S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	10-15-12
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Wall footing A(+6')/AA to A4(+6')/AA and elevator pit base slab	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☒	**Arrived at Site:**	1:00pm
		Left Site:	6:20pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete/stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Main Concourse Level Foundation Plan – Quad A	10-26-12	S2.21A	3
Typical Concrete Foundations Sections and Details	10-26-12	S3.00	1
Concrete Foundation Sections and Details	10-26-12	S3.02	2
Barker Steel	10-2-12	RO1	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi min specified/4000 psi used
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Conveyor with 20' trunk
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	Sump hole
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-1	←*refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☒	No ☐	☐	Trowel/bull-float
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

N/O = Not Observed

Notes: Field tests performed indicated concrete tested was within project specifications; however, entrained air was on the low side of the acceptable range. Recommended to Auburn Concrete that adjustments be made prior to placing concrete exposed to weather. The first two loads (18-yards) was used for elevator pit slab and had Zypex added at the plant and the remaining concrete (6-yards) was used in AA-line footings was a standard mix. All three loads required about 90-minutes from batch time to discharge. Recommended to N.S. Giles that truck spacing be adjusted for future placements so trucks were not sitting. No issues were noted with respect to reinforcing steel. AA-line footings stopped short of A1/AA due to pending RFI for this area.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	10-26-12
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Walls: AA/A4(-6') to AA/A1 to elev 89'and elevator pit to elev 75' Footings: AA/A4(+6') to AA/A5 to AC(-6')/A5 and interior footings at AC/A4, AC/A3, AC/A1, AD/A4, AD/A2, AE/A4	**SWCE Rep.:**	K. Gimpel
		Arrived at Site:	12:00 pm
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☐ Other ☐	**Left Site:**	6:15 pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	wheels, plastic tipped chairs
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete/stone/bedrock

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Main Concourse Level Foundation Plan – Quad A	10-26-12	S2.21A	3
Sections and Details	10-26-12	S3.00 S3.02	1 / 2
Beauce Atlas	9-27-12	A100 A200	
Barker Steel	10-2-12	RO1 + 2	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump, with stab pipe as needed
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	Full height of wall and into previous lift
Even layering around openings and embedments	Yes ☒	No ☐	☐	Access holes in top of bolt templates for vibration
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-2 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☒	No ☐	☐	Trowel
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes: Field tests performed indicated concrete tested was within project specifications. Zypex added to first load for placement in elevator pit walls to elevation 75. We understand that footings AC/A1, AD/A2, AE/A4 and AE/A5 were modified per recent RFI to work with existing conditions. Observed that both faces of vertical wall reinforcement at AA/A5 were not continuous through pier – N.S. Giles added required reinforcing added prior to placement. Top of wall at AA/A1 (above where doweled to existing) no end reinforcement used – understand from N.S. Giles that condition previously discussed and none required for this condition. All other reinforcing observed appeared to be as per plan. Brick shelf added after lower portion of wall placed for easier access.

Attachments: Photos Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	11-3-12
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Walls: AA/A4(-6') to AB/A5 to AD/A5 and elevator pit to elevation 89'±	**SWCE Rep.:**	K. Gimpel
		Arrived at Site:	6:50 am
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Left Site:**	12:00 pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	wheels, plastic tipped chairs
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Main Concourse Level Foundation Plan – Quad A	10-26-12	S2.21A	3
Sections and Details	10-26-12	S3.00 S3.02	1 / 2
Beauce Atlas	9-27-12	A100 A200	
Barker Steel	10-2-12	RO1 + 2	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump, with stab pipe as needed
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	Full height of wall and into previous lift
Even layering around openings and embedments	Yes ☒	No ☐	☐	Access holes in top of bolt templates for vibration
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

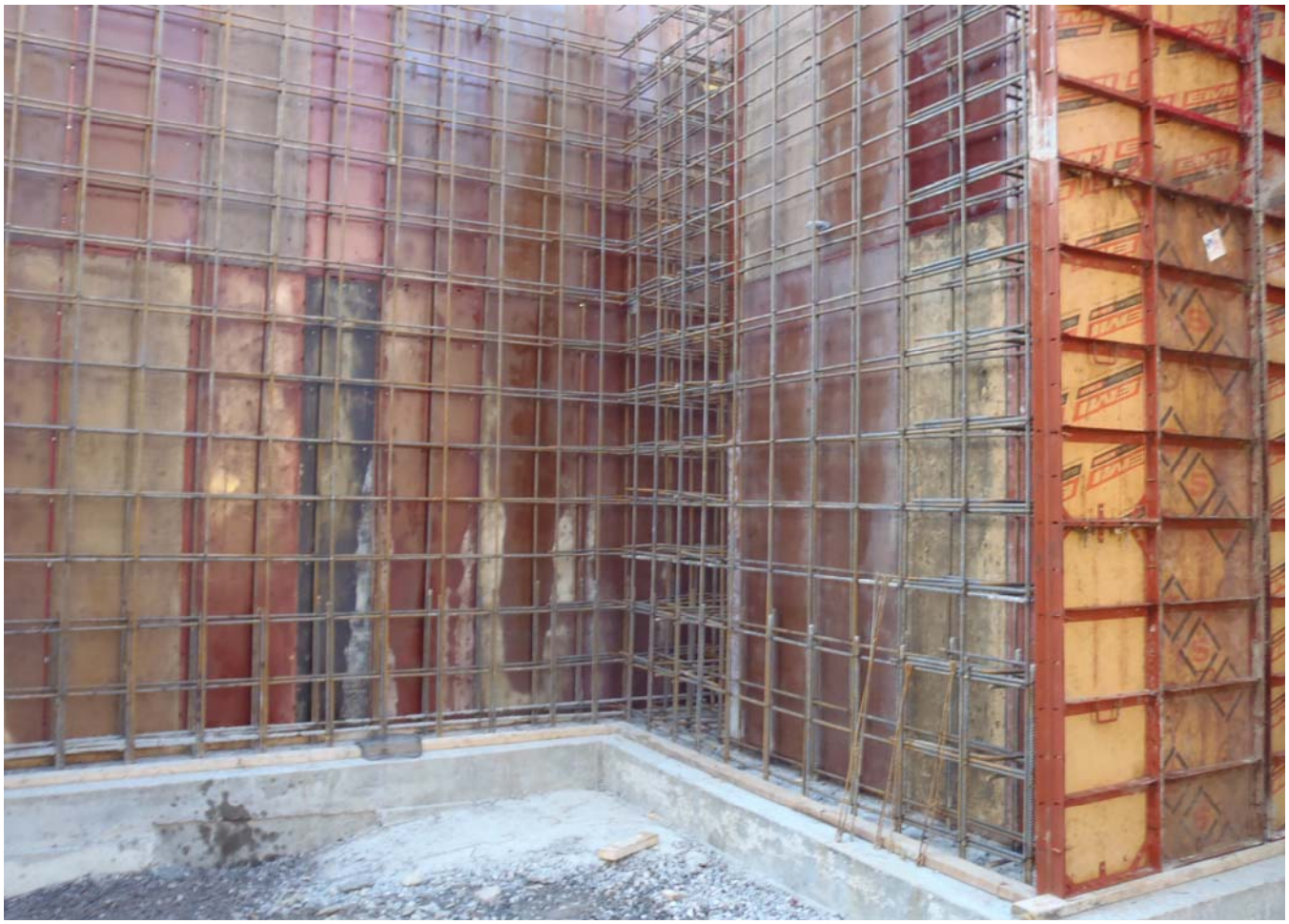
***CYLINDER SET NO:** 412-3 & 4 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes: Reinforcing inspections were performed during the construction process for this placement to allow for better visibility and access; visits were made on 11-1-12 and 11-2-12 and a final inspection was performed prior to the placement on 11-3-12, at which time reinforcing observed appeared to have been installed per the applicable project plans. Some of issues noted and addressed included: Clearances at pier AA/A4 exceeded the maximum allowed – N.S. Giles spliced verticals and shifted horizontals, as needed. Vertical wall dowels not continuous through pier at AB/A5 – N.S. Giles added bars, as needed. No corner bars at brick shelf – N.S. Giles added, as needed. General coverage and clearances – N.S. Giles adjusted, as needed. Initial field tests indicated that concrete air entrainment was on the lower side of the specification range, so air was added to the first two loads on site after which an adjustment was made at the plant. Testing indicated that concrete placed was within the project specifications.

Attachments: Photos Reviewed By: RED



S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	11-6-12
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Footings: AB/A5 to AB/A6 to AE/A6	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	1:50 pm
		Left Site:	5:45 pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	See comments
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Concrete bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Neat/fill concrete

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Main Concourse Level Foundation Plan – Quad A	10-26-12	S2.21A	3
Sections and Details	10-26-12	S3.00 S3.02	1 / 2
Barker Steel	10-2-12	RO1 + 2	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3,500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

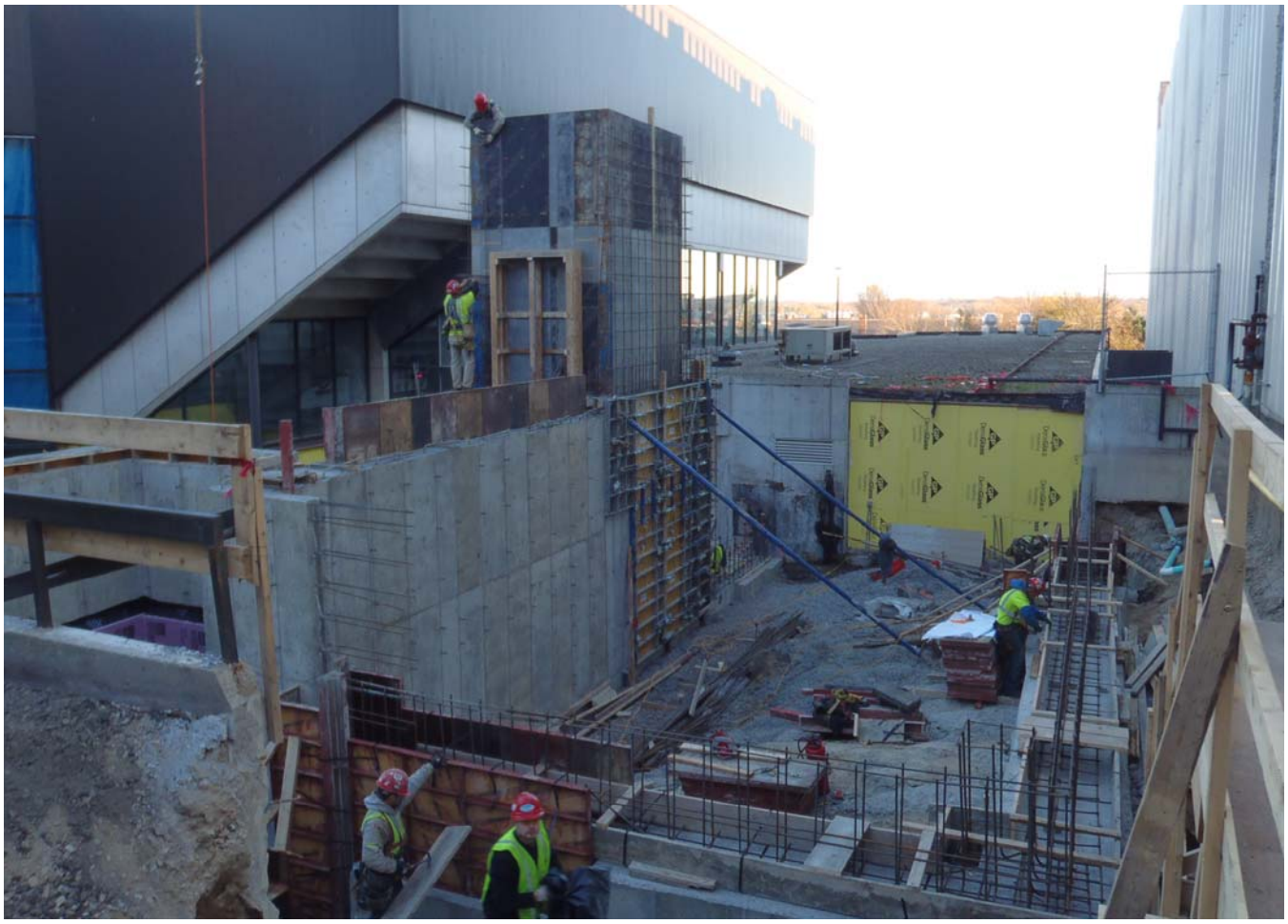
***CYLINDER SET NO:** 412-5 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	See comments

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes: WBRC (Adam Barber) was on site prior to today's placement to inspect reinforcing, answer questions and observe general site progress. We performed joint inspection of reinforcing with WBRC and noted the following: The geometry of step footing construction and resultant installation of reinforcing observed at steps for AB and A6 Lines deviates from detail F01 on S3.00 – WBRC accepted as installed for this placement, but cautioned that as a rule, the structural plans should be strictly adhered to unless previous prior approval is obtained allowing changes. Giles did not form up footing near AD-Line that connects existing foundations to A6-line – WBRC authorized connections to be made with epoxy dowels at a later time at this location. Splice bars were needed (and added) for epoxy vertical pier reinforcement at AE/A6 in order to have the desired splice length protruding above the top of footing. We discussed elevator door opening reinforcing with WBRC and it was determined that additional connections will likely be added at door openings when slab reinforcing is installed. Concrete field tests performed today indicated that concrete placed was within project specifications. Freezing overnight temperatures are possible tonight – forms will remain in place, but no blankets appear to be available for surface protection at this time.

Attachments: Photos Reviewed By: RED



09

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	11-9-12
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Walls: AB/A5 to AB/A6 to AC.3 (+6') and elevator shaft to elev. 101.5'± Footing: Near AD-Line between existing and A6	**SWCE Rep.:**	K. Gimpel
		Arrived at Site:	12:45 pm
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☐ Other ☐	**Left Site:**	5:00 pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Plastic tipped chairs, wheels
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Neat/fill concrete

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Main Concourse Level Foundation Plan – Quad A	10-26-12	S2.21A	3
Sections and Details	10-26-12	S3.00 S3.02	1 / 2
Barker Steel	10-2-12	RO1 + 2	
Beauce Atlas	9-27-12	A100 A200	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump with stab pipe
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-6 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	See comments

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

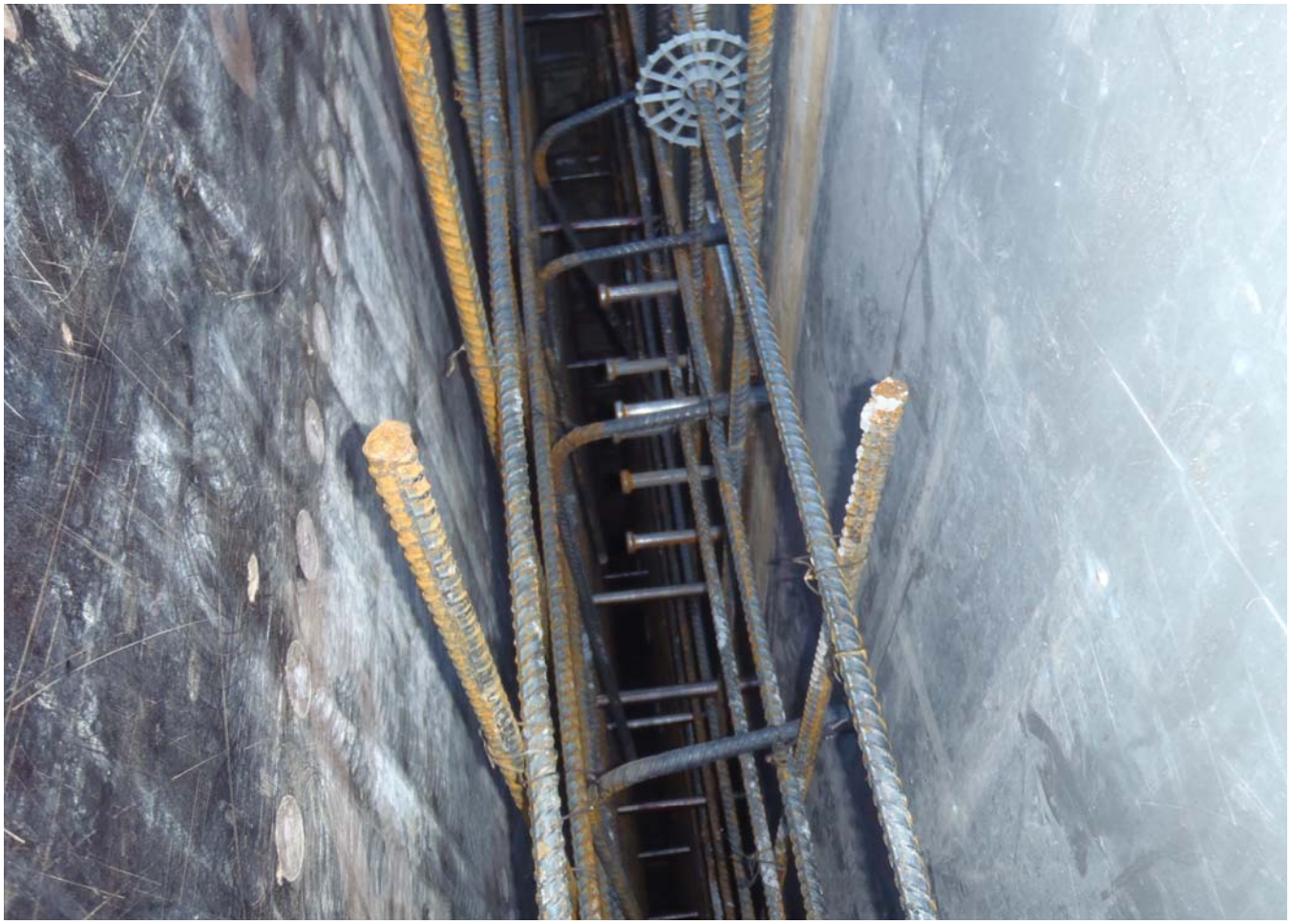
Notes:

We discussed design intent of typical "end" detail (F06 on S3.00) with WBRC (Adam) and understand that this detail applies primarily to door openings and free ends of walls and is not applicable to top of wall terminations. N.S. Giles had planned to place the elevator shaft walls to elevation 102, but that would have resulted in insufficient splice length for verticals protruding above top of placement, so grade was lowered as needed, to provide required splices. We observed missing vertical bar in elevator walls during inspection that Giles added prior to the placement. N.S. Giles wet stuck slab dowels at top of AB-line due to concerns about restricting access for pump hose. Concrete field tests performed indicated that mix placed was within project specifications.

Attachments: Photos

Reviewed By: RED

doka



S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	11-17-12
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Walls: AC.3 (-6')/A6 to AE/A6 including stub near AD-Line between existing and A6, AD/A5 to AE/A5, elevator shaft to Elev. 117	**SWCE Rep.:**	K. Gimpel
		Arrived at Site:	7:45 am
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Left Site:**	1:15 pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	Adjustments made as needed
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Plastic tipped chairs, wheels
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Main Concourse Level Foundation Plan – Quad A	10-26-12	S2.21A	3
Sections and Details	10-26-12	S3.00 S3.02	1 / 2
Barker Steel	10-2-12	RO1 + 2	
Beauce Atlas	9-27-12	A100 A200	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump with stab pipe
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

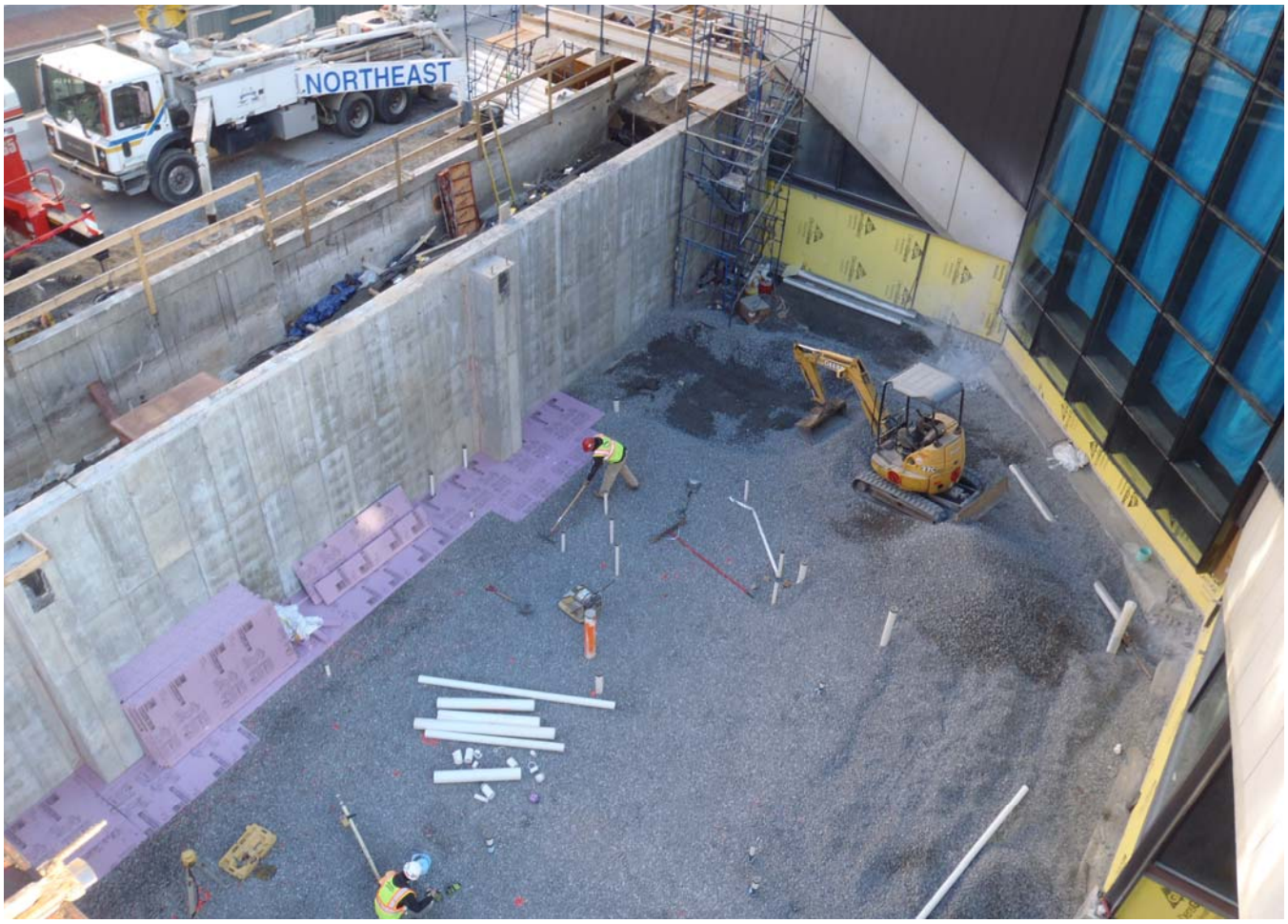
***CYLINDER SET NO:** 412-7 & 8 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes: During our inspection of reinforcing, we noted that walls A5 and A6 were not constructed with any connection to existing. Project documents did not specifically show a connection at these locations, but AA/A1 had been doweled to existing as had wall between A6 and existing near AD. We contacted WBRC (Adam) and direction was given to add two 3-feet long #5's with 6-inch embedment 6-inches down from top of wall at each location. Several clearance issues were also noted while looking at reinforcing – all were addressed by Giles prior to placing concrete. N.S. Giles wet stuck slab dowels at top of A5-line due to concerns about restricting access for the pump hose (twice the required number inadvertently installed). Footings at AC/A1 and AD/A2 were planned for placement today, but concrete demolition had not been extended deep enough. Concrete field tests performed indicated that mix placed was within project specifications.

Attachments: Photos Reviewed By: RED


NORTHEAST

DensGlass
Sheathing
GP

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	11-19-12
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Upper elevation footings north of AA-Line and replacement footings AC/A1 and AD/A2	**SWCE Rep.:**	K. Gimpel
		Arrived at Site:	2:00 pm
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐	**Left Site:**	4:45 pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Concrete bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Main Concourse Level Foundation Plan – Quad A	10-26-12	S2.21A	3
Sections and Details	10-26-12	S3.00 S3.02	1 / 2
Barker Steel	10-2-12	RO1, O1A, 2	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane & bucket or excavator
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embodiments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-9 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes: Prior to placement, footing subgrade at AC/A1 and AD/A2 were noted as having residual concrete rubble and granular material – per project subgrade preparation requirements, subgrade cleaned to sound rock or concrete prior to placement. Reinforcing steel appeared to have sufficient coverage, but was positioned above bottom of anchor bolts at AC/A1 and AD/A2 (not as shown on detail F33 on S3.02.)– we discussed with WBRC (Adam) and understand that as-built condition is acceptable at these locations. Reinforcing steel on A1-line footing (detail 57 on S3.03) was not constructed with top mat of reinforcing – required bars added by Giles prior to placement. Remainder of reinforcing steel observed for today's placement areas appeared as per plan. Concrete field tests performed indicated that mix placed was within project specifications. With below freezing ambient temperatures predicted, we recommend to Cianbro that Giles take measures to insure proper curing temperatures are maintained. Trucks have exceeded 90-minute time limit on several occasions, but have not shown signs of water demand, or rapid hydration – we informed Giles and Cianbro representatives of specifications and observed conditions.

