NOISE MANAGEMENT PLAN

March 2021 – October 2021

BROWARD COUNTY CONVENTION CENTER

1850 - 1950 Eisenhower Boulevard

Fort Lauderdale, FL 33316

Table of Contents

1 Description of Work 3
2 Contractor Contacts 5
3 Equipment 5
4 Noise and Vibration Predictions 6
5 Noise and Vibration Control Measures 7
6 Complaint Response 8
6.1 Procedure and recording of complaints 8
6.2 Community Notification 8
7 COVID 19 8
8 Appendices 9
8.1 Site Plan & Location Map 9
8.2 Community Notification 9
8.3 Community Notification Distribution Area 9
8.4 Equipment Predicated Noise Emissions 9
8.5 Distance to Condo Map 9
8.6 Noise Monitoring Report 9
8.7 Construction Estimate Schedule 9
8.8 COVID 19 Project Protocols 9
8.9 Rain Fall Information for 2020 9
8.10 NV5 Signed and Sealed Engineered Calculation 9

1 Description of Work

- Steel Erection, Steel Detailing, Concrete Pours, Civil work, Interior Masonry, MEPF Systems and Finishes at the Convention Center. The work would commence at 7 AM and be completed by 10 PM (15 hours) Monday through Saturday. On Sunday, the work would commence at 10 AM and be completed by 7 PM. The off hours will commence on March 11th and continue through October of 2021. *No person shall operate or cause to be operated any equipment used in construction, repair, alteration or demolition work on buildings, structures, streets, alleys, or appurtenances thereto with sound-control devices less effective than those provided on the original equipment prior to 7 AM and after 10 PM.*
- The equipment with the most amount of noise will be utilized during daylight hours only (Reference the Noise and Vibration Predictions below and Appendix 8.10 which shows the noise generated from the construction will reduce to below the ambient noise level adjacent to the local residences due to distance from the construction to the residence). The average duration of steel erection will be approximately 10 – 12 hours Monday through Saturday and approximately 9 hours on Sunday. The Steel erection will take place only during daylight hours and welding/detailing will take place on off hours (no sound control equipment will be utilized prior to 7 AM and after 10 PM).
- See attached estimated schedule for the description of work (Reference Appendix 8.7)

Table 1: Description of Work Schedule

Subcontractor Work	Daylight to Dusk (Monday – Saturday, Sunday)	Monday – Saturday: 7 AM – 10 PM (15 Hours) Sunday: 10 AM – 7 PM (9 Hours)
Steel Erection	Yes	Only during Daylight
Civil Work	Yes	Yes
Steel Detailing	Yes	Yes
Interior Masonry	Yes	Yes
MEPF Systems	Yes	Yes
Concrete Pours	Yes	Yes
Finishes	Yes	Yes

- Site Plan & Location Map (Reference Appendix 8.1)

- Legal Description:

  - 1850 Eisenhower Boulevard:
    PORT EVERGLADES PLAT NO 2 108-31 B POR OF PAR A DESC AS:COMM SW COROF NE1/4 OF SE1/4 OF SEC 14-50 42,NLY 289,ELY 95 TO POB,ELY 220 NLY 792,WLY 220,SLY 411,WLY 15, SLY 110,ELY 15,SLY 271 TO POB

  - 1950 Eisenhower Boulevard:
    PORT EVERGLADES PLAT NO 2 108-31 B PARCEL A LESS POR DESC:COMM SW COR OF NE1/4 OF SE1/4 OF SEC 14-50-42,NLY 289,ELY 95 TO POB, ELY 220,NLY 792,WLY 220,SLY 411, WLY 15,SLY 110,ELY 15,SLY 271 TO POB,& LESS POR PAR A DESC AS COM NW COR PAR A,E 80 TO POB,CONT E 832,S 288.81,W 114.03,N 88.96,W 475.01,N 29.73,W 235,N 168.61 TO POB

- Justification for Work:

  - Safely putting more people to work during COVID-19

  - There has been a significant increase in rainfall during 2020 which has impacted the construction schedule by 30+ workdays. The project is estimating that in order to make up the 30+ days, the project will have to work two (2) shifts through the completion of the project. The project completion date is October 15th, 2021 and it is estimated that the 2021 Boat Show will start loading around the 10th of October.

  - The project estimates that the building will be dried in (Building envelope will be completed) no later than June of 2021. This will significantly reduce any noise outside of the project as the majority of the work will be inside the building. The Dry in will start as early as April of 2021 with an anticipated dry in date of June of 2021. The noise level will continue at the same level through the beginning of March and slowly start to decrease through the completion of the dry in of the building. The shortest distance from the work to the nearest residential condo is 580 feet (Reference Appendix 8.5). The distance from the work to the nearest residence should not be any more significate than 17th street itself (reference Noise Monitoring Report appendix 8.6).

- The second shift will help accelerate the project.
- Early morning concrete pours will help alleviate the amount of Construction traffic on SE 17th Street during peak traffic hours.
- The above will reduce the impact of construction on the surrounding residential neighborhoods and businesses by keeping the project within the original completion date.

- Commencement Date and Duration of Work:
  - The second shift will commence on March 11th, 2021 and continue through October of 2021.
  - Steel Erection, Concrete Pours, Interior Masonry, Civil, MEPF, and Finishes activities will be in accordance with the attached estimated schedule.

2 Contractor Contacts

Balfour Beatty Construction – Broward County Convention Center Project Team – Table 2

Table 2: BBC Contact List

Name	Position	Contact Number
Ron Ferguson	General Superintendent	(407) 713-1877
Chris Baran	Senior Project Manager	(407) 461-4107
Tom Stedem	Senior Project Manager	(863) 640-0298
Jose Rodriguez	Superintendent	(407) 304-9401
Justin Valdes	Assistant Superintendent	(407) 572-5654

3 Equipment

- The equipment used for construction work is the quietest reasonably available.
- Equipment that may generate noise during the second shift are as follows:
  - Cranes
  - Concrete Trucks
  - Concrete Pumps
  - Concrete Vibrators
  - Back-up Alarm on Construction Equipment
  - Material Delivery Trucks
- The duration of use of equipment and/or period of work will vary depending on each activity. Noise generated will be intermittent based on specific activity taking place (i.e. – back-up warning alarm from trucks, concrete vibrators, pump trucks, etc...)

4 Noise and Vibration Predictions

- Reference Appendix 8.10 NV5 Signed and Sealed Engineered Calculation showing that the noise generated from the construction project is equal to or less than the surrounding ambient noise. Reference the last paragraph of page 3 and all of the information on page 4 for specifics. The following is the information from the bottom of page 3 and 4:

> *In order to determine compliance with the City regulations a calculation of noise at the adjacent properties is necessary. Noise reduces with distance and using a standard calculation noise may be predicted based upon an initial level and distance. The use of the inverse square law allows predication in that a sound level (intensity) will drop off as distance increases. This law which has been demonstrated by evidence and actual measurement calculates a six (6) decibel drop with a doubling of the distance in feet. Considering the 85-decibel level for the forklift at 570 feet noise would reduce to 64 dBA.*
>
> *The predicted level is presuming no uninterrupted path for the sound and that no existing levels are considered. However, the largest reduction of noise would be the shadowing of any noise at the Convention Center by existing noise from the community and traffic on SE 17th Street.*
>
> *Measured levels from October 31, 2020 through December 16, 2020 show that noise from the adjacent street area and associated community produce levels that do not regularly go below 60-65 decibels up to 70 decibels. This data shows a solid noise level that exists over this period consistently. This may be considered as the "ambient" level of noise. Graphs are attached following the conclusion of this letter that show data from the noise meter for a series of dates which also identify City time frames and working shifts. Also shown are two graphs showing overall noise levels as the one minute maximum levels from October 28 through December 16, 2020. As the noise levels are 60 – 65 decibels at the minimum the 64 dBA generated by the forklift would be obscured by community ambient levels. Also, considering the noise levels occur 24-hours over this range of noise, the 60 dBA daytime and 50 dBA nighttime noise limits of the City cannot be met due to ambient conditions. In our opinion the noise levels projected to the north properties would not be in excess of the noise regulations of the City.*

- Equipment Noise Emission Levels (Lmax Noise (dba) 50 ft):
    - Concrete Trucks – 85
    - Concrete Pumps – 82
    - Concrete Vibrators – 80
    - Back-up Alarm – 97 – 112
    - Crane – 85

- The aforementioned equipment predicated noise emissions can be reviewed in the Appendices below or on the U.S. Department of Transportation Highway Administration website (Link HERE).

5 Noise and Vibration Control Measures

- We have installed a noise monitoring device located adjacent to the nearest residential condo to demonstrate that the noise generated during the off hours outside of 8 AM to 7 PM are equivalent to the noise generated from 17th Street and the surrounding areas. Reference attached GeoSonics report for noise monitoring (Appendix 8.6).

- Only the equipment necessary for Concrete pours, Interior Masonry, MEPF Systems, and Finishes will be utilized prior to and after the normal Construction operation hours of 8 AM to 7 PM.
    - Concrete Truck back-up alarms will be switched to ambient white noise to lessen noise emissions by 18 dBA when safety protocols allow.
    - On-site traffic patterns will be coordinated to minimize backing up movement.
    - Deliveries will be sequenced appropriately to reduce the amount of idling Trucks.

- We do not anticipate any heavy vibration during the concrete pours and no pile work will be conducted during this time frame.

6 Complaint Response

6.1 Procedure and recording of complaints

- The Balfour Beatty Construction – Broward County Convention Center Team will be responsible for logging and responding to all complaints

- Any complaints can be made via phone or in writing to:

Balfour Beatty Construction	Balfour Beatty Construction
ATTN: Ron Ferguson	ATTN: Chris Baran
7901 S.W. 6th Court, Ste. 200	7901 S.W. 6th Court, Ste. 200
Plantation, FL 33324	Plantation, FL 33324
(407) 713-1877	(407) 461-4107

6.2 Community Notification

- Balfour Beatty Construction will post a Community Notification around the project site on the perimeter fence and with the Condo Association announcement boards in the adjacent condo building. In addition, notifications will be left in mailboxes of adjacent businesses. (Reference Appendix 8.3).
- The project will also utilize the Fort Lauderdale Office of Neighbor Support to ensure maximum outreach.
- Notifications will identify all second shift work and will be posted prior to the commencement of work.
- Reference Appendices for Community Notification Letter and Distribution Area.

7 COVID 19

Balfour Beatty Construction is closely monitoring the COVID 19 pandemic and ensuring every measure is being followed in the office and the field to the safety of the workers and the surrounding community. (Reference our COVID 19 Project Protocols in Appendix 8.8).

8 Appendices

8.1 Site Plan & Location Map

8.2 Community Notification

8.3 Community Notification Distribution Area

8.4 Equipment Predicated Noise Emissions

8.5 Distance to Condo Map

8.6 Noise Monitoring Report

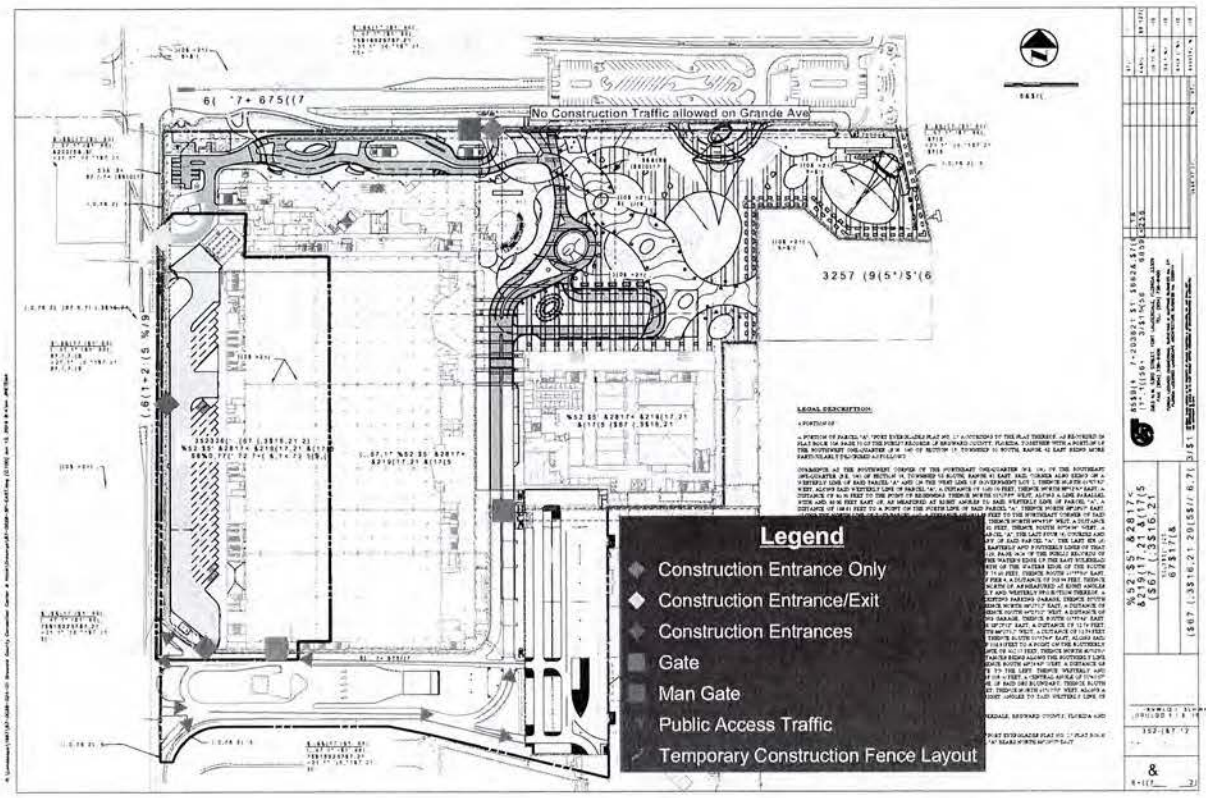
8.7 Construction Estimate Schedule

8.8 COVID 19 Project Protocols

8.9 Rain Fall Information for 2020

8.10 NV5 Signed and Sealed Engineered Calculation

BCCCH - Site Logistics Plan



8.1 Site Plan & Location Map

Stantec

PRELIMINARY
NOT FOR
CONSTRUCTION

PUBLIC NOTICE

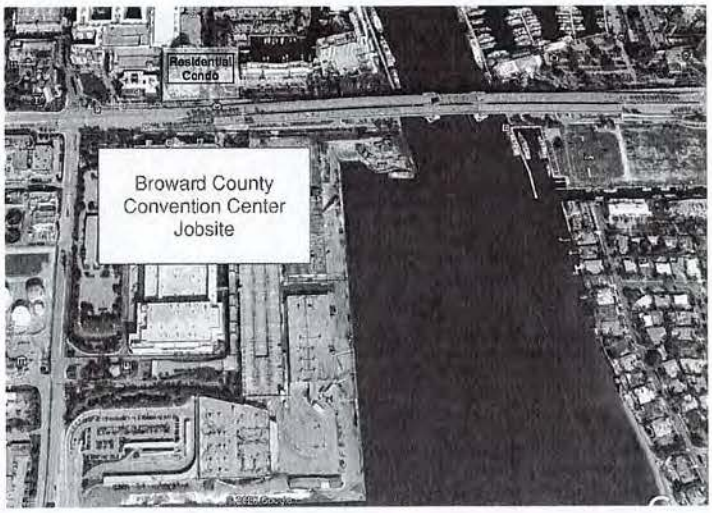
EARLY MORNING CONCRETE POUR, STEEL DETAILING, STEEL ERECTION INTERIOR MASONRY, MEPF SYSTEMS, AND FINISHES ADVISORY

BROWARD COUNTY

CONVENTION CENTER

1850 - 1950 Eisenhower Boulevard Fort Lauderdale, FL 33316

Please be advised that the Broward County Convention Center at 1850-1950 Eisenhower Boulevard, Fort Lauderdale, FL 33316 will be conducting second shift work Monday – Saturday 7 AM to 10 PM and Sunday 10 AM to 7 PM beginning March 11th, 2021 and will continue through October of 2021.

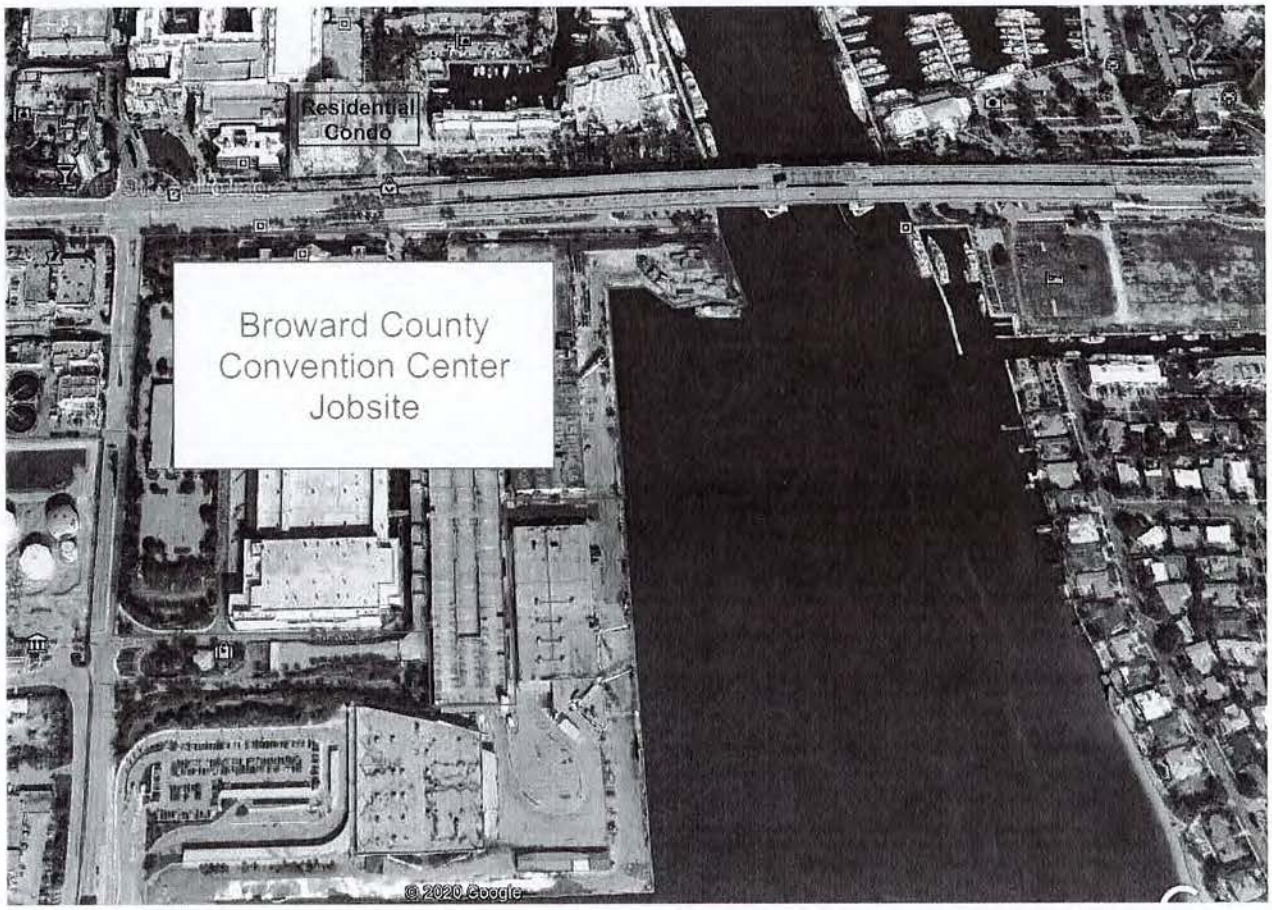


Balfour Beatty Construction

ATTN: Ron Ferguson
7901 S.W. 6th Court, Ste. 200
Plantation, FL 33324
(407) 713-1877

ATTN: Chris Baran
7901 S.W. 6th Court, Ste. 200
Plantation, FL 33324
(407) 461-4107

Balfour Beatty



Community Notification Distribution Area

8.3 Community Notification Distribution Area

Effective Noise Control During Nighttime Construction

Workshops > Reduced Demand

Introduction

In recent years there have been fundamental changes in the types of projects that Departments of Transportation (DOT) are constructing. Today a significant number of projects are urban widening/rehabilitation work where daylight construction closures of the routes cause unacceptable congestion problems. Therefore, because of the high traffic volumes during the normal workday on these major urban transportation corridors, it is usually only possible to perform construction operations during the nighttime.

Departments of Transportation are writing into the specifications for these projects severe restrictions on when a contractor can execute the work. Typically the work must be performed at night. In turn, these nighttime work requirements precipitated disturbances to adjacent property owners'. When residents complain the path of their complaints is often through their local government. Additionally, the resulting complaints are coming during a climate of national concern about the adverse effects of environmental noise.

In the conduct of their construction and rehabilitation programs agencies struggle with three interested and impacted parties that must be satisfied.

- The driving public both commercial and private
- The community through which the transportation corridor traverses
- The construction contractors

This is a compilation of methods and techniques for mitigating nighttime construction nuisances. Mitigation is a critical requirement for serving the traveling public, for conducting DOT business in a responsible manner, and for preparing valid contract documents.

Problems

The major nuisances associated with the nighttime construction are noise, vibration, and illumination. Noise problems are normally caused by the operation of heavy equipment and specifically by vehicle and machine backup-alarms, Table 1. Vibration problems are primarily a result of pile driving, blasting operations, or the use of vibratory rollers. While good illumination is necessary for the work to proceed at night and for the safety of the traveling public, proper work zone illumination can be very intrusive to project neighbors. There is also concern by Departments about exposure to possible contractor claims if noise objectives are not properly presented in the contract documents.

A telephone survey of state DOTs found that many require adherence to certain noise (decibel) limits during nighttime construction. In many cases these limits are the consequence of specific local ordinances. Some Departments indicated that they could receive local ordinance waivers rather easily. Other Departments stated that they had jurisdiction over the local municipalities in these matters, but they tried to abide by the local ordinances.

TABLE 1. Critical Nighttime Construction Noise Generators

Noise Generator	Percent of DOTs identifying as Cause of Problems*
Back-up Alarms	41%
Slamming Tailgates	27%
Hoe Rams	24%

Milling/Grinding Machines	16%
Earthmoving Equipment	14%
Crushers	6%

*As rated by the 50 State DOTs

Sound

The human ear does not judge sound in absolute terms, but instead senses the intensity of how many times greater one sound is to another. A decibel is the basic unit of sound level; it denotes a ratio of intensity to a reference sound. Most sounds that humans are capable of hearing have a decibel (dB) range of 0 to 140. A whisper is about 30 dB, conversational speech 60 dB, and 130 dB is the threshold of physical pain, Fig. 1.

Figure 1. Representative Noise Levels

Noise levels tested (in increasing decibel level) include: sound studio (20 dB), quiet office (40 dB), conversation (60 dB), noisy restaurant (75 dB), chain saw (120 dB), jet plane (148 dB), and saturn rocket (200 dB).

Sound and noise are not the same thing, but sound becomes noise when:

- It is too loud
- It is unexpected
- It is uncontrollable
- It occurs unexpectedly
- It has *pure tone components*

Noise is any sound that has the potential to annoy or disturb humans, or cause an adverse psychological or physiological effect on humans. In the case of the general population a 5 dBA change is required before most people realize there is a perceptible sound difference.

The noise levels generated during the construction process vary depending on the type of equipment and the nature of the work being performed. It should be recognized that noise impacts can be severe, especially during nighttime activities, and that in many cases simple noise mitigation strategies will not suffice.

Noise generation on most construction projects is the result of equipment operation with diesel engines being the primary generators. Equipment components that generate noise include: the engine, cooling fan, air intake, exhaust, transmission, and tires. In assessing noise generation, construction equipment can be grouped into two categories, stationary and mobile. Equipment noise can also be categorized as being either continuous or impulse in nature. Stationary equipment is considered to operate in one location for one or more days at a time; pumps, generators, compressors, screens, are typical examples of stationary equipment. In addition, pile drivers and pavement breakers are sometimes categorized as stationary equipment. Mobile equipment includes machinery that performs cyclic processes such as: bulldozers, scrapers, loaders, and haul trucks.

Equipment Noise

Construction equipment is a major noise generator on nearly all nighttime construction projects. The equipment type, specific model, equipment condition and the operation performed influence equipment noise. Equipment manufacturers began attacking machine noise problems in the late '60s and today because of design improvements and technological advances new machines have been quieted to an acceptable level for almost every situation. *Newer equipment is noticeably quieter than older models*due primarily to better engine mufflers, refinements in fan design and improved hydraulic systems. Noise levels as generated by typical equipment are shown in Table 2.

How equipment noise will be perceived is also a function of use duration. On a monitored project in New Jersey the highest noise levels resulted from pile driving; but, because the driving was completed in a short period of time, the activity did not draw any complaints.

One of the conclusions from the U.S. Department of Transportation's 1979 construction equipment noise study was that 88 dBA is a reasonable noise level to expect for *used*equipment with an engine horsepower of 400 or less. It should be noted that the USDOT tests were made in the field under actual operating conditions at road construction sites, mines and quarries.

In 1994 and 1995 Harris Miller Miller & Hanson Inc. performed noise studies for the Central Artery/Tunnel project in Boston. The first study sought to quantify an *average*noise level while the second defined a *typical* noise level. It would seem that a typical value is better to use in developing specifications or project restrictions. That data delineates the most commonly occurring level.

Table 2. Construction Equipment Noise Emission Levels

Equipment	**Typical Noise Level (dBA) 50 ft., U. S. Dept. of Trans. study 1979**	**Average Noise Level (dBA) 50 ft., CA/T Project study 1994**	**Typical Noise Level (dBA) 50 ft., U. S. Dept. of Trans. study 1995**	**Lmax Noise (dBA) 50 ft., CA/T Project Spec. 721.560**
Air Compressor		85	81	80
Backhoe	84	83	80	80
Chain Saw				85
Compactor	82		82	80
Compressor	90	85		80
Concrete Truck		81		85
Concrete Mixer			85	85
Concrete Pump			82	82
Concrete Vibrator			76	80
Crane, Derrick	86	87	88	85
Crane, Mobile		87	83	85
Dozer	88	84	85	85
Drill Rig		88		85
Dump Truck		84		84
Excavator				85
Generator	84	78	81	82
Gradall		86		85
Grader	83		85	85
Hoe Ram		85		90
Impact Wrench			85	85
Jackhammer*		89	88	85
Loader	87	86	85	80
Paver	80		89	85
Pile Driver, Impact		101	101	95
Pile Driver, Sonic			96	95
Pump	80		85	77

8.4 Equipment Predicated Noise Emissions

Rock Drill			98	85
Roller			74	80
Scraper	89		89	85
Slurry Machine		91		82
Slurry Plant				78
Truck	89	85	88	84
Vacuum Excavator				85

* There are 82 dBA @ 7 meter rated jackhammers (90 lb. class) available. This would be equivalent to 74 dBA @ 50 ft. These are silenced with molded intricate muffler tools.

Equipment Noise Control Options

Listed in Table 3 are the major sources of equipment noise that cause complaints. The Table also lists specific methods for controlling the identified noise problem.

Table 3. Construction Equipment Noise Control Options

Noise Source	**Control**
Backup alarms	Use manually-adjustable alarms
	Use self adjusting alarms
	Use an observer
	Configure traffic pattern to minimize backing movement
Slamming tailgates	Establish truck cleanout staging areas
	Use rubber gaskets
	Decrease speed of closure
	Use bottom dump trucks
Pavement breakers (jackhammers)	Fit with manufacturer approved exhaust muffler
	Prohibit within 200 ft. of a noise sensitive location during nighttime hours
	Enclose with a noise tent
Prolonged idling of equipment	Reduce idling
	Locate equipment away from noise sensitive areas

Ambient-sensitive self-adjusting backup alarms increase or decrease their volume based on background noise levels. These alarms work best on smaller equipment such as backhoes and trucks. The alarm self-adjusts to produce a tone that is readily noticeable over ambient noise levels (a minimum increment of 5 decibels is typically considered readily noticeable), but not so loud as to be a constant annoyance to neighbors. The typical alarm adjustment is 82 or 107 dBA. Close attention must be give to the alarm's mounting location on the machine in order to minimize engine noise interference, which can be sensed by the alarm as the ambient noise level. These alarms should be mounted as far to the rear of the machine as possible. An alarm mounted directly behind a machine's radiator will sense the cooling fan's noise and adjust accordingly, Figure 2. Such a mounting will **negate the purpose of the device.**

Manually-adjustable alarms are effective in reducing backup alarm noise nuisance but their use requires that each alarm be set at the beginning of each day and night shift. The manual setting feature eliminates the machine mounting location problem of the ambient-sensitive self-adjusting backup alarms. The manually adjustable alarms typically have an 87 and 107 dBA setting range, with the 87 dBA setting used for nighttime operations.

Noise Mitigation

Of interest in terms of community noise impact is the overall noise resulting from a construction site. The noise of each individual piece of equipment and sometimes the highest noise source is not always the number one priority. Noise control is directed toward modification of a perceived sound field. It strives to change the impact at the receiver so that the sounds conform to a desired level. Mitigation of undesired sounds should consider source control, path control, and receptor control Figure 3.

Figure 2. A Self-Adjusting Backup Alarm Mounted in the Wrong Position

Figure 3. Noise Transfer Situation

The Noise Transfer Situation shows the relation between sources, such as a pile driver, loader and truck, and their paths, groundborne vibration and direct sound (which includes a reverberant field) to the receiver. The relation is detailed below.

The Pile Driver creates a groundborne vibration path to the receiver. The loader and truck create a direct sound (reverberant field) path to the receiver.

Source Controls

Source control is the most effective method of eliminating noise problems. It is a cardinal rule that, where possible, noises control should occur at the source. Source controls, which limit noise emissions, are the easiest to oversee on a construction project. Source mitigation reduces the noise problem everywhere not just along a single path or for one receiver. Consequently, a project's noise mitigation strategy should emphasize noise control at the source.

