



ENGINEERING DEPARTMENT

ADDENDUM TO THE CONTRACT

for the

**JNU Snow Removal
Equipment Building**

Contract No. BE16-254/AIP No. 3-02-0133-xxx-2016

ADDENDUM NO.: TWO

**CURRENT DEADLINE FOR BIDS:
July 27, 2016**

PREVIOUS ADDENDA: ONE

ISSUED BY: City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

**PREVIOUS DEADLINE FOR BIDS:
July 26, 2016**

DATE ADDENDUM ISSUED: July 22, 2016

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at:

<http://www.juneau.org/engineering ftp/contracts/Contracts.php>

TECHNICAL SPECIFICATIONS – VOLUME I:

Item No. 1 SECTION 00030 - NOTICE INVITING BIDS. DEADLINE FOR BIDS.

Change the date of the Deadline for Bids **from** July 26, 2016, **to** July 27, 2016. The time remains the same.

Item No. 2 SECTION 06 1600 - SHEATHING, PART 2 – PRODUCTS. **Add** the following Article.

“2.4 FACTORY WOOD TREATMENT

“A. Fire Retardant Treatment:

1. Exterior Type: AWPA U1, Category UCFB, Commodity Specification H, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes both before and after accelerated weathering test performed in accordance with ASTM D2898.
 - a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
 - b. Treat all exterior rough carpentry items.

c. Do not use treated wood in direct contact with the ground

- Item No. 3** SECTION 07 2100 - THERMAL INSULATION, PART 2 – PRODUCTS, Article 2.1 – APPLICATIONS. **Add** the following Paragraph E.
- “E. Insulation Under Exterior Pavement and Slabs: Expanded Polystyrene. Compressive strength is a minimum of 60 PSI (Equivalent to R-20 per 4" thickness).”
- Item No. 4** SECTION 07 2100 - THERMAL INSULATION, PART 2 – PRODUCTS, Article 2.2 – FOAM BOARD INSULATION MATERIALS, paragraph A, Subparagraph 4 - Compressive Resistance. **Revise** to read “60 psi(414 kP a)”.
- Item No. 5** SECTION 07 5400 - THERMOPLASTIC MEMBRANE ROOFING, PART 2 – PRODUCTS, Article 2.1 – MANUFACTURERS, Paragraph A – Thermoplastic Polyolefin Membrane Materials, Subparagraph 2. – Alternate Manufacturer’s. **Add** the following Item No. c.
- “c. Johns Manville; www.jm.com.”
- Item No. 6** SECTION 07 5400 - THERMOPLASTIC MEMBRANE ROOFING, PART 2 – PRODUCTS, Article 2.2 – ROOFING – UNBALLASTED APPLICATIONS, Paragraph B – Roofing Assembly Requirements, Subparagraph 1. **Revise** to read:
- “Roof Covering External Fire Resistance Classification: UL (FRD) Class B.”
- Item No. 7** SECTION 07 5400 - THERMOPLASTIC MEMBRANE ROOFING, PART 2 – PRODUCTS. Article 2.4 – INSULATION, Paragraph A – Molded Expanded Polystyrene (EPS) Board Insulation, Subparagraph 2 - Board Edges. **Revise** read “Square.”
- Item No. 8** SECTION 07 5400 - THERMOPLASTIC MEMBRANE ROOFING, PART 2 – PRODUCTS. Article 2.4 – INSULATION, Paragraph A – Molded Expanded Polystyrene (EPS) Board Insulation, Subparagraph 3 – Board Density. **Revise** to read “1.35 lb/cu ft (22 kg/cu m).”
- Item No. 9** SECTION 07 5400 - THERMOPLASTIC MEMBRANE ROOFING, PART 2 – PRODUCTS. Article 2.4 – INSULATION, Paragraph A – Molded Expanded Polystyrene (EPS) Board Insulation, Subparagraph 5 - Thermal Resistance. **Revise** to read: “R-value of 4.17 per 1 inch (25.4 mm) at 75 degrees F (24 degrees C) mean temperature using ASTM C177 test method.”
- Item No. 10** SECTION 07 5400 - THERMOPLASTIC MEMBRANE ROOFING, PART 2 – PRODUCTS. **Add** the following Article 2.6.
- “2.6 - DECK SHEATHING AND COVER BOARDS.
- A. Deck Sheathing and Cover Board: Glassmat faced gypsum panels, ASTM C1177/C1177M, Fire resistant type, 5/8” inch (16 mm) thick.

Item No. 11 SECTION 07 9513 – SEISMIC AND EXPANSION JOINT COVERS, PART 2 – PRODUCTES, Article 2.1 – MANUFACTURERS, Paragraph A. **Add** the following Subparagraph 4.

“4. Inpro; www.inprocorp.com”.

Item No. 12 SECTION 07 9513 – SEISMIC AND EXPANSION JOINT COVERS, PART 2 – PRODUCTES, Article 2.2 – EXPANSION JOINT COVER ASSEMBLIES, Paragraph C. **Add** the following Subparagraphs 1 & 2.

- “1. Corner cover basis of design: Inpro 300-A09-150 for 6” joint.
2. Wall to wall basis of design: Inpro 300-A07-150 for 6” joint.”

TECHNICAL SPECIFICATIONS – VOLUME II:

Item No. 13 SECTION 23 2113 - HYDRONIC PIPING, PART 2 – PRODUCTS, Article 2.3 – GEOTHERMAL (ANTI-FREEZE) PIPING (GSHS AND GSHR), Subparagraph A – Copper Tube. **Delete** Subparagraph 3, and **replace** with the following:

“3. Press Fit Joints are acceptable if demonstrated to be compatible with antifreeze solution utilized.”

Item No. 14 SECTION 23 2113 - HYDRONIC PIPING, PART 2 – PRODUCTS, Article 2.4 – SNOW AND RADIANT HEATING PIPING (Includes Supply and Return Piping Mains Underground to Manifolds), Paragraph B – Composite Polyethylene Pipe (Underground only). **Add** the following sentence after the words “Oxygen barrier.”

