

CDBG YEAR 39 RENOVATION OF EXISTING FIRE HOUSE BOROUGH OF WOODLYNNE WOODLYNNE FIRE DEPARTMENT STATION 173 CO. NO. 1

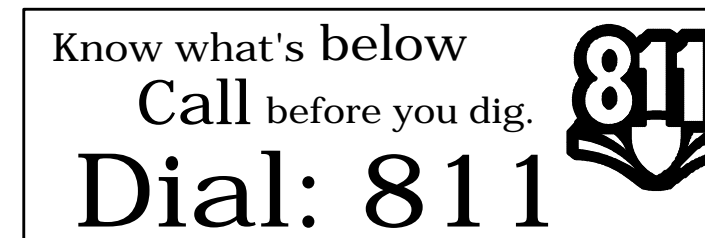
**200 COOPER AVENUE
WOODLYNNE, NEW JERSEY 08107**



304 White Horse Pike
Haddon Heights, New Jersey 08035

Tel 856-546-8611
Fax 856-546-8612

www.BachDesignGroup.com



CONTRACTOR NOTE:
CONTRACTOR MUST CONTACT ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION TO VERIFY THAT THE MOST CURRENT AND ARCHITECT/ENGINEER APPROVED REVISION SET OF PLANS ARE BEING USED. ANY CORRECTIONS AND OR CHANGES TO THE PLAN SET WHICH ARE NECESSARY DUE TO USE OF INVALID PLAN SETS ARE AT THE SOLE EXPENSE OF THE OWNER/CONTRACTOR. ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY/LIABILITY FOR ANY WORK PERFORMED BASED ON INVALID PLAN SETS.

NOTE TO ALL BIDDERS:
"BID PACKAGE" IS INCLUSIVE OF ALL DRAWING SHEETS LISTED ON THIS COVER SHEET, ALL SPECIFICATIONS LISTED IN SPECIFICATION TABLE OF CONTENTS, AND ALL ADDENDA ISSUED PRIOR TO BID OPENING. BIDS SUBMITTED ARE ASSUMED TO BE COMPREHENSIVE AND ACCOUNTING FOR INFORMATION CONTAINED THROUGHOUT ENTIRE "BID PACKAGE". IT IS THE RESPONSIBILITY OF BIDDER TO PROVIDE ALL SUBCONTRACTORS, VENDORS, MATERIAL AND LABOR SUPPLIERS, ETC, WITH COMPLETE BID PACKAGE. FAILURE TO DO SO WILL NOT PRECLUDE RESPONSIBILITY TO PROVIDE ALL WORK DESCRIBED IN THE "BID PACKAGE".

Index of Drawings:

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- A-1 PARTIAL FLOOR PLAN AND ELEVATION**
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- S-1 FLOOR PLAN, ELEVATION, AND DETAILS**

Code Review Data:

APPLICABLE BUILDING CODES & GUIDELINES

2018 INTERNATIONAL BUILDING CODE – NEW JERSEY EDITION
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2017 NATIONAL ELECTRIC CODE
2018 NATIONAL STANDARD PLUMBING CODE
2009 ICC/ANSI A117.1

USE GROUP CLASSIFICATION (304.1)

B-BUSINESS

TYPE OF CONSTRUCTION (CHAPTER 6)

3B

HEIGHT LIMITATIONS (TABLE 504.3)

B-BUSINESS, 40' (VB CONSTRUCTION, NOT SPRINKLERED)

STORY LIMITATIONS (TABLE 504.4)

B-BUSINESS, 2 STORY (VB CONSTRUCTION, NOT SPRINKLERED)

AREA LIMITATIONS (TABLE 506.2)

B-BUSINESS, 9,000 SF – (VB CONSTRUCTION, NOT SPRINKLERED)

AREA OF FLOOR PLAN:

B-BUSINESS: 6,782 SF



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NJ REGISTERED ARCHITECT No. AJ 14872
NJ PROFESSIONAL PLANNER No. LI 05557

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REVISIONS

NO.	DESCRIPTION	DATE

DRAWING TITLE:

**COVER SHEET
AND INDEX
OF DRAWINGS**

JOB NO: WOLYN2020-2	DESIGNED BY: AAW
DATE: 2-8-21	DRAWN BY: AAW
SCALE: AS SHOWN	CHECKED BY: DM3

DRAWING NUMBER:

C-1



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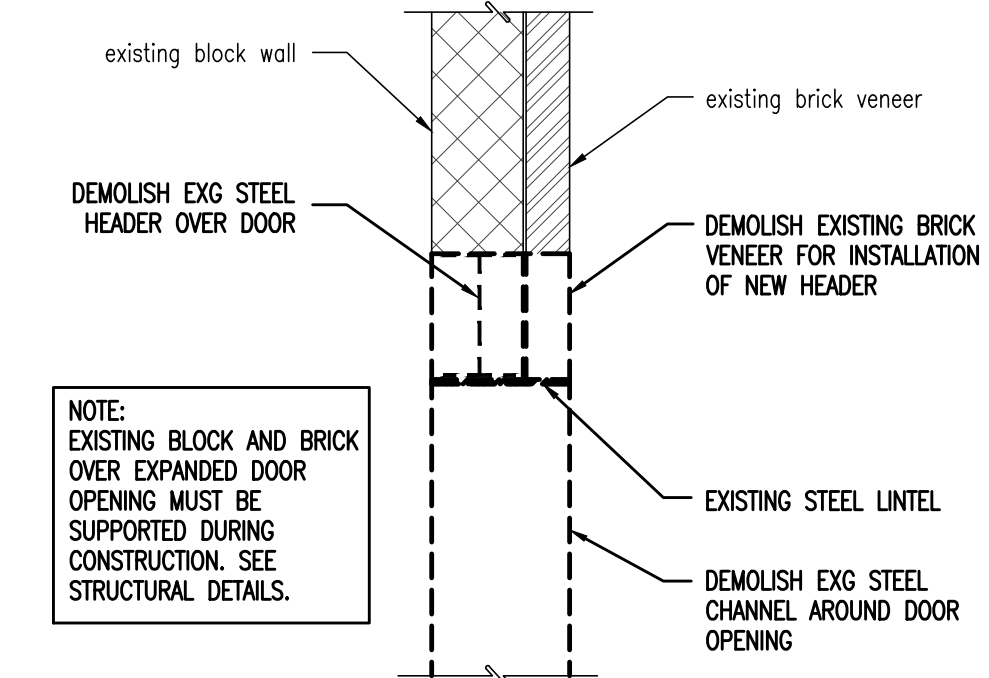
DEMOLITION PARTIAL FLOOR PLAN AND ELEVATION

