

SECTION 201 CLEARING & GRUBBING

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
BACKFILL SOIL (HOLES)	Usable Soil	201.03 Dist. Lab	Accept.	SEE SECTION 203 OF THIS MANUAL						
	Density	201.03 Proj. Engr.	Accept.	SEE SECTION 203 OF THIS MANUAL						
EROSION CONTROL MATERIALS		201.01 Mat. Lab	Accept.	SEE SECTION 204 OF THIS MANUAL						

I-1 2/07

SECTION 202 REMOVING OR RELOCATING STRUCTURES AND OBSTRUCTIONS

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
BACKFILL	Usable Soil	202.02 Dist. Lab	Accept.	SEE SECTION 203 OF THIS MANUAL						
	Density	202.02 Proj. Engr.	Accept.	SEE SECTION 203 OF THIS MANUAL						
FRIABLE ASBESTOS		202.05(b) Contractor	Accept.	Contractor	1/structure	----	----	----	----	DEQ to provide Confirmation Letter & Asbestos Disposal Verification Form (ADVF).
UST'S	Environmentally Regulated Material	202.05(c) Contractor	Accept.	Contractor	----	----	----	----	----	Chain of Custody Record to become part of Permanent Project Records.
	Tank Fill Material	205.05(c) Contractor	Accept.	Contractor	1/tank	----	----	----	----	Filled material test report provided by contractor.
CONTAMINATED SOIL		202.05(d) Contractor	Accept.	Contractor	1/site	----	----	----	----	Certificate of Disposal to become part of Permanent Project Records.
		202.05(d) Contractor	Accept.	Contractor	1/site	----	----	----	----	Chain of Custody Record to become part of Permanent Project Records.
CONTAMINATED FLUIDS		202.05(d) Contractor	Accept.	Contractor	1/site	----	----	----	----	Chain of Custody Record to become part of Permanent Project Records.
PAINT & TIMBER		205.05 Contractor	Accept.	Contractor	1/site	----	----	----	----	Certificate of Disposal to become part of Permanent Project Records.

1-2 2/07

SECTION 203 EXCAVATION & EMBANKMENT

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
EMBANKMENT, CUT & FILL AREAS	Density	203.12 Contractor	Quality Control	Contractor TR 401	*	----	----	----	----	*Shall check sufficient to ensure specifications are met.
		203.06 203.07 203.08 Proj. Engr.	Accept.	Proj. Engr. TR 401	1/1,000 lin ft/ 2-lane rdwy /lift*	----	----	----	1/2 hr.	*DOTD TR 415 or TR 418 will be completed by the Department for each section/lift as needed for optimum moisture content and determining % compaction.
		Dist. Lab	IA	Dist. Lab TR 401	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					
	Embankment lift (Uncompacted Thickness) or Subgrade Preparation	203.12 Contractor	Quality Control	Contractor	*	----	----	----	----	*Shall check sufficient to ensure specifications are met.
		203.07 203.08 Proj. Engr.	Accept.	*	1/1,000 lin ft/ 2-lane rdwy /lift	----	----	----	----	*Proj. Engr. to check lift thickness during placement & thickness of top layer during preparation.
	Moisture Content @ time of compaction	203.12 Contractor	Quality Control	Contractor TR 403	*	----	----	----	----	*Shall check sufficient to ensure specifications are met.
		203.07 203.08 Proj. Engr.	Accept.	Proj. Engr. TR 403	1/1,000 lin ft/ 2-lane rdwy /lift	----	----	----	1 hr.	Test taken during or just prior to compaction operation.
	Soil on Cut Slope (for PH and PI)	203.06 Dist. Lab	Accept.	Proj. Engr. S 401	1/1,000 lin ft/ slope/soil type	1 full sample sack	----	----	5 days	To determine the need for plastic soil blanket or soil modification option.