Attachments: Photos Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	11-21-12
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Upper elevation walls north of AA-Line and phase 1 slab on grade	**SWCE Rep.:**	K. Gimpel
		Arrived at Site:	6:45 am
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☒ Other ☐	**Left Site:**	11:30 am

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Concrete bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Main Concourse Level Foundation Plan – Quad A	10-26-12	S2.21A	3
Sections and Details	10-26-12	S3.00, S3.01 S3.02	1 / 2
Barker Steel	10-2-12	RO1, 1A, 2, 3	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi (no air in slab mix)
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	See notes
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	pump
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-10, 412-11, 412-12	←*refer to associated concrete test report*	

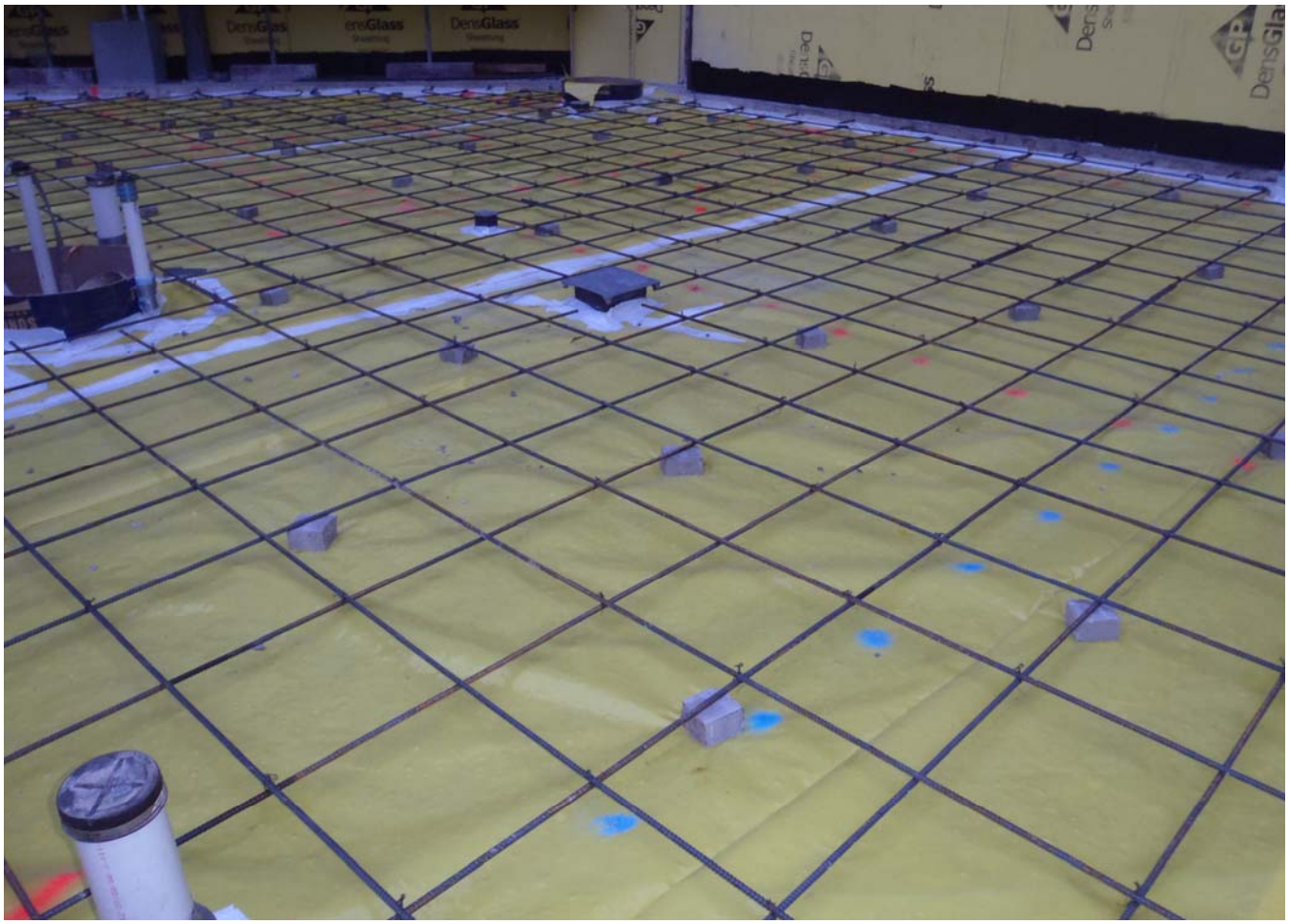
POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes: Hook bars at slab parameter not always around perpendicular edge bar – discussed with WBRC and understand that as-built condition is acceptable. Generally, reinforcing steel observed prior to placement appeared to have been installed in accordance with the applicable plans and details – minor adjustments were required (and made) with respect to clearances prior to the placement. As has been the practice, Giles wet stuck slab dowels in entry walls after concrete was placed. 60 yards of no air mix was used for slab and 10-yards with air for walls. Slab mix was batched with 2% accelerating admixture for the first 3 loads and 3% for the remaining 3 loads. The first 5-yard load used for the walls was intended to be a balance load for the slab so it was not batched with air – air was added on site prior to use in walls. An initial air test performed on this load indicated that it had 8.5% - a detraining agent was added by Auburn's to bring the load back into tolerance prior to use. One of the loads tested for the slab placement indicated a slump that exceeded the specification range by ¾-inch – contractor informed and cylinders formed. We understand slab will be covered in blankets and contractor will monitor curing temperatures.

Attachments: Photos

Reviewed By: RED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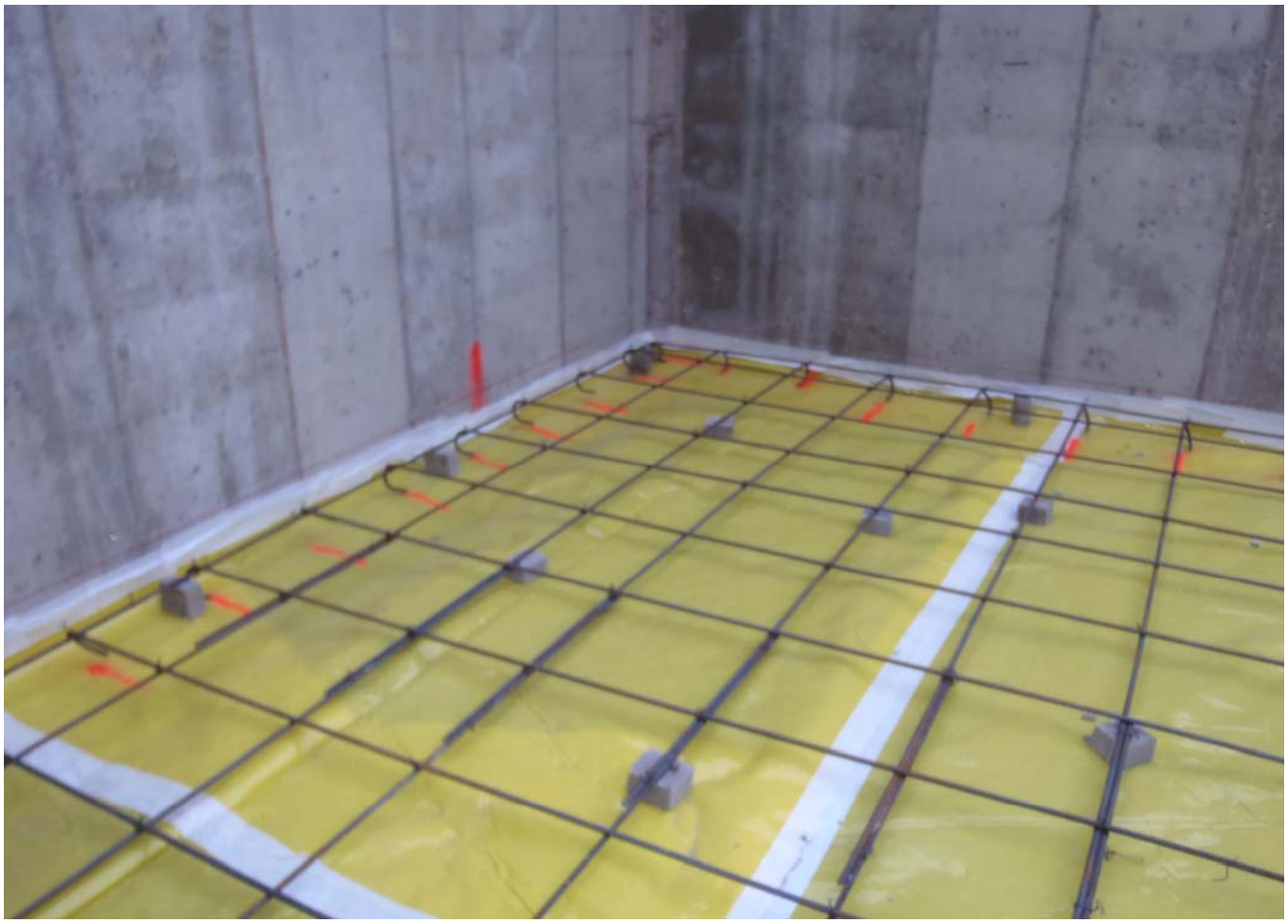

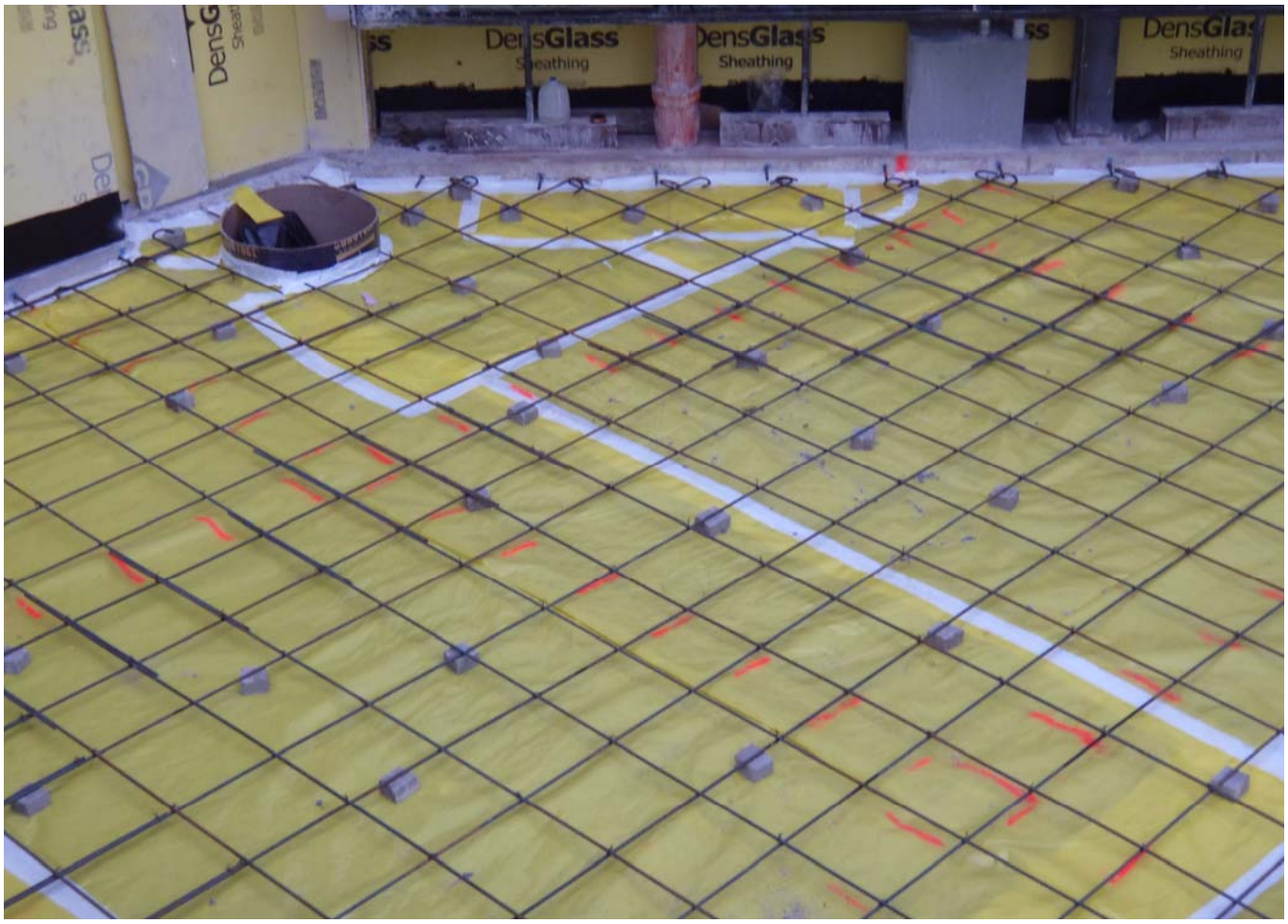
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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	12-14-12
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Cast in place stairs AE-line to AD-line	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☐ Other ☒	**Left Site:**	12:40 pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☐	No ☒	☐	See notes
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters
Stability (wiring, chairs, and spacers)	Yes ☐	No ☒	☐	See notes
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Concrete mud mat

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Main Concourse Level Foundation Plan – Quad A	10-26-12	S2.21A	3
Sections and Details	10-26-12	S3.01	1 / 2
Barker Steel	10-2-12	RO3	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☐	No ☒	☐	See notes
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Line pump
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☒	No ☐	☐	

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-13 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☒	No ☐	☐	Ground heater and blankets

NON-CONFORMANCE ITEMS OBSERVED Yes ☒ No ☐

Notes:

Concrete curbs previously placed – SWCE was not on site to observe. Today's placement did not include the bottom landing and stopped at the northern edge of the middle landing. Reinforcing observed prior to placement appeared per plan with respect to diameter, count, and general location, but we recommended to N.S. Giles (Wayne) and Cianbro (Brian) that adjustments be made to provide proper positioning and stability. Reinforcing not installed yet between AD and AC.3-lines – recommended to N.S. Giles that they provide adequate splice length protruding for next placement. Mix delivered was 3,500-psi non-air entrained with ¾-inch aggregate and a midrange water reducer, but water cement ratio indicated on batch ticket was 0.50; project specifications (033000-8 section 2.14) call out a maximum w/c of 0.45 - we notified Cianbro and N.S. Giles. Field testing performed indicated mix placed was within project specifications. A ground heater and insulation blankets are on site for curing after N.S. Giles completes finishing.

Attachments: Photos Reviewed By: RED

DensGlass
Sheathing

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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	1-8-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Mid Suite Level Floor Quad A composite slab and slab on grade, Upper Suite Level Floor Quad A composite slab, stairs elevation 83.5 to 89.5 ±	**SWCE Rep.:**	K. Gimpel
		Arrived at Site:	3:45 pm
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☒	**Left Site:**	5:30 pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	See comments
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks or chairs
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☒	

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Main Concourse Level Foundation Plan – Quad A	10-26-12	S2.21A, S2.41A	2
Sections and Details	10-26-12	S3.01, S5.00	2
Barker Steel	10-2-12	RO3, R04	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☐	No ☐	☒	
Placement and consolidation of concrete observed	Yes ☐	No ☐	☒	
Concrete properly conveyed to all areas of placement	Yes ☐	No ☐	☒	
Depth of layer maximum limits not exceeded	Yes ☐	No ☐	☒	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☐	No ☐	☒	
Even layering around openings and embedments	Yes ☐	No ☐	☒	
Removal of temporary ties and spacers	Yes ☐	No ☐	☒	

FIELD TESTING OF CONCRETE PERFORMED Yes ☐ No ☒ Scheduled for 1/9/13

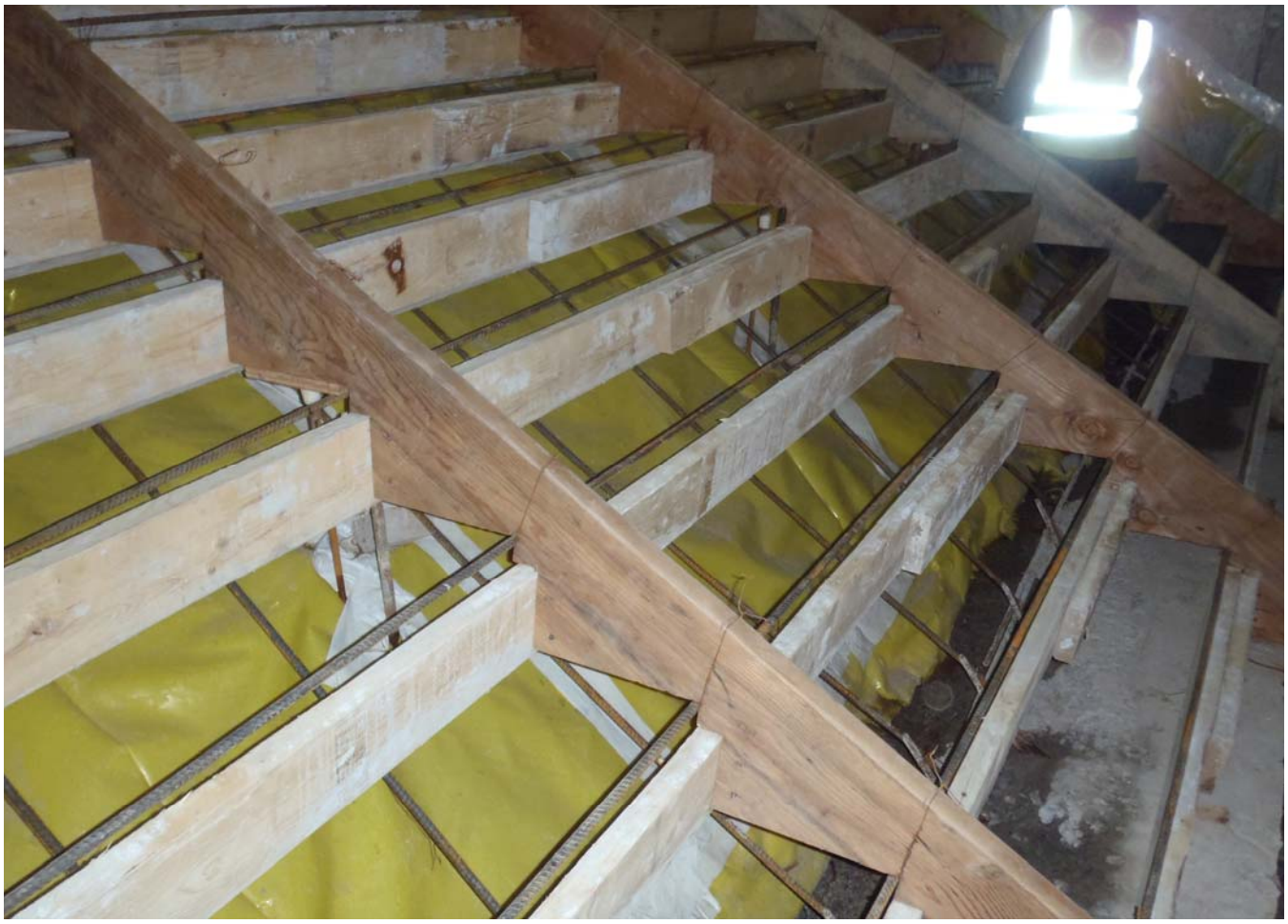
***CYLINDER SET NO:** N/A ←**refer to associated concrete test report*

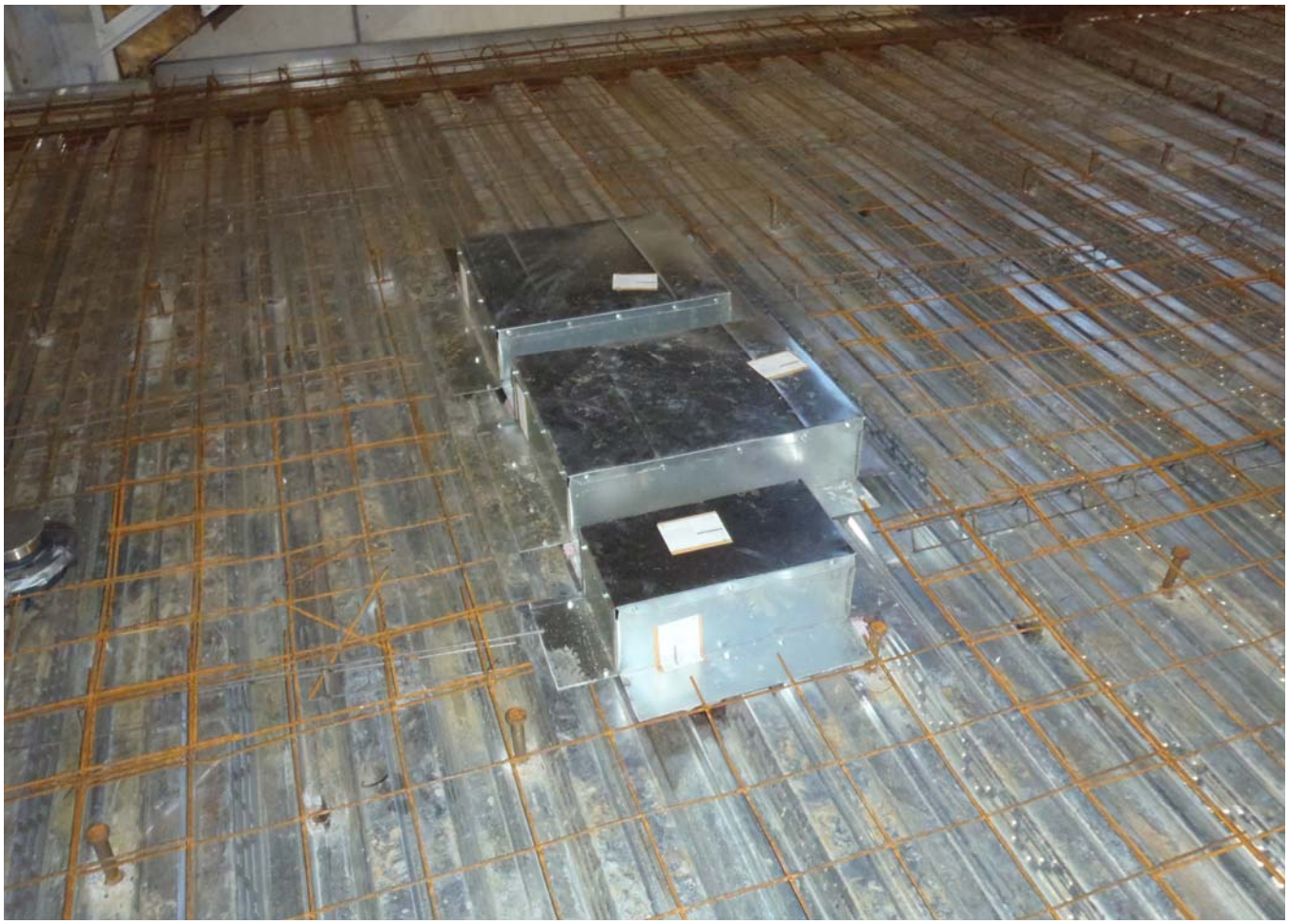
POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

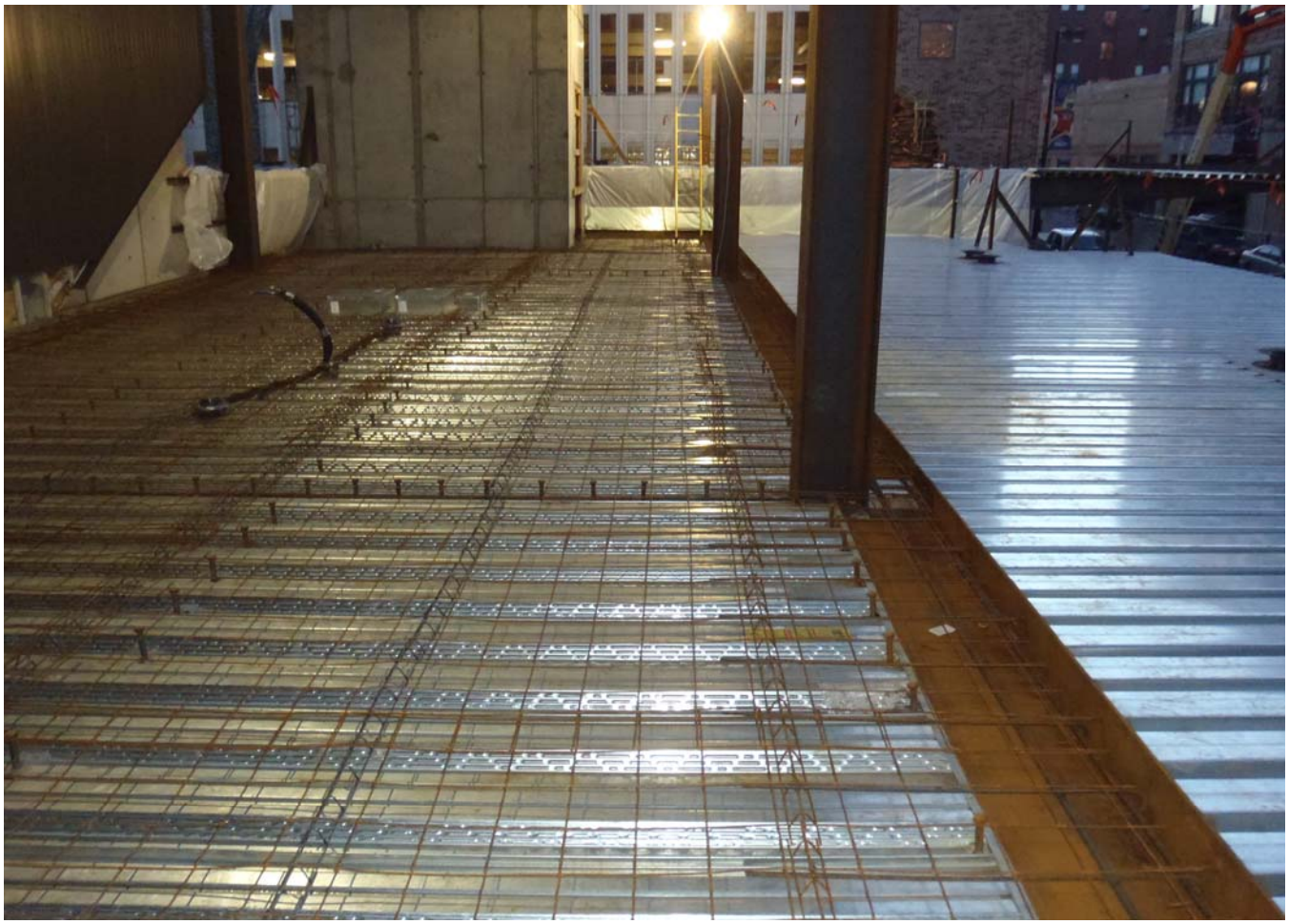
NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☐ See comments

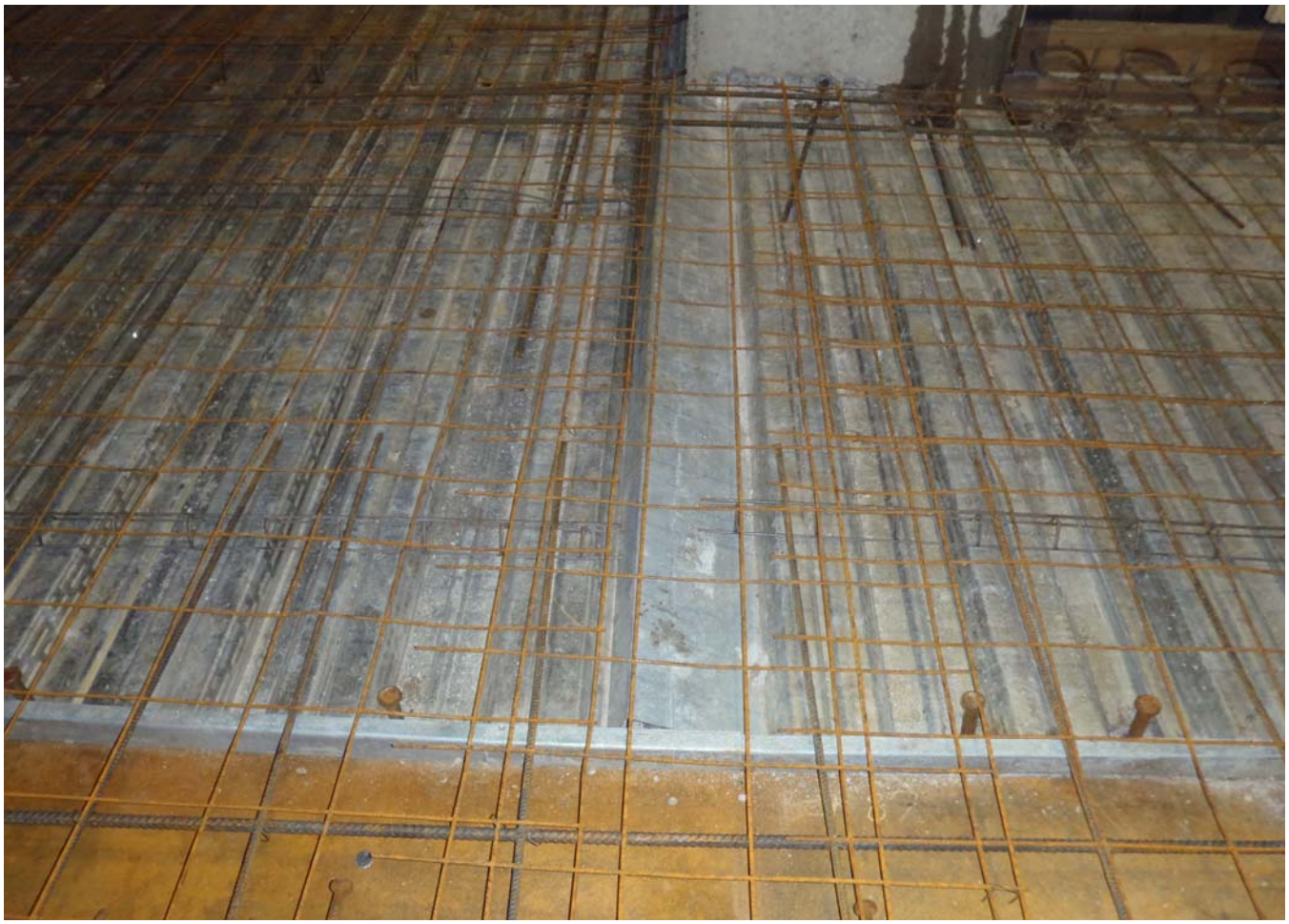
Notes: Reinforcing observed generally appeared to have been installed in accordance with the applicable plans and details, with the exception of the additional reinforcing required per detail 6 on S5.00 around composite slab penetrations – discussed detail with Cianbro and Giles and was informed that required reinforcing will be added prior to placement. WWF at both levels is supported by chairs, but has become bent as a result of foot traffic and no longer appears to be consistent with respect to depth and coverage – recommended adjusting clearances prior to placement. Also, recommended adjusting parameter reinforcing as needed to provide required concrete coverage. An inverted section of pour stop was used to close out gap in decking on upper level and it protrudes about 1-inch above deck into the slab – indicated to Cianbro that this condition may heighten potential for cracking at this location. Item's specific to the current placement area that were noted as deficient or pending completion in WBRC's (Adam Barber) field report #2 dated December 21, 2012 were re-inspected and appeared to have been addressed.

