



5600 HARBOR STREET, COMMERCE, CA 90040

VICINITY MAP



PROJECT SUMMARY

<u>GENERAL</u>	REPLACE AGING ROOFTOP PACKAGE UNIT AND ADD HVAC TO SERVE THE CURRENT SPECTATOR VIEWING AREA OF THE AQUATICS CENTER
<u>MECHANICAL</u>	REPLACE AN EXISTING 50-TON ROOF TOP UNIT (RTU) PACKAGED, ELECTRIC COOLING, VARIABLE AIR VOLUME (VAV) UNIT. THE NEW RTU SHALL BE 70-TON CAPACITY WITH THE SAME GENERAL ARRANGEMENT SERVING THE SAME AREAS AND FUNCTION AS THE EXISTING UNIT BUT WITH TWO (2) ADDITIONAL VAV ZONES, WITH HOT WATER REHEAT AND DUCT DISTRIBUTION. TWO (2) EXHAUST FANS ARE ADDED TO BALANCE THE SYSTEM.
<u>ELECTRICAL</u>	RECONNECT EXISTING SINGLE SOURCE POWER TO THE NEW RTU. ADD POWER FOR NEW EXHAUST FANS.
<u>STRUCTURAL</u>	NEW ANCHORAGE AND SEISMIC RESTRAINT FOR THE NEW RTU, WHICH HAS THE SAME DIMENSIONS AS EXISTING, BUT LESS WEIGHT. NEW SUPPORT AND ANCHORAGE OF NEW EXHAUST FANS, VAV, DUCTS, ETC.
<u>ARCHITECTURAL</u>	DETAILS FOR PENETRATION OF EXISTING ROOF AND WALLS FOR NEW DUCTS, PIPES, AND SUPPORTS.

GENERAL SEISMIC NOTE

1. SEISMIC BRACING AND ANCHORAGE OF ALL DUCTWORK, PIPING AND CONDUITS SHALL BE PROVIDED IN ACCORDANCE WITH SMACNA GUIDELINES PER ADDENDUM NO.1, ISSUED SEPTEMBER 2000.
2. ALL MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORT AND SEISMIC ANCHORAGE SHALL CONFORM TO C.C.R. TITLE 24, 2016 CBC SECTION 1615A.1.3 AND ASCE 7-05 SECTIONS 13.3, 13.4 & 13.6.

APPLICABLE CODES

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2009 INTERNATIONAL BUILDING CODE VOLUMES 1-3 AND CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2008 NATIONAL ELECTRICAL CODE AND CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2009 UNIFORM MECHANICAL CODE AND CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24 C.C.R.
(2009 UNIFORM PLUMBING CODE AND CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2006 CALIFORNIA ELEVATOR CODE, PART 7, TITLE 24 C.C.R.
2016 CALIFORNIA FIRE CODE PART 9, TITLE 24 C.C.R.
(2008 INTERNATIONAL FIRE CODE AND CALIFORNIA AMENDMENTS)
2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 17A	WET CHEMICAL SYSTEMS	2016 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE MAINS	2016 EDITION
NFPA 72	ALARMING AND FIRE ALARM CODE (CALIFORNIA AMENDED)	2016 EDITION
	(NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2016 EDITION
NFPA 201	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2016 EDITION
REFERENCE	CODE SECTION FOR NFPA STANDARDS—2016 CBC (SFM) CHAPTER 35	

