



ADDENDUM NO.: TWO

DATE OF ADDENDUM: January 24, 2013

**Renovations & Additions to Jenkins-Waggoner Laboratory
CAES, 123 Huntington St, New Haven CT 06511
BI – P – 86**

Original Bid Due Date / Time:	January 16, 2013	1:00 PM
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Revised Bid Due Date / Time:	January 30, 2013	1:00 PM
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Previous Addendums:	Addendum NO. ONE January 11, 2013
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TO: Prospective Bid Proposers:

This Addendum forms part of the "Contract Documents" and modifies or clarifies the original "Contract Documents" for this Project dated 09/27/2012. Prospective Bid Proposers shall acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form. Failure to do may subject Bid Proposers to disqualification.

The following clarifications are applicable to drawings and specifications for the project referenced above.

Item 1

Drawing S-100, Clarified top of wall elevations. Refer to attached Sketch SKS- 013.

Item 2

Drawing S-100, Clarified top of wall elevations. Refer to attached Sketch SKS- 014.

Item 3

Drawing S-100 - Part Plan A/S-100, Clarified top of wall elevations. Refer to attached Sketch SKS- 015.

Item 4

Drawing S-100, Foundation Plan Notes, **REVISE** Note #30 as follows: "..... TO BE AT REFERENCED ELEVATION 126'-1" +/- CONTRACTOR TO....."

Item 5

Drawing S-100, Deleted retaining walls and modify BFE's. Refer to attached Sketch SKS- 016.

Item 6

Drawing S-100 Gridline B-8.5, **REVISE** footing F3.0B note as follows: "BFE TO MATCH WALL UPE. TOP OF FOOTING TO MATCH BOT OF EXISTING FOOTING (VIF). REMOVE PORTION OF EXIST FOOTING PROJECTION FOR BASEPLATE INSTALLATION."

Item 7

Drawing S-100 Gridline S1-SA, **REVISE** Footing BFE from 125'-7" to 125'-9".

Item 8

Drawing S-100 Gridline S1-SB, **ADD** new concrete pier "P1" to footing call out.



ADDENDUM NO.: TWO

DATE OF ADDENDUM: January 24, 2013

Item 9

Drawing S-100 Gridline eB.8-5, **REVISE** footing F3.0B note as follows: "BFE TO MATCH WALL UPE. TOP OF FOOTING TO MATCH BOT OF EXISTING FOOTING (VIF). REMOVE PORTION OF EXIST FOOTING PROJECTION FOR BASEPLATE INSTALLATION."

Item 10

Drawing S-100 Gridline e5.8-eB.8, **MODIFY** footing F3.0 note as follows: ".....MATCH EXISTING (VIF). REMOVE PORTION OF EXIST FOOTING PROJECTION FOR INSTALLATION OF NEW FOOTING – SEE DETAIL 10/S-302 (SIM) FOR ADDITIONAL REQUIREMENTS."

Item 11

Drawing S-300, Revised section 8/S300. Refer to attached Sketch SKS- 017.

Item 12

Drawing S-302, Added note to section 11/S302. Refer to attached Sketch SKS- 018.

Item 13

Drawing S-303, **DELETE** section 1/S303 and add note: "NOT USED" above section mark.

Item 14

Drawing S-500 Column A-8.6, **REVISE** base plate elevation from 126'-7" to 126'-10".

Item 15

Drawing S-500 Column B-8.5, **ADD** "(VIF)" to base plate elevation.

Item 16

Drawing S-500 Column C-9, **REVISE** base plate elevation from 127'-3" to 126'-9".

Item 17

Drawing S-500 Column C-10, **REVISE** base plate elevation from 127'-3" to 126'-9".

Item 18

Drawing S-500 Column B(-1)-e5.8, **REVISE** base plate elevation from 126'-0" (VIF) to 126'-4" (VIF).

Item 19

Drawing S-500 Column S1-SB, **REVISE** base plate elevation from 127'-4" to 126'-10".

Item 20

In Section 053100:

DELETE: Paragraph 3.3.A.2

SUBSTITUTE: Revised Paragraph 3.3.A.2

2. Weld Spacing: Weld edge and interior ribs of deck units with a minimum of two welds per deck unit at each support. Provide welds at every deck rib at all supports in the field of the roof and two welds at every deck



ADDENDUM NO.: TWO

DATE OF ADDENDUM: January 24, 2013

rib at perimeter and corner areas (within 8'-0" minimum of the perimeter), based on roof area definitions of FM Loss Prevention Data Sheet 1-29.

Item 21

In Section 053100 Steel Decking:

MODIFY Paragraph 3.3.B as follows: ".....span or 24 inches in the field of the roof and 15" o/c maximum at corners and along the perimeter, and as follows:.

Item 22

In Section 211313 Wet-Pipe Sprinkler Systems:

DELETE: Paragraph 1.5.C.5a

SUBSTITUTE: Revised Paragraph 1.5.C.5a

- a. Light-Hazard Occupancies: 250 gpm (6.3 L/s) for 60 minutes. (F.M. Global)

Item 23

In Section 211316 Dry-Pipe Sprinkler Systems:

DELETE: Paragraph 1.5.C.5a

SUBSTITUTE: Revised Paragraph 1.5.C.5a

- a. Light-Hazard Occupancies: 250 gpm (6.3 L/s) for 60 minutes. (F.M. Global)

Item 24

In Section 211316 Dry-Pipe Sprinkler Systems:

ADD: Paragraphs 1.5.E and 1.5F:

- E. All branch lines shall be pitched a minimum of 1/2" every 10 feet and all cross mains and feed mains shall be pitched a minimum of 1/4" every 10 feet to allow for adequate drainage.
- F. The dry-pipe system shall be capable of providing water to the inspector's test station within 60 seconds of opening the inspector's test connection.

Item 25

In Section 233113 Metal Ducts

DELETE Paragraph 2.2.F in its entirety.

DELETE Paragraph 2.4.E in its entirety

MODIFY Paragraph 3.11.G as follows:

- 2. Plenums: Flexible Elastomeric Fibrous glass, Type II, 2 inches (51 mm) thick
- 3. Transfer Ducts: Flexible Elastomeric Fibrous glass, Type I, 1-1/2 inches (38 mm) thick.



ADDENDUM NO.: TWO

DATE OF ADDENDUM: January 24, 2013

Item 26

Drawing CD-001, Area called out as *1" MILL AND OVERLAY DURING FINAL PAVING* shall be replaced with *FULL DEPTH REMOVAL AND REPLACEMENT TO MATCH NEW BIT. CONC. PAVEMENT*. Refer to attached Sketch C- 001.

Item 27

Drawing A-101. Exterior Sign included in Addendum One is located on plan and Corner Guards locations have been noted. Refer to attached sketch ASK-A101c, ASK-A101d, ASK-A101e and ASK-A101f.

Item 28

Drawing A-102. Corner Guard locations have been noted. Refer to attached sketch ASK-A102c and ASK-A102d.

Item 29

Drawing A-201. Reference to photos has been deleted. Refer to attached sketch ASK-A201a and ASK A201b.

Item 30

Drawing A-412. Dimensions clarified at interior borrowed lite. Refer to attached sketch ASK-A412c.

Item 31

Drawing A-512. Coordinate edge of slab with structural design. Refer to attached sketch ASK-A512.

Item 32

Drawing A-516. Clarified interior borrowed lite sill detail. Refer to attached sketch ASK-A516b.

Item 33

Drawing A-543. Corner Guards locations have been noted.. Refer to attached sketch ASK-A543a, ASK-A543b, ASK-A543c, ASK-A543d, ASK-A543e, ASK-A543f, ASK-A543g, ASK-A543f, ASK-A543g, ASK-A543h and ASK-A543i.

Item 34

Drawing A-544. Corner Guards locations have been noted. Refer to attached sketch ASK-A544a, ASK-A544b, ASK-A544c, ASK-A544d, ASK-A544e, ASK-A544f and ASK-A544g.

Item 35

Drawing A-601. Door Schedule clarifications. Refer to attached sketch ASK-A601b, ASK-A601c, ASK-A601d and ASK-A601e.

Item 36

Drawing A-602. Frame Type clarifications. Refer to attached sketch ASK-A602b and ASK-A602c.



ADDENDUM NO.: TWO

DATE OF ADDENDUM: January 24, 2013

Item 37

Drawing A-605. Interior Borrowed Light Schedule clarifications. Refer to attached sketch ASK-A605a and ASK-A605b.

Item 38

Specification Section 05 73 26 GLASS AND METAL RAILINGS. Delete entire section.

Item 39**CONTRACTOR QUESTION:**

On the drawings there doesn't seem to be any loose lintels. Please clarify.

ANSWER:

See drawings for required lintels.

Item 40**CONTRACTOR QUESTION:**

Please provide T.O.W. dimensions for retaining wall at column line S2/SB. No information is shown on landscape drawings.

ANSWER:

See Sheet C-501 details 8, 9 and 11.

Item 41**CONTRACTOR QUESTION:**

In reference to Addendum #1, a new specification section 03 54 19 was included for lightweight concrete fill. The section also references doing a survey of the existing conditions for quantities required. Could we request that because it is both improbable and impractical to expect all bidders to do this survey that a \$10,000 allowance be used for bidding purposes with the understanding that actual quantities will be required of the successful bidder?

ANSWER:

The contractor is required to provide lightweight fill where shown on the documents including Addendum 1 and 2 and to provide a Survey of the Existing Slab for the Owner and Architects review as described in section 03 54 19. The Bidder shall include a \$10,000 allowance for the installation of the lightweight fill. Based on the results of the existing slab survey, a change order will be issued to adjust the actual cost of lightweight fill and the adjustment will be based upon a unit price of \$32 per cubic foot of lightweight fill installed.

Item 42**CONTRACTOR QUESTION:**

Drawing CU-101, Site Utility Plan has a note indicating the Regional Water Authority (RWA) shall install 4" domestic service from tap up to building. Who is responsible for material (pipe, valve, thrust blocks and tapping sleeve)?

ANSWER:

(RWA) would install the service from the main to the building including all the material from tap to pipe going through the foundation to the meter. RWA would also do the trenching, backfilling and compaction.



ADDENDUM NO.: TWO

DATE OF ADDENDUM: January 24, 2013

Item 43**CONTRACTOR QUESTION:**

Spec. Section 085900-ALUMINUM CLAD WINDOW What type of windows are these "New Construction or Replacement"? Please clarify. If these windows are "New Construction" type window please provide detail drawing for interior/exterior trim.

ANSWER:

See Window details included in Addendum 1. Provide exterior aluminum panning and casings as shown and to match existing. Provide interior wood (to be painted) casing, extension jambs, sill and apron as shown in dashed lines on window details.

Item 44

In Section 05 50 00 "Metal Fabrications", Insert the following after paragraph 2.12:

2.13 STEEL RAILING SYSTEM USING HORIZONTAL RODS

A. Steel Materials:

1. Rods: Hot-rolled, carbon steel complying with ASTM A 29/A 29M, Grade 1010.
2. Plates, Shapes, and Bars: ASTM A 36/A 36M.

B. Wood Handrails: Clear, straight-grained hardwood handrails secured to metal posts.

1. Species: Select White Maple; premium grade per AWI, AWMAC, WI quality standards.
2. Finish: Transparent polyurethane.
3. Staining: None.

C. Miscellaneous Materials:

1. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
2. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer.

D. Fabrication:

1. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads].
2. Connections: Fabricate railings with welded connections unless otherwise indicated.
 - a. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Type 1 welds: no evidence of a welded joint.
3. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated.
4. Brackets, Flanges, Fittings, and Anchors: Provide brackets, flanges, miscellaneous fittings, and anchors to connect wood handrails to metal railings.

E. Steel Finishes:

1. Preparing Steel Items for Shop Priming: Prepare uncoated ferrous-metal surfaces to comply with SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
2. Primer Application: Apply shop primer to prepared surfaces of railings unless otherwise indicated. Comply with requirements in SSPC-PA 1.
3. Finish Paint: Refer to Section 09 91 00 "Painting".

Item 45

In Section 07 21 00 "Thermal Insulation", insert the following paragraph after 2.1.B.1:

**ADDENDUM NO.: TWO**

DATE OF ADDENDUM: January 24, 2013

2. In accordance with FM Global requirements, foil-faced mineral-wool board insulation is the only insulation type that can be installed in cavity walls. Foam insulations are not permitted to be installed in cavity walls.

Item 46

In Section 07 41 13 "Standing Seam Metal Roofs":

DELETE: Paragraph 1.3.E.1.a**SUBSTITUTE:** Revised Paragraph 1.3.E.1.a:

Field: 45.1 psf, Class 105 wind uplift rating
 Perimeter: 69.9 psf, Class 150 wind uplift rating
 Corners: 97.9 psf, Class 210 wind uplift rating

Item 47

In Section 07 53 26 "EPDM Roofing", insert the following paragraph 1.4.F.1

1. When RoofNav Assembly numbers, roofing materials and securement methods are selected, complete FM Global Form 2688, *Checklist for Roofing System*, for each roof area and submit to FM Global for review and comment.

Item 48**NEW SECTION:** Add new Section 07 16 16 "Crystalline Waterproofing".**Item 49****REPLACEMENT SECTION:** Replace Section 01 20 00 "Contract Considerations" with new Section 01 20 00 "Contract Considerations". Note that the revisions are to the following paragraphs:

- 1.3.C.5.e: Reference to unit prices for Allowance No. 5 has been deleted.
 1.5.C.4: Table for earth excavation and rock excavation has been expanded.
 1.5.D.B: Unit prices for items related to Allowance No. 5 have been deleted from Unit Price Schedule.

Item 50


Table of Contents: Revised to show new Sections added and deleted by Addenda ONE and TWO.

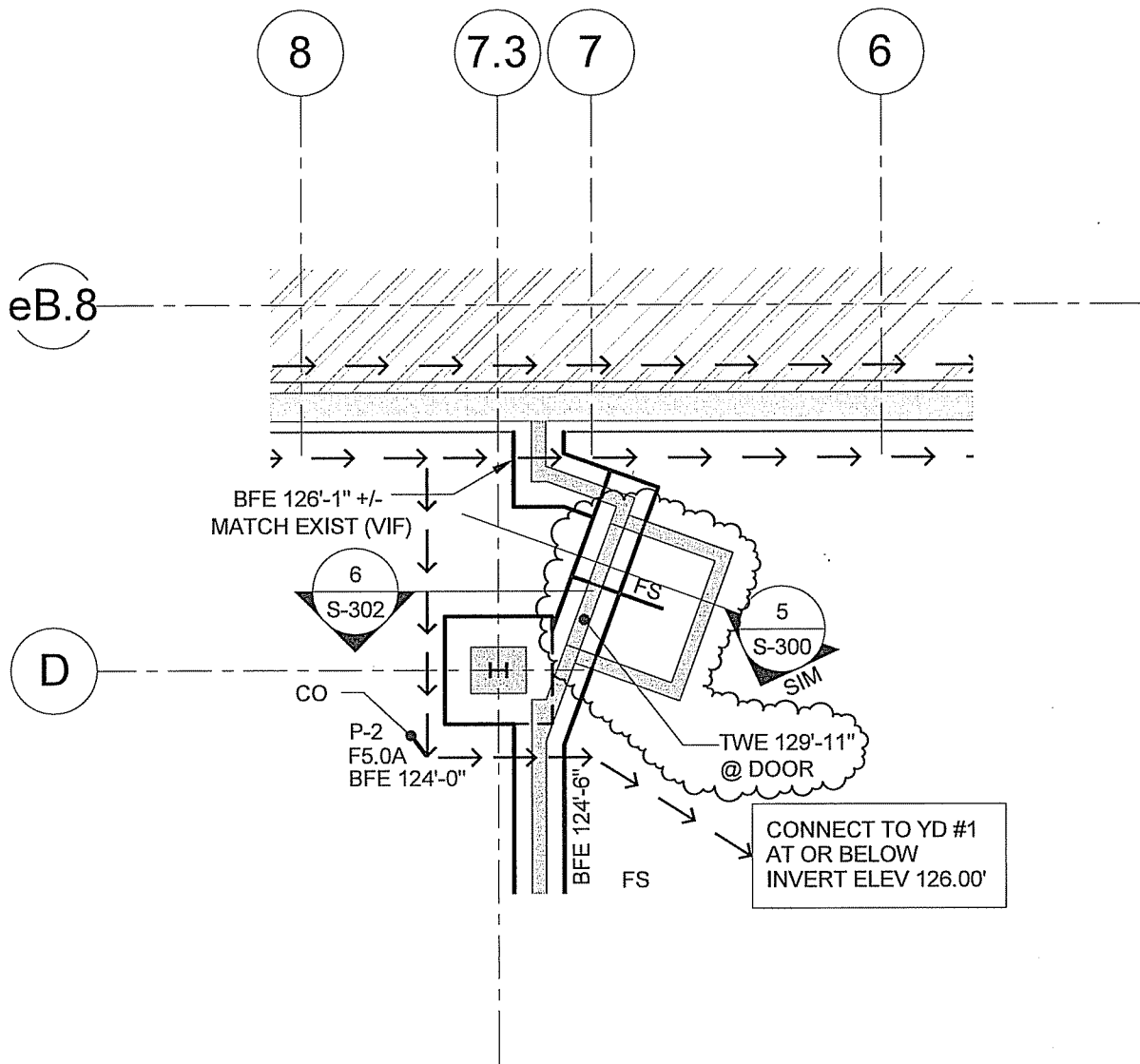
Item 51

See attachment to this Addendum TWO for use with the above items.



All questions must be in writing (not phone or e-mail) and must be forwarded to the consulting Architect/Engineer (David Halpern, Flad Architects, fax 212-213-8250) with copies sent to the CT DCS Project Manager (Michael Rice, DCS, fax 860-713-7251).

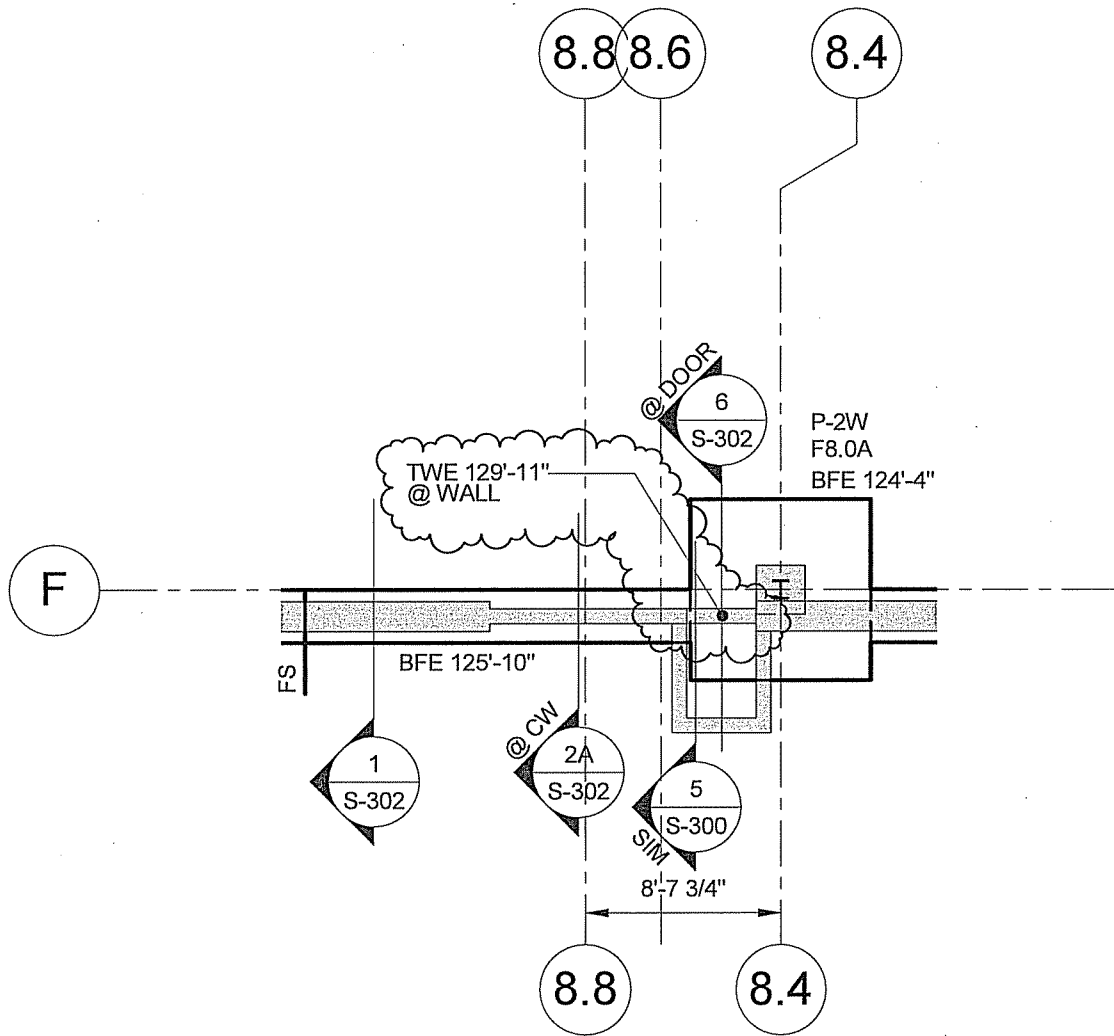
End of Addendum


 David Busanet, Bidding & Contracts Supervisor
 Department of Administrative Services
 On Behalf of the Department of Construction Services






ADDENDUM NO. 2

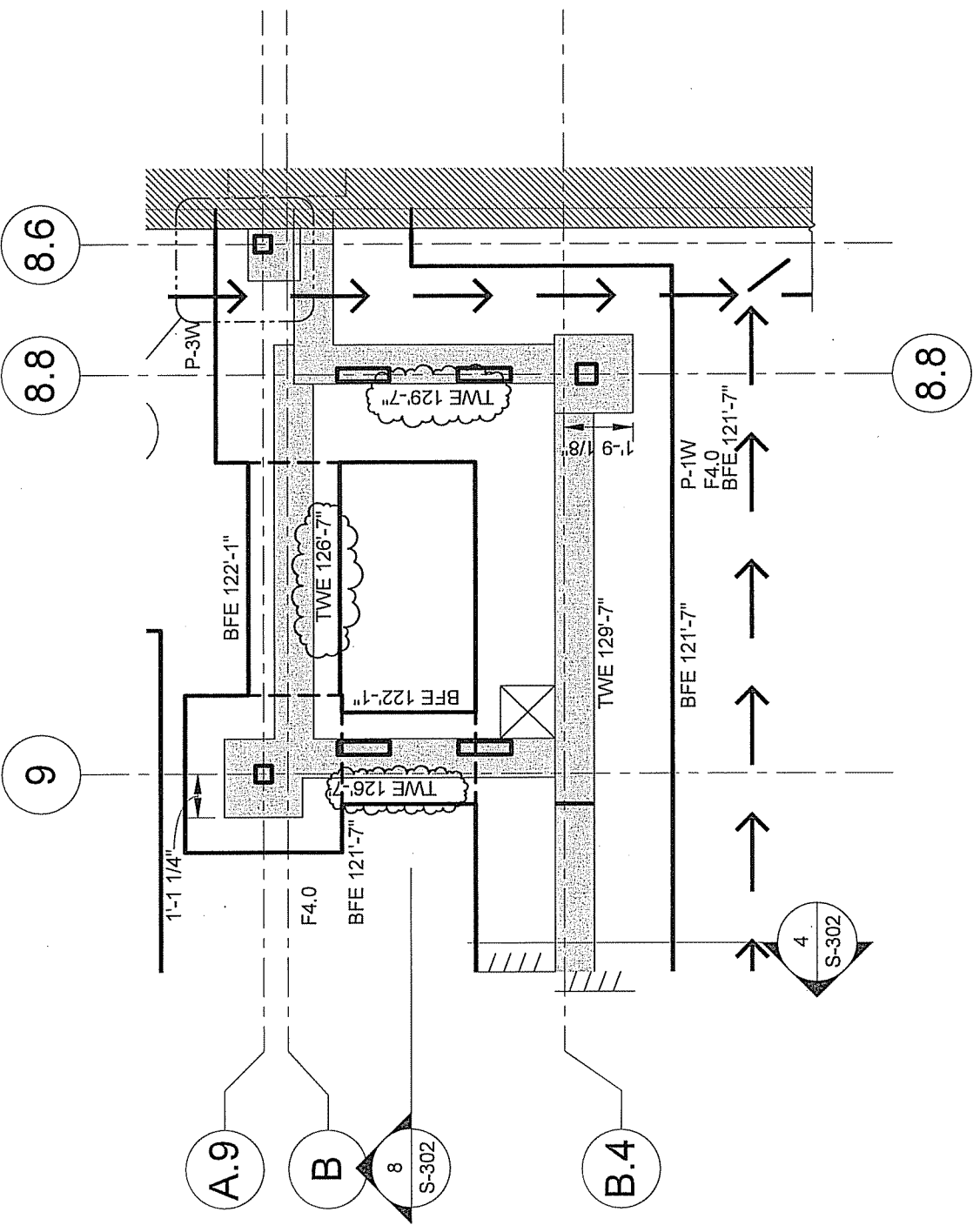
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	Sketch Number SKS-013	RFI Number	Reference Sheet S-100	



ADDENDUM NO. 2

 		Sketch Title FOUNDATION PLAN	DCS Project Number: BI - P - 86	Sketch Revised
		Project Title RENOVATIONS and ADDITIONS to JENKINS-WAGGONER LABORATORY	BVH Project Number: 2111115	
Sketch Number SKS-014	RFI Number	Reference Sheet S-100	Revision Number	Sketch Issue Date 01/23/13

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ADDENDUM NO. 2

Sketch Title FOUNDATION PART PLAN Project Title RENOVATIONS and ADDITIONS to JENKINS-WAGGONER LABORATORY	Reference Sheet S-100	Sketch Issue Date 01/23/13
	RFI Number SKS-015	Revision Number 211115
Sketch Number SKS-015	DCS Project Number: BI - P - 86 BVH Project Number: 211115	Sketch Revised

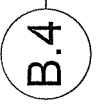
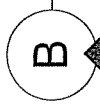
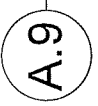
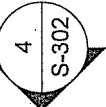