I-3 2/07

SECTION 203 EXCAVATION & EMBANKMENT (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
GEOTEXTILE FABRIC		203.11 1019.01 Mat. Lab	Accept.	Proj. Engr. S 601	1/type/ shipment/ source	3 lin ft of full width of fabric roll*	CC 1	150 yd ²	10 days	(QPL 61) Visually inspect seams & UV damage. Seams other than 401 or "J" shall be approved by the Materials & Testing Section. See QA Manual. *Sample a minimum of 18 ft ² . Avoid sampling at end of roll.
LIME	Agricultural	203.06 1018.17 Mat. Lab	Accept.	Proj. Engr. S 102 or S 101	SEE SECTION 718 OF THIS MANUAL.					
	Hydrated or Quick Lime	203.06 1018.03	Accept./ Verif./ Prelim. Source Approval	SEE SECTION 304 OF THIS MANUAL.						
NON-PLASTIC EMBANKMENT	Density	203.12 Contractor	Quality Control	Contractor TR 401	*	----	----	----	----	*Shall check sufficient to ensure specifications are met.
		203.07 Proj. Engr.	Accept.	Proj. Engr. TR 401	1/1,000 lin ft/ 2-lane	----	----	----	1/2 hr.	----
		203.07 Dist. Lab	IA	Dist. Lab TR 401	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					

I-4 2/07

SECTION 203 EXCAVATION & EMBANKMENT (Cont'd)

MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
	TESTED BY		METHOD		CONTAINER	DISTR.				
NON-PLASTIC EMBANKMENT (Cont'd)	203.12 Contractor	Quality Control	-----	*	-----	-----	-----	-----	*Shall check sufficient to ensure specifications are met.	
	203.07 Proj. Engr.	Accept.	Proj. Engr.*	1/1,000 lin ft/ 2 lane rdwy/ lift	-----	-----	-----	-----	*Check lift thickness during placement.	
	203.12 Contractor	Quality Control	Contractor TR 403	*	-----	-----	-----	-----	*Shall check sufficient to ensure specifications are met.	
	203.07 Proj. Engr.	Accept.	Proj. Engr. TR 403	1/1,000 lin ft/ 2 lane rdwy/lift	1 gal Friction top can	-----	-----	1 hr.	-----	
	203.09 1003.09 Mat. Lab	Prelim. Source Approval	Dist. Lab S 101	1/source/ blend	6 full sample sacks	-----	-----	4 weeks	Source shall be approved by the Materials and Testing Lab prior to use.	
	203.12 Contractor	Quality Control	Contractor S 101	*	-----	-----	-----	-----	*Shall check sufficient to ensure specifications are met.	
	203.09 1003.09 Dist. Lab	Accept.	Proj. Engr. S 101	1/2,000 yd ³	1 full sample sack	-----	500 yd ³	4 days	Shall be from an approved source.	
	203.09 Dist. Lab	IA	Dist. Lab S 101	SEE INDEPENDENT ASSURANCE PROGRAM S 701.						
	203.12 Contractor	Quality Control	Contractor S 401	*	-----	-----	-----	-----	*Shall check sufficient to ensure specifications are met.	
	203.09 1003.09 Dist. Lab	Accept.	Proj. Engr.* S 401	1/2,000 yd ³	1 full sample sack	-----	500 yd ³	4 days	*The Dist. Lab will sample if material is in borrow pit.	
	203.09 Dist. Lab	IA	Dist. Lab S 401	SEE INDEPENDENT ASSURANCE PROGRAM S 701.						
	203.12 Contractor	Quality Control	Contractor S 101	*	-----	-----	-----	-----	*Shall check sufficient to ensure specifications are met.	
	203.09 1003.09 Dist. Lab	Accept.	Proj. Engr. S 101	1/2,000 yd ³	1 full sample sack	-----	500 yd ³	4 days	Shall be from QPL 2.	
	203.09 Dist. Lab	IA	Dist. Lab S 101	SEE INDEPENDENT ASSURANCE PROGRAM S 701.						
PLASTIC SOIL BLANKET	203.12 Contractor	Quality Control	Contractor	*	-----	-----	-----	-----	*Shall check sufficient to ensure specifications are met.	
	203.10 Proj. Engr.	Accept.	Proj. Engr.	1/1,000 lin ft /slope	-----	-----	-----	-----	Proj. Engr. to check lift thickness after compaction.	

