SECTION 802 STRUCTURAL EXCAVATION, BACKFILL, AND EARTH RETAINING SYSTEMS

			SAMPLED BY	TESTED	MIN.	MIN. QUANT.		SMALL	TYPICAL	
MAT	ERIAL	PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	HANDLING TIME	REMARKS
BACKFILL	Reinforced Box Culverts	Accept.			·	•	SEE S	ECTION 702 OF T	HIS MANUAL.	·
		Accept.		PE						Material shall be of acceptable quality and uniformly compacted by approved methods to the satisfaction of the PE
CONCRETE	Compressive Strength	*	PE S 301	Dist. Lab	3 cyl / location	6 in. x 12 in. or 4 in. x 8 in. cylinder			10 days	*Used to determine earliest date for placement of backfill next to structures.
SHEET PILES	Concrete						SEE SECTIC	N 805 OF THIS M	ANUAL	
	Steel							N 807 OF THIS M		
	Steel						SEE SECTIO		ANUAL	
	Timber						SEE SECTIC	N 812 OF THIS M	ANUAL	
MECHANI- CALLY STABILIZED	Facing Elements	Quality Control	Contractor	Contractor	*					* Provide compressive strength results to PE to indicate conformance to specifications.
EARTH WALLS (MSEWs)		Accept.	PE S 601 or S 301	Const. Fab. Insp.	1 / 10,000 blocks or 1 / 50 cy	1 block or 6 cylinders	CD			
	Admixtures	Accept.	Const. Fab. Insp. S 601	Mat. Lab	1/type/mfr. batch	1 pt friction top can	CC		10 days	(AML) Visual inspection by Construction Fabrication Inspection. Sample only if questionable. If sample is taken, leave 2" air space in can.
	Surface Finish						SEE SECTIC	N 805 OF THIS M	ANUAL	
	Epoxy Resin Systems	Accept.	PE	Mat. Lab	1/lot	1 qt. each component friction top can	CC	1 gal	11 days	(AML) Specify type and grade
	Concrete (For Coping or Half Connectors)					<u>.</u>	SEE SECTIC	N 901 OF THIS M	ANUAL	<u>I</u>
	Reinforcing Strips	Accept.	Const. Fab. Insp. S 501	Mat. Lab	1/size/ grade/source		CA		10 days	
	Reinforcing Welded Wire Mesh	Accept.	Const. Fab. Insp. S 501	Mat. Lab	1/shipment	48" x 48"	CA		11 days	
	Extensible Soil Reinforcement (Woven Geosynthetic or Geogrid)	Accept.	РЕ S 601	*			CA			* Department may submit samples to an approved independent laboratory for verification.

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SECTION 802 STRUCTURAL EXCAVATION, BACKFILL, AND EARTH RETAINING SYSTEMS

	мат	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
	WAT		FURF.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REMARKS
- 1-800	CALLY	Backfill (granular reinforced or stone)	Quality Control	Contractor	Contractor	1 / 1000 cy 1 / 5000 cy*		CA			(AML) * Sampled and tested during initial source approval or with change in source. gradation & pH - 1 / 1000 cy internal friction angle, organic content, resistivity, chloride content, sulfate content - 1 / 5000 cy
2 10/21		Reinforcement Attachment Devices	Accept.	Const. Fab. Insp. S 501	Mat. Lab	1/type/ shipment		CA		11 days	
		Geotextile Fabric	Accept.	PE S 601	Mat. Lab	1/type/ source/ shipment	3 lin ft/roll width of fabric*	CC	150 yd ²		(AML) *Sample a minimum of 18 ft ² . Visual inspection, sample only if questionable.
		Geomembrane	Accept.	PE S 601	Mat. Lab	1/type/ source/ shipment	3 lin ft/roll width of membrane*	CC			*Sample a minimum of 18 ft ² . Visual inspection, sample only if questionable.

SECTION 803 DRILLED SHAFTS

MAT	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
MAI		PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REMARKS
PAINT AND PROTECTIVE COATING	Coal Tar Epoxy Polyamide Paint or Galvanizing				•		SEE SECTIO	N 811 OF THIS M/	ANUAL.	·
CONCRETE (Structural)	Mix Designs, Materials & Test					5	SEE SECTIO	N 901 OF THIS M/	ANUAL.	
GRANULAR MATERIAL		Accept.								Visual inspection by PE
GROUT		Accept.	PE S 601	Mat. Lab	1/lot	1 full sack *			16 days	(AML) *Sample shall be submitted in an unbroken moisture proof sack.
HARDWARE		Accept.	PE S 501	Mat. Lab	1/size/type/heat	2 of each item*			10 days	*Two (2) pieces of each size and type of hardware used are to be submitted.
REINFORCE- MENT		Accept.	PE S 501	Mat. Lab	1/size/grade/ 150,000 lbs. /source*	48 in. length	CA		10 days	(AML) *material with a CA need not be sampled for acceptance. Sample only questionable.
SLURRY		Quality Control	Contractor API 13B	Contractor	*					*Contractor tests to be observed by the PE & documented.
		Accept.	PE*	PE						*Contractor tests to be observed by the PE & documented.
STEEL CASING		Accept.			-		SEE S	ECTION 807 OF T	HIS MANUAL.	
WELDING			1			SEE SEC	TION 809 OF	THIS MANUAL.		

SECTION 804 PILES

			SAMPLED BY	TEOTED		MIN. QUANT.		0.00411	TYPICAL	
MAT	ERIAL	PURP.	METHOD	TESTED BY	MIN. FREQ.	CONTAINER	CERT.	SMALL QUANTITY	HANDLING TIME	REMARKS
BACKFILL	Granular Type Material	Accept.	PE S 101	Dist. Lab	1/1,000 yd ³	1 full sample sack				Visual inspection by PE Sample only if questionable
CONCRETE PILES (Cast-in- Place)	Concrete (Mix Designs, Materials & Tests)		<u> </u>				I SEE SECTIO	N 901 OF THIS M.	I ANUAL.	I
	Reinforcing Steel	Accept.	PE S 501	Mat. Lab	1/size/grade/ 150,000 lb/ source	48 in. length	CA		10 days	(AML) *If listed on AML, material with a CA (Distr. 1) need not be sampled. Sample only if questionable.
	Steel Pipe Pile	Accept.		PE			CA			Visual inspection by PE
	Steel Shell	Accept.		PE						Visual inspection by PE
CONCRETE PILES (Precast)	Pile	Accept.	Inspected and stamped by Const. Fab. Insp. Unit prior to use. See Section 805 of this Manual.	PE			сс			Visual inspection by PE See Section 805 of this manual.
EPOXY RESIN SYSTEMS		Accept.	PE	Mat. Lab	1/lot	1 qt. each component friction top can	CC	1 gal	11 days	(AML) Specify type and grade
HYDRAULIC JACKS		Accept.		Mat. Lab			CA		12 days	* Calibrated by an approved, independent calibration service and a certified lab report furnished to the Mat. Lab for approval and distribution to the PE The system must be calibrated at the beginning of each project and as required.
HARDWARE		Accept.	PE S 501	Mat. Lab	1/size/type/heat	2 of each item*			10 days	*Two (2) pieces of each size and type of hardware used are to be submitted.
PAINT AND PROTECTIVE COATINGS	Coal Tar Epoxy				<u> </u>		SEE SECTIO	N 811 OF THIS M	ANUAL.	
PERMANENT SHEET PILES	Aluminum or Steel	Accept.		Const. Fab. Insp.			CD OR CC*			*CC if inspected by DOTD
	Aluminum or Steel	Accept.	Inspected and stamped by Const. Fab. Insp. prior to use. See Section 805 of this manual.	Const. Fab. Insp.			CD			Visual inspection by PE

SECTION 804 PILES (Cont'd)

	IATERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
'n		PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REMARKS
PERMANEN SHEET PILE (Cont'd)		Accept.	Inspected and stamped by Const. Fab. Insp. prior to use. See Section 812 of this manual.	Const. Fab. Insp.			CD			Visual inspection by PE
STEEL PILE STEEL PIPE PILES		Accept.		Const. Fab. Insp.			CA			Visual inspection by PE
TIMBER PIL	ES Treated and Untreated	Accept.	Inspected and stamped by Const. Fab. Insp. prior to use. See Section 812 of this manual.	Const. Fab. Insp.			CD			Visual inspection by PE
TREATMEN OF TIMBER PILE HEADS						SEE SEC	TION 812 OF	THIS MANUAL.		
WELDING						SEE SEC	TION 809 OF	THIS MANUAL.		