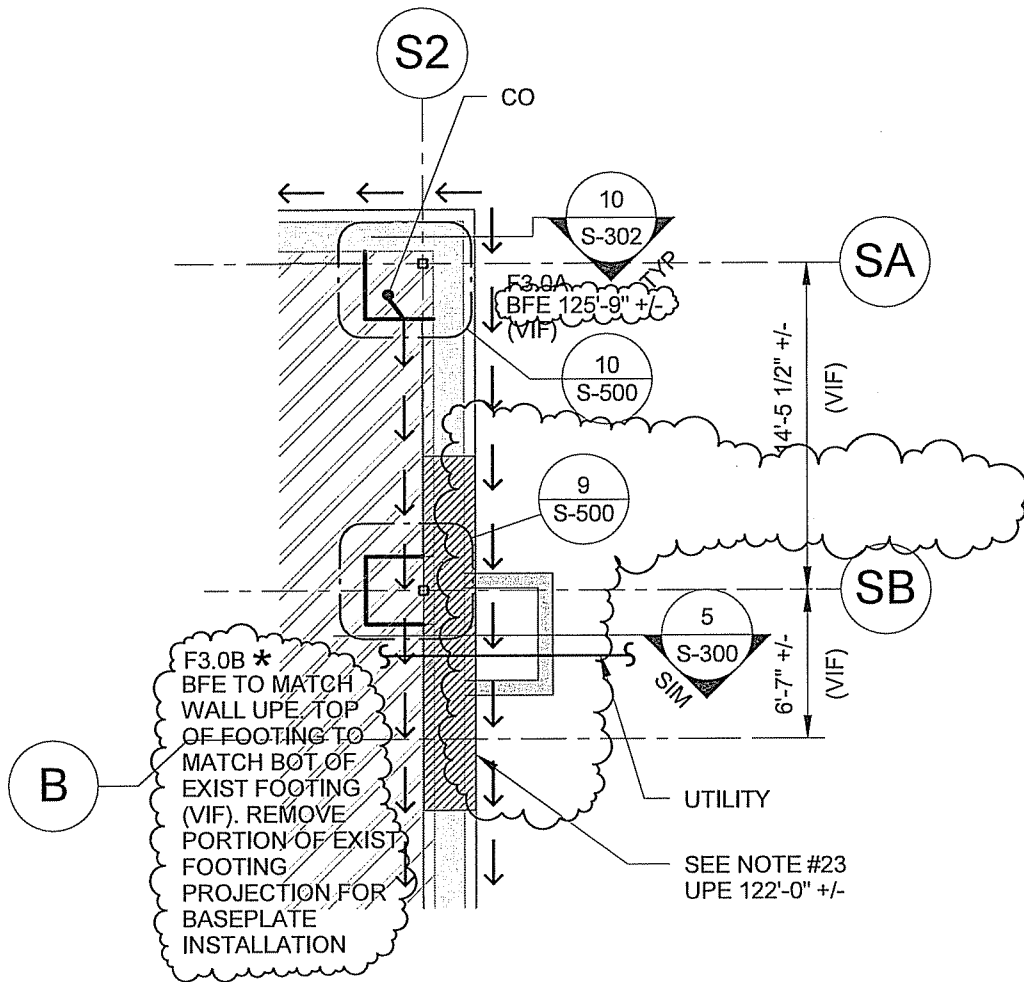
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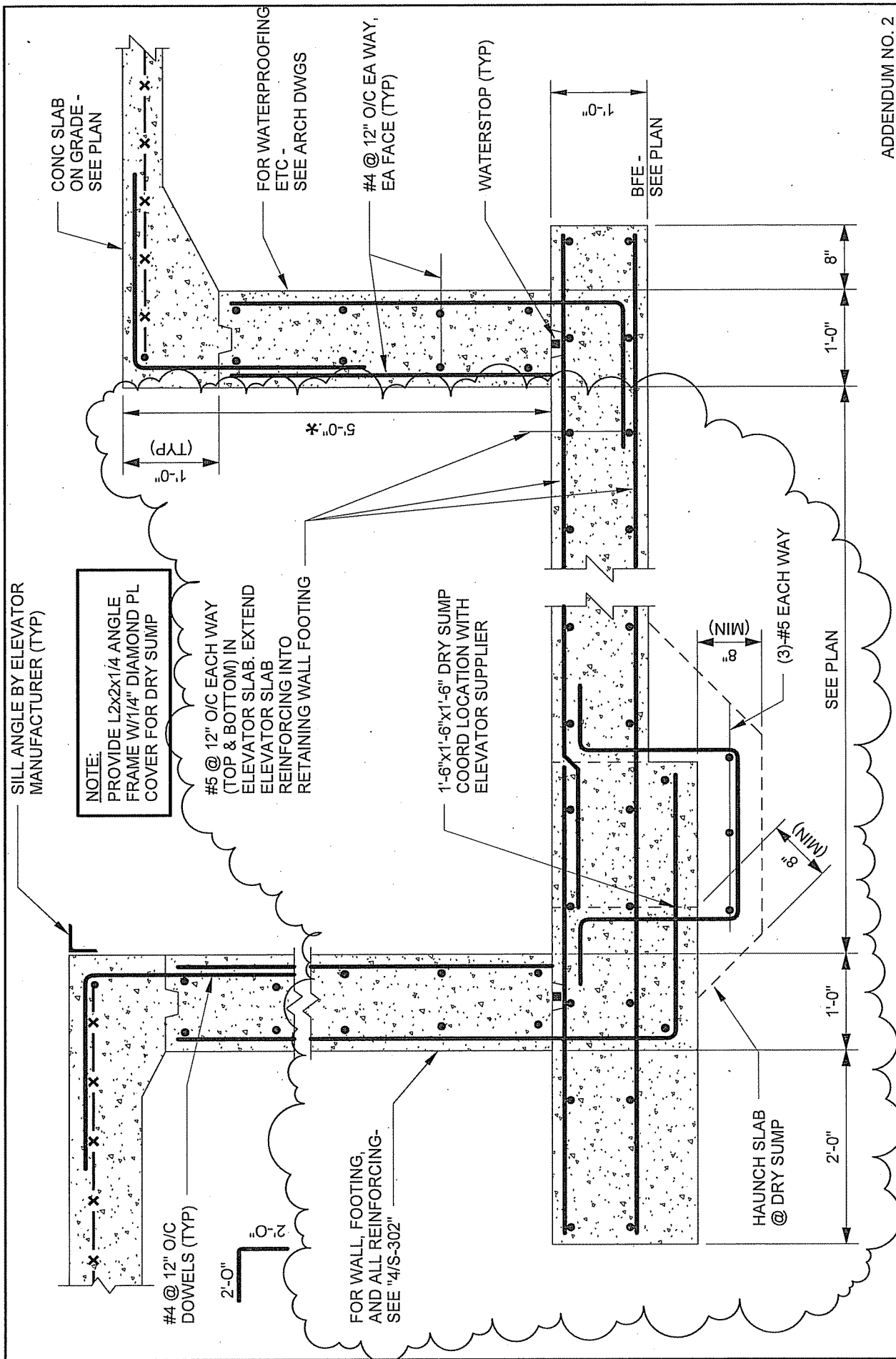
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  <small>50 Griffin Road South Bloomfield, CT 06032 Tel (860) 266-9171 www.bvhs.com</small>	Sketch Title FOUNDATION PLAN Project Title RENOVATIONS and ADDITIONS to JENKINS-WAGGONER LABORATORY		DCS Project Number: BI - P - 86	Sketch Revised
	Sketch Number SKS-016	RFI Number	Reference Sheet S-100	



8 SECTION AT ELEVATOR PIT
S-300 NOT TO SCALE


Sketch Title **FOUNDATION DETAIL**
 Project Title **RENOVATIONS and ADDITIONS to JENKINS-WAGGONER LABORATORY**
 Sketch Number **SKS-017**


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 Reference Sheet **S-300**

DCS Project Number: **BI-P-86**
 BVH Project Number: **2111115**
 Revision Number

Sketch Revised
 Sketch Issue Date **01/23/13**

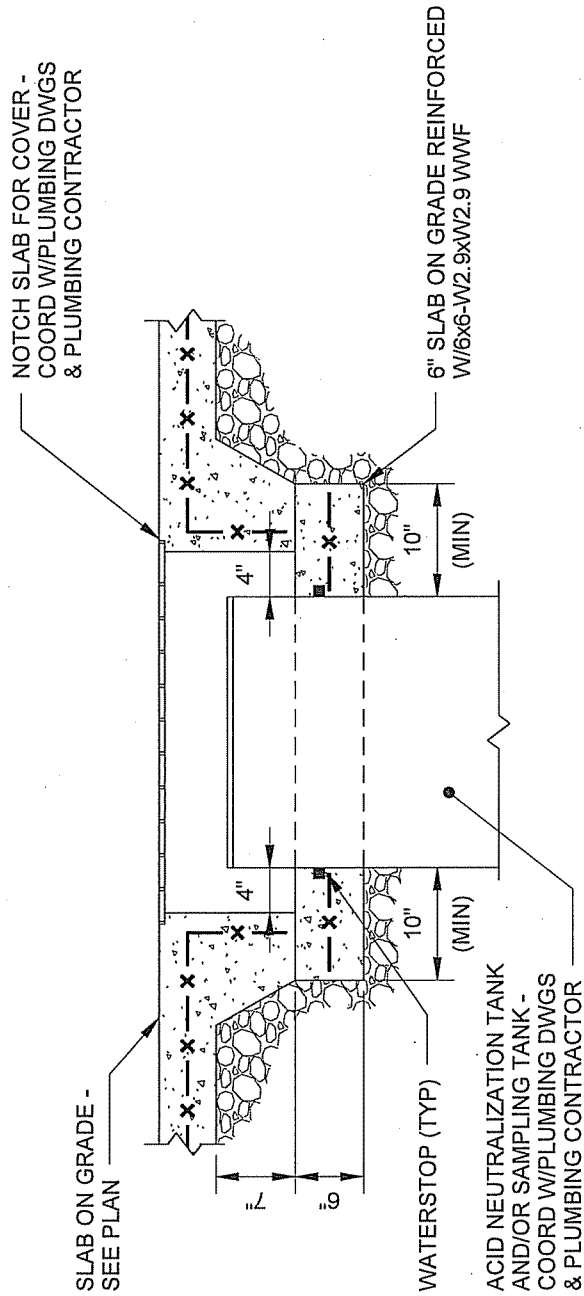
ADDENDUM NO. 2





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NOTES:

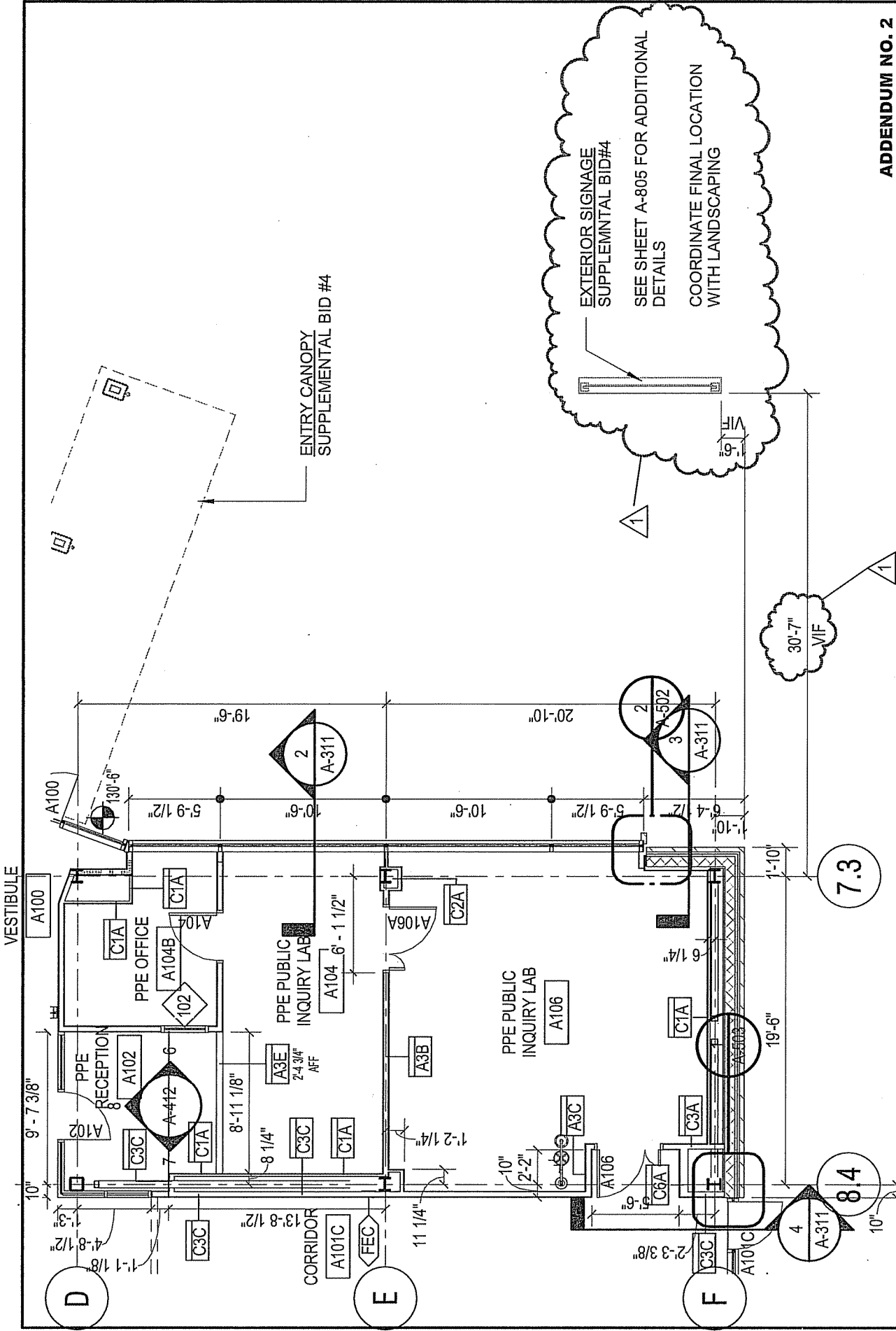
1. PROVIDE 4'-0"x4'-0"x8" THICK REINFORCED CONCRETE HOLD DOWN PAD BELOW TANK. PAD TO BE NORMAL WEIGHT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI. PROVIDE (4)-#4 EACH WAY, TOP AND BOTTOM. COORDINATE LOCATION AND TANK ANCHORAGE REQUIREMENTS WITH MEP CONTRACTOR.

11 FOUNDATION DETAIL

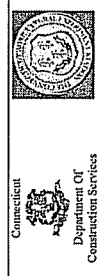
S-302 3/4" = 1'-0"

ADDENDUM NO. 2

Connecticut Department of Construction Services 		Sketch Title FOUNDATION DETAIL Project Title RENOVATIONS and ADDITIONS to JENKINS-WAGGONER LABORATORY		Reference Sheet S-302	Sketch Issue Date 01/23/13
		DCS Project Number: BJ - P - 86	BVH Project Number: 211115	Revision Number 	
BVH Integrated SERVICES 	50 Grain Road South Bloomfield, CT 06002 Tel: (860) 897-1111 www.bvh.com	Sketch Number SKS-018	RFI Number 		

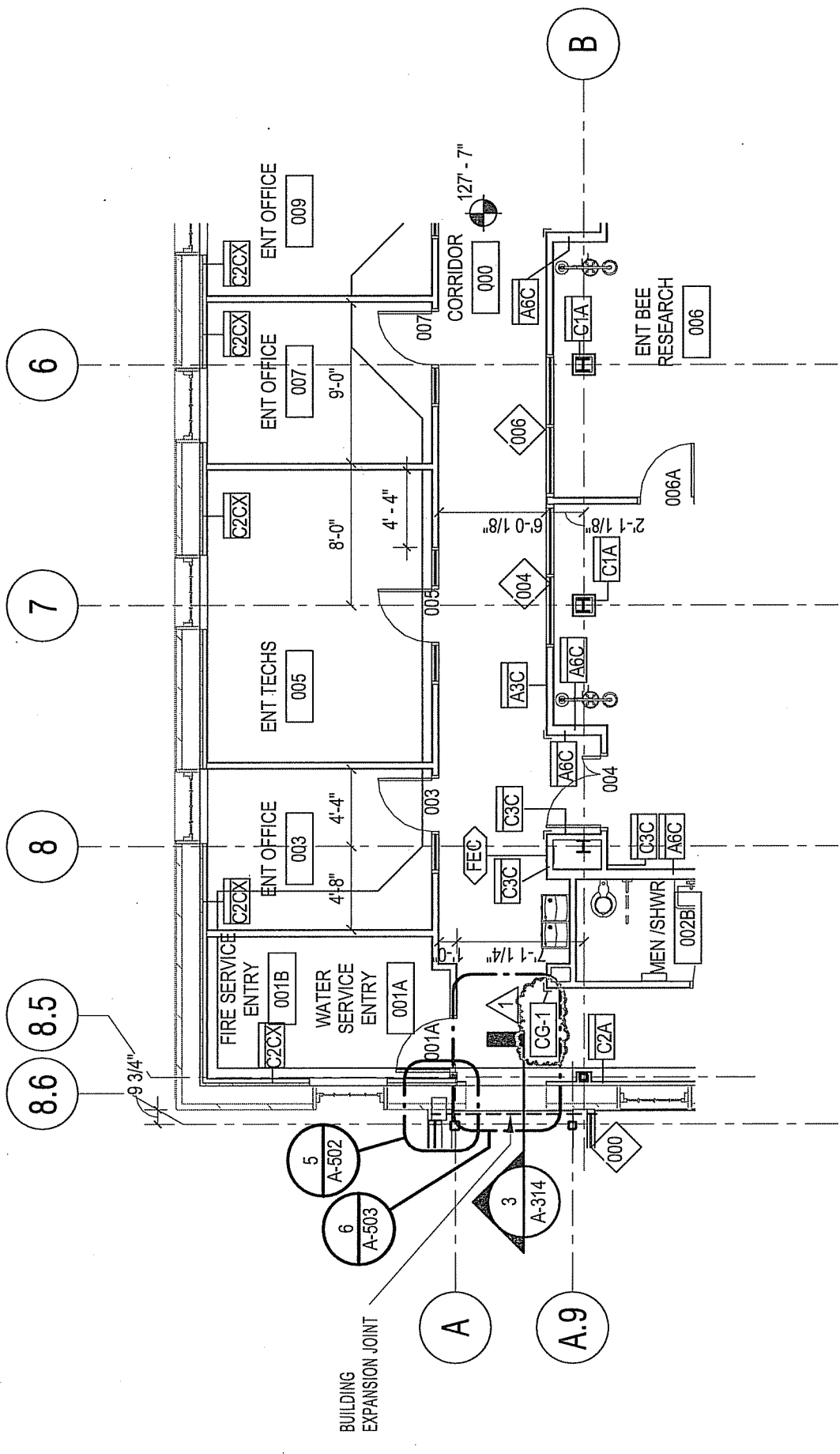


Sketch Title PART - FIRST FLOOR PLAN	DCS Project Number: BI - P - 86	Sketch Revised
	FLAD Project Number: 10844-00	Revision Number
Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	Reference Sheet A-101	Sketch Issue Date 01/23/13
Sketch Number ASK-A101C	RFI Number	Revision Number



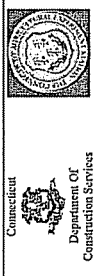
Flad Architects
 Department of Construction Services

ADDENDUM NO. 2

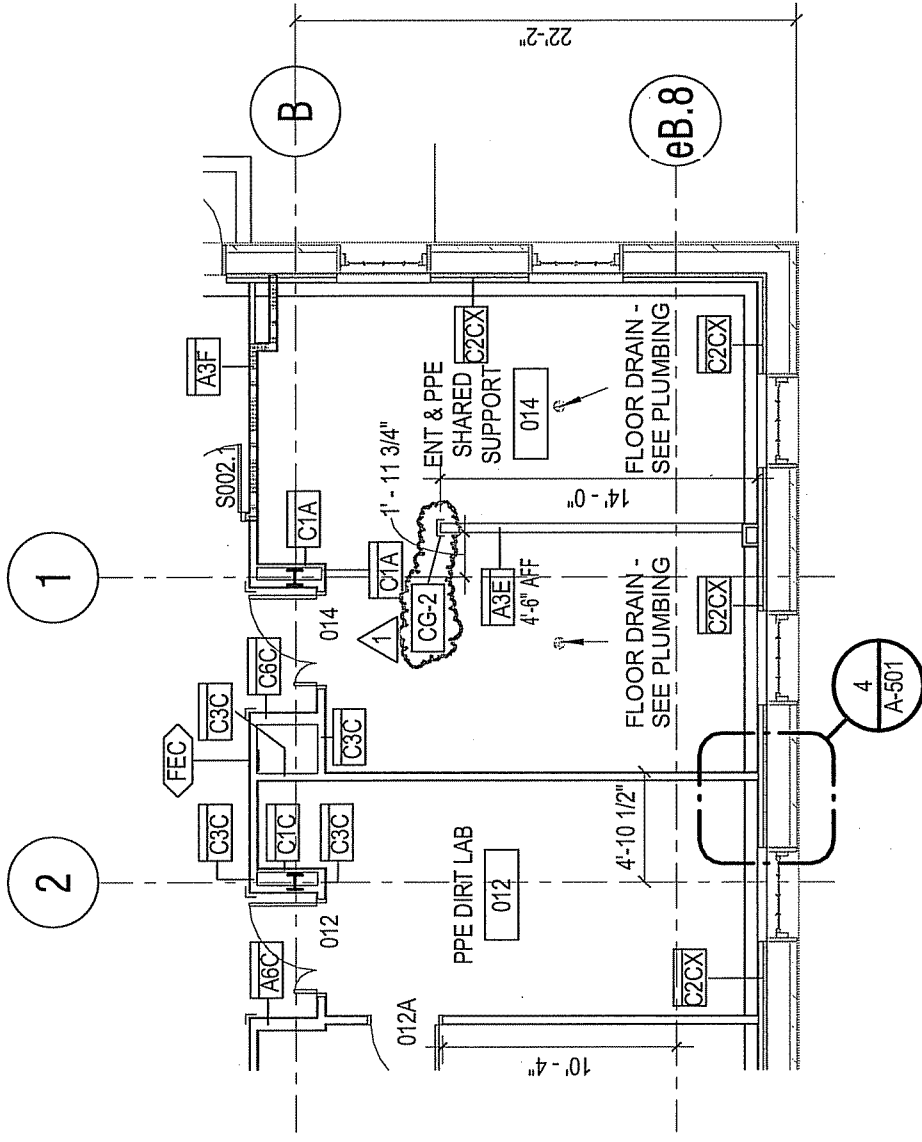


ADDENDUM NO. 2


DCS Project Number: BI - P - 86	Sketch Revised
FLAD Project Number: 10844-00	Revision Number
Sketch Title PART PLAN - LOWER LEVEL	Reference Sheet A-101
Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	RFI Number
Sketch Number ASK-A101d	Sketch Issue Date 01/23/13

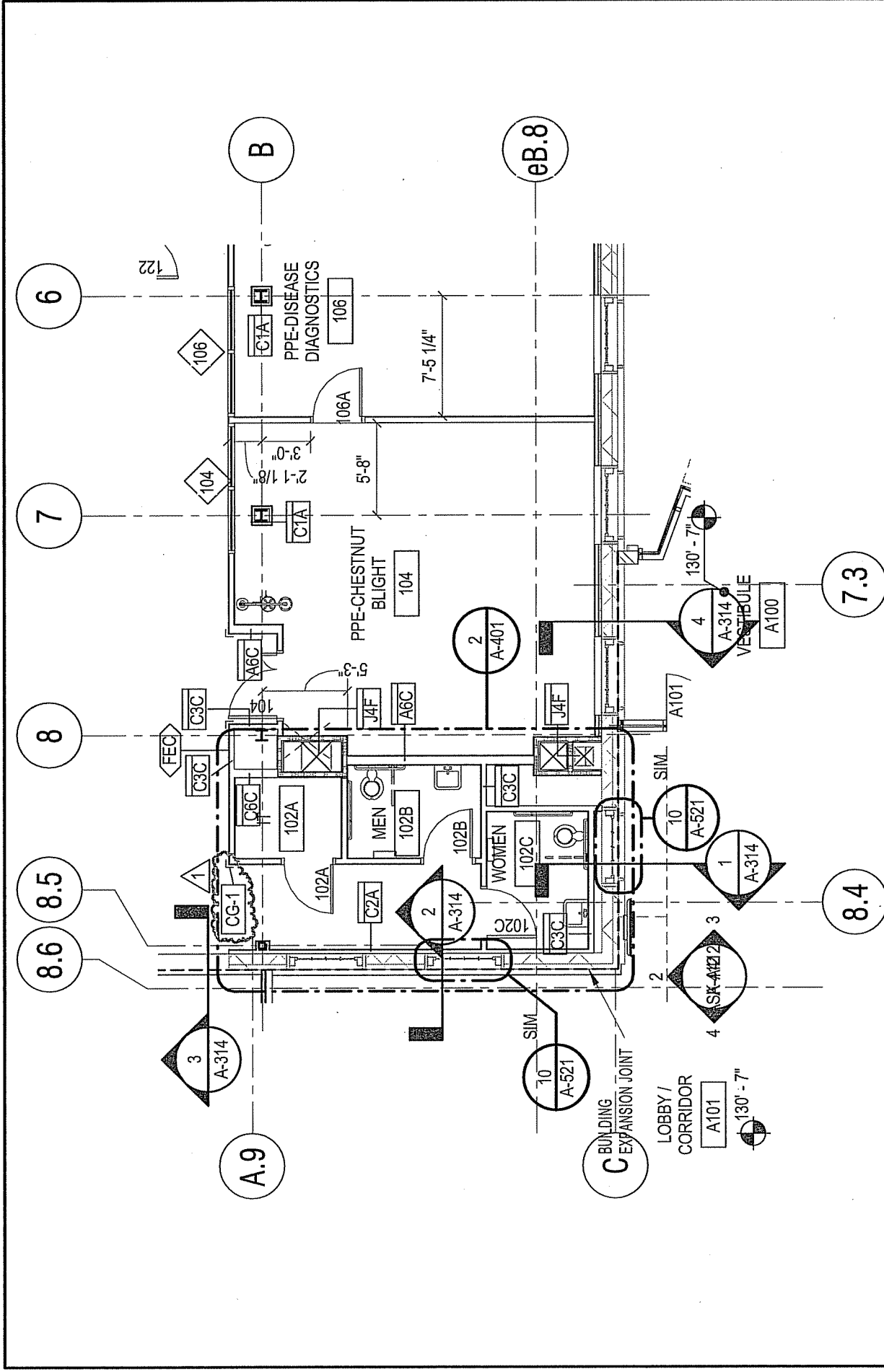


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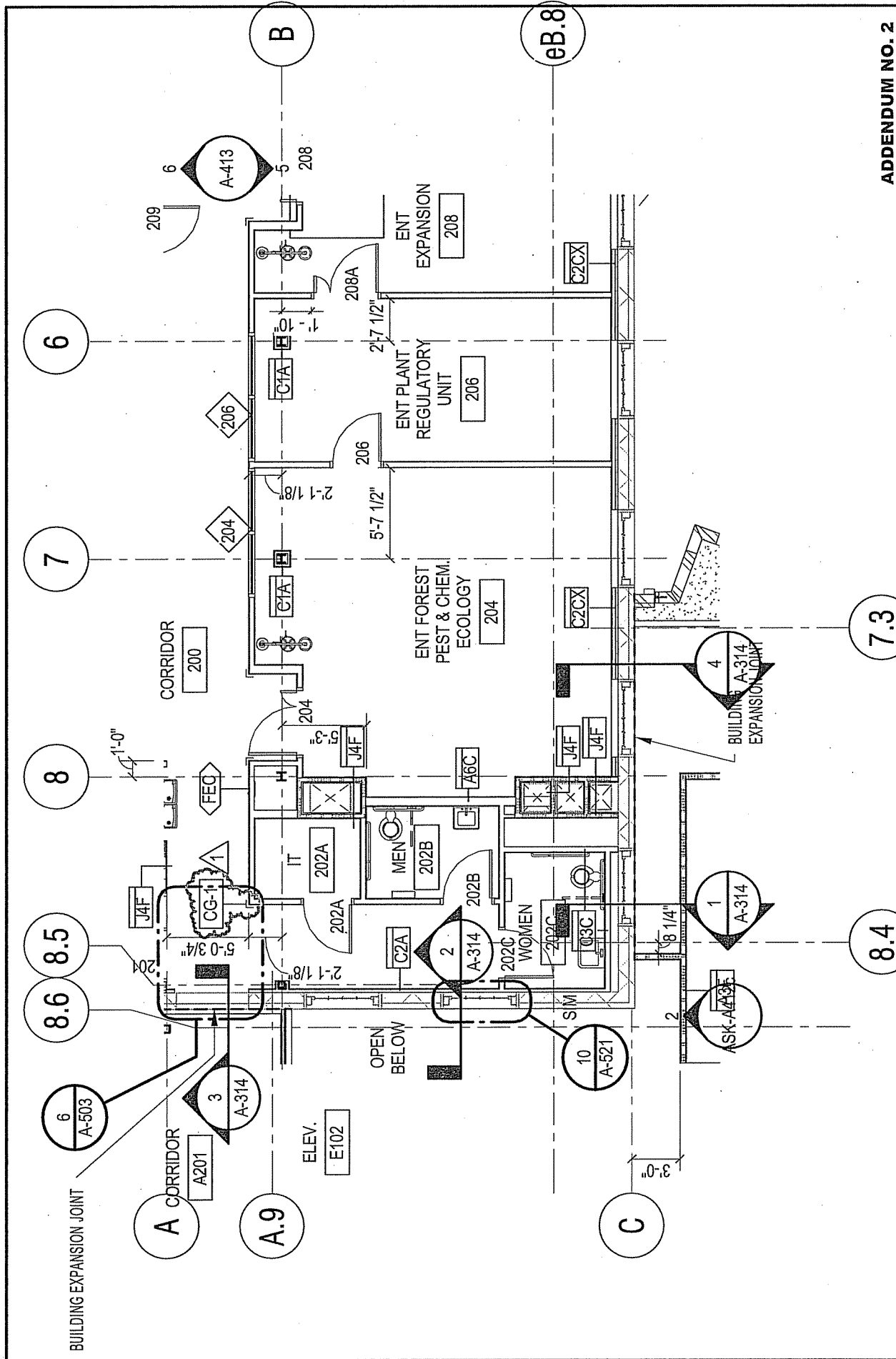
ADDENDUM NO. 2


