

**Addendum No. 2  
To the Plans, Specifications, Proposal and Contract**

**City of Kirkland  
Fire Station 24  
9824 NE 132<sup>nd</sup> ST, Kirkland WA 98034  
CIP # PSC 3002 200  
JOB # 32-20-PW**

Notice to All Plan holders:

This Addendum No. 2, containing the following revisions, additions, deletions, and/or clarifications is hereby made part of the Plan and Contract Documents for the above-named project. Bidders shall take this Addendum into consideration when preparing and submitting their bids. With issuance of this Addendum, it shall be incorporated into the Contract Documents.

Contractors shall acknowledge receipt of this Addendum in the place provided on the Bid Form. Failure to do so may disqualify the Bidder from consideration of its bid.

All other requirements of the contract documents remain in effect.

ISSUED THIS DATE: August 10, 2020

BID SUBMITTAL TIME/DATE/LOCATION: **Unchanged –**

Prior to 1:00 P.M. on August 18, 2020 at

City of Kirkland  
123 5<sup>th</sup> Avenue  
Kirkland WA 98033

**GENERAL**

**Item 1.** The attendance lists from the August 4, 2020 and August 6, 2020 Mandatory Pre-Bid Conference is attached.

**PROJECT NOTES/ CLARIFICATIONS**

None

**QUESTIONS & ANSWERS**

(Questions received to date not answered by this addendum will be addressed by a future addendum)

- 1. Question:** *Are aggregate piers required for alternate #1 concrete detention vault?*  
**Answer:** No.
- 2. Question:** *Geotechnical Report Paragraph 4.8 recommends replacement of existing rockeries. Will the existing rockeries be replaced?*  
**Answer:** No.

3. **Question:** *Reference Spec 087100 3.2 Hardware Groups Please confirm that HW Groups 20 and 21 are for the site gates shown on the site places and civil plans. Please identify which gates are which.*  
**Answer:** Group 20 is at the Patio Gate. Group 21 is the Gate adjacent to the Trash Enclosure.
4. **Question:** *Reference C2.0 Notes 3,4,11. For accurate demo purposes, please provide anticipated hardscape thicknesses identified per note 11 on C2.0. Please also provide existing as-builts for existing building foundation per notes 3 and 4.*  
**Answer:** Reference reissued C2.0 provided by this addendum. There is no available as-built record for the existing foundation.
5. **Question:** *Will the Owner remove the Bidder Qualification requirement for a new Fire Station being part of the demonstrated body of work.*  
**Answer:** The Owner will not remove the requirement. This addendum provides revised language relevant to this requirement.
6. **Question:** *Specification section 31 60 00 Aggregate Pier Soil Reinforcement note 1.2.C.3 The Specialty Contractor will be responsible for obtaining all necessary permits and approvals for the Aggregate Pier System from the authorities have jurisdiction over this project. And note 3.4.A A. The Owner will obtain a grading permit for this project. However, that grading permit will not include the work related to the Aggregate Pier design or installation. The Specialty Contractor shall be responsible for securing all necessary permits from the authorities having jurisdiction over the project for the Aggregate Pier system, including submitting all necessary material for review, paying for, and picking up the permits. Typically, ground improvement is included under the general building permit. Please confirm this is the case for this project. If there will be a separate ground improvement building permit, please give us an estimate of the costs.*  
**Answer:** The GC is required to provide the deferred submittal as required by the building permit. The Building Department has indicated a separate permit will not be required, and there will be no related fees.
7. **Question:** *Specification section 31 60 00 Aggregate Pier Soil Reinforcement note 2.4.B.2.b Storm Water Vault - Allowable foundation soil bearing pressure for footing design of 5,000 pounds per square foot, with a one third increase for transient wind and seismic loading. Please confirm that 5000psf bearing pressure is only required under the detention vault walls. If this is not the case, please clarify how you would like the vault foundation supported by ground improvement.*  
**Answer:** To be addressed by a future addendum.
8. **Question:** *Specification section 31 60 00 Aggregate Pier Soil Reinforcement note 3.5.B.3.a.5 Deflections at the bottom of the test Aggregate Pier shall be measured by means of a telltale installed at the bottom of the test Aggregate Pier....Telltals are only able to be installed by a single contractor in the area due to proprietary installation methods. Also, telltals are unnecessary to determine the performance of an aggregate pier. Please confirm that the use of telltals is not required in modulus testing.*  
**Answer:** Confirmed, the use of telltals is not required in modulus testing.
9. **Question:** *...the bid docs say we have to hold our bids for 60 days. Do you have an estimate as to when the job would actually start?*  
**Answer:** The Owner anticipates issuing a Notice to Proceed on/about September 15, 2020.
10. **Question:** *Regarding the subcontractor listing, it appears that HVAC, Plumbing, Electrical, Steel*

*Installer, Rebar Installer are required to be listed. The Bidder's Checklist mentions HVAC & Electrical to be submitted within 1 hour after submitted bids and Steel/Rebar to be submitted within 48 hours. Furthermore, there are multiple references to contracts over \$1,000,000.*

**Answer:** Please review RCW 39.30.060 and Engrossed Senate Bill 5457.

- a. Question: *Will plumbing subcontractor be required at the 1 hour time slot or the 48 hour time slot?*

Answer: 1 hour.

- b. Question: *Will all subcontracts over \$1,000,000 be required to be listed on the Subcontractor ID document, or only those mentioned above?*

Answer: The \$1,000,000 refers to the overall bid amount, so HVAC, plumbing, electrical, Steel/Rebar will all be required.

- c. Question: *On the Subcontractor ID document, there is a space for work to be performed by Prime Contractor. Is this only to be filled out if the value of work is over \$1,000,000 or is this to be filled out regardless of amount of self-performed work?*

Answer: This is for self-performed work that meets the categories (HVAC, Plumbing, Electrical, Steel/Rebar) listed in the RCW.

- d. Question: *Are you requiring HVAC, Plumbing, Electrical, Steel, & Rebar to be listed even if their total subcontractor amount is less than \$1,000,000?*

Answer: Yes, the RCW requires this.

- e. Question: *Will the section of work to be performed by Prime Contractor be required at the 1-hr slot or the 48-hr slot?*

Answer: It depends on the trade of work being self-performed. The 48-hour deadline is for steel/rebar.

- f. Question: *What should be on the subcontract listing envelopes for the two time slots of Subcontractor Listing? I was thinking: "Subcontractor Identification Part I, Fire Station 24, Job # 32-20-PW." & "Subcontractor Identification Part II, Fire Station 24, Job # 32-20-PW."*

Answer: That would be fine.

- 11. Question:** *The Finish Schedule mentions Ceramic Tile (CT-01) on the East & South walls of Room 129. The East Elevation is called out on 4/A7.7 and the South wall does not seem to have an interior elevation. Detail 4/A7.7 does not appear to show any ceramic tile. Can you provide interior elevations of this room that show the height and location of the ceramic tile called out on the finish schedule?*

**Answer:** There will not be Ceramic Tile at Room 129. This will be revised by the next addendum.

- 12. Question:** *Finish Item CB4, Fabric-Reinforced Coved Base, is called out on the finish schedule in a few rooms and mentioned on the "Finish Schedule Key" on the same page. The revised finish selection provided in Addendum 1 does not seem to call out any CB4 material. Can you provide this spec?*

**Answer:** The Fabric-Reinforced Cove Base is part of the 09 85 10 system.

- 13. Question:** *Is the Electrical contractor required to pay any costs to Puget Sound Energy(PSE) for this project?*

**Answer:** The PSE charges are paid by the Owner. There is no direct payment between the Contractor and PSE except for the Contractor's arrangement for Construction power.

- 14. Question:** *E1.1 Flag Note 5: What requirements from PSE are required for this contract?*

**Answer:** All requirements noted in PSE's current Electric Service Handbook as Customer

responsibilities as stated on E1.1 General Note 3.

**15. Question:** *E1.1 Flag Note 1 & E9.1. Drawings do not show requirements from PSE pole to transformer – please advice conduits/conductors if any required?*

**Answer:** See E1.1 General Notes 1 – 5, 7 – 11.

**16. Question:** *E1.1 Flag Note 15. What size is the PSE vault that PSE is providing?*

**Answer:** PSE has not completed their engineering yet. The vault size is currently unknown. Until that information is available plan for a vault that is 6’x6’x6’ with an 8’x8’x12” lid.

**17. Question:** *E9.1 Feeder Schedule 800S. Should Neutral state “1#3/0” or is “3#3/0” correct?*

**Answer:** 1#3/0 is correct

**18. Question:** *E9.1 What is the conduit/wire schedule for 800G (connecting the Generator)?*

**Answer:** 4 sets of 2”C., 3#3/0, 1#3/0N & 1#1/0Gnd.

## **PROJECT MANUAL MODIFICATIONS**

### **Item 1.** Refer to Section 00 10 20 BIDDER’S QUALIFICATIONS

a. Revise Number 8 to read:

8. To qualify for bidding for this project the General Contractor as the legal entity bidding the project shall have constructed at least one (1) fire station, and at least one (1) municipal project with a total value of \$8 million dollars or greater, AND within the past four (4) years the following:

- A. A demonstrated body of work of similar complexity and similar construction cost. AND
- B. LEED Construction.

### **Civil Specifications**

#### **Item 1.** Refer to Section 01 57 13 TEMPORARY EROSION AND SEDIMENT CONTROL

a. Replace with Section provided by this Addendum -attached.

### **Architectural Specifications**

#### **Item 1.** Refer to Section 03 35 43 – POLISHED CONCRETE FINISHING is revised.

a. Revise article 3.4 subsection C.4. to read:

4. For bidding purposes, provide (CPAA) level 3 (polished) grind of top 1/8” ((CPAA) Class C) to expose light to course aggregate. (7 abrasive passes minimum) Actual grind will be determined by approved owner and Architect’s review of Mock-up.

b. Delete article 3.4 subsection C.4.b.

#### **Item 2.** Refer to Section 06 10 00 – ROUGH CARPENTRY.

a. Revise article 1.6 subsection C.8. to read:

8. Laboratory Test Reports: For installation adhesives, indicating compliance with requirements for low-emitting materials.

#### **Item 3.** Refer to Section 07 27 26 – FLUID APPLIED WATER RESISTIVE BARRIERS.

a. Revise article 1.5 subsection B. to read:

B. Sustainable Design Submittals:

1. Comply with requirements of Section 01 81 13

2. Product Data: For weather barrier products, indicating VOC content.

**Item 4.** Refer to Section 07 42 63 METAL WALL PANELS.

- a. Revise article 1.4 subsection B. to read:
  - B. Sustainable Design Submittals:
    - 1. Product Data: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content data.
      - a. Include statement indicating costs for each product having recycled content.

**Item 5.** Refer to Section 08 14 16 FLUSH WOOD DOORS.

- a. Revise article 2.4 subsection A.5. to read:
  - 5. Core: Sound absorbent material encapsulated by stiles, rails, crossbands, and face veneers. FSC certified and/or Preconsumer Recycled Content. No added urea formaldehyde.
- b. Revise article 2.4 subsection A.7. to read:
  - 7. Face Veneers and Vertical Stile Edges: Matching. FSC certified.

**Item 6.** Refer to Section 08 32 00 FOLDING ALUMINUM FRAMED GLASS DOORS.

- a. Revise article 1.5 subsection C. to read:
  - C. Sustainable Design Submittals:
    - 1. Comply with requirements of Section 01 81 13.
- b. Delete article 1.5 subsection D.
- c. Revise article 2.1 subsection A.1. to read:
  - 1. Basis-of-Design Product by Manufacturer: NanaWall SL70 by NANA WALL SYSTEMS, INC. (www.nanawall.com)."
- d. Revise article 2.4 subsection A.1. to read:
  - 1. Panels and Frames
    - a. Panels
      - 1) Single lite.
        - a) Panel Size (W x H): As indicated.
        - b) Rail Depth: 2-3/4 inch (70 mm)
        - c) Top Rail and Stile Width: 2-1/4 inch (57 mm)
        - d) Bottom Rail Width: 2-1/4 inch (57 mm)
      - 2) Manufacturer's standard kickplate: 10"
    - b. Frame:
      - 1) Matching top track and side jambs
        - a) Top Track Width (Floor Supported): 2-9/16 inch (65 mm)
        - b) Side Jambs Width: 2-9/16 inch (65 mm)
        - c) Top Track and Side Jambs Depth: 3-1/8 inch (80 mm)
    - c. Sill Type:
      - 1) Low profile saddle sill (thermally broken)
      - 2) Sill Aluminum Finish:
        - a) a dark bronze anodized finish
      - 3) For ADA Compliance at Swing Panel: Provide gasket to cover the channel in the sill at swing panels.
  - e. Revise article 2.4 subsection D.1. to read:
    - 1. For Each Pair of Folding Panels:
      - a. Floor Supported System: Provide upper guide carriage and lower running carriage with four vertical stainless-steel wheels and two horizontal wheels. Vertical wheels to ride on stainless steel guide track covers over the full length of

sill track and lie above the water run-off level. Wheels riding below water run-off level and wheels riding on aluminum surfaces are NOT acceptable

1) Lower Running Carriage Carrying Capacity: 440 lbs. (200 kg)

**Item 7.** Refer to Section 08 62 00 UNIT SKYLIGHTS.

- a. Revise article 1.5 subsection B.1. to read:
  - 1. Refer to Section 01 81 13, LEED Design Requirements.

