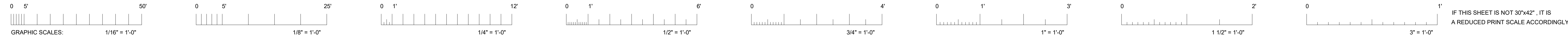


150 3RD STREET, SAN RAFAEL, CA 94901

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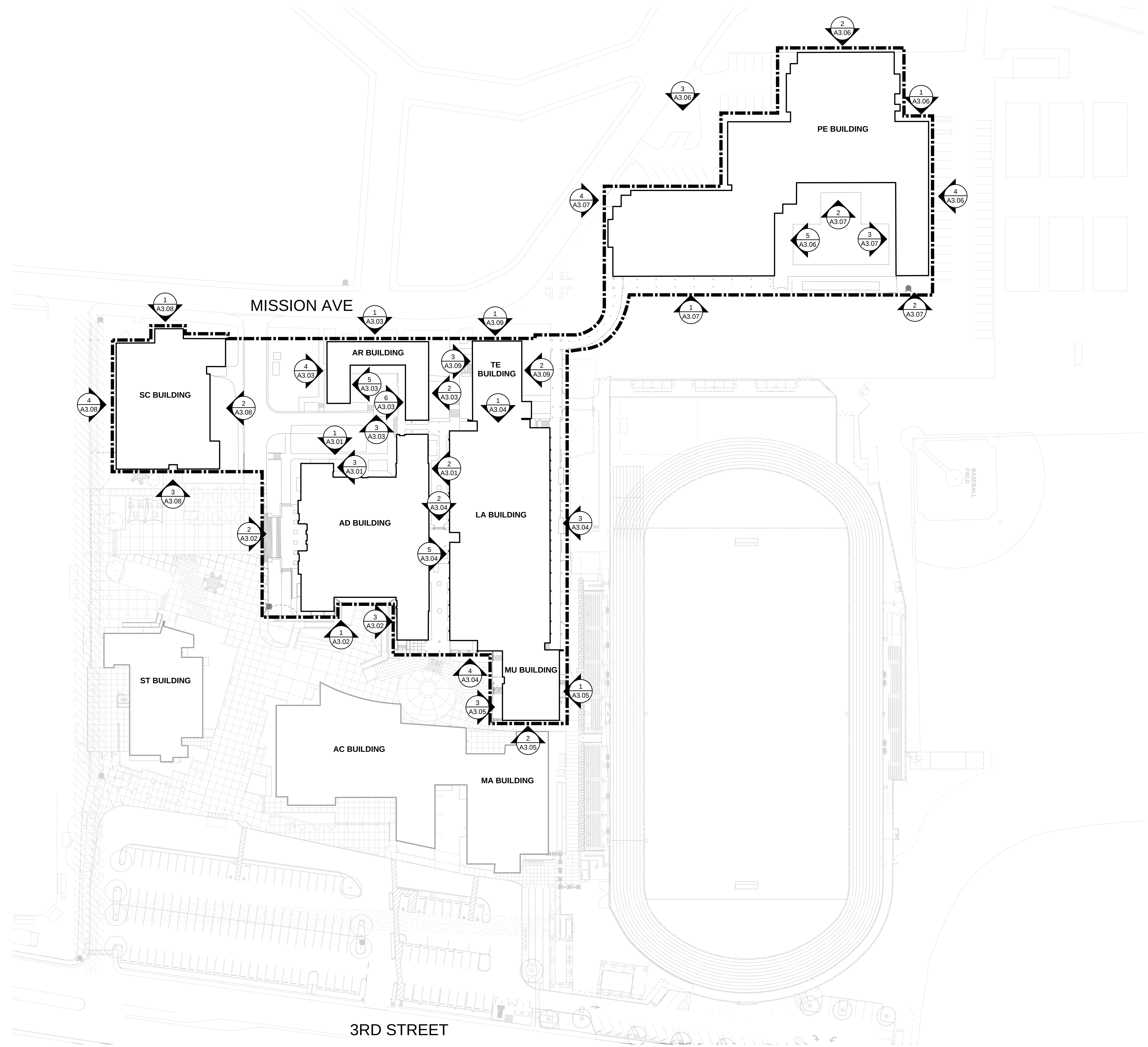
GENERAL NOTES

LEGEND

--- LIMIT OF WORK



Revisions	Delta	Date	Revisions	By



1 SITE PLAN
1" = 50'-0"

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Architect/Engineer Of Record: _____



HY Architects Project number: 5323

Facility
SAN RAFAEL HIGH SCHOOL
150 3RD STREET, SAN RAFAEL, CA 94901

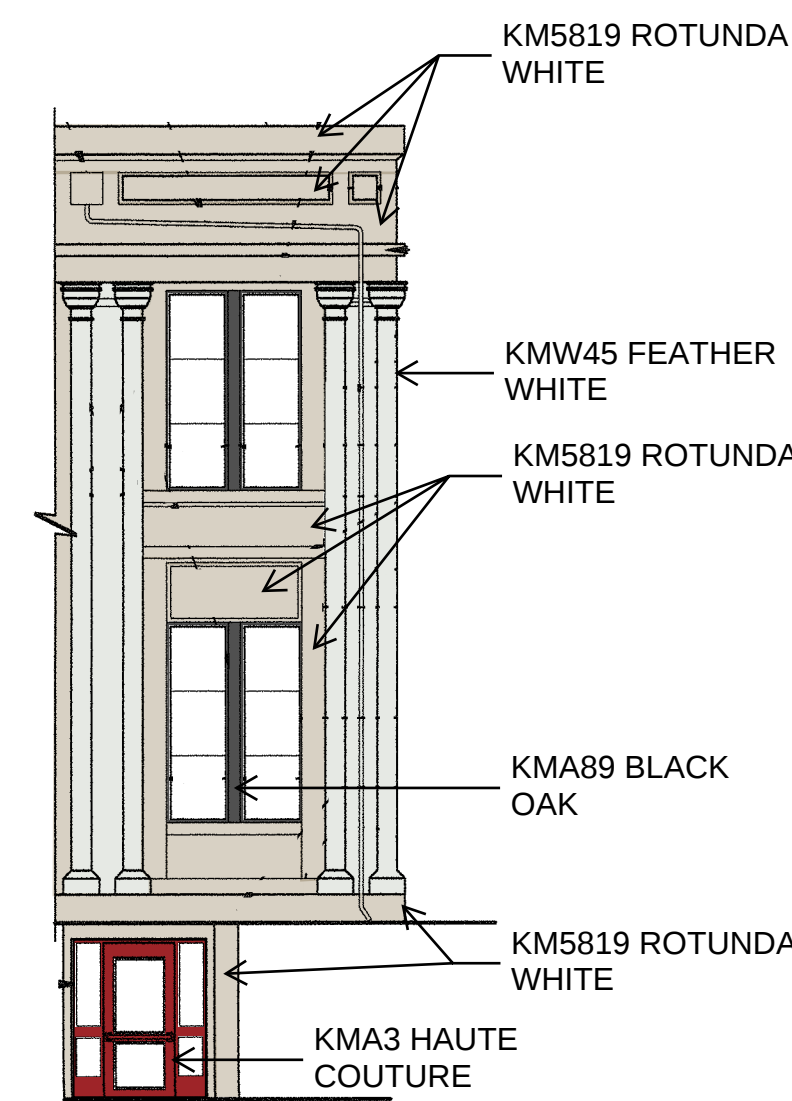
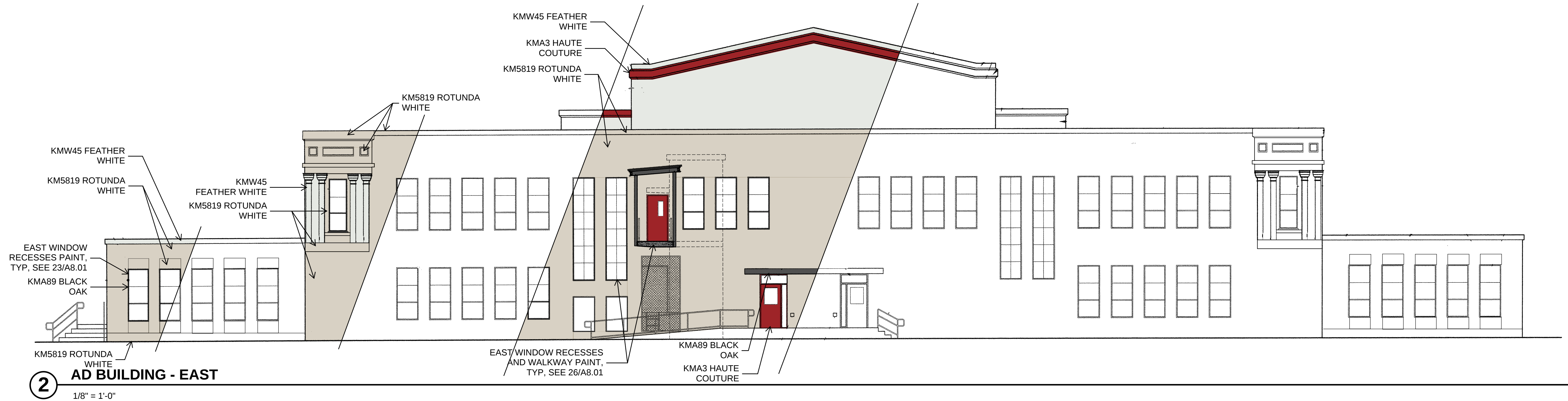
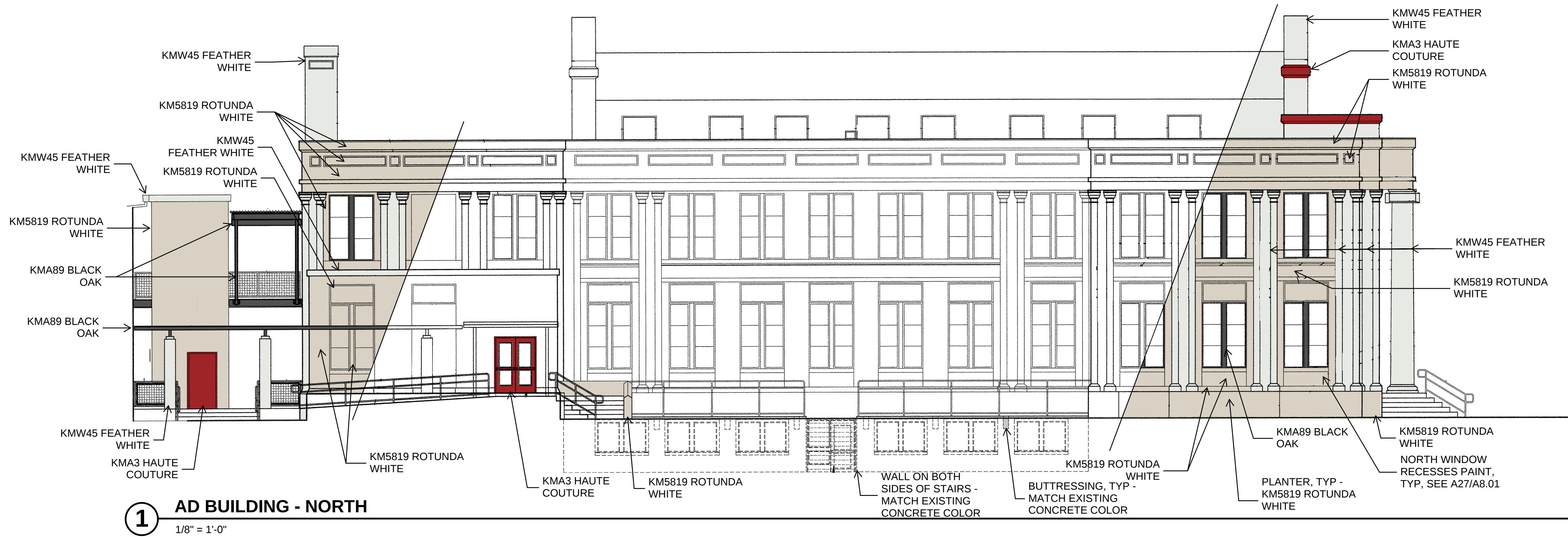
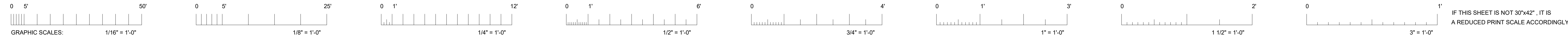
Project
SRHS PAINTING PROJECT
BID SET

Sheet Title
SITE PLAN

Client Project Number: Client Proj. #

Scale: 1" = 50'-0"
Drawn By: EM
Checked By: LP
Issue Date: 4/5/2022
Revit Version: 2019

A1.01



GENERAL NOTES

1. TYP AT ALL BUILDINGS ON CAMPUS WHERE PLANTS OCCUR ADJACENT TO WALL; PROTECT PLANTS TO GREATEST EXTENT POSSIBLE AND PAINT ENTIRE WALL SURFACE BEHIND THE PLANTS
2. PAINT ALL METAL BEAMS, METAL AND CEMENT PLASTER COLUMNS SUPPORTING CANOPIES AND OTHER FREESTANDING STRUCTURES THROUGHOUT ENTIRE CAMPUS, SEE ALL ELEVATIONS AND A8.01
3. PAINT ALL HANDRAILS AND METAL GRATES TYP THROUGHOUT ENTIRE CAMPUS, SEE A8.01 AND A8.02
4. REMOVE FADED NO SMOKING SIGNS WHERE OCCURS THROUGHOUT CAMPUS PRIOR TO PAINTING
5. ALL COVERED WALKWAYS AND CANOPIES SHALL BE PAINTED ON ALL SIDES INCLUDING THE TOP AND BOTTOM, SEE A8.01
6. TYPICAL CONDITIONS AND ADDITIONAL PAINTING DETAILS FOUND ON SHEET A8.01
7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

TYPICAL PAINT COLOR NOTES

1. PAINT ALL WINDOW FRAMES KMA89 BLACK OAK
2. PAINT ALL RAILINGS AND SCREENS KMA89 BLACK OAK, SEE 2/A8.01
3. PAINT ALL CONCRETE COLUMNS KMW45 FEATHER WHITE
4. PAINT ALL STEEL COLUMNS KMA89 BLACK OAK
5. PAINT ALL PLANTERS AGAINST AD BUILDING WALL TO KM5819 ROTUNDA WHITE, SEE 30/A8.01
6. PAINT ALL DOWNSPOUTS, PIPES, AND METAL SHROUDS TO MATCH ADJACENT BUILDING SURFACE, SEE 5/A8.01

PAINT COLOR SCHEDULE

- KMW45 FEATHER WHITE
- KM5819 ROTUNDA WHITE
- KMA3 HAUTE COUTURE
- KMA89 BLACK OAK
- KMA89 ROASTED KONA
- HLS4268 RED HOT JAZZ
- KM5407 BRICK-A-BRACK



Revisions	Delta	Date	Revisions	By

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Architect/Engineer Of Record: _____



HY Architects Project number: 5775

Facility
SAN RAFAEL HIGH SCHOOL
150 3RD STREET, SAN RAFAEL, CA 94901

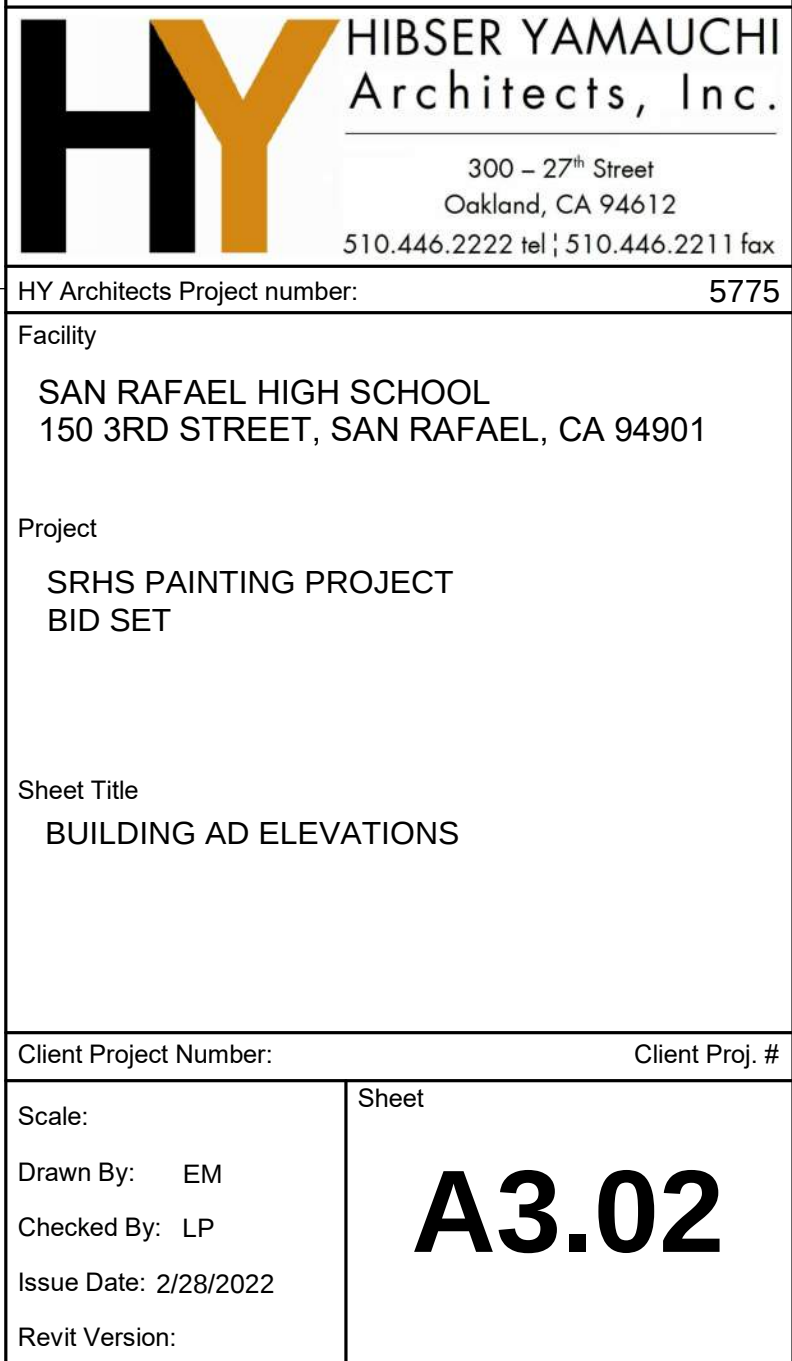
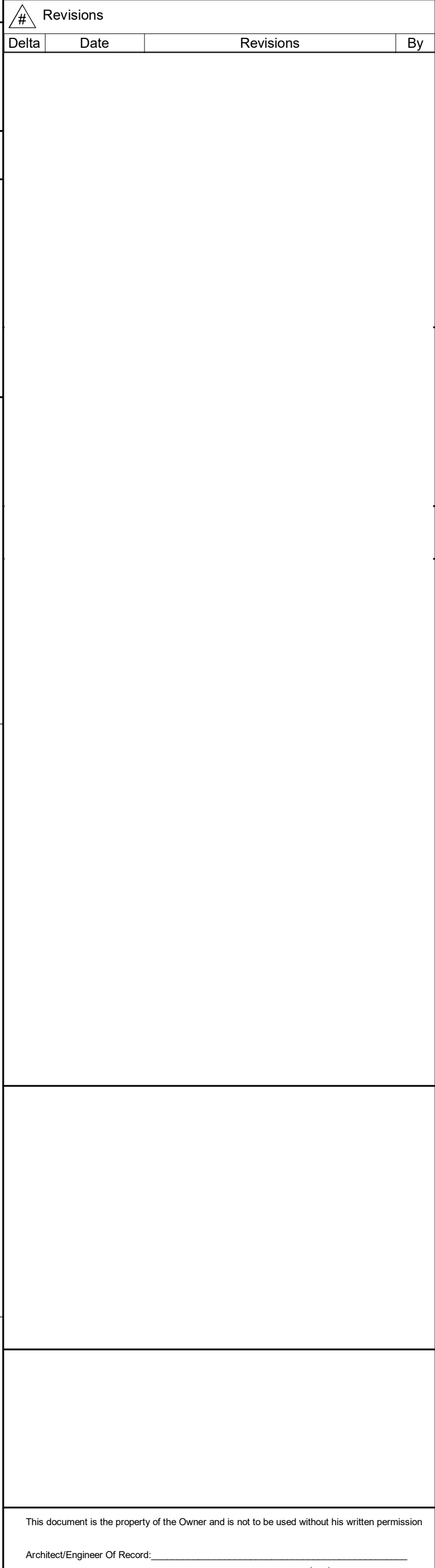
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BID SET