 Connecticut Department of Construction Services	ASK-A101e Flad Architects	Sketch Title PART PLAN - LOWER LEVEL	DCS Project Number: B - P - 86	Sketch Revised
		Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number A-501		RFI Number	Reference Sheet A-101	

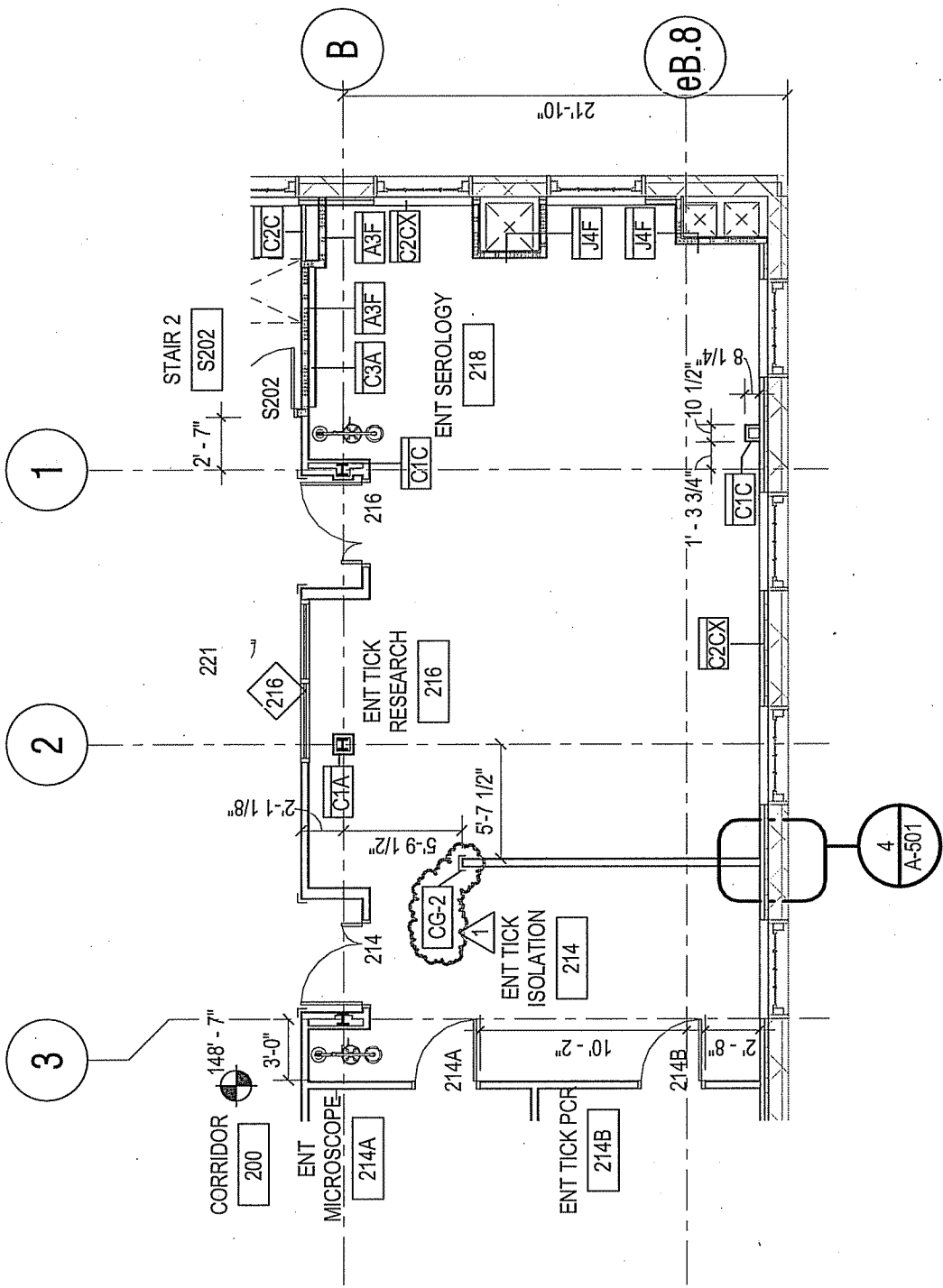


ADDENDUM NO. 2


Sketch Title PART PLAN - FIRST FLOOR PLAN Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	DCS Project Number: BJ - P - 86	Sketch Revised
	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A101f	RFI Number	Reference Sheet A-101
Connecticut  Department of Construction Services	Flad Architects	Sketch Issue Date 01/22/13

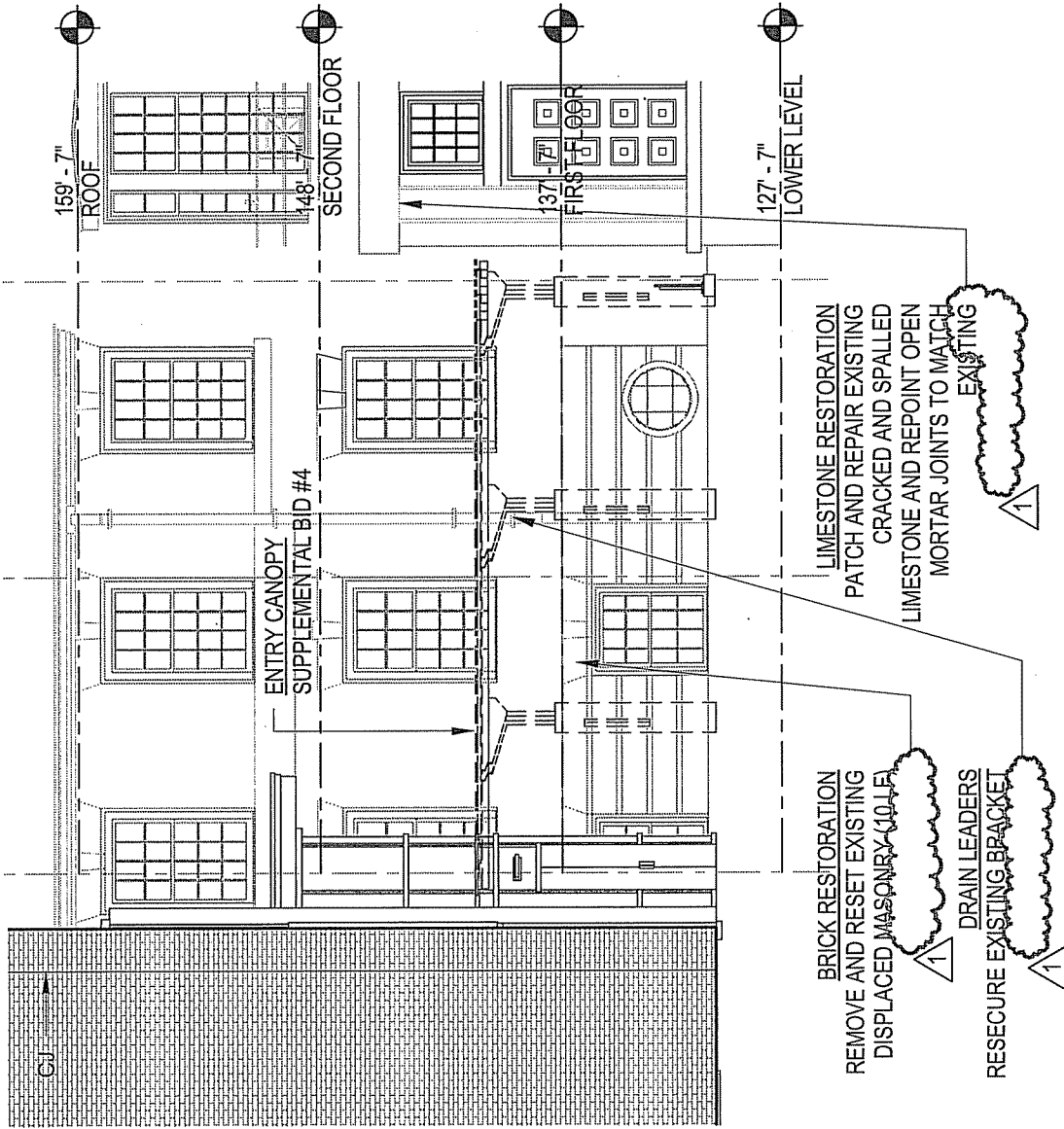


 Connecticut Department of Construction Services	ASK-A102C		Reference Sheet A-102	Revision Number 10844-00	Sketch Issue Date 01/23/13
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory		RFI Number	DCS Project Number: BI - P - 86 FLAD Project Number: 10844-00	Sketch Revised
Sketch Title PART PLAN - UPPER FLOOR PLAN		ADDENDUM NO. 2			




APPENDUM NO. 2

 Connecticut Department of Construction Services	Flad Architects		Sketch Title PART PLAN - UPPER FLOOR PLAN	DCS Project Number: BJ - P - 86	Sketch Revised
	ASK-A102d		Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number .
Sketch Number ASK-A102d			RFI Number .	Reference Sheet A-102	Sketch Issue Date 01/23/13



ADDENDUM NO. 2

 Connecticut Department of Construction Services	Sketch Title PARTIAL - SOUTH ELEVATION	Reference Sheet A-201	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	RFI Number	Revision Number
Sketch Number ASK-A201a	Sketch Issue Date 01/23/13	DCS Project Number: BI - P - 86	FLAD Project Number: 10844-00

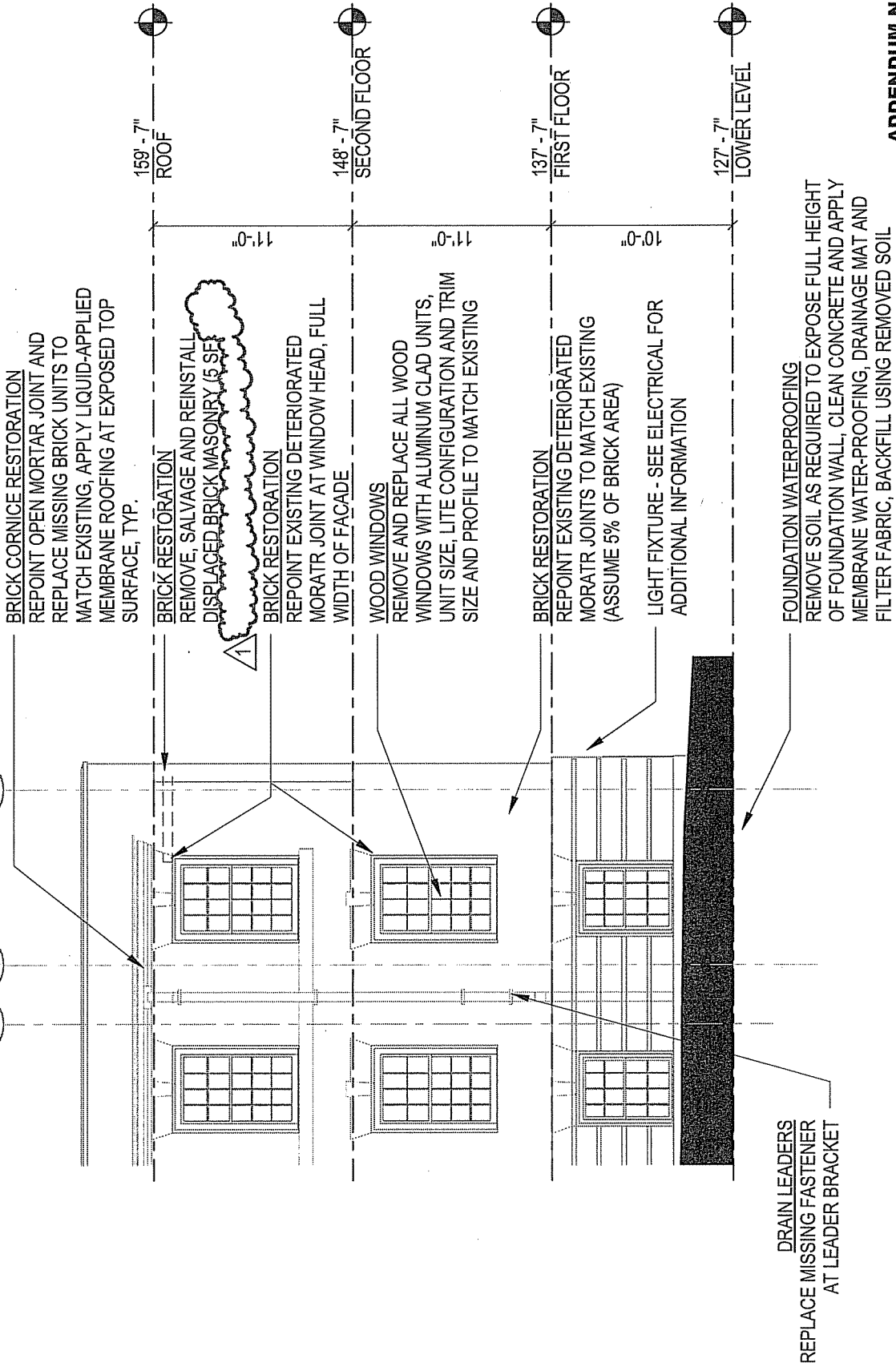
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 REMOVE AND RESET EXISTING
 DISPLACED MASONRY (40LFA)
 DRAIN LEADERS
 RESECURE EXISTING BRACKET

LIMESTONE RESTORATION
 PATCH AND REPAIR EXISTING
 CRACKED AND SPALLED
 LIMESTONE AND REPOINT OPEN
 MORTAR JOINTS TO MATCH
 EXISTING


Flad Architects

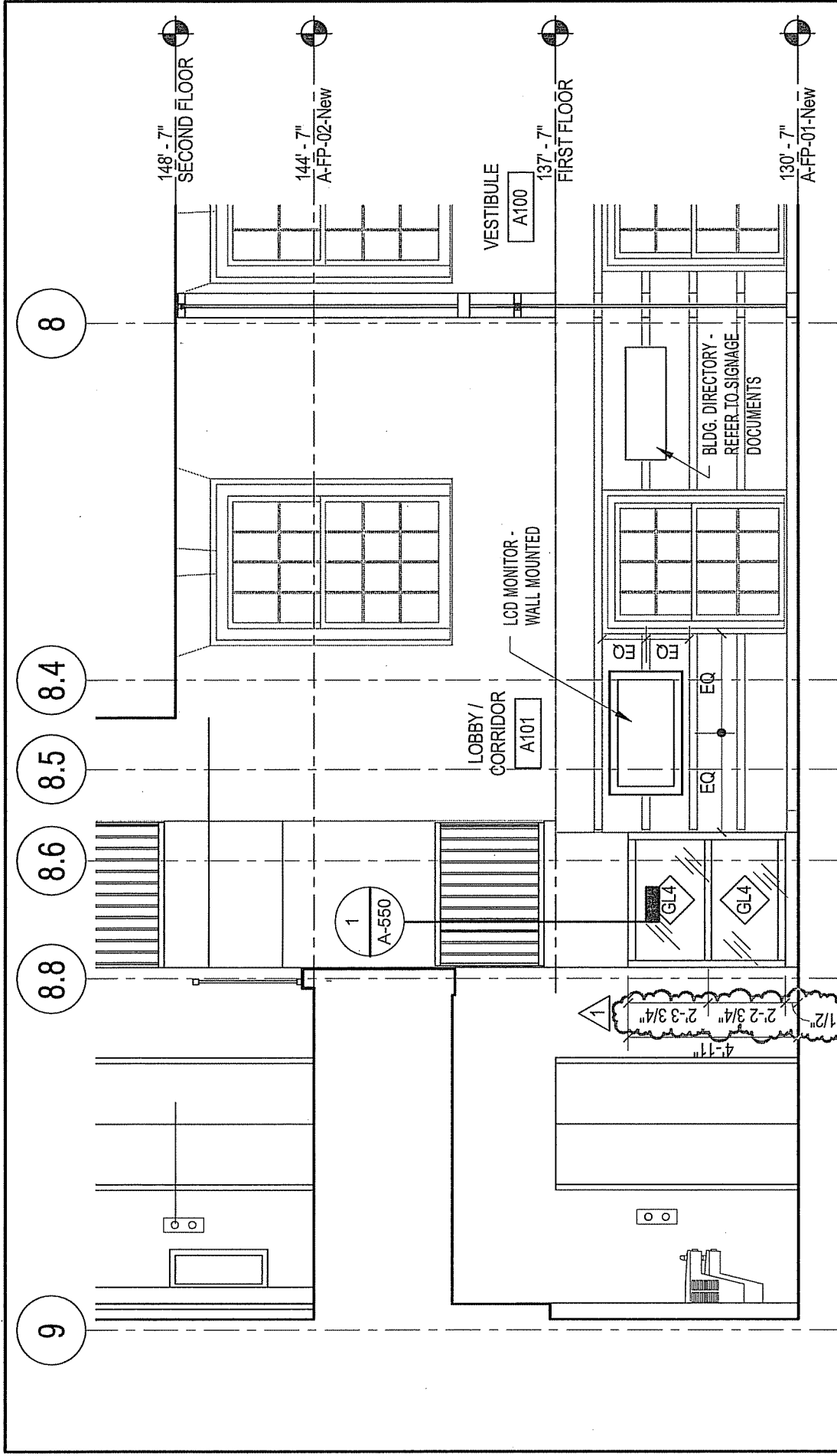
S2

1 S1



ADDENDUM NO. 2


 Flad Architects	Sketch Title PARTIAL - SOUTH ELEVATION	DCS Project Number: BI - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A201b	RFI Number	Reference Sheet A-201	Sketch Issue Date 01/23/13



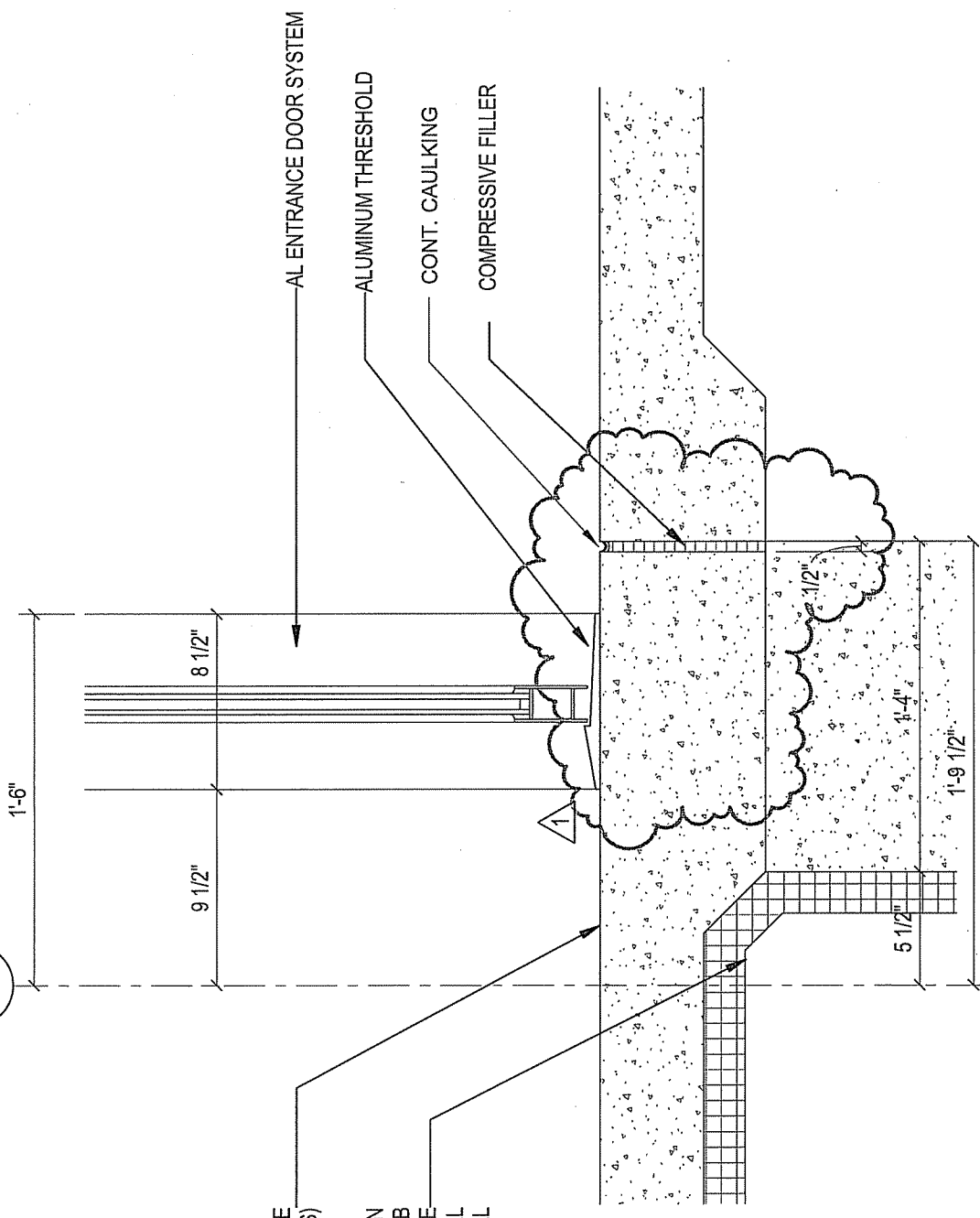
2 LOBBY INTERIOR ELEVATION

1/4" = 1'-0"

ADDENDUM NO. 2

 Connecticut Department of Construction Services	Sketch Title PART ELEV - LOBBY INTERIOR ELEVATION	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A412C	RFI Number	Reference Sheet A-412	Sketch Issue Date 01/23/13

F




SLAB ON GRADE (SEE STRUCTURAL DWGS)

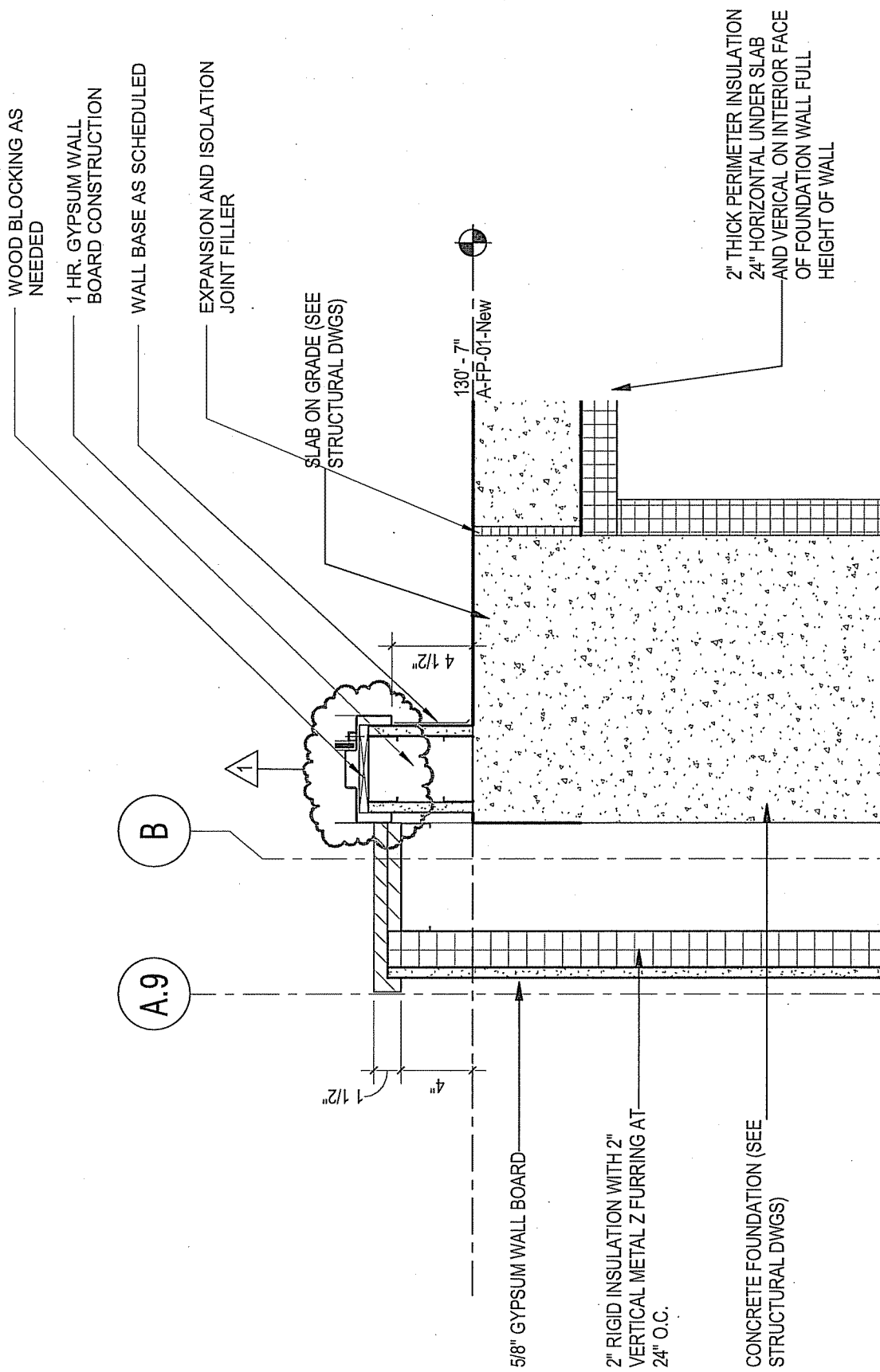
2" THICK PERIMETER INSULATION
24" HORIZONTAL UNDER SLAB
AND VERTICAL ON INTERIOR FACE
OF FOUNDATION WALL FULL
HEIGHT OF WALL