Require Construction Operations Planning

Restrict the movement of equipment into and through the construction site. Long-term impacts are generated along haul routes when there are large quantities of materials to be moved. Reroute truck traffic away from residential streets. Impose seasonal limitations on construction noise, the spring or fall are critical times in residential areas because windows are usually open at night.

Example Specifications

Where practical and feasible, construction sites shall be configured to minimize back-up alarm noise. For example, construction site access should be designed such that delivery trucks move through the site in a circular manner without the need to back up.

Require Modern Equipment

Unions recognize construction noise as a hazard to workers and the first of five things suggested to workers to address the problem is that they "Ask contractors to buy quieter equipment when they buy new equipment." DOT specification of equipment noise emission limits forces the use of modern equipment having better engine insulation and mufflers. The emission levels specified should reflect levels that can reasonably be achieved with well-maintained equipment, see Table 3.

Equipment Restrictions

Restrict the type of equipment used.

Example Specifications

The use of impact pile drivers shall be prohibited during evening and nighttime hours.

All jackhammers and pavement breakers used on the construction site shall be fitted with manufacturer's approved exhaust mufflers.

The use of pneumatic impact equipment (i.e. pavement breakers, jackhammers) shall be prohibited within 200 feet of a noise-sensitive location during nighttime hours.

The local power grid shall be used wherever feasible to limit generator noise. No generators larger than 25 KVA shall be used and, where a generator is necessary, it shall have a maximum noise muffling capacity.

Call the contractor's attention to the back-up alarm noise problem and require measures to address the issue.

By specification direct the use of only power grid connected or solar powered traffic control devices, Figure 4.

Example Specifications

All variable message/sign boards shall be solar powered or connected to the local power grid.

Figure 4. Solar Powered Traffic Control Devices

Operate at Minimum Power

Noise emission levels tend to increase with equipment operating power. This is a critical issue with older street sweepers, demolition work using a hoe-ram, and equipment such as vac-trucks, Figure 5. Require that such equipment operate at the lowest possible power levels.

Figure 5. vac-truck working at night

Use Quieter Alternate Equipment

Electric or hydraulic powered equipment is usually quieter than a diesel-powered machine. Encourage contractors to use alternate equipment. Use electric tower cranes, Fig. 6, instead of diesel power mobile cranes

Figure 6. Electric Tower Cranes for Bridge Construction

Path Controls

Alone, source noise controls are frequently inadequate at adequately minimizing noise impacts on abutting sensitive receptors because of the close proximity to residences and businesses in urban areas and because of the very nature of the construction work. Thus, having exhausted all possible mitigation methods of controlling noise at the source, the second line of attack is controlling noise radiation along its transmission path. Noise path barriers should provide a substantial reduction in noise levels, should be cost effective, and should be implementable in a practical manner without limiting accessibility. Barriers can increase a project's visual impact. This visual change can have either a positive or negative impact. Therefore, aesthetic effects must be considered when designing barrier systems.

Path Mitigation Techniques

Once established, only reflection, diffraction insulation or dissipation can modify an airborne sound field. In other words, it is necessary to increase the distance from the source or to use some form of solid object to either destroy part of the sound energy by absorption, or to redirect part of the energy by wave deflection. The three techniques for path mitigation are therefore:

Distance

Reflection

Absorption

Enclose especially Noisy Activities or Stationary Equipment

Enclosures can provide a 10 to 20 dBA sound reduction. Additionally the visual impact of roadwork activities has an affect on how construction sounds are perceived. An important noise mitigation issue, therefore, is the audio-visual sensing factor. Enclosures address both the absolute audio and the visual perception issue, Figure 7.

Example Specifications

All jackhammers and pavement breakers used at the construction site shall be enclosed with shields, acoustical barrier enclosures, or noise barriers.

Figure 7. Slurry Plant Enclosure for Audio-Visual and Dust Control

Conclusions

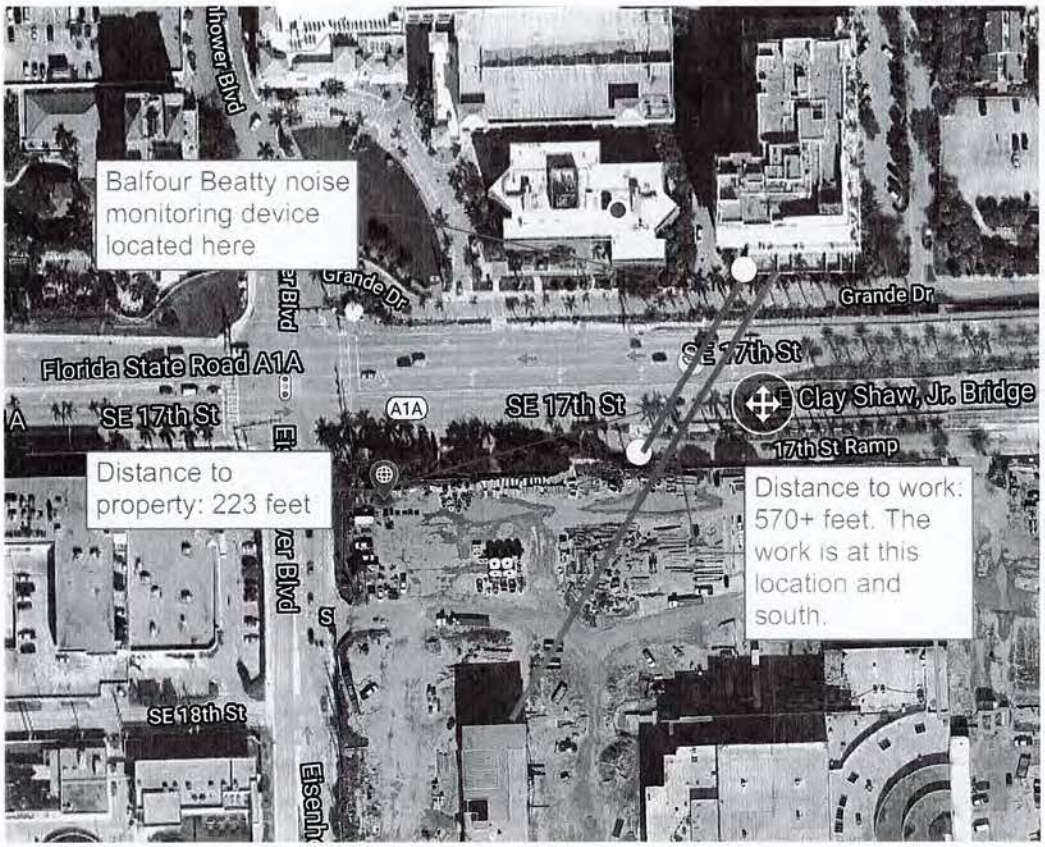
A significant number of future construction projects will involve urban work. Therefore, it is important that before contracts are advertised and bid that there be an objective assessment as to the magnitude of noise nuisances. Noise problems are normally caused by the operation of heavy equipment. The identification of methods and techniques for mitigating such nuisances is a critical planning requirement for both owners and contractors.

Source control is the most effective method of controlling construction noise. Source controls, which limit noise, are the easiest to oversee on a construction project. Mitigation at the source reduces the problem everywhere not just along one single path or for one receiver. The specification of equipment *noise emission limits*forces the use of modern equipment having better engine insulation and mufflers.

Path Controls are the second line of attack in controlling noise. Barriers can provide a substantial reduction in the nuisance effect in some cases. The use of barriers should be examined against other possible measures to prove that they are cost effective. Further, aesthetic effects must be considered when designing barrier systems. Path control measures include:

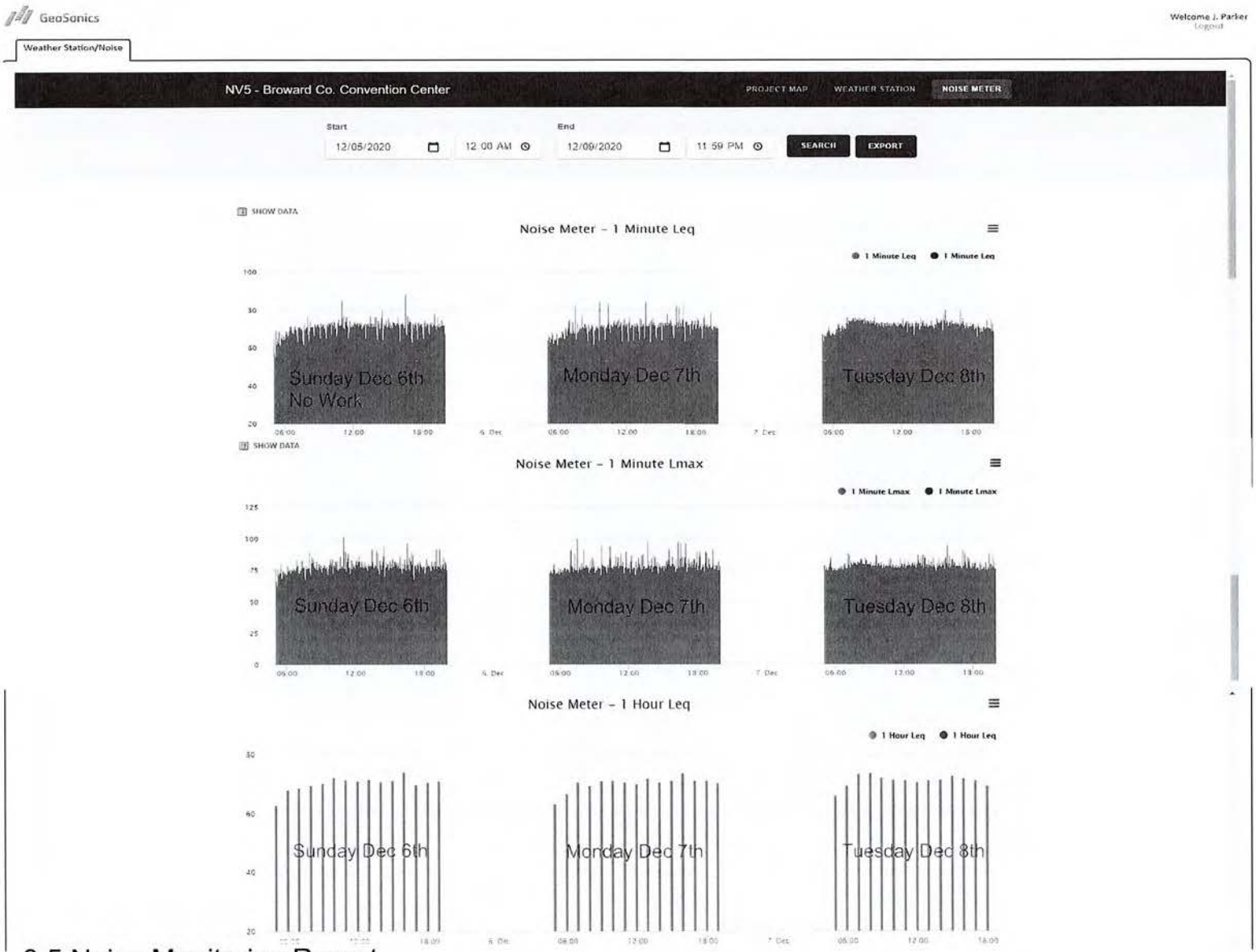
- Move equipment farther away from the receiver
- Enclose especially noisy activities or stationary equipment
- Erect noise barriers or curtains
- Use landscaping as a shield and dissipater

BCCCH - Distance to Condo



Balfour Beatty

8.5 Distance to Condo Map

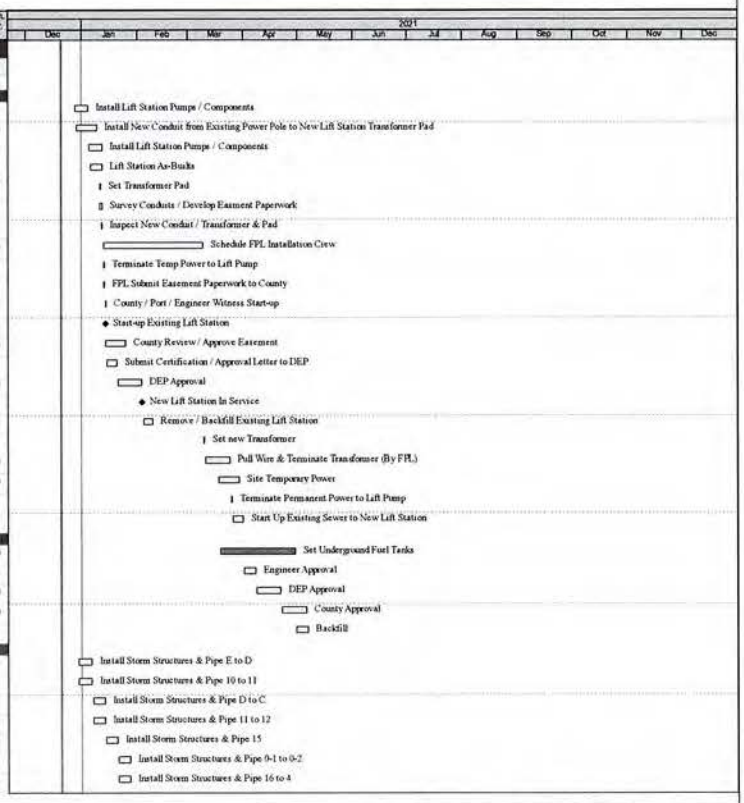


8.5 Noise Monitoring Report

BCCCH - Civil Remaining Work in 2021

Data Date 20-Dec-20
Print Date 09-Dec-20 14:28

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Broward County Convention Center - West Expansion					
West Expansion					
GMP No. 1 - Warehouse Demo & Utility Re-Alignment					
Lift Station					
WE1-695	Install Lift Station Pumps / Components	28-Dec-20	04-Jan-21	5	5
WE1-785	Install New Conduit from Existing Power Pole to New Lift Station Transformer Pad	29-Dec-20	09-Jan-21	10	10
WE1-1085	Install Lift Station Pumps / Components	05-Jan-21	12-Jan-21	7	7
WE1-1360	Lift Station As-Builts	06-Jan-21	12-Jan-21	5	5
WE1-875	Set Transformer Pad	11-Jan-21	11-Jan-21	1	1
WE1-1380	Survey Conduits / Develop Easment Paperwork	11-Jan-21	12-Jan-21	2	2
WE1-895	Inspect New Conduit / Transformer & Pad	12-Jan-21	12-Jan-21	1	1
WE1-905	Schedule FPL Installation Crew	13-Jan-21	09-Mar-21	40	40
WE1-1350	Terminate Temp Power to Lift Pump	13-Jan-21	13-Jan-21	1	1
WE1-1390	FPL Submit Easement Paperwork to County	13-Jan-21	13-Jan-21	1	1
WE1-1110	County / Port / Engineer Witness Start-up	14-Jan-21	14-Jan-21	1	1
WE1-1120	Start-up Existing Lift Station	14-Jan-21		0	0
WE1-1400	County Review / Approve Easement	14-Jan-21	25-Jan-21	10	10
WE1-1090	Submit Certification / Approval Letter to DEP	15-Jan-21	20-Jan-21	4	4
WE1-1100	DEP Approval	21-Jan-21	03-Feb-21	10	10
WE1-935	New Lift Station In Service		03-Feb-21	0	0
WE1-640	Remove / Backfill Existing Lift Station	04-Feb-21	09-Feb-21	5	5
WE1-730	Set new Transformer	10-Mar-21	10-Mar-21	1	1
WE1-915	Pull Wire & Terminate Transformer (By FPL)	11-Mar-21	24-Mar-21	10	10
WE1-955	Site Temporary Power	18-Mar-21	29-Mar-21	10	10
WE1-945	Terminate Permanent Power to Lift Pump	25-Mar-21	25-Mar-21	1	1
WE1-705	Start Up Existing Sewer to New Lift Station	26-Mar-21	31-Mar-21	5	5
Sewer					
WE2-8770	Set Underground Fuel Tanks	19-Mar-21	29-Apr-21	30	30
WE1-1130	Engineer Approval	01-Apr-21	07-Apr-21	5	5
WE1-1140	DEP Approval	08-Apr-21	21-Apr-21	10	10
WE1-1150	County Approval	22-Apr-21	05-May-21	10	10
WE2-8810	Backfill	30-Apr-21	06-May-21	5	5
Storm					
WE1-835	Install Storm Structures & Pipe E to D	30-Dec-20	06-Jan-21	5	5
WE1-1420	Install Storm Structures & Pipe 10 to 11	30-Dec-20	06-Jan-21	5	5
WE1-845	Install Storm Structures & Pipe D to C	07-Jan-21	13-Jan-21	5	5
WE1-970	Install Storm Structures & Pipe 11 to 12	07-Jan-21	13-Jan-21	5	5
WE1-940	Install Storm Structures & Pipe 15	14-Jan-21	20-Jan-21	5	5
WE1-920	Install Storm Structures & Pipe 0-1 to 0-2	21-Jan-21	27-Jan-21	5	5
WE1-930	Install Storm Structures & Pipe 16 to 4	21-Jan-21	27-Jan-21	5	5



Balfour Beatty

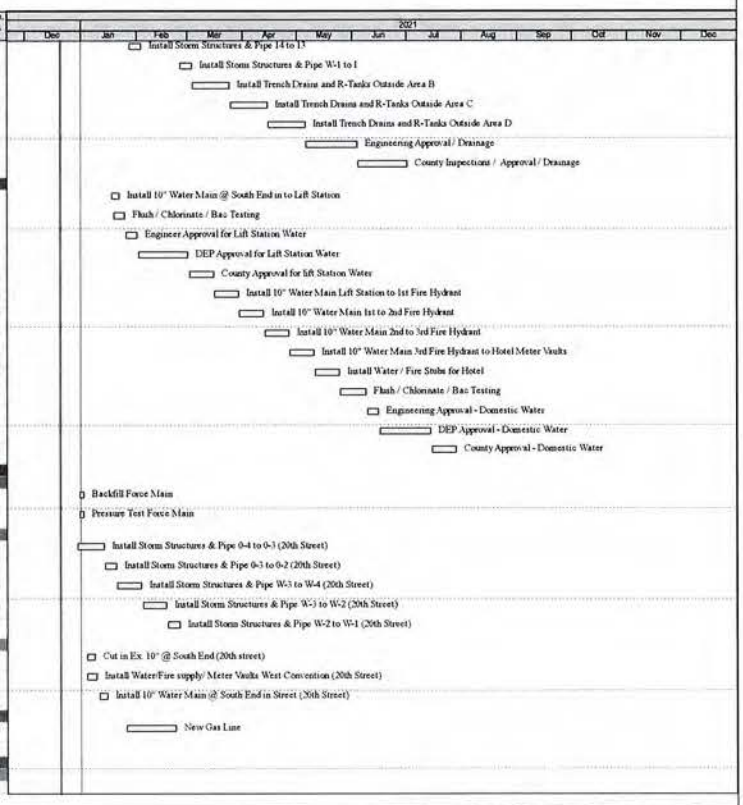
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Civil Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:28

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE1-950	Install Storm Structures & Pipe 14 to 13	28-Jan-21	03-Feb-21	5	5
WE1-765	Install Storm Structures & Pipe W-1 to I	25-Feb-21	03-Mar-21	5	5
WE1-1060	Install Trench Drains and R-Tanks Outside Area B	04-Mar-21	24-Mar-21	15	15
WE1-1070	Install Trench Drains and R-Tanks Outside Area C	25-Mar-21	14-Apr-21	15	15
WE1-1080	Install Trench Drains and R-Tanks Outside Area D	15-Apr-21	05-May-21	15	15
WE1-1160	Engineering Approval / Drainage	06-May-21	03-Jun-21	20	20
WE1-1170	County Inspections / Approval / Drainage	04-Jun-21	01-Jul-21	20	20
Domestic Water					
WE1-830	Install 10" Water Main @ South End in to Lift Station	18-Jan-21	22-Jan-21	5	5
WE1-700	Flush / Chlorinate / Bac Testing	19-Jan-21	25-Jan-21	5	5
WE1-840	Engineer Approval for Lift Station Water	26-Jan-21	01-Feb-21	5	5
WE1-850	DEP Approval for Lift Station Water	02-Feb-21	01-Mar-21	20	20
WE1-860	County Approval for lift Station Water	02-Mar-21	15-Mar-21	10	10
WE1-1190	Install 10" Water Main Lift Station to 1st Fire Hydrant	16-Mar-21	29-Mar-21	10	10
WE1-1200	Install 10" Water Main 1st to 2nd Fire Hydrant	30-Mar-21	12-Apr-21	10	10
WE1-1210	Install 10" Water Main 2nd to 3rd Fire Hydrant	13-Apr-21	26-Apr-21	10	10
WE1-1220	Install 10" Water Main 3rd Fire Hydrant to Hotel Meter Vaults	27-Apr-21	10-May-21	10	10
WE1-1230	Install Water / Fire Stubs for Hotel	11-May-21	24-May-21	10	10
WE1-1240	Flush / Chlorinate / Bac Testing	25-May-21	08-Jun-21	10	10
WE1-1250	Engineering Approval - Domestic Water	09-Jun-21	15-Jun-21	5	5
WE1-1260	DEP Approval - Domestic Water	16-Jun-21	14-Jul-21	20	20
WE1-1270	County Approval - Domestic Water	15-Jul-21	28-Jul-21	10	10
20th Street					
Sewer					
WE1-1095	Backfill Force Main	31-Dec-20	02-Jan-21	2	2
WE1-1105	Pressure Test Force Main	31-Dec-20	02-Jan-21	2	2
Storm					
WE1-900	Install Storm Structures & Pipe 0-4 to 0-3 (20th Street)	30-Dec-20	13-Jan-21	10	10
WE1-910	Install Storm Structures & Pipe 0-3 to 0-2 (20th Street)	14-Jan-21	20-Jan-21	5	5
WE1-885	Install Storm Structures & Pipe W-3 to W-4 (20th Street)	21-Jan-21	03-Feb-21	10	10
WE1-650	Install Storm Structures & Pipe W-3 to W-2 (20th Street)	04-Feb-21	17-Feb-21	10	10
WE1-660	Install Storm Structures & Pipe W-2 to W-1 (20th Street)	18-Feb-21	24-Feb-21	5	5
Domestic Water					
WE1-680	Cut in Ex. 10" @ South End (20th street)	04-Jan-21	08-Jan-21	5	5
WE1-670	Install Water/Fire supply/ Meter Vaults West Convention (20th Street)	04-Jan-21	09-Jan-21	6	6
WE1-690	Install 10" Water Main @ South End in Street (20th Street)	11-Jan-21	15-Jan-21	5	5
Gas					
WE1-800	New Gas Line	26-Jan-21	22-Feb-21	20	20
GMP No. 2 - West Expansion					
Construction					
Civil / Site					
Plaza Area - Northeast					



Balfour Beatty

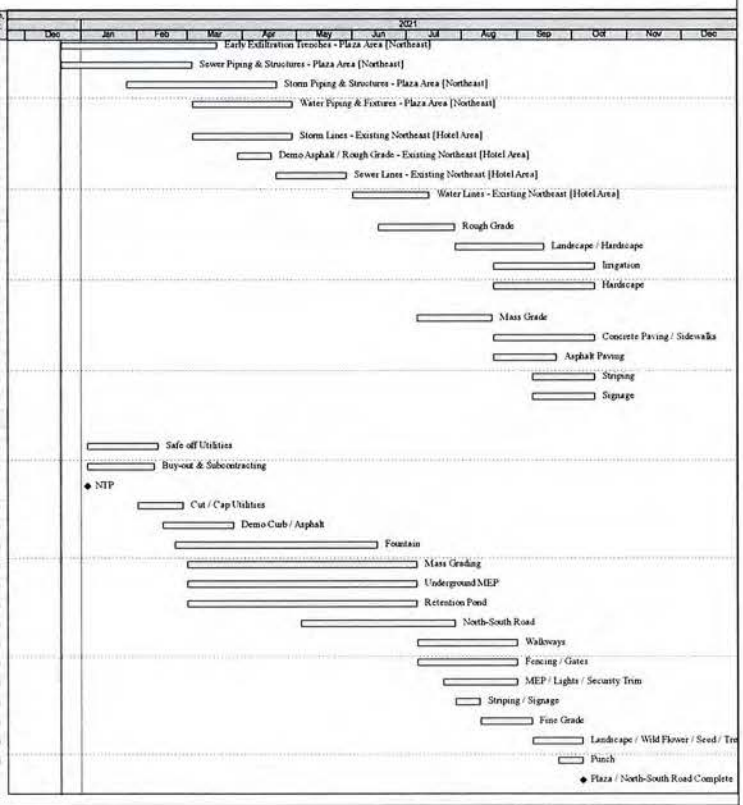
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Civil Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:28

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
PLZ2-7250	Early Exfiltration Trenches - Plaza Area [Northeast]	21-Dec-20	17-Mar-21	60	60
PLZ2-7290	Sewer Piping & Structures - Plaza Area [Northeast]	21-Dec-20	03-Mar-21	50	50
PLZ2-7260	Storm Piping & Structures - Plaza Area [Northeast]	26-Jan-21	19-Apr-21	60	60
PLZ2-7300	Water Piping & Fixtures - Plaza Area [Northeast]	04-Mar-21	28-Apr-21	40	40
Existing Northeast - Hotel Area					
HTL2-2050	Storm Lines - Existing Northeast [Hotel Area]	04-Mar-21	28-Apr-21	40	40
HTL2-1740	Demo Asphalt / Rough Grade - Existing Northeast [Hotel Area]	29-Mar-21	16-Apr-21	15	15
HTL2-2000	Sewer Lines - Existing Northeast [Hotel Area]	19-Apr-21	28-May-21	30	30
HTL2-2100	Water Lines - Existing Northeast [Hotel Area]	01-Jun-21	13-Jul-21	30	30
Hardscape / Landscape					
WE2-8710	Rough Grade	15-Jun-21	27-Jul-21	30	30
WE2-8660	Landscape / Hardscape	28-Jul-21	15-Sep-21	35	35
WE2-8720	Irrigation	18-Aug-21	13-Oct-21	40	40
WE2-8730	Hardscape	18-Aug-21	13-Oct-21	40	40
Paving / Parking					
WE2-8740	Mass Grade	07-Jul-21	17-Aug-21	30	30
WE2-8670	Concrete Paving / Sidewalks	18-Aug-21	13-Oct-21	40	40
WE2-8700	Asphalt Paving	18-Aug-21	22-Sep-21	25	25
WE2-8690	Striping	09-Sep-21	13-Oct-21	25	25
WE2-8750	Signage	09-Sep-21	13-Oct-21	25	25
Capital Improvement					
Plaza / North-South Road					
WE2-9315	Safe off Utilities	04-Jan-21	12-Feb-21	30	30
WE2-9318	Buy-out & Subcontracting	04-Jan-21	10-Feb-21	28	28
WE2-9321	NTP	04-Jan-21		0	0
WE2-9324	Cut / Cap Utilities	01-Feb-21	26-Feb-21	20	20
WE2-9327	Demo Curb / Asphalt	15-Feb-21	26-Mar-21	30	30
WE2-9330	Fountain	22-Feb-21	14-Jun-21	80	80
WE2-9333	Mass Grading	01-Mar-21	06-Jul-21	90	90
WE2-9336	Underground MEP	01-Mar-21	06-Jul-21	90	90
WE2-9339	Retention Pond	01-Mar-21	06-Jul-21	90	90
WE2-9342	North-South Road	03-May-21	27-Jul-21	60	60
WE2-9345	Walkways	07-Jul-21	31-Aug-21	40	40
WE2-9348	Fencing / Gates	07-Jul-21	31-Aug-21	40	40
WE2-9351	MEP / Lights / Security Trim	21-Jul-21	31-Aug-21	30	30
WE2-9354	Striping / Signage	28-Jul-21	10-Aug-21	10	10
WE2-9357	Fine Grade	11-Aug-21	08-Sep-21	20	20
WE2-9360	Landscape / Wild Flower / Seed / Trees	09-Sep-21	06-Oct-21	20	20
WE2-9363	Punch	23-Sep-21	06-Oct-21	10	10
WE2-9366	Plaza / North-South Road Complete		06-Oct-21	0	0



Balfour Beatty

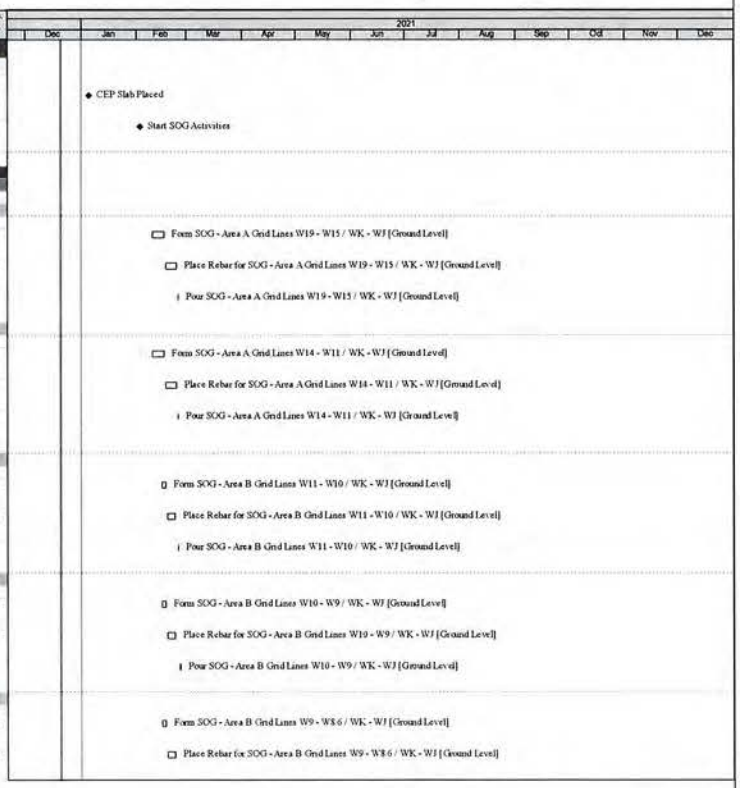
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Concrete Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:19