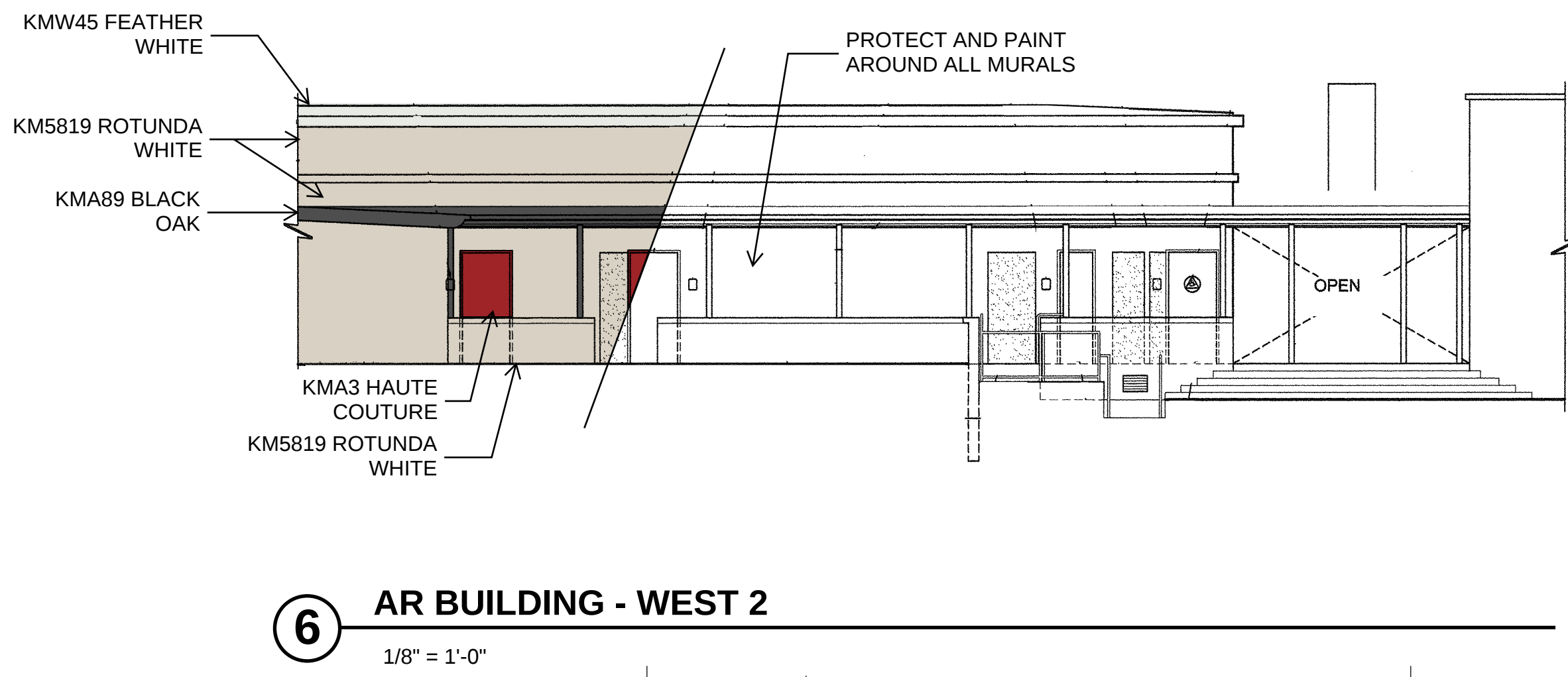
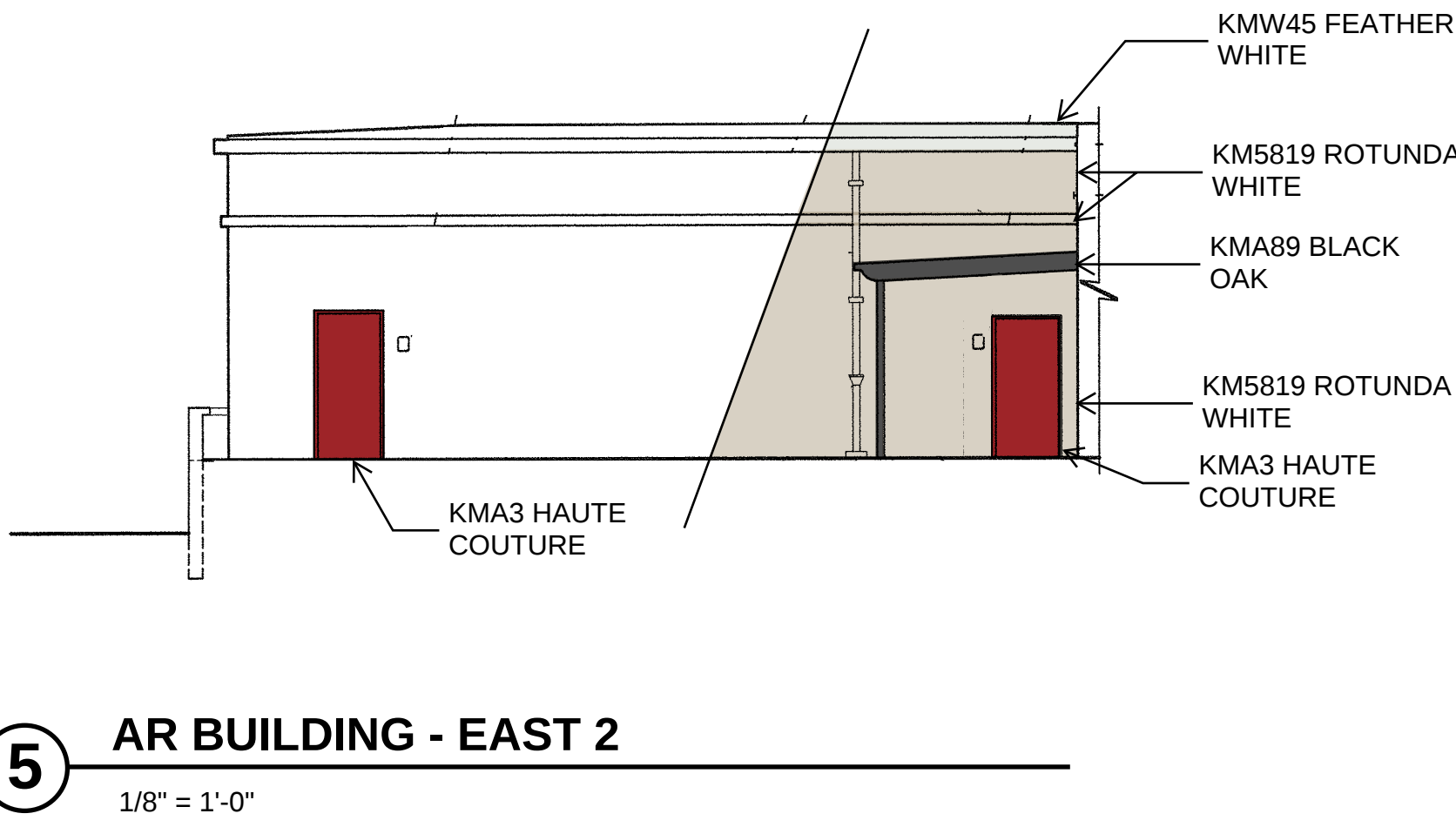
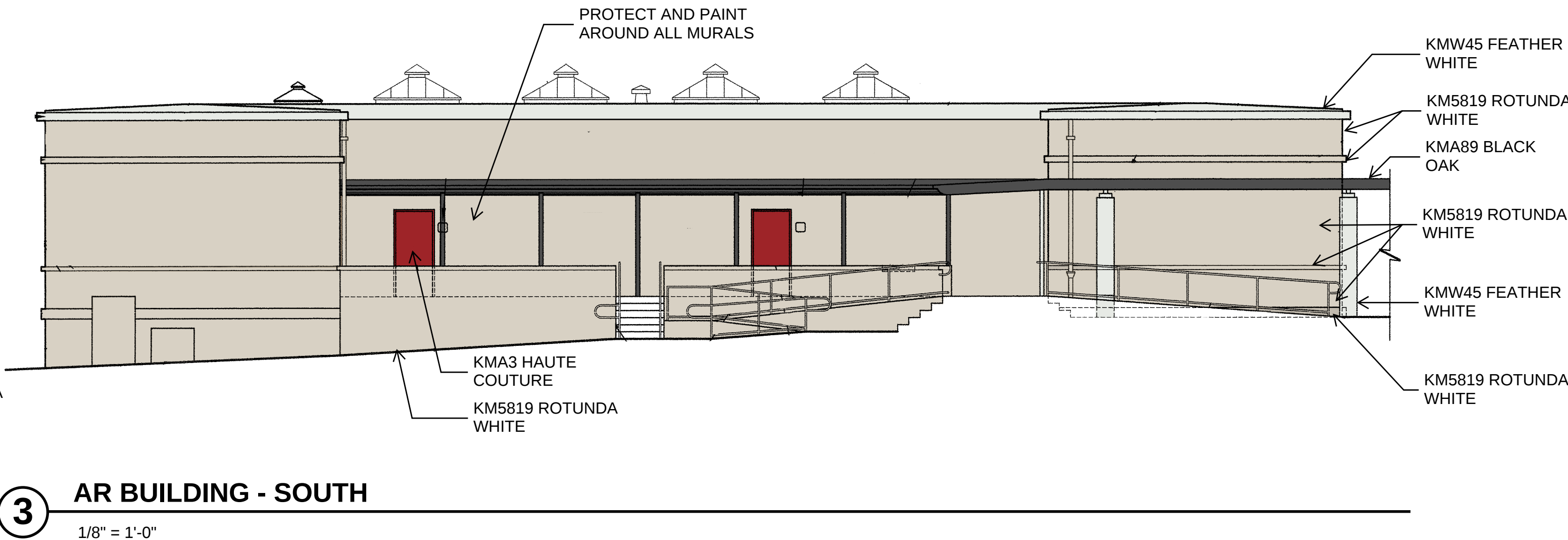
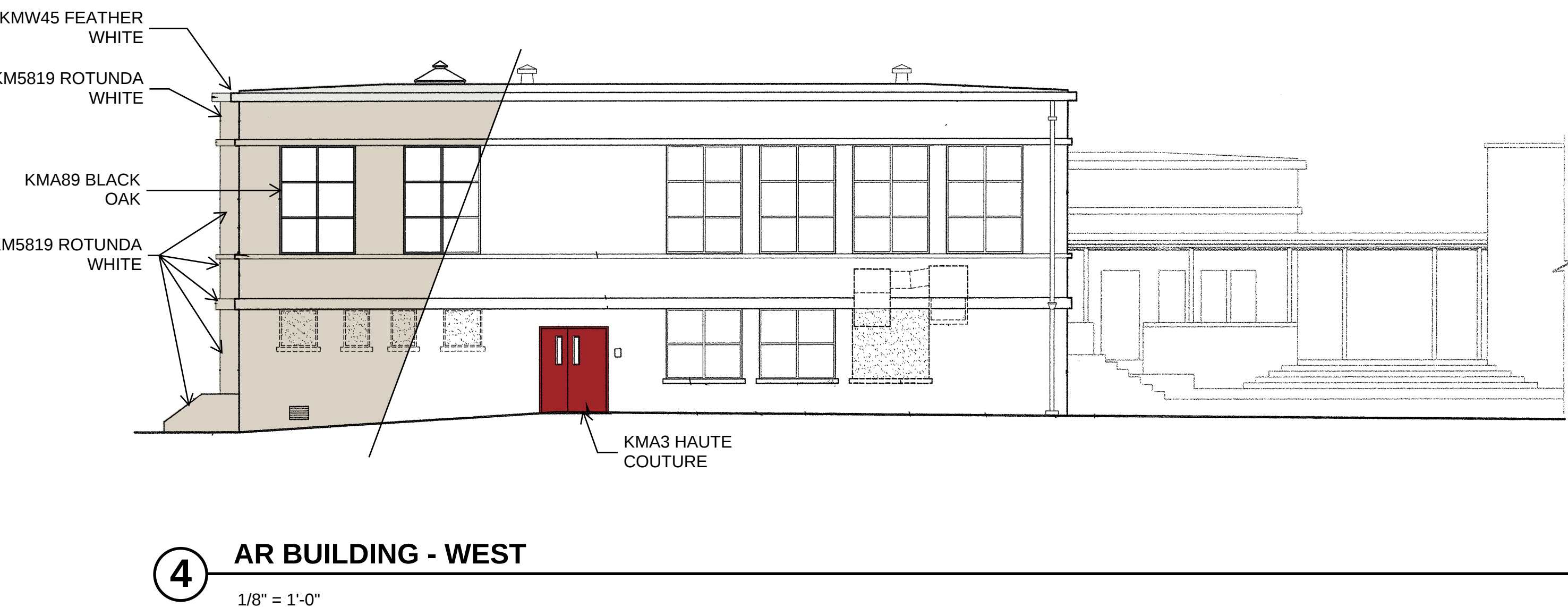
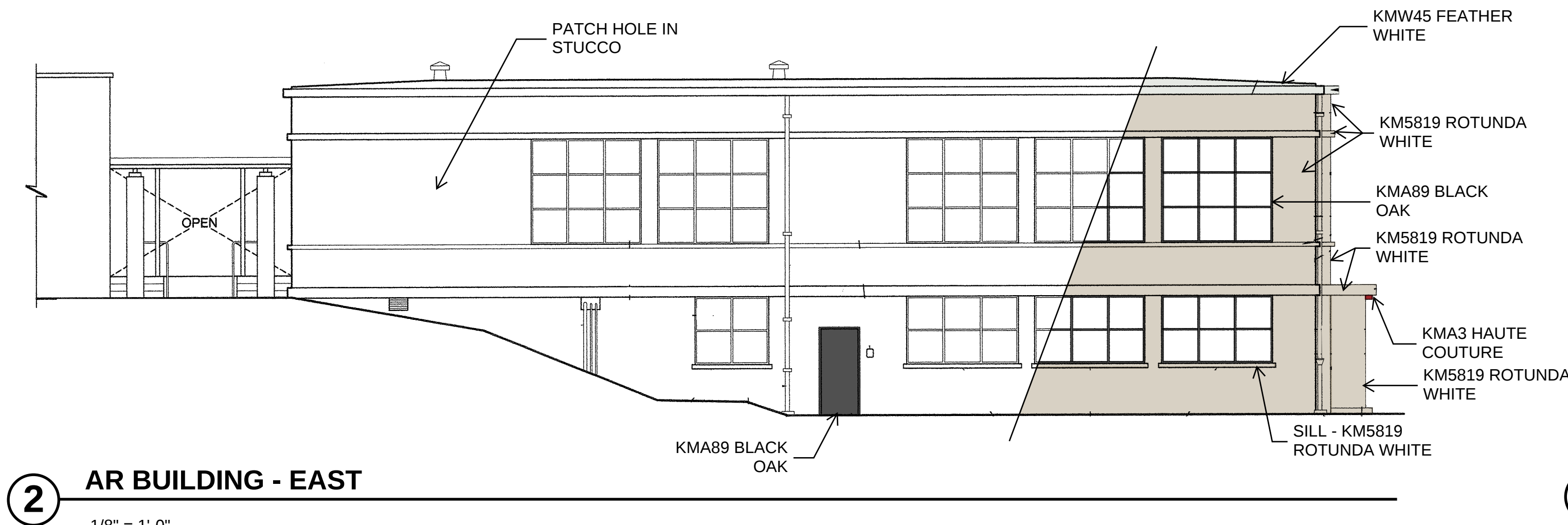
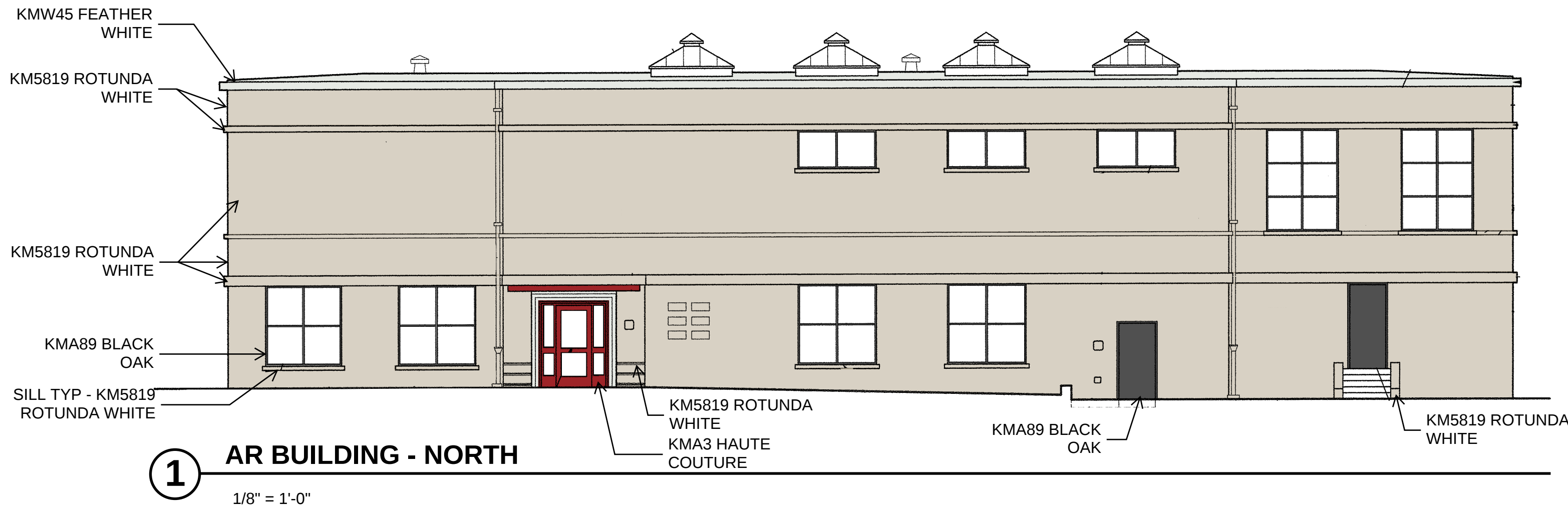
Sheet Title
BUILDING AD ELEVATIONS

Client Project Number: Client Proj. #

Scale:
Drawn By: EM
Checked By: LP
Issue Date: 2/28/2022
Revit Version:

A3.01





GENERAL NOTES

1. TYP AT ALL BUILDINGS ON CAMPUS WHERE PLANTS OCCUR ADJACENT TO WALL; PROTECT PLANTS TO GREATEST EXTENT POSSIBLE AND PAINT ENTIRE WALL SURFACE BEHIND THE PLANTS
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TYPICAL PAINT COLOR NOTES

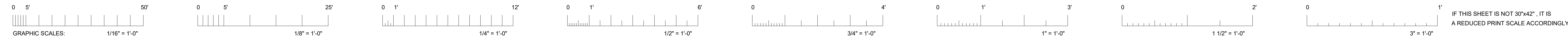
1. PAINT ALL WINDOW FRAMES KMA89 BLACK OAK
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6. PAINT ALL DOWNSPOUTS, PIPES, AND METAL SHROUDS TO MATCH ADJACENT BUILDING SURFACE, SEE 5/A8.01

PAINT COLOR SCHEDULE

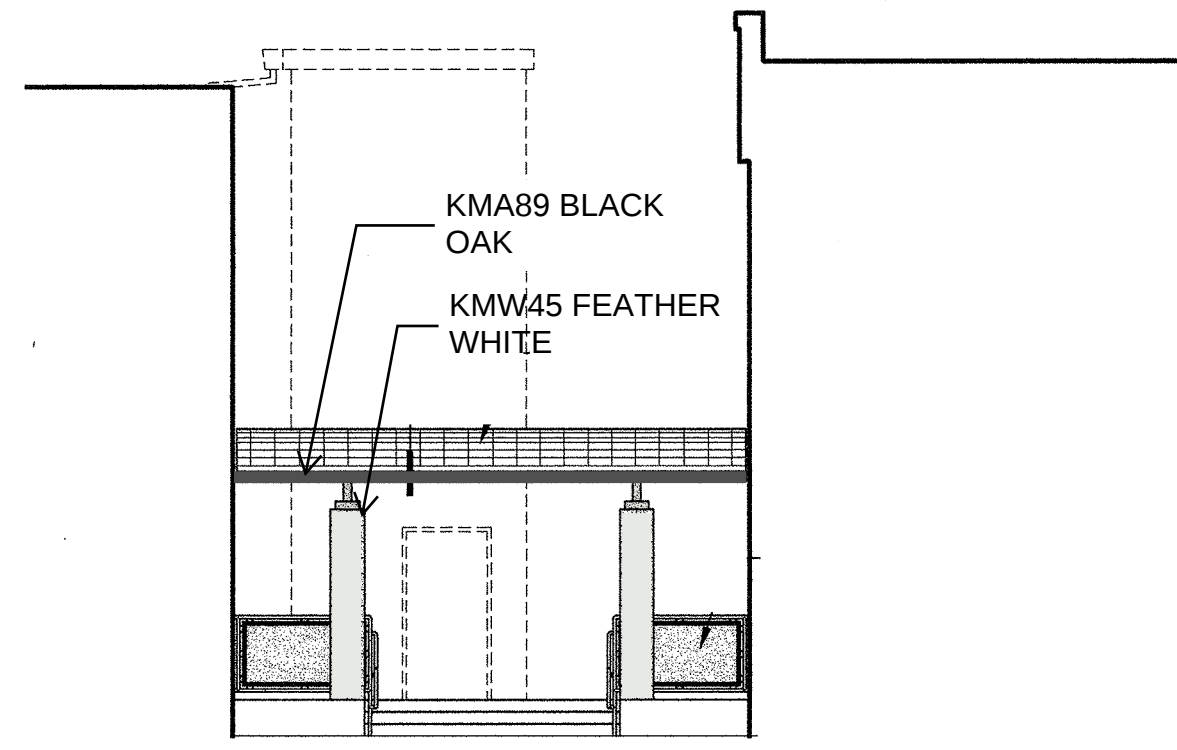
- KMW45 FEATHER WHITE
- KM5819 ROTUNDA WHITE
- KMA3 HAUTE COUTURE
- KMA89 BLACK OAK
- KMA89 ROASTED KONA
- HLS4268 RED HOT JAZZ
- KM5407 BRICK-A-BRACK

Revisions	Delta	Date	Revisions	By

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1 LA BUILDING - NORTH
1/8" = 1'-0"



2 LA BUILDING - NORTH 2
1/8" = 1'-0"

GENERAL NOTES

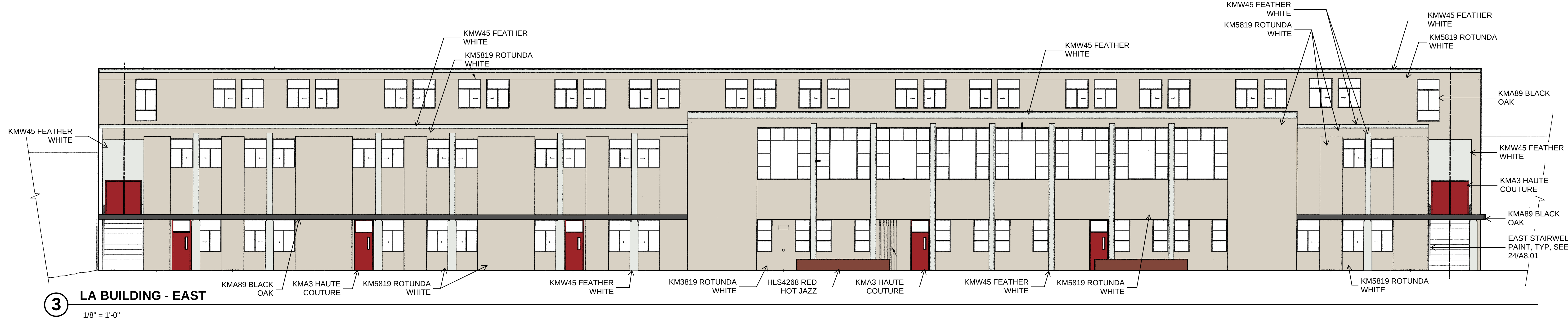
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TYPICAL PAINT COLOR NOTES

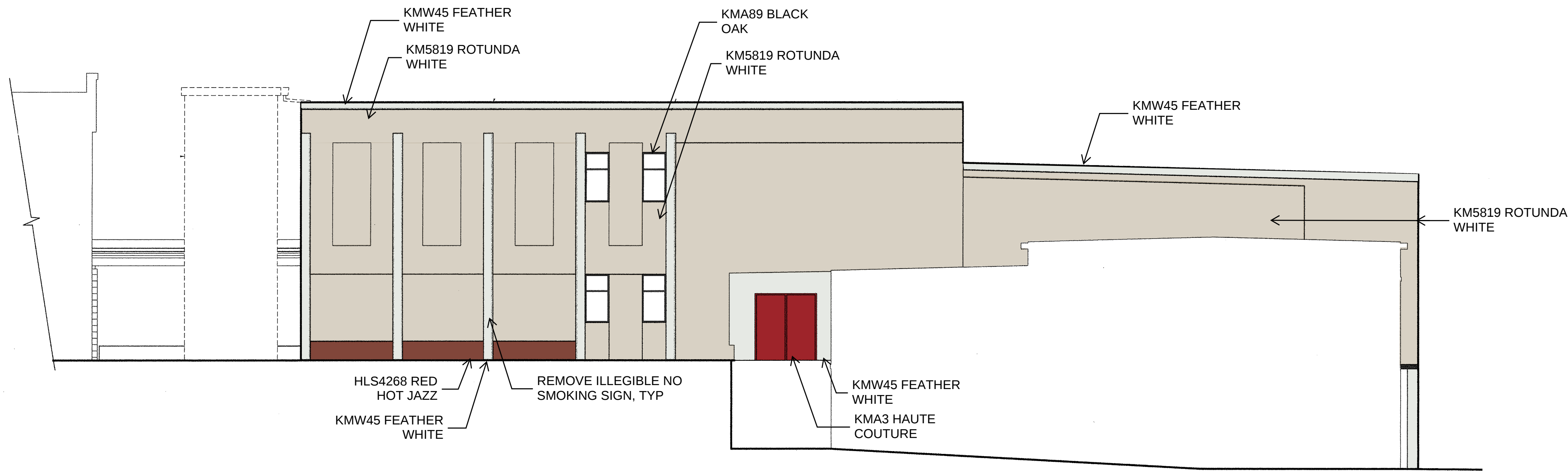
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PAINT COLOR SCHEDULE

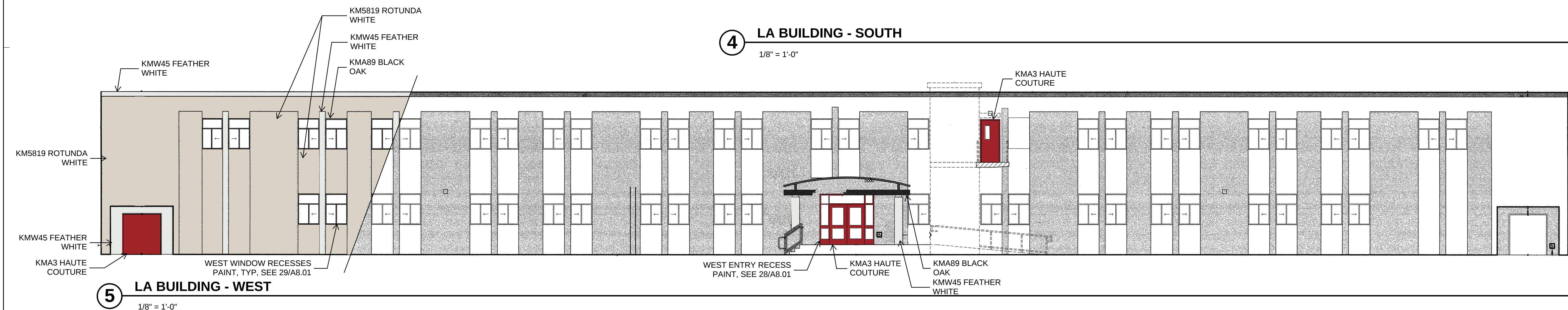
- KMW45 FEATHER WHITE
- KM5819 ROTUNDA WHITE
- KMA3 HAUTE COUTURE
- KMA89 BLACK OAK
- KMA89 ROASTED KONA
- HLS4268 RED HOT JAZZ
- KM5407 BRICK-A-BRACK



3 LA BUILDING - EAST
1/8" = 1'-0"



4 LA BUILDING - SOUTH
1/8" = 1'-0"



5 LA BUILDING - WEST
1/8" = 1'-0"

Revisions	Delta	Date	Revisions	By

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GENERAL NOTES

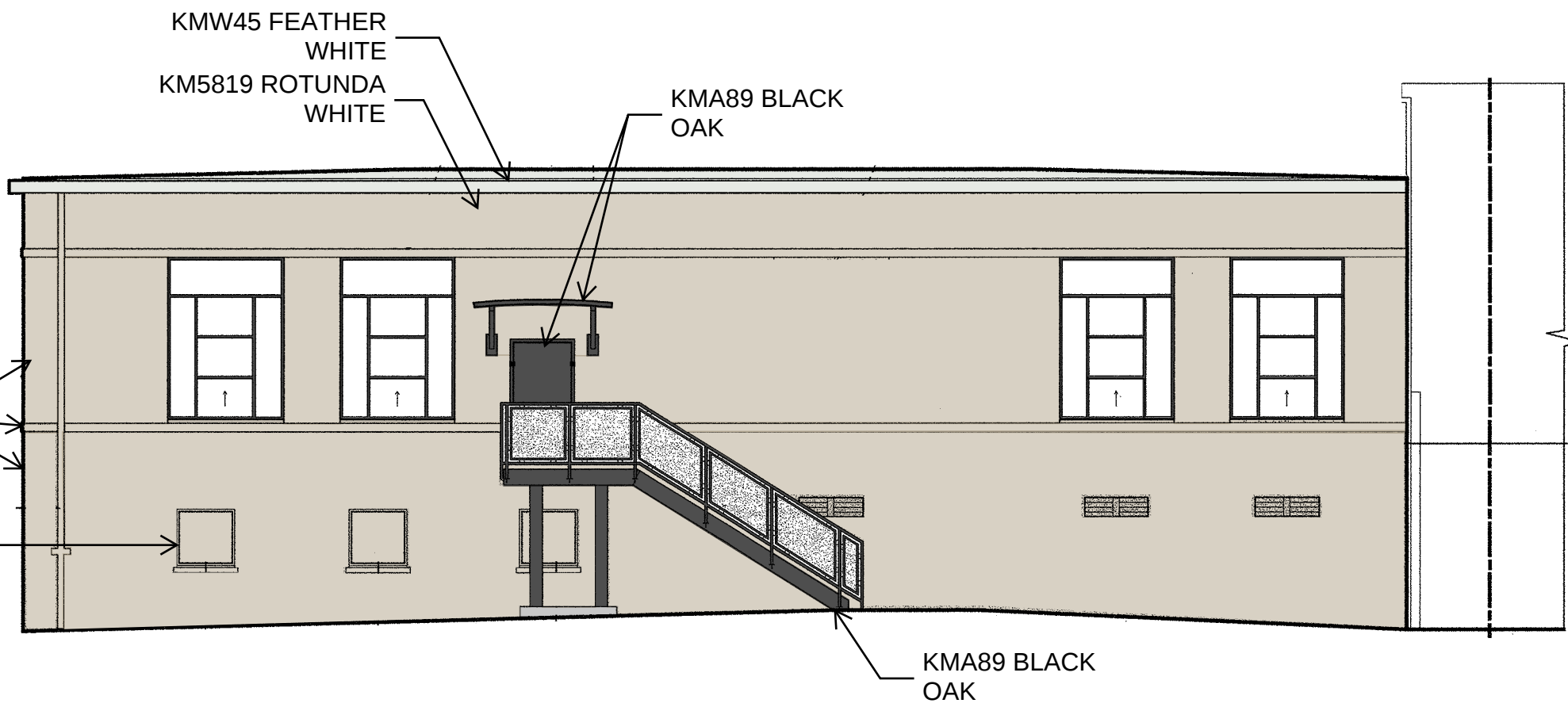
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POSSIBLE AND PAINT ENTIRE WALL SURFACE BEHIND THE PLANTS
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ADJACENT BUILDING SURFACE, SEE 5/A8.01

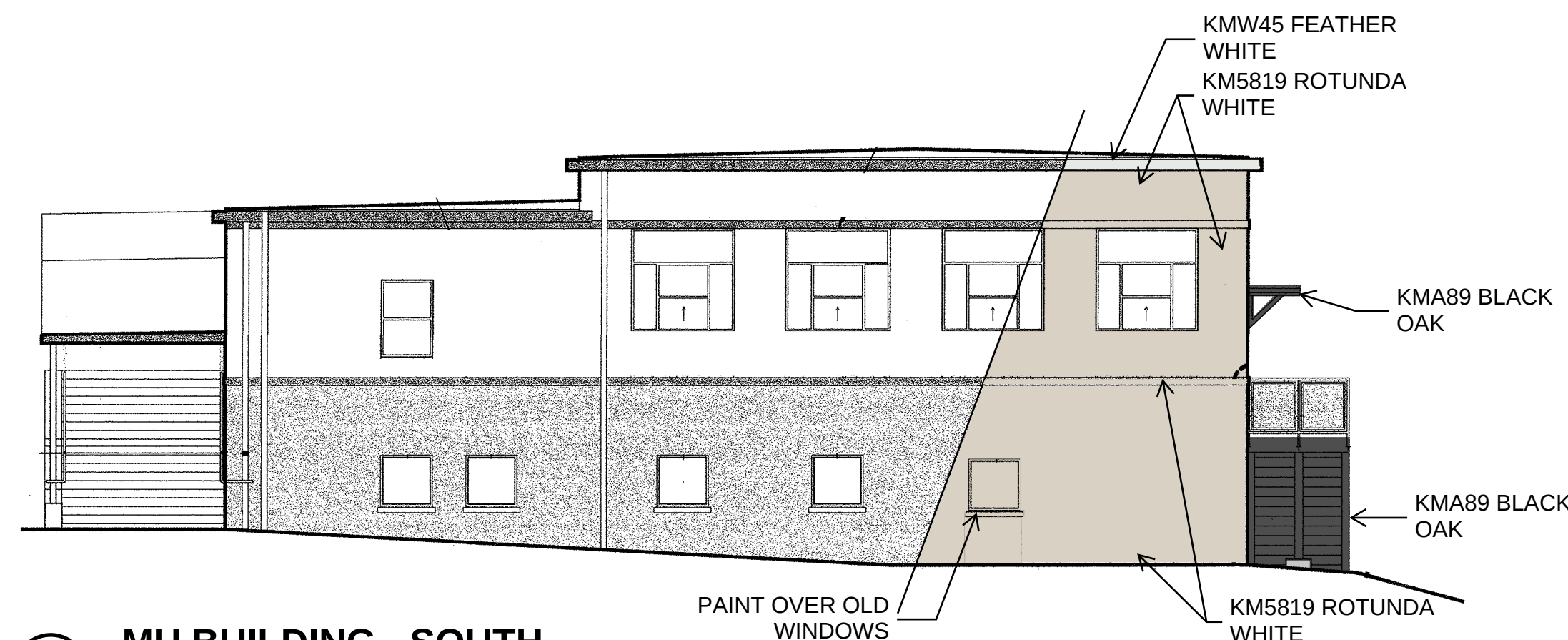
PAINT COLOR SCHEDULE

- KMW45 FEATHER
WHITE
- KM5819 ROTUNDA
WHITE
- KMA3 HAUTE COUTURE
- KMA89 BLACK OAK
- KMA69 ROASTED KONA
- HLS4268 RED HOT JAZZ
- KM5407 BRICK-A-BRACK