BASE DETAIL AT SOUTH CURTAIN WALL

3 1 1/2" = 1'-0"

ADDENDUM NO. 2


 Connecticut Department Of Construction Services	Sketch Title BASE DETAIL AT SOUTH CURTAIN WALL	DCS Project Number: BI - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number .
Sketch Number ASK-A512	RFI Number .	Reference Sheet A-512	Sketch Issue Date 01/23/13

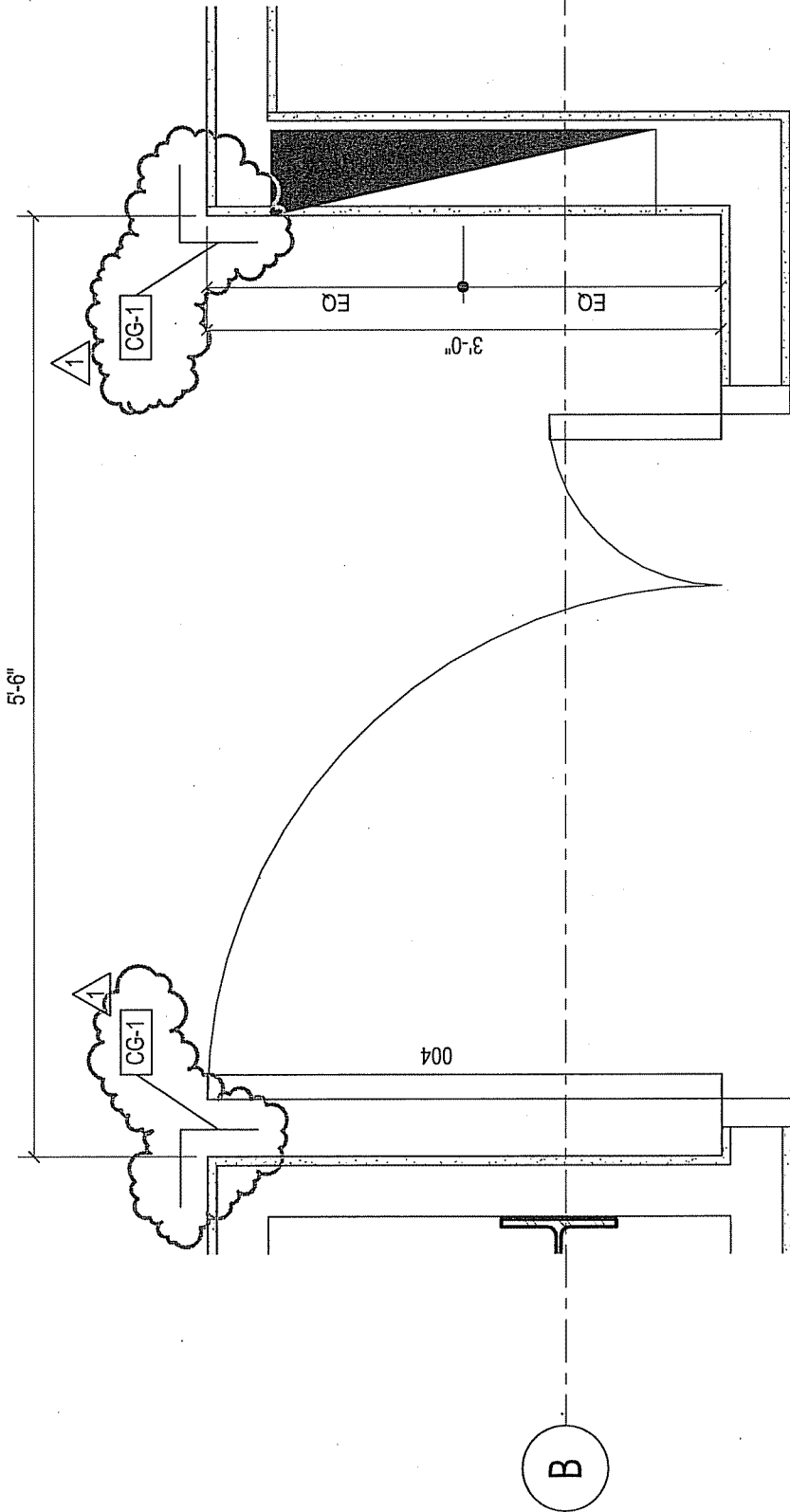


1 FOUNDATION WALL AT LOWER LEVEL

1 1/2" = 1'-0"

ADDENDUM NO. 2


 Connecticut Department of Construction Services	Sketch Title PART DETAIL - FNDTN. WALL AT LOWER LEVEL	DCS Project Number: BI - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A516b	RFI Number	Reference Sheet A-516	



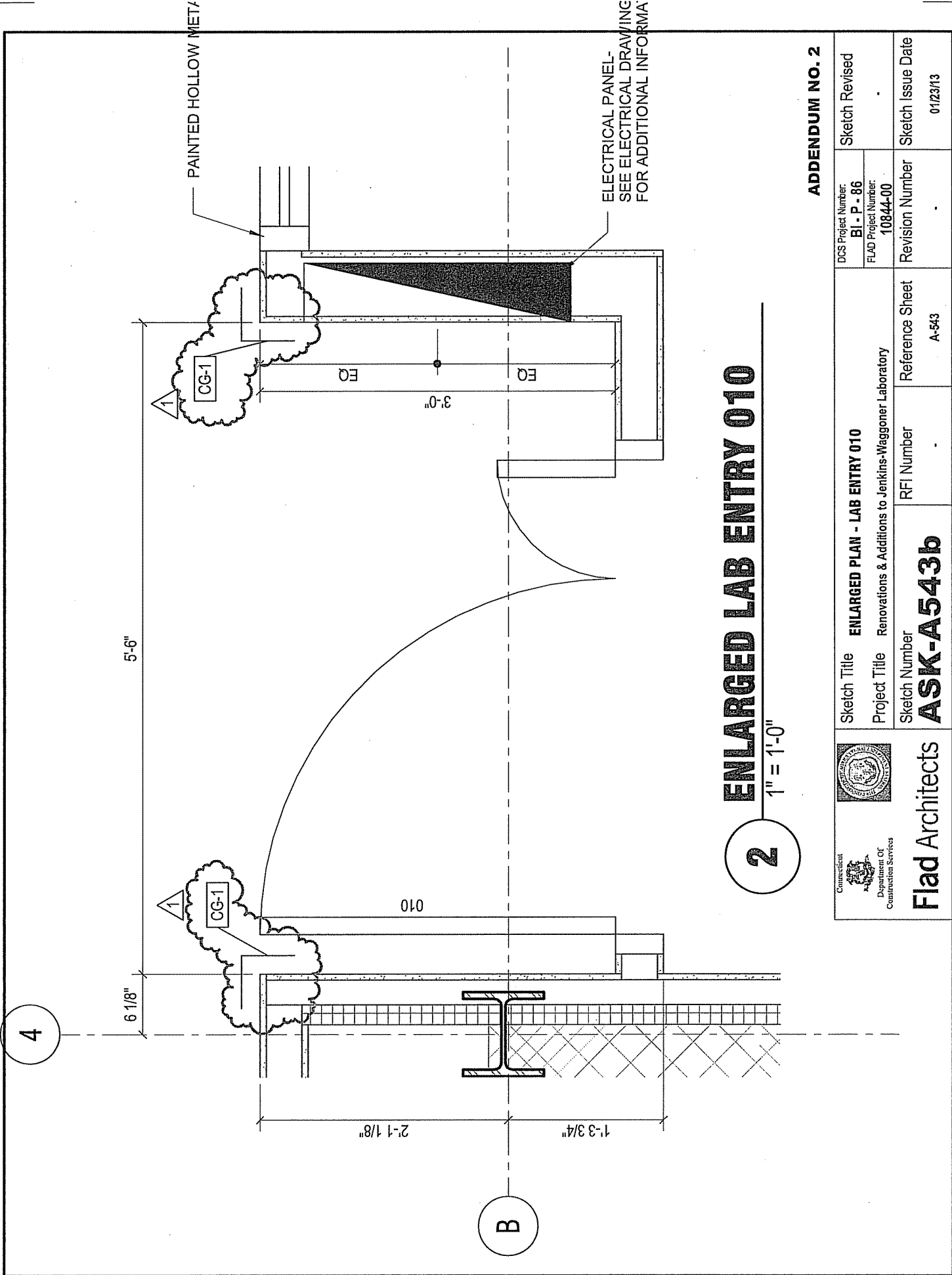
1 ENLARGED LAB ENTRY PLAN 004

1" = 1'-0"

ADDENDUM NO. 2

 Connecticut Department of Construction Services	ASK-A543a Sketch Number	RFI Number -	Reference Sheet A-543	DCS Project Number: BJ - P - 86 FLAD Project Number: 10844-00	Sketch Revised .
	Sketch Title ENLARGED PLAN - LAB ENTRY 004	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory		Revision Number .	Sketch Issue Date 01/23/13


Flad Architects

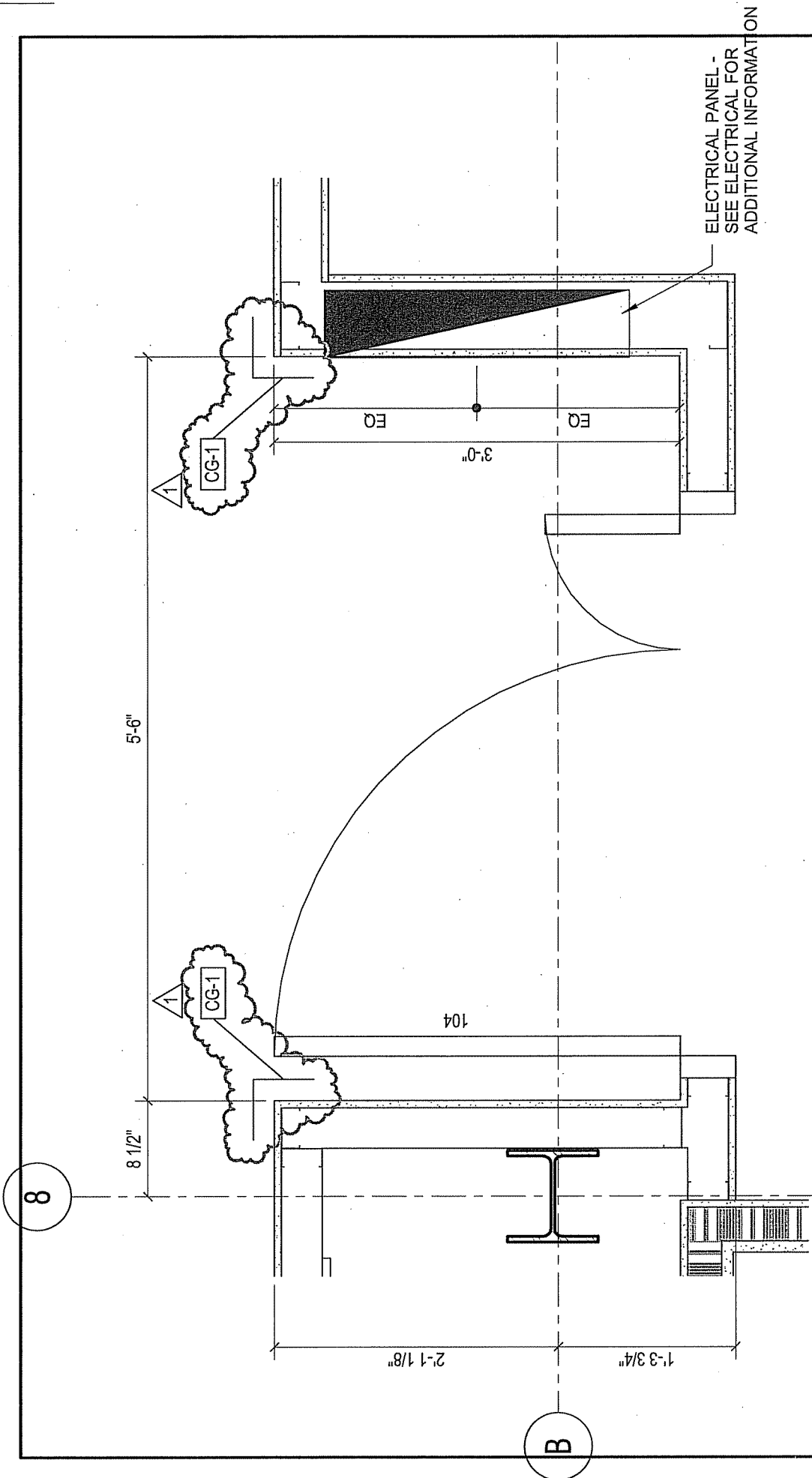


ENLARGED LAB ENTRY 010

2
1" = 1'-0"

APPENDUM NO. 2

 Connecticut Department of Construction Services	ENLARGED PLAN - LAB ENTRY 010 Renovations & Additions to Jenkins-Waggoner Laboratory	DCS Project Number: BJ - P - 86 FLAD Project Number: 10844-00	Sketch Revised .
	Sketch Title ENLARGED PLAN - LAB ENTRY 010 Project Title Renovations & Additions to Jenkins-Waggoner Laboratory Sketch Number ASK-A543b	RFI Number .	Reference Sheet A-543




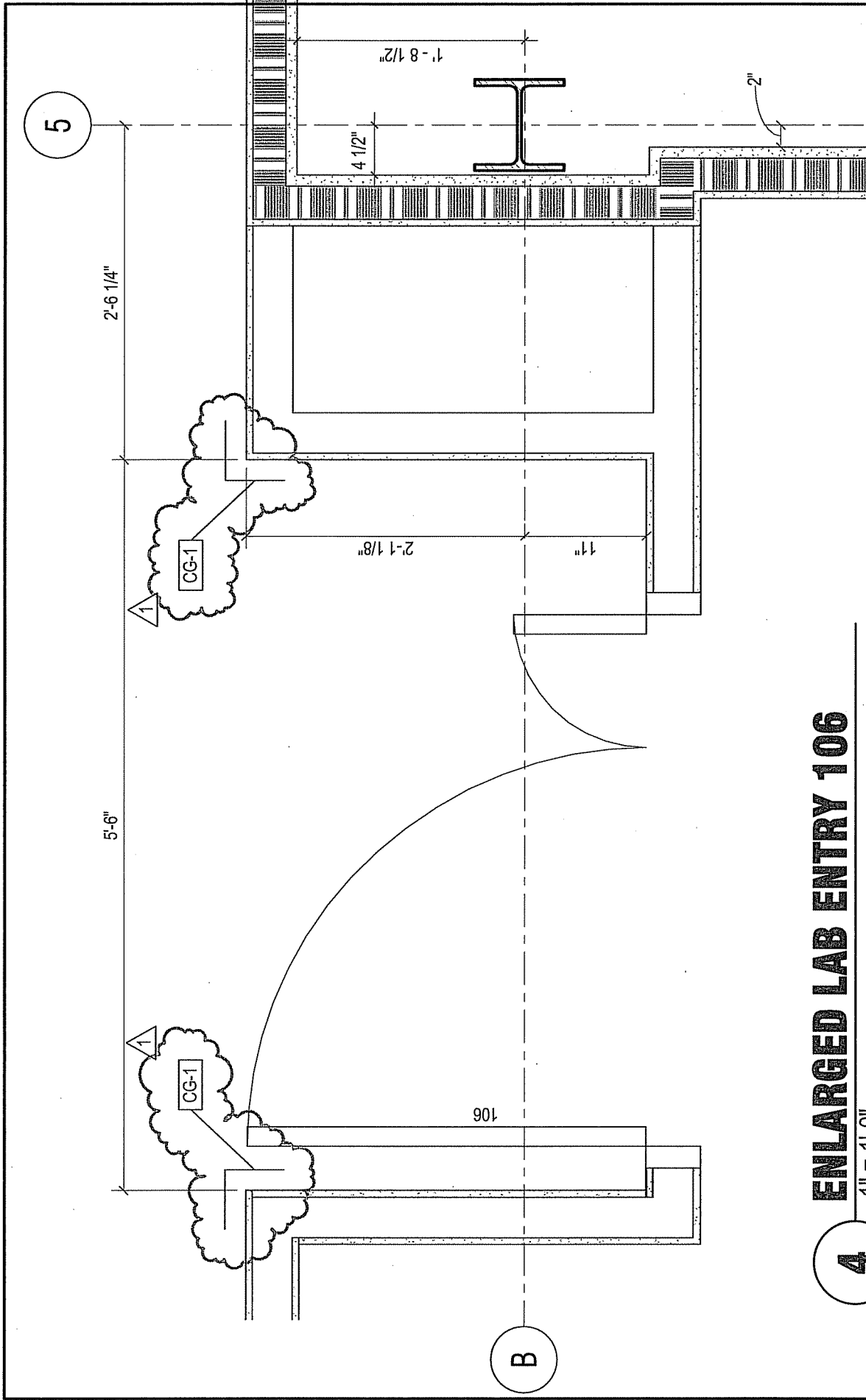
ENLARGED LAB ENTRY 104

1" = 1'-0"

3

ADDENDUM NO. 2


 Connecticut Department of Construction Services	ENLARGED PLAN - LAB ENTRY 104 Renovations & Additions to Jenkins-Waggoner Laboratory	Reference Sheet A-543	Sketch Revised
	Sketch Title ASK-A543C	RFI Number	Revision Number
Project Title Renovations & Additions to Jenkins-Waggoner Laboratory		DCS Project Number: BJ - P - 86 FLAD Project Number: 10844-00	

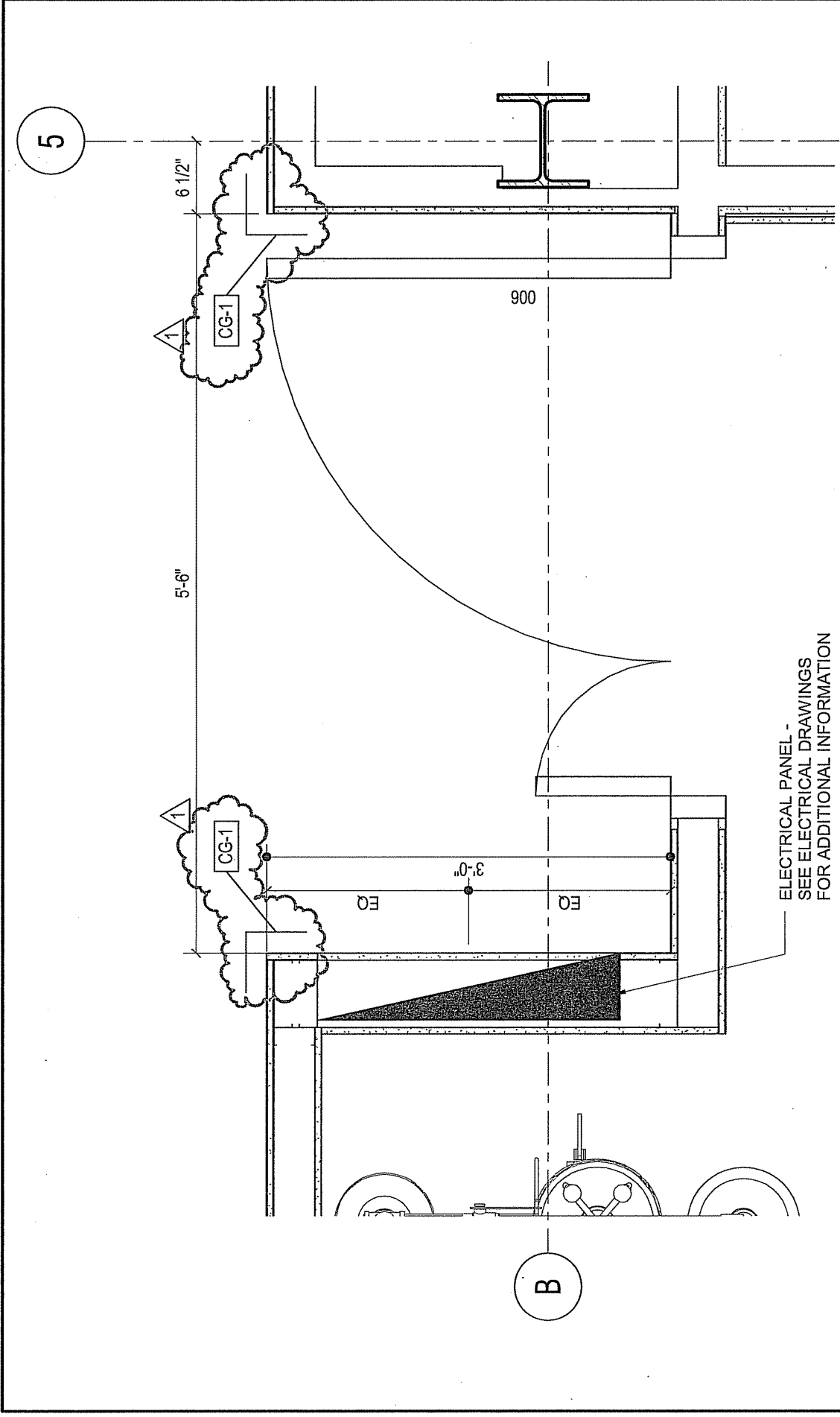


ENLARGED LAB ENTRY 106

1" = 1'-0"

ADDENDUM NO. 2


 Connecticut Department of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 106	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number 10844-00	Revision Number
Sketch Number ASK-A543d	RFI Number	Reference Sheet A-543	Sketch Issue Date



5 ENLARGED LAB ENTRY 006

1" = 1'-0"

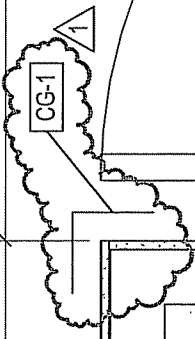
ADDENDUM NO. 2

 Connecticut Department of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 006	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A543e	RFI Number	Reference Sheet A-543	Sketch Issue Date 01/23/13

5

2'-0"

5'-6"



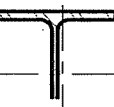
CG-1

CG-1

EQ

3'-0"

B

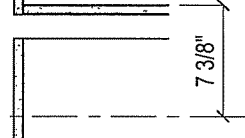


800

EQ

1'-3 3/4"

2'-1 1/8"




7 3/8"

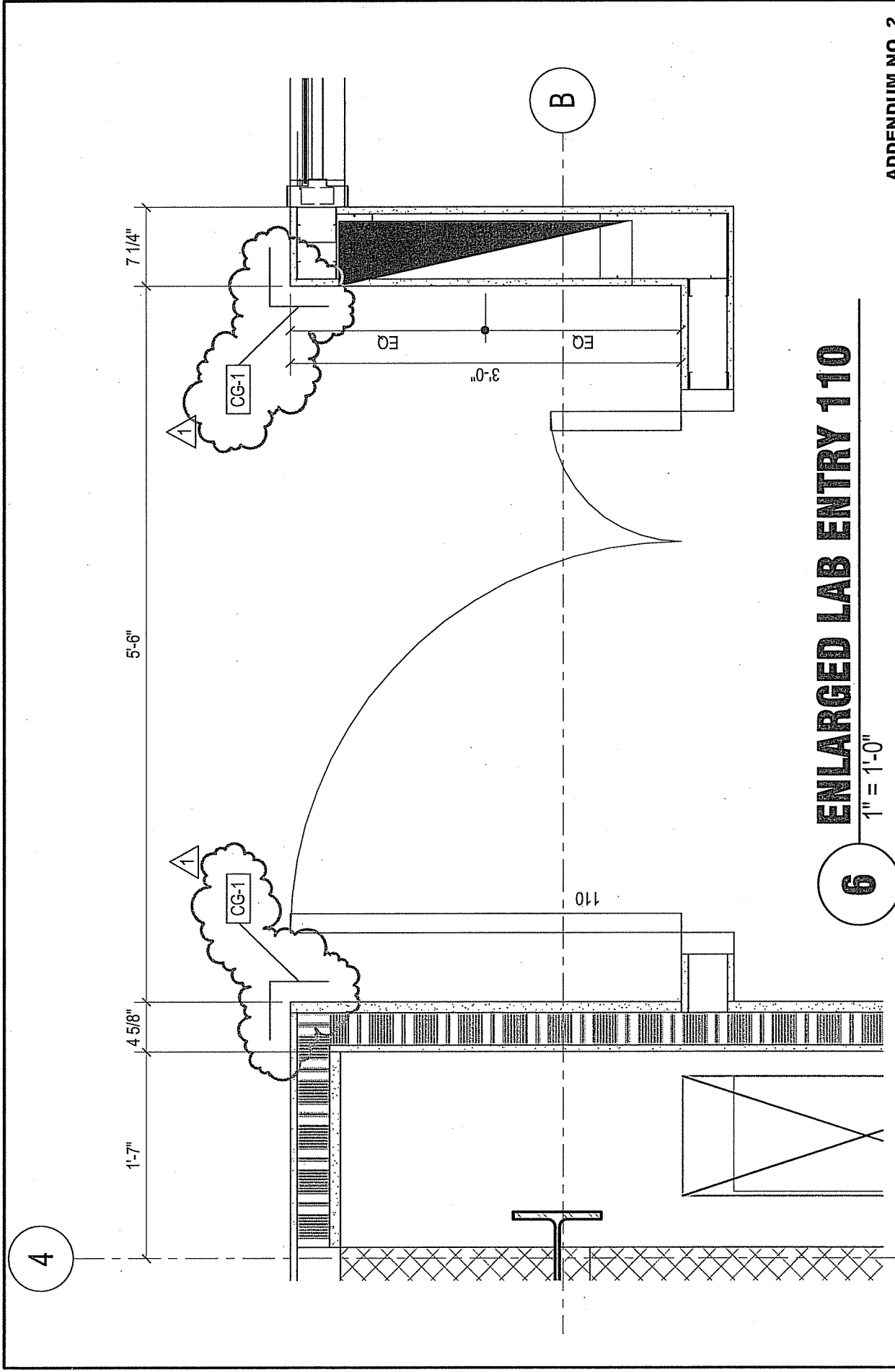
ENLARGED LAB ENTRY 008

1" = 1'-0"