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M-1.10	MECHANICAL SCHEDULES
M-1.20	MECHANICAL TITLE 24-NRCC FORMS
M-1.30	MECHANICAL TITLE 24-NRCC FORMS
M-2.00	MECHANICAL PARTIAL FIRST FLOOR PLAN
M-2.10	MECHANICAL PARTIAL SECOND FLOOR PLAN
M-2.20	MECHANICAL ROOF PLAN
M-3.00	MECHANICAL ENLARGED PLANS & SECTIONS
M-4.00	MECHANICAL CONTROLS
M-4.01	MECHANICAL CONTROLS
M-5.00	MECHANICAL DETAILS
ELECTRICAL	
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E-2.02	ELECTRICAL ROOF PLAN
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S-0.02	GENERAL NOTES
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S-2.04	SECTION
S-2.05	SECTION
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- SIMILAR REQUIREMENTS, AS STATED IN THESE GENERAL NOTES AND DISCIPLINE NOTES, MAY ALSO APPEAR IN THE GENERAL CONDITIONS AND SPECIFICATIONS. SUCH SIMILAR AND CORRESPONDING NOTES IN THE GENERAL CONDITIONS AND SPECIFICATIONS TAKE PRECEDENCE OVER THESE GENERAL NOTES AND DISCIPLINE NOTES. WHEN THESE GENERAL NOTES AND DISCIPLINE NOTES ARE MORE STRINGENT, THEN THEY SHALL PREVAIL.
1. **SCOPE:** THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION, SCAFFOLDING, AND SERVICES NECESSARY FOR COMPLETION OF THE WORK.
2. **CODES AND REGULATIONS:** ALL MATERIALS AND WORK SHALL CONFORM TO THE MOST RECENT ADOPTED EDITIONS OF ALL APPLICABLE CODES AND REGULATIONS. ALL MATERIALS AND WORK SHALL MEET THE APPROVAL OF THE LOCAL JURISDICTION, WHERE THE DRAWINGS AND SPECIFICATIONS INDICATE MORE RESTRICTIVE REQUIREMENTS AND SPECIFICATIONS SHALL GOVERN, BUT NOTHING IN THE DRAWINGS AND SPECIFICATIONS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
3. **PERMITS, LICENSES, AND FEES:** THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, AND FEES.
4. **SYMBOLS AND ABBREVIATIONS:** IF THE CONTRACTOR IS UNSURE OF ANY SYMBOLS OR ABBREVIATIONS ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. **NATURE OF THE DRAWINGS:** FOR THE PURPOSE OF CLARITY AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGNOSTIC. ALTHOUGH THE SIZES AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS, AND VERIFY THIS INFORMATION BEFORE ORDERING, FABRICATING, OR INSTALLING OF ANY MATERIALS.
6. **PRECEDENCE:** WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALLER SCALE DETAILS. SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS.
7. **FIELD VERIFICATION:** ALL EXISTING STRUCTURES, EQUIPMENT, DUCTWORK, PIPING, AND CONDUITS ARE NOT SHOWN IN THESE DRAWINGS. BEFORE BIDDING AND BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL THOROUGHLY EXAMINE AND VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, POINTS OF CONNECTION, SIZES, LOCATIONS, INTERFERENCES, ETC. ALL NECESSARY ADJUSTMENTS REQUIRED TO FACILITATE THE NEW INSTALLATION SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. **DISCREPANCIES:** THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER, IN WRITING, ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS, AND ANY CONFLICTS WITHIN THE CONTRACT DOCUMENTS. THIS SHALL BE DONE PRIOR TO THE START OF CONSTRUCTION IN EACH AREA SO ANY NECESSARY CLARIFICATIONS CAN BE ISSUED.
9. **SUBMITTALS:** THE CONTRACTOR SHALL MAKE SUBMITTALS ON EQUIPMENT AND OTHER ITEMS REQUIRING SUBMITTALS, AND SHALL RECEIVE APPROVALS ON THE SUBMITTALS, PRIOR TO PURCHASE OR INSTALLATION.
10. **COORDINATION:** PRIOR TO FABRICATION AND INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS OR HER WORK WITH ALL OTHER TRADES AND THE GENERAL CONTRACTOR. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT PADS AND CHANGES OF ELEVATIONS OF DUCTWORK, PIPING AND OTHER EQUIPMENT. IT INCLUDES COORDINATING WITH THE ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE EXISTING EQUIPMENT, FIXTURES AND LIGHTING.
11. **WORK SCHEDULING AND INTERRUPTIONS:** THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE OWNER BEFORE BEGINNING WORK IN ANY EXISTING AREA, OR BEFORE WORKING ON ANY EXISTING EQUIPMENT. THE CONTRACTOR SHALL INDICATE TO THE OWNER, THE PARTICULAR AREA IN WHICH WORK WILL BE DONE AND THE PARTICULAR EQUIPMENT TO BE WORKED, ALONG WITH THE DURATION OF TIME SYSTEM WILL BE OUT OF SERVICE. SUCH WORK SHALL BE DONE BY A TECHNICIAN SO AS NOT TO DISRUPT PRESENT OPERATIONS, IF POSSIBLE. FOR INTERRUPTION OF PRESENT OPERATIONS, THE CONTRACTOR SHALL OBTAIN A LETTER OF APPROVAL FROM THE OWNER, CITING AREAS, DATES, HOURS OF THE DAY, AND DURATION INTERRUPTION IS TO TAKE PLACE.
12. **CONSTRUCTION BARRIERS AND PASSAGES:** THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. TEMPORARY PASSAGES SHALL BE PROVIDED AS REQUIRED.
13. **DEMOLITION:** THE CONTRACTOR SHALL DEMOLISH AND REMOVE EXISTING CONSTRUCTION AS NECESSARY TO INSTALL NEW CONSTRUCTION AS SHOWN.
14. **SALVAGE:** THE CONTRACTOR HAS SALVAGE RIGHTS TO ALL DEMOLISHED COMPONENTS AND EQUIPMENT. SALVAGE RIGHTS SHALL BE REFLECTED IN THE BID PROPOSAL. TO THE OWNER BY WAY OF BID COST REDUCTION. THE OWNER DOES NOT WANT ANY DEMOLISHED COMPONENTS OR EQUIPMENT BACK.
15. **WASTE REMOVAL:** REMOVE AND DISPOSE OF, ON A REGULAR BASIS, ALL RUBBISH AND WASTE MATERIALS GENERATED BY THE CONTRACTOR AND ALL SUBCONTRACTORS AND TRADERS. RUBBISH AND WASTE MATERIALS SHALL NOT ACCUMULATE IN THE BUILDING(S) OR ON THE SITE. DISPOSE OF RUBBISH AND WASTE MATERIALS IN ACCORDANCE WITH ALL APPLICABLE ORDINANCES AND REGULATIONS.
16. **PROTECTION, REPAIR, AND RESTORATION OF EXISTING:** THE CONTRACTOR SHALL PROTECT AND REPAIR ADJACENT EXISTING SURFACES, AREAS, PIPING, AND EQUIPMENT WHICH MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK. CONTRACTOR SHALL NOT DEMOLISH OR ALTER ANY WORK WHICH IS NOT PART OF THIS CONTRACT WITHOUT WRITTEN PERMISSION OF THE OWNER.
17. **PROTECTION AND REPAIR OF NEW WORK:** THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS BEFORE, DURING AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
18. **MATERIALS:** ALL MATERIAL, EQUIPMENT, FIXTURES, ETC. SHALL BE NEW, UNLESS OTHERWISE NOTED, AND OF THE BEST GRADE OF THE RESPECTIVE KIND, FREE FROM ALL DEFECTS. ANY MATERIAL, ARTICLE OR PIECE OF EQUIPMENT OTHER THAN THAT INDICATED SHALL NOT BE USED UNLESS APPROVED IN WRITING BY THE ENGINEER, AND ANY CHANGES IN MECHANICAL, ELECTRICAL AND/OR OTHER SYSTEMS REQUIRED DUE TO SUCH SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND AT NO ADDITIONAL COST TO THE OWNER.
19. **SEISMIC ANCHORAGE:** THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.E.R. TITLE 24, 2016 CBC SECTION 1614.1.13 AND ASCE 7-05. SECTION 13.2, 13.4, 13.6 AND CHAPTER 6. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.
20. **MATERIALS UNIFORMITY:** MATERIALS FOR SIMILAR USE SHALL BE OF THE SAME TYPE AND MANUFACTURER, UNLESS OTHERWISE SPECIFIED.
21. **SEALING OF OPENINGS:** ALL FLOOR, WALL, AND CEILING OPENINGS REQUIRED FOR PIPES, DUCTS, CONDUITS, AND SIMILAR ITEMS SHALL BE SEALED; UNLESS OTHERWISE PROTECTED WITH A TWO-HOUR FIRE RESISTIVE ENCLOSURE (ONE-HOUR FOR ONE-HOUR BUILDINGS).
22. **STRUCTURAL MEMBERS:** UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NOTCH, EITHER DRILLED OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
23. **WIRING: RESPONSIBILITY DISTINCTION:** THE GENERAL CONTRACTOR SHALL SUPERVISE THE FOLLOWING WIRING RESPONSIBILITY DISTINCTION. CONTROL LOW VOLTAGE WIRING, CONDUIT & CONNECTION SHALL BE BY MECHANICAL CONTRACTOR. LINE VOLTAGE WIRING, CONDUIT, DISCONNECT SWITCHES, AND CONNECTION SHALL BE BY ELECTRICAL CONTRACTOR.
24. **MANUFACTURER'S INSTALLATION RECOMMENDATIONS:** ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, OFFSETS, TRANSITIONS, DAMPERS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
25. **TESTING AND OPERATION:** THE CONTRACTOR SHALL TEST, ADJUST, AND PLACE IN PROPER OPERATING CONDITION ALL SYSTEMS INSTALLED UNDER THE WORK OF THIS CONTRACT.
26. **OPERATION AND MAINTENANCE MANUALS:** THE CONTRACTOR SHALL SUBMIT FOUR SETS OF OPERATING AND MAINTENANCE MANUALS TO THE OWNER UPON COMPLETION OF THE PROJECT.
27. **AS-BUILT DRAWINGS:** THE CONTRACTOR SHALL MAINTAIN ACCURATE AS-BUILT DRAWINGS DURING CONSTRUCTION AND SHALL SUBMIT THEM FOR APPROVAL UPON COMPLETION OF INSTALLATION.
28. **WARRANTY:** IN ADDITION TO EQUIPMENT WARRANTIES, THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE YEAR AFTER OWNER'S ACCEPTANCE OF THE PROJECT. THE WARRANTY SHALL INCLUDE LABOR AND MATERIALS FOR REPAIR OF DAMAGE TO, OR REPLACEMENT OF, ANY PART OF DEFECTIVE OR DAMAGED EQUIPMENT OR ITEM.
29. **DEMOLITION, CONSTRUCTION OR ALTERATIONS SHALL BE IN COMPLIANCE OF 2007 CFC, ARTICLE 87.**
30. **PROVIDING SUPPORTS:** PROVIDE AND INSTALL ALL NECESSARY BACKING, BLOCKING, FRAMING, HANGERS OR OTHER SUPPORT REQUIRED FOR THE INSTALLATION OF FIXTURES, EQUIPMENT, CABINETS, FURNISHINGS, AND ALL OTHER ITEMS REQUIRED THE SAME. COORDINATE THE SIZE, LOCATION, AND INSTALLATION OF BACKING, BLOCKING, FRAMING, HANGERS, AND OTHER SUPPORT AMONG THE RESPECTIVE SUBCONTRACTORS AND TRADES.
31. **FIRE DEPARTMENT VEHICLE ACCESS:** FIRE DEPARTMENT VEHICLE ACCESS SHALL BE PROVIDED AND MAINTAINED SERVICEABLE TO ALL BUILDINGS ON THE SITE AND THROUGHOUT THE ENTIRE SITE DURING THE ENTIRE TIME OF CONSTRUCTION.
32. **CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CHANGE ORDERS APPROVED BY THE OWNER.**
33. **ANY SUBSTITUTION BY THE CONTRACTOR OVER THE BASIS OF DESIGN INDICATES THAT THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REDESIGN AND CONFIGURATION OF EQUIPMENT, DUCTS, PIPES, CONDUITS, WIRING AND INSTALLATION. SUBMIT SUBSTITUTION REQUEST FORM PRIOR TO BIDDING FOR APPROVAL.**
34. **THESE CONTRACT DOCUMENTS ARE NOT COMPLETE WITHOUT DIVISION 00 AND DIVISION 01 SPECIFICATIONS. THE CONTRACTOR SHALL REQUEST EDITED DIVISION 00 AND DIVISION 01 SPECIFICATION SECTIONS FROM OWNER'S REPRESENTATIVE, PRIOR TO BIDDING, IF THEY ARE NOT CURRENTLY PROVIDED.**
35. **DISCREPANCIES:** CONTRACTOR SHALL BE TASKED TO NOTIFY AND SEEK CLARIFICATIONS FROM THE OWNER'S REPRESENTATIVE OF DISCREPANCIES WITHIN BID DOCUMENTS, PRIOR TO SUBMITTING BIDS

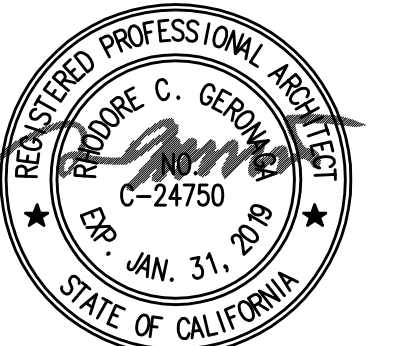


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TITLE SHEET

HOA PROJECT NO.: 0817.2117.01	PROJECT ARCH: R.H.
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T-1.00

