



December 09, 2016

Craig A. Miller Sr
Webster University
470 East Lockwood Ave
St. Louis, MO 63119-3194

Via Email

Re: Paric Corporation Project No. 15051
15051-Webster University Interdisciplinary Science Building
CP-032 - ASI#24 Plumbing RFIs

Dear Craig A. Miller Sr:

Paric Corporation proposes to complete the following additional work for the deducted sum of Negative Five Hundred Sixty-Two Dollars And Zero Cents (-\$562.00).

This change will impact the scheduled completion date by 0 days.

- PCI-E-0031 (ASI#24 Misc Plumbing RFI's), Total \$ -562.00

The Owner Contingency will be utilized for this change proposal
Proposed Change Proposal Total: -\$562.00

If this change proposal meets with your approval, please sign and return this proposal for our records by December 16, 2016 at the latest. If accepted this scope will be incorporated into a change order.

Sincerely,

Paric Corporation

Jason Szachnieski
Project Manager

Accepted:

Date: 12/13/2016

Craig A. Miller Sr
Webster University

Declined:

Date:

Craig A. Miller Sr
Webster University

Paric Corporation

PROJECT MANAGEMENT - CHANGE ITEM DETAIL REPORT

15051 - 15051-Webster University Interdisciplinary Science Building

Page: 1 of 1

Date: 09-DEC-16

Time: 02:38 PM

Status: EXT EXT

CI Type	CI Number	Description	Estimated Amount	Quoted Amount	Final Amount	Due to Owner	Notes	Date Sent	Date Received	Date Closed	Budgeted Amount	Billing Amount	Owner CO
EXT	PCI-E-0031	ASI#24 Misc Plumbing RFI's			-562.00	27-SEP-16					-562.00	-562.00	
Vendor Name			Description										
		DeLuca Plumbing LLC	15051	15400.001 S	Plumbing Sub		-535.00	ASI#24 Misc Plumbing RFI's			Provide plumbing changes per ASI#24 and DeLuca COR#17. Deduct \$(535)		
		PARIC	15051	23100.001 M	Risk Management (1.1%)		-6.00	ASI#24 Misc Plumbing RFI's			Risk Management		
		PARIC	15051	23150.005 M	Contractor Default Insurance (1.25%)		-7.00	ASI#24 Misc Plumbing RFI's			Contractor Default Insurance		
		PARIC	15051	23300.001 F	Fee (2.5%)		-14.00	ASI#24 Misc Plumbing RFI's			Contractor Fee		
Total For EXT				0.00	0.00	-562.00					-562.00	-562.00	
Grand Total:				0.00	0.00	-562.00					-562.00	-562.00	

END OF REPORT

Report Parameters

Job:	15051	Project Code:	
From Change Order:		Run Date:	09-DEC-16
To Change Order:		Run Time:	02:38 PM
Status Code:		Operator:	JAS39SZA
Report Type:	DETAIL	Posting Status:	Unposted CI
Print Notes:	Y	Report Code:	PM5000
Group By:	STATUS		

17

DeLuca Plumbing, L.L.C.
8465 Delport Drive
St. Louis MO 63114
TO:
PARIC

Scope: ASI 24 Changes
P0011 Added Hub Drain & above grade piping, Delete Floor Sink & Below Grd
* Note no credit on FS-3 These were Special Order Drains
P101A Changes to 8" Combination Water Service
* Note no credit for 8" valve shown, we discussed during bid review that these are not allowed by fire marshal
P111A Delete venting to floor sink - ass 1' indirect waste piping
P104A / 105A - Deleted Wall Hydrant & added roof hydrant

Clarifications **No Permit Expenses**
No OT Expenses
No Clean Outs Included

Date: 9/21/16

[illegible]

17

DeLuca Plumbing, L.L.C.
8465 Delport Drive
St. Louis MO 63114
TO:
PARIC

Scope: ASI 24 Changes

P0011 Added Hub Drain & above grade piping, Delete Floor Sink & Below Grd

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P104A / 105A - Deleted Wall Hydrant & added roof hydrant

Clarifications

- No Permit Expenses**
- No OT Expenses**
- No Clean Outs Included**

Date: 11/21/16

[illegible]

Subject: Email Bid# B807763**From:** <Charles.Sutton@Ferguson.com>**Date:** 9/21/2016 3:16 PM**To:** <Charles.Sutton@Ferguson.com>**Price Quotation # B807763****FERGUSON - O'FALLON #1606**76 HUBBLE DRIVE
O FALLON, MO 63368-8694

Phone : 636-300-5300

Fax : 636-300-3335

Bid No.....: B807763**Bid Date....:** 09/21/16**Quoted By:** CES**Customer.:** DELUCA PLUMBING LLC
WEBSTER UNIV SCIENCE BDG
8465 DELPORT DRIVE
ST LOUIS, MO 63114**Cust Phone:** 314-427-5551**Terms.....:** NET 10TH PROX**Ship To.....:** DELUCA PLUMBING LLC
WEBSTER UNIV SCIENCE BDG
8465 DELPORT DRIVE
ST LOUIS, MO 63114**Cust PO#..:** WEBSTER UNIV. SCIENC**Job Name.:** WEBSTER UNIV. SCIENCE BDG

Item	Description	Quantity	Net Price	UM	Total
NHPP10	4X10 NH CI SOIL PIPE	15	1200.600	C	180.09
NHCOMBP	4 NH CI COMB LONG TY	2	43.620	EA	87.24
NHSSP	4 NH CI SHRT SWEEP 1/4 BEND	2	31.860	EA	63.72
NHPTP	4 NH CI P TRAP	1	55.860	EA	55.86
DNHHCP	4 HUSKY 4000 NH COUP	11	13.776	EA	151.54
BB3100PLTDP	4 PLTD ADJ STD CLEVIS HGR	3	4.400	EA	13.20
BB3373PLTDP	4 PLTD RSR CLMP	1	8.460	EA	8.46
REC66351	METACALK PIPE COLL F/ 4 PIPE	1	29.778	EA	29.78
BB3373PLTDK	2 PLTD RSR CLMP	1	5.500	EA	5.50
REC66353	2 METACALK PIPE COLL	1	13.902	EA	13.90
NHSSK	2 NH CI SHRT SWEEP BEND	2	13.740	EA	27.48
DNHHCK	2 HUSKY 4000 NH COUP	4	10.248	EA	40.99
NHPK10	2X10 NH CI SOIL PIPE	5	670.200	C	33.51
	SUBTOTAL				711.27
P40PK10	2X10 FT PVC DWV S40 PE PIPE	5	68.291	C	3.41
P40PP10	4X10 FT PVC DWV S40 PE PIPE	30	189.457	C	56.84
PDWVCOMBP	4 PVC DWV COMB	2	17.705	EA	35.41
PDWVP1P	4 PVC DWV P TRAP	1	26.738	EA	26.74
PDWV9K	2 PVC DWV 90 ELI	2	1.210	EA	2.42