5


APPENDUM NO. 2

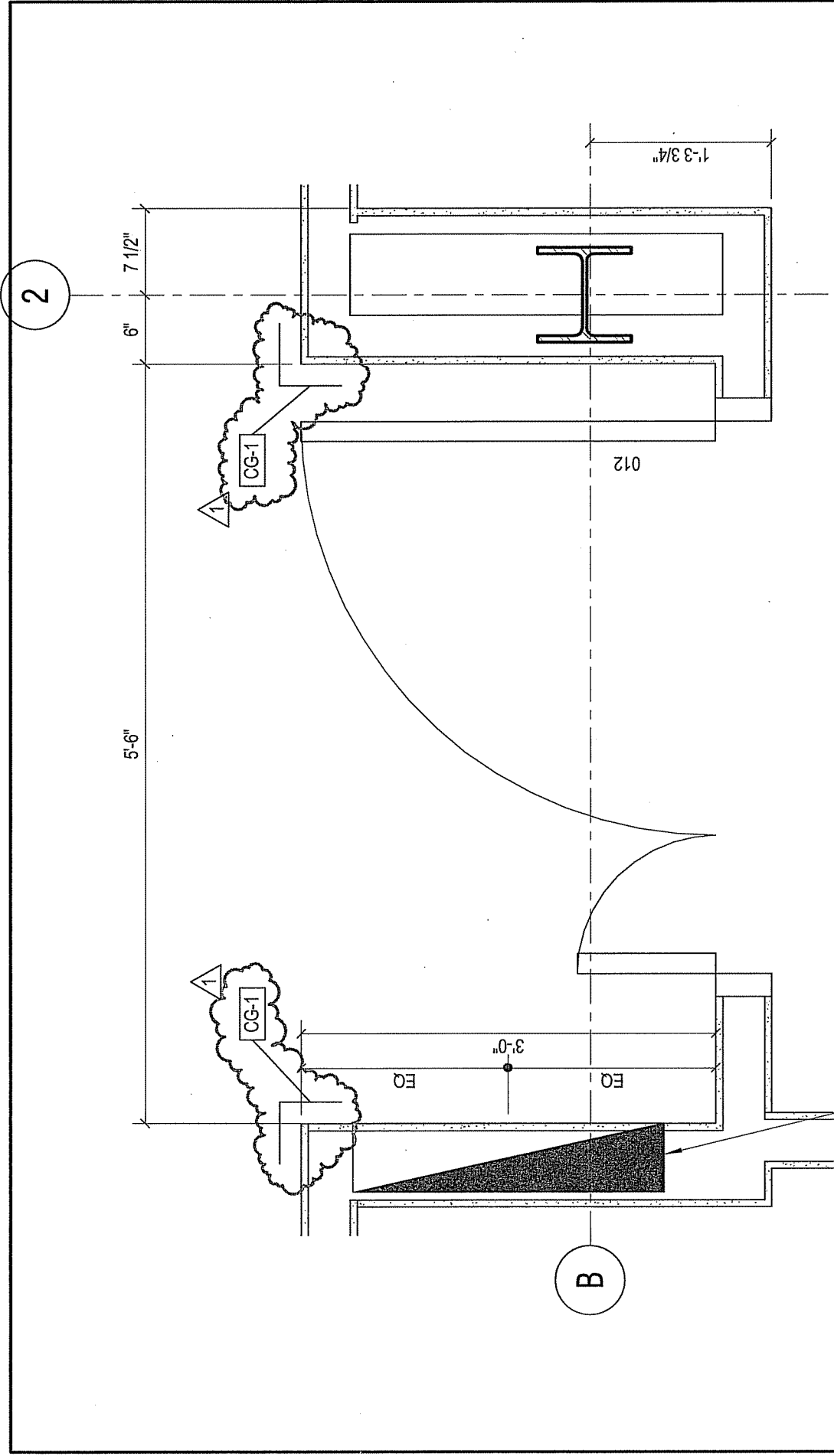
 Connecticut Department of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 008	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A543f	RFI Number	Reference Sheet A-543	Sketch Issue Date 01/23/13



6 ENLARGED LAB ENTRY 110
1" = 1'-0"

ADDENDUM NO. 2

 Connecticut Department of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 110	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A543g	RFI Number	Reference Sheet A-543	Sketch Issue Date 01/23/13




7 ENLARGED LAB ENTRY 012

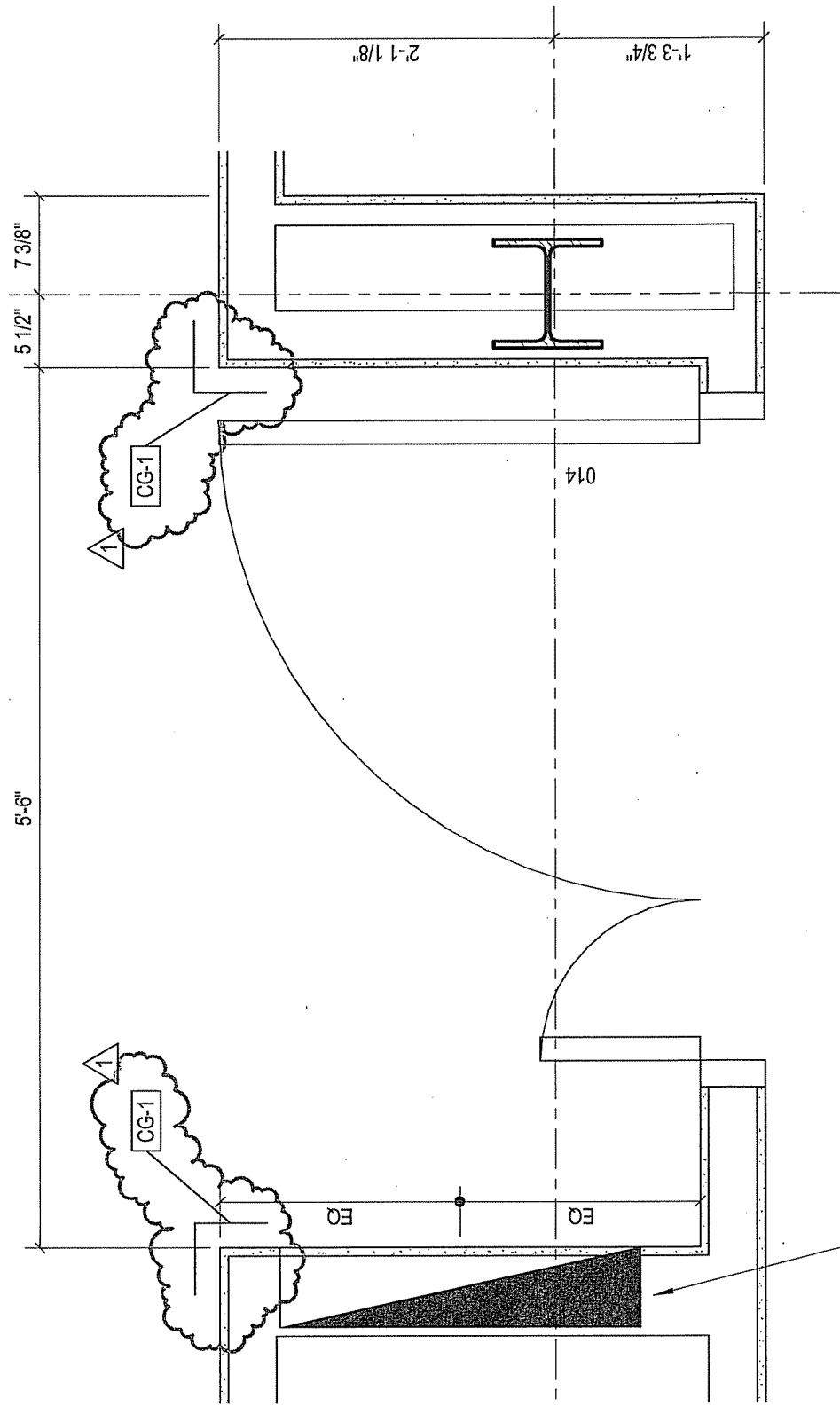
1" = 1'-0"

APPENDUM NO. 2

ELECTRICAL PANEL -
SEE ELECTRICAL DRAWINGS
FOR ADDITIONAL INFORMATION

 Connecticut Department of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 012	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
ASK-A543h	Sketch Number ASK-A543h	Reference Sheet A-543	RFI Number
Flad Architects	RFI Number	Reference Sheet A-543	Sketch Issue Date 01/23/13


1



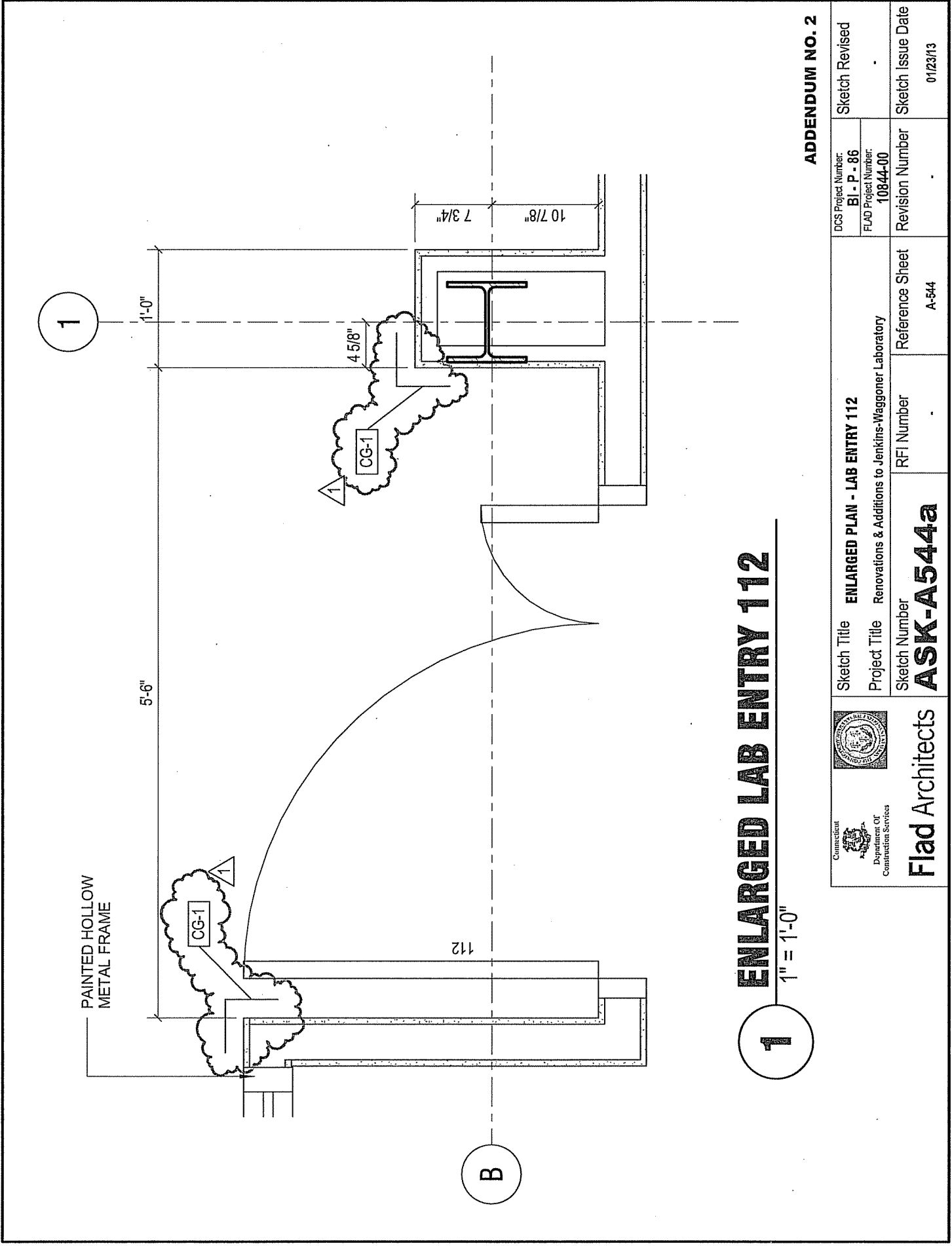
ELECTRICAL PANEL -
SEE ELECTRICAL DRAWINGS
FOR ADDITIONAL INFORMATION

7 ENLARGED LAB ENTRY 014
1" = 1'-0"

ADDENDUM NO. 2

 Connecticut Department of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 014	DCS Project Number: BI - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number 10844-00	Revision Number
ASK-A543i	RFI Number	Reference Sheet A-543	Sketch Issue Date


Flad Architects

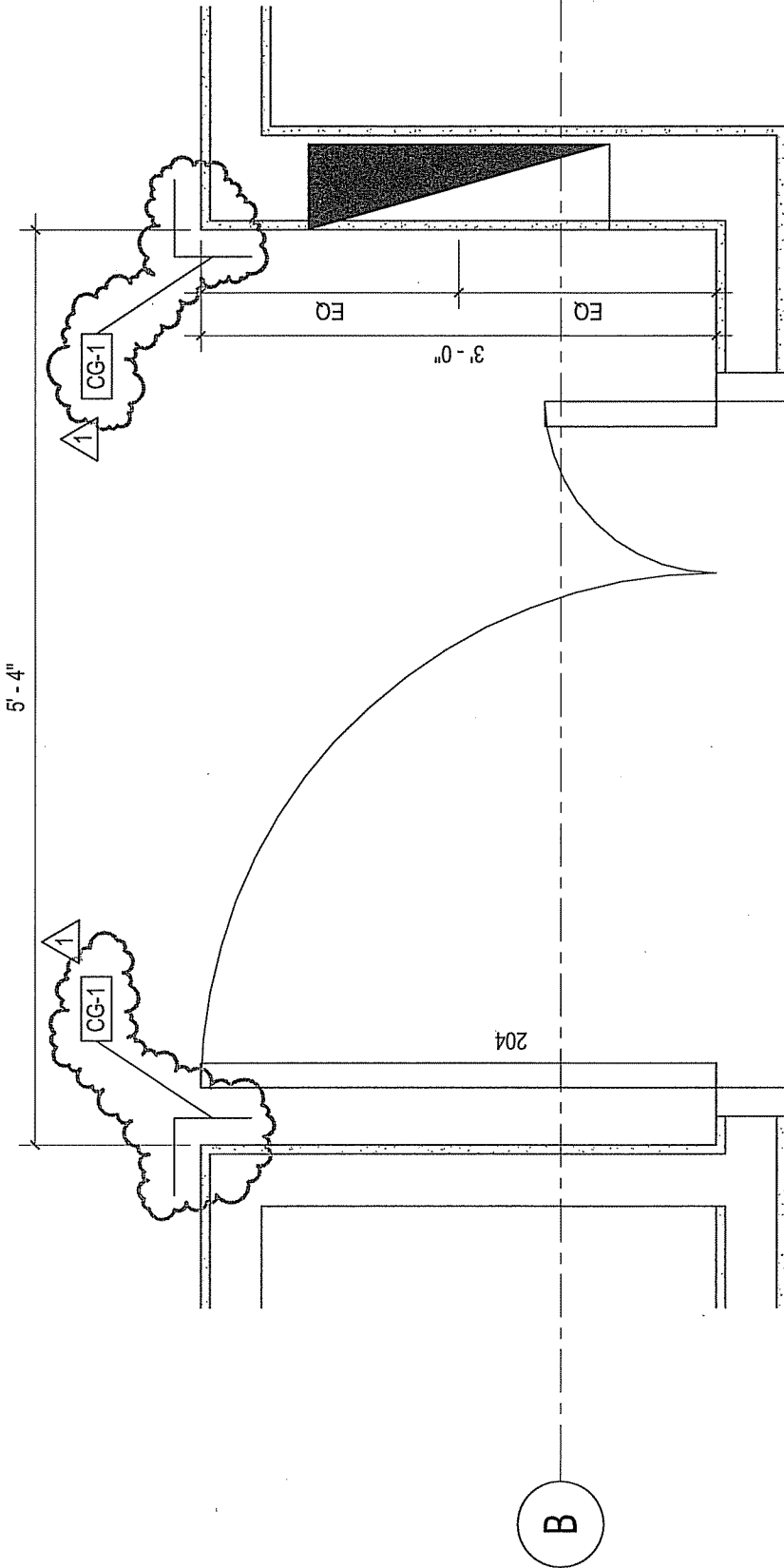


1 ENLARGED LAB ENTRY 112

1" = 1'-0"

ADDENDUM NO. 2

 Connecticut Department of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 112	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A544a	RFI Number	Reference Sheet A-544	Sketch Issue Date 01/23/13




ENLARGED LAB ENTRY 204

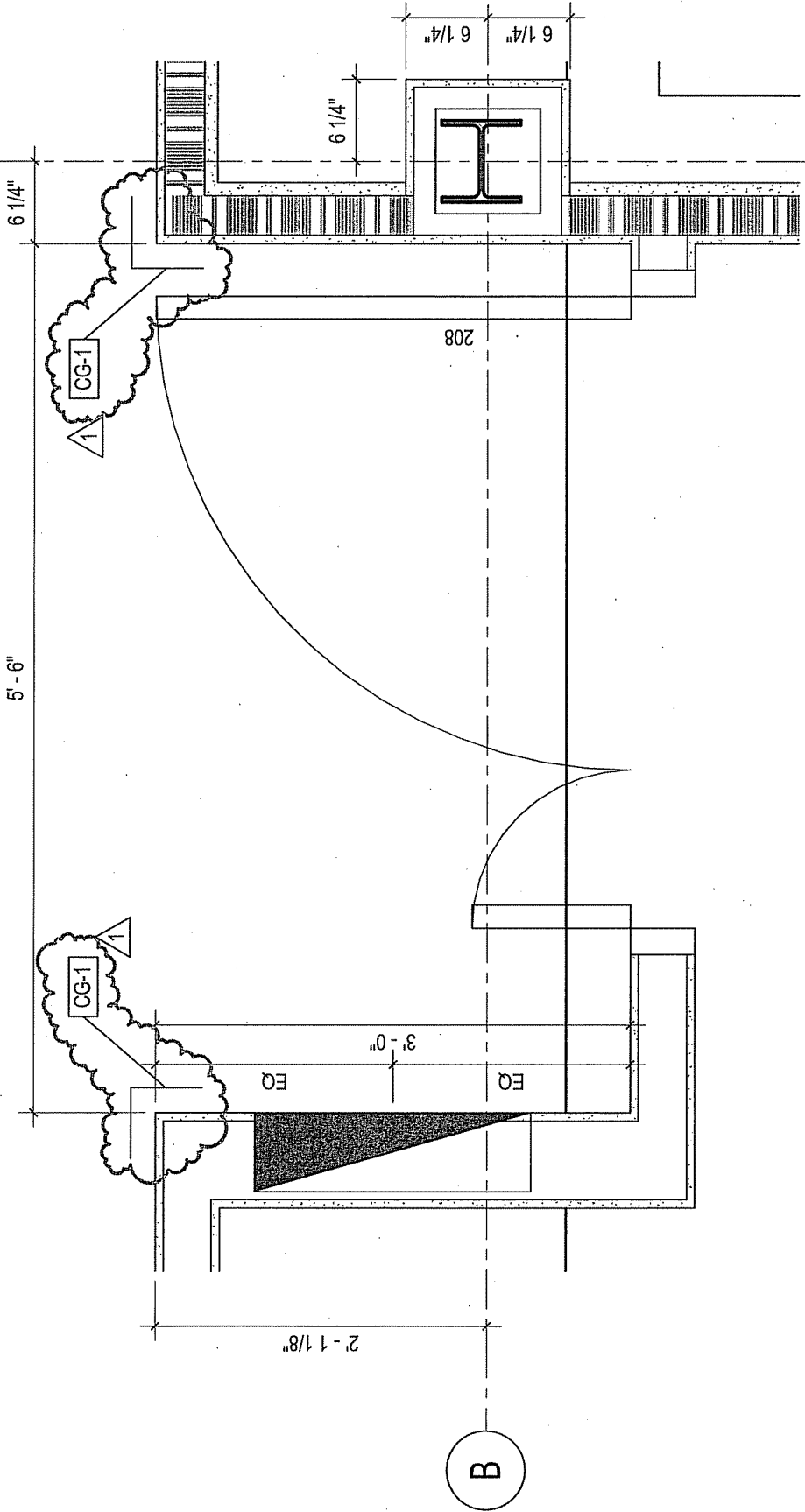
1" = 1'-0"

2

ADDENDUM NO. 2

 Connecticut Department of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 204	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A544b	RFI Number	Reference Sheet A-544	Sketch Issue Date 01/23/13

5




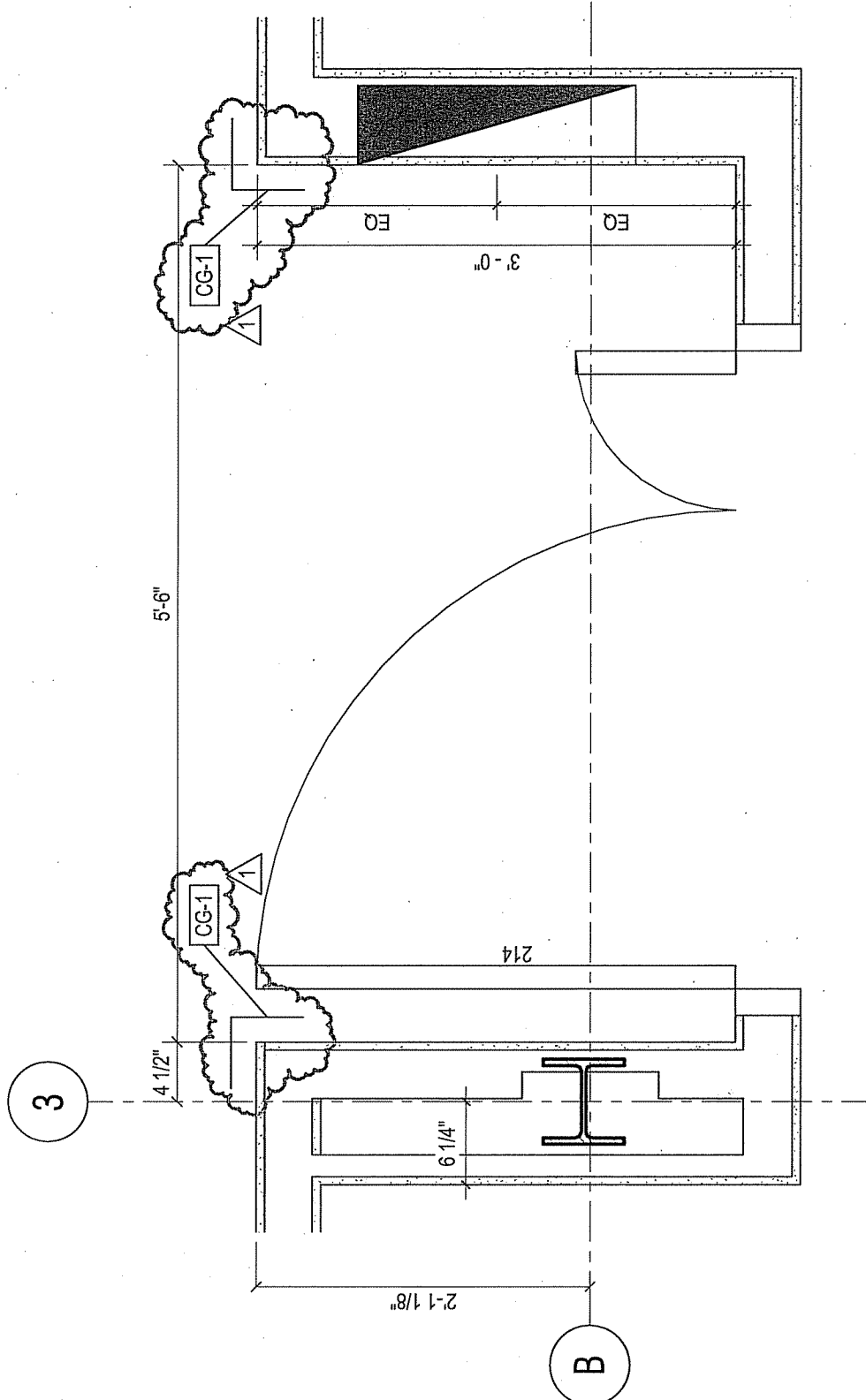
ENLARGED LAB ENTRY 208

1" = 1'-0"

3


APPENDUM NO. 2

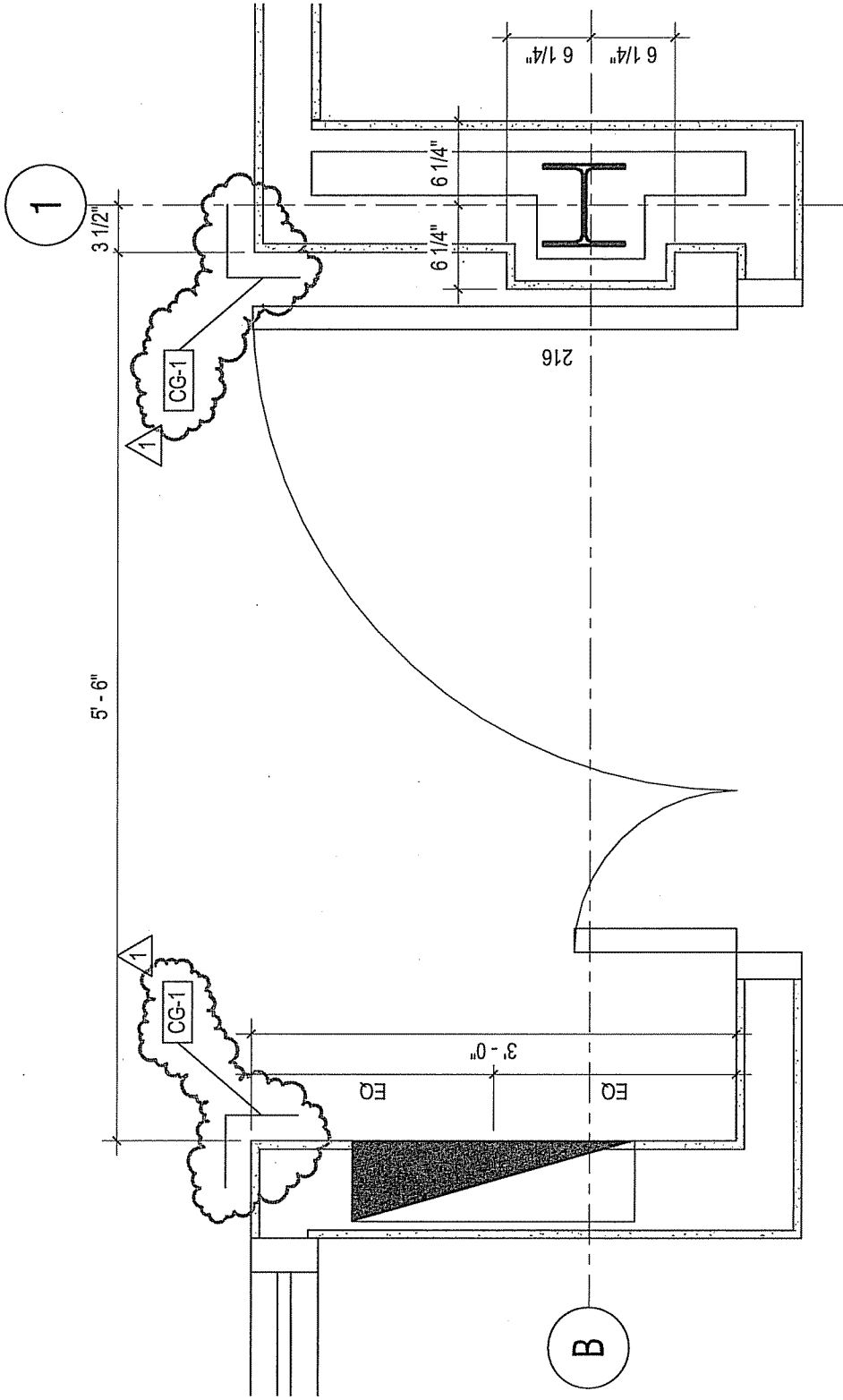
 Connecticut Department Of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 208	DCS Project Number: BI - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A544C	RFI Number	Reference Sheet A-544	



