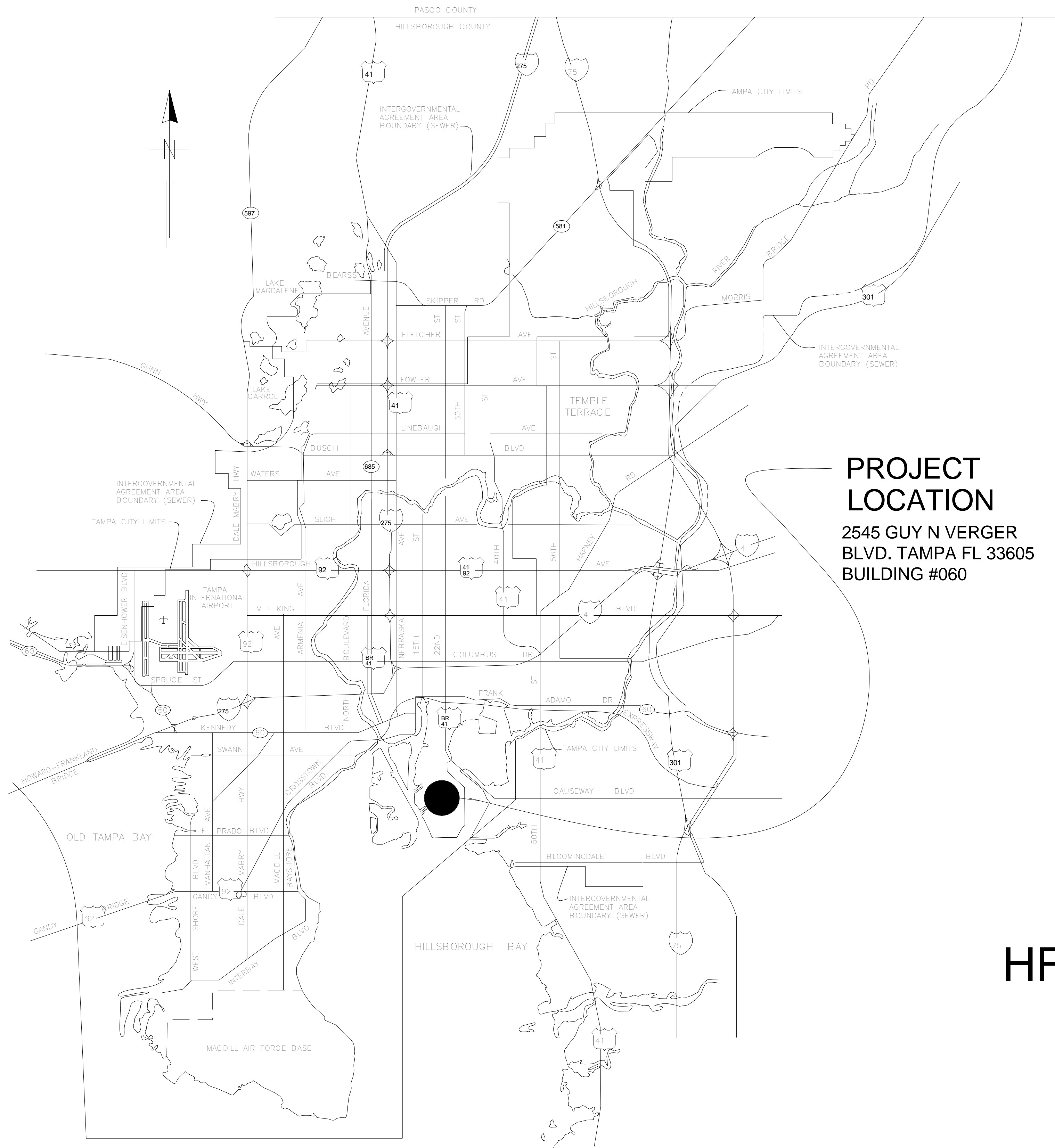


The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:
[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

LOCATION MAP



PROJECT LOCATION
2545 GUY N VERGER
BLVD. TAMPA FL 33605
BUILDING #060

CITY of TAMPA



WASTEWATER DEPARTMENT

PLANS FOR
HFC AWTP ADMINISTRATION BUILDING
AIR TREATMENT SYSTEM
CONTRACT No. 18-C-00012

SHEET INDEX	
NUMBER	SHEET NAME
C000	COVER SHEET
M000	MECH. LEGENDS, SYMBOLS, AND NOTES
M102	PROPOSED DUCT LAYOUT - HVAC
M801	MECHANICAL DETAILS
S100	DUCT SUPPORT FRAMING

