



Community Board 6
April 5, 2012





## What has happened since Nov 2011 meeting?

- Removed all contractor containers from sidewalk
- Additional repairs to sidewalks and road including repairs to slick line gratings
- Continued tunnel lining and concreting work
- Recommenced drill and blast activity in neighborhood
- Continued to implement mitigation measures during drill and blast events
- Re-installed Union League Club's northern flag pole





### Use of 37th Street and Park Avenue

#### Access is critical!

## **Continuation of Temporary Construction Access**

- Personnel Access
- Materials Access
- Concrete Delivery

### **Current Contractor Schedule**

**End date: November 2012** 

### **Future Contractor Schedule**

End date: 4th Quarter 2014





#### **Contractor's Site Access - Current Needs**

#### **Personnel Access**

- Pedestrian access available at all times
- Guard at site during all working hours

#### **Deliveries**

- Deliveries 8am to 7pm (weekdays only)
- 45-ton crane has been used to deliver material to tunnel level and removed when not needed on consecutive days
- No materials to be stored on sidewalk during non-working hours

## **Concrete Operation**

- Concrete deliveries will not begin at site before 8am
- Pours will consist of 5 to 25 concrete trucks per day depending on volume of concrete needed during each pour event
- To prevent trucks "bunching" at site, radio communications will be used to time truck arrivals and departures
- Material deliveries will be coordinated with concrete pour events





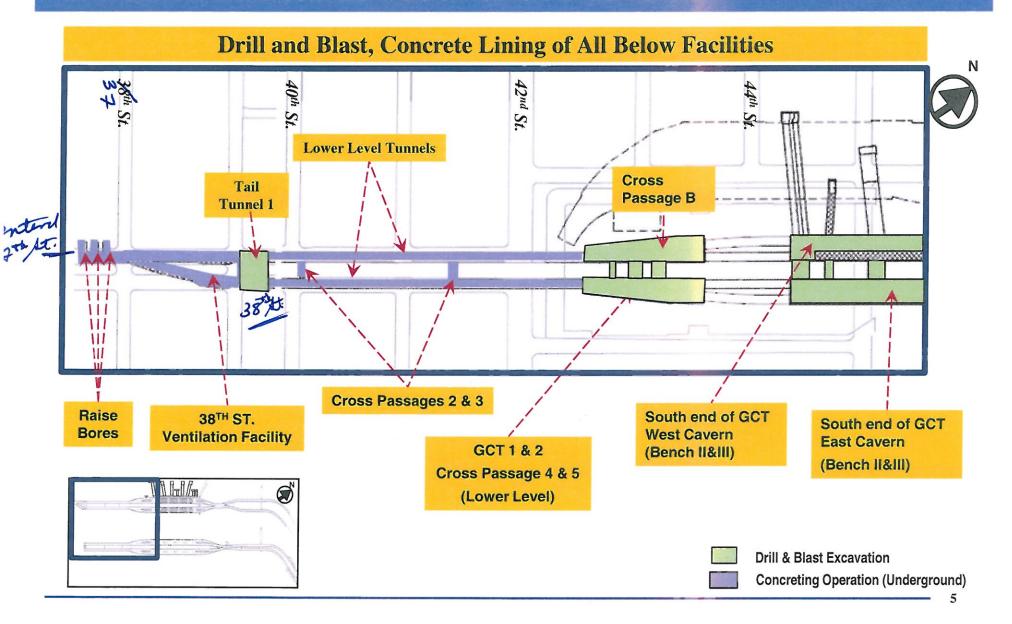
## **Drill and Blast and Concreting Activity**

- Blast activity within vicinity of 37<sup>th</sup> St and Park Ave recommenced week of March 19th 2012
- Continuation of blasting north along alignment
- Continuation of use of shafts for concreting activity





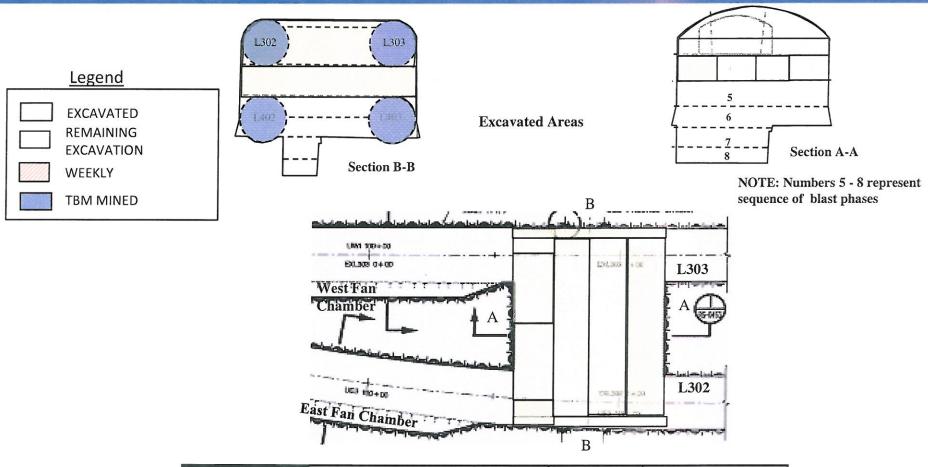
#### **Manhattan Structures South of GCT Caverns**







