

Stewart Indian School Welcome Center

State Of Nevada Indian Commission
5366 Snyder Avenue, Building 2
Carson City, NV 89701

State Of Nevada Public Works Division
515 East Musser Street, Room 102 - Carson City, NV 89701-4263

SPWD Project No. 15-P03

August 19, 2016
100% Construction Documents

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Stewart Indian School
Welcome Center

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Carson City, NV 89701

Title Sheet

August 19, 2016
H+K Project No.: 1604B

T100



Abbreviations	General Notes	Project Team	Sheet Index
<p>A Adj. Adjustable Aggr. Aggregate Alt. Alternate Alum. Aluminum Approx. Approximately Arch. Architectural/Architect A.C. Asphalt Concrete</p> <p>B Bm. Beam Blk. Block Blkg. Blocking Bd. Board B.O. Bottom of Bldg. Building B.U.R. Built up Roofing</p> <p>C C.I. Cast Iron C.B. Catch Basin Cig. Ceiling Ctr. Center C.L. Center Line Cer. Ceramic C.O. Cleanout C.W. Cold Water Col. Column Conc. Concrete Conn. Connection Const. Construction C.J. Construction Joint Contn. Continuous Contr. Contractor Cu. Ft. Cubic Foot</p> <p>D D.G. Decomposed Granite Dept. Department Det. Detail Dia. Diameter Diff. Diffuser Dim. Dimension Dbl. Double DN. Down D.S. Downspout Dwg. Drawing D.U.F. Drinking Fountain</p> <p>E Ea. Each Etc. Etcetera E.W.C. Electric Water Cooler Elec. Electrical Elev. Elevation Emer. Emergency Encl. Enclosure Eq. Equal Equip. Equipment Exh. Exhaust Exp. Expansion Ex.P. Expansion Joint Ext. Exterior</p> <p>F F.O. Face of Fin. Finish F.G. Finish Grade F.E. Fire Extinguisher F.E.C. Fire Extinguisher Cabinet Fpr. Fireproof(ing) Fist. Fixture Flash. Flashing Flr. Floor F.D. Floor Drain F.L. Flow Line Ft. Foot Ftg. Footing Fdn. Foundation FBO. Furnished by Others Furr. Furring Fut. Future</p> <p>G Galv. Galvanized G.I. Galvanized Iron Ga. Gage Gen. General Gl. Glass GLB. Glue-Laminated Beam Gyp. Gypsum</p> <p>H Ht. Height H.C. Hollow Core H.M. Hollow Metal Horiz. Horizontal H.B. Hose Bibb H.W. Hot Water Hr. Hour</p> <p>I In. Inches I.D. Inside Diameter Insul. Insulation Int. Interior</p> <p>J Jt. Joint</p> <p>L Lab. Laboratory Lav. Lavatory Lt. Light</p> <p>M Mfr. Manufacturer M.O. Masonry Opening Max. Maximum Mech. Mechanical Memb. Membrane Met. Metal Min. Minimum Misc. Miscellaneous MPH. Miles per hour Mtd. Mounted</p> <p>N Nom. Nominal N.I.C. Not in Contract N.T.S. Not to Scale No. Number</p> <p>O O.C. On Center O.D. Outside Diameter O.H. Opposite Hand</p> <p>P Pr. Pair P. Lam. Plastic Laminate Pl. Plate Plywd. Plywood Pt. Point Prfab. Prefabricated Prop. Property PSF. Pounds per square foot PSI. Pounds per square inch</p> <p>R Rad. Radius Ref. Reference Reinf. Reinforced Reqd. Required R.A. Return Air Rev. Revision R.O.W. Right of Way R.D. Roof Drain Rm. Room R.O. Rough Opening</p> <p>S Sched. Schedule Sect. Section Sh. Sheet Sim. Similar S.C. Solid Core Spec. Specification Sq. Square Sq. Ft. Square foot St. Stl. Stainless Steel Std. Standard Stl. Steel Stg. Storage Struct. Structural Susp. Suspended Sym. Symmetrical</p> <p>T Tel. Telephone T.V. Television T.&G. Tongue and Groove T.C. Top of Curb (or Concrete) T.O. Top of</p> <p>U U.N.O. Unless Noted Otherwise</p> <p>V Vert. Vertical V.C.T. Vinyl Composition Tile</p> <p>W W.C. Water Closet Wt. Weight W.F. Wide Flange Wdw. Window W/ With W/O Without Wd. Wood W.J. Weakened Plane Joint</p> <p>Y Yd. Yard</p>	<p>1. These general notes pertain to work described on all contract documents.</p> <p>2. The contract documents consist of the owner-contractor agreement, the conditions of the contract (general, supplementary and other conditions), the drawings, the specifications, and all addenda issued prior to and all modifications issued after execution of the contract.</p> <p>3. The work comprises the completed construction required by the contract documents and includes all labor necessary to produce such construction, and all materials and equipment incorporated or to be incorporated in such construction.</p> <p>4. Shop drawings, product data and samples are not a part of the contract documents. The Architect will review them, but only for conformance with the design concept of the work and with the information given in the contract documents. The Contractor shall not be relieved of responsibility for any deviation from the requirements of the contract documents by the Architect's review of shop drawings, product data or samples.</p> <p>5. The Contractor shall carefully study and compare the contract documents and shall at once report to the Architect any error, inconsistency or omission he may discover. The Contractor shall perform no portion of the work at any time without contract documents or, where required, approved shop drawings, product data or samples for such portion of the work.</p> <p>6. All work is to conform with the contract documents. Drawings are NOT to be scaled for information. If unable to locate dimensions for any item of work, consult with the Architect before proceeding with construction.</p> <p>7. In the event certain features of the construction are not fully shown on the contract documents, then their construction shall be of the same character as for similar conditions that are shown or called for and shall be reviewed by the Architect.</p> <p>8. All work shall be performed within strict conformance to the minimum standards of the current edition of the adopted building codes of the authority having jurisdiction and all applicable national, state, and local laws, regulations, and ordinances.</p> <p>9. The Contractor shall be responsible for the general safety during construction, and all work shall conform to pertinent safety regulations.</p> <p>10. The Contractor shall coordinate locations of any and all mechanical, telephone, electrical, lighting and plumbing including all piping, ductwork and conduit. Coordinate all required clearances for installation and maintenance of the above equipment.</p> <p>11. The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.</p> <p>12. The Contractor shall be responsible for the acts and omissions of his employees, subcontractors, and their agents and employees, and other persons performing any work under a contract with the Contractor.</p> <p>13. The Contractor shall pursue work in a continuous and diligent manner to ensure a timely completion of the project.</p> <p>14. The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the work he shall remove all his waste materials and rubbish from and about the project as well as all his tools, construction equipment, machinery, and surplus materials.</p> <p>15. The Contractor shall be responsible for the location and/or protection of all existing and proposed piping, utilities, structures, adjacent streets and improvements during the period of construction.</p> <p>16. Unless otherwise provided in the contract documents, the Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the work.</p> <p>17. Where conflicts occur, coordinate the layout and exact location of all partitions, doors, telephones, and electrical/ communication outlets and switches with Architect in the field before proceeding with construction.</p> <p>18. Where conflict is encountered between the contract documents that will materially affect the quality or extent of the work, such conflict shall be resolved to the satisfaction of the Architect before the affected items and/or material are purchased, fabricated and/or installed.</p> <p>19. Where pre-manufactured or prefabricated items and/or materials are to be installed - the Contractor shall verify rough or finished dimensions in the field prior to purchase or fabrication.</p> <p>20. The Contractor shall guarantee all work and materials to be free from defects for a minimum of one year from date of final acceptance, and promptly remedy such defects and any subsequent damage caused by the defects or repair thereof, at no expense to the owner. Guarantee periods of greater than one year may be required and contained within the contract documents.</p> <p>21. Where any item and/or material is indicated in the contract documents, and not necessarily detailed in each specific case, but is required for a complete and professional installation - such item and/or material shall provided as if shown and detailed in full. Provide means to furnish and install.</p> <p>22. Contractor is requested to visit the site as part of the pre-bid site visit to compare the drawings and specifications with any work in place, and inform himself of all conditions, including the work, if any, being performed. Failure to visit the site will in no way relieve the Contractor from necessity of furnishing any materials or performing any work in accordance with the drawings and specifications that may be required to complete the work without additional cost to the owner.</p> <p>23. Existing conditions including material sizes, configurations, and locations as shown on the drawings may not be an exact illustration of existing as-built conditions. The Contractor shall include in his bid the cost of furnishing, installing, modifying, existing and/or new materials (minor in nature) required for a complete and professional installation that may be required by minor variations between existing conditions as shown, and actual as-built conditions.</p>	<p>Owner: State of Nevada Public Works Division 515 East Musser Street, Room 102 Carson City, NV 89701 775-684-4141 775-684-4142 (Fax) Contact: Robbie Ooxby, RA</p> <p>Using Agency: State of Nevada Indian Commission 5366 Snyder Avenue Carson City, NV 89701 775-687-8333 Contact: Sherry L. Rupert, Executive Officer</p> <p>Structural Engineering: Hyttinen Engineering 5458 Longley Lane, Suite B Reno, NV 89511 775-826-3019 775-826-3076 (Fax) Contact: Jeremy Will, SE</p> <p>Electrical Engineering: PK Electrical, Inc. 681 Sierra Rose Drive, Suite B Reno, NV 89511 775-826-9010 775-826-9030 (Fax) Contact: Jason Aviles, PE, CEM, LEED AP BD-C</p> <p>Preservation Officer: State Historic Preservation Office 901 South Stewart Street Carson City, Nevada 89701 775-684-3439 Contact: Kristen Brown, Review & Compliance Architectural Historian</p> <p>Architecture: H+K Architects 5485 Reno Corporate Drive, Suite 100 Reno, Nevada 89511-2262 775-332-6640 775-332-6642 (Fax) Contact: Jeff Current, RA, LEED AP BD-C</p> <p>Mechanical Engineering: Petty and Associates, Inc. 1375 Greg Street, Suite 106 Sparks, NV 89431 775-359-5777 775-359-1119 (Fax) Contact: Dan Danner, CPD, LEED AP</p>	<p>T100 Title Sheet G100 Sheet Index + Project Data G301 Accessibility Diagrams</p> <p>Architectural</p> <p>A001 Site Demolition Plans A002 Site Alteration Plans A011 Site Details A101 Floor Plans A102 Casework + Finish Details A301 Exterior Elevations A401 Building Sections A601 Reflected Ceiling Plans A701 Window Elevations + Details A801 Interior Elevations</p> <p>Structural</p> <p>S001 Structural Cover Sheet / General Notes S002 General Notes (Continued) S101 Typical Details S102 Typical Details S201 Foundation/Floor Plan, Ceiling Framing Plan & Roof Framing Plan S301 Building Sections & Wall Elevations S401 Sections & Details S402 Sections & Details</p> <p>Mechanical</p> <p>M001 Mechanical Legend, Schedules, Index & Floor Plan</p> <p>Electrical</p> <p>E001 Electrical Legend & Drawing Schedule E002 Telecom Legends & General Notes E003 Fixture Schedule & Lighting Compliance Calculations E004 Panel Schedules, Online Diagrams & Load Calculations E005 Details E101 Electrical Site Plan E201 Electrical Demolition Plan E301 New Work Electrical Plans</p>
<p>Symbols</p> <p>Typical Indicator Drawing Number Sheet Number</p> <p>North Arrow</p> <p>Elevation</p> <p>Door Number</p> <p>Window Type</p> <p>Grid Lines</p> <p>Room Name/Number</p> <p>Wall Type Symbol</p> <p>Building Section</p> <p>Wall Section</p> <p>Detail</p> <p>Detail Section</p> <p>Spot Elevation</p> <p>Elevation</p>	<p>Vicinity Map</p>	<p>Design Criteria</p> <p>Applicable Codes: Building Code: 2012 International Existing Building Codes (IEBC) 2012 International Building Code (IBC) Mechanical Code: 2012 Uniform Mechanical Code (UMC) Plumbing Code: 2012 Uniform Plumbing Code (UPC) Electrical Code: 2011 National Electrical Code (NEC) Fire Code: 2012 International Fire Code (IFC)</p> <p>Regulations: The most current regulations of the State Fire Marshal, Nevada Department of Public Safety, Carson City, Nevada (NAC Chapter 477, State Fire Marshal). The 2016 edition of the Americans with Disabilities Act (ADA) published by the United States Department of Justice including the Americans with Disabilities Act Accessibility Guidelines (ADAAG). The American National Standard for Accessible and Usable Buildings and Facilities (ICC/ANSI A117.1) published by the International Code Council (edition as listed in the 2012 International Building Code).</p> <p>Requirements: The Secretary of the Interior's Standards for the Treatment of Historic Properties State of Nevada Public Works Board Adopted Standards</p> <p>Floor Area: Total: 230 GROSS SF</p> <p>Compliance Method: Work Area Compliance Method Work Area: 100% Risk Category: II Occupancy Group: Business B Historic Building: Yes (National Historic Register) Alteration Level: 3 Fire Sprinkler System: No Alarm Systems: No</p>	<p>Sheet Index + Project Data</p> <p>August 19, 2016 H+K Project No.: 1604B</p> <p>G 100</p>

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5485 Reno Corporate Drive, Suite 100
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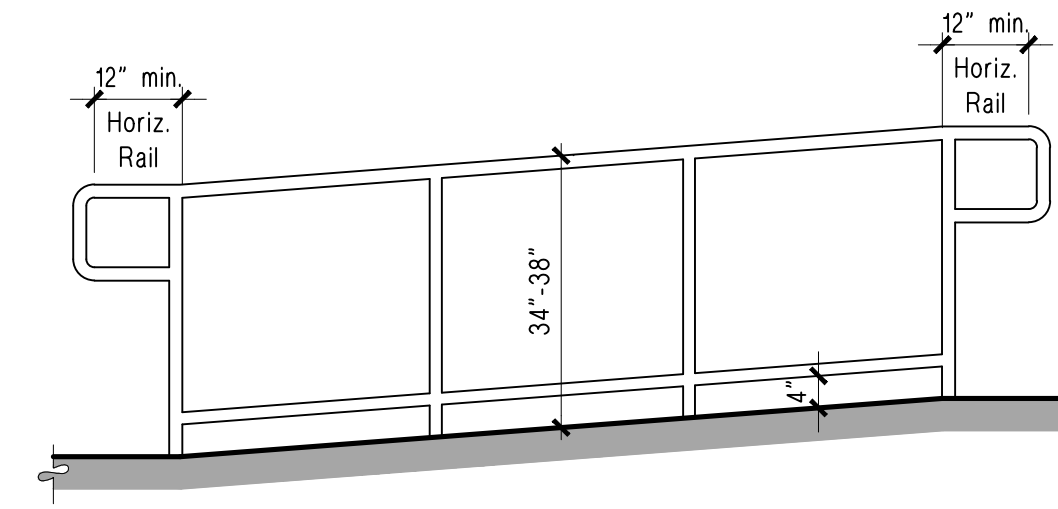
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Handrails shall comply with ICC/ANSI A117.1-2003 section 505.

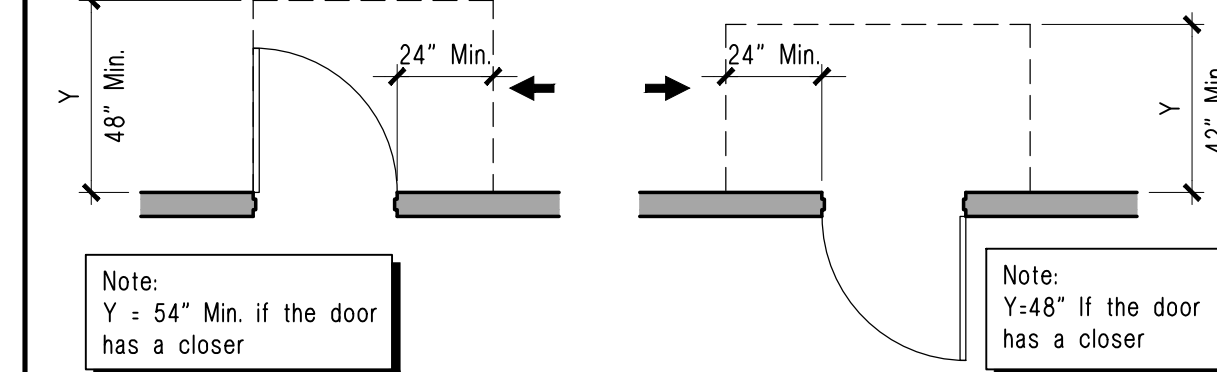
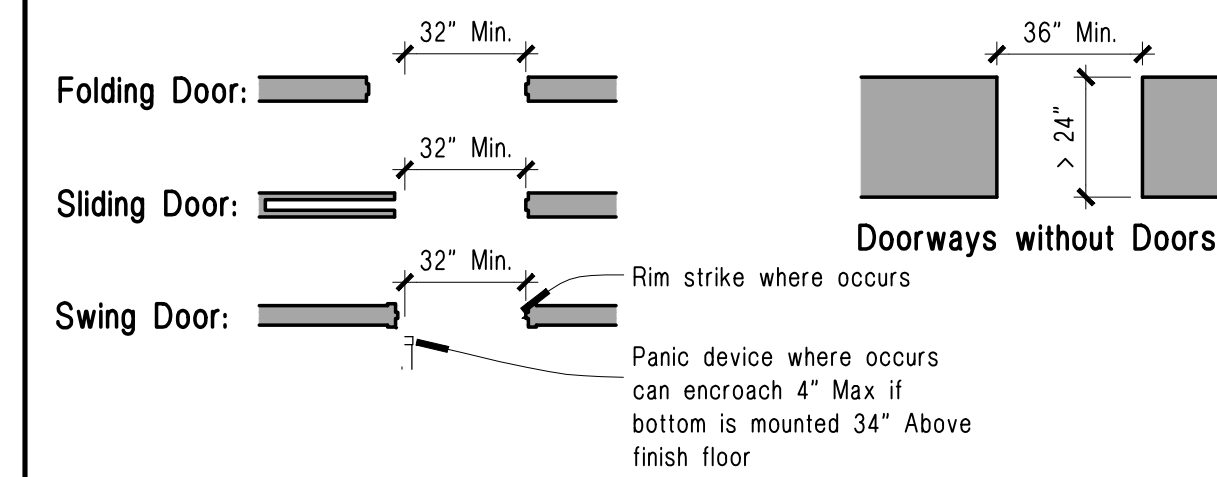
1. Handrail extensions shall return to a wall, guard or floor, or shall be continuous to the handrail of an adjacent ramp run.
2. Handrails shall be at a consistent height above ramp surfaces.
3. Edge protection shall be provided on each side of ramp per ICC/ANSI A117.1-2003 section 405.9.

5 Ramp Handrail Requirements

Not to Scale

Notes:

1. Dimensions & clearances shall be in accordance with ICC/ANSI A117.1-2009 section 404.2.3.
2. All door in alcoves and recesses shall comply with clearances for front approaches.



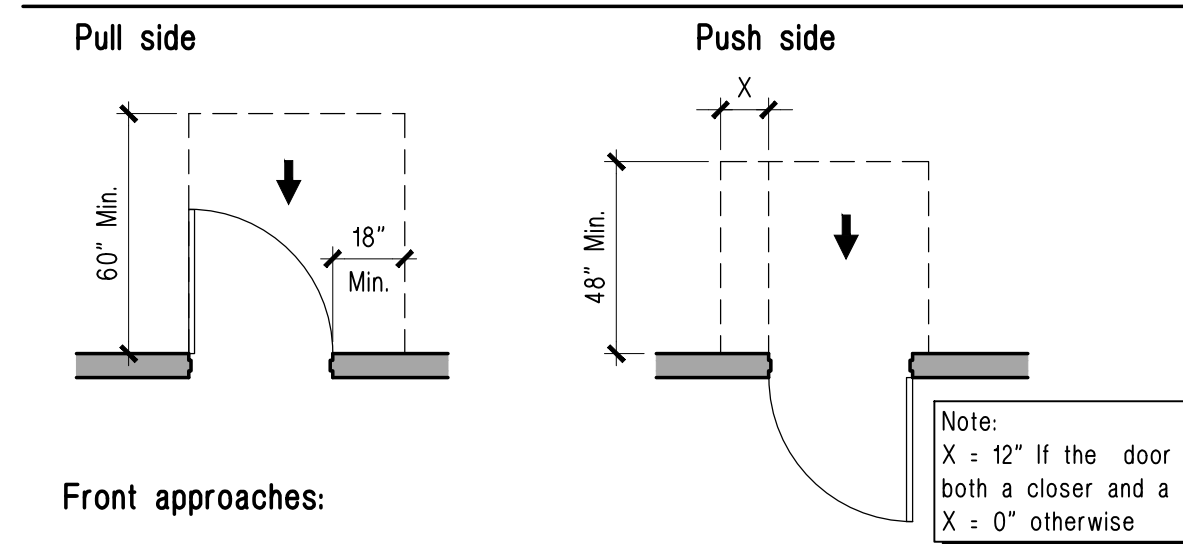
Latch side approaches:

Pull side

Push side

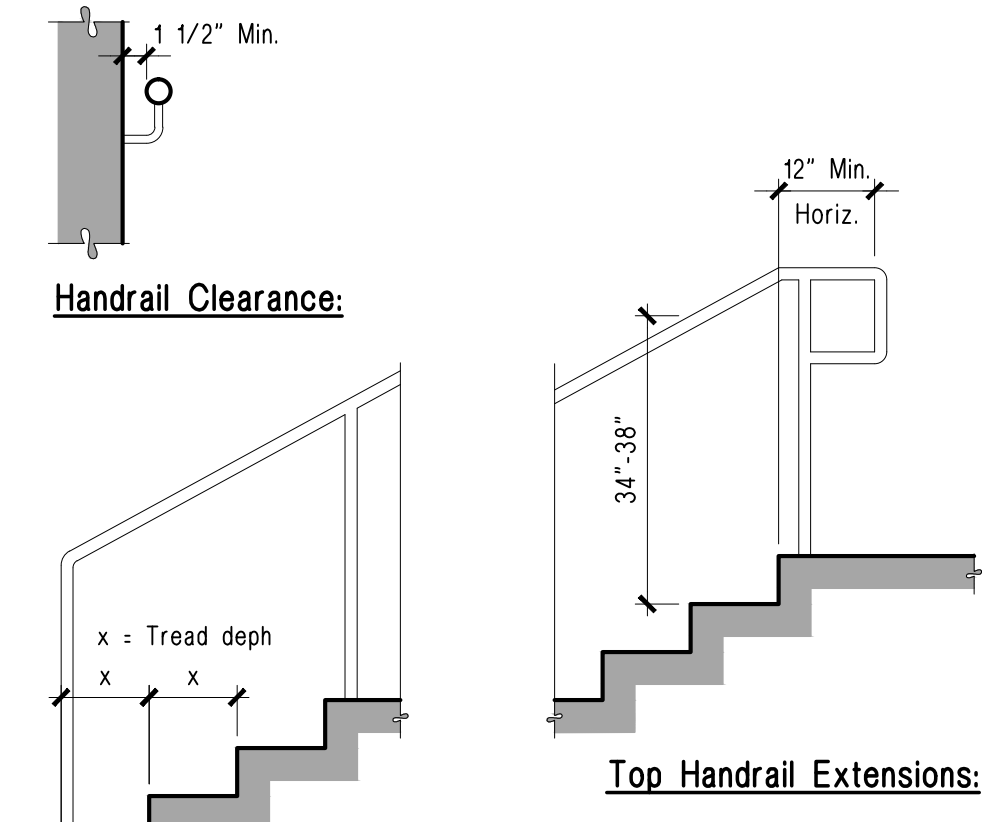
Note: X = 36" If Y = 60"
X = 42" If Y = 54"

Note: If the door has both a closer and a latch, Y = 48" X = 12"
X = 0" otherwise



4 Swing Door Approaches

Not to Scale



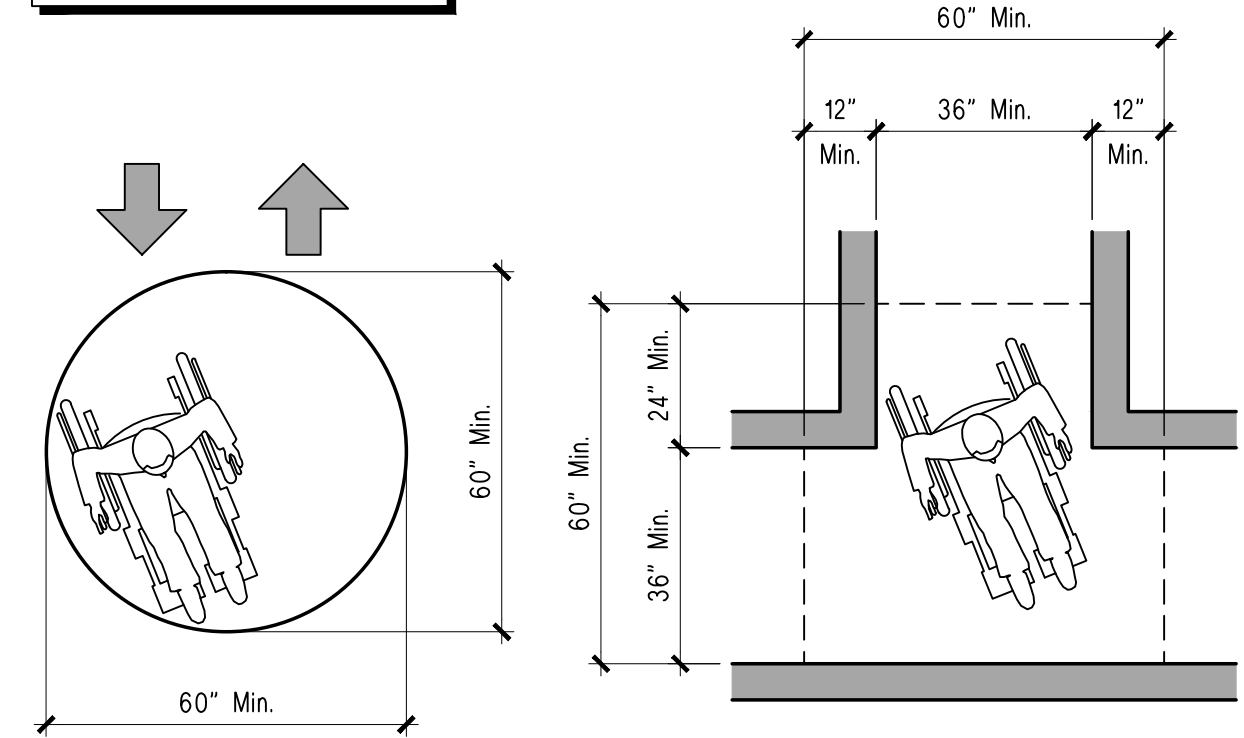
Handrails shall comply with ICC/ANSI A117.1-2003 Section 505.

1. Handrail extensions shall return to a wall, guard or floor, or shall be continuous to the handrail of an adjacent stair flight.
2. Handrails shall be at a consistent height above stair nosings and walking surfaces.

3 Stair Handrail Requirements

Not to Scale

Note: Dimensions & clearances shall be in accordance with ICC/ANSI A117.1-2009 section 305.

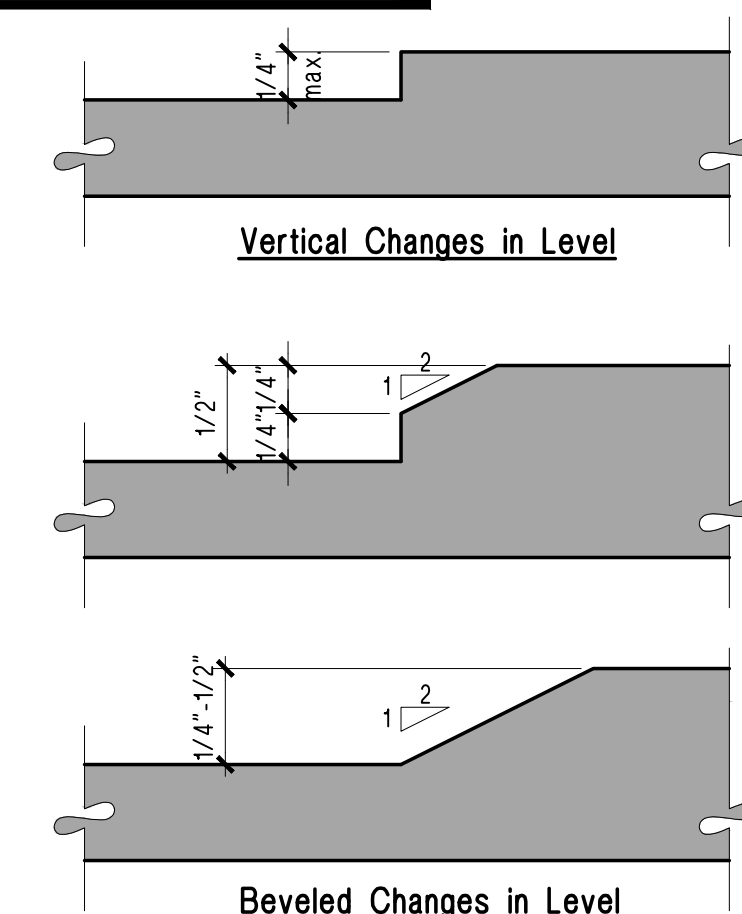


Diameter Space: T-Shaped Space for 180° Turn:

2 Wheelchair Turning Space

Not to Scale

Note: Changes in level shall meet the requirements of ICC/ANSI A117.1-2009 section 303 as shown. Changes in level greater than 1/2 inch shall be ramped.



1 Changes in Level

Not to Scale



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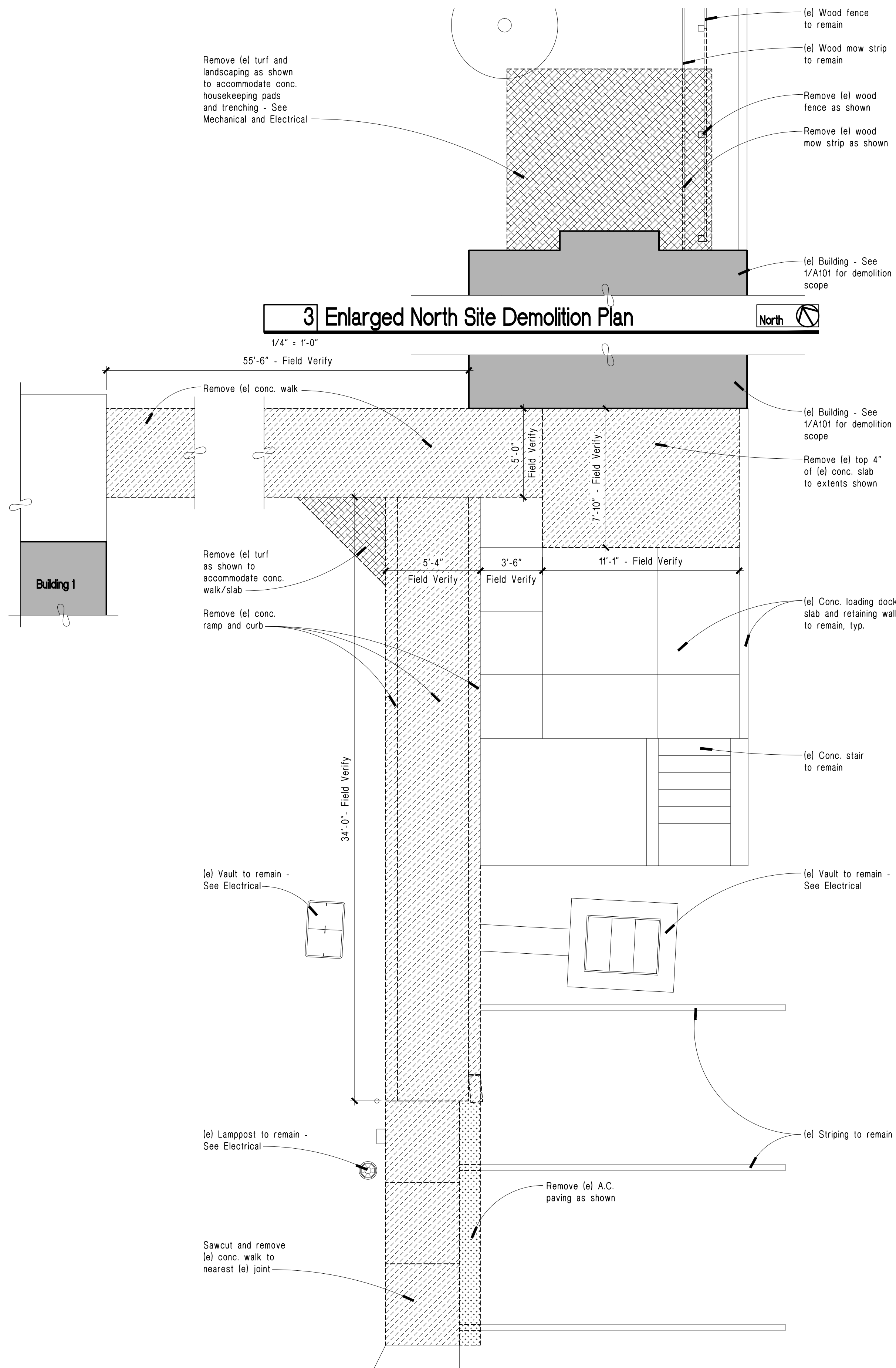
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Accessibility Diagrams

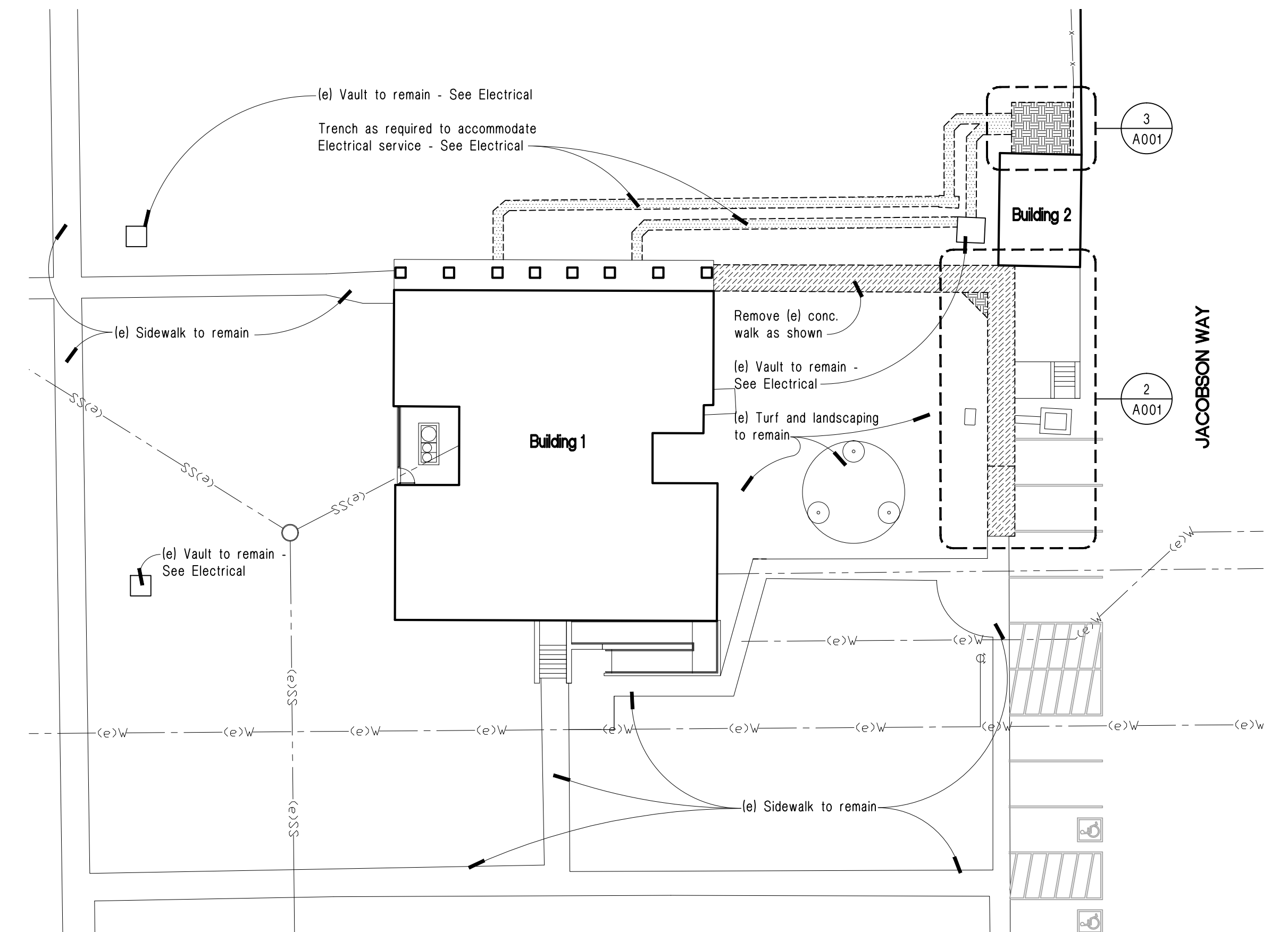
August 19, 2016
H+K Project No.: 1604B

G301





2 Enlarged South Site Demolition Plan
1/4" = 1'-0"



1 Partial Site Demolition Plan
1" = 20'-0"

Site Demolition Notes	
1.	For the purpose of Architectural work all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demolition requirements.
2.	See Selective Demolition and Cutting, and Patching sections in Project Manual for additional demolition requirements.
3.	All existing utilities shown on this Demolition Plan are for the Contractor's information. All utilities not specifically noted on the drawings to be removed or relocated shall remain in their existing location and condition. Refer to the Consultant drawings for additional alterations to utilities. Notify the Architect of any utility locations which vary from that shown on the drawings. The location of utilities is approximate. Contractor is to verify all utility locations prior to any trenching or saw cutting of existing paving/concrete. Call before you dig at 1 (800) 227-2600.
4.	Existing grades are to remain unchanged unless otherwise noted. Concrete walks or patios adjacent to the building that are noted to be removed shall be reinstalled at their existing grade unless doing so would create a positive slope toward the building. In such cases the Contractor shall change the grade to create a positive slope away from the building. Landscaped areas will be graded to create a positive slope away from the building.
5.	For trenching details see Consultant's drawings and specifications and appropriate utility company requirements.
6.	Any saw cutting of existing concrete walks/patios shall be done to nearest joints only. Saw cutting indicated on plan is approximate and may vary one full panel. Contractor shall verify extents of concrete demolition prior to saw cutting. Concrete will be replaced to match existing with joints replaced where removed. Where existing stained and stamped concrete is to be removed, replace with fully pigmented concrete and stamp to match existing.
7.	Replace all concrete curbs or curb and gutter to match existing. Where curb and gutter are noted to be removed ensure that flow lines match existing.
8.	Removed Asphaltic Concrete (AC) Paving shall be replaced to match base and thickness of existing using a hot mix.