DATE:	SHEET:	OF:
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PROJECT TITLE AND LOCATION
**BRENDA VILLA
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SHEET TITLE:

SITE MAP

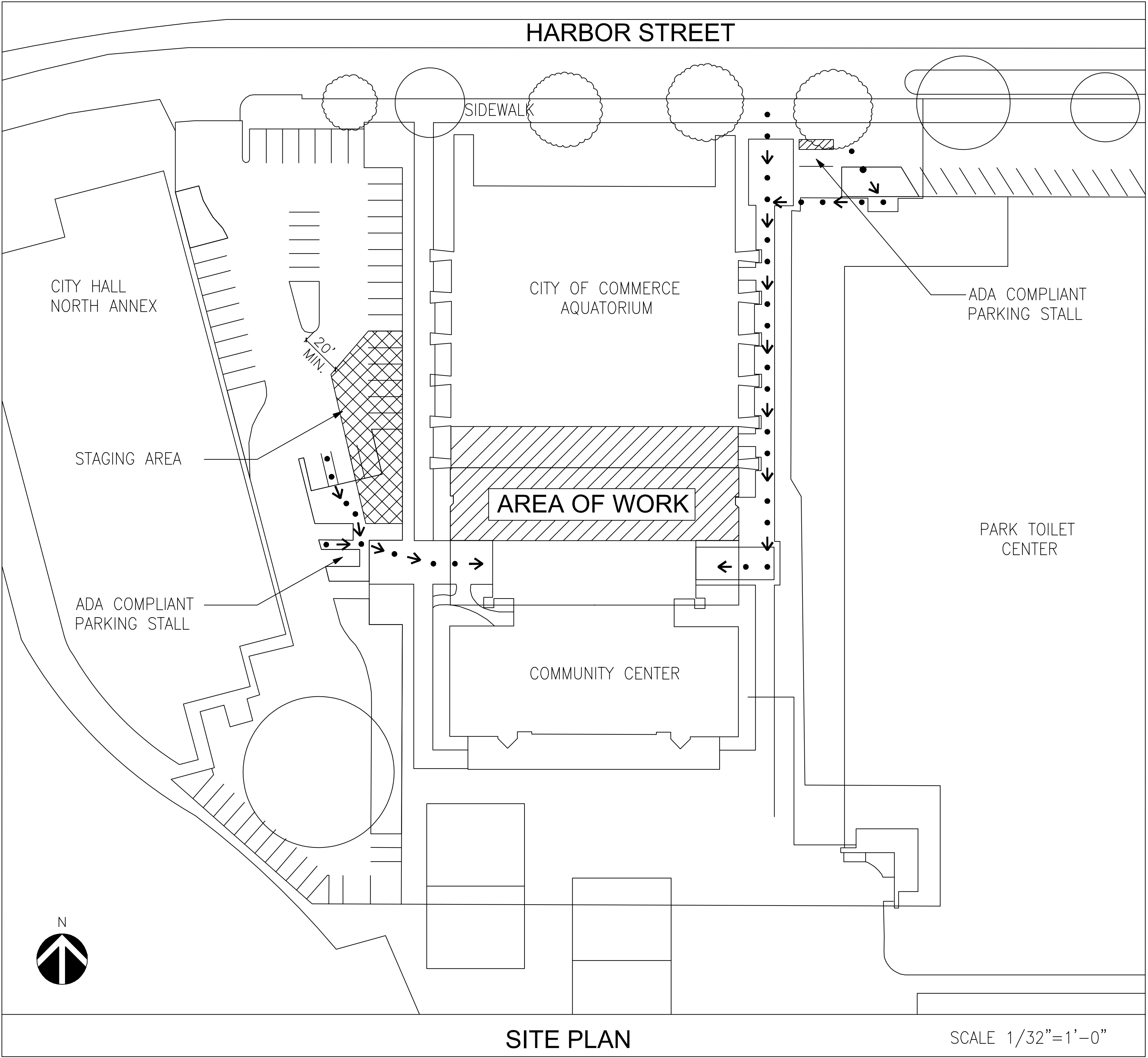
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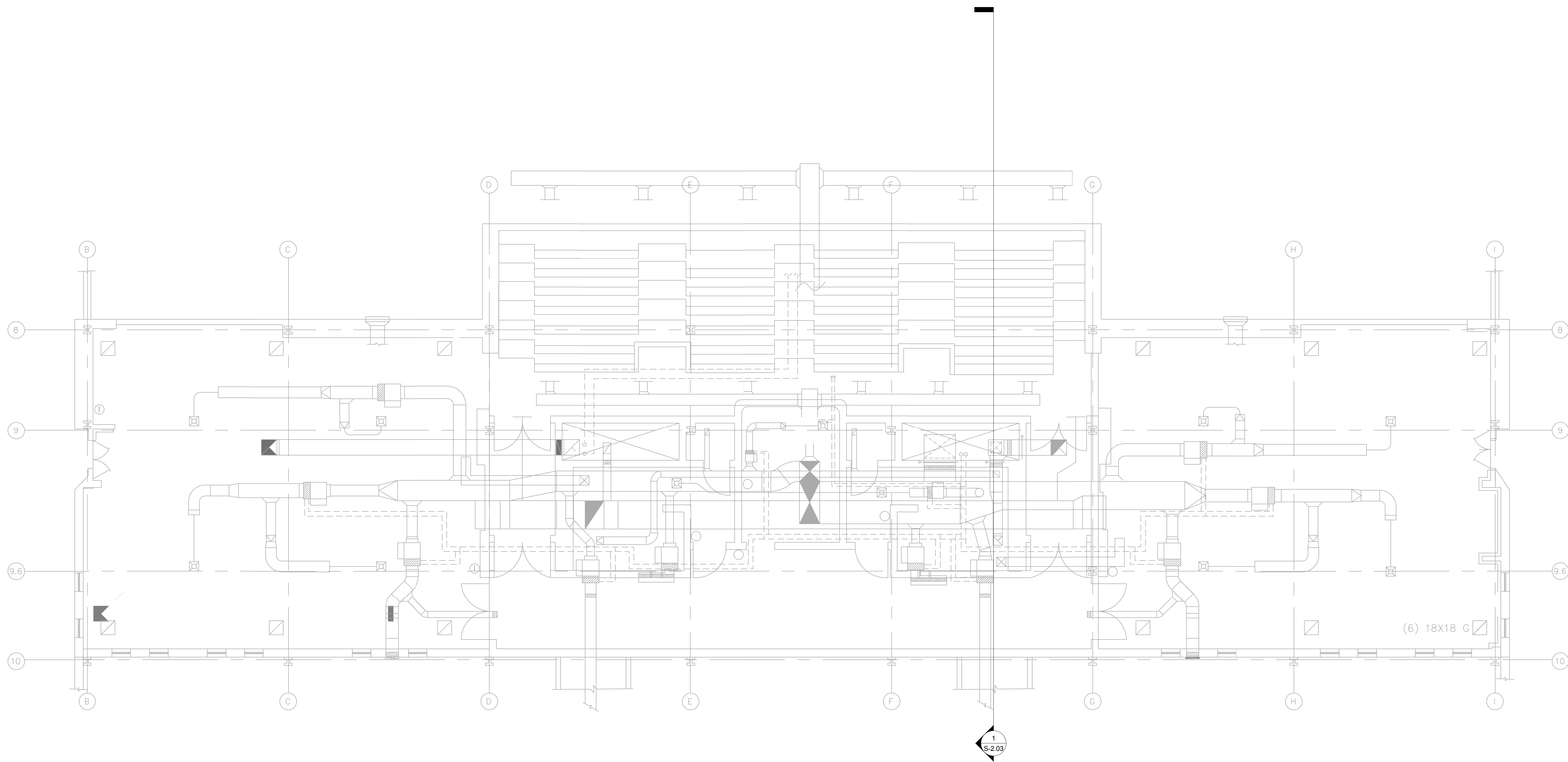
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G-1.00

DATE: SHEET: OF:





1 2ND FLOOR
Scale: 3/16" = 1'-0" Ref.



