CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY

MAYOR – JAMES F. KENNEY

MANAGING DIRECTOR – TUMAR ALEXANDER

COMMISSIONER OF PUBLIC PROPERTY – BRIDGET COLLINS-GREENWALD

ZONE 5 GARAGE RENOVATIONS
6666 RIDGE AVENUE
PROJECT NO. 20-20-4897-01

ARCHITECT

SEILER & DRURY ARCHITECTURE
420 DEKALB STREET
NORRISTOWN, PA 19401
PHONE NO. 610-272-4809

STRUCTURAL ENGINEER

WZG STRUCTURAL CONSULTING ENGINEERING, INC
180 W. RIDGE PIKE
ROYERSFORD, PA 19468
PHONE NO. 610-831-0555

ELECTRICAL ENGINEER

HUTEC ENGINEERING AND CONSULTING
304 MASTER ST., 1ST FLOOR
PHILADELPHIA, PA 19122
PHONE NO. 267-800-3540

ABBREVIATIONS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
APC	ACOUSTICAL PANEL CEILING
ALUM	ALUMINUM
ANOD	ANODIZED
BM	BEAM
BYDN	BEYOND
CLNG	CEILING
CLR	CLEAR
CONC	CONCRETE
DEMO	DEMOLISH
DIA	DIAMETER
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
EJ	EXPANSION JOINT
EJ(R)	EXPANSION JOINT, RETROFITTED
EQ	EQUAL
EX	EXISTING
EXIST	EXISTING
FIN	FINISH
FLR	FLOOR
FRT	FIRE RESISTANT TREATED
FT	FEET
GA	GAUGE
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
HDWR	HARDWARE
HM	HOLLOW METAL
HVAC	HEATING/VENTILATION/AIR CONDITIONING
MAT	MATERIAL
MAX	MAXIMUM
MIN	MINIMUM
MO	MASONRY OPENING
MTL	METAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
OC	ON CENTER
OH	OVERHEAD
PL	PLATE
PLAM	PLASTIC LAMINATE
PLYD	PLYWOOD
P.T.	PRESSURE TREATED
PT	PAINT OR PAINTED
RCP	REFLECTED CEILING PLAN
REQD	REQUIRED
REV	REVISION
RM	ROOM
SCHED	SCHEDULE
SIM	SIMILAR
SGT	STRUCTURAL GLAZED TILE
SS	STAINLESS STEEL
STL	STEEL
TO	TOP OF
TOB	TOP OF BLOCK
TYP	TYPICAL
UC	UNDER-COUNTER
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
W/	WITH
WD	WOOD

SYMBOLS

SECTION TAG
DETAIL REFERENCE NUMBER
SHEET NUMBER

INTERIOR ELEVATION TAG
DETAIL REFERENCE NUMBER
SHEET NUMBER

DOOR TAG – SEE DOOR SCHED

ROOM NAME
ROOM-NAME
100
ROOM TAG

NEW DOOR

EXISTING DOOR

ITEMS TO BE DEMOLISHED

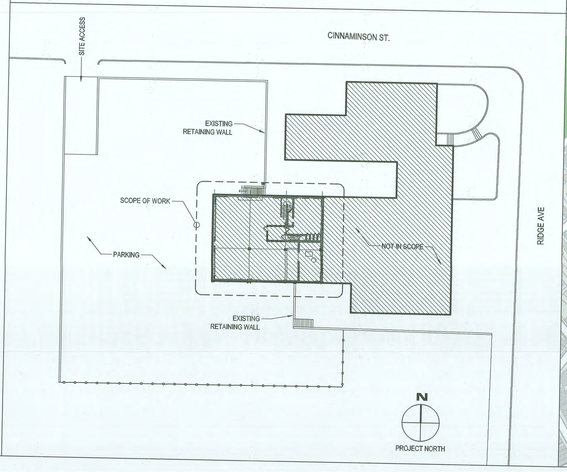
EXISTING CONSTRUCTION

NEW CONSTRUCTION

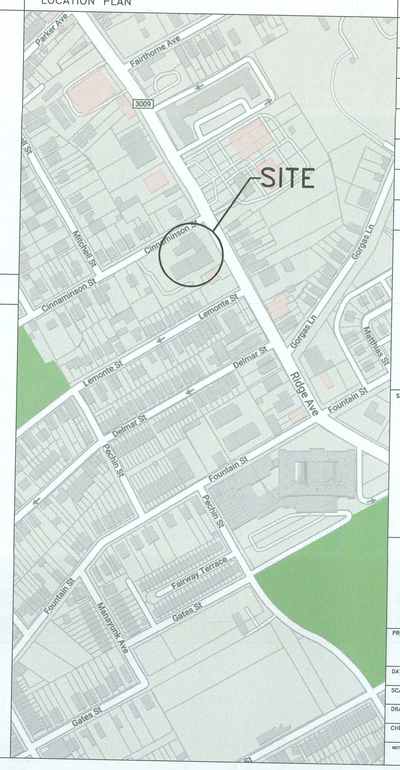
EXPANSION JOINT

DRAWING LIST

SITE DIAGRAM



LOCATION PLAN



PROJECT APPROVED

COMMISSIONER/DEPARTMENT OF PUBLIC PROPERTY

DEPUTY COMMISSIONER/DEPARTMENT OF PUBLIC PROPERTY

PROJECT DIRECTOR/DPP-CAPITAL PROJECTS DIVISION

ART COMMISSION

HISTORICAL COMMISSION

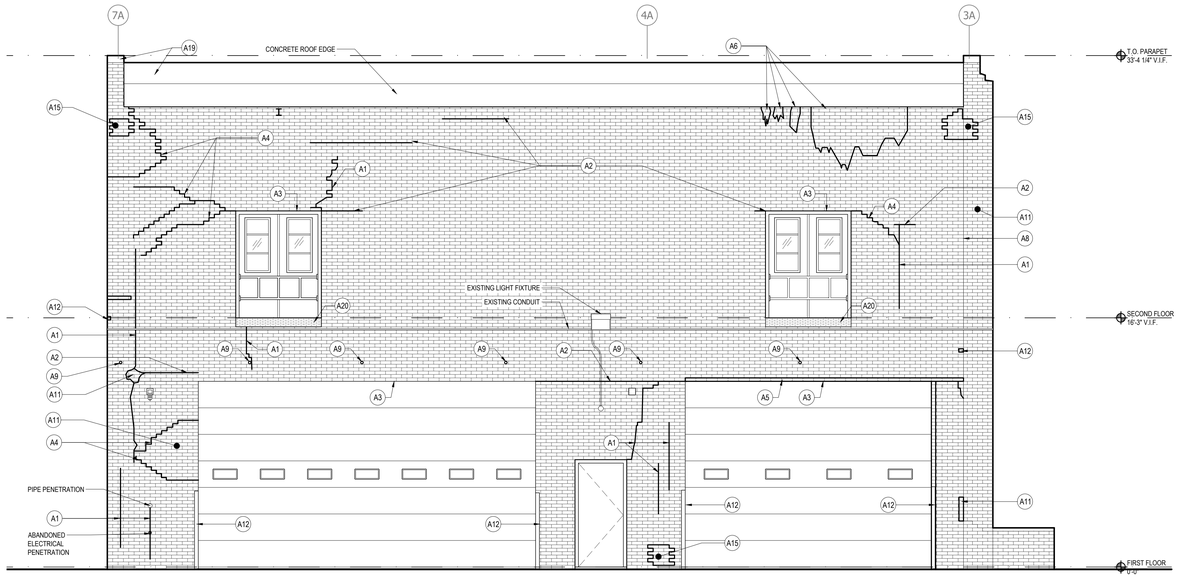
SEALS

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA DOUGLAS SEILER

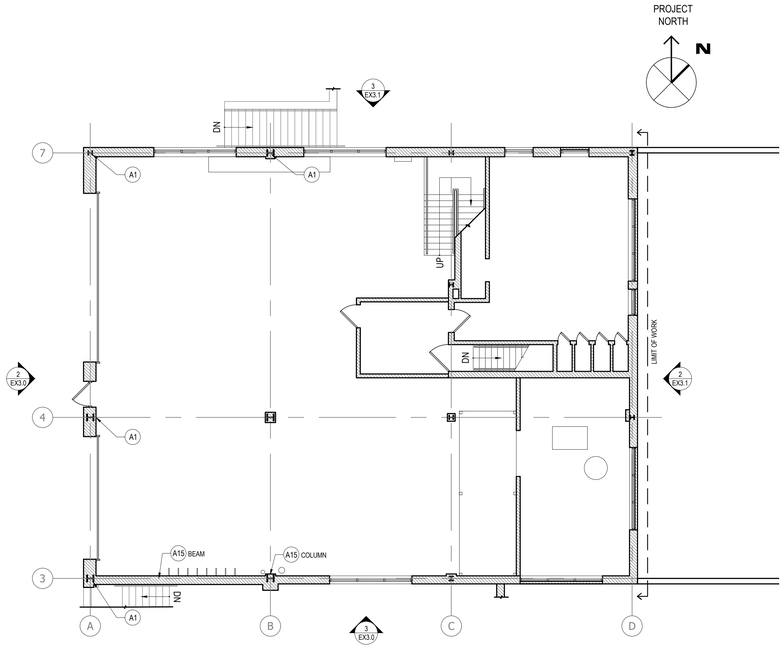
CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
CAPITAL PROJECTS DIVISION
1400 JFK BLVD 7TH FLR CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT NO.	20-20-4897-01
DRAWING NO.	CS1.0
DATE	12/07/2021
SCALE	AS NOTED
DRAWN BY	KK
CHECKED BY	DS

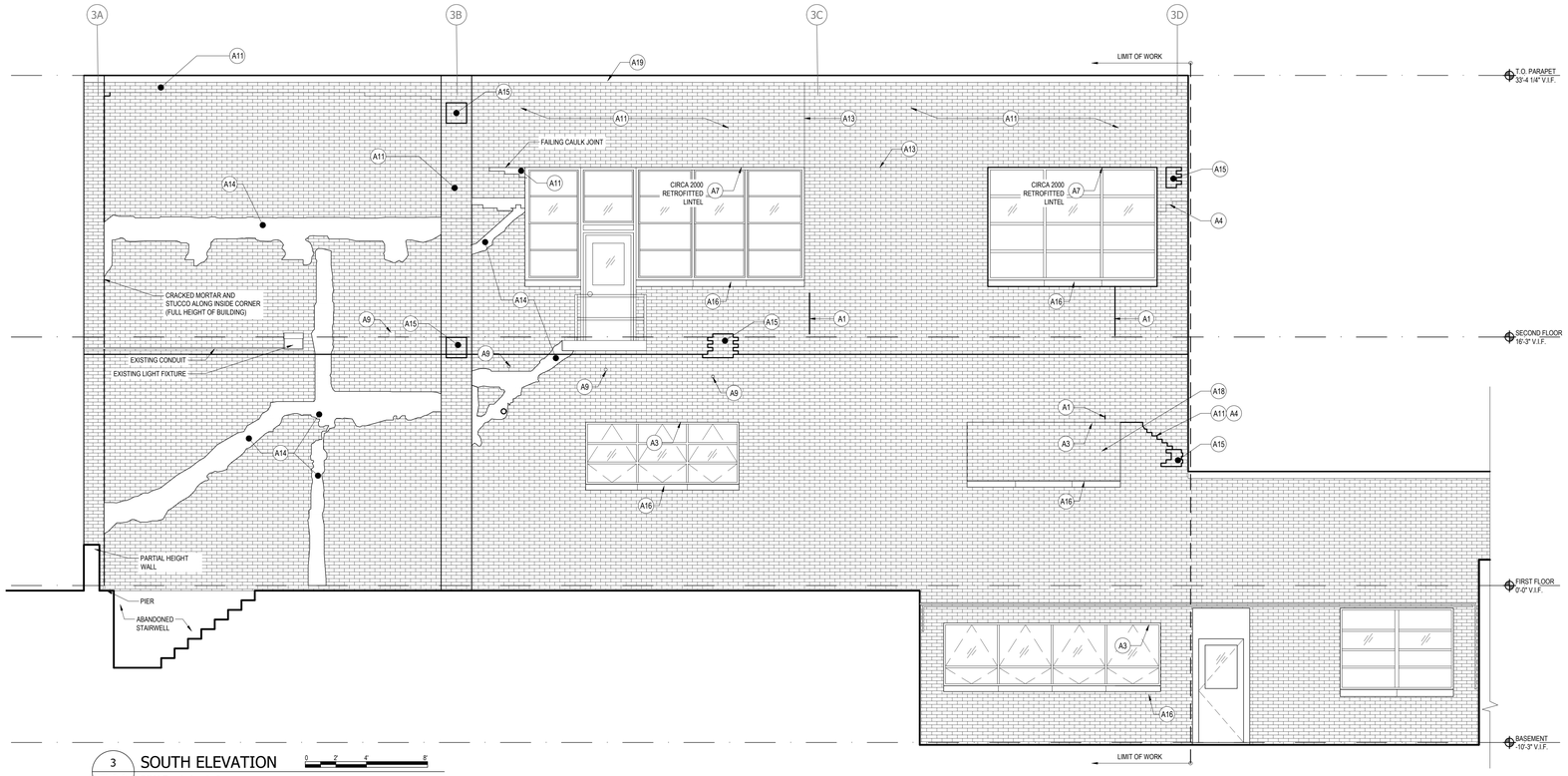
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



2 EX3.0 WEST ELEVATION
SCALE: 1/4"=1'-0"



1 EX3.0 1ST FLOOR KEYMAP
SCALE: 1/8" =1'-0"



3 EX3.0 SOUTH ELEVATION
SCALE: 1/4"=1'-0"

HATCH LEGEND

- EXISTING BRICK
- NEW BRICK
- INFILLED WINDOW
- EXISTING WALL (PLAN)

ELEVATION KEY NOTES SYMBOL: X

A1. VERTICAL CRACKING OF BRICK AND MORTAR JOINT.

A2. HORIZONTAL CRACKING OF MORTAR JOINT.

A3. RUSTED LINTELS.

A4. STAIR-STEPPED CRACKING OF BRICK.

A5. SPALLED BRICK.

A6. EFFLORESCENCE.

A7. SLIGHTLY RUSTED LINTEL.

A8. EXPANSION JOINT, APPEARS TO BE DETERIORATING.

A9. CORRODING METAL OBJECT IN MASONRY WALL.

A10. NOTE NOT USED.

A11. EVIDENCE OF PRIOR BRICK REPAIR.

A12. SPALLED/ DAMAGED BRICK, ISOLATED AREA.

A13. EXPANSION JOINT IN FAIR CONDITION. WEEPS PRESENT AT HORIZONTAL EXPANSION JOINTS.

A14. STUCCO PATCH/ AT REMOVED STAIR LOCATION.

A15. SEILER & DRURY ARCH./ WZG STRUCTURAL PROBE LOCATION FOR REPORT DATED 8/12/2020

A16. LIMESTONE SILL.

A17. ROWLOCK SILL.

A18. INFILLED WINDOW.

A19. METAL COPING, TYP.

A20. METAL BENT PLATE OVER CONC. SLAB.

REVISIONS

ISSUE	DATE	REVISIONS
0	12/07/2021	BID/PERMIT SET

PHILADELPHIA MANETO

PROJECT COORDINATOR: FREDDA LIPPES

SEALS

REGISTERED ARCHITECT COMMONWEALTH OF PENNSYLVANIA DOUGLAS E. SEILER

SPACE FOR CONSULTANT RECOGNITION

SEILER + DRURY
ARCHITECTURE
420 DEKALB STREET NORRISTOWN PA 19401
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CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
CAPITAL PROJECTS DIVISION
1400 JFK BLVD 7TH FLR CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE: EXISTING CONDITION EXTERIOR ELEVATIONS

PROJECT NO.: 20-20-4897-01

DRAWING NO.: EX3.0

DATE: 12/07/2021

SCALE: AS NOTED

DRAWN BY: KK

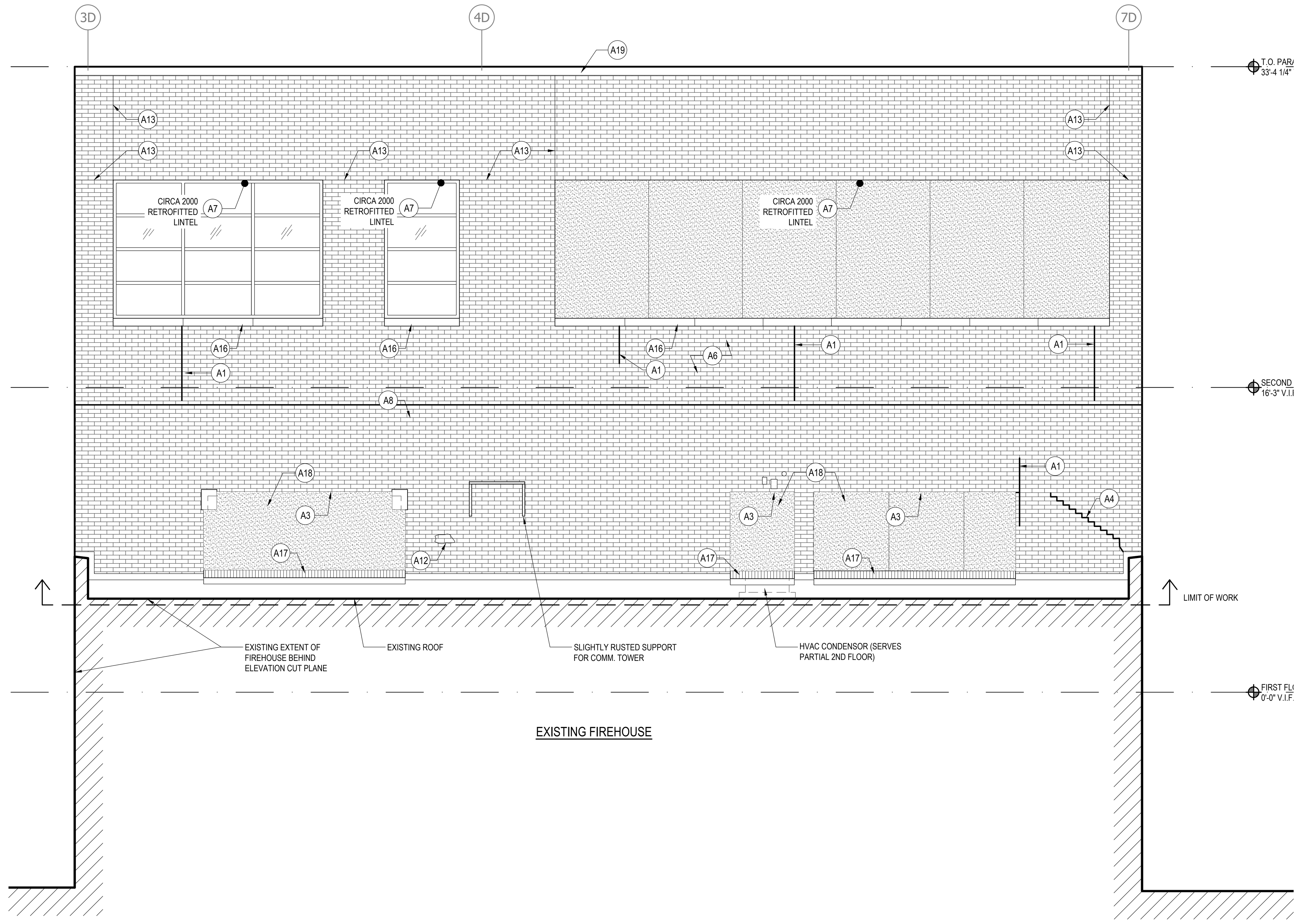
CHECKED BY: DS

FILE: P:\PROJECT FOLDER\EX3.0.DWG

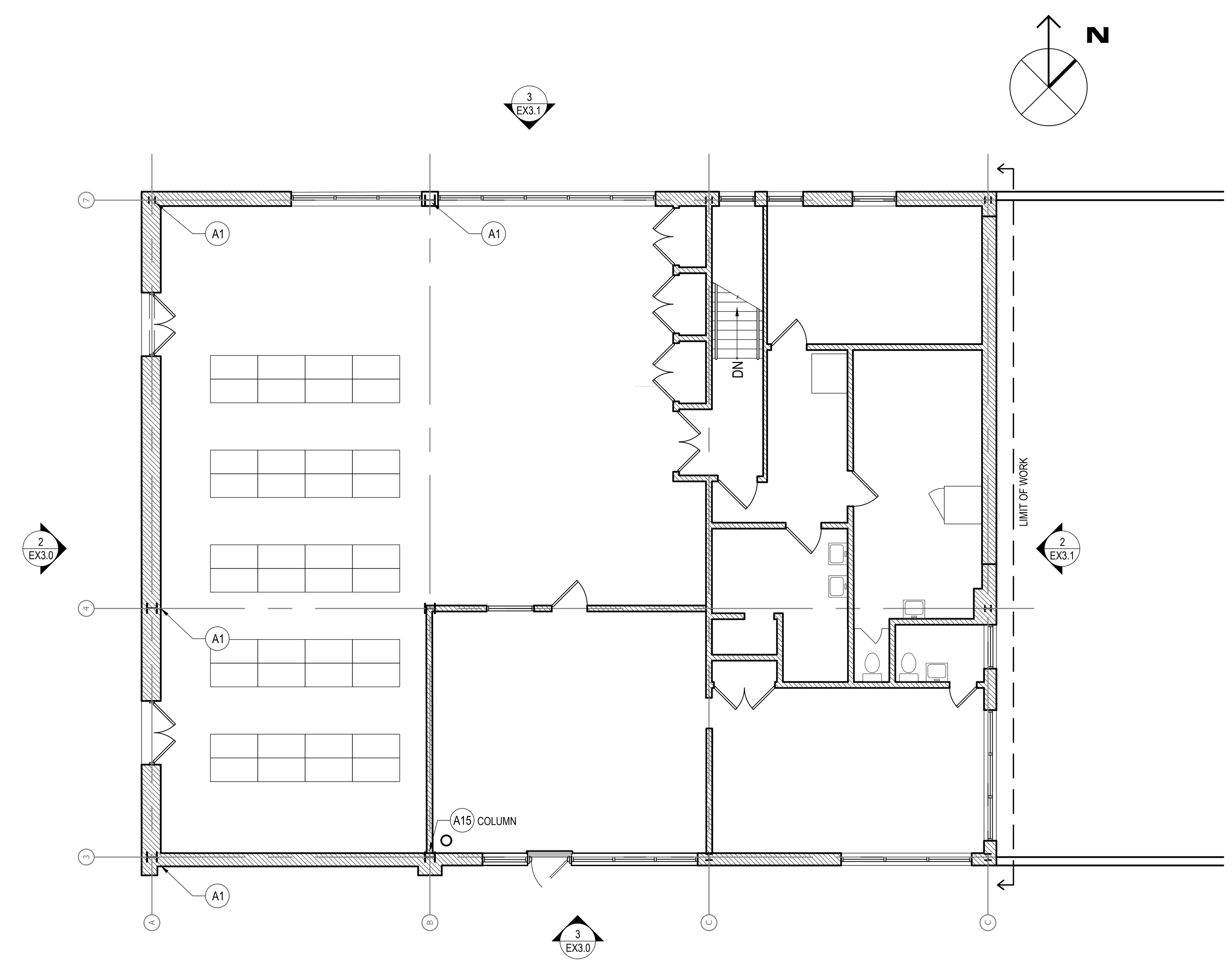
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

REVISIONS

ISSUE	DATE	REVISIONS
0	12/07/2021	BID/PERMIT SET



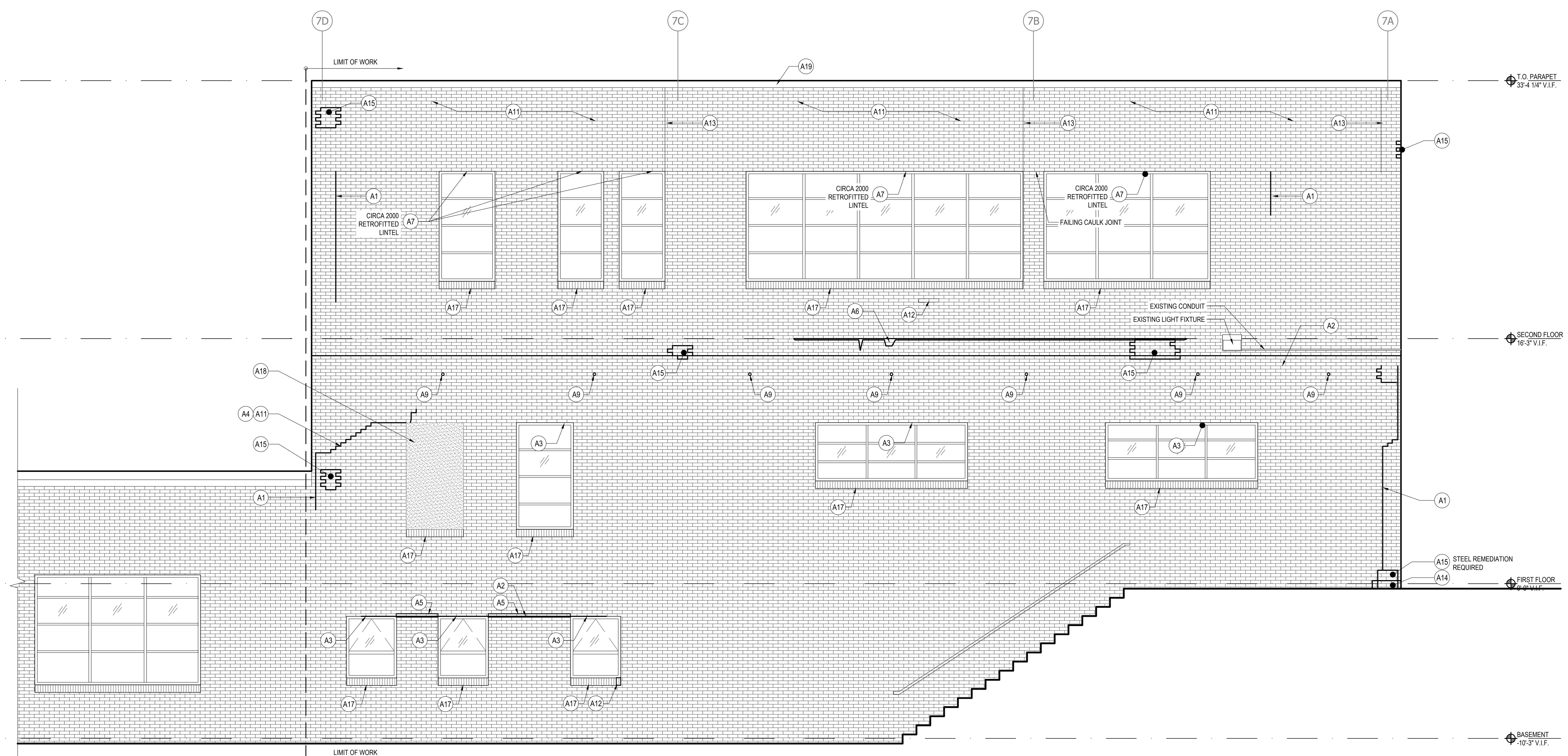
2 EX3.1 — EAST ELEVATION
SCALE: 1/4"=1'-0"



1 EX3.1 — 2ND FLOOR KEYMAP
SCALE: 1/8" =1'-0"

HATCH LEGEND

- EXISTING BRICK
- NEW BRICK
- INFILLED WINDOW
- EXISTING WALL (PLAN)



3 EX3.1 — NORTH ELEVATION
SCALE: 1/4"=1'-0"

ELEVATION KEY NOTES SYMBOL: (X)→

- A1. VERTICAL CRACKING OF BRICK AND MORTAR JOINT.
- A2. HORIZONTAL CRACKING OF MORTAR JOINT.
- A3. RUSTED LINTELS.
- A4. STAIR-STEPPED CRACKING OF BRICK.
- A5. SPALLED BRICK.
- A6. EFFLORESCENCE.
- A7. SLIGHTLY RUSTED LINTEL.
- A8. EXPANSION JOINT, APPEARS TO BE DETERIORATING.
- A9. CORRODING METAL OBJECT IN MASONRY WALL.
- A10. NOTE NOT USED.
- A11. EVIDENCE OF PRIOR BRICK REPAIR.
- A12. SPALLED/ DAMAGED BRICK, ISOLATED AREA.
- A13. EXPANSION JOINT IN FAIR CONDITION. WEEPS PRESENT AT HORIZONTAL EXPANSION JOINTS.
- A14. STUCCO PATCH/ AT REMOVED STAIR LOCATION.
- A15. SEILER & DRURY ARCH./ WZG STRUCTURAL PROBE LOCATION FOR REPORT DATED 8/12/2020
- A16. LIMESTONE SILL.
- A17. ROWLOCK SILL.
- A18. INFILLED WINDOW.
- A19. METAL COPING, TYP.
- A20. METAL BENT PLATE OVER CONC. SLAB.