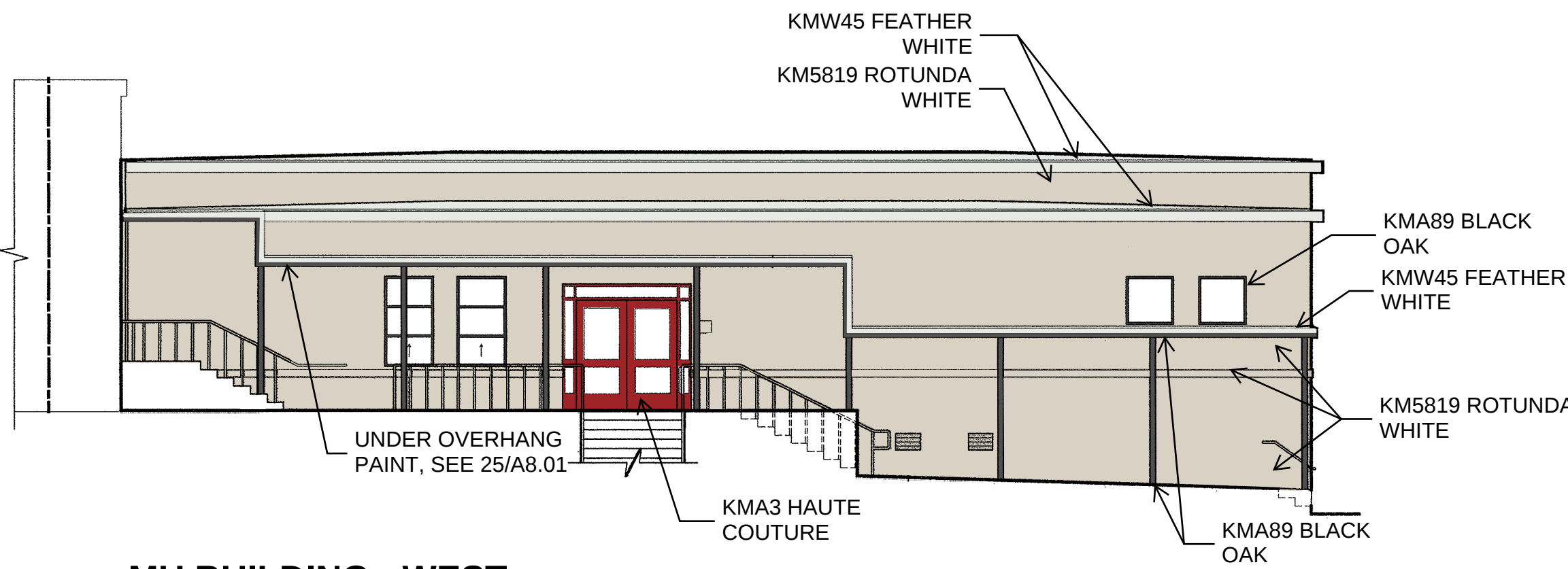
MU BUILDING - EAST

1/8" = 1'-0"



MU BUILDING - SOUTH

1/8" = 1'-0"



MU BUILDING - WEST

1/8" = 1'-0"

Revisions			
Delta	Date	Revisions	By

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HY Architects Project number: 5775

Facility
SAN RAFAEL HIGH SCHOOL
150 3RD STREET, SAN RAFAEL, CA 94901

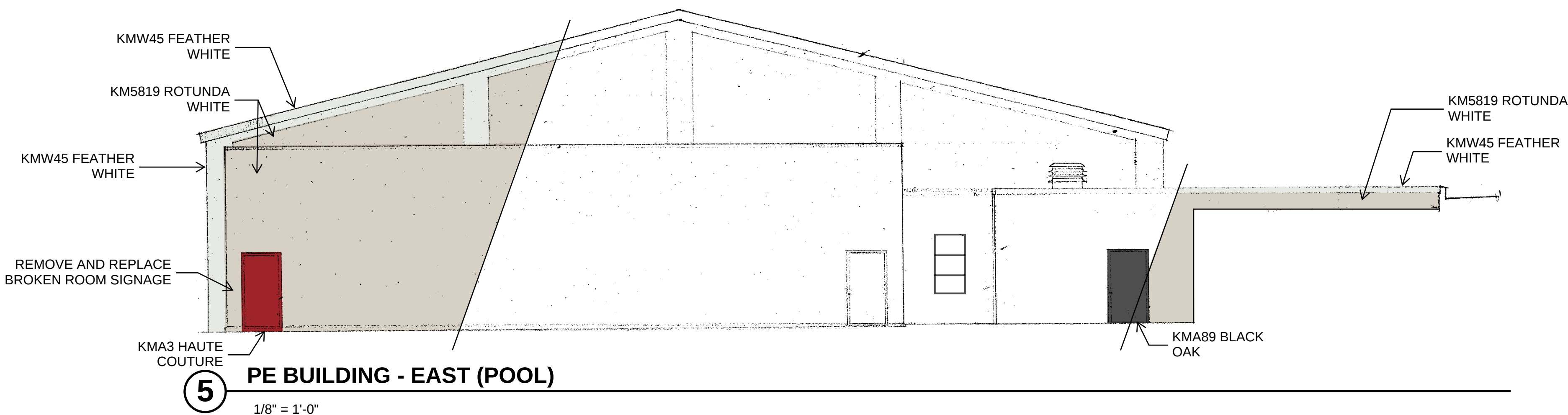
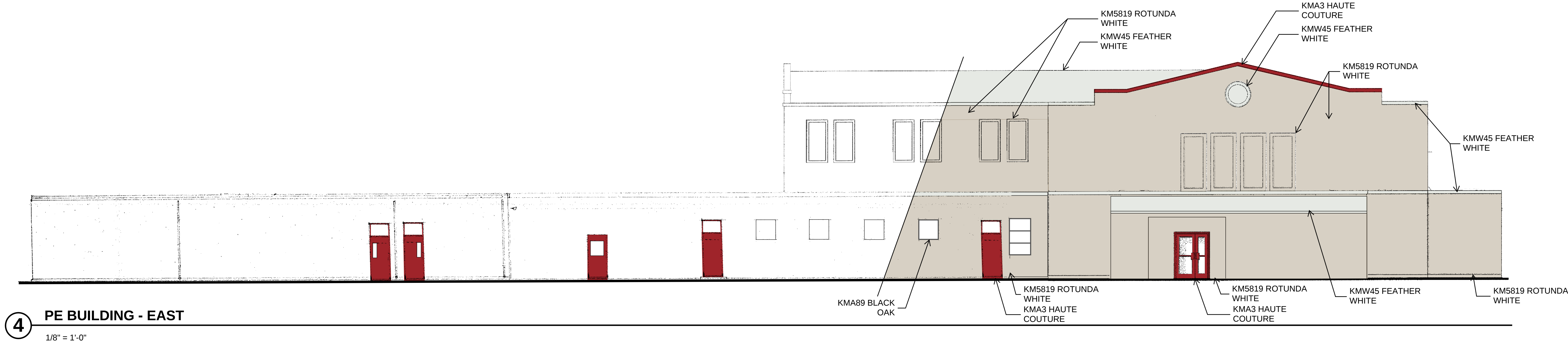
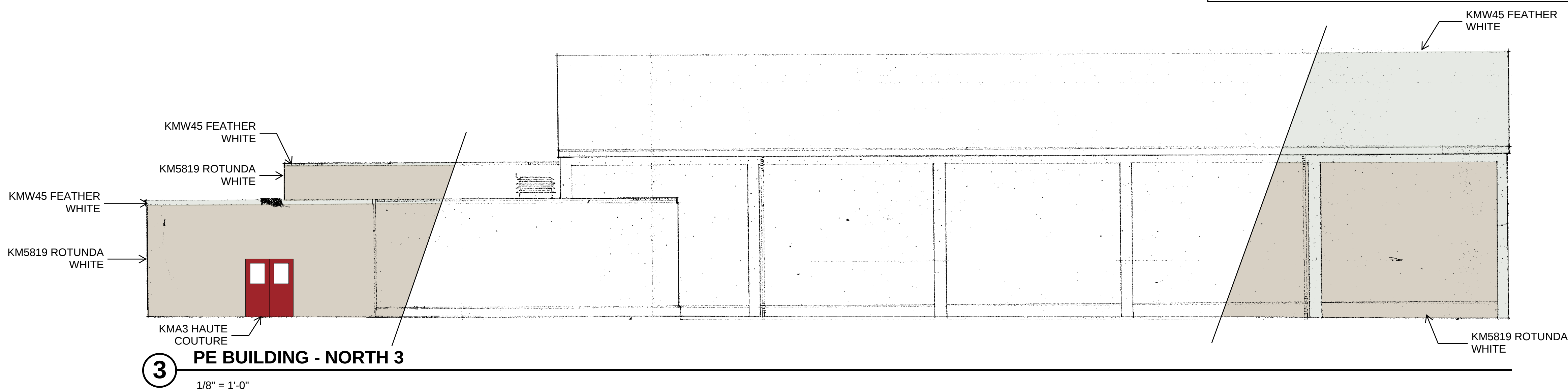
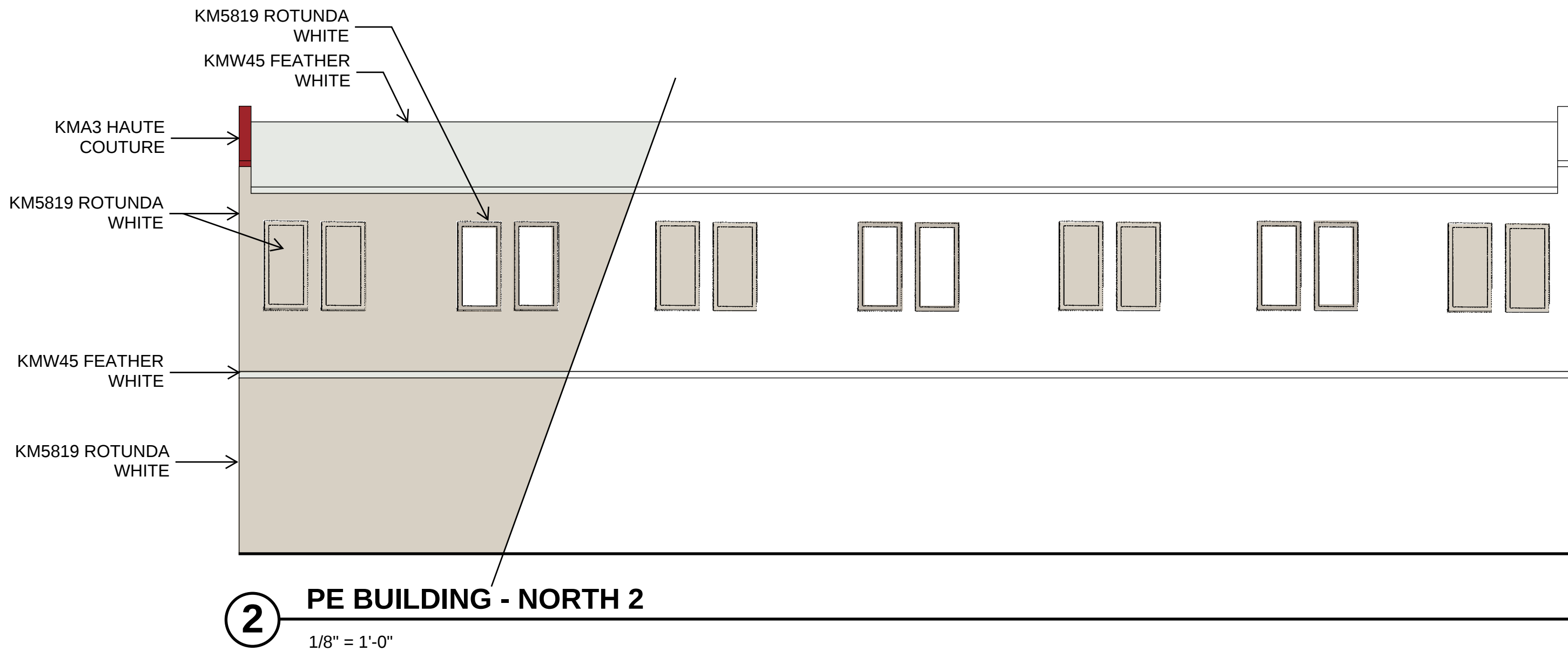
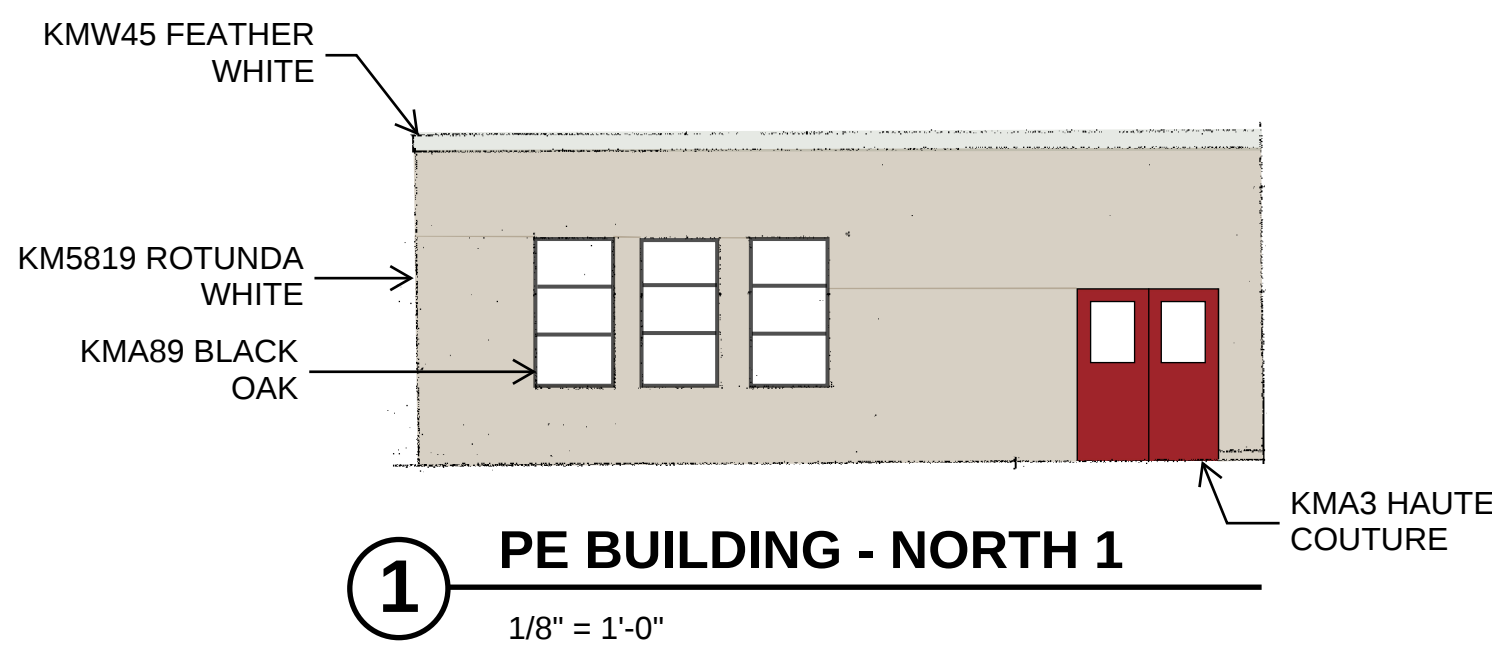
Project
SRHS PAINTING PROJECT
BID SET

Sheet Title
BUILDING MU ELEVATIONS

Client Project Number: Client Proj. #

Scale:
Drawn By: EM
Checked By: LP
Issue Date: 2/28/2022
Revit Version:

Sheet
A3.05



GENERAL NOTES

1. TYP AT ALL BUILDINGS ON CAMPUS WHERE PLANTS OCCUR ADJACENT TO WALL. PROTECT PLANTS TO GREATEST EXTENT POSSIBLE AND PAINT ENTIRE WALL SURFACE BEHIND THE PLANTS
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TYPICAL PAINT COLOR NOTES

1. PAINT ALL WINDOW FRAMES KMA89 BLACK OAK
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PAINT COLOR SCHEDULE

- KMW45 FEATHER WHITE
- KM5819 ROTUNDA WHITE
- KMA3 HAUTE COUTURE
- KMA89 BLACK OAK
- KMA89 ROASTED KONA
- HLS4268 RED HOT JAZZ
- KM5407 BRICK-A-BRACK

Revisions	Delta	Date	Revisions	By

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Architect/Engineer Of Record: _____

HY Architects Project number: 5775

Facility
SAN RAFAEL HIGH SCHOOL
150 3RD STREET, SAN RAFAEL, CA 94901

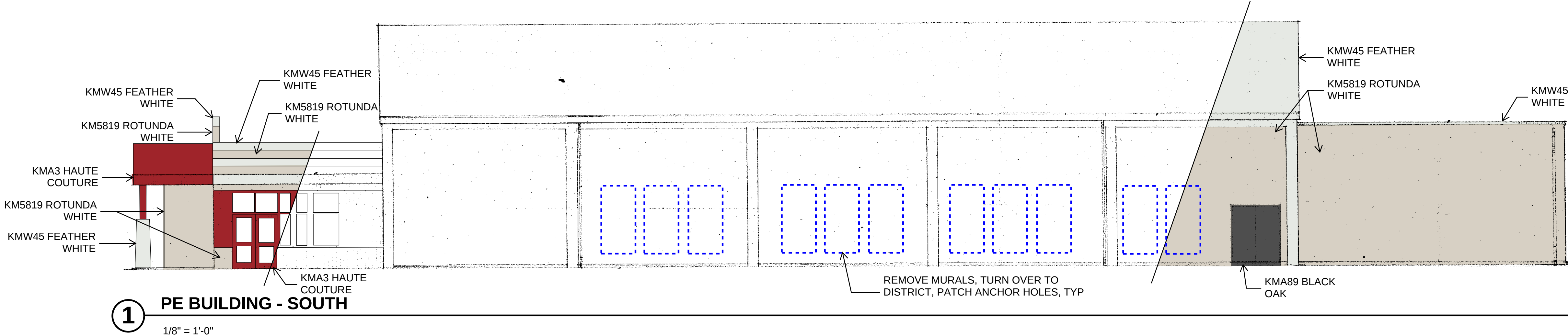
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BID SET

Sheet Title
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Client Project Number: Client Proj. #

Scale:
Drawn By: EM
Checked By: LP
Issue Date: 2/28/2022
Revit Version:

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A3.06



GENERAL NOTES

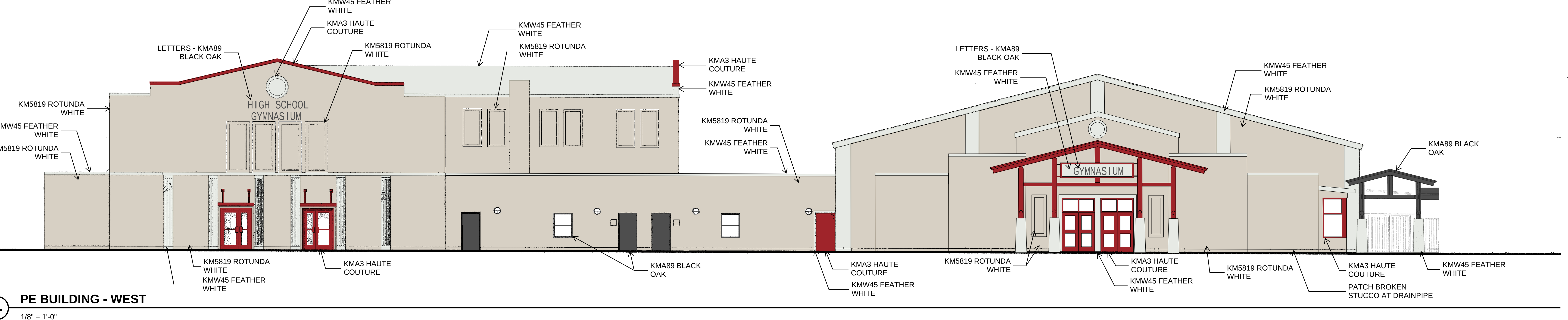
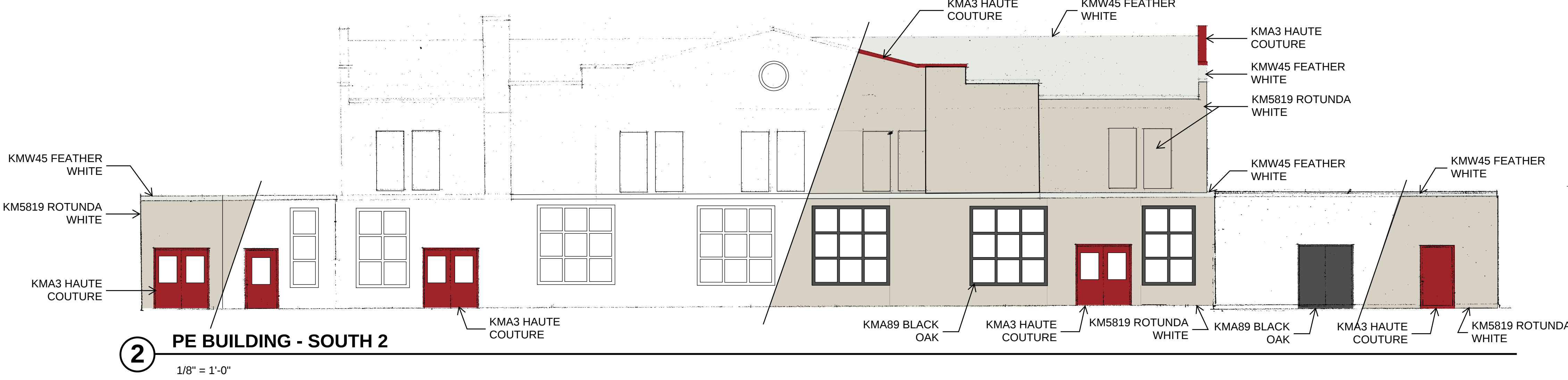
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PAINT COLOR SCHEDULE

KMW45 FEATHER WHITE	KMW45 FEATHER WHITE
KM5819 ROTUNDA WHITE	KM5819 ROTUNDA WHITE
KMA3 HAUTE COUTURE	KMA3 HAUTE COUTURE
KMA89 BLACK OAK	KMA89 BLACK OAK
KMA89 ROASTED KONA	KMA89 ROASTED KONA
HLS4268 RED HOT JAZZ	HLS4268 RED HOT JAZZ
KM5407 BRICK-A-BRACK	KM5407 BRICK-A-BRACK



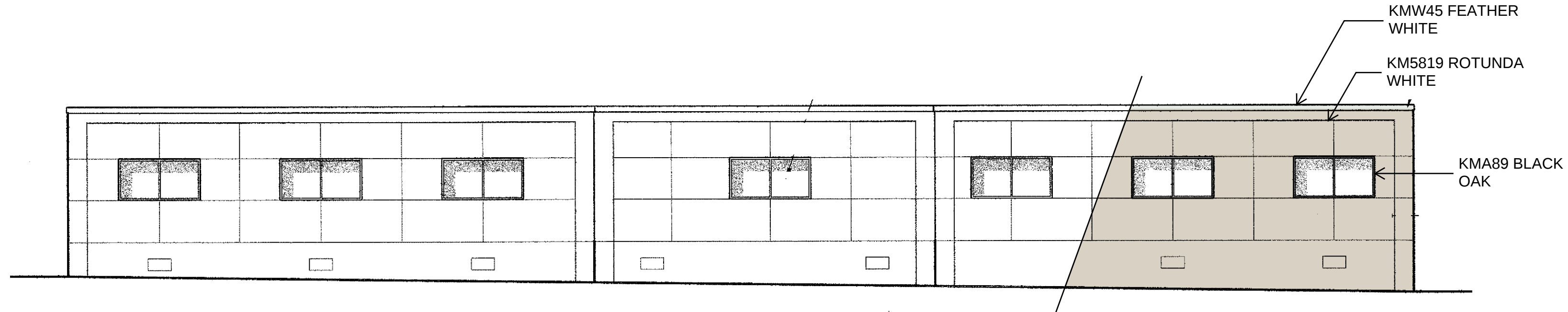
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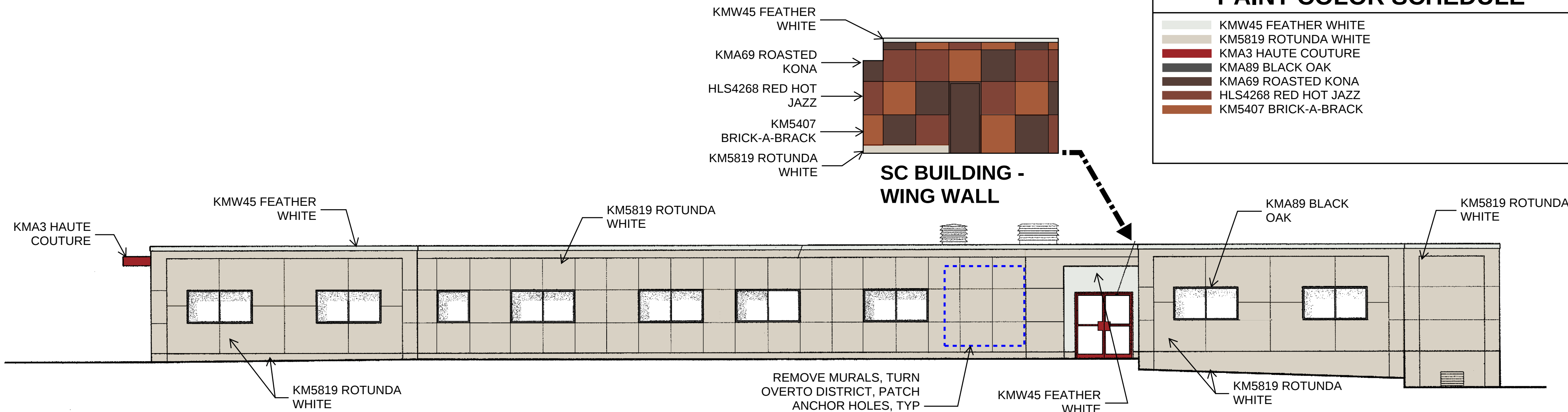
Facility
SAN RAFAEL HIGH SCHOOL
150 3RD STREET, SAN RAFAEL, CA 94901