“Alternate acceptable of Cross linked polyethylene tubing manufactured using the PEX-a (Engel/Peroxide) method and with an oxygen diffusion barrier. See 22 1005 2.3.C. for additional information.”

Item No. 15 SECTION 23 7313 - AIR HANDLING UNITS, PART 2 – PRODUCTS, Article 2.8 – DAMPERS, Paragraph B – Damper Leakage. **Add** the following.

“Maximum air velocity through any damper to be 1200 fpm.”

Item No. 16 SECTION 23 7313 - AIR HANDLING UNITS, PART 2 – PRODUCTS. **Add** Article 2.9:

- “2.9 AIRFLOW MEASUREMENT STATION (AMS)
- A. Manufacturers:
 1. Ebtron

B. Airflow measuring systems (AHU-1 SF):

1. SA and RA: Differential pressure controller. Provide digital flow readout in CFM (w/ contacts for remote monitoring).
 - a. Description: Transverse probes mounted at inlet cone casing to sense and average separate total and static pressures of an airstream. LED display mounted on exterior of fan unit casing. Read in Cubic Feet per Minute (CFM). Include 4-20 mA signal for remote CFM monitoring by the BAS direct digital control system.
 - b. Transverse Probes: Extruded aluminum probes contained within casing. Flow sensors shall not protrude beyond surface of the probe and shall be the offset (Fechheimer) type for static pressure and the chamfered impact type for total pressure measurement.
 - 1) *Spacing of sensing points in accordance with AMCA 230 for accurate flow sensing with duct traverse.*
 - 2) *Probes manifolded together to produce average total and static pressure. Manifold extended to casing for external connection to differential pressure transmitter.*
 - 3) *Capable of producing steady, non-pulsating signals of without need for flow correction factors, with an accuracy of 2-3% of actual flow.*
 - c. Casing: Factory mounted on fan inlet cone.

DRAWINGS, VOLUME III:

Item No. 17 Sheet C2-00 – LAYDOWN PLAN. **Revise** note 2 to read: “LOCATION OF TEMPORARY PERIMETER CONSTRUCTION FENCE TO BE COORDINATED WITH OTHER CONTRACTOR AND OWNER. SEE GENERAL NOTE 19 ON SHEET C1-00. FENCE SHALL BE MOVABLE WITH A MINIMUM HEIGHT OF 6 FEET, SECURED AT BASE TO RESIST LOCAL WIND LOADS.”

Item No. 18 Sheet C3-00 – SITE PLAN. **Add** the following Note 2.

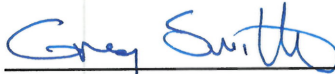
“2. TOPSOIL AND SEED ALL DISTURBED SLOPES AROUND THE PERIMETER OF THE PROJECT.”

Item No. 19 Sheet A2-11 – EAST AREA PLAN, Detail – 1 – LEVEL 1 – EAST AREA FLOOR PLAN. **Add** two (2) detail references as indicated on sketch SK-A7.

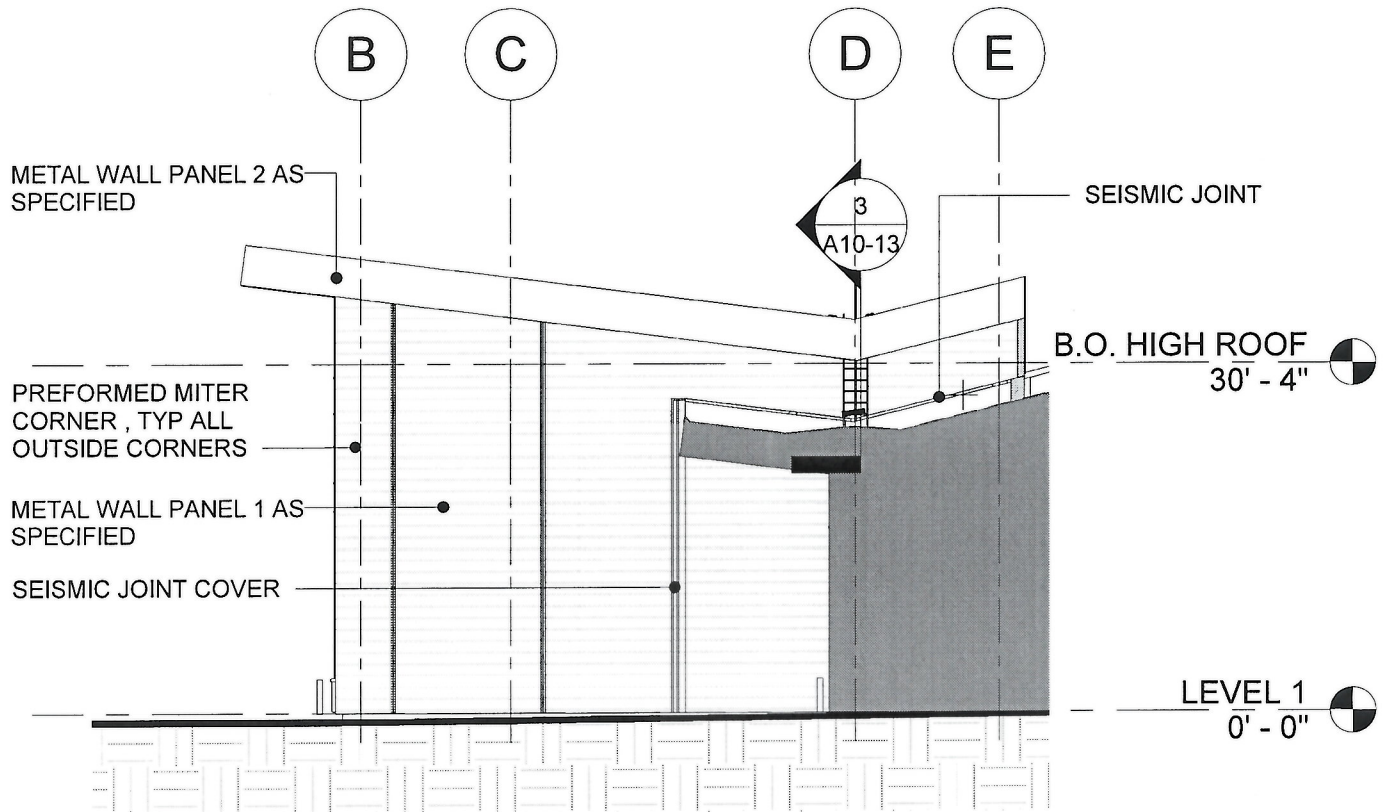
Item No. 20 Sheet A3-10 – OVERALL ROOF PLAN. **Add** the following General Note 3.