**Item 8.** Refer to Section 09 65 13 RESILIENT WALL BASE AND ACCESSORIES.

- a. Revise article 1.4 subsection C. to read:
  - C. Sustainable Design Submittals:
    - 1. Comply with requirements of Section 01 81 13
    - 2. Product Data: For adhesives, indicating VOC content.
    - 3. Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.
    - 4. Product Data: For chemical-bonding compounds, indicating VOC content.
    - 5. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating costs for each product having recycled content.
    - 6. Laboratory Test Reports: For chemical-bonding compounds, indicating compliance with requirements for low-emitting materials.
    - 7. Laboratory Test Reports: For flooring products, indicating compliance with requirements for low-emitting materials.

**Item 9.** Refer to Section 09 65 20 RESILIENT ATHLETIC FLOORING.

- a. Revise article 1.4 subsection C. to read:
  - C. Sustainable Design Submittals:
    - 1. Product Data:
      - a. For adhesives, indicating VOC content.
      - b. For chemical-bonding compounds, indicating VOC content.
      - c. For sealants, indicating VOC content.
    - 2. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating costs for each product having recycled content.
    - 3. Laboratory Test Reports:
      - a. For adhesives, indicating compliance with requirements for low-emitting materials.
      - b. For chemical-bonding compounds, indicating compliance with requirements for low-emitting materials.
      - c. For sealants, indicating compliance with requirements for low-emitting materials.
      - d. For flooring products, indicating compliance with requirements for low-emitting materials.

### **Electrical Specifications**

**Item 1.** Refer to Section 26 27 26 WIRING DEVICES is revised.

- a. Add: Subparagraph 2.3, D., 4. to read:
  - Controlled Duplex Receptacles: Leviton Model 5362-S2. Provide in color blue.

**Item 2.** Refer to Section 26 31 00 SOLAR ENERGY ELECTRICAL POWER is revised.

- a. Modify Subparagraph 1.3, B., to read:  
Review Section 26 05 00 for all requirements. Provide all documentation required to comply with Credit EA 5 Renewable Energy Production for the 5% renewable energy (2 points for (except Core and Shell)). This requirement is a minimum. The Contract Document requirements are based on a Bidder Designed 25kW system. Provide the larger of the two.

### **DRAWING MODIFICATIONS**

The following Contract Drawings are revised:

#### **Civil Drawings**

**Item 1.** Refer to Sheet C2.0 DEMOLITION PLAN.

- a. Replace sheet issued for bid with sheet provided by this addendum -includes revisions to demolition plan notes for construction fencing and protection of existing Goodwill wall and footing along east property line adjacent to Rite-Aid foundation. A schedule of existing hardscape depths tables is added.

**Item 2.** Refer to Sheet C3.0 TESC PLAN.

- a. Replace sheet issued for bid with sheet provided by this addendum -revised to include notation for contractor to transfer existing NOI WADOE permit from City of Kirkland to Contractor and be responsible for all transfer fees.

**Item 3.** Refer to Sheet C7.3 WATER QUALITY TREATMENT DETAIL -BIOPOD BIOFILTER.

- a. Replace sheet issued for bid with sheet provided by this addendum -revised for Biopod water quality structure layout detail to be consistent with structure shown on plan view on Sheet C7.0 and C7.0A.

**Item 4.** Refer to Sheets C8.0 NE 132<sup>ND</sup> STREET PLAN & PROFILE, C8.1 NE 132<sup>ND</sup> STREET PLAN & PROFILE, C8.2 NE 132<sup>ND</sup> STREET PLAN & PROFILE and C8.3 NE 132<sup>ND</sup> STREET PLAN & PROFILE.

- a. Replace sheets issued for bid with sheets provided by this addendum - revised to include pavement lane marking restoration in NE 132nd Street and background utility information based on revisions issued for NUD sewer and water plan sets.

**Item 5.** Refer to Sheets C4.0 HORIZONTAL CONTROL AND PAVING PLAN, C5.0 UTILITY PLAN, C6.0 FOUNDATION DRAINAGE PLAN, C7.0 GRADING AND DRAINAGE PLAN, C7.0A GRADING AND DRAINAGE PLAN – BID ALTERNATE DETENTION VAULT, and C8.4 NE 132<sup>ND</sup> STREET SECTION AND DETAILS.

- a. Replace sheets issued for bid with sheets provided by this addendum – revised to provide consistent background utility information based on revisions issued for NUD sewer and water plan sets.

**Item 6.** Refer to Sheets UT1.0 COVER SHEET, UT1.1 GENERAL NOTES, UT2.0 WATER UTILITY PLAN, and UT3.0 SEWER UTILITY PLAN

- a. Replace sheets issued for bid with W1.0 COVER SHEET AND NOTES and W2.0 WATER UTILITY PLAN provided by this addendum -revised for 10” water main (265 LF) relocation within NE 132nd Street and extension of new onsite 8” WM to north and east PL per NUD review.
- b. Replace sheets issued for bid with S1.0 COVER SHEET AND NOTES and S2.0 SEWER UTILITY PLAN AND PROFILE provided by this addendum - revised sewer layout to provide

single connection to sewer main per NUD review.

**Architectural Drawings**

**Item 1.** Refer to Sheet A2.2 FLOOR PLAN

- a. Replace sheet issued for bid with sheet provided by this addendum -to correct for issues at the exterior envelope.

**Item 2.** Refer to Sheet A3.1 ELEVATIONS

- a. Replace sheet issued for bid with sheet provided by this addendum -to provide color selections and correct material tags.

**Item 3.** Refer to Sheet A3.2 ELEVATIONS

- a. Replace sheet issued for bid with sheet provided by this addendum -to provide color selections and correct material tags.

**Item 4.** Refer to Sheet A2.2 ROOF PLAN

- a. Refer to attached sketch AD2 ASK1 Partial Roof Plan at Entry Canopy for revisions to roof plan.

**Item 5.** Refer to Sheet A4.1 BUILDING SECTIONS

- a. Refer to attached sketch AD ASK2 Revised East-West Section Thru Lobby for revision to building section 6/A4.2.

**Item 6.** Refer to Sheet A5.3 AWNING DETAILS

- a. Replace detail 8 with attached sketch AD2 ASK3 Revised Awning @ HPL/Metal Transition.
- b. Replace detail 11 with attached sketch AD2 ASK4 Revised Awning at Metal Siding.

**Item 7.** Refer to Sheet A5.4 CANOPY DETAILS

- a. Replace detail 13 with attached sketch AD2 ASK5 Revised Entry Canopy E/W Section
- b. Replace detail 17 with attached sketch AD2 ASK6 Revised Entry Canopy at HPL
- c. Replace detail 18 with attached sketch AD2 ASK7 Revised Entry Canopy at Brick Veneer
- d. Replace detail 19 with attached sketch AD2 ASK8 Revised Entry Canopy N/S Section
- e. Add detail 20 via attached sketch AD2 ASK9 Entry Canopy at Grid L

**Structural Drawings**

**Item 1.** Refer to Sheet S2.1 FOUNDATION PLAN

- a. Detail 17/S3.2 at Apparatus Bay along Grid E between Grids 6 and 9 is revised to Detail 10/S3.2.

**Item 2.** Refer to Sheet S2.2 ROOF FRAMING PLAN

- a. Detail 10/S5.6 along Grid L between Grids 3.3 and 4 revised to 6/S5.6 per AD2 SSK-1 -attached.
- b. Add note at high and low beam near Grid J between Grids 4 and 5: Locate [H] & [L] Beams 6" South of Grid J.
- c. Detail 15/S5.7 at canopy along Grid K is removed.

**Item 3.** Refer to Sheet S3.2 CONCRETE DETAILS

- a. Note on Details 12/S3.2 and 18/S3.2 are revised/added to read: Masonry Veneer per Arch'1 (Where Occurs) W/ Anchors per 12/S7.1 (Where Occurs).

**Item 4.** Refer to Sheet S3.3 CONCRETE DETAILS

- a. Detail 20/S3.3 thickened slab edge extents is revised from 1'-6" to 2'-0".

**Item 5.** Refer to Sheet S5.1 TYPICAL METAL DECK DETAILS

- a. Note 6 of Detail 5/S5.1 is revised to reference Detail 13/S5.1.

**Item 6.** Refer to Sheet S5.6 ROOF FRAMING DETAILS

- a. Detail 6/S5.6 is added by AD2 SSK-1 -attached.
- b. Detail 13/S5.6 is revised to show 8" deck edge dimension with a cont. bent plate per AD2 SSK-4 -attached.
- c. Details 10/S5.6 and 2/S5.6 revise note per Structural Drawings Item 3a -above.

**Item 7.** Refer to Sheet S5.7 CANOPY STEEL DETAILS

- a. Detail 15/S5.7 revise note per Structural Drawings Item 3a -above.

**Item 8.** Refer to Sheet S5.8 MISC. STEEL DETAILS

- a. Detail 18/S5.8 replace 6'-0" kicker support post dimension with: 6'-0" Unless Otherwise Noted Per Plan.

**Item 9.** Refer to Sheet S6.1 BRACED FRAME ELEVATIONS

- a. BF-5 is revised per AD2 SSK-2 -attached.

**Item 10.** Refer to Sheet S6.2 BRACED FRAME DETAILS

- a. Table of 10/S6.2 is revised per AD2 SSK-3 -attached.

**Mechanical Drawings**

**Item 1.** Refer to Sheet M1.0 COVER SHEET

- a. See revised control symbols on AD2 MSK-1 -attached.

**Item 2.** Refer to Sheet M1.3 SCHEDULES

- a. Replace ERV schedule as provided on AD2 MSK-2 -attached.

**Item 3.** Refer to Sheet M1.4 SEQUENCE OF OPERATIONS

- a. See revised sequence on AD2 MSK-3 -attached.

**Electrical Drawings**

**Item 1.** Refer to Sheet E0.1 ELECTRICAL LEGEND AND DRAWING INDEX

- a. Revise receptacle definition from "SWITCHED (SPLIT) DUPLEX RECEPTACLE" to "SWITCHED DUPLEX RECEPTACLE" per attached sketch AD2 ESK-1.

**Item 2.** Refer to Sheet E0.3 MECHANICAL EQUIPMENT CONNECTION SCHEDULE

- a. Replace sheet issued for bid with the sheet provided in this addendum – to correct for font/text legibility issues.

**Item 3.** Refer to Sheet E0.4 LIGHTING FIXTURE SCHEDULE

- a. Replace sheet issued for bid with the sheet provided in this addendum – to correct for font/text legibility issues.

**Item 4.** Refer to Sheet E1.1 ELECTRICAL SITE PLAN

- a. Revise Flag Note 27 per attached sketch AD2 ESK-2.
- b. Add homerun at site artwork per attached sketch AD2 ESK-2.

**Item 5.** Refer to Sheet E2.1 POWER FLOOR PLAN

- a. Revise receptacle on north wall of FF WORK ROOM 103 from switched duplex to switched double duplex per attached sketch AD2 ESK-3.
- b. Revise apparatus bay drop cord circuit wire size from #12 to #10 per attached sketch AD2 ESK-4.

**Item 6.** Refer to Sheet E8.5 ELECTRICAL DETAILS

- a. Revise Detail 5 title from “DETAIL – NEDERMAN CONTROL PANEL DETAIL” to “DETAIL – KITCHEN HOOD AND MAU WIRING DETAIL”.

**Item 7.** Refer to Sheet E10.2 PANEL SCHEDULES

- a. Revise Panel P3 schedule to add GFCI breakers at drop cord circuits per attached sketch AD2 ESK-5.

**Item 8.** Refer to Sheet EL1.2 SITE LIGHTING CALCULATION PLAN

- a. Replace sheet issued for bid with the sheet provided in this addendum – to correct for font/text legibility issues.