IBNU12	6X12 BLK STL NIP	2	126.212	EA	252.42
H60020	1 QT PVC CLR MED CMNT	1	13.428	EA	13.43
	SUBTOTAL				390.67
VF080010G00	8 GALV GRV 90 ELL 10	4	370.860	EA	1483.44
VL080107GEN	LF 8 GALV GRV COUP E GSKT 107N	8	136.780	EA	1094.24
GGPRGRA53X	8 GALV RG A53A S40 PIPE	20	2933.049	C	586.61
	SUBTOTAL				3164.29
VF080011G00	8 GALV GRV 45 ELL 11	2	353.080	EA	706.16
VL080107GEN	LF 8 GALV GRV COUP E GSKT 107N	4	136.780	EA	547.12
W405RWP	LF 4 CI 125# FLG NRS GATE V	1	436.020	EA	436.02
CCCF125LFP	LF 4 CAST 125# COP COMP FLG	2	167.742	EA	335.48
LHARDP10	4 X 10 L HARD COP TUBE	2	3288.000	C	65.76
W331755	LF 1# PREM SOLD	1	28.800	EA	28.80
BTR	B - TANK REFILL RTN ED YES NO	1	38.619	EA	38.62
O30014	8 OZ #5 PASTE FLUX	1	5.424	EA	5.42
GST7882S12G2S1	1-5/8X1-5/8X10 12 GREE H/SL STRUT	10	236.358	C	23.64
FNW7843G4	3-1/2 X 4-1/8 GRN 4H 3 WAY ANG FTG	4	3.744	EA	14.98
	SUBTOTAL				2202.00
NHPK10	2X10 NH CI SOIL PIPE	30	670.200	C	201.06
NH4K	2 NH CI 1/8 BEND	2	8.520	EA	17.04
NH9K	2 NH CI 1/4 BEND	2	9.900	EA	19.80
DNHICK	2 HUSKY 4000 NH COUP	10	10.248	EA	102.48
BB3100PLTDK	2 PLTD ADJ STD CLEVIS HGR	4	1.800	EA	7.20
	SUBTOTAL				347.58
LHARDG10	1 X 10 L HARD COP TUBE	25	341.400	C	85.35
BB3170CTCUPLTK	2 COP PLTD ADJ SWVL RNG HGR	4	1.060	EA	4.24
C9G	1 WROT CXC 90 ELL 1-1/8 OD	6	3.093	EA	18.56
CMAG	1 WROT CXM ADPT	2	5.046	EA	10.09
C9G	1 WROT CXC 90 ELL 1-1/8 OD	6	3.093	EA	18.56
PFTP303	1-1/2X12 22GA DC BRCH TLPC UNF	1	21.144	EA	21.14
PFH60	DW DISP CONN W/4 CLMP	1	1.686	EA	1.69
PFF173C	1 CTS F/C PLT CP	1	1.230	EA	1.23
W331755	LF 1# PREM SOLD	1	28.800	EA	28.80
O30014	8 OZ #5 PASTE FLUX	1	5.424	EA	5.42
PS0603	OPEN MESH CLO WP 1.5X10 YDS	1	10.602	EA	10.60
BTR	B - TANK REFILL RTN ED YES NO	1	38.619	EA	38.62
H10226	26 COP PLTD BRKT 3/4 & 1 HOLES	2	5.376	EA	10.75
	SUBTOTAL				255.05

W67C18	*NP 18 SWT FRZLES WALL HYD	1	195.760	EA	195.76
LHARDF20	3/4 X 20 L HARD COP TUBE	15	235.800	C	35.37
	SUBTOTAL				231.13
WSRHMS	*NP SAN MOD ROOF HYD MTG SYS	1	693.720	EA	693.72
C9F	3/4 WROT CXC 90 ELL 7/8 OD	4	1.260	EA	5.04
CMAF	3/4 WROT CXM ADPT	1	1.974	EA	1.97
REC66352	1-1/2 METACALK PIPE COLL	1	11.898	EA	11.90
CTKKF	2X2X3/4 WROT CXCXC TEE	1	17.385	EA	17.39
	SUBTOTAL				730.02

Subtotal: \$8032.01

Inbound Freight: \$0.00

Tax: \$0.00

Order Total: \$8032.01

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at http://wolseley.com/terms_conditionsSale.html. Govt Buyers: All items quoted are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.

Sanitary Above Ground - No Hub				
Pipe	4"	15.00	0.20	3.00
Pipe	2"	5.00	0.12	0.60
Combo	4"	2.00	1.19	2.38
Sweep	4"	3.00	0.80	2.40
Sweep	2"	2.00	0.42	0.84
HD Bands	4"	8.5	0.05	0.43
HD Bands	2"	2.5	0.05	0.13
Hangers	4"	3.00	1.58	4.74
RiserClamp	4"	1.00	0.33	0.33
RiserClamp	2"	1.00	0.33	0.33
Sleeves	4"	1.00	1.50	1.50
Sleeves	2"	1.00	1.50	1.50

TOTALS-San Above:	Pipe Ft	Ft/day/man	Labor Hrs
No-Hub	20	9	18.17

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San Waste**Below Ground -****PVC Schedule**

40		35.0	Labor Hrs	
Pipe	4"	30.00	0.08	2.40
Pipe	2"	5.00	0.06	0.30
Combo	4"	2.00	0.81	1.62
Sweep	4"	1.00	0.81	0.81
Sweep	2"	2.00	0.27	0.54

San Waste Below**Ground - PVC Schedule**

40	Pipe Ft	Dig Ft	Ft/day/man	Labor Hrs
	35	35	49	5.67

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②

P 101A

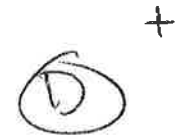
Credits

		U/C Lab	Ext
-4 8"	Grooved 90	3.63	-14.52
-8 8"	Grooved Couplings	0.16	-1.28
-20 8"	Galvanized Pipe	0.13	-2.6
			-18.4



Adds

2 8"	Grooved 45	3.47	6.94
4 8"	Grooved Couplings	0.16	0.64
1 4"	Gate Valve	2.51	2.51
2 4"	Flanges	0.98	1.96
2 4"	Copper Pipe	0.18	0.36
			12.41



E

Sanitary Above Ground - No Hub				
Pipe	2"	30.00	0.12	3.60
Sweep	2"	4.00	0.42	1.68
HD Bands	2"	7.0	0.05	0.35
Hangers	2"	4.00	1.58	6.32

TOTALS-San Above:	Pipe Ft	Ft/day/man	Labor Hrs
No-Hub	30	20	11.95

WEBSTER ISB ASI 24

			LABOR	
QTY			Unit	Subtotal
Domestic Water				
Pipe - L	1"	25.00	0.07	1.75
Elbow	1"	14.00	0.63	8.82
Hanger	1"	2.00	1.43	2.86
TOTALS-Domestic Water	Pipe Ft	25	Labor Hrs	13.43

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WEBSTER ISB ASI 24

			LABOR	
			Unit	Subtotal
QTY				
Domestic Water				
Pipe - L	3/4"	20.00	0.06	1.20
TOTALS-Domestic		Pipe Ft	Labor Hrs	
Water		20	1.20	

G

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WEBSTER ISB ASI 24

			LABOR	
QTY			Unit	Subtotal
Domestic Water				
Tee	2"	1.00	1.26	1.26
Elbow	3/4"	5.00	0.53	2.65
TOTALS-Domestic	Pipe Ft		Labor Hrs	
Water	0		3.91	

