

Addendum No. 3

04/16/2019

To all bidders for furnishing all labor and materials necessary and required for constructing:

Harder Elementary School
495 Wyeth Rd
Hayward, California
DSA #01-119934

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated 04/03/2016. Acknowledge all addenda in the space provided on the Bid Form; failure to do so will result in disqualification of the bidder.

REVISIONS TO SPECIFICATIONS:**Increment 1**

1. Specification Section 01 11 00 Summary of Work – Part 1.6 Work by Owner
 - a. **Modify** Part 1.6 A Work by Owner :
“1.6 WORK BY OWNER
A. Owner will not award a separate contract for abatement of asbestos containing materials, and lead-based paint, and PCB in the existing buildings. Contractor shall refer to documents prepared by District consultant, Vista Environmental Consulting. All hazardous materials remediation and abatement of the existing Harder campus shall be included as part of this contract.
2. Specification Section 01 11 00 Summary of Work – Part 1.9 Hazardous Material (Hazmat) - Requirements
 - a. **Remove** Part 1.9: Hazardous Material (Hazmat) - Requirements

Increment 2

1. Specification Section 07 44 00 Fiber Cement Panel System
 - a. **Remove** Specification Section in its entirety.
2. Specification Section 07 46 46 Fiber Cement Sidings
 - a. **Add** Specification Section in its entirety.

Increment 3

1. Specification Section 05 50 00 Metal Fabrications – Part 2.2 Railing Assemblies
 - b. **Modify** Part 2.2 Railing Assemblies with the following:
“2.2 RAILING ASSEMBLIES
A. Steel Railing Assemblies: Fabricated from steel pipe, steel plates and sections; sizes as shown on Drawings. At exterior locations, hot-dip galvanize all components in accordance with ASTM A123/A123M, minimum 1.25 ounces per square foot.
 1. Steel Pipe: ASTM A53/A53M, Grade A, Schedule 40.
 2. **Infill panels at Stairs 2 and 3: 14-gauge galvanized steel with 3/4 inch diameter holes staggered at 1 inch centers; 51 percent open as manufactured by McNichols or accepted equal.**
 3. Handrail Wall Brackets: Steel, as indicated on Drawings.
 4. Finish: Paint finish under provisions of Section 09 91 00.
2. Specification Section 07 41 16 Metal Wall Panels
 - c. **Remove** Specification Section in its entirety.
3. Specification Section 08 71 00 Door Hardware
 - a. **Remove** Duplicate Specification Section, pages 537-581 in its entirety.

REVISIONS TO DRAWINGS:

General:

Increment 2

1. G-001 Cover Sheet
 - a. **Replace** this sheet in its entirety. Updated Project Directory.

Civil:

Increment 1

1. 1CE101 Existing Conditions
 - a. **Replace** this sheet in its entirety.
2. 1CU104 Utility Plan
 - a. **Replace** this sheet in its entirety.

Architectural:

Increment 3

1. 3.B.A-422 Building B Stair 2 & Elevator Plans & Sections
 - a. **Replace** this sheet in its entirety.
2. 3.B.A-423 Building B Stair 1 Details
 - a. **Replace** this sheet in its entirety.
3. 3.B.A-424 Building B Stair 2 Details
 - a. **Replace** this sheet in its entirety.

PRE BID INQUIRIES:

1. **PBI#01:** The blow up at the bottom of sheet 1CU104 doesn't include main sizes. What size did you want to use on the Storm, Sewer, and Fire Water coming off the main?
 - a. **Response:** See replacement sheet 1CU104
2. **PBI#02:** Sheet 1CE101 does not include existing elevations, however, note 1 references a Topographic survey dated march 25, 2016. Please provide that report.
 - a. **Response:** See replacement sheet 1CU101. Included topographic survey.
3. **PBI#03 Regarding District provided Hazardous Material Drawings and Specifications:** In the Hazardous Materials specifications, for class room wing 9-15the hazardous material summary includes 7,750 sf of plaster to be removed. On the Hazmat drawing , HM-CRW-1, the material is not included in the sheet notes. Please provide the correct amount of material to be removed.
 - a. **Response provided by the District's Consultant, Vista Environmental Consulting:** In both the Hazardous Materials Drawings and Specifications there is no acoustic plaster in Classroom 9-15 identified as asbestos-containing. This material was identified in the Administration/MPR building. In our hazardous materials survey report we identified asbestos in the acoustic plaster of 9-15. All 7 samples taken from the wing were ND, however we took the more conservative approach thinking these two buildings could have been one and the material looked similar. For the design we made another site visit and after conversations with our CIH, determined that the buildings and materials were different and could be declared ND based on the 7 samples taken from 9-15. ~~It should be noted that the quantities listed in the survey report are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.~~

END OF ADDENDUM



HAYWARD UNIFIED SCHOOL DISTRICT

HARDER ELEMENTARY SCHOOL

495 WYETH ROAD
HAYWARD, CA 94544

CAMPUS REPLACEMENT
INCREMENT 2

NON DSA APPROVED BID SET

APRIL 01, 2019

LIONAKIS

1919 Nineteenth Street
Sacramento CA 95811
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www.lionakis.com

CONSULTANT

ARCHITECTURAL SYMBOLS LEGEND

DETAIL INDICATOR - REFERENCE & DETAIL INDICATOR - ITEM

DETAIL INDICATOR - SECTION & DETAIL INDICATOR - SECTION ITEM

SECTION INDICATOR - PARTIAL BUILDING WALL & DETAIL INDICATOR - AREA

SECTION INDICATOR - BUILDING

ELEVATION INDICATOR - EXTERIOR

ELEVATION INDICATOR - INTERIOR, SINGLE & MULTIPLE VIEW

MATCH LINE
SEE XX / X-XXX

REFERENCE GRID WITH REFERENCE GRID LINES

REVISION INDICATOR & REVISION CLOUD

ROOM IDENTIFIER WITH ROOM NAME & NUMBER

ELEVATION INDICATOR - LEVEL & SPOT

WINDOW OR LOUVER IDENTIFIER

KEYNOTE INDICATOR

PLAN NORTH & TRUE NORTH INDICATOR

LIST OF ARCHITECTURAL ABBREVIATIONS

SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABBREVIATIONS NOT LISTED BELOW.	DF DRINKING FOUNTAIN	LAV LAVATORY
DETENTION HOLLOW METAL	DHM DETENTION HOLLOW METAL	MATL MATERIAL
DIA DIAMETER	DIA DIAMETER	MAX MAXIMUM
DIM DIMENSION	DIM DIMENSION	MECH MECHANICAL
DS DOWNSPOUT	DS DOWNSPOUT	MEMB MEMBRANE
DSP DRY STANDPIPE	DSP DRY STANDPIPE	MFR MANUFACTURER
DWG DRAWING	DWG DRAWING	MH MANHOLE
DWR DRAWER	DWR DRAWER	MIN MINIMUM
EA EACH	EA EACH	MISC MISCELLANEOUS
EGSB EXTERIOR GYPSUM SHEATHING BOARD	EGSB EXTERIOR GYPSUM SHEATHING BOARD	MO MOISTURE RESISTANT
EIFS EXTERIOR INSULATION AND FINISH SYSTEM	EIFS EXTERIOR INSULATION AND FINISH SYSTEM	MTD MOUNTED
EJ EXPANSION JOINT	EJ EXPANSION JOINT	MTL METAL
EL ELEVATION	EL ELEVATION	MULL MULLION
ELEC ELECTRIC / ELECTRICAL	ELEC ELECTRIC / ELECTRICAL	NIC NOT IN CONTRACT
ELEV ELEVATOR	ELEV ELEVATOR	NO NUMBER
EMER EMERGENCY	EMER EMERGENCY	NOM NOMINAL
ENCL ENCLOSURE	ENCL ENCLOSURE	NTS NOT TO SCALE
EPB ELECTRICAL PANEL BOARD	EPB ELECTRICAL PANEL BOARD	O OVER
EQ EQUAL	EQ EQUAL	OC ON CENTER
EQUIP EQUIPMENT	EQUIP EQUIPMENT	OD OUTSIDE DIAMETER
EW EACH WAY	EW EACH WAY	OF/CI OWNER FURNISHED / CONTRACTOR INSTALLED
EXH EXHAUST	EXH EXHAUST	OFF OFFICE
EXIST EXISTING	EXIST EXISTING	OGL OBSOLETE GLASS
EXP EXPANSION	EXP EXPANSION	OPH OPPOSITE HAND
EXT EXTERIOR	EXT EXTERIOR	OPNG OPENING
FA FIRE ALARM	FA FIRE ALARM	OPP OPPOSITE
FB FLAT BAR	FB FLAT BAR	PAF POWER ACTUATED FASTENER
FD FLOOR DRAIN	FD FLOOR DRAIN	PL PROPERTY LINE; PLATE
FDTN FOUNDATION	FDTN FOUNDATION	PLM PLASTIC LAMINATE
FE FIRE EXTINGUISHER	FE FIRE EXTINGUISHER	PLB PLUMB
FEC FIRE EXTINGUISHER CABINET	FEC FIRE EXTINGUISHER CABINET	PLBG PLUMBING
FIN FINISH	FIN FINISH	PLYWD PLYWOOD
FLG FLOORING	FLG FLOORING	PNL PANEL
FLF FLOW LINE	FLF FLOW LINE	PROP PROPERTY
FLR FLOOR	FLR FLOOR	PSF POUNDS PER SQUARE FOOT
FOC FACE OF CONCRETE/CURB	FOC FACE OF CONCRETE/CURB	PSI POUNDS PER SQUARE INCH
FOF FACE OF FINISH	FOF FACE OF FINISH	PT PAINT, PAINT
FOM FACE OF MASONRY	FOM FACE OF MASONRY	PTN PARTITION
FOS FACE OF STUD	FOS FACE OF STUD	PV PHOTOVOLTAIC
FWL FACE OF WALL	FWL FACE OF WALL	Q QUARRY TILE
FR FIREPROOF	FR FIREPROOF	R RADIUS, RISER
FRP FIBERGLASS REINFORCED PLASTIC	FRP FIBERGLASS REINFORCED PLASTIC	RD ROOF DRAIN
FTG FEET / FOOT	FTG FEET / FOOT	RFP REINFORCING STEEL BAR
FT FOOTING	FT FOOTING	REF REFERENCE
FURG FURRING	FURG FURRING	REFN REINFORCE / REINFORCING
FUT FUTURE	FUT FUTURE	REQD REQUIRED
G GAGE	G GAGE	RESIL RESILIENT
GALV GALVANIZED	GALV GALVANIZED	RM ROOM
GB GRAB BAR	GB GRAB BAR	RO ROUGH OPENING
GI GALVANIZED IRON	GI GALVANIZED IRON	REDWOOD REDWOOD
GLU LAM GLUED LAMINATED WOOD	GLU LAM GLUED LAMINATED WOOD	RWL RAIN WATER LEADER
GYP GYPSUM	GYP GYPSUM	SAD SEE ARCHITECTURAL DRAWINGS
HB HOSE BIB	HB HOSE BIB	SATC SUSPENDED ACOUSTICAL TILE
HC HOLLOW CORE	HC HOLLOW CORE	CEILING CEILING
HOBDB HARDBOARD	HOBDB HARDBOARD	SB SPLASH BLOCK
HOW HARDWARE	HOW HARDWARE	SC SCHEDULE
HWWD HARDWOOD	HWWD HARDWOOD	SD STORM DRAIN
HM HOLLOW METAL	HM HOLLOW METAL	SDST SELF DRIVING, SELF TAPPING
HORIZ HORIZONTAL	HORIZ HORIZONTAL	SHT SHEET
HOUR HOUR	HOUR HOUR	SHTG SHEATHING
HT HEIGHT	HT HEIGHT	SHV SHELVING
ID INSIDE DIAMETER	ID INSIDE DIAMETER	SIM SIMILAR
INSUL INSULATION	INSUL INSULATION	SLNT SEALANT
INT INTERIOR	INT INTERIOR	SM SHEET METAL
JAN JANITOR	JAN JANITOR	SPEC SPECIFICATION
KIT KITCHEN	KIT KITCHEN	SQ SQUARE
LAB LABORATORY	LAB LABORATORY	SS SANITARY SEWER, SERVICE SINK

PROJECT DIRECTORY

OWNER HAYWARD UNIFIED SCHOOL DISTRICT 24411 AMADOR STREET HAYWARD, CA 94544 CONTACT: TIMOTHY CODY PHONE: (510) 784-2600 EMAIL: TCODY@HUSD.K12.CA.US	CIVIL ENGINEER BKf ENGINEERS 980 9TH STREET, SUITE 1770 SACRAMENTO, CA 95814 CONTACT: JIM MCCURDY PHONE: 916.556.5800 EMAIL: JIMC@BKf.COM
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STRUCTURAL ENGINEER LIONAKIS 1919 19TH STREET SACRAMENTO, CA 95811 CONTACT: LUCAS JOLLY PHONE: 916.558.1900 EMAIL: LUCAS.JOLLY@LIONAKIS.COM	MECHANICAL / PLUMBING ENGINEER CAPITAL ENGINEERING CONSULTANTS, INC. 11020 SUN CENTER DRIVE, STE 100 RANCHO CORDOVA, CA 95670-6114 CONTACT: MATT BROOKS PHONE: 916.851.3500 EMAIL: MBROOKS@CAPITAL-ENGINEERING.COM
FOOD SERVICE AMD FOOD SERVICE DESIGN, INC. P.O. BOX 163 GARDEN VALLEY CA 95633 CONTACT: ART DAVIS PHONE: 530.333.4606 EMAIL: ART@AMDFOODSERVICEDESIGN.COM	

GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES ETC. PRIOR TO CONSTRUCTION.
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTORS DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA.
- CONTRACTOR SHALL NOTIFY ARCHITECT WHERE CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
- WHERE REQUIRED, ROOM OCCUPANCY CAPACITIES SHALL BE POSTED WITH THE REQUIREMENTS OF CALIFORNIA STATE FIRE MARSHAL & CBC 1004.3.
- SPECIAL REQUIREMENTS:
 - A. ASSUMED PROPERTY LINES & FIRE SEPARATION DISTANCE PER SHEETS GL101
 - B. ACCESSIBLE PATH OF TRAVEL PER SHEET AS101
 - C. EMERGENCY VEHICLE ROUTE ACCESS PER GL101
 - D. FOR PARKING REQUIREMENTS SEE SHEET AS101
 - E. FOR BUILDING SIGNAGE REQUIREMENTS SEE SHEETS AG111A THROUGH AG112B
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24 CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24 CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK (SECTION 4-317(C), PART 1, TITLE 24, CCR).
- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO:
 - TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 - TITLE 24 CCR, PART 1 - 2016 BUILDING STANDARDS ADMINISTRATIVE CODE
 - TITLE 24 CCR, PART 2 - 2016 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC) (2015 INTERNATIONAL BUILDING CODE, VOL. 1-2, AND 2016 CALIFORNIA AMENDMENTS)
 - TITLE 24 CCR, PART 3 - 2016 CALIFORNIA ELECTRICAL CODE (CEC) (2014 NATIONAL ELECTRICAL CODE, AND 2016 CALIFORNIA AMENDMENTS)
 - TITLE 24 CCR, PART 4 - 2016 CALIFORNIA MECHANICAL CODE (CMC)
 - TITLE 24 CCR, PART 5 - 2016 CALIFORNIA PLUMBING CODE (CPC) (2015 UNIFORM PLUMBING CODE, AND 2013 CALIFORNIA AMENDMENTS)
 - TITLE 24 CCR, PART 6 - 2016 CALIFORNIA ENERGY CODE
 - TITLE 24 CCR, PART 7 - 2016 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE
 - TITLE 24 CCR, PART 9 - 2016 CALIFORNIA FIRE CODE (CFC) (2015 INTERNATIONAL FIRE CODE, AND 2016 CALIFORNIA AMENDMENTS)
 - TITLE 24 CCR, PART 11 - 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
 - TITLE 24 CCR, PART 12 - 2016 CALIFORNIA REFERENCED STANDARDS
 - 2013 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS W/ A17.1/CSA B44-13 ADDENDUM 1
 - 2016 NFPA 13, AUTOMATIC SPRINKLER SYSTEMS (CA AMENDED)
 - 2013 NFPA 14, STANDPIPE SYSTEMS
 - 2013 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS
 - 2013 NFPA 17A, WET CHEMICAL SYSTEMS
 - 2016 NFPA 20, STATIONARY PUMPS
 - 2013 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION
 - 2016 NFPA 24, PRIVATE FIRE MAINS
 - 2016 NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED)
 - 2016 NFPA 80, FIRE DOORS AND OTHER OPENING PROTECTIVES
 - 2015 NFPA 92, STANDARD FOR SMOKE CONTROL SYSTEMS
 - 2015 NFPA 253, CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS
 - 2015 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS
 - 2003 UL 464, AUDIBLE SIGNAL APPLIANCES
 - 1999 UL 521, HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
 - CFC 403.3, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION
- CHANGES TO THE APPROVED DRAWINGS OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS (CCD) APPROVED BY DSA, AS REQUIRED BY THE SECTION 4-338, PART 1, TITLE 24, CCR.
- A "DSA CERTIFIED" CLASS 1 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- A DSA APPROVED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- ALL WORK SHALL CONFORM TO THE 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

SHEET IDENTIFICATION LEGEND

DISCIPLINE DESIGNATORS - LEVEL 1

SHEET TYPE DESIGNATORS

BUILDING IDENTIFIER - WHERE OCCURS

DISCIPLINE DESIGNATOR - LEVEL 1

DISCIPLINE DESIGNATOR - LEVEL 2

REPLACE DASH WHERE OCCURS

SHEET TYPE DESIGNATOR

SHEET TYPE SUBSET DESIGNATOR

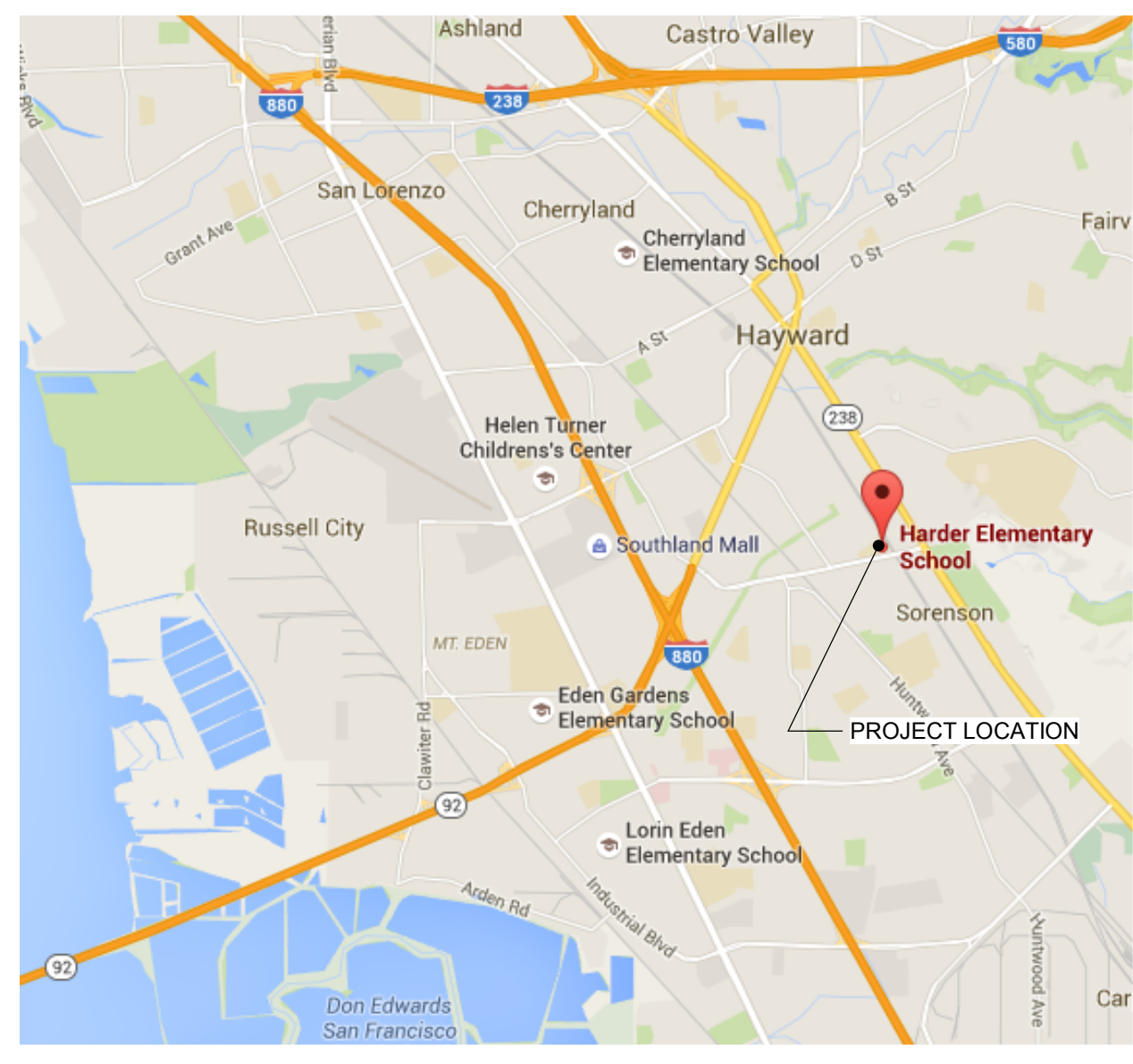
LEVEL/SEQUENCE DESIGNATOR

AREA IDENTIFIER - WHERE OCCURS

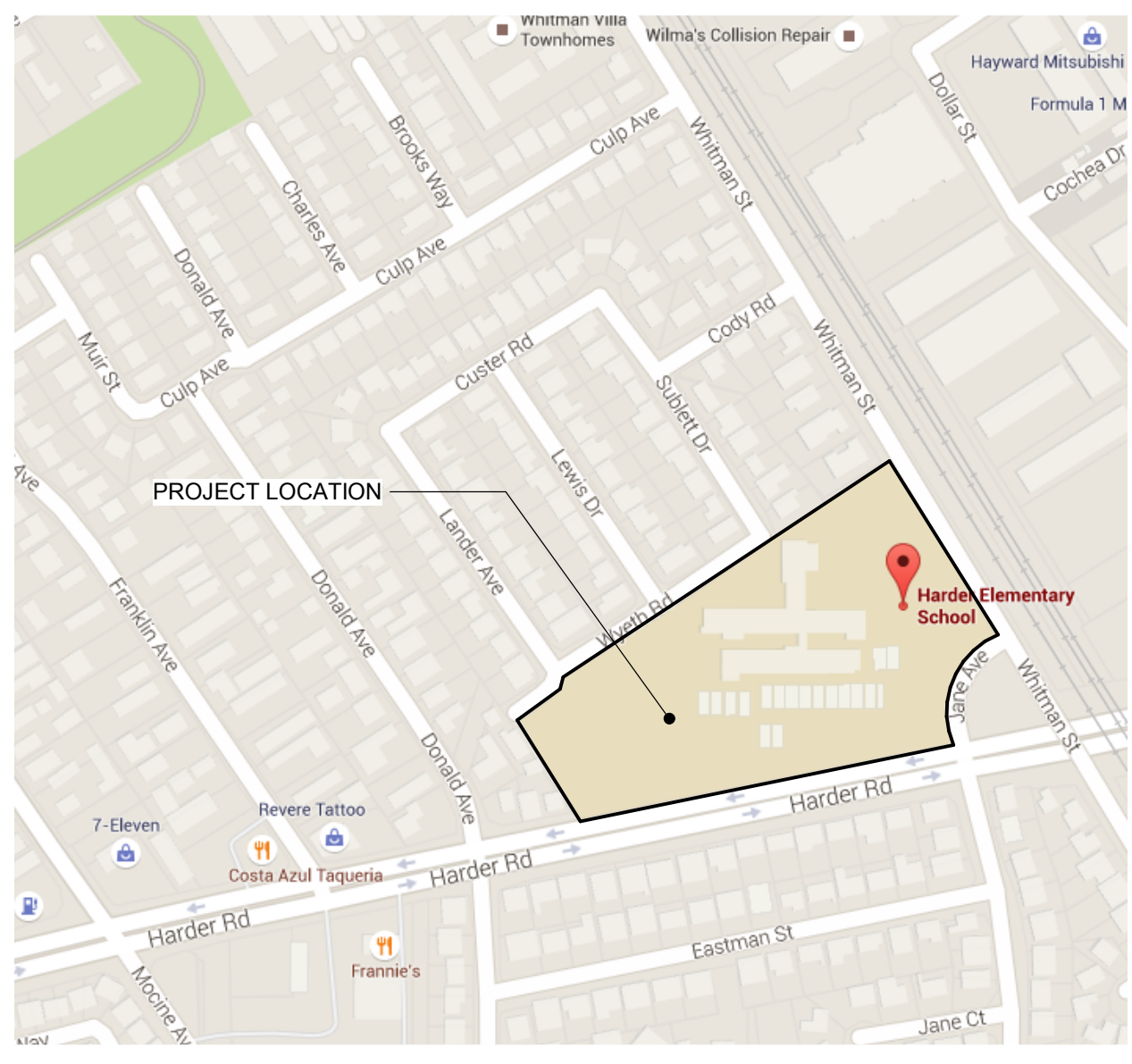
UNIQUE PORTION IDENTIFIER - WHERE OCCURS

