PARKING LOT PRE-CONSTRUCTION CHECKLIST







INTRODUCTION

This **Parking Lot Pre-Construction Checklist** was developed by the American Society of Concrete Contractors (ASCC) and the National Ready Mixed Concrete Association (NRMCA) to identify details of parking lot construction prior to the start of placement so that all impacted parties are aware of the issues related to the construction specification, equipment and schedules, responsible persons and jobsite safety. The presumption is that on larger projects the concrete construction team has been through a preconstruction conference and has addressed the pertinent items in the **NRMCA/ASCC Checklist for Concrete Pre-Construction Conference** and those items are excluded from this document. This document may be included in a broader preconstruction conference agenda.

This Checklist is not intended to be all inclusive of the items that need to be considered. Depending on a specific project, items regarding specification requirements, testing details, construction logistics and jobsite safety may need to be addressed in greater detail than outlined herein. Many of these items will be critical to the success of the project and should be discussed and agreed upon prior to the placement of concrete with appropriate notification to the owner and his representative.





Parking Lot Pre-Construction Checklist

A.

۹.	Sa	afety				
	1.	Perso	nal protective equip	ment required. Site safety	person:	
			First aid supplies			
			Providing and mair	ntaining Safety Data Shee	ets (SDSs) at the jobsite	
			Safety Inspections			
			Safety meetings			
В.	Pro	oject Ir	nformation			
	1.	Proje	ct name:			
	2.	Locat	ion:			
	3.	Proje	ct start date:			
	4.	Proje	ct completion date:			
	5.	Proje	ct participants		C	ontacts
		• Ov	vner			
		• Ar	chitect			
		• Ci	vil/Geotechnical eng	ineer		
		• Cc	onstruction manager			
		or	General Contractor			
		• Cc	ncrete contractor			
		• Cc	ncrete producer			
		• Ad	mixture supplier			
		• Cc	ncrete pumping con	tractor		
		• Te	sting laboratory			
			ACI Concrete Labo	oratory Testing Techniciar	n Grade I or II	
			Equivalent			
•	Co	ncret	e Materials and R	equired Mixture Prop	ortioning (Mix Desig	n)
J .				•	ortioning (Mix Design	'')
	1.	Conc	rete Mixtures (Mixes)		
			Mix Designations	Mix Codes	Location/Function	Approximate Volumes

2.	Mix Acceptance						
	i. Mixes approved	o Yes	o N	0			
	ii. Copies of the approved mixes to:						
	 Owner's Representative 	o Yes	o N	0			
	 Architect 	o Yes	o N	0			
	 Engineers 	o Yes	o N	0			
	 General Contractor 	o Yes	o N	0			
	 Concrete Contractor 	o Yes	o No	0			
	 Concrete Pumping Contractor 	o Yes	o No	0			
	 Concrete Finisher 	o Yes	o No	0			
	 Testing Laboratory 	o Yes	o No	0			
	 Inspection Agency 	o Yes	o No	0			
3.	Pumped Concrete	o Yes	o No	0			
4.	Target Strength (PSI)	o Yes	o N	o St	rength required	psi at ag	e
5.	Water to Cement Ratio	o Yes	o N	o W	//C Target	<u> </u>	
6.	Concrete Batch Plant						
	a. Primary Plant:		Bac	kup Pl	ant:		
	b. NRMCA Plant Certification Required	o Yes	o N	0			
	c. Inspection Requirement						
	□ Full Time						
	□ Part Time						
	■ Not Required						
7.	Other mix ingredients:						
	Mid range water reducing admixture	o \	es/	o No			
	• High range water reducing admixture	0	Yes	o No			
	 Non-chloride accelerator 	0	Yes	o No			
	 Corrosion inhibitors 	0	Yes	o No			
	Fly Ash ASTM Class C	o	Yes	o No			
	 Fly Ash ASTM Class F 	o	Yes	o No			
	GGBF Slag	o	Yes	o No			
	Silica fume	o	Yes	o No			
	 Shrinkage reduction admixture 	o	Yes	o No			
	Accelerator/Retarder	0	Yes	o No			
	• Fibers	0	Yes	o No			
	• Color	o \	es/	o No			
	Air Entrainment	o \	es/	o No	Conventional	% +/	%
					Pumped	% +/-	%

Note: Batching all ingredient materials at the plant ensures the best quality control of concrete. Jobsite modifications to a mixture must be communicated to the concrete producer and recorded.

D. Construction Process

cing Concrete:	Equipment, procedures and subcontractors. List all that apply:
a. Placement	
b. Method	
Placement and Fir	ishing
Area	Finish Sequence
Variances r	eference: Refer to the ASCC Guide for Surface Finish of Formed Concrete
Joint Layout	
a. Review/verific	ation of control/contraction, isolation, and construction joint layout plans
 Jointing P 	an provided o Yes o No
Engineere	ed Plan o Yes o No
Contracto	Supplied o Yes o No
Accepted	and approved by
	equired o Yes o No
	of reinforcement in slab
	of supporting reinforcement at specified elevation
 Termina 	tion at joints
 Load tra 	nsfer devices if required by design (e.g. dowel bars)
• •	e, and location
 Check for 	r specified alignment
. Curing and Seali	ng
 Methods 	
	eriods
 Tempera 	ture Control o Yes o No
	e evaporation control method
Other	