H A

G/H

P104A 105A

Credits

		U/C Lab	Ext	
-1	Wall Hydrant	1		-1
				0
				0
				-1

Adds

1	Roof Hydrant	4		4
				0
				0
				0
				0
				4

----- Forwarded Message -----

Subject:RE: FW: Webster ISB - CP-032 ASI#24 Plumbing RFIs

Date:Fri, 18 Nov 2016 23:03:24 +0000

From:Charles.Sutton@Ferguson.com

To:billp@delucaplbg.com

Price Quotation # B845550

FERGUSON - O'FALLON #1606

76 HUBBLE DRIVE
O FALLON, MO 63368-8694

Phone : 636-300-5300
Fax : 636-300-3335

Bid No.....: B845550

Bid Date...: 11/18/16

Quoted By: CES

Customer.: DELUCA PLUMBING LLC
WEBSTER UNIV SCIENCE BDG
8465 DELPORT DRIVE
ST LOUIS, MO 63114

Cust Phone: 314-427-5551

Terms.....: NET 10TH PROX

Ship To.....: DELUCA PLUMBING LLC
WEBSTER UNIV SCIENCE BDG
8465 DELPORT DRIVE
ST LOUIS, MO 63114

Cust PO#...: WEBSTER UNIV

Job Name.: WEBSTER UNIV. SCIENCE BDG

Item	Description	Quantity	Net Price	UM	Total
SP-S3451Y-C-13-NH4	SMITH 4 NH 16X16X12 FLR SINK W/ BUC	1	1027.150	EA	1027.15
RSTK	Restock & Return Shipping	1	-359.500	EA	359.50

Subtotal: \$667.65

Inbound Freight: \$0.00

Tax: \$0.00

Order Total: \$667.65

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at http://wolseleyna.com/terms_conditionsSale.html. Govt Buyers: All items quoted are open market unless noted otherwise.

----- Forwarded Message -----

Subject: RE: Can I get a quote for an 8" gate valve

Date: Mon, 21 Nov 2016 14:11:42 +0000

From: Jim Sellers <jims@imcosupply.com>

To: 'billp@delucaplbg.com' <billp@delucaplbg.com>

745.00

From: billp@delucaplbg.com [mailto:billp@delucaplbg.com]

Sent: Monday, November 21, 2016 8:11 AM

To: Jim Sellers

Subject: Re: Can I get a quote for an 8" gate valve

Webster - County

On 11/21/2016 8:06 AM, Jim Sellers wrote:

city or county ?

From: billp@delucaplbg.com [mailto:billp@delucaplbg.com]

Sent: Monday, November 21, 2016 7:42 AM

To: Jim Sellers

Subject: Can I get a quote for an 8" gate valve

Architect's Supplemental Instructions

Architect's Project No:
04561.01

Architect's ASI No: 024

Project:
Webster University
Interdisciplinary Science
Building

Date Issued: 08/24/2016

Contract Date:

Reason Code: 05 A/E Scope

Discipline Code: 11 (Plumbing)

Owner:
Webster University

Architect:
Cannon Design
1100 Clark Avenue
St. Louis, MO 63102

Contractor:
Paric Construction

Contract For: General construction

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Indicate your acceptance of these instructions for minor change to the Work as consistent with the Contract Documents and return a copy to the Architect within fourteen (14) business days of the date of issuance of these instructions. If you feel a change in Contract Sum or Contract Time is warranted, please submit an itemized quotation for the changes for approval within fourteen (14) business days of the date of issuance of these instructions prior to proceeding on the Work. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change.

Attachments:

Drawings:

P0011 – Level 01 Area A/B Underfloor Plan – Plumbing
P0101.A – Level 01 Area A Floor Plan – Plumbing
P0104.A – Level 04 Area A Floor Plan – Plumbing
P0105.A – Level 05 Area A Roof Plan – Plumbing
P0111.A – Level 01 Area A Floor Plan – Plumbing Waste and Vent
P0111.B – Level 01 Area B Floor Plan – Plumbing Waste and Vent
P0403 – Risers - Plumbing
<End of Drawing List>

1100 Clark Avenue
St. Louis, Missouri
63102
T: 314.241.6250
F: 314.241.2570
www.cannondesign.com

Reason Codes:
#1. Jurisdictional Agency
#2. Constructor Driven
#3. Document Inconsistency
#4. Fast Track Driven
#5. A/E Scope
#6. Owners Scope
#7. Unforeseeable Conditions
#8. Other

Discipline Codes
#1. Demo-demolition
#2. Div1-Division 1 items on the spec book
(this item is not used)
#3. Electrical
#4. Elevator
#5. Equipment (Changes in equipment,
Owner Purchased)
#6. Fire Protection

Discipline Codes
#7. General Construction (Architectural)
#8. General Conditions (Div. 1)
#9. HVAC
#10. Other
#11. Plumbing
#12. Site Work/Landscaping
#13. Structural

Description: ASI – 024 (RFI-222, 233, 235 & 236)

ASI-022 is being issue for the purpose of addressing RFI-222, 233, 235 & 236)

RFI-222, (P0011 & P0111.A); Provide and install 4" CI Standpipe 2 feet above finish floor for sprinkler system drainage. Refer to sheets P0011, P0101.A & P0111.A.

RFI-233, (P0111.B); Re-route 1-inch drip pan drain line as noted on plan sheet P0111.B, to avoid conflict with structural steel members. Drop down in west wall to connect to tailpiece at scrub sink along wall. Refer to sheets P0111.B for all changes.

RFI-235, (P0101.A & P0403); Revise 8-inch combination fire and domestic water service as noted. Remove 8-inch building service valve as indicated. Install new 4-inch domestic valve on 4-inch domestic service line as shown on drawings P0101.A and riser diagram sheet P0403. Relocate pressure gauge as indicated on plans.