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Broward County Convention Center - West Expansion					
West Expansion					
West Expansion Construction Milestones					
PM-080	CEP Slab Placed		05-Jan-21	0	0
PM-010	Start SOG Activities	03-Feb-21		0	0
GMP No. 2 - West Expansion					
Construction - West West					
Structure					
Area A - Grid Lines WK, WJ, WI					
W19 - W15					
Ground Level					
WE2-7173	Form SOG - Area A Grid Lines W19 - W15 / WK - WJ [Ground Level]	10-Feb-21	16-Feb-21	5	5
WE2-7175	Place Rebar for SOG - Area A Grid Lines W19 - W15 / WK - WJ [Ground Level]	17-Feb-21	23-Feb-21	5	5
WE2-7177	Pour SOG - Area A Grid Lines W19 - W15 / WK - WJ [Ground Level]	24-Feb-21	24-Feb-21	1	1
W15 - W11					
Ground Level					
WE2-7185	Form SOG - Area A Grid Lines W14 - W11 / WK - WJ [Ground Level]	10-Feb-21	16-Feb-21	5	5
WE2-7187	Place Rebar for SOG - Area A Grid Lines W14 - W11 / WK - WJ [Ground Level]	17-Feb-21	23-Feb-21	5	5
WE2-7189	Pour SOG - Area A Grid Lines W14 - W11 / WK - WJ [Ground Level]	24-Feb-21	24-Feb-21	1	1
Area B - Grid Lines WK, WJ, WI					
W11 - W10					
Ground Level					
WE2-7207	Form SOG - Area B Grid Lines W11 - W10 / WK - WJ [Ground Level]	15-Feb-21	17-Feb-21	3	3
WE2-7209	Place Rebar for SOG - Area B Grid Lines W11 - W10 / WK - WJ [Ground Level]	18-Feb-21	22-Feb-21	3	3
WE2-7211	Pour SOG - Area B Grid Lines W11 - W10 / WK - WJ [Ground Level]	24-Feb-21	24-Feb-21	1	1
W10 - W9					
Ground Level					
WE2-7223	Form SOG - Area B Grid Lines W10 - W9 / WK - WJ [Ground Level]	15-Feb-21	17-Feb-21	3	3
WE2-7225	Place Rebar for SOG - Area B Grid Lines W10 - W9 / WK - WJ [Ground Level]	18-Feb-21	22-Feb-21	3	3
WE2-7227	Pour SOG - Area B Grid Lines W10 - W9 / WK - WJ [Ground Level]	25-Feb-21	25-Feb-21	1	1
W9 - W8.6					
Ground Level					
WE2-7239	Form SOG - Area B Grid Lines W9 - W8.6 / WK - WJ [Ground Level]	15-Feb-21	17-Feb-21	3	3
WE2-7241	Place Rebar for SOG - Area B Grid Lines W9 - W8.6 / WK - WJ [Ground Level]	18-Feb-21	22-Feb-21	3	3



Balfour Beatty

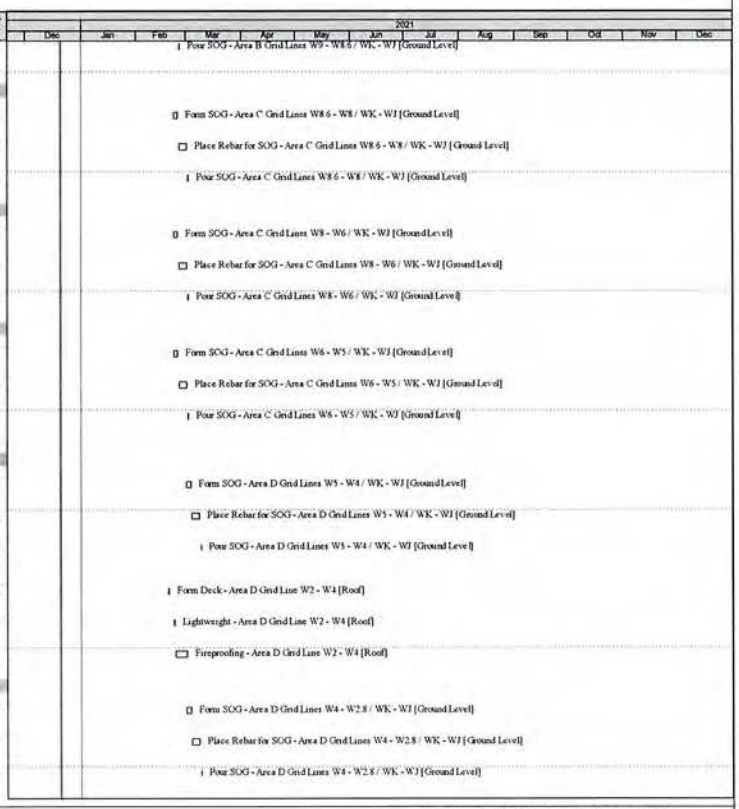
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Concrete Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:19

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-7243	Pour SOG - Area B Grid Lines W9 - W8.6 / WK - WJ [Ground Level]	25-Feb-21	25-Feb-21	1	1
Area C - Grid Lines WK, WJ, WI					
W8.6 - W8					
Ground Level					
WE2-7255	Form SOG - Area C Grid Lines W8.6 - W8 / WK - WJ [Ground Level]	22-Feb-21	24-Feb-21	3	3
WE2-7257	Place Rebar for SOG - Area C Grid Lines W8.6 - W8 / WK - WJ [Ground Level]	25-Feb-21	01-Mar-21	3	3
WE2-7259	Pour SOG - Area C Grid Lines W8.6 - W8 / WK - WJ [Ground Level]	02-Mar-21	02-Mar-21	1	1
W8 - W6					
Ground Level					
WE2-7271	Form SOG - Area C Grid Lines W8 - W6 / WK - WJ [Ground Level]	22-Feb-21	24-Feb-21	3	3
WE2-7273	Place Rebar for SOG - Area C Grid Lines W8 - W6 / WK - WJ [Ground Level]	25-Feb-21	01-Mar-21	3	3
WE2-7275	Pour SOG - Area C Grid Lines W8 - W6 / WK - WJ [Ground Level]	02-Mar-21	02-Mar-21	1	1
W6 - W5					
Ground Level					
WE2-7287	Form SOG - Area C Grid Lines W6 - W5 / WK - WJ [Ground Level]	22-Feb-21	24-Feb-21	3	3
WE2-7289	Place Rebar for SOG - Area C Grid Lines W6 - W5 / WK - WJ [Ground Level]	25-Feb-21	01-Mar-21	3	3
WE2-7291	Pour SOG - Area C Grid Lines W6 - W5 / WK - WJ [Ground Level]	02-Mar-21	02-Mar-21	1	1
Area D - Grid Lines WK, WJ, WI					
W5 - W4					
Ground Level					
WE2-7303	Form SOG - Area D Grid Lines W5 - W4 / WK - WJ [Ground Level]	01-Mar-21	03-Mar-21	3	3
WE2-7305	Place Rebar for SOG - Area D Grid Lines W5 - W4 / WK - WJ [Ground Level]	04-Mar-21	08-Mar-21	3	3
WE2-7307	Pour SOG - Area D Grid Lines W5 - W4 / WK - WJ [Ground Level]	09-Mar-21	09-Mar-21	1	1
W4.2 - W4 (Low Roof)					
WE2-3236	Form Deck - Area D Grid Line W2 - W4 [Roof]	19-Feb-21	19-Feb-21	1	1
WE2-3239	Lightweight - Area D Grid Line W2 - W4 [Roof]	22-Feb-21	22-Feb-21	1	1
WE2-3249	Fireproofing - Area D Grid Line W2 - W4 [Roof]	23-Feb-21	01-Mar-21	5	5
W4 - W2.8					
Ground Level					
WE2-7319	Form SOG - Area D Grid Lines W4 - W2.8 / WK - WJ [Ground Level]	01-Mar-21	03-Mar-21	3	3
WE2-7321	Place Rebar for SOG - Area D Grid Lines W4 - W2.8 / WK - WJ [Ground Level]	04-Mar-21	08-Mar-21	3	3
WE2-7323	Pour SOG - Area D Grid Lines W4 - W2.8 / WK - WJ [Ground Level]	09-Mar-21	09-Mar-21	1	1



Balfour Beatty

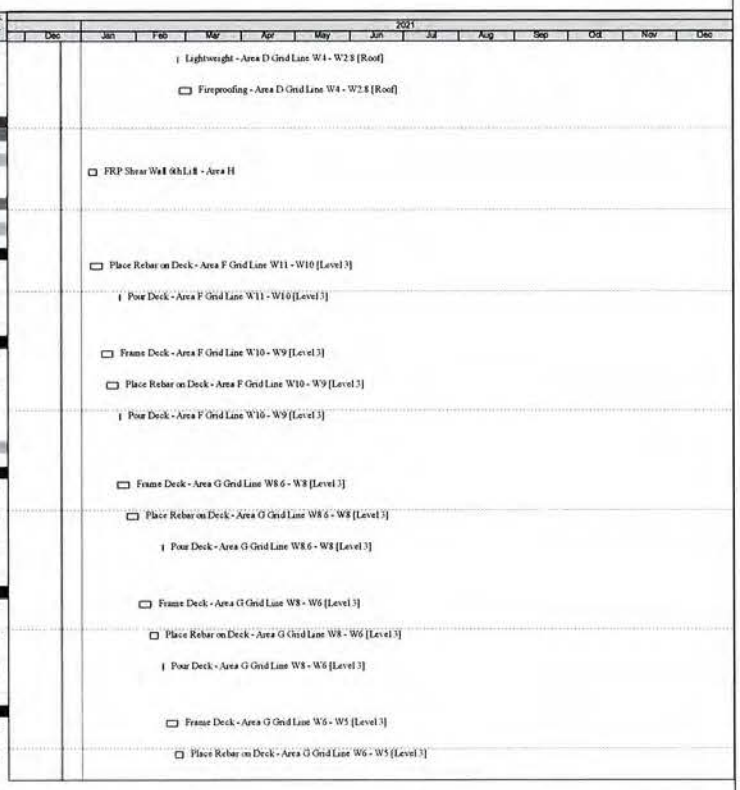
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Concrete Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:19

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Low Roof					
WE2-14162	Lightweight - Area D Grid Line W4 - W2.8 [Roof]	24-Feb-21	24-Feb-21	1	1
WE2-14172	Fireproofing - Area D Grid Line W4 - W2.8 [Roof]	25-Feb-21	03-Mar-21	5	5
Construction					
Foundation					
Existing Area (E+F+G+H) - Grid Lines W9 - WF					
Area H - W9 - WF					
WE2-43171	FRP Shear Wall 6th Lift - Area H	05-Jan-21	09-Jan-21	5	5
Structure					
Existing Area (E+F+G+H) - Grid Lines W9 - WF					
Area F - W9 - WF					
W11 - W10					
Level 3					
WE2-48921	Place Rebar on Deck - Area F Grid Line W11 - W10 [Level 3]	06-Jan-21	12-Jan-21	5	5
WE2-48311	Pour Deck - Area F Grid Line W11 - W10 [Level 3]	22-Jan-21	22-Jan-21	1	1
W10 - W9					
Level 3					
WE2-48941	Frame Deck - Area F Grid Line W10 - W9 [Level 3]	12-Jan-21	18-Jan-21	5	5
WE2-48951	Place Rebar on Deck - Area F Grid Line W10 - W9 [Level 3]	15-Jan-21	21-Jan-21	5	5
WE2-48351	Pour Deck - Area F Grid Line W10 - W9 [Level 3]	22-Jan-21	22-Jan-21	1	1
Area G - W9 - WF					
W9 - W8					
Level 3					
WE2-49121	Frame Deck - Area G Grid Line W8.6 - W8 [Level 3]	21-Jan-21	27-Jan-21	5	5
WE2-49131	Place Rebar on Deck - Area G Grid Line W8.6 - W8 [Level 3]	26-Jan-21	01-Feb-21	5	5
WE2-48531	Pour Deck - Area G Grid Line W8.6 - W8 [Level 3]	15-Feb-21	15-Feb-21	1	1
W8 - W6					
Level 3					
WE2-49151	Frame Deck - Area G Grid Line W8 - W6 [Level 3]	02-Feb-21	08-Feb-21	5	5
WE2-49161	Place Rebar on Deck - Area G Grid Line W8 - W6 [Level 3]	08-Feb-21	12-Feb-21	5	5
WE2-48571	Pour Deck - Area G Grid Line W8 - W6 [Level 3]	15-Feb-21	15-Feb-21	1	1
W6 - W5					
Level 3					
WE2-49181	Frame Deck - Area G Grid Line W6 - W5 [Level 3]	17-Feb-21	23-Feb-21	5	5
WE2-49191	Place Rebar on Deck - Area G Grid Line W6 - W5 [Level 3]	22-Feb-21	26-Feb-21	5	5



Balfour Beatty

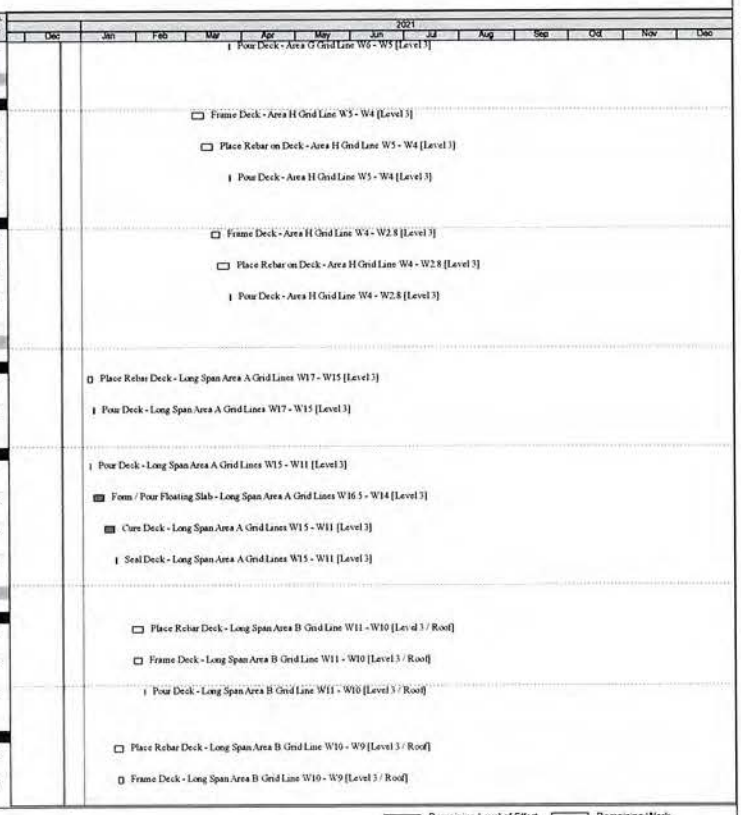
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Concrete Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:19

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-48611	Pour Deck - Area G Grid Line W6 - W5 [Level 3]	25-Mar-21	25-Mar-21	1	1
Area H - W6 - WF					
W5 - W4					
Level 3					
WE2-49211	Frame Deck - Area H Grid Line W5 - W4 [Level 3]	04-Mar-21	10-Mar-21	5	5
WE2-49221	Place Rebar on Deck - Area H Grid Line W5 - W4 [Level 3]	09-Mar-21	15-Mar-21	5	5
WE2-48651	Pour Deck - Area H Grid Line W5 - W4 [Level 3]	25-Mar-21	25-Mar-21	1	1
W4 - W2.8					
Level 3					
WE2-49241	Frame Deck - Area H Grid Line W4 - W2.8 [Level 3]	15-Mar-21	19-Mar-21	5	5
WE2-49251	Place Rebar on Deck - Area H Grid Line W4 - W2.8 [Level 3]	18-Mar-21	24-Mar-21	5	5
WE2-48691	Pour Deck - Area H Grid Line W4 - W2.8 [Level 3]	25-Mar-21	25-Mar-21	1	1
Exhibition Hall - Long Span					
Area A - W6 - WH					
W17 - W15					
Level 3					
WE2-47123	Place Rebar Deck - Long Span Area A Grid Lines W17 - W15 [Level 3]	04-Jan-21	06-Jan-21	3	3
WE2-47127	Pour Deck - Long Span Area A Grid Lines W17 - W15 [Level 3]	07-Jan-21	07-Jan-21	1	1
W15 - W11					
Level 3					
WE2-4520	Pour Deck - Long Span Area A Grid Lines W15 - W11 [Level 3]	05-Jan-21	05-Jan-21	1	1
WE2-4525	Form / Pour Floating Slab - Long Span Area A Grid Lines W16.5 - W14 [Level 3]	07-Jan-21	12-Jan-21	5	5
WE2-4530	Cure Deck - Long Span Area A Grid Lines W15 - W11 [Level 3]	13-Jan-21	18-Jan-21	6	6
WE2-4531	Seal Deck - Long Span Area A Grid Lines W15 - W11 [Level 3]	19-Jan-21	19-Jan-21	1	1
Area B - W6 - WH					
W11 - W10					
Level 3 (Roof)					
WE2-48861	Place Rebar Deck - Long Span Area B Grid Line W11 - W10 [Level 3 / Roof]	28-Jan-21	03-Feb-21	5	5
WE2-48851	Frame Deck - Long Span Area B Grid Line W11 - W10 [Level 3 / Roof]	29-Jan-21	02-Feb-21	3	3
WE2-4600	Pour Deck - Long Span Area B Grid Line W11 - W10 [Level 3 / Roof]	04-Feb-21	04-Feb-21	1	1
W10 - W9					
Level 3 (Roof)					
WE2-48891	Place Rebar Deck - Long Span Area B Grid Line W10 - W9 [Level 3 / Roof]	18-Jan-21	22-Jan-21	5	5
WE2-48881	Frame Deck - Long Span Area B Grid Line W10 - W9 [Level 3 / Roof]	20-Jan-21	22-Jan-21	3	3



Balfour Beatty

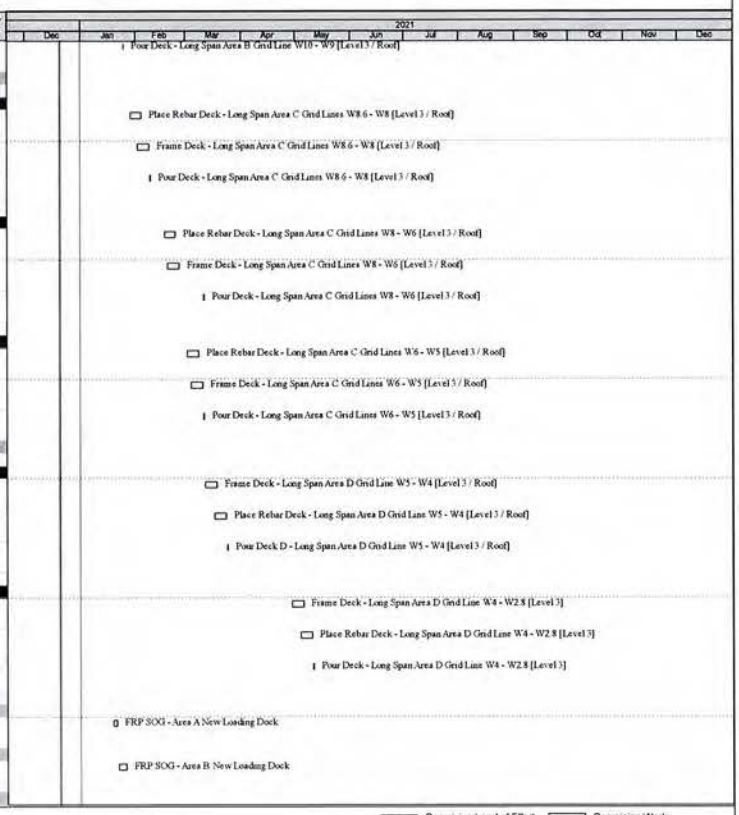
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Concrete Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:19

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-42881	Pour Deck - Long Span Area B Grid Line W10 - W9 [Level 3 / Roof]	25-Jan-21	25-Jan-21	1	1
Area C - W8 - W4					
W9 - W8					
Level 3 (Roof)					
WE2-49041	Place Rebar Deck - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	29-Jan-21	04-Feb-21	5	5
WE2-49031	Frame Deck - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	02-Feb-21	08-Feb-21	5	5
WE2-4680	Pour Deck - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	09-Feb-21	09-Feb-21	1	1
W8 - W6					
Level 3 (Roof)					
WE2-49071	Place Rebar Deck - Long Span Area C Grid Lines W8 - W6 [Level 3 / Roof]	17-Feb-21	23-Feb-21	5	5
WE2-49061	Frame Deck - Long Span Area C Grid Lines W8 - W6 [Level 3 / Roof]	19-Feb-21	25-Feb-21	5	5
WE2-42941	Pour Deck - Long Span Area C Grid Lines W8 - W6 [Level 3 / Roof]	11-Mar-21	11-Mar-21	1	1
W6 - W5					
Level 3 (Roof)					
WE2-49101	Place Rebar Deck - Long Span Area C Grid Lines W6 - W5 [Level 3 / Roof]	02-Mar-21	08-Mar-21	5	5
WE2-49091	Frame Deck - Long Span Area C Grid Lines W6 - W5 [Level 3 / Roof]	04-Mar-21	10-Mar-21	5	5
WE2-42971	Pour Deck - Long Span Area C Grid Lines W6 - W5 [Level 3 / Roof]	11-Mar-21	11-Mar-21	1	1
Area D - W8 - W4					
W5 - W4					
Level 3 (Roof)					
WE2-49271	Frame Deck - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	12-Mar-21	18-Mar-21	5	5
WE2-49281	Place Rebar Deck - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	17-Mar-21	23-Mar-21	5	5
WE2-4780	Pour Deck D - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	24-Mar-21	24-Mar-21	1	1
W4 - W2.8					
Level 3					
WE2-49301	Frame Deck - Long Span Area D Grid Line W4 - W2.8 [Level 3]	29-Apr-21	05-May-21	5	5
WE2-49311	Place Rebar Deck - Long Span Area D Grid Line W4 - W2.8 [Level 3]	04-May-21	10-May-21	5	5
WE2-4840	Pour Deck - Long Span Area D Grid Line W4 - W2.8 [Level 3]	11-May-21	11-May-21	1	1
New Loading Dock					
Area A					
WE2-46791	FRP SOG - Area A New Loading Dock	19-Jan-21	21-Jan-21	3	3
Area B					
WE2-47311	FRP SOG - Area B New Loading Dock	22-Jan-21	26-Jan-21	3	3
Area C					



Balfour Beatty

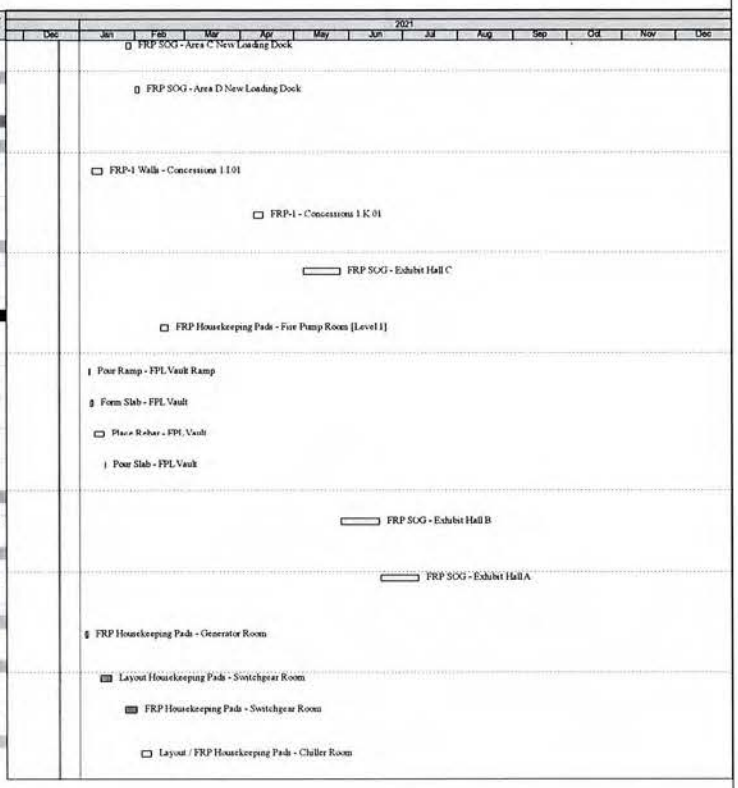
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Concrete Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:19

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-47471	FRP SOG - Area C New Loading Dock	27-Jan-21	29-Jan-21	3	3
Area D					
WE2-47631	FRP SOG - Area D New Loading Dock	01-Feb-21	03-Feb-21	3	3
Interiors & Systems					
Exhibit Halls (A+B+C)					
Existing Convention / Exhibit Spaces					
Concessions 1.I.01					
WE2-45281	FRP-1 Walls - Concessions 1.I.01	08-Jan-21	13-Jan-21	4	4
Concessions 1.K.02					
WE2-45901	FRP-1 - Concessions 1.K.01	08-Apr-21	13-Apr-21	4	4
Exhibit Hall C					
Exhibit Hall C - Underground & SOG					
WE2-43341	FRP SOG - Exhibit Hall C	06-May-21	26-May-21	15	15
Exhibit Hall C - Interior Build-out					
Fire Pump Room 1A08					
WE2-4811	FRP Housekeeping Pads - Fire Pump Room [Level 1]	15-Feb-21	19-Feb-21	5	5
FPL Vault 1A06					
WE2-7627	Pour Ramp - FPL Vault Ramp	06-Jan-21	06-Jan-21	1	1
WE2-7359	Form Slab - FPL Vault	07-Jan-21	08-Jan-21	2	2
WE2-7361	Place Rebar - FPL Vault	09-Jan-21	14-Jan-21	5	5
WE2-7363	Pour Slab - FPL Vault	15-Jan-21	15-Jan-21	1	1
Exhibit Hall B					
Exhibit Hall B - Underground & SOG					
WE2-7385	FRP SOG - Exhibit Hall B	27-May-21	17-Jun-21	15	15
Exhibit Hall A					
Exhibit Hall A - Underground & SOG					
WE2-7407	FRP SOG - Exhibit Hall A	18-Jun-21	09-Jul-21	15	15
CEP					
Generator Room (3.A.10)					
WE2-5255	FRP Housekeeping Pads - Generator Room	04-Jan-21	05-Jan-21	2	2
Switchgear Room (1.A.09) (3.A.01) (3.A.11)					
WE2-5425	Layout Housekeeping Pads - Switchgear Room	12-Jan-21	18-Jan-21	5	5
WE2-5445	FRP Housekeeping Pads - Switchgear Room	26-Jan-21	01-Feb-21	5	5
Chiller Room					
WE2-5135	Layout / FRP Housekeeping Pads - Chiller Room	04-Feb-21	09-Feb-21	5	5



Balfour Beatty

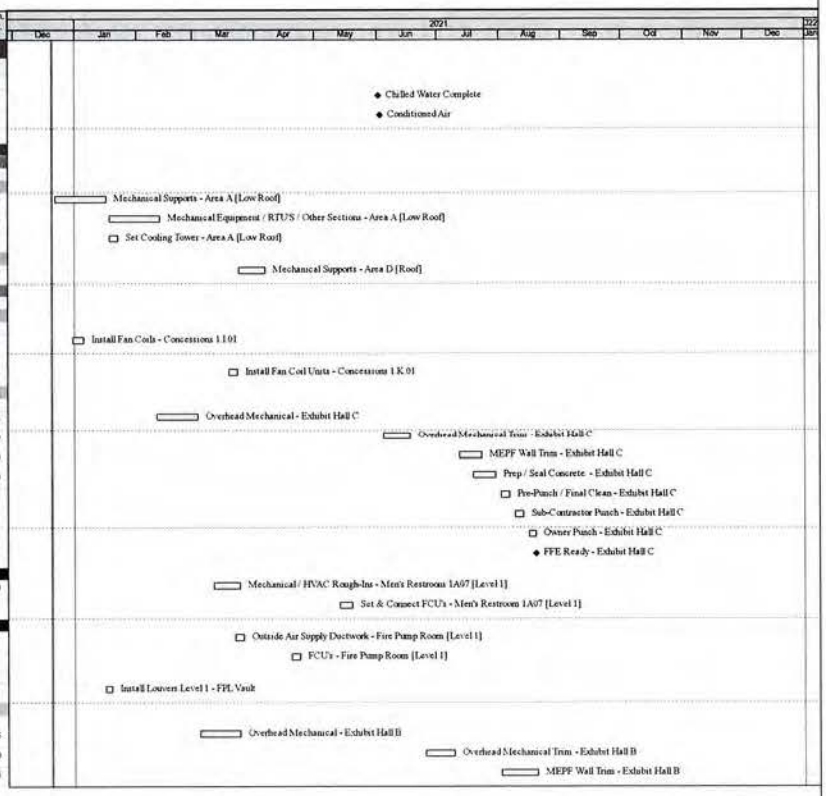
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Mechanical 2021 Work

