Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

OWNER CHANGE ORDER
NO.: 007

Rev

TITLE: OCO #007 - PCI: # 28, #29, #31, #32, #34 & #35

DATE: 05/15/2019

PROJECT: Magnolia Science Academy

PROJECT NO.: 18049

TO: Magnolia Educational and Research Foundation
250 E. 1st St., 1500
Los Angeles, CA

CONTRACT: 18049

We are requesting approval of Owner Change Order #007 which incorporates the following PCIs:

PCI #	Description	Amount
PCI028	Drywall Finish From Level 5 to Level 4	-$ 20,288.06
PCI029	Fibermesh 150 (Polypropylene) in Lieu of Wire Mesh at the Second Floor	$ 4,910.00
PCI031	DWP New Electrical Service Pole	$ 5,907.00
PCI032	Bulletin 4 & 5 Adds	$ 30,001.00
PCI034	Chem Lab Emergency Natural Gas Shut Off (RFI 191)	$ 11,340.00
PCI035	Millwork Submittal Changes Added Costs	$ 1,995.00
	Total:	**$ 33,864.94**

The Original Contract Sum was	**$ 7,392,479.00**
Net Change by Previously Authorized Requests and Changes	**$ 452,680.00**
The Contract Sum Prior to This Change Order was	**$ 7,845,159.00**
The Contract Sum will be Increased	**$ 33,864.94**
The New Contract Sum Including This Change Order	**$ 7,879,023.94**
The Contract Time Will Not Be Changed	
The Date of Substantial Completion as of This Change Order therefore is	**07/02/2019**

ACCEPTED:

Oltmans Construction Co.

By: _____
Trevor Lawton, Project Manager

Date: _____

Magnolia Educational and Research Foundation

By: _____

Date: _____

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

POTENTIAL CHANGE ITEM
PCI028

TITLE: Drywall Finish From Level 5 to Level 4 **DATE:** 04/19/2019

PROJECT: Magnolia Science Academy **PROJECT NO.:** 18049

TO:

Magnolia Educational and Research Foundation
250 E. 1st St., 1500
Los Angeles, CA

We respectfully request your approval of the following change to the original scope of work:

DESCRIPTION:

This change order request includes costs associated with the reduction of drywall finish from level 5 to level 4 per RFI 180. Refer to RFI 180 for locations where level 5 finish is to remain.

Vendor	Description	Amount
Oltmans Drywall/Door	Drywall Finish From Level 5 to Level 4. See OCCO Wall COR 6 for reference.	-18,739.06
	SUBTOTAL:	**-18,739.06**
	Bond	-153.00
	Gross Tax	-24.00
	GL	-181.00
	SDI	-234.00
	Fee	-957.00
	SUBTOTAL:	**-1,549.00**
	TOTAL COST FOR THIS CHANGE ORDER REQUEST:	**-20,288.06**

APPROVAL:
Oltmans Construction Co.
BY: Trevor Lawton
DATE: 4/19/19

APPROVAL:
Magnolia Educational and Research
BY:
DATE:

Bid Summary

Magnolia Science Academy

MSA COR 6

Bid No. 1168

Selected Sections: 09260 Tape Walls
Selected Typical Areas:
Selected Areas: (unassigned)

Estimator: **KJ - Kris Johnston**
Job Class:
Wage Type: **Los Angeles/Orange County**
Job Site: 18220 Sherman Way, Reseda, CA 91335

Job Status:
Bid Date/Time: **4/19/2018 10:26:19 AM**
Plans Date: **4/19/2018**

Deduct from Level 5 to Level 4 Finish.

09260 Tape Walls

(unassigned)

No.	Condition	Height	Quantity	Unit Price Mat.	Lab.	Total	Total Price	Man Days
1	L5 deduct to L4	10' 0"	3,135.24 LF	-0.37	-5.60	-5.98 / LF	-18,739.06	-30.55
						Material & Labor Total:	**-18,739.06**	**-30.55**
						(unassigned) Total:	**-18,739.06**	**-30.55**
						09260 Tape Walls Total:	**-18,739.06**	**-30.55**
						Grand without additional markups Total:	**-18,739.06**	**-30.55**
						Additional Markups Total:	**0.00**	
						Grand Total:	**-18,739.06**	

Oltmans
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REQUEST FOR INFORMATION
RFI-180

SUBJECT: Drywall Level 4 In Lieu of Level 5 Finish at Selected Location
PROJECT: Magnolia Science Academy

TO: Johann Wang
Franco Architects Inc.

FROM: Elizabeth Lara
Oltmans Construction Co.

DATE: 03/20/2019
PROJECT NO.: 18049
REQUIRED: 03/25/2019
COST IMPACT: POTENTIALLY
DAYS IMPACT: POTENTIALLY

Co-Author: Oltmans Construction Co. **Contact:** Trevor Lawton **Co-Author RFI Number:** Drywall Level 4

Request:

Requested by Trevor Lawton, 3/20/19:

Per our discussion at the OAC meeting, we are confirming we will proceed with level 4 in lieu of level 5 with the exception of walls where there is drywall erase paint and at the atrium wall as a VE.

Suggestion:

Answer: ☐ **Accept Suggestion**

Affirmative.

Johann Wang Architect
Answered By:

Date: 03/21/19

Distribution:

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

POTENTIAL CHANGE ITEM
PCI029

TITLE: Fibermesh 150 (Polypropylene) in Lieu of Wire Mesh at the Second Floor **DATE:** 04/19/2019

PROJECT: Magnolia Science Academy **PROJECT NO.:** 18049

TO: Patrick Anton Ontiveros
Magnolia Educational and Research Foundation
250 E. 1st St., 1500
Los Angeles, CA

We respectfully request your approval of the following change to the original scope of work:

DESCRIPTION:

This Potential Change Item (PCI) tracks costs associated with the added labor, materials, and equipment required to install the Fibermesh 150 (Polypropylene) in lieu of wire mesh at the second floor per the request of Tim Buresch at the OAC meeting dated 9/5/18 and per the approved submittal #03300-04 and RFI 062.1.

_Credit wire mesh labor and material: ($6,955)
_Add for Fibermesh 150 (Polypropylene) and added finishing time due to fibers: $11,215.00

This PCI excludes any items not identified above including future or design impact, and changes caused by City review or inspections.

Vendor	Description	Amount
Johasee Rebar, LP	Wire Mesh Credit (Labor & Material)	-6,955.00
Oltmans Concrete	Cast-in-Place Concrete	11,488.00
	Bond	38.00
	SUBTOTAL:	**4,571.00**
	Fee	232.00
	GL	44.00
	Gross Tax	6.00
	SDI	57.00
	TOTAL COST FOR THIS CHANGE ORDER REQUEST:	**4,910.00**

APPROVAL:
Oltmans Construction Co.

BY: Trevor Lawton
DATE:

APPROVAL:
Magnolia Educational and Research

BY: Patrick Anton Ontiveros
DATE:

REINFORCING STEEL GROUP

Leaders in Rebar and Post-Tensioning
Fabrication and Installation since 1987

18059 Rosedale Hwy | Bakersfield, CA 93314
T: 661.589.0972 | F: 661.589.7881
CA State License #1013859

RCO #1R1

Credit

To: **OLTMANS CONSTRUCTION COMPANY**
10005 Mission Mill Rd.
Whittier, CA

Date: Dec 18, 2018

By Email: Trevorl@oltmans.com

Attention: **Trevor Lawton**

Johasee Project No.: 18-0389

Project: **Magnolia Science Academy**

The following variation to your contract with us is hereby requested, in the amount of:

Extra: **$** **(6,955.00)**
Credit:

Breakdown: RFI-062; RFI-062.1, concrete topping slab.

6x6x4/4	Mesh	-107	Sheets	@	$	65.00	/Sheet	=	$	(6,955.00)

Attached: Add delete sheet and RFI-062; RFI-062.1.

Submitted by: **Johasee Rebar, LP** Approved by: **Name & Title:** Susan Vuong, Contract Administrator	Received by: **OLTMANS CONSTRUCTION COMPANY** Approved by: **Name and Title:**

Note: If approved, please issue a change order to the contract amount, or send back signed proposal in order to proceed with fabrication of material.

THANK YOU FOR YOUR BUSINESS

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

POTENTIAL CHANGE ITEM
PCI002

TITLE: Cost to add 1.5#'s of Polypropylene fibers to the lightweight concrete mix **DATE:** 10/29/2018

PROJECT: Concrete, Magnolia Science Academy **PROJECT NO.:** C18049

TO:

Oltmans Construction Co.
10005 Mission Mill Road
Whittier, CA 90601

We respectfully request your approval of the following change to the original scope of work:

DESCRIPTION:

Vendor	Description	Amount
	General Conditions	210.00
	Concrete	10,648.27
	SUBTOTAL:	**10,858.27**
	TOTAL COST FOR THIS CHANGE ORDER REQUEST:	**10,858.27**

APPROVAL:
Oltmans Construction Co.

BY: Raymond Elias
DATE:

APPROVAL:
Oltmans Construction Co.

BY:
DATE:

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

POTENTIAL CHANGE ITEM
PCI003

TITLE: Added finishing time for the addition of Fibers to the lt wt decks **DATE:** 10/29/2018

PROJECT: Concrete, Magnolia Science Academy **PROJECT NO.:** C18049

TO:

Oltmans Construction Co.
10005 Mission Mill Road
Whittier, CA 90601

We respectfully request your approval of the following change to the original scope of work:

DESCRIPTION:

Vendor	Description	Amount
Mead Construction Company	Cement Finishing	630.00
	SUBTOTAL:	**630.00**
	TOTAL COST FOR THIS CHANGE ORDER REQUEST:	**630.00**

APPROVAL:
Oltmans Construction Co.

BY: Raymond Elias
DATE:

APPROVAL:
Oltmans Construction Co.

BY:
DATE:

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

REQUEST FOR INFORMATION
RFI-062

SUBJECT:	Concrete Topping Slab Clarification	**DATE:**	08/21/2018
PROJECT:	Magnolia Science Academy	**PROJECT NO.:**	18049
		REQUIRED:	08/24/2018
TO:	Etmny Cornejo	**COST IMPACT:**	POTENTIALLY
	Franco Architects Inc.	**DAYS IMPACT:**	POTENTIALLY
FROM:	Olivia Sanchez		
	Oltmans Construction Co.		

Co-Author: **Contact:** **Co-Author RFI Number:**

Request:

Refer to: S4.0

1. The concrete topping on 2nd floor over plywood is not a standard decking detail and we would like to ensure we are meeting design intent and general functionality.
   a. Please confirm the +/-2.5" concrete topping slab (4000psi) over ¾" plywood on the 2nd floor is to receive wire mesh per S4.0.
   b. Please confirm there is NO relief/soft cuts required for this slab.
   c. Please advise if there are any pre-loading or shoring requirements for the 2nd floor and rooftop decks.

Suggestion:

Answer: ☐ **Accept Suggestion**

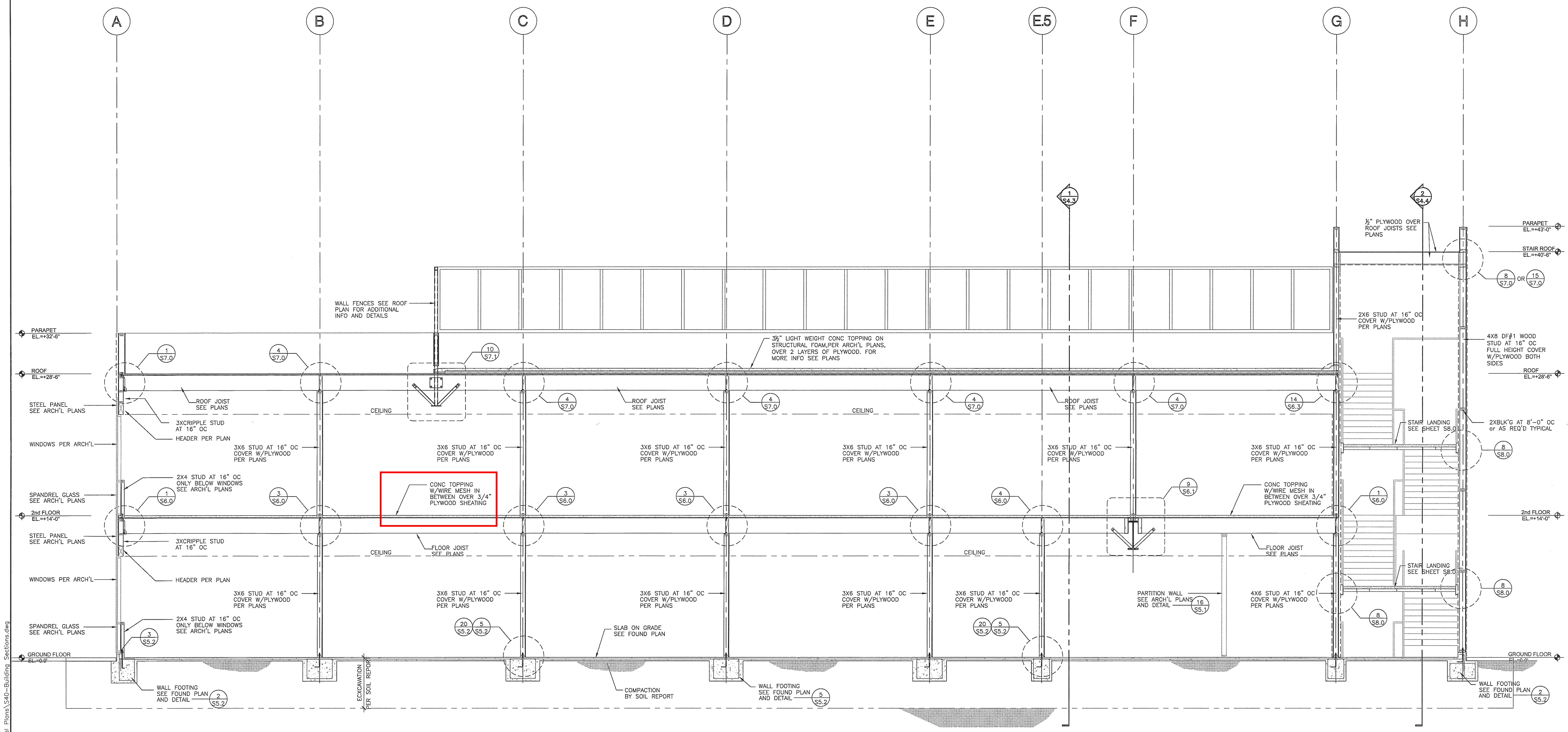
1. The floor joists and plywood are designed to support the light weight concrete topping.
a. Please make sure the concrete is LIGHT WEIGHT CONCRETE. The concrete topping slab receives wire mesh per notes 1 on sheet S2.0.
b. No relief/soft cuts is required
c. No pre-loading or shoring is required. The plywood and roof/floor framing is designed to support the extra concrete weight. Please make sure all the roof/floor framing and diaphragm are constructed per approved structural set first. Then the concrete topping can be constructed.

Z.C.

Answered By:

Date: 08/21/2018

Distribution:



NOTE:
EXTERIOR WALLS ARE FIRE RETARDANT TREATED SEE PLANS and DETAIL 20/S7.2

1/S4.0 BUILDING SECTION

SCALE: 1/4"=1'-0"

NOTES:

1. FOR INFORMATION NOT SHOWN SEE ARCH'L PLANS SECTION 1/A5.1
2. ELEVATION TO BE VERIFIED W/ARCH'L PLANS
3. FOR JOISTS/BEAMS/DECK DIRECTION SEE PLANS

FRANCO ARCHITECTS INC.
12345 Ventura Blvd. H
Studio City, CA 91604
Tel 818 754-2030
Fax 818 754-2032
Architecture and Planning

B & B ASSOCIATES
STRUCTURAL ENGINEERS

MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA91335

REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	PLAN CHECK #2	

MAGNOLIA SCIENCE ACADEMY
18238 SHERMAN WAY, RESEDA, CA91335
BUILDING SECTION

OM 03/09/2018
17-127 AS NOTED

S4.0

READY TO ISSUE BY LARRYTEE MAY 31 2018

May 29,2018 — 8:52 am ; User: oscar ; X:\17-127 Magnolia Science Academy\1 Structural Plans\S40-Building Sections.dwg

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

REQUEST FOR INFORMATION
RFI-062.1

SUBJECT:	Fiberglass Mesh Specification	**DATE:**	09/11/2018
PROJECT:	Magnolia Science Academy	**PROJECT NO.:**	18049
		REQUIRED:	09/14/2018
TO:	Etmny Cornejo	**COST IMPACT:**	POTENTIALLY
	Franco Architects Inc.	**DAYS IMPACT:**	POTENTIALLY
FROM:	Olivia Sanchez		
	Oltmans Construction Co.		

Co-Author: **Contact:** **Co-Author RFI Number:**

Request:

Refer to: Response to RFI 062

Response to RFI #062 states concrete topping slab to receive wire mesh per note 1 on S2.0. Per OAC meeting on 9/5/2018, owner has requested fiberglass mesh in lieu of wire mesh. Please provide a specification for fiberglass mesh.

Suggestion:

Answer: ☐ **Accept Suggestion**

please verify fiberglass mesh or polypropylene fibers. please let me know

f.b.

Answered By:

Date: 9/13/18

Distribution:

Contact	Company
Devin Ulibarri	Oltmans Construction Co.
Jeff Rich	Oltmans Construction Co.
Johann Wang	Franco Architects Inc.
Karen Montalvo	Franco Architects Inc.
Stephanie Liu	Franco Architects Inc.
Sarineh Minasian	Franco Architects Inc.
Tim Buresh	Magnolia Educational and Research Foundation

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

TRANSMITTAL
TRN-052

PROJECT: Magnolia Science Academy

PROJECT NO.: 18049

TO: Franco Architects Inc.
12345 Ventura Blvd.
Suite H
Studio City, CA 91604

DATE: 09/26/2018

RE: Concrete Mix Design with 1.5# of Fibers

ATTN: Etmny Cornejo

WE ARE SENDING:		SUBMITTED FOR:				ACTION TAKEN:	
	Shop Drawings	✓	Approval				Approved as Noted
	Letter		Your Use				Reviewed
	Prints		As Requested				Submit
	Change Order		Review and Comment				
	Plans						
	Samples	SENT VIA:					
	Specifications	✓	Attached		Separate Cover		
✓	Other: Mix Design	Other: EMAIL					
✓	Submittal:						

Line	Item	Package	Code	Rev.	Qty.	Date	Description	Status
1	Submittal	03300	03300-04	1		09/26/2018	Concrete Mix Design with 1.5# of Fibers	Submitted

REMARKS: Please see attached submittal for your review and approval. Generally, all of the Oltmans Construction notes shall be in green. Please return this submittal within five (5) days from date stated above.

Per RFI #062.1

CC:

FROM: Olivia Sanchez
Project Engineer

REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR CTF DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESS AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS OR HER WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

REVIEWED REJECTED
REVISE & RESUBMIT FURNISH AS CORRECTED

DATE 09/28/18 BY Johann Wang
FRANCO ARCHITECTS, INC.

☑ Reviewed ☐ Revise & Resubmit
☐ Furnish as Corrected ☐ Rejected

Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This is only for review of the general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: Confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction: coordinating his or her work with that of all other trades and performing all work in a safe and satisfactory manner.

B&B ASSOCIATES, INC.

Date: 9/26/18

By: C.K.

IMPORTANT NOTES:

APPROVED ARCHITECTURAL AND STRUCTURAL DRAWINGS ALWAYS TAKE PRECEDENCE OVER THE SHOP DRAWINGS.
ANY CHANGES IN THE SHOP DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
ANY DEVIATION FROM APPROVED DRAWINGS WITHOUT RFI OR CLOUDS FOR VERIFICATION FROM THE ENGINEER OF RECORD, IT WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.

Oltmans Construction Company
Magnolia Science Academy
SUBMITTAL NO: 03300-04
SUBCONTRACTOR: OCCO Concrete
The information contained within this submittal has been reviewed for general conformance with the requirements of the work and the contract documents. This review does not relieve the subcontractor and/or supplier from responsibilities stipulated in the contract.
BY: Olivia Sanchez **DATE:** 9/26/18
All Pages Reviewed

ROBERTSON'S

ROCK * SAND * BASE MATERIALS
READY MIX CONCRETE

QUALITY CONTROL - TECHNICAL SERVICES

FACSIMILE MESSAGE

Telephone: (951) 685-2200 ext 6381
FAX #: (951) 280-1429

To:	Oltmans Construction	From:	ROBERTSON'S READY MIX
Attn:	Raymond Elias	From:	Robbi Stanoff
Fax:		Fax:	**(951) 280-1429**
E-mail:	RaymondE@oltmans.com	E-mail:	Robbie@rrmca.com
Date:	09/24/2018	No. of Pages (INCLUDING COVER PAGE)	3 + Certs

Subject: Mix design for Magnolia Science Academy- 18220 Sherman Way, Reseda

Message: ***Please check with the sales department for any possible price changes.***

ROBERTSON'S

ROCK * SAND * BASE MATERIALS
READY MIX CONCRETE

Date: 6/26/2018

Concrete Mix Design #: 613901

Project: **Magnolia Science Academy- 18220 Sherman Way - Reseda**
Contractor: **Oltmans Construction**
Description: 4000 psi Lightweight Mix
Strength (f'c): 4000 psi
Slump: 4 "
Max. Size of Agg.: 3/8 "
Pump Type: Verify with pump company

W/C ratio: 0.50
Sack Content: 6.91 sk.
Gal/sk.: 5.64
Plastic Un. Wt.: 123
Equilibrium unit weight Un. Wt.: 110

Aggregate Weights are SSD; Moisture in Aggregates Must be Considered When Determining Total Mix Water

Contents:			**MIX DESIGN PROPORTION** Batch Wt.	%used	Sp. Gr.	Volume
Cement (ASTM C-150)			650	100	3.15	3.31
Fly Ash-Class F (ASTM C-618)			0	0	2.33	0.00
Sand			1417	50	2.62	8.65
1-1/2" x 3/4"			0	0	2.67	0.00
Hydrolite	16.82 cubic ft		925	50	1.75	8.48
3/8" x #8			0	0	2.65	0.00
Water		39.0 gal.	324.9			5.21
Entrained Air		5 %				1.35
			3317		Vol. =	27.00

ADMIXTURES :

Pozz200N	(ASTM C-494)	3.0 oz./cwt.	19.5 oz.	
Micro Air	(ASTM C-260)	.3 to 5 oz./cwt.	2 to 33 oz range	
**Optional Fibers: Fibermesh 150			1.5 lbs/yd.	

Notes: Dosage rate of entrained air shall be adjusted to achieve the design air content.

Fibermesh 150 fibers are non-stock. Please request 3-5 days prior to pour.

PLEASE FORWARD STRENGTH DATA TO ROBERTSON'S TECHNICAL SERVICES FOR STATISTICAL ANALYSIS

Size	%	2"	1 1/2"	1"	3/4"	1/2"	3/8"	No 4	No 8	No 16	No 30	No 50	No 100	No 200
1 1/2"	0	100	95	33	7	3	1	0	0	0	0	0	0	0
Hydrolite	50	100	100	100	100	100	93	33	12	7	0	0	0	0
3/8"	0	100	100	100	100	100	96	18	2	1	1	0	0	0
WCS	50	100	100	100	100	100	100	98	77	60	39	18	6	2
Combined	100	100	100	100	100	100	97	66	45	34	20	9	3	1

Sand Source : Robertson's Palmdale
Rock Source : TXI - Expanded Shale & Clay
Cement : Portland Cement Type II/V

Aggregates meet ASTM C-330

(951) 685-2200 ext 381 P.O. Box 3600 Corona, CA 92878 Fax (951) 280-1429

Compressive Strength Results

Mix # 613901

Project: Magnolia Science Academy- 18220 Sherman Way - Reseda Date: 6/26/2018

Subject: Submittal

MSA, in.: 3/8

EqSack: 6.91

Source of Aggregate: Palmdale/ TXI Exp. Shale

Cement: Mitsubishi

Mineral Admixture: None

Chemical Admixture: Pozz200N/Micro Air

Set #	Cast Date	28 day test 1	28 day Test 2	28 Day Average	Range	Cumulative Average	Cumulative Standard Deviation	Cumulative Coefficient Variance	Moving Three (3)
1	12/9/2015	4210	4350	4280	140	4280			
2	12/9/2015	4540	4580	4560	40	4420	198.0	4.5	
3	12/9/2015	4670	4540	4605	130	4482	176.1	3.9	4482
4	12/9/2015	4460	4270	4365	190	4453	155.2	3.5	4510
5	12/9/2015	4390	4640	4515	250	4465	137.2	3.1	4495
6	12/14/2015	4480	4830	4655	350	4497	145.2	3.2	4512
7	12/14/2015	4930	5150	5040	220	4574	244.4	5.3	4737
8	12/14/2015	4340	4560	4450	220	4559	230.5	5.1	4715
9	12/14/2015	4180	4270	4225	90	4522	242.6	5.4	4572
10	12/14/2015	4980	5160	5070	180	4577	287.1	6.3	4582
11	12/14/2015	5100	5170	5135	70	4627	320.2	6.9	4810
12	12/14/2015	4620	4550	4585	70	4624	305.5	6.6	4930
13	12/17/2015	4620	4600	4610	20	4623	292.5	6.3	4777
14	12/17/2015	4730	4870	4800	140	4635	285.0	6.1	4665
15	12/17/2015	4870	4760	4815	110	4647	278.6	6.0	4742
16	12/17/2015	4330	4920	4625	590	4646	269.2	5.8	4747
17	12/21/2015	4270	4370	4320	100	4627	272.3	5.9	4587
18	12/21/2015	4210	4180	4195	30	4603	283.1	6.2	4380
19	12/21/2015	4750	4550	4650	200	4605	275.4	6.0	4388
20	12/21/2015	4520	4270	4395	250	4595	272.1	5.9	4413
21	12/21/2015	4390	4440	4415	50	4586	268.1	5.8	4487
22	12/28/2015	4270	4280	4275	10	4572	269.9	5.9	4362
23	12/28/2015	4240	4400	4320	160	4561	268.9	5.9	4337
24	12/28/2015	4220	4350	4285	130	4550	269.0	5.9	4293
25	12/28/2015	4280	4400	4340	120	4541	266.6	5.9	4315
26	12/31/2015	4160	4220	4190	60	4528	270.2	6.0	4272
27	12/31/2015	4640	4470	4555	170	4529	265.0	5.9	4362
28	12/31/2015	4770	4440	4605	330	4531	260.4	5.7	4450
29	12/31/2015	4190	4160	4175	30	4519	264.1	5.8	4445
30	12/31/2015	4050	4270	4160	220	4507	267.7	5.9	4313

Spec'd *f'c* = 4000 psi @ 28 days

Reg'd *f'cr* = 4359 psi, the larger of [1] or[2] Below

Number of tests	30
Modification Factor (K)	1
Maximum	5135
Minimum	4160
Average	4507
Standard Deviation (s)	267.7
Coefficient of variation	5.9

[1] *f'cr* = *f'c* +1.34ks = 4000 + (1.34 * 1 * 267.7) 4359

[2] *f'cr* = *f'c* +*2.33* ks - 500 = 4000 + (2.33 * 1 * 267.7) - 500 4124

MITSUBISHI CEMENT CORPORATION

CERTIFICATE OF TEST

Portland Cement - Type I, II, II (MH) & V **Date: 9/10/2018**

Source: Cushenbury Plant, 5808 State Highway 18, Lucerne Valley, CA 92356

ASTM designation: C 150 - 16 for Type I, II, II (MH) & V low alkali Cement
CALTRANS Specification: Section 90 – 2.01 for Type II modified and V (2006)
Specification: Section 90 – 1.02B(2) (2015)
NDOT Specification: Section 701.03.01 for Type II and V
AZDOTSpecifications Subsection 1006-2.01 for Type II and V

Production Period
From: 8/1/2018
To: 8/31/2018

Chemical Composition:

	ASTM C-150 Limits				Test
	Type I	Type II	Type V		Results
Silicon Dioxide (SiO_2), %	---	---	---	Min.	20.9
Aluminum Oxide (Al_2O_3), %	---	6.0	---	Max.	4.1
Ferric Oxide (Fe_2O_3), %	---	6.0	---	Max.	3.7
Calcium Oxide (CaO), %	---	---	---		62.6
Magnesium Oxide (MgO), %	6.0	6.0	6.0	Max.	3.1
Sulfur Trioxide (SO_3), %	3.0	3.0	2.3	Max.	2.2
Loss on Ignition (LOI), %	3.5	3.5	3.5	Max.	2.0
Insoluble Residue	1.5	1.5	1.5	Max.	0.71
Total Alkali (%Na_2O + 0.658 * %K_2O)	0.60	0.60	0.60	Max.	0.51
Tricalcium Silicate (C_3S), [b] %	---	---	---		54
Tricalcium Aluminate (C_3A), [b] %	---	8	5	Max.	4
$C_4AF + 2*C_3A$ [b]	---	---	25	Max.	20
$C_3S + 4.75*C_3A$ [b]	---	100	---	Max.	76
CO_2, %	---	---	---		1.3
Limestone, %	5.0	5.0	5.0	Max.	3.4
$CaCO_3$ Limestone Purity, %	70	70	70	Min.	84

PHYSICAL RESULTS:

Blaine Fineness (m^2/kg)	260 / ---	260 / 430	260 / ---	Min / Max	382
325 Mesh (% Passing)	---	---	---		98.4
Autoclave Expansion (%)	0.80	0.80	0.80	Max.	0.06
Time of Set Initial Vicat (minutes)	45 / 375	45 / 375	45 / 375	Min / Max	132
Air Entrainment (% Volume)	12	12	12	Max.	6.4
C1702 Heat of Hydration at 7 Days (J/g)	---	---	---	[a]	338
False Set, %	50	50	50	Min.	88
Color, (L value)	---	---	---		56

Compressive Strength Test:

		Type I		Type II		Type V			MPA	PSI
		MPA	psi	MPA	psi	MPA	psi			
1 Day		---	---	---	---	---	---		13.9	2011
3 Day		12.0	1740	10.0	1450	8.0	1160	Min.	24.6	3569
7 Day		19.0	2760	17.0	2470	15.0	2180	Min.	32.9	4766
28 Day	July 2018	---	---	---	---	21.0	3050	Min.	43.1	6249

This cement has been sampled and tested in accordance with ASTM standard methods and procedures. All tests results are certified to comply with the type specification designated above. No other warranty is made or implied. We are not responsible for improper use or workmanship. The MCC laboratory is AASHTO accredited.
[a] For information only. [b] Adjusted per ASTM C150 A1.6.

MITSUBISHI CEMENT CORPORATION

Tom Gepford
Quality Control Manager

MITSUBISHI CEMENT CORPORATION

CERTIFICATE OF TEST

Source: Cushenbury Plant **Portland Cement - Type I, II, II (MH) & V** **Date: 9/10/2018**

ASTM designation: C 150 - 16 for Type I, II, II (MH) & V low alkali Cement	**Production Period**
CALTRANS Specification: Section 90 – 2.01 for Type II modified and V	**From: 8/1/2018**
Specification: Section 90 – 1.02B(2) (2010)	
NDOT Specification: Section 701 – 3.01 for Type II and V	**To: 8/31/2018**
AZDOTSpecifications Subsection 1006-2.01 for Type II and V	

Additional Data

Limestone Addition

% Addition:	3.4
SiO2 (%)	8.7
Al_2O_3 (%)	2.6
Fe_2O_3 (%)	0.8
CaO (%)	47.6
SO_3 (%)	0.6

Base Cement Phase Composition

C_3S	56
C_2S	18
C_3A	5
C_4AF	11

We certify that the above described data represents the material used in the cement manufactured during the production period indicated.

MITSUBISHI CEMENT CORPORATION
Cushenbury plant

Tom Gepford
Quality Control Manager

FIBERMESH® 150

PRODUCT DATA SHEET

FIBERMESH® 150 SYNTHETIC FIBER

Fibermesh 150, formerly Stealth® e3®, micro-reinforcement system for concrete—100 percent virgin homopolymer polypropylene multifilament fibers containing no reprocessed olefin materials. Specifically engineered and manufactured in an ISO 9001:2000 certified facility for use as concrete reinforcement at an application rate of 1.0 to 1.5 lbs per cubic yard (.60 to .90 kg per cubic meter). UL Classified. Complies with National Building Codes and ASTM C 1116/C 1116M, Type III fiber reinforced concrete.

ADVANTAGES

Non-magnetic • Rustproof • Alkali proof • Requires no minimum amount of concrete cover • Is always positioned in compliance with codes • Safe and easy to use • Saves time and hassle.

FEATURES & BENEFITS

- Inhibits and controls the formation of intrinsic cracking in concrete
- Reinforces against impact forces
- Reinforces against abrasion
- Reinforces against the effect of shattering forces
- Reinforces against water migration
- Provides improved durability
- Reduces plastic shrinkage and settlement cracking
- Alternate system to traditional reinforcement when used for secondary (crack control) reinforcing in concrete

PRIMARY APPLICATIONS

Applicable to all types of concrete which demonstrate a need for resistance to intrinsic cracking and improved water tightness and an aesthetic finish.

- Slabs-on-ground
- Sidewalks
- Driveways
- Stucco
- Curbs
- Overlays & toppings
- Slope paving
- Exposed aggregate

CHEMICAL AND PHYSICAL PROPERTIES

Absorption	Nil	Melt Point	324°F (162°C)
Specific Gravity	0.91	Ignition Point	1100°F (593°C)
Fiber Length*	Graded	Thermal Conductivity	Low
Electrical Conductivity	Low	Alkali Resistance	Alkali Proof
Acid & Salt Resistance	High		

*Also available in single cut lengths

DO SPECIFY FIBERMESH 150 FIBERS:

- Reduced plastic shrinkage cracking
- Improved impact, shatter and abrasion resistance
- Reduced water migration and damage from freeze/thaw
- Improved durability
- Areas requiring non-metallic materials
- Concrete that needs an architectural finish

DO NOT SPECIFY FIBERMESH 150 FIBERS:

- Crack control from external stresses
- Increasing joint spacing beyond ACI and PCA guidelines
- Decreasing thickness of slabs
- Replacing any moment or structural steel

PROPEX® | THE ADVANTAGE CREATORS.™

CONCRETE SYSTEMS

FIBERMESH® 150

PRODUCT USE

MIXING DESIGNS AND PROCEDURES: Fibermesh® 150 micro reinforcing is a mechanical, not chemical, process. The addition of Fibermesh 150 multifilament fibers do not require any additional water or other mix design changes at normal rates. Fibermesh 150 fibers are added to the mixer before, during or after batching the other concrete materials. Mixing time and speed are specified in ASTM C 94.

FINISHING: Fibermesh 150 micro-reinforced concrete can be finished by any finishing technique. Exposed aggregate, broomed and tined surfaces are no problem.

APPLICATION RATE: The application rate for Fibermesh 150 fibers is 1.0 to 1.5 lbs per cubic yard (.60 to .90 kg per cubic meter). Note: .75 lbs per cubic yard (.44 kg per cubic meter) may be acceptable based on local building codes.

GUIDELINES

Fibermesh 150 fibers should not be used to replace structural, load-bearing reinforcement. Fibermesh 150 fibers should not be used as a means of using thinner concrete sections than original design. Fibermesh 150 fibers should not be used to increase joint spacing past those dimensions suggested by PCA and ACI industry standard guidelines.

COMPATIBILITY

Fibermesh 150 fibers are compatible with all concrete admixtures and performance enhancing chemicals, but require no admixtures to work.

PACKAGING

Fibermesh 150 fibers are available in a variety of packaging options. Special packaging is available for full truckload addition. Fibermesh 150 fibers are packaged, packed into cartons, shrink-wrapped and palletized for protection during shipping.

TECHNICAL SERVICES

Trained Propex Concrete Systems specialists are available worldwide to assist and advise in specifications and field service. Propex Concrete Systems representatives do not engage in the practice of engineering or supervision of projects and are available solely for service and support of our customers.

REFERENCE DOCUMENTS

- ASTM C 94/C 94M Standard Specification for Ready-Mixed Concrete.
- ASTM C 1116/C 1116M Standard Specification for Fiber-Reinforced Concrete.
- ASTM C 1399 Standard Test Method for Obtaining Average Residual-Strength of Fiber-Reinforced Concrete.
- ASTM C 1436 Standard Specification for Materials for Shotcrete.
- ASTM C 1609/C 1609M Standard Test Method for Flexural Performance of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading). Replaces ASTM C 1018.
- ACI 304 Guide for Measuring, Mixing, Transporting and Placing Concrete.
- ACI 506 Guide for Shotcrete.
- International Code Council (ICC) NER-414 Evaluation Report.

UL® Classified: Type Fibermesh 150. For use as an alternate or in addition to the welded wire fabric used in Floor-Ceiling D700, D800, D900 Series Designs. Fibers may also be used in Floor-Ceiling Design Nos. G229, G243, G256, G514. Fiber added to concrete mix at a rate of 1.0 lb of fiber for each cubic yard of concrete.

SPECIFICATION CLAUSE

Use Fibermesh 150 only 100 percent virgin polypropylene multifilament fibers containing no reprocessed olefin materials and specifically engineered and manufactured in an ISO 9001:2000 certified facility for use as concrete secondary reinforcement. Application per cubic yard shall equal a minimum of 1.0 lb/yd^3 (.60 kg/m^3). Fibers are for the control of cracking due to plastic shrinkage, plastic settlement and thermal expansion/contraction, lowered permeability, increased impact, abrasion and shatter resistance. Fiber manufacturer shall document evidence of ten year satisfactory performance history, ISO 9001:2000 certification of manufacturing facility, compliance with applicable building codes and ASTM C 1116/C 1116M, Type III fiber reinforced concrete. Fibrous concrete reinforcement shall be manufactured by Propex Concrete Systems, 6025 Lee Highway, Suite 425, PO Box 22788, Chattanooga, TN 37422, USA, tel: 423 892 8080, fax: 423 892 0157, web site: fibermesh.com.

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CONCRETE SYSTEMS

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Fax: +44 (0) 1246 465201

www.fibermesh.com

CS-509

10/07

PROPEX

Date: January 7, 2011

Certification of Compliance: FIBERMESH® 150 e3®

This letter is to certify that FIBERMESH® 150 e3® fibers meet our published specifications and the requirements of ASTM C-1116/C116M-08, Type III 4.1.3, "Standard Specification for Fiber-Reinforced Concrete. FIBERMESH 150 is a patented combination of graded multifilament polypropylene fibers manufactured and tested at Propex Chattanooga facility that has maintained ISO-9001:2008 certification for its systematic approach to quality.

The controlled blend of micro-multifilament fibers are made from 100% virgin polypropylene and we certify that FIBERMESH 150 e3 fibers reduce plastic shrinkage and plastic settlement crack formation, improve impact, abrasion and shatter resistance, reduce water migration and provide a minimum level of residual strength. The e3 technology is engineered for length, thickness, and mix ratio designed to provide excellent finishability with standard finishing techniques. FIBERMESH 150 is designed to have a virtually invisible finish, has excellent mixing properties and will not ball or clump during normal mixing procedures and conforms to the following properties:

Property		**Property**	
Denier	6, 20	Ignition Point	1100° F
Fiber Length	Graded	Thermal Conductivity	Low
Specific Gravity	0.91	Electrical Conductivity	Low
Absorption	Nil	Alkali Resistance	Alkali Proof
Melt Point	324° F	Acid & Salt Resistance	High

Thank you for choosing FIBERMESH® 150 e3® fibers. Please do not hesitate to contact us if we can be of further assistance.

Sincerely,

Carl Labbe
Chattanooga Manufacturing

PROPEX OPERATING COMPANY L L C.
6025 Lee Hwy, Ste 425 · PO Box 22788 · Chattanooga, TN 37422 · USA
Telephone 800.621.1273 · Fax 423.899.5005 · Internet: www.fibermesh.com

GRACE

Grace Construction Products
W.R. Grace & Co. – Conn.
293 Wright Brothers Avenue
Livermore, CA 94550

925–443–9700
www.graceconstruction.com

.
Robertson's
200 S. Main st
Corona, California 92336

Project Name: Various Locations
Product Selected: Darex® II AEA

This is to certify that the Darex® II AEA, a(n) Air–Entraining Agent, as manufactured and supplied by Grace Construction Products, W.R. Grace & Co. – Conn., is formulated to comply with the Specifications for Chemical Admixtures for Concrete, ASTM: C260 AASHTO: M154.

Darex® II AEA does not contain calcium chloride or chloride containing compounds as a functional ingredient. Chloride ions may be present in trace amounts contributed from the process water used in manufacturing.

The foregoing is in addition to and not in substitution for our standard Conditions of Sale attached.

Mike Gardner
Western Region Technical Services Manager

DAREX® II AEA

Air-entraining admixture

ASTM C260

Product Description

Darex® II AEA is an air-entraining admixture which generates a highly stable air void system for increased protection against damage from freezing and thawing, severe weathering, or de-icer chemicals. Darex II AEA is a complex mixture of organic acid salts in an aqueous solution specifically formulated for use as an air-entraining admixture for concrete and is manufactured under rigid control which provides uniform, predictable performance. It is supplied ready-to-use and does not require pre-mixing with water. Darex II AEA is a dark brown liquid. One gallon weighs 8.7 lbs (1.04 kg/L). Darex II AEA complies to ASTM C260 *Standard Specifications for Air-Entraining Admixtures for Concrete.*

Uses

Darex II AEA is used in ready-mix, block, and concrete products plants to improve air entrainment stability. It is particularly effective in maintaining air content during longer haul times. Darex II AEA performs well in conventional concrete and is effective in plasticizing mixes and with slag, lightweight, or manufactured aggregates which tend to produce harsh concrete.

Darex II AEA entrains air effectively with microsilica concrete and with fly ash concrete.

Performance

By agitation of concrete mixers, Darex II AEA disperses and generates millions of discrete semi-microscopic bubbles throughout the concrete composite. Once thoroughly mixed, the concrete contains a stable network of bubbles which act much like ball bearings increasing mobility, or plasticity, of the concrete. This aids workability to the mix and permits a reduction of water with no loss of slump. Placeability is improved. Bleeding, segregation and green shrinkage are minimized.

Through the purposeful entrainment of air, Darex II AEA markedly increases the durability of concrete to all exposures.

Product Advantages

- Air stability makes it particularly useful for longer transit times
- Produces excellent air void systems in concretes that are traditionally difficult to air entrain

Addition Rates

There is no standard addition rate for Darex II AEA. The amount to be used will depend upon the amount of air required under job conditions, usually in the range of 4 to 7%. Typical factors which might influence the amount of air entrained are temperature, cement, sand gradation, and use of extra fine materials such as fly ash. Typical Darex II AEA addition rates generally range from ½ to 5 fl oz/100 lbs (30 to 320 mL/100 kg) of cement.

The air-entraining efficiency of Darex II AEA becomes even greater when used with water-reducing and set-retarding agents. This may allow a reduction of up to ⅔ in the amount of Darex II AEA required for the specified air content.

Mix Adjustment

Entrained air results in increased yields with a consequent decrease in the cement content of the placed concrete. This condition calls for a mix adjustment, usually accomplished by reducing the fine aggregate content. This is in addition to the reduction in water content brought about by the increase in plasticity.

Compatibility with Other Admixtures and Batch Sequencing

Darex II AEA is compatible with most Grace admixtures as long as they are added separately to the concrete mix. In general, it is recommended that Darex II AEA be added to the concrete mix near the beginning of the batch sequence for optimum performance, preferably by "dribbling" on the sand. Different sequencing may be used if local testing shows better performance. Please see Grace Technical Bulletin TB-0110, *Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations* for further recommendations. Darex II AEA should not be added directly to heated water.

Pretesting of the concrete mix should be performed before use, and as conditions and materials change in order to assure compatibility, and to optimize dosage rates, addition times in the batch sequencing and concrete performance. Please consult your Grace representative for guidance.

Packaging & Handling

Darex II AEA is available in bulk, delivered by metered tank trucks, totes and drums. **Darex II AEA will freeze at about 30°F (-1°C), but its air-entraining properties are completely restored by thawing and thorough mechanical agitation.**

Dispensing Equipment

A complete line of accurate dispensing equipment is available. These dispensers can be located to discharge into the water line, the mixer, or on the sand.

Specifications

Concrete shall be air entrained concrete, containing 4 to 7% entrained air. The air contents in the concrete shall be determined by the pressure method (ASTM Designation C231), gravimetric method (ASTM Designation C138) or volume metric method (ASTM Designation C173). The air-entraining admixture shall be Darex II AEA as manufactured by Grace Construction Products, or equal. The air-entraining admixture shall be added at the concrete mixer or batching plant at approximately ½ to 5 fl oz/100 lbs (30 to 320 mL/100 kg) of cement, or in such quantities as to give the specified air contents.

www.graceconstruction.com

North American Customer Service: 1-877-4AD-MIX1 (1-877-423-6491)

AIR-3H Printed in U.S.A. 11/07 FA/LI/1M

GRACE

gcp applied technologies
GRACE CONSTRUCTION & PACKAGING

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Alla Cannon
Product Certification Specialist
+1 617 498 2639 Office
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alla.y.cannon@gcpat.com

10/20/17

To whom it may concern:

This is to certify that **ZYLA 625** a water reducing and retarding admixture as manufactured and supplied by GCP Applied Technologies Inc. is formulated to comply with the Standard Specification for Chemical Admixtures for Concrete, ASTM C 494, Type A and D (AASHTO M 194, Type A and D).

The maximum chloride ion content is 1000 ppm. Typical ZYLA 625 water reducer dosage rates range from 3 to 5 oz/cwt (195 to 325 ml/100kg) and a wider dosage rate range of 2 to 10 oz/cwt (130 to 652 mL/100 kg) can be used if local testing shows acceptable performance.

ZYLA 625 does not contain calcium chloride or chloride containing compounds as a functional ingredient. Chloride ions may be present in trace amounts as contributed from process water used in manufacturing.

A. Cannon

Alla Cannon
Product Certification Specialist

ZYLA® 625

Water-reducing admixture

ASTM C494 Type A and D

Product Description

ZYLA® 625 water-reducing admixture is a proprietary formulation incorporating polycarboxylate and highly purified specialty organic chemicals. It promotes more complete hydration of Portland cement and has minimal effect on concrete air entrainment. The ZYLA product line of water reducers is specially formulated to have a synergistic effect with polycarboxylate-based mid-range and high-range water reducers that improve flat-work finishability. This product contains no intentionally added chloride and as such is essentially chloride free. It is manufactured under rigid controls that provide uniform, predictable performance. ZYLA 625 water reducer is supplied as a light brown, low viscosity liquid, and is ready-to-use as received. One gallon weighs approximately 9.1 lbs (1.09 kg/L). This product meets the requirements of *Specification for Chemical Admixtures for Concrete*, ASTM Designation C494 as a Type A and D admixture. Please consult your Grace representative for guidance on the ZYLA product line.

Product Advantages

- Minimal impact on concrete air content
- Better control of water reduction and setting times as compared to traditional lignin-based water reducers
- Synergistic performance of polycarboxylate-based mid-range and high-range water reducers, which include water reduction, concrete strength and air control
- In the hardened state, improves the compressive and flexural strengths at all ages of concrete versus traditional lignin-based water reducers

Uses

ZYLA® 625 water reducer is used to produce concrete mixes with lower water content (typically 3% to 10% reduction), greater plasticity and higher compressive strengths. It is suitable for normal weight and light weight concrete in ready-mix, precast and prestressed applications.

Finishability

The unique chemistry of ZYLA® 625 product positively impacts the finishability of concrete by providing a creamier and more homogenous texture, with more uniform and increased bleed rate relative to traditional lignin-based water reducers, although less than ZYLA 610. The influence of ZYLA 625 product on the finishability of lean mixes has been particularly noticeable. Floating and troweling, by machine or hand, imparts a smooth, close tolerance surface.

Addition Rates

The addition rate range of 3 to 5 fl oz/100 lbs (195 to 325 mL/100 kg) of cement or cementitious is typical for most applications. However addition rates of 2 to 10 fl oz/100 lbs (130 to 652 mL/100 kg) of cement or cementitious may be used if local testing shows acceptable performance. Pretesting is required to determine the appropriate addition rate for desired performance. The optimum addition rate depends on the other concrete mixture components, job conditions, and desired performance characteristics.

Compatibility with Other Admixtures and Batch Sequencing

ZYLA® 625 water reducer is compatible with most Grace admixtures as long as they are added separately to the concrete mix, usually through the water holding tank discharge line. However, it is not recommended for use in concrete containing naphthalene-based and melamine-based admixtures. In general, it is recommended that ZYLA 625 admixture be added to the concrete mix near the end of the batch sequence for optimum performance. Different sequencing may be

used if local testing shows better performance. Please see Grace Technical Bulletin TB-0110, *Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations* for further recommendations. ZYLA 625 water reducer should not come in contact with any other admixture before or during the batching process, even if diluted in mix water.

Pretesting of the concrete mix should be performed before use, and as conditions and materials change in order to assure compatibility, and to optimize dosage rates, addition times in the batch sequencing and concrete performance. For concrete that requires air entrainment, the use of an ASTM C260 air-entraining agent (such as Daravair® or Darex® product lines) is recommended to provide suitable air void parameters for freeze-thaw resistance. Please consult your Grace representative for guidance.

Packaging & Handling

ZYLA® 625 water reducing admixture is available in bulk, delivered by metered tank trucks, in 275 gal (1,040 L) totes, and in 55 gal (210 L) drums. It will freeze at about 28°F (-2°C), but will be completely uniform after thawing and thorough agitation.

Dispensing Equipment

A complete line of accurate, automatic dispensing equipment is available. ZYLA® 625 product may be introduced to the mix through the water holding tank discharge line. The ZYLA product line is formulated to be free of sediment.

Specifications

Concrete shall be designed in accordance with *Standard Recommended Practice for Selecting Proportions for Concrete*, ACI 211.

The water-reducing admixture shall be ZYLA® 625, as manufactured by Grace Construction Products, or equal. The admixture shall not contain calcium chloride as a functional ingredient. ZYLA 625 admixture will not promote corrosion of reinforcing steel embedded in concrete. It shall be used in strict accordance with the manufacturers' recommendations. The admixture shall comply with ASTM Designation C494, Type A and D water-reducing admixtures. Certification of compliance shall be made available on request.

The admixture shall be delivered as a ready-to-use liquid product and shall require no mixing at the batching plant or job site.

www.graceconstruction.com

North American Customer Service: 1-877-4AD-MIX1 (1-877-423-6491)

ZYLA-625 Printed in U.S.A. 03/15 GCS/PDF

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SDVOSB . DVBE

Job Name: Robertson's Ready Mix
Sample I.D.: WCS
Job Number: 170003L Source: Palmdale
Date : July 7, 2017 Tested By: DRB

ASTM C136 Sieve Analysis of Fine and Coarse Aggregate

			C33 Specification
Metric	Stand.	% Pass	% Pass
9.5_{mm}	3/8"	100	100
4.75_{mm}	# 4	96	95-100
2.36_{mm}	# 8	81	80-100
1.18_{mm}	# 16	59	50-85
600_{um}	# 30	39	25-60
300_{um}	# 50	19	5-30
150_{um}	# 100	5	0-10
75_{um}	# 200	0.4	-
Fineness Modulus		3.1	2.3-3.1

ASTM C88 Soundness of Aggregates-Sodium Sulfate

Sieve Size	Individual % Retained	Individual % Loss	% Loss By Weight
#8	15	3.4	0.5
#16	20	5.7	1.1
#30	20	6.6	1.3
#50	14	8.3	1.2
Total % Loss by Weight (C33 Spec. 10% Max)			4.1

ASTM C289 Potential-Alkali Silica Reactivity

Alkaline Reactivity mmol/L	Dissolved Silica mmol/L
65	24

*This aggregate is considered innocuous

ASTM	TEST	RESULT	C33 Specification
C40	Oganic Impurities	1	3 Maximum
D2419	Sand Equivalent	83	-
C123	Lightweight Particles	0.0%	1% Maximum
C142	Clay Lumps & Friable Particles	0.4%	1% Maximum

Respectfully Submitted,
SCST, Inc.

Scott H. Vacula, PE C72600
Senior Materials Engineer

CHJ Consultants

A Terracon COMPANY

January 12, 2017

Revised July 11, 2017

Trinity Industries, Inc.
11728 Highway 93
Boulder, Colorado 80303
Attention: Mr. Charles Kerzic

Job No. 16001-5

Subject: ASTM C330 Compliance Testing
Frazier Park Structural Lightweight Aggregate (Hydrolite)

Dear Mr. Kerzic:

At your request, CHJ Consultants performed tests on the Trinity Industries Structural Lightweight Aggregate (Hydrolite) to verify conformance with ASTM Designation C330-14 "Standard Specification for Lightweight Aggregates for Structural Concrete". The Trinity Industries Structural Lightweight Aggregate is an expanded clay aggregate produced at the Trinity Industries plant in Frazier Park. The results are as follows.

