Firestop Submittal Package

078446-Fire-Resistive Joint Systems

Project: Webster University ISB - Drywall SP

Project No.: 15051.900

Contractor: Paric Corporation

Subcontract No.: 150510002

Date: 02/02/17

Submitted by:

Firestoppers

a Division of Rebel, Inc.

Tom Riley - Project Manager (6180235-0582

triley@firestoppers.net

Sub-Contractors to;
Phillips Interior / Exterior Systems, Inc.
Subcontract No.: 150510002

This submittal is auto-generated based on user-selected inputs.
Therefore, Hilti makes no representation as to the suitability of these systems for their intended use.

= 1 hour rated partition (cmu or gyp bd)

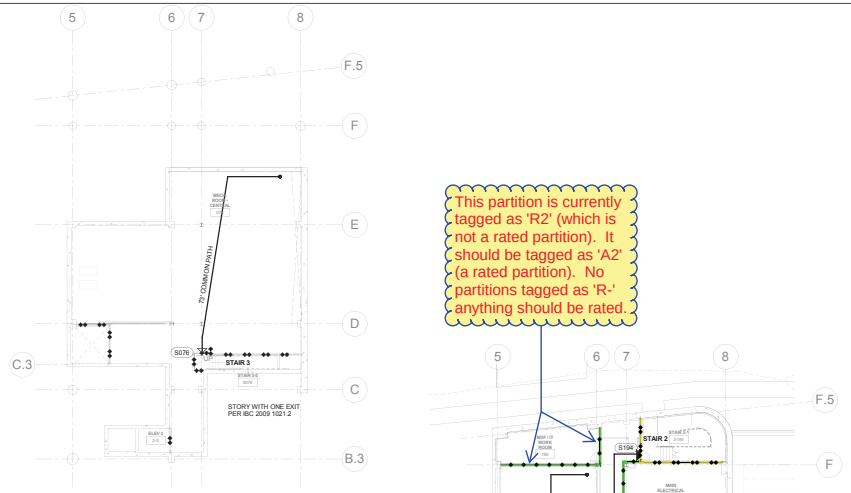
= 2 hour rated partition (cmu or gyp bd)

= 1 hour rated shaft wall

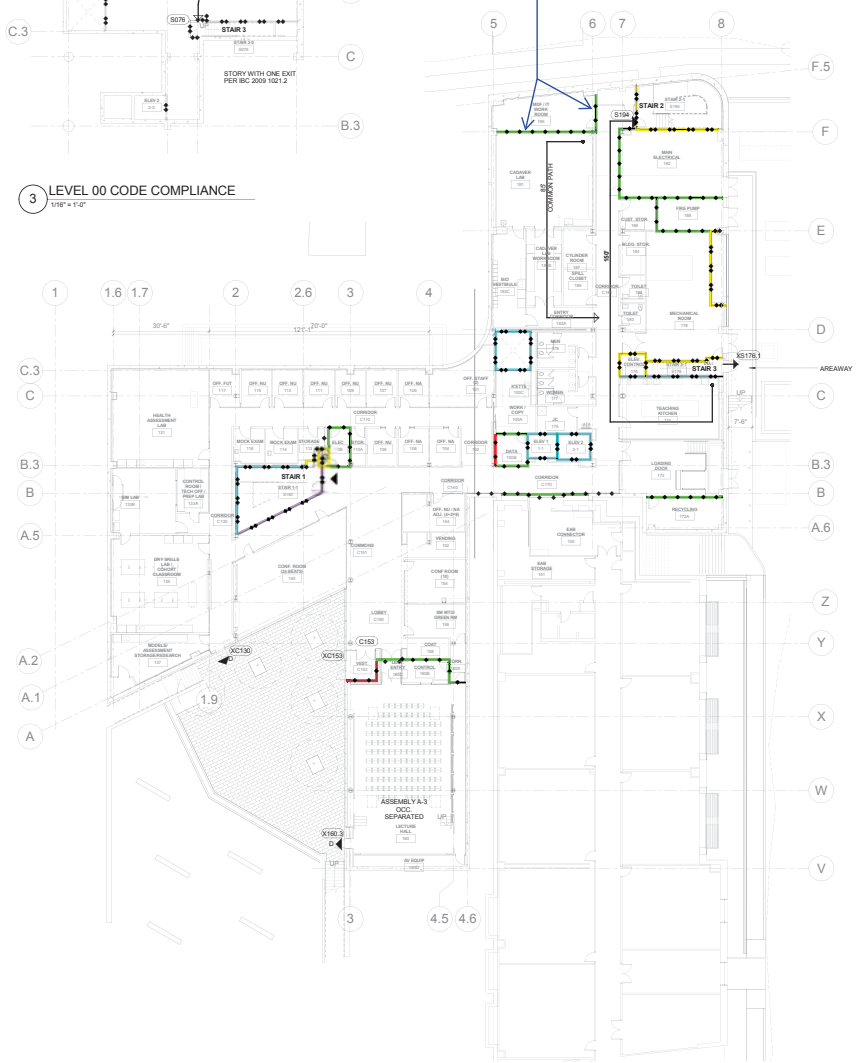
= 2 hour rated shaft wall

= rated glass wall

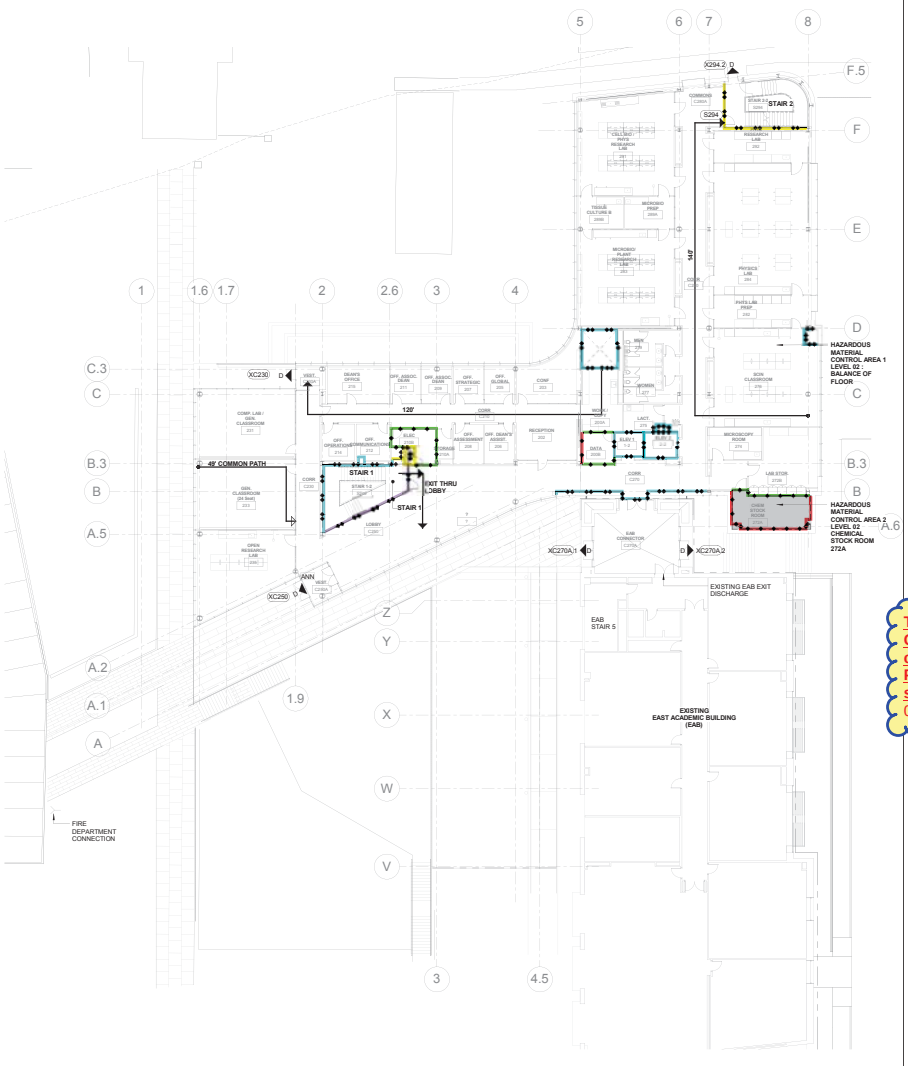
This partition is currently tagged as 'R2' (which is not a rated partition). It should be tagged as 'A2' (a rated partition). No partitions tagged as 'R-' anything should be rated.



3 LEVEL 00 CODE COMPLIANCE
1/16" = 1'-0"



1 LEVEL 01 CODE COMPLIANCE PLAN
1/16" = 1'-0"



2 LEVEL 02 CODE COMPLIANCE PLAN
1/16" = 1'-0"

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2/22/2017 10:37:25 AM

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CANNONDESIGN

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

William Tao & Associates, Inc
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd, Suite 100
St. Louis, MO 63143
314.991.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave
St. Louis, MO 63130
314.725.6616

KWA Architects
Architecture
9721 Litzinger Road
St. Louis, MO 63124
314.962.2580

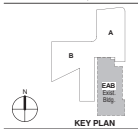
Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

This sheet provided by Cannon Design for clarification of "Rated Partition Scope" in fire stopping submittal
02-22-2017

No.	Description	Date
1	ADDENDUM 1-6	01 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP1)	15 JAN 2016



KEY PLAN

Drawing Title:

LEVEL 01 AND 02 CODE COMPLIANCE PLAN

Project No.: 04561.01 Checked by:

G0202

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= 1 hour rated partition (cmu or gyp bd)

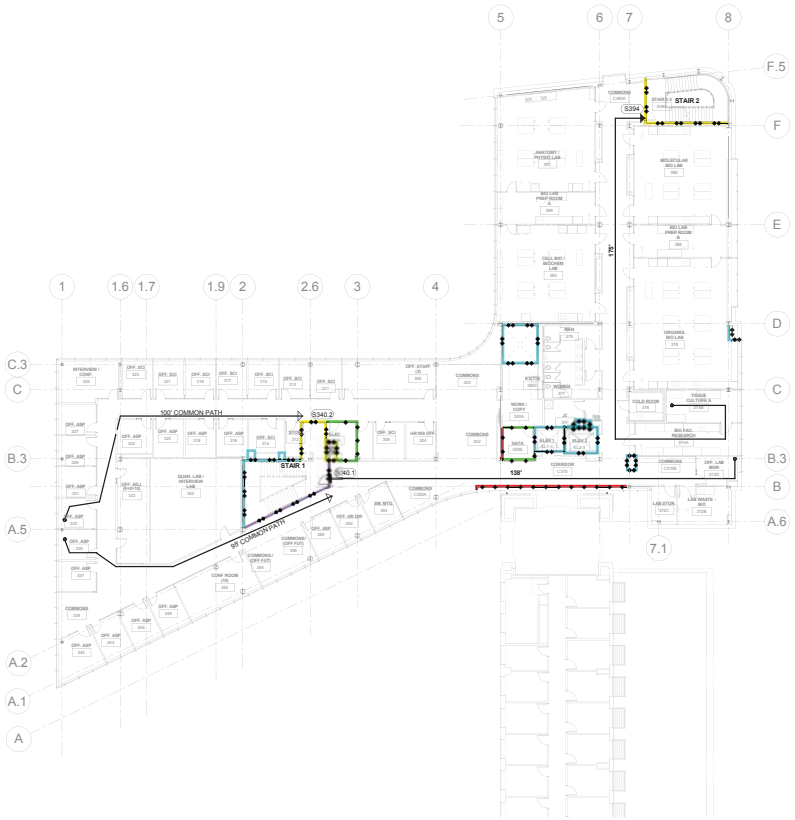
= 2 hour rated partition (cmu or gyp bd)