VOLT AIR
CONSULTING ENGINEERS
220 West 7th Avenue, Suite 210 Tampa,
Florida 33602 Tel: 888.891.9713
www.VoltAirInc.com
COA 27158 Project No. 15121

MASTER CONSULTING ENGINEERS, INC.
STRUCTURAL CONSULTANTS
5523 WEST CYPRESS ST., STE.200
TAMPA, FLORIDA 33607-1735
P | 813.287.3600 F | 813.287.3622
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CA: 8426 PROJ NO. 2030-115

No.	DATE	REVISIONS
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1		

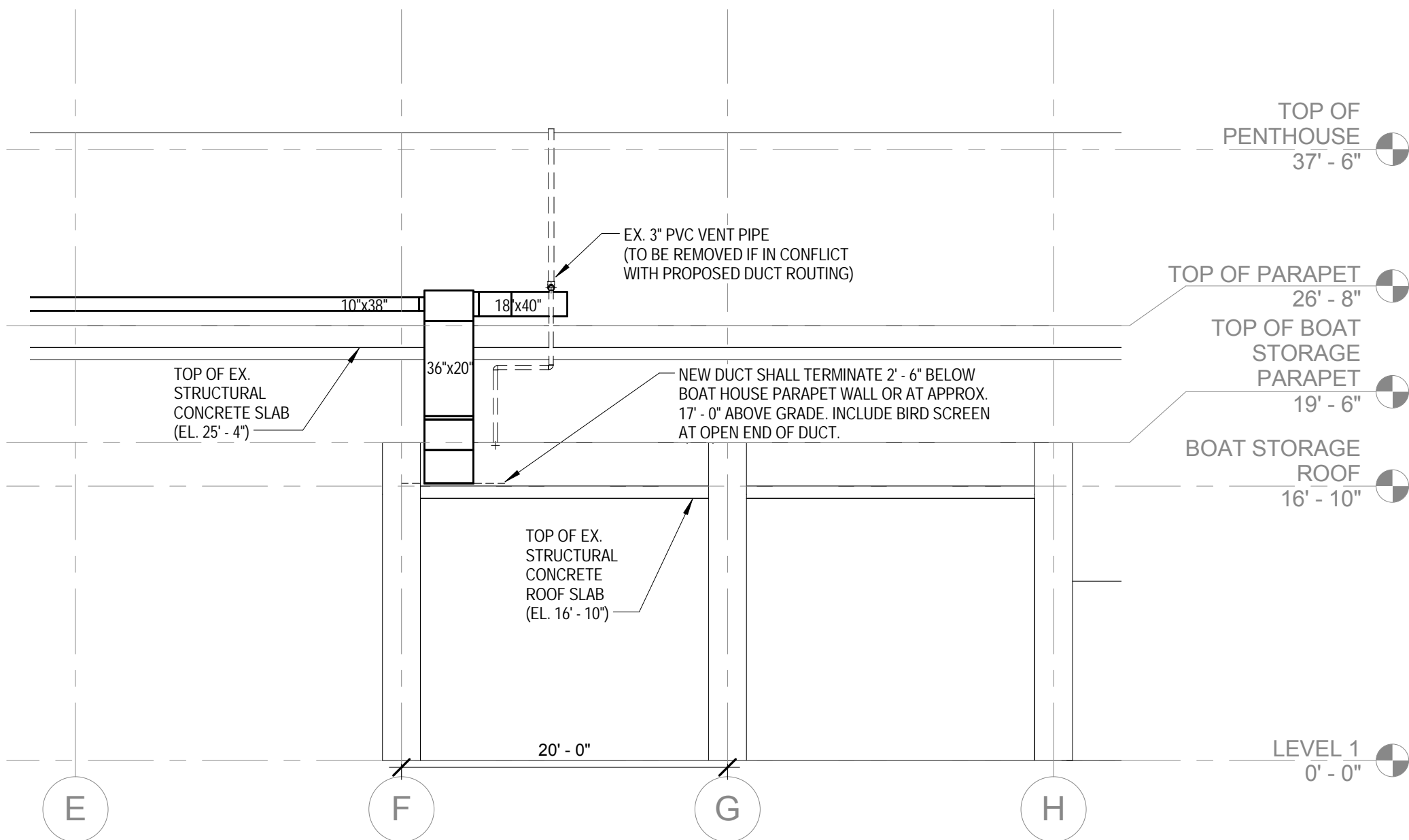
DES: AC WD
DRN:
CKD: DAC
DATE: 05/25/18

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WASTEWATER DEPARTMENT

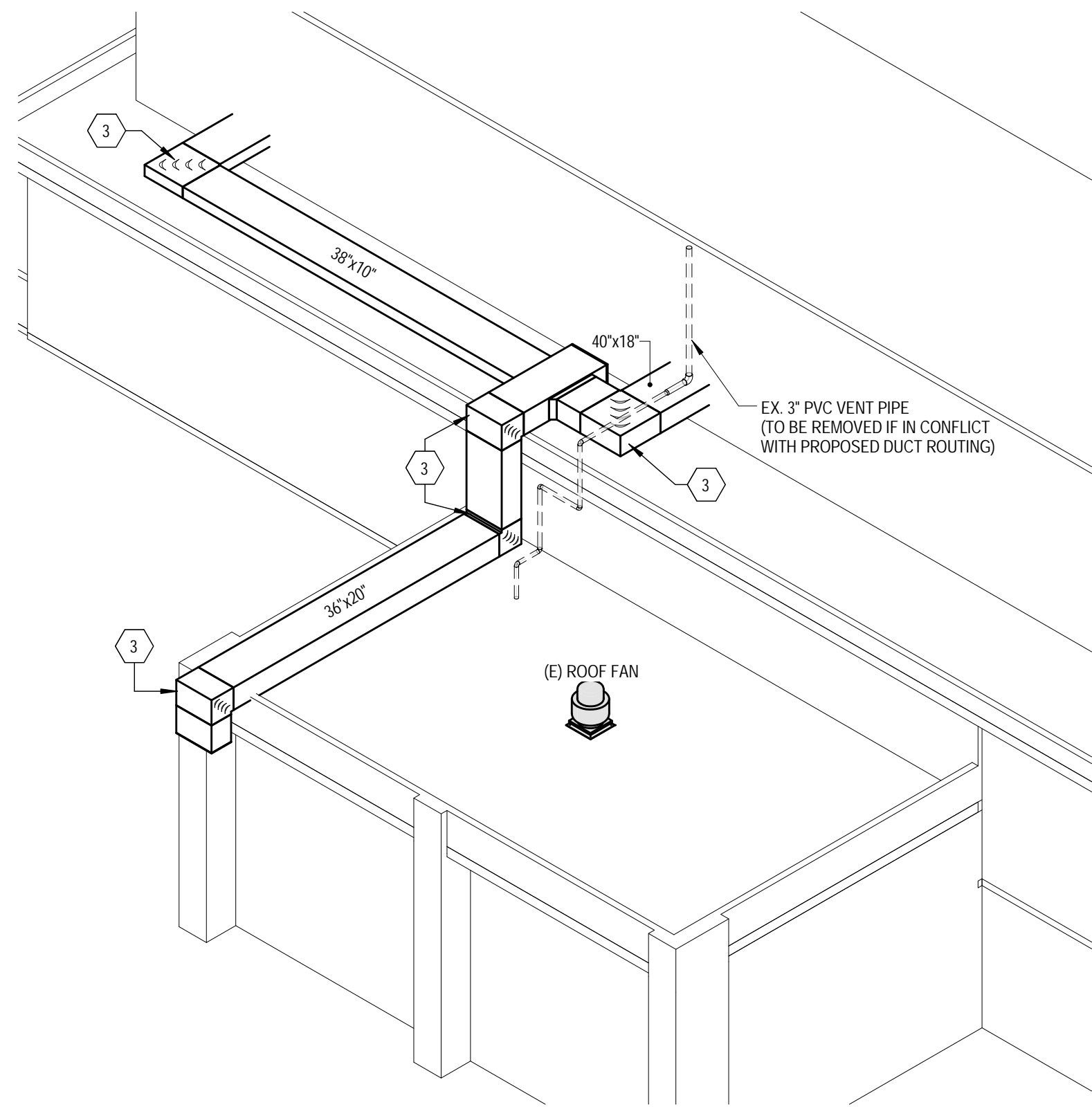
HFC AWTP ADMINISTRATION BUILDING
AIR TREATMENT SYSTEM
—
100% CONSTRUCTION DOCUMENTS