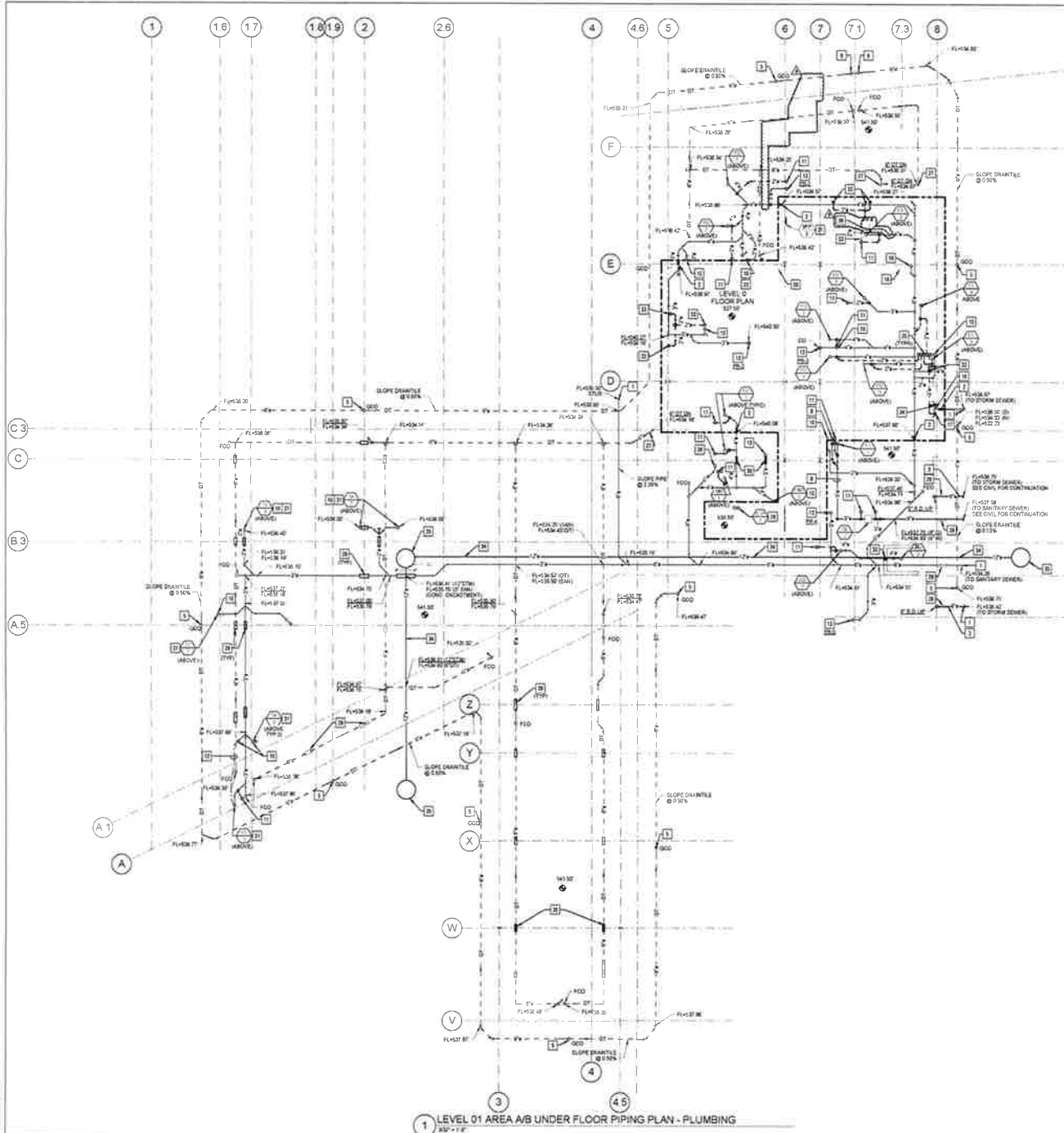
RFI-236, (P0104.A, P0111.A & P0105.A); Provide and install ¾" CW service up through roof to serve Non-Freeze Sanitary Roof Hydrant, Jay R. Smith model 5903 or equal. Refer to sheets P0104.A, P0111.A and P0105.A for all changes. Coordinate exact location of hydrant with Architect prior to rough-in.

Please submit an itemized proposal for changes in contract Sum and Contract Time for proposed modifications to the Contract Documents described herein:

Issued by Architect:

Michael Whitworth

Accepted by Contractor:



- KEY NOTES (THIS SHEET ONLY)**
1. REFER TO CIVIL SITE DRAWINGS FOR THE CONTINUATION OF THE (POD) UNDERGROUND PIPING AND LOCATION OF THE FREE STANDING (FSD).
 2. SLEEVES AND SEAL WATER TIGHT WITH "LINK-SEAL" ASSEMBLY. REFER TO DETAIL ON DRAWING P001.
 3. ROOF DRAIN LEADER.
 4. (NOT USED).
 5. SUB-SOIL DRAINAGE CLEANOUTS AT GRADE. REFER TO DETAIL ON DRAWING P001.
 6. TWO-WAY SUB-SOIL DRAINAGE CLEANOUTS AT GRADE. REFER TO DETAIL ON DRAWING P001.
 7. SANITARY WASTE LINE.
 8. 2" GREASE WASTE LINE UP.
 9. 2" GREASE WASTE LINE TO BE CONNECTED TO 24" GALLON GREASE INTERCEPTOR.
 10. 2" WASTE UP.
 11. 2" VENT UP.
 12. 1/2" TRAP PRIMER CONNECTION UP TO SANITARY PIPING.
 13. (NOT USED).
 14. REFER TO THE CIVIL SITE DRAWINGS FOR THE CONTINUATION OF THE (POD) UNDERGROUND PIPING AND LOCATION OF THE FREE STANDING (FSD).
 15. 8" PUMP DISCHARGE UP FACE OF WALL FROM PUMP PLUMB (S-100A).
 16. 2" VENT UP FACE OF WALL FROM SAND INTERCEPTOR.
 17. 2" VENT UP FROM BELOW FLOOR.
 18. 2" COLD WATER UP TO MECHANICAL ROOM ON LEVEL 1.
 19. EXTEND 24" X 40" DOWN FACE OF WALL TO WALL MOUNTED HOSE BIBS. VERIFY LOCATION WITH MECHANICAL EQUIPMENT. PROVIDE SHUT-OFF VALVE IN LINE.
 20. BACKFLOW PREVENTER FOR DISCHARGED WATER SYSTEM. VERIFY LOCATION WITH MECHANICAL EQUIPMENT. SUPPORT FROM STRUCTURE. DO NOT SUPPORT FROM PIPE. EXTEND DISCHARGE TO FLOOR DRAIN.
 21. BACKFLOW PREVENTER FOR MECHANICAL MAKE-UP WATER. VERIFY LOCATION WITH MECHANICAL CONTRACTOR.
 22. SLEEVE THROUGH GRADE BEAM. COORDINATE WITH STRUCTURAL.
 23. 2" VENT UP FACE OF WALL FROM SUMP PLUMB (S-100A).
 24. 2" VENT UP THROUGH FLOOR TO LEVEL 1. REFER TO DRAWING P01A FOR CONTINUATION.
 25. 4" WASTE UP TO LEAVE TOILET ROOMS ABOVE. REFER TO DRAWING P01A FOR CONTINUATION.
 26. 8" DRAIN TILE DOWN TO OUR DRAINAGE SYSTEM BELOW. REFER TO DRAWING P01B FOR CONTINUATION. REFER TO DRAWING P001 DETAIL 8.
 27. FURNISH AND INSTALL CAST IRON OR 30" X 40" GALVANIZED STEEL PIPE CASING BELOW EACH GRADE BEAM OR FOOTING. CASING SHALL BE TWO PIPE SIZES LARGER THAN THE PIPE IT ENCLOSES. EXTEND ONE FOOT ON BOTH SIDES OF THE GRADE BEAM OR FOOTING.
 28. PIPING TO PASS THROUGH GRADE BEAM IN EAST IN-PLACE SLEEVE. REFER TO STRUCTURAL DRAWINGS. REFER TO DRAWING P002 DETAIL 8 FOR RISER DRAINAGE.
 29. 2" VENT DOWN TO BELOW LEVEL 1. REFER TO PLUMBING DRAWING P01A.
 30. 2" VENT UP.
 31. 1/2" TRAP PRIMER FOR REFERENCE ONLY. REFER TO CIVIL DRAWING CODE FOR CONTINUATION.
 32. PROVIDE CONCRETE MANDREL BASE FOR REFERENCE ONLY. COORDINATE WITH CIVIL.
 33. 4" DRAINAGE UP TO FINE PLUMB ROOM.