PROJECT COORDINATOR: FREDDA LIPPES

SEALS

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CITY OF PHILADELPHIA
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CAPITAL PROJECTS DIVISION
1400 JFK BLVD 7TH FLR CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE: EXISTING CONDITION EXTERIOR ELEVATIONS

PROJECT NO.	20-20-4897-01
DATE	12/07/2021
SCALE	AS NOTED
DRAWN BY	KK
CHECKED BY	DS
DRAWING NO.	EX3.1

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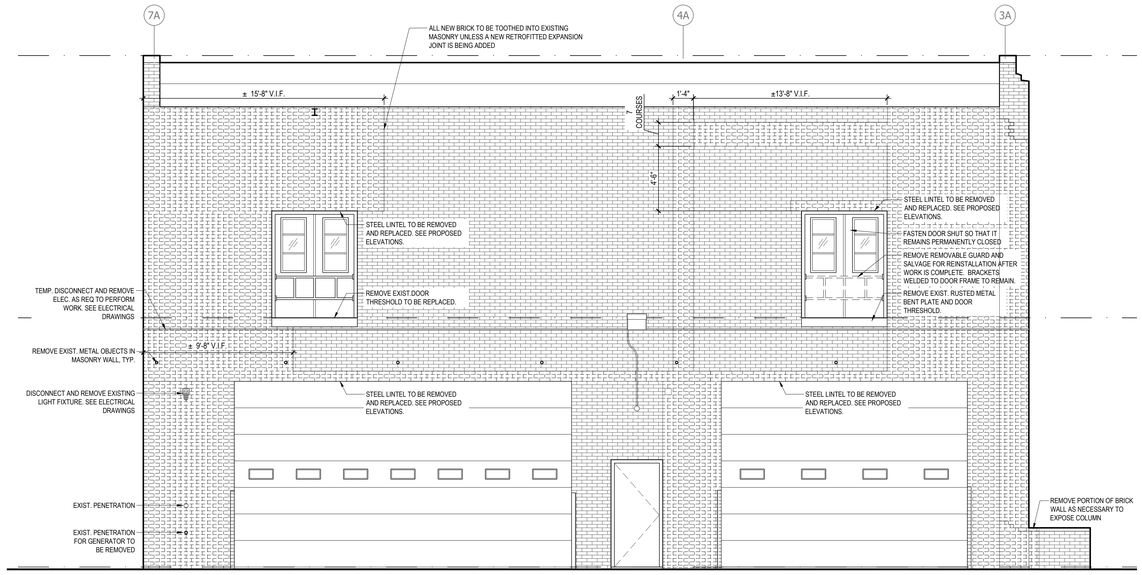
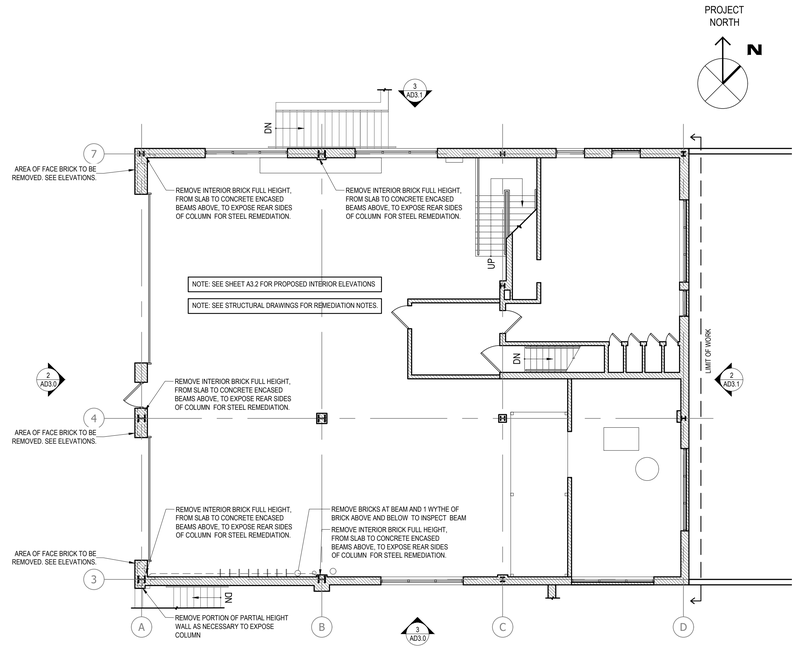
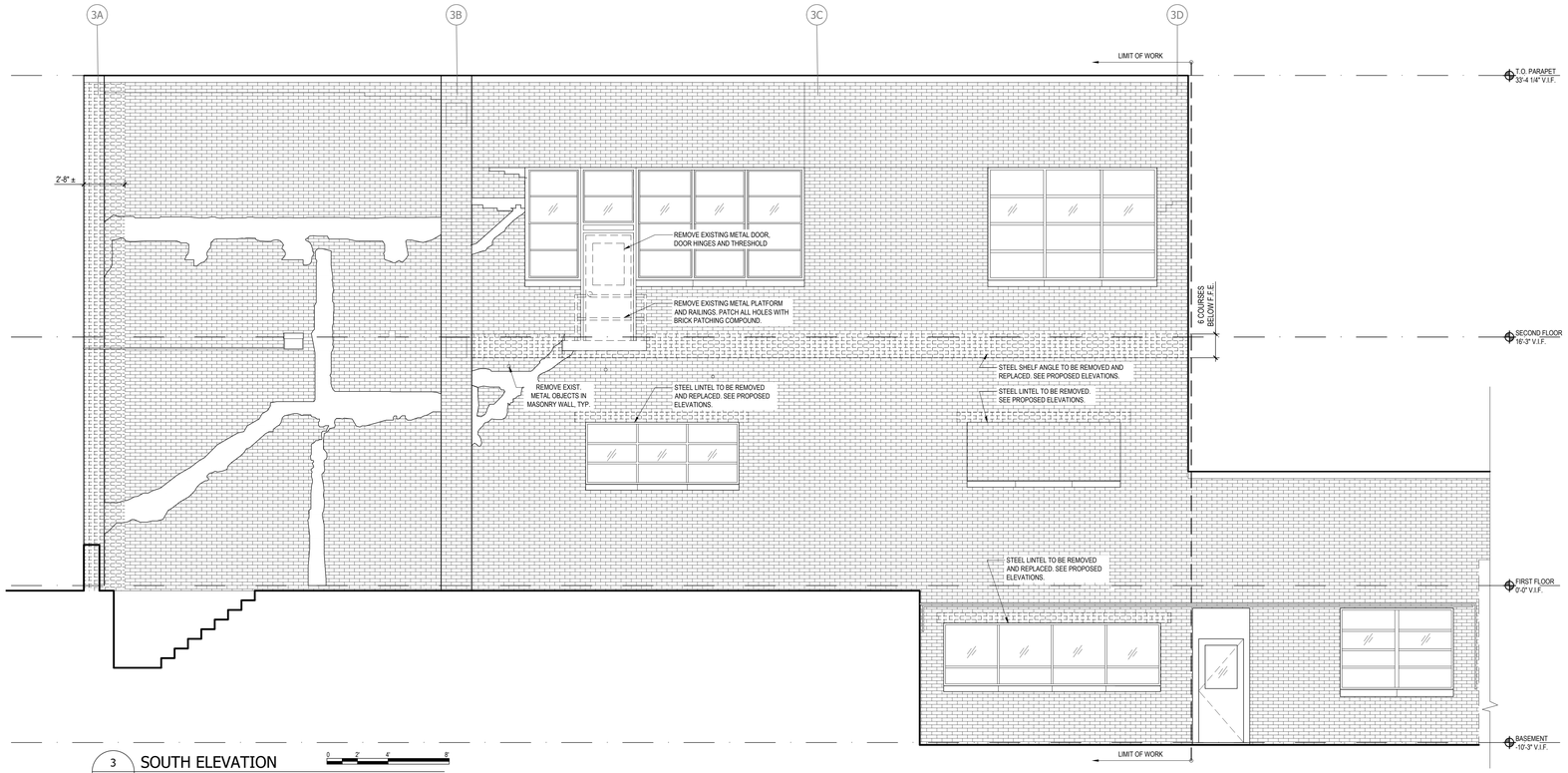


2 AD3.0 WEST ELEVATION SCALE: 1/4"=1'-0"



1 AD3.0 1ST FLOOR KEYMAP SCALE: 1/8" =1'-0"



3 AD3.0 SOUTH ELEVATION SCALE: 1/4"=1'-0"

GENERAL NOTES:

BRICKS SHOWN ARE NOT TO SCALE

HATCH LEGEND

- EXISTING BRICK
- AREA OF FACE BRICK TO BE REMOVED AND REPLACED
- INFILLED WINDOW
- EXISTING WALL (PLAN)

REVISIONS

ISSUE	DATE	REVISIONS
0	12/07/2021	BID/PERMIT SET

PROJECT COORDINATOR: FREDDA LIPPES

SEALS

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CAPITAL PROJECTS DIVISION
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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE: SELECTIVE DEMOLITION EXTERIOR ELEVATIONS

PROJECT NO. 20-20-4897-01	DRAWING NO. AD3.0
DATE 12/07/2021	
SCALE AS NOTED	
DRAWN BY KK	
CHECKED BY DS	

FILE: P:\[redacted]\20-20-4897-01

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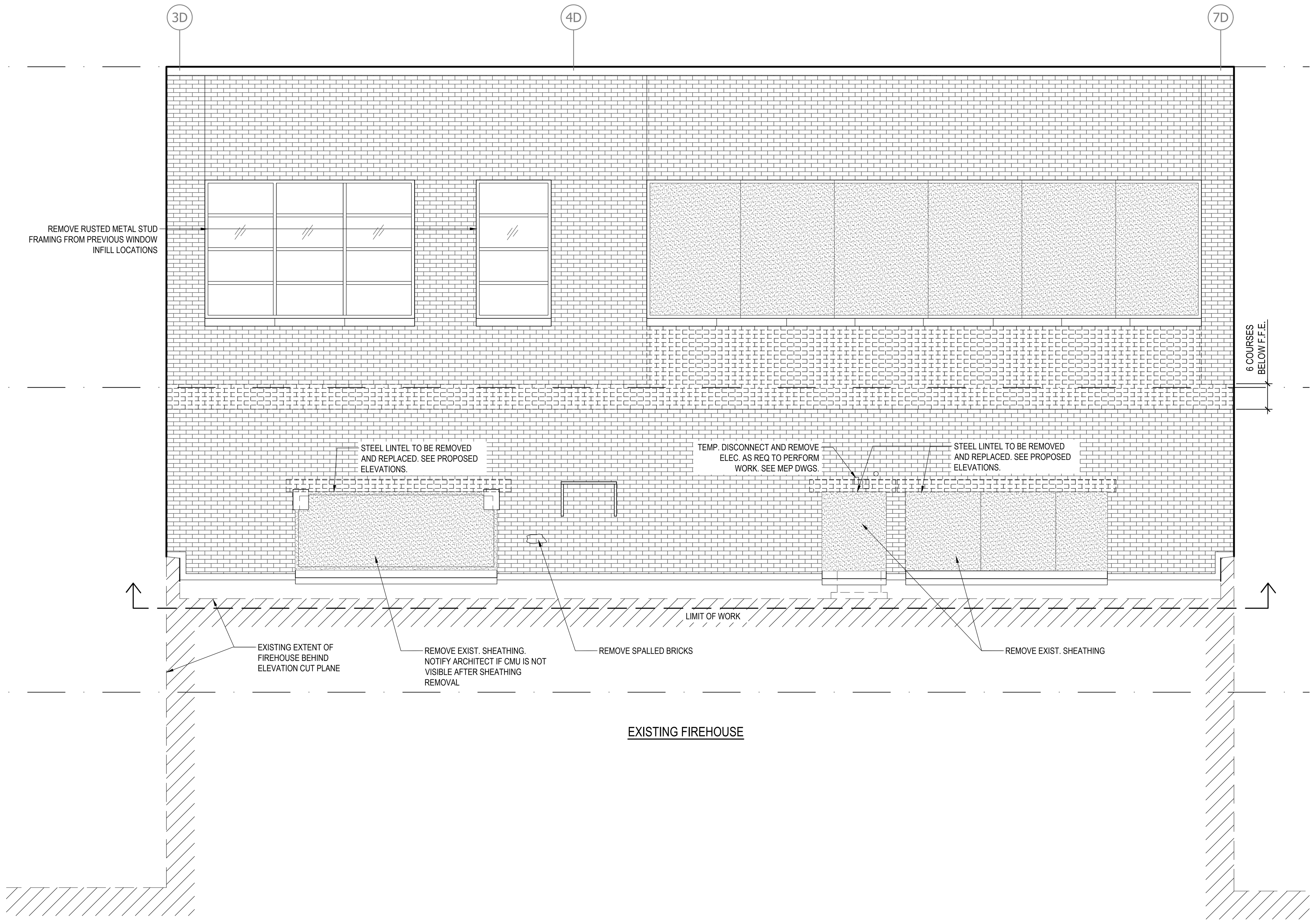
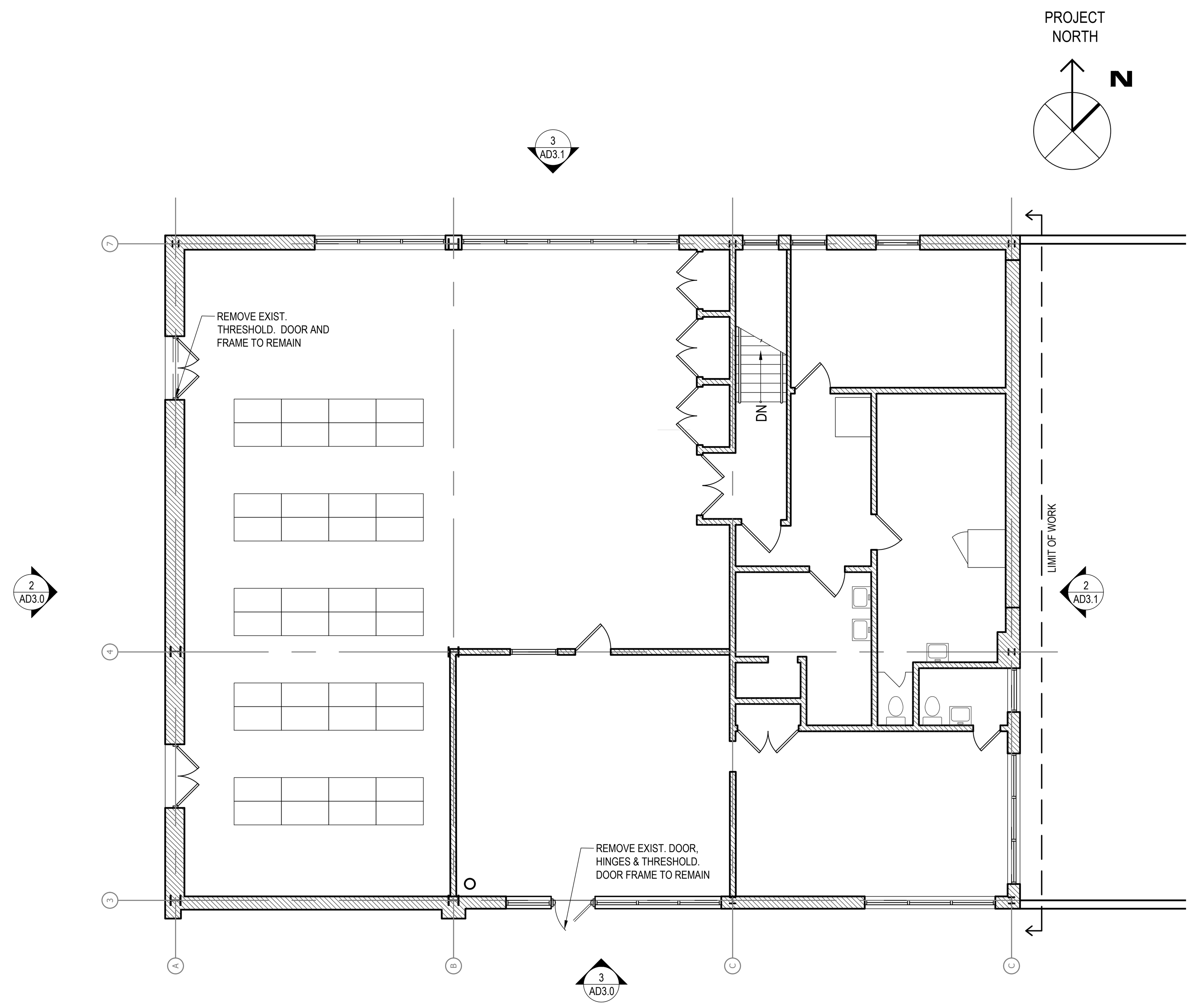
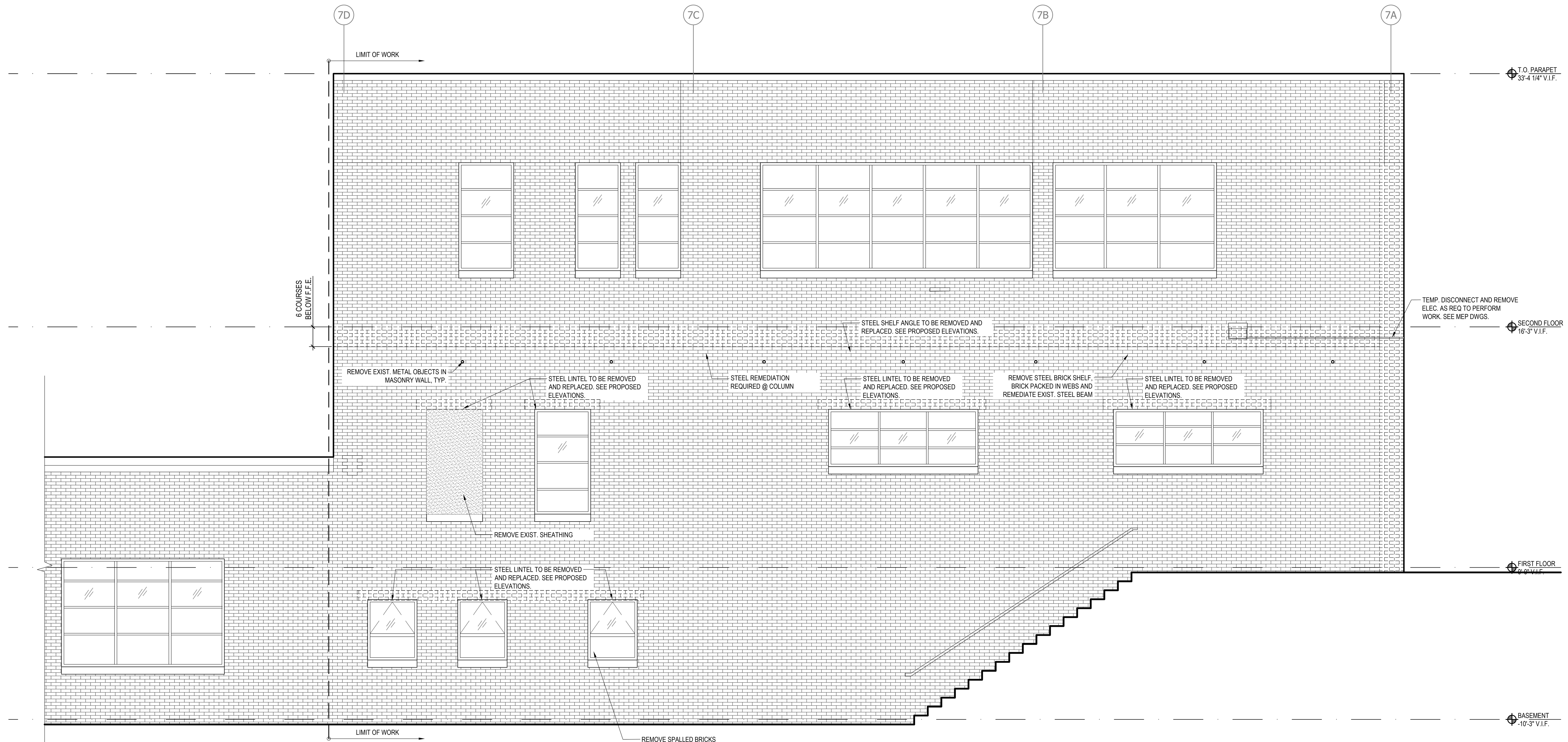


2 AD3.1 EAST ELEVATION
SCALE: 1/4"=1'-0"



1 AD3.1 2ND FLOOR KEYMAP
SCALE: 1/8" =1'-0"



3 AD3.1 NORTH ELEVATION
SCALE: 1/4"=1'-0"

GENERAL NOTES:

BRICKS SHOWN ARE NOT TO SCALE

HATCH LEGEND

- EXISTING BRICK
- AREA OF FACE BRICK TO BE REMOVED AND REPLACED
- INFILLED WINDOW
- EXISTING WALL (PLAN)

REVISIONS

ISSUE	DATE	REVISIONS
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PROJECT COORDINATOR: FREDDA LIPPES

SEALS

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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE: SELECTIVE DEMOLITION EXTERIOR ELEVATIONS

PROJECT NO.	20-20-4897-01	DRAWING NO.
DATE	12/07/2021	AD3.1
SCALE	AS NOTED	
DRAWN BY	KK	
CHECKED BY	DS	

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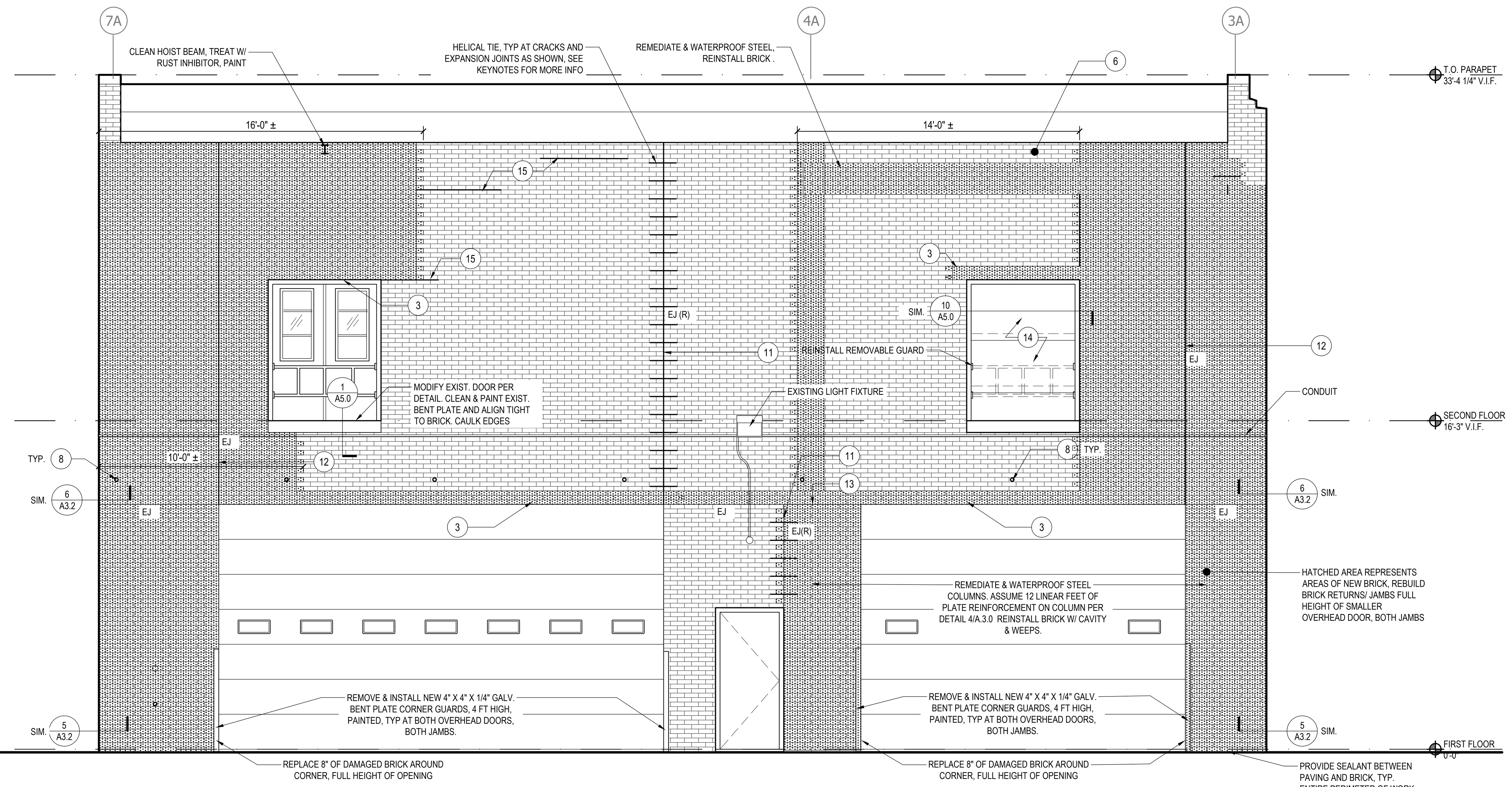
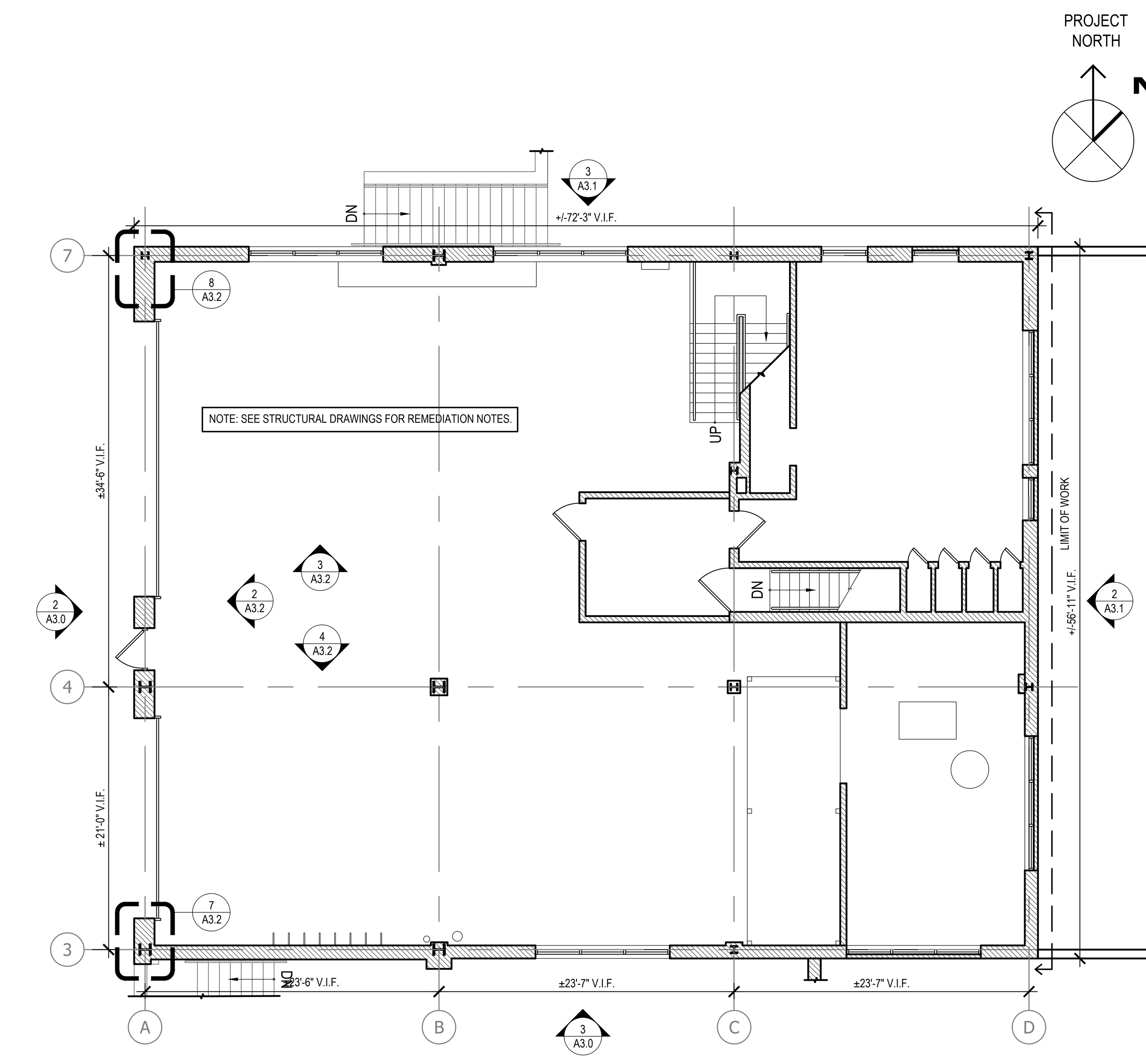