= 1 hour rated shaft wall

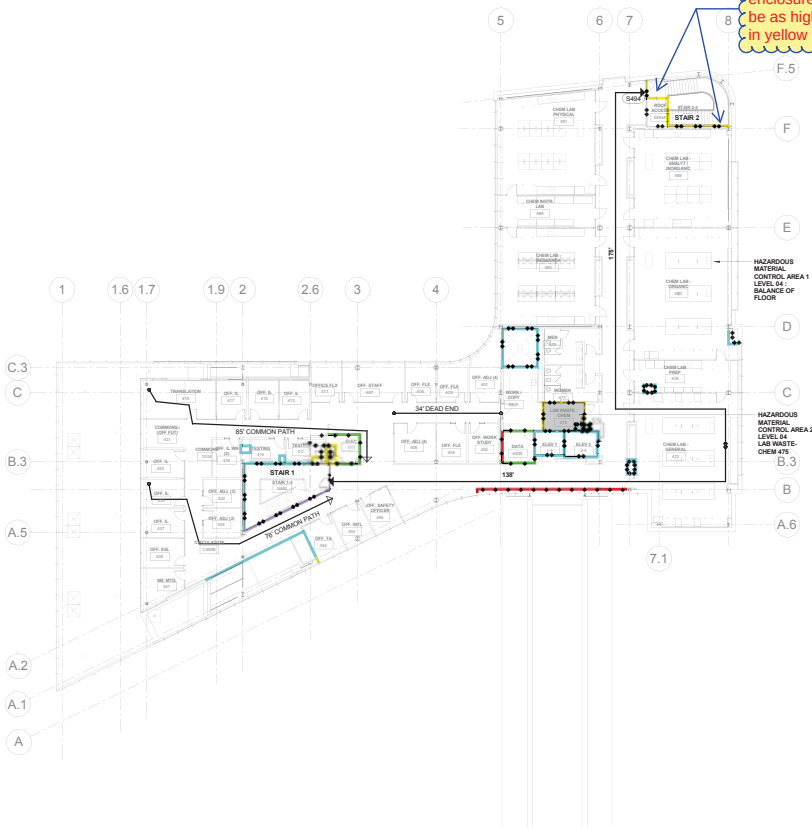
= 2 hour rated shaft wall

= rated glass wall

This stair rated enclosure should be as highlighted in yellow here.



1 LEVEL 03 CODE COMPLIANCE PLAN
1/16" = 1'-0"



2 LEVEL 04 CODE COMPLIANCE PLAN
1/16" = 1'-0"

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St. Louis, Missouri 63102
T: 314.241.6250
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William Tao & Associates, Inc
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

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Technology
3101 S. Hanley Rd, Suite 100
St. Louis, MO 63143
314.951.2228

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Environmental Graphics & Signage
7400 Pershing Ave
St. Louis, MO 63130
314.725.6616

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Architecture
9721 Litzinger Road
St. Louis, MO 63124
314.962.2560

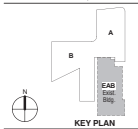
Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

This sheet provided by Cannon Design for clarification of "Rated Partition Scope" in fire stopping submittal
02-22-2017

No.	Description	Date
1	ADDENDUM 1-6	01 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP1)	15 JAN 2016



KEY PLAN

Drawing Title:

LEVEL 03 AND 04 CODE COMPLIANCE PLAN

Project No.: 04561.01 Checked by:

G0203

© Cannon Design 2015

These 'R-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.

/R2 LVL 1/BSIB 1 HR Rated 3 5/8" with INS /10/ /4/ /16/ /20/ 469 LF

/R6 LVL 1/BSIB 1 HR Rated 6" with INS /10/ /4/ /16/ /20/ 47 LF

/R1 LVL 1/BSB 1 HR Rated 3 5/8" /10/ /4/ /16/ /20/ 7 LF

These partitions (with a blue dashed line) should have been tagged as 'A2' partitions as they should be rated 1 hour.

/C2 LVL 1/BBSBB 2 HR Rated 3 5/8" with INS /10/ /4/ /16/ /20/ 107 LF

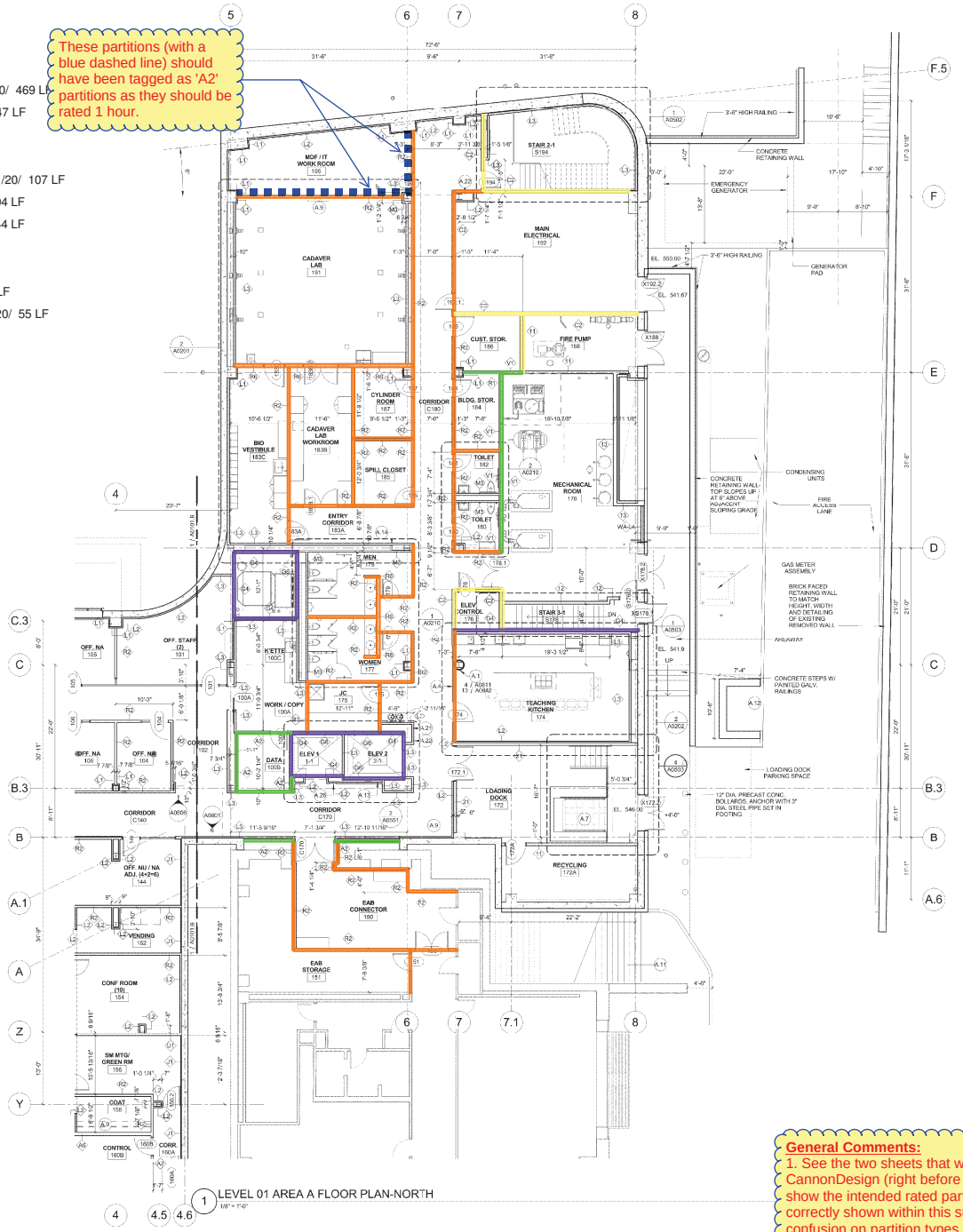
/G4 LVL 1/Shaftwall 2 HR Rated 4" with INS /10/ /4/ /20/ 94 LF

/G6 LVL 1/Shaftwall 2 HR Rated 4" with INS /10/ /4/ /20/ 44 LF

/V1 LVL 1/BBSBB 2 HR Rated 3 5/8" /10/ /4/ /16/ /20/ 36 LF

/A2 LVL 1/ BSIB 1 HR Rated 3 5/8" with INS /10/ /4/ /16/ /20/ 55 LF

These 'V-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.