JOB NO: WOLYN2020-2	DESIGNED BY: AAW
DATE: 2-8-21	DRAWN BY: AAW
SCALE: AS SHOWN	CHECKED BY: DM3
DRAWING NUMBER:	

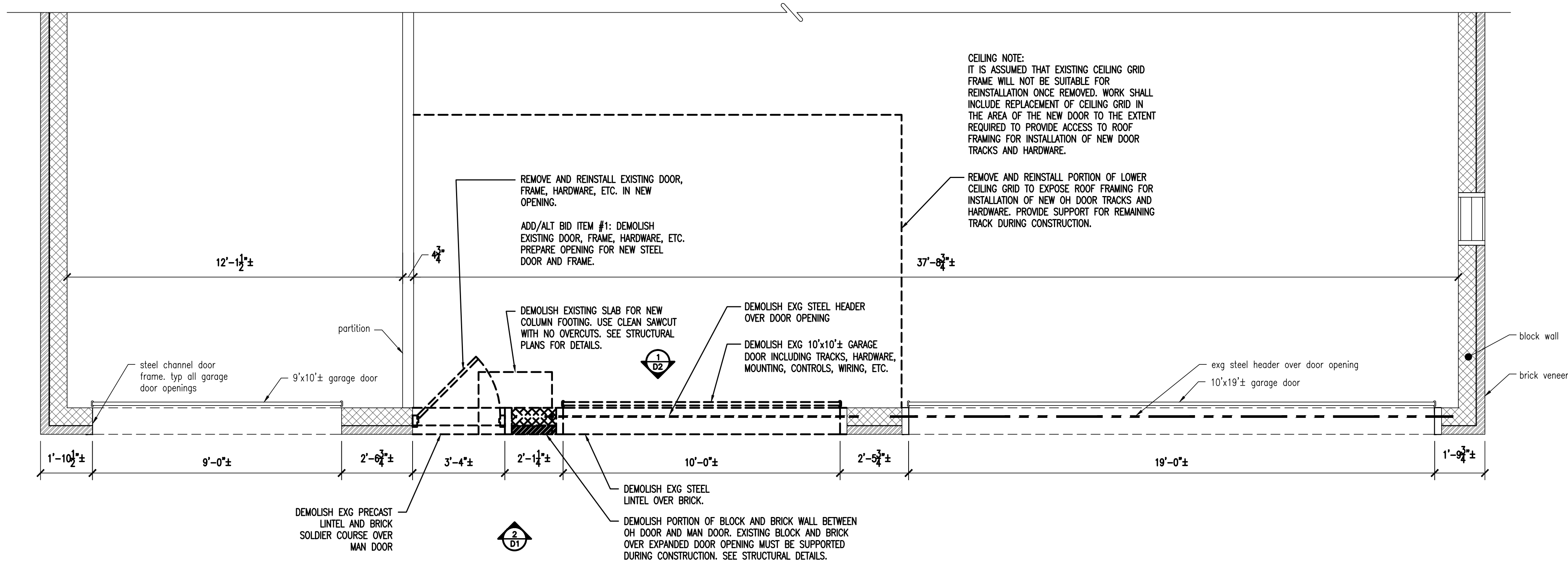
D-1

ALL EXISTING ELECTRICAL CONDUIT AND OTHER INFRASTRUCTURE DISTURBED BY EXPANSION OF GARAGE DOOR OPENING IS TO BE REROUTED AROUND NEW OPENING AND, IF NECESSARY DUE TO LONGER RUNS, DEVICES ARE TO BE REFEED IN NEW CONDUITS.