2 / A3.0 **WEST ELEVATION**

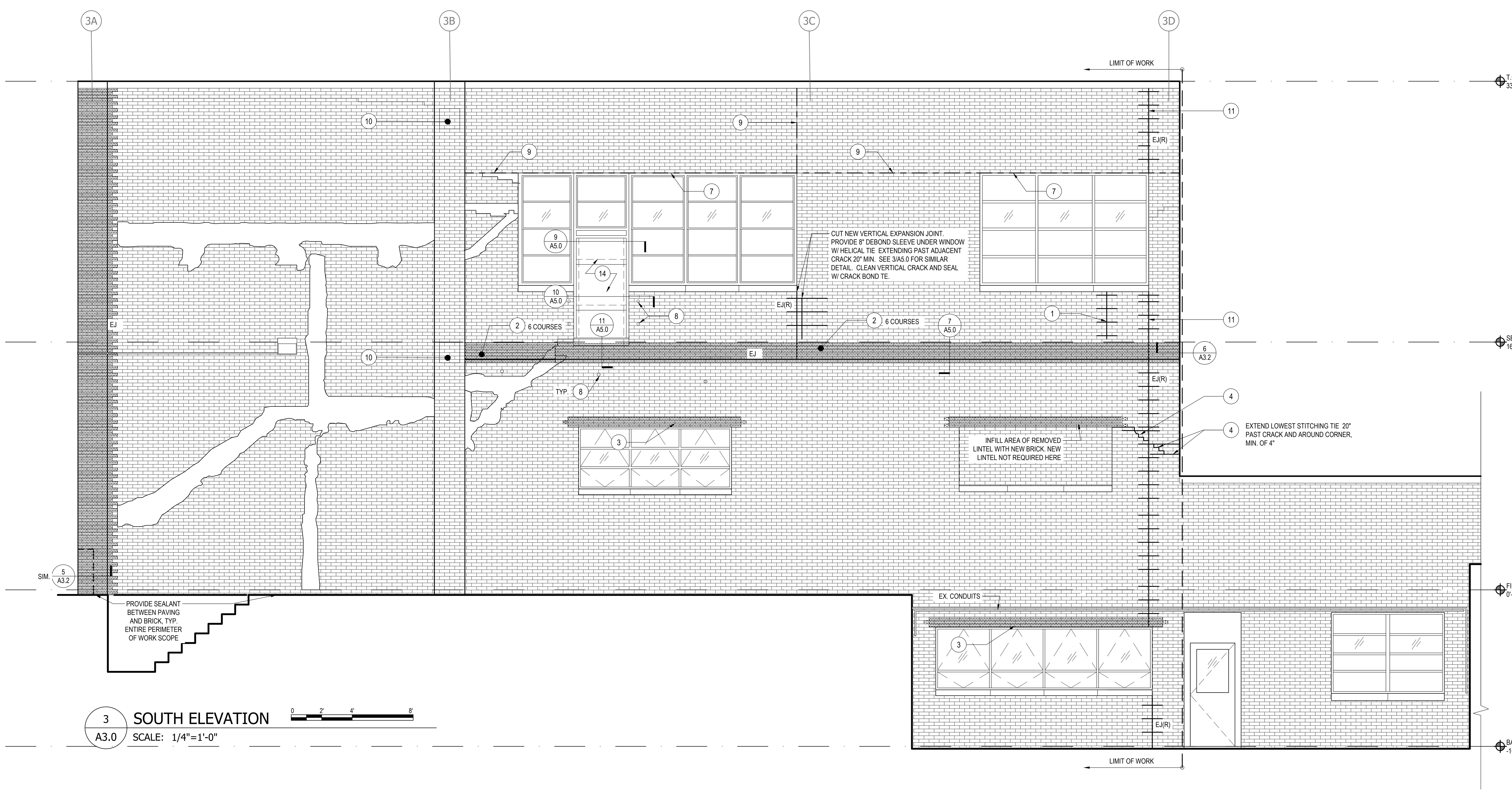
SCALE: 1/4"=1'-0"



1 / A3.0 **1ST FLOOR KEYMAP**

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

BASIS OF DESIGN PRODUCTS:	
TERMINATION BAR:	T2 - ALUMINUM TERMINATION BAR BY HOHMANN & BARNARD, INC.
EXPANSION JOINT STABILZER:	SLIP-SET STABILIZER BY HOHMANN & BARNARD, INC., GRADE 304 S.S.
SEISMIC ANCHOR AND TIES:	345-BT W/ BRICK TIE WITH SEISMICLIP INTERLOCK SYSTEM BY HOHMANN & BARNARD, INC.
WELD ON TIE W/ WIRE TIE:	VEE-BYNA TIE WITH 359 WELD-ON TIE BY HOHMANN & BARNARD, INC.
WELD ON TIE W/ COLUMN WIRE TIE:	301W COLUMN WEB TIE WITH 359 WELD-ON TIE.
DRYFIX TIE:	DRYFIX TIE BY HELIFIX, 8 MM DIA, GRADE 304 STL, LENGTH:
HELIBAR W/ DE-BOND SLEEVE:	HELIBAR TIE BY HELIFIX, 8 MM DIA, GRADE 304 S.S., LENGTH: 16" U.N.O. W/ PLASTIC DE-BOND SLEEVE
STITCHING TIE:	HELIBAR TIE BY HELIFX, 8 MM DIA, GRADE 304 S.S., LENGHT: AS REQUIRED PER APPLICATION, MIN. LENGTH IS 40"



3 / A3.0 **SOUTH ELEVATION**

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

GENERAL NOTES:

BRICKS SHOWN ARE NOT TO SCALE

HATCH LEGEND

- EXISTING BRICK
- NEW BRICK
- INFILLED WINDOW
- EXISTING WALL (PLAN)

ELEVATION KEY NOTES

SYMBOL: (X)

1. STITCH CRACK W/ HELICAL STITCHING TIES,EVERY 4 COURSES VERT, 20 INCH MIN EMBEDMENT EA. SIDE OF CRACK PER MANUFACTURER'S INSTRUCTIONS. REPOINT BED JOINTS AFTER INSTALLATION AND SEAL CLEANED VERTICAL CRACKS WITH HELIFIX CRACKBOND TE
2. NEW GALVANIZED, WATERPROOFED SHELF ANGLE, REINSTALL BRICK W/ FLASHING & WEEPS. PROVIDE HORIZONTAL EXPANSION JOINT ONE COURSE BELOW NEW ANGLE. SEE 7/A5.0 FOR BRICK SHELF ANGLE DETAIL
3. NEW GALVANIZED STEEL LINTEL W/ FLASHING, WEEPS AND NEW BRICK. REMOVE AND REINSTALL WINDOW INFILL IF PRESENT AND UNLESS NOTED OTHERWISE. SEE 8/A5.0
4. REMOVE EXISTING SEALANT AND STITCH STAIR-STEPPED CRACK W/ HELICAL TIES, EVERY 4 COURSES VERTICALLY, 20 INCH EMBEDMENT EA. SIDE OF CRACK. WHERE TIE EXTENDS THRU PROPOSED VERTICAL EXPANSION JOINT, PROVIDE DEBONDING SLEEVE ON 8" END ON OPPOSITE SIDE OF EXPANSION JOINT.
5. CLEAN CRACK THROUGH BRICK AND SEAL WITH INJECTABLE REPAIR CRACK REPAIR GROUT.
6. CLEAN EFFLORESCENCE
7. CLEAN, TREAT W/ RUST INHIBITOR, AND PAINT LINTEL.
8. REMOVE EXISTING METAL PROTRUSIONS. SEE BRICK REPAIR SPECIFICATIONS "ABANDONED ANCHOR REMOVAL" FOR MORE INFO.
9. EXISTING EXPANSION JOINT REMOVE EXISTING BACKER ROD AND SEALANT AND REPLACE W/ NEW.
10. TOOTH IN NEW BRICKS TO REPLACE SPALLED BRICKS.
11. PROVIDE RETROFITTED EXPANSION JOINT, SEE DETAIL 3/A5.0
12. PROVIDE EXPANSION JOINT IN NEW BRICK, SEE DETAIL 6/A5.0
13. PROVIDE NEW HORIZONTAL EXPANSION JOINT
14. EXISTING MASONRY OPENING COVERED W/ EXTERIOR GRADE PLYWOOD AND CLAD WITH LAPPED SHEET METAL. SEE DETAIL ELEVATION 13/A5.0
15. REPOINT BED JOINT
16. FLASH ALL SILLS AT INFILL PANEL LOCATIONS, 6"

GENERAL ELEVATION NOTES:

- RECAULK ALL EXISTING DOORS AND WINDOWS THAT ARE NOT INFILLED. (22 LOCATIONS)
- REPOINT ALL LIMESTONE & BRICK WINDOW SILLS.
- ALL METAL THROUGH PENETRATIONS TO REMAIN ARE TO BE CLEANED, TREATED WITH RUST INHIBITORS, AND SURROUNDING JOINTS SEALED. CLEAN IRON STAINING ON MASONRY.
- LOCATE HORIZONTAL EXPANSION JOINTS IMMEDIATELY BELOW SHELF ANGLES.

REVISIONS

ISSUE	DATE	REVISIONS
0	12/07/2021	BID/PERMIT SET

PROJECT COORDINATOR: FREDDA LIPPES

SEALS

SPACE FOR CONSULTANT RECOGNITION

SEILER + DRURY
ARCHITECTURE
420 DEKALB STREET NORRISTOWN PA 19401
Tel 610.272.4809 www.sdarc.com

CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
CAPITAL PROJECTS DIVISION
1400 JFK BLVD 7TH FLR CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE: EXTERIOR ELEVATIONS

PROJECT NO.	20-20-4897-01
DATE	12/07/2021
SCALE	AS NOTED
DRAWN BY	KK
CHECKED BY	DS
DRAWING NO.	A3.0

FILE: F:\CPOFORMS\PREDESIGN\30x42DWGS

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REVISIONS

ISSUE	DATE	REVISIONS
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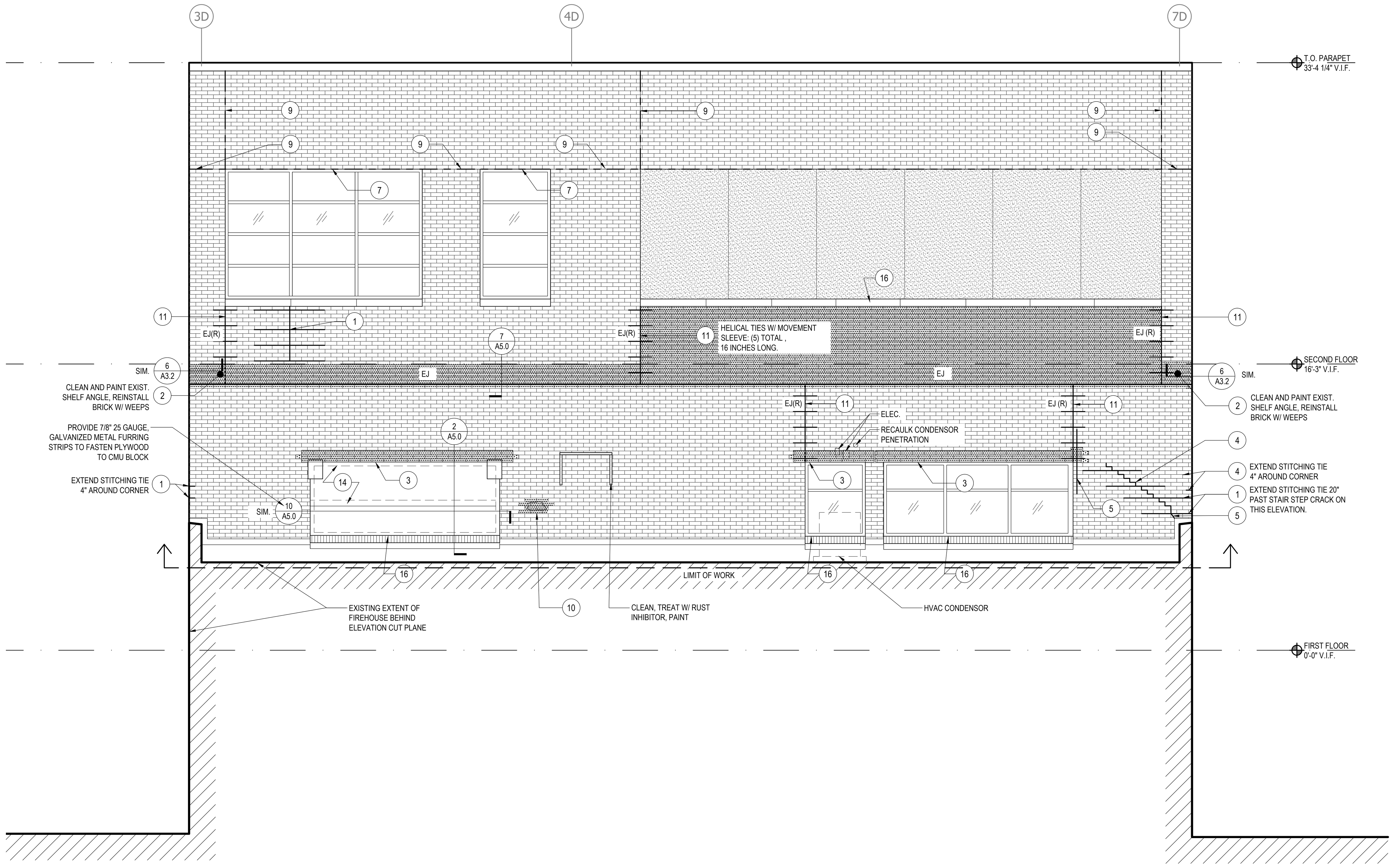
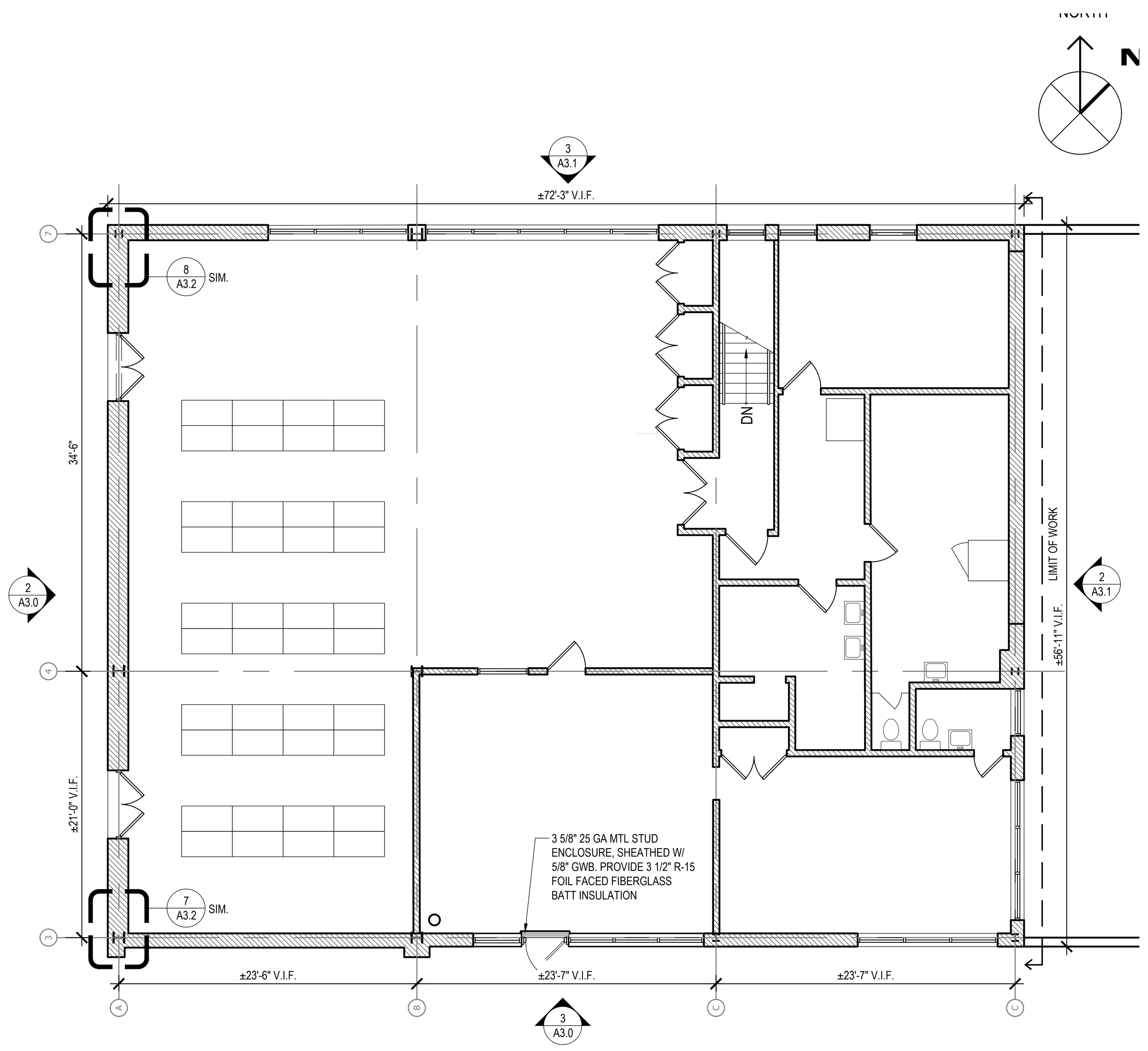
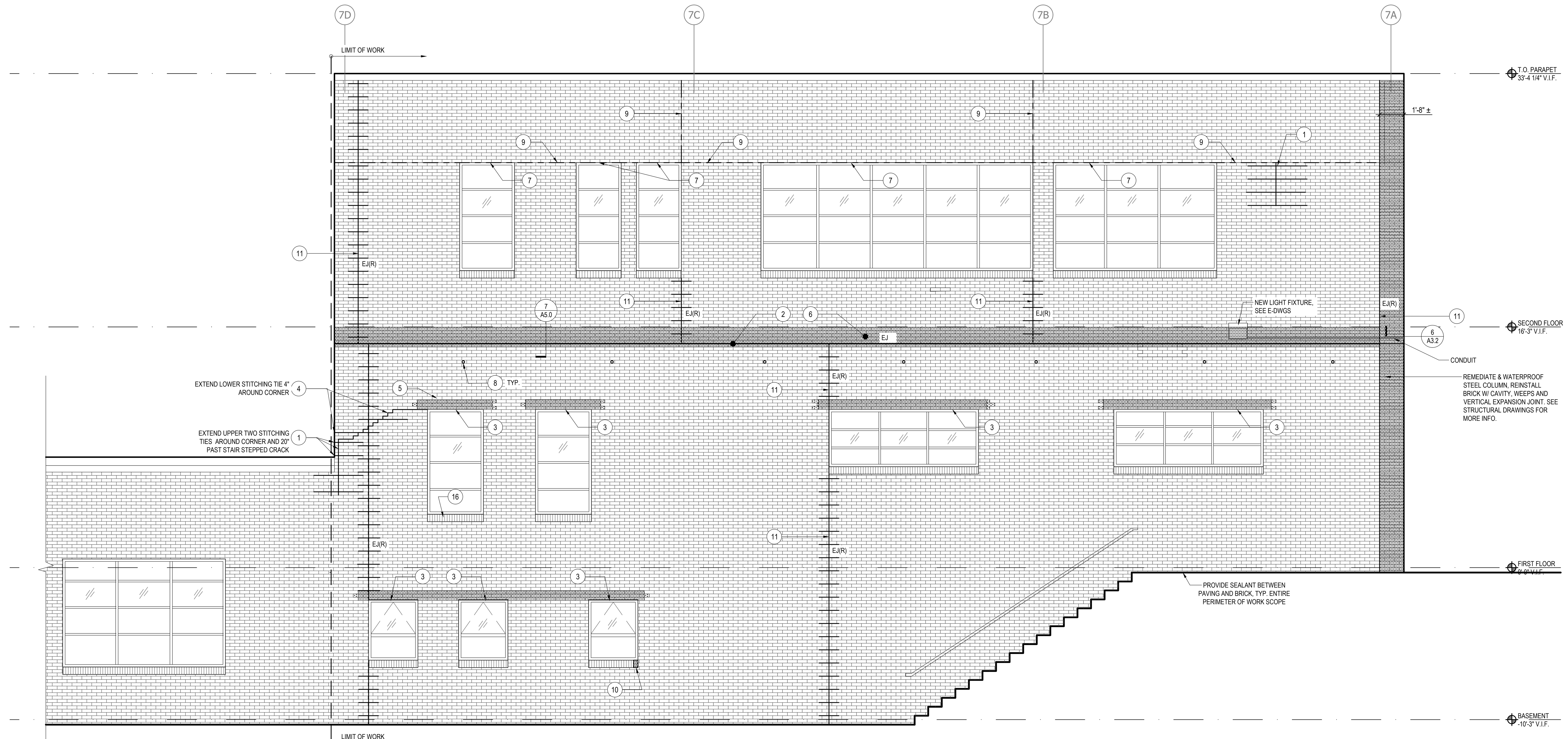


2 EAST ELEVATION
A3.1 SCALE: 1/4"=1'-0"



1 2ND FLOOR KEYMAP
A3.1 SCALE: 1/8" =1'-0"



3 NORTH ELEVATION
A3.1 SCALE: 1/4"=1'-0"

GENERAL NOTES:
BRICKS SHOWN ARE NOT TO SCALE

HATCH LEGEND
- EXISTING BRICK
- NEW BRICK
- INFILLED WINDOW
- EXISTING WALL (PLAN)

ELEVATION KEY NOTES

SYMBOL: (X)→

1. STITCH CRACK W/ HELICAL STITCHING TIES,EVERY 4 COURSES VERT, 20 INCH MIN EMBEDMENT EA. SIDE OF CRACK PER MANUFACTURER'S INSTRUCTIONS. REPOINT BED JOINTS AFTER INSTALLATION AND SEAL CLEANED VERTICAL CRACKS WITH HELIFIX CRACKBOND TE
2. NEW GALVANIZED, WATERPROOFED SHELF ANGLE, REINSTALL BRICK W/ FLASHING & WEEPS. PROVIDE HORIZONTAL EXPANSION JOINT ONE COURSE BELOW NEW ANGLE. SEE 7/A5.0 FOR BRICK SHELF ANGLE DETAIL
3. NEW GALVANIZED STEEL LINTEL W/ FLASHING, WEEPS AND NEW BRICK. REMOVE AND REINSTALL WINDOW INFILL IF PRESENT AND UNLESS NOTED OTHERWISE. SEE 8/A5.0
4. REMOVE EXISTING SEALANT AND STITCH STAIR-STEPPED CRACK W/ HELICAL TIES, EVERY 4 COURSES VERTICALLY, 20 INCH EMBEDMENT EA. SIDE OF CRACK. WHERE TIE EXTENDS THRU PROPOSED VERTICAL EXPANSION JOINT, PROVIDE DEBONDING SLEEVE ON 8" END ON OPPOSITE SIDE OF EXPANSION JOINT.
5. CLEAN CRACK THROUGH BRICK AND SEAL WITH INJECTABLE REPAIR CRACK REPAIR GROUT.
6. CLEAN EFFLORESCENCE
7. CLEAN, TREAT W/ RUST INHIBITOR, AND PAINT LINTEL.
8. REMOVE EXISTING METAL PROTRUSIONS. SEE BRICK REPAIR SPECIFICATIONS "ABANDONED ANCHOR REMOVAL" FOR MORE INFO.
9. EXISTING EXPANSION JOINT REMOVE EXISTING BACKER ROD AND SEALANT AND REPLACE W/ NEW.
10. TOOTH IN NEW BRICKS TO REPLACE SPALLED BRICKS.
11. PROVIDE RETROFITTED EXPANSION JOINT, SEE DETAIL 3/A5.0
12. PROVIDE EXPANSION JOINT IN NEW BRICK, SEE DETAIL 6/A5.0
13. PROVIDE NEW HORIZONTAL EXPANSION JOINT
14. EXISTING MASONRY OPENING COVERED W/ EXTERIOR GRADE PLYWOOD AND CLAD WITH LAPPED SHEET METAL. SEE DETAIL ELEVATION 13/A5.0
15. REPOINT BED JOINT
16. FLASH ALL SILLS AT INFILL PANEL LOCATIONS, 6"

GENERAL ELEVATION NOTES:

- RECAULK ALL EXISTING DOORS AND WINDOWS THAT ARE NOT INFILLED. (22 LOCATIONS)
- REPOINT ALL LIMESTONE & BRICK WINDOW SILLS.
- ALL METAL THROUGH PENETRATIONS TO REMAIN ARE TO BE CLEANED, TREATED WITH RUST INHIBITORS, AND SURROUNDING JOINTS SEALED. CLEAN IRON STAINING ON MASONRY.
- LOCATE HORIZONTAL EXPANSION JOINTS IMMEDIATELY BELOW SHELF ANGLES.