1 ENLARGED LAB ENTRY 214
1" = 1'-0"

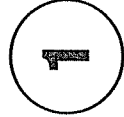
ADDENDUM NO. 2

 Connecticut Department of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 214	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A544d	RFI Number	Reference Sheet A-544	Sketch Issue Date 01/23/13




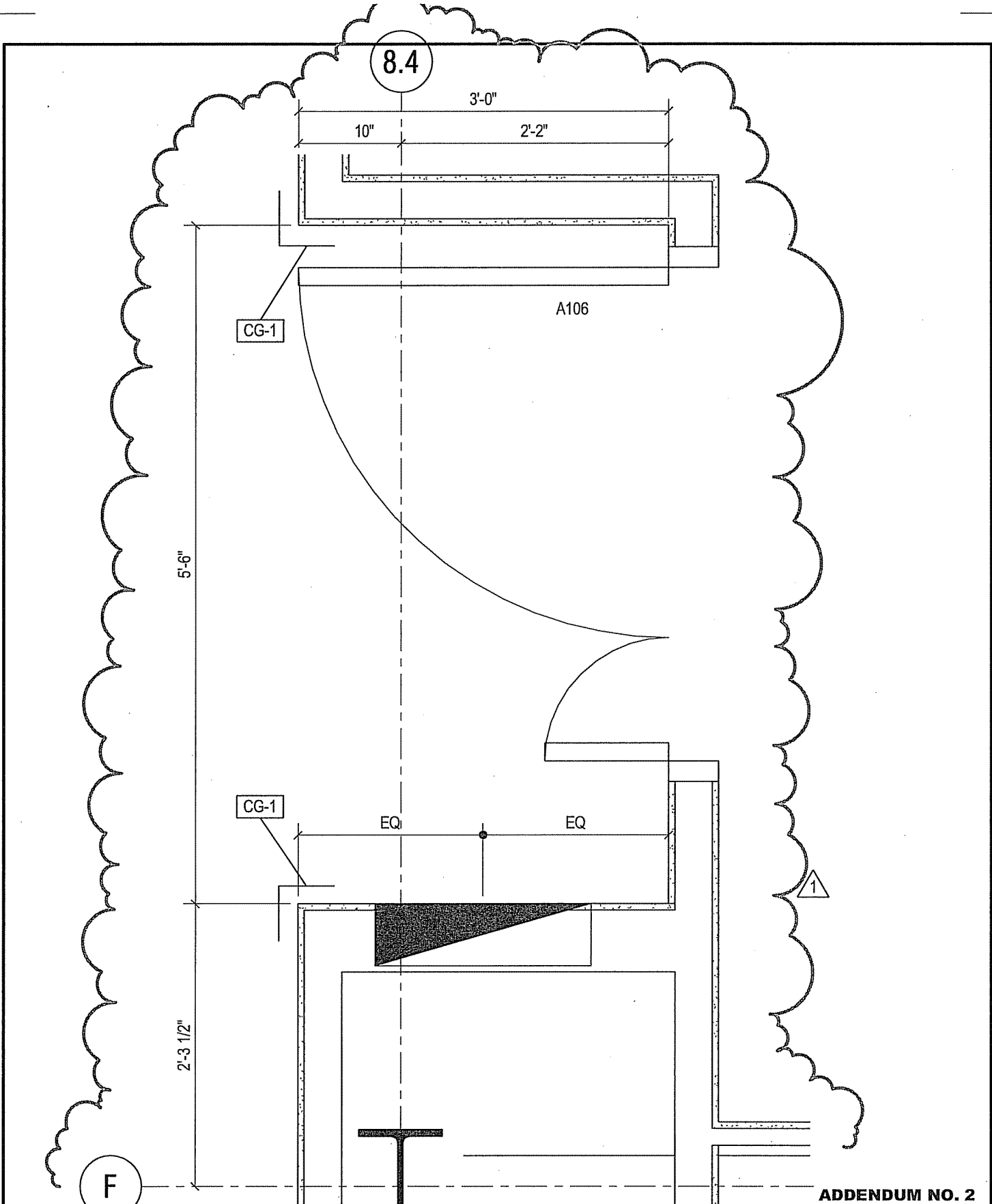
ENLARGED LAB ENTRY 216

1" = 1'-0"





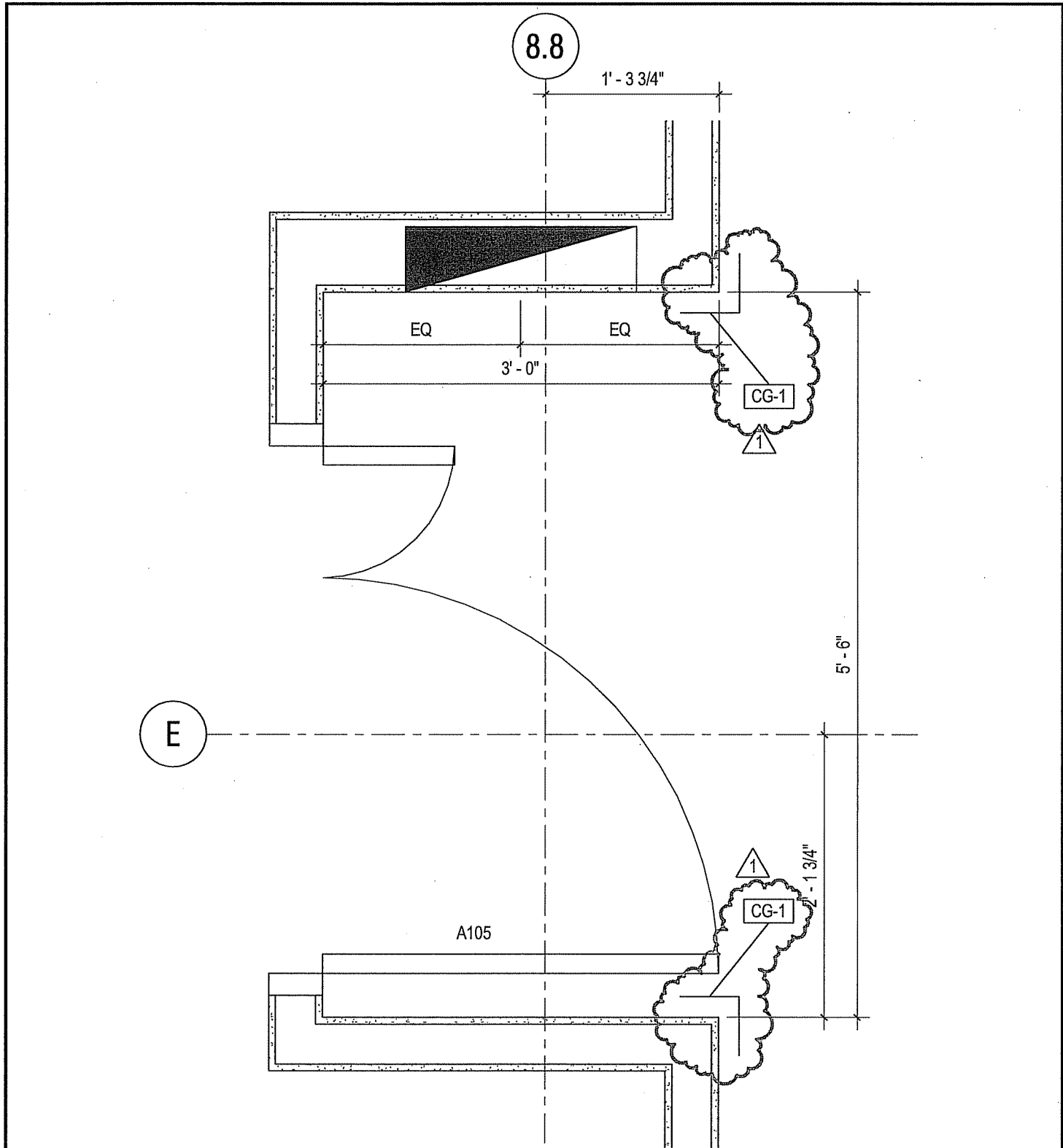
ADDENDUM NO. 2

 Connecticut Department of Construction Services	Sketch Title ENLARGED PLAN - LAB ENTRY 216	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
ASK-A544e	RFI Number	Reference Sheet A-544	
Flad Architects			



ADDENDUM NO. 2

 	Sketch Title	ENLARGED PLAN - LAB ENTRY A106	DCS Project Number: BI - P - 86		Sketch Revised					
	Project Title	Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00							
Flad Architects	Sketch Number	ASK-A544f	RFI Number	-	Reference Sheet	A-544	Revision Number	-	Sketch Issue Date	01/23/13





7

ENLARGED LAB ENTRY 105

1" = 1'-0"

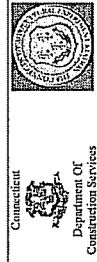
ADDENDUM NO. 2

		Sketch Title	ENLARGED PLAN - LAB ENTRY A105		DCS Project Number:	Sketch Revised
		Project Title	Renovations & Additions to Jenkins-Waggoner Laboratory		BI - P - 86	-
Flad Architects	Sketch Number	ASK-A544g	RFI Number	-	FLAD Project Number:	
	Reference Sheet	A-544	Revision Number	-	Sketch Issue Date	01/23/13

Copy of ARCHITECTURAL DOOR SCHEDULE (FIRST FLOOR - ADDITION)_ADD2

DOOR NUMBER	ROOM		DOOR							FRAME		FIRE RATING	HARDWARE SET NO.	COMMENTS
	ROOM NAME	ROOM NUMBER	TYPE	MAT	WIDTH	HEIGHT	GLASS TYPE	TYPE	MAT.					
A100			-	AL/GL	6'-0"	8'-0"	GL3	-	-	-	4	PART OF EXTERIOR CURTAINWALL SYSTEM; SEE SPEC SECTION 08 44 13		
A101	VESTIBULE	A100	-	AL/GL	6'-0"	8'-0"	GL3	-	-	-	3	PART OF EXTERIOR CURTAINWALL SYSTEM; SEE SPEC SECTION 08 44 13		
A101A	FAMILY TOILET	A101A	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	10			
A101B	WASTE HOLDING	A101B	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	12			
A101C	CORRIDOR	A101C	-	AL/GL	3'-0"	8'-0"	GL3	-	-	-	1	PART OF EXTERIOR CURTAINWALL SYSTEM; SEE SPEC SECTION 08 44 13		
A101E			X	METAL PANEL	4'-0"	8'-0"	-	-	-	-	-	METAL PANEL DOOR REPLACEMENT - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION		
A102	PPE RECEPTION	A102	D3	HM-1	3'-0"	8'-0"	GL3	HM-8	HM-1	-	14			
A103	ENT RECEPTION	A103	D3	HM-1	3'-0"	8'-0"	GL3	HM-9	HM-1	-	14			
A104	PPE OFFICE	A104B	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	6			
A105	ENT PUBLIC INQUIRY LAB	A105	D5	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	-	21			
A105A	ENT OFFICE	A105A	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	6			
A106	PPE PUBLIC INQUIRY LAB	A106	D5	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	-	21			
A106A	PPE PUBLIC INQUIRY LAB	A106	D5	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	-	20			
A107	INSECT COLLECTION	A107	D4	WD	3'-6"	7'-0"	-	HM-1	HM-1	-	8			

ADDENDUM NO. 2



Flad Architects

Sketch Title: **DOOR SCHEDULE (FIRST FLOOR - ADDITION)**
 Project Title: Renovations & Additions to Jenkins-Waggoner Laboratory

DCS Project Number: **BI - P - 86**
 FLAD Project Number: **10844-00**
 Revision Number: .
 Sketch Issue Date: 01/23/13

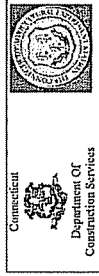
RFI Number: .
 Reference Sheet: A-601

Sketch Number: **ASK-A601b**

Copy of ARCHITECTURAL DOOR SCHEDULE (LOWER LEVEL - EXISTING BUILDING)_ADD2

DOOR NUMBER	ROOM		DOOR				FRAME		FIRE RATING	HARDWARE SET NO.	COMMENTS
	ROOM NAME	ROOM NUMBER	MAT	WIDTH	HEIGHT	GLASS TYPE	TYPE	MAT.			
001A	WATER SERVICE ENTRY	001A	WD	3'-0"	7'-0"	-	HM-1	HM-1	12		
001C	JAN	001C	WD	2'-6"	7'-0"	-	HM-1	HM-1			
002B	MEN/SHWR	002B	WD	3'-0"	6'-8"	-	HM-1	HM-1	10		
002C	WOMEN/SHWR	002C	WD	3'-0"	7'-0"	-	HM-1	HM-1	10		
003	ENT OFFICE	003	WD	3'-0"	7'-0"	-	HM-2	HM-1	6		
004	ENT INVASIVE INSECT	004	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	20		
005	ENT TECHS	005	WD	3'-0"	7'-0"	-	HM-3	HM-1	6		
006	ENT BEE RESEARCH	006	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	20		
006A	ENT BEE RESEARCH	006	WD	3'-0"	7'-0"	-	HM-1	HM-1	9		
007	ENT OFFICE	007	WD	3'-0"	7'-0"	-	HM-2	HM-1	6		
008	AUTOCLAVE	008	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	20		
009	ENT OFFICE	009	WD	3'-0"	7'-0"	-	HM-2	HM-1	6		
010	PPE SOIL-BORNE DISEASE	010	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	20		
011	ENT OFFICE	011	WD	3'-0"	7'-0"	-	HM-2	HM-1	6		
012	PPE DIRT LAB	012	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	20		
012A	PPE DIRT LAB	012	WD	3'-0"	7'-0"	-	HM-1	HM-1	9		
013	COPY	013	-	4'-0"	7'-0"	-	-	-		4'-0" x 7'-0" CASED OPENING	
014	ENT & PPE SHARED SUPPORT	014	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	20		
015	PPE TECHS	015	WD	3'-0"	7'-0"	-	HM-2	HM-1	6		
017	PPE OFFICE	017	WD	3'-0"	7'-0"	-	HM-2	HM-1	6		
019	PPE OFFICE	019	WD	3'-0"	7'-0"	-	HM-2	HM-1	6		
021	PPE STORAGE	021	WD	3'-0"	7'-0"	-	HM-2	HM-1	12		

ADDENDUM NO. 2



Flad Architects

Sketch Title **DOOR SCHEDULE (LOWER LEVEL - EXISTING BUILDING)**
 Project Title Renovations & Additions to Jenkins-Waggoner Laboratory
 Sketch Number **ASK-A601C**
 RFI Number


Reference Sheet
 A-601

DCS Project Number: BI - P - 86
 FLAD Project Number: 10844-00
 Revision Number
 Sketch Issue Date 01/23/13

Copy of ARCHITECTURAL DOOR SCHEDULE (FIRST FLOOR - EXISTING BUILDING)_ADD2

DOOR NUMBER	ROOM		DOOR						FRAME		HARDWARE SET NO.	COMMENTS
	ROOM NAME	ROOM NUMBER	TYPE	MAT.	WIDTH	HEIGHT	GLASS TYPE	TYPE	MAT.	FIRE RATING		
101	PPE SEC.	101	D1	WD	3'-0"	7'-0"	-	HM-2	HM-1	-	6	
101A	PPE SEC.	101	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	6	
102A	IT	102A	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	13	
102B	MEN	102B	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	10	
102C	WOMEN	102C	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	10	
103	PPE DEPT HEAD	103	D1	WD	3'-0"	7'-0"	-	HM-2	HM-1	-	6	
104	PPE-CHESTNUT BLIGHT	104	D5	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	-	20	
105	PPE OFFICE	105	D1	WD	3'-0"	7'-0"	-	HM-2	HM-1	-	6	
106	PPE-DISEASE DIAGNOSTICS	106	D5	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	-	20	
106A	PPE-DISEASE DIAGNOSTICS	106	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	9	
107	PPE OFFICE	107	D1	WD	3'-0"	7'-0"	-	HM-2	HM-1	-	6	
108	PPE READING ROOM	108	D3	WD	3'-0"	7'-0"	GL3	HM-6	HM-1	-	8	
109	PPE TECHS	109	D1	WD	3'-0"	7'-0"	-	HM-2	HM-1	-	6	
110	PPE-EPIDEMIOLOGY	110	D5	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	-	20	
111	CONF.	111	D3	WD	3'-0"	7'-0"	GL3	HM-7	HM-1	-	8	
112	PPE-FOREST PATHOLOGY	112	D5	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	-	20	
112A	PPE-FOREST PATHOLOGY	112	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	9	
113	PPE OFFICE	113	D1	WD	3'-0"	7'-0"	-	HM-2	HM-1	-	6	
114	PPE- FOREST PCR	114	D5	HM-1	4'-0"	7'-0"	-	HM-1	HM-1	-	20	
115	PPE OFFICE	115	D1	WD	3'-0"	7'-0"	-	HM-2	HM-1	-	6	
117	MEDIA RM	117	D1	WD	3'-0"	7'-0"	-	HM-2	HM-1	-	6	
119	PPE BREAK ROOM	119	D3	WD	3'-0"	7'-0"	GL3	HM-5	HM-1	-	11	
121	JAN	121	D1	WD	2'-6"	7'-0"	-	HM-1	HM-1	-	13	
122	MICRO	122	D1	WD	3'-0"	7'-0"	-	HM-1	HM-1	-	7	

ADDENDUM NO. 2



Connecticut
Department of
Construction Services

Sketch Title **DOOR SCHEDULE (FIRST FLOOR - EXISTING BUILDING)**

Project Title Renovations & Additions to Jenkins-Waggoner Laboratory

Sketch Number **ASK-A601d**

DCS Project Number:
BI - P - 86

FLAD Project Number:
10844-00

RFI Number

Reference Sheet
A-601


Revision Number

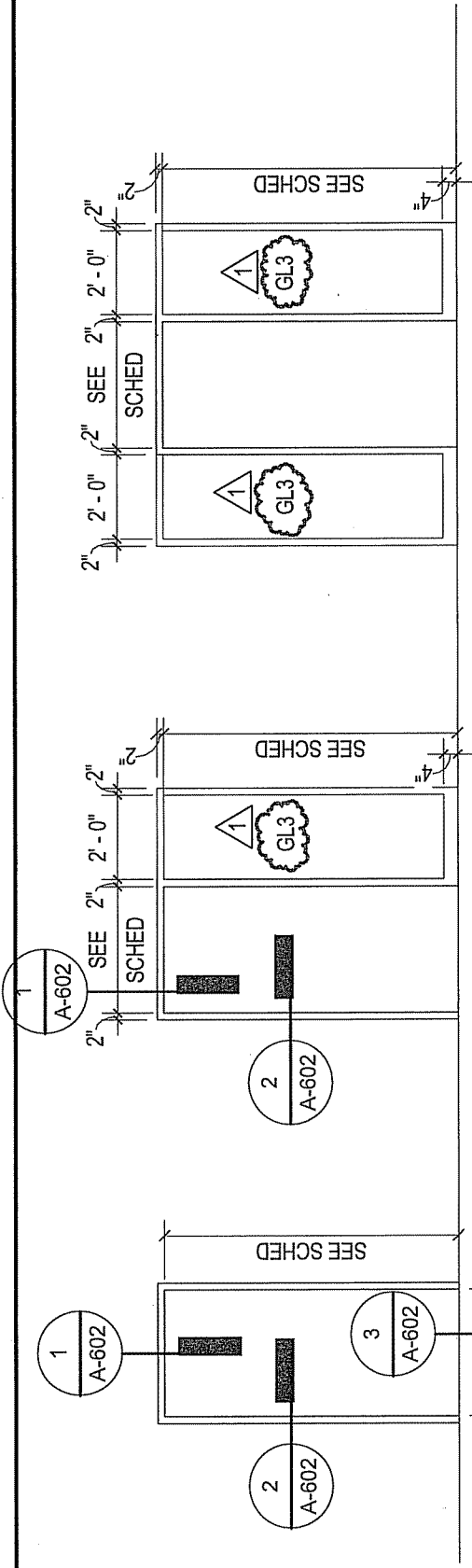
Sketch Issue Date
01/23/13

Copy of ARCHITECTURAL DOOR SCHEDULE (SECOND FLOOR - EXISTING BUILDING)_ADD2

DOOR NUMBER	ROOM NUMBER	ROOM NAME	DOOR						FRAME			HARDWARE SET NO.	COMMENTS
			TYPE	MAT.	WIDTH	HEIGHT	GLASS TYPE	TYPE	MAT.	FIRE RATING			
201	ENT SEC.		D1	WD	3'-0"	7'-0"		HM-2	HM-1		6		
201A	ENT SEC.		D1	WD	3'-0"	7'-0"		HM-1	HM-1		6		
202A	IT		D1	WD	3'-0"	7'-0"		HM-1	HM-1		13		
202B	MEN		D1	WD	3'-0"	7'-0"		HM-1	HM-1		10		
202C	WOMEN		D1	WD	3'-0"	7'-0"		HM-1	HM-1		10		
203	ENT. DEPT HEAD		D1	WD	3'-0"	7'-0"		HM-2	HM-1		6		
204	ENT FOREST PEST & CHEM. ECOLOGY		D5	HM-1	4'-0"	7'-0"		HM-1	HM-1		20		
205	ENT OFFICE		D1	WD	3'-0"	7'-0"		HM-2	HM-1		6		
206	ENT PLANT REGULATORY UNIT		D1	WD	3'-0"	7'-0"		HM-1	HM-1		9		
207	ENT OFFICE		D1	WD	3'-0"	7'-0"		HM-2	HM-1		6		
208	ENT EXPANSION		D5	HM-1	4'-0"	7'-0"		HM-1	HM-1		20		
208A	ENT PLANT REGULATORY UNIT		D5	HM-1	4'-0"	7'-0"		HM-1	HM-1		19		
209	ENT PLANT REG TECHS		D1	WD	3'-0"	7'-0"		HM-3	HM-1		6		
210	ENT READING ROOM		D3	WD	3'-0"	7'-0"	GL3	HM-7	HM-1		8		
211	ENT CONF.		D3	WD	3'-0"	7'-0"	GL3	HM-7	HM-1		8		
213	ENT TECHS		D1	WD	3'-0"	7'-0"		HM-2	HM-1		6		
214	ENT TICK ISOLATION		D5	HM-1	4'-0"	7'-0"		HM-1	HM-1		20		
214A	ENT MICROSCOPE		D1	WD	3'-0"	7'-0"		HM-1	HM-1		7		
214B	ENT TICK PCR		D1	WD	3'-0"	7'-0"		HM-1	HM-1		5		
215	ENT OFFICE		D1	WD	3'-0"	7'-0"		HM-2	HM-1		6		
216	ENT TICK RESEARCH		D5	HM-1	4'-0"	7'-0"		HM-1	HM-1		20		
217	MEDIA RM		D1	WD	3'-0"	7'-0"		HM-2	HM-1		6		
219	ENT BREAK ROOM		D3	WD	3'-0"	7'-0"	GL3	HM-5	HM-1		11		
221	JAN.		D1	WD	2'-6"	7'-0"		HM-1	HM-1		13		

ADDENDUM NO. 2

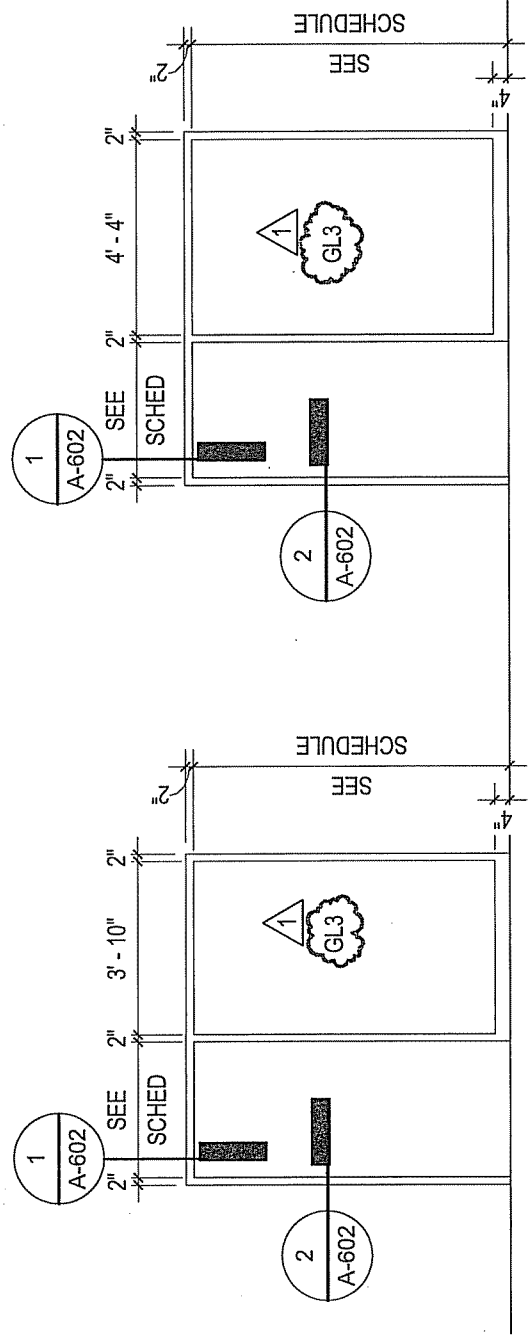
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				A-601		
DCS Project Number: BJ - P - 86		FLAD Project Number: 10844-00		Sketch Revised		



HM-3

HM-2

HM-1 (@ GYP)