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SHEET TITLE:

**SECOND
FLOOR PLAN**

HDA PROJECT NO.: 0817.2117.01	PROJECT ARCH: R.H.
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S-1.01

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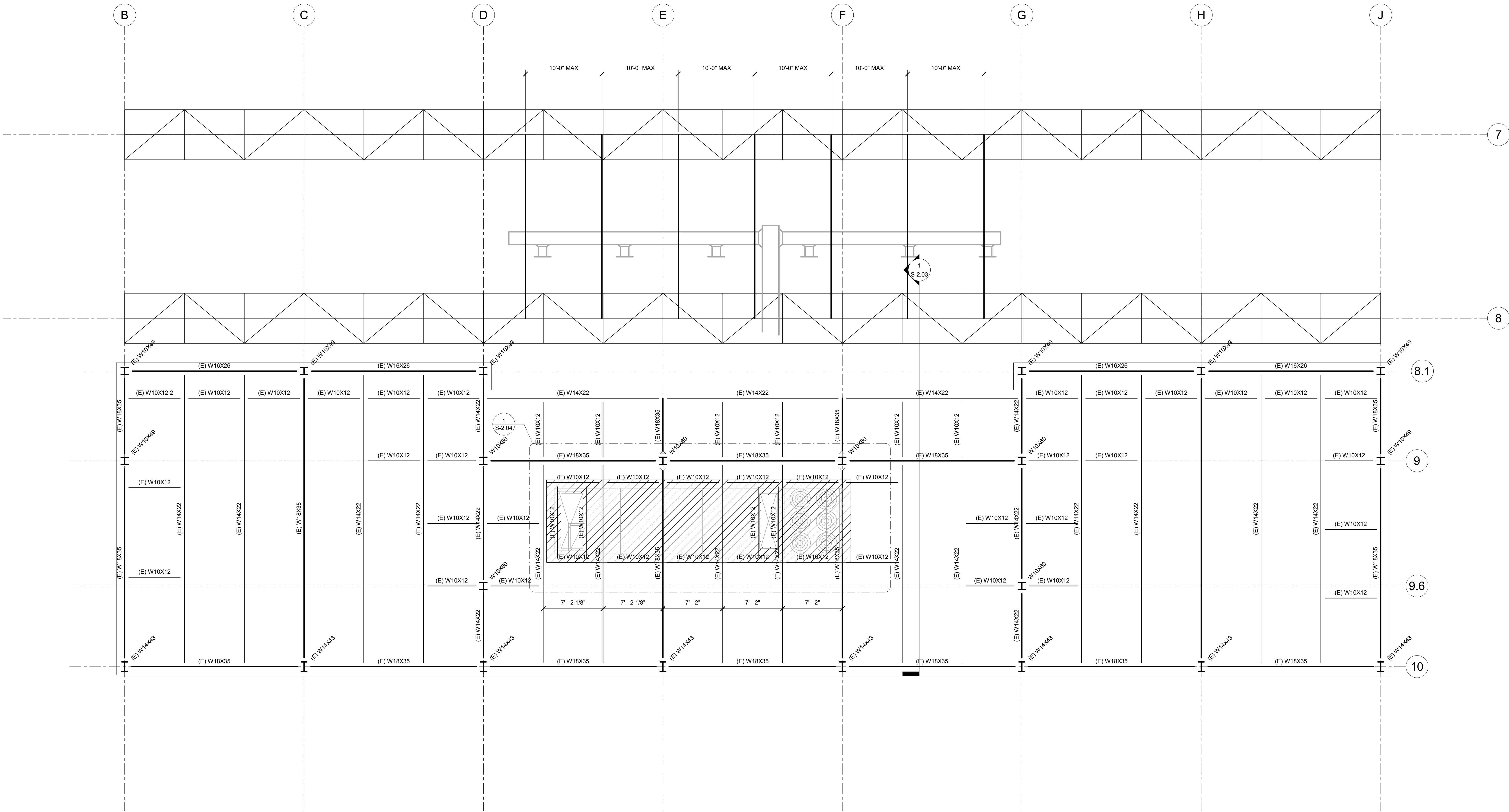
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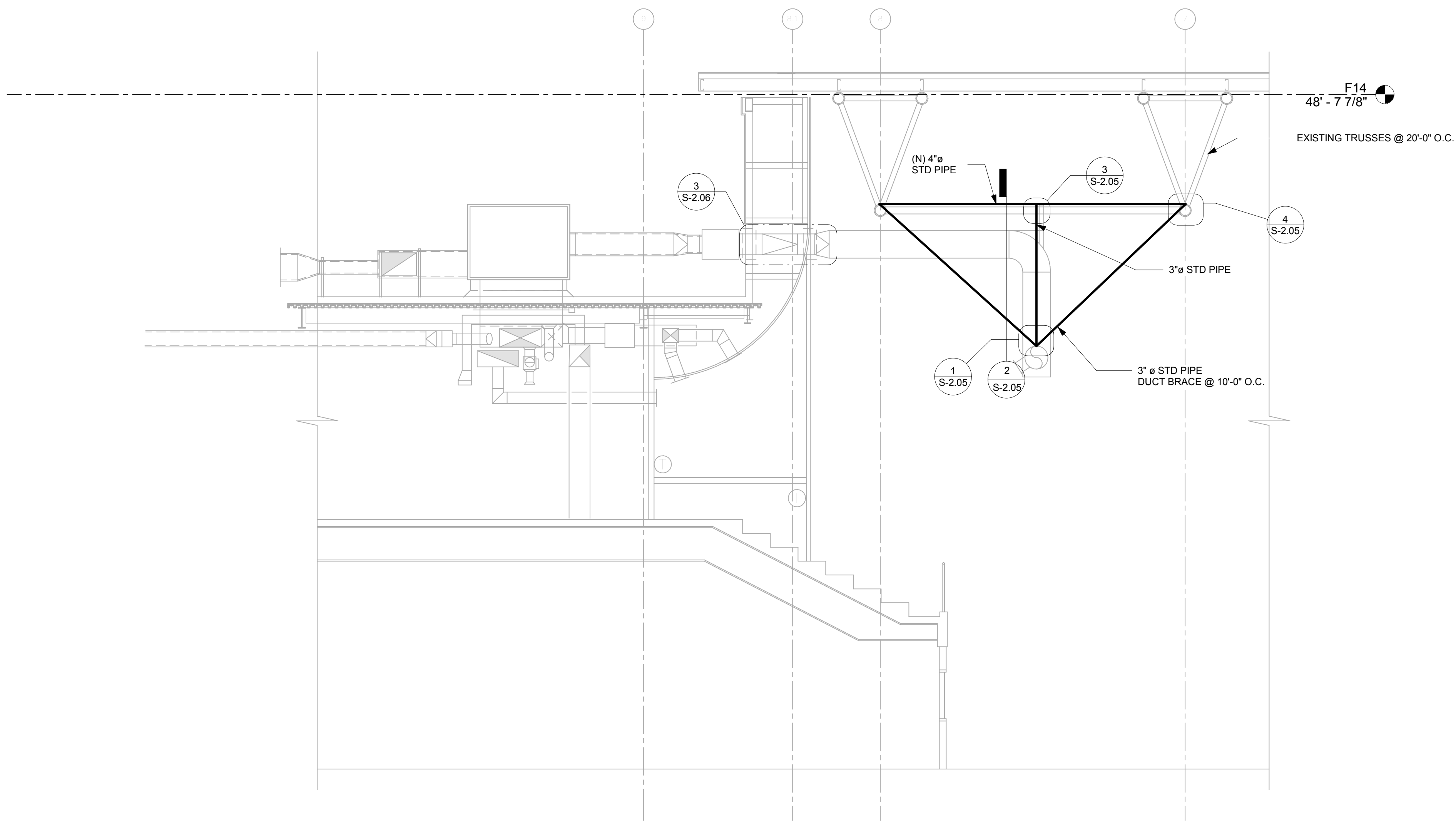
ROOF PLAN

HDA PROJECT NO.: 0817.2117.01	PROJECT ARCH: R.H.
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S-1.02



1 ROOF
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1 Section 2
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PROJECT TITLE AND LOCATION

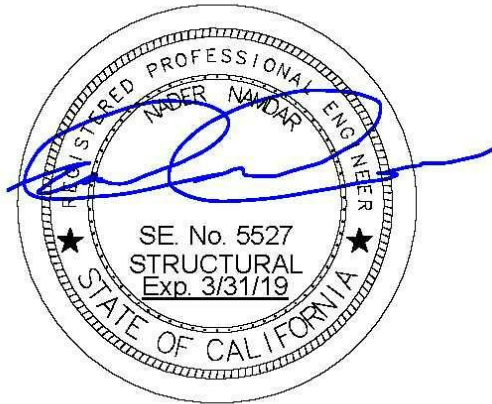
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SECTION