Webster UNIVERSITY

Webster University
 Interdisciplinary Science Building

CANNON DESIGN

1100 East Avenue
 St. Louis, Missouri 63102
 T: 314.241.8200
 F: 314.241.2570

William T. & Associates, Inc.
 1750 Highway 100, Suite 100
 St. Louis, MO 63114
 314.886.7600

David Mann & Associates, Inc.
 800 South Vandeventer Avenue
 St. Louis, MO 63113
 314.534.1053

Fahy Group
 Technology
 2101 S. Hanley Rd. Suite 100
 St. Louis, MO 63114
 314.991.2238

Rademacher Lamm, Inc.
 Environmental Sciences & Design
 1405 Brentwood
 St. Louis, MO 63113
 314.922.8810

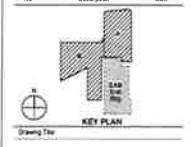
KRM Architects
 Architecture
 8711 Lander Road
 St. Louis, MO 63114
 314.962.8600

Speelman Design & Company
 Interior Design
 6201 Maryland Avenue, Suite 300
 St. Louis, MO 63113
 314.864.5796

BM Design
 Landscape Architects
 1722 Locust Street
 St. Louis, MO 63103
 314.864.5796

Webb Engineering Services, Inc.
 Mechanical & Electrical
 1400 S. 1st Street, Suite 201
 St. Louis, MO 63104
 314.588.0000

9	AS1 (2/4)	(1/1) 222 233 & 236	24 AUG 2016
10	AS1 (1/1)	(1/1) 171	21 JUL 2016
11	AS1 (1/1)	(1/1) 172	19 JUL 2016
12	ADDENDUM 2		24 MAR 2016
13	ADDENDUM 3		24 APR 2016
14	ADDENDUM 4		12 APR 2016
15	ADDENDUM 5		08 APR 2016
16	ADDENDUM 6		17 MAR 2016
17	ADDENDUM 7		21 MAR 2016



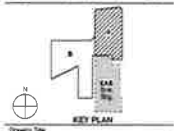
LEVEL 01 AREA A/B UNDER FLOOR PLAN - PLUMBING

Project No: 04161-01 Checked by:

P0011

MSD P# 28874-01 MSD BASE MAP 23K3

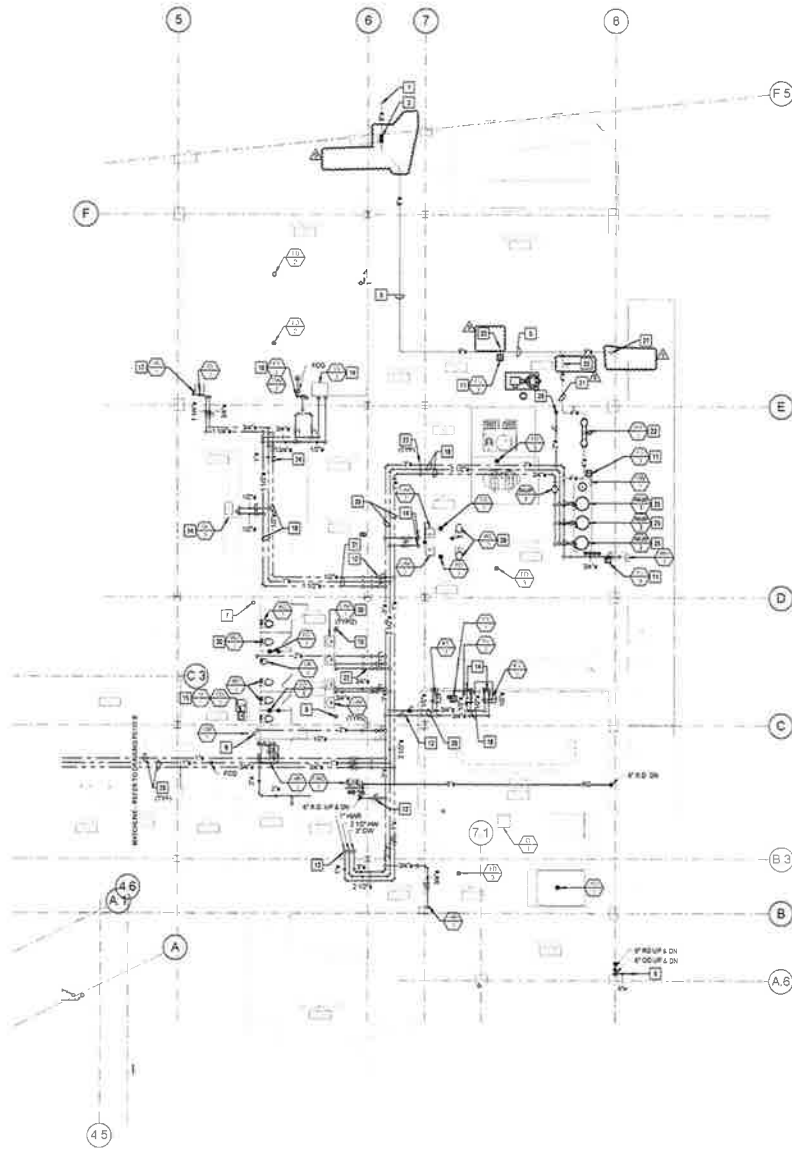
5	AS1 - CD4 (REV 223 225 & 226)	24 AUG 2018
4	ADD ROOM 214	24 MAY 2018
3	ADD ROOM 212	19 APR 2018
2	ADD ROOM 211	12 APR 2018
1	ADD ROOM 210	17 MAR 2018
0	ISSUED FOR CONSTRUCTION (SPD)	01 MAR 2018



LEVEL 01 AREA A FLOOR PLAN - PLUMBING

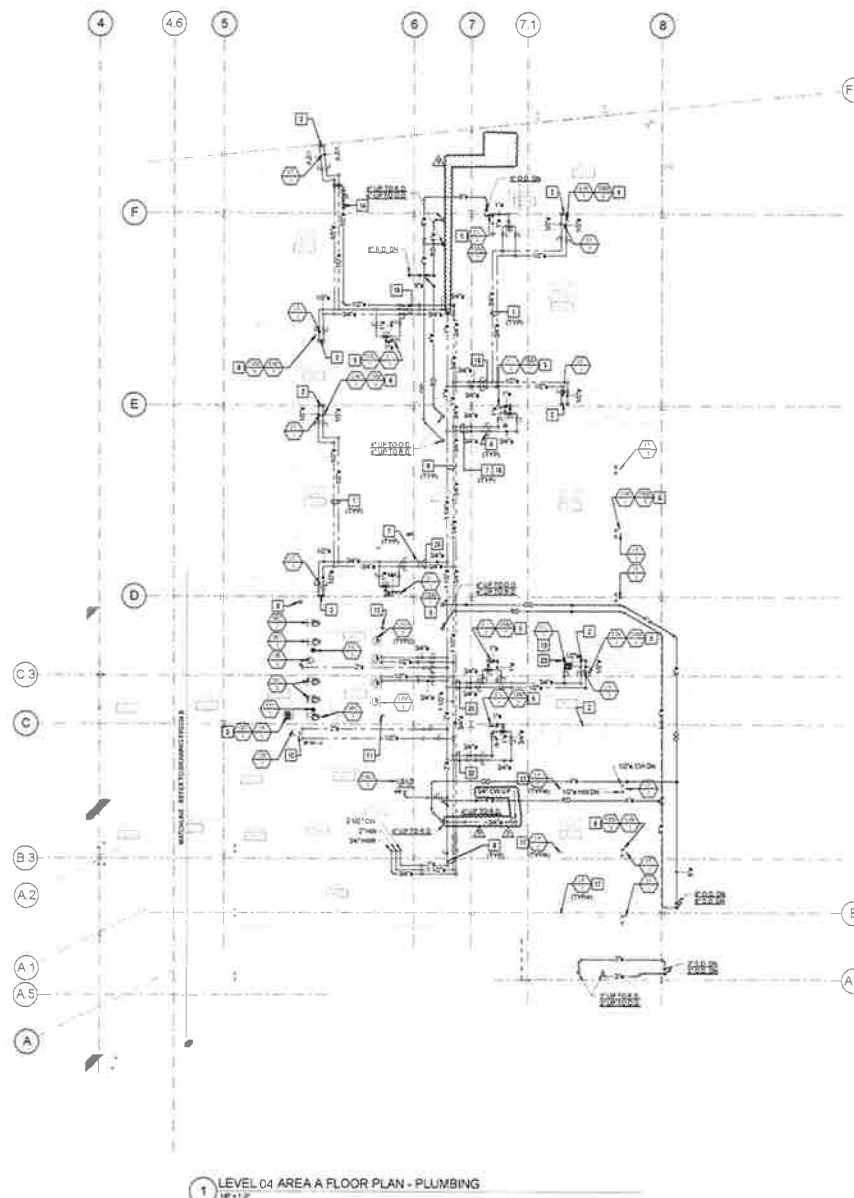
Project No: 04161101 Checked by:

P0101.A



1 LEVEL 01 AREA A FLOOR PLAN - PLUMBING
10'-0" = 1'-0"

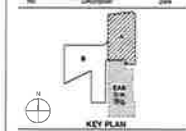
- REVISIONS:**
1. COMBINATION FREEDOMTIC WATER SERVICE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 2. SEWER AND SEAL WATER TIGHT WITH TANK SEAL ASSEMBLY. REFER TO DETAIL ON SHEET P001.
 3. NOT USED.
 4. BUILDING PRESSURE CHASE POSITION TO BE VISIBLE.
 5. GALVANIZED COMBINATION FREEDOMTIC WATER SERVICE ABOVE CEILING. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH IN. REFER TO DRAWING P001 DETAIL 1.
 6. COORDINATE LOCATION OF DOWN SPOUT NOZZLE AND WALL ELBOWS WITH OTHER TRADES PRIOR TO ROUGH IN.
 7. 1/2" SANITARY VENT RISER UP TO SERVE WATER CLOSET, URINALS AND FLOOR DRAIN ON EACH LEVEL.
 8. 2" SANITARY VENT RISER UP TO SERVE LAVATORY ON EACH LEVEL.
 9. 2" SANITARY VENT RISER UP TO SERVE LAVATORY ON EACH LEVEL.
 10. COORDINATE LOCATION OF FLOOR DRAIN WITH LAYOUT OF ROOM AND FOUNDATION BELOW PRIOR TO ROUGH IN.
 11. FURNISH AND INSTALL 1/2" CW 2" HYD AND 1" HW PIPING TO SERVE LEVEL 2. ALSO PIPING WITH WALL ABOVE.
 12. FURNISH AND INSTALL 1/2" CW 2" HYD AND 1" HW PIPING TO SERVE LEVEL 2. ALSO PIPING WITH WALL ABOVE.
 13. FURNISH AND INSTALL 1/2" CW 2" HYD AND 1" HW PIPING TO SERVE LEVEL 2. ALSO PIPING WITH WALL ABOVE.
 14. EMERGENCY SHOWER TO BE SERVED WITH FIELD FURNISHED AND INSTALLED 1/2" TEMPERED WATER TO SHOWER HEAD FROM WALL RECESSED CABINET. EYEWASH MOUNTING OF ASSEMBLY WILL REQUIRE 2" WASTE AND 2" VENT TYPICAL FOR ALL INSTALLATIONS. REFER TO DRAWING P001 DETAIL 1.
 15. WALL RECESSED CW AND HW HOSE STATION. SERVE WITH 1/2" CW AND 1/2" HW FROM CLINICAL SINK. COORDINATE LOCATION AND MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO ROUGH IN.
 16. PIPING IN EACH ROOM SHALL BE RUN AS MUCH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH IN.
 17. NOT USED.
 18. PIPING IN CORRIDOR TO BE AT BOTTOM OF STRUCTURAL STEEL CHASSIS MEMBERS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH IN.
 19. GALVANIZED DOMESTIC WATER TO DOMESTIC WATER BREAKFLOW PREVENTER.
 20. DRAIN PIPING DOWN TO BELOW STRUCTURAL STEEL MEMBER HOLD TIGHT TO BOTTOM OF STEEL.
 21. DOMESTIC WATER SERVICE BACK FLOW PREVENTER. SEE OR TO DRAWING P001 DETAIL 1.
 22. HOT WATER RETURN CIRCUIT SETTER VALVE. LOCATE IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. REFER TO DRAWING P001 DETAIL 1.
 23. REFER TO DRAWING P001 DETAIL 1 FOR HOT WATER HEATER PIPING DIAGRAM.
 24. DOMESTIC WATER SERVICE DOWN TO LEVEL 2. REFER TO DRAWING P001 FOR CONTINUATION.
 25. GALVANIZED WATER SERVICE DOWN FOR FIRE SERVICE.
 26. REFER TO DRAWING P001 DETAIL 1 FOR RISER DIAGRAM.
 27. REFER TO DRAWING P001 DETAIL 2 FOR RISER DIAGRAM.
 28. REFER TO DRAWING P001 FOR PUBLIC TOILET ROOM RISER DIAGRAM.
 29. REFER TO DRAWING P001 FOR WATER SUPPORT RISER 1.
 30. 1/2" DOMESTIC WATER SERVICE VALVE.
 31. 1/2" 1/2" STRONGHOLD FOR SPINKLER DRAINAGE. SEE P001 APP.



KEY TO NOTES (THIS SHEET ONLY)