Site Demolition Legend	
	Area of excavation to accommodate utility service - See Electrical, Mechanical, and Plumbing
	Area of (e) conc. slab/walk to be sawcut and removed
	Area of (e) turf to be removed

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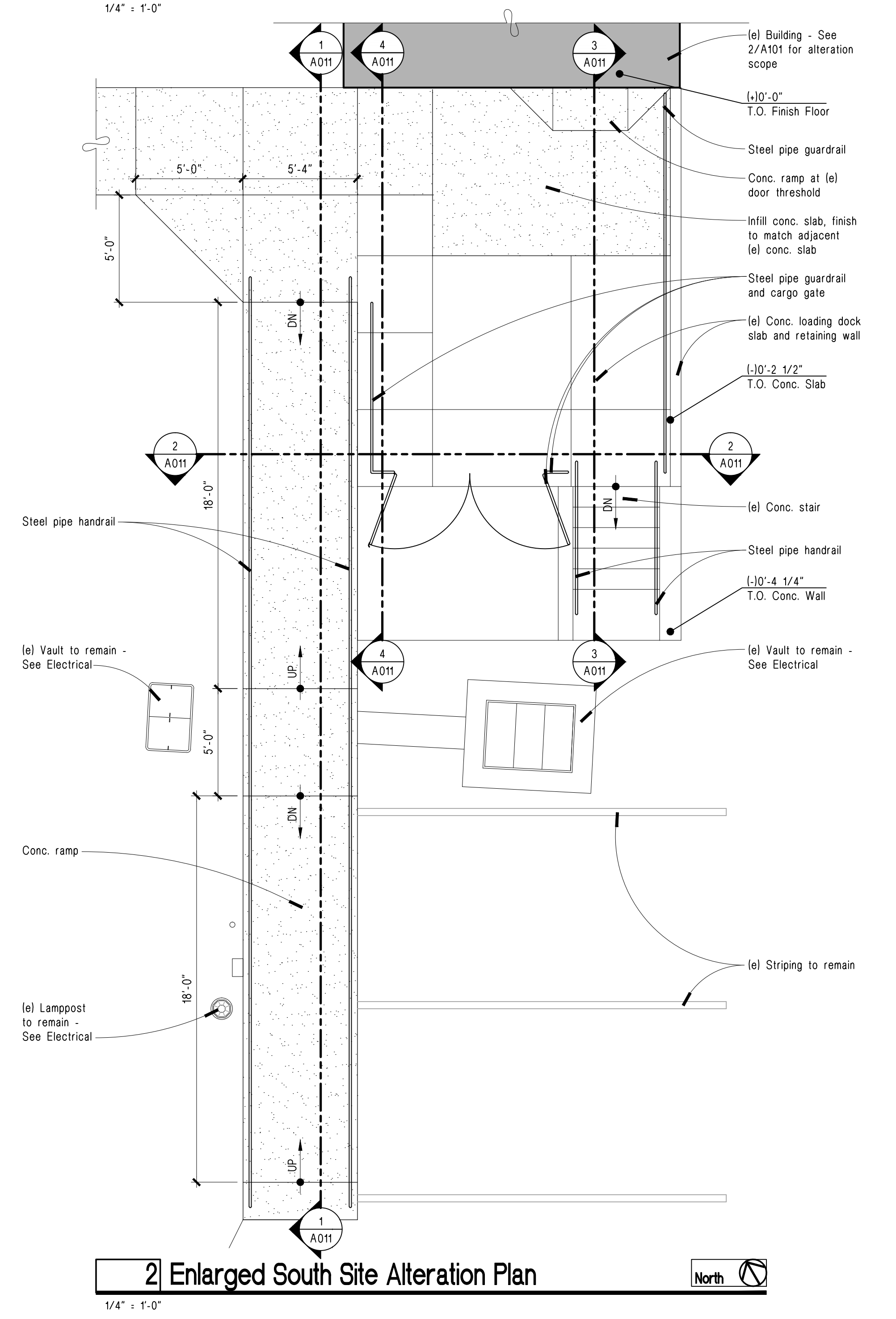
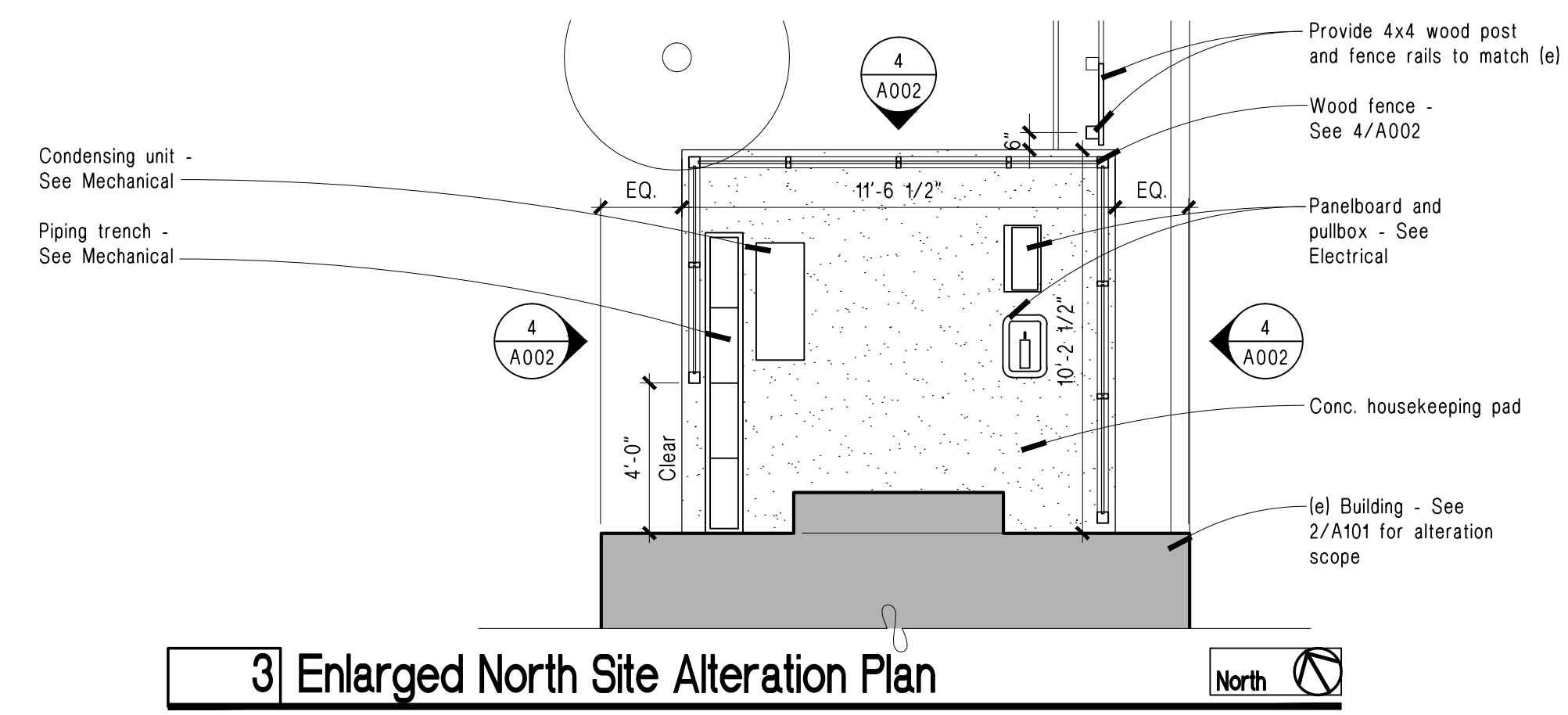
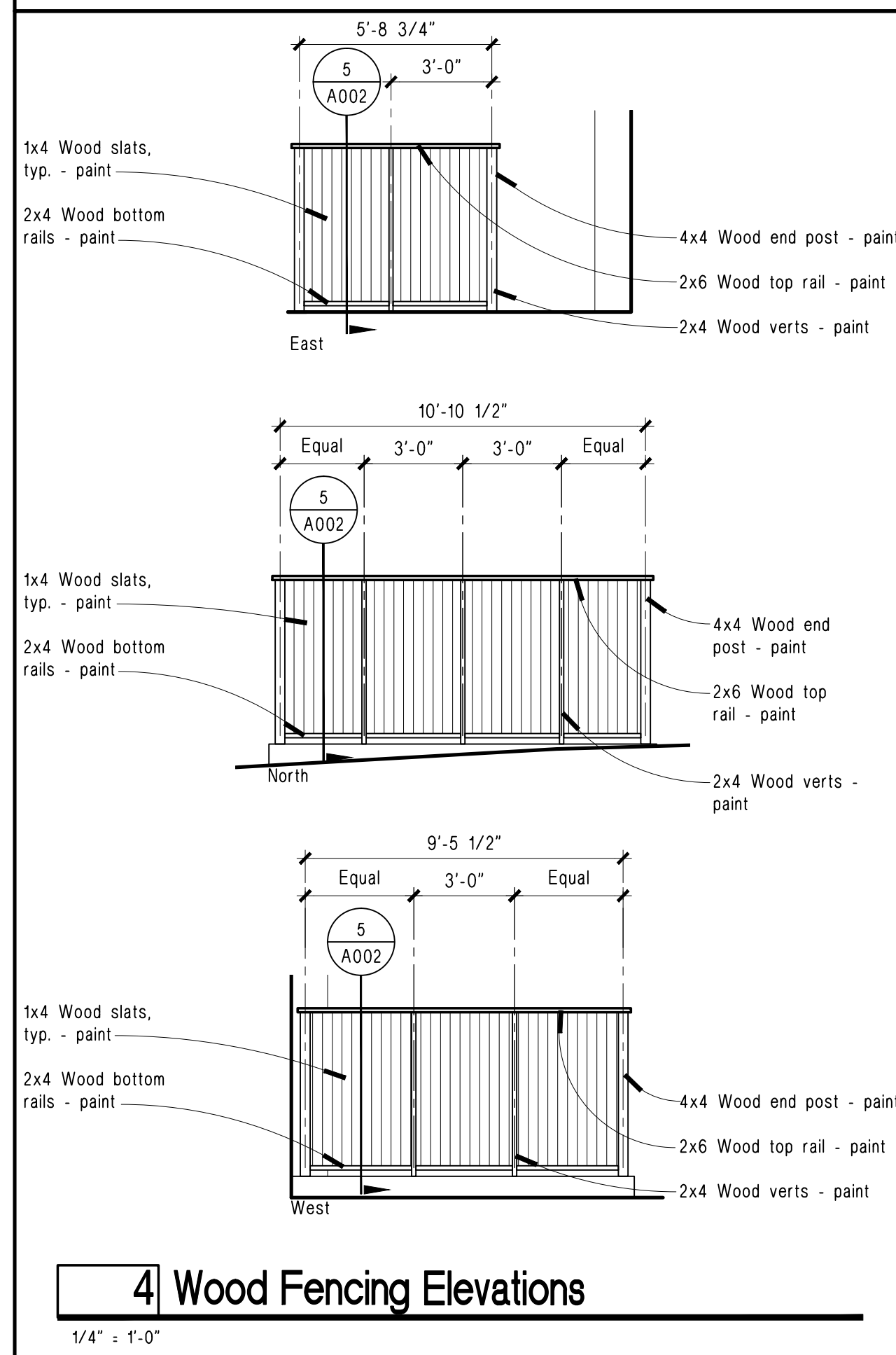
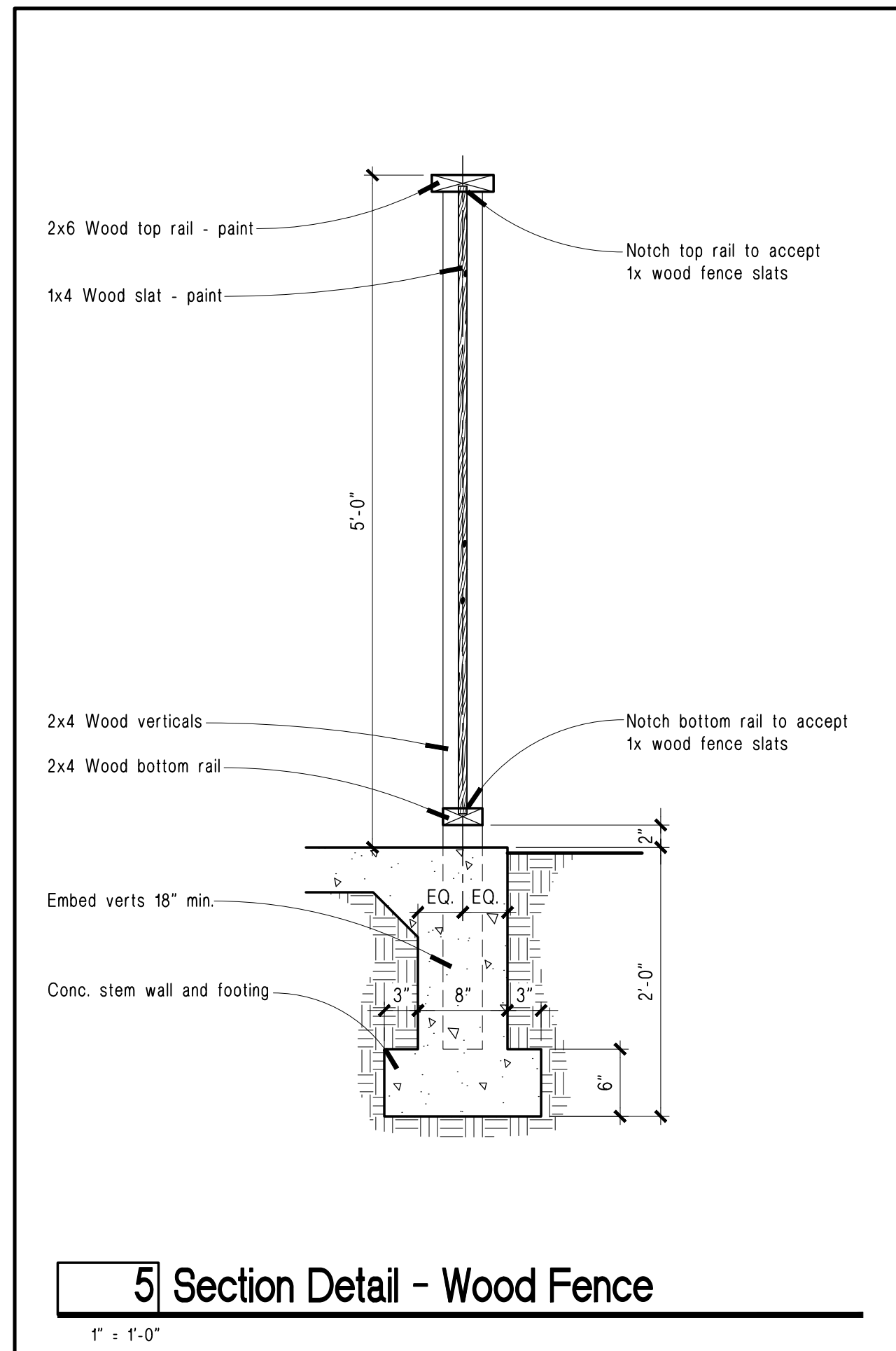
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5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262
P 775+332+6640
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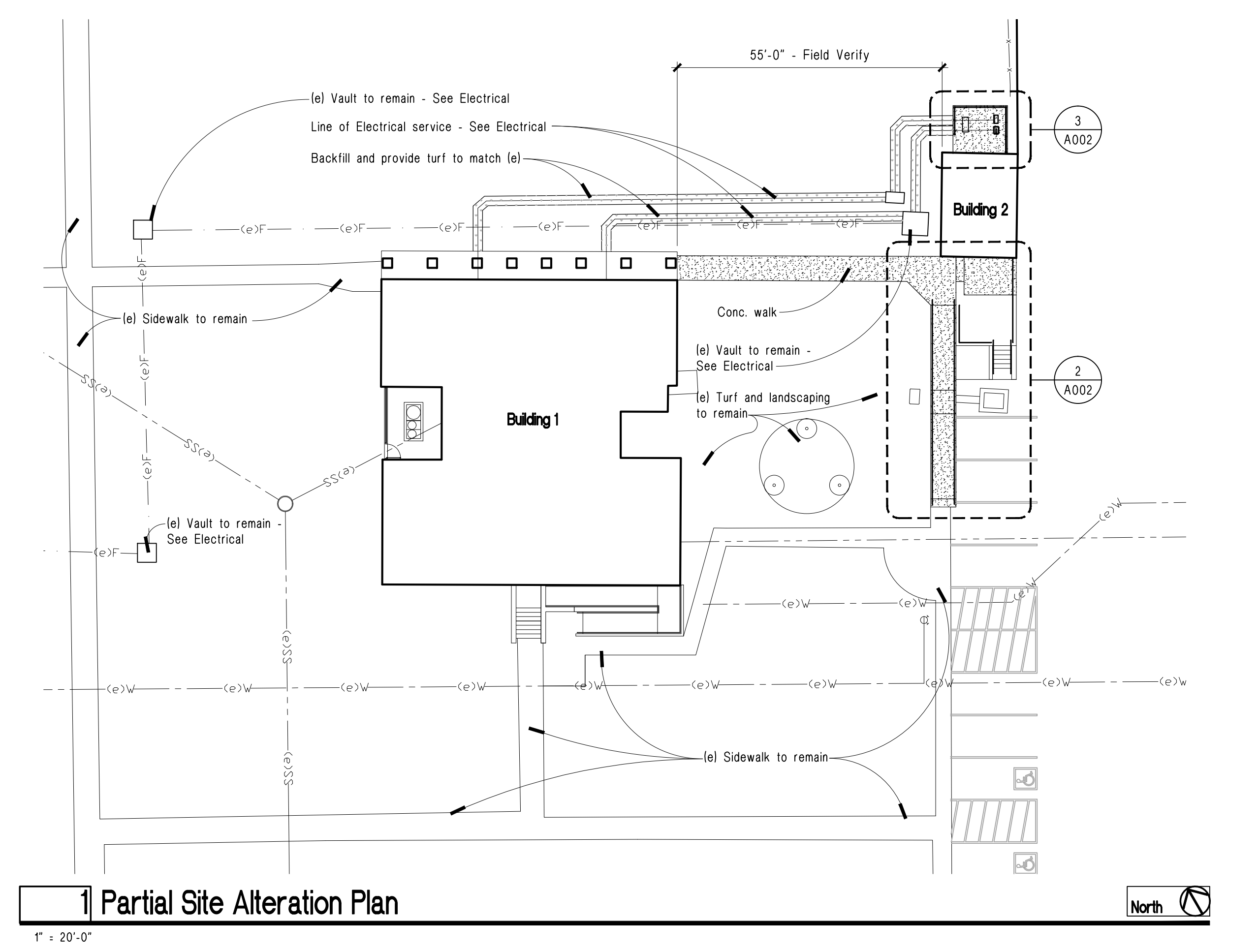
Site Demolition Plans
August 19, 2016
H+K Project No.: 1604B
A001





Site Notes	
1.	All accessible route cross slopes shall not exceed 2% (1":50") maximum, typical.
2.	All changes in elevation that fall within an accessible path shall not exceed 1/4" at an abrupt transition and not more than 1/2" at transitions that slope no greater than 1:2.

Site Legend	
	Area of backfill and turf to match (e)
	Area of conc. walk/slab/flatwork



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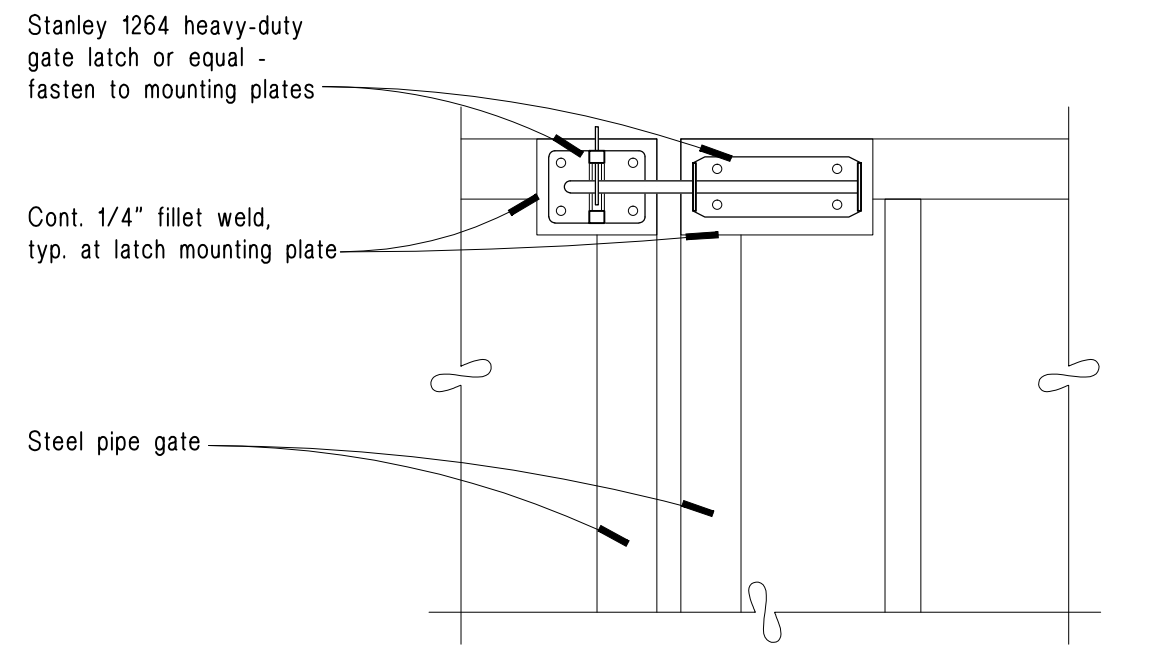


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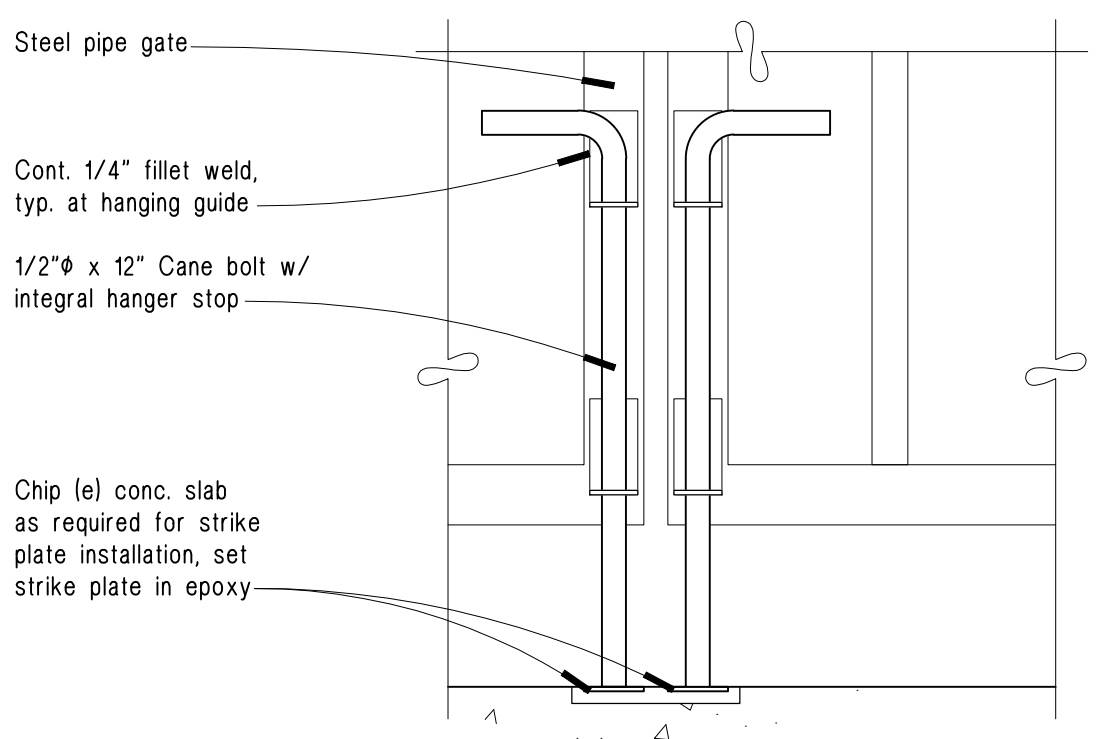
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Reno, Nevada 89511-2262
P 775+332+6640
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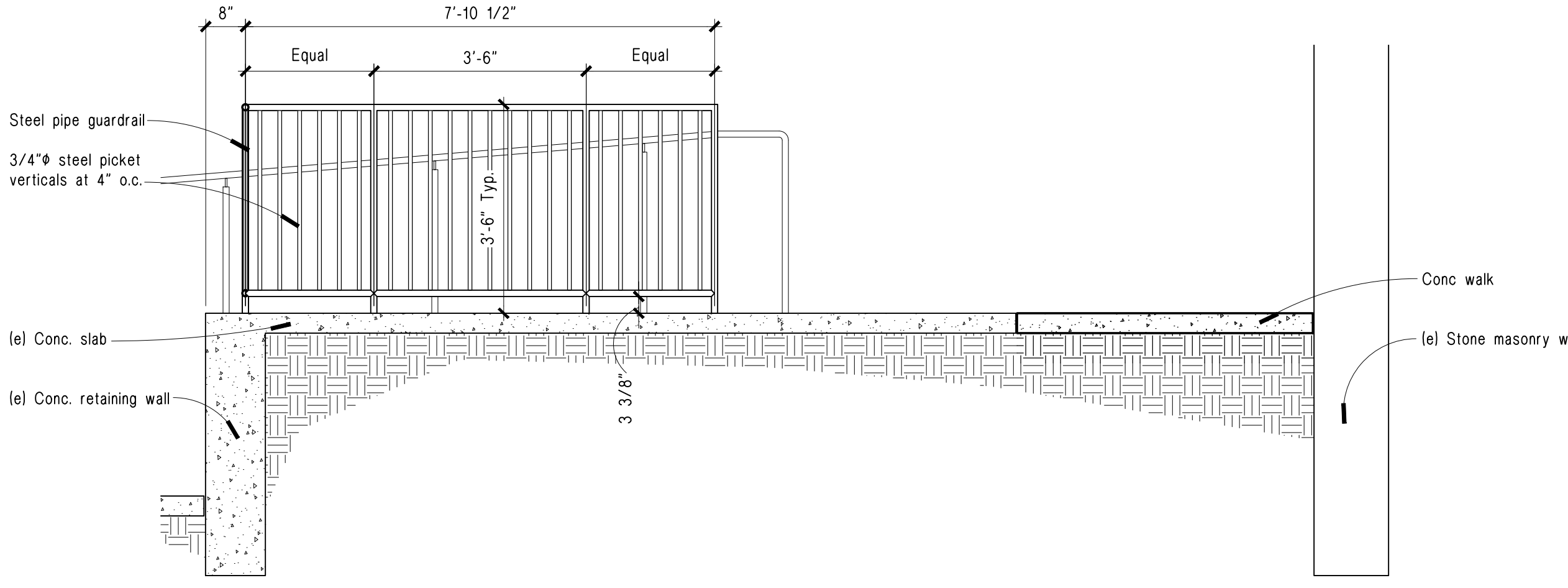
Site Alteration Plans
August 19, 2016
H+K Project No.: 1604B
A002



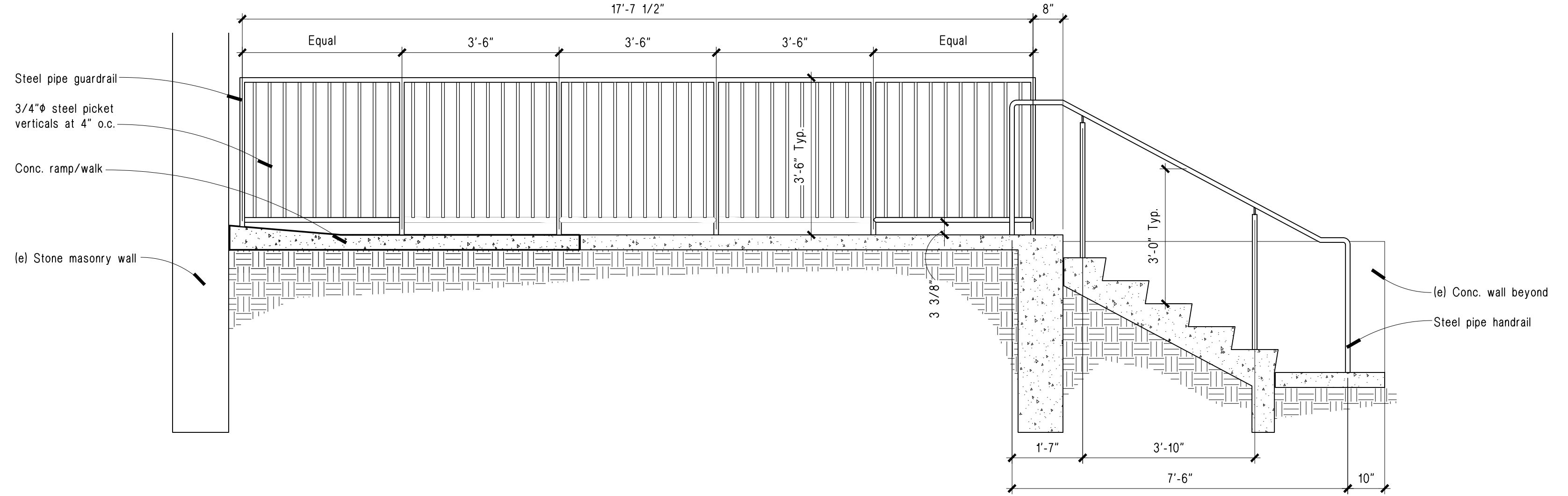
6 Latch at Steel Gate
3" : 1'-0"



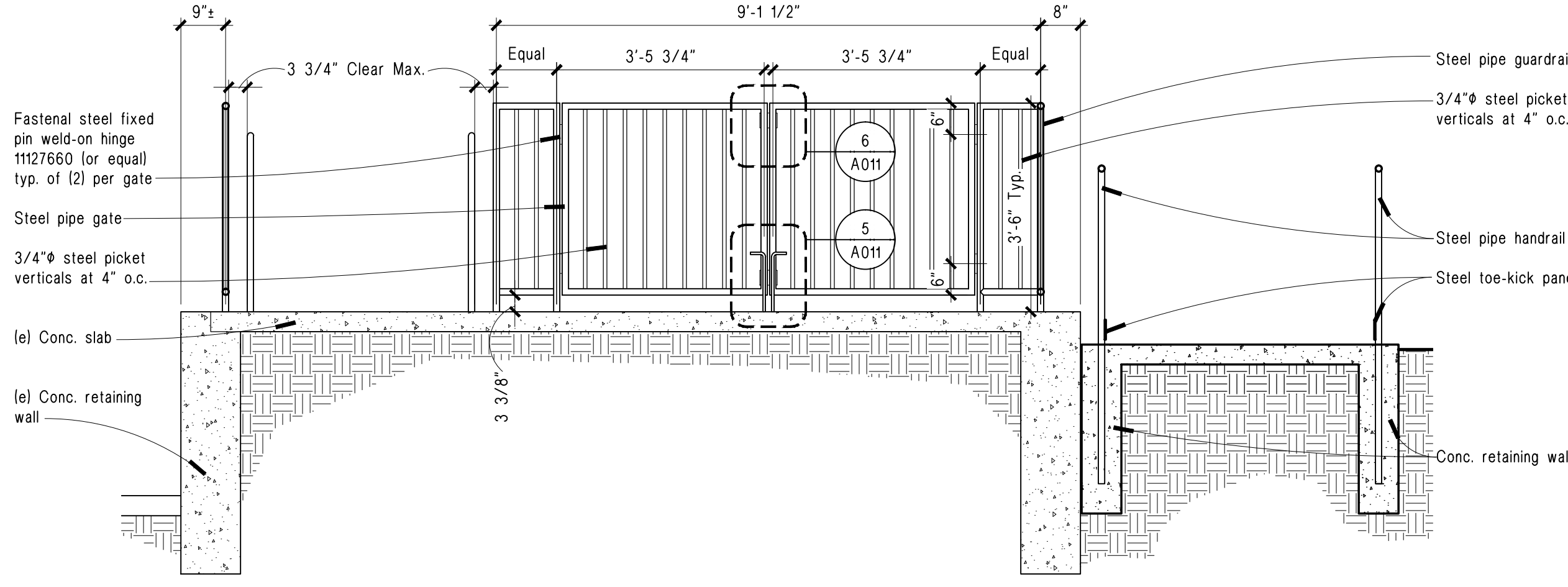
5 Cane Bolt at Steel Gate
3" : 1'-0"



