JE DUNN CONSTRUCTION

OKLAHOMA STATE CAPITOL RESTORATION

Exterior Rehabilitation

EXTERIOR DESIGN BUILD TEAM | JE DUNN | TREANOR ARCHITECTS | ADG

SEPTEMBER 2016

15039DB MONTHLY CONSTRUCTION PROGRESS REPORT

Contents

OKLAHOMA CAPITOL RESTORATION

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Exterior Rehabilitation

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Summary:

In September, progress has been accelerating on the exterior rehabilitation. Scaffolding is now fully erected on the North face of the North wing and has begun on the East face of the North wing. In addition to the state of the art safety systems in place, lights and electrical outlets have been installed throughout the structure. Having lighting and outlets installed in close proximity to all the areas in which restoration operations are taking place not only allows work to be performed in dusk or dawn time frames, but also increases the efficiency of the workers. Nearly all windows on the West face of the North elevation have been removed and shipped off site for restoration, as well having all lead paint removed to allow in-place cast iron restoration.

Also this month, we have begun preliminary construction mock ups. Multiple cleaning methods have been being tested on several structural variations of the exterior to ensure both effectiveness, as well as safeguarding the structure. Tests on the removal of grout between the stones (raking), and the re-installation of joint mortar (re-pointing), have been performed on the West face of the North wing with great success. The completion of the installation of permanent electrical power is right around the corner. Underground boring is in its final stages and electrical power transformers are set to be in place the first of October. Finalizing the power requirements will allow us to fully tarp the scaffolding and connect the cooling and heating units, creating a controlled environment in which all workers and material will used with optimal efficiency.

Key Activities:

- Completion of the second phase of scaffolding
- Lighting and electrical outlet installation on scaffolding
- Underground boring near completion
- Hazardous material removed from the exterior of the second phase
- Windows removed and sent off-site for restoration on first phase
- Surface stone cleaning mock-up complete
- Raking and re-pointing mock-ups complete

Safety:

The safety of our workforce and the general public during the course of construction is the most important task that we must deliver. To that end, every craftsmen involved with the project receives a detailed project orientation, and prior to performing any task, the teams develops detailed task specific work plans. These work plans are often called Job Site Analysis (JSA) and assist project teams with analyzing different hazards associated with each work activity prior to beginning work. See page three (3) for an example of a detailed JSA document that we require all trade partners to complete prior to completing any activity.

Safety Data and Metrics	
Orientations Performed through 09.30.16	98
First Aid Incidents	0
OSHA Recordable Incidents	0

DUNN safety

JOB SAFETY ANALYSIS

DATE:	TIME:		
PROJECT:	TASK/ACTIVITY:	LOCATION:	WEATHER IMPACTS: ☐ High Winds ☐ Heat ☐ Lightning ☐ Cold ☐ Snow/Ice ☐ Rain
COMPANY NAME:	TRADE CREW PERFORMING WORK:	FOREMAN OR SUPERVISOR:	

SPECIALIZED PERSONAL PROTECTIVE EQUIPMENT AND/OR PERMITS:

☐ Fall Protection ☐ Eye/Face Protection ☐ Hand Protection ☐ Hearing Protection ☐ Respirator Protection ☐ Reflective Vest

☐ Critical Lift Plan ☐ Hot Work Permit ☐ Excavation Permit ☐ Confined Space Permit ☐ Lock-out/Tag-out Permit ☐ Kevlar Sleeves

☐ Eye Wash ☐ Barricades ☐ Signage ☐ MSDS ☐ GFCI

COMPLETED BY:	REVIEWED BY:	APPROVED BY:

STEPS:	LOCATION(S):	POTENTIAL HAZARDS:	HAZARD CONTROLS:	TOOLS/EQUIPMENT REQUIRED:
			How: Who:	
			How: Who:	
			How: Who:	
			How: Who:	

STEPS:	LOCATION(S):	POTENTIAL HAZARDS:	HAZARD CONTROLS:	TOOLS/EQUIPMENT REQUIRED:
			How: Who:	
			How: Who:	
			How: Who:	

PRINTED signature verifies I have reviewed and agree to work to the plan.

I understand I have the authority and responsibility to stop any unsafe condition.

Supervisor Signature:	______	Date:	______	Worker Signature:	______	Date:	______
Worker Signature:	______	Date:	______	Worker Signature:	______	Date:	______
Worker Signature:	______	Date:	______	Worker Signature:	______	Date:	______
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Worker Signature:	______	Date:	______	Worker Signature:	______	Date:	______

OKLAHOMA CAPITOL RESTORATION

Exterior Rehabilitation
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JE Dunn Fall Protection Training

JE Dunn Safety Stand Down 09.13.16

JE Dunn Interior Safety Signage

DUNN safety

Progress Photos

The photos attached in the subsequent pages represent progress photos taken during the month of September for the Exterior Rehabilitation of the State Capitol of Oklahoma.

Drone Footage

September Drone Footage > Click Here

FIELD OBSERVATION REPORT

REPORT NO:	06	DATE:	9/20/2016
TIME:	10:15 AM	DAY OF WEEK:	Tuesday
OWNER:	OMES	TEMP. RANGE:	90° F

PROJECT:	Oklahoma Capitol Restoration - Exterior Rehabilitation
CAP PROJECT NO:	15039DB
JE DUNN PROJECT NO:	15025800
ADG PROJECT NO:	15-007
TREANOR PROJECT NO:	HP 15.007.00B
ZFI PROJECT NO:	15071-01
ALVINE PROJECT NO:	2014-4286
SRB PROJECT NO:	114801

WEATHER: ☒ Clear ☐ Overcast ☐ Rain ☐ Snow ☐ Cold ☒ Warm ☐ Hot ☐ Foggy ☐ Windy ☐ Ice ☐ Other _____

SITE CONDITIONS: ☒ Clear ☐ Dusty ☐ Muddy ☐ Other _____

PERSONS CONTACTED: Heath Glenn, Superintendent - JE Dunn Construction

WORK OBSERVED:
The following was observed during this site visit:

1. Scaffold installation progressing on north elevation of north wing.
2. Window removal progressing on west elevation of north wing.
3. Raking of joints progressing on west elevation of north wing.
4. Mechanical window penetration work progressing on west elevation of north wing.
5. Boring progressing on east portion of north lawn.

ITEMS DISCUSSED:
None

ACTION REQUIRED:
None

ITEMS TO VERIFY:
None

REMARKS:
None

OBSERVED BY: Peter Breninger (ADG)

Scaffold installation progressing on north elevation of north wing

Scaffold installation progressing on north elevation of north wing

Cover provided at emergency egress door on north elevation of north wing

Window removal progressing on west elevation of north wing

Raking of joints progressing on west elevation of north wing

Mechanical window penetration work progressing on west elevation of north wing

Mock-Ups

In construction, a mock-up is a scale or full-size model of a design used for: demonstration, design evaluation, constructability, and other purposes. A mock-up is very similar to a prototype if it provides at least part of the functionality of an assembly or system. The completion of mock-ups allows our team to be able to visualize what a completed installation will look like once the scope of work is completed on the actual project. The following report depicts a raking and repointing mock-up that was completed during the month of September to prepare for the completion of work.

Raking & Repointing of Limestone Mock-Up Example

TREANORHL

Date: 09-22-2016

Project: Oklahoma Capitol Restoration – Exterior Rehabilitation
CAP PROJECT 15039DB

Company: JE Dunn / Mark 1 Masonry
Attention: Heath Glenn / Lukasz Lesniak

From: Julia Mathias Manglitz

CC: M Maska, L. Boyce, T. Talerico, L. Heaton (JED)
JC Witcher, P. Berninger (ADG)
M. Thompson (ZFI)

Reference: 040343 – Joint raking and initial repointing

Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing. Where review is made at an intermediate stage, is partial or is one scope of work within a larger mock-up assembly, review comments are conditional based on the final full execution of the mock-up(s)

☐ Reviewed
☒ Reviewed as Noted
☐ Revise and Schedule Follow Up Review
☐ Rejected

Mock Ups Reviewed: Reviewed joint raking at granite and limestone. Mock up performed on A206 at the north end of the façade. Initial repoint included filling open joints at the granite water table with setting mortar and with grout.

