

Appendix L Utilities

Kali Dickerson

From: Quayle, LaWana <lawanasue.quayle@pse.com>
Sent: Thursday, February 02, 2017 1:36 PM
To: 'Dave Rodgers'; Fournier, Thomas
Cc: Christian Knight; Kali Dickerson; Schaun Valdovinos; Aaron McDonald; Jennifer Lathrop
Subject: RE: Totem Lake PSE Facilities
Attachments: samm juan prof kirkland clip 1-19-17.dxf; samm juan plan kirkland clip 1-19-17.dxf

Dave –

Hopefully these files will meet your needs. The pink squares in the plan view are the pole locations. Units are in US Survey Feet with NAD 83 Washington North survey coordinates. We look forward to your specific questions next week.

Thanks,
LaWana

From: Dave Rodgers [mailto:drodgers@migcom.com]
Sent: Thursday, February 02, 2017 12:38 PM
To: Quayle, LaWana; Fournier, Thomas
Cc: Christian Knight; Kali Dickerson; Schaun Valdovinos; Aaron McDonald; Jennifer Lathrop
Subject: RE: Totem Lake PSE Facilities

Hi LaWana and Thomas,
We have a public meeting in Kirkland tonight to get some public input and we are moving forward with the bridge configuration and alignment analysis. If you can forward the DXF files with the alignment and profiles, we can then provide specific questions next week. Thanks
-dave

Dave Rodgers, PE LEED AP
MIG | SvR
t. 206.223.0326 ext. 710

From: Dave Rodgers [mailto:drodgers@migcom.com]
Sent: Monday, January 30, 2017 11:39 AM
To: 'Quayle, LaWana' <lawanasue.quayle@pse.com>; 'Fournier, Thomas' <tom.fournier@pse.com>
Cc: 'Christian Knight' <CKnight@kirklandwa.gov>; 'Kali Dickerson' <kadi@cowi.com>; 'Schaun Valdovinos' <scva@cowi.com>; 'Aaron McDonald' <AMcDonald@kirklandwa.gov>; Jennifer Lathrop <jlathrop@migcom.com>
Subject: RE: Totem Lake PSE Facilities

Hi LaWana,
If you have access to Thomas' schedule, we could set up a time to meet upon his return this week. Friday is wide open right now if that works. We could stop by your office. Thanks
-dave

Dave Rodgers, PE LEED AP

MIG | SvR

t. 206.223.0326 ext. 710

From: Quayle, LaWana [<mailto:lawanasue.quayle@pse.com>]

Sent: Wednesday, January 25, 2017 2:33 PM

To: 'Dave Rodgers' <drodgers@migcom.com>; Fournier, Thomas <tom.fournier@pse.com>

Cc: Christian Knight <CKnight@kirklandwa.gov>; Kali Dickerson <kadi@cowi.com>; Schaun Valdovinos <scva@cowi.com>; Aaron McDonald <AMcDonald@kirklandwa.gov>; Jennifer Lathrop <jlathrop@migcom.com>

Subject: RE: Totem Lake PSE Facilities

Hi Dave –

My apologies, I got a new cell phone and I've been having a little difficulty with messages. But it is working now!

Going forward, I will be sharing this project with Tom Fournier.

He is currently on vacation, so I would like to wait until he returns the middle of next week to plan a meeting together.

We would definitely be able to provide geo referenced dxf files for both our plan and profile of the line with current pole locations.

Clearances are dependent on what the clearance is being measure to.

If we are discussing human beings, equipment, or cranes, then clearances are determined by WAC minimum approach distances.

Please let me know if you have additional questions.

Thanks,

LaWana

From: Dave Rodgers [<mailto:drodgers@migcom.com>]

Sent: Wednesday, January 25, 2017 11:09 AM

To: Quayle, LaWana

Cc: Christian Knight; Kali Dickerson; Schaun Valdovinos; Aaron McDonald; Jennifer Lathrop

Subject: Totem Lake PSE Facilities

Hi LaWanna,

We met on the kick off site visit for the Cross Kirkland Corridor Totem lake Bridge and I left a voice message on your cell phone. We would like to closely coordinate our bridge concept development with the PSE planned facilities in this area. Would it be possible to share Cad bases, profiles, cross sections, pole locations for your planned improvements? We also would like to discuss clearance requirements from conductors, pole base and mid span access requirements for maintenance.

Aaron McDonald, the City of Kirkland Project Manager is CC'd on the email if you need to go through city staff for coordination.

We are available to discuss and/or meet as well.

Thanks

-dave

Dave Rodgers, PE LEED AP

MIG | SvR

t. 206.223.0326 ext. 710

Kali Dickerson

From: Schaun Valdovinos
Sent: Thursday, April 06, 2017 5:44 PM
To: Dave Rodgers; Quayle, LaWana
Cc: A088367_Mail; Nina de Witt; Aaron McDonald; Kali Dickerson
Subject: Totem Lake - PSE Power Line Sections
Attachments: PSE_Section_A.pdf; PSE_Section_B.pdf; PSE_Section_C.pdf; PSE_Section_D.pdf; PSE_Plan.pdf; PSE_Sections.dwg

Hi Dave and LaWana,

Please find attached sections along the Totem Lake Pedestrian Bridge with the future powerlines shown. Clearances to the bridge and structure are indicated.

We have also provided the CAD file for additional reference.

LaWana, are you able to confirm that these clearances are more than sufficient from PSE's perspective?

Cheers,
Schaun

Schaun Valdovinos, MS, PE, P.Eng.

Senior Bridge Engineer
COWI Bridge

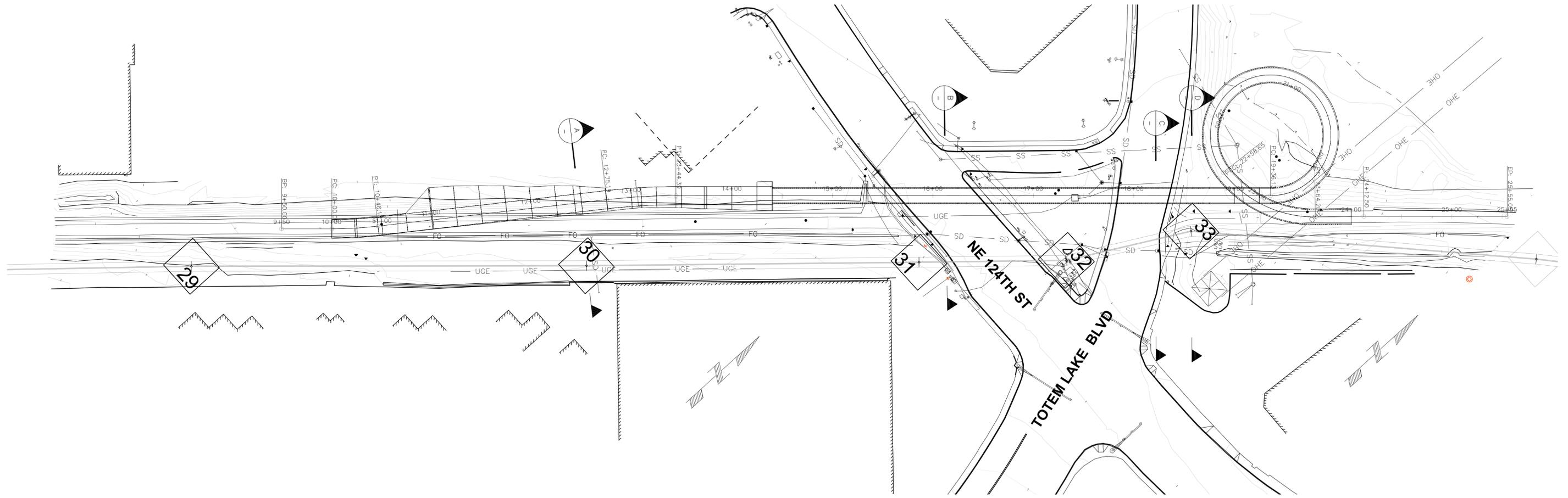
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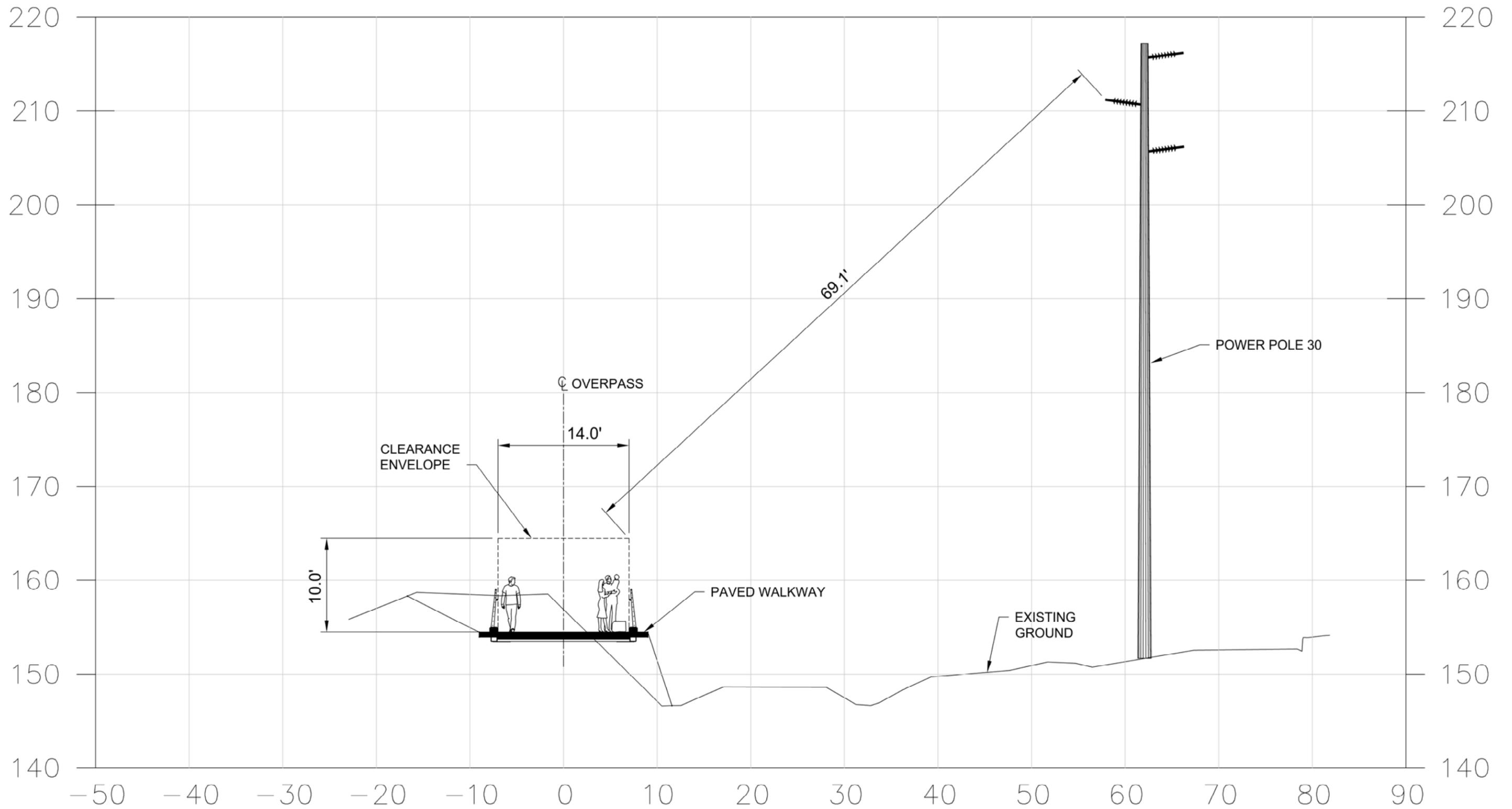
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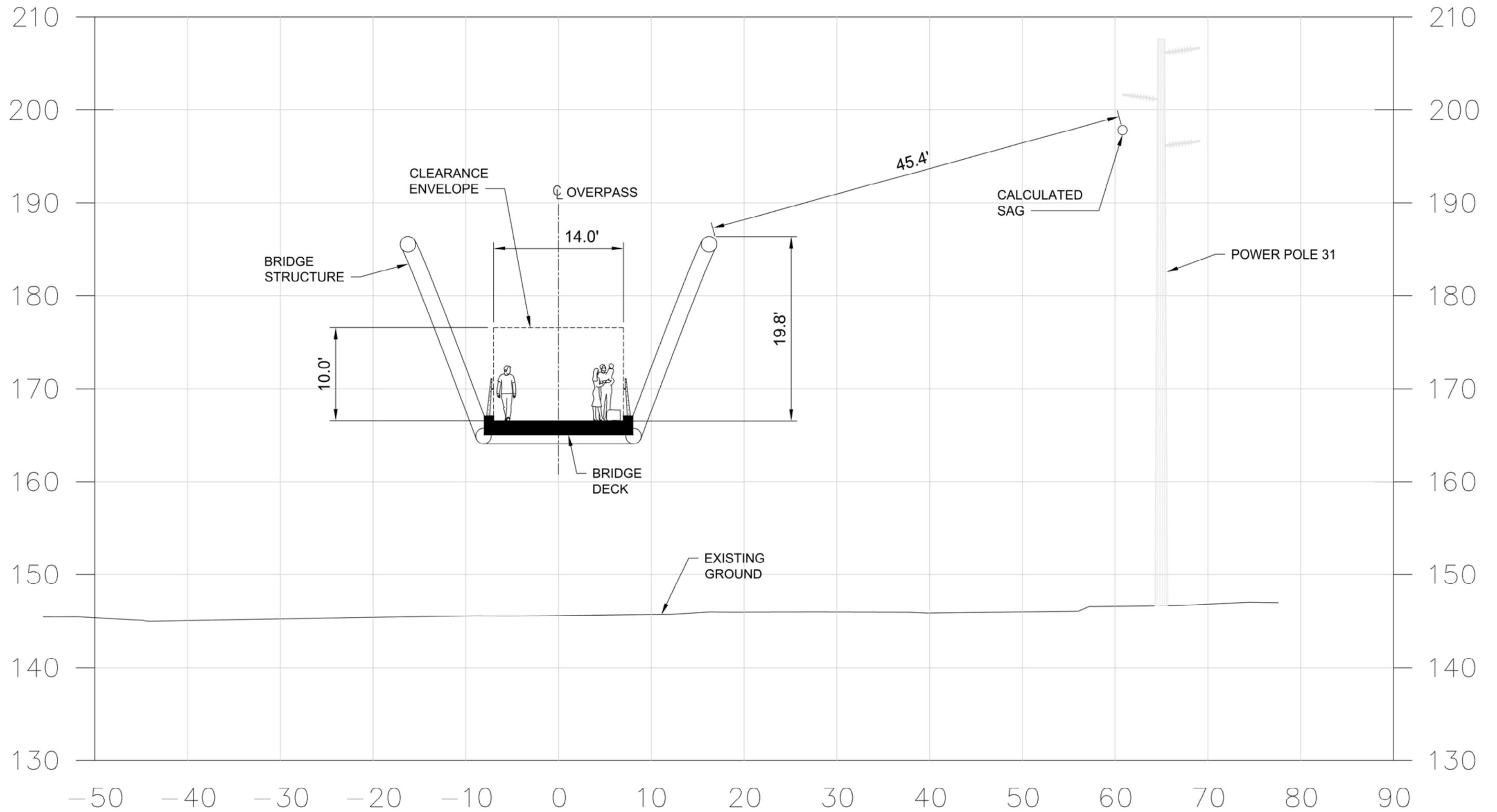
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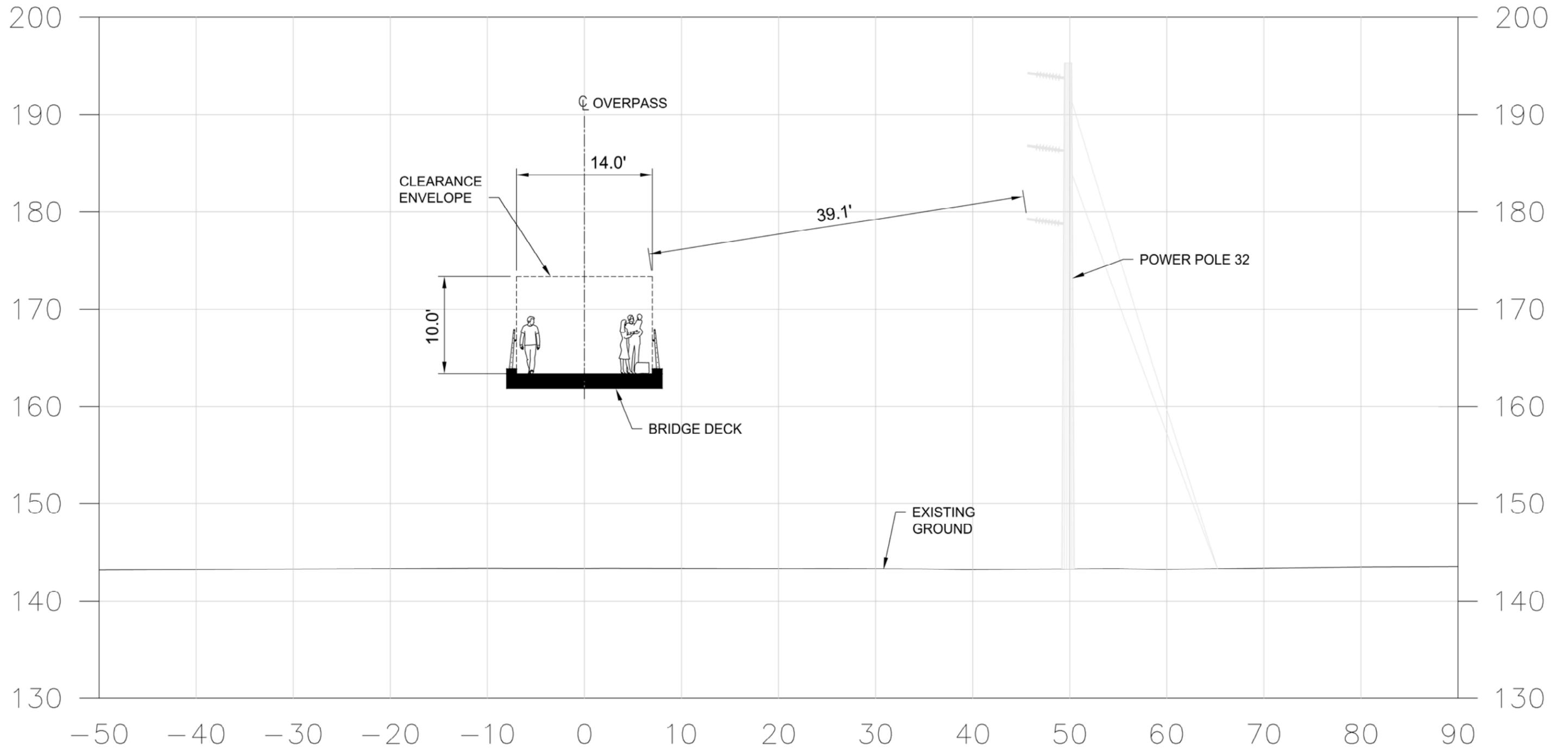




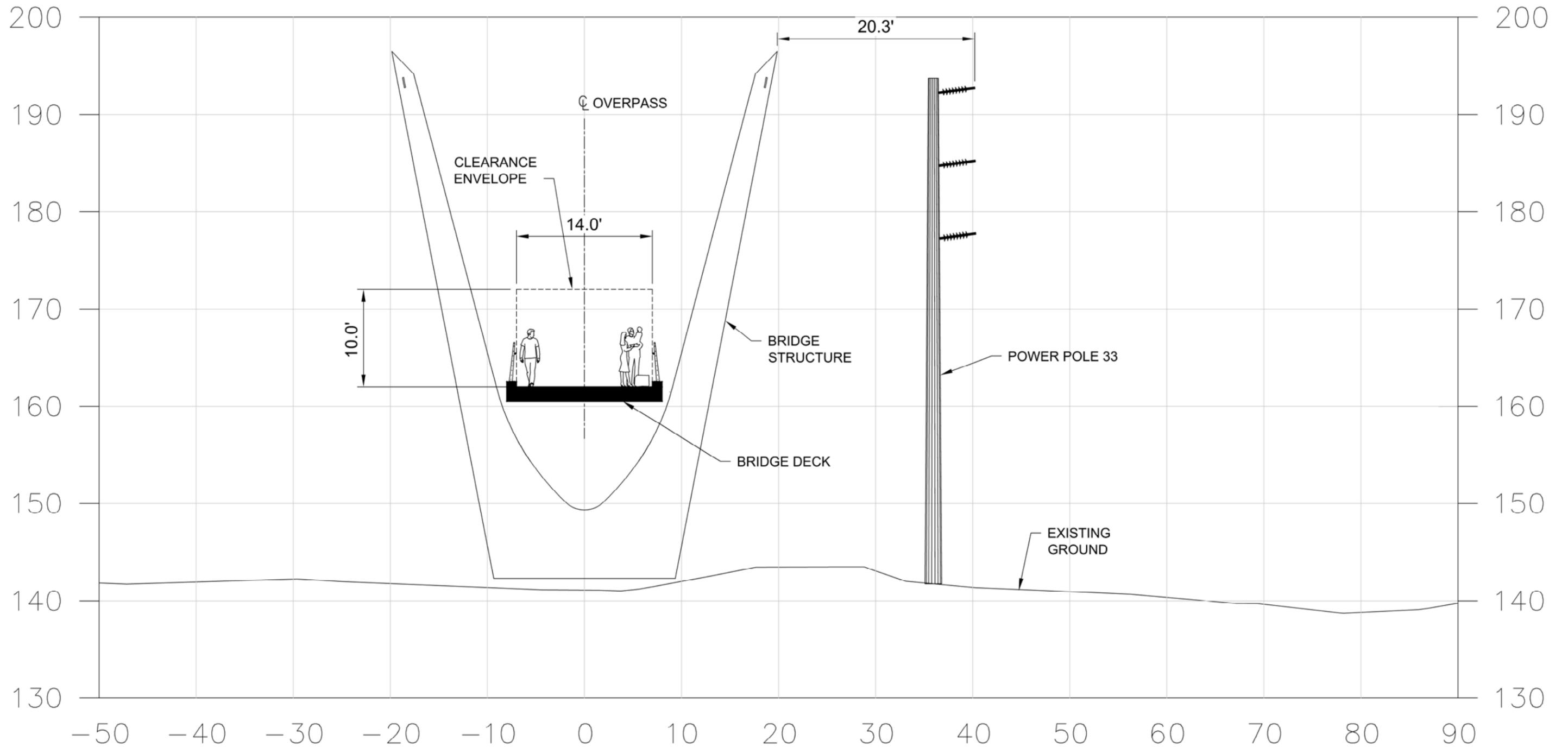
SECTION A
 STA 12+47.74



SECTION B
 STA 16+13.67



SECTION C
 STA 18+22.06



SECTION D
 STA 18+57.70

Kali Dickerson

From: Schaun Valdovinos
Sent: Friday, April 14, 2017 3:59 PM
To: Lin, Jimmy; Dave Rodgers
Cc: Aaron McDonald; Jennifer Lathrop; Risch, Bob; Bresnahan, John; A088367_Mail; Kali Dickerson
Subject: Totem Lake SCL Facilities - Suspended Ring Option
Attachments: SCL_Plan.pdf; SCL_Section_1.pdf; A088367 SCL Clearance.dwg; 170411 TL - Suspended Ring 01 - Board Views_006.jpg

Hi Jimmy,

I wanted to follow up to our early email conversation with this additional bridge option: the Suspended Ring. In this option, a single mast supports a cone of cables that hold up the bridge deck over the wetlands (see included rendering).

As shown in the pdf, we have sufficient clearance to the cables, but I just wanted to keep you aware of the variations currently being evaluated in the TS&L study. We should know which option will be pursued in detailed design by the end of May.

Regards,
Schaun

Schaun Valdovinos, MS, PE, P.Eng.
Senior Bridge Engineer
Direct: 206 748 4022

COWI
Website: www.cowi-na.com - www.cowi.com

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From: Lin, Jimmy [mailto:Jimmy.Lin@seattle.gov]
Sent: Friday, April 07, 2017 10:58 AM
To: Schaun Valdovinos <scva@cowi.com>; Dave Rodgers <drodgers@migcom.com>
Cc: Aaron McDonald <AMcDonald@kirklandwa.gov>; Jennifer Lathrop <jlathrop@migcom.com>; Risch, Bob <Bob.Risch@seattle.gov>; Bresnahan, John <John.Bresnahan@seattle.gov>; A088367_Mail <A088367_Mail@cowi.com>; Kali Dickerson <kadi@cowi.com>
Subject: RE: Totem Lake SCL Facilities

One thing that's not shown is the height of lighting or features. The scrapbook diagram below shows some kind of structure that extends over the walkway. Those should be included in determining clearance to the transmission line. Other than that, the clearance in the diagram Section 1 show there is adequate clearance to the transmission line.

On a separate note, construction clearance also needs to be considered. These transmission lines are a part of the regional system and it's unlikely that the contractors can obtain an outage just for construction. This has become a problem more than once so please keep that in mind.

Thanks,

JIMMY LIN
SEATTLE CITY LIGHT
(206) 733-9289

From: Shaun Valdovinos [<mailto:scva@cowi.com>]
Sent: Friday, April 07, 2017 7:56 AM
To: Lin, Jimmy <Jimmy.Lin@seattle.gov>; Dave Rodgers <drodgers@migcom.com>
Cc: Aaron McDonald <AMcDonald@kirklandwa.gov>; Jennifer Lathrop <jlathrop@migcom.com>; Risch, Bob <Bob.Risch@seattle.gov>; Bresnahan, John <John.Bresnahan@seattle.gov>; A088367_Mail <A088367_Mail@cowi.com>; Kali Dickerson <kadi@cowi.com>
Subject: RE: Totem Lake SCL Facilities

Hi Jimmy and Dave,

Attached is a plan and section showing the SCL overhead powerlines with respect to the Totem Lake Pedestrian Bridge. We have also included the CAD file for reference.

The clearances provided below have been provided and we have additional clearance below the loaded and sway position of the low lines.

I've attached a rendering of the bridge ramp at this location to illustrate how it loops beneath itself.

Could you confirm that this provides sufficient clearance to your power lines?

Regards,
Shaun

Schaun Valdovinos, MS, PE, P.Eng.
Senior Bridge Engineer
Direct: 206 748 4022

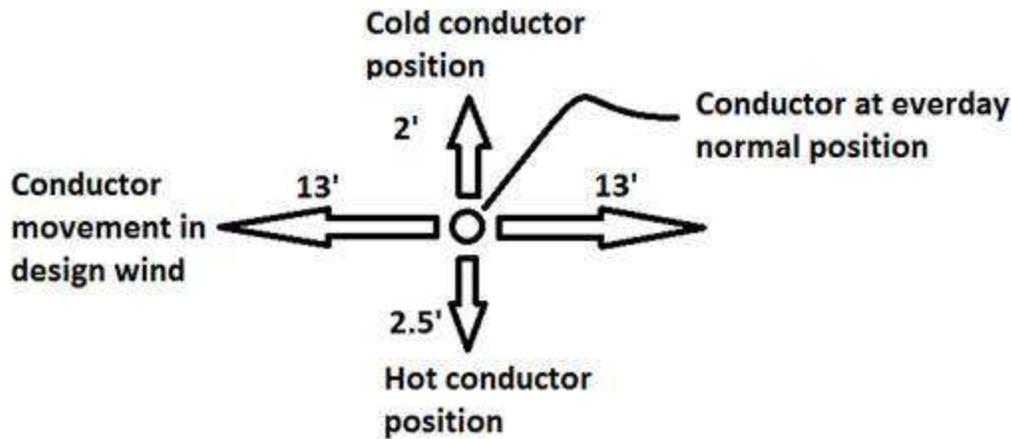
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Website: www.cowi-na.com - www.cowi.com

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From: Lin, Jimmy [<mailto:Jimmy.Lin@seattle.gov>]
Sent: Wednesday, February 08, 2017 8:19 AM
To: Dave Rodgers <drodgers@migcom.com>; Risch, Bob <Bob.Risch@seattle.gov>
Cc: Kali Dickerson <kadi@cowi.com>; Shaun Valdovinos <scva@cowi.com>; Jennifer Lathrop <jlathrop@migcom.com>; Aaron McDonald <AMcDonald@kirklandwa.gov>; Bresnahan, John <John.Bresnahan@seattle.gov>
Subject: RE: Totem Lake SCL Facilities

Dave,

Please see below for the conductor movement envelope that the 230 kV circuit is designed for.



This diagram only applies for the area above the CKC because as you move further north, the movement envelope gets bigger. The clearance required from the conductor **in any position** to the bridge/bridge elements is 11.5' horizontal and 16.5' vertical. For lighting support, the clearance required is 8.0' horizontal and 8.5' vertical to the conductor in any position. We currently have no plans for upgrades or replacements. The access requirements would be the similar for the Chief Sealth Trail project.

JIMMY LIN
 SEATTLE CITY LIGHT
 (206) 733-9289

From: Dave Rodgers [<mailto:drodgers@migcom.com>]
Sent: Thursday, February 02, 2017 2:24 PM
To: Risch, Bob <Bob.Risch@seattle.gov>; Lin, Jimmy <Jimmy.Lin@seattle.gov>
Cc: Kali Dickerson <kadi@cowi.com>; Schaun Valdovinos <scva@cowi.com>; Jennifer Lathrop <jlathrop@migcom.com>; Aaron McDonald <AMcDonald@kirklandwa.gov>; Bresnahan, John <John.Bresnahan@seattle.gov>
Subject: RE: Totem Lake SCL Facilities

Hi Jimmy,

It was great to talk with you. Attached are some diagrams and information to refresh your memory and provide some background. As we discussed, the bridge will most likely be 'formed' around the SCL operating envelopes and clearance requirements, basically reverse engineered around your infrastructure. The general bridge alignment will be along the west edge of the Cross Kirkland Corridor (CKC). During the master plan process, a circular bridge was envisioned on the north side to ramp down to grade. We are looking to carry that vision forward. Our current survey only base in PDF is attached. The bridge is touching down on the north end just as the transmission lines cross the CKC. We previously worked with SCL on the Chief Sealth Trail in Seattle and there were clearance requirements provided for earthwork, equipment operation, as well as Condor vehicle access for future upgrades, replacement and maintenance of the transmission lines.

The questions and coordination items we have are the following to assist with firming up design criteria for the bridge:

- SCL clearance requirements for fixed objects (bridge and bridge elements such as railings)
- SCL operational clearance for bridge users
- SCL Access requirements at base of tower
- Voltage of the Transmission lines
- Any planned upgrade or replacement plans
- SAG calculations for the lines

CHARACTER ZONE SCRAPBOOK

6.9 TOTEM LAKE

Character

There are two distinct characters to the Totem Lake stretch of the CKC—the western portion, where the corridor is defined by private property on both sides, and the eastern portion, where the CKC seamlessly merges with the ecologically rich and visually spectacular Totem Lake Park. This stretch is entirely re-imagined, with adjacent parcels redeveloped to front the corridor with active edges, while the newly enhanced Totem Lake Park becomes a northern trailhead to the CKC. Nowhere does the trail have a greater opportunity to be a catalyst for change and growth and become a civic treasure than at Totem Lake!

Totem Lake Gateway

A grade separated crossing of 124th and Totem Lake Boulevard is the ideal way to provide quick, safe passage across the highest traffic intersection on the CKC. This crossing, a structurally dramatic bridge, can become an icon for the city and Totem Lake as one of the more dramatic experiences on the corridor, its form shaped by the restricted clearance requirements of traffic and overhead power lines.

Totem Lake Park

The newly revitalized park includes the CKC on its southern edge with the addition of active and passive park elements. The corridor is connected to the northern shore through a looping trail network, where restrooms, lawn area and a play area create a welcomed stopping place and northern trailhead.

Design Influences

Gateway

The passage of the trail over 124th and Totem Lake Boulevard becomes a gateway to the neighborhood as well as a powerful symbol for the growth and change of Totem Lake into an increasingly important center of retail and commercial activity for Kirkland and the region.

Ecological redevelopment

The CKC as a model of active transportation and the enhanced ecologically rich Totem Lake Park set the tone for the emergence of Totem Lake as a new model for the development of ecologically rich, sustainable districts.



Dave Rodgers, PE LEED AP
MIG | SvR
 t. 206.223.0326 ext. 710

From: Risch, Bob [mailto:Bob.Risch@seattle.gov]
Sent: Wednesday, January 25, 2017 2:05 PM
To: Dave Rodgers <drodgers@migcom.com>
Cc: Kali Dickerson <kadi@cowi.com>; Schaun Valdovinos <scva@cowi.com>; Jennifer Lathrop <jlathrop@migcom.com>; Aaron McDonald <AMcDonald@kirklandwa.gov>; Lin, Jimmy <Jimmy.Lin@seattle.gov>; Bresnahan, John <John.Bresnahan@seattle.gov>
Subject: RE: Totem Lake SCL Facilities

Hi Dave,

Thanks for checking in with us. We reviewed this project quite some time ago and now we see that it's back. If I recall, there were a few issues with the initial design.

Please work with Mr. Jimmy Lin, one of our senior Transmission Line Engineers. Jimmy can review your plans, comment, and provide guidance for needed changes. I have included Jimmy in this email, and am including his phone number as well. I am also including John Bresnahan's info, our Senior Real Property agent, who can answer general questions about rights and acceptable uses:

Jimmy Lin, P.E.
(206) 733-9289

John Bresnahan
(206) 684-3324

Best Regards,

Bob Risch, P.E.
Sr. Network Manager
Seattle City Light
(206) 684-3269

From: Dave Rodgers [<mailto:drodgers@migcom.com>]
Sent: Wednesday, January 25, 2017 11:41 AM
To: Risch, Bob <Bob.Risch@seattle.gov>
Cc: Kali Dickerson <kadi@cowi.com>; Schaun Valdovinos <scva@cowi.com>; Jennifer Lathrop <jlathrop@migcom.com>; Aaron McDonald <AMcDonald@kirklandwa.gov>
Subject: Totem Lake SCL Facilities

Hi Bob,

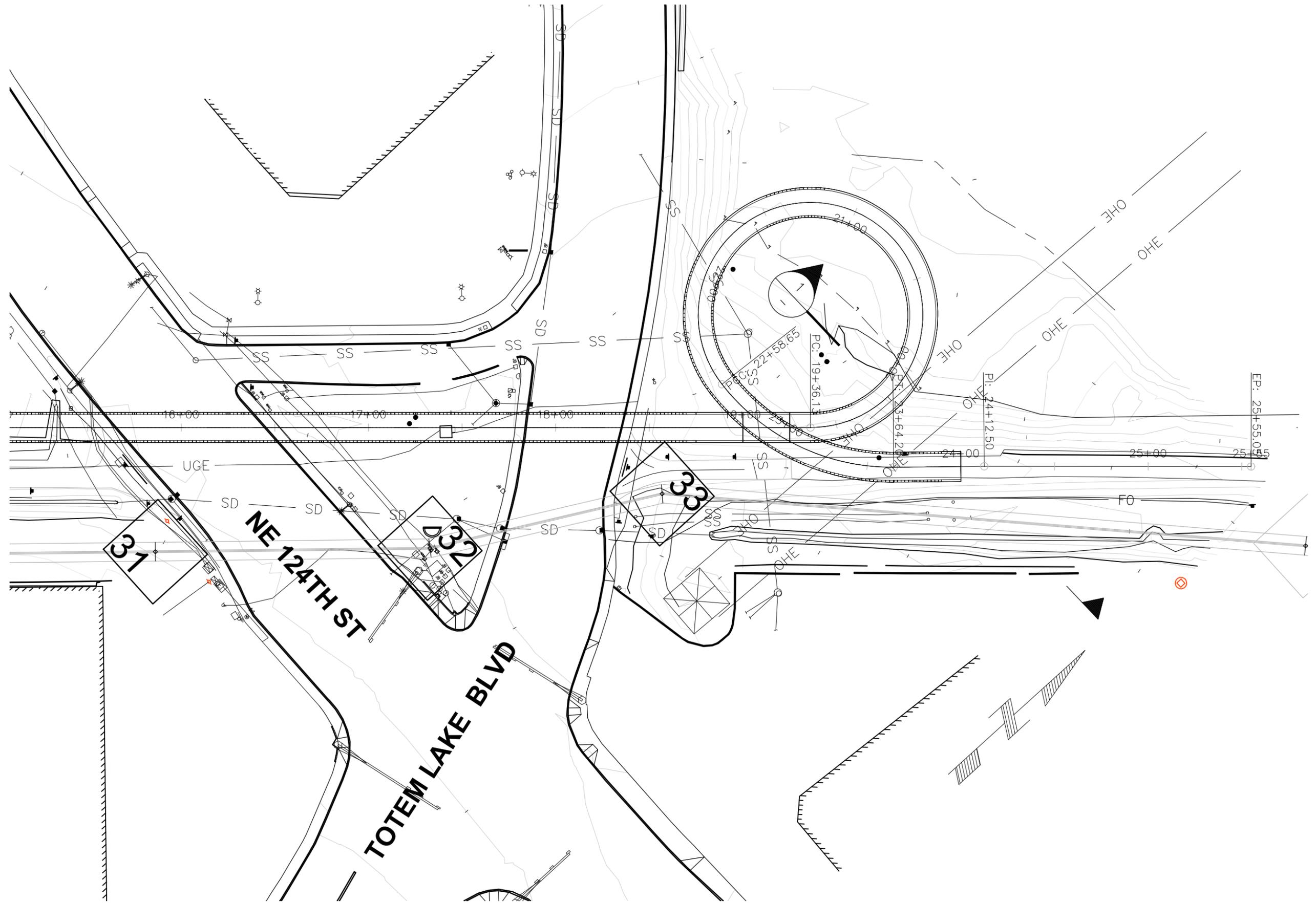
I left you an introduction voicemail. We are working with the City of Kirkland on a pedestrian bridge in the Totem Lake area as part of their larger vision of the Cross Kirkland Corridor. We need to coordinate with Seattle City Light to review existing and proposed facilities in the area looking at transmission line profiles existing and proposed including transmission line profiles/clearance requirements and maintenance access to pole bases and mid spans for future work.