HM-6

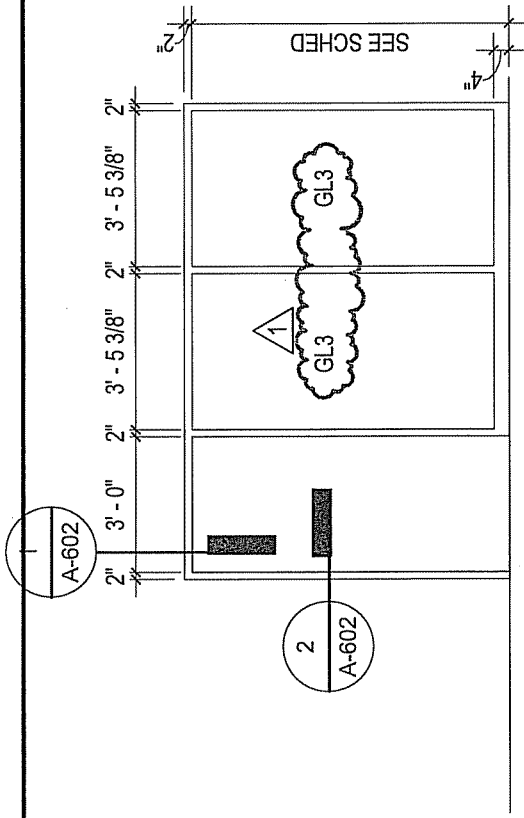
HM-5

ADDENDUM NO. 2

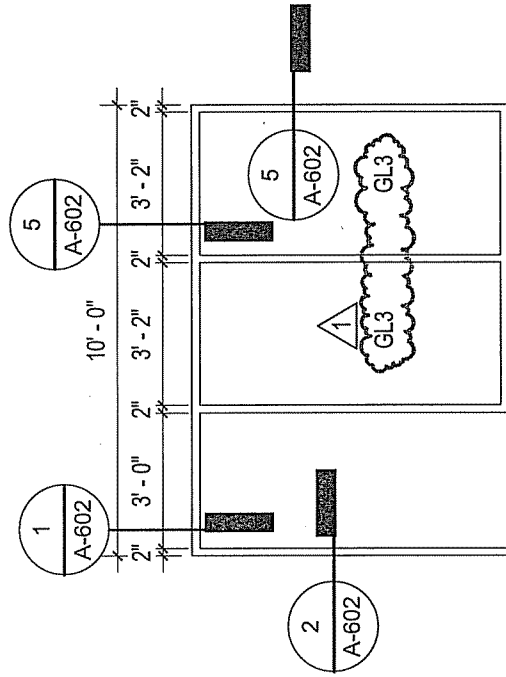
Connecticut Department of Construction Services
Flad Architects

Sketch Title: **PARTIAL - FRAME TYPES**
 Project Title: Renovations & Additions to Jenkins-Waggoner Laboratory
 Sketch Number: **ASK-A602a**
 RFI Number: .
 Reference Sheet: A-602

DCS Project Number: BJ - P - 86	Sketch Revised
FLAD Project Number: 10844-00	Revision Number
	Sketch Issue Date 01/23/13




HM-4

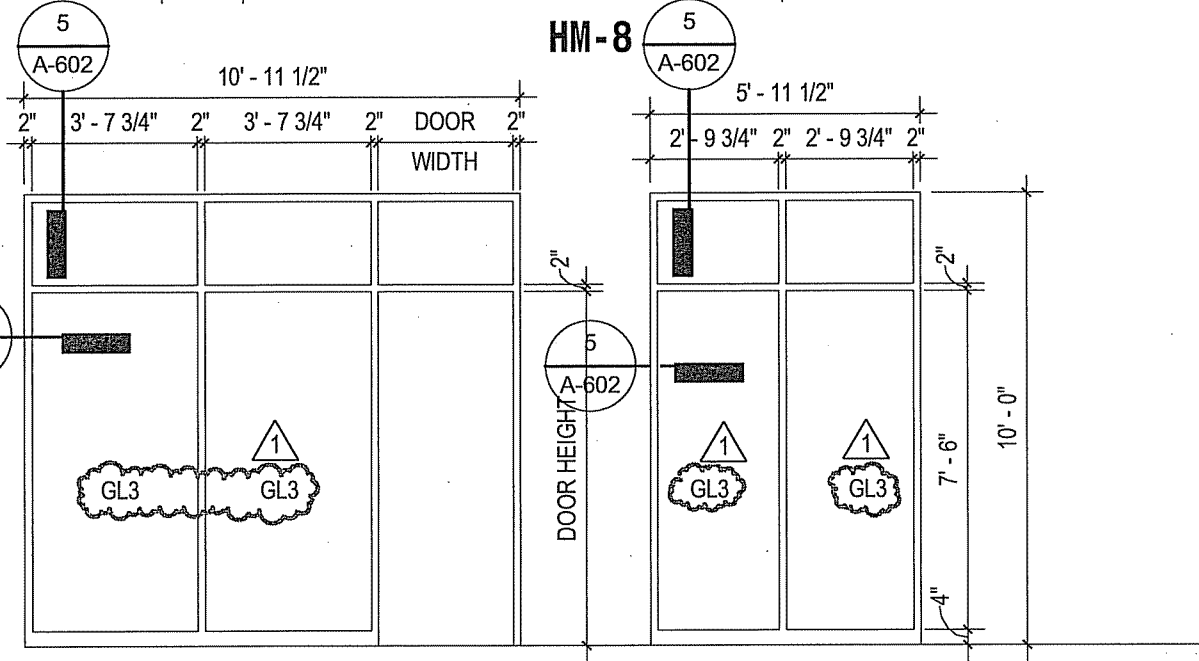
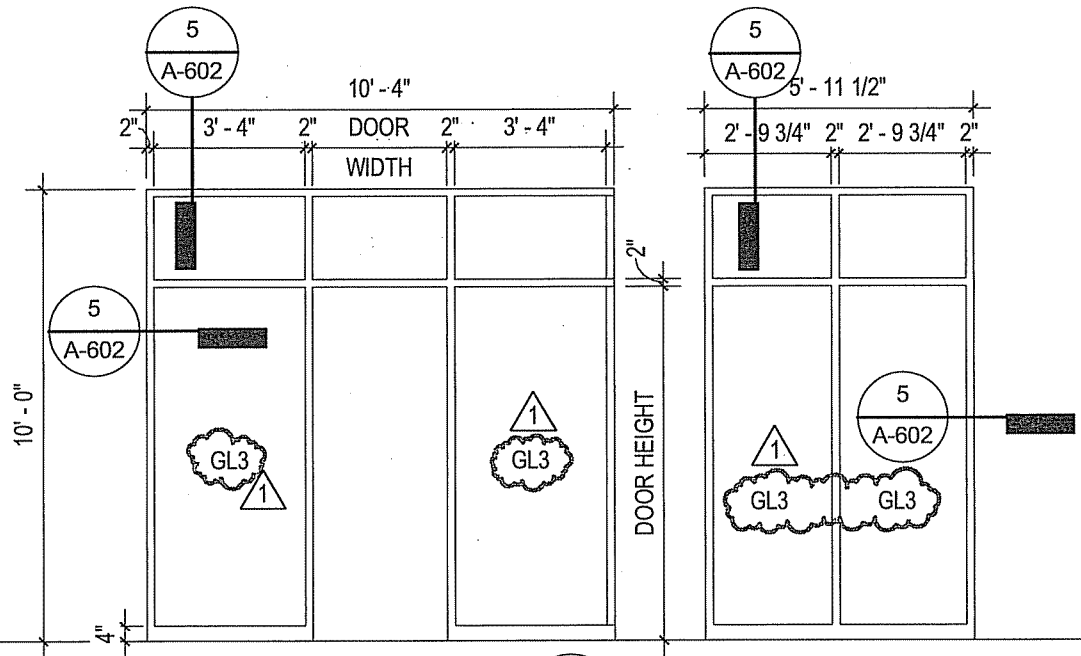


HM-7

ADDENDUM NO. 2

 Connecticut Department of Construction Services	Sketch Title PARTIAL - FRAME TYPES	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A602b	RFI Number	Reference Sheet A-602	Sketch Issue Date 01/23/13

Flad Architects



HM-9

ADDENDUM NO. 2



Sketch Title **PARTIAL - FRAME TYPES**
 Project Title Renovations & Additions to Jenkins-Waggoner Laboratory

DCS Project Number:
BI - P - 86

Sketch Revised

FLAD Project Number:
10844-00

Sketch Number
ASK-A602c

RFI Number

Reference Sheet

Revision Number

Sketch Issue Date

Flad Architects


A-602

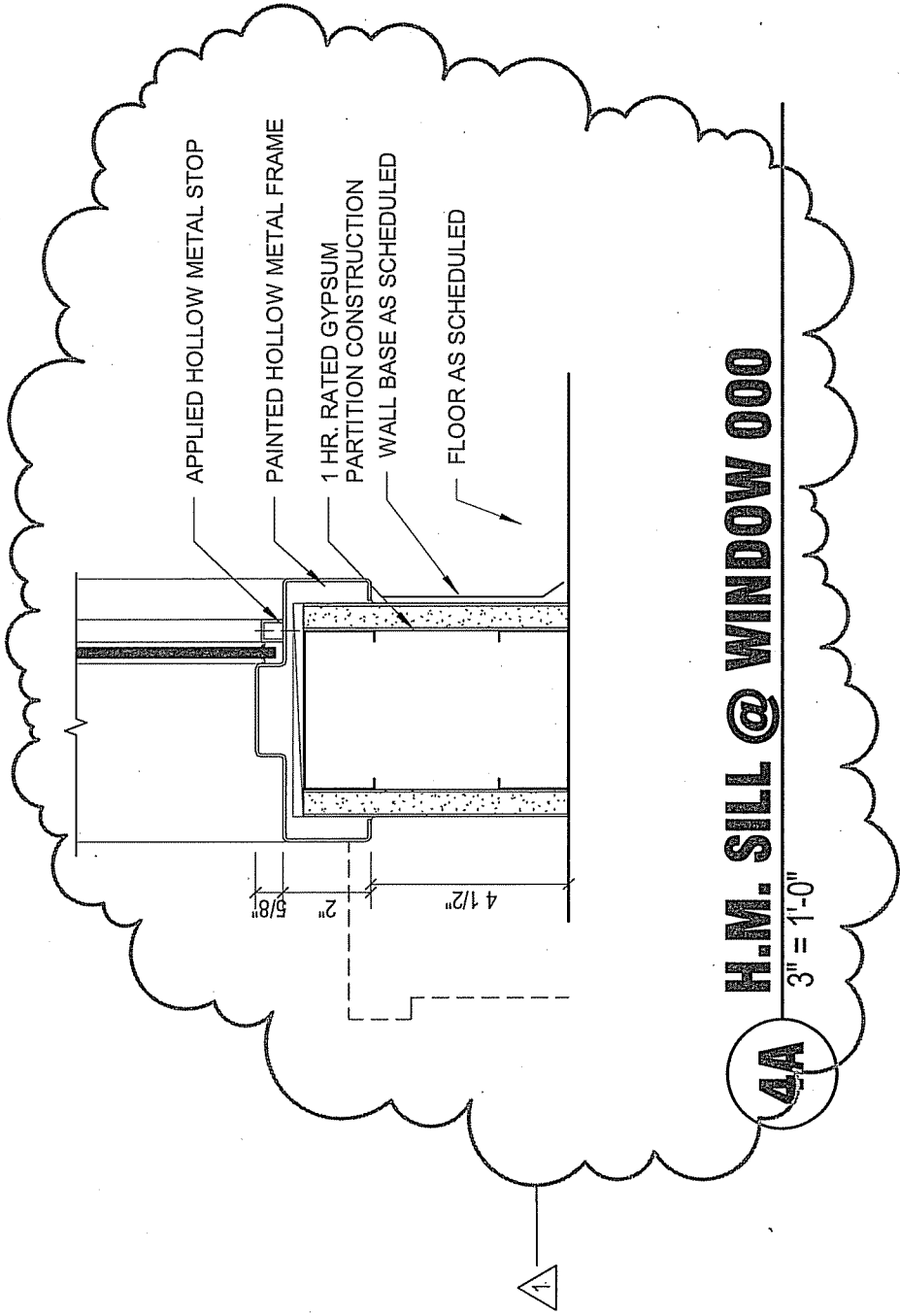
01/23/13

INTERIOR BORROWED LITE SCHEDULE_ADD2

Window Number	Width	Height	Sill Height	Frame Type	Material	Glazing Type	Details			Fire Rating
							Head Detail	Jamb Detail	Sill Detail	
000	3' - 11"	4' - 6 1/2"	-	B	HM	GL4	1/A-605	2/A-605	4A/A-605 1/A-605	1HR
004	8' - 0"	3' - 2"	4'-0"	A	HM	GL3	1/A-605	1/A-605	1/A-605	-
006	8' - 0"	3' - 2"	4'-0"	A	HM	GL3	1/A-605	1/A-605	1/A-605	-
010	8' - 0"	3' - 2"	4'-0"	A	HM	GL3	1/A-605	2/A-605	1/A-605	-
102	3' - 0"	10' - 0"	-	B	HM	GL3	1/A-605	1/A-605	4/A-605	-
103	3' - 0"	10' - 0"	-	B	HM	GL3	1/A-605	1/A-605	4/A-605	-
104	8' - 0"	3' - 2"	4'-0"	A	HM	GL3	1/A-605	2/A-605	1/A-605	-
106	8' - 0"	3' - 2"	4'-0"	A	HM	GL3	1/A-605	2/A-605	1/A-605	-
110	8' - 0"	3' - 2"	4'-0"	A	HM	GL3	1/A-605	2/A-605	1/A-605	-
112	8' - 0"	3' - 2"	4'-0"	A	HM	GL3	1/A-605	2/A-605	1/A-605	-
204	8' - 0"	3' - 2"	4'-0"	A	HM	GL3	1/A-605	1/A-605	1/A-605	-
206	8' - 0"	3' - 2"	4'-0"	A	HM	GL3	1/A-605	1/A-605	1/A-605	-
216	8' - 0"	3' - 2"	4'-0"	A	HM	GL3	1/A-605	2/A-605	1/A-605	-

APPENDUM NO. 2

 Connecticut Department Of Construction Services	ASK-A605a Architects	Sketch Title INTERIOR BORROWED LIGHT SCHEDULE	DCS Project Number: BJ - P - 86	Sketch Revised
		Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Reference Sheet A-605
		Sketch Number ASK-A605a	RFI Number	Revision Number




H.M. SILL @ WINDOW 000

3" = 1'-0"


4A

ADDENDUM NO. 2

 Connecticut Department Of Construction Services	Sketch Title HM SILL @ WINDOW 000	DCS Project Number: BJ - P - 86	Sketch Revised
	Project Title Renovations & Additions to Jenkins-Waggoner Laboratory	FLAD Project Number: 10844-00	Revision Number
Sketch Number ASK-A605b	RFI Number	Reference Sheet A-605	Sketch Issue Date 01/23/13

**FULL DEPTH BIT. CONC. PAVEMENT
REPLACEMENT TO MATCH NEW BIT.
CONC. PAVEMENT**



 benesch engineers · scientists · planners	Sketch Title Full Depth Pavement Replacement RENOVATIONS and ADDITIONS to JENKINS-WAGGONER LABORATORY	Sketch Revised 01/15/213
	Project Title RFI Number APPENDUM #2	DCS Project Number: BI - P - 86 ABC Project Number: 07011332
Sketch Number C-001	Reference Sheet CD-101	Revision Number 1
Sketch Issue Date 22 January, 2013		

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Contract Documents and general provisions of the Contract, including General and Supplementary Conditions, other Division 01 Specification Sections, and Section 00 41 00 "Bid Proposal Form" apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
1. Allowances.
 2. Unit Prices.
- B. **Related Sections:** The following Sections contain requirements that relate to this Section:
1. Division 01 Section 01 23 13 "Supplemental Bids".
 2. Division 01 Section 01 26 00 "Contract Modification Procedures".
 3. Division 01 Section 01 29 76 "Progress Payment Procedures".
 4. Division 01 Section 01 77 00 "Closeout Procedures".

1.3 ALLOWANCES

- A. This Section includes administrative and procedural requirements for Allowances.
- B. **Related Sections:** The following Sections contain requirements that relate to this Section:
1. Division 01 Section 01 26 00 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
- C. **Cash Allowances:**
1. The Contractor's costs for unloading and handling, labor, installation costs, storage, insurance, overhead and profit and other expense related to the Allowance item shall be included in the Lump Sum Bid Amount and not in the Allowance unless stated otherwise in the Allowance Schedule of this section.
 2. **Architect/Engineer:**
 - a. Consult with Contractor for consideration of Products, suppliers and installers.
 - b. Select Products in consultation with the Project Manager and Agency Representatives and transmit decision to Construction Administrator.
 - c. Prepare Change Order.
 3. **Construction Administrator Responsibilities:**
 - a. Consult with Architect/Engineer, Contractor, Project Manager and Agency Representatives for consideration of Products, suppliers and installers.
 - b. Select Products in consultation with Architect/Engineer, Project Manager and Agency Representatives and transmit decision to Contractor
 - c. Prepare Change Order.
 4. **Contractor Responsibilities:**
 - a. Assist Architect/Engineer and Construction Administrator in selection of Products and Suppliers.
 - b. Obtain proposals from Suppliers and offer recommendations.
 - c. On notification of selection by Construction Administrator execute purchase agreement with designated supplier.
 - d. Arrange for and process shop drawings, product data, and samples. Arrange for delivery.
 - e. If the actual cost of an Allowance item is more or less than the given amount, the Contract Sum will be adjusted by Change Order.
 5. **Allowance Schedule:**

- a. Allowance No. 1: Include a Stipulated sum for the replacement of 1,500 square feet of structural slab as specified in Section 05 12 00 "Structural Steel Framing" and Section 03 30 00 "Cast-In-Place Concrete. Refer to unit prices listed in Article 1.5.D.B of this Section.
- b. Allowance No. 2: Include a Stipulated sum for the excavation of 200 cubic yards of Trench Rock (explosives prohibited) as specified in Section 31 21 00 "Earthwork". Refer to unit prices listed in Article 1.5.C.4 of this Section.
- c. Allowance No. 3: Include a Stipulated sum for the excavation of 100 cubic yards of Trench Rock, 0'-10' Deep (with explosives) as specified in Section 31 21 00 "Earthwork". Refer to unit prices listed in 1.5.C.4 of this Section.
- d. Allowance No. 4: Include a Stipulated sum for 250 cubic yards of Granular Fill furnished and placed as specified in Section 31 21 00 "Earthwork". Refer to unit prices listed in Article 1.5.D.B of this Section.
- e. Allowance No. 5: Include a Stipulated sum for furnishing, installing, wiring (with 50 lin.ft. of approved wiring and conduit) terminating, and programming the following items as specified in Section 28 31 11 "Digital, Addressable Fire-Alarm System". If units are not utilized before substantial completion of Project, turn units over to Owner
 - i. Smoke Detector with Base: 3 units.
 - ii. Combination Audio/Visual Notification Appliance: 5 units.
 - iii. Visual Notification Appliance: 5 units.
 - iv. Manual Fire Alarm Box: 2 units.
 - v. Addressable Interface Devices: 5 units.
 - vi. Speaker: 5 units.

1.4 UNIT PRICES - GENERAL

- A. This Section includes administrative and procedural requirements for unit prices.
- B. **Related Sections:** The following Sections contain requirements that relate to this Section:
 1. Division 01 Section 01 26 00 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
 2. Division 01 Section 01 29 76 "Progress Payment Procedures" for procedures for submitting Application for Payments.
- C. **Definitions:**
 1. **Unit Price:** Amount the General Contractor acknowledges in the Bid Proposal Form as a price per unit of measurement for materials or services as described in the Bidding Documents or in the Contract Documents.
- D. **Procedures:**
 1. Unit Prices included in the Contract Documents are to be used for determining compensation to the Contractor or Owner for changes to the scope of the work indicated in the Contract Documents, and included in the Lump Sum Contract Price. Special Unit Prices are for items complete, in place, and shall be inclusive of furnishing and installing of all material, labor, trucking, overhead, profit, equipment, hoisting, engineering, scaffolding, power hookups, protection, shop drawings, taxes, permits, appliances, delivery, insurance, supervision, cost of bond, etc. and shall remain in effect until completion of the Contract.
 2. **Unit Price:** Is identified by the Owner as a price per unit of measurement for materials or services added to or deducted from the Contract Sum by appropriate modification, if the estimated quantities of Work required by the Contract Documents are increased or decreased.
 - a. Should the amount of the Work required be increased or decreased because of changes in the work ordered in writing by the Project Manager, the Contractor agrees that the following supplemental UNIT PRICES will be decreased 10% for a reduction of work. Each Unit Price shall include all equipment, tools, labor, permits, fees, etc., incidental to the completion of the work involved. All items marked with an asterisk (*) in the unit price schedules shall include the completion of the excavation, formation and compaction of sub-grade and the disposal of surplus or unsuitable materials in accordance with the Plans and Specifications or as directed by the Construction Administrator.

3. The Owner reserves the right to reject the Contractor's measurement of work-in-place that involves use of established unit prices, and to have this work measured, at the Owner's expense, by an independent surveyor acceptable to the Contractor.
4. **Defect Assessment:** Replace the Work, or portions of the Work, not conforming to the specified requirements. If, in the opinion of the Architect/Engineer, it is not practical to remove and replace the work the Architect/Engineer will direct an appropriate remedy or adjust the payment.
5. **Unit Price Schedule:** A "Unit Price Schedule" is included at the end of this Section. Specification Sections referenced in the Schedule contain requirements for materials described under each unit price.

1.5 UNIT PRICE SCHEDULES

A. Unit Price Schedule - Earth and Rock Excavation: This Section includes administrative and procedural requirements for the following unit prices and provisions are to be included in and become part of this Contract to be used in evaluating additions to or deductions from the work called for in the specifications and/or plans.

1. Unless otherwise specified elsewhere in these documents, Contractors are to assume that all excavation is earth; however, if unspecified rock is encountered, it will be paid for at the given unit prices listed in Paragraph "C". Rock prices are net in that allowances for reduced quantities of earth are also included in the unit prices. The prices given include all costs for overhead, profit and rock surveys.
2. Wherever rock to be excavated is encountered, the Contractor shall strip or expose the rock to such an extent that in the Owner's opinion the necessary measurements can be taken. The Contractor shall provide the Owner with a survey by a licensed land surveyor indicating top of rock elevations at points of intersection on a rectilinear grid with lines spaced sufficiently close to show accurately the rock surface contours. At the Owner's option, an additional survey may be furnished by the Owner from a licensed surveyor.
3. If the conditions of the excavation work indicated are clearly of a special nature, the Contractor may ask the Owner for reconsideration of the established unit prices and if granted, the unit prices will not apply, and prices will be negotiated in accordance with Article 13 of the General Conditions.

B. Definitions:

1. "EARTH" - is defined as excavation shall include removal of all materials other than 'water' and 'rock'.
2. "ROCK" - is defined as a boulder of one cubic yard or more in volume (1/2 cubic yard for a boulder in trenches), and rock in definite ledge formation and masonry structures of one cubic yard or more in volume, the removal of which requires the use of mechanical equipment or the use of explosives. Rock removed by scarification or ripping method is considered as a separate classification under Paragraph 4.c.(1).
3. "ORIGINAL GRADE" - is defined as being the grade which exists at the time of Contract Award.
4. "ROUGH GRADE" - is defined as being the completed surface of required excavations greater than 13' in width.
5. "MASS" - excavation is to be considered as an open area whose minimum horizontal dimensions exceed 13'.
6. "TRENCH" - is defined as excavation is defined as the removal of material from areas 13 feet or less in its minimal horizontal dimensions and below the elevation of rough grade or original grade, whichever is lower.

C. Procedures:

1. **Rock Excavation in Trenches: Basis for Horizontal Measurement:**
 - a. **Horizontal Measurements:** Will be taken between the vertical planes as defined below.
 - b. **The Minimum Width of Trenches in Rock:** Will be taken as 3' 0".
 - c. **Excavation For Walls Or Piers With Footings:** The measurements will be taken parallel to and one foot outside of the edges of the concrete footings as called for in the plans (i.e. for 4' 0" footing, rock will be taken as 6' 0" in width).
 - d. **Excavation For Walls Or Piers Without Footings:** The limits of the excavation will be 1' 6" outside of the line of concrete at bottom as shown or called for in the plans (i.e. for a wall with a bottom thickness of 1' 0", the width of the trench will be considered to be 4' 0"). (Caissons are excluded from these measurements).

- e. **Excavation for Pipe Lines:** Will be measured at 2' 0" more than the nominal inside diameter of the pipe but in no case less than 3' 0" wide.
 - f. **Excavation For Tanks, Vaults, Manholes, Pits, Etc.:** Will be measured as 2' 0" greater in both length and width or diameter than the actual exterior dimensions of the structures and this excavation is considered to be trench only if any measured horizontal dimensions is 13' or less.
 - g. No allowance will be made for rock removed beyond the above limits.
2. **Rock Excavation in Trenches - Basis for Vertical Measurement:**
- a. To determine depth of trench, vertical measurements will be taken from original grade or rough grade, (whichever is applicable), to the bottom of required excavation. These measurements will define the maximum depths for payments.
 - b. To determine quantity of rock in trench, vertical measurements will be taken from the top of rock as encountered in the trench to 12" below the bottom of required rock excavation. Any over excavation below the required elevation shall be filled with concrete or other material as specified at no cost to the Owner.
 - c. No allowance will be made for rock removed beyond the above limits.
3. **Earth Excavation in Trenches - Basis of Measurement: (Horizontal & Vertical):** The basis of measurements and allowance limit for earth excavation in trenches is identical to that indicated for rock excavation in trenches, except that there will be no allowance for 12" below the required elevation. In addition the following will prevail:
- a. **Maximum allowable widths for earth excavation in trenches without shoring:**

Trench Depth - Classification	Add To Nominal ID Of Pipe Or To Footing Width
0 ft. - 6 ft.	3 ft.
Over 6 ft. - 10 ft.	5 ft.
Over 10 ft. - 15 ft.	7 ft.
Below 15 ft. deep the width of the trench shall be based on the individual case. The final depth of trench will determine the actual width for payment.	