A. DELETERIOUS SUBSTANCES:

Test	Test Method	Test Result	C330 Requirement
Organic Impurities	C40	Lighter than Standard	Lighter Than Standard
Staining	C641	Stain Index of 20	Stain Index of Less Than 60
Loss on Ignition	C114	0.97 Percent	Less than 5 Percent

B. PHYSICAL TESTS:

Test	Test Method	Test Result	C330 Requirement
Clay Lumps and Friable Particles	C142	0.1 Percent	Less than 2 Percent
Bulk Density Dry Loose Condition	C29	49.1 pcf	55 pcf Maximum
Bulk Density Saturated Loose Condition	C29	57.1 pcf	No Requirement
Specific Gravity	C127	1.74	No Requirement
Absorption	C127	24.0	No Requirement

GRADING - SIEVE ANALYSIS (Test Method C136) Coarse Aggregate: 3/8-Inch to No. 8		
Sieve Size	**Percent Passing**	**C330 Requirement**
1/2" (12.5 mm)	100	100
3/8" (9.5 mm)	82	80-100
No. 4 (4.75 mm)	16	5-40
No. 8 (2.36 mm)	2	0-20
No. 16 (1.18 mm)	1	0-10

C. TESTS ON CONCRETE MADE WITH LIGHTWEIGHT AGGREGATE:
Concrete Mixture – 3/8" Lightweight Aggregate

Material	Weight (lbs.)	Specific Gravity	Absolute Volume
Cement - Type II	564	3.15	2.87
Water	300	1.00	4.81
Natural Sand	1,482	2.63	8.93
Trinity Frazier Park	942	1.74	8.57
Admixtures:			
Water Reducing (fl. oz.)	22.6		
Air Entraining (fl. oz.)	0.8		
Slump (inches)	4.50		
Air Content (%)	6.75		1.82
Plastic Unit Weight (pcf)	120.6		

Test	Test Method	28-Day Test Result (psi)	C330 Requirement
Compressive Strength	C39	4,280	
		4,110	
		4,410	
Average		4,270	3,000 psi Minimum
Splitting Tensile	C496	500	
		490	
		470	
		495	
		395	
		460	
		450	
		435	
Average		460	310 psi Minimum

TESTS ON CONCRETE MADE WITH LIGHTWEIGHT AGGREGATE (Cont'd):
Concrete Mixture – 3/8" Lightweight Aggregate

Test	Test Method	Test Result	C 330 Requirement
Oven Dry Density	C567-14 (Measured)	106.8 106.3 106.4	
Average		106.5	No Requirement
Calculated Approximate Equilibrium Density	C567-14 (Calculated per Section 9.2)	109.5 pcf	110.0 pcf Maximum
Equilibrium Density	C567-14 (Air dried per Section 8.2)	111.8 111.5 112.1	
Average		111.8	No Requirement
Drying Shrinkage	C330 (Section 8.4)	0.054%	0.070% (Max)
Popout Test	C151	No Popouts	No Popouts

D. CONFORMANCE:

The Trinity Structural Lightweight Aggregate (Hydrolite) manufactured by Trinity Industries, Inc. at Frazier Park, California, conforms to the requirements of ASTM Designation: C330-14 "Standard Specification for Lightweight Aggregates for Structural Concrete" for the tests indicated.

Thank you for the opportunity to provide materials testing services. If you should have any questions regarding this information, please do not hesitate to contact this firm at your convenience.

Respectfully submitted,

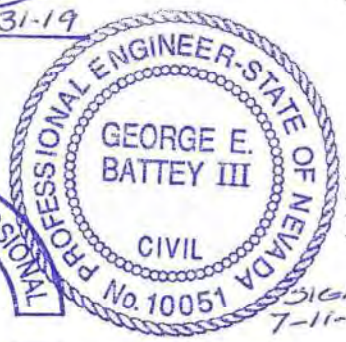
CHJ CONSULTANTS,
A TERRACON COMPANY

George Battey III

George Battey III
Senior Consulting Engineer

California Registered Civil Engineer No. 34323
Registration Expires 09-30-2017

Arizona Registered Professional
(Civil) Engineer No. 29666
Registration Expires 12-31-2018



Nevada Professional Engineer No. 10051
Registration Expires 12-31-2018

Oregon Professional Engineer No. 16120
Registration Expires 12-31-2017

Distribution: Trinity Industries (4)
Charles Kerzic - email (charles.kerzic@trin.net)
Nick Barrett - email (nick.barrett@trin.net)

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

POTENTIAL CHANGE ITEM
PCI031

TITLE: DWP New Electrical Service Pole **DATE:** 05/06/2019

PROJECT: Magnolia Science Academy **PROJECT NO.:** 18049

TO:

Magnolia Educational and Research Foundation
250 E. 1st St., 1500
Los Angeles, CA

We respectfully request your approval of the following change to the original scope of work:

DESCRIPTION:

This Potential Change Item (PCI) tracks costs associated with the added labor, materials, and equipment required to install the added LADWP electrical pole not previously included in our scope. Reference E2.1 for site plan.

DWP has advised that the Owner needs to install a new pole to feed the new electrical equipment (LADWP page 7-28 Design & Installation Guide for Overhead Services, 0-600 volts sheet)

This PCI excludes any items not identified above including additional move-ins, engineering, testing and permits. It excludes any schedule associated impacts, general conditions, future changes caused by City review or inspections.

Vendor	Description	Amount
Safeway Bldg. Systems Inc. dba Safeway Electric	Electrical: DWP Electrical Service Pole	5,453.00
	SUBTOTAL:	**5,453.00**
	Bond	45.00
	Gross Tax	8.00
	GL	53.00
	SDI	69.00
	Fee	279.00
	SUBTOTAL:	**454.00**
	TOTAL COST FOR THIS CHANGE ORDER REQUEST:	**5,907.00**

APPROVAL:
Oltmans Construction Co.

BY: Trevor Lawton
DATE:

APPROVAL:
Magnolia Educational and Research

BY:
DATE:

Elizabeth Lara

From: Elizabeth Lara
Sent: Tuesday, April 2, 2019 3:14 PM
To: 'cbedoy@safewaybsi.com'
Cc: Trevor Lawton; Jeff Rich; 'projectsupport@safewaybsi.com'
Subject: MSA - DWP Electrical Service Pole RFP
Attachments: New Electrical Service Pole Required Per DWP.pdf

Categories: Archived

Hello Carlos,

DWP has advised that the Owner needs to install a new pole to feed the new electrical. Your Foreman was present when Jeff met with DWP and they told us location and gave us the attached pole requirement. Please price the new pole and send us a COR referencing DWP Electrical Pole. If there is a lead time, please let us know.

Thank you,
Elizabeth F. Lara
Sr. Project Engineer

Oltmans Construction Co.
T 562.948.4411, Ext. 3432

-----Original Message-----
From: Trevor Lawton <TrevorL@oltmans.com>
Sent: Thursday, March 21, 2019 3:29 PM
To: Jeff Rich <JeffR@oltmans.com>; Elizabeth Lara <ElizabethL@oltmans.com>
Subject: RE:

So we need to have Safeway price installing a pole? Isn't there a pole already there that we can come down... seems redundant but whatever.

Trevor Lawton, CESSWI, QSP
Project Manager

Oltmans Construction Co.
T 562.948.4242, Ext. 3459
C 916.276.7666

-----Original Message-----
From: Jeff Rich <JeffR@oltmans.com>
Sent: Thursday, March 21, 2019 10:28 AM
To: Elizabeth Lara <ElizabethL@oltmans.com>
Cc: Trevor Lawton <TrevorL@oltmans.com>
Subject: FW:

This was the paperwork given to me from Tom with DWP. Tom is the electrical side. We need to install a new power pole to feed the new electrical equipment.

Jeff Rich
Superintendent
Oltmans Construction Co.
C 562.217.5741
jeffr@oltmans.com

-----Original Message-----
From: OltmansConstruction@oltmans.com <OltmansConstruction@oltmans.com>
Sent: Thursday, March 21, 2019 7:27 AM
To: Jeff Rich <JeffR@oltmans.com>
Subject:

This E-mail was sent from "OCCO-Reseda" (Aficio MP C2800).

Scan Date: 03.21.2019 10:26:39 (-0400)
Queries to: OltmansConstruction@oltmans.com

"Building a Safe & Secure Southern California"

Request For Change Order

To: Oltmans Construction Co
10005 Mission Mill Road
Whittier, CA 90601

Project: Oltmans Magnolia Science Cnt

RFC No: 18
Date: 4/23/2019
Description: SCOPE:
Electrical Construction: This Change Order Request is for the Added SOW for the Installation of the New DWP Electrical Pole.

INCLUDES:
This proposal includes all materials, tax, equipment, and labor as needed to provide a complete and operable system for work as described herein.

EXCLUDES:
Overtime
Shift work
Permits & Fees
Inclusions and Exclusions of the Original Executed Contract will apply to this cost estimate
Anything not expressly included above

"Building a Safe & Secure Southern California"

Request For Change Order

To: Oltmans Construction Co
10005 Mission Mill Road
Whittier, CA 90601

Project: Oltmans Magnolia Science Cnt

The above work is subject to the same conditions as specified in the original contract unless otherwise stipulated.

Upon approval the sum of $5,453.00 will be added to the contract price.

Original Contract	$473,950.00
Other Approved Change Orders	$10,847.53
Total Contract to Date	$484,797.53
This Request	$5,453.00
Other Pending Requests	$65,072.76
Total Contract plus Pending RFCs	$555,323.29

Authorized Signature: _____ Date: _____
Safeway Building Systems, Inc

Authorized Signature: _____ Date: _____
Oltmans Construction Co

1474 Miller Drive | Colton, CA 92324
Phone (909) 824-6441
Fax (909) 824-0571
www.safewaybsi.com
Lic # B/C-10 387886
Lic # C-46, C-7
ACO# 3998

Safeway ELECTRIC

Since 1980

"Building a Safe & Secure Southern California

Change Order Request Form

Customer: Oltmans Construction

Project: Magnoila Science Academy

Job Number: E129718

Date: 4/29/19 COR 18

This COR is for the procurement and installation of (1) DWP Electrical Pole, as requested by the Owner.

Labor Costs

Position	Hours Worked	Hourly Rate	OT Hours	OT Rate	Total Cost
Journeyman	26	$ 85.00		$ 127.50	$ 2,210.00
Foreman		$ 95.00		$ 142.50	$ -
Superintendent		$ 105.00		$ 157.50	$ -
				Mark Up 10%	$ 221.00
				Total Labor Costs	$ 2,431.00

Material Costs

See Material Breakout Report Attached		$ 2,543.72
	Subtotal	$ 2,543.72
	Sales Tax 8%	$ 203.50
	Mark Up 10%	$ 274.72
		$ 3,021.94

Equipment Costs

Description	Day	Rate	Total
		$ -	$ -
		Mark-Up 10%	$ -
		Total Equipment Costs	$ -

Subcontractors

		$ -
		$ -
		$ -
	Subcontractor Costs	$ -
	Mark-up @ 10%	$ -
	Total Subcontractor Costs	$ -

Total Daily Change Order Due $ 5,452.94

JOB 2869 1284: LADWP POLE - MSA
ESTIMATE 1 1284:
DATA SET 11 CommTSC/EST/NECA 07/14...

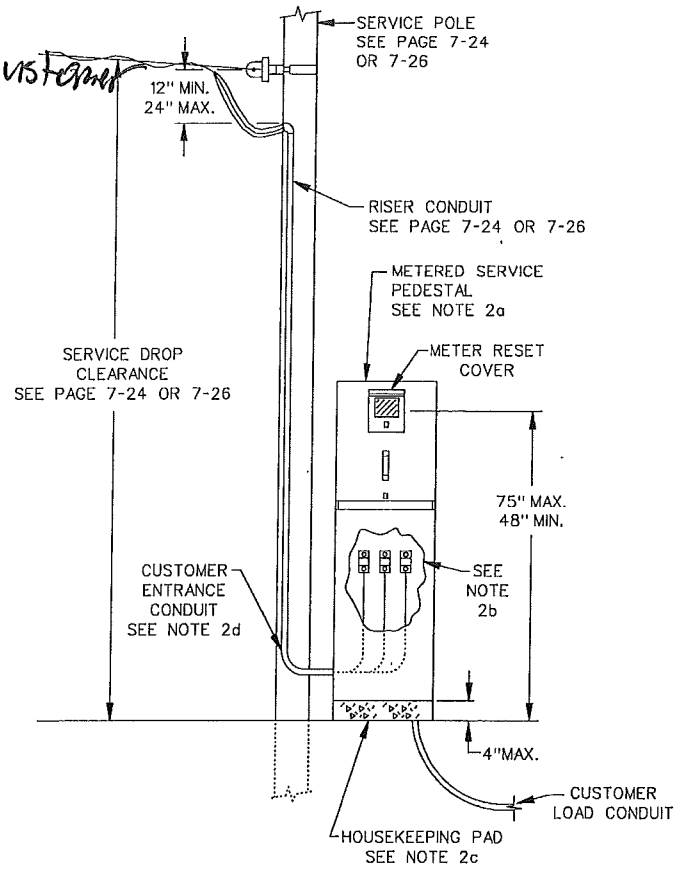
PRINTED 4/29/2019 10:41:08 AM
MATERIAL Primary
LABOR Primary

NOTES

Item				Material	Labor
Size	**Item Desc**	**Qty**	**UOM**	**Mat Ext**	**Lbr Ext**
	20' POLE AND DELIVERY	1.00	EACH	900.00	2.0000
	MISC	1.00	LOT	100.00	2.0000
	AUGER INSTALL	1.00	EACH	750.00	8.0000
(LABOR ITEM)	16' TO 20' POLE	1.00	EACH	0.00	2.8000
2 1/2"	PVC SCH 40	50.00	FEET	54.00	4.5000
2 1/2"	PVC SCH 40 90 ELBOW	2.00	EACH	6.20	0.4000
2 1/2"	PVC COUPLING	4.00	EACH	2.88	0.6000
2 1/2"	WEATHERHEAD	1.00	EACH	184.60	0.9000
2 1/2"	GRC 2 HOLE STRAP	6.00	EACH	4.86	0.3000
1.	THHN STR CU	50.00	FEET	64.00	0.5500
3/0	THHN STR CU	198.00	FEET	477.18	3.9600
Grand Totals				2,543.72	26.0100

CUSTOMER-OWNED PERMANENT/TEMPORARY SERVICE POLE WITH PEDESTAL
200 AMPERES MAXIMUM, 0-600 VOLTS

+10'
-100' - Pole to Customer pole.



1. For wood or metal customer-owned service pole details, see pages 7-24 to 7-27.
2. For metered service pedestal in used conjunction with customer-owned service poles:
   a. A commercial service and meter pedestal is required for all applications. The total service capacity is limited to 200 amperes. For dual-socket pedestal designs, the ampacity of each service disconnect (meter switch) shall not exceed 100 amperes.
   b. A permanent sign shall be provided on the service entrance pull box cover reading:
      "Wires in this Pull Box are the Responsibility of the Customer to Provide and Maintain"
   c. The pedestal shall be mounted on a substantial concrete foundation.
   d. Service entrance conduit riser and conductors shall enter the side of the pedestal's incoming pull box, be continuous and free of junction boxes and condulets.
3. Additional references:
   a. For safety-socket meter panel details, see pages 2-24 and 2-26.
   b. For commercial service and meter pedestals, see page 2-44, 2-45 and 2-46.
   c. Engineering offices and telephone numbers, see page 1-4.

CUSTOMER-OWNED PERMANENT/TEMPORARY WOOD SERVICE POLE
200 AMPERES MAXIMUM, 0-600 VOLTS

NOTES:

1. The pole shall be a new, self-supporting, fully-treated round pole with a minimum length of 25 feet and a minimum diameter at the top of 5 inches.

   Note: Used poles are not acceptable.

2. Service drop conductors, service drop attachment bracket and the meter shall be furnished and installed by the Department - all other equipment shall be furnished and installed by the contractor.

3. Risers shall be 3/4-inch minimum polyvinyl Chloride (PVC) schedule 40 or metallic conduit and shall be securely attached to the pole.

4. Floodlights, signs, ropes, and other similar equipment shall not be attached to the pole.

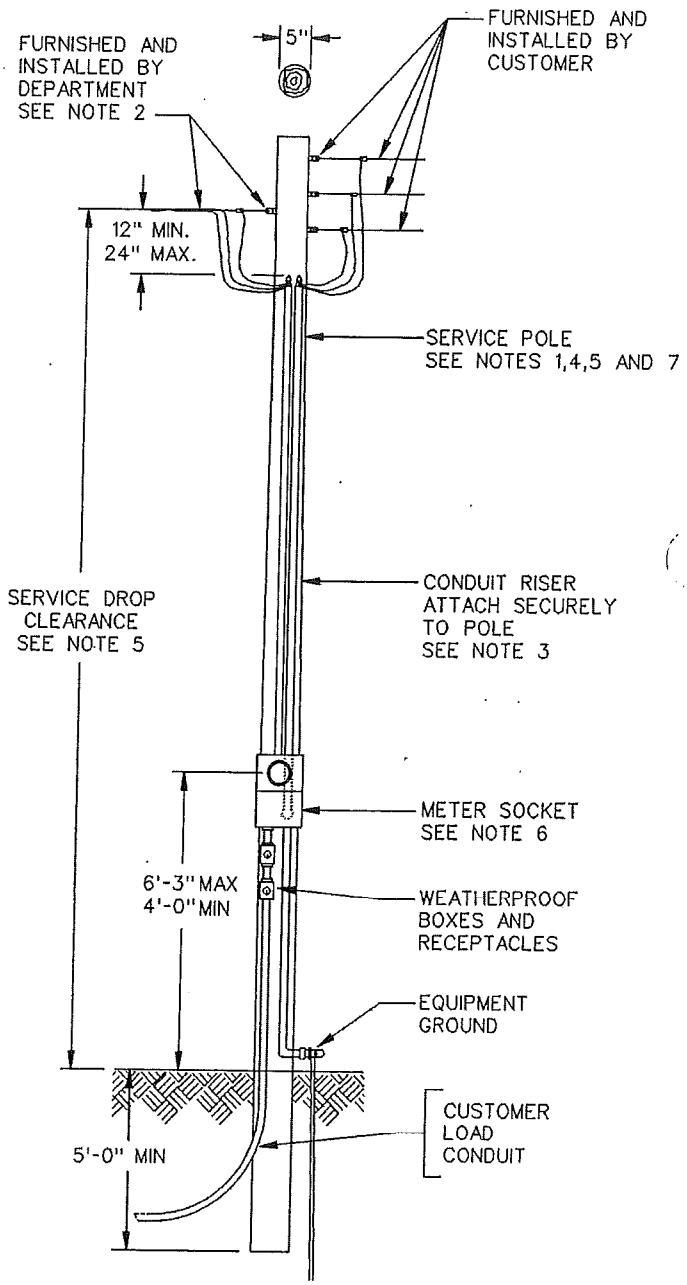
5. The pole shall be located:

   a. At least 10 feet from the Department service pole and, whenever practicable, at least 10 feet laterally from the center of the pole line but not more than 150 feet from the Department's servicing pole.

   b. So that the ground clearance, buildings and other obstructions shall not reduce the service drop height below the required minimum clearances specified on pages 7-4 to 7-9.

      Note: Consult with the area service planning office to determine the location of the attachment bracket on the pole required to meet the specified clearances.

6. For permanent service applications, a safety-socket meter panel is required for all commercial services. For temporary service applications, a residential meter socket may be used for a 125-ampere, single-phase service - a safety-socket meter panel is required for all others.



Note: The service equipment short-circuit duty rating must meet or exceed the Department's fault current value for the installation.

CUSTOMER-OWNED PERMANENT/TEMPORARY METAL SERVICE POLE (Cont.)

2. Attachments to metal poles shall be made with devices that will not affect the strength or integrity of the pole (see attachment detail). Drilling or welding are not acceptable.

3. The Department will furnish the attachment bracket and furnish and install the service drop conductors and meter. The customer shall install the attachment bracket and shall furnish and install the pole and all other equipment.

4. Riser conduits shall be 3/4-inch minimum polyvinyl Chloride (PVC) schedule 40 or metallic conduit. Metallic riser conduits are not required to be covered as long as the metal pole is effectively grounded and the metallic conduits are bonded to the pole. If a protective covering is required, consult the Department.

5. Floodlights, signs, ropes, and other similar equipment shall not be attached to the pole.

6. The pole shall be located:

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      Note: Consult with the area service planning office to determine the location of the attachment bracket on the pole required to meet the specified clearances.

7. For permanent service applications, a safety-socket meter panel is required for all commercial services. For temporary service applications, a residential meter socket may be used for a 125-ampere, single-phase service - a safety-socket meter panel is required for all others.

   Note: The service equipment short-circuit duty rating must meet or exceed the Department's fault current value for the installation.

8. The numeric portion of the street address shall be provided on the pole on the side facing the street or drivable surface. Plastic or metallic numbers of the type used for house addresses are acceptable.

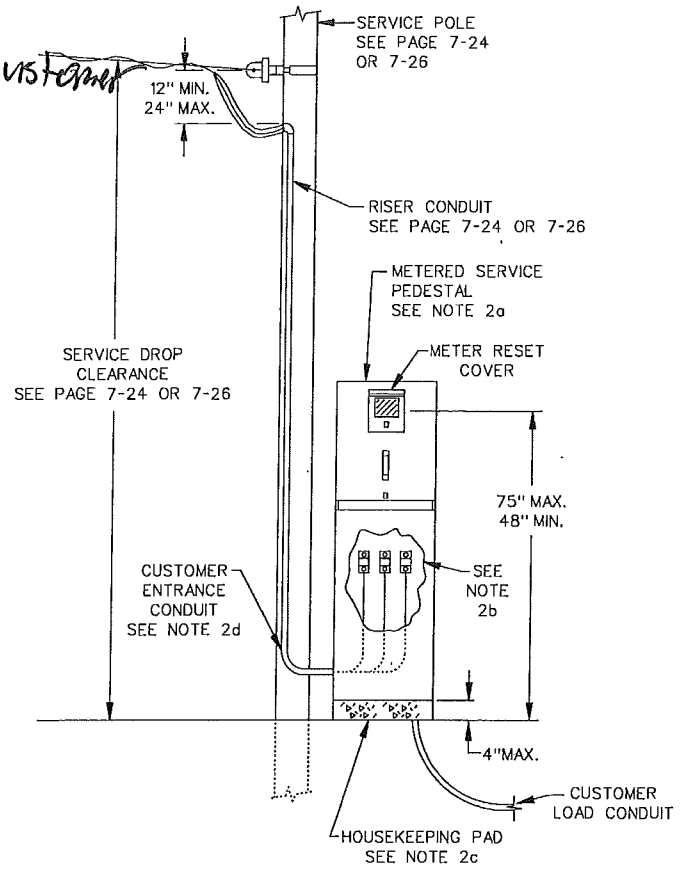
9. Additional references:

   a. For safety-socket meter panel details, see pages 2-24 and 2-26.

   b. Engineering offices and telephone numbers, see page 1-4.

CUSTOMER-OWNED PERMANENT/TEMPORARY SERVICE POLE WITH PEDESTAL
200 AMPERES MAXIMUM, 0-600 VOLTS

+10'
-100' - Pole to Customer pole.



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   d. Service entrance conduit riser and conductors shall enter the side of the pedestal's incoming pull box, be continuous and free of junction boxes and condulets.
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CUSTOMER-OWNED PERMANENT/TEMPORARY WOOD SERVICE POLE
200 AMPERES MAXIMUM, 0-600 VOLTS

NOTES:

1. The pole shall be a new, self-supporting, fully-treated round pole with a minimum length of 25 feet and a minimum diameter at the top of 5 inches.

   Note: Used poles are not acceptable.

2. Service drop conductors, service drop attachment bracket and the meter shall be furnished and installed by the Department - all other equipment shall be furnished and installed by the contractor.

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4. Floodlights, signs, ropes, and other similar equipment shall not be attached to the pole.

5. The pole shall be located:

   a. At least 10 feet from the Department service pole and, whenever practicable, at least 10 feet laterally from the center of the pole line but not more than 150 feet from the Department's servicing pole.

   b. So that the ground clearance, buildings and other obstructions shall not reduce the service drop height below the required minimum clearances specified on pages 7-4 to 7-9.

      Note: Consult with the area service planning office to determine the location of the attachment bracket on the pole required to meet the specified clearances.

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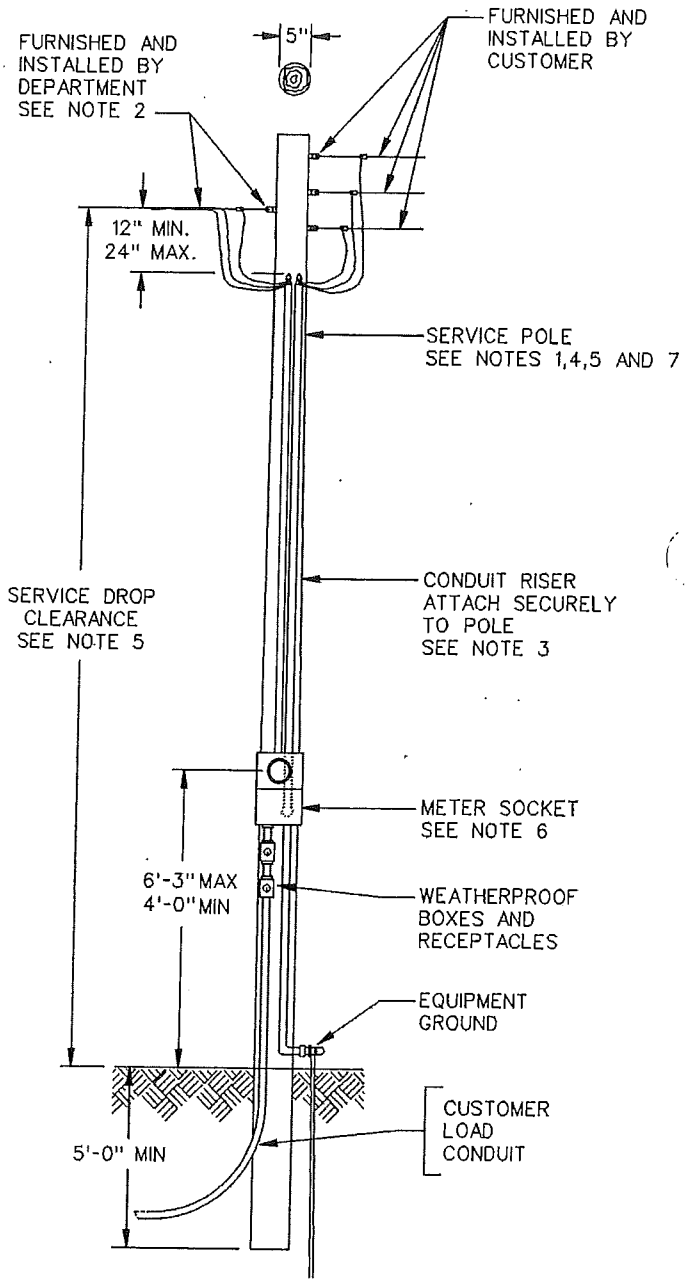

Note: The service equipment short-circuit duty rating must meet or exceed the Department's fault current value for the installation.

CUSTOMER-OWNED PERMANENT/TEMPORARY METAL SERVICE POLE (Cont.)

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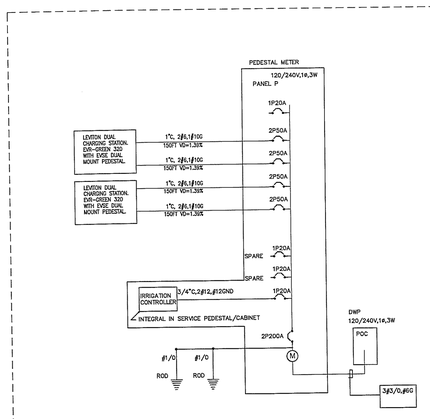
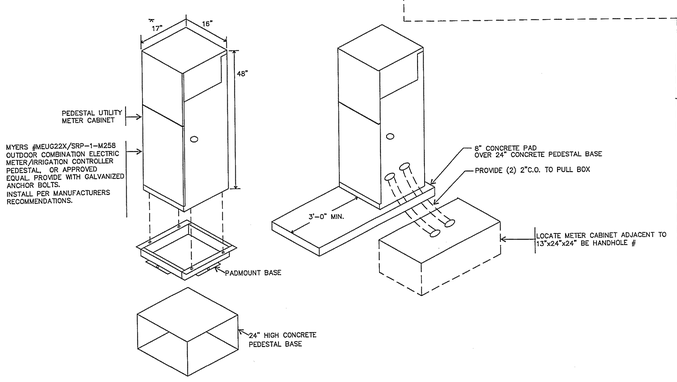


SINGLE LINE DIAGRAM



METER CABINET – PEDESTAL MOUNTED

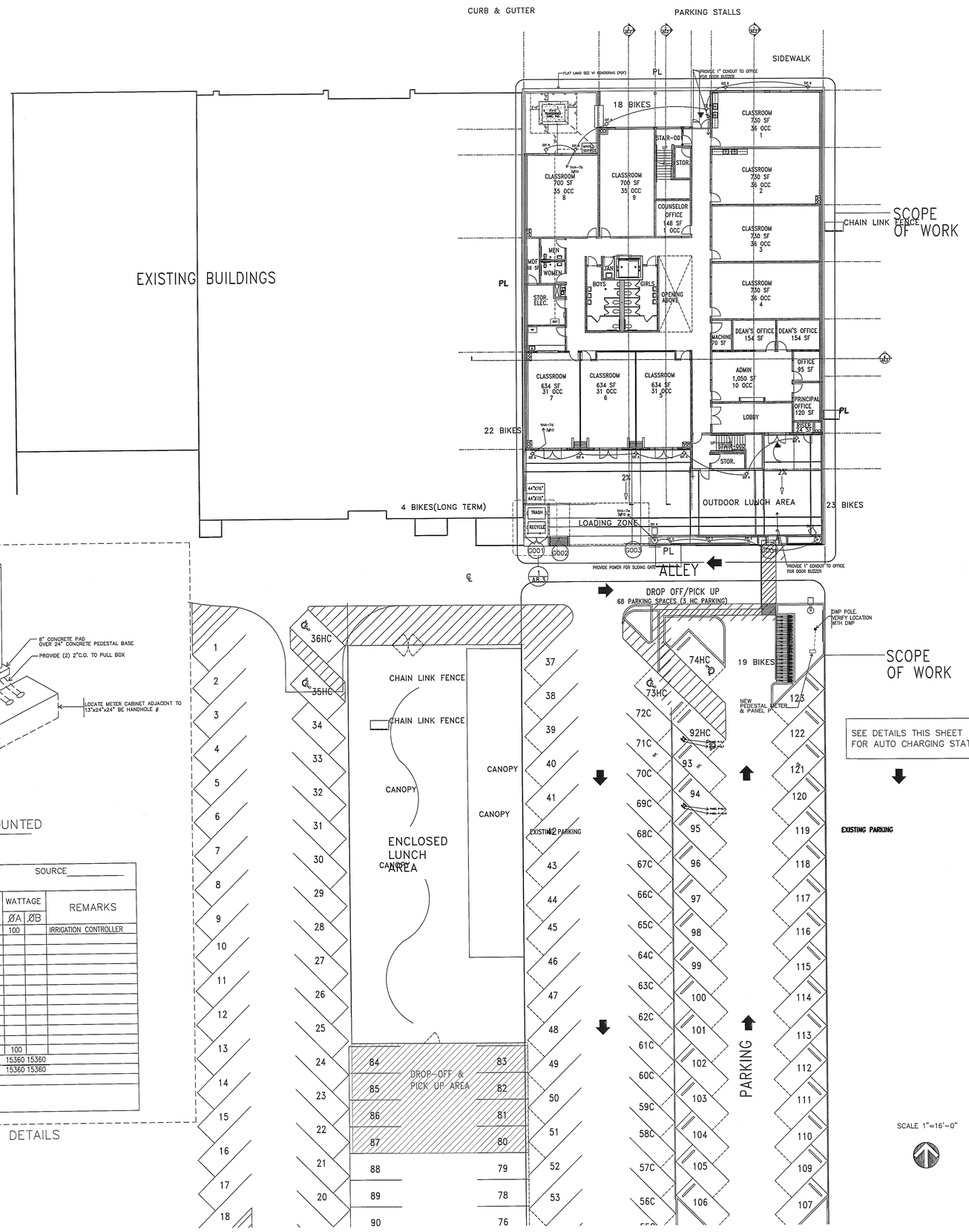
NOT TO SCALE

PANEL P — VOLTS: 120/240V,1Φ,3W — SOURCE
LOCATION PARKING LOT — MAIN: 200A MCB

REMARKS	WATTAGE ØA	WATTAGE ØB	LTG.	REC.	MIS.	CIR.	BKR.		BKR.	CIR.	MIS.	REC.	LTG.	WATTAGE ØA	WATTAGE ØB	REMARKS
CHARGING STATION #92	3840					1	1	50	20	2				100		IRRIGATION CONTROLLER
↓		3840				–	3	2		4						
CHARGING STATION #93	3840					1	5	50		6						
↓		3840				–	7	2		8						
CHARGING STATION #94	3840					1	9	50		10						
↓		3840				–	11	2		12						
CHARGING STATION #95	3840					1	13	50		14						
↓		3840				–	15	2		16						
							17			18						
							19			20						
							21			22						
							23			24						
	15360	15360												100		
														15360	15360	
														15360	15360	

DESIGN: CONN: 30,720VA 130A

PARKING CHARGING STATIONS – DETAILS



SITE LIGHTING LEGEND

EXT A	LED WALL MOUNTED LIGHT; BY WAC LIGHTING WP-LED335-50-WT
EXT B	LED WALL MOUNTED LIGHT; BY SHARPER LIGHTING 674-WP SERIES- 674-31"-WP-L3/830- ALP
EXT C	6-INCH RECESSED LED FIXTURE; BY COOPER LIGHTING EATON HALO COMMERCIAL- PD6-30-D010-PDM6A-835-61V-C
EXT D	PLANTER LIGHT LED LAMP FIXTURE BY COOPER LIGHTING LUMIERE, CAMBRIA 203-6LED5741-12-CS/NSS
EXT E	EXTERIOR POLE MOUNTED FIXTURE WITH 1-HEAD; BY DECO LIGHTING D824-LED-30/28W-50-UNV-LP-T5-PM-SL EXTERIOR POLE FOR FIXTURE WITH 1-HEAD; BY DECO LIGHTING DPAS-S-12-DM1-SLV
	DUAL CHARGING STATION

FRANCO ARCHITECTS INC.
12345 Ventura Blvd. H
Studio City, CA 91604
Tel 818 754-2030
Fax 818 754-2032
Architecture and Planning

MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE

PROJECT: MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA 91335
DRAWING TITLE: ENLARGED SITE PLAN
DRAWN BY:
ISSUE DATE: 2/17/2017
JOB NUMBER:
DRAWING SCALE: AS NOTED
APPROVED BY:
DRAWING NUMBER: E2.1

READY TO ISSUE BY JIMMY MEJIA (D) FEB 07 2018 Signature

REGISTERED PROFESSIONAL ENGINEER RAYMOND KIPUST E-10220 EXPIRES 9-30-18 ELECTRICAL STATE OF CALIFORNIA

KE KIPUST ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
12931 KILLION ST. SHERMAN OAKS, CA 91401
(818) 780-5354 FAX (818) 780-7036

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

POTENTIAL CHANGE ITEM
PCI032

TITLE: Bulletin 4 & 5 Adds **DATE:** 05/06/2019

PROJECT: Magnolia Science Academy **PROJECT NO.:** 18049

TO:

Magnolia Educational and Research Foundation
250 E. 1st St., 1500
Los Angeles, CA

We respectfully request your approval of the following change to the original scope of work:

DESCRIPTION:

This Potential Change Item (PCI) tracks costs associated with the added labor, materials, and equipment as required per changes issued on Bulletin 4 & 5 and additional RFI's/Sketches including: RFI #50, 52, #78, #147.

_Roofing Consultant: Additional Meetings & Additional Review due to changes in sketches/bulletin 4&5. $1,000
_OCCO Concrete (COR#5): Added concrete curb 1/A3.1 and change in curb design at drains A6.9 bulletin 4&5. $3,557
_Flashing changes (COR#5R1): dormer vents A6.8/2, added corrugated panels A6.9/3 installed by others, added trims for panels.$8,035
_Roofing (COR#6) adhering underlayment beneath the coping cap at the PE deck (300') $2,507
_Credit: Flashing(COR 3) deduct coping (24 GA) at CMU top due to RFI 052 ($1,427)
_Plumbing (COR #6) delta 3 addeddeck drain at RR #302, drain piping above room #214, #211. $5,011
_Electrical (COR #9) Add 5 wall mounted fixtures at south end of bldg, credit for trenching & wiring for ommitted light poles (but light poles & heads are already onsite= no credit)per RFI #78. $8,805
_Fire Extinguisher model change from base bid during submittal. $321
_Credit: Doors & Frames Credit for concealed overhead stops at openings of room #124, #221 per RFI #147. ($102)

This PCI excludes any items not specifically identified above including additional move-ins, engineering, testing and permits. It excludes any schedule associated impacts, general conditions, future changes caused by City review or inspections.

Vendor	Description	Amount
Architectural Testing, Inc.	Roofing Consultant: Additional Meetings & Additional Review	1,000.00
Armstrong & Aceves Company, Inc.	Roofing: COR 6 Underlayment @ PE Deck	2,507.00
Armstrong & Aceves Company, Inc.	Flashing & Sheet Metal: COR 3 Deduct 34GA Coping at CMU Wall	-1,427.00
Armstrong & Aceves Company, Inc.	Flashing& Sheet Metal: COR 5R1 Vents & Fasteners	8,035.00
GLOBAL SPECIALTIES DIRECT INC	Fire Extinguishers and Cabinets	321.00
Oltmans Concrete	Concrete: COR #005	3,557.00
P.V. & C. PLUMBING	Plumbing: COR 6 Added deck Drains	5,011.00
STAR HARDWARE, INC.	Metal Doors and Frames: RFI #147 Concealed OH Stop	-104.00
Safeway Bldg. Systems Inc. dba Safeway Electric	Electrical: COR 9 - RFI #78	8,805.00
	SUBTOTAL:	**27,705.00**
	Bond	227.00
	Gross Tax	36.00
	GL	269.00
	SDI	347.00
	Fee	1,417.00
	SUBTOTAL:	**2,296.00**
	TOTAL COST FOR THIS CHANGE ORDER REQUEST:	**30,001.00**

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

POTENTIAL CHANGE ITEM
PCI032

APPROVAL:
Oltmans Construction Co.

BY: Trevor Lawton
DATE:

APPROVAL:
Magnolia Educational and Research

BY:
DATE:

Franco Architects Inc.

Change Bulletin No.4 and No. 5

PROJECT: Magnolia Science Academy
DATE: January 15, 2019

ACTION TO BE TAKEN:

1.___ Proceed. This bulletin is intended to be a clarification or interpretation of the contract documents only. Failure to notify the Owner to the contrary in writing within ten days to the date hereof or before starting of the work, whichever comes first, shall constitute acceptance of this bulletin as involving no changes in the contract sum or contract time.

2. _x_ Submit estimate only broken down by item. You are not authorized to proceed with the work described herein. Estimates shall be submitted within ___10_ calendar days.

3. ___ Proceed. Work shall be done on:
___ Time and materials basis, price not to exceed _____.
___ Unit price (per contract)
___ Other

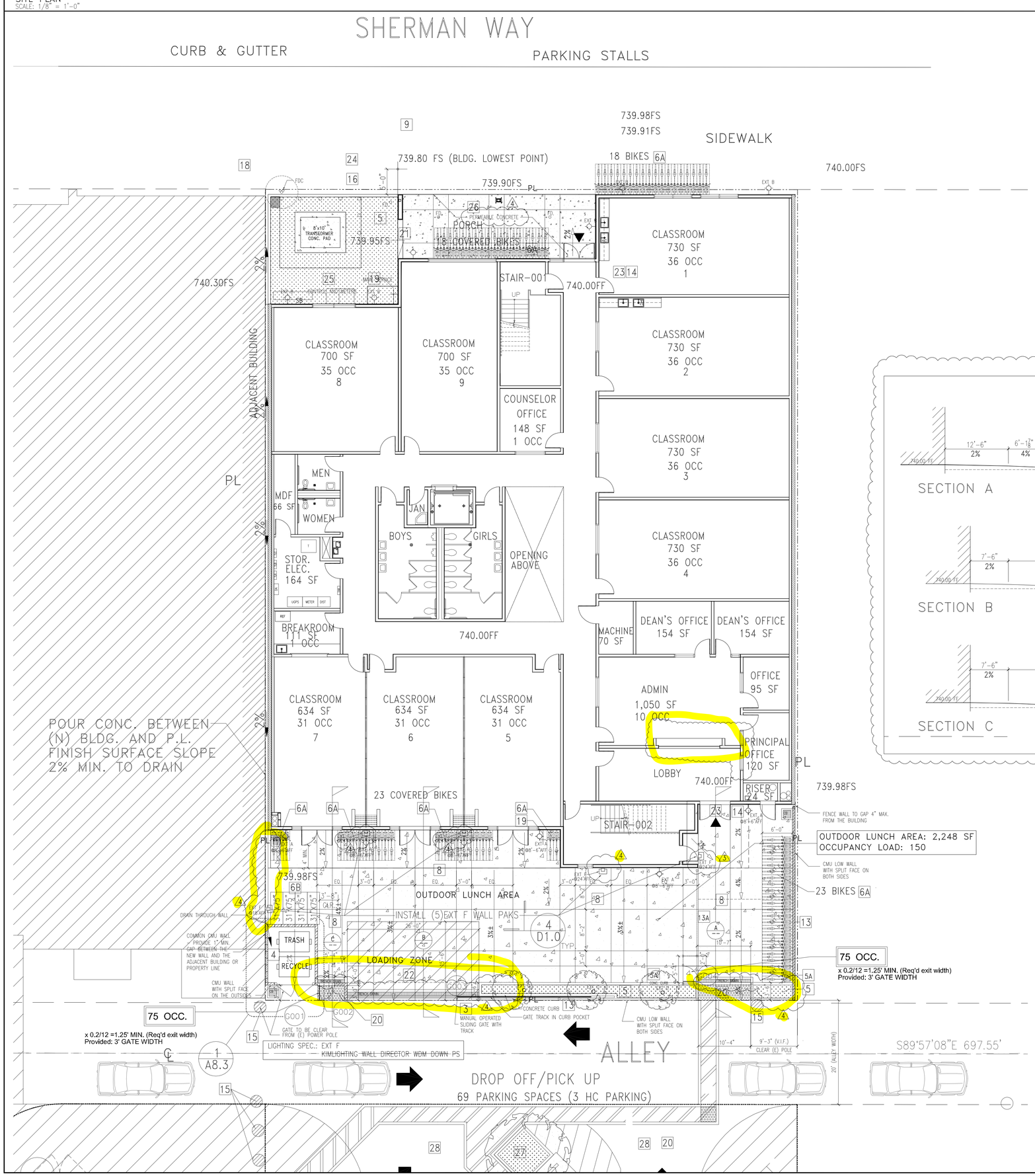
WORK DESCRIPTION:

The drawings have been revised to incorporate the following changes:
Bulletin #

ITEM NO.	Delta No.	DESCRIPTION	DET./SHEET NUMBER
1	2	Delta 1R is Bulletin 2	Coordination Bulletin 2
2	3	Delta 2 is Bulletin 3	Stand Pipe RTI
3	4	Site Plan Revision Incorporate SK-001R Incorporate SK-023 Incorporate SK-024	A0.5A
4	4	1st Floor Plan Revision Incorporate SK-015 Incorporate SK-015R	A1.1

5	4 & 5	Roof Deck Revision Parapet Bracing Final SK-035 SK-027 Superseded SK-033 Superseded	A3.1
6	4	Stair 2 Revision Plan Coordination Incorporate SK-021	A4.0
7	4	Plan Coordination Decorative metal frame Incorporate SK-013	A4.1
8	4	Tilt Up Wall Detail Incorporate SK-004 Incorporate SSK-003	A5.1
9	4	Stair 2 Ground Floor Incorporate SK-003RR Incorporate SK-028.2	A6.0
10	4	Low Wall Detail Incorporate SK-034	A6.2
11	4	Parapet Detail Incorporate SK-033	A6.8
12	5	Roof Deck Details	A6.9
13	4	Miscellaneous Structural Details Incorporate SSK-005	S9.0
14	4	Miscellaneous Structural Details	S9.1

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



SITE KEY NOTES

1. HC STRIPING, SEE SHEET A0.2 FIG. 11B-502.2, "NO PARKING" SIGN PAINTED IN 12" MIN. PER 11B-812.7.3
2. CONCRETE WHEEL STOP TYP. SEE DETAIL 1/D1.0
3. NEW 8'-0" HT. 26'-0" WIDE W.I. SLIDING GATE, SEE DOOR SCHEDULE
4. TRASH/RECYCLING ENCLOSURE W/ 6' HT CMU WALL, SEE A8.3
5. LANDSCAPE AREA. SEE LANDSCAPE PLANS
5A. 6" HT. CONC. CURB AT PLANTER
6A. PROVIDED 82 - SHORT TERM BIKE PARKING SPEC. PER CITY OF LOS ANGELES (SEE A0.6)
(41 COVERED) STANDARD PLAN NO. S-671-0
EACH BICYCLE PARKING SPACE SHOULD BE MIN. 6' IN LENGTH
SEE SPEC. ON SHEET A0.6
FINISH: GALVANIZED
6B. PROVIDED 4 - LONG-TERM BICYCLE PARKING SPACES (SEE A.6)
LOCKABLE, PERMANENTLY ANCHORED BIKE LOCKER FOR 2 BIKES
SPECS: MADRAX OR EQUAL
MODEL: MLN-2 BIKE LOCKER
COLOR: T.B.D.
7. DESIGNATED PARKING FOR ANY COMBINATION OF LOW-EMITTING, FUEL-EFFICIENT & CARPOOL/VAN POOL VEHICLES. PAINT "CLEAN AIR/VANPOOL/EV" WORDS WORDS ON GROUND AS SHOWN ON PLAN. THE LOWER EDGE OF THE LAST WORD ALIGNS WITH THE END OF THE STALL STRIPING AND IS VISIBLE BENEATH A PARKED VEHICLE. PAINT COLOR TO MATCH STALL STRIPING.
PROVIDE 6 PARKING SPACES FOR ANY COMBINATION OF LOW-EMITTING, FUEL-EFFICIENT,AND CARPOOL/VAN POOL VEHICLES, PER TABLE 5.106.5.2
7A. SURFACE MARKING "EV CHARGING ONLY". COMPLY WITH CBC 11B-812.9
7B. EV IDENTIFICATION SIGNS, SIGN IDENTIFYING VAN ACCESSIBLE EV SPACE SHALL CONTAIN THE WORDS "VAN ACCESSIBLE" PER 11B-812.8
8. SCORED UNCOLORED CONCRETE PAVING WITH NON-SKID FINISH, SEE DETAIL 4/D1.0
CONCRETE MATERIAL WITH INITIAL SOLAR REFLECTANCE OF AT LEAST 0.30
9. REPAIR ALL BROKEN, OFF-GRADE OR BAD ORDER CONCRETE CURB, GUTTER AND EXISTING SIDEWALK ALONG THE PROPERTY FRONTAGE.
10. DOUBLE STRIPING OF STALLS SHALL BE PER FIG.7 OF THE CITY OF LA BLDG. DEPT. STANDARDS
11. 3' H. BOLLARD WITH POWER OUTLETS FOR ELECTRICAL CHARGING STATIONS
TWO DEDICATED 208/240V 40 AMP, GROUNDED AC OUTLETS SHALL BE PROVIDED. SEE ELECTRICAL PLAN. A SEPARATE ELEC. PLAN CHECK IS REQUIRED TO VERIFY THE RACEWAY METHODS, WIRING SCHEMATICS AND ELECTRICAL CALCULATIONS FOR THE ELECTRICAL CHARGING SYSTEM. THE ELECTRICAL SYSTEM SHALL HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL ELECTRIC VEHICLES AT THEIR FULL RATED AMPERAGE.
THE SERVICE PANEL OR SUBPANELS SHALL HAVE SUFFICIENT CAPACITY TO ACCOMMODATE THE REQUIRED NUMBER OF DEDICATED 40 AMPERE MIN. BRANCH CIRCUITS FOR THE FUTURE INSTALLATION OF THE EVSC (5.106.5.3). PROVIDE 4 EV SPACES, PER TABLE 5. 106.5.3.3
12. PAINT LETTERS "VISITOR" ON GROUND.
13. 5' WROUGHT IRON FENCE ON TOP OF THE 3' MASONRY WALL W/PERFORATED PANEL, NO MORE THAN 50% OF THE FACE IS OPEN, SEE 9/A8.3
13A. 8' WROUGHT IRON FENCE W/PERFORATED PANEL, NO MORE THAN 50% OF THE FACE IS OPEN
14. PROVIDE DOOR BUZZER AND COMUNICATION DEVICE WITH CONDUIT TO MAIN ENTRANCE
15. EXISTING POWER POLE. V.I.F.
16. NEW PAD TRANSFORMER, SEE ELECTRICAL PLANS
17. CONC. CURB, SEE DETAIL 2/D1.0
18. FDC
19. INSTALL A HOSE BIB AT THIS LOCATION. REFER TO PLUMBING ENGINEERING PLANS FOR FURTHER INFO.
20. 3'-0" MIN. WIDE BAND OF DETECTABLE WARNING, W/TRUNCATED DOMES, DETAIL SEE 1/A0.2.5 OVER CONCRETE PAVING
21. LOW STUCCO WALL, SEE DETAIL 2/A6.5
22. 400 SF LOADING SPACE, 26'-0" X 15'-6"
23. ENTRANCE
24. STANDARD 31"H STEEL BOLLARD INSTALLED 60" O.C.
MFG: RELIANCE FOUNDRY CO. LTD.
MODEL: R7835, INSTALLED BY ANCHOR CASTING
COLOR: PAINT YELLOW
25. SWITCH BOARD, SEE ELECTRICAL PLAN
26. PERMEABLE CONCRETE, SEE CIVIL PLAN
27. TREE WELL WITH 6" CONC. CURB AROUND, SEE LANDSCAPE PLAN

RE: RFI-071

4 INCLUDES:
. PERMEABLE CONCRETE AT NORTH PORCH
. REMOVE 2 LIGHT POLE AND MOUNT SITE FLOOD LIGHTS ON THE BUILDING ELEVATIONS.
. ADD SITE SLOPE AT THE OUTDOOR AREA SOUTH OF THE BUILSING - SHOWN IN 3 SECTIONS.
. REMOVE THE WEST FENCE.
. SHOW TRENCH DRAIN PER CIVIL DESIGN.
. USE MANUAL SLIDING GATE AT THE ALLEY.