- 1 PIPING IN EACH ROOM TO BE RUN AS HIGH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 2 1/2" CW, 1/2" HW AND 2" VENT DOWN IN WALL TO SERVE FUTURE.
- 3 BREAKROOM SINKS ARE TO BE SERVED FROM WATER, WASTE AND VENT PIPING IN ISOLATED ROOM CHASE.
- 4 PROVIDE SHUT-OFF VALVES AT THE ENTRY TO EACH ROOM.
- 5 EMERGENCY SHOWN TO BE SERVED WITH FIELD FURNISHED AND INSTALLED. TYPICAL POSITION OF ASSEMBLY TO 2" WASTE AND 2" VENT. TYPICAL FOR ALL INSTALLATIONS. REFER TO DRAWING P014 DETAIL 4.
- 6 DESK MOUNTED EMERGENCY FRESHWATER TO BE LOCATED AT SINK. INSTALL THERMOSTATIC MIXING VALVE IN GASKET SPACE BELOW THE SINK. COORDINATE SINKING REQUIREMENTS OF ENGINEER AND TFW WITH THE GENERAL CONTRACTOR. TYPICAL FOR ALL INSTALLATIONS. REFER TO DRAWING P014 DETAIL 5.
- 7 DRAIN PIPING DOWN TO BELOW STRUCTURAL STEEL MEMBER. HOLD TIGHT TO BOTTOM OF STEEL.
- 8 PIPING IN CORRIDOR TO BE RUN AT BOTTOM OF STRUCTURAL STEEL. CROSS MEMBERS. COORDINATE INSTALLATION WITH AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 9 4" SANITARY VENT RISER UP TO SERVE WATER CLOSET'S URINALS AND FLOOR DRAINS ON EACH LEVEL.
- 10 4" SANITARY WASTE RISER UP TO SERVE WATER CLOSET'S URINALS AND FLOOR DRAINS ON EACH LEVEL.
- 11 2" SANITARY VENT UP TO LEVEL 4. REFER TO DRAWING P014 FOR VENT PIPING TERMINATION.
- 12 FLOOR SINK UNDER COUNTER/STOVE IN CASEWORK. VERIFY LOCATION WITH SINK EQUIPMENT PLACEMENT PRIOR TO ROUGH-IN. COORDINATE FLOOR OPENING WITH THE GENERAL CONTRACTOR.
- 13 HOT WATER RETURN CIRCUIT SETTER VALVE. LOCATE IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. REFER TO DRAWING P014 DETAIL 11.
- 14 NOT USED.
- 15 NOT USED.
- 16 LAB FAUCET. 1/2" CW FOR COLD WATER SERVICE ONLY. PROVIDE TWO FAUCETS FOR EACH CASEWORK. EXTEND CIP PIPING WITH UTILITY CHASE OF EACH SET OF LAB CASEWORK.
- 17 REFER TO DRAWING P014 WATER SUPPLY RISER 6.
- 18 REFER TO DRAWING P014 WATER SUPPLY RISER 5.
- 19 REFER TO DRAWING P014 WATER SUPPLY RISER 4.
- 20 REFER TO DRAWING P014 WATER SUPPLY RISER 3.
- 21 REFER TO DRAWING P014 WATER SUPPLY RISER 2.
- 22 REFER TO DRAWING P014 WATER SUPPLY RISER 1.
- 23 1/2" HW DOWN IN WALL TO SERVE UNDERCOUNTER GLASS WASHEN. VERIFY CONNECTION POINT TO UNIT AND LOCATION. PROVIDE ALL FITTINGS AS REQUIRED.

1 LEVEL 04 AREA A FLOOR PLAN - PLUMBING
10' x 10' P

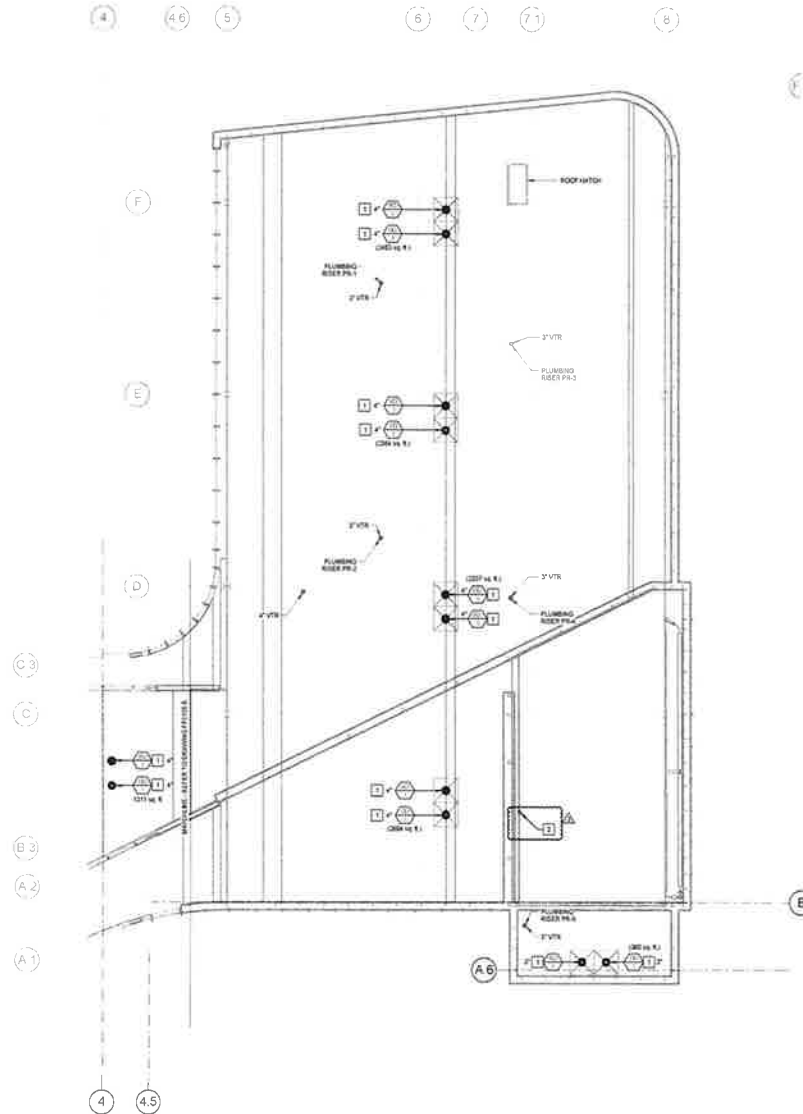


KEY PLAN
Drawing Title

LEVEL 04 AREA A FLOOR PLAN - PLUMBING

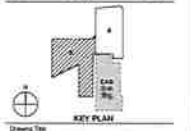
NOTE - PLUMBING NEW WORK

1. CONTRACTOR SHALL RUN/SHOULDER AND INSTALL ROOF DRAINAGE AND OVERFLOW DRAINAGE. REFER TO
SECTION 05 05 00 ROOFING FOR DETAILS.
2. FOR THE LOCATION OF THE ROOF DRAINAGE TO BE INSTALLED, SEE THE ROOF DRAINAGE SCHEDULE. SEE THE
ROOF DRAINAGE SCHEDULE FOR THE LOCATION OF THE ROOF DRAINAGE TO BE INSTALLED.



1 LEVEL 05 ROOF PLAN - PLUMBING A
1/8" = 1'-0"

1. ARI - CM (R1) 223 223 225 6 226	24 AUG 2016
2. ADDITION 24	24 MAY 2016
3. ADDITION 24	18 APR 2016
ISSUED FOR CONSTRUCTION (R1)	27 MAR 2016



**LEVEL 05 ROOF PLAN
AREA A - PLUMBING**

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P0105.A

9. ASH-054 (R1) 222.388.25 4.3.26	24 AUG 2016
8. ASH-014 (R1) 178	21 JUL 2016
7. ADDENDUM #4	24 MAY 2016
6. ADDENDUM #3	19 APR 2016
5. ADDENDUM #2	17 MAR 2016
4. ISSUE FOR CONSTRUCTION (IFC)	21 MAR 2016