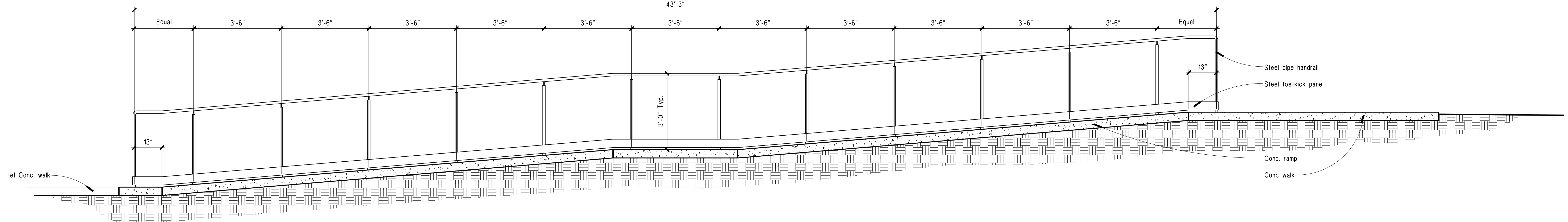
4 Railing at Ramp Edge
1/2" : 1'-0"



3 Railing at Entry Road
1/2" : 1'-0"



2 Railing at Dock Platform
1/2" : 1'-0"



1 Railing at Accessible Ramp
1/2" : 1'-0"

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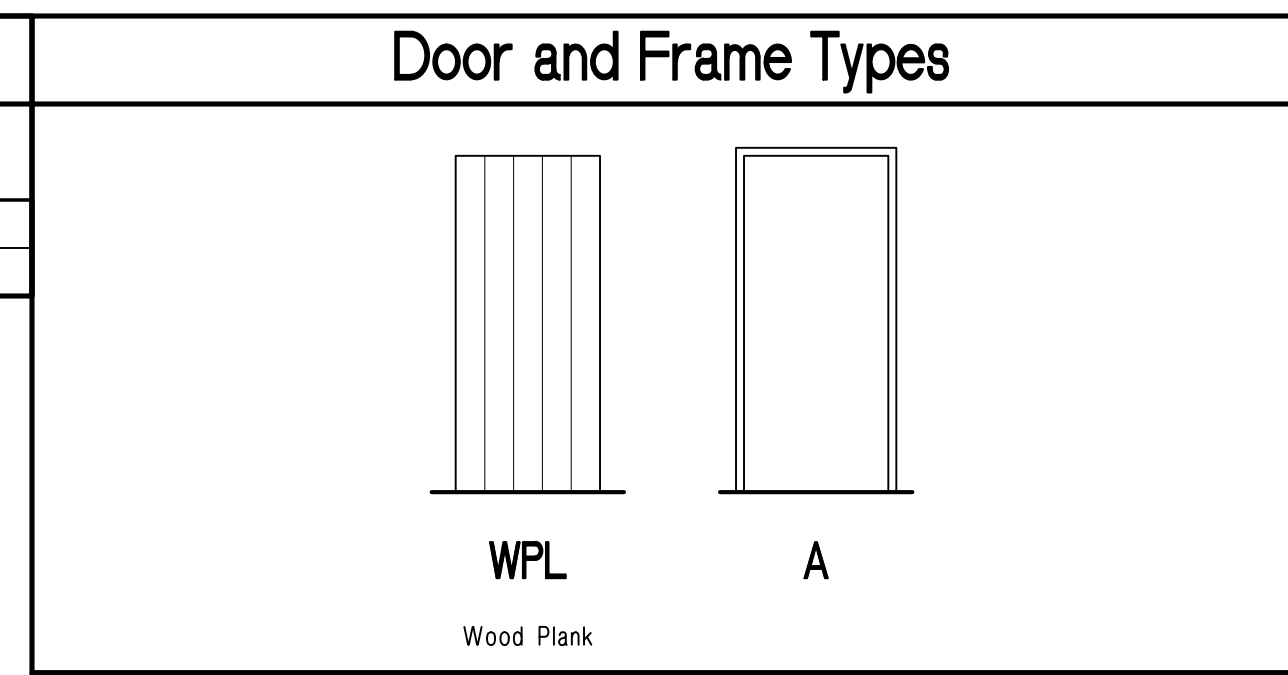
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Site Details
August 19, 2016
H+K Project No.: 1604B
A011



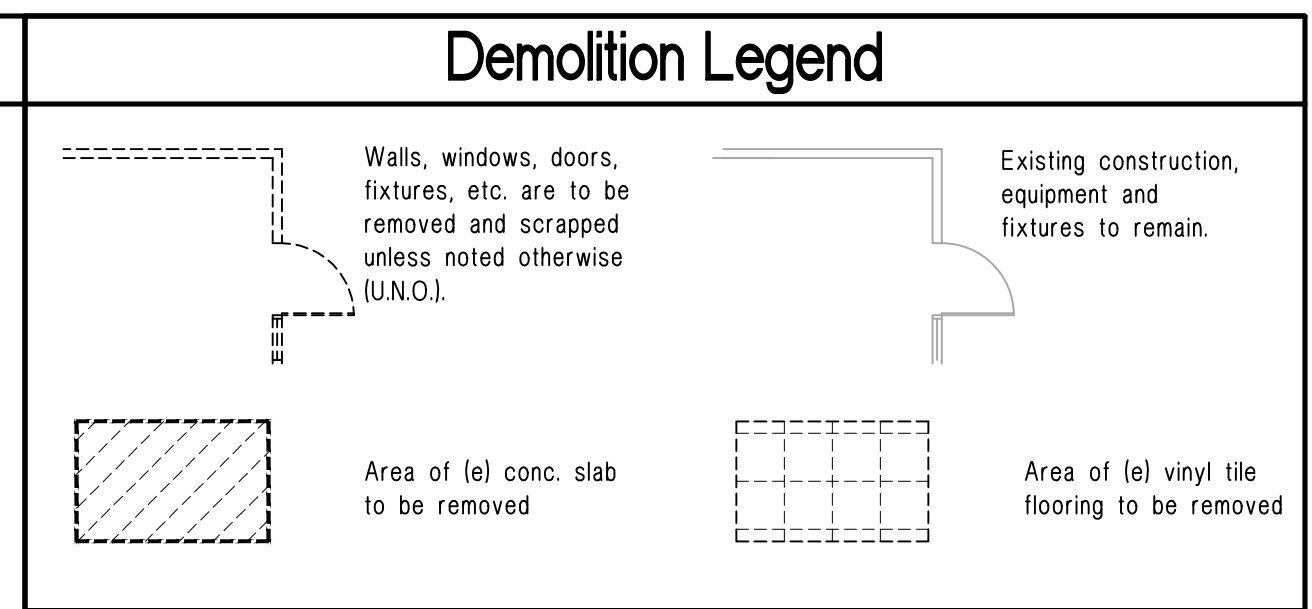
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Door Schedule																
Door No.	DOOR						FRAME				DETAILS			Label	Hardw. Group	REMARKS
	Size	Pair	Mat'l	Type	Glass	Rating	Mat'l	Elev	Glass	Rating	Head	Strike	Hinge			
001	3'-0" x 7'-0" - Field Verify		WD	GPL	-	-	WD	A	-	-	4/A102	2/A102 O.H.	2/A102	1/A102	H1	Finish and stain to match (e) adjacent interior and exterior finishes

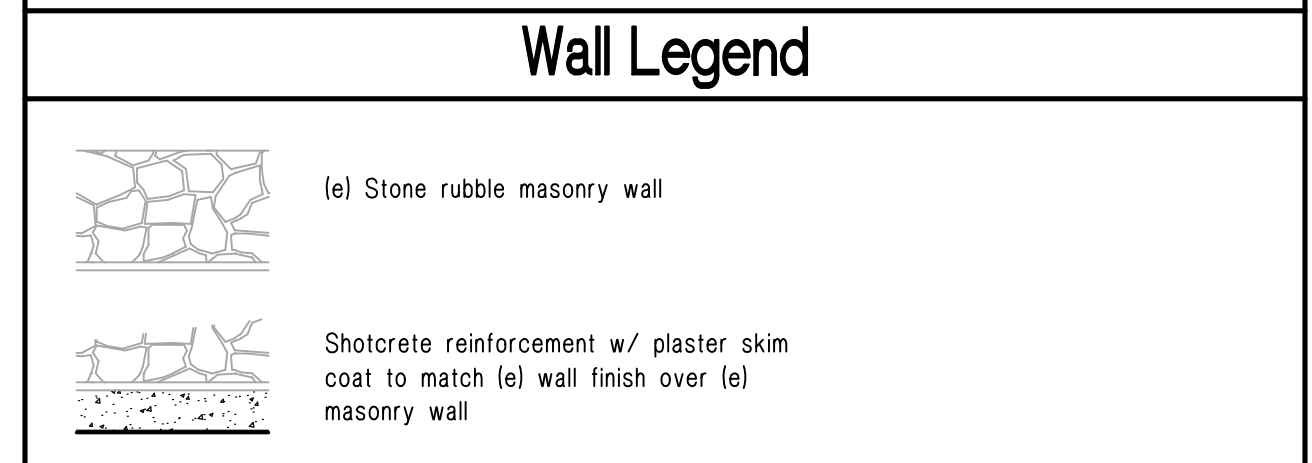


Door Schedule Notes

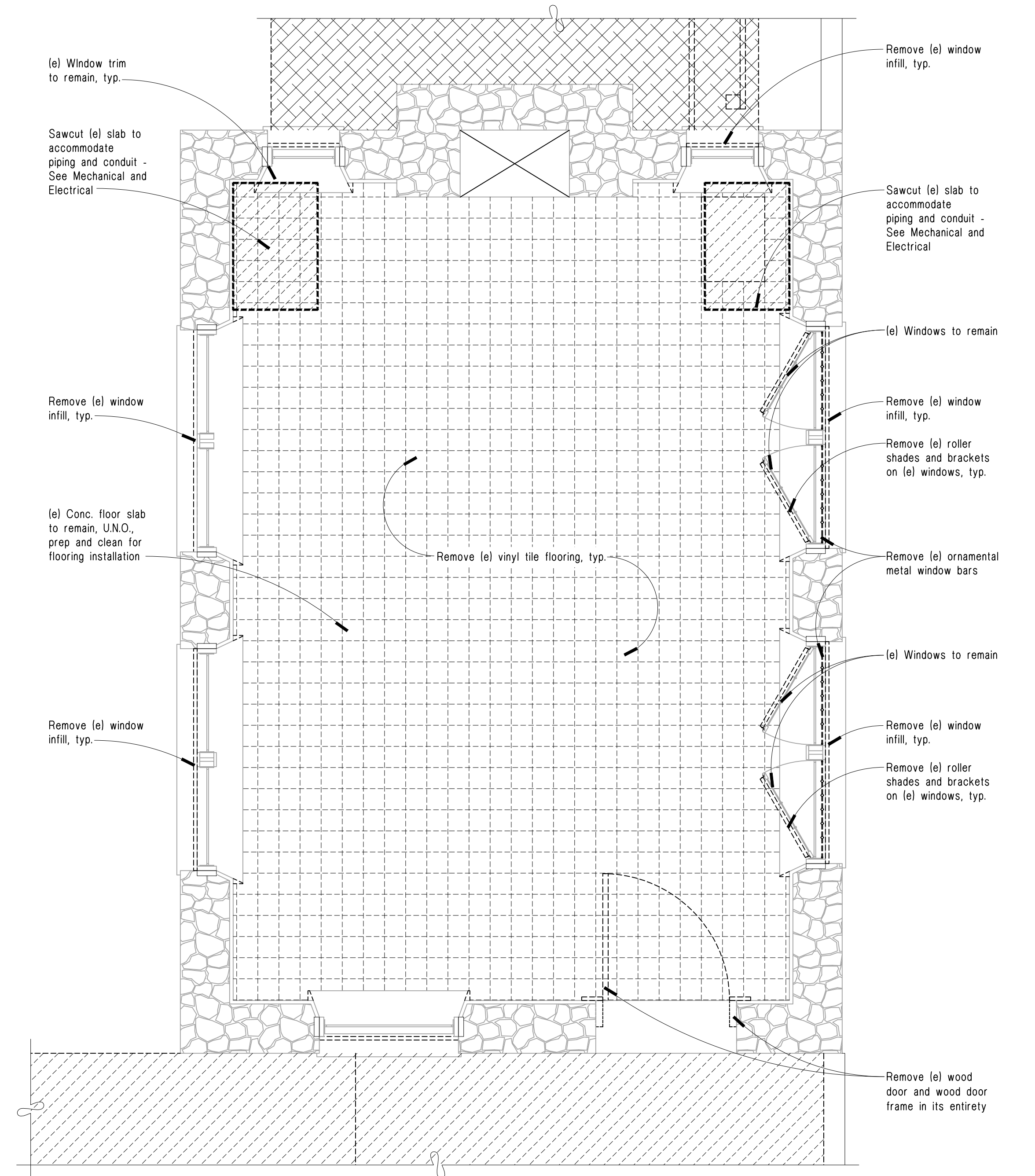
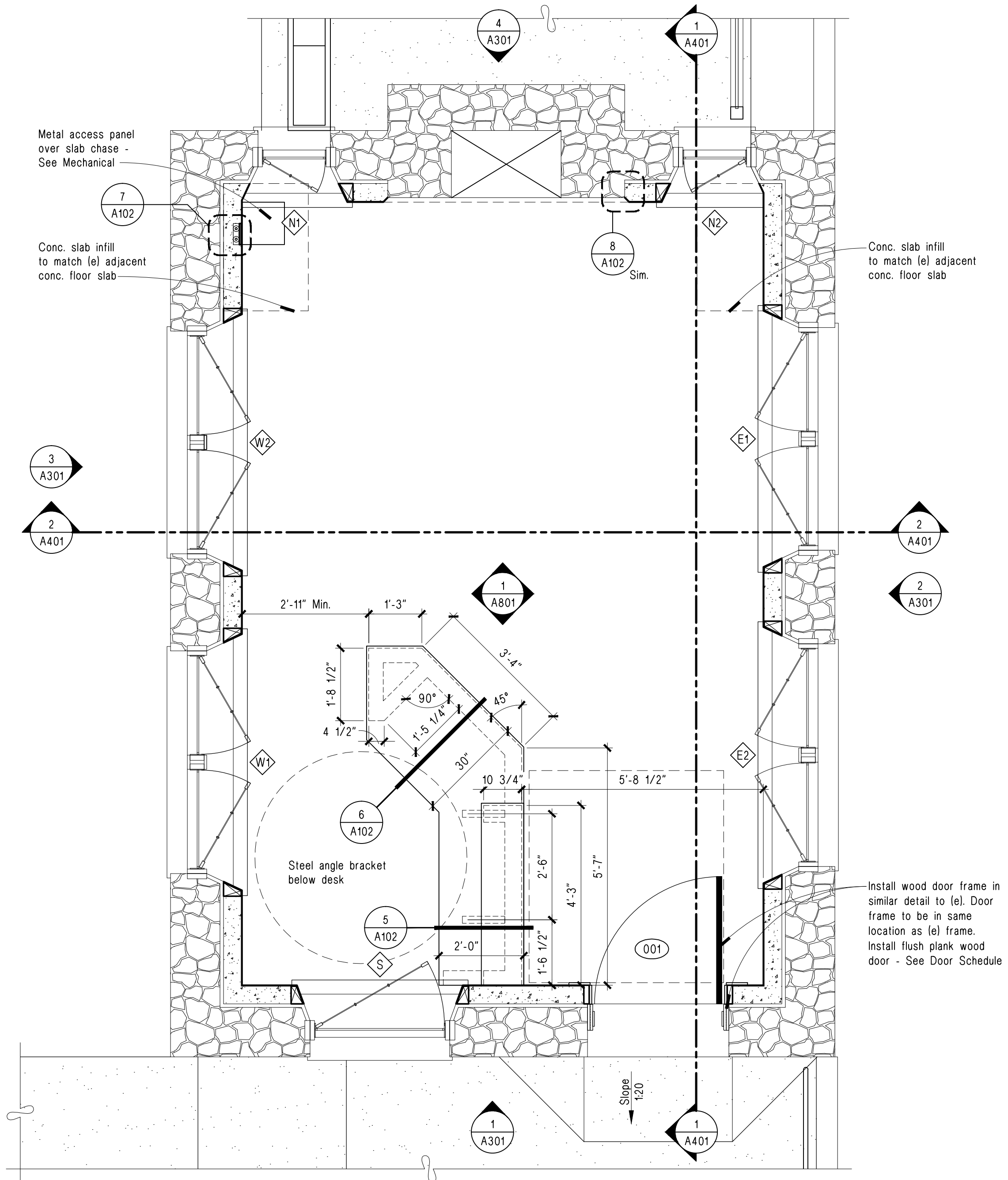
Hardware for wood doors shall be located per DHI-WDHS-3.
Hardware supplier shall coordinate keying with Owner prior to submittal.



- ### Demolition Notes
- For the purpose of Architectural work, all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demolition and alterations to utilities. Notify the Architect of any components which vary from those shown on the drawings.
 - In the event that demolition work creates a condition where existing spaces are open to the weather, the Contractor shall protect the building from the effects of exposure from exterior conditions. These conditions shall be weather-tight at the conclusion of his work each night. At the conclusion of his work in that area the Contractor is to replace all removed components to a weather-tight condition to match adjacent finishes.
 - There will be selective demolition for Structural, Electrical and Mechanical components. This demolition is to facilitate the replacement and/or new installation of Structural, Electrical and Mechanical components. Although this demolition may not appear specifically on this sheet, the Contractor shall include in his bid all demolition work for the removal of required building materials necessary for the installation of these components.
 - See Selective Demolition, Cutting and Patching sections in Project Manual for additional demolition requirements.
 - Protect adjacent surfaces to remain from damage. Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent existing surfaces.
 - Refer to Ceiling Demolition Plan for extent of ceiling demolition.
 - The Contractor shall be responsible for setting the exact limits of demolition required in order to perform his work. All finishes removed shall be patched, repaired, or replaced to match adjacent finishes.
 - Dimensions must be field verified prior to the start of work.
 - Refer to Demolition Plan and Finish Schedule for treatment of (e) walls to remain.
 - Hazardous Materials: It is unknown whether hazardous materials will be encountered in the Work.
 - Definitions:
Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
Remove and salvage: Detach items from existing construction and deliver them to the Owner.
Remove and reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
Existing to remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.



- ### Sheet Notes
- All dimensions are from face-of-stud, face of wall, or center of framed opening, unless noted otherwise.
 - Refer to Mechanical and Electrical plans for equipment related to those disciplines. All required equipment not necessarily noted on this sheet.
 - Openings, pockets, etc. shall not be placed in slabs, beams, columns, walls, etc., unless specifically detailed on the drawings.
 - Sand, grind, or patch (e) concrete floor as required to accommodate new construction. Install leveling compound as required.



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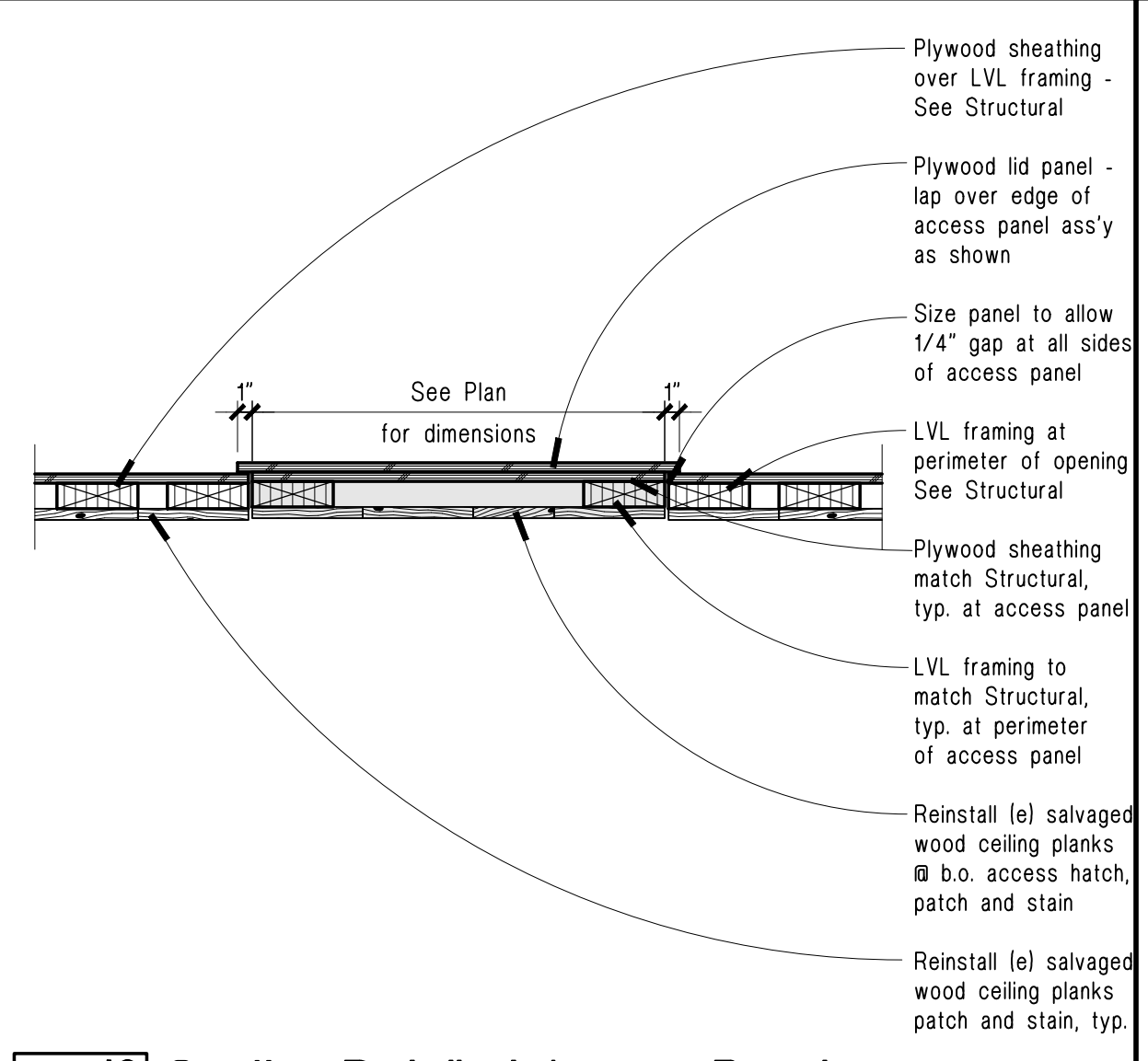
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 Welcome Center**
 State of Nevada Indian Commission
 5366 Snyder Avenue, Building 2
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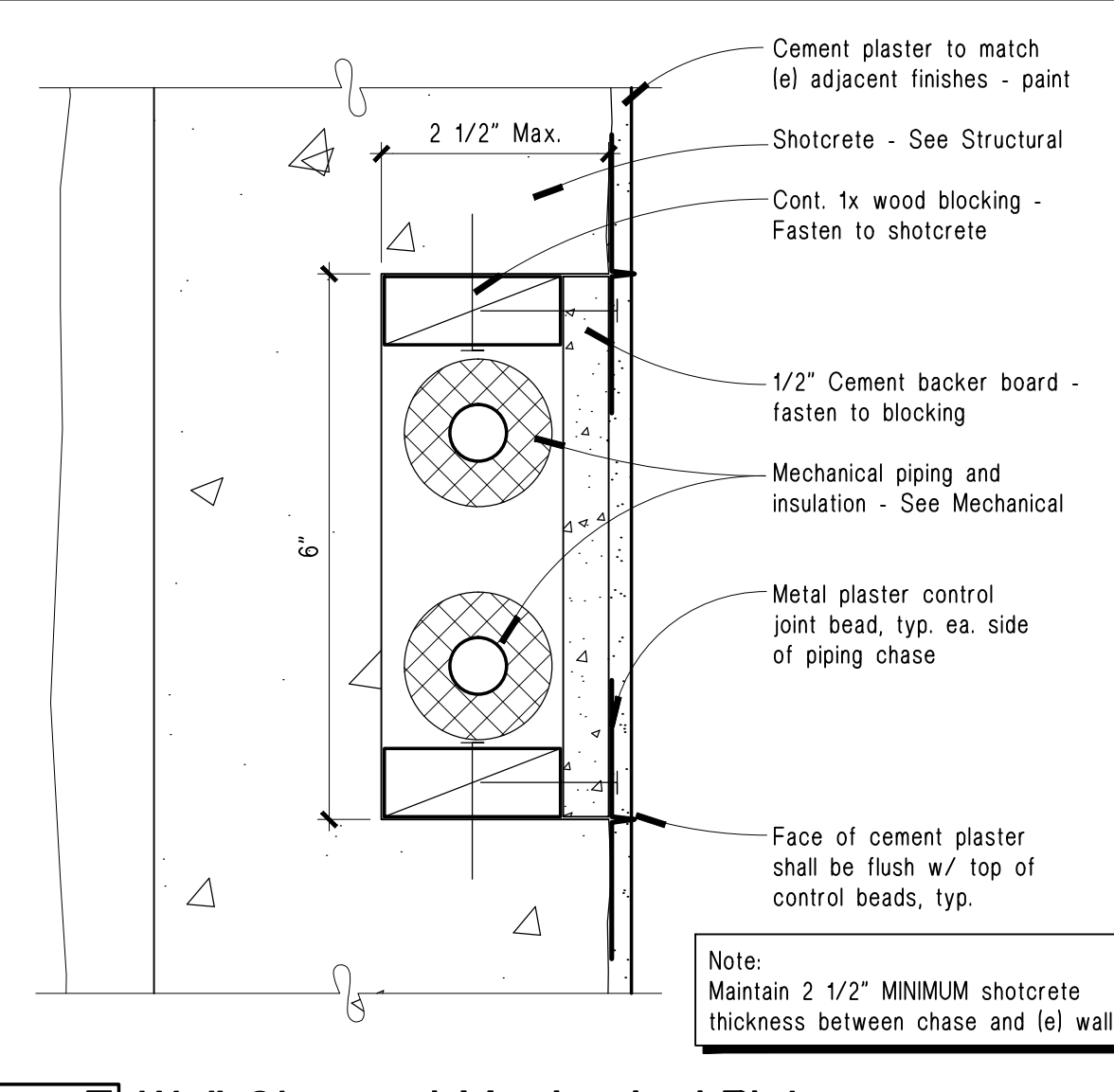
Floor Plans

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A101

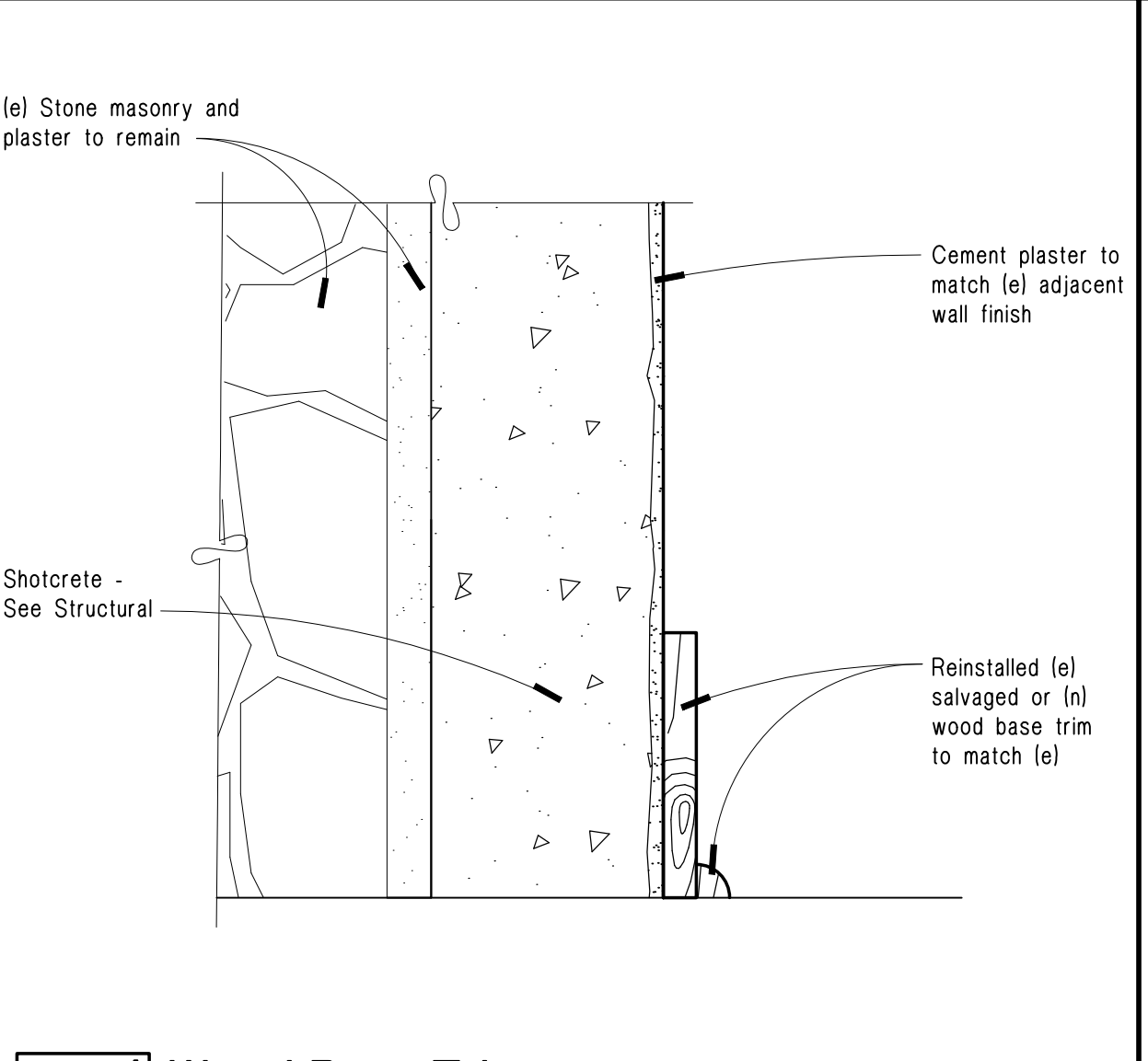




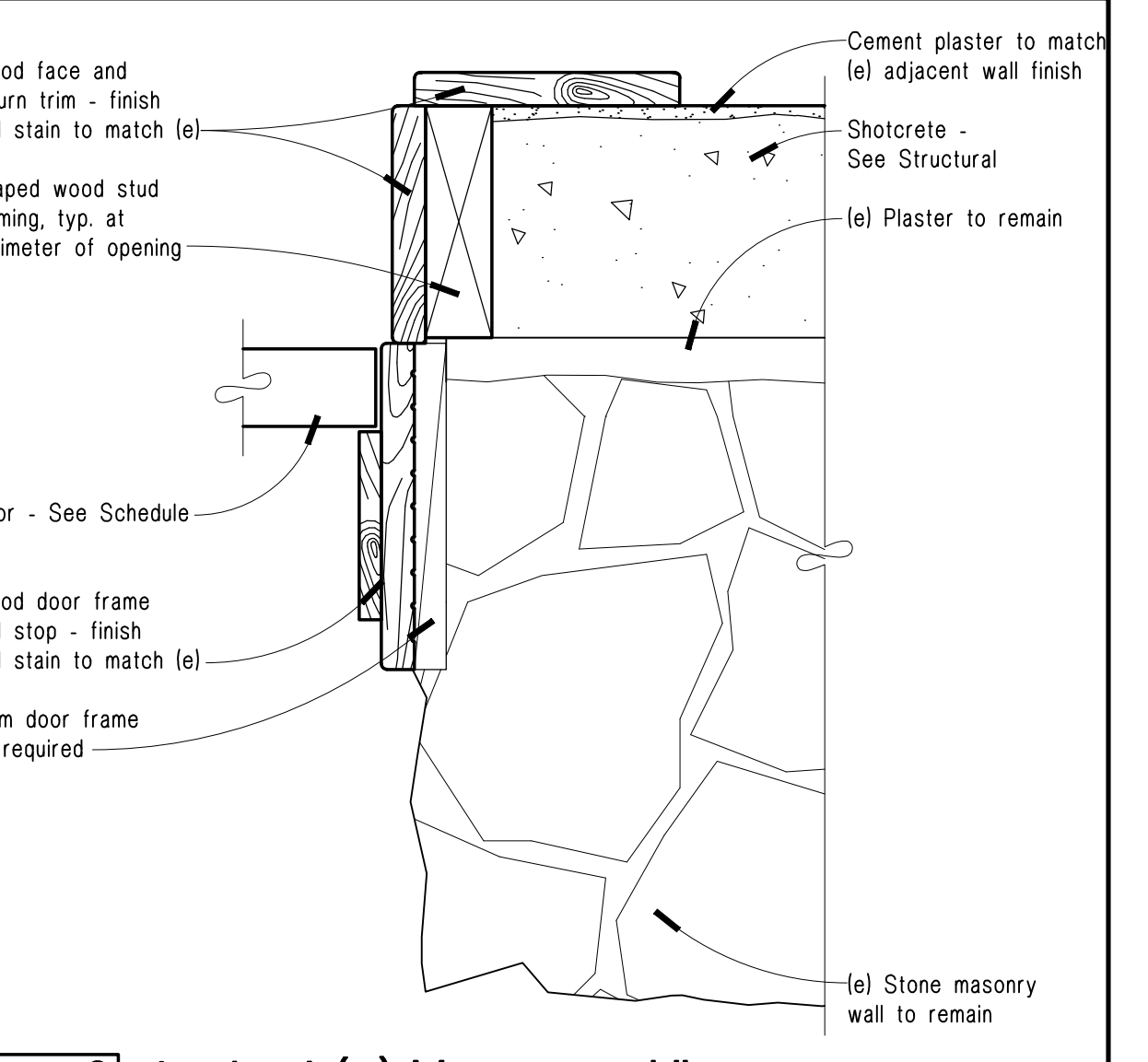
10 Section Detail at Access Panel
1" = 1'-0"