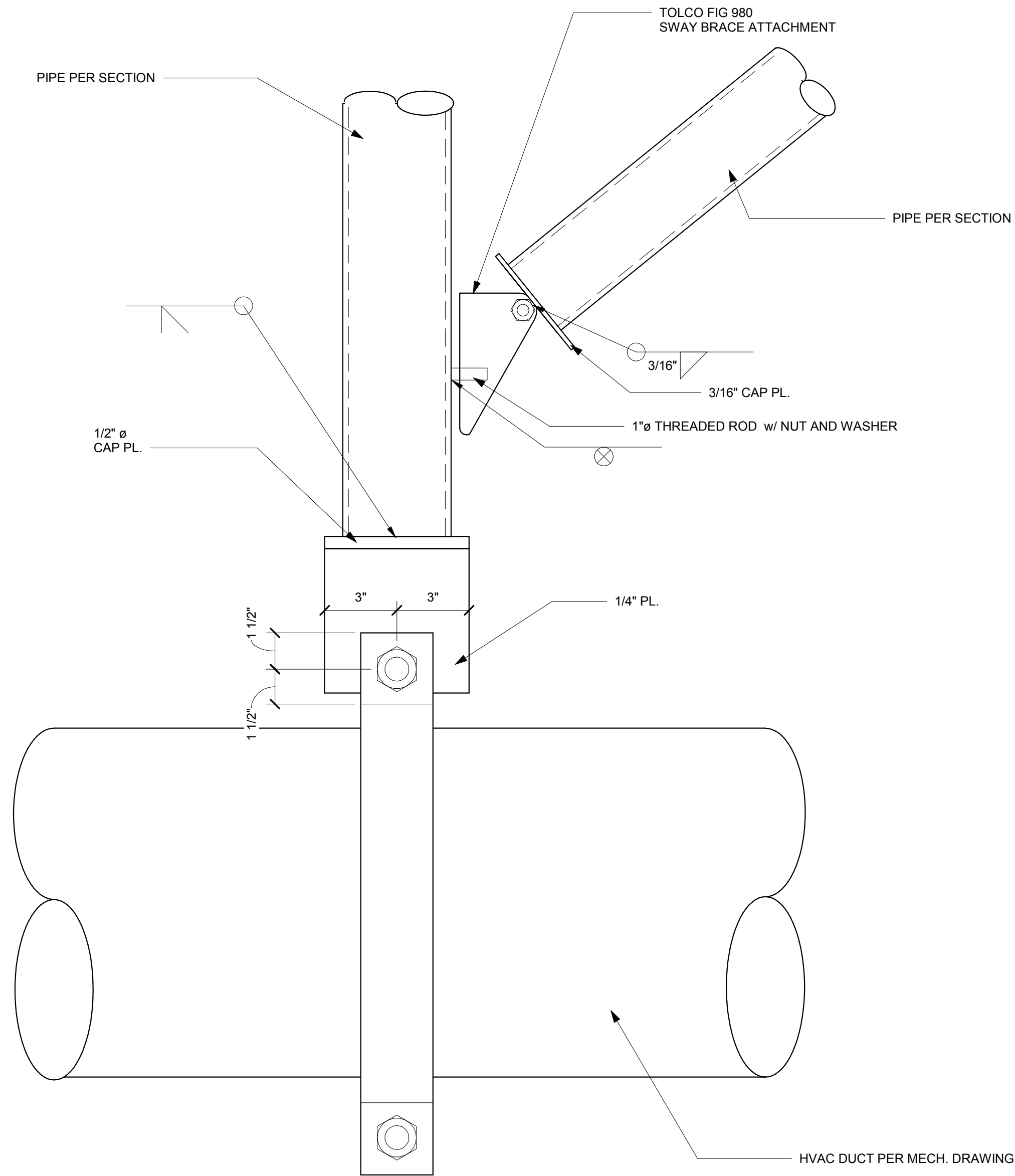
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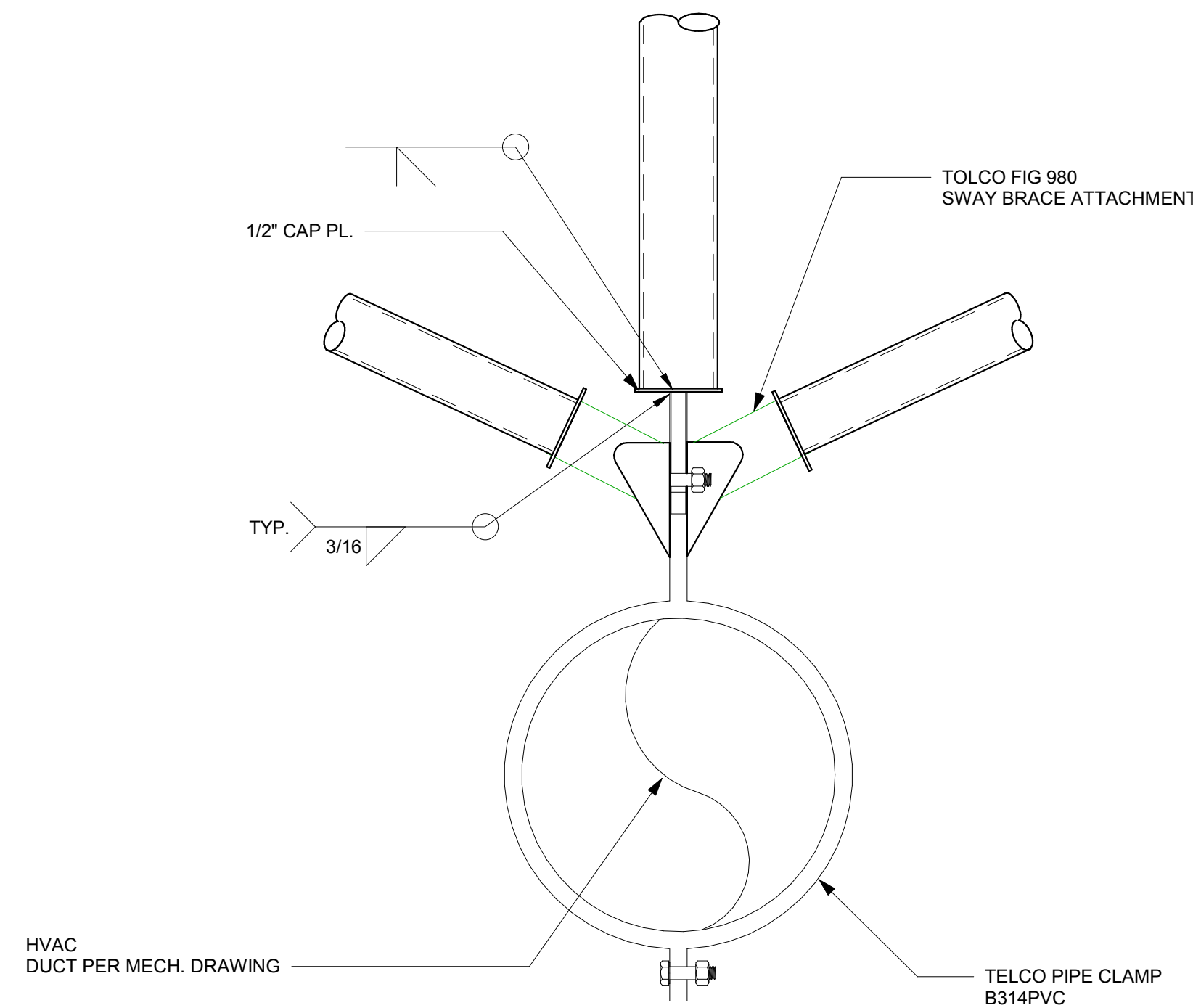
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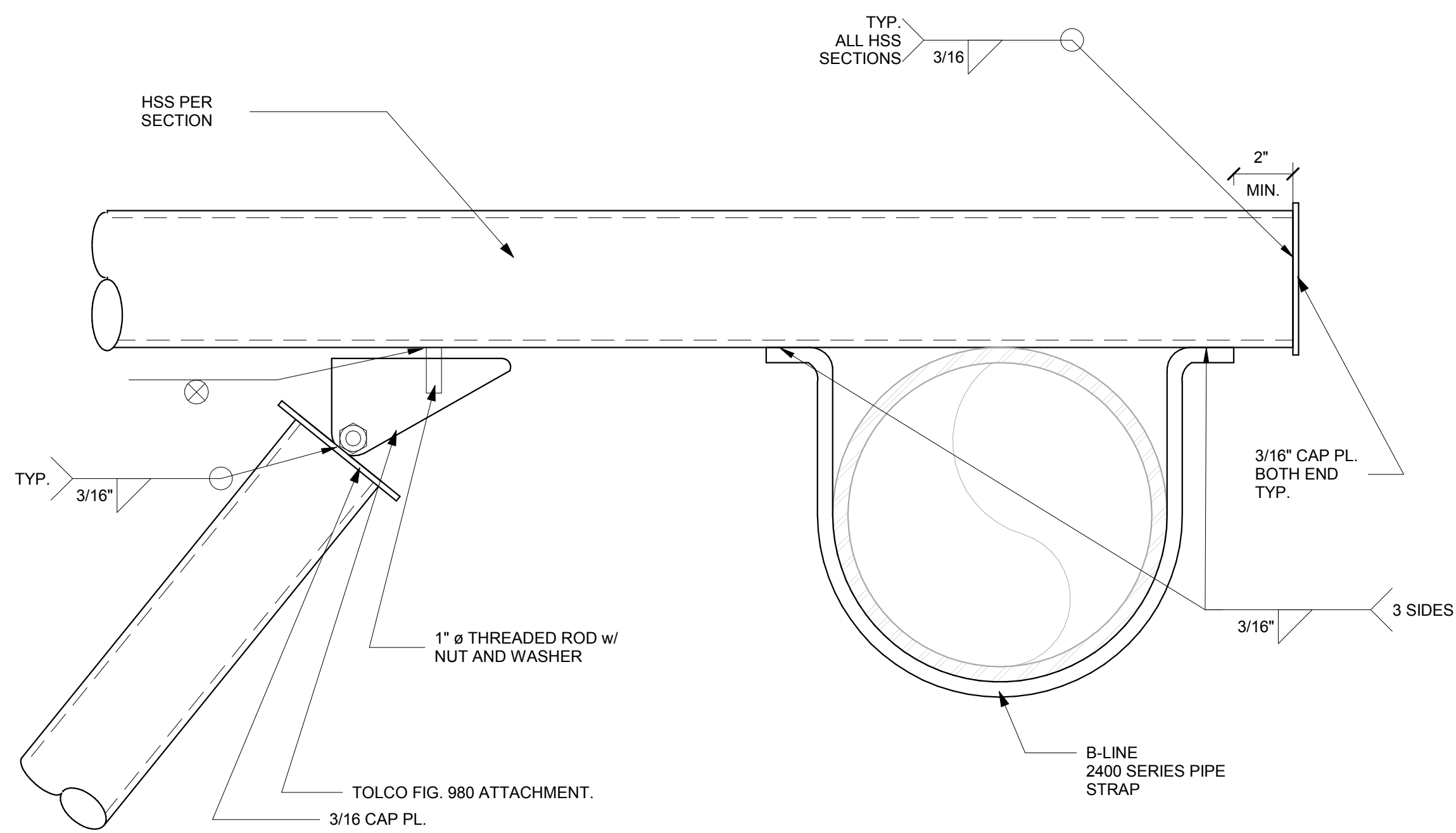