“3. PROVIDE FALL ARREST AND RESTRAINT SYSTEM AT LADDER FROM LOW ROOF TO HIGH ROOF AND FROM TOP OF LADDER TO ROOF DRAINS ON MAINTENANCE BAY ROOF.”

- Item No. 21 Sheet A4-10 – EXTERIOR ELEVATIONS. **Add** Exterior Elevation 6, MAINTENANCE BAY SOUTH ELEVATION, see attached sketch SK-A1.
- Item No. 22 Sheet A4-10 – EXTERIOR ELEVATIONS. **Add** the following Note 1.
“1. PREFORMED MITER CORNER, TYP ALL OUTSIDE CORNERS. see attached sketch SK-A1”
- Item No. 23 Sheets A6-10, A6-11, A6-12, A6-13 – WALL SECTIONS, Typical Slab Assembly, Rigid Insulation. **Revise** to read "2" RIGID INSULATION".
- Item No. 24 Sheet A6-11 – WALL SECTIONS, Detail 4 – CROSS SECTION THROUGH MECH. PUMP ROOM 130A. **Revise** the exterior sheathing to read, "EXTERIOR SHEATHING -SEE STRUCT."
- Item No. 25 Sheet A10-10 – EXTERIOR DETAILS, Details 1 – TYPICAL WINDOW SILL, Detail 2 – TYPICAL WINDOW HEAD, Detail 10 – LOUVER SILL DETAIL, and Detail 11 – LOUVER HEAD/JAMB DETAIL. **Revise** 5"x5" fiberglass angles to 4"x4" fiberglass angles per attached sketches, SK-A2, SK-A3, SK-A4 and SK-A5.
- Item No. 26 Sheet A10-10 – EXTERIOR DETAILS, Detail 4 – EXTERIOR BASE DETAIL. **Add** label to rigid insulation at foundation wall, "2" RIGID INSULATION."
- Item No. 27 Sheet A10-10 – EXTERIOR DETAILS, Detail 5 – SIDING TRANSITION. **Add** label to rigid insulation at foundation wall, "4" RIGID INSULATION."
- Item No. 28 Sheet A10-10 – EXTERIOR DETAILS, Detail 12 – STATIONARY BOLLARD INTERIOR/EXTERIOR. **Add** bollard cover per attached sketch SK-A6.
- Item No. 29 Sheet A10-15 – EXTERIOR DETAILS – DOORS. **Add** "Detail 10 – Seismic Joint" per attached sketch SK-A8.
- Item No. 30 Sheet A12-02 – ROOM FINISH SCHEDULE, Finish Schedule. **Revise** floor finish in Maintenance Bay to read "DLRH-1 and LDH-1". **Revise** all other room floor finishes to read, "LDH-1"
- Item No. 31 Sheet S2-21 – SLAB PLAN – EAST AREA, S2-22 – SLAB PLAN – WEST AREA. **Add** #6 U-bar to slab, 11 locations, See SK-S2
- Item No. 32 Sheet S4-12 – FOUNDATION DETAILS. **Add** "Detail 3 - TYPICAL BOLLARD DETAILS", See SK-S1.

By: 
Greg Smith,
Contract Administrator

Total number of pages contained within this Addendum: 14



6 MAINTENANCE BAY SOUTH ELEVATION
 1/16" = 1'-0"

5 EI
 1/

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**SNOW REMOVAL
 EQUIPMENT BUILDING**