PROJECT COORDINATOR: FREDDA LIPPES

SEALS

SPACE FOR CONSULTANT RECOGNITION

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CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
CAPITAL PROJECTS DIVISION
1400 JFK BLVD 7TH FLR CITY HALL
PHILADELPHIA PENNSYLVANIA

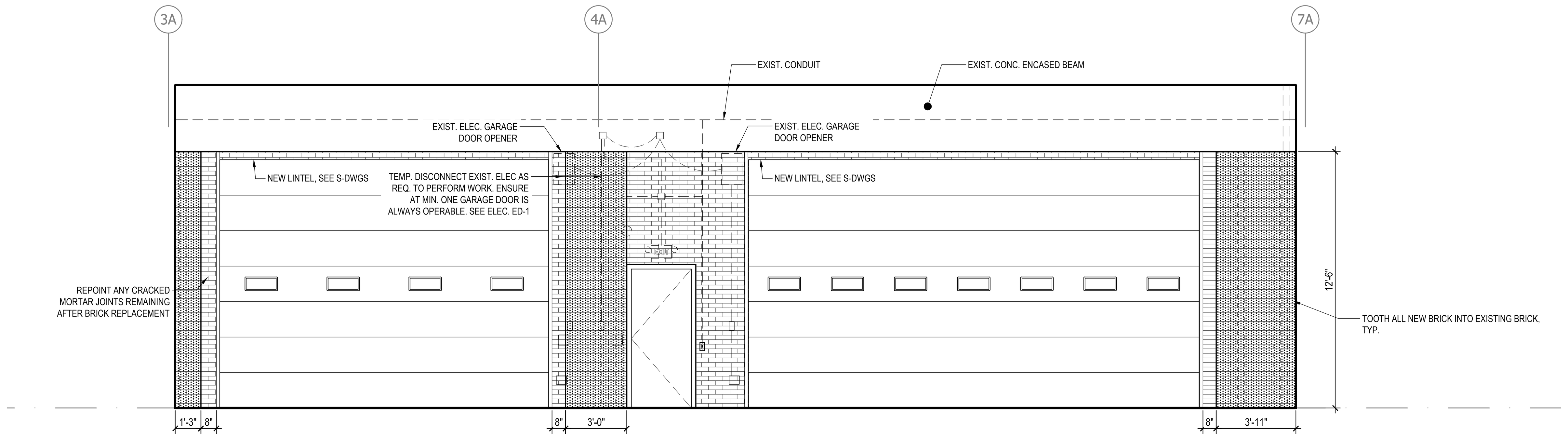
PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE: EXTERIOR ELEVATIONS

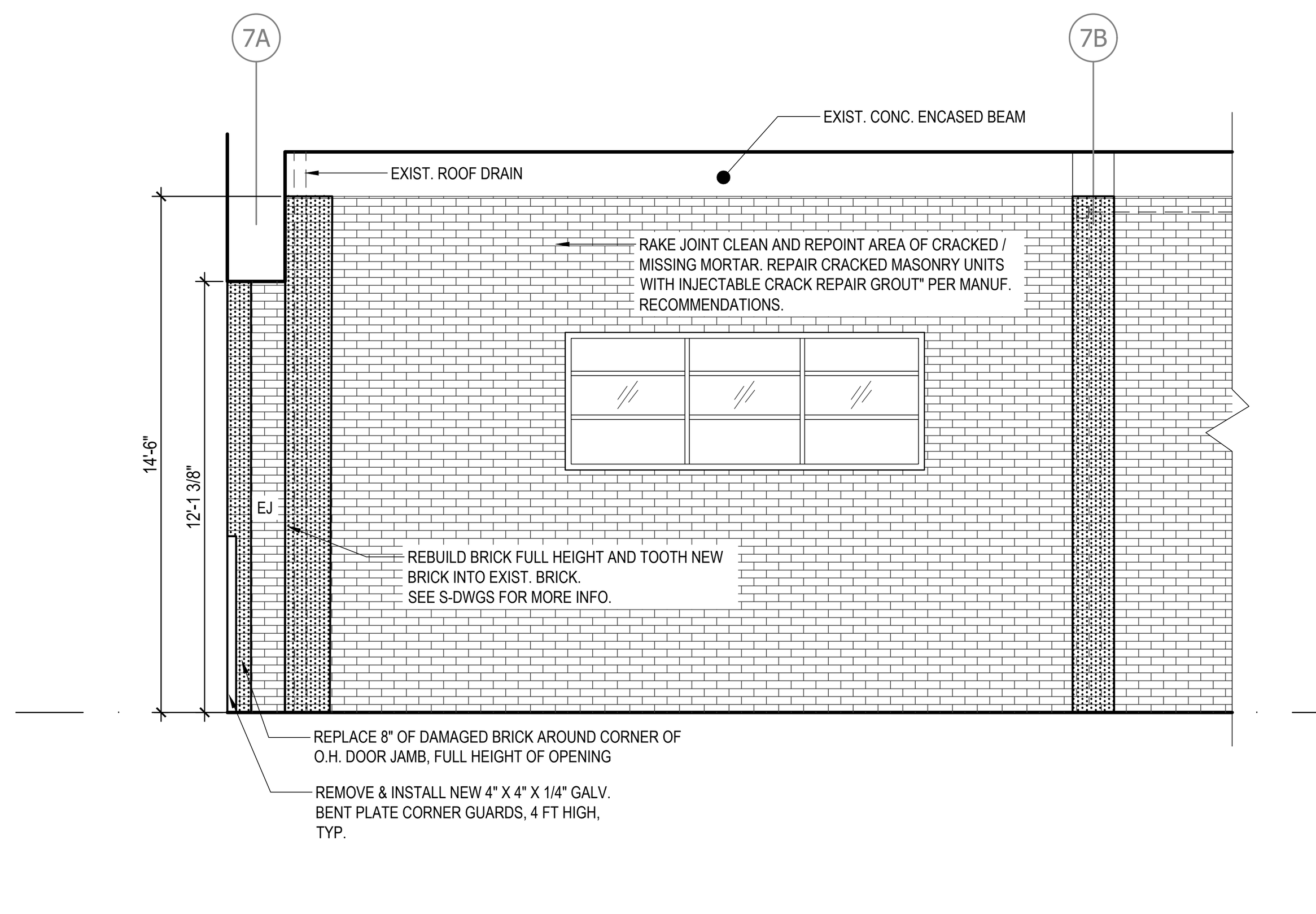
PROJECT NO.	DRAWING NO.
20-20-4897-01	A3.1
DATE: 12/07/2021	
SCALE: AS NOTED	
DRAWN BY: KK	
CHECKED BY: DS	FILE: F:\CPOFORMS\PREDESIGN\30x42DWGS

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

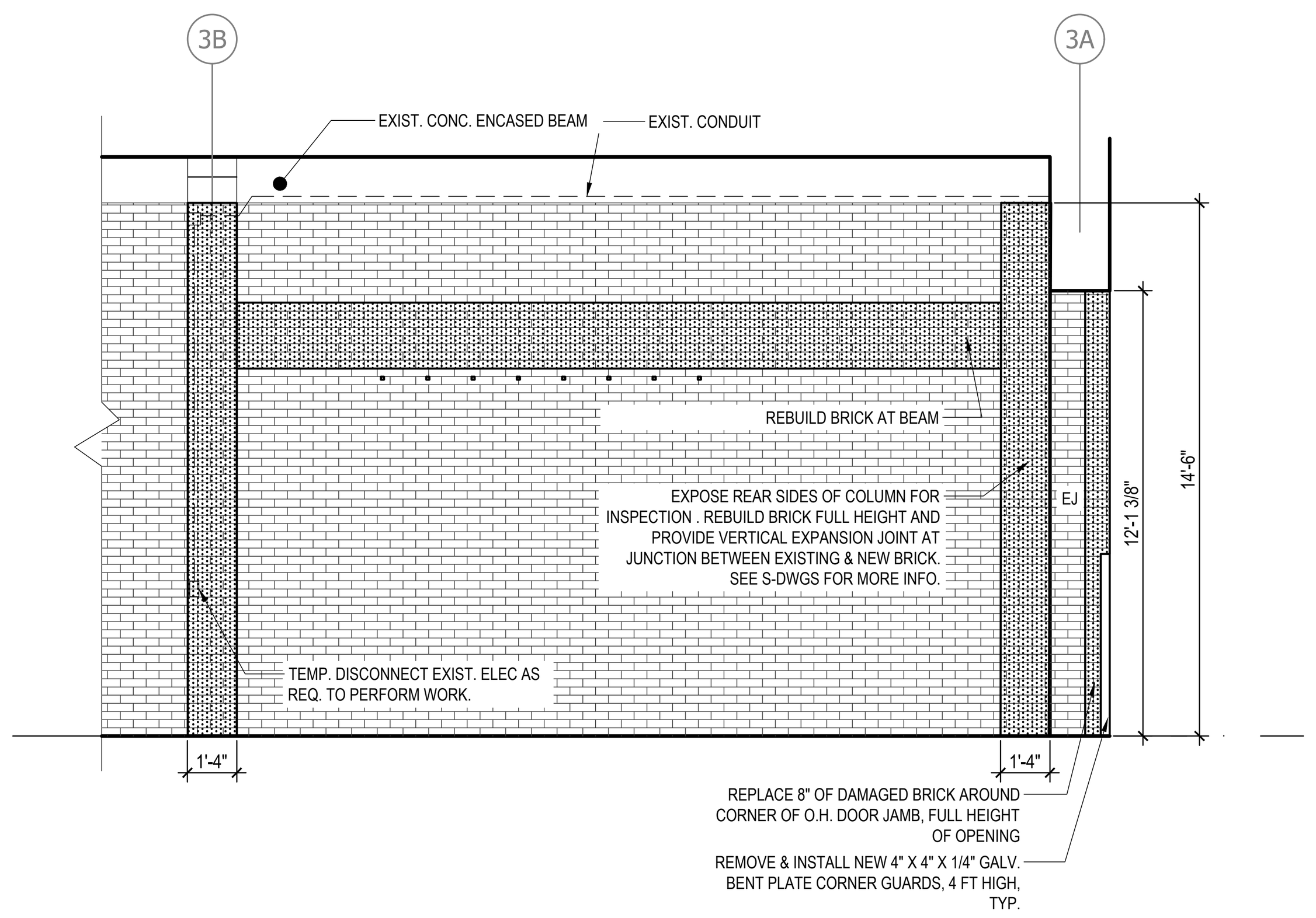
1 NOT USED
A3.2 SCALE:



2 INTERIOR GARAGE ELEVATION
A3.2 SCALE: 1/4"=1'-0"



3 INTERIOR GARAGE ELEVATION
A3.2 SCALE: 1/4"=1'-0"



4 INTERIOR GARAGE ELEVATION
A3.2 SCALE: 1/4"=1'-0"

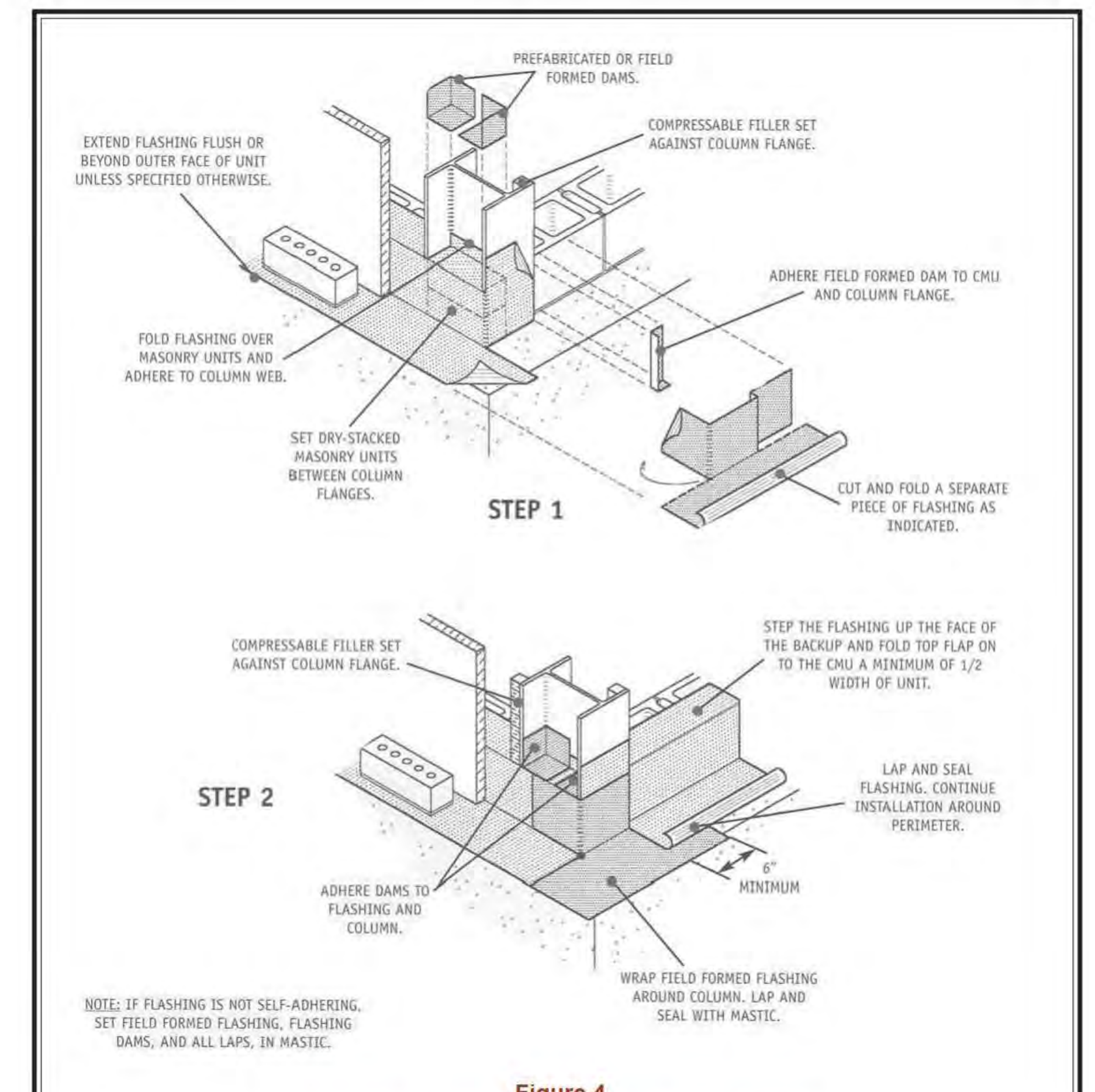


Figure 4
OUTER CORNER FLASHING AT WALL BASE

5 COLUMN FLASHING DETAILS
A3.2 SCALE: 3"=1'-0"

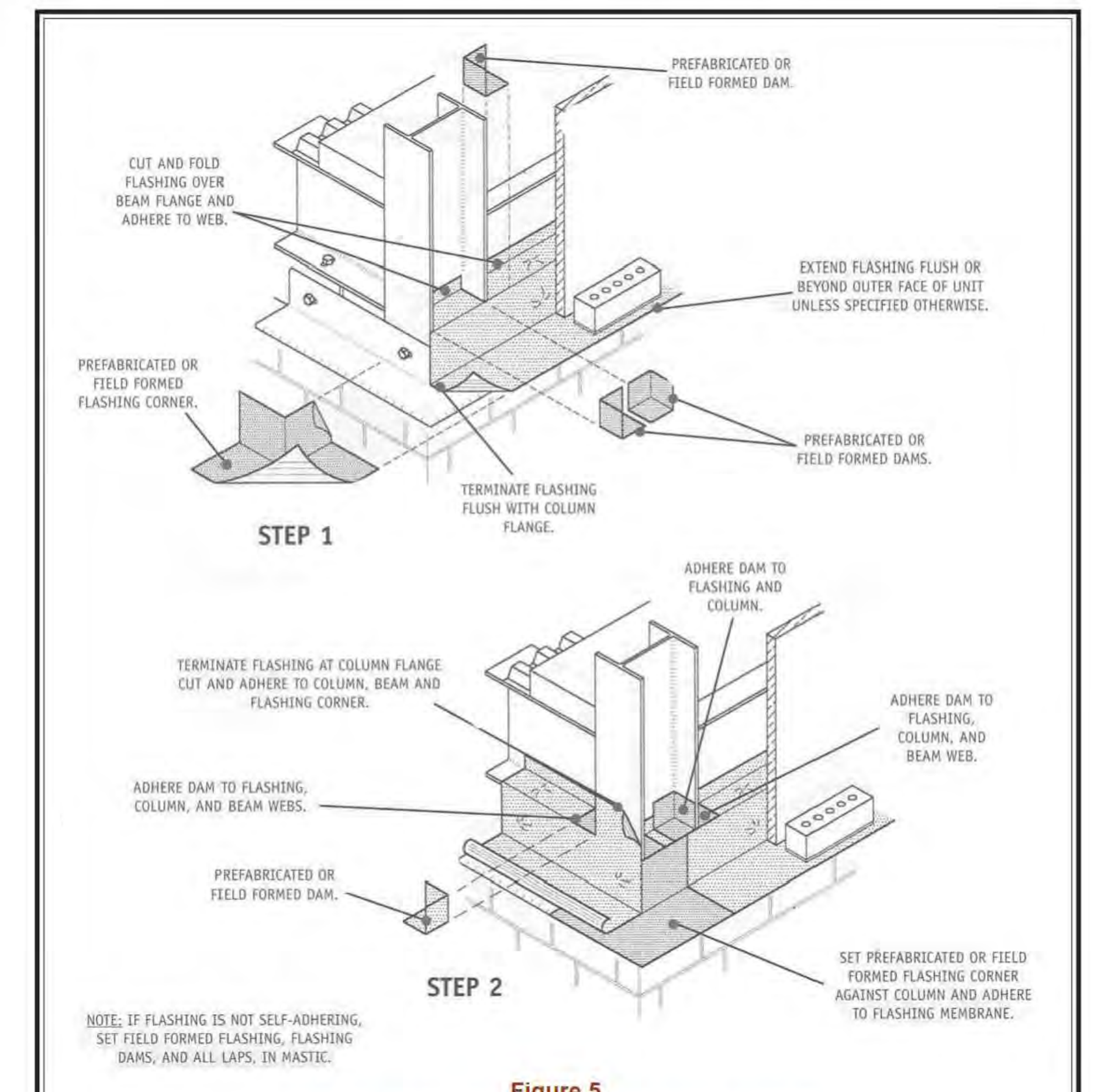
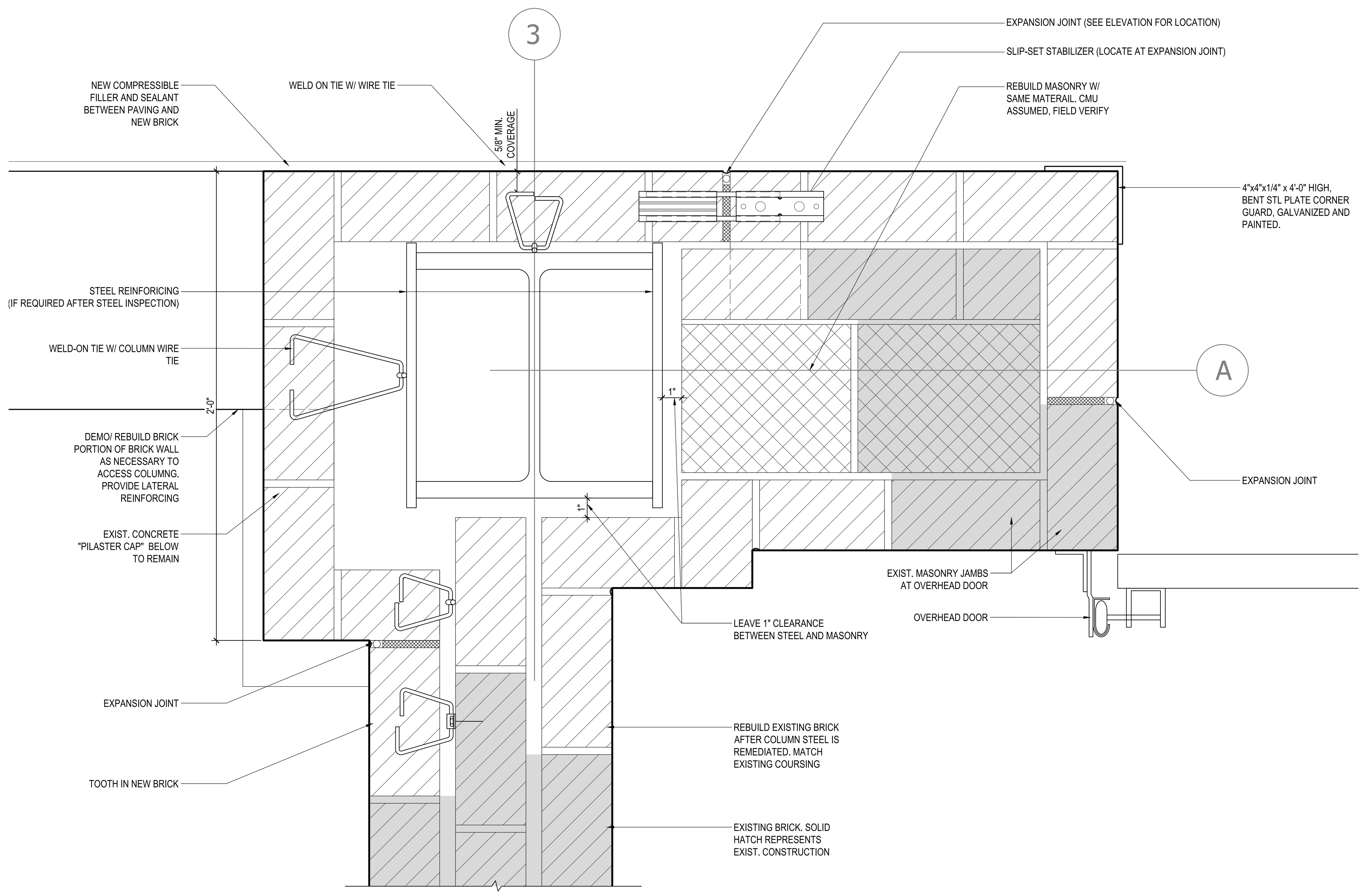
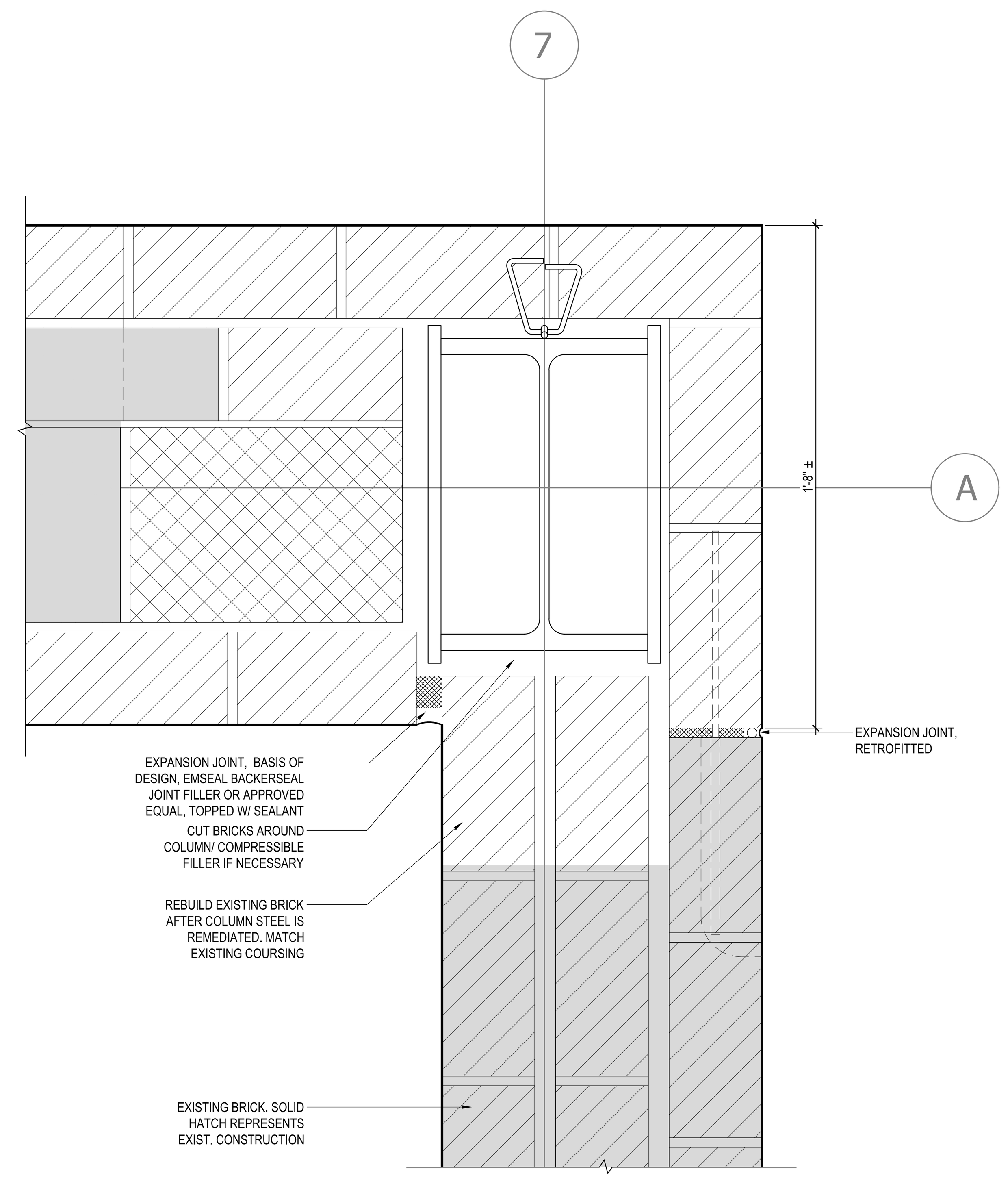


Figure 5
OUTER CORNER FLASHING AT SHELF ANGLE

6 COLUMN/SHLEF ANGLE FLASHING DETAILS
A3.2 SCALE: 3"=1'-0"



7 COLUMN DETAIL
A3.2 SCALE: 3"=1'-0"



8 COLUMN DETAIL
A3.2 SCALE: 3"=1'-0"

HATCH LEGEND
- EXISTING BRICK
- NEW BRICK
- INFILLED WINDOW
- EXISTING WALL (PLAN)

REVISIONS

ISSUE	DATE	REVISIONS
0	12/07/2021	BID/PERMIT SET

PROJECT COORDINATOR FREDDA LIPPES

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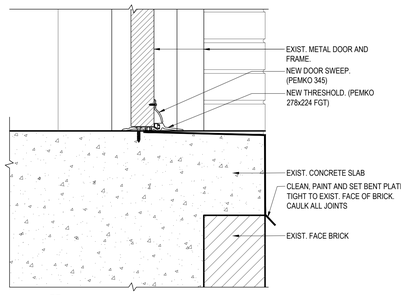
CAPITAL PROJECTS DIVISION
1400 JFK BLVD 7TH FLR CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
DPP ZONE 5 GARAGE RENOVATIONS

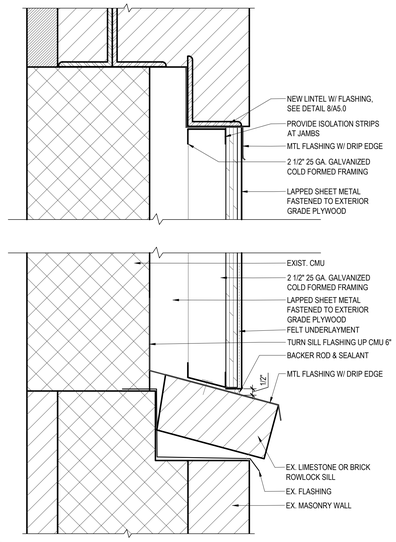
DRAWING TITLE
INTERIOR ELEVATIONS & DETAILS

PROJECT NO. 20-20-4897-01
DATE 12/07/2021
SCALE AS NOTED
DRAWN BY KK
CHECKED BY DS
DRAWING NO. A3.2

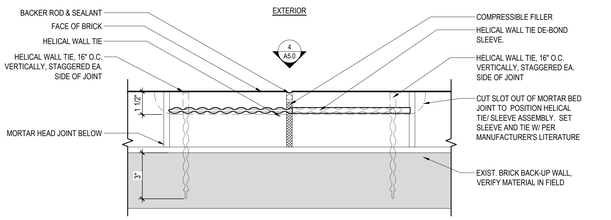
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



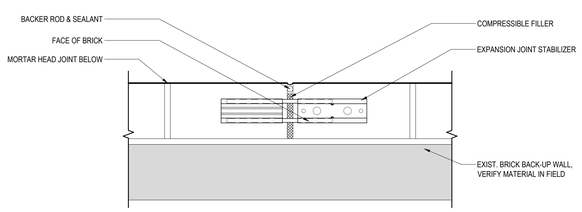
1 A5.0 NEW THRESHOLD DETAIL
SCALE: 3"=1'-0"



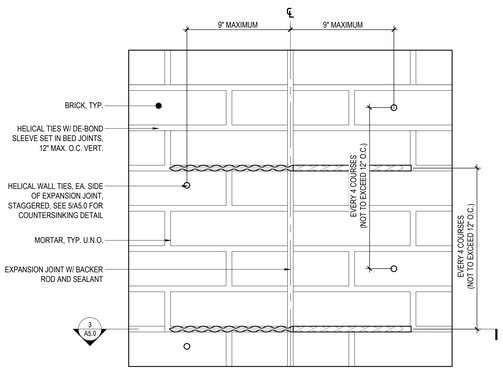
2 A5.0 WINDOW DETAIL
SCALE: 3"=1'-0"



3 A5.0 EXPANSION JOINT PLAN DETAIL (RETROFITTED)
SCALE: 3"=1'-0"



6 A5.0 EXPANSION JOINT PLAN DETAIL
SCALE: 3"=1'-0"



4 A5.0 EXPANSION JOINT ELEVATION DETAIL (RETROFITTED)
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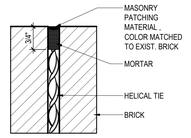
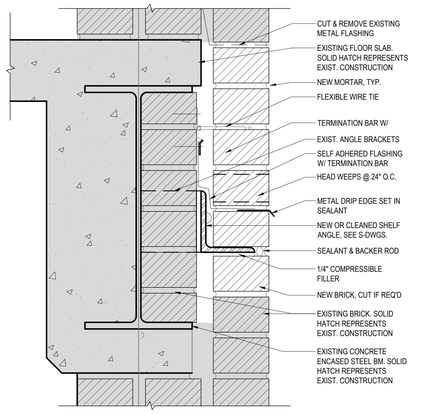
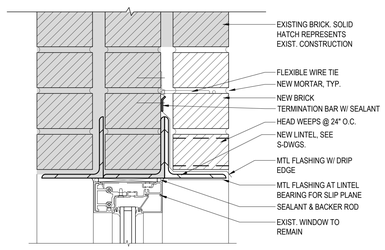


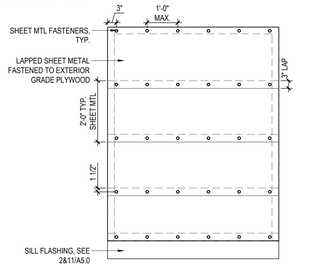
5 A5.0 COUNTERSINK DETAIL
SCALE: 6"=1'-0"



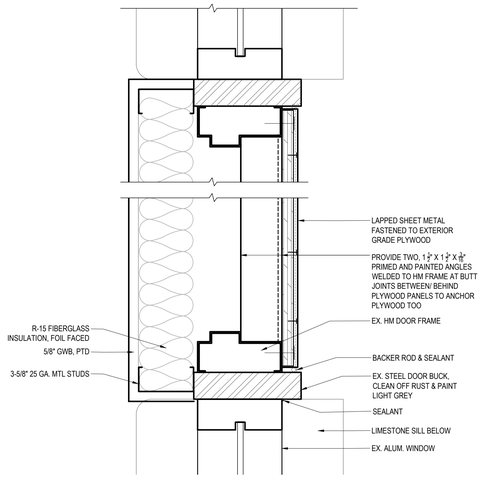
7 A5.0 BRICK SHELF ANGLE DETAIL
SCALE: 3"=1'-0"



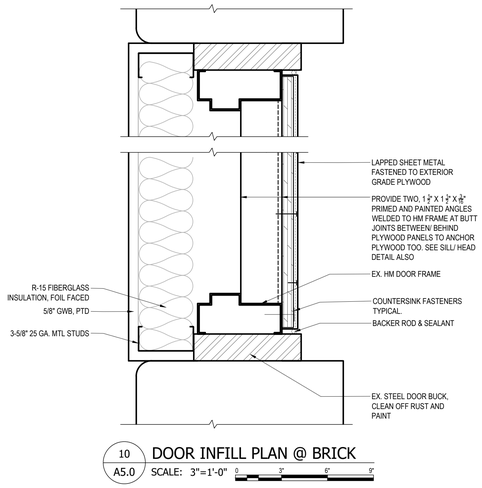
8 A5.0 LINTEL DETAIL
SCALE: 3"=1'-0"



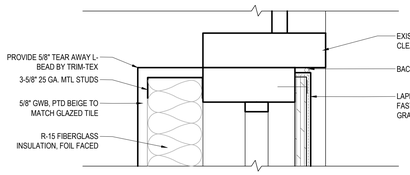
13 A5.0 INFILL ELEVATION
SCALE: 1/2"=1'-0"

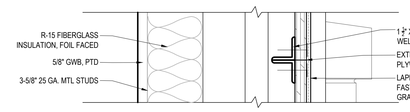


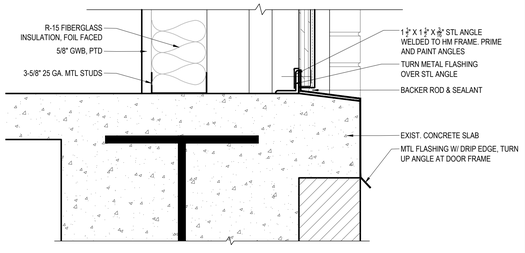
9 A5.0 DOOR INFILL PLAN @ WINDOWS
SCALE: 3"=1'-0"



10 A5.0 DOOR INFILL PLAN @ BRICK
SCALE: 3"=1'-0"







11 A5.0 DOOR SILL DETAIL
SCALE: 3"=1'-0"

REVISIONS

ISSUE	DATE	REVISIONS
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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE: DETAILS

PROJECT NO. 20-20-4897-01
DRAWING NO. A5.0
DATE 12/07/2021
SCALE AS NOTED
DRAWN BY KK
CHECKED BY DS
FILE P:\Corporate\Projects\20-20-4897

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

DESIGN CRITERIA NOTES:

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.