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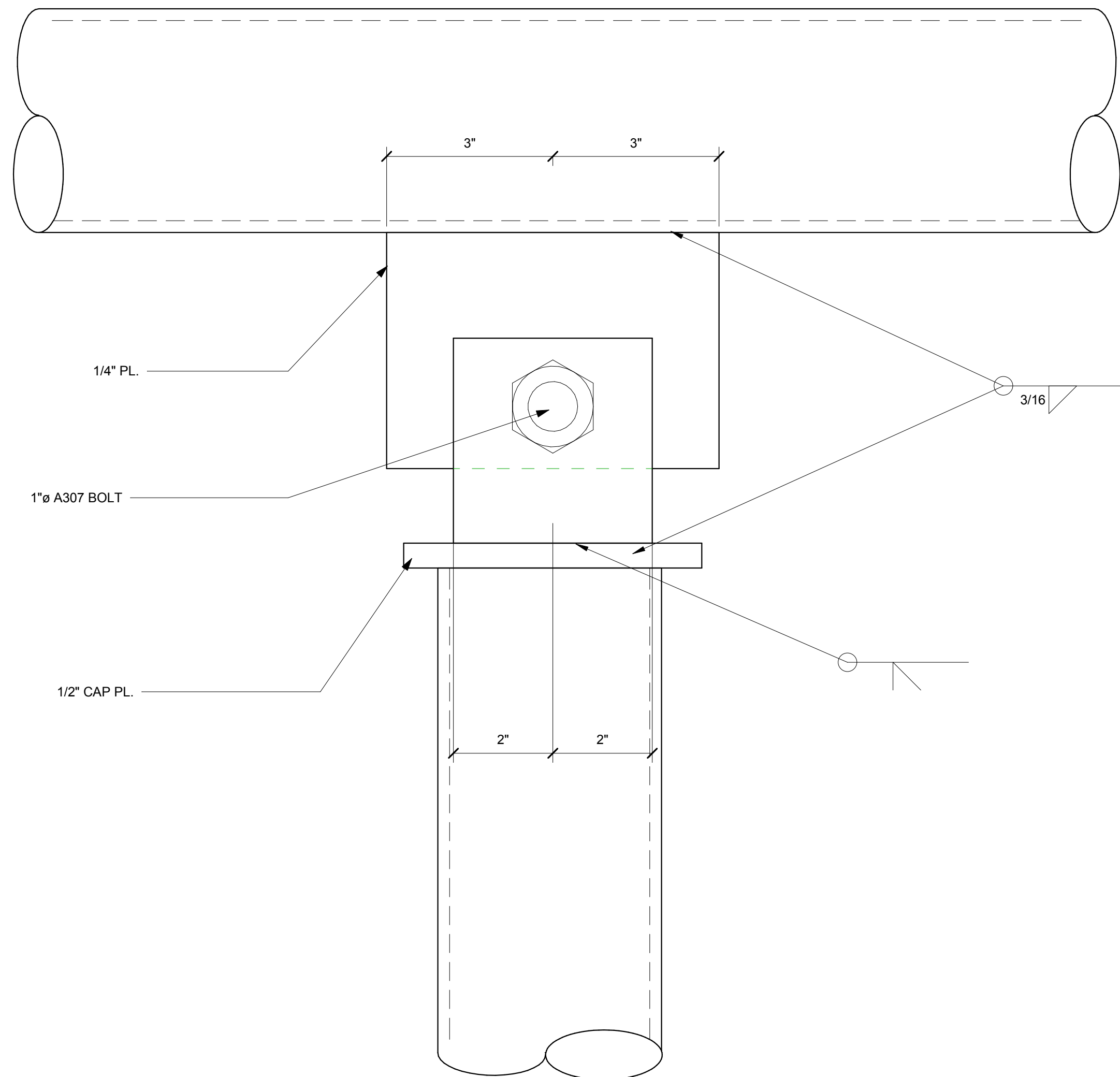
3 DUCT / SUPPORT
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1 DUCT/BRACE DTL
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4 BRACE/SUPPORT
Scale: 3" = 1'-0" Ref: S-2.03