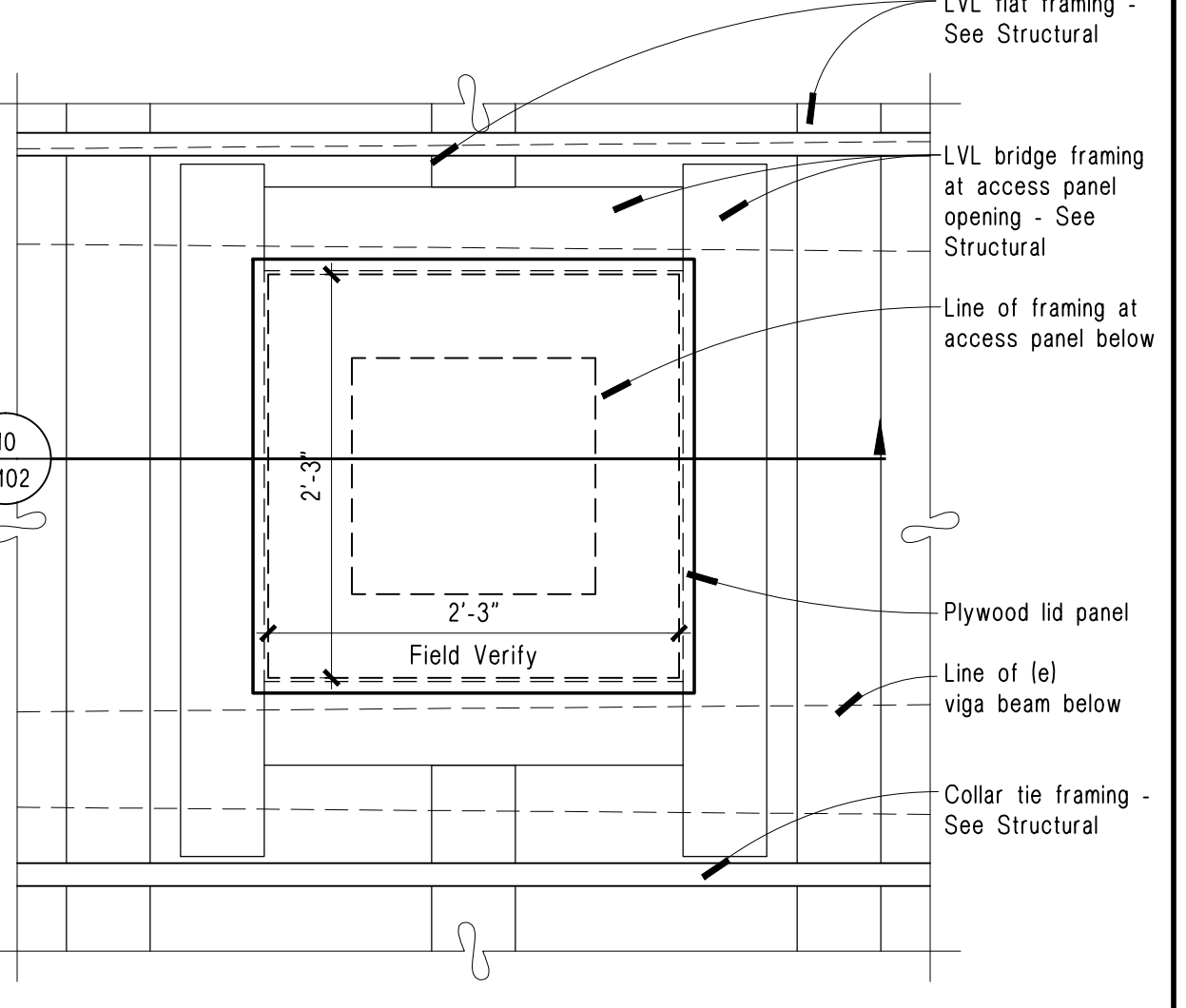
7 Wall Chase at Mechanical Piping
6" = 1'-0"



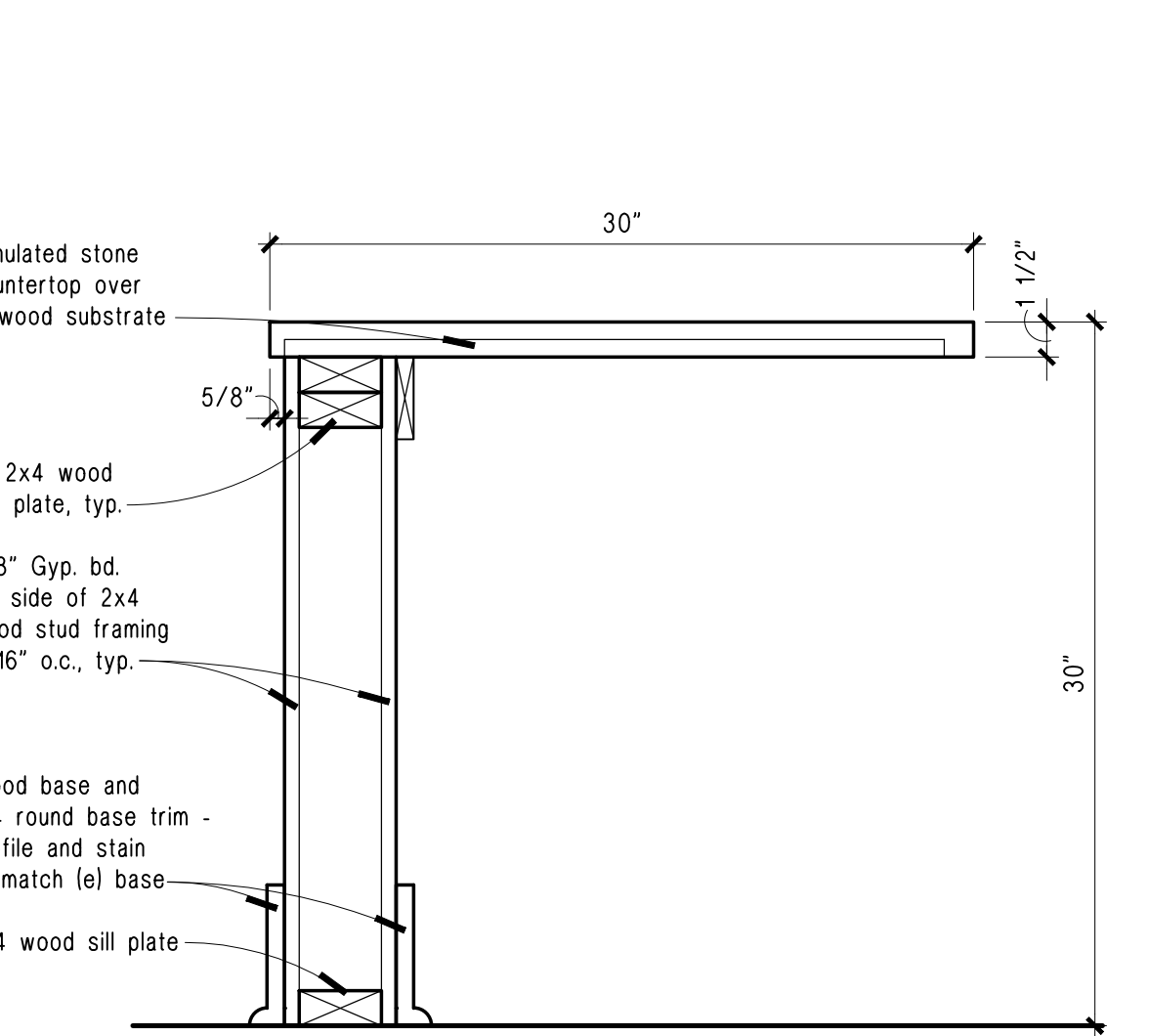
4 Wood Base Trim
3" = 1'-0"



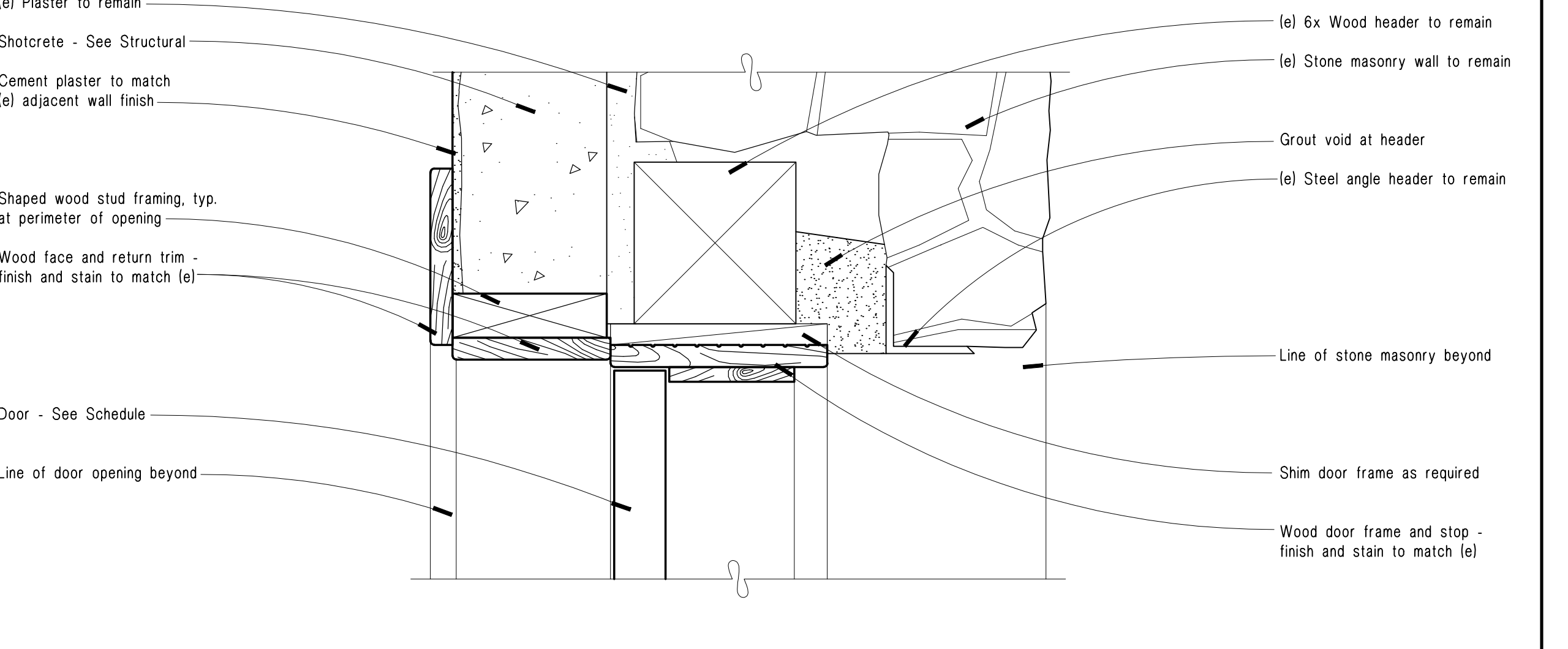
3 Jamb at (e) Masonry - Hinge
3" = 1'-0"



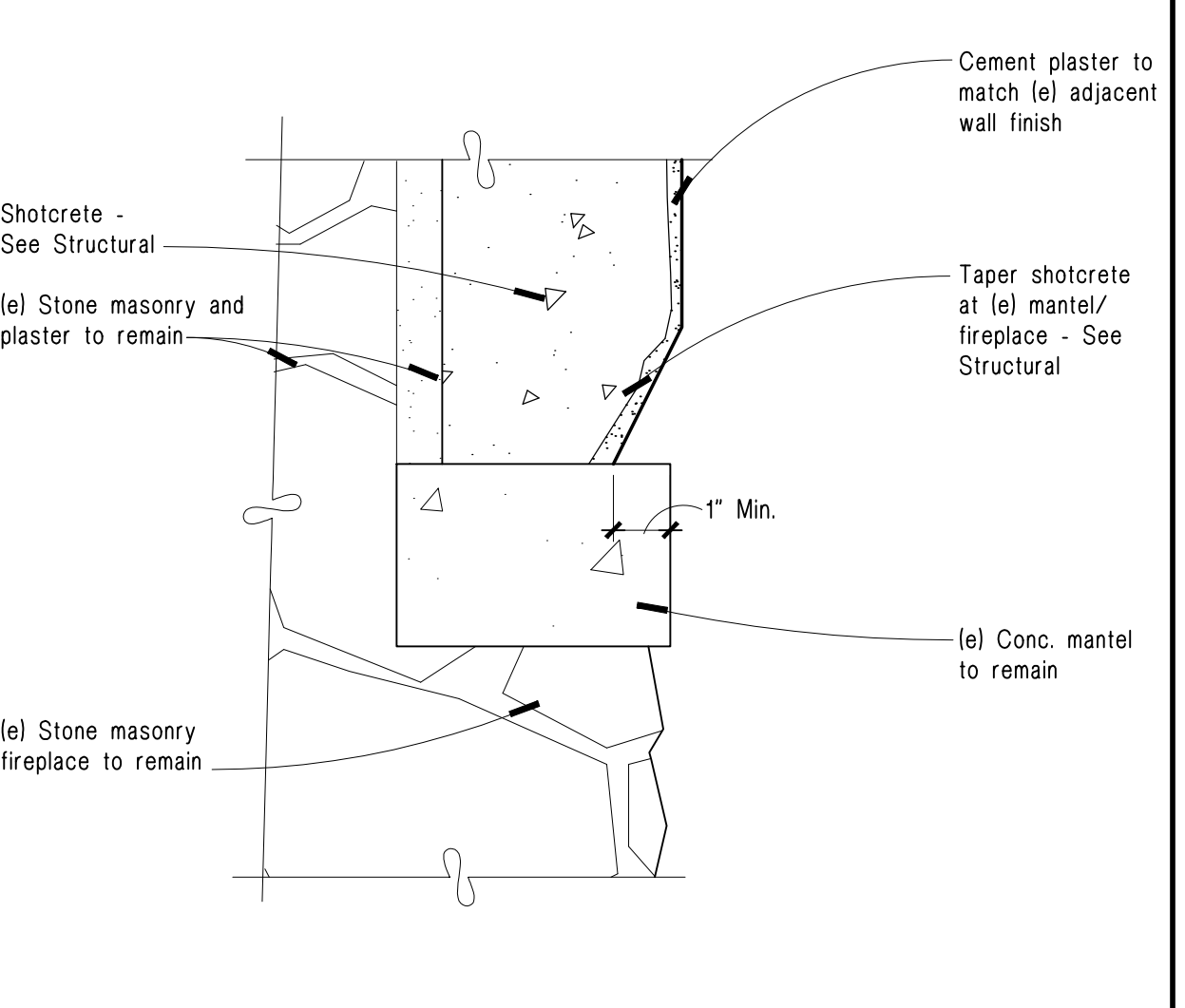
9 Plan Detail at Access Panel
1" = 1'-0"



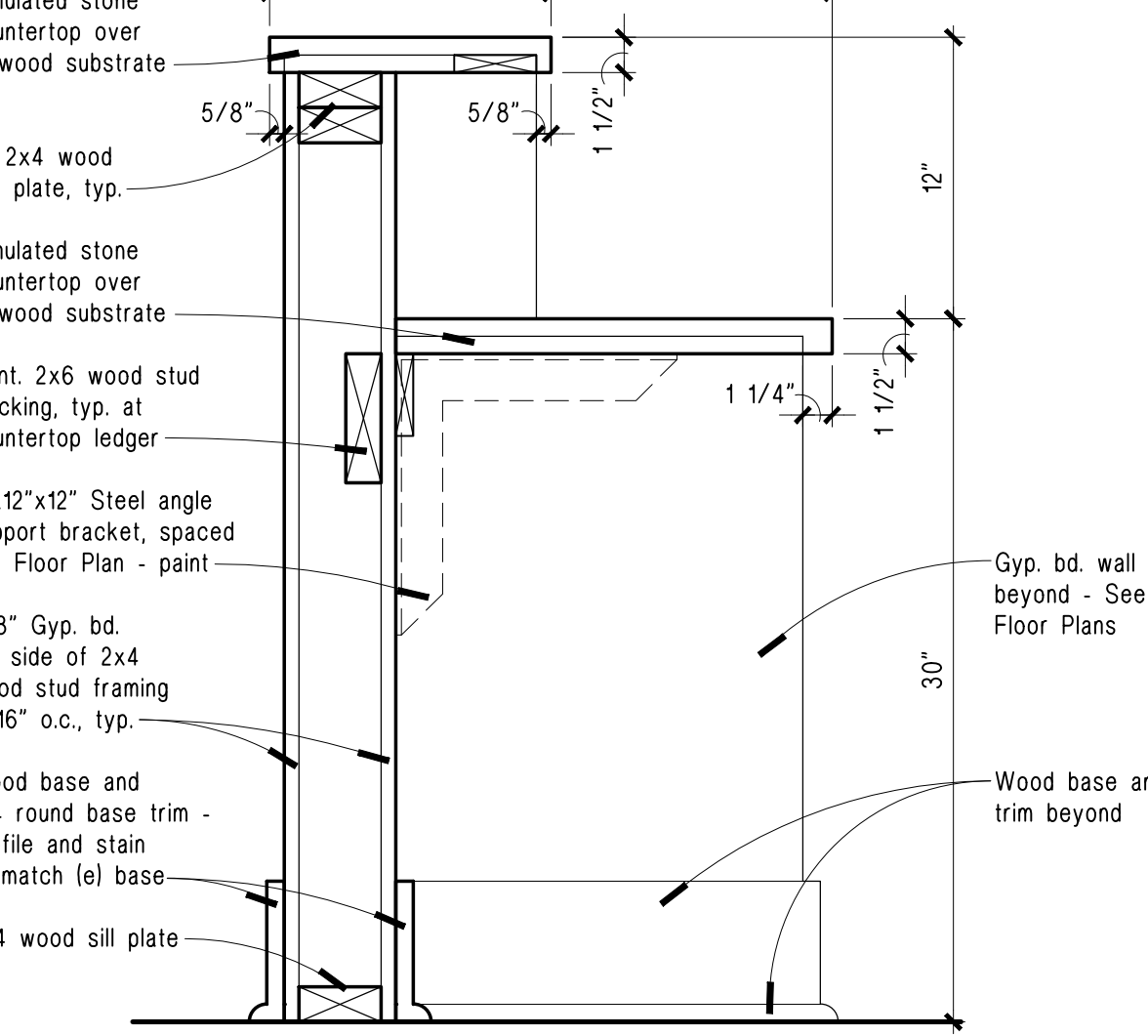
6 Counter at Information Desk
1 1/2" = 1'-0"



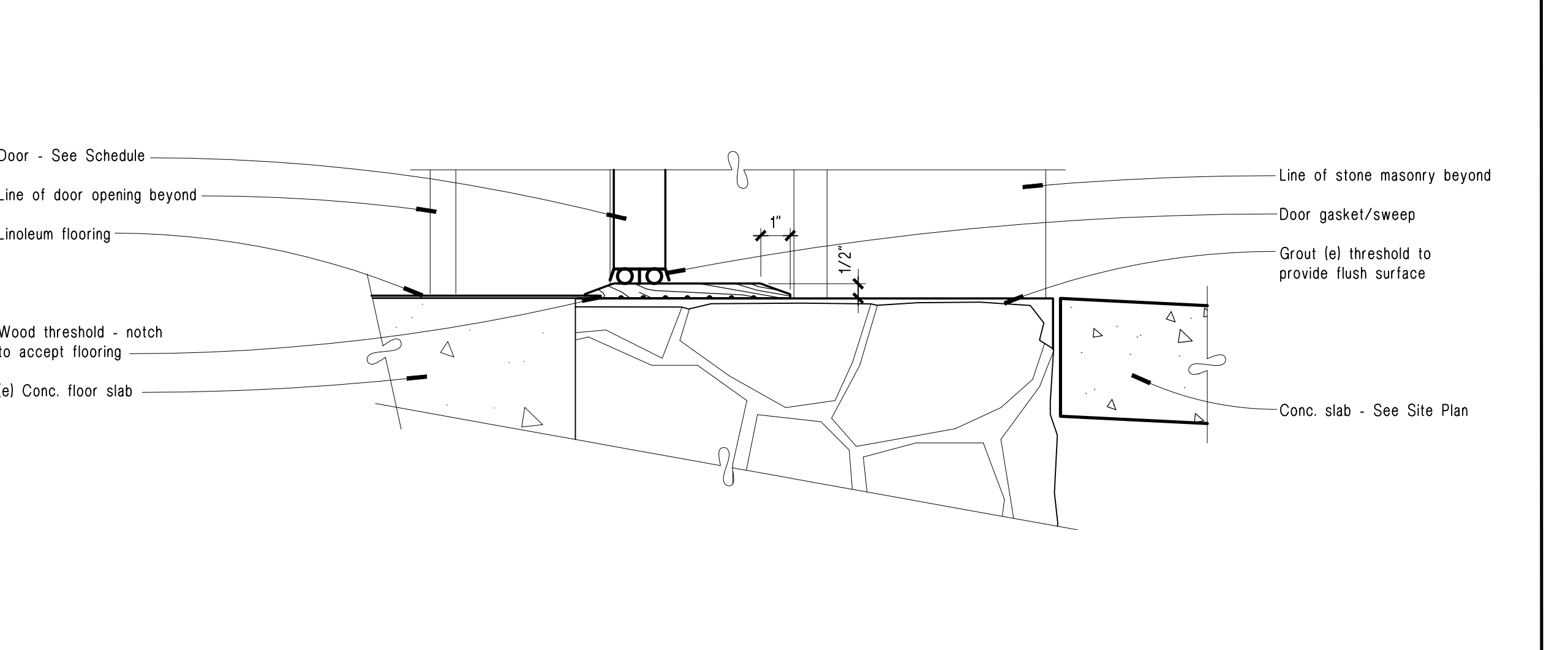
2 Head at (e) Masonry
3" = 1'-0"



8 Plaster Reveal at Fireplace
3" = 1'-0"



5 Counter and Desk at South Wall
1 1/2" = 1'-0"



1 Transition at (e) Conc. Slab
3" = 1'-0"

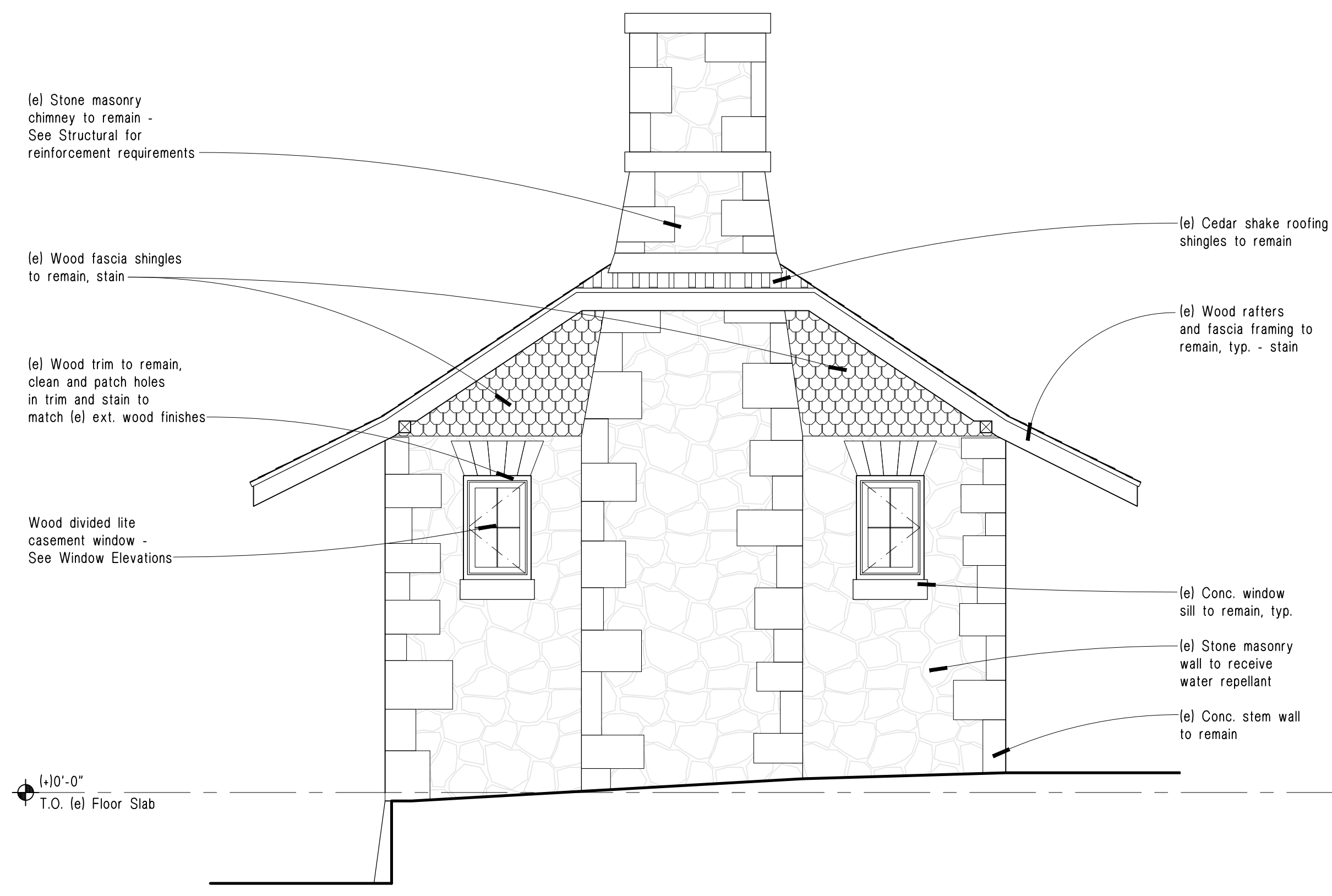


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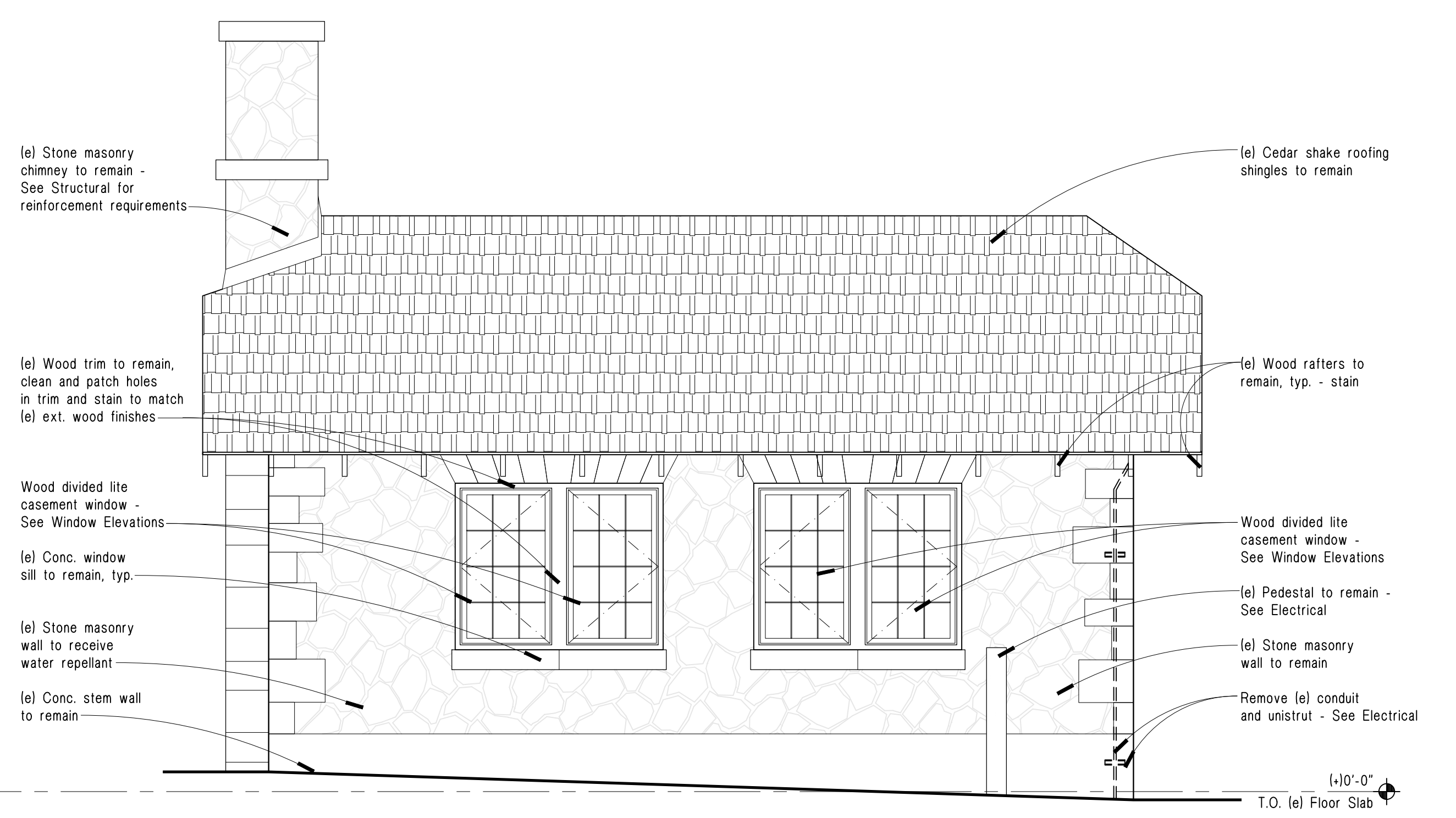
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Welcome Center**
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Casework + Finish
Details
August 19, 2016
H+K Project No.: 1604B
A102



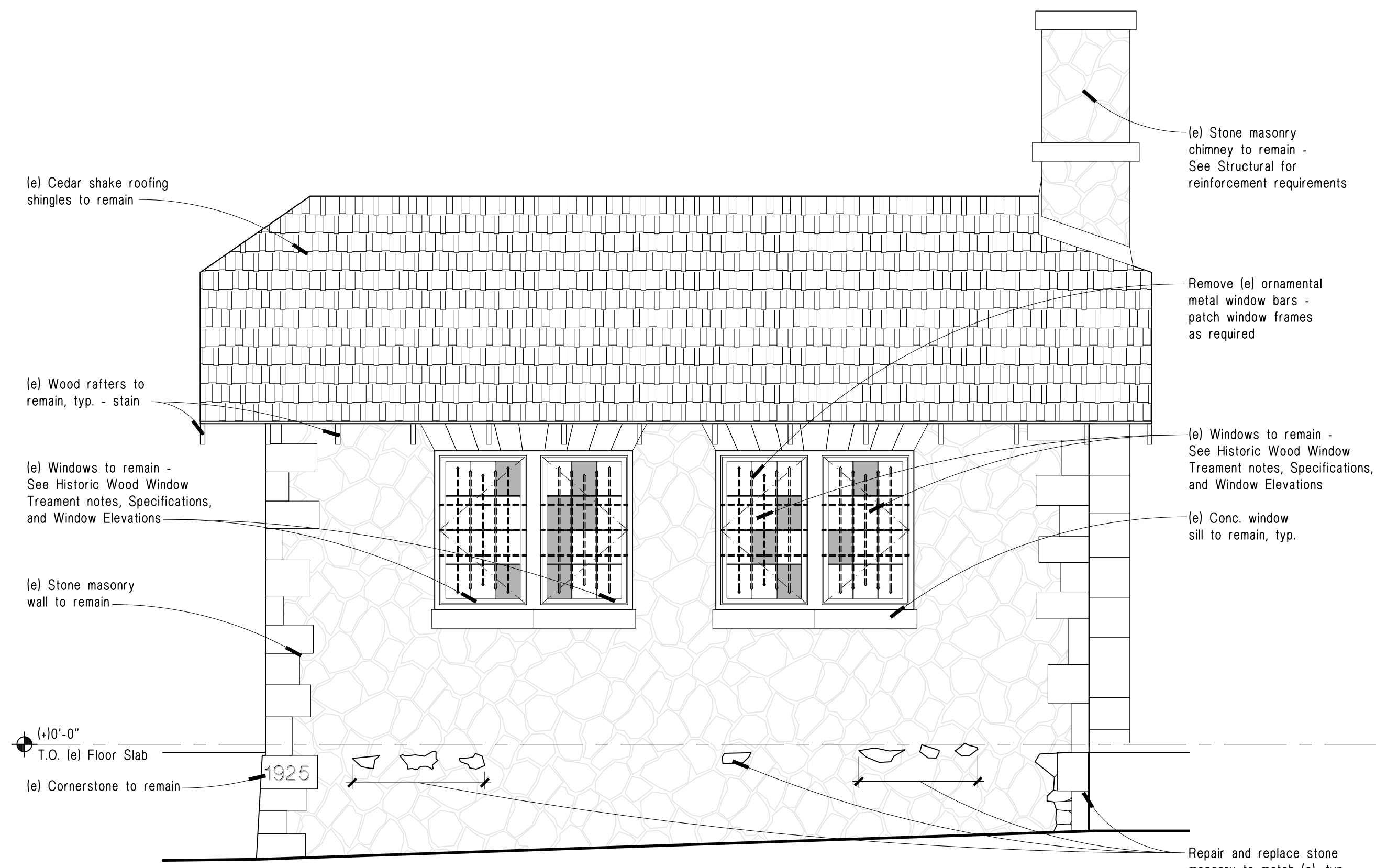
4 North Elevation

3/8" = 1'-0"