Data Date: 20-Dec-20
Print Date: 09-Dec-20 17:21

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Broward County Convention Center - West Expansion					
West Expansion					
West Expansion Construction Milestones					
PM-150	Chilled Water Complete		01-Jun-21	0	0
PM-170	Conditioned Air		02-Jun-21	0	0
GMP No. 2 - West Expansion					
Construction					
Building Envelope					
Roof					
Area A - Low Roof					
WE2-5580	Mechanical Supports - Area A [Low Roof]	22-Dec-20	16-Jan-21	20	20
WE2-5540	Mechanical Equipment / RTUS / Other Sections - Area A [Low Roof]	18-Jan-21	12-Feb-21	20	20
WE2-5585	Set Cooling Tower - Area A [Low Roof]	18-Jan-21	22-Jan-21	5	5
Area D					
WE2-6020	Mechanical Supports - Area D [Roof]	24-Mar-21	06-Apr-21	10	10
Interiors & Systems					
Exhibit Halls (A+B+C)					
Existing Convention / Exhibit Spaces					
Concessions 1.L01					
WE2-45131	Install Fan Coils - Concessions 1.L01	31-Dec-20	05-Jan-21	3	3
Concessions 1.K.02					
WE2-45741	Install Fan Coil Units - Concessions 1.K.01	19-Mar-21	23-Mar-21	3	3
Exhibit Hall C					
Exhibit Hall C - Interior Build-out					
WE2-6420	Overhead Mechanical - Exhibit Hall C	11-Feb-21	03-Mar-21	15	15
WE2-6600	Overhead Mechanical Trim - Exhibit Hall C	04-Jun-21	17-Jun-21	10	10
WE2-6780	MEPF Wall Trim - Exhibit Hall C	12-Jul-21	23-Jul-21	10	10
WE2-6861	Prep / Seal Concrete - Exhibit Hall C	19-Jul-21	30-Jul-21	10	10
WE2-6863	Pre-Punch / Final Clean - Exhibit Hall C	02-Aug-21	06-Aug-21	5	5
WE2-6865	Sub-Contractor Punch - Exhibit Hall C	09-Aug-21	13-Aug-21	5	5
WE2-6867	Owner Punch - Exhibit Hall C	16-Aug-21	19-Aug-21	4	4
WE2-6869	FFE Ready - Exhibit Hall C		19-Aug-21	0	0
Men's Restroom 1A07					
WE2-13370	Mechanical / HVAC Rough-Ins - Men's Restroom 1A07 [Level 1]	11-Mar-21	24-Mar-21	10	10
WE2-13450	Set & Connect FCU's - Men's Restroom 1A07 [Level 1]	13-May-21	19-May-21	5	5
Fire Pump Room 1A08					
WE2-4901	Outside Air Supply Ductwork - Fire Pump Room [Level 1]	22-Mar-21	26-Mar-21	5	5
WE2-4931	FCU's - Fire Pump Room [Level 1]	19-Apr-21	23-Apr-21	5	5
FPL Vault 1A06					
WE2-7155	Install Louvers Level 1 - FPL Vault	16-Jan-21	19-Jan-21	3	3
Exhibit Hall B					
Exhibit Hall B - Interior Build-out					
WE2-6960	Overhead Mechanical - Exhibit Hall B	04-Mar-21	24-Mar-21	15	15
WE2-7070	Overhead Mechanical Trim - Exhibit Hall B	25-Jun-21	09-Jul-21	10	10
WE2-7100	MEPF Wall Trim - Exhibit Hall B	02-Aug-21	20-Aug-21	15	15



Balfour Beatty

MATTHEWS SOUTHWEST

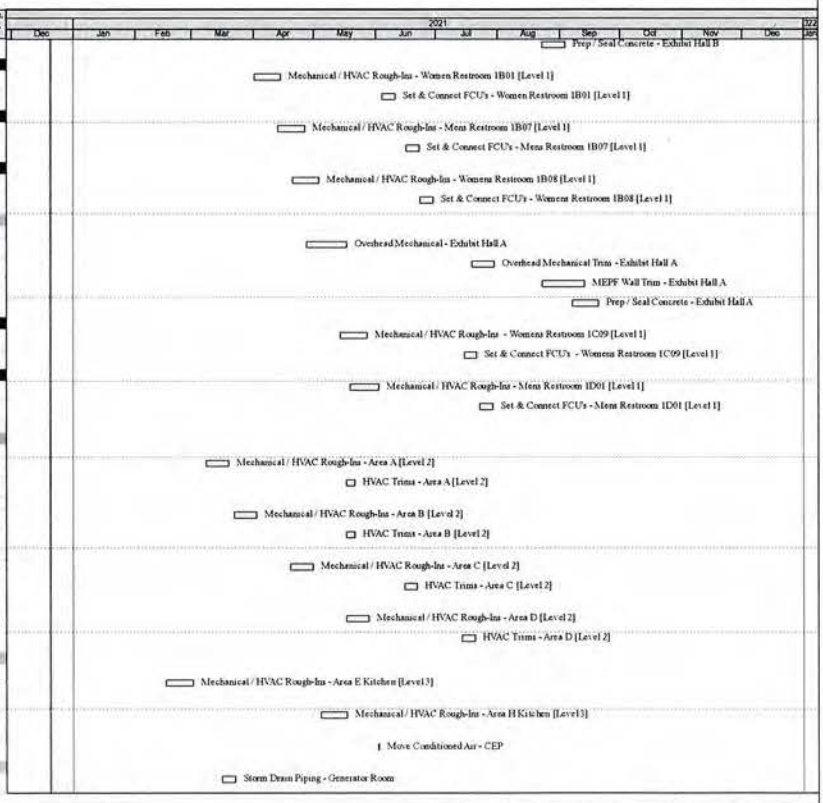
Page 1 of 3

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Mechanical 2021 Work

Data Date: 20-Dec-20
Print Date: 09-Dec-20 17:21

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-7120	Prep / Seal Concrete - Exhibit Hall B	23-Aug-21	03-Sep-21	10	10
Women' Restroom 1B01					
WE2-12120	Mechanical / HVAC Rough-Ins - Women Restroom 1B01 [Level 1]	01-Apr-21	14-Apr-21	10	10
WE2-12210	Set & Connect FCU's - Women Restroom 1B01 [Level 1]	04-Jun-21	10-Jun-21	5	5
Mens Restroom 1B07					
WE2-12470	Mechanical / HVAC Rough-Ins - Mens Restroom 1B07 [Level 1]	13-Apr-21	26-Apr-21	10	10
WE2-12550	Set & Connect FCU's - Mens Restroom 1B07 [Level 1]	16-Jun-21	22-Jun-21	5	5
Womens Restroom 1B08					
WE2-12770	Mechanical / HVAC Rough-Ins - Womens Restroom 1B08 [Level 1]	20-Apr-21	03-May-21	10	10
WE2-12850	Set & Connect FCU's - Womens Restroom 1B08 [Level 1]	23-Jun-21	29-Jun-21	5	5
Exhibit Hall A					
Exhibit Hall A - Interior Build-out					
WE2-7437	Overhead Mechanical - Exhibit Hall A	27-Apr-21	17-May-21	15	15
WE2-7429	Overhead Mechanical Trim - Exhibit Hall A	19-Jul-21	30-Jul-21	10	10
WE2-7417	MEPF Wall Trim - Exhibit Hall A	23-Aug-21	13-Sep-21	15	15
WE2-7461	Prep / Seal Concrete - Exhibit Hall A	07-Sep-21	20-Sep-21	10	10
Womens Restroom 1C09					
WE2-13070	Mechanical / HVAC Rough-Ins - Womens Restroom 1C09 [Level 1]	14-May-21	27-May-21	10	10
WE2-13150	Set & Connect FCU's - Womens Restroom 1C09 [Level 1]	15-Jul-21	21-Jul-21	5	5
Mens Restroom 1D01					
WE2-13670	Mechanical / HVAC Rough-Ins - Mens Restroom 1D01 [Level 1]	19-May-21	02-Jun-21	10	10
WE2-13750	Set & Connect FCU's - Mens Restroom 1D01 [Level 1]	23-Jul-21	29-Jul-21	5	5
Interiors					
Level 2					
Area A					
WE2-10910	Mechanical / HVAC Rough-Ins - Area A [Level 2]	08-Mar-21	19-Mar-21	10	10
WE2-11210	HVAC Trims - Area A [Level 2]	17-May-21	21-May-21	5	5
Area B					
WE2-11280	Mechanical / HVAC Rough-Ins - Area B [Level 2]	22-Mar-21	02-Apr-21	10	10
WE2-11360	HVAC Trims - Area B [Level 2]	17-May-21	21-May-21	5	5
Area C					
WE2-11560	Mechanical / HVAC Rough-Ins - Area C [Level 2]	19-Apr-21	30-Apr-21	10	10
WE2-11640	HVAC Trims - Area C [Level 2]	15-Jun-21	21-Jun-21	5	5
Area D					
WE2-11840	Mechanical / HVAC Rough-Ins - Area D [Level 2]	17-May-21	28-May-21	10	10
WE2-11920	HVAC Trims - Area D [Level 2]	14-Jul-21	20-Jul-21	5	5
Level 3					
Area E - Kitchen					
WE2-47931	Mechanical / HVAC Rough-Ins - Area E Kitchen [Level 3]	16-Feb-21	01-Mar-21	10	10
Area H - Kitchen					
WE2-49961	Mechanical / HVAC Rough-Ins - Area H Kitchen [Level 3]	04-May-21	17-May-21	10	10
CEP					
WE2-8480	Move Conditioned Air - CEP	02-Jun-21	02-Jun-21	1	1
Generator Room (3.A.10)					
WE2-5365	Storm Drain Piping - Generator Room	16-Mar-21	22-Mar-21	5	5



Balfour Beatty

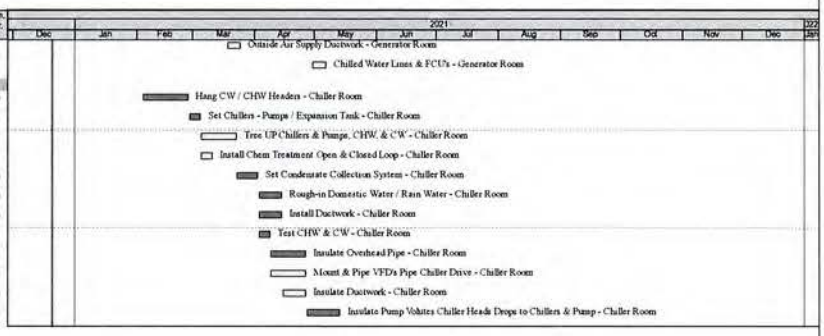
MATTHEWS SOUTHWEST

Remaining Level of Effort
Remaining Work
Actual Level of Effort
Critical Remaining Work
Actual Work
Milestone

BCCCH - Mechanical 2021 Work

Data Date: 20-Dec-20
Print Date: 09-Dec-20 17:21

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-5355	Outside Air Supply Ductwork - Generator Room	18-Mar-21	24-Mar-21	5	5
WE2-5415	Chilled Water Lines & FCU's - Generator Room	30-Apr-21	06-May-21	5	5
Chiller Room					
WE2-5045	Hang CW / CHW Headers - Chiller Room	04-Feb-21	26-Feb-21	20	20
WE2-5155	Set Chillers - Pumps / Expansion Tank - Chiller Room	27-Feb-21	04-Mar-21	5	5
WE2-5165	Tree UP Chillers & Pumps, CHW, & CW - Chiller Room	05-Mar-21	22-Mar-21	15	15
WE2-5145	Install Chem Treatment Open & Closed Loop - Chiller Room	05-Mar-21	10-Mar-21	5	5
WE2-5625	Set Condensate Collection System - Chiller Room	23-Mar-21	02-Apr-21	10	10
WE2-5075	Rough-in Domestic Water / Rain Water - Chiller Room	03-Apr-21	14-Apr-21	10	10
WE2-5115	Install Ductwork - Chiller Room	03-Apr-21	14-Apr-21	10	10
WE2-5175	Test CHW & CW - Chiller Room	03-Apr-21	08-Apr-21	5	5
WE2-5185	Insulate Overhead Pipe - Chiller Room	09-Apr-21	26-Apr-21	15	15
WE2-5195	Mount & Pipe VFD's Pipe Chiller Drive - Chiller Room	09-Apr-21	26-Apr-21	15	15
WE2-7465	Insulate Ductwork - Chiller Room	15-Apr-21	26-Apr-21	10	10
WE2-5205	Insulate Pump Volutes Chiller Heads Drops to Chillers & Pump - Chiller Room	27-Apr-21	13-May-21	15	15



Balfour Beatty

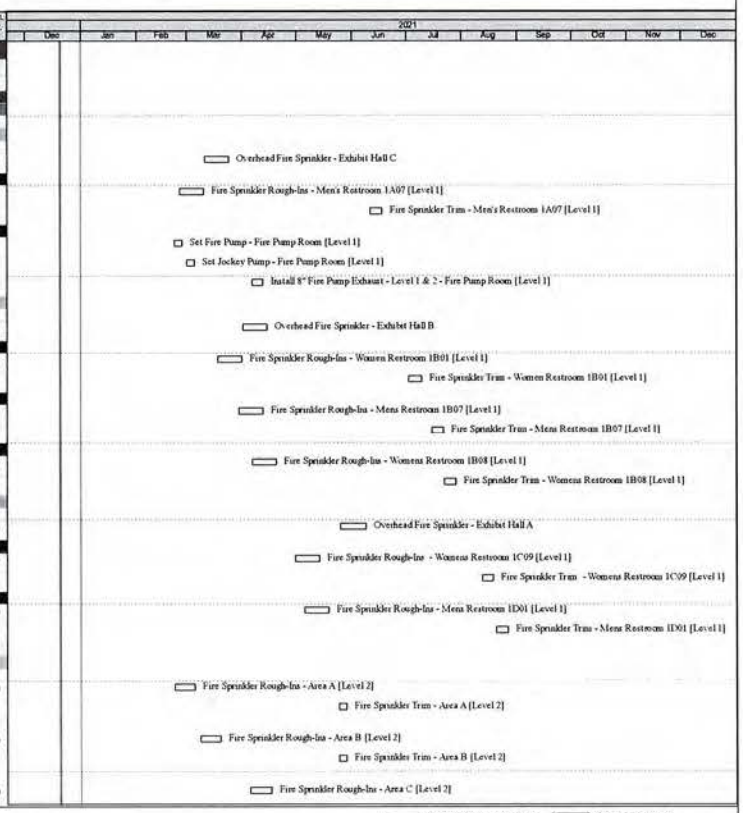
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Fire Protection Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:33

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Broward County Convention Center - West Expansion					
West Expansion					
GMP No. 2 - West Expansion					
Construction					
Interiors & Systems					
Exhibit Halls (A+B+C)					
Exhibit Hall C					
Exhibit Hall C - Interior Build-out					
WE2-6440	Overhead Fire Sprinkler - Exhibit Hall C	11-Mar-21	24-Mar-21	10	10
Men's Restroom 1A07					
WE2-13350	Fire Sprinkler Rough-Ins - Men's Restroom 1A07 [Level 1]	25-Feb-21	10-Mar-21	10	10
WE2-13580	Fire Sprinkler Trim - Men's Restroom 1A07 [Level 1]	11-Jun-21	17-Jun-21	5	5
Fire Pump Room 1A08					
WE2-4841	Set Fire Pump - Fire Pump Room [Level 1]	22-Feb-21	26-Feb-21	5	5
WE2-4802	Set Jockey Pump - Fire Pump Room [Level 1]	01-Mar-21	05-Mar-21	5	5
WE2-4921	Install 8" Fire Pump Exhaust - Level 1 & 2 - Fire Pump Room [Level 1]	06-Apr-21	12-Apr-21	5	5
Exhibit Hall B					
Exhibit Hall B - Interior Build-out					
WE2-6990	Overhead Fire Sprinkler - Exhibit Hall B	01-Apr-21	14-Apr-21	10	10
Women Restroom 1B01					
WE2-12100	Fire Sprinkler Rough-Ins - Women Restroom 1B01 [Level 1]	18-Mar-21	31-Mar-21	10	10
WE2-12290	Fire Sprinkler Trim - Women Restroom 1B01 [Level 1]	02-Jul-21	09-Jul-21	5	5
Mens Restroom 1B07					
WE2-12450	Fire Sprinkler Rough-Ins - Mens Restroom 1B07 [Level 1]	30-Mar-21	12-Apr-21	10	10
WE2-12630	Fire Sprinkler Trim - Mens Restroom 1B07 [Level 1]	15-Jul-21	21-Jul-21	5	5
Womens Restroom 1B08					
WE2-12750	Fire Sprinkler Rough-Ins - Womens Restroom 1B08 [Level 1]	06-Apr-21	19-Apr-21	10	10
WE2-12930	Fire Sprinkler Trim - Womens Restroom 1B08 [Level 1]	22-Jul-21	28-Jul-21	5	5
Exhibit Hall A					
Exhibit Hall A - Interior Build-out					
WE2-7459	Overhead Fire Sprinkler - Exhibit Hall A	25-May-21	08-Jun-21	10	10
Womens Restroom 1C09					
WE2-13050	Fire Sprinkler Rough-Ins - Womens Restroom 1C09 [Level 1]	30-Apr-21	13-May-21	10	10
WE2-13280	Fire Sprinkler Trim - Womens Restroom 1C09 [Level 1]	12-Aug-21	18-Aug-21	5	5
Mens Restroom 1D01					
WE2-13650	Fire Sprinkler Rough-Ins - Mens Restroom 1D01 [Level 1]	05-May-21	18-May-21	10	10
WE2-13880	Fire Sprinkler Trim - Mens Restroom 1D01 [Level 1]	20-Aug-21	26-Aug-21	5	5
Interiors					
Level 2					
Area A					
WE2-10890	Fire Sprinkler Rough-Ins - Area A [Level 2]	22-Feb-21	05-Mar-21	10	10
WE2-11080	Fire Sprinkler Trim - Area A [Level 2]	24-May-21	28-May-21	5	5
Area B					
WE2-11260	Fire Sprinkler Rough-Ins - Area B [Level 2]	08-Mar-21	19-Mar-21	10	10
WE2-11380	Fire Sprinkler Trim - Area B [Level 2]	24-May-21	28-May-21	5	5
Area C					
WE2-11540	Fire Sprinkler Rough-Ins - Area C [Level 2]	05-Apr-21	16-Apr-21	10	10



Balfour Beatty

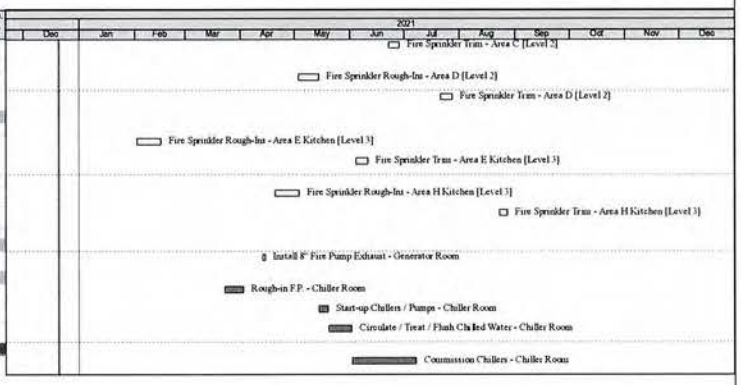
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Fire Protection Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:33

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-11660	Fire Sprinkler Trim - Area C [Level 2]	22-Jun-21	28-Jun-21	5	5
Area D					
WE2-11820	Fire Sprinkler Rough-Ins - Area D [Level 2]	03-May-21	14-May-21	10	10
WE2-11940	Fire Sprinkler Trim - Area D [Level 2]	21-Jul-21	27-Jul-21	5	5
Level 3					
Area E - Kitchen					
WE2-47911	Fire Sprinkler Rough-Ins - Area E Kitchen [Level 3]	02-Feb-21	15-Feb-21	10	10
WE2-48141	Fire Sprinkler Trim - Area E Kitchen [Level 3]	04-Jun-21	10-Jun-21	5	5
Area H - Kitchen					
WE2-49941	Fire Sprinkler Rough-Ins - Area H Kitchen [Level 3]	20-Apr-21	03-May-21	10	10
WE2-7129	Fire Sprinkler Trim - Area H Kitchen [Level 3]	23-Aug-21	27-Aug-21	5	5
CEP					
Generator Room (3.A.10)					
WE2-5405	Install 8" Fire Pump Exhaust - Generator Room	13-Apr-21	14-Apr-21	2	2
Chiller Room					
WE2-5055	Rough-in F.P. - Chiller Room	23-Mar-21	02-Apr-21	10	10
WE2-7467	Start-up Chillers / Pumps - Chiller Room	14-May-21	19-May-21	5	5
WE2-7469	Circulate / Treat / Flush Chilled Water - Chiller Room	20-May-21	01-Jun-21	10	10
Test / Commissioning					
WE2-7471	Commission Chillers - Chiller Room	02-Jun-21	07-Jul-21	25	25



Balfour Beatty

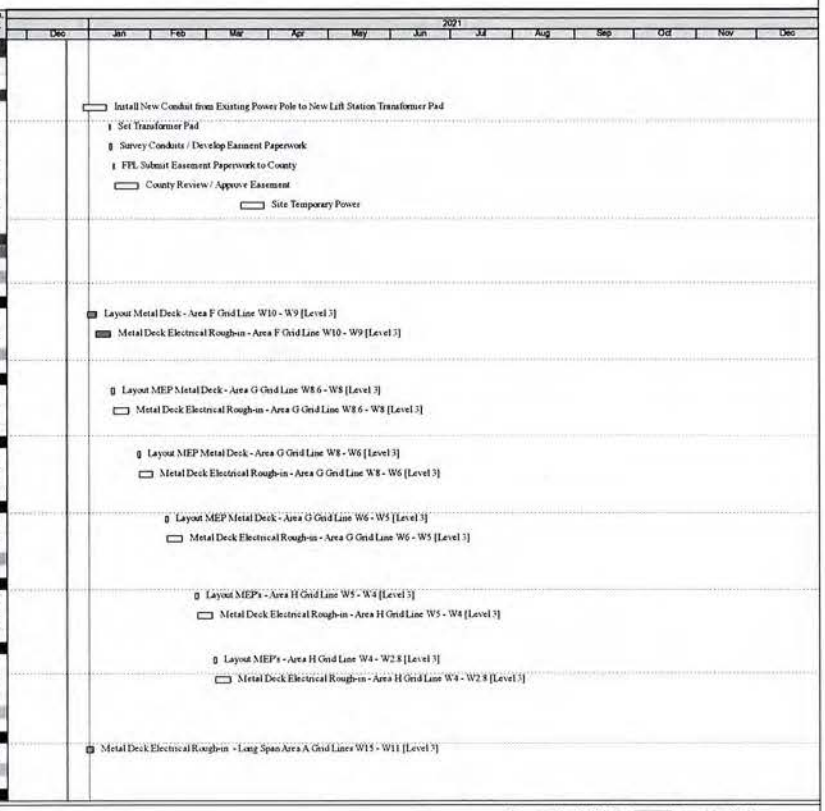
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Electrical 2021 Work

Data Date: 20-Dec-20
Print Date: 09-Dec-20 17:22

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Broward County Convention Center - West Expansion					
West Expansion					
GMP No. 1 - Warehouse Demo & Utility Re-Alignment					
Lift Station					
WE1-785	Install New Conduit from Existing Power Pole to New Lift Station Transformer	29-Dec-20	09-Jan-21	10	10
WE1-875	Set Transformer Pad	11-Jan-21	11-Jan-21	1	1
WE1-1380	Survey Conduits / Develop Easment Paperwork	11-Jan-21	12-Jan-21	2	2
WE1-1390	FPL Submit Easement Paperwork to County	13-Jan-21	13-Jan-21	1	1
WE1-1400	County Review / Approve Easement	14-Jan-21	25-Jan-21	10	10
WE1-955	Site Temporary Power	18-Mar-21	29-Mar-21	10	10
GMP No. 2 - West Expansion					
Construction					
Structure					
Existing Area (E+F+G+H) - Grid Lines W0 - WF					
Area F - W0 - WF					
W10 - W9					
Level 3					
WE2-48931	Layout Metal Deck - Area F Grid Line W10 - W9 [Level 3]	31-Dec-20	04-Jan-21	2	2
WE2-48331	Metal Deck Electrical Rough-in - Area F Grid Line W10 - W9 [Level 3]	04-Jan-21	11-Jan-21	6	6
Area G - W0 - WF					
W9 - W8					
Level 3					
WE2-49111	Layout MEP Metal Deck - Area G Grid Line W8.6 - W8 [Level 3]	12-Jan-21	13-Jan-21	2	2
WE2-48511	Metal Deck Electrical Rough-in - Area G Grid Line W8.6 - W8 [Level 3]	13-Jan-21	20-Jan-21	6	6
W8 - W6					
Level 3					
WE2-49141	Layout MEP Metal Deck - Area G Grid Line W8 - W6 [Level 3]	25-Jan-21	26-Jan-21	2	2
WE2-48551	Metal Deck Electrical Rough-in - Area G Grid Line W8 - W6 [Level 3]	26-Jan-21	01-Feb-21	6	6
W6 - W5					
Level 3					
WE2-49171	Layout MEP Metal Deck - Area G Grid Line W6 - W5 [Level 3]	08-Feb-21	09-Feb-21	2	2
WE2-48591	Metal Deck Electrical Rough-in - Area G Grid Line W6 - W5 [Level 3]	09-Feb-21	16-Feb-21	6	6
Area H - W0 - WF					
W5 - W4					
Level 3					
WE2-49201	Layout MEPs - Area H Grid Line W5 - W4 [Level 3]	23-Feb-21	24-Feb-21	2	2
WE2-48631	Metal Deck Electrical Rough-in - Area H Grid Line W5 - W4 [Level 3]	24-Feb-21	03-Mar-21	6	6
W4 - W2.8					
Level 3					
WE2-49231	Layout MEPs - Area H Grid Line W4 - W2.8 [Level 3]	04-Mar-21	05-Mar-21	2	2
WE2-48671	Metal Deck Electrical Rough-in - Area H Grid Line W4 - W2.8 [Level 3]	05-Mar-21	12-Mar-21	6	6
Exhibition Hall - Long Span					
Area A - W1 - WH					
W15 - W11					
Level 3					
WE2-4500	Metal Deck Electrical Rough-in - Long Span Area A Grid Lines W15 - W11 [Le	30-Dec-20	02-Jan-21	3	3
Area B - W1 - WH					
W11 - W10					
Level 3 (Roof)					



Balfour Beatty

MATTHEWS SOUTHWEST

Page 1 of 6

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Electrical 2021 Work

Data Date: 20-Dec-20
Print Date: 09-Dec-20 17:22

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-48841	Layout MEP Metal Deck - Long Span Area B Grid Line W11 - W10 [Level 3 / R	26-Jan-21	26-Jan-21	1	1
WE2-44441	Metal Deck Electrical Rough-in - Long Span Area B Grid Line W11 - W10 [Lev	27-Jan-21	02-Feb-21	5	5
W10 - W9					
Level 3 (Roof)					
WE2-48871	Layout Metal Deck MEP - Long Span Area B Grid Line W10 - W9 [Level 3 / Ro	13-Jan-21	13-Jan-21	1	1
WE2-44471	Metal Deck Electrical Rough-in - Long Span Area B Grid Line W10 - W9 [Leve	14-Jan-21	20-Jan-21	5	5
Area C - W8 - W4					
W9 - W8					
Level 3 (Roof)					
WE2-49021	Layout MEP Metal Deck - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / F	26-Jan-21	26-Jan-21	1	1
WE2-44531	Metal Deck Electrical Rough-in - Long Span Area C Grid Lines W8.6 - W8 [Lev	27-Jan-21	02-Feb-21	5	5
W8 - W6					
Level 3 (Roof)					
WE2-49051	Layout MEP Metal Deck - Long Span Area C Grid Lines W8 - W6 [Level 3 / Ro	11-Feb-21	11-Feb-21	1	1
WE2-44561	Metal Deck Electrical Rough-in - Long Span Area C Grid Lines W8 - W6 [Leve	12-Feb-21	19-Feb-21	6	6
W6 - W5					
Level 3 (Roof)					
WE2-49081	Layout MEP Metal Deck - Long Span Area C Grid Lines W6 - W5 [Level 3 / Ro	24-Feb-21	24-Feb-21	1	1
WE2-44591	Metal Deck Electrical Rough-in - Long Span Area C Grid Lines W6 - W5 [Leve	25-Feb-21	04-Mar-21	6	6
Area D - W8 - W4					
W5 - W4					
Level 3 (Roof)					
WE2-49261	Layout MEPs - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	03-Mar-21	04-Mar-21	2	2
WE2-44621	Metal Deck Electrical Rough-in - Long Span Area D Grid Line W5 - W4 [Level	04-Mar-21	11-Mar-21	6	6
W4 - W2.8					
Level 3					
WE2-49291	Layout MEPs - Long Span Area D Grid Line W4 - W2.8 [Level 3]	20-Apr-21	21-Apr-21	2	2
WE2-44651	Metal Deck Electrical Rough-in - Long Span Area D Grid Line W4 - W2.8 [Lev	21-Apr-21	28-Apr-21	6	6
Building Envelope					
Roof					
Area A - Low Roof					
WE2-5680	Electrical To Equipment - Area A [Low Roof]	15-Feb-21	12-Mar-21	20	20
WE2-5700	Lightning Protection - Area A [Low Roof]	25-Feb-21	24-Mar-21	20	20
Area B					
WE2-5820	Electrical To Equipment - Area B [Roof]	21-Apr-21	11-May-21	15	15
WE2-5840	Lightning Protection - Area B [Roof]	21-Apr-21	11-May-21	15	15
Area C					
WE2-6200	Electrical To Equipment - Area C [Roof]	12-May-21	02-Jun-21	15	15
WE2-6220	Lightning Protection - Area C [Roof]	12-May-21	02-Jun-21	15	15
Area D					
WE2-6240	Electrical To Equipment - Area D [Roof]	03-Jun-21	23-Jun-21	15	15
WE2-6260	Lightning Protection - Area D [Roof]	03-Jun-21	23-Jun-21	15	15
Interiors & Systems					
Exhibit Halls (A+B+C)					
Existing Convention / Exhibit Spaces					
Concessions 1.J.01					
WE2-45391	Test Fire Alarm - Concessions 1 J.01	30-Apr-21	06-May-21	5	5
Concessions 1.K.02					