COVER SHEET

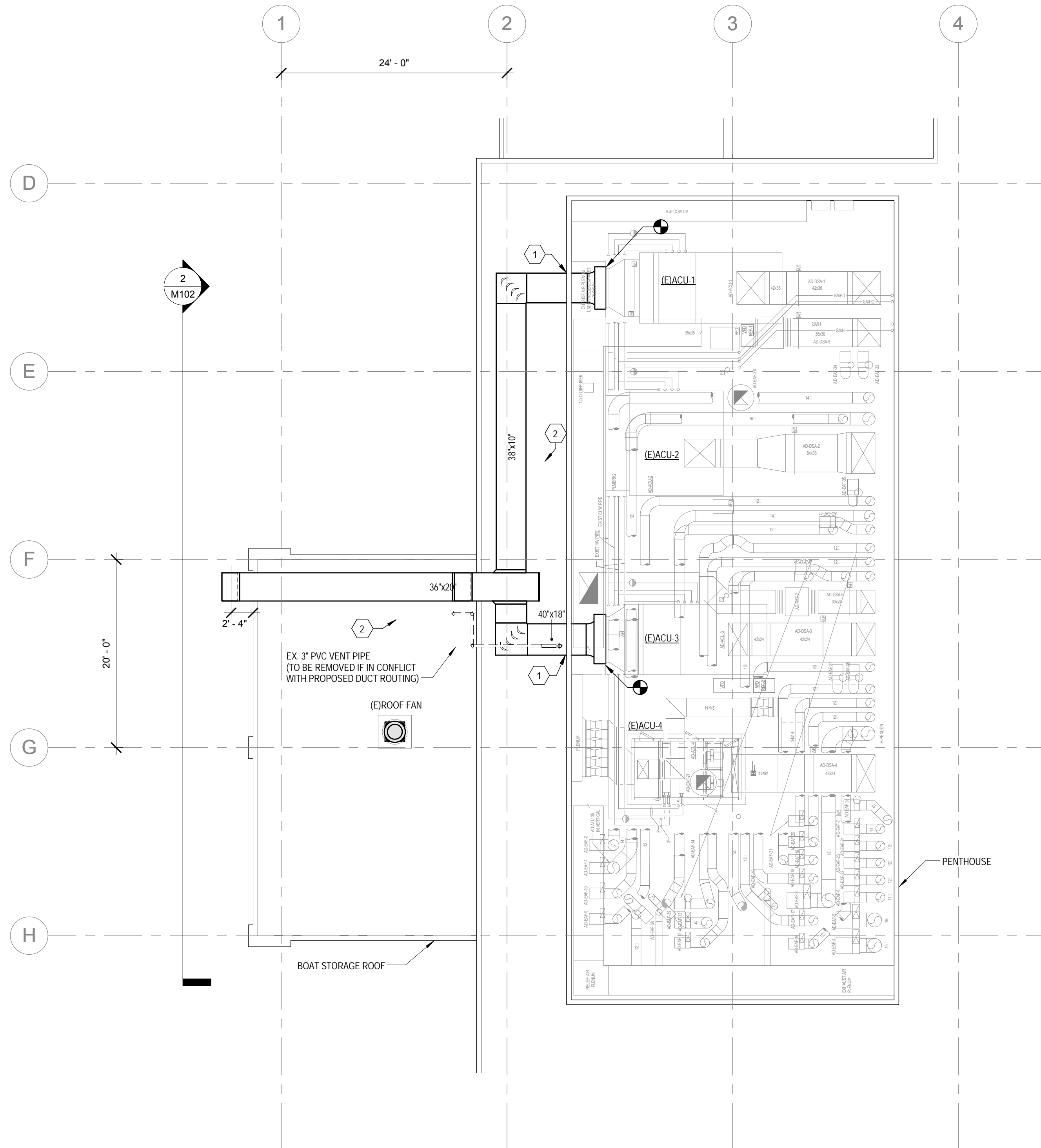
SHEET
C000



2 PROPOSED DUCT LAYOUT - NORTHWEST ELEVATION
1/8" = 1'-0"



3 PROPOSED DUCT LAYOUT - ISOMETRIC



1 PROPOSED DUCT LAYOUT - HVAC
1/8" = 1'-0"

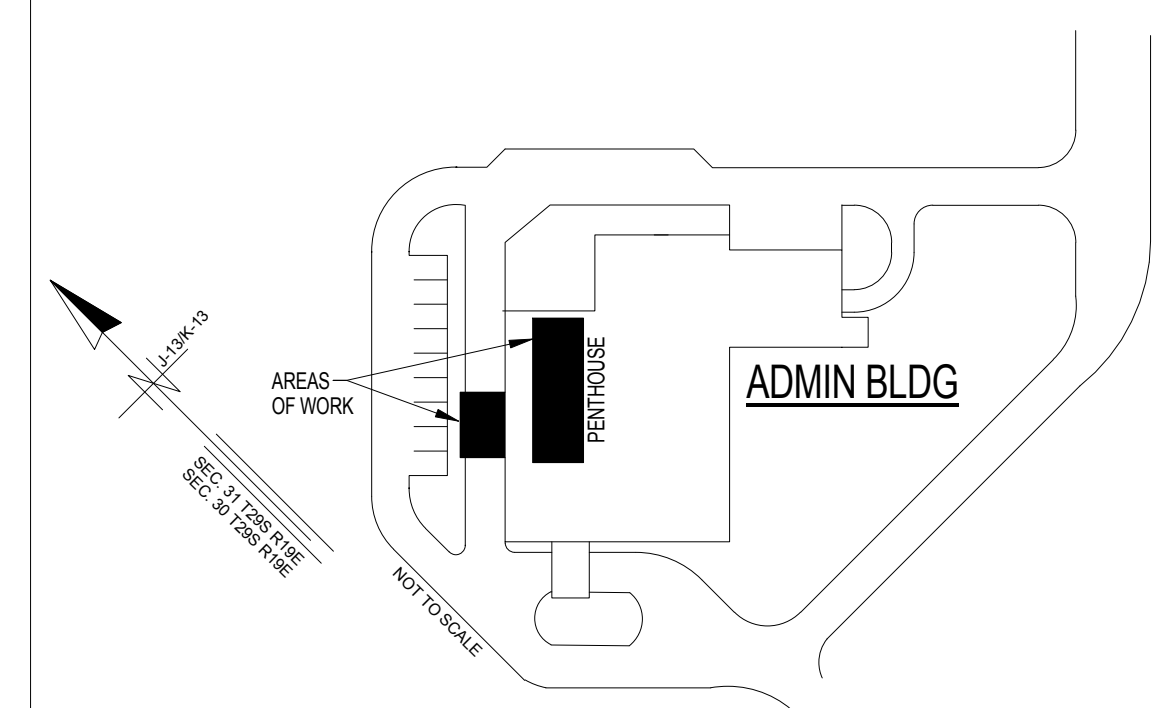
GENERAL NOTES

- PROVIDE VOLUME DAMPERS AT ALL BRANCH TAKEOFFS SERVING SINGLE DIFFUSER, GRILLE, OR REGISTER.
- PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS.
- MAINTAIN MINIMUM 6" CLEARANCE BETWEEN DUCTWORK AND RATED WALLS.
- COORDINATE DUCTWORK WITH STRUCTURE. PREPARE COORDINATION DRAWINGS AS SPECIFIED.
- PROVIDE REMOTE DAMPER OPERATORS FOR VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.
- PROVIDE ALL CODE REQUIRED AND MANUFACTURER RECOMMENDED CLEARANCES FOR ALL EQUIPMENT.
- PROVIDE A TAB REPORT FOR ACU-1 AND ACU-3 AFTER CONSTRUCTION IS COMPLETED TO CONFIRM THEY ARE PERFORMING AS DESIGNED.
- ALL HARDWARE, MOUNTINGS, SUPPORTS, FASTENERS, DUCTWORK, ETC. SHALL BE STAINLESS STEEL.
- ALL DIMENSIONS SHOWN ON THIS PLAN ARE BASED ON OWNER PROVIDED FIELD MEASUREMENTS. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL DIMENSIONS BEFORE BIDDING.

KEYNOTES

- PENETRATE EXISTING LOUVER WITH NEW DUCTWORK AT THIS LOCATION.