Some pointing mortar was applied in the limestone area to facilitate discussions about options for finishing with the striping remaining in place; two finishes were installed 1) flush and 2) concave. Granite is to be similarly pointed prior to review for color and finish in follow up visit.

Reviewed weather limitations and curing processes. Areas will be reviewed to look for bond line failure on future site visits – this was an issue with the trial repairs, particularly in the granite the previous year.

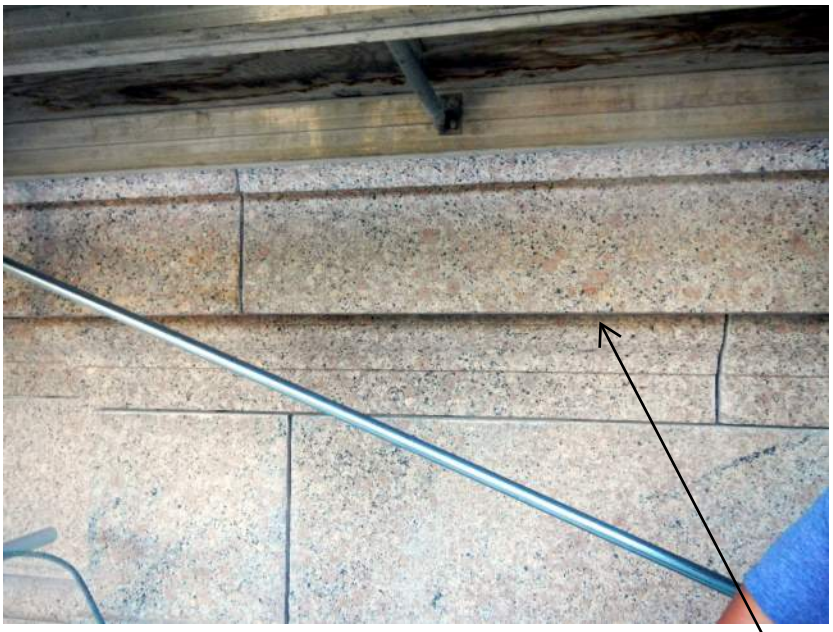
The following are specific comments that are key-noted on the mock up documentation:

1. Verify depth of raking.
2. Verify depth of backer rod when using detail A2/A403 and A3/A403.
3. Verify depth of initial repointing to allow ½" final pointing, minimum. Rake out excess mortar prior to setting.
4. Verify mortar removal from entire height of joint under the granite water table and other joints that are difficult to access due to geometry.

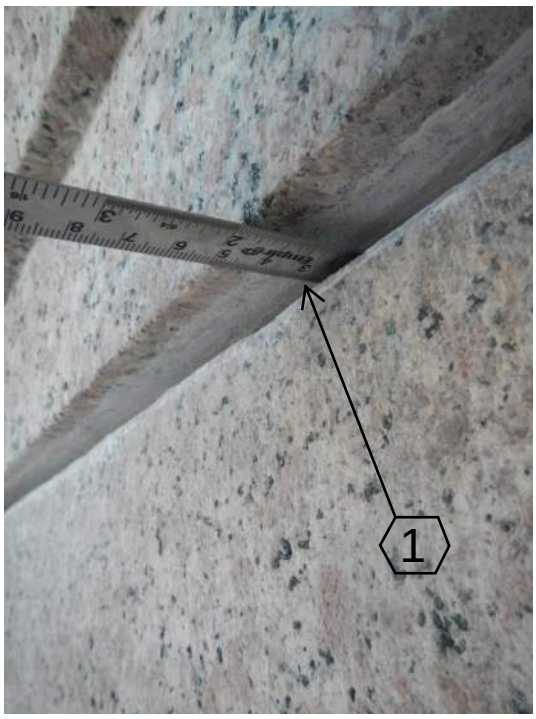
The following are general comments regarding these mock ups:

1. Raking was very good overall, no overcutting of joints was observed and backs were nicely squared.
2. Damage due to previous repointing has nicked stone, rounded over edges and cut into adjacent stones in some locations.
3. Final pointing finish and review will be scheduled for a follow up visit.

4. Hand pump or gravity feed is acceptable to use for placing grout in joints.
5. Areas should be monitored for any sign of bond line failure. Quality assurance procedures for curing should be included in quality control program submittal.
6. Mortar should be mixed as dry as possible to limit staining and shrinkage cracking.

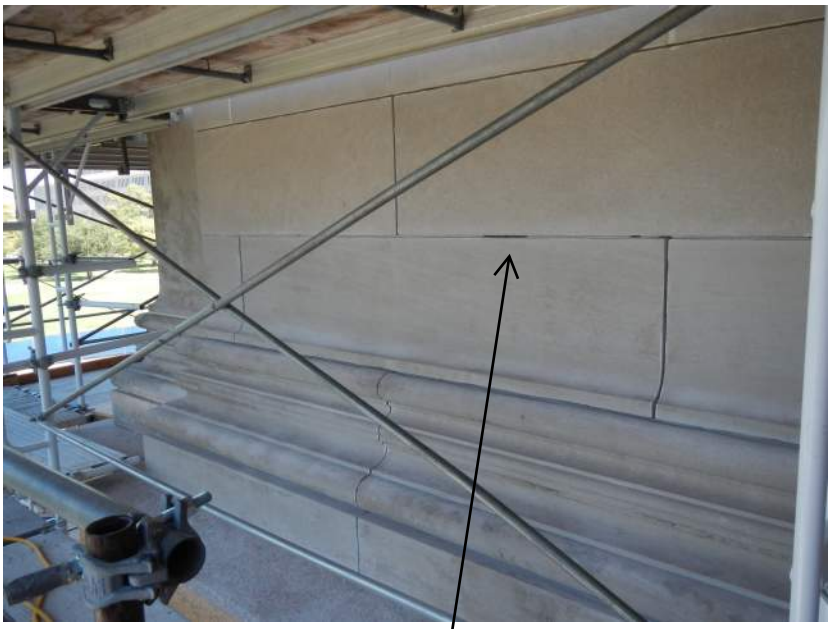


Partial view of raked area granite area



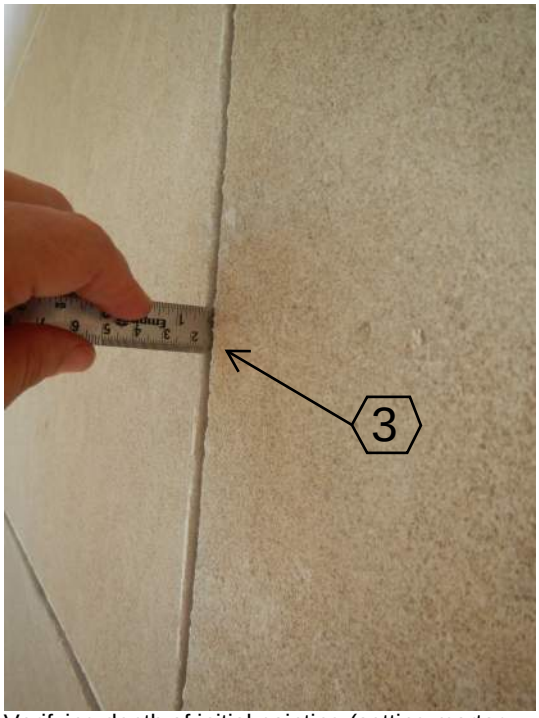
Verify raking has reached 1" minimum depth specified

Bed joint under the water table is challenging to reach due to geometry of overhanging stone - verify previous mortar has been removed entirely. Small area was not complete upon review



Partial overview of raked area of limestone. Head joints in limestone ashlar were open in this location.

Placing initial setting mortar to fill an open head joint in limestone with setting mortar per A2/A403.