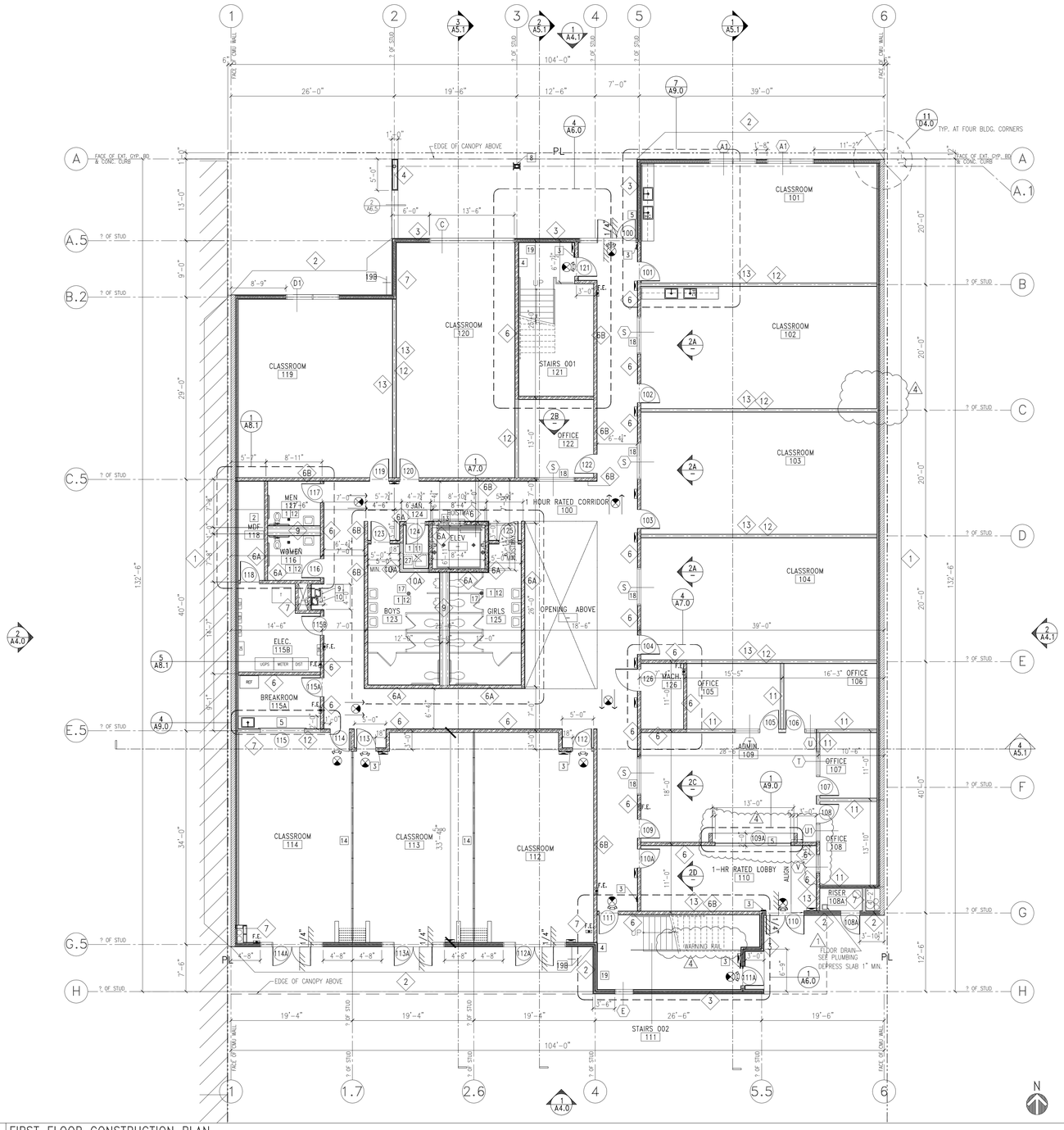
FRANCO ARCHITECTS INC.
12345 Ventura Blvd. H
Studio City, CA 91604
Tel 818 754-2030
Fax 818 754-2032
Architecture and Planning

MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	FD PLAN CHECK	10/31/2017
	FD PLAN CHECK	12/14/2017
4	SUMMARY OF SKETCHES	01/10/2019

LICENSED ARCHITECT
JOHANN D. IRMO
C27010
01/10/2019
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT: MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA91335
DRAWING TITLE: ENLARGED SITE CONSTRUCTION PLAN
DRAWN BY:
ISSUE DATE: 01/10/2019
JOB NUMBER:
DRAWING SCALE: AS NOTED
APPROVED BY:
DRAWING NUMBER: A0.5A



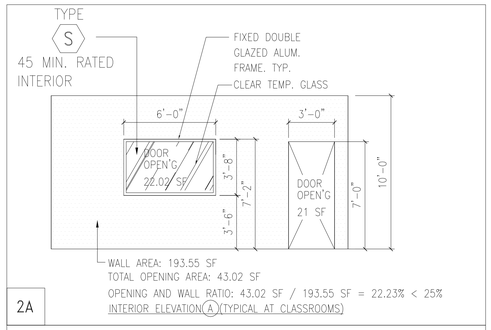
1 FIRST FLOOR CONSTRUCTION PLAN

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

1. THIS BUILDING MUST BE EQUIPPED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM, IN THE LOCATIONS DESCRIBED IN SEC. 903.2.1 THROUGH 903.2.12 (903.2)
2. FIRE SPRINKLERS SHALL BE PROVIDED WITH METAL ESCUTCHEONS THROUGH OUT.
3. SMOKE/FIRE DAMPERS SHALL BE INSTALLED IN CORRIDORS, FIRE BARRIERS AND FIRE PARTITIONS. SEE MECHANICAL PLANS FOR LOCATION OF SMOKE/FIRE DAMPERS.
4. PENETRATIONS OF FIRE RESISTANCE-RATED HORIZONTAL ASSEMBLIES SHALL COMPLY WITH SECTION 713.4. THROUGH PENETRATIONS SHALL COMPLY WITH SECTION 713.4.1.1.1 OR 713.4.1.1.2, OR AS NOTED BELOW:
   A. STEEL, FERROUS OR COPPER CONDUITS MAY PENETRATE A SINGLE FIRE-RESISTANT-RATED FLOOR ASSEMBLY WHEN THE ANNULAR SPACE IS PROTECTED WITH MATERIAL THAT MEETS ASTM E 119 OR UL 263.
   C. PENETRATIONS SHALL BE FIRE-STOPPED BY A SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479. THE SYSTEM SHALL HAVE AN F RATING AND T RATING OF NOT LESS THAT 1-HR, BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED.
   D. MEMBRANE PENETRATIONS BY LISTED ELECTRICAL OUTLET BOXES ARE PERMITTED PROVIDED SUCH BOXES HAVE BEEN TESTED FOR USE IN FIRE-RESISTANT-RATED ASSEMBLIES, AND THE SPACE BETWEEN THE CEILING MEMBRANE AND THE BOX DOES NOT EXCEED 1/8-IN. UNLESS LISTED OTHERWISE.
5. PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS SHALL COMPLY WITH SECTION 713.3. THROUGH PENETRATIONS SHALL COMPLY WITH SECTION 713.3.1.1 OR 713.3.1.2, OR AS NOTED BELOW:
   A. STEEL, FERROUS OR COPPER PIPES MAY PENETRATE FIRE-RESISTANCE-RATED WALLS, PROVIDED THE OPENING IS PROTECTED AS FOLLOWS:
      i. ITEM PENETRATING CONCRETE OR MASONRY WALLS IS A MAXIMUM 6-IN NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144SQ. IN. CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE IT IS INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE-RATING; OR
      ii. WHEN THE ANNULAR SPACE IS PROTECTED WITH MATERIAL THAT MEETS ASTM E 119 OR UL 263.
   B. PENETRATIONS SHALL BE FIRE-STOPPED BY A SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, AND SHALL HAVE AN F RATING OF NOTE LESS THAN THE REQUIRED FIRE-RESISTANCE-RATING OF THE WALL PENETRATED.
   C. MEMBRANE PENETRATIONS OF MAXIMUM TWO-HOUR FIRE-RESISTANCE-RATED WALLS BY STEEL ELECTRICAL BOXES ARE PERMITTED, PROVIDED THAT EACH DOES NOTE EXCEED 16SQ. IN. IN AREA AND THE TOTAL AREA OF SUCH OPNENINGS DOES NOT EXCEED 100 SQ. IN. FOR ANY 100 SQ. FT. OF WALL AREA, AND THE SPACE BETWEEN THE WALL MEMBRANE AND THE BOX DOES NOT EXCEED 1/8-IN. ADDITIONALLY, OUTLET BOXES ON OPPOSITE SIDES OF THE WALL SHALL BE SEPERATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24-IN.
   D. MEMBRANE PENETRATIONS BY LISTED ELECTRICAL BOXES OF ANY MATERIAL ARE PERMITTED PROVIDED SUCH BOXES HAVE BEEN TESTED FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES, AND THE SPACE BETWEEN THE WALL MEMBRANE AND THE BOX DOES NOT EXCEED 1/8-IN. UNLESS LISTED OTHERWISE. ADDITIONALLY, OUTLET BOXES ON OPPOSITE SIDES OF THE WALL SHALL BE SEPERATED BY THE HORIZONTAL DISTANCE SPECIFIED IN THE LISTING OF THE BOXES.
6. EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.
7. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES-WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.
8. AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWNSTREAM SIDE OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING. (PER ORDINANCE 170,158) (INCLUDES COMMERCIAL ADDITIONS AND TI WORK OVER $10,000.) SEPARATE PLUMING PERMIT IS REQUIRED.
9. PROVIDE ULTRA-LOW FLUSH WATER CLOSETS FOR ALL NEW CONSTRUCTION. EXISTING SHOWER HEADS AND TOILETS MUST BE ADAPTED FOR LOW WATER CONSUMPTION.
10. FIRE BLOCKING MUST BE PROVIDED IN ACCORDANCE W/SEC. 718.2 AT THE FOLLOWING LOCATIONS:
    A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS.
    B. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT 10 FOOT INTERVALS ALONG THE LENGTH OF THE WALL.
    C. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICLE AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
    D. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALL UNDER THE STAIRS IS UNFINISHED.
    E. IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, WITH NONCOMBUSTIBLE MATERIALS.

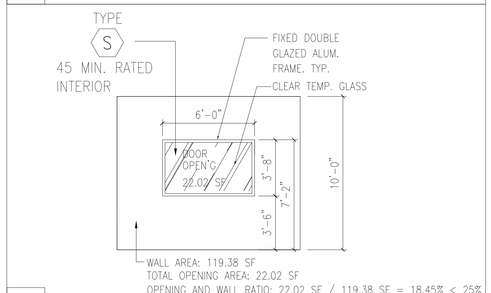
NOTE:
1. ALL STUD WALL, INTERIOR SIDE ONLY, SHALL BE PLAINED OR SHIMMED AS REQUIRED PRIOR TO DRYWALL INSTALLATION TO ASSURE A LEVEL SURFACE WITHOUT DIPS AND BOWS. DRYWALL SUBCONTRACTOR SHALL INSPECT AND APPROVE FRAMED PARTITIONS PRIOR TO INSTALLING DRYWALL WITH THE UNDERSTANDING THAT A LEVEL 5 FINISH IS REQUIRED. ALL DIPS AND BOWS OCCURRING AFTER DRYWALL IS INSTALLED WILL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
2. MAXIMUM CROSS SLOPE FOR WALKWAYS, HC DROP OFF AND RAMPS NOT EXCEED MORE THAN 2%.

BUILDING DEPARTMENT NOTES | 5



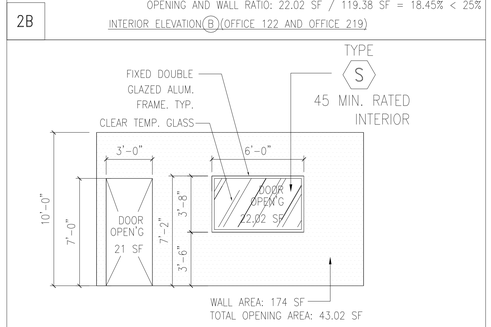
WALL AREA: 193.55 SF
TOTAL OPENING AREA: 43.02 SF
OPENING AND WALL RATIO: 43.02 SF / 193.55 SF = 22.23% < 25%

2A INTERIOR ELEVATION (A) (TYPICAL AT CLASSROOMS)



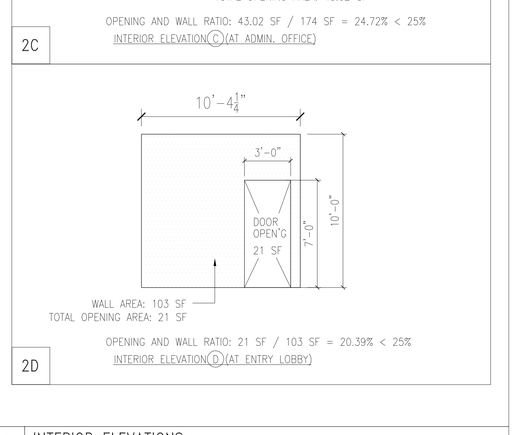
WALL AREA: 119.38 SF
TOTAL OPENING AREA: 22.02 SF
OPENING AND WALL RATIO: 22.02 SF / 119.38 SF = 18.45% < 25%

2B INTERIOR ELEVATION (B) (OFFICE 122 AND OFFICE 219)



WALL AREA: 174 SF
TOTAL OPENING AREA: 43.02 SF
OPENING AND WALL RATIO: 43.02 SF / 174 SF = 24.72% < 25%

2C INTERIOR ELEVATION (C) (AT ADMIN. OFFICE)



WALL AREA: 103 SF
TOTAL OPENING AREA: 21 SF
OPENING AND WALL RATIO: 21 SF / 103 SF = 20.39% < 25%

2D INTERIOR ELEVATION (D) (AT ENTRY LOBBY)

2 INTERIOR ELEVATIONS

SCALE: 1/4" = 1'-0"

1. PROVIDE APPROVED PANIC HARDWARE ON REQUIRED EXIT DOORS. TITLE 24, SECTION 1008.1.10.
2. THE INSPECTION, HYDROSTATIC TEST AND FLUSHING OF THE UNDERGROUND FIRE PROTECTION PIPING SHALL BE WITNESSED BY AN AUTHORIZED FIRE DEPARTMENT REPRESENTATIVE. NO UNDERGROUND PIPING OR THRUST BLOCKS SHALL BE COVERED BY EARTH OR HIDDEN FROM VIEW UNTIL THE FIRE DEPARTMENT REPRESENTATIVE HAS BEEN NOTIFIED AND GIVEN NOT LESS THAN 48 HOURS IN WHICH TO INSPECT SUCH INSTALLATIONS. FIRE CODE 901.5, COUNTY OF LOS ANGELES FIRE DEPARTMENT REGULATION 7.
3. ELEVATORS, ESCALATORS AND MOVING WALKS SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN BUILDING CODE CHAPTER 30.
4. WALLS AND SOFFITS WITHIN ENCLOSED USABLE SPACES UNDER ENCLOSED AND UNENCLOSED STAIRWAYS SHALL BE PROTECTED BY 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION OF THE FIRE-RESISTANCE RATING OF THE STAIRWAY ENCLOSURE, WHICHEVER IS GREATER. BUILDING CODE 1009.6.3.
5. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN LOCATIONS AS REQUIRED BY FIRE CODE 906 AND FIRE DEPT FIELD INSPECTOR. .

5A. PROVIDE PORTABLE FIRE DISTINGUISHER W/A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75' TO ALL PORTION OF THE BUILDING ON EACH FLOOR, ALSO DURING CONSTRUCTION (LAMC 57.140)

5B. PROVIDE PORTABLE FIRE DISTINGUISHER W/A RATING NOT LESS THAN 10BC FOR KITCHEN, ELEC, MECHANICAL ROOM

5C. PROVIDE PORTABLE FIRE DISTINGUISHER W/A RATING NOT LESS THAN 20-B, LOCATED NOT LESS THAN 10', NOR MORE THAN 30' FROM ANY FLAMMABLE LIQUID STORAGE AREA OUTSIDE OF A HAZARDOUS MATERIAL ROOM, OR ADJACENT TO SPRAY BOOTH.

6. PROVIDE AN APPROVED FIRE ALARM SYSTEM PER TITLE 24, FIRE CODE 907.2.3, 907.2.23 AND PROVIDE OCCUPANT NOTIFICATION IN ACCORDANCE W/SEC. 907.5
7. THIS BUILDING MUST BE EQUIPPED W/AUTOMATIC FIRE EXTINGUISHING SYSTEM, COMPLYING W/NFPA-13/NFPA-13R THE SPRINKLER SYSTEM SHALL BE APPROVED BY PLUMING DIV. PRIOR TO INSTALLATION. 12.21A17(D) (903.2)
8. THE FIRE SPRINKLER SYSTEM SHALL BE CALCULATED PER PAMPHLET #13.
9. A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED IN GROUP A OCCUPANCIES HAVING AN OCCUPANT LOAD OF 300 OR MORE. BUILDING COD 907.2.1. SUBMIT PLANS TO THE FIRE ALARM PLAN CHECK UNIT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. FIRE CODE 907.2.1.
10. MEANS OF EGRESS ILLUMINATION SHALL BE PROVIDED PER SEC. 1008, IN ADDITION TO OTHER CODE REQUIREMENT.

FIRE DEPARTMENT NOTES | 4

1. EXTERIOR ENTRIES AND/OR OPENINGS SUBJECT TO FOOT TRAFFIC OR WIND-DRIVEN RAIN TO PREVENT WATER INTRUSION IN BUILDINGS. (CAL GREEN 5.407.2.2)
2. COMPOSITE WOOD PRODUCTS (HARDWOOD PLYWOOD, PARTICLE BOARD, AND MDF COMPOSITE WOOD) INSTALLED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET OR EXCEED THE STANDARDS OUTLINED IN TABLE 5.504.4.5. (CAL GREEN 5.504.4.5)
3. THIS BUILDING IS EQUIPED WITH WATER-CONSERVING FIXTURES MEETING THE CRITERIA ESTABLISHED IN SECTION CAL GREEN 5.303.2 OR 5.303.3. SEE PLUMBING PLANS FOR MORE INFORMATION.
4. PROVIDE DOCUMENTATION TO JUSTIFY THAT MATERIALS USED HAVE A POST-CONSUMER OR PRE-CONSUMER RECYCLED CONTENT VALUE (RCV) OF AT LEAST 10% OF THE TOTAL VALUE, BASED ON ESTIMATED COST OF MATERIALS ON THE PROJECT. (A5.405.4)
5. PROVIDE THERMAL INSULATION THAT COMPLIES WITH THE VOC EMISSION LIMITS DEFINED IN THE CHPS LOW-EMITTING MATERIALS LIST. (A5.504.4.8)
6. THE USE AND INSTALLATION OF WATER SOFTENERS THAT DISCHARGE TO THE COMMUNITY SEWER SYSTEM SHALL BE LIMITED OR PROHIBITED BY LOCAL AGENCIES IF CERTAIN CONDITIONS ARE MET. (CA GREEN A5.303.3.5)
7. COMPARED TO OTHER PRODUCTS IN A GIVEN PRODUCT CATEGORY, SELECT BUILDING MATERIALS OR PRODUCTS PERMANENT INSTALLATION ON THE PROJECT THAT HAVE BEEN HARVESTED OR MANUFACTURED IN CALIFORNIA OR WITHIN 500 MILES OF THE PROJECT SITE.
   A. FOR THOSE MATERIALS LOCALLY MANUFACTURED, SELECT MATERIALS MANUFACTURED USING LOW EMBODIED ENERGY OR THOSE THAT WILL RESULT IN NET ENERGY SAVINGS OVER THEIR USEFUL LIFE.
   B. REGIONAL MATERIALS SHALL MAKE UP AT LEAST 10 PERCENT, BASED ON COST, OF TOTAL MATERIALS VALUE.
   C. IF REGIONAL MATERIAL MAKE UP ONLY PART OF A PRODUCT, THEIR VALUES ARE CALCULATED AS PERCENTAGES BASED ON WEIGHT.
   D. PROVIDE DOCUMENTATION OF THE ORIGIN, NET PROJECTED ENERGY SAVINGS AND VALUE OF REGIONAL MATERIALS.
   (CA GREEN A5.405.1)
8. OBTAIN APPROVAL FROM THE MECHANICAL SECTION FOR COMPLIANCE WITH SECTION 5.303 - INDOOR WATER USE.
9. INTERIOR WALL AND FLOOR-CEILING ASSEMBLIES SEPARATING ADJACENT TENANT SPACES AND TENANT AND PUBLIC PLACES SHALL HAVE AN STC OF AT LEAST 40. (5.507.4.3)
10. PROVIDE APPROVAL FROM MECHANICAL SECTION FOR A 30% REDUCTION IN INDOOR POTABLE WATER USEAGE. (A5.303.2.3.1)

CA GREEN CODE NOTES | 3

SYMBOLS LEGEND

- X" — FINISH FLOOR ELEVATION CHANGE
- F.E. — SEMI-RECESSED FIRE EXTINGUISHERS SEE SPECIFICATIONS AND DETAIL (7 D5.0) (8 D5.0)
- 300A — DOOR NUMBER; DOOR KEY SEE DOOR SCHEDULE A10.0
- X — WINDOW KEY SEE WINDOW SCHEDULE A10.1; WINDOW TYPE

WALL LEGEND

EXTERIOR WALLS 2 HOUR FIRE RATED

PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3

1. FURRING WALL@ CMU WALL-5/8" TYPE 'X' GYP ONE SIDE, EXTERIOR PLASTER TROWL APPLIED. SEE DETAIL (1 D2.0) AND STRUCT'L DETAIL — EXT. SIDE
2. 2-HR EXTERIOR STUCCO WALL WITH R-19 INSULATION, EXTERIOR PLYWOOD, FIBERGLASS MAT GYP SHEATHING, EXT. SIDE; EXTERIOR PLASTER TROWEL APPLIED, STRUCTURAL PLYWOOD, 2-LAYER GYP. BD INTERIOR SIDE; SEE DETAIL (4A D2.0) (5A D2.0) AND STRUCT'L DETAIL PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
3. 2-HR EXTERIOR STUCCO WALL WITH R-19 INSULATION, EXTERIOR PLYWOOD, FIBERGLASS MAT GYP SHEATHING, EXT. SIDE; EXTERIOR PLASTER TROWEL APPLIED, 2-LAYER GYP. BD INTERIOR SIDE; SEE DETAIL (4 D2.0) (5 D2.0) AND STRUCT'L DETAIL PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
3A. SAME AS 3 EXCEPT WITH CERAMIC TILE INTERIOR SIDE. EXT. SIDE (6 D2.0) PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
4. 2-HR EXTERIOR STUCCO WALL @ NORTH CANOPY, SEE DETAIL (3 D2.0) PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3

INTERIOR WALLS 1 HOUR FIRE RATED PARTITIONS

WALLS IN CORRIDORS ARE FIRE BARRIER/ ATRIUM SEPARATION WALLS

6. 1-HR FIRE-RATED BARRIER/DEMISING SHEAR WALL WITH PLYWOOD ONE (CORRIDOR) SIDE. SEE DETAIL (8 D2.0) AND SEE STRUCT'L
6A. 1-HR FIRE-RATED BARRIER AT CORRIDOR WITH STRUCT. PLYWOOD AND 5/8" TYPE "X" GYP. BD. ONE SIDE (CORRIDOR) AND 5/8" WATER RESISTANT GYP. BD. ON RESTROOM/JANITOR SIDE, SEE DETAIL (8A D2.0)
6B. 1-HR FIRE-RATED BARRIER/DEMISING SHEAR WALL WITH PLYWOOD BOTH SIDES. SEE DETAIL (8B D2.0) AND SEE STRUCT'L
7. 1-HR FIRE-RATED SHAFT WALL, SEE DETAIL (9 D2.0) AND STRUCTURAL

INTERIOR WALLS NON-RATED PARTITIONS

9. WOOD STUD DOUBLE PLUMBING WALL 5/8" TYPE X WATER RESISTANT GREEN GYP BD. EXPOSED SIDE, WITH SOUND INSULATION, SEE DETAIL (11 D2.0)
10. STUD WALL AT WET AREA WITH 5/8" WATER RESISTANT GYP. BD. ON EXPOSED SIDE ONLY. SEE DET. (1 D3.0)
10A. STUD WALL AT WET AREA WOOD STUD WALL FULL HEIGHT AND SOUND INSULATION WITH 5/8" WATER RESISTANT GYP. BD. BOTHE SIDES. SEE DETAIL (1A D3.0)
11. WOOD STUD WALL FULL HEIGHT WITH 5/8" GYP. BOARD BOTH SIDES WITH SOUND INSULATION. (10 D2.0)
12. DEMISING SHEAR WALL, NON-RATED WITH PLYWOOD ON ONE OR BOTH SIDES. SEE STRUCT'L AND (11 D2.0)
13. 12' LONG 6X6 BLOCKING REQUIRED AT TV TRACKING- HEIGHT TBD.

CONSTRUCTION PLAN NOTES

1. PROVIDE PRESSURE TREATED FLOOR SILL PLATE ON ALL BATHROOM WALLS, JANITOR'S CLOSET WALLS AND EXTERIOR PERIMETER WALLS ON GROUND FLOOR.
2. PROVIDE 3/4" FIRE TREATED PLYWOOD ON ALL WALLS IN MDF ROOM.
3. 1011.4 RAISED CHARACTER AND BRAILLE EXIT SIGNS. TACTILE EXIT SIGNS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
   1. EACH GRADE-LEVEL EXTERIOR EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD, "EXIT"
   2. EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:
      - 2.1. "EXIT STAIR DOWN"
      - 2.2. "EXIT RAMP DOWN"
      - 2.3. "EXIT STAIR UP"
      - 2.4. "EXIT RAMP UP"
   3. EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE."
   4. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE."
   5. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS, "TO EXIT" RAISED CHARACTER AND BRAILLE EXIT SIGNS SHALL COMPLY WITH SECTION 1117B.5.1 ITEM 1 SECTIONS 11B-703.1, 11B-703.2, 11B-703.3 AND 11B-703.5.
4. PROVIDE TACTILE STAIR LEVEL IDENTIFICATION SIGN THAT COMPLIES WITH 1022.9, AT EACH FLOOR LEVEL LANDING.
5. PROVIDE FIRE RATED MOTORIZED ROLL-UP DOOR W/ FUSIBLE LINK. SEE DOOR SCHEDULE.
6. ROOF DRAINS. FOR ROOF DRAINS/OVERFLOW DRAINS EXITING THE BUILDING, SEE DETAIL #5/D5.0.
7. PROPOSED LOCATION FOR FIRE SPRINKLER RISER/VALVE. PROVIDE ACCESS PANEL AS REQUIRED.
8. STEEL COLUMN SEE 1/A6.5
9. HYDRO-STATION DRINKING FOUNTAIN, SEE PLUMBING PLAN FOR ADDITIONAL INFORMATION
10. DRINKING FOUNTAIN ALCOVE. ALCOVE CEILING HEIGHT @ 7'-0" AFF. SEE DTL 5/A8.0. INSTALL CERAMIC TILES 4'-0" A.F.F. AT ALL WALLS OF ALCOVE.
11. PROVIDE WATER RESISTANT GYP ON JAN. CLOSET SIDE.
12. ALL RESTROOM FLOOR TO HAVE A 1/8" SLOPE TO FLOOR DRAIN. SEE PLUMBING ENG. DWGS. FOR FLOOR DRAIN LOCATIONS.
13. INSTALL SMOKE GUARD. SEE DETAIL 9/D5.0.
14. FOLDING WALL: HUFCOR ELECTRIC CONTINUOUSLY-HINGED PANEL, SEE D7.0
15. PROVIDE DOOR BUZZER AND COMMUNICATION DEVICE WITH CONDUIT TO MAIN GATE ENTRANCE
16. SHAFT TO HAVE A 1-HR FIRE RATING. INSTALL (2) LAYERS OF 5/8" TYPE "X" GYP. BD. TO EXPOSED SIDE OF FRAMING. INSTALL TYPE "X" WATER RESISTANT GYP. BD. AT RESTROOM/JANITOR CLOSET SIDE. PROVIDE FIRE-RATED DAMPERS WHERE DUCTS PENETRATE THE FIRE-RATED WALLS. USE 1" TYPE S DRYWALL SCREWS 8" O.C. TO VERTICAL EDGES. SEE GA FILE NO. WP 1200.
17. PROVIDE FLOOR DRAIN, SEE PLUMBING PLAN. TILED FLOOR 1% SLOPE TO DRAIN
18. 45 MIN. GLAZING/DOOR, NOT EXCEED 25% OF THE COMMON WALL (716.6.7.2) SEE 2/- FOR INTERIOR ELEVATIONS.
19. INSTALL CLASS 1 STANDPIPE
19A. CANOPY
19B. INSTALL A HOSE BIB AT THIS LOCATION. REFER TO PLUMBING ENGINEERING PLANS FOR FURTHER INFO.
20 — 26. SEE A3.1
27. WATER HEATER SHELVE TO BE MOUNTED 6'-8" MIN. A.F.F. OVER JANITOR'S FLOOR SINK FOR REQUIRED MIN. HEAD CLEARANCE.

LEGEND AND NOTES | 2

SEE A2.1 FOR GENERAL NOTES

4 CHNAGES:
. ENTRY INTERIOR WINDOWS
. STAIR-002 REPLACE WALL WITH RAIL
. REMOVE SHAFT AT LINE 6 & C

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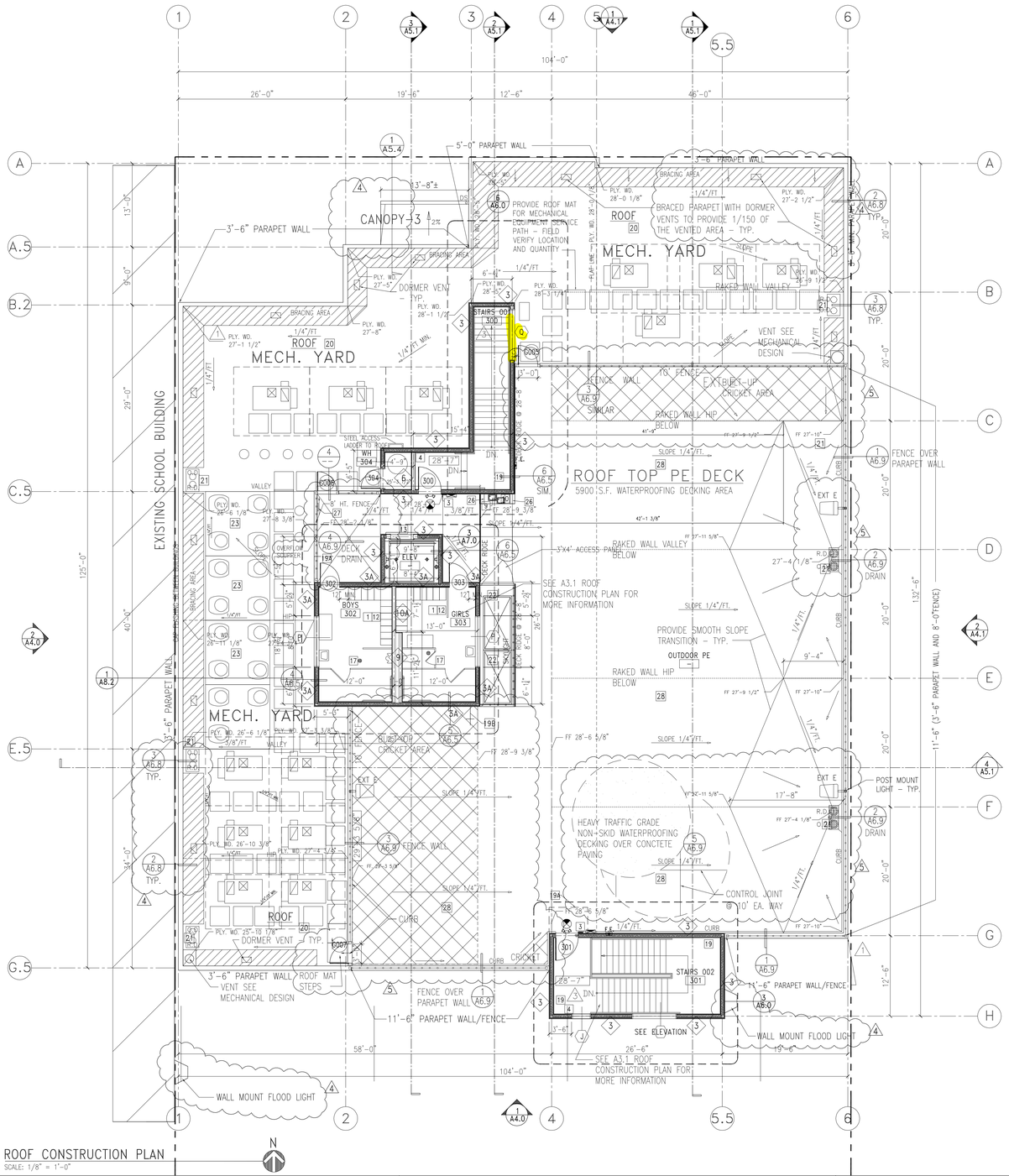
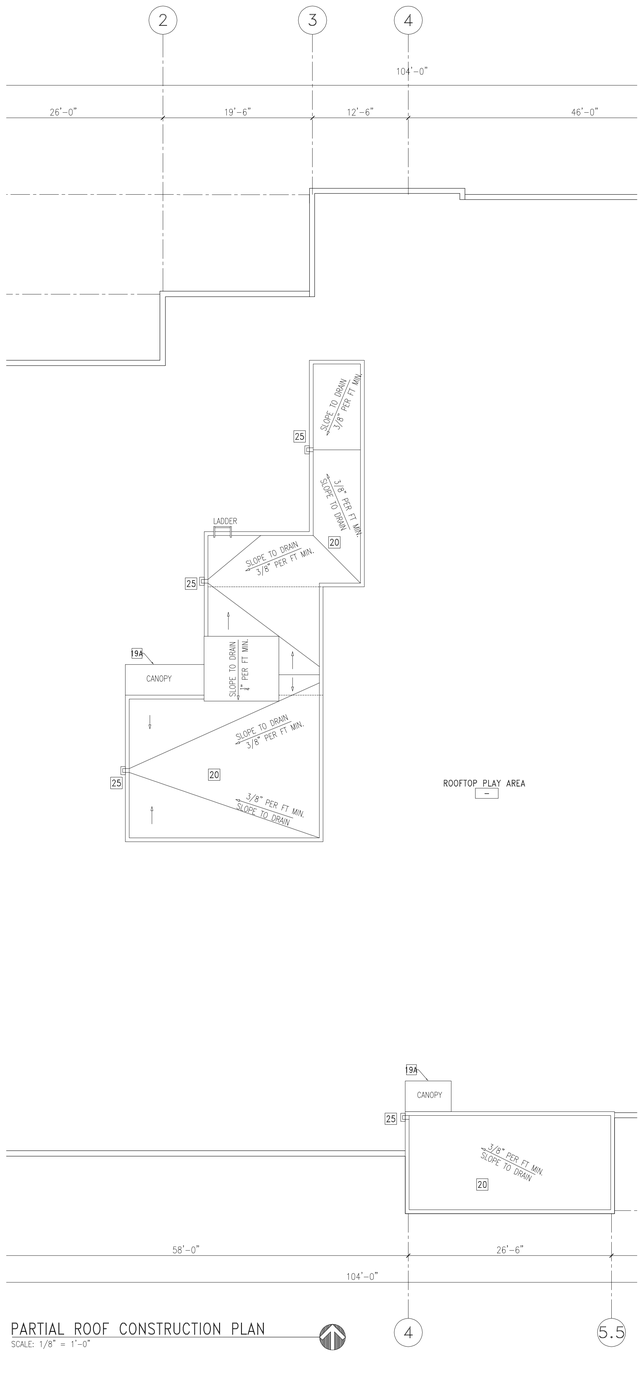
REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	TO PLAN CHECK	10/31/2017
	TO PLAN CHECK	12/14/2017
3	REMOVE PIPE AND STAND PIPE	12/02/2018
4	SUMMARY OF SKETCHES	01/10/2019

LICENSED ARCHITECT JOHANN D. WANG C27010 REGISTERED 4/30/2019 STATE OF CALIFORNIA

PROJECT: MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA91335
DRAWING TITLE: FIRST FLOOR CONSTRUCTION PLAN
DRAWN BY:
ISSUE DATE: 01/10/2019
JOB NUMBER:
DRAWING SCALE: AS NOTED
APPROVED BY:
DRAWING NUMBER: A1.1





SYMBOLS LEGEND

- FINISH FLOOR ELEVATION CHANGE
- SEMI-RECESSED FIRE EXTINGUISHERS SEE SPECIFICATIONS AND DETAIL 7/D5.0 8/D5.0
- 300A — DOOR NUMBER; DOOR KEY SEE DOOR SCHEDULE A10.0
- X — WINDOW KEY SEE WINDOW SCHEDULE A10.1; WINDOW TYPE
- 48" x 96" SKYLIGHT; DUAL WALL, WHITE ACRYLIC DOME SKYLIGHT (LARR #2708)
- A/C UNIT, SEE MECH. PLAN

WALL LEGEND

EXTERIOR WALLS 2 HOUR FIRE RATED

PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3

1. FURRING WALL@ CMU WALL-5/8" TYPE 'X' GYP ONE SIDE, EXTERIOR PLASTER TROWL APPLIED. SEE DETAIL 1/D2.0 AND STRUCT'L DETAIL — EXT. SIDE
2. 2-HR EXTERIOR STUCCO WALL WITH R-19 INSULATION, EXTERIOR PLYWOOD, FIBERGLASS MAT GYP SHEATHING, EXTERIOR PLASTER TROWEL APPLIED, STRUCTURAL PLYWOOD, 2-LAYER GYP. BD INTERIOR SIDE; SEE DETAIL 4A/D2.0 5A/D2.0 AND STRUCT'L DETAIL. PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3 — EXT. SIDE
3. 2-HR EXTERIOR STUCCO WALL WITH R-19 INSULATION, EXTERIOR PLYWOOD, FIBERGLASS MAT GYP SHEATHING, EXTERIOR PLASTER TROWEL APPLIED, 2-LAYER GYP. BD INTERIOR SIDE; SEE DETAIL 4/D2.0 5/D2.0 AND STRUCT'L DETAIL PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3 — EXT. SIDE
3A. SAME AS 3 EXCEPT WITH CERAMIC TILE INTERIOR SIDE. 6/D2.0 — EXT. SIDE. PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
4. 2-HR EXTERIOR STUCCO WALL @ NORTH CANOPY, SEE DETAIL 3/D2.0. PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3

INTERIOR WALLS 1 HOUR FIRE RATED PARTITIONS

6. 1-HR FIRE-RATED PARTITION/DEMISING SHEAR WALL WITH PLYWOOD ONE (CORRIDOR) SIDE. SEE DETAIL 8/D2.0 AND SEE STRUCT'L
6A. 1-HR FIRE-RATED PARTITION AT CORRIDOR WITH STRUCT. PLYWOOD AND 5/8" TYPE "X" GYP. BD. ONE SIDE (CORRIDOR) AND 5/8" WATER RESISTANT GYP. BD. ON RESTROOM/JANITOR SIDE, SEE DETAIL 8A/D2.0
6B. 1-HR FIRE-RATED PARTITION/DEMISING SHEAR WALL WITH PLYWOOD BOTH SIDES. SEE DETAIL 8B/D2.0 AND SEE STRUCT'L
7. 1-HR FIRE-RATED SHAFT WALL, SEE DETAIL 9/D2.0 AND STRUCTURAL

INTERIOR WALLS NON-RATED PARTITIONS

9. WOOD STUD DOUBLE PLUMBING WALL 5/8" TYPE X WATER RESISTANT GREEN GYP BD. EXPOSED SIDE, WITH SOUND INSULATION, SEE DETAIL 11/D2.0
10. STUD WALL AT WET AREA WITH 5/8" WATER RESISTANT GYP. BD. ON EXPOSED SIDE ONLY. SEE DET. 1/D3.0
10A. STUD WALL AT WET AREA WOOD STUD WALL FULL HEIGHT AND SOUND INSULATION WITH 5/8" WATER RESISTANT GYP. BD. BOTHE SIDES. SEE DETAIL 1A/D3.0
11. WOOD STUD WALL FULL HEIGHT WITH 5/8" GYP. BOARD BOTH SIDES WITH SOUND INSULATION. 10/D2.0
12. DEMISING SHEAR WALL, NON-RATED WITH PLYWOOD ON ONE OR BOTH SIDES. SEE STRUCT'L AND 11/D2.0

CONSTRUCTION PLAN NOTES

1—19A SEE A1.1
19B INSTALL A HOSE BIB AT THIS LOCATION. REFER TO PLUMBING ENGINEERING PLANS FOR FURTHER INFO.
20 INSTALL NEW FIRE CLASS 'A', 5-PLY, BUILT-UP ROOF. SUPPLY A 20 YEAR MINIMUM WARRANTY 2/D3.0
21 ROOF DRAINS/OVERFLOW DRAINS. FOR ROOF DRAINS/OVERFLOW DRAINS EXITING THE BUILDING, SEE DETAIL 5/D5.0 14/D1.0 15/D1.0
22 INSTALL NEW 48" x 96" SKYLIGHT AS SHOWN. WHITE ACRYLIC DOME (LARR# 2708) SKYLIGHTS SHALL BE DUAL GLAZED SELF FLASHING MOUNTED LEVEL ON NEW WOOD CURBS. SKYLIGHTS SET AT AN ANGLE OF LESS THAN 45 DEGREES FROM THE HORIZONTAL PLANE SHALL BE MOUNTED AT LEAST 4" ABOVE THE PLANE OF THE ROOF ON A CURB CONSTRUCTED AS REQUIRED FOR THE FRAME. GLASS SKYLIGHTS SHALL COMPLY WITH SEC. 2405. PLASTIC SKYLIGHTS SHALL COMPLY WITH SEC. 2610. SEE 17/D1.0
23 MECHANICAL PLATFORM-RAISED 12", SLOPE 1/4" PER FT. TO DRAIN, SEE MECHANICAL -TYP.
24 3 1/2" MIN. CONC. SLOPE 1% MIN. OVER W.P. SLOPE 2% MIN. O/ROOF DECKING
25 SCUPPER DRAIN AND OVERFLOW 5/A6.8
26 LOW WALL-ALCOVE WITH MIN. 7'-0" CEILING
27 ADD DIRECTION SIGN: "ROOF ACCESS LADDER"
28 CONCRETE ROOF DECK, SEE DETAIL 5/A6.9

ROOF CONSTRUCTION NOTES:

1. ROOF TO BE CONSTRUCTED AS A FIVE PLY CLASS A FIRE-RATED BUILT-UP ROOF ASSEMBLY.
2. ROOF ASSEMBLY TO BE LISTED BY AN APPROVED TESTING AGENCY.
3. ROOF TO CARRY NDL UNLIMITED 20 YEAR WARRANTY.
4. INSTALL BUILT-UP ROOFING MEMBRANE SYSTEM ACCORDING TO ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPLICABLE RECOMMENDATIONS OF ARMA/NRCA'S "QUALITY CONTROL GUIDELINES FOR THE APPLICATION OF BUILT-UP ROOFING."
5. INSTALL FOUR PLY SHEETS STARTING AT LOW POINT OF ROOFING SYSTEM. ALIGN PLY SHEETS WITHOUT STRETCHING. SHINGLE SIDE LAPS OF PLY SHEETS UNIFORMLY TO ACHIEVE REQUIRED NUMBER OF PLIES THROUGHOUT THICKNESS OF ROOFING MEMBRANE. SHINGLE IN DIRECTION TO SHED WATER. EXTEND PLY SHEETS OVER AND TERMINATE BEYOND CANTS.
6. GROUP E OCCUPANCIES SHALL BE PROVIDED WITH A FIRE RETARDANT ROOF IN ACCORDANCE WITH BUILDING CODE 1505 AND TABLE 1505.1.
7. SIZE THE ROOF DRAINS AND OVERFLOW DRAINS ACCORDING TO THE CHAPTER 11 OF THE LAPC (1503.4) SEE PLUMBING PLAN
8. ROOF DRAIN AND OVERFLOW DRAIN MUST BE INDEPENDENT LINES TO STORM DRAIN SYSTEM. SEE PLUMBING PLAN FOR ROOF DRAIN DIAGRAM
9. ROOF DRAINAGE IS NOT PERMITTED TO FLOW OVER PUBLIC PROPERTY. **REFER TO "ROOF PLAN KEY NOTES" AT LEFT FOR ADDITIONAL INFORMATION.**

GENERAL NOTES AND CONSTRUCTION PLAN NOTES-SEE A1.1

GENERAL CONSTRUCTION NOTES:

1. SEE SEPARATE DISCIPLINE DRAWINGS FOR STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND LANDSCAPING.
2. FIRE SPRINKLERS AND FIRE LIFE SAFETY TO BE DESIGN BUILD AND COVERED UNDER SEPARATE PERMIT.
3. NEW SPRINKLER SYSTEM TO BE APPROVED BY FIRE DEPARTMENT PRIOR TO INSTALLATION.
4. EVERY OPENING IN EVERY EXTERIOR WALL OR ROOF SURFACE SHALL BE FLASHED WITH SHEET METAL OR APPROVED BUILDING PAPER.
5. OPENINGS INTO FLOORS, OR OTHER ENCLOSED AREAS SHALL NOT EXCEED 144 SQ. INCH AND SHALL BE COVERED WITH CORROSION RESISTANT WIRE MESH WITH MESH OPENINGS OF 1/4 INCH.
6. SEE PLUMBING PLAN FOR CONNECTION FROM ROOF DRAINS AND OVERFLOW DRAINS TO STORMDRAIN SYSTEM.
   - D.S. = DOWNSPOUTS
   - R.D. = ROOF DRAIN
   - O.D. = OVERFLOW DRAIN
   - RA = ROOF ACCESS
7. SEE PLUMBING PLAN FOR CONNECTION FROM ROOF DRAINS AND OVERFLOW DRAINS TO STORMDRAIN.
8. ALL MECH. EQUIPMENT LOCATED ON THE ROOF HAS A MIN. 3'-0" PERIMETER ACCESS AS REQUIRED BY THE LAMC. (1511). SEE PLAN ABOVE.

BUILDING DEPARTMENT NOTES:

1. IN BUILDINGS USED FOR OTHER THAN RESIDENTIAL OCCUPANCIES, DRAFT STOPS MUST BE INSTALLED IN WOOD FRAME FLOOR CONSTRUCTION CONTAINING CONCEALED SPACE. SUCH DRAFT STOPS MUST BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED (1000) SQUARE FEET (718.3.3).
2. IN BUILDINGS USED FOR OTHER THAN RESIDENTIAL OCCUPANCIES, DRAFT STOPS MUST BE INSTALLED IN THE ATTIC (MANSARDS) (OVERHANGS) (FALSE FRONTS SET OUT FROM WALLS) (SIMILAR CONCEALED SPACES) FORMED BY COMBUSTIBLE CONSTRUCTION. SUCH DRAFT STOPS MUST BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED (3000) SQUARE FEET (718.4.3).
3. DRAFT-STOPPING MATERIALS MUST NOT BE LESS THAN ½-INCH GYPSUM BOARD, 3/8-INCH PLYWOOD, 3/8-INCH TYPE 2-M PARTICLE BOARD OR OTHER MATERIALS APPROVED BY THE BUILDING DEPARTMENT. DRAFT-STOPPING MUST BE ADEQUATELY SUPPORTED. (718.3.1)
4. FIRE BLOCKING MUST BE PROVIDED IN ACCORDANCE WITH SECTION 718.2 AT THE FOLLOWING LOCATIONS:
   a. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS.
   b. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT 10-FOOT INTERVALS ALONG THE LENGTH OF THE WALL.
   c. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
   d. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALL UNDER THE STAIRS IS UNFINISHED.
   e. IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, WITH NONCOMBUSTIBLE MATERIALS.

CA GREEN CODE NOTES

1. PRIOR TO PERMIT BEING FINALED, A COMPLETE REPORT OF THE TESTING AND ADJUSTING SHALL BE PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE AND FORM 5.410 - TESTING AND ADJUSTING SHALL BE COMPLETED AND PROVIDED TO THE INSPECTOR. (CAL GREEN 5.410.4.)
2. PRIOR TO PERMIT BEING FINALED, A COMPLETE REPORT OF THE COMMISSIONING PROCESS SHALL BE PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE AND FORM 5.410 - VERIFICATION SHALL BE COMPLETED AND PROVIDED TO THE INSPECTOR. (CAL GREEN 5.410.2)
3. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, PROVIDE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30 PERCENT, BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION. (CAL GREEN 5.504.1.3)
4. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM. (CAL GREEN 5.504.3)
5. PROVIDE A COOL ROOF WITH ADEQUATE THERMAL EMITTANCE AND SOLAR REFLECTANCE, OR SRI VALUES IN ACCORDANCE WITH TABLE A5.106.11.2.1. (A5.106.11.2)
6. A COPY OF THE CONSTRUCTION DOCUMENTS OR A COMPARABLE DOCUMENT INDICATING THE INFORMATION FROM ENERGY CODE SECTION 110.10(B) THROUGH 110.10(C) SHALL BE PROVIDED TO THE OCCUPANT." (ENERGY CODE 110.10(D))
7. AUTOMATIC LANDSCAPE IRRIGATORS SHALL BE INSTALLED IN SUCH A WAY THAT IT DOESN'T SPRAY ON THE BUILDING

NEW BUILDING - ROOFING MATERIALS LIST:

CLASS A FIVE PLY FIRE-RATED BUILT-UP ROOF ASSEMBLY:
MANUF.: GAF MATERIALS CORPORATION

DECK:	PLYWOOD
BASE SHEET:	GAFGLAS #75 BASE SHEET, ASTM D-4601 - (1)LAYER
PLY SHEET	GAFGLAS FLEX-PLY6, ASTM D-2178 - (3)PLY
SURFACING	ENERGYCAP BUR, ASTM D-3909 (1)PLY
FLASHING MEMBRANE 2XMM(EC)	RUBEROID MOP SMOOTH, ASTM D-6164 ENERGYCAP BUR, ASTM D-3909 (1)PLY
GUARANTEE	DIAMOND PLEDGE NDL - 20 YEARS UNLIMITED
WALKWAYS	WALKWAY PADS: MINERAL-GRANULE-SURFACED, REINFORCED ASPHALTIC COMPOSITION, SLIP-RESISTING PADS. PAD SIZE: 4X4. CAP SHEET STRIPS: ASTM D 6163, TYPE I OR II, GLASS-FIBER-REINFORCED, SBS-MODIFIED, ASPHALT-IMPREGNATED AND COATED WALKWAY SHEET; WITH WHITE COARSE MINERAL-GRANULE TOP SURFACING AND FINE MINERAL SURFACING ON THE BOTTOM SURFACE.