- EXISTING BUILT UP INSULATED ROOF SYSTEM WILL NEED TO BE REMOVED AT DUCT SUPPORTS' BASE LOCATIONS AND REPAIRED, AS PER MANUFACTURERS RECOMMENDATION, AFTER DUCT CUPPORTS ARE IN PLACE. SEE SPECIFICATIONS FOR FURTHER DETAILS.
- RECTANGULAR 90° ELBOWS ARE REQUIRED AT THESE 5 POINTS TO MINIMIZE THE PROFILE OF THE PROPOSED DUCT BEYOND THE EXISTING PROFILE OF THE BUILDING, AND FOR OTHER DIMENSIONAL SPACING RESTRICTIONS.

KEYPLAN



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**PROPOSED DUCT LAYOUT -
HVAC**

SHEET
M102

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

1.

CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEERS.
2.

DETAILS SHOWN IN ANY SECTION APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE.
3.

CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
4.

ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:

A.

THE FLORIDA BUILDING CODE, (6TH EDITION) 2017.

B.

ASCE 7-10 (WITH ERRATA DATED JANUARY11, 2011) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
5.

THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING WORK. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION SHALL APPLY.

SHOP DRAWINGS:

1.

NO STRUCTURAL DRAWINGS SHALL BE REPRODUCED FOR USE AS SHOP DRAWINGS.
2.

ALL DIMENSIONAL COORDINATION SHALL BE DONE BY THE CONTRACTOR AND/OR HIS DETAILER.
3.