JUNEAU CONTRACT: BE 16-254
 FAA AIP: 3-02-0133-xxx-2016

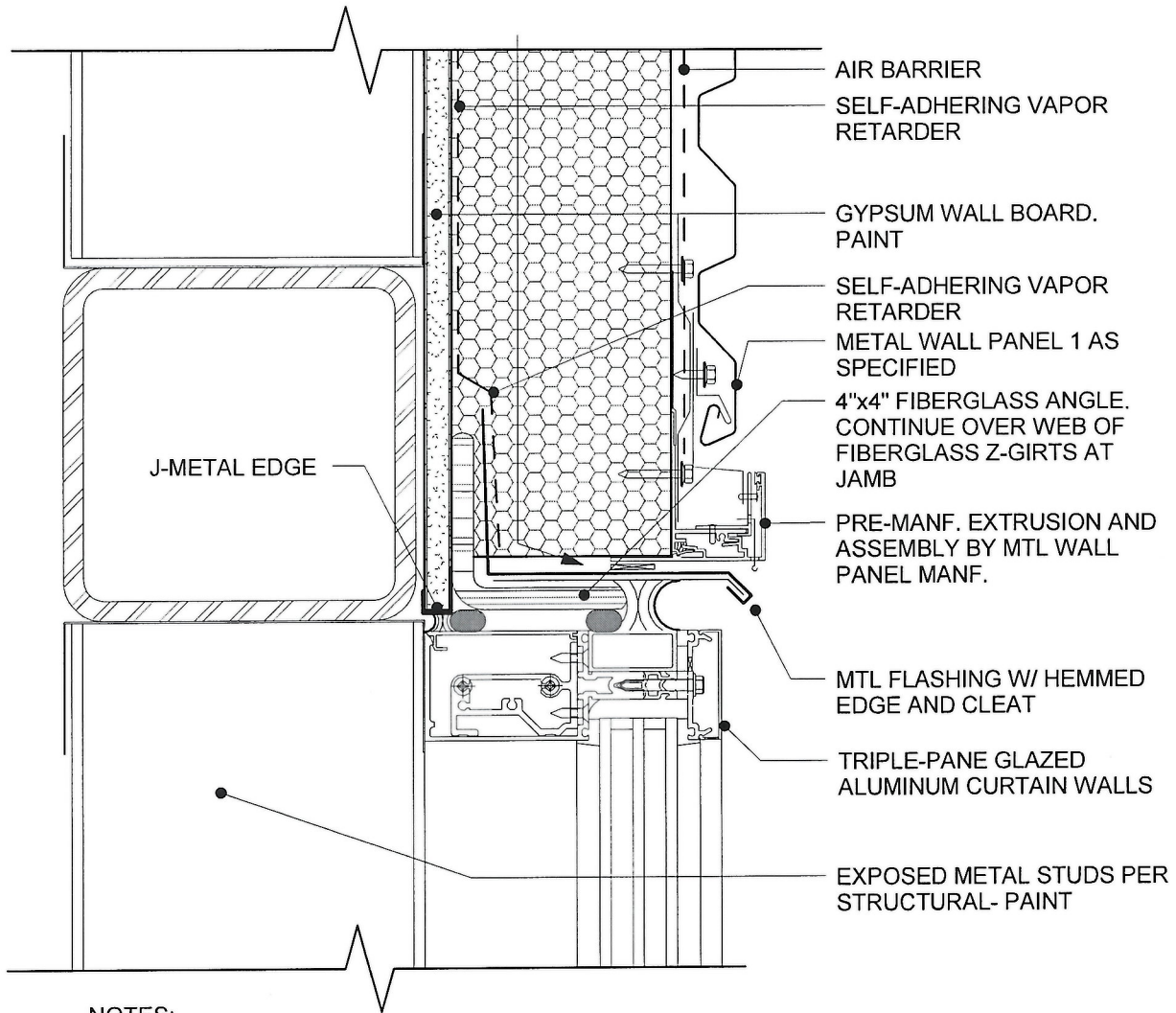
Sheet A4-10

Project No. 16-0002
 Date 06.13.2016
 Drawn by Author
 Checked by Checker

ADDENDUM NO. 2

SK-A1

Scale



NOTES:

1. COORDINATE FIBERGLASS FURRING WITH METAL PANEL FASTENER LOCATIONS. TYPICAL
2. COORDINATE ROUGH OPENING OF WINDOW HEADER TO ALIGN WITH COMPLETE METAL PANEL MODULE. VERIFY PRIOR TO CONSTRUCTION.

② TYPICAL WINDOW HEAD
3" = 1'-0"



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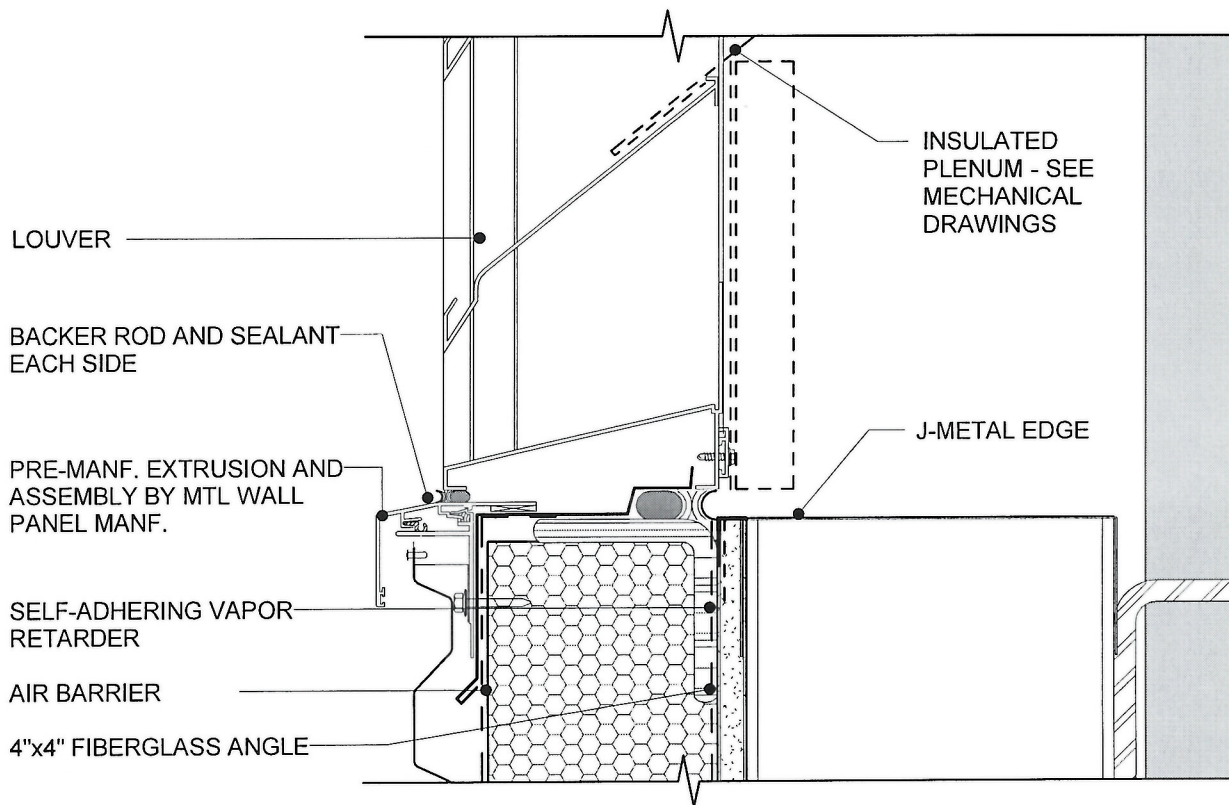
Sheet A10-10

