



# Final Plan Review Checklist



Date: May 30, 2013 Location: Office of Construction

Author: Mary Baier Phone #: (860) 594-3256

## Workbook User Instructions

### Step

- 1 Open the "CRU Project Review Checklist" file and save the file to the project folder. To do this: Click on File\Save As, and save the file into the project folder and save the file as "CRU Project Review Checklist Project Number."
- 2 Open "File/Page Setup" and change Header for your project. To change header, click on File, then Page Set up. Once in the page set up, click on Header/Footer tab. Then click on, "Custom Header" and fill in your project information. To save time when modifying the "Custom Header", copy and paste your right hand side section for each tab. To add yourself as reviewer, click on Left Section and type in your name over the line.
- 3 Print options are set, you can change in the "page setup" file
- 4 Greyed out box means do not check in that phase
- 5 Comments are not printed unless you change the page setup

6 Acronyms:	CD	Conceptual Design Phase
	PD	Preliminary Design Phase
	SF	Semi-Final Design Phase
	FDFR	Final Design Final Review
	C	Constructibility Review Unit/ District Construction
	D	Designer/Consultant/Consultant Design
	S	Survey/Due Dilligence
	MO	Mention only (i.e. to designer from a construction persepective)



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*Date:* May 30, 2013      *Location:* Office of Construction  
*Author:* Mary Baier      *Phone #:* (860) 594-3256

CD	PD	SF	FPFR		Comments
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## General

**NEW CONCRETE SPECS:** Until the 6/1/12 Rev. for Sections 6.01 and M.03 are adopted into the Supplemental Specs, make sure the designer addresses other items that reference those sections. The list of other affected items is available from OOC/QA Section.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If plans are illegible or difficult to read, they should be revised to clarify proposed versus existing.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the plan topography match existing conditions?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are buildings to be demolished? Have an asbestos and lead evaluation been made? Has decontamination been done? Are there provisions for pest eradication?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On bridge replacement projects, request plans for the original bridge.	
		<input type="checkbox"/>	<input type="checkbox"/>	If plans are incomplete, request full set for review once available. Roadway, bridge plans, and M & P should be reviewed together. Request a final plan review. Request and review Specifications and Special Provisions. Request and review all permits.	
		<input type="checkbox"/>	<input type="checkbox"/>	Review any special items of work which will require a long lead time and see if contract time addresses it or not.	
		<input type="checkbox"/>	<input type="checkbox"/>	Review the detail estimate sheets and highlight those quantities that are unusually high or low.	
		<input type="checkbox"/>	<input type="checkbox"/>	Are utility durations taken into account with the overall construction schedule? Is it realistic?	
		<input type="checkbox"/>	<input type="checkbox"/>	If project disturbance includes ten acres or more on farm property, a Farmland Conversion Impact Rating Form (Form AD-1006) is to be completed in coordination with the Natural Resource Conservation Service and possible mitigation is to be identified.	

## Other

		<input type="checkbox"/>	<input type="checkbox"/>	Any salvageable materials? If so, is it noted? Ensure that maintenance or stores have a need for it.	
		<input type="checkbox"/>	<input type="checkbox"/>	If trees are to be planted at sidewalks, ensure openings are large enough for root ball or have specifications call for planting before sidewalks are installed.	
		<input type="checkbox"/>	<input type="checkbox"/>	Coatings for fencing/posts/etc to match Town/City color requests: Make sure the ASTM Type is Type B for exterior and the color is something that can be accommodated. Type B only comes in certain colors. Type A may be spec'd to meet the color requirement but it is the wrong application.	



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## Roadway

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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Any subdivisions or commercial/industrial areas not indicated? Conflicts with adjacent projects, Pending Maintenance Permits?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there sufficient geometry, horizontal and vertical to properly locate and construct project? Are baseline ties shown? Benchmarks?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do we need additional right-of-way to construct?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Existing pavement conditions - Are replacements required? Condition of concrete or bituminous. Are appropriate specifications included?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If shoulders are required to carry traffic during stage construction, are they structurally adequate or should reconstruction be required?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have existing overlays been taken into consideration? Check with Maintenance and/or District personnel.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are temporary roadways and pavements required to complete construction? If so, details are required.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Should limits of work be staged to minimize disruption to the public?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are typical sections compliant with construction and design standards?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If full depth reconstruction is being considered, what are the existing traffic volumes and speed? Speeds over 40 mph and heavy volumes require staged construction sequences.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is point of application of grade being changed? If so, have proper sections been developed?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are paving limits shown? Pavement composition? Joint sealing? Do specs address over filling joint on sealing items and cleaning and sealing joints and cracks item? Saw cutting?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is milling required? If so, what is roadway history? Are there any existing metal recessed pavement marking devices or were there any that were previously overlaid? Are there provisions for temporary patch (Piezometers, Tredles, etc...)? Limitations? Transitions? Mill curb to curb each shift.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proposed milling depth may be compromised if there are open longitudinal joints. Have pavement management review depth to limit delamination of lifts.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Will existing barriers have to be relocated?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is temporary barrier located to allow contractor access?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If staged construction, has balance of cuts and fills been done for each stage? Are temporary stockpile locations identified on the plans, if needed?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If staged construction, does the contract item list allow the contractor to choose his temporary earth retaining system? If so, TPCBC may have to be pinned to pavement if drop offs are > 2.5' and there is less than a 4' shelf behind the barrier.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cemeteries present a unique problem where older ones actually interred people outside the cemetery proper if they committed crimes, etc.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are temporary roadways and pavements required to complete construction? If so, details are required.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have old crib walls for roadway embankment support been identified? Some may contain asbestos.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are there any Historical Miles Markers, Survey Monuments, etc.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Old stage coach route? If yes, there may be graves present on the side of the road.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Minimum depth of HMA 0.5" should be not less than 2".	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If staged construction and shoulder is being used as temporary travel lane, is a temporary pavement wedge needed to correct cross slope differential, especially on a superelevated curve? (algebraic difference should not exceed 8 percent)	