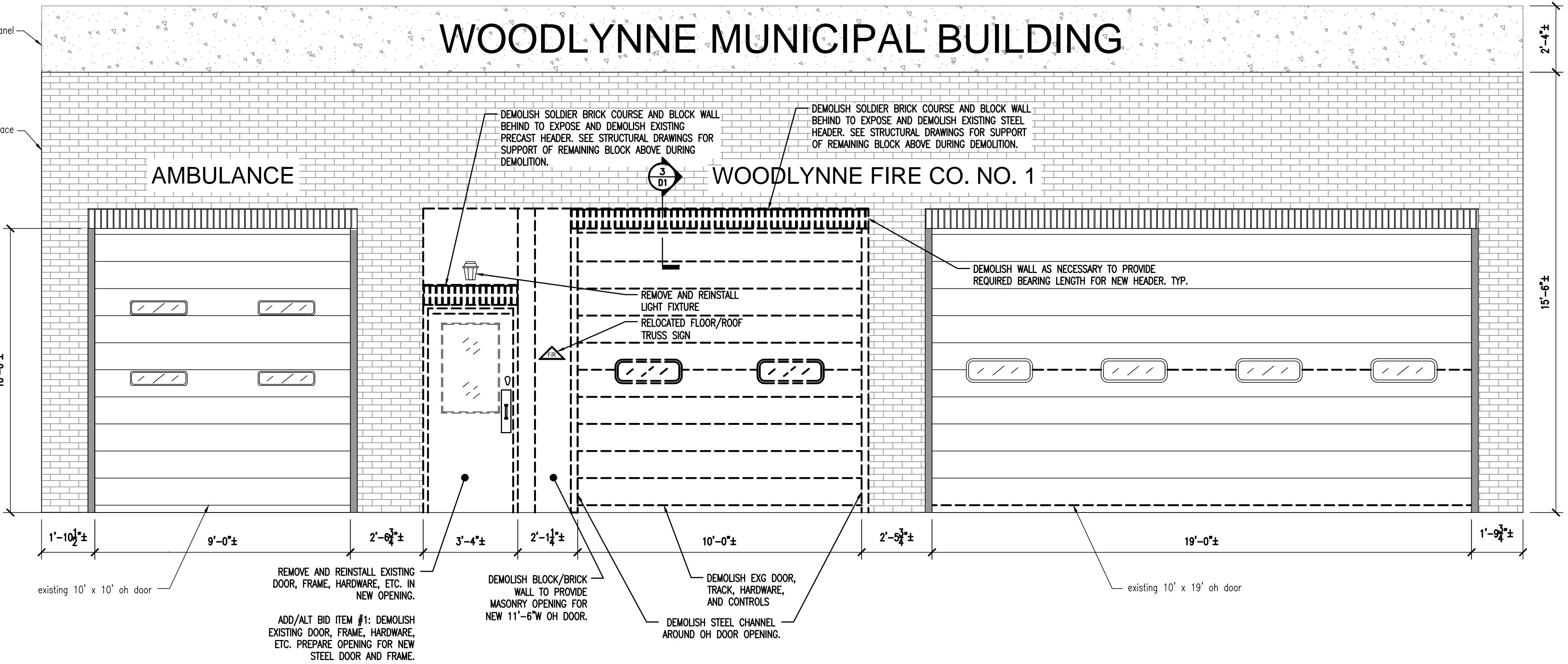
3 SECTION - EXISTING HEADER
SCALE: 3/4" = 1'-0"



CEILING NOTE:
IT IS ASSUMED THAT EXISTING CEILING GRID FRAME WILL NOT BE SUITABLE FOR REINSTALLATION ONCE REMOVED. WORK SHALL INCLUDE REPLACEMENT OF CEILING GRID IN THE AREA OF THE NEW DOOR TO THE EXTENT REQUIRED TO PROVIDE ACCESS TO ROOF FRAMING FOR INSTALLATION OF NEW DOOR TRACKS AND HARDWARE.



1 PARTIAL DEMOLITION FLOOR PLAN
SCALE: 3/8" = 1'-0"



2 DEMOLITION FRONT ELEVATION
SCALE: 3/8" = 1'-0"



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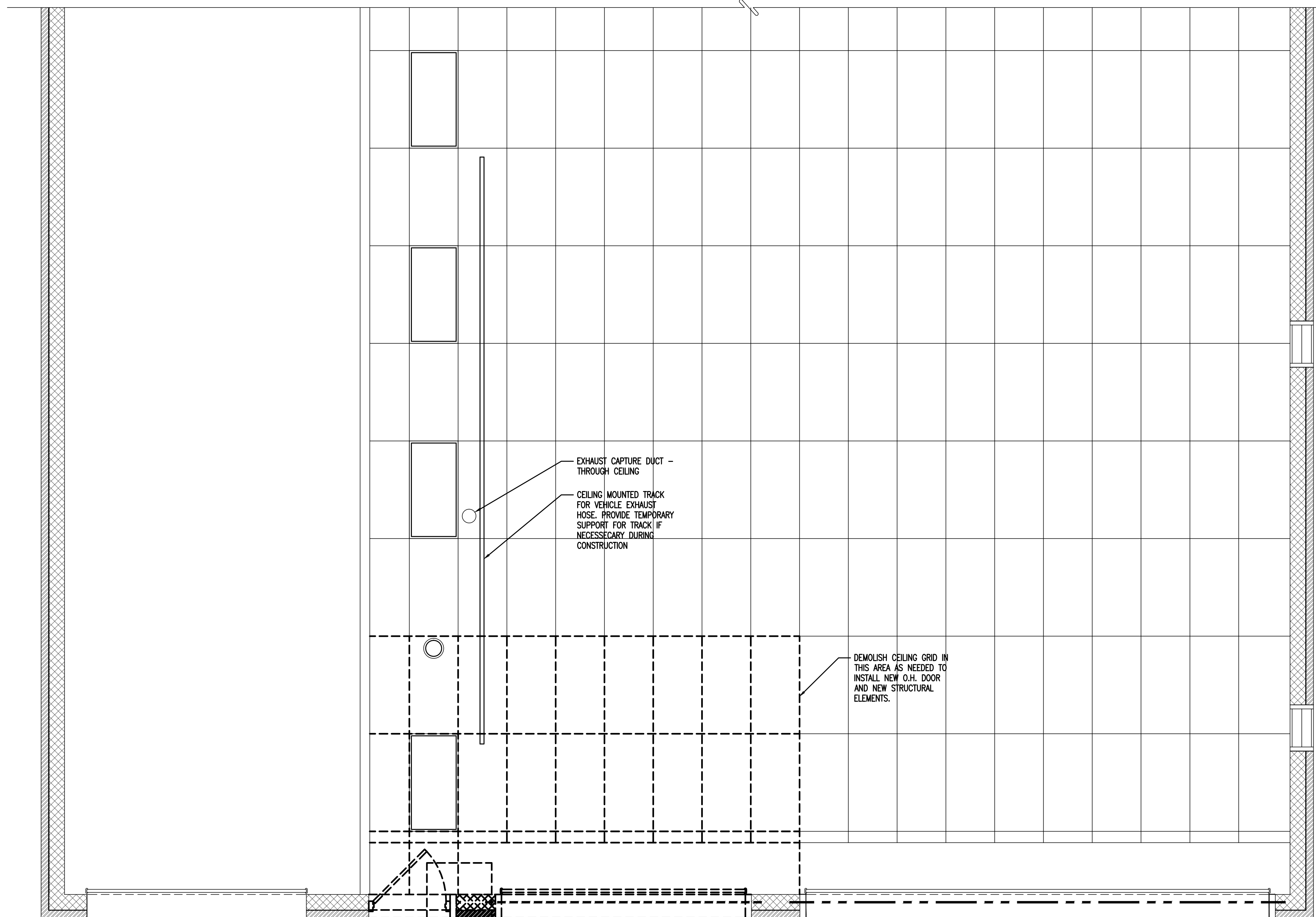
DRAWING TITLE:

**DEMOLITION
PARTIAL
CEILING PLAN**

JOB NO: WOLYN2020-2	DESIGNED BY: AAW
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D-3



1 PARTIAL DEMOLITION CEILING PLAN
SCALE: 3/8" = 1'-0"



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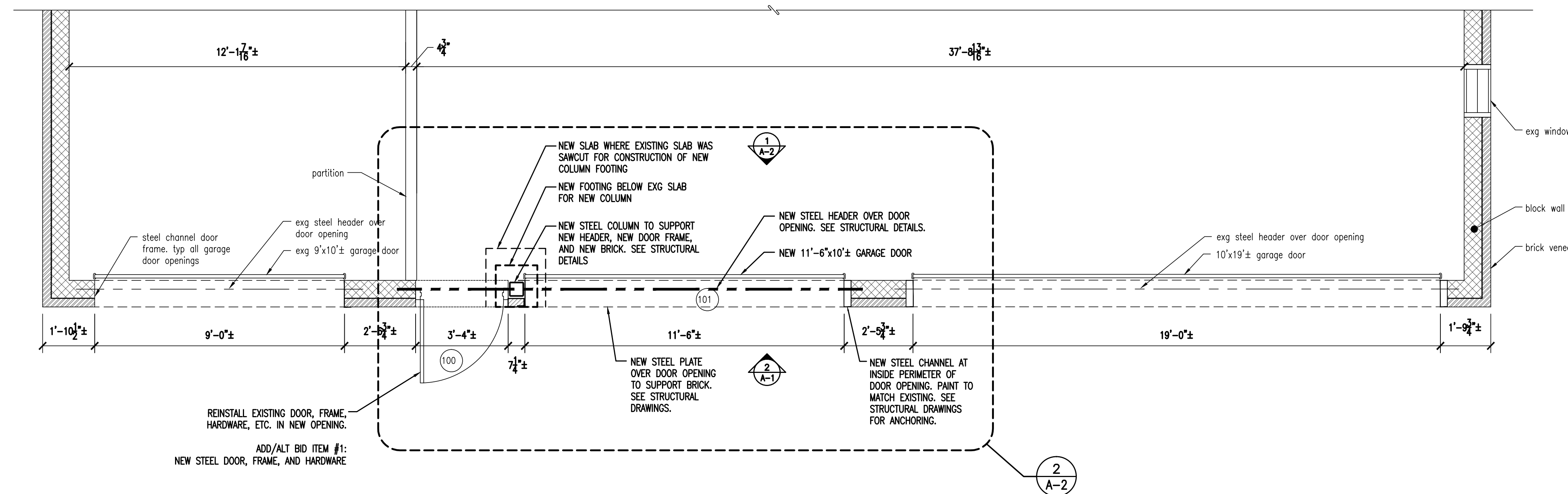
DRAWING TITLE:

PARTIAL FLOOR PLAN AND ELEVATION

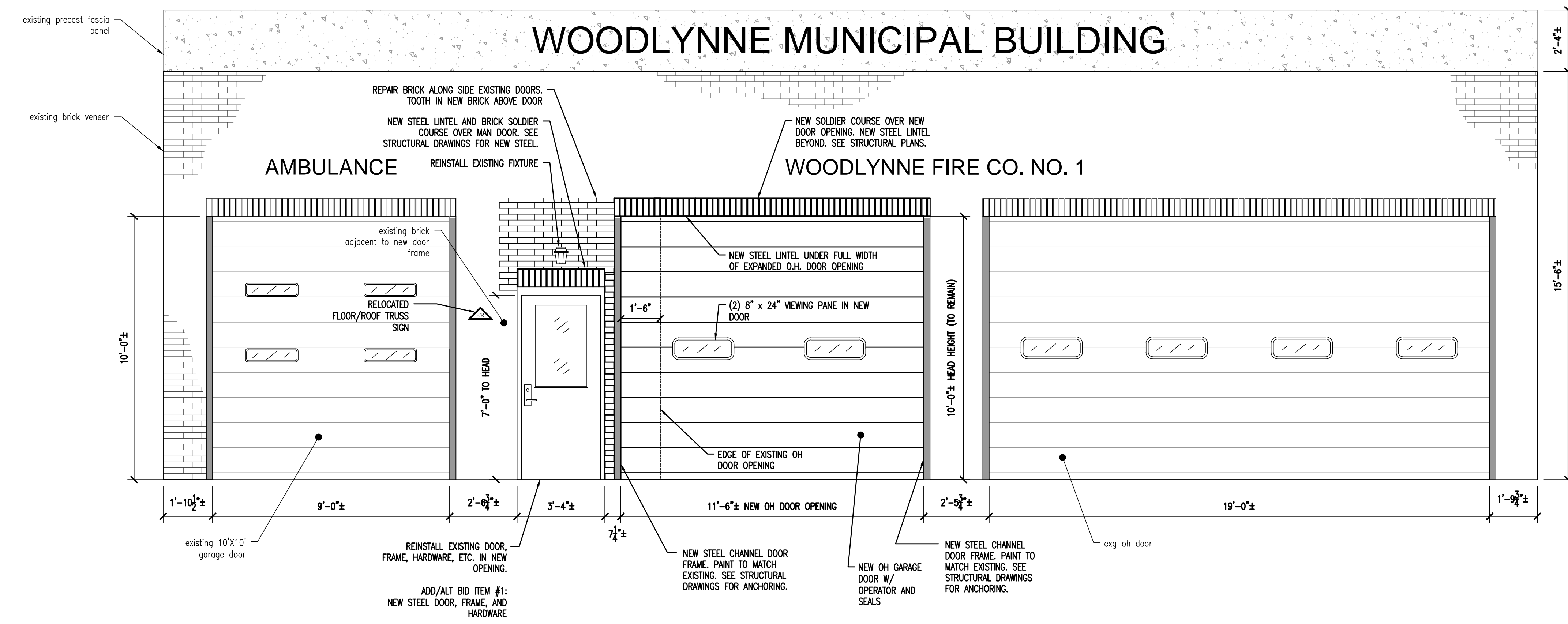
JOB NO: WOLYN2020-2	DESIGNED BY: AAW
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A-1