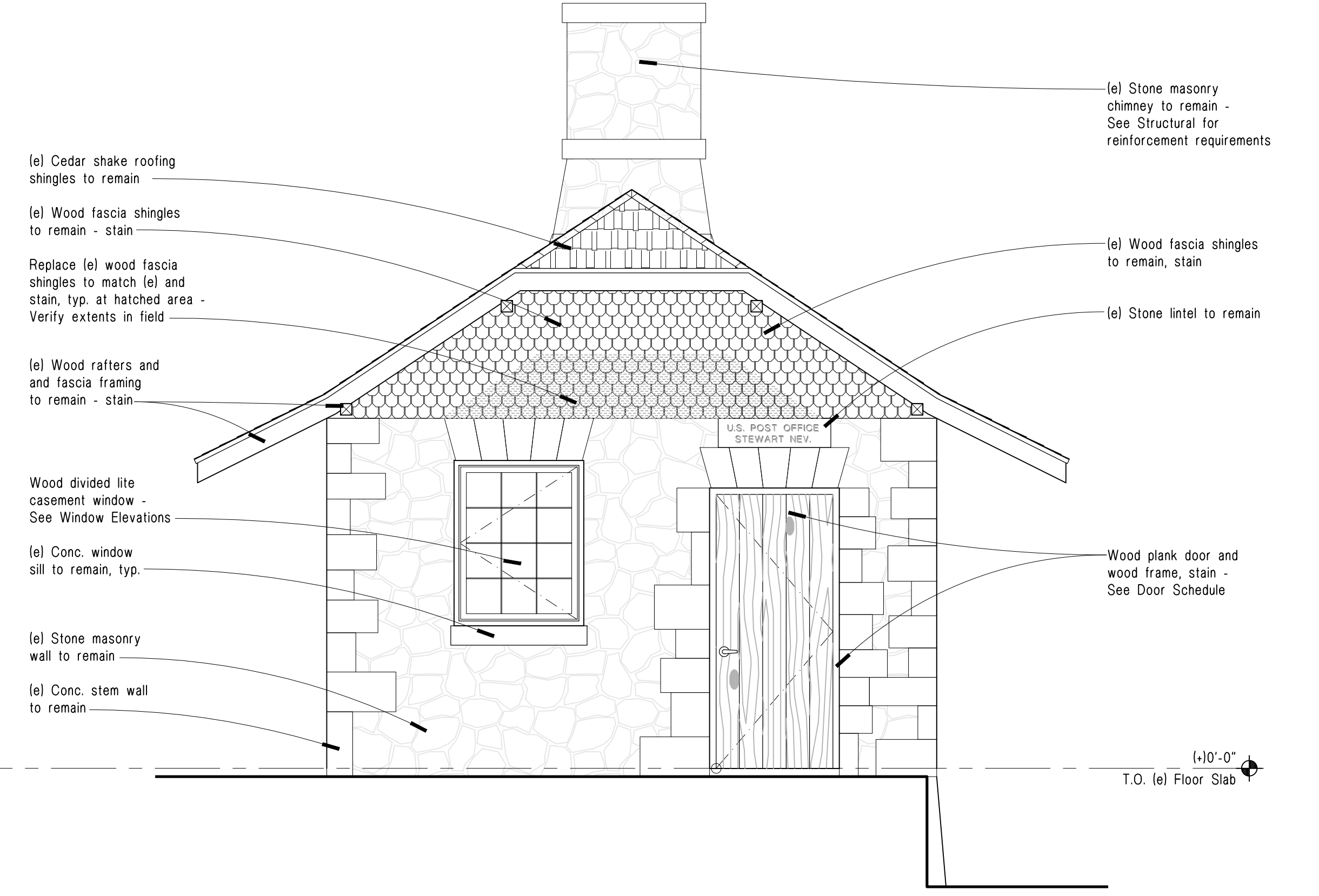
2 West Elevation

3/8" = 1'-0"



3 East Elevation

3/8" = 1'-0"



1 South Elevation

3/8" = 1'-0"

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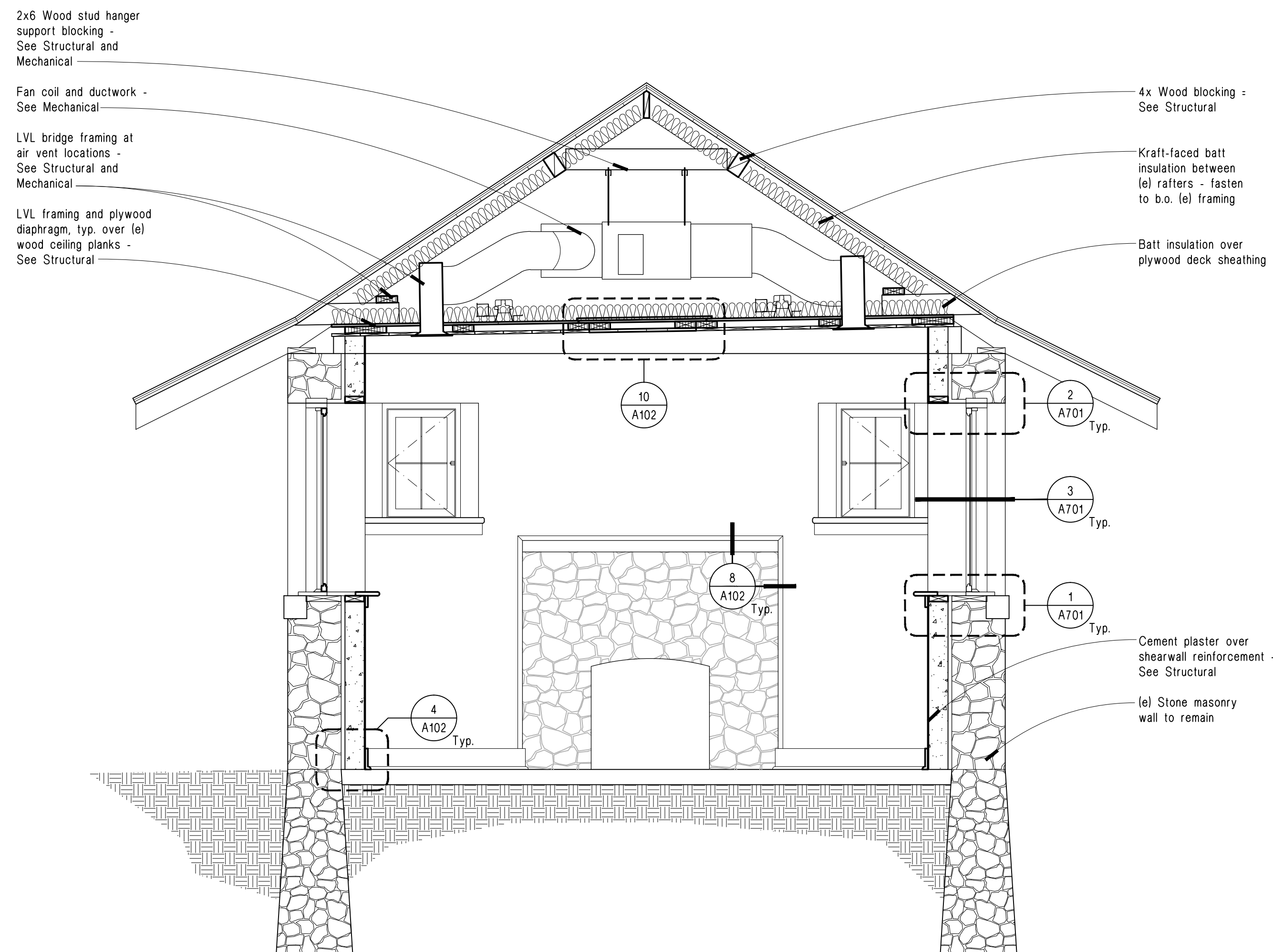


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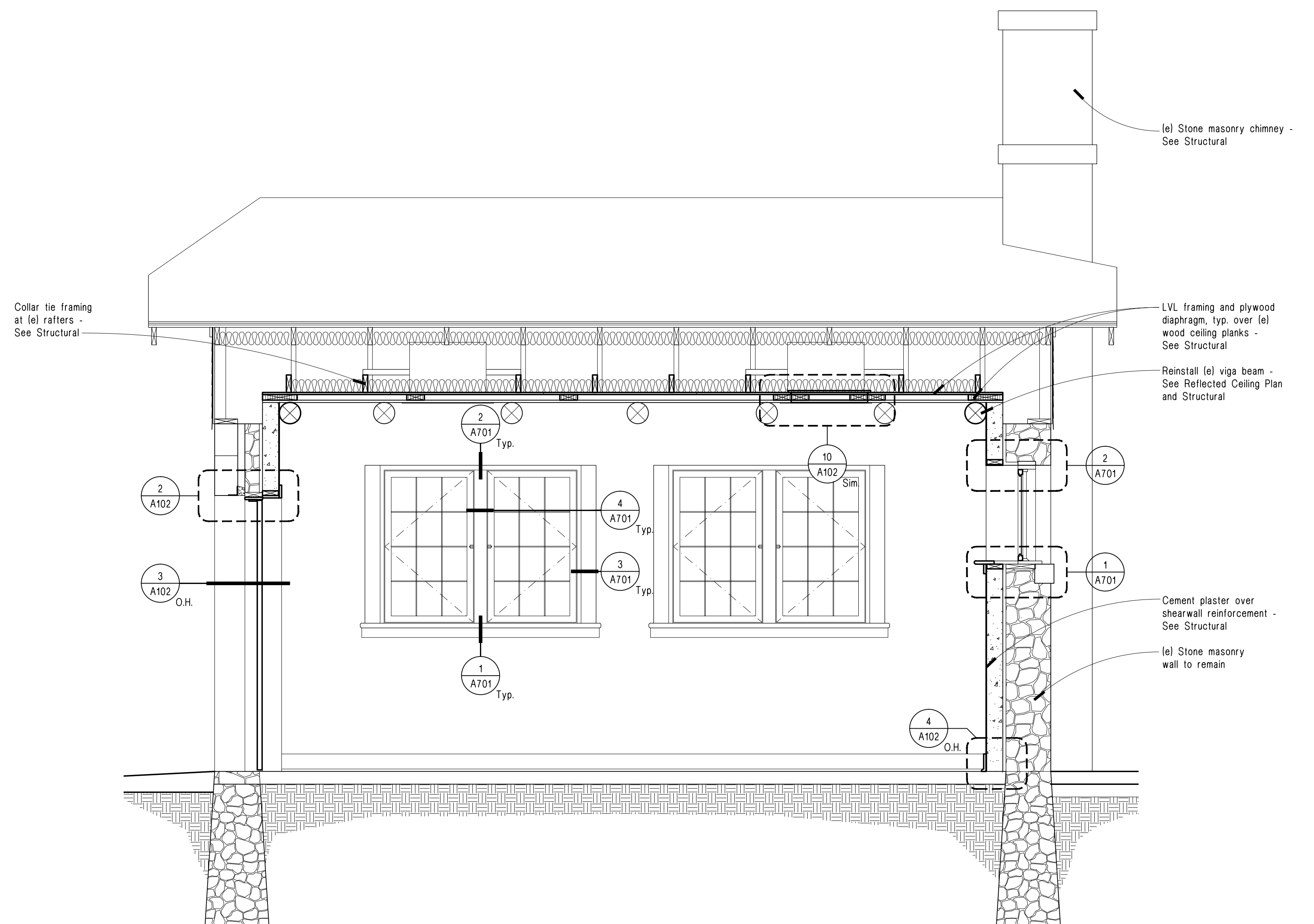
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Exterior Elevations
 August 19, 2016
 H+K Project No.: 1604B
A301



2 Cross Section

1/2" = 1'-0"



1 Longitudinal Section

1/2" = 1'-0"

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Building Sections

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H+K Project No.: 1604B

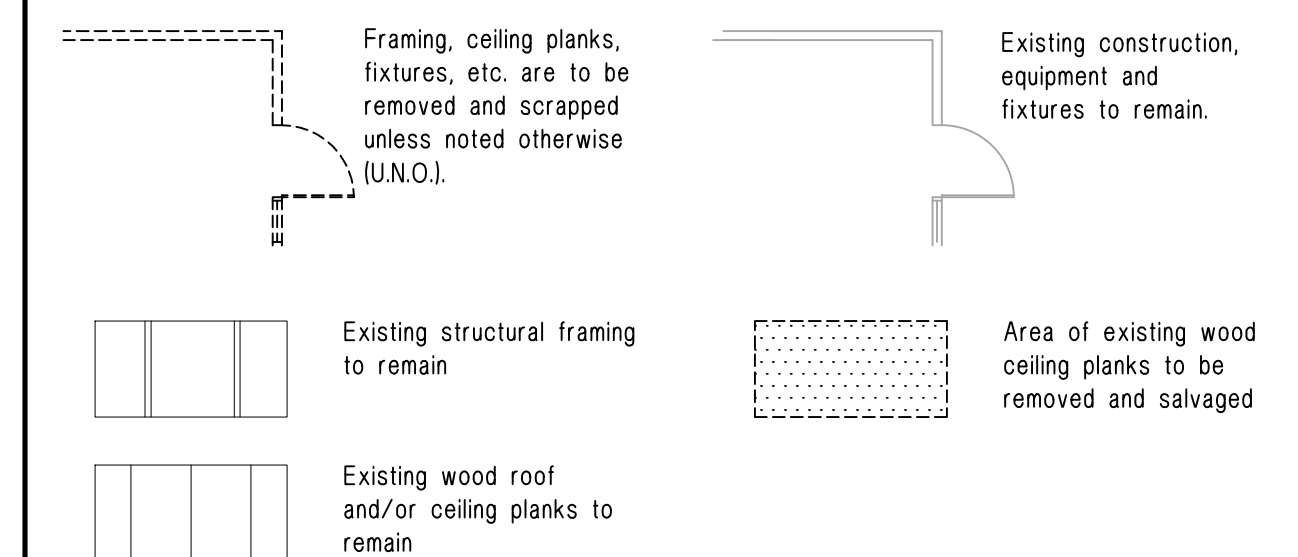
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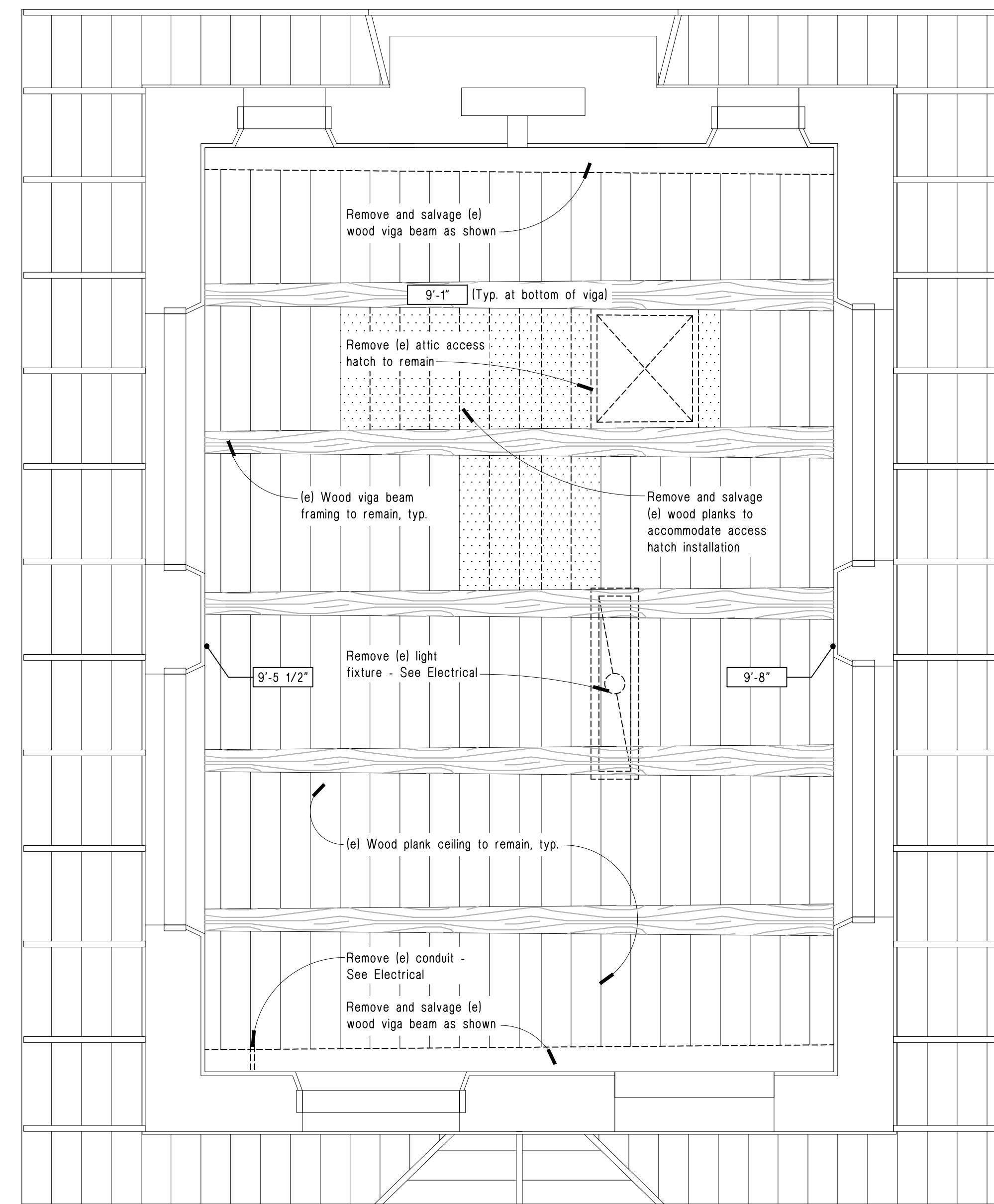
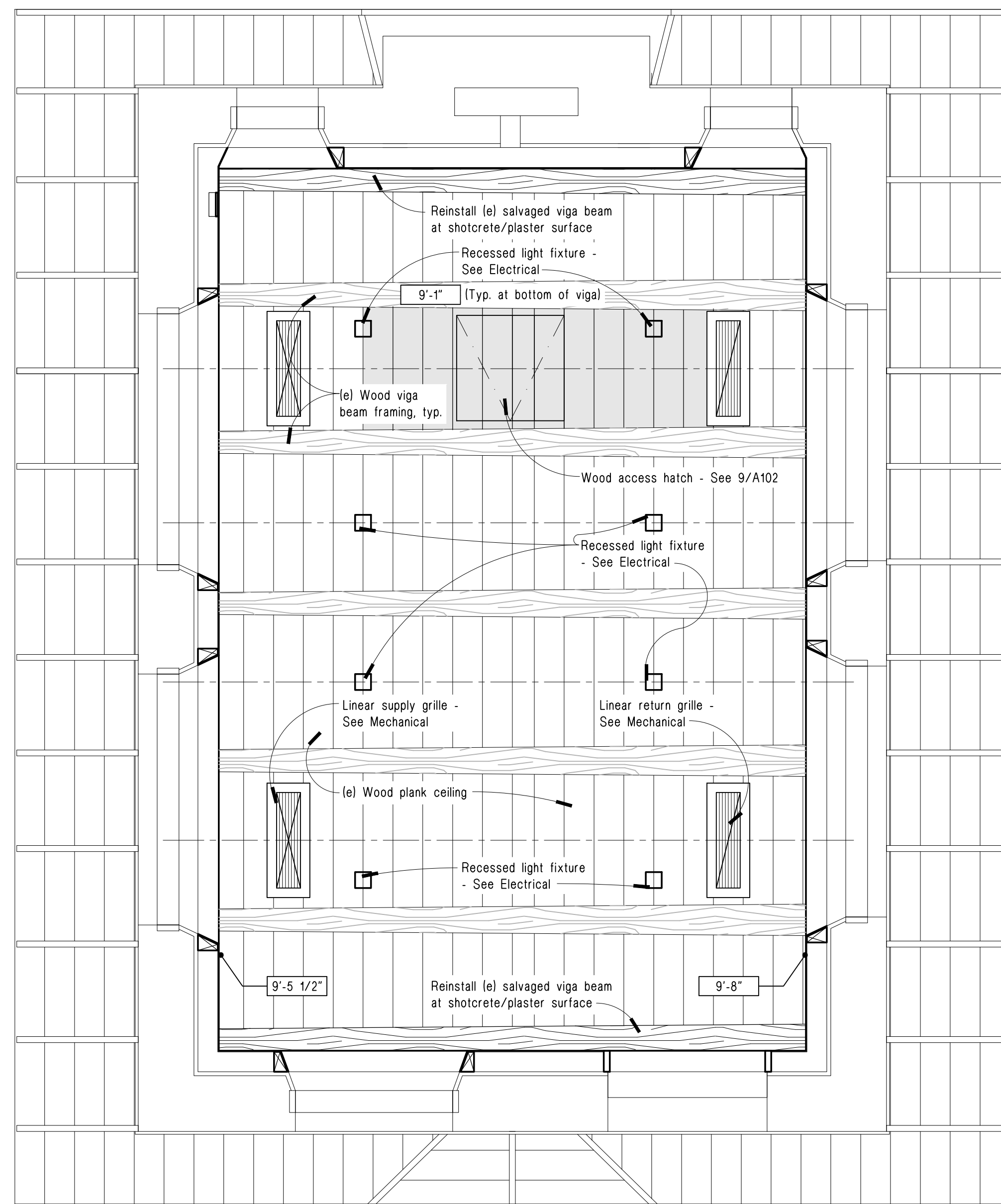
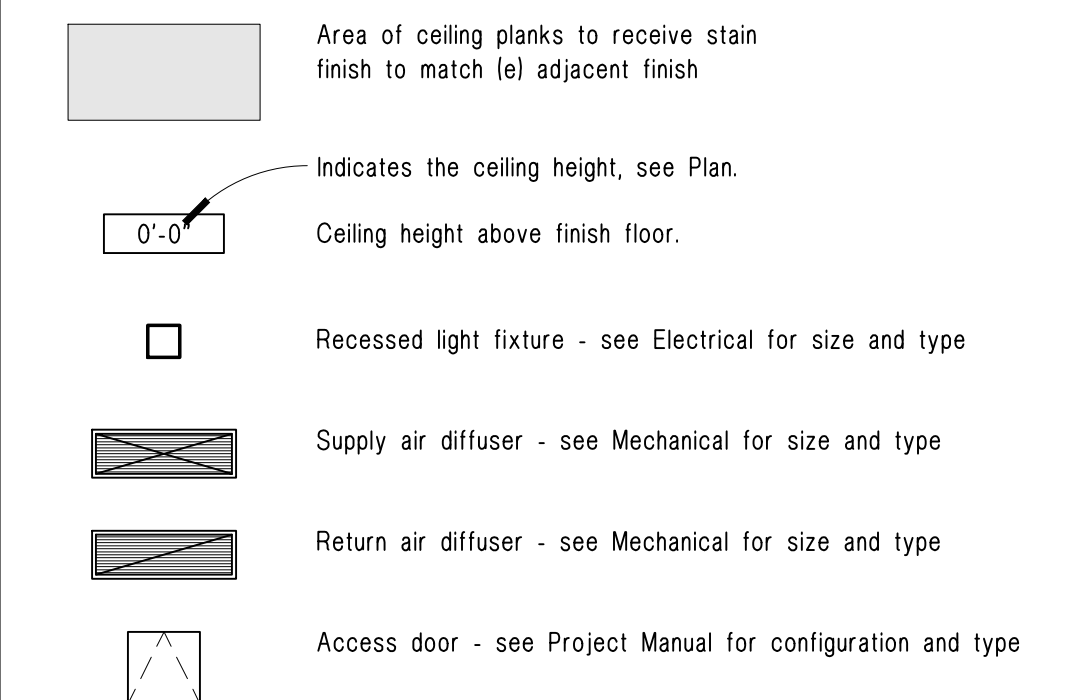
Ceiling Demolition Notes

- For the purpose of Architectural work, all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demolition.
- In the event that demolition work creates a condition where existing spaces are open to the weather, the Contractor shall protect the building from the effects of exposure from exterior condition. These conditions shall be weather-tight at the conclusion of his work each night. At the conclusion of his work in that area the Contractor is to replace all removed components to a weather-tight condition to match adjacent finishes.
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- See Selective Demolition and Cutting and Patching sections in Project Manual for additional demolition requirements.

Ceiling Plan Demolition Legend



Ceiling Plan Legend



2 Reflected Ceiling Alteration Plan



1 Reflected Ceiling Demolition Plan



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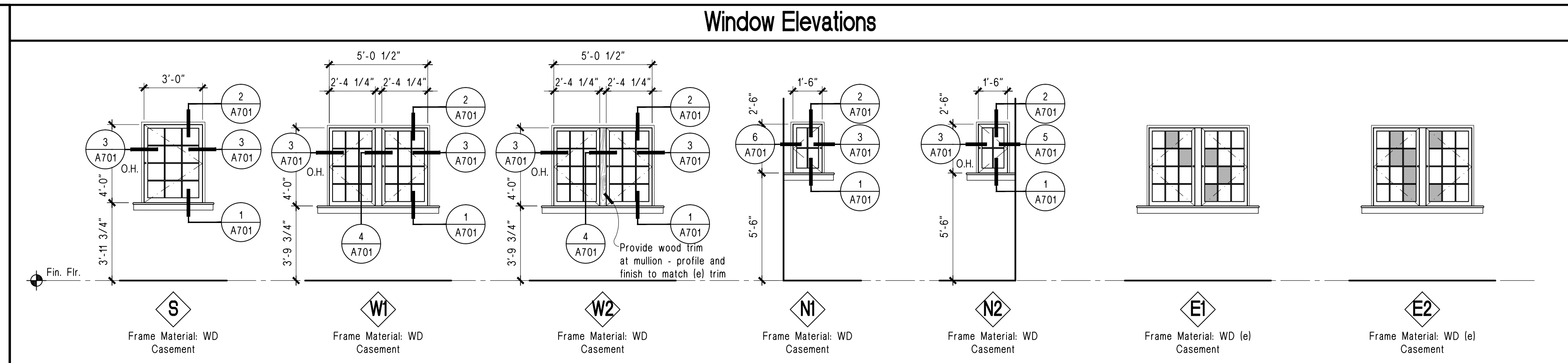
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Reflected Ceiling Plans