RE:
RFI-127, SK-032R
RFI-088, RFI-089, SK-022, SK-027

4 INCLUDES:
. REDUCE CANOPY-3 TO MATCH WITH ELEVATION
. ADD WALL MOUNTED FLOOD LIGHT
. SHOW PARAPET BRACING AND ADD DORMER VENTS

5 . ADD CRICKET ON ROOF DECK, CLARIFY SURFACE DRAIN PATERN AND REPOSITION THE DRAINS
. ADD DECK COATING

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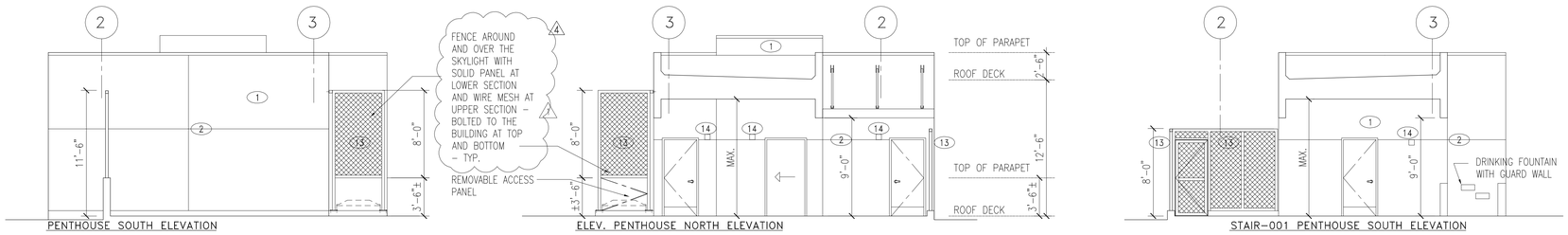
REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	FD PLAN CHECK	10/31/2017
	FD PLAN CHECK	12/14/2017
1	COORDINATION BULLETIN- 1	06/11/2018
2	REMOVE FDC & STAND PIPE	12/02/2018
3	SUMMARY OF SKETCHES	01/10/2019
4	COORDINATION BULLETIN- 5	01/10/2019

LICENSED ARCHITECT JOHANN D. WANG C27010 RENEWAL DATE 4/30/2019 STATE OF CALIFORNIA

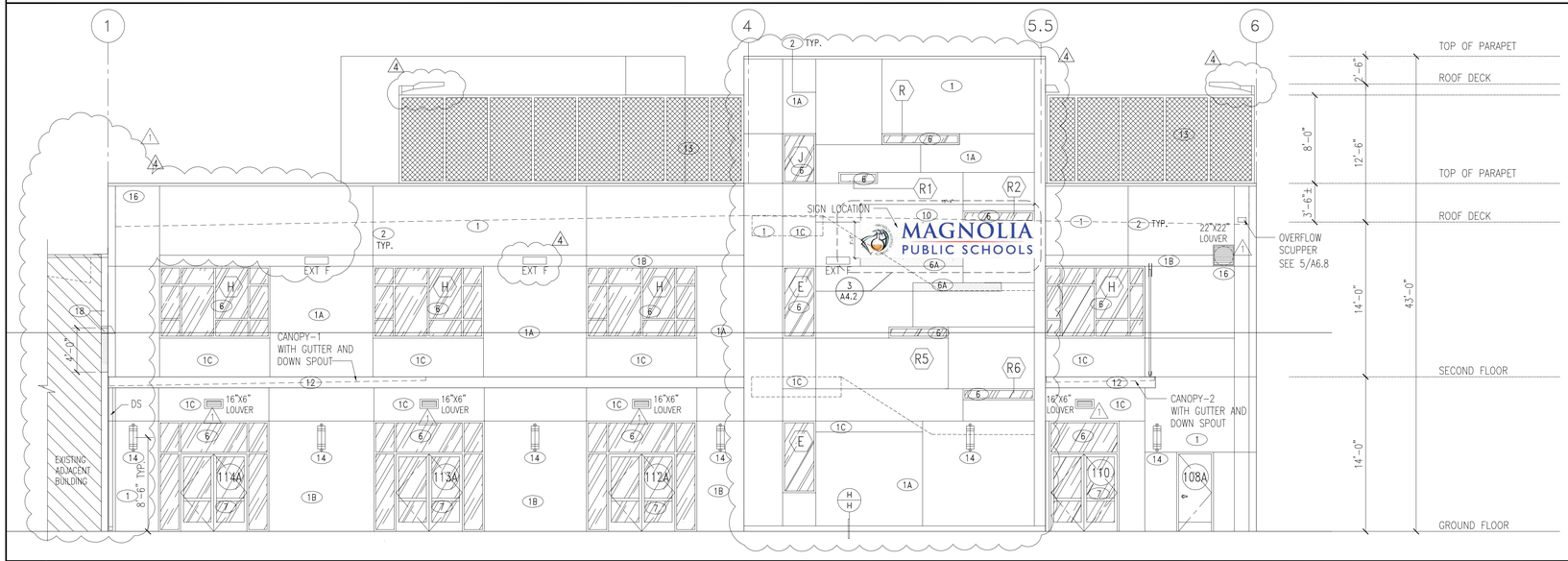
PROJECT: MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA91335
DRAWING TITLE: ROOF CONSTRUCTION PLAN
DRAWN BY: | ISSUE DATE: 01/10/2019
JOB NUMBER: | DRAWING SCALE: AS NOTED
APPROVED BY:
DRAWING NUMBER: A3.1



PENTHOUSE SOUTH ELEVATION

ELEV. PENTHOUSE NORTH ELEVATION

STAIR–001 PENTHOUSE SOUTH ELEVATION



1 SOUTH ELEVATION
SCALE: 3/16" = 1'–0"

SOUTH ELEVATION

TOTAL SURFACE = 3,286 SF

SOLID SURFACE = 2,530.75 SF (77%)

GLAZED SURFACE = 755.25 SF (23%)

FIRST FLOOR SURFACE = 1,456 SF

SOLID SURFACE = 1,025.25 SF (70%)

GLAZED SURFACE = 430.75 SF (30%)

SECOND FLOOR SURFACE = 1,456 SF

SOLID SURFACE = 1,156 SF (79.4%)

GLAZED SURFACE = 300 SF (20.6%)

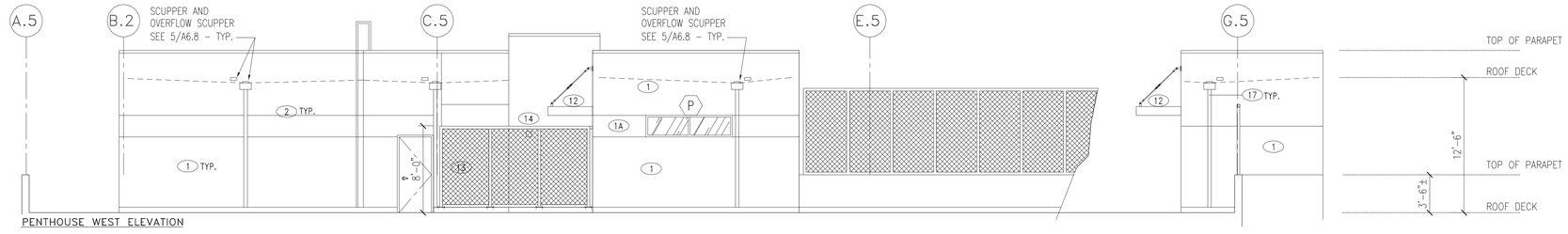
THIRD FLOOR SURFACE = 374 SF

SOLID SURFACE = 349.5 SF (93%)

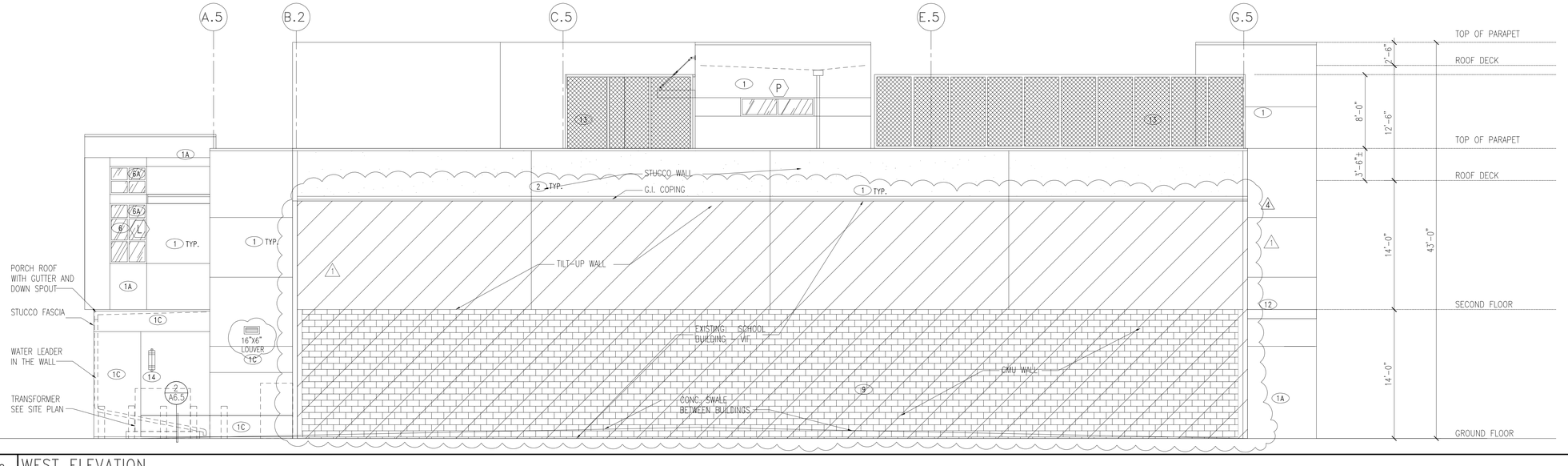
GLAZED SURFACE = 24.5 SF (7%)

LEGEND:

1. PTD. STUCCO W/ LATH, O/ WEATHER BARRIER O/5/8" EXT. GYP BD, O/ EXT. PLYWOOD O/ FIRE RETARDANT TREATED WOOD FRAMING
   STUCCO WALL – LA HABRA STUCCO
   FINISH – SMOOTH
   COLOR SPECS. TO FOLLOW
   CONTRACTOR SHALL SUBMIT 8"X11" FINISH SAMPLE FOR APPROVAL
   EXTERIOR STUCCO TO BE PAINTED WITH VISTA WEATHER MASTER ELASTOMERIC FINISH PRIOR TO APPLYING FINAL ACRIBOND FLAT PAINT COLOR.
1A. STUCCO: ACCENT COLOR–LIGHT GRAY, TBD
1B. STUCCO: ACCENT COLOR–DARK GRAY, TBD
1C. STUCCO: ACCENT COLOR–BLUE, TBD
1D. STUCCO: ACCENT COLOR–MATCH STEEL PLATE (COR–TEN FINISH)
2. 3/4" ALUM. REVEAL/CONTROL JOINT, TYP. SEE 18/D1.0
   NOTE: PROVIDE CONTROL JOINTS AT UNDERSIDE OF CANOPIES AND ALL EXTERIOR WALLS THAT ARE NOT SHOWN ON ELEVATIONS SPACING AT 10'–0" O.C. MAX.
3. 20GA WEATHERED SHEET METAL CLADDING (COR–TEN FINISH) OVER 5/8" "X" GYP. BD O/ STRUCTURAL STEEL COLUMN
4. CUT OUT STEEL PLATE, WEATHERED STEEL (COR–TEN FINISH)
5. PROVIDE ANTI–GRAFFITI FINISH AT THE FIRST 9 FEET, MEASURED FROM GRADE, AT EXTERIOR WALLS AND DOORS. (6306)
   (PAINTED SURFACE – LARR #256011, UNFINISHED SURFACE – LARR #252861)
6. STOREFRONT GLASS WINDOW:
   1" LOW–E INSULATED TEMPERED DUAL GLAZED GLASS,
   2" X 4 1/2" CLEAR ALUMINUM STOREFRONT FRAME
   GLASS SPEC. – PPG VISTA COOL(2) AZURIA SOLORBAN 60
6A. STOREFRONT SPANDREL GLASS WINDOW:
   1" LOW–E INSULATED TEMPERED DUAL GLAZED GLASS,
   2" x 4 1/2" CLEAR ANODIZED ALUMINUM FRAME
   GLASS SPEC. – PPG VISTA COOL(2) AZURIA SOLORBAN 60
7. 6'–0" W X 7'–0" HT. PAIR OF STOREFRONT TEMPERED GLASS DOORS CLEAR ANODIZED ALUMINUM FRAME.
8. BUILDING ADDRESS
   SUBMIT SHOP DRAWINGS FOR ARCHITECTS APPROVAL
9. REINFORCED CMU WALL – PAINTED
10. SCHOOL SIGN AND LOGO, SEE 3&4/A4.2
    SUBMIT SHOP DRAWINGS FOR ARCHITECTS APPROVAL
11. TRAPEZOIDAL CORRUGATED STEEL PANEL,
    METALTECH–USA TRAPEZOIDAL CORRUGATE OR EQUAL, FINISH–TBD
12. CANOPY OVERHEAD, SEE STRUCTURAL
13. W.I. FENCE W/ PAINTED PERFORATED METAL PANELS.
14. LIGHT FIXTURE PER SCHEDULE
15. CANTILEVERED CANOPY
16. VENT LOUVER – PAINTED TO MATCH ADJACENT WALL
17. PAINTED G.I. GUTTER AND DOWN SPOUT
18. PAINTED G.I. GAP COVER –
    PROVIDE 4' PERFORATED G.I. SECTION TO ALLOW 50 SQUARE INCH VENTED AREA WITH INSECT SCREEN



PENTHOUSE WEST ELEVATION



2 WEST ELEVATION
SCALE: 3/16" = 1'–0"

WEST ELEVATION

TOTAL SURFACE = 2,912 SF

SOLID SURFACE = 2,912 SF (100%)

GLAZED SURFACE = 0 SF (0%)

FIRST FLOOR SURFACE = 1,456 SF

SOLID SURFACE = 1,456 SF (100%)

GLAZED SURFACE = 0 SF (0%)

SECOND FLOOR SURFACE = 1,456 SF

SOLID SURFACE = 1,456 SF (100%)

GLAZED SURFACE = 0 SF (0%)

RE:
RFI–013.1, RFI–013.2, SK–021

1 INCLUDES:
- ADD FENCE OVER SKYLIGHT
- FLASHING BETWEEN NEW BUILDING AND THE EXISTING BUILDING
- STAIR–2 SOUTH FACADE IS MODIFIED
- RELOCATE SCHOOL SIGN
- WEST ELEVATION FIELD CONDITION UPDATE

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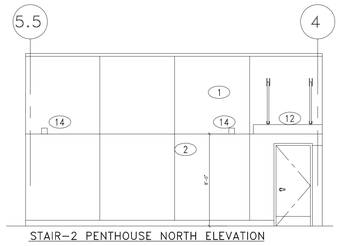
MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

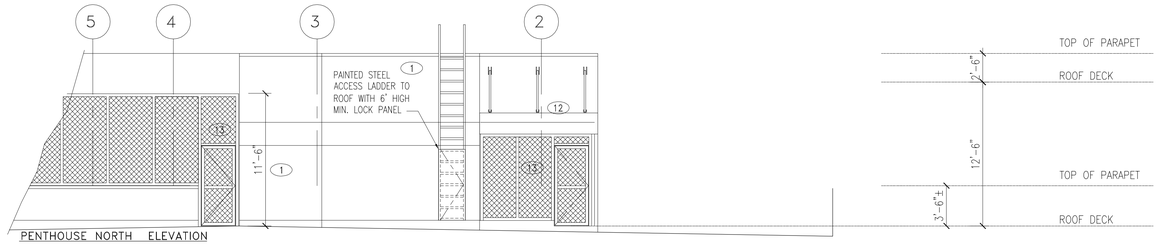
REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	FD PLAN CHECK	10/31/2017
	FD PLAN CHECK	12/14/2017
1	COORDINATION BULLETIN– 1	06/11/2018
2	COORDINATION BULLETIN– 2	06/25/2018
4	SUMMARY OF SKETCHES	01/10/2019

LICENSED ARCHITECT
JOHANN D. WANG
C27010
4/30/2019
RENEWAL DATE
STATE OF CALIFORNIA

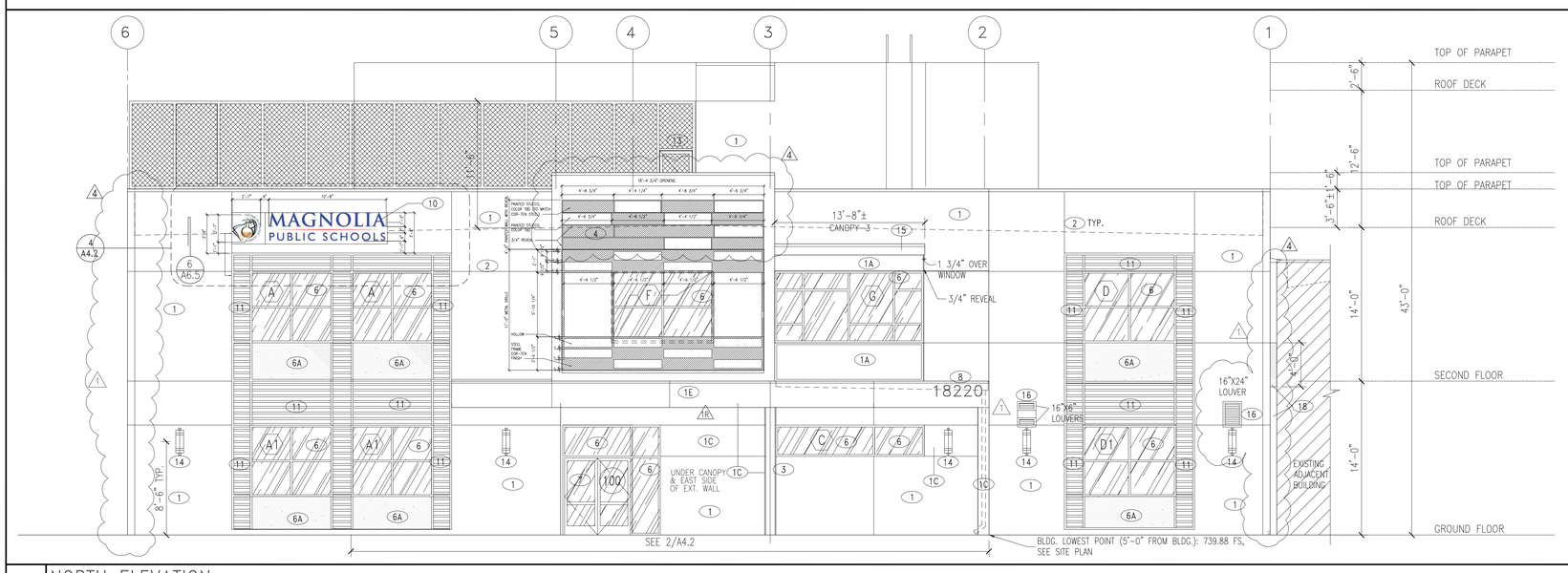
PROJECT: MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA91335
DRAWING TITLE: ELEVATIONS
DRAWN BY:
ISSUE DATE: 01/10/2019
JOB NUMBER:
DRAWING SCALE: AS NOTED
APPROVED BY:
DRAWING NUMBER: A4.0



STAIR-2 PENTHOUSE NORTH ELEVATION



PENTHOUSE NORTH ELEVATION



1 NORTH ELEVATION
SCALE: 3/16" = 1'-0"

NORTH ELEVATION

TOTAL SURFACE = 2,912 SF

SOLID SURFACE = 2,263.5 SF (78%)

GLAZED SURFACE = 648.5 SF (22%)

FIRST FLOOR SURFACE = 1,456 SF

SOLID SURFACE = 1,127.5 SF (77.4%)

GLAZED SURFACE = 328.5 SF (22.6%)

SECOND FLOOR SURFACE = 1,456 SF

SOLID SURFACE = 1,136 SF (78%)

GLAZED SURFACE = 320 SF (22%)

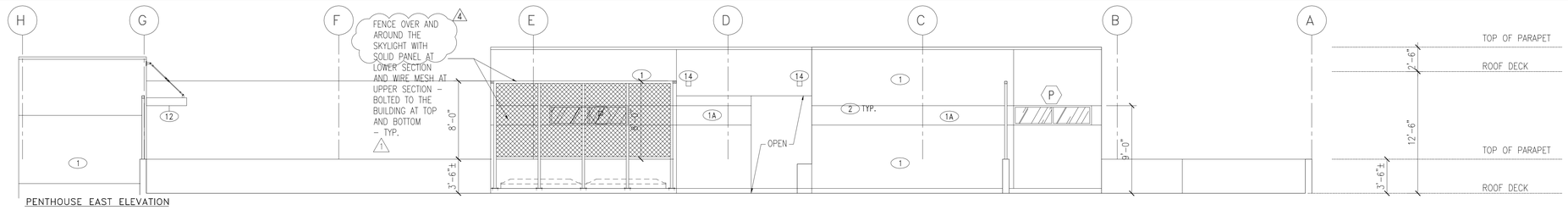
LEGEND:

1. PTD. STUCCO W/ LATH, O/ WEATHER BARRIER O/5/8" EXT. GYP BD, O/ EXT. PLYWOOD O/ FIRE RETARDANT TREATED WOOD FRAMING
   STUCCO WALL – LA HABRA STUCCO
   FINISH – SMOOTH
   COLOR SPECS. TO FOLLOW
   CONTRACTOR SHALL SUBMIT 8"X11" FINISH SAMPLE FOR APPROVAL
   EXTERIOR STUCCO TO BE PAINTED WITH VISTA WEATHER MASTER ELASTOMERIC FINISH PRIOR TO APPLYING FINAL ACRIBOND FLAT PAINT COLOR.
- 1A STUCCO: ACCENT COLOR–LIGHT GRAY, TBD
- 1B STUCCO: ACCENT COLOR–DARK GRAY, TBD
- 1C STUCCO: ACCENT COLOR–BLUE, TBD
- 1D STUCCO: ACCENT COLOR–MATCH STEEL PLATE (COR–TEN FINISH)
- 1E 22 GA. MTL. GUTTER FASCIA (SEE 1/A5.4): PAINT COLOR–BLUE, TBD
- 2 3/4" ALUM. REVEAL/CONTROL JOINT, TYP. SEE 18/D1.0 (1R)

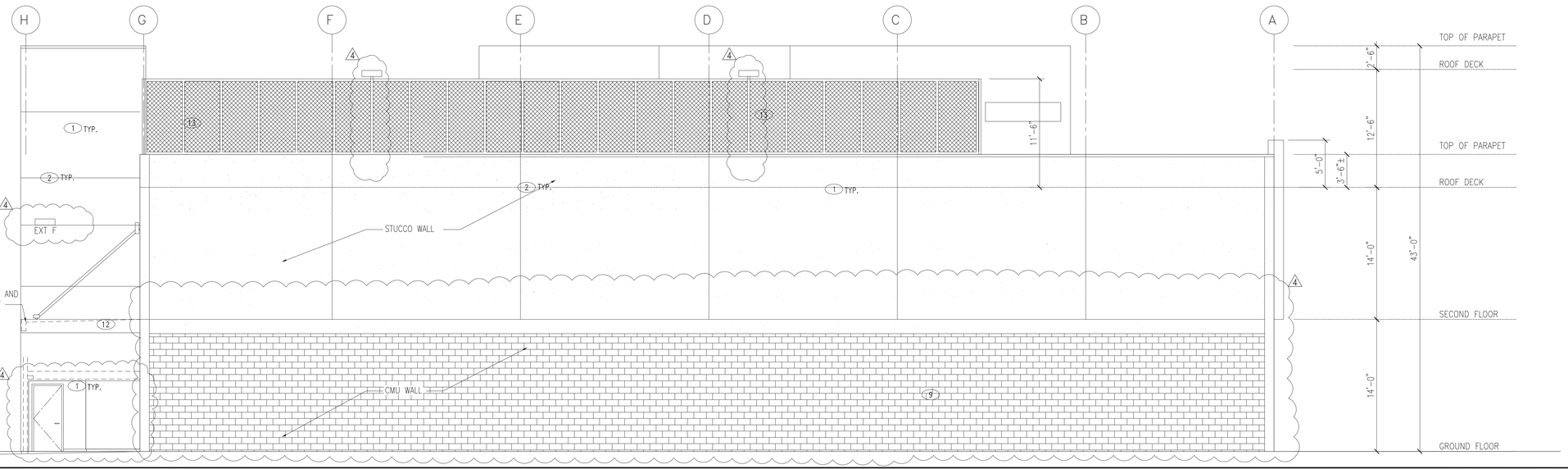
NOTE: PROVIDE CONTROL JOINTS AT UNDERSIDE OF CANOPIES AND ALL EXTERIOR WALLS THAT ARE NOT SHOWN ON ELEVATIONS SPACING AT 10'–0" O.C. MAX.

3. 20GA WEATHERED SHEET METAL CLADDING (COR–TEN FINISH) OVER 5/8" "X" GYP. BD O/ STRUCTURAL STEEL COLUMN
4. CUT OUT STEEL PLATE, WEATHERED STEEL (COR–TEN FINISH)
5. PROVIDE ANTI–GRAFFITI FINISH AT THE FIRST 9 FEET, MEASURED FROM GRADE, AT EXTERIOR WALLS AND DOORS. (6306) (PAINTED SURFACE – LARR #256011, UNFINISHED SURFACE – LARR #252867)
6. STOREFRONT GLASS WINDOW: 1" LOW–E INSULATED TEMPERED DUAL GLAZED GLASS, 2" X 4 1/2" CLEAR ALUMINUM STOREFRONT FRAME GLASS SPEC. – PPG VISTA COOL(2) AZURIA SOLORBAN 60
- 6A STOREFRONT SPANDREL GLASS WINDOW: 1" LOW–E INSULATED TEMPERED DUAL GLAZED GLASS, 2" x 4 1/2" CLEAR ANODIZED ALUMINUM FRAME GLASS SPEC. – PPG VISTA COOL(2) AZURIA SOLORBAN 60
7. 6'–0" W X 7'–0" HT. PAIR OF STOREFRONT TEMPERED GLASS DOORS CLEAR ANODIZED ALUMINUM FRAME.
8. BUILDING ADDRESS SUBMIT SHOP DRAWINGS FOR ARCHITECTS APPROVAL
9. REINFORCED CMU WALL – PAINTED
10. SCHOOL SIGN AND LOGO, SEE 3&4/A4.2 SUBMIT SHOP DRAWINGS FOR ARCHITECTS APPROVAL
11. TRAPEZOIDAL CORRUGATED STEEL PANEL, METALTECH–USA TRAPEZOIDAL CORRUGATE OR EQUAL, FINISH–TBD
12. CANOPY OVERHEAD, SEE STRUCTURAL
13. W.I. FENCE W/ PAINTED PERFORATED METAL PANELS.
14. LIGHT FIXTURE PER SCHEDULE
15. CANTILEVERED CANOPY
16. VENT LOUVER – PAINTED TO MATCH ADJACENT WALL
17. PAINTED G.I. GUTTER AND DOWN SPOUT
18. PAINTED G.I. GAP COVER – PROVIDE 4" PERFORATED G.I. SECTION TO ALLOW 50 SQUARE INCH VENTED AREA WITH INSECT SCREEN

(1)



PENTHOUSE EAST ELEVATION



2 EAST ELEVATION
SCALE: 3/16" = 1'-0"

EAST ELEVATION

TOTAL SURFACE = 2,912 SF

SOLID SURFACE = 2,912 SF (100%)

GLAZED SURFACE = 0 SF (0%)

FIRST FLOOR SURFACE = 1,456 SF

SOLID SURFACE = 1,456 SF (100%)

GLAZED SURFACE = 0 SF (0%)

SECOND FLOOR SURFACE = 1,456 SF

SOLID SURFACE = 1,456 SF (100%)

GLAZED SURFACE = 0 SF (0%)

RE: RFI–105, SK–013

(1)
. ADD FENCE OVER SKYLIGHT
. FLASHING BETWEEN NEW BUILDING AND THE EXISTING BUILDING
. DECORATIVE METAL FRAME ON NORTH FACADE IS MODIFIED
. STUCCO AREA ON EAST ELEVATION
. SHOW STAIR–2 EXIT DOOR AS IN PLAN

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MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	FD PLAN CHECK	10/31/2017
	FD PLAN CHECK	12/14/2017
1	COORDINATION BULLETIN– 1	06/11/2018
1R	COORDINATION BULLETIN– 2	06/25/2018
4	SUMMARY OF SKETCHES	01/10/2019

LICENSED ARCHITECT
JOHANN D. WONG
C27010
4/30/2019
RENEWAL DATE
STATE OF CALIFORNIA

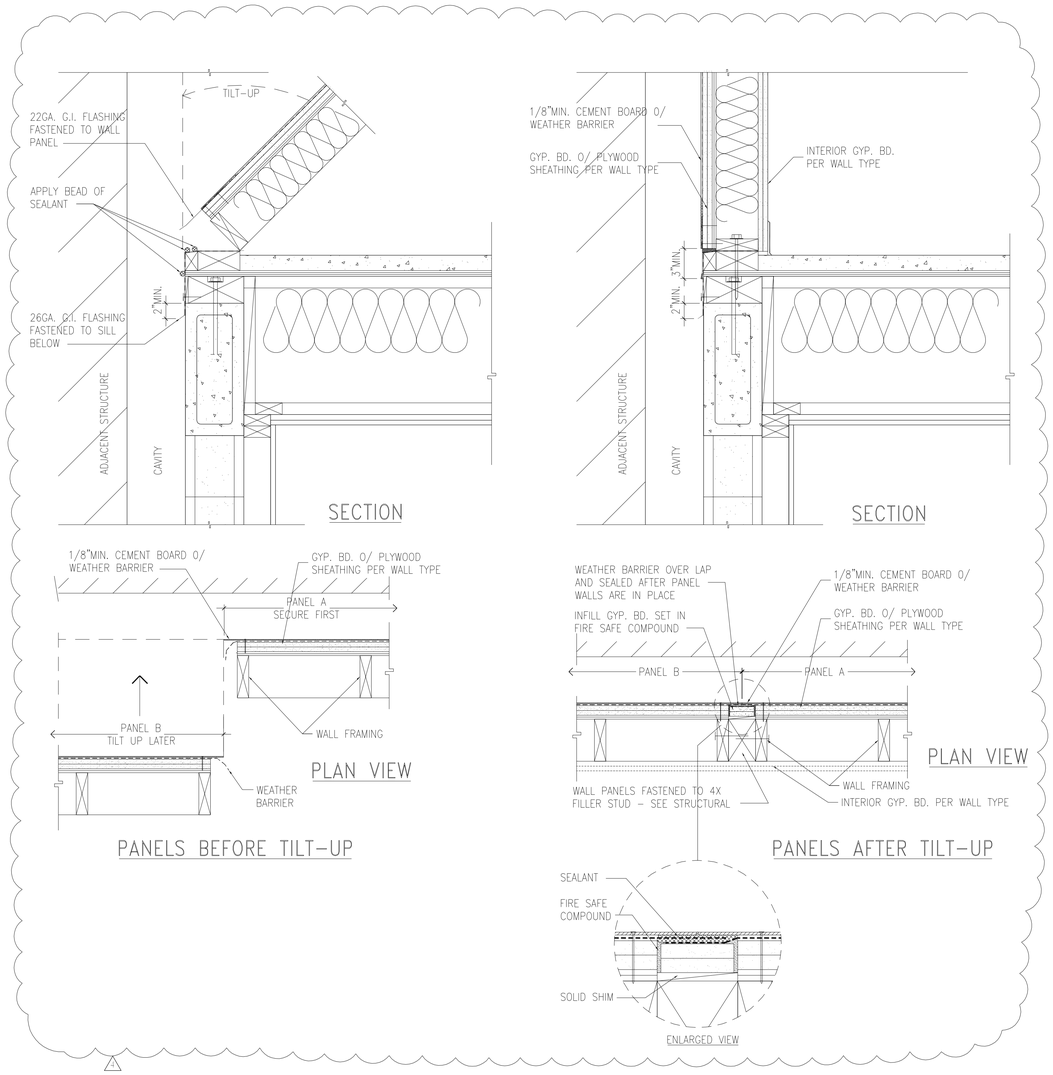
PROJECT
MAGNOLIA SCIENCE ACADEMY

PROJECT ADDRESS
18220 SHERMAN WAY, RESEDA, CA91335

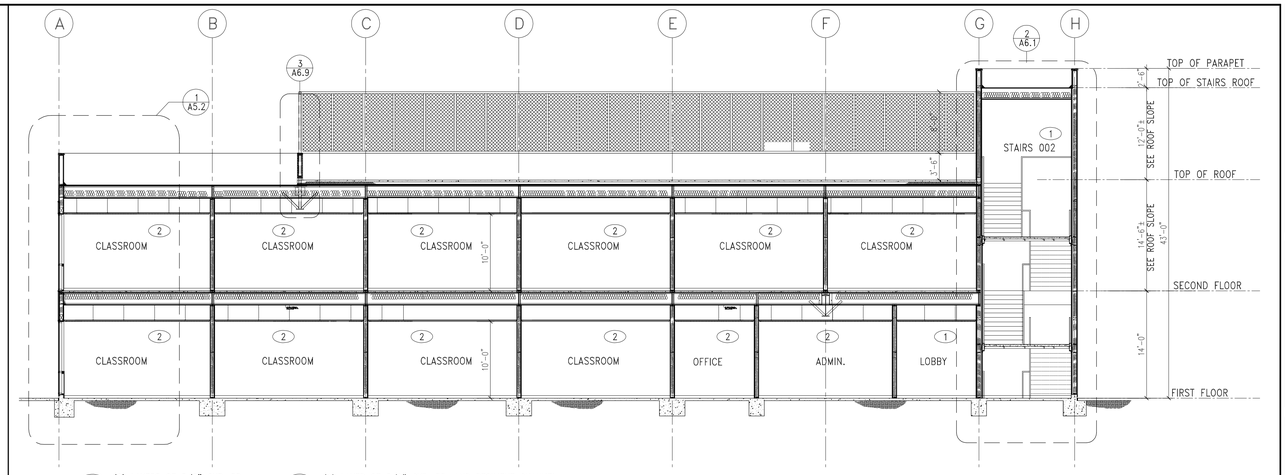
DRAWING TITLE
ELEVATIONS

DRAWN BY
ISSUE DATE
01/10/2019
JOB NUMBER
DRAWING SCALE
AS NOTED
APPROVED BY:

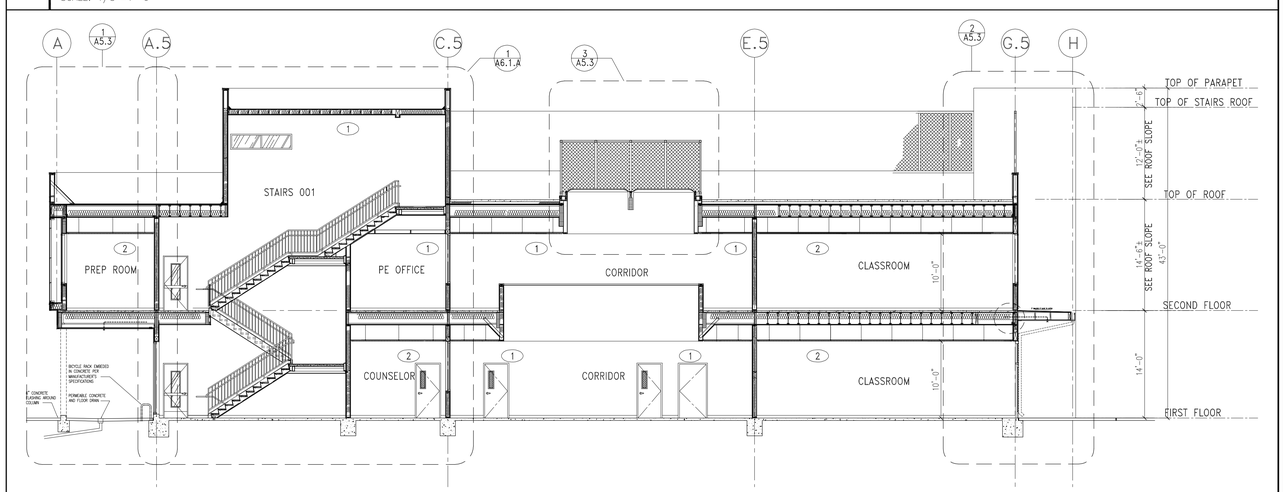
DRAWING NUMBER
A4.1



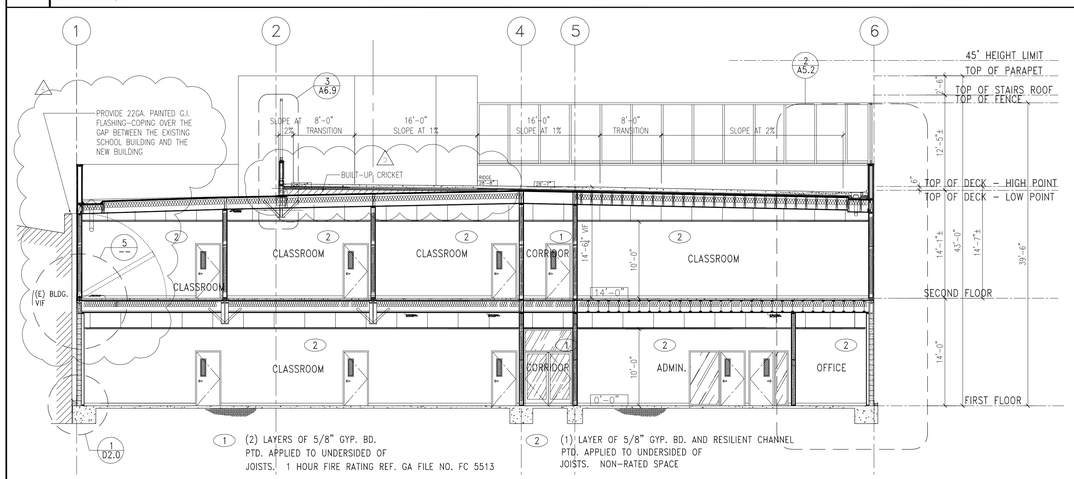
5 TILT-UP WALL DETAIL
SCALE: 1 1/2"=1'-0"



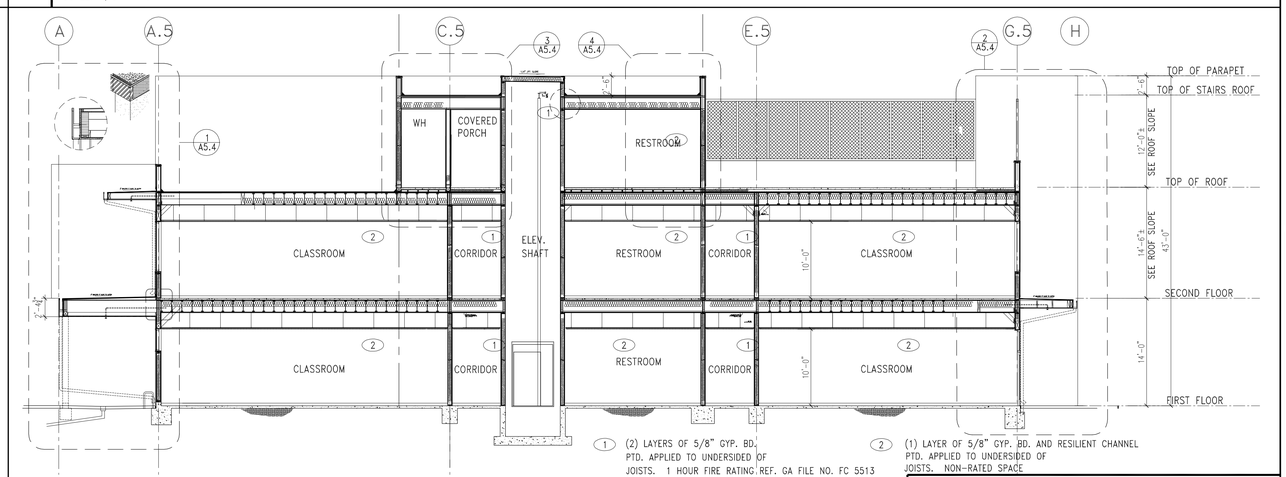
1 BUILDING SECTION
SCALE: 1/8"=1'-0"



2 BUILDING SECTION
SCALE: 1/8"=1'-0"



4 BUILDING SECTION
SCALE: 1/8"=1'-0"



3 BUILDING SECTION
SCALE: 1/8"=1'-0"

RE: RFI-018 - SK-004
1. MODIFY TILT-UP WALL DETAIL
2. ADD FLASHING-COPING BETWEEN EXISTING AND NEW BUILDINGS

NEW
. ADD A CRICKET AT ROOF DECK

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REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	FD PLAN CHECK	10/31/2017
	FD PLAN CHECK	12/14/2017
4	SUMMARY OF SKETCHES COORDINATION BULLETIN- 5	01/10/2019
5		01/10/2019

LICENSED ARCHITECT
JOHANN D. WANG
C27010
4/30/2019
RENEWAL DATE
STATE OF CALIFORNIA

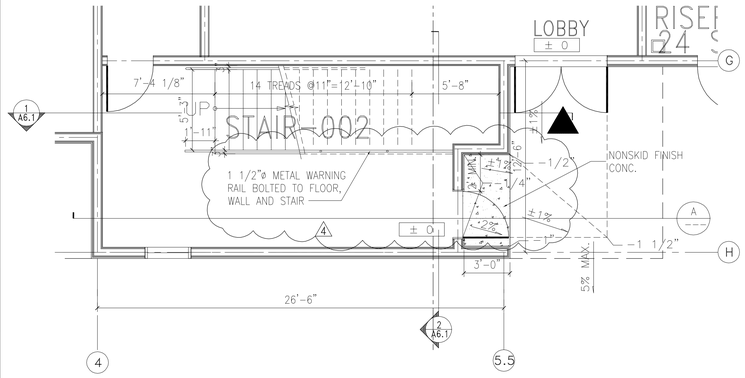
PROJECT
MAGNOLIA SCIENCE ACADEMY

PROJECT ADDRESS
18220 SHERMAN WAY, RESEDA, CA91335

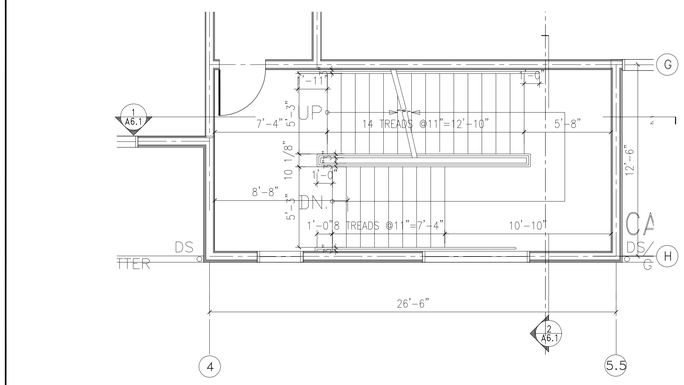
DRAWING TITLE
SECTIONS AND DETAILS

DRAWN BY	ISSUE DATE
	01/10/2019
JOB NUMBER	DRAWING SCALE
	AS NOTED
APPROVED BY:	

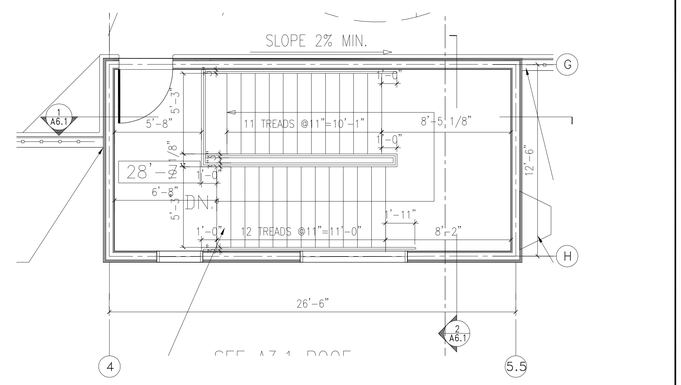
DRAWING NUMBER
A5.1



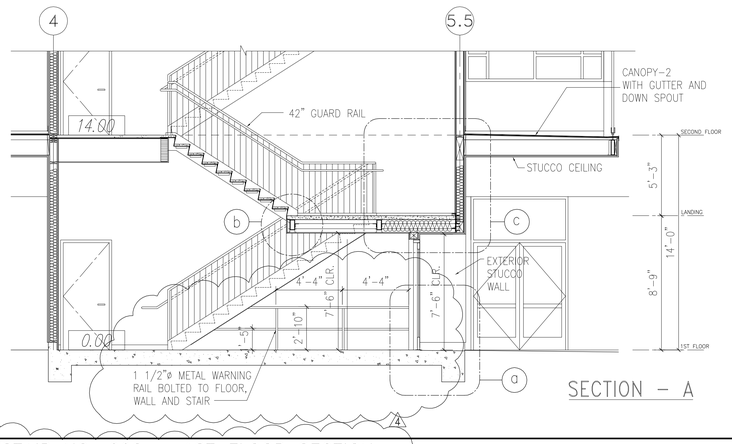
1 STAIR NO. 002 – 1ST FLOOR
SCALE: 1/4" = 1'-0"



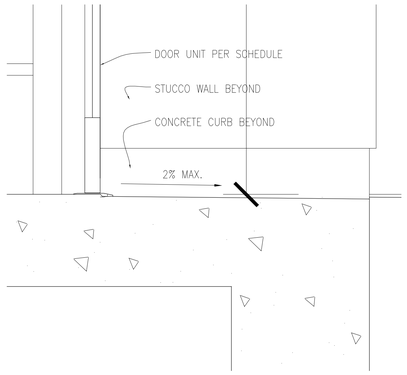
2 STAIR NO. 002 – SECOND FLOOR
SCALE: 1/4" = 1'-0"



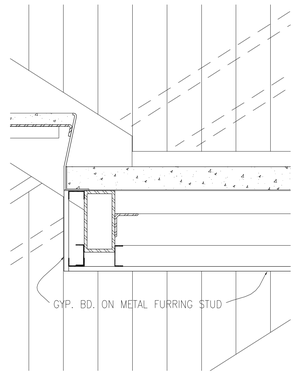
3 STAIR NO. 002 – ROOF LEVEL
SCALE: 1/4" = 1'-0"



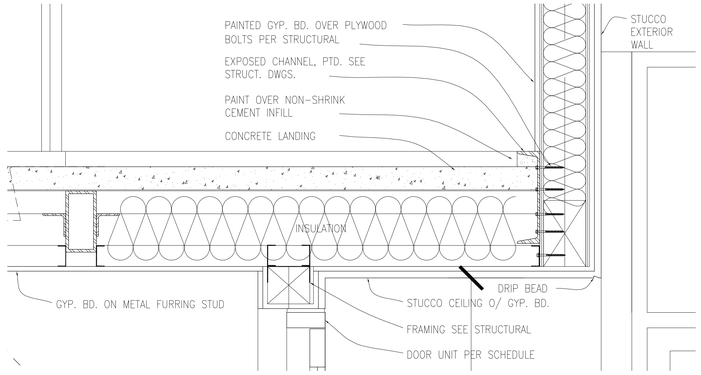
SECTION – A



DETAIL (a)

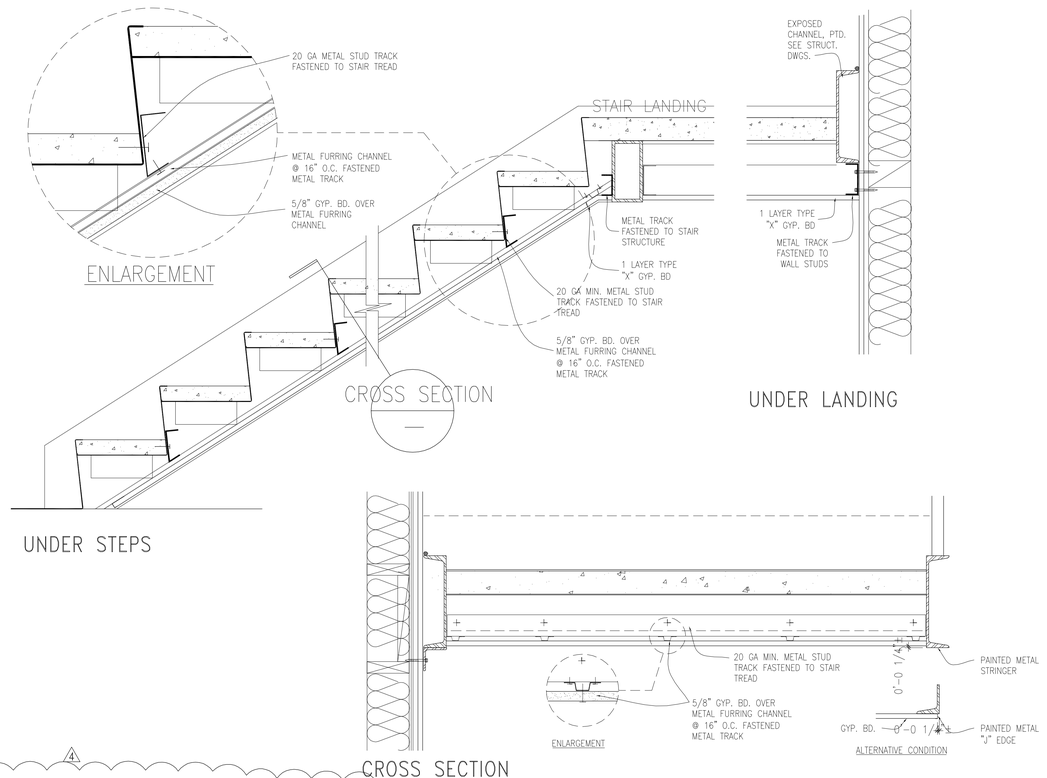


DETAIL (b)

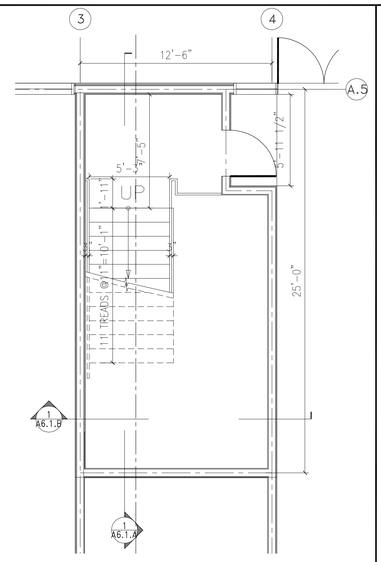


DETAIL (c)

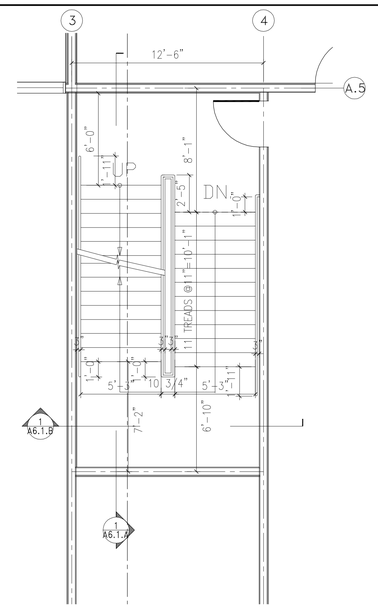
A STAIR NO. 002 – 1ST FLOOR SECTION
NTS



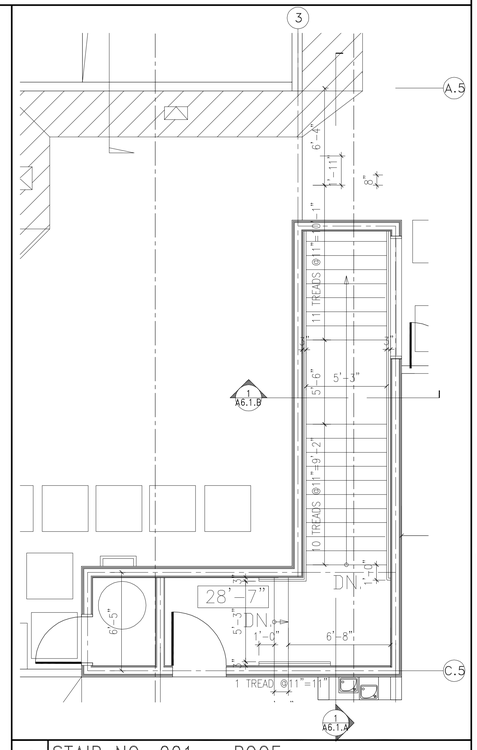
B TYPICAL UNDER STAIR FURRING DETAIL
NTS



4 STAIR NO. 001 – FIRST FLOOR
SCALE: 1/4" = 1'-0"



5 STAIR NO. 001 – SECOND FLOOR
SCALE: 1/4" = 1'-0"



6 STAIR NO. 001 – ROOF
SCALE: 1/4" = 1'-0"

RE:
RFI-065, SK-003R AND SK-003RR
RFI-#094, SK-028.2

4 INCLUDES:
. STAIR-1 WARNING RAIL AND DETAILS
. STAIR UNDERSIDE FURRING DETAILS

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Architecture and Planning

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18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	FD PLAN CHECK	10/31/2017
	FD PLAN CHECK	12/14/2017
3	REMOVE FDC & STAND PIPE	12/02/2018
4	SUMMARY OF SKETCHES	01/10/2019

LICENSED ARCHITECT
JOHANN D. RANO
C27010
01/10/2019
RENEWAL DATE
STATE OF CALIFORNIA

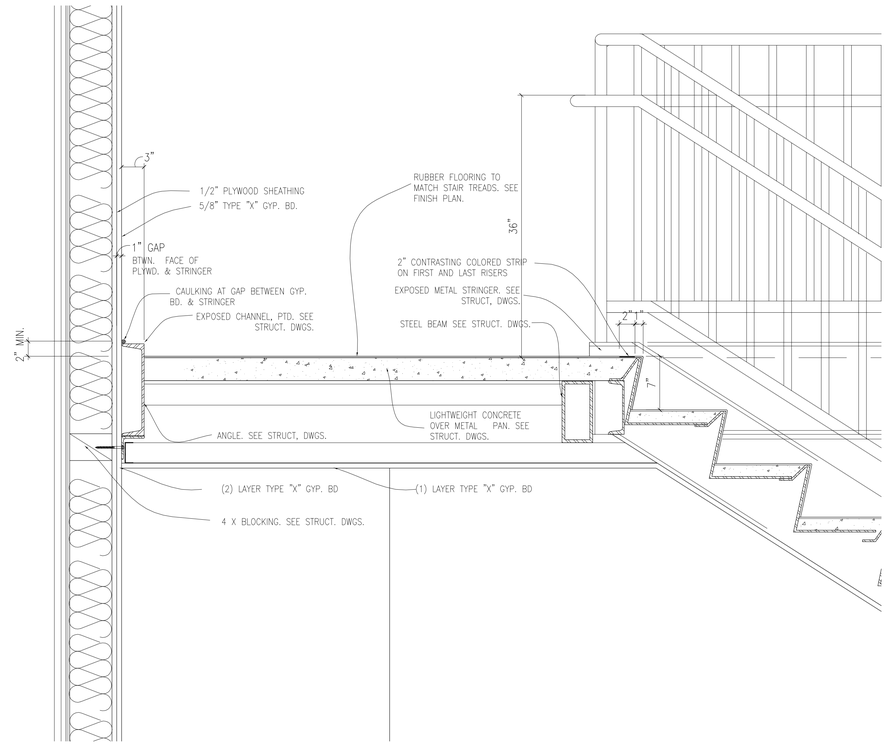
PROJECT
MAGNOLIA SCIENCE ACADEMY

PROJECT ADDRESS
18220 SHERMAN WAY, RESEDA, CA91335

DRAWING TITLE
STAIR PLANS

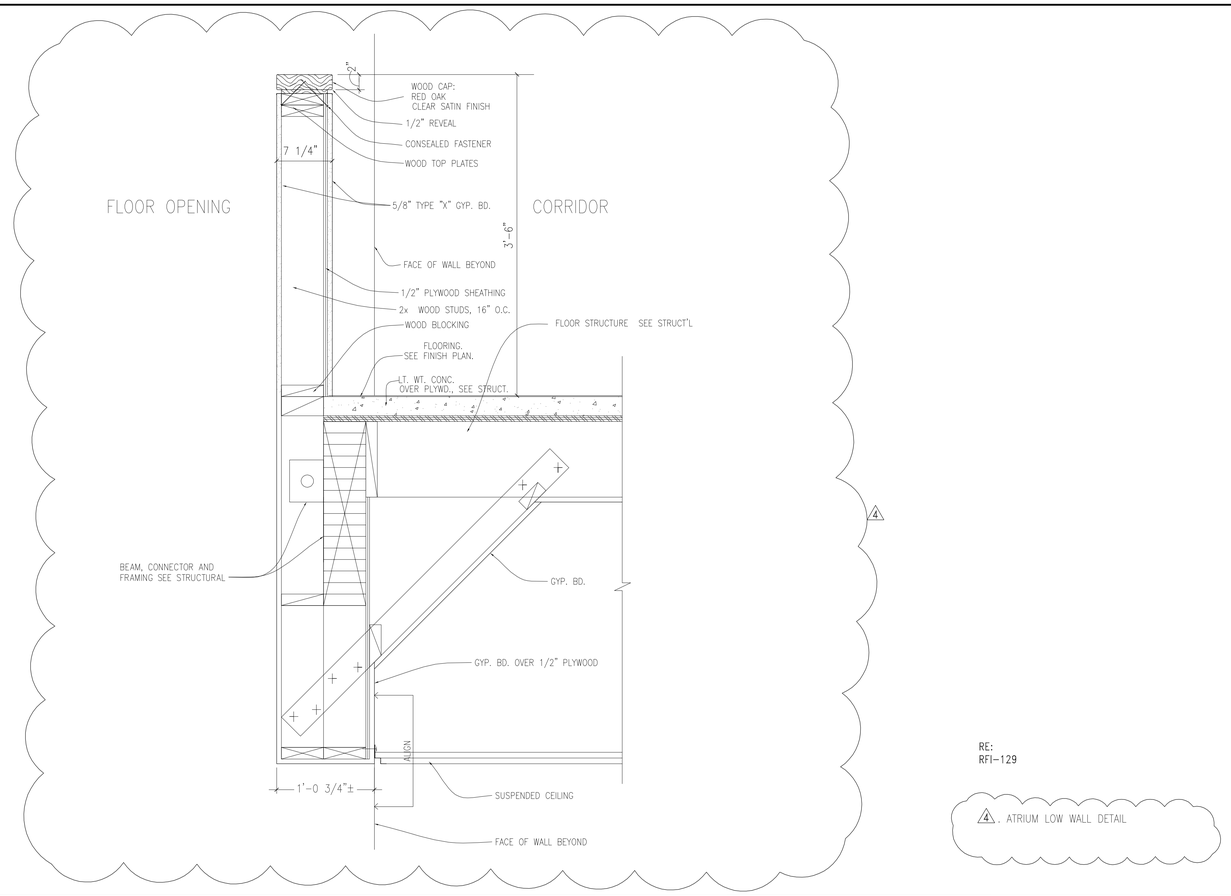
DRAWN BY
ISSUE DATE
01/10/2019
JOB NUMBER
DRAWING SCALE
AS NOTED
APPROVED BY:

DRAWING NUMBER
A6.0



NOTE: ALL EXPOSED STL. TO BE PAINTED. COLOR T.B.D.