1 PARTIAL FLOOR PLAN
SCALE: 3/8" = 1'-0"



2 FRONT ELEVATION
SCALE: 3/8" = 1'-0"

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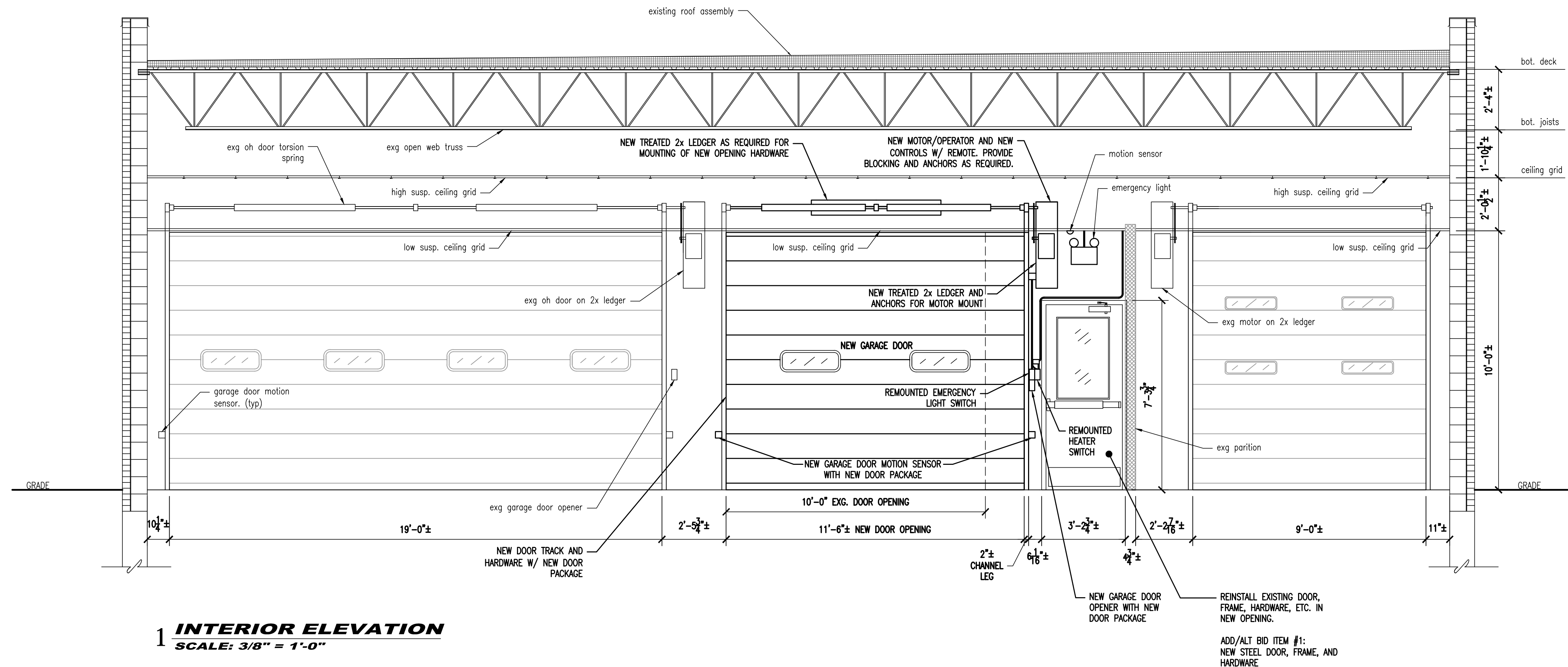
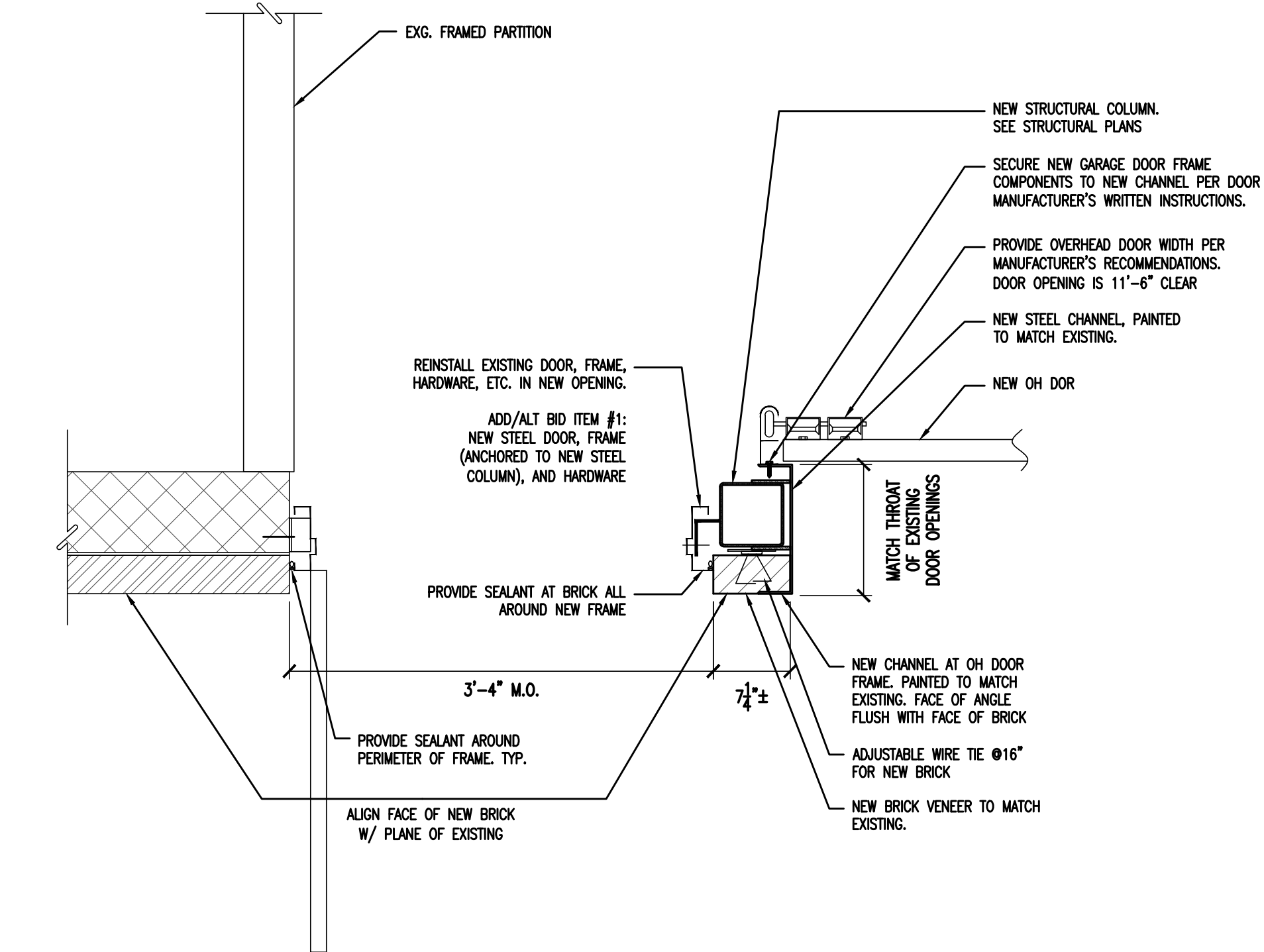
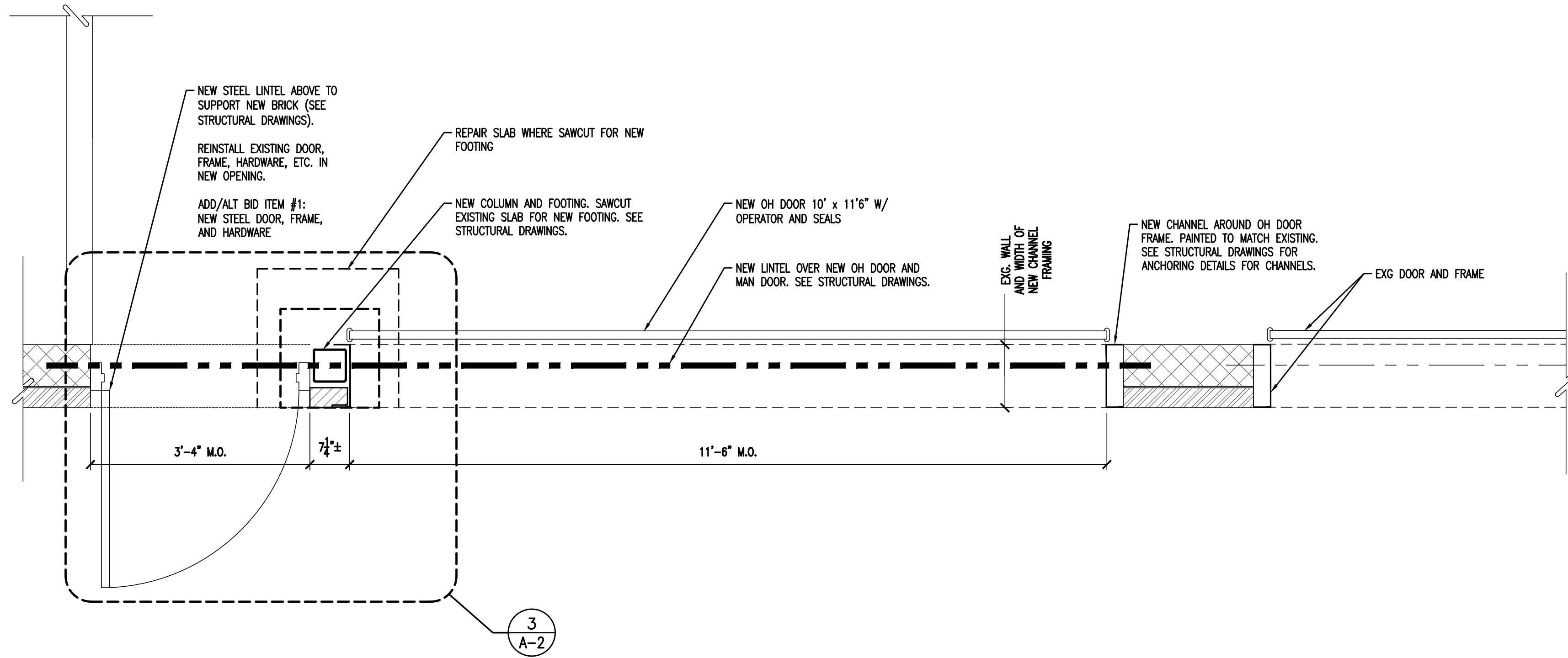
DRAWING TITLE:

SECTIONS AND DETAILS

JOB NO: WOLYN2020-2	DESIGNED BY: AAW
DATE: 2-8-21	DRAWN BY: AAW
SCALE: AS SHOWN	CHECKED BY: DM3

DRAWING NUMBER:

A-2





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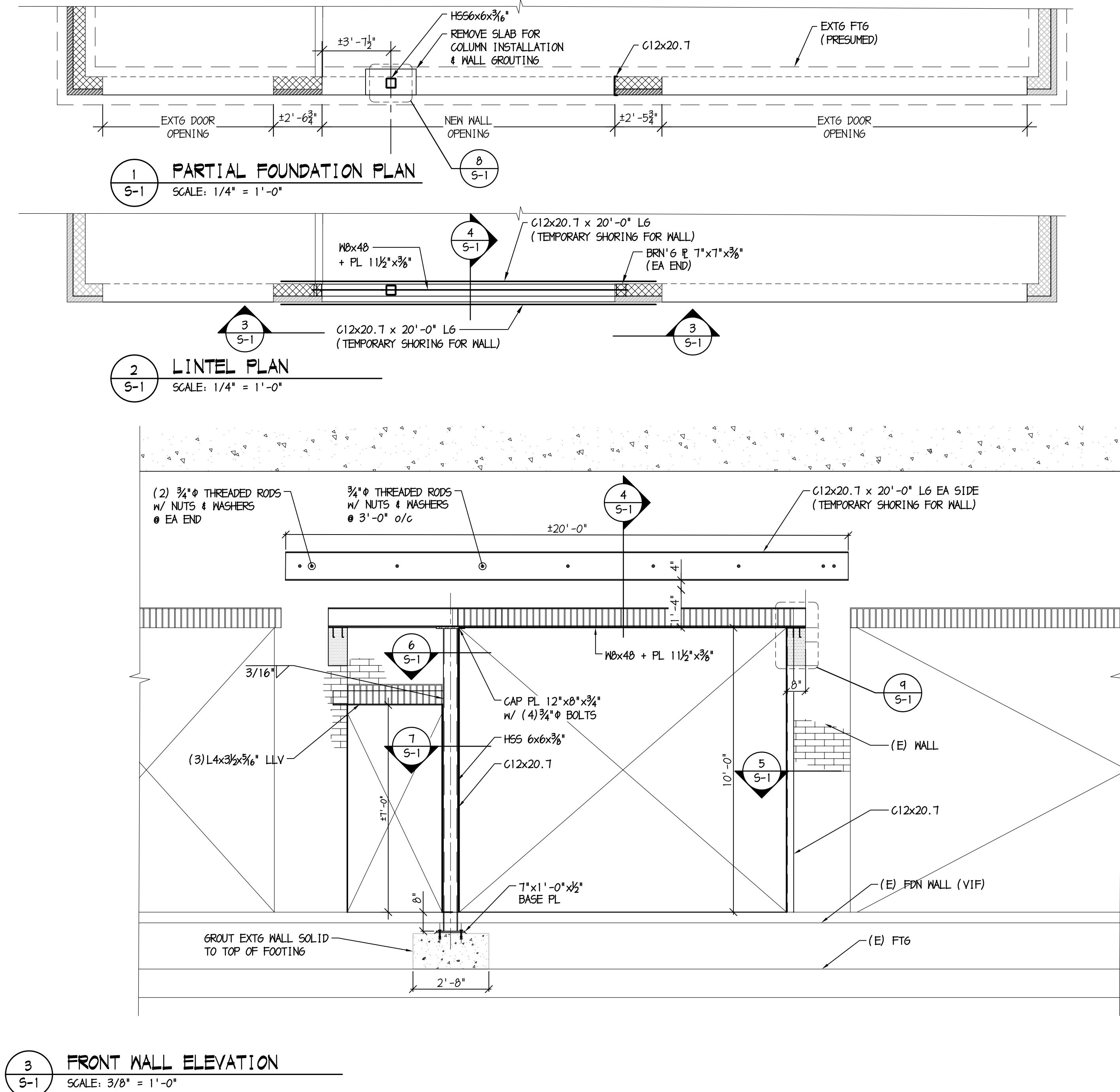
DRAWING TITLE:
FLOOR PLAN, ELEVATION, & DETAILS