DETAILER SHALL CHECK ALL MECHANICAL DRAWINGS FOR ALL ATTACHMENTS, CLIPS, OPENINGS, OR DUCT WORK AFFECTING STRUCTURAL MEMBERS. ALL ITEMS SHALL BE SHOWN ON SHOP DRAWINGS.
4.

ALL SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT.
5.

COMPLETED ERECTION PLANS SHALL BE SUBMITTED PRIOR TO OR IN CONJUNCTION WITH DETAIL DRAWINGS; BUT IN NO CASE SHALL DETAIL DRAWINGS BE SUBMITTED PRIOR TO ERECTION PLANS.
6.

DETAILER SHALL SUBMIT AN INDEX OF THE DETAIL DRAWINGS WITH EACH SHOP DRAWING SUBMITTAL.
7.

CONTRACTOR SHALL HAVE SHOP DRAWINGS WHICH HAVE BEEN SATISFACTORILY REVIEWED BY THE ARCHITECT AND/OR ENGINEER AND CONFIRMED BY THE CONTRACTOR BEFORE PROCEEDING WITH ANY WORK.
8.

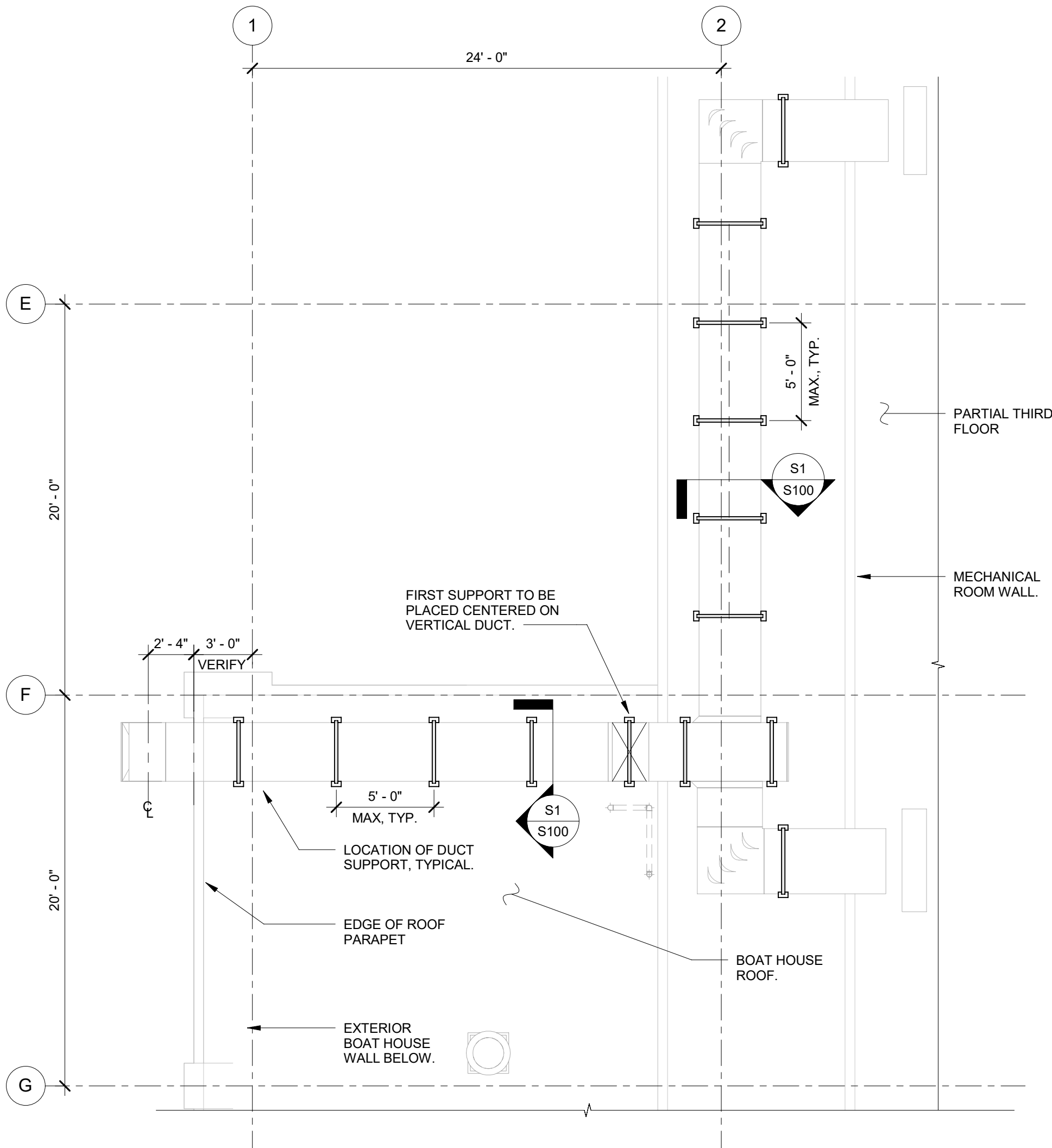
DETAILER SHALL USE THE SAME STRUCTURAL ELEMENTS NUMBERS IN HIS DETAILS AS THOSE SHOWN ON CONTRACT DRAWINGS.
9.