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		<input type="checkbox"/>	<input type="checkbox"/>	If slope must be steeper than 26.6° (1 v to 2 h) such as behind a culvert endwall, recommend installation of 12 inches of special riprap on the slope surface placed on a separation layer of 6 inches of granular fill. Do not use geotextile as a separation layer.	
		<input type="checkbox"/>	<input type="checkbox"/>	Proposed milling depth may be compromised if there are open longitudinal joints. Have pavement management review depth to limit delamination of lifts.	
		<input type="checkbox"/>	<input type="checkbox"/>	Will existing barriers have to be relocated?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is temporary barrier located to allow contractor access?	
		<input type="checkbox"/>	<input type="checkbox"/>	Will the flare recommended for a guiderail system interfere with existing field conditions?	
		<input type="checkbox"/>	<input type="checkbox"/>	If staged construction, has balance of cuts and fills been done for each stage? Are temporary stockpile locations identified on the plans, if needed?	



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## Utilities

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are Public Utilities present w/ in the limits of the Project?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have Utilities been notified of the project?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have Utilities reviewed the plans?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are existing utilities as shown on plans?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are any underground utilities shown/ not shown? Will they affect construction? i.e. Can they handle construction loading and vibration limits? If not, have they been addressed?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Make sure conduits shown entering handhole will physically fit in specified handhole.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are the utility relocations shown as proposed by the utility (vs. plans)? Are they compatible with staged construction?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Can temporary relocations help the construction schedule?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have test pits been performed? If yes, a test pit data table must be shown on the plan sheet. Are traffic control foundations considered?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Double-check sidewalk ramp widths and areas. Revised ADA requirement for sidewalk widths are increasing from 36" to 48". Ensure there is a minimum 36". Do grades meet ADA requirements?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is additional ROW required to accommodate relocations or aerial conflicts?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are there any OH lines attached to the Limited Access Highway Bridge? If yes, then OH facilities now must be buried underground.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Can separate utility trenches be combined into a common trench? If yes, then line assignments need to be established and agreed upon by the utilities.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are the existing utilities to be maintained during construction, temporary shut off, etc? If so, are provisions in place?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are any substations or utility appurtenances within the construction area required to be accessed during construction? If so, have provisions been included in specs?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are utility agreements required? If so, are they in place and up to date?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are relocations extensive enough to request an early order to start for utilities?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are overhead utilities in conflict with proposed construction and/or the use of construction equipment such as cranes or pile drivers? If so, should they be relocated or can they be de-energized.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are utilities adjacent to a Railroad. If yes, should they be cased? Bonded, Grounded?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If no relocations are shown, is project constructible?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If temporary supports indicated, is project constructible?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are privately owned services involved? Is there a bid item for these relocations?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Will utility work impact contaminated soil? Are provisions to perform this work in the agreement or in the State's contract?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are utility durations taken into account with the overall construction schedule? Is it realistic?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If long lead materials are needed, an early material order needs to be placed. This can only be directed by the Chief Engineer.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Contact Info up to date in the contract document?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Was there any "Notice To Contractor" that alert the contractor about any required utility special provisions?	

This checklist is intended as an aid for inspectors and is not a required project document.

All action items on this list may not be applicable to individual projects but should be contemplated prior to work being done.



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## Environmental

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If next to a class A watershed who has authority (DEP, regional water, etc)?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are permits required?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are copies of the permits available for District review?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are there potential areas off site that could affect project work? Gas Stations, landfills, etc.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If contamination exists on the site, have the proper type and quantity of borings and pump tests been performed?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is it anticipated a Health and Safety Plan is necessary?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If contaminated soil, are there provisions for handling/treating?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do utility relocations affect the permit? How?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do the permits cover all work - Temporary and permanent?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If the work is located adjacent to a residential area or occupied building, provisions may be required to minimize the impact of noise producing activities, such as restricted work hours or temporary noise barriers.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is Waste Stockpile Area identified on plans? An existing paved area is preferred.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Draft Permit Plates reviewed by District?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Did an Environmental Meeting take place?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is a stormwater discharge permit required? >20 acre disturbance? In 2012 >10 acre disturbance.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there sufficient room for a sedimentation basin?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Permit timeline allow sufficient time for plantings in the Mitigation Area?	

**NOTE:** The abbreviation "C.J.L." stands for Coastal Jurisdiction Line. Any construction work in the vicinity of this line needs to be permitted by DEEP's Office of Long Island Sound Programs.