1 LEVEL 01 AREA A FLOOR PLAN-NORTH
1/8" = 1'-0"

KEYED NOTE LEGEND - PLAN

A.1 092700 GRC COLUMN COVER TO 3" ABOVE CEILING - 20" DIA. TYP. SEE DETAIL 4/A0811 AND 1/A0842.
A.2 081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0603
A.3 081216 INTERIOR GLAZING SYSTEM IGS-2. SEE TYPICAL ELEVATION S AND S A0603
A.4 081216 INTERIOR GLAZING SYSTEM: IGS-3: REFER TO INTERIOR ELEVATIONS
A.5 088813 FIRE RATED GLAZING- 120 MIN. FIRE RATED GLAZING 10'-0" HIGH. BASIS OF DESIGN: VETROTECH CONTRAFLAMM STRUTTURA - WITH BUTT JOINTS AND PERIMETER FRAMING.
A.6 088813 FIRE RATED GLAZING AND FRAME - 120 MIN. FIRE RATED GLAZING 1'-8" HIGH X 5'-0" WIDE. BASIS OF DESIGN: VETROTECH CONTRAFLAMM WITH PERIMETER FRAMING.
A.7 113181 LOADING DOCK LIFT - STATIONARY - Size 8' DEEPW/ 14' PIT
A.8 ALTERNATING TREAD STAIRWAY UP TO ROOF HATCH
A.9 UNDERSLAB DRAINAGE SYSTEM PER OWNER'S GEOTECHNICAL CONSULTANT RECOMMENDATION TYPICAL ALL SLAB ON GRADE AREAS
A.11 NEW CONCRETE STEPS TO MATCH EXISTING REMOVED FOR CONSTRUCTION
A.12 553008 BRICK FACED CONCRETE DUMPSTER ENCLOSURE TOP OF WALL
A.13 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.14 MARKERBOARD SURFACE
A.15 WOOD SCREEN W/ SOLID LUMBER
A.17 VIDEO WALL - 24 55" SCREENS
A.18 LCD SCREEN LOCATION (OFCI)
A.19 AIR PLENUM - INSULATED PLENUM CONSTRUCTION BY DIVISION 23
A.20 122200 CURTAIN LOCATION
A.21 104313 AED CABINET LOCATION
A.22 10 8413 FEC WITH FIRE EXTINGUISHER
A.23 08 4425 SUILL SASH LOCATION: PROVIDE 1/4" TEMPERED CLEAR GLAZING AT INTERIOR FACE OF CURTAIN WALL MULLIONS FOR ACOUSTICAL SEPARATION.
A.24 6" X 8" FORMED CONCRETE TRENCH IN FLOOR W/ METAL PLATE COVER. PROVIDE BLIND SIDE WATERPROOFING
A.25 BUILT IN SALT WATER FISH TANK LOCATION. SIZE APPROX. 7'-6" X 2'-4" X 2'-6" HIGH. LOW IRON GLASS VIEW WINDOW ON CORRIDOR SIDE SLIDING DOOR ON LAB SIDE. FISH TANK EQUIPMENT BELOW TANK W/ CABINET DOOR ACCESS ON LAB SIDE. FINISHED INTERIOR FACE OF WALLS AND CEILING INSIDE CAVITY W/ WATER RESISTANT GYP BOARD AND EPOXY PAINT.
A.26 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.27 CONSTRUCT 2 HOUR RATED SEPARATION BETWEEN BOTTOM OF STAIR AND UTILITY PIPING CROSSING THIS AREA. USE HORIZ. GYP BD. ENCLOSURE ON SHEET A1002

General Comments:

1. See the two sheets that were added into this submittal by CannonDesign (right before Hilti's marked up plans) which show the intended rated partitions vs. the "rated" partitions not correctly shown within this submittal as it was submitted (due to confusion on partition types "R-" & "V-" which are not fire rated partitions - they are only sound rated).

2. Rated cmu walls did not appear to be accounted for within the Hilti marked up plans. CannonDesign assumes that these cmu walls need fire stopping too.

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CANNONDESIGN
1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

William Tao & Associates, Inc
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7660

David Mason & Associates, Inc
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd, Suite 100
St. Louis, MO 63143
314.991.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave
St. Louis, MO 63130
314.725.6616

KWA Architects
Architecture
9721 Litzinger Road
St. Louis, MO 63124
314.962.2560

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7727 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

No.	Description	Date
-	ISSUED FOR CONSTRUCTION (BP3)	15 MAY 2016

KEY PLAN

Drawing Title:

LEVEL 01 AREA A FLOOR PLAN

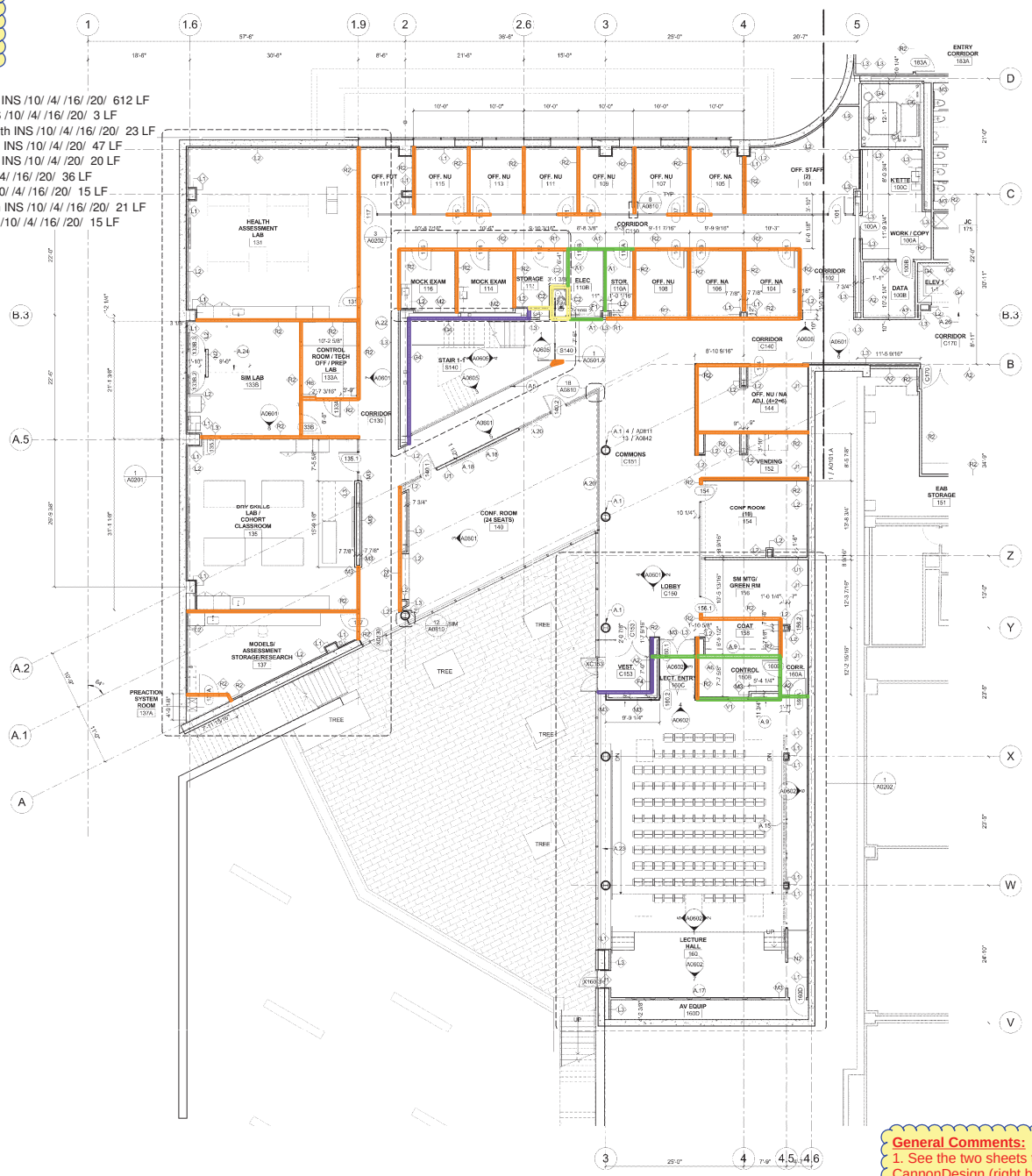
Project No.: 04561.01 Checked by:

A0101.A

These 'R-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.

/R2 LVL 1/BSIB 1 HR Rated 3 5/8" with INS /10/ /4/ /16/ /20/ 612 LF
/R6 LVL 1/BSIB 1 HR Rated 6" with INS /10/ /4/ /16/ /20/ 3 LF
/C2 LVL 1/BBSBB 2 HR Rated 3 5/8" with INS /10/ /4/ /16/ /20/ 23 LF
/G4 LVL 1/Shaftwall 2 HR Rated 4" with INS /10/ /4/ /20/ 47 LF
/F4 LVL 1/Shaftwall 1 HR Rated 4" with INS /10/ /4/ /20/ 20 LF
/A1 LVL 1/BSB 1 HR Rated 3 5/8" /10/ /4/ /16/ /20/ 36 LF
/V1 LVL 1/BBSBB 2 HR Rated 3 5/8" /10/ /4/ /16/ /20/ 15 LF
/A2 LVL 1/ BSIB 1 HR Rated 3 5/8" with INS /10/ /4/ /16/ /20/ 21 LF
/A6 LVL1/BSIB 1 HR Rated 6" with INS /10/ /4/ /16/ /20/ 15 LF

These 'V-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.



1 LEVEL 01 AREA B FLOOR PLAN-WEST
1/8" = 1'-0"

KEYED NOTE LEGEND - PLAN

A.1 092700 GRG COLUMN COVER TO 3" ABOVE CEILING - 20" DIA. TYP. SEE DETAIL 4/A0811 AND 13/A0842.
A.2 081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0603
A.3 081216 INTERIOR GLAZING SYSTEM IGS-2. SEE TYPICAL ELEVATION 5 AND 6 A0603
A.4 081216 INTERIOR GLAZING SYSTEM: IGS-3: REFER TO INTERIOR ELEVATIONS
A.5 088813 FIRE RATED GLAZING- 120 MIN. FIRE RATED GLAZING 10'-0" HIGH. BASIS OF DESIGN: VETROTECH CONTRAFLAMM STRUTTURA - WITH BUTT JOINTS AND PERIMETER FRAMING.
A.6 088813 FIRE RATED GLAZING AND FRAME- 120 MIN. FIRE RATED GLAZING 1'-0" HIGH X 5'-0" WIDE. BASIS OF DESIGN: VETROTECH CONTRAFLAMM WITH PERIMETER FRAMING.
A.7 113210 LOADING DOOR LIFT - STATIONARY - 6'-0" x 8'-0" CLEAR
A.8 ALTERNATING TREAD STAIRWAY UP TO ROOF HATCH
A.9 UNDERSLAB DRAINAGE SYSTEM PER OWNER'S GEOTECHNICAL CONSULTANT RECOMMENDATION TYPICAL ALL SLAB ON GRADE AREAS
A.11 NEW CONCRETE STEPS TO MATCH EXISTING REMOVED FOR CONSTRUCTION
A.12 552000 BRICK FACED CONCRETE DUMPSTER ENCLOSURE TOP OF WALL
A.13 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.14 MARKERBOARD SURFACE
A.15 WOOD SCREEN W/ SOLID LUMBER
A.17 VIDEO WALL - 24 55" SCREENS
A.18 LCD SCREEN LOCATION (OFOI)
A.19 AIR PLENUM - INSULATED PLENUM CONSTRUCTION BY DIVISION 23
A.20 122200 CURTAIN LOCATION
A.21 104313 AED CABINET LOCATION
A.22 10 4410 FEC WITH FIRE EXTINGUISHER
A.23 08 4423 SILL SASH LOCATION: PROVIDE 1/4" TEMPERED CLEAR GLAZING AT INTERIOR FACE OF CURTAIN WALL MULLIONS FOR ACOUSTICAL SEPARATION.
A.24 6" X 8" FORMED CONCRETE TRENCH IN FLOOR W/ METAL PLATE COVER. PROVIDE BLIND SIDE WATERPROOFING
A.25 BUILT IN SALT WATER FISH TANK LOCATION. SIZE APPROX. 7'-6" X 2'-4" X 2'-0" HIGH. - LOW IRON GLASS VIEW WINDOW ON CORRIDOR SIDE. SLIDING DOOR ON LAB SIDE. FISH TANK EQUIPMENT BELOW TANK W/ CABINET DOOR ACCESS ON LAB SIDE. FINISHED INTERIOR FACE OF WALLS AND CEILING INSIDE CAVITY W/ WATER RESISTANT GYP BOARD AND EPOXY PAINT.
A.26 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.27 CONSTRUCT 2 HOUR RATED SEPARATION BETWEEN BOTTOM OF STAIR AND UTILITY PIPING CROSSING THIS AREA. USE HORIZ. GYP BD. ENCLOSURE ON SHEET A1002

General Comments:

1. See the two sheets that were added into this submittal by CannonDesign (right before Hilti's marked up plans) which show the intended rated partitions vs. the "rated" partitions not correctly shown within this submittal as it was submitted (due to confusion on partition types "R-" & "V-" which are not fire rated partitions - they are only sound rated).

