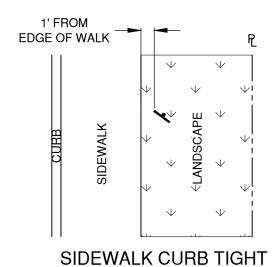
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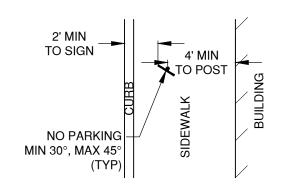
VAR

- g. TOP STREET SIGN SHALL BE DOUBLE SIDED. TOP SIGN USED FOR MAINLINE STREET.
- ALL SIGNS SHALL BE REVIEWED AND APPROVED BY THE CITY OF BEND ENGINEERING DEPARTMENT PRIOR TO FABRICATIONS AND INSTALLATION.
- TYPICAL INSTALLATION INCLUDES 2-INCH SQUARE TUBE CAPS WITH 90-DEGREE ANGLE BRACKETS ON 2-INCH PERFORATED SQUARE TUBE STEEL POSTS. USE 5- OR 6-INCH BLADE MOUNTS FOR SIGNS LESS THAN 36" WIDE; 12-INCH MOUNTS FOR SIGNS 36-INCHES OR WIDER OR OVER 6-INCHES HIGH. SEE STANDARD DRAWINGS R-7 AND R-9.
- 5. SIGN WIDTHS VARY WITH LEGEND. WHERE SITE CONSTRAINTS LIMIT AVAILABLE SPACE, REDUCED LETTER HEIGHT, FONT STYLE, LINE SPACING, OR EDGE SPACING WILL BE CONSIDERED. REDUCTIONS IN SPACING BETWEEN LETTERS OR WORDS IS NOT PERMITTED.
- 6. WHERE PRIVATE STREETS INTERSECT WITH PUBLIC STREETS. INSTALL A BLACK ON YELLOW PRIVATE DR SIGN WITH 4-INCH CAPITAL LETTERS (ODOT SIGN POLICY SIGN #OW14-3) DIRECTLY BELOW THE PRIVATE STREET NAME SIGN (OR ON A SEPARATE POST, IF NOT AT AN INTERSECTION).
- FOR ADDITIONAL INFORMATION, REFER TO MUTCD SECTION 2A AND 2D, AND CITY OF BEND TECHNICAL SPECIFICATION SECTION 00940. CONFIRM SIGN SIZE WITH CITY ENGINEER FOR SIGNS ON EXISTING TRAFFIC SIGNAL POLES OR MAST ARMS.

L				CITY OF BEND	STANDARD STREET NAME SIGNS	STD DWG R-8
ı				·ui-	710 NW WALL ST., BEND, OREGON 97701	APPR
F	REV	DATE	APPR		STANDARD DRAWING	DATE 01/31/2022
\vdash		≀ AJD ROADWA`	Y	AFTIN	(Grip)	





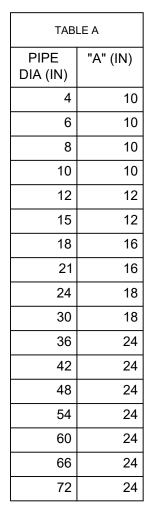


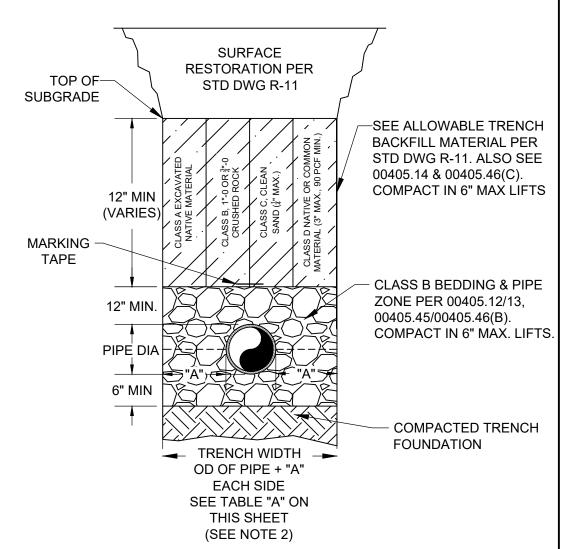
SIDEWALK FROM CURB TO NEAR BUILD

NOTES:

- 1. SET TO MUTCD SPECS
- 2. SEE R-8 FOR COB STREET NAME SIGN REQUIREMENTS.
- 3. CHECK THAT SIGN IS NOT OBSCURED BY VEGETATION, TRIM IF NEEDED.
- 4. INSTALL ALL SIGNS WITH 5/16"X3/8" DRIVE RIVETS

-	N AJD ROADWAY	CITY OF BEND	SCALE NTS
REV	DATE ((R)	STANDARD DRAWING	DATE 01/31/2022
		710 NW WALL ST., BEND, OREGON 97701	APPR
	CITY OF BEND	STANDARD STREET SIGN PLACEMENT	STD DWG R-9

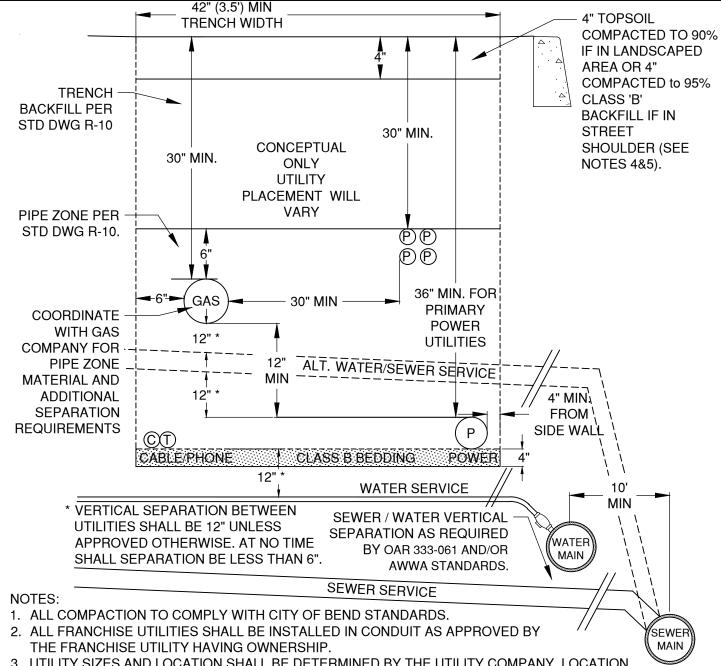




NOTES:

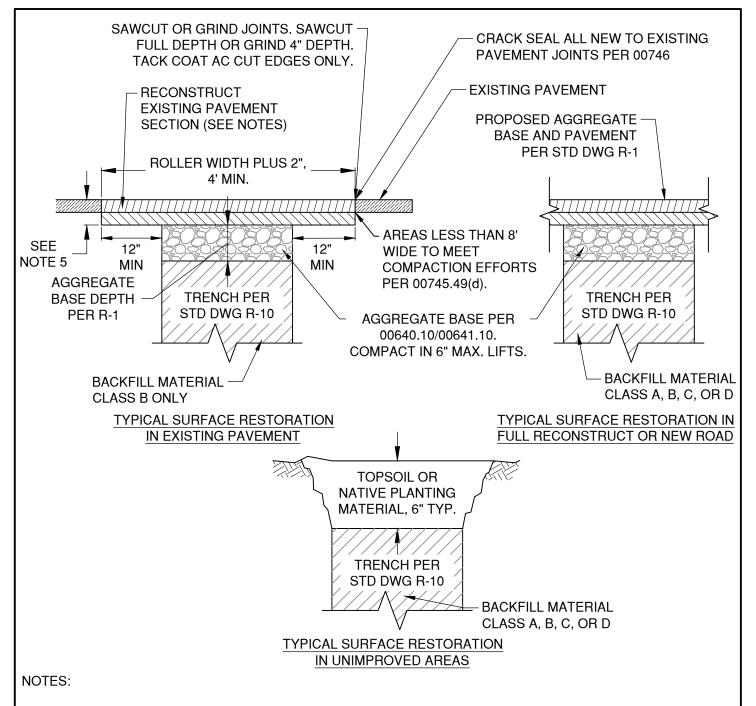
- 1. ALL COMPACTION TO COMPLY WITH SPECIFICATION SECTION 00330.43 AND 00405.46(c).
- 2. A FRANCHISE UTILITY THAT IS A SINGLE CONDUIT AND IS 4 INCHES IN DIAMETER OR LESS MAY BE CENTERED IN A 12-INCH WIDE TRENCH PROVIDED THAT THE TRENCH CAN ACCOMMODATE THE COMPACTION EQUIPMENT. TRENCH PATCH SHALL BE IN ACCORDANCE WITH STD DWG R-11 WHERE THE TEE PATCH SHALL NOT BE LESS THAN 12 INCHES ON BOTH SIDES OF THE TRENCH. OVERALL WIDTH MAY BE REDUCED FROM 4 FEET, BUT IN NO CIRCUMSTANCES RESULT IN TEE PATCHES LESS THAN 12 INCHES AND AN OVERALL MINIMUM WIDTH OF 3 FEET.
- 3. CLASS E CLSM, MAY BE ALLOWED FOR TRENCH BACKFILL WHERE COMPACTION CANNOT BE MET DUE TO THE PRESENCE OF EXISTING UTILITIES

		CITY OF BEND	TYPICAL TRENCH SECTION	STD DWG R-10
		CIII	·	APPR
\vdash	+		710 NW WALL ST., BEND, OREGON 97701	011011/2022
RE		(OLIIN)	STANDARD DRAWING	DATE 01/31/2022
_	WN AJD ROADWAY	(50)	CITY OF BEND	SCALE NTS

