

Seattle City Light – Network Engineering
OneU

Project Location: 1013 NE 45th St

Project #: 6826950

Cycle #: 1

Reviewer: H. Zadehgol, O. Kohashi, D. Smith, M. Gebrewold, J. Li and N. Nguyen

Date: 08/01/2022

1. Please note that SCL Network engineering only intends to review conflicts between SCL Network underground facilities and elements of the subject shoring system. SCL Network engineering is not the City agency that will approve of the shoring plan.
2. These review comments are exclusively for SCL Network group. This plan needs to also be reviewed by SCL Street Lighting group.
3. The plan shows future/new SCL Network service duct bank (2-2" & 6-4") coming from SCL facility 1045-M-1. As noted by SCL during the SIP review of a week ago, **the proposed service duct bank is not acceptable to SCL**. As a final tap point, the decision of which SCL facility will have to come from SCL Network engineering with a letter.
4. Please confirm if this project is requesting "alley dedication" where developer asks SDOT for portion of the alley to be given to them beyond a certain depth. If so, SCL has certain requirements that have to be followed.
5. There are existing SCL Network duct bank and vault on Roosevelt Way NE alley and NE 45th St that are **NOT CLEARLY SHOWN (NOT SHOWN TO SCALE)** in the design drawings. Please accurately show all SCL Network facilities (**SHOW TO SCALE**) on Roosevelt Way NE alley and NE 45th St.

Contact Michael.Walton@Seattle.gov from the Network GIS Mapping group to provide map data that displays the horizontal location of City Light's civil infrastructure in the Downtown, South Lake Union, First Hill, and U District areas.

6. Sheet S02: Interior dimensions of the existing SCL vault on NE 45th St are 8'x18' with probable 9" thick walls. The northeast corner of the easterly hatch shown on plan is approximately 6" to the west and south of the northeast interior corner of the vault. The existing vault appears to be very close to the proposed soldier piles N-1 & N-2. Depict vault extent and location clearly with respect to shoring wall and soil nails. Shoring must keep a clearance of 1' from SCL facilities.
7. Sheet S02: SCL duct bank runs east across the north face of the full length of the project. Ducts exit the east face of vault approximately 7" north of the south wall interior face and should be assumed to run parallel to roadway centerline, extending to the similarly located vault one block east. Duct bank encasement is likely to be 16"-22" wide for these ducts. The south face of the duct bank is likely to be 10"-12" offset from the south face of the vault.

Depict duct bank extent and location clearly with respect to shoring wall and soil nails. Shoring must keep a clearance of 1' from SCL facilities.

8. Sheet S02: SCL duct bank runs south across the west face of the full length of the property toward a vault in the alley south of the project. Ducts exit the south face of vault approximately 8" west of the east wall interior face and should be assumed to run parallel to alley centerline, extending to the alley vault. Duct bank encasement is likely to be 16"-22" wide for these ducts. Depict duct bank extent and location clearly with respect to shoring wall and soil nails. Shoring must keep a clearance of 1' from SCL facilities.
9. Sheet S03: Interior dimensions of the existing SCL vault on NE 45th St is 18' long with probable 9" thick walls. The bottom of the vault floor is approximately 15' below grade. The east end of the vault is approximately adjacent to gridline 1 based on the vault hatch shown on plan SH02. The vault is likely to intersect the proposed soil nails down to the third row from gridline 1 west. Depict vault extent and location clearly with respect to shoring wall and soil nails. Shoring must keep a clearance of 1' from SCL facilities.
10. Sheet S03: SCL duct bank runs east across the north face of the full length of the property. Ducts exit the east face of vault in an approximate elevation band ranging from 4' to 11' below existing grade. The duct bank is likely to intersect the proposed soil nails down to the second row east of gridline 1 and down to the first row east of gridline 2, with an expected transition depth between. Ducts are likely to consolidate at a shallow angle and may rise to a minimum depth of 3' below existing grade. Depth of the duct bank will likely taper from 7' depth at the face of the vault to 4' in the vicinity of N09. Depict duct bank extent and location clearly with respect to shoring wall and soil nails. Shoring must keep a clearance of 1' from SCL facilities.
11. Sheet S06: Interior dimensions of the existing SCL vault on NE 45th St is 8' wide with probable 9" thick walls. The bottom of the vault floor is approximately 15' below grade. The vault extends west beyond the northwest corner of the project into the alley, with duct bank extending south along the west shoring wall. Depict vault extent and location clearly with respect to shoring wall and soil nails. Shoring must keep a clearance of 1' from SCL Facilities.
12. Sheet S06: SCL duct bank runs east across the west face of the full length of the property to an alley vault south of the project boundary. Ducts exit the south face of vault in an approximate elevation band ranging from 4' to 9' below existing grade. The duct bank is likely to intersect the proposed soil nails down to the second row in the region of gridline A and down to the first row south of soldier pile W42, with an expected transition depth between. Ducts may consolidate at a shallow angle and may rise to a depth of 3' below existing grade. Depth of the duct bank will likely taper from 5' depth at the faces of the vaults to 3' at the middle of the bank run. Depict duct bank extent and location clearly with respect to shoring wall and soil nails. Shoring must keep a clearance of 1' from SCL facilities. Three additional conduits follow the duct bank path, with one 2-1/2" diameter conduit turning into the project area at the southwest corner of the existing gas station.

13. Sheet S06: Three additional conduits follow the duct bank north from the alley vault south of the project area, with two 2" diameter conduits turning into the project area at the northwest corner of the carwash and to a location between the two existing structures.
14. Sheet S07: Depict vault and duct bank with minimum clearances from shoring wall and soil nails. Shoring must keep a clearance of 1' from SCL facilities.
15. Sheet S08: At North section, depict vault and duct bank with minimum clearances from shoring wall and soil nails. Shoring must keep a clearance of 1' from SCL facilities.
16. Sheet S09: At West sections, depict duct bank with minimum clearances from shoring wall and soil nails. Shoring must keep a clearance of 1' from SCL facilities.
17. Please note that installations of shoring, shoring piles and shoring lagging shall maintain a separation from SCL duct banks, vaults, manholes and handholes of **no less than 1 foot** for the duration of construction. For acceptable clearances from SCL, please see SCL Construction Standard 0214.00.
18. Please note that it is the contractor's responsibility to pothole and verify locations, dimensions and depths of SCL's underground facilities within the plans affecting areas.
19. Because there are energized primary (26,000 volt) cables within the project boundary, the contractor needs to exercise care in excavating. Contractor must contact Seattle City Light to arrange a safety standby when working within 5 feet of SCL's electrical facilities.
20. Please also notify SCL's Erik Williams at 206-730-1097 (Erik.Williams@Seattle.Gov) four weeks prior to the start of this project.