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## Drainage

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is sheeting or shoring necessary to protect roadway? If so, an item will be required.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are there provisions for temporary paving (before opening the road to traffic and after installation of drainage pipe)?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Box culverts should NOT be set level but at a minimum 1% grade.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Box culvert installations during stage construction need extra space to ensure connection at stage limit can be accomplished without compromising previous work.	
		<input type="checkbox"/>	<input type="checkbox"/>	Does contract call for handling water if a stream or river is involved? If so, is pertinent flow information shown on the plans (mean and flood)?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is there rock in trench? Will blasting be required or allowed?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are special structures required because of pipe size or number of pipes?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are heavy duty lock down grates specified for major arteries? Are details shown?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are catch basins, manholes, and utility grates installed to meet the final grade elevation? If not, and final paving will be done after the winter, ensure that sufficient item quantity for resetting catch basins and manholes (install manhole risers is preferred) is provided.	
		<input type="checkbox"/>	<input type="checkbox"/>	Any pipe with a diameter 36" or greater will need an oversized catch basin; go from a standard Type C to a Type I or II.	
		<input type="checkbox"/>	<input type="checkbox"/>	If structures are to be reset lower, is there sufficient room above piping to achieve?	
	<input type="checkbox"/>		<input type="checkbox"/>	Are pipe collars included in contract for piping installed in stages?	
	<input type="checkbox"/>		<input type="checkbox"/>	Are existing systems plugged and if so, are they to be cleaned?	
			<input type="checkbox"/>	Are existing structures to remain or be reset in good shape? i.e.: frames, grates, walls.	
			<input type="checkbox"/>	Are water conditions (i.e.: tidal) indicated or implied?	
			<input type="checkbox"/>	If Tidal outfall, is a check valve detailed?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are all existing structures shown? Are they in good shape?	
		<input type="checkbox"/>	<input type="checkbox"/>	Cross sections should show proposed and existing drainage.	
		<input type="checkbox"/>	<input type="checkbox"/>	If slope must be steeper than 26.6° (1 v to 2 h) such as behind a culvert endwall, recommend installation of 12 inches of special riprap on the slope surface placed on a separation layer of 6 inches of granular fill. Do not use geotextile as a separation layer.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CB's may have a 2' sump if there is less than 3 CB's in a system. If there are 3 or more a 4' is required.	



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## Structures

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are as built of existing structures available and referenced in the specs or contract drawings?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If temporary structures are required are design criteria provided?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is an index sheet included, required for multiple structure projects?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If existing structures are nearby, are they on timber mats? This is prevalent along the shoreline.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is transition roadway to bridge sufficient?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have provisions been made to maintain navigational lighting during construction?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If bridge is to be closed, are there enough safety barriers and protection in place? Will it still provide contractor access?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are existing utilities under the structure or in parapets? If so, how are they maintained throughout the contract period? Are items provided to maintain them?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Note presence of incident management conduit or signs.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is all previous repair work noted on the plans or as-built?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Can the structure(s) handle the load (3000+ tons) of the load transfer device or paving train?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the lightweight concrete special provision talk about plastic weight before and after pumping?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If stage construction, are rebar splices needed and specified how to achieve?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For Embankment Wall, installation shall call for an "unreinforced leveling pad" of dimensions 6" X 12". Contract shall include basis of payment to include the cost of the concrete leveling pad.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the contract require an erection sequence? Attention should be given to structures with curved girders or tubs, and skewed abutments for differential deflection and rotation.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For painting projects will containment cause vertical clearance or weight issues(i.e.load restrictions)?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are there any railroad/Coast Guard requirements? Are they indicated and is enough contract time allowed for these constraints?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is minimum vertical clearance shown on the plans? For MNRR Elect. Lines?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Access to the site. Are there vertical clearance issues that would impede equipment mobilization also check any road sags vertical clearance may be fine but lengthwise a trailer might not be able to fit.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If staged construction, shoulder being used as temp travel lane and in proximity to existing (or proposed) structure, is there sufficient road runoff clearance or should the structure be protected? (LRFD requires structures within 30 feet of end of road to withstand 400 kip load or be protected from impact)	

## Box Culverts

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Box culverts should NOT be set level but at a minimum 1% grade.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Box culvert installations during stage construction need extra space to ensure connection at stage limit can be accomplished without compromising previous work.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For box culvert installations, the construction sequence should be from outlet to inlet.	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If streambed material is to be placed inside box culvert, are baffles needed for retention?	