Attachments: Photos Reviewed By: RED









S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	1-16-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Exterior Planter Wall Cap: North of line AA, from A1 to A4.	**SWCE Rep.:**	V. Terrell
		Arrived at Site:	12:45pm
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☒	**Left Site:**	2:45pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	See comments
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	Acceptable
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
RFI No. 00111	1-8-2013		
Sections and Details	10-26-12	S2.31A	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500psi
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-16 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☐ See comments

Notes:

Reinforcing observed generally appeared to have been installed in accordance with the applicable plans and details. Forms and reinforcing were not heated, but placement area was covered with insulated blankets prior to concrete placement and snow cleaned off. #5's @ 12" o.c EW were substituted for the specified #4's @ 12" o.c EW. Reinforcing appeared to have been installed with the required clearances. Concrete field tests performed were found to be within project specifications. We understand that N.S. Giles plans on covering placement area with insulated blankets and heating with ground heater hoses.

Attachments: Photos

Reviewed By: KBG

01/16/2013 12:07

01/16/2013 12:07

GP
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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	1-18-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Exterior Slab on Grade: NW Entry PH. I	**SWCE Rep.:**	V. Terrell
		Arrived at Site:	8:30am
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Left Site:**	10:45am

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	See comments
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	Acceptable
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Conc. blocks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	10-26-12	S0.01	1
Sections and Details (Detail E1)	10-31-12	C501	
WBRC RFI-127	1-16-13		

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	4500psi
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-17 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☐ See comments

Notes:

Reinforcing observed generally appeared to have been installed in accordance with the applicable plans and details. Epoxy coated #4s @16"O/C E.W. Placement area covered with ground heater hoses and insulated blankets prior to concrete placement. N.S. Giles cleared frozen gravel off the top of wall with hot water prior to concrete placement. N.S. Giles bent vertical wall dowels and tied for clearance. N.S. Giles raised rebar mat and tied to vertical dowels in order to meet 1.5" top coverage requirement. Reinforcing appeared to have been installed with the required clearances. Concrete field tests performed were found to be within project specifications. We understand that N.S. Giles plans on covering placement area with insulated blankets.

Attachments: Photos

Reviewed By: RED

01/18/2013 07:46

01/18/2013 09:15

DANGER
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01/18/2013 07:54

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	5-24-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Knee walls for bowl vomitories	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☐ Other ☒	**Arrived at Site:**	6:30am
		Left Site:	9:15am

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	See notes
Splicing (weld joint, overlap)	Yes ☐	No ☐	☐	N/A
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Enlarged Plans	3-8-13	S2.75B	2
Typical Bowl Details	3-1-13	S4.00	1
Typical Concrete Foundations Sections and Details	5-1-13	RO3A	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Conveyor
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-18	←**refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

N/O = Not Observed

Notes:

Reinforcing observed 5-23-13. Reinforcing appeared to have been installed per above referenced plans. Slab dowels installed and secured prior to placement and final height adjustments made at time of placement as needed. Discussed with Cianbro the note in the project specifications regarding use of bonding agents when casting against existing concrete, Brian Larson contacted WBRC to discuss applicability. Concrete field tests performed indicated mix placed was within project specifications.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	5-30-13 / 6-3-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Vomitory composite slabs (8 total: 3 east, 3 west, 1 south and 1 southwest)	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	12:00pm / 7:00am
		Left Site:	1:00pm / 11:00am

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	See notes
Splicing (weld joint, overlap)	Yes ☐	No ☐	☐	N/A
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	2-1-13	S0.01	3
Enlarged Plans	3-8-13	S2.75B	2
Typical Bowl Details	3-1-13	S4.00	1
Typical Concrete Foundations Sections and Details	5-1-13	RO3A	

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Power buggy / wheelbarrows
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-19 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing observed 5-30-13. Reinforcing generally appeared to have been installed per above referenced plans. However, at the time of our initial inspection, PAF fasteners had not been installed as shown on detail 6 S4.00 (decking/concrete drilled and secured with hand driven fasteners prior to placement). Also, recommended adjusting outside edge longitudinal #6 and adding #4 transverse bars each end at each slab location to provide edge reinforcing within specified coverage range (adjustments made as recommended prior to placement). We reviewed recommendations with WBRC (Adam) prior to informing Giles and Cianbro. Slabs placed and finished by Pride Floors. Concrete field tests performed indicated mix placed was within project specifications.

Attachments: Photo Reviewed By: RED

DELTA DENTAL

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	6-3-13 / 6-4-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Mid Suite and Upper Suite composite slabs A1 to A2 lines and press box walls	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	11:00am / 11:30am
		Left Site:	12:00pm / 4:45pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	See notes
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	2-1-13	S0.01	3
Enlarged Framing Plans	1-21-13	S2.71A	3
Steel Floor Framing Sections and Details	1-21-13	S5.01	3
Upper Suite Level Floor Framing Plan – Quad A	1-21-13	S2.41A	3

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Walls vibrated / slabs typical placement methods
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump truck
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-20	←*refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes:

As requested by WBRC, shear studs were ring tested on 6-3-13. 4 studs on each of the levels were found to be unacceptable and were replaced by Arc prior to the placement. Studs were not consistently on the "strong side" as shown on S5.00 detail 4; discussed with WBRC (Adam) and understand for this particular placement that design intent was satisfied. Also observed during our initial inspection that welded #5 bars on bent plates (S5.01 detail 27) had not been installed at all locations detailed; the required reinforcing was added prior to the placement. Complete inspection of slab reinforcing performed on 6-4-13 and no outstanding issues were noted. Reinforcing in walls appeared to have been installed in accordance with the applicable typical details. Concrete field tests performed indicated that mix placed was within project specifications. Slabs were placed and finished by Pride Floors.

Attachments: Photos

Reviewed By: RED

6-3-13

6-4-13

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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	6-25-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B Footings: BA to BC x B1 to B2	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	1:15pm
		Left Site:	4:50pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	Minimum 40 bar diameters
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Concrete bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete or ¾ stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2
Concrete Foundation Sections and Details	3-1-13	S3.05	1
Concrete Foundation Sections and Details	1-21-13	S3.06	0

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-21 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

N/O = Not Observed

Notes:

Reinforcing inspected prior to the placement appeared to have been installed in accordance with the above referenced plans and details. The ambient temperature at the time of the placement was about 90°and mix temperatures ranged from 89° to 90°; concrete delivery times held to 60 minutes or less in accordance with the project specifications. Concrete field tests performed indicated mix placed was within project specifications.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	6-28-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B Footings: BC to CD x B1 to B2	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	8:50am
		Left Site:	12:20pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	Minimum 40 bar diameters
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Concrete bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete or ¾ stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2
Concrete Foundation Sections and Details	3-1-13	S3.05	1
Concrete Foundation Sections and Details	1-21-13	S3.06	0

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-22 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☒	No ☐	☐	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☐	N/A
Proper curing procedures implemented	Yes ☒	No ☐	☐	Plastic sheeting to protect from rain shortly after finishing

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

N/O = Not Observed

Notes:

Reinforcing was inspected prior to the placement and no issues were noted. Forms were pumped prior to placing concrete where needed and residual water was forced out with concrete. Heavy rainfall occurred at the start of the placement and more is anticipated later so placement area was covered with plastic. Concrete field testing performed indicated mix placed was within project specifications.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-2-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D elevator mat slab	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	1:00pm
		Left Site:	3:30pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Concrete bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Concrete Foundation Sections and Details	2-8-13	S3.04	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	tailgate
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-23	←*refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

N/O = Not Observed

Notes:

Subgrade surface (lean concrete) was pumped and appropriately cleaned prior to placing concrete. Reinforcing steel observed generally appeared to have been installed in accordance with the applicable plans and details, however, lean concrete was previously cast up to bottom of sump (structural mat not integrally "thickened" as shown on S3.04/F67) so in order to install bottom mat reinforcing at sump, Giles cut bars and set them in epoxy holes made in lean concrete. Concrete field testing performed indicated entrained air content was slightly out of specification on the first load at time of testing; second load was adjusted in the field by Auburn Concrete and initial testing performed prior to starting discharge. The area on S3.04/F67 noted as requiring "infill w/ CONC. Below ETR FTG." extends laterally approximately 2-feet and is generally between 2 and 4-inches high; we understand that Giles plans on this void being filled as part of their first wall placement.

Attachments: Photos

Reviewed By: RED

N.S. CHEES

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-9-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B Wall on BW-line from B1(-10') to B2	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	11:45am
		Left Site:	4:30pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	See notes
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Event Level Foundation Plan – Quad D	3-1-13	S2.12B	2
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2
Concrete Foundation Sections and Details	3-1-13	S3.05	1
Barker Steel Quad B Loading Dock Remainder	5-14-13	R02E	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and Bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-24	←*refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes:

The following summarizes items discussed following observations of reinforcing that were made prior to the placement:

- Wall thickness called out on S2.12B as 16-inches for total length but wall was built at 12-inches for west 2/3 – we contacted WBRC (Adam Barber) and understand as-built configuration is correct.
- Note 12 in "reinforcing steel" section on S0.01 requires epoxy dowels where new concrete abuts existing and none had been installed at BW/B2 – WBRC indicated that epoxy dowel requirement should not be applied to freestanding existing columns and as-built condition is appropriate.
- Four-way wall intersection towards east end of placement formed with three legs (Giles plans to drill and epoxy north section later – reinforcing added in this area as needed to satisfy intent of "typical intersection" S3.00
- Masonry dowels and slab bars F78 on S3.05 not in at time of placement – masonry dowels wet stuck but slab bars could not be installed given construction of shelf forms – Cianbro approved drill and epoxy installation.

Concrete field testing indicated mix placed was within project specification.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-12-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B Wall on BX-line	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	6:45am
		Left Site:	1:30pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2
Concrete Foundations Sections and Details	3-1-13	S3.05	1
Concrete Foundation Sections and Details	1-21-13	S3.06	0
Barker Steel Quad B Loading Dock Walls Partial	5-14-13	R02D	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and Bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-25 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

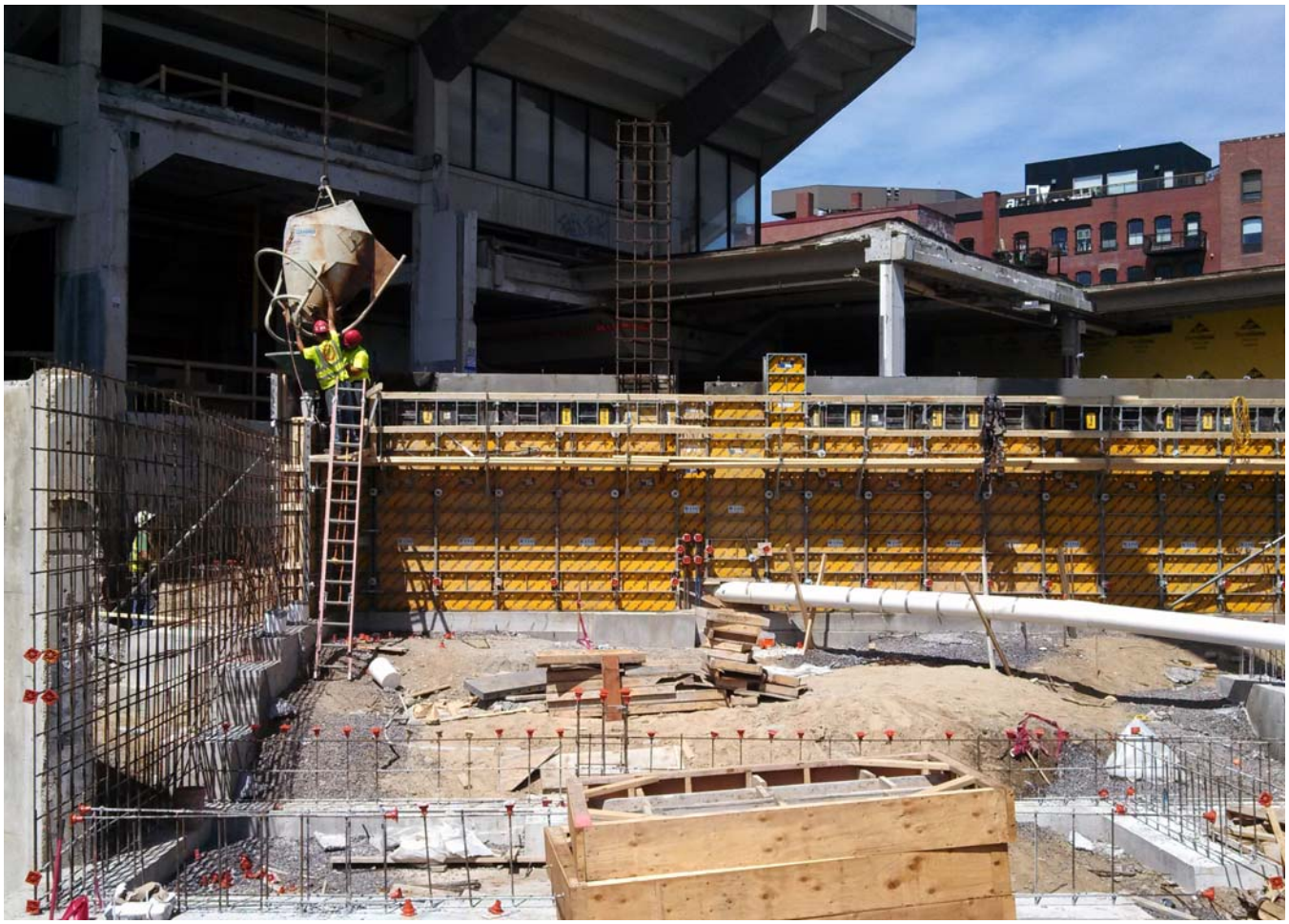
Notes:

Reinforcing steel appeared to have been installed in general accordance with the above referenced documents. Placement time was delayed for two hours from original targeted time while N.S. Giles completed bulkhead work and made final adjustments. Wall face clearances adjusted prior to the placement as needed through use of chairs and sacrificial positioning bars. Several vertical bars were spliced and a horizontal added in order to be within tolerance for specified top maximum clearance. Funnel hopper with trunk was utilized for first lift of wall to reduce freefall distance. Masonry dowels will be wet stuck at end of placement. Concrete field testing indicated mix placed was within project specification.

Attachments: Photos

Reviewed By: RED

doka



S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-15-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D elevator walls to elevation 75' 11"	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	11:50am
		Left Site:	5:00pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	See notes
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Concrete Foundations Sections and Details	2-8-13	S3.04	1
Typical Steel Framing Sections and Details	1-21-13	S5.00	3
Bruce Atlas Embed Layout Quad D	3-25-13	A202	1
Barker Steel Quad D Elevator	6-6-13	R01A	2

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and Bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-26 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel inspection performed prior to placement. Items noted and addressed included: Mechanical slab dowels missing from one face – added as required; embeds appeared too high (into proposed slab as laid out by Giles) – embeds lowered after elevations checked; embeds upside down as compared to project structural detail on S5.00 (installed as shown on shop drawings being utilized in field) – Cianbro contacted WBRC and we understand as built condition is acceptable at this location, but at top of wall conditions it is important to install as shown on structural details. Giles is using Doka forms and several types of form related embeds were cast into wall including ties and beam pockets. A funnel hopper with trunk was utilized for first lift of wall to reduce freefall distance. XYPEX C-500 added at the plant to first load for use in lower portion of wall. Load 1 discharge not complete by specified time and mix was showing signs of rapid hydration; we informed Cianbro and it with several yards unused; load 2, which was close to time limit by the time Giles was ready to use and appeared over specified maximum slump, was also rejected with no portion used. Concrete field testing indicated mix placed was within project specification.

Attachments: Photos Reviewed By: RED

doka
Frami Xlife

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Xlife

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-17-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C elevator base slab	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☐ Other ☒	**Arrived at Site:**	12:00pm
		Left Site:	3:15pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	See notes
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Concrete bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad C	3-1-13	S2.03B	2
Concrete Foundation Sections and Details	2-8-13	S3.04	1
Barker Steel Quad C Elevator Foundation	6-6-13	R02B	2

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-27 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel observed generally appeared to have been installed in accordance with the applicable plans and details, however, lean concrete was previously cast up to bottom of sump (structural mat not integrally "thickened" as shown on S3.04/F66) similar to practice noted at Quad D elevator base. A sump/pump operation was maintained throughout placement just outside of the formwork to control mild but ongoing seepage. As approved in RFI-432 waterstop installed was ribbed PVC rather than bentonite as shown on detail. Concrete field testing performed indicated that mix placed was within project specifications.

Attachments: Photo

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-18-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B: Wall at back of Loading docks from 6' east of BX-line to 10' west of CD/C2 including 5' stub onto BZ-line	**SWCE Rep.:**	KBG/AM
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	9:30am
		Left Site:	1:15pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	See notes
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2
Concrete Foundation Sections and Details	3-1-13	S3.05	1
Barker Steel Quad B Loading Dock Remainder	5-14-13	R02E	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-28	←**refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes:

Reinforcing steel observed prior to the placement generally appeared to have been installed in accordance with the applicable plans and details with the exception of the vertical and horizontal bars at top of wall which were out of tolerance with respect to maximum coverage allowed; bars were spliced prior to placement as needed to satisfy project requirements. We understand from Giles that the slab and masonry dowels required at top of wall will be wet stuck at end of placement. Pier at CE/BY and wall on BY-line were not part of this placement and will be cast later with epoxy dowels as needed for the wall section. Concrete field testing performed indicated that mix placed was within project specifications.

Attachments: Photos

Reviewed By: RED

GIANDRO
Frame
Xlife
doka

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-19-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B: Wall at back of Loading docks from 10' west of CD/C2 to CD/C2 to 20' north of CD/C2	**SWCE Rep.:**	KBG
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	12:50pm
		Left Site:	3:45pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	See notes
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2
Concrete Foundation Sections and Details	3-1-13	S3.05	1
Barker Steel Quad B Loading Dock Remainder	5-14-13	R02E	1
Bruce Atlas Embed layout Quads B and C	3-25-13	A201	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-30 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel observed prior to the placement generally appeared to have been installed in accordance with the applicable plans and details, however, the vertical and horizontal bars at top of wall again needed to be spliced prior to placement in order to satisfy maximum coverage requirements. We understand from Giles that the slab and masonry dowels required at top of wall will be wet stuck at end of placement. Giles ordered concrete for today's placement with ice to insure mix temperatures remained within project specifications (ambient temperature 95°). Concrete field-testing performed indicated that mix placed was within project specifications.

The second lift for the elevator in Quad D was also scheduled to be placed today, but some last minute adjustments to embed plate elevations and installation of slab dowels was needed, so this placement was postponed until Monday.

Attachments: Photos Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-19-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C: Slab infills at mechanical and event levels	**SWCE Rep.:**	A. Myers
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	5:30am
		Left Site:	10:15am

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☒	

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	**A 775 Epoxy** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi, no air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Haunches only
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-29 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

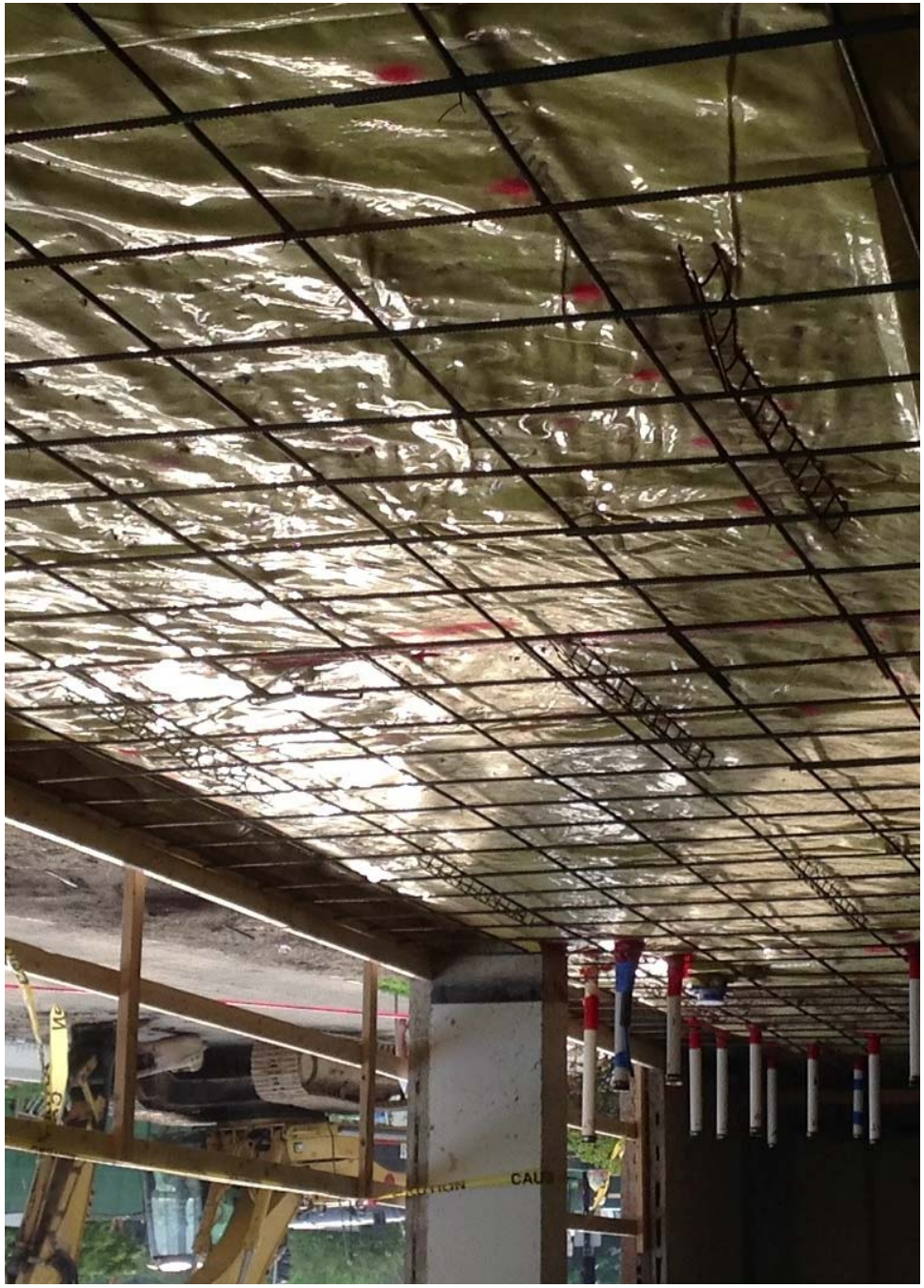
NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel observed prior to the placement appeared to have been installed in accordance with detail F13 on S3.00. Concrete field testing performed indicated that mix placed was within the project specifications. Concrete was placed and finished by Pride Floors working under subcontract to N.S. Giles.

Attachments: Photos

Reviewed By: RED



S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-22-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Slab infills concession concourse area	**SWCE Rep.:**	A. Myers / K.Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	6:15am
		Left Site:	See report from K.Gimpel same date

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☐	No ☒	☐	See notes
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Haunches only
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Power buggy
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-31 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

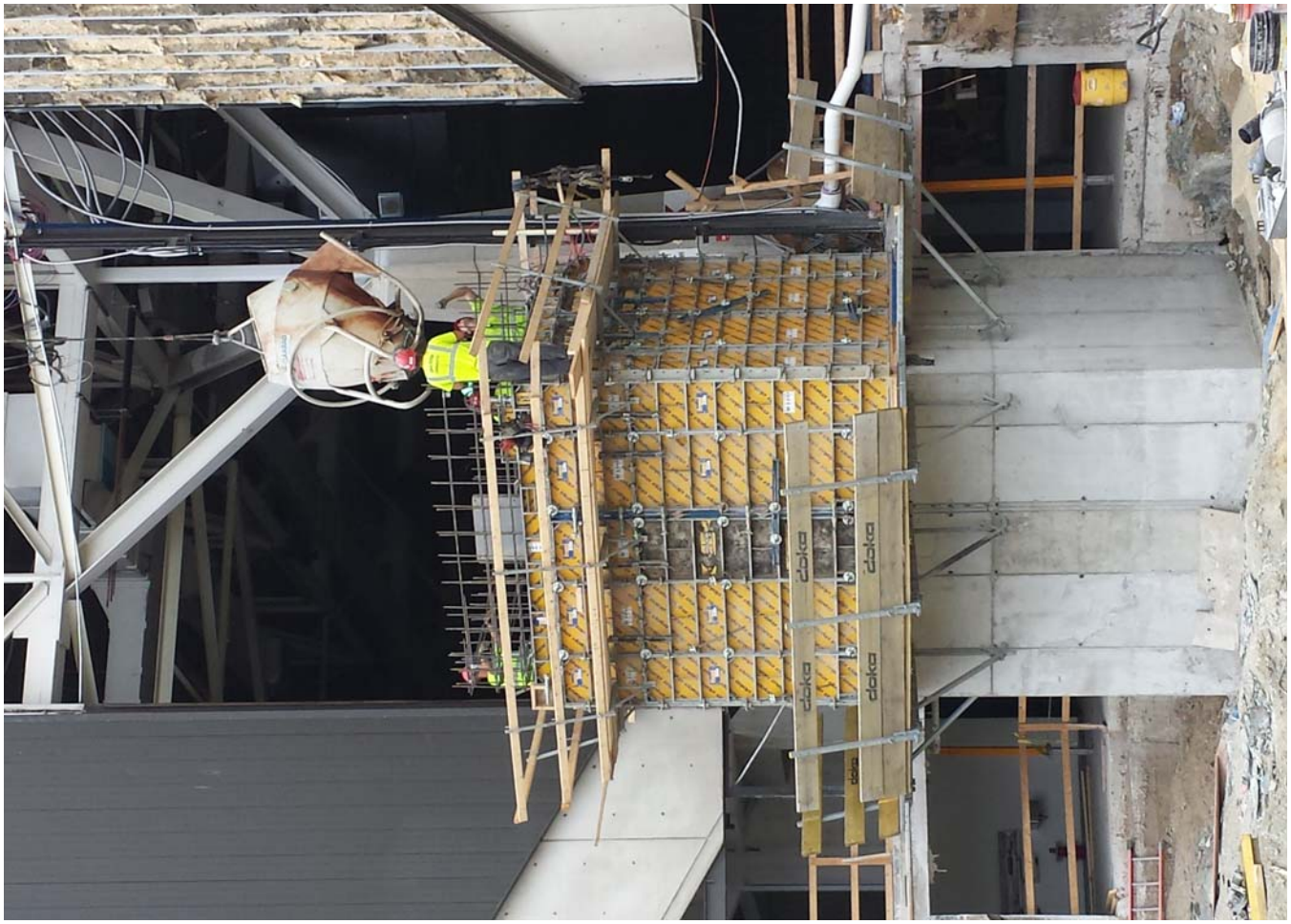
NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel observed appeared to have been installed in accordance with typical details. Reinforcing was pulled into place during placement rather than supported by chairs; discussed observation with Cianbro (Brad). Concrete was placed and finished by Pride Floors working under subcontract to N.S. Giles. Concrete field-testing performed indicated that mix was placed within project specifications.

Attachments: Photos

Reviewed By: RED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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-22-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D elevator walls to mid suite floor level	**SWCE Rep.:**	A. Myers / KBG
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	See report from A.Myers same date
		Left Site:	1:45pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	See notes
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Concrete Foundations Sections and Details	2-8-13	S3.04	1
Typical Steel Framing Sections and Details	1-21-13	S5.00	3
Bruce Atlas Embed Layout Quad D	3-25-13	A202	1
Barker Steel Quad D Elevator	6-6-13	R01A	2

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	Mechanically vibrated
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and Bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-32	←*refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes:

Reinforcing steel inspection performed on 7-19-13 and the few outstanding details were re-inspected prior to the placement; reinforcing observed generally appeared to have been installed in accordance with the above referenced project documents. We understand that the embed plates at the walls corners needed to be offset slightly to avoid conflicts between opposing studs. The mechanical slab dowels were planned to be wet stuck following the placement. Concrete field testing indicated mix placed was within project specifications.

Attachments: See photos attached to previously sent report same date Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-25-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	8" and 16" wall sections off ETR @ BW/B1 (propane storage area) including planter wall	**SWCE Rep.:**	K.Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	1:30pm
		Left Site:	4:15pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2
Quad B Loading Dock Remainder	5-14-13	R02E	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-33 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel observed appeared to have been installed in general accordance with the available project documents. Masonry dowels planned to be wet stuck at end of placement and we understand that slab dowels will be drilled in later. For this placement, no epoxy dowels to existing concrete and brick per earlier site conversations with engineer of record. In planter walls, limited concrete coverage possible in some areas due to small section dimensions and irregular surfaces on existing. Concrete field testing performed indicated mix placed was within project specifications.

Attachments: Photos Reviewed By: RED

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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-27-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C elevator walls to elevation 63' 10" Quad D elevator walls to elevation 101' 1.5" Quad B loading dock wall BY/B1 to BZ/B1	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	6:30am
		Left Site:	11:15am

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Concrete Foundation Sections and Details	2-28-13	S3.04	1
Concrete Foundation Sections and Details	3-1-13	S3.05	1
Concrete Foundation Sections and Details	1-21-13	S3.06	0
Barker Steel Quad C and Quad D elevator	6-6-13	R02B R01A	2
Bruce Atlas embed layout	3-25-13	A201 A202	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane bucket and funnel hopper
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-34 (Quad D)
412-35 (Quad C placement)

←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel observed 7-26-13 at elevator shafts and on 7-27-13 for loading dock wall section. Reinforcing appeared to have been installed in general accordance with the above referenced drawings. Slab dowels planned to be wet stuck at elevator and installed later (drill/epoxy) at loading dock wall section. Masonry dowels also planned for epoxy installation where needed. We understand that steel door jam sections shown on S3.06/F91 have been changed and will be installed when doors are installed. Concrete field testing performed indicated mix placed was within project specifications.

Attachments: Photos

Reviewed By: RED

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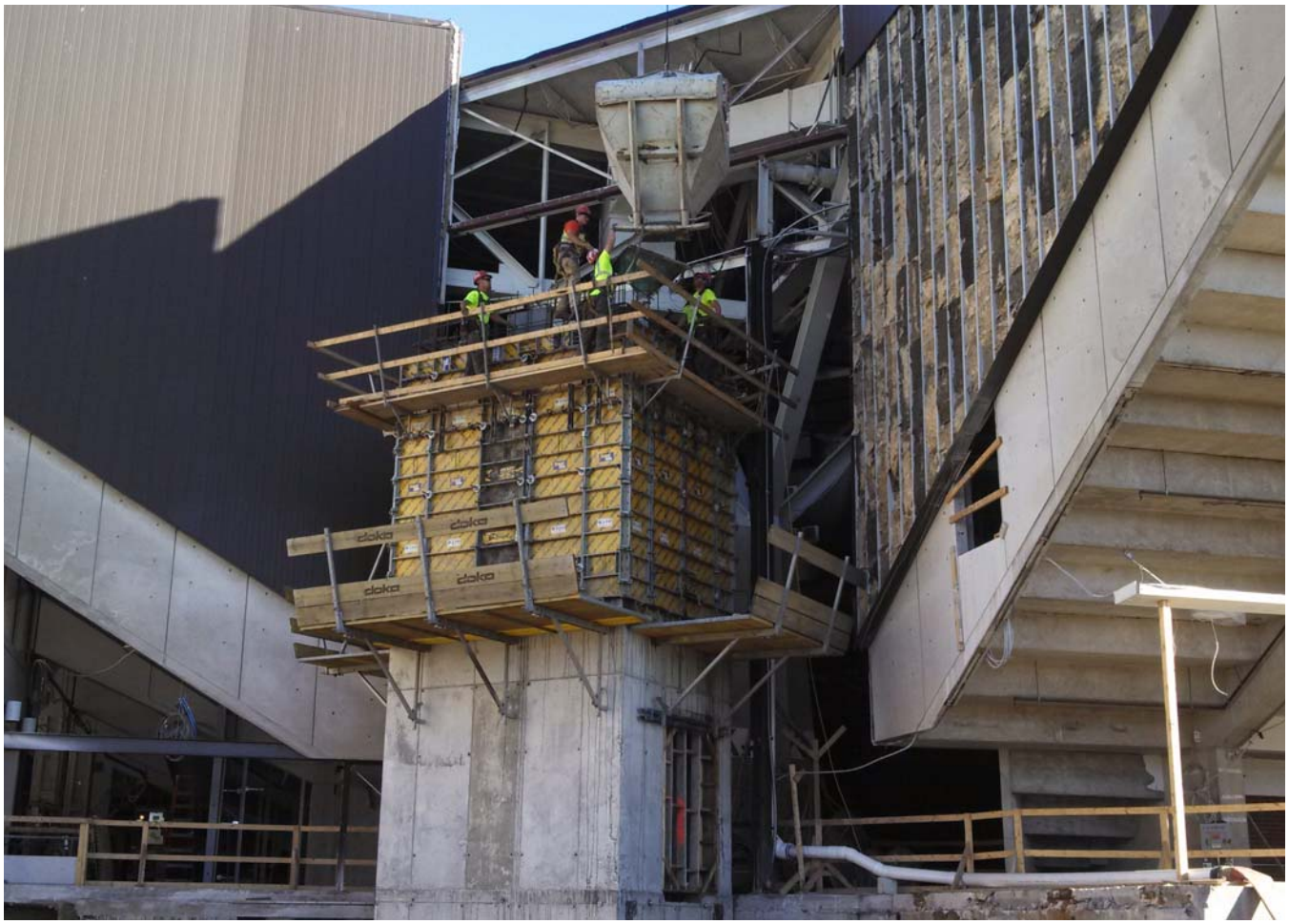
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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-30-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C Mechanical Level Footings: CA/C5 to CA/C2.8 including escalator and CC/C1 to CB/C1 and CD(-4') line, C2.3 line, CB.8(-8') line	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	2:30pm
		Left Site:	7:00pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Concrete bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete/crushed stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Concrete Foundation Sections and Details	2-28-13	S3.04	1
Concrete Foundation Sections and Details	3-1-13	S3.05	1
Mechanical Level Foundation Plan – Quad C	3-1-13	S2.03B	2
Barker Steel Quad C Exterior FND. Walls	3-29-13	R02C	2

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-36 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel observed prior to the placement. Epoxy dowels to existing (Barker Steel R02C elevation AA) and pier steel for CA/C2.8 had not been installed; both items were addressed prior to the placement. We understand that the connections to piers CA/C2 and CB.2/C1 adjacent to entry are planned for epoxy installation at footing level and mechanical dowels in wall sections. The escalator base was cast with wall footings as opposed to a single "mat footing" as shown on the project documents; we understand from conversations with Giles and Cianbro that changes are rooted to content of RFI#198, which approved elevation changes for ease of construction. Concrete field testing performed indicated mix placed was within project specifications.

Attachments: Photos Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	7-31-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B Event Level Loading Dock Wall BZ-line	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	2:25pm
		Left Site:	6:15pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Note	1-21-13	S0.01	3
Concrete Foundation Sections and Details	3-1-13	S3.05	1
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2
Barker Steel Quad B Loading Dock Walls Partial	5-14-13	R02D	1
Bruce Atlas Embed Layout Quad B and C	3-25-13	A201	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane and bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-37	←*refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

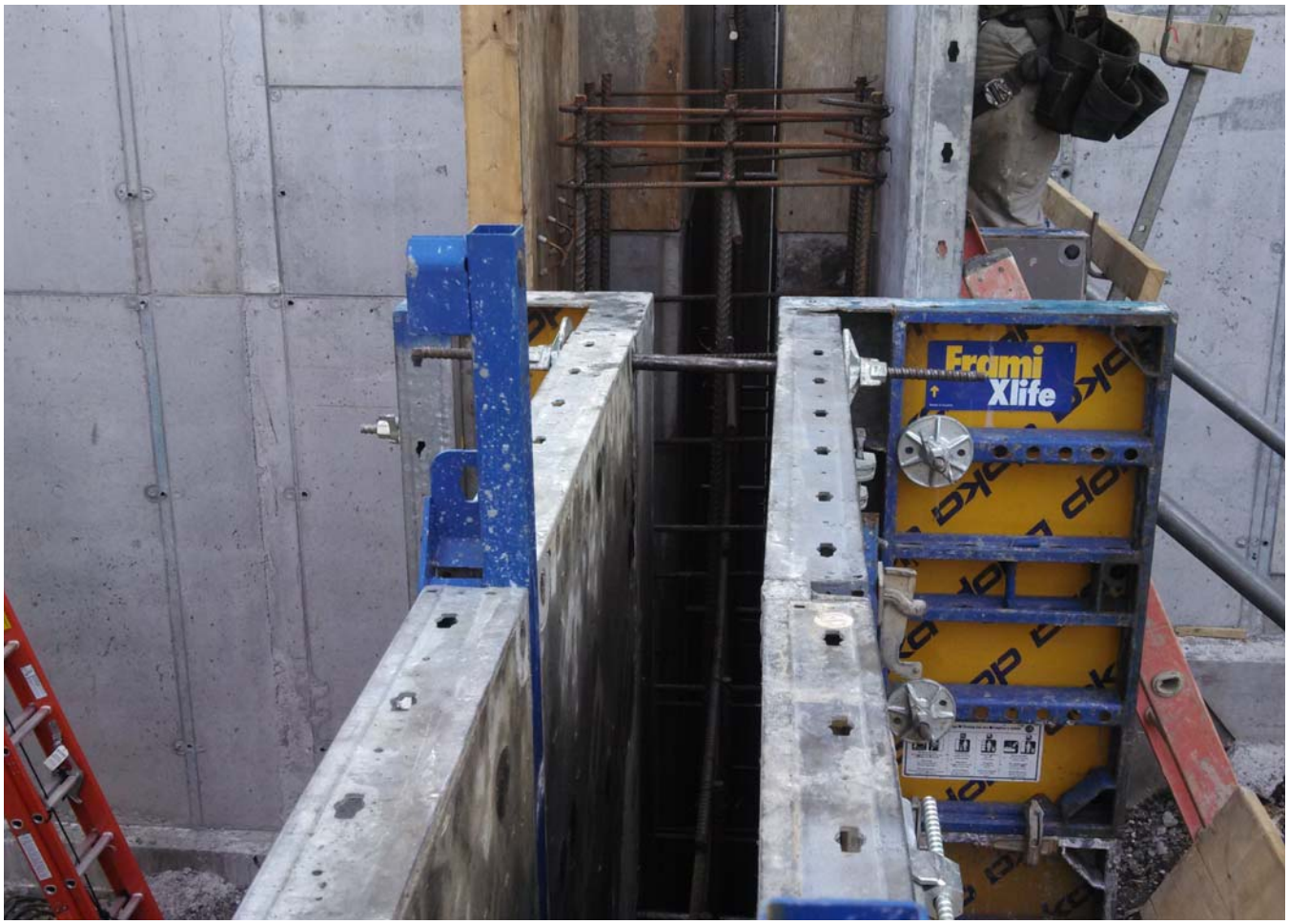
Notes:

Reinforcing steel observed prior to the placement generally appeared to have been installed in accordance with the above referenced documents, however, miscellaneous form detailing, installation of embed plate and anchor bolts were still being finalized at start of placement. All work was completed with the expectation of the anchor bolts at CE/C2, which were ultimately left out because Giles determined they would not fit; Cianbro is aware of the situation and will contact WBRC for direction. We understand that Giles plans on installing slab and masonry dowels later in today's placement area using drill and epoxy connections. Concrete field testing performed indicated mix placed was within project specifications.

We observed while on site that the vertical pier reinforcement at CB.2/C1 placed yesterday does not have sufficient length protruding above the footing for required splice; Giles/Cianbro are aware and will confirm that epoxy dowels can be added as needed.

Attachments: Photos

Reviewed By: RED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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-2-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D old ticket booth area slab infills Quad D elevator shaft walls to elevation 116.5'	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	6:30am
		Left Site:	2:45pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks slab, chairs wall
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2
Barker Steel Quad D Elevator	6-6-13	R01A	2
Bruce Atlas Embed Layout Quad B and C	3-25-13	A201	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air/slab, w/ air walls
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump slab, Crane/bucket walls
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-38 (slab)
412-39 (walls)

←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

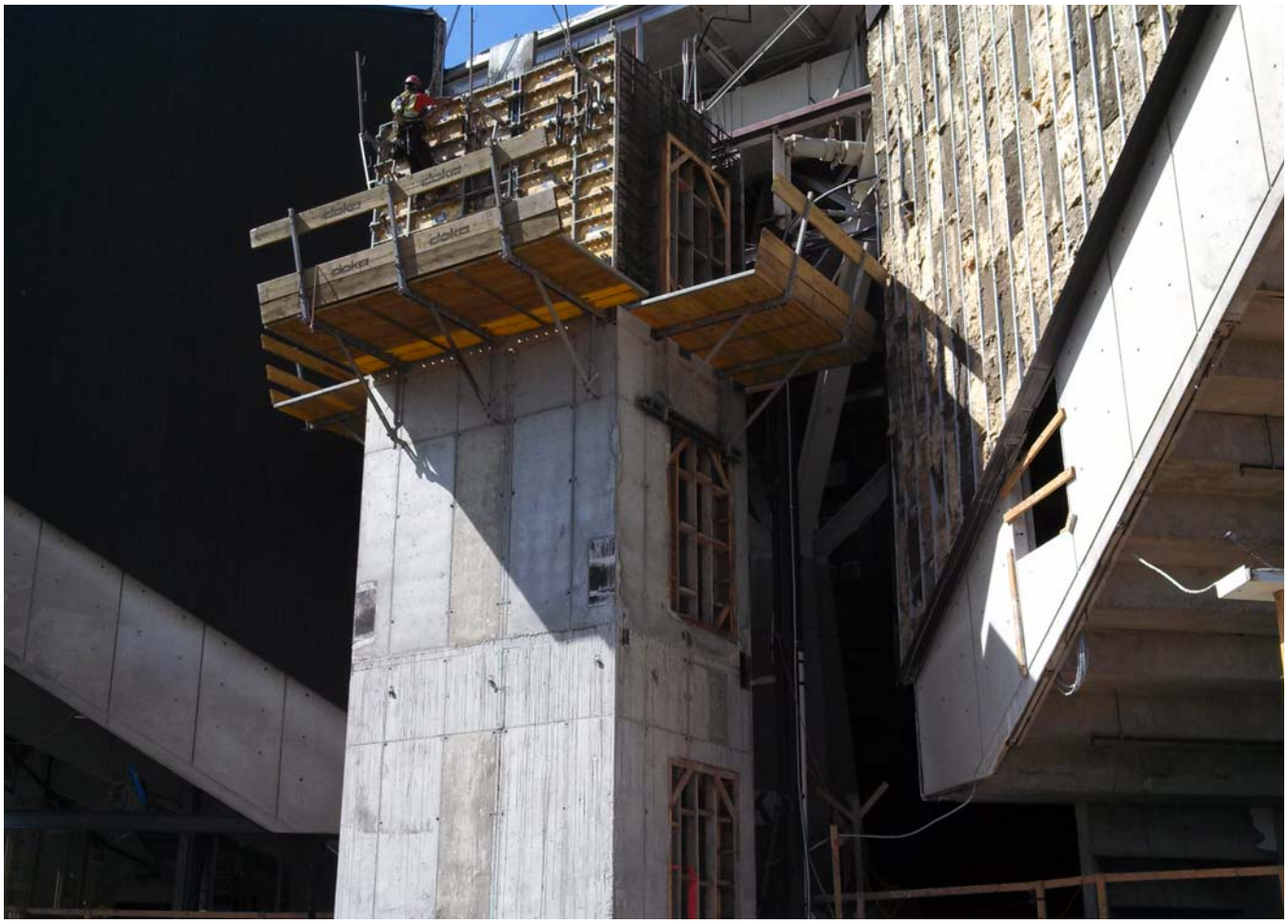
NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel observed for both of today's work areas prior to placement of concrete; both slab infill area and elevator wall section appeared to have been installed in accordance with the available project documents. Slab placed and finished by Pride Floors working under subcontract to Giles. Field testing for slab placement performed at point of placement. Concrete field testing performed for both placement areas indicated mix placed was within project specifications with respect to slump, air entrainment and mix temperature.

Attachments: Photos

Reviewed By: RED



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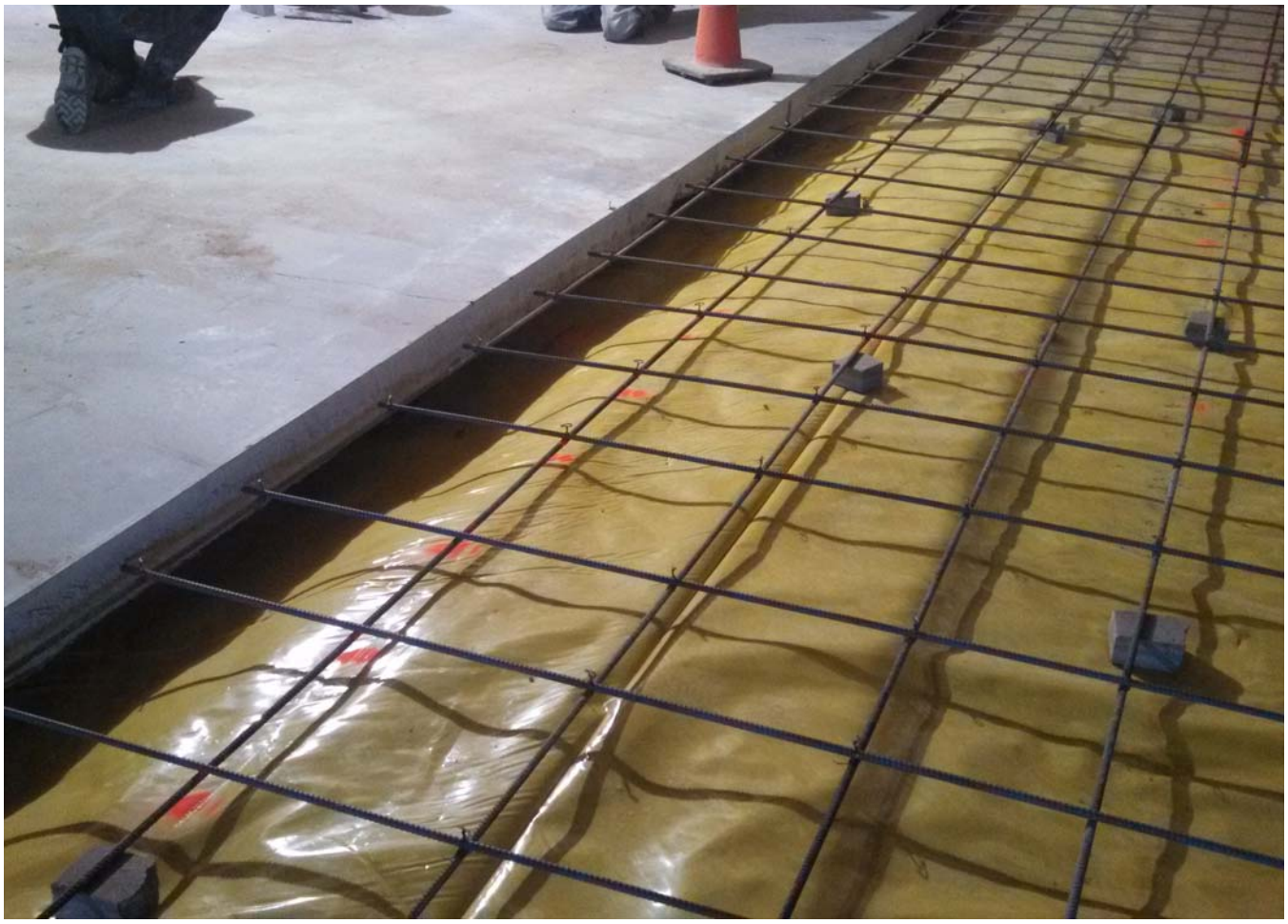


S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-5-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C elevator shaft walls to elevation 80 Quad C pier footings: CB/C1.8, CB/C2.8, CE/CY Quad B pier at CC/C3	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☐ Other ☒	**Arrived at Site:**	8:20am
		Left Site:	3:15pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks footings, chairs wall
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete @ columns

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad C	3-1-13	S2.03B	2
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2
Bruce Atlas Embed Layout Quad B and C	3-25-13	A201	1
Barker Steel Quad C Elevator Foundation	6-6-13	R02B	2

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane/bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-40 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel was observed prior to concrete placement in today's work areas and installation appeared to be in accordance with the available project documents. Concrete field testing performed indicated mix placed was within project specifications with respect to slump, air entrainment and mix temperature.

Attachments: Photos

Reviewed By: RED

Cumberland County
Civic
Center

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-7-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	CMP vault base slab Quad C footing: X10 to X13 (+15') on CA(-10')+/- Quad C wall: C5.3 to C3.6 on CA-line	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	8:50am
		Left Site:	3:15pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks footings, chairs wall
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete @ vault

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad C	3-1-13	S2.03B	2
Event Level Floor Framing Plan – Quad B	2-8-13	S2.13B	1
Bruce Atlas Anchor Bolts Layout Quad C	5-16-13	A101	3
Barker Steel Quad C Exterior Foundation Walls	2-22-13	R02C	2
Barker Steel Foundation Plan & Elevations (CMP)	3-12-13	R01	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air (4000 @ CMP)
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane/bucket (CMP and wall) tailgate w/ coal chute (footings)
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-41 (CMP) 412-42 (Giles)	←**refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes: Reinforcing steel was observed at each of today's three work areas prior to the placement of concrete. No issues were noted with reinforcing installation at the Quad C wall and footing areas, however, the CMP vault base was missing 6 standard hook bars needed to fill out the specified vertical spacing at structure corners; required bars were added prior to the placement. Spaulding Engineering representing CMP performed final inspection and observed placement of concrete at the CMP structure. Based on field testing performed, all concrete placed today was found to be within specification with respect to slump, air, and temperature.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-8-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C: Escalator mat slab Quad C wall: CD-line (-4') ETR to B1-line Quad C piers: C1.8 and C2.8 on CB-line	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☐ Other ☒	**Arrived at Site:**	9:00am
		Left Site:	3:15pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete @ escalator

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad C	3-1-13	S2.03B	2
Event Level Foundation Plan – Quad B	2-8-13	S2.12B	1
Bruce Atlas Embed Layout Quad B and C	3-25-13	A201	1
Bruce Atlas Anchor Bolt Layout Quad C	5-16-13	A101	3
Barker Steel Quad C Interior Walls	4-25-13	R02F	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane/bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

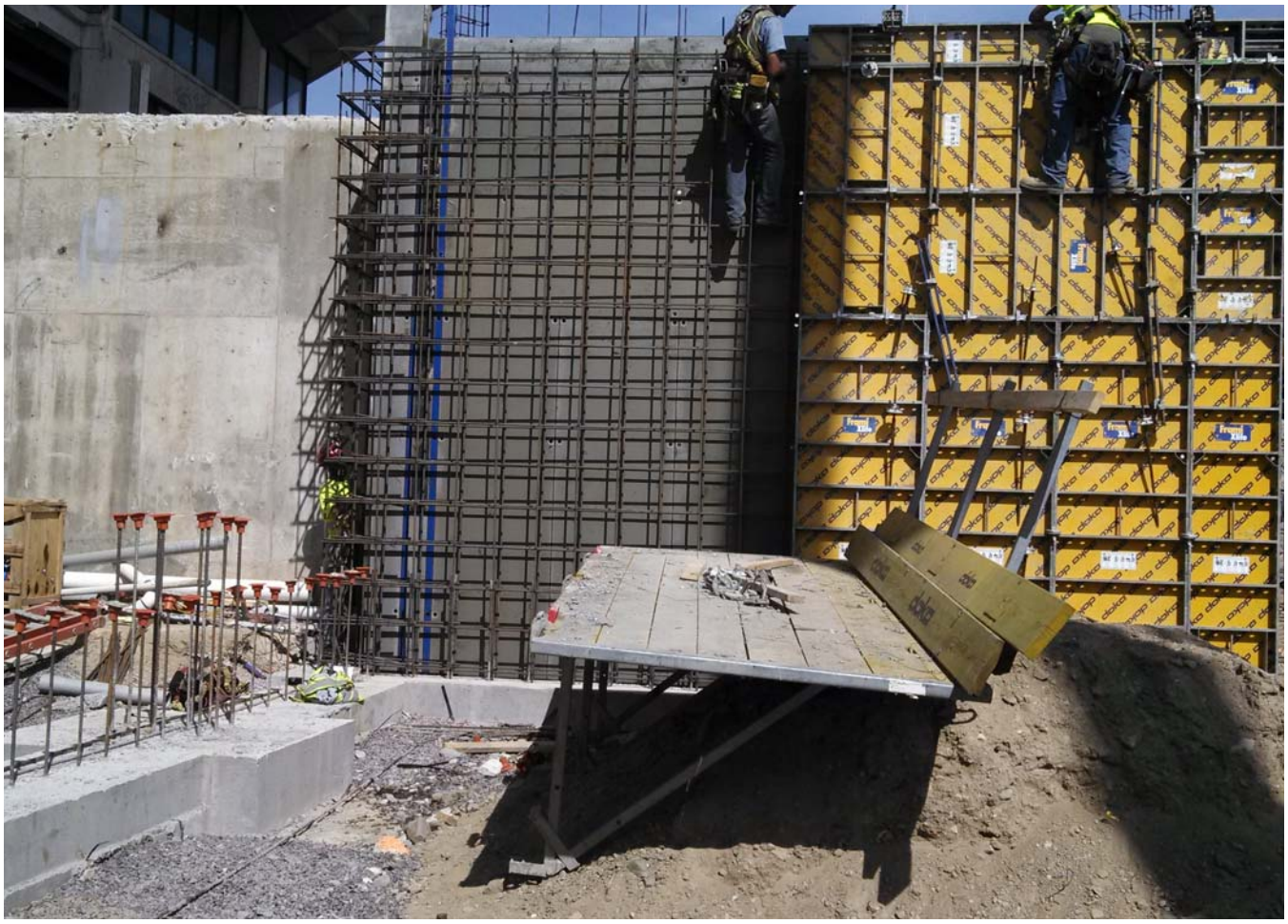
***CYLINDER SET NO:** 412-43 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes: Reinforcing steel observed prior to the placement appeared to have been installed in general accordance with the above referenced documents. Epoxy dowels were installed into ETR wall as required. With respect to clearances and coverage, minor changes were made as needed prior to placing concrete and the vertical pier reinforcing at C1.8/CB needed to added onto with a splice bar. Slab dowels at top of wall were not installed; we understand Giles plans on a drill/epoxy installation. Work at the escalator area appeared to be in accordance the intent conveyed in RFI #462. Concrete field testing performed indicated that mix placed was within project specifications.

Attachments: Photos Reviewed By: RED



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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-14-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D: Interior strip footings Quad C: Elevator walls to elevation 94' 11" and CA-line wall from C3.6 to C2.3 including escalator walls and perpendicular high wall to elevator Quad B: 4 high columns loading dock area	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☒ Column ☒ Slab ☐ Other ☐	**Arrived at Site:**	8:10am
		Left Site:	6:15pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs walls, bricks footings
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete @ bearing wall

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad C	3-1-13	S2.03B	2
Event Level Foundation Plan – Quad B	2-8-13	S2.12B	1
Bruce Atlas Embed Layout Quad B and C	3-25-13	A201	1
Bruce Atlas Anchor Bolt Layout Quad C	5-16-13	A101	3
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane/bucket, conveyor @ columns
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-44 & 45 ←**refer to associated concrete test report*

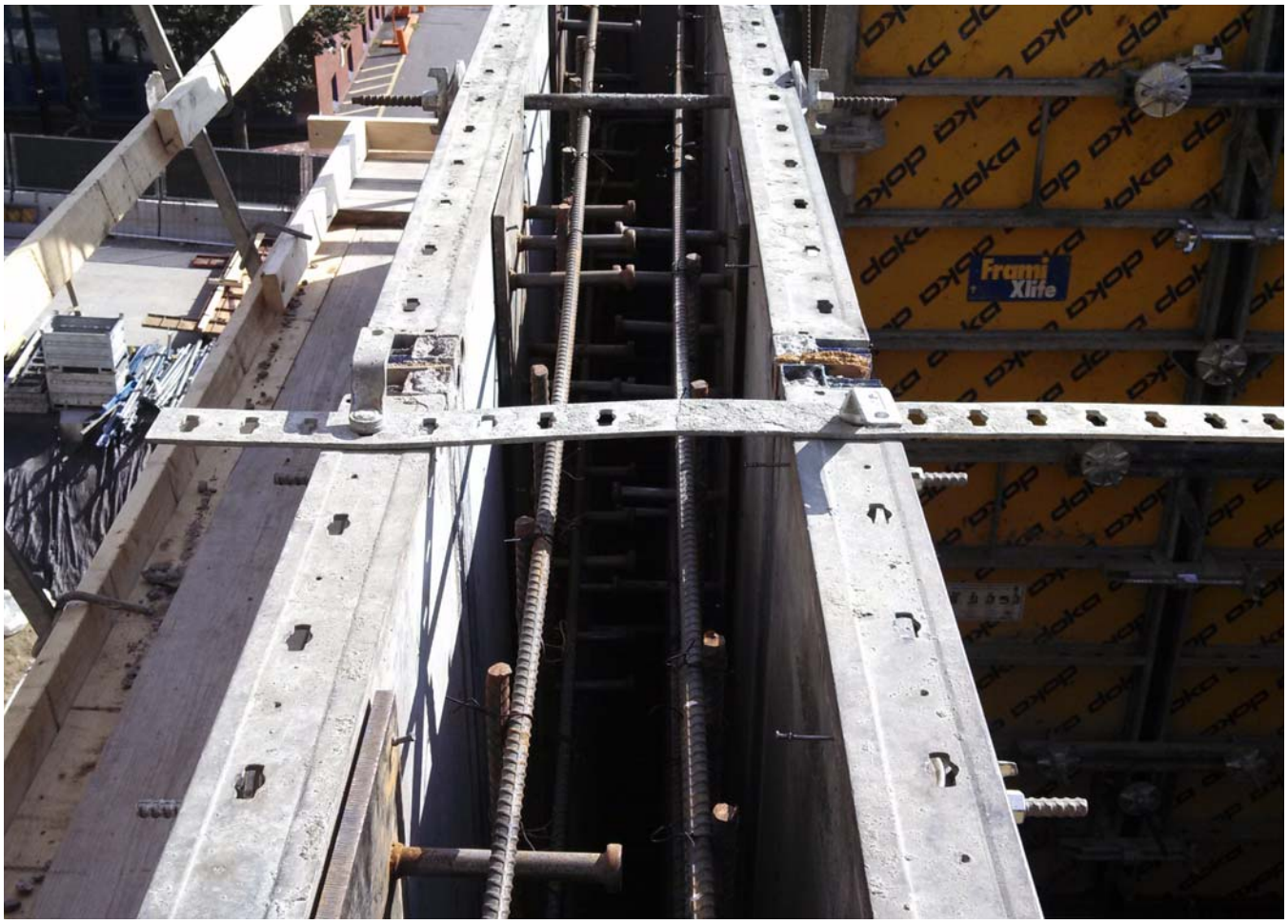
POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes: Reinforcing steel 8-13-13 and 8-14-13 prior to the placement; general installation appeared per plan, but minor clearance adjustments and some splice bars were added as needed to comply with general notes requirements. Concrete placed was generally consistent throughout the day, however, the first load used at Quad B columns appeared typical when first mixed, but exhibited signs of rapid hydration mid load; discussed with Giles and last yard not used. At column near BY/B1, about 4-feet of the tremie trunk was cut off and abandoned in placement after it became stuck.

Attachments: Photos Reviewed By: RED

Cumberland County
Civic
Center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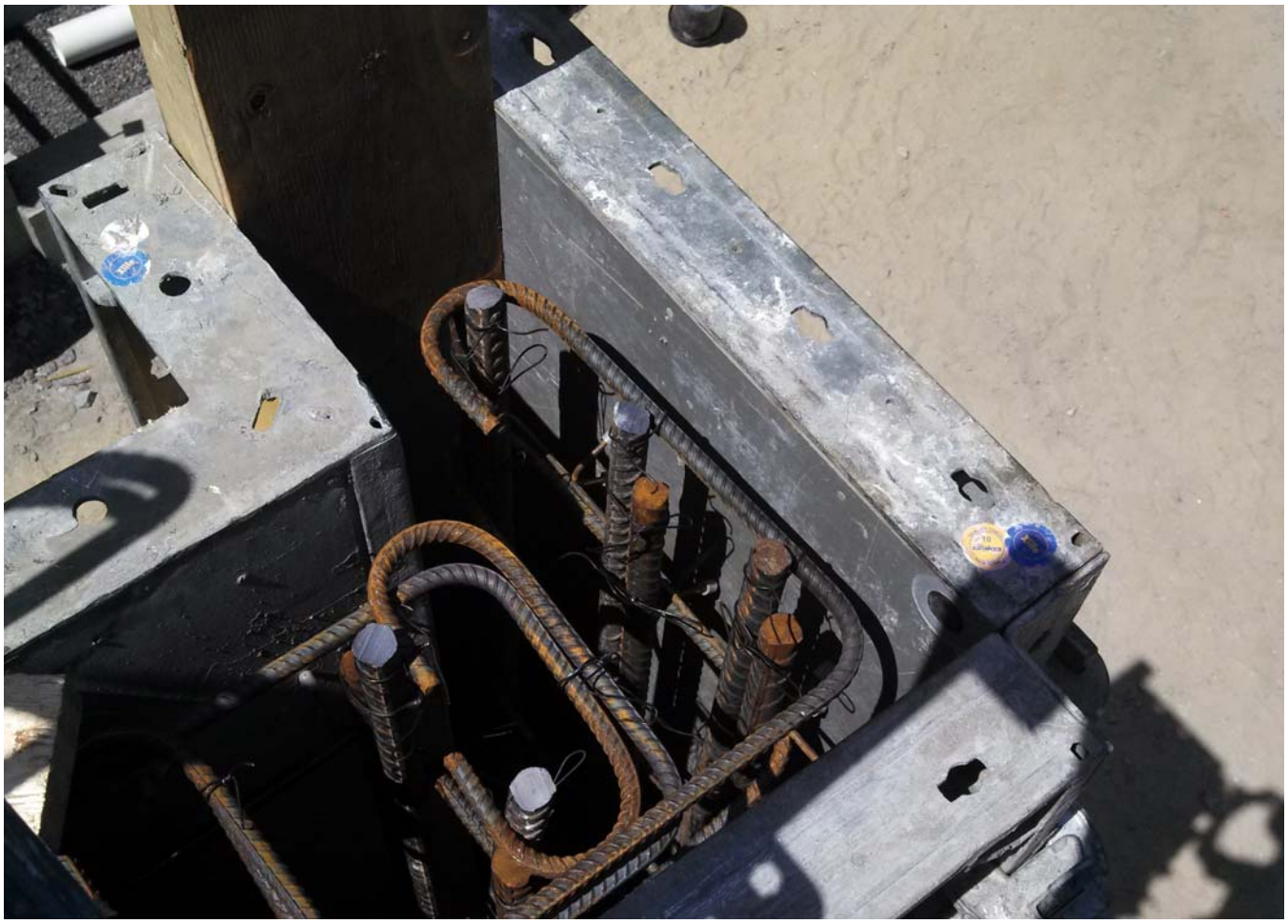


S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-15-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	CMP vault walls	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	9:25am
		Left Site:	5:40pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	Full length sticks
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Barker Steel - CMP Transformer	3-12-13	R01	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	4000 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane/bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-46 & 47	←*refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes: General installation of reinforcing steel observed, but the final official inspection was performed by Spaulding Engineering (Steve) prior to the placement. Concrete placed by Eric Leone working under subcontract to N.S. Giles. Field concrete testing performed indicated that mix placed was within project specifications with respect to slump, mix temperature and entrained air content.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-16-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C: Event Level wall between x10 and x13 Quad C: Mechanical Level interior wall on lines C2.3 and CC (-8')	**SWCE Rep.:**	KBG/AM
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	12:25pm
		Left Site:	3:25pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad C	3-1-13	S2.03	2
Event Level Floor Framing Plan – Quad C	2-8-13	S2.13B	1
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Barker Steel Quad C Event Level Entry	3-6-13	R02A	1
Bruce Atlas Anchor Bolt Layout Quad C	5-16-13	A101	3

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump event level wall, crane/bucket mechanical level
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-48	←*refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes: Observations of reinforcing steel were made on 8-15-13 and today prior to the placement. No issues were noted with respect to mechanical level wall section. Reinforcing steel at the event level wall generally appeared as per plans, however adjustments were needed to achieve specified clearances and coverage. Vertical reinforcing for the planter wall section was installed for a 12-inch wall when footings were cast; additional epoxy vertical bars were added as proposed by Giles and approved by WBRC. Concrete field-testing performed indicated that mix placed was within project specifications.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-20-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B: Footing CD to CE on C1 Quad C: Wall CB.2 to CB.8 on C1 and C2 to C2.3 on CA	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	2:45pm
		Left Site:	5:45pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs / bricks as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete at columns

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad C	3-1-13	S2.03	2
Event Level Floor Foundation Plan – Quad B	3-1-13	S2.12B	2
Concrete Foundation Sections and Details	2-8-13	S3.04	1
Bruce Atlas Anchor Bolt Layout Quad C	5-16-13	A101	3

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane / bucket
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-49	←*refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

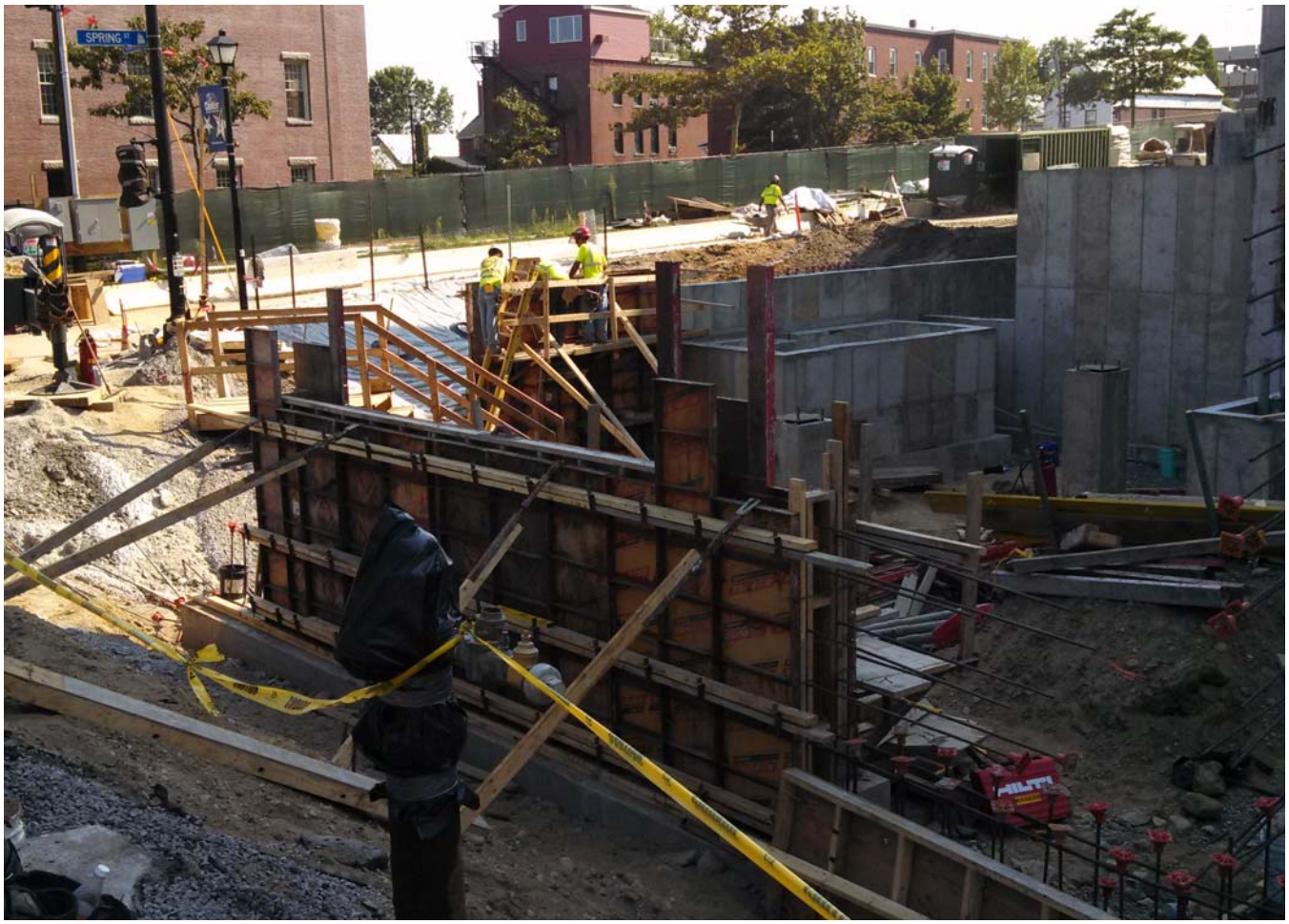
NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes:

Observations of reinforcing steel were made prior to the placement; minor adjustments were made as needed to provide required clearances. Reinforcing appeared to have been installed in general accordance with the above referenced plans. Concrete field testing performed indicated mix placed was within project specifications with respect to slump, air entrainment and mix temperature.

Attachments: Photos

Reviewed By: RED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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-22-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C: Piers at CB/C5, CB/C6 and CB.8/C5.3 Quad D: Interior load bearing masonry walls	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☒ Slab ☐ Other ☐	**Arrived at Site:**	11:00am
		Left Site:	7:45pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	See notes
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad C	3-1-13	S2.03	2
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Concrete Foundation Sections and Details	2-8-13	S3.04	1
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane / bucket, buggy @ piers
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-50 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

The three P36 piers were originally planned for placement on 8-21-13, however, although the general reinforcing pattern appeared per plan, the ties had been stopped below the bottom of the existing slab stems; after discussions with WBRC, the placement was postponed until today to allow reinforcing to be added as required. Following the installation of reinforcing, the two CB-line piers appeared consistent with detail F64 on S.304, but due to conflicts with existing concrete stems below the event level slab on three sides, rebar added at CB.8/C5.3 was limited to a single 12-inch wide stirrup. WBRC was contacted and accepted the as-built condition. The reinforcing for wall sections placed was inspected prior to the placement and general installation appeared to be in accordance with the applicable plans and details; minor adjustments were made as required with respect to clearances. Vertical reinforcing protruding above wall section near elevator too short for required splice; additional masonry dowels will need to be drilled and epoxied. Concrete field testing performed indicated that mix placed was within project specifications.

Attachments: Photos Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-23-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B: Walls CD to CE on C1-line	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	10:45am
		Left Site:	8:00pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2
Barker Steel Quad C exterior foundation walls	2-22-13	R02C	2
Bruce Atlas Embed layout Quad B and C	3-25-13	A201	1
Bruce Atlas Anchor Bolt Layout Quad C	5-16-13	A101	3

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Crane / bucket and conveyor
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-51 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Wall section placed today was originally scheduled for placement yesterday, but Giles was not ready and final detail work and adjustments were still in progress when the placement finally started today. Giles used both crane/bucket and belt conveyor simultaneously to minimize time required to place concrete. Reinforcing was observed during construction, as well as prior to the placement. Some adjustments were required and made with respect to clearances and coverage, but installation generally appeared to be in accordance with the above referenced project documents. Slab dowels at door opening will be drill/epoxy installed later. Concrete field-testing performed indicated that mix placed was within project specifications with respect to slump, entrained air and temperature. Giles is scheduled to strip formwork Saturday the 24th to allow backfill to begin Monday the 26th.

Attachments: Photos

Reviewed By: RED

N.S. GILES
FOUNDATIONS, INC.

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-26-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B: Pier at CE/C4	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☒ Slab ☐ Other ☐	**Arrived at Site:**	9:45am (soils)
		Left Site:	3:30pm (soils)

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan – Quad B	3-1-13	S2.12B	2
Bruce Atlas Anchor Bolt Layout Quad C	5-16-13	A101	3

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	tailgate
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-52	←**refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes:

We were on site performing in-situ soil density testing and Giles wanted to place pier at CE/C4 that had been completed Friday, but ran out of time and could not place. Reinforcing appeared to have been installed in accordance with the applicable design documents. Placement was only 3-yards, but a set of test specimens was cast to have data on pier; full field testing not performed.

After forms have been removed from various placement areas, "rock pockets" and occasionally small amounts of exposed reinforcing have been observed presumably due to improper placement or consolidation of concrete. We discussed general observations with Cianbro and WBRC and understand Cianbro has been communicating with WBRC where they note potential issues and that WBRC has been inspecting finishes during their site visits. We understand WBRC will recommend remedial work where determined to be necessary.

Attachments: Photos

Reviewed By: RED

CAT

S.W.COLE ENGINEERING, INC. • Geotechnical Engineering • Field & Lab Testing • Scientific & Environmental Consulting

CONSTRUCTION OBSERVATION REPORT

Project: Cumberland County Civic Center Renovations
Client: Cumberland County Recreation Center
Client's Rep.: Carl Cooke/Frontline Construction

SWCE Project No.: 12-0034.1
Date: 8-27-13
Weather: Sunny, 80s.

Work in Progress: N.S. Giles: Installation of anchor bolts at column locations CC/C3 and CE/C2.

Work Performed by SWCE: Observed installation of anchor bolts.

General Observations, Discussions, Etc: Giles coordinated installation of anchor bolts such that we could make observations while on site for placement and density testing of foundation backfill material. Anchor bolt holes were drilled using an 1⅛-inch diameter carbide tipping rock bit to a depth of 14-inches after which the holes were cleaned with 1¼-inch wire brush and a vacuum. The 20-inch long 1-inch diameter threaded rods (A193 Grade B7) were set in Hilti HIT-HY 200-A epoxy which was injected using the manufacturer's system. We contacted WBRC (Adam) prior to the installation and confirmed that the supplied grade of threaded rod was an acceptable alternative to the Hilti HAS rods specified in the governing RFIs. Installation of anchor bolts at both CC/C3 and CE/C2 appeared to conform to requirements of RFI 464 and 481 as well as our understanding of the required installation procedures.

Concrete did not completely fill in the top of piers CB/C5 and CB/C6 (placed last week) where existing floor beams were present in the middle of the placement area. We understand a secondary access hole will be cored at the event level and the void spaces will be in-filled with high strength grout.

On Site: 9:00 – 3:30 (soil densities)
Attachments: Photos

SWCE Rep.: K. Gimpel
Rev. by: RED

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GRAY, ME OFFICE
286 Portland Road, Gray, ME 04039, Tel (207) 657-2866, Fax (207) 657-2840, (E) infogray@swcole.com, (I) www.swcole.com

The SWCE field representative is on-site at the request of our client to provide construction materials testing and to observe and document construction activities. The contractor has sole responsibility for schedule, site safety, methods, completeness and quality of the work.

THREAD ROD,A194
GRADE B7, PLAIN (INCH)
1-8X6'
Hilti HIT-HY 200-A
2022791
330 ml / 590 g
11.1 fl.oz / 20.8 oz

CAT
320C

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-28-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B: Pier at CA/C6	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☒ Slab ☐ Other ☐	**Arrived at Site:**	8:00am (soils)
		Left Site:	4:00pm (soils)

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad	3-1-13	S2.03B	2
Bruce Atlas Anchor Bolt Layout Quad C	5-16-13	A101	3
Concrete Foundation Sections and Details	2-8-13	S3.04	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Power buggy
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-53	←*refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes:

While on site for soils observations and in-situ density testing, a small concrete placement was coordinated to finish the last of the P36 piers in the mechanical space of Quad C. Reinforcing observed prior to the placement appeared to have been installed per detail F64 on S3.04. A second small access hole was made in the existing event level slab to allow vibrator to be inserted on both sides of the existing slab stem. Concrete field testing performed indicated that mix placed was within project specifications.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	8-30-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C: Slab on grade mechanical space @ elevation 50'10" and entry footing NE corner	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	6:30am
		Left Site:	1:30pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks 4'o.c.
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Compacted crushed stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad	3-1-13	S2.03B	2
Typical Concrete Foundation Sections and Details	3-1-13	S3.01	3
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2
Barker Steel Quad C Exterior Walls	3-29-13	R02C	2

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi (no air at slab)
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump (slab), tailgate (footing)
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	For footings
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-54 (slab)
412-55 (footing)

←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

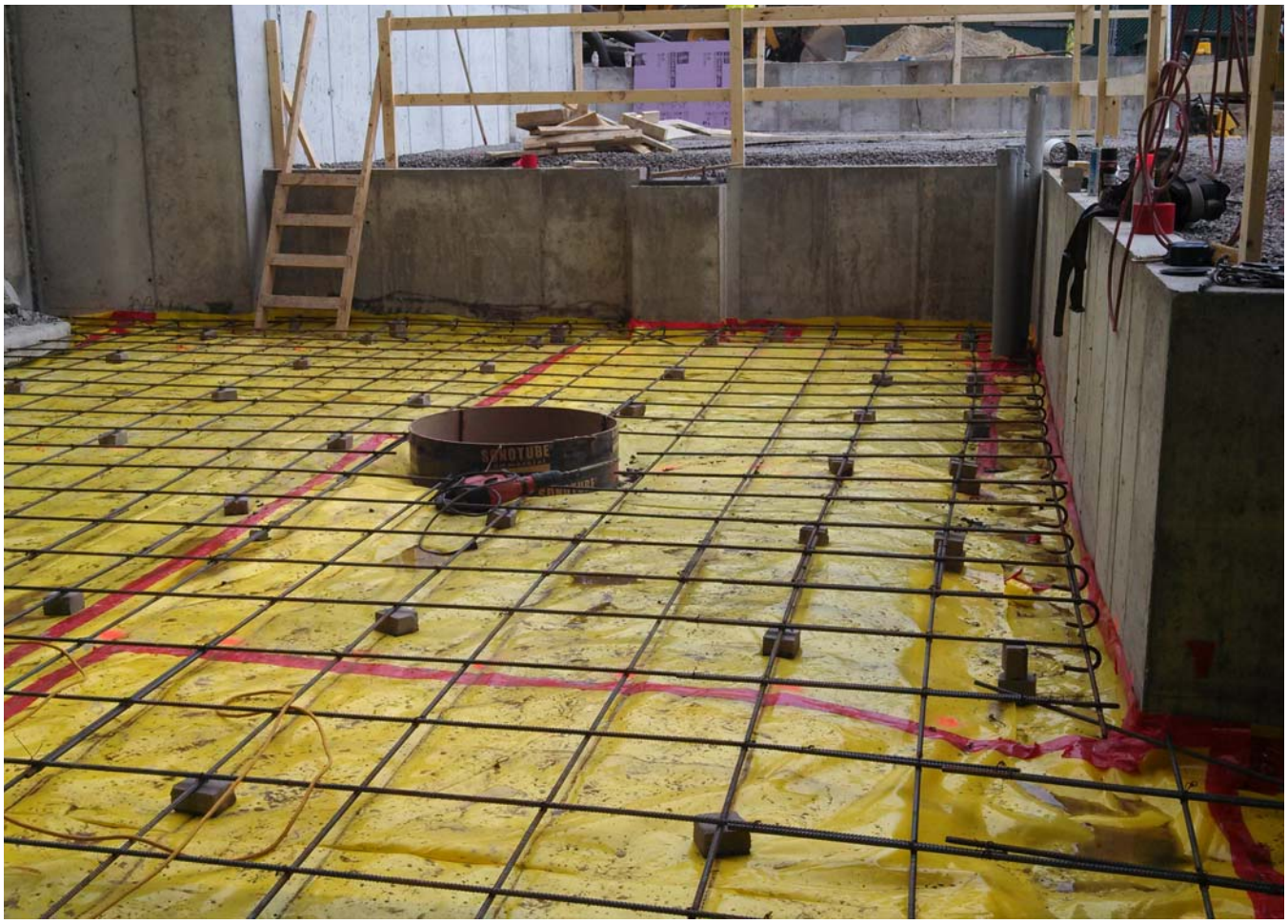
NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing was observed on 8-29-13 while we were on site for soils observations and testing; reinforcing steel appeared to have been installed in accordance with the applicable project documents. Concrete field-testing performed indicated that mix placed was within project specifications with respect to slump, air and temperature. One load delivered for the slab was sent back unused after initial observations and testing found slump to be out of specification. Concrete was placed and finished by Pride Floors working under subcontract to N.S. Giles. We understand that WBRC approved use of a chemical curing compound rather than wet cure for this slab section.

Attachments: Photos

Reviewed By: RED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S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	9-3-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C: Entry Wall SE Cr. Quad D: Wall along x2.2 between xH & xK and Pier Footing @ xH/x6.	**SWCE Rep.:**	R. Domingo
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	6:30am
		Left Site:	1:30pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs (walls)
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete (pier)

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan Quad D	3-1-13	S2.14B	4
Typical Concrete Foundation Sections and Details	2-8-13	S3.04	1
Mechanical Level Foundation Plan Quad C	3-1-13	S2.03B	2
Barker Steel Quad C Exterior Walls	3-29-13	R02C	2
Barker Steel Quad D Interior Walls	3-27-13	R01C	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Belt
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-56 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

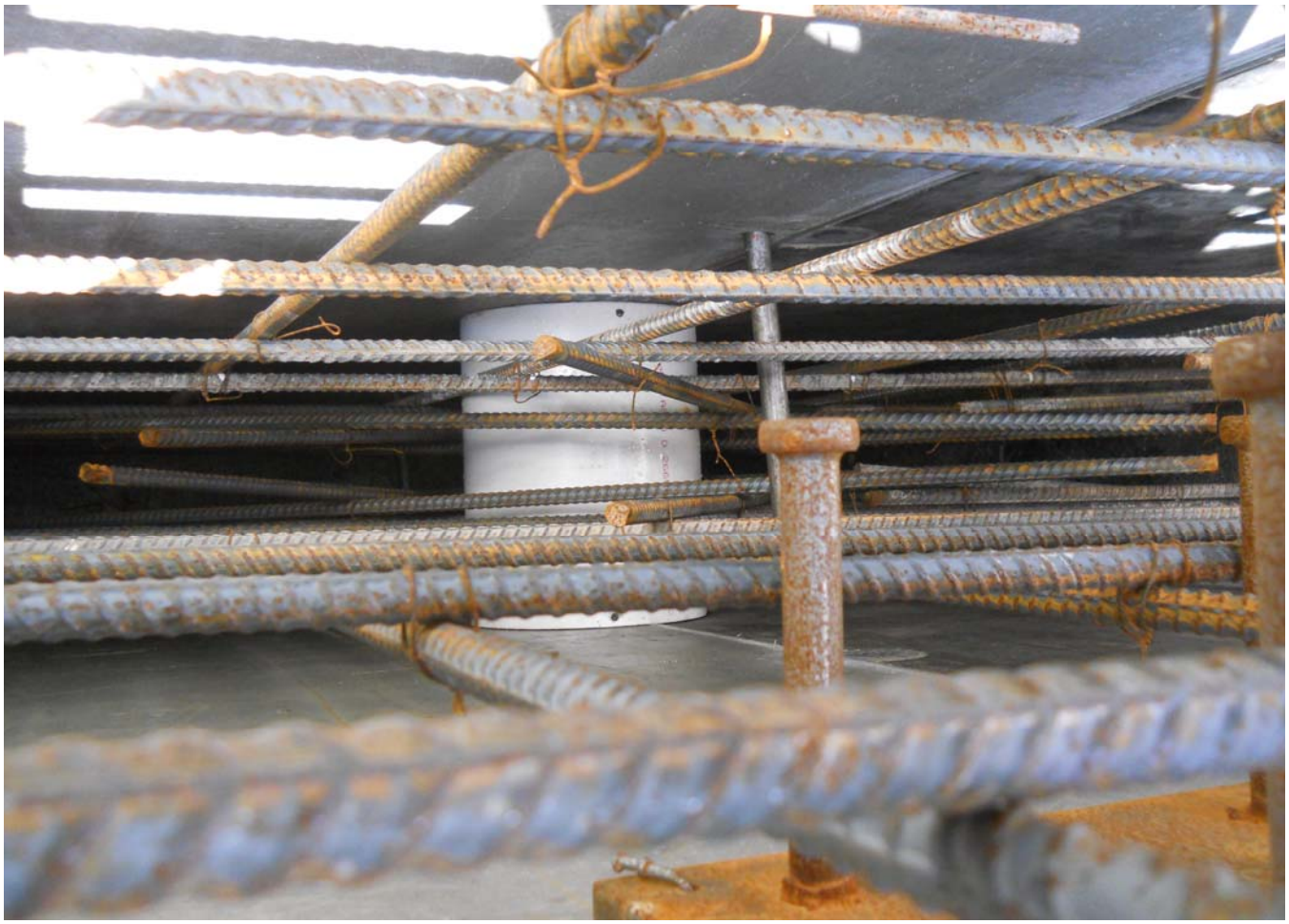
NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

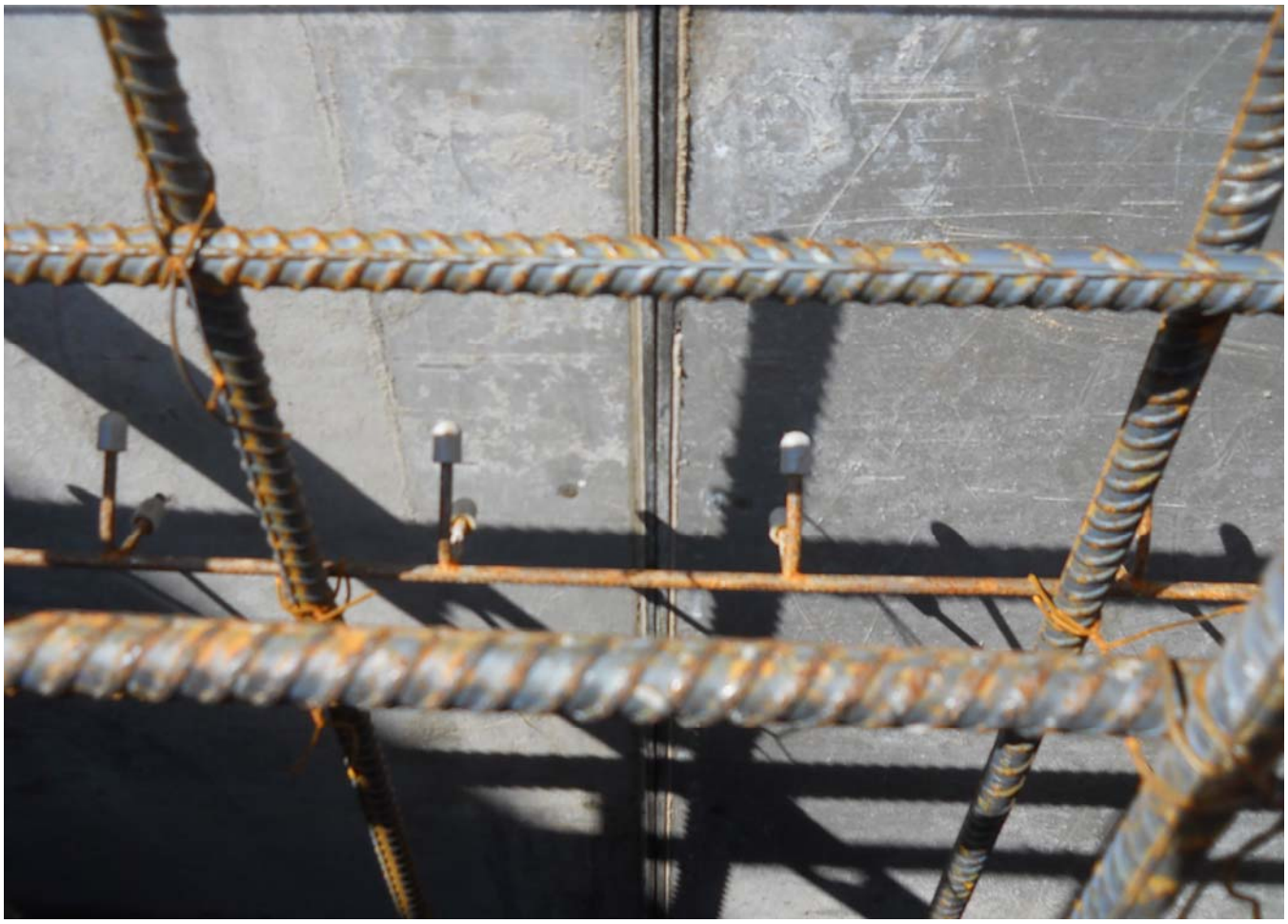
Notes:

Reinforcing observed appeared to have been installed in accordance with the applicable project documents. Concrete field-testing performed indicated that mix placed was within project specifications with respect to slump, air and temperature.

Attachments: Photos

Reviewed By: KBG





S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	9-6-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D: Interior wall on xKA-line and D1(-5')-line Quad D: Footings on DA-line between x1 and x4	**SWCE Rep.:**	R. Domingo C. Cromwell
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	9:00am
		Left Site:	2:30pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs (wall), bricks (footing)
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete @ piers

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan Quad D	3-1-13	S2.14B	4
Typical Concrete Foundation Sections and Details	2-8-13	S3.04	1
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2
Typical Concrete Foundation Sections and Details	3-1-13	S3.01	3
Barker Steel Quad C Exterior Walls	3-29-13	R02C	2
Barker Steel Quad D Interior Walls	3-27-13	R01C	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Belt
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-57 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing was observed prior to the placement and it appeared to have been installed in accordance with the applicable project documents. N.S. Giles indicated that slab dowels will be wet stuck. Concrete field-testing performed indicated that mix placed was within project specifications with respect to slump, air and temperature.

Attachments: Photos

Reviewed By: KBG

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	9-11-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B: Loading dock composite roof slab	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	10:00am
		Left Site:	4:30pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar dia, staggered 6'
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs 4' O.C.
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Loading Dock Roof Framing Plan – Quad B	2-8-13	S2.22B	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air (exposed slab)
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	pump
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☐	No ☐	☐	Vibrating screed
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-58 & 59 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

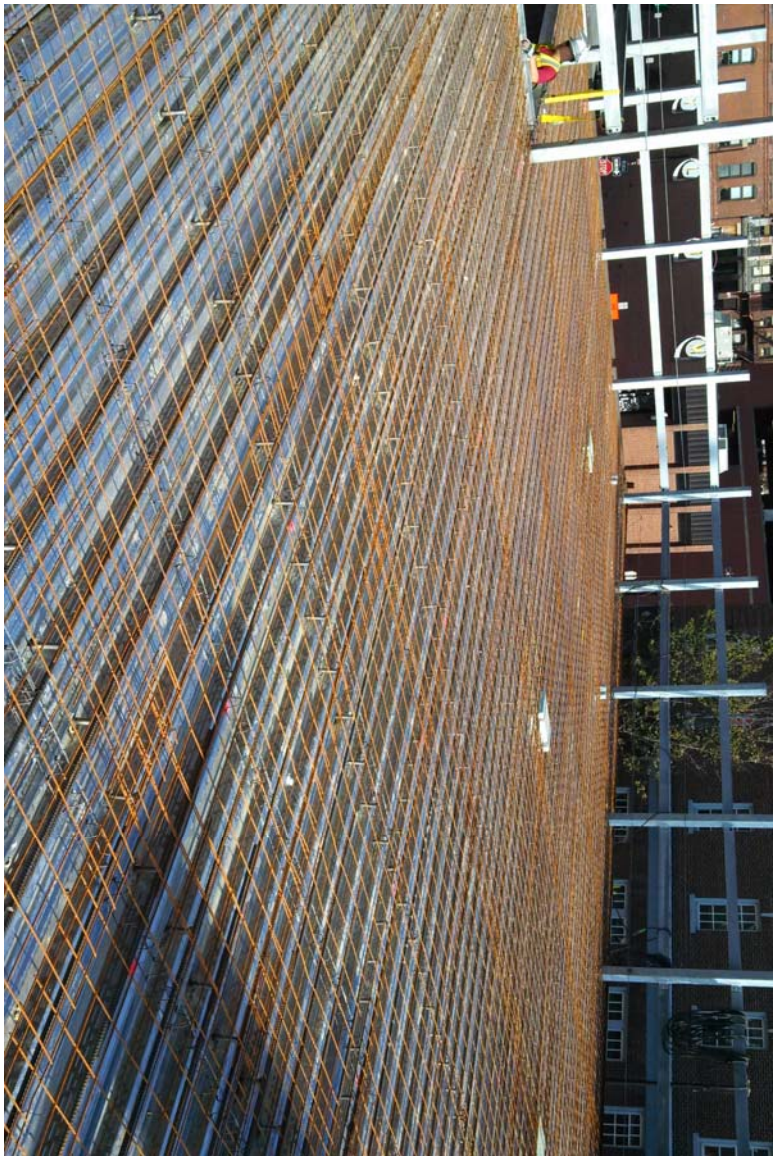
Notes:

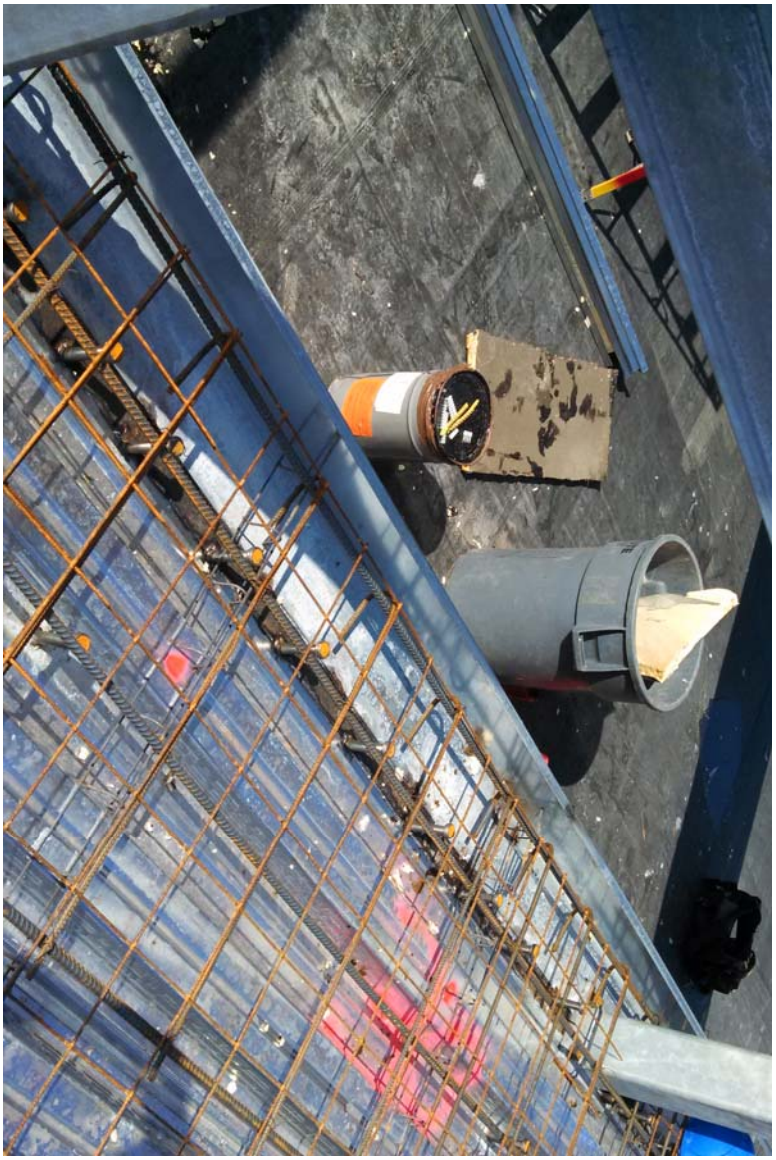
Slab reinforcing observed appeared to have been installed in general accordance with the above referenced project documents. Concrete field testing was performed at the point of placement and results indicated that mix placed was within project specifications. Slab placed and finished by Pride Floors working under subcontract to N.S. Giles.

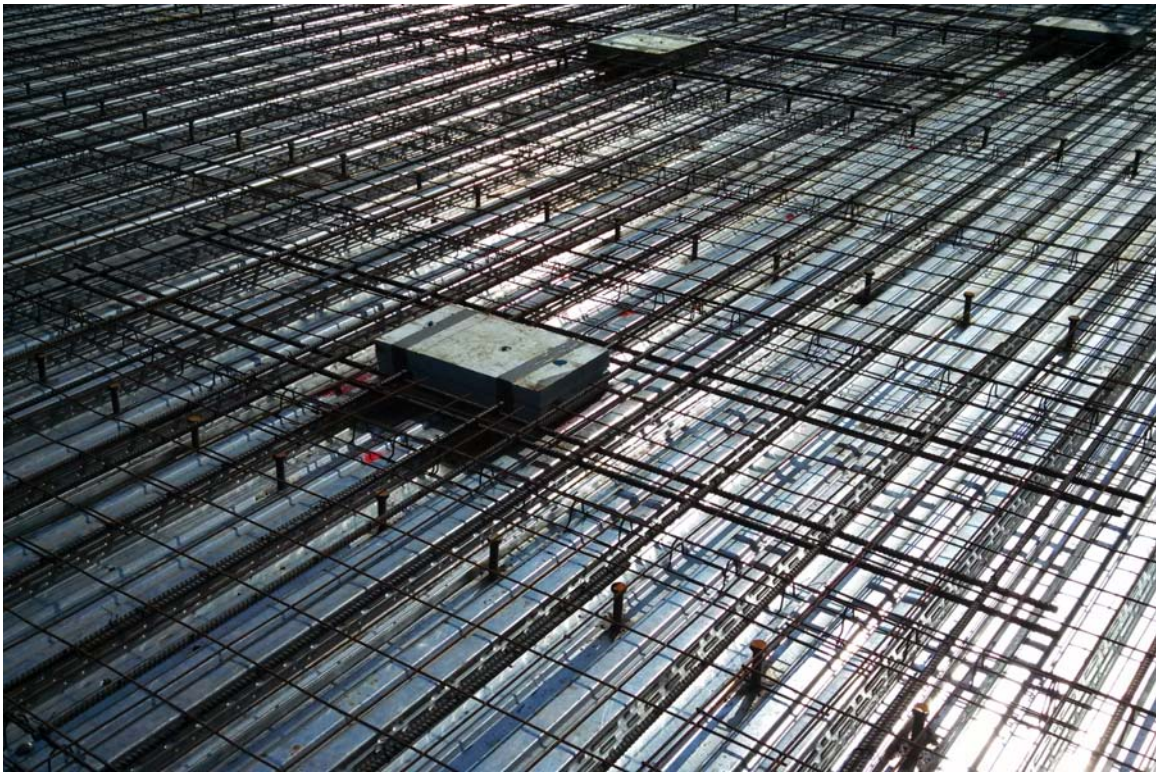
A second wall placement planned for Quad D today was postponed until tomorrow while final detail work is being completed. Observations of in-progress reinforcing made today while on site and a final inspection will be made tomorrow prior to the placement.

Attachments: Photos

Reviewed By: RED







S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	9-12-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D: DA-line walls including entry foundations between x1 and x4-line and wall section on D2-line	**SWCE Rep.:**	K. Gimpel/C. Cromwell
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	11:40am
		Left Site:	4:30pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2
Concrete Foundation Sections and Details	2-8-13	S3.04	1
Barker Steel Quad D Exterior Foundation Walls	3-27-13	R01B	2
Beauce Atlas Anchor Bolts Layout Quad D	2-13-13	A102	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	pump
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-60 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel observed prior to the placement generally appeared per plans and details, however, minor adjustments were required (and made) to provide specified spacing and coverage. Also, top horizontal bars at one entry (F11/S3.00) and "u bars" at wall ends (F06/S3.00) had not been installed; the required reinforcing was added as needed prior to the placement. Slab dowels were planned for drill/epoxy or wet stick installation. Concrete field tests performed indicated that mix placed was within specification.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	9-16-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D: DA-line footings from x4 to D3 including the remainder of D2.6-line	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☐ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	On site for masonry & subgrade
		Left Site:	4:00pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Concrete bricks
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean at columns

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2
Concrete Foundation Sections and Details	2-8-13	S3.04	1
Barker Steel Quad D Exterior Foundation Walls	3-27-13	R01B	2
Beauce Atlas Anchor Bolts Layout Quad D	2-13-13	A102	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi with air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	tailgate
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☒	No ☐	☐	

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-62 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:
Reinforcing steel observed prior to the placement appeared to have been installed in accordance with the applicable plans and details. Concrete field tests performed indicated that mix placed was within specification.

Attachments: Photos

Reviewed By: RED

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	9-18-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D: Footing on DA-line between D3 and D6 Quad D: Wall on DA-line between D2 and D3 Quad C: Slab infill event level x10 to x13	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	7:20am
		Left Site:	3:20pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	As needed
Reinforcement free from mud, oil, rust, or other nonmetallic coatings	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean at columns

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2
Concrete Foundation Sections and Details	2-8-13	S3.04	1
Barker Steel Quad D Exterior Foundation Walls	3-27-13	R01B	2
Beauce Atlas Anchor Bolts Layout Quad D	2-13-13	A102	1
Beauce Atlas Embed Layout Quad D	3-25-13	A202	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi (no air at slab)
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Belt conveyor
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-65 (slab)
412-66 (wall/footing)

←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

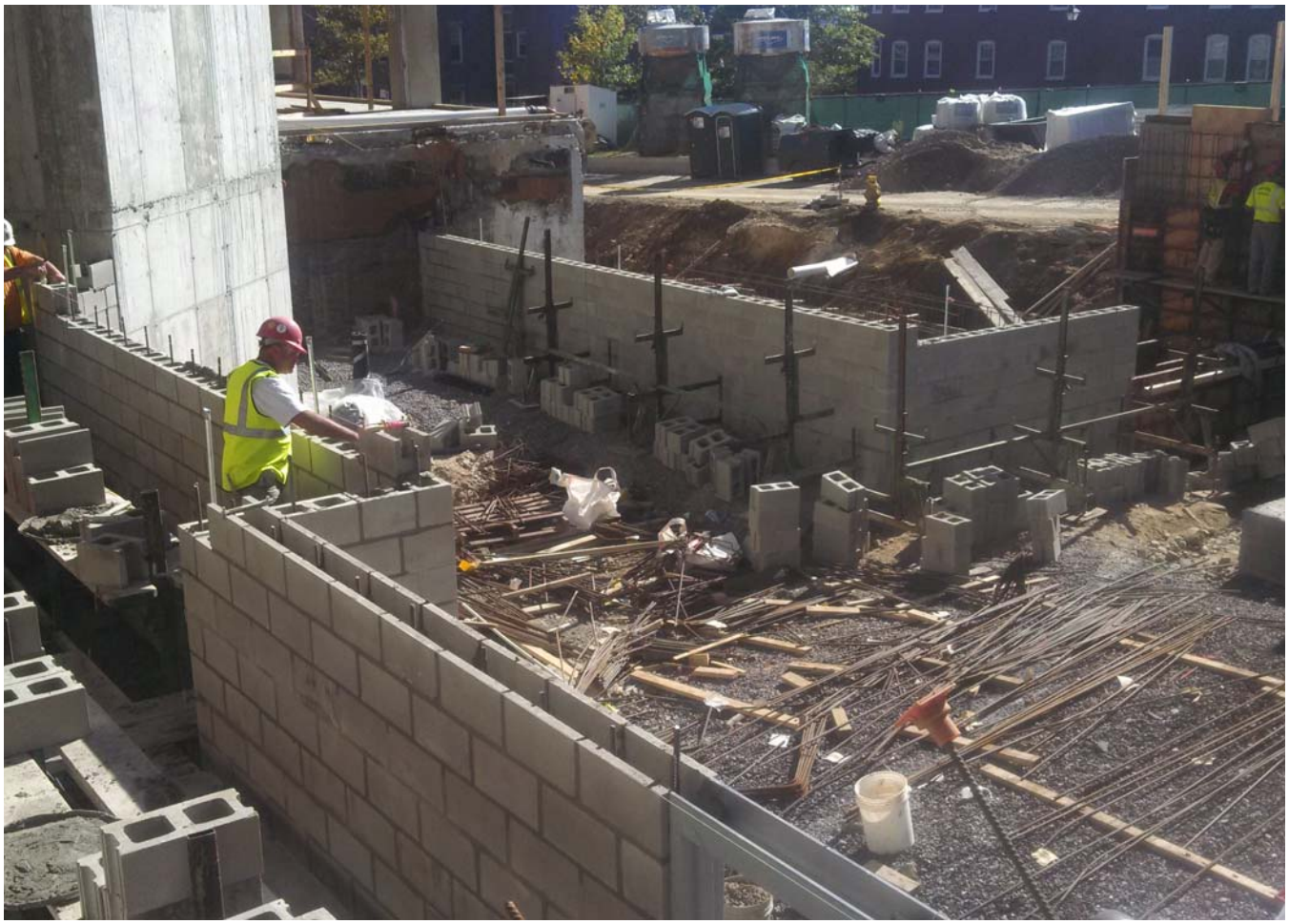
NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

Reinforcing steel observed prior to the placement appeared to have been installed in accordance with the applicable plans and details. Slab on grade placed and finished by N.S. Giles. All of today's concrete was placed using a belt conveyor with tremie where needed. Concrete field tests performed indicated that mix placed was within specification. Late afternoon placement planned for bowl at northeast vomitory platform; rebar observed while on site for Quad D work and appeared per design documents but no concrete observations or field testing was performed.

Attachments: Photos

Reviewed By: RED



PARK

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	9-20-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D: Wall on DA-line between D3 and D6	**SWCE Rep.:**	K. Gimpel/C. Cromwell
Placement Type:	Footing ☐ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	8:00am (masonry)
		Left Site:	2:40pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Chairs as needed
Reinforcement free from mud, oil, rust, or other nonmetallic	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☐	No ☐	☐	N/A

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2
Concrete Foundation Sections and Details	2-8-13	S3.04	1
Barker Steel Quad D Exterior Foundation Walls	3-27-13	R01B	2
Beauce Atlas Anchor Bolts Layout Quad D	2-13-13	A102	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	**75** ☐
A 996 ☐	
	A 775 Epoxy ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi w/ air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Tailgate
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-70	←**refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

Notes:

Reinforcing steel observed prior to the placement appeared to have been installed in accordance with the above referenced plans and details. We discussed interior wall section at entry between x6 and x7 with WBRC (John) and understand that a positive connection between abutting piers/walls is not required; wall section is only acting as a thermal break. Concrete field testing performed indicated that mix placed was within project specifications with respect to slump, entrained air and temperature. With the exception of the small interior wall on x7-line and the slabs, Quad D foundation work is now complete.

Attachments: Photos

Reviewed By: RED

PRO
CUT

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	9-24-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D: Footing at xK/D4 and wall on X7	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☒ Wall ☒ Column ☐ Slab ☐ Other ☐	**Arrived at Site:**	8:25am (soils)
		Left Site:	4:00pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	As needed
Reinforcement free from mud, oil, rust, or other nonmetallic	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Lean concrete at xK/D4

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2
Beauce Atlas Anchor Bolts Layout Quad D	2-13-13	A102	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi w/ air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Tailgate
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☒	No ☐	☐	
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED	Yes ☒	No ☐
***CYLINDER SET NO:** 412-71	←**refer to associated concrete test report*	

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED	Yes ☐	No ☒

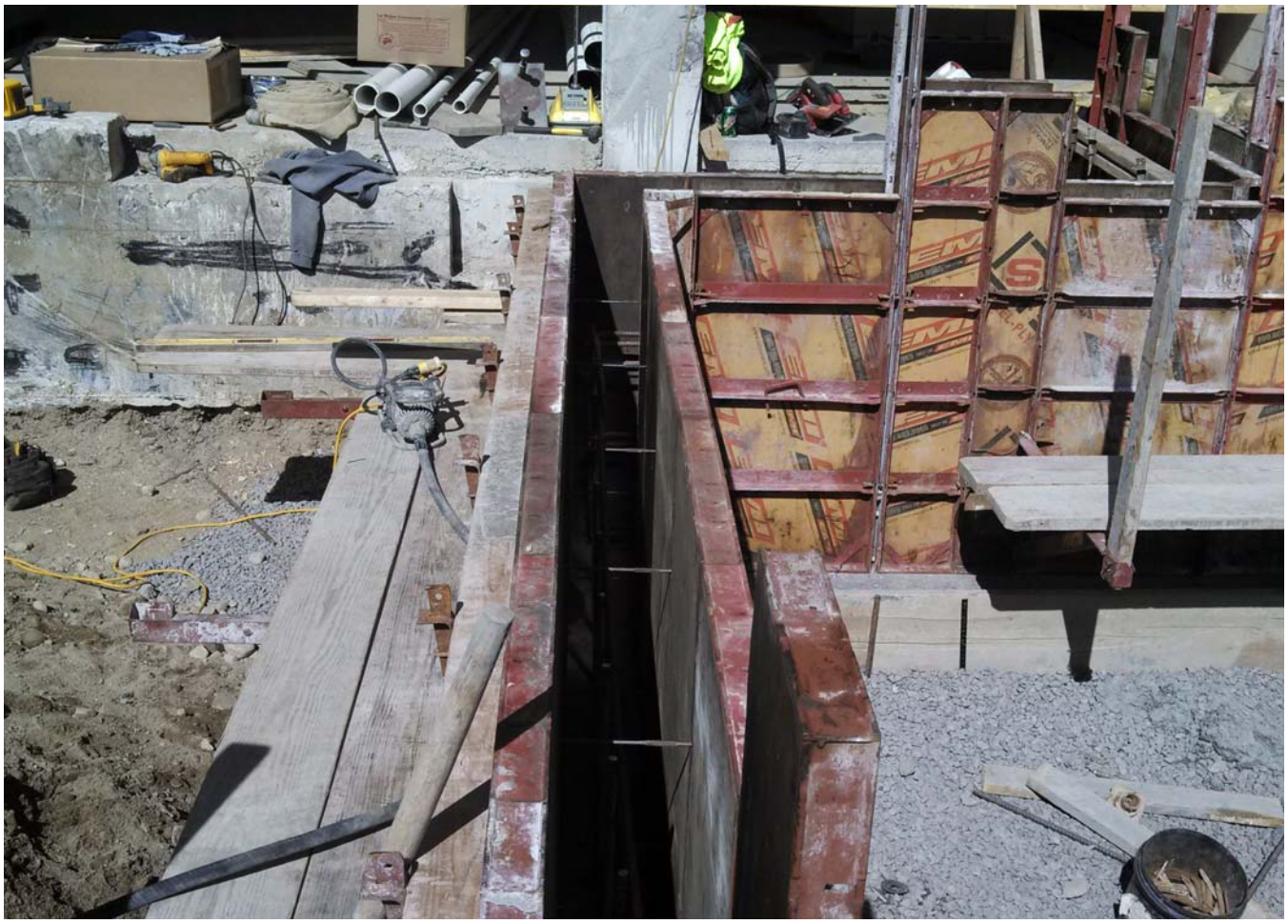
Notes: Reinforcing steel at xK/D4 was installed per plan; to avoid the need for a second pier placement, concrete was cast to top of pier at footing dimensions. Top of reinforcing at wall section placed was originally installed at bottom of slab elevation; splice bars were added to achieve designed top of wall elevation. Concrete tested indicated mix placed was within project specifications.

Giles began installation of anchor rods at two piers on xK-line (RFI 529), however the supplied threaded rod were too short to produce required embedment and projection; installation was postponed until correct lengths can be obtained.

After review of project documents, we noted that the load bearing masonry walls in Quad D were not constructed with a full 24-inch depth of grouted cells underlying the bearing plates as specified; we discussed observations with Cianbro and WBRC and understand that an RFI will be generated regarding acceptance of the as-built condition.

Attachments: Photos

Reviewed By: RED



S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	9-25-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad C: Slab on grade and event level composite slab CA to CB	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	6:25am
		Left Site:	11:45am (soils)

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks on grade
Reinforcement free from mud, oil, rust, or other nonmetallic	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Vapor barrier over ¾ stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Mechanical Level Foundation Plan – Quad C	3-1-13	S2.03B	2
Typical Concrete Foundation Sections and Details	1-21-13	S3.00	2
Typical Concrete Foundation Sections and Details	3-1-13	S3.01	3
Event Level Floor Framing Plan – Quad C	2-8-13	S2.13B	1
Concrete Foundation Sections and Details	1-21-13	S3.06	0

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump to line hose
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☐	No ☐	☐	Vibrating screed
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-72 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

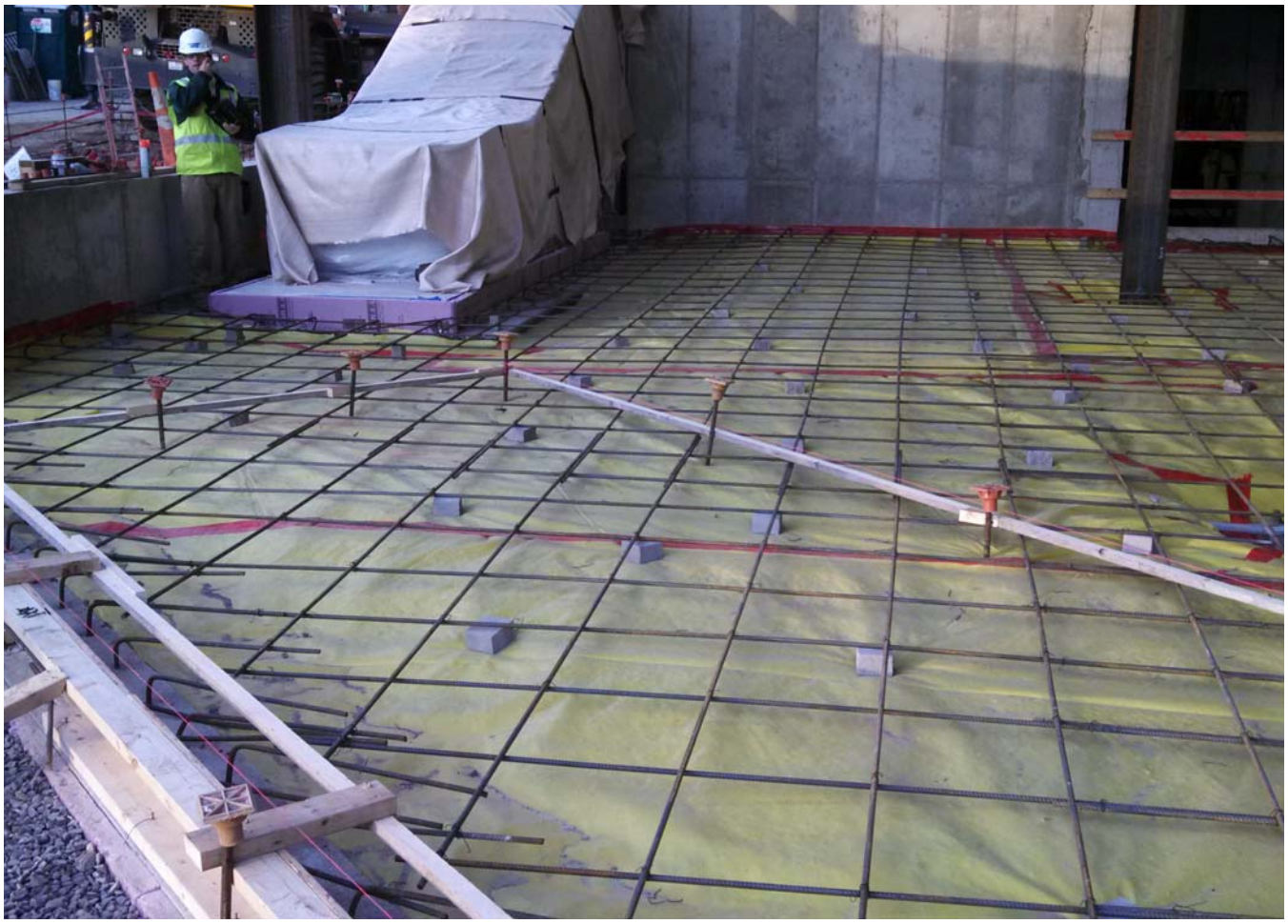
NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

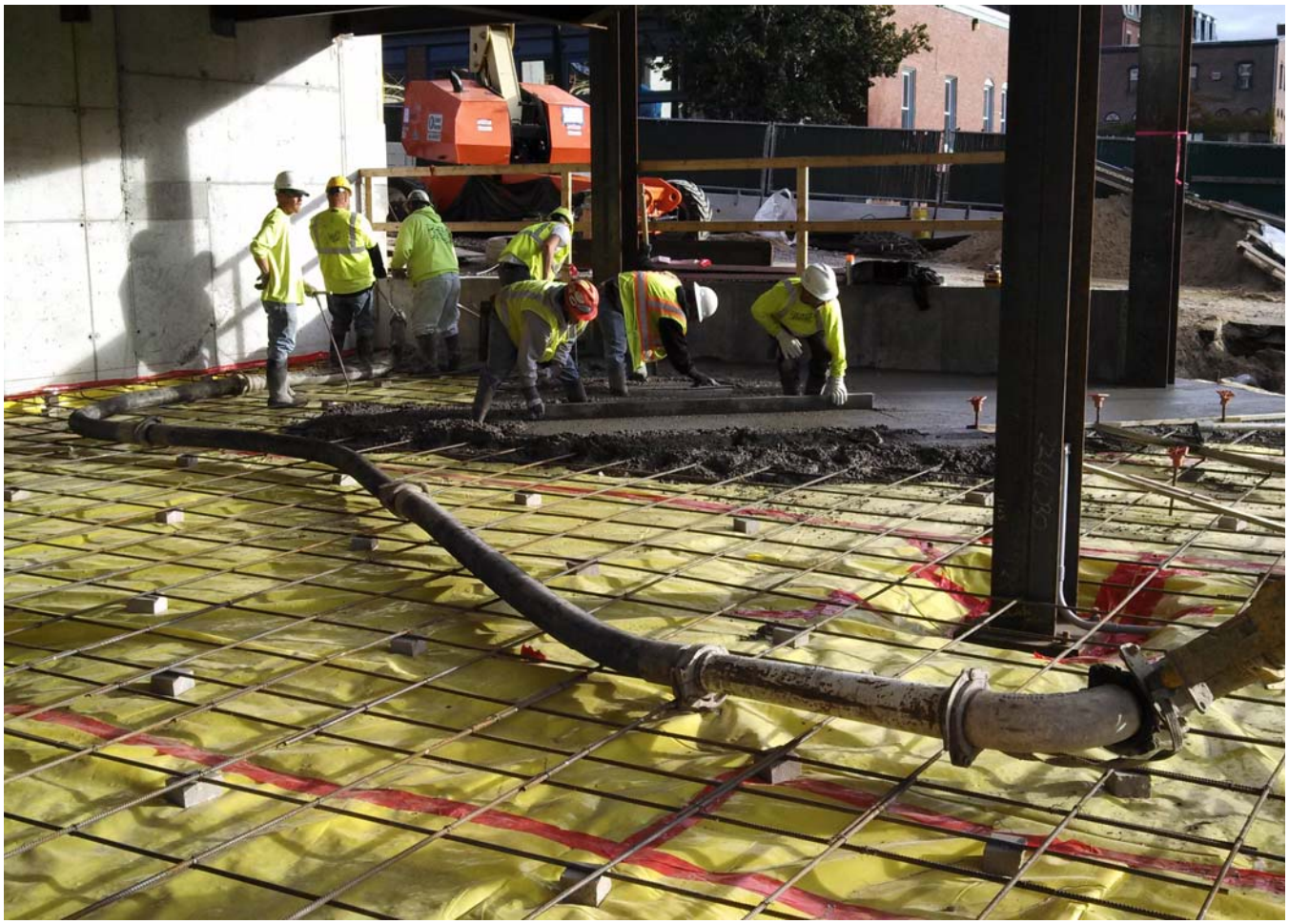
Notes: Reinforcing steel observed prior to the placement appeared to have been installed in accordance with the design documents with the exception of composite slab section where coverage exceeded design requirements (adjustments were made before placing concrete). Concrete was placed and finished by Pride Floors working under subcontract to N.S. Giles. Concrete tested indicated mix placed was within project specifications.

Following the placement, we noted that the F4x12'0" detailed on S2.03B (base of proposed stairs) had to the best of our knowledge, not been installed; we discussed observation with Cianbro and WBRC and understand that an RFI will be generated regarding the as-built condition.

Attachments: Photos

Reviewed By: RED





S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	10-2-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 2
Placement Location:	Quad C: Concourse level composite slab Quad C: Event level composite slab transitioning to slab on grade CA to CE by C1 to C4	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	6:15am
		Left Site:	1:45pm

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks/chairs 4' O.C.
Reinforcement free from mud, oil, rust, or other nonmetallic	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Vapor barrier over ¾ stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Floor Framing Plan – Quad C	2-8-13	S2.13B	1
Main Concourse Level Floor Framing Plan – Quad C	3-13-13	S2.23B	3
Concrete Foundation Sections and Details	3-1-13	S3.05	1
Concrete Foundation Sections and Details	1-21-13	S3.06	0
Steel Floor Framing Sections and Details	3-13-13	S4.02	3

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air (see notes)
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump to line hose
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☐	No ☐	☐	Vibrating screed
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-73 & 74 (lightweight)
412-75 (normal weight)

←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:

We made observations of reinforcing during installation on 10-1-13 and performed final inspection on 10-2-13 prior to the placement. During our initial inspection, observed that shear studs had not been installed at structural pour stops per miscellaneous details on S4.02; we discussed our observations with Cianbro and the detailed studs were field welded by ARC prior to the placement (3/4" diameter studs were substituted for ½" as reportedly approved by WBRC). After initial inspection of reinforcing steel, we recommended minor adjustments to provide design clearances and the addition of bars at openings per typical detail 6 on S5.00; recommended changes were made prior to the placement. Both slab sections were placed and finished by Pride Floors working under subcontract to N.S. Giles. Lightweight mix was used on concourse level and normal weight on event level. All field testing was performed at the point of placement (on the deck at the end of pump hose). Slumps performed on lightweight

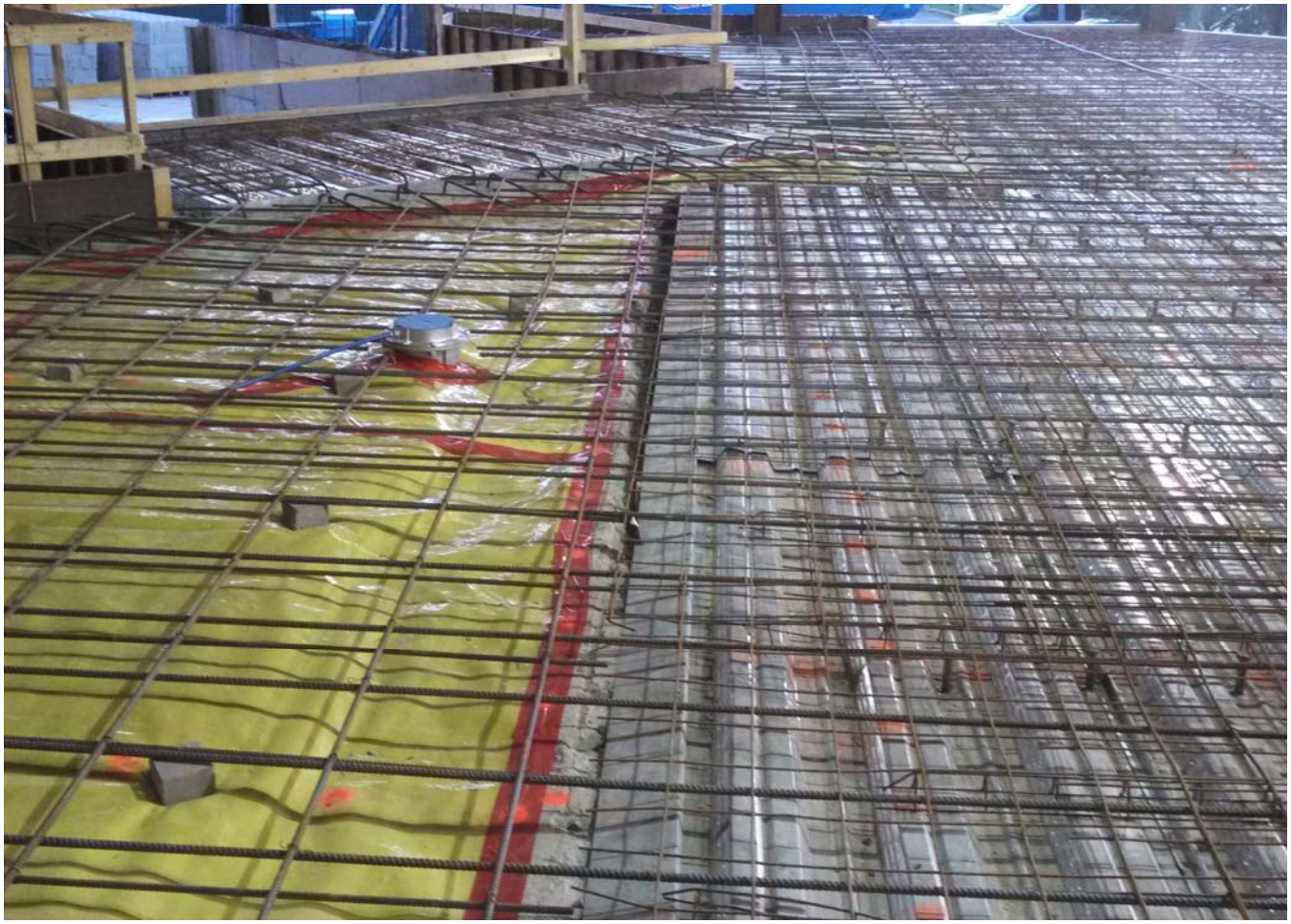
Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	10-2-13
Concrete Contractor:	N.S. Giles	**Sheet:**	2 of 2
Placement Location:	Quad C: Concourse level composite slab Quad C: Event level composite slab transitioning to slab on grade CA to CE by C1 to C4	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	6:15am
		Left Site:	1:45pm

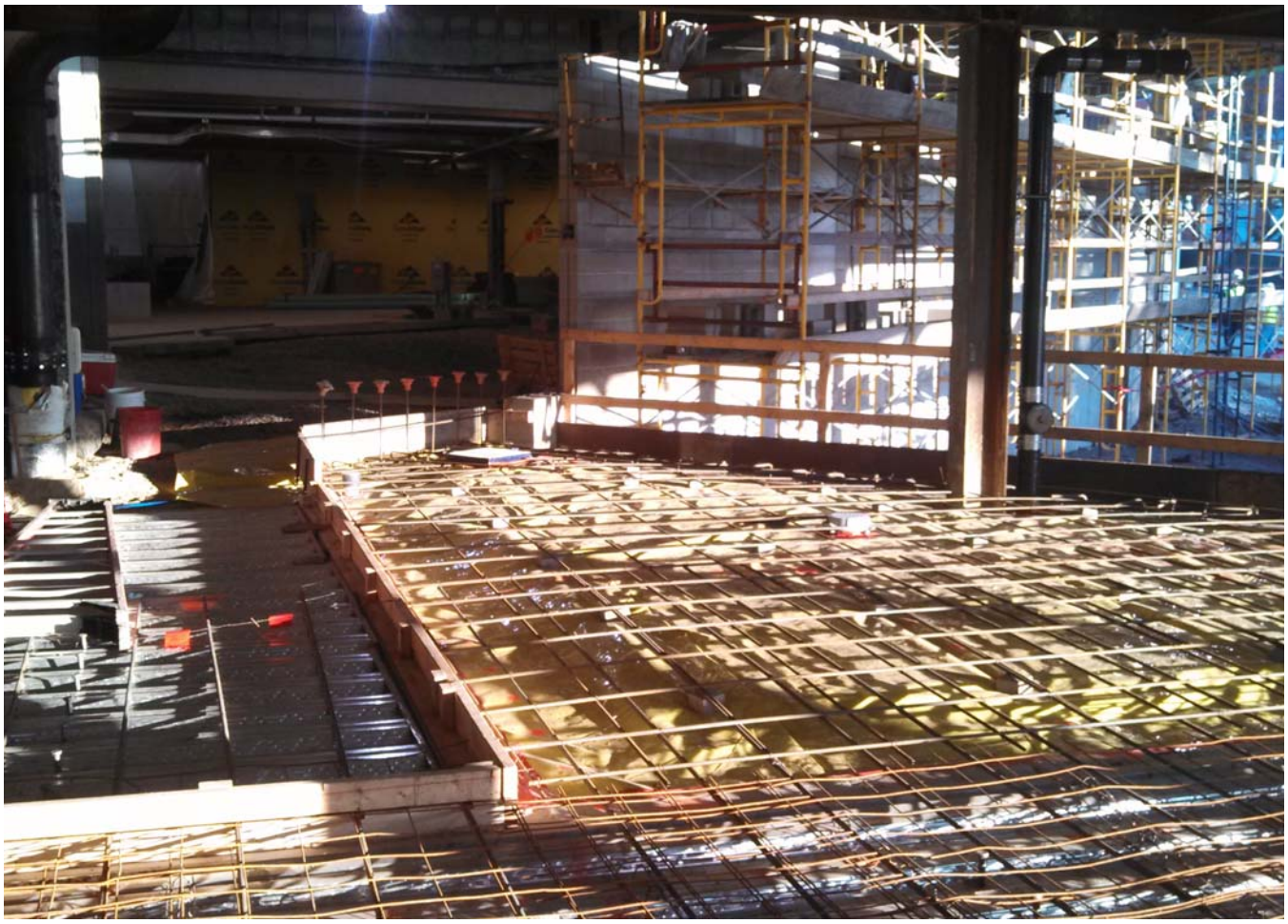
placed were found to be between 6.75 and 7.25-inches (Cianbro, N.S. Giles, Auburn and Pride Floors discussed slump prior to the placement and agreed that this range would provide a better finish while still maintaining the specified water/cement ratio and compressive strength). On lightweight mix, we formed two additional test specimens per cylinder set for laboratory unit weight testing (results will be reported with compressive strength reports). Wet unit weights were performed in the field were found to be between 123.7-pcf to 125.8-pcf (based on pervious experience with lightweight, the wet weights indicate that the dry weights may slightly exceed 115 +/- 3-pcf). The normal weight concrete placed on the event level all appeared to be in specification with the exception of one load that was slightly high with respect to slump (7-inch); cylinder set number 412-75 was formed on that load. Cianbro, Auburn Concrete and N.S. Giles were informed of all field test results.

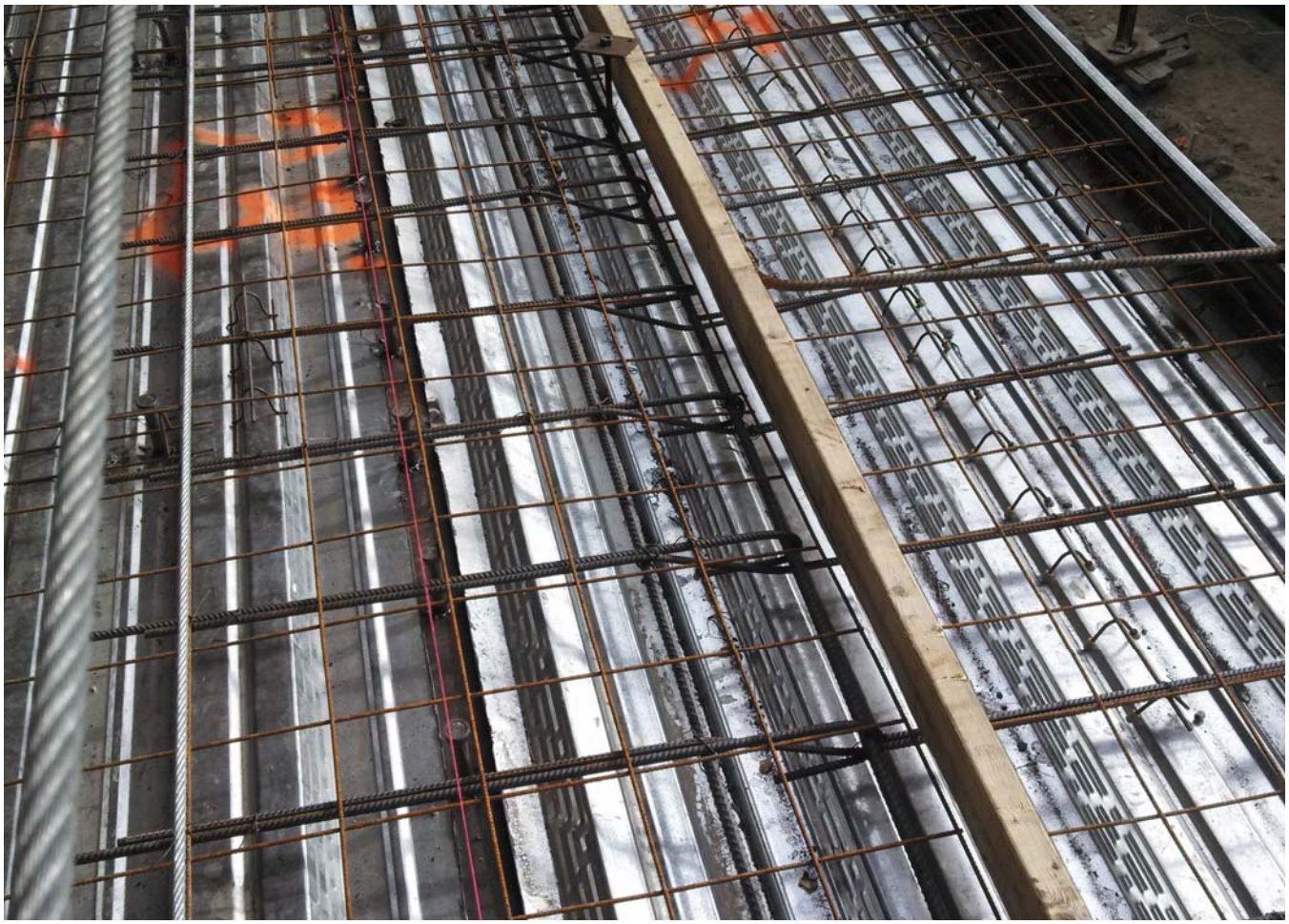
Attachments: Photos

Reviewed By: RED

United Rentals
986930
JLG LIFT
1-800-UR-RENTS







S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	11-1-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad D: Slab on grade at locker room entry Quad C: Concourse level composite slab ramp	**SWCE Rep.:**	K. Gimpel
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	6:00am
		Left Site:	10:30am

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks / chairs as required
Reinforcement free from mud, oil, rust, or other nonmetallic	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Vapor barrier over ¾ stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Main Concourse Level Floor Framing Plan – Quad C	3-13-13	S2.23B	3
Event Level Foundation Plan – Quad D	3-1-13	S2.14B	4
Typical Concrete Foundation Sections and Details	3-1-13	S3.01	3

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Tailgate / buggy
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-83 (normal weight)
412-84 (lightweight)

←**refer to associated concrete test report*

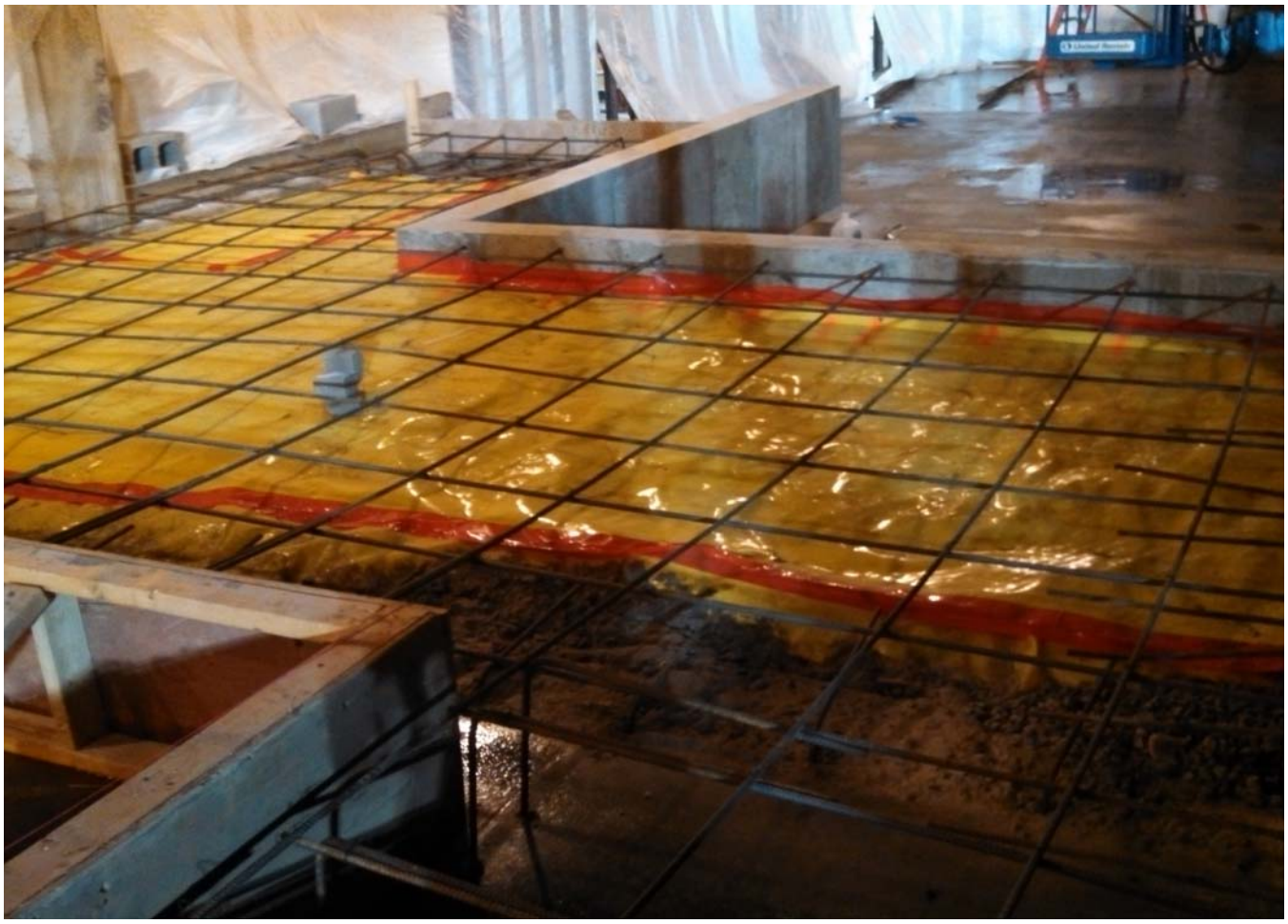
POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:
Reinforcing observed prior to the placement appeared to have been installed in accordance with the project documents. Concrete for today's work areas was placed and finished by N.S. Giles. Field testing performed indicated that mix placed was within project specifications.

Attachments: Photos

Reviewed By: RED



S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	11-7-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B Slab Infill West of BW line Quad B Slab on grad from BY to BZ + 12	**SWCE Rep.:**	C. Cromwell
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	6:30am
		Left Site:	11:00am

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	#4 @ 16" OC
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks / chairs as required
Reinforcement free from mud, oil, rust, or other nonmetallic	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Vapor barrier over ¾ stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan– Quad B	3-01-13	S2.12B	2
Typical Concrete and Foundation Section and Details	1-21-13	S3.00	2
Typical Concrete and Foundation Section and Details	3-01-13	S3.01	3
Concrete and Foundation Section and Details	3-01-13	S3.05	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-85 & 86 ←**refer to associated concrete test report*

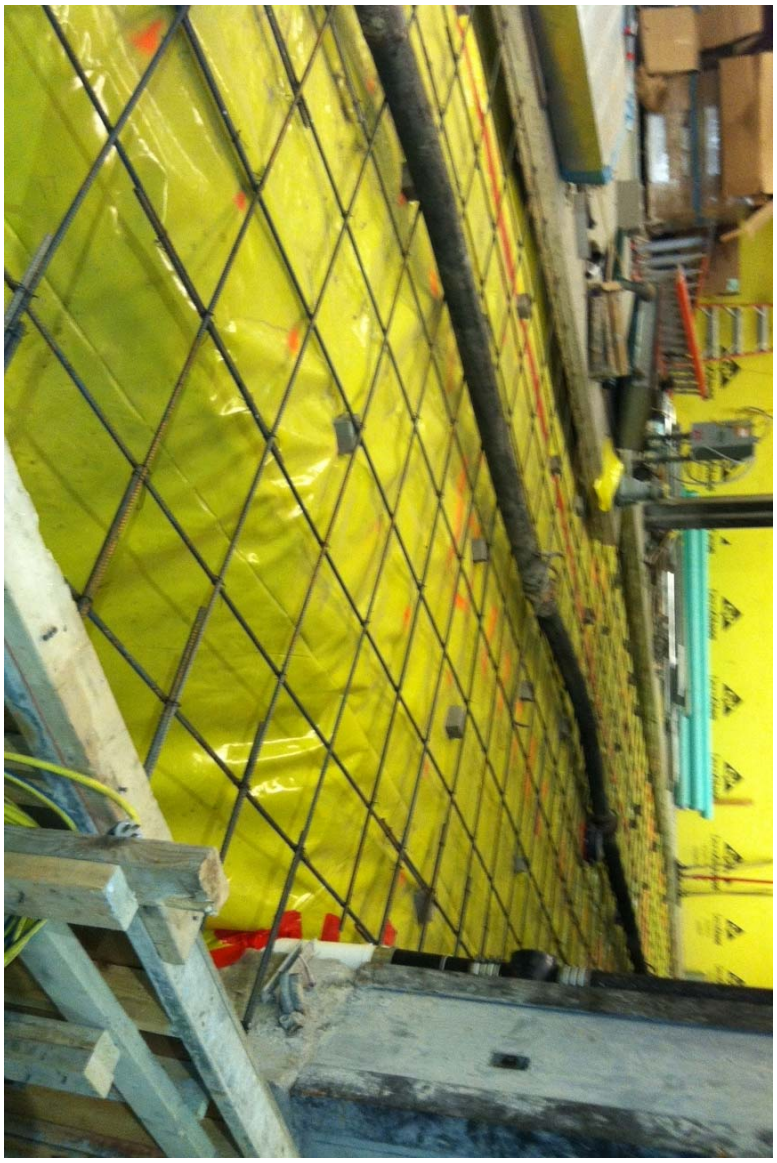
POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

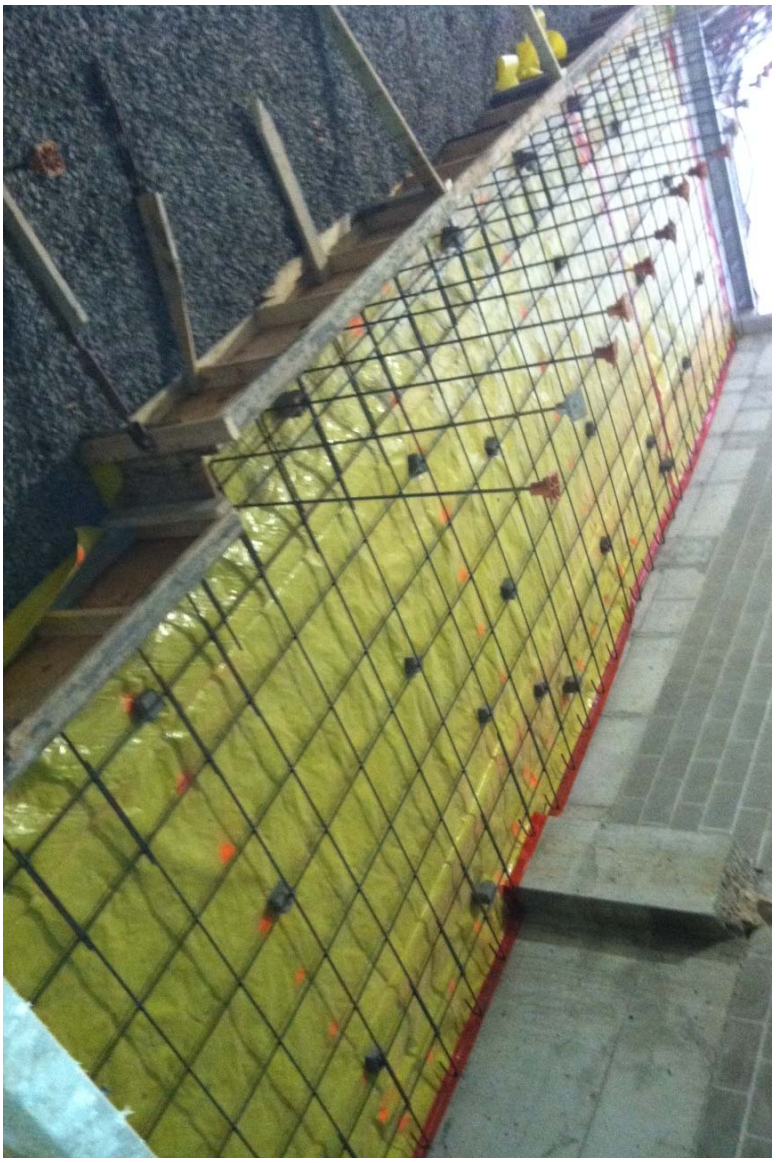
NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

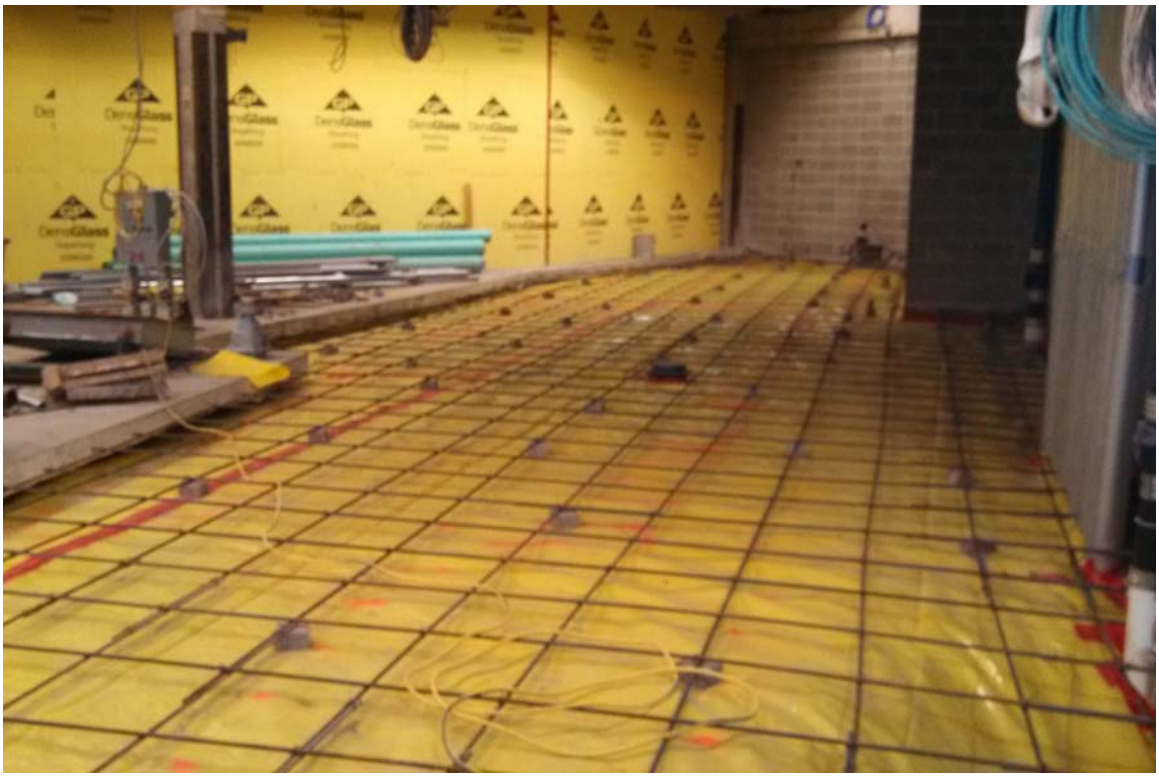
Notes:
Reinforcing observed prior to the placement appeared to have been installed in accordance with the project documents. Concrete for today's work areas was placed and finished by N.S. Giles. Field testing performed indicated that mix placed was within project specifications.

Attachments: Photos

Reviewed By: RED






DensGlass

S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	11-12-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	QUAD B BX-BY AND B2-B1, QUAD D SLAB FROM X1-X4 FORM DC TO DA	**SWCE Rep.:**	C. Cromwell
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	7:30am
		Left Site:	10:00am

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	#4 @ 16" OC
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks as required
Reinforcement free from mud, oil, rust, or other nonmetallic	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Vapor barrier over ¾ stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan– Quad D	3-01-13	S2.14B	2
Typical Concrete and Foundation Section and Details	1-21-13	S3.00	2
Typical Concrete and Foundation Section and Details	3-01-13	S3.01	3
Concrete and Foundation Section and Details	3-01-13	S3.05	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Pump
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-87 ←**refer to associated concrete test report*

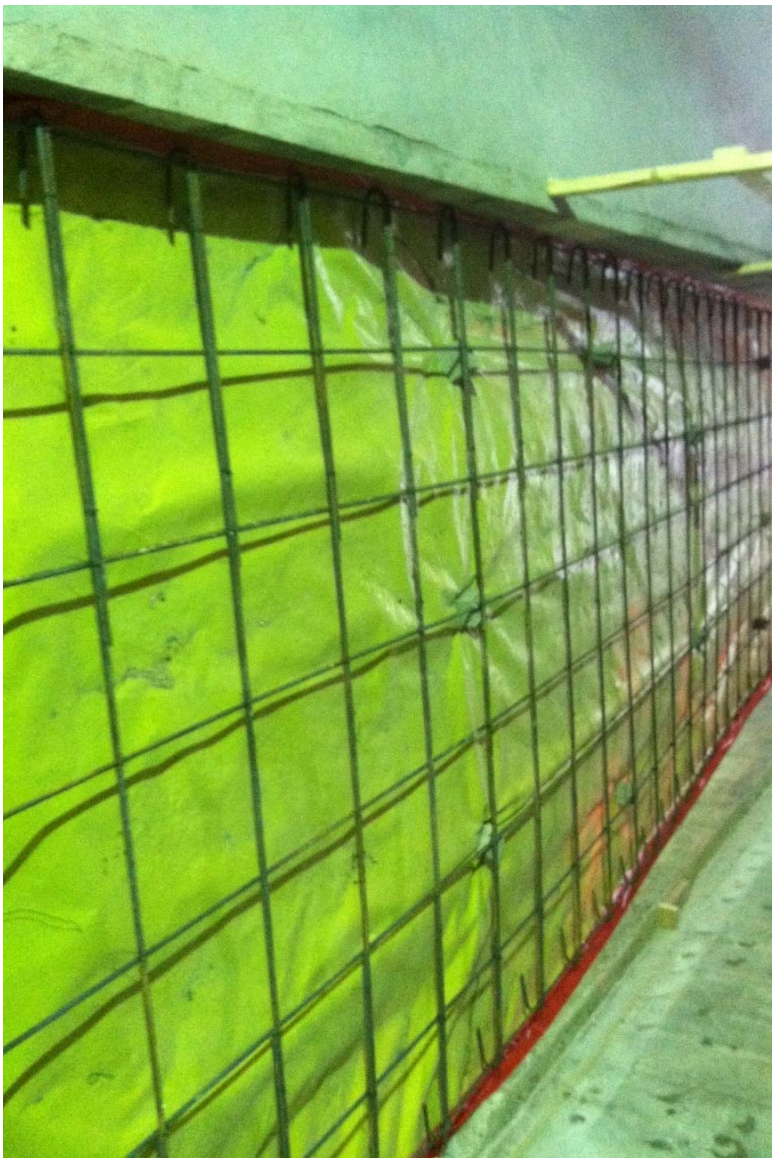
POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:
Reinforcing observed prior to the placement appeared to have been installed in accordance with the project documents. Concrete for today's work areas was placed and finished by N.S. Giles. Field testing performed indicated that mix placed was within project specifications. S.W.COLE was not present for the first two trucks and placement due to scheduling late.

Attachments: Photos

Reviewed By: RED



S.W.COLE ENGINEERING, INC.

Concrete Construction Observation Report

Project Name/Location:	Cumberland County Civic Center/Portland, ME	**Project No:**	12-0034.1
Client/Client's Rep.:	Cumberland County Recreation Center/Neil Pratt	**Date:**	11-20-13
Concrete Contractor:	N.S. Giles	**Sheet:**	1 of 1
Placement Location:	Quad B slab on grad between BX & BW	**SWCE Rep.:**	C. Cromwell
Placement Type:	Footing ☐ Wall ☐ Column ☐ Slab ☒ Other ☐	**Arrived at Site:**	6:00am
		Left Site:	11:10am

PRE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Bar Size (diameter, length, bend and anchorage)	Yes ☒	No ☐	☐	#4 @ 16" OC
Location (# of bars, spacing, and cover)	Yes ☒	No ☐	☐	
Splicing (weld joint, overlap)	Yes ☒	No ☐	☐	40 bar diameters min
Stability (wiring, chairs, and spacers)	Yes ☒	No ☐	☐	Bricks / chairs as required
Reinforcement free from mud, oil, rust, or other nonmetallic	Yes ☒	No ☐	☐	
Reinforcement appears in conformance to specifications	Yes ☒	No ☐	☐	
Soil subgrade prepared in accordance with project specifications	Yes ☒	No ☐	☐	Vapor barrier over ¾ stone

Referenced Drawings	**Date**	**Page**	**Rev.**
Structural General Notes	1-21-13	S0.01	3
Event Level Foundation Plan– Quad B	3-01-13	S2.12B	2
Typical Concrete and Foundation Section and Details	1-21-13	S3.00	2
Typical Concrete and Foundation Section and Details	3-01-13	S3.01	3
Concrete and Foundation Section and Details	3-01-13	S3.05	1

ASTM	**GRADE**
A 615 ☒	**40** ☐ **50** ☐ **60** ☒
A 706 ☐	
A 996 ☐	**75** ☐

CONCRETE PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Required mix used	Yes ☒	No ☐	☐	3500 psi no air
Placement and consolidation of concrete observed	Yes ☒	No ☐	☐	
Concrete properly conveyed to all areas of placement	Yes ☒	No ☐	☐	Telebelt
Depth of layer maximum limits not exceeded	Yes ☒	No ☐	☐	
Internal vibration (depth of insertion, spacing, time, vertical insertion, no conveyance of concrete by vibration)	Yes ☒	No ☐	☐	
Even layering around openings and embedments	Yes ☐	No ☐	☐	N/A
Removal of temporary ties and spacers	Yes ☐	No ☐	☐	N/A

FIELD TESTING OF CONCRETE PERFORMED Yes ☒ No ☐

***CYLINDER SET NO:** 412-88 ←**refer to associated concrete test report*

POST PLACEMENT OBSERVATIONS	**In Compliance**		**N/O**	**Comments**
Specified finish	Yes ☐	No ☐	☒	
Protection of surfaces from cracking due to rapid drying	Yes ☐	No ☐	☒	
Proper curing procedures implemented	Yes ☐	No ☐	☒	

NON-CONFORMANCE ITEMS OBSERVED Yes ☐ No ☒

Notes:
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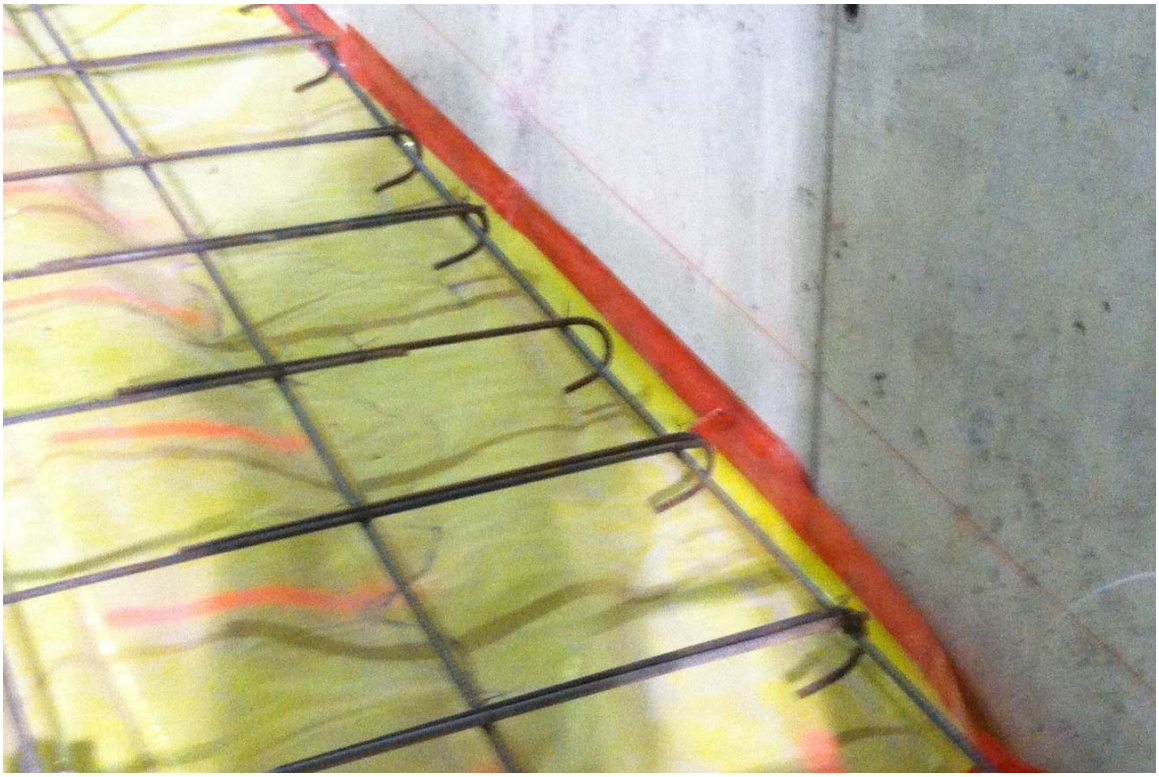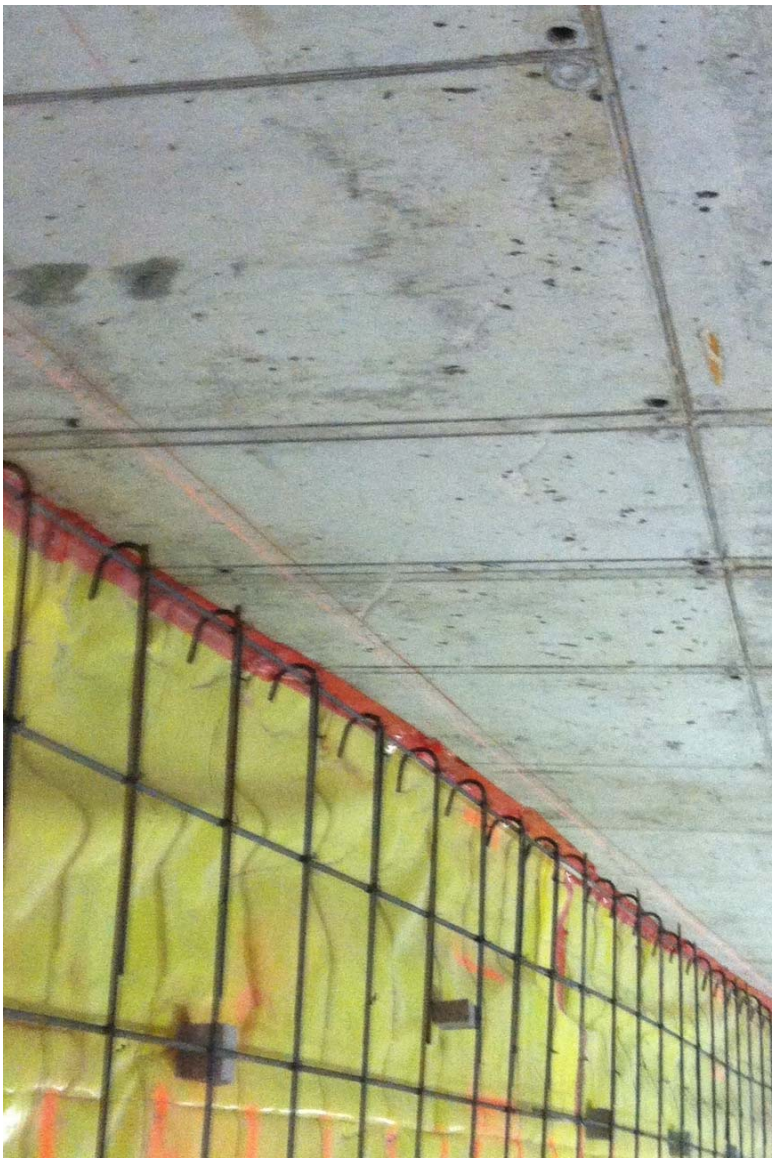
Reviewed By: RED