SECTION 805 STRUCTURAL CONCRETE

MAT	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
			METHOD	BY	FREQ.	CONTAINER		QUANTITY	TIME	
	FC	OR DETAILS	ON CONCRETE	TESTS, MIX DES	SIGNS AND MATE	RIALS (ADMIXTU	JRES, AGGF	REGATES, CEMEN	IT AND WATER)	SEE SECTION 901 0F THIS MANUAL.
BACKFILL		Accept.					SEE S	ECTION 802 OF T	HIS MANUAL.	
BEARING PADS	Elastomeric	Accept.	Const. Fab. Insp.* S 601	Mat. Lab	1/100 pads/type** /lot	1 pad	CA		14 days	(AML) *PE sample at destination only if not sampled at site of source supplier. **Plain or Laminated.
	Masonry	Accept.	PE S 601	Mat. Lab	1/type	1 pad	CA		10 days	
BOX CULVERT UNITS (Precast)	Gasket Material	Accept.	SEE SECTION 701 OF THIS MANUAL.	Mat. Lab			CC			(AML) Gasket test report lab no. listed on precast unit CC.
	Precast Concrete Unit	Accept.	Inspected and stamped by Mfr. prior to use.	PE			CD			(AML) Visual Inspection by PE_CD to include lot number for Gasket Materials.
		Verif	Const. Fab. Insp. S 601	Const. Fab. Insp. / Mfr.	1/180 day production/ plant	4 cyl/set 6 in. x 12 in. or 4 in. x 8 in. cylinder mold				
BRIDGE MEMBERS	Concrete Precast	Accept.	Inspected and stamped by Const. Fab. Insp. prior to use.	Const. Fab. Insp.			CD			Visual inspection by PE For specific details see EDSM III.2.5.7.
CONCRETE ANCHOR SYSTEMS	Anchor Bolts	Accept.	PE S 601	Mat. Lab	1/size/type/heat	2 bolts*			11 days	*Two bolts of each size used are to be submitted.
	Cartridge Systems	Accept.	PE S 601	Mat. Lab	1/size/type/lot **	2 of each item*			14 days	(AML) Includes bolts & nuts intended to be used with the system. *Two pieces of each size and type of item used are to be submitted. **Visual inspection by PE Sample only if questionable.
	Grout Systems (Resin or Cementitious)	Accept.	PE S 601	Mat. Lab	1/lot	1 qt friction top can of each component			14 days	(AML) Includes bolts & nuts intended to be used with the system. Visual inspection by PE Sample only if questionable.
	Injection System	Accept.	PE S 601	Mat. Lab	1 / type / lot	1 of each component			14 days	(AML) Includes bolts & nuts intended to be used with the system. Visual inspection by PE Sample only if questionable.
	Mechanical Systems	Accept.	РЕ S 601	Mat. Lab	1/size/type/lot **	2 of each item*			10 days	(AML) *Two of each size and type of item used are to be submitted. Includes bolts & nuts intended to be used with the system. **Visual inspection by PE Sample only if questionable.

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МА	TERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
			METHOD	BY	FREQ.	CONTAINER		QUANTITY	TIME	
CONCRETE (In-Place)	Compressive Strength	*	PE S 301	Dist. Lab	3 cyl/ structural member	6 in. x 12 in. or 4 in. x 8 in. cylinder mold			10 days	*To determine strength for form removal or exposure to construction traffic.
		Accept.					SEE S	ECTION 901 OF T	HIS MANUAL.	
	Deck Surface Finish	Quality Control	Contractor*	Contractor	each deck					Plastic Concrete *Surface must be checked on bridge decks using an approved 10 ft met static straightedge supplied by the contractor.
		Verif.	PE	PE	each deck					PE to observe contractor check bridge deck surface.
	Tine Texturing	Quality Control	Contractor	Contractor	*					Plastic Concrete *Sufficient number of random checks to assure the required texture dep is achieved.
		Accept.	PE	PE	2/lot					Performed on hardened concrete.
CONCRETE PATCHING MATERIAL	I				I	SEE SEC	TION 830 OF	F THIS MANUAL.		
CURING MATERIALS	Burlap Cloth	Accept.	PE S 601	Mat. Lab	1/shipment*	36 in. x 36 in.			10 days	*Visual inspection by the PE Sample only if questionable.
	Burlap & White Polyethylene Sheeting	Accept.	PE S 601	Mat. Lab	1/shipment*	36 in. x 36 in.			10 days	*Visual inspection by PE_Sample only if questionable.
	Liquid Membrane- Forming Compounds	Accept.	PE S 601	Mat. Lab	1/shipment*	1 qt friction top can	CC		10 days	(AML) *Visual inspection by PE Sample only if questionable.
	Waterproof Paper	Accept.	PE S 601	Mat. Lab	1/shipment*	36 in. x 36 in.			10 days	*Visual inspection by the PE_Sample only if questionable.
	White Polyethylene Sheeting	Accept.	PE S 601	Mat. Lab	1/shipment*	36 in. x 36 in.			10 days	*Visual inspection by the PE_Sample only if questionable.
EPOXY RESIN SYSTEMS	Ероху	Accept.	PE S 601	Mat. Lab	1/lot		CC	1 gal		(AML) Specify type and grade
		Verif.	PE S 601	Mat. Lab	1/lot	1 qt each component friction top can	CC	1 gal	11 days	(AML) Specify type and grade Copy of CC shall be submitted with sample.
FORM RELEASE AGENTS		Accept.	PE S 601	Mat. Lab	1/lot	1 qt friction top can	CC		 10 days	(AML) Visual inspection by the PE_Sample only if questionable.
GEOTEXTILE FABRIC		Accept.	PE S 601	Mat. Lab	1/type/ source/ shipment	3 lin ft/roll width of fabric*	CC	150 yd ²	10 days	(AML) *Sample a minimum of 18ft2. Visual inspection, sample only if questionable.

МАТ	FERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
	-		METHOD							
JOINT MATERIALS						SEE SEC	TION 815 OF	THIS MANUAL.		
NON-SHRINK GROUT		Accept.	PE S 601	Mat. Lab	1/lot	1 full sack *			16 days	(AML) *Sample shall be submitted in an unbroken moisture proof sack.
PRECAST CONCRETE (Non- Prestressed other than Bridge	Precast Unit	Accept.	Inspected and stamped by Const. Fab. Insp. Unit prior to use.	PE			CD			CD must include Lot No. for gasket material if applicable.
Members)	Admixtures	Accept.	Const. Fab. Insp. S 601	Mat. Lab	1/type/mfr. batch	1 pt friction top can	CC		10 days	(AML) Visual inspection by Construction Fabrication Inspection.Sample only if questionable. If sample is taken, leave 2" air space in can.
	Aggregate (Coarse & Fine)	Accept.	Const. Fab. Insp. S 101	Dist. Lab	*	1 full sample sack			4 days	(AML) *Visual inspection by Const. Fab. Insp. Sample only if questionable.
	Cement		SEE SE	CTION 901 OF TH	HIS MANUAL.		CC		11 days	
	Compressive Strength	Accept.	Const. Fab. Insp or Proj. Engr	Dist. Lab	1/pour*	Three cylinder molds			30 days	*A pour is an identifiable pour not to exceed 50 yd.
	Gasket Material		SEE SE	CTION 701 OF TH	HIS MANUAL.		CD			
	Mix Design	Design		Const. Fab. Insp.	1/class/ material source/plant					Contractor shall submit to Const. Fab. Insp. the standard mix design form indicating the intended source of all materials and mix design. Approval by Const. Fab. Unit. Engineer required prior to work.
	Reinforcing Steel Bars	Accept.	Const. Fab. Insp. S 501	Mat. Lab	1/size/ grade/ 150,000 lb/ source	48 in. length	CA		10 days	(AML) Sample only if questionable.
	Welded Wire Fabric	Accept.	Const. Fab. Insp. S 501	Const. Fab. Insp.	1/shipment	48 in. x 48 in.	CA		11 days	Sample only if questionable.