   INTERNATIONAL BUILDING CODE, 2018 EDITION
   ASCE 7-16 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
   AISC 360-16 – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
   AISC 303-16 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
   ACI 318-14 – BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND MASONRY
   TMS 402/602-16 – SPECIFICATION OF MASONRY STRUCTURES

2. DESIGN LOADS ARE AS LISTED BELOW.

   WIND LOADS:
   - BASIC WIND SPEED, V (ULT) = 125 MPH
   - RISK CATEGORY = IV
   - WIND EXPOSURE = B
   - APPLICABLE INTERNAL PRESSURE COEFFICIENT +/- 0.18

   SEISMIC LOADS:
   - RISK CATEGORY = IV
   - IMPORTANCE FACTOR = 1.5
   - MAPPED SPECTRAL RESPONSE ACCELERATIONS:
     - Ss=18.3%g
     - S1=4.8%g
   - SPECTRAL RESPONSE COEFFICIENTS:
     - SDS=19.5%g
     - SD1=7.6%g
   - SITE CLASS = D
   - SEISMIC DESIGN CATEGORY = B

   SNOW LOADS:
   - GROUND SNOW LOAD Pg=25 PSF
   - FLAT ROOF SNOW LOAD = 21 PSF + DRIFT
   - EXPOSURE FACTOR Ce=1.0
   - IMPORTANCE FACTOR = 1.2
   - THERMAL FACTOR Ct=1.0

SPECIAL INSPECTION:

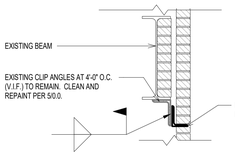
1. SPECIAL INSPECTION BY A QUALIFIED INSPECTOR APPROVED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK:
   - A. FABRICATED STRUCTURAL STEEL
   - B. WELDING:
     - a. STRUCTURAL STEEL
   - E. ANCHOR BOLTS
   - F. HIGH STRENGTH BOLTING
   - G. STRUCTURAL MASONRY
   - H. EXPANSION TYPE ANCHOR BOLTS
   - I. ADHESIVE TYPE ANCHOR BOLTS

MISCELLANEOUS NOTES:

1. THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS. DO NOT SCALE THE DRAWINGS.
3. THE STRUCTURAL DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS AND DO NOT BY THEMSELVES PROVIDE ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT. PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL AND ELECT'L DRAWINGS FOR SLEEVES, CURBS, INSERTS, OTHER OPENINGS, AND SLAB DEPRESSIONS NOT SHOWN. THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH ANY WORK.
4. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCH'L AND ELEC'L. DRAWINGS TO CONFIRM ALL REQUIREMENTS OF THE WORK. REPORT ANY CONFLICT/DISCREPANCY BETWEEN THE DISCIPLINES TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL ELEMENTS. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
5. THE HORIZONTAL AND VERTICAL DIMENSIONS OF EXISTING STRUCTURES SHALL BE VERIFIED BEFORE WORK IS BEGUN. ANY VARIATION BETWEEN DIMENSIONS SHOWN AND EXISTING DIMENSIONS SHALL BE REPORTED TO THE ARCHITECT.
6. THE CONTRACTOR SHALL INSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT PUT ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT THE CONCRETE REACHES THE FULL DESIGN STRENGTH AND ALL FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE.
7. ALL STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LOADS LISTED ONLY AS COMPLETED STRUCTURES. THE GENERAL CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT WORK IN PROGRESS UNTIL THE STRUCTURES ARE COMPLETED. THE GENERAL CONTRACTOR SHALL ALSO INSURE THAT ITS OPERATIONS AND PROCEDURES PROVIDE NO LOADING GREATER THAN THE DESIGN LOADS LISTED ON ANY MEMBER.
8. PROVIDE CHAMFERS AS SPECIFIED AND/OR DETAILED ON THE ARCHITECTURAL DRAWINGS. CHAMFERS HAVE NOT BEEN SHOWN ON THE STRUCTURAL DRAWINGS.
9. ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.

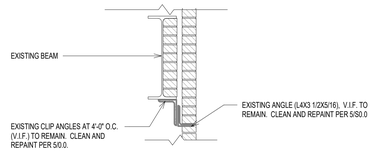
SECLECTIVE DEMOLITION NOTES:

1. REMOVAL AS DESCRIBED HEREIN SHALL BE ACCOMPLISHED WITHOUT STORING ON THE FLOOR EXCESSIVE QUANTITIES OF ANY MATERIALS, RUBBISH, DIRT, DEBRIS, OR WASTE OF ANY SORT RESULTING FROM THE REMOVAL OPERATIONS ON THE FLOOR.
2. ALL DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION SITE DAILY.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN FREE PROTECTED ACCESS OF ALL TENANTS AND SERVICE PERSONNEL THROUGH THE AREAS INVOLVED.
4. THE CONTRACTOR SHALL REMOVE ALL PIPE SLEEVES PROJECTING THROUGH SLAB; PATCH ALL PENETRATIONS, HOLES, ETC.
5. ALL PIPES AND CONDUITS IN WALLS THAT ARE TO BE DEMOLISHED ARE TO BE REMOVED AND/ OR RELOCATED AS REQUIRED.
6. CONTRACTOR SHALL REVIEW WITH ARCHITECTS/ ENGINEER ANY AND ALL ITEMS OF DEMOLITION NOT IMPLIED OR SPECIFIED ON DRAWINGS OR SPECIFICATIONS AND TO INCLUDE SUCH COSTS IN BID UNLESS OTHERWISE ADVISED.
7. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES AND PERFORM ALL OPERATIONS REQUIRED FOR SELECTIVE INTERIOR DEMOLITION AND RELATED WORK AS DESCRIBED AND SPECIFIED HEREIN, AND AS MAY BE REASONABLY IMPLIED AS NECESSARY TO COMPLETE WORK IN ALL RESPECTS.
8. JOBSITE INSPECTION MUST BE CONDUCTED TO EXAMINE EXISTING CONDITIONS, TO DETERMINE NATURE AND SCOPE OF WORK OR ANY DIFFICULTIES THAT MIGHT ARISE AT TIME OF WORK. IN ADDITION, EXAMINE ALL WORK THAT IS INTENDED TO REMAIN AS PART OF THE COMPLETED PROJECT AND REPORT ALL UNSATISFACTORY CONDITIONS TO ARCHITECT/ ENGINEER PRIOR TO COMMENCEMENT OF WORK. EXERCISE EXTREME CARE DURING DEMOLITION SO AS NOT TO DAMAGE CONSTRUCTION AND OTHER STRUCTURES THAT ARE INTENDED TO REMAIN. ANYTHING DAMAGED AT WORK IS TO BE REPAIRED AND/ OR REPLACED TO MATCH EXISTING CONSTRUCTION AT CONTRACTORS EXPENSE.
9. REFER TO DRAWINGS FOR EXISTING ITEMS/ SYSTEMS TO REMAIN.
10. CONTRACTOR TO PROVIDE DUST BARRIER FOR PROTECTION OF EXISTING AREAS TO REMAIN AS REQUIRED.
11. WHEN DEMOLITION TAKES PLACE, SHOULD ANY WORK AFFECT THE INTEGRITY OF THE STRUCTURE, WORK MUST STOP IMMEDIATELY, AND ARCHITECT/ ENGINEER NOTIFIED. UNDER NO CIRCUMSTANCES SHALL REINFORCING OF ANY KIND BE DAMAGED, CUT OR BROKEN.
12. PRIOR TO DEMOLITION OF LOAD BEARING MEMBERS, SUPPORTED MEMBERS SHALL BE SHORED.



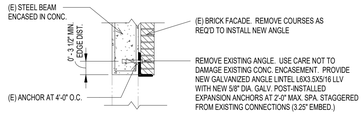
NOTE: SEE ARCH'L DRAWINGS FOR ADDITIONAL DETAILS

8 S0.0 SHELF ANGLE REPLACE DETAIL (STEEL CONNECTION)
1" = 1'-0"



NOTE: SEE ARCH'L DRAWINGS FOR ADDITIONAL DETAILS

7 S0.0 SHELF ANGLE REPAIR DETAIL (STEEL CONNECTION)
1" = 1'-0"



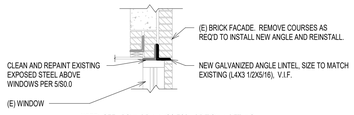
NOTE: SEE ARCH'L DRAWINGS FOR ADDITIONAL DETAILS

6 S0.0 NEW LINTEL DETAIL (CONC BEAM)
3/4" = 1'-0"

STEEL REMEDIATION NOTES:

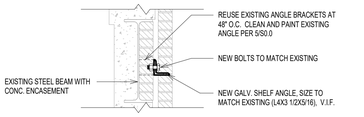
- REFER TO PLANS FOR APPROXIMATE LOCATION OF STEEL TO BE REMEDIATED.
- MECHANICALLY CLEAN EXPOSED STEEL TO SSPC-SP3 AND INSPECT STEEL FOR SECTION LOSS ALONG FULL LENGTH OF MEMBER.
- IF NO SECTION LOSS IS FOUND, THE STEEL SHALL BE PAINTED WITH AN EPOXY MASTIC PAINT, SUCH AS CARBOMASTIC 15, OR AN APPROVED EQUAL, PER MANUFACTURER RECOMMENDATIONS.
- IF SECTION LOSS IS FOUND, NOTIFY DESIGN PROFESSIONAL.

5 S0.0 STEEL REMEDIATION NOTES
3/4" = 1'-0"



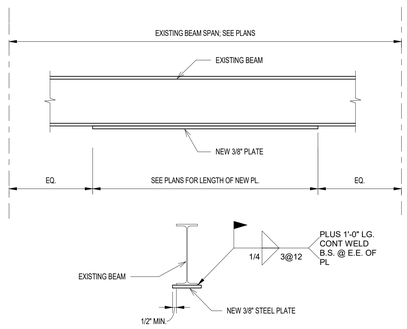
NOTE: SEE ARCH'L DRAWINGS FOR ADDITIONAL DETAILS

4 S0.0 NEW LINTEL DETAIL (LOOSE LINTEL)
3/4" = 1'-0"



NOTE: SEE ARCH'L DRAWINGS FOR ADDITIONAL DETAILS

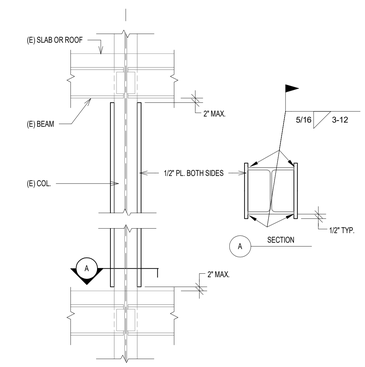
3 S0.0 NEW SHELF ANGLE DETAIL (SECOND FLOOR)
1" = 1'-0"



BEAM REINF NOTES:

- REFER TO PLANS FOR APPROXIMATE LOCATION OF REINFORCING REQUIRED.
- MECHANICALLY CLEAN WEB AND FLANGES OF BEAM TO SSPC-SP3 AND INSPECT BEAM FOR SECTION LOSS ALONG FULL LENGTH OF MEMBER.
- IF NO SECTION LOSS IS FOUND, THE BEAM SHALL BE PAINTED WITH AN EPOXY MASTIC PAINT, SUCH AS CARBOMASTIC 15, OR AN APPROVED EQUAL.
- IF SECTION LOSS IS FOUND, REINFORCE BEAM PER THE DETAIL ABOVE. FINAL EXTENT AND LAYOUT OF REPAIR SHALL BE VERIFIED IN FIELD BY THE ENGINEER.

2 S0.0 EXISTING BEAM REINFORCEMENT
3/4" = 1'-0"



COLUMN REINF. NOTES:

- REFER TO PLANS FOR APPROXIMATE LOCATION OF REINFORCING REQUIRED.
- MECHANICALLY CLEAN WEB AND FLANGES OF COLUMN TO SSPC-SP3 AND INSPECT COLUMN FOR SECTION LOSS ALONG FULL LENGTH OF MEMBER.
- IF NO SECTION LOSS IS FOUND, THE COLUMN SHALL BE PAINTED WITH AN EPOXY MASTIC PAINT, SUCH AS CARBOMASTIC 15, OR AN APPROVED EQUAL.
- IF SECTION LOSS IS FOUND, REINFORCE COLUMN PER THE DETAIL ABOVE. FINAL EXTENT AND LAYOUT OF REPAIR SHALL BE VERIFIED IN FIELD BY THE ENGINEER.

1 S0.0 EXISTING COLUMN REINFORCEMENT
3/4" = 1'-0"

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION - FROM AISC STEEL CONSTRUCTION MANUAL - CHAPTER N - QUALITY CONTROL AND QUALITY ASSURANCE (AISC 360-10)

TABLE N5.4-1 - INSPECTION TASKS PRIOR TO WELDING

INSPECTION TASK PRIOR TO WELDING	QUALITY CONTROL	QUALITY ASSURANCE
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
WELDER IDENTIFICATION SYSTEM (SEE NOTE 1)	O	O
FIT - UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACE) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE)	O	O
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
FIT - UP OF FILLET WELDS DIMENSIONS (ALIGNMENT, GAPS OF ROOT CLEANLINESS (CONDITION OF STEEL SURFACE) TACKING (TACK WELD QUALITY AND LOCATION)	O	O
CHECK WELDING EQUIPMENT	O	---

NOTE 1 - THE FABRICATOR OF ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW - STRESS TYPE.

TABLE N5.4-2 - INSPECTION TASKS DURING WELDING

INSPECTION TASK DURING WELDING	QUALITY CONTROL	QUALITY ASSURANCE
USE OF QUALIFIED WELDERS	O	O
CONTROL AND HANDLING OF WELDING CONSUMABLES PACKAGING EXPOSURE CONTROL	O	O
NO WELDING OVER CRACKED TACK WELDS	O	O
ENVIRONMENTAL CONDITIONS WIND SPEED WITHIN LIMITS PRECIPITATION AND TEMPERATURE	O	O
WPS FOLLOWED SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX) PROPER POSITION (F, V, H, OH)	O	O
WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS	O	O

TABLE N5.4-3 - INSPECTION TASKS AFTER WELDING

INSPECTION TASK DURING WELDING	QUALITY CONTROL	QUALITY ASSURANCE
WELDS CLEANED	O	O
SIZE, LENGTH, AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION WELD/BASE-METAL FUSION CRATER CROSS-SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY	P	P
ARC STRIKES	P	P
k-AREA (SEE NOTE 1)	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
REPAIR ACTIVITIES	P	P
DOCUMENT ACCEPTANCE OF REJECTION OF WELDED JOINT OR MEMBER	P	P

NOTE 1 - WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PREFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 in. (75mm) OF THE WELD.

TABLE N5.6-1 - INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	O
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O

TABLE N5.6-2 - INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARDS THE FREE EDGES	O	O

TABLE N5.6-2 - INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS AFTER BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

TABLE N6.1 - INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT

INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT	QUALITY CONTROL	QUALITY ASSURANCE
PLACEMENT AND INSTALLATION OF STEEL DECK	P	P
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	P	P

NOTES:

1. THESES TABLES WERE TAKEN FROM THE 14TH EDITION AISC STEEL CONSTRUCTION MANUAL - CHAPTER N - QUALITY CONTROL AND QUALITY ASSURANCE
2. P USED IN THE ABOVE TABLE STANDS FOR "PERFORM THESE TASKS FOR EACH WELDED CONNECTION, BOLTED CONNECTION, OR STEEL ELEMENT"
3. O USED IN THE ABOVE TABLE STANDS FOR "OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS"

REVISIONS

ISSUE	DATE	REVISIONS
0	12/07/2021	BID/PERMIT SET

PROJECT COORDINATOR: FREDDA LIPPES

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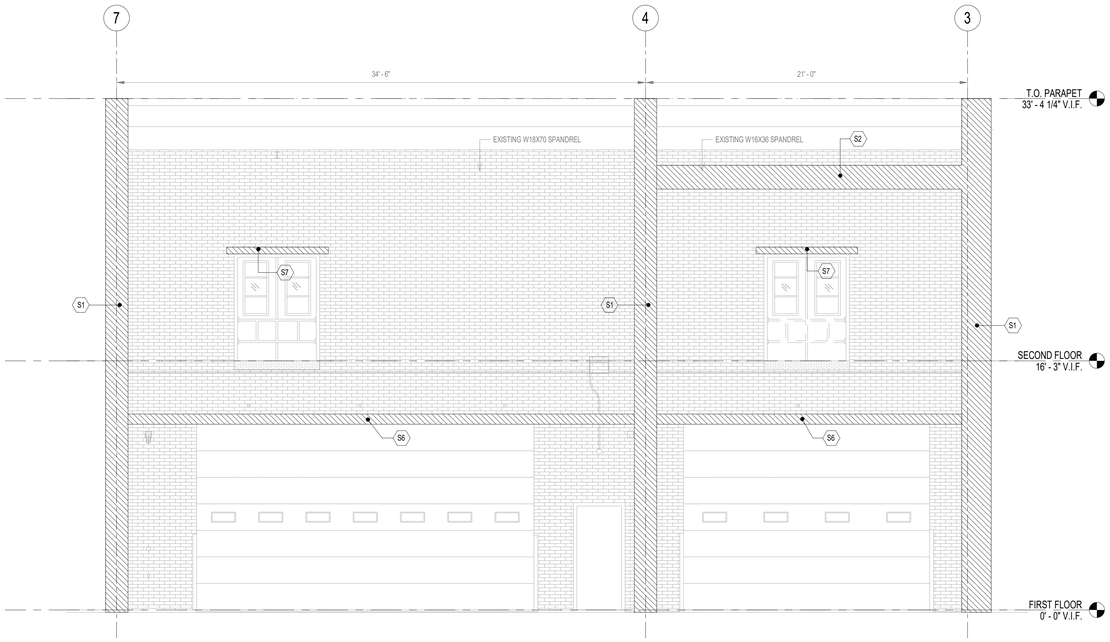
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

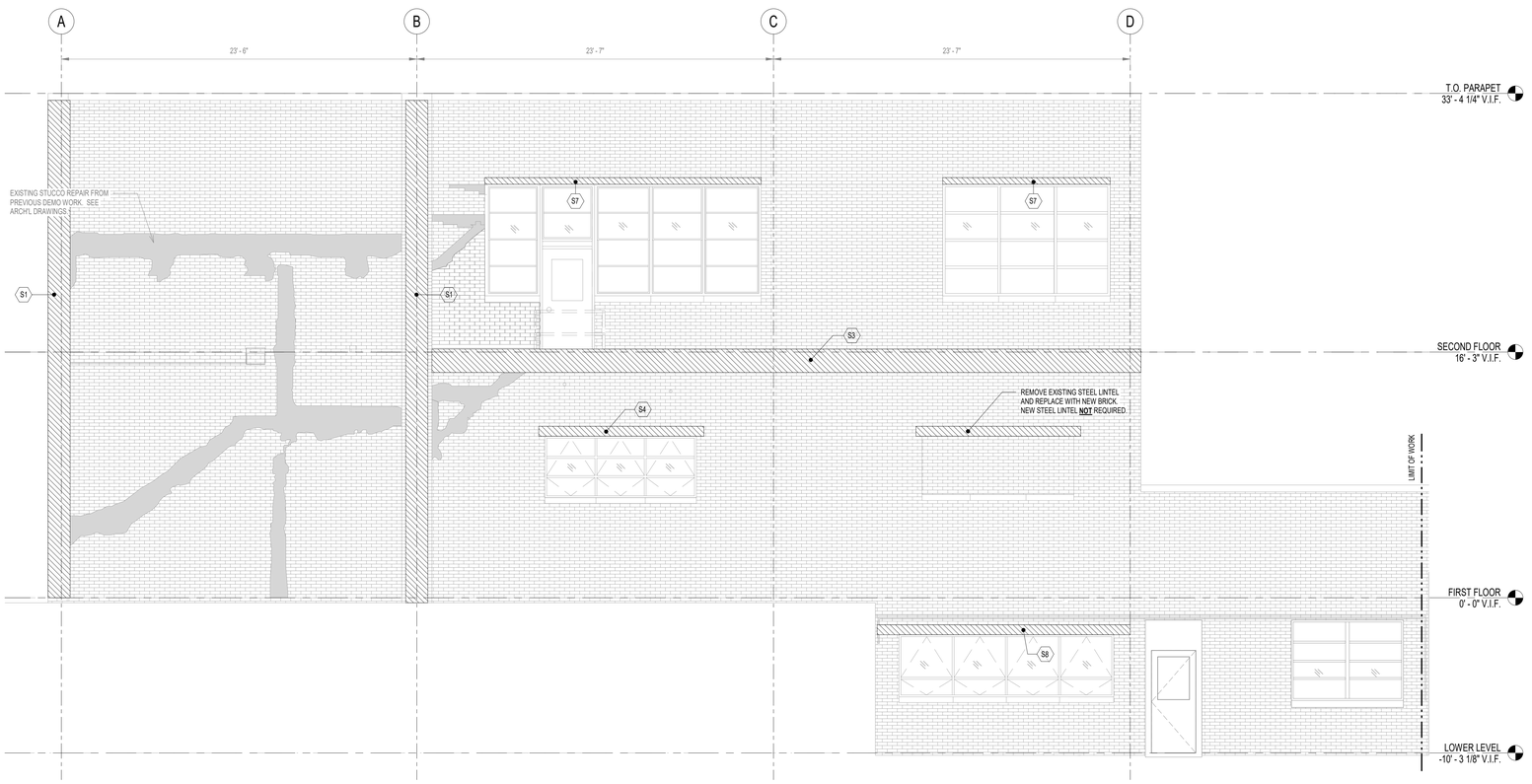
DRAWING TITLE: STRUCTURAL GENERAL NOTES

PROJECT NO.: 20-20-4897-01
DRAWING NO.: S0.0
DATE: 12/07/2021
SCALE: AS NOTED
DRAWN BY: CJW
CHECKED BY: NB
WZG PROJECT NO: 207

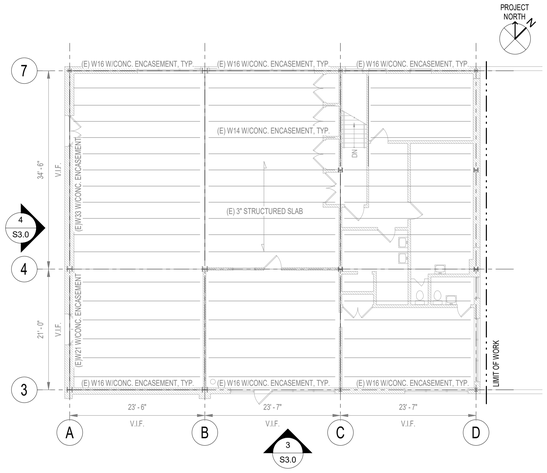
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE SITE BEFORE PROCEEDING WITH ANY WORK.



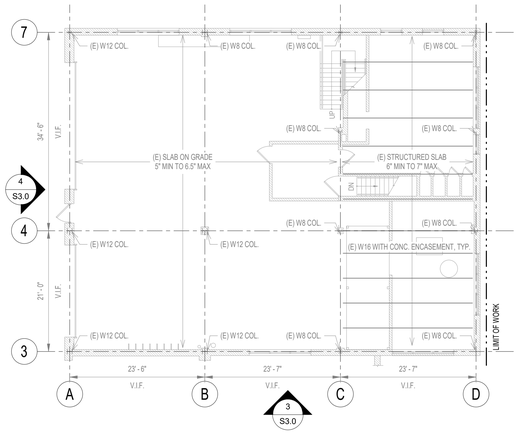
4 S3.0 WEST ELEVATION
1/4" = 1'-0"



3 S3.0 SOUTH ELEVATION
1/4" = 1'-0"



2 S3.0 2ND FLOOR KEYMAP
3/32" = 1'-0"



1 S3.0 1ST FLOOR KEYMAP
3/32" = 1'-0"

STRUCTURAL NOTES:

1. DIAGONAL DOWN HATCH PATTERN INDICATES AREA OF STRUCTURAL REPAIRS REQUIRED. SEE REPAIR SCHEDULE FOR FURTHER INFORMATION.
2. ALL EXPOSED STEEL SHALL BE GALVANIZED.
3. ALL EXISTING DIMENSIONS AND FRAMING SHALL BE FIELD VERIFIED.