Verifying depth of initial pointing (setting mortar used for initial pointing).

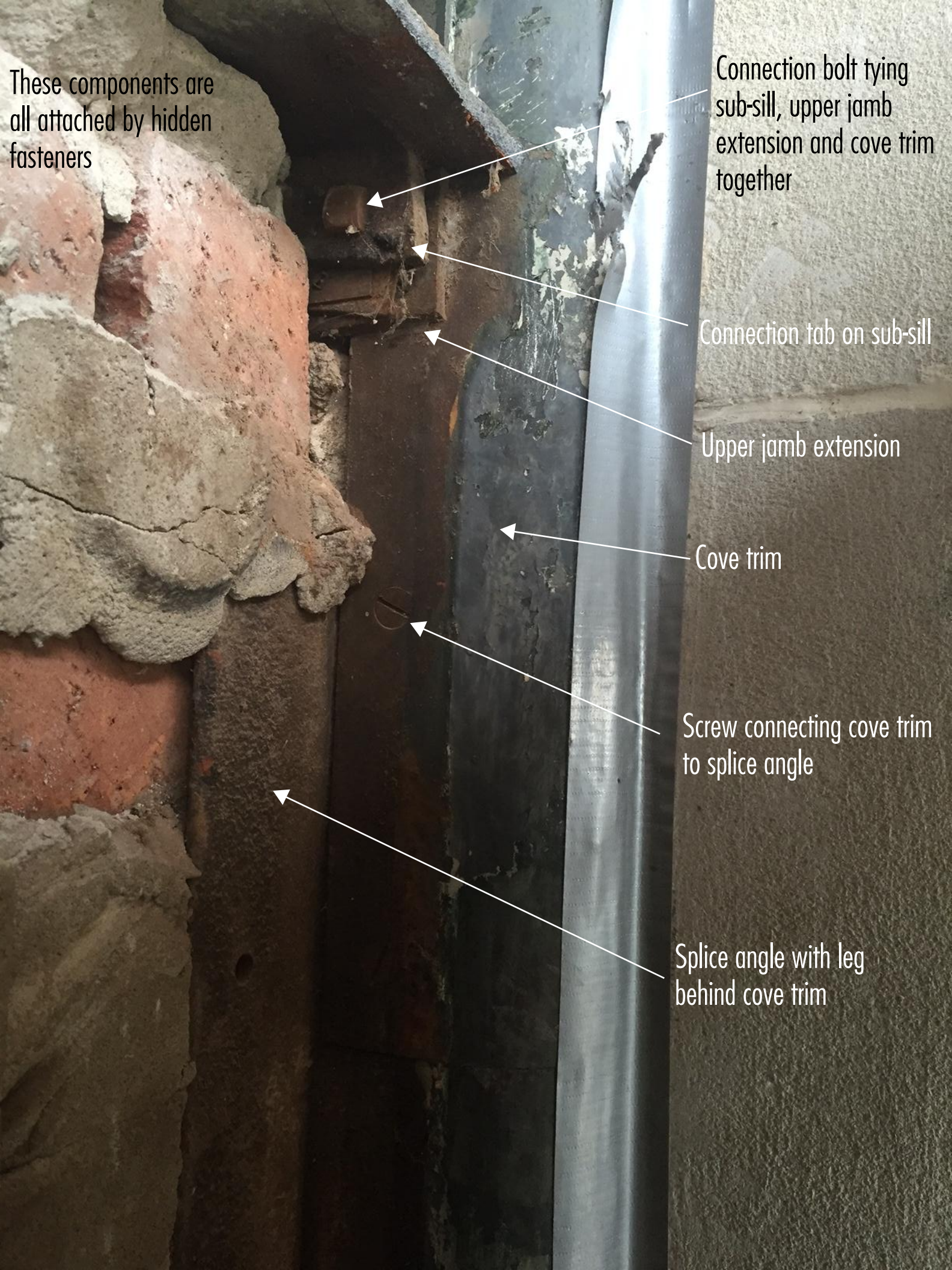
Challenges

Thus far, we have identified two (2) challenges on the exterior restoration project. While challenges are not ideal, our design-build delivery method allows us to work hand in hand with our architects and consultants to resolve these issues without delay. The following items are challenges that we have encountered to date:

1 Type G Window Challenge: Hidden fasteners behind the building skin have prevented our team from being able to disassemble the windows as we had originally planned. Thus far, all windows were intended to disassemble to an extent that would allow us to restore varying pieces for restoration off-site. The discovery of this condition changed how we would proceed with restoring these type of windows. The subsequent photos show the hidden fasteners and describe how we will accomplish restoring these windows without having to physically remove them as originally planned.

2 Windows 264, 265, 266 C (Alpha) Challenge: The configuration of these windows does not allow us to remove the side light spandrel glass as we had originally intended. The steel member present is approximately an 18" channel with 12" beams attached to it, with corrugated decking directly above it. The channel is tight to the frame with its top at the bottom of the horizontal window frame. Due to the impeding channel and configuration, we are no longer able to tilt the glass and remove it as planned. The following report describes this condition further and is used as an aide in our research to find an appropriate solution with our design-build team.


Challenge No. 1
These components will now remain in place for restoration
Cove Trim
Jamb Extension
Sub Sill
Bullnose Mullion


These components are all attached by hidden fasteners
Connection bolt tying sub-sill, upper jamb extension and cove trim together
Connection tab on sub-sill
Upper jamb extension
Cove trim
Screw connecting cove trim to splice angle
Splice angle with leg behind cove trim


Connection screws for cove trim to splice angle
Splice angle behind sandrel panel.


Sub-sill vertical lip
with connection hole
to spandrel panel
Masonry back-up

zfi engineering
Structural **Solutions** that Work

ENGINEER'S FIELD REPORT

Project: Oklahoma State Capitol Exterior Renovation
Project #: 15071-01
Date / Time: September 16, 2016 / ~10:30 a.m.
Temperature: 75° F
Weather: Cloudy, cool, intermittent rain

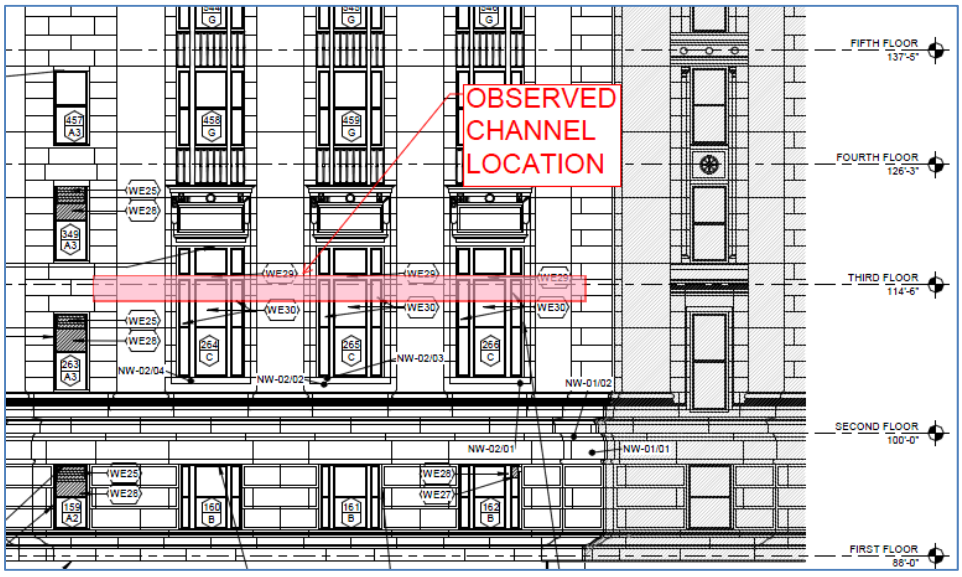
Work in Progress: Window Frame Removal on NWWE

ZFI was asked by Heath Glenn of JE Dunn to visit the scaffolding on the North Wing – West Elevation in the vicinity of windows 264, 265, and 266 (that occur primarily below the 3rd floor). The reason for the visit was that undocumented steel framing was encountered crossing the upper third of the three windows and was interfering with the sidelight frame removal at those windows. Based on conversations he had with representatives of the building management office, Mr. Glenn was informed that a former two-story space on that side of the building was likely infilled sometime in the 1960's to create more office space. It is possible that the undocumented framing was part of this renovation.