Project No. 16-0002
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ADDENDUM NO. 2

SK-A3

Scale



⑩ LOUVER SILL DETAIL
3" = 1'-0"



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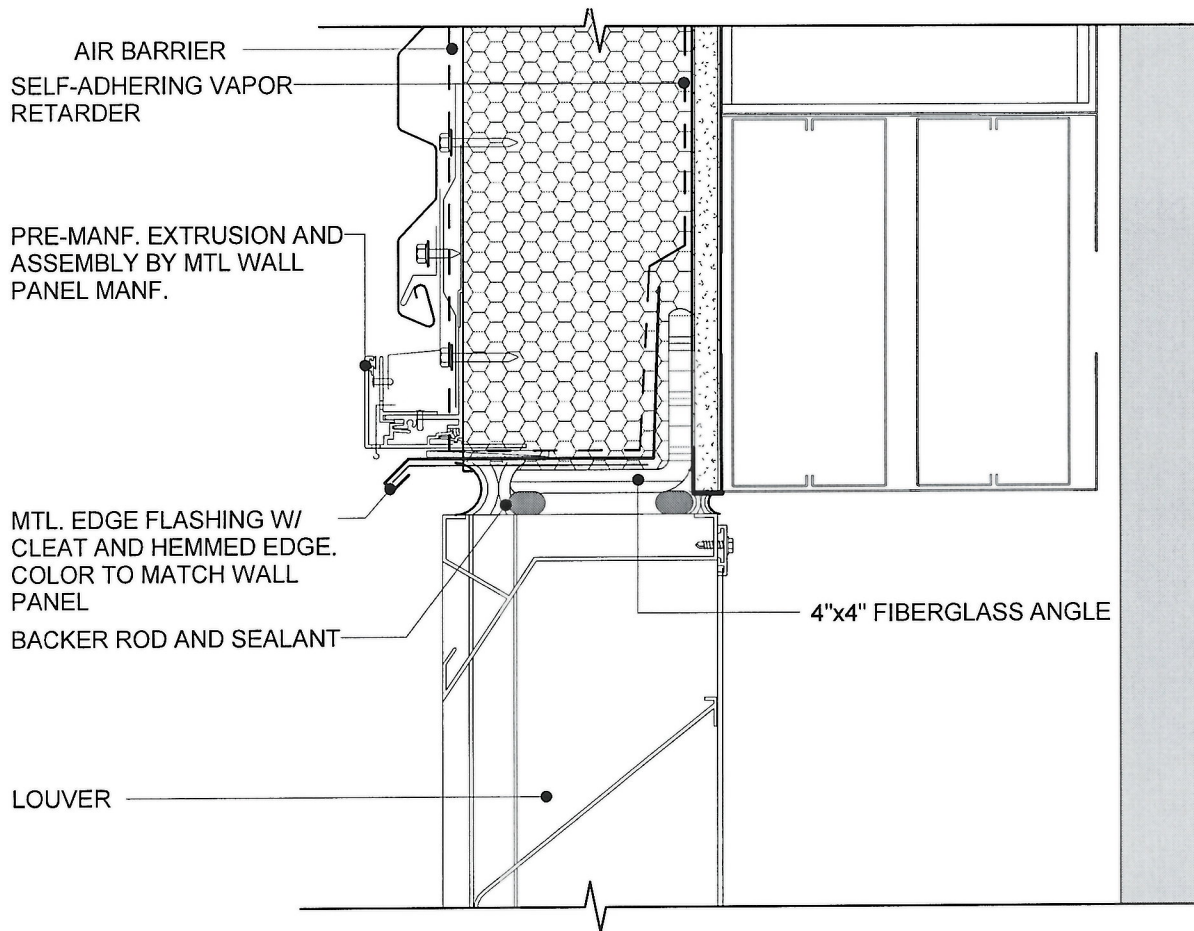
Sheet A10-10

Project No. 16-0002
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ADDENDUM NO. 2

SK-A4

Scale



11 LOUVER HEAD/JAMB DETAIL
3" = 1'-0"

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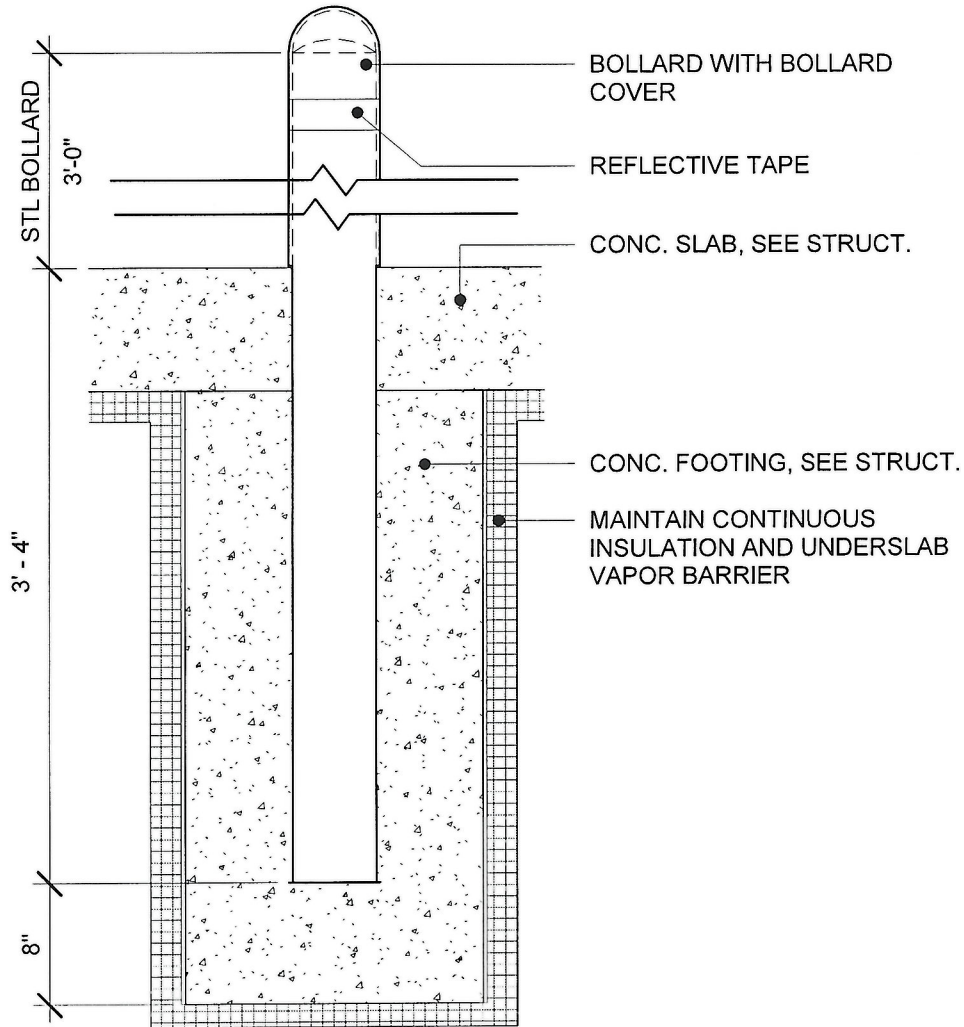
Sheet A10-10