МАТ	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
			METHOD	BY	FREQ.	CONTAINER		QUANTITY	TIME	
PRECAST CONCRETE (Prestressed & Non-Prestressed Bridge Members)	Precast Unit	Accept.	Inspected and stamped by Const. Fab. Insp. prior to use.	Const. Fab. Insp.			CD			CD must include lot no. for elastormeric bearing pads if applicable.
Monbolo)	Admixtures	Accept.	Const. Fab. Insp. S 601	Mat. Lab	1/type/mfr. batch	1 pt friction top can	CC		10 days	(AML) - Visual inspection - sample only if questionable. Sample only if questionable. If sample is taken, leave 2" air space in can.
	Aggregate (Coarse & Fine)	Quality Control	Mfr. S 101	Mfr.	1/lot*	1 full sample sack				(AML) Gradation and Moisture. *Lot to be identifiable pour up to 200 yd3 of concrete.
		Accept.	Const. Fab. Insp. S 101	Dist. Lab or Const. Fab. Insp.	2/month*	1 full sample sack			3 days	(AML) *Const. Fab. Insp. to witness manufacturer's QC testing.
	Cement		SEE SE	CTION 901 OF TH	HIS MANUAL.		CC			
	Compressive Strength & Surface Resistivity	Accept.	Const. Fab. Insp. S 301	Const. Fab. Insp.	7 cyl/pour*	Cylinder mold			30 days	*Cylinder cured under same conditions as members. Two cylinders are tested for 28 day strength. For precast box culverts, cylinders shall be in accordance with ASTM C789.
	Elastomeric Bearing Pads	Accept.	Const. Fab. Insp. S 601	Mat. Lab	1/100 pads/type/lot	1 pad	CA		14 days	(AML)
	Epoxy Resin Systems	Accept.	Const. Fab. Insp. S 601	Mat. Lab	1/lot	1 qt/ component friction top can			10 days	(AML) Specify type and grade
	Mix Design	Design		Const. Fab. Insp.	1/class/ material source/plant					Contractor shall submit to Const. Fab. Insp. the standard mix design for indicating the intended source of all materials and the mix design. Approval by Const. Fab. Insp. required prior to work.
	Steel Bars & Spiral Reinforcement	Accept.	Const. Fab. Insp. S 501	Mat. Lab	1/size/grade/ 150,000 lb/ source	48 in. length	CA		10 days	(AML) Sample only if questionable.
	Tie Bars or Transverse Rods	Accept.	Const. Fab. Insp. S 501	Mat. Lab	1/lot	48 in. length	CA / CC *		10 days	(AML) *CA - Mill report, CC to indicate specification for steel and coating Sample only if questionable.

MATI	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
		-	METHOD	BY	FREQ.	CONTAINER		QUANTITY	TIME	
CONCRETE (Prestressed &	Strands for Prestressing	Accept.	Const. Fab. Insp. S 501	Mat. Lab	1/size/grade/ source/proj./per heat no. *	3 strands 5 ft length			11 days	*Not to exceed 200 tons. Manufacturer's Load/Elongation curveshall accompany sample.
Non-Prestressed Bridge Members) Cont'd)	Welded Wire Fabric	Accept.	Const. Fab. Insp. S 501	Mat. Lab	1/shipment	48 in. x 48 in.	CA		11 days	Visual inspection by Const. Fab. Sample only if questionable.
PRECAST PRE- STRESSED ORMS	Bearing Strips and Adhesive	Accept.								Visual inspection by PE
	Concrete Deck Forms (Stay In Place Panels)	Accept.	Inspected and stamped by Const. Fab. Insp. Prior to use. See precast concrete (Prestressed & Non- Prestressed Bridge Members) in this section.	Const. Fab. Insp.			CD			Visual inspection by PE For specific details see EDSM III.2.5.7.
REINFORCE- /IENT	Bars					ŝ	SEE SECTIO	N 806 OF THIS MA	ANUAL.	
PECIAL SURFACE INISH	Concrete	Accept.	PE S 601	Mat. Lab	1/lot or shipment*	1 qt. component friction top can	СС		10 days	(AML) *Visual inspection by PE_Sample only if questionable.
VATER STOPS	Copper	Accept.	PE S 601	Mat. Lab	1/lot or shipment*	24 in. length	CA			*Visual inspection by PE Sample only if questionable.
	Polyvinyl Chloride	Accept.	PE S 601	Mat. Lab	1/shipment*	36 in. length	СС			*Visual inspection by PE_Sample only if questionable.
	Rubber	Accept.	PE S 601	Mat. Lab	1/lot or shipment*	36 in. length	CA			*Visual inspection by PE Sample only if questionable.

SECTION 806 DEFORMED REINFORCING STEEL

мат	TERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
		FURF.	METHOD	BY	FREQ.	CONTAINER	OLKI.	QUANTITY	TIME	NEWARKS
REINFORCE- MENT	Bars (Epoxy Coated)	Accept.	PE S 501	Mat. Lab	1/size/grade/ 150,000 lb /source	2 bars approx. 48 in. in length	CC		10 days	(AML) Cert. of Compliance provided by the applicator.
	Bars & Spirals	Accept.	PE S 501	Mat. Lab	1/size/grade/ 150,000 lb /source*	48 in. length	CA		10 days	(AML) *Material with a CA need not be sampled for acceptance. Sample only if questionable.
	Chairs or Metal Bar Supports	Accept.	PE S 501	Mat. Lab	1/type*	1 chair				*Visual inspection by the PE Sample only if questionable.
	Patching Material (Epoxy Coated Bars)	Accept.	PE S 601	Mat. Lab	1/source	1 qt friction top can of each component *	CC		10 days	(AML) * If listed on AML, material with a CC need not be sampled. Sample only if questionable.
	Stirrups, Tie Bars	Accept.	PE S 501	Mat. Lab	1/size/grade 150,000 lb/ source*	2 of each item	CA		10 days	(AML) *If listed on AML, material with a CA need not be sampled. Sample only i questionable.
SPLICING	Mechanical Butt Splicing Devices	Contractor Qualifi- cation	PE S 501	Mat. Lab	1/size*	2 assembled splices/each size (rebar ribs aligned)			10 days	(AML) *Separate field spliced samples per horizontal and vertical positions. Test prior to use.
		Accept.	PE S 501	Mat. Lab	1/size/25 splices*	1 assembled splice 3 ft length (rebar ribs aligned)			10 days	* Frequency may be reduced to 1 per size / 100 splices after the first 100 splices.
	Welded Butt Splice					<u> </u>	SEE SECTIO	I IN 815 OF THIS M	ANUAL.	1

SECTION 807 STRUCTURAL METALS

мат	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
MATE	ERIAL	PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REMARKS
BEARINGS & BEARING PADS						:	SEE SECTIO	N 814 OF THIS M	ANUAL.	
CASTINGS	Metal for Castings	Accept.	Const. Fab. Insp. S 601	Const. Fab. Insp.	1/heat	1 test bar*	CA			*Const. Fab. Insp. may submit samples to Mat. Lab for testing if questionable.
	Unit	Accept.		Const. Fab. Insp.			CA			PE to receive form 4148 (Certificate of Cast Iron Covers, Grates, etc.) from Contractor.
ANCHOR BOLTS		Accept.	PE S 501	Const. Fab. Insp.	1/diameter/ shipment	2 of each item*	CA			Sample if not accompanied by report from Construction Fab. * For sizes over 1-1/8", sample only 1 of each item.
FASTENERS (Field Installation)	Bolts, Nuts & Washers	Accept.	PE S 501	Mat. Lab	1/diameter/ shipment	2 of each item*	CC		10 days	*Two bolts, two nuts and two washers are to be submitted. Copy of CC to accompany sample and ID.
	High Strength Bolts, Nuts & Washers and Direct Tension Indicators	Accept.	PE S 501	Mat. Lab	1/type/size/ heat	2 of each item*	CA		10 days	* For sizes over 1-1/8", sample only 1 of each item. Copy of CA to accompany sample and ID. Similar size, type and heat of nut and washer need not be submitted.
FASTENERS (Shop Installation)	Bolts, Nuts & Washers	Accept.	Const. Fab. Insp. S 501	Mat. Lab	1/diameter/ shipment	3 of each item*	СС		10 days	Proj. Engr . to receive inspection report from Const. Fab. Insp. * Three bolts, 3 nuts and 3 washers are to be submitted. Copy of CC to accompany sample ID.
	High Strength Bolts, Nuts & Washers and Direct Tension Indicators	Accept.	Const. Fab. Insp. S 501	Mat. Lab	1/type/ diameter/ heat	3 of each item*	CA		10 days	Proj. Engr . to receive inspection report from Const. Fab. Insp. * Three bolts, 3 nuts,3 washers, 3 DTI are to be submitted. For sizes ove 1-1/8", sample only 1 of each item. Copy of CA to accompany sample of ID.
NON-SHRINK GROUT		Accept.	PE S 601	Mat. Lab	1/shipment	1 full sack			16 days	(AML) Sample shall be submitted in a unbroken, moisture proof sack.
PAINT AND PROTECTIVE COATINGS			1				SEE SECTIO	N 811 OF THIS M/	ANUAL.	1
SHEAR CONNECTORS		Accept.		Const. Fab. Insp.			CA			Shop and field inspection requirements per Specification Section 807