After observing the framing and discussing the window conflict with Mr. Glenn, it was proposed that alternative window frame removal options be considered in lieu of attempting to modify the undocumented framing. It is our understanding that JE Dunn has begun to explore those options with the window designer and restoration subcontractor.

Observations:

1. After removing the temporary opening covers, ZFI personnel observed an 18 inch steel channel framing across the top portion of the window opening (See Photo 1 below).



ZFI Engineering Co.
8411 S. Walker Ave.
OKC, OK 73139
Ph: 405.634.3393
Fx: 405.634.6414
www.zfiengr.com

2. The channel is above the ceiling and the interior side was covered in spray-applied fireproofing. The channel was set flush against the window frame with the approximately 3 7/8 inch-wide flanges of the channel oriented toward the interior. The channel appeared to support a hot-rolled angle shape along its entire length (likely as a pour stop/deck support angle) and an additional vertical plate along the portion of its length in front of the windows (likely as additional protection for the window opening). This vertical plate extended above the floor deck and was observable from the 3rd floor above as it extended into the upper sidelight depth (Photo 2).
3. The channel appeared to span along the west wall of the north wing and possibly bear on vertically-oriented column elements (possibly channel or wide flange shapes) also flush to the wall (Photo 3). Due to the presence of the fireproofing, observation of any attachment method to the walls was not possible.
4. Various wide-flange beams also framed into the side of the channel from the east (Photo 4). The majority were similarly fireproofed indicating that they were likely installed at the same time as the channel. These nominally 18 inch deep beams appeared to be bolted into the channel web. The wide flange beam located in front of window 264 was approximately 10 feet from the masonry wall to the north where the concrete-on-deck floor appeared to bear on a rolled angle attached to the wall, the top of the wall, or a combination of the two. Similar beam spacing was observed at window 266. However, additional un-coated framing was observed in the vicinity of window 266 (Photos 5 and 6). These beams appeared to be of a later installation (due to lack of fireproofing) and may be supporting filing and storage uses above.
5. The beam and channel framing was supports an approximately 3 inch concrete slab on a 2 inch deep metal deck floor with an approximate total thickness of between 5 inches and 5 ½ inches (Photo 7).
6. Based on conversations with Heath Glenn, this channel was preventing the removal of the narrow, lower sidelights on each side of the aforementioned windows. The sidelight removal appeared to be contingent on removing a stay at the top of the window, tilting the sidelight frame into the interior, and then lifting it out of the larger window frame. The full 18 inch depth of the channel impaired the removal of the stay and prevents the tilting and lifting of the sidelight out of the frame (Photo 8).
7. After observing the framing and discussing the window conflict with Mr. Glenn, it was proposed that alternative window frame removal options be considered in lieu of attempting to modify the undocumented framing. It is our understanding that JE Dunn has begun to explore those options with the window designer and restoration subcontractor.

Reported By: Michel D. Thompson, PE
ZFI Engineering Co.

Photo 1 – 18 inch Channel Framing Across Window 264

Photo 2 – Steel Plate Extending Above 3rd Floor

Photo 3 – Column Element Supporting Channel


Photo 4 – Wide Flange Beam Framing Into Channel

Photo 5 – Additional Framing at Window 266

Photo 6 – Additional Framing at Window 266

Photo 7 – Concrete on Corrugated Deck Portion of 3rd Floor

Photo 8 – Conflict at Top of Sidelight

-END-

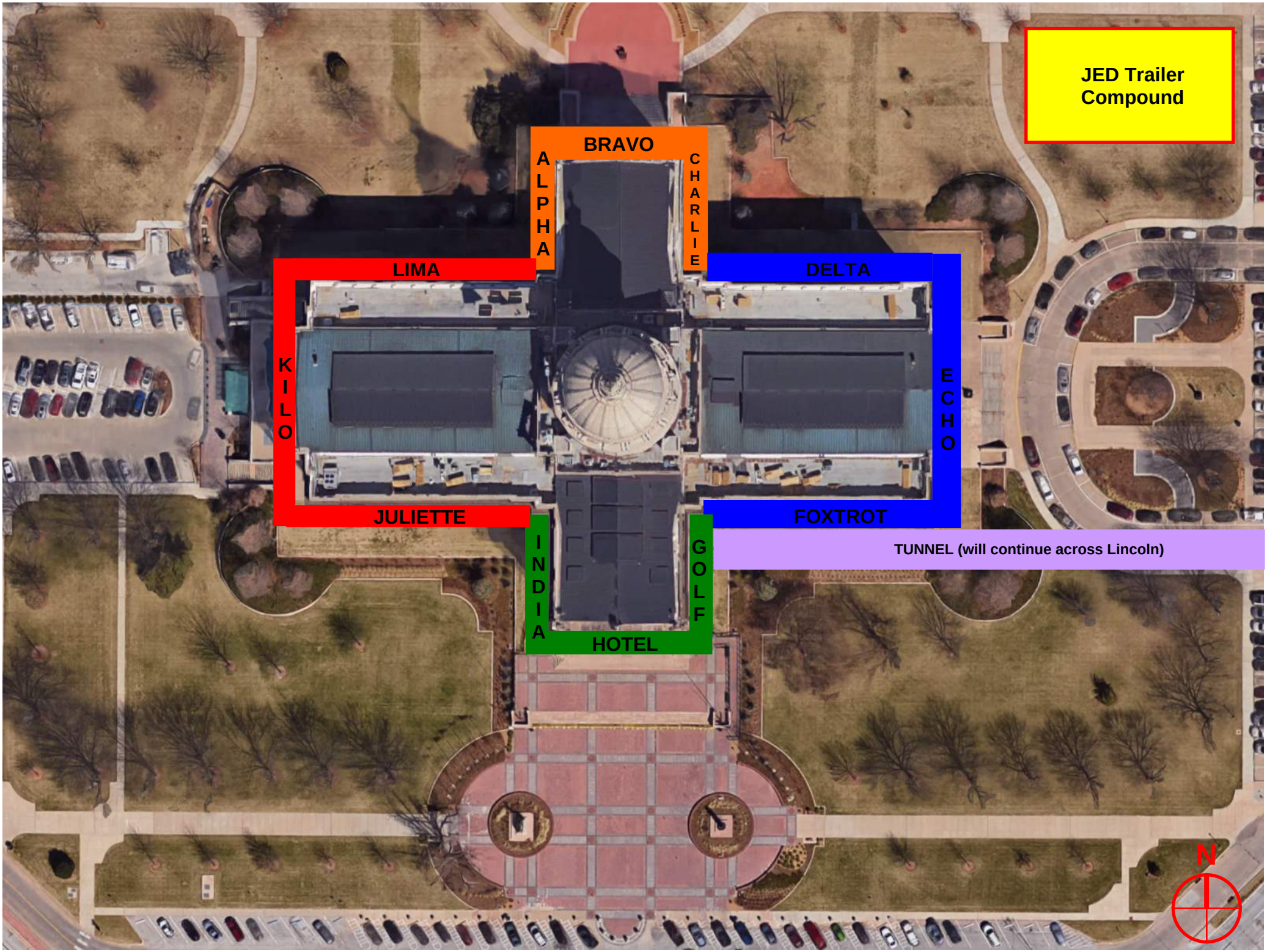
Phasing & Schedule Attachments

The following documents are included in the subsequent attachments:

- Site Phasing Plan
- Site Utilization Plan
- Window Abatement Tracking Plan
- Four (4) Week Look Ahead Schedule

Site Phasing Plan:

The site phasing plan is a broad representation of the work flow for the capitol exterior rehabilitation. Beginning with ALPHA (west elevation of the north face), scaffolding has been constructed continuing on to Beta and Charlie. We construct two phases of scaffolding at a time, which is followed by hazardous material removal, window restoration, and stone and lighting repair. As each phase is completed, the scaffolding will be disassembled and reassembled on the subsequent phases. This site phasing will occur for the duration of the rehabilitation until all work is complete, and the State Capitol is back to its original beauty and functionality.