CONTRACTOR TO SUBMIT DETAILS FOR THE REMOVAL OF BUILT-UP INSULATED ROOFING SYSTEM, IN ORDER TO INSTALL SUPPORT FRAMES; AND, FOR THE REPAIRING OF THE ROOFING SYSTEM AFTER SUPPORT FRAMES ARE INSTALLED. SEE SPECIFICATIONS.

WIND DESIGN DATA:

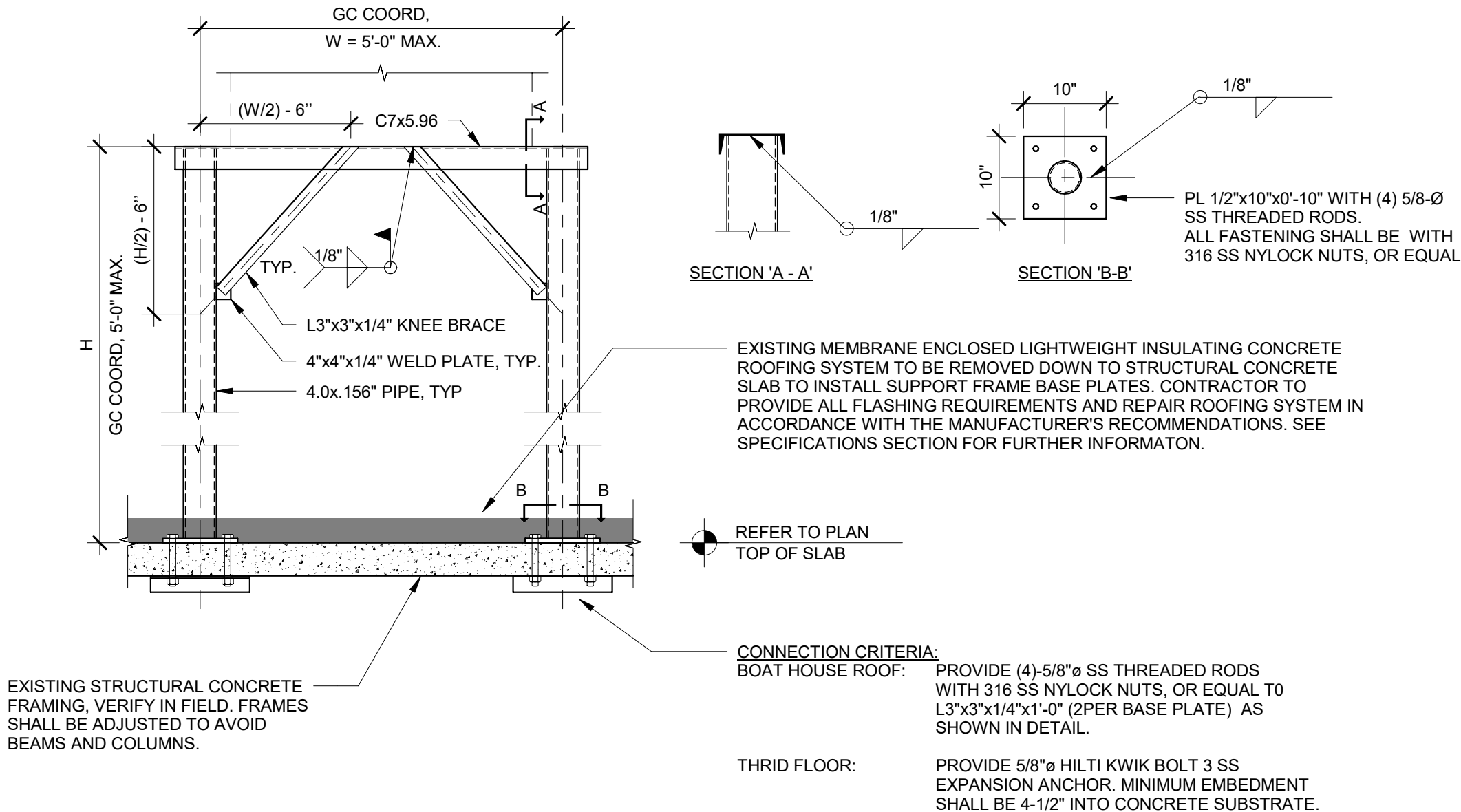
CODE: FLORIDA BUILDING CODE 2017, 6th Ed.
ASCE/SEI 7-10