2. Rated cmu walls did not appear to be accounted for within the Hilti marked up plans. CannonDesign assumes that these cmu walls need fire stopping too.

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1100 Clark Avenue
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F: 314.241.2570

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MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
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St. Louis, MO 63110
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St. Louis, MO 63119
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Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

No.	Description	Date
-	ISSUED FOR CONSTRUCTION (BP3)	15 MAR 2016

KEY PLAN

Drawing Title:

LEVEL 01 AREA B FLOOR PLAN

Project No.: 04561.01 Checked by:

A0101.B

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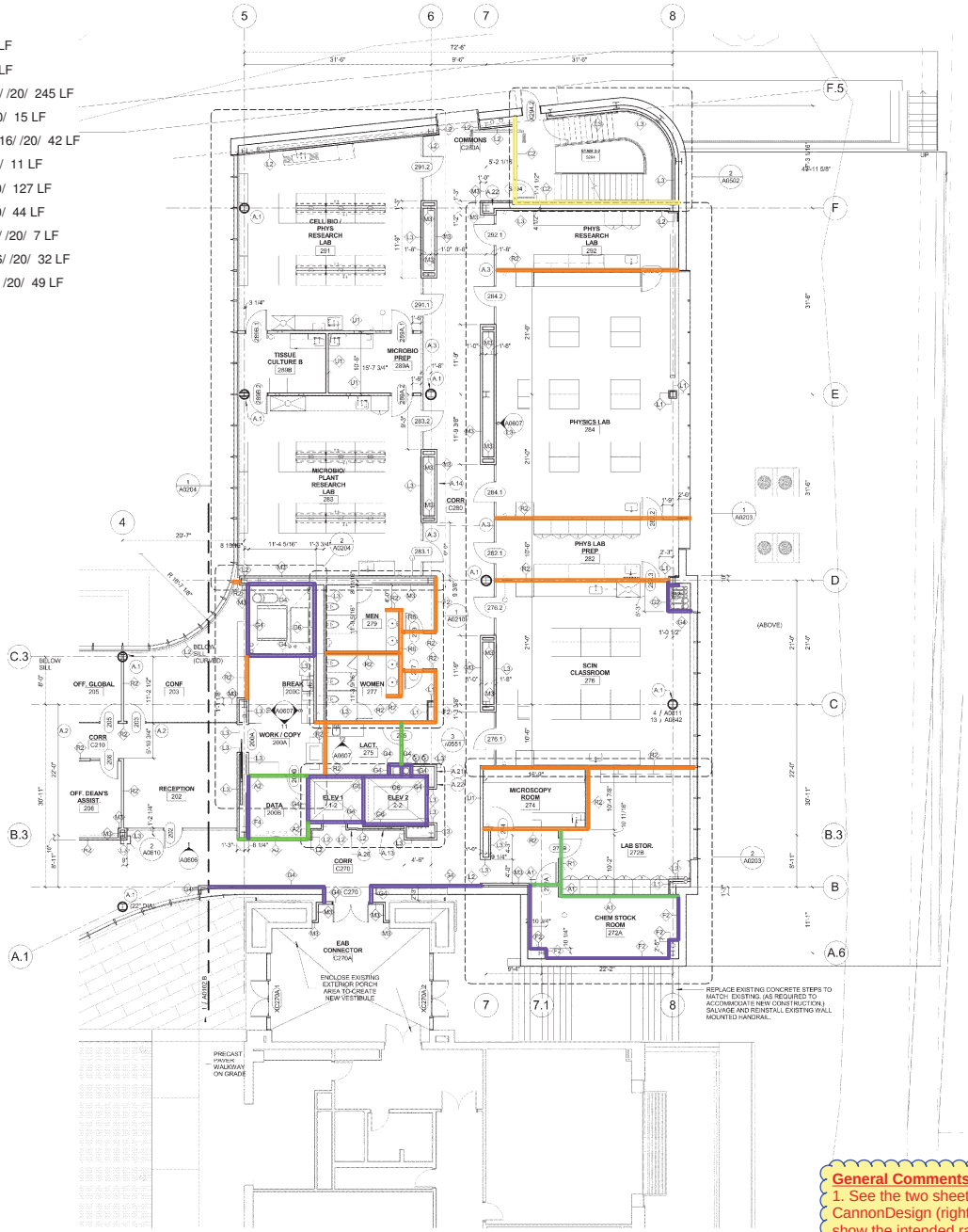
These 'R-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.

- /A1 LVL 2-3/BSB 1 HR Rated 3 5/8" /10/ /5/ /16/ /20/ 25 LF
- /R1 LVL 2-3/BSB 1 HR Rated 3 5/8" /10/ /5/ /16/ /20/ 11 LF
- /R2 LVL 2-3/BSIB 1 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 245 LF
- /R6 LVL 2-3/BSIB 1 HR Rated 6" with INS /10/ /5/ /16/ /20/ 15 LF
- /C2 LVL 2-3/BBSBB 2 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 42 LF
- /F4 LVL 2-3/Shaftwall 1 HR Rated 4" with INS /10/ /5/ /20/ 11 LF
- /G4 LVL 2-3/Shaftwall 2 HR Rated 4" with INS /10/ /5/ /20/ 127 LF
- /G6 LVL 2-3/Shaftwall 2 HR Rated 4" with INS /10/ /5/ /20/ 44 LF
- /G2 LVL 2-3/Shaftwall 2 HR Rated 2 1/2" with INS /10/ /5/ /20/ 7 LF
- /A2 LVL 2-3/ BSIB 1 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 32 LF
- /F2 LVL 2-3/Shaftwall 1 HR Rated 2 1/2" with INS /10/ /5/ /20/ 49 LF



1 LEVEL 02- AREA A FLOOR PLAN
1/8" = 1'-0"

KEYED NOTE LEGEND - PLAN

A.1	092700 GRG COLUMN COVER TO 3" ABOVE CEILING - 20" DIA, TYP. SEE DETAIL 4/A0811 AND 13/A0842
A.2	081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0603
A.3	081216 INTERIOR GLAZING SYSTEM IGS-2. SEE TYPICAL ELEVATION 5 AND 6 A0603
A.4	081216 INTERIOR GLAZING SYSTEM: IGS-3: REFER TO INTERIOR ELEVATIONS
A.5	088813 FIRE RATED GLAZING- 120 MIN. FIRE RATED GLAZING 10'-0" HIGH. BASIS OF DESIGN:- VETROTECH CONTRAFLAMM STRUTTURA - WITH BUTT JOINTS AND PERIMETER FRAMING.
A.6	088813 FIRE RATED GLAZING AND FRAME- 120 MIN. FIRE RATED GLAZING 1'-8" HIGH X 5'-0" WIDE. BASIS OF DESIGN: VETROTECH CONTRAFLAMM WITH PERIMETER FRAMING.
A.7	111319 LOADING DOCK LIFT - STATIONARY - 6'w x 8' DEEPW/ 14" PIT
A.8	ALTERNATING TREAD STAIRWAY UP TO ROOF HATCH
A.9	UNDERSLAB DRAINAGE SYSTEM PER OWNER'S GEOTECHNICAL CONSULTANT RECOMMENDATION TYPICAL ALL SLAB ON GRADE AREAS
A.11	NEW CONCRETE STEPS TO MATCH EXISTING REMOVED FOR CONSTRUCTION
A.12	553000 BRICK FACED CONCRETE DUMPSTER ENCLOSURE TOP OF WALL
A.13	LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.14	MARKERBOARD SURFACE
A.15	WOOD SCREEN W/ SOLID LUMBER
A.17	VIDEO WALL - 24 55" SCREENS
A.18	LCD SCREEN LOCATION (OFCI)
A.19	AIR PLENUM - INSULATED PLENUM CONSTRUCTION BY DIVISION 23
A.20	122200 CURTAIN LOCATION
A.21	104313 AED CABINET LOCATION
A.22	10 4413 FEC WITH FIRE EXTINGUISHER
A.23	08 4423 SUIL SASH LOCATION: PROVIDE 1/4" TEMPERED CLEAR GLAZING AT INTERIOR FACE OF CURTAIN WALL MULLIONS FOR ACOUSTICAL SEPARATION.
A.24	6" X 8" FORMED CONCRETE TRENCH IN FLOOR W/ METAL PLATE COVER. PROVIDE BLIND SIDE WATERPROOFING
A.25	BUILT IN SALT WATER FISH TANK LOCATION. SIZE APPROX. 7'-6" X 2'-4" X 2'-6" HIGH. - LOW IRON GLASS VIEW WINDOW ON CORRIDOR SIDE, SLIDING DOOR ON LAB SIDE. FISH TANK EQUIPMENT BELOW. TANK W/ CABINET DOOR ACCESS ON LAB SIDE. FINISHED INTERIOR FACE OF WALLS AND CEILING INSIDE CAVITY W/ WATER RESISTANT GYP BOARD AND EPOXY PAINT.
A.26	LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.27	CONSTRUCT 2 HOUR RATED SEPARATION BETWEEN BOTTOM OF STAIR AND UTILITY PIPING CROSSING THIS AREA. USE HORIZ. GYP BD. ENCLOSURE ON SHEET A1002

General Comments:

1. See the two sheets that were added into this submittal by CannonDesign (right before Hilti's marked up plans) which show the intended rated partitions vs. the "rated" partitions not correctly shown within this submittal as it was submitted (due to confusion on partition types "R-" & "V-" which are not fire rated partitions - they are only sound rated).

2. Rated cmu walls did not appear to be accounted for within the Hilti marked up plans. CannonDesign assumes that these cmu walls need fire stopping too.