JED Trailer Compound
BRAVO
ALPHA
CHARLIE
LIMA
DELTA
KILO
ECHO
JULIETTE
FOXTROT
TUNNEL (will continue across Lincoln)
INDIA
GOLF
HOTEL
N

OKLAHOMA CAPITOL RESTORATION

Exterior Rehabilitation

JE DUNN | TREANOR ARCHITECTS | ADG

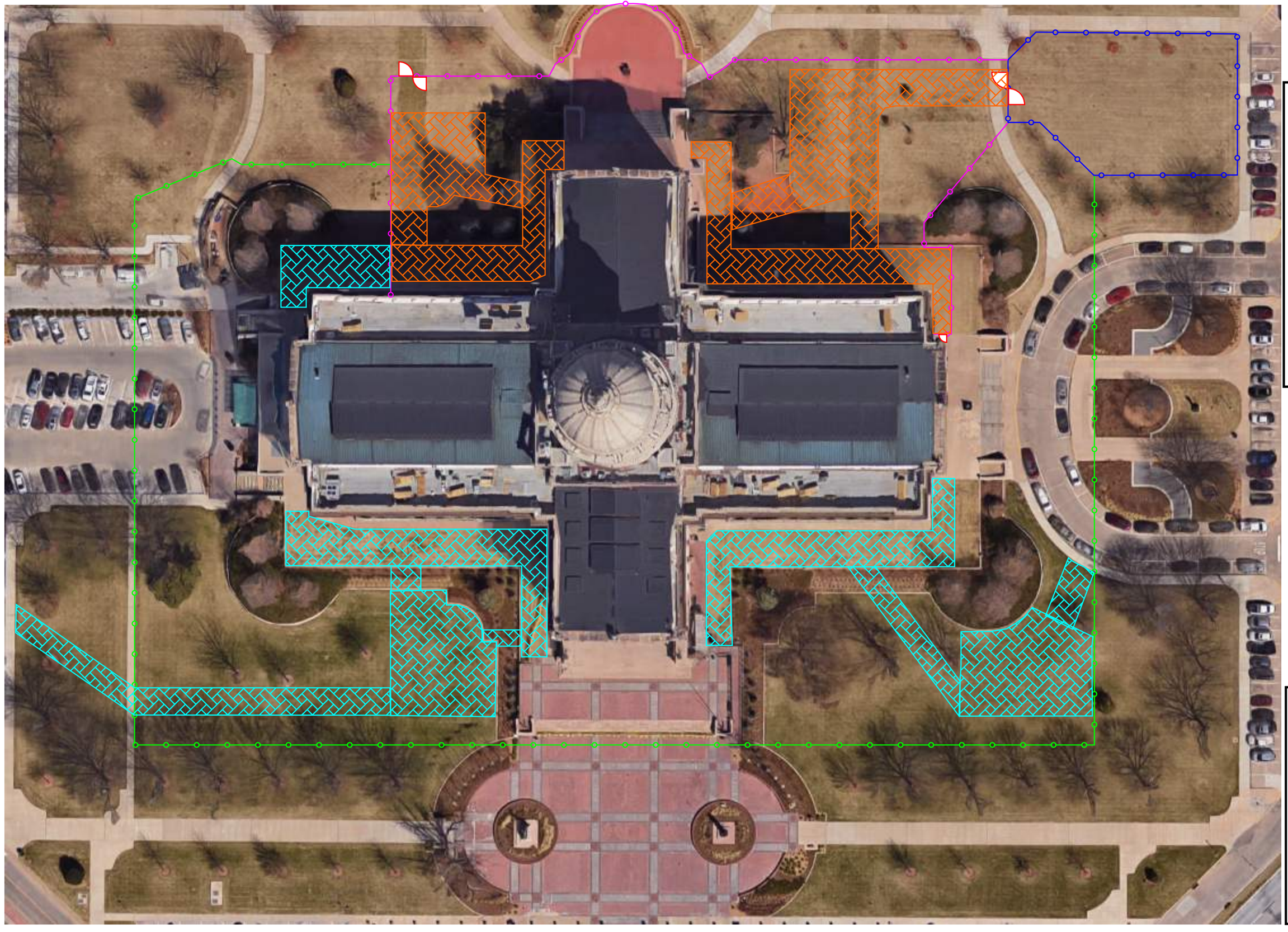
Site Utilization Plan:

Per our site utilization plan, the JE Dunn trailer compound is the designated area for our staff members, trade partners, and material storage areas. It currently houses four field offices.

Our site fencing is a revolving system that isolates our work area from the public as we move around the Capitol building, helping to ensure a safe work environment.

The gravel lay-down areas are designated paths where machinery, supplies, and equipment are stored and provide a roadway for machinery to move supplies to and from the job site. The gravel will also serve as a protective barrier of the subsurface.

Fence gates mark all areas where access can be gained to the job site for material and/or equipment deliveries, emergency access, or personnel access. These gates remain closed and are locked every night to ensure a safe work environment.



Legend:

- -JED Trailer Compound
- -Phase 1 Site Fencing
- -Gravel laydown
- -Fence gate
- -Future phases site fencing
- -Future phases gravel laydown

Project:
Oklahoma State Capitol Rehabilitation

Date:
08.22.2016

Drawing:
Site Utilization Plan

Window Abatement Tracking Plan:

Aside from the erection of the scaffolding, the most significant progress made this month has been the historic window restoration process. Our team is currently performing hazardous material abatement, glass removal, and historic preservation and restoration. The following document shows the progress we have made thus far.