BASIC WIND SPEED	141 mph (ULT) 109 mph (ASD)
CATEGORY (RISK)	II
EXPOSURE	C
BUILDING HEIGHT	h < 30ft.
DESIGN WIND PRESSURE (PSF)	37.5 -PSF(ULTIMATE) 22.5 -PSF(SERVICE)



EXISTING PARTIAL ROOF PLAN G

SCALE: 3/16" = 1'-0"



S1 - DUCT SUPPORT FRAME h<5'-0"

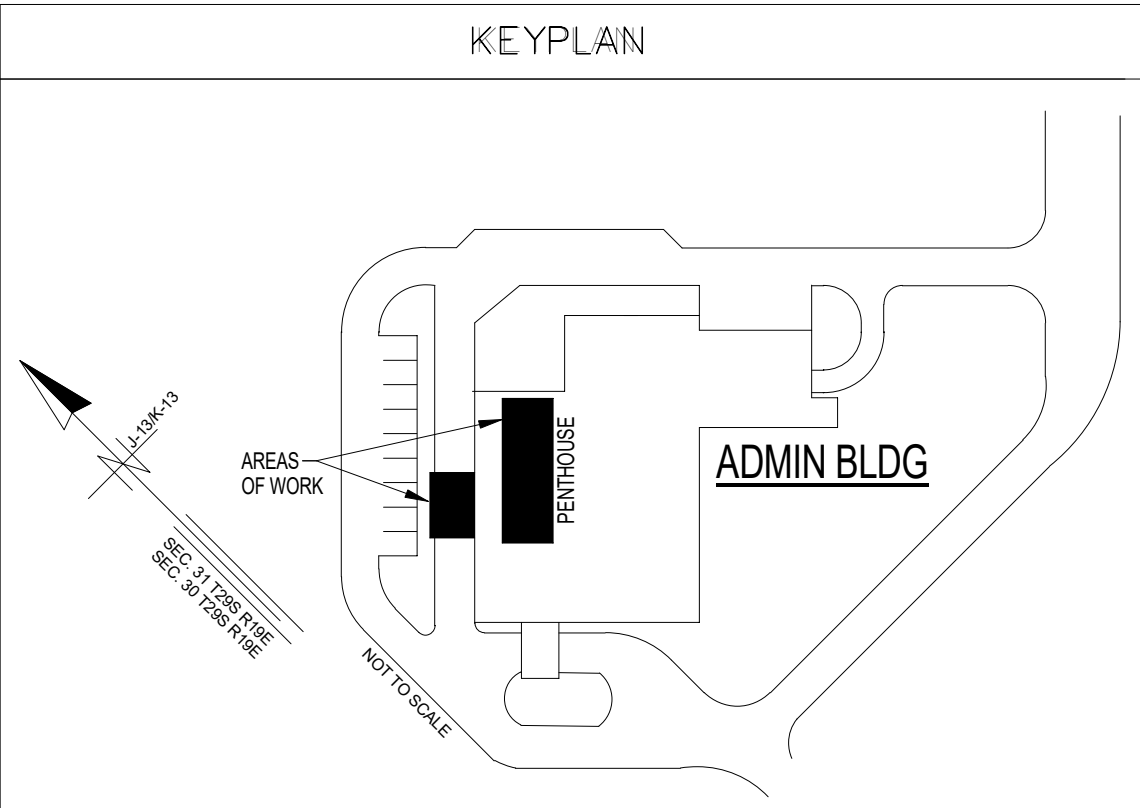
- NOTES
1.

ALL FRAMING TO BE 6061-T6 STEEL TO BE STAINLESS STEEL.
2.

GC TO COORDINATE WIDTH, HEIGHT, AND LOCATIONS BASED ON MECHANICAL REQUIREMENTS AND FIELD CONDITIONS.
3.

PROVIDE STAINLESS STEEL STRAP OVER DUCTWORK TO SUPPORT AS SHOWN IN MECHANICAL DRAWINGS.
4.

FOR FRAME HEIGHT H < 2'-0", DIAGONAL KNEE BRACING NOT REQUIRED.



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DUCT SUPPORT FRAMING

SHEET
S100