

OREGON DEPARTMENT OF TRANSPORTATION
CONSTRUCTION SECTION
NONFIELD-TESTED MATERIALS ACCEPTANCE GUIDE
2015 STANDARD SPECIFICATIONS

June 2016 UPDATE



Updated versions of this guide are available by printing from the web address listed below. This document is to be used as a guide for documentation required for acceptance of materials on ODOT Construction projects and does not relieve the user of requirements specified in the Construction Project Documents. Please notify the Contract Administration Unit, In the Construction Section at the ODOT Materials Laboratory, of any changes in Standard Drawings, Special Provisions, or Specifications, etc., which would require additions to, deletions from, or changes to this listing.

Internet Address: <http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/docs/NFTMAG2015.pdf>

**OREGON DEPARTMENT OF TRANSPORTATION
NONFIELD-TESTED MATERIALS ACCEPTANCE GUIDE
2015 STANDARD SPECIFICATIONS**

June 2016 Update

SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS			REMARKS	
				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB		BY FIELD
				LAB	PM			
<p>This Guide provides a summary of acceptance documents for frequently used items. New materials or materials which are infrequently used may not be listed in this Guide. Consult the Contract Documents for acceptance documentation for these items.</p> <p style="text-align: center;">This Guide does not have precedence over the Special Provisions, Contract Plans, or Standard Specifications.*</p>								
<p>E – Equipment Lists and Drawings / Procedures L – ODOT Central Materials Laboratory or Inspection Report W – Warranty (Manufacture or Workmanship) P – Proof of License/Certification or Apprentice Application M – Manufacturer’s Field Representative Report</p>			<p>F – Field Inspection Report (FIR) O – Certificate of Materials Origin (00160.20 for Federal Aid projects) BG – Blue and Green Sheets (see section 00960, 00970 or 00990) RC – RoCap Testing P/R – DEQ Permit or Compost Producer Registration</p>					
<p>Q - Quality Compliance Certificate – The Certificate from the manufacturer shall: • Certify that the material meets the contract requirements and identify the specified test methods used by number (ODOT, AASHTO, ASTM, UL or other) • Permit positive determination that material delivered to the project is the same material covered by the certificate • Be delivered to the Engineer’s representative with the shipment of the material, or be an identification plate or mark, decal, sticker, label, or tag attached to the container or material.</p> <p>T – Test Results Certificate – The Certificate from the manufacturer shall: • Certify that the material has been sampled and tested and that the test results meet the Specifications • Include a copy of the test results (ODOT, AASHTO, ASTM, UL or other) • Identify the testing agency and the representative responsible for the test results • Permit positive determination that material delivered to the project is the same material covered by the certificate • Be delivered to the Engineer with the shipment of the material.</p> <p>Small Quantity - a method for accepting relatively small quantities of materials as noted in this Guide without normal sampling and testing. Normal acceptance of materials may be waived by the Project Manager when requested in writing by the Contractor. Small Quantity acceptance requirements are listed in the Guide along with the maximum amount of material that can be accepted as small quantity.</p> <p>QPL – For some materials this Guide will refer to the Qualified Products List. When using a QPL “A” or “Q” List product, document with an FIR and attach a copy of the QPL sheet. In the QPL there is a column labeled “List”. If there is an “A” in that column for the particular item you are looking up, no sampling or testing is required, it is approved for use. Simply document in an FIR your recognition of the product and its existence on the Approved “A” List. Material listed as approved (A) on the current Qualified Products List (QPL) fulfill the requirements for a Quality Compliance Certificate (Q) for acceptance. When approval is given to use a product that is not listed on the current QPL, a Contract Change Order will need to be executed and a Quality Compliance Certificate will be required. The Agency may require testing.</p> <p>If there is a “Q” in that column the product is Qualified and is suitable for use in that specific category. Job Control testing or additional certification may still be necessary. Consult the Contract documents for further information.</p>								

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00225	Work Zone Traffic Control	Temporary Signing	00225.11					<p>The PM is not required to submit quality documentation with semi-final submittal for temporary items that are removed from the project. The PM must still ensure that the specified materials are used by acquiring and retaining the appropriate documentation.</p> <p>Follow requirements of contract documents including standard drawings and QPL when applicable.</p>	
		Temporary Barricades, Guardrail, Barrier, Attenuators, and Channelizing Devices	00225.12						
		Temporary Traffic Delineation	00225.13						
		Temporary Illumination	00225.14						
		Traffic Signals	00225.15						
		Temporary Electrical Signs	00225.16						
		Flagger Station Lighting	00225.17						
		Flaggers, Pilot Cars	00225.27 00225.29 00225.31		P				"P" = Current Flagger Certification.
		Traffic Control Supervisor	00225.28 00225.31 00225.32		P				"P" = Current Flagger Certification and/or Oregon Certified Traffic Control Supervisor.
		Temporary Protection and Direction of Traffic	00225.32 00225.60 00225.90(a)(2)		L				"L" is Traffic Control Inspection Report
00270	Temporary Fences	Fencing Materials	01050.10					See Contract Documents for required materials.	
		Concrete Barrier	See 00820 in this Guide						
00280	Erosion and Sediment Control	Seed (Temporary or Permanent)	01030.13		T		F	"T" is for germination and purity. Information on tag from seed bag.	
		Fertilizer	01030.14		Q		F	"Q" is from manufacturer.	
		Mulch, Hydromulch (Temporary or Permanent)	00280.14(d) 01030.15 03020		Q		F	"Q" is for manufactured mulch.	
		Slope and Channel Liner Matting – Bonded Fiber Matrix	00280.14(e) 01030.43		Q		F	Use products from the QPL "A" or "Q" list.	

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	The PM is not required to submit quality documentation with semi-final submittal for temporary items that are removed from the project. The PM must still ensure that the specified materials and BMP for Erosion control are used by acquiring and retaining the appropriate documentation. See Contract documents for required materials.	Type 2: Fiber Rolls (considered permanently incorporated due to seed), Type 2 Check Dams	00280.15(a) 01030.15(b)		T or Q		F	"T" is lab results of seed showing weed seed content. "Q" is "Oregon Certified Seed" field, or Dept of Ag Cert "weed free"	
		Compost	00280.15(a)Type 6 00280.15(f) 00280.15(g) 00280.16(d)Type 7 00280.16(e)Type 8&9 03020.00		T,Q,P/R		F	"T" is STA lab analysis of compost. "Q" is from supplier per Section 03020.10 and 00165.35. "P/R" is either a copy of the DEQ permit or the registration of the compost supplier.	
		Sediment Fence	See 00350 in this Guide. No quality acceptance documents required.						
		Sediment Barrier –Cereal Straw Based Products	00280.15(a) 00280.16(e) 01030.15(b)		Q		F,QPL	Use of prefabricated barriers from the QPL "A" or "Q" list, fulfills "Q" requirement. "Q" is "Oregon Certified Seed" field, or Dept of Ag Cert "weed free".	
		Sediment Barrier – Non-Cereal Straw Based Products	00280.16(e) 03020.00		Q		F,QPL	Approved products are on the QPL "A" or "Q" list.	
		Erosion Control Plan	00280.04					Note on test summary the date plan was received. Plan does not need to be submitted with semi-final documentation.	
00290	Environmental Protection	Environmental Protection	See Contract Specifications for required restrictions and submittals.						
		Pollution Control Plan	00290.30(b)					Note on test summary the date plan was received. Plan does not need to be submitted with semi-final documentation.	
00350	Geosynthetic Installation	Geotextile Fabric (Documentation Level A)	02320.10(c)(1)(a)		T		F	"T" is from fabric manufacturer meeting 00165.35 and 02320.10(c)(1)(a). Field includes production run numbers on FIR for delivered material.	
		Geotextile fabric (Documentation Level B)	02320.10(c)(2)		Q		F	"Q" is from fabric manufacturer.	
		Subgrade Reinforcement Geogrid (Documentation Level A)	00350 02320		T		F,QPL	Field includes production run numbers on FIR for delivered materials. "T" is from geogrid manufacturer meeting 00165.35 and 02320.10(c)(1)(b). Contact Retaining Wall Engineer in Salem (503-986-3993) to confirm geogrid meets requirements prior to acceptance of Type 1 MSEW Geogrid. When using products from the QPL 02320.10 category "Subgrade Reinforcement Geogrid" for base course reinforcement applications, check Contract Documents for additional testing requirements.	
		Subgrade Reinforcement Geogrid (Documentation Level B)	00350 02320		Q		F,QPL	"Q" is from fabric manufacturer. When using products from the QPL 02320.10 category "Subgrade Reinforcement Geogrid" for base course reinforcement applications, check Contract Documents for additional testing requirements.	