C.A-123AB

LOCATION MAP



VICINITY MAP



SCOPE OF PROJECT

- DEMOLITION AND REPLACEMENT OF HARDER ELEMENTARY SCHOOL CAMPUS IN HAYWARD, CALIFORNIA.
- CONSTRUCTION OF REPLACEMENT CAMPUS DESIGNED TO ACCOMMODATE APPROXIMATELY 702 STUDENTS
- WORK INCLUDES ALL SCOPE WITHIN THESE DOCUMENTS INCLUDING BUT NOT LIMITED TO:
 - INCREMENT #1**
DEMOLITION OF EXISTING CAMPUS. SCOPE OF WORK SHALL INCLUDE ROUGH GRADING, INSTALLATION OF UNDERGROUND UTILITIES INCLUDING STORM DRAIN, SEWER, DOMESTIC WATER, FIRE WATER, GAS, ELECTRICAL AND LOW VOLTAGE CONDUITS TO WITHIN FIVE FEET OF ALL NEW PROPOSED BUILDINGS. ALL FUTURE BUILDING PADS SHALL BE CERTIFIED.
 - INCREMENT #2**
CONSTRUCTION OF BUILDING AML (ADMINISTRATION, MULTIPURPOSE, AND LIBRARY), ALSO INCLUDED IS THE SITE WORK RELATED TO ALL PAVING, HARDSCAPE, FENCING, DOMESTIC WATER, FIRE WATER, GAS, ELECTRICAL AND LOW VOLTAGE CONDUITS TO WITHIN FIVE FEET OF ALL NEW PROPOSED BUILDINGS. ALL FUTURE BUILDING PADS SHALL BE CERTIFIED.
 - INCREMENT #3**
CONSTRUCTION OF (1) TWO STORY BUILDING: BUILDING B (CLASSROOMS)
 - INCREMENT #4**
CONSTRUCTION OF (2) SINGLE STORY MODULAR BUILDINGS: BUILDING K1 AND BUILDING K2 (KINDERGARTEN)

DEFERRED SUBMITTALS

- TELESCOPING BLEACHERS
- WINDOW SPAN OPENINGS OVER 10'-0"
- ELEVATOR GUIDE RAILS (INC 3)

ARCHITECT'S STATEMENT

THE PROVIDED, BUT NOT LIMITED TO, CIVIL, LANDSCAPE, PLUMBING, MECHANICAL, ELECTRICAL, FOOD SERVICE, SHADING STRUCTURE MANUF, AND FIRE PROTECTION DRAWINGS, SPECIFICATIONS, AND/OR CALCULATIONS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR THE DESIGN INTENT AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS FOR TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND COORDINATION WITH MY PLANS AND SPECIFICATIONS. THE SECTIONS LISTED ABOVE ARE ACCEPTABLE FOR INCORPORATION INTO THIS PROJECT FOR WHICH I AM THE DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE OR FOR WHICH I HAVE BEEN DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK. THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-338 AND 4-344 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317(B))

SIGNATURE OF ARCHITECT _____ DATE _____

LICENSE NUMBER _____ EXPIRATION DATE _____

SEAL



PROJECT
HARDER ELEMENTARY SCHOOL
INCREMENT #2

495 WYETH ROAD
HAYWARD, CA 94544

CLIENT
HAYWARD UNIFIED SCHOOL DISTRICT

24411 AMADOR STREET
HAYWARD, CA 94544

ISSUED

MARK	DATE	DESCRIPTION
	12/12/2018	DSA SUBMITTAL
	04/01/2019	BID DOCUMENTS

MANAGEMENT

LIONAKIS PROJECT NO:	015470
DSA PROJECT NO:	01-117934
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AGENCY

TITLE

COVER SHEET

SHEET

G-001

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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EXISTING CONDITION NOTES

1. THE BENCHMARK AND BASIS OF BEARINGS FOR THE PROJECT SITE WAS PROVIDED TO BKF ENGINEERS BY THE TOPOGRAPHIC SURVEY DATED APRIL 25, 2016 BY UNDERWOOD & ROSENBLUM INC.
2. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE KNOWN UNDERGROUND UTILITIES. THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND WERE OBTAINED FROM VARIOUS SOURCES, INCLUDING TOPOGRAPHIC FIELD SURVEYS, AND AS-BUILT DRAWINGS PROVIDED BY THE PROPERTY OWNER. ABANDONED UNDERGROUND UTILITIES MAY EXIST. THE LOCATION OF WHICH ARE NOT KNOWN. CONTRACTOR IS CAUTIONED THAT THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS MAY NOT BE THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS ENCOUNTERED IN THE FIELD.
3. ONLY EXCAVATION AND PHYSICAL EXPOSURE WILL REVEAL THE ACTUAL TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING EXISTING UNDERGROUND UTILITIES WITHIN THE AREA OF WORK. CONTRACTOR SHALL RETAIN A PRIVATE UTILITY LOCATOR TO IDENTIFY EXISTING UTILITIES. THE CONTRACTOR SHALL POTHOLE AS NECESSARY AT CONNECTION LOCATIONS AND PROPOSED UTILITY CROSSINGS TO FULLY LOCATE AND IDENTIFY EXISTING UTILITIES. POTHOLING SHALL BE DONE AND THE RESULTS, INCLUDING ANY CONFLICTS IDENTIFIED, REPORTED TO THE ENGINEER PRIOR TO THE START OF WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK TO AVOID CONFLICTS BETWEEN SEWER LATERALS, STORM DRAINS, WATER MAINS, AND ALL OTHER UNDERGROUND UTILITIES.
5. UTILITY INFORMATION IS OBTAINED BY AS-BUILT INFORMATION AS WELL AS SURVEY OBSERVATION. ALL EXISTING UTILITY INFORMATION IN THIS PLAN SET IS IDENTIFIED PER THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD FOR LEVEL OF QUALITY. BELOW IS A LIST OF THE LEVEL OF QUALITY CATEGORIES WITH THE ASSOCIATED DEFINITION PER ASCE STANDARDS.
 - (C)- INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.
 - (D)- UTILITY LOCATION INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

EXISTING CONTROL POINTS			
Point #	Description	Northing	Easting
P-1	MONUMENT	2062909.86	6105962.71
P-2	NAIL	2063703.00	6106761.26
P-3	MONUMENT	2063269.32	6106060.57



PROJECT HARDER ELEMENTARY SCHOOL INCREMENT #1

495 WYETH ROAD
HAYWARD, CA 94544

CLIENT
HAYWARD UNIFIED SCHOOL DISTRICT

24411 AMADOR STREET
HAYWARD, CA 94544

ISSUED

MARK	DATE	DESCRIPTION
	12/12/2018	DSA SUBMITTAL
	03/20/2019	DSA BACKCHECK
	04/18/2019	ADDENDUM 3

MANAGEMENT

LIONAKIS PROJECT NO:	015470
DSA PROJECT NO:	01-117934
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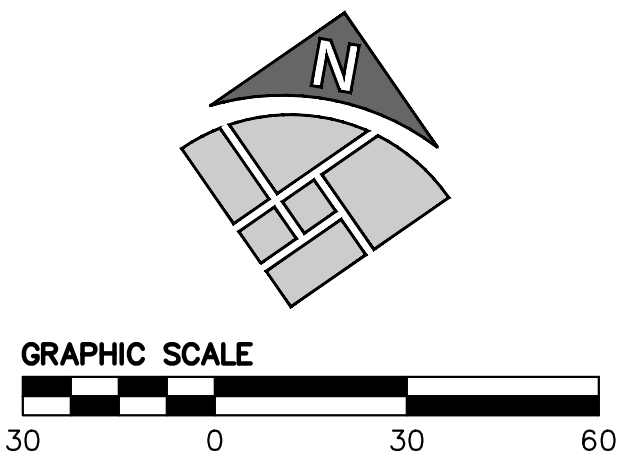
AGENCY

TITLE

EXISTING
CONDITIONS

SHEET

1CE101



CONTINUATION LINE, SEE SHEET CU103

CONTINUATION LINE, SEE SHEET 1CU102

UTILITY ENLARGEMENT

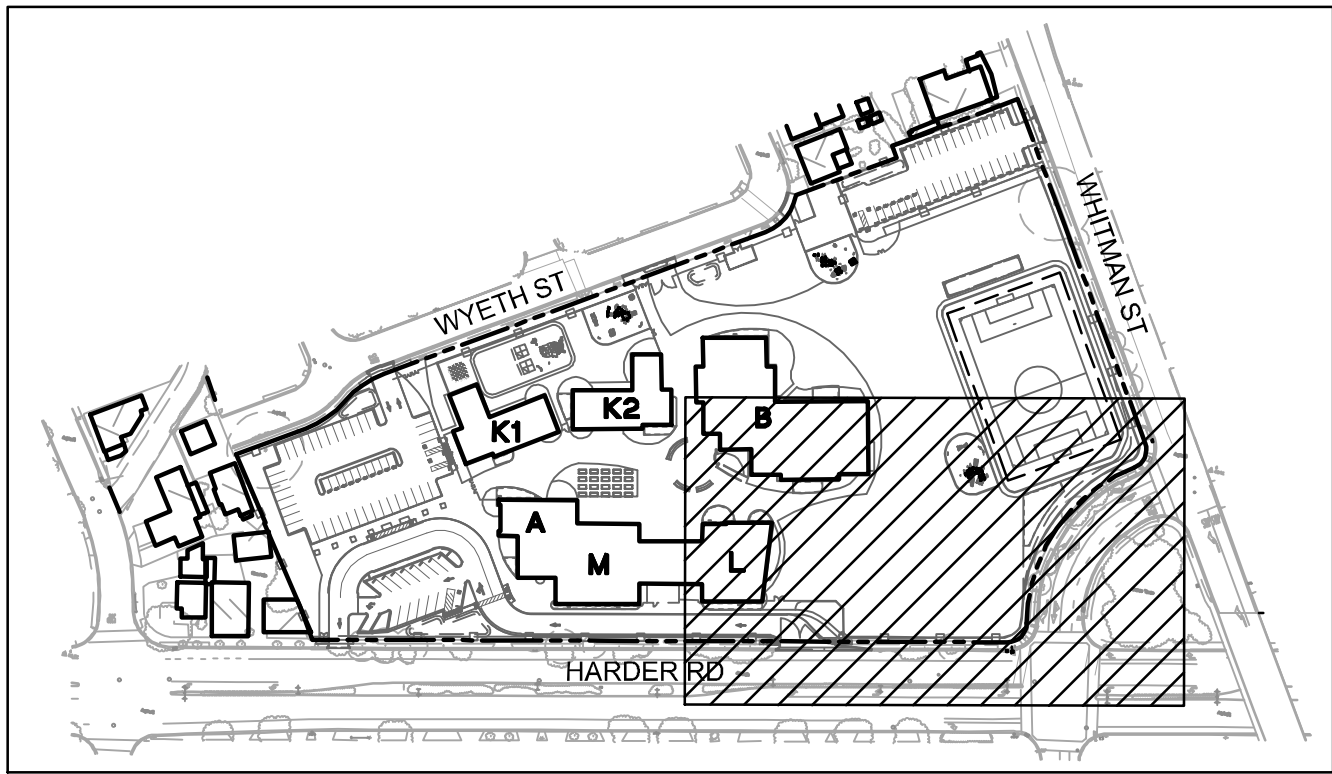
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UTILITY NOTES

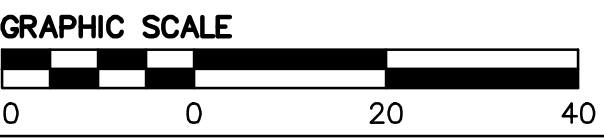
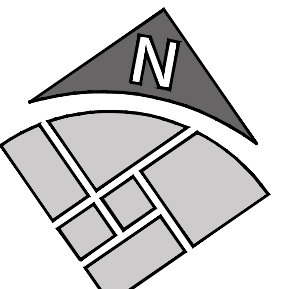
1. PROPOSED SITE PLAN HAS BEEN SCREENED FOR CLARITY.
2. RIM ELEVATIONS FOR EXISTING UTILITY STRUCTURES SHALL BE RAISED TO PROPOSED SURFACE ELEVATIONS
3. PROTECT ALL EXISTING UTILITIES AND SITE FEATURES FROM BEING DAMAGED, UNLESS OTHERWISE NOTED. ALL UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE ENGINEER.
4. THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS AND TEES ON WATER MAINS & FIRE SERVICE LINES. CONTRACTOR MAY USE RESTRAIN JOINTS INSTEAD OF THRUST BLOCKS AT ALL BENDS AND TEES. CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE RESTRAIN JOINT LENGTH.
5. EXISTING UNDERGROUND UTILITIES, INCLUDING THOSE MARKED UNKNOWN, ARE BASED ON SURVEY COMPLETED BY OTHERS AND PROVIDED TO BKF ENGINEERS FOR INCLUSION IN PLANS. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
6. LENGTH OF PIPES ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURES, ROUNDED TO THE NEAREST FOOT AND ARE SHOWN FOR ENGINEERING CALCULATIONS ONLY. CONTRACTOR SHALL ESTIMATE THEIR OWN PIPE LENGTHS PRIOR TO BIDDING.
7. CONTRACTOR SHALL USE DUCTILE IRON PIPE WHEN THE CLEARANCE BETWEEN THE OUTER DIAMETERS OF THE PIPES IS LESS THAN 6" PER CITY OF HAYWARD STANDARD DETAIL SD-303, SEE SHEET 1C501 FOR DETAIL.
8. CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE DURING COMPACTION OF SUBGRADE MATERIAL AND PRIOR TO PLACEMENT OF FINAL PAVEMENT SURFACE. **CONTRACTOR CAUTIONED THAT DURING FINAL GRADING OPERATIONS, NEW PIPES MAY HAVE LESS COVER THAN THEY WILL IN FINAL CONDITION. AVOID DRIVING CONSTRUCTION EQUIPMENT OVER NEW PIPES.**
9. CONTRACTOR IS CAUTIONED THAT PVC PIPE DERIVES ITS STRENGTH FROM THE COMPACTED BEDDING MATERIAL BELOW AND BESIDE THE PIPE HAUNCHES. CONTRACTOR SHALL EXERCISE CARE IN THE PLACEMENT AND COMPACTION OF THIS MATERIAL.
10. EXISTING PIPE LINES MAY HAVE CATHODIC PROTECTION. CONTRACTOR SHALL ENSURE THAT ALL CONNECTIONS TO EXISTING PIPE LINES ARE ELECTRICALLY COMMON WITH THE PIPE LINE. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
11. ALL LANDSCAPING, WALKWAYS, PAVED AREAS AND EXISTING UTILITIES, ETC. DAMAGED BY CONSTRUCTION, SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING.
12. CONNECTIONS TO RECTANGULAR DRAIN INLETS MUST BE ON THE FACE OR SIDE ALLOWING A MINIMUM OF 6" FROM THE CORNER OF THE INLET. A CONNECTION TO CORNERS OF DRAIN INLETS IS NOT ALLOWED.
13. FIRE HYDRANTS, FIRE DEPARTMENT CONNECTIONS, AND POST INDICATOR VALVES SHALL BE CLEAR OF OBSTRUCTIONS FOR A MINIMUM 3' FEET ON ALL SIDES.
14. TAMPER SWITCH SHALL BE PROVIDED ON THE PROPOSED POST INDICATOR VALVE (PIV), FIRE DEPARTMENT CONNECTION (FDC), AND DETECTOR CHECK. TAMPER SWITCHES SHALL BE INTERCONNECTED WITH THE ON-SITE FIRE ALARM SYSTEM. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
15. BASED ON CORROSION TEST RESULTS, THE SOILS AT THE SITE ARE CLASSIFIED AS MODERATELY CORROSIVE. TO PROPERLY PROTECT BURIED UTILITIES THE CONTRACTOR IS DIRECTED TO FOLLOW GEOTECHNICAL RECOMMENDATIONS RELATED TO CORROSIVITY.
16. CONTRACTOR TO PERFORM HYDROSTATIC PRESSURE AND LEAKAGE TEST OF DOMESTIC AND FIRE WATER SYSTEMS PER DESIGN SPECIFICATION PRIOR TO CONNECTION TO CITY OF HAYWARD WATER MAIN.
17. FOLLOWING ASSEMBLY AND TESTING AND PRIOR TO DISINFECTION & FINAL ACCEPTANCE, ALL POTABLE WATER PIPELINES MUST BE FLUSHED WITH WATER AND ALL ACCUMULATED CONSTRUCTION DEBRIS AND OTHER FOREIGN MATTER REMOVED. USE ONLY POTABLE WATER FOR FLUSHING POTABLE WATER PIPELINES. FLUSHING VELOCITIES MUST BE A MINIMUM OF 2.5- FEET PER SECOND. CONE STRAINERS MUST BE INSERTED IN THE CONNECTIONS TO ATTACHED EQUIPMENT AND LEFT THERE UNTIL CLEANING HAS BEEN ACCOMPLISHED TO THE SATISFACTION OF THE COLOR REPRESENTATIVE. ACCUMULATED DEBRIS MUST BE REMOVED THROUGH DRAINS TWO INCHES AND LARGER OR BY DROPPING SPOOLS AND VALVES.
18. CONTRACTOR SHALL VERIFY AND PROVIDE ADA COMPLIANT GRATE AND STRUCTURE IN PATH OF TRAVEL.
19. **GAS LINES ARE SHOWN FOR REFERENCE ONLY. SEE PLUMBING DRAWINGS FOR GAS LINE SIZE AND ROUTING DETAIL.**

UTILITY SCHEDULE

PIPING	
SYSTEM:	MATERIAL
WATER (DOMESTIC)	PVC C900 CL200
WATER (FIRE)	PVC C900 CL200
STORM DRAIN	HDPE "RIBBED" SDR-35
STORM SUB DRAIN/PERF PIPE	HDPE SDR-35
SANITARY SEWER	PVC SDR-26
STRUCTURES	
SYSTEM:	DETAIL
WATER	
THRUST BLOCKS	DETAIL 3 SHEET 1C500
METER BOX	CITY OF HAYWARD DETAIL SD-220
BFP	DETAIL 4 SHEET 1C501
FIRE WATER	
FIRE HYDRANT & VALVE	DETAIL 1 SHEET 1C501
CHECK VALVE	6" FEBCO SINGLE CHECK VALVE SERIES 800 OR EQUAL
PIV & FDC	DETAIL 4 SHEET 1C502
DDCV	FEBCO 8" LF 856
GATE VALVE	DETAIL 1 SHEET 1C502
THRUST BLOCKS	DETAIL 3 SHEET 1C500
STORM DRAIN	
MANHOLE	DETAIL 2 SHEET 1C501
CLEANOUT	DETAIL 3 SHEET 1C502
SDJB	OLD CASTLE 2424
SDCI	DETAIL 4 SHEET 1C500
SDCB	OLD CASTLE 1212, 1818 AND 2424
SDAD	DETAIL 2 SHEET 1C502
POP-UP EMITTER	DETAIL 6 SHEET 1C502
SANITARY SEWER	
MANHOLE	DETAIL 3 SHEET 1C501
CLEANOUT	DETAIL 3 SHEET 1C502
SSDI W/ P-TRAP	DETAIL 5 SHEET 1C502