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<b>Prestressed/Post Tensioned</b>					
		<input type="checkbox"/>	<input type="checkbox"/>	If structure is prestressed, are units in good condition? Are the post tensioning nuts loose?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are there cracks in the pavement? Sealed? Indicator of loss of Post Tensioning Strands.	
		<input type="checkbox"/>	<input type="checkbox"/>	Rust on underside of structure at the joints between units may indicate frozen post tensioning strands.	
<b>Substructure</b>					
		<input type="checkbox"/>	<input type="checkbox"/>	Has substructure been examined for scour? Will Sheet Piling be left in place?	
		<input type="checkbox"/>	<input type="checkbox"/>	Hydrologic data included for structures over a waterway?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are piers and abutments in sound condition? Are there repair details indicated? (class's repair, partial depth patch, etc.)	
		<input type="checkbox"/>	<input type="checkbox"/>	Is sufficient boring data available? Were borings taken at the proposed locations for temporary/permanent sheeting? Piles?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are abutment construction joint details constructible? Are they through a bearing pad or right at the face of one?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is a backfilling sequence needed on abutments or wing walls to prevent "overturn" condition?	
		<input type="checkbox"/>	<input type="checkbox"/>	Ensure that when cofferdam and pumping is an item in the contract, structure excavation is also an item. Is underwater (tremie) concrete required?	
		<input type="checkbox"/>	<input type="checkbox"/>	If cofferdam required, is size and location shown on the plans and allowed by permit?	
		<input type="checkbox"/>	<input type="checkbox"/>	Which direction are the piles facing? Weakside? This will create movement of the substructure during construction activities.	
		<input type="checkbox"/>	<input type="checkbox"/>	Is damp proofing of existing structures noted on plans? Does it include a method for cleaning prior to application?	
<b>Superstructure</b>					
		<input type="checkbox"/>	<input type="checkbox"/>	Are bearings to remain? If so, are they in good condition? If not, is there a suggested jacking procedure along with associated quantities? Is jacking acceptable under live load? If yes, are	
		<input type="checkbox"/>	<input type="checkbox"/>	Are bearing pads sound or do they display deterioration or cracking? If so, are repair procedures in place? Access available for elevated structures?	
		<input type="checkbox"/>	<input type="checkbox"/>	Have all structures been evaluated for superstructure replacement vs. painting? Prestressed concrete vs. steel beams?	
		<input type="checkbox"/>	<input type="checkbox"/>	Underside of deck, are map cracking, efflorescence, or chlorides visible?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are pop-outs evident on underside of deck? Are repair procedures in place?	
		<input type="checkbox"/>	<input type="checkbox"/>	Condition of deck surface - is it overlaid? If so, type known?	
		<input type="checkbox"/>	<input type="checkbox"/>	If deck is exposed, what is the condition? Are partial or full depth patches required? Are specs in place? Check removal procedures.	
		<input type="checkbox"/>	<input type="checkbox"/>	If stage construction, will temporary supports be required? If so, is a support concept noted on the plans and criteria provided for existing and new structure?	
		<input type="checkbox"/>	<input type="checkbox"/>	Type of joints/headers can they be constructed to eliminate "bumps"? Recommend possible solutions.	
		<input type="checkbox"/>	<input type="checkbox"/>	How is wearing surface to be removed? Item provided?	
		<input type="checkbox"/>	<input type="checkbox"/>	Does deck have membrane waterproofing? If so, is type known?	
		<input type="checkbox"/>	<input type="checkbox"/>	If possible, new bridge decks on existing roadways should be raised to meet the new profile created by the overlay.	
		<input type="checkbox"/>	<input type="checkbox"/>	Review the ratio of the flanges to webs on seismic retrofits. AISC mandates a minimum 3/8" web thickness. Even this is too thin, as with rolled sections the web will kink during processing.	
		<input type="checkbox"/>	<input type="checkbox"/>	Review the pour sequence for a multi-span structure. Is it achievable?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are closure pours indicated?	
		<input type="checkbox"/>	<input type="checkbox"/>	If steel bridge built on skew, ensure there is enough room at bearings to torque the bolts.	



# Final Plan Review Checklist



CD	PD	SF	FPR		Comments
		<input type="checkbox"/>	<input type="checkbox"/>	If temporary structure mounted barrier is called for on the existing bridge, can the barrier be bolted through the deck without interfering with the beams below?	
		<input type="checkbox"/>	<input type="checkbox"/>	Make sure all areas under bridge where concrete haunches are to be removed are protected and correct quantities included in haunch removal item. i.e. over parking lots, sidewalks, etc., not just over roadways.	
		<input type="checkbox"/>	<input type="checkbox"/>	Are the temperature restrictions for the installation of bearings reasonable? Do the special provisions address installation outside of these tolerances?	
		<input type="checkbox"/>	<input type="checkbox"/>	All fracture critical members (FCM) should be identified with requirements for fabrication.	
		<input type="checkbox"/>	<input type="checkbox"/>	Will containment cause height restrictions? Waterway, roadway or railway?	
		<input type="checkbox"/>	<input type="checkbox"/>	Condition of paint- Adhesion and Toxicity tests must be performed. Are current containment, cleaning, and disposal specs in place (revisions dated 2013)?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are painting specs current and complete? Problems noted environmental or access?	
		<input type="checkbox"/>	<input type="checkbox"/>	Coatings for fencing/posts/etc to match Town/City color requests: Make sure the ASTM Type is Type B for exterior and the color is something that can be accommodated. Type B only comes in certain colors. Type A may be spec'd to meet the color requirement but it is the wrong application.	
		<input type="checkbox"/>	<input type="checkbox"/>	If span is moveable, can stage construction work?	
		<input type="checkbox"/>	<input type="checkbox"/>	Fire Suppression Standpipes must be no more than 30-36" off the ground with a 30 degree elbow.	
		<input type="checkbox"/>	<input type="checkbox"/>	Are there provisions to maintain lighting on and under the structure? Provisions for temporary lighting?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are deck grades given? Are deflections for each beam shown?	
		<input type="checkbox"/>	<input type="checkbox"/>	Which joint type is shown? Is it correct for skew angle of bridge? (if > 45 degrees use Silicone not Asphaltic Plug)	
		<input type="checkbox"/>	<input type="checkbox"/>	Asphaltic Plug Joints (APJ's) should not be used if grade exceeds 4% and if within 150 feet of an intersection	
		<input type="checkbox"/>	<input type="checkbox"/>	If Asphaltic Plug Joints (APJ's) are proposed, has the correct special provision been included (method of measure = cubic feet not linear feet)?	
		<input type="checkbox"/>	<input type="checkbox"/>	For APJ's, has the designer included a table of bridge deck expansion joint thermal movement ranges?	
		<input type="checkbox"/>	<input type="checkbox"/>	For APJ's, Crafcro is no longer on approved products list; asphalt removal should be 3' either side of joint; contractor to verify field conditions as to joint measurements - make sure addressed in either Construction Staking or in APJ item	
		<input type="checkbox"/>	<input type="checkbox"/>	If 2 shear studs are detailed, if a flange is wide should 3 studs be installed? Any flange greater than 10" may accommodate up to 3 studs at 4x diameter o.c. spacing.	
		<input type="checkbox"/>	<input type="checkbox"/>	Are the welding notes clear and concise? Is additional information needed? Location or a diagram?	