## TT1 Bench Excavation Progress (As of 3/30/12)



Weekl	Qua	ntity (Bank Cubic Ya	ırds)	% Complete	Expected Completion		
	Weekly	To Date	Total	% Complete			
TT1 Benches 2 & 3	160	960	4,196	23%	June 2012		





### Contractor's Site Access - Future Needs

- · Post November 2012 DI Contractor done, new contractor to commin .
  - New contractor will still require some access for employees, equipment deliveries but greatly diminished
  - Will make greater use of the completed access shaft at 44<sup>th</sup> Street Vent Facility where bigger shaft and gantry crane will be
  - Concrete pours at similar rate and schedule will continue at 37<sup>th</sup> Street location
- Work Elements and Schedule 37 44
  - Final lining of bore shafts, chambers etc.: 3<sup>rd</sup> Qtr 2014 4<sup>th</sup> Qtr 2014
  - Final utility upgrades (water, sewer, electrical): 4th Qtr 2014
  - Full street and sidewalk restoration, installation of heel-friendly gratings: 4<sup>th</sup> Qtr 2014

(see graph on following slide)





## **Work Schedule**

Description	2012			2013			2014				2015		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Current/Forecast Status - As of 3/1/2012													
Tail Tunnel Excavation Work (1)													
TT1 Benching (Excavation)								in the second se					
Concreting Work Tail Tunnel (2)													
L402 Concrete													
L403 Concrete		i											
Tail Tunnel Concrete work (Fan													
Chambers, Air Wye & TT1)													
Final Lining Raise Bores (Shafts &		1											
Chambers)		1	100										
Street Work @ Surface (2)									3 <b>413-474</b>			***************************************	
Utility Relocation & Reinstallation													
Street & Sidewalk Restoration							1			and the state of t			

Drill and Blast Excavation - Underground

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Drill and Blast Excavation - Underground

(2) Work to be completed by next contract (CM012) Schedule for CM012 - Manhattan Structures 2 and Facilities Fit-out work is based on award of this contract occurring in the 3<sup>rd</sup> Qtr 2013. Schedule is also based on design estimate and contractor schedule may differ.





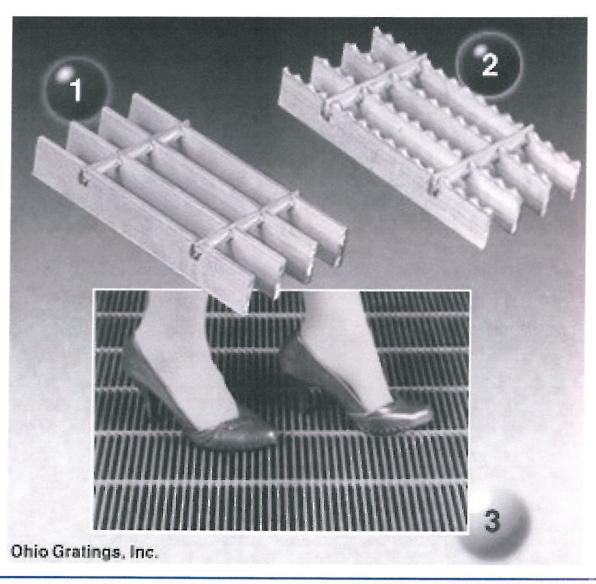
#### **Planned Schedule**

- Complete all drill and blast activity for 38th Street Vent Facility by June 2012 under current contract
- Award CM012 Manhattan Structures II and Facilities Fitout in 3<sup>rd</sup> Quarter 2012
- CM012 will utilize shafts and completely restore street and sidewalk in  $4^{th}$  Qtr 2014





## **Example of Heel Friendly Grating**

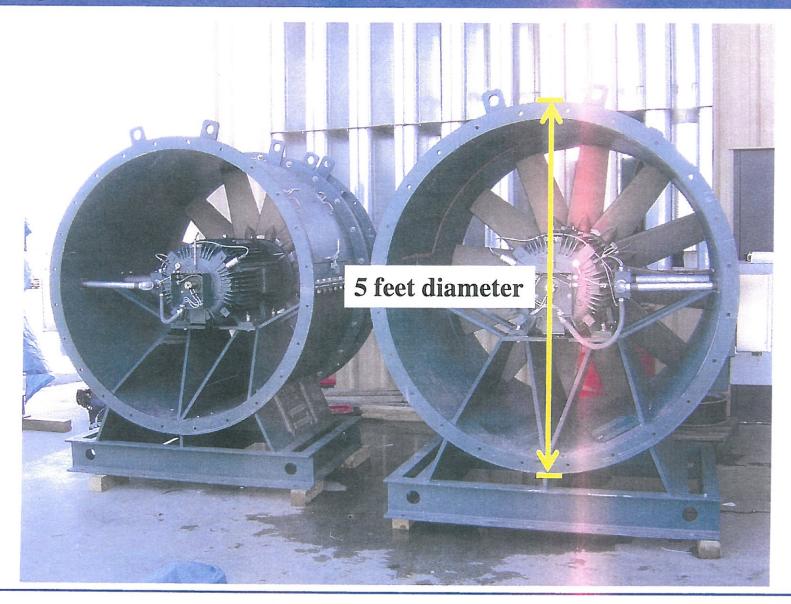


grates will takeup approx 13 of sidewalks. Rul friendly & plip resistant.





# **Example of Ventilation Fans**



38th/tt.