KEY PLAN
NTS



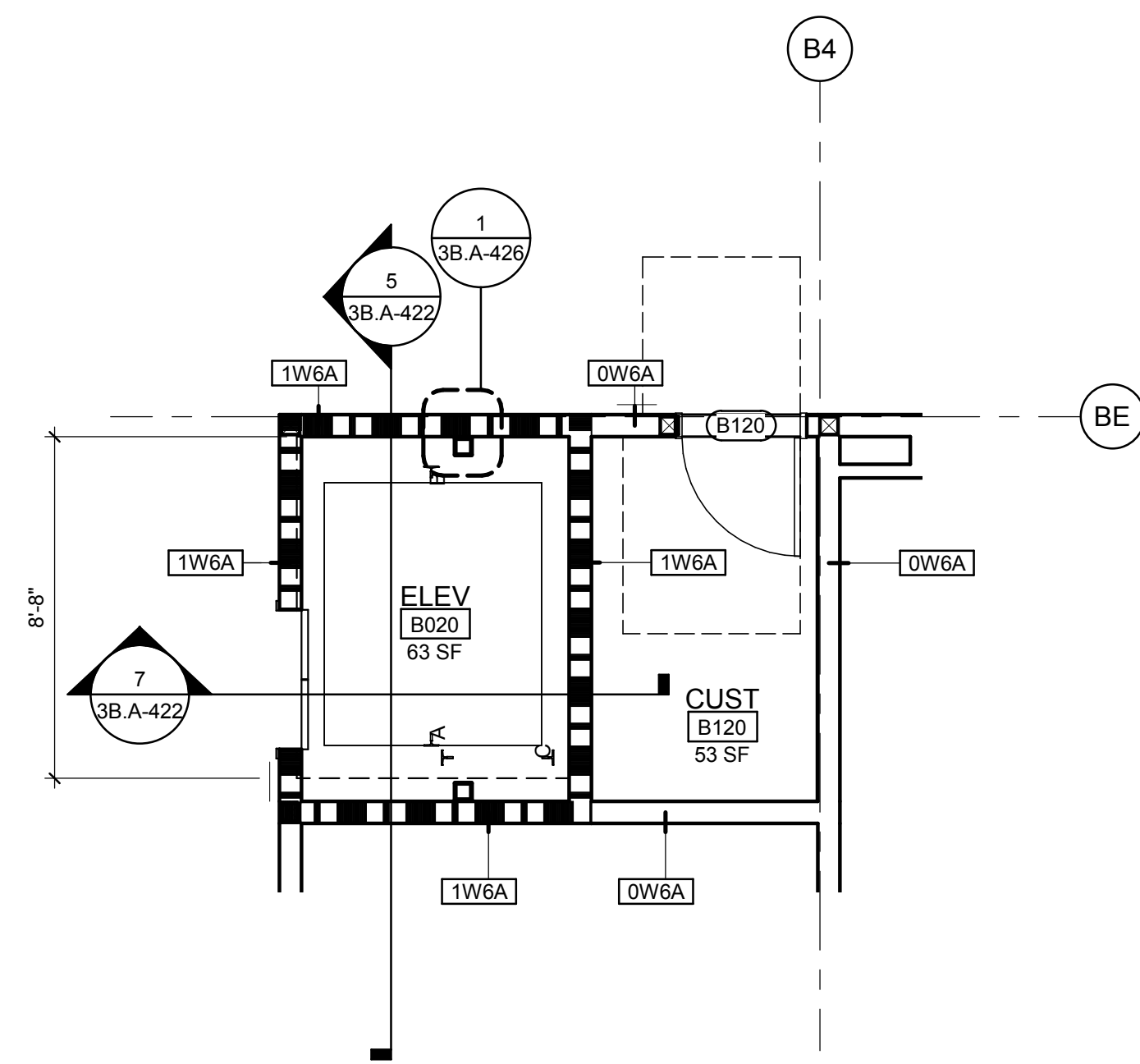
MARK	DATE	DESCRIPTION
	12/12/2018	DSA SUBMITTAL
	03/20/2019	DSA BACKCHECK
	04/18/2019	ADDENDUM 3

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DSA PROJECT NO:	01-117934
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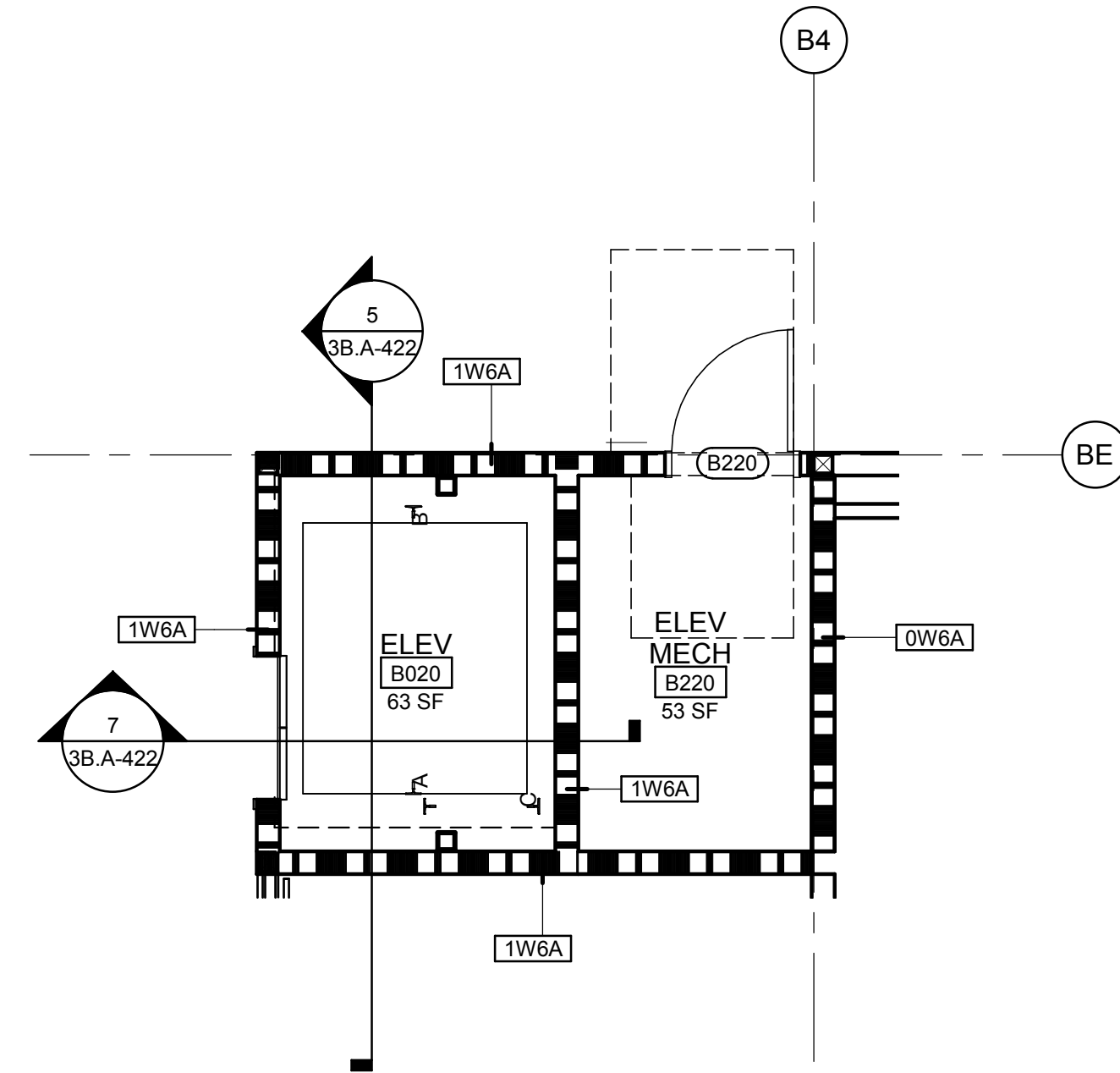
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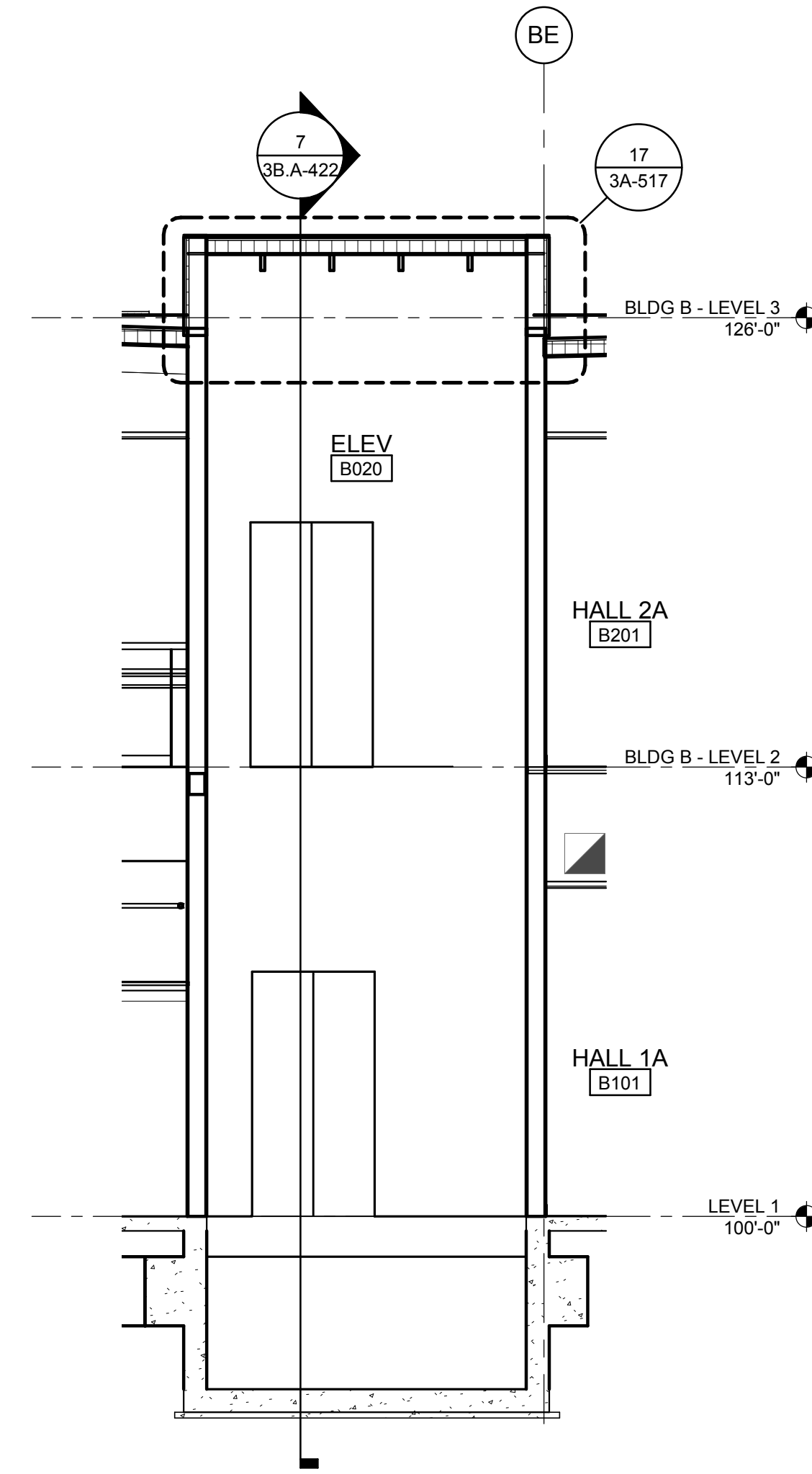
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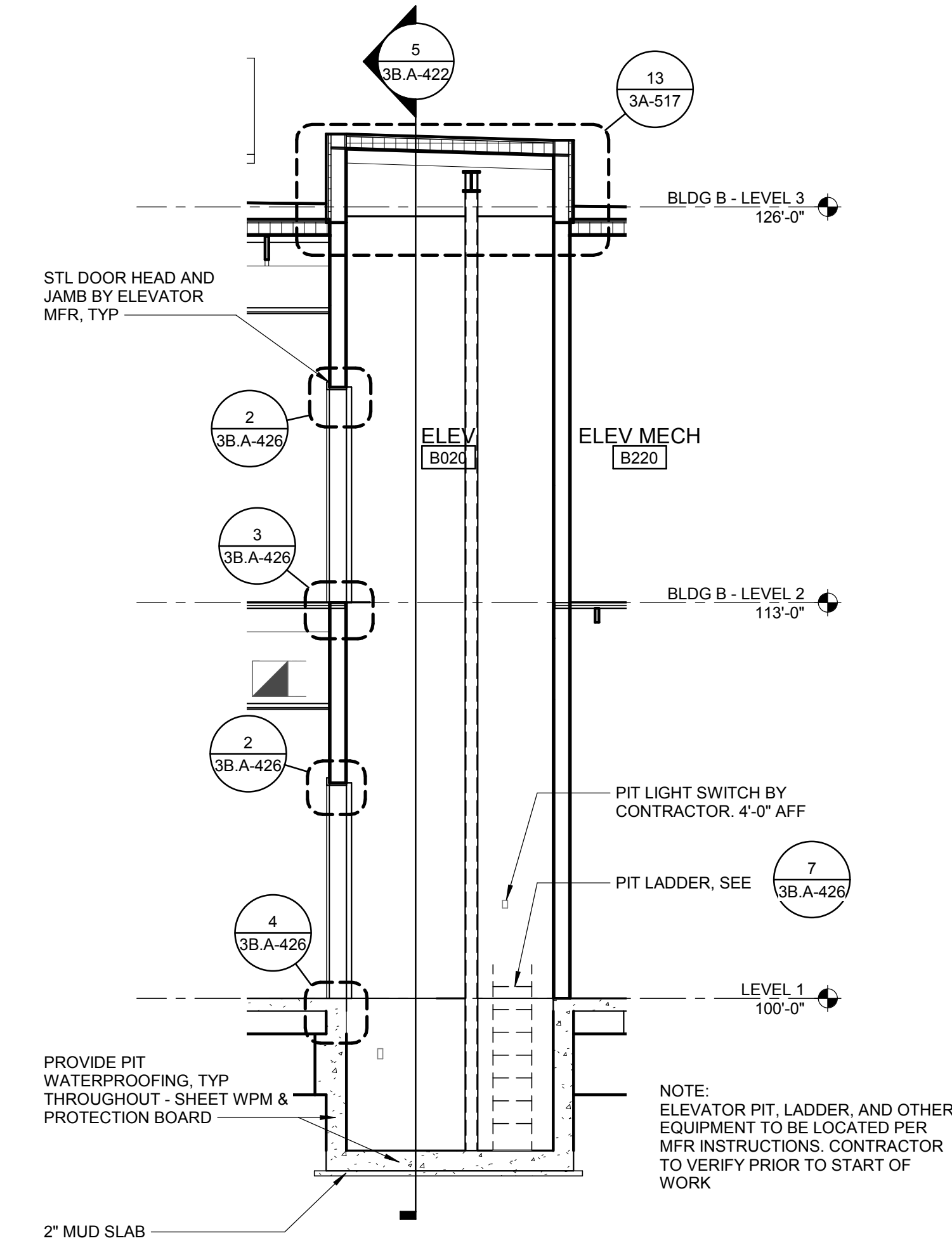
1 BUILDING B LEVEL 1 - ELEVATOR
SCALE 1/4" = 1'-0"



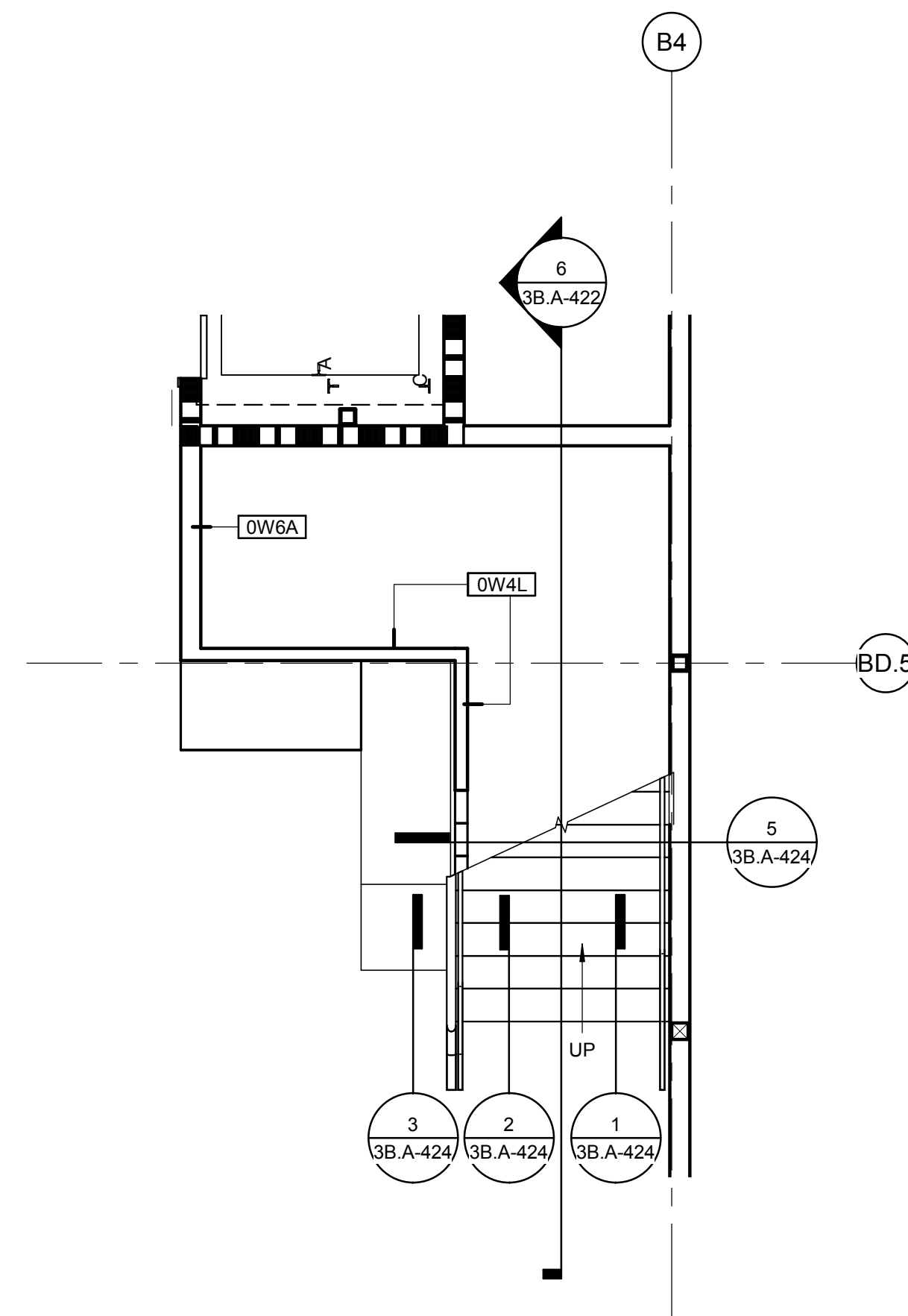
3 BUILDING B LEVEL 2 - ELEVATOR
SCALE 1/4" = 1'-0"



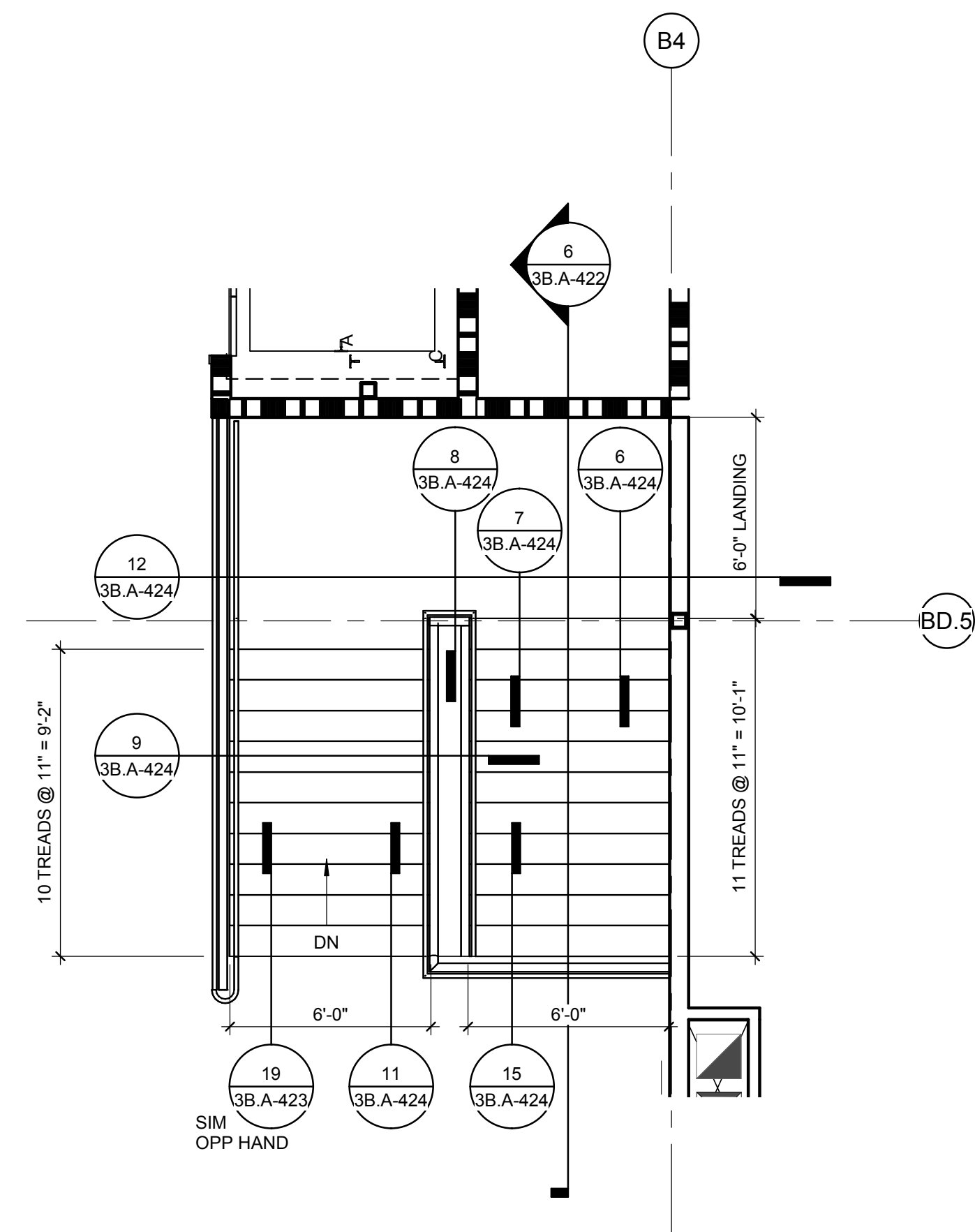
5 BUILDING B - ELEVATOR SECTION
SCALE 1/4" = 1'-0"