Project No. 16-0002
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ADDENDUM NO. 2

SK-A5

Scale



STATIONARY BOLLARD
INTERIOR/EXTERIOR

12

1" = 1'-0"



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Sheet A10-10

Project No. 16-0002

Date 06.13.2016

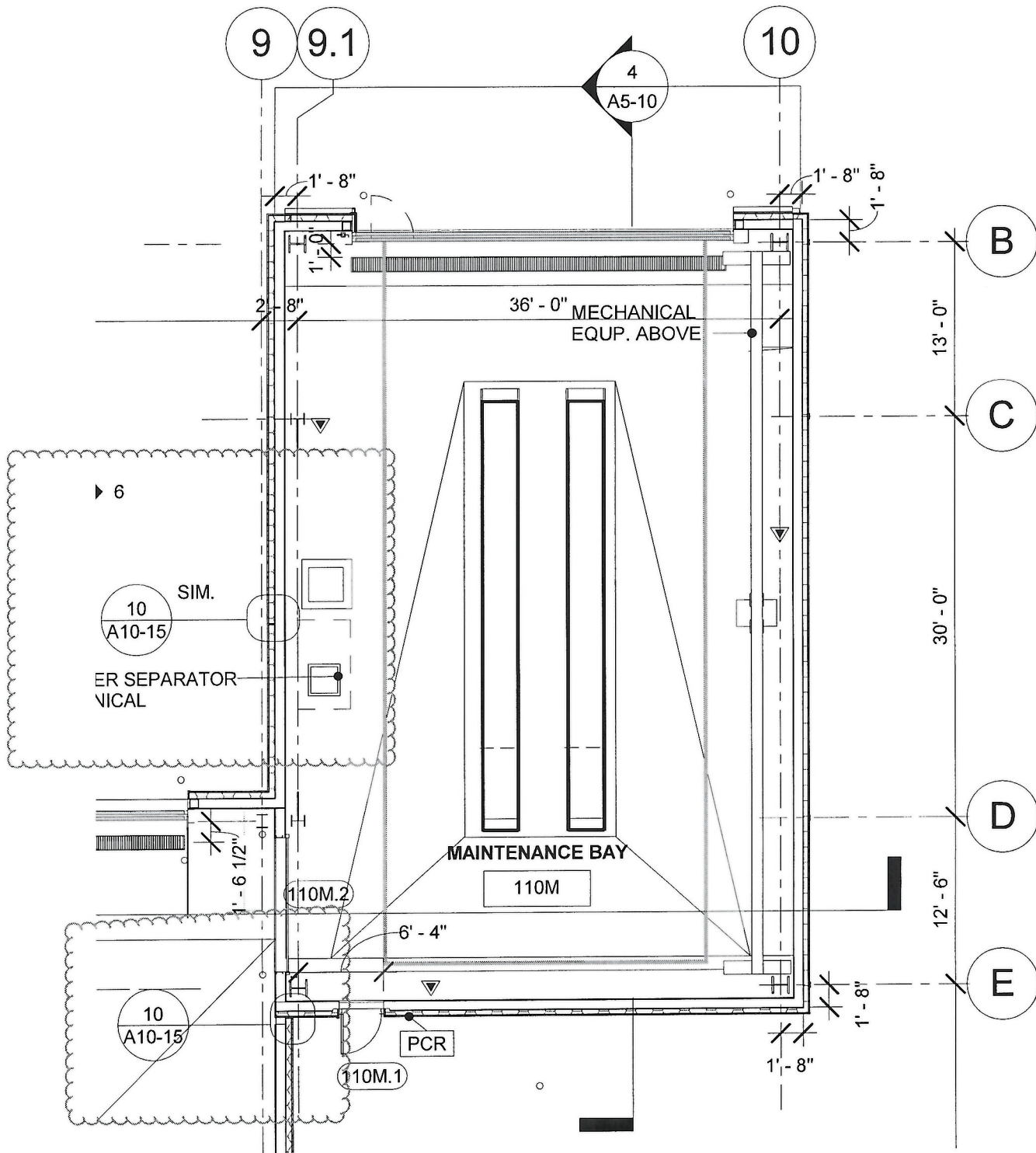
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ADDENDUM NO. 2