## Cathodic Protection

		<input type="checkbox"/>	<input type="checkbox"/>	Is Cathodic Protection an option for a structure after repairs?	
		<input type="checkbox"/>	<input type="checkbox"/>	Grout should be a high early to accommodate Limits of Operations requirements.	
		<input type="checkbox"/>	<input type="checkbox"/>	In lieu of strips a wire mesh system might make a quicker installation	

## Membrane Waterproofing

		<input type="checkbox"/>	<input type="checkbox"/>	If spray-applied membrane is specified, advise designer against for following reasons: highly flammable, deck must be sandblasted prior to application, cure time is long, VOC's are high (respirators may be required), material sticks to paving train tires	
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# Final Plan Review Checklist



*Date:* May 30, 2013      *Location:* Office of Construction  
*Author:* Mary Baier      *Phone #:* (860) 594-3256

CD	PD	SF	FPFR		Comments
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## Maintenance

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For stage construction, are stages reasonable and constructible?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Load transfer devices are to be used for limited access projects with total amount of paving over 3000 tons. Can the roadway and/or structures handle the load of this piece of equipment, the paving train?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alternate sequencing with potential for detours?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	In stage construction, are necessary items in place (ie: barrier, delineators, impact attenuators; dowel bar splicers, etc., if needed)?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has limitation of operations been checked?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Will ramps have to be closed?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Traffic Management Plan required? If yes see TMP stand alone check list	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are items quantities reasonable for the M&P of T items, police (local and state)?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Separate plan sheets for traffic plans?	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If staged construction and shoulder is being used as temporary travel lane, is a temporary pavement wedge needed to correct cross slope differential, especially on a superelevated curve? (algebraic difference should not exceed 8 percent)	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If staged construction, shoulder being used as temp travel lane and in proximity to existing (or proposed) structure, is there sufficient road runoff clearance or should the structure be protected? (LRFD requires structures within 30 feet of edge of road to withstand 400 kip load or be protected from impact)	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If plans call for Temporary Pavement Marking Tape (especially on interstates), question whether painted markings could be used.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On milling and paving projects, review whether final pavement markings call for groove. Recommend that temporary marks be painted longer than the proposed groove on each end.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On limited access highways, if the item Type D Portable Impact Attenuation System (crash truck) is not listed on the estimate, ask whether it should be included.	

## Detour

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Determine if there are any other projects that may be in construction along the detour route.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Determine how pedestrians will be accommodated and if a signed pedestrian detour will be required.	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are detour agreements in place if detour uses town roads?	



# Final Plan Review Checklist



*Date:* May 30, 2013      *Location:* Office of Construction  
*Author:* Mary Baier      *Phone #:* (860) 594-3256

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## Illumination and Signals

NEW CONCRETE SPECS: Until the 6/1/12 Rev. for Sections 6.01 and M.03 are adopted into the Supplemental Specs, make sure the designer addresses other items that reference those sections. The list of other affected items is available from OOC/QA Section.

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have the control junctions been identified?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have foundation locations been checked for ROW infringements?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Should test pits be performed to rule out underground interference?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is illumination (existing) to be maintained during construction?	
		<input type="checkbox"/>	<input type="checkbox"/>	Have detours been checked for illumination?	
		<input type="checkbox"/>	<input type="checkbox"/>	Check for conflicts with existing/proposed drainage.	
		<input type="checkbox"/>	<input type="checkbox"/>	Are there obstructions for sign locations?	
		<input type="checkbox"/>	<input type="checkbox"/>	Double-check sidewalk ramp widths and areas. Revised ADA requirement for sidewalk widths are increasing from 36" to 48". Ensure there is a minimum 36". Do grades meet ADA requirements?	
			<input type="checkbox"/>	Does temporary illumination also include under bridge luminaries?	
			<input type="checkbox"/>	Is selective clearing necessary for lights, signals, etc. to be visible?	