SECTION 807 STRUCTURAL METALS (Cont'd)

	MAT	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
	WAT		PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REMARKS
	STEEL FORGINGS & SHAFTING	Steel for Forging & Shafts		Inspected and stamped by the Const. Fab. Insp. Unit prior to use.							PE to receive inspection report from Const. Fab. Insp.
ñ	STRUCTURAL STEEL & ALUMINUM	Metal for Fabrication		Inspected and stamped by the Const. Fab. Insp. Unit prior to use.	Const. Fab. Insp.						PE to receive inspection report from Const. Fab. Insp.
	WELDING						ę	SEE SECTIO	N 809 OF THIS M	ANUAL.	
	WRENCH	Calibrated Wrench	Accept.		PE	*	3 assemblies/ size				Contractor's calibration procedure to be witnessed by PE *See Specification Subsection 807.05.2 for frequency of calibration.
		Job Inspection Torque Wrench	Accept.		PE	*	5 assemblies/ size				*See Specification Subsection 807.05.2 for frequency of calibration.

SECTION 808 STEEL GRID FLOORING

ĺ	мат	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
	WAT		FURF.	METHOD	BY	FREQ.	CONTAINER	OERT.	QUANTITY	TIME	NLIJANNS
		Mix Designs, Materials & Tests					ę	SEE SECTIO	N 901 OF THIS M/	ANUAL.	
-800	PAINT AND PROTECTIVE COATINGS						:	SEE SECTIO	N 811 OF THIS M/	ANUAL.	
_	STRUCTURAL STEEL	Flooring		Inspected and stamped by the Const. Fab. Insp. Unit prior to use. See Section 807 of this manual.	Const. Fab. Insp.			CA			PE to receive inspection report from Const. Fab. Insp.
	WELDING			L				SEE SECTIO	N 809 OF THIS MA	ANUAL.	

SECTION 809 WELDING

	МАТ	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
			TOINT.	METHOD	BY	FREQ.	CONTAINER	OERT.	QUANTITY	TIME	
	THIS SECTION I	S TO BE USED AS	A GUIDE F	OR OTHER ITEM	NUMBERS WHE	N REFERENCE IS	S MADE TO SECT	FION 815. TH	IERE ARE NO PA	Y ITEMS UNDER	SECTION 815.
I-800	WELDING QUALIFI- CATION AND TESTING	Field		Welders and procedure qualified by licensed, bonded testing laboratory. Procedure and welder qualification			_				
		Shop	Accept.		Const. Fab. Ins.	'					

SECTION 810 BRIDGE RAILINGS, HAND RAILINGS, PERMANENT ROADWAY BARRIERS, AND PIER PROTECTION SYSTEMS

МАТ	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
		T OIG .	METHOD	BY	FREQ.	CONTAINER	OERT.	QUANTITY	TIME	NEMANICO
OR DETAILS C	ON CONCRETE AN	D ASSOCIA	TED MATERIALS	, SEE SECTIONS	8 805 AND 901 OF	THIS MANUAL /	AND SECTIO	ON 1012 OF THE S	TANDARD SPEC	CIFICATIONS.
BARRIER Precast)	Permanent Barriers	Accept.	Inspected and stamped by Const. Fab. Insp. prior to use.	PE			CC			Visual inspection by PE
				FOR BA	ARRIERS FABRIC	ATION INSPECT	ION BY PRO	JECT ENGINEER	, SEE BELOW	1
CONCRETE	Mix Designs, Materials & Tests			S	EE SECTION 901	OF THIS MANUA	NL.			Air entrainment is required for slip forming.
URING				S	EE SECTION 805	OF THIS MANUA	NL.			
MATERIALS										
IARDWARE	Galvanized Steel	Accept.	PE S 501	Mat. Lab	1/size/type/ shipment	2 of each item*			10 days	*Two pieces of each size and type of hardware used are to be submitte
METAL CASTINGS, FITTINGS, POSTS & RAILINGS	Steel		Inspected and stamped by the Const. Fab. Unit prior to use. See Section 807 of this manual.	Const. Fab. Insp.			CA			PE to receive inspection report from Const. Fab. Insp.
	Pipe (Galvanized)	Accept.	Inspected and stamped by the Const. Fab. Unit prior to use. See Section 807 of this manual.	Const. Fab. Insp.			CA			PE to receive inspection report from Const. Fab. Insp.
OINT IATERIALS		Accept.			SEE SECTIO	N 815 OF THIS N	ANUAL.		17 days	
PAINT AND PROTECTIVE COATINGS							SEE SECTIO	N 811 OF THIS M	ANUAL.	1
EINFORCING	Deformed Steel Bars	Accept.	PE S 501	Mat. Lab	1/size/ source*	48 in. length	CA		10 days	*If listed on AML, materials with a CA (Dist. 1) need not be sampled. Sample for verification if questionable.
/ELDING						l;	SEE SECTIO	N 809 OF THIS M	ANUAL.	1
PECIAL URFACE INISH	Concrete	Accept.	PE S 601	Mat. Lab	1 lot or shipment*	1 each friction top can	СС		10 days	(AML) *Visual inspection by PE Sample only if questionable.
	Masonry Finish	Accept.	PE S 601	Mat. Lab	1/lot or shipment	1 qt friction top can	CC		11 days	(AML) Sample if not accompanied by CC or if questionable.

SECTION 811 PAINTING AND PROTECTIVE COATINGS

	МАТЕ	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
			T OKT :	METHOD	BY	FREQ.	CONTAINER	OERT.	QUANTITY	TIME	IN LIMANING
ī	HIS SECTION IS	S TO BE USED AS	S A GUIDE F	OR OTHER ITEM	NUMBERS WHE	N REFERENCE I	S MADE TO SEC	FION 811. T	HERE ARE NO PA	Y ITEMS UNDER	SECTION 811.
		Paint for Field Painting	Accept.	РЕ S 604		1/batch	1 pt each component friction top can	CD*	10 Gal.Total Quantity / coat	14 days	*Sample when not accompanied by CD. Multiple component paints must be submitted in separate containers with the mixing proportions indicated on the sample identification and cans. Sampling technique is sensitive, contact Dist. Lab prior to sampling.
		Galvanizing Repair Compound	Accept.	PE S 601	Mat. Lab	1/type*	1 bar, can or rod				(AML) *Visual inspection by PE_Sample only if questionable.
		Paint for Shop Painting	Accept.	Const. Fab Insp. S 604		1/batch	1 pt each component friction top can	CD*/CC**		14 days	(AML) *Sample when not accompanied by CD. Multiple component paints must be submitted in separate containers with the mixing proportions indicated on the sample identification and cans. Contractor to notify Bridge Design Engineer and Consultant Engineer of the paint system to be used prior to submitting shop drawings. **For inorganic zinc primers, stating Class B slip coefficient is met.