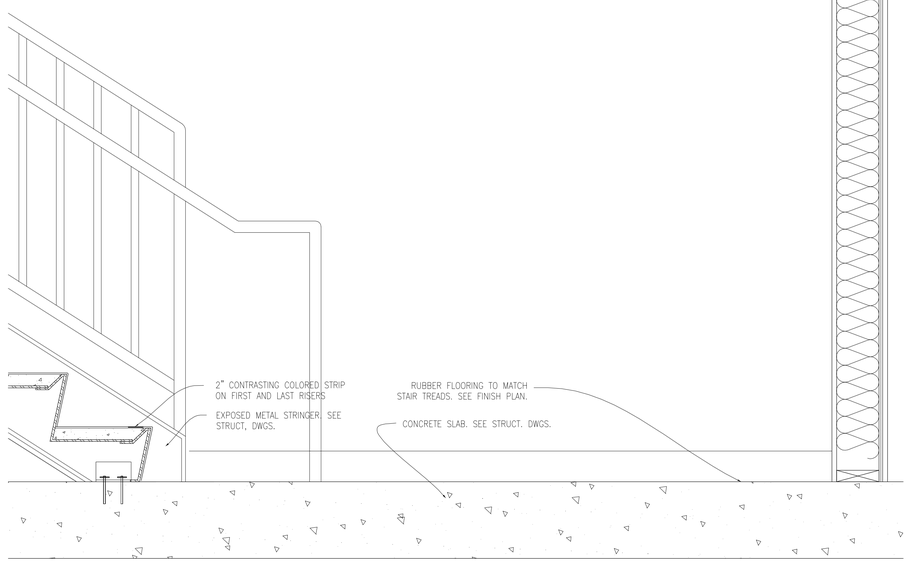
1 STAIRS INTERMEDIATE LANDING
SCALE: 1 1/2" = 1'-0"



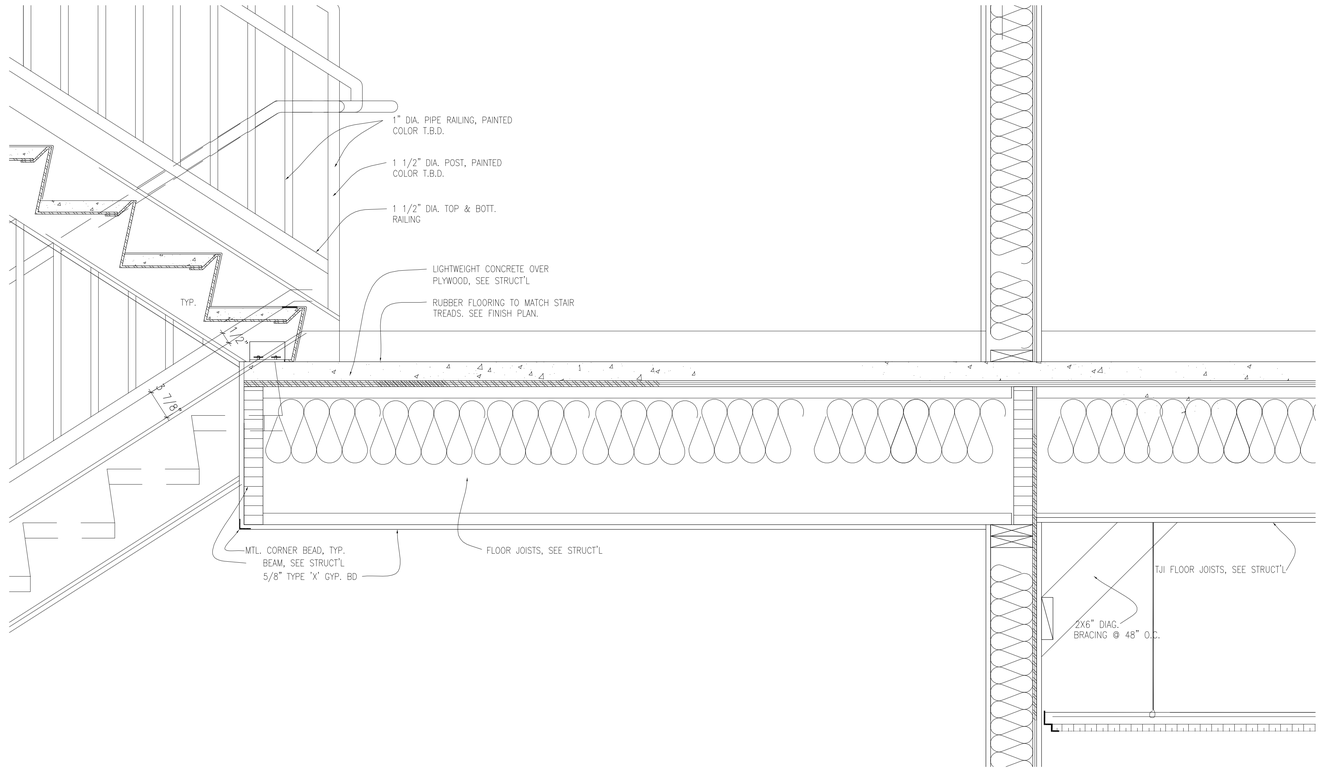
RE:
RFI-129

4. ATRIUM LOW WALL DETAIL

2 LOW WALL DETAIL
SCALE: 1 1/2" = 1'-0"



3 STAIRS INTERMEDIATE LANDING
SCALE: 1 1/2" = 1'-0"



4 STAIRS INTERMEDIATE LANDING
SCALE: 1 1/2" = 1'-0"

FRANCO ARCHITECTS INC.
12345 Ventura Blvd. H
Studio City, CA 91604
Tel 818 754-2030
Fax 818 754-2032
Architecture and Planning

MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	FD PLAN CHECK	10/31/2017
	FD PLAN CHECK	12/14/2017
4	SUMMARY OF SKETCHES	01/10/2019

LICENSED ARCHITECT
JOHANN D. RANO
C27010
01/10/2019
RENEWAL DATE
STATE OF CALIFORNIA

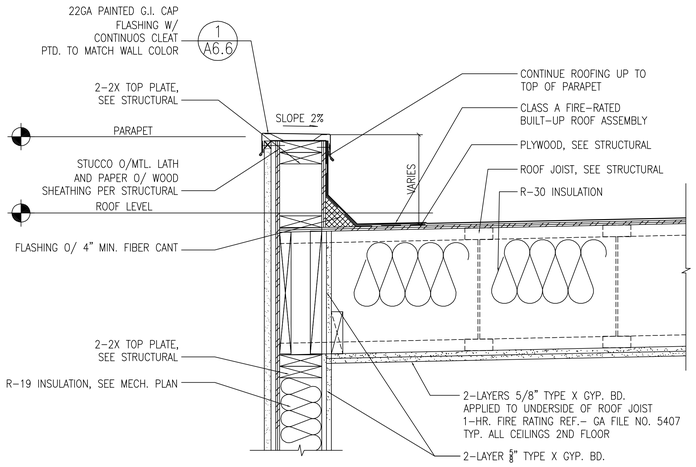
PROJECT
MAGNOLIA SCIENCE ACADEMY

PROJECT ADDRESS
18220 SHERMAN WAY,
RESEDA, CA91335

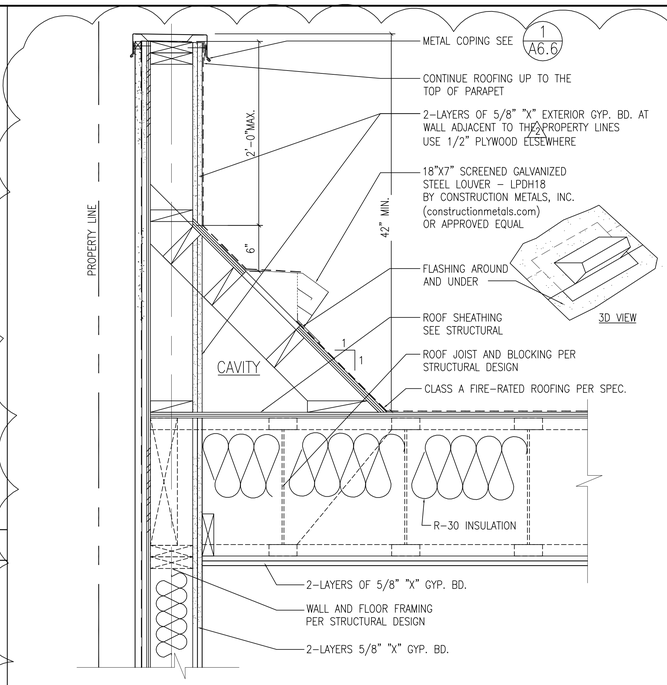
DRAWING TITLE
STAIR SECTIONS
AND DETAILS

DRAWN BY:
ISSUE DATE:
01/10/2019
JOB NUMBER:
DRAWING SCALE:
AS NOTED
APPROVED BY:

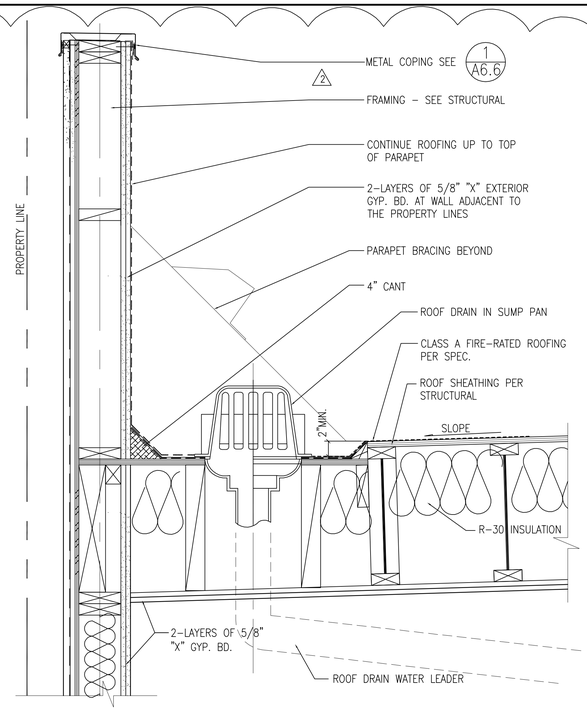
DRAWING NUMBER:
A6.2



1 ROOF CURB

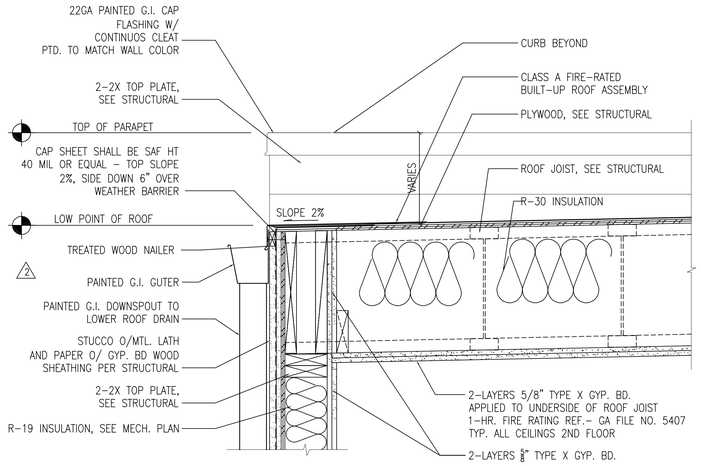


2 PARAPET AND ROOF

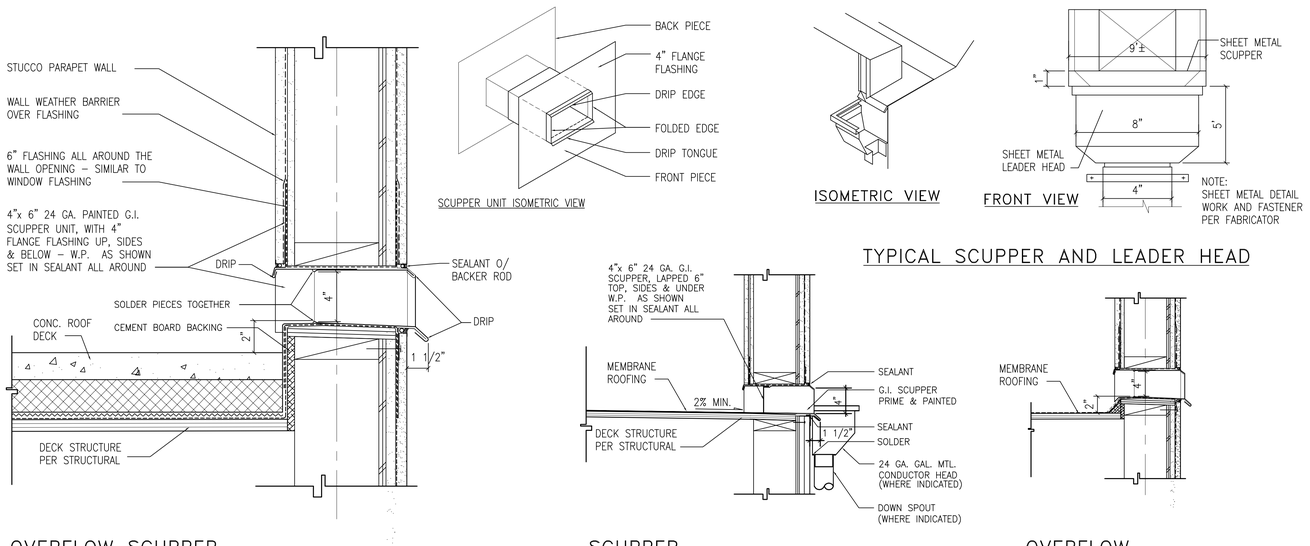


3 PARAPET AND ROOF DRAIN

6 ROFING TO WALL



4 ROOF SIDE DRAIN



OVERFLOW SCUPPER @ CONCRETE DECK

SCUPPER @ MEMBRANE ROOF

OVERFLOW @ MEMBRANE ROOF

5 SCUPPER AND OVER FLOW DETAILS

7 PARAPET BRACING GAP AT ROOF DRAIN

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REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	FD PLAN CHECK	10/31/2017
	FD PLAN CHECK	12/14/2017
1	COORDINATION BULLETIN- 1	06/11/2018
2	CONSULTANT REVIEW	09/02/2018
3	SUMMARY OF SKETCHES	01/10/2019

LICENSED ARCHITECT JOHANN D. RANO C27010 01/10/2019 RENEWAL DATE STATE OF CALIFORNIA

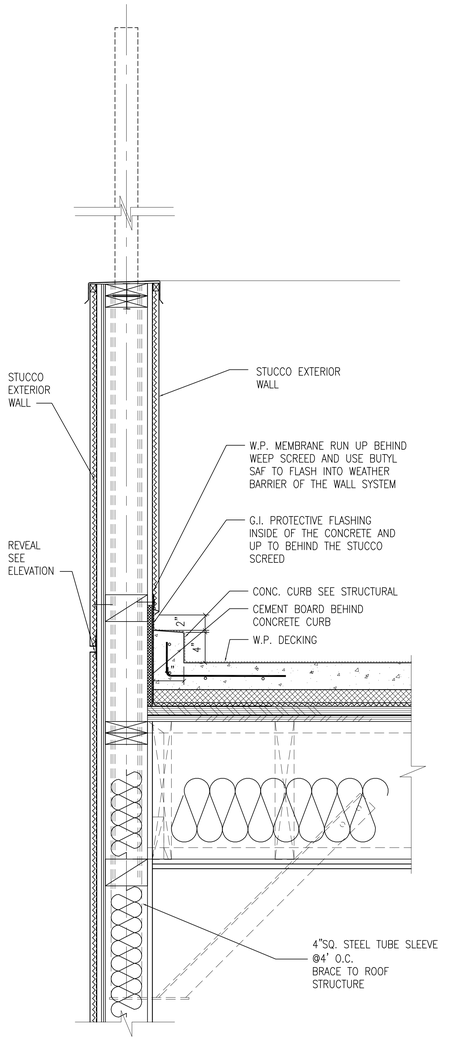
PROJECT
MAGNOLIA SCIENCE ACADEMY

PROJECT ADDRESS
18220 SHERMAN WAY, RESEDA, CA91335

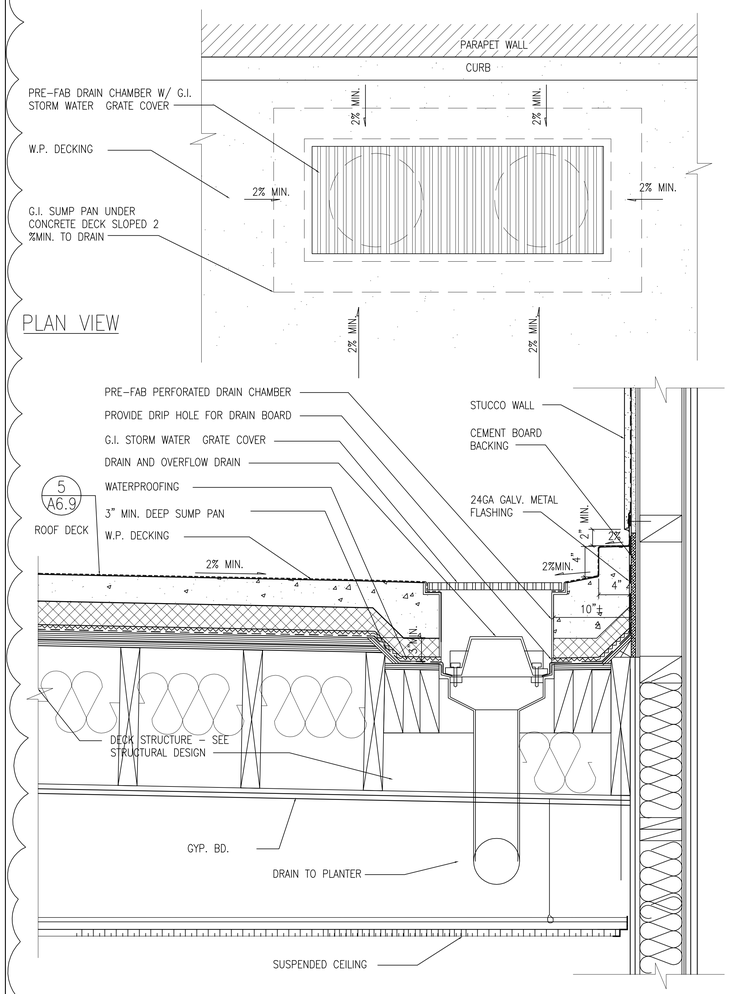
DRAWING TITLE
SECTIONS AND DETAILS

DRAWN BY | ISSUE DATE 01/10/2019
JOB NUMBER | DRAWING SCALE AS NOTED
APPROVED BY:

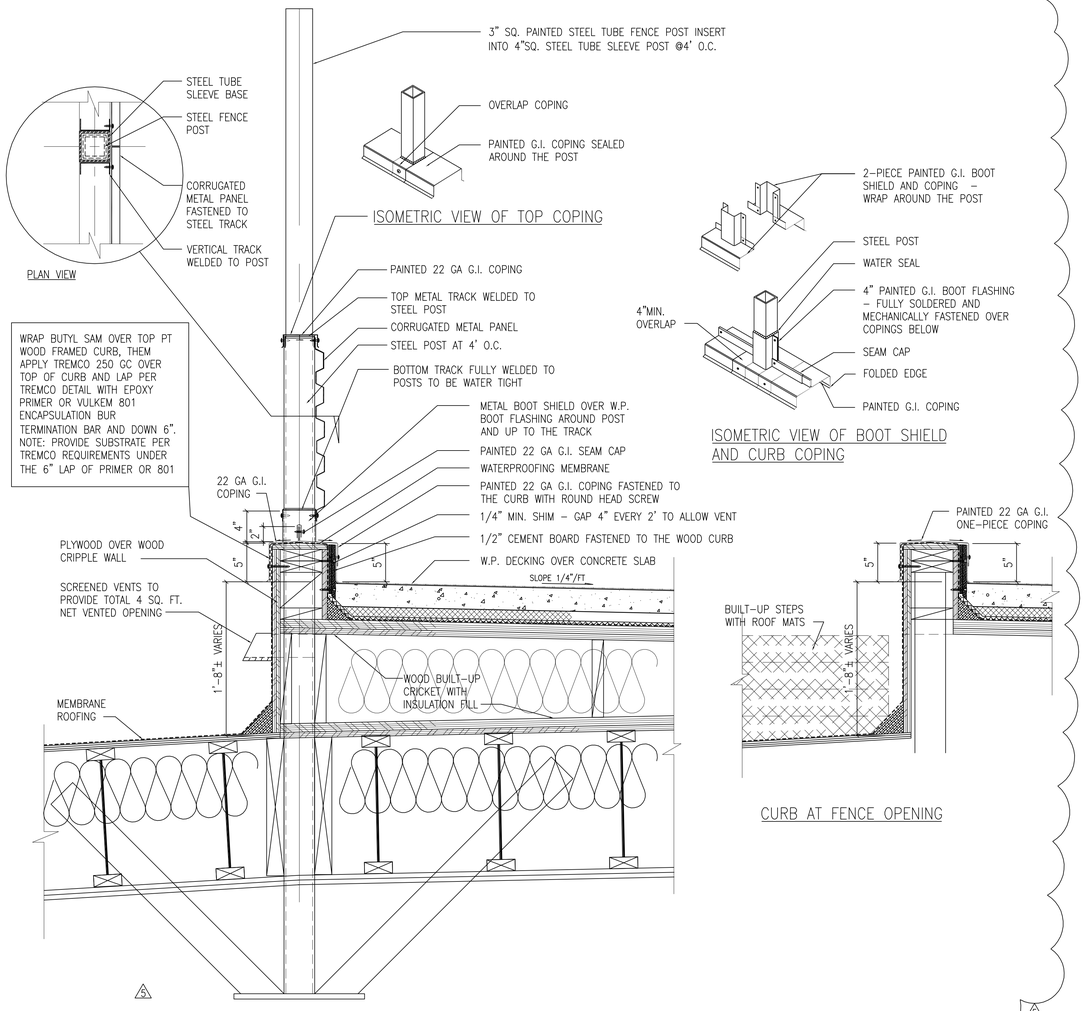
DRAWING NUMBER
A6.8



1 ROOF DECK AT PARAPET WALL



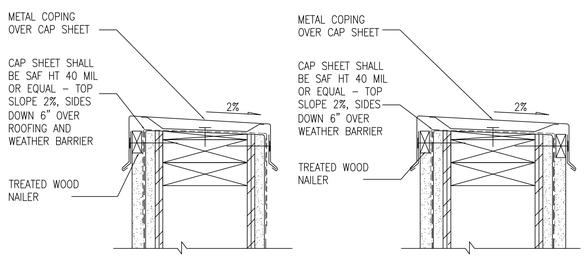
2 DECK DRAIN SIDE AT PARAPET WALL



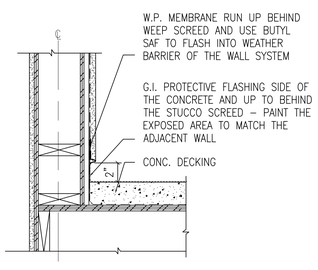
3 CONC. ROOF DECK AT FENCE WALL

ISOMETRIC VIEW OF BOOT SHIELD AND CURB COPING

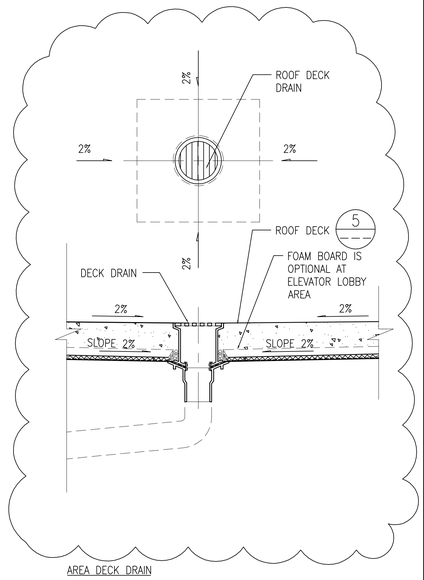
CURB AT FENCE OPENING



@ STUCCO WALL ON ONE SIDE @ STUCCO WALL BOTH SIDES



DECK WITH NO CURB @ STUCCO WALL



AREA DECK DRAIN

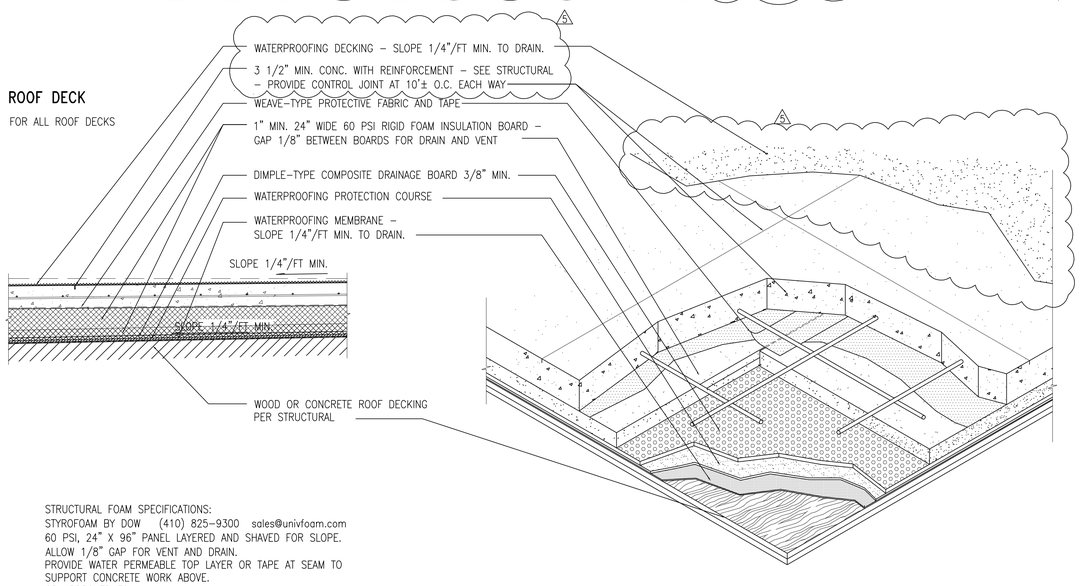
4 TYPICAL WALL AND DECK WATERPROOFING AND DRAIN DETAIL

ROOFING MEMBRANE AND DECK WATERPROOFING NOTES:

1. ROOFING MEMBRANE AND WATERPROOFING MEMBRANE SHALL HAVE 20 YEAR WARRANTY.

2. ROOFING AND WATERPROOFING MEMBRANE SHALL HAVE LARR OR ICC-ES NUMBER.

3. ROOFING AND WATERPROOFING MEMBRANE MANUFACTURER SHALL REVIEW, REVISE AND PROVIDE ALL ROOFING AND WATERPROOFING DETAILS AND SUBMIT ALL FINAL SOLUTIONS TO THE ARCHITECT FOR REVIEW.



STRUCTURAL FOAM SPECIFICATIONS:
STYROFOAM BY DOW (410) 825-9300 sales@univfoam.com
60 PSI, 24" X 96" PANEL LAYERED AND SHAVED FOR SLOPE.
ALLOW 1/8" GAP FOR VENT AND DRAIN.
PROVIDE WATER PERMEABLE TOP LAYER OR TAPE AT SEAM TO SUPPORT CONCRETE WORK ABOVE.
OR APPROVED EQUAL

5 CONCRETE ROOF DECK ASSEMBLY

FRANCO ARCHITECTS INC.
12345 Ventura Blvd. H
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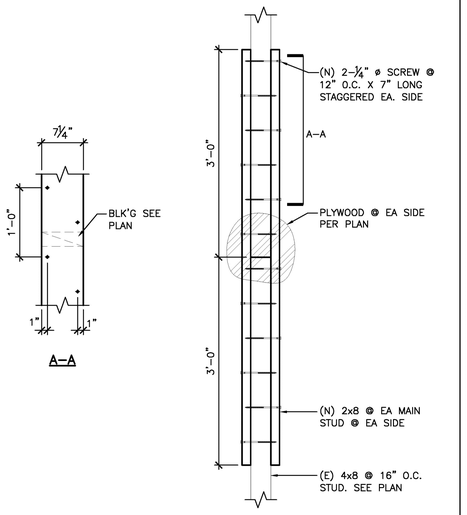
Architecture and Planning

MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE
	PLAN CHECK #1	6/14/2017
	FD PLAN CHECK	10/31/2017
	FD PLAN CHECK	12/14/2017
4	CONSULTANT REVIEW	09/02/2018
5	COORDINATION BULLETIN-5	01/10/2019

LICENSED ARCHITECT JOHANN D. FRANCO C27010 4/30/2019 RENEWAL DATE STATE OF CALIFORNIA

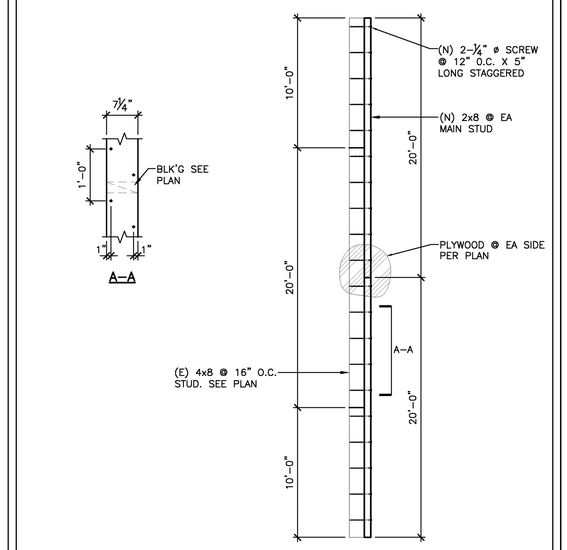
PROJECT: MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA91335
DRAWING TITLE: SECTIONS AND DETAILS
DRAWN BY:
ISSUE DATE: 01/10/2019
JOB NUMBER:
DRAWING SCALE: AS NOTED
APPROVED BY:
DRAWING NUMBER: A6.9



B & B ASSOCIATES STRUCTURAL ENGINEERS 867 N. Fair Oaks Ave., Suite 100, Pasadena, CA 91103 Tel: (626) 204-1088, Fax: (626) 204-1099 www.bnbstructural.com	OPTION 1	JOB No: 17–127
		JOB Name: MAGNOLIA SCIENCE ACADEMY
		DRAWN BY: JT / SCALE: 1"=1'–0"
		DATE: 9/17/18 / SHEET No: SK1

RE: RFI–018

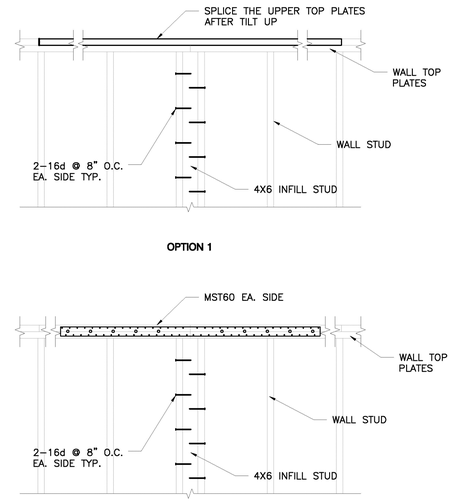
1 | TYPICAL STUD SPLICING DETAIL



B & B ASSOCIATES STRUCTURAL ENGINEERS 867 N. Fair Oaks Ave., Suite 100, Pasadena, CA 91103 Tel: (626) 204-1088, Fax: (626) 204-1099 www.bnbstructural.com	OPTION 2	JOB No: 17–127
		JOB Name: MAGNOLIA SCIENCE ACADEMY
		DRAWN BY: JT / SCALE: 3/4"=1'–0"
		DATE: 9/17/18 / SHEET No: SK2

RE: RFI–018

2 | WALL PANEL CONNECTION DETAIL



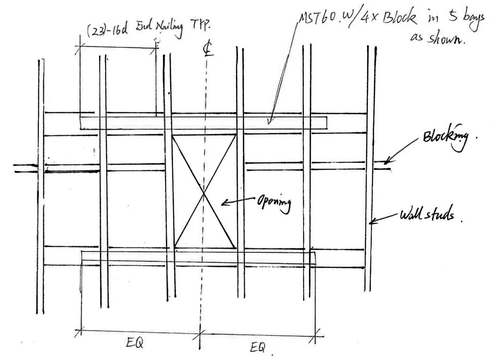
NOTE: SHEAR WALL PLYWOOD SHALL HAVE PANEL EDGE NAILING PER PLAN

B & B ASSOCIATES STRUCTURAL ENGINEERS 867 N. Fair Oaks Ave., Suite 100, Pasadena, CA 91103 Tel: (626) 204-1088, Fax: (626) 204-1099 www.bnbstructural.com	TILT-UP WOOD WALL CONNECTION	PROJECT NUMBER: 17–127
		PROJECT NAME: MSA, RESEDA
		DRAWN BY: ZC / SCALE: 3/4"=1'
		DATE: 04–11–18 / NUMBER SSK–003

RE: RFI–018

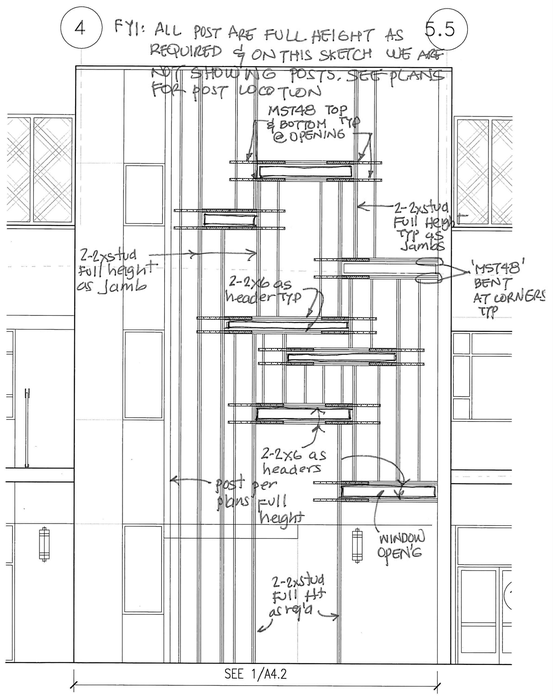
3 | FIRE EXTINGUISHER OPENING ON SHEER WALL DETAIL

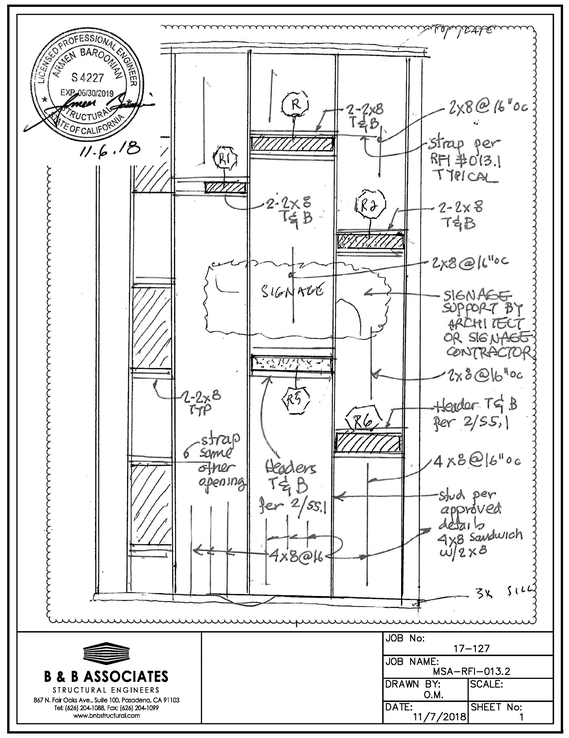
RFI 118
Magnolia Science Academy



Detail For Shear Wall with Plywood Opening: Side.

RE: RFI–118

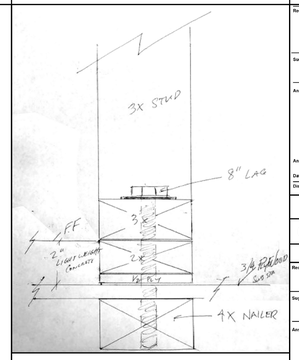




B & B ASSOCIATES STRUCTURAL ENGINEERS 867 N. Fair Oaks Ave., Suite 100, Pasadena, CA 91103 Tel: (626) 204-1088, Fax: (626) 204-1099 www.bnbstructural.com		JOB No: 17–127
		JOB NAME: MSA–RFI–013.2
		DRAWN BY: O.M. / SCALE:
		DATE: 11/7/2018 / SHEET No: 1

REF: RFI–013.1 AND RFI–13.2

4 | STAIR–2 SOUTH WALL FRAMING DETAILS



RFI–086

5 | SILL PLATE SHIM DETAIL

Request:
Requested by Jeff Rich, CCCO.
53.0 calls out for ¼" plywood AND 1 1/8" plywood per note 1 over the entire roof area.
Please confirm that the 1 1/8" plywood is only installed over the playground area.
Reference: S3.0

Suggestion:

Answer: ☐ Accept Suggestion
Per detail 13/S7.0, 1 1/8" plywood is only at play yard area.

Answered By: OM
Date: B&B Associates November 30,2018

Distribution:

RE: RFI–122

6 | PLYWOOD AREA CLARIFICATION

Request:
Requested by CCCO Watt, Kris Johnston:
Plywood Confirmation, please see attachment.

Suggestion:
Question from QC: The RFI should have asked the following: The lumber yards do have struct 1 material in 1-1/8". Is it ok to use the struct 1 (same 1-1/8") if exposer 1 material is not available.

Answer: ☐ Accept Suggestion
Yes, it is OK to use 1 1/8" structural I plywood.

Answered By: Z.C.
Date: 11-27-2018

RE: RFI–115

7 | ALTERNATIVE PLYWOOD SPEC.

FRANCO ARCHITECTS INC.
22345 Ventura Blvd. H
Studio City, CA 91604
Tel 818 784-2020
Fax 818 784-2022
Architecture and Planning

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STRUCTURAL ENGINEERS
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Tel: (626) 204-1088, Fax: (626) 204-1099
www.bnbstructural.com

MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE
1	PLANNING SET REVISIONS	01/10/2019

LICENSED PROFESSIONAL ENGINEER ARMEN BARGOUMIAN S 4227 EXP. 05/30/2019 STRUCTURAL STATE OF CALIFORNIA
1.9.19

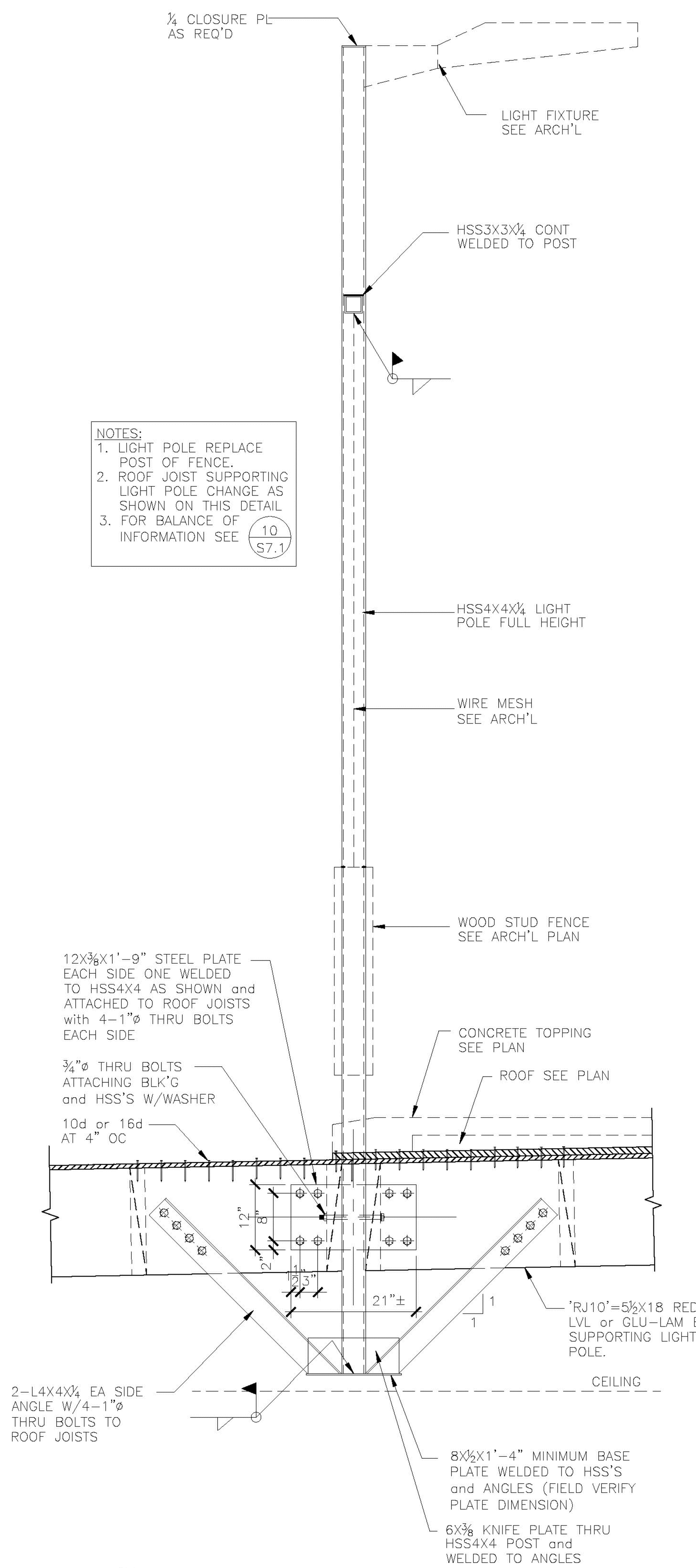
PROJECT
MAGNOLIA SCIENCE ACADEMY

PROJECT ADDRESS
18220 SHERMAN WAY, RESEDA, CA91335

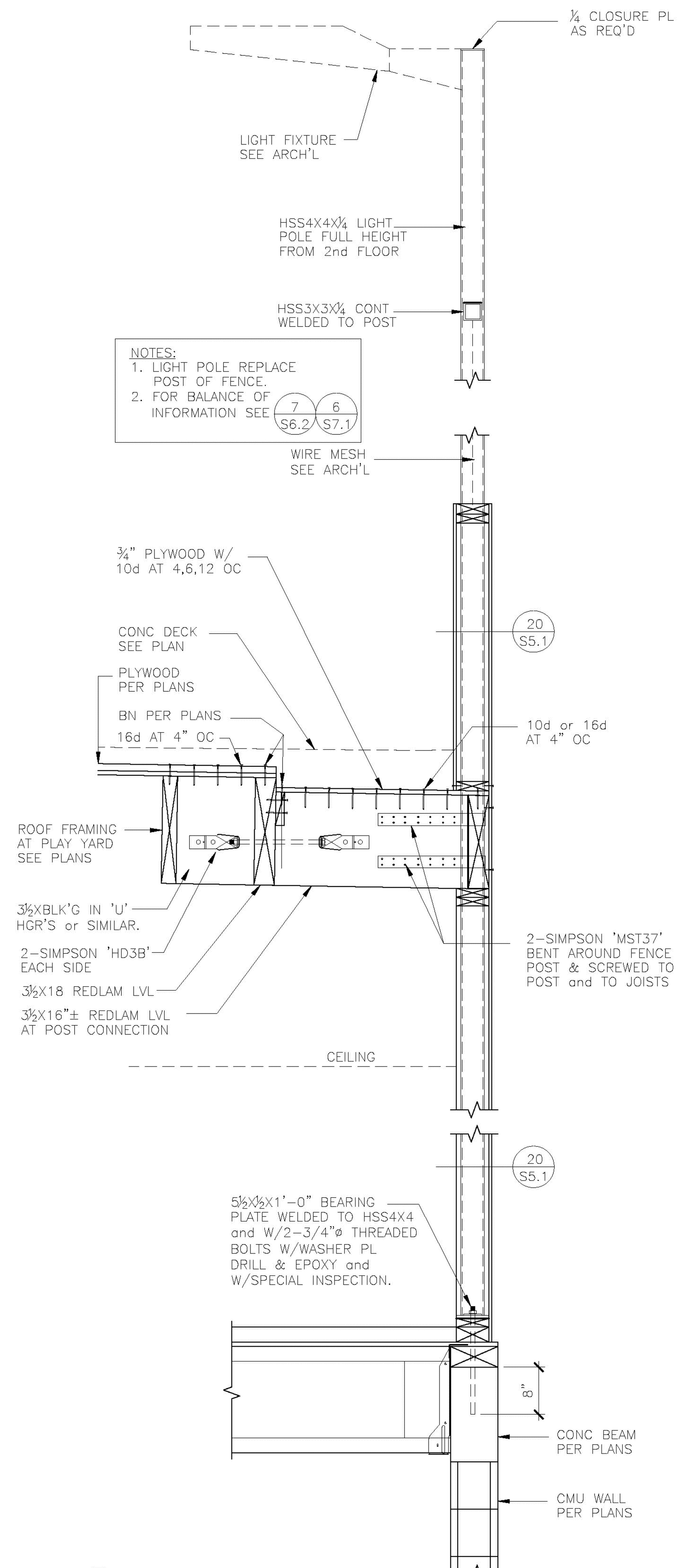
DRAWING TITLE
MISCELLANEOUS DETAILS

DRAWN BY: / ISSUE DATE: 01/02/2019
JOB NUMBER: / DRAWING SCALE: AS NOTED
APPROVED BY:

DRAWING NUMBER
S9.0



A LIGHT POLE ON ROOF FRAME
SCALE: 3/4"=1'-0"

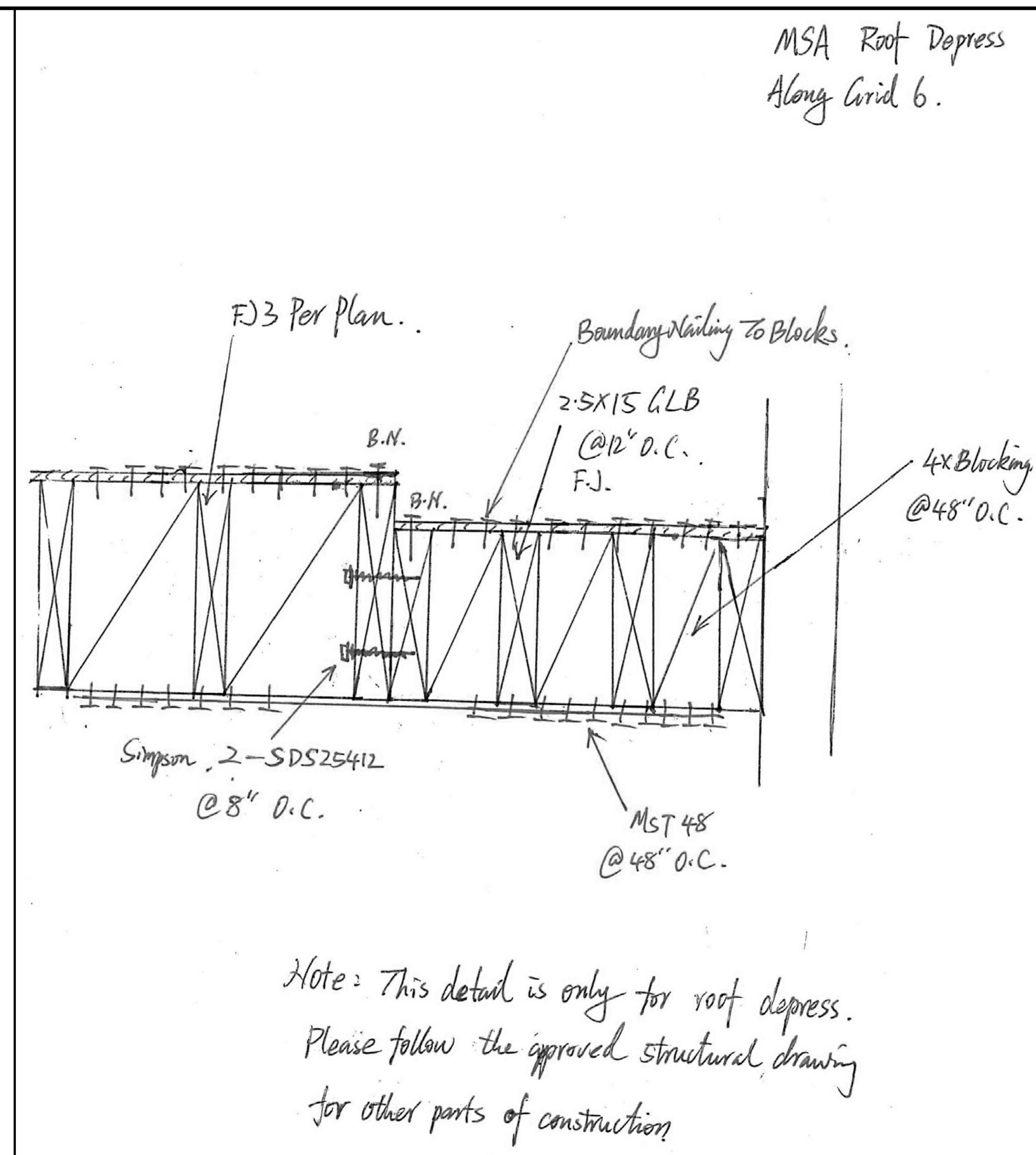


B LIGHT POLE AT GRID LINE 6
SCALE: 3/4"=1'-0"

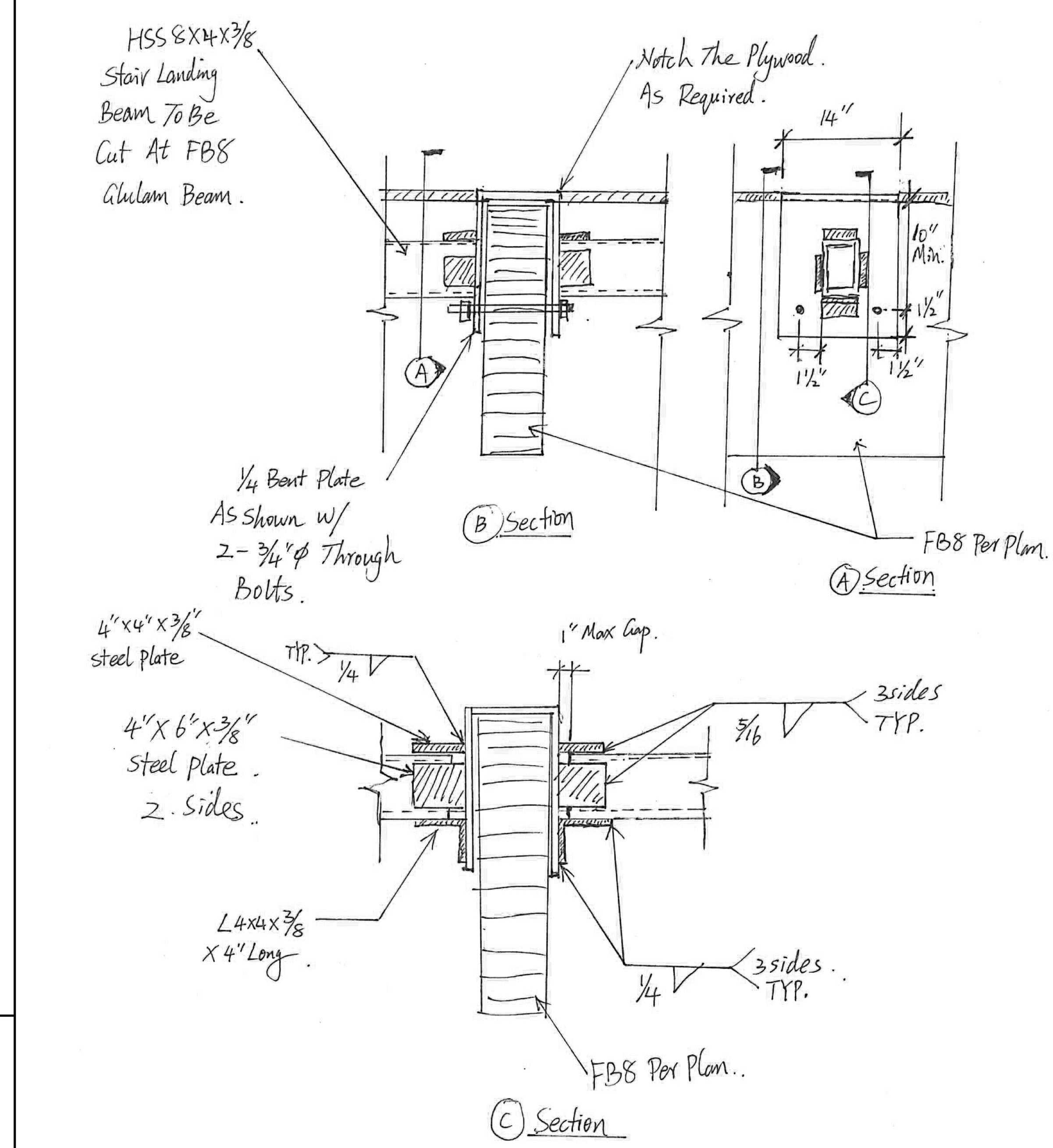
SSK-004

REF. RFI #73
9/25/2018

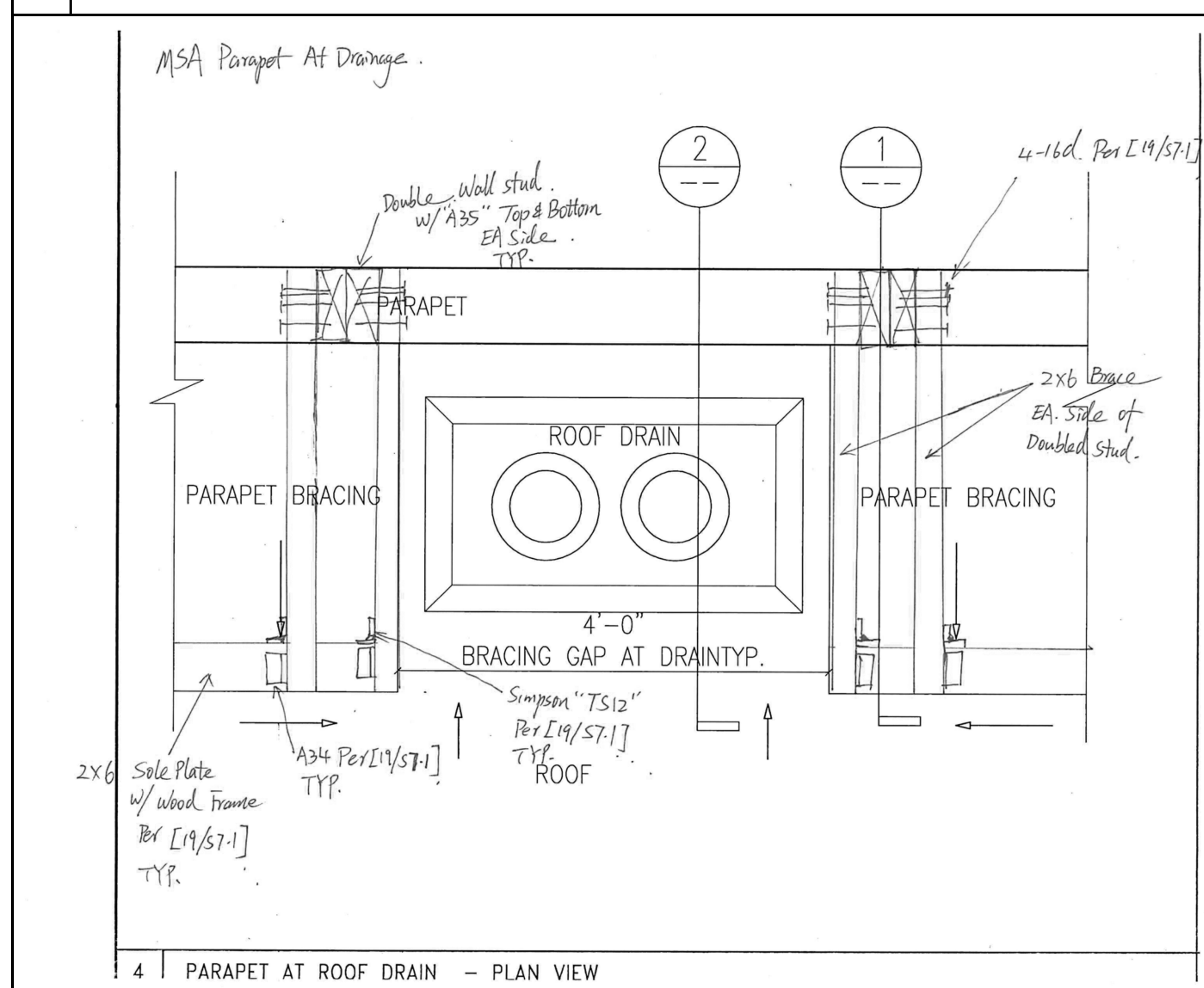
3 ROOF TOP FENCE POLE WITH LIGHT FIXTURE



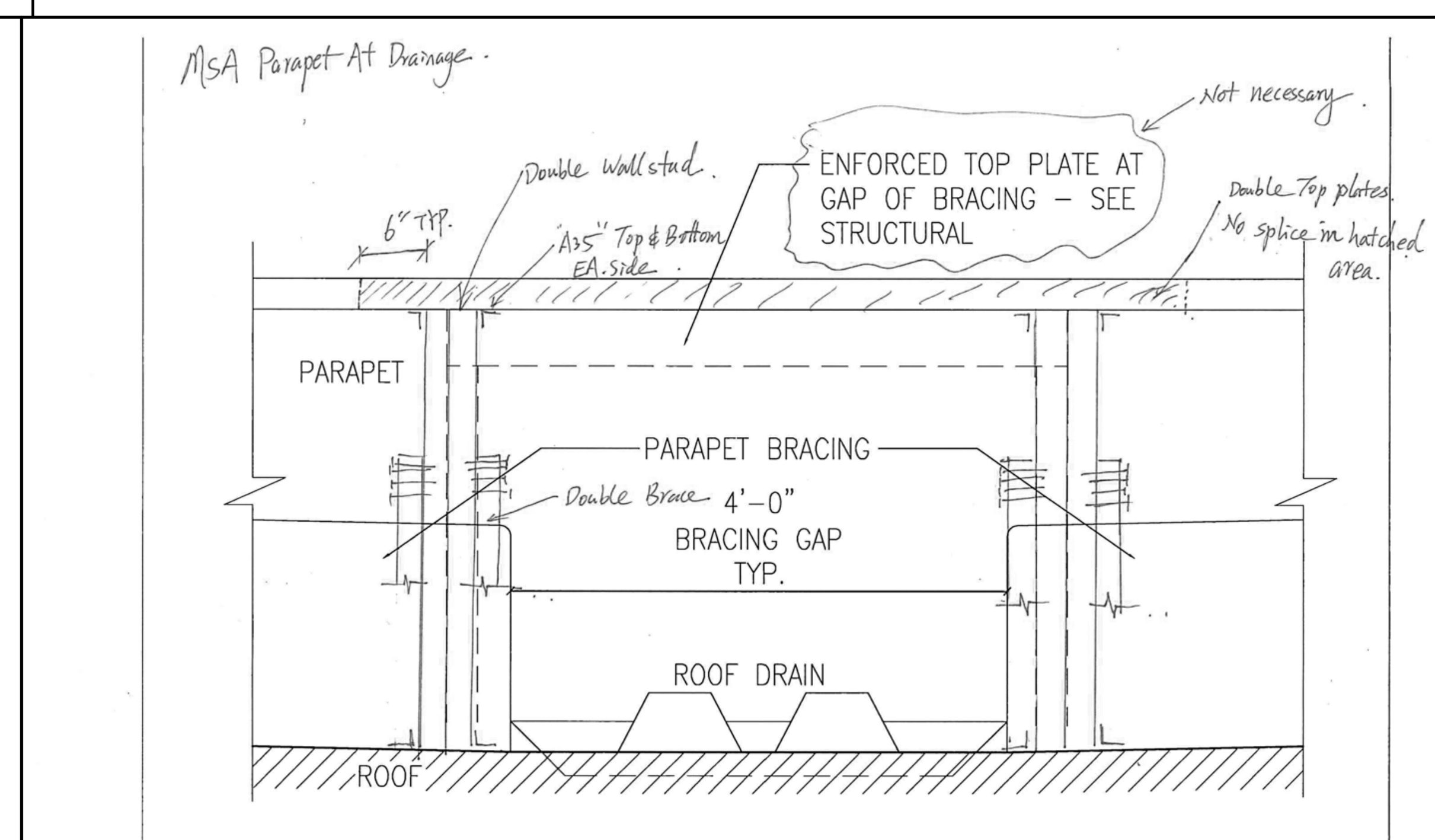
1 ROOF DEPRESS FRAMING DETAIL



2 STAIR-1 ROOF BEAMS CROSSING DETAIL



4 PARAPET AT ROOF DRAIN – PLAN VIEW



3 PARAPET AT ROOF DRAIN – INSIDE ELEVATION

4 PARAPET BRACING GAP AT ROOF DRAIN

FRANCO ARCHITECTS INC.
12345 Ventura Blvd. H
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B & B ASSOCIATES
STRUCTURAL ENGINEERS

MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE
4	SUMMARY OF SKETCHES	01/10/2019

1.9.19

PROJECT: MAGNOLIA SCIENCE ACADEMY

PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA91335

MISCELLANEOUS DETAILS

01/02/2019

AS NOTED

S9.1

01-8-2019

Trevor,

As I had indicated earlier to you and to Patrick, due to conflicts in detailing and changes made in waterproofing Intertek needs to add to its estimated contractual PM allowance relating to waterproofing at the roof of the structure.

Intertek accounting operates on an accrual system requiring a positive allowance amount listed in contractual agreement to bill against. We have exceeded those allowances and must request an additional amount be added to our allowances in the form of a change order to move forward.

I must apologize for not approaching this earlier, but at the time, I was not privy to the accounting for the project as this project was initially handled by another PM.

Construction management time already expended beyond the allowance estimate in the contract is 22+ hours, reviewing changes, details, and suggesting positive solutions. The markup process of the peer review at the roof deck became an ongoing process with little or no response or resolution apparent from the Architect when the peer review was presented.

Additional consulting time was involved working with the Carlisle Syntec team attempting to find a way to obtain a warranty. Carlisle PVC as called out in the contract documents under a topping slab typically is not warranted by Carlisle, unless electronic leak detection is installed, and further, it is not compatible with a BUR asphaltic product.

Intertek also presented multiple combinations of products that would be of benefit to the PE functionality at the roof and be plausible solutions to waterproof the roof areas:

1. A flat surfaced usable P.E. deck with pavers over an accessible sloped single membrane system.
2. Providing tapered insulation below the slab at roof deck to provide a more acceptably (less) sloped concrete slab play surface, while providing the necessary height at the juncture with the BUR to fulfill warranty requirements for that product.

With our contractual agreement being with the General Contractor Oltmans Construction, their communication has been beyond adequate, however communication has been relatively infrequent, or less, with the Architect.

Intertek typically has not been informed of or consulted regarding proposed changes in the waterproofing of the roof. Our last meeting (December 2018) for example, was the first Intertek was informed of proposed use of TREMCO 250 GC beneath the topping slab (there had been no contact from the Architect since the previous pre-con meeting). (Our contact was with Oltmans, however we copy our comments to Johann at Franco Architects.)

Their choice of a polyurethane membrane unfortunately did not consider or resolve the BUR contractor's concern regarding their warranty requirements, which typically requires an 8" curb to terminate, with the contractor hesitant to accept a transitional detail provided by Tremco between the two "incompatible materials". We discussed several options at the meeting, that could work. The resultant solution of the meeting was to have Franco Architects deliver a series of option drawings the following Friday to all for review.

01-8-2019

Intertek was again not included in the distribution of the Architect's Option drawings. When we didn't receive the option drawings on the scheduled Friday, I contacted Trevor for an update the following Monday, and was forwarded the drawings. Those drawings were reviewed with comments made by Intertek and returned to Trevor for distribution. Project Management time required for this review was included in the 22+hours amounting to $3386 already expended beyond the contracted allowance amount.

We request a change order increasing the PM allowance by $4886 to cover the already expended time ($3386) and including an allowance amount of $1000 (5.75 hrs) for the upcoming review of the B-1 Bulletin coming from the Architect.

We have just been forwarded Thursday 17th, at 5 PM, the Architect's Bulletin 4 & 5. It was issued the previous Friday by the Architect, with a return date for comments to be completed by Monday 21 January, which is today.) I will be requesting additional time from the Architect for presenting review comments.

Additional project management costs associated with the review of Bulletin 4 & 5 will be billed hourly against our change order allowance listed above and will begin upon approval of this request for change order. Hourly allowance amounts are only billed for if utilized, and any remaining amount in the allowances remain with Oltmans.

An alternate solution to creating a change order, could be: pay the $3886 as Additional Services performed, and any forthcoming time spent in review of the B-1 Bulletin, billed out at the standard rate for services, per contract, with review of the Bulletin 4&5 being payable upon receipt of billing.

We have two very important quality assurance site visits yet to occur during the roof construction, providing observation and resulting logs per contract. This roofing assembly is extremely important to the longevity of the building. Due to the urgency of schedule, please respond asap.

Best regards,

Richard Anthony Moren

Project Manager

Intertek

Building Science Solutions

Building and construction

Lake Forest, CA 92630

richard.moren@intertek.com

Armstrong & Aceves Company, Inc.

Change Request

To: TREVOR LAWTON
OLTMANS CONSTRUCTION
10005 MISSION MILL RD.
WHITTIER, CA 90601
Ph: 562-948-4242 Fax: 562-695-9267

Number: 6
Date: 1/24/19
Job: 1-477 Magnolia Science Center
Phone:

Description: INSTALLATION OF SELF - ADHERED UNDERLAYMENT BENEATH THE COPING CAP ON THE PLAYGROUND DECK
Reason: Field Condition
Initiated by: JEFF RICH (OLTMANS CONSTRUCTION)

We are pleased to offer the following specifications and pricing to make the following changes:

TO FURNISH AND INSTALL SELF - ADHERING UNDERLAYMENT 300' BENEATH THE COPING CAP ON THE PLAYGROUND DECK.

Work performed by us:

Description	Quantity	Unit	Unit Price	Price
SELF-ADHERING UNDERLAYMENT 300'	5.00	ea	$132.00	$660.00
LABOR - INSTALLATION 2DAYS 2GUYS	24.00	hrs	$65.00	$1,560.00
			Subtotal:	$2,220.00

			Subtotal:	**$2,220.00**
MATERIAL TAX	$660.00		9.00%	$59.40
O H & p	$2,279.40		10.00%	$227.94
			Total:	**$2,507.34**

The schedule will be TBD.

If you have any questions, please contact me at 951-284-3456.

Submitted by: ANJ ARZAGA
ARMSTRONG & ACEVES COMPANY

Approved by: _____
Date: _____

Cc: TOM GALAN (ARMSTRONG & ACEVES, JAY ARZAGA (ARMSTRONG & ACEVES COMPANY)

Armstrong & Aceves Company, Inc.

Change Request

To: TREVOR LAWTON
OLTMANS CONSTRUCTION
10005 MISSION MILL RD.
WHITTIER, CA 90601
Ph: 562-948-4242 Fax: 562-695-9267

Number: 5R1
Date: 1/23/19
Job: 1-477 Magnolia Science Center
Phone:

Description: COST IMPACT PER BULLETIN 4 & 5

We are pleased to offer the following specifications and pricing to make the following changes:

PER BULLETIN 4 & 5 PLAN PAGES A3.1,A6.8/2 , A6.9/3

ADDED 24GA. SHOP FABRICATED DOMER VENTS AS PER A 6.8/2
ADDED 24GA. PREFINISH EXPOSED FASTENER 7.2 CORRUGATED PANELS AS PER A 6.9/3 MECHANICALLY ATTACHED TO STRUCTURAL FRAMING INSTALLED BY OTHERS.
TRIMS FOR PANELS (30')

Work performed by us:

Description	Quantity	Unit	Unit Price	Price
PREFINISH 24GA. EXPOSED FASTENER 7.2 CORRUGATED PANELS	100.00	sqft	$16.00	$1,600.00
24GA. GALVANIZED SHOP FABRICATED DOMER VENTS	15.00	ea	$295.00	$4,425.00
PREFINISH TRIMS FOR PANELS/FENCE	30.00	lf	$14.00	$420.00
FASTENERS	1.00	lot	$50.00	$50.00
FREIGHT	1.00	lot	$125.00	$125.00
PACKAGING	1.00	lot	$100.00	$100.00
			Subtotal:	$6,720.00

		Subtotal:	**$6,720.00**
MATERIAL TAX	$6,495.00	9.00%	$584.55
OH & P	$7,304.55	10.00%	$730.46
		Total:	**$8,035.01**

If you have any questions, please contact me at 951-284-3456.

Submitted by: ANJ ARZAGA
ARMSTRONG & ACEVES COMPANY

Approved by: _____
Date: _____

Cc: TOM GALAN (ARMSTRONG & ACEVES, JAY ARZAGA (ARMSTRONG & ACEVES COMPANY)

Armstrong & Aceves Company, Inc.

Change Request

To: TREVOR LAWTON
OLTMANS CONSTRUCTION
10005 MISSION MILL RD.
WHITTIER, CA 90601
Ph: 562-948-4242 Fax: 562-695-9267

Number: 3
Date: 10/30/18
Job: 1-477 Magnolia Science Center
Phone:

Description: RFI #052 Deductive Coping at CMU Top

We are pleased to offer the following specifications and pricing to make the following changes:

Please see attached credit for coping at CMU top.

Work performed by us:

Description	Quantity	Unit	Unit Price	Price
24GA Galvanized	5.00	sheet	$-38.00	$-190.00
Shop Labor	4.00	hr	$-45.00	$-180.00
Coping Installation Labor	16.00	hr	$-65.00	$-1,040.00
			Subtotal:	$-1,410.00

			Subtotal:	**$-1,410.00**
	Tax	$190.00	-9.00%	$-17.10
			Total:	**$-1,427.10**

If you have any questions, please contact me at 951-284-3456.

Submitted by: Michael Vides
ARMSTRONG & ACEVES COMPANY

Approved by: _____
Date: _____

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

REQUEST FOR INFORMATION
RFI-052

SUBJECT:	Galvanized Metal Flashing on Exterior CMU Wall Confirmation	**DATE:**	08/01/2018
PROJECT:	Magnolia Science Academy	**PROJECT NO.:**	18049
		REQUIRED:	08/06/2018
TO:	Etmny Cornejo	**COST IMPACT:**	POTENTIALLY
	Franco Architects Inc.	**DAYS IMPACT:**	POTENTIALLY
FROM:	Olivia Sanchez		
	Oltmans Construction Co.		

Co-Author: **Contact:** **Co-Author RFI Number:**

Request:

Refer to: 1/D2.0

Please confirm it is acceptable to pour the concrete swale from wall to wall with the existing building, omitting the 24 ga. metal flashing. If so, please also confirm that the new block wall and the existing block wall are to be painted with Elastomeric "Enduralistic 10", extending at least 10" up from swale.

_

Suggestion:

Answer: ☐ **Accept Suggestion**

PROPOSED ARE CONFIRMED.

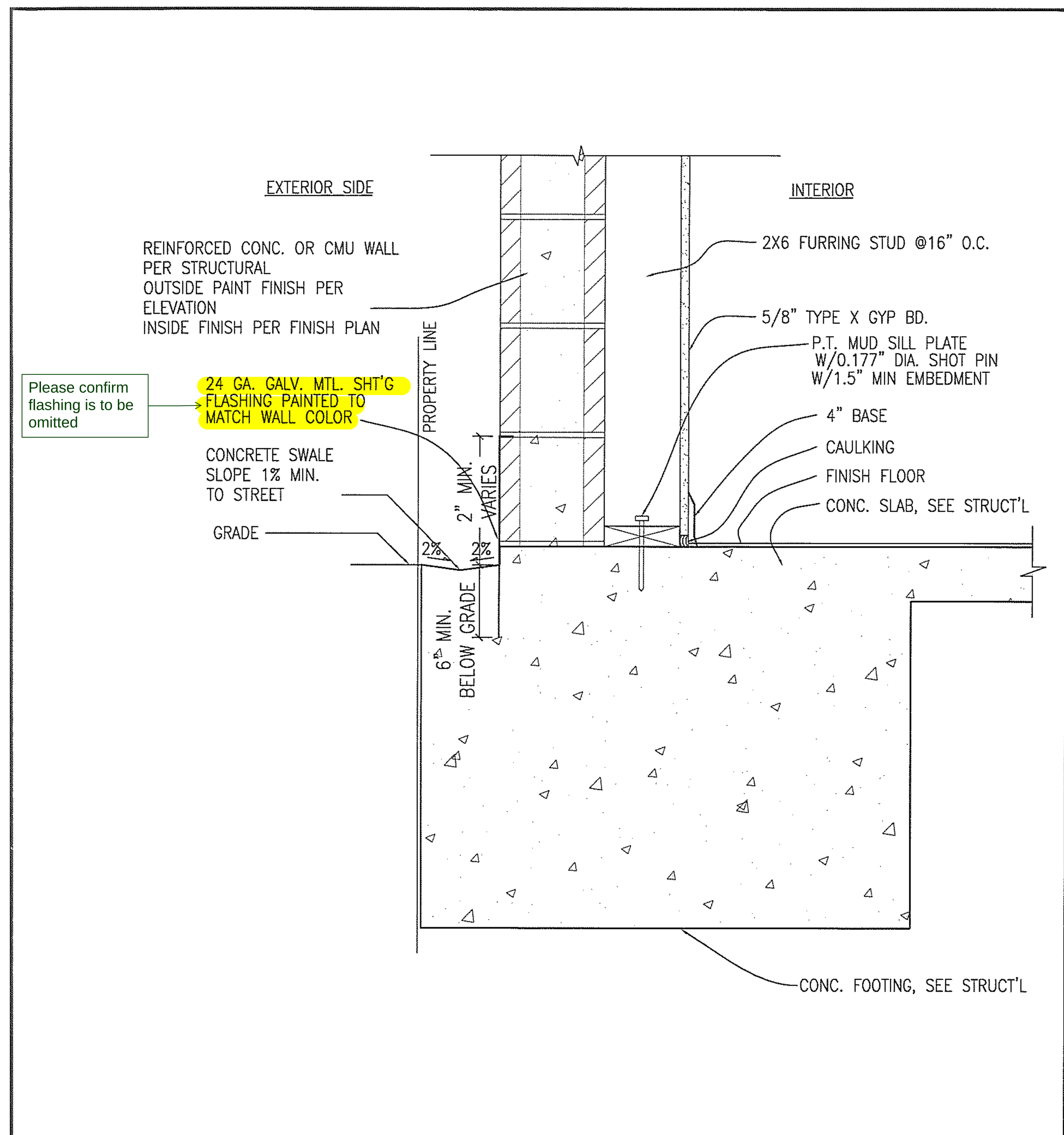
Johann Wang

Answered By:

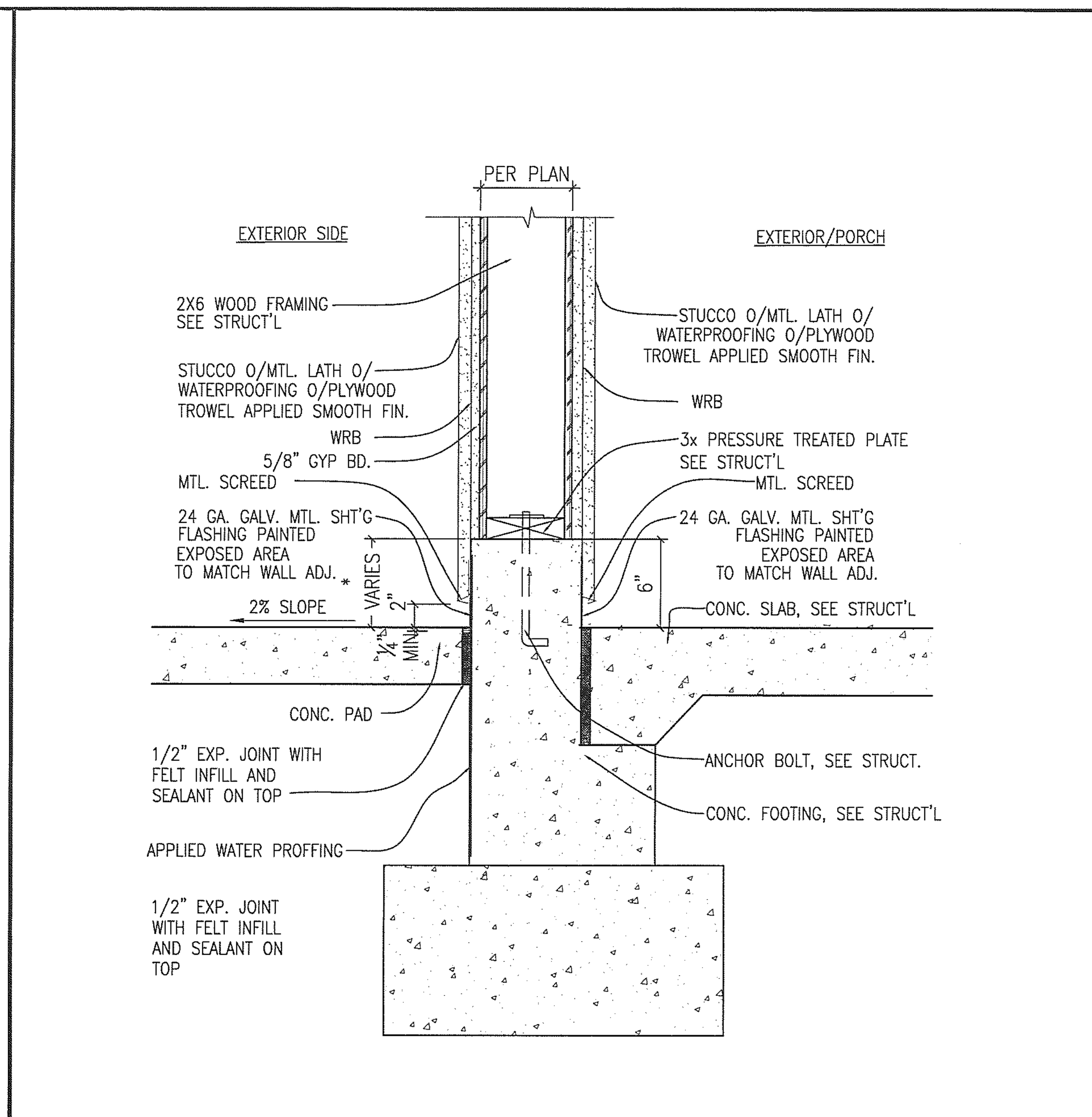
Date: 8/13/2018

Distribution:

Contact	Company
Devin Ulibarri	Oltmans Construction Co.
Jeff Rich	Oltmans Construction Co.
Johann Wang	Franco Architects Inc.
Karen Montalvo	Franco Architects Inc.
Stephanie Liu	Franco Architects Inc.
Sarineh Minasian	Franco Architects Inc.
Tim Buresh	Magnolia Educational and Research Foundation

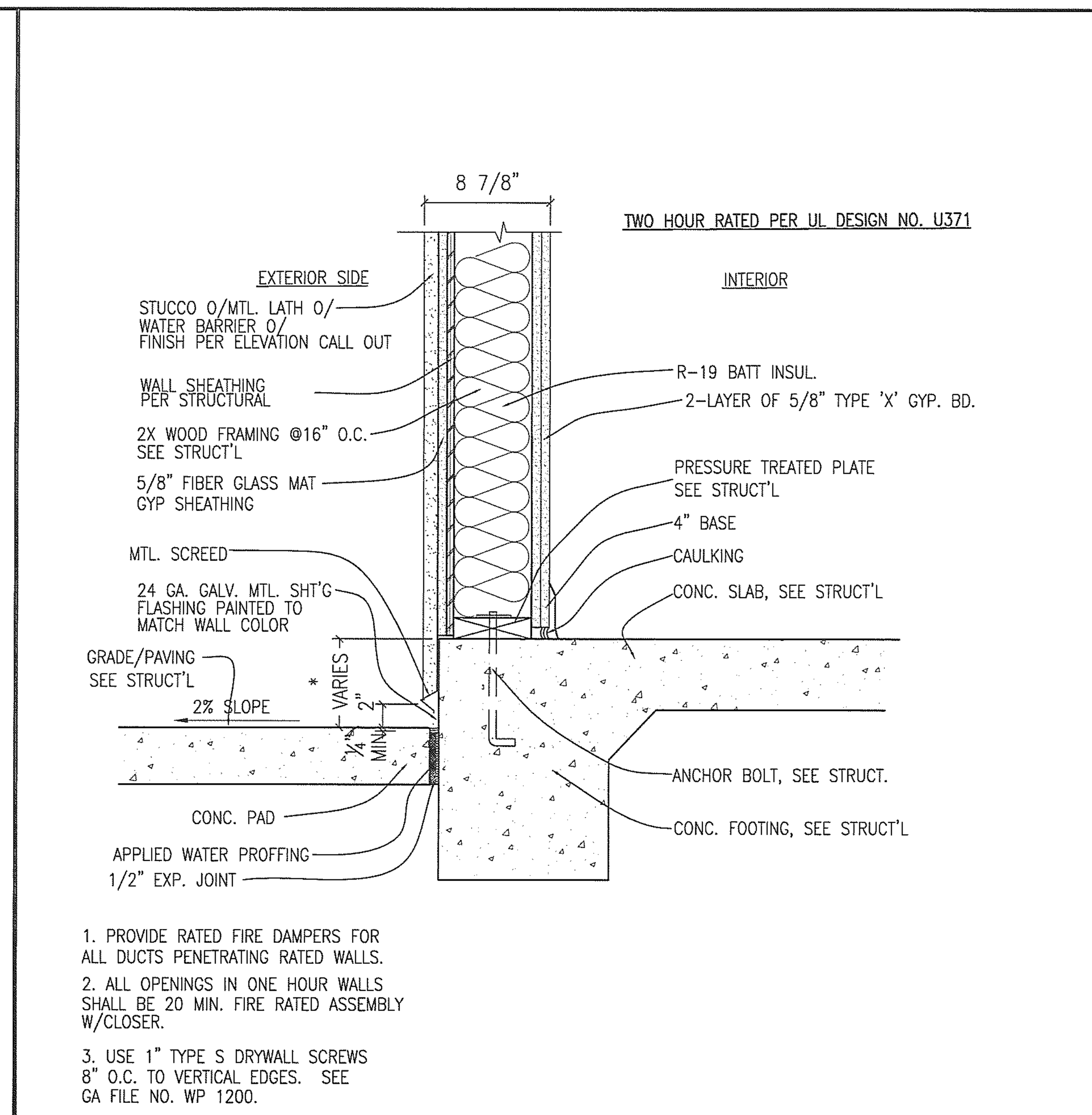


1 2-HR EXTERIOR CONC./CMU WALL W/FURRING STUD
SCALE: 1 1/2"=1'-0"



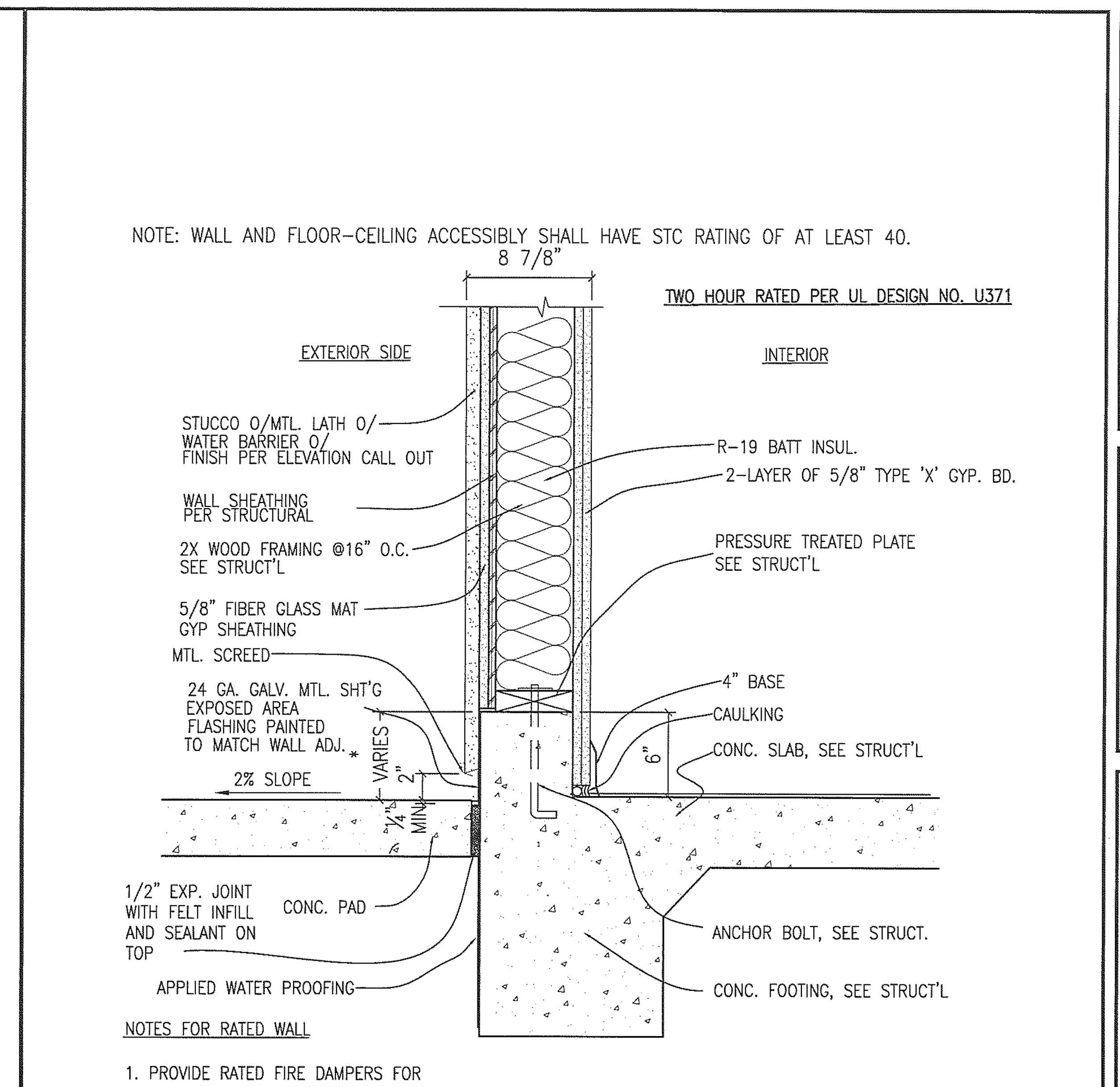
TYPE III CONSTRUCTION–FIRE–RETARDANT–TREATED WOOD FRAMING WITHIN EXTERIOR WALL ASSEMBLIES OF A 2–HOUR RATING COMPLYING WITH SECTION 2303.2.

3 2-HR EXTERIOR STUD WALL @ NORTH CANOPY
SCALE: 1 1/2"=1'-0"



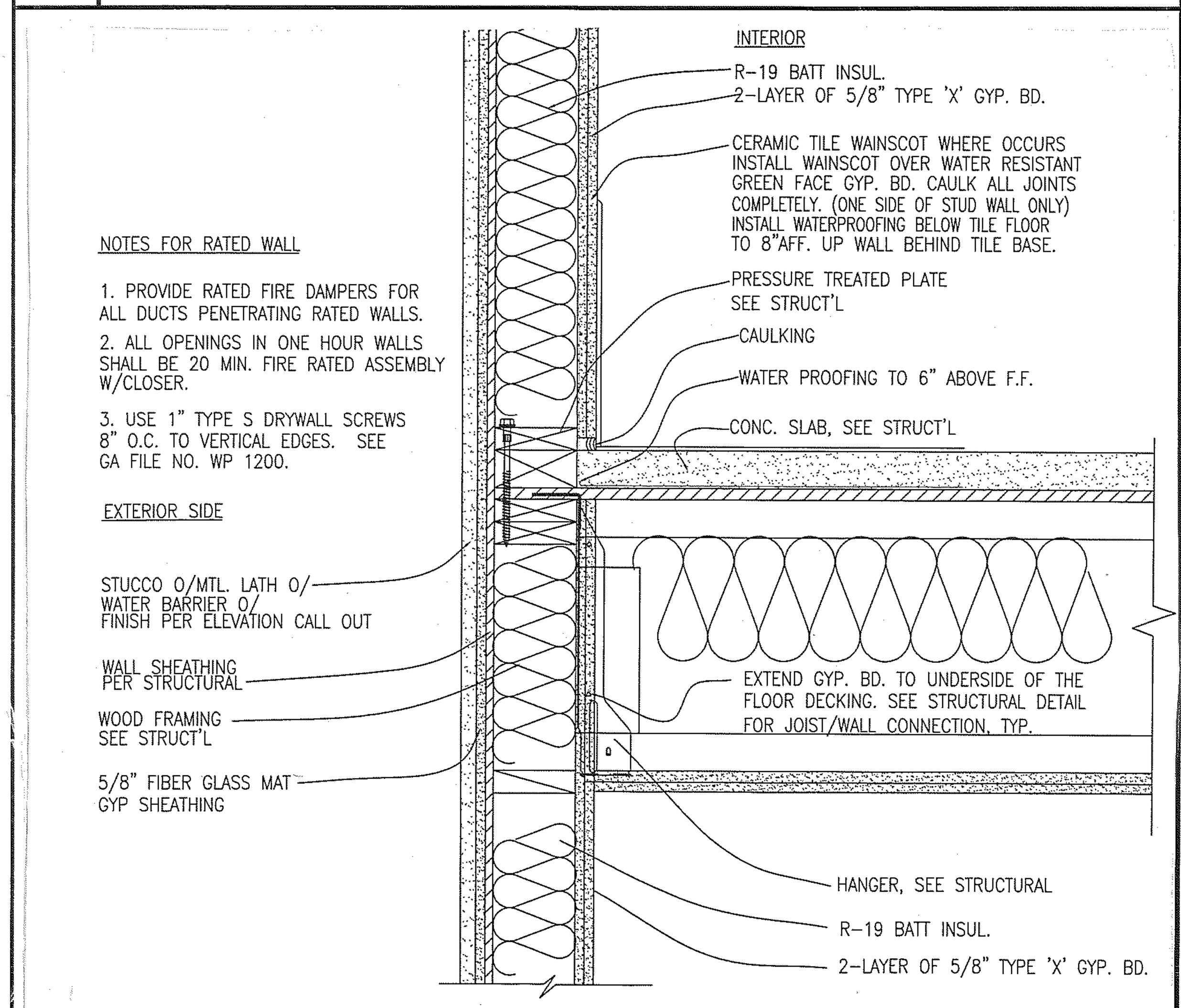
TYPE III CONSTRUCTION–FIRE–RETARDANT–TREATED WOOD FRAMING WITHIN EXTERIOR WALL ASSEMBLIES OF A 2–HOUR RATING COMPLYING WITH SECTION 2303.2.

4/4A 2-HR EXTERIOR STUD WALL
SCALE: 1 1/2"=1'-0"



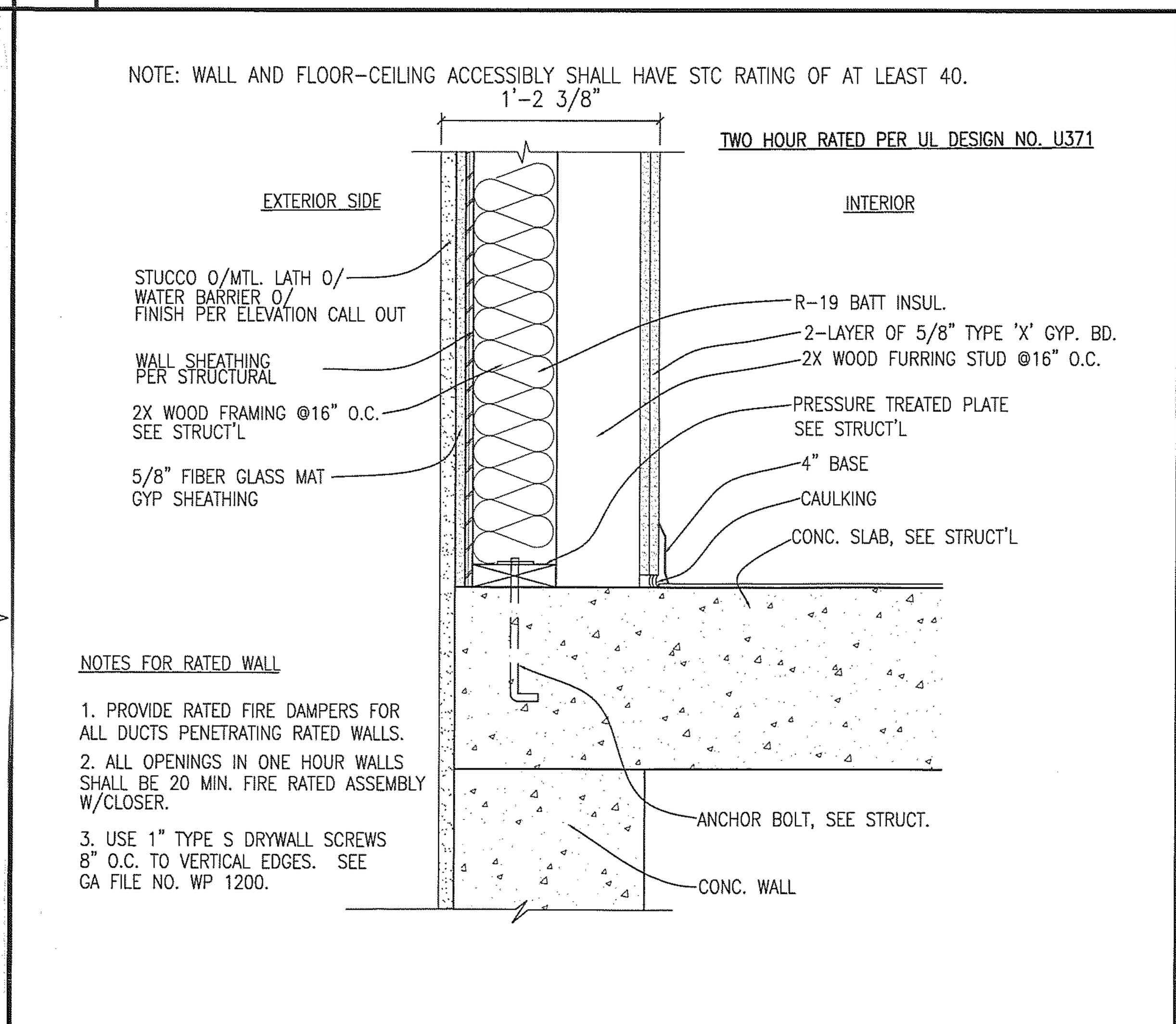
5A: SAME AS 5, EXCEPT PLYWOOD ON BOTH SIDES OF STUD, SEE STRUCTURAL
TYPE III CONSTRUCTION–FIRE–RETARDANT–TREATED WOOD FRAMING WITHIN EXTERIOR WALL ASSEMBLIES OF A 2–HOUR RATING COMPLYING WITH SECTION 2303.2.

5/5A 2-HR EXTERIOR STUD WALL@ ENTRANCE
SCALE: 1 1/2"=1'-0"



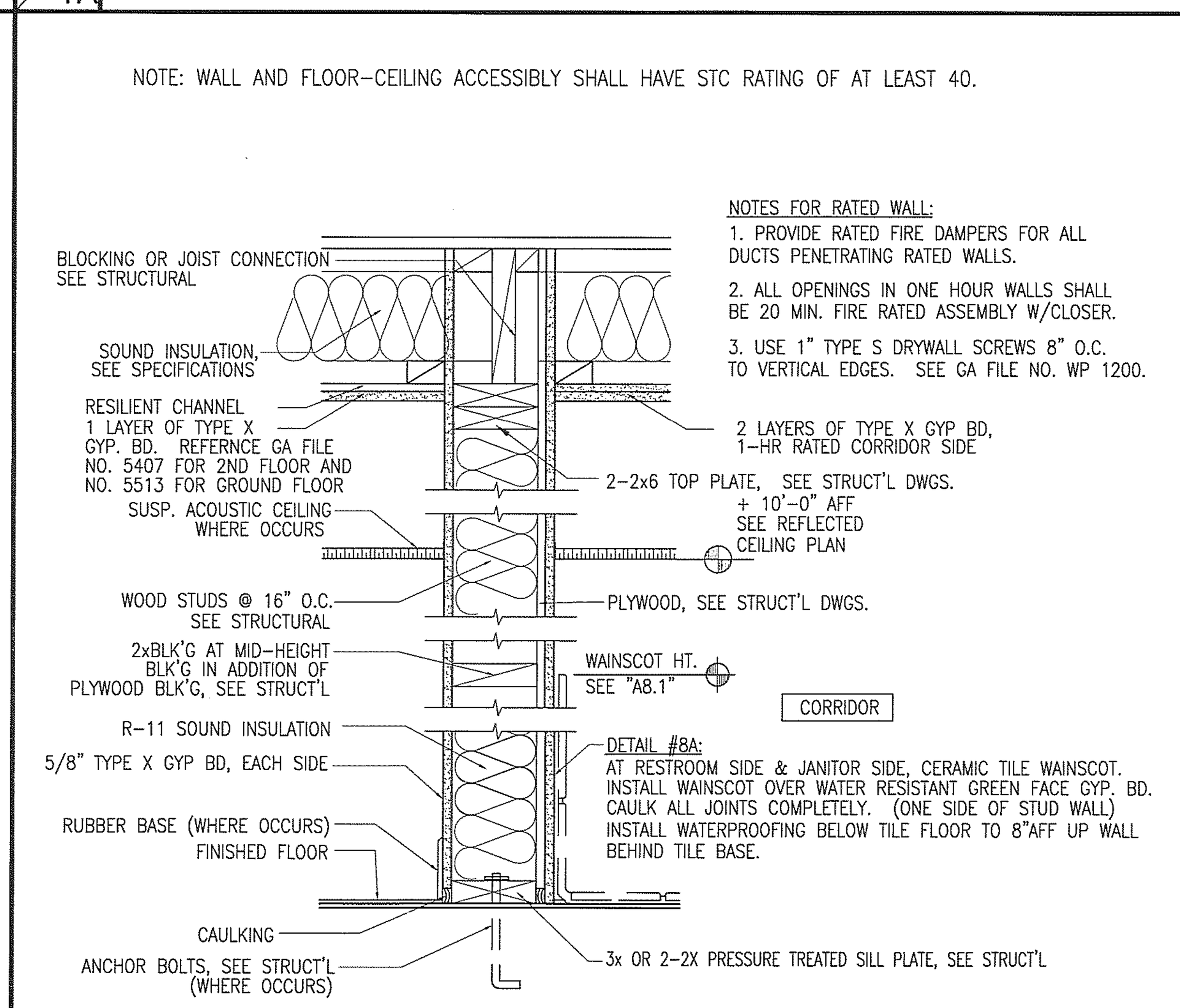
NOTES: 1. WALL AND FLOOR–CEILING ACCESSIBLY SHALL HAVE STC RATING OF AT LEAST 40.
2. TYPE III CONSTRUCTION–FIRE–RETARDANT–TREATED WOOD FRAMING WITHIN EXTERIOR WALL ASSEMBLIES OF A 2–HOUR RATING COMPLYING WITH SECTION 2303.2.

6 2-HR EXTERIOR STUD WALL @ INTERIOR WET AREA
SCALE: 1 1/2"=1'-0"

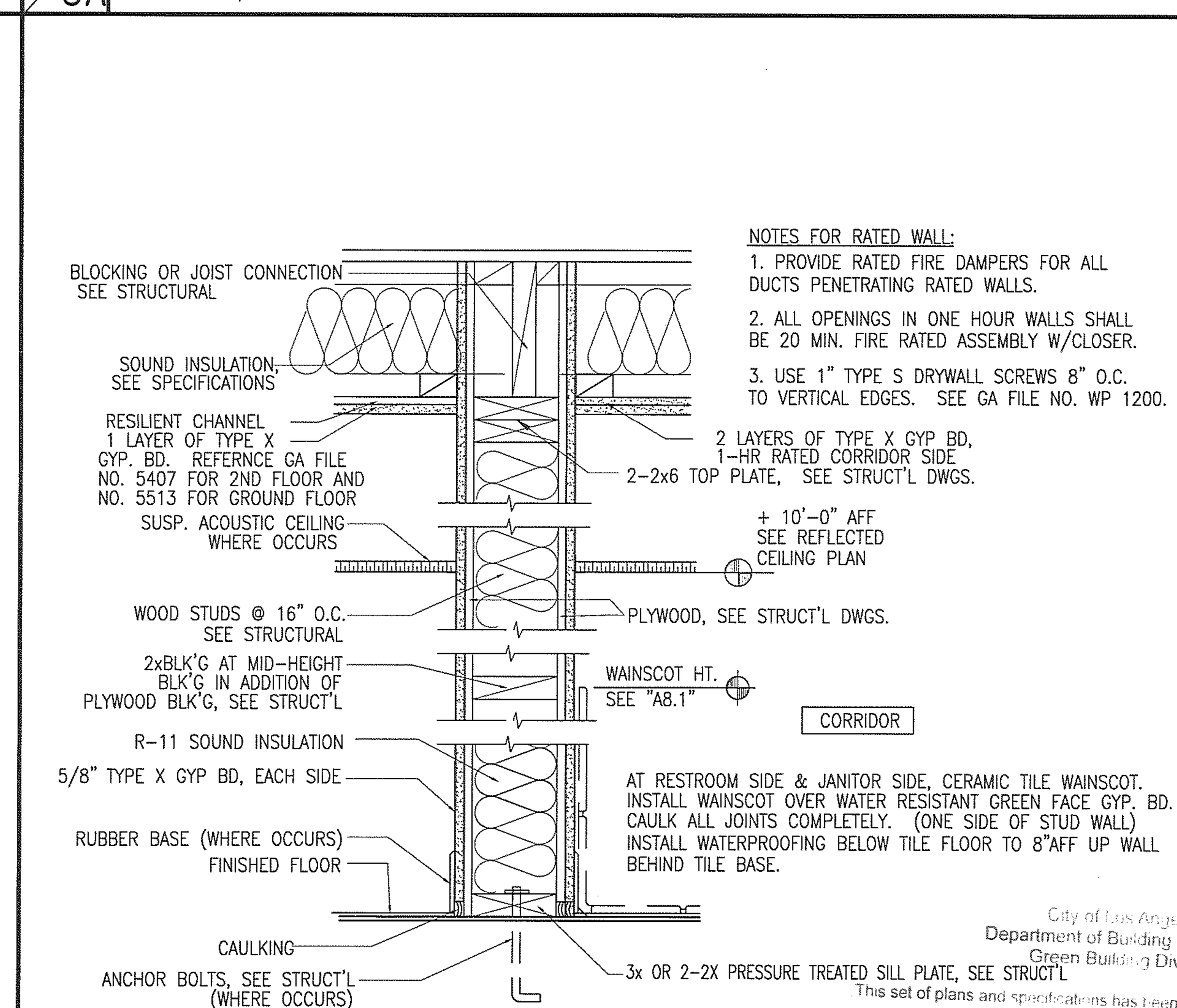


TYPE III CONSTRUCTION–FIRE–RETARDANT–TREATED WOOD FRAMING WITHIN EXTERIOR WALL ASSEMBLIES OF A 2–HOUR RATING COMPLYING WITH SECTION 2303.2.

7 2-HR EXTERIOR STUD WALL W/ FURRING STUD
SCALE: 1 1/2"=1'-0"



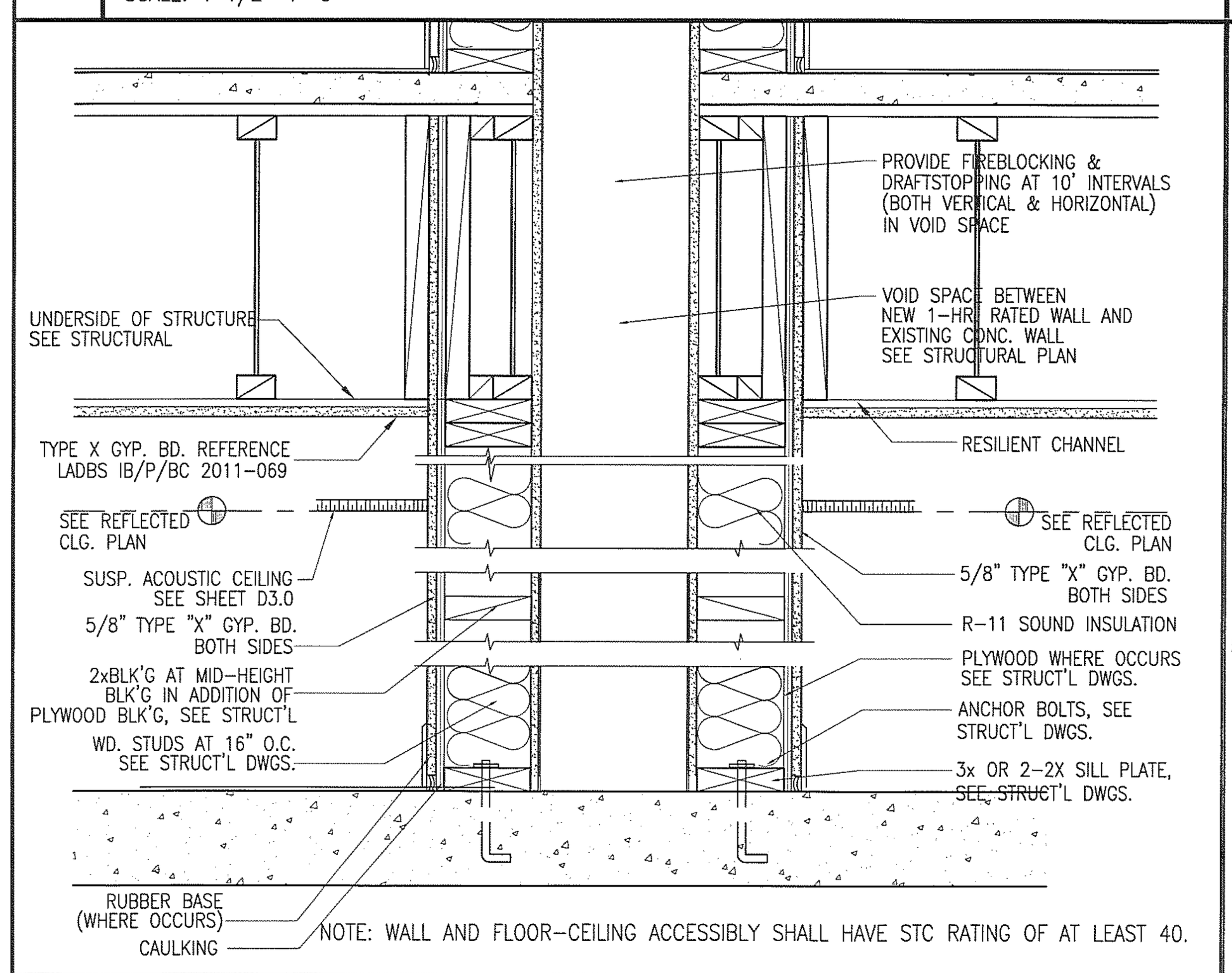
8/8A 1-HR RATED INTERIOR WALL
SCALE: 1 1/2"=1'-0"



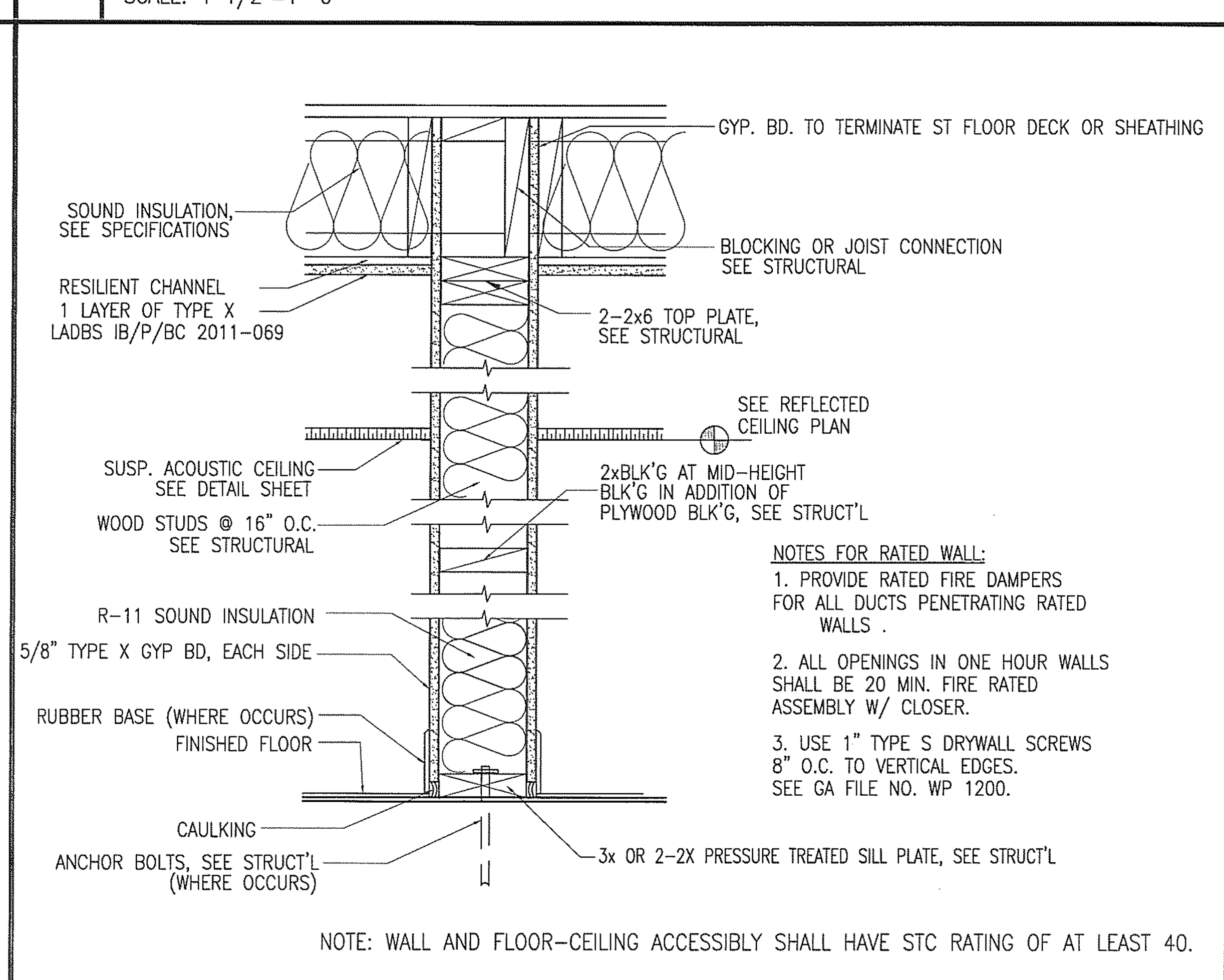
NOTE: WALL AND FLOOR–CEILING ACCESSIBLY SHALL HAVE STC RATING OF AT LEAST 40.

City of Los Angeles
Department of Building and Safety
Green Building Division
This set of plans and specifications has been reviewed and is approved for compliance with state and local ordinances related to the Green Building...
This set of plans MUST be at the job site during construction.

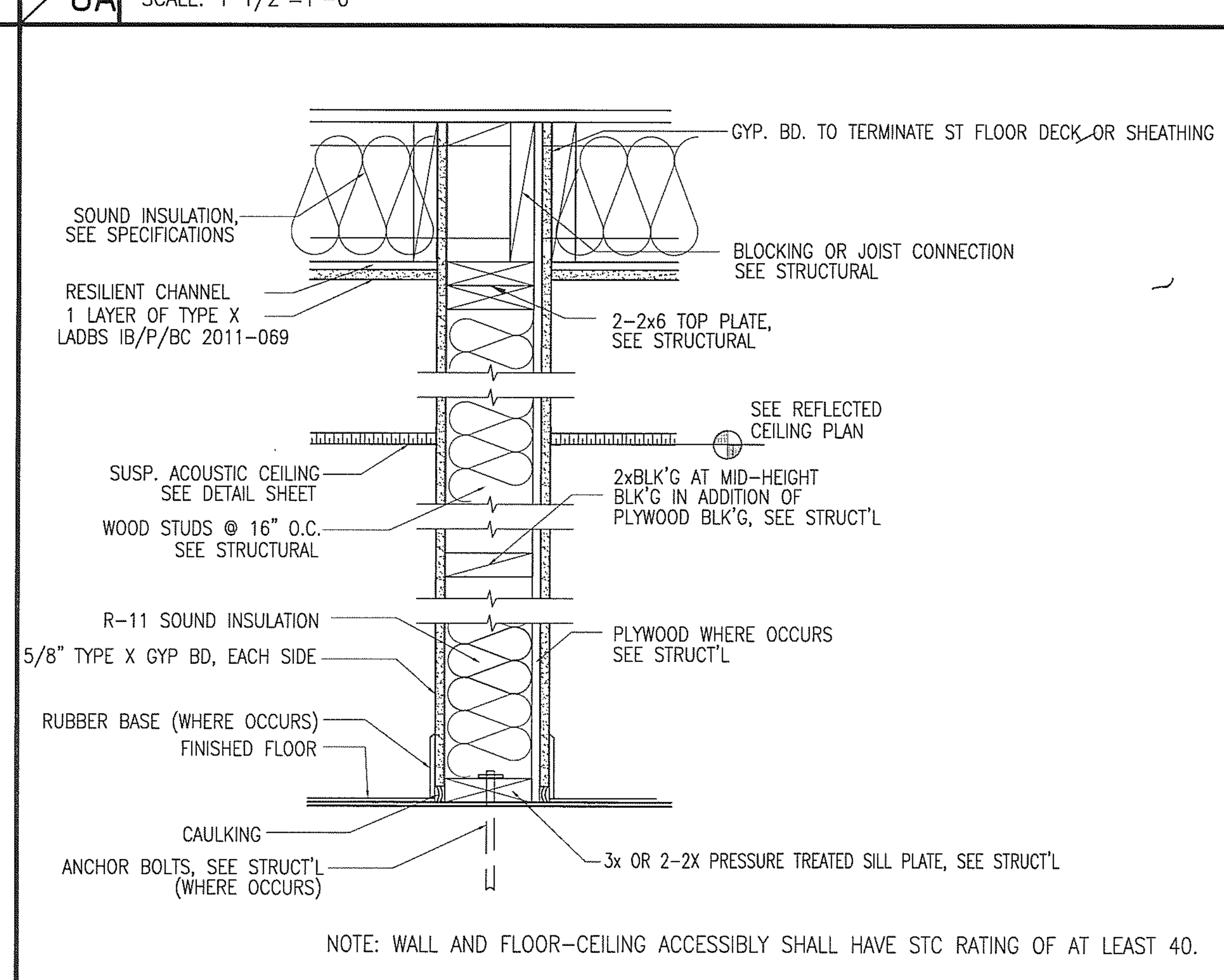
8B ONE HOUR RATED INTERIOR WALL
SCALE: 1 1/2"=1'-0"



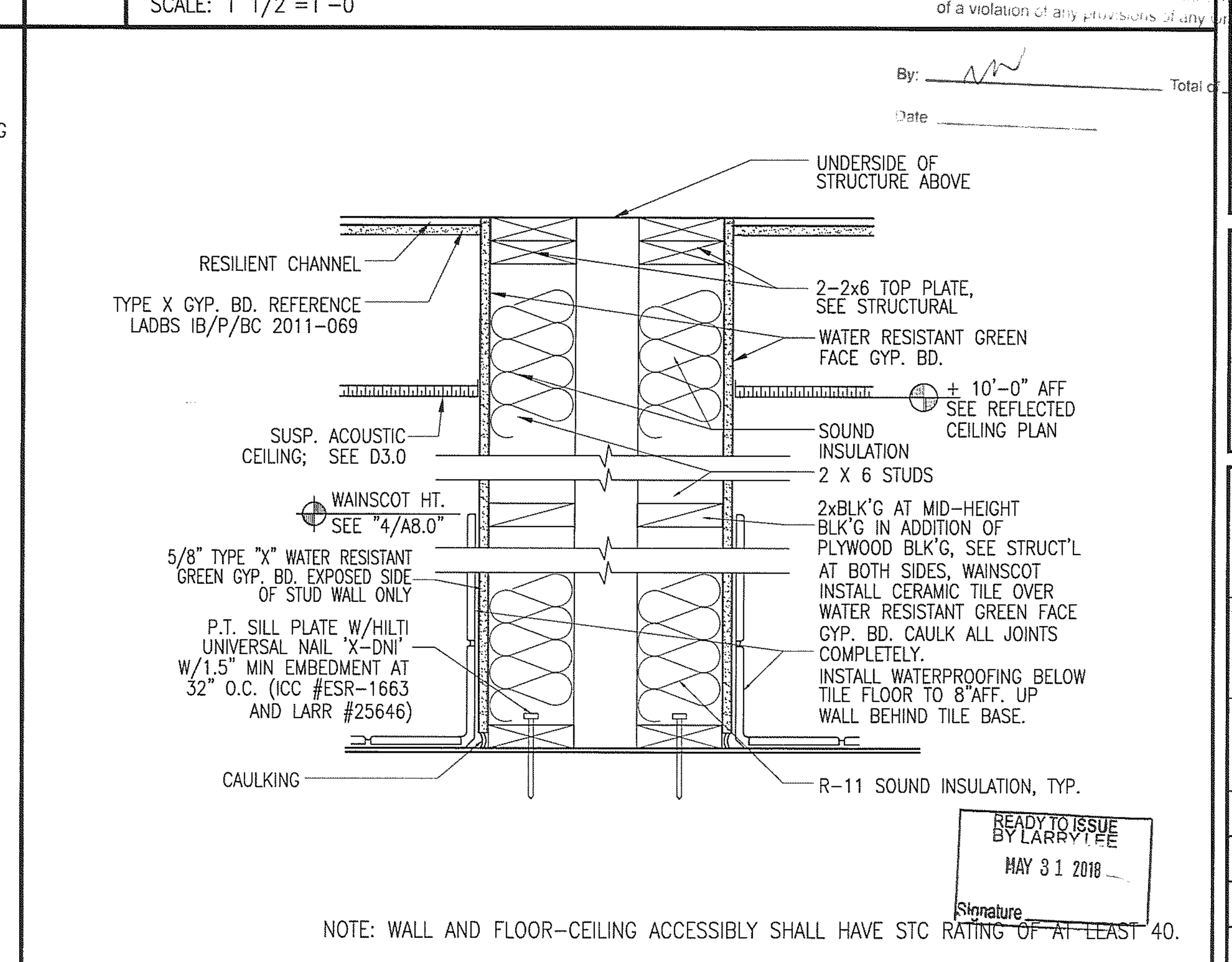
9 ONE HOUR RATED SHAFT WALL
SCALE: 1 1/2"=1'-0"



10 NON-BEARING WALL DETAIL
SCALE: 1 1/2"=1'-0"



11 BEARING WALL DETAIL-NON-RATED
SCALE: 1 1/2"=1'-0"



12 WOOD STUD DBL. PLUMBING WALL
SCALE: 1 1/2"=1'-0"

FRANCO ARCHITECTS INC.
12345 Ventura Blvd. H
Studio City, CA 91604
Architecture and Planning
Tel 818 754-2030
Fax 818 754-2032

MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV.	DESCRIPTION	DATE
1	PLAN CHECK #1	6/14/2017
	PLAN CHECK	10/31/2017
	PLAN CHECK	12/14/2017

LICENSED ARCHITECT JOHANN D. WANG C27010 STATE OF CALIFORNIA

PROJECT: MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA91335
DRAWING TITLE: DETAILS
ISSUE DATE: 12/14/2017
DRAWING SCALE: AS NOTED
D2.0

Armstrong & Aceves Company, Inc.

Change Request

To: TREVOR LAWTON
OLTMANS CONSTRUCTION
10005 MISSION MILL RD.
WHITTIER, CA 90601
Ph: 562-948-4242 Fax: 562-695-9267

Number: 10
Date: 4/17/19
Job: 1-477 Magnolia Science Center
Phone:

Description: Lead Flashing T&M Ticket 4/12/19

We are pleased to offer the following specifications and pricing to make the following changes:

Per Oltman's direction, please see attached pricing for T&M ticket dated 4/12/19 for the following:
1. Install (3) lead at waterproofing area sections.
2. Apply waterproofing liquid to seal lead and added roof step.

Work performed by us:

Description	Quantity	Unit	Unit Price	Price
Malarkey Base	1.00	Roll	$31.92	$31.92
Malarkey Ply 6	1.00	Roll	$55.25	$55.25
Malarkey 524G Title 24 Cap	1.00	Roll	$74.56	$74.56
Mastic	1.00	Pail	$42.84	$42.84
Roofing Labor	8.00	hr	$65.00	$520.00
			Subtotal:	$724.57

		Subtotal:	**$724.57**
Tax	$204.57	9.50%	$19.43
O H & P	$744.00	10.00%	$74.40
Round			$-0.40
		Total:	**$818.00**

If you have any questions, please contact me at 951-284-3456.

Submitted by: Michael Vides
ARMSTRONG & ACEVES COMPANY

Approved by: _____
Date: _____

Cc: Marisol De La Rosa (ARMSTRONG & ACEVES COMPANY)

DAILY RECORD OF EXTRA WORK

Armstrong & Aceves Company, Inc.
3299 Horseless Carriage Lane, Norco, CA 92860
Main (951) 284-3456 Fax (888) 482-2124

Work Performed For: Magnolia Scienc —
Descrirption of Work: 3 Lead install on water proofing sections & put water proofing liquid to seal lead and Roofe step that was added

Job #: 1-477
Name: Pablo Nasera
Date: 4-12-19
Report No.

LABOR (Employee Name)	Classification	Date	Total HRS	Rates	Extended Amount:
Pablo Nasera	foreman	4-3-19	2 hr	$65	$130
Juan Gabriel	Roofer	4-3-19	2 hr	$65	$130
Chris Hernandez	Roofer	4-11-19	2 hr	$65	$130
Edgar Jimenez	Roofer	4-3-19	2	$65	$130
			Total Labor	0	$ $520 —

Equipment	Number	Total HRS	Rates	Extended Amount:
		Total Equipment:		

Materials	Unit	Quantity	Rates	Extended Amount:
base	1 Roll	1	31.92	31.92
ply	1 Roll	1	55.25	55.25
Cap	1 Roll	1	74.56	74.56
mastic	1 PAIL.	1	42.84	42.84
Tax				19.43
		Total Materials:		224.00
		Sub-Totals		$ 744 -
		Overhead / Profit @ 10		$ 74 -40
		Total Cost:		$ 818 -00

Comments:

Acceptance: Ok To Proceed Per Jeff Rich.

Date:

"Building a Safe & Secure Southern California"

Request For Change Order

To: Oltmans Construction Co
10005 Mission Mill Road
Whittier, CA 90601

Project: Oltmans Magnolia Science Cnt

RFC No: 9
Date: 10/15/2018
Description: SCOPE:
Electrical Construction: This Change Order Request is for the Added SOW pursuant to RFI 78. Please see breakdown attached.

INCLUDES:
This proposal includes all materials, tax, equipment, and labor as needed to provide a complete and operable system for work as described herein.

EXCLUDES:
Overtime
Shift work
Permits & Fees
Inclusions and Exclusions of the Original Executed Contract will apply to this cost estimate
Anything not expressly included above

"Building a Safe & Secure Southern California"

Request For Change Order

To: Oltmans Construction Co
10005 Mission Mill Road
Whittier, CA 90601

Project: Oltmans Magnolia Science Cnt

The above work is subject to the same conditions as specified in the original contract unless otherwise stipulated.

Upon approval the sum of $8,804.83 will be added to the contract price.

Original Contract	$487,921.00
Other Approved Change Orders	$10,847.53
Total Contract to Date	$498,768.53
This Request	$8,804.83
Other Pending Requests	$35,174.02
Total Contract plus Pending RFCs	$542,747.38

Authorized Signature: _____ Date: _____
Safeway Building Systems, Inc

Authorized Signature: _____ Date: _____
Oltmans Construction Co

1474 Miller Drive | Colton, CA 92324
Phone (909) 824-6441
Fax (909) 824-0571
www.safewaybsi.com
Lic # B/C-10 387886
Lic # C-46, C-7
ACO# 3998

Safeway ELECTRIC

Since 1980

"Building a Safe & Secure Southern California

Change Order Request Form

Customer: Oltmans Construction

Project: Magnoila Science Academy

Job Number: E129718

Date: 10/16/18 COR 9 RFI 78

This COR is for the Added SOW Pursuant to RFI 78. The following SOW will be performed:

1.Provide and Install (5) Wall Mounted Fixtures on the South end of the building

4-6 week lead time from approval date

2.Credit for trenching and wiring associated with the two omitted light poles

***** No credit is warranted for the light poles and fixture heads as they were previously released. Safeway will turn over the (2) poles and heads to Oltmans.*****

Labor Costs

Position	Hours Worked	Hourly Rate	OT Hours	OT Rate	Total Cost
Journeyman	20	$ 85.00		$ 127.50	$ 1,700.00
Foreman	2	$ 95.00		$ 142.50	$ 190.00
Superintendent		$ 105.00		$ 157.50	$ -
				Mark Up 10%	**$ 189.00**
				Total Labor Costs	**$ 2,079.00**

Material Costs

See Material Breakout Attached		$ 5,316.01
	Subtotal	$ 5,316.01
	Sales Tax 8%	$ 425.28
	Mark Up 10%	$ 574.13
		$ 6,315.42

Equipment Costs

Description	Day	Rate	Total
Boom Lift Rental plus p/u and delivery	1		$ 373.10
		$ -	$ -
		Mark-Up 10%	$ 37.31
		Total Equipment Costs	**$ 410.41**

Subcontractors

		$ -
		$ -
		$ -
	Subcontractor Costs	$ -
	Mark-up @ 10%	$ -
	Total Subcontractor Costs	$ -

Total Daily Change Order Due **$ 8,804.83**

JOB 2591 6160: MSA COR 9 RFI 78
ESTIMATE 1 4007:
DATA SET 11 CommTSC/EST/NECA 07/14...

PRINTED 10/16/2018 8:20:40 AM
MATERIAL Primary
LABOR Primary

NOTES

Item				Material	Labor
Size	**Item Desc**	**Qty**	**UOM**	**Mat Ext**	**Lbr Ext**
Section : Section 001: BR PWR - EXTERIOR LIGHT POLE FIXTURES					
	38AST MC CONNECTOR	8.00	EACH	9.70	1.4400
	5S BOX 4 11-16	4.00	EACH	83.81	1.0200
	34ESRTCP 3/4 RAIN TIGHT COUPLING	2.00	EACH	4.10	0.1800
	FIRE CAULKING TUBE	2.00	EACH	51.48	0.0000
	EXT F FIXTURES WDM-D-48L-105-5K7-4W-UNI-PS-PC	5.00	EACH	4,890.00	3.7500
3/4"	EMT	135.00	FEET	111.78	4.0500
3/4"	EMT STEEL SS CONN	11.00	EACH	4.36	0.9900
3/4"	EMT STEEL SS COUP	12.00	EACH	3.89	0.5400
3/4"	GRC COUPLING	2.00	EACH	3.07	0.0000
3/4"	LIQUIDTITE CONDUIT	5.00	FEET	4.98	0.1500
3/4"	LIQUIDTITE STR CONN	5.00	EACH	18.72	0.7500
4 SQ BOX	1-1/2D 1/2 KO	4.00	EACH	5.90	0.7200
4 SQ	1-1/4D 1G PLAS RING	4.00	EACH	5.66	0.3000
	1G WP BELL BOX	1.00	EACH	5.40	0.7500
12	THHN SOL CU	135.00	FEET	17.82	0.8100
10	THHN SOL CU	375.00	FEET	76.50	2.8125
#12-3/C	MC CABLE W/GRN GRD	80.00	FEET	71.04	3.9600
Subtotals for Section : Section 001: BR PWR - EXTERIOR LIGHT POLE FIXTURES				5,368.21	22.2225
Section : Section 002: CREDIT - CREDIT					
	6W-24D TRENCHER DITCHING	-25.00	FEET	-25.00	-0.7500
1"	PVC SCH 40	-30.00	FEET	-10.20	-0.9000
1"	PVC SCH 40 90 ELBOW	-4.00	EACH	-2.60	-0.4000
12	THHN SOL CU	-32.00	FEET	-3.52	-0.1280
10	THHN SOL CU	-64.00	FEET	-10.88	-0.3200
Subtotals for Section : Section 002: CREDIT - CREDIT				-52.20	-2.4980
Grand Totals				5,316.01	19.7245

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

REQUEST FOR INFORMATION
RFI-078

SUBJECT:	Exterior Light Pole Fixtures Clarification	**DATE:**	09/24/2018
PROJECT:	Magnolia Science Academy	**PROJECT NO.:**	18049
		REQUIRED:	09/27/2018
TO:	Etmny Cornejo	**COST IMPACT:**	POTENTIALLY
	Franco Architects Inc.	**DAYS IMPACT:**	POTENTIALLY
FROM:	Olivia Sanchez		
	Oltmans Construction Co.		

Co-Author: **Contact:** **Co-Author RFI Number:**

Request:

Refer to: A0.5A, E2.1

Per discussion at OAC meeting on 9/19/2018, please confirm the two (2) light poles on the South end of the building are to be omitted and replaced with wall-mounted lights. Additionally, please provide specification and location for desired wall-mounted exterior fixtures.

Suggestion:

Answer: ☐ **Accept Suggestion**

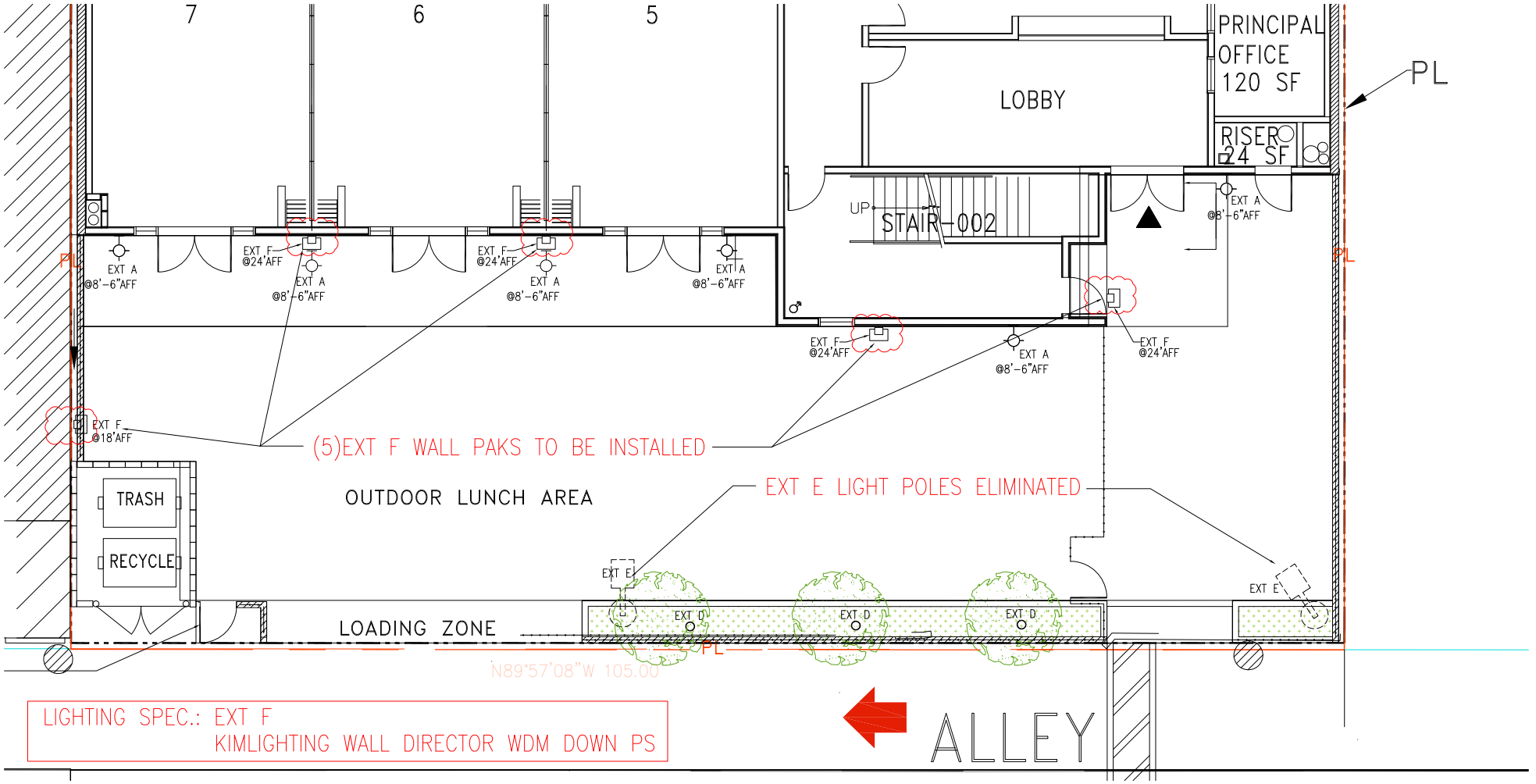
It is confirmed that the two light poles on the south end of the building are to be omitted and replaced with wall-mounted lights. See SK-023, SK-024 and revised Electrical Sketches ESK 001 thru 004.

Answered By: Stephanie Liu
Franco Architects

Date: 10/11/2018

Distribution:

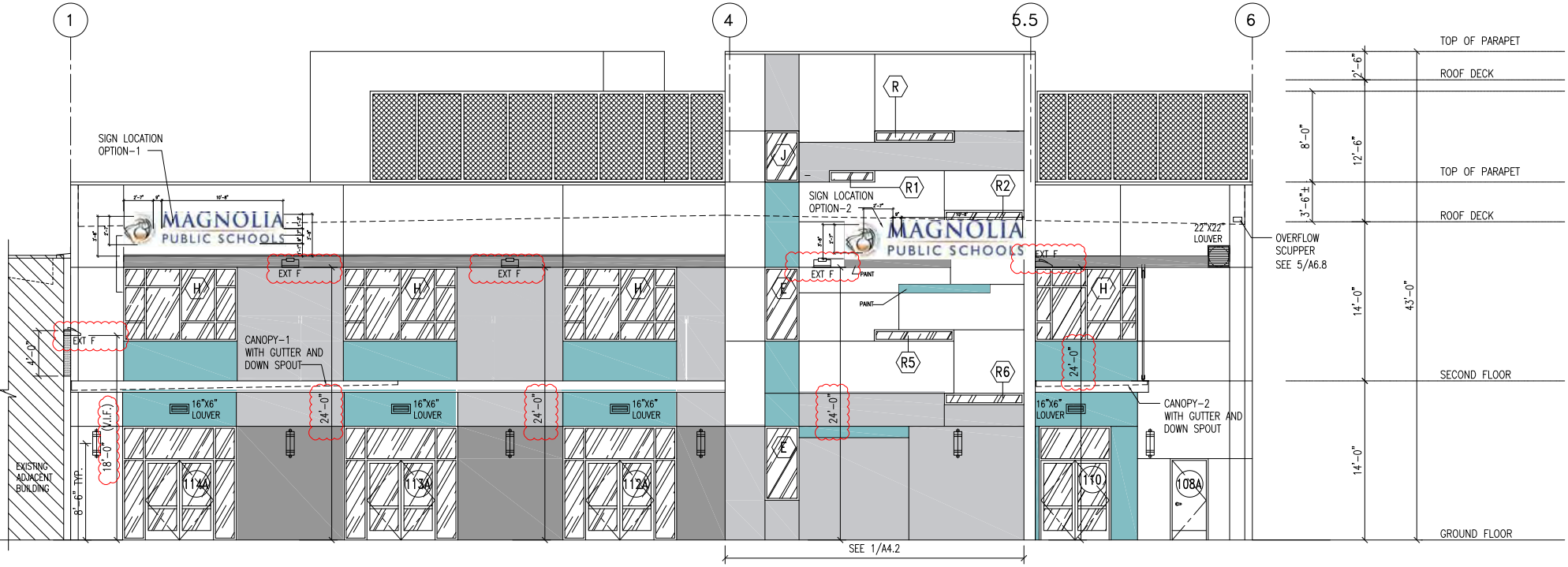
Contact	Company
Devin Ulibarri	Oltmans Construction Co.
Jeff Rich	Oltmans Construction Co.
Johann Wang	Franco Architects Inc.
Karen Montalvo	Franco Architects Inc.
Stephanie Liu	Franco Architects Inc.
Sarineh Minasian	Franco Architects Inc.
Tim Buresh	Magnolia Educational and Research Foundation



Architect:
FRANCO ARCHITECTS
12345 Ventura Blvd. Studio City, CA 91604
(818) 754-2030 (818) 754-2032 (FAX)

OUTDOOR LUNCH AREA – EXTERIOR LIGHTING REPLACEMENT

Project:	MAGNOLIA SCIENCE ACADEMY 18220 SHERMAN WAY, RESEDA, CA 91335		
Project No.:		Date: 10/8/2018	Sheet No. A0.5A
Drawing Title:	SITE PLAN		Sketch No. SK-023



Architect:
FRANCO ARCHITECTS
12345 Ventura Blvd. Studio City, CA 91604
(818) 754-2030 (818) 754-2032 (FAX)

Project:	MAGNOLIA SCIENCE ACADEMY 18220 SHERMAN WAY, RESEDA, CA 91335		
Project No.:		Date: 10/1/2018	Sheet No. A4.0
Drawing Title:	SOUTH ELEVATION - EXT F		Sketch No. SK-024

4-6 WEEK LEAD TIME

KIM LIGHTING

WDM
Wall Director® Medium kl_wdm_spec.pdf

JOB _____ TYPE _____

NOTES _____ APPROVALS _____

FEATURES

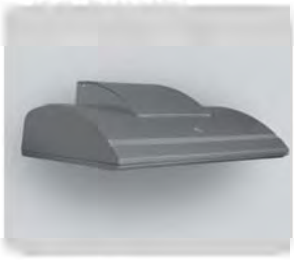
- -5° to +10° tilt adjustment
- High performance optics deliver up to 15,000 lumens
- up or down mountable withcut modification
- Diffused lens option
- Programmable occupancy sensor (dimming)
- NX and SiteSync wireless controls
- 130+ lumens per watt

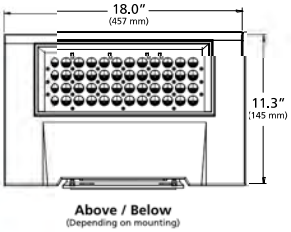
Certifications

c UL us LISTED

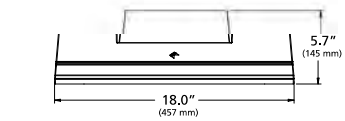
Downlight only, 3000K and warmer CCTs

SPECIFICATIONS

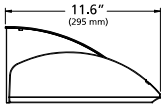




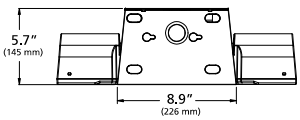
Above / Below
(Depending on mounting)



Front



Side



Weight: 35 lbs

ORDERING CODE

WDM	D	48L	105K	5K7	4W	UNI	PS
Fixture	**Mounting**	**Source**	**Wattage**	**Light Engine**	**Distribution**	**Voltage**	**Fixture Finish**
WDM Wall Director Medium	D Down U[1] Up	48L 48 LEDs	55 55 Watts 65 65 Watts 85 85 Watts 105 105 Watts 130 130 Watts	3K7 3000K/70CRI 3K8 3000K/80CRI 4K7 4000K/70CRI 4K8 4000K/80CRI 5K7 5000K/70CRI	1 Type I 2 Type II 3 Type III 4W Type IV Wide 4F Type IV Forward WG[2] Wall Graze SP Spot/Column FTD[2] Forward Throw Diffuse WTD[2] Wide Throw Diffuse	UNV 120-277V 347 347V 480 480V	BL Black DB Dark Bronze GT Graphite LG Light Gray PS Platinum Silver TT Titanium WH White CC Custom Color, consult representative

PC		
Control Options	**Options**	**Accessories**
PC Button Photocell SCP-8F Programmable Occ. Sensor (<9' height) SCP-20F Programmable Occ. Sensor (<9' - 20' height) SWP[3] SiteSync Wireless Pre-Commission SWPM[3] SiteSync Wireless w/ Occupancy Sensor Pre-Commission NXSPW14F[4] NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXSP14F[4] NX PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' NXWE[4] NX Wireless Enabled	EM[3] Internal Emergency Battery Backup SF Single Fuse & Fuse holder DF Double Fuse & Fuse holder 2DR Dual Drivers 2PF Dual Power Feeds	SCPREMOTE SCP configuration tool SWUSB SiteSync Software on USB SWTAB SiteSync Windows® Tablet SWBRG SiteSync Software Bridge Node

NX DISTRIBUTED INTELLIGENCE™

Kim Lighting reserves the right to change specifications without notice.

[1] Not available with EM option or with SCP & SWPM sensor options.
[2] WG, FTD, and WTD come with a diffused lens.
[3] Universal voltage only (120-277), not available with PC option.
[4] 120-347V only

P. V. & C.
PLUMBING & PIPING INC.
1620 S. Grove Ave., Ste. B, Ontario, CA 91761
(909) 595-9434

CHANGE ORDER PROPOSAL

DATE:	**1/15/2019**	G.C. PROJECT MANAGER / SENT TO:	Trevor Lawton
CONTRACTOR:	**Oltman's Construction**	PROJECT:	**Magnolia Science Academy**
ADDRESS:	**10005 Nission Mill Road**	JOB NO: **2027**	COR # 6
CITY, STATE, ZIP:	**Whittier, Ca 90601**	REF NO: **Delta 3**	RFI:

DESCRIPTION OF WORK: Delta 3 Drawings issued 12/26/2018

Labor, materials, and equipment necessary to perform the installation of (1) 3" outlet deck drain, added to serve the vestibule entry at Boys Restroom #302 (per the Delta 3 Drawings issued 12/26/2018). Includes installation of (1) new Wade model 3111-3NH-1-52-53-VP deck drain with heel proof nickel bronze veneer strainer, all necessary sch 40 PVC DWV drain piping with POC to the adjacent storm drain system above MDF RM #214 / Staff Breakroom #211, all piping supports / hangers as necessary, seismic bracing at +/-30' intervals as necessary, installation of pipe labels at +/-30' intervals as necessary, and pre-functional testing upon completion.

Note: Sch 40 PVC DWV pipe and fittings have been selected in conjunction with the value engineering considerations made in previously issued PV&C COR #03 "Revised", dated 12/4/2018.

TYPE OF MATERIAL	QTY	UNIT	UNIT COST	AMOUNT
See attached material back-up	1	FLAT	$1,682.65	$1,682.65
				$0.00
				$0.00
				$0.00
				$0.00
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				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00
TOTAL				$1,682.65
SALES TAX				included
TOTAL MATERIAL COSTS				$1,682.65

TRADE	HOUR	RATE	AMOUNT
STRAIGHT TIME			
PLM GF		108.63	$0.00
PLM FM	2.0	102.19	$204.38
PLM JM	16.0	92.51	$1,480.16
WELDER		117.60	$0.00
PREMIUM TIME			
PLM GF		147.57	$0.00
PLM FM		138.05	$0.00
PLM JM		123.77	$0.00
WELDER		173.25	$0.00
DOUBLE TIME			
PLM GF		185.57	$0.00
PLM FM		173.01	$0.00
PLM JM		154.17	$0.00
Welder		235.20	$0.00
WAGE BENEFITS			included
TRAVEL	2	$92.51	$185.02
TOTAL LABOR COSTS			$1,869.56

MISC. TOOLS & EQUIPMENT

ITEM	QTY	UNIT	UNIT COST	AMOUNT
Rolling scafolding (rental)	0.5	week	$375.00	$187.50
				$0.00
Multi-quip MQ4500 Generator	2	DAY	$55.00	$110.00
Fuel Surcharge	1	Gallon	$8.00	$8.00
Flat-bed delivery truck from shop	2	RND TRIP	$250.00	$500.00
(delivery / pick-up of scaffolding)				$0.00
				$0.00
charge not yet met)				
TOTAL MISC. COSTS				$805.50

SUMMARY		
TOTAL MATERIAL COST		$1,682.65
TOTAL LABOR COST		$1,869.56
TOTAL MISC. COST		$805.50
TOTAL COST		$4,357.71
OVERHEAD & PROFIT	15%	$653.66
TOTAL		$5,011.37
BOND		
GRAND TOTAL		**$5,011.37**

2 working days are to be added to our contracted schedule timeline. This schedule change may effect other timelines.

EXCLUSIONS:

1) Assessments or fees.
2) Permit.
3) Overtime.
4) Double-time.
5) Roof-patch.
6) Water-proofing.
7) Lead-flashing(s) or sheets.
8) Core-drilling.
9) Fossil filter(s).
10) X-ray / deep scan of concrete deck.
11) Calculation(s) / drawing(s) / engineering.
12) Location(s) other than specified.
13) Qty(s) other than specified.
14) Material(s) other than specified.

See attached back-up sheets for detailed quantities, etc. The above pricing is only for items contained on this sheet. If any major items were missed during that takeoff, they are not contained in the pricing herein, and are subject to a supplemental pricing for that work.
This pricing is good for 30 days.

Submitted by;

Extra Work Authorization

1/15/2019

Job Name: #2027 Magnolia Science Academy

Quantity	Description	Cost	Total
1	1- 3” no hub outlet Wade Model 3103-3NH-1-5-52-53 deck drain	662.43	662.43
40	40’- 3” sch 40 PVC DWV pipe	2.52	100.68
1	1- 3” CP33 Mission band (3” PL x 3” CI)	12.56	12.56
1	1- 3” IPS plated riser clamp	5.22	5.22
2	2- 3” sch 40 PVC DWV long sweeps	4.56	9.12
1	1- 3” sch 40 PVC DWV ¼ bend	3.55	3.55
3	3- 3” sch 40 PVC DWV couplings w/ stop	2.55	7.64
3	3- 3” sch 40 PVC DWV hxs 1/8 bends	4.46	13.37
2	2- 3” sch 40 PVC DWV hxh 1/8 bends	4.70	9.41
1	1- quart Grey PVC glue	25.53	25.53
1	1- quart purple PVC primer	22.70	22.70
2	2- glue daubers	5.36	10.72
1	1- pack terry cloth towels / rags	15.06	15.06
1	1- 4” x 4” x 3” sch 40 PVC DWV combi	11.89	11.89
10	10- 3” IPS loop hangers	1.78	17.76
20	20’- 3/8” zinc coated all thread rod	0.54	10.72
1	1- box ¼” x 2” long x 3/8” rod bottom outlet super screws	19.84	19.84
1	50- 3/8” nuts	9.79	9.79
1	50- 3/8” washers	4.81	4.81
1	1- box 3/8” x 1 ½” long lag bolts	25.19	25.19
10	10- B-Line Cooper B3060L side beam attach bracket’s	13.16	131.63
2	2- B-Line Cooper B650 series retro-fit hanger seismic brace	93.76	187.51
2	2- FNW7847Z4 4-hole open angle brackets	8.89	17.78
8	8- FNW7819Z0037 3/8”-16 no-spring channel nuts	1.11	8.90
10	10’- 13/16” uni strut	2.29	22.90
1	1- box 3/8” x 1” long machine bolts	10.80	10.80
2	2- pipe labels with 2” high letters (white on green) “Storm Drain”	5.40	10.80
1	1- roll Bradly directional arrow tape (white on green) small arrows	75.87	75.87
1	1- 18TPI portable band saw blade	12.80	12.80
1	1- FNW7811Z1800 18” strut arm	20.50	20.50
2	2- 3” IPS strut clamps	3.09	6.18
2	2- 4” SD2000 Husky bands (no hub couplings)	10.90	21.81
1	1- 3” sch 40 PVC DWV wye	6.47	6.47
1	1- 3” sch 40 PVC glue cap	0.66	0.66
1	1- 3” dollar plug / test plug	4.09	4.09
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Total w/tax	1,682.65	

Elizabeth Lara

From: Dustin Miller <dmiller@safewaybsi.com>
Sent: Monday, January 21, 2019 8:08 AM
To: Elizabeth Lara
Cc: Project Support; Carlos Bedoy; Trevor Lawton
Subject: RE: MSA #18049 - Revised Drawings Bulletin 4 and 5 RFP

Good Morning Elizabeth,

There is no cost impact for us on Bulletin #4 & #5, per the revised drawings listed on the email " MSA #18049 – Revised Drawings Bulletin 4 and 5 RFP" that we received on 1/15/19.

The adder for furnishing five (5) Wall-mounted Fixtures and credit for the two (2) omitted Light Poles were captured within Safeway CO#9 (RFI 78).

Best regards,

Dustin Miller
Project Engineer

Safeway ELECTRIC

"Building a Safe & Secure Southern California"
Cell: (951) 321-0713
Office: (909) 824-6075
Fax: (909) 824-0571
www.safewaybsi.com

From: Elizabeth Lara [mailto:ElizabethL@oltmans.com]
Sent: Tuesday, January 15, 2019 11:53 AM
To: chris@ceramictileart.us; Raymond Elias; steve@gjgentry.com; cindy@starhardwareinc.com; Steve Brandriff; Carlos Bedoy; frank.fang@schindler.com; will@iealarm.com; eric@iealarm.com; tclark@adfiresprinklers.com; newimageinterior@mail.com; newimageflooring1@contractor.net; Kristopher Johnston; mark@continentalglazing.com; skorica@cbhvac.com; kyle@calcominsulation.com; rona@advancedlandscape2000.com; RyanH@perliteplastering.com;

robertgallal@gmail.com; rghansen@shcabinets.com; eesquivel@hufcor.com; jaguilar@lawrencedoors.com; chris@jfpco.com; lauren@beesonpervious.com; tim@pvcplumbing.com; tom@pvcplumbing.com; Kris@pvcplumbing.com; mlamarche@johaseerebar.com; T.Galan@AARoofingCorp.com; J.Arzaga@AARoofingCorp.com; Reginald.Huner@Intertek.com; Kristopher Johnston; T.Galan@AARoofingCorp.com; stephen@sjgrigolla.com; steve@gjgentry.com; cathy.garcia@sgcal.com; mike.butler@sgcal.com; david.howell@smokeguard.com; Jrmartinez@kdrsteel.com; rfrei@peica.com; gravelo@powerplus.com; estimating@thompart.com; james@systemswp.com
Cc: Trevor Lawton; Elizabeth Lara
Subject: MSA #18049 - Revised Drawings Bulletin 4 and 5 RFP

Good Morning Everyone,

Please see the attached bulletin 4 and 5 affected drawings. A brief description of changes can be found on the lower left side of the drawing, next to title block.

- Bulletin 4 (delta 4) are summary of sketches that have been issued (typically RFI response)
- Bulletin 5 (delta 5) Coordination Bulletin
- Impacted sheets for the bulletins:
    1. A0.5A
    2. A1.1
    3. A3.1
    4. A4.0
    5. A4.1
    6. A5.1
    7. A6.0
    8. A6.2
    9. A6.8
    10. A6.9
    11. S9.0
    12. S9.1

Submit your WRITTEN, **ITEMIZED** AND DETAILED quotation to our office by Tuesday January 22, 2019 at 4pm. If no cost impacts are submitted we will assume there is no cost impact and future change order requests will not be accepted pertaining to changes in bulletin 4 and 5.

If this request for proposal does not have any cost and /or schedule impact on your portion of the work, indicate by signing and returning this to my attention.

If you have questions, contract the Project Manager, (Trevor Lawton), at extension (3459) or myself at extension 3432.

REFERENCE THE BULLETIN#/DRAWING # WHEN RESPONDING TO THIS NOTICE AND RETURN TO MY ATTENTION.

NO COST OR SCHEDULE IMPACT:

_____ _____
Name Date

Thank you,
Elizabeth F. Lara

Sr. Project Engineer

Oltmans Construction Co.
T 562.948.4411, Ext. 3432

From: Johann Wang
Sent: Friday, January 11, 2019 10:31 AM
To: Trevor Lawton <TrevorL@oltmans.com>; Elizabeth Lara <ElizabethL@oltmans.com>; Jeff Rich <JeffR@oltmans.com>
Cc: Karen Montalvo; Stephanie Liu; Etmny Cornejo
Subject: MSA Bulitin-4 and 5

Hi Trevor,
Attached are the drawings for Bulitin-4 and Bulitin-5. **Bulitin-4 are summary of sketches that have been issued. Bulitin-5 is new.**
Thanks
Johann Wang Architect
Franco Architects Inc.

Global Specialties Direct Inc.

REQUEST FOR CHANGE ORDER

CONTRACTOR: Oltmans Construction

DATE: 10/29/18

ATTENTION: Olivia Sanchez

JOB: Magnolia Science Academy
Reseda, CA

GLOBAL JOB#: 18156

CHANGE ORDER: 1

REASON FOR CHANGE:

Per Returned Submittals, Add to Provide C1816G17FX2 FEC in lieu of C1816V17FX2.

TOTAL COST INCLUDING TAX	**$321.00**
LABOR	**INCLUDED**
TOTAL CHANGE ORDER REQUEST	**$321.00**

GLOBAL SPECIALTIES DIRECT INC

ACCEPTED BY:_____

TITLE:_____

BY: JOVANNA LABORIN
PROJECT MANAGER

PLEASE NOTE: CHANGE ORDER WILL NOT BE PROCESSED UNTIL SIGNATURE IS RECEIVED

****CHANGE ORDER(S) WILL NOT BE PROCESSED UNTIL GLOBAL SPECIALTIES DIRECT INC HAS RECEIVED APPROVAL FROM YOUR FIRM.**

10118 SANTA FE SPRINGS RD, SANTA FE SPRINGS, CA 90670
PHONE (562) 777-1170 ▪ FAX (562) 777-1169

SUBMITTED:

SUBMITTAL: AMBASSADOR™ STEEL FX2™ FIRE-RATED EXTINGUISHER CABINETS

PAGE 1 OF 2

The Ambassador Series is a Durable, Attractive Steel Cabinet with Powder-coat Finish that Stands up to Conditions in Commercial Buildings.

Door & Trim Construction: Cold rolled steel with white powder-coated finish standard. Flush cabinet doors with a 5/8" door stop are attached by a continuous hinge and equipped with zinc-plated handle and roller catch. All models have 1-3/4" wide trim on frame and 1-1/4 trim on doors with glazing.

Trim Style & Depth: *Trimless Recessed* -See separate submittal, *Recessed* 3/8" flat trim, *Semi Recessed* - 1-1/4", 1-1/2" Square Edge or 2-1/2", 3", 4", 4-1/2" Rolled Edge (4" has Flush pull).

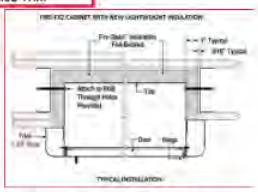
Tub: The tub is constructed of cold rolled steel with white powder-coat finish standard. Tub forms a flange to cover cut edges of wallboard material. Fire-resistant material is attached to the exterior of the tub.. *Please note that dimensions for wall opening have changed for the new FX2 design. See Chart on pg 2.*

Fire-Rating: Fire-FX2™ cabinets are fabricated in accordance with the UL label for one and two hour combustible and non-combustible wall system building codes. The fire testing has met the requirement of ANSI/UL 1479 (ASTM –E814) and ULC/CAN S115 for membrane and penetration firestops. Installation instructions must be strictly adhered to in order to obtain the fire rating.

c UL us LISTED

1017V10FX2
3" Rolled Trim

8116F10FX2
1-1/2" Square Trim
Semi-Recessed



STEP 1: SELECT MODEL NUMBER AND QUANTITY ON CHART (refer to chart on pg 2)
A. Determine Trim Style according to wall depth. **B.** Determine Tub I.D. according to size most suited for extinguisher and wall opening.

STEP 2: SELECT DOOR STYLE WITH HANDLE

Check one box below - See Examples on Page 2

- ☐ **F** Full Glazing
- ☐ **G** Full Glazing with SAF-T-LOK™
- ☐ **D** Horizontal Duo Panel
- ☐ **E** Horizontal Dual Panel with SAF-T-LOK™
- ☐ **S21** Solid Door
- ☐ **L22** Solid with SAF-T-LOK™
- ☐ **L24** Sold with Cylinder Lock - No Handle
- ☐ **V** Vertical Duo
- ☐ **W** Vertical Duo with SAF-T-LOK™
- ☐ **B** Solid with 2" x 4" View Window & SAF-T-LOK™

BIM Objects for REVIT® Platform

STEP 3: SELECT DOOR GLAZING (Check one box below)

- ☐ **10** Clear Acrylic
- ☐ **13** Clear Wire Glass with Safety Film
- ☐ **15** Bronze Acrylic
- ☐ **16** Gray Acrylic
- ☐ **17** Clear Tempered Glass
- ☐ **18** Laminated Safety Glass

STEP 4: OPTIONAL FEATURES AT ADDED COST (SELECT ANY)

- ☐ Optional Tub Color: ___ Black ___ Red
- ☐ Futura "Fire" Pull ___ Mill Alum ___ Red ___ White
- ☐ Flush Pull Handle
- ☐ Polished Chrome Lever Handle (**P6**)
- ☐ Optional Colors: ___ Red ___ Black ___ Flat Black
  ___ Sand ___ AMS Beige ___ SC Flat Beige
  ___ Gray Primer ___ Bronze ___ Silver
- ☐ Black Vertical FE Letters **LDCVBFE**
- ☐ Red Vertical FE Letters **LDCVRFE**
- ☐ White Vertical FE Letters **LDCVWFE**
- ☐ Black Horizontal FE Letters **LDCHBFE**
- ☐ Red Horizontal FE Letters **LDCHRFE**
- ☐ White Horizontal FE Letters **LDCHWFE**
- ☐ Black Vertical Decal **LDVBFE**
- ☐ Red Vertical Decal **LDVRFE**
- ☐ White Vertical Decal **LDVWFE**
- ☐ Black Horizontal Decal **LDHBFE**
- ☐ Red Horizontal Decal **LDHRFE**
- ☐ White Horizontal Decal **LDHWFE**
- ☐ **(MC)** Magnetic Catch—Replaces Roller Catch
- ☐ Optional Lock for G, E, W, L22, B: _____
- ☐ **(CA)** Commander Alarm
- ☐ **(BA)** Brigadier Alarm
- ☐ Etched/Engraved Letters in Glass/ Metal- Attach Sub.

For More Information on Options See Other Submittals: Decals/Die Cuts & Wall Signs, More Alarm Information

JL INDUSTRIES

ACTIVAR INC. CONSTRUCTION PRODUCTS GROUP

AMBASSADOR™ IS A TRADEMARK OF ACPG
DOWNLOAD CURRENT SUBMITTAL BEFORE ORDERING

Distributor: Global SDI	Quantity: 16
Contractor: Oltmans	Approved By:
Model #: C1816V17FX2	Architect:
Project: Magnolia Science Academy	Date 10/04/18

REVIEWED:

SUBMITTAL: AMBASSADOR™ STEEL FX2™ FIRE-RATED EXTINGUISHER CABINETS

PAGE 1 OF 2

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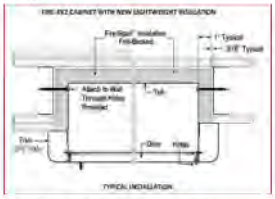
c UL us LISTED

A/E Please advise

8116F10FX2
1-1/2" Square Trim
Semi-Recessed

1017V10FX2
3" Rolled Trim



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- ☐ **V** Vertical Duo
- ☐ **W** Vertical Duo with SAF-T-LOK™
- ☐ **B** Solid with 2" x 4" View Window & SAF-T-LOK™

BIM Objects for REVIT® Platform

STEP 3: SELECT DOOR GLAZING (Check one box below)

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- ☐ **16** Gray Acrylic
- ☒ **17** Clear Tempered Glass
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- ☐ Optional Tub Color: ___ Black ___ Red
- ☐ Futura "Fire" Pull ___ Mill Alum ___ Red ___ White
- ☐ Flush Pull Handle
- ☐ Polished Chrome Lever Handle (**P6**)
- ☐ Optional Colors: ___ Red ___ Black ___ Flat Black
  ___ Sand ___ AMS Beige ___ SC Flat Beige
  ___ Gray Primer ___ Bronze ___ Silver
- ☐ Black Vertical FE Letters **LDCVBFE**
- ☒ Red Vertical FE Letters **LDCVRFE**
- ☐ White Vertical FE Letters **LDCVWFE**
- ☐ Black Horizontal FE Letters **LDCHBFE**
- ☐ Red Horizontal FE Letters **LDCHRFE**
- ☐ White Horizontal FE Letters **LDCHWFE**
- ☐ Black Vertical Decal **LDVBFE**
- ☐ Red Vertical Decal **LDVRFE**
- ☐ White Vertical Decal **LDVWFE**
- ☐ Black Horizontal Decal **LDHBFE**
- ☐ Red Horizontal Decal **LDHRFE**
- ☐ White Horizontal Decal **LDHWFE**
- ☐ **(MC)** Magnetic Catch—Replaces Roller Catch
- ☐ Optional Lock for G, E, W, L22, B: _____
- ☐ **(CA)** Commander Alarm
- ☐ **(BA)** Brigadier Alarm
- ☐ Etched/Engraved Letters in Glass/ Metal- Attach Sub.

For More Information on Options See Other Submittals: Decals/Die Cuts & Wall Signs, More Alarm Information

JL INDUSTRIES

ACTIVAR INC. CONSTRUCTION PRODUCTS GROUP

AMBASSADOR™ IS A TRADEMARK OF ACPG
DOWNLOAD CURRENT SUBMITTAL BEFORE ORDERING

Distributor: Global SDI	Quantity: 16
Contractor: Oltmans	Approved By:
Model #: C1816V17FX2	Architect:
Project: Magnolia Science Academy	Date 10/04/18

HEADQUARTERS & JL INDUSTRIES: 9702 NEWTON AV S, BLOOMINGTON, MN 55431 PH: 800-554-6077 FAX: 952-835-2218 EMAIL: SALES@ACTIVARCPG.COM WWW.ACTIVARCPG.COM
MANUFACTURING: BLOOMINGTON MN & COMMERCE, CA • WAREHOUSES: FT MYERS FL, ATLANTA GA, DALLAS TX, SEATTLE WA, LANCASTER PA, FARGO ND, OMAHA NE 6/13/2017

STAR HARDWARE, INC.

201 N. PONDEROSA AVE.

ONTARIO, CA 91761

(909) 481-7331 * (909) 481-7241 Fax

To:	**Oltmans**	Date:	**January 29, 2019**
	10005 Mission Mill Rd	Project:	**Magnolia Science Academy**
	Whittier, CA 90601	STAR Job No.:	**5556**
Phone:	**562-948-4242**	COR No.:	**02**
Fax:	**562-699-3128**	Subject:	**RFI #147**
ATTN:	**Trevor Lawton**		

DESCRIPTION:

Credit for overhead stops at openings # 124 and 221 per RFI # 147

LABOR:	Hours		$/Hour	UM		Total
Installation	0	X	$ 60.00		=	$ -
					LABOR TOTAL	**$ -**

MATERIAL: Deleted	Units		$/Unit	UM		Total
Openings 124 & 221						
Concealed Overhead Stop, 4010, 626, ABH	2	X	$ (52.17)		=	$ (104.34)

MATERIAL: Added	Units		$/Unit	UM		Total
					MATERIAL TOTAL	**$ (104.34)**

Sub Total $ (104.34)

TOTAL -$104.34

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

POTENTIAL CHANGE ITEM
PCI034

TITLE: Chem Lab Emergency Natural Gas Shut Off (RFI 191) **DATE:** 05/14/2019

PROJECT: Magnolia Science Academy **PROJECT NO.:** 18049

TO:

Magnolia Educational and Research Foundation
250 E. 1st St., 1500
Los Angeles, CA

We respectfully request your approval of the following change to the original scope of work:

DESCRIPTION:

This Potential Change Item (PCI) tracks costs associated with the added labor, materials, and equipment as required per changes issued on RFI #191. The gas system as shown on the plumbing drawing P-8 did not include an emergency gas shut off valve in the chemistry lab (room #201) to shut off turrets in case of an emergency.

Added scope includes furnish and install Isimet Panel to be used as emergency gas shut off, to be located adjacent to the strike side of the door within the framed rated wall. Includes 120V single phase solenoid valve assembly, schedule 40 1" gas piping to loop up and down from the first floor attic space to the new proposed Isimet panel location. Includes all necessary piping hangers, supports, fire caulking at floor penetrations, pipe labels, seismic bracing as necessary ad pre-fuctional testing.
_Includes power for the 24 vac for the gas shut off system, includes installation of a push button emergency shut off switch(provided by PV&C) on the desk as means of disconnect.

This PCI excludes any items not identified above including additional move-ins, engineering, testing and permits. It excludes any schedule associated impacts, general conditions, future changes caused by City review or inspections.