JOB NO: H12801-20	DESIGNED BY: AME
DATE: 2-8-21	DRAWN BY: AME
SCALE: AS SHOWN	CHECKED BY: BDM
DRAWING NUMBER:	

S-1

BAKER, INGRAM, & ASSOCIATES
STRUCTURAL ENGINEERS
TWO WHITE HORSE PIKE HADDON HEIGHTS, NJ 08035
(856) 310-1491 fax: (856) 310-1829
NJ CERT. OF AUTHORIZATION #24GA28010400

Brian D. McGlade, PE
New Jersey PE #34227



- GENERAL**
- STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED WITH ARCHITECTURAL DOCUMENTS. COORDINATE WITH THESE DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, ETC., NOT INDICATED ON THE STRUCTURAL DOCUMENTS. ALL DIMENSIONS AND CONDITIONS, EXISTING AND NEW, SHALL BE FIELD VERIFIED. THE ENGINEER SHALL BE NOTIFIED OF DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
 - THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE STABILITY AND SAFETY DURING CONSTRUCTION.
 - SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS THAT DO NOT HAVE A SPECIFIC SECTION INDICATED, AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
 - APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OSHA.
 - IN THE ABSENCE OF SPECIFIC INSTRUCTIONS TO THE CONTRARY IN THE CONTRACT DOCUMENTS, THE TRADE PRACTICES THAT ARE DEFINED IN ANY CODE OF STANDARD PRACTICE SHALL GOVERN.

- EXISTING CONSTRUCTION NOTES**
- BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING STRUCTURAL AND OTHER CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION, AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
 - THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND CONDITIONS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - INFORMATION OBTAINED REGARDING EXISTING BUILDING WAS OBTAINED FROM LIMITED VISUAL FIELD SURVEYS AND MAY NOT ACCURATELY REFLECT ALL CONDITIONS.

- CONCRETE MASONRY**
- CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", TMS 402-16, AND "SPECIFICATIONS FOR MASONRY STRUCTURES", TMS 602-16.
 - MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY, F'M, SHALL BE 1500 PSI. (MIN NET AREA COMPRESSIVE STRENGTH OF UNIT = 1400 PSI.)
 - CONCRETE MASONRY SHALL CONFORM TO ASTM C40.
 - GROUT SHALL CONFORM TO ASTM C416, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. PROVIDE FINE AND COARSE GROUTS APPROPRIATE FOR SIZE OF VOID BEING FILLED. GROUT SHALL HAVE A MINIMUM SLUMP OF 8 INCHES PROVIDED BY SUFFICIENT WATER CONTENT. WATER-REDUCING ADMIXTURES ARE NOT PERMITTED.
 - MORTAR SHALL CONFORM TO ASTM C270, TYPE S, PCL OR MORTAR CEMENT. MASONRY CEMENT NOT PERMITTED.
 - REINFORCED VOIDS, AND NON-REINFORCED VOIDS SPECIFIED TO BE GROUTED, IN CONCRETE MASONRY SHALL BE FILLED SOLID WITH GROUT IN 5 FT. MAXIMUM LIFTS. STOP POURS 1-1/2 INCHES BELOW THE BED JOINT TO FORM A KEY AT POUR JOINTS.
 - CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND, UNO.
 - LOAD BEARING CMU SHALL HAVE FULL MORTAR BED JOINTS.

- STRUCTURAL STEEL**
- STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTION DESIGN SHALL CONFORM TO AISC'S "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, 13TH EDITION."
 - STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:
STRUCTURAL STEEL WF SHAPES ASTM 992
OTHER STRUCTURAL STEEL SHAPES ASTM 36, UNO
STEEL BARS, ANGLES AND PLATES ASTM A36, UNO
SQUARE AND RECTANGULAR TUBING ASTM A500, GRADE C
 - BOLTS SHALL BE MINIMUM 3/4 IN. DIA. AND SHALL CONFORM TO THE FOLLOWING DESIGNATIONS, UNO:
HIGH STRENGTH BOLTS ASTM A325
ANCHOR BOLTS ASTM F1554, GRADE 36
 - BOLTED CONNECTIONS SHALL CONFORM TO ROSC'S SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
 - WELDING, WELDING ELECTRODES, AND FLUXES SHALL CONFORM TO AWS D1.1-04 "STRUCTURAL WELDING CODE - STEEL." ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI.
 - GROUT UNDER STEEL COLUMN OR POST BASE PLATES SHALL BE NONMETALLIC, SHRINKAGE-RESISTANT GROUT CONFORMING TO ASTM C827 HAVING A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 5000 PSI. GROUT UNDER STEEL BEAM BEARING PLATES SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 3000 PSI, AND SHALL CONFORM TO ASTM C416.
 - HIGH STRENGTH BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SNUG-TIGHT CONDITION, UNO.
 - PROVIDE COLUMN GAP PLATE AS FOLLOWS, UNO:
FOR BEAM BEARING: 3/4" THICK, MIN.
PROVIDE COLUMN GAP PLATES AT ALL SQUARE, RECTANGULAR AND ROUND HSS COLUMNS.
 - ALL STEEL SHALL BE HOT-DIPPED GALVANIZED AND PAINTED. FIELD WELDS SHALL BE TOUCHED-UP WITH 2 COATS OF ZINC-RICH PAINT.