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No.	Item description	СС	TPI	Owner
1.	Civil and building			
1.1	Earthwork			
1.1.1	Soil materials			
	Backfilling			
	Earth dike	Н		
	Underground piping and cable			
1.1.2	Excavation			
	1) Dimension			
	- Location			
	- Level			
	- Line			
	- Profiles	Н		
	2) Excavated bottom			
	- Soil conditions			
	- Degree of compaction			
	- Removal of unsuitable material			
1.1.3	Backfilling			
	 Layering (Thickness of list) 	Н		
	- Degree of compaction			
1.1.4	Filling and banking			
	 Clearing and grubbing 			
	2) Compaction			
	 Layering (Thickness of list) 			
	- Degree of compaction			
	- Type of roller & number of roller	Н		
	passes	''		
	 Intensity of pressure applied to soil 			
	3) Dimension			
	 Final line and grades 			
	- Level			
	- Slope			
1.1.5	Compaction control			
	1)Max. dry density test	Н		
	ASTM D 698 or ASTM D 2557			

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	2)Field density test		
	- ASTM D 1556 or ASTM D 2167		
1.2	Concrete work		
1.2.1	Materials		
	Certificate of cement ASTM C-150		
	2) Aggregate		
	- Sample of aggregate		
	- Sieve analysis ASTM C-136		
	 Amount of chloride and sulfate 	Н	
	- Reactivity to alkalis		
	- ASTM C-227 and ASTM C-289		
	3) Reinforcing steel (Mill certificates)		
1.2.2	Reinforcing steel works		
	1) Sizes		
	2) Numbers		
	3) Arrangement and location	Н	
	4) Visual		
	5) Hook and lap splice		
1.2.3	Form work		
	1) Visual	Н	
	2) Dimension		
	3) Internal surface of forms		
1.2.4	Visual of surface	Н	
1.2.5	Grout and mortar finishing for foundation		
	1) Visual		
	2) Dimension (Thickness)		
	3) Filling into cavity in base plate of	Н	
	rotating machines		
	4) Light hammer test for rotating		
	machine foundation		
	5) Type of grout		
1.2.6	Concrete test		
	 Compressive strength test 	Н	
	2) Slump test ASTM C143-90		

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	Air content test		
	,		
	- ASTM C173 or 138		
1.2.7	Water filling test for concrete ponds		
	1) Visual (Dispiacement or crack of	Н	
	structure & water-proofing material)		
	2) Buoyant		
1.3	Sewer and Drainage work		
1.3.1	Materials		
	1) Sample check		
	2) Visual check	Н	
	3) Manufacturer's certificates (if		
	required)		
1.3.2	Dimension		
	Elevation and location	Н	
	2) Lines		
1.3.3	Welding (Refer to the section 7.1 welding)	Н	
1.3.4	Visual inspection of welds (Refer to the section		
	7.2 visual inspection of welds)	Н	
1.3.5	Water tightness test	Н	
1.3.6	Protective coating/wrapping	Н	
1.4	Hot-Mixed asphalt pavements	Н	
1.4.1	Subgrade		
	1) Soil conditions	Н	
	2) Non-repetitive staTPI plat load test		
	(ASTM D1196) or field CBR test		
1.4.2	Granular subbase		
	1) Materials		
	2) Layers (Thickness or list)		
	3) Non-repetitive staTPI plate load test	Н	
	4) (ASTM D 119G) or field CBR test		
	5) Finished conditions of each layer		
	6) Elevation of finished surface		

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1.4.3 Asphalt concrete 1) Materials - Aggregates - Asphalt cement or road tar 2) Density of pavement (ASTM D 1188 or ASTM D 2726) 3) Finished elevation of asphalt surface Н courses 4) Undulation of asphalt base and surface courses 5) 5) Thickness of asphalt base and surface courses 1.4.4 Prime coat 1) Material Н 2) 2) Visual 1.4.5 Tack coat 1) Material Н 2) Visual 1.5 **Concrete pavements** 1.5.1 Subgrade 1) Soil conditions Н 2) Non-repetitive staTPI plate load test (ASTM D1196) 1.5.2 Granular subbase 1) Materials 2) Layer (Thickness of list) 3) Non-repetitive staTPI plate load test Н (ASTM D1196) 4) Finished condition of each layer 5) Elevation of finished surface 1.5.3 Concrete slab 1) Materials Concrete Η Reinforcement Expansion joint filler

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	- Joint sealer		
	- Subgrade paper		
	2) Concrete test		
	3) Finished elevation & thickness of	Н	
	concrete		
	4) Undulation of surface courses5) Surface drainage		
1.6	Tank pads		
1.6.1	Materials		
1.0.1			
	Filling material Concrete		
	2) Concrete	Н	
4.6.6	1) Re-bar		
1.6.2	Sand filling compaction plate		
	Load test or field density test ASTM D1556 or	Н	
	(ASTM D2167)		
1.6.3	Dimension		
	1) Location		
	Top surfaces of sand fill		
	3) Finished surface (Slope, elevation)	Н	
	4) Foundation roundness	- ''	
	5) Foundation finished elevation		
	6) Settlement records		
1.6.4	Particle size distribution	Η	
1.6.5	Laboratory compaction	Н	
1.6.6	Embankment test results	Н	
1.7	Setting anchor bolts		
1.7.1	Material Certificates	Н	
1.7.2	Setting in concrete		
	1) Orientation		
	2) Position and location		
	3) Plumb	Н	
	4) Projection		
1.7.3	Visual check	Н	

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1.8	Acid proofing tile		
1.8.1	Material certificates	Н	
1.8.2	Concrete surface preparation		
	1) Slope	Н	
	Milling of whole concrete surface		
1.8.3	Visual check	Н	
1.8.4	Wet film thickness test	Н	
1.8.5	Spark test	Н	
1.9	Concrete basin, pit and sump (to be later)	Η	
1.10	Water and effluent trench (to be later)	Η	
1.11	Building (included H.V.A.C, plumbing F.F and	Н	
	electrical) (to be later)		

CC: Construction Contractor

TPI: Third Party Inspection

H: Hold Point; Hold on the production till TPI Inspector performs inspection and supervise the required test

If you want to use this draft for inspection and test plan, you need to fill the TPI and Owner Column based your project requirement. You may use following abbreviation for filling the columns:

W: Witness Point; Manufacture shall notify client and TPI Inspector but there is no hold on the Construction;

R: Document Review; Review means Review document, which includes of material test certificates, test reports, records and etc.

A: Approval

SW: Spot Witness; for items with spot witness contractor shall notify TPI inspector as fulfilling the monitoring;