

**PRECAST CONCRETE PRODUCTS  
WVDOT DIVISION OF HIGHWAYS MCS&T DIVISION**

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**SAMPLE FABRICATION CHECKLIST**

Preliminary Verifications

NPCA (National Precast Concrete Association) Certification \_\_\_\_\_

**CONCRETE COMPONENTS**

Mix Design Lab # (if applicable): \_\_\_\_\_

Cement Source: \_\_\_\_\_

Fly Ash Source: \_\_\_\_\_

Coarse Aggregate Source 1: \_\_\_\_\_

Coarse Aggregate Source 2: \_\_\_\_\_

Cement Type: \_\_\_\_\_

Approved/Tested: \_\_\_\_\_

Fly Ash Type: \_\_\_\_\_

Approved/Tested: \_\_\_\_\_

Coarse Aggregate 1: \_\_\_\_\_

Approved/Tested: \_\_\_\_\_

Coarse Aggregate 2: \_\_\_\_\_

Approved/Tested: \_\_\_\_\_

Fine Aggregate 1: \_\_\_\_\_

Approved/Tested: \_\_\_\_\_

Fine Aggregate 2: \_\_\_\_\_

Approved/Tested: \_\_\_\_\_

Batch Water Source: \_\_\_\_\_

Approved/Tested: \_\_\_\_\_

Admixtures: \_\_\_\_\_

**STEEL COMPONENTS**

Reinforcement: Supplier(s): \_\_\_\_\_

Description: \_\_\_\_\_

Lab Number: \_\_\_\_\_

Description: \_\_\_\_\_

Lab Number: \_\_\_\_\_

Description: \_\_\_\_\_

Lab Number: \_\_\_\_\_

Inserts: Supplier(s): \_\_\_\_\_

Description: \_\_\_\_\_

Lab Number: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**SHIPLOOSE MATERIAL**

Grates: Fabricator: \_\_\_\_\_

Mill Certs.: \_\_\_\_\_ Galvanize Cert.: \_\_\_\_\_ Lab Number: \_\_\_\_\_

Mastic: Fabricator: \_\_\_\_\_

Inspected at: \_\_\_\_\_ Lab Number: \_\_\_\_\_

**SHOP DRAWING REVIEW**

Approval Date: \_\_\_\_\_ Approved By: \_\_\_\_\_

# **PRECAST CONCRETE PRODUCTS** **WVDOT DIVISION OF HIGHWAYS MCS&T DIVISION** **SAMPLE FABRICATION CHECKLIST**

## Preliminary Verifications

## POST POUR WORK

Repairs: Approved Repair Procedures:

Approved by: \_\_\_\_\_ Approval Date: \_\_\_\_\_

Repair Witnessed: \_\_\_\_\_

Comments:

[illegible]

**Sample Form Inspection (Pre-Placement of Concrete)**

<b>Product Type (s)</b>				
<b>Criteria</b>	<b>Design Dimension</b>	<b>Tolerance (±)</b>	<b>Actual Measurement</b>	<b>Within Tolerance</b>
Fill in Form Information (if applicable)				
Height of Product (ft-inch)				
Depth of form (ft-inch)				
Inside Width of form (inch)				
Outside Width of form (inch)				
Inside Length of form (inch)				
Outside Length of form (inch)				
Wall Thickness (inch)				
Forms Square and Level (√)				
Skew dimensions [if applicable (ft-inch)]				
Locations of inserts, sleeves, block outs, etc. (√)				

<b>Product Type(s)</b>		<b>Form Properly sealed at joints &amp; edges (√)</b>	
<b>Framework Constructed of metal on concrete foundation (√)</b>		<b>Form Clean &amp; Free of debris (√)</b>	
<b>Form dimensionally correct (√)</b>		<b>Release Agent applied (√)</b>	
<b>Other Information:</b>			

<b>Reinforcing Steel</b>	
<b>Reinforcing Steel (Condition)</b>	
<b>Fill in steel information (if applicable)</b>	
<b>Size &amp; Grade</b>	
<b>Location &amp; Lapping Length (√)</b>	
<b>Spacing and Clearances (√)</b>	
<b>Chairs, Spacers properly used</b>	