		Responsibility for removing curing compounds for striping/sealer Sealere Sealere					
		• Sealers					
		o Types o Locations					
	7.	Materials permitted to adjust slump					
	٠.	D. Water					
		□ Water □ Mid-range water reducer					
		☐ High-range water reducer					
		a. Procedure to be followed and limitations that apply to jobsite slump adjustment (maximum amount, subsequent mixing, sampling of the load)					
	8.	Project specification requirements for temperature					
		a. Required temperature of concrete as delivered: Max°F Min°F					
	0	b. Responsible person for requiring and approving special measures to meet concrete temperatures such as hot water, heated aggregate, cold water, ice, liquid nitrogen					
	9.	Project specification requirements for concrete delivery time					
		□ ASTM C 94					
_	0	Other					
E.	Or	dering and Scheduling Concrete					
	1.	Person(s) responsible for ordering concrete (concrete must be ordered by mixture (mix) code)					
	2.	Minimum time notice required for go/no placements					
	3.	Define large and specialty orders					
	4.	Minimum notice required for large and specialty placements					
	5.	Procedure for handling will call orders					
	6.	Procedure for handling revised orders					
	0.	Flocedure for Hariding revised orders					
	7.	Name(s) and phone number(s) of concrete producer, concrete contractor, and general contractor for last-minute cancellations					
	8.	Person on jobsite responsible for reviewing delivery ticket prior to placement					
	9. I	Regular workday hours M_F are betweenA.M. andP.M. Other					
		a. Location of placement on site					
		b. Anticipated placement sizes cubic yards					
		c. Minimum load size cubic yards					
		d. Anticipated placement rates cubic yards/hour					
		e. Approximate placements dates					
		f. Inclement weather plant capability					

	10	. Concrete delivery
		a. Directions to site
		b. Traffic restrictions at or near the jobsite o Yes o No
		Comments
		c. Restrictions on entrance to or exits from jobsite o Yes o No
		Comments
		d. Other
		Comments
	11	. Trucks:
		a. Number of trucks
		b. Type of trucks
		c. Interval Schedule (Turnaround time)
F.	Er	nvironmental Aspects
	1.	Environmentally sensitive areas around the project o Yes o No
		Comments:
	2.	Responsibility for providing a concrete wash out area at the jobsite
	3.	Responsibility for clean up of the wash out area
	4.	Are spill response kits available on site? o Yes o No
		Comments
	5.	On site emergency contact person
	6.	Responsibility for disposal of curing compounds
	7.	Other
G.	Qı	uality Control/Assurance
	1.	Accreditation requirements for laboratory
	2.	Certification requirements for testing personnel
		□ Field personnel
		□ Lab personnel
	3.	Advanced notice for scheduling testing personnel
	4.	Procedures for verification of specified requirements
		□ Batch Records
		□ Strength Tests
		□ Other

Н.

Concrete Sampling and Testing Requirements H.1 **Concrete Sampling and Testing Requirements** Sampling frequency _____ 2. Sampling location □ Point of discharge as per ASTM C94 Point of placement, if specified Comments (agreement on sampling location) 3. Tests performed on each sample (Check each test required) □ Slump Temperature □ Density (unit weight) □ Air content Compressive strength □ Flexural strength □ Other 4. Cylinder size for compressive strength test o 4x8 inch o 6x12 inch 5. Beam size for flexural strength test o Other _____ o 6x6 inch 6. Number of cylinders per sample (hardened cylinder weight must be recorded on concrete strength reports) 7. Number of beams per sample 8. Number of cylinders to be cured ______ Field _____ Lab ____ 9. At what ages are cylinders to be tested? 10. Are reserve cylinders required? o Yes o No How many? _____ 11. Frequency of yield tests and compliance checks (three-load average of unit weight) 12. Distribution of reports_____ **H.2 Test Cylinder Storage and Transportation** 1. Initial curing (up to ____hours) □ Immersed in water-controlled temperature □ Storage box-controlled temperature Exposed to environment spaces - record daily minimum and maximum temperatures

Responsibility for providing cylinder storage box ______

Note: Refer to ACI 301

3. Responsibility for maintaining temperature in storage box after molding _____

4. Responsibility for final curing as per ASTM C31

Note: Cylinders made and field-cured can be used to determine the time the structure is put in service.

		cceptance/Rejection of Fresh Concrete				
	1.	Who has the authority to reject a concrete delivery?				
	Note : A second person may be designated as having the authority for FINAL rejection o delivery.					
	2.	Criteria used to reject concrete				
		□ Slump				
		□ Air content				
		□ Unit weight				
		□ Temperature				
		□ Time limit				
		□ Other				
	3.	Are re-tests allowed before rejection? o Yes o No				
		Procedure				
l.4	Ac	cceptance Criteria for Hardened Concrete				
	1.	Review Acceptance Criteria				
		□ ACI 330				
		□ Project Specifications				
		□ Other				
	Cra	acks				
	1.	Define unacceptable cracks (see surface defects in tolerances)				
	2.	Method of repair of unacceptable cracks				
	3.	Responsibility for repair of unacceptable cracks				
	4.	Sealing (Filling) Joints o Yes o No				
		Epoxy joint filler				
		Elastomeric sealant o Yes o No				
		Timing (review product directions and ACI Guidelines)				
		Depth of filling				

Notes:	

Sketch:

The **National Ready Mixed Concrete Association (NRMCA)** is a trade association representing producers of ready mixed concrete and those companies that provide materials and support to the industry. The primary goal of NRMCA is to increase the professionalism of the industry. NRMCA provides its members with education, training, product promotion assistance, information on research and technology and representation before Congress and regulatory bodies.

The American Society of Concrete Contractors (ASCC) is a non-profit organization dedicated to enhancing the capabilities of those who build with concrete. Members of ASCC are concrete contractors, material suppliers, equipment manufacturers, and others involved in concrete and decorative concrete construction. ASCC provides a unified voice in the concrete construction industry, and offers many services including an extensive safety program, problem solving assistance, networking opportunities, and educational materials.



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