

RESOLUTION NO. 5314-17

A RESOLUTION UPDATING THE PUBLIC WORKS CONSTRUCTION CODE

WHEREAS, Tualatin Municipal Code (TMC) 2-3-010 establishes the Public Works Construction Code (PWCC) as the standards, specifications and procedures used for all Public Works Construction within the City; and

WHEREAS, under Tualatin Municipal Code 2-3-020, the City Engineer has the duty to maintain and update the PWCC, subject to Council approval by resolution; and

WHEREAS, the PWCC was adopted by Council resolution on October 8, 2001, and subsequently amended on February 11, 2002; October 14, 2002; March 10, 2003; March 22, 2004; April 12, 2010; July 26, 2010; September 26, 2011; and February 25, 2013; and December 12, 2016; and

WHEREAS, the City Engineer is recommending the PWCC be amended;

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF TUALATIN, OREGON, that:

Section 1. PWCC Section 102.3.3 is deleted and replaced to read as follows:

102.3.3 Erosion Control Fees

For all projects involving activities requiring an erosion control permit and which are not covered by a building permit, the applicant must pay the fees shown in the current version of the City of Tualatin Fee Schedule located on the City of Tualatin website.

Section 2. PWCC Section 102.3.4 is deleted and replaced to read as follows:

102.3.4 Water Quality Fees

For all projects involving activities requiring a water quality permit the applicant must pay the fees shown in the current version of the City of Tualatin Fee Schedule located on the City of Tualatin website.

Section 3. PWCC Section 203.2.01 is deleted and replaced to read as follows:

203.2.01 Design Speed

The minimum design speed for each road classification is the posted speed or as directed by the City Engineer, in accordance with Oregon Revised Statutes (ORS) 810.180.

Section 4. PWCC Section 312.5.0 is deleted and replaced to read as follows:

312.5.00 Sidewalk Repair

When sidewalk, curb, and gutter require repair, the following requirements apply.

312.5.01 Vertical Separation

General. Grind sidewalk joints and cracks with vertical discontinuities (offsets) between 1/4-inch and 1-inch to reduce trip hazards. The maximum taper of ground areas shall conform to the Americans with Disabilities Act (ADA) requirements. The minimum width of grind shall be 6”.

Height of vertical offset	Requirement
Less than 1/4-inch	No grinding is required
Between 1/4-inch and 1/2-inch	Bevel with a slope not steeper than 50 percent (1:1)
Between 1/2-inch and 1-inch	Do not exceed 8.33 percent (1:12) in the direction of travel

Finish and Appearance. Grind vertical offsets to produce a smooth non-skid surface closely resembling the appearance and skid resistance of the adjacent concrete. Perform grinding so the sidewalk surface has essentially the same or slightly rougher texture as the surface adjacent to either side of the joint or crack. Provide a slip-resistant surface for all ground surfaces.

Perform grinding so the shape of grind is approximately rectangular with a straight back line and no stray grinding marks. Grind bevel uniformly across entire length of vertical offset. Smooth sharp edges left by the grinding operations. Do not grind adjacent concrete. Repair all scars or damage caused by the grinding operation.

Grind and fill holes and cracks as directed in accordance with Public Works Construction Code Section 312.5.02 – Horizontal Separations.

Hand Grinding. Grind areas that are inaccessible to the grinding machine with a hand held grinder to the same standards as required for machine grinding.

Dust Control. Control visible dust from grinding operations by equipping grinding machines with a vacuum dust control system to provide a dust free work area or by using small amounts of water as a dust control agent. Size vacuum dust collection system according to the manufacturer’s recommendations with minimum suction sufficient to eliminate visible dust and a 2-inch diameter hose. Apply water to work area using an automatic water feed system designed for use with the grinding equipment or apply water to the work area by hand using a spray nozzle.

Control and Clean up. Throughout all phases of construction keep the work site clean and free from rubbish and debris. If water is used as a dust control agent, remove slurry using a wet-dry shop vacuum. Do not allow concrete dust or other debris to leave the work area and enter the local storm drainage system including the curb and gutter, roadside ditches, or overland flow.

Ownership and Disposal of Grinding Residue. Before moving on to the next vertical offset, sweep work area clean and vacuum all slurry and dust produced during grinding. Grinding residue becomes the property of the Contractor. Dispose of the residual material in accordance with State and Federal laws.

Public convenience and safety. Meet requirements of Public Works Construction Code Section 302.0.00. When the work requires a section of sidewalk to be closed and pedestrian traffic prohibited, place Type 1 barricades with "sidewalk closed" signs on the sidewalk facing the direction of travel and cone off the work area as need to maintain a safe environment.

Payment. Payment for each "Grind" and "Grind and Fill" shall be made at the unit bid price per each, regardless of the height or horizontal extents of the "Grind" and regardless of the height, horizontal extents, or depth of the "Grind and Fill".

Payment for each item will include full compensation for furnishing all labor, materials, tools, equipment and backup equipment; mobilization, traffic control, transportation and technical competence for performing all work necessary to complete each item as directed and as specified in these Contract Documents, including but not limited to obtaining all applicable certifications necessary for specialty personnel and equipment and all applicable permits; equipment and materials to be used on the job, disposal of waste materials, and restoration of each work area site.

312.5.02 Horizontal Separation

Sidewalk shall be repaired when the horizontal separation is ½-inch or greater by filling the void with grout.

Section 5. The following Standard Drawings are deleted and replaced as set forth in Exhibit A, which are attached and incorporated by reference.

- 440 (Commercial Driveway Approach – Curbside Planter)
- 441 (Commercial Driveway Approach – Curbside Sidewalk)
- 442 (Residential Driveway Approach – Curbside Planter Strip)
- 443 (Residential Driveway Approach – Curbside Sidewalk)
- 470 (Curb and Gutter)
- 471 (Curb)

Section 6. Standard Drawing 444 (Approach Private Driveway) is deleted.

Section 7. Standard Drawings 001 (Example Single Family Erosion & Sediment Control Site Plan) is added, as set forth in Exhibit B, which is attached and incorporated by reference.

Section 8. References in the Standard Drawings Table of Contents to the following Standard Drawings in progress are deleted.

- 044 (Ditch Inlet 27-Inch)
- 051 (Frame and Grate Ditch Inlet)
- 435 (Bicycle/Pedestrian Asphalt Concrete Path)
- 436 (Bicycle Path Concrete)
- 437 (Pedestrian Access Concrete Path)
- 438 (Pedestrian Path Crushed Rock)
- 515 (Typical Sign and Street Tree Location)
- 618 (Pressure Reducing/Sustaining Assembly)
- 619 (Pressure Reducing Assembly)

Section 9. The City Engineer, or designee, is authorized to change the wording of captions; rearrange sections and change reference numbers to agree with renumbered chapters, sections or other parts; substitute the proper subsection, section, chapter or other division numbers; strike out figures or words that are merely repetitious; change capitalization and style for the purpose of uniformity; and correct manifest clerical or typographical errors.

Section 10. To the extent this resolution conflicts with a prior resolution involving the PWCC, the provisions of this resolution control.

Section 11. This resolution is effective upon adoption.

INTRODUCED AND ADOPTED this 24th day of April, 2017.

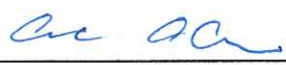
CITY OF TUALATIN OREGON

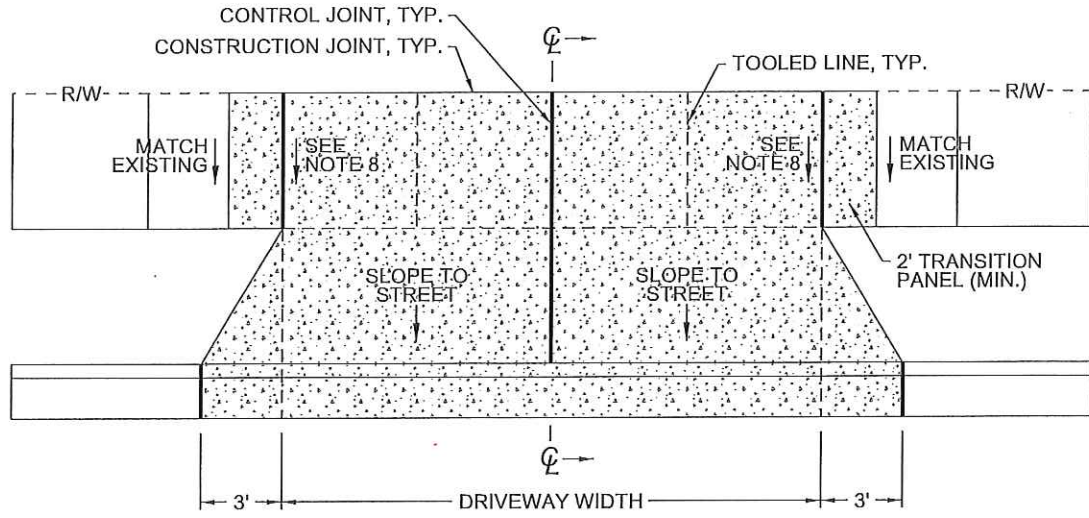
BY  Mayor

APPROVED AS TO LEGAL FORM

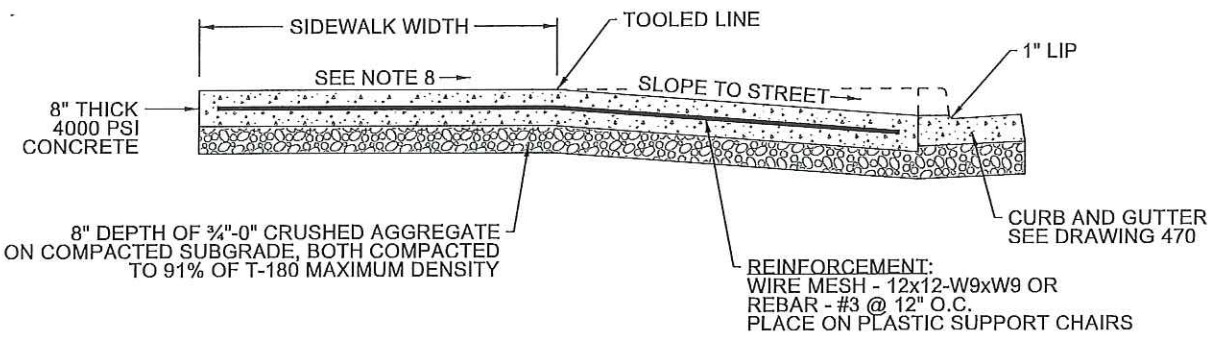
BY  City Attorney

ATTEST

BY  Acting City Recorder (Alice Cannon)




PLAN

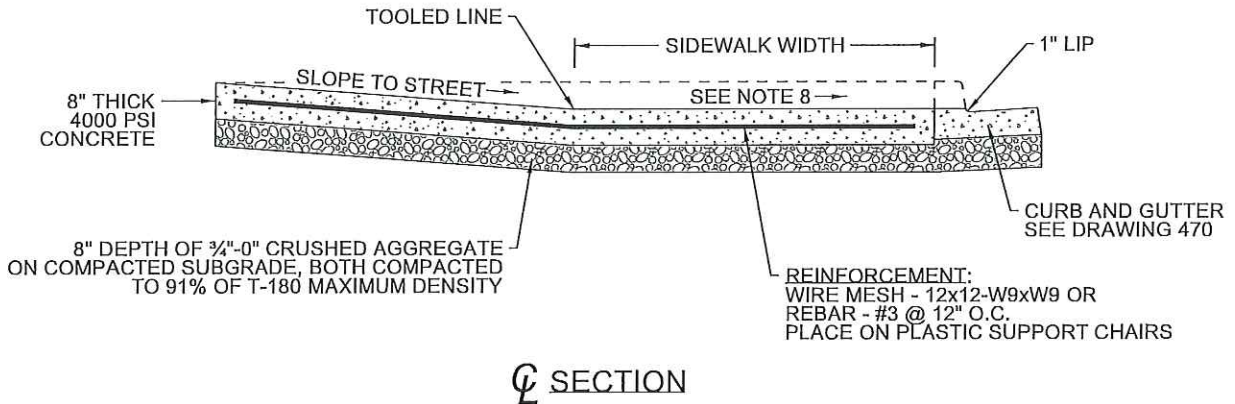
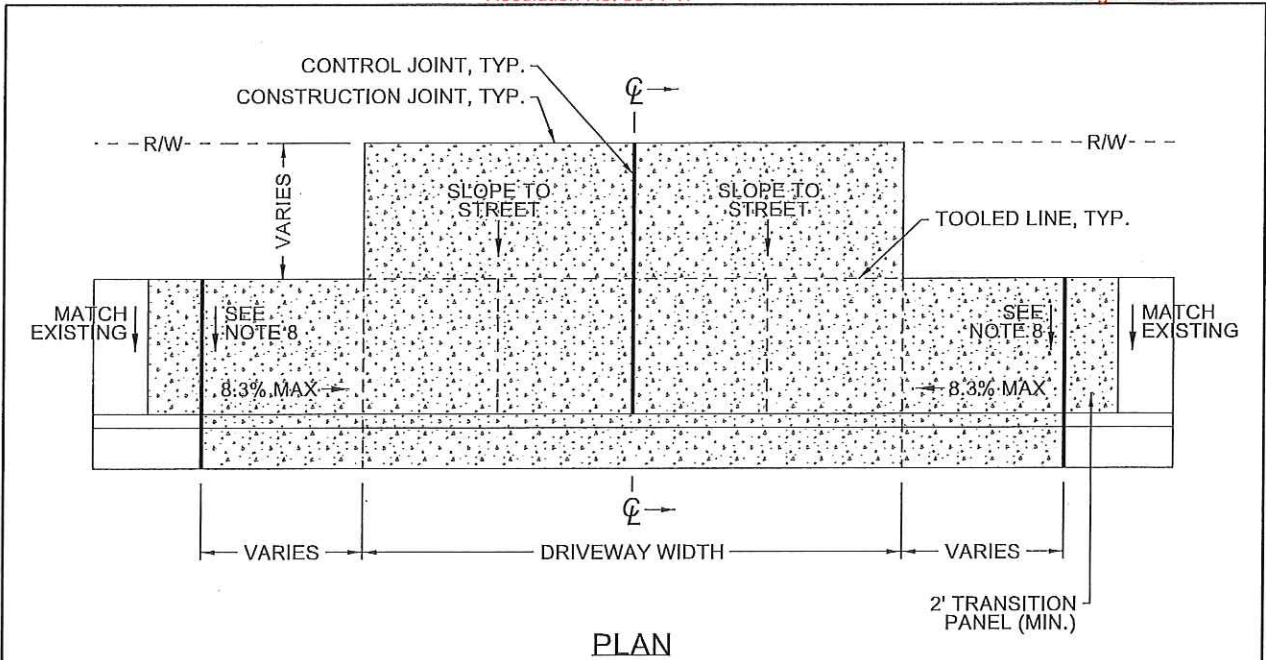


SECTION

NOTES:

1. CONTROL JOINTS SHALL BE WEAKENED PLANE TYPE FORMED TO A DEPTH 2-3/4" WITH TOOLED EDGES (1/4" R EDGE, 3" FLAT) EXCEPT IN CURB AND GUTTER (1/4" R EDGE ONLY). NO MESH ACROSS CONTROL JOINTS.
2. TOOLED LINES ARE FOR COMESTIC PURPOSES ONLY, 1/4" R EDGE, 3" FLAT.
3. FOR LOCATION AND WIDTH OF DRIVEWAYS, MEET THE REQUIREMENTS OF THE TUALATIN DEVELOPMENT CODE.
4. FINISH CONCRETE APPROACH RAMP WITH BRUSH FINISH TRANSVERSE TO CENTERLINE.
5. POUR APPROACH SLAB AND WINGS (BOTH 8" THICK) MONOLITHIC WITH CURB AND GUTTER IF SO DIRECTED BY ENGINEER.
6. BEFORE OPENING TO TRAFFIC, ATTAIN 4,000 PSI COMPRESSIVE STRENGTH.
7. REMOVE THE CURB AND GUTTER IN ITS ENTIRETY AND POUR BACK AS A MONOLITHIC POUR IF AN EXISTING CURB AND GUTTER IS MODIFIED AS PART OF A DRIVEWAY APPROACH.
8. SIDEWALK CROSS SLOPE TO BE MAX 1.5% DESIGN SLOPE (2.0% MAX FINISHED SURFACE SLOPE).

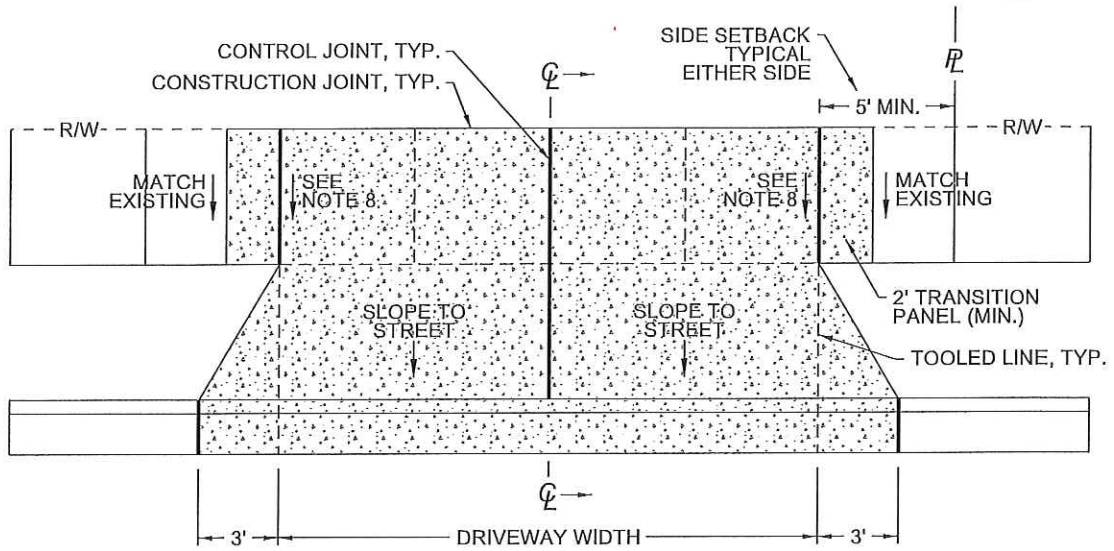
 CITY OF TUALATIN, OR		COMMERCIAL DRIVEWAY APPROACH CURBSIDE PLANTER STRIP	
REVISED: 04/07/2017 EFFECTIVE: 04/24/2017	SCALE:	DRAFTED BY: M. PALMER APPROVED BY: J. FUCHS	DRAWING NO: 440



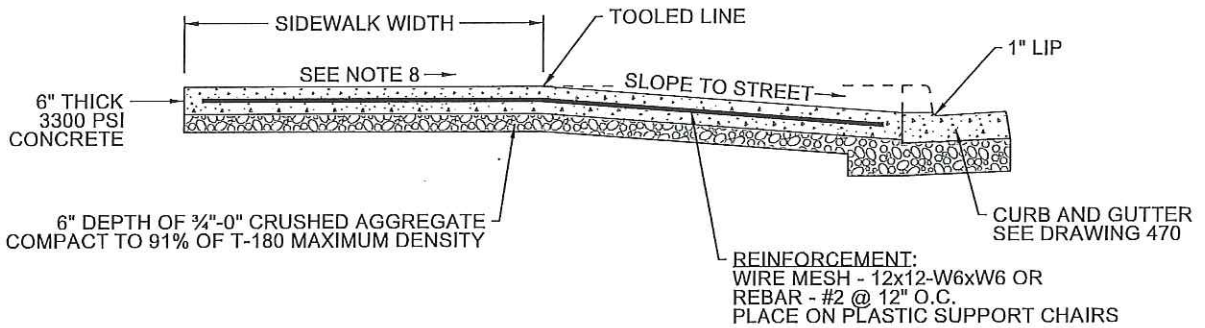
NOTES:

1. CONTROL JOINTS SHALL BE WEAKENED PLANE TYPE FORMED TO A DEPTH 2-3/4" WITH TOOLED EDGES (1/4" R EDGE, 3" FLAT) EXCEPT IN CURB AND GUTTER (1/4" R EDGE ONLY). NO MESH ACROSS CONTROL JOINTS.
2. TOOLED LINES ARE FOR COMESTIC PURPOSES ONLY, 1/4" R EDGE, 3" FLAT.
3. FOR LOCATION AND WIDTH OF DRIVEWAYS, MEET THE REQUIREMENTS OF THE TUALATIN DEVELOPMENT CODE.
4. FINISH CONCRETE APPROACH RAMP WITH BRUSH FINISH TRANSVERSE TO CENTERLINE.
5. POUR APPROACH SLAB AND RAMPS (BOTH 8" THICK) MONOLITHIC WITH CURB AND GUTTER IF SO DIRECTED BY ENGINEER.
6. BEFORE OPENING TO TRAFFIC, ATTAIN 4,000 PSI COMPRESSIVE STRENGTH.
7. REMOVE THE CURB AND GUTTER IN ITS ENTIRETY AND POUR BACK AS A MONOLITHIC POUR IF AN EXISTING CURB AND GUTTER IS MODIFIED AS PART OF A DRIVEWAY APPROACH.
8. SIDEWALK CROSS SLOPE TO BE MAX 1.5% DESIGN SLOPE (2.0% MAX FINISHED SURFACE SLOPE).

	CITY OF TUALATIN, OR		COMMERCIAL DRIVEWAY APPROACH CURBSIDE SIDEWALK	
	REVISED: 04/07/2017 EFFECTIVE: 04/24/2017	SCALE:	DRAFTER BY: M. PALMER APPROVED BY: J. FUCHS	DRAWING NO:



PLAN



SECTION

NOTES:

1. CONTROL JOINTS SHALL BE WEAKENED PLANE TYPE FORMED TO A DEPTH 2" WITH TOOLED EDGES (1/4"R EDGE, 3" FLAT) EXCEPT IN CURB AND GUTTER (1/4"R EDGE ONLY). NO MESH ACROSS CONTROL JOINTS.
2. TOOLED LINES ARE FOR COMESTIC PURPOSES ONLY, 1/4"R EDGE, 3" FLAT.
3. FOR LOCATION AND WIDTH OF DRIVEWAYS, MEET THE REQUIREMENTS OF THE TUALATIN DEVELOPMENT CODE.
4. FINISH CONCRETE APPROACH RAMP WITH BRUSH FINISH TRANSVERSE TO CENTERLINE.
5. POUR APPROACH SLAB AND WINGS (BOTH 6" THICK) MONOLITHIC WITH CURB AND GUTTER IF SO DIRECTED BY ENGINEER.
6. BEFORE OPENING TO TRAFFIC, ATTAIN 3,300 PSI COMPRESSIVE STRENGTH.
7. REMOVE THE CURB AND GUTTER IN ITS ENTIRETY AND POUR BACK AS A MONOLITHIC POUR IF AN EXISTING CURB AND GUTTER IS MODIFIED AS PART OF A DRIVEWAY APPROACH.
8. SIDEWALK CROSS SLOPE TO BE MAX 1.5% DESIGN SLOPE (2.0% MAX FINISHED SURFACE SLOPE).



**CITY OF
TUALATIN, OR**

**RESIDENTIAL DRIVEWAY
APPROACH
CURBSIDE PLANTER STRIP**

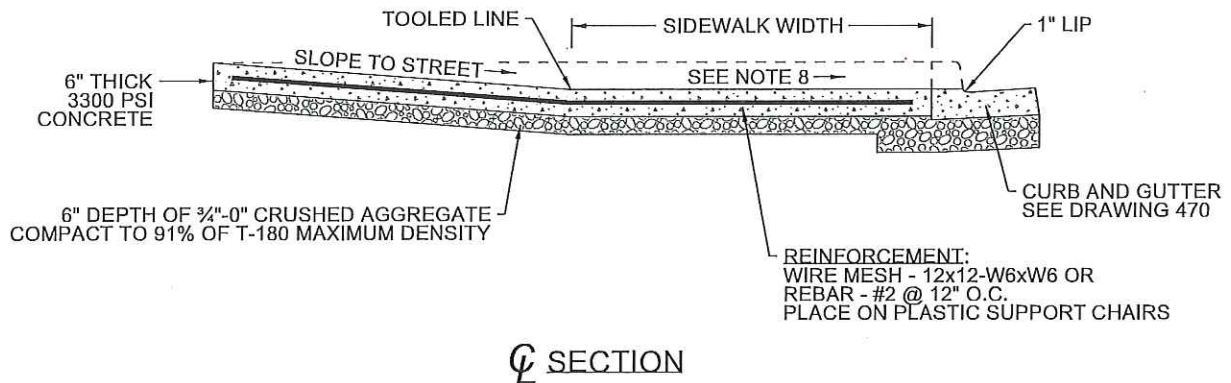
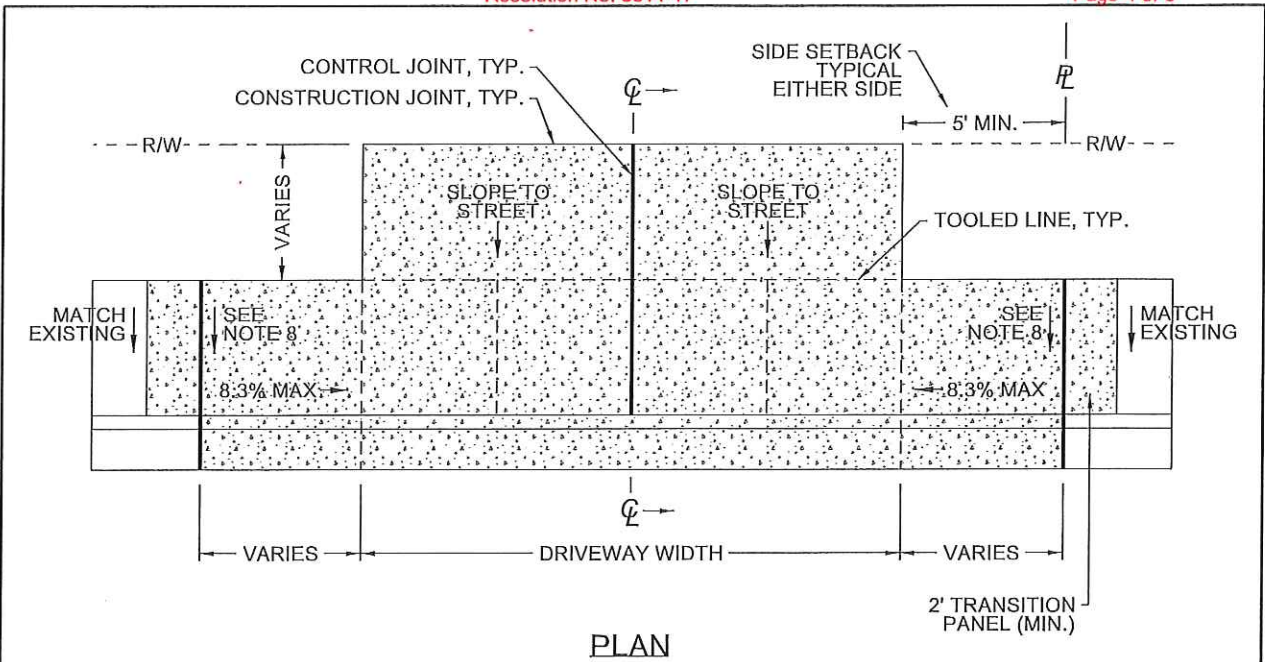
REVISED: 04/07/2017
EFFECTIVE: 04/24/2017

SCALE:

DRAFTED BY: M. PALMER
APPROVED BY: J. FUCHS


DRAWING NO:

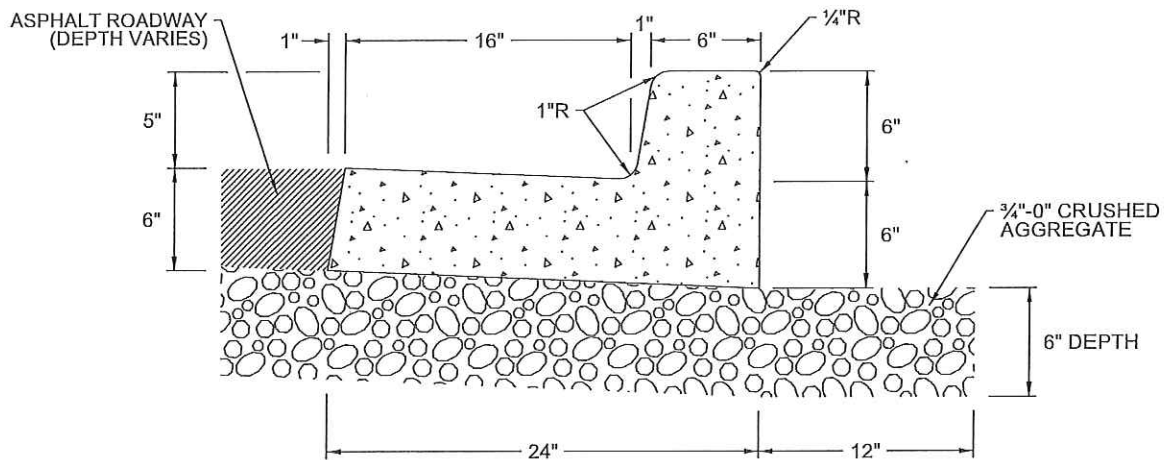
442



NOTES:

1. CONTROL JOINTS SHALL BE WEAKENED PLANE TYPE FORMED TO A DEPTH 2" WITH TOOLED EDGES (1/4" R EDGE, 3" FLAT) EXCEPT IN CURB AND GUTTER (1/4" R EDGE ONLY). NO MESH ACROSS CONTROL JOINTS.
2. TOOLED LINES ARE FOR COMESTIC PURPOSES ONLY, 1/4" R EDGE, 3" FLAT.
3. FOR LOCATION AND WIDTH OF DRIVEWAYS, MEET THE REQUIREMENTS OF THE TUALATIN DEVELOPMENT CODE.
4. FINISH CONCRETE APPROACH RAMP WITH BRUSH FINISH TRANSVERSE TO CENTERLINE.
5. POUR APPROACH SLAB AND RAMPS (BOTH 6" THICK) MONOLITHIC WITH CURB AND GUTTER IF SO DIRECTED BY ENGINEER.
6. BEFORE OPENING TO TRAFFIC, ATTAIN 3,300 PSI COMPRESSIVE STRENGTH.
7. REMOVE THE CURB AND GUTTER IN ITS ENTIRETY AND POUR BACK AS A MONOLITHIC POUR IF AN EXISTING CURB AND GUTTER IS MODIFIED AS PART OF A DRIVEWAY APPROACH.
8. SIDEWALK CROSS SLOPE TO BE MAX 1.5% DESIGN SLOPE (2.0% MAX FINISHED SURFACE SLOPE).

	<h2 style="margin: 0;">CITY OF TUALATIN, OR</h2>	<h3 style="margin: 0;">RESIDENTIAL DRIVEWAY APPROACH CURBSIDE SIDEWALK</h3>
REVISED: 04/07/2017 EFFECTIVE: 04/24/2017	SCALE:	DRAFTED BY: M. PALMER APPROVED BY: J. FUCHS
		DRAWING NO: 443



NOTES:

1. CONCRETE, 4%-7% AIR, SHALL ATTAIN 3300 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
2. CONTROL JOINTS OF THE WEAKENED PLANE TYPE, DOWN THROUGH THE CURB TO HALF THE DEPTH OF THE GUTTER, SHALL BE SPACED AT 15' INTERVALS AND AT POINTS OF TANGENCY. FINISH THE EXPOSED EDGE WITH 1/4" RADIUS EDGER. DO NOT USE EXPANSION JOINTS.
3. CONSTRUCTION JOINTS SHALL BE FORMED WITH A SMOOTH FACE SQUARE TO THE CURB AND DOWN THROUGH HALF THE DEPTH OF THE GUTTER. FINISH FUTURE EXPOSED EDGE WITH 1/4" RADIUS EDGER. THE LOWER HALF OF THE GUTTER CROSS SECTION SHALL BE LEFT WITH A ROUGH EXPOSED AGGREGATE SURFACE TO INTERLOCK WITH A FUTURE EXTENSION OF THE CURB AND GUTTER.
4. BASE ROCK UNDER THE CURB AND ALSO PLACED 12" BEYOND THE BACK OF THE CURB SHALL BE COMPACTED TO 91% OF T-180 MAXIMUM DENSITY.
5. DRAINAGE WEEP HOLES OF 3" DIAMETER PVC SCHEDULE 40 PIPE SHALL BE PLACED THROUGH THE CURB 1/2" ABOVE THE GUTTER INVERT AND EXTEND 3" BEYOND THE BACK OF THE CURB AT POSITIONS SHOWN ON THE PLANS, LOW POINTS IN THE CURB, OR WHERE DETERMINED BY THE ENGINEER.
6. THE BACK OF THE CURB SHALL BE BACKFILLED NOT EARLIER THAN 7 DAYS AFTER CONCRETE PLACEMENT AND PRIOR TO THE COMPACTION OF BASE AND TOP COURSE ROCK AND PAVEMENT.
7. THE EXPOSED SURFACES SHALL BE BROOM FINISHED IN THE DIRECTION OF GUTTER FLOW.



**CITY OF
TUALATIN, OR**

CURB AND GUTTER

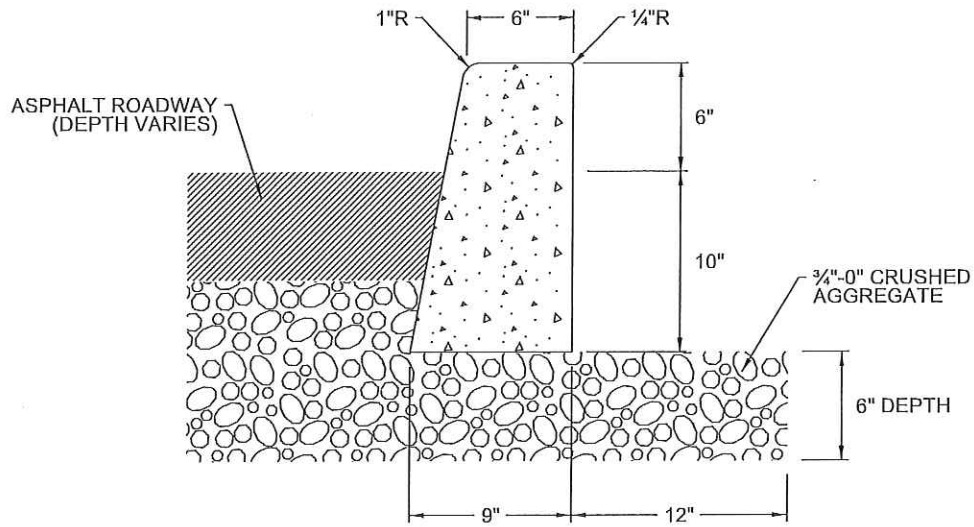
REVISED: 04/07/2017
EFFECTIVE: 04/24/2017

SCALE:

DRAFTED BY: M. PALMER
APPROVED BY: J. FUCHS

DRAWING NO:

470



NOTES:

1. CONCRETE, 4%-7% AIR, SHALL ATTAIN 3300 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
2. CONTROL JOINTS OF THE WEAKENED PLANE TYPE, DOWN THROUGH THE CURB TO HALF THE DEPTH OF THE CURB, SHALL BE SPACED AT 15' INTERVALS AND AT POINTS OF TANGENCY. FINISH THE EXPOSED EDGE WITH 1/4" RADIUS EDGER. DO NOT USE EXPANSION JOINTS.
3. CONSTRUCTION JOINTS SHALL BE FORMED WITH A SMOOTH FACE SQUARE TO THE CURB AND DOWN THROUGH HALF THE DEPTH OF THE CURB. FINISH FUTURE EXPOSED EDGE WITH 1/4" RADIUS EDGER. THE LOWER HALF OF THE CURB CROSS SECTION SHALL BE LEFT WITH A ROUGH EXPOSED AGGREGATE SURFACE TO INTERLOCK WITH A FUTURE EXTENSION OF THE CURB.
4. BASE ROCK UNDER THE CURB AND ALSO PLACED 12" BEYOND THE BACK OF THE CURB SHALL BE COMPACTED TO 91% OF T-180 MAXIMUM DENSITY.
5. DRAINAGE WEEP HOLES OF 3" DIAMETER PVC SCHEDULE 40 PIPE SHALL BE PLACED THROUGH THE CURB WITH INVERT 5 1/2" BELOW THE CURB TOP AND EXTEND 3" BEYOND THE BACK OF THE CURB AT POSITIONS SHOWN ON THE PLANS, LOW POINTS IN THE CURB, OR WHERE DETERMINED BY THE ENGINEER.
6. THE BACK OF THE CURB SHALL BE BACKFILLED NOT EARLIER THAN 7 DAYS AFTER CONCRETE PLACEMENT AND PRIOR TO THE COMPACTION OF BASE AND TOP COURSE ROCK AND PAVEMENT.
7. THE EXPOSED SURFACES SHALL BE BROOM FINISHED LONGITUDINALLY.



**CITY OF
TUALATIN, OR**

CURB

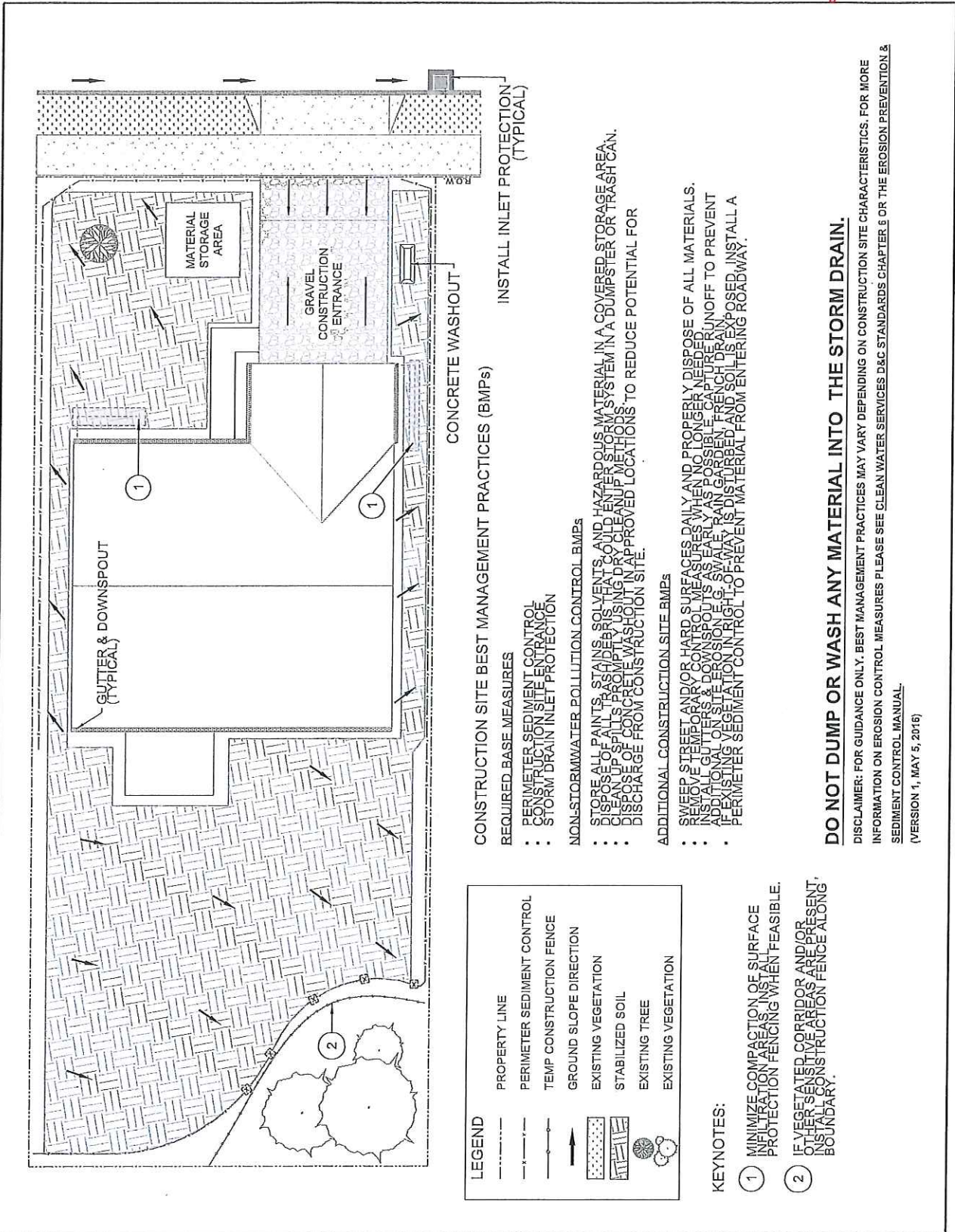
REVISED: 04/07/2017
EFFECTIVE: 04/24/2017

SCALE:

DRAFTED BY: M. PALMER
APPROVED BY: J. FUCHS

DRAWING NO:

471



CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPs)

REQUIRED BASE MEASURES

- PERIMETER SEDIMENT CONTROL
- CONSTRUCTION SITE ENTRANCE
- STORM DRAIN INLET PROTECTION

NON-STORMWATER POLLUTION CONTROL BMPs

- STORE ALL PAINTS, STAINS, SOLVENTS, AND HAZARDOUS MATERIAL IN A COVERED STORAGE AREA.
- DISPOSE OF ALL RAS/DEBRIS THAT COULD ENTER STORM SYSTEM IN A DUMPSTER OR TRASH CAN.
- DISPOSE OF ALL OILS USING DRY CLEANUP METHODS.
- DISPOSE OF CONCRETE WASHOUT IN AN APPROVED LOCATION TO REDUCE POTENTIAL FOR DISCHARGE FROM CONSTRUCTION SITE.

ADDITIONAL CONSTRUCTION SITE BMPs

- SWEEP STREET AND/OR HARD SURFACES DAILY AND PROPERLY DISPOSE OF ALL MATERIALS.
- REMOVE TEMPORARY CONTROL MEASURES WHEN NO LONGER NEEDED.
- INSTALL GUTTERS & DOWNSPOUTS AS EARLY AS POSSIBLE. CAPTURE RUNOFF TO PREVENT ADDITIONAL ON SITE EROSION (E.G. SWALE, RAIN GARDEN, FRENCH DRAIN).
- MAINTAIN VEGETATION IN RIGHT-OF-WAY. IF DISTURBED AND SOIL IS EXPOSED, INSTALL A PERIMETER SEDIMENT CONTROL TO PREVENT MATERIAL FROM ENTERING ROADWAY.

INSTALL INLET PROTECTION (TYPICAL)

CONCRETE WASHOUT

DO NOT DUMP OR WASH ANY MATERIAL INTO THE STORM DRAIN.

DISCLAIMER: FOR GUIDANCE ONLY. BEST MANAGEMENT PRACTICES MAY VARY DEPENDING ON CONSTRUCTION SITE CHARACTERISTICS. FOR MORE INFORMATION ON EROSION CONTROL MEASURES PLEASE SEE CLEAN WATER SERVICES D&C STANDARDS CHAPTER 6 OR THE EROSION PREVENTION & SEDIMENT CONTROL MANUAL.

(VERSION 1, MAY 5, 2016)

LEGEND

- PROPERTY LINE
- PERIMETER SEDIMENT CONTROL
- TEMP CONSTRUCTION FENCE
- GROUND SLOPE DIRECTION
- EXISTING VEGETATION
- STABILIZED SOIL
- EXISTING TREE
- EXISTING VEGETATION

KEYNOTES:

① MINIMIZE COMPACTION OF SURFACE MULCHATION AREAS. INSTALL PROTECTION FENCING WHEN FEASIBLE.

② IF VEGETATED CORRIDOR AND/OR STABILIZED AREAS ARE PRESENT, INSTALL CONSTRUCTION FENCE ALONG BOUNDARY.

		EXAMPLE SINGLE FAMILY EROSION & SEDIMENT CONTROL SITE PLAN	
REVISED: 04/07/2017 EFFECTIVE: 04/24/2017	SCALE:	DRAFTED BY: M. PALMER APPROVED BY: J. FUCHS	DRAWING NO: 001



PUBLIC WORKS CONSTRUCTION CODE

CITY OF TUALATIN

ENGINEERING DIVISION

18880 S.W. MARTINAZZI AVENUE
TUALATIN, OR 97062-7092

NOVEMBER 2001

LATEST REVISION: APRIL 24, 2017

The selection and use of the enclosed specifications and standards, while in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a registered professional engineer.

REVISIONS SUMMARY

April 24, 2017 Revisions (Adopted under Resolution No. 5314-17)

Revised Specification Sections:

- Section 102.3.3 "Erosion Control Fees"
- Section 102.3.4 "Water Quality Fees"
- Section 203.2.01 "Design Speed"
- Section 312.5.00 "Sidewalk Repair"

Revised Standard Drawings:

- Commercial Driveway Approach – Curbside Planter Strip (Drawing No 440)
- Commercial Driveway Approach – Curbside Sidewalk (Drawing No 441)
- Residential Driveway Approach – Curbside Planter Strip (Drawing No 442)
- Residential Driveway Approach – Curbside Sidewalk (Drawing No 443)
- Curb and Gutter (Drawing No 470)
- Curb (Drawing No 471)

New Standard Drawings:

- Example Single Family Erosion & Sediment Control Site Plan (Drawing No 001)

Deleted Standard Drawings:

- Approach Private Driveway (Drawing No 444)

December 12, 2016 Revisions (Adopted under Resolution No. 5302-16)

Revised Specification Sections:

- Section 202.1.00 "Scope"
- Section 202.2.00 "Plan View"
- Section 203.2.02 "Sight Distance"
- Section 203.2.04 "Superelevation"
- Section 203.2.08 "Intersections"
- Section 203.2.11C "Accessways"
- Section 203.2.14 "Sidewalks"
- Section 203.2.15 "Curb Ramps"
- Section 203.2.24A "Design and Installation Requirements"
- Section 203.2.25 "Traffic Signs"
- Section 203.2.27 "Traffic Marking"
- Section 311.3.05 "Control Joints"
- Section 312.3.05 "Control Joints"
- Section 312.3.07 "Finish"

Revised Standard Drawings:

- ADA Ramp – General Notes (Drawing No 460)
- ADA Ramp – Perpendicular (Drawing No 461)
- ADA Ramp – Parallel (Drawing No 462)
- ADA Ramp – Midblock (Drawing No 463)
- Concrete Sidewalk (Drawing No 475)
- Street Sign Post (Drawing No 516)

New Standard Drawings:

- ADA Ramp – Details (Drawing No 464)
- Street Name Sign (Drawing No 517)

Standard Drawings Table of Contents

NUMBER	EFF. DATE	TITLE
001	Apr-17	EXAMPLE SINGLE FAMILY EROSION & SEDIMENT CONTROL SITE PLAN
010	Oct-01	48-INCH MANHOLE ECCENTRIC CONE TOP
011	Oct-01	48-INCH MANHOLE FLAT TOP
012	Oct-01	60-INCH MANHOLE ECCENTRIC CONE TOP
013	Oct-01	60-INCH MANHOLE FLAT TOP
014	Oct-01	72-INCH MANHOLE ECCENTRIC CONE TOP
015	Oct-01	72-INCH MANHOLE FLAT TOP
016	Oct-01	84-INCH MANHOLE ECCENTRIC CONE TOP
017	Oct-01	84-INCH MANHOLE FLAT TOP
018	Oct-01	96-INCH MANHOLE ECCENTRIC CONE TOP
019	Oct-01	96-INCH MANHOLE FLAT TOP
020	Feb-00	MANHOLE OUTSIDE DROP ASSEMBLY
021	Mar-04	MANHOLE INSIDE DROP ASSEMBLY
030	Jul-96	MANHOLE COVER AND FRAME
031	Jun-97	MANHOLE COVER AND FRAME WATERTIGHT
032	Feb-98	MANHOLE STEPS
040	Dec-01	CATCH BASIN GUTTER GRATE INLET 36-INCH
041	Dec-01	CATCH BASIN CURB INLET 30-INCH
042	Dec-01	CATCH BASIN CURB INLET 48-INCH
043	Dec-01	DITCH INLET 24-INCH
044	xxx	DITCH INLET 27-INCH
050	Feb-02	FRAME AND GRATE CATCH BASIN
051	xxx	FRAME AND GRATE DITCH INLET
060	Mar-03	MANHOLE WATER QUALITY CONTROL
100	Feb-98	SEWER CLEANOUT
240	Oct-01	PIPE TRENCH BACKFILL
270	Mar-03	CONCRETE PIPE SLOPE ANCHORS
290	Mar-04	UNDERCROSSING
300	Mar-03	SEWER BUILDING LATERAL (SERVICE)

Standard Drawings Table of Contents

NUMBER	EFF. DATE	TITLE
310	Jan-02	SUBGRADE DRAIN
330	Mar-03	PIPELINE STREAM CROSSING
425	Jul-92	UTILITY LOCATIONS
435	xxx	BICYCLE/PEDESTRIAN ASPHALT CONCRETE PATH
436	xxx	BICYCLE PATH CONCRETE
437	xxx	PEDESTRIAN ACCESS CONCRETE PATH
438	xxx	PEDESTRIAN PATH CRUSHED ROCK
450	Oct-02	PARABOLIC SPEED HUMP CONSTRUCTION
451	Oct-02	PARABOLIC SPEED HUMP PAVEMENT MARKINGS & STREET SIGNS
452	Oct-02	SPEED TABLE HUMP CONSTRUCTION
453	Oct-02	SPEED TABLE HUMP PAVEMENT MARKINGS AND STREET SIGNS
460	Dec-16	ADA RAMP – GENERAL NOTES
461	Dec-16	ADA RAMP – PERPENDICULAR
462	Dec-16	ADA RAMP – PARALLEL
463	Dec-16	ADA RAMP – MIDBLOCK
464	Dec-16	ADA RAMP – DETAILS
470	Apr-17	CURB AND GUTTER
471	Apr-17	CURB
475	Dec-16	CONCRETE SIDEWALK
500	Oct-01	MAILBOX POST INSTALLATION
510	Feb-02	STREET BARRICADE
511	Feb-02	STREET BARRICADE SIGN
512	Mar-04	STORMWATER FACILITY SIGN
514	Feb-13	TREE WELL AND GRATE
515	xxx	TYPICAL SIGN AND STREET TREE LOCATION
516	Dec-16	STREET SIGN POST
517	Dec-16	STREET NAME SIGN
520	Apr-10	CENTERLINE SURVEY MONUMENT

Standard Drawings Table of Contents

NUMBER	EFF. DATE	TITLE
600	Apr-10	GATE VALVE AND BOX
601	Apr-10	BUTTERFLY VALVE AND BOX
602	Mar-08	1-INCH AIR RELEASE VALVE
603	Mar-08	2-INCH AIR RELEASE VALVE
604	Mar-08	SAMPLE STATION
605	Mar-08	VALVE ASSEMBLY PERMANENT BLOW-OFF
606	Mar-08	VALVE ASSEMBLY TEMPORARY BLOW-OFF
607	Mar-08	OUTSIDE RPBA 2" AND SMALLER
608	Mar-08	INSIDE RPBA 2" AND SMALLER
609	Mar-08	INSIDE RPBA 3/4"- 1"
610	Mar-03	FIRE HYDRANT ASSEMBLY
611	Mar-08	INSIDE RPBA 1 1/2"- 2 1/2"
612	Mar-08	INSIDE RPBA 2 1/2"- 10"
613	Mar-08	BACKFLOW ASSEMBLY DOUBLE CHECK 3" THRU 10"
614	Mar-08	BACKFLOW ASSEMBLY FIRE PROTECTION WITHOUT FDC
615	Mar-08	BACKFLOW ASSEMBLY FIRE PROTECTION WITH FDC
616	Mar-08	BACKFLOW ASSEMBLY REDUCED PRESSURE 3/4" THRU 2"
617	Mar-08	BACKFLOW ASSEMBLY REDUCED PRESSURE 2 1/2" THRU 10"
618	xxx	PRESSURE REDUCING/SUSTAINING ASSEMBLY
619	xxx	PRESSURE REDUCING ASSEMBLY
620	Feb-02	JOINT RESTRAINT BEARING THRUST BLOCKS
621	Oct-01	JOINT RESTRAINT GRAVITY THRUST BLOCKS
622	Oct-01	JOINT RESTRAINT STRADDLE THRUST BLOCK
630	Apr-10	WATER SERVICE 5/8" x 3/4" METER
631	Mar-08	WATER SERVICE 1" METER
632	Mar-08	WATER SERVICE 1 1/2" METER
633	Mar-08	WATER SERVICE 2" METER
634	Mar-08	WATER SERVICE 3" AND LARGER METER COMPOUND TYPE
635	Mar-08	WATER SERVICE 4" AND LARGER METER FIRE SERVICE TYPE

~~xxx~~ -- Denotes drawing in progress and not included in this document