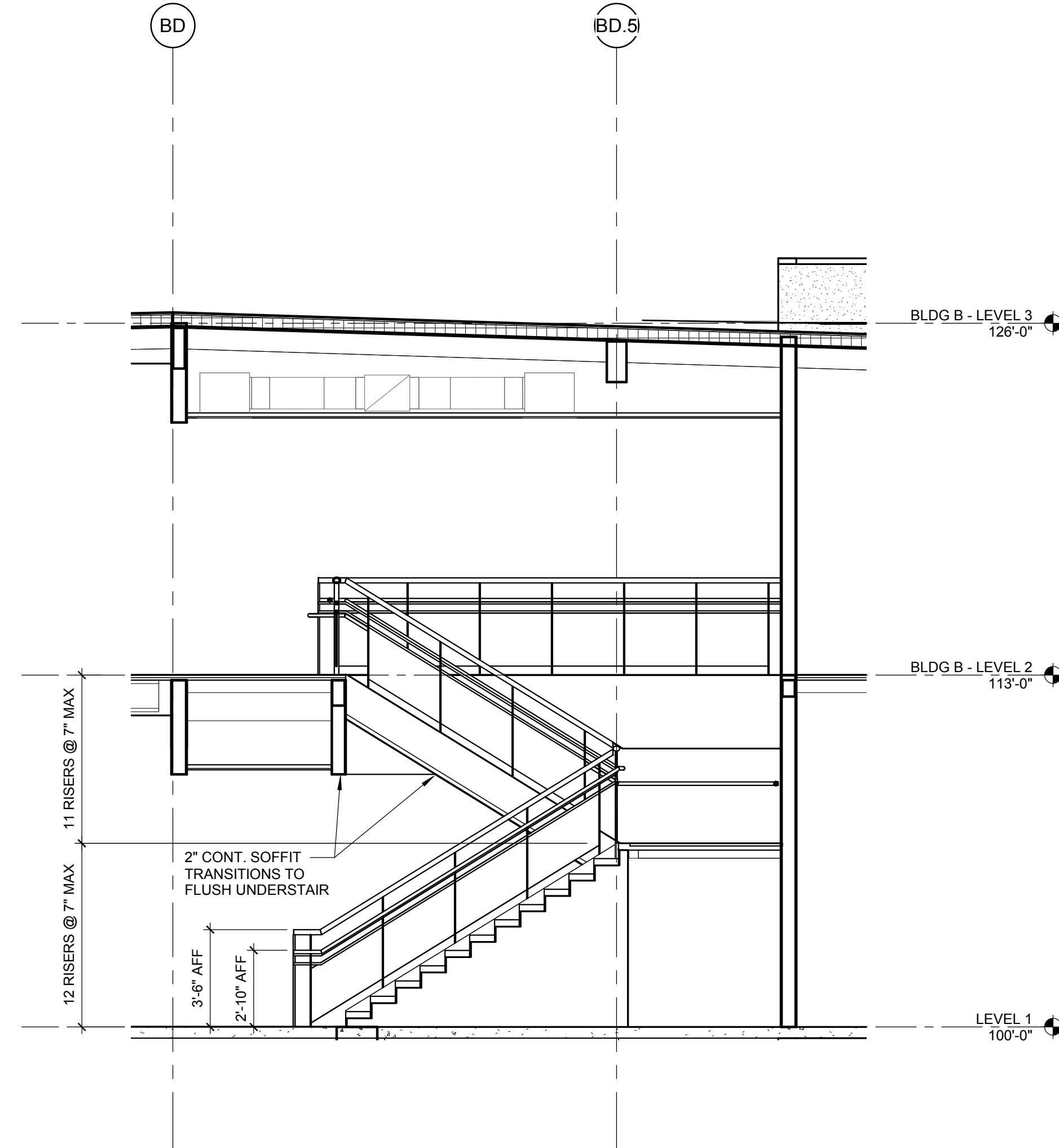
7 BUILDING B - ELEVATOR SECTION - EW
SCALE 1/4" = 1'-0"



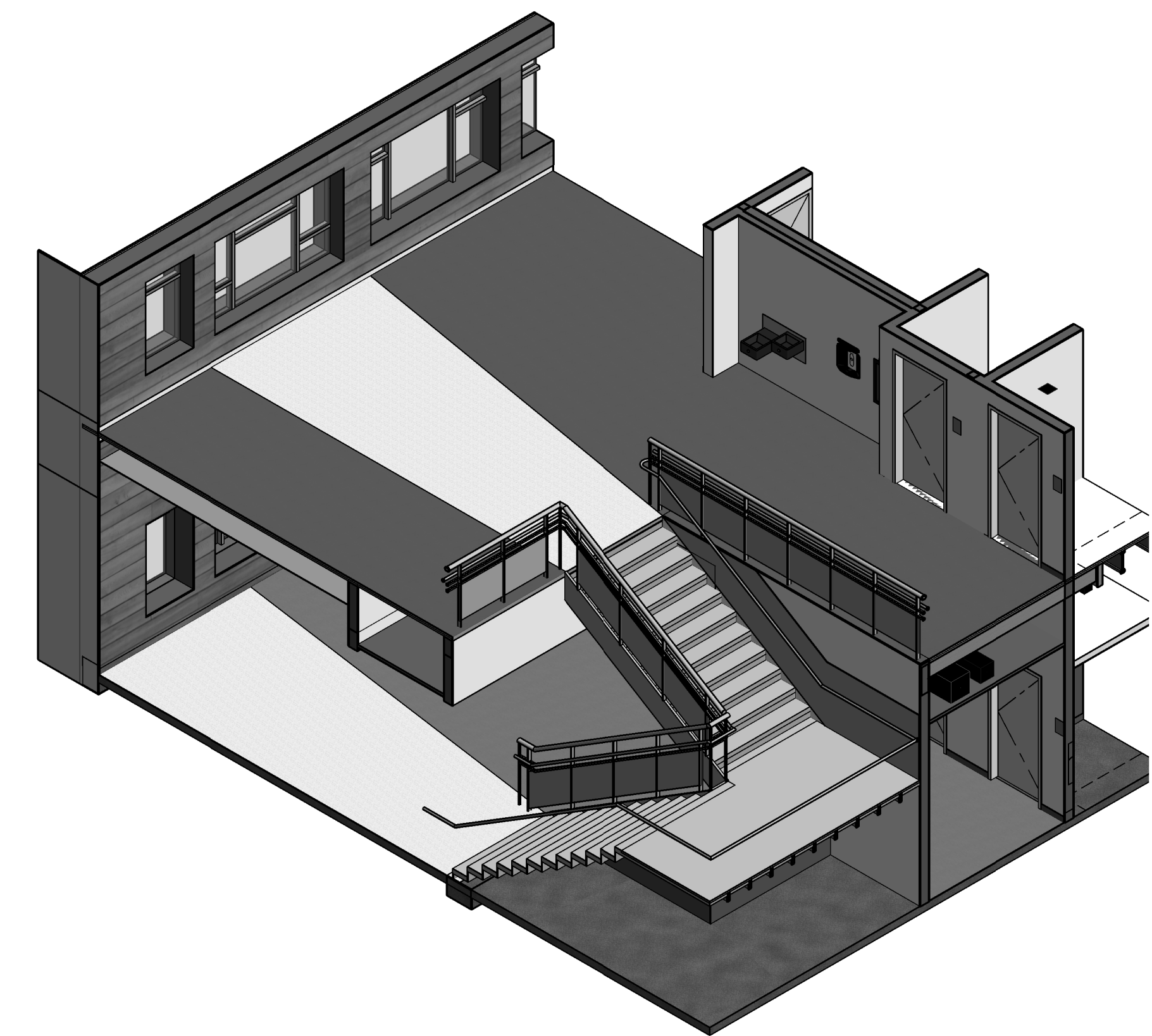
2 BUILDING B LEVEL 1 - STAIR 2
SCALE 1/4" = 1'-0"



4 BUILDING B LEVEL 2 - STAIR 2
SCALE 1/4" = 1'-0"



6 BUILDING B STAIR 2 SECTION
SCALE 1/4" = 1'-0"



8 STAIR 2 - 3D
SCALE

LIONAKIS

1919 Nineteenth Street
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www.lionakis.com

CONSULTANT

SEAL



PROJECT
HARDER ELEMENTARY SCHOOL
INCREMENT #3

495 WYETH ROAD
HAYWARD, CA 94544

CLIENT
HAYWARD UNIFIED SCHOOL DISTRICT

24411 AMADOR STREET
HAYWARD, CA 94544

ISSUED

MARK	DATE	DESCRIPTION
	03/18/2019	DSA SUBMITTAL
	04/02/2019	BID DOCUMENTS

MANAGEMENT

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DSA PROJECT NO:	01-119934
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AGENCY

TITLE

BUILDING B
STAIR 2 &
ELEVATOR
PLANS &
SECTIONS

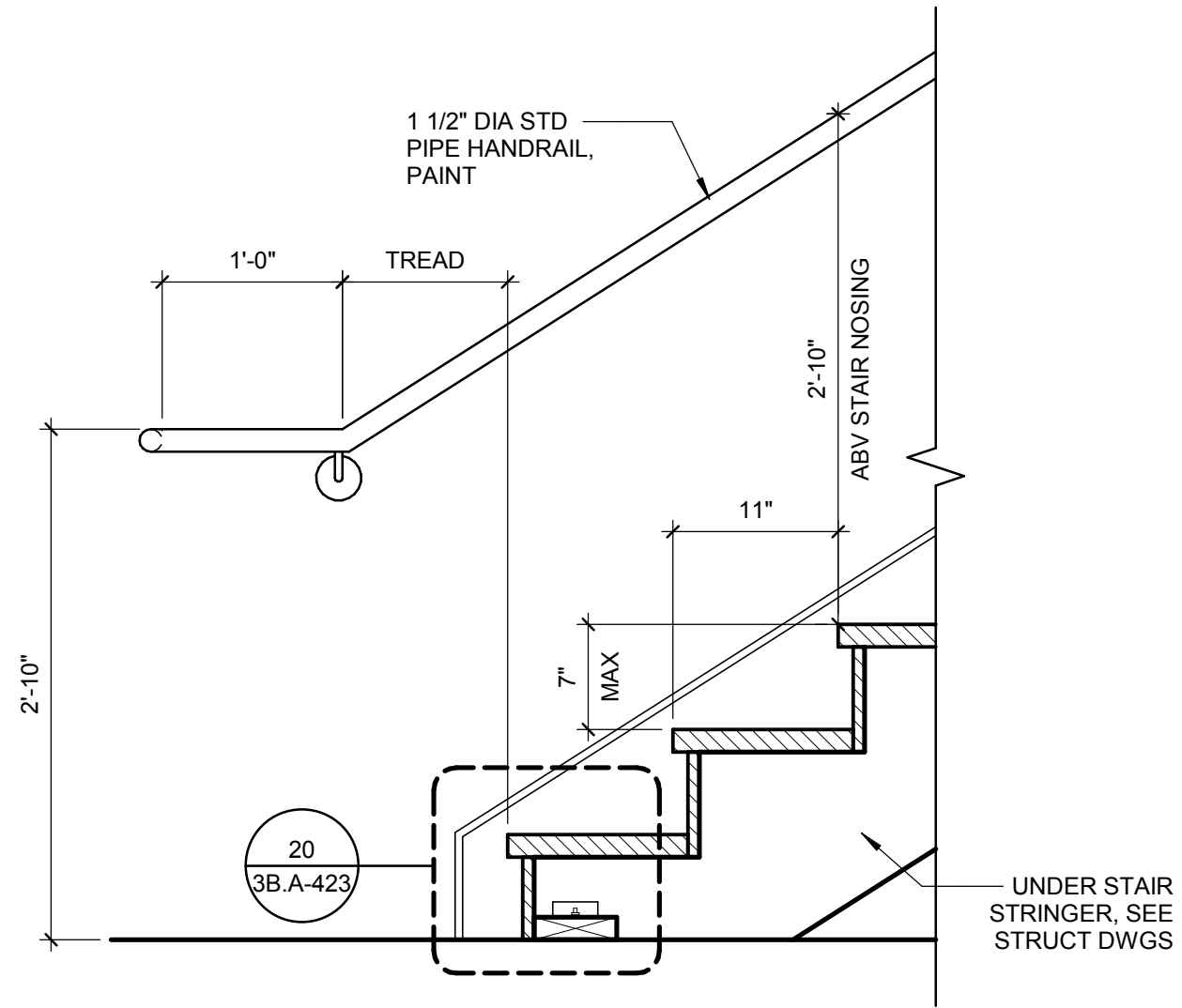
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3B.A-422

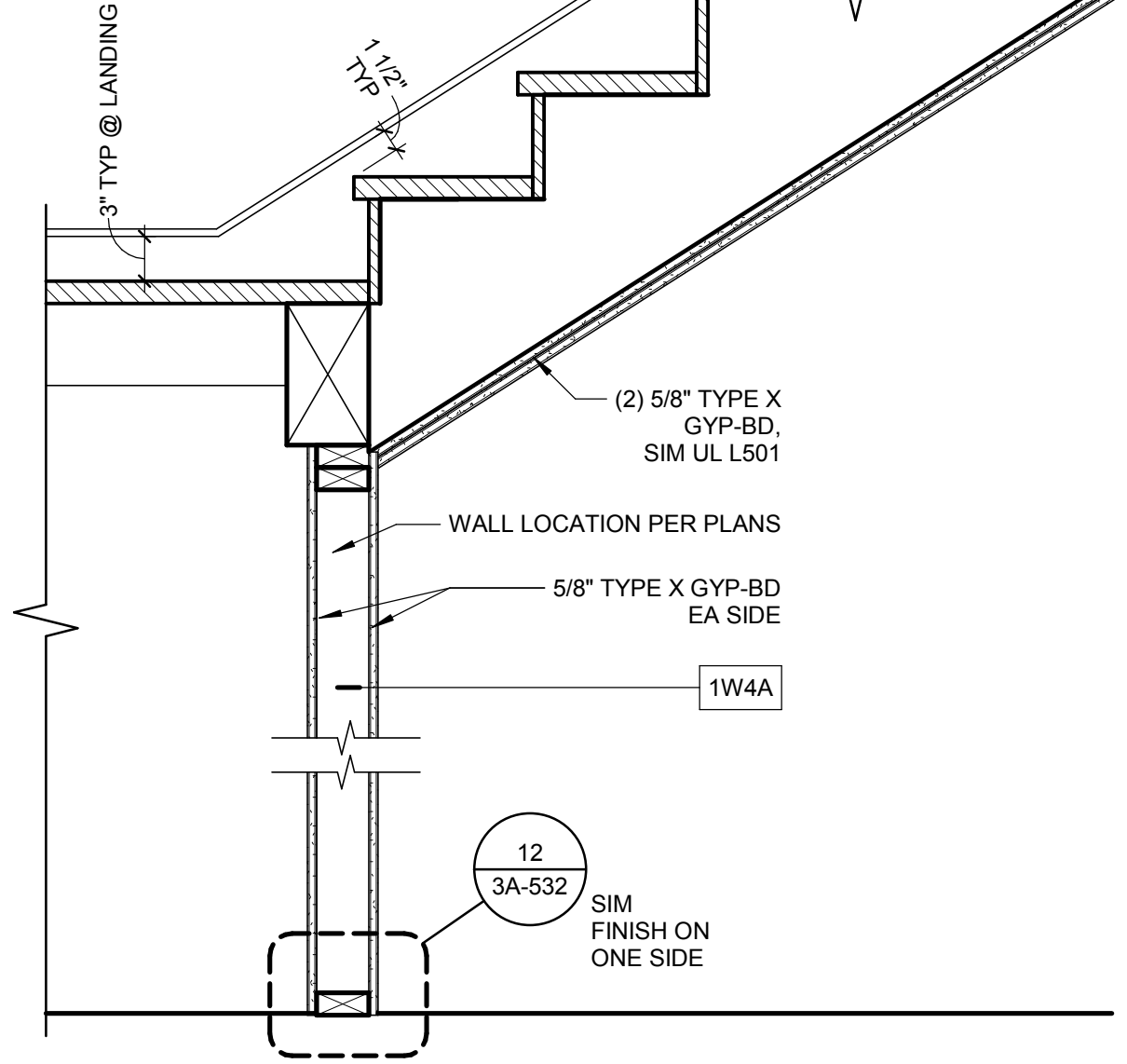
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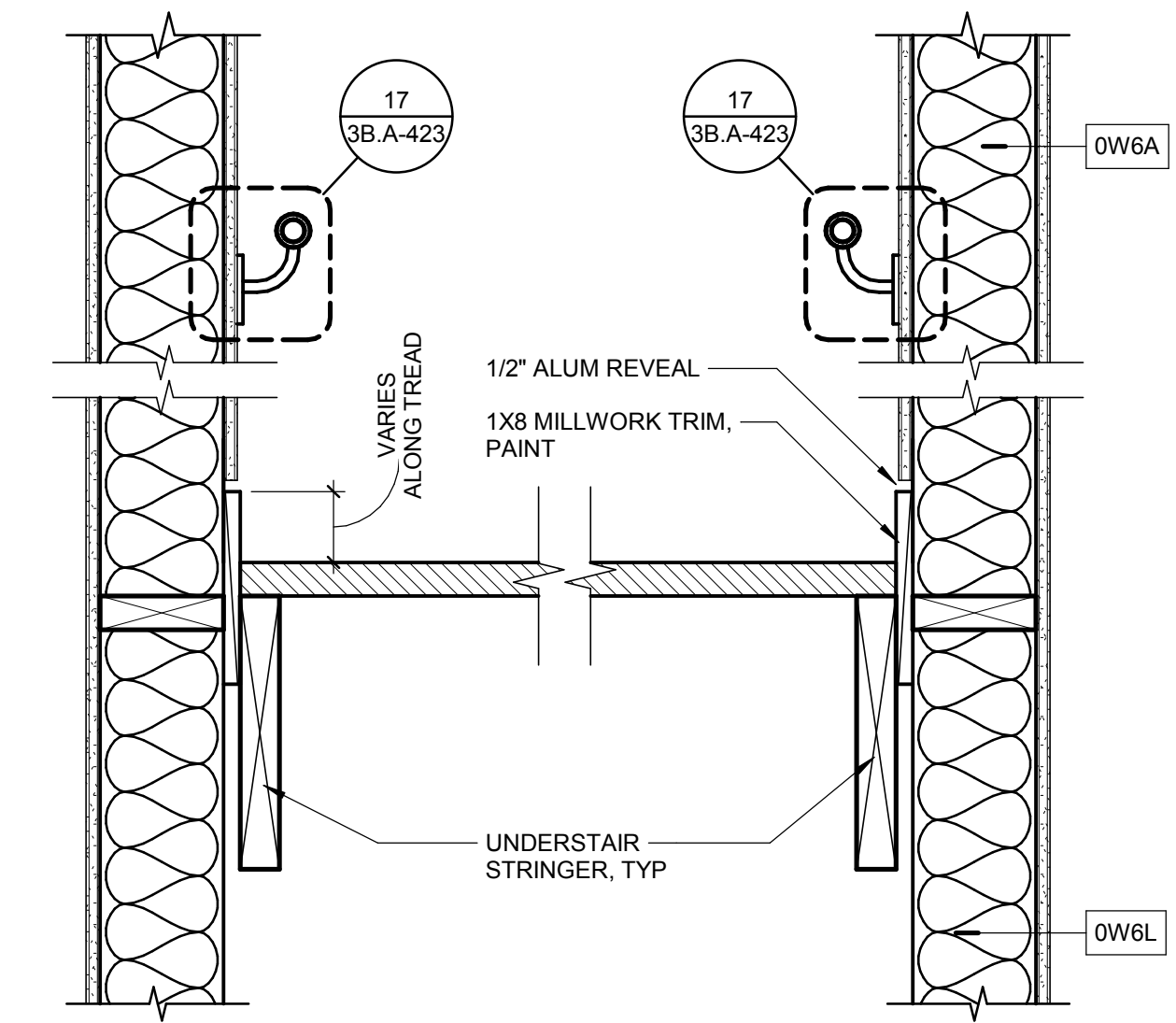
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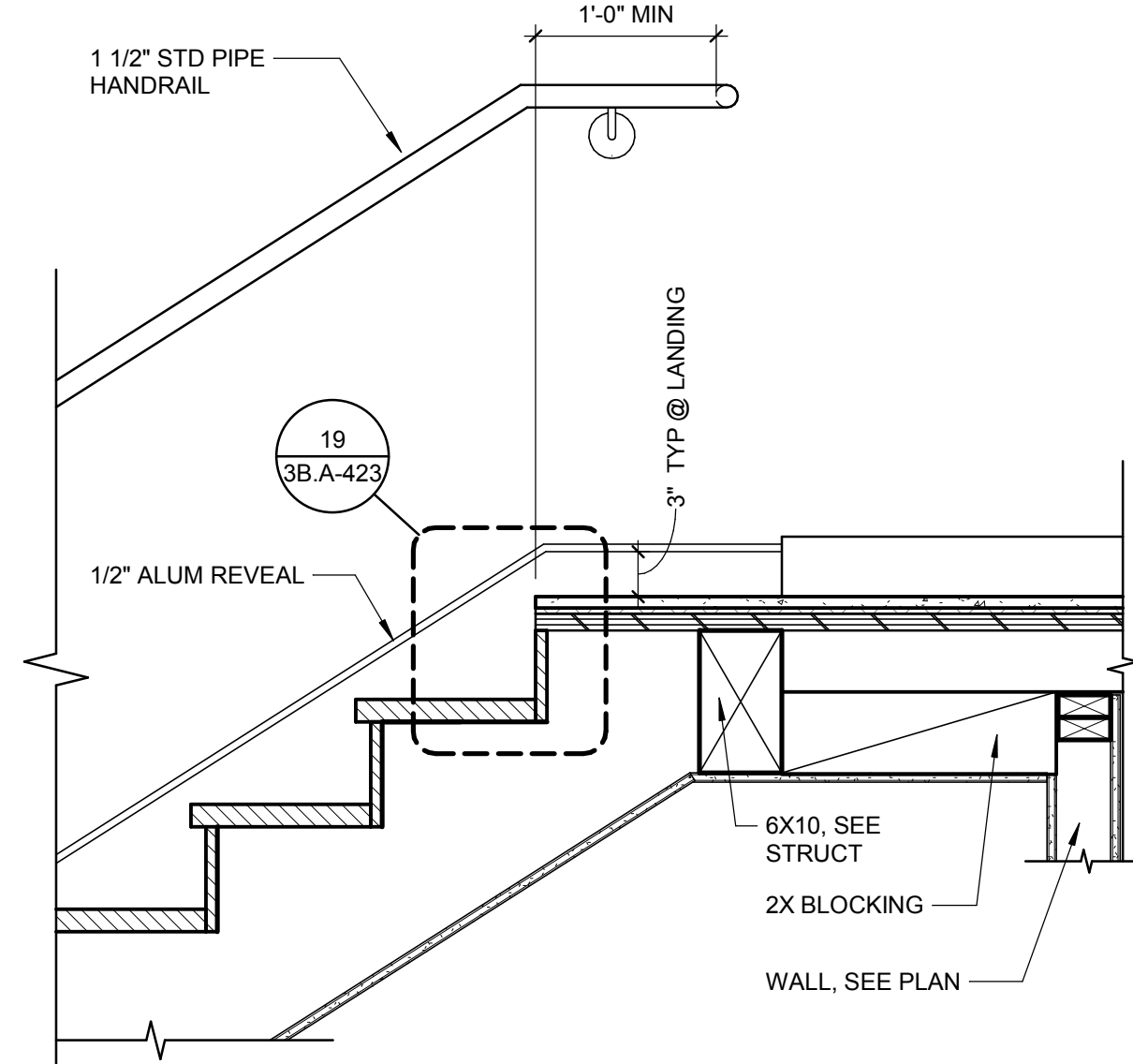
1 HANDRAIL AT FLOOR
1" = 1'-0"