STRUCTURAL REPAIR SCHEDULE

MARK	REPAIR	DETAIL
S1	CLEAN AND PAINT STEEL COLUMN AND REINFORCE PER DETAIL REFERENCED.	1/S0.0
S2	CLEAN AND PAINT STEEL BEAM AND REINFORCE PER REFERENCED DETAIL.	2/S0.0
S3	REPLACE EXISTING SHELF ANGLE IN KIND WITH GALVANIZED ANGLE. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	3/S0.0
S4	REPLACE EXISTING ANGLE IN KIND WITH GALVANIZED LINTEL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	4/S0.0
S5	CLEAN AND PAINT EXISTING STEEL LINTEL OR SHELF ANGLE PER DETAIL REFERENCED.	5/S0.0
S6	REPLACE EXISTING ANGLE PER DETAIL WITH GALVANIZED LINTEL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	6/S0.0
S7	CLEAN EXISTING SHELF ANGLE PER DETAIL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	7/S0.0
S8	REPLACE EXISTING ANGLE PER DETAIL WITH GALVANIZED LINTEL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	8/S0.0

REVISIONS

ISSUE	DATE	REVISIONS
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PROJECT COORDINATOR: FREDDA LIPPES

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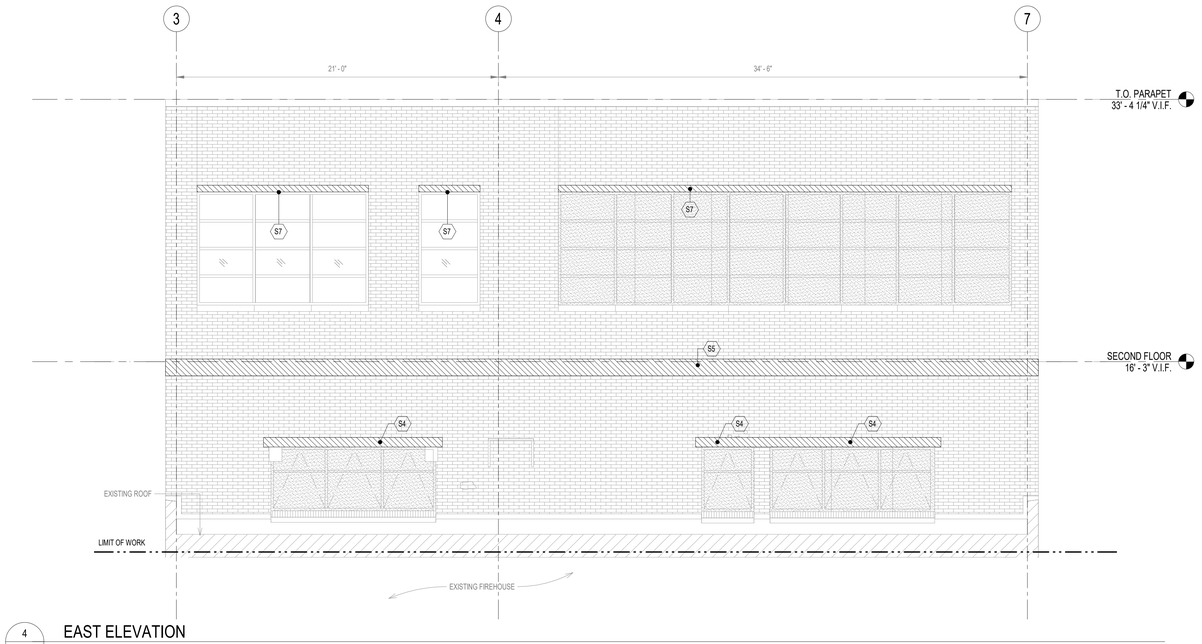
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

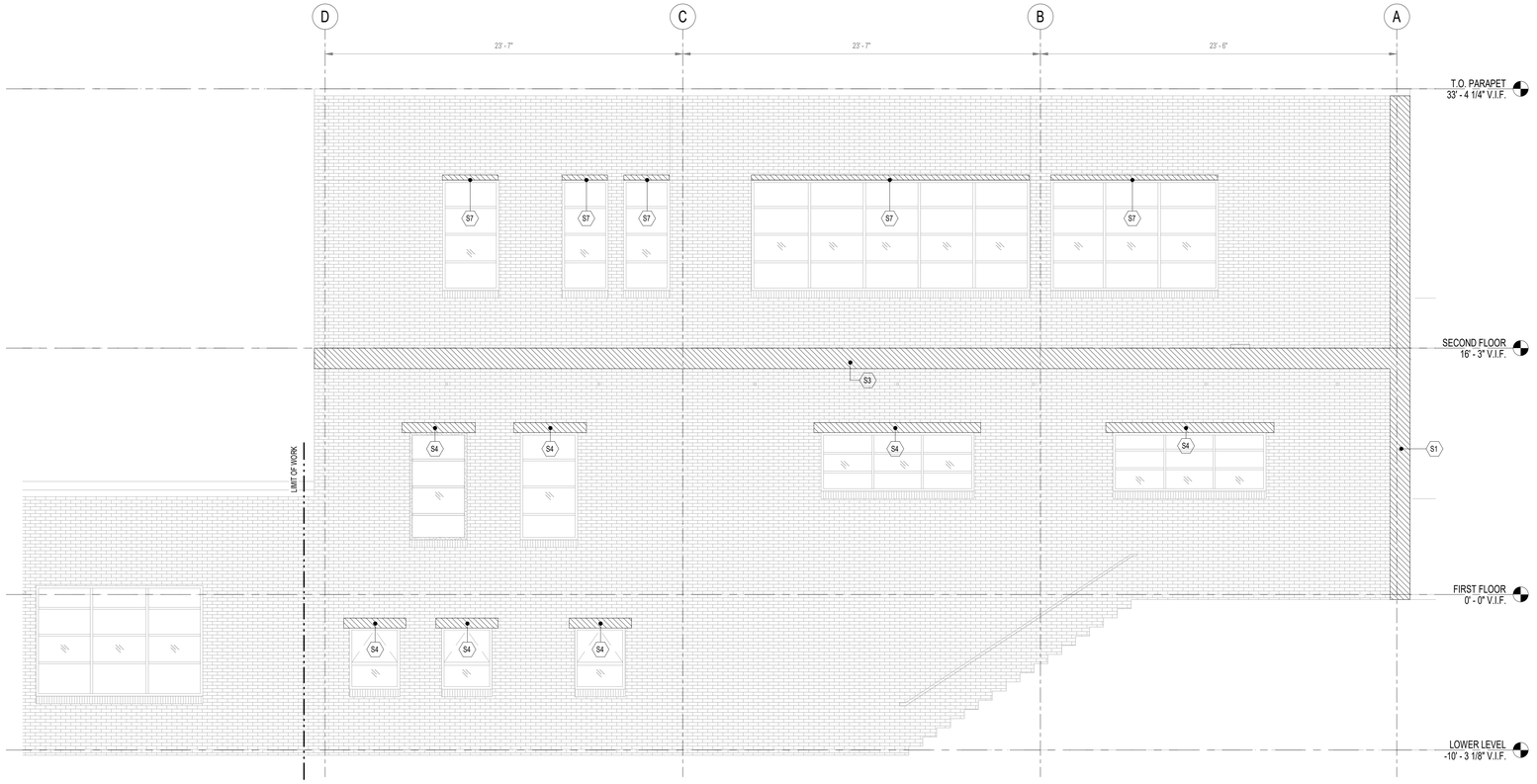
DRAWING TITLE: STRUCTURAL PLANS AND ELEVATIONS

PROJECT NO.: 20-20-4897-01
DRAWING NO.: S3.0
DATE: 12/07/2021
SCALE: AS NOTED
DRAWN BY: CJW
CHECKED BY: NB
WZG PROJECT NO. 297

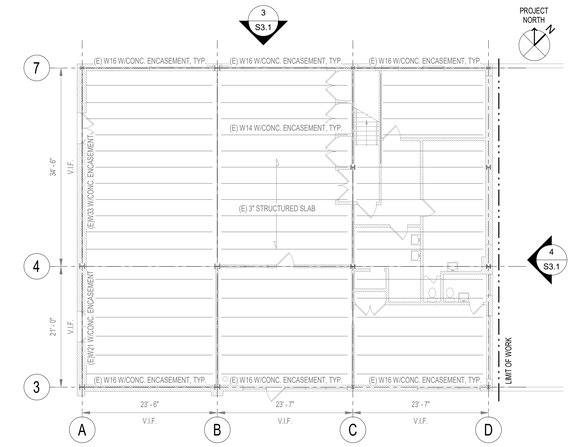
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



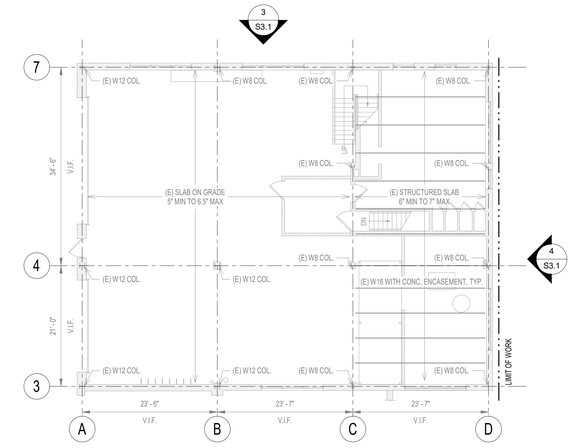
4 S3.1 **EAST ELEVATION**
1/4" = 1'-0"



3 S3.1 **NORTH ELEVATION**
1/4" = 1'-0"



2 S3.1 **2ND FLOOR KEYMAP**
3/32" = 1'-0"



1 S3.1 **1ST FLOOR KEYMAP**
3/32" = 1'-0"

STRUCTURAL NOTES:

1. DIAGONAL DOWN HATCH PATTERN INDICATES AREA OF STRUCTURAL REPAIRS REQUIRED. SEE REPAIR SCHEDULE FOR FURTHER INFORMATION.
2. ALL EXPOSED STEEL SHALL BE GALVANIZED.
3. ALL EXISTING DIMENSIONS AND FRAMING SHALL BE FIELD VERIFIED.

STRUCTURAL REPAIR SCHEDULE

MARK	REPAIR	DETAIL
S1	CLEAN AND PAINT STEEL COLUMN AND REINFORCE PER DETAIL REFERENCED.	1/S0.0
S2	CLEAN AND PAINT STEEL BEAM AND REINFORCE PER REFERENCED DETAIL.	2/S0.0
S3	REPLACE EXISTING SHELF ANGLE IN KIND WITH GALVANIZED ANGLE. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	3/S0.0
S4	REPLACE EXISTING ANGLE IN KIND WITH GALVANIZED LINTEL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	4/S0.0
S5	CLEAN AND PAINT EXISTING STEEL LINTEL OR SHELF ANGLE PER DETAIL REFERENCED.	5/S0.0
S6	REPLACE EXISTING ANGLE PER DETAIL WITH GALVANIZED LINTEL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	6/S0.0
S7	CLEAN EXISTING SHELF ANGLE PER DETAIL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	7/S0.0
S8	REPLACE EXISTING ANGLE PER DETAIL WITH GALVANIZED LINTEL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	8/S0.0

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ISSUE	DATE	REVISIONS
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PROJECT COORDINATOR: FREDDA LIPPES

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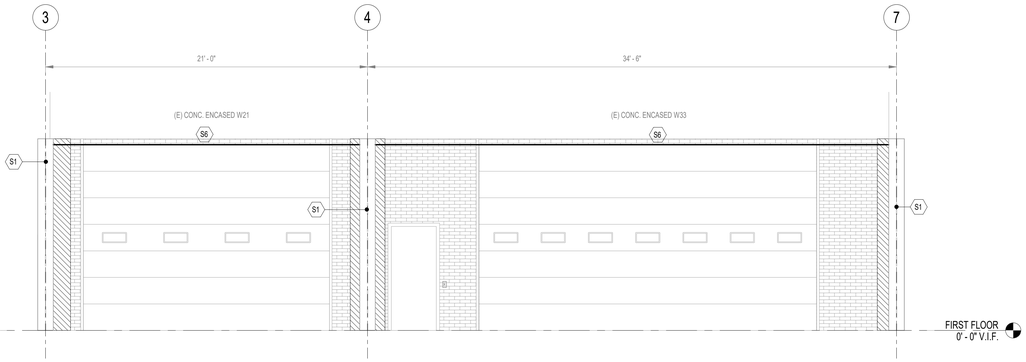
PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE: STRUCTURAL PLANS AND ELEVATIONS

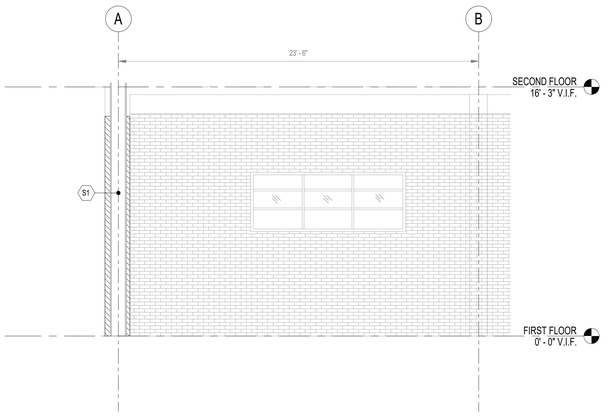
PROJECT NO. 20-20-4897-01
DRAWING NO. S3.1
DATE 12/07/2021
SCALE AS NOTED
DRAWN BY CJW
CHECKED BY NB
WZG PROJECT NO: (N/)

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



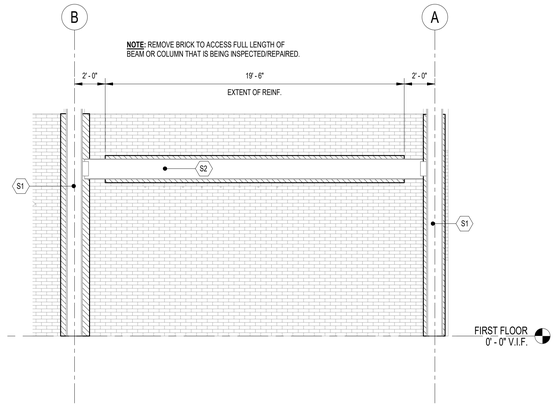
5 S3.2 INTERIOR GARAGE ELEVATION

1/4" = 1'-0"



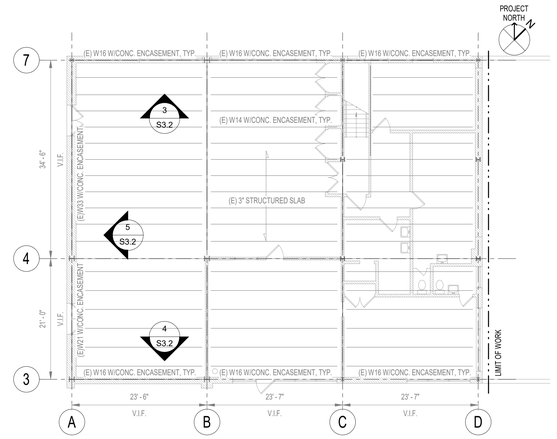
3 S3.2 INTERIOR GARAGE ELEVATION

1/4" = 1'-0"



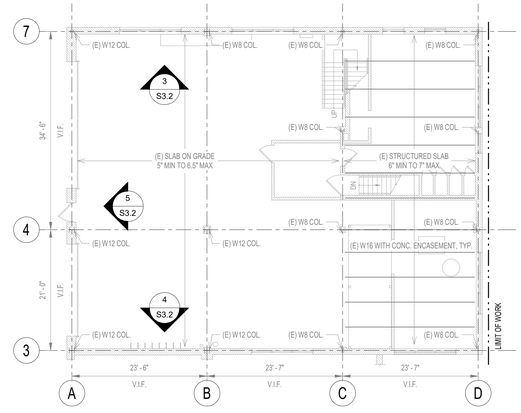
4 S3.2 INTERIOR GARAGE ELEVATION

1/4" = 1'-0"



2 S3.2 2ND FLOOR KEYMAP

3/32" = 1'-0"



1 S3.2 1ST FLOOR KEYMAP

3/32" = 1'-0"

STRUCTURAL NOTES:

1. DIAGONAL DOWN HATCH PATTERN INDICATES AREA OF STRUCTURAL REPAIRS REQUIRED. SEE REPAIR SCHEDULE FOR FURTHER INFORMATION.
2. ALL EXPOSED STEEL SHALL BE GALVANIZED.
3. ALL EXISTING DIMENSIONS AND FRAMING SHALL BE FIELD VERIFIED.

STRUCTURAL REPAIR SCHEDULE

MARK	REPAIR	DETAIL
S1	CLEAN AND PAINT STEEL COLUMN AND REINFORCE PER DETAIL REFERENCED.	1/S0.0
S2	CLEAN AND PAINT STEEL BEAM AND REINFORCE PER REFERENCED DETAIL.	2/S0.0
S3	REPLACE EXISTING SHELF ANGLE IN KIND WITH GALVANIZED ANGLE. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	3/S0.0
S4	REPLACE EXISTING ANGLE IN KIND WITH GALVANIZED LINTEL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	4/S0.0
S5	CLEAN AND PAINT EXISTING STEEL LINTEL OR SHELF ANGLE PER DETAIL REFERENCED.	5/S0.0
S6	REPLACE EXISTING ANGLE PER DETAIL WITH GALVANIZED LINTEL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	6/S0.0
S7	CLEAN EXISTING SHELF ANGLE PER DETAIL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	7/S0.0
S8	REPLACE EXISTING ANGLE PER DETAIL WITH GALVANIZED LINTEL. REMOVE EXISTING BRICK AS REQ'D AND REPLACE.	8/S0.0

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PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE: STRUCTURAL PLANS AND ELEVATIONS

PROJECT NO.: 20-20-4897-01

DRAWING NO.: S3.2

DATE: 12/07/2021

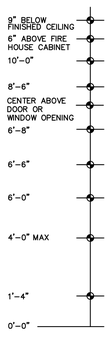
SCALE: AS NOTED

DRAWN BY: CJW

CHECKED BY: NB

WZG PROJECT NO. 297

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



BASIC ELECTRICAL REQUIREMENTS:

1. GENERAL: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST APPROVED PHILADELPHIA CODE AND NATIONAL ELECTRICAL CODE (NEC) AND NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) STANDARDS UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED. ALL ELECTRICAL WORK SHALL COMPLY WITH ADA RECOMMENDATIONS. ALL ELECTRICAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER BY A LICENSED ELECTRICIAN, OR A CERTIFIED APPRENTICE WORKING UNDER THE DIRECT SUPERVISION OF A LICENSED ELECTRICIAN, USING THE BEST METHODS KNOWN TO THE TRADE AND SHALL PRESENT A NEAT AND PROFESSIONAL APPEARANCE WHEN COMPLETED. THE OWNER RESERVES THE RIGHT TO CHANGE, WITHOUT ADDITIONAL COST, THE LOCATION OF ANY APPARATUS OR OUTLET, PROVIDED SUCH CHANGE DOES NOT ADD MORE THAN 10 FT TO THE FEEDER AND IS ORDERED BEFORE INSTALLATION OF THE AFFECTED PORTION OF THE WORK IS COMMENCED. CONTRACTOR SHALL BRING ALL CONFLICTS ON THE DRAWINGS TO THE OWNERS ATTENTION FOR HIS RESOLUTION PRIOR TO PERFORMING THAT WORK.

2. THE CONTRACTOR SHALL SURVEY THE PROJECT SITE PRIOR TO THE BID TO ASSESS ACTUAL FIELD CONDITIONS. FAILURE TO PERFORM THIS INSPECTION BINDS THE CONTRACTOR TO PERFORM THE WORK WITH OUT EXTRA CHARGES DESPITE THE IGNORANCE OF REASONABLY ANTICIPATED CONDITIONS.

3. ROUGH–INS: THE CONTRACTOR SHALL VERIFY AND COORDINATE THE ROUGH–IN REQUIREMENTS OF EACH ITEM OF EQUIPMENT WITH THE CONTRACTOR SUPPLYING THE EQUIPMENT.

4. INSTALLATION: THE ELECTRICAL DRAWINGS INDICATE THE EXTENT AND GENERAL LOCATION AND ARRANGEMENT OF EQUIPMENT AND MATERIALS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL DETAILS OF THE WORK AND VERIFY ALL DIMENSIONS IN THE FIELD SO THAT EQUIPMENT AND MATERIALS WILL BE PROPERLY LOCATED AND READILY ACCESSIBLE. THE CONTRACTOR SHALL SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS. COMPLY WITH THE FOLLOWING REQUIREMENTS:
   - A. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.
   - B. COORDINATE ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS AND TRADES.
   - C. ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR INSTALLATION OF ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS.
   - D. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATION OF ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS FOR EFFICIENT FLOW OF THE WORK.
   - E. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, INSTALL ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS TO PROVIDE MAXIMUM HEADROOM POSSIBLE.
   - F. INSTALL ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS TO CONFORM WITH APPROVED SUBMITTAL DATA TO THE GREATEST EXTENT POSSIBLE. CONFORM TO THE ARRANGEMENTS INDICATED ON THE ELECTRICAL DRAWINGS, RECOGNIZING THAT PORTIONS OF THE WORK ARE SHOWN ONLY IN DIAGRAMATIC FORM. WHERE COORDINATION REQUIREMENTS CONFLICT WITH INDIVIDUAL SYSTEM REQUIREMENTS, REFER CONFLICT TO THE ARCHITECT/ENGINEER OR OWNER'S REPRESENTATIVE FOR RESOLUTION.
   - G. IN GENERAL, INSTALL ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO BUILDING LINES AND/OR FEATURES AND/OR OTHER BUILDING SYSTEMS.
   - H. INSTALL ELECTRICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT AND COMPONENT PARTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.
   - I. INSTALL ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS GIVING RIGHT–OF–WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIC SLOPE(INCL. SPRINKLER SYSTEMS).

5. CUTTING AND PATCHING: ALL ELECTRICAL WORK SHALL BE CAREFULLY LAID OUT IN ADVANCE, AND WHERE CUTTING, CHANNELING, CHASING, OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS, OR OTHER SURFACES IS NECESSARY FOR THE PROPER INSTALLATION, SUPPORT, OR ANCHORAGE OF CONDUIT OR OTHER ELECTRICAL WORK, THIS WORK SHALL BE CAREFULLY DONE. ANY RESULTING DAMAGE TO THE BUILDING OR OTHER SYSTEMS, EQUIPMENT, OR MATERIALS SHALL BE REPAIRED BY SKILLED MECHANICS OF THE TRADES INVOLVED, AT NO ADDITIONAL COST TO THE OWNER.

6. PRODUCTS: SYSTEMS, EQUIPMENT, AND MATERIALS DESCRIBED ON THE ELECTRICAL DRAWINGS ESTABLISH THE MINIMUM STANDARDS FOR QUALITY AND STYLE AND SHALL BE THE BASIS OF THE BID. ALL SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE NEW AND SHALL BEAR THE UL LABEL OR BE UL LISTED, WHERE APPLICABLE, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND NEMA STANDARDS.

7. SUBSTITUTIONS: WHERE SYSTEMS, EQUIPMENT, OR MATERIALS ARE SPECIFIED BY MANUFACTURER OR BRAND NAME AND CATALOG NUMBER, SUCH SPECIFICATION SHALL ESTABLISH THE MINIMUM STANDARDS FOR QUALITY AND STYLE AND SHALL BE THE BASIS OF THE BID. SYSTEMS, EQUIPMENT, AND MATERIALS SO SPECIFIED SHALL BE FURNISHED UNDER THE CONTRACT UNLESS CHANGED BY WRITTEN AGREEMENT. SHOULD THE CONTRACTOR PROPOSE TO FURNISH PRODUCTS OTHER THAN THOSE SPECIFIED, AS PERMITTED BY "OR APPROVED EQUAL" CLAUSES, HE SHALL SUBMIT A WRITTEN REQUEST FOR SAID SUBSTITUTIONS THROUGH APPROPRIATE CHANNELS TO THE ARCHITECT/ENGINEER FOR HIS REVIEW. SUCH REQUEST SHALL BE ACCOMPANIED WITH COMPLETE DESCRIPTIVE LITERATURE INCLUDING, BUT NOT LIMITED TO, CATALOG CUT SHEETS, BROCHURES, CIRCULARS, SPECIFICATIONS, PERFORMANCE DATA, INSTALLATION INSTRUCTIONS, SHOP DRAWINGS, AND OTHER PRINTED INFORMATION IN SUFFICIENT DETAIL AND SCOPE TO VERIFY COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT. DESCRIPTIVE LITERATURE ON PROPOSED SUBSTITUTIONS SHALL BE CLEAR, CONCISE, AND LOGICALLY ARRANGED. ALL DATA WHICH IS, AND IS NOT, APPLICABLE SHALL BE CLEARLY IDENTIFIED AS SUCH. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT SAMPLES OF BOTH SPECIFIED AND PROPOSED ITEMS FOR INSPECTION. DESCRIPTIVE LITERATURE ON PROPOSED SUBSTITUTIONS SHALL BE RETURNED WITHOUT REVIEW IF NOT PROPERLY PREPARED. ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL BE UP TO THE DESCRETION OF THE ARCHITECT/ENGINEER AND/OR THE OWNER.

8. SUBMITTALS: THE CONTRACTOR SHALL FOLLOW THE GENERAL PROVISIONS OF THE CONTRACT AND ESTABLISHED PROCEDURES. SUBMITTALS SHALL CONSIST OF COMPLETE DESCRIPTIVE LITERATURE INCLUDING, BUT NOT LIMITED TO, CATALOG CUT SHEETS, BROCHURES, CIRCULARS, SPECIFICATIONS, PERFORMANCE DATA, INSTALLATION INSTRUCTIONS, SHOP DRAWINGS, AND OTHER PRINTED INFORMATION IN SUFFICIENT DETAIL AND SCOPE TO VERIFY COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT. DESCRIPTIVE LITERATURE SHALL BE CLEAR, CONCISE, AND LOGICALLY ARRANGED. ALL DATA WHICH IS, AND IS NOT, APPLICABLE SHALL BE CLEARLY IDENTIFIED AS SUCH. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT SAMPLES OF SPECIFIED ITEMS FOR INSPECTION. DESCRIPTIVE LITERATURE SHALL BE RETURNED WITHOUT REVIEW IF NOT PROPERLY PREPARED. THE FOLLOWING SYSTEMS, EQUIPMENT, AND MATERIALS, AS A MINIMUM, REQUIRE SUBMITTALS:
   - A. ANY PROPOSED SUBSTITUTIONS.
   - B. WIRING DEVICES.
   - C. PANELBOARDS.
   - D. DISCONNECT SWITCHES.
   - E. CIRCUIT BREAKERS.
   - F. LIGHTING FIXTURES INCLUDING BALLASTS.

9. RECORD DRAWINGS: THE CONTRACTOR SHALL MAINTAIN AT THE SITE A CLEAN, UNDAMAGED SET OF BLUE– OR BLACK–LINE WHITE PRINTS OF CONTRACT DRAWINGS. THIS RECORD SET OF CONTRACT DRAWINGS SHALL BE MARKED TO SHOW THE ACTUAL INSTALLATION AND WHERE THE ACTUAL INSTALLATION VARIES SUBSTANTIALLY FROM THE ELECTRICAL WORK AS ORIGINALLY SHOWN. MARK WHICHEVER DRAWINGS ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD DRAWINGS WITH A RED ERASABLE PENCIL; USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS IN SEPARATE CATEGORIES OF THE ELECTRICAL WORK. NOTE CONTRACT MODIFICATIONS AND APPROVED SUBSTITUTIONS WHERE APPLICABLE.

10 PROTECTION OF INSTALLED SYSTEMS, EQUIPMENT, AND MATERIALS: PROTECT INSTALLED SYSTEMS, EQUIPMENT, AND MATERIALS FROM DAMAGE UNTIL FINAL ACCEPTANCE BY THE OWNER. REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, DAMAGED SYSTEMS, EQUIPMENT, AND MATERIALS TO THE SATISFACTION OF THE ARCHITECT/ ENGINEER AND/OR OWNER.

11. CLEANING: UPON COMPLETION OF INSTALLATION, INSPECT INTERIOR AND EXTERIOR OF ALL ELECTRICAL EQUIPMENT. REMOVE PAINT SPLATTERS AND OTHER SPOTS, DIRT, AND DEBRIS. TOUCH–UP SCRATCHES AND MARS OF FINISH TO MATCH ORIGINAL FINISH.

12. CERTIFICATIONS: THE FOLLOWING SHALL BE OBTAINED AND SUBMITTED TO THE OWNER PRIOR TO FINAL PAYMENT:
   - A. ELECTRICAL SYSTEMS: A CERTIFICATE OF FINAL INSPECTION AND APPROVAL BY THE AUTHORITIES HAVING JURISDICTION

13. GUARANTEE: THE CONTRACTOR SHALL SUBMIT A WRITTEN GUARANTEE TO THE OWNER, PRIOR TO FINAL PAYMENT, THAT WARRANTS THE INSTALLATION SHALL REMAIN FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE BY THE OWNER. THE GUARANTEE SHALL STATE THAT THE OWNER IS NOT LIABLE FOR PARTS AND LABOR COSTS INCURRED BY THE CONTRACTOR IN THE REPAIR OF ACTUAL PRODUCT OR INSTALLATION DEFECTS. THE GUARANTEE SHALL ALSO STATE THAT THE ON–SITE RESPONSE TIME TO REQUESTS FOR ASSISTANCE WILL BE 24 HOURS FOR NON–EMERGENCY CONDITIONS AND 2 HOURS FOR EMERGENCY CONDITIONS.

