



Building a Better World
for All of Us®

MEMORANDUM

TO: City of Columbia Heights

FROM: Dale Romsos

DATE: November 3, 2020

RE: 3939 Central Ave Mono Pole CUP Application Request
SEH No. COLHT 157649 14.00

On behalf of the City of Columbia Heights, Short Elliot Hendrickson Inc. (SEH®) is seeking a Conditional Use Permit for the installation of a 180' communication mono pole and 60'x60' multi-tenant compound at 3939 Central Ave. This site will be used to assist in the relocation of wireless cellular carriers recently displaced from a nearby structure that was removed.

The mono pole being used is a multi-faceted, tapered, galvanized steel pole with four levels of antennae brackets. The use of a mono pole is favored by many municipalities, as its foundation provides a small ground footprint, while being able to reach up to 200' with minimal ground space and visual impact. The galvanized structure also provides an extremely long life cycle with little to no maintenance.

A visual impact has been provided with tower simulation photos provided at five distances from the proposed tower location. It should be noted that due to the terrain, trees, and residential street layout to the east of the proposed tower location, the simulated tower could only be seen at a close distance. Our report has distances from 400' to almost 4000' from which to reference. As the impact photos will show, at a distance the tower will blend in similar structures like power and light poles.

Construction of the mono pole will include:

- Engineering for a 50% break design so the pole will only fold onto itself.
- 180' height design.
- Class III structure class (highest design rating).
- Current engineering specifications (ANSI/TIA-222-G).
Note: As of this date, Minnesota has not recognized Revision H of this engineering specification.
- Engineered for four levels of wireless telecommunication tenants.
Note: Compound is designed for four tenants.

No variance is being requested, as the design and engineering specifications fall within the City of Columbia Heights ordinances for a new communication tower as noted:

- Section (13) subsection b); paragraph (iii). Nearest tower (38th & Jefferson) is 1600' from the proposed location.
- Section (13) subsection (a); paragraph (i). The engineered specification of 50% break allows for 20% of tower height to be used for set back from proposed tower location to the nearest lot line (=36').

SEH is requesting approval for the Conditional Use Permit application for the installation of a 180' communication mono pole and 60'x60' multi-tenant compound at 3939 Central Ave. as detailed above. We believe we have met all requirements set forth by City ordinances and zoning. If you have questions or concerns, please contact Dale Romsos at 612.325.9995.

X:\AE\IC\COLHT\157649\Telecom\Monopole\Carrier- Upgrade Type\Correspondence\Letters\City of Columbia Heights CUP Memorandum.docx

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 1701 West Knapp Street, Suite B, Rice Lake, WI 54868-1350
SEH is 100% employee-owned | sehinc.com | 715.236.4000 | 800.903.6970 | 888.908.8166 fax