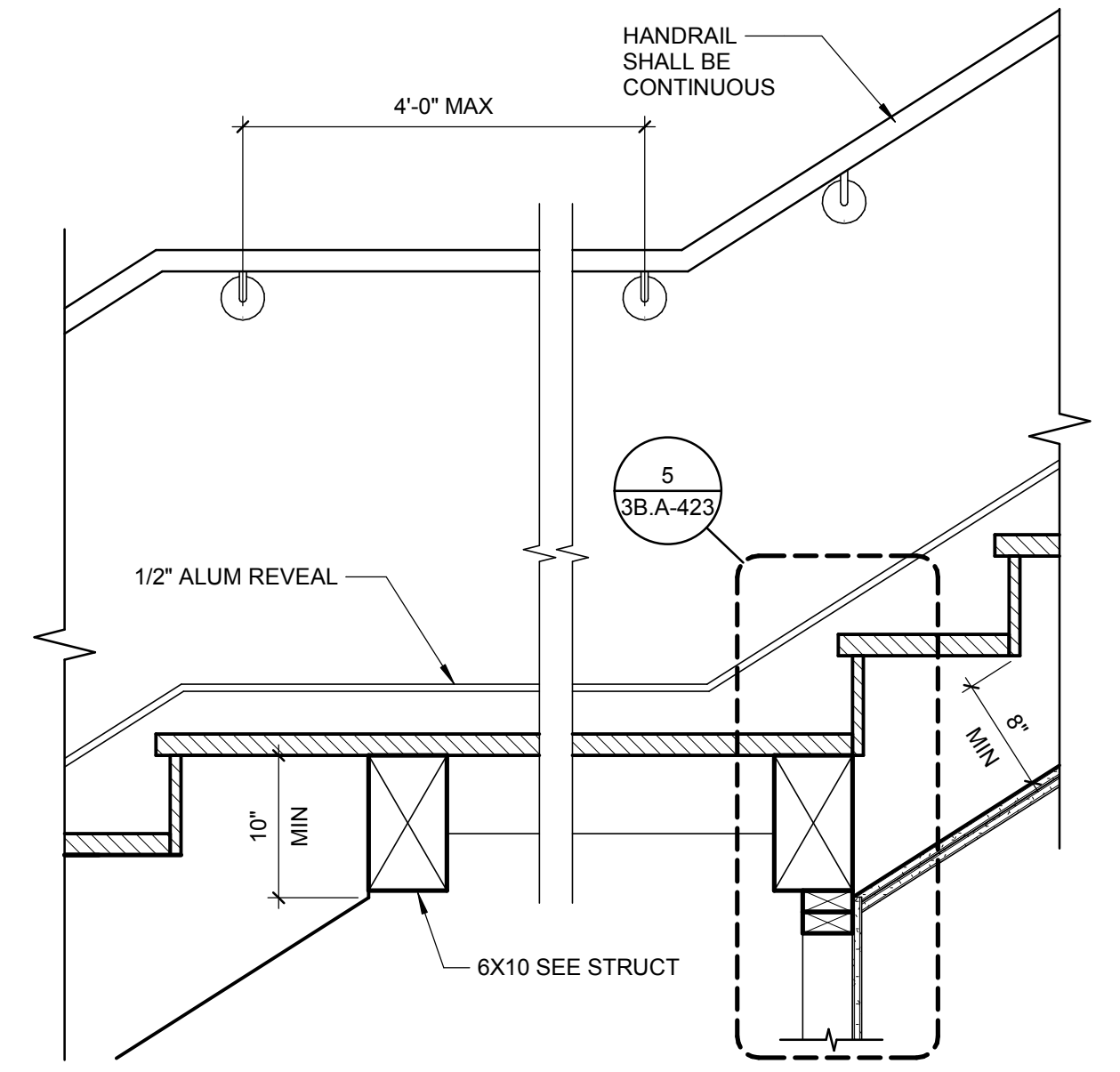
5 WALL UNDER STAIR
1" = 1'-0"



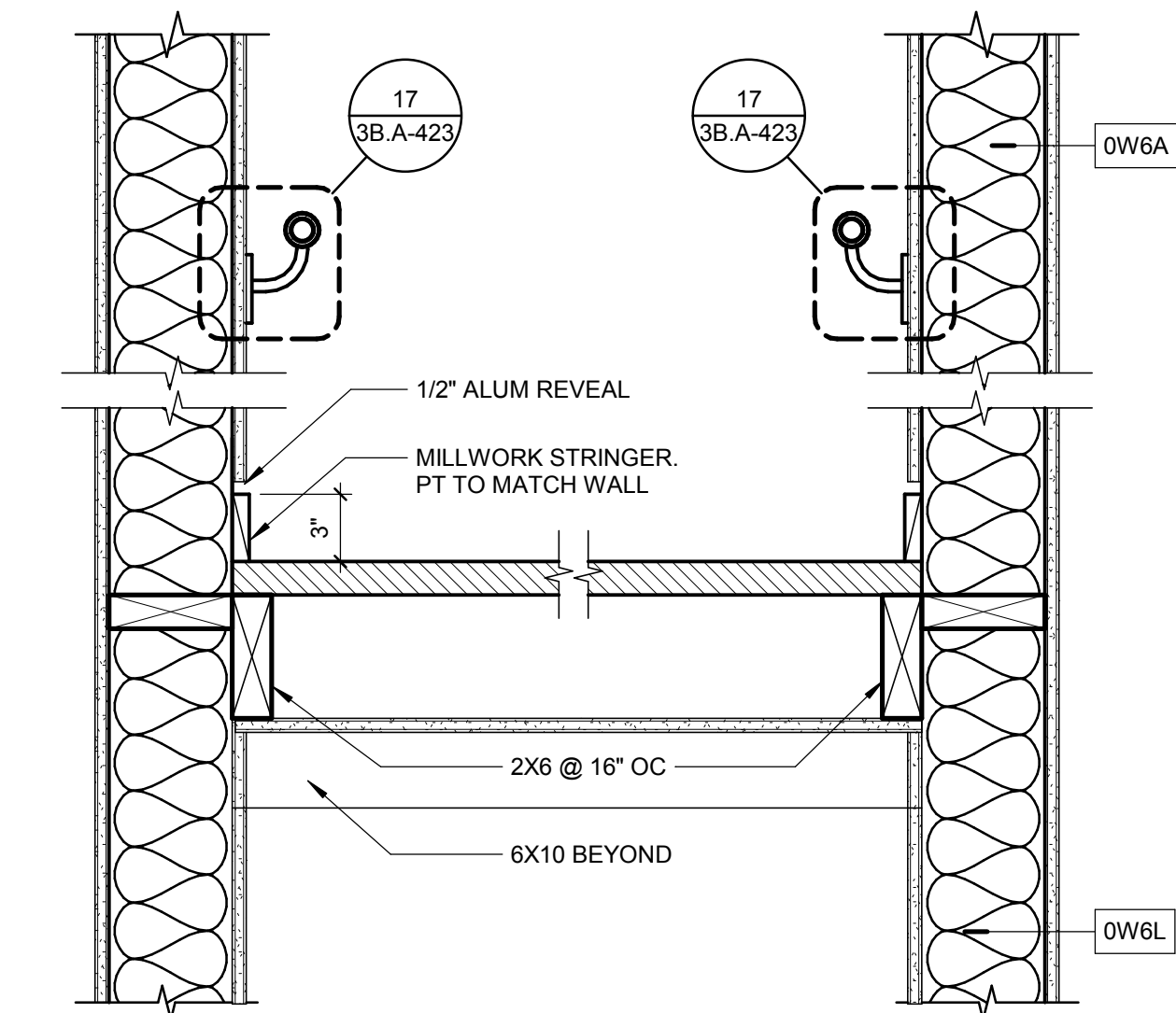
2 TYP CROSS SECTION AT TREAD
1 1/2" = 1'-0"



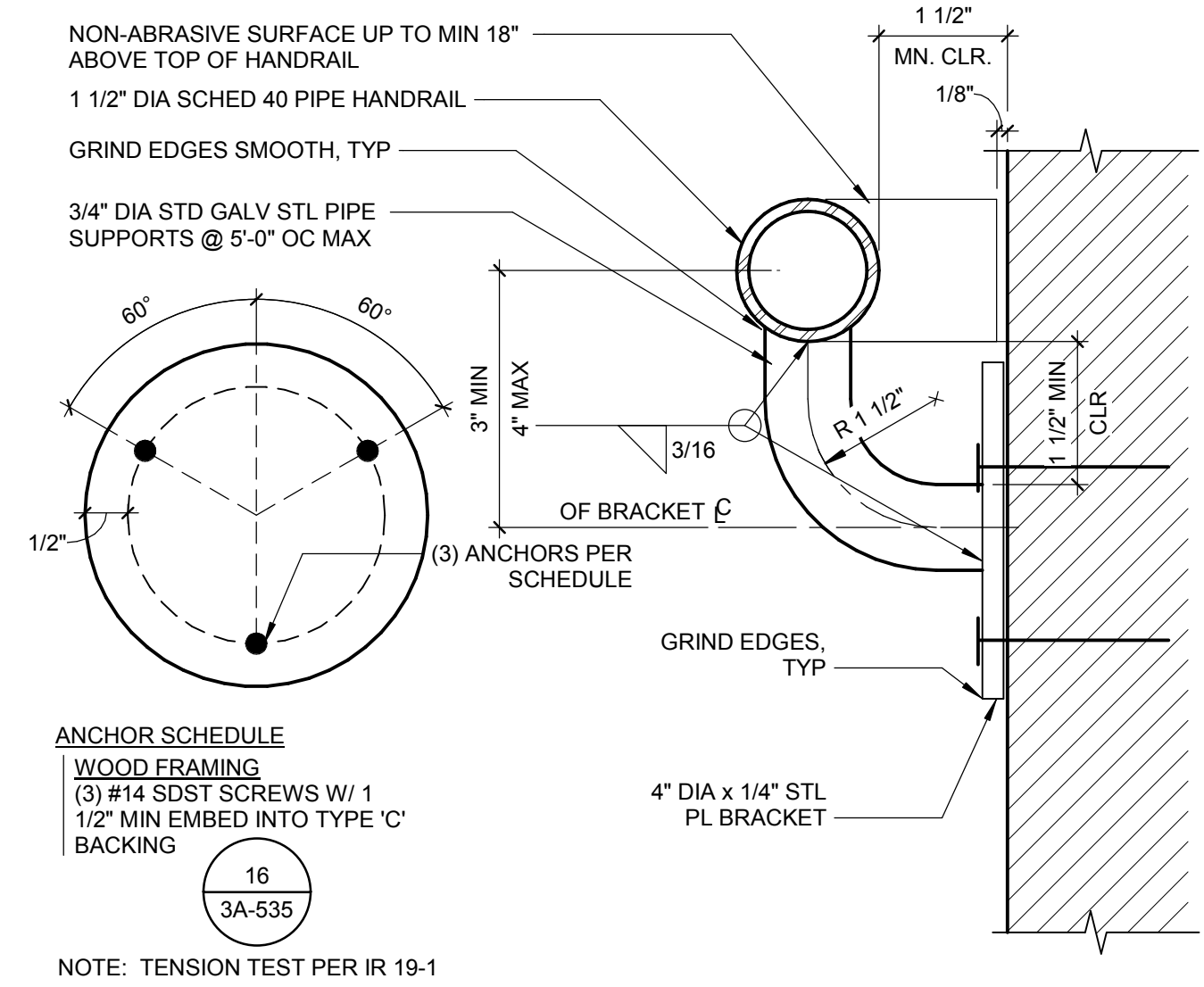
6 HANDRAIL AT TOP LANDING
1" = 1'-0"



3 HANDRAIL AT MID LANDING
1" = 1'-0"



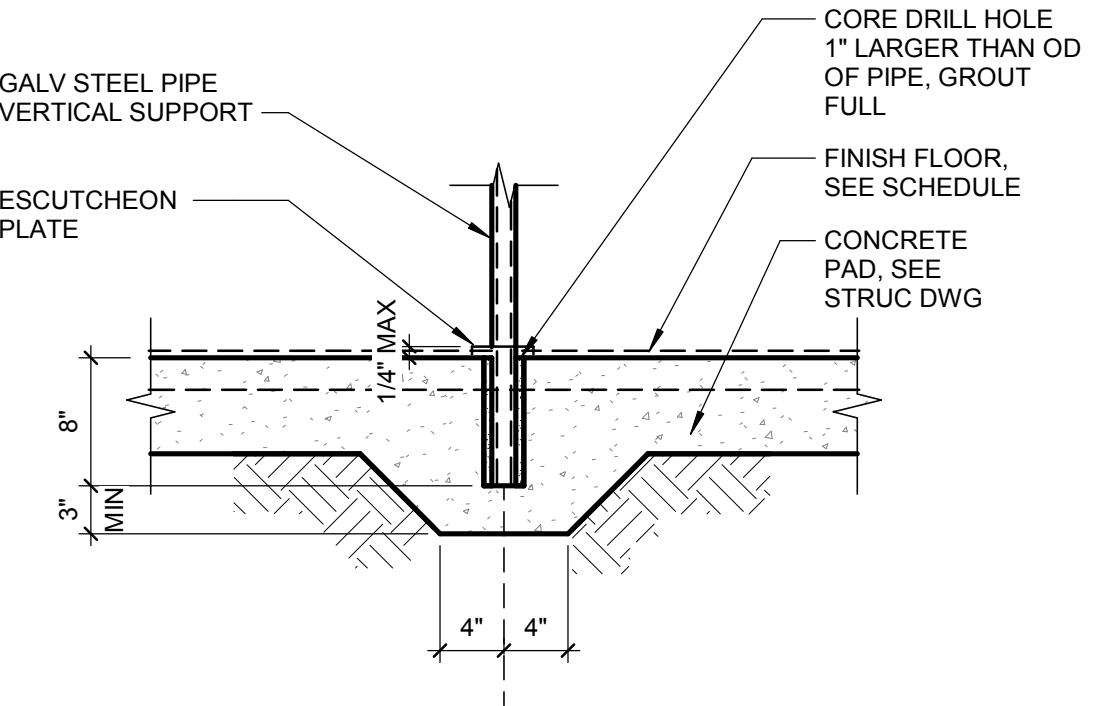
4 CROSS SECTION AT MID LANDING
1 1/2" = 1'-0"



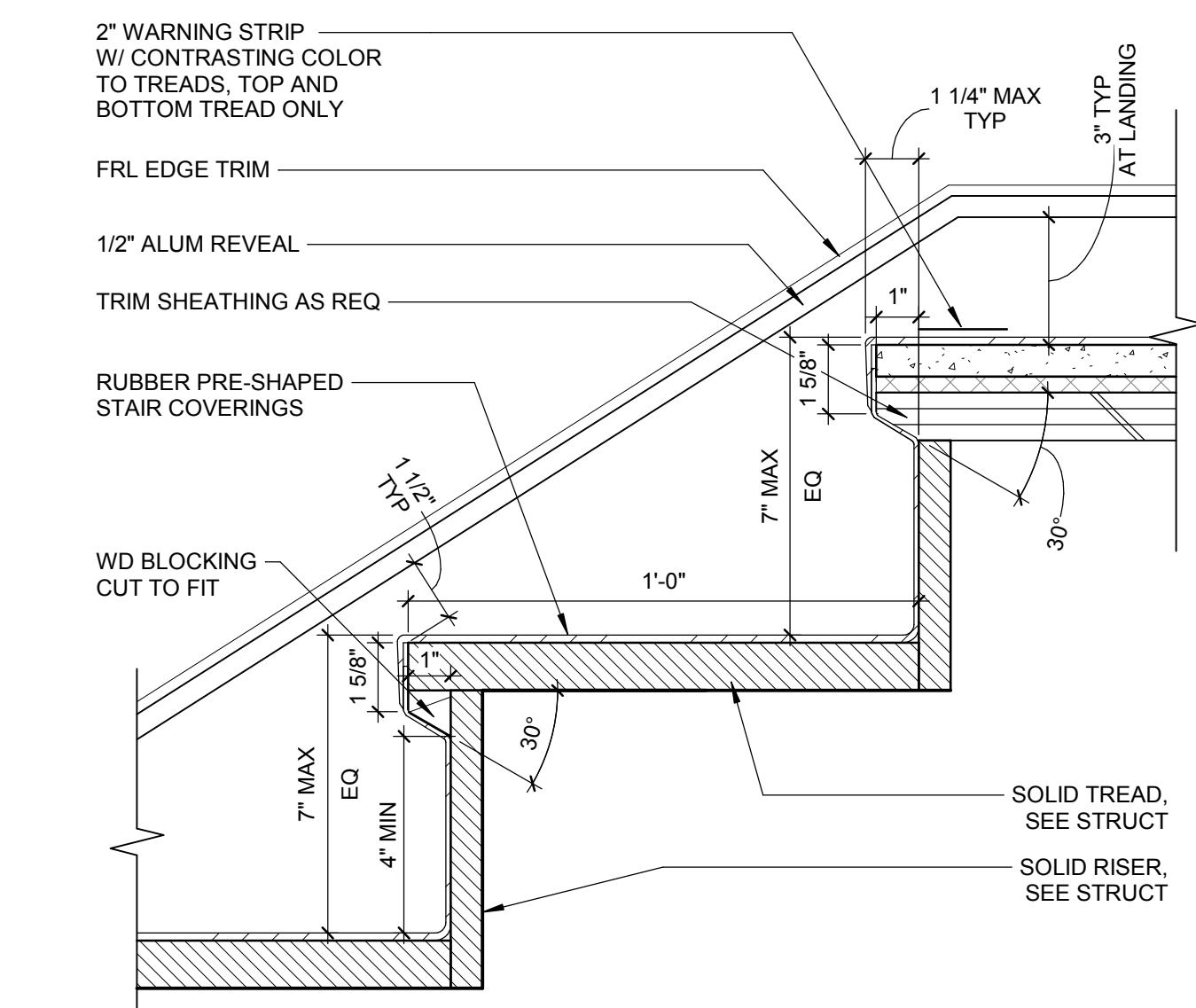
ANCHOR SCHEDULE
WOOD FRAMING
(3) #14 SDST SCREWS W/ 1 1/2" MIN EMBED INTO TYPE 'C' BACKING
16 3A-535

NOTE: TENSION TEST PER IR 19-1

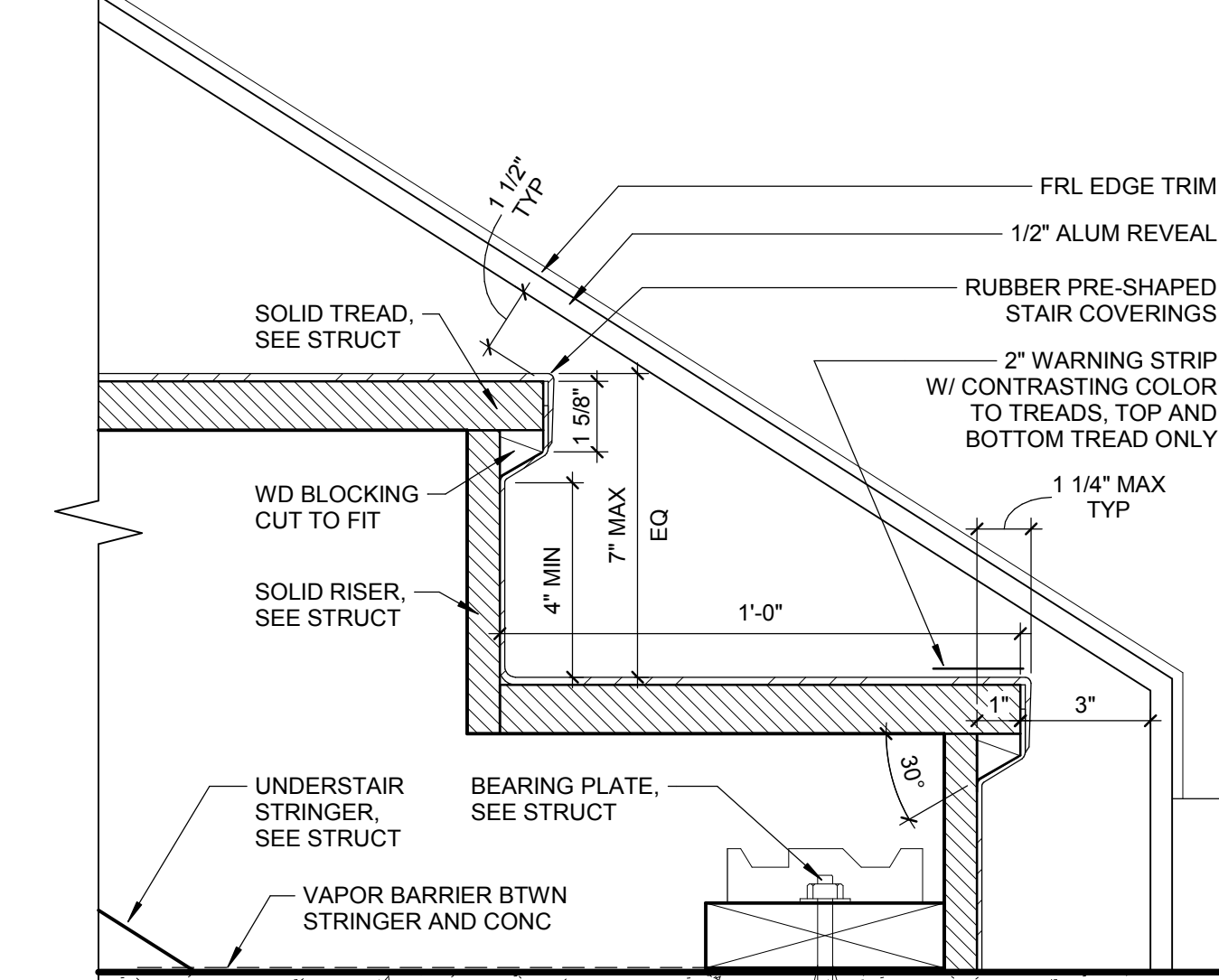
17 HANDRAIL ATTACHMENT AT WALL
6" = 1'-0"



18 HANDRAIL POST DETAIL
1" = 1'-0"



19 WOOD STAIR AT TOP LANDING
3" = 1'-0"



20 WOOD STAIR AT BASE
3" = 1'-0"

LIONAKIS

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CONSULTANT

SEAL



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	04/02/2019	BID DOCUMENTS

MANAGEMENT

LIONAKIS PROJECT NO:	015470
DSA PROJECT NO:	01-119934
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AGENCY