I-5 2/07

SECTION 203 EXCAVATION & EMBANKMENT (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
PLASTIC SOIL BLANKET (Cont'd)	Plastic Soil	203.12 Contractor	Quality Control	Contractor S 401	*	----	----	----	----	*Shall check sufficient to ensure specifications are met.
		203.10 Dist. Lab	Accept.**	Proj. Engr. S 401	1/1,000 yd ³ *	1 full sample sack	----	300 yd ³	5 days	*Not required if tested & approved as excavation or borrow pit material. Pit approval allowed if identifiable strata can be isolated. **Shall support a satisfactory stand of grass in accordance with Sections 714 or 717.
SELECTED SOIL	In-Place on Roadway	203.12 Contractor	Quality Control	Contractor S 401	*	----	----	----	----	*Shall check sufficient to ensure specifications are met.
		203.06 Dist. Lab	Accept.	Proj. Engr. S 401	1/1,000 lin ft/ 2-lane rdwy or 1/2,000 lin ft / shoulder	1 full sample sack	----	----	5 days	----
	Stockpile	203.12 Contractor	Quality Control	Contractor S 401	*	----	----	----	----	*Shall check sufficient to ensure specifications are met.
		203.06 Dist. Lab	Accept.	Proj. Engr. S 401	1/1,000 yd ³	----	----	----	5 days	----
USABLE SOIL	Borrow Pits	203.12 Contractor	Quality Control	Contractor S 401	1 boring/acre*	----	----	----	----	*Results shall be submitted to Dist. Lab with boring request.
		203.05 Dist. Lab	Accept.	Dist. Lab S 401	1 boring/ acre for first 2 acres; 1 boring/2 acres there after.	1/2 sample sack*	----	100 yd ³	6 days	*Min. 10 lb required for test. May be sampled on the roadway if questionable.
	Excavation	203.12 Contractor	Quality Control	Contractor S 401	as required*	1 full sample sack	----	----	----	May be accepted by subgrade soil survey upon approval of the Dist. Lab.
		203.06 Dist. Lab	Accept.	Dist. Lab S 401	as required*	1 full sample sack	----	100 yd ³	5 days	*Sample full depth of excavation.
	Stockpile	203.12 Dist. Lab	Quality Control	Contractor S 401	*	----	----	----	----	*Shall check sufficient to ensure specifications are met.
		203.06 Dist. Lab	Accept.	Proj. Engr. S 401	1/1,000 yd ³	1 full sample sack	----	100 yd ³	5 days	Will be approved in stockpile before placing on project.
Water		1018.01 Mat. Lab	Accept.	Proj. Engr. S 303	1/source	1 qt plastic bottle	----	----	21 days	Visual inspection by P.E. Sample only if questionable.