Webster UNIVERSITY

Webster University
Interdisciplinary Science Building

CANNONDESIGN
1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6230
F: 314.241.2570

William Tao & Associates, Inc
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3191 S. Hanley Rd, Suite 100
St. Louis, MO 63143
314.991.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
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St. Louis, MO 63130
314.725.6816

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Architecture
8721 Litzsinger Road
St. Louis, MO 63124
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8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

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Landscape Architect
7727 Big Bend Blvd
St. Louis, MO 63119
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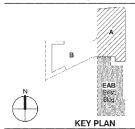

KEY PLAN

Drawing Title:

LEVEL 02 AREA A FLOOR PLAN

Project No.: 04561.01 Checked by:

A0102.A

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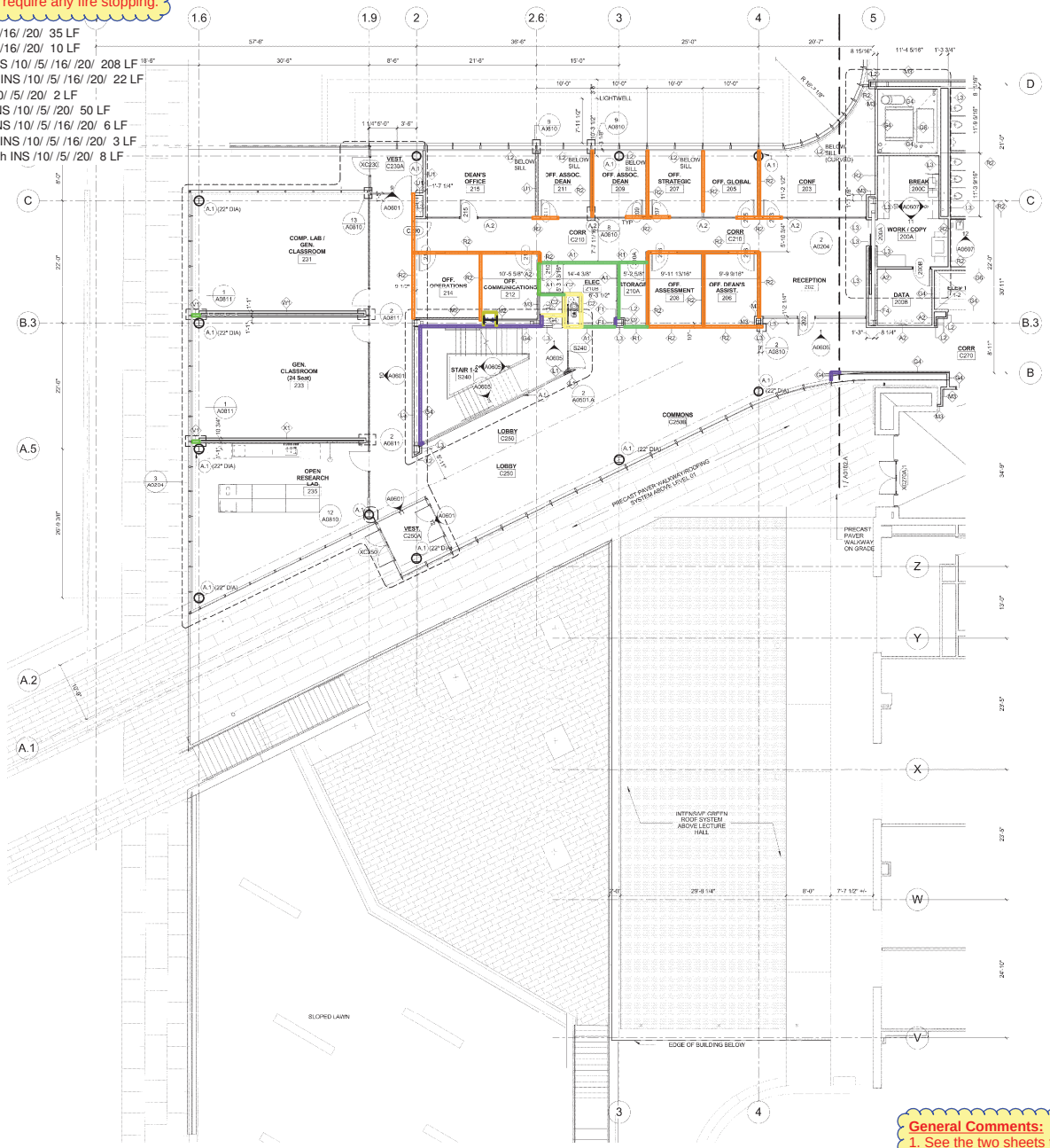
These 'R-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.

/A1 LVL 2-3/BSB 1 HR Rated 3 5/8" /10/ /5/ /16/ /20/ 35 LF
/R1 LVL 2-3/BSB 1 HR Rated 3 5/8" /10/ /5/ /16/ /20/ 10 LF
/R2 LVL 2-3/BSIB 1 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 208 LF
/C2 LVL 2-3/BBSBB 2 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 22 LF
/F1 LVL 2-3/ Shaftwall 1 HR Rated 2 1/2" /10/ /5/ /20/ 2 LF
/G4 LVL 2-3/Shaftwall 2 HR Rated 4" with INS /10/ /5/ /20/ 50 LF
/A2 LVL 2-3/ BSIB 1 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 6 LF
/V1 LVL 2-3/BBSBB 2 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 3 LF
/G2 LVL 2-3/Shaftwall 2 HR Rated 2 1/2" with INS /10/ /5/ /20/ 8 LF

These 'V-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.



1 A-FL02-96 - AREA B
1/8" = 1'-0"

KEYED NOTE LEGEND - PLAN

A.1 092700 GRG COLUMN COVER TO 3" ABOVE CEILING - 20" DIA, TYP. SEE DETAIL 4/A0811 AND 13/A0842
A.2 081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0603
A.3 081216 INTERIOR GLAZING SYSTEM IGS-2. SEE TYPICAL ELEVATION 5 AND 6 A0603
A.4 081216 INTERIOR GLAZING SYSTEM: IGS-3: REFER TO INTERIOR ELEVATIONS
A.5 088813 FIRE RATED GLAZING- 120 MIN. FIRE RATED GLAZING 10'-0" HIGH. BASIS OF DESIGN: VETROTECH CONTRAFLAMM STRUTTURA - WITH BUTT JOINTS AND PERIMETER FRAMING.
A.6 088813 FIRE RATED GLAZING AND FRAME- 120 MIN. FIRE RATED GLAZING 1'-8" HIGH X 8'-0" WIDE. BASIS OF DESIGN: VETROTECH CONTRAFLAMM WITH PERIMETER FRAMING.
A.7 111319 LOADING DOCK LIFT - STATIONARY - 6'w x 8' DEEPW/ 14" PIT
A.8 ALTERNATING TREAD STAIRWAY UP TO ROOF HATCH
A.9 UNDERSLAB DRAINAGE SYSTEM PER OWNER'S GEOTECHNICAL CONSULTANT RECOMMENDATION TYPICAL ALL SLAB ON GRADE AREAS
A.11 NEW CONCRETE STEPS TO MATCH EXISTING REMOVED FOR CONSTRUCTION
A.12 553309 BRICK FACED CONCRETE DUMPSTER ENCLOSURE TOP OF WALL
A.13 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.14 MARKERBOARD SURFACE
A.15 WOOD SCREEN W/ SOLID LUMBER
A.17 VIDEO WALL - 24 55" SCREENS
A.18 LCD SCREEN LOCATION (OFCI)
A.19 AIR PLENUM - INSULATED PLENUM CONSTRUCTION BY DIVISION 23
A.20 122200 CURTAIN LOCATION
A.21 104313 AED CABINET LOCATION
A.22 10 4413 FEC WITH FIRE EXTINGUISHER
A.23 08 4423 SUILL SASH LOCATION: PROVIDE 1/4" TEMPERED CLEAR GLAZING AT INTERIOR FACE OF CURTAIN WALL MULLIONS FOR ACOUSTICAL SEPARATION.
A.24 6" X 6" FORMED CONCRETE TRENCH IN FLOOR W/ METAL PLATE COVER. PROVIDE BLIND SIDE WATERPROOFING
A.25 BUILT IN SALT WATER FISH TANK LOCATION. SIZE APPROX. 7'-6" X 2'-4" X 2'-6" HIGH - LOW IRON GLASS VIEW WINDOW ON CORRIDOR SIDE, SLIDING DOOR ON LAB SIDE. FISH TANK EQUIPMENT BELOW. TANK W/ CABINET DOOR ACCESS ON LAB SIDE. FINISHED INTERIOR FACE OF WALLS AND CEILING INSIDE CAVITY W/ WATER RESISTANT GYP BOARD AND EPOXY PAINT.
A.26 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.27 CONSTRUCT 2 HOUR RATED SEPARATION BETWEEN BOTTOM OF STAIR AND UTILITY PIPING CROSSING THIS AREA. USE HORIZ. GYP BD. ENCLOSURE ON SHEET A1002

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Webster University
Interdisciplinary Science Building

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
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William Tao & Associates, Inc
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Technology
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314.991.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7456 Pershing Ave
St. Louis, MO 63130
314.725.6816

KWA Architects
Architecture
8721 Litzsinger Road
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Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

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Landscape Architect
7727 Big Bend Blvd
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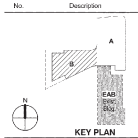

KEY PLAN

Drawing Title:

LEVEL 02 AREA B FLOOR PLAN

Project No.: 04561.01 Checked by:

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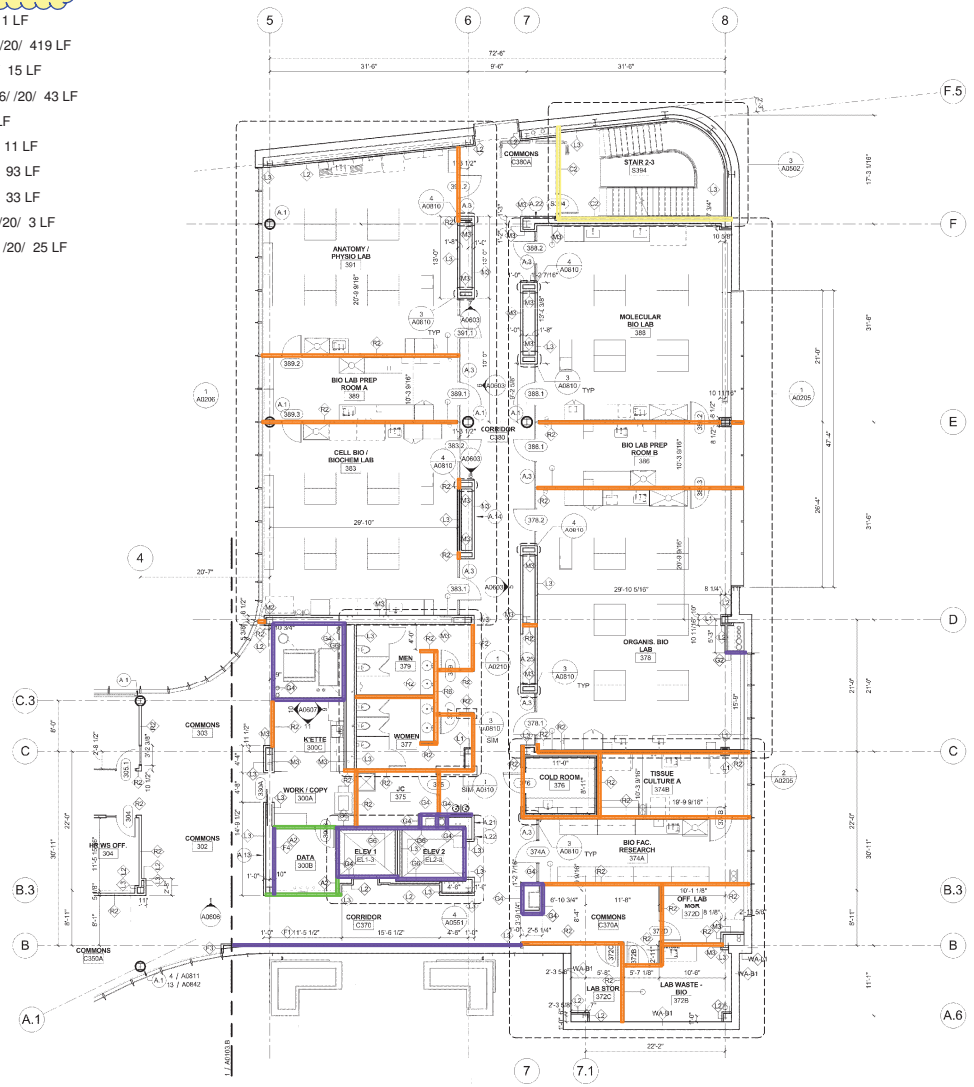
These 'R-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.