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		Type 1 MSEW Geogrid	02320		T		F,QPL	Field includes production run numbers on FIR for delivered materials. "T" is from the fabric manufacturer meeting 00165.35 and 02320.10(c)(1)(b). Contact Retaining Wall Engineer in Salem (503-986-3993) to confirm geogrid meets requirements prior to acceptance of Type 1 MSEW Geogrid.
00390	Riprap Protection	Geotextile Fabric	See 00350 in this Guide.					
00396	Shotcrete Slope Stabilization	Shotcrete	00396					See Contract Documents
		Steel Reinforcement	See 00530 in this Guide.					
		Polyvinyl Chloride Pipe (PVC)	02415.50		Q		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM designation on FIR.
		Curing Materials	02050.10		Q		F,QPL	No testing required when used on shotcrete slope stabilization.
		Grout, Non-Epoxy	02080.20				F,QPL	
		Steel Fiber Reinforcement	00396.13		Q,O		F	
00398	Rock Slope Stabilization and Reinforcement	Rock Reinforcing Bolts and Rock Reinforcing Dowels	00398.04		E			Do not proceed with the work until the Engineer has approved the work plan in writing.
		Plain Carbon Steel Anchor Bolts, Plates, Washers, Nuts, Wire Rope, Posts, Braces, Appurtenances, Support Ropes, Hardware and Wire Mesh	00398.10(a-c) 00398.11 00398.12 00398.13 00398.14 00398.46		T,Q,O		F	"T" is field verification of pullout testing on not less than 25% of anchors. "Q" is from galvanizer.
		Grout, Non-Epoxy	00398.10(e) 02080.20				F,QPL	
		Polyester Resin	00398.10(f) 00535		Q		F,QPL	
		Rock Bolts	00398.15(a) 00398.50(a)(2)		T,O		F,QPL	"T" is field proof testing of bolts. NOTE: Product 2891 is from a foreign source and will require compliance with Buy America.
		Rock Dowels	00398.15(b) 00398.50(b)(2)		T,O		F	"T" is field proof testing of at least 10%, but not less than 3 dowels.
		Net Systems	00398.16 00398.51		T,O		F	Proprietary system must meet Contract Specifications. Company representative must be at the net system pre-con and as needed during construction.

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00406	Tunneling, Boring, and Jacking	Tunneling	00406.41(a)		E		F	Submit stamped working drawings before beginning work according to 00150.35.
		Boring and Jacking	00406.41(b)		E		F	Submit unstamped and stamped working drawings before beginning work according to 00150.35.
		Pipe	See 00445 in this Guide					
		Casing	00406.12		O		F	
00411	Pipe Bursting and Slip Lining	Pipe	00410.03 00410.72 00411.01 00411.10		E,Q		F	See section 00415 for Video Pipe Inspection.
00412	Cured-in-Place Pipe Lining (CIPP)	Cured-in-Place Pipe Lining (CIPP)	00412.01	E,W			F	See section 00415 for Video Pipe Inspection. "W" is one year workmanship warranty according to 0170.85(b)(1). There is no paper warranty.
		Tube	00412.10		Q		F	
		Resin	00412.11		Q		F	
		Liner	00412.12		Q		F	
00415	Video Pipe Inspection	Video Pipe Inspection	00415		M		F	Provide video inspection and written report according to 00415.40.
00420	Salvaging Pipe	New Materials	See 00445 in this Guide.					
		Salvaged Materials	00420.10				F	"F" can be satisfied with a note in the Test Summary.
00430	Subsurface Drains	Perforated Corrugated Polyethylene Pipe	02415.10		Q		F,QPL	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, and AASHTO designation. In addition must be listed in QPL.
		Perforated Polyvinyl Chloride Pipe(PVC)	02415.50		Q		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM designation on FIR.
		Perforated Concrete Pipe	02410.10(h)		Q		F	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, and AASHTO designation.
		Perforated Corrugated Steel Pipe and Protective Coating	02420.20 02420.30		Q,O		F	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, AASHTO designation and type of coating.
		Perforated Corrugated Aluminum Alloy Pipe and Protective Coating	02420.20 02420.50		Q		F	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, AASHTO designation and type of coating.
00432	Wearing Surface Drains	Perforated Polyvinyl Chloride Pipe (PVC)	02415.50		Q		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM designation on FIR.

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00435	Prefabricated Vertical Drains	Vertical drains (Complete System)	00435.10 00435.14		Q		F	Use new drains from the QPL "A" or "Q" list or that meet Section 00435 requirements.
		Core	00435.11		T		F	"T" is from the core manufacturer.
		Jacket (Geotextile)	00435.12		T		F	"T" is from fabric manufacturer.
00445	Sanitary, Storm, Culvert, Siphon, and Irrigation Pipe	Nonreinforced Concrete Pipe	02410.10(f)				F	Listed below are the ODOT approved manufacturers:
		Reinforced Concrete Pipe	02410.10(g)		O		F	- Oldcastle Precast, Inc., Auburn, WA - SPEC Industries, Eugene, OR - Advantage Precast, Keizer, OR - Oldcastle Precast, Inc., Nampa, ID - Cascade Concrete Products, Scappoose, OR If Pipe is from a manufacturer other than those listed above, contact the Structural Materials Engineer (503-986-6628) for acceptance information prior to pipe placement.
		Rubber Gaskets and Joint Sealant for Concrete Pipes	02440.40		Q		F	
		Corrugated Steel Pipe, Pipe Arches, Protective Coating and Connecting Bands	02420.10 02420.20		Q,O		F	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, AASHTO/ASTM designation and coating type.
		Corrugated Polyethylene Pipe	02415.10		Q		F,QPL	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, and AASHTO designation. In addition must be listed in QPL.
		Polyvinyl Chloride Pipe (PVC)	02415.50		Q		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM designation on FIR.
		Ductile Iron Pipe	02420.11		Q,O		F	"Q" is markings on pipe. Field will include manufacturer, size, and AWWA designation on FIR.
		Corrugated Aluminum Alloy Pipe, Protective Coating and Connecting Bands.	02420.20 02420.40		Q		F	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name, size, and AASHTO designation and coating type.
		Polypropylene Pipe	02415.40		Q		F,QPL	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM designation on FIR.
		Solid Wall Polyethylene Pipe	02415.20		Q		F,QPL	If on QPL "Q" is markings on pipe. If not on QPL must meet 02415.20 ASTM requirements.
		Steel Reinforced Polyethylene Pipe	02415.30				F,QPL	
		Tracer Wire	00445.11(e) 00445.48		Q		F	Only required for sanitary and storm sewer installation.
00446	Trench Drains	Trench Drains	00446.11		O		F,QPL	
		Frames and Grates	00446.12		Q,O		F	

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00450	Structural Plate Shaped Structures	Galvanized Structural Plates	02430.10		Q,O		F	"Q" is manufacturer, size and AASHTO designation from the steel plates included on the FIR.	
		Aluminum Alloy Structural Plates	02430.20		Q		F	"Q" is manufacturer, size, and AASHTO designation from aluminum sheets included on the FIR.	
		Repair of Aluminum or Zinc Coating	00450.42(e) 02420.10(d)		Q		F		
		Bolts, Nuts, and Washers	02430.90		Q,O		F	"Q" is from manufacturer and galvanizer.	
		Concrete Reinforcement	See 00530 in this Guide						
00460	Paved Culvert End Slopes	Welded Wire Fabric	02510.40		Q,O		F		
		Curing Materials	00440 02050.10				F,QPL	No testing required when used on end slopes.	
00470	Manholes, Catch Basins, and Inlets	Precast Concrete Manholes, Bases, Manhole Top Slabs, Grade Rings, Catch Basins, and Inlets. <i>Vaults are NOT covered by section 00470 – please refer to contract special provisions for acceptance requirements.</i> Note: Precast concrete inlets and catch basins are required to have 4" drain holes. See Oregon Standard Drawings RD364 and RD366.	02450.10 02450.20		O		F	Listed below are the ODOT approved manufacturers: <ul style="list-style-type: none"> - Westcoast Precast, Inc., Eugene OR - Oldcastle, Wilsonville, OR - Spec Industries, Eugene, OR - Advantage Precast, Keizer, OR - Oldcastle Precast Inc., Nampa, ID - Cascade Concrete Products, Scappoose, OR - Advanced Precast Products, Redmond, OR <p>If from a manufacturer other than those listed above, contact the Structural Materials Engineer (503-986-6628) for acceptance information prior to manhole placement.</p>	
		Cast-In-Place Units (Steel Reinforcement)	See 00530 in this Guide.						
		Joint Material	02440.40 02440.50 02440.60		Q		F		
		Metal Frames, Grates, Covers, and Ladders	02450.30		Q,O		F	"Q" is from manufacturer.	
00475	Drain Wells	Well Casing	00475.10		Q,O		F	"Q" is from steel manufacturer.	
00480	Drainage Curbs	Preformed Expansion Joint Filler	02440.10				F,QPL		
		Epoxy Bonding Agent	02070.10				F,QPL		
		Curing Materials	00440.40 (e) 02050				F,QPL		
00490	Work on Existing Sewers and Structures	New Materials	See 00470 in this Guide						
		Salvaged Materials	00490.10				F		

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00512	Drilled Shafts	Permanent Shaft Casing	00512.13 00512.40		Q,E,O		F	"Q" is from the manufacturer.
		Steel Reinforcement	See 00530 in this Guide.					
		CSL Tube	00512.15		Q,O		F	"Q" is from the manufacturer.
		CSL Cement Grout – Field Mixed	00512.18 02010.10				F,QPL	Use cement from the QPL.
		CSL Cement Grout – From QPL	00512.18				F,QPL	Non-Epoxy or Tendon Grout
		Drilling Slurry	00512.14(a) 00512.14(b) 00512.14(c)				F,QPL	QPL is for Synthetic Slurry
00520	Driven Piles	Steel Piling	02520.10		T,O	L	F	"T" is from steel manufacturer. Include the pile markings on FIR; heat No., lot No., AASHTO/ASTM designation, grade, brand, quantity and submit copies to Salem Central Materials Lab for review and written Lab report. *If no "T", check with Structural Materials Engineer (503-986-6628) for testing requirements.
		Reinforced Pile Tips	02520.10(e)		T,O		F,QPL	"QPL" is for H-Pile Tips.
		Timber Piling and Preservative Treatment	02120.20 02190		Q		F	
		Timber Piling Straps	02120.30		Q,O		F	
		Prestressed Concrete Piles	See 00550 in this Guide.					
00530	Steel Reinforcement for Concrete	Bar Reinforcement (From Approved Manufacturer on QPL)	02510.10		O		F,QPL	"F" will include the visual verification of the steel manufacturer's identification markings rolled into the bar.
		Bar Reinforcement (Not From Approved Manufacturer on QPL)	02510.10	T,O		L	F	"T" is from steel manufacturer. "L" - Field obtains for each manufacturer, one 4 ft sample of the size representing the greatest quantity needed for the project. Submit samples to Salem Central Materials Lab. Include manufacturer's name and heat number.
		Epoxy Coated Bar Reinforcement (From Approved Manufacturer on QPL)	02510.11(a)		O		F,QPL	Bar reinforcement is accepted as above either from an Approved Manufacturer or from a non- Approved Manufacturer. "O" is for coating process and reinforcement.
		Headed Bar Reinforcement	00530.35 00530.47 02510.25		Q,O	L	F,QPL	"Q" is from the headed bar manufacturer. "L" - Field submits three (3) 4-foot samples for installer qualification (00530.35) to Salem Central Materials Lab. Submit 1 quality control sample per 100 headed bars up to 500, 1 per 500 thereafter (530.47(b)(4)). Installer qualification qualifies first 100 headed bar quality control requirement.

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		Mechanical Splices – Lapped Splices, Threaded Sleeve Couplers and Butt Splices	00530.30 00530.42 02510.20		Q,O	L	F,QPL	"Q" is from the splice manufacturer. "L" - Field submits three (3) 8-foot samples for installer qualification (00530.30) to Salem Central Materials Lab. Submit 1 quality control sample per 100 splices up to 500, 1 per 500 thereafter (00530.42(c)(2)(d)). Installer qualification qualifies first 100 splices quality control requirement.
		Welded Wire Reinforcement	02510.40		Q,O	L	F	"Q" is from steel manufacturer. "L" - Field submits to Salem Central Materials Lab minimum of one full width of sheet by 3-foot sample for each size of reinforcement per project. If this is not possible, contact Materials Section Physical Testing Group @ 503-986-3089 for sampling requirements.
		Dowels	02510.50		Q,O		F	"Q" is from steel manufacturer.
		Wire Reinforcement	02510.60		Q,O	L	F	"Q" is from steel manufacturer. "L" - Field submits to Salem Central Materials Lab minimum of one 6-foot sample (cut in half, bound, and tagged) per size, per project.
00535	Resin Bonded Anchor System	High Strength Anchor Bolts	00535.10 02560.30(b) 02560.40 02560.60(b)	T	T,Q,O	L	F	"T" is from the steel manufacturer. "L" is from Salem Central Materials Lab for check testing. "Q" is from galvanizer. Prior to installation contact Structures Materials Engineer (503)986-6628.
		Carbon Steel Anchor Bolts	00535.10 02560.30(a) 02560.40		T,Q,O		F	"T" is from the steel manufacturer. Prior to installation contact Structures Materials Engineer (503)986-6628. "Q" is from galvanizer.
		Reinforcement	See 00530 in this Guide.					
		Resin –Polyester, Vinyl Ester or Epoxy	00535.10		Q		F,QPL	See Special Provisions and QPL" remarks" for additional requirements and type of resin to use.
00536	Internal Shear Anchors	Crack Injection Epoxy Resin	00536.10 00538.10				F,QPL	
		Threaded Shear Anchors	00536.11 02560.60(b)	T	T,O	L	F	ASTM A 449 or ASTM A 193 (Grade B7). "L" is from Salem Central Materials Lab for check testing.
		Concrete Repair	00536.12 02015				F,QPL	Must be compatible with epoxy resin.
00538	Crack Injecting Existing Bridges	Crack Injection Epoxy Resin	00538.10				F,QPL	
		PCC Repair Material	00538.12 02015				F,QPL	
00539	Concrete and Crack Sealing	Concrete and Crack Sealers	00539.10 02060				F,QPL	See Special Provisions for modulus requirement.
		PCC Repair Material	00539.10 02015				F,QPL	Must be compatible with sealer.

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00540	Structural Concrete	Concrete and Crack Sealers	See section 00539 in this Guide.						
		Concrete Coating	00540.10 02210.10 02210.30				F,QPL	Field includes information from 02210.10.	
00545	Reinforced Concrete Bridge End Panels	Reinforcement and Dowels	See 00530 in this Guide.						
		Pipe Under End Panels	00545.10		Q,O		F	"Q" is markings on pipe and galvanizing certification when applicable. Field will include pipe markings on FIR; manufacturer's name, size, AASHTO/ASTM designation and coating type.	
		Expansion Joints	See 00585 in this Guide.						
00550	Precast Prestressed Concrete Members	Precast Unit	00550	T,Q,O		L	F	"T" is from steel manufacturer. "L" - covers strand, hardware, reinforcing, concrete and aggregate in precast concrete units. Structure Services will perform appropriate inspection and testing for all materials and fabrication.	
		Backer Rod Concrete Coating Epoxy and Non-Epoxy Grout Epoxy Coating Keyway Grout PCC Repair Material Poured Joint Filler	02440.14 02210 02080 02510.11 02080.30 02015 02440.30				F,QPL		
		High Strength Tie Rods, Nuts and Washers	00550.50 02560.20 02560.30 02560.60(b)	T	T,Q,O	L	F	"T" is from manufacturer. "Q" is from the galvanizer. "L" - Sample and test according to 02560.60(b) – submit to Salem Central Materials Lab for testing.	
		Seven Wire Strand – Bright Wire and Epoxy Coated	02515.10 02515.40		T,O	L	F	"T" is from strand manufacturer. "L" - Field will submit to Salem Central Materials Lab for testing, prior to use, one 8-foot sample from each reel, coil, or pack.	
00555	Post-Tensioning	High Tensile Strength Wire	02515.20		T,O	L	F	"T" is from wire manufacturer. "L" - Field will submit to Salem Central Materials Lab for testing, prior to use, minimum of one 8-foot sample from each 10 coils.	
		High Strength Steel Bars	02515.30		T,O	L	F	"T" is from manufacturer. "L" - Field will submit to Salem Central Materials Lab for testing, prior to use, one 4-foot bar from each heat number.	
		Anchorage – Proprietary Devices	00555.03 02530 02540		T,O		F	"T" is from anchorage assembly manufacturer.	
		Anchorage – Non-Proprietary Devices, Fabricated Steel Items	See 00560 in this Guide.						Design according to 00555.03.

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				LAB	PM			
		Tendon Duct	02515.50		Q,O		F	"Q" is from galvanizer and duct manufacturer.
		Tendon Grout	00555.12 00555.13 02080.50		Q		F,QPL	"Q" is results from trial batch.
00560	Structural Steel Bridges	Fabricated Steel Items	02530	T,O	E,Q	L	F	"T" is from steel manufacturer. Structure Services will perform appropriate inspection and testing for all materials and fabrication. PM is responsible for notification of fabrication and for providing shop drawings to the ODOT Milwaukie Materials Lab @ 971-673-7002. "Q" is fabricator certification under AISC as required by section 0560.30
		Preparing and Coating Metal Structures	See 00594 in this Guide.					
		High Strength Anchor Bolts, Nuts and Washers	02560.30(b-d) 02560.40 02560.60(b)	T	T,Q,O	L	F	"T" is from manufacturer. "Q" is from galvanizer. "L" - Sample and test according to 02560.60(b) – submit by Lot to Salem Central Materials Lab for testing.
		Carbon Steel Anchor Bolts/Rods, Tie Rods, Nuts and Washers	02560.30(a,c,d) 02560.40		T,Q,O		F	"T" is from manufacturer. "Q" is from galvanizer.
		High-Strength Bolts, Nuts and Washers	02560.20 02560.40 02560.60	T	T,Q,O,RC	L	F,RC	"T" is from manufacturer. "Q" is from galvanizer. "L" - Sample and test according to 02560.60(b). Submit by Lot to Salem Central Materials Lab for testing. "RC" RoCap testing is required to be furnished by the high strength bolt supplier and repeated in the field at the time of installation, according to 02560.60(a). Prior to installation contact Structure Materials Engineer 503-986-6628.
00570	Timber Structures	Timber/Lumber and Preservative Treatment	02130 02190	Q		L	F	Structure Services will perform appropriate inspection and testing for all materials and fabrication.
		Glued Laminated Timber and Preservative Treatment	02140 02190	T		L	F	Structure Services will perform appropriate inspection and testing for all materials and fabrication.
		Decking	00570.44 02130		Q		F	"Q" can either be a grade-stamp or a mill certification.
		Lumber/Timber Connectors	02150		T,Q,O		F	"Q" is from galvanizer and manufacturer.
		Coating Metal Parts	00570.11 00594.11 02530.70		Q		F,QPL	"Q" is from galvanizer or coating manufacturer and fabricator. "QPL" is for coating material.
		Coating Materials for Timber	02210.20 02210.21		Q		F,QPL	"Q" is package labeling information per 02210.10(b).
		Field Treatment	02190.30				F,QPL	Field treat damaged or drilled surfaces.

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00581	Bridge Drainage System	Steel Pipe	00581.10		Q,O		F	"Q" is from galvanizer and pipe manufacturer.
		Fabricated Steel Items	02530.20		Q,O		F	"Q" is from galvanizer and fabricator.
		Connectors and Fasteners	02560		T,Q,O		F	"Q" is from galvanizer and connector manufacturer. "T" is for high strength applications.
00582	Bridge Bearings	Composite Bearings	00582.20 02570		T,Q,O,E	L	F,QPL	"T" is from pad manufacturer. "Q" by independent lab. "E" when specified. "L" is inspection report by Structure Services.
		Elastomeric Bearings - Laminated	02571	T,O		L	F	Structure Services will perform appropriate inspection or testing for all materials and fabrication. Contact the ODOT Milwaukie Materials Lab @ 971-673-7002 to coordinate inspection.
		Elastomeric Bearings – Plain, Non-Laminated	02571				F,QPL	
		Fabricated Steel Items - Rockers and Hangers (Bearings)	02570	T,O		L	F	Structure Services will perform appropriate inspection and testing for all materials and fabrication. Contact the ODOT Milwaukie Materials Lab @ 971-673-7002 to coordinate inspection.
00583	Electrical Conduit in Structures	Metal Conduit	02920.10		Q,O		F	"Q" is from galvanizer and manufacturer.
		Non-Metallic Conduit	02920.11		Q		F	"Q" is from manufacturer.
00584	Elastomeric Concrete Nosing	Nosing Material	00584.10				F,QPL	Field includes information from 00584.10.
00585	Expansion Joints	Asphaltic Plug Seals	00585.10 02440.19		Q,O		F,QPL	"Q" is from galvanizer.
		Preformed Compression Seals	00585.10 00585.46 02440.20		Q		F, QPL	
		Preformed Strip Seals	00585.10 00585.47 02440.20		T,Q,O		F, QPL	
		Backer Rod	02440.14				F,QPL	
		Hot Poured Joint Filler	02440.30		Q		F,QPL	
		Lubricant/Adhesive	02440.15		Q		F	
		Poured Joint Sealant	02440.11				F,QPL	
		Preformed Joint Filler	02440.10		Q		F,QPL	
		Structural Steel	See 00560 in this Guide.					

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00586	Expansion Joints - Modular	Modular Bridge Joint System (MBJS)	00586 00586.21		T,E,M		F	Acceptable joint manufacturer listed in Special Provisions. "T" and "F" will include individual components listed below. Additional "T" required for completed system.	
		- Preformed Joint Seals	02440.20		Q				
		- Lubricant/Adhesive	02440.15		Q				
		- Polytetrafluoroethylene (PTFE)	02570.10		T,Q				
		- Stainless Steel Sliding Surfaces	02570.10		T,Q,O				
		- Structural Steel	02530.20		T,Q,O				
00587	Bridge Rails (Including Pedestrian Rail)	Cast Steel Posts	02810.40		Q,O		F	"Q" is from fabricator and galvanizer.	
		Concrete Coating	02210.10 02210.30				F,QPL	Field includes information from 02210.10. Use "Latex Emulsion Paint" from QPL.	
		Grout	02080.30				F,QPL	Use "Keyway Grout" from QPL.	
		Reinforcement	See 00530 in this Guide						
		Structural Steel	See 00560 in this Guide.						
		Structural Steel Tubing	02810.20	Q,O	E	L	F	Structure Services will perform appropriate inspection and testing for all materials and fabrication. PM is responsible for notification of fabrication and for providing shop drawings to the ODOT Milwaukie Materials Lab @ 971-673-7002.	
		Thrie Beam Rail	02810.50		Q,O		F	"Q" is visual verification of AASHTO M 180, Class A, Type II stamp must be recorded on FIR. Guardrail W/O stamp will be rejected.	
		Tube (Steel Pipe)	02810.30		Q,O		F		

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00588	Precast Historic Ornamental Bridge Rail Members	Precast Unit	00588	T,Q,O		L	F	"T" is from steel manufacturer. "L" - covers strand, hardware, reinforcing, concrete and aggregate in precast concrete units. Structure Services will perform appropriate inspection and testing for all materials and fabrication.
		Backer Rod Concrete Coating Epoxy and Non-Epoxy Grout Epoxy Coating Keyway Grout PCC Repair Material Poured Joint Filler	02440.14 02210 02080 02510.11 02080.30 02015 02440.30				F,QPL	
		High Strength Tie Rods, Nuts and Washers	00550.50 02560.20 02560.30 02560.60(b)	T	T,Q,O	L	F	"T" is from manufacturer. "Q" is from the galvanizer. "L" - Sample and test according to 02560.60(b) – submit to Salem Central Materials Lab for testing.
00591	Spray Waterproofing Membrane	Warranted Spray Waterproofing Membrane System	00591.10		W,P,M		F,QPL	Recommended Warranty statement is located on QPL Product Review website under the section 00591 @ http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/qpl/docs/membrane_waterproofing_spray.pdf
00593	Powder Coating Metal Structures	Powder Coating	00593.10		Q		F	
		Structural Steel Caulking	See Section 00594 in this Guide.					
00594	Preparing and Coating Metal Structures	Note: A maximum of 20 gallons of each type of paint may be accepted as Small Quantity per project. Requires a "T" and a "Q" from paint manufacturer and an FIR.						
		Coating Materials	00594.11	T,Q	W	L	F,QPL	"L" - Field will submit to Salem Central Materials Lab for testing.
		Structural Steel Caulking	00594.12				F,QPL	
00595	Reinforced Concrete Box Culverts	Cast-in-Place	See 00530 in this Guide for reinforcement and 00540 for concrete coating.					
		Precast Unit	00595.11	T,O		L	F	"T" is from steel manufacturer. Structure Services will perform appropriate inspection and testing for all materials and fabrication.
		Joint Seals	02440.40		Q		F	"Q" is from joint seal manufacturer.

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SP0A596	Mechanically Stabilized Earth Retaining Walls	Proprietary MSE Retaining Walls	SP0A596.01 SP0A596.04 SP0A596.31		E,O,M,P		F	The project Special Provisions will list the pre- approved proprietary systems available for use. "E" includes working drawings per 00150.35, manufacturer's field construction manual per 00150.37, and design calculations. Requires Engineers written approval prior to beginning wall construction. "P" Mfg field rep qualifications per SP0A596.31. "M" is final field observation report and final stamped report from Mfg field rep to Engineer per SP0A596.31.	
		Nonproprietary MSE Retaining Walls	SP0A596.05		E,O			"E" includes working drawings per 00150.35 submitted 30 days before construction. Requires Engineer's written approval before beginning wall construction. Field verify elevations before preparing working drawings.	
		Dry Cast Concrete Modular Block Facing	SP0A596.12(b)		T,Q,O			F	"T" and "Q" are from the manufacturer and must show conformance to SP0A596.12(b) test requirements and tolerances. The maximum number of blocks per subplot is 2000, Blocks must have been tested by subplot.
		Wet Cast Concrete Modular Block Facing	SP0A596.12(c)		T,Q,O			F	"T" and "Q" are from the manufacturer and must show conformance to SP0A596.12(c) test requirements and tolerances. The maximum number of blocks per subplot is 20 blocks or one day's production, whichever is less. Blocks must have been tested by subplot.
		Precast Concrete Panel Facing	SP0A596.12(e)		O			F	Listed below are the ODOT approved manufacturers: - Oldcastle Precast, Wilsonville, OR - Freedom Precast, Salem, OR If panels are from a manufacturer other than those listed above, contact the Structural Materials Engineer (503-986-6628) for acceptance information prior to barrier placement.
		Steel Reinforcement for Concrete	See Section 00530 in this Guide.						
		Steel Components	SP0A596.13(b) 00560.00	All steel components must meet the requirements of Sections 00560 and the following. Check Contract Documents.					
		- Soil Reinforcing Strips	SP0A596.13(b) (1)		Q,O			F	"Q" is from fabricator and galvanizer.
		- Soil Reinforcing Mesh - Welded Wire (Shop Fabricated)	SP0A596.13(b) (2)		Q,O	L		F	"L" - Field submits to Salem Central Materials Lab minimum of one full width of sheet by 3-foot long sample per size per project. If this is not possible, contact Construction Section's Physical Testing Crew for sampling requirements (503- 986-3089). "Q" is from fabricator and galvanizer.

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		- Soil Reinforcing Mesh – Twisted Wire Mesh	SP0A596.13(b) (2) 02340		Q,O		F	Refer to 002340.12 for wire dimension openings. "Q" is from fabricator and galvanizer.
		- Tie Strips	SP0A596.13(b) (3)		Q,O		F	"Q" is from fabricator and galvanizer.
		- High Strength Bolts, Nuts and Washers	SP0A596.13(b) (4) 02560.20		T,Q,O	L	F	"T" is from manufacturer. "Q" is from galvanizer. "L" - Sample and test according to 02560.60(b). Submit by Lot to Salem Central Materials Lab for testing.
		- Connector Pins and Mat Bars	SP0A596.13(b) (5)		Q,O		F	"Q" is from fabricator and galvanizer.
		Gabion Baskets	SP0A596.13(c) 02340		Q,O		F	"Q" is from fabricator and galvanizer.
		Geosynthetics	SP0A596.14 02320		Q		F	
		- Geotextile Soil Reinforcement	SP0A596.14(f) (1) 02320		T,Q		F	"Q" or "T" depending on level specified in contract.
		- Geogrid Soil Reinforcement	SP0A596.14(f) (2) 02320.10(a)(2)		T		F,QPL	Geogrid shall only be Type 1 MSEW Geogrid.
		Elastomeric Bearing Pads	SP0A596.15		T	L	F	Structure Services will perform appropriate inspection or testing during fabrication. PM is responsible to contact the ODOT Milwaukie Materials Lab @ 971-673-7002 to coordinate inspection at the lab that the contractor has chosen to conduct the testing.
SP0B596	Prefabricated Modular Retaining Walls	Proprietary Retaining Walls	SP0B596.01 SP0B596.04 SP0B596.10 SP0B596.31		E,O,M, P		F	The project Special Provisions will list the pre- approved proprietary systems available for use. "E" includes working drawings per 00150.35, manufacturer's field construction manual per 00150.37, and design calculations. Requires Engineers written approval prior to beginning wall construction. "P" Mfg field rep qualifications per SP0B596.31. "M" is the final field observation report and final stamped report from Mfg field rep to Engineer per 0B596.31.
		Nonproprietary Retaining Wall	SP0B596.05		E,O		F	"E" is the working drawings to 00150.35 submitted 30 days before construction. - Engineer's written approval is required before beginning wall construction.

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		Precast Concrete Bin Units	SP0B596.12(b)		T,Q,O		F	"T" is from the manufacturer and must show conformance to SP0B596.12(b) test requirements. The maximum number of bins per subplot is 10 or one day's production, whichever is less. Bins must have been tested by subplot. "Q" is from manufacturer for supporting and curing, finish and tolerances.	
		Dry Cast Concrete Blocks	SP0B596.12(c)		T,Q,O		F	"T" and "Q" are from the manufacturer and must show conformance to SP0B596.12(c) test requirements and tolerances. The maximum number of blocks per subplot is 2000, Blocks must have been tested by subplot.	
		Wet Cast Concrete Blocks	SP0B596.12(d)		T,Q,O	L	F	"T" and "Q" are from the manufacturer and must show conformance to SP0B596.12(d) test requirements and tolerances. The maximum number of blocks per subplot is 20 blocks or one day's production, whichever is less. Blocks must have been tested by subplot. "L" is inspection report from Structure Services for wet cast concrete block gravity wall production.	
		Precast Concrete Crib Walls	SP0B596.12(e)		T,Q,O		F	"T" is from the manufacturer and must show conformance to SP0B596.12(e) test requirements. The maximum number of crib walls per subplot is 100 or one day's production, whichever is less. Bins must have been tested by subplot. "Q" is from manufacturer for color, finish and tolerances.	
		Steel Reinforcement for Concrete	See Section 00530 in this Guide.						
		Metal Bin Gravity Walls – Galvanized Steel Sheets and Hardware	SP0B596.13(b) 02350		Q,O		F	"Q" is from fabricator and galvanizer.	
		Gabion Baskets	SP0B596.13(c) 02340		Q,O		F	"Q" is from fabricator and galvanizer.	
		Geosynthetics	SP0B596.14 02320		Q		F		
		SPOC596	Cast-In-Place Concrete Retaining Walls	Proprietary and Non-Proprietary	SP0C596.05		E		F
Steel Reinforcement for Concrete	See 00530 in this Guide.								
Geosynthetics	SP0C596.14 02320				Q		F		
Piles	See 00520 in this Guide.								

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00597	Sound Walls	Concrete Block Sound walls	00597.11					
		- Concrete Blocks and Caps	00597.11(a-b)		T,Q		F	
		- Reinforcement	See 00530 in this Guide for reinforcement.					
		- Preformed Expansion Joint Filler	00597.11(f) 02440.10				F,QPL	
		- Fillers, Sealers, and Damp Proofing	00597.11(g)				F,QPL	
		Precast Concrete Panel Sound Walls	00597.12		O		F	Listed below are the ODOT approved manufacturers: - Oldcastle, Wilsonville, OR - EnCon Northwest, LLC Camas, WA - Freedom Precast, Salem, OR If soundwalls are from a manufacturer other than those listed above , contact the Structural Materials Engineer (503-986-6628) for acceptance information prior to soundwall placement.
		Concrete Panel Lock Fence Sound Walls	00597.13		T,Q		F	
00599	Concrete Slope Paving	Grout	00599.10 02080.40		Q		F	
		Reinforcement	See 00530 in this Guide for reinforcement					
00746	Crack Sealing Flexible Pavements	Sealants – Hot Poured	02440.30				F,QPL	Meet the requirements of AASHTO M324, Type II (ASTM D6690 Type II).
00748	Asphalt Concrete Pavement Repair	Subgrade Geotextile	02320.10(c)(2)		Q		F	
		Subgrade Geogrid	02320.10(a)(2)				F,QPL	

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00754	Plain Concrete Pavement Repair	Bar Reinforcement Concrete Materials Bonding Agents Grouts Joint Fillers	See 00755 in this Guide					
		Resin Bonded Anchors	See 00535 in this Guide					
		Curing – Liquid Compound	02050.10			L	F,QPL	"L" - Submit one quart samples of each lot to the Salem Central Materials Lab for testing.
		Curing – Polyethylene Film	02050.20		Q		F	Use clear or white polyethylene film.
		Curing – Insulated Blankets	02050.30				F,QPL	
		Portland Cement Concrete Repair	00754.17 02015.20				F,QPL	Used for spall repair, rapid or very rapid setting material. No products containing magnesium phosphate.
00755	Continuously Reinforced Concrete Pavement	Bar Reinforcement	See 00530 in this Guide.					
		Wire Reinforcement	02510.60		Q,O		F	"Q" is from steel manufacturer. Requirement is exclusive to transverse bar assembly, see standard detail.
		Curing - Liquid Compounds	02050.10			L	F,QPL	"L" - Submit one quart samples of each lot to the Salem Central Materials Lab for testing.
		Curing - Polyethylene Films	02050.20		Q		F	Use clear or white polyethylene film.
		Bonding Agents	02070.10 02070.20				F,QPL	
		Grout	02080.10 02080.20				F,QPL	
		Poured Joint Fillers	02440.30				F,QPL	Meet the requirements of AASHTO M324, Type II (ASTM D6690 Type II).
		Poured Joint Sealant	02440.11				F,QPL	
		Preformed Expansion Joint Filler	02440.10				F,QPL	Meet the requirements of AASHTO M153 or AASHTO M213.
00756	Plain Concrete Pavement	Bar Reinforcement Concrete Materials Curing Materials Bonding Agents Grouts Joint Fillers	See 00755 in this Guide.					

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00758	Reinforced Concrete Pavement Repair	Bar Reinforcement Concrete Materials Bonding Agents Grouts Joint Fillers	See 00755 in this Guide.					
		Curing Materials Portland Cement Concrete Repair	See 00754 in this Guide.					
00759	Miscellaneous PCC Structures	Bar Reinforcement Bonding Agents Preformed Expansion Joint Filler	See 00755 in this Guide.					
		Dowels	02510.50		Q,O		F	"Q" is from steel manufacturer.
		Curing Materials	02050				F,QPL	No testing required when used on miscellaneous PCC structures.
		Metal Handrail	02830		Q,O		F	
		Welded Wire Reinforcement	02510.40		Q,O		F	
		Truncated Dome Warning Surfaces	00759.12				F,QPL	
00810	Metal Guardrail	Guardrail Anchor Hardware	02820.40		Q,O	L	F	"L"- Project Manager will submit one cable assembly per project or one cable per manufacturer to the Salem Central Materials Lab for testing. Stock testing lab reports are good for 1 year. "Q" is from galvanizer.
		Guardrail Hardware Metal Beam Rail	02820.10 02820.30		Q,O		F	"Q" is visual verification of AASHTO M 180, Class A, Type II stamp must be recorded on FIR. Guardrail W/O stamp will be rejected.
		Metal Posts	02820.20		T,Q,O		F	"T" is from steel manufacturer. "Q" is from galvanizer. Note: Metal blocks are not permitted (exception BR203).

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		Wood Posts and Blocks	02110.10 02110.20 02190				F	Listed below are the current ODOT approved manufacturers that treat wood posts and blocks: <ul style="list-style-type: none"> - All Weather Wood, LLC Plant #580 - Conrad Forest Products, North Bend - Exterior Wood, Washougal, WA - Hoover Treated Wood Products, Winston, OR <p>If posts and blocks are proposed from a source other than those listed above or a source not on the Structures Services website, contact Structure Materials Engineer, 503-986-6628.</p> <p>Please visit the Structure Services website for http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/pages/wood_treating_companies.aspx</p>
		Recycled Plastic Blocks	02110.20		Q		F	See Contract Documents or use blocks from QPL.
		Guardrail Terminals	00810.10		O		F, QPL	
		Salvaged Materials	00810.15				F	
00811	Cable Barrier	Cable Barrier	00811.10		T,E, O		F,QPL	"E" provide Tension Measuring Device and subsequent training. "T" is tension log per Manufacturer's recommendation.
		Cable Barrier Terminals & Connections	00811.11		O		F,QPL	
00812	Adjusting Guardrail	Replace damaged materials	See 00810 in this Guide.					
		Repair Galvanizing	00812.40		Q		F	
		Wood Preservative	00812.41(a)				F,QPL	
00815	Bollards	Reflective Sheeting	00815.10 02910.2				F,QPL	
		Posts, Sleeves, Plates, Shapes, Fasteners and Hardware	00815.11 00815.12		Q,O		F	
		Galvanizing	00815.13		Q		F	
		PVC Pipe	00815.14		Q		F	"Q" is markings on pipe. Field will include pipe markings on FIR; manufacturer's name and/or trademark, size, and ASTM designation.

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				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB	BY FIELD	
				LAB	PM			
00820	Concrete Barrier (Cast in Place)	Concrete Coating	02210.30		Q		F,QPL	"Q" is package labeling information per 02210.10(b).
		Bar Reinforcement	See 00530 in this Guide.					
		Hardware Loop Bars C-Shape Connectors	00820.11		Q,O		F	"Q" is from hardware fabricator and galvanizer.
		Portland Cement Grout	02080.40		Q		F	
		Preformed Joint Filler	02440.10				F,QPL	
00820	Concrete Barrier (Precast)	Barrier	00820.11		O		F	Listed below are the ODOT approved manufacturers: <ul style="list-style-type: none"> - Knife River, Harrisburg, OR - Oldcastle, Wilsonville, OR - EnCon Northwest, LLC, Camas, WA - Oldcastle Precast, Inc. , Nampa, ID - Freedom Precast, Salem, OR <p>If barrier are from a manufacturer other than those listed above, contact the Structural Materials Engineer (503-986-6628) for acceptance information prior to barrier placement.</p>
		Concrete Coating	02210.30		Q		F,QPL	"Q" is package labeling information per 02210.10(b).
		Portland Cement Grout	02080.40		Q		F	
		Hardware	00820.11(b)		Q,O		F	"Q" is from hardware fabricator and galvanizer.
		Reused Precast Barrier – New Temporary from Project Reused as Permanent on Project	00820.12(a)		O		F	"O" is for reinforcement. "F" details barrier condition per 00820.12(a).
		Reused Precast Barrier – From Previous Project (Reused as Permanent)	00820.12(b)		O		F	"O" is for reinforcement. "F" - field will include manufacturer, prior project information/documentation, and barrier condition per 00820.12(b)
00822	Glare Shields	Glare Shields	00822.10				F,QPL	
		Hardware	00822.10		Q,O		F	"Q" is from fabricator and galvanizer.
00830	Impact Attenuators	Impact Attenuator System	00830		O		F,QPL	

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00840	Delineators and Milepost Marker Posts	Barrier Markers	00840.10				F,QPL		
		Delineator Reflective Sheeting	00840.10				F,QPL		
		Flexible Delineators	00840.10		O		F,QPL	"O" is for drive anchor.	
		Galvanized Milepost Marker Posts	00840.11		Q,O		F	"Q" is from fabricator and galvanizer.	
00842	Facility Identification Markers	Type S1 Markers	00840.10 00842.10(a)(1)				F,QPL	Type 2 flexible delineator (green or red).	
		Type S2 Markers	00840.11 00842.10(a)(2)		Q,O		F	Galvanized Type 1U post with white aluminum marker.	
		Type S3 Markers	00842.10(a)(3) 02450.30		Q,O		F	Manhole cover	
		Type 1 Drainage Markers	00842.10(b)(1) 00850.10				F,QPL	See 00867.45 for Type B.	
		Type 2 Drainage Markers	00840.11 00842.10(b)(2)		Q,O		F	Galvanized Type 1U post with white aluminum marker.	
		Bridge Facility Markers:							
		Markers	00842.10(c) 02910		Q		F	Aluminum sheet.	
		Galvanized Support Posts	00840.11 00842.10(c)		Q,O		F	"Q" is from fabricator and galvanizer.	
		SS Mechanical Anchors	00842.10(c)		O		F,QPL	QPL Section 00535.	
00850	Pavement Markings	- Adhesive for Pavement Markers - High Performance Pavement Markings - Methyl Methacrylate - Pavement Markers - Marking Paint - Marking Tape - Thermoplastic	00850.10 00850.30 00850.31 00850.75		W,P,M		F,QPL	"W" - Warranty on final product is required only for those Sections referencing 00850.75. "P" - Certified installers required only for those Sections referencing 00850.31. "M" - Manufacturer's representative required only for those Sections referencing 00850.30.	
		Reflective Elements	00850.10 00850.47(c)		T		F,QPL	QPL is for paint application otherwise follow manufacturer's recommendation. "T" is for non-paint applications. Test according to ODOT TM777.	
		Bituminous Adhesive – Permanent Applications	00850.11			L	F,QPL	"L" –Project Manager submit a brick sample of flexible bituminous adhesive to Salem Central Materials Lab. Must be tested by Lot #.	

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00855	Pavement Markers	Pavement Markers Adhesive	See 00850 in this Guide.					
Note: A maximum amount of adhesive for 200 pavement markers may be accepted as Small Quantity.								
00856	Surface Mounted Tubular Markers	Tubular Markers	00856.10		O		F,QPL	
00860	Longitudinal Pavement Markings – Paint	Paint and Reflective Elements	See 00850 in this Guide.					
00865	Longitudinal Pavement Markings – Durable	Methyl Methacrylate Thermoplastic Reflective elements	See 00850 in this Guide.					
00866	Longitudinal Pavement Markings – High Performance	Modified Urethane Hi-Build Paint Polyurea Reflective Elements	See 00850 in this Guide.					
00867	Transverse Pavement Markings – Legends and Bars	Type A through Type D Reflective Elements	See 00850 in this Guide.				See 00860.75 for additional Warranty requirements.	
Note: A maximum of 3 legends and or bars may be accepted as Small Quantity without reflectivity testing, with an FIR as long as the marking material is on the QPL and the reflective elements are per the manufacturer.								
00905	Removal and Reinstallation of Existing Signs	Permanent Supports	See 00910, 00920, and 00930 in this Guide.					
		Hardware	02910.40		Q,O		F	"F" needs to address if hardware is new or existing. "Q" is from hardware manufacturer and galvanizer when new hardware is used for reinstall. "O" is only required if hardware is new.
00910	Wood Sign Posts	Posts	02110.40		Q		F	"Q" is for the grading requirements.
		Preservative Treatment - Manufacture	02190.10		T		F	
		Preservative Treatment - Field	02190.30				F,QPL	

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00920	Sign Support Footings	Reinforcement	See 00530 in this Guide.					
		Conduit	02920.10 02920.11 02920.12		Q,O		F	"Q" is from conduit manufacturer.
		High Strength Anchor Bolts/Rods, Nuts, and Washers	02560.30(b) 02560.30(c) 02560.30(d) 02560.40	T	T,Q,O	L	F	"T" is from manufacturer. "Q" is from the galvanizer. "L" - Salem Central Materials Lab will perform appropriate testing for all materials and fabrication. Sample and test according to 02560.60(b).
		Carbon Steel Anchor Bolts/Rods and Tie Rods	02560.30(a) 02560.40		T,Q,O		F	"T" is from manufacturer. "Q" is from fabricator and galvanizer.
		Bolts, Nuts and Washers – Carbon Steel and High Strength	02560.10 02560.20		T,Q,O		F	"T" is from the manufacturer. "Q" is from fabricator and galvanizer.
00921	Major Sign Support Drilled Shaft	Reinforcement	See 00530 in this Guide					
		Crosshole Sonic Log Access Tubes	00921.15		T,Q,O		F	"T" is contractor's Crosshole Sonic Log test reports (00921.48(b)).
		Crosshole Sonic Log Cement Grout	00921.18 02010				F,QPL	
00930A	Metal Sign Supports - Minor	Breakaway Sign Supports: - Multi-Post - Triangular Base - Pipe	00930		Q,O		F	Refer to Standard Traffic Drawings.
		Perforated Steel Square Tube Slip Base Sign Support	00930		O		F,QPL	Refer to Standard Traffic Drawings.
		Other Sign Supports and Mounts	00930		Q,O		F	
		High Strength Bolts, Nuts and Washers	02530.10 02560		T,Q,O		F	"T" is from the manufacturer. "Q" is from galvanizer.

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00930B	Metal Sign Supports - Major	Working Drawings	00930.02		E		"E" required for structural metal work. PM is responsible for notification of fabrication and for providing shop drawings to the ODOT Milwaukie Materials Lab @ 971-673-7002.	
		Truss Sign Bridges Monotube Sign Bridges Butterfly Sign Structures Monotube Cantilever Sign Structures	00930	T,O,Q		L	F	"T" is from the steel manufacturer. Structure Services will perform appropriate inspection for all materials and fabrication. The PM office contacts the ODOT Milwaukie Materials Lab @ 971-673-7002 to coordinate inspection of fabrication and required testing. "Q" is identifying tag on overhead and butterfly sign support structures only. Field will include information on FIR.
		High-Strength Bolts, Nuts, Washers, and Direct Tension Indicators	02560.30	T,Q,O,RC		L	F	"T" is from the manufacturer. "Q" is from the galvanizer. "L" - Sample and test according to 02560.60(b). Submit by Lot to Salem Central Materials Lab for testing. "RC" RoCap testing is required to be furnished by the high strength bolt supplier and repeated in the field at the time of installation, according to 02560.60(a). Structure Services will perform appropriate inspection for all materials and fabrication. Contact the ODOT Milwaukie Materials Lab @ 971-673-7002 to coordinate.
00940	Signs	Finished Signs – with ODOT Sticker	00940.46 02910		Q,W		F	"Q" is ODOT inspection sticker. Includes everything except hardware and posts. Field will include information on FIR. "W" is for Type III, IV, and IX sheeting only.
		Finished Signs – without ODOT Sticker	If signs do not have an ODOT Inspection Sticker, contact ODOT Milwaukie Materials Lab @ 971-673-7002 for inspection process and ODOT Sticker.					
		Hardware	02910.40		Q,O		F	"Q" is from hardware manufacturer and galvanizer.
00941	Sign Covers	Permanent Signs	00941.10				F,QPL	Provide from the QPL or as approved by the sign sheeting manufacturer. Do not use plywood.

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				LAB	PM			
00960	Common Provisions for Electrical Systems	Equipment List and Drawings	00960.02 00960.30 02920.00		E,P		BG	See Contract Documents. "E"-The Traffic Section's Signal Standards Group has two lists to simplify Contractor submittals: "Blue Sheets - Submittals for Field Qualification" and "Green Sheets - Submittals for Conditional Qualification". The Project Manager will obtain and furnish to the Contractor copies of the most recent lists. "Q" and "F" requirements for products listed under this section are satisfied if the products are qualified on the "Submittals for Field Qualification". Follow the instructions in the Blue and Green Sheets for qualification and documentation requirements. NOTE: Every person installing electrical systems must submit a copy of their electrical license or apprentice registration prior to performing work.
		Reinforcement in Foundations	See 00530 in this Guide.					
		Metal Conduit	02920.10 02920.12		Q,E,O,BG		F,BG	"Q" is marked on conduit. Follow instructions in the Blue/Green Sheets.
		Non-Metallic Conduit	02920.11 02920.12		Q,E,BG		F,BG	"Q" is marked on conduit. Follow instructions in the Blue/Green Sheets.
		Underground Marking Tape	02920.13		BG		F, BG	Follow instructions in the Blue/Green Sheets.
		Metal junction boxes	02920.14(b)		Q,E,O,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Concrete Junction Boxes	02920.14(c), (d)		Q,E,BG		F,BG	Follow instructions in the Blue/Green Sheets.
		Hybrid Junction Boxes – Polymer or Fiberglass	02920.14(e)		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Direct Burial Cable	02920.22		Q,E,BG		F,BG	"Q" is from manufacturer.
		Cable and Wire	02920.20 02920.21 02920.22 02920.23		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Eye Bolts (Carbon Steel A307)	02920.24		T,Q,E,O,BG		F,BG	"T" is from manufacturer. "Q" is from galvanizer. Follow instructions in the Blue/Green Sheets.
		Electrical Splice Materials	02920.25		Q,E,BG		F,BG	"Q" is from manufacturer.

*Special Provisions, Contract Plans and Standard Specifications take precedence over the information in this guide. Refer to your Contract for documentation requirements.

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				LAB	PM			
		Fuse Holders, Ground Rod & Clamp, and Conduit Plug	02920.26 02920.27 02920.28		O,BG		F,BG	Follow instructions in the Blue/Green Sheets.
		Wood Poles	00960.02 00960.47 02120 02190		T,Q,E		F	"T" is for preservative treatment. "Q" is for the grading certificate of lumber inspection.
00962	Metal Illumination and Traffic Signal Supports	Calculations and Drawings	00962.02		E			See Contract Documents. "E"- Calculations and Shop Drawings meeting the requirements of 00962.02.
		High Strength Anchor Bolts/Rods, Threaded Rods, Nuts and Washers	00962.10 02560.30 02560.40 02560.60	T	T,Q,O	L	F	"T" is from the manufacturer. "Q" is from galvanizer. "L" - Sample and test according to 02560.60(b) – submit to Salem Central Materials Lab for testing. Structure Services will perform appropriate inspection for all materials and fabrication. Contact the ODOT Milwaukie Materials Lab @ 971-673-7002 to coordinate.
		Carbon Steel Anchor Bolts/Rods, Threaded Rods, Nuts and Washers	02560.30(a) 02560.40		T,Q,O		F	"T" is from manufacturer. "Q" is from galvanizer.
		High-Strength Fasteners	00962.10 02560.20		T,Q,O,RC		F	"T" is from manufacturer. "Q" is from galvanizer. "RC" RoCap testing is required to be furnished by the high strength bolt supplier, according to 02560.60(a).
		Steel Poles Mast Arms, and Base Plates	00962.10 02530		T,Q,O		F	"Q" from hardware manufacturer and galvanizer. "T" is from pole manufacturer. Silicone content is required per section 002530.70.
00963	Drilled Shafts	Temporary Shaft Casing	00963.01 00963.13 00963.40		Q,E		F	"Q" is from the manufacturer.
		Reinforcement	See 00530 in this Guide.					
00970	Highway Illumination	Equipment List and Drawings	00960 00962 00970.02		E		BG	See Contract Documents. "E"-The Traffic Section's Signal Standards Group has two lists to simplify Contractor submittals: "Blue Sheets – Submittals for Field Qualification" and "Green Sheets – Submittals for Conditional Qualification". The Project Manager will obtain and furnish to the Contractor copies of the most recent lists. "Q" and "F" requirements for products listed under this section are satisfied if the products are qualified on the "Submittals for Field Qualification". Follow the instructions in the Blue and Green Sheets for qualification and documentation requirements.

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		Common Electrical Items	See 00960 in this Guide.					
		Metal Illumination and Signal Supports	See 00962 in this Guide.					
		Wood Poles	See 00960 in this Guide.					
		Cable and Wire	00970.42 02920.20 02920.21 02920.22 02920.23		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Photocontrol Electronic Relay	00970.43 02926.41		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Luminaires, Lamps and Ballasts	00970.03 00970.44 00970.45 02926.50 02926.52		Q,E		F	"Q" is from manufacturer.
		Cabinets	02926.40		Q,E,O,BG		F,BG	"Q" is from manufacturer.
		Circuit Control Devices	02926.41		Q,E,BG		F,BG	"Q" is from manufacturer.
		High-Intensity Discharge Luminaires	02926.53		Q,E,BG		F,BG	"Q" is from manufacturer.
00990	Traffic Signals (See Special Provision)	Equipment List and Drawings. Illumination and Signal Supports Signal Support Drilled Shafts	See 00960 in this Guide for Common Provisions for Electrical Systems. See 00962 in this Guide for Metal Illumination and Traffic Signal Supports. See 00963 in this Guide for Traffic Signal Drilled Shafts.					
		Variable Message Signs	SP00990		Q,E,O		F	VMS signs are purchased through price agreement contracts by the ODOT ITS Unit with FHWA approval. All system documentation is on file with the ITS Unit. "E" is a copy of the ITS purchase request letter and FHWA response approval letter. "Q" is the system manufacturer and product installed recorded on the FIR. "O" is for the anchor bolts. Please contact your RAS or Mike Dennee @ (503)986-3027 if you need assistance obtaining documentation.
		Backer Rod and Loop Sealant	00990.10		Q		F	Provide materials from the QPL "A" or "Q" list.
		Frangible Bases	02925.33		Q,E,O,BG		F,BG	"Q" is from base manufacturer and from fastener manufacturer. "O" needed for fasteners. Follow instructions in the Blue/Green Sheets.

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		High Strength Anchor Bolts/Rods, Nuts and Washers	02925.34 02560.30 02560.40 02560.60(b)	T	T,Q,O	L	F	"T" is from the manufacturer. "Q" is from galvanizer. "L" - Sample and test according to 02560.60(b) – submit to Salem Central Materials Lab for testing.
		Carbon Steel Anchor Bolts/Rods, Tie Rods, Nuts and Washers	02560.30(a) 02560.40		T,Q,O		F	"T" is from manufacturer. "Q" is from galvanizer.
		Cabinets	02925.40 02925.67(b)		Q,E,O,BG		F,BG	"Q" is from manufacturer. Coat as required. Follow instructions in the Blue/Green Sheets.
		Circuit Control Devices	02925.41		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Traffic Signal Control Devices	02925.42		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Traffic Signal Lamps	02925.51		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Signal Indication Material	02925.60		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Signal and Sign Mounting Hardware	02925.62 02925.67(c)		T,Q,O, BG		F, BG	"T" is from manufacturer, "Q" is from galvanizer. Coat as required. Follow instructions in the Blue/Green Sheets.
		Vehicle Signal	02925.64		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Pedestrian Signal Heads	02925.65		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Pedestrian Push Buttons and Mounts	02925.66		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
		Coating – Signal Heads	02925.67(a)		Q,E,BG		F,BG	"Q" is from manufacturer. Coat as required. Follow instructions in the Blue/Green Sheets.
		Signal Head Covers	02925.68		Q,E,BG		F,BG	"Q" is from manufacturer. Follow instructions in the Blue/Green Sheets.
01030	Seeding	Seed	01030.13		T,Q		F	"T" is for all testing listed under section 01030.13. "Q" is information on label (May be documented separately with a verifiable lot #).
		Fertilizers	01030.14		Q		F	"Q" is label on container. Field will include information on FIR.
		Soil Conditioners, Amendments, and Bio-Amendments	01030.12 01040.15 01040.16 01040.17 03020		T,Q,P/R		F	Mushroom compost and peat moss soil conditioners must be submitted to PM for approval. "T" & "P/R" are for commercially manufactured compost only. See acceptance criteria in 03020.90.

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		Hydromulch	01030.15(a)				F,QPL	
		Straw Mulch	01030.15(b)		T,Q		F	Submit "Q" or "T" in accordance with 01030.15(b).
		Compost Mulch	01030.15(c) 03020		T,Q,P/R		F	T & "P/R" are for commercially manufactured compost only. See acceptance criteria in 03020.90.
		Tackifier	01030.16		Q		F	
		Pesticides	01030.17 01030.30(b)		Q,P		F	"Q" is manufacturer's federal registered label, and MSDS (if requested). Must receive approval prior to use. "P" is for pesticide applicator.
		Selected Topsoil	01030.11 01040.14(a)		Q		F	"Q" confirms weed free. Submit 20 lb sample to PM.
		Imported Topsoil	01030.11 01040.14(b)		Q	L	F	"L" is from ODOT Salem Central Materials Lab. "Q" confirms weed free. Submit 20 lb sample to PM.
		Wetland Topsoil	01030.11 01040.14(c)		Q		F	"Q" confirms weed free. Submit 20 lb sample to PM.
		Seeding Establishment Period	01030.60				F	"F" documents that minimum ground coverage is achieved at end of establishment period.
01040	Planting	Plants	01040.19		Q		F	"Q" is State inspection certificate and shipping certificate for each load or lot of plant material according to 01040.19(c). "Q" for Sod Lawn can be from turf farm indicating compliance with 01040.19(h)(17).
		Soil Conditioners, Amendments, and Bio-Amendments	01040.15 01040.16 01040.17 03020		T,Q,P/R		F	Mushroom compost and peat moss soil conditioners must be submitted to PM for approval. "T" & "P/R" are for commercially manufactured compost only. See acceptance criteria in 03020.90.
		Fertilizers	01030.14 01040.18		Q		F	"Q" is label on container. Field will include information on FIR.
		Herbicides	01040.21		Q		F	
		Mulch: - Bark - Cinder - Rock - Wood Chip	01040.20		Q		F	
		Straw Mulch	01030.15(b) 01040.20(c)		T,Q		F	
		Compost Mulch	01040.20(f) 03020		T,Q,P/R		F	T & "P/R" are for commercially manufactured compost only. See acceptance criteria in 03020.90.

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				LAB	PM			
		Selected Topsoil	01040.14(a)		Q		F	"Q" confirms weed free. Submit 20 lb sample to PM.
		Imported Topsoil	01040.14(b)		Q	L	F	"L" is from ODOT Salem Central Materials Lab. "Q" confirms weed free. Submit 20 lb sample to PM.
		Wetland Topsoil	01040.14(c)		Q		F	"Q" confirms weed free. Submit 20 lb sample to PM.
		Water - Moisture Retention Chemicals	01040.22(c)				F,QPL	
		Plant Establishment Period	01040.70-79				F	"F" documents the condition of the plants at each inspection.
01050	Fences	Reinforcement	See 00530 in this Guide.					
		Barbed Wire	03010.10		Q,O		F	"Q" is from manufacturer and galvanizer
		Chain Link Fabric, Ties, and Tension Wire	03010.30		Q,O		F	
		Fence Gates and Hardware	03010.60		Q,O		F	"Q" is from manufacturer and galvanizer
		Metal Fence Posts, Braces, and Appurtenances	03010.50		Q,O		F	
		Wood Fence Posts and Braces	00570.40 02110.30 02190		T,Q		F,QPL	"T" is for preservative treatment. "QPL" is for field preservative treatment.
		Guardrail Elements	See 00810 in this Guide.					
		Pickets	03010.31		Q,O		F	
		Protective Fence Materials	03010.75		T,Q,O		F,QPL	"T" is for steel plates, angles, and bolts. "Q" is for Chain Link Fabric, Ties, Tension Wire, Posts, and Pickets. "QPL" is for Resin Bonded Anchor System.
		Vinyl Clad Fabric	03010.40		Q,O		F	
		Woven Wire	03010.20		Q,O		F	"Q" is from manufacturer and galvanizer.
01070	Mailbox Supports	Reinforcement	See 00530 in this Guide.					
		Tube Support Frame	01070.12		Q,O		F,QPL	"Q" is from manufacturer and galvanizer if not listed in the QPL.
		Mounting Brackets and Hardware	01070.13		Q,O		F,QPL	"Q" is from manufacturer and galvanizer if not listed in the QPL.
		Post Mounting Socket	01070.14		O		F,QPL	

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SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS			REMARKS	
				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB		BY FIELD
				LAB	PM			
01090	Gravel Beds and Blankets	Soil Sterilant	01090.10				F,QPL	
		Weed Control Geotextile	01090.11				F,QPL	
01120	Irrigation Systems	Materials List, as Built Plans	01120.10 01120.70		E			
		Galvanized Pipe and Fittings	01120.11(a)		Q,O		F	"Q" is from manufacturer and galvanizer.
		PVC Pipe and Fittings	01120.11(b) 01120.11(c)		Q		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM designation on FIR.
		Polyethylene Pipe	01120.11(d)		Q		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM designation on FIR.
		Other Materials	01120.12-21		Q,O		F	"Q" is from manufacturer.
01140	Potable Water Pipe and Fittings	Bolted, Sleeve-Type Couplings for Plain End Pipe	02475.60		Q,O		F	
		Ductile Iron Pipe and Fittings	02470.20 02475.20		Q,O		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the AWWA designation on FIR.
		Polyethylene Encasement	02470.50		Q		F	
		PVC Pipe and Fittings	02470.40 02470.45 02475.40 02475.45		Q		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM or AWWA designation on FIR.
		Steel Pipe and Fittings	02470.30 02470.35 02475.30 02475.35		Q,O		F	"Q" is markings on pipe. Field will include manufacturer's name, size, and the ASTM or AWWA designation on FIR.
		Restrained Joints	02475.50		Q		F	Restraint systems provided for pipe bells shall be certified by the pipe manufacturer.
		Carbon Steel Tie Rods	02485.60 02560.30 02560.40		T,Q,O		F	"T" is from the manufacturer. "Q" is from the galvanizer.
		Reinforcement	See 00530 in this Guide.					

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				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB	BY FIELD	
				LAB	PM			
01150	Potable Water Valves	Valves, Power-Actuating Devices, and Backflow Prevention Devices	02480.10-70		Q,O		F	All materials shall conform to ANSI/NSF Standard 61 Drinking Water System Components or equivalent.
01160	Hydrants and Appurtenances	Auxiliary Gate Valves	02480.20		Q		F	
		Hydrants, End Connections, Extensions, and Traffic Flange	02485.10 02485.20 02485.30 02485.40 02485.50		Q,O		F	
		Carbon Steel Tie Rods	02485.60 02560.30 02560.40		T,Q,O		F	"T" is from the manufacturer. "Q" is from the galvanizer.
		Valve Boxes and Extensions	02480.25 02480.26		O		F	
01170	Potable Water Service Connections, 2 Inch and Smaller	Potable Water Service Connection Materials	02490.10-80		Q,O		F	All materials shall conform to ANSI/NSF Standard 61 Drinking Water System Components or equivalent.