TITLE

BUILDING B
STAIR 1 DETAILS

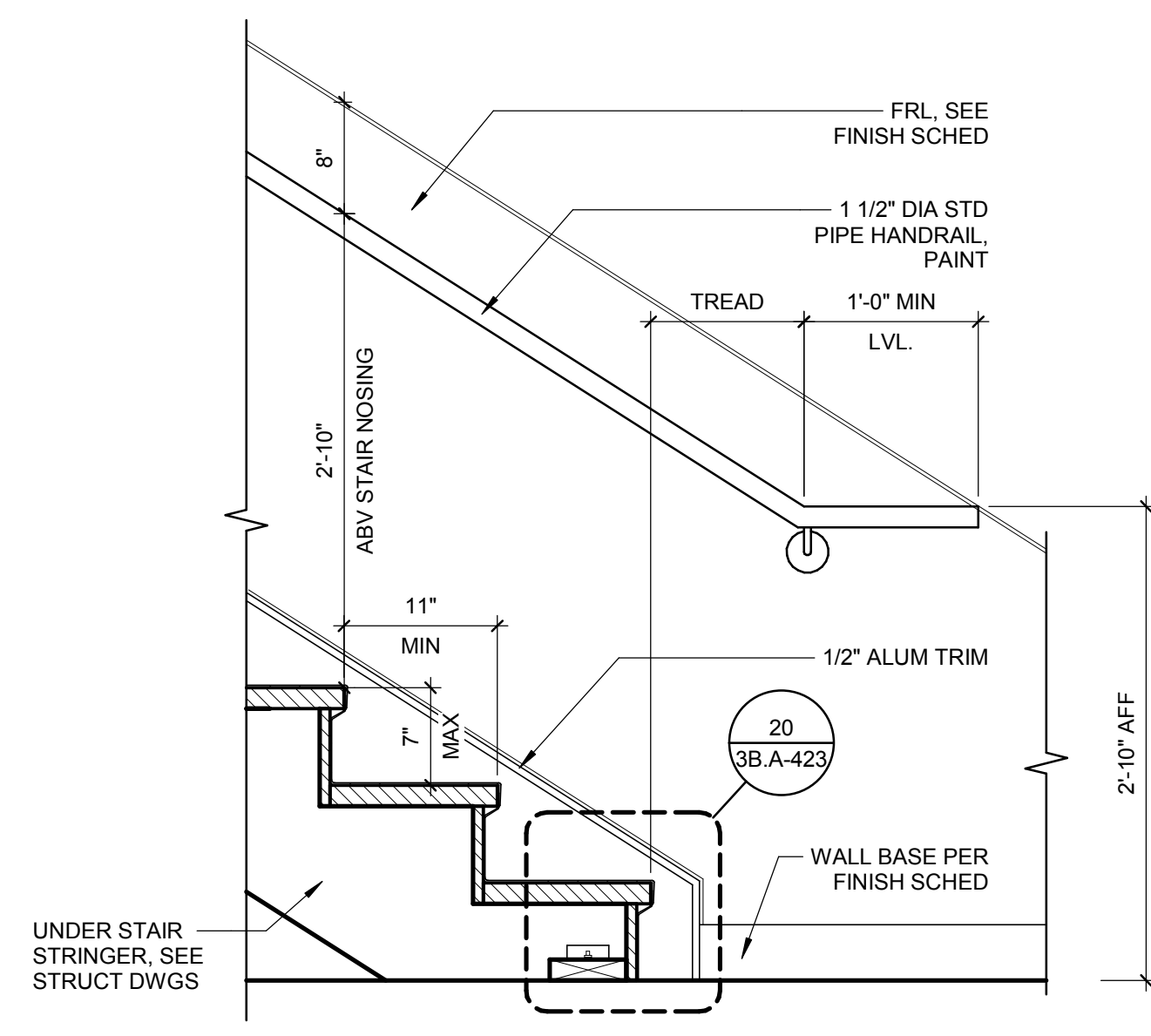
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3B.A-423

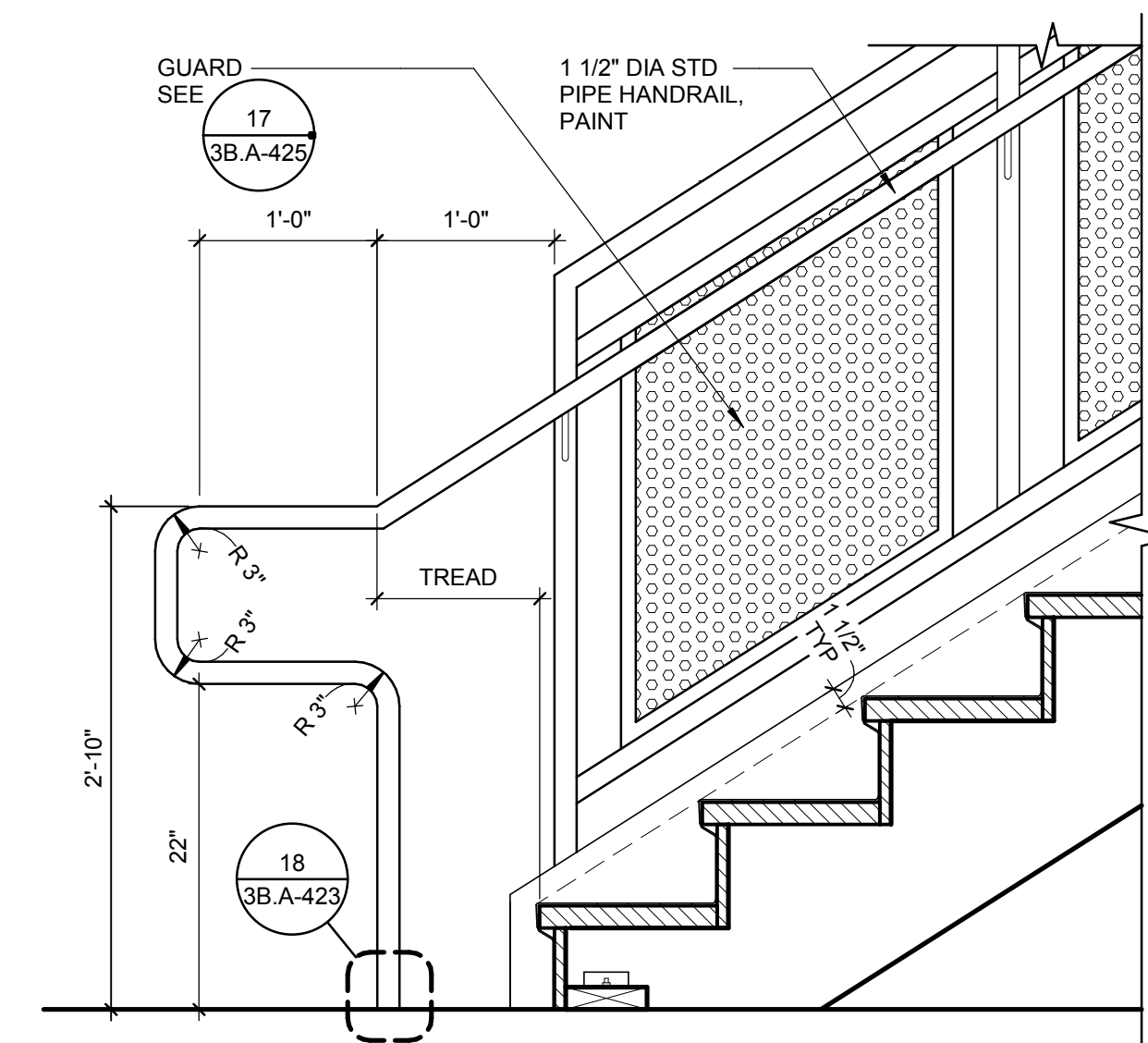
IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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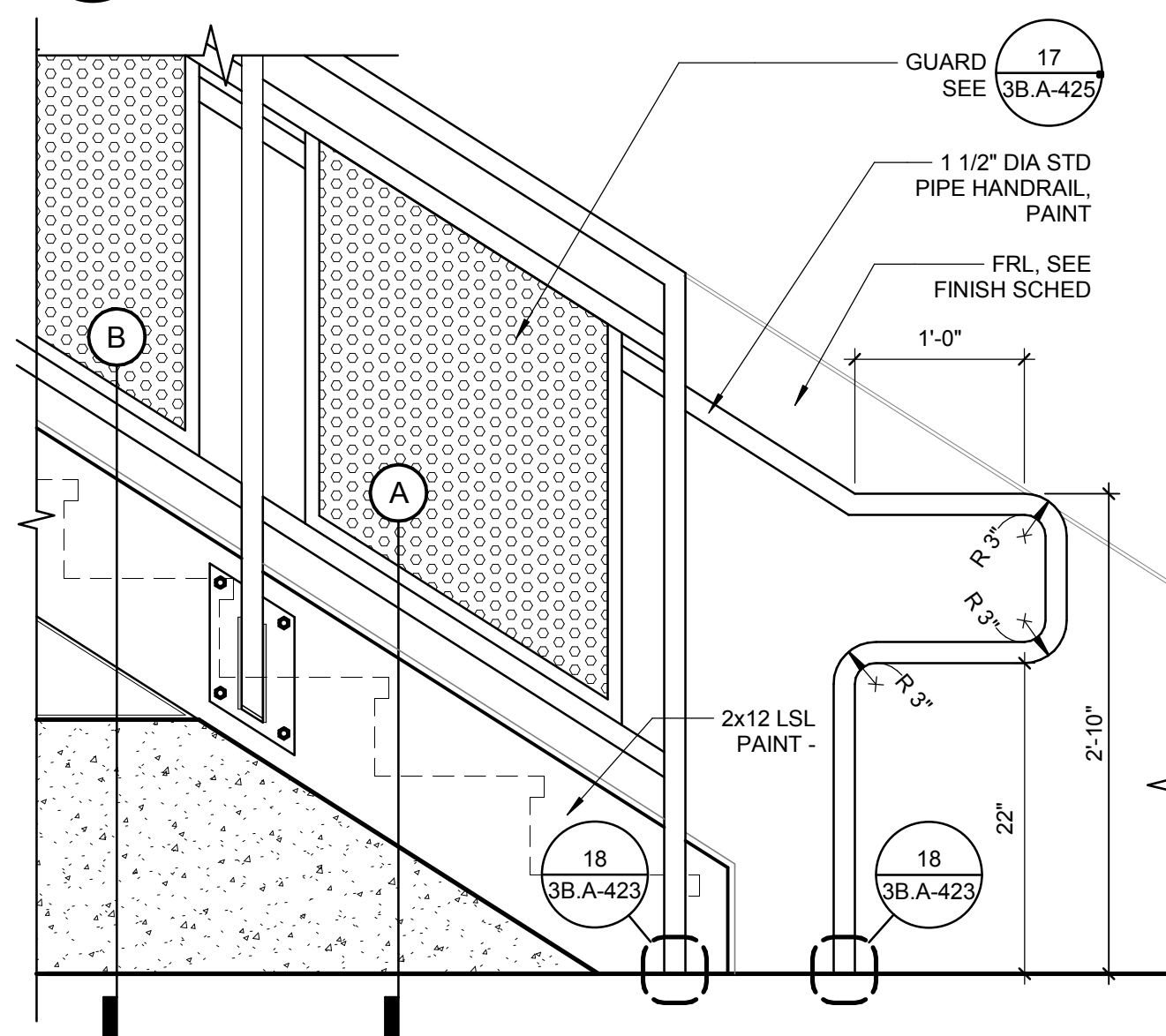
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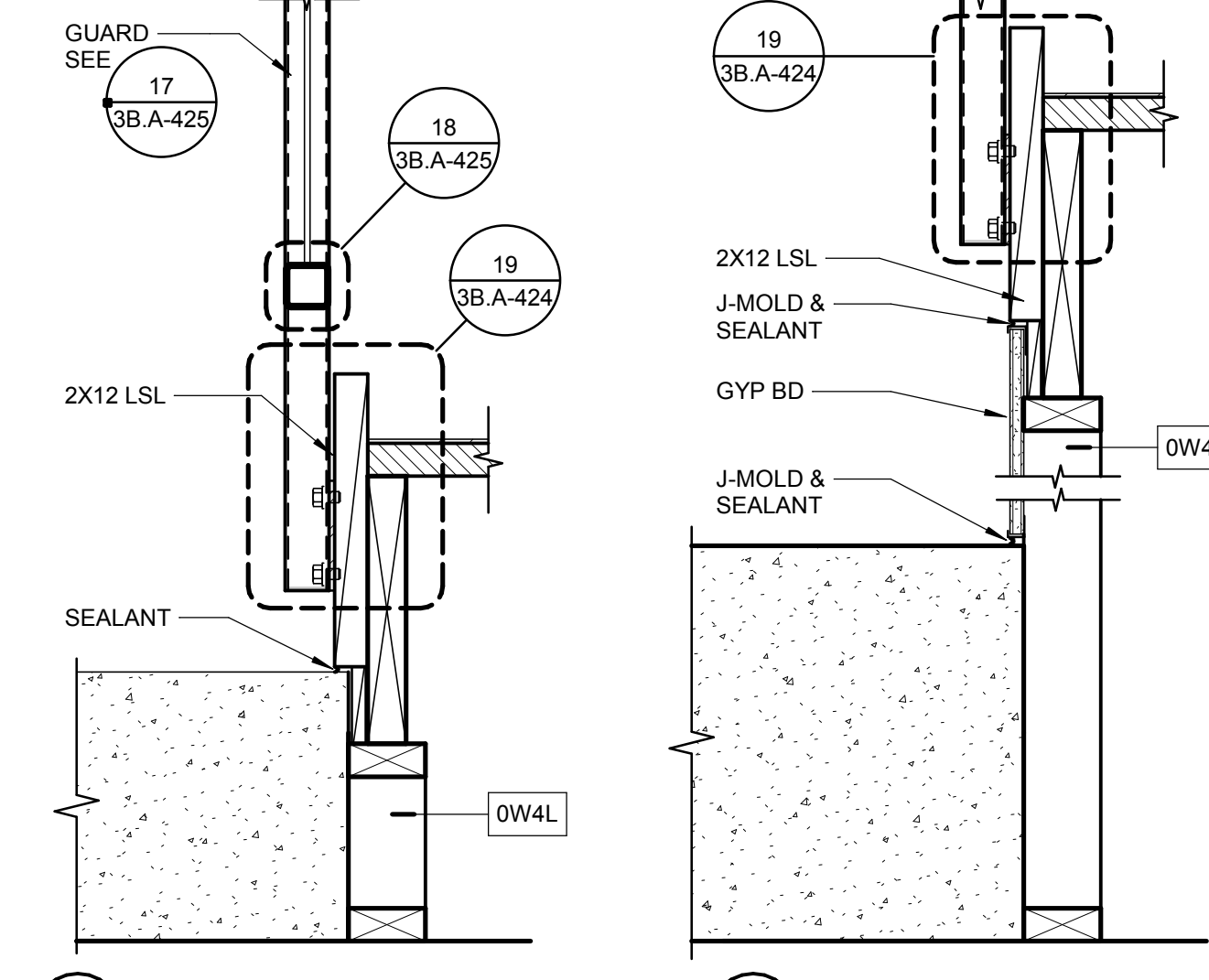
1 HANDRAIL AT FLOOR
1" = 1'-0"



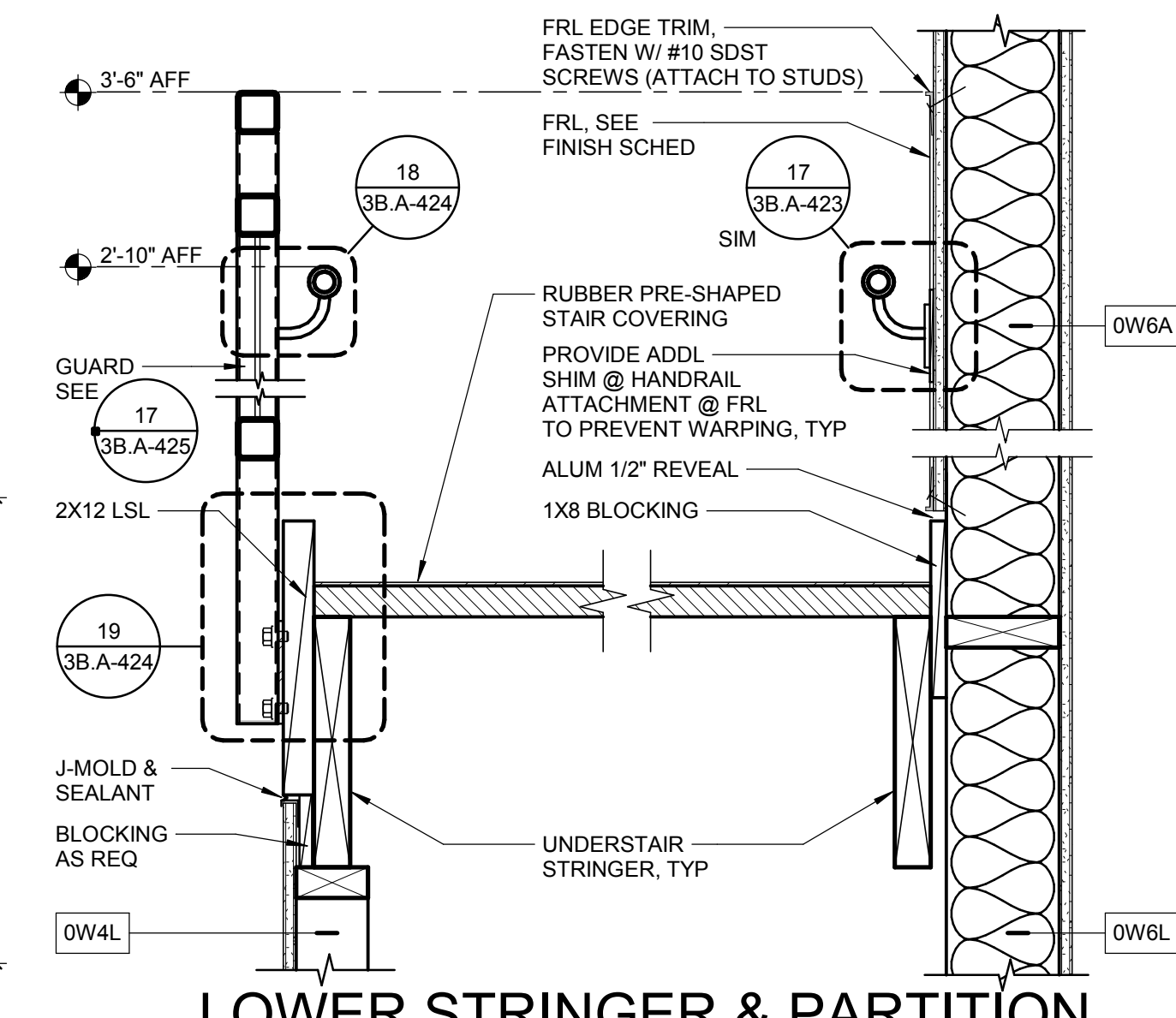
2 GUARDRAIL AT FLOOR
1" = 1'-0"



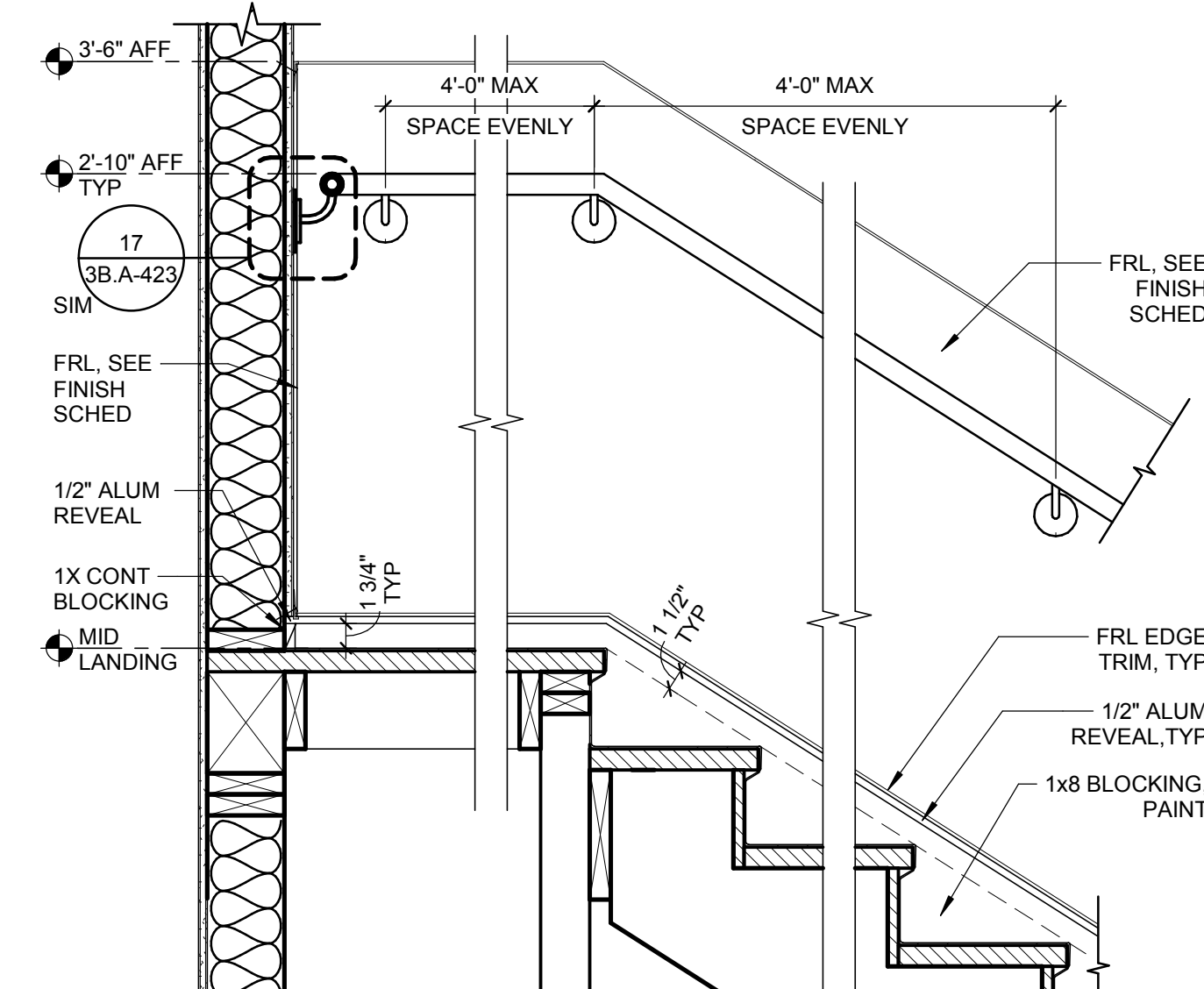
3 STRINGER AT FLOOR
1" = 1'-0"



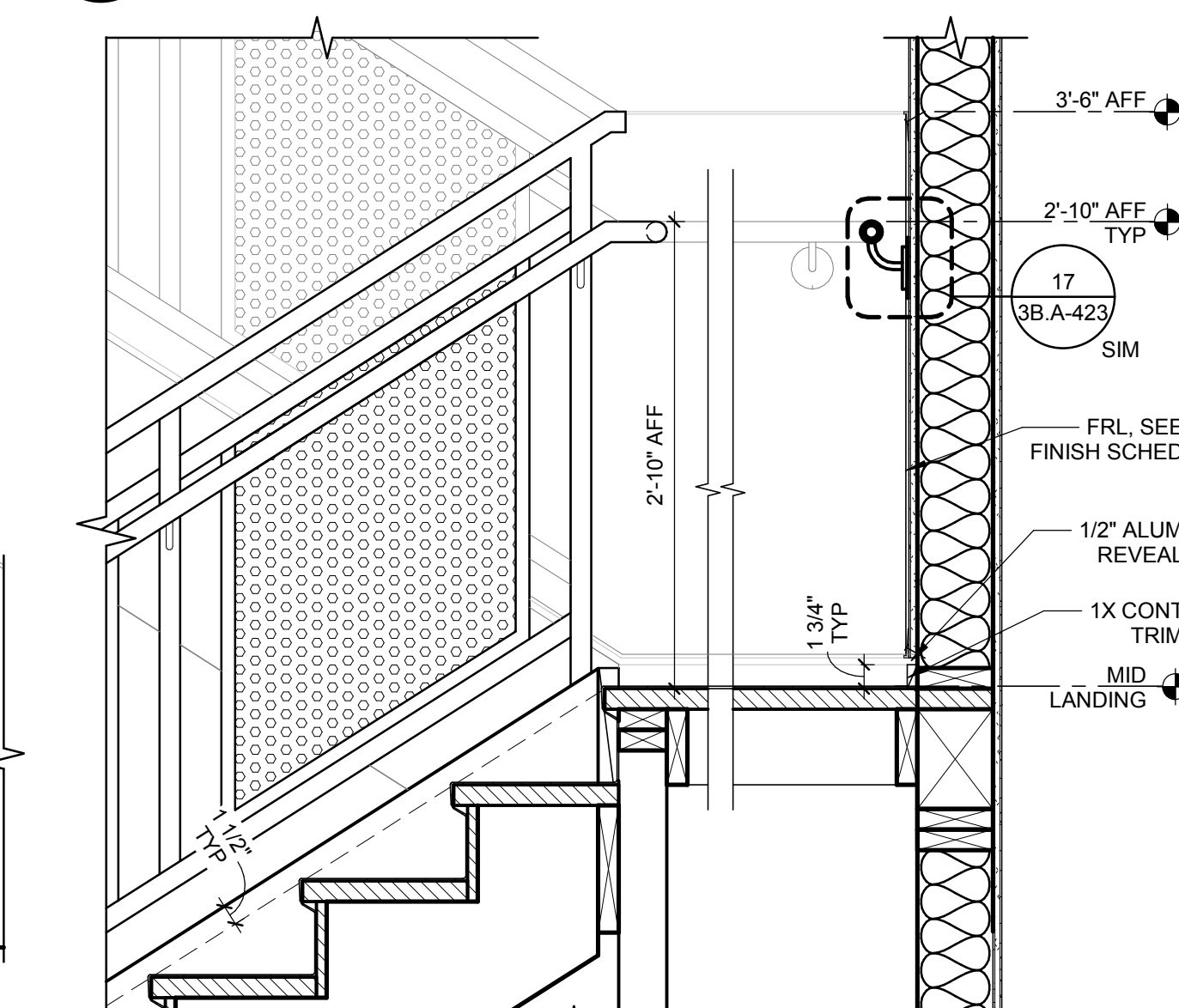
4 CONC BENCH ALONG STRINGER
1 1/2" = 1'-0"