I-6 2/07

SECTION 204 TEMPORARY EROSION CONTROL

MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
			METHOD							TESTED BY
BURLAP	204.03 Mat. Lab	Accept.	Proj. Engr. S 601	1/5000 lin ft/ source	3 lin ft of full width of fabric roll*	-----	-----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable. Sample a minimum of 18 ft ² .	
FERTILIZER	1018.16 Proj. Engr.	Accept.	SEE SECTION 718 OF THIS MANUAL.							
HAY BALES	204.03 Proj. Engr	Accept	-----	-----	-----	-----	-----	-----	Visual inspection by Proj. Engr.	
SILT FENCE	Geotextile Fabric (Wire Supported)	204.03 1019 Class F Mat. Lab	Accept.	Proj. Engr. S 601	1/5000 lin ft/ source	3 lin ft of full width of fabric roll*	-----	-----	10 days	(QPL 61) *Visual inspection by Proj. Engr. Sample only if questionable. Sample a minimum of 18 ft ² .
	Geotextile Fabric (Self Supported)	204.03 1019 Class G Mat. Lab	Accept.	Proj. Engr. S 601	1/5000 lin ft/ source	3 lin ft of full width of fabric roll*	-----	-----	10 days	(QPL 61) *Visual inspection by Proj. Engr. Sample only if questionable. Sample a minimum of 18 ft ² .
JUTE FABRIC	204.03 Mat. Lab	Accept.	Proj. Engr. S 601	1/5000 lin ft/ source	-----	-----	-----	10 days	Visual inspection by Proj. Engr. Sample only if questionable.	
LIME (Agricultural)	1018.17 Mat. Lab	Accept.*	SEE SECTION 718 OF THIS MANUAL.							*Visual inspection by Proj. Engr. Sample only if questionable.
LIVESTOCK WIRE	204.03 Mat. Lab	Accept.	Proj. Engr. S 601	1/project/ source*	-----	-----	-----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.	
TEMPORARY CONSTRUCTION ENTRANCE	Geotextile Fabric	204.03 1019 Mat. Lab	Accept.	Proj. Engr. S 601	1/project/ source	3 lin ft of full width of fabric roll*	-----	-----	10 days	(QPL 61) *Visual inspection by Proj. Engr. Sample only if questionable. Sample a minimum of 18 ft ² .
	Recycled PCC	204.03 711.02 1003.01 Proj. Engr.	Accept.	VISUAL INSPECTION AND/OR GRADATION CHECK (AT SOURCE, PROJECT SITE, OR BOTH, AT ENGINEER'S OPTION.)*			-----	-----	-----	*Visual inspection by Proj. Engr. Sample only if questionable. Sample size and unit weight determined by Dist. Lab. Must be from approved source.
	Stone	204.03 711.02 1003.01 Proj. Engr.	Accept.	VISUAL INSPECTION AND/OR GRADATION CHECK (AT SOURCE, PROJECT SITE, OR BOTH, AT ENGINEER'S OPTION.)*			-----	-----	-----	(QPL 2) *Visual inspection by Proj. Engr. Sample only if questionable. Sample size and unit weight determined by Dist. Lab. Must be from an approved source.

SECTION 204 TEMPORARY EROSION CONTROL (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
MULCH	Emulsified Asphalt	204.03 1002.01 Mat. Lab	Accept.*	SEE SECTION 716 OF THIS MANUAL.						*QPL 41
	Fiber Mulch	204.03 1018.19 Mat. Lab	Accept.*	SEE SECTION 716 OF THIS MANUAL.						*QPL 72
	Tacking Agent	204.03 1018.19 Mat. Lab	Accept.*	SEE SECTION 716 OF THIS MANUAL.						*QPL 72
	Hay or Straw	204.03 1018.19 Mat. Lab	Accept.*	SEE SECTION 716 OF THIS MANUAL.						*Visual inspection by Proj. Engr. Sample only if questionable.
POSTS	Wood or Steel	204.03 Proj. Engr.	Accept.	Proj. Engr. S 601	*	----	----	----	----	*Visual inspection by Proj. Engr.
SEED		204.03 Proj. Engr.	Accept.	SEE SECTION 717 OF THIS MANUAL.						
SLOPE DRAINS	Fiber Mats	204.03 Mat. Lab	Accept.	----	*	----	----	----	21 days	*Visual inspection by Proj. Engr. Sample only if questionable.
	Pipe	204.03 Mat. Lab	Accept.	----	*	----	----	----	21 days	*Visual inspection by Proj. Engr.

I-8 2/07