August 19, 2016
H+K Project No.: 1604B

A601





Glazing and Material Legends

Glazing Legend	Material Legend
G1 1/8" Tempered clear glass	WD Wood

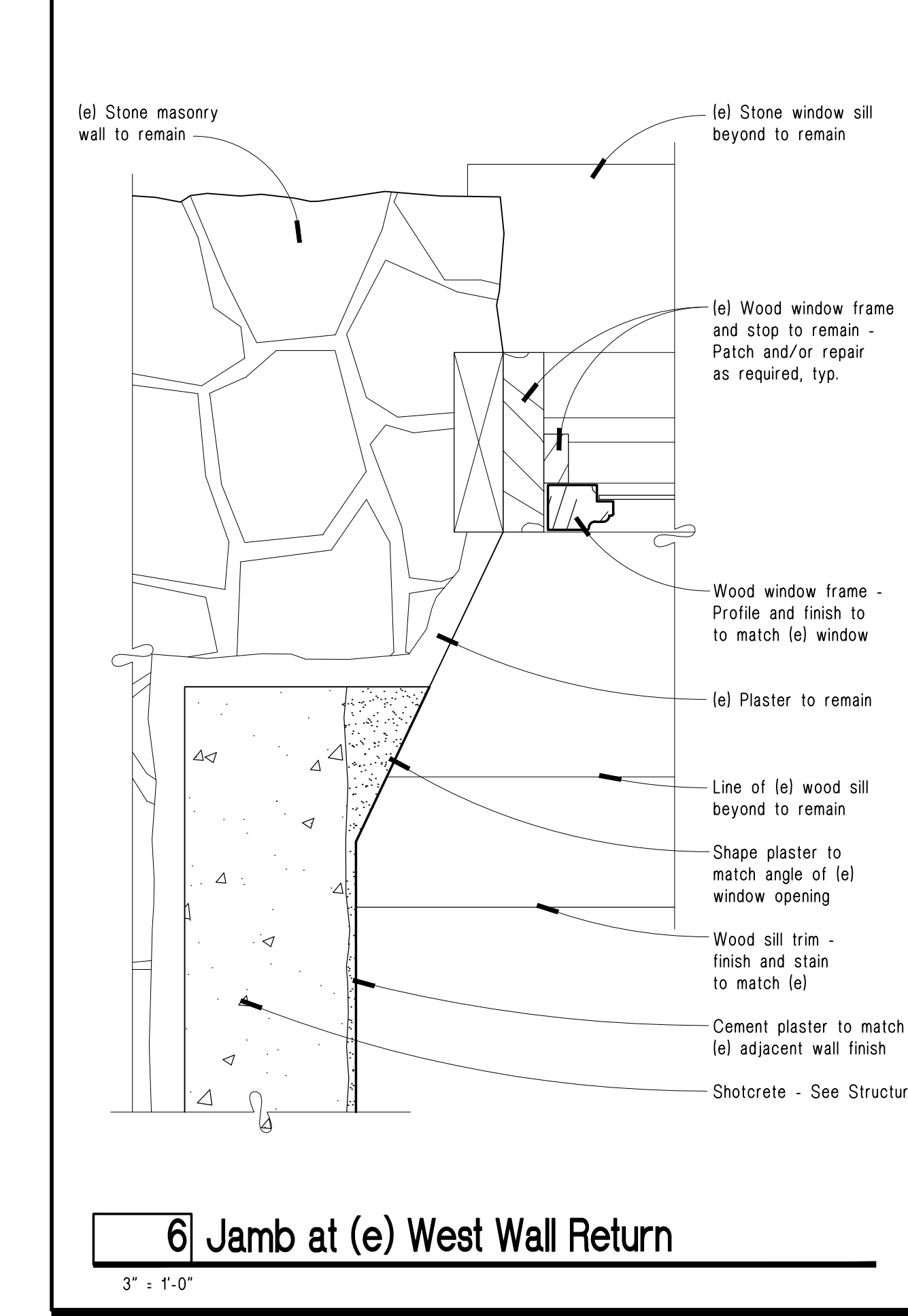
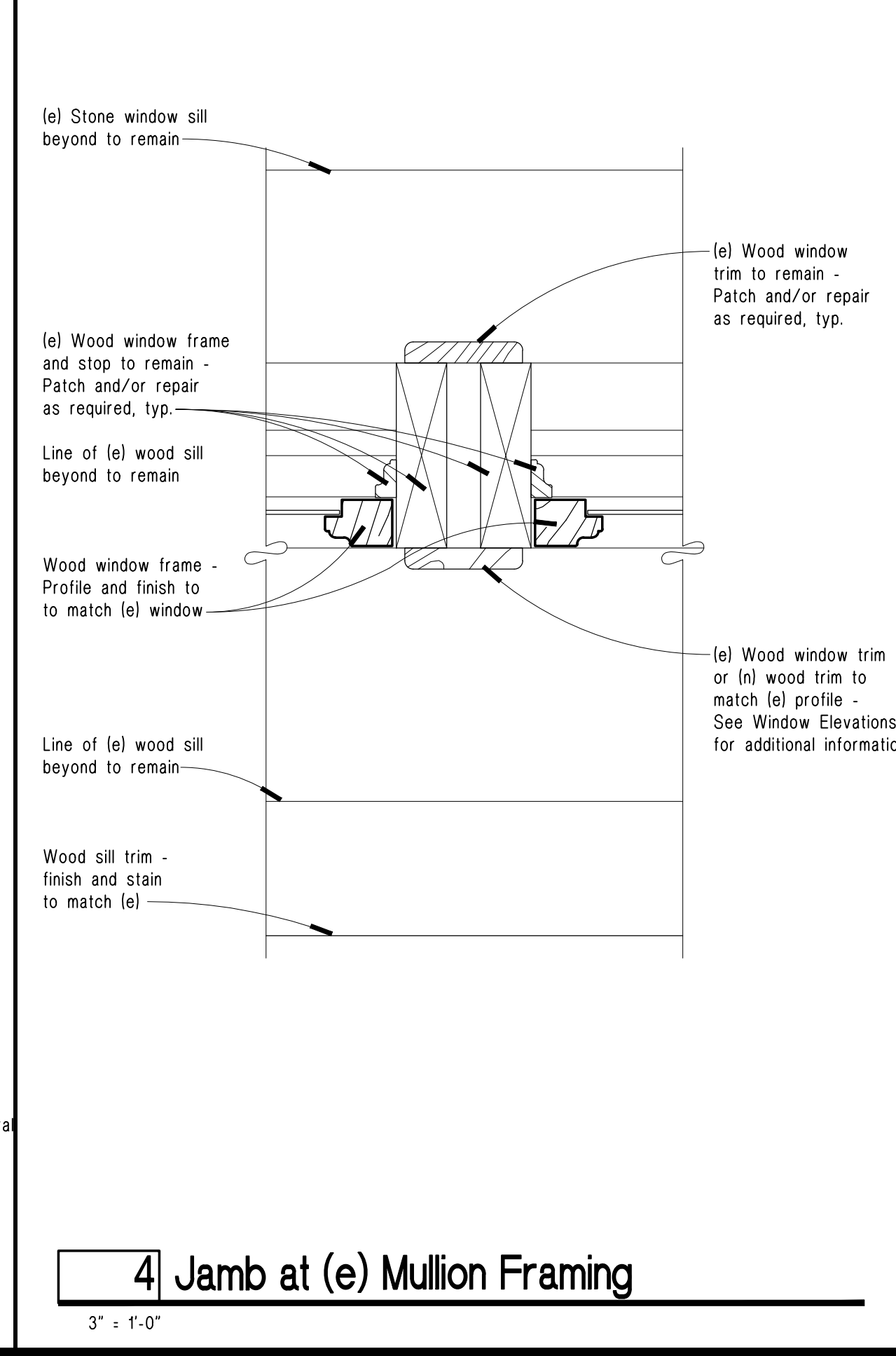
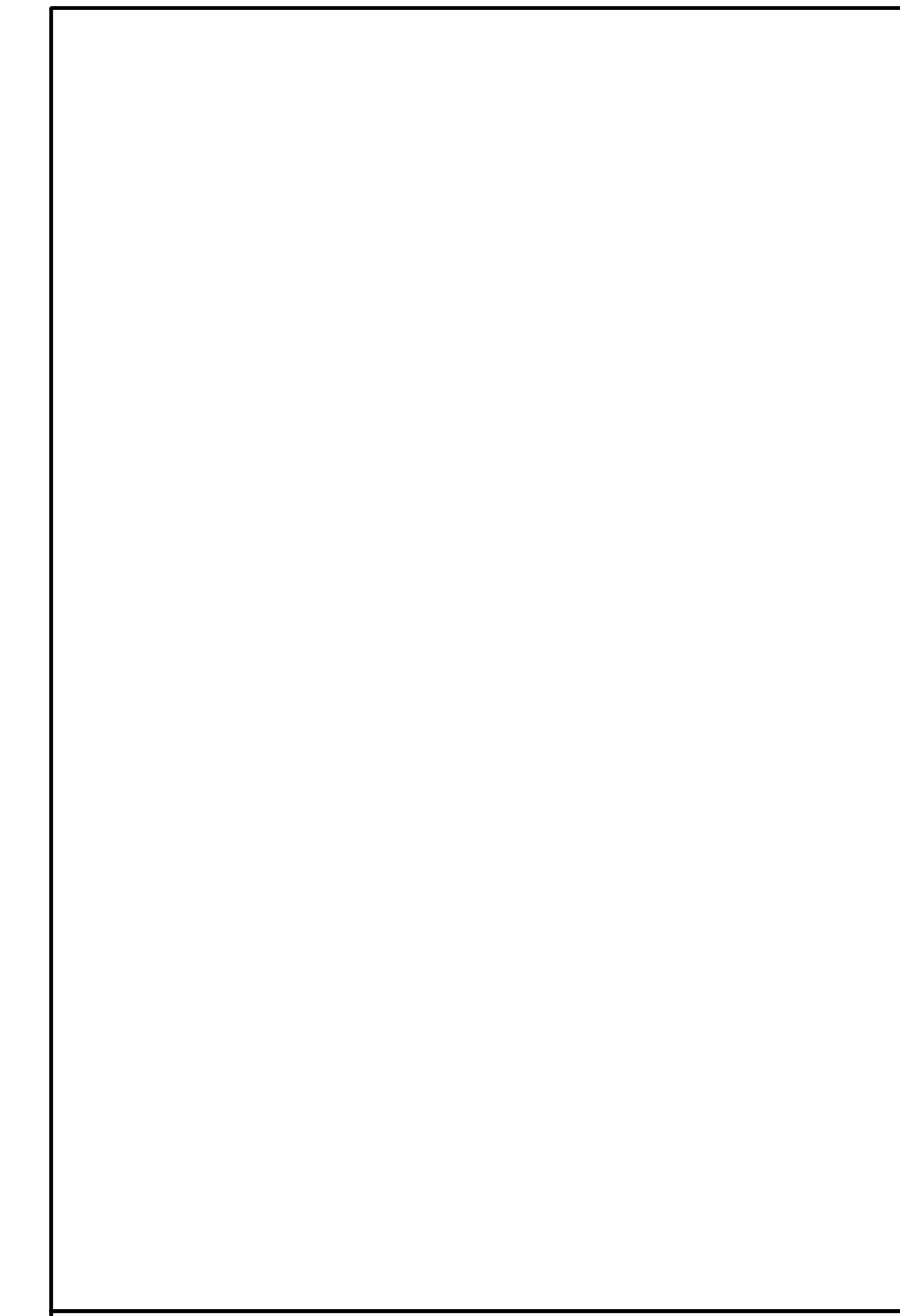
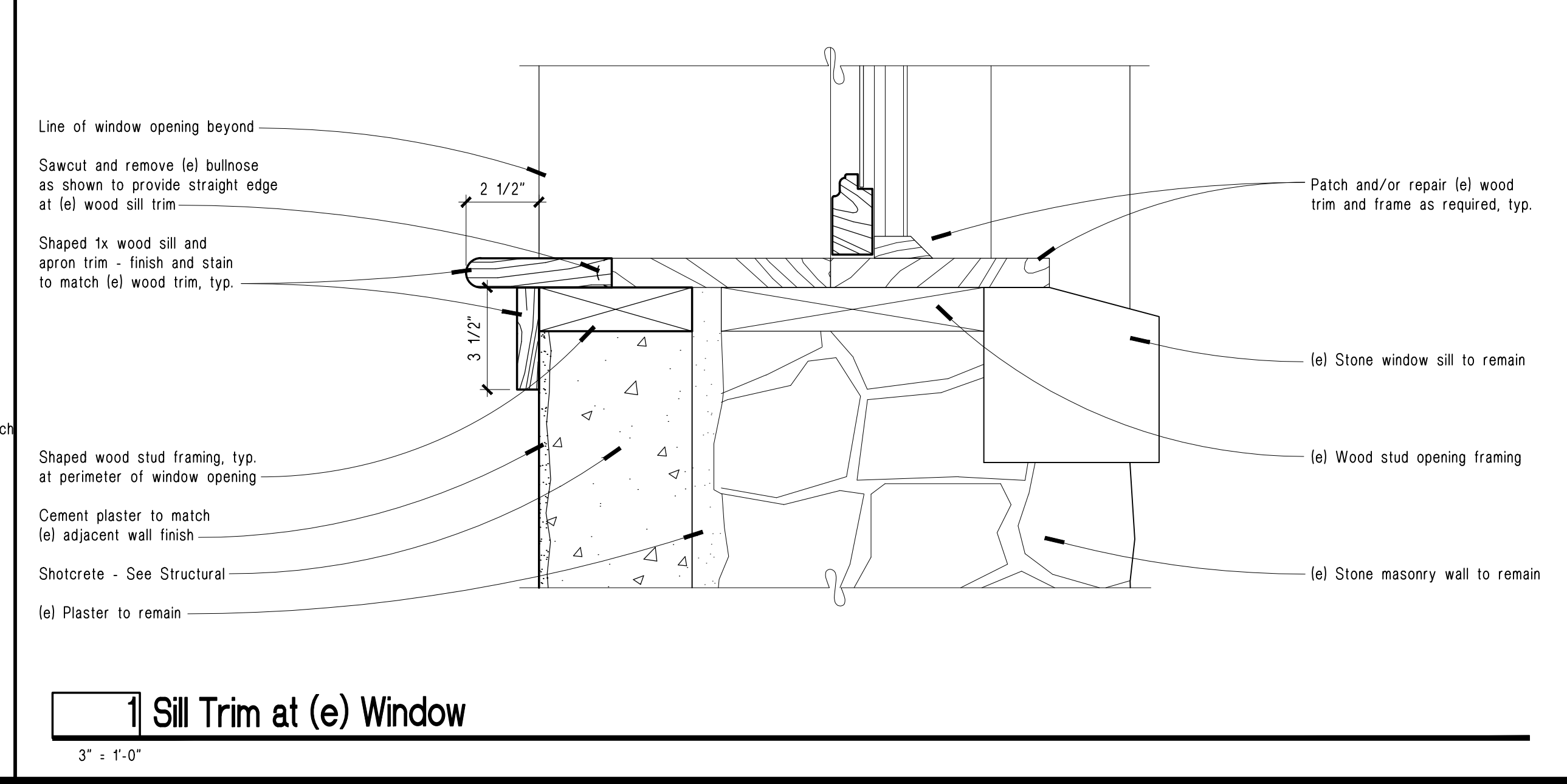
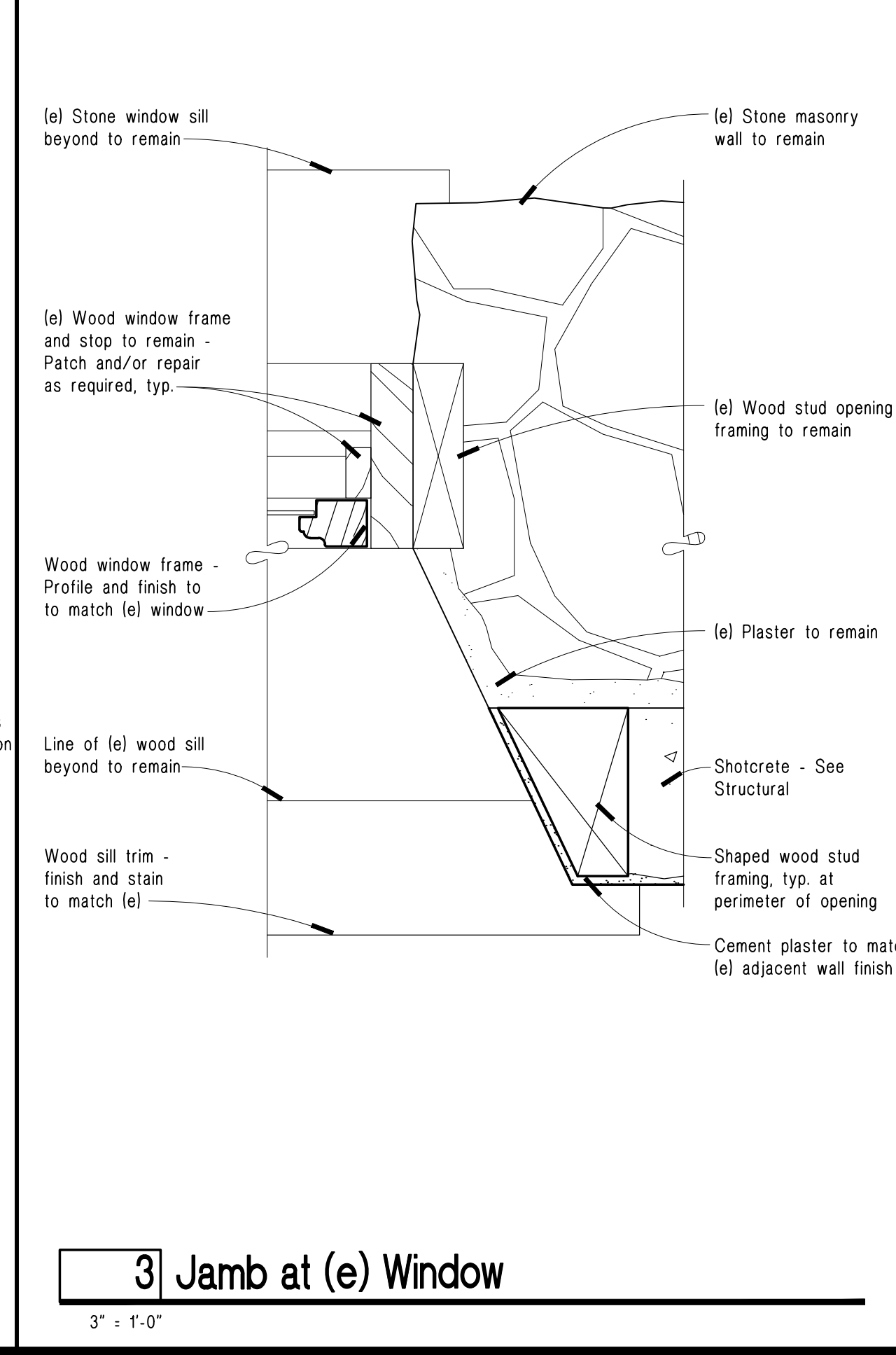
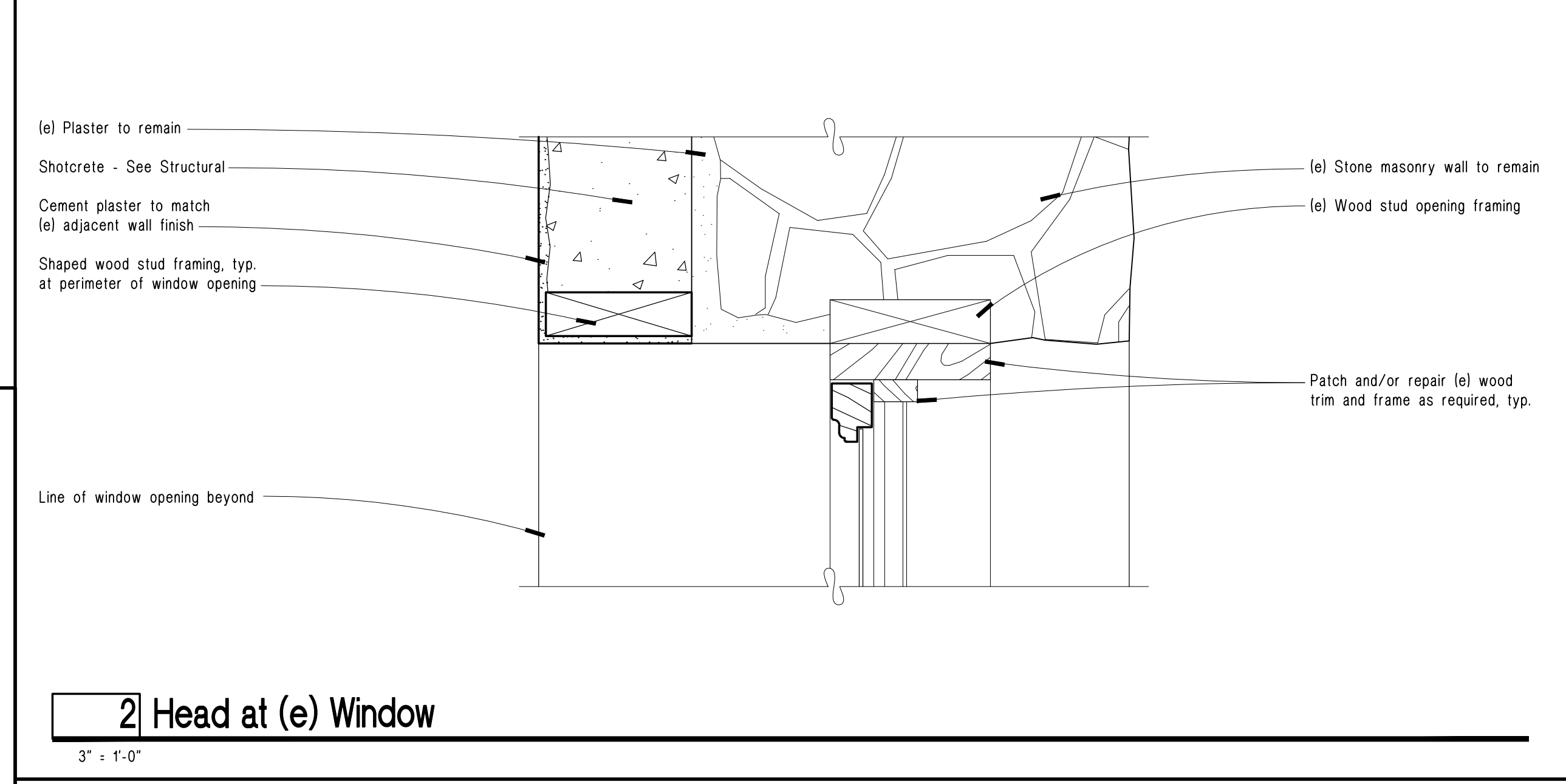
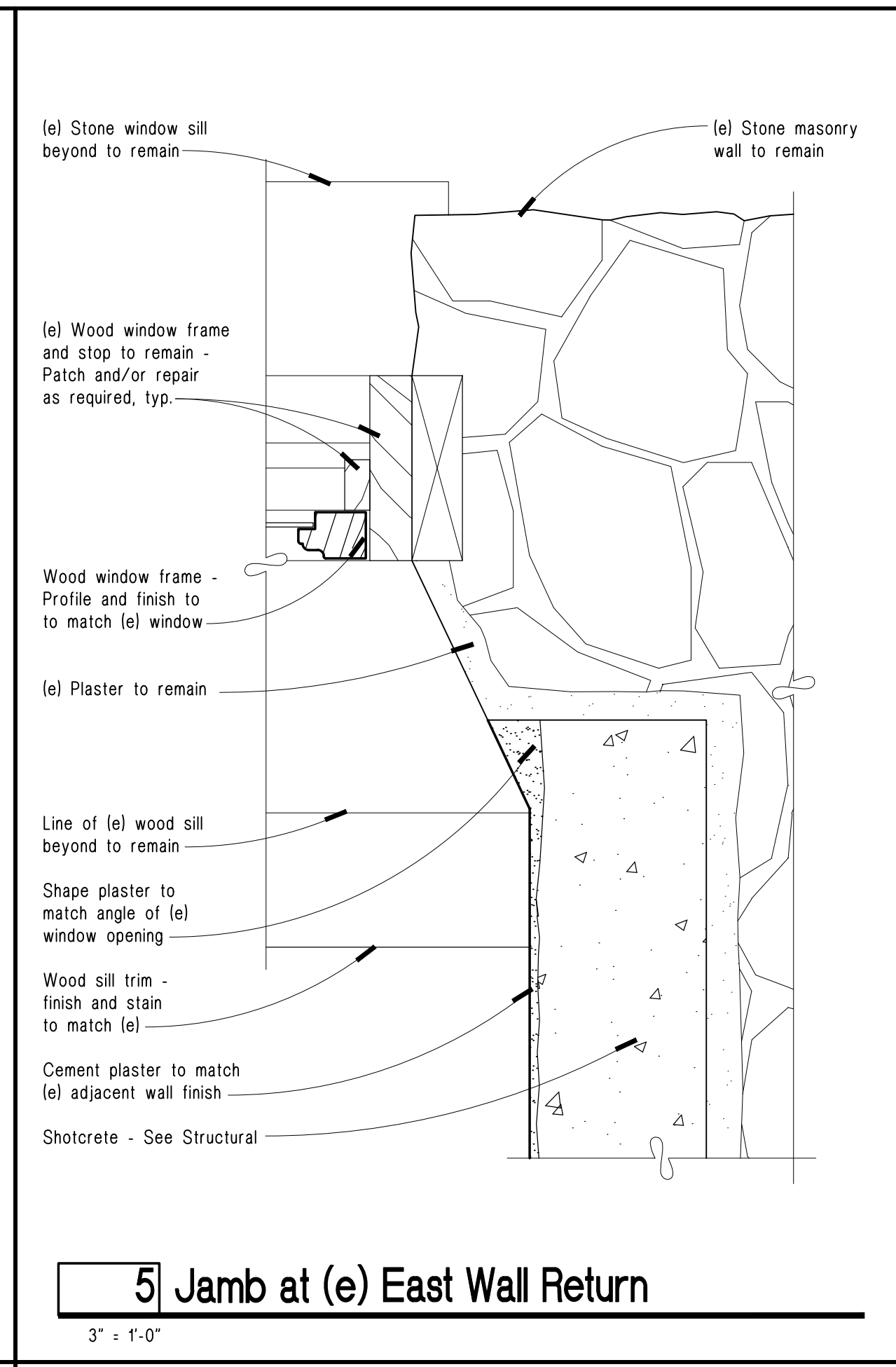
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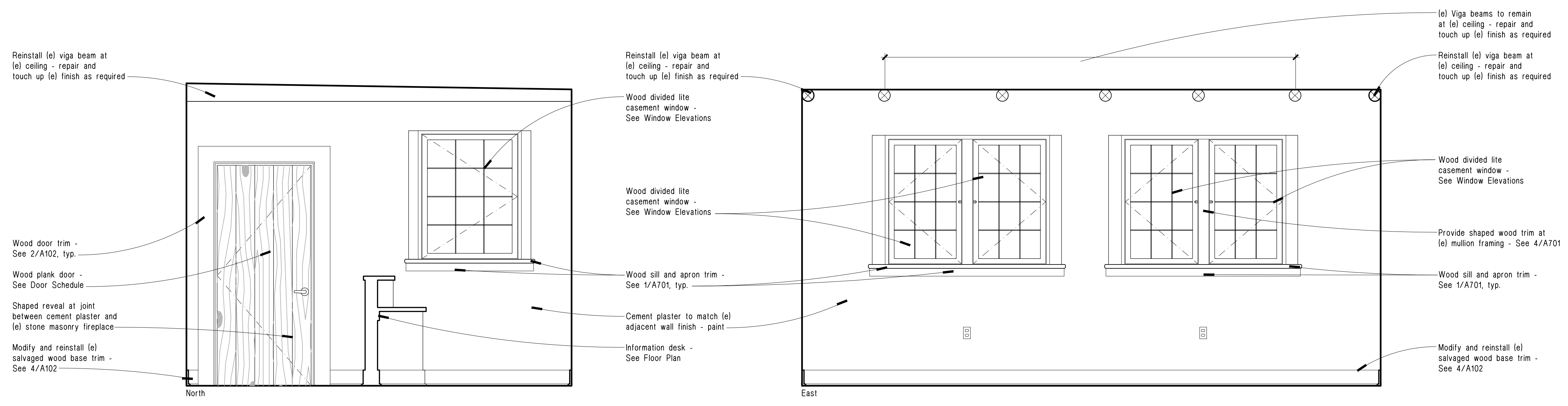
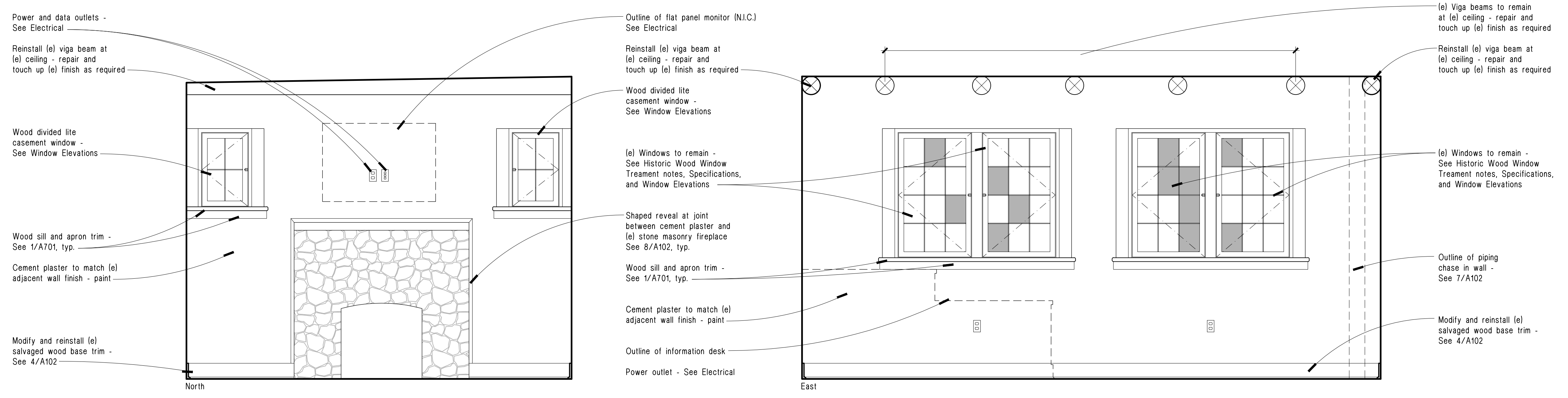
- All doors and windows shall be field verified for size and type.

Exterior Wood Window Rehabilitation Notes

All exterior wood windows shall be repaired as indicated in the procedures specified in Specification Section 080152 Historic Treatment of Wood Windows and the U.S. Department of the Interior Preservation Brief 9 "The Repair of Historic Wooden Windows."

- Inspect windows to determine if the paint has been removed thoroughly. All Paint shall be considered lead containing and be removed by and with the proper lead paint abatement procedures as specified by the Nevada State Public Works Division.
- Remove operable windows from the frame and retain hardware for reinstallation.
- Install weatherproofing and reinstall windows with original hardware where possible.
- Seal windows shut with joint sealant on the interior and exterior of the window.
- Repaint and repair putty where existing putty is loose or does not provide an air and water tight seal. Replace glazing lights where indicated on Building Elevations.
- Paint window with to match original color as specified in Section 09113 Exterior Painting.





1 Interior Elevations

1/2" = 1'-0"

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Interior Elevations

August 19, 2016
 H+K Project No.: 1604B

A801



A B B R E V I A T I O N S

AB	ANCHOR BOLT	DS	DEFORMED SHANK	HORIZ(H)	HORIZONTAL	PL	PLATE
L	ANGLE	DIA OR Ø	DIAMETER	HSB	HIGH STRENGTH BOLT	PLBG	PLUMBING
ARCH	ARCHITECT(URAL)	EXIST(E)	EXISTING	INT	INTERIOR	PLYWD	PLYWOOD
BM	BEAM	EF	EACH FACE	JT	JOINT	PSL	PARALLAM®
BRG	BEARING	ELEC	ELECTRICAL	LLH	LONG LEG HORIZONTAL	PT	PRESSURE TREATED
BTFW	BETWEEN	EL	ELEVATION (DATUM)	LLV	LONG LEG VERTICAL	REINF	REINFORCEMENT
BEV	BEVELED	ELEV	ELEVATOR	LVL	LVL	REQD	REQUIRED
BLK(G)	BLOCK(ING)	EN	EDGE NAILING	MAX	MAXIMUM	R.O.	ROUGH OPENING
BS	BOTH SIDES	ES	EACH SIDE	MB	MACHINE BOLTS	SIM	SIMILAR
BOT	BOTTOM	EA	EACH	MIN	MINIMUM	STD	STANDARD
BLDG	BUILDING	EW	EACH WAY	MAS	MASONRY	STIFF	STIFFENER
CB	CARRIAGE BOLT(S)	EXT	EXTERIOR	MFR	MANUFACTURER	STL	STEEL
CTR	CENTER	FIN	FINISH	MO	MASONRY OPENING	T&B	TOP & BOTTOM
CL	CENTER LINE	FLR	FLOOR	MECH	MECHANICAL	T.O.	TOP OF
CJ	CONSTRUCTION JOINT	FND	FOUNDATION	NS	NEAR SIDE	T.O.P.	TOP OF PLYWOOD
CONJ	CONTROL JOINT	FOS	FACE OF STUD(S)	NSA	NELSON STUD® ANCHOR	T.O.S.	TOP OF STEEL
CMU	CONCRETE MASONRY UNIT	FS	FAR SIDE	(N)	NEW	TPP	TYPICAL
CTSK	COUNTERSINK	FTG	FOOTING	NTS	NOT TO SCALE	V.I.F.	VERIFY IN FIELD
CLR	CLEAR	GALV	GALVANIZED	OC	ON CENTER	VERT(V)	VERTICAL
CONT	CONTINUOUS	GLB	GLUED LAMINATED BEAM	OH	OPPOSITE HAND	UNO	UNLESS NOTED OTHERWISE
COL	COLUMN	HDR	HEADER	OPNG	OPENING	WFO	WELDED WIRE FABRIC
CONC	CONCRETE			OSB	ORIENTED STRAND BOARD	w/	WITH
CONN	CONNECTION						

B A S I S O F D E S I G N

CODE REFERENCE: 2012 INTERNATIONAL BUILDING CODE AND
2012 INTERNATIONAL EXISTING BUILDING CODE
RISK CATEGORY: II

LIVE LOADS		SOILS	
Floor	100 psf	Maximum Allowable Soil Bearing	1000 PSF (Assumed)
Roof	20 psf	Frost Depth	24"
SNOW LOADS		SEISMIC LOADS	
Ground Snow Load, Pg	30 psf	Site Class	D
Ce	1.00	Ie	1.00
Ct	1.10	Ss	2.267
Is	1.00	S1	0.779
Roof Snow Load, Pf	23 psf	Sds	1.512
		Sd1	0.779
WIND LOADS		Seismic Design Category	D
Basic Wind Speed	Vult = 130 mph	Analysis Procedure Used	2012 IEBC Appendix Chapter A1
Exposure	C	Basic Seismic Force Resisting System(s)	Special Reinforced Concrete Shear Walls (R=5.0)
Enclosure Classification	Enclosed	Reduced IBC Seismic Base Shear 0.75V = 0.75SdsW/(R)	V = 0.23 W

P R O J E C T T I T L E

STRUCTURAL DRAWINGS FOR **Stewart Indian School Welcome Center**

State of Nevada Indian Commission
5366 Snyder Avenue, Building 2
Carson City, NV 89701

THE FOLLOWING NOTES SHALL APPLY TO ALL SHEETS:

- IT SHALL BE THE CONTRACTOR'S DIRECT RESPONSIBILITY TO COMPLY WITH GENERAL NOTES AND WITH SECTIONS AND DETAILS AS OUTLINED IN THESE CONTRACT DOCUMENTS.
- DO NOT SCALE DRAWINGS. DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SCALE ACCURATELY. ANY DIMENSIONAL OMISSIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.

I N D E X T O D R A W I N G S

S001	STRUCTURAL COVER SHEET/GENERAL NOTES
S002	GENERAL NOTES (CONTINUED)
S101	TYPICAL DETAILS
S102	TYPICAL DETAILS
S201	FOUNDATION/FLOOR PLAN, CEILING FRAMING PLAN & ROOF FRAMING PLAN
S301	BUILDING SECTIONS & WALL ELEVATIONS
S401	SECTIONS & DETAILS
S402	SECTIONS & DETAILS

G E N E R A L N O T E S

I. GENERAL

- THE FOLLOWING GENERAL NOTES APPLY TO ALL STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE.
- ALL PHASES OF WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2012 INTERNATIONAL BUILDING CODE AND THE LATEST EDITION OF ASTM OR OTHER INDUSTRY STANDARDS REFERENCED.
- THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PREPARING AND FOLLOWING A WRITTEN SAFETY PROGRAM FOR THE CONSTRUCTION PROJECT, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, AND ALL RETAINING WALLS. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS AND RETAIN HIS OWN ENGINEER WHERE REQUIRED.
- IN THE EVENT THAT CERTAIN FEATURES OF CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR AND SHALL BE REVIEWED BY THE ARCHITECT.
- IN THE EVENT THAT CERTAIN EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT FROM THOSE SHOWN ON THE PLANS AND DETAILS, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED SO THAT THE PROPER REVISIONS CAN BE MADE IF NECESSARY.
- NO CHANGES OR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS WILL BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.
- WHERE SHOP DRAWINGS ARE REQUIRED, THEY SHALL BE COMPLETE AND COORDINATED BY THE CONTRACTOR. REPRODUCTIONS OF CONTRACT DRAWINGS WILL NOT BE ACCEPTABLE.

II. FOUNDATIONS

- FOUNDATION DESIGN ASSUMES THE PRESENCE OF ADEQUATE NATIVE SOILS. THE CONTRACTOR SHALL VERIFY THAT EXISTING SOILS ARE SUITABLE FOR THE PROPOSED IMPROVEMENTS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DEFICIENCIES OR DISCREPANCIES ARE NOTED SO THAT APPROPRIATE MEASURES CAN BE TAKEN.
- STRIP SITE AS REQUIRED FOR IMPROVEMENTS. CLEAR ALL EXISTING STRUCTURES, DEBRIS, PAVING AND ORGANICS. THE CONTRACTOR SHALL TAKE CARE TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION AND AVOID OR RE-LOCATE UTILITIES AS REQUIRED.
- EXCAVATE AS NECESSARY TO PROPERLY CONSTRUCT IMPROVEMENTS.
- SCARIFY, MOISTURE CONDITION, AND RE-COMPACT FOOTING SUB-GRADES TO 95% RELATIVE COMPACTION. PLACE FILL AND BACKFILL IN UNIFORM HORIZONTAL LIFTS OF 6" COMPACTED THICKNESS, MOISTURE CONDITION AND COMPACT TO 95% RELATIVE COMPACTION BELOW IMPROVEMENTS AND TO 90% RELATIVE COMPACTION OUTSIDE OF IMPROVEMENTS.
- FOOTINGS SHALL BEAR NOT LESS THAN 24" BELOW FINISHED GRADE.
- FOOTINGS MAY BE POURED IN NEAT EXCAVATION WHERE POSSIBLE, PROVIDED AN EXTRA 1" WIDTH OF FOOTING IS PROVIDED ON EACH SIDE AND WRITTEN APPROVAL IS GIVEN BY THE ARCHITECT.
- ALL FOOTING EXCAVATIONS SHALL BE HAND CLEANED PRIOR TO PLACING CONCRETE.
- CONCRETE SLABS, STEPS AND FLATWORK SHALL BE PLACED OVER 6" COMPACT, TYPE II AGGREGATE BASE. COMPACT AGGREGATE BASE TO 95% RELATIVE COMPACTION.
- TRENCHING AND BACKFILL FOR UTILITIES SHALL COMPLY WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND WITH ALL BEST INDUSTRY PRACTICES.
- THE CONTRACTOR SHALL VERIFY THAT EXISTING SOILS ARE PROPER TO SUPPORT THE ASSUMED BEARING PRESSURES PRIOR TO POURING CONCRETE.

III. CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ACI MANUAL OF CONCRETE PRACTICE.
- CONCRETE AT FOUNDATIONS OR WALLS IN CONTACT WITH SOILS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.50, AND SHALL HAVE AN ENTRAPPED AIR CONTENT OF 1% TO 3%.
- CONCRETE AT INTERIOR SLABS ON GRADE OR WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.45, SHALL HAVE AN ENTRAPPED AIR CONTENT OF 5% TO 7%, AND SHALL CONTAIN 1.5 LB/CY OF FIBERMESH STEALTH POLYPROPYLENE FIBERS OR APPROVED EQUAL.
- EXTERIOR CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.45, SHALL HAVE AN ENTRAPPED AIR CONTENT OF 5% TO 7%, AND SHALL CONTAIN 1.5 LB/CY OF FIBERMESH STEALTH POLYPROPYLENE FIBERS OR APPROVED EQUAL.
- ALL CONCRETE MIXES SHALL UTILIZE TYPE II LOW ALKALI CEMENT CONFORMING TO ASTM C150. HARDROCK AGGREGATE SHALL CONFORM TO ASTM C33. LIGHT WEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. COURSE AGGREGATE GRADATION SHALL MEET THE REQUIREMENTS OF SIZE NO. 67 UNLESS NOTED OTHERWISE.
- CONCRETE SLUMP SHALL NOT EXCEED 3" WHEN TESTED IN ACCORDANCE WITH ASTM C143 FOR FOOTINGS, SLABS, BEAMS AND GIRDERS OR 4" FOR CAST-IN-PLACE WALLS AND COLUMNS. SLUMP INDICATED IS WITH WATER ONLY. ADDITIONAL SLUMP IS ACCEPTABLE IF ADDED BY MEANS OF APPROVED ADDITIVES THAT DO NOT INCREASE SHRINKAGE OR ADVERSELY AFFECT THE CONCRETE.
- NON-SHRINK GROUT OR DRY PACK SHALL BE A PREMIXED, NONMETALLIC FORMULA WITH A MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS AND HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET (ASTM C1090), THREE-DAY COMPRESSIVE STRENGTH OF AT LEAST 5000 PSI AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES. PROVIDE MASTER BUILDERS "CONSTRUCTION GROUT", OR AN APPROVED EQUAL.
- REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. ALL REINFORCING TO BE WELDED OR FIELD BENT SHALL CONFORM TO ASTM A706. SUPPORTS AND ACCESSORIES SHALL BE FURNISHED AS SHOWN OR REQUIRED. CHAIRS PLACED AGAINST EXPOSED SURFACES SHALL BE GALVANIZED OR PROVIDED WITH PLASTIC FEET.
- WELDED WIRE FABRIC (WWF) WITH PLAIN REINFORCING WIRE SHALL CONFORM TO ASTM A185. STRUCTURAL WELDED WIRE REINFORCING (SWWR) WITH DEFORMED REINFORCING WIRE SHALL CONFORM TO ASTM A497. WWF AND SWWR SHALL HAVE WIRE SIZES AND SPACINGS AS INDICATED ON PLANS AND DETAILS. LAP SHEETS IN ACCORDANCE WITH ACI AND CRSI RECOMMENDATIONS.
- MINIMUM COVERAGE FOR REINFORCING SHALL BE THE CLEAR DISTANCE TO THE FACE OF BARS AS FOLLOWS: 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH; 2" FOR #6 AND LARGER BARS FROM FORMED SURFACES EXPOSED TO EARTH OR WEATHER (1 1/2" FOR #5 AND SMALLER).
- ALL REINFORCING STEEL, INCLUDING MESH AT SLABS, SHALL BE ACCURATELY POSITIONED AND SECURED IN PLACE WITH CHAIRS, TIES, BOLSTERS OR DOBBS PRIOR TO PLACEMENT OF CONCRETE AS RECOMMENDED IN THE CRSI MANUAL OF STANDARD PRACTICE.

- SPICES IN REINFORCEMENT SHALL NOT BE MADE AT OR NEAR POINTS OF MAXIMUM STRESS. SPICES SHALL BE LAPPED NOT LESS THAN 48 DIAMETERS, IN NO CASE SHALL A SPICE BE LESS THAN 18".
- CONCRETE FORMWORK SHALL CONFORM TO ACI 347. CLEAN AND ROUGHEN CONSTRUCTION JOINTS AND LIGHTLY MOISTEN FORMS AND SUBGRADE PRIOR TO PLACEMENT OF CONCRETE. INSTALL W.R. MEADOWS, INC.'S SEALIGHT DUOGARD® CHEMICAL RELEASE AGENT OR APPROVED EQUAL PRIOR TO PLACEMENT OF CONCRETE. PLACE CONCRETE USING METHODS WHICH AVOID SEGREGATION. MECHANICALLY VIBRATE ALL CONCRETE, INCLUDING FLOOR SLABS, TO CONSOLIDATE IT IN FORMS.
- FINISH CONCRETE AS FOLLOWS UNLESS NOTED OTHERWISE: INTERIOR FLATWORK SHALL RECEIVE A STEEL TROWELED FINISH. EXTERIOR FLATWORK SHALL RECEIVE A MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC, SACK AND PATCH FORMED CONCRETE EXPOSED TO VIEW FOR A SMOOTH FINISH. PATCH LARGE HOLES OR DEFECTS AT FORMED CONCRETE NOT EXPOSED TO VIEW. FRESHLY PLACED CONCRETE SHALL BE CURED AND PROTECTED FROM THE WEATHER IN ACCORDANCE WITH ACI 305 IN HOT WEATHER AND ACI 306 IN COLD WEATHER.
- CONCRETE EDGES, CORNERS AND INTERSECTIONS SHALL BE TOOLED OR CHAMFERED NO LESS THAN 3/4" WHETHER SHOWN ON THE DRAWINGS OR NOT.
- CONSTRUCTION JOINTS WILL NOT BE PERMITTED, EXCEPT AS SHOWN ON THE DRAWINGS, WITHOUT WRITTEN CONSENT OF THE ARCHITECT.
- SEE ARCHITECTURAL DRAWINGS FOR SPECIAL JOINT LAYOUT AND REQUIREMENTS AT EXPOSED CONCRETE FINISH LOCATIONS. AT SLABS ON GRADE, CONTRACTOR SHALL SUBMIT JOINT LAYOUT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO POURING SLABS.
- CONCRETE MIX DESIGNS IN ACCORDANCE WITH ASTM C94 SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE. SHOP DRAWINGS OF REINFORCING STEEL SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION.
- SHOTCRETE MIX DESIGN, PLACEMENT, FINISHING, AND CURING SHALL BE PERFORMED BY INDIVIDUALS EXPERIENCED AND QUALIFIED FOR THE WORK.
- SURFACES TO RECEIVE SHOTCRETE SHALL BE PREPARED USING HIGH PRESSURE AIR BLASTING TO CLEAN SURFACE.
- SHOTCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.