# Final Plan Review Checklist



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## Rails

		<input type="checkbox"/>	<input type="checkbox"/>	Are rail switches to be new? Specifications should clearly indicate this.	
		<input type="checkbox"/>	<input type="checkbox"/>	Specifications and contract do not follow the format as used in heavy and highway construction, therefore, all items of work must be clearly identified in the specifications and must include all testing criteria, performance and acceptance criteria, submissions, methods of measurement, and basis of payment.	
		<input type="checkbox"/>	<input type="checkbox"/>	Are buildings to be demolished? Have an asbestos and lead evaluation been made? Has decontamination been done? Are there provisions for pest eradication?	
		<input type="checkbox"/>	<input type="checkbox"/>	Check that all applicable codes and code requirements are listed.	
		<input type="checkbox"/>	<input type="checkbox"/>	Has environmental site assessment been performed? Are applicable items and specifications included?	
		<input type="checkbox"/>	<input type="checkbox"/>	Shop drawing submittals, if known (either by us or designer) require a long lead time, a note should be placed in contract indicating such.	
		<input type="checkbox"/>	<input type="checkbox"/>	Specifications should notify contractors that (if applicable) Amtrak safety training is required for all on site personnel.	
		<input type="checkbox"/>	<input type="checkbox"/>	Railroad protection or flagger item included in contract if needed. Has a force account with the Railroad been processed?	
		<input type="checkbox"/>	<input type="checkbox"/>	Check that all permits and railroad agreements are in place and included in the specifications.	



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## Railroad Station

NEW CONCRETE SPECS: Until the 6/1/12 Rev. for Sections 6.01 and M.03 are adopted into the Supplemental Specs, make sure the designer addresses other items that reference those sections. The list of other affected items is available from OOC/QA Section.

		<input type="checkbox"/>	<input type="checkbox"/>	Pedestrian Bridge must be constructed so as to be lifted as a single unit due to track shutdown limitations.	
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# Final Plan Review Checklist



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## Survey

		<input type="checkbox"/>	<input type="checkbox"/>	Are control points noted from project limits to project limits?	
		<input type="checkbox"/>	<input type="checkbox"/>	Control points should be on both sides of a structure.	
		<input type="checkbox"/>	<input type="checkbox"/>	Retaining walls need bottom of footing and top of wall elevations at a minimum. Aka "Working Points"	
		<input type="checkbox"/>	<input type="checkbox"/>	Is the Current Construction Staking Special Provision Included?	
		<input type="checkbox"/>	<input type="checkbox"/>	Item for Construction Staking?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the proper vertical, horizontal, and geometry information in order to adequately locate and construct the project?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If aerial survey was used, has it been proofed with ground survey?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are the CT grid coordinates given?	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Datum Year indicated?	
		<input type="checkbox"/>	<input type="checkbox"/>	Check with District Surveys to see if they need monuments installed/Reset on the project.	



# Final Plan Review Checklist



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## Vertical Construction

NEW CONCRETE SPECS: Until the 6/1/12 Rev. for Sections 6.01 and M.03 are adopted into the Supplemental Specs, make sure the designer addresses other items that reference those sections. The list of other affected items is available from OOC/QA Section.

		<input type="checkbox"/>	<input type="checkbox"/>	Are one-piece insulated wall panels shown? These are more efficient to install.	
		<input type="checkbox"/>	<input type="checkbox"/>	Is the Construction Staking item specific enough for the project?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is it clear which building components require grounding?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is it possible that heavy objects / equipment will be mounted on interior walls? These should be constructed of Concrete Masonry Units.	
		<input type="checkbox"/>	<input type="checkbox"/>	Is heavy duty door hardware required?	
		<input type="checkbox"/>	<input type="checkbox"/>	Does the space allow for adequate equipment movement? Avoid horizontal and vertical conflicts? (Railings, pinch points, and overhead lighting and utility conduits).	
		<input type="checkbox"/>	<input type="checkbox"/>	Are fire extinguisher locations and mounting details shown clearly?	
		<input type="checkbox"/>	<input type="checkbox"/>	Does the HVAC system require an independent inspection of operation and sequencing of equipment?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are awnings provided at entrance doors?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is the height of safety rails consistent?	
		<input type="checkbox"/>	<input type="checkbox"/>	Do all proposed data and communication lines and outlets consider the future occupant and future uses?	
		<input type="checkbox"/>	<input type="checkbox"/>	Do the door functions consider the room use? Is there an overall Keying scheme and does it consider future needs?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is the roof access reasonable for the intended use and is it located in an unobstructed area?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is a secure material storage pad shown for compressed gases, etc.?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are there "pinch points" between railings, stairs, and equipment movement areas?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is safety striping included in the plans for clearance areas, walkways and other hazards?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are interior railings painted safety yellow?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are personnel offices and material storage rooms adequately sized?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are interior utility conduits placed so that they do not obstruct the movement of personnel, vehicles or equipment?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is all signage incorporated into the contract? i.e. building number, name, safety items, hand washes, fire extinguishers, emergency exit only, etc.	
		<input type="checkbox"/>	<input type="checkbox"/>	Is the distance from work areas to restrooms reasonable?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is access to all future building maintenance operations and equipment considered?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is an overall building and equipment maintenance plan included in the contract for the end user?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is the facility's end user fully involved in the design process and providing comments?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are HVAC duct chases shown going through a firewall? Not allowed by code.	
		<input type="checkbox"/>	<input type="checkbox"/>	Include test pits in the contract to confirm utility locations and confirm soil types.	
		<input type="checkbox"/>	<input type="checkbox"/>	Plans and specs should be clear what safety features (i.e. lighting, fire alarms, sprinklers, 1-hour fire rating) are needed in temporary construction.	
		<input type="checkbox"/>	<input type="checkbox"/>	Is exterior emergency lighting required?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is all infrastructure for future equipment / building use being installed?	
		<input type="checkbox"/>	<input type="checkbox"/>	Do exposed conduits use stickers for identification?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is entire access to loading docks adequate for the proposed design vehicle?	
		<input type="checkbox"/>	<input type="checkbox"/>	Maintenance Facility: Stormwater discharge points outfall for maintenance stations must be 250' or greater from the out buildings.	
		<input type="checkbox"/>	<input type="checkbox"/>	HVAC - Do the flows for balances make sense? Are they achievable?	





