

WASHINGTON
UNION STATION
STATION EXPANSION

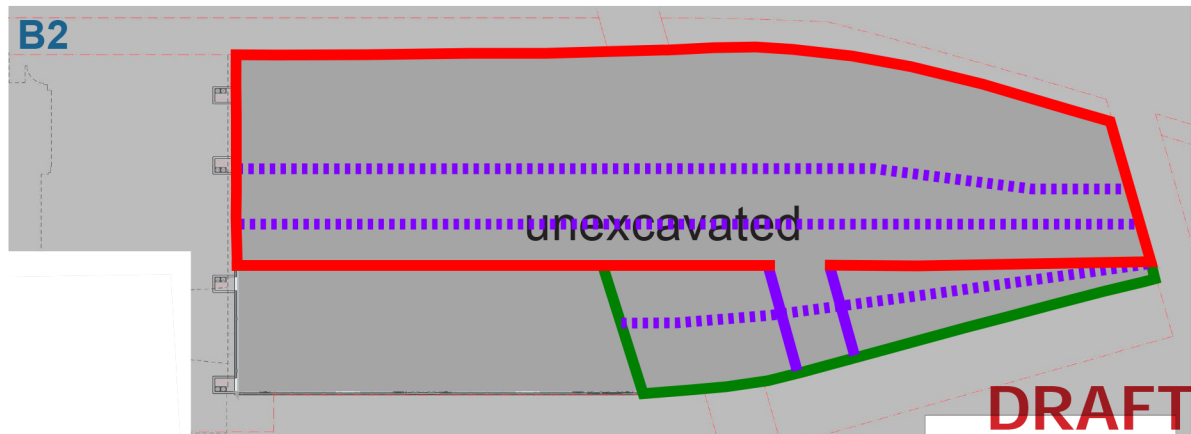
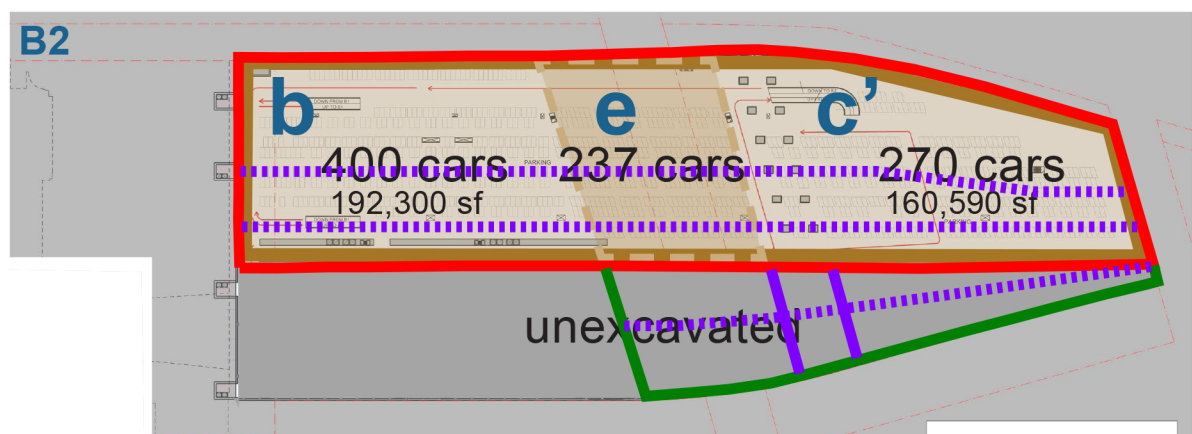
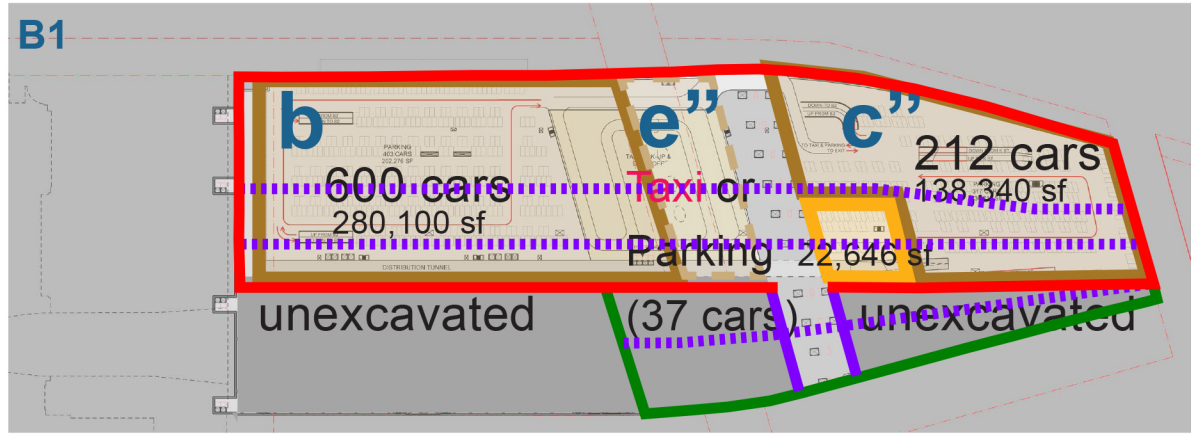
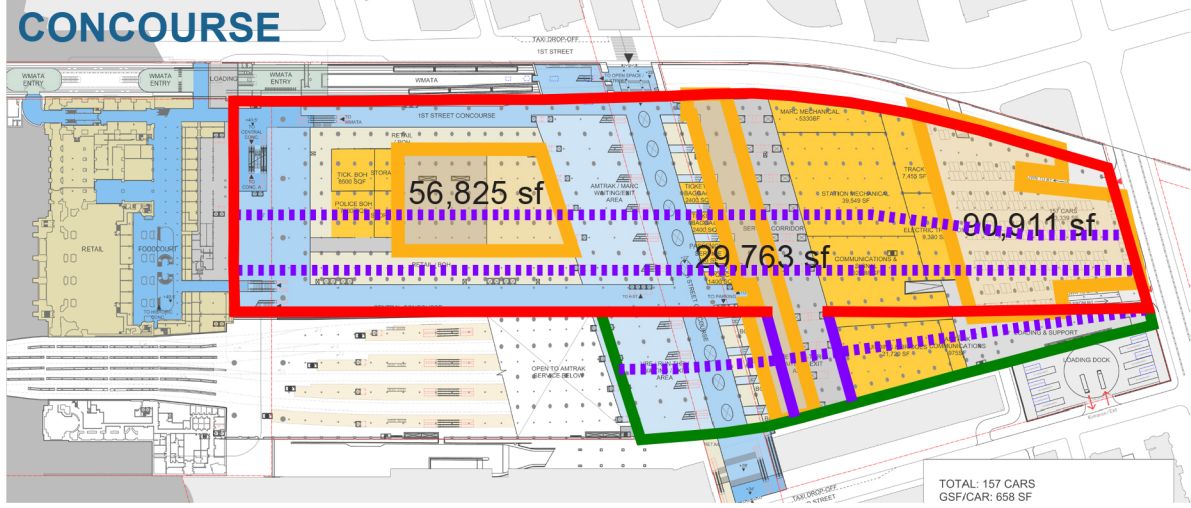
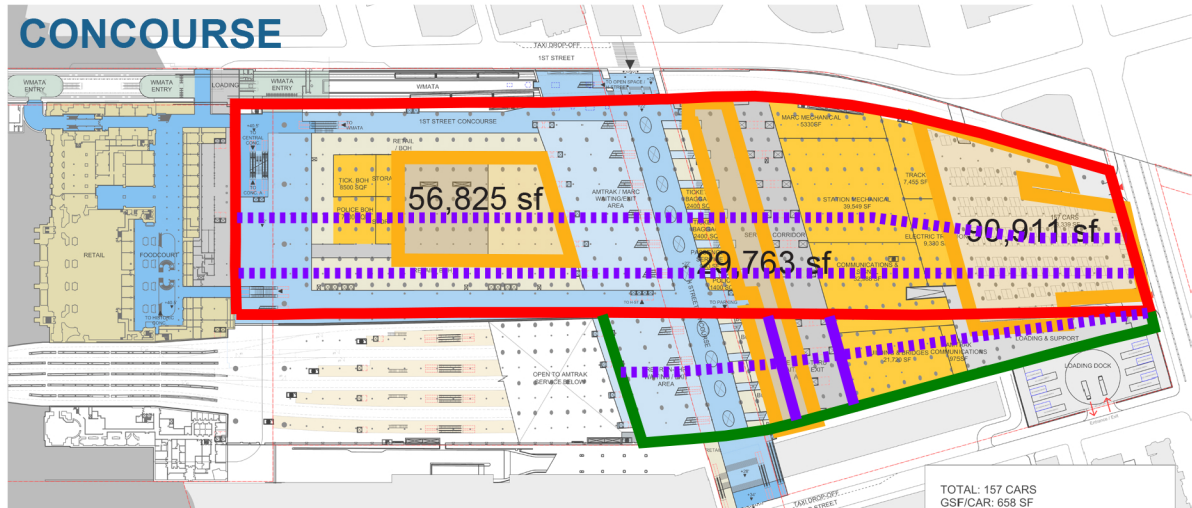
Draft Environmental Impact Statement for Washington
Union Station Expansion Project