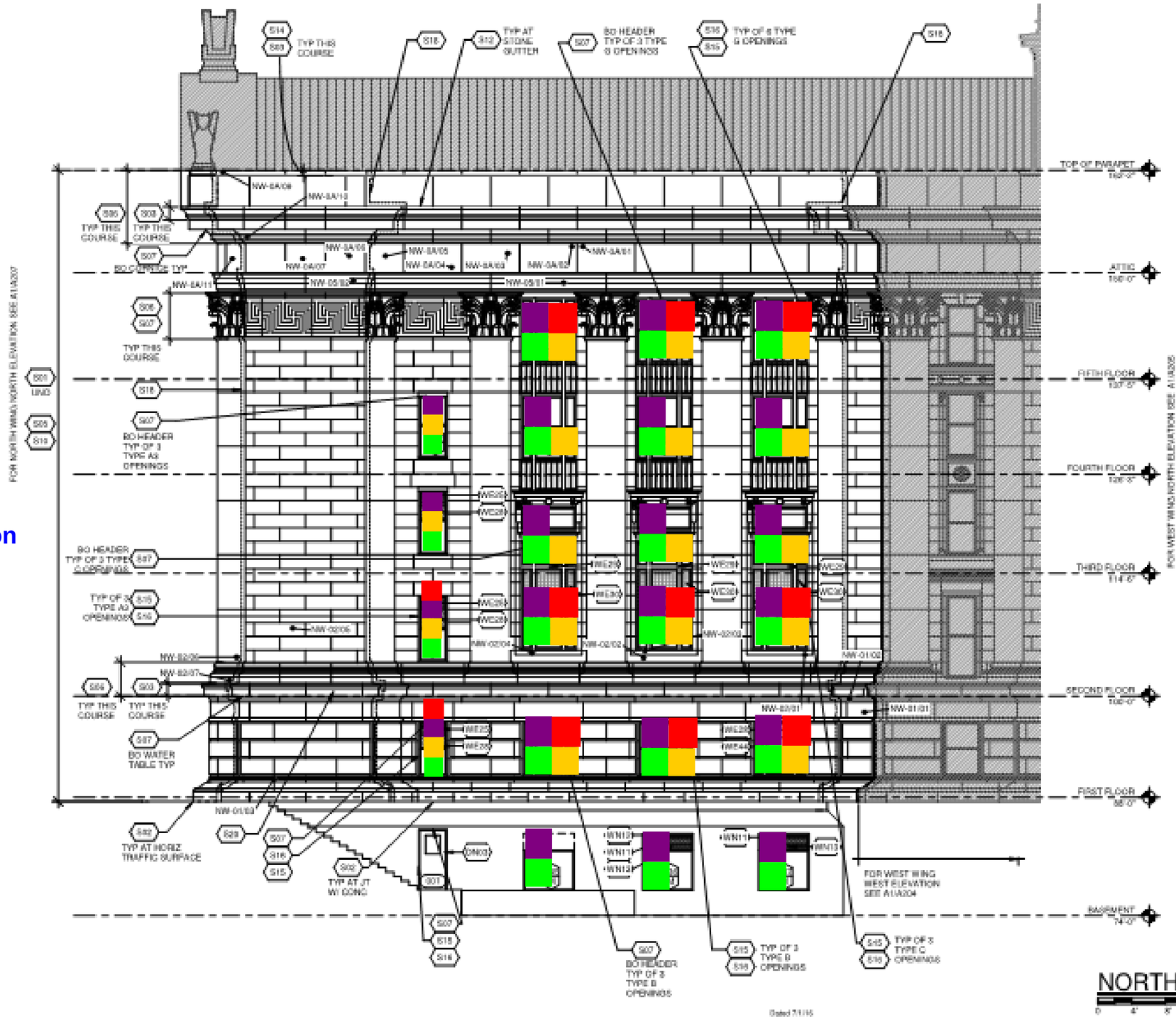
JE DUNN CONSTRUCTION

OKLAHOMA CAPITOL RESTORATION

09/29/2016

Historic Window Restoration Progress Legend

- Lead Paint Removed From Screw Heads
- Storm Window Removed
- Historic Glass Removed
- Lead Paint Removed From Window Frame



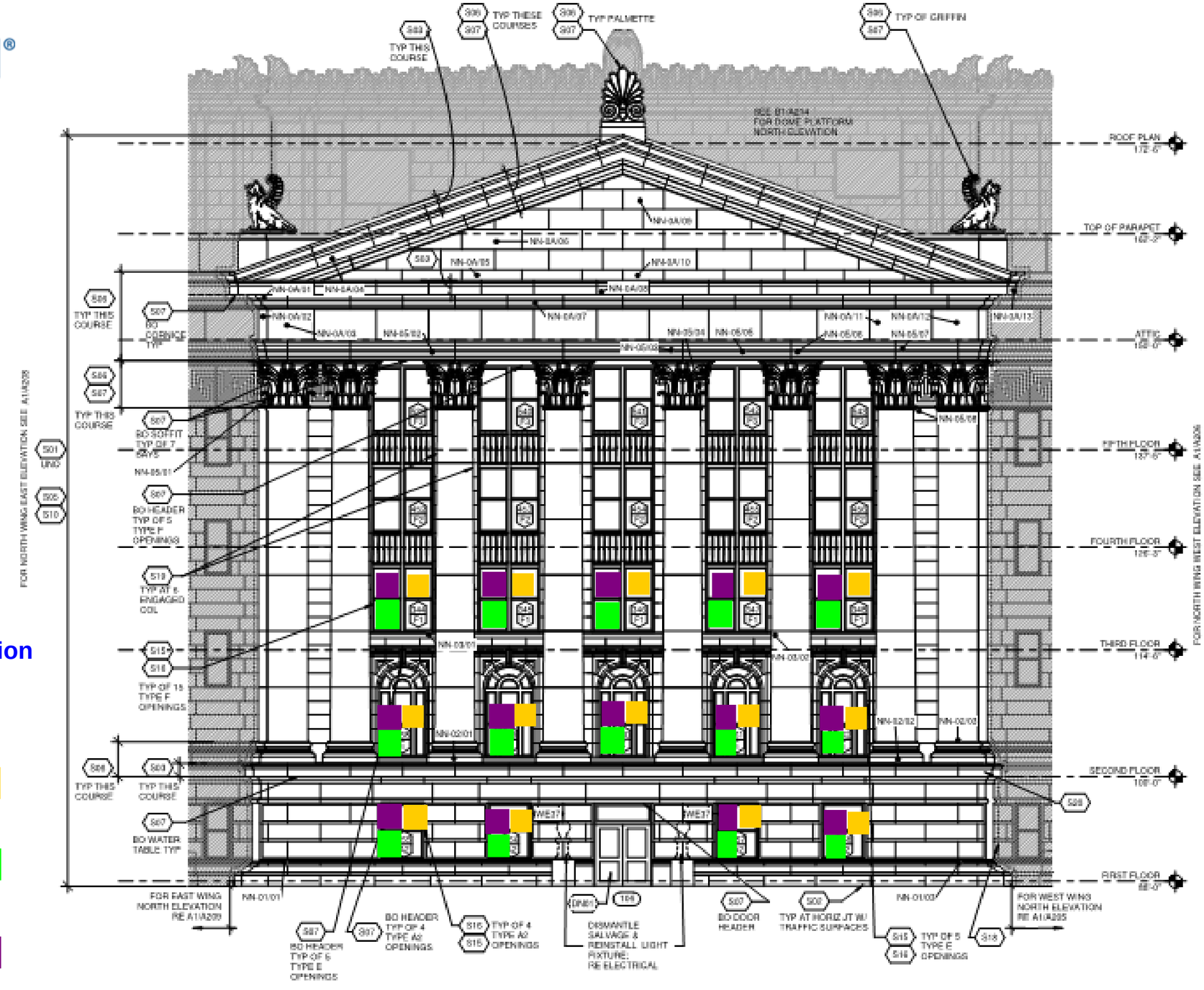
NORTH WING WEST ELEVATION

1/8" = 1'-0"