SK-A6

Scale



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Sheet A2-11

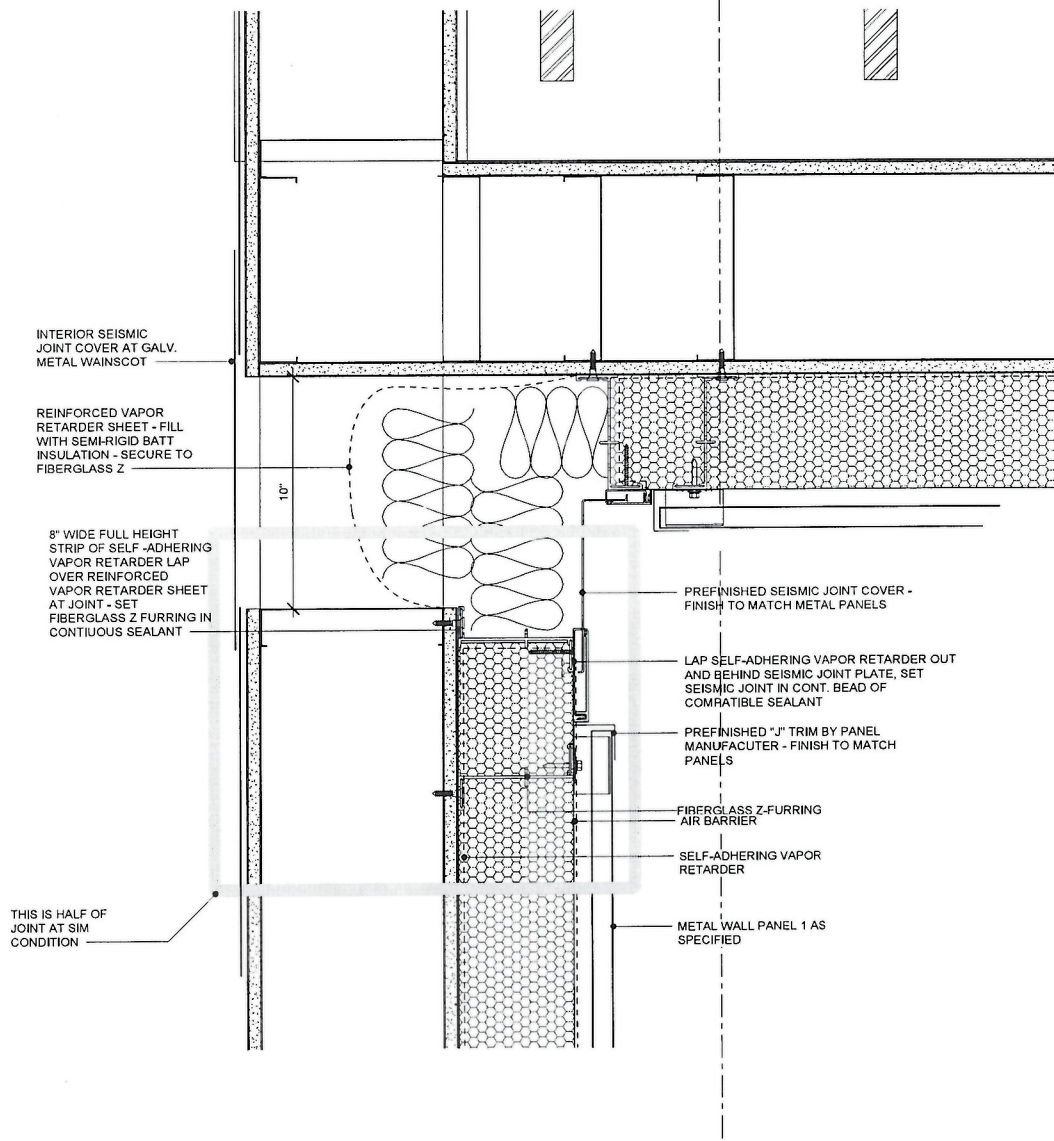
Project No. 16-0002
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ADDENDUM NO. 2

SK-A7

Scale

9.1



⑩ SEISMIC JOINT
3" = 1'-0"

PRINTED 1/2 SIZE AT 1 1/2" = 1'-0"



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Sheet A10-15

Project No. 16-0002

Date 06.13.2016

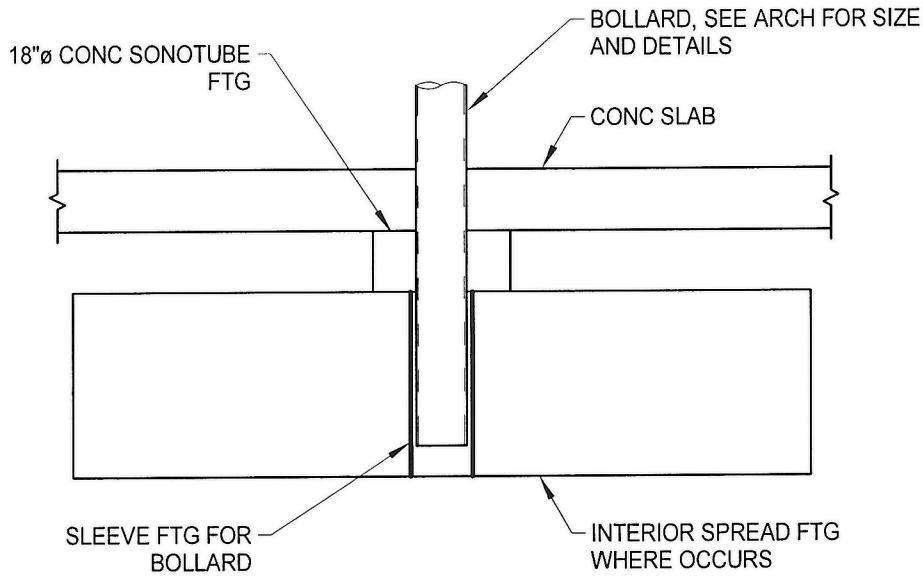
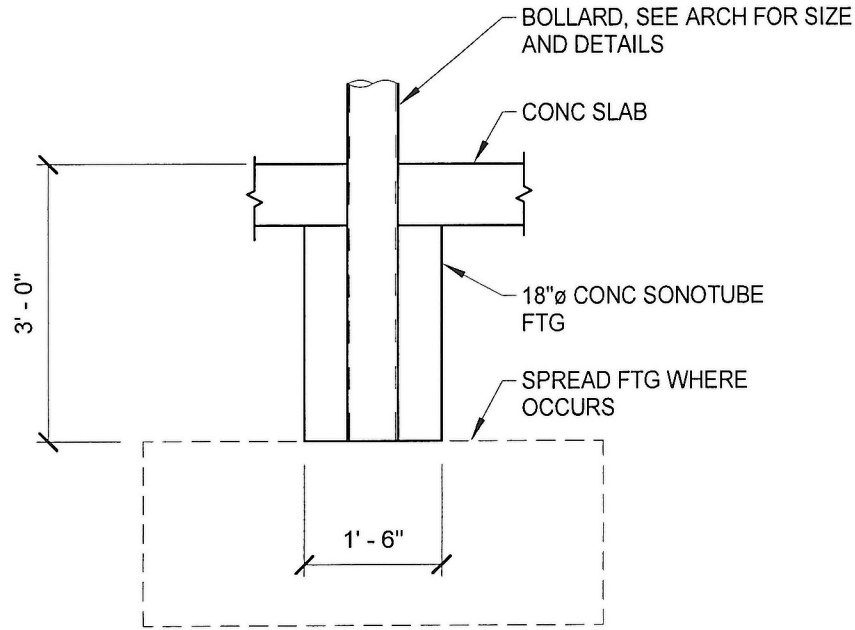
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ADDENDUM NO. 2