- SHOTCRETE SHALL BE PLACED BY AN ACI CERTIFIED NOZZLEMAN. A COPY OF THE NOZZLEMAN CERTIFICATION SHALL BE PROVIDED TO THE ARCHITECT PRIOR TO CONSTRUCTION.
- AFTER SHOTCRETE HAS STIFFENED SUFFICIENTLY, TRIM IT TO LINE AND FINISH SMOOTH. AVOID OVER-FINISHING.
- CURE SHOTCRETE WITH CURING AGENT UNTIL FULL DESIGN STRENGTH IS REACHED.

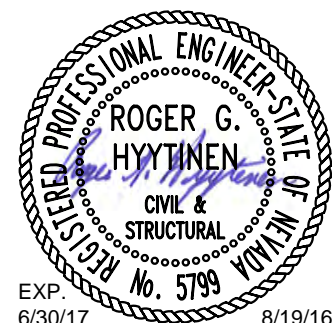
IV. STRUCTURAL STEEL

- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.
- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE. W SHAPES SHALL CONFORM TO ASTM A992. PIPE SHALL CONFORM TO ASTM A53, GRADE B. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B.
- ANCHOR BOLTS (AB) SHALL CONFORM TO ASTM F1554 GRADE 36, UNLESS NOTED OTHERWISE. MACHINE BOLTS (MB) SHALL CONFORM TO ASTM A307. HIGH STRENGTH BOLTS (HSB) SHALL BE ASTM A325 OR A490 AS NOTED AND SHALL CONFORM TO THE REQUIREMENTS OF THE "AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." CONTACT FACES OF STEEL AT CONNECTIONS WHERE HIGH STRENGTH BOLTS ARE USED SHALL NOT BE PAINTED, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS SHALL BE TENSION CONTROL TO ENSURE PROPER INSTALLATION.
- HEADED STUDS SHALL BE NELSON STUD ANCHORS (NSA) BY TRW OR APPROVED EQUAL, AND SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
- ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY'S SPECIFICATIONS FOR THE MATERIAL BEING WELDED. ALL WELDING SHALL BE PERFORMED ONLY BY AWS CERTIFIED WELDERS.
- ALL STRUCTURAL STEEL WORK SHALL BE SHOP PAINTED AND TOUCHED UP IN THE FIELD AFTER ERECTION EXCEPT WHERE STEEL IS TO BE EMBEDDED IN CONCRETE, FIREPROOFED, OR WHERE REQUIRED FOR SPECIAL CONNECTIONS. PROVIDE 3" MINIMUM CONCRETE COVER FOR ALL STEEL EXPOSED TO EARTH.
- SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION.
- AT STEEL MEMBERS ANCHORED TO UNEVEN WALLS, PROVIDE FINGER SHIMS OR WASHERS BEHIND MEMBER AS REQUIRED TO ENSURE SOLID BEARING AGAINST WALL.
- AT CONTRACTOR'S OPTION, WELDS MAY BE EITHER FIELD OR SHOP WELDED AS NEEDED TO FACILITATE ASSEMBLY. FIELD WELDING SHALL NOT BE USED ON STEEL CONNECTED TO WOOD.
- WHERE WELDING OCCURS NEAR WOOD, WOOD SHALL BE PROTECTED TO PREVENT FIRE.
- ALL STEEL MEMBERS AND CONNECTIONS WHICH WILL BE EXPOSED IN THE FINAL BUILDING ARE DESIGNATED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS).
- AESS SHALL BE FABRICATED, HANDLED, ERECTED, AND FINISHED PER THE AESS REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- WELDS AT AESS SHALL BE GROUND SMOOTH TO A THROAT DEPTH NOT LESS THAN SPECIFIED.
- AT CONTRACTOR'S OPTION, AESS MEMBERS MAY BE FINISH PAINTED IN THE SHOP AND TOUCHED UP IN THE FIELD AFTER ERECTION. THIS IS ALLOWED TO FACILITATE PROPER PAINTING OF AESS MEMBERS WHICH WILL BE IN CLOSE PROXIMITY TO OTHER

V. WOOD FRAMING

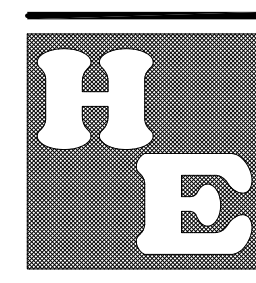
- FRAMING LUMBER USED IN FLEXURE SHALL BE DOUGLAS FIR NO. 2 FOR 2X10 AND SMALLER AND DOUGLAS FIR NO. 1 FOR MEMBERS LARGER THAN 2X10. STRUCTURAL WALL STUDS SHALL BE DOUGLAS FIR NO. 2. WOOD POSTS SHALL BE DOUGLAS FIR NO. 1.
- PLATES, BRIDGING, AND BLOCKING SHALL BE DOUGLAS FIR NO. 2 MINIMUM.
- FRAMING MEMBERS TO BE EXPOSED IN THE FINAL STRUCTURE SHALL BE ROUGH-SAWN.
- PLATES ATTACHED TO CONCRETE OR MASONRY AT GRADE SHALL BE PRESSURE TREATED AND CONNECTORS FOR PRESSURE TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS.
- FRAMING LUMBER MOISTURE CONTENT AT THE TIME OF DELIVERY TO THE JOB SHALL NOT EXCEED 19% BY WEIGHT.
- SHEATHING SHALL BE APA APPROVED PLYWOOD OR OSB OF THE GRADES AND SIZES SHOWN ON THE DRAWINGS. OSB SHALL NOT BE USED IN CONDITIONS WITH EXTERIOR EXPOSURE.
- NAILING SHALL BE IN ACCORDANCE WITH 2012 IBC TABLE 2304.9.1 FASTENING SCHEDULE WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
- BOLTS SHALL CONFORM TO ASTM A307 WITH STANDARD CUT WASHERS WHERE HEAD OR NUT BEARS ON WOOD.
- FRAMING ANCHORS, STRAPS, CONNECTIONS, HANGERS, ETC., SHALL BE SIMPSON STRONG-TIE, SILVER OR EQUAL HAVING ICC APPROVAL. PREDRILL NAIL HOLES AS REQUIRED TO AVOID SPLITTING. ALL HANGERS AND CONNECTIONS SHALL BE NAILED FOR MAXIMUM CAPACITY.
- THE EXISTING STRUCTURE CONTAINS SOME FULL-SAWN FRAMING. WITH PRIOR APPROVAL OF THE ENGINEER, WHERE REQUIRED TO OBTAIN A TIGHT FIT BETWEEN NEW DRESSED LUMBER AND EXISTING FRAMING, PLYWOOD SHIMS MAY BE USED.
- WHERE FRAMING HANGERS SUPPORT EXISTING FULL SAWN OR ROUGH SAWN MEMBERS, ROUGH BEAM SIZE HANGERS SHALL BE USED AS APPROPRIATE.
- HOLES FOR NAILS SHALL BE PRE-DRILLED AS REQUIRED TO AVOID SPLITTING. ALL HOLES FOR SCREWS SHALL BE PRE-DRILLED.

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Consultant



HYTTINEN ENGINEERING LLC
5458 Longley Lane, Suite B
Reno, Nevada 89511
Phone (775) 826-3019
Fax (775) 826-3076

H+K ARCHITECTS

5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262

P 775+332+6640
F 775+332+6642

hkarchitects.com

Stewart Indian School Welcome Center

State of Nevada Indian Commission
5366 Snyder Avenue, Building 2
Carson City, NV 89701

Structural Cover Sheet
General Notes

August 19, 2016
H+K Project No.: 1604B

S001



GENERAL NOTES (CONTINUED)

VI. MANUFACTURED LUMBER PRODUCTS

- A. PARALLEL STRAND LUMBER (PSL) SHALL BE 2.0E PARALLAM BY TRUSJOIST OR APPROVED EQUAL.
- B. LAMINATED VENEER LUMBER (LVL) SHALL BE 1.9E MICROLAM BY TRUSJOIST OR APPROVED EQUAL.
- C. LAMINATED STRAND LUMBER (LSL) SHALL BE 1.6E TIMBERSTRAND BY TRUSJOIST OR APPROVED EQUAL.
- D. FACTORY FABRICATED WOOD CHORD JOISTS WITH PLYWOOD OR ROD WEBS SHALL BE OF THE TYPES AND SIZES INDICATED ON THE DRAWINGS BY TRUSJOIST OR APPROVED EQUAL.
- E. SHOP DRAWINGS OF ALL MANUFACTURED LUMBER PRODUCTS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY FABRICATION.

VII. HOLES IN STRUCTURES

- A. OPENINGS, POCKETS, HOLES, CANS, ETC. SHALL NOT BE PLACED IN ANY SLAB, BEAM, COLUMN, WALL, OR OTHER STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR WRITTEN PERMISSION IS OBTAINED FROM THE ARCHITECT.
- B. DO NOT OVERCUT AT CORNERS WHEN CUTTING A NEW OPENING IN EXISTING CONCRETE OR MASONRY; COREDRILL, CHIP AND GRIND AS REQUIRED AT CORNERS. A LAYOUT OF ALL PROPOSED OPENINGS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO SAWCUTTING.
- C. UTILIZE CURRENT TECHNOLOGY DETECTION EQUIPMENT TO LOCATE OBSTACLES (REBAR, CONDUITS, ETC.) WITHIN CONCRETE (FLOORS, WALLS, ROOFS, ETC.) AT EVERY LOCATION WHERE CONCRETE IS TO BE PENETRATED (DRILLING, SAWING, CORING, ETC.). PROVIDE RESULTS TO THE ARCHITECT AT LEAST 48 HOURS PRIOR TO THE PENETRATION ACTION SO APPROPRIATE DIRECTION MAY BE PROVIDED WHEN OBSTACLES ARE IDENTIFIED. ANY OBSTACLES DAMAGED WITHOUT PRIOR APPROVAL OF THE ARCHITECT SHALL BE REPAIRED IN A MANNER ACCEPTABLE TO THE ARCHITECT AT THE CONTRACTOR'S EXPENSE.

VIII. POST INSTALLED ANCHORS

- A. WHEN DRILLING HOLES IN EXISTING MASONRY WALLS, IMPACT TOOLS SHALL NOT BE USED. ONLY ROTARY TOOLS SHALL BE USED.
- B. EXPANSION ANCHORS SHALL BE SIMPSON "STRONG-BOLT 2" PER ICC-ES ESR-3037 (IN CONCRETE) OR PER IAPMO ES ER-240 (IN MASONRY); HILTI "KWIK BOLT 3" PER ICC-ES ESR-2302 (IN CONCRETE) OR PER ICC-ES ESR-1385 (IN MASONRY); POWERS POWER-STUD+SD2 PER ICC-ES ESR-2502 (IN CONCRETE) OR ICC-ES ESR-2966 (IN MASONRY) OR APPROVED EQUAL. PERIODIC SPECIAL INSPECTION REQUIRED.
- C. EPOXY/ADHESIVE ANCHORS SHALL USE SIMPSON "SET-XP" PER ICC-ES ESR-2508 (IN CONCRETE) OR PER ICC-ES ESR-1772 (IN MASONRY); HILTI "HIT-RE 500-S0" PER ICC-ES ESR-2322 (IN CONCRETE OR HILTI "HIT-HY 150 MAX" PER ICC-ES ESR-1967 (IN MASONRY); POWERS PURE 110+EPOXY PER ICC-ES ESR-3298 (IN CONCRETE) OR APPROVED EQUAL. PERIODIC SPECIAL INSPECTION REQUIRED.
- D. ALL EPOXY ADHESIVE ANCHORS IN EXISTING MASONRY WALL SHALL HAVE SCREEN TUBES. SCREEN TUBES SHALL BE SIMPSON ETS STEEL SCREEN TUBES OR APPROVED EQUAL. WHERE ANCHORS ARE PLACED IN HOLLOW MASONRY, SIMPSON ETS-P PLASTIC SCREEN TUBES OR APPROVED EQUAL SHALL BE USED.
- E. HEAVY DUTY SCREW ANCHORS SHALL BE SIMPSON "TITEN HD" PER ICC-ES ESR-2713 (IN CONCRETE) OR PER ICC-ES ESR-1056 (IN MASONRY); HILTI "KWIK HUS-EZ" PER ICC-ES ESR-3027 (IN CONCRETE) OR PER ICC-ES ESR-3056 (IN MASONRY); POWERS WEDGE BOLT+ PER ICC-ES ESR-2526 (IN CONCRETE) OR ICC-ES ESR-1678 (IN MASONRY) OR APPROVED EQUAL. PERIODIC SPECIAL INSPECTION REQUIRED.
- F. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ALL EVALUATION REPORT AND MANUFACTURER RECOMMENDATIONS AND SPECIAL INSPECTION SHALL BE PROVIDED WHERE REQUIRED.
- G. WHERE POST INSTALLED ANCHORS ARE TO BE USED, IT SHALL BE THE CONTRACTOR'S DIRECT RESPONSIBILITY TO COORDINATE THE LOCATIONS OF REINFORCING STEEL OR OTHER SIMILARLY EMBEDDED ITEMS TO WORK WITH POST INSTALLED ANCHORS AND TO AVOID CONFLICTS WHEN DRILLING HOLES.
- H. INSTALLATION OF ADHESIVE ANCHORS THAT ARE TO BE UNDER SUSTAINED TENSION LOADING IN HORIZONTAL TO VERTICAL OVERHEAD ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH 318-2011 (SECTION D.9.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
- I. PER ACI 318-2011 (SECTION D.2.2), ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.

IX. MASONRY WALL REPAIRS

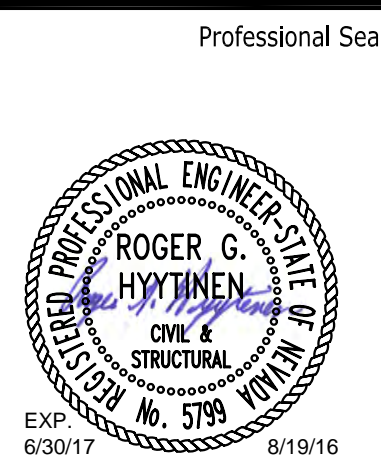
- A. WHERE REPOINTING IS REQUIRED ON THE DRAWINGS, EXISTING MORTAR SHALL BE REMOVED FROM JOINTS TO A DEPTH OF 1" FROM THE SURFACE AND REPLACED WITH NEW MORTAR, U.N.O.
- B. IT IS THE INTENT OF THE DRAWINGS TO REQUIRE REPOINTING WHERE EXISTING MORTAR IS IN POOR CONDITION. IF ADDITIONAL AREAS ARE DISCOVERED WITH POOR MORTAR QUALITY, OR IF AREAS NOTED TO BE REPOINTED ARE DISCOVERED TO CONSIST OF SOUND MORTAR, THE ENGINEER SHALL BE CONTACTED TO PROVIDE FURTHER REVIEW AND DIRECTION.
- C. CARE SHALL BE TAKEN NOT TO DAMAGE THE EXISTING MASONRY DURING MORTAR REMOVAL.
- D. PRIOR TO PLACEMENT OF NEW MORTAR, LOOSE MATERIAL SHALL BE BLOWN OUT OF JOINTS AND CRACKS USING HIGH PRESSURE COMPRESSED AIR.
- E. NEW MORTAR SHALL BE TYPE "S" MORTAR AND SHALL MATCH THE CURRENT COLOR OF THE EXISTING MORTAR.

X. STATEMENT OF SPECIAL INSPECTIONS

- A. SPECIAL INSPECTION AND ASSOCIATED MATERIALS TESTING SHALL BE PERFORMED FOR THE PROCESSES AND MATERIALS REQUIRED FOR CONSTRUCTION. THE TYPE AND FREQUENCY OF SPECIAL INSPECTIONS AND MATERIALS TESTING AS WELL AS THE FREQUENCY AND DISTRIBUTION OF RELATED REPORTS SHALL BE AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND AS REQUIRED BY ALL APPLICABLE CODES.
- B. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ARCHITECT, OWNER AND BUILDING OFFICIAL. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE ARCHITECT, OWNER AND BUILDING OFFICIAL. AT THE CONCLUSION OF WORK, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT TO THE ARCHITECT, OWNER AND BUILDING OFFICIAL INDICATING THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
- C. WHERE REQUIRED BY THE BUILDING OFFICIAL, THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL IN ACCORDANCE WITH 2012 IBC SECTION 1704.4 PRIOR TO COMMENCEMENT OF WORK ON SYSTEMS OR COMPONENTS WHICH REQUIRE SPECIAL INSPECTION.
- D. SPECIAL INSPECTIONS IN ACCORDANCE WITH 2012 IBC CHAPTER 17 SHALL BE REQUIRED FOR THE FOLLOWING STRUCTURAL ITEMS:
 - 1. SPECIAL CASES: POST INSTALLED ANCHORS IN ACCORDANCE WITH EVALUATION REPORTS AND MANUFACTURER RECOMMENDATIONS.
 - 2. STEEL CONSTRUCTION: STRUCTURAL STEEL PER AISC 360 CHAPTER N AND STEEL OTHER THAN STRUCTURAL STEEL PER IBC TABLE 1705.2.2.
 - 3. CONCRETE AND SHOT-CRETE CONSTRUCTION PER IBC TABLE 1705.3. EXCEPTIONS TO THIS SECTION SHALL INCLUDE THE FOLLOWING: FOUNDATIONS (DESIGN BASED ON f_c OF 2500 PSI OR LESS) AND NON-STRUCTURAL SLABS-ON-GRADE.
 - 4. SOILS PER IBC TABLE 1705.6.
- E. THE SPECIAL INSPECTIONS LISTED ABOVE ARE NOT INTENDED TO BE ALL-INCLUSIVE AND ONLY REPRESENT SPECIAL INSPECTIONS FOR THE WORK SHOWN ON STRUCTURAL DRAWINGS. ADDITIONAL SPECIAL INSPECTIONS OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING OR OTHER SYSTEMS MAY BE REQUIRED. REFER TO THE APPROPRIATE DESIGN DISCIPLINES FOR ADDITIONAL INFORMATION.

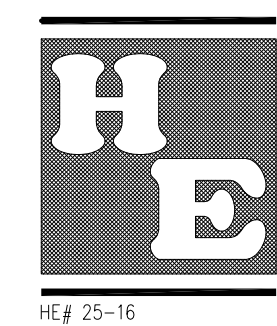
XI. STRUCTURAL OBSERVATION

- A. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH WRITTEN NOTICE 48 HOURS PRIOR TO THE FOLLOWING CONSTRUCTION ACTIVITIES SO THAT, AT THE STRUCTURAL ENGINEER'S DISCRETION, APPROPRIATE STRUCTURAL OBSERVATION MAY BE PERFORMED: SHOTCRETE PLACEMENT, CONCRETE PLACEMENT, STEEL ERECTION, DIAPHRAGM WALLING/WELDING, AND GROUTING OF MASONRY. DEFICIENCIES WILL BE REPORTED IN WRITING TO THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE BUILDING OFFICIAL. AT THE CONCLUSION OF WORK, THE STRUCTURAL ENGINEER WILL REVIEW THE PROJECT FOR GENERAL CONFORMANCE WITH PROJECT REQUIREMENTS. IF, IN THE OPINION OF THE STRUCTURAL ENGINEER, THE PROJECT STILL CONTAINS REPORTED DEFICIENCIES THAT HAVE NOT BEEN RESOLVED BY THE CONTRACTOR, A WRITTEN STATEMENT WILL BE SENT TO THE ARCHITECT INDICATING THAT SITE VISITS HAVE BEEN MADE AND THAT CERTAIN DEFICIENCIES REMAIN UNRESOLVED.



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HYTTINEN ENGINEERING LLC
 5458 Longley Lane, Suite B
 Reno, Nevada 89511
 Phone (775) 826-3019
 Fax (775) 826-3076

Consultant

H+K ARCHITECTS
 5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262
 P 775+332+6640
 F 775+332+6642
 hkarchitects.com

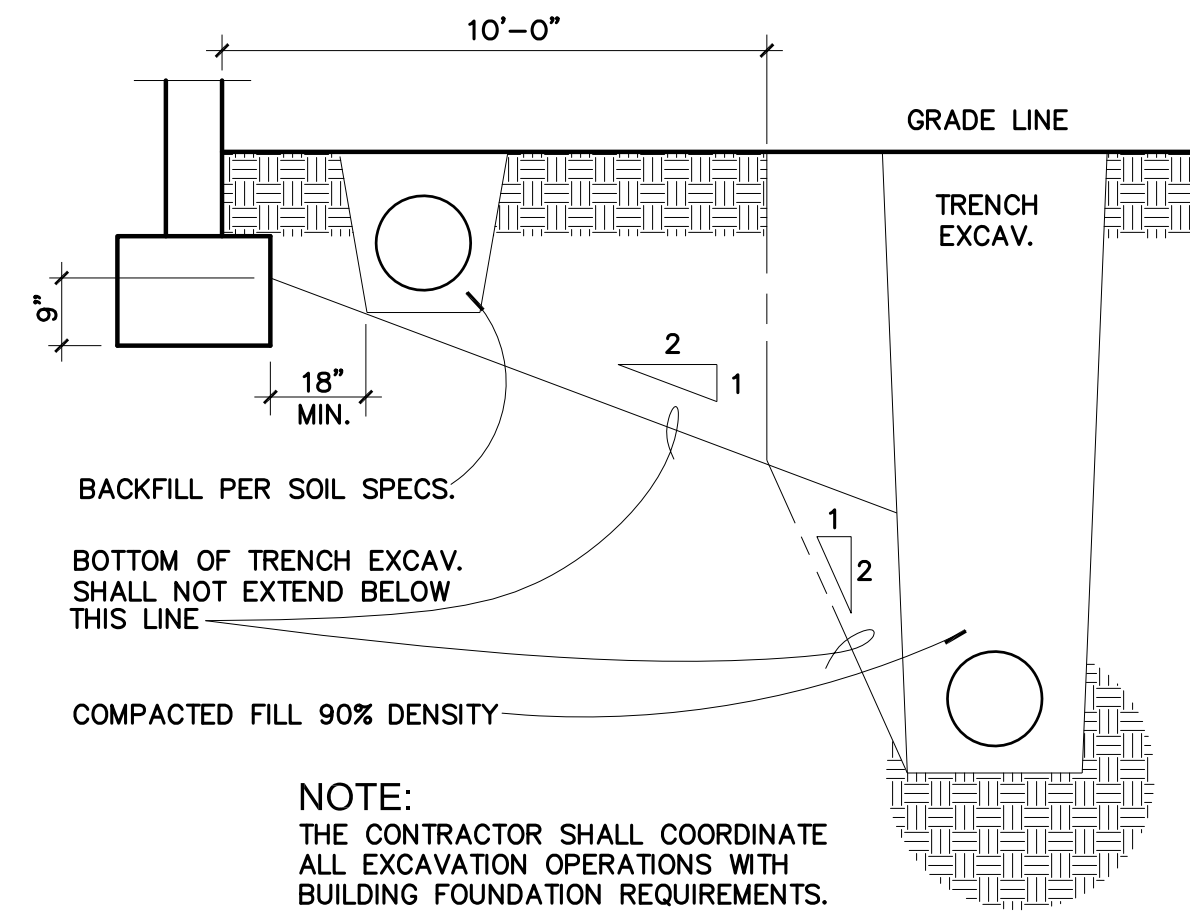
**Stewart Indian School
 Welcome Center**
 State of Nevada Indian Commission
 5366 Snyder Avenue, Building 2
 Carson City, NV 89701

General Notes

August 19, 2016
 H+K Project No.: 1604B

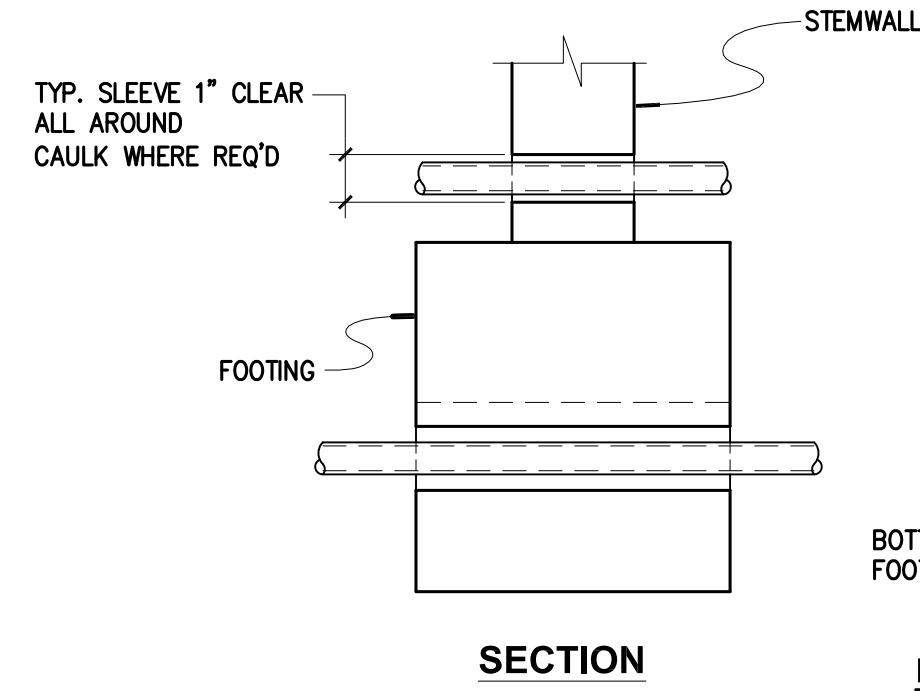
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EXCAVATION PARALLEL TO FOOTING
N.T.S.

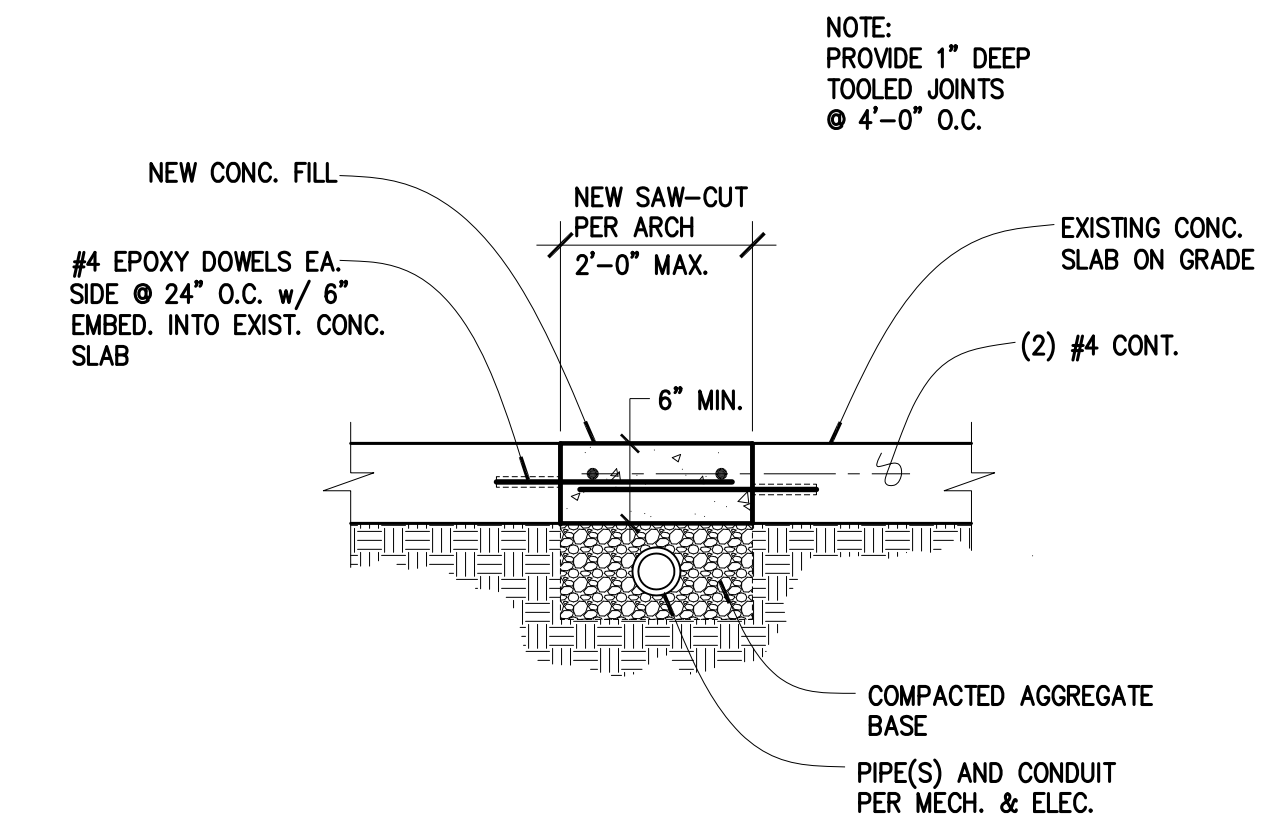
1
S101



TYPICAL PIPE ENTRANCE
N.T.S.

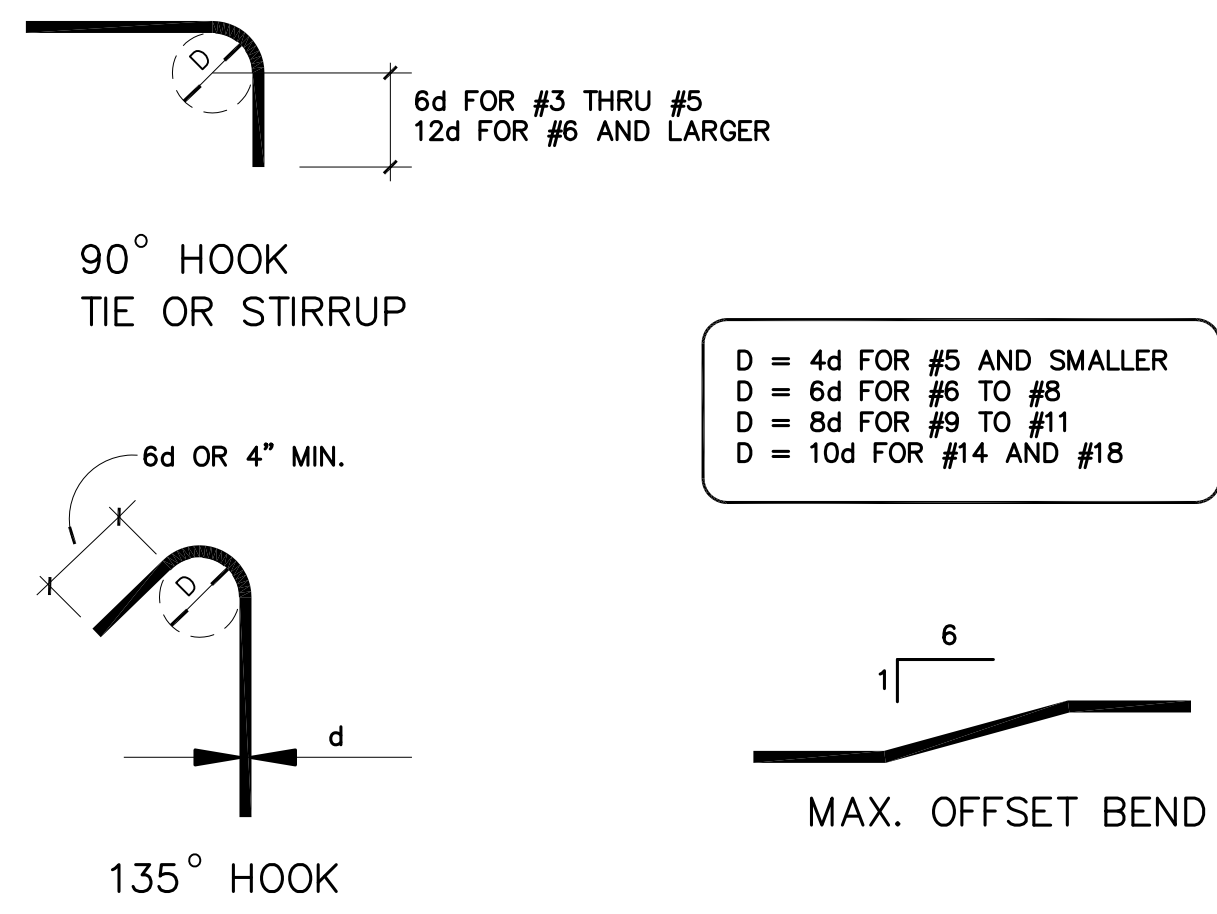
NOTE:
WHEN TOP OF PIPE IS 24" OR MORE
BELOW BOTTOM OF FOOTING,
ENCASEMENT AND ADDITIONAL
REINFORCEMENT ARE NOT REQUIRED.