# Final Plan Review Checklist



Date: May 30, 2013

Location: Office of Construction

Author: Mary Baier

Phone #: (860) 594-3256

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## Bicycle and Pedestrian Considerations

<input type="checkbox"/>	<input type="checkbox"/>	Does the Design Report include the Bike/Pedestrian Checklist?	
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*Date:* May 30, 2013      *Location:* Office of Construction  
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## Traffic Management Plan

		<input type="checkbox"/>	<input type="checkbox"/>	Project background	
		<input type="checkbox"/>	<input type="checkbox"/>	Project type	
		<input type="checkbox"/>	<input type="checkbox"/>	Project area/corridor	
		<input type="checkbox"/>	<input type="checkbox"/>	Project goals and constraints	
		<input type="checkbox"/>	<input type="checkbox"/>	Proposed construction phasing/staging	
		<input type="checkbox"/>	<input type="checkbox"/>	Related projects	
		<input type="checkbox"/>	<input type="checkbox"/>	List of Stakeholders	
		<input type="checkbox"/>	<input type="checkbox"/>	Approval contact(s)	
		<input type="checkbox"/>	<input type="checkbox"/>	TMP implementation task leaders (e.g. public information liason, incident management coordinator, etc.)	
		<input type="checkbox"/>	<input type="checkbox"/>	TMP monitors	
		<input type="checkbox"/>	<input type="checkbox"/>	Emergency contacts listing	
		<input type="checkbox"/>	<input type="checkbox"/>	Data collections and modeling approach	
		<input type="checkbox"/>	<input type="checkbox"/>	Existing roadway characteristics (history, roadway classification, number of lanes, geometrics, urban/surburban/rail)	
		<input type="checkbox"/>	<input type="checkbox"/>	Existing and historical traffic data (volumes, speed, capacity, volume to capacity ratio, percent trucks, queue length, peak traffic hours)	
		<input type="checkbox"/>	<input type="checkbox"/>	Existing traffic operations (signal timing, traffic controls)	
		<input type="checkbox"/>	<input type="checkbox"/>	Incident and crash data listed w/ sources	
		<input type="checkbox"/>	<input type="checkbox"/>	Are Local community and business concerns/issues addressed?	
		<input type="checkbox"/>	<input type="checkbox"/>	Traffic growth rates (for future construction dates)	
		<input type="checkbox"/>	<input type="checkbox"/>	Traffic predictions during construction (volume, delay, queue)	
		<input type="checkbox"/>	<input type="checkbox"/>	Qualitative summary of anticipated work zone impacts	
		<input type="checkbox"/>	<input type="checkbox"/>	Impacts assessment of alternative project design and management strategies (in conjunction with each other): (1) Construction approach/phasing/staging strategies, (2) Work Zone impacts management strategies	

## Traffic Analysis Strategies

		<input type="checkbox"/>	<input type="checkbox"/>	Analysis results: Traffic (volume, capacity, delay, queue, noise,% of Diversion w/ applicable queue)	
		<input type="checkbox"/>	<input type="checkbox"/>	Adequacy of alternates/detour routes	
		<input type="checkbox"/>	<input type="checkbox"/>	Business/community impact	
		<input type="checkbox"/>	<input type="checkbox"/>	Seasonal weather contingencies	
		<input type="checkbox"/>	<input type="checkbox"/>	Cost effectiveness/evaluation of alternatives	
		<input type="checkbox"/>	<input type="checkbox"/>	Selected alternative approach/phasing/staging strategy	

## Temporary Traffic Control (TTC) Strategies

		<input type="checkbox"/>	<input type="checkbox"/>	Control strategies	
		<input type="checkbox"/>	<input type="checkbox"/>	List of allowable Traffic control devices	
		<input type="checkbox"/>	<input type="checkbox"/>	Anticipated Project coordination, w/ projects/contractors	



# Final Plan Review Checklist



## Public Information (PI)

<input type="checkbox"/>	<input type="checkbox"/>	Public awareness strategies (Public Meetings, Brochures, Newspaper Ads)	
<input type="checkbox"/>	<input type="checkbox"/>	Motorist information strategies (VMS, CMS)	
<input type="checkbox"/>	<input type="checkbox"/>	Dedicated Website	
<input type="checkbox"/>	<input type="checkbox"/>	Site Specific Construction Signs with a Hotline	