Appendix A7 – Support of Excavation (SOE) Diagrams



U.S. Department of Transportation
Federal Railroad Administration

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General Notes:
 Existing Ground Elev = 52 FT
 Conc. Excavation Elev = 20 FT
 B1 Excavation Elev = 3 FT
 B2 Excavation Elev = -10 FT
 Water = 17 FT
 ——— SOE Permanent Condition
 - - - - - SOE for Phasing

Slurry Wall to Bedrock
 +/- 210 FT Around the Stub End
 Tracks

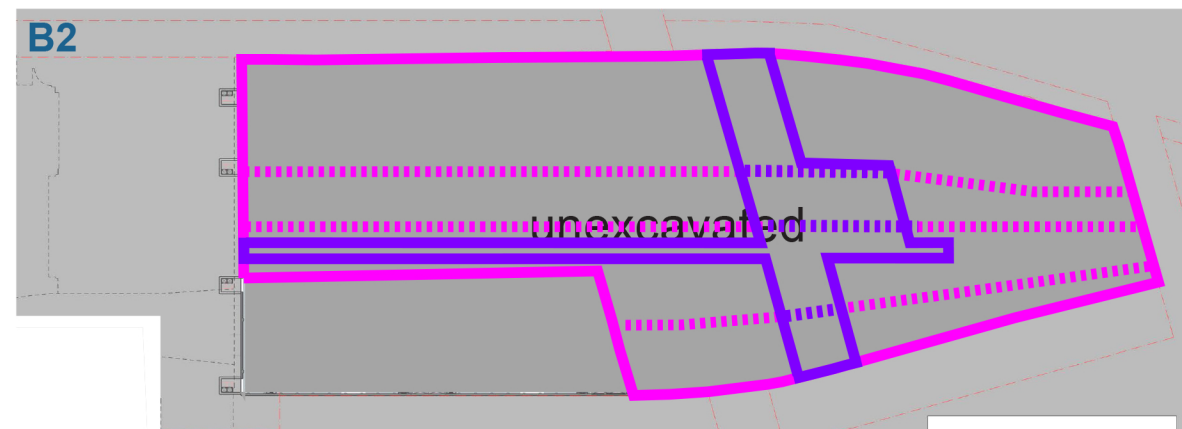
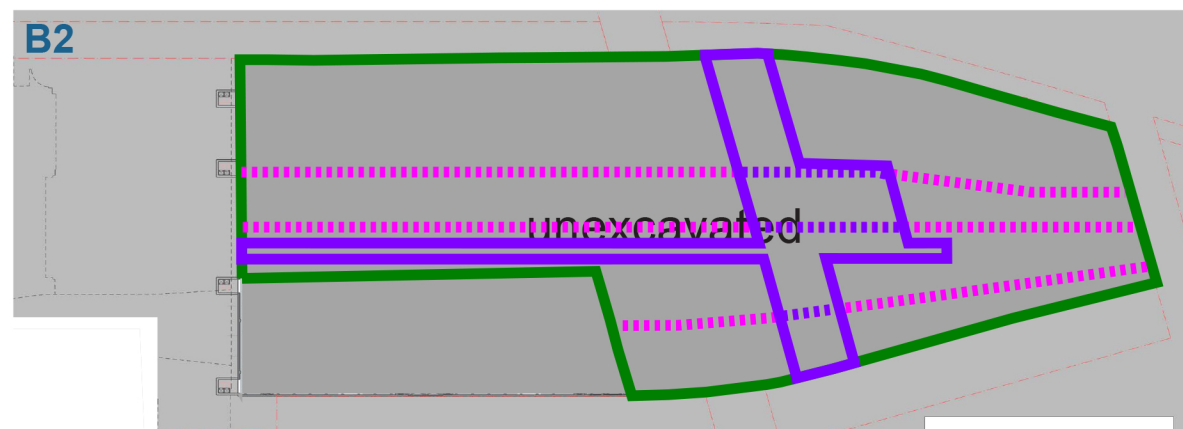
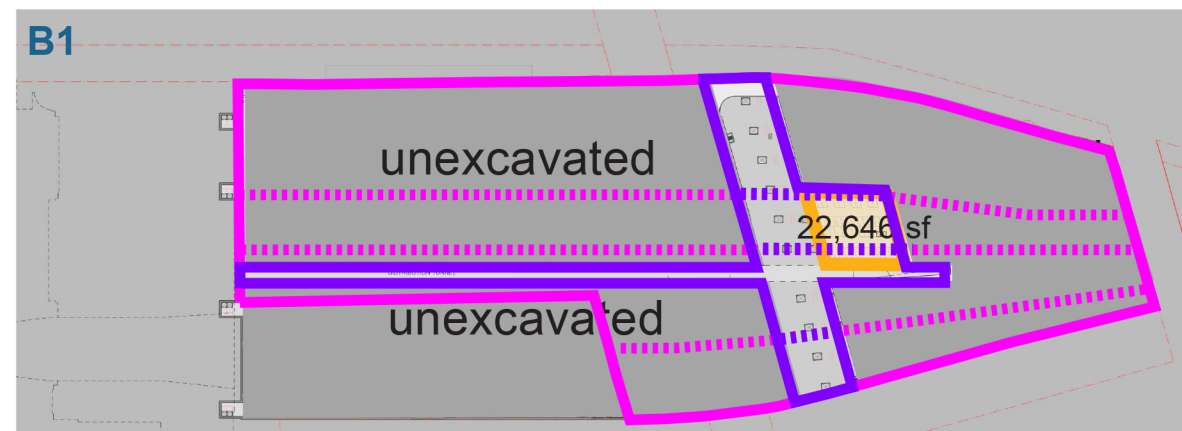
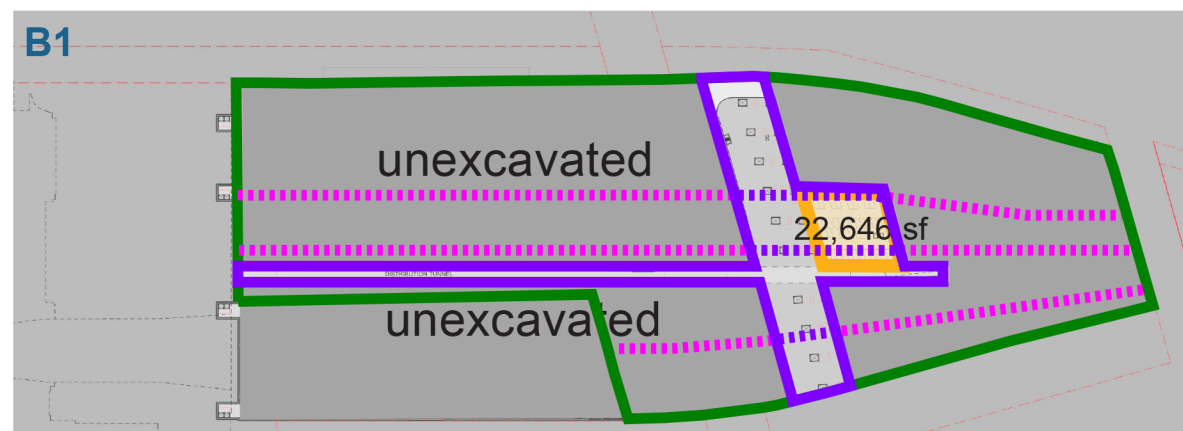
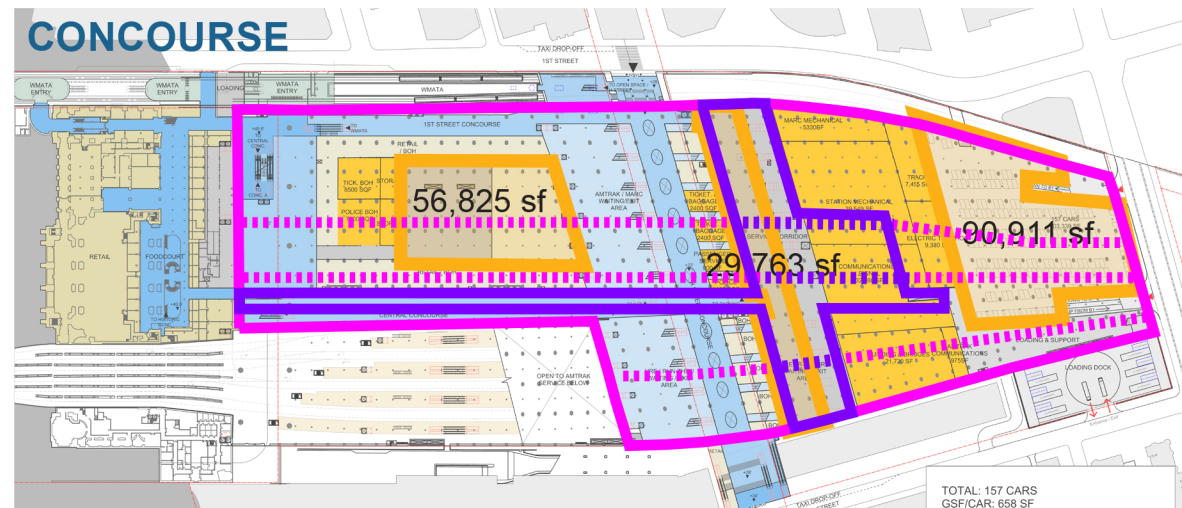
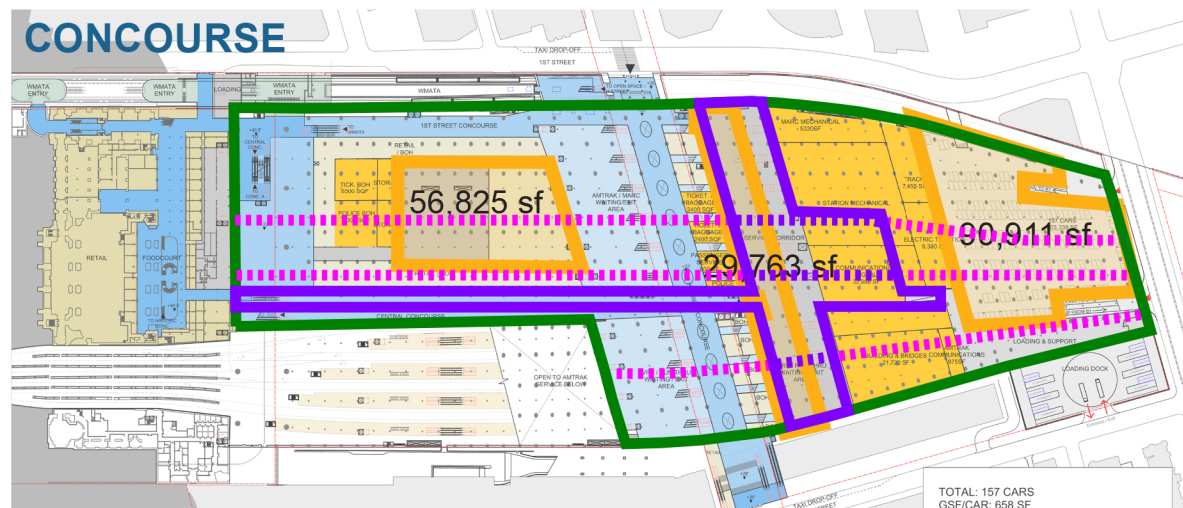
Secant Pile Wall
 64 FT Around the Run Through
 Tracks

Sheet Pile Wall
 100 FT for Phasing and Passage
 Ways

Alternate B & Alternate E

Alternate C & Alternate D

12/19/2018



Alternate A - SOE 2

Alternate A - SOE 3

General Notes:
 Existing Ground Elev = 52 FT
 Conc. Excavation Elev = 20 FT
 B1 Excavation Elev = 3 FT
 B2 Excavation Elev = -10 FT
 Water = 17 FT
 ——— SOE Permanent Condition
 - - - - - SOE for Phasing

Option 2

Secant Pile Wall
 64 FT Around Perimeter

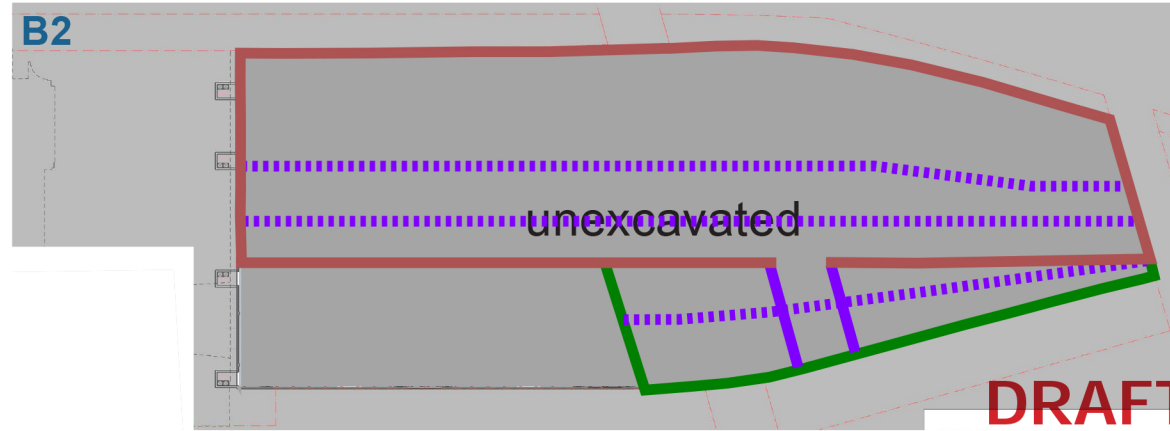
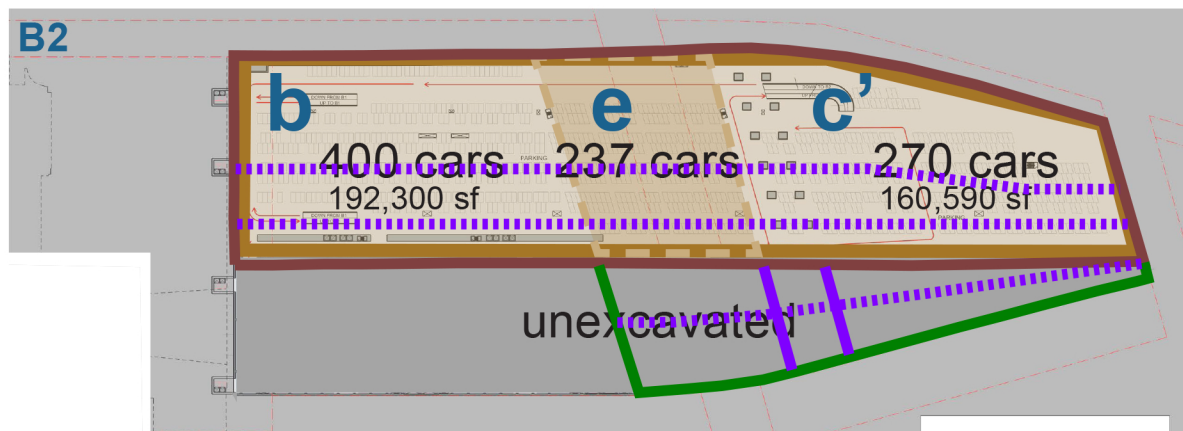
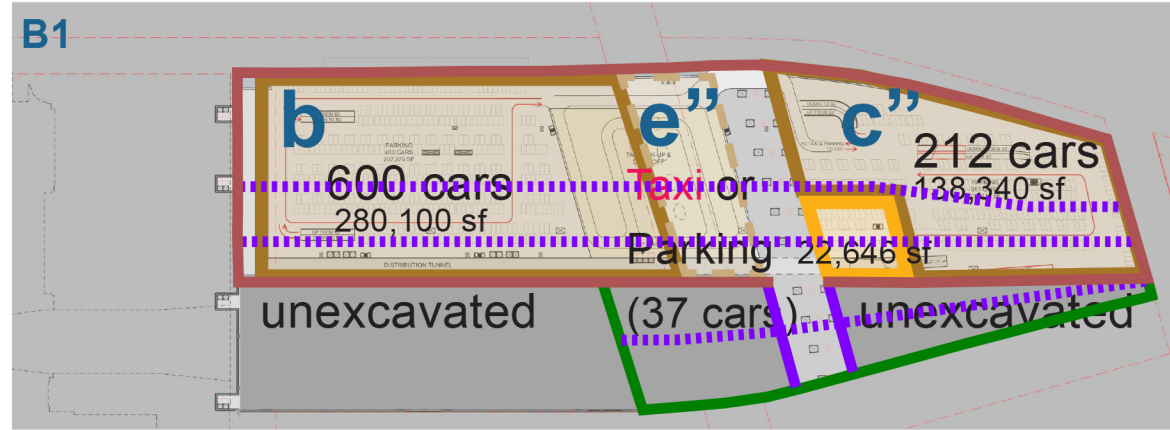
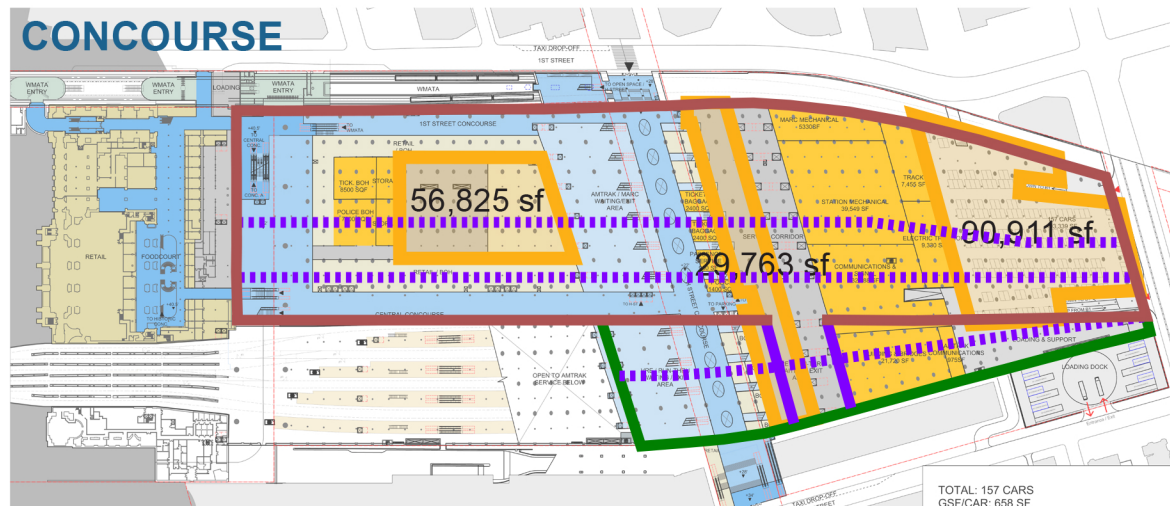
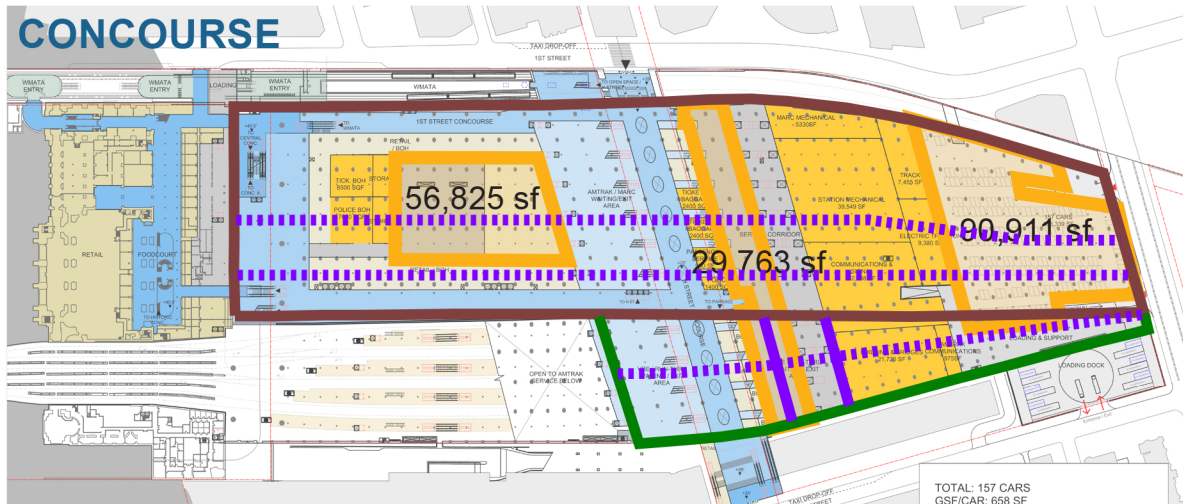
Sheet Pile Wall
 100 FT for Phasing and Passage Way

Option 3

Sheet Pile Wall
 64 FT around the Perimeter and Phasing

Sheet Pile Wall
 100 FT for Passage Ways and Phasing

12/19/2018



Alternate B & Alternate E

Alternate C & Alternate D

General Notes:
 Existing Ground Elev = 52 FT
 Conc. Excavation Elev = 20 FT
 B1 Excavation Elev = 3 FT
 B2 Excavation Elev = -10 FT
 Water = 17 FT
 ——— SOE Permanent Condition
 SOE for Phasing

Slurry Wall to Clay Layer 100 FT
 around the Stub End Tracks

Secant Pile Wall
 64 FT Around the Run Through
 Tracks

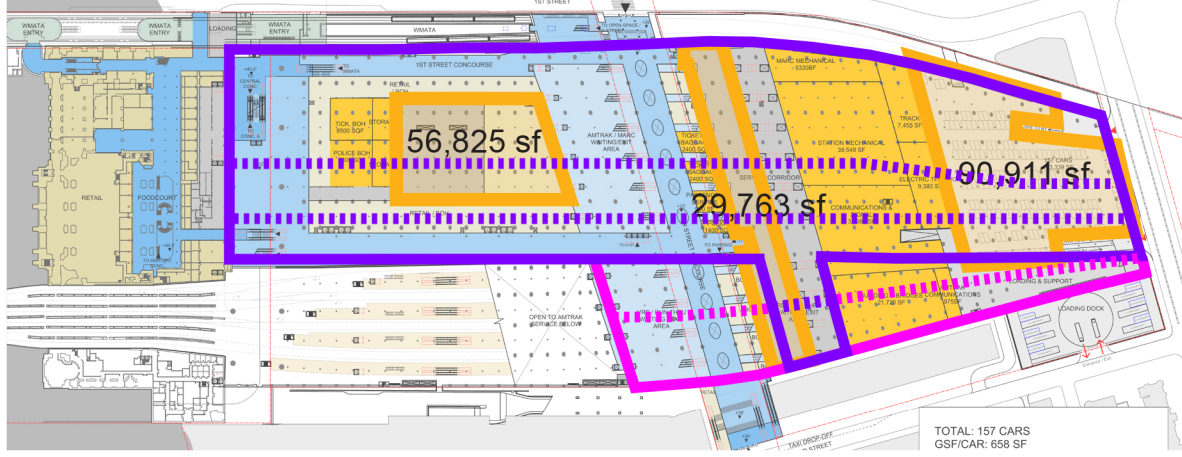
Sheet Pile Wall
 100 FT for Phasing and Passage
 Ways

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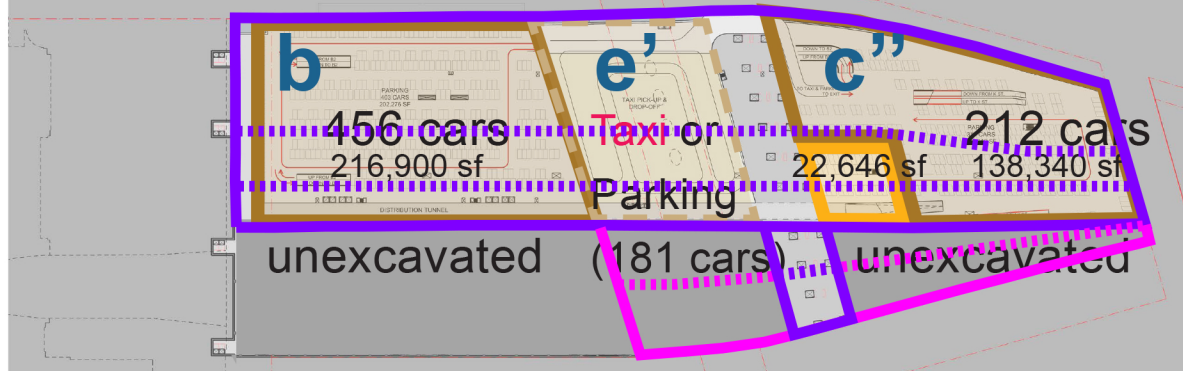
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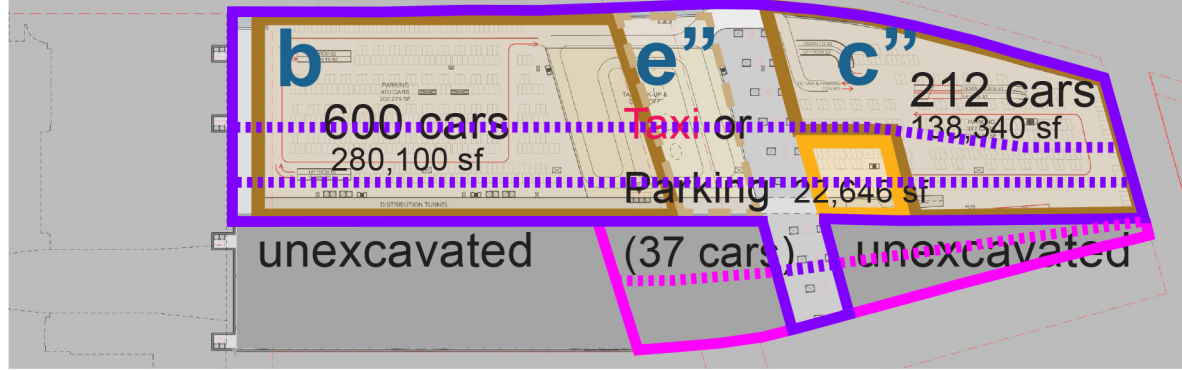
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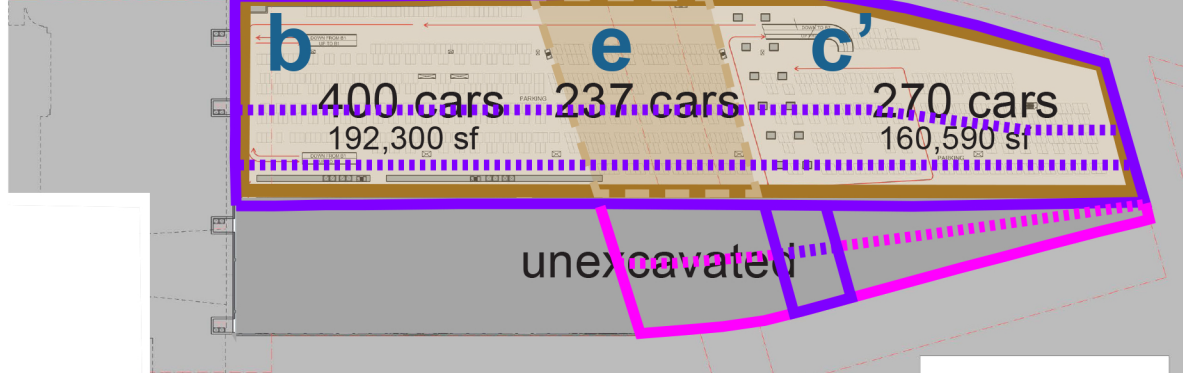
B1



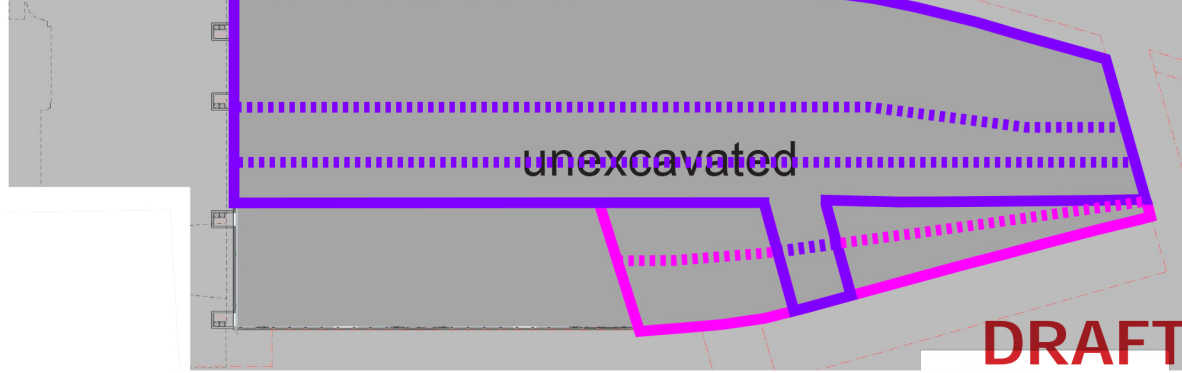
B1



B2



B2



Alternate B & Alternate E

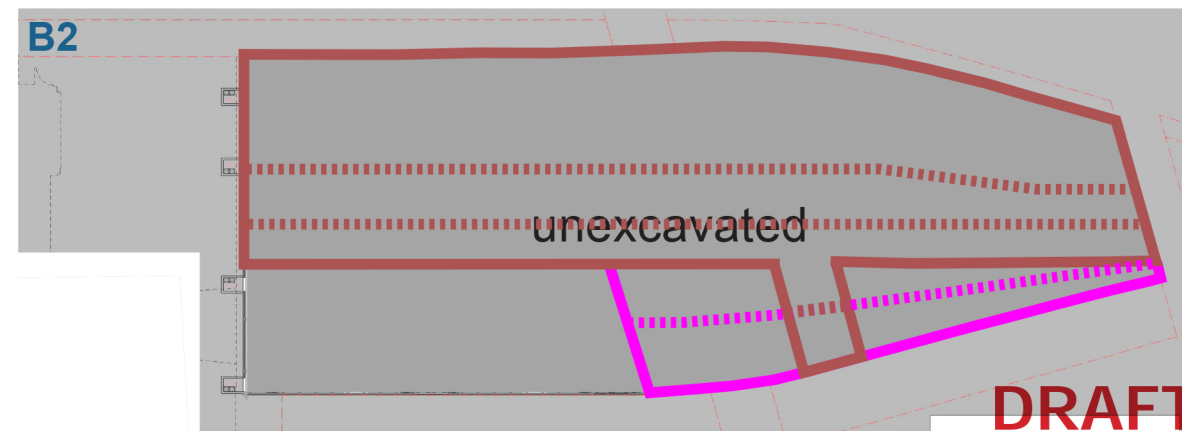
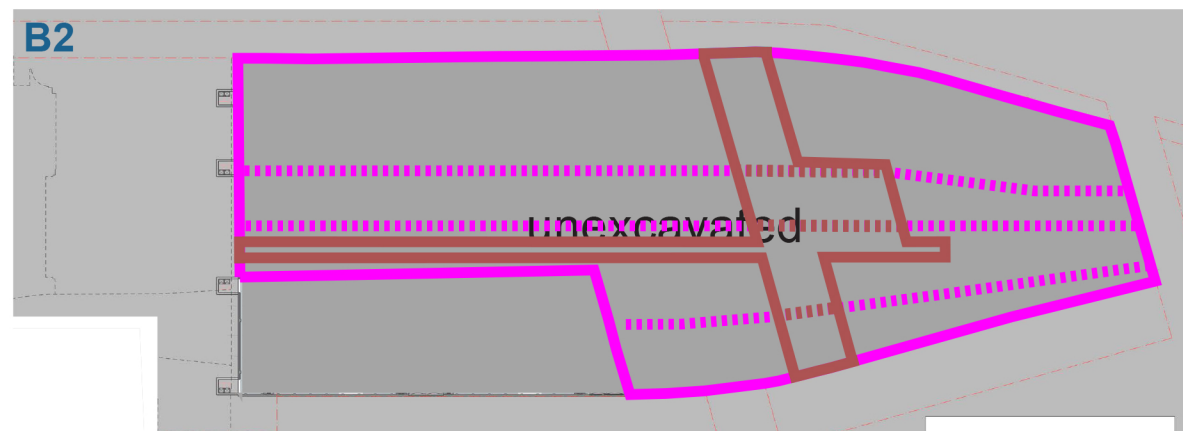
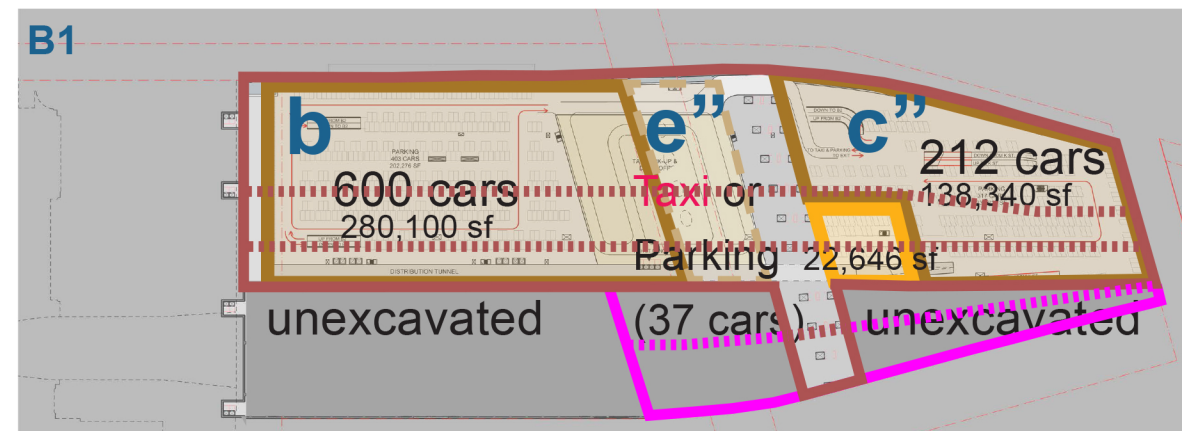
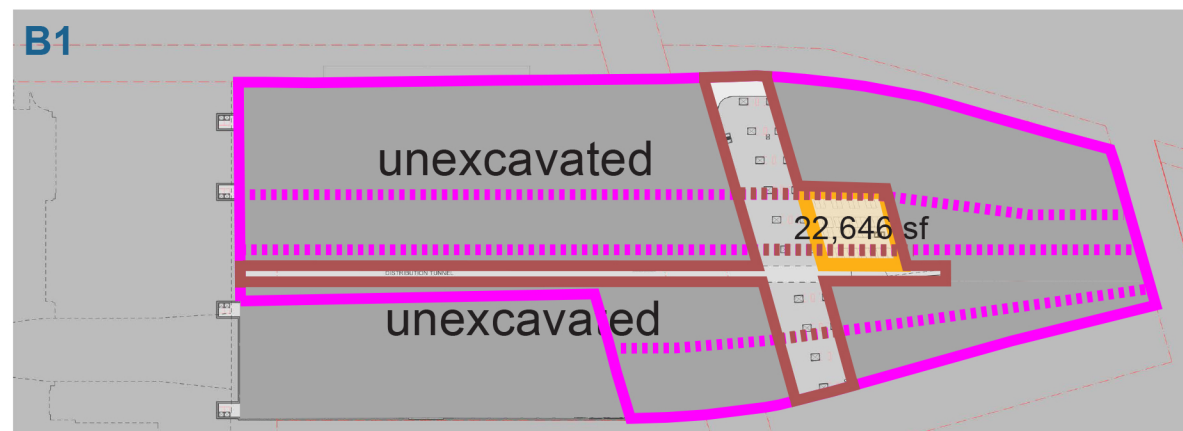
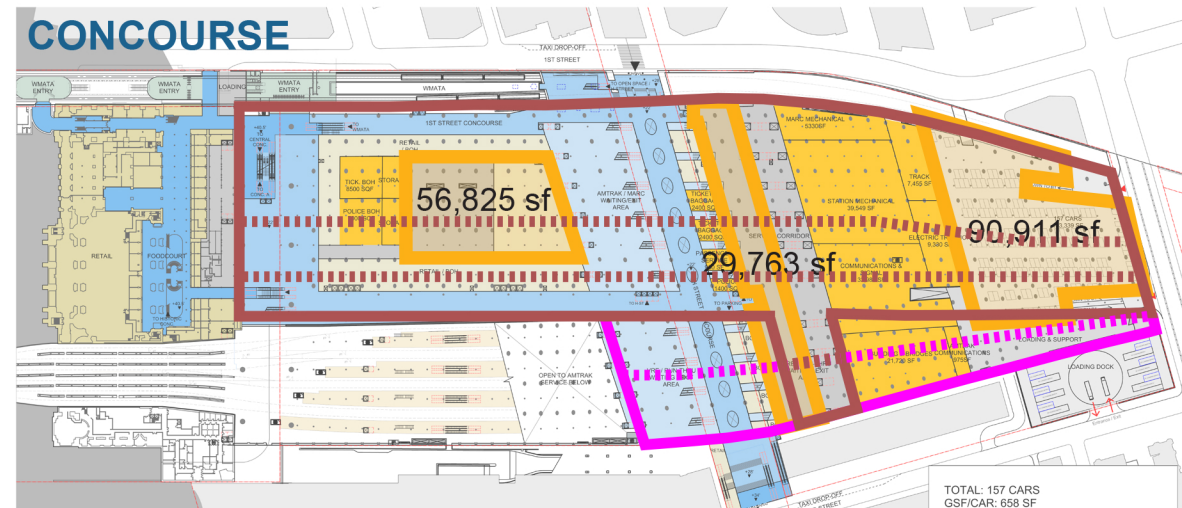
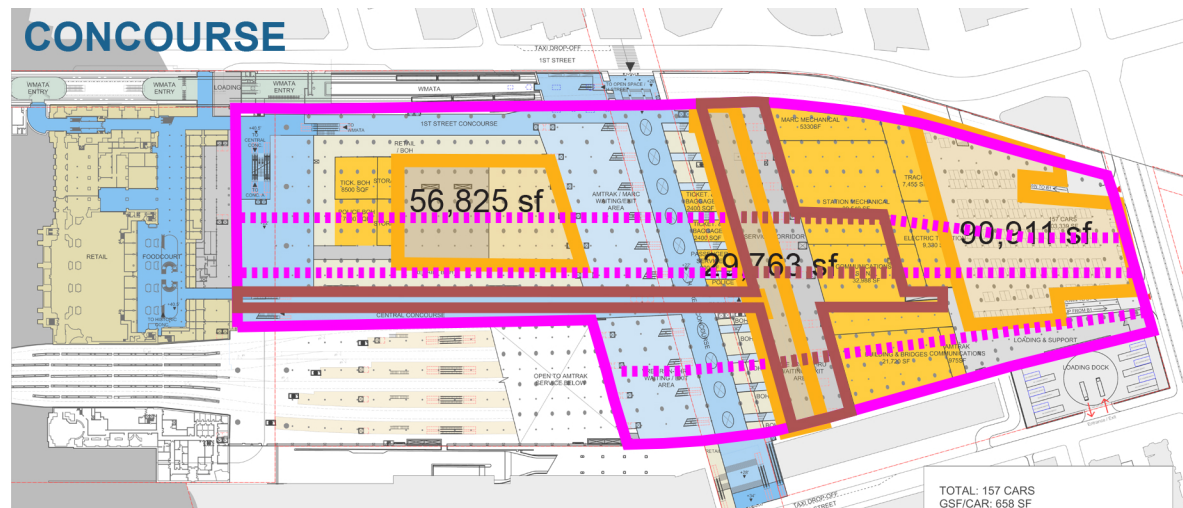
Alternate C & Alternate D

General Notes:
 Existing Ground Elev = 52 FT
 Conc. Excavation Elev = 20 FT
 B1 Excavation Elev = 3 FT
 B2 Excavation Elev = -10 FT
 Water = 17 FT
 ——— SOE Permanent Condition
 - - - - - SOE for Phasing

Sheet Pile Wall to Clay Layer
 64 FT around the Stub End
 Tracks, Phasing and Passage
 Ways

Sheet Pile Wall
 100 FT around the Run
 Through Tracks

12/19/2018



Alternate A - SOE 6

Alternate C & Alternate D - SOE 7

General Notes:
 Existing Ground Elev = 52 FT
 Conc. Excavation Elev = 20 FT
 B1 Excavation Elev = 3 FT
 B2 Excavation Elev = -10 FT
 Water = 17 FT
 ——— SOE Permanent Condition
 - - - - - SOE for Phasing

Option 6

Sheet Pile Wall
 64 FT around Perimeter and Phasing

Sheet Pile Wall
 80 FT Passage Ways and Phasing

Option 7

Sheet Pile Wall
 64 FT Around the Run Through Tracks

Sheet Pile Wall
 80 FT Around the Stub End Tracks

12/19/2018