- /G6 LVL 1/Shaftwall 2 HR Rated 4" with INS /10/ /4/ /20/ 11 LF
- /R2 LVL 2-3/BSIB 1 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 419 LF
- /R6 LVL 2-3/BSIB 1 HR Rated 6" with INS /10/ /5/ /16/ /20/ 15 LF
- /C2 LVL 2-3/BBSBB 2 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 43 LF
- /F1 LVL 2-3/ Shaftwall 1 HR Rated 2 1/2" /10/ /5/ /20/ 46 LF
- /F4 LVL 2-3/Shaftwall 1 HR Rated 4" with INS /10/ /5/ /20/ 11 LF
- /G4 LVL 2-3/Shaftwall 2 HR Rated 4" with INS /10/ /5/ /20/ 93 LF
- /G6 LVL 2-3/Shaftwall 2 HR Rated 4" with INS /10/ /5/ /20/ 33 LF
- /G2 LVL 2-3/Shaftwall 2 HR Rated 2 1/2" with INS /10/ /5/ /20/ 3 LF
- /A2 LVL 2-3/ BSIB 1 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 25 LF



1 LEVEL 03 AREA A - NORTH FLOOR PLAN
1/8" = 1'-0"

KEYED NOTE LEGEND - PLAN

A.1 092700 GRG COLUMN COVER TO 3" ABOVE CEILING - 20" DIA, TYP. SEE DETAIL 4/A0811 AND 13/A0842
A.2 081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0603
A.3 081216 INTERIOR GLAZING SYSTEM IGS-2. SEE TYPICAL ELEVATION 5 AND 6 A0603
A.4 081216 INTERIOR GLAZING SYSTEM: IGS-3: REFER TO INTERIOR ELEVATIONS
A.5 088813 FIRE RATED GLAZING- 120 MIN. FIRE RATED GLAZING 10'-0" HIGH. BASIS OF DESIGN: VETROTECH CONTRAFLAMM STRUTTURA - WITH BUTT JOINTS AND PERIMETER FRAMING.
A.6 088813 FIRE RATED GLAZING AND FRAME- 120 MIN. FIRE RATED GLAZING 1'-8" HIGH X 5'-0" WIDE. BASIS OF DESIGN: VETROTECH CONTRAFLAMM WITH PERIMETER FRAMING.
A.7 111319 LOADING DOCK LIFT - STATIONARY - 6'w x 8' DEEPW/ 14" PIT
A.8 ALTERNATING TREAD STAIRWAY UP TO ROOF HATCH
A.9 UNDERSLAB DRAINAGE SYSTEM PER OWNER'S GEOTECHNICAL CONSULTANT RECOMMENDATION TYPICAL ALL SLAB ON GRADE AREAS
A.11 NEW CONCRETE STEPS TO MATCH EXISTING REMOVED FOR CONSTRUCTION
A.12 553301 BRICK FACED CONCRETE DUMPSTER ENCLOSURE TOP OF WALL
A.13 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.14 MARKERBOARD SURFACE
A.15 WOOD SCREEN W/ SOLID LUMBER
A.17 VIDEO WALL - 24 55" SCREENS
A.18 LCD SCREEN LOCATION (OFCI)
A.19 AIR PLENUM - INSULATED PLENUM CONSTRUCTION BY DIVISION 23
A.20 122200 CURTAIN LOCATION
A.21 104313 AED CABINET LOCATION
A.22 10 4413 FEC WITH FIRE EXTINGUISHER
A.23 08 4423 SUIL SASH LOCATION: PROVIDE 1/4" TEMPERED CLEAR GLAZING AT INTERIOR FACE OF CURTAIN WALL MULLIONS FOR ACOUSTICAL SEPARATION.
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A.25 BUILT IN SALT WATER FISH TANK LOCATION. SIZE APPROX. 7'-6" X 2'-4" X 2'-6" HIGH - LOW IRON GLASS VIEW WINDOW ON CORRIDOR SIDE, SLIDING DOOR ON LAB SIDE. FISH TANK EQUIPMENT BELOW TANK W/ CABINET DOOR ACCESS ON LAB SIDE. FINISHED INTERIOR FACE OF WALLS AND CEILING INSIDE CAVITY W/ WATER RESISTANT GYP BOARD AND EPOXY PAINT.
A.26 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.27 CONSTRUCT 2 HOUR RATED SEPARATION BETWEEN BOTTOM OF STAIR AND UTILITY PIPING CROSSING THIS AREA. USE HORIZ. GYP BD. ENCLOSURE ON SHEET A1002

General Comments:

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MEP/FP Engineer
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Faith Group
Technology
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St. Louis, MO 63143
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Kuhlmann Leavitt, Inc.
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Architecture
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Interior Designer
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SWT Design
Landscape Architect
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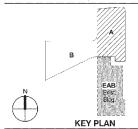

KEY PLAN

Drawing Title:

LEVEL 03 AREA A FLOOR PLAN

Project No.: 04561.01 Checked by:

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These 'R-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.

/A1 LVL 2-3/BSB 1 HR Rated 3 5/8" /10/ /5/ /16/ /20/ 34 LF
/R1 LVL 2-3/BSB 1 HR Rated 3 5/8" /10/ /5/ /16/ /20/ 12 LF
/R2 LVL 2-3/BSIB 1 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 698 LF
/C2 LVL 2-3/BBSBB 2 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 39 LF
/F1 LVL 2-3/ Shaftwall 1 HR Rated 2 1/2" /10/ /5/ /20/ 6 LF
/G4 LVL 2-3/Shaftwall 2 HR Rated 4" with INS /10/ /5/ /20/ 40 LF
/G2 LVL 2-3/Shaftwall 2 HR Rated 2 1/2" with INS /10/ /5/ /20/ 11 LF

1 A-FL03-96 - AREA B
1/8" = 1'-0"

KEYED NOTE LEGEND - PLAN

A.1 092700 GRG COLUMN COVER TO 3" ABOVE CEILING - 20" DIA, TYP. SEE DETAIL 4/A0811 AND 13/A0842
A.2 081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0603
A.3 081216 INTERIOR GLAZING SYSTEM IGS-2. SEE TYPICAL ELEVATION 5 AND 6 A0603
A.4 081216 INTERIOR GLAZING SYSTEM: IGS-3: REFER TO INTERIOR ELEVATIONS
A.5 088813 FIRE RATED GLAZING- 120 MIN. FIRE RATED GLAZING 10'-0" HIGH. BASIS OF DESIGN:- VETROTECH CONTRAFLAMM STRUTTURA - WITH BUTT JOINTS AND PERIMETER FRAMING.
A.6 088813 FIRE RATED GLAZING AND FRAME- 120 MIN. FIRE RATED GLAZING 1'-8" HIGH X 5'-0" WIDE. BASIS OF DESIGN: VETROTECH CONTRAFLAMM WITH PERIMETER FRAMING.
A.7 111319 LOADING DOCK LIFT - STATIONARY - 6'w x 8' DEEPW/ 14" PIT
A.8 ALTERNATING TREAD STAIRWAY UP TO ROOF HATCH
A.9 UNDERSLAB DRAINAGE SYSTEM PER OWNER'S GEOTECHNICAL CONSULTANT RECOMMENDATION TYPICAL ALL SLAB ON GRADE AREAS
A.11 NEW CONCRETE STEPS TO MATCH EXISTING REMOVED FOR CONSTRUCTION
A.12 553305 BRICK FACED CONCRETE DUMPSTER ENCLOSURE TOP OF WALL
A.13 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.14 MARKERBOARD SURFACE
A.15 WOOD SCREEN W/ SOLID LUMBER
A.17 VIDEO WALL - 24 55" SCREENS
A.18 LCD SCREEN LOCATION (OFCI)
A.19 AIR PLENUM - INSULATED PLENUM CONSTRUCTION BY DIVISION 23
A.20 122200 CURTAIN LOCATION
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A.27 CONSTRUCT 2 HOUR RATED SEPARATION BETWEEN BOTTOM OF STAIR AND UTILITY PIPING CROSSING THIS AREA. USE HORIZ. GYP BD. ENCLOSURE ON SHEET A1002

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CANNONDESIGN

1100 Clark Avenue
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F: 314.241.2570

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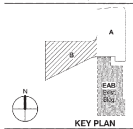

KEY PLAN

Drawing Title:

LEVEL 03 AREA B FLOOR PLAN

Project No.: 04561.01 Checked by:

A0103.B

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/A2 LVL 2-3/BSB 1 HR Rated 3 5/8" /10/ /5/ /16/ /20/ 34 LF
/R1 LVL 2-3/BSB 1 HR Rated 3 5/8" /10/ /5/ /16/ /20/ 12 LF
/R2 LVL 2-3/BSB 1 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 698 LF
/C2 LVL 2-3/BSB 2 HR Rated 3 5/8" with INS /10/ /5/ /16/ /20/ 39 LF
/F1 LVL 2-3/ Shaftwall 2 HR Rated 2 1/2" /10/ /5/ /20/ 6 LF
/G4 LVL 2-3/Shaftwall 2 HR Rated 4" with INS /10/ /5/ /20/ 40 LF
/G2 LVL 2-3/Shaftwall 2 HR Rated 2 1/2" with INS /10/ /5/ /20/ 11 LF