SECTION 812 TREATED TIMBER

мат	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
WAT		PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	KEWIARKS
CONNECTORS		Accept.	PE S 501	Mat. Lab	1/type/shipment*	1 of each item**			10 days	*Visual inspection by PE Sample only if questionable. **One of each type of connector used is to be submitted.
CASTINGS		Accept.	PE S 501	Mat. Lab	1/type/shipment	1 of each item*			10 days	*One of each type of casting used is to be submitted.
HARDWARE & STRUCTURAL SHAPES		Accept.	PE S 501	Mat. Lab	1/type/shipment	1 of each item*	CA 3		10 days	*One piece of each type and size of item used is to be submitted.
PAINT AND PROTECTIVE COATINGS							SEE SECTIO	N 811 OF THIS M	ANUAL.	
ROOFING PITCH		Accept.		PE						Visual inspection by PE
TIMBER & LUMBER (Treated)		Accept.	Inspected and stamped (Hammered) by Const. Fab. Insp. Unit prior to use.	Const. Fab. Ins./ Mat. Lab			CD			Visual inspection by PE
	Preservatives	Accept.	Const. Fab. Insp. S 601	Mat. Lab	1/tank*	1 qt friction top can	CA		14 days	*Visual inspection by Const. Fab. Insp. Sample only if questionable.
TREATMENT OF PILE HEADS	Canvas	Accept.	PE S 601	Mat. Lab	1/shipment*	18 in x 18 in.			10 days	*Visual inspection by PE Sample only if questionable.
	Coal Tar Pitch, Creosote Oil, Asphalt & Copper Napthanate	Accept.	PE S 201	Mat. Lab	1/shipment*	1 qt friction top can			10 days	*Visual inspection by PE Sample only if questionable.
	Fabric Covering	Accept.	PE S 601	Mat. Lab	1/shipment*	18 in. x 18 in.			10 days	*Visual inspection by PE Sample only if questionable.
	Galvanized Metal Covering	Accept.	PE S 501	Mat. Lab	1/shipment*	6 in. x 6 in.			10 days	*Visual inspection by PE Sample only if questionable.
	Galvanized Nails, Staples & Wire	Accept.	PE S 501	Mat. Lab	1/size/type/ shipment*	12 of each item** Wire - 24 in. length			10 days	*Visual inspection by PE Sample only if questionable. **Twelve nails and 12 staples are to be submitted.

SECTION 813 CONCRETE APPROACH SLABS

		5055	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	0557	SMALL	TYPICAL	2514.0%2
MATI	ERIAL	PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	HANDLING TIME	REMARKS
	FC	OR DETAILS	ON CONCRETE	TESTS, MIX DE	SIGNS AND MATE	RIALS (ADMIXTU	RES, AGGE	REGATES, CEMEN	T AND WATER)	SEE SECTION 901 OF THIS MANUAL.
AGGREGATES	Bedding Material	Accept.	PE S 101	Dist. Lab	1/1,000 yd ³	1 full sample sack			4 days	
BEARING PILES	Timber	Accept.	Inspected and		const. fab. Insp. L 2 of this manual.	Init prior to use.	CD			Visual inspection by PE
CONCRETE (In-Place)	Compressive Strength	*	PE S 301	Dist. Lab	1/pour	Three cylinder mold				*To determine strength for form removal or exposure to construction traffic.
CURING MATERIALS							SEE SECTIO	ON 601 OF THIS MA	ANUAL.	·
GEOCOM- POSITE DRAINAGE SYSTEM	Wall Drain	Accept.	PE S 601	Mat. Lab	1/lot or shipment	4ft ²	CA		10 days	(AML)
GEOTEXTILE FABRIC		Accept.	PE S 601	Mat. Lab	1/type	3 lin ft/roll width of fabric*	CC	150 yd ²	10 days	(AML) *Sample a minimum of 18 ft2.
HARDWARE CLOTH		Accept.	PE S 601	Mat. Lab	1/shipment*	18 in x 18 in.			10 days	*Visual inspection by PE Sample only if questionable.
JOINT MATERIAL	Preformed Closed Cell Polyethylene	Accept.	PE S 601	Mat. Lab	1/5,000 lin ft/ Width	36 in. length				(AML)
	Silicone Polymer (single or two- component rapid	Accept.	PE S 611	Mat. Lab	1/shipment*	1 gal friction top can	CD	2,000 yd ² PCCP	30 days	(AML) *Sample only if questionable.
	cure)	Accept.*	PE S 611	Mat. Lab	1/batch or shipment	1 gal friction top can	CA	2,000 yd ² PCCP	30 days	(AML) *When material is not accompanied by a CD.
JOINT SEAL (Preformed)	Elastomeric Compression	Accept.	PE S 601	Mat. Lab	1/lot or shipment	8 ft length*	CA **		14 days	(AML) *When width is over 2 in., 4 ft length is sufficient. **PE forwards CA with sample to Mat. Lab.
ADHESIVE LUBRICANT-	For Preformed Closed Cell polyethylene Joint Filler	Accept.							10 days	(AML) Visual inspection by Proj. Engr.
	For Preformed Elastomeric Compression Joint Seal	Accept.	PE S 601	Mat. Lab	1 Project/lot	1qt friction top can			10 days	(AML) Mix well before sampling. Seal can tightly.
POLY- ETHYLENE FILM		Accept.	PE S 601	Mat. Lab	1/lot or shipment*	36 in. length			10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
REINFORCING STEEL		Accept.	PE S 501	Mat. Lab*	1/size/ source*	48 in. length	CA		10 days	(AML) *Material with a CA need not be sampled for acceptance. Sample only i questionable.
UNDERDRAIN							SEE SECTIO	ON 703 OF THIS MA	NUAL.	1
PIPE										

SECTION 814 BEARINGS

MA	TERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
MA	TERIAL	PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REMARKS
BEARING ASSEMBLY & EXPANSION	Contractor Designed	Design	Const. Fab. Insp.*	Const. Fab. Insp.*			CA			* Disc, pot, or other bearing types as shown on plans. Provide designs to Construction Fabrication in accordance to the contract requirements.
		Accept.	PE S 601		1 / lot	1 assembly	CA			Tested by AASHTO LFRD Bridge Construction Specifications.
	Bronze	Accept.		PE			CA			Visual inspection by PE Contact Const. Fab. If questionable.
	Copper-Alloy (Rolled)	Accept.		PE			CA			Visual inspection by PE Contact Const. Fab. If questionable.
	PTFE Bearing Assembly	Accept.		PE			CA			Visual inspection by PE Contact Const. Fab. If questionable.
BEARING PADS	Elastomeric	Accept.	Const. Fab. Insp.* S 601	Mat. Lab	1/100 pads/type** /lot	1 pad	CA		14 days	(AML) *PE samples at destination only if not sampled at site of source or supplier. **Plain or Laminated.
	Masonry	Accept.	PE S 601	Mat. Lab	1/type/size	1 pad	CA		10 days	
CAST IRON, STEEL, ROLLED STEEL		1	1		1	SEE SEC	TION 807 OF	THIS MANUAL.	1	<u> </u>
WELDING						SEE SEC	TION 809 OF	THIS MANUAL.		

SECTION 815 JOINTS

мат	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
MAI		FURF.	METHOD	BY	FREQ.	CONTAINER	GERT.	QUANTITY	TIME	REWARKS
ADHESIVE LUBRICANT		Accept.	PE S 601	Mat. Lab	1 Project/lot	1qt friction top can			10 days	(AML) Mix well before sampling. Seal can tightly.
CONCRETE	Mix Designs, Materials & Tests						SEE SECTIO	N 901 OF THIS M	ANUAL.	
CONCRETE (Structural)						:	SEE SECTIO	N 805 OF THIS M	ANUAL.	
HARDWARE	High Strength Bolts, Nuts & Washers and Direct Tension Indicators	Accept.	PE S 501	Mat. Lab	1/type/size/ heat	2 of each item*	CA		10 days	* For sizes over 1-1/8", sample only 1 of each item. Copy of CA to accompany sample and ID. Similar size, type and heat of nut and washer need not be submitted.
JOINT DESIGN		Design	Bridge Engineer	Bridge Engineer*						* Provide Joint Design, Fabrication Plan, and Installation Plan to Bridge Engineer for review.
JOINT FILLER		Accept.	PE S 601	Mat. Lab	1/5000 lin ft/ type *	36 in. length			10 days	*Visual inspection by PE Sample only if questionable.
JOINT MATERIALS	Adhesive- Lubricant	Accept.	PE S 601	Mat. Lab	1/lot *	1 qt friction top can			10 days	(AML) For use with preformed elastomeric compression joint seal. * Visual inspection, sample only if questionable. Mix well before sampling. Seal can tightly.
	Backer Rod	Accept.		Mat. Lab			СС			(AML) Visual inspection by PE Sample only if questionable.
	Rubberized Asphaltic Type	Accept.	Dist. Lab S 611	Mat. Lab	1/shipment	one container	CD *		11 days	(AML) * Sample if not accompanied by CD
	Silicone Polymer (single or two- component rapid	Accept.	Dist. Lab S 611	Mat. Lab	1/shipment*	1 gal friction top can	CD		30 days	(AML) *Sample only if questionable.
	cure)	Accept.	Dist. Lab S 611	Mat. Lab	1/batch or shipment *	1 gal friction top can	CA		30 days	(AML) *When material is not accompanied by a CD.
	Polyurethane Polymer	Accept.	Dist. Lab S 611	Mat. Lab	1 / shipment*	one unit of each component	CD		14 days	(AML) *When material is accompanied by a CD, sample only if questionable.
		Accept.	Dist. Lab S 611	Mat. Lab	1 / batch *	one unit of each component **	CA		14 days	(AML) *When material is not accompanied by a CD. **One unit of each component selected at random and submitted as sample.

SECTION 815 JOINTS (Cont'd)

мат	TERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
WA		PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REMARKS
JOINT MATERIALS (Cont'd)	Reinforced Elastomeric Joint Seal	Accept.		Mat. Lab			CC & CA			Elastomer - CA; Steel - CC. Visual inspection by PE
	Preformed Neoprene	Accept.	Dist. Lab S 611	Mat. Lab	1/shipment*	48 in. length	CC			*Visual inspection by PE_Sample only if questionable.
	Preformed Silicone	Accept.	Dist. Lab S 611	Mat. Lab	1/shipment*	48 in. length	CC **			*Visual inspection by PE Sample only if questionable. ** CC to include both silicone seal and adhesive.
	Fabricated Trough / Membrane	Accept.	Dist. Lab S 611	Mat. Lab	1/shipment*		CC			*Visual inspection by PE_Sample only if questionable.
	Metal End Dams for Preformed Neoprene and Silicone Joint Seals	Accept.	See Section 807 of this Manual.	Mfr.			CA			Visual inspection by PE Contact CONST. FAB. INSP. If questionable.
METAL JOINT COMPONENTS	Finger plates, sliding plates, armor assemblies, shapes, studs, anchors, and other required components.	Accept.	Inspected and stamped by Const. Fab. Insp. Unit prior to use. See Section 807 of this Manual.	Const. Fab. Insp.			CA			PE to receive inspection report from Const. Fab. Insp.
WELDING						:	SEE SECTIO	N 809 OF THIS M	ANUAL.	

SECTION 816 BRIDGE DRAINAGE SYSTEMS

мат		PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	DEMARKO	
MAT	ERIAL	PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REMARKS	
JOINT DESIGN		Design	Bridge Engineer	Bridge Engineer*						* Provide fabrication details to Bridge Engineer for review.	
BEDDING							SEE SECTIO	N 726 OF THIS M			
MATERIAL											
CONCRETE	Mix Designs, Materials & Tests					:	SEE SECTIO	N 901 OF THIS M/	ANUAL.		
CONCRETE (Structural)						:	SEE SECTIO	N 805 OF THIS M/	ANUAL.		
CULVERTS & STORM DRAINS			SEE SECTION 701 OF THIS MANUAL.								
	Bolts, Nuts & Washers	Accept.	PE S 501	Mat. Lab	1/diameter/ shipment	2 of each item*	CA **		10 days	*Two bolts, two nuts and two washers are to be submitted. ** Copy of CA or report from Const. Fab. Insp. / Bridge Engineer to accompany sample and ID.	
MANHOLES,							SEE SECTIO	N 702 OF THIS M	ANUAL.		
JUNCTION BOXES, CATCH BASINS, & END TREATMENTS											
METAL PIPE		SEE SECTION 701 OF THIS MANUAL.									
PAINT AND PROTECTIVE COATINGS							SEE SECTIO	N 811 OF THIS M/	ANUAL.		
REINFORCING STEEL		Accept.	PE S 501	Mat. Lab	1/size/grade/ 150,000 lb/ source	48 in. length	CA		10 days	(AML) *If listed on AML, material with a CA (Distr. 1) need not be sampled. Sample only if questionable.	
STRUCTURAL METALS						:	SEE SECTIO	N 807 OF THIS M	ANUAL.		

SECTION 817 TEMPORARY WORKS

	MATE	ERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
(CONCRETE	Mix Designs, Materials & Tests						SEE SECTIO	N 901 OF THIS MA	ANUAL.	<u> </u>
	CONCRETE Structural)						:	SEE SECTIO	N 805 OF THIS MA	ANUAL.	
	ORILLED SHAFTS						:	SEE SECTIO	N 803 OF THIS MA	ANUAL.	
Ī	ENCE						:	SEE SECTIO	N 705 OF THIS MA	ANUAL.	
	GRANULAR MATERIAL						:	SEE SECTIO	N 203 OF THIS MA	ANUAL.	
2000	GUARD RAIL						:	SEE SECTIO	N 704 OF THIS MA	ANUAL.	
5	PAINT AND PROTECTIVE COATINGS						:	SEE SECTIO	N 811 OF THIS MA	ANUAL.	
ł	PILES						:	SEE SECTIO	N 804 OF THIS MA	ANUAL.	
	REINFORCING		Accept.	PE S 501	Mat. Lab	1/size/grade/ 150,000 lb/ source	48 in. length	CA		10 days	(AML) *If listed on AML, material with a CA (Distr. 1) need not be sampled. Sample only if questionable.
~	HEETING		SEE SECTION 802 OF THIS MANUAL.								
	STRUCTURAL METALS							SEE SECTIO	N 807 OF THIS MA	ANUAL.	
	EMPORARY DETOUR ROAD						:	SEE SECTIO	N 725 OF THIS MA	ANUAL.	
	IMBER		SEE SECTION 812 OF THIS MANUAL.								

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SECTION 818 MARINE PIER PROTECTION

			SAMPLED BY	TESTED	MIN.	MIN. QUANT.	0557	SMALL	TYPICAL	2511.270		
MAI	ERIAL	PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	HANDLING TIME	REMARKS		
CONCRETE	Mix Designs, Materials & Tests					:	SEE SECTIO	N 901 OF THIS M/	ANUAL.			
CONCRETE (Structural)						:	SEE SECTIO	N 805 OF THIS M	ANUAL.			
PIER PROTECTION SYSTEMS	Ultra-High Molecular Weight Polyethylene (UHMW-PE)	Accept.	PE	Mfg.			CA *			* Visual inspection by PE		
	Plastic Composite Marine Timber	Accept.	PE	Mfg.			CA *			* Visual inspection by PE		
	Rubber Fender Elements (Extruded & Molded)	Accept.	PE	Mfg.			CA *			* Visual inspection by PE		
REINFORCING STEEL		Accept.	РЕ S 501	Mat. Lab	1/size/grade/ 150,000 lb/ source *	48 in. length	CA		10 days	(AML) *If listed on AML, material with a CA (Distr. 1) need not be sampled. Sample only if questionable.		
STRUCTURAL CONCRETE							SEE SECTIO	N 805 OF THIS M/	ANUAL.			
STRUCTURAL METALS & FASTENERS			SEE SECTION 807 OF THIS MANUAL.									
TIMBER						:	SEE SECTIO	N 812 OF THIS M	ANUAL.			
WELDING		SEE SECTION 809 OF THIS MANUAL.										

SECTION 820 MOVABLE BRIDGES

	MAT	- RIAI	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
			METHOD		BY	FREQ.	CONTAINER	OENT.	QUANTITY	TIME	NEHIAKKO
	BEARINGS						\$	SEE SECTIO	N 814 OF THIS MA	ANUAL.	
800 - 26 10/21	BRIDGE RAILINGS, HAND RAILINGS, AND PERMANENT ROADWAY BARRIERS		SEE SECTION 810 OF THIS MANUAL.								
		Mix Designs, Materials & Tests		SEE SECTION 901 OF THIS MANUAL.							
	CONCRETE (Structural)				S	EE SECTION 805	OF THIS MANUA	L.			PE to witness test for unit weight. Bridge Design must approve calculations for determining unit weight.

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SECTION 820 MOVABLE BRIDGES (Cont'd)

мат		PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	DEMARKS
	ERIAL	PURP.	METHOD	BY	FREQ.	CONTAINER		QUANTITY	TIME	REMARKS
CONCRETE APPROACH SLABS							SEE SECTIO	วัN 813 OF THIS M.	ANUAL.	
DRAINAGE SYSTEMS							SEE SECTIO	ON 816 OF THIS M	ANUAL.	
ELECTRICAL SYSTEMS							SEE SECTIO	ON 822 OF THIS M	ANUAL.	
EPOXY RESIN SYSTEMS		Accept.	PE	Mat. Lab	1/lot	1 qt. each component friction top can	CC	1 gal	11 days	(AML) Specify type and grade
HARDWARE	Bolts, Fasteners, Fittings, Nuts, Washers & Misc. Hardware	Accept.	PE* S 501	Mat. Lab	1/size/type/ shipment	2 of each item**			10 days	*When sampled by Const. Fab. Insp. and listed on report to PE, project samples are not required. **Two pieces of each size and type of hardware used are to be submitted For bolt sizes over 1-1/8", only one of each item for the assembly required.
JOINTS						-	SEE SECTIC	ON 815 OF THIS M	ANUAL.	
MECHANICAL SYSTEMS	<u> </u>						SEE SECTIC	ON 821 OF THIS M	ANUAL.	
FACILITIES	1						SEE SECTIC	ON 823 OF THIS M	ANUAL.	
NON-SHRINK GROUT		Accept.	PE S 601	Mat. Lab	1 / lot	1 full sack *	CC		16 days	*Sample shall be submitted in an unbroken moisture proof sack.
PAINT AND PROTECTIVE COATINGS			<u> </u>			:	SEE SECTIO	ON 811 OF THIS M	ANUAL.	
POWER PLANT						:	SEE SECTIO	ON 822 OF THIS M	ANUAL.	
STEEL GRID FLOORING						:	SEE SECTIO	ON 808 OF THIS M	ANUAL.	
STRUCTURAL METALS							SEE SECTIO	ON 807 OF THIS M	ANUAL.	
TIMBER						<u> </u>	SEE SECTIO	ON 812 OF THIS M	ANUAL.	
TRAFFIC BARRIERS	Drawings & Brochures	Accept.	Bridge Design approves and distributes to PE	Bridge Design						Structural Fabrication Inspect in accordance with Sections 729 & 807 of this manual.
WELDING			<u> </u>		<u> </u>	- L	SEE SECTIO	ON 815 OF THIS M	ANUAL.	

WIRE ROPE &	SEE SECTION 821 OF THIS MANUAL.
ATTACHMENTS	

SECTION 821 MECHANICAL SYSTEMS

		DUDD	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	0505	SMALL	TYPICAL	D514.0%0
MAI	FERIAL	PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	HANDLING TIME	REMARKS
CONCRETE	Mix Designs, Materials & Tests		<u>. </u>			<u> </u>	SEE SECTIO	ON 901 OF THIS M	ANUAL.	
CONCRETE (Structural)							SEE SECTIO	ON 805 OF THIS M	ANUAL.	
ELECTRICAL SYSTEMS							SEE SECTIO	ON 822 OF THIS M	ANUAL.	
EPOXY RESIN SYSTEMS	Ероху	Accept.	PE S 601	Mat. Lab	1/lot		CC	1 gal		(AML) Specify type and grade
		Verif.	PE S 601	Mat. Lab	1/lot	1 qt each component friction top can	сс	1 gal	11 days	(AML) Specify type and grade Copy of CC shall be submitted with sample.
FACILITIES				r	<u> </u>		SEE SECTIO	ON 823 OF THIS M	ANUAL.	
FENCES							SEE SECTIO	ON 705 OF THIS M	ANUAL.	
JACKED OR BORED PIPE							SEE SECTIO	ON 728 OF THIS M	ANUAL.	
MECHANICAL SYSTEMS (each system)	Brochures, Drawings, Cut Sheets, Field Measurements, Calculations & other required documentation	Accept.	Bridge design approves and distributes to PE for all items listed in Mechanical System Submittals requirements.							PE inspects materials and components to ensure conformance.
				<u> </u>	<u> </u>	<u> </u>	SEE SECTIC	DN 811 OF THIS M	ANUAL.	
PROTECTIVE COATINGS										
STRUCTURAL METALS & FASTENERS	Bolts, Nuts & Washers (Non- High Strength)	Accept.	PE S 501	Mat. Lab	1/diameter/ shipment	2 of each item*	CC		10 days	*Sample only if questionable. If sampled, two bolts, two nuts and two washers are to be submitted. Copy of CC to accompany sample and ID.
	High Strength Bolts, Nuts & Washers, Direct Tension Indicators, Miscellaneous Hardware, and Structural Parts						SEE SECTIO	N 807 OF THIS M.	ANUAL.	

SECTION 821 MECHANICAL SYSTEMS (Cont'd)

	МАТЕ		PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
	MAT		PURP.	METHOD	BY	FREQ.	CONTAINER	CERI.	QUANTITY	TIME	REIMARKS
I-800	WELDING							SEE SECTIO	N 815 OF THIS MA	ANUAL.	
- 20	WIRE ROPE & ATTACHMENTS	Counterweight Rope Assemblies	Accept.	Inspected and stamped by Const. Fab. Insp. Unit prior to use.	Const. Fab. Insp.			CA			PE to receive inspection report on counterweight ropes and sockets from Const. Fab. Insp.
		Wire Rope	Accept.	PE S 501	Mat. Lab	1/type or class/ shipment	6 ft length	CA			Does not include counterweight ropes. Visual inspection by PE contact construction Fab. If questionable

SECTION 822 ELECTRICAL SYSTEMS

	мат	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
	MAT		FURF.	METHOD	BY	FREQ.	CONTAINER	DISTR.	QUANTITY	TIME	NLIIIANNS
		CTRICAL COMPO	NENTS & M	ATERIALS NOT	SPECIFICALLY N	IENTIONED IN TH					E REQUIREMENTS FOR ELECTRICAL EQUIPMENT BELOW.
		Mix Designs, Materials & Tests					:	SEE SECTIO	N 901 OF THIS MA	ANUAL.	
	CONCRETE (Structural)						:	SEE SECTIO	N 805 OF THIS MA	ANUAL.	
-800 - 30	CONDUIT		Accept.	Bridge Design approves and distributes to PE	Bridge Design						
10/21	DRILLED SHAFTS						:	SEE SECTIO	N 803 OF THIS MA	ANUAL.	
	ELECTRICAL CONDUCTORS		Accept.		PE			CA			Visual Inspection by PE
	EQUIPMENT	Brochures, Certified Dimension Sheets & Description Data	Accept.	Bridge Design approves and distributes to PE	Bridge Design						
	EMBANKMENT		SEE SECTION 203 OF THIS MANUAL.								

SECTION 822 ELECTRICAL SYSTEMS (Cont'd)

			SAMPLED BY	TESTED	MIN.	MIN. QUANT.		SMALL	TYPICAL	
MATI	ERIAL	PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	HANDLING TIME	REMARKS
EPOXY RESIN SYSTEMS	Ероху	Accept.	PE S 601	Mat. Lab	1/lot		CC	1 gal		(AML) Specify type and grade
		Verif.	PE S 601	Mat. Lab	1/lot	1 qt each component friction top can	CC	1 gal	11 days	(AML) Specify type and grade Copy of CC shall be submitted with sample.
FASTENERS	Anchor Bolts, Nuts, and Washers	Accept.	PE S 501	Mat. Lab	1/size/type	1 of each item*	CA		11 days	*One of each size and type of bolt, nut and washer is to be submitted.
	Bolts, Nuts & Washers (Except for Anchor Bolt Assemblies)	Accept.	PE S 501	Mat. Lab	1/diameter/ shipment	2 of each item*	CC		10 days	*Sample only if questionable. If sampled, two bolts, two nuts and two washers are to be submitted. Copy of CC to accompany sample and ID.
GROUND ROD ASSEMBLY	Ground Rod, Wire & Clamp	Accept.	PE S 501	Mat. Lab	1/item	1 of each item Wire - 18 in. Iength			9 days	Visual inspection by PE Sample only if questionable. Coated steel hardware is not permitted.
GUARANTY	Contractor's Guaranty	Accept.	PE and Bridge Design approves and files.	PE						
	Manufacturer's Standard Warranty	Accept.	PE and Bridge Design approves and files.	PE						
HIGH MAST POLES		Accept.	Inspected and stamped by Const. Fab. Insp. Prior to use. See section 807 of this Manual.	Const. Fab. Insp.			CA			Inspection report from Const. Fab. Insp. shall be sent to the PE
LIGHT POLES	Brochures, Certified Dimension Sheets & Description Data	Accept.	Bridge Design approves and distributes to PE	Bridge Design						
MECHANICAL SYSTEMS							SEE SECTIO	N 821 OF THIS M	ANUAL.	
MORTAR		Accept.	PE	Mat. Lab	1/shipment	1 gal friction top can	CC	50 yd ³	19 days	Visual inspection by PE. Sample only if questionable.
PAINT AND PROTECTIVE COATINGS			1			l;	SEE SECTIO	N 811 OF THIS M	ANUAL.	1
PILES						:	SEE SECTIO	N 804 OF THIS M	ANUAL.	

SECTION 822 ELECTRICAL SYSTEMS (Cont'd)

I	MAT	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
	MAT		PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REMARAS
	REINFORCING STEEL	Bars	Accept.	PE S 501	Mat. Lab	1/size/ source*	48 in. length	CA			*If listed on AML, material with a CA (Distr. 1) need not be sampled. Sample for verification if questionable.
	STEEL GRID FLOORING							SEE SECTIO	N 808 OF THIS MA	NUAL.	
0 - 32 10/21	SYSTEM TESTS		Accept.		Contractor						PE to observe tests and receive report of test results
21	TIMBER		Accept.	Inspected stamped by Const. Fab. Insp. Prior to use. See section 812 of this Manual.	Mat. Lab/ Const. Fab. Insp.			CD		11 days	Visual inspection by PE
	WELDING			•				SEE SECTIO	N 809 OF THIS MA	NUAL.	

SECTION 823 FACILITIES

	мат	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS	
	MAT		FURF.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REIMARIS	
		Mix Designs, Materials & Tests					ę	SEE SECTIO	N 901 OF THIS M	ANUAL.		
	CONCRETE (Structural)						ę	SEE SECTIO	N 805 OF THIS M	ANUAL.		
,	DECK DRAINAGE SYSTEMS						\$	SEE SECTIO	N 816 OF THIS M/	ANUAL.		
ώ	DRILLED SHAFTS			SEE SECTION 803 OF THIS MANUAL.								
	ELECTRICAL SYSTEMS						ŝ	SEE SECTIO	N 822 OF THIS M/	ANUAL.		
	EMBANKMENT						\$	SEE SECTIO	N 203 OF THIS M/	ANUAL.		
	EPOXY RESIN SYSTEMS	Ероху	Accept.	PE S 601	Mat. Lab	1/lot		CC	1 gal		(AML) Specify type and grade	
			Verif.	PE S 601	Mat. Lab	1/lot	1 qt each component friction top can	CC	1 gal	11 days	(AML) Specify type and grade Copy of CC shall be submitted with sample.	

1-800 - 32 10/21

SECTION 823 FACILITIES (Cont'd)

			SAMPLED BY	TESTED	MIN.	MIN. QUANT.		SMALL	TYPICAL		
MAT	ERIAL	PURP.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	HANDLING TIME	REMARKS	
FASTENERS	Anchor Bolts, Nuts, and Washers	Accept.	PE S 501	Mat. Lab	1/size/type	1 of each item*	CA		11 days	*One of each size and type of bolt, nut and washer is to be submitted.	
	Bolts, Nuts & Washers (Except for Anchor Bolt Assemblies)	Accept.	PE S 501	Mat. Lab	1/diameter/ shipment	2 of each item*	СС		10 days	*Sample only if questionable. If sampled, two bolts, two nuts and two washers are to be submitted. Copy of CC to accompany sample and ID.	
FENCES							SEE SECTIO	N 705 OF THIS M	ANUAL.		
JACKED OR BORED PIPE						:	SEE SECTIO	ON 728 OF THIS M	ANUAL.		
MECHANICAL SYSTEMS			SEE SECTION 821 OF THIS MANUAL.								
MORTAR		Accept.	PE S 601	Mat. Lab	1/shipment	1 gal friction top can	CC	50 yd ³	19 days	Visual inspection by PE. Sample only if questionable.	
PAINT AND PROTECTIVE COATINGS							SEE SECTIO	ON 811 OF THIS M	ANUAL.		
PILES						:	SEE SECTIO	ON 804 OF THIS M	ANUAL.		
REINFORCE- MENT						:	SEE SECTIC	ON 806 OF THIS M	ANUAL.		
REINFORCING STEEL	Steel, Strand, and Wire Rope	Accept.	PE S 501	Mat. Lab	1/size/ source*	48 in. length	CA		11 days	*If listed on AML, material with a CA (Distr. 1) need not be sampled. Sample for verification if questionable.	
STEEL GRID FLOORING			1	I			SEE SECTIO	ON 808 OF THIS M	ANUAL.		
STRUCTURAL METALS			SEE SECTION 807 OF THIS MANUAL.								
TIMBER		Accept.	Inspected stamped by Const. Fab. Insp. Prior to use. See section 812 of this Manual.	Mat. Lab/ Const. Fab. Insp.			CD		11 days	Visual inspection by PE	
WELDING		SEE SECTION 809 OF THIS MANUAL.									

SECTION 829 INSTRUMENTATION AND EVALUATION

	МАТ	ERIAL	PURP.	SAMPLED BY	TESTED	MIN.	MIN. QUANT.	CERT.	SMALL	TYPICAL HANDLING	REMARKS
	MAI		FURF.	METHOD	BY	FREQ.	CONTAINER	CERT.	QUANTITY	TIME	REWARKS
	ELECTRICAL SYSTEMS						ę	SEE SECTIO	N 822 OF THIS M	ANUAL.	
I-800 - 35	FASTENERS	Bolts, Nuts & Washers (Non- High Strength)	Accept.	PE S 501	Mat. Lab	1/diameter/ shipment	2 of each item*	СС		10 days	*Sample only if questionable. If sampled, two bolts, two nuts and two washers are to be submitted. Copy of CC to accompany sample and ID.
10/21		High Strength Bolts, Nuts & Washers and Tension Indicators	Accept.	PE S 501	Mat. Lab	1/type/size/ heat	2 of each item*	CA		10 days	* For sizes over 1-1/8", sample only 1 of each item. Copy of CA to accompany sample and ID. Similar size, type and heat of nut and washer need not be submitted.
		Steel Lockpins and Collars	Accept.	PE S 501	Mat. Lab	1/lot or shipment	1 pin and collar	CC		10 days	Copy of CC to accompany sample ID.

MATERIAL		PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING	REMARKS	
			METHOD		Theu:	CONTAINER			TIME		
BEARINGS SEE SECTION 814 OF THIS MANUAL.											
BRIDGE RAILINGS, HAND RAILINGS, AND PERMANENT ROADWAY BARRIERS		SEE SECTION 810 OF THIS MANUAL.									
CONCRETE	Mix Designs, Materials & Tests		SEE SECTION 901 OF THIS MANUAL.								
CONCRETE Structural)		SEE SECTION 805 OF THIS MANUAL.									
CONCRETE APPROACH SLABS		SEE SECTION 813 OF THIS MANUAL.									
DRAINAGE SYSTEMS		SEE SECTION 816 OF THIS MANUAL.									
EPOXY RESIN SYSTEMS	Ероху	Accept.	PE S 601	Mat. Lab	1/lot		CC	1 gal		(AML) Specify type and grade	
		Verif.	PE S 601	Mat. Lab	1/lot	1 qt each component friction top can	СС	1 gal	11 days	(AML) Specify type and grade Copy of CC shall be submitted with sample.	
ELECTRICAL		SEE SECTION 822 OF THIS MANUAL.									
ACILITIES		SEE SECTION 823 OF THIS MANUAL.									

SECTION 830 REPAIR AND REHABILITATION

MATERIAL		PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
											JOINTS
MECHANICAL SYSTEMS		SEE SECTION 821 OF THIS MANUAL.									
MOVABLE BRIDGES		SEE SECTION 820 OF THIS MANUAL.									
PAINT AND PROTECTIVE COATINGS		SEE SECTION 811 OF THIS MANUAL.									
REINFORCE- MENT		SEE SECTION 806 OF THIS MANUAL.									
Steel grid Flooring		SEE SECTION 808 OF THIS MANUAL.									
STRUCTURAL CONCRETE PATCHING	Structural Concrete Patching Material	Accept.	PE S 601	Mat. Lab	1/lot*	1 container of each component	CA **		16 days	* Provide components and appropriate mixing information ** Provide CA if required by PE	
	Rapid-Setting Concrete Patching	Accept.	PE S 601	Mat. Lab	1/lot*	1 sack	CC		16 days	(AML) - for patching tops of decks only *Visual inspection by PE Sample only if questionable.	
STRUCTURAL METALS		SEE SECTION 807 OF THIS MANUAL.									
TIMBER		SEE SECTION 812 OF THIS MANUAL.									
VELDING		SEE SECTION 809 OF THIS MANUAL.									