Project
SRHS PAINTING PROJECT
BID SET

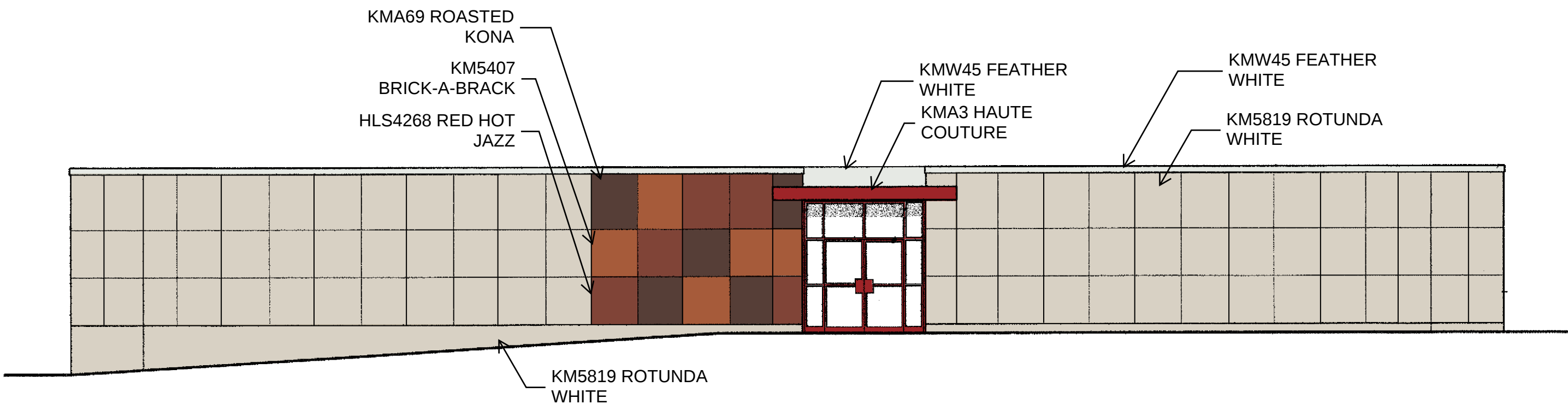
Sheet Title
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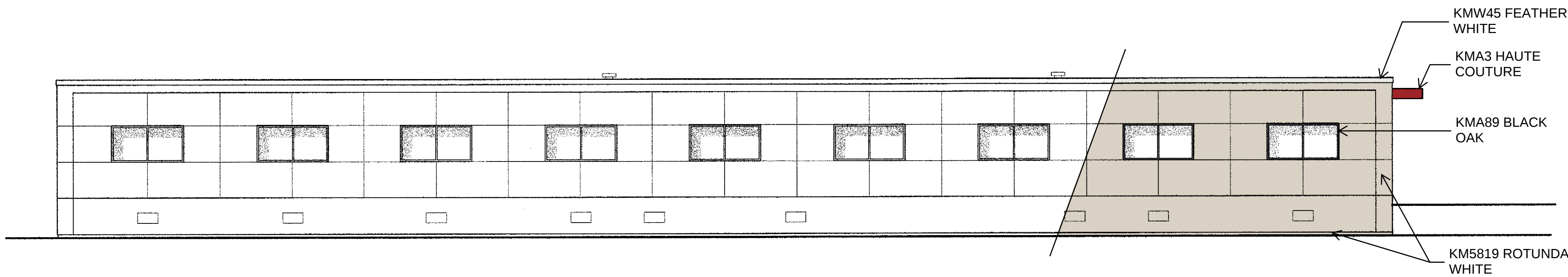
1 SC BUILDING - NORTH
1/8" = 1'-0"



2 SC BUILDING - EAST
1/8" = 1'-0"



3 SC BUILDING - SOUTH
1/8" = 1'-0"



4 SC BUILDING - WEST
1/8" = 1'-0"

GENERAL NOTES

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- KMA69 ROASTED KONA
- HLS4268 RED HOT JAZZ
- KM5407 BRICK-A-BRACK

Revisions	Delta	Date	Revisions	By

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GENERAL NOTES

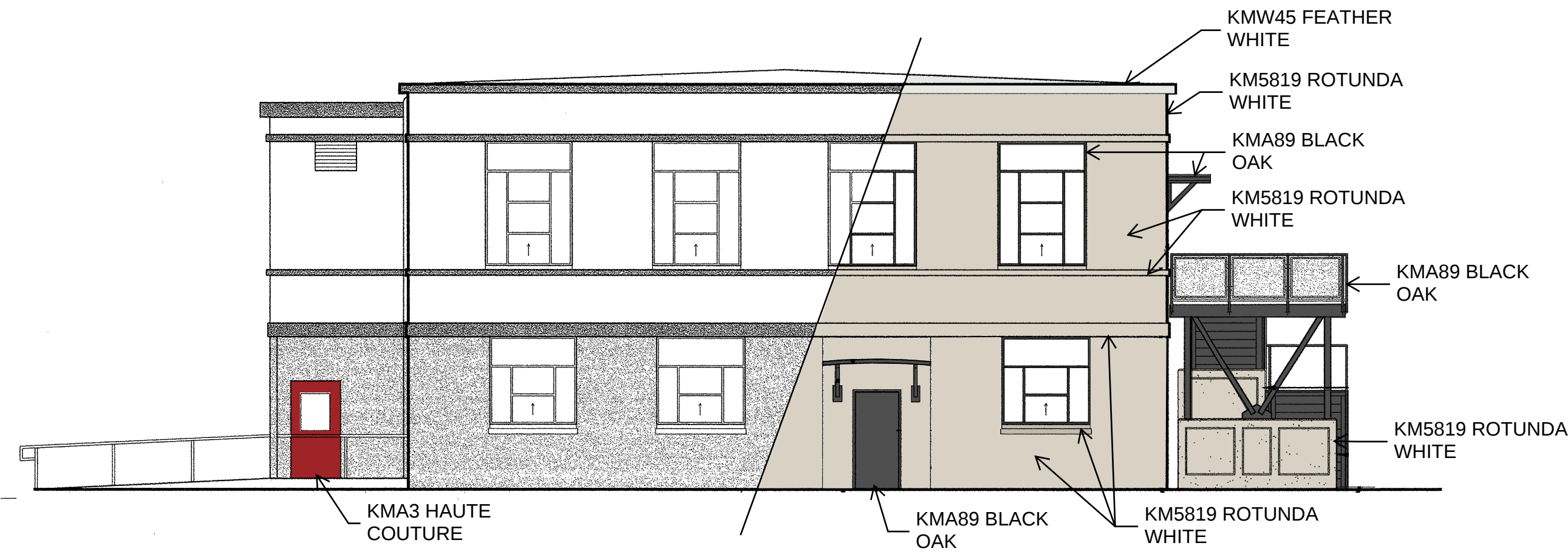
1. TYP AT ALL BUILDINGS ON CAMPUS WHERE PLANTS OCCUR ADJACENT TO WALL; PROTECT PLANTS TO GREATEST EXTENT POSSIBLE AND PAINT ENTIRE WALL SURFACE BEHIND THE PLANTS
2. PAINT ALL METAL BEAMS, METAL AND CEMENT PLASTER COLUMNS SUPPORTING CANOPIES AND OTHER FREESTANDING STRUCTURES THROUGHOUT ENTIRE CAMPUS, SEE ALL ELEVATIONS AND A8.01
3. PAINT ALL HANDRAILS AND METAL GRATES TYP THROUGHOUT ENTIRE CAMPUS, SEE A8.01 AND A8.02
4. REMOVE FADED NO SMOKING SIGNS WHERE OCCURS THROUGHOUT CAMPUS PRIOR TO PAINTING
5. ALL COVERED WALKWAYS AND CANOPIES SHALL BE PAINTED ON ALL SIDES INCLUDING THE TOP AND BOTTOM, SEE A8.01
6. TYPICAL CONDITIONS AND ADDITIONAL PAINTING DETAILS FOUND ON SHEET A8.01
7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

TYPICAL PAINT COLOR NOTES

1. PAINT ALL WINDOW FRAMES KMA89 BLACK OAK
2. PAINT ALL RAILINGS AND SCREENS KMA89 BLACK OAK, SEE 2/A8.01
3. PAINT ALL CONCRETE COLUMNS KMW45 FEATHER WHITE
4. PAINT ALL STEEL COLUMNS KMA89 BLACK OAK
5. PAINT ALL PLANTERS AGAINST AD BUILDING WALL TO KM5819 ROTUNDA WHITE, SEE 30/A8.01
6. PAINT ALL DOWNSPOUTS, PIPES, AND METAL SHROUDS TO MATCH ADJACENT BUILDING SURFACE, SEE 5/A8.01

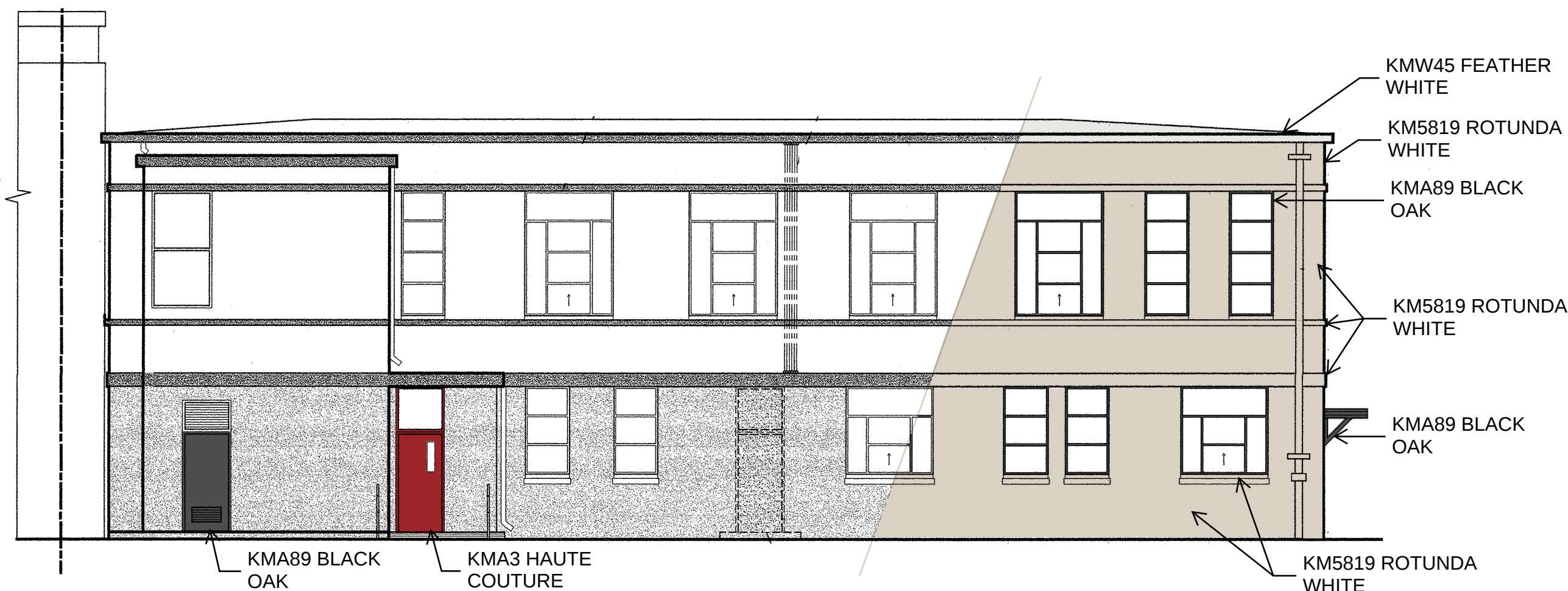
PAINT COLOR SCHEDULE

- KMW45 FEATHER WHITE
- KM5819 ROTUNDA WHITE
- KMA3 HAUTE COUTURE
- KMA89 BLACK OAK
- KMA69 ROASTED KONA
- HLS4268 RED HOT JAZZ
- KM5407 BRICK-A-BRACK



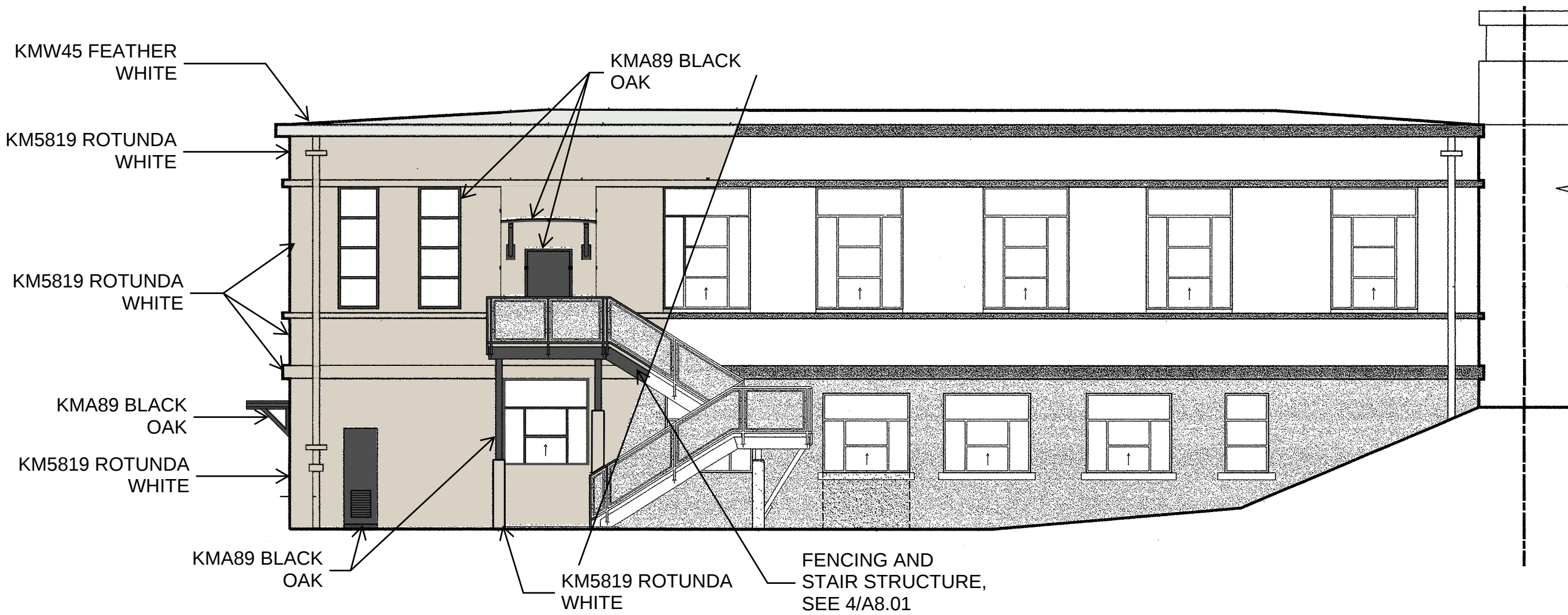
TE BUILDING - NORTH

1/8" = 1'-0"



TE BUILDING - EAST

1/8" = 1'-0"



TE BUILDING - WEST

1/8" = 1'-0"

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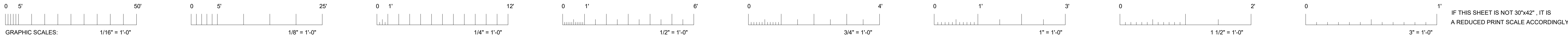
Project
SRHS PAINTING PROJECT
BID SET

Sheet Title
BUILDING TE ELEVATIONS

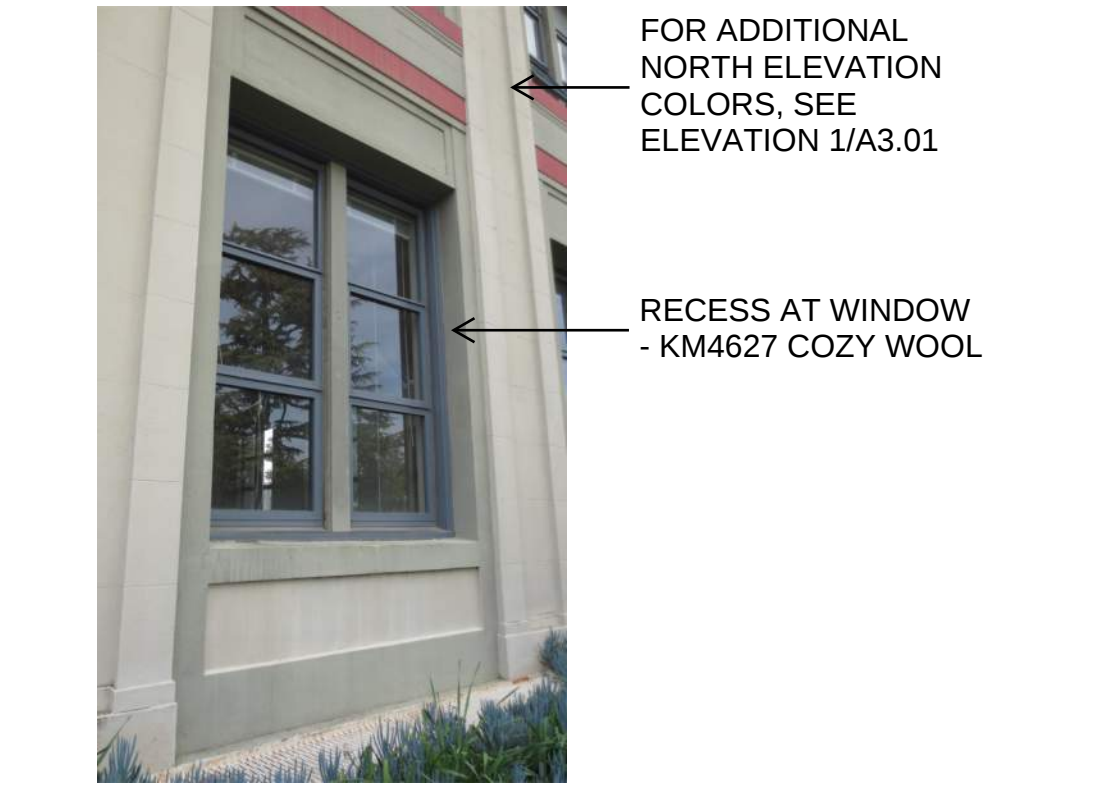
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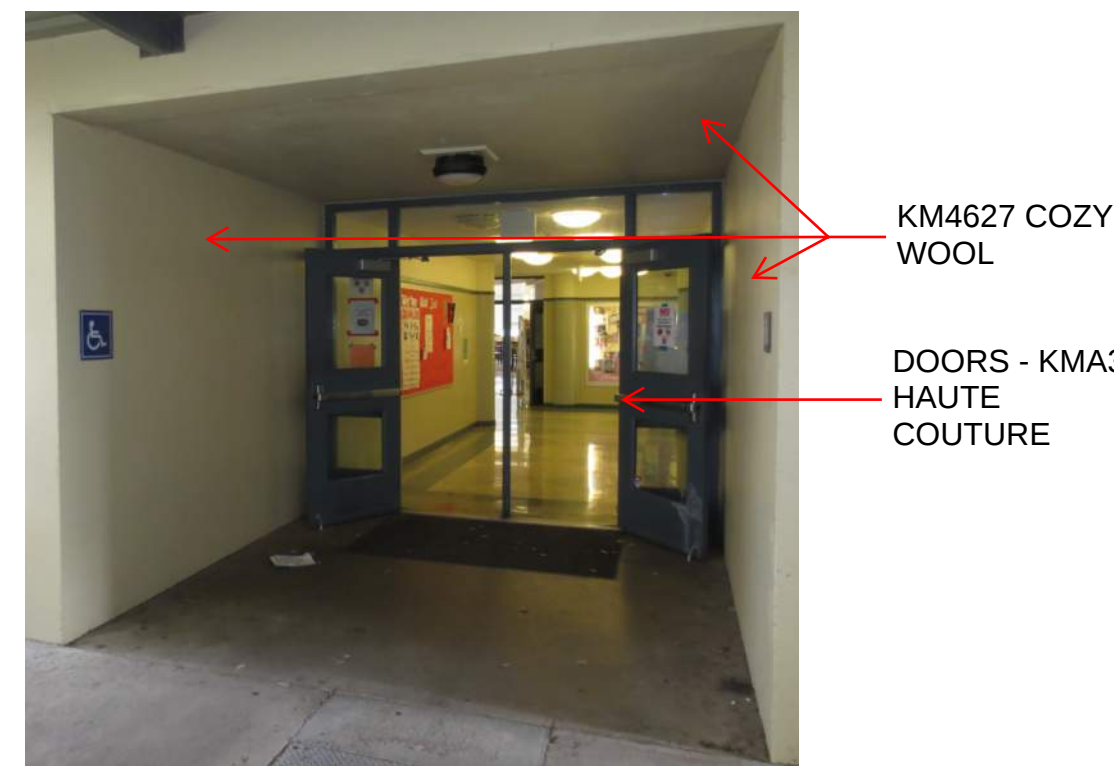
Sheet
A3.09