1 A-FL03-96 - AREA B
1/8" = 1'-0"

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A.3 081216 INTERIOR GLAZING SYSTEM IGS-2. SEE TYPICAL ELEVATION 5 AND 6 A0603
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A.14 MARKERBOARD SURFACE
A.15 WOOD SCREEN W/ SOLID LUMBER
A.17 VIDEO WALL - 24 55" SCREENS
A.18 LCD SCREEN LOCATION (OFCI)
A.19 AIR PLENUM - INSULATED PLENUM CONSTRUCTION BY DIVISION 23
A.20 122200 CURTAIN LOCATION
A.21 104313 AED CABINET LOCATION
A.22 10 4413 FEC WITH FIRE EXTINGUISHER
A.23 08 4423 SUIL SASH LOCATION: PROVIDE 1/4" TEMPERED CLEAR GLAZING AT INTERIOR FACE OF CURTAIN WALL MULLIONS FOR ACOUSTICAL SEPARATION.
A.24 6" X 6" FORMED CONCRETE TRENCH IN FLOOR W/ METAL PLATE COVER. PROVIDE BLIND SIDE WATERPROOFING
A.25 BUILT IN SALT WATER FISH TANK LOCATION. SIZE APPROX. 7'-6" X 2'-4" X 2'-6" HIGH. - LOW IRON GLASS VIEW WINDOW ON CORRIDOR SIDE. SLIDING DOOR ON LAB SIDE. FISH TANK EQUIPMENT BELOW. TANK W/ CABINET DOOR ACCESS ON LAB SIDE. FINISHED INTERIOR FACE OF WALLS AND CEILING INSIDE CAVITY W/ WATER RESISTANT GYP BOARD AND EPOXY PAINT.
A.26 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.27 CONSTRUCT 2 HOUR RATED SEPARATION BETWEEN BOTTOM OF STAIR AND UTILITY PIPING CROSSING THIS AREA. USE HORIZ. GYP BD. ENCLOSURE ON SHEET A1002

This sheet is exactly the same as the previous sheet.

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Webster UNIVERSITY

Webster University
Interdisciplinary Science Building

CANNONDESIGN
1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6230
F: 314.241.2570

William Tao & Associates, Inc
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3191 S. Hanley Rd, Suite 100
St. Louis, MO 63143
314.991.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7456 Pershing Ave
St. Louis, MO 63130
314.725.6816

KWA Architects
Architecture
8721 Ladue Road
St. Louis, MO 63124
314.962.2660

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7727 Big Bend Blvd
St. Louis, MO 63119
314.644.3700

Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

No.	Description	Date
-	ISSUED FOR CONSTRUCTION (BP3)	15 MAR 2016

KEY PLAN

Drawing Title:

LEVEL 03 AREA B FLOOR PLAN

Project No.: 04561.01 Checked by:

A0103.B

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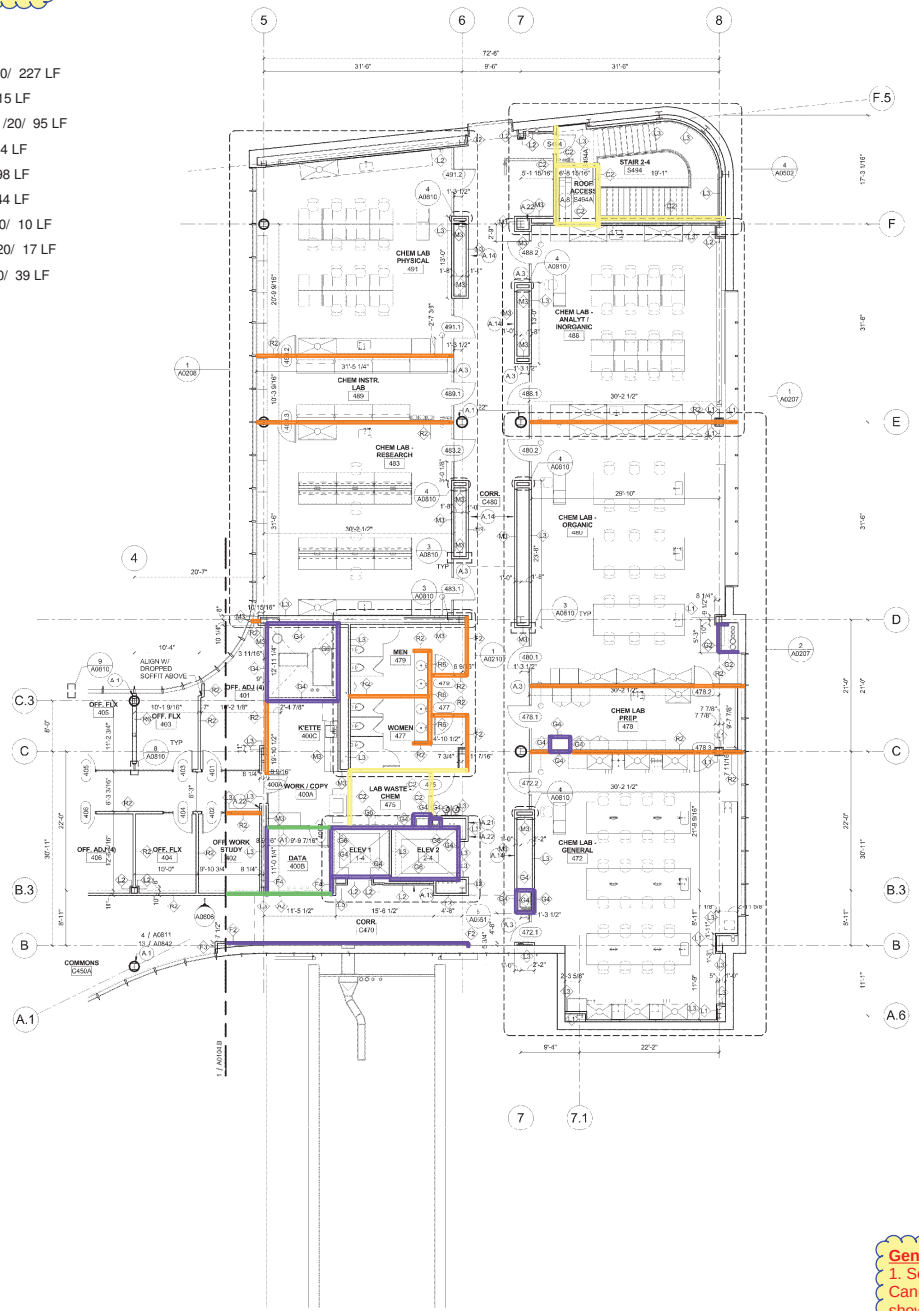
These 'R-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.

- /A1 LVL 4/BSB 1 HR Rated 3 5/8" /10/ /6/ /16/ /20/ 10 LF
- /R2 LVL 4/BSIB 1 HR Rated 3 5/8" with INS /10/ /6/ /16/ /20/ 227 LF
- /R6 LVL 4/BSIB 1 HR Rated 6" with INS /10/ /6/ /16/ /20/ 15 LF
- /C2 LVL 4/BBSBB 2 HR Rated 3 5/8" with INS /10/ /6/ /16/ /20/ 95 LF
- /F4 LVL 4/Shaftwall 1 HR Rated 4" with INS /10/ /6/ /20/ 14 LF
- /G4 LVL 4/Shaftwall 2 HR Rated 4" with INS /10/ /6/ /20/ 98 LF
- /G6 LVL 4/Shaftwall 2 HR Rated 4" with INS /10/ /6/ /20/ 44 LF
- /G2 LVL 4/Shaftwall 2 HR Rated 2 1/2" with INS /10/ /6/ /20/ 10 LF
- /A2 LVL 4/ BSIB 1 HR Rated 3 5/8" with INS /10/ /6/ /16/ /20/ 17 LF
- /F2 LVL 4/Shaftwall 1 HR Rated 2 1/2" with INS /10/ /6/ /20/ 39 LF



1 A-FL04-96 - AREA A
1/8" = 1'-0"

KEYED NOTE LEGEND - PLAN

A.1	092700 GRG COLUMN COVER TO 3" ABOVE CEILING - 20" DIA, TYP. SEE DETAIL 4/A0811 AND 13/A0842
A.2	081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0603
A.3	081216 INTERIOR GLAZING SYSTEM IGS-2. SEE TYPICAL ELEVATION 5 AND 6 A0603
A.4	081216 INTERIOR GLAZING SYSTEM: IGS-3: REFER TO INTERIOR ELEVATIONS
A.5	088813 FIRE RATED GLAZING- 120 MIN. FIRE RATED GLAZING 10'-0" HIGH. BASIS OF DESIGN:- VETROTECH CONTRAFLAMM STRUTTURA - WITH BUTT JOINTS AND PERIMETER FRAMING.
A.6	088813 FIRE RATED GLAZING AND FRAME- 120 MIN. FIRE RATED GLAZING 1'-8" HIGH X 5'-0" WIDE. BASIS OF DESIGN: VETROTECH CONTRAFLAMM WITH PERIMETER FRAMING.
A.7	111319 LOADING DOCK LIFT - STATIONARY - 6'w x 8' DEEPW/ 14" PIT
A.8	ALTERNATING TREAD STAIRWAY UP TO ROOF HATCH
A.9	UNDERSLAB DRAINAGE SYSTEM PER OWNER'S GEOTECHNICAL CONSULTANT RECOMMENDATION TYPICAL ALL SLAB ON GRADE AREAS
A.11	NEW CONCRETE STEPS TO MATCH EXISTING REMOVED FOR CONSTRUCTION
A.12	553000 BRICK FACED CONCRETE DUMPSTER ENCLOSURE TOP OF WALL
A.13	LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.14	MARKERBOARD SURFACE
A.15	WOOD SCREEN W/ SOLID LUMBER
A.17	VIDEO WALL - 24 55" SCREENS
A.18	LCD SCREEN LOCATION (OFCI)
A.19	AIR PLENUM - INSULATED PLENUM CONSTRUCTION BY DIVISION 23
A.20	122200 CURTAIN LOCATION
A.21	104313 AED CABINET LOCATION
A.22	10 4413 FEC WITH FIRE EXTINGUISHER
A.23	08 4423 SUIL SASH LOCATION: PROVIDE 1/4" TEMPERED CLEAR GLAZING AT INTERIOR FACE OF CURTAIN WALL MULLIONS FOR ACOUSTICAL SEPARATION.
A.24	6" X 6" FORMED CONCRETE TRENCH IN FLOOR W/ METAL PLATE COVER. PROVIDE BLIND SIDE WATERPROOFING
A.25	BUILT IN SALT WATER FISH TANK LOCATION. SIZE APPROX. 7'-6" X 2'-4" X 2'-6" HIGH. - LOW IRON GLASS VIEW WINDOW ON CORRIDOR SIDE, SLIDING DOOR ON LAB SIDE. FISH TANK EQUIPMENT BELOW TANK W/ CABINET DOOR ACCESS ON LAB SIDE. FINISHED INTERIOR FACE OF WALLS AND CEILING INSIDE CAVITY W/ WATER RESISTANT GYP BOARD AND EPOXY PAINT.
A.26	LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.27	CONSTRUCT 2 HOUR RATED SEPARATION BETWEEN BOTTOM OF STAIR AND UTILITY PIPING CROSSING THIS AREA. USE HORIZ. GYP BD. ENCLOSURE ON SHEET A1002

General Comments:

1. See the two sheets that were added into this submittal by CannonDesign (right before Hilti's marked up plans) which show the intended rated partitions vs. the "rated" partitions not correctly shown within this submittal as it was submitted (due to confusion on partition types "R-" & "V-" which are not fire rated partitions - they are only sound rated).