STANDARD MOUNTING HEIGHTS (UNLESS OTHERWISE NOTED)

9" BELOW FINISHED CEILING	WALL–MOUNTED CLOCKS, PROGRAM BELLS(OR AS SHOWN ON ARCHITECTURAL DETAILS).
6" ABOVE FIRE HOUSE CABINET	BLUE SIGNAL LIGHT.
10'–0"	BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTED LIGHT HEADS(OR 1'–0" BELOW FINISHED CEILING OF TOP OF UNIT).
8'–6"	PEDANT–HUNG INDUSTRIAL AND STRIP LIGHTING FIXTURES.
CENTER ABOVE DOOR OR WINDOW OPENING	WARNING AND SIGNALING FIXTURES/SIGNS.
6'–8"	BOTTOM OF FIRE ALARM NOTIFICATION DEVICES. (OR WITHIN 6" OF FINISHED CEILING IF CEILING IS NOT HIGH ENOUGH).
6'–6"	TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL LIGHTING OR POWER PANELBOARDS WHOSE OPERABLE PARTS ARE EXCLUDED FORM 2010 ADA STANDARD SECTION 205.
6'–0"	TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETIC STARTERS, CONTACTORS EXCLUDED FROM ACCESSIBLE ADA COMPLIANT DEVICES/ OPERABLE PARTS COVERED BY 2010 ADA STANDARD SECTION 205, 309.
4'–0" MAX	TOP OF ACCESSIBLE PART OF LIGHT SWITCHES, MANUAL MOTORS STARTERS, THERMOSTATS, GFI RECEPTACLES IN TOILET ROOM OR FOR SEPARATE SINKS, FIRE ALARM PULL STATION.TOP OF OPERABLE PARTS(CIRCUIT BREAKERS,SWITCHES ETC.) OF ACCESSIBLE DEVICES COVERED BY 2010 STANDARD SECTION 205, 309.
1'–4"	BOTTOM OF RECEPTACLES, DESK TYPE TELEPHONE OUTLETS, LOW TELEVISION OUTLETS, DATA OUTLETS
0'–0"	FINISHED FLOOR(FF)

MOUNTING HEIGHT NOTES:

1. STANDARD MOUNTING HEIGHTS: (COORDINATE WITH ARCH DRAWINGS) ALL MOUNTING HEIGHTS SHALL BE AS INDICATED BY ARCHITECT. IF NOT INDICATED BY ARCHITECT THEN PROVIDE AS NOTED ABOVE.
2. MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS NOTED IN STANDARD MOUNTING HEIGHTS ABOVE. IN MASONRY CONTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.
3. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWING OR SPECIFICATIONS.
4. INDICATION (+) NEXT TO A DEVICE INDICATES THAT DEVICE IS MOUNTED ABOVE A COUNTER OR CASEWORK. COORDINATE WITH ARCHITECTURAL DETAILS AND CASEWORK CONTRACTOR.
5. ALL ACCESSIBLE ADA COMPLIANT DEVICES AND ITS OPERABLE PARTS SHALL BE MOUNTED PER 2010 ADA STANDARD SECTION 205,309.

ELECTRICAL MATERIALS:

1. RACEWAYS:
   - A. RIGID GALVANIZED STEEL (RGS) CONDUIT: ANSI C80.1.
   - B. ELECTRICAL METALLIC TUBING (EMT) AND FITTINGS: ANSI C80.3 WITH COMPRESSION TYPE FITTINGS.
   - C. LIQUIDTIGHT FLEXIBLE METAL CONDUIT: UL 360. FLEXIBLE STEEL CONDUIT WITH PVC JACKET.
   - D. NONMETALIC CONDUIT AND TUBING (ENT): NEMA TC 13
2. BOXES:
   - A. SHEET METAL: NEMA OS 1.
   - B. CAST METAL: NEMA FB 1, TYPE FD, CAST FERALLOY BOX WITH GASKETED COVER.
   - C. HINGED COVER ENCLOSURES: NEMA 250, GALVANIZED STEEL ENCLOSURE WITH CONTINUOUS HINGE COVER, QUICK RELEASE TYPE LATCHES, REMOVABLE INTERIOR PANEL, AND MANUFACTURER'S STANDARD GRAY ENAMEL INSIDE AND OUT.
3. WIRES AND CABLES:
   - A. CONDUCTOR MATERIAL: ANNEALED COPPER OR ALUMINUM.
   - B. INSULATION: THHN/THWN CONFORMING TO WC 5.
   - C. CONDUCTORS #16 AWG AND SMALLER SHALL BE SOLID; CONDUCTORS #14 AWG AND LARGER SHALL BE STRANDED. MC CABLE IS PERMITTED FOR BRANCH CIRCUITRY, AND SHALL UTILIZE SOLID CONDUCTORS.
   - D. GROUND CONDUCTORS #10 AWG AND SMALLER SHALL HAVE GREEN THHN/THWN INSULATION.
4. WIRING DEVICES:
   - A. GENERAL: COMPLY WITH NEMA WD 1, "GENERAL PURPOSE WIRING DEVICES."
   - B. COLOR: WHITE, BLACK, GRAY, IVORY, OR BROWN TO BE AS SELECTED BY THE ARCHITECT/ ENGINEER AND/OR THE OWNER.
   - C. RECEPTACLES: COMPLY WITH UL 498, "ELECTRICAL ATTACHMENT PLUGS AND RECEPTACLES, "HEAVY DUTY SPECIFICATION GRADE EXCEPT AS OTHERWISE INDICATED. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES SHALL COMPLY WITH UL 943, "GROUND FAULT CIRCUIT INTERRUPTERS," WITH INTEGRAL NEMA 5–20R DUPLEX RECEPTACLE DESIGNED FOR INSTALLATION IN A 2–3/4" DEEP DEVICE BOX WITHOUT ADAPTER.
   - D. TOGGLE SWITCHES: 20A, 120–277V AC, QUIET TYPE, SPECIFICATION GRADE AND SHALL COMPLY WITH UL 20, "GENERAL USE SNAP SWITCHES." SINGLE–POLE, TWO–POLE, THREE–WAY, AND FOUR–WAY AS INDICATED AND/OR REQUIRED.
   - E. DEVICE PLATES: SINGLE AND COMBINATION TYPES WHICH MATE AND MATCH WITH CORRESPONDING WIRING DEVICES.
   - F. MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS AS MANUFACTURED BY HUBBEL INC., OR APPROVED EQUAL BY LEVITON.
5. GROUNDING:
   - A. GROUNDING AND BONDING PRODUCTS: OF TYPES INDICATED AND/OR OF SIZES AND RATINGS TO COMPLY WITH THE NEC. WHERE TYPES, SIZES, RATINGS, AND QUANTITIES ARE IN EXCESS OF NEC REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS AND THE GREATER SIZE, RATING, AND QUANTITY INDICATIONS SHALL GOVERN. SMOOTH MATCHING NYLON IN ALL AREAS.
   - B. CONDUCTOR MATERIAL: COPPER.
   - C. WIRE AND CABLE CONDUCTORS: CONFORM TO NEC TABLE 8, EXCEPT AS OTHERWISE INDICATED, FOR CONDUCTOR PROPERTIES, INCLUDING STRANDING.
   - D. CONNECTOR PRODUCTS: UL LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED.
6. PANELBOARDS:
   - A. CIRCUIT BREAKERS: PROVIDE TYPE, RATING, AND FEATURES INDICATED. BOLT–ON EXCEPT WHERE PLUG–IN FOR USE ON EXISTING PANELBOARDS(NOT BEING UPGRADED) TANDEM CIRCUIT BREAKERS SHALL NOT BE USED. MULTIPOLE CIRCUIT BREAKERS SHALL HAVE AN INTERNAL COMMON TRIP AND A SINGLE HANDLE.
   - B. ENCLOSURES: NEMA TYPE 1, UNLESS OTHERWISE INDICATED.
   - C. FRONT: SECURED TO BOX WITH CONCEALED TRIM CLAMPS EXCEPT AS INDICATED. FRONT FOR SURFACE MOUNTED PANELBOARDS SHALL BE SAME DIMENSIONS AS BOX.
   - D.. DIRECTORY FRAME: METAL WITH CLEAR PLASTIC COVER MOUNTED ON INSIDE OF PANELBOARD DOOR.
   - E. BUS WORK: HARD DRAWN COPPER OF 98% CONDUCTIVITY.
   - F. MAIN AND NEUTRAL LUGS: COMPRESSION TYPE.
   - G. EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH CIRCUIT EQUIPMENT GROUND CONDUCTORS. BONDED TO BOX.
   - H. PROVISIONS FOR FUTURE DEVICES: EQUIP WITH MOUNTING BRACKETS, BUS CONNECTION, AND NECESSARY APPURTENANCES, FOR THE CIRCUIT BREAKER AMPERE RATINGS INDICATED FOR FUTURE INSTALLATION OF DEVICES.
   - I. MAIN AND SUBFEED LUGS: PROVIDE WHERE INDICATED.
   - J. NAMEPLATE: CUSTOM ENGRAVED PLASTIC LAMINATE, WHITE LETTERS ON BLACK FIELD, FOR EACH PANELBOARD MOUNTED WITH EPOXY OR INDUSTRIAL CEMENT OR ADHESIVE.
   - K. MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS AS MANUFACTURED BY SQUARE–D, SIEMENS OR CUTLER HAMMER CO.
7. DISCONNECTS AND CIRCUIT BREAKERS:
   - A. FUSIBLE SWITCH, 800A AND SMALLER: NEMA KS 1, TYPE HD, CLIPS TO ACCOMODATE SPECIFIED FUSES, ENCLOSURE SUITABLE FOR THE ENVIRONMENT WHERE INSTALLED, HANDLE LOCKABLE WITH TWO (2) PAD LOCKS, AND INTERLOCKED WITH COVER IN "CLOSED" POSITION. ENCLOSURES SHALL COMPLY WITH NEMA KS 1; TYPE 1 INDOOR DRY LOCATIONS;
   - B. MOLDED CASE CIRCUIT BREAKER: NEMA AB 1, HANDLE LOCKABLE WITH TWO (2) PADLOCKS. FRAME SIZE, TRIP RATING, NUMBER OF POLES, AND AUXILLARY DEVICES AS INDICATED. ENCLOSURES SHALL COMPLY WITH NEMA AB 1; TYPE 1. INDOOR DRY LOCATIONS. CIRCUIT BREAKERS SHALL HAVE A MINIMUM INTERRUPTING CAPACITY AS FOLLOWS:
   - C. MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS AS SUITABLE FOR INSTALLATION IN EXISTING PANELS. DISCONNECTS SHALL BE BY SQUARE–D.

GENERAL ELECTRICAL NOTES:

1. WIRING METHODS: WIRING SHALL CONSIST OF CABLES AND WIRES INSTALLED IN RGS CONDUIT , EMT, LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND MC CABLES. RACEWAYS SHALL BE CONCEALED WITHIN FINISHED WALLS AND CEILINGS UNLESS OTHERWISE INDICATED. OTHER THAN ROOF PENETRATIONS REQUIRED TO FEED ROOF MOUNTED EQUIPMENT, RACEWAYS WILL NOT BE ROUTED EXPOSED OUTSIDE OF THE BUILDING.

2. RACEWAYS: RACEWAYS SHALL BE PROVIDED WHERE INDICATED AND REQUIRED AND SHALL BE INSTALLED AS SPECIFIED BELOW, UNLESS OTHERWISE INDICATED. MINIMUM RACEWAY SIZE SHALL BE 3/4 IN. RGS CONDUIT SHALL BE USED FOR ALL OUTDOOR INSTALLATIONS. EMT SHALL BE USED FOR ALL INDOOR INSTALLATIONS. LIQUIDTIGHT FLEXIBLE METAL CONDUIT, 6 FT MAXIMUM LENGTH, SHALL BE USED FOR ALL CONDUIT TERMINATIONS AT EQUIPMENT SUBJECT TO VIBRATION. BUSHINGS, MANUFACTURED FITTINGS, OR BOXES PROVIDING EQUIVALENT MEANS OF PROTECTION SHALL BE INSTALLED ON THE ENDS OF ALL CONDUITS AND SHALL BE OF THE INSULATING TYPE WHERE REQUIRED BY THE N.E.C. ONLY LISTED ADAPTERS SHALL BE USED TO CONNECT EMT TO RGS CONDUIT AND CAST METAL BOXES AND CONDUIT BODIES. PENETRATIONS OF SLABS AND FIRE RATED WALLS SHALL BE FIRESTOPPED.

   KEEP RACEWAYS AT LEAST 6 IN. AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT WATER PIPING. INSTALL HORIZONTAL RACEWAY RUNS HIGHER THAN WATER AND STEAM PIPING. RACEWAYS CROSSING STRUCTURAL EXPANSION JOINTS SHALL BE PROVIDED WITH SUITABLE EXPANSION FITTINGS OR OTHER SUITABLE MEANS TO COMPENSATE FOR THE BUILDING EXPANSION AND CONTRACTION. RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS AND FEATURES, MECHANICAL DUCT AND PIPING SYSTEMS, OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. CHANGES IN DIRECTION OF RUNS SHALL BE ACCOMPLISHED WITH SYMMETRICAL BENDS OR CAST METAL FITTINGS. FIELD–MADE ELBOWS AND OFFSETS SHALL BE MADE WITH AN APPROVED HICKEY OR CONDUIT BENDING MACHINE. CRUSHED OR DEFORMED RACEWAY SHALL NOT BE INSTALLED. CARE SHALL BE TAKEN TO PREVENT THE LODGMENT OF DIRT, AND CONSTRUCTION MATERIALS AND DEBRIS IN RACEWAYS DURING THE COURSE OF CONSTRUCTION. CLOGGED RACEWAYS SHALL BE ENTIRELY FREED OF OBSTRUCTIONS OR SHALL BE REPLACED.

   RGS CONDUIT AND EMT SHALL BE SECURELY AND RIGIDLY FASTENED IN PLACE AT INTERVALS OF NOT MORE THAN 10 FT AND WITHIN 3 FT OF FITTINGS AND BOXES WITH APPROVED PIPE STRAPS, WALL BRACKETS, CONDUIT CLAMPS, CONDUIT HANGERS, THREADED C–CLAMPS, OR CEILING TRAPEZE. C–CLAMPS OR BEAM CLAMPS SHALL HAVE STRAP OR ROD TYPE RETAINERS. LOADS AND SUPPORTS SHALL BE COORDINATED WITH SUPPORTING STRUCTURES TO PREVENT DEFORMATION OR DAMAGE TO STRUCTURES, BUT NO LOAD SHALL BE APPLIED TO JOIST BRIDGING. FASTENINGS SHALL BE BY WOOD SCREWS OR SCREW TYPE NAILS TO WOOD; BY TOGGLE BOLTS ON HOLLOW CMU; BY EXPANSION BOLTS ON CONCRETE OR BRICK; AND BY MACHINE SCREWS, WELDED THREADED STUDS, HEAT TREATED OR SPRING STEEL TENSION CLAMPS ON STEEL WORK. NAIL TYPE NYLON ANCHORS OR THREADED STUDS DRIVEN IN BY A POWDER CHARGE AND PROVIDED WITH LOCK WASHERS AND NUTS MAY BE USED IN LIEU OF EXPANSION BOLTS OR MACHINE SCREWS. RACEWAYS OR PIPE STRAPS SHALL NOT BE WELDED TO STEEL STRUCTURES. IN PARTITIONS OF LIGHT STEEL CONSTRUCTION, SHEET METAL SCREWS MAY BE USED. CONDUIT SHALL NOT BE SUPPORTED USING WIRE OR NYLON TIES. RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM AND BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE. UPPER RACEWAYS SHALL NOT BE THE SUPPORT OF LOWER RACEWAYS. SUPPORTING MEANS WILL NOT BE SHARED BETWEEN ELECTRICAL RACEWAYS AND MECHANICAL DUCTS OR PIPING. MOUNTING HARDWARE SHALL NOT PRESENT SHARP EDGES WHERE PERSONNEL CONTACT IS POSSIBLE. IN MECHANICAL SPACES, "MINERALAC" SUPPORTS SHALL NOT BE USED BELOW 10' A.F.F.

3. BOXES: BOXES SHALL BE PROVIDED IN RACEWAY SYSTEMS WHEREVER REQUIRED FOR PULLING OF WIRES, MAKING CONNECTIONS, AND MOUNTING OF DEVICES OR LIGHTING FIXTURES. IN GENERAL, BOXES SHALL BE CONSTRUCTED OF HOT–DIPPED GALVANIZED FINISHED SHEET STEEL. BOXES FOR METALLIC RACEWAYS, 4 IN. BY 4 IN. NOMINAL SIZE AND SMALLER, SHALL BE OF THE CAST METAL HUB TYPE AND GASKETED WHEN LOCATED OUTSIDE OF THE BUILDING. BOXES SHALL BE LISTED AS SUITABLE FOR THE ENVIRONMENTAL CONDITIONS OF THE LOCATION THEY ARE INSTALLED. BOXES FOR MOUNTING OF LIGHTING FIXTURES SHALL BE NOT LESS THAN 4 IN. SQUARE EXCEPT SMALLER BOXES SHALL BE INSTALLED WHERE REQUIRED BY FIXTURE CONFIGURATION. UNLESS OTHERWISE INDICATED, DEVICE BOXES FOR RECEPTACLES SHALL BE MOUNTED WITH THE CENTER OF THE DEVICE BOX APPROXIMATELY 18 IN. AFF.

   INDICATED, DEVICE BOXES FOR TOGGLE SWITCHES SHALL BE MOUNTED WITH THE TOP OF THE ACCESSIBLE PART APPROXIMATELY 48 IN. AFF. BOXES AND BOX SUPPORTS SHALL BE FASTENED TO WOOD WITH WOOD SCREWS OR SCREW TYPE NAILS OF EQUAL HOLDING STRENGTH, WITH BOLTS AND METAL EXPANSION SHIELDS ON CONCRETE AND BRICK, WITH TOGGLE BOLTS ON HOLLOW CMU, AND WITH MACHINE SCREWS OR WELDED STUDS ON STEEL WORK. THREADED STUDS DRIVEN IN BY POWDER CHARGE AND PROVIDED WITH LOCKWASHERS AND NUTS, OR NAIL TYPE NYLON ANCHORS MAY BE USED IN LIEU OF EXPANSION SHIELDS OR MACHINE SCREWS. HANGERS SHALL NOT BE FASTENED OR SUPPORTED FROM JOIST BRIDGING.

4. WIRES AND CABLES: EXAMINE RACEWAYS AND BUILDING FINISHES TO RECEIVE WIRES AND CABLES FOR COMPLIANCE WITH INSTALLATION TOLERANCES AND OTHER CONDITIONS. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. PULL WIRES AND CABLES INTO RACEWAY SIMULTANEOUSLY WHERE MORE THAN ONE IS BEING INSTALLED IN THE SAME RACEWAY. USE PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTORS OR INSULATION. USE PULLING MEANS, INCLUDING FISH TAPE, CABLE, ROPE, AND BASKET–WEAVE WIRE/CABLE GRIPS THAT WILL NOT DAMAGE WIRES/CABLES OR RACEWAY. INSTALL EXPOSED CABLE, PARALLEL AND PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS AND FEATURES, MECHANICAL DUCT AND PIPING SYSTEMS, OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. HORIZONTAL RUNS OF MC CABLE SHALL BE SUPPORTED ON 3 FT MAXIMUM CENTERS. VERTICAL RUNS OF MC CABLES SHALL BE SUPPORTED ON 6 FT MAXIMUM CENTERS. EXPOSED PLENUM CABLE SHALL BE SUPPORTED ON 3 FT MAXIMUM CENTERS. THE NUMBER OF SPLICES SHALL BE KEPT TO AN ABSOLUTE MINIMUM. WIRING AT EACH OUTLET SHALL BE INSTALLED WITH AT LEAST 8 IN. SLACK.

5. WIRING DEVICES: INSTALL WIRING DEVICES WHERE INDICATED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTION, APPLICABLE REQUIREMENTS OF THE NEC, AND RECOGNIZED INDUSTRY PRACTICES. INSTALL WIRING DEVICES IN DEVICE BOXES WHICH ARE CLEAN AND FREE FROM DIRT AND CONSTRUCTION MATERIALS AND DEBRIS. INSTALL WIRING DEVICES AFTER WIRING WORK IS COMPLETE. INSTALL DEVICE PLATES AFTER PAINTING WORK IS COMPLETE. TIGHTEN CONNECTORS AND TERMINALS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE–TIGHTENING VALUES. PRIOR TO ENERGIZING CIRCUITS, TEST WIRING FOR ELECTRICAL CONTINUITY AND SHORTS. ENSURE PROPER POLARITY OF CONNECTIONS IS MAINTAINED. SUBSEQUENT TO ENERGIZING, TEST WIRING DEVICES AND DEMONSTRATE COMPLIANCE WITH REQUIREMENTS.

6. GROUNDING: ELECTRICAL SYSTEMS AND EQUIPMENT, METALLIC RACEWAYS AND BOXES, CABLE SHIELDS, METALLIC CABLE SHEATHS AND ARMOR, AND OTHER NON–CURRENT CARRYING METALLIC PARTS OF EQUIPMENT SHALL BE GROUNDED IN CONFORMANCE WITH THE NEC. EQUIPMENT GROUND CONDUCTORS SHALL COMPLY WITH NEC ARTICLE 250 FOR SIZES AND QUANTITIES, EXCEPT WHERE LARGER SIZES AND/OR MORE CONDUCTORS ARE INDICATED. PROVIDE SEPARATE INSULATED GROUND CONDUCTOR IN ALL RACEWAYS, REGARDLESS OF RACEWAY TYPE. SEPARATELY DERIVED SYSTEMS AS DEFINED BY THE NEC SHALL BE GROUNDED IN CONFORMANCE WITH NEC ARTICLE 250 PARA. 26. TERMINATE EQUIPMENT GROUND WIRES FOR FEEDERS AND BRANCH CIRCUITS WITH PRESSURE TYPE GROUND LUGS. WHERE METALLIC CONDUITS TERMINATE AT METALLIC HOUSINGS WITHOUT MECHANICAL AND ELECTRICAL CONNECTION TO HOUSING, TERMINATE EACH CONDUIT WITH A GROUNDING BUSHING. CONNECT GROUNDING BUSHINGS WITH A GROUND WIRE TO THE GROUND BUS IN THE HOUSING. BOND ELECTRICALLY NONCONTINUOUS CONDUITS AT BOTH ENTRANCES AND EXITS WITH GROUNDING BUSHINGS AND GROUND WIRES. TIGHTEN GROUNDING AND BONDING CONNECTORS AND TERMINALS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE–TIGHTENING VALUES.

7. PANELBOARDS: INSTALL PANELBOARDS AND ACCESSORY ITEMS IN ACCORDANCE WITH NEMA PB 1.1, "GENERAL INSTRUCTIONS FOR PROPER INSTALLATION, OPERATION, AND MAINTENANCE OF PANELBOARDS RATED 600 VOLTS OR LESS," AND MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. MOUNT PANELBOARDS PLUMB AND RIGID WITHOUT DISTORTION OF BOX AND WITH THE TOP OF THE TRIM AT 78 IN. AFF UNLESS OTHERWISE INDICATED. PROVIDE NEATLY TYPED AND ACCURATE CIRCUIT DIRECTORIES IN EACH PANELBOARD, REFLECTIVE OF FINAL CIRCUIT CONFIGURATION. PROVIDE FILLER PLATES IN ALL UNUSED SPACES. TRAIN WIRES IN PANELBOARDS GUTTERS NEATLY IN GROUPS, BUNDLE, AND WRAP WITH WIRE TIES. GROUND PANELBOARD IN CONFORMANCE WITH THE NEC. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, INCLUDING GROUNDING CONNECTIONS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE–TIGHTENING VALUES. PERFORM INSULATION RESISTANCE TESTS OF PANELBOARD BUSES, COMPONENTS, AND FEEDER AND BRANCH CIRCUIT WIRING; INSULATION RESISTANCE LESS THAN 100 MEGOHM IS UNACCEPTABLE.

8. DISCONNECTS AND CIRCUIT BREAKERS: PROVIDE DISCONNECTS AND CIRCUIT BREAKERS WHERE INDICATED ON THE ELECTRICAL DRAWINGS AND/OR WHERE REQUIRED BY THE NEC, WHETHER INDICATED ON THE ELECTRICAL DRAWINGS OR NOT. INSTALL DISCONNECTS AND CIRCUIT BREAKERS PLUMB AND LEVEL AND IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. UPON COMPLETION OF INSTALLATION OF DISCONNECTS AND CIRCUIT BREAKERS, ENERGIZE CIRCUITS AND DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS. EXCEPT AS OTHERWISE INDICATED, DO NOT DEMONSTRATE DISCONNECTS AND CIRCUIT BREAKERS BY OPERATING THEM UNDER LOAD; HOWEVER, DEMONSTRATE DISCONNECT AND CIRCUIT BREAKER OPERATION THROUGH SIX OPENING/CLOSING CYCLES WITH CIRCUIT UNLOADED. OPEN DISCONNECT AND CIRCUIT BREAKER ENCLOSURES FOR INSPECTION OF INTERIOR, MECHANICAL AND ELECTRICAL CONNECTIONS, FUSE INSTALLATION IF APPLICABLE, AND FOR VERIFICATION OF TYPE AND RATING OF FUSES INSTALLED IF APPLICABLE. CORRECT DEFICIENCIES THEN RETEST TO DEMONSTRATE COMPLIANCE WITH REQUIREMENTS. REMOVE AND REPLACE DEFECTIVE UNITS WITH NEW UNITS AND RETEST.

9. LIGHTING FIXTURES: INSTALL FIXTURES WHERE, AND AT HEIGHTS, INDICATED IN ACCORDANCE WITH FIXTURE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS, REQUIREMENTS OF THE NEC, AND RECOGNIZED INDUSTRY PRACTICES. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, INCLUDING GROUND CONNECTIONS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE–TIGHTENING VALUES. RECESSED OR SEMIRECESSED FIXTURES MAY BE SUPPORTED BY CEILING SUPPORT SYSTEM. INSTALL CEILING SUPPORT SYSTEM RODS OR WIRES AT A MINIMUM OF FOUR (4) RODS OR WIRES PER FIXTURE LOCATED NOT MORE THAN 6 IN. FROM FIXTURE CORNERS. FIXTURES WHICH ARE SMALLER THAN CEILING GRID SHALL BE CENTERED IN ACOUSTICAL CEILING PANEL AND SUPPORTED BY AT LEAST TWO (2) 3/4 IN. METAL CHANNELS SPANNING AND SECURED TO CEILING SYSTEM GRID TEEs. FIXTURES WHICH LAY–IN CEILING GRID SYSTEM SHALL BE SECURED IN PLACE BY INSTALLATION OF CLIPS WHICH SECURELY FASTEN FIXTURE TO CEILING GRID TEEs. SUPPORT SURFACE MOUNT FIXTURES GREATER THAN 2 FT IN LENGTH AT A POINT IN ADDITION TO THE OUTLET BOX FIXTURE STUD. UPON COMPLETION OF INSTALLATION AND JUST PRIOR TO DEMONSTRATION, CLEAN AND RELAMP FIXTURES. LAMP FIXTURES WITH SPECIFIED LAMPS IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS. UPON COMPLETION OF INSTALLATION, DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS. WHERE POSSIBLE, CORRECT MALFUNCTIONING FIXTURES AT THE SITE, THEN RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REMOVE MALFUNCTIONING UNITS AND REPLACE WITH NEW UNITS AND PROCEED WITH RETESTING.

10. ELECTRICAL POWER & LIGHTING PLANS ARE DIAGRAMMATIC, FINAL LOCATIONS OF OUTLETS AND LIGHT FIXTURES ARE APPROXIMATE. EXACT ROUTING OF WIRING, LOCATIONS OF SWITCHES, OUTLETS & LIGHT FIXTURES SHALL BE GOVERNED BY STRUCTURAL, MECHANICAL AND PLUMBING CONDITIONS AND OBSTRUCTIONS. FINAL LOCATIONS OF ELECTRICAL FIXTURES SHALL BE DETERMINED DURING WALKTHROUGH W/ GENERAL CONTRACTOR AND OWNER PRIOR TO START OF ROUGH–IN.

11. THE MOUNTING HEIGHT OF ALL ELECTRICAL DEVICES, EQUIPMENT, FIXTURES SHALL COMPLY WITH THE STANDARD MOUNTING HEIGHT TABLE AND MOUNTING HEIGHT NOTES UNLESS OTHERWISE NOTED.