- b. If shoring is required the measurement shall be taken between the exterior walls of the shoring not to exceed 4' plus the I.D. of the pipe (for all depths).
 - c. To determine quantity of earth in trench, vertical measurements will be taken from the original or rough grade to actual bottom of earth excavation required.
4. **Unit Prices - Earth and Rock Excavation (Basis for Payment):** Prices include backfill with excavated material if it is suitable. Prices also include all excavation and disposal of all surplus or unsuitable material. Where replacement with the excavated material is prohibited or a particular backfill material is specified, the cost of the delivered replacement material in a volume equal to the above excavation pay limits minus the volume of the items installed in the trench shall be paid for a prior negotiated price. Prices do not include costs of shoring and de-watering but do include sloping for sides of excavation. Payment and credit amounts shall be determined in the following manner: Widths and depths of trench excavation as indicated. The total quantity of earth or rock excavation encountered in each depth payment category shall be paid for at its respective unit price as shown below. For example, in a 15' trench the first 6' will be paid for at the 0' - 6' price; the next 4' will be paid for at the over 6' - 10' price and the next 5' will be paid for at the over 10' - 15' price. Thus three different price brackets will prevail.

a.	EARTH EXCAVATION - HAND		UNIT	\$ ADD	\$ DEDUCT
(1)	In Trenches - 0' - 6'		C.Y.	36.00	28.80
(2)	In Trenches Below 6' Deep,		Prices Must Be Negotiated Before Work Is Started.		
b.	EARTH EXCAVATION - MACHINE		UNIT	\$ ADD	\$ DEDUCT
(1)	Open Area	All Depths	C.Y.	18.81	15.05
(2)	In trenches	0' - 4' deep	C.Y.	14.27	11.40
	Over	0' - 10' deep	C.Y.	19.71	15.75
	Over	0' - 15' deep	C.Y.	35.00	28.00
	Over	0 - 20' deep	C.Y.	75.00	60.00
c.	ROCK EXCAVATION		UNIT	\$ ADD	\$ DEDUCT
(1)	Open Areas, Rock Removed By Ripping (Any Amount),				

		Net Rock	C.Y.	103.50	82.80
(2)		Open Areas, With Explosives -			
		Net Rock -			
		Total Quantity Up To 100	C.Y.	126.00	100.80
		Total Quantity Up To 1,000	C.Y.	60.00	48.00
		Total Quantity Up To 1,000 or more	C.Y.	28.00	22.40
(3)		In Trenches, Boulders, Remove By Machine	C.Y.	45.00	36.00
(4)		In Trenches, Ripping Of Rock By Machine	C.Y.	105.00	84.00
(5)		In trenches, with explosives			
		Net Rock 0' - 4' Deep	C.Y.	95.60	76.50
(6)		In trenches, with explosives			
		Net Rock 0' - 10' Deep	C.Y.	125.00	100.00
c.		ROCK EXCAVATION (cont.)	UNIT	\$ ADD	\$ DEDUCT
(7)		In trenches, with explosives			
		Net Rock 0 - 15' Deep	C.Y.	150.00	120.00
(8)		In trenches, with explosives			
		Net Rock Over 15' - 10' Deep	C.Y.	200.00	160.00
(9)		In trenches, with explosives -			
		Net Rock 0 - 20' Deep,	Prices Must Be Negotiated Before Start Of Work.		
(10)		Jack Holes (For Hydraulic Lift/Elevators)	L.F.	95.00	76.00
(11)		Open Or Mass Areas - If Explosives Are Prohibited			
		Net Rock	C.Y.	125.00	100.00
(12)		Trench Excavation - If Explosives Are Prohibited			
		Net Rock/With Rock Splitters And Jack Hammer or Hoe Ram	C.Y.	150.00	120.00

D. Unit Price Schedule - Miscellaneous:

A. Related Documents: Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

B. Unit Price Schedule - Miscellaneous:

1.	MISCELLANEOUS Items	UNIT	\$ ADD	\$ DEDUCT
a.	Compacted granular fill - furnished and placed	C.Y.	25.00	20.00
b.	¾" crushed stone - furnished and placed	TON	20.00	N/A
c.	Un-reinforced concrete (3000 psi) - formed and placed	C.Y.	175.00	N/A
d.	Replacement of existing structural slab per detail "9/S-404"	SF	24.00 (Basis of 9 ft. by 9 ft.)	N/A
e.	Replacement of existing brick	SF	75.00	
f.	Repointing existing brick	SF	10.00	

2. Unit Prices shall be negotiated if there is a change in scope of work.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01 20 00

SECTION 07 16 16
CRYSTALLINE WATERPROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Crystalline waterproofing for negative-side application to concrete elevator pit walls and slab.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated. Include material descriptions and installation instructions for crystalline waterproofing.
- B. Qualification Data: For Applicator.
- C. Product Certificates: For waterproofing, patching, and plugging materials, from manufacturer.
- D. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for crystalline waterproofing.
- E. Field quality-control reports.

1.3 QUALITY ASSURANCE

- A. Applicator Qualifications: A firm experienced in applying crystalline waterproofing similar in material, design, and extent to that indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.
- B. Preinstallation Conference: Conduct conference at Project site.

1.4 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with application only when existing and forecasted weather conditions permit crystalline waterproofing to be performed according to manufacturer's written instructions.
- B. Proceed with waterproofing work only after pipe sleeves, vents, curbs, inserts, drains, and other projections through the substrate to be waterproofed have been completed. Proceed only after substrate defects, including honeycombs, voids, and cracks, have been repaired to provide a sound substrate free of forming materials, including reveal inserts.

- C. Ambient Conditions: Proceed with waterproofing work only if temperature is maintained at 40 deg F or above during work and cure period, and space is well ventilated and kept free of water.

PART 2 - PRODUCTS

2.1 WATERPROOFING MATERIALS

- A. Crystalline Waterproofing: Prepackaged, gray-colored proprietary blend of portland cement, specially treated sand, and active chemicals that, when mixed with water and applied, penetrates into concrete and concrete unit masonry and reacts chemically with the byproducts of cement hydration in the presence of water to develop crystalline growth within substrate capillaries to produce an impervious, dense, waterproof substrate; that has VOC content complying with limits of authorities having jurisdiction; with properties meeting or exceeding the criteria specified below.
1. Products: Subject to compliance with requirements, provide one of the following:
 - a. American PERMAQUIK Inc.; Super 200.
 - b. Anti-Hydro International, Inc.; A-H Hydrocap.
 - c. AQUAFIN, Inc.; AQUAFIN-1C.
 - d. BASF Building Systems; Tegraproof.
 - e. Conproco Corporation; Conpro Super Seal.
 - f. ICS Penetron International Ltd.; Penetron.
 - g. International Chem-Crete, Inc.; Chem-Cretex Cem 600.
 - h. IPA Systems, Inc.; Drycon.
 - i. Kryton Group of Companies (The); Krystol T1 & T2 Waterproofing System.
 - j. Vandex USA LLC; Vandex Super/Super White.
 - k. Xypex Chemical Corporation; Xypex.
 2. Water Permeability: Maximum zero for water at 30 feet when tested according to CE CRD-C 48.
 3. Compressive Strength: Minimum 4000 psi at 28 days when tested according to ASTM C 109/C 109M.

2.2 ACCESSORY MATERIALS

- A. Patching Compound: Factory-premixed cementitious repair mortar, crack filler, or sealant recommended by waterproofing manufacturer for filling and patching tie holes, honeycombs, reveals, and other imperfections; compatible with substrate and other materials indicated; and VOC content complying with limits of authorities having jurisdiction.
- B. Plugging Compound: Factory-premixed cementitious compound with hydrophobic properties and recommended by waterproofing manufacturer; resistant to water and moisture but vapor permeable for all standard applications (vertical, overhead, and horizontal surfaces not exposed to vehicular traffic); compatible with substrate and other materials indicated; and VOC content complying with limits of authorities having jurisdiction.
- C. Portland Cement: ASTM C 150, Type I.
- D. Sand: ASTM C 144.

- E. Polymer Admixture for Protective Topping: Polymer bonding agent and admixture designed to improve adhesion to prepared substrates and not to create a vapor barrier.
- F. Water: Potable.

2.3 MIXES

- A. Crystalline Waterproofing: Add prepackaged dry ingredients to water according to manufacturer's written instructions. Mix together with mechanical mixer or by hand to required consistency.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Applicator present, for suitable conditions where waterproofing is to be applied.
- B. Proceed with application only after unsatisfactory conditions have been corrected.
- C. Notify Architect in writing of active leaks or defects that would affect system performance.

3.2 PREPARATION

- A. Protect other work from damage caused by cleaning, preparation, and application of waterproofing. Provide temporary enclosure to ensure adequate ambient temperatures and ventilation conditions for application.
- B. Do not allow waterproofing, patching, and plugging materials to enter reveals or annular spaces intended for resilient sealants or gaskets, such as joint spaces between pipes and pipe sleeves.
- C. Stop active water leaks with plugging compound according to waterproofing manufacturer's written instructions.
- D. Repair damaged or unsatisfactory substrate with patching compound according to manufacturer's written instructions.
 - 1. At holes and cracks in substrate, remove loosened chips and cut reveal with sides perpendicular to surface, not tapered, and approximately 1 inch deep. Fill reveal with patching compound flush with surface.
- E. Surface Preparation: Comply with waterproofing manufacturer's written instructions to remove efflorescence, chalk, dust, dirt, mortar spatter, grease, oils, paint, curing compounds, and form-release agents to ensure that waterproofing bonds to surfaces.
 - 1. Clean concrete surfaces according to ASTM D 4258.
 - a. Prepare concrete by mechanical abrading or abrasive-blast cleaning according to ASTM D 4259.

3.3 APPLICATION

- A. General: Comply with waterproofing manufacturer's written instructions for application and curing.
 - 1. Saturate surface with water for several hours prior to application and maintain damp condition until applying waterproofing. Remove standing water.
 - 2. Apply waterproofing to surfaces indicated on Drawings.
 - 3. Number of Coats: Two.
 - 4. Application Method: Brush. Apply to ensure that each coat fills voids and is in full contact with substrate or previous coat.
 - 5. Dampen surface between coats.

- B. Final Coat Finish: Brushed.

- C. Curing: Moist-cure waterproofing for three days immediately after final coat has set, followed by air drying, unless otherwise recommended in writing by manufacturer.

END OF SECTION

VOLUME 1 of 2

DIVISION 00		PROCUREMENT AND CONTRACTING REQUIREMENTS	
Section No.	Title	Page Count	
00 01 01	Project Title Page	1	
00 01 07	Seals Page	1	
00 01 10	Table of Contents	8	
00 01 15	List of Drawing Sheets	4	
00 11 16	Invitation to Bid - (Major & Minor Capital Projects Greater Than \$500,000)	5	
00 21 19	Notice To Bidders - (Major & Minor Capital Projects Greater Than \$500,000)	9	
00 30 00	Available Information	-	
00 31 19.26	Existing Condition Information	1	
00 31 26.23	General – Survey for Asbestos Containing Material and Lead Based Paint	34	
00 31 32.13	Geotechnical Data	53	
00 31 33.11	Elevator Agreement	2	
00 40 14	Certificate (of Authority) - (Required to be Submitted with Bid Proposal Form)	1	
00 40 15	Department of Administrative Services (DAS) Pre-qualification Forms	4	
00 41 00	Bid Proposal Form - (Major & Minor Capital Projects Greater Than \$500,000)	10	
00 43 16	Standard Bid Bond Form - (Required to be Submitted with Bid Proposal Form)	1	
00 43 24	Special Unit Prices - (Not Used)	0	
00 45 14	General Contractor Bidder's Qualification Statement - (Required to be Submitted with Bid Proposal Form)	4	
00 45 15	Objective Criteria for Evaluating Qualifications of Bidders	2	
00 45 17	Named Subcontractor Bidder's Qualification Statement	4	
00 52 03	Contract	2	
00 52 73	Subcontract Agreement Form	3	
00 62 16	Certificate of Insurance	1	
00 62 16.1	Asbestos Attachment to Acord Form	1	
00 72 13	General Conditions of the Contract for Construction - For Design-Bid-Build	25	
00 72 13.1	Supplementary Conditions	1	
00 73 27	Set-Aside Contractor Schedule	1	
00 73 38	Commission on Human Rights & Opportunities (CHRO) Contract Compliance Regulations	8	
00 73 44	Prevailing Wage Rates/Contractor's Wage Certification/Payroll Certification	24	
00 73 53	Affidavit For Certification Of Subcontractors As Minority Business Enterprises (MBE)	1	
00 73 63	Security Requirements	2	
00 92 00	Amendments (No. 1-A, 2) - (Major & Minor Capital Projects Greater Than \$500,000)	2	
00 92 10	Additional Forms To be Submitted After Bond Commission Funding Approval	8	
00 92 20	Executive Orders	-	

**SECTION 00 01 10
TABLE OF CONTENTS
PROJECT MANUAL**

(Major Capital Projects Greater Than \$5,000,000)

Page 2 of 8

DIVISION 01		GENERAL REQUIREMENTS	
Section No.	Title	Page Count	
01 11 00	Summary of Work	5	
01 20 00	Contract Considerations (replaced Addendum 2)	5	
01 23 13	Supplemental Bids	2	
01 25 00	Substitution Procedures	4	
01 26 00	Contract Modification Procedures	3	
01 29 76	Progress Payment Procedures	5	
01 31 00	Project Management and Coordination	5	
01 31 19	Project Meetings	4	
01 32 16	Construction Progress Schedules	2	
01 32 33	Photographic Documentation	2	
01 33 00	Submittal Procedures	8	
01 35 16	Alteration Project Procedures	3	
01 35 26	Government Safety Requirements	13	
01 42 20	Reference Standards and Procedures	3	
01 45 00	Quality Control	5	
01 45 23.13	Testing for Indoor Air Quality, Baseline IAQ, and Materials	4	
01 50 00	Temporary Facilities & Controls	12	
01 56 39	Temporary Tree and Plant Protection	5	
01 57 30	Indoor Environmental Control	3	
01 57 40	Construction Indoor Air Quality Management Plan	2	
01 60 00	Product Requirements	3	
01 71 23	Field Engineering	2	
01 73 29	Cutting and Patching	4	
01 74 19	Construction Waste Management & Disposal	5	
01 75 00	Starting and Adjusting	2	
01 77 00	Closeout Procedures	5	
01 78 23	Operation & Maintenance Data	6	
01 78 30	Warranties and Bonds	3	
01 81 13	Sustainable Design Requirements	5	
	LEED Project Checklist	1	
01 91 00	Commissioning	6	

**SECTION 00 01 10
TABLE OF CONTENTS
PROJECT MANUAL**

(Major Capital Projects Greater Than \$5,000,000)

Page 3 of 8

TECHNICAL SPECIFICATIONS

DIVISION 02	EXISTING CONDITIONS (Not Used)
--------------------	---------------------------------------

Section No.	Title	Page Count
-------------	-------	------------

DIVISION 03	CONCRETE
--------------------	-----------------

Section No.	Title	Page Count
03 30 00	Cast-In-Place Concrete	24
03 33 00	Architectural Concrete	5
03 54 13	Portland Cement-Based Lightweight Fill (Addendum No. 1)	4

DIVISION 04	MASONRY
--------------------	----------------

Section No.	Title	Page Count
04 01 20	Brick Restoration	8
04 01 40	Limestone Restoration	7
04 21 13	Brick Masonry	12
04 22 00	Concrete Unit Masonry (Addendum No. 1)	9

DIVISION 05	METALS
--------------------	---------------

Section No.	Title	Page Count
05 12 00	Structural Steel Framing	13
05 31 00	Steel Decking	7
05 40 00	Cold-Formed Metal Framing	8
05 50 00	Metal Fabrications	5
05 51 13	Metal Pan Stairs	8
05 73 26	Glass and Metal Railings (deleted Addendum 2)	6

DIVISION 06	WOOD, PLASTICS AND COMPOSITES
--------------------	--------------------------------------

Section No.	Title	Page Count
06 10 00	Rough Carpentry	4
06 16 36	Plywood Sheathing	3
06 16 43	Exterior Gypsum Sheathing	3
06 20 23	Interior Finish Carpentry	4
06 41 16	Plastic Laminate Casework	7
06 45 20	Exterior Finish Carpentry	9

DIVISION 07	THERMAL AND MOISTURE PROTECTION
--------------------	--

Section No.	Title	Page Count
07 05 53	Fire and Smoke Assembly Identification	2
07 13 26	Self-Adhering Sheet Waterproofing	6
07 14 00	Liquid Membrane Waterproofing	7
07 16 16	Crystalline Waterproofing (new section Addendum 2)	4
07 18 13	Pedestrian Traffic Coatings	5
07 21 00	Thermal Insulation	5

**SECTION 00 01 10
TABLE OF CONTENTS
PROJECT MANUAL**

(Major Capital Projects Greater Than \$5,000,000)

Page 4 of 8

07 22 00	Roofing and Deck Insulation	7
07 27 26	Fluid-Applied Membrane Air Barriers	6
07 41 13	Standing Seam Metal Roofs	10
07 42 13	Metal Wall Panels	10
07 42 13.19	Insulated-Core Metal Wall Panels	7
07 42 43	Aluminum-Faced Composite Wall Panels	9
07 53 23	Elastomeric Membrane Roofing	9
07 53 26	EPDM Roofing	11
07 62 00	Sheet Metal Flashing and Trim	6
07 71 23	Copings	5
07 71 29	Manufactured Roof Expansion Joints	4
07 72 33	Roof Hatches	5
07 81 16	Cementitious Fireproofing	6
07 81 23	Intumescent Mastic Fireproofing	6
07 84 13	Penetration Firestopping	9
07 84 46	Fire-Resistive Joint Systems	4
07 92 00	Joint Sealants	8

DIVISION 08	OPENINGS
--------------------	-----------------

Section No.	Title	Page Count
08 11 13	Hollow Metal Doors and Frames	9
08 14 16	Flush Wood Doors	5
08 31 13	Access Doors and Frames	3
08 34 36	Revolving Darkroom Doors	2
08 44 13	Glazed Aluminum Curtain Walls	9
08 52 13	Aluminum Clad Wood Windows	8
08 59 00	Wood Window Restoration	3
08 71 00	Door Hardware	17
08 80 00	Glazing	13
08 83 00	Frameless Mirrors	4
08 91 19	Fixed Louvers	6

DIVISION 09	FINISHES
--------------------	-----------------

Section No.	Title	Page Count
09 21 16	Gypsum Board Assemblies	10
09 21 20	Gypsum Board Shaft-Wall Assemblies	4
09 24 33	Cementitious Parging	2
09 30 13	Ceramic Tile	8
09 51 13	Acoustical Panel Ceilings	7
09 65 13	Resilient Base and Accessories	6
09 65 19	Resilient Tile Flooring	5
09 68 13	Carpet Tile	6
09 90 00	Painting and Coating	4
09 91 00	Painting	7

DIVISION 10	SPECIALTIES
--------------------	--------------------

Section No.	Title	Page Count
10 11 00	Visual Display Units	3
10 14 23	Panel Signage (Addendum No. 1)	3
10 26 00	Corner Guards	3
10 28 00	Toilet Accessories	5
10 44 00	Signage and Graphics	69
10 44 13	Fire Extinguisher Cabinets	5

**SECTION 00 01 10
TABLE OF CONTENTS
PROJECT MANUAL**

(Major Capital Projects Greater Than \$5,000,000)

Page 5 of 8

DIVISION 11	EQUIPMENT
--------------------	------------------

Section No.	Title	Page Count
11 53 13	Laboratory Fume Hoods	10
11 53 13.29	Ductless Fume Hoods (Addendum No. 1)	6
11 53 53	Emergency Wash/ Shower Safety Equipment	3
11 61 00	Laboratory Accessories	2

DIVISION 12	FURNISHINGS
--------------------	--------------------

Section No.	Title	Page Count
12 24 13	Roller Window Shades	5
12 35 53	Metal Laboratory Casework	14
12 35 53.33	Adaptable Laboratory Bench System	11
12 48 13	Entrance Floor Mats and Frames	3
12 93 00	Site Furnishings	3

DIVISION 13	SPECIAL CONSTRUCTION (Not Used)
--------------------	--

Section No.	Title	Page Count
-------------	-------	------------

DIVISION 14	CONVEYING SYSTEMS
--------------------	--------------------------

Section No.	Title	Page Count
14 21 00	Electric Traction Elevators	11

DIVISION 31	EARTHWORK
--------------------	------------------

Section No.	Title	Page Count
31 10 00	Site Clearing	4
31 23 00	Earthwork	25
31 25 00	Erosion and Sedimentation Controls	4

DIVISION 32	EXTERIOR IMPROVEMENTS
--------------------	------------------------------

Section No.	Title	Page Count
32 12 16	Asphalt Paving	4
32 13 13	Concrete Paving	2
32 15 00	Aggregate Surfacing	4
32 16 13	Concrete Curbs and Gutters	2
32 16 19	Bituminous Concrete Curbing	1
32 31 19	Decorative Metal Fences and Gates	4
32 35 16	Sound Barrier Walls	9
32 91 15	Soil Preparation (Performance Specification)	8
32 92 00	Turf and Grasses	9

DIVISION 33	UTILITIES
--------------------	------------------

Section No.	Title	Page Count
33 10 00	Water Utilities	7
33 30 00	Sanitary Sewerage Utilities	6
33 40 00	Storm Drainage Utilities	6

VOLUME 2 of 2

DIVISION 21 FIRE SUPPRESSION

Section No.	Title	Page Count
21 00 10	Fire Suppression Trades Reference to General Conditions	2
21 05 17	Sleeves and Sleeve Seals for Fire-Suppression Piping	5
21 05 18	Escutcheons for Fire-Suppression Piping	2
21 05 48	Vibration and Seismic Controls for Fire-Suppression Piping and Equipment	9
21 05 53	Identification for Fire-Suppression Piping and Equipment	5
21 12 00	Fire-Suppression Standpipes	13
21 13 13	Wet-Pipe Sprinkler Systems	20
21 13 16	Dry-Pipe Sprinkler Systems	18

DIVISION 22 PLUMBING

Section No.	Title	Page Count
22 00 10	General Conditions for Mechanical Trades	23
22 05 13	Common Motor Requirements for Plumbing Equipment	3
22 05 16	Expansion Fittings and Loops for Plumbing Piping	7
22 05 17	Sleeves and Sleeve Seals for Plumbing Piping	5
22 05 18	Escutcheons for Plumbing Piping	2
22 05 19	Meters and Gages for Plumbing Piping	6
22 05 23	General-Duty Valves for Plumbing Piping	44
22 05 29	Hangers and Supports for Plumbing Piping and Equipment	11
22 05 48	Vibration and Seismic Controls for Plumbing Piping and Equipment	12
22 05 53	Identification for Plumbing Piping and Equipment	6
22 07 19	Plumbing Piping Insulation	17
22 11 16	Domestic Water Piping	15
22 11 19	Domestic Water Piping Specialties	10
22 11 23	Domestic Water Pumps	5
22 13 16	Sanitary Waste and Vent Piping	9
22 13 19	Sanitary Waste Piping Specialties	9
22 14 13	Facility Storm Drainage Piping	7
22 14 23	Storm Drainage Piping Specialties	5
22 34 00	Fuel-Fired, Domestic-Water Heaters	7
22 40 00	Plumbing Fixtures	8
22 47 16	Pressure Water Coolers	3
22 66 00	Chemical-Waste Systems for Laboratory	5

DIVISION 23 HEATING VENTILATING AND AIR CONDITIONING

Section No.	Title	Page Count
23 00 10	HVAC Trades Reference to General Conditions	2
23 05 13	Common Motor Requirements for HVAC Equipment	4
23 05 16	Expansion Fittings and Loops for HVAC Piping	6
23 05 17	Sleeves and Sleeve Seals for HVAC Piping	5
23 05 18	Escutcheons for HVAC Piping	2
23 05 19	Gages for HVAC Piping	8
23 05 23	General-Duty Valves for HVAC Piping	15
23 05 29	Hangers and Supports for HVAC Piping and Equipment	11
23 05 48	Vibration and Seismic Controls for HVAC Systems	16
23 05 53	Identification for HVAC Piping and Equipment	8

**SECTION 00 01 10
TABLE OF CONTENTS
PROJECT MANUAL**

(Major Capital Projects Greater Than \$5,000,000)

Page 7 of 8

23 05 93	Testing, Adjusting, and Balancing for HVAC	21
23 07 13	Duct Insulation	17
23 07 16	HVAC Equipment Insulation	17
23 07 19	HVAC Piping Insulation	20
23 08 00	Commissioning of HVAC	5
23 09 00	Instrumentation and Control for HVAC	50
23 09 10	Instrumentation and Control for Laboratory	14
23 11 23	Facility Natural-Gas Piping	12
23 21 13	Hydronic Piping	20
23 21 13.13	Underground Hydronic Piping	10
23 21 16	Hydronic Piping Specialties	9
23 21 23	Hydronic Pumps	7
23 23 00	Refrigerant Piping	11
23 25 00	HVAC Water Treatment	8
23 31 13	Metal Ducts	21
23 33 00	Air Duct Accessories	18
23 34 16	Centrifugal HVAC Fans	9
23 34 16.1	Laboratory Exhaust Fans	7
23 36 00	Air Terminal Units	7
23 36 10	Laboratory Air Terminal Units	5
23 37 13	Diffusers, Registers, and Grilles	4
23 51 00	Breechings, Chimneys, and Stacks	5
23 52 16	Condensing Boilers	9
23 64 26	Rotary-Screw Water Chillers	15
23 73 14	Custom Central-Station Air-Handling Units	19
23 81 26	Split-System Air-Conditioners	8
23 82 16.11	Hydronic Air Coils	3
23 82 39.13	Cabinet Unit Heaters	8

DIVISION 25	INTEGRATED AUTOMATION (Not Used)
--------------------	---

Section No.	Title	Page Count
-------------	-------	------------

DIVISION 26	ELECTRICAL
--------------------	-------------------

Section No.	Title	Page Count
26 00 10	General Conditions for Electrical Trades	23
26 05 00	Common Work Results for Electrical	5
26 05 19	Low-Voltage Electrical Power Conductors and Cables	6
26 05 23	Control-Voltage Electrical Power Cables	3
26 05 26	Ground and Bonding for Electrical Systems	7
26 05 29	Hangers and Supports for Electrical Systems	6
26 05 33	Raceways and Boxes for Electrical Systems	10
26 05 43	Underground Ducts and Raceways for Electrical Systems	7
26 05 44	Sleeves and Sleeve Seals for Electrical Raceways and Cabling	5
26 05 48	Vibration and Seismic Controls for Electrical Systems	7
26 05 53	Identification for Electrical Systems	8
26 05 73	Protective Device Coordination Study	6
26 09 23	Lighting Control Devices	7
26 22 00	Low-Voltage Transformers	6
26 24 16	Panelboards	11
26 27 13	Electricity Metering	4
26 27 26	Wiring Devices	9
26 28 13	Fuses	4
26 28 16	Enclosed Switches and Circuit Breakers	6

**SECTION 00 01 10
TABLE OF CONTENTS
PROJECT MANUAL**

(Major Capital Projects Greater Than \$5,000,000)

Page 8 of 8

26 29 13	Enclosed Controllers	10
26 29 23	Variable-Frequency Motor Controllers	14
26 36 00	Transfer Switches	7
26 43 13	Surge Protection for Low-Voltage Electrical Power Circuits	5
26 51 00	Interior Lighting	16
26 56 00	Exterior Lighting	10

DIVISION 27	COMMUNICATIONS
--------------------	-----------------------

Section No.	Title	Page Count
27 00 10	Communications Trades Reference to General Conditions	2
27 05 26	Grounding and Bonding for Communications Systems	9
27 05 28	Pathways for Communications Systems	12
27 05 36	Cable Trays for Communications Systems	7
27 05 44	Sleeves and Sleeve Seals for Communications Pathways and Cabling	5

DIVISION 28	ELECTRONIC SAFETY AND SECURITY
--------------------	---------------------------------------

Section No.	Title	Page Count
28 00 10	Electronic Safety and Security Trades Reference to General Conditions	2
28 05 14	Conductors and Cables for Electronic Safety and Security	4
28 05 28	Pathways for Electronic Safety and Security	12
28 05 44	Sleeves and Sleeve Seals for Electronic Safety and Security Pathways and Cabling	5
28 31 11	Digital, Addressable Fire-Alarm System	15

END OF TABLE OF CONTENTS