## Transportation Operations (TO)

<input type="checkbox"/>	<input type="checkbox"/>	Work Zone safety management strategies	
<input type="checkbox"/>	<input type="checkbox"/>	Will Connecticut Highway Assistance Motorist Patrol (C.H.A.M.P.) be utilized during active operations?	
<input type="checkbox"/>	<input type="checkbox"/>	Traffic/incident management (Signal timing adjustment on parallel artery?)	
<input type="checkbox"/>	<input type="checkbox"/>	Speed enforcement strategies, smart boards, DPS, etc.	
<input type="checkbox"/>	<input type="checkbox"/>	Monitoring requirements: Is an inspection form included?	
<input type="checkbox"/>	<input type="checkbox"/>	Evaluation report of successes and failures of TMP-List-w/division of responsibility	
<input type="checkbox"/>	<input type="checkbox"/>	Contractor's contingency plan	
<input type="checkbox"/>	<input type="checkbox"/>	Standby equipment or personnel	
<input type="checkbox"/>	<input type="checkbox"/>	Estimated costs	



# Final Plan Review Checklist



*Date:* May 30, 2013      *Location:* Office of Construction  
*Author:* Mary Baier      *Phone #:* (860) 594-3256

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## Overhead Signs

NEW CONCRETE SPECS: Until the 6/1/12 Rev. for Sections 6.01 and M.03 are adopted into the Supplemental Specs, make sure the designer addresses other items that reference those sections. The list of other affected items is available from OOC/QA Section.

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scope of project to replace or new installation?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are existing structures coated in lead based paint? Do the plans provide a coating chart?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is there a LHPP provided under the contract?	
		<input type="checkbox"/>	<input type="checkbox"/>	Do plans or specs noted galvanized steel to be used? Bolts, nuts, washers, included?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is an offset provided from the edge of pavement or guiderail?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is there a conflict with utility poles?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are there minimum clear distances from bottom of sign to pavement?	
		<input type="checkbox"/>	<input type="checkbox"/>	Do the foundations note class of concrete?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are there sight lines from the proposed location based on existing commercial signage and other signage?	
		<input type="checkbox"/>	<input type="checkbox"/>	Are there underground conflicts with utilities, prive services, i.e. lawn sprinklers, sign illumination, etc.	



# Final Plan Review Checklist



*Date:* June 20, 2013      *Location:* Project Concept  
*Author:* Monique Burns      *Phone #:* (860) 594-3292

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## Guiderail

		<input type="checkbox"/>	<input type="checkbox"/>	Are leading turn down end anchors installed outside the clear zone for R-B 350 guiderail and Modified R-I?	
		<input type="checkbox"/>	<input type="checkbox"/>	Guiderail should not be installed on slopes steeper than 10:1. Note: Inside and outside shy line flare rates shall be applied as required.	
		<input type="checkbox"/>	<input type="checkbox"/>	R-B 350 guiderail with leading end radii down the intersecting road and/or driveway: Use Type II anchor due to potential for limited ROW.	
		<input type="checkbox"/>	<input type="checkbox"/>	Radius rail, when less than 150' needs to be shop fabricated.	
		<input type="checkbox"/>	<input type="checkbox"/>	Would a leading end Impact Attenuation System (IAS) either flared, tangential or median/gore type be better due to limited ROW?	
		<input type="checkbox"/>	<input type="checkbox"/>	Is curbing removal and clear run out behind Impact Attenuation System (IAS) needed? Refer to Grading Standard Sheet Nos. HW 1800 01, 02, 03	
		<input type="checkbox"/>	<input type="checkbox"/>	Ensure trailing end anchors are outside clear zone and measured from double yellow line on dual direction roads.	
		<input type="checkbox"/>	<input type="checkbox"/>	System 6 should not be used to protect utility poles. When the distance from back of post to utility pole is within 2'-8", use R-B 350 System 5A. Length of system 5 and 5A at utility poles shall be 25' centered on the pole.	
		<input type="checkbox"/>	<input type="checkbox"/>	Is the latest edition of the 'Repair Guiderail' special provision included in the project documents?	
		<input type="checkbox"/>	<input type="checkbox"/>	When converting metal beam rail types to R-B 350 type, is a reset item included if the existing rail is set behind existing curbing?	
		<input type="checkbox"/>	<input type="checkbox"/>	Weathering steel elements and posts shouldn't be used on galvanized elements.	
		<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Check for 2' of 12:1 shelf behind all guiderail posts or extra-long posts (7'-6" is CTDOT standard long post) are provided.</li> </ul>	
		<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Review projects for potential conflict with driving guiderail posts and underground ledge. If there is a potential for conflict, is a special provision for payment of "Drilling Hole for Guiderail Posts" included?</li> </ul>	
		<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Ensure the minimum length of W-beam guiderail types, not including end anchors, is 62'-6".</li> </ul>	
		<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Review runs of rail for need to select clearing and thinning. Note: Over time, trees that were once outside the deflection of the rail may now be within the deflection distance of the rail. Consider including this item so that trees less than 4" in diameter within our ROW can be removed behind the rail.</li> </ul>	
		<input type="checkbox"/>	<input type="checkbox"/>	Review project limits. Ensure that small runs of rail (200' or less), that are outside the project limits and are sub-standard do not remain. Note: Sub-standard systems may include, two cable or strong post three-cable guiderail down a local road, R-I with rail splice at post on a high speed facility, leading ends inside the clear zone, unattached or improperly strengthened guiderail transitions to bridges etc.	