AD BUILDING - EAST WINDOW RECESS AND WALKWAY



AD BUILDING - NORTH WINDOW RECESS



LA BUILDING - WEST ENTRY RECESS



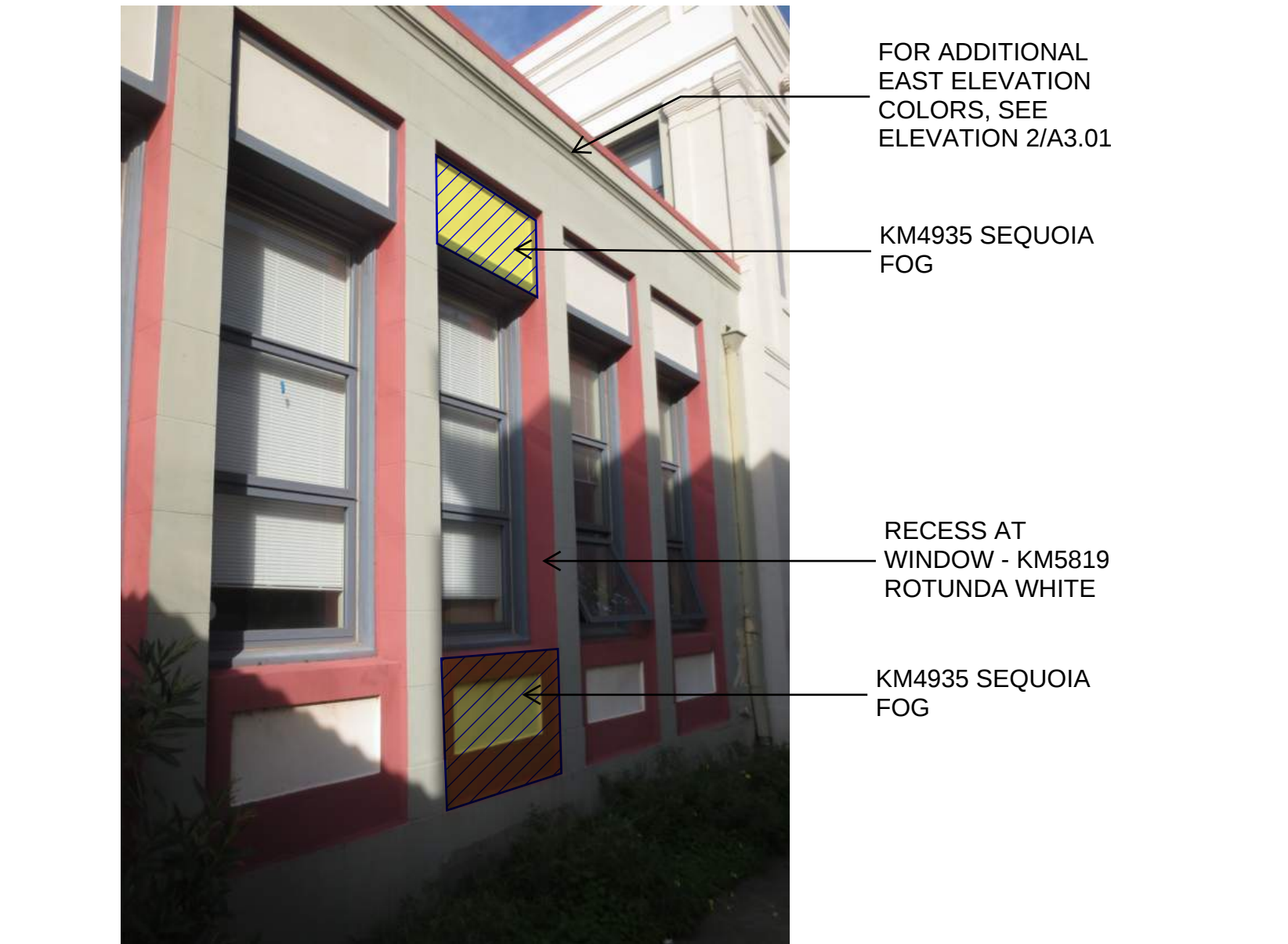
LA BUILDING - WEST WINDOW RECESS



EXISTING CONCRETE COLOR



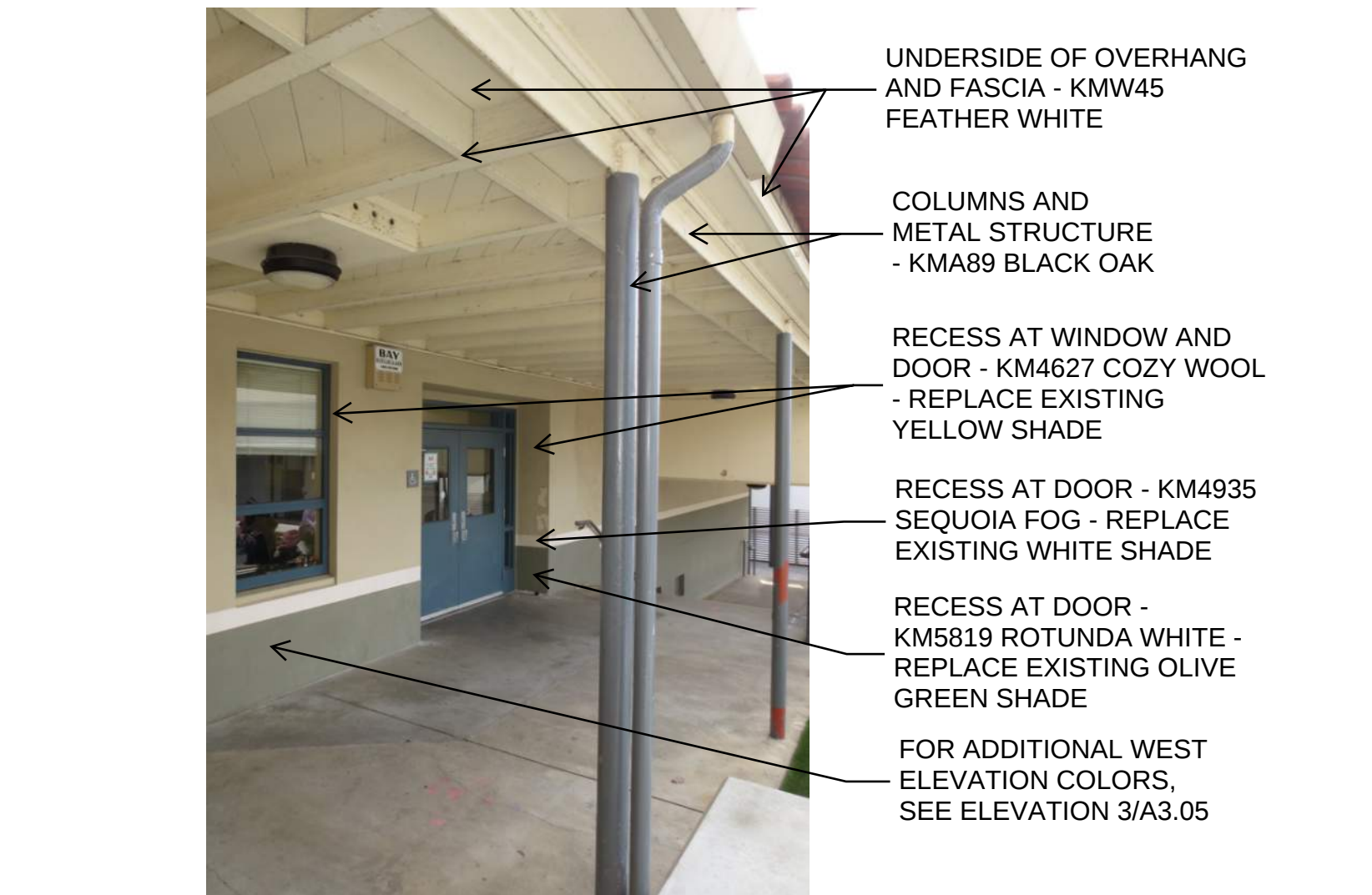
AD BUILDING MAIN ENTRY - CEILING



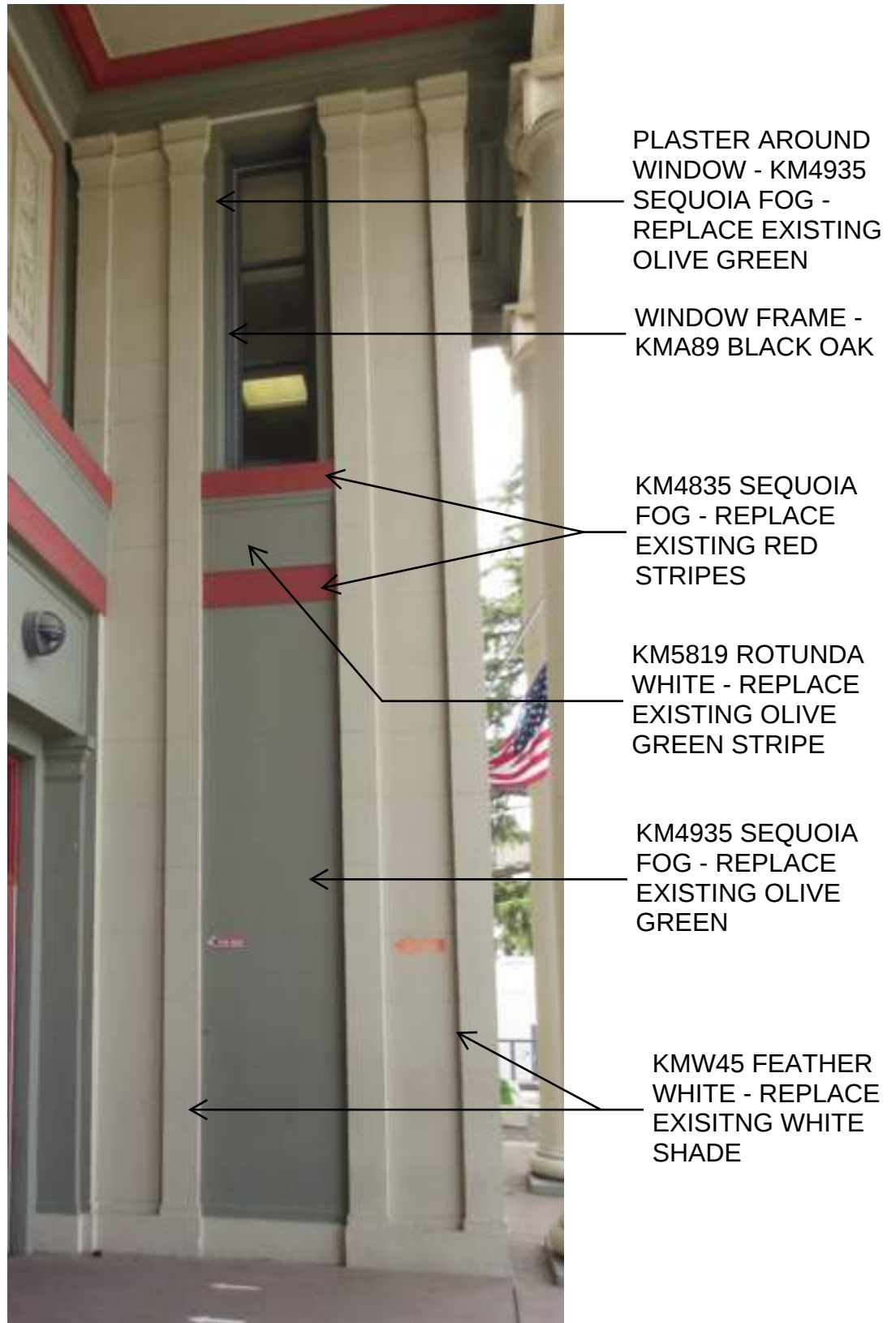
AD BUILDING - EAST WINDOW RECESS



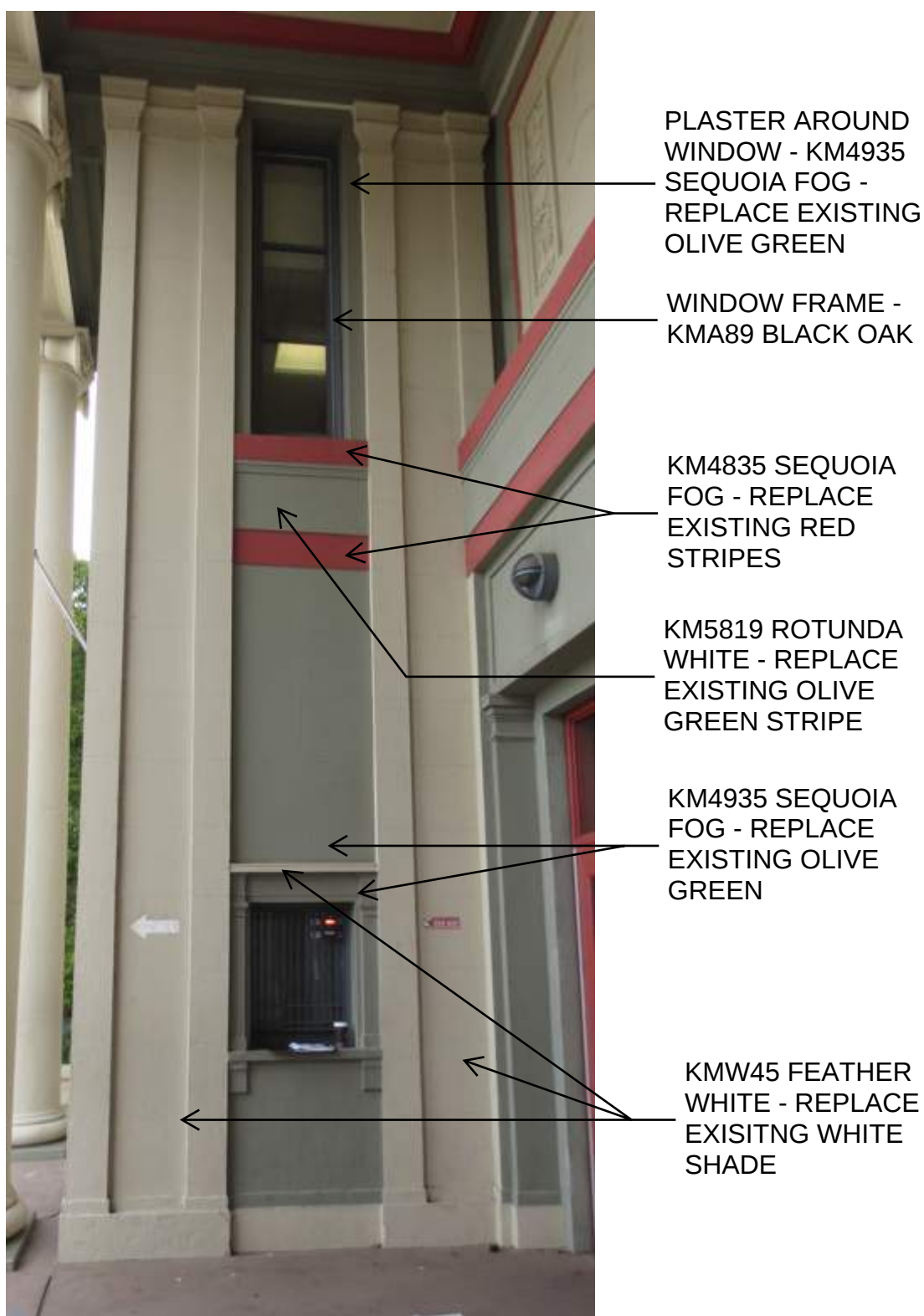
LA BUILDING - EAST STAIRWELLS



MU BUILDING - WEST UNDER OVERHANG



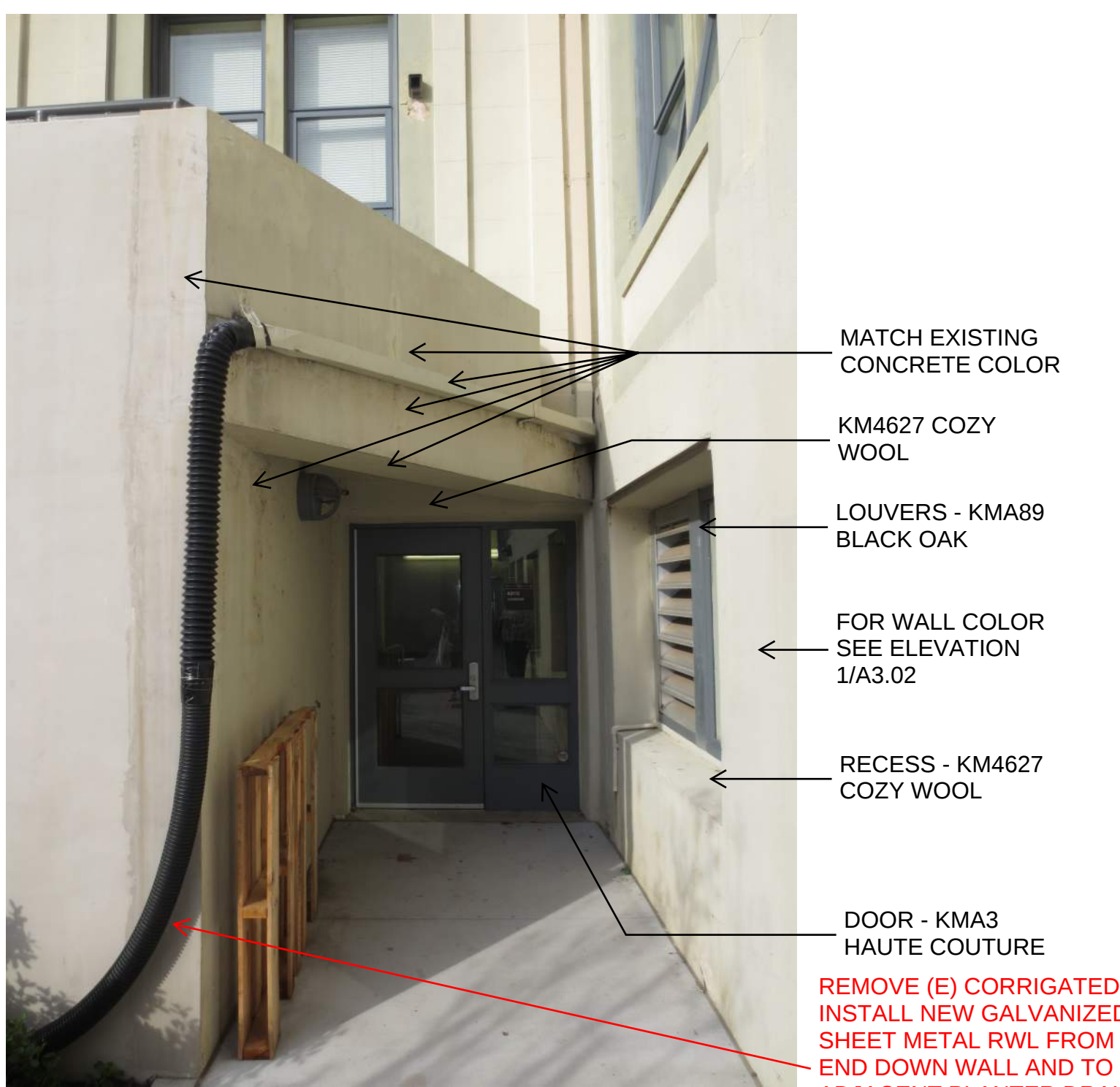
AD BUILDING MAIN ENTRY - NORTH



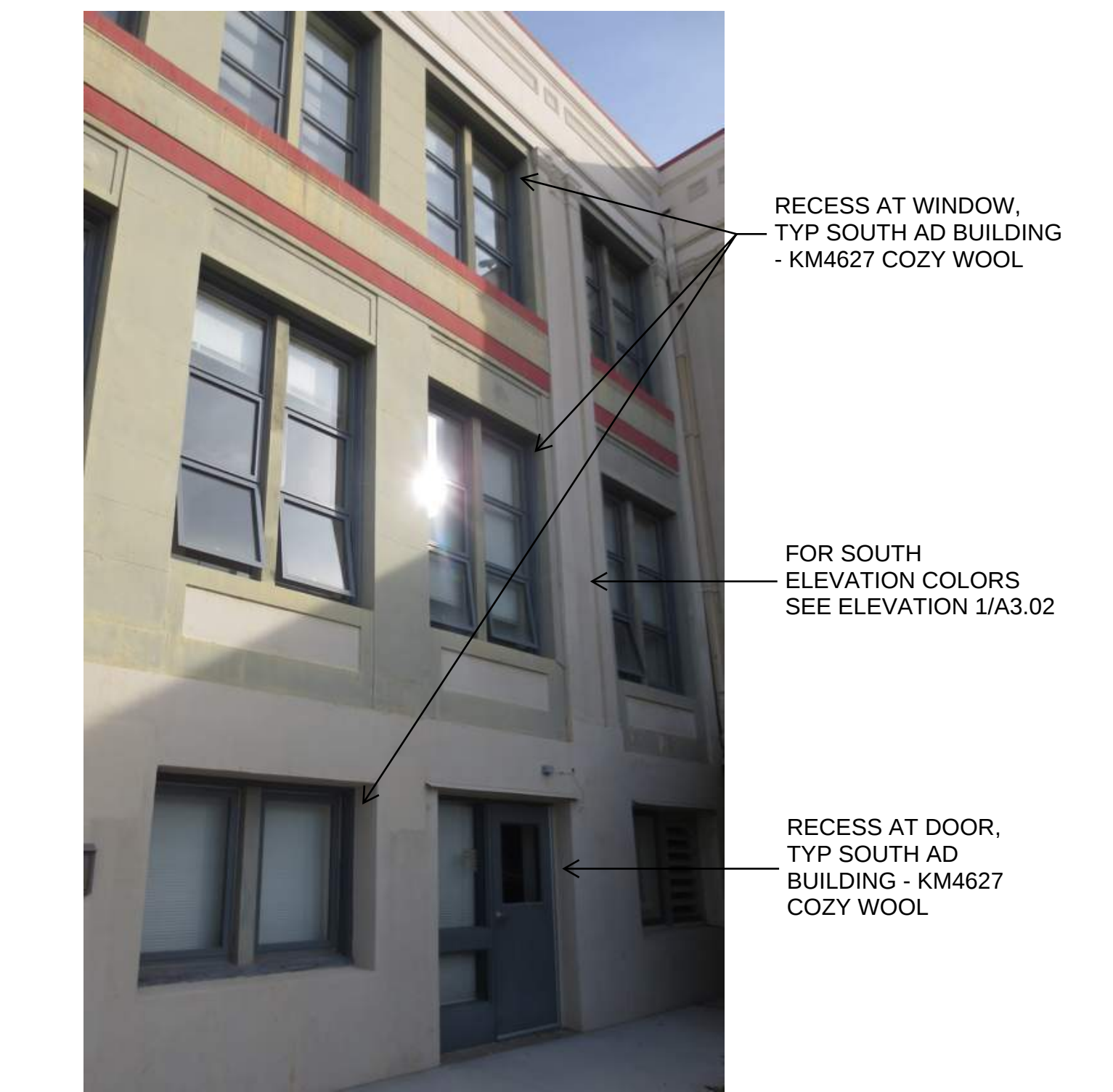
AD BUILDING MAIN ENTRY - SOUTH



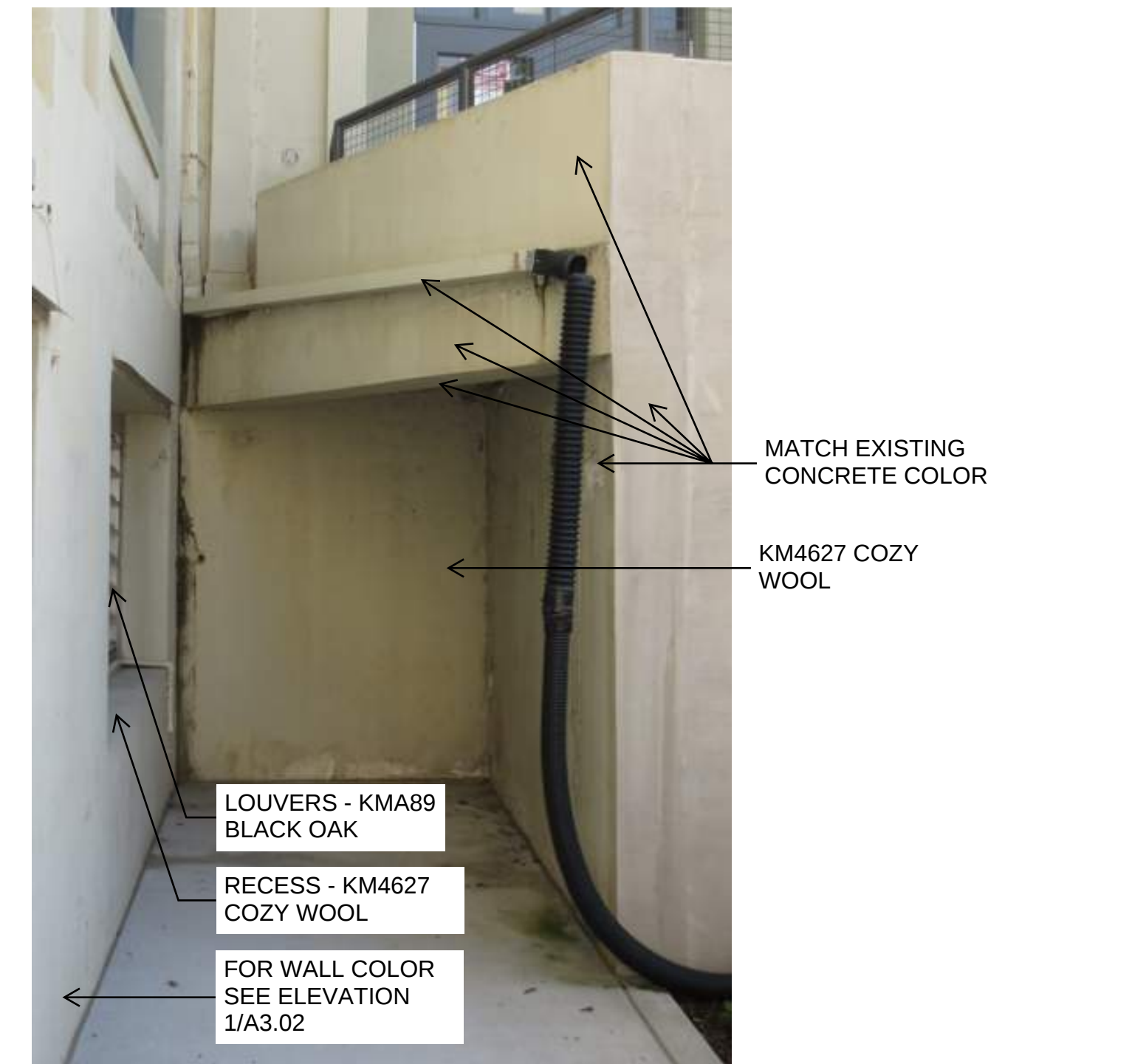
AD BUILDING MAIN ENTRY - FRONT DOORS



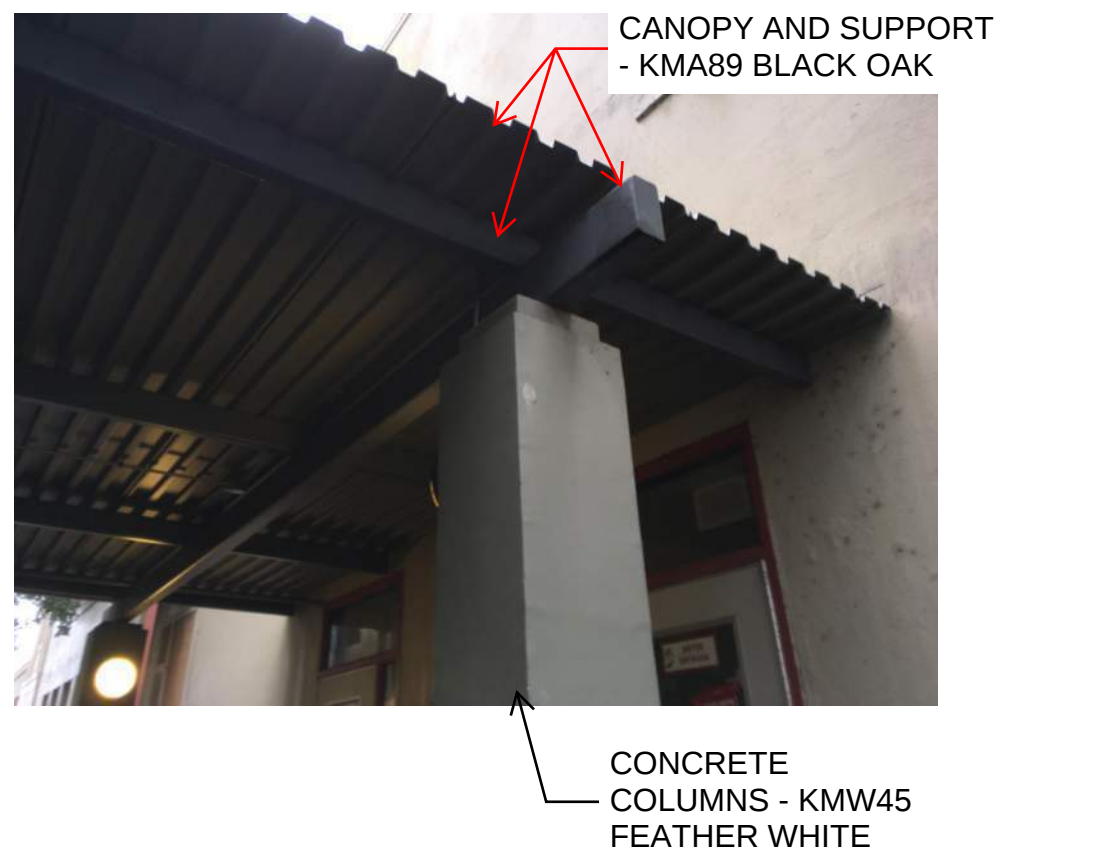
AD BUILDING LOWER LEVEL - SOUTHEAST CORNER



AD BUILDING - SOUTH WINDOW + DOOR RECESS



AD BUILDING LOWER LEVEL - SOUTHWEST CORNER



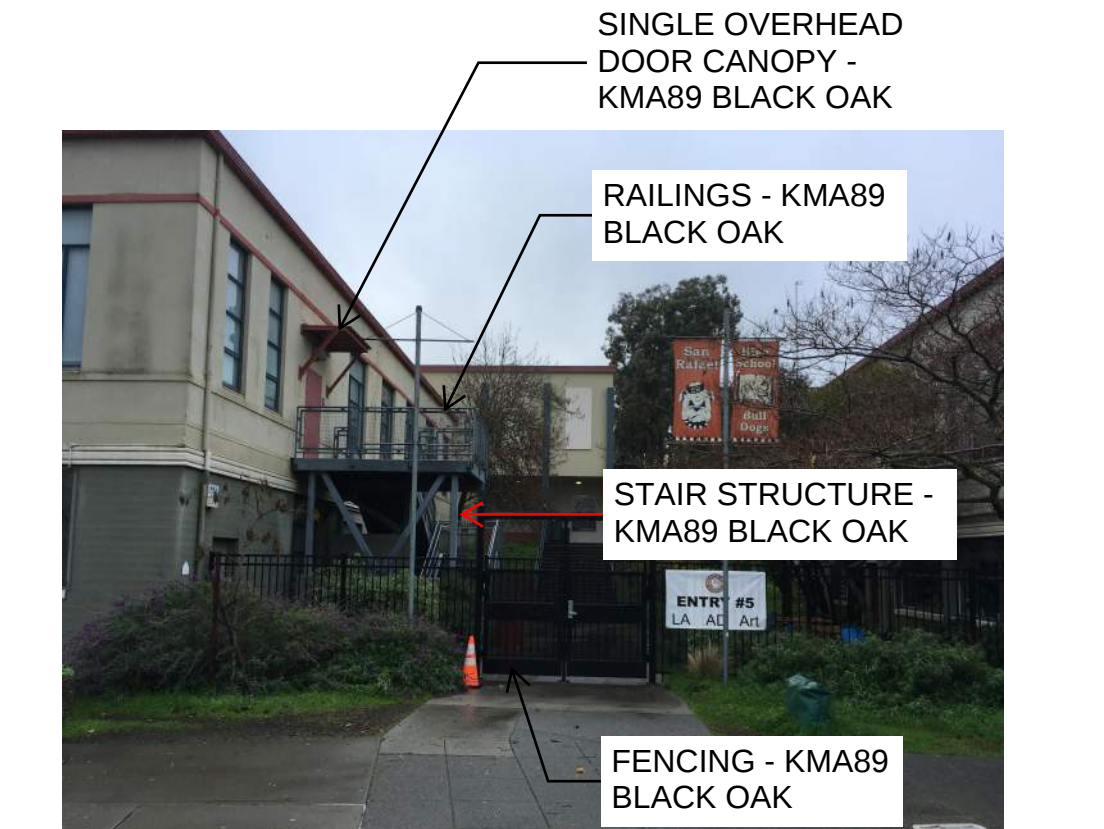
CANOPY ROOF



RAILINGS AND SCREENS



RAILINGS AND RETAINING WALL



FENCING AND STAIR STRUCTURE



DOWNSPOUTS, PIPES, AND METAL SHROUDS

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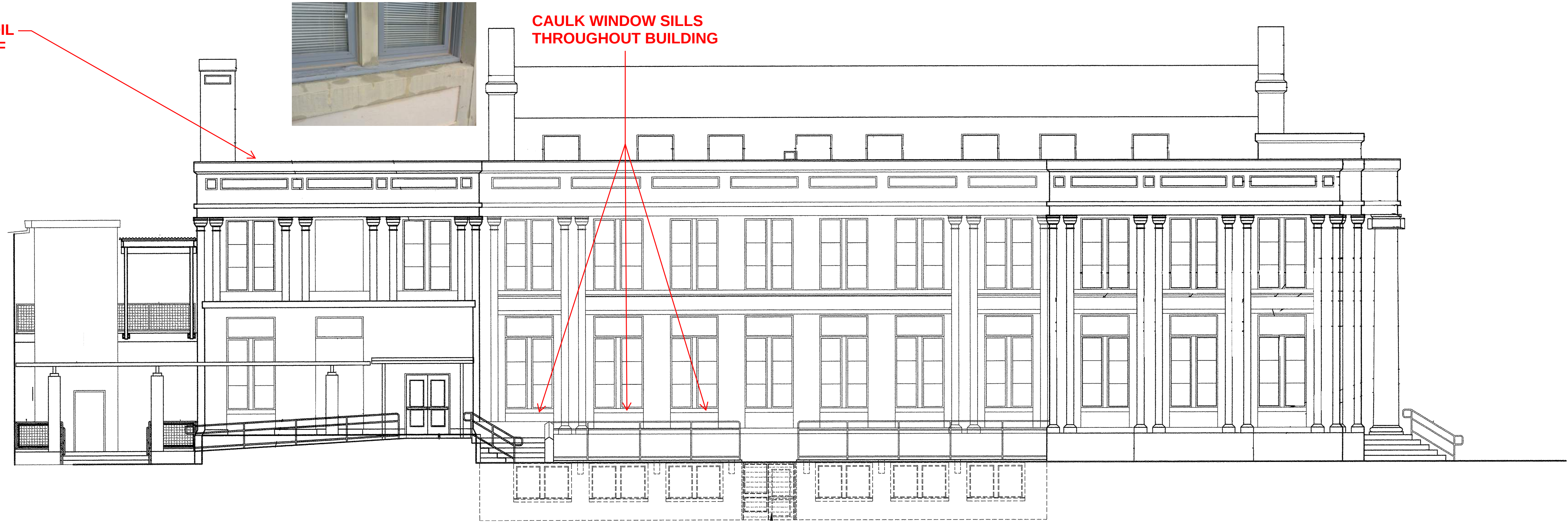
SHEET NOTE:
POWER WASH ALL SURFACE TO RECEIVE NEW PAINT. PATCH AND REPAIR ALL VOIDS, SURFACE CHIPS AND HOLES LEFT FOLLOWING REMOVAL OF EXISTING SURFACE APPLIED ITEMS. ADJUSTED SURFACES SHALL BE SMOOTH WITH ADJACENT FINISH PRIOR TO APPLICATION OF NEW PAINTED FINISH. TYP.