Balfour Beatty

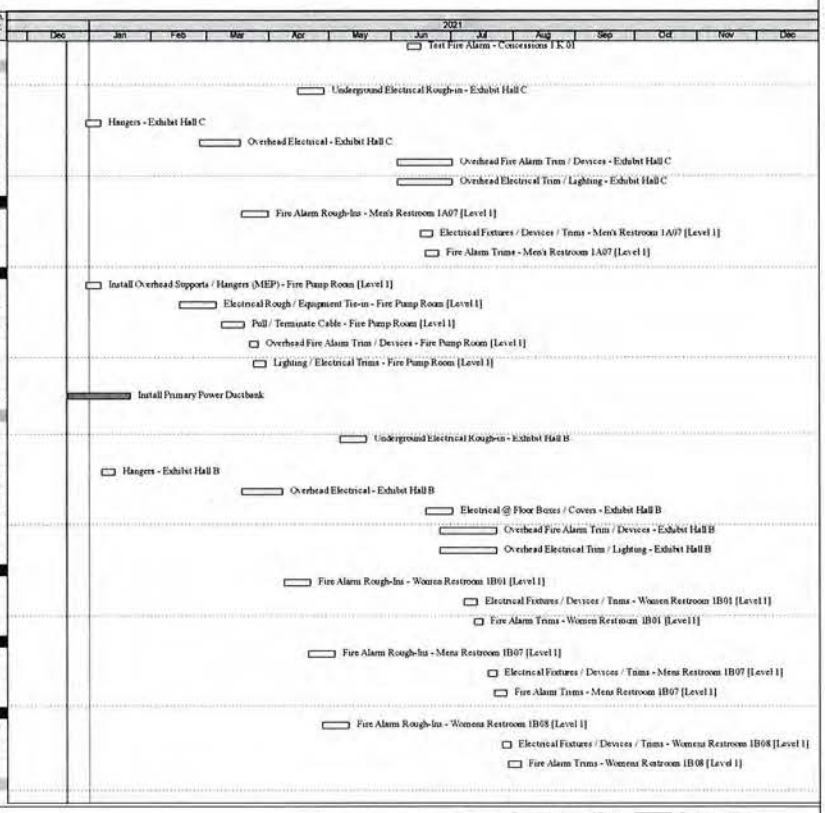
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Electrical 2021 Work

Data Date: 20-Dec-20
Print Date: 09-Dec-20 17:22

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-46001	Test Fire Alarm - Concessions 1K 01	09-Jun-21	15-Jun-21	5	5
Exhibit Hall C					
Exhibit Hall C - Underground & SOG					
WE2-43311	Underground Electrical Rough-in - Exhibit Hall C	15-Apr-21	28-Apr-21	10	10
Exhibit Hall C - Interior Build-out					
WE2-6280	Hangers - Exhibit Hall C	30-Dec-20	06-Jan-21	5	5
WE2-6500	Overhead Electrical - Exhibit Hall C	25-Feb-21	17-Mar-21	15	15
WE2-6540	Overhead Fire Alarm Trim / Devices - Exhibit Hall C	04-Jun-21	01-Jul-21	20	20
WE2-6560	Overhead Electrical Trim / Lighting - Exhibit Hall C	04-Jun-21	01-Jul-21	20	20
Men's Restroom 1A07					
WE2-13380	Fire Alarm Rough-Ins - Men's Restroom 1A07 [Level 1]	18-Mar-21	31-Mar-21	10	10
WE2-13590	Electrical Fixtures / Devices / Trims - Men's Restroom 1A07 [Level 1]	15-Jun-21	21-Jun-21	5	5
WE2-13600	Fire Alarm Trims - Men's Restroom 1A07 [Level 1]	18-Jun-21	24-Jun-21	5	5
Fire Pump Room 1A08					
WE2-4821	Install Overhead Supports / Hangers (MEP) - Fire Pump Room [Level 1]	30-Dec-20	06-Jan-21	5	5
WE2-4831	Electrical Rough / Equipment Tie-in - Fire Pump Room [Level 1]	15-Feb-21	05-Mar-21	15	15
WE2-4851	Pull / Terminate Cable - Fire Pump Room [Level 1]	08-Mar-21	19-Mar-21	10	10
WE2-4871	Overhead Fire Alarm Trim / Devices - Fire Pump Room [Level 1]	22-Mar-21	26-Mar-21	5	5
WE2-4891	Lighting / Electrical Trims - Fire Pump Room [Level 1]	24-Mar-21	30-Mar-21	5	5
FPL Vault 1A06					
WE2-8381	Install Primary Power Ductbank	21-Dec-20	21-Jan-21	21	25
Exhibit Hall B					
Exhibit Hall B - Underground & SOG					
WE2-7379	Underground Electrical Rough-in - Exhibit Hall B	06-May-21	19-May-21	10	10
Exhibit Hall B - Interior Build-out					
WE2-6890	Hangers - Exhibit Hall B	07-Jan-21	13-Jan-21	5	5
WE2-6970	Overhead Electrical - Exhibit Hall B	18-Mar-21	07-Apr-21	15	15
WE2-7030	Electrical @ Floor Boxes / Covers - Exhibit Hall B	18-Jun-21	01-Jul-21	10	10
WE2-7050	Overhead Fire Alarm Trim / Devices - Exhibit Hall B	25-Jun-21	23-Jul-21	20	20
WE2-7060	Overhead Electrical Trim / Lighting - Exhibit Hall B	25-Jun-21	23-Jul-21	20	20
Women' Restroom 1B01					
WE2-12130	Fire Alarm Rough-Ins - Women Restroom 1B01 [Level 1]	08-Apr-21	21-Apr-21	10	10
WE2-12300	Electrical Fixtures / Devices / Trims - Women Restroom 1B01 [Level 1]	07-Jul-21	13-Jul-21	5	5
WE2-12310	Fire Alarm Trims - Women Restroom 1B01 [Level 1]	12-Jul-21	16-Jul-21	5	5
Mens Restroom 1B07					
WE2-12480	Fire Alarm Rough-Ins - Mens Restroom 1B07 [Level 1]	20-Apr-21	03-May-21	10	10
WE2-12640	Electrical Fixtures / Devices / Trims - Mens Restroom 1B07 [Level 1]	19-Jul-21	23-Jul-21	5	5
WE2-12660	Fire Alarm Trims - Mens Restroom 1B07 [Level 1]	22-Jul-21	28-Jul-21	5	5
Womens Restroom 1B08					
WE2-12780	Fire Alarm Rough-Ins - Womens Restroom 1B08 [Level 1]	27-Apr-21	10-May-21	10	10
WE2-12940	Electrical Fixtures / Devices / Trims - Womens Restroom 1B08 [Level 1]	26-Jul-21	30-Jul-21	5	5
WE2-12960	Fire Alarm Trims - Womens Restroom 1B08 [Level 1]	29-Jul-21	04-Aug-21	5	5
Exhibit Hall A					
Exhibit Hall A - Underground & SOG					



Balfour Beatty

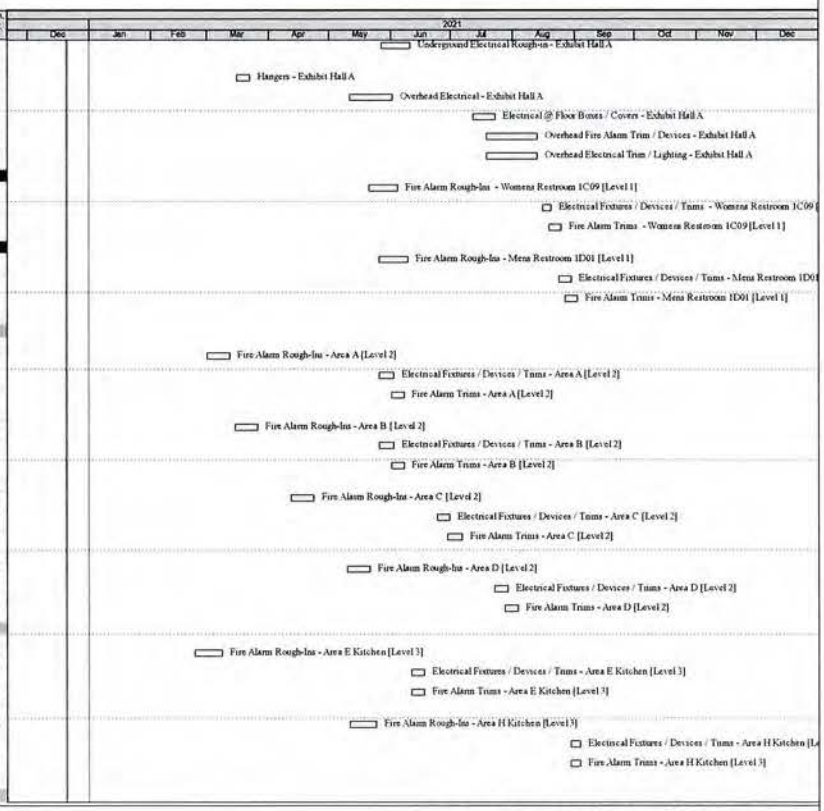
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Electrical 2021 Work

Data Date: 20-Dec-20
Print Date: 09-Dec-20 17:22

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-7401	Underground Electrical Rough-in - Exhibit Hall A	27-May-21	10-Jun-21	10	10
Exhibit Hall A - Interior Build-out					
WE2-7449	Hangers - Exhibit Hall A	16-Mar-21	22-Mar-21	5	5
WE2-7435	Overhead Electrical - Exhibit Hall A	11-May-21	01-Jun-21	15	15
WE2-7457	Electrical @ Floor Boxes / Covers - Exhibit Hall A	12-Jul-21	23-Jul-21	10	10
WE2-7425	Overhead Fire Alarm Trim / Devices - Exhibit Hall A	19-Jul-21	13-Aug-21	20	20
WE2-7427	Overhead Electrical Trim / Lighting - Exhibit Hall A	19-Jul-21	13-Aug-21	20	20
Womens Restroom 1C09					
WE2-13080	Fire Alarm Rough-Ins - Womens Restroom 1C09 [Level 1]	21-May-21	04-Jun-21	10	10
WE2-13290	Electrical Fixtures / Devices / Trims - Womens Restroom 1C09 [Level 1]	16-Aug-21	20-Aug-21	5	5
WE2-13300	Fire Alarm Trims - Womens Restroom 1C09 [Level 1]	19-Aug-21	25-Aug-21	5	5
Mens Restroom 1D01					
WE2-13680	Fire Alarm Rough-Ins - Mens Restroom 1D01 [Level 1]	26-May-21	09-Jun-21	10	10
WE2-13890	Electrical Fixtures / Devices / Trims - Mens Restroom 1D01 [Level 1]	24-Aug-21	30-Aug-21	5	5
WE2-13900	Fire Alarm Trims - Mens Restroom 1D01 [Level 1]	27-Aug-21	02-Sep-21	5	5
Interiors					
Level 2					
Area A					
WE2-10920	Fire Alarm Rough-Ins - Area A [Level 2]	01-Mar-21	12-Mar-21	10	10
WE2-11090	Electrical Fixtures / Devices / Trims - Area A [Level 2]	26-May-21	02-Jun-21	5	5
WE2-11100	Fire Alarm Trims - Area A [Level 2]	01-Jun-21	07-Jun-21	5	5
Area B					
WE2-11270	Fire Alarm Rough-Ins - Area B [Level 2]	15-Mar-21	26-Mar-21	10	10
WE2-11390	Electrical Fixtures / Devices / Trims - Area B [Level 2]	26-May-21	02-Jun-21	5	5
WE2-11400	Fire Alarm Trims - Area B [Level 2]	01-Jun-21	07-Jun-21	5	5
Area C					
WE2-11550	Fire Alarm Rough-Ins - Area C [Level 2]	12-Apr-21	23-Apr-21	10	10
WE2-11670	Electrical Fixtures / Devices / Trims - Area C [Level 2]	24-Jun-21	30-Jun-21	5	5
WE2-11680	Fire Alarm Trims - Area C [Level 2]	29-Jun-21	06-Jul-21	5	5
Area D					
WE2-11830	Fire Alarm Rough-Ins - Area D [Level 2]	10-May-21	21-May-21	10	10
WE2-11950	Electrical Fixtures / Devices / Trims - Area D [Level 2]	23-Jul-21	29-Jul-21	5	5
WE2-11960	Fire Alarm Trims - Area D [Level 2]	28-Jul-21	03-Aug-21	5	5
Level 3					
Area E - Kitchen					
WE2-47941	Fire Alarm Rough-Ins - Area E Kitchen [Level 3]	23-Feb-21	08-Mar-21	10	10
WE2-48151	Electrical Fixtures / Devices / Trims - Area E Kitchen [Level 3]	11-Jun-21	17-Jun-21	5	5
WE2-48161	Fire Alarm Trims - Area E Kitchen [Level 3]	11-Jun-21	17-Jun-21	5	5
Area H - Kitchen					
WE2-49971	Fire Alarm Rough-Ins - Area H Kitchen [Level 3]	11-May-21	24-May-21	10	10
WE2-7131	Electrical Fixtures / Devices / Trims - Area H Kitchen [Level 3]	30-Aug-21	03-Sep-21	5	5
WE2-7133	Fire Alarm Trims - Area H Kitchen [Level 3]	30-Aug-21	03-Sep-21	5	5
CEP					
Generator Room (3.A.10)					



Balfour Beatty

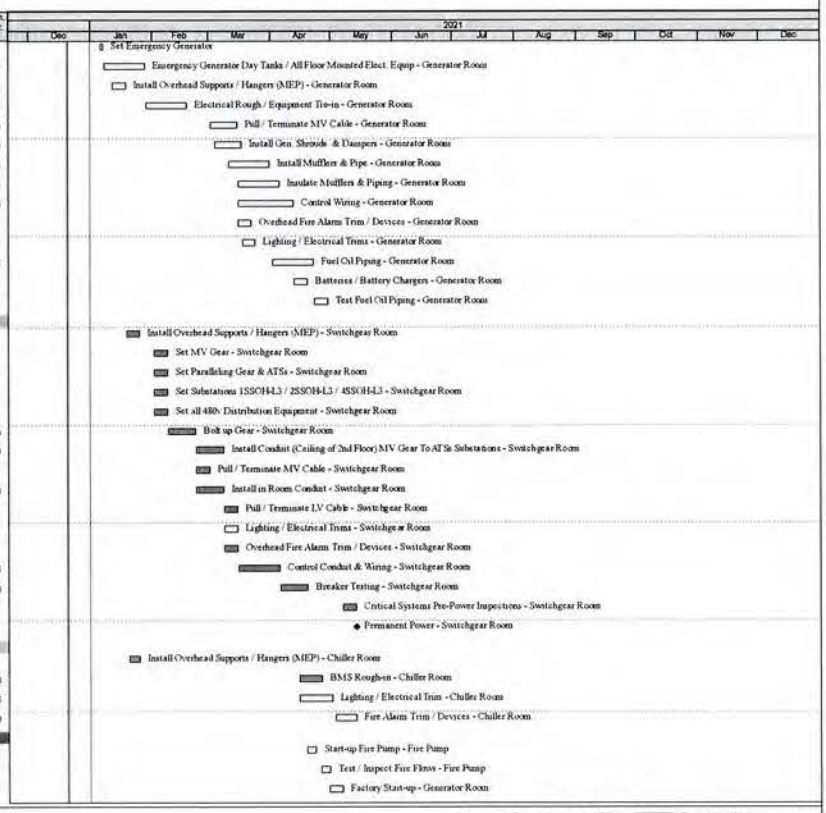
MATTHEWS SOUTHWEST

Remaining Level of Effort
Remaining Work
Actual Level of Effort
Critical Remaining Work
Actual Work
Milestone

BCCCH - Electrical 2021 Work

Data Date: 20-Dec-20
Print Date: 09-Dec-20 17:22

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-5266	Set Emergency Generator	06-Jan-21	07-Jan-21	2	2
WE2-5265	Emergency Generator Day Tanks / All Floor Mounted Elect. Equip - Generator R	08-Jan-21	28-Jan-21	15	15
WE2-5245	Install Overhead Supports / Hangers (MEP) - Generator Room	12-Jan-21	18-Jan-21	5	5
WE2-5255	Electrical Rough / Equipment Tie-in - Generator Room	29-Jan-21	18-Feb-21	15	15
WE2-5315	Pull / Terminate MV Cable - Generator Room	02-Mar-21	15-Mar-21	10	10
WE2-5295	Install Gen. Shrouds & Dampers - Generator Room	04-Mar-21	17-Mar-21	10	10
WE2-5325	Install Mufflers & Pipe - Generator Room	11-Mar-21	31-Mar-21	15	15
WE2-5335	Insulate Mufflers & Piping - Generator Room	16-Mar-21	05-Apr-21	15	15
WE2-5345	Control Wiring - Generator Room	16-Mar-21	13-Apr-21	20	20
WE2-8800	Overhead Fire Alarm Trim / Devices - Generator Room	16-Mar-21	22-Mar-21	5	5
WE2-5375	Lighting / Electrical Trims - Generator Room	18-Mar-21	24-Mar-21	5	5
WE2-5305	Fuel Oil Piping - Generator Room	02-Apr-21	22-Apr-21	15	15
WE2-5385	Batteries / Battery Chargers - Generator Room	13-Apr-21	19-Apr-21	5	5
WE2-5395	Test Fuel Oil Piping - Generator Room	23-Apr-21	29-Apr-21	5	5
Switchgear Room (3.A.09) (3.A.01) (3.A.11)					
WE2-5435	Install Overhead Supports / Hangers (MEP) - Switchgear Room	19-Jan-21	25-Jan-21	5	5
WE2-5455	Set MV Gear - Switchgear Room	02-Feb-21	08-Feb-21	5	5
WE2-5465	Set Paralleling Gear & ATSs - Switchgear Room	02-Feb-21	08-Feb-21	5	5
WE2-5475	Set Substations 1SSOH-L3 / 2SSOH-L3 / 4SSOH-L3 - Switchgear Room	02-Feb-21	08-Feb-21	5	5
WE2-5485	Set all 480v Distribution Equipment - Switchgear Room	02-Feb-21	08-Feb-21	5	5
WE2-5495	Bolt up Gear - Switchgear Room	09-Feb-21	22-Feb-21	10	10
WE2-5505	Install Conduit (Ceiling of 2nd Floor) MV Gear To ATSs Substations - Switchge	23-Feb-21	08-Mar-21	10	10
WE2-5515	Pull / Terminate MV Cable - Switchgear Room	23-Feb-21	01-Mar-21	5	5
WE2-5525	Install in Room Conduit - Switchgear Room	23-Feb-21	08-Mar-21	10	10
WE2-5535	Pull / Terminate LV Cable - Switchgear Room	09-Mar-21	15-Mar-21	5	5
WE2-5555	Lighting / Electrical Trims - Switchgear Room	09-Mar-21	15-Mar-21	5	5
WE2-8790	Overhead Fire Alarm Trim / Devices - Switchgear Room	09-Mar-21	15-Mar-21	5	5
WE2-5545	Control Conduit & Wiring - Switchgear Room	16-Mar-21	05-Apr-21	15	15
WE2-5565	Breaker Testing - Switchgear Room	06-Apr-21	19-Apr-21	10	10
WE2-7477	Critical Systems Pre-Power Inspections - Switchgear Room	07-May-21	13-May-21	5	5
WE2-7479	Permanent Power - Switchgear Room		13-May-21	0	0
Chiller Room					
WE2-7159	Install Overhead Supports / Hangers (MEP) - Chiller Room	20-Jan-21	25-Jan-21	5	5
WE2-5125	BMS Rough-in - Chiller Room	15-Apr-21	26-Apr-21	10	10
WE2-5215	Lighting / Electrical Trim - Chiller Room	15-Apr-21	01-May-21	15	15
WE2-8440	Fire Alarm Trim / Devices - Chiller Room	03-May-21	13-May-21	10	10
Test / Commissioning					
WE2-7495	Start-up Fire Pump - Fire Pump	19-Apr-21	23-Apr-21	5	5
WE2-7499	Test / Inspect Fire Flows - Fire Pump	26-Apr-21	30-Apr-21	5	5
WE2-7481	Factory Start-up - Generator Room	30-Apr-21	06-May-21	5	5



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

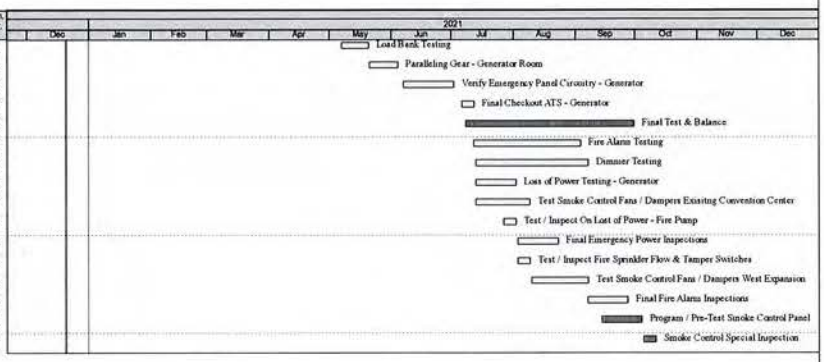
Balfour Beatty

MATTHEWS SOUTHWEST

BCCCH - Electrical 2021 Work

Data Date: 20-Dec-20
Print Date: 09-Dec-20 17:22

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-7483	Load Bank Testing	07-May-21	20-May-21	10	10
WE2-7485	Paralleling Gear - Generator Room	21-May-21	04-Jun-21	10	10
WE2-7487	Verify Emergency Panel Circuitry - Generator	07-Jun-21	02-Jul-21	20	20
WE2-7489	Final Checkout ATS - Generator	06-Jul-21	12-Jul-21	5	5
WE2-8520	Final Test & Balance	08-Jul-21	30-Sep-21	60	60
WE2-8560	Fire Alarm Testing	12-Jul-21	03-Sep-21	40	40
WE2-8600	Dimmer Testing	13-Jul-21	07-Sep-21	40	40
WE2-7491	Loss of Power Testing - Generator	13-Jul-21	02-Aug-21	15	15
WE2-7505	Test Smoke Control Fans / Dampers Existing Convention Center	13-Jul-21	09-Aug-21	20	20
WE2-7501	Test / Inspect On Lost of Power - Fire Pump	27-Jul-21	02-Aug-21	5	5
WE2-7493	Final Emergency Power Inspections	03-Aug-21	23-Aug-21	15	15
WE2-7497	Test / Inspect Fire Sprinkler Flow & Tamper Switches	03-Aug-21	09-Aug-21	5	5
WE2-8580	Test Smoke Control Fans / Dampers West Expansion	10-Aug-21	07-Sep-21	20	20
WE2-7503	Final Fire Alarm Inspections	07-Sep-21	27-Sep-21	15	15
WE2-7507	Program / Pre-Test Smoke Control Panel	14-Sep-21	04-Oct-21	15	15
WE2-7509	Smoke Control Special Inspection	05-Oct-21	11-Oct-21	5	5



Balfour Beatty

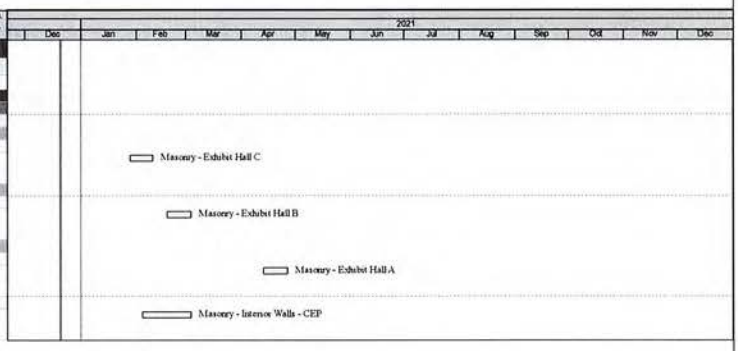
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Masonry Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:20

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Broward County Convention Center - West Expansion					
West Expansion					
GMP No. 2 - West Expansion					
Construction					
Interiors & Systems					
Exhibit Halls (A+B+C)					
Exhibit Hall C					
Exhibit Hall C - Interior Build-out					
WE2-6481	Masonry - Exhibit Hall C	28-Jan-21	10-Feb-21	10	10
Exhibit Hall B					
Exhibit Hall B - Interior Build-out					
WE2-6950	Masonry - Exhibit Hall B	18-Feb-21	03-Mar-21	10	10
Exhibit Hall A					
Exhibit Hall A - Interior Build-out					
WE2-7451	Masonry - Exhibit Hall A	13-Apr-21	26-Apr-21	10	10
CEP					
WE2-8120	Masonry - Interior Walls - CEP	04-Feb-21	03-Mar-21	20	20



Balfour Beatty

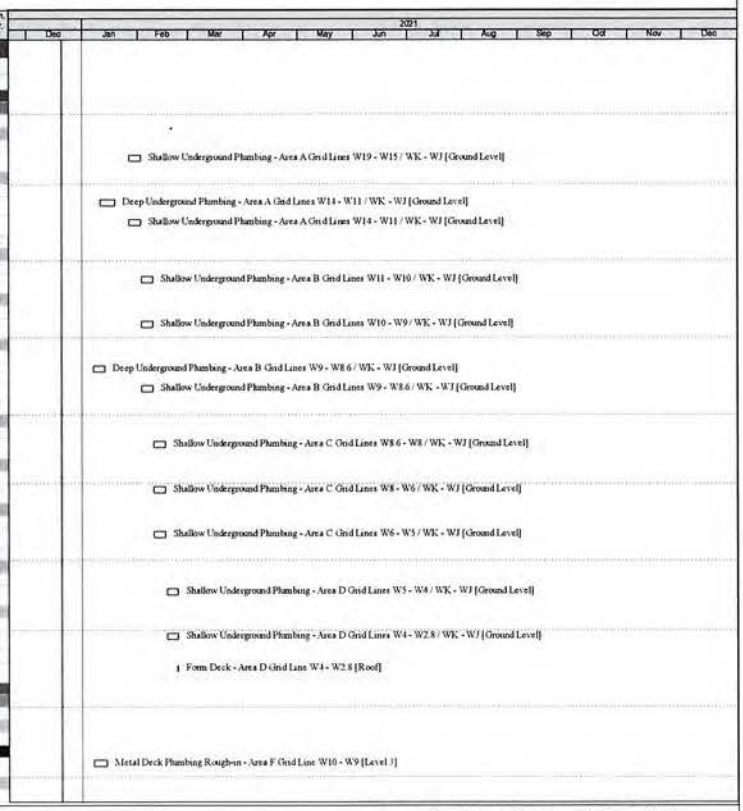
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Plumbing Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:32

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Broward County Convention Center - West Expansion					
West Expansion					
GMP No. 2 - West Expansion					
Construction - West West					
Structure					
Area A - Grid Lines WK, WJ, WI					
W19 - W15					
Ground Level					
WE2-7513	Shallow Underground Plumbing - Area A Grid Lines W19 - W15 / WK - WJ [Ground Level]	27-Jan-21	02-Feb-21	5	5
W15 - W11					
Ground Level					
WE2-7181	Deep Underground Plumbing - Area A Grid Lines W14 - W11 / WK - WJ [Ground Level]	11-Jan-21	19-Jan-21	7	7
WE2-7201	Shallow Underground Plumbing - Area A Grid Lines W14 - W11 / WK - WJ [Ground Level]	27-Jan-21	02-Feb-21	5	5
Area B - Grid Lines WK, WJ, WI					
W11 - W10					
Ground Level					
WE2-7217	Shallow Underground Plumbing - Area B Grid Lines W11 - W10 / WK - WJ [Ground Level]	03-Feb-21	09-Feb-21	5	5
W10 - W9					
Ground Level					
WE2-7233	Shallow Underground Plumbing - Area B Grid Lines W10 - W9 / WK - WJ [Ground Level]	03-Feb-21	09-Feb-21	5	5
W9 - W8.6					
Ground Level					
WE2-7235	Deep Underground Plumbing - Area B Grid Lines W9 - W8.6 / WK - WJ [Ground Level]	07-Jan-21	13-Jan-21	5	5
WE2-7249	Shallow Underground Plumbing - Area B Grid Lines W9 - W8.6 / WK - WJ [Ground Level]	03-Feb-21	09-Feb-21	5	5
Area C - Grid Lines WK, WJ, WI					
W8.6 - W8					
Ground Level					
WE2-7265	Shallow Underground Plumbing - Area C Grid Lines W8.6 - W8 / WK - WJ [Ground Level]	10-Feb-21	16-Feb-21	5	5
W8 - W6					
Ground Level					
WE2-7281	Shallow Underground Plumbing - Area C Grid Lines W8 - W6 / WK - WJ [Ground Level]	10-Feb-21	16-Feb-21	5	5
W6 - W5					
Ground Level					
WE2-7297	Shallow Underground Plumbing - Area C Grid Lines W6 - W5 / WK - WJ [Ground Level]	10-Feb-21	16-Feb-21	5	5
Area D - Grid Lines WK, WJ, WI					
W5 - W4					
Ground Level					
WE2-7313	Shallow Underground Plumbing - Area D Grid Lines W5 - W4 / WK - WJ [Ground Level]	17-Feb-21	23-Feb-21	5	5
W4 - W2.8					
Ground Level					
WE2-7329	Shallow Underground Plumbing - Area D Grid Lines W4 - W2.8 / WK - WJ [Ground Level]	17-Feb-21	23-Feb-21	5	5
Low Roof					
WE2-14159	Form Deck - Area D Grid Line W4 - W2.8 [Roof]	23-Feb-21	23-Feb-21	1	1
Construction					
Structure					
Existing Area (E+F+G+H) - Grid Lines WG - WF					
Area F - WG - WF					
W10 - W9					
Level 3					
WE2-14341	Metal Deck Plumbing Rough-in - Area F Grid Line W10 - W9 [Level 3]	07-Jan-21	14-Jan-21	6	6
Area G - WG - WF					
W9 - W8					



Balfour Beatty

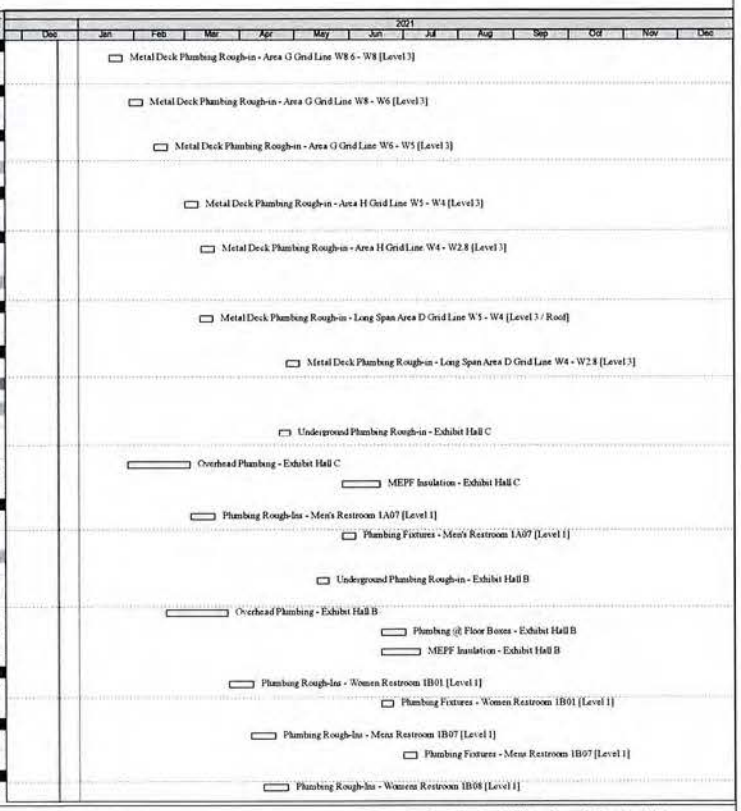
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Plumbing Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:32

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Level 3					
WE2-48521	Metal Deck Plumbing Rough-in - Area G Grid Line W8.6 - W8 [Level 3]	18-Jan-21	25-Jan-21	6	6
W8 - W6					
Level 3					
WE2-48561	Metal Deck Plumbing Rough-in - Area G Grid Line W8 - W6 [Level 3]	29-Jan-21	05-Feb-21	6	6
W6 - W5					
Level 3					
WE2-48601	Metal Deck Plumbing Rough-in - Area G Grid Line W6 - W5 [Level 3]	12-Feb-21	19-Feb-21	6	6
Area H - WG - WF					
W5 - W4					
Level 3					
WE2-48641	Metal Deck Plumbing Rough-in - Area H Grid Line W5 - W4 [Level 3]	01-Mar-21	08-Mar-21	6	6
W4 - W2.8					
Level 3					
WE2-48681	Metal Deck Plumbing Rough-in - Area H Grid Line W4 - W2.8 [Level 3]	10-Mar-21	17-Mar-21	6	6
Exhibition Hall - Long Span					
Area D - WI - WH					
W5 - W4					
Level 3 (Roof)					
WE2-44631	Metal Deck Plumbing Rough-in - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	09-Mar-21	16-Mar-21	6	6
W4 - W2.8					
Level 3					
WE2-44661	Metal Deck Plumbing Rough-in - Long Span Area D Grid Line W4 - W2.8 [Level 3]	26-Apr-21	03-May-21	6	6
Interiors & Systems					
Exhibit Halls (A+B+C)					
Exhibit Hall C					
Exhibit Hall C - Underground & SOG					
WE2-43321	Underground Plumbing Rough-in - Exhibit Hall C	22-Apr-21	28-Apr-21	5	5
Exhibit Hall C - Interior Build-out					
WE2-6480	Overhead Plumbing - Exhibit Hall C	28-Jan-21	03-Mar-21	25	25
WE2-6385	MEPF Insulation - Exhibit Hall C	27-May-21	17-Jun-21	15	15
Men's Restroom 1A07					
WE2-13360	Plumbing Rough-Ins - Men's Restroom 1A07 [Level 1]	04-Mar-21	17-Mar-21	10	10
WE2-13490	Plumbing Fixtures - Men's Restroom 1A07 [Level 1]	27-May-21	03-Jun-21	5	5
Exhibit Hall B					
Exhibit Hall B - Underground & SOG					
WE2-7381	Underground Plumbing Rough-in - Exhibit Hall B	13-May-21	19-May-21	5	5
Exhibit Hall B - Interior Build-out					
WE2-6910	Overhead Plumbing - Exhibit Hall B	18-Feb-21	24-Mar-21	25	25
WE2-7020	Plumbing @ Floor Boxes - Exhibit Hall B	18-Jun-21	01-Jul-21	10	10
WE2-7040	MEPF Insulation - Exhibit Hall B	18-Jun-21	09-Jul-21	15	15
Women's Restroom 1B01					
WE2-12110	Plumbing Rough-Ins - Women Restroom 1B01 [Level 1]	25-Mar-21	07-Apr-21	10	10
WE2-12250	Plumbing Fixtures - Women Restroom 1B01 [Level 1]	18-Jun-21	24-Jun-21	5	5
Mens Restroom 1B07					
WE2-12460	Plumbing Rough-Ins - Mens Restroom 1B07 [Level 1]	06-Apr-21	19-Apr-21	10	10
WE2-12590	Plumbing Fixtures - Mens Restroom 1B07 [Level 1]	30-Jun-21	07-Jul-21	5	5
Womens Restroom 1B08					
WE2-12760	Plumbing Rough-Ins - Womens Restroom 1B08 [Level 1]	13-Apr-21	26-Apr-21	10	10



Balfour Beatty

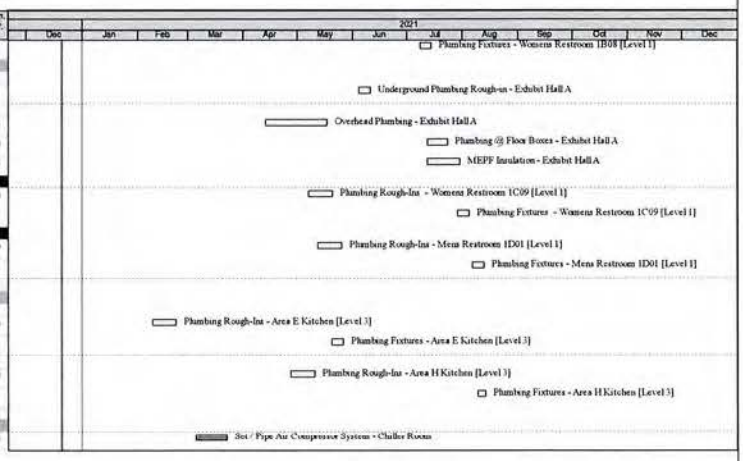
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Plumbing Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:32

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-12890	Plumbing Fixtures - Womens Restroom 1B08 [Level 1]	08-Jul-21	14-Jul-21	5	5
Exhibit Hall A					
Exhibit Hall A - Underground & SOG					
WE2-7403	Underground Plumbing Rough-in - Exhibit Hall A	04-Jun-21	10-Jun-21	5	5
Exhibit Hall A - Interior Build-out					
WE2-7453	Overhead Plumbing - Exhibit Hall A	13-Apr-21	17-May-21	25	25
WE2-7455	Plumbing @ Floor Boxes - Exhibit Hall A	12-Jul-21	23-Jul-21	10	10
WE2-7459	MEPF Insulation - Exhibit Hall A	12-Jul-21	30-Jul-21	15	15
Womens Restroom 1C09					
WE2-13060	Plumbing Rough-Ins - Womens Restroom 1C09 [Level 1]	07-May-21	20-May-21	10	10
WE2-13190	Plumbing Fixtures - Womens Restroom 1C09 [Level 1]	29-Jul-21	04-Aug-21	5	5
Mens Restroom 1D01					
WE2-13660	Plumbing Rough-Ins - Mens Restroom 1D01 [Level 1]	12-May-21	25-May-21	10	10
WE2-13790	Plumbing Fixtures - Mens Restroom 1D01 [Level 1]	06-Aug-21	12-Aug-21	5	5
Interiors					
Level 3					
Area E - Kitchen					
WE2-47921	Plumbing Rough-Ins - Area E Kitchen [Level 3]	09-Feb-21	22-Feb-21	10	10
WE2-48051	Plumbing Fixtures - Area E Kitchen [Level 3]	20-May-21	26-May-21	5	5
Area H - Kitchen					
WE2-49951	Plumbing Rough-Ins - Area H Kitchen [Level 3]	27-Apr-21	10-May-21	10	10
WE2-7111	Plumbing Fixtures - Area H Kitchen [Level 3]	09-Aug-21	13-Aug-21	5	5
CEP					
Chiller Room					
WE2-5615	Set / Pipe Air Compressor System - Chiller Room	05-Mar-21	22-Mar-21	15	15



Balfour Beatty

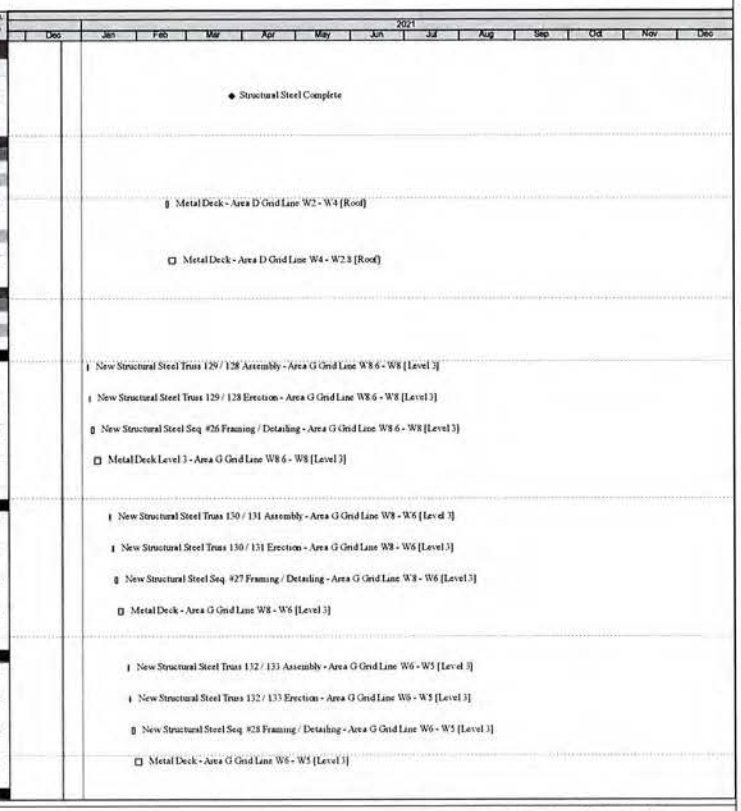
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Structural Steel Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:17

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Broward County Convention Center - West Expansion					
West Expansion					
West Expansion Construction Milestones					
PM-090	Structural Steel Complete		26-Mar-21	0	0
GMP No. 2 - West Expansion					
Construction - West West					
Structure					
Area D - Grid Lines WK, WJ, WI					
W5 - W4					
W4.2 - W4 (Low Roof)					
WE2-3233	Metal Deck - Area D Grid Line W2 - W4 [Roof]	17-Feb-21	18-Feb-21	2	2
W4 - W2.8					
Low Roof					
WE2-14156	Metal Deck - Area D Grid Line W4 - W2.8 [Roof]	19-Feb-21	22-Feb-21	2	2
Construction					
Structure					
Existing Area (E+F+G+H) - Grid Lines WG - WF					
Area G - WG - WF					
W9 - W8					
Level 3					
WE2-14847	New Structural Steel Truss 129 / 128 Assembly - Area G Grid Line W8.6 - W8 [Level 3]	04-Jan-21	04-Jan-21	1	1
WE2-14849	New Structural Steel Truss 129 / 128 Erection - Area G Grid Line W8.6 - W8 [Level 3]	05-Jan-21	05-Jan-21	1	1
WE2-14850	New Structural Steel Seq #26 Framing / Detailing - Area G Grid Line W8.6 - W8 [Level 3]	06-Jan-21	07-Jan-21	2	2
WE2-48501	Metal Deck Level 3 - Area G Grid Line W8.6 - W8 [Level 3]	08-Jan-21	11-Jan-21	3	3
W8 - W6					
Level 3					
WE2-14867	New Structural Steel Truss 130 / 131 Assembly - Area G Grid Line W8 - W6 [Level 3]	16-Jan-21	16-Jan-21	1	1
WE2-14869	New Structural Steel Truss 130 / 131 Erection - Area G Grid Line W8 - W6 [Level 3]	18-Jan-21	18-Jan-21	1	1
WE2-14870	New Structural Steel Seq #27 Framing / Detailing - Area G Grid Line W8 - W6 [Level 3]	19-Jan-21	20-Jan-21	2	2
WE2-48541	Metal Deck - Area G Grid Line W8 - W6 [Level 3]	21-Jan-21	23-Jan-21	3	3
W6 - W5					
Level 3					
WE2-14887	New Structural Steel Truss 132 / 133 Assembly - Area G Grid Line W6 - W5 [Level 3]	26-Jan-21	26-Jan-21	1	1
WE2-14889	New Structural Steel Truss 132 / 133 Erection - Area G Grid Line W6 - W5 [Level 3]	27-Jan-21	27-Jan-21	1	1
WE2-14890	New Structural Steel Seq #28 Framing / Detailing - Area G Grid Line W6 - W5 [Level 3]	28-Jan-21	29-Jan-21	2	2
WE2-48581	Metal Deck - Area G Grid Line W6 - W5 [Level 3]	30-Jan-21	02-Feb-21	3	3
Roof					



Balfour Beatty

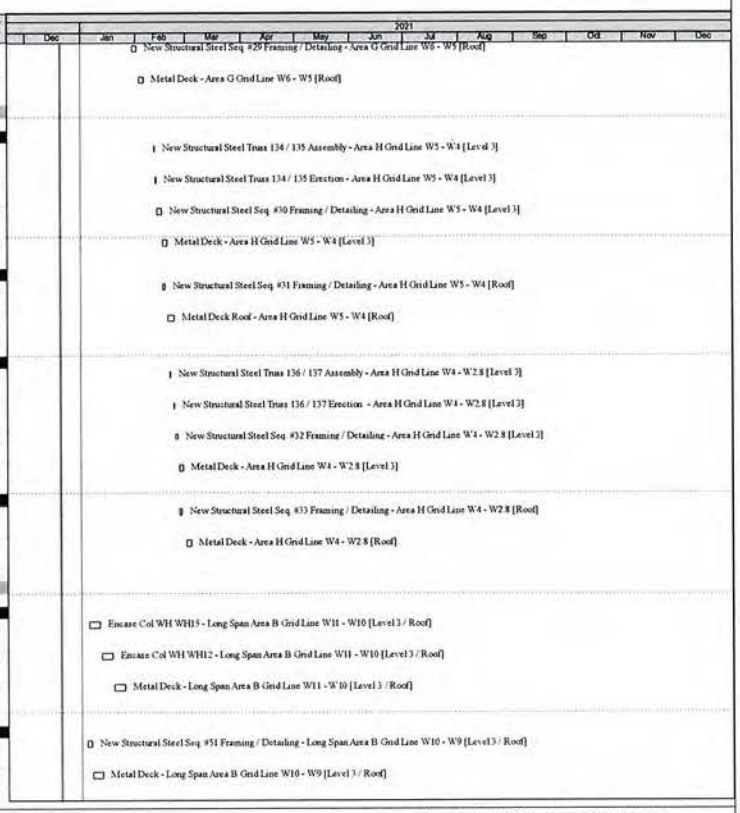
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Structural Steel Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:17

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-14900	New Structural Steel Seq. #29 Framing / Detailing - Area G Grid Line W6 - W5 [Roof]	30-Jan-21	01-Feb-21	2	2
WE2-48471	Metal Deck - Area G Grid Line W6 - W5 [Roof]	03-Feb-21	05-Feb-21	3	3
Area H - WG - WF					
W5 - W4					
Level 3					
WE2-14670	New Structural Steel Truss 134 / 135 Assembly - Area H Grid Line W5 - W4 [Level 3]	11-Feb-21	11-Feb-21	1	1
WE2-14671	New Structural Steel Truss 134 / 135 Erection - Area H Grid Line W5 - W4 [Level 3]	12-Feb-21	12-Feb-21	1	1
WE2-14680	New Structural Steel Seq. #30 Framing / Detailing - Area H Grid Line W5 - W4 [Level 3]	13-Feb-21	15-Feb-21	2	2
WE2-48621	Metal Deck - Area H Grid Line W5 - W4 [Level 3]	16-Feb-21	18-Feb-21	3	3
Roof					
WE2-14690	New Structural Steel Seq. #31 Framing / Detailing - Area H Grid Line W5 - W4 [Roof]	16-Feb-21	17-Feb-21	2	2
WE2-48481	Metal Deck Roof - Area H Grid Line W5 - W4 [Roof]	19-Feb-21	22-Feb-21	3	3
W4 - W2.8					
Level 3					
WE2-14700	New Structural Steel Truss 136 / 137 Assembly - Area H Grid Line W4 - W2.8 [Level 3]	20-Feb-21	20-Feb-21	1	1
WE2-14701	New Structural Steel Truss 136 / 137 Erection - Area H Grid Line W4 - W2.8 [Level 3]	22-Feb-21	22-Feb-21	1	1
WE2-14710	New Structural Steel Seq. #32 Framing / Detailing - Area H Grid Line W4 - W2.8 [Level 3]	23-Feb-21	24-Feb-21	2	2
WE2-48661	Metal Deck - Area H Grid Line W4 - W2.8 [Level 3]	25-Feb-21	27-Feb-21	3	3
Roof					
WE2-14720	New Structural Steel Seq. #33 Framing / Detailing - Area H Grid Line W4 - W2.8 [Roof]	25-Feb-21	26-Feb-21	2	2
WE2-48491	Metal Deck - Area H Grid Line W4 - W2.8 [Roof]	01-Mar-21	03-Mar-21	3	3
Exhibition Hall - Long Span					
Area B - W1 - WH					
W11 - W10					
Level 3 (Roof)					
WE2-4452	Encase Col WH WH15 - Long Span Area B Grid Line W11 - W10 [Level 3 / Roof]	05-Jan-21	11-Jan-21	5	5
WE2-47121	Encase Col WH WH12 - Long Span Area B Grid Line W11 - W10 [Level 3 / Roof]	12-Jan-21	18-Jan-21	5	5
WE2-4569	Metal Deck - Long Span Area B Grid Line W11 - W10 [Level 3 / Roof]	19-Jan-21	25-Jan-21	5	5
W10 - W9					
Level 3 (Roof)					
WE2-47781	New Structural Steel Seq. #51 Framing / Detailing - Long Span Area B Grid Line W10 - W9 [Level 3 / Roof]	04-Jan-21	06-Jan-21	3	3
WE2-42861	Metal Deck - Long Span Area B Grid Line W10 - W9 [Level 3 / Roof]	07-Jan-21	12-Jan-21	5	5



Balfour Beatty

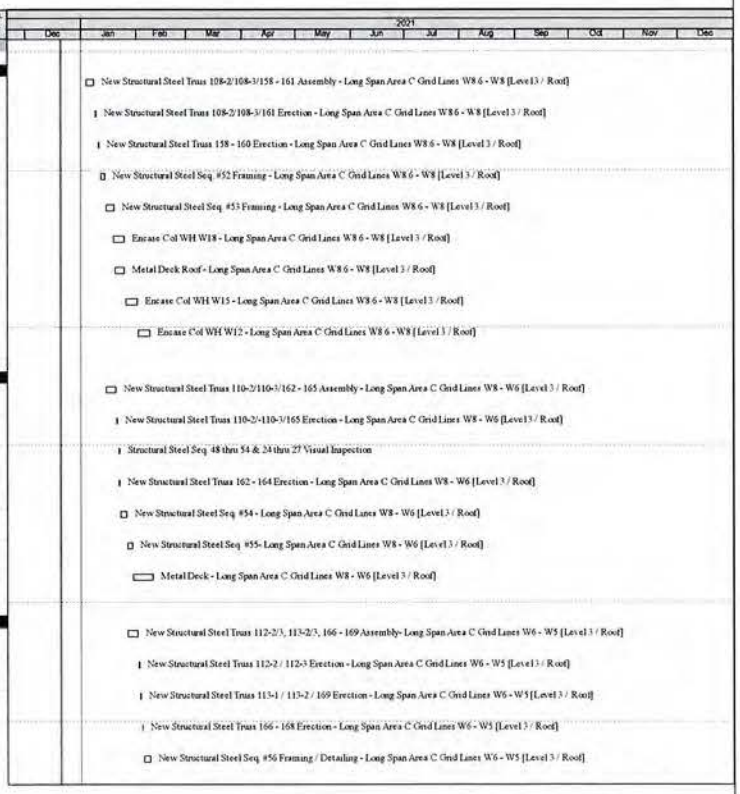
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Structural Steel Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:17

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
Area C - W8 - WH					
W9 - W8					
Level 3 (Roof)					
WE2-4611	New Structural Steel Truss 108-2/108-3/158 - 161 Assembly - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	04-Jan-21	08-Jan-21	5	5
WE2-4613	New Structural Steel Truss 108-2/108-3/161 Erection - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	09-Jan-21	09-Jan-21	1	1
WE2-4615	New Structural Steel Truss 158 - 160 Erection - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	11-Jan-21	11-Jan-21	1	1
WE2-4620	New Structural Steel Seq #52 Framing - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	12-Jan-21	14-Jan-21	3	3
WE2-4782	New Structural Steel Seq #53 Framing - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	15-Jan-21	19-Jan-21	3	3
WE2-47151	Encase Col WH W18 - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	19-Jan-21	25-Jan-21	5	5
WE2-4640	Metal Deck Roof - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	20-Jan-21	25-Jan-21	5	5
WE2-47161	Encase Col WH W15 - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	26-Jan-21	01-Feb-21	5	5
WE2-47171	Encase Col WH W12 - Long Span Area C Grid Lines W8.6 - W8 [Level 3 / Roof]	02-Feb-21	08-Feb-21	5	5
W8 - W6					
Level 3 (Roof)					
WE2-14467	New Structural Steel Truss 110-2/110-3/162 - 165 Assembly - Long Span Area C Grid Lines W8 - W6 [Level 3 / Roof]	15-Jan-21	20-Jan-21	5	5
WE2-14469	New Structural Steel Truss 110-2/-110-3/165 Erection - Long Span Area C Grid Lines W8 - W6 [Level 3 / Roof]	21-Jan-21	21-Jan-21	1	1
WE2-4189	Structural Steel Seq 48 thru 54 & 24 thru 27 Visual Inspection	22-Jan-21	22-Jan-21	1	1
WE2-14471	New Structural Steel Truss 162 - 164 Erection - Long Span Area C Grid Lines W8 - W6 [Level 3 / Roof]	22-Jan-21	22-Jan-21	1	1
WE2-14590	New Structural Steel Seq #54 - Long Span Area C Grid Lines W8 - W6 [Level 3 / Roof]	23-Jan-21	26-Jan-21	3	3
WE2-4781	New Structural Steel Seq #55- Long Span Area C Grid Lines W8 - W6 [Level 3 / Roof]	27-Jan-21	29-Jan-21	3	3
WE2-42921	Metal Deck - Long Span Area C Grid Lines W8 - W6 [Level 3 / Roof]	30-Jan-21	10-Feb-21	10	10
W6 - W5					
Level 3 (Roof)					
WE2-14565	New Structural Steel Truss 112-2/3, 113-2/3, 166 - 169 Assembly- Long Span Area C Grid Lines W6 - W5 [Level 3 / Roof]	27-Jan-21	01-Feb-21	5	5
WE2-14567	New Structural Steel Truss 112-2 / 112-3 Erection - Long Span Area C Grid Lines W6 - W5 [Level 3 / Roof]	02-Feb-21	02-Feb-21	1	1
WE2-14569	New Structural Steel Truss 113-1 / 113-2 / 169 Erection - Long Span Area C Grid Lines W6 - W5 [Level 3 / Roof]	03-Feb-21	03-Feb-21	1	1
WE2-14571	New Structural Steel Truss 166 - 168 Erection - Long Span Area C Grid Lines W6 - W5 [Level 3 / Roof]	04-Feb-21	04-Feb-21	1	1
WE2-14610	New Structural Steel Seq #56 Framing / Detailing - Long Span Area C Grid Lines W6 - W5 [Level 3 / Roof]	05-Feb-21	08-Feb-21	3	3



Balfour Beatty

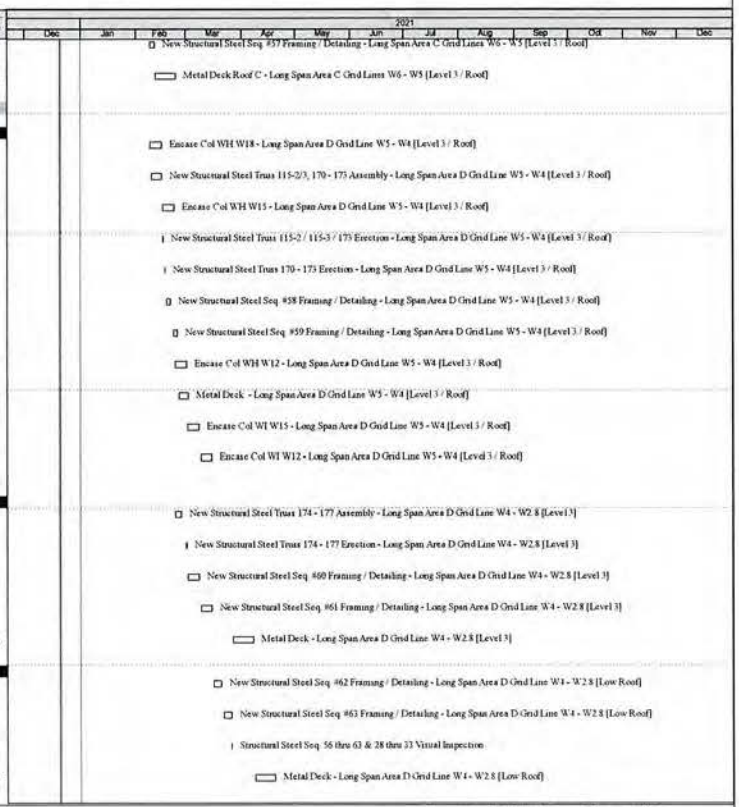
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Structural Steel Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:17

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
WE2-47801	New Structural Steel Seq #57 Framing / Detailing - Long Span Area C Grid Lines W6 - W5 [Level 3 / Roof]	09-Feb-21	11-Feb-21	3	3
WE2-42951	Metal Deck Roof C - Long Span Area C Grid Lines W6 - W5 [Level 3 / Roof]	12-Feb-21	23-Feb-21	10	10
Area D - WI - WH					
W5 - W4					
Level 3 (Roof)					
WE2-47201	Encase Col WH W18 - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	09-Feb-21	15-Feb-21	5	5
WE2-47202	New Structural Steel Truss 115-2/3, 170 - 173 Assembly - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	16-Feb-21	15-Feb-21	5	5
WE2-47211	Encase Col WH W15 - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	16-Feb-21	22-Feb-21	5	5
WE2-47212	New Structural Steel Truss 115-2 / 115-3 / 173 Erection - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	16-Feb-21	16-Feb-21	1	1
WE2-47213	New Structural Steel Truss 170 - 173 Erection - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	17-Feb-21	17-Feb-21	1	1
WE2-4700	New Structural Steel Seq #58 Framing / Detailing - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	18-Feb-21	20-Feb-21	3	3
WE2-4783	New Structural Steel Seq #59 Framing / Detailing - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	22-Feb-21	24-Feb-21	3	3
WE2-47221	Encase Col WH W12 - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	23-Feb-21	01-Mar-21	5	5
WE2-4740	Metal Deck - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	25-Feb-21	02-Mar-21	5	5
WE2-47231	Encase Col WI W15 - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	02-Mar-21	08-Mar-21	5	5
WE2-47241	Encase Col WI W12 - Long Span Area D Grid Line W5 - W4 [Level 3 / Roof]	09-Mar-21	15-Mar-21	5	5
W4 - W2.8					
Level 3					
WE2-53341	New Structural Steel Truss 174 - 177 Assembly - Long Span Area D Grid Line W4 - W2.8 [Level 3]	23-Feb-21	26-Feb-21	4	4
WE2-53351	New Structural Steel Truss 174 - 177 Erection - Long Span Area D Grid Line W4 - W2.8 [Level 3]	01-Mar-21	01-Mar-21	1	1
WE2-4786	New Structural Steel Seq #60 Framing / Detailing - Long Span Area D Grid Line W4 - W2.8 [Level 3]	02-Mar-21	08-Mar-21	5	5
WE2-4787	New Structural Steel Seq #61 Framing / Detailing - Long Span Area D Grid Line W4 - W2.8 [Level 3]	09-Mar-21	15-Mar-21	5	5
WE2-44041	Metal Deck - Long Span Area D Grid Line W4 - W2.8 [Level 3]	27-Mar-21	07-Apr-21	10	10
Roof					
WE2-14650	New Structural Steel Seq #62 Framing / Detailing - Long Span Area D Grid Line W4 - W2.8 [Low Roof]	16-Mar-21	20-Mar-21	5	5
WE2-4720	New Structural Steel Seq #63 Framing / Detailing - Long Span Area D Grid Line W4 - W2.8 [Low Roof]	22-Mar-21	26-Mar-21	5	5
WE2-7143	Structural Steel Seq 56 thru 63 & 28 thru 33 Visual Inspection	26-Mar-21	26-Mar-21	1	1
WE2-4809	Metal Deck - Long Span Area D Grid Line W4 - W2.8 [Low Roof]	08-Apr-21	19-Apr-21	10	10



Balfour Beatty

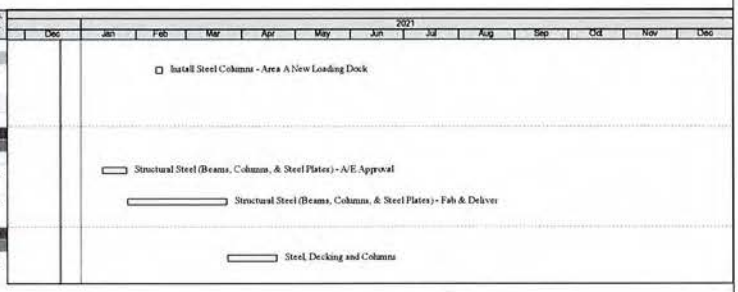
MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

BCCCH - Structural Steel Remaining Work in 2021

Data Date: 20-Dec-20
Print Date: 09-Dec-20 14:17

Activity ID	Activity Name	Start	Finish	Orig. Dur.	Rem. Dur.
New Loading Dock					
Area A					
WE2-46821	Install Steel Columns - Area A New Loading Dock	12-Feb-21	15-Feb-21	2	2
Capital Improvement					
Existing Building NE Corner Stair Tower					
Buyout and Procurement					
Procurement					
Structural Steel					
WE2-9145	Structural Steel (Beams, Columns, & Steel Plates) - A/E Approval	13-Jan-21	26-Jan-21	10	10
WE2-9148	Structural Steel (Beams, Columns, & Steel Plates) - Fab & Deliver	27-Jan-21	23-Mar-21	40	40
Construction					
Foundations and Structure					
WE2-9238	Steel, Decking and Columns	24-Mar-21	20-Apr-21	20	20



Balfour Beatty

MATTHEWS SOUTHWEST

Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

UPDATED COVID-19 PLAN FOR BCCCH OFFICE AND FIELD

Date Modified: 12/10/2020

COVID Plan Captain: Lisa Falso

GUIDELINES FOR OFFICE

This plan is effective immediately for all Balfour Beatty employees working at the BCCCH project office located at 1799 SE 17th Street. Any employees with constraints such as childcare, family members with underlying conditions, etc. that are being affected by COVID-19 must contact John Parker to discuss any potential concerns.

The following is the guide moving forward for the foreseeable future:

Office Hygiene

Due to Covid-19 there will be a continued effort to improve the overall hygiene of the BCCCH office and the project site.

Balfour Beatty will perform office cleanings consistent, to the greatest degree possible, with the CDC guidelines: https://www.cdc.gov/coronavirus/2019- ncov/community/organizations/cleaning-disinfection.html

1. In addition to the CDC guidelines Balfour Beatty has employed a full-time cleaning person (Sharonda Neil) to sanitize all door handles, surfaces, desk, etc. Please accommodate Sharonda and thank her daily!
2. Wash your hands with soap and water or use hand sanitizer, especially after touching used items or surfaces. This must be done when you enter the building.
3. Avoid touching your face
4. Sneeze or cough into a tissue, or the inside of your elbow
5. Disinfect frequently used items and surfaces as much as possible
6. Continue using face coverings while in public, and particularly when using mass transit
7. Restrooms
    a. Personnel are required to wear face covering when entering restrooms
    b. All Employees and Guests must wash their hands when leaving the restroom
    c. Waste cans will be no touch and will be located in and out of restrooms
    d. Waste to be removed throughout the day
8. Restrict **COMMON AREAS** (Breakroom 2-person limit) to be used for heating up food, putting food in the fridge, and/or getting coffee/water/soda. There will be no consumption of food in the kitchen.

People Who Feel Sick Must Stay at Home

1. DO NOT GO TO WORK – contact your manager
2. If you go to the doctor please self-quarantine in accordance with the doctor's and/or CDC recommendations

Office Personnel - Social Distancing Requirements

- You must follow Social Distancing guidelines as outlined in the CDC.
- In order to Social Distance in the office please:
  - Do not enter another employee's office.
  - Stand outside door.
  - No more than 1 person in the hallway outside an office at a time.
- All employees will wear **PROTECTIVE** cloth face coverings/face mask when work requires less than 6 feet of separation and when walking through the office. This includes all public spaces.
- Personal accountability for cleaning and disinfecting high touch surfaces
  - Each employee will be provided a bottle of hand sanitizer at desk
  - Hand sanitizer will be located on each side of all doors
  - We will have trash cans on either side of all doors
  - Disinfectants will be available in each area of the office for your use
- We will be spacing all workstations in open areas to ensure 6' or more of separation
- For the foreseeable future we will be utilizing **TELEWORK**, Microsoft Team site, GoToMeetings for all project team meetings and for any meetings with 10 or more individuals (when meeting outside of the TELEWORK mask must be worn)
- Minimize **NON-ESSENTIAL** Travel. If you do have to travel, please advise your supervisor prior to travel.
- When transporting between the office and field make sure that you sanitize the vehicle and face coverings must be worn in accordance with CDC.
- **VISITORS should be discouraged from entering office, if required, individuals** must sign in and follow the same guidelines as written in this plan. All Visitors must schedule an appointment. No walk-ins allowed.
- Everyone is encouraged to bring their food and eat at their desk.

Logistics:

Reference attached plan. There is a dedicated access point exclusively for ingress/egress to/from the office to support social distancing as recommended by the CDC.

Please note that all doors are to remain locked and you must always carry your key card access with you at all times. We are installing an AI Phone at the reception desk glass door. This will allow Lisa to communicate with and control access at the glass door.

No guests are allowed in the building without prior communication with Lisa Falso.

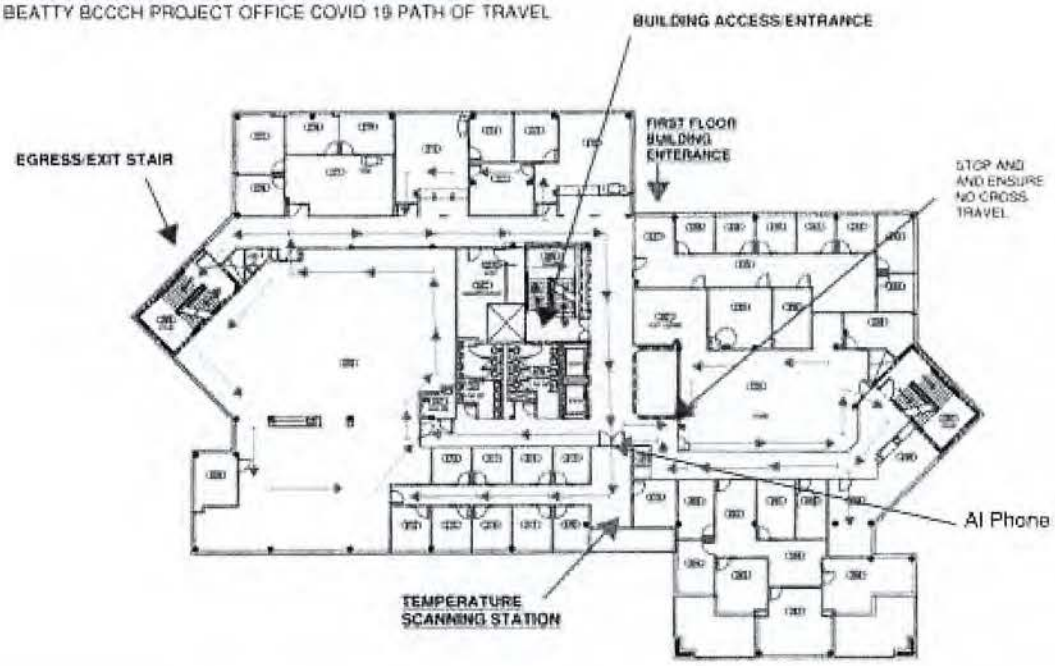
NOTE ALL EMPLOYEES AND GUEST MUST BE SCANNED BY THE THERMAL IMAGAING CAMERA LOCATED AT THE OFFICE LOBBY EVERY TIME THEY ENTER THE OFFICE. IF ANYONE IS SCANNED AND IDENIFIED AS HAVING AN ABNORMAL TEMPERATURE (AS NOTED BY THE THERMAL IMAGING CAMERA) WILL BE ASKED TO LEAVE THE OFFICE AND NOT RETURN UNTIL THEY HAVE RECEIVED A RELEASE FROM A DOCTOR.

- We have taken into consideration corridors for one-way travel to minimize interaction with others. Foot traffic in the office shall be one way. See map below for routes and direction of travel. We will post signs to indicate direction of travel through the office.
- Stairwells are one-way, signage will be posted

- We are encouraging everyone to utilize the stairs if possible. If not, only one person per elevator

AS A BACKUP PLAN ALL EMPLOYEES NEED TO HAVE A WORKSTATION AT THE OFFICE AND THEIR HOME. BBC WILL PROVIDE MONITORS FOR YOUR OFFICE AT HOME IF NEEDED. ALL MONITORS MUST BE RETURNED TO BBC AFTER THE COVID 19 IS OVER.

SUITE 203A 1799 SE 17TH STREET, FORT LAUDERDALE 33316
BALFOUR BEATTY BCCCH PROJECT OFFICE COVID 19 PATH OF TRAVEL



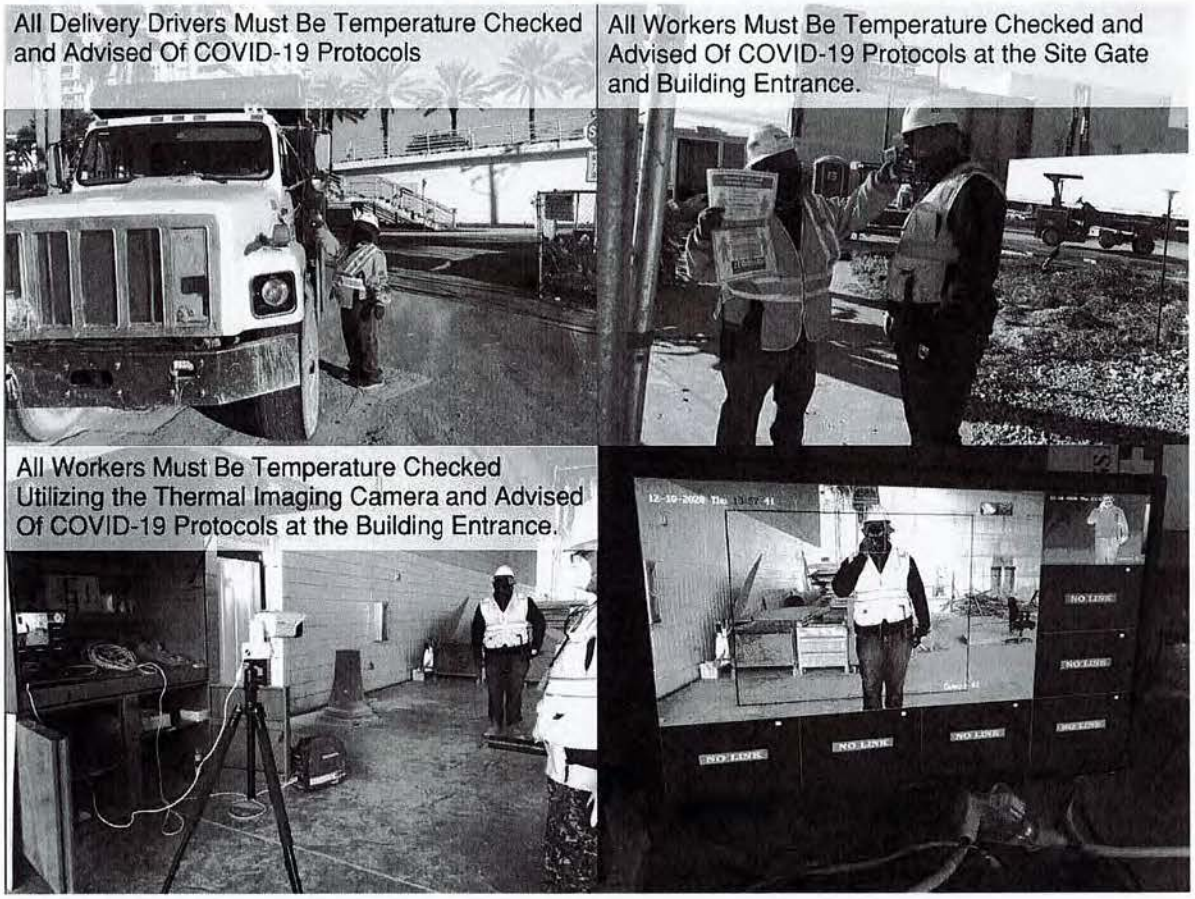
GUIDELINES FOR FIELD

1. All team members must communicate the plan daily
2. Checks are completed at the gate, entrance to the work, during morning safety huddles and periodic checks through the work day.
3. Plan must be updated based on the progress of the work/change conditions.
4. Constant recommunication of the plan / plan updates

Items to check daily in the field:

1. Signage at the gates, fence and within the project limits showing social distancing
2. We have a person at each entrance that stops every person to visually inspect to ensure they are not showing any of the main signs of the COVID-19 (fatigue, cough, breathlessness, etc..) and to educate them in English and Spanish what social distancing is. If someone shows any signs of COVID-19 per the CDC they are not allowed to enter the site.
3. Ensure team members walk around all day making sure that everyone is staying 6' away. There are some instances where the individuals do to safety reason do have to be within 6' but limited to actual need. Subs are to identify who on the teams are working near each other to track should one of them become symptoms

4. Cleaning team members must clean all surfaces non-stop all day (toilets, tables, handles, gates, etc)
5. All morning meeting are to be handled separately to ensure there are no large groups of people in one area. The individual groups stay at least 6 feet away from each other.
6. Document daily with pictures to show the separation
7. The helicopter flies over once a day to take pictures of the site to verify social distancing is happening. Ensure we are reviewing the pictures for social distancing
8. All AHJ's have assigned parking to ensure there is separation around them and they have clear access to the site without interacting with the workers
9. If someone is identified to be sick/potentially sick we will immediately stop work in the area and disinfect the tools, equipment and area the worker was working. Anyone working near the worker will be asked to leave and self-quarantine and must provide a note from a doctor before they return.
10. Every subcontractor must have a COVID-19 plan and monitor their plan
11. Leadership must walk once a week with the prime subs to ensure we are working together to address any concerns
12. We have added a safety person to the site for another set of eyes and to ensure we are working safely
13. We have increased the servicing schedule of the port-o-lets and hand wash stations to daily
14. Lunch and break areas are set-up to adhere to the 6ft separation
15. Self-serve from lunch truck has been eliminated. Designated person distributes contents.


All Delivery Drivers Must Be Temperature Checked and Advised Of COVID-19 Protocols
All Workers Must Be Temperature Checked and Advised Of COVID-19 Protocols at the Site Gate and Building Entrance.
All Workers Must Be Temperature Checked Utilizing the Thermal Imaging Camera and Advised Of COVID-19 Protocols at the Building Entrance.
NO LINK
NO LINK
NO LINK
NO LINK
NO LINK

Rain Fall Information for 2020

2020 Actual Rainfall

5 Year Actual Rainfall

	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Rainfall	5 YR Average
May-2015	0	0	0	0	0.73	0.13	0.03	0.35	0	0	0	0.03	0.32	0	0	0	0.12	0	0	0	0	0	0.03	0	0.15	0.01	0.04	0	0.03	0	0	1.97	
May-2016	0	0	0	1.86	0	0	0	0	0	0	0	0	0	0.13	0	0	0.12	0.62	0.06	0	0.11	0	0	0.51	0	0.04	0	1.18	0	0	0.02	4.65	
May-2017	0	0.2	0	0.16	0.18	0	0	0	0	0	0	0	0	0.36	0	0	0.08	0.25	0.23	0	0	0	0	0.86	0.5	0	0	0	0	0	0	2.82	5.712
May-2018	0	0	0.18	0.18	0.1	0.72	0	0	0	0	0	0	1.67	0.54	1.2	0	0.44	0.01	0.87	5.27	0.25	0	0.14	0.17	0.67	0.71	1.29	0.03	0.49	0	0.22	15.15	
May-2019	0.1	2.12	0.23	0	0.15	0.35	0	0	0	0	0.04	0	0.37	0	0.18	0.15	0	0	0	0.28	0	0	0	0	0	0	0	0	0	0	0	3.97	
Daily Average	0.02	0.46	0.08	0.44	0.23	0.24	0.01	0.07	0.00	0.00	0.01	0.01	0.47	0.21	0.28	0.03	0.15	0.18	0.23	1.11	0.07	0.00	0.03	0.31	0.26	0.15	0.27	0.24	0.10	0.00	0.05		
May-2020	0	0	0	0	0	0	0	0	0	0.23	0.01	0	0	0.01	1.04	1.31	0.1	3.31	0.20	0.06	0.15	0.2	0.05	3.65	4.03	1.2	0.02	0	0	0	0	16.07	

	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Rainfall	5 YR Average
Jul-2015	0	0	0	0	0	0.18	0.03	0	0	0	0	0	0.19	0.01	0.04	0.21	0.01	0.65	0	0.02	0	0.3	0	0	1.05	0	0.01	0	0	0	0.33	3.03	
Jul-2016	0.3	0	0	0	0	0	0	0	0	0	0	0	0.27	0.22	0.06	0	0.48	0	0	0	0.13	0	0	0.04	0	0.54	0	0	0.33	0	0.04	2.41	
Jul-2017	0	0.53	0	0	0.08	0	0	0.15	0	0.48	0.16	0.37	0.5	0.01	0	0.24	0.11	0	0.15	0.23	0.97	0	0	0	0	0	0	0	0.15	1.51	0.16	5.8	3.872
Jul-2018	0.11	0	0.59	0.01	0	0	0	0	0	0.59	0	0	0	0	0.01	0	0	0.9	0	0.2	0	0.69	0.02	0.01	0.19	0	0.23	0.13	0.04	0.78	0.08	4.58	
Jul-2019	0	0	0	0	0.22	0.07	0.23	0.72	0	0	0.13	0.03	0	0	0	0	0.04	0.06	0	0.28	0.02	0	0.08	0.19	0.5	0.15	0.07	0	0	0.45	0.3	3.54	
Daily Average	0.08	0.11	0.12	0.00	0.06	0.05	0.05	0.17	0.00	0.21	0.06	0.08	0.19	0.05	0.02	0.09	0.13	0.32	0.03	0.15	0.22	0.20	0.02	0.05	0.35	0.14	0.06	0.03	0.10	0.55	0.18		
Jul-2020	0.01	0.09	0	0.14	1.32	0.16	0	0.19	0	0.01	0.37	0	0.37	0.22	0	0	0.96	0.85	0	0.18	0.56	1.63	0.68	0.47	0.01	0.01	0	0	0	0	0	8.21	

	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Rainfall	5 YR Average
Aug-2015	0	0.69	0	0	0	0	0	0.06	0.16	0.01	0.05	0	0.2	0.07	0.93	0.88	0	0	0	0	0	0	0	0	0.12	1.71	0.03	0	0.12	0.72	0	5.75	
Aug-2016	0.55	1.17	0.08	0	0	0.78	0.17	0.31	0.01	0	0	0.55	0.04	0.11	0.05	0.34	0.12	0.04	0	0	0	0	0	0.39	0.12	0.06	0.19	0.09	0.19	1.37	0.44	7.17	
Aug-2017	0.15	0	0	0	0	0.32	0	0.02	0	3.43	0.68	0	0	0	0	0	0	0	0	0.18	0.04	0.14	0.01	2.81	2.56	1.05	0.82	2.33	0	0	0	14.54	8.942
Aug-2018	0.02	0.01	0	0.48	0.13	0.01	0	0	0	0.31	0.02	0	0.76	0	0.01	0	0	0.2	0.19	0	0	0.02	0.73	0	1.14	0.03	0	0.27	0.29	0.51	0.14	5.27	
Aug-2019	1.02	0.86	0.18	2.36	0.2	0.08	0.1	0.34	0.05	0	0.43	0.03	0.51	0.29	0.49	0	0.27	0	0	0.1	0	0.11	0.69	0.47	0.05	0	1.95	0.01	0.12	0.77	0.5	11.98	
Daily Average	0.35	0.55	0.05	0.57	0.07	0.24	0.05	0.15	0.04	0.75	0.24	0.12	0.30	0.09	0.30	0.24	0.08	0.05	0.04	0.06	0.01	0.05	0.29	0.73	0.80	0.57	0.60	0.54	0.14	0.67	0.22		
Aug-2020	3.25	0.31	1.18	3.93	0.71	0.84	0	0	0	0	0	0	0	0	3.09	0	0.58	0	1.27	0	0	0.13	0.04	0.41	0	0.01	0	0	0.05	0.58	1.39	13.72	

	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Total Rainfall	5 YR Average
Sep-2015	0.1	0.1	0	1.24	0.39	0.01	0.17	0.08	0	0	0.01	1.2	0.75	0	0.31	1.46	1.27	0.83	0.22	0.01	0.1	1.44	0	0.07	0	0.01	0	0	0.33	0		10.1	
Sep-2016	0	0	0	0	0.18	0	0.12	0.96	0	0	0.02	0.11	0.29	0	0	0	0	0	0.75	0.45	0	0.01	0	0.03	0	0	1.46	0.2	0.04	0.15		4.77	
Sep-2017	0	0.02	0	0.08	0	0.52	0	0.01	2.68	4.3	0	0	0	0	0	0.07	0	0	0.05	0	0.22	0.61	0	2.31	0	0.49	0.01	0.05	0.53	0		11.95	6.738
Sep-2018	0.09	2.08	1.71	0.21	0.15	0.04	0.28	0	0.22	0	0	0	0	0.05	0.03	0	0.09	0	0.02	0	0	0	0	0.01	0	0	0	0	0.03	0.53		5.54	
Sep-2019	0.05	0.75	0.1	0	0	0	0	0	0	0	0	0.07	0.22	0.02	0.02	0	0	0	0	0.02	0.05	0	0	0	0	0	0	0	0.03	0		1.33	
Daily Average	0.05	0.59	0.36	0.31	0.14	0.11	0.11	0.21	0.58	0.86	0.01	0.28	0.25	0.01	0.07	0.31	0.27	0.17	0.21	0.10	0.07	0.41	0.00	0.48	0.00	0.10	0.29	0.05	0.19	0.14			
Sep-2020	0	0	0	0	0	0.4	0	0.01	0.1	0.21	0.08	0.21	0	0.07	0	0	0	0	0	0	4.3	0	0	0.03	3.12	5.01	0	0	0.1	3.89		22.65	

	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Rainfall	5 YR Average
Oct-2015	0	0	0	0	0.13	0.03	0.03	0	0	0.01	0	0	0.09	0	0	0	0	0.18	0	0	0	0	0.09	0.38	0.74	0	0.02	0.14	0.87	0	0	2.71	
Oct-2016	0.26	0.06	0.63	0	0	1.19	0	0	0	0	0	0.03	0.12	0	0.54	0.24	0	0	0	0.14	0	0	0	0	0	0.01	0.01	0	0.03	0.06	0	3.32	
Oct-2017	0	0.2	0.72	0.28	0.46	0	0.01	0	0.09	0.08	0.05	0.5	0.1	0	0	0.04	0	0.32	0.21	0	0.28	0	0	0.49	0.2	0	0	2.18	0.79	0	0	7	3.654
Oct-2018	0.43	0.13	0	0.01	0	0.14	0.06	0.09	0.03	0.05	1.18	0	0	0	0.03	0	0	0	0.02	0	0	0.06	0	0	0	0	0	0	0	0	0	2.23	
Oct-2019	0.04	0.03	0.02	0	0.03	0.13	1.1	0.1	0.04	0	0.87	0	0	0	0	0	0	0	0.16	0	0	0	0	0	0.06	0.39	0	0	0	0.04	0	3.01	
Daily Average	0.15	0.08	0.27	0.06	0.12	0.30	0.24	0.04	0.03	0.03	0.42	0.11	0.06	0.00	0.11	0.06	0.00	0.10	0.08	0.03	0.06	0.01	0.02	0.17	0.20	0.08	0.01	0.46	0.34	0.02	0.00		
Oct-2020	3.21	0.69	1.93	0	0	0.25	0	0	0	0.87	0.13	0.31	0	0	0	0.17	0	0	0.16	0.01	0.31	1.16	0	0.05	4.61	0	0	0	0.04	0	0.34	20.42	

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		Total Rainfall	5 YR Average
Nov-2015	0	0	0	0.07	0.01	0.52	0	0.03	0	0	0	0	0.56	0.38	0.19	0.78	0.06	0	0	0.04	0.87	0.55	0	0	0.09	0	0	0	0	0.73		4.88	
Nov-2016	0	0	0	0.09	0.34	0.01	0	0	0	0	0	0	0	0	0.42	0	0	0	0	0	0	0	0.02	0.02	0.01	0	0	0.07	0	0.06		1.04	
Nov-2017	0	0	0.12	0.14	0	0.01	0	0.02	0	0.4	0.15	0.07	0.01	0.04	0.54	0.09	0	0	0	0	1.85	0.02	0.46	0	0	0	0.06	0.53	1.25	0		5.76	4.042
Nov-2018	0	0.01	0.01	0.26	0	0	0.02	0	0.01	0.05	1.42	0.48	0.12	0.04	0.07	0	0	0	0	0.07	0	0.04	0	0	0	0	0	0	0	0		2.6	
Nov-2019	0	0	0.67	0.07	0.04	0	0	0.02	0.28	0.07	0	0	1.36	2.25	0.57	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0		5.93	
Daily Average	0.00	0.00	0.16	0.13	0.08	0.11	0.00	0.01	0.06	0.10	0.31	0.11	0.49	0.54	0.36	0.17	0.01	0.00	0.00	0.02	0.54	0.12	0.10	0.04	0.02	0.00	0.01	0.12	0.25	0.16			
Nov-2020	0.05	0	0	0	0.66	0.75	1.58	3.41	0.07	0	0.17	0.48	0	3.19	0.03	0	0	0	0	0.05	0	0.41	0	0	0	0	0	0	0	0		11.11	

The five year average for the months listed above is 33 inches. The actual rainfall during the months listed above was 92.21 inches. There were sixty more inches of rain in 2020 than the five year average.

8.9 Rain Fall Information for 2020

NV5

December 17, 2020

Mr. Thomas Stedem
Senior Project Manager
Balfour Beatty
1799 SE 17th Street
Fort Lauderdale, Florida 33316

Re: Report of Noise Level Estimation – Additional Hours
Broward County Convention Center
1950 Eisenhower Boulevard
Fort Lauderdale, Florida
Project 16698
Proposal 20-0911

Dear Mr. Stedem:

NV5 Inc. submits this letter in fulfillment of the requested scope of service. NV5 has been providing Noise Monitoring Summary reports. This report provides a summary of the information collected since the previous report.

The project site is located at 1950 Eisenhower Boulevard. In October 2020, a monitoring unit was placed at the southeast corner of the building at 1799 SE 17th Street, Fort Lauderdale, FL.

Noise Monitoring starting in October, 2020 and is currently ongoing. This report addresses the information recorded from October 31, 2020 to December 15, 2020.

PURPOSE

The purpose of our services on this project were to: provide a review of noise levels that could be expected at adjacent condominium property line north of the convention center for construction at hours outside of those outlined within the City of Fort Lauderdale noise regulations.

NOISE MONITORING EQUIPMENT

NV5, in conjunction with Geosonics, provided noise monitoring equipment to the project. For this project a Re:mote Noise Level Meter operated at the southeast corner of the building at 1799 SE 17th Street, Fort Lauderdale, FL. Normally a noise limit is provided. We understand that a specific limit for noise was not provided for this project.

Remote Equipment

NV5 provided Re:mote Noise Level Meter monitoring equipment to the project. The monitoring units run daily providing the summary records that are transmitted and reported daily to an online site. The unit

transmits the data to us daily and we review the day's noise levels and cite the maximum value recorded each day.

The reports online summarize the noise levels a day at a time from the instrument location. They are histogram format or vertical bars of the vibration levels recorded during the day.

REVIEW OF NOISE MONITORING DATA

Based on the attached report, noise limits of the City of Ft. Lauderdale that are represented by 60 dBA during day time hours and 50 dBA during night time hours, can't be met due to the fact that the noise from the adjacent street and associated community produce levels in the range of 60-70 dBA. These levels were recorded during the above mentioned period consistently and we highly recommends these levels to be considered as acceptable ambient levels of noise for this project only.

Attached to this letter is the summary of the Re:mote noise data collected for the time period of October 31, 2020 through December 15, 2020 and estimates that the noise levels during extended hours projected to the north properties would not be in excess of the noise regulations of the City.

Complete copies of the data for each day have been available online.

CLOSURE

We appreciate the opportunity to be of service. In the event you have questions about information in this report, please contact the undersigned.

Sincerely,
NV5 Inc.

Glenn Massinger
Project Manager

Eric J. Stern, P.E.
Vice President
Florida Registration No. 57604

ERIC J. STERN
LICENSE
No. 57604
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Attachments: Re:mote Unit Noise Summary Report (11 pages)
2 Copies to Addressee via U.S. Mail
Copy to NV5 File

GeoSonics

Suite 4
6900 S. W. 21st Court
Davie, FL 33317

Phone 954.424.2101
Fax 954.424.2104

December 18, 2020

Glenn Massinger, Project Manager
NV5
14486 Commerce Way
Miami Lakes FL 33016

Re: Broward Convention Center – Noise Level Estimation – Additional Hours

Dear Mr. Massinger:

Per your request I am providing a review of noise levels that could be expected at the adjacent condominium property line to the north of the convention center for construction at hours outside of those outlined within the City of Fort Lauderdale noise regulations. Construction is currently operating at hours of 8:00 am to 7:00 pm. Due to time requirements on the project the proposed working hours will be 7:00 am to 10:00 pm the following day. As noise level monitoring has been completed with a Re:mote™ Noise Level Meter operated at the southeast corner of the building at 1799 SE 17th Street, Fort Lauderdale, FL this letter covers our opinion on the noise levels expected.

Noise is measured at ground level at the "receiving land use" property line according to the Fort Lauderdale Noise Code. With the unit in its existing location it is on the ground level with a microphone approximately 4 – 5' off the ground consistent with how noise is to be measured. The noise is measured in a line consistent with the property line / building area of the structures north of SW 17th Street. The levels measured at this point would be consistent with those for comparison to the City code. The noise levels measured from the installation on October 31 through December 15 have been considered.

The extended hours that would be used in the upcoming work would be primarily for steel erection located at the northwest corner of the site extending south and parallel with the existing convention center. The closest area to the condominium to the north is approximately 570 feet. Associated with this work would be the use of a forklift that generates 85 dBA at a distance of 50 feet. This level is the estimated maximum and calculated at the closest point of the operation. As this is mobile equipment the peak level only occurs when the forklift would be in that closest area. At other times since the project would work south to north the levels would be consistently lower.

In order to determine compliance with the City regulations a calculation of noise at the adjacent properties is necessary. Noise reduces with distance and using a standard calculation noise may be predicted based upon an initial level and

distance. The use of the inverse square law allows predication in that a sound level (intensity) will drop off as distance increases. This law which has been demonstrated by evidence and actual measurement calculates a six (6) decibel drop with a doubling of the distance in feet. Considering the 85 decibel level for the forklift at 570 feet noise would reduce to 64 dBA.

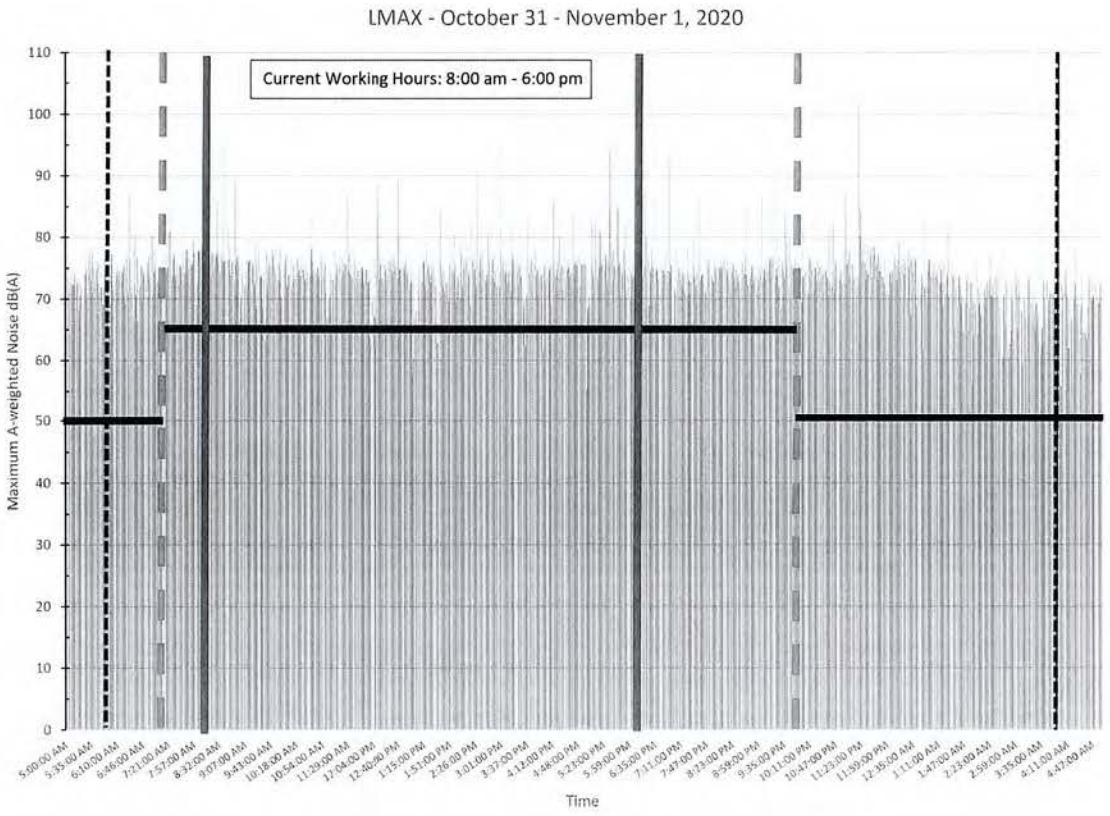
The predicted level is presuming no uninterrupted path for the sound and that no existing levels are considered. In this case the elevated section of the SE 17th Street Bridge over the Intracoastal Waterway would provide shielding and reduced noise at the property line. However, the largest reduction of noise would be the shadowing of any noise at the Convention Center by existing noise from the community and traffic on SE 17th Street.

Measured levels from October 31, 2020 through December 16, 2020 show that noise from the adjacent street area and associated community produce levels that do not regularly go below 60-65 decibels up to 70 decibels. This data shows a solid noise level that exists over this period consistently. This may be considered as the "ambient" level of noise. Graphs are attached following the conclusion of this letter that show data from the noise meter for a series of dates which also identify City time frames and working shifts. Also shown are two graphs showing overall noise levels as the one minute maximum levels from October 28 through December 16, 2020. As the noise levels are 60 – 65 decibels at the minimum the 64 dBA generated by the forklift would be obscured by community ambient levels. Also, considering the noise levels occur 24-hours over this range of noise, the 60 dBA daytime and 50 dBA nighttime noise limits of the City cannot be met due to ambient conditions. In our opinion the noise levels projected to the north properties would not be in excess of the noise regulations of the City.

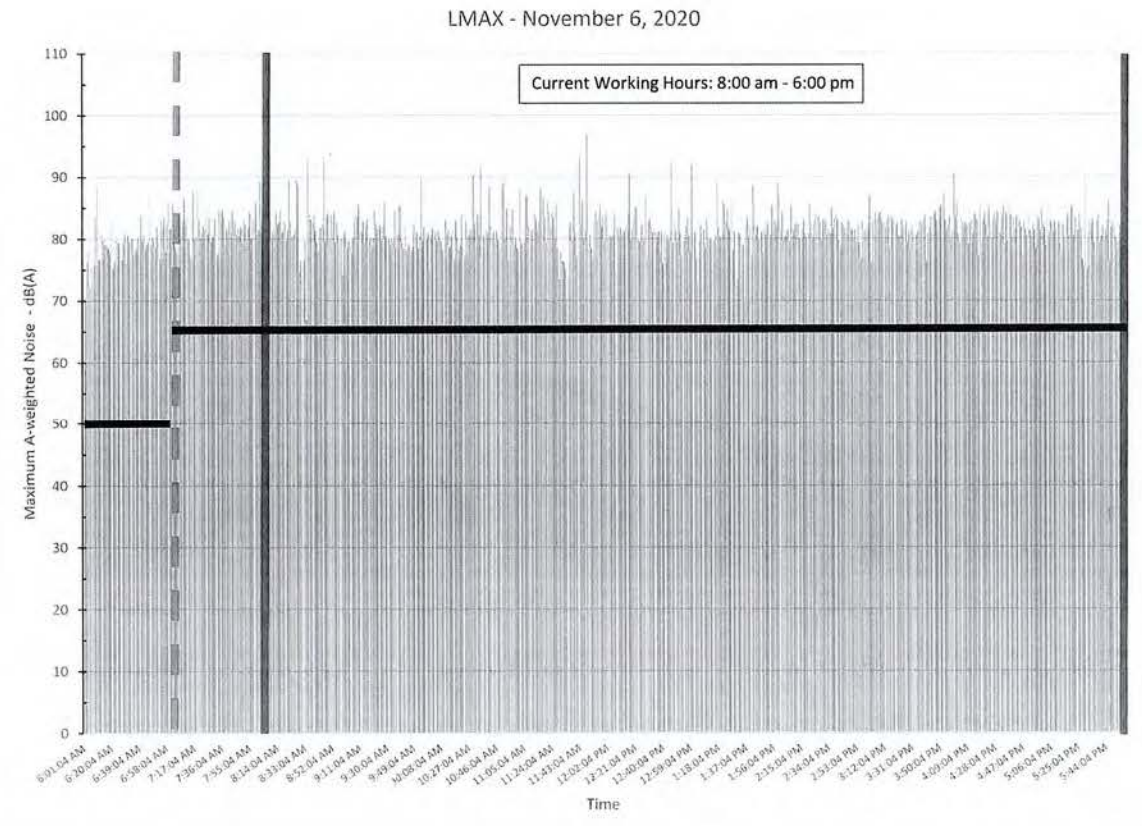
If you have any questions please feel free to contact me.

Sincerely,

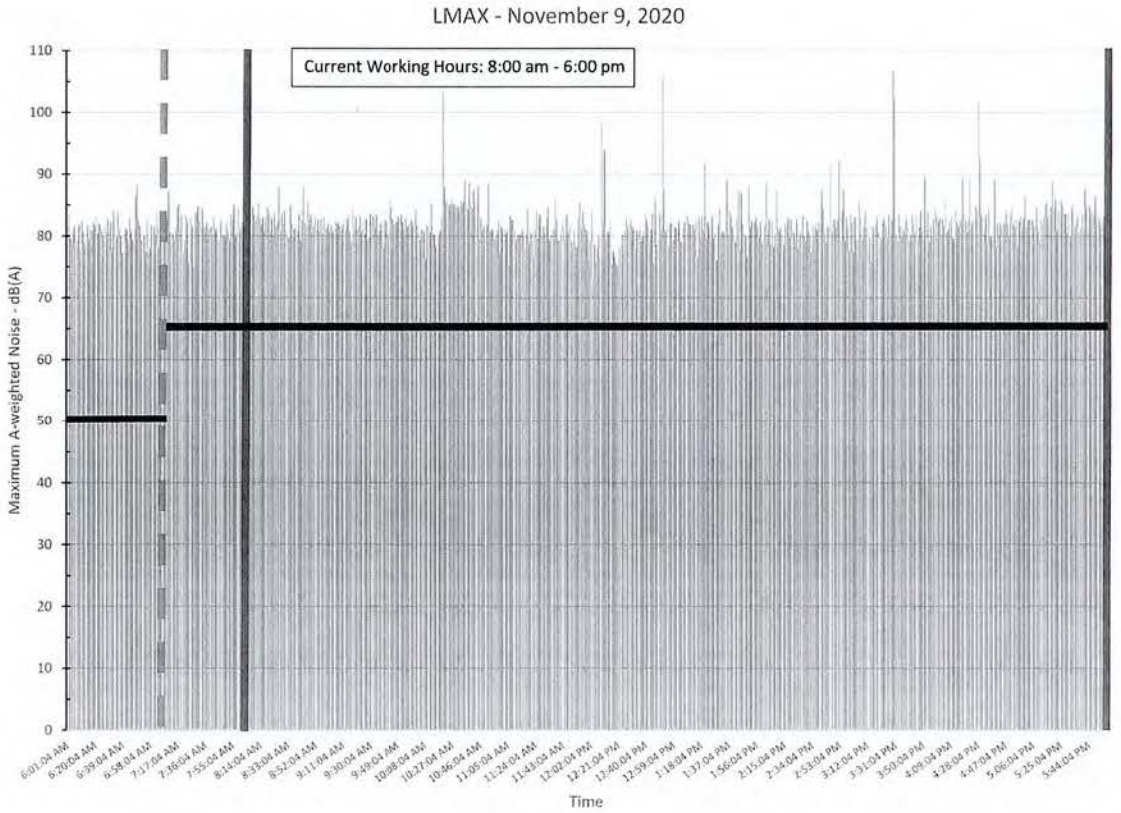
Jeffrey A. Straw
Vice President and Area Manager



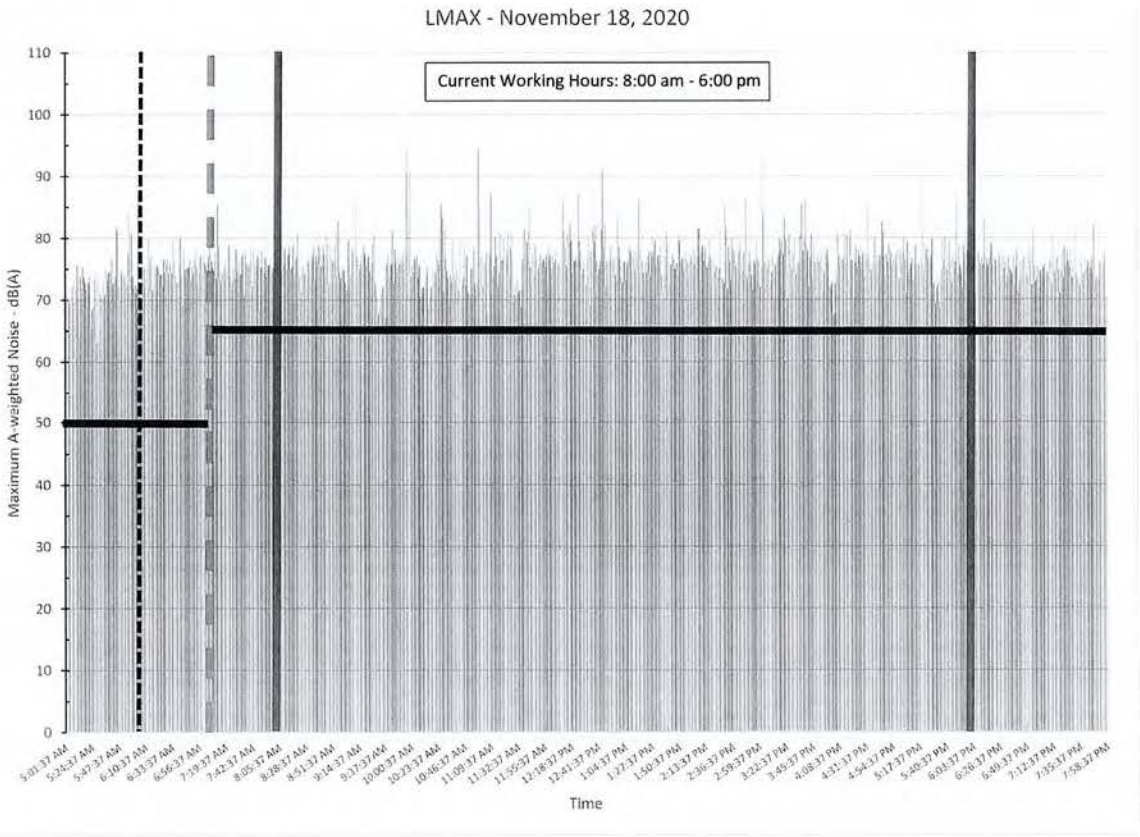
8.10 NV5 Signed and Sealed Engineered Calculation



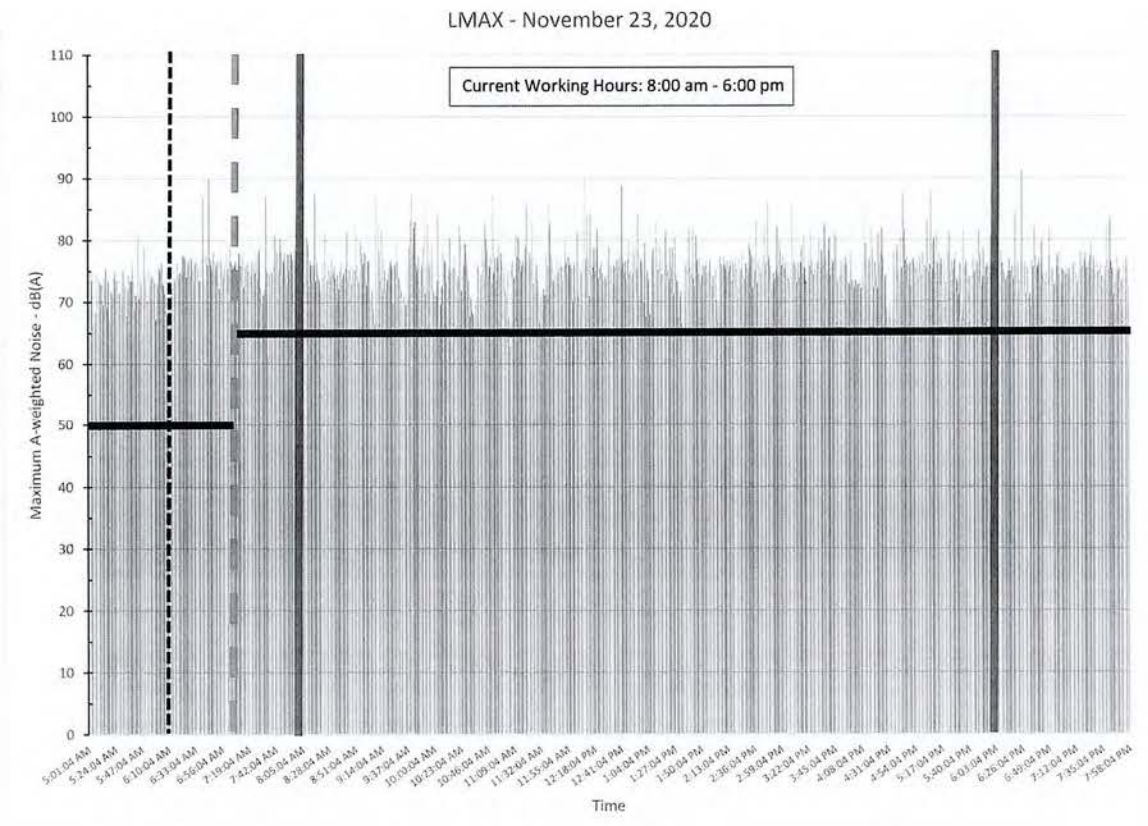
8.10 NV5 Signed and Sealed Engineered Calculation



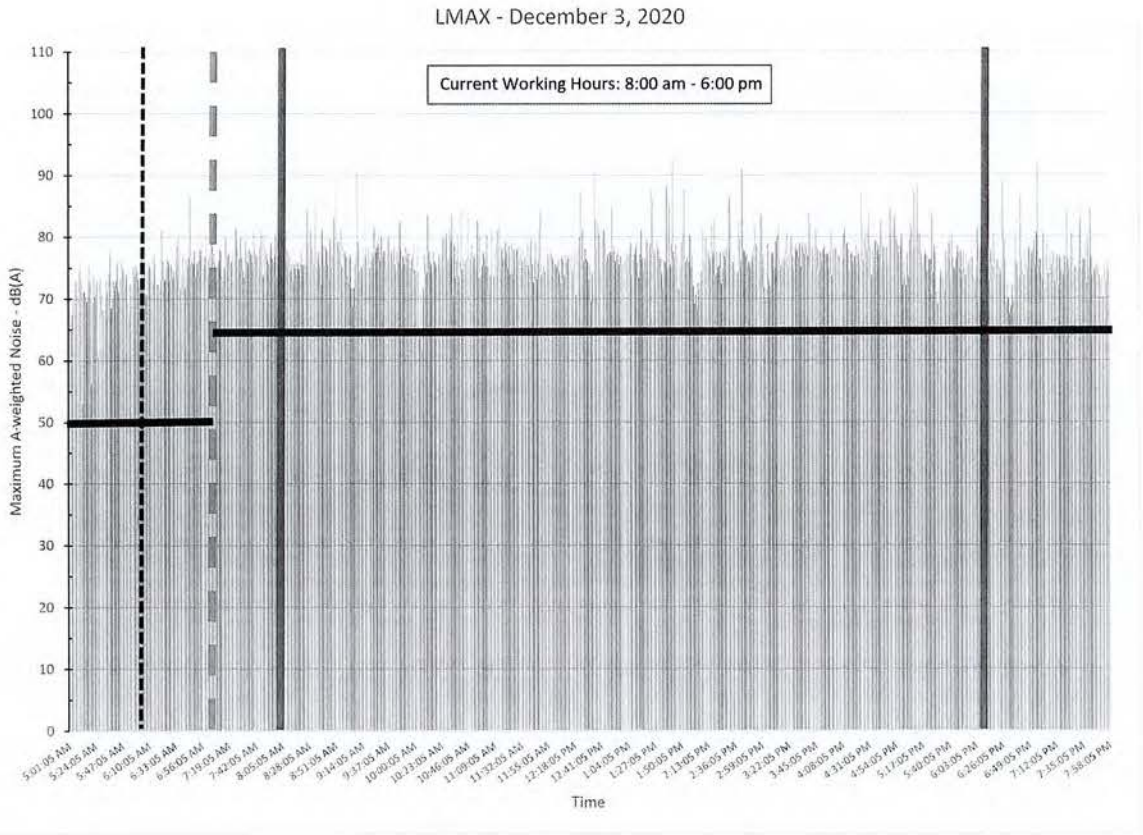
8.10 NV5 Signed and Sealed Engineered Calculation



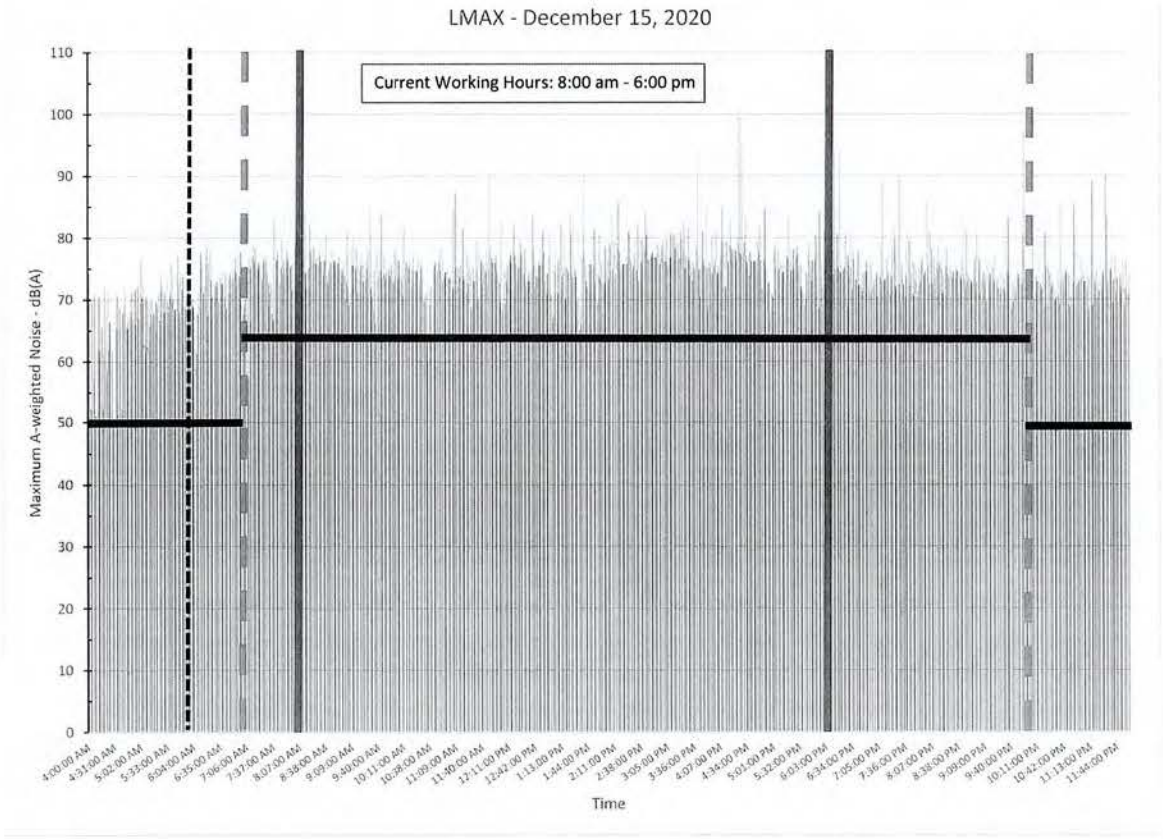
8.10 NV5 Signed and Sealed Engineered Calculation



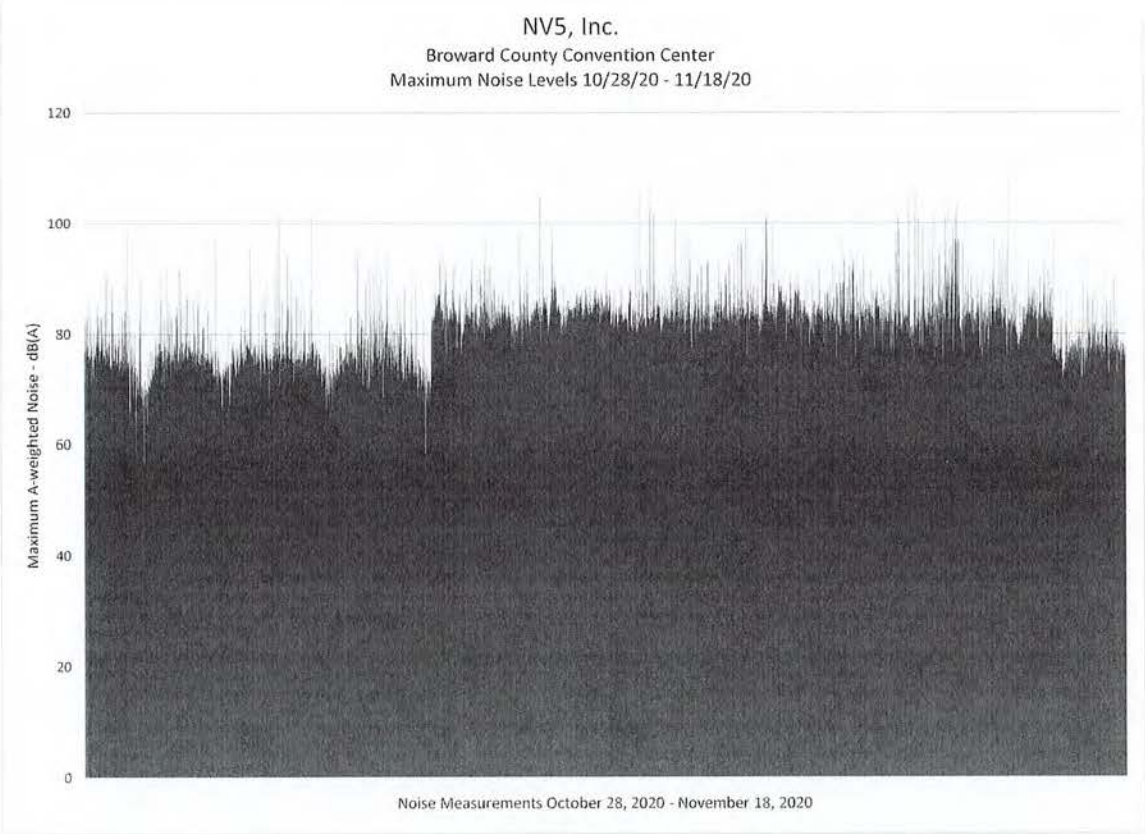
8.10 NV5 Signed and Sealed Engineered Calculation



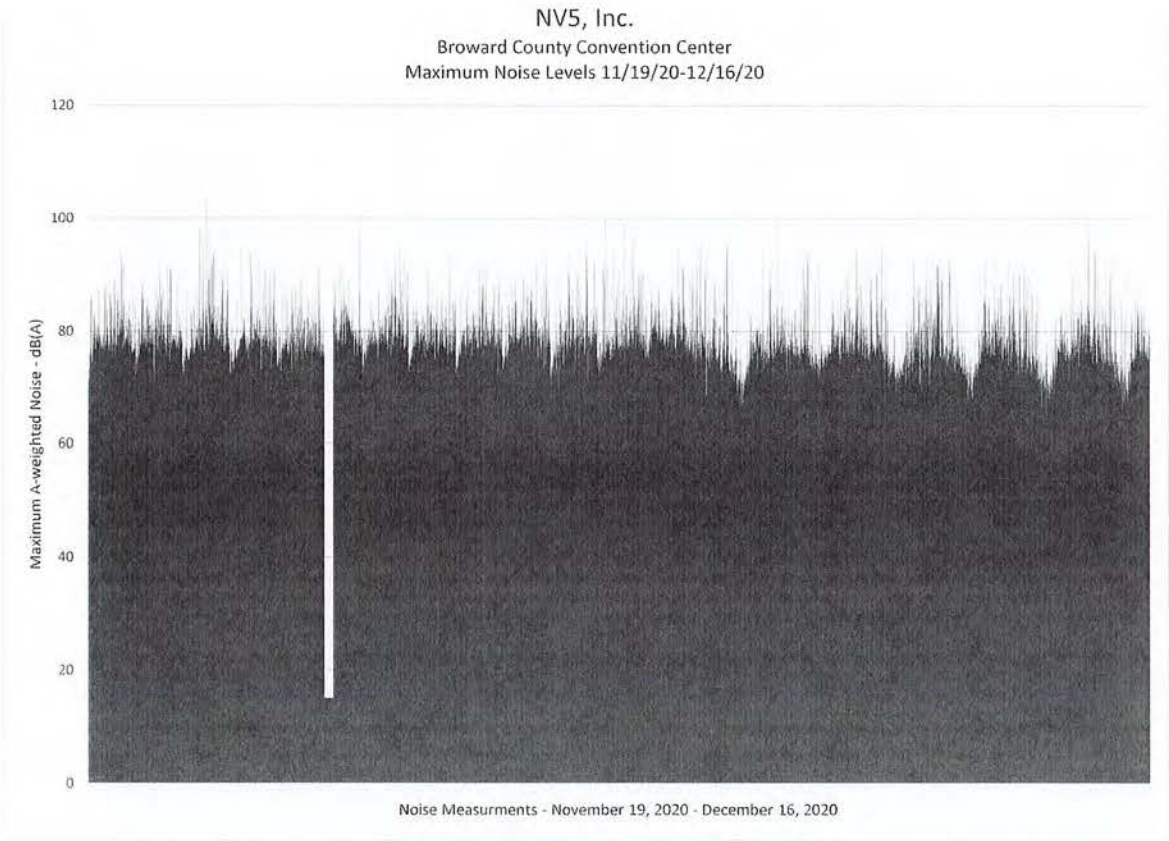
8.10 NV5 Signed and Sealed Engineered Calculation



8.10 NV5 Signed and Sealed Engineered Calculation



8.10 NV5 Signed and Sealed Engineered Calculation



8.10 NV5 Signed and Sealed Engineered Calculation