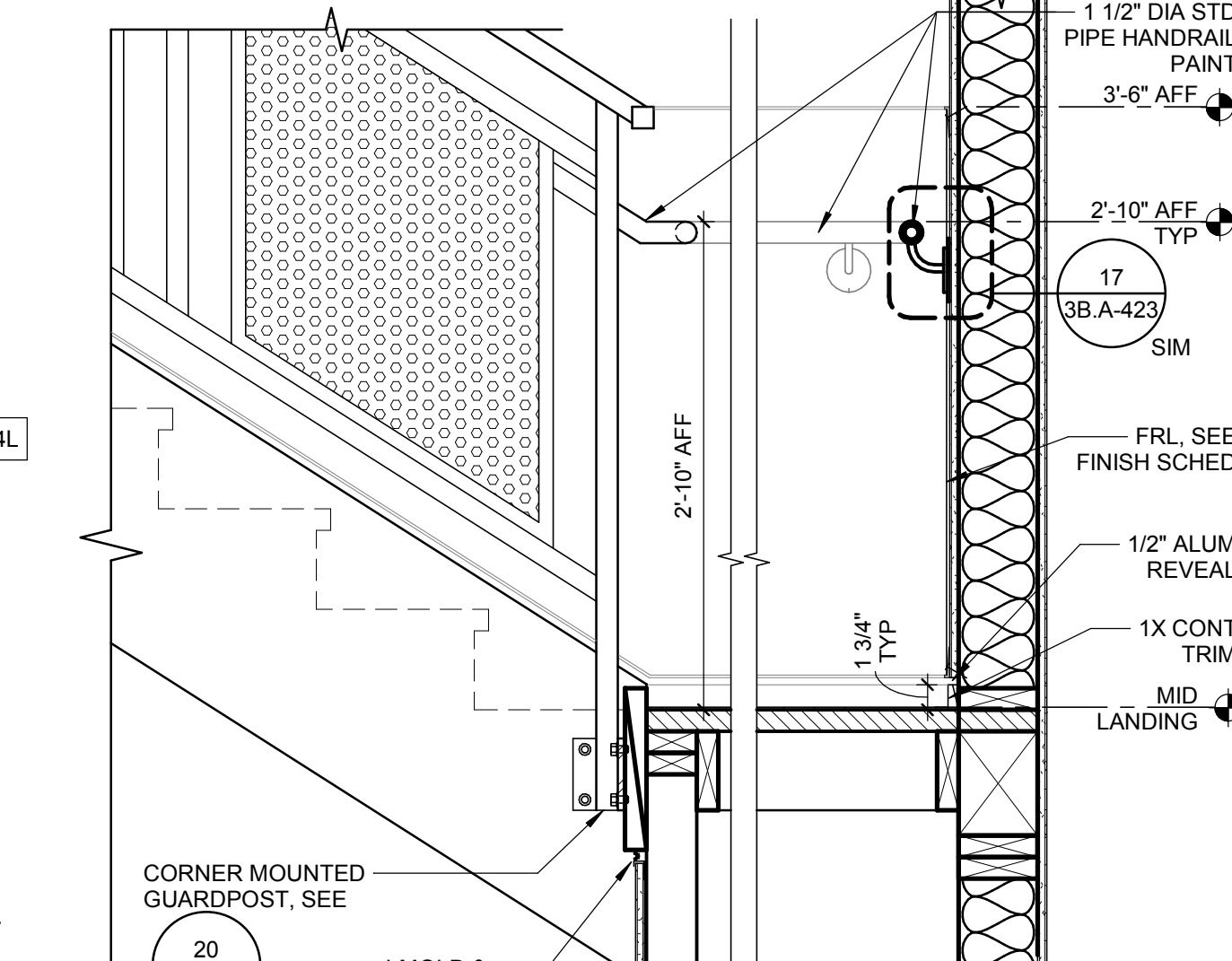
5 LOWER STRINGER & PARTITION
1 1/2" = 1'-0"



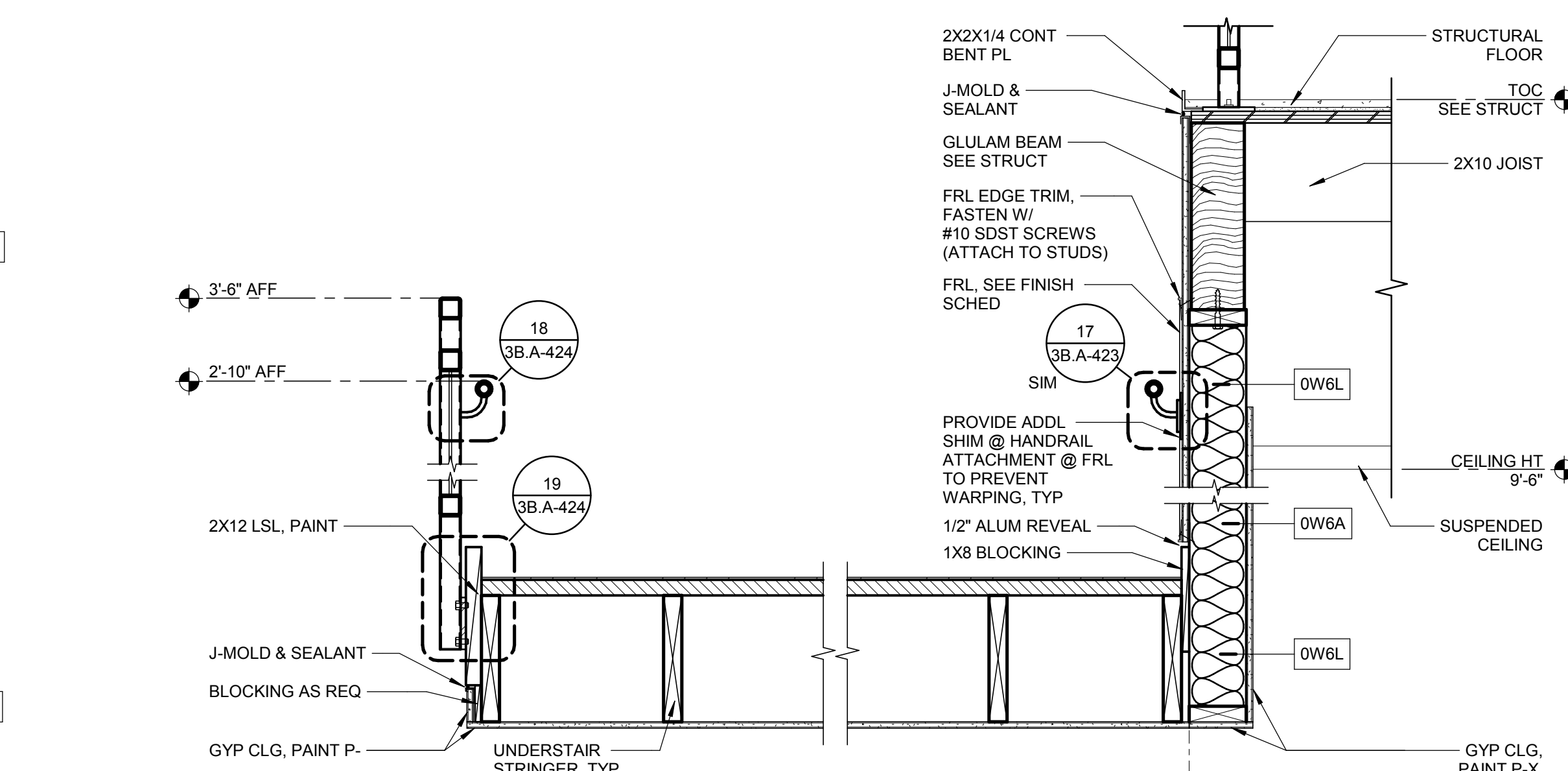
6 WALL MTD HANDRAIL @ LANDING
1" = 1'-0"



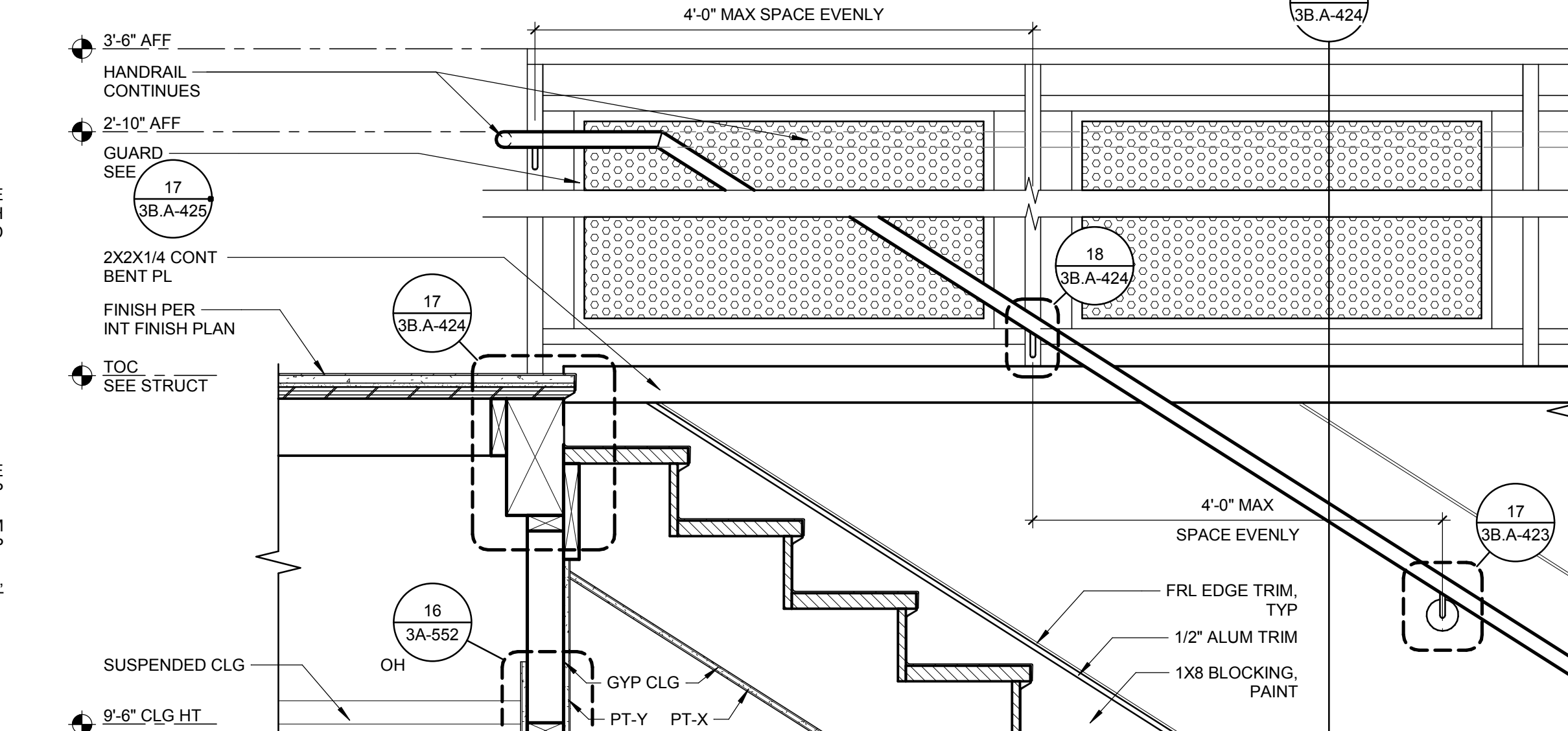
7 GUARDRAIL @ LANDING
1" = 1'-0"



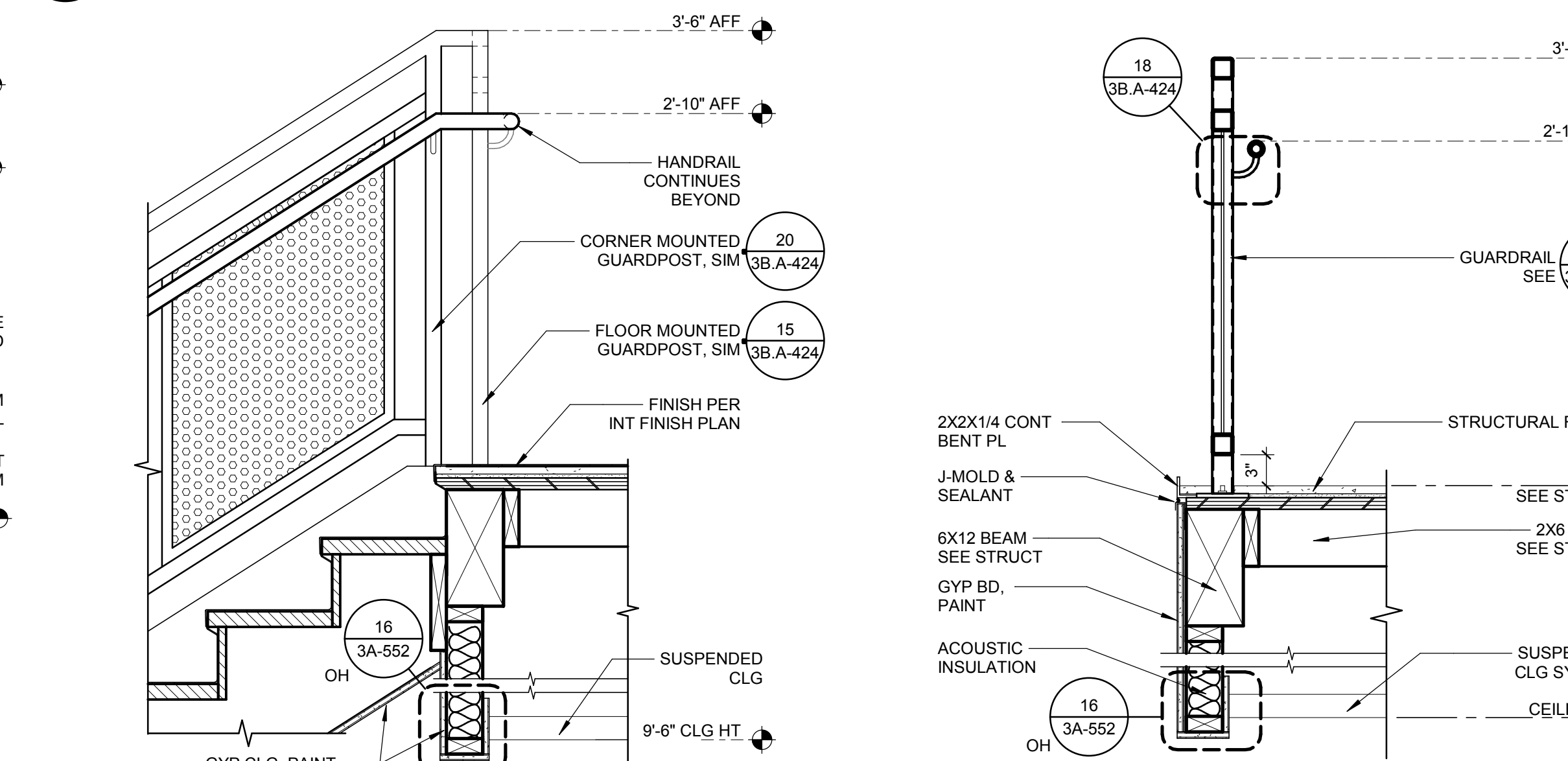
8 STRINGER CONT. @ LANDING
1" = 1'-0"



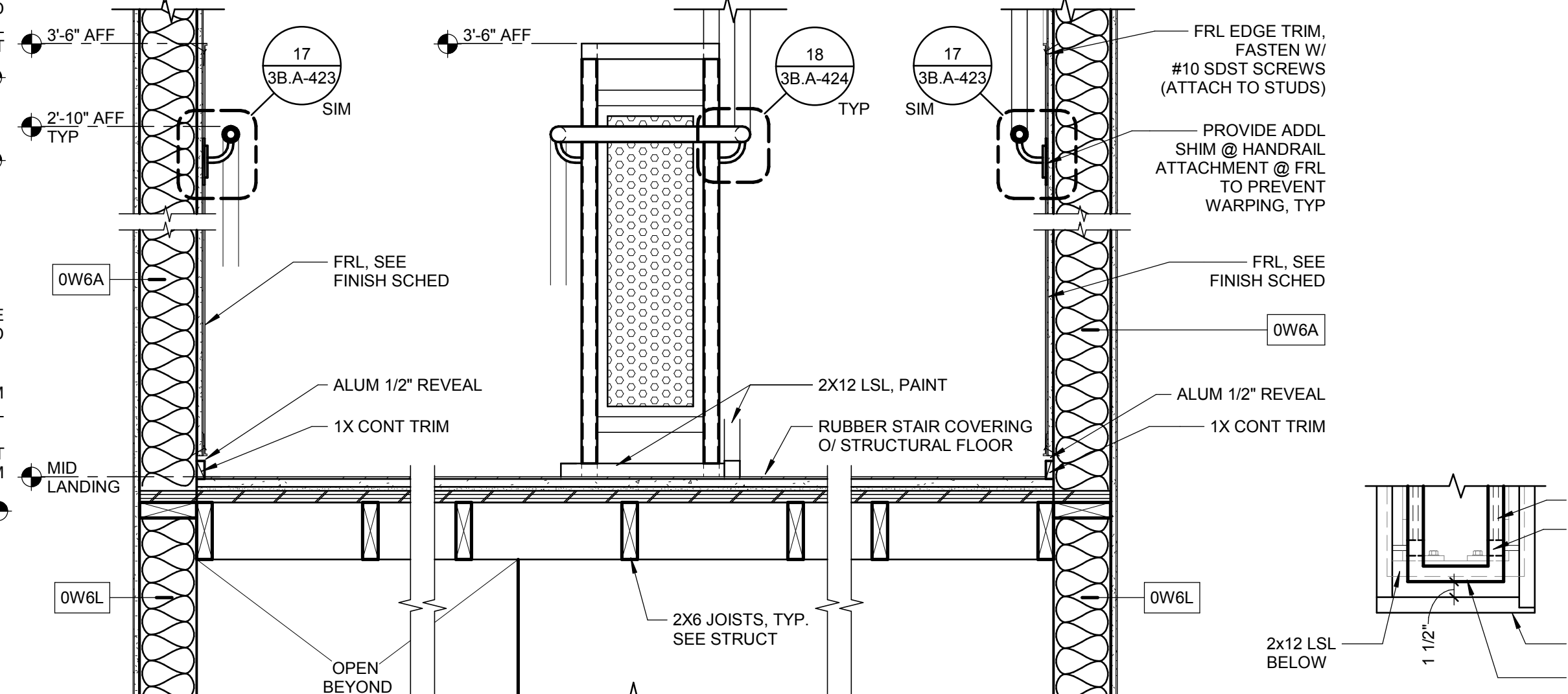
9 UPPER PARTITION AND STRINGER DETAIL
1" = 1'-0"



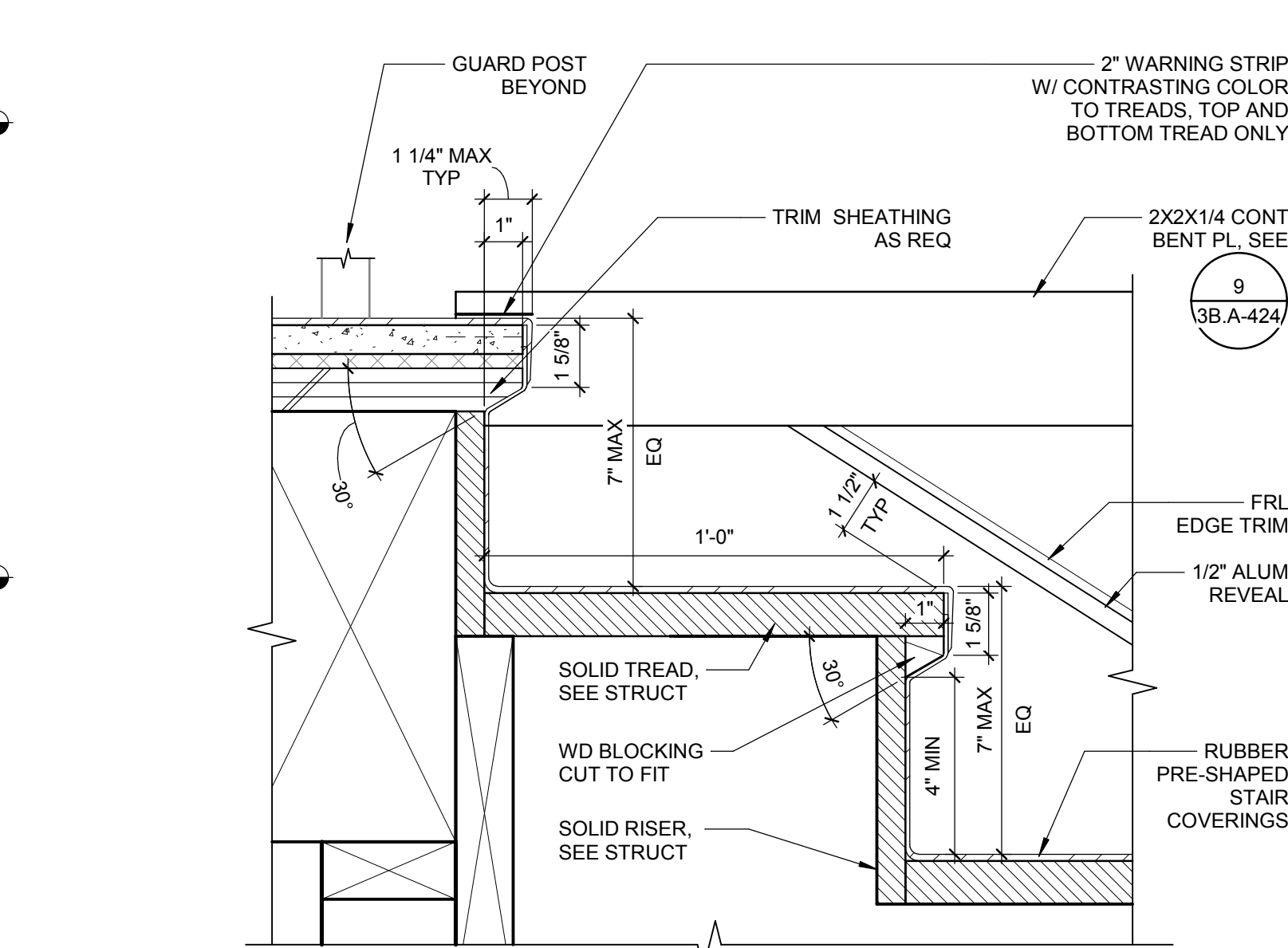
10 WALL MTD HANDRAIL @ LANDING
1" = 1'-0"