**SUBSTITUTION REQUESTS**

(To be issued by future addendum)

**REPLACEMENT SHEET FILE NAMES**

- a. 20200810\_FS24\_Bid\_Add2\_Civil\_Sheets.pdf (17 Sheets)
- b. 20200810\_FS24\_Bid\_Add2\_Arch\_Sheets.pdf (3 Sheets)
- c. 20200810\_FS24\_Bid\_Add2\_Elec\_Sheets.pdf (3 Sheets)

Sincerely,

*Anneke Davis*

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**Anneke J. Davis, P.E.  
Senior Project Engineer**

*Rod Steitzer*

8/11/2020

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**Rod Steitzer, P.E.  
Capital Projects Manager**



**MEETING SIGN-IN**

**MANDATORY PRE-BID CONFERENCE**

Central of Kirkland Fire Station 24

				Date:	August 4, 2020
	<b>Name and Title</b>	<b>Company</b>	<b>Phone</b>	<b>Time</b>	<b>GC?</b>
1	Jim Setiz	Petra Inc.	425-396-4570	7:51a	GC
2	Caprice Hochstrasser	Plats Plus, Inc.	425-508-9570	7:54a	Civil
3	David Yi	Bayley Construction	206-573-3852	7:55a	GC
4	Ray Shoemaker	Western Ventures Construction	360-391-4383	7:55a	GC
5	Jared Wilson	Osborne Construction	313-460-9695	7:55a	GC
6	Jordan Swanson	Osborne Construction	425-898-3991	7:55a	GC
7	Kyle Lubash	Kassle and Associates	425-828-0236	7:55a	GC
8	Brian Fry	Cascade Civil Construction	253-208-0230	7:55a	Civil
9	Milo Sligar	Interwest Construction Inc.	360-757-7574	7:55a	GC
10	Randy Vitovitz	Security 101	425-686-8558	7:59a	Security
11	James Stewart	Security 101	425-686-8558	7:59a	Security
				Date:	August 6, 2020
	<b>Name and Title</b>	<b>Company</b>	<b>Phone</b>	<b>Time</b>	<b>GC?</b>
1	Aaron Steinke	Synergy Inc.	206-510-0136	7:51a	GC
2	Richard Balster	Osborne Construction	206-399-1033	7:52a	GC
3	Phil Parks	Vecca Electric	360-303-7672	7:53a	Electric
4	Mike Lawson	Wachter	206-247-9251	7:54a	Electric
5	Cory Walsh	Wachter	406-369-7785	7:54a	Electric
6	James Schwartz	Kirtley Cole	425-231-8426	7:55a	GC
7	Jesse Galligan	Orion	253-279-6809	7:55a	Civil
8	Bryon Hinds	Key Mechanical	206-678-5476	7:56a	Mechanical
9	Jim Bristow	Wrecking Ball Demo	425-238-0507	7:58a	Demo
10	Randy Vitovitz	Security 101	425-686-8558	7:59a	Security

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- A. Work includes but is not limited to: Furnishing, installing and maintaining required temporary erosion and sediment control (TESC) measures for the duration of construction activities. Adjustments of TESC measures as necessary based on site conditions. Removal and disposal of TESC measures upon completion of construction.

1.2 RELATED SECTIONS

- A. Coordinate and comply with the following sections:
  - 1. 02 41 00 – Demolition
  - 2. 31 00 00 – Earthwork

1.3 REFERENCE STANDARDS

- A. The City of Kirkland (COK) pre-approved plans and policies, January 1, 2020 edition.
- B. Washington Department of Transportation (WSDOT) Standard Specifications and Standard plans for Road, Bridge and Municipal Construction, 2020 edition.
- C. King County Surface Water Design Manual KCSWDM, 2016 edition, and COK Policy D-10, Addendum to 2016 KCSWDM.
- D. NPDES Stormwater Discharge Permit for Construction
- E. The Standard Specifications apply only to the construction requirements and materials and how they are to be incorporated into the Work. If referenced standards conflict the more stringent specification shall apply. The legal/contractual relationship sections and the measurement and payment sections do not apply to this document.

1.4 LEED

- A. This project is targeting LEED gold certification from the US Green Building Council. It is the contractor's responsibility to familiarize themselves with this program, to determine which points in the system that are relevant for this project are influenced by their work, and to meet the requirements of those sections for this project. Review Section 01 81 13 for Low-emitting Materials, Regional Materials and Recycled Content submittal requirements.

1.5 SUBMITTALS

- A. See Division 1 Submittal Procedures
- B. Construction Stormwater Pollution Prevention Plan (CSWPPP): Contractor shall review and update CSWPPP in accordance with KCSWDM and COK pre-approved plans and policies and submit to COK for review and approval. Contractor shall revise and resubmit to address comments from COK. CSWPPP shall identify Certified Erosion and Sediment Control Lead (CESCL) and backup per CESCL qualifications below.
  - A. The CESCL shall be responsible for implementing and maintaining effective ESC to prevent violations of the NPDES permits. Contractor shall submit current certification document of CESCL and CESCL backup and shall meet qualifications below :
    - 1. The designated CESCL and CESCL backup shall have current certification and a minimum of two years in the State of Washington Department of Ecology's (WADOE) Training and Certification program for CESCL (<http://www.ecy.wa.gov/programs/wq/stormwater/cescl.html>).
    - 2. CESCL shall have minimum three projects of similar nature listed on resume identifying project name and location, year constructed, owner, contact name and phone number..
    - 3. CESCL backup shall have minimum one project of similar nature listed on resume identifying project name and location, year constructed, owner, contact name and phone number.
  - B. Contractor shall prepare and submit a water quality monitoring plan for turbidity and pH sampling to monitor dewatering and construction stormwater discharges to the public storm system. Monitoring plan shall be in accordance with applicable state laws and requirements of COK and WADOE.

1.6 PERMITS

- A. Contractor shall obtain all permits including transfer of existing Notice of Intent permit, pay fees, and schedule inspections including but not limited to COK and WADOE for work in this Section.

1.7 QUALITY ASSURANCE

- A. All treated water from the construction site and staging area shall be discharged to the storm drain system. No discharge shall be allowed to the sanitary sewer system.
- B. Discharge shall be treated to meet the turbidity requirements of the WADOE and COK, whichever is more stringent.
- C. Erosion control facilities shall be installed and maintained in conformance with the permit.

- D. No sediment shall be tracked into the street or onto paved surfaces. If sediment is tracked onto paved surfaces, the Contractor shall immediately perform street sweeping to remove sediment from the pavement.

1.8 COORDINATION

- A. Contractor shall coordinate with City of Kirkland to transfer existing Notice of Intent (NOI) WADOE permit from City to the Contractor. Contractor shall be responsible for payment of all transfer fees and maintaining NOI permit coverage for duration of construction.
- B. Coordinate erosion control installation and water quality monitoring with the requirements of COK and WADOE, as applicable.

PART 2 - PRODUCTS

2.1 SILT FENCE

- A. Silt fence shall conform to COK pre-approved plan CK-E.03.

2.2 TEMPORARY PORTABLE SEDIMENT TANKS

- A. Portable sediment tank with filtration treatment shall be Baker Tank or approved equal. Design and sizing of portable sediment tank, filtration and treatment systems shall be by a certified CESCL and shall be design to meet discharge turbidity requirements of COK and WADOE.

2.3 TEMPORARY PUMP AND PIPING

- A. Contractor shall size and provide temporary pumps and piping, as necessary, to discharge construction stormwater from the project site

2.4 INLET PROTECTION

- A. Inlet protection shall conform to COK pre-approved plan CK-E.11.

2.5 TEMPORARY CONSTRUCTION ENTRANCE

- A. Temporary construction entrance shall conform to COK pre-approved plan CK-E.02.

2.6 INTERCEPTOR SWALES

- A. Interceptor swales shall be per Drawings.

2.7 ROCK CHECK DAMS

- A. Rock check dams shall conform to COK pre-approved plan CK-E.07.

2.8 ADDITIONAL EROSION CONTROL MEASURES

- A. Additional erosion control measures based on construction site conditions shall be provided in accordance with COK and/or WADOE requirements, whichever is more stringent.

PART 3 - EXECUTION

3.1 GENERAL

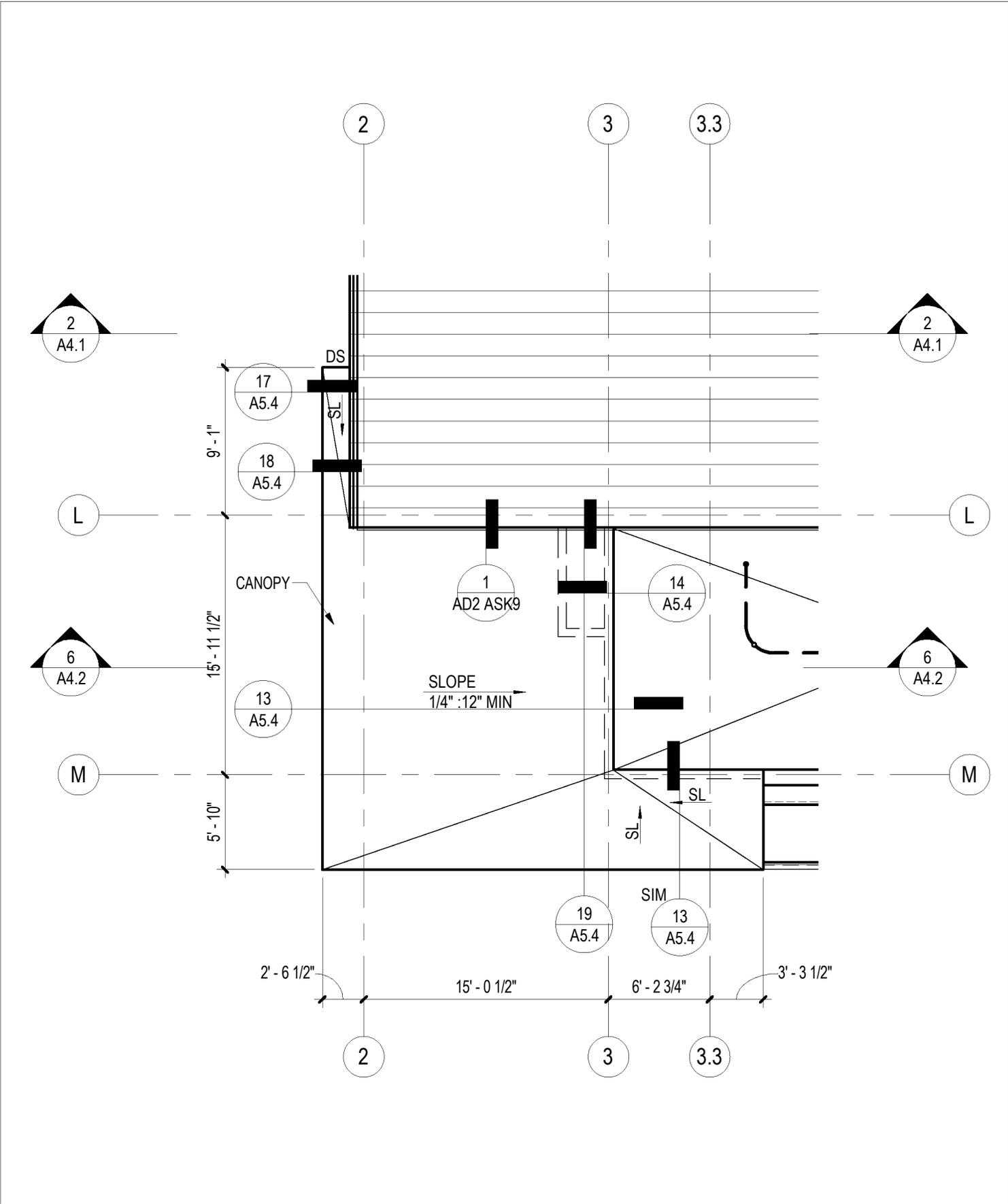
- A. Contractor shall implement the CSWPPP procedures that are specific to this project for the duration of construction activities.

3.2 PERFORMANCE REQUIREMENTS

- A. Contractor shall secure any required permits for discharge of dewatering and construction stormwater runoff and comply with associated permit conditions.
- B. Contractor shall designate a CESCL and CESCL back-up to be responsible for implementing and maintaining TESC measures for the duration of construction activities.
- C. Install temporary construction entrances, equipment wash areas, perimeter protection, and sediment tanks prior to onsite demolition and construction.
- D. Clean and protect storm drain inlets so turbid water does not enter the drainage system.
- E. Construct interceptor swales as needed during grading activities to direct sediment laden water to sump pumps for discharge to temporary sediment tanks.
- F. Make provisions to prevent the transport of sediment onto adjacent paved roads. Provide street sweeping and sediment removal, as needed.
- G. Prior to commencing demolition, grading, and other construction activities, contractor shall arrange inspection and obtain approval with COK inspector for ESC facilities after initial installation.