**Sample Concrete Placement & Curing**

<b>Quality Control Concrete Testing</b>			
<b>Concrete Truck Arrival Time</b>		<b>Concrete Truck Departure Time</b>	
<b>Concrete Temp</b>		<b>Ambient Temp, Weather Conditions</b>	
<b>Slump/Spread (inch)</b>		<b>Air Content (%)</b>	
<b>QC Tests performed per Specifications &amp; Passing</b>		<b>Number &amp; diameter (inch) of Cylinders</b>	
<b>Comments:</b>			

<b>Placement of Concrete</b>			
<b>Lift</b>	<b>Start Time</b>	<b>Completion Time</b>	<b>Vibrated (External/Internal/Both)</b>
<b>1<sup>st</sup></b>			
<b>2<sup>nd</sup></b>			
<b>3<sup>rd</sup></b>			
<b>4<sup>th</sup></b>			
<b>Placement of Concrete Completion Time</b>			
<b>Comments:</b>			

<b>Curing/Finishing of Concrete</b>	
<b>Top Surface Finished Per Specification</b>	
<b>Lifting loops/inserts accessible</b>	
<b>Product Curing Location (Inside/Outside)</b>	
<b>Product Covered &amp; Heat Applied (Time Start &amp; Time Finished)</b>	
<b>Heat Sensors Installed (√)</b>	
<b>Compressive Strength Cylinders Stored with Product under Curing/Normal Environment (√)</b>	
<b>Compressive Strength Test Conducted when curing was discontinued (√)</b>	
<b>Comments:</b>	

**Sample Concrete Post Pour Product Inspection**

<b>Product</b>	
<b>Visual Inspection for Damage (√)</b>	
<b>Notes (Size &amp; Location of cracks, spalls, honeycomb, etc.)</b>	
<b>Products in Need of Repair (√)</b>	
<b>Repair Method Approved (√)</b>	
<b>Comments:</b>	

Product Type (s)				
Criteria	Design Dimension	Tolerance (±)	Actual Measurement	Within Tolerance
Fill in Form Information (if applicable)				
Height of Product (ft-inch)				
Inside Width of product (inch)				
Outside Width of product (inch)				
Inside Length of product (inch)				
Outside Length of product (inch)				
Wall Thickness (inch)				
Product Square and Level (√)				
Skew dimensions [if applicable (ft-inch)]				
Locations of inserts, sleeves, block outs, etc. (√)				

<b>Product</b>	
<b>Dimensional Tolerances Met? (yes or no)</b>	
<b>Heights (yes or no)</b>	
<b>Widths (yes or no)</b>	
<b>Depths (yes or no)</b>	
<b>Wall Thickness(es) (yes or no)</b>	
<b>Inserts, sleeves, lifting points, etc. (yes or no)</b>	
<b>All Concrete Finishes per specification (yes or no)</b>	
<b>Product properly transported (yes or no)</b>	
<b>Product stored on proper dunnage (yes or no)</b>	
<b>Design Shipping Strength met (yes or no)</b>	
<b>Repairs Satisfactory (yes or no)</b>	
<b>Product Stamped for Final Inspection (yes or no)</b>	
<b>Comments:</b>	

**Sample Inspection Sheet**

Inspection Date \_\_\_\_\_ QC Personnel \_\_\_\_\_ QC Signature \_\_\_\_\_

Fabricator \_\_\_\_\_ Location \_\_\_\_\_

Project Name \_\_\_\_\_ WV State Project # \_\_\_\_\_ Federal Project # \_\_\_\_\_

Authorization # \_\_\_\_\_ Inspection done by \_\_\_\_\_  
Steel Reinforcement

Reinforcement Supplier \_\_\_\_\_

Description \_\_\_\_\_ Approved Lab # \_\_\_\_\_

Description \_\_\_\_\_ Approved Lab # \_\_\_\_\_

Description \_\_\_\_\_ Approved Lab # \_\_\_\_\_

Product Description	Quantity	Date Cast	Slump/Spread (inch)	Air Content (%)	Design Strength (psi)	Cylinder Breaks (psi)	Date Of Break	Absorption (%)
Type "D" inlet								
Type "G" inlet								
36-inch Manhole (base, riser, top)								
48-inch Manhole (base, riser, top)								
10'0"x 12'0" Box Culvert								NA
Lagging 8"x24"x54"								NA
Type A Reinforced Panel								NA
6'0" Coping								NA
24-inch Wing wall								