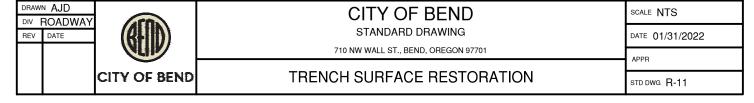


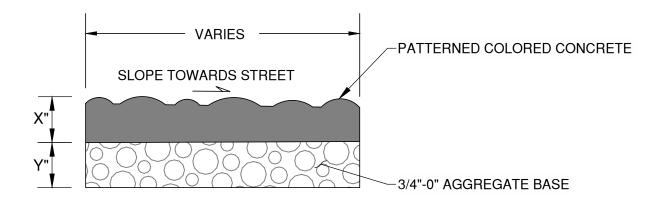
- 3. UTILITY SIZES AND LOCATION SHALL BE DETERMINED BY THE UTILITY COMPANY. LOCATION TO BE SHOWN AND APPROVED BY CITY WITH A RIGHT OF WAY (ROW) PERMIT.
- 4. WHERE STORM SWALES ARE PROPOSED WITHIN THE LANDSCAPE STRIP, FRANCHISE UTILITIES SHALL BE INSTALLED OUTSIDE OF THE SWALE AREA.
- 5. TOP SOIL LAYER TO BE COMPACTED TO 90% MAX DENSITY. WHERE SIDEWALK IS PLACED OVER FRANCHISE UTILITY TRENCH, NO TOP SOIL SHALL BE PLACED AND SIDEWALK TO BE CONSTRUCTED TO COMPLY WITH CITY STANDARDS R-4A AND R-4B
- 6. STANDARD SHOWN FOR NEW CONSTRUCTION. MODIFICATIONS SHALL BE MADE WHEN WITHIN EXISTING DEVELOPMENTS WHERE APPROVED BY THE CITY ENGINEER.
- 7. UTILITIES OUTSIDE THE RIGHT OF WAY SHALL BE WITHIN A PUBLIC UTILITIES EASEMENT (PUE). BACKFILL AND INSTALLATION REQUIREMENTS STILL COMPLY WITH THE PUE.
- 8. NO SWALES OR SURFACE STORMWATER DRAINAGE FACILITIES ARE PERMITTED OVER FRANCHISE UTILITIES.

	С	ITY OF BEND	FRANCHISE UTILITY JOINT TRENCH	STD DWG R-10A
			710 NW WALL ST., BEND, OREGON 97701	APPR
REV	DATE	am	STANDARD DRAWING	DATE 01/31/2022
_	N AJD ROADWAY	\overline{Y}	CITY OF BEND	SCALE NTS



- SURFACE RESTORATION IN EXISTING PAVEMENT TO COMPLY WITH SPECIFICATION 00495.
- UNIMPROVED AREA CONSISTS OF ANY PORTION OF THE ROW THAT HAS NOT BEEN IMPROVED TO A CITY STANDARD AND CONSISTS MOSTLY OF NATIVE VEGETATED AREAS. UNIMPROVED AREAS ALSO INCLUDE AREAS WITHIN THE LANDSCAPE STRIP AND PUEs.
- 3. ALL EXISTING AC OR PCC PAVEMENT SHALL BE SAWCUT PRIOR TO REPAVING. CONCRETE SHALL BE CUT AND REPLACED TO THE NEAREST JOINT(S).
- 4. CONCRETE PAVEMENT SHALL BE REPLACED WITH CONCRETE TO A MINIMUM THICKNESS OF 6" OR TO THE THICKNESS OF REMOVED PAVEMENT, WHICHEVER IS GREATER
- 5. PLACE ACP A MINIMUM THICKNESS PER R-1 OR TO THE THICKNESS OF REMOVED PAVEMENT, WHICHEVER IS GREATER. PLACE ACP IN 2" MAX LIFTS.





X DIMENSION:

- MEDIAN/ALL ADJACENT TO TRAVEL LANE = 6"
- ONLY BACK SIDE OF SIDEWALK OR SEPARATE FROM TRAVEL LANE = 4"
- TRUCK APRON = 9"

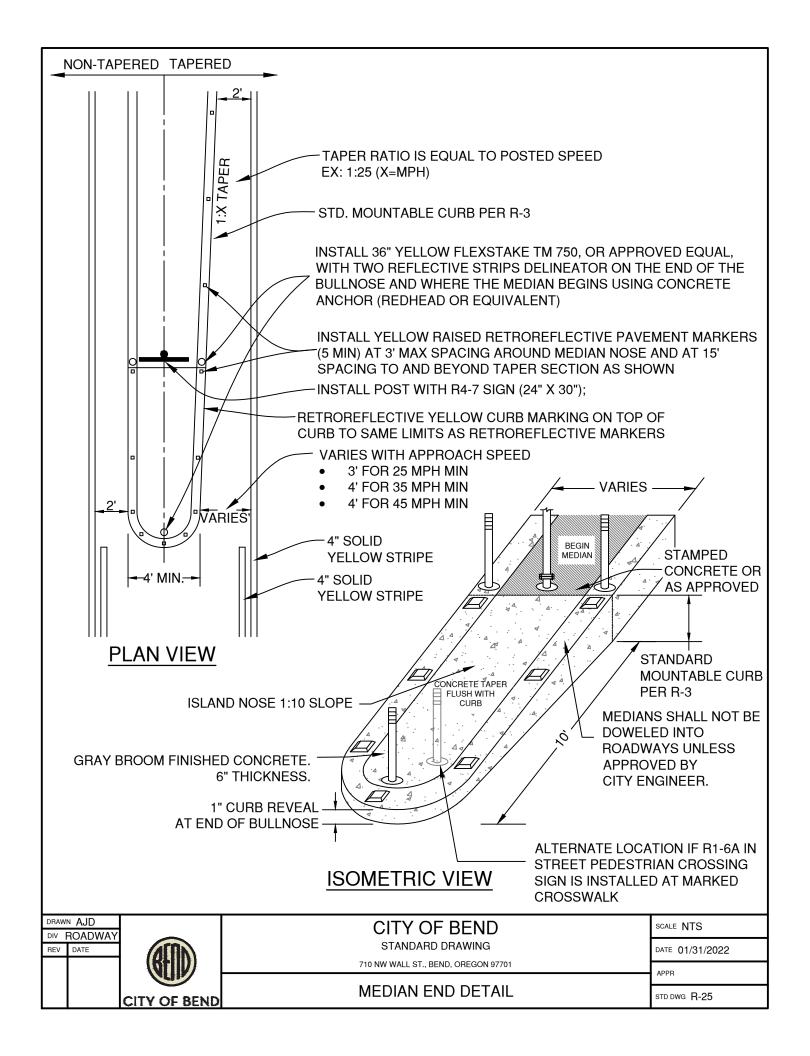
Y DIMENSION:

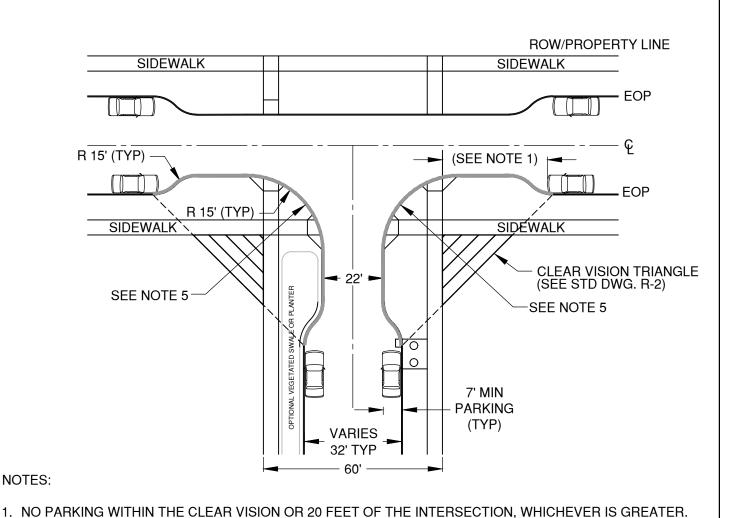
- MEDIAN/ALL ADJACENT TO TRAVEL LANE = 6"
- ONLY BACK SIDE OF SIDEWALK OR SEPARATE FROM TRAVEL LANE = 4"
- TRUCK APRON = 6"

NOTE:

- 1. STAMPED CONCRETE SURFACE TEXTURE PATTERN SHALL BE BRICKFORM "FLAGSTONE" TM-700) WITH SAWCUT GROOVE JOINTS 1/3 CONCRETE DEPTH.
- 2. GLAZE AND SEAL PER MANUFACTURERS SPECS.
- 3. INTEGRAL COLOR: DAVIS SPANISH GOLD (3 LBS. #5084)
- 4. RELEASE COLOR: DAVIS DARK GREY (#860)

	CITY OF BEND	PATTERNED COLORED CONCRETE DETAIL	STD DWG R-24
	(griid)	710 NW WALL ST., BEND, OREGON 97701	APPR
REV	DATE	STANDARD DRAWING	DATE 01/31/2022
-	N AJD ROADWAY	CITY OF BEND	SCALE NTS





2. AS REQUIRED BY THE CITY ENGINEER, INSTALL YELLOW 36" TALL YELLOW SURFACE MOUNTED

3. USE LOW GROWING VEGETATION FOR BIORETENTION SWALES/ PLANTERS LOCATED IN CURB

4. CURB RETURNS TO BE CONSTRUCTED PER DESIGN STANDARD.

EXTENSIONS.

CITY OF BEND

DRAWN AJD

REV DATE

DIV ROADWAY

TUBULAR MARKERS, PER SPECIFICATION SECTION 00856 FOR PLOW SIGNAGE AT CURB EXTENSIONS.

5. YELLOW CURB PAINT ON RETURNS IS REQUIRED IN COMMERCIAL AND HIGH DENSITY RESIDENTIAL AREAS

CITY OF BEND

STANDARD DRAWING

710 NW WALL ST., BEND, OREGON 97701

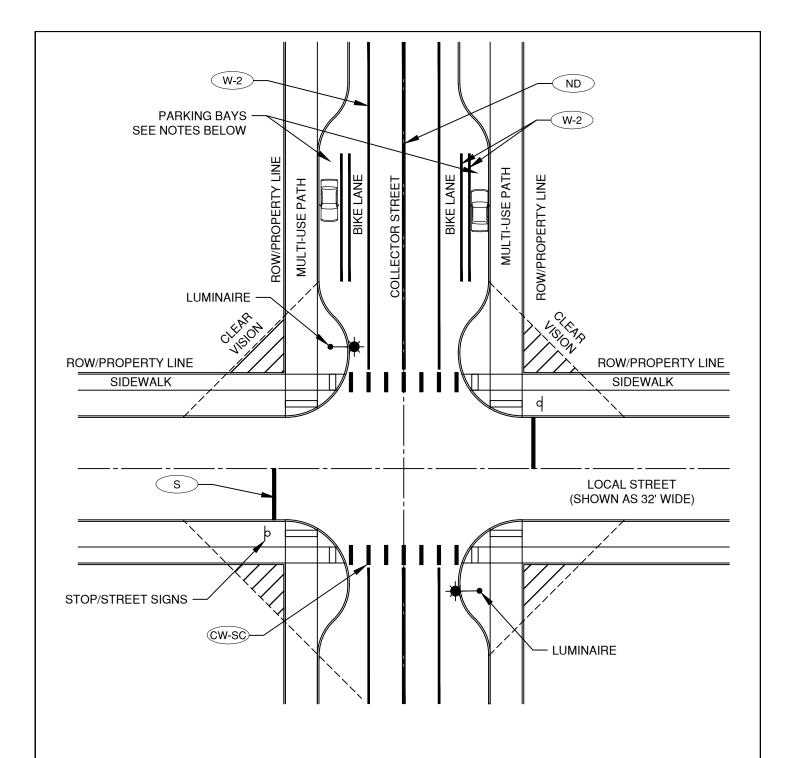
LOCAL STREET CURB EXTENSIONS

SCALE NTS

APPR

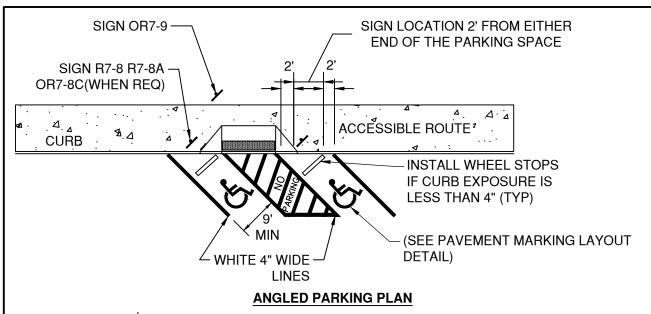
DATE 01/31/2022

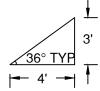
STD DWG R-26



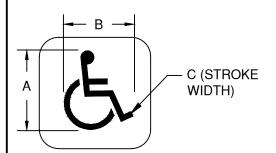
- PARKING BAYS SHALL BE DESIGNED OUTSIDE THE CLEAR VISION OF THE INTERSECTION. PARKING WILL BE PERMITTED IF CLEAR VISION AND SIGHT DISTANCE AS ANALYZED AS SAFE BY A PROFESSIONAL ENGINEER.
- 2. PARKING BAYS ON COLLECTORS ARE PERMITTED AS DIRECTED BY THE DEVELOPMENT CODE.
- 3. NO MORE THAN 10 PARKING BAYS WILL BE PERMITTED TOGETHER. TERMINATION OF BAYS WILL BE FOR VEGETATION PLANTING, UTILITY INSTALLATION (FRANCHISE UTILITY VAULTS, STORM FACILITIES, ETC).
- 4. PARKING IS NOT PERMITTED WITHIN THE INTERSECTION'S CLEAR VISION AND SIGHT DISTANCE AS DÉTERMINED BY AASHTO REQUIREMENTS AND ENGINEER REVIEW.

	N AJD ROADWAY	CITY OF BEND	SCALE NTS
REV	DATE	STANDARD DRAWING	DATE 01/31/2022
		710 NW WALL ST., BEND, OREGON 97701	APPR
	CITY OF BEND	COLLECTOR / LOCAL INTERSECTION	STD DWG R-27





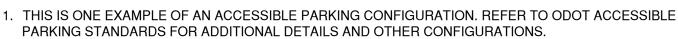
ACCESS AISLE ANGLE LAYOUT



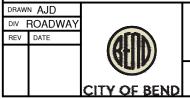
LEGEND	DIMENSIONS (INCHES)			
LLGEND	Α	В	С	
MINIMUM	28	24	3	
STANDARD	41	36	4	

PAVEMENT MARKING LAYOUT

NOTE:



2. ALL SIGNS AND PLACEMENT SHALL CONFORM TO ODOT STANDARDS.



DETAILS AND OTHER CONFIGURATIONS.	
IFORM TO ODOT STANDARDS.	

CITY OF BEND STANDARD DRAWING

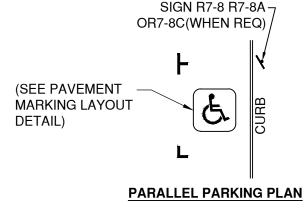
710 NW WALL ST., BEND, OREGON 97701

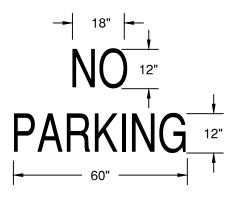
ACCESSIBLE PARKING - ANGLE

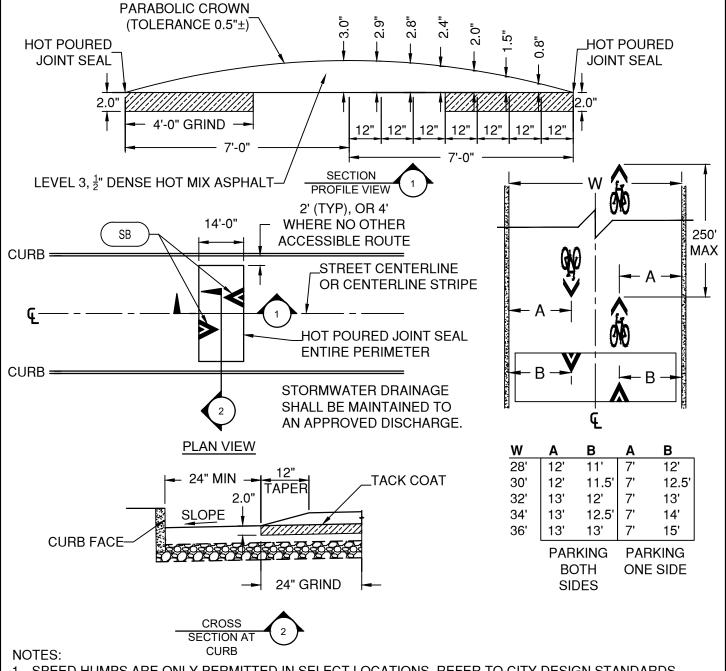
DATE 01/31/2022

APPR

STD DWG R-29

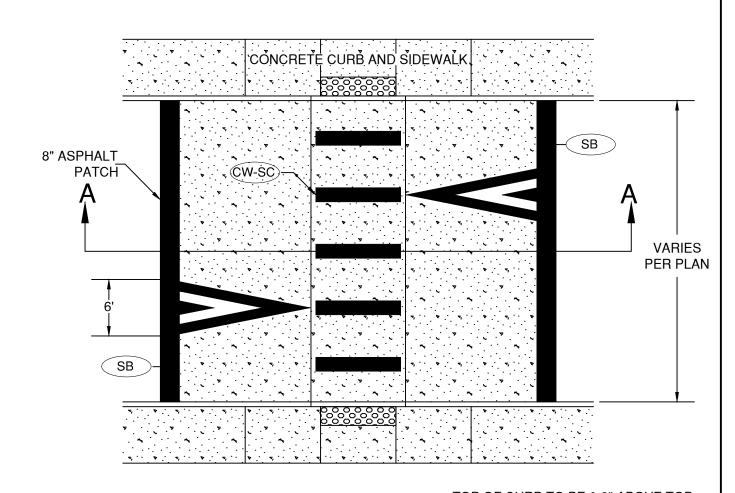


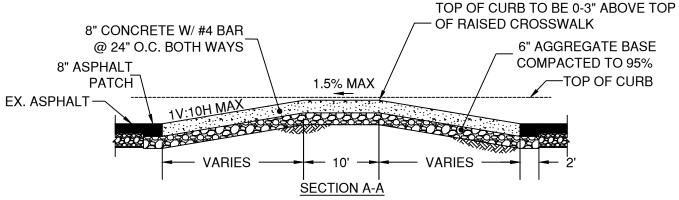




- SPEED HUMPS ARE ONLY PERMITTED IN SELECT LOCATIONS. REFER TO CITY DESIGN STANDARDS.
- 2. WHERE SPEED HUMP IS A RETRO-FIT TO AN EXISTING ROAD:
 - 2.1. GRIND / KEY-IN PERIMETER TO THE DIMENSIONS SHOWN OR AS DIRECTED BY THE ENGINEER.
- 2.2. APPLY TACK COAT TO ALL EXISTING SURFACES WHERE SPEED HUMP WILL BE IN CONTACT.
- 3. HOT POURED JOINT SEAL THE ENTIRE PERIMETER AFTER INSTALLATION.
- 4. ALL VERTICAL DIMENSIONS HAVE A REQUIRED MAXIMUM TOLERANCE OF +/- 1/4".
- 5. THE DISTANCE BETWEEN CURB AND EDGE OF THE SPEED HUMP VARIES. SEE ENGINEERED PLANS.
- 6. PAVEMENT MARKINGS ON SPEED BUMP SHALL BE INSTALLED CONCURRENTLY WITH THE ASPHALT STRUCTURES. PAVEMENT MARKINGS SHALL BE THERMO-PLASTIC.
- 7. PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE OPENING ANY LANE TO TRAFFIC THAT IS OCCUPIED BY A NEW SPEED BUMP.
- 8. SPEED HUMPS ARE NOT PERMITTED IN ACCESSIBLE ROUTES OR WHERE IN CONFLICT WITH DRIVEWAYS.

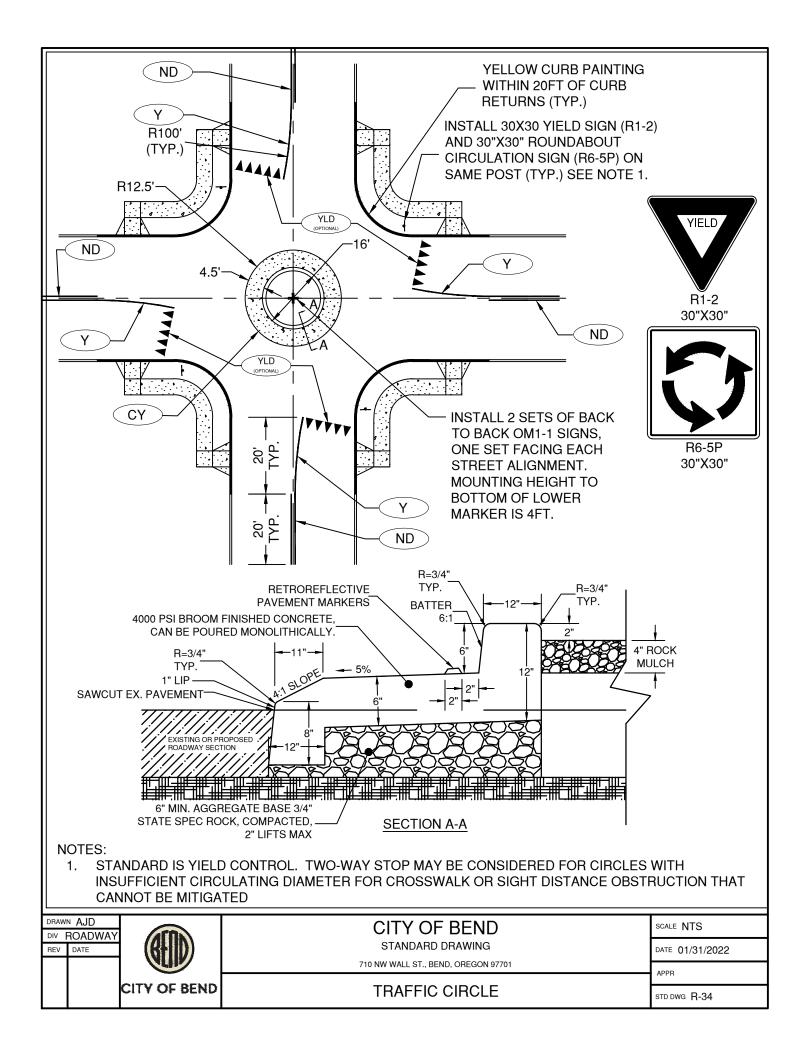
_	N AJD ROADWAY	(FD)	CITY OF BEND	SCALE NTS
-	DATE	(GHD)	STANDARD DRAWING	DATE 01/31/2022
		VUI-	710 NW WALL ST., BEND, OREGON 97701	APPR
		CITY OF BEND	SPEED HUMPS AND SHARROW PLACEMENT	STD DWG R-32

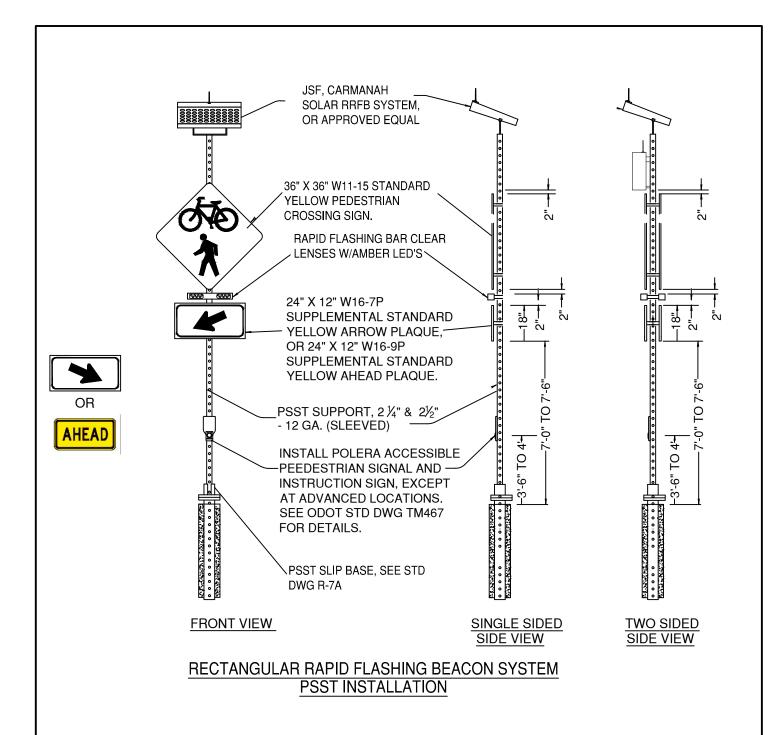




- 1. RAISED CROSSWALKS ARE ONLY PERMITTED IN SELECT LOCATIONS. REFER TO CITY DESIGN STANDARDS.
- 2. HOT POURED JOINT SEAL THE ENTIRE PERIMETER AFTER INSTALLATION.
- 3. PAVEMENT MARKINGS ON RAISED CROSSWALKS SHALL BE THERMO-PLASTIC.
- 4. PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE OPENING ANY LANE TO TRAFFIC THAT IS OCCUPIED BY A NEW SPEED BUMP.

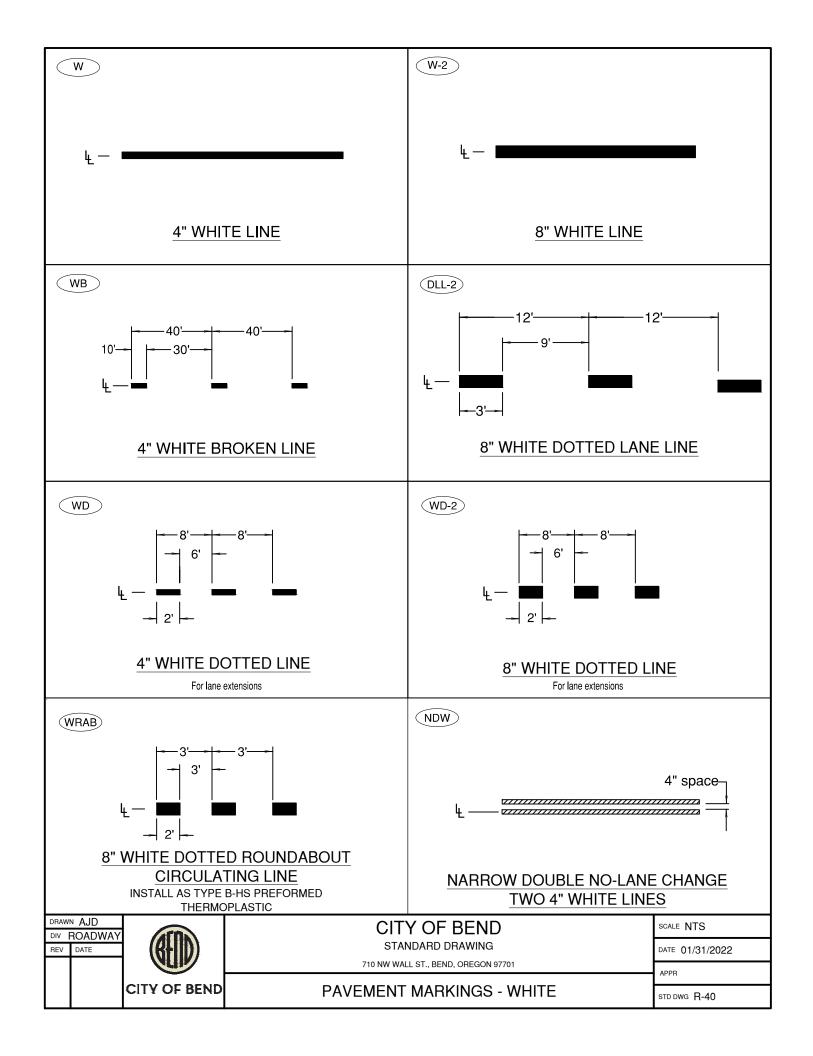
_	AJD ROADWAY	CITY OF BEND	SCALE NTS
-	DATE	STANDARD DRAWING	DATE 01/31/2022
		710 NW WALL ST., BEND, OREGON 97701	APPR
	CITY OF BEND	RAISED CROSSWALK	STD DWG R-33

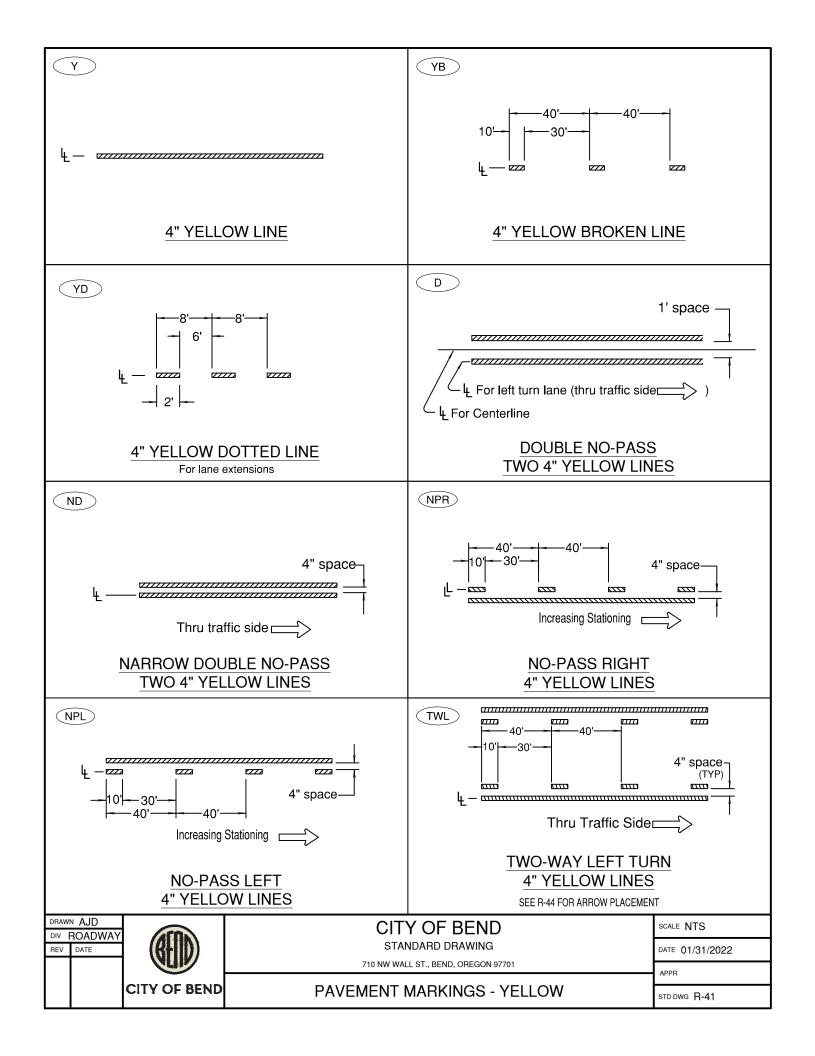


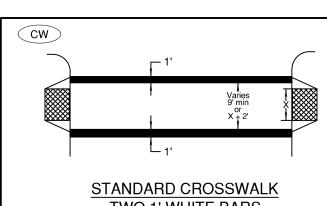


- 1. REMOVE SOLAR EQUIPMENT IF USING COMMERCIAL POWER
- 2. USE APPLIED INFORMATION AI-500-030 LOW POWER MONITORING DEVICE
- 3. USE SCHOOL CROSSING (S1-1) FOR DESIGNATED SCHOOL CROSSING
- 4. USE DOUBLE SIDED SIGNS IN MEDIANS

_	N AJD ROADWAY	(FD)	CITY OF BEND	SCALE NTS
-	DATE	(GHID)	STANDARD DRAWING	DATE 01/31/2022
		UII	710 NW WALL ST., BEND, OREGON 97701	APPR
		CITY OF BEND	RECTANGULAR RAPID FLASHING BEACON	STD DWG R-35

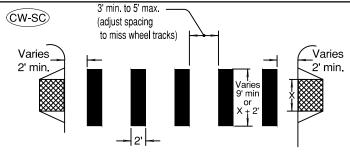






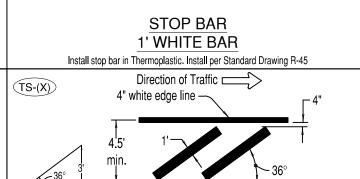
TWO 1' WHITE BARS

Install per Standard Drawing R-47



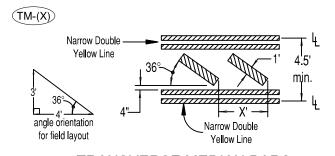
STAGGERED CONTINENTAL CROSSWALK 2' WHITE BARS

Install per standard drawing R-47; Install as Type B-HS preformed thermoplastic; Install at uncontrolled approach



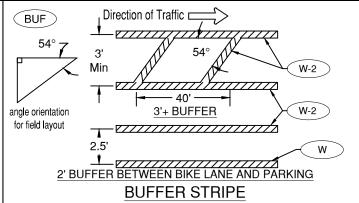
TRANSVERSE SHOULDER BARS 1' WHITE BARS AT 20' SPACING

X = 20', Typical (40' spacing may be used where median length exceeds 200')

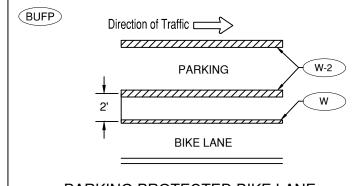


TRANSVERSE MEDIAN BARS 1' YELLOW BARS AT 20' SPACING

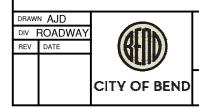
X = 20', Typical (40' spacing may be used where median length exceeds 200')



Install buffer stripes in thermoplastic / horizontal stripes parallel with traffic in paint



PARKING PROTECTED BIKE LANE



CITY OF BEND

S

angle orientation

for field layout

STANDARD DRAWING

710 NW WALL ST., BEND, OREGON 97701

PAVEMENT MARKINGS

SCALE NTS

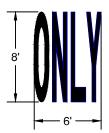
DATE 01/31/2022

Edge of pavement

APPR

STD DWG R-42A





ONLY (white)

Center marking within lane width
Install in Type B - HS Preformed Thermoplastic
For letter proportion details, see current version of FHWA Standard Highway Signs

SCH

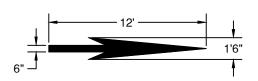
(E-RSA)



SCHOOL (white)

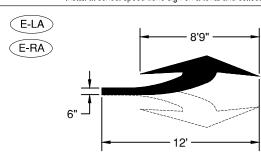
Center marking within lane width
Install in Type B - HS Preformed Thermoplastic
For letter proportion details, see current version of FHWA Standard Highway Signs
Install at school speed zone sign on arterial and collector roads





ELONGATED STRAIGHT ARROW (white)

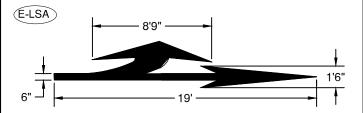
For arrow proportion details, see current version of FHWA Standard Highway Śigns Install in Type B - HS Preformed Thermoplastic Center marking within lane width



ELONGATED TURN ARROW (white)

For arrow proportion details, see current version of FHWA Standard Highway Signs Install in Type B - HS Preformed Thermoplastic Center marking within lane width

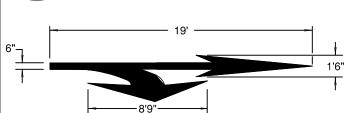
Use E-LA for Left Turn and E-RA for right turn.



ELONGATED LEFT TURN STRAIGHT ARROW

(white)

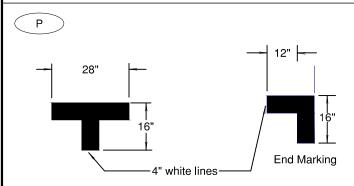
For arrow proportion details, see current version of FHWA Standard Highway Signs Install in Type B - HS Preformed Thermoplastic Center marking within lane width



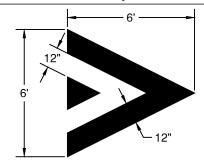
ELONGATED RIGHT TURN STRAIGHT ARROW

(white)

For arrow proportion details, see current version of FHWA Standard Highway Signs Install in Type B - HS Preformed Thermoplastic Center marking within lane width



ON-STREET PARKING DETAIL (white)



SPEED BUMP MARKING (WHITE)

Install in Type B - HS Preformed Thermoplastic Center marking within lane width

DRAWI	√ AJD	
DIV	ROADWAY	
REV	DATE	



CITY OF BEND

SB

STANDARD DRAWING

710 NW WALL ST., BEND, OREGON 97701

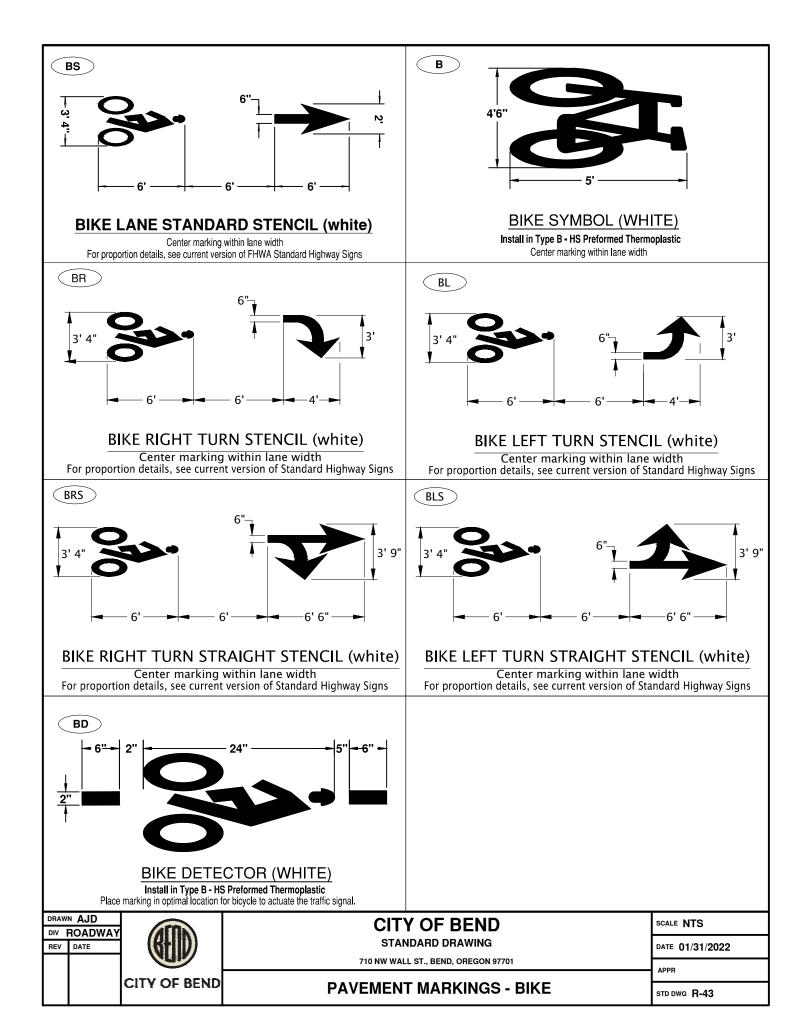
PAVEMENT MARKINGS

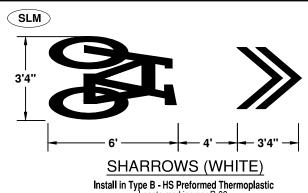
SCALE NTS

DATE 01/31/2022

APPR

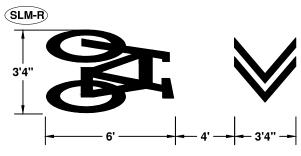
STD DWG R-42B





Install in Type B - HS Preformed Thermoplastic Locate marking per R-32

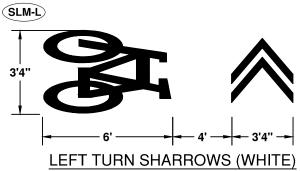
Arrow may be turned in direction of travel.



RIGHT TURN SHARROWS (WHITE)

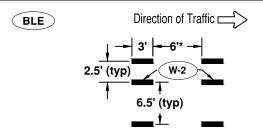
Install in Type B - HS Preformed Thermoplastic

Locate marking per R-32



Install in Type B - HS Preformed Thermoplastic

Locate marking per R-32

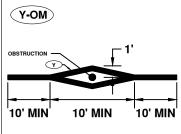


BIKE MARKING EXTENSION THROUGH INTERSECTION

* 6' or bike lane width
Install buffer stripes in Methyl Methacrylate (MMA)



Black inner circle / Green ring / White arrow/bike symbol Arrow may be turned in direction of travel.



YELLOW MARKING OBSTRUCTION IN PATH

DRAW	N AJD
DIV	ROADWAY
REV	DATE



CITY OF BEND

STANDARD DRAWING

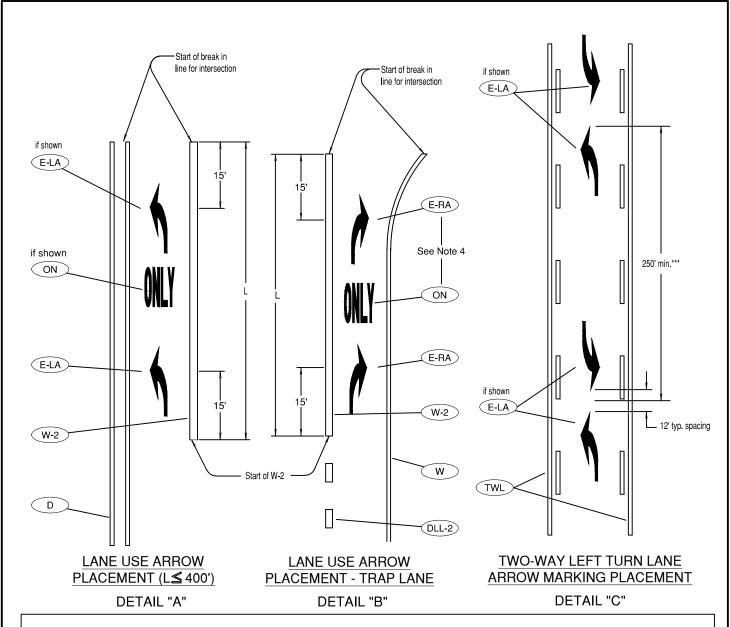
710 NW WALL ST., BEND, OREGON 97701

PAVEMENT MARKINGS - BIKE

DATE 01/31/2022

APPR

STD DWG R-43A

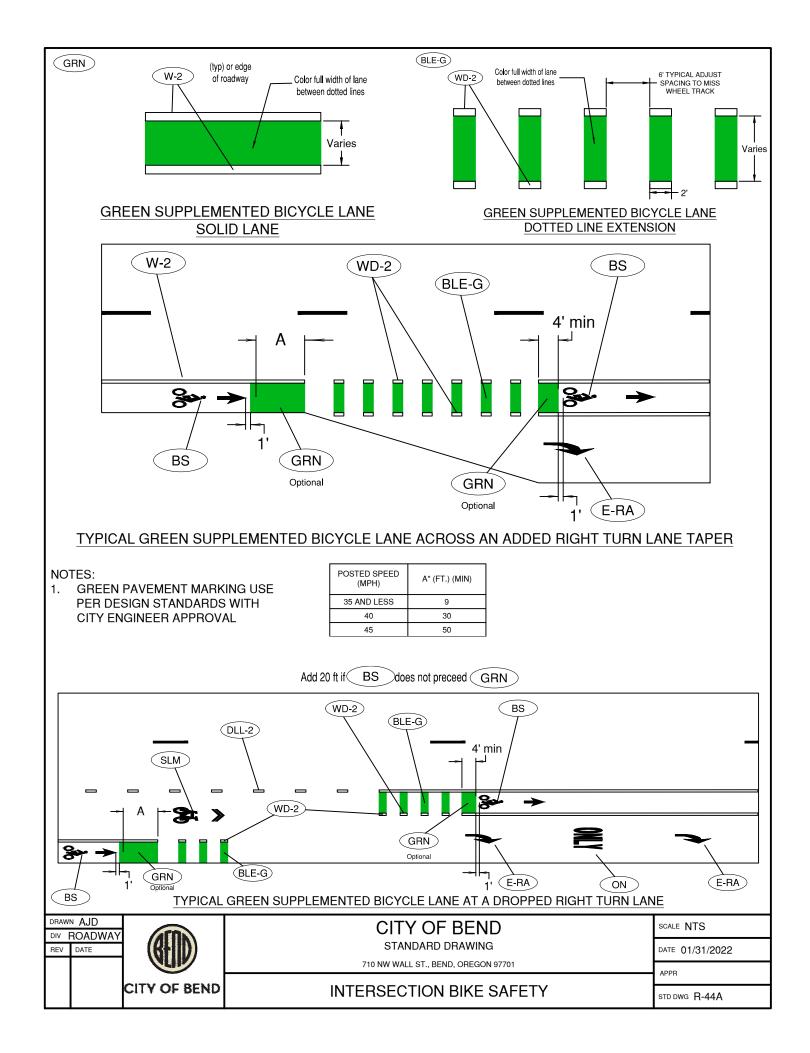


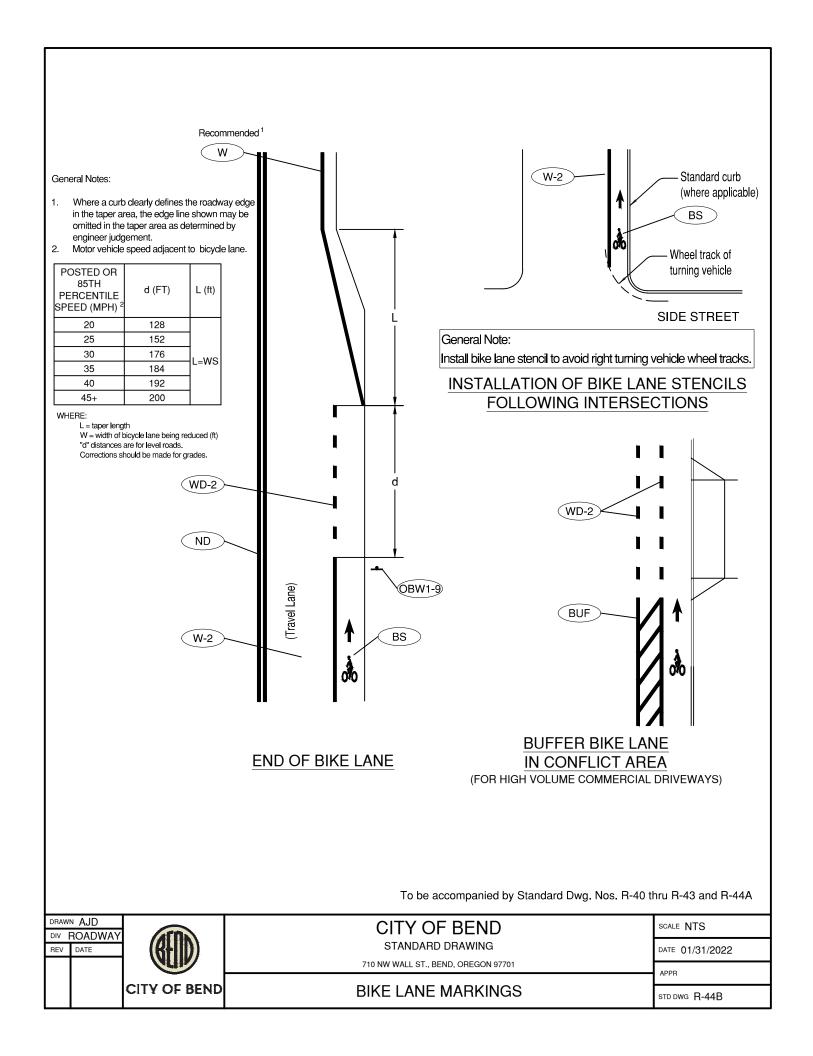
General Notes:

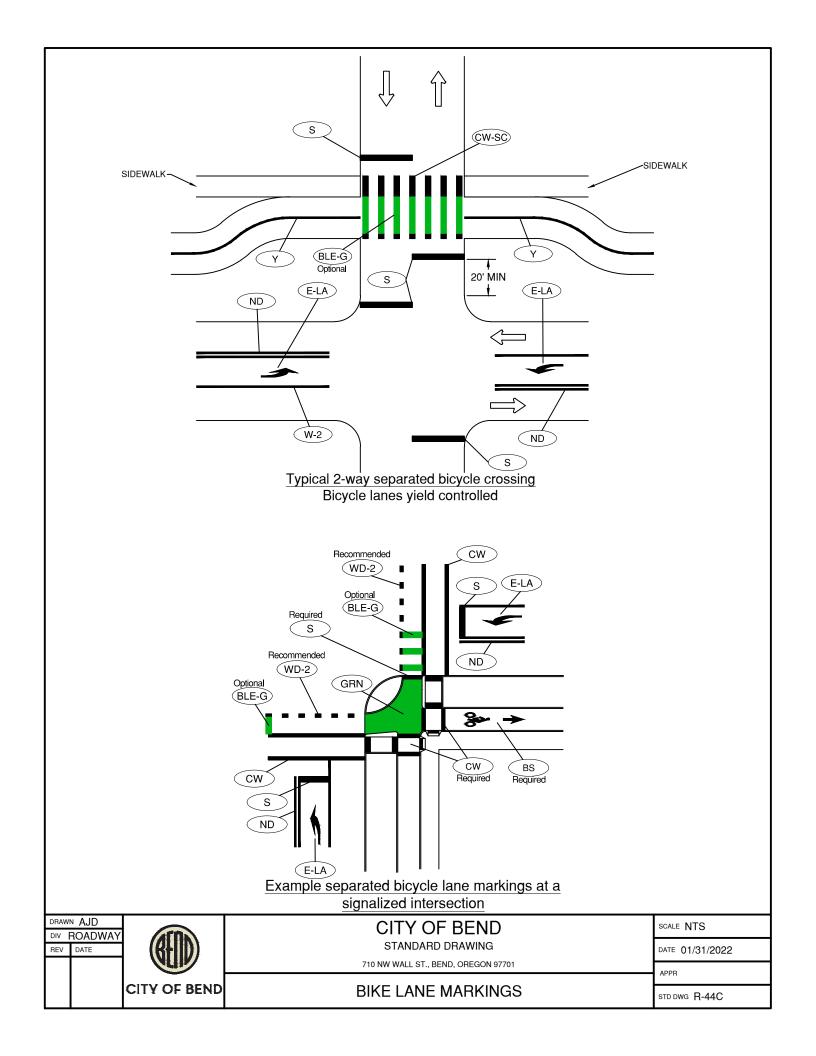
- 1.) Center pavement marking legends within the lane.
- Placement of lane use arrows with respect to the 8" wide white line (W-2) channelization shown in details "A", "B" and "C" apply to both left and right turn lanes.
- 3.) When used for a short turn lane (<40'), the 2nd (downstream) arrow may be omitted
- 4.) An ONLY symbol is only required where a through lane approaching an intersection becomes a mandatory turn lane.

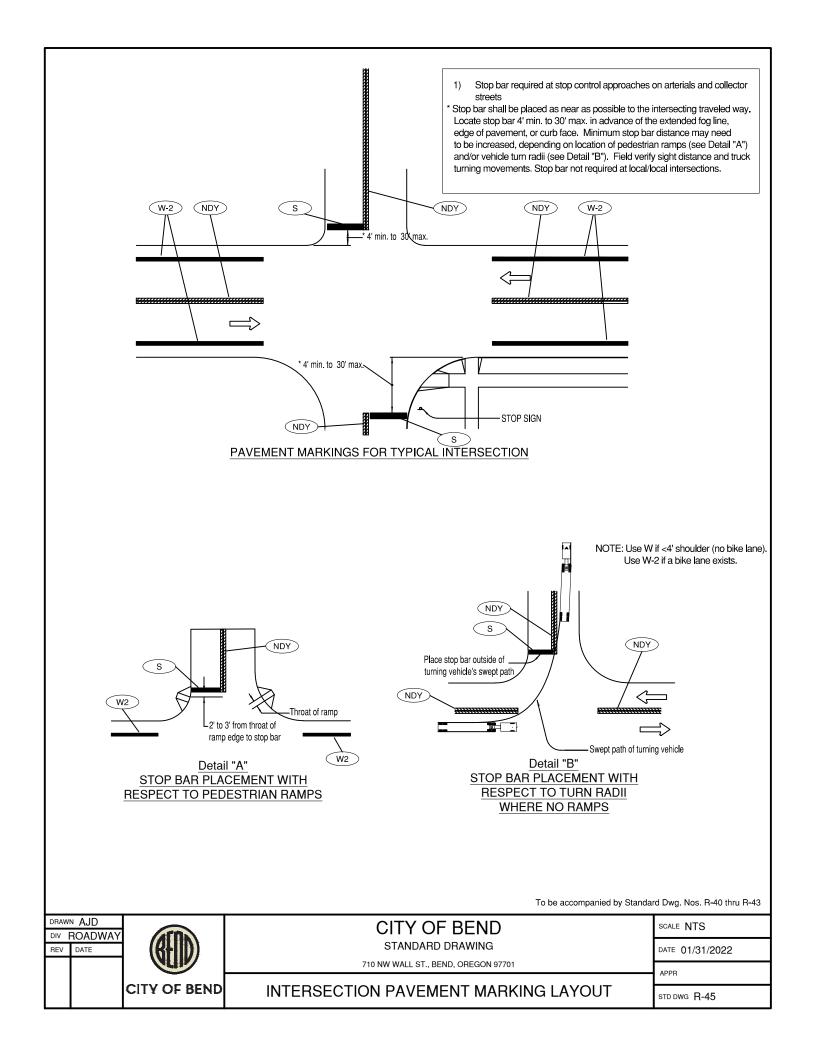
** When L is greater than 200', install 3rd lane use arrow at the midpoint of the turn lane.

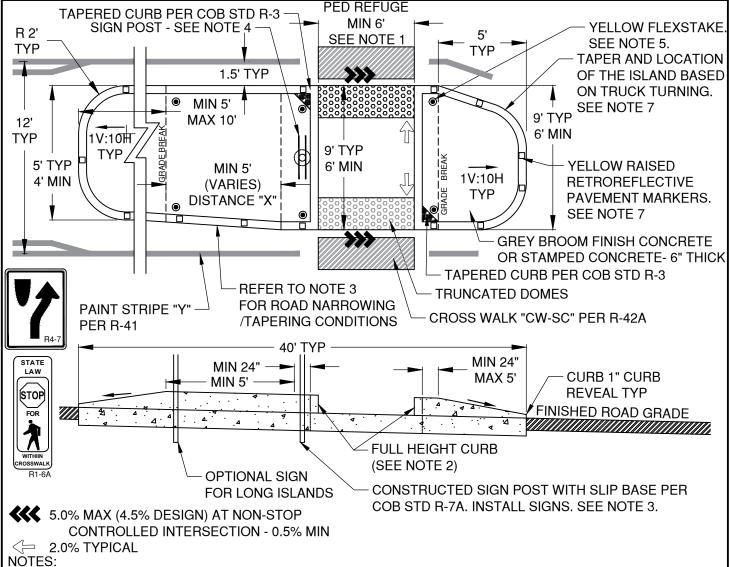
To be accompanied by Standard Dwg. Nos. R-40 thru R-43





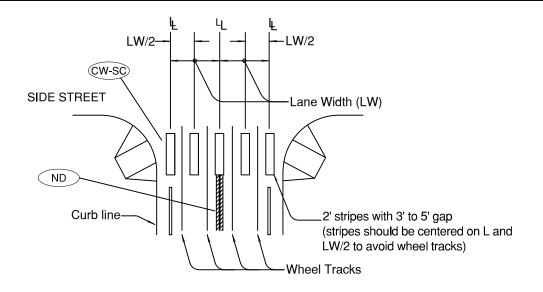






- 1. PEDESTRIAN REFUGE OPENING TO MATCH THE WIDTH OF THE CURB RAMPS, BUT NOT LESS THAN 6 FEET WIDE; IF SHARED USE PATH CROSSING, CURB RAMPS AND REFUGE WIDTH SHALL MATCH PATH WIDTH.
- 2. CURB TO BE INSTALLED PER CITY STANDARD R-3. FULL HEIGHT CURB (DEPENDENT ON THE STREET CLASSIFICATION) TO BE CONSTRUCTED OUTSIDE THE BULL NOSE / VERTICAL TAPER SECTIONS OF THE ISLAND.
- 3. TAPER TO BE ½*X OR AS NEEDED TO TERMINATE THE ISLAND WITH A 4' MIN BULLNOSE.
- 4. INSTALL R1-6A AND R4-7 (R1-6A OR R1-6C SIGNS FOR SCHOOL ZONES) SIGNS BACK TO BACK ON SIGN POST ADJACENT TO THE PED REFUGE. INSTALL AN ADDITIONAL POST PER COB STANDARD R-7A FOR INSTALLATION OF A SECOND R4-7 SIGN IF THE ISLAND EXCEEDS 40 FEET IN TOTAL LENGTH. OR AS DIRECTED BY THE CITY ENGINEER.
- 5. ISLANDS ARE NOT TO BE DOWELED INTO ROADWAYS UNLESS APPROVED BY THE CITY ENGINEER.
- 6. INSTALL 36" YELLOW TUBULAR FLEXSTAKE TM 750, OR APPROVED EQUAL, WITH TWO REFLECTIVE STRIPS DELINEATOR ON THE END OF THE BULLNOSE. OFFSET TO AVOID BLOCKING THE R1-6A SIGN. USE CONCRETE ANCHORS (REDHEAD OR EQUIVALENT).
- 7. INSTALL RETROREFLECTIVE YELLOW CURB MARKINGS ON TOP OF CURB AT 3' MAX SPACING AROUND MEDIAN NOSE AND AT 15' SPACING TO AND BEYOND TAPER SECTION AS SHOWN.
- 8. PLACEMENT OF ISLAND WILL BE BASED ON A MINIMUM WB-50 TURNING TEMPLATE. LARGER TRUCK MANEUVERABILITY TO BE DETERMINED IN INDUSTRIAL/COMMERCIAL AREAS.

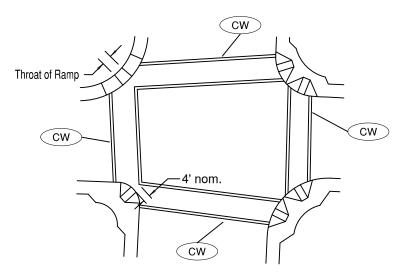
-	RAWN (CJH DADWAY	(FD)	CITY OF BEND	SCALE NTS
F		ATE	(8HD)	STANDARD DRAWING	DATE 05/02/23
			ALII	710 NW WALL ST., BEND, OREGON 97701	APPR
			CITY OF BEND	PEDESTRIAN REFUGE ISLAND	STD DWG R-46



STAGGERED CONTINENTAL LAYOUT

General Note:

 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.

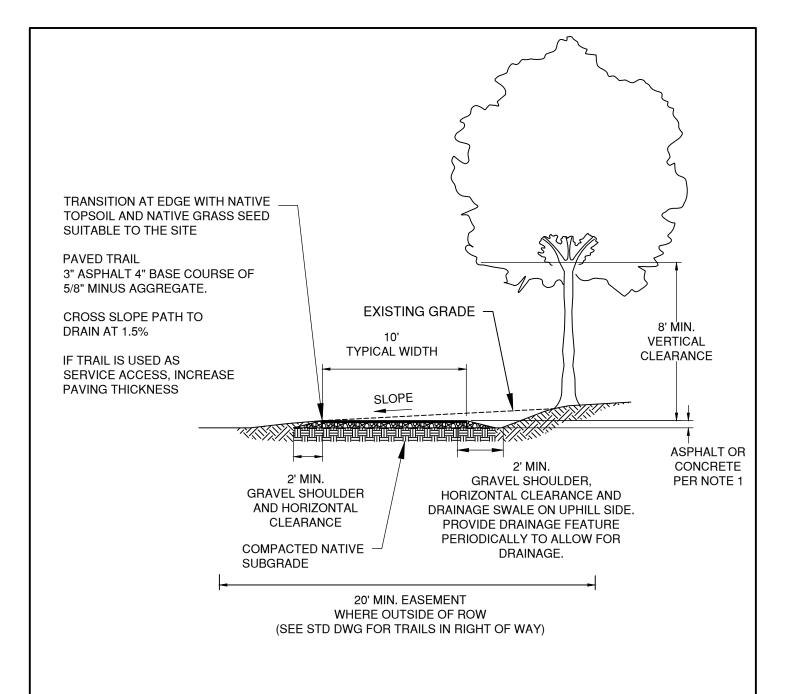


STANDARD CROSSWALK BARS

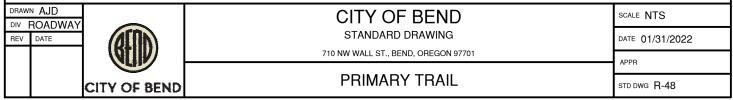
AT 4-WAY CONTROLLED

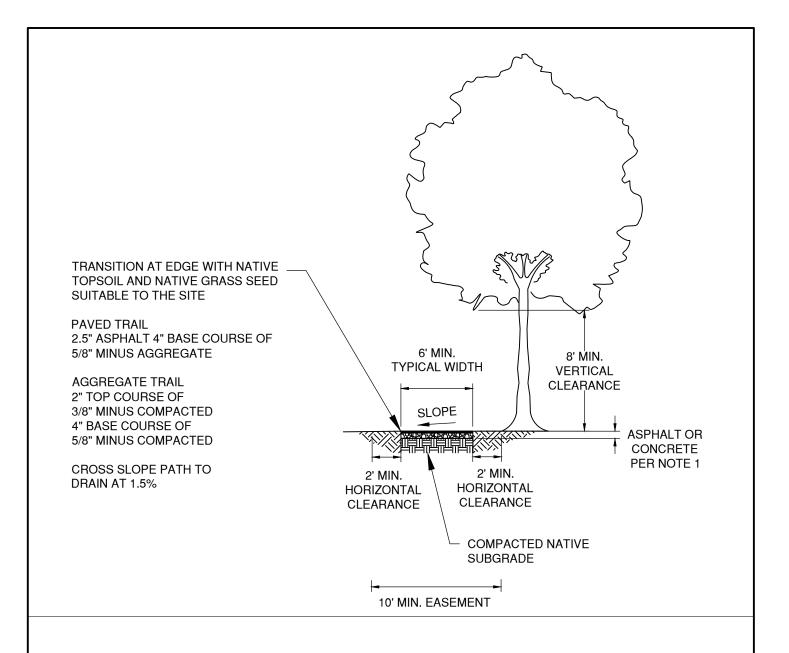
INTERSECTION

To be accompanied by Standard Dwg. Nos. R-40 thru R-43



- PRIMARY TRAIL SHALL BE PAVED WITH ASPHALT OR CONCRETE IN THE RIGHT-OF-WAY OR ADJACENT TO STREETS.
 OUTSIDE OF THE RIGHT-OF-WAY TRAIL MAY BE AGGREGATE AS APPROVED.
- 2. PRIMARY TRAILS ARE TYPICALLY FACILITIES OUTSIDE OF THE PUBLIC RIGHT-OF-WAY THAT ARE OWNED AND MAINTAINED BY THE BEND PARKS AND RECREATION DISTRICT OR PRIVATELY. (SEE STANDARD CROSS-SECTIONS FOR CITY SHARED USE PATHS IN THE RIGHT-OF-WAY.)
- 3. WHERE OUTSIDE OF RIGHT-OF-WAY, TRAIL EASEMENT DEDICATION IS REQUIRED INCLUDING A PUBLIC ACCESS EASEMENT AND UTILITY EASEMENT WHERE APPLICABLE.
- 4. TRAIL ALIGNMENTS ARE ENCOURAGED TO MEANDER AND NOT BE DESIGNED AS FENCED CANYONS.
- 5. TRAILS WITHIN RIGHT-OF-WAY SHALL MEET PROWAG REQUIREMENTS. TRAILS OUT OF RIGHT-OF-WAY SHALL MEET THE REQUIREMENTS OF THE UNITED STATES ACCESS BOARD ACCESSIBILITY STANDARDS FOR FEDERAL OUTDOOR DEVELOPED AREAS.





- CONNECTOR TRAIL SHALL BE PAVED WITH ASPHALT OR CONCRETE IN THE RIGHT-OF-WAY OR ADJACENT TO STREETS. OUTSIDE OF THE RIGHT-OF-WAY TRAIL MAY BE AGGREGATE AS APPROVED.
- 2. CONNECTOR TRAILS ARE TYPICALLY FACILITIES OUTSIDE OF THE PUBLIC RIGHT-OF-WAY THAT ARE OWNED AND MAINTAINED BY THE BEND PARKS AND RECREATION DISTRICT OR PRIVATELY. (SEE STANDARD CROSS-SECTIONS FOR CITY SHARED USE PATHS IN THE RIGHT-OF-WAY.)
- 3. WHERE OUTSIDE OF RIGHT-OF-WAY, TRAIL EASEMENT DEDICATION IS REQUIRED INCLUDING A PUBLIC ACCESS EASEMENT AND UTILITY EASEMENT WHERE APPLICABLE.
- 4. TRAIL ALIGNMENTS ARE ENCOURAGED TO MEANDER AND NOT BE DESIGNED AS FENCED CANYONS.
- 5. NATIVE SURFACE TRAILS MAY BE USED WITHIN PARKS OR PRIVATE DEVELOPMENTS TO PROVIDE CONNECTIONS TO PRIMARY AND OTHER CONNECTOR TRAILS.
- 6. TRAILS WITHIN RIGHT-OF-WAY SHALL MEET PROWAG REQUIREMENTS. TRAILS OUT OF RIGHT-OF-WAY SHALL MEET THE REQUIREMENTS OF THE UNITED STATES ACCESS BOARD ACCESSIBILITY STANDARDS FOR FEDERAL OUTDOOR DEVELOPED AREAS AT A MINIMUM.

 N AJD ROADWAY		CITY OF BEND	SCALE NTS
DATE		STANDARD DRAWING	DATE 01/31/2022
	MILIN	710 NW WALL ST., BEND, OREGON 97701	APPR
	CITY OF BEND	CONNECTOR TRAIL	STD DWG R-49