- H. Operate and maintain erosion control facilities throughout the duration of construction. Provide flow and water quality monitoring results as required by permit agencies.
- I. Discharge from the construction site shall pass through the Temporary Sediment Tanks prior to discharge to the public storm drain system.
- J. Temporary Sediment Tanks shall be supplemented with sand filters, as required, to meet discharge turbidity requirements.
- K. Protect soil stockpiles with plastic sheeting secured to prevent the transport of sediment.
- L. Discharge shall be detained on-site, if necessary, and not exceed COK and WADOE requirements.
- M. At the completion of construction, remove erosion control facilities that are no longer required and clean site.

END OF SECTION



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 6211 ROOSEVELT WAY NE  
 SEATTLE, WA 98115  
 tel: (206) 522-3830

**PARTIAL ROOF PLAN AT ENTRY CANOPY**

Fire Station 24

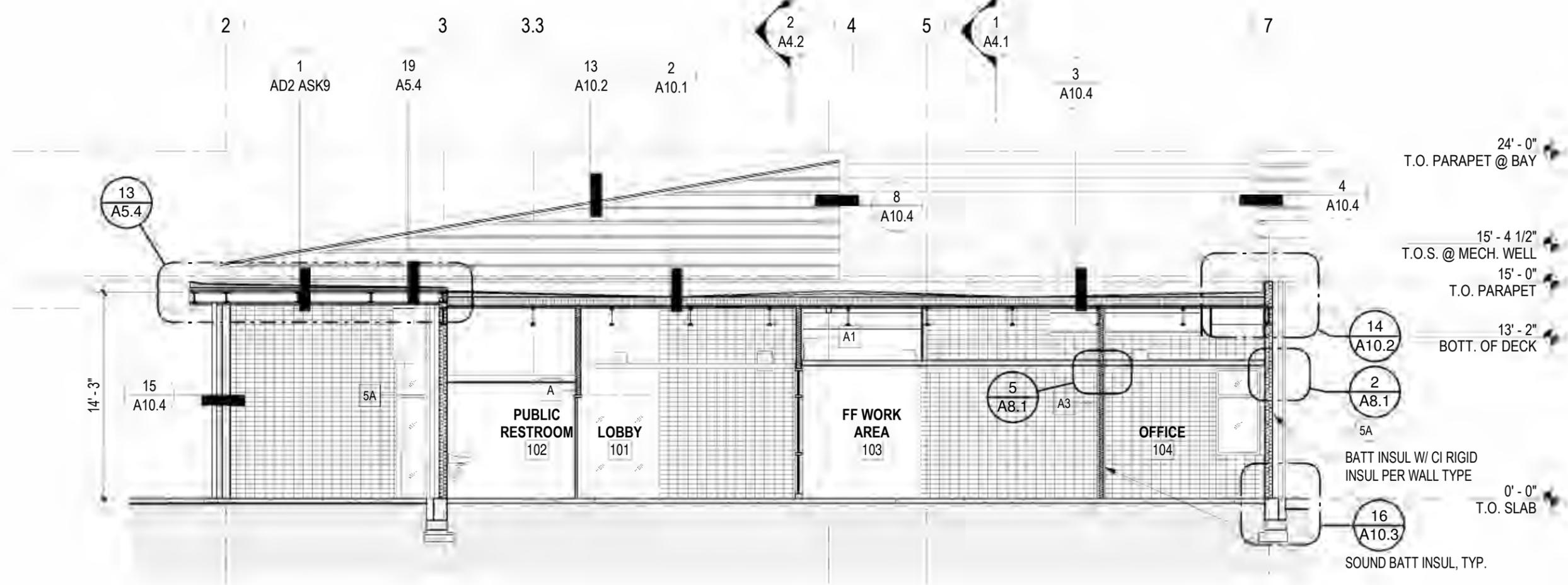
SCALE:  
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DATE:  
 8/10/20

PROJECT NO:  
 16-46

REFERENCE NUMBER:  
**AD2 ASK1**

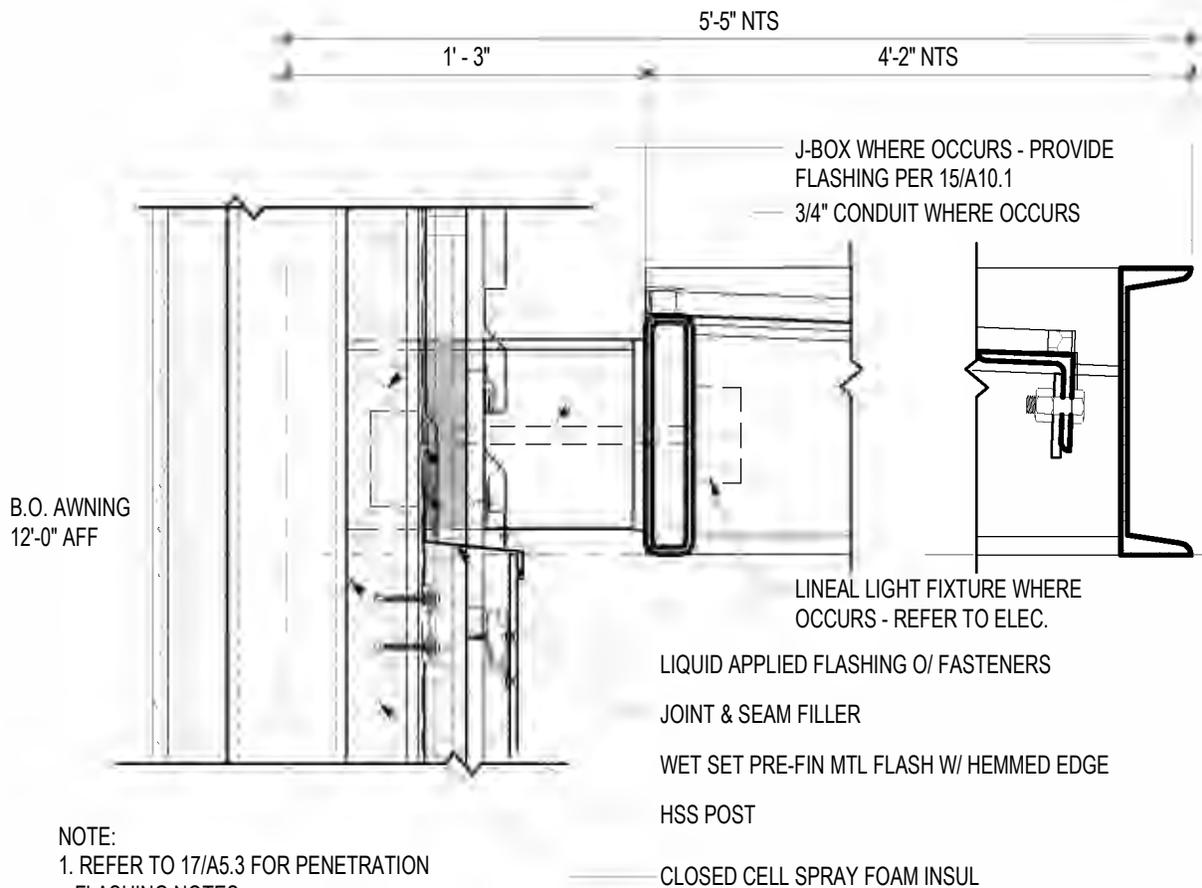
REFERENCE SHEET:  
**A2.2**



**REVISED EAST-WEST SECTION THRU LOBBY**

Fire Station 24

SCALE:	1/8" = 1'-0"	REFERENCE NUMBER:	<b>AD2 ASK2</b>
DATE:	8/10/20	REFERENCE SHEET:	
PROJECT NO:	16-46		<b>6/A4.2</b>



NOTE:  
 1. REFER TO 17/A5.3 FOR PENETRATION FLASHING NOTES  
 2. REFER TO 9/A5.3 FOR BALANCE OF NOTES & DIMS AND EDGE OF AWNING



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**REVISED AWNING @ HPL/ MTL TRANSITION**

Fire Station 24

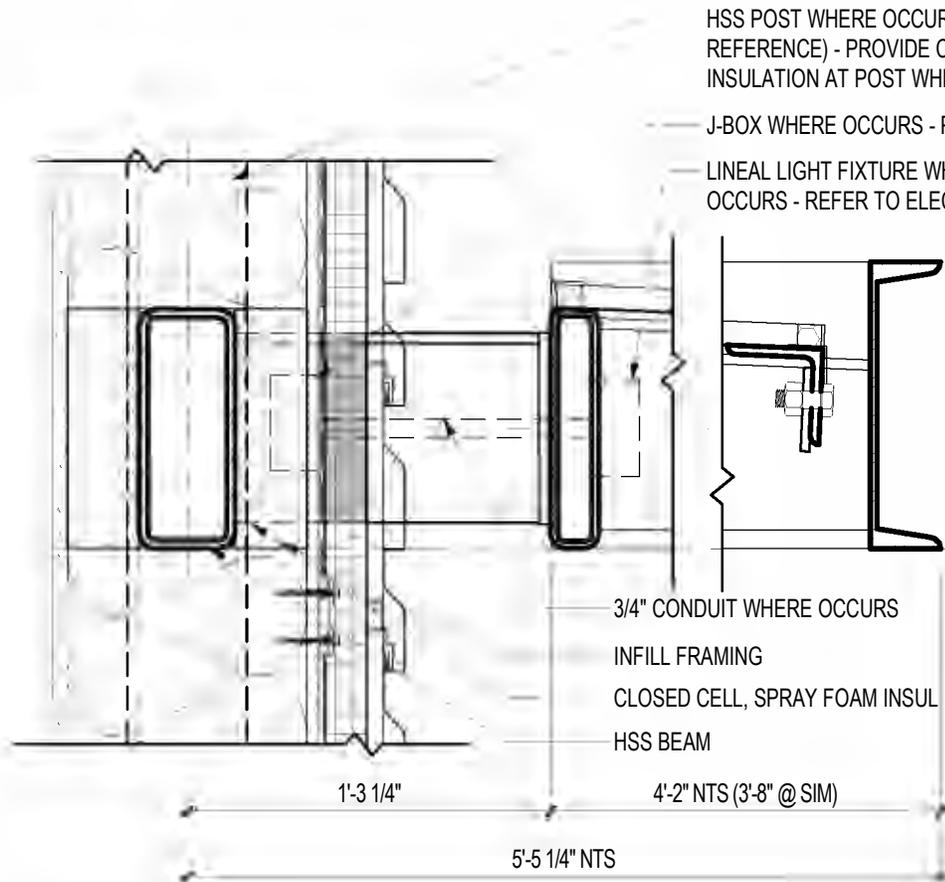
SCALE:  
 1 1/2" = 1'-0"

DATE:  
 8/10/20

PROJECT NO:  
 16-46

REFERENCE NUMBER:  
**AD2 ASK3**

REFERENCE SHEET:  
**8/A5.3**



HSS POST WHERE OCCURS (SHOWN DASHED FOR REFERENCE) - PROVIDE CLOSED CELL, SPRAY FOAM INSULATION AT POST WHERE OCCURS

J-BOX WHERE OCCURS - PROVIDE FLASHING PER 15/A10.1

LINEAL LIGHT FIXTURE WHERE OCCURS - REFER TO ELEC.