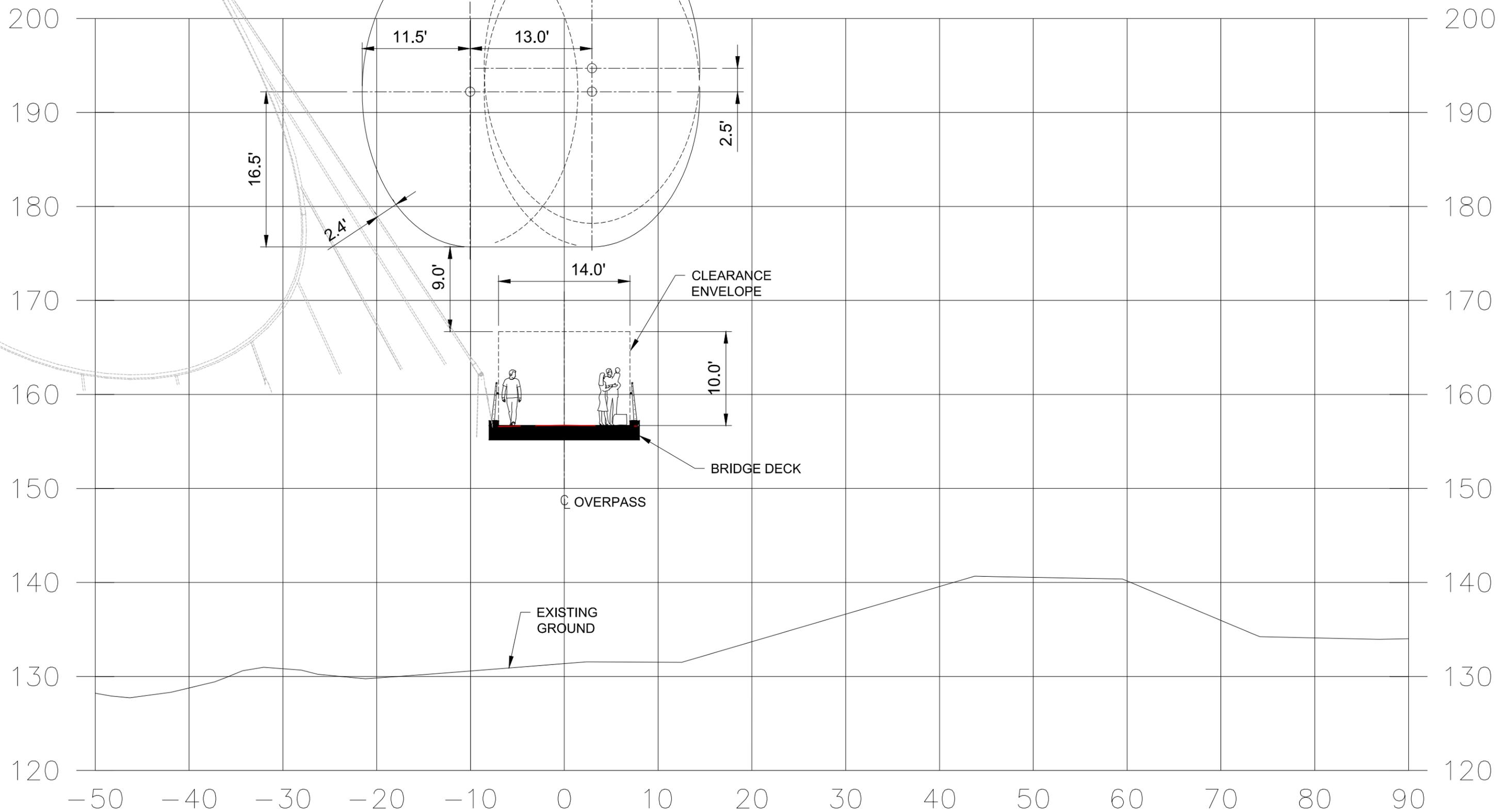
We can walk through on the phone to clarify the project, schedule and other partners.
We look forward to talking with you.

Thanks
-dave

Dave Rodgers, PE LEED AP
Principal Engineer

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SECTION 1
 STA 19+81.61