12. ALL ELECTRICAL AND LIGHTING DEVICE INSTALLATION SHALL MAINTAIN THE FIRE RATING SPECIFIED BY THE ARCHITECTURE PLANS

REVISIONS

ISSUE	DATE	REVISIONS
0	12/07/2021	BID/PERMIT SET

PROJECT COORDINATOR FREDDA LIPPES

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CAPITAL PROJECTS DIVISION
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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE
ELECTRICAL COVER SHEET

PROJECT NO. 20–20–4897–01
DATE 12/07/2021
SCALE AS NOTED
DRAWN BY MY
CHECKED BY LH
DRAWING NO. ECS–1

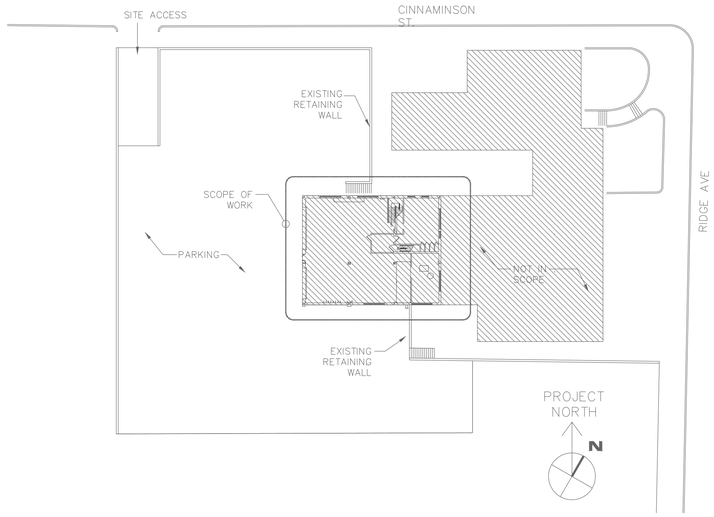
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

ABBREVIATIONS

@	AT
ABV	ABOVE
ADO	AUTOMATIC DOOR OPENER
AE	AERIAL ELECTRIC
AF	AMP FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALT	ALTERNATE
AM	AMMETER
AMP/A	AMPERE
ANNUN	ANNUNCIATOR
ANT	ANTENNA
AS	AMMETER SWITCH
AT	AMP TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BC	BARE COPPER
BKBD	BACKBOARD
BKR	BREAKER
BLDG	BUILDING
BSMT	BASEMENT
C/COND	CONDUIT
CAB	CABINET
CB, C/B	CIRCUIT BREAKER
CBL	CABLE
CCTV	CLOSED CIRCUIT TV
CUH	CABINET UNIT HEATER
CKT	CIRCUIT
CLG	CEILING
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTROLLER
CONTR	CONTRACTOR
CT	CURRENT TRANSFORMER
Cu	COPPER
DB	DIRECT BURIAL
DEMO	DEMOLITION
DC	DIRECT CURRENT
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DWG	DRAWING
E	EXISTING TO REMAIN
EA	EACH
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
EUH	ELECTRIC UNIT HEATER
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EO	ELECTRICALLY OPERATED
EBBH	ELECTRIC BASEBOARD HEATER
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPLOSION PROOF
FC	FLUID COOLER
F	FUSE(D)
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FCU	FAN COIL UNIT
FDR	FEEDER
FI	FILM ILLUMINATOR
FIXT	FIXTURE
FL	FLOOR
FLUOR	FLUORESCENT
FS	FLOW SWITCH
FSS	FUSED SAFETY SWITCH
FUT	FUTURE
GA	GAUGE
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFSC	GROUND FAULT SENSING RELAY COIL
G/GND	GROUND
GTB	GROUND TERMINAL BOX
HH	HANDHOLE
HOA	HAND-OFF-AUTO
HT	HEIGHT
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HID	HIGH INTENSITY DISCHARGE
HORZ	HORIZONTAL
HV	HIGH VOLTAGE
HP	HORSEPOWER
INCAND	INCANDESCENT
INST	INSTANT
ILL	ILLUMINATION
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
JUNC	JUNCTION
kVA	KILOVOLT AMPERE
kW	KILOWATT
kWH	KILOWATT HOUR
LIM	LINE ISOLATION MONITOR
LO	LUGS ONLY
LS	LIMIT SWITCH
LTS	LIGHTS
LTG	LIGHTING
LP	LIGHTING PANEL
LV	LOW VOLTAGE
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MFR	MANUFACTURER
MH	MANHOLE
MTS	MANUAL TRANSFER SWITCH
MCC	MOTOR CONTROL CENTER
MO	MECHANICALLY OPERATED
MIN	MINIMUM
MSP	MOTOR STARTER PANEL
MTD	MOUNTED
MTG HGT	MOUNTING HEIGHT
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NFSS	NON-FUSED SAFETY SWITCH
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCB	OIL CIRCUIT BREAKER
OCP	OVERCURRENT PROTECTION
PMP	PUMP
PB	PULL BOX
PC	PLUMBING CONTRACTOR
P	POLE
PF	POWER FACTOR
POD	POWER OPERATED DAMPER
PH	PHASE
PL	PILOT LIGHT
PNL	PANEL
PRI	PRIMARY
PS	PULL STATION
PSI	POUNDS PER SQUARE INCH
PT	POTENTIAL TRANSFORMER
PWR	POWER
PP	POWER PANEL
R	EXISTING TO RELOCATE
RECPT	RECEPTACLE(S)
RGIP	REMOTE GROUND INDICATOR PANEL
REQ	REQUIRED
SEC	SECONDARY
SIG	SIGNAL
SPEC	SPECIFICATION
SS	SAFTY SWITCH
ST	SHUNT TRIP
STD	STANDARD
STR	STARTER
SW	SWITCH
SWGR	SWITCHGEAR
SYS	SYSTEM
TEL	TELEPHONE
TEMP	TEMPERATURE
TP	TAMPERPROOF (CONSTRUCTION)
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UC	UNDERCOUNTER
U/F	UNFUSED
UNO	UNLESS NOTED OTHERWISE
UL	UNDERWRITERS' LABORATORY
UV	UNDER VOLTAGE
UH	UNIT HEATER
V	VOLT
VERT	VERTICAL
VM	VOLTMETER
VP	VAPOR PROOF
VS	VOLTMETER SWITCH
WSHP	WATER SOURCE HEAT PUMP
W	WATT
W	WIRE
WP	WEATHERPROOF
WT	WATER TIGHT
XFMR	TRANSFORMER
XFR	TRANSFER
XMTR	TRANSMITTER
XPDR	TRANSPONDER
XP	EXPLOSION PROOF
Ø	PHASE

LEGEND

- MULTI STATION HARD-WIRED W/ BATTERY BACK-UP OR BATTERY OPERATED SMOKE ALARM
- MULTI STATION HARD-WIRED W/ BATTERY BACK-UP OR BATTERY OPERATED SMOKE & CARBON MONOXIDE COMBINATION ALARM
- MULTI STATION HARD-WIRED W/ BATTERY BACK-UP OR BATTERY OPERATED SMOKE ALARM, W/BUILT IN ADA STROBE
- MULTI STATION HARD-WIRED W/ BATTERY BACK-UP OR BATTERY OPERATED SMOKE & CARBON MONOXIDE COMBINATION ALARM, W/ BUILT-IN ADA STROBE
- DISCONNECT SWITCH
- FUSED SAFETY DISCONNECT SWITCH
- JUNCTION BOX
- SWITCH
  - ATTRIBUTE:
  - D – DIMMER SWITCH
  - 3 – THREE WAY SWITCH
  - 4 – FOUR WAY SWITCH
  - T – TIMER SWITCH
  - GD – GARBAGE DISPOSAL AIR SWITCH
  - OS – OCCUPANCY SENSOR SWITCH
  - PT – PROGRAMMABLE TIMER SWITCH
- DUPLEX OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
- WEATHER PROOF EXTERIOR GFCI OUTLET
- SINGLE SPECIAL PURPOSE OUTLET WITH NEMA CONFIGURATION TO BE FIELD DETERMINED BASED ON INSTALLED EQUIPMENT
- CEILING MOUNTED MOTION SENSOR SWITCH. COORDINATE W/ MANUFACTURER FOR OPTIMAL SPACING
- (OS) CEILING MOUNTED OCCUPANCY SENSOR SWITCH. COORDINATE W/ MANUFACTURER FOR OPTIMAL SPACING
- CEILING FAN/LIGHT COMBO
- BATHROOM FAN
- BATHROOM FAN/LIGHT COMBO
- BREAKER
- BREAKER W/ SHUNT TRIP FUNCTION/ACCESSORY
- DISCONNECT
- DISCONNECT W/ SHUNT TRIP FUNCTION/ACCESSORY
- M FIRE ALARM ADDRESSABLE MONITOR MODULE
- R FIRE ALARM ADDRESSABLE RELAY MODULE
- F FIRE ALARM MANUAL PULL STATION, WIRE TO FACP
- FACP FIRE ALARM CONTROL PANEL BOX
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FAPM FIRE ALARM DISTRIBUTED POWER MODULE
- C 2-WAY COMMUNICATION CALL BOX
- BS 2-WAY COMMUNICATION SYSTEM BASE STATION
- CP CONTROL PANEL
- FWF STROBE/HORN, WIRE TO FACP
- FWF LF LOW FREQUENCY SOUNDER/STROBE, WIRE TO FACP
- F STROBE ONLY, WIRE TO FACP
- LF LOW FREQUENCY SOUNDER, WIRE TO FACP
- FS FS – FLOW SWITCH "ALARM"
- TS TS – TAMPER SWITCH "ALARM"
- SH SYSTEM HEAT DETECTOR, WIRE TO FACP
- SS SYSTEM SMOKE DETECTOR, WIRE TO FACP
- SD SYSTEM DUCT SMOKE DETECTOR, WIRE TO FACP
- H.P.I MINI-SPLIT HEAT PUMP INDOOR UNIT
- H.P.O MINI-SPLIT HEAT PUMP INDOOR UNIT



1 ECS-2 KEY PLAN
SCALE: NOT TO SCALE

REVISIONS

ISSUE	DATE	REVISIONS
0	12/07/2021	BID/PERMIT SET

PROJECT COORDINATOR: FREDDA LIPPES

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL YIQIANG LIN ENGINEER No. PE086283

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1400 JFK BLVD 7TH FLR CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE: DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE: ELECTRICAL COVER SHEET

PROJECT NO.	20-20-4897-01
DATE	12/07/2021
SCALE	AS NOTED
DRAWN BY	MY
CHECKED BY	LH

DRAWING NO.: ECS-2

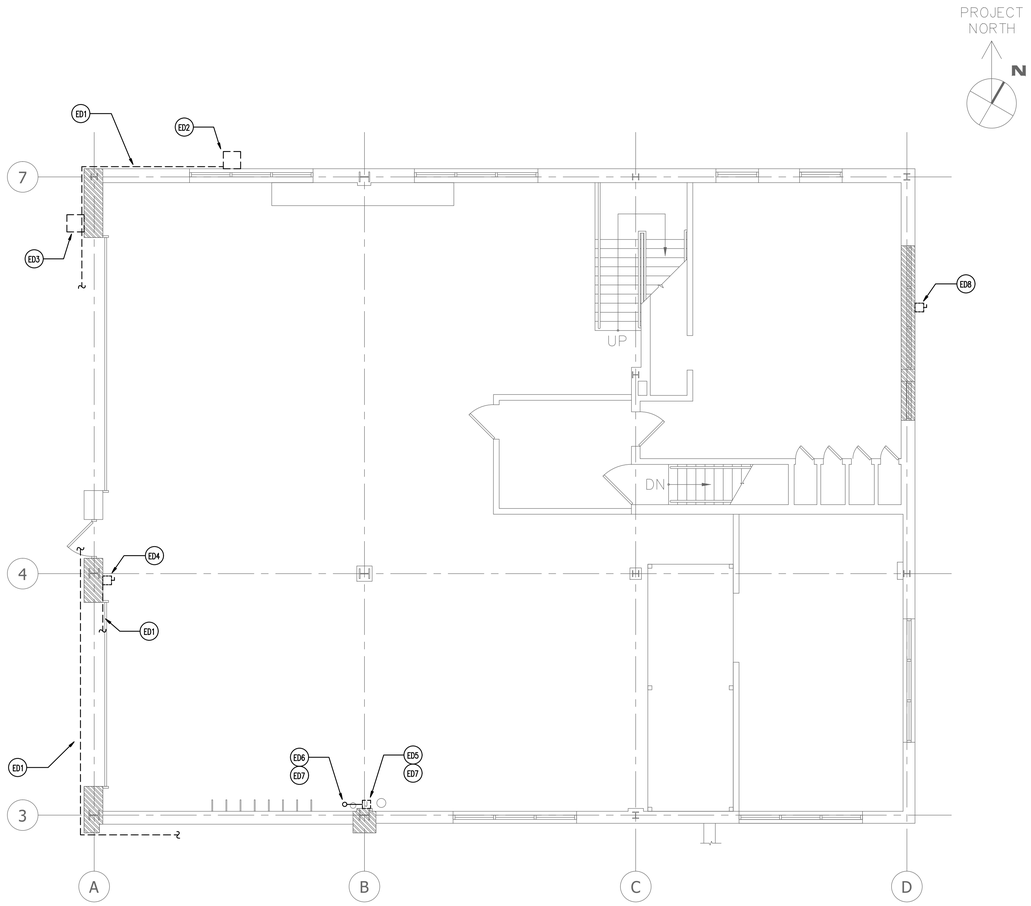
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

HATCH LEGEND:

STRUCTURAL REPAIR AREA. COORDINATE WITH THE ARCHITECT AND STRUCTURAL ENGINEER FOR EXACT LOCATION.

SELECTIVE ELECTRICAL DEMOLITION PLAN GENERAL NOTES:

1. FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SEE DRAWING ECS-1 & ECS-2.
2. ALL ELECTRICAL DEVICES, EQUIPMENT, WIRES, CONDUITS THAT ARE NOT SHOWN ARE EXISTING TO REMAIN. PROPERLY PROTECT THEM FROM DAMAGE DURING DEMOLITION.
3. LOCATION OF ALL EXISTING CONDUITS, EQUIPMENT ARE APPROXIMATE. VERIFY IN FIELD PRIOR TO COMMENCING WORK.
4. THE WORK HEREIN CONSISTS OF PROVIDING MATERIALS, EQUIPMENT, LABOR AND SERVICES, AND PERFORMING OPERATIONS REQUIRED TO REMOVE/RELOCATE ANY ELECTRICAL CONDUITS, EQUIPMENT AND ASSOCIATED WRING THAT INTERFERE WITH THE PERFORMING OF THE STRUCTURAL REPAIRS.
5. PRIOR ANY REMOVAL, THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING WIRING IN FIELD AND MAINTAIN THE ELECTRICAL SERVICES OF ANY EQUIPMENT AND OTHER AREAS THAT NEED TO REMAIN OPERATIONS, UPON OWNER'S REQUEST, DURING THE STRUCTURAL REPAIRS BY MAINTAINING EXISTING WIRING OR RELOCATING AND REWIRING.
6. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE POWER SUPPLY, CIRCUIT INTEGRITY AND FULLY FUNCTION OF THE EXISTING FIRE ALARM & COMMUNICATION SYSTEM. IF ANY TEMPORARILY REMOVAL OF FIRE ALARM & COMMUNICATION DEVICES AND WIRING IS REQUIRED, CONTRACTOR SHALL COORDINATE WITH OWNER, FIRE ALARM COMPANY AND FIRE DEPARTMENT PRIOR TO THE REMOVAL.
7. THE CONTRACTOR SHALL PERFORM ALL THE WORK UNDER THIS SECTION WITH MINIMAL INTERFERENCE WITH FUNCTIONING EXISTING ELECTRICAL SYSTEMS WITHIN AND OUTSIDE THE CONTRACT AREAS. ALL EXISTING SYSTEMS THAT NEED TO REMAIN IN SERVICES SHALL BE PROTECTED AGAINST DAMAGE. SHOULD ANY EXISTING SYSTEMS OF THEM BE AFFECTED, THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH OWNER AND THE AFFECTED SYSTEMS SHALL BE RESTORED.
8. DEMOLITION WORK SHALL BE SUBJECT TO DIRECTION AND APPROVAL OF THE CITY OR THE CITY'S REPRESENTATIVE, AND SHALL NOT INTERFERE WITH ACTIVITIES IN OTHER BUILDING AREAS.
9. THE WORK UNDER THIS SECTION SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION/OR TO RECEIVE NEW FINISHES AT NO ADDITIONAL COST.
10. THE CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED OR DEMOLISHED PRIOR TO DEMOLITION WORK, UPON ANY REQUEST BY OWNER TO KEEP ANY MATERIALS, THE CONTRACTOR SHALL REMOVE AND DELIVER THE MATERIALS TO AN APPROVED LOCATION.
11. ALL EXISTING EQUIPMENT AND MATERIALS TO BE SALVAGED OR REUSED AS INDICATED BY THE PLAN SHALL BE STORED IN A SAFE PLACE AS DIRECTED BY OWNER AND BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED TO THE CONTRACTOR'S BEST CAPACITY. IN CASE WHERE THE EXISTING EQUIPMENT OR MATERIALS CANNOT BE PROPERLY RESTORED DUE TO PRIOR DEFECTS, THE CONTRACTOR SHALL REPORT TO ENGINEER AND OWNER FOR DIRECTIONS.
12. UNLESS OTHERWISE, THE CONTRACTOR OWNS ALL DEMOLISHED OR REMOVED MATERIALS ON SITE, AND IS RESPONSIBLE TO PROMPTLY DISPOSE IN A LEGAL MANNER.
13. THE CONTRACTOR SHALL COORDINATE THE PROJECTED DEMOLITION WORK AND PHASING SCHEDULES WITH OWNER AND OTHER TRADES AT THE APPROPRIATE TIME SO THAT THE REMOVAL OR RELOCATION OF ANY EXISTING CONDUITS, WIRING AND EQUIPMENT MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
14. ANY ELECTRICAL SERVICE SHUTDOWNS REQUIRED SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER BEFORE THEY ARE IMPLEMENTED. SUFFICIENT ADVANCE NOTICE MUST BE PROVIDED TO THE OWNER.
15. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER DISCIPLINES PRIOR TO THE WORK. IDENTIFY ALL ELECTRICAL CONDUIT TO REMAIN. TRANSMIT TO OTHER TRADES AND PARTICIPATE IN ALL TRADES COORDINATION DRAWINGS.
16. WHERE EXISTING ELECTRICAL OR COMMUNICATION SERVICES ARE TO BE ABANDONED IN PLACE, SERVICES SHALL BE TERMINATED IN ACCORDANCE WITH THE N.E.C.



1 ED-1 FIRST FLOOR SELECTIVE ELECTRICAL DEMOLITION PLAN
SCALE: 3/16"=1'-0"

SELECTIVE ELECTRICAL DEMOLITION PLAN KEY NOTES

SYMBOL: (X)→

ED1 DISCONNECT AND REMOVE THE EXISTING ELECTRICAL CONDUIT, ASSOCIATED WIRING AND ACCESSORIES ATTACHED TO THE EXTERIOR WALL. SALVAGE THE EXISTING CONDUIT FOR REUSE IF FEASIBLE. IDENTIFY, DISCONNECT AND TEMPORARILY "SAFE-OFF" AND CLEARLY TAG/MARK ASSOCIATED EXISTING WIRING, PREPARE FOR RECONNECTION.

ED2 DISCONNECT AND REMOVE THE EXISTING EXTERIOR LIGHT FIXTURE, ASSOCIATED WIRING/CONDUIT AND THE JUNCTION BOX. REMOVE ANY ACCESSORIES ATTACHED TO THE EXTERIOR WALL. SALVAGE THE EXISTING LIGHT FIXTURE AND DELIVER TO OWNER. PREPARE FOR INSTALLATION OF NEW LED LIGHT FIXTURE AT THE ORIGINAL LOCATION.

ED3 DISCONNECT AND DEMOLISH THE EXISTING EXTERIOR LIGHT FIXTURE, ASSOCIATED WIRING/CONDUIT AND THE JUNCTION BOX. REMOVE ANY ACCESSORIES ATTACHED TO THE EXTERIOR WALL.

ED4 VERIFY THE EXISTING MOTOR AND THE DISCONNECT FOR THE GARAGE DOOR IN FIELD. REMOVE AND DISCONNECT THE EXISTING MOTOR, DISCONNECT, CONDUIT AND ASSOCIATED ACCESSORIES FROM THE INTERIOR WALL.SALVAGE, IDENTIFY, TEMPORARILY "SAFE-OFF" AND CLEARLY TAG/MARK ASSOCIATED EXISTING WIRING, PREPARE FOR RECONNECTION IN FIELD.

ED5 VERIFY THE EXISTING JUNCTION BOX IN FIELD. REMOVE THE EXISTING JUNCTION BOX, CONDUIT AND ASSOCIATED ACCESSORIES ON THE INTERIOR WALL. IF THE EXISTING WIRING IS NOT IN SERVICE ANYMORE, DISCONNECT AND DEMOLISH THE EXISTING WIRING BACK TO THE JUNCTION BOX WHERE IT ORIGINATES FROM. OTHERWISE, IDENTIFY, DISCONNECT, TEMPORARILY "SAFE-OFF" AND CLEARLY TAG/MARK ASSOCIATED EXISTING WIRING, PREPARE FOR RECONNECTION.

ED6 DISCONNECT AND REMOVE THE EXISTING VERTICAL & HORIZONTAL ELECTRICAL CONDUIT MOUNTED ON THE INTERIOR WALL. REMOVE THE ASSOCIATED ACCESSORIES. SALVAGE THE EXISTING CONDUITS FOR REUSE IF FEASIBLE. IDENTIFY, DISCONNECT, TEMPORARILY "SAFE-OFF" AND CLEARLY TAG/MARK ALL ASSOCIATED EXISTING WIRING, PREPARE FOR RECONNECTION.

ED7 PROVIDE NEW TEMPORARY SUPPORTS FOR THE EXISTING CONDUITS AND JUNCTION BOX FROM FLOOR OR OTHER NEAR STRUCTURES PER NEC SUCH THAT THE TEMPORARY SUPPORTS OR THEIR ACCESSORIES WILL NOT ATTACH TO THE INTERIOR WALL STRUCTURAL REPAIR AREA AND WILL NOT INTERFERE WITH THE PERFORMING THE STRUCTURAL REPAIR. THEN REMOVE THE EXISTING WALL MOUNT HANGERS FOR THE EXISTING CONDUITS IN THE AREA OF STRUCTURAL REPAIR.

ED8 VERIFY THE EXISTING ELECTRICAL DISCONNECT FOR THE EXISTING HEAT-PUMP CONDENSER IN FIELD. DISCONNECT AND REMOVE THE EXISTING DISCONNECT, CONDUIT AND ASSOCIATED ACCESSORIES FROM THE EXTERIOR WALL. SALVAGE, IDENTIFY, TEMPORARILY "SAFE-OFF" AND CLEARLY TAG/MARK ASSOCIATED EXISTING WIRING, PREPARE FOR RECONNECTION.

REVISIONS

ISSUE	DATE	REVISIONS
0	12/07/2021	BID/PERMIT SET

PHILADELPHIA MANETO

PROJECT COORDINATOR: FREDDA LIPPES

SEALS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL YIQIANG LIN ENGINEER No. PE086283

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CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
CAPITAL PROJECTS DIVISION
1400 JFK BLVD 7TH FLR CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
DPP ZONE 5 GARAGE RENOVATIONS

DRAWING TITLE
SELECTIVE ELECTRICAL DEMO PLANS & NOTES

PROJECT NO.	DRAWING NO.
20-20-4897-01	ED-1
DATE: 12/07/2021	
SCALE: AS NOTED	
DRAWN BY: MY	
CHECKED BY: LH	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE SITE BEFORE PROCEEDING WITH THE WORK.

HATCH LEGEND:

STRUCTURAL REPAIR AREA. COORDINATE WITH THE ARCHITECT AND STRUCTURAL ENGINEER FOR EXACT LOCATION.

ELECTRICAL PLAN KEY NOTES

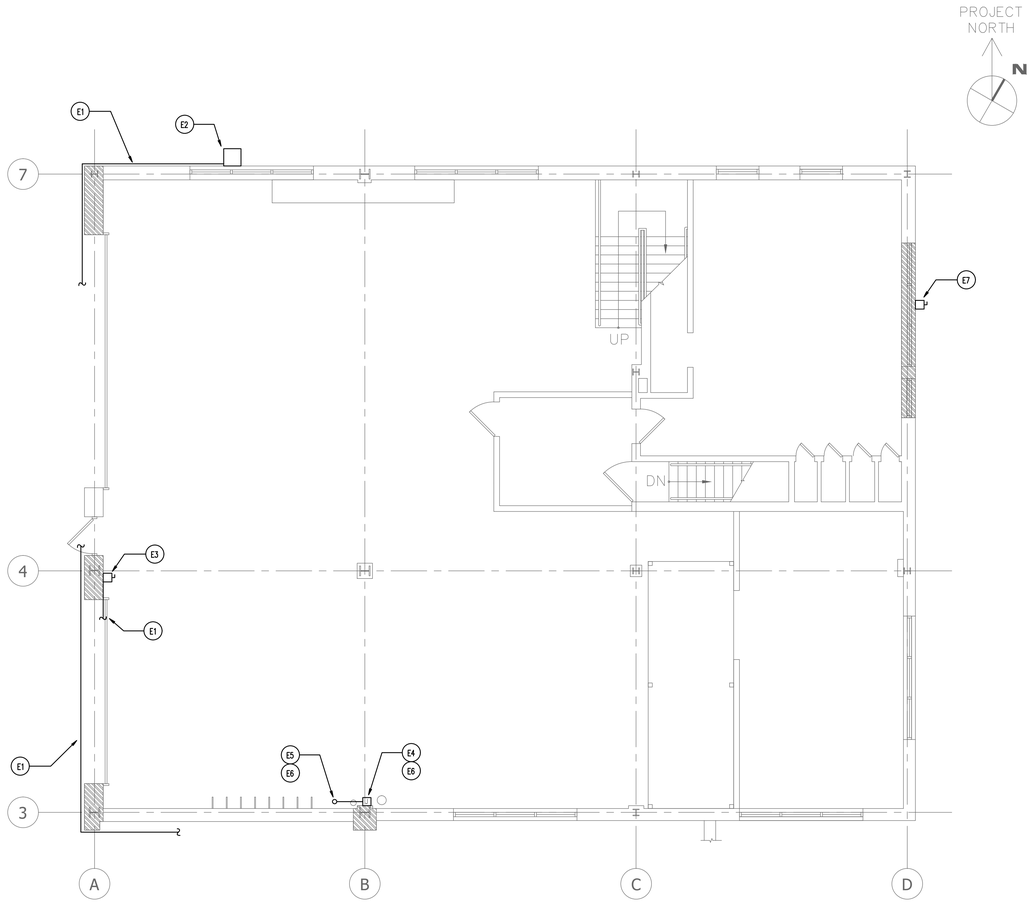
SYMBOL: (X)→

- (E1) REUSE AND RECONNECT THE EXISTING WIRING. REINSTALL THE CONDUIT AND ASSOCIATED SUPPORTS AND ACCESSORIES AT THE ORIGINAL LOCATION PER NEC.
- (E2) REUSE AND EXTEND THE EXISTING WIRING, INSTALL NEW LED LIGHT FIXTURE AT THE ORIGINAL LOCATION.
- (E3) REUSE AND REINSTALL THE EXISTING MOTOR, DISCONNECT, WIRING, CONDUIT, ASSOCIATED SUPPORTS AND ACCESSORIES AT THE ORIGINAL LOCATION AS SHOWN IN THE PLAN PER NEC.
- (E4) REUSE AND REINSTALL THE EXISTING JUNCTION BOX AND ASSOCIATED SUPPORTS AT THE ORIGINAL LOCATION PER NEC.
- (E5) REUSE AND RECONNECT THE EXISTING WIRING. REINSTALL THE VERTICAL & HORIZONTAL CONDUIT, ASSOCIATED SUPPORTS AND ACCESSORIES AT THE ORIGINAL LOCATION PER NEC.
- (E6) REMOVE THE TEMPORARY SUPPORTS FROM FLOOR OR NEAR STRUCTURES FOR THE EXISTING CONDUITS AND PROVIDE NEW SUPPORTS AND ACCESSORIES ON THE INTERIOR WALL FOR THE EXISTING CONDUIT.
- (E7) REUSE AND REINSTALL THE EXISTING DISCONNECT, WIRING, CONDUIT, ASSOCIATED SUPPORTS AND ACCESSORIES AT THE ORIGINAL LOCATION PER NEC.

LIGHTING FIXTURE SCHEDULE

SYMBOL/TAG	DESCRIPTION	BASIS OF DESIGN	CATALOG NUMBER	LAMP	WATTAGE	VOLTS
□	EXTERIOR LED WALL LUMINAIRE	LITHONIA	TWX2 LED – ALO – 30K – MVOLT – PE – DDBXD	LED	54W	120V

NOTE: 1. ALL MANUFACTURE AND CATALOG NUMBER IN LIGHTING FIXTURE SCHEDULE ARE BASIS OF DESIGN. CONTRACTOR SHALL SELECT AS THE SAME OR THE EQUIVALENT.



1 / E-1 FIRST FLOOR ELECTRICAL PLAN
SCALE: 3/16"=1'-0"

REVISIONS

ISSUE	DATE	REVISIONS
0	12/07/2021	BID/PERMIT SET

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