B.O. AWNING: 9'-0" AFF

NOTE:

1. REFER TO 17/A5.3 FOR PENETRATION FLASHING NOTES
2. REFER TO 9/A5.3 FOR BALANCE OF NOTES & DIMS AND EDGE OF AWNING



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## REVISED AWNING AT METAL SIDING

Fire Station 24

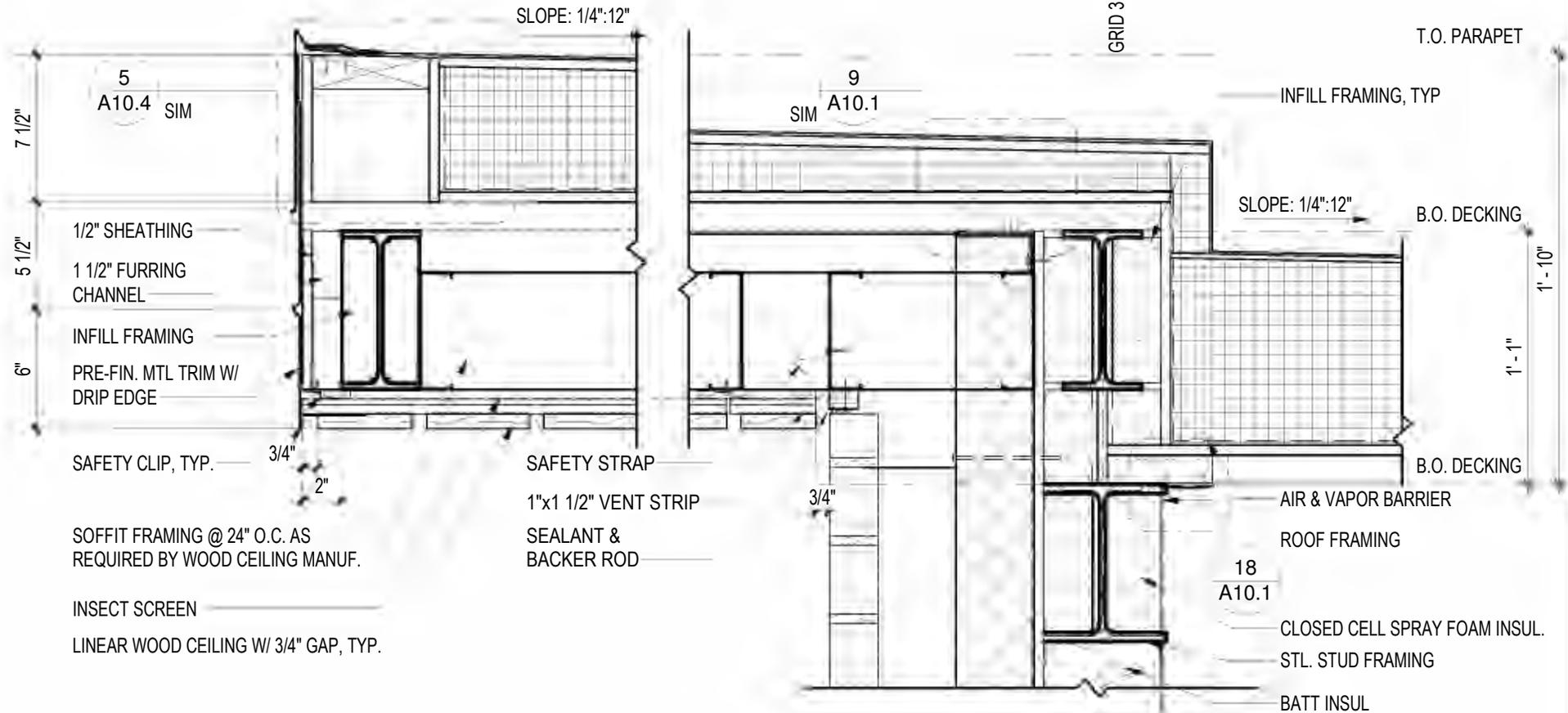
SCALE:  
 1 1/2" = 1'-0"

DATE:  
 8/10/20

PROJECT NO:  
 16-46

REFERENCE NUMBER:  
**AD2 ASK4**

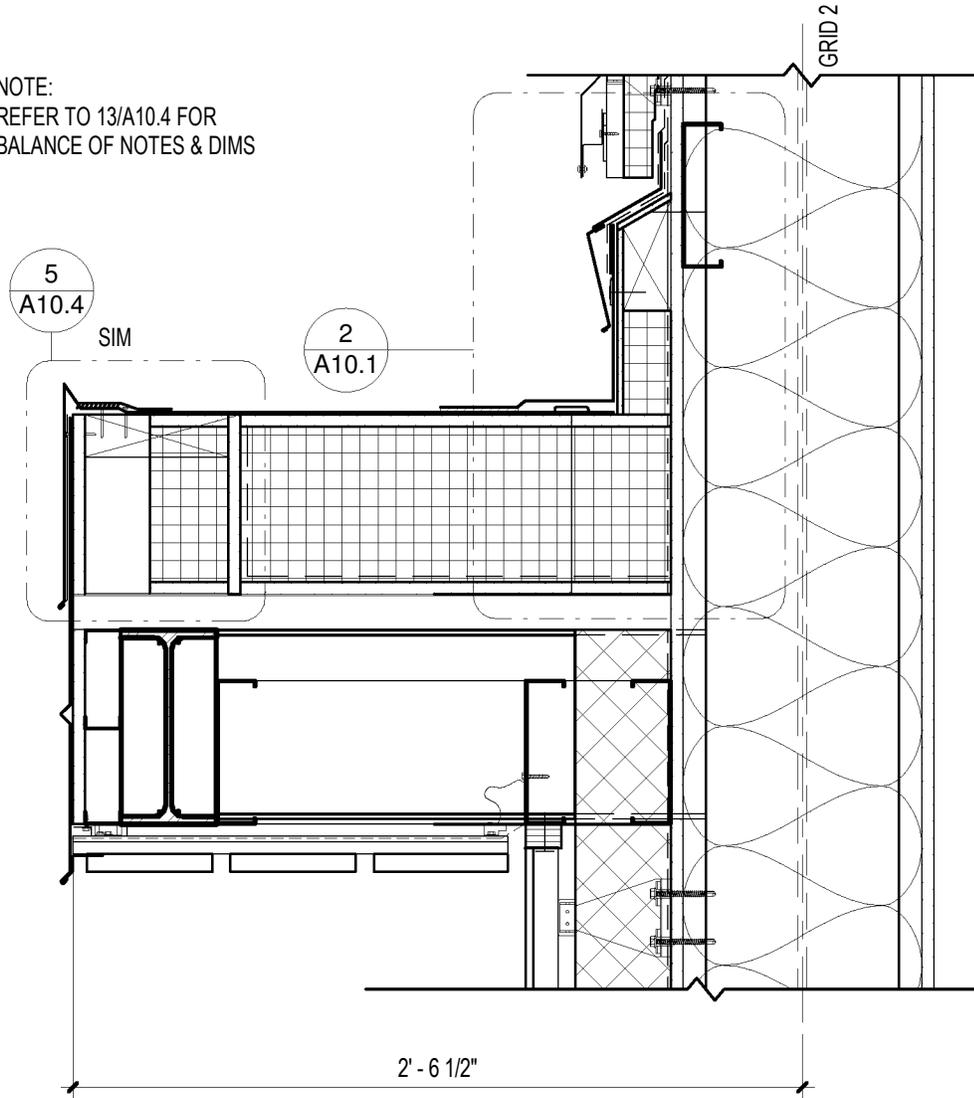
REFERENCE SHEET:  
**11/A5.3**



**REVISED ENTRY CANOPY E/W SECTION**

SCALE: 1 1/2" = 1'-0"	REFERENCE NUMBER: <b>AD2 ASK5</b>
DATE: 8/10/20	REFERENCE SHEET:
PROJECT NO: 16-46	<b>13/A5.4</b>

NOTE:  
REFER TO 13/A10.4 FOR  
BALANCE OF NOTES & DIMS



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**REVISED ENTRY CANOPY AT HPL**

Fire Station 24

SCALE:  
1 1/2" = 1'-0"

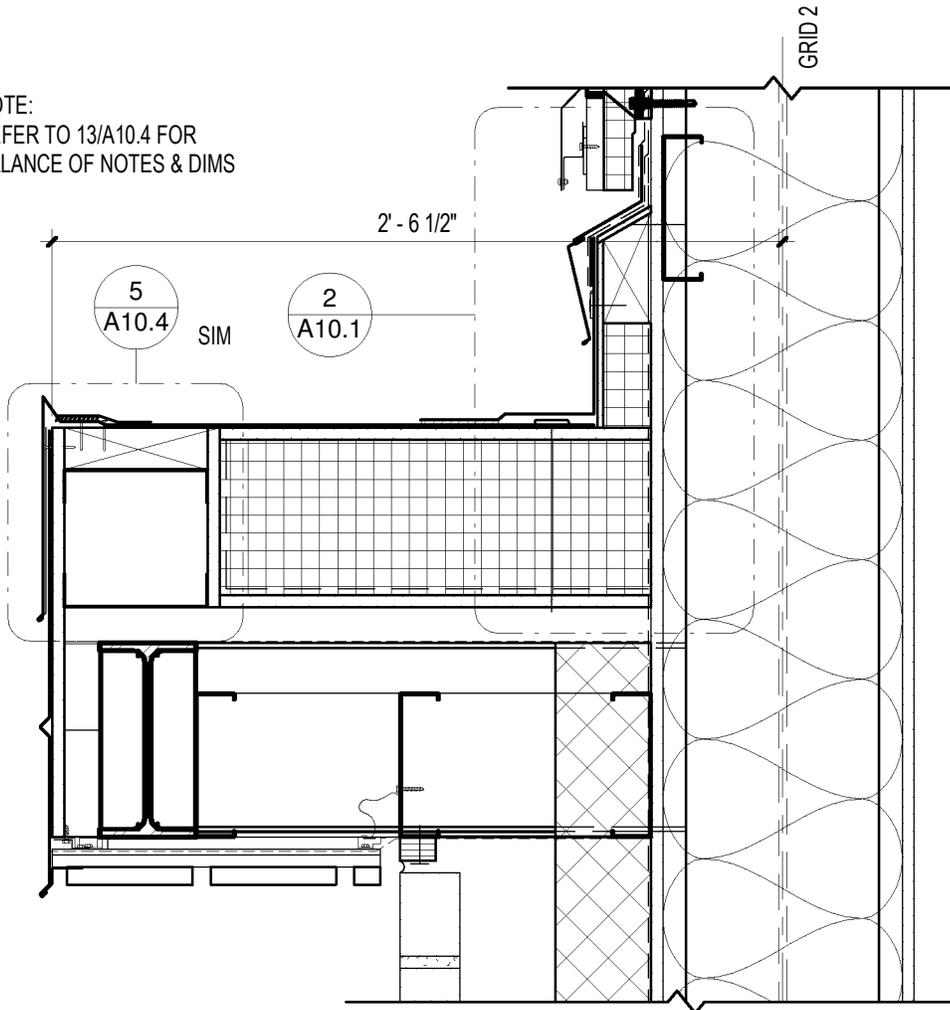
DATE:  
8/10/20

PROJECT NO:  
16-46

REFERENCE NUMBER:  
**AD2 ASK6**

REFERENCE SHEET:  
**17/A5.4**

NOTE:  
REFER TO 13/A10.4 FOR  
BALANCE OF NOTES & DIMS



**T C A**

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**REVISED ENTRY CANOPY AT BRICK VENEER**

Fire Station 24

SCALE:  
1 1/2" = 1'-0"