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REMOVE LOOSE WIRE ON BUILDING ELEVATION, COIL UP AND SECURE ON ROOF



CAULK WINDOW SILLS THROUGHOUT BUILDING



GENERAL NOTES

1. REMOVE OLD TABACOO USE SIGNS ACROSS ENTIRE CAMPUS (APPROXIMATELY 60 LOCATIONS) FILL ANCHOR HOLES



1 AD BUILDING - NORTH

1/8" = 1'-0"



REPLACE ENTIRE DOWNSPOUT, MATCH HISTORIC SCUPPER. WATERPROOF SCUPPER & FLASHING, SNAKE STORM DRAIN & RECONNECT



CORRECT PLUMBING LEAK, REPLACE HOSE BIB, PATCH STUCCO FINISH

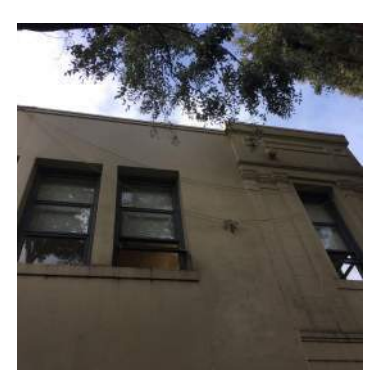


PATCH LARGE SPACE W/ GROUT & PLASTER FINISH TO MATCH EXISTING



REPLACE GRILLE FABRIC CONTAINING HOLE WITH (N) MATCHING GRILLE FABRIC

SECURE (E) LOOSE WIRING



REMOVE LOOSE ELECTRICAL WIRES RELATED TO ANTENNA, COIL UP AND SECURE ON ROOF

REPLACE ENTIRE DOWNSPOUT, MATCH HISTORIC SCUPPER. WATERPROOF SCUPPER & FLASHING, SNAKE STORM DRAIN & RECONNECT



2 AD BUILDING - EAST

1/8" = 1'-0"



REPLACE VENT SCREENS W/ PERFORATED METAL IN METAL FRAME. SEE DETAIL 1/A8.02

REPLACE BOTTOM OF DOWNSPOUT W/ RECTANGULAR TO ROUND TRANSITION PIECE



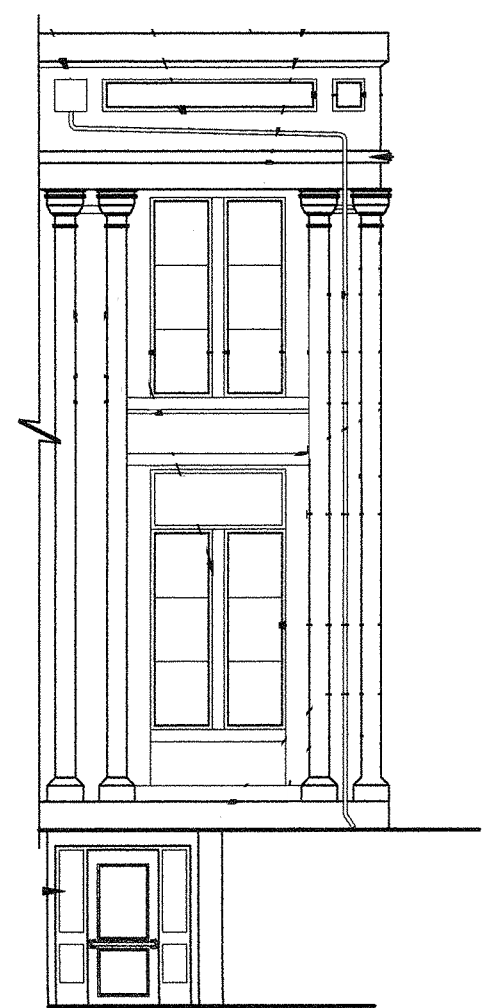
SEE DETAIL 9/A8.02

PROVIDE (N) GRILLES AT TWO MECHANICAL SHAFTS TO MATCH (E) EXPANDED METAL. PROVIDE (N) WELDED AT ALL TABS AS NEEDED. PROVIDE KEYED DOOR.



SEE DETAIL 8/A8.02

REPLACE CHAIN LINK FENCING MATERIAL AT (E) GAS SUPPLY ENCLOSURE. SUPPORT PIPES TO REMAIN. PROVIDE 1" BLACK VINYL-CLAD CHAIN LINK W/ VERTICAL PRIVACY SLATS. SEE DETAIL 10/A8.02



3 AD BUILDING - EAST 2

1/8" = 1'-0" (SOUTH SIDE SIMILIAR)



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REMOVE SPEAKER FROM J-BOX, RETURN TO DISTRICT

REPAIR BROKEN COLUMN CAPS & FRIEZE ELEMENT W/ CAST PLASTER ELEMENT MATCHING EXISTING



REMOVE LARGE PULL BOX & FILL PENETRATION BEHIND METAL CANOPY



FILL LARGE GAPS & CRACKS



PROVIDE PERFORATED METAL SCREEN IN METAL FRAME AT (E) SCREEN OPENING. SEE DETAIL 1/A8.02

1 AD BUILDING - SOUTH



REMOVE AND RETURN TO DISTRICT SECURITY CAMERA, MAIL BOX AND SAFE OFF J-BOX FOR REINSTALL



REPLACE (E) GUTTERS & DOWNSPOUTS AT LOWER ENTRIES UP TO 20' HIGH. (N) DOWNSPOUT TO DRAIN INTO PLANTING AREA



PROTECT LIGHT FIXTURES (TYP)



REPAIR BROKEN COLUMN CAPS & FRIEZE ELEMENT W/ CAST PLASTER ELEMENT MATCHING EXISTING

PROVIDE ESCUTCHEON PLATES FOR 3 ABANDONED LIGHT FIXTURES IN SOFFIT, PAINT



GRIND DOWN EXPOSED REBAR, PATCH & SMOOTH SURFACE PRIOR TO PAINTING

2 AD BUILDING - WEST

1/8" = 1'-0"

PROTECT 3 LIGHT FIXTURES



REPLACE VENT SCREEN. SEE DETAIL 1/A8.02



CORRECT PLUMBING LEAK, REPLACE HOSE BIB. PATCH STUCCO FINISH



FILL (E) PIPES W/ SPRAY FOAM, REPLACE VENT SCREENS W/ PERFORATED METAL IN METAL FRAME. SEE DETAIL 1/A8.02

3 AD BUILDING - WEST 2

1/8" = 1'-0" (NORTH SIDE SIMILIAR)

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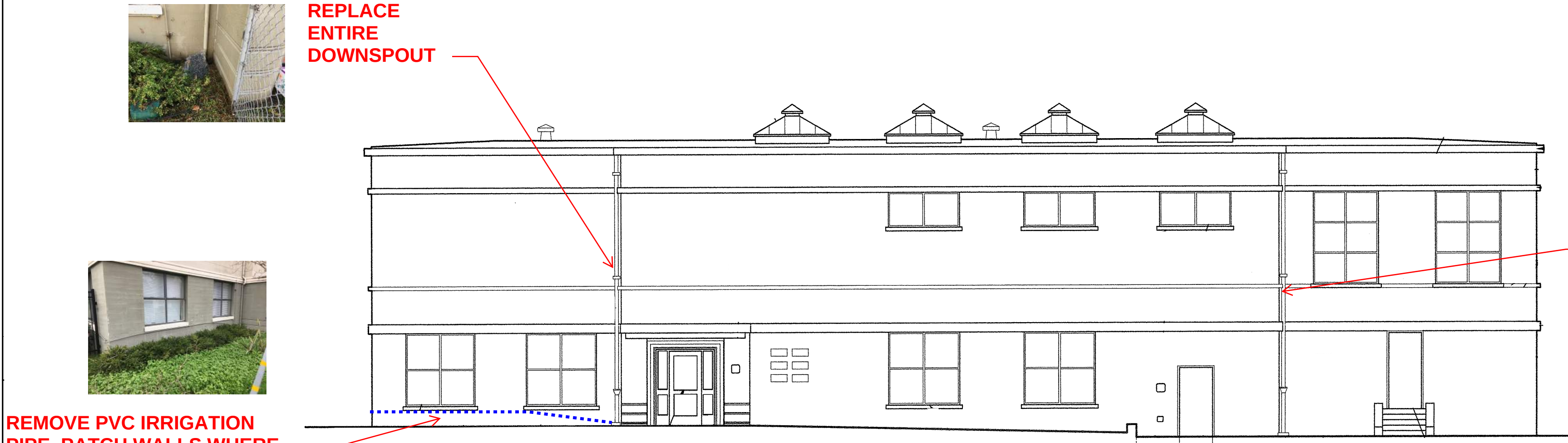
Project
SRHS PAINTING PROJECT
BID SET

Sheet Title
BUILDING AD REPAIR SCOPE

Client Project Number: Client Proj. #

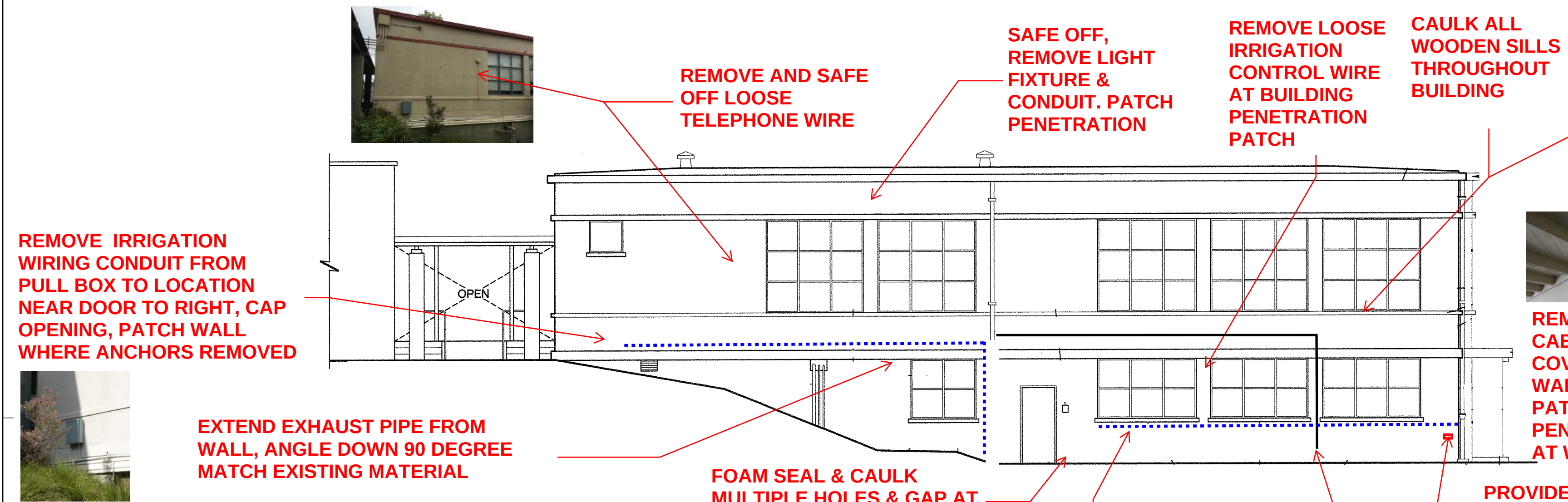
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1 AR BUILDING - NORTH

1/8" = 1'-0"



2 AR BUILDING - EAST

1/8" = 1'-0"



4 AR BUILDING - WEST

1/8" = 1'-0"



REPLACE ENTIRE DOWNSPOUT



REMOVE LOUDSPEAKER & ADDITIONAL ELECTRICAL ITEM IF ABANDONED. PROVIDE BLANK COVER PLATE



REMOVE SPANISH TILE FROM WALKWAY ALONG TWO SIDES OF BUILDING, REPAIR FASCIA & GUTTER. SEE DETAIL 20/A8.2

GENERAL NOTES



PROVIDE NEW AC PLYWOOD OVER EXISTING OPENINGS - ATTACH TO FRAMES



PROVIDE COVER PLATE ON J-BOX



REMOVE COAX CABLING UNDER COVERED WALKWAY. PATCH PENETRATIONS AT WALLS

3 AR BUILDING - SOUTH

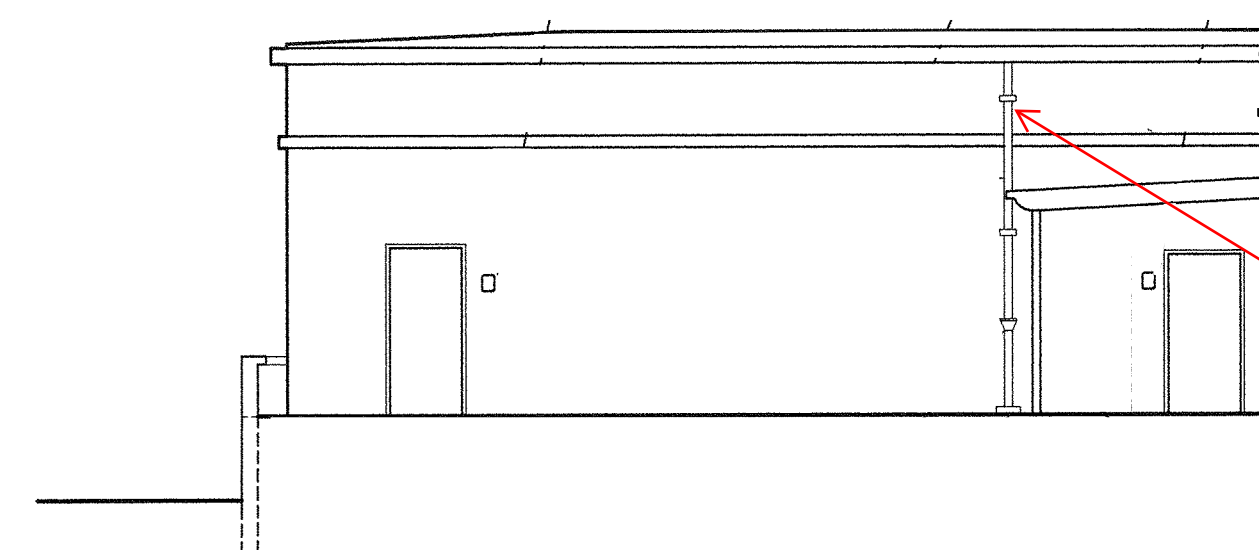
1/8" = 1'-0"



REMOVE EXISTING WOOD BENCHES & DEBRIS FROM 2 ABANDONED BOILER VENT OPENINGS. PROVIDE SHEET METAL CLOSURE & STYROFORM. TOP W/ 6" LIGHT WEIGHT CONCRETE FILL FLSH W/ CONCRETE WALK



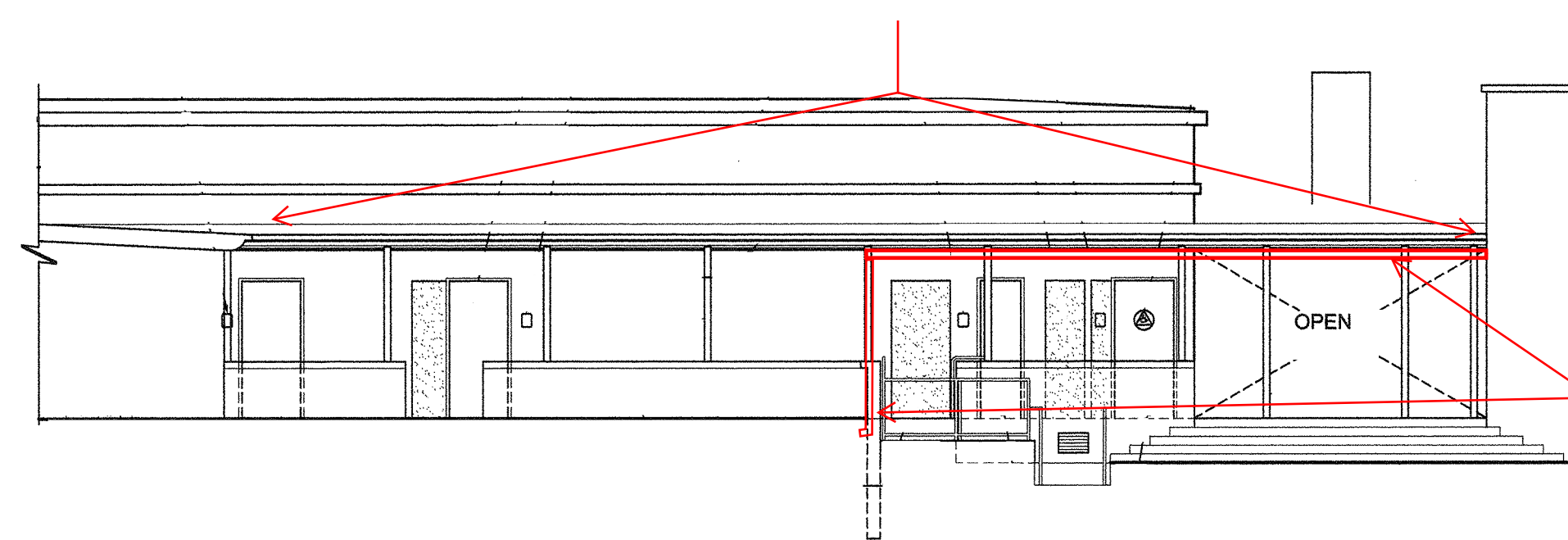
RECONNECT CONDUIT TO JUNCTION BOX AND SECURE CONDUIT FRAMING BACK TO BUILDING WALL, PROVIDE CAPS / COVER TO LB



5 AR BUILDING - EAST 2

1/8" = 1'-0"

REMOVE SPANISH TILE, PATCH WOOD FASCIA, SEE DETAIL 20/A8.2



6 AR BUILDING - WEST 2

1/8" = 1'-0"

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GENERAL NOTES



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1 LA BUILDING - NORTH

1/8" = 1'-0"



PROVIDE (N) COVER FOR LIGHT FIXTURE AT OVERHANG

3 LA BUILDING - EAST

1/8" = 1'-0"

PROVIDE SHEET METAL SHROUDS TO COVER EXPOSED CONDUIT AT TWO LOCATIONS. PROVIDE ACCESS TO J-BOXES. SEE DETAIL 19/A8.2



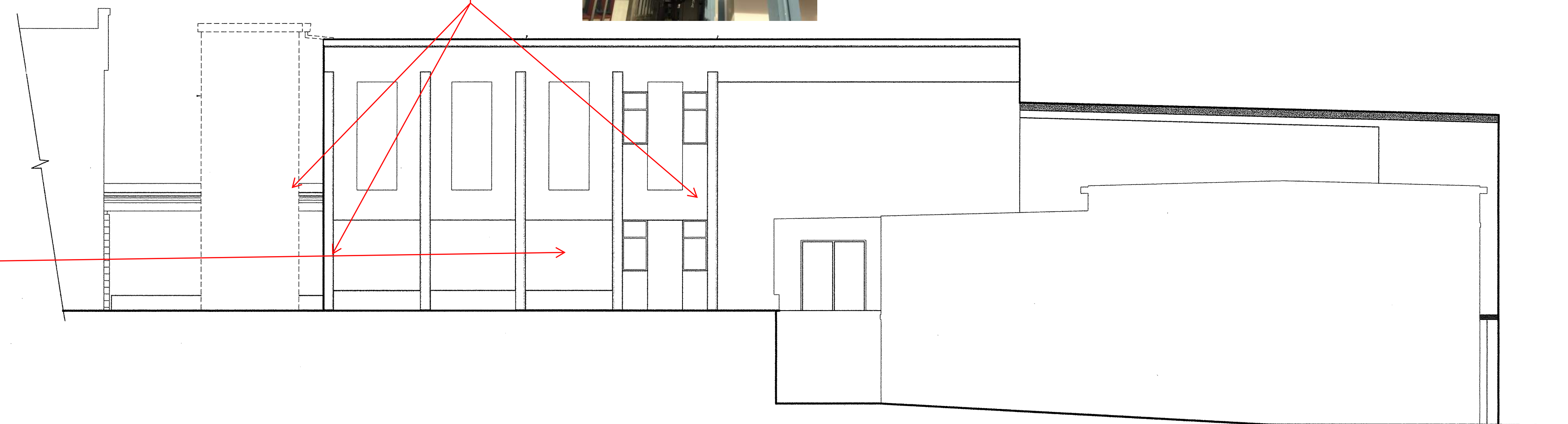
SCRAPE & PAINT RUSTED PIPES AT WALL & CANOPIES



REMOVE TACKBOARD

4 LA BUILDING - SOUTH

1/8" = 1'-0"



5 LA BUILDING - WEST

1/8" = 1'-0"



REMOVE ANTENNA. PATCH HOLE IN WALL



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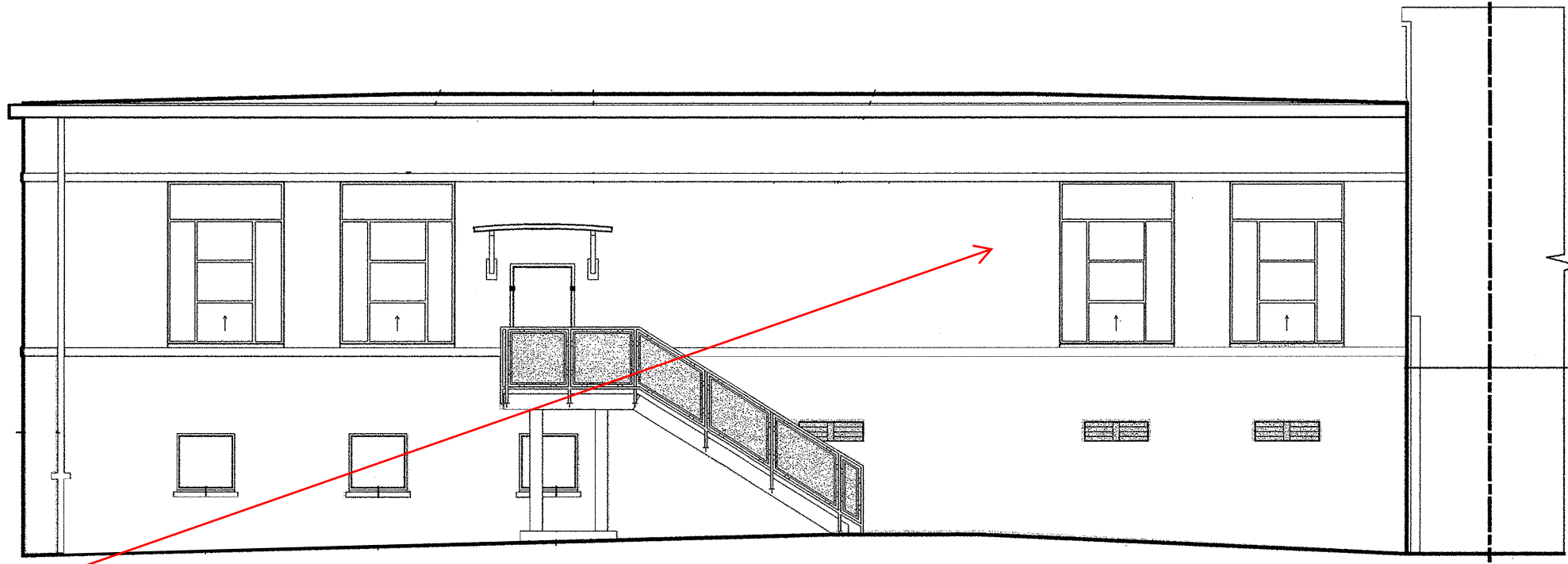
GENERAL NOTES



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STRAIGHTEN
& SECURE
LIGHT FIXTURE

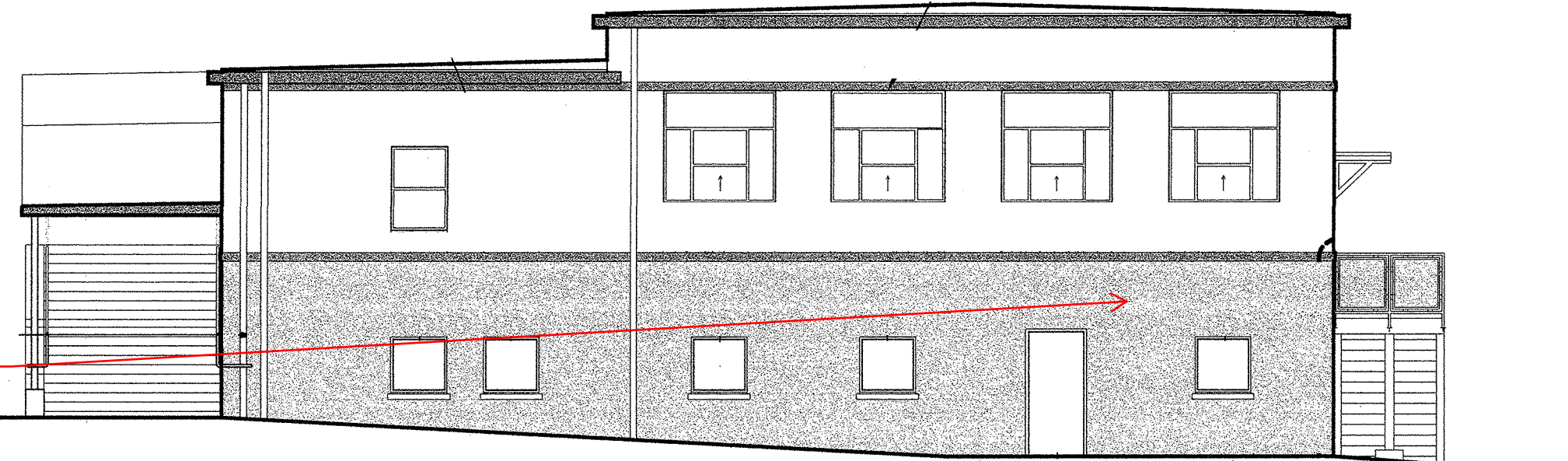


1 MU BUILDING - EAST

1/8" = 1'-0"