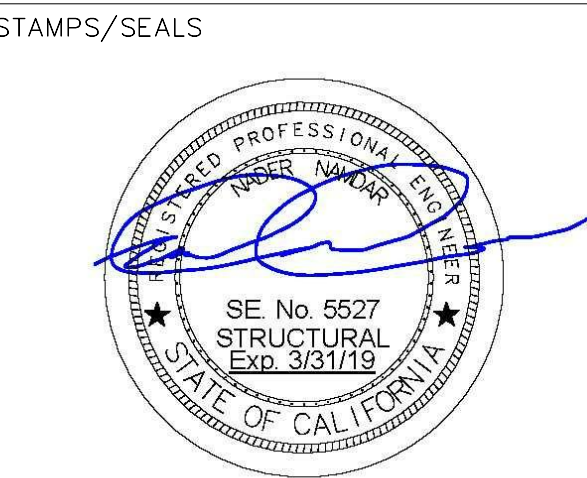
2 PIPE TO VERT. / BRACE DESIGN
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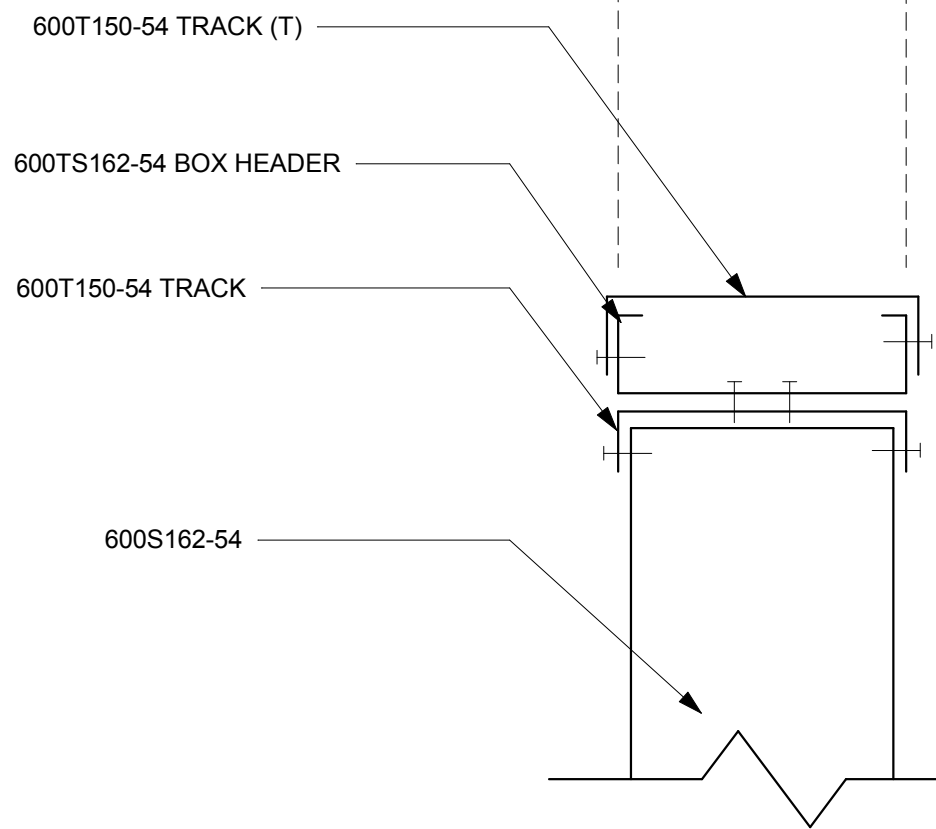
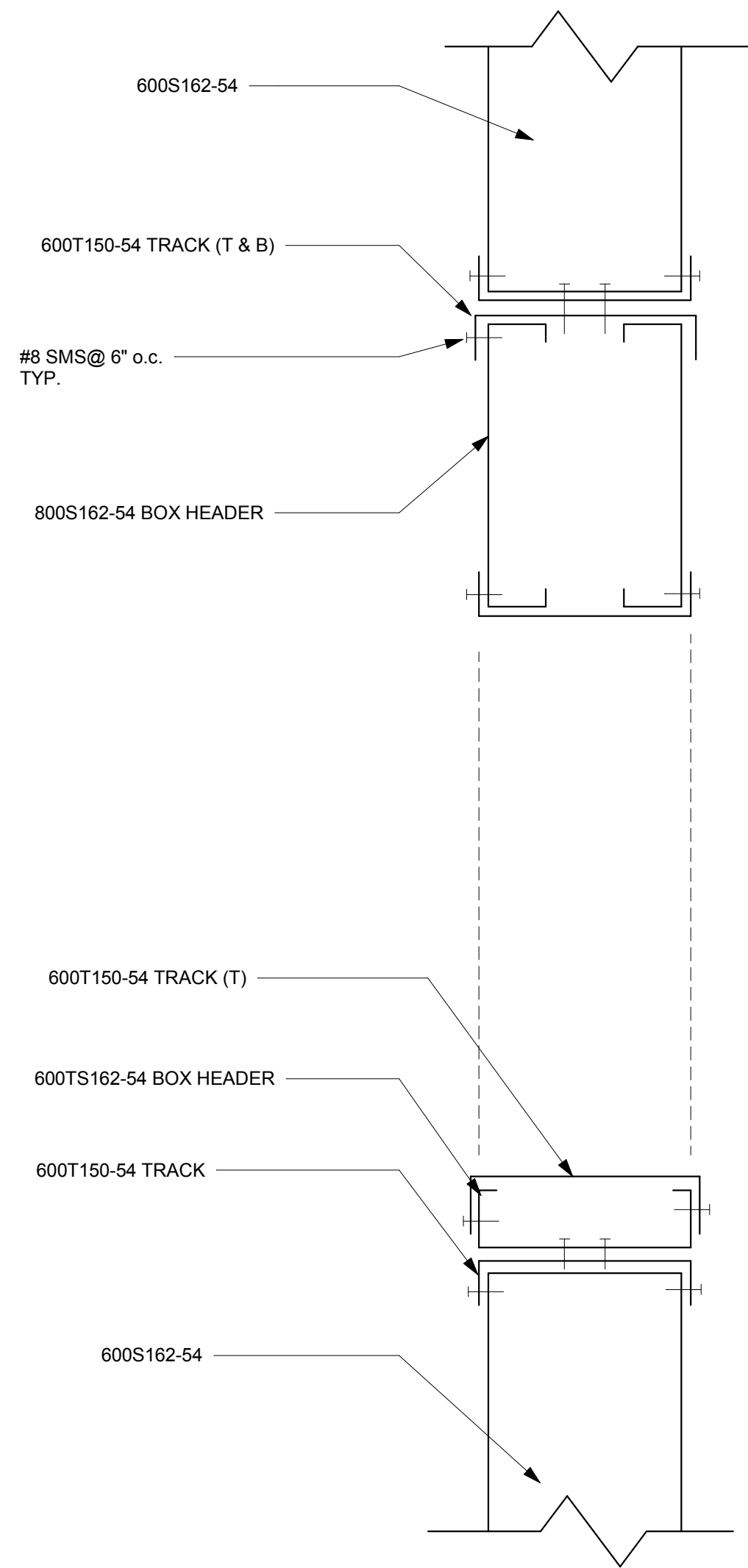
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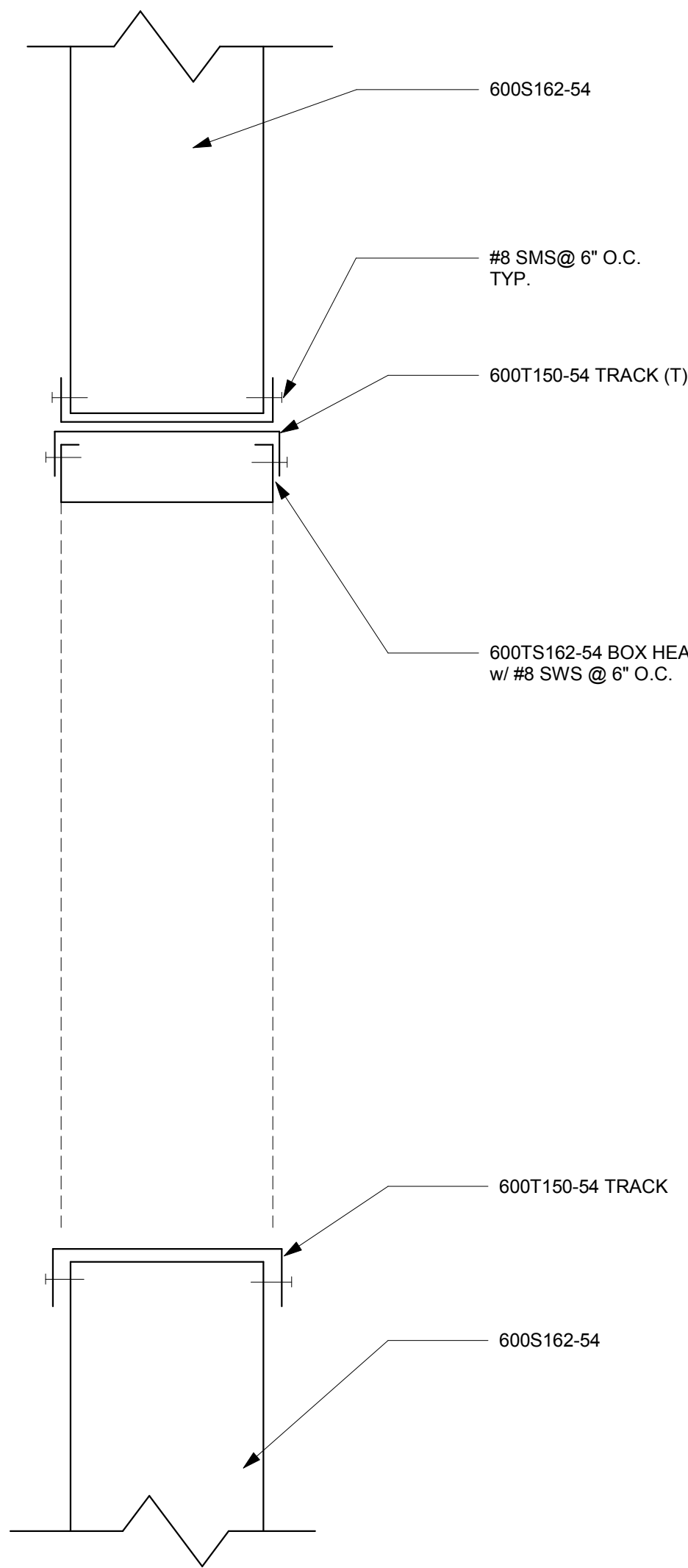
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3