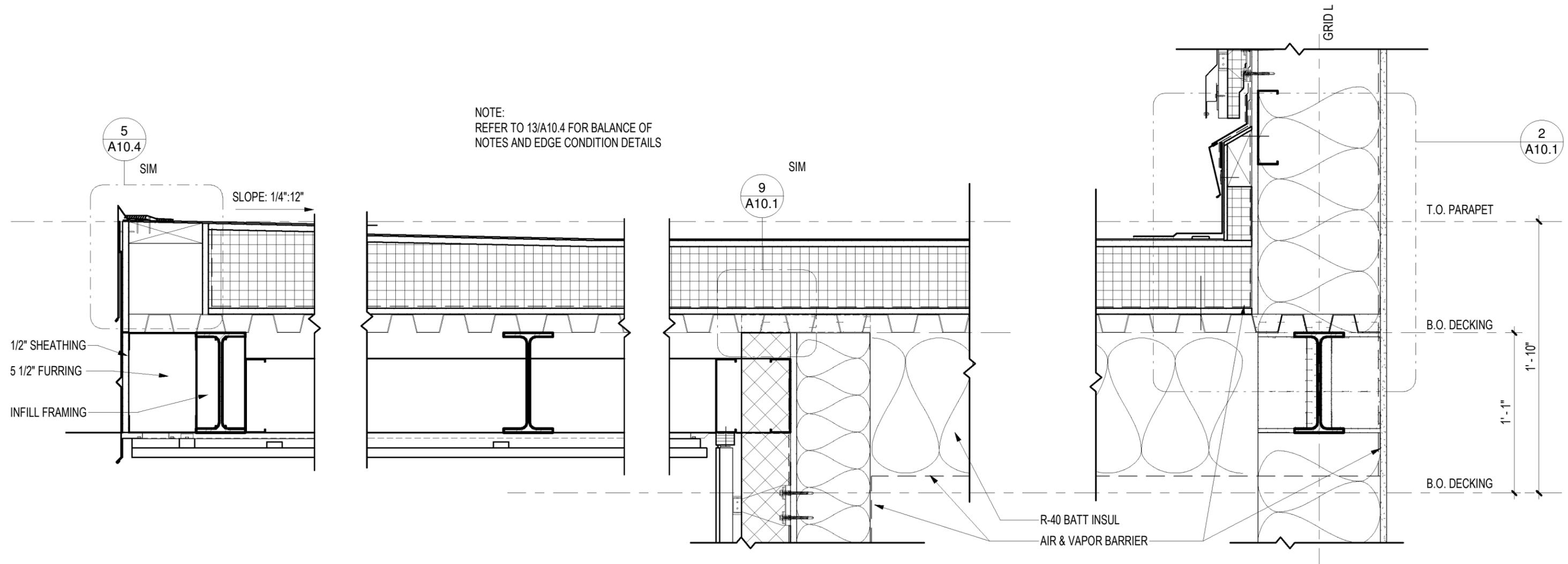
DATE:  
8/10/20

PROJECT NO:  
16-46

REFERENCE NUMBER:  
**AD2 ASK7**

REFERENCE SHEET:  
**18/A5.4**

NOTE:  
REFER TO 13/A10.4 FOR BALANCE OF  
NOTES AND EDGE CONDITION DETAILS

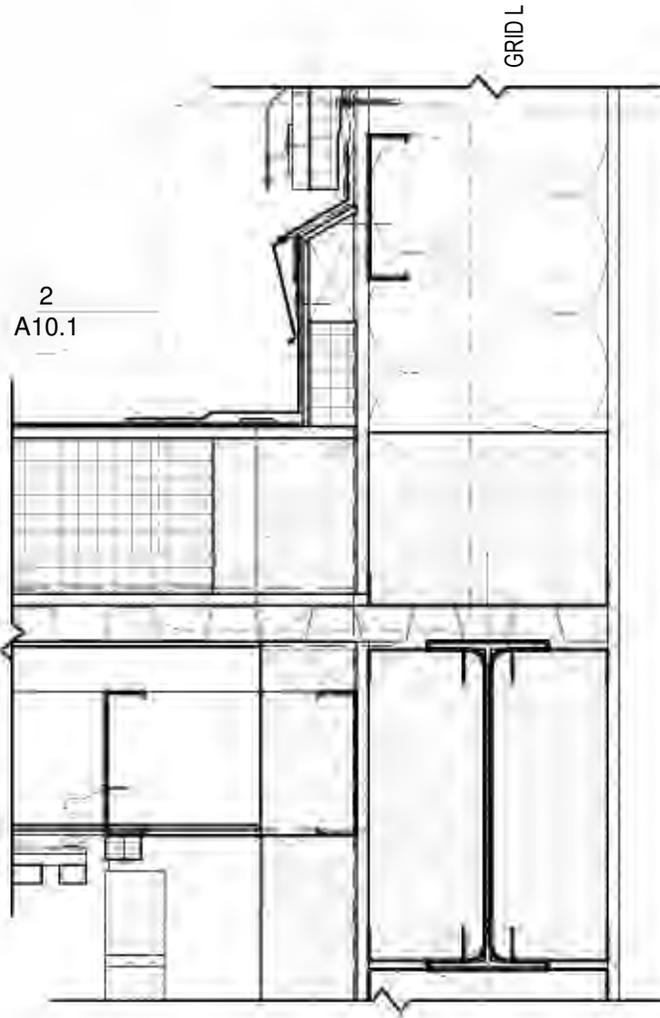


**REVISED ENTRY CANOPY N/S SECTION AT VESTIBULE**

Fire Station 24

SCALE: 1 1/2" = 1'-0"	REFERENCE NUMBER: <b>AD2 ASK8</b>
DATE: 8/10/20	REFERENCE SHEET: <b>19/A5.4</b>
PROJECT NO: 16-46	

NOTE:  
REFER TO 13/A10.4 FOR  
BALANCE OF NOTES & DIMS



T C A

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## ENTRY CANOPY AT GRID L

Fire Station 24

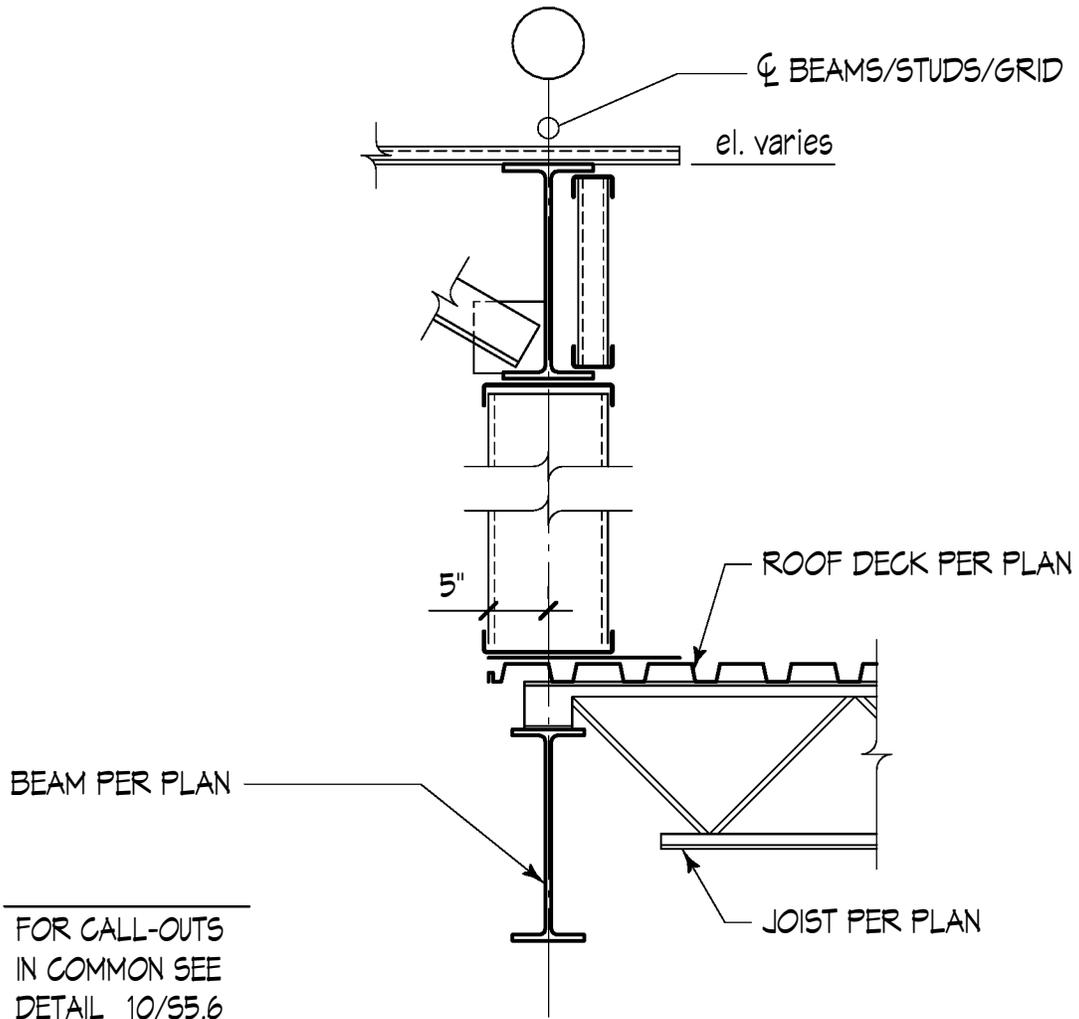
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DATE:  
8/10/20

PROJECT NO:  
16-46

REFERENCE NUMBER:  
**AD2 ASK9**

REFERENCE SHEET:  
**20/A5.4**



AD2  
SSK-1  
NEW 6/S5.6

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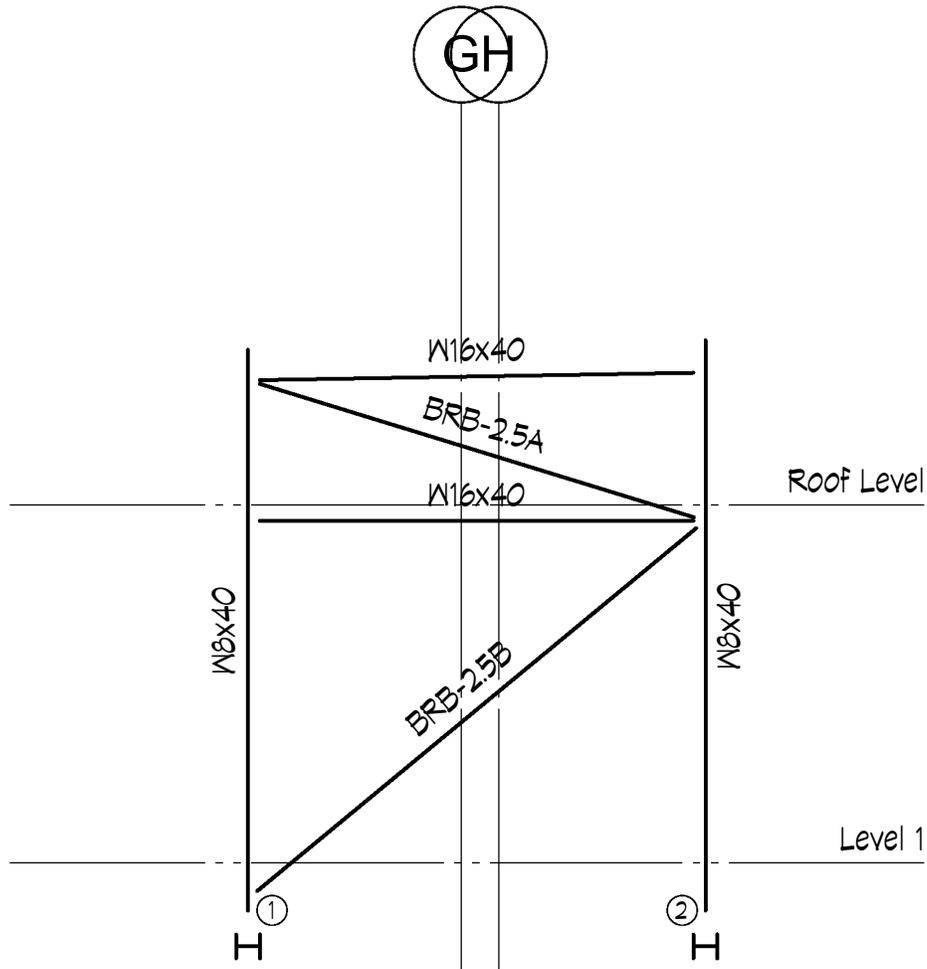
Designed By: KCL

Date: 08/10/2020

Project No: S190211-03 Client: TCA Architecture

Checked By:

Sheet:



AD2  
SSK-2  
REVISED BF-5 ELEV.  
S6.1

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Project: Kirkland Fire Station 24

Designed By: KCL

Date: 08/10/2020

Project No: S190211-03 Client: TCA Architecture

Checked By:

Sheet:

***BUCKLING RESTRAINED BRACE (BRB) SCHEDULE***

<b><i>BRACE MARK</i></b>	<b>BRACE AREA (<math>A_{sc}</math>, in<sup>2</sup>)</b>	<b>STIFFNESS MODIFICATION FACTOR (KF)</b>	<b>COMPRESSION STRENGTH ADJUSTMENT FACTOR (<math>\beta</math>)</b>	<b>STRAIN HARDENING ADJUSTMENT FACTOR (<math>\omega</math>)</b>	<b>MAX CASING SIZE</b>
BRB-2.0A	2.0	1.19	1.10	1.26	HSS 8x8
BRB-2.0B	2.0	1.30	1.11	1.30	HSS 8x8
BRB-2.0C	2.0	1.31	1.11	1.31	HSS 8x8
BRB-2.5A	2.5	1.77	1.11	1.30	HSS 8x8
BRB-2.5B	2.5	1.26	1.11	1.30	HSS 8x8

**AD2  
 SSK-3  
 REVISED 10/S6.2**

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**Project:** Kirkland Fire Station 24

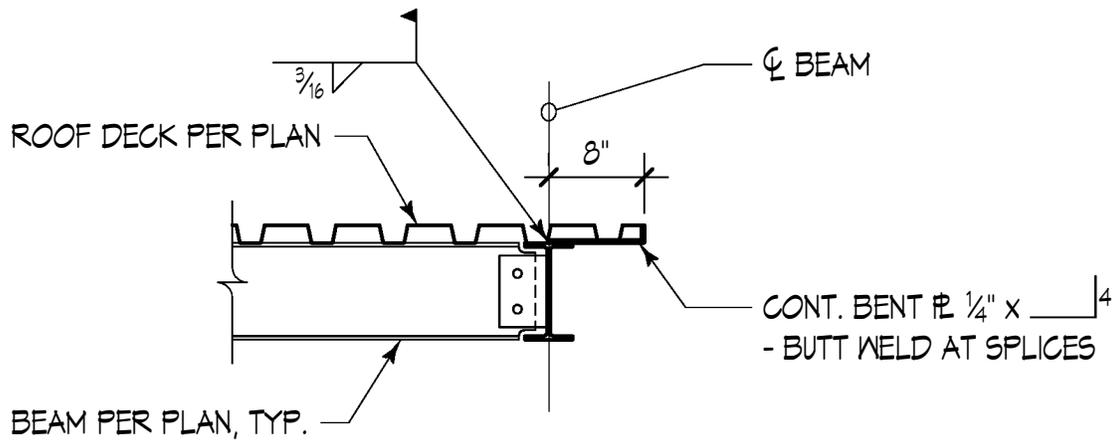
**Designed By:** KCL

**Date:** 08/10/2020

**Project No:** S190211-03 **Client:** TCA Architecture

**Checked By:**

**Sheet:**



AD2  
SSK-4  
REVISED 13/S5.6

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Project: Kirkland Fire Station 24

Designed By: KCL

Date: 08/10/2020

Project No: S190211-03 Client: TCA Architecture

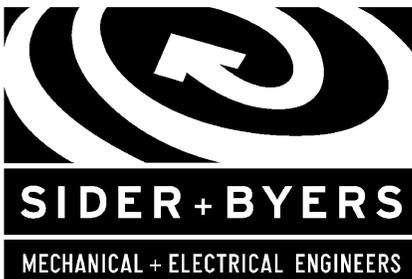
Checked By:

Sheet:

## CONTROL SYMBOLS

---

	VOLUME DAMPER
	MOTORIZED CONTROL DAMPER
	THERMOSTAT IN DUCT
	REMOTE OPERATED VOLUME DAMPER
	BACKDRAFT DAMPER
	PRESSURE INDEPENDENT VOLUME CONTROLLER (TROX VFC)
	PRESSURE INDEPENDENT VOLUME CONTROLLER W/ ACTUATOR (TROX VFC EØ / MØ)
	THERMOSTAT, MOUNT @ 4'-0" A.F.F.
	SENSOR
	CARBON MONOXIDE DETECTOR WITH FAN INDICATED
	CARBON DIOXIDE DETECTOR



192 Nickerson, Suite #300  
Seattle, Washington 98109  
Phone: 206.285.2966

## FIRE STATION 24

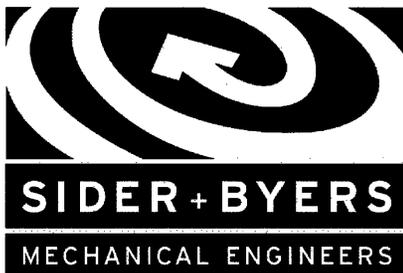
Project number	18040	<b>AD2</b> <b>MSK-1</b> Scale NTS
Date	8/10/20	
Reference Sheet	M1.0	

## ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	MAKE	MODEL	TYPE	SUPPLY			EXHAUST			HEAT EXCHANGER		HEAT			ELECTRICAL				WGT. LBS	NOTES
				CFM	ESP	HP	CFM	ESP	HP	MATERIAL	WINTER EFF.	INPUT	OUTPUT	EFF	MCA	MOCP	VOLT/PH	SCCR		
ERV-1	GREENHECK	ERCH-20-30L	OUTDOOR	1,655	1	2	1,450	1	1.5	WHEEL	72.0%	8.3 kW	SCR	ELEC	48.2	50	208/3	NOTE F	1600	A,B,C,E,G,H,1,2,3,4,5,6,7,8,9,11
ERV-2	GREENHECK	ERCH-20-30L	OUTDOOR	1025-1300	1	1.5	975-1225	1	1.5	WHEEL	82.7%	8.3 kW	SCR	ELEC	47.1	50	208/3	NOTE F	1600	A,B,D,E,G,H,1,2,3,4,5,6,7,8,10,11

**NOTES:**

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>1. DOUBLE WALL CONSTRUCTION W/ INSULATION &amp; HINGED ACCESS</li> <li>2. MERV 8 AND MERV 13 SUPPLY FILTERS; MERV 8 EXHAUST FILTERS</li> <li>3. MOTORIZED INSULATED LOW LEAK SUPPLY AND EXHAUST DAMPERS</li> <li>4. PERMATECTOR FINISH</li> <li>5. INTERNAL NEOPRENE ISOLATION</li> <li>6. INTAKE AND EXHAUST AIR DOWNTURN WEATHER HOODS.</li> <li>7. UNIT SINGLE POINT POWER W/ FAN VFDS</li> <li>8. WHEEL ROTATION SENSOR &amp; DIRTY FILTER SENSORS</li> </ul> | <ul style="list-style-type: none"> <li>9. A9-9 SUPPLY AND A9-9 EXHAUST BLOWERS.</li> <li>10. A10-6 SUPPLY AND A10-6 EXHAUST BLOWERS.</li> <li>11. SEISMIC RATED SPRING CURB</li> </ul> | <ul style="list-style-type: none"> <li>A. MICROPROCESSOR UNIT CONTROL, WITH REMOTE INTERFACE</li> <li>B. DISCHARGE TEMPERATURE CONTROL, SCR HEATER CONTROL</li> <li>C. SUPPLY/EXHAUST FAN CONTROL - CONSTANT VOLUME, W/WFD FOR BALANCING</li> <li>D. SUPPLY FAN CONTROL - DUCT PRESSURE, W/WFD; EXHAUST FAN CONTROL - SUPPLY FAN TRACKING W/WFD</li> <li>E. MODULATING WHEEL FROST CONTROL</li> <li>F. SEE SPECIFICATIONS AND ELECTRICAL</li> <li>G. MODULATING WHEEL ECONOMIZER CONTROL</li> <li>H. OUTDOOR AIR AIRFLOW MONITORING SYSTEM W/ DIGITAL READOUT</li> </ul> |
|--|--|--|



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 Phone: 206.285.2966

## FIRE STATION 24

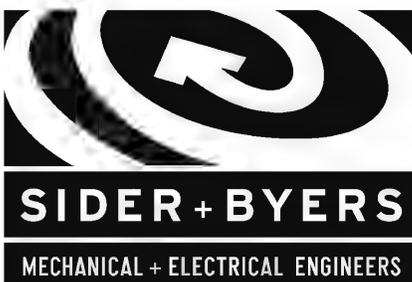
Project number	18040	<b>AD2</b> <b>MSK-2</b> Scale _____ NTS
Date	8/10/20	
Reference Sheet	M1.3	

15. APPARATUS BAY CEILING FANS: CF-1, CF-2

FANS OPERATE WITH MANUFACTURER'S WALL MOUNTED DIGITAL CONTROLLER. CONTROLLER PROVIDES ON/OFF, FAN SPEED AND FORWARD/REVERSE OPERATION.

16. FITNESS CEILING FAN: CF-3

FAN OPERATES WITH MANUFACTURER'S WALL MOUNTED DIGITAL CONTROLLER. CONTROLLER PROVIDES ON/OFF, FAN SPEED AND FORWARD/REVERSE OPERATION.



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## FIRE STATION 24

Project number	18040	<b>AD2</b> <b>MSK-3</b> Scale NTS
Date	8/10/20	
Reference Sheet	<b>M1.4</b>	

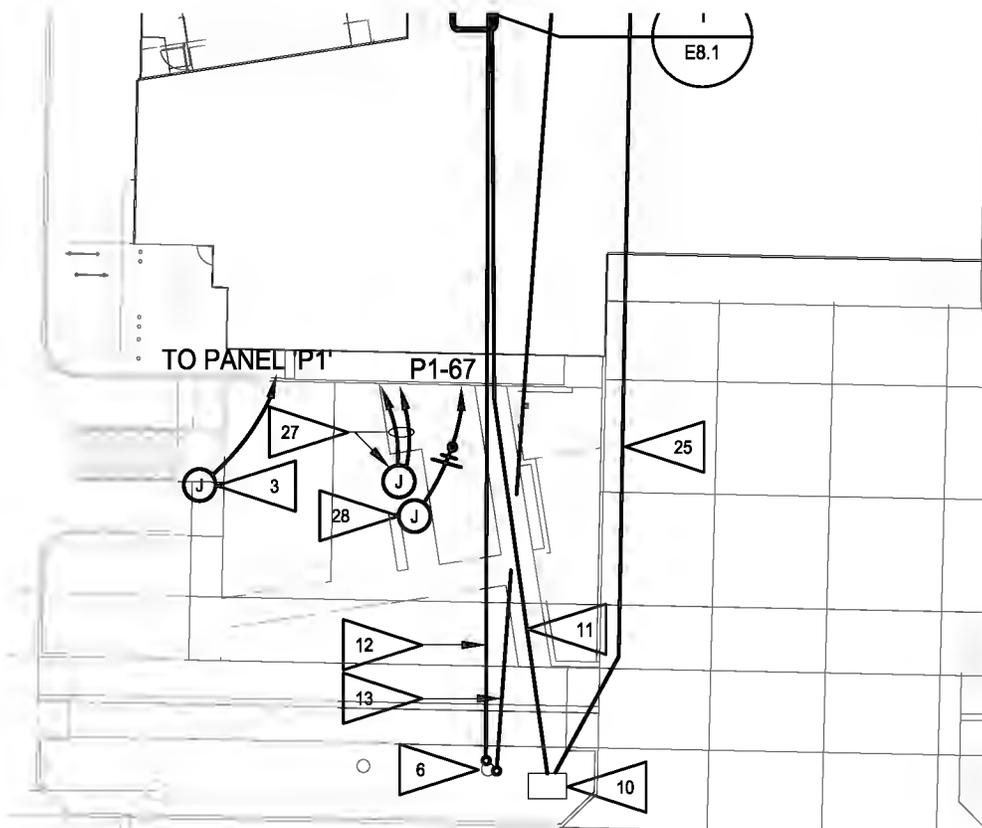
## RECEPTACLES & OUTLETS

---

-  SINGLE RECEPTACLE
-  DUPLEX RECEPTACLE  
(T = TAMPER RESISTANT)
-  DOUBLE DUPLEX RECEPTACLE
-  DUPLEX GFCI RECEPTACLE  
(WP = WEATHERPROOF WHILE-IN-USE COVER)
-  DOUBLE DUPLEX GFCI RECEPTACLE
-  DUPLEX RECEPTACLE MOUNTED IN CEILING
-  DOUBLE DUPLEX RECEPTACLE MOUNTED IN CEILING
-  DUPLEX RECEPTACLE  
(MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH) (U.O.N.)
-  DOUBLE DUPLEX RECEPTACLE  
(MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH) (U.O.N.)
-  DUPLEX GFCI RECEPTACLE  
(MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH) (U.O.N.)
-  DOUBLE DUPLEX GFCI RECEPTACLE  
(MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH) (U.O.N.)
-  DUPLEX RECEPTACLE MOUNTED HORIZONTALLY
-  SWITCHED DUPLEX RECEPTACLE
-  DOUBLE DUPLEX RECEPTACLE WITH 1/2 SWITCHED
-  SINGLE SPECIAL PURPOSE RECEPTACLE
-  JUNCTION BOX WITH BLANK COVER
-  JUNCTION BOX WITH BLANK COVER, WALL MOUNT  
(F = FURNITURE FEED)
-  DOORBELL

# FLAG NOTES


 PROVIDE (1) 1" SCHEDULE-40 PVC CONDUIT WITH MULE/ MARKER TAPE AT 36" BELOW GRADE TO ALERTING RACK IN IT ROOM 115 . PROVIDE (1) ONE 120V:12/24V DC RELAY FOR INTERFACE WITH ALERTING SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ALERTING CONTRACTOR PRIOR TO ORDERING. PROVIDE (1) 1" SCHEDULE-40 PVC CONDUIT WITH MULE/MARKER TAPE AT 36" BELOW GRADE TO LIGHTING CONTROL PANEL IN ROOM 113.



## FRONT SITE ARTWORK CITY OF KIRKLAND

Fire Station 24

  
 ARCHITECTURE + PLANNING + DESIGN  
 6211 ROOSEVELT WAY NE  
 SEATTLE, WA 98115  
 tel: (206) 522-3830

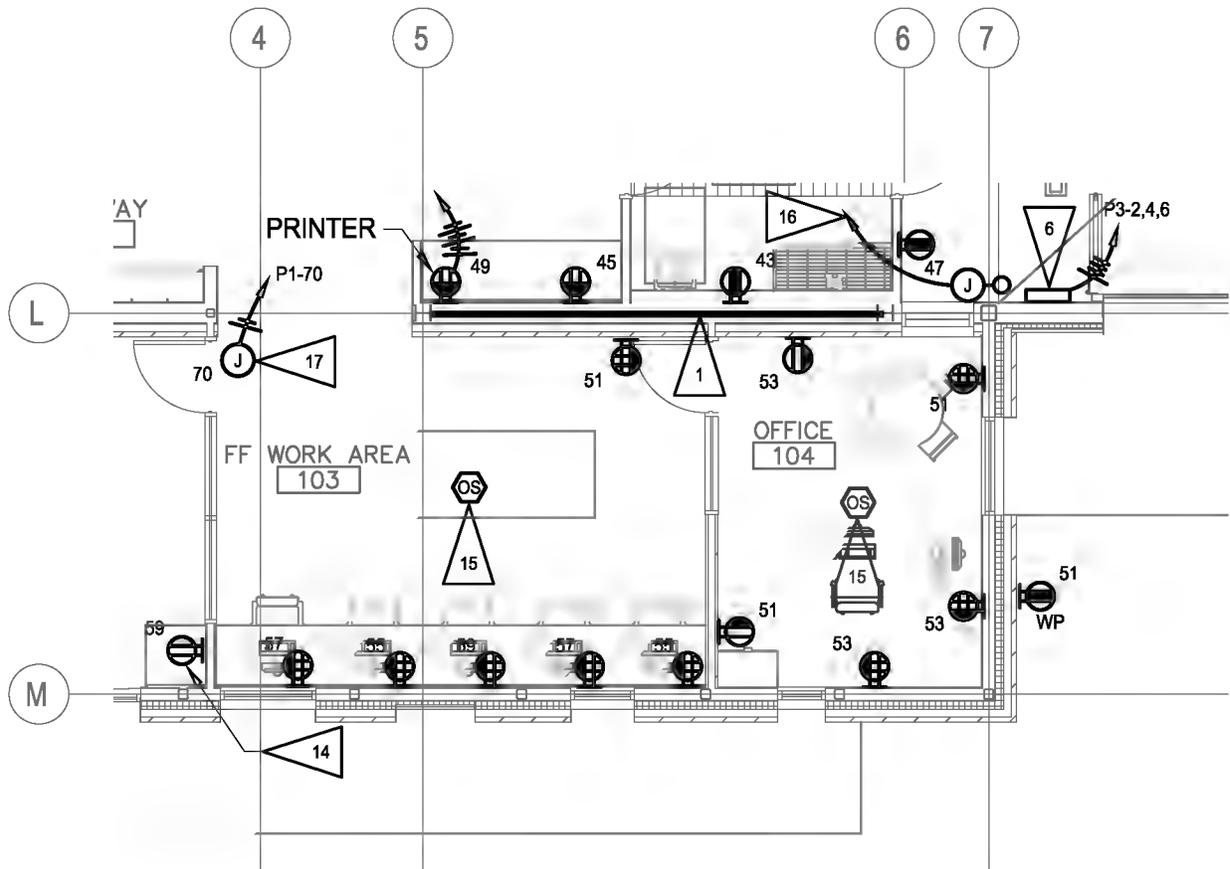
SCALE: 1" = 30'-0"

DATE: 08/10/20

PROJECT NO: 16-46

REFERENCE NUMBER:  
 AD2  
 ESK-2

REFERENCE SHEET:  
**E1.1**



**FF WORK ROOM 103**  
**CITY OF KIRKLAND**

Fire Station 24

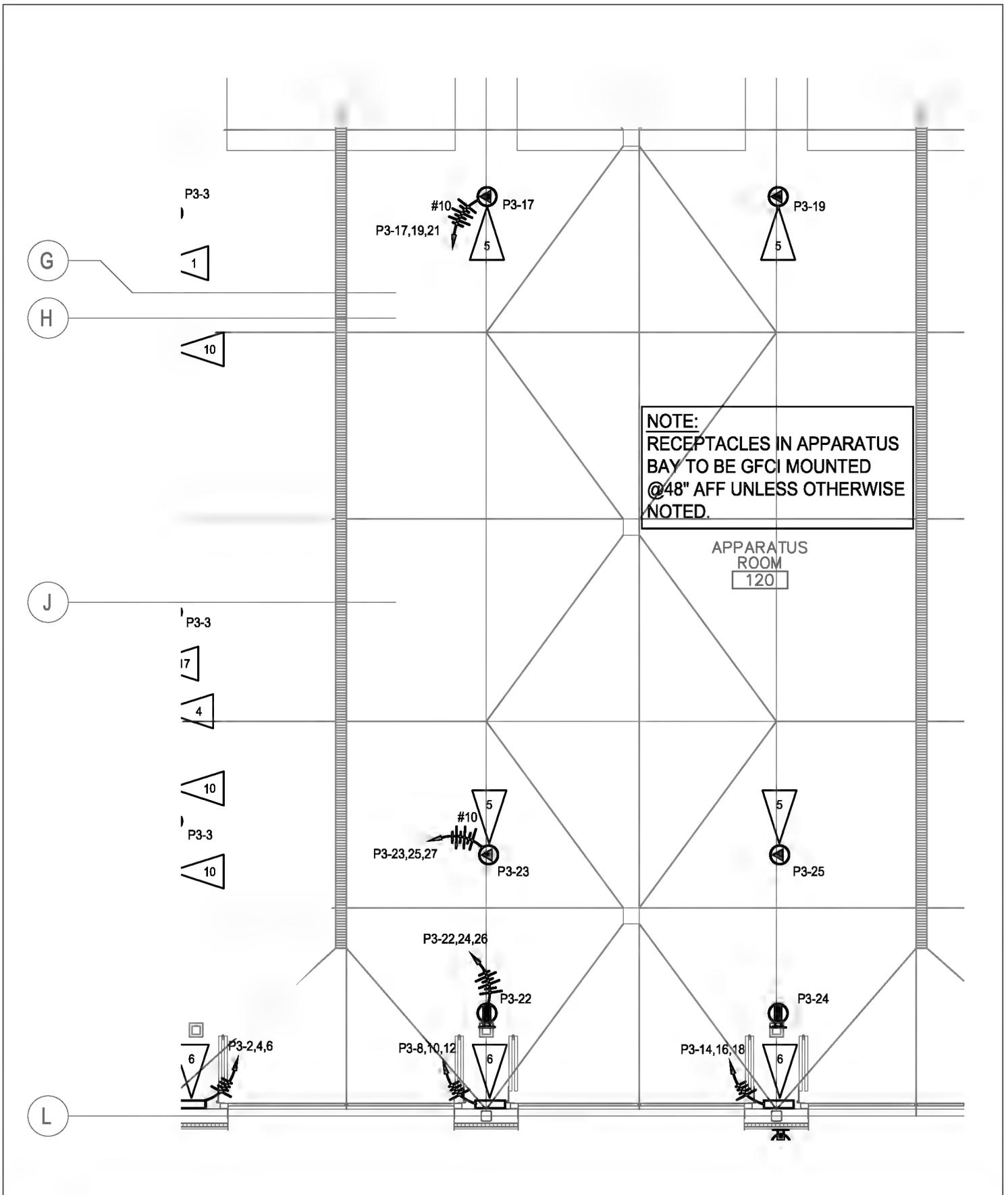
SCALE: 1/8" = 1'-0"

DATE: 08/10/20

PROJECT NO: 16-46

REFERENCE NUMBER:  
**AD2**  
**ESK-3**

REFERENCE SHEET:  
**E2.1**



PANEL 'P3'														
PROJECT NAME: Kirkland Fire Station 24										PROJECT #: 17330				
LOCATION: Kirkland, WA										FED FROM: MDP				
NOTE	CKT NO.	CIRCUIT NAME	CB SIZE		LOAD (KVA)						TOTAL	PANEL DESCRIPTION		
			Ø	AMP	P	R	H	M	L	K			O	
	1	REC - SHOP / APP BAY	A	20	1	0.54							0.54	PANEL AMPS : 400
	3	REC - SHOP / APP BAY	B	20	1	0.72							0.72	FEEDER AMPS : 300
	5	BUNKER GEAR DRYER	C	20	1				1.50				1.50	L - N VOLTS : 208
	7	SPARE	A	20	1									L - N VOLTS : 120
	9	SPARE	B	20	1									PHASE : 3
	11	NORTH ROLL-UP DOOR OPERATOR	C	20	1				1.59				1.59	WIRE : 4
	13	NORTH ROLL-UP DOOR OPERATOR	A	20	1				1.59				1.59	
	15	NORTH ROLL-UP DOOR OPERATOR	B	20	1				1.59				1.59	
	17	NORTH CORD DROP	C	20	1							1.20	1.20	
	19	NORTH CORD DROP	A	20	1							1.20	1.20	M.L.O. <input checked="" type="checkbox"/>
	21	NORTH CORD DROP	B	20	1							1.20	1.20	MAIN CB <input type="checkbox"/>
	23	SOUTH CORD DROP	C	20	1							1.20	1.20	FLUSH <input type="checkbox"/>
	25	SOUTH CORD DROP	A	20	1							1.20	1.20	SURFACE <input checked="" type="checkbox"/>
	27	SOUTH CORD DROP	B	20	1							1.20	1.20	ISO GND <input type="checkbox"/>
	29	SPARE	C	20	1									FEED-THRU <input type="checkbox"/>
	31	EXTRACTOR	A	40	3				3.80				3.80	
	33	-	B	-	-				3.80				3.80	
	35	-	C	-	-				3.80				3.80	
	37	SPARE	A	20	1									
	39	SPARE	B	20	1									
	41	SPARE	C	20	1									
	43	SPACE	A	-	1									
	45	SPACE	B	-	1									
	47	SPACE	C	-	1									
	49	SPACE	A	-	1									
	51	SPACE	B	-	1									
	53	SPACE	C	-	1									
	55	SPACE	A	-	1									
	57	SPACE	B	-	1									
	59	SPACE	C	-	1									
<b>LOAD SUMMARY</b>														
( TOTAL, ALL SECTIONS )														
	2	SOUTH BI-FOLD DOOR CONTROLLER	A	20	3				1.30				1.30	REC KVA : 3.96
	4	-	B	-	-				1.30				1.30	HEAT KVA : 1.30
	6	-	C	-	-				1.30				1.30	MOTOR KVA : 29.37
	8	SOUTH BI-FOLD DOOR CONTROLLER	A	20	3				1.30				1.30	LIGHTING KVA :
	10	-	B	-	-				1.30				1.30	KITCHEN KVA :
	12	-	C	-	-				1.30				1.30	OTHER KVA : 7.50
	14	SOUTH BI-FOLD DOOR CONTROLLER	A	20	3				1.30				1.30	
	16	-	B	-	-				1.30				1.30	PHASE A KVA : 13.67
	18	-	C	-	-				1.30				1.30	AMPS : 114
	20	REC - APPARATUS BAY	A	20	1	0.72							0.72	PHASE B KVA : 13.43
	22	REC - APPARATUS BAY	B	20	1	0.72							0.72	AMPS : 112
	24	REC - APPARATUS BAY	C	20	1	0.54							0.54	PHASE C KVA : 13.73
	26	REC - APPARATUS BAY ROOF	A	20	1	0.72							0.72	AMPS : 114
	28	DOOR HARDWARE POWER SUPPLY	B	20	1						0.30		0.30	
	30	SPARE	C	20	1									
	32	SPACE	A	-	1									
	34	SPACE	B	-	1									
	36	SPACE	C	-	1									
	38	SPACE	A	20	1									
	40	SPACE	B	20	1									
	42	SPACE	C	20	1									
	44	SPACE	A	-	1									
	46	SPACE	B	-	1									
	48	SPACE	C	-	1									
	50	SPACE	A	-	1									
	52	SPACE	B	-	1									
	54	SPACE	C	-	1									
	56	SPD	A	30	3									
	58	-	B	-	-									
	60	-	C	-	-									
<b>NOTES/REMARKS :</b>			<b>DEMAND / DIVERSITY FACTORS</b>											
1. PROVIDE GFCI CIRCUIT BREAKER.			LOAD	DESCRIPTION							DEMAND			
2.			R	RECEPTACLES - TO 10KVA							100%	=	3.96	
3.				REMAINING OVER 10KVA							50%	=		
			H	HEATING							100%	=		
			M	MOTORS							100%	=	17.97	
			LM	LARGEST MOTOR							125%	=	14.25	
			L	LIGHTING							125%	=		
			K	KITCHEN							65%	=		
			O	OTHER							100%	=	7.50	