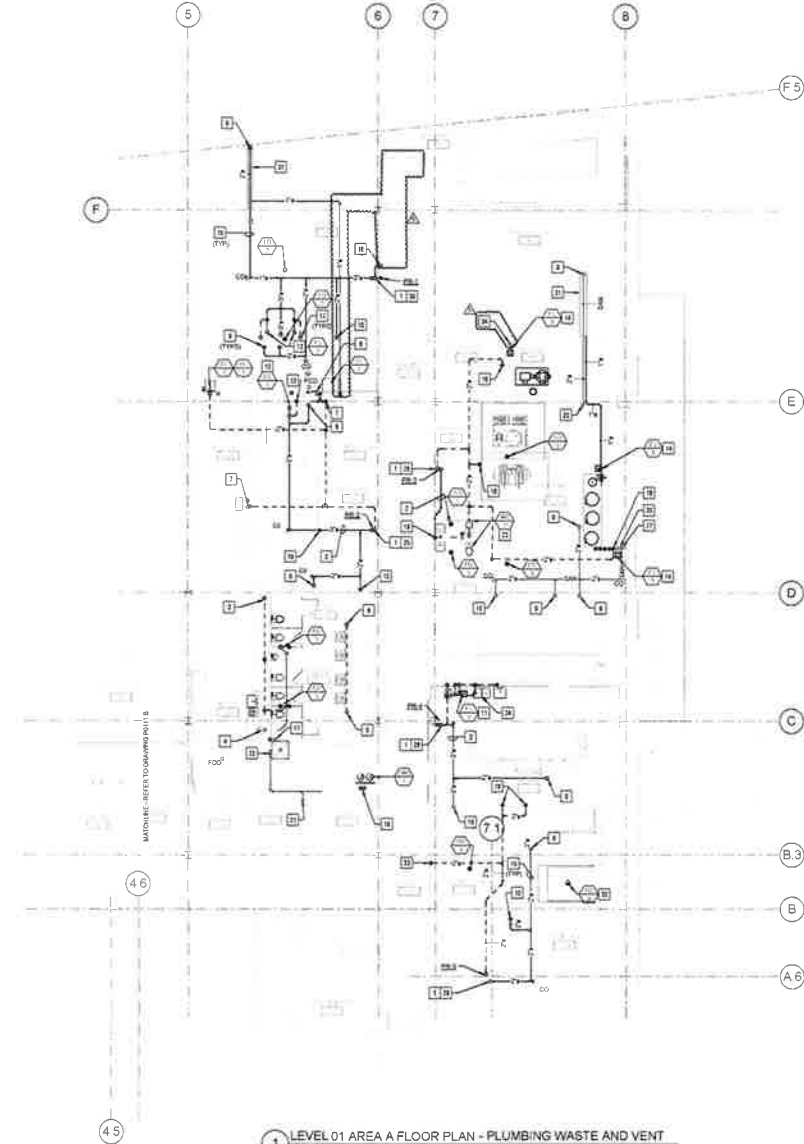
LEVEL 01 AREA A FLOOR PLAN - PLUMBING WASTE AND VENT

Project No. 0450131 Checked by

P0111.A

REVISED NOTES (THIS SHEET ONLY)

1. 2" SANITARY WASTE AND 2" SANITARY VENT RISERS
2. 2" SANITARY WASTE OFF SET ABOVE THE CEILING TO CONTINUE DOWN TO LEVEL 0
3. 2" SANITARY VENT RISER UP AND DOWN
4. 2" SANITARY WASTE UP AND DOWN REFER TO DRAWING POINT FOR RISER DIAGRAM
5. 2" SANITARY WASTE UP AND DOWN REFER TO DRAWING POINT FOR RISER DIAGRAM
6. 2" SANITARY VENT UP AND DOWN
7. 2" SANITARY VENT DOWN IN WALL TO SERVE LAVATORY SINK
8. 2" SANITARY VENT DOWN IN WALL TO SERVE EMERGENCY SHOWER
9. 2" SANITARY WASTE UP TO LEVEL 0 LAB SINK
10. 2" SANITARY WASTE UP TO LEVEL 2 EMERGENCY SHOWER EYE WASH STATION REFER TO DRAWING POINT DETAIL 2/POH3
11. FLOOR SINK TO BE LOCATED BELOW THE CASWORK TO ACCEPT DISCHARGE FROM THE DISHWASHER AND UNDER COUNTER ICE MAKER. COORDINATE LOCATION WITH CABINET AND APPLIANCES
12. 2" SANITARY VENT UP TO LEVEL 2 ALIGN WITH CASEWORK AND WALL ABOVE
13. FLOOR SINK SET TO SERVE LEVEL 2. COORDINATE LOCATION OF FLOOR SINK WITH CASWORK ABOVE AND WITH ABOVE CEILING CONDITIONS ON THIS LEVEL
14. FLOOR SINK SET TO SERVE THIS LEVEL
15. PIPING IN EACH ROOM TO BE RUN AS HIGH AS POSSIBLE TO AVOID CONFLICTS. COORDINATE INSTALLATION AND ROUTING WITH OTHER TRADES PRIOR TO ROUGH IN
16. 2" SANITARY WASTE AND 2" SANITARY VENT RISERS TO SERVE ELECTRIC WATER COOLER ON EACH LEVEL. REFER TO DRAWING POINT FOR WASTE AND VENT RISERS
17. 2" SANITARY WASTE AND 2" VENT RISERS TO SERVE HOP BASIN ON LEVELS 1 AND 3 AND COUNTER TOP SINK ON LEVEL 2. REFER TO DRAWING POINT FOR WASTE AND VENT RISER
18. 2" VENT UP FROM LEVEL 0. REFER TO DRAWING POINT 1
19. 2" WASTE DOWN TO LEVEL 0. REFER TO DRAWING POINT FOR CONTINUATION
20. 2" WASTE DOWN TO LEVEL 0. REFER TO DRAWING POINT FOR CONTINUATION
21. 2" DISCHARGE FROM ELEVATOR SUMP PUMP. EXTEND TO ABOVE THE CEILING OF LEVEL 1 TO JUMP OR CLOSET 115
22. TERMINATE ELEVATOR SUMP PUMP DISCHARGE AT THE MOP BASIN WITH AN IN DIRECT WASTE INTO THE BASIN
23. REFER TO DRAWING POINT DETAIL 2/POH3 FOR PLUMBING RISER DIAGRAMS
24. REFER TO DRAWING POINT DETAIL 4/POH3 FOR PLUMBING RISER DIAGRAMS
25. REFER TO DRAWING POINT SANITARY WASTE AND VENT RISER DIAGRAM 2-2
26. REFER TO DRAWING POINT SANITARY WASTE AND VENT RISER DIAGRAM 3-2
27. REFER TO DRAWING POINT SANITARY WASTE AND VENT RISER DIAGRAM 3-4
28. REFER TO DRAWING POINT SANITARY WASTE AND VENT RISER DIAGRAM 4-1
29. REFER TO DRAWING POINT SANITARY WASTE AND VENT RISER DIAGRAM 5-1
30. TROUGH SAFETY PAN TO BE SUSPENDED BELOW SANITARY WASTE PIPING. EXTEND 1" DOWN TO SANITARY FLOOR RECEPTOR. REFER TO PLUMBING DRAWING POINT DETAIL 1/POH3
31. 2" VENT DOWN IN WALL TO SERVE FLOOR SINK INCLUDING SINK
32. 2" VENT DOWN IN WALL TO SERVE FLOOR SINK INCLUDING SINK



1 LEVEL 01 AREA A FLOOR PLAN - PLUMBING WASTE AND VENT
1/8" = 1'-0"



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