SAFE OFF &
REMOVE
DANGLING
WIRE IN
COVERED
WALKWAY &
COIL AT
BUILDING
PENETRATION,
PATCH

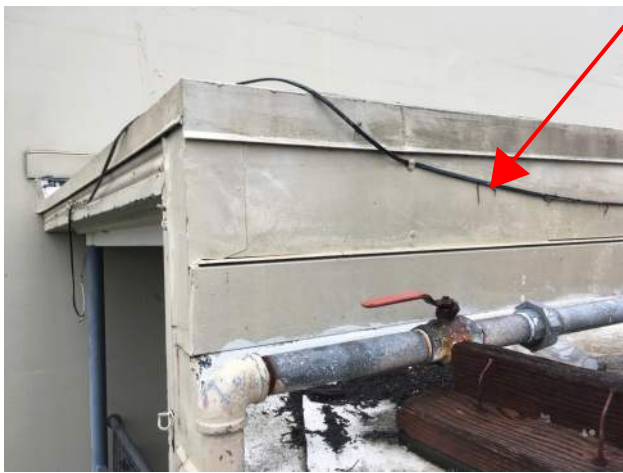


2 MU BUILDING - SOUTH

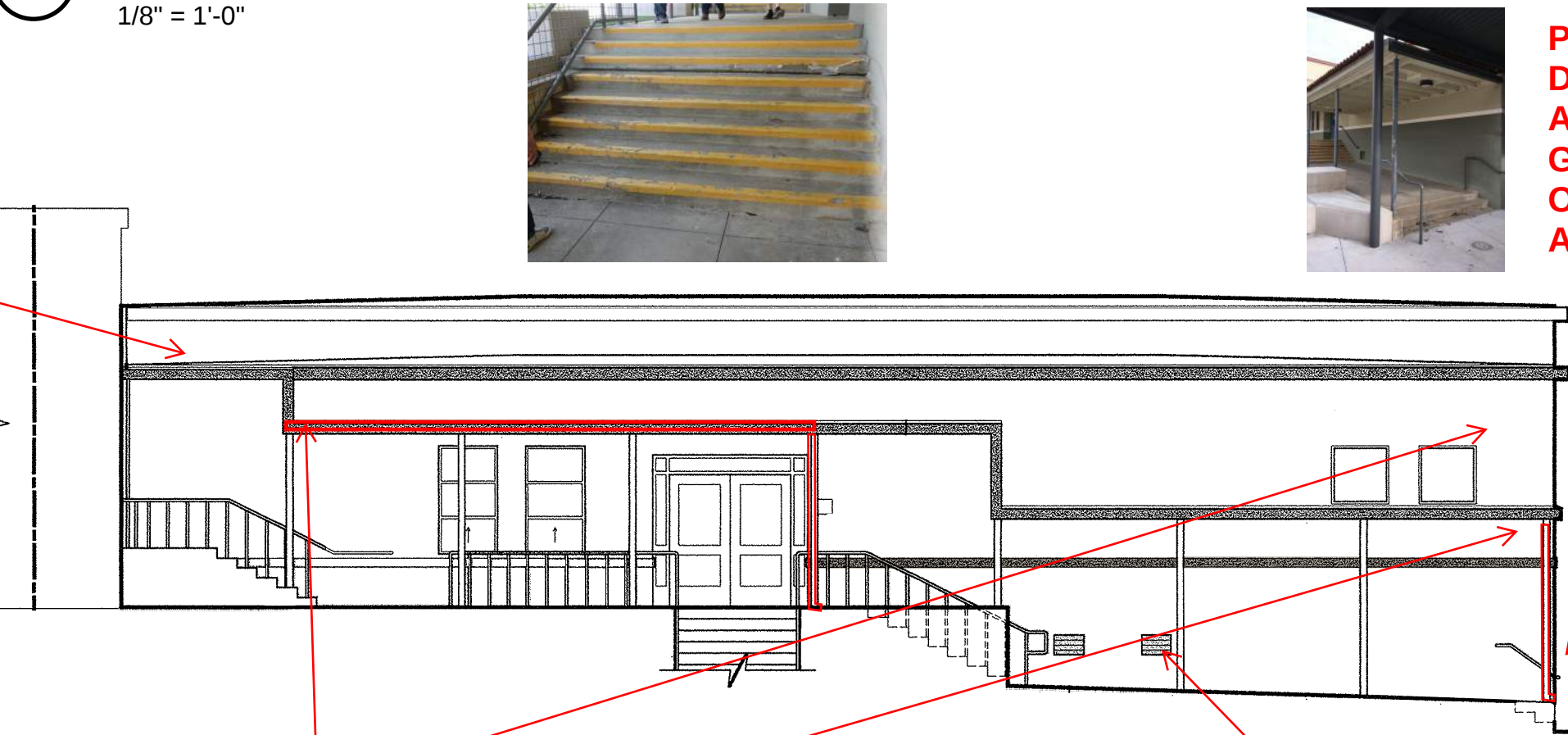
1/8" = 1'-0"



SAFE OFF & REMOVE
ELECTRICAL WIRING &
LOW VOLTAGE WIRING



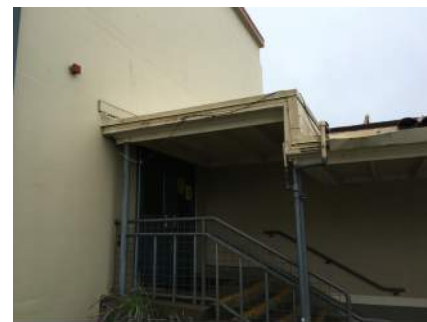
CUT DANGLING
ELECTRICAL WIRE &
COIL AND SECURE
ON ROOF



3 MU BUILDING - WEST

1/8" = 1'-0"

REMOVE SPANISH TILE & WOOD
BLOCKING FROM ROOF. PROVIDE
(N), EXTENDED GUTTER W/
DOWNSPOUT AT POST, DRAIN INTO
ARTIFICIAL TURF. SEE DETAIL
20/A8.02



COVER 2 (E)
GRILLES W/
PERFORATED
METAL SCREEN
W/METAL FRAME.
SEE DETAIL
20/A8.02



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BUILDING MU REPAIR SCOPE

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A3.15

GENERAL NOTES



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1 PE BUILDING - NORTH 1
1/8" = 1'-0"

2 PE BUILDING - NORTH 2
1/8" = 1'-0"

3 PE BUILDING - NORTH 3
1/8" = 1'-0"

4 PE BUILDING - EAST
1/8" = 1'-0"

5 PE BUILDING - EAST (POOL)
1/8" = 1'-0"

REPLACE
DOWNSPOUT,
PRESERVE
ORIGINAL
HISTORIC
SCUPPER

REMOVE LOW
VOLTAGE
DEVICE &
LOSSE
WIRING.
PATCH WALL

REMOVE 4
ABANDONED LIGHT
FIXTURES CONDUIT,
INCLUDING CORNER
FIXTURE, SAFE OFF,
FILL/ PATCH
CONCRETE SURFACE

EXTEND BASE OF
2 DOWNSPOUTS
TO DRAIN

REPLACE
RUSTED
CONNECTION OF
DOWNSPOUT TO
GUTTER

REMOVE ABANDONED
CONDUIT

REMOVE
ABANDONED
DOOR STOPS
PATCH
SURFACE

RUST PRIME DIAPHARM
ANCHORS - ENTIRE NORTH GYM
PORTION OF BUILDING
(APPROXIMATELY 50 LOCATIONS)

PROVIDE (N)
PERFORATED
METAL SCREEN
INSIDE (E) SQUARE
RECESS. SEE
DETAIL 6/A8.02

(E) METAL
CHIN-UP BARS
PROTECT IN
PLACE

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BUILDING PE REPAIR SCOPE

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GENERAL NOTES



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1 PE BUILDING - SOUTH
1/8" = 1'-0"

PAINT & CAULK WOOD STRIP AT SERVING WINDOW



EXTEND DOWNSPOUT AND KICK OUT AT BASE



2 PE BUILDING - SOUTH 2
1/8" = 1'-0"



REMOVE ALL MOUNTED SIGNAGE EXCEPT BRONZE PLAQUES ON WALLS SURROUNDING POOL & DELIVER TO OWNER. FILL ALL REMOVED FASTENER HOLES

REMOVE AND REINSTALL 2 BRONZE PLAQUES & MISCELLANEOUS SIGNAGE AFTER PAINTING WALL



PROTECT MURAL PAINTED ON THE BUILDING



REMOVE SECURITY CAMERA, PROVIDE BLANK COVER PLATE AND ELECTRICAL BOX. WIRE TO REMAIN IN BOX

3 PE BUILDING - WEST (POOL)
1/8" = 1'-0"

EXTEND DOWNSPOUT, DRAIN TO GRADE



REMOVE CONDUIT, SAFE OFF WIRE IN LOW-VOLTAGE BOX



PATCH SPALLING CONCRETE AT LIGHT FIXTURE

4 PE BUILDING - WEST
1/8" = 1'-0"

REMOVE FAILING GROUT AT FOUNDATION ALONG THIS LINE. RE-GROUT & PROVIDE SEALANT AT BUILDING WALL

REPLACE EXISTING DOORS & FRAMES - MATCH EXISTING HARDWARE

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SRHS PAINTING PROJECT
BID SET

Sheet Title
BUILDING PE REPAIR SCOPE

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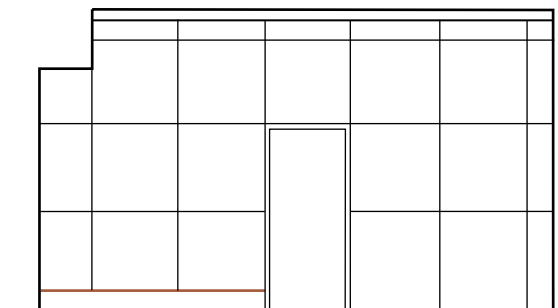
A3.17

GENERAL NOTES

1 SC BUILDING - NORTH
1/8" = 1'-0"

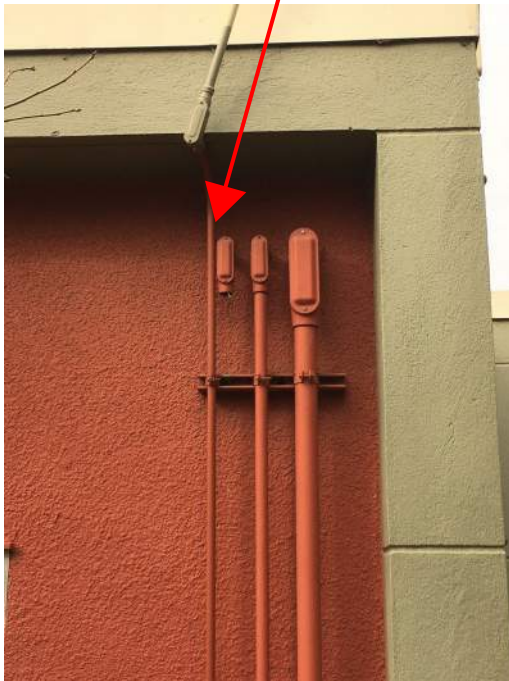


REROUTE DOWNSPOUT FROM (E) SCUPPER TO LEFT OF WINDOW TO GRADE AND AREA DRAIN TO AVOID ELECTRICAL EQUIPMENT



SC BUILDING - SOUTH

2 SC BUILDING - EAST
1/8" = 1'-0"



REMOVE ABANDONED CONDUIT, PATCH HOLE



REMOVE & DANGLING WIRE, CAULK PENETRATION

3 SC BUILDING - SOUTH
1/8" = 1'-0"

REMOVE 2 (E) LIGHT FIXTURES, INSTALL (N) FIXTURES TO BE PROVIDED BY OWNER

4 SC BUILDING - WEST
1/8" = 1'-0"

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BUILDING SC REPAIR SCOPE

Client Project Number: Client Proj. #

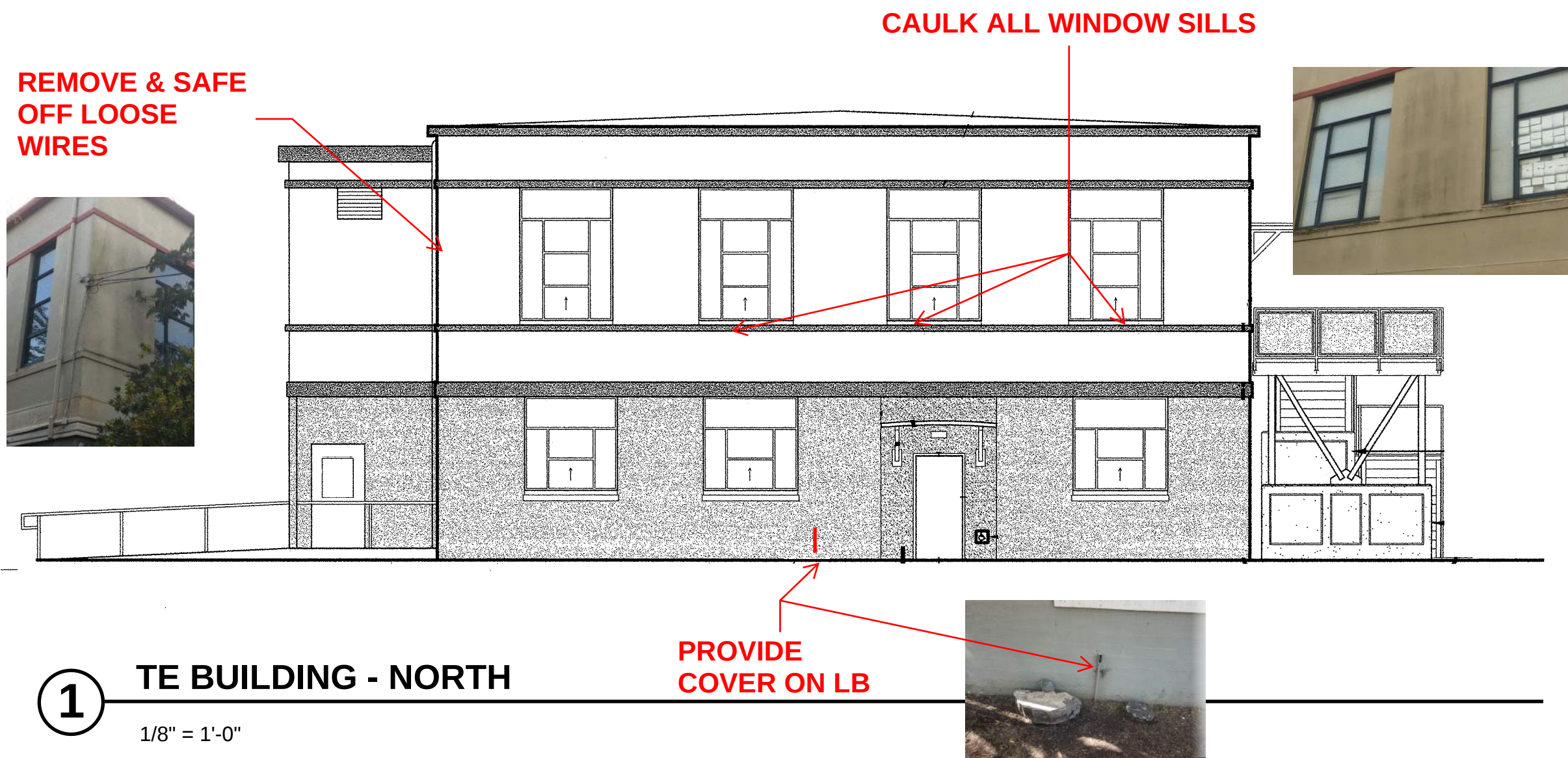
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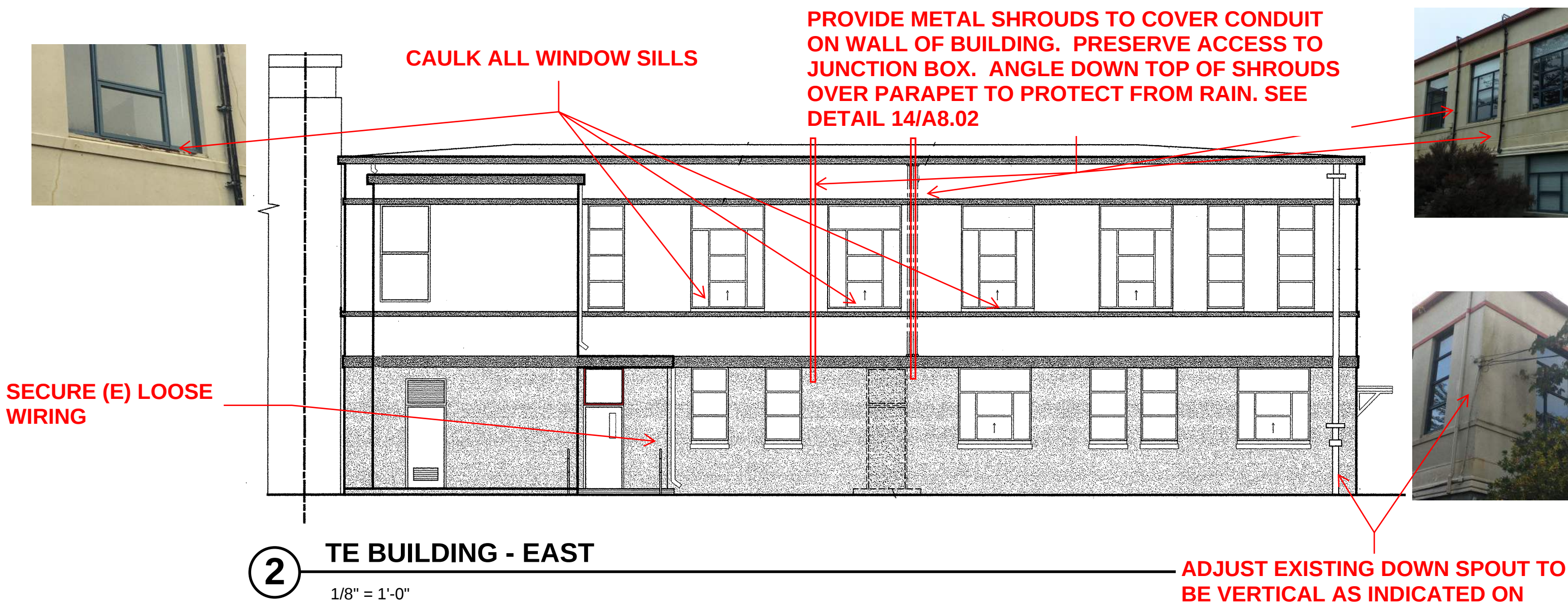
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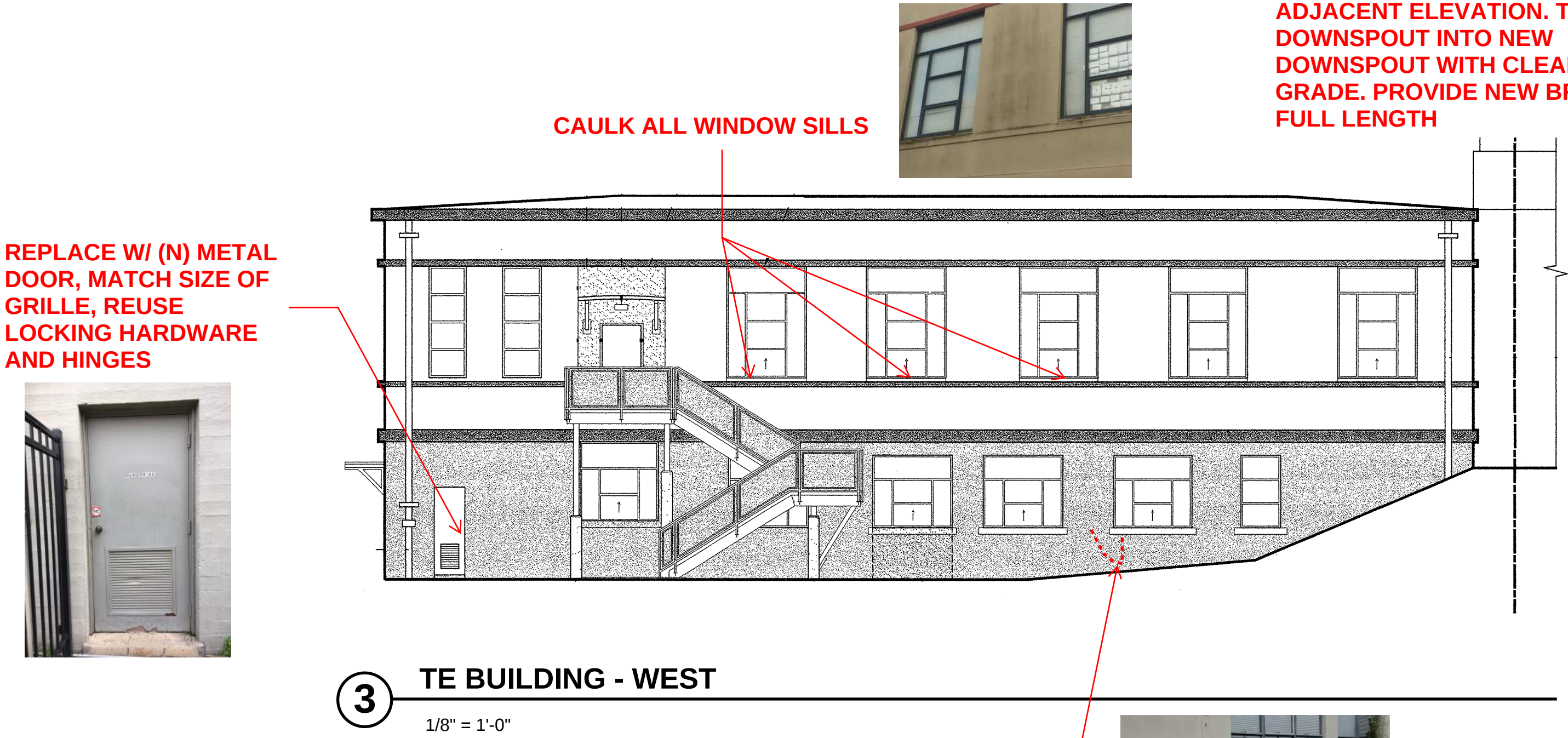
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1 TE BUILDING - NORTH
1/8" = 1'-0"



2 TE BUILDING - EAST
1/8" = 1'-0"



3 TE BUILDING - WEST
1/8" = 1'-0"

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Architect/Engineer Of Record: _____



HY Architects Project number: 5775

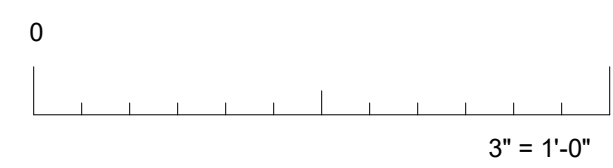
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150 3RD STREET, SAN RAFAEL, CA 94901

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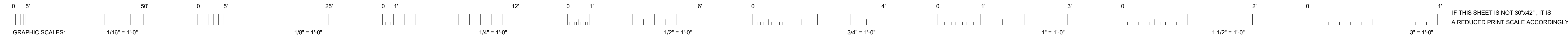
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SECTION 01 73 29
Cutting and Patching

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Requirements and limitations for cutting and patching of Work.

1.2 SUBMITTALS

A. Submit written request in advance of cutting or alteration which affects:

1. Structural integrity of any element of Project.

2. Integrity of weather-exposed or moisture-resistant element.

3. Efficiency, maintenance, or safety of any operational element.

4. Visual qualities of sight-exposed elements.

5. Work of San Rafael City Schools or separate contractor.

B. Include in request:

1. Identification of Project.

2. Location and description of affected Work.

3. Necessity for cutting or alteration.

4. Description of proposed Work, and Products to be used.

5. Alternatives to cutting and patching.

6. Effect on Work of San Rafael City Schools or separate contractor.

7. Written permission of affected separate contractor.

8. Date and time Work will be executed.

1.3 DESIGN CRITERIA

A. Patching shall achieve security, strength, and weather protection, as applicable, and shall preserve continuity of existing fire ratings.

B. Patching shall successfully duplicate undisturbed adjacent finishes, colors, textures, and profiles. Where there is dispute as to whether duplication is successful or has been achieved to a reasonable degree, the Architect's judgment shall be final.

1.4 CUTTING AND PATCHING

A. Structural Work: Do not cut-and-patch structural Work in a manner resulting in a reduction of load carrying capacity or load/deflection ration. Submit proposal and request and obtain Engineer's approval before proceeding with cut-and-patch of new and/or existing structural Work.

B. Operational/Safety Limitations: Do not cut-and-patch operational elements and safety components in a manner resulting in reduction of fire rating of any assembly, decreased performance, shortened useful life, or increased maintenance. The Contractor shall be responsible for the location of all existing utilities and coordinate all Work to avoid any interruption of service to adjacent properties and/or to other facility operations without proper notification.

C. Visual/Quality Limitations: Do not cut-and-patch Work exposed to view, such as plaster, in a manner resulting in noticeable reduction of visual qualities and similar qualities, as judged by Architect.

D. Limitation on Approvals: Architect's approval to proceed with cutting-and-patching does not waive right to later require removal/replacement of Work found to be cut and patched in an unsatisfactory manner, as judged by Architect

PAYMENT FOR INCURRED COSTS

The costs caused by ill-timed or defective Work, or Work not conforming to Contract Documents, including costs for additional service of Architect, shall be paid by the party responsible for ill-timed, rejected or non-conforming Work.

PART 2 - PRODUCTS

2.1 MATERIAL

A. Primary Products: Those required for original installation.

B. Existing Materials: Use materials identical to existing materials. If identical materials are unavailable or cannot be used, use materials that visually match the original.

C. Lightweight Concrete Infill: Quick Crete Products Corp. P.O. Box 639 Narco, CA 92860. (951)737-6240 (main office), (951) 737-7032 (fax) www.quickcrete.com

a. Proportion mixes by either testing agency trial batch or field test data methods in accordance with ACI 211.1, using materials to be used on the project, to provide lightweight concrete with properties as follows:

1. Compressive Strength: 2,500 PSF when tested in accordance with ASTM 213R.

2. Maximum water cement ratio 0.47 at point of placement.

3. Add air-entrainment admixture to result in air content at point of placement complying with ACI 533 requirements.

PART 3 - EXECUTION

3.1 GENERAL

A. Execute cutting, fitting, and patching to complete Work, and to:

1. Fit the several parts together, to integrate with other Work.

2. Uncover work to install ill-timed Work.

3. Remove and replace defective and non-conforming Work.

3.2 EXAMINATION

A. Inspect existing conditions prior to commencing Work, including elements subject to damage or movement during cutting and patching. Verify compatibility with and suitability of substrates and finishes to accept the new Work.

B. After uncovering existing Work, inspect conditions affecting performance of Work.

C. Do not cut and patch any piping, conduit, or equipment supports or related components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.

D. Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in the Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

E. Beginning of cutting or patching means acceptance of existing conditions.

3.3 PREPARATION

A. Provide temporary supports to ensure structural integrity of the Work. Provide devices and methods to protect other portions of Project from damage.

B. Provide protection from elements for areas which may be exposed by uncovering Work.

C. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

D. Existing Services: Where existing services are required to be removed, relocated, or abandoned, bypass such services before cutting to avoid interruption of services to occupied areas.

3.4 CUTTING AND PATCHING

A. Execute cutting, fitting, and patching to complete Work.

B. Fit products together, to integrate with other Work.

C. Uncover work to install ill-timed Work.

D. Remove and replace defective or non-conforming Work.

E. Remove samples of installed Work for testing when requested.

F. Provide openings in the Work for penetration of mechanical and electrical Work.

G. Cut rigid materials using saw or drill. Pneumatic tools are not allowed without prior approval.

3.5 PERFORMANCE

A. Execute Work by methods to avoid damage to other Work, and which will provide appropriate surfaces to receive patching and finishing.

B. Employ skilled and experienced installer to perform cutting and patching.

C. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.

D. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load deflection ratio.

E. Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.

F. Restore work with new products in accordance with requirements of Contract Documents.

G. Fit Work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal all voids with fire-rated material, to full thickness of the penetrated element.

I. Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.

END OF SECTION

SECTION 02 05 00
Common Work Results For Existing Conditions

PART 1 - GENERAL

A. SUMMARY

1. Provide selective demolition of exterior finishes as needed to complete maintenance repairs and/or replacements.

2. Protect portions of building, site, and adjacent structures affected by demolition operations.

a. Protect from damage existing construction to remain

b. Contractor shall patch and repair any existing construction to remain that is damaged by selective demolition work at no cost to San Rafael City Schools.

3. San Rafael City Schools will occupy portions of the building directly adjacent to areas of selective demolition. Contractor shall conduct selective demolition work in a manner that will minimize disruption of San Rafael City Schools normal operations

B. Provide a minimum of 72 hours advance notice to San Rafael City Schools of selective demolition work or utility shutdowns that will affect San Rafael City Schools normal operations.