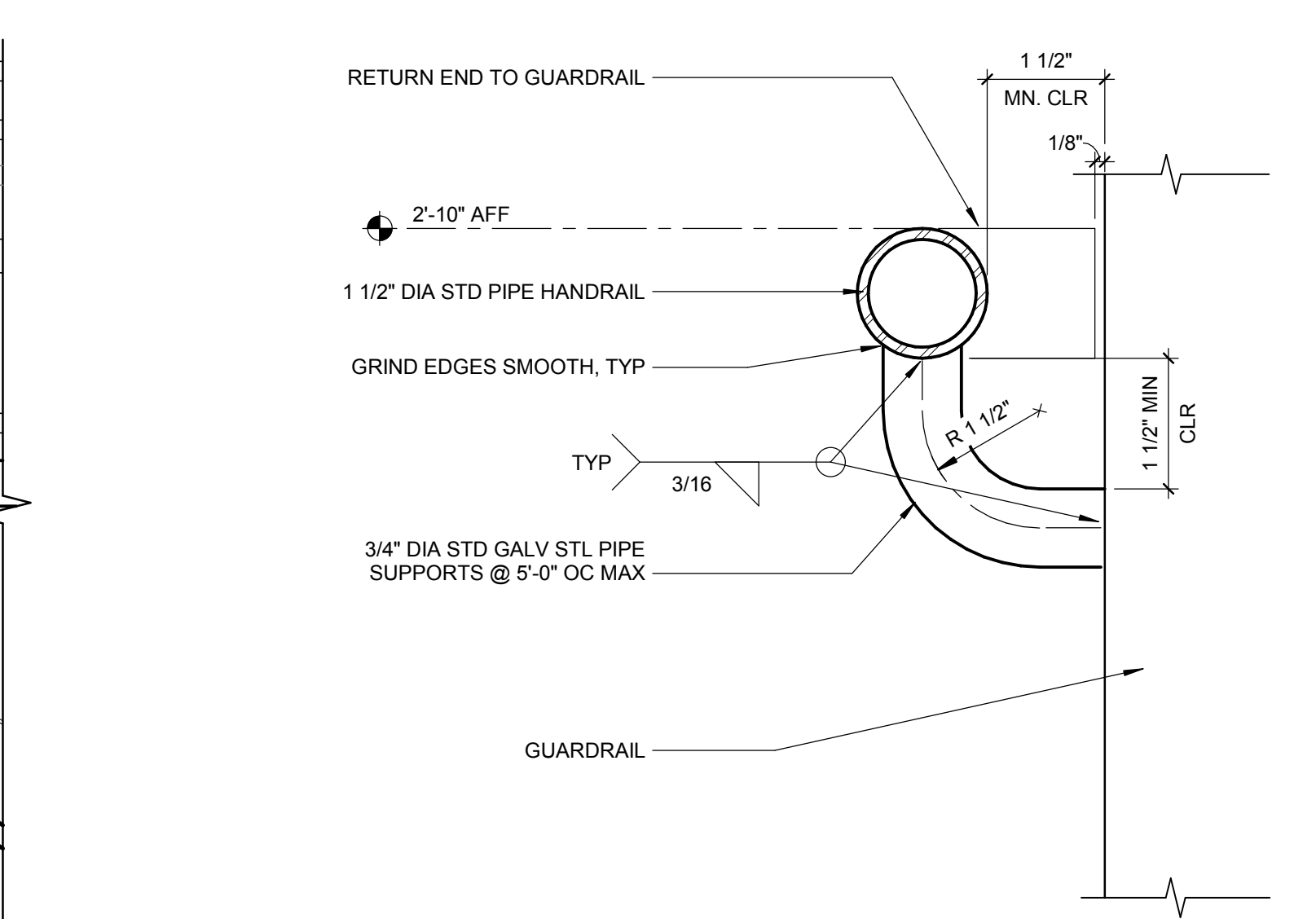
11 WALL MTD HANDRAIL @ LANDING
1" = 1'-0"



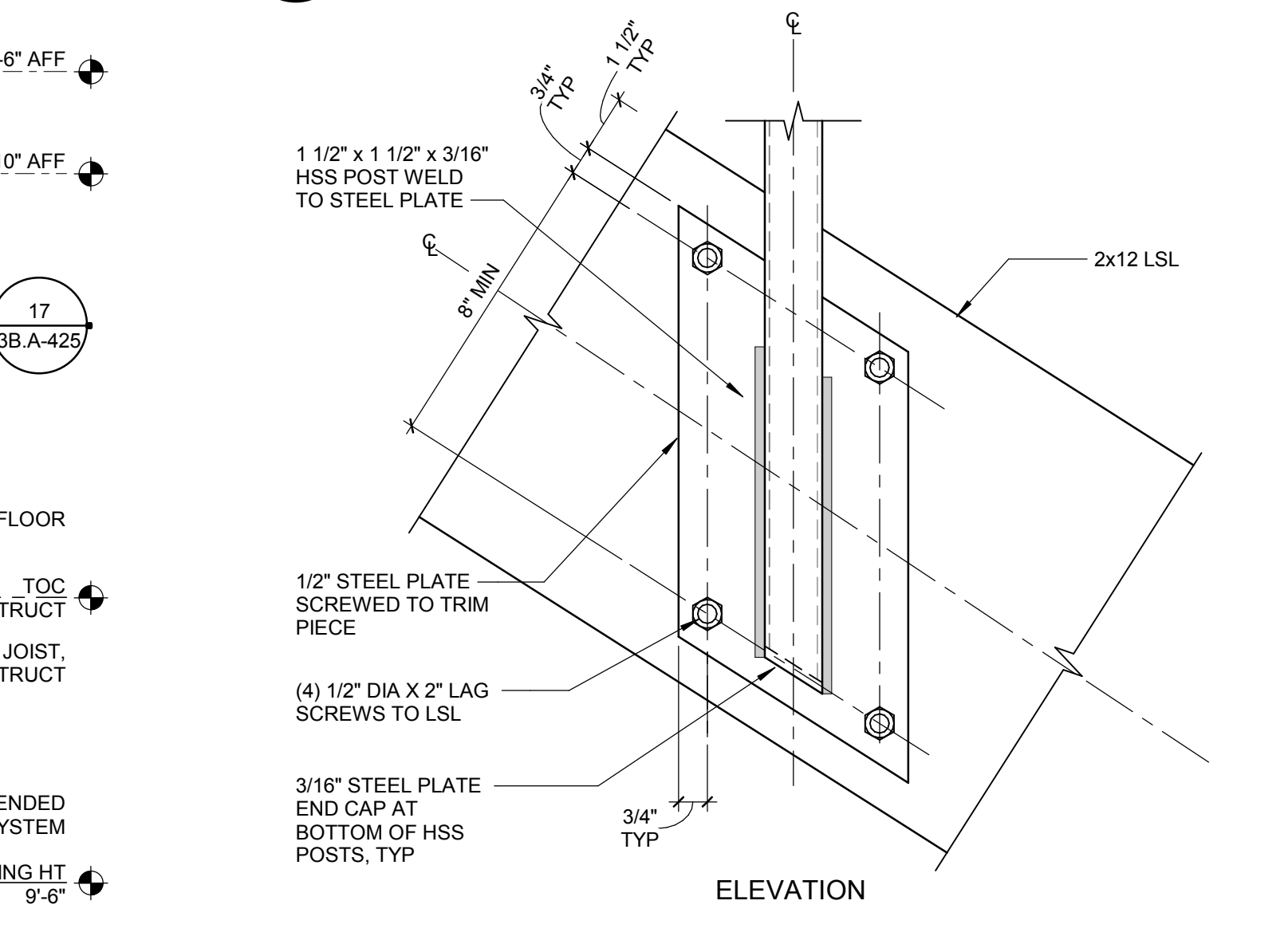
12 CROSS SECTION @ STAIR 2 LANDING
1" = 1'-0"



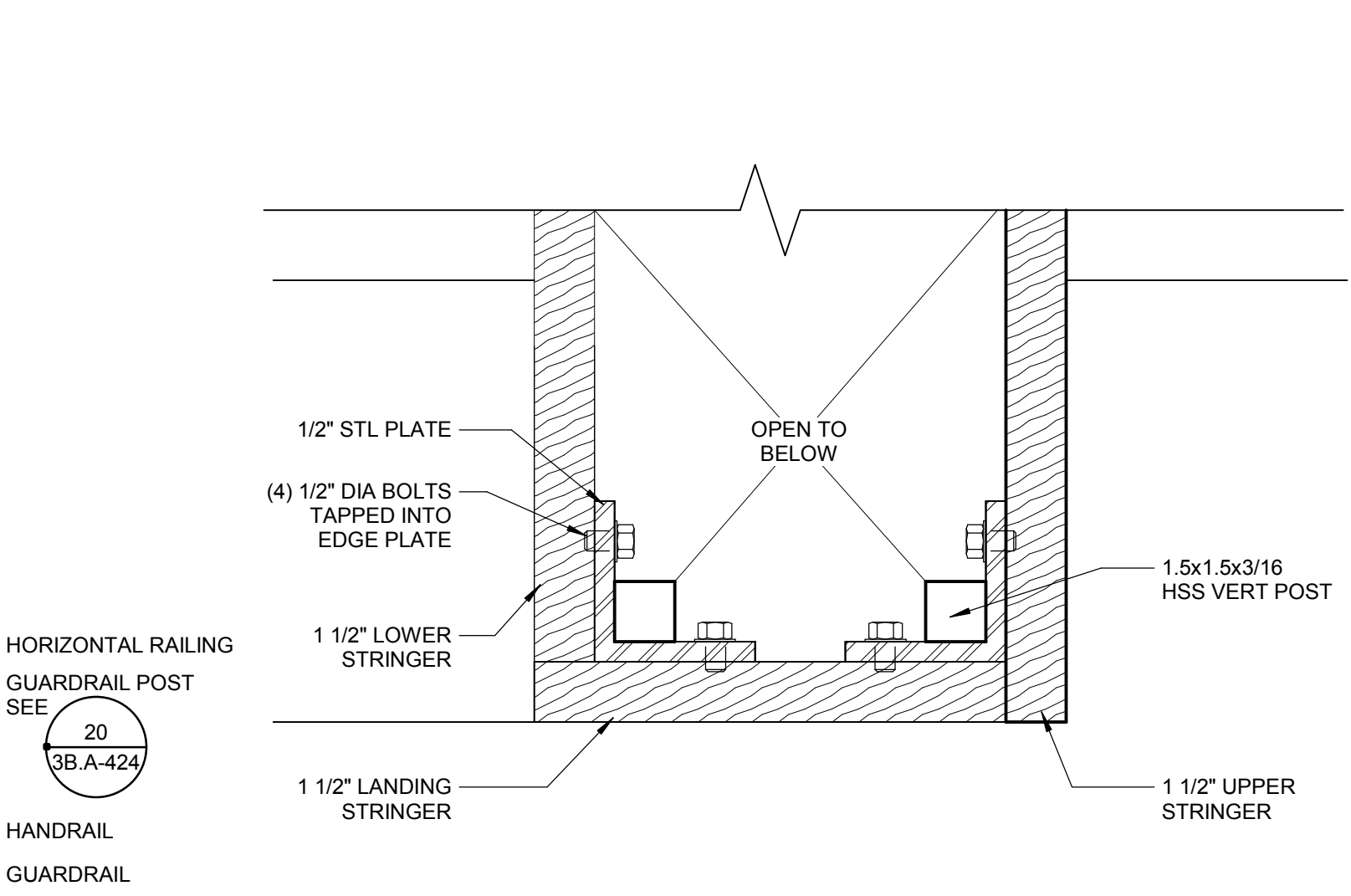
17 WOOD STAIR AT TOP LANDING
3" = 1'-0"



18 HANDRAIL ATTACHMENT AT
GUARDRAIL
6" = 1'-0"



19 STAIR 2 GUARD SIDE MOUNT
3" = 1'-0"



20 GUARDRAIL CORNERPOST
3" = 1'-0"

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CONSULTANT



PROJECT
HARDER ELEMENTARY SCHOOL
INCREMENT #3

495 WYETH ROAD
HAYWARD, CA 94544

CLIENT
HAYWARD UNIFIED SCHOOL DISTRICT

24411 AMADOR STREET
HAYWARD, CA 94544

ISSUED	MARK	DATE	DESCRIPTION
		03/18/2019	DSA SUBMITTAL
		04/02/2019	BID DOCUMENTS

MANAGEMENT	LIONAKIS PROJECT NO:	015470
	DSA PROJECT NO:	01-119934
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AGENCY

TITLE
BUILDING B
STAIR 2 DETAILS

SHEET

3B.A-424

SECTION 07 46 46
FIBER CEMENT SIDING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Furnishing and installation of the following fiber-reinforced cement exterior products and accessories as shown on the Drawings and as specified herein:
 - 1. Siding panels.
 - 2. Trim.
 - 3. Related accessories and fasteners.

1.2 RELATED SECTIONS

- A. Section 06 10 00 – Rough Carpentry.
- B. Section 07 25 00 – Weather Barriers: Building wrap and flexible flashings.
- C. Section 07 92 00 – Joint Sealants.

1.3 REFERENCES

- A. The publications listed below form a part of this Section to the extent referenced. The publications are referred to in the text by the basic designation only. Refer to Division 01 for definitions, acronyms, and abbreviations.
- B. Standards, manuals, and codes refer to the latest edition of such standards, manuals, and codes in effect as of the date of issue of this Project Manual, unless indicated otherwise in CBC Chapter 35 and CFC Chapter 80.
- C. Referenced Standards:
 - 1. ASTM C518 – Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
 - 2. ASTM C1185 – Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards.
 - 3. ASTM C1186 – Standard Specification for Flat Fiber-Cement Sheets.
 - 4. ASTM E84 – Standard test for Surface Burning Characteristics of Building Materials.
 - 5. ASTM E119 – Standard Test Methods for Building Construction and Materials.
 - 6. ASTM E228 – Standard Test Method for Linear Thermal Expansion of Solid Materials With a Push-Rod Dilatometer.
 - 7. ASTM E330 – Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
 - 8. ASTM E331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference.
 - 9. UL 723 – Test for Surface Burning Characteristics of Building Materials.

1.4 SUBMITTALS

- A. Submit product data under provisions of Division 01.
- B. Submit three 12 inch long pieces of each material specified in this Section, illustrating thickness, width, and texture.
- C. Submit manufacturer's installation instructions, specifications, and other pertinent manufacturer's literature under provisions of Division 01.
- D. Submit documents certifying that products meet or exceed specified requirements.

1.5 COMPLIANCE

- A. Siding and trim shall meet or exceed the requirements of the following:
 - 1. ICC Evaluation Service, Inc. (ICC-ES) Evaluation Report No. ESR-1694.
 - 2. ICC-ES Legacy Report No. 5915.

1.6 QUALITY ASSURANCE

- A. Installers of products specified in this Section shall be approved and certified by the manufacturer. Installers shall be certified at the time this project is being bid.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Fiber-cement siding and trim shall be laid flat on smooth, level surface. Edges and corners shall be protected from chipping. Store siding under cover and keep dry prior to installing.
- B. Handling: Panels must be carried on edge.
- C. Replacements: In the event of damage, immediately make all repairs and replacements acceptable to the Architect and at no additional cost to the Owner.

1.8 WARRANTY

- A. Warranty against material manufacturing defects as follows:
 - 1. Panels and Trim: Manufacturer's 15-year warranty against manufacturing defects in fiber cement panels.
 - 2. Finish: Manufacturer's 15-year warranty against manufacturing defects in panel finish.

PART 2 PRODUCTS

2.1 MANUFACTURERS AND PRODUCTS – SIDING AND TRIM

- A. Basis-of-Design: Nichiha Corporation. Products:
 - 1. VintageWood Series AWP-1818 siding panels for horizontal installation.
 - 2. Illumination Series AWP-3030 siding panels for vertical installation.
 - 3. Corner trim.
- B. No known equal.
- C. Substitutions: Under provisions of Division 01.

2.2 MATERIALS

- A. Non-asbestos fiber-cement siding shall comply with ASTM C1185 or ASTM C1186 Type A, Grade II.
 - 1. Panels shall be manufactured from a pressed, stamped, and autoclaved mix of Portland cement, fly ash, silica, recycled fiber cement panel rejects, and wood fiber bundles.
 - 2. Siding panel surface shall be pre-finished and machine-applied.
 - 3. Siding panels shall be profiled along all four edges such that horizontal joints and vertical joints between installed panels are ship-lapped.
 - 4. Siding panel top and right side edges shall have factory-applied sealant gasket; all joints shall have factory sealant.
- B. Fiber-cement siding shall be non-combustible when tested in accordance with ASTM E84, ASTM E119 and UL 723.
 - 1. Flame Spread: 0.
 - 2. Smoke Developed: 0.

2.3 SIDING PANELS

- A. Surface Texture and Pattern:
 - 1. VintageWood: Wood grain texture with 3/8 inch grooves spaced at 5-5/8 inch centers.
 - 2. Illumination: Smooth texture, without score lines.
- B. Dimensions:
 - 1. VintageWood: 17-7/8 inches high x 71-9/16 inches long x 5/8 inch thick.
 - 2. Illumination: 17-7/8 inches high x 119-5/16 inches long x 5/8 inch thick

2.4 TRIM

- A. Outside Corner Trim: One piece, L-shaped fiber-cement.
 - 1. Surface Texture: Match siding panel texture.
 - 2. Face Width: 3-1/2 inches.
 - 3. Thickness: 5/8 inch.

2.5 FINISH

- A. Siding and Trim Finish: Prefinished, factory applied; colors as selected by Architect.

2.6 SUPPORT SYSTEM

- A. Steel Clip System:
 - 1. Starter Track:
 - a. Horizontal Panel Installations: FA 100B, 10 feet long, galvalume.
 - b. Vertical Panel Installations (10 foot panels only): FA 300T, 6.5 feet long, galvalume.
 - 2. Panel Clips: JE 550 (5mm rainscreen), 400 series stainless steel.
 - 3. Joint Clips: Short: JEJ 555; Long: JEL 551 (5mm), 400 series stainless steel.

4. Corner Clips (for use with manufactured corners): JE 550C (5mm), 400 series stainless steel.
5. Single Flange Sealant Backer: FHK 1110 (5mm), 6.5 feet long, fluorine coated galvalume.
6. Double Flange Sealant Backer: FH 1010 (5mm), 10 feet long, fluorine coated galvalume.
7. Corrugated Shim: FS 1005 (5mm), 4 feet long.

2.7 ACCESSORIES

- A. Building Wrap and Accessories: Refer to Section 07 25 00.
- B. Fasteners: Stainless steel corrosion resistant screws. Types and sizes as recommended by manufacturer and as required by Code for each application. Fastener heads shall be factory painted to match the colors on the fiber cement siding and panels.
- C. Sealant: Pro Series Quad sealant as manufactured by OSI or accepted equal, with the following characteristics:
 1. ASTM C920 compliant, Class 35, Type S, Grade NS, Use: NT.
 2. Sealant shall be composed of elastomeric polymers and high quality synthetic resins; paintable.
 3. Color: Match siding and trim color.
- D. Provide touch-up paint in each color to match each siding color.

PART 3 EXECUTION

3.1 GENERAL

- A. Install all materials in accordance with manufacturer's instructions.
- B. Install all materials using manufacturer recommended and approved tools and accessories.
- C. Cut panels per manufacturer's recommendations.

3.2 EXAMINATION

- A. Verify that substrate surfaces and wall openings are ready to receive work.

3.3 INSTALLATION – BUILDING WRAP

- A. Refer to Section 07 25 00.

3.4 INSTALLATION – SIDING PANELS

- A. Install siding blind fastened method in accordance with manufacturer's instructions.
 1. Using a chalk line, establish a course line around the perimeter of the frame to locate the top of the first course of planks. Set a series of guide screws along the line to act as a stop for the correct placement of the first course of planks.
 2. Verify that all required flashings and waterproofing membrane are properly installed.
 3. Install 1-1/4 inch x 1/4 inch starter strip around the base perimeter of the frame. This is to kick out the bottom course the same as the consecutive courses will be.

4. Install the first plank, starting from an outside corner. Fasten the plank to each stud through the starter strip.
5. On-stud butt joint planks shall have moderate contact and nailed on each side of joint. Metal joint connectors will not be allowed.
6. Install the next plank in position, aligning edges carefully.
7. Continue installing bottom course of planks around the building.
8. Remove guide fasteners.
9. Start the second course. Again working from an outside corner, start with an off-cut plank (so that plank butts will be staggered). Continue around the building, butting planks on-stud.
10. Rotate planks to avoid textured pattern repeat.

B. Touch-up factory painted surfaces that are disfigured or damaged by installation.

3.5 INSTALLATION – TRIM

- A. Install flashing around all wall openings.
- B. Fasten through trim into structural framing.
- C. Place fasteners no closer than 3/4 inch and no further than 2 inches from side edge of trim board and no closer than 1 inch from end. Space fasteners a maximum 16 inches on center.
- D. Maintain clearance between trim and adjacent finished grade.
- E. Allow 1/8 inch gap between trim and siding.
- F. Seal gap with high quality, paintable caulk meeting ASTM C834 or ASTM C920.
- G. Overlay siding with trim moulding at outside corners where indicated on Drawings. Do not place screws between lap joints.

3.6 INSTALLATION TOLERANCES

- A. All products shall be installed straight, level, true and plumb.
- B. Maximum variation from level: 1/8 inch per 10 feet, non-cumulative.
- C. Maximum offset from joint alignment: 1/16 inch, non-cumulative.

3.7 TOUCH-UP

- A. Prime all cut surfaces before installation.
- B. Touch-up factory pre-finished surfaces that are cut, disfigured, or damaged by installation and handling with matching color touch-up paint. Touch-up shall not be obvious.

END OF SECTION