JE DUNN CONSTRUCTION

OKLAHOMA CAPITOL RESTORATION

09/29/2016



Historic Window Restoration Progress Legend

Lead Paint Removed From Screw Heads

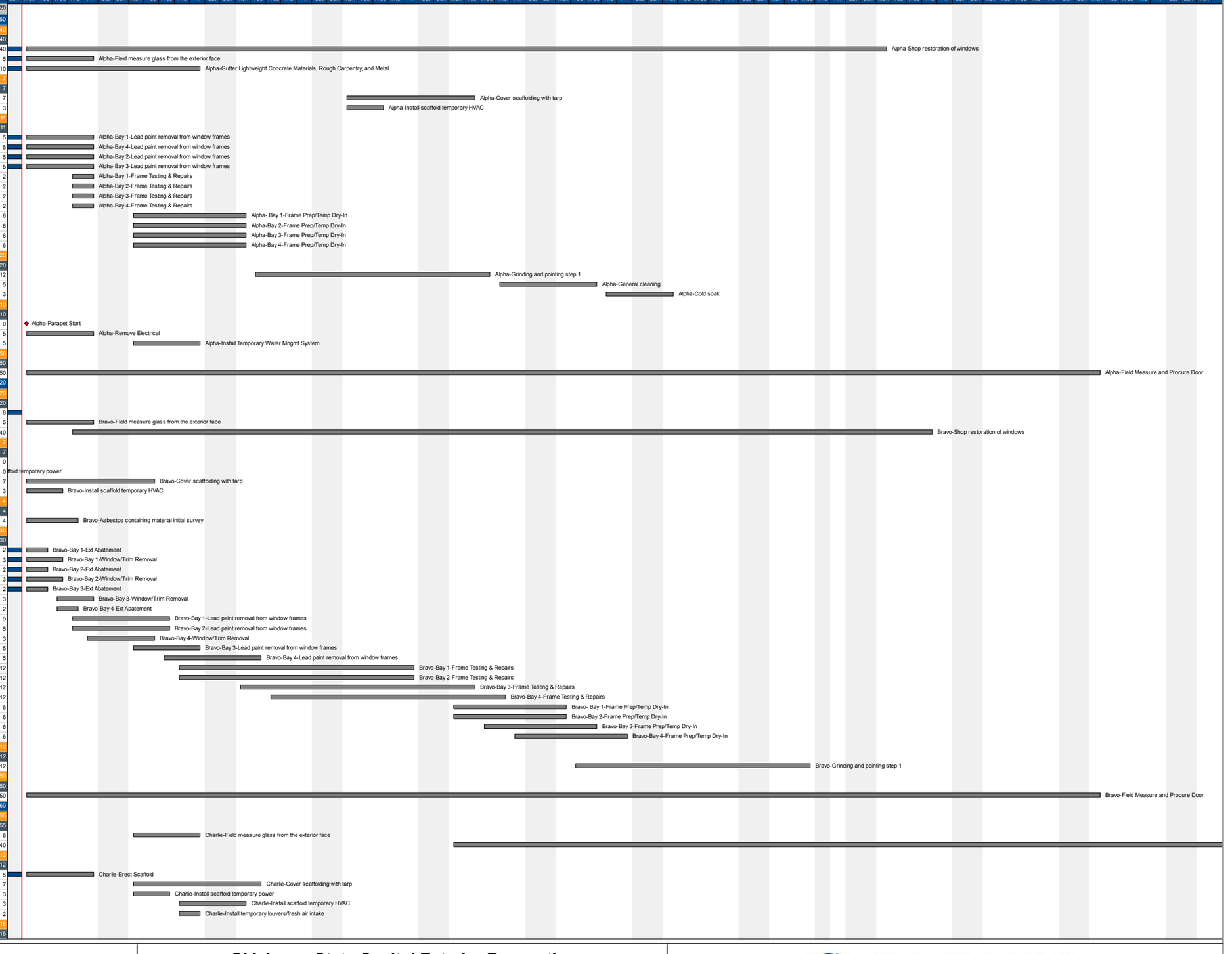
Storm Window Removed

Historic Glass Removed

Lead Paint Removed From Window Frame

NORTH WING NORTH ELEVATION

Activity ID	Activity Name	Contractor/BP	Start	Finish	Actual Start	Actual Finish	Rem Dur
Elevations			29-Aug-16 A	11-May-20	29-Aug-16		920
Alpha- North Wing West Face			15-Sep-16 A	12-Dec-16	15-Sep-16		50
Submittals (E1)			22-Sep-16 A	28-Nov-16	22-Sep-16		40
.			22-Sep-16 A	28-Nov-16	22-Sep-16		40
Typ-1140	Alpha-Shop restoration of windows	02 Wind	22-Sep-16 A	28-Nov-16	22-Sep-16		40
Mock-1020	Alpha-Field measure glass from the exterior face	02 Wind	22-Sep-16 A	07-Oct-16	22-Sep-16		5
CON-30590	Alpha-Gutter Lightweight Concrete Materials, Rough Carpen		28-Sep-16 A	14-Oct-16	28-Sep-16		10
Scaffold			24-Oct-16	01-Nov-16			7
.			24-Oct-16	01-Nov-16			7
Typ-1020	Alpha-Cover scaffolding with tarp	01 Maso	24-Oct-16*	01-Nov-16			7
Typ-1040	Alpha-Install scaffold temporary HVAC	05 M/P	24-Oct-16*	26-Oct-16			3
Window Removal/Abatement			15-Sep-16 A	17-Oct-16	15-Sep-16		11
.			15-Sep-16 A	17-Oct-16	15-Sep-16		11
Typ-1150	Alpha-Bay 1-Lead paint removal from window frames	Envi	15-Sep-16 A	07-Oct-16	15-Sep-16		5
CON-11270	Alpha-Bay 4-Lead paint removal from window frames	Envi	15-Sep-16 A	07-Oct-16	15-Sep-16		5
CON-11170	Alpha-Bay 2-Lead paint removal from window frames	Envi	15-Sep-16 A	07-Oct-16	15-Sep-16		5
CON-11220	Alpha-Bay 3-Lead paint removal from window frames	Envi	15-Sep-16 A	07-Oct-16	15-Sep-16		5
CON-11130	Alpha-Bay 1-Frame Testing & Repairs	02 Wind	06-Oct-16	07-Oct-16			2
CON-11180	Alpha-Bay 2-Frame Testing & Repairs	02 Wind	06-Oct-16	07-Oct-16			2
CON-11230	Alpha-Bay 3-Frame Testing & Repairs	02 Wind	06-Oct-16	07-Oct-16			2
CON-11280	Alpha-Bay 4-Frame Testing & Repairs	02 Wind	06-Oct-16	07-Oct-16			2
CON-11140	Alpha- Bay 1-Frame Prep/Temp Dry-In	02 Wind	10-Oct-16	17-Oct-16			6
CON-11190	Alpha-Bay 2-Frame Prep/Temp Dry-In	02 Wind	10-Oct-16	17-Oct-16			6
CON-11240	Alpha-Bay 3-Frame Prep/Temp Dry-In	02 Wind	10-Oct-16	17-Oct-16			6
CON-11290	Alpha-Bay 4-Frame Prep/Temp Dry-In	02 Wind	10-Oct-16	17-Oct-16			6
Early Stone			18-Oct-16	14-Nov-16			20
.			18-Oct-16	14-Nov-16			20
Typ-1210	Alpha-Grinding and pointing step 1	01 Maso	18-Oct-16	02-Nov-16			12
Typ-1220	Alpha-General cleaning	01 Maso	03-Nov-16	09-Nov-16			5
Typ-1230	Alpha-Cold soak	01 Maso	10-Nov-16	14-Nov-16			3
Parapet			03-Oct-16 A	14-Oct-16	04-Oct-16		10
.			03-Oct-16 A	14-Oct-16	04-Oct-16		10
CON-11579	Alpha-Parapet Start	JED		03-Oct-16			0
CON-11580	Alpha-Remove Electrical	06 Elec	04-Oct-16 A	07-Oct-16	04-Oct-16		5
CON-11582	Alpha-Install Temporary Water Mngmt System	08 MWP	10-Oct-16	14-Oct-16			5
New Door Sequence			03-Oct-16	12-Dec-16			50
Door #1			03-Oct-16	12-Dec-16			50
CON-27350	Alpha-Field Measure and Procure Door		03-Oct-16	12-Dec-16			50
Bravo- North Wing North Face			29-Aug-16 A	11-May-20	29-Aug-16		920
Submittals (E1)			23-Sep-16 A	11-May-20	23-Sep-16		920
.			23-Sep-16 A	11-May-20	23-Sep-16		920
CON-15870	Bravo-Engineering approval of scaffold design	SCAFF	23-Sep-16 A	11-May-20	23-Sep-16		6
CON-15900	Bravo-Field measure glass from the exterior face	02 Wind	03-Oct-16	07-Oct-16			5
CON-15880	Bravo-Shop restoration of windows	02 Wind	06-Oct-16	01-Dec-16			40
Scaffold			29-Aug-16 A	11-Oct-16	29-Aug-16		7
.			29-Aug-16 A	11-Oct-16	29-Aug-16		7
CON-15920	Bravo-Erect Scaffold	01 Maso	29-Aug-16 A	21-Sep-16 A	29-Aug-16	21-Sep-16	0
CON-15930	Bravo-Install scaffold temporary power	06 Elec	21-Sep-16 A	29-Sep-16 A	21-Sep-16	29-Sep-16	0
CON-15940	Bravo-Cover scaffolding with tarp	01 Maso	03-Oct-16	11-Oct-16			7
CON-15950	Bravo-Install scaffold temporary HVAC	05 M/P	03-Oct-16	05-Oct-16			3
Interior			04-Oct-16 A	06-Oct-16	04-Oct-16		4
.			04-Oct-16 A	06-Oct-16	04-Oct-16		4
CON-16010	Bravo-Asbestos containing material initial survey	Envi	04-Oct-16 A	06-Oct-16	04-Oct-16		4
Window Removal/Abatement			21-Sep-16 A	11-Nov-16	21-Sep-16		30
.			21-Sep-16 A	11-Nov-16	21-Sep-16		30
CON-16060	Bravo-Bay 1-Ext Abatement	Envi	21-Sep-16 A	04-Oct-16	21-Sep-16		2
CON-16070	Bravo-Bay 1-Window/Trim Removal	02 Wind	21-Sep-16 A	05-Oct-16	21-Sep-16		3
CON-16080	Bravo-Bay 2-Ext Abatement	Envi	21-Sep-16 A	04-Oct-16	21-Sep-16		2
CON-16100	Bravo-Bay 2-Window/Trim Removal	02 Wind	21-Sep-16 A	05-Oct-16	21-Sep-16		3
CON-16110	Bravo-Bay 3-Ext Abatement	Envi	21-Sep-16 A	04-Oct-16	21-Sep-16		2
CON-16130	Bravo-Bay 3-Window/Trim Removal	02 Wind	05-Oct-16	07-Oct-16			3
CON-16140	Bravo-Bay 4-Ext Abatement	Envi	05-Oct-16	06-Oct-16			2
CON-16090	Bravo-Bay 1-Lead paint removal from window frames	Envi	06-Oct-16	12-Oct-16			5
CON-16120	Bravo-Bay 2-Lead paint removal from window frames	Envi	06-Oct-16	12-Oct-16			5
CON-16160	Bravo-Bay 4-Window/Trim Removal	02 Wind	07-Oct-16	11-Oct-16			3
CON-16150	Bravo-Bay 3-Lead paint removal from window frames	Envi	10-Oct-16	14-Oct-16			5
CON-16180	Bravo-Bay 4-Lead paint removal from window frames	Envi	12-Oct-16	18-Oct-16			5
CON-16170	Bravo-Bay 1-Frame Testing & Repairs	02 Wind	13-Oct-16	28-Oct-16			12
CON-16190	Bravo-Bay 2-Frame Testing & Repairs	02 Wind	13-Oct-16	28-Oct-16			12
CON-16210	Bravo-Bay 3-Frame Testing & Repairs	02 Wind	17-Oct-16	01-Nov-16			12
CON-16230	Bravo-Bay 4-Frame Testing & Repairs	02 Wind	19-Oct-16	03-Nov-16			12
CON-16200	Bravo- Bay 1-Frame Prep/Temp Dry-In	02 Wind	31-Oct-16	07-Nov-16			6
CON-16220	Bravo-Bay 2-Frame Prep/Temp Dry-In	02 Wind	31-Oct-16	07-Nov-16			6
CON-16240	Bravo-Bay 3-Frame Prep/Temp Dry-In	02 Wind	02-Nov-16	09-Nov-16			6
CON-16250	Bravo-Bay 4-Frame Prep/Temp Dry-In	02 Wind	04-Nov-16	11-Nov-16			6
Early Stone			08-Nov-16	23-Nov-16			12
.			08-Nov-16	23-Nov-16			12
CON-16260	Bravo-Grinding and pointing step 1	01 Maso	08-Nov-16	23-Nov-16			12
New Door Sequence			03-Oct-16	12-Dec-16			50
Door #106			03-Oct-16	12-Dec-16			50
CON-27440	Bravo-Field Measure and Procure Door		03-Oct-16	12-Dec-16			50
Charlie- North Wing East Face			22-Sep-16 A	27-Dec-16	22-Sep-16		60
Submittals (E1)			10-Oct-16	27-Dec-16			55
.			10-Oct-16	27-Dec-16			55
CON-12690	Charlie-Field measure glass from the exterior face	02 Wind	10-Oct-16	14-Oct-16			5
CON-12670	Charlie-Shop restoration of windows	02 Wind	31-Oct-16	27-Dec-16			40
Scaffold			22-Sep-16 A	18-Oct-16	22-Sep-16		12
.			22-Sep-16 A	18-Oct-16	22-Sep-16		12
CON-12710	Charlie-Erect Scaffold	01 Maso	22-Sep-16 A	07-Oct-16	22-Sep-16		5
CON-12730	Charlie-Cover scaffolding with tarp	01 Maso	10-Oct-16	18-Oct-16			7
CON-12720	Charlie-Install scaffold temporary power	06 Elec	10-Oct-16	12-Oct-16			3
CON-12740	Charlie-Install scaffold temporary HVAC	05 M/P	13-Oct-16	17-Oct-16			3
CON-12750	Charlie-Install temporary louvers/fresh air intake	JED	13-Oct-16	14-Oct-16			2
Interior			04-Oct-16 A	21-Oct-16	04-Oct-16		15
.			04-Oct-16 A	21-Oct-16	04-Oct-16		15