Vendor	Description	Amount
P.V. & C. PLUMBING	Plumbing: COR 7 Gas Emergency Shut Off	9,697.00
Safeway Bldg. Systems Inc. dba Safeway Electric	Electrical: COR #19	774.00
	SUBTOTAL:	**10,471.00**
	Bond	86.00
	Gross Tax	14.00
	GL	102.00
	SDI	131.00
	Fee	536.00
	SUBTOTAL:	**869.00**
	TOTAL COST FOR THIS CHANGE ORDER REQUEST:	**11,340.00**

APPROVAL:
Oltmans Construction Co.

BY: Trevor Lawton
DATE:

APPROVAL:
Magnolia Educational and Research

BY:
DATE:

P. V. & C.
PLUMBING & PIPING INC.
1620 S. Grove Ave., Ste. B, Ontario, CA 91761
(909) 595-9434

CHANGE ORDER PROPOSAL

DATE:	**4/22/2019**	G.C. PROJECT MANAGER / SENT TO:	Trevor Lawton
CONTRACTOR:	**Oltman's Construction**	PROJECT:	**Magnolia Science Academy**
ADDRESS:	**10005 Nission Mill Road**	JOB NO: **2027**	COR # 7
CITY, STATE, ZIP:	**Whittier, Ca 90601**	REF NO:	RFI: **191**

DESCRIPTION OF WORK:

Reference the response given to RFI No. 191. The cost impact herein is inclusive of providing and installing (1) new Isimet panel to be used as an emergency natural gas shut off, serving Chem Lab Rm #201 (second floor level). The proposed location of the Isimet panel will be adjacent to the strike side of the door, within the existing 6" wood framed rated wall. Includes installation of (1) Isimet LSP-1211-G3-U-ATV-FIRE RATED 18" x 18" x 6" flush controller cabinet, installation of (1) Isimet S-303-VA-1-1-X-U-F8 120 V single phase solenoid valve assembly, all necessary 1" sch 40 blk gas piping to loop up / down from the first floor attic space to the newly proposed Isimet panel location, all necessary piping hangers / supports, fire-caulking at floor penetrations, pipe labels at +/- 30' intervals (or either side of Isimet panel), seismic bracing as necessary at +/- 30' intervals, and pre-functional testing upon completion.

Note: Electrical scope performed by other(s).

TYPE OF MATERIAL	QTY	UNIT	UNIT COST	AMOUNT
See attached material back-up	1	FLAT	$395.56	$395.56
Isimet LSP-1211-G3-U-ATV	1	EA	$4,138.75	$4,138.75
18" x 18" x 6" controller cabinet				
(Please allow 4-5 weeks for				
delivery)				
Freight / Shipping	1	FLAT	$55.00	$55.00
Isimet S-303-VA-1-1-X-U-F8	1	EA	$793.35	$793.35
(Please allow 4-5 weeks for				
delivery)				
Freight / Shiping	1	FLAT	$25.00	$25.00
TOTAL				$5,407.66
SALES TAX				included
TOTAL MATERIAL COSTS				$5,407.66

TRADE	HOUR	RATE	AMOUNT
STRAIGHT TIME			
PLM GF		108.63	$0.00
PLM FM	4.0	102.19	$408.76
PLM JM	18.0	92.51	$1,665.18
WELDER		117.60	$0.00
PREMIUM TIME			
PLM GF		147.57	$0.00
PLM FM		138.05	$0.00
PLM JM		123.77	$0.00
WELDER		173.25	$0.00
DOUBLE TIME			
PLM GF		185.57	$0.00
PLM FM		173.01	$0.00
PLM JM		154.17	$0.00
Welder		235.20	$0.00
WAGE BENEFITS			included
TRAVEL	2.25	$92.51	$208.15
TOTAL LABOR COSTS			$2,282.09

MISC. TOOLS & EQUIPMENT

ITEM	QTY	UNIT	UNIT COST	AMOUNT
Rolling scafolding (rental)	0.5	week	$375.00	$187.50
Collins 22A pipe machine (rental)	1	DAY	$55.00	$55.00
				$0.00
				$0.00
Flat-bed delivery truck from shop	2	RND TRIP	$250.00	$500.00
(delivery / pick-up of scaffolding)				$0.00
				$0.00
charge not yet met)				
TOTAL MISC. COSTS				$742.50

SUMMARY		
TOTAL MATERIAL COST		$5,407.66
TOTAL LABOR COST		$2,282.09
TOTAL MISC. COST		$742.50
TOTAL COST		$8,432.25
OVERHEAD & PROFIT	15%	$1,264.84
TOTAL		$9,697.08
BOND		
GRAND TOTAL		**$9,697.08**

2.25 working days are to be added to our contracted schedule timeline. This schedule change may effect other timelines.

EXCLUSIONS:

1) Assessments or fees.
2) Permit.
3) Overtime.
4) Double-time.
5) Electrical scope.
6) Drywall demo / removal.
7) Drywall repair / patch / paint touch-up.
8) Core-drilling.
9) Pressure gauge(s) / pressure regulator(s).
10) X-ray / deep scan of concrete deck.
11) Calculation(s) / drawing(s) / engineering.
12) Location(s) other than specified.
13) Qty(s) other than specified.
14) Material(s) other than specified.

See attached back-up sheets for detailed quantities, etc. The above pricing is only for items contained on this sheet. If any major items were missed during that takeoff, they are not contained in the pricing herein, and are subject to a supplemental pricing for that work.
This pricing is good for 30 days.

Submitted by;

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

REQUEST FOR INFORMATION
RFI-191

SUBJECT:	Emegency Gas Shut Off Valve	**DATE:**	04/08/2019
PROJECT:	Magnolia Science Academy	**PROJECT NO.:**	18049
		REQUIRED:	04/11/2019
TO:	Etmny Cornejo	**COST IMPACT:**	POTENTIALLY
	Franco Architects Inc.	**DAYS IMPACT:**	POTENTIALLY
FROM:	Elizabeth Lara		
	Oltmans Construction Co.		

Co-Author: P.V. & C. PLUMBING **Contact:** Kris Gerke **Co-Author RFI Number:** PV&C 2027-01

Request:

Requested by Jeremy Snykes, PV&C, 4/8/19:

Per the end user job walk on 4/3/19:

The gas system on the plumbing drawings P8.0 doesn't include an emergency gas shut off valve in the class room (chemistry lab #201) to shut off to turret's in case of an emergency. Please provde a model and location for the valve.

Suggestion:

PV&C suggestion: We can pipe from the first floor through the valve and back to the first floor where the gas system was originally shown. This will help to keep the piping footage close to the original and hopefully not affect the sizing of the system.

Answer: [X] **Accept Suggestion**

Ronald A. Hyle

Answered By:

Date: 4-9-19

Distribution:

P. V. & C.
PLUMBING & PIPING INC.
1620 S. Grove Ave Unit B, Ontario, Ca 91761
(909)595-9434 Fax (909)595-8754

Request For Information

Date: 4/3/2019 **Ref No. 2027-01**

Attn: Jeff Rich **Project Title: Magnolia Science**

Reference: P8.0

Request:

The Gas system on P8.0 does not include an Emergency Gas shut off valve in the class room to shut the gas off to the turret's in case of an emergency. Please provide a model and location for the valve.

Suggestion:

We can pipe from the first floor through the valve and back to the first floor where the gas system was originally shown. This will help to keep the piping footage close to the original and hopefully not effect the sizing of the system.

Jeremy Syker

4/3/2019

Signature **Date**

ISIMET – LABORATORY SERVICE PANEL W/ MICROPROCESSOR & SOLENOID ASSEMBLY

Project Owner: _____

Project Name: Magnolia Science Academy

Project Address: _____

Room # for Installation: _____

(or # of Units if Room # unknown)

****MUST BE FIRE RATED ENCLOSURE - 18 X 18 X 6)

ISIMET Job #:

Equipment Specifications Model #: LSP – 1211-G3-U-ATV

☑ White Powder Coat Finish Door (1) ☐ Brushed Stainless Steel (2) ☐ Gray PC Enclosure W/ SS Door (4)

☐ Surface Mount (1) ☑ Flush Mount (2)

Enclosure ☐ 16 X 14 X 6 ☑ 18 X 18 X 6 ☐ 24 X 24 X 6 ☐ Other_____

Output Circuit ☑ **Single** ☐ **Dual** **Panel Switches** ☑ **1** ☐ **2**

Secondary Service: ☐ **Local** ☐ **Remote**

Services Controlled:

Service	Size	Valve	Solenoid
Natural Gas	1"	XU	300

Enclosure Bulkhead Type:

☐ Standard Assembly w/ Grommets

☐ "AT" - Air Tight w/o Vent

☑ "ATV" - Air Tight w/ Vent

Coil Voltage: 24vac **Control Voltage:**
24-vac Control applies only to secondary output when using 120-vac Coil; Otherwise all control & coil voltage is 24-vac or 12-vdc.

Piping Configurations:

☑ Top – to – Bottom

☐ Bottom – to – Top

☐ Custom _____

Inlet Ball Valve
"XU" Ball Valve without union (Fuel Gas Systems)
"TU" May be used on ½" thru 2" (General Service)
"TUT" are for ½", ¾" & 1" (General Service)
TUT Non Lead Free Only – TUT to be phased out Mid-Summer

Options:

☐ "L" - Door Louver

☐ "T" - Tee-Handle Operator

☐ "LS" - RF Module

☑ "F" - Y-Strainer

☑ "U" - Added Union (Fuel Gas Only)

☐ "EP" - Explosion Proof

☐ "P" - Piano Hinge

☐ "F2" - 2hr Fire Rated

☐ "D" – 12 VDC Output

☐ "B" - Backup Battery

CAUTION!

- **Installation must comply with all local codes and ordinances.**
- **Connect only 120 VAC to this equipment.**
- **Refer to Model Number Description for Model Designators.**
- **Failure to follow recommended installation, operation, and / or maintenance procedures listed in the manual may void product warranty.**

Application:
The *ISIMET* Laboratory Service Panel operates as a single output controller incorporating either a solenoid valve assembly or electrical contacts along with the digital switching mechanism within a single enclosure. An internal junction box houses the 120-vac line voltage along with transformer and circuit board. LSP is not suitable for application directly exposed to weather or wet conditions.

Door Panel Labeling:
Single Output Solenoid Systems are labeled per Enclosure Style i.e. **"NATURAL GAS SERVICE PANEL"**

Dual Output Systems are labeled **"LABORATORY SERVICE PANEL"**

Door Panel Label Options:

☐ **LABORATORY SERVICE PANEL** ☐ **NATURAL GAS SERVICE PANEL**

☐ **DOMESTIC WATER SERVICE PANEL** ☐ **COMPRESSED AIR SERVICE PANEL**

☐ **LP GAS SERVICE PANEL** ☐ **CUSTOM**

*Custom*_____

Electrical Specifications:

Style	# Output Circuits	Output Rating	Transformer	Relay Rating
LSP	1	1.5 amp @ 24 vac	2 amp @ 25VCT	1 @ 1.5 amp @ 24 vac
LSP	2	1.5 amp @ 24 vac	3 amp @ 25VCT *	2 @ 1.5 amp @ 24 vac
LSP	Custom	1.5 amp @ 24 vac	3 or 4 amp @ 25VCT *	1.5 amp MAX.
LSP	Custom-3"	1.5 amp @ 120 vac	1 amp @ 25VCT	1.5 amp MAX.

*Based on Specific Output Ratings.

Enclosure Features:
Door Lock – All units are provided with a key door lock
Operation - Key Switch: Momentary switch for an "ON" Cycle
Control Switch – Activates the output circuit with keying for "ON".
Push Button Switch: Momentary contacts disengage the system requiring re-keying to active "ON".
Panic Notification – The unit is equipped with a "Panic" output circuit that can be utilized as a notification signal to an alarm system. One Circuit is a dry-contact. The second Circuit can be field configured as a dry-contact or as 24-vac output.
LED Indicators – A Green "ON" or active LED illuminates with service "ON". A lower Red LED indicates that "Panic" has interrupted service and the notification circuit is active.
Standard Units are Flush Mounted W/ White Powder Coat Door
Resets included on all solenoid outputs

Dual Output Circuit Option:
The unit is available as a dual output system where the second output controls a 24-vac device that is remote of the Service Panel.

Other Options: Enclosure size varies based on specific custom assemblies. Four inch deep boxes are available for piping through ¾" for custom applications.
Valve assemblies utilizing General Service Solenoids are non-lead free but are optionally available as lead free assemblies.

Program Setting Options:

NOTES: Setting Circuit Function = 2 & Circuit Timing = 3 results in no timing operation. Setting Circuit Function = 3 & Circuit Timing = 3 results in separate timing for Circuits 1 & 2 based upon setting Standard Circuit Timing and equivalent Fan Timing.

Choice	Function	Options
	EMS Energy Management	1 – EMS Disables Unit Operation 2 – EMS Enables Unit Operation 3 – Timing Function Enables Unit Operation
	EMS Timing Function	1 – 8 Hours 2 – 10 Hours 3 – 12 Hours
	EMS Input	1 – 24-vac Input 2 – Dry-contact Input
	Alarm Input	1 – 24-vac Input 2 – Dry-contact Input
	Remote Panic Input	1 – Remote Panic Impacts Panic Function 2 – Remote Panic Impacts Alarm Function
	Remote Panic Input	1 – Remote Panic Impacts Panic Function 2 – Remote Panic Impacts Alarm Function
	Panic Output	1 – Standard Output W/ Panic 2 – Momentary Output W/ Panic 3 – Inverted Panic Output
	Circuit Function	1 –Output Circuits Operate by Individual Switches 2 – Output Circuits Operate by a Single Switch 3 – Output Circuit 2 Operates Exhaust Fan
	Circuit Timing Function	1 –No Circuit Timing 2 – Circuits Operate on a Single Determined Time Sequence 3 – Circuit 2 Exhaust Fan Operates on a Time Sequence
	Standard Circuit Timing	1 – 1 Hour 2 – 2 Hours 3 – 3 Hours
	Fan Circuit Timing	1 – 15 Minutes 2 – 30 Minutes 3 – 60 Minutes

MODEL NUMBER DESCRIPTION

ISIMET - LSP
Laboratory Service Panel
Version 4.4

LSP 1 2 1 1 - 2 –

ENCLOSURE SERIES
1 - White Powder Coat Door
2 - Brushed Stainless Steel
4 - Gray Powder Coat W/ Stainless Door & Trim

ENCLOSURE MOUNTING
1 - Surface Mount
2 - Flush Mount

ENCLOSURE STYLE
1 - Fuel Gas Systems
2 - Domestic Water
3 - Compressed Air
4 - Other (Specify)
5 - 4 pole contactor
6 - 8 pole contactor
7 - 30 amp contacts
8 - 40 amp contacts
9 - 50 amp contacts

OUTPUT CIRCUIT
1 - Single Output Circuit (Standard)
2 - Dual Output Circuits *

All output circuits are 24-VAC

SOLENOID VALVE SIZE
1 - 1/2" IPS
2 - 3/4" IPS
3 - 1" IPS
X - Indicates Electrical Enclosure W/ Contacts

OPTIONAL FEATURES
F - In-Line Strainer
U - Added Union
LS - RF Module
L - Door Louver
EP - Explosion Proof Coil
AT - Air Tight Bulkhead Fittings
ATV - Air Tight Vented Bulkhead (Natural Gas & LP Applications Only)
T - Panel Mount Tee-Handle Valve Operator
D - 12 VDC added Output
B - Battery Backup

Field Configurable Notification Output Circuit is Standard on all systems

* Second Output Circuit is intended for operation of a remotely located 24-VAC device

General Service Solenoids	
Body:	Brass
Armature Tube:	Stainless Steel 300
Fixed Core:	Stainless Steel 400
Plunger:	Stainless Steel 400
Spring:	Stainless Steel 300
Shading Ring:	Copper
Orifice:	Brass

Series 220 Lead Free Solenoids	
Body:	Lead Free Brass
Armature Tube:	Stainless Steel 300
Fixed Core:	Stainless Steel 400
Plunger:	Stainless Steel 400
Spring:	Stainless Steel 300
Shading Ring:	Copper
Orifice:	Lead Free Brass

Series 300 Fuel Gas Solenoids	
Body:	Aluminum
Armature Tube:	Stainless Steel 300
Fixed Core:	Stainless Steel 400
Plunger:	Stainless Steel 400
Spring:	Stainless Steel 300
Shading Ring:	Copper
Orifice:	Brass

Ball Valve Specifications:

Apollo or Nibco Bronze 2-Piece Ball Valve. (or equivalent)
All valves are full port, bronze

Valve Station Suffix:
"TU" – General Service Threaded Union - **150 psi CWP 600 psi CWP MSS SP-110**
"XU" – Non-Union - **150 psi SWP 600 psi CWP MSS SP-110**

Valves for fuel gas systems are UL Listed but are not available with the integral output union (XU) only.
Valves greater than 2" only available in "XU"

Recommend the use of Series 220 for all domestic water systems.
2" Lead Free Solenoids are Currently Not Available. Recommend use of S-200-SS for these applications.
S-301 – S-304 & S-308 are 0 Differential; S-305 & S-306 are 0.015 psi Differential.
Caution should be used if S-305 and S-306 solenoids are used in science lab applications.
For domestic water systems, where minimum pressure differentials across the orifice prohibit the solenoid from functioning properly the Series S-100-SS solenoids should be utilized.

ISIMET Model	Port Size (in)	Orifice Size (in)	Min. Pressure Diff.	Flow Factor CV	Operation Pressure Air/Gas psi	Water psi	24/60 VAC VA Inrush	VA Holding
S-101-SS	1/2	.5	0	4.8	230	230	25	14.5
S-102-SS	3/4	.75	0	9.8	230	230	25	14.5
S-103-SS	1	1	0	14	230	230	25	14.5
S-201	1/2	.5	2	4.8	230	230	25	14.5
S-202	3/4	.75	2	9.8	230	230	25	14.5
S-203	1	1	2	14	230	230	25	14.5
S-204	1 1/4	1.375	2	28	150	150	25	14.5
S-205	1 1/2	1.5	2	36	150	150	25	14.5
S-206	2	2	2	53	150	150	25	14.5
S-222	3/4	3/4	2	9.8	230	230	25	14.5
S-223	1	1	2	14	230	230	25	14.5
S-224	1 1/4	1 3/8	2	28	150	150	25	14.5
S-225	1 1/2	1 1/2	2	36	150	150	25	14.5
S-301	1/2	.71	0	4.0	3	171,600 *	45	27
S-302	3/4	.71	0	4.9	3	241,500 *	45	27
S-303	1	1.26	0	1.2	0.75	635,500 *	45	27
S-304	1 1/4	1.26	0	14	0.75	762,700 *	45	27
S-305	1 1/2	1.89	0.015	41	3	2,225,530 *	45	27
S-306	2	2.0	0.015	50	3	2,732,994 *	45	27
S-501	1/2	.5	3	4.2	225	225	12.9	8
S-502	3/4	.75	3	6.4	225	225	12.9	8
S-503	1	1	4.5	10.5	225	225	12.9	8

* BTU @ 0.60 Specific Gravity W/ pressure drop of 0.5 inch water column

The operation of emergency devices including emergency showers and eyewashes should not be integrated with this system for either activation or deactivation.

Extra Work Authorization

4/22/2019

Job Name: #2027 Magnolia Science Ctr.

Quantity	Description	Cost	Total
21	21'- 1" sch 40 blk pipe (threaded ends)	2.90	60.87
2	2- 1" IPS riser clamps	3.39	6.77
2	2- Holdrite SB2 13"-25" stout brackets	4.12	8.24
2	2- 1" IPS gal 2-hole straps	0.27	0.54
1	1- box 1 ½" long drywall screws (course wood thread)	4.55	4.55
1	1- box #10 x ¾" self-tapping screws	5.13	5.13
6	6- 1" blk ips 150# 90's	2.78	16.68
1	1- 1" x 4" sch 40 gal ips "right to left nipple"	9.00	9.00
1	1- 1" gal ips 150# "right to left coupling"	12.18	12.18
1	1- 1" gal ips 150# coupling	3.91	3.91
2	2- 1" x 4" sch 40 blk ips nipples	3.13	6.26
2	2- 1" x 6" sch 40 blk ips nipples	4.38	8.76
1	1- pint keytite pipe dope	11.41	11.41
1	1- roll yellow #3 gas Teflon tape	6.02	6.02
10	10'- 3/8" zinc coated all thread rod	0.54	5.36
1	1- box ¼" x 2" long x 3/8" rod bottom outlet super screws (wood lag)	17.71	17.71
4	4- 1" IPS loop hangers	0.80	3.20
10	10'- 13/16" uni strut	2.30	23.00
2	2- FNW7847Z4 45-degree open angle brackets	7.48	14.96
4	4- FNW7819Z0037 no spring channel nut (3/8"-16)	0.94	3.74
1	1- box 3/8" nuts	10.76	10.76
1	1- box 3/8" washers	4.81	4.81
1	1- box 3/8" x 1" long machine bolts	5.40	5.40
2	2- 1" IPS strut clamps	1.43	2.86
2	2- pipe labels with 1" high letters (blk on yellow) "Natural Gas"	5.40	10.80
1	1- roll Brady directional arrow tape (1" wide) (blk on yellow) small arrows	38.00	38.00
1	1- quart dark cutting oil	23.21	23.21
1	1- 18 TPI portable band saw blade (compact)	12.65	12.65
1	1- tube fire caulking	9.52	9.52
1	1- 2" bi-metal hole saw	14.96	14.96
		-	-
		-	-
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		-	-
		-	-
		-	-
		-	-
		-	-
		-	-
		-	-

Valve Assembly Submittal

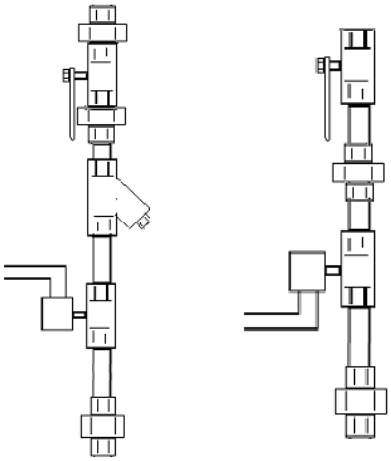
Project Owner:_____

Project Name: Magnolia Science Academy

Project Address:_____

Room # for Installation:_____

(or # of Units if Room # unknown) ****MUST BE FIRE RATED ENCLOS



ISIMET Job #:_____

Utility Services Controlled:					**Options:**						
Assembly	Size	Use	Solenoid Series	Coil Volt	Ball Valve	Added Union	Shock Arrestor	Y-Strainer 20 Mesh	Y-Strainer 80 Mesh	Lead Free	Other
1	1"	Nat. Gas	300	24 vac	XU	✔			✔		
2											
3											
4											
5											

Standard = "XU" and All Fuel Gas Systems
"TU" May be used on 1/2" thru 2" Services
"TUT" are for 1/2", 3/4" & 1" Services
"FB" May be used on 1/2" –thru 2" Services
FB & TUT Non Lead Free Only-TUT to be phased out by Mid-Summer

Coil Voltage:
24 VAC 120 VAC 12 VDC

☑ Flexible Conduit ☐ Flexible Cable

In-Line Strainers are recommended for all fluid systems and other systems where contaminants are present.
Solenoids should not be mounted so that solenoids are positioned in a downward position.
Image is generic and may not reflect actual assembly.

VA - VALVE ASSEMBLY
MODEL NUMBER DESCRIPTION

S - 223 - VA - 1 - 1 - 1 - X

Solenoid Series / Size

Coil Voltage
1 - 24 VAC
2 - 120 VAC
5 - 12 VDC

Connector
1 - Flex Conduit
2 - Flex Cable

Mounting Style
1 - Suspended - Horizontally
2 - Wall Mount Top-to-Bottom
3 - Wall Mount Bottom-to-Top
4 - Wall Mount Right-to-Left
5 - Wall Mount Left-to-Right

Options (Suffix)
A - Shock Arrestor
U - Added Union (Fuel Gas)
F - In Line Strainer

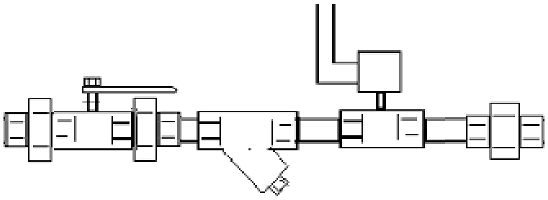
The operation of emergency devices including emergency showers and eyewashes should not be integrated with this system for either activation or deactivation.

DOC# 12035

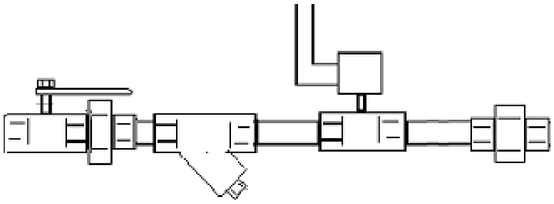
March 2014

ISIMET 103 C. J. Wise Parkway Naples, TX 75568 (903) 897-0737 fax (903) 897-0740

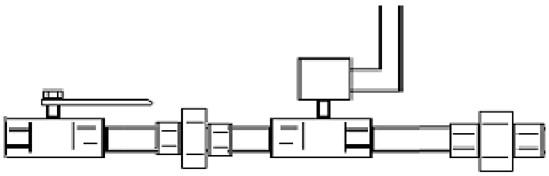
Valve Assembly Configurations



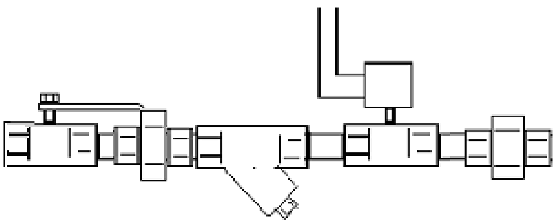
Assembly # 1211-G3-U-AT\ Model ____________
Quantity ____________ Sizes ____________
Mounting ____________



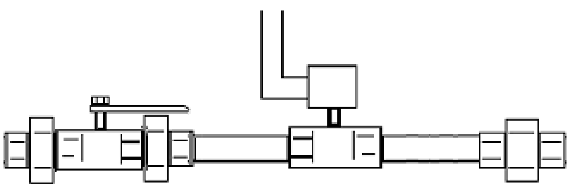
Assembly # ____________ Model ____________
Quantity ____________ Sizes ____________
Mounting ____________



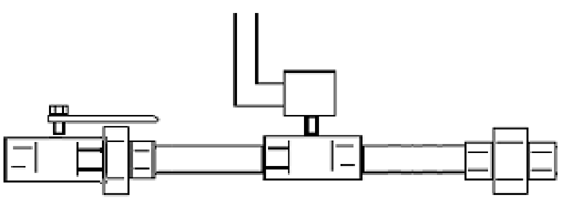
Assembly # ____________ Model ____________
Quantity ____________ Sizes ____________
Mounting ____________



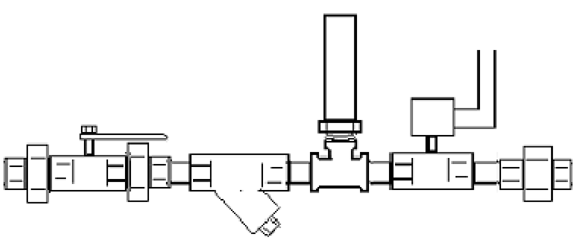
Assembly # ____________ Model ____________
Quantity ____________ Sizes ____________
Mounting ____________



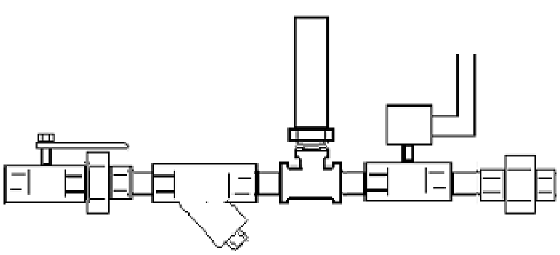
Assembly # ____________ Model ____________
Quantity ____________ Sizes ____________
Mounting ____________



Assembly # ____________ Model ____________
Quantity ____________ Sizes ____________
Mounting ____________



Assembly # ____________ Model ____________
Quantity ____________ Sizes ____________
Mounting ____________



Assembly # ____________ Model ____________
Quantity ____________ Sizes ____________
Mounting ____________

Solenoid Specifications

ISIMET Model	Port Size (in)	Orifice Size (in)	Seat Material	Min. Pressure Diff.	Flow Factor Cv	Operation Pressure Air/Gas psi	Operation Pressure Water psi	24/60 VAC VA Inrush	24/60 VAC VA Holding	120/60 VAC VA Inrush	120/60 VAC VA Holding
S-201	1/2	.5	NBR	2	4.8	230	230	25	14.5	25	14.5
S-202	3/4	.75	NBR	2	9.8	230	230	25	14.5	25	14.5
S-203	1	1	NBR	2	14	230	230	25	14.5	25	14.5
S-204	1 1/4	1.375	NBR	2	28	150	150	25	14.5	25	14.5
S-205	1 1/2	1.5	NBR	2	36	150	150	25	14.5	25	14.5
S-206	2	2	NBR	2	53	150	150	25	14.5	25	14.5
S-208	3	3	BUNA	3	77	225	225	-	-	45	27
S-222	3/4	3/4	FKM/NSF	2	9.8	230	230	25	14.5	25	14.5
S-223	1	1	FKM/NSF	2	14	230	230	25	14.5	25	14.5
S-224	1 1/4	1 3/8	FKM/NSF	2	28	150	150	25	14.5	25	14.5
S-225	1 1/2	1 1/2	FKM/NSF	2	36	150	150	25	14.5	25	14.5
S-301	1/2	.71	BUNA	0	4.0	3	171,600 *	45	27	45	27
S-302	3/4	.71	BUNA	0	4.9	3	241,500 *	45	27	45	27
S-303	1	1.26	BUNA	0	12	0.75	635,500 *	45	27	45	27
S-304	1 1/4	1.26	BUNA	0	14	0.75	762,700 *	45	27	45	27
S-305	1 1/2	1.89	BUNA	0.015	41	3	2,225,530 *	45	27	45	27
S-306	2	2.0	BUNA	0.015	50	3	2,732,994 *	45	27	45	27
S-308	3	3	NITRILE	0	93.6	45	5,188,000 *	-	-	113	113
S-401	1/2	.5	NBR	2	4.8	230	230	25	14	25	14
S-402	3/4	.75	NBR	2	9.8	230	230	25	14	25	14
S-403	1	1	NBR	2	14	230	230	25	14	25	14
S-501	1/2	.5	BUNA	3	4.2	225	225	12.9	8	-	-
S-502	3/4	.63	BUNA	3	6.4	225	225	12.9	8	-	-
S-503	1	1	BUNA	4.5	10.5	225	225	12.9	8	-	-
S-601	1/2	.625	NBR	0	2.8	TORR@.003	MERC @.00039	25	14.5	25	14.5
S-602	3/4	.625	NBR	0	2.8	TORR@.003	MERC @.00039	25	14.5	25	14.5
S-603	1	1	NBR	0	8.3	TORR@.003	MERC @.00039	25	14.5	25	14.5
S-605	1 1/2	1.89	BUNA	.15	41	TORR@.005	MERC @.00039	45	27	45	27
S-606	2	2.0	BUNA	.15	50	TORR@.005	MERC @.00039	45	27	45	27
S-702	3/4	.75	FKM	0	7	105	-	-	-	267	80
S-703	1	1.02	FKM	0	12	105	-	-	-	267	80
S-705	1 1/2	1.26	FKM	0	18	105	-	-	-	267	80
S-706	2	1.50	FKM	0	27	105	-	-	-	267	80
S-801	1/2	.55	FKM	0	3.1	105	105	57	23	57	23
S-802	3/4	.71	FKM	0	5.03	105	105	57	23	57	23
S-803	1	1.02	FKM	3	13	225	225	45	27	45	27
S-805	1 1/2	1.50	FKM	3	29	225	225	45	27	45	27
S-806	2	1.97	FKM	3	47	225	225	45	27	45	27
S-811	1/2	.55	BUNA	0	3.1	105	105	57	23	57	23
S-812	3/4	.71	BUNA	0	5.03	105	105	57	23	57	23
S-813	1	1.02	BUNA	3	13	225	225	45	27	45	27
S-815	1 1/2	1.50	BUNA	3	29	225	225	45	27	45	27
S-816	2	1.97	BUNA	3	47	225	225	45	27	45	27
S-822	3/4	.79	BUNA	3	5.9	225	225	45	27	45	27
S-823	1	1.02	BUNA	3	13	225	225	45	27	45	27
S-825	1 1/2	1.50	BUNA	3	29	225	225	45	27	45	27
S-826	2	1.97	BUNA	3	47	225	225	45	27	45	27
S-832	3/4	.79	PTFE	7.5	5.9	255	-	45	27	45	27
S-833	1	1.02	PTFE	7.5	13	255	-	45	27	45	27
S-835	1 1/2	1.5	PTFE	7.5	29	255	-	45	27	45	27
S-836	2	1.97	PTFE	7.5	47	255	-	45	27	45	27

- *BTU @ 0.60 Specific Gravity W/pressure drop of 0.5inch water column
- Vacuum is rated @ TORR and inches of Mercury
- For Stainless Steel – Refer to S-200 Series Specifications

Solenoid Valve Specifications:
Series 200 are Brass General Service NPT, Normally Closed 2 psi differential Solenoid Valves.
Series 200-SS are Stainless Steel General Service NPT, Normally Closed 2 psi differential Solenoid Valve.
(Use 200-SS for lead free applications where lead free solenoids are not available.)
Series 220 are Lead Free Brass General Service NPT, Normally Closed 2 psi differential Solenoid Valves.
(Series 200 and 220 Solenoids are available W/ DC Latching Coils for use in Water Piping Systems)
Series 300 are Fuel gas, Aluminum construction Normally Closed Solenoid Valves.

(Designed for low pressure fuel gas applications.)

Series 400 are Brass General Service NPT, Normally Open 2 psi differential Solenoid Valves.

(Intended for use as Bypass Valves in Circulated Hot Water Systems.)

Series 500 are Brass General Service NPT, Low Wattage, Normally Closed 3 - 4.5 psi differential Solenoid Valves.

Series 600 are Brass thru 1", 1 ½ & 2 " Aluminum NPT, Normally Closed Solenoid Valves for Vacuum Systems.

(Suitable for Medium to Fine Vacuums only.)

Series 700 are Bronze NPT, Normally Closed Solenoid Valves for Fuel Oil Systems.

Series 800 are Brass NPT, Normally Closed Solenoid Valves for Oxygen, Acetylene, Argon, and CO2 Systems.

Series 810 are Brass NPT, Normally Closed Solenoid Valves for Hydrogen and Nitrogen Systems.

Series 820 are Brass NPT, Normally Closed Solenoid Valves for Hi Pressure Gas Systems.

Series 830 are Brass NPT, Normally Closed Solenoid Valves for Helium Systems.

General Service Solenoids: Where adverse or harsh operating conditions exists in the water system such as the presence of hard water, then it is recommended that only Series 200 Solenoids with 12-VDC latching coils be utilized and that an extensive routine operating and maintenance program be developed by the end user to counter the effects of these conditions. Where operation of water containing corrosive agents, exotic or harsh mediums are intended for control by solenoid then verify application prior to installation. ISIMET cannot warrant against the effects of hard water, corrosive agents, contaminants, or debris present in the piping system or against effects of exotic or harsh substances. If specific operation conditions are in doubt, contact ISIMET prior to installation.

Maximum operating temperature for the solenoid is 180° F / 82.2° C
Coil Rating: Continuous duty totally encapsulated. Voltage Tolerances: +10%, - 10% of applicable voltage.
All Solenoid Standard Coils have a NEMA 1 Rating. Some valves are available as weather resistant and/or explosion proof.
DC Latching Coils are intended for use in applications where the presence of hard or corrosive water is anticipated to cause premature failure in the operation of the valve.

General Service Solenoids	
Body:	Brass
Armature Tube:	Stainless Steel 300
Fixed Core:	Stainless Steel 400
Plunger:	Stainless Steel 400
Spring:	Stainless Steel 300
Shading Ring:	Copper
Orifice:	Brass

Series 220 Lead Free Solenoids	
Body:	Lead Free Brass
Armature Tube:	Stainless Steel 300
Fixed Core:	Stainless Steel 400
Plunger:	Stainless Steel 400
Spring:	Stainless Steel 300
Shading Ring:	Copper
Orifice:	Lead Free Brass

Ball Valve Specifications:

Apollo or Nibco Bronze 2-Piece Ball Valve. (or equivalent)
All valves are full port, bronze

Valve Station Suffix:

"TUT" – General Service Double -Threaded Union (Through 1") **600 psi CWP MSS SP-110**

"TU" – General Service Threaded Union **150 psi SWP 600 psi CWP MSS SP-110**

"XU" – Non-Union **150 psi SWP 600 psi CWP MSS SP-110**

"FB" – General Service Non-Union W/ integral 20 mesh strainer (Jomar Mfg.) (1/2" – 2")**150 psi WSP 400 psi WOG**

FB & TUT Non Lead Free only – TUT will be phased out by Mid-Summer

Valves for fuel gas systems are UL Listed but are not available with the integral output union or strainers (XU) only.

Valves greater than 2" only available in "XU"

Recommend the use of Series 220 for all domestic water systems.
1/2" & 2" Lead Free Solenoids are Currently Not Available. Recommend use of S-200-SS for these applications.
S-301 – S-304 & S-308 are 0 Differential; S-305 & S-306 are 0.015 psi Differential.
Caution should be used if S-305 and S-306 solenoids are used in science lab applications.

Safeway ELECTRIC

"Building a Safe & Secure Southern California"

Request For Change Order

To: Oltmans Construction Co
10005 Mission Mill Road
Whittier, CA 90601

Project: Oltmans Magnolia Science Cnt

RFC No: 19
Date: 5/14/2019
Description: SCOPE:
Electrical Construction: This Change Order Request is for the Added SOW Pursuant to RFI 191 Response. Please see breakdown attached.

INCLUDES:
This proposal includes all materials, tax, equipment, and labor as needed to provide a complete and operable system for work as described herein.

EXCLUDES:
Overtime
Shift work
Permits & Fees
Inclusions and Exclusions of the Original Executed Contract will apply to this cost estimate
Anything not expressly included above

"Building a Safe & Secure Southern California"

Request For Change Order

To: Oltmans Construction Co
10005 Mission Mill Road
Whittier, CA 90601

Project: Oltmans Magnolia Science Cnt

The above work is subject to the same conditions as specified in the original contract unless otherwise stipulated.

Upon approval the sum of $774.00 will be added to the contract price.

Original Contract	$473,950.00
Other Approved Change Orders	$10,847.53
Total Contract to Date	$484,797.53
This Request	$774.00
Other Pending Requests	$70,525.76
Total Contract plus Pending RFCs	$556,097.29

Authorized Signature: _____ Date: _____
Safeway Building Systems, Inc

Authorized Signature: _____ Date: _____
Oltmans Construction Co

1474 Miller Drive | Colton, CA 92324
Phone (909) 824-6441
Fax (909) 824-0571
www.safewaybsi.com
Lic # B/C-10 387886
Lic # C-46, C-7
ACO# 3998

Safeway ELECTRIC

Since 1980

"Building a Safe & Secure Southern California

Change Order Request Form

Customer: Oltmans Construction

Project: Magnoila Science Academy

Job Number: E129718

Date: 10/15/18 COR 19

This COR is for the Added SOW Pursuant to RFI 191 Response.
The following SOW will be performed:

1. Provide power for the 24vac for the gas shut off system located above the T-bar in Room 201 Chem Lab
2. Mount a push button emergency shut off switch, (to be provided by others), on the teachers island/desk as a means of disconnect

Labor Costs

Position	Hours Worked	Hourly Rate	OT Hours	OT Rate	Total Cost
Journeyman	6	$ 85.00		$ 127.50	$ 510.00
Foreman	1	$ 95.00		$ 142.50	$ 95.00
Superintendent		$ 105.00		$ 157.50	$ -
				Mark Up 10%	**$ 60.50**
				Total Labor Costs	**$ 665.50**

Material Costs

See Material Breakout Report Attached	$	91.33
Subtotal	$	91.33
Sales Tax 8%	$	7.31
Mark Up 10%	$	9.86
	$	**108.50**

Equipment Costs

Description	Day Rate	Total
	$ -	$ -
Mark-Up 10%		$ -
Total Equipment Costs		**$ -**

Subcontractors

	$	-
	$	-
	$	-
Subcontractor Costs	**$**	**-**
Mark-up @ 10%	**$**	**-**
Total Subcontractor Costs	**$**	**-**

Total Daily Change Order Due **$ 774.00**

JOB 2899 6302: MSA COR 19 RFI 191
ESTIMATE 1 4007:
DATA SET 11 CommTSC/EST/NECA 07/14...

PRINTED 5/14/2019 1:23:28 PM
MATERIAL Primary
LABOR Primary

NOTES

Item				Material	Labor
Size	**Item Desc**	**Qty**	**UOM**	**Mat Ext**	**Lbr Ext**
Section : Section 001: BR PWR - ADDED SOW PURSUANT TO RFI 191					
	38AST MC CONNECTOR	2.00	EACH	2.54	0.3600
	3/8" 1 HOLE STRAP	15.00	EACH	2.88	0.4500
	MISC MATERIALS	1.00	LOT	26.40	0.3750
1/2"	FLEX CONDUIT	15.00	FEET	7.74	0.4500
1/2"	FLEX STR. CONN	2.00	EACH	8.40	0.3000
4 SQ BOX	1-1/2D 1/2 & 3/4 KO	2.00	EACH	2.18	0.3600
4 SQ	4 SQ BLANK COVER	2.00	EACH	0.86	0.0900
#12-2/C	MC CABLE W/GRN GRD	80.00	FEET	40.32	3.3600
Subtotals for Section : Section 001: BR PWR - ADDED SOW PURSUANT TO RFI 191				91.33	5.7450
Grand Totals				91.33	5.7450

Oltmans
CONSTRUCTION CO.
10005 Mission Mill Road
Whittier, CA 90601
Phone: (562) 948-4242 Fax: (562) 695-9267

POTENTIAL CHANGE ITEM
PCI035

TITLE: Millwork Submittal Changes Added Costs **DATE:** 05/24/2019

PROJECT: Magnolia Science Academy **PROJECT NO.:** 18049

TO:

Magnolia Educational and Research Foundation
250 E. 1st St., 1500
Los Angeles, CA

We respectfully request your approval of the following change to the original scope of work:

DESCRIPTION:

Scope Description at submittal review: This Potential Change Item (PCI) tracks costs associated with the added labor, materials, and equipment as required per changes

_Add $1,840 - Millwork: COR 8339-01 Extend cabinets and counter top per submittal 064000-02 3 feet (drain pipe shaft eliminated at Bio lab Room #202)

Vendor	Description	Amount
S & H CABINETS & MFG.	Finish Carpentry (COR#8339-01)	1,840.00
	SUBTOTAL:	**1,840.00**
	Bond	16.00
	Gross Tax	3.00
	GL	18.00
	SDI	23.00
	Fee	95.00
	SUBTOTAL:	**155.00**
	TOTAL COST FOR THIS CHANGE ORDER REQUEST:	**1,995.00**

APPROVAL:
Oltmans Construction Co.

BY: Trevor Lawton
DATE:

APPROVAL:
Magnolia Educational and Research

BY:
DATE:

S&H CABINETS
10860 Mulberry Ave.
Fontana, CA 92337
909.357.0351
Est. 1954
www.shcabinets.com

November 27, 2018

Oltmans Construction Company
10005 Mission Mill Road,
Whittier, CA 90601
(562)948-4242 Fax (562)463-4984
Trevor Lawton

Project: Magnolia Science Academy
18220 Sherman Way
Reseda, CA 91335

PCO # 8339- 01

WE HEREBY SUBMIT THIS PROPOSED CHANGE ORDER TO provide and install Added Base Cabinet, Upper Cabinet and extended quartz countertop PER RETURNED Shop Drawings #064000-02

Scope: Room 202 Added 3' of Base cabinets and Countertop

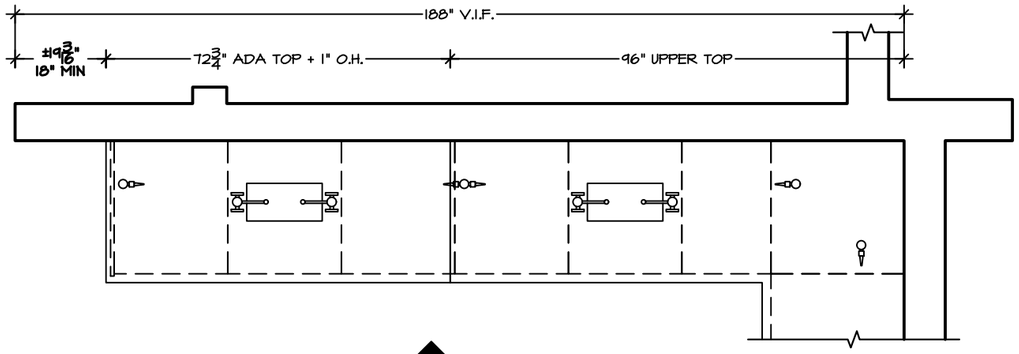
Total Add:$ 1,840

Acceptance of this bid includes by reference, acceptance of our **"Standard Terms and Conditions"** which are an integral part of this bid and include but are not limited to the following: Payment net 30 days. Price valid for 60 days. Excludes "pay when and if paid" or similar contract clauses. Excludes CG20101185 additional insured endorsement. Includes additional insured endorsement form GC20101001. Other forms may be available at an added cost. Includes sales tax if applicable. Includes 10% fee for mobilization, shop drawings, samples, etc. If plastic laminate is not specified, we may select laminate manufacturer and a non-premium priced single color for entire job. This proposal shall become part of contract or purchase order if price is accepted.

Thank You,
Rich Hansen

ACCEPTED BY_____

PART OF 064000-02 REVIEWED SUBMITTAL



6B
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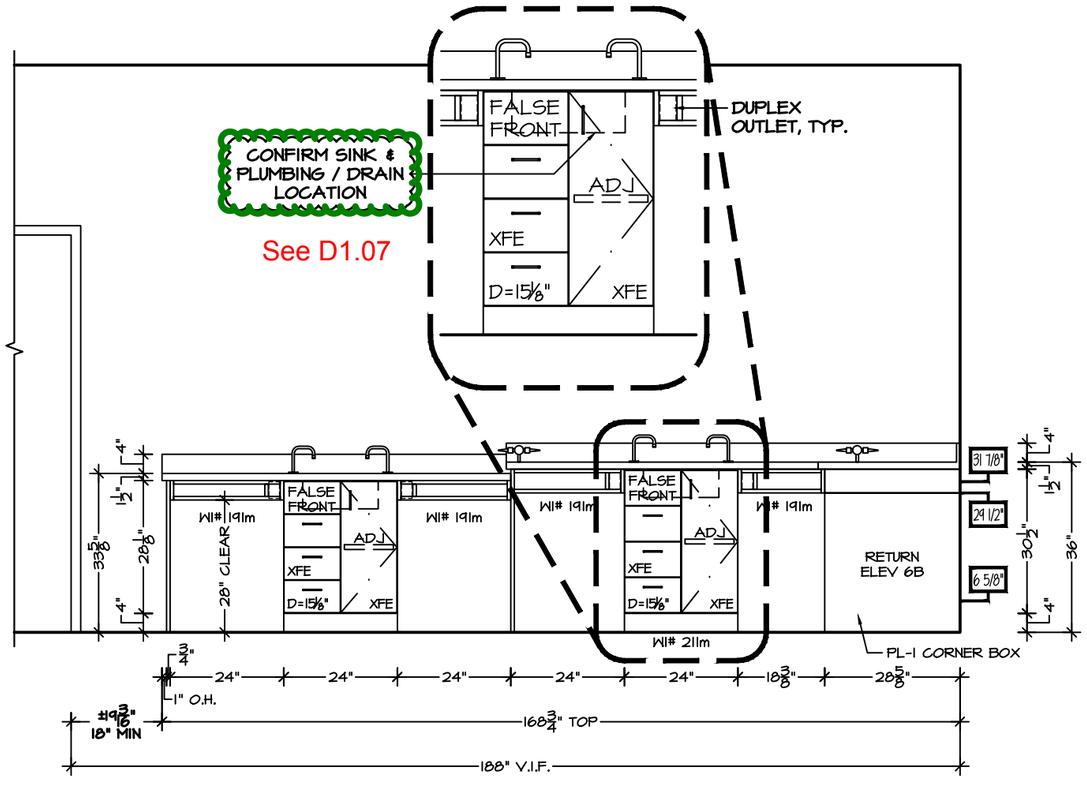
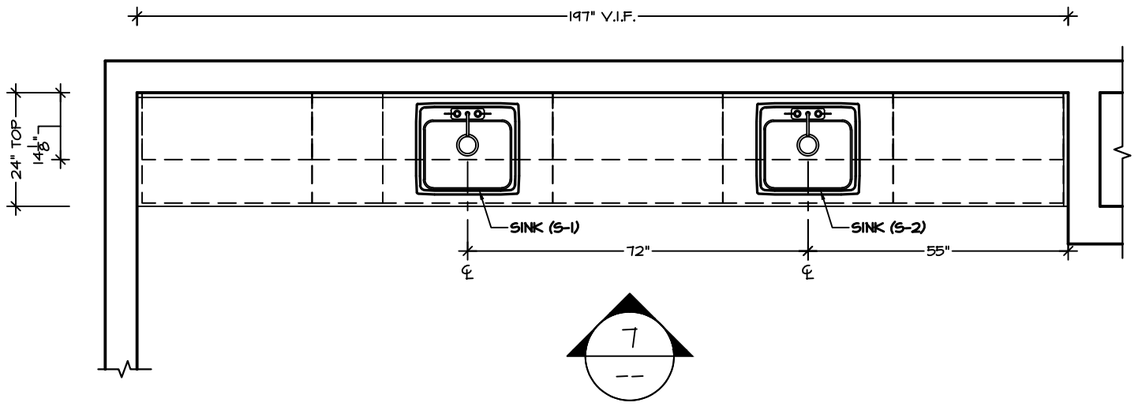


6B LAB DESKS WEST ELEVATION

SCALE: 3/8=1'-0"
REF. ARCH. PLAN: 1/A9.3
REF. ARCH. ELEV: 8/A9.3

COUNTERTOP: QS-1
CABINETS: PL-1



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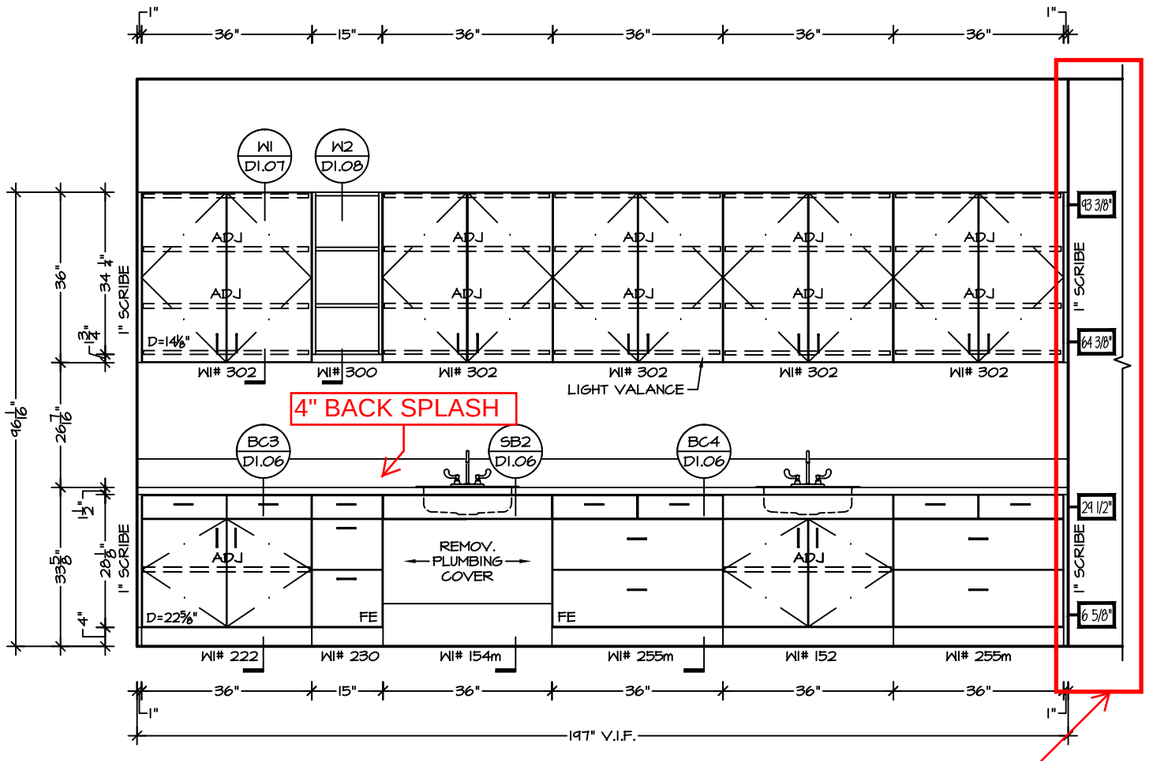

7 BIO LAB, ROOM 202

SCALE: 3/8=1'-0"
REF. ARCH. PLAN: 4/A9.3
REF. ARCH. ELEV: 7/A9.3

COUNTERTOP: QS-1
CABINETS: PL-1

drain pipe shaft got eliminated- extend millwork to wall see SK- 029 attached

TYPICAL ARCHITECT / G.C. SHEET NOTES:	
ALL ADA ACCESSIBLE CASEWORK IS MANUFACTURED 3/8" LESS THAN THE SPECIFIED HEIGHT. THIS ALLOWS COMPLIANCE WITH ADA CODE REQUIREMENTS & SHIM SPACE TO ADAPT TO OUT OF LEVEL FLOORS.	ALL DIMENSIONS ARE APPROXIMATE AND ARE NOT FIELD VERIFIED. USE OF THESE DRAWINGS FOR CONSTRUCTION PURPOSES IS AT YOUR OWN RISK

A/E Please verify all clouded items

PROJECT NAME
Magnolia
Science Academy

WOODWORK INSTITUTE

10860 Mulberry Ave.
Fontana, CA 92337
909.357.0551
Est. 1954
www.shcabinets.com
S&H CABINETS

JOB # 8239AD

SHEET 1.07