SECTIONS

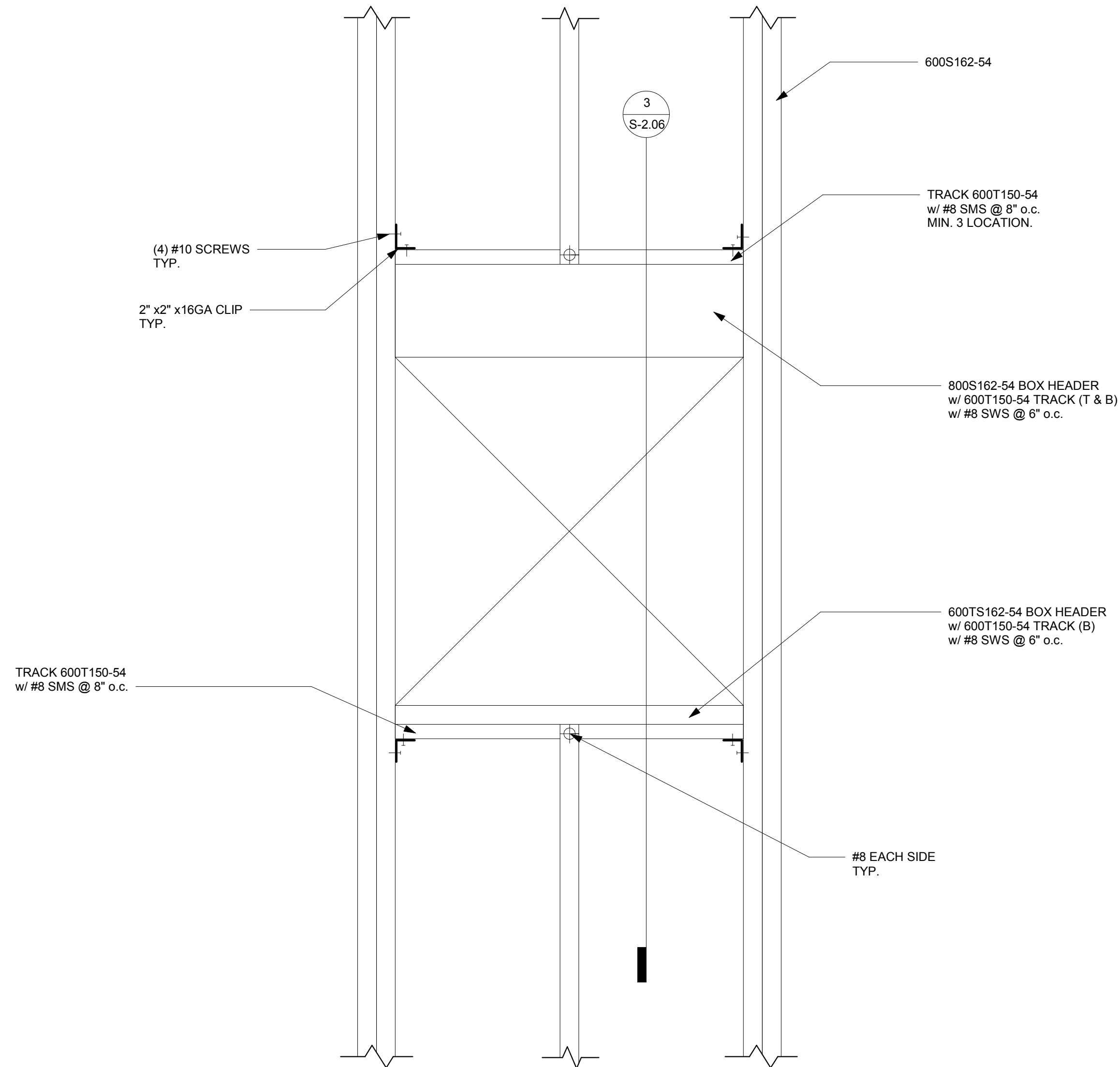
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2

INTERIOR WALL

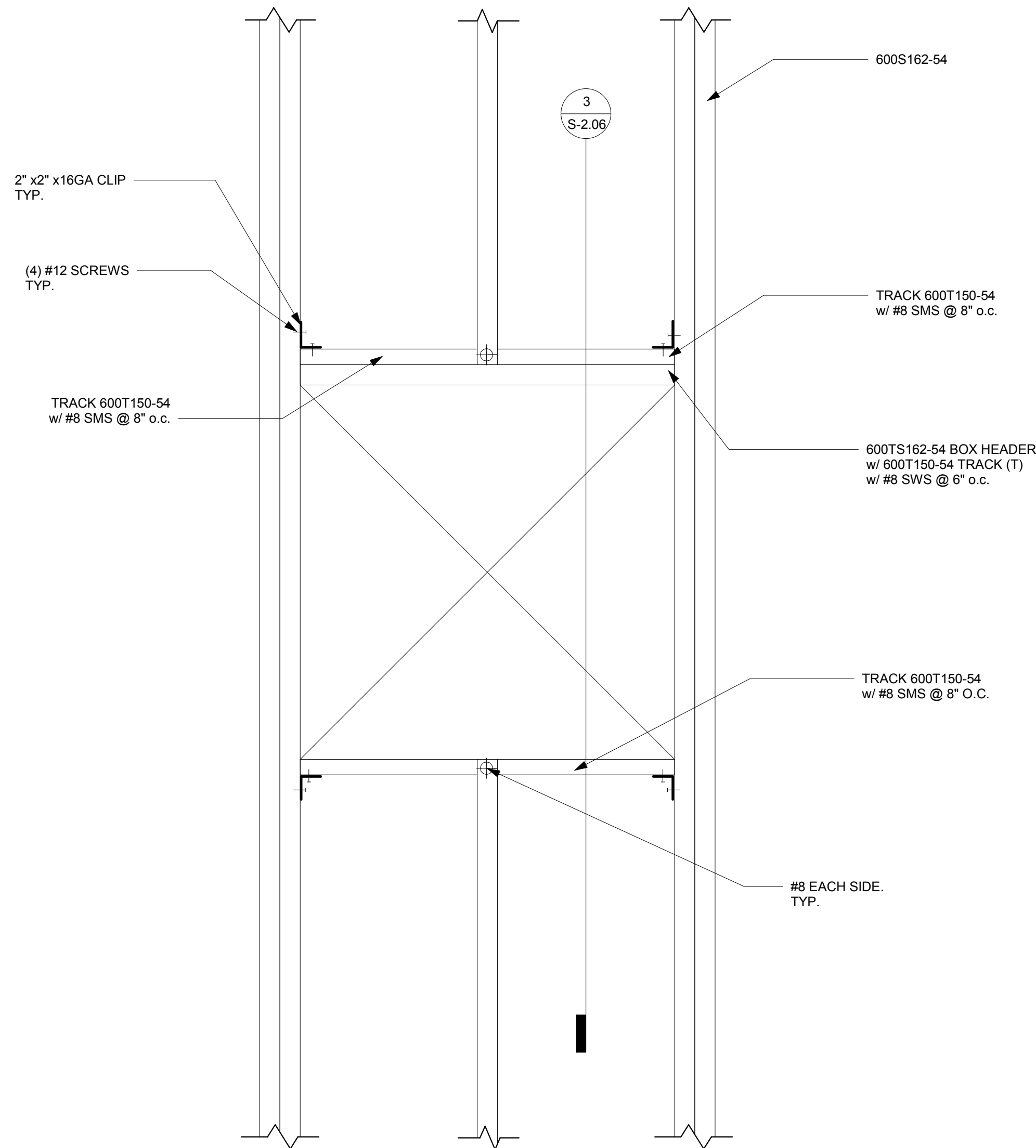
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1

EXTERIOR WALL

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DETAILS

HDA PROJECT NO.: 0817.2117.01 PROJECT ARCH: R.H.
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SHEET NUMBER

S-2.06

DATE:

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OF: