

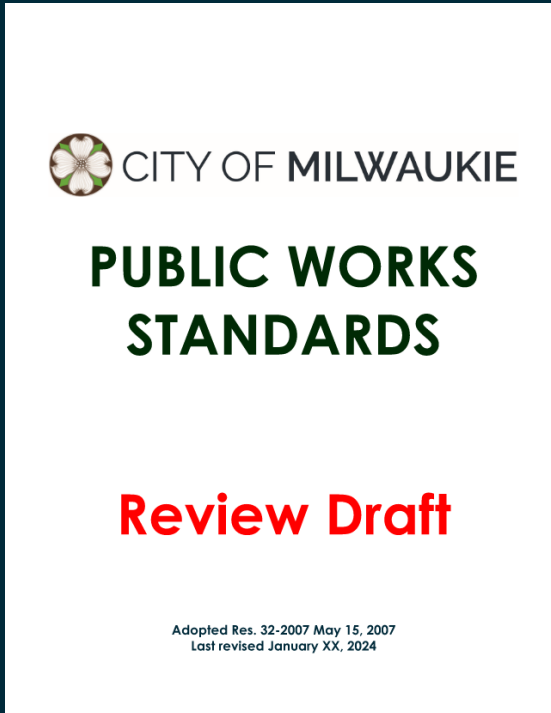
**WS 1. 12/5/23
Presentation**

PUBLIC WORKS STANDARDS

Technical
Amendments



30 DAY PUBLIC REVIEW PERIOD



Review copies available

- City Hall
- Johnson Creek Building
- Ledding Library
- Electronically on website



DIVISION 1 INCONSISTENT WITH GENERAL CONDITIONS FOR CONSTRUCTION

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City of Milwaukie Public Works Construction Standards Division 1—General Requirements	PWS Div 1 - Gen Requirements.docx May 15, 2007 (last rev. November 28, 2018)	24

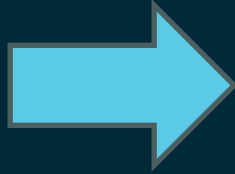


EXHIBIT B CITY OF MILWAUKIE – GENERAL CONDITIONS FOR CONSTRUCTION

Part 00100 as originally published by Oregon Department of Transportation for Certified LPAs has been modified. This is an updated table of contents applies to the City of Milwaukie's Part 00100.

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City of Milwaukie -
General Conditions for Construction (Exhibit B)

Revised 6/30/2022

96

City of Milwaukie -
General Conditions for Construction (Exhibit B)

Revised 6/30/2022

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City of Milwaukie -
General Conditions for Construction (Exhibit B)

Revised 6/30/2022

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City of Milwaukie -
General Conditions for Construction (Exhibit B)

Revised 6/30/2022

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100

City of Milwaukie -
General Conditions for Construction (Exhibit B)

Revised 6/30/2022

101

City of Milwaukie -
General Conditions for Construction (Exhibit B)

Revised 6/30/2022

101

Division 1 and General Conditions for Construction mainly apply to Capital Improvement Projects and duplicate information with Division 1 less complete



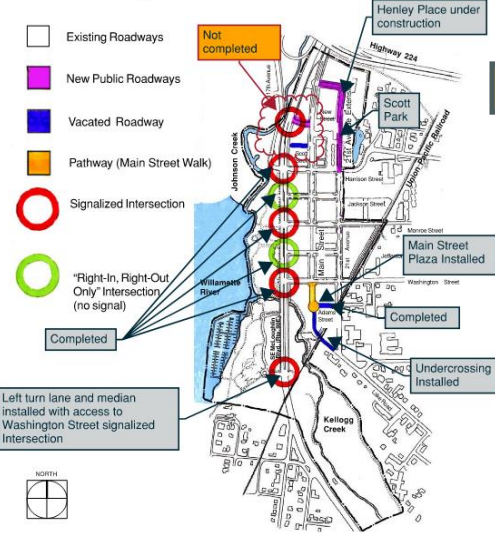
INCORPORATING THE PUBLIC AREA REQUIREMENTS

City of Milwaukie, Oregon

Public Area Requirements

General Circulation Requirements

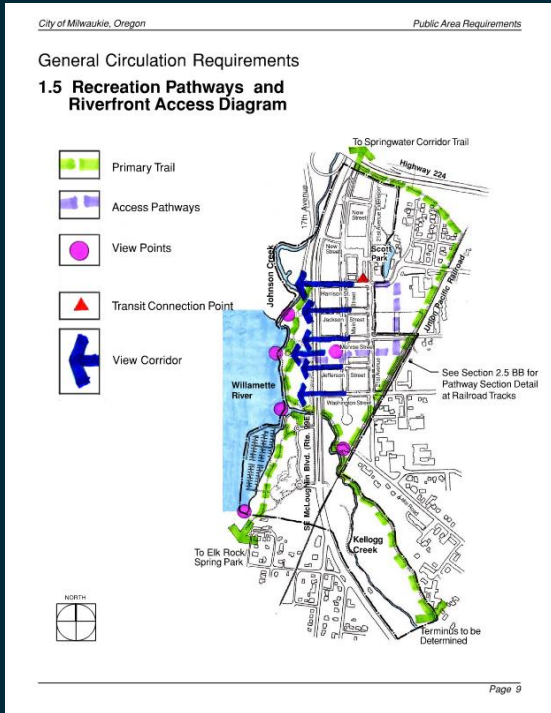
1.2 Streets Diagram



Remaining items



RECREATION PATHWAYS AND RIVERFRONT ACCESS



- Does not include Trolley Trail
- Pathway adjacent to railroad tracks is now the Max Orange line system
- Transit connection is on Jackson Street instead of Harrison Street
- Does not include Monroe Street Greenway
- Access pathway between Monroe Street and Jefferson Street goes through a building



BIKEWAY AND TRANSIT ROUTES DIAGRAM

General Circulation Requirements

1.7 Bikeways Diagram

-  Existing Bike Lane
-  Planned Bike Lane
-  Planned Signed Bike Route
-  Existing Recreation Trail (Shared with Pedestrians)
-  Proposed Recreation Trail (Shared with Pedestrians)
-  Shared Travel Lane



Does not show 17th Ave Path, Trolley Trail or Shared lanes on Main Street

General Circulation Requirements

1.9 Transit Routes Diagram

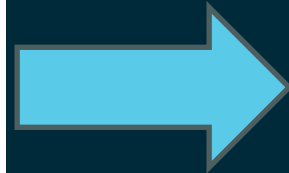
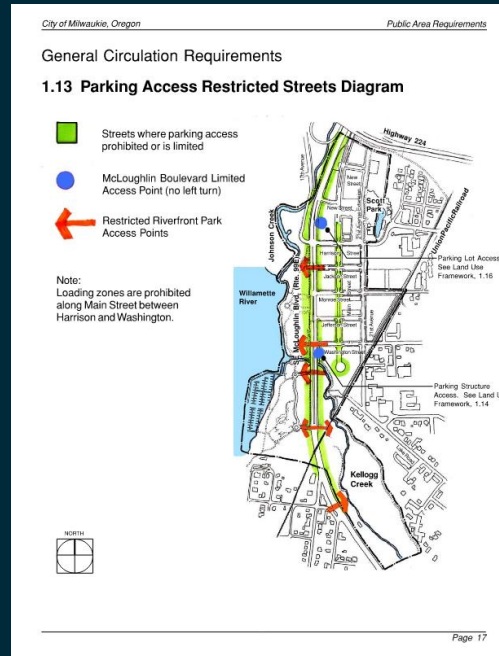
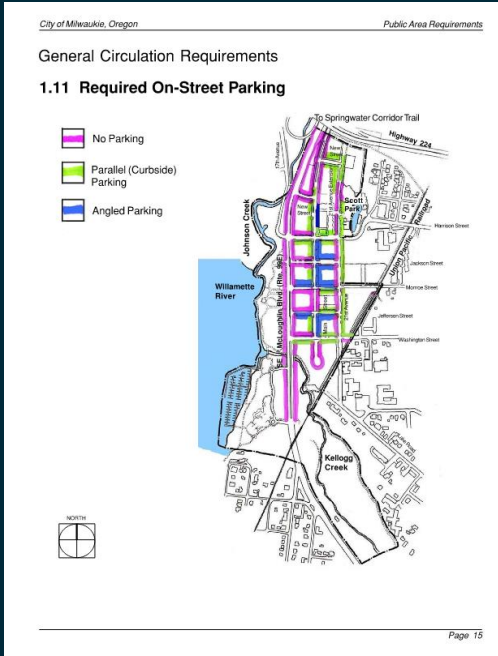
Note:
Existing routes are subject to change pending final site selection of the Transit Center.



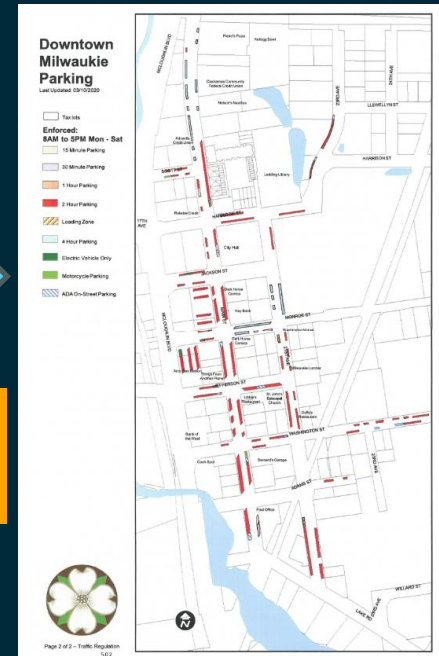
Transit Center on Jackson Street



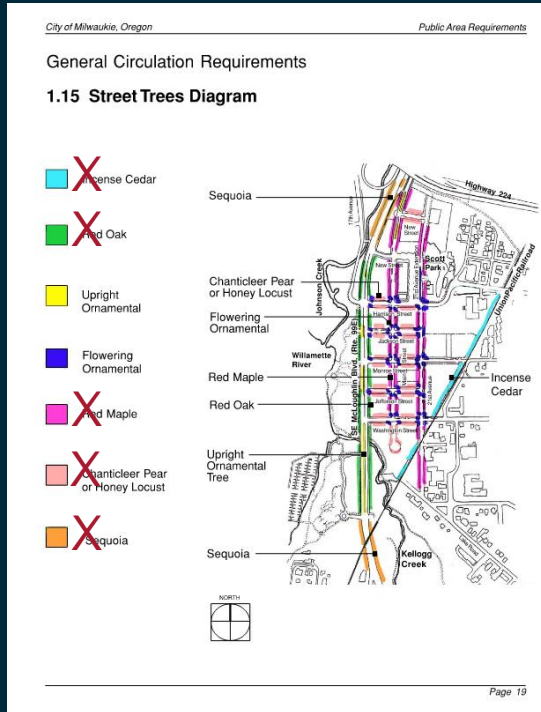
ON STREET PARKING



Superseded by
Traffic
Regulation 502



STREET TREES



Ornamental Accents

~~Japanese Cherry (Prunus serrulate 'Kwanzan')~~

This Japanese Cherry tree has beautiful pink spring blossoms and insignificant fruit that does not pose a litter problem. It is appropriate for intersection accents.

Height: 30'
 Spread: 20'
 Shape: Stiffly vase shaped
 Foliage: Dark green
 Fall Color: Bronze-orange to orange-red
 Flower: Double, rosy pink in clusters



Frans Fontaine Hornbeam (Carpinus betulus 'Frans Fontaine')

The tree has a dense upright branching pattern. With glossy dark green foliage, it is appropriate for boulevard medians.

Height: 35'
 Spread: 15'
 Shape: Narrow, columnar
 Foliage: Dark green
 Fall Color: Yellow



Page 83

On Approved Tree List: Columnar Hornbeam (Carpinus betulus 'Fastigata')

Carpinus betulus 'Frans Fontaine'

Hornbeam - European

'Frans Fontaine' European Hornbeam is more columnar than Carpinus betulus 'Fastigiata', but is equally resilient in urban and suburban conditions. The narrower habit makes Carpinus 'Frans Fontaine' a good candidate for narrower spaces or street tree applications. The fall color of the tidy foliage is a clear yellow, and winter interest is provided by the upright, densely branched form. Since all Carpinus varieties are a fall digging hazard, container production makes the planting season much longer.

Height
40 Feet

Spread
20 Feet

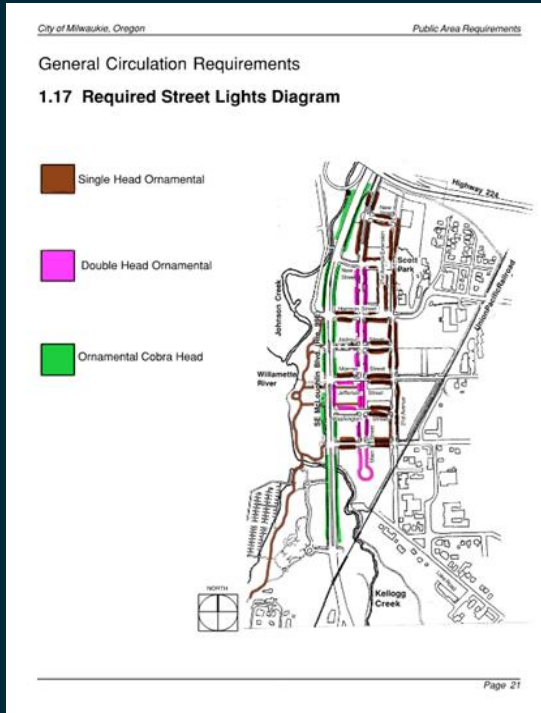
USDA Hardiness Zone
5

Excerpt from Pleasant Run Nursery webpage

X = Not on current Approved Street Tree List



STREET LIGHTS



City requirements adopted in Public Works Standards in 2007:

Street lights are acquired through Portland General Electric. Fixtures will be on PGE's approved list and approved by City Engineer.



STREET CLASSIFICATIONS AND RIGHT-OF-WAY WIDTHS

Street Standards

2.2 Street Classification Diagram

-  Freeway
-  Regional Boulevard
-  Arterial
-  Collector
-  Local Street
-  Vacated Roadway
-  Pathway (Pedestrians or Bike/ Pedestrians Only)



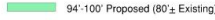


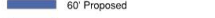
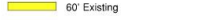
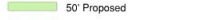
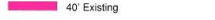
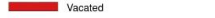
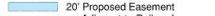
- Note:
- All or a portion of the right-of-way or easement for pathways and streets to be acquired, purchased or dedicated at the time of development.
 - Rail Trail north of Monroe Street is outside of the Downtown Plan Study Area. It is included for clarity of map system.

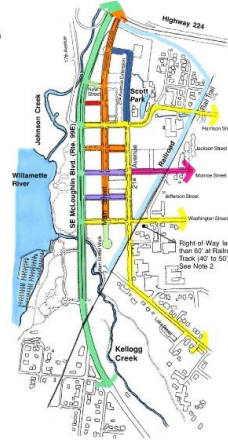


Street Standards

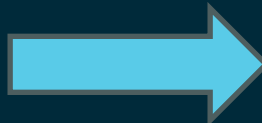
2.3 Street Right-of-Way Widths

Proposed and Vacated R.O.W.'s

-  94'-100' Proposed (80'± Existing)
-  80' Existing
-  70' Existing
-  60' Proposed
-  60' Existing
-  50' Proposed
-  40' Existing
-  Vacated
-  20' Proposed Easement Adjacent to Railroad Right-of-Way and Highway 224



- Note:
- Right-of-Way narrowed at Main Street Walk to provide pedestrian scale at pathway and maintain adjacent development sites.
 - All or a portion of the right-of-way or easement for pathways and streets to be acquired, purchased or dedicated at the time of development.
 - Rail Trail north of Monroe Street is outside of the Downtown Plan Study Area. It is included for clarity of map system.



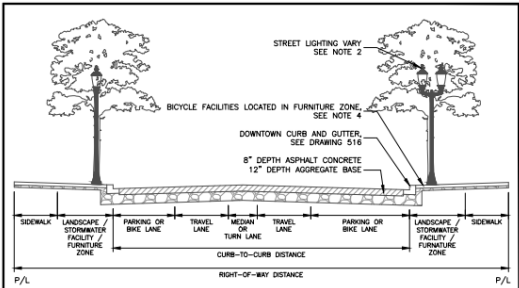
Transportation System Plan

Prepared by the City of Milwaukie in association with DKS Associates

Adopted Ord. #1975 December 4, 2007
Last Rev. by Ord. #2163 October 20, 2018



STREET SECTIONS



DOWNTOWN STREET SECTIONS

STREET NAME	RIGHT-OF-WAY	CURB-TO-CURB	SIDEWALK	LANDSCAPE	PARKING*	BIKE LANE	TRAVEL LANE	MEDIAN OR TURN LANE
MCDONOUGH BLVD.	100'	74'	6'	6' TO 8'	0	6'	12' (4 TOTAL)	14' LANE
MAIN STREET	60' TO 80'	22' TO 54'	12' TO 16'	0 TO 7'	0 TO 7'	0	11' TO 14'	NONE
21ST AVENUE	60'	27' TO 36'	10' TO 17'	0 TO 8'	0 TO 7'	0	11' TO 14'	0 TO 1' MEDIAN
HARRISON STREET	60' TO 68'	40' TO 48'	10'	0 TO 5'	0 TO 8'	4.5' TO 9'	11' TO 13.5'	NONE
JACKSON STREET	80'	52' TO 58'	10' TO 18'	0 TO 5'	0 TO 14'	0	12' TO 17'	NONE
MONROE STREET	40' TO 70'	28' TO 48'	8' TO 12'	0 TO 7'	0 TO 18'	0	11' TO 14'	0 TO 12' LANE
JEFFERSON STREET	70'	46'	12'	0 TO 5'	7' TO 16'	0	11' TO 12'	NONE
WASHINGTON ST.	60'	36' TO 40'	10' TO 12'	0 TO 5'	0 TO 7'	0	11'	0 TO 11' LANE
ADAMS STREET	50'	30'	8'	0	7'	0	11' TO 12'	NONE
OCHOCO STREET	45' TO 54'	24' TO 38'	5'	4' TO 5.5'	0	0	12'	12' LANE
MALMELL DRIVE	60'	32'	6' TO 14'	0 TO 6'	0 TO 8'	0	12'	NONE
STURB STREET	55'	32'	5' TO 8'	0 TO 6'	0 TO 8'	0	12'	NONE

*PARKING WIDTH OVER 10' IS ANGLED PARKING

- CONSTRUCTION NOTES**
1. UNDERGROUND ALL UTILITIES.
 2. FOR STREET LIGHTING SEE SECTION 5.0091 OF THE MILWAUKIE PUBLIC WORK STANDARDS.
 3. FOR STREET FURNITURE, SEE SECTION 5.0191 (E) OF THE MILWAUKIE PUBLIC WORK STANDARDS.
 4. FOR BICYCLE FACILITIES, SEE SECTION 5.0191 (F) OF THE MILWAUKIE PUBLIC WORK STANDARDS.
 5. FOR STREET TREES, SEE SECTION 5.0193 OF THE MILWAUKIE PUBLIC WORK STANDARDS.

CITY OF MILWAUKIE, OREGON - PUBLIC WORKS DEPT.

Downtown Street Cross Sections

DRAWING NO. **506A**

APPROVED: *[Signature]* 01/2021
CITY ENGINEER

NO.	REVISIONS	DATE	BY



CITY OF MILWAUKIE, OREGON - PUBLIC WORKS DEPT.

Downtown Street Cross Sections

DRAWING NO. **506B**

APPROVED: *[Signature]* 01/2021
CITY ENGINEER

NO.	REVISIONS	DATE	BY



Street Section Incorporated into PWS in 2019

STREET DESIGN DETAILS

- Mid-block Parking Lot/Structure Access = MMC 12.16.030 and 12.16.040 and PWS Section 5.0191A
- Corner Radii = PWS Section 5.0191B
- Curb & Gutter Detail @ Brick Pavers = PWS Detail 516
- Brick Pavers to Concrete Street Transition = N/A since it's for Main Street Plaza between Monroe St. and Jefferson St.
- Asphalt Street to Concrete Crosswalk Transition = PWS Detail 519



SIDEWALK DESIGN DETAILS

- Sidewalks Details = PWS Details 520 and 521, updated to meet ADA requirements
- Sidewalk Scoring and Tree Well Details = PWS Details 518A, 518B, and 518C
- Sidewalk on McLoughlin = Oregon Standard Drawings to meet ODOT requirements
- Tree Planting detail = PWS detail 513, updated by city's Urban Forester



STREET LIGHT DESIGN DETAILS

- Must be on PGE approved list and provided by PGE. PGE offers energy-saving LEDs for all types of outdoor lighting
- Street Lights = PWS Section 5.0191D
- Street Light placement = PWS Details 520 and 521

STREETLIGHTS					
Manufacturer	Lum Code	Wattage	Lumens	Manufacturer Product Code	
ROADWAY - GRAY					
Loctek	Roadway	29W LED	3470	GC11-20H-MV-WW-28-01-450-PCR7-RWG-WL-FDC-PGE	
Loctek	Roadway	45W LED	5020	GC12-20H-MV-WW-28-01-700-PCR7-RWG-WL-FDC-PGE	
Loctek	Roadway	88W LED	10230	GC42-40H-MV-WW-28-01-700-PCR7-RWG-WL-FDC-PGE	
Loctek	Roadway	180W LED	18700	GC11-80S-MV-WW-38-01-435-PCR7-RWG-WL-FDC-PGE	
GE (Luminaire Alternate)	Roadway	29W LED	3880	ERL008830A8AGVSL	
GE (Luminaire Alternate)	Roadway	49W LED	5820	ERL008830A8AGVSL	
GE (Luminaire Alternate)	Roadway	87W LED	10500	ERL1011830A8AGVSL	
GE (Luminaire Alternate)	Roadway	150W LED	13400	ERL1014830A8AGVSL	
GE (Luminaire Alternate)	Roadway	180W LED	18200	ERL2015330A8AGVSL	
ROADWAY - BLACK					
Loctek	Roadway	29W LED	3470	GC11-20H-MV-WW-28-01-450-PCR7-RWG-WL-FDC-PGE	
Loctek	Roadway	45W LED	5020	GC12-20H-MV-WW-28-01-700-PCR7-RWG-WL-FDC-PGE	
Loctek	Roadway	88W LED	10230	GC42-40H-MV-WW-28-01-700-PCR7-RWG-WL-FDC-PGE	
GE (Luminaire Alternate)	Roadway	29W LED	3880	ERL0088530A8CVSL	
GE (Luminaire Alternate)	Roadway	49W LED	5820	ERL0088530A8CVSL	
GE (Luminaire Alternate)	Roadway	87W LED	10500	ERL1011830A8CVSL	
ROADWAY - BRONZE					
Loctek	Roadway	29W LED	3470	GC11-20H-MV-WW-28-01-450-PCR7-RWG-WL-FDC-PGE	
Loctek	Roadway	45W LED	5020	GC12-20H-MV-WW-28-01-700-PCR7-RWG-WL-FDC-PGE	
Loctek	Roadway	88W LED	10230	GC42-40H-MV-WW-28-01-700-PCR7-RWG-WL-FDC-PGE	
GE (Luminaire Alternate)	Roadway	29W LED	3880	ERL0088530A8KZSL	
GE (Luminaire Alternate)	Roadway	49W LED	5820	ERL0088530A8KZSL	
GE (Luminaire Alternate)	Roadway	87W LED	10500	ERL1011830A8KZSL	
DECORATIVE FIXTURES					
PENDANT AURORA - KING - CU 1897 *					
Pendant	40W LED	4440	K829-PNF1-III-40(15L)-8000-120-277-3K-W5-CD-TXT-BLACK-1/7-FLP120-PR7/	DWG PGE_AURORA-2	
Pendant	60W LED	6427	K829-PNF1-III-60(15L)-8000-120-277-3K-W5-CD-TXT-BLACK-1/7-FLP120-PR7/	DWG PGE_AURORA-2	
Pendant	75W LED	8090	K829-PNF1-III-80(15L)-8000-120-277-3K-W5-CD-TXT-BLACK-1/7-FLP120-PR7/	DWG PGE_AURORA-2	
TOWN & COUNTRY - AMERICAN REVOLUTION					
CU 1482	T&C	30W LED	3548	247XL P133 MVOLT 30K R3 BK SMC PR TL NL1X1	
CU 1483	T&C	50W LED	5100	247XL P133 MVOLT 50K R3 BK SMC PR TL NL1X1	
LESTER - T&C COLONIAL *					
CU 1484	T&C	33W LED	4374	PFC5-F-16-S-300-MV-30K-3-BK-040-PCR7-CS-WC-JB	
CU 1485	T&C	45W LED	5825		
ACORN - No Globe KING YARMOUTH *					
CU 1545	Acorn	40W LED	3592	K137-PANG-III-40(15L)-7030-120-277-426-3K-(MOD)PR7-W5-TX BLACK	
CU 1546	Acorn	60W LED	5157		
CU 1547	Acorn	75W LED	6082		
ACORN - ACRYLIC					
CU 1807	Acorn	60W LED	7067	AWDE3 P30 30K MVOLT M3 AL3 BK ST TBK PR7 FFD7 NL1X1	
ACORN - No Globe Acrylic					
CU 1520	Acorn	39W LED	4365	WFCL3 P10 30K MVOLT FCB BK NF PR7E NL1X1	
CU 1408	Acorn	59W LED	6759	WFCL3 P30 30K MVOLT FCB BK NF PR7E NL1X1	
Streetlights may be used in Area Lights. Please discuss with a Lighting Design Project Manager those options					

PGE's Approved Street Light list



STREET FURNITURE

Benches



Victorian-era styled bench made of wood with cast-iron end frames. Fairweather Site Furnishings & Accessories Model TD-3 (or equal)

Fairweather Site Furnishing purchased by Tournesol. Tournesol does not provide Victorian-era styled bench. PWS Section 5.0191E notes bench to be approved by City Engineer and lists three bench options available.

Trash Receptacles



Flared steel trash receptacles with an optional ash trap (or right). Fairweather Site Furnishings & Accessories Model TR-12.24, black (or equal)

Tournesol does not offer trash receptacles. PWS Section 5.0191E gives a trash receptacle option. PW staff requested that the ash trap not be included with the dome lid option.

Bollards



Fountains



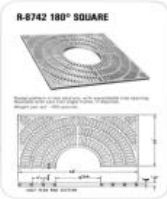
Bollards and Fountains descriptions are in PWS Section 5.091E.

Detail 515 shows a Decorative Bollard with note about placement behind truncated domes.



STREET FURNITURE

Iron Tree Grates



Radial Pattern Iron Tree Grates with expandable tree opening.
Neeah Foundary R-8742
180 Degree Square

Tree grates would be included in PWS Section 5.0191E as an element to be approved by City Engineer. With the limited space for tree root balls, planter areas are preferred to tree wells for better overall tree health.



"Hitchin' Post" bike rack by Pilot Rock,
Color: Black (or equal)

Bike facility details are in PWS Section 5.0191F.



CITY STAFF REQUESTED CHANGES

Text						
	DOWL Redlines with Beth's comments	Dowl and Beth	9/17/2021	yes	no	see below
Division 1	Change to 104.02 from Steve & Jen City created new General Requirements. Should Division 1 be revised to match the document or.	Steve & Jen		yes	no	see below Removed Division 1 text because information is covered in the General Requirements for Construction.

22 text change requests
18 changes made
3 not made due to other changes and
1 because more information needed

	WOF plant list - Galen & Courtney	Galene Courtney		yes	no	Recommendation cannot be provided on city website.
Section 3	PW Stormwater meeting on 9/18/2023	Storm Dept	Oct. 2023	yes	yes	
	PW Wastewater meeting on 9/21/2023	Wastewater Dept	Oct. 2023	yes	yes	
Section 4	Water Dept changes to match detail 402	Water Dept	Oct. 2023	yes	yes	
	Engineering requests	Engineering	Oct. 2023	yes	yes	
	Section 5.0093 Street Planning	Julian		yes	yes	
	Remove Street tree list to update independent of PW Standards	Natalie & Courtney		yes	yes	Sustainability department and tree board will update list
	Engineering requests	Engineering				
	PW Street meeting on 9/21/2023	Streets and Signs	Oct. 2023	yes	yes	
Section 5	Add Street name to text, Street name sign hardware details. Add text about installing signs at 45 degree angle for No Parking, Hourly Parking, Loading Zone signs. Add text about painting median island curbs and installing RPMs.	Signs	Oct. 2023	yes	yes	See section 5.0092
	rubberized sealant ASTM	Street	Oct. 2023	yes	yes	
	Add removable bollard description to text portion = 4" stainless steel	Engineering	Oct. 2023	yes	no	No details given when or where a removable bollard is to be used. More information needed
	Change word "shall" to "will"	City Council		yes	yes	
All sections	Remove all reference to Milwaukie Downtown and Riverfront Plan Public Area Requirements (PARs)	Engineering	Oct. 2023			

Storm						
New	Specific check Dam detail requested by Steve	Steve		yes	no	PW maintenance requested not to use this detail. Check dam details are included in the Portland Stormwater Manual and Oregon Standard Drawings, so individual projects can request city approval to add a check dam to the design.
Wastewater						
Water						
402	Revise from redlines sent by Ronelle Regarding Water Sampling Station - Detail 400 lists OSD R0282 as approved with Milwaukie exceptions.	Ronelle	10/12/2021	yes	yes	With Milwaukie exception noted on Drawing 400, Water Dept. decided returning detail not necessary
Return 412		Water	11/19/2021	yes	no	No detail provided for reference. Text and AWWA list what is necessary for decommissioning water service line.
add detail	Add detail for decommissioning water service lines	Water		yes	no	
Streets						
	Streets sent a PDF (SKM 2020 standard drawings) of requested updates - notes added to each sheet. Comments emailed back to him	Scott	9/23/2021	yes	no	Reply sent with specific reasons. Some details already included in Standards and other requests did not meet city code or standards.
						Note states that "Final saw cuts must be 6" wider than than the width of the roller to be used for compaction;" and the detail shows the cut must be 12" each side. If it's a 6" wide roller and the pipe is 12" - the minimum trench would be 5" based on the detail but the 6" roller would make the final T-cut requirement 6.5" wide for that trench
510	Drawing shows 12" min. notes say 6" min please make notes match.			yes	no	
	Add staking and change tree size note since they					

19 detail change requests
6 changes made
13 because already in PWS

Add detail	Add Wenatchee garbage can detail			yes	no	Some top, block removable liner?
Add detail	Typical sign installation detail			yes	no	already on OSD detail so already in PWS
						Speed bumps not used in Milwaukie. Fire Dept. and PW maintenance requested no speed bumps be installed along roads. Fire Dept. prefers speed cushions if anything is installed, but still impedes street sweeping and snow plowing.
Add detail new	Speed Bump detail and marking detail add subgrade stabilization detail			yes	no	



**QUESTIONS OR
COMMENTS?**