C. Coordinate work with Maintenance and Operations about capping or closure of existing utilities.

D. Remove abandoned mechanical and electrical systems; cap or terminate at accessible locations.

E. Provide temporary protection for the public from demolition operations.

F. Ensure minimum interference with roads, streets, driveways, sidewalks, campus pathways, and adjacent facilities.

G. Provide pollution control during demolition operations.

H. Provide removal and legal disposal of materials.

1.2 SUBMITTALS:

A. Submit selective demolition schedule. Include methods for protecting adjacent work and location of temporary partitions.

B. Submit proposed duration of: Noise producing work; utility shut-downs; and hazardous material abatement work, if applicable.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

3.1 SELECTIVE DEMOLITION

A. Survey existing conditions and correlate with Drawings and specifications to verify extent of demolition required.

B. Do not damage building elements and improvements indicated to remain.

C. Examine conditions at site to verify that demolition methods proposed for use will not endanger existing structures by overloading, failure, or unplanned collapse.

D. If known or suspected hazardous materials are encountered during operations, stop operations immediately and notify San Rafael City Schools.

E. Do not close or obstruct streets, walkways, driveways or other occupied or used spaces or facilities without the written permission of San Rafael City Schools and authorities having jurisdiction. Do not interrupt utilities serving occupied or used facilities without the written permission of San Rafael City Schools and authorities having jurisdiction. If necessary, provide temporary utilities.

F. Cease operations if public safety or remaining structures are endangered. Perform temporary corrective measures until operations can be continued properly.

G. Perform demolition operations so as to prevent dust and pollutant hazards. Provide chutes as required to control dust and debris.

H. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.

3.2 SCHEDULE

A. Items to remain in place and protected for reuse: As indicated in drawings.

B. Items to be salvaged for reinstallation in this project: As indicated in drawings.

C. Items to be salvaged and delivered to San Rafael City Schools: As indicated in drawings.

D. Utilities requiring interruption, capping, or removal.

END OF SECTION

SECTION 05 50 00
Metal Fabrications

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. All items of miscellaneous metal and related accessories and fasteners, including but not necessarily limited to the following:

1. Steel guardrail panels.

2. Continuous inserts for pipe and conduit supports.

3. Backing and mounting plates for conduit shrouds.

4. Metal grating with frames and ledger angles.

5. Flashing, shroud enclosure and caps, and conduit covers.

6. Fence enclosures including post and chain link fence.

1.2 REFERENCES

A. Published specifications:

1. California Building Code (CBC) and amendments.

2. American Welding Society's "Structural Welding Code" (AWS D1.1).

1.3 QUALITY ASSURANCE

A. Welded Qualifications: Welders shall be qualified in accordance with AWS D1.1.(2007)

1.4 SUBMITTALS

A. Manufacturer's literature describing products including details and dimensions.

B. Shop Drawings:

1. Show a large scale construction of various parts, methods of joining, thickness of metals, profiles of surfaces, reinforcing, anchorage, and structural supports. Include information regarding concealed and exposed joints, welds, and fastenings.

2. Where welded connectors and concrete inserts are required to receive Work, show size and locations required.

C. Samples: Provide samples of each type of guardrail panel, mesh, grating, gutter, downspout, shroud, and other fabricated metal, to be approved by Architect.

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver, store, and handle packaged materials in original containers with seals unbroken and labels intact until time of use.

B. Discharge materials carefully and store on clean concrete surface or raised platform in safe, dry area.

1.6 JOB CONDITIONS

A. Scheduling, Sequencing:

1. Ensure timely fabrication of items to be embedded or enclosed by other Work.

2. Furnish information and assistance required for locating embedded items and be responsible for proper locations.

PART 2 - PRODUCTS

2.1 BASIC MATERIALS AND ACCESSORIES

A. Ferrous Metals:

1. Steel Plate: ASTM A36.

2. Welding Electrodes: E-70XX.

3. Grout: Embeco "636" or approved equal.

4. Grating: Irving, Reliance or approved equal typical 1" x 3/16" beaming bars at 1-3/6" centers with 1/4" twisted cross bars welded at 4" centers, galvanized with bolted anchorage.

5. Other fabrications where indicated to match existing conditions.

B. Fastenings:

1. Typical Unfinished Bolts, Nuts, and Washers: Low carbon steel standard fasteners, externally and internally threaded, ASTM A307 Grade A; malleable washers.

2. Expansion Bolts: Hilti's "Kwik-Bolt III Wedge Anchors"; Wej-It Expansion Products, Inc.'s "Original Wej-It Wedge Anchors"; or approved equal.

C. Primer: Zinc-chromate type. Same as manufactured by Fuller-O'Brien Corp.; The Glidden Co.; Sinclair Paint Co.; or approved equal.

2.2 SPECIALTY FABRICATED PRODUCTS

A. Preparation:

1. Coordinate with other Work supporting or adjoining miscellaneous metal and verify requirements of cutting out, fitting, and attaching.

2. Verify sizes, designs, and locations of items; do so at site whenever construction progress permits.

B. General Requirements:

1. Fabricate items from materials noted and make true to profiles shown. Obtain the Architect's approval of proposed variations.

2. Miter corners and angles of frames and moldings unless otherwise noted.

3. Perform cutting, shearing, drilling, punching, threading, tapping as required for items or their adjacent Work.

4. Drill or punch holes; do not use cutting torch.

5. Ensure shearing and punching leaves true lines and surfaces.

5. Items to be Galvanized: Fabricate in accordance with recommended practices of ASTM A385 unless specifically noted otherwise.

7. Fabricate exterior items for assembly and installation on site without field-welding of joint.

8. Ensure metal thickness and assembly details provide ample strength and stiffness.

9. Size sleeves for approximately 1/4" clearance all around.

C. Fastening:

1. Provide fasteners and anchor assemblies required for complete fabrication, field assembly, and erection.

2. Size internally threaded diameters to accommodate galvanized threaded bolts where galvanizing is required.

3. Permanent Connections in Ferrous Metal Items: Employ welding wherever practicable; avoid bolts and screws.

D. Welding:

1. Use electric shielded-arc process according to AWS D1.1.

2. Maintain shape and profile of item welded.

3. Prevent heat blisters, run-throughs, and surface distortions.

4. Welds Normally Exposed to View in Finished Work: Make uniform and grind smooth.

5. Exposed Welds: Remove burrs, flux, welding oxide, air spots and discoloration; grind smooth, polish, or otherwise finish to match material welded.

E. Bolted and Screwed Connections:

1. Use bolts for field connections only, and then only as noted. Countersink heads; finish smooth and flush:

a. Provide washers under heads and nuts bearing on wood.

b. Draw nuts tight and prevent loosening of permanent connections by nicking threads.

c. Use beveled washers where bearing is on sloped surfaces.

2. Where necessary to use screws for permanent connections in ferrous metal, use flat head type, countersink, fill screw slots, and finish smooth and flush.

3. Evenly space exposed heads.

2.3 FINISHES

A. Preparations of Surfaces:

1. Thoroughly clean mill scale, rust, dirt, grease, and other foreign matter from ferrous metal prior to painting.

2. Hardware Including Fasteners (Bolts, Nuts, Washers, Etc.):

a. Finish to match items fastened.

END OF SECTION

SECTION 07 62 00
Sheet Metal Flashing and Trim

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Parapet and cap flashings.

B. Fascias, gutters, and scuppers.

C. Counterflashings at piping penetrations, vent pipes, and conduits.

D. Manufactured reglets.

1.2 REFERENCES

Contractor's work shall comply with the following standards as applicable.

Manufactured items are to be fabricated to these same standards.

The following standards (and publications) are applicable to the extent referenced in the text. The most recent of these standards is implied, unless otherwise stated.

A. ASTM A755 - Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products.

B. ASTM B32 - Standard Specification for Solder Metal.

1.3 QUALITY ASSURANCE

A. Applicator: Company specializing in sheet metal flashing Work with five years minimum experience.

B. Perform Work in accordance with SMACNA standard details and requirements.

1.4 SUBMITTALS

A. Submit Shop Drawings of sheet metal items indicating profiles, jointing, terminations, sill pans and installation details. Indicate type and spacing of fasteners.

B. Submit two 4" square Samples illustrating metal finish color when pre-coated or where required to match existing conditions.

1.5 STORAGE AND HANDLING

A. Stack preformed material to prevent twisting, bending, or abrasion, and to provide ventilation.

B. Prevent contact with materials during storage which may cause discoloration, staining, or damage.

1.6 WARRANTY

A. Provide manufacturer's 20-year warranty against defective materials and finish.

B. Provide installer's 2-year warranty coverage for water tightness and integrity of seals.

PART 2 - PRODUCTS

2.1 SHEET MATERIALS

A. Galvanized Steel: ASTM A653, Grade 33, G90 zinc coating in accordance with ASTM A924, 0.0299" thick core steel.

2.2 ACCESSORIES

A. Fastener: Galvanized steel or stainless steel with soft neoprene washers at exposed fasteners. Finish exposed fasteners shall match pre-coated metal where occurs

B. Metal Primer: As specified in Section 09 91 00.

C. Protective Backing Paint: Zinc chromate alkyd.

D. Sealant: As specified in Section 07 92 00.

E. Bedding Compound: Rubber-asphalt type.

F. Plastic Cement: ASTM D4586, Type I.

G. Metal Flashing System: Two piece pre-coated galvanized steel similar to Springlok Flashing System, manufactured by Fry Reglet, type as indicated. Include fabricated end closures and mitered corners.

H. Manufactured Reglets: Two piece pre-coated galvanized steel, spring-action type similar to "Springlock Flashing System" or approved equal, manufactured by Fry Reglet, type as indicated. Include fabricated end closures and mitered corners. Finish: Manufacturer's gray epoxy primer; exposed portions shall be field finish painted as specified in Section 09 91 00.

I. Fabricated Galvanized Sill Pans. Shop fabricate sill pans from 24 ga. fully soldered and watertight as per the drawings. Protect underside of pans sitting atop concrete surfaces with continuous layer of self-adhered flashing.

2.3 FABRICATION

A. Form sections true to shape, accurate in size, square, and free from distortion or defects.

B. Fabricate concealed cleats of galvanized steel, ASTM A653, Grade 33, G90 zinc coating, 0.0478" thickness, interlockable with sheet.

C. Fabricate exposed cleats and coverplates of same material as sheet, interlockable with sheet.

D. Form pieces in longest practical lengths.

E. Hem exposed edges on underside 1/2". Miter and seam corners.

F. Form material with flat lock seam.

G. Solder and seal metal joints. After soldering, remove flux. Wipe and wash solder joints clean.

H. Fabricate corners from one piece with minimum 18" long legs; seam for rigidity, seal with sealant.

I. Fabricate vertical faces with bottom edge formed outward 1/4" and hemmed to form drip.

J. Fabricate flashings to allow toe to extend 4" over [bituminous base flashings] [roofing surface]. Return and brake edges.

K. Fabricate vent pipe and roof penetration flashings of non lead-bearing material with clamping ring and storm collar.

2.4 FINISH

A. Shop prepare and prime exposed ferrous metal surfaces.

B. Back-paint concealed metal surfaces with protective backing paint to a minimum dry film thickness of 15 mil.

C. Site paint exposed to view metal surfaces under provisions of Section 09 91 00.

PART 3 - EXECUTION

3.1 INSPECTION

A. Verify roof openings, curbs, pipes, sleeves, ducts, or vents through roof are solidly set, cant strips and reglets are in place, and nailing strips located.

B. Verify membrane termination and base flashings are in place, sealed, and secure.

C. Contractor to confirm that site conditions and substrates are ready for sheet metal work to commence. If not, make suitable repairs or adjustments to the work. Beginning of installation means acceptance of existing conditions.

3.2 PREPARATION

A. Field measure site conditions prior to fabricating Work.

B. Install starter and edge strips, and cleats before starting installation.

C. Install surface-mounted reglets true to line and level. Seal top with sealant.

Revisions

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SAN RAFAEL
CITY SCHOOLS

Revisions

Delta	Date	Revisions	By
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Project

SRHS PAINTING PROJECT
BID SET

Sheet Title

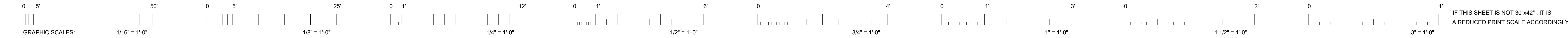
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3.3 INSTALLATION

- A. Conform to recommendations included in the SMACNA Architectural Sheet Metal Manual.
- B. Provide for thermal expansion of exposed sheet metal Work. Space movement joints at 10' on center maximum with no joints within 2' of corners. Attach members with clips to permit movement without damage, or provide slotted or oversize holes with washers.
- C. Form expansion joints of intermeshing hooked flanges filled with sealant.
- D. Insert flashings into reglets to form tight fit. Secure in place with lead wedges at maximum 12" on center. Pack remaining spaces with lead wool. Seal flashings into reglets with sealant.
- E. Secure flashings in place using concealed fasteners. Use exposed fasteners only where indicated.
- F. Lap, lock, seam and seal all joints. Make lock seam Work flat and true to line, and sweat full of solder, except where installed to permit expansion and contraction. Lap flat lock seams, and lap seams where soldered according to pitch, but in no case less than 3". Make seams in direction of flow.
- G. Apply plastic cement compound between metal flashings and felt flashings. Apply bituminous coating between dissimilar metals where occurs.
- H. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- I. Solder metal joints watertight for full metal surface contact. After soldering, wash metal clean with neutralizing solution and rinse with water.
- J. Seal metal joints watertight and weathertight throughout.

3.4 FIELD QUALITY CONTROL

- A. Conform to SMACNA Architectural Sheet Metal Manual.
- B. Field observation will involve surveillance of Work during installation to ascertain compliance with specified requirements.

3.5 CLEANING AND ADJUSTMENT

- A. Leave Work clean and free of stains, scrap and debris.
- B. Repair and replace damaged Work.

END OF SECTION

SECTION 07 71 23
Manufactured Gutters and Downspouts

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Galvanized steel gutters [and downspouts].
- B. Aluminum-Zinc Alloy Coated gutters and downspouts.
- C. Steel pipe downspouts.
- D. Precast concrete splash blocks and sheet metal splash pans.

1.2 REFERENCES

Contractor's work shall comply with the following standards as applicable. Manufactured items are to be fabricated to these same standards.

The following standards (and publications) are applicable to the extent referenced in the text. The most recent of these standards is implied, unless otherwise stated.

- A. ASTM A53 - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
- B. ASTM A755 - Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepared by the Coil-Coating Process for Exterior Exposed Building Products.
- C. SMACNA - Architectural Sheet Metal Manual.

1.3 SUBMITTALS

- A. Submit Shop Drawings of metal items indicating profiles, jointing, terminations, and installation details. Indicate type and spacing of fasteners.

1.4 Submit samples of all materials where required to match existing conditions.

1.5 QUALITY ASSURANCE

- A. Applicator: Company specializing in sheet metal Work with five years minimum experience.

1.6 STORAGE AND HANDLING

- A. Store products under provisions of Section 01 87 00.
- B. Stack preformed material to prevent twisting, bending, or abrasion and to provide ventilation.
- C. Prevent contact with materials during storage which may cause discoloration, staining or damage.

1.7 WARRANTY

- A. Provide manufacturer's 20 year warranty against defective materials and finish.
- B. Provide installer's 2 year warranty coverage for water tightness and integrity of seals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Galvanized Steel: ASTM A653, Grade 33, G90 zinc-coating in accordance with ASTM A924; thickness as specified.
- B. 22 GA Aluminum-Zinc Alloy Coated.

- C. Steel Pipe: ASTM A53, Grade B, Schedule 40 steel pipe, standard weight, Type S, one piece without joints, galvanized according to ASTM A53; 1.8 ounces per square foot.

2.2 COMPONENTS

- A. Fascia Gutters: 16 gauge or as indicated. Formed to profiles indicated. Include downspout outlet and integral straps as part of the assembly.
- B. Ogee Gutters: 22 gauge or as indicated, die-formed to profiles indicated.

- C. Steel Pipe Downspouts: Fabricate from Schedule 40 steel pipe, and other steel stock as indicated, all full penetration welded into one assembly, then hot-dip galvanized. (Use these within 8' of finished grade only.)
- D. Sheet Metal Downspouts: 22 gauge continuous lock-seamed tube, round or rectangular as indicated, size to suit.
- E. Strainers: Basket-type constructed of 12 gauge stainless steel wire, size to fit correctly into the leader, provide stainless steel strap tie-downs to clamp to the downspout outlet as indicated.
- F. Splash Blocks: Pre-cast concrete type, of sizes and profiles indicated; minimum 3000 psi at 28 days, with minimum 5% air entrainment.
- G. Splash Pans: Fabricated from same metal as gutters. Tack down to roofing surface with asphalt cement.

2.3 ACCESSORIES

- A. Anchorage Devices: Meet SMACNA requirements.
- B. End Caps, Downspout Outlets, Rain Diverters, Straps, Support Brackets, Joint Fasteners: Profiled to suit gutters and downspouts.
- C. Protective Backing Paint: Zinc chromate alkyl at all concealed surfaces.
- D. Gutter Expansion Joints: Provide at every 50' of length or as recommended by SMACNA.

2.4 FABRICATION

- A. Form gutters and downspouts of profiles and sizes indicated.
- B. Field measure site conditions prior to fabricating Work.
- C. Fabricate with required connection pieces.
- D. Form sections square, true, and accurate in size, in maximum possible lengths and free of distortion or defects detrimental to appearance or performance.
- E. Hem exposed edges of metal.
- F. Seal metal joints.
- G. Fabricate gutter and downspout accessories; seal watertight.
- H. Form splash pans to size as detailed with rolled edges.

2.5 SHOP FINISHING

- A. Shop prepare and prime exposed ferrous metal surfaces.
- B. Back-paint concealed metal surfaces with protective backing paint to a minimum dry film thickness of 15 mils.
- C. Site paint exposed to view metal surfaces as specified in Section 09 91 00.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that surfaces are ready to receive Work. Contractor to correct deficiencies in the surfaces at own expense.
- B. Beginning of installation means acceptance of existing conditions.

3.2 INSTALLATION

- A. Provide concealed solid blocking at all steel pipe downspout brackets.
- B. Coordinate layout of downspouts with site conditions and features on the building not shown in the building elevations.
- C. Install gutters, downspouts, and accessories in accordance with SMACNA requirements.
- D. Coordinate installation of sheet metal gutters with steel pipe downspouts.
- E. Join lengths with seams sealed watertight. Flash and seal gutters to downspouts and accessories.
- F. Seal metal joints watertight.
- G. Set splash blocks under downspouts. Tack down all metal rooftop splash pans to roof surface with asphalt cement.
- H. Coordinate downspouts connecting to the storm drain system with other Work.

END OF SECTION

SECTION 07 92 00
Joint Sealers

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Preparing sealant substrate surfaces.
- B. Sealant and backing.

1.2 SUMMARY OF SEALANT LOCATIONS

- A. Joints in Horizontal Surfaces:
- Control and expansion joints in soffits, ceilings and overhead surfaces.
 - Joints on underside of precast beams and planks.
 - Perimeter joints in exterior openings.
 - Joints between ceiling surfaces and frames for doors and windows.
 - Joints in flashing and sheet metal.
 - Joints between thresholds and floors.
 - Joints between dissimilar materials and those listed above.
 - Other joints as indicated.
- B. Joints in Vertical Surfaces:
- Expansion and isolation joints in masonry.
 - Perimeter joints in exterior openings.
 - Joints in flashing and sheet metal.
 - Joints between wall surfaces and door and window frames.
 - Isolation joints in plaster walls.
 - Joints between dissimilar materials and those listed above.
 - Other joints as indicated.

1.3 REFERENCES

- A. ASTM C834 - Standard Specification for Latex Sealing.
- B. ASTM C1193 - Standard Guide for Use of Joint Sealants.
- C. ASTM D1056 - Standard Specification for Flexible Cellular Materials - Sponge or Expanded Rubber.
- D. SWRI - (Sealant, Waterproofing and Restoration Institute) - Sealant and Caulking Guide Specification.

1.4 SUBMITTALS

- A. Submit Product Data indicating sealant chemical characteristics, performance criteria, limitations, and color availability.
- B. Submit two 4" long Samples illustrating colors selected.

1.5 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacturing the products specified in this Section with minimum five years documented experience.
- B. Applicator: Company specializing in applying the Work of this Section with minimum three years documented experience, approved by sealant manufacturer.
- C. Conform to Sealant, Waterproofing, and Restoration Institute (SWRI) requirements for materials and installation.
- D. Perform Work in accordance with ASTM C1193.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Do not install solvent curing sealants in enclosed building spaces.
- B. Do not install sealant when temperature is less than 40°F.
- C. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

1.7 WARRANTY

- A. Provide sealant manufacturer's 5 year warranty against defects in materials.
- B. Include coverage for installed sealants and accessories which fail to achieve air and water seal and exhibit loss of adhesion or cohesion or do not cure.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers and products are listed for each sealant type.

2.2 SEALANTS

- A. Type A - Acrylic Latex: One-part, non-sag, mildew resistant acrylic emulsion compound complying with ASTM C834, Type S, Grade NS, formulated to be paintable:
- Tremco Inc., Acrylic Latex Caulk "Tremflex 834/TremPro 655", www.tremcosealants.com
 - Bostik Construction Products Division, www.bostik-us.com
 - Pecora Corporation, "Pecora AC-20", www.pecora.com
- B. Type B - Butyl Sealant: One-part, non-sag solvent-release-curing sealant complying with FS TT-S-001657 for Type 1 and formulated with a minimum of 75% solids:
- Tremco Inc., Tremco "Bitul Sealant", www.tremcosealants.com
 - Bostik Construction Products Division, www.bostik-us.com
 - Pecora Corporation, www.pecora.com
- C. Type C - Silicone Sealant: One-part nonacid-curing silicone sealant complying with ASTM C920, Type S, Grade NS, Class 25:
- Dow Corning Corp., "Dowsil 790 Silicone Building Sealant", www.dow.com
 - General Electric Co., "SCS2000 Silpruf Sealant", siliconeforbuilding.com
 - Tremco, Inc., "Spectrem® 1", www.tremcosealants.com
 - Pecora Corp., "Pecora 864NST" or "Pecora 890NST", www.pecora.com
- D. Type D - Multi-Part Pourable Sealant: Complying with ASTM C920, Type M, Grade P, Class 25. Shore A hardness +40:
- Tremco, Inc.
 - Pecora Corp., "Pecora DynaTred" or "Pecora Urexpam NR-200", www.pecora.com
 - Sika Corporation, "Sikallex 2C NS EZ Mix", usa.sika.com
 - W.R. Meadows, "Pourthane NS/SL", www.wrmeadows.com

2.3 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- C. Joint Backing: ASTM D1056; round, closed cell polyethylene foam rod; oversized 30% to 50% larger than joint width.
- D. Bond Breaker: Pressure-sensitive tape recommended by sealant manufacturer to suit application.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that joint openings are ready to receive Work and field measurements are as shown on Drawings and recommended by the manufacturer.
- B. Beginning of installation means installer accepts existing substrate.

3.2 PREPARATION

- A. Clean and prime joints in accordance with manufacturer's instructions. Prime if recommended by manufacturer.
- B. Remove loose materials and foreign matter which might impair adhesion of sealant.
- C. Verify that joint backing and release tapes are compatible with sealant.
- D. Perform preparation in accordance with ASTM C1193.
- E. Protect elements surrounding the Work of this Section from damage or disfiguration.

3.3 INSTALLATION

- A. Install sealant in accordance with manufacturer's instructions.
- B. Measure joint dimensions and size materials to achieve required width/depth ratios.
- C. Install joint backing to achieve a neck dimension no greater than 1/3 the joint width.
- D. Install bond breaker where joint backing is not used.
- E. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- F. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- G. Tool joints concave unless otherwise detailed.

3.4 CLEANING AND REPAIRING

- A. Clean adjacent soiled surfaces.
- B. Repair or replace defaced or disfigured finishes caused by Work of this Section.

3.5 PROTECTION OF FINISHED WORK

- A. Protect sealants until cured.

3.6 SCHEDULE

Type	Location	Color
Type A - Acrylic Latex Cure	All interior joints otherwise Scheduled	To match adjacent material
Type B - Butyl	Under thresholds	Black
Type C - One-Part Nonacid Curing	Exterior door, entrance, & window frames, metal flashing	To match adjacent material
Type D - Multi-part Pourable Sealant	Exterior & interior joints in horizontal surfaces of concrete; between metal & concrete masonry and mortar	To match adjacent material

END OF SECTION

SECTION 08 13 13
Hollow Metal Doors and Frames

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Related Sections:
- Section 09 91 00 Painting; for field painting hollow metal doors and frames.
- B. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
- ANSI/SDI A250.8 - Standard Steel Doors and Frames.
 - California Building Code and amendments.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.
- B. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4" high wood blocking. Do not store in a manner that traps excess humidity.

1.4 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.5 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.
- B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- CECO Door Products, www.cecodoor.com
 - Curries Company, www.curries.com
 - Security Metal Products.
 - Steelcraft, www.steelcraft.com

2.2 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A1008/ A1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
- B. Metallic-Coated Steel Sheet: ASTM A653/ A653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

2.3 ENERGY EFFICIENCY HOLLOW METAL DOORS

- A. General: Provide 1-3/4" doors of design specified, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMMA 867.
- Level/Model: Level 2 and Physical Performance Level A (Heavy Duty), Minimum 18 gauge (0.042" - 1.1-mm) thick steel, Model 2.

- Vertical Edges: Vertical edges to be mechanically interlocked with hairline seam. Beveled Lock Edge, 1/8" in 2" (3 mm in 50 mm).
 - Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel to include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers are not acceptable.
- B. Manufacturers Basis of Design:

- CECO Door Products Trio-E/Trio Series, www.cecodoor.com
- Curries Company, "777E Series Trio-E", www.curries.com

2.4 ACCESSORIES

- A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.
- B. Grout Guards: Formed from same material as frames, not less than 0.016" thick.

2.5 FABRICATION

- A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.

2.6 STEEL FINISHES

- A. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.
- Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.
 - Factory Pre-Finished: Factory apply electrostatic paint finish to doors and frames in accordance with ANSI/SDI A250.3 test procedure acceptance criteria for steel doors and frames with factory applied finished coatings.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (strike height, hinge spacing, hinge back set, etc.).
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.
- B. Prior to installation, adjust and securely brace welded hollow metal frames for squareness, alignment, twist, and plumbness.
- C. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.

3.3 INSTALLATION

- A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
- B. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.
- Non-Fire-Rated Standard Steel Doors:
 - Jams and Head: 1/8" ± 1/16".
 - Between Edges of Pairs of Doors: 1/8" ± 1/16".
 - Between Bottom of Door and Top of Threshold: Maximum 3/8".
 - Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4".
 - Fire-Rated Doors: Install doors with clearances according to NFPA 80.

3.4 ADJUSTING AND CLEANING

- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.
- B. Remove grout and other bonding material from hollow metal work immediately after installation.
- C. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

END OF SECTION

SECTION 09 91 00
Painting

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Surface preparation.
- B. Products and application.
- C. Surface finish schedule.
- D. Patch to match existing.

1.2 REFERENCES

- A. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications.

1.3 SYSTEM DESCRIPTION

- A. Preparation of all surfaces to receive final finish.
- B. Painting and finishing Work of this Section using coating systems of materials including primers, sealers, fillers, and other applied materials whether used as prime, intermediate, or finish coats.



△ # Revisions			
Delta	Date	Revisions	By

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Architect/Engineer Of Record: _____



HY Architects Project number: 5775

San Rafael High School
150 3RD STREET, SAN RAFAEL, CA 94901

Project
SRHS PAINTING PROJECT
BID SET

Sheet Title
SHEET SPECS

Client Project Number: Client Proj. #

Scale: Sheet
Drawn By:
Checked By:
Issue Date: 4/5/2022
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