4 -Week Look-Ahead
Data Date: 03-Oct-16
Run Date: 04-Oct-16; 16:10

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JE DUNN® CONSTRUCTION

Activity ID	Activity Name	Contractor/BP	Start	Finish	Actual Start	Actual Finish	Rem Dur
CON-12800	Charlie-Asbestos containing material initial survey	Envi	04-Oct-16 A	06-Oct-16	04-Oct-16		4
CON-12810	Charlie-Install interior partitions	JED	10-Oct-16	21-Oct-16			10
Window Removal/Abatement			24-Oct-16	08-Nov-16			12
.			24-Oct-16	08-Nov-16			12
CON-12850	Charlie-Bay 1-Ext Abatement	Envi	24-Oct-16	25-Oct-16			2
CON-12860	Charlie-Bay 1-Window/Trim Removal	02 Wind	26-Oct-16	28-Oct-16			3
CON-12870	Charlie-Bay 2-Ext Abatement	Envi	26-Oct-16	27-Oct-16			2
CON-12890	Charlie-Bay 2-Window/Trim Removal	02 Wind	28-Oct-16	01-Nov-16			3
CON-12900	Charlie-Bay 3-Ext Abatement	Envi	28-Oct-16	31-Oct-16			2
CON-12880	Charlie-Bay 1-Lead paint removal from window frames	Envi	31-Oct-16	04-Nov-16			5
CON-12920	Charlie-Bay 3-Window/Trim Removal	02 Wind	01-Nov-16	03-Nov-16			3
CON-12930	Charlie-Bay 4-Ext Abatement	Envi	01-Nov-16	02-Nov-16			2
CON-12910	Charlie-Bay 2-Lead paint removal from window frames	Envi	02-Nov-16	08-Nov-16			5
Parapet			18-Oct-16	08-Nov-16			15
.			18-Oct-16	08-Nov-16			15
CON-13460	Charlie-Parapet Start	JED		18-Oct-16			0
CON-13470	Charlie-Remove Electrical	06 Elec	19-Oct-16	25-Oct-16			5
CON-13480	Charlie-Install Temporary Water Mngmt System	08 MWP	26-Oct-16	01-Nov-16			5
CON-30330	Charlie-Roofing Abatement		02-Nov-16	08-Nov-16			5
Delta- East Wing North Face			05-Oct-16	15-Nov-16			30
Submittals (E1)			05-Oct-16	18-Oct-16			10
.			05-Oct-16	18-Oct-16			10
CON-18260	Delta-Submit Scaffold Engineering	01 Maso	05-Oct-16	11-Oct-16			5
CON-18270	Delta-Engineering approval of scaffold design	SCAFF	12-Oct-16	18-Oct-16			5
Scaffold			19-Oct-16	15-Nov-16			20
.			19-Oct-16	15-Nov-16			20
CON-18320	Delta-Erect Scaffold	01 Maso	19-Oct-16	15-Nov-16			20
CON-18310	Delta-Install Overhead Protection @ Entrances	JED	19-Oct-16	25-Oct-16			5
Interior			19-Oct-16	25-Oct-16			5
.			19-Oct-16	25-Oct-16			5
CON-18410	Delta-Asbestos containing material initial survey	Envi	19-Oct-16	25-Oct-16			5