2. Rated cmu walls did not appear to be accounted for within the Hilti marked up plans. CannonDesign assumes that these cmu walls need fire stopping too.

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Webster University
Interdisciplinary Science Building

CANNONDESIGN
1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6230
F: 314.241.2570

William Tao & Associates, Inc
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3191 S. Hanley Rd, Suite 100
St. Louis, MO 63143
314.991.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave
St. Louis, MO 63130
314.725.6816

KWA Architects
Architecture
8721 Litzsinger Road
St. Louis, MO 63124
314.962.2660

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.962.0070

SWT Design
Landscape Architect
7727 Big Bend Blvd
St. Louis, MO 63119
314.644.3700

Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

No.	Description	Date
-	ISSUED FOR CONSTRUCTION (BP3)	15 MAR 2016

KEY PLAN

Drawing Title:

LEVEL 04 AREA A FLOOR PLAN

Project No.: 04561.01 Checked by:

A0104.A

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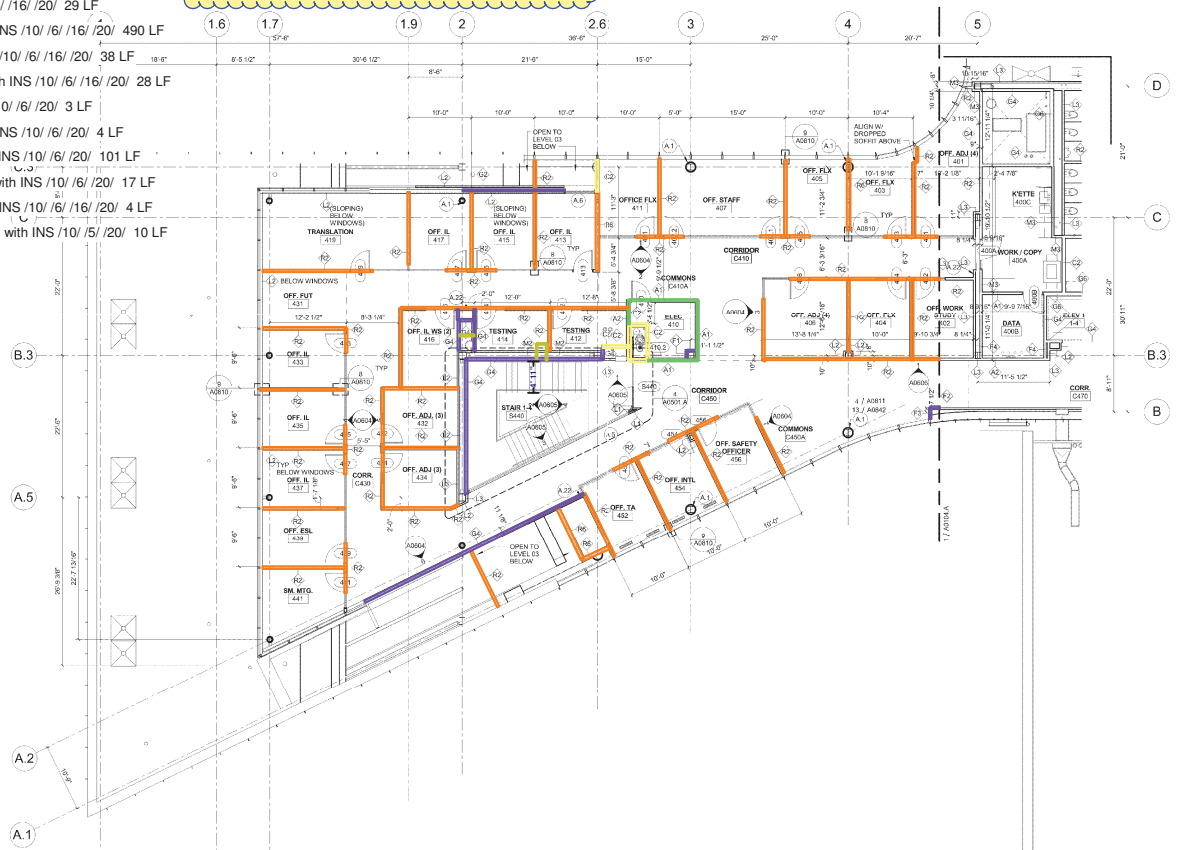
These 'R-' partition types are not fire rated partitions (per sheet A1001) and do not require any fire stopping.

- /A1 LVL 4/BSB 1 HR Rated 3 5/8" /10/ /6/ /16/ /20/ 29 LF
- /R2 LVL 4/BSIB 1 HR Rated 3 5/8" with INS /10/ /6/ /16/ /20/ 490 LF
- /R6 LVL 4/BSIB 1 HR Rated 6" with INS /10/ /6/ /16/ /20/ 38 LF
- /C2 LVL 4/BBSBB 2 HR Rated 3 5/8" with INS /10/ /6/ /16/ /20/ 28 LF
- /F1 LVL 4/Shaftwall 1 HR Rated 2 1/2" /10/ /6/ /20/ 3 LF
- /F4 LVL 4/Shaftwall 1 HR Rated 4" with INS /10/ /6/ /20/ 4 LF
- /G4 LVL 4/Shaftwall 2 HR Rated 4" with INS /10/ /6/ /20/ 101 LF
- /G2 LVL 4/Shaftwall 2 HR Rated 2 1/2" with INS /10/ /6/ /20/ 17 LF
- /A2 LVL 4/ BSIB 1 HR Rated 3 5/8" with INS /10/ /6/ /16/ /20/ 4 LF
- /G2 LVL 2-3/Shaftwall 2 HR Rated 2 1/2" with INS /10/ /5/ /20/ 10 LF



1 LEVEL 04- AREA B - WEST FLOOR PLAN
1/8" = 1'-0"

KEYED NOTE LEGEND - PLAN

A.1 092700 GRG COLUMN COVER TO 3" ABOVE CEILING - 20" DIA, TYP. SEE DETAIL 4/A0811 AND 13/A0842
A.2 081216 INTERIOR GLAZING SYSTEM: IGS-1: REFER TO TYPICAL INT. ELEVATIONS 1 AND 2 ON SHEET A0603
A.3 081216 INTERIOR GLAZING SYSTEM IGS-2. SEE TYPICAL ELEVATION 5 AND 6 A0603
A.4 081216 INTERIOR GLAZING SYSTEM: IGS-3: REFER TO INTERIOR ELEVATIONS
A.5 088813 FIRE RATED GLAZING- 120 MIN. FIRE RATED GLAZING 10'-0" HIGH. BASIS OF DESIGN: VETROTECH CONTRAFLAMM STRUTTURA - WITH BUTT JOINTS AND PERIMETER FRAMING.
A.6 088813 FIRE RATED GLAZING AND FRAME- 120 MIN. FIRE RATED GLAZING 1'-8" HIGH X 5'-0" WIDE. BASIS OF DESIGN: VETROTECH CONTRAFLAMM WITH PERIMETER FRAMING.
A.7 111319 LOADING DOCK LIFT - STATIONARY - 6'w x 8' DEEPW/ 14" PIT
A.8 ALTERNATING TREAD STAIRWAY UP TO ROOF HATCH
A.9 UNDERSLAB DRAINAGE SYSTEM PER OWNER'S GEOTECHNICAL CONSULTANT RECOMMENDATION TYPICAL ALL SLAB ON GRADE AREAS
A.11 NEW CONCRETE STEPS TO MATCH EXISTING REMOVED FOR CONSTRUCTION
A.12 553301 BRICK FACED CONCRETE DUMPSTER ENCLOSURE TOP OF WALL
A.13 LCD SIGNAGE SCREEN IN WALL RECESS (OFCI)
A.14 MARKERBOARD SURFACE
A.15 WOOD SCREEN W/ SOLID LUMBER
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1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6230
F: 314.241.2570

William Tao & Associates, Inc
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc
Structural & Civil Engineer
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St. Louis, MO 63110
314.534.1053

Faith Group
Technology
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St. Louis, MO 63143
314.991.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave
St. Louis, MO 63130
314.725.6816

KWA Architects
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8721 Litzsinger Road
St. Louis, MO 63124
314.962.2660

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Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7727 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

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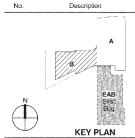
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

No.	Description	Date
-	ISSUED FOR CONSTRUCTION (BP3)	15 MAR 2016



KEY PLAN

Drawing Title:

LEVEL 04 AREA B FLOOR PLAN

Project No.: 04561.01 Checked by:

A0104.B

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CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

DEVIN D GATES
SUBMITTED BY

078413-001
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

078413
SPECIFICATION SECTION / PARAGRAPH

MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

CRITICAL

ITEM BEING SUBMITTED (check only one)

- ○ Shop Drawings
- ○ Samples (_____ copies)
- ○ LEED Submittal
- ○ Certification / Qualifications
- ○ Record Documents
- ○ Product Data
- ○ Coordination Drawing
- ○ Calculations
- ○ Schedules
- ○ O&M Manuals
- ○ Other _____

ITEM BEING SUBMITTED FOR (check only one)

- ◉ Action
- ○ Information Only
- ○ Record

REMARKS OR DEVIATIONS

Resubmitted with installer qualifications. Products have been selected by qualified installer. LEED documentation provided. Entire submittal package provided again as this is what was "selected" by installer.

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

DEVIN D GATES — 02/12/17
REVIEWED BY — DATE

To be completed by Reviewer

07 8413-001 REV002
CANNON DESIGN SUBMITTAL NUMBER

2/13/17
RECEIVED DATE

- ○ A. No Exceptions Taken
  No further review of submittal is required.
- ◉ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ○ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ○ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ○ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ○ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ○ See attached sheet(s) for additional comments

See markups.

Provide Identification per specification 078413, 3.4.

Kelvin Patel — Digitally signed by Kelvin Patel DN: C=US, E=kpatel@cannondesign.com, O=Cannon Design, OU=Architect, CN=Kelvin Patel Date: 2017.02.22 18:27:43-06'00' — 2/22/17
REVIEWED BY — DATE