SK-A8

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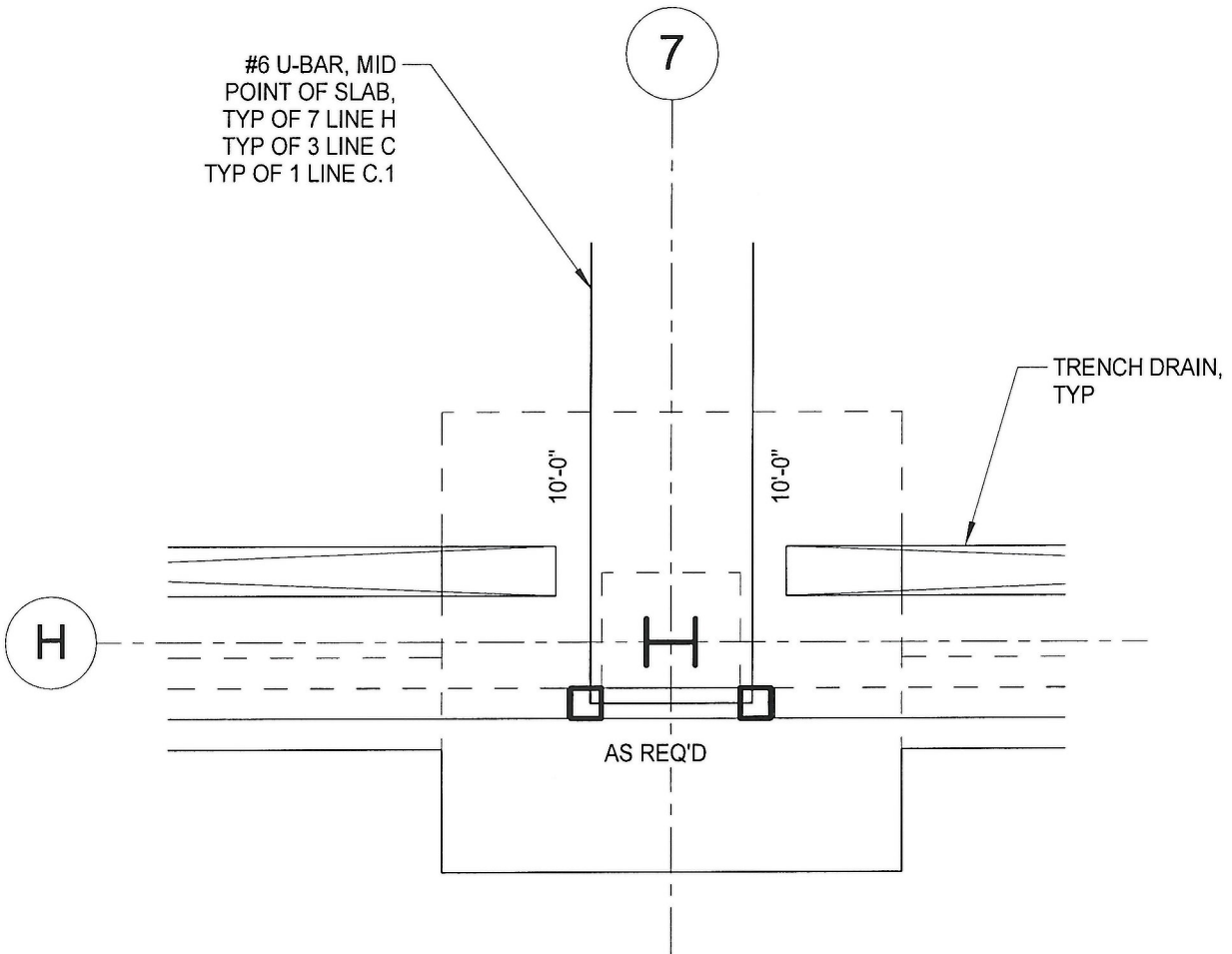
BOLLARD FOUNDATION DETAIL

Project No. PND 161038
 Date 06/13/2016
 Drawn by DB
 Checked by JG

ADDENDUM NO. 2

SK-S1

Scale 1/2" = 1'-0"



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ADDITIONAL U-BARS IN SLAB

Project No. PND 161038
Date 06/13/2016
Drawn by DB
Checked by JG

ADDENDUM NO. 2

SK-S2

Scale 1/4" = 1'-0"