2
S101



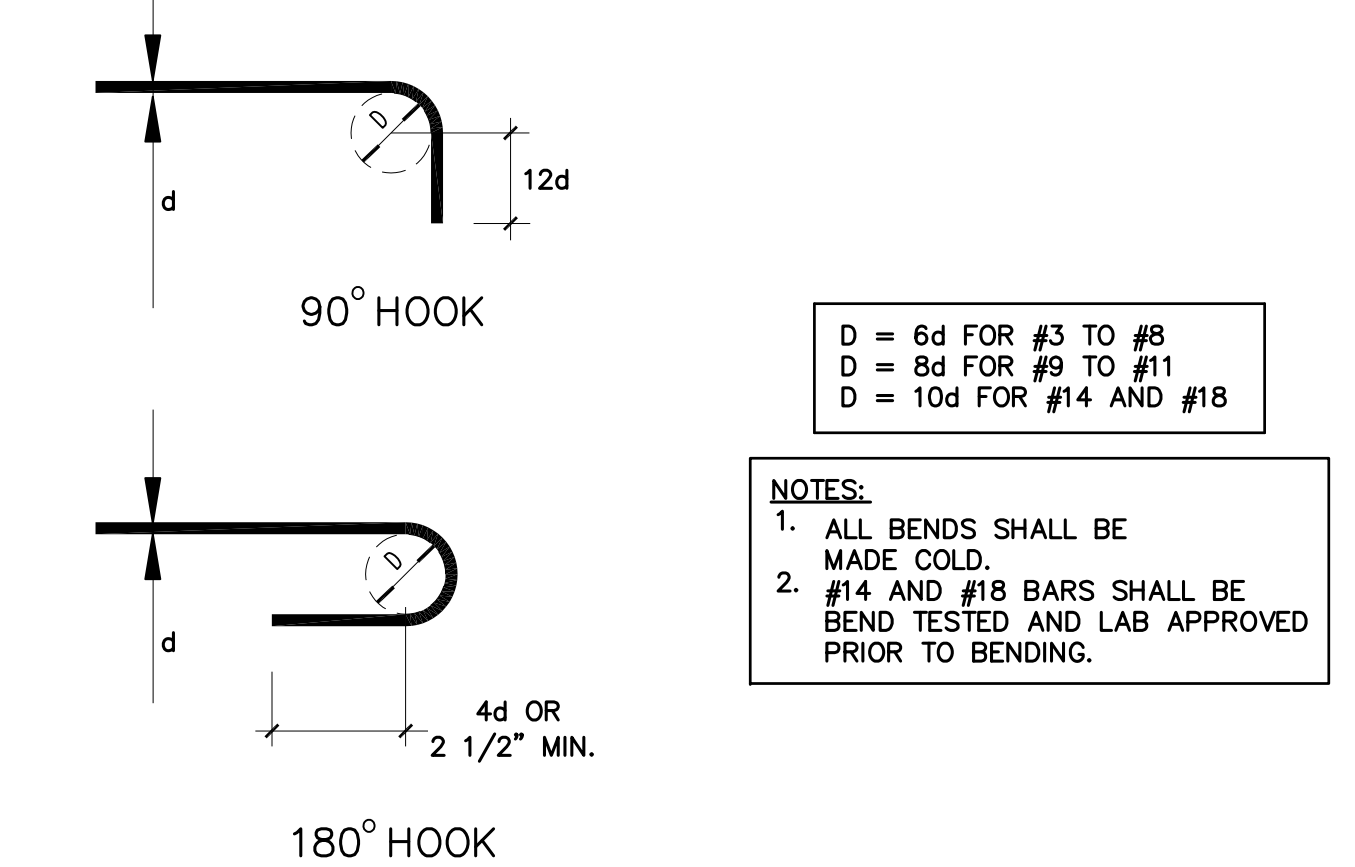
SLAB REPAIR
N.T.S.

3
S101



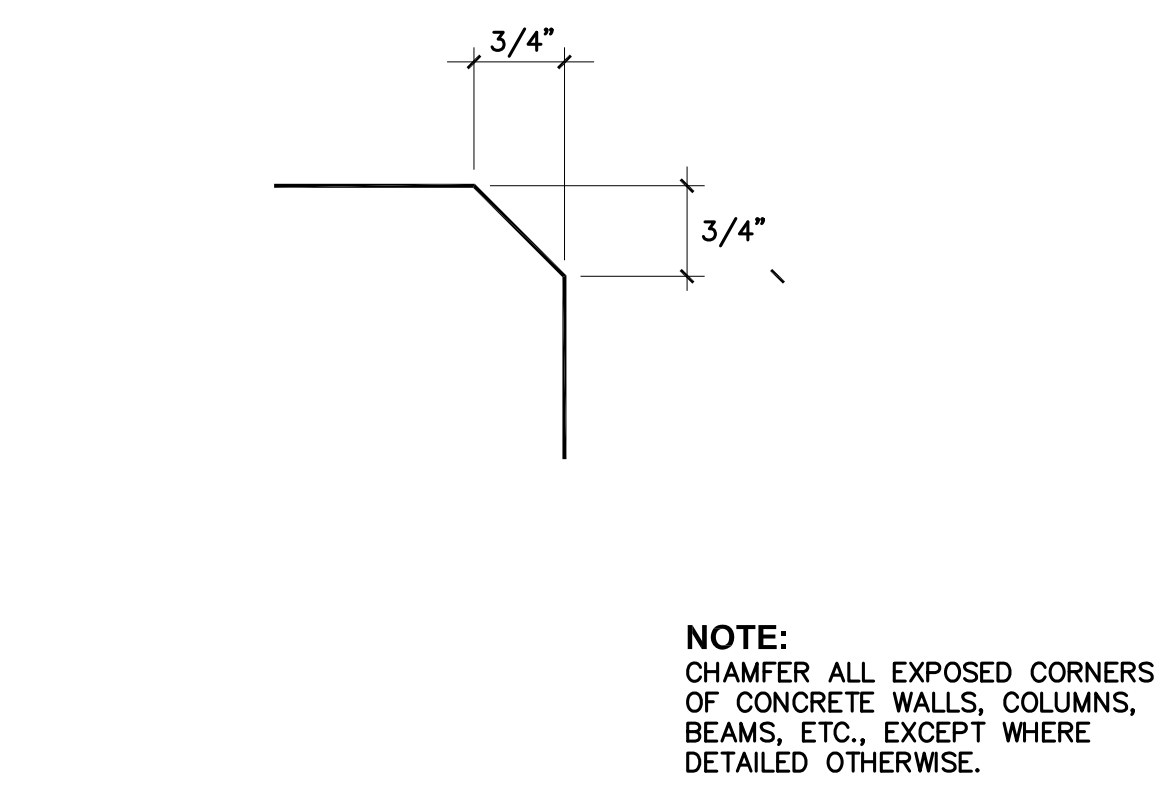
TIE & STIRRUP HOOKS
N.T.S.

4
S101



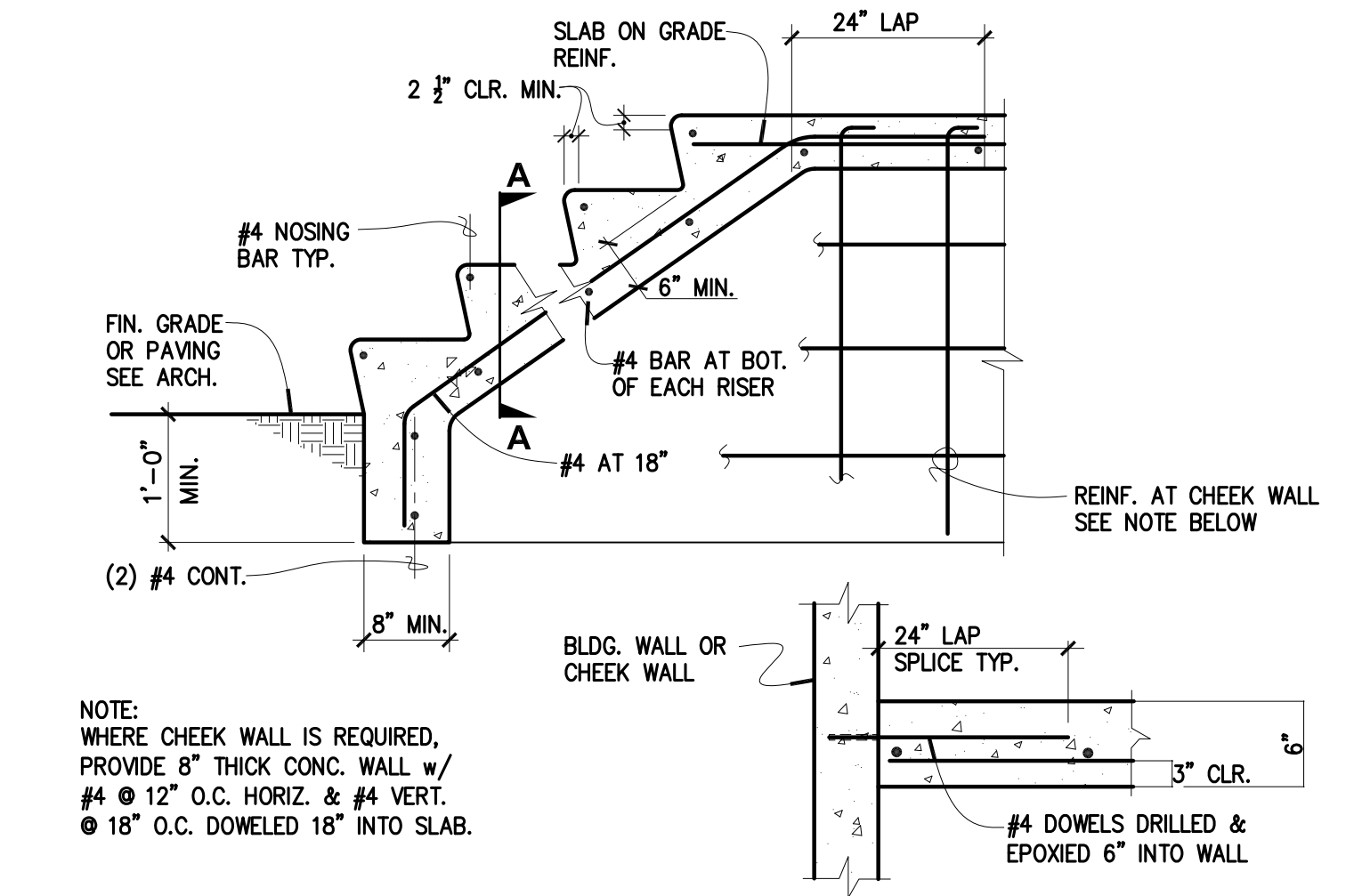
**HOOKS AND BENDS FOR
PRINCIPAL REINFORCEMENT**
N.T.S.

5
S101



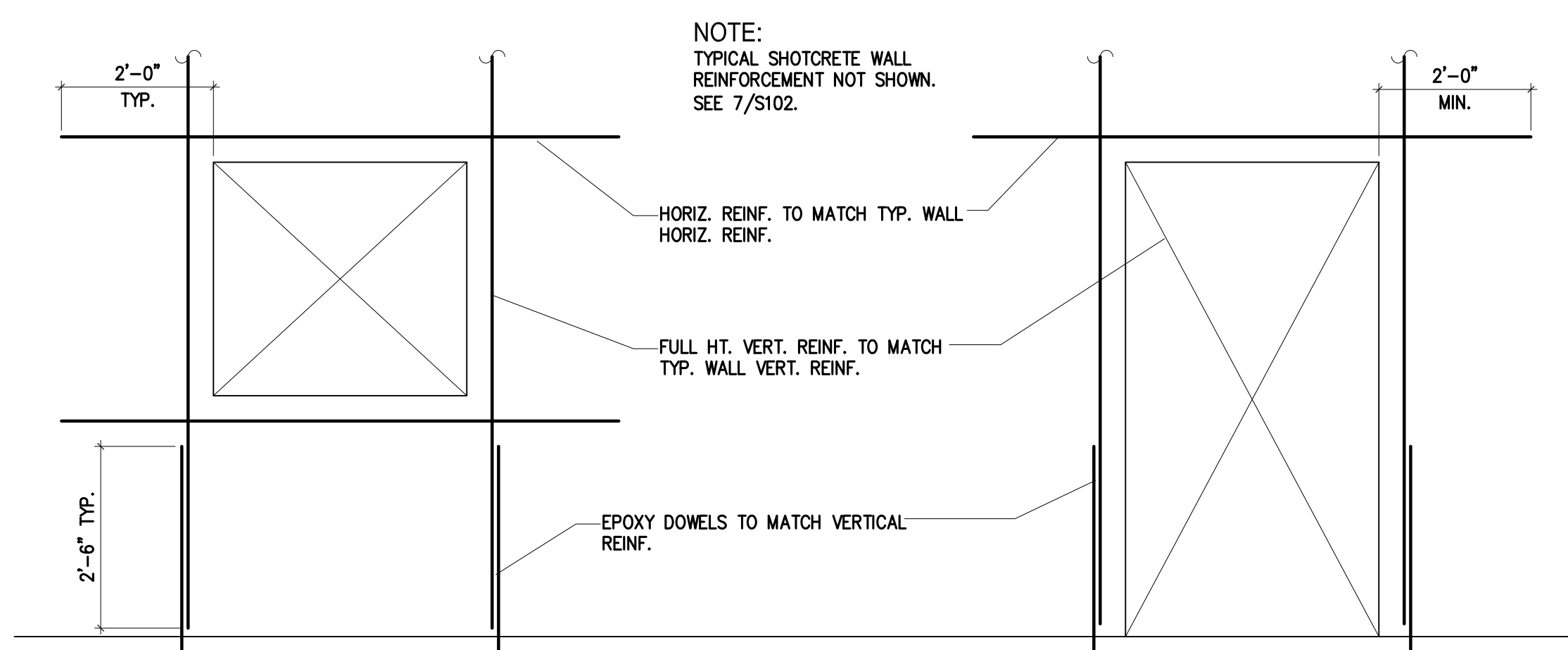
TYPICAL CONCRETE CHAMFER
N.T.S.

6
S101



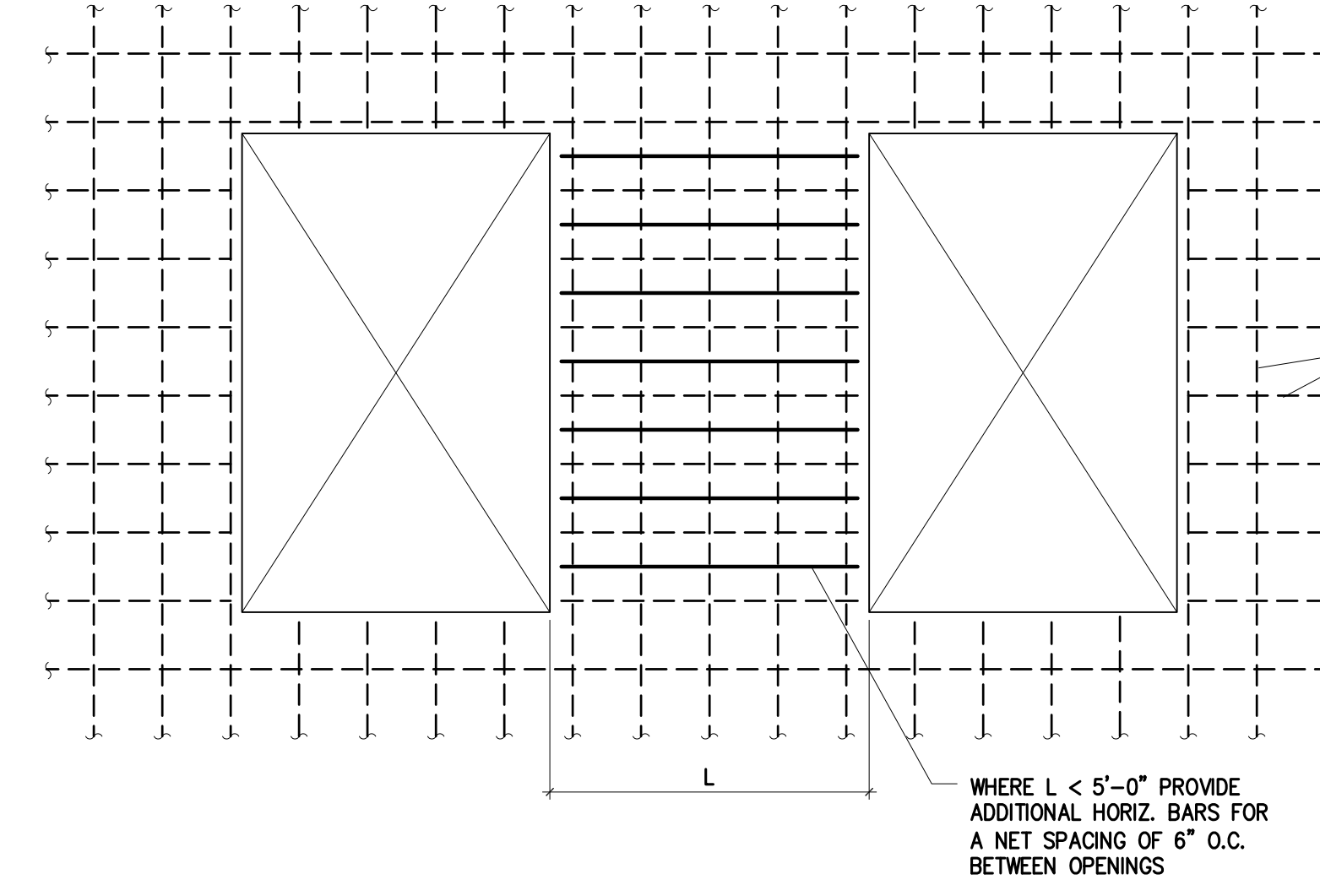
CONCRETE STAIR ON GRADE
NO SCALE

7
S101



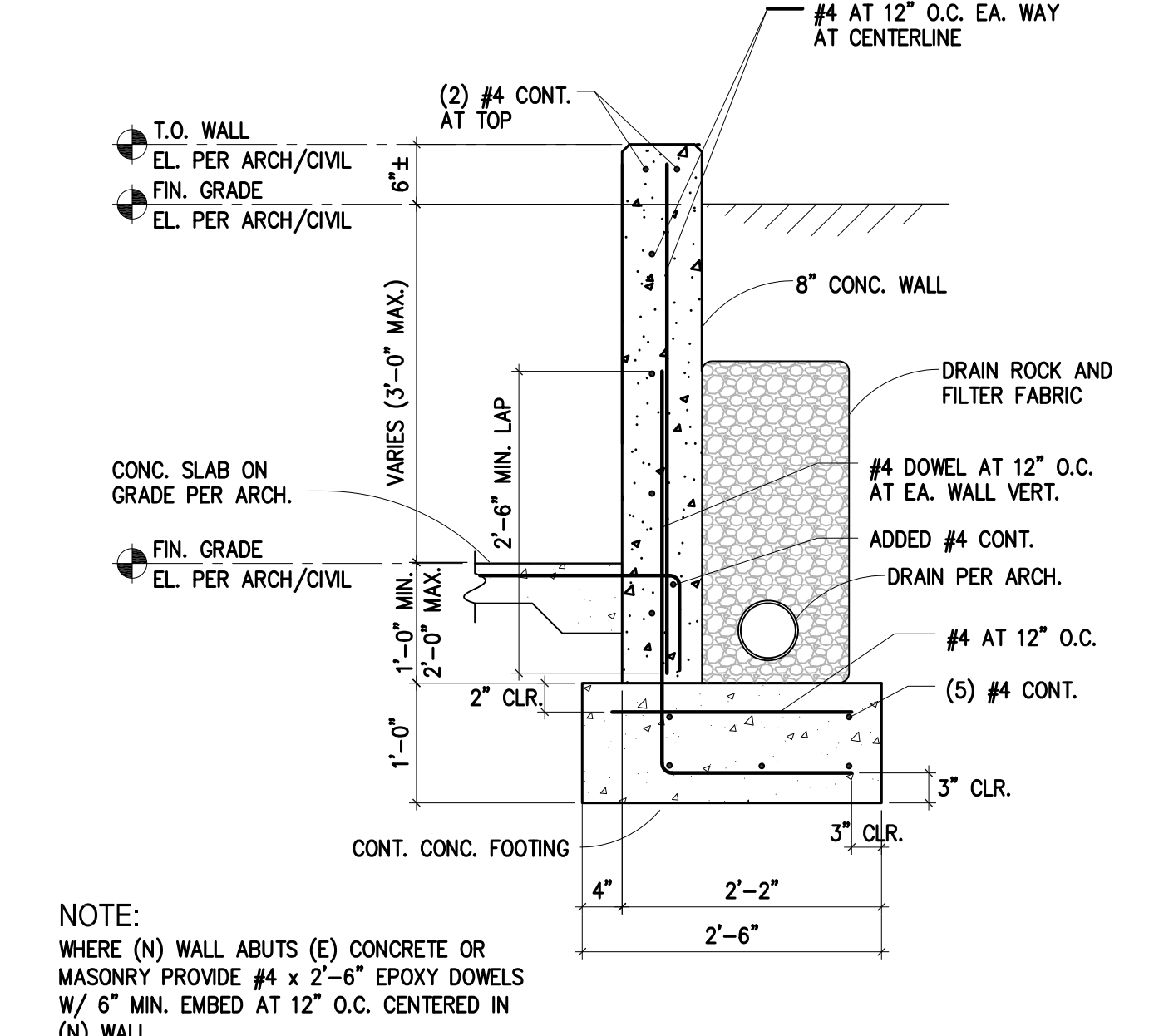
TYPICAL SHOTCRETE REINF. AROUND OPENINGS
NO SCALE

8
S101



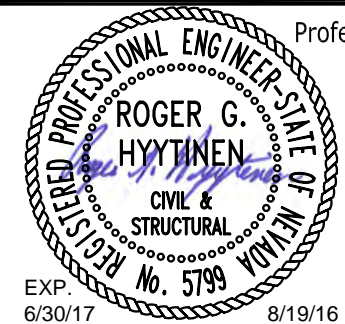
TYP. SHOTCRETE REINF. BETWEEN OPENINGS
N.T.S.

9
S101

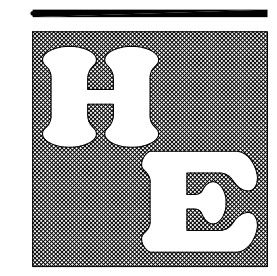


RAMP RETAINING WALL
N.T.S.

10
S101



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HYTTINEN ENGINEERING LLC
5458 Longley Lane, Suite B
Reno, Nevada 89511
Phone (775) 826-3019
Fax (775) 826-3076

H+K ARCHITECTS
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262
P 775+332+6640
F 775+332+6642
hkarchitects.com

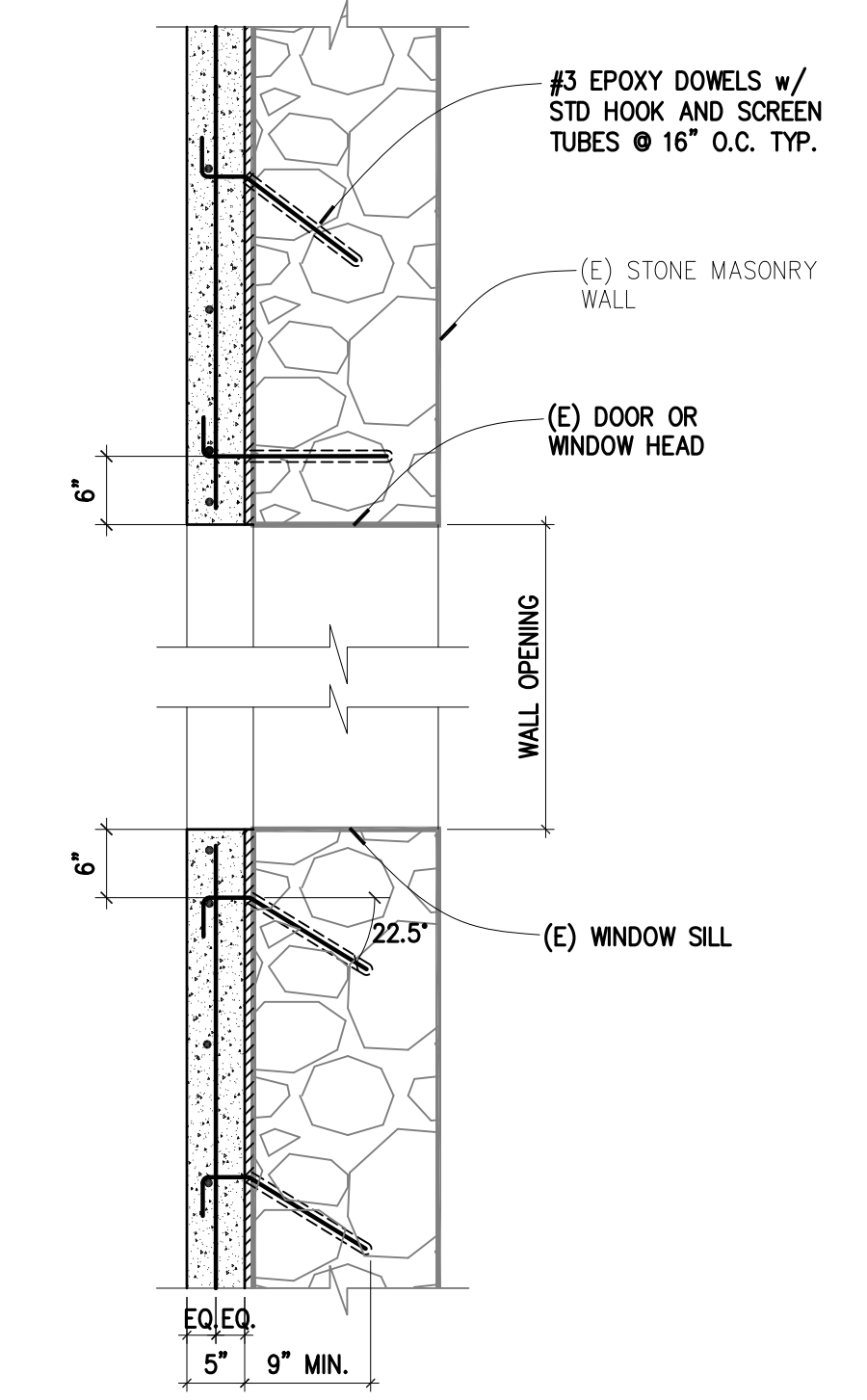
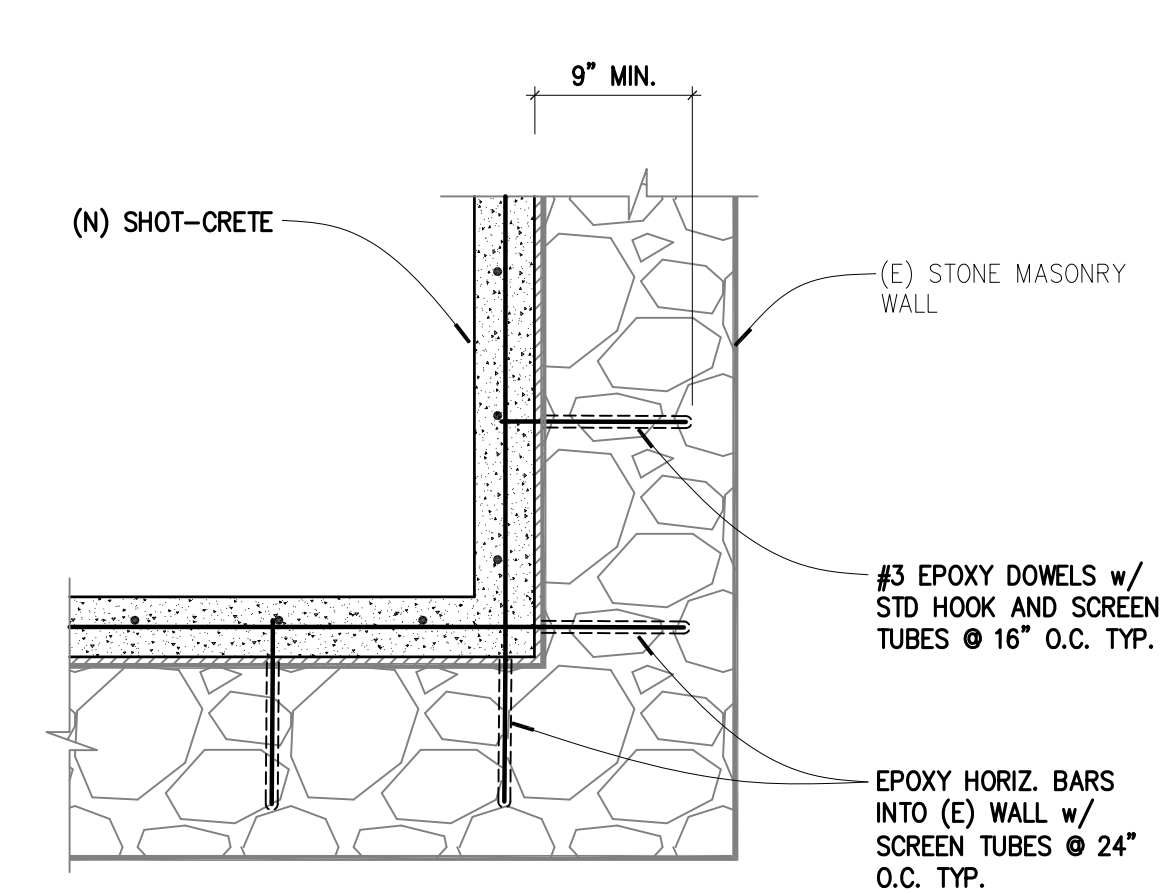
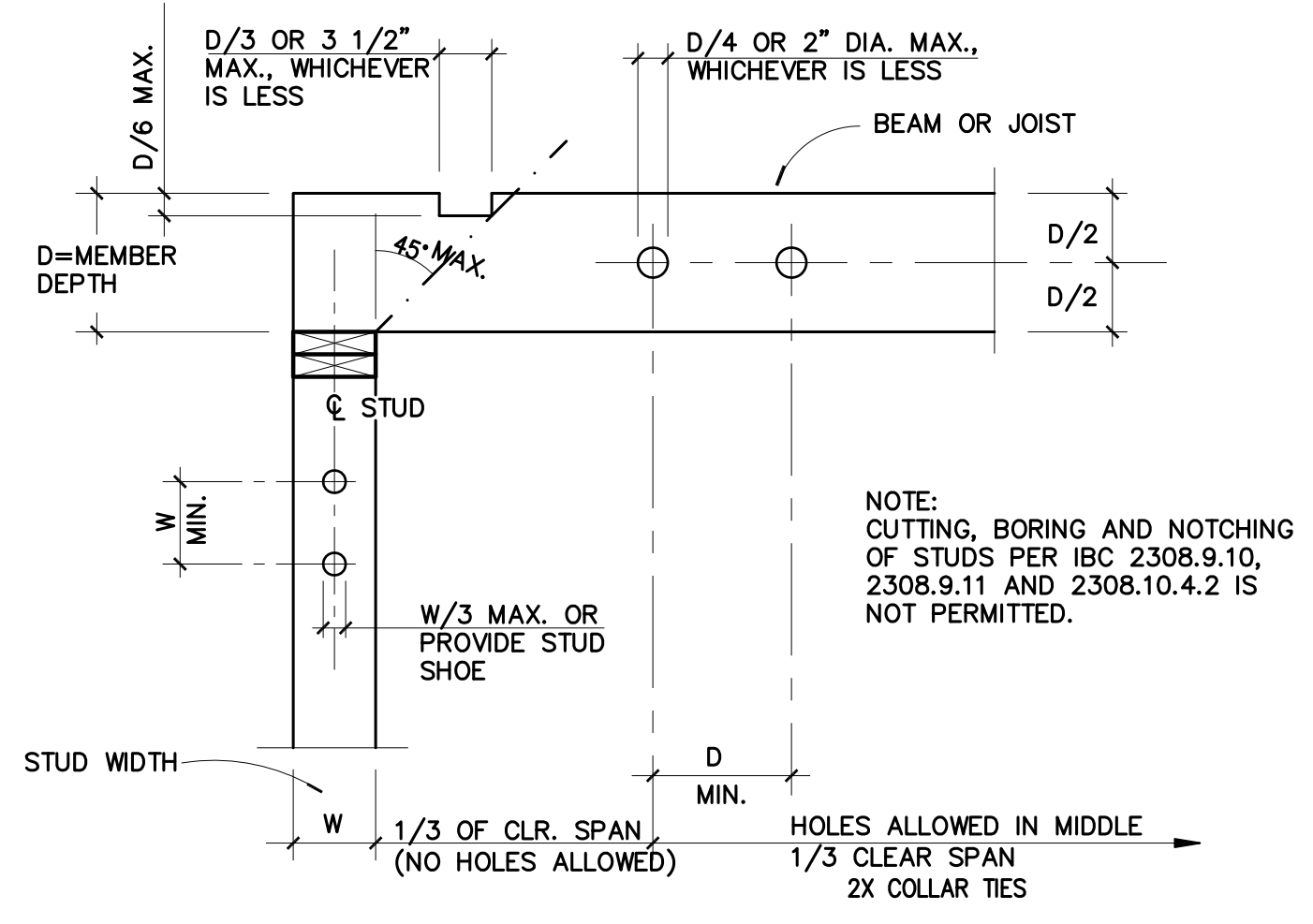
**Stewart Indian School
Welcome Center**
State of Nevada Indian Commission
5366 Snyder Avenue, Building 2
Carson City, NV 89701

Typical Details
August 19, 2016
H+K Project No.: 1604B



S101

NAILING SCHEDULE		
CONNECTION	FASTENING	LOCATION
1) JOIST TO SILL OR GIRDER	(3) 8d COMMON	TOENAIL
2) BRIDGING TO JOIST	(2) 8d COMMON	TOENAIL EA. END
3) 1/4" SUBFLOOR OR LESS TO EACH JOIST	(2) 8d COMMON	FACE NAIL
4) WIDER THAN 1/4" SUBFLOOR TO EACH JOIST	(3) 8d COMMON	FACE NAIL
5) 2" SUBFLOOR TO JOIST OR GIRDER	(2) 16d COMMON	BLIND AND FACE NAIL
6) SOLE PLATE TO JOIST OR BLOCKING	16d AT 16" O.C.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	(3) 16d AT 16" O.C.	BRACED WALL PANELS
7) TOP PLATE TO STUD	(2) 16d COMMON	END NAIL
8) STUD TO SOLE PLATE	(4) 8d COMMON	TOENAIL
	(2) 16d COMMON	END NAIL
9) DOUBLE STUDS	16d AT 24" O.C.	FACE NAIL
10) DOUBLE TOP PLATES	16d AT 16" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	(5) 16d COMMON	LAP SPLICE
11) BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(3) 8d COMMON	TOENAIL
12) RM JOIST TO TOP PLATE	8d AT 4"	TOENAIL
13) TOP PLATES, LAPS AND INTERSECTIONS	(2) 16d COMMON	FACE NAIL
14) CONTINUOUS HEADER, TWO PIECES	16d COMMON	16" O.C. ALONG EDGE
15) CEILING JOISTS TO PLATE	(3) 8d COMMON	TOENAIL
16) CONTINUOUS HEADER TO STUD	(4) 8d COMMON	TOENAIL
17) CEILING JOISTS, LAPS OVER PARTITIONS	(3) 16d COMMON MINIMUM	FACE NAIL
18) CEILING JOIST TO PARALLEL RAFTERS	(3) 16d COMMON MINIMUM	FACE NAIL
19) RAFTER TO PLATE	(3) 8d COMMON	TOENAIL
20) 1" BRACE TO EACH STUD AND PLATE	(2) 8d COMMON	FACE NAIL
21) 1/4" SHEATHING TO EACH BEARING	(3) 8d COMMON	FACE NAIL
22) WIDER THAN 1/4" SHEATHING TO EACH BEARING	(3) 8d COMMON	FACE NAIL
23) BUILT-UP CORNER STUDS	16d COMMON	24" O.C.
24) BUILT-UP GIRDER & BEAMS	20d COMMON AT 32" O.C.	FACE NAIL TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	(2) 20d COMMON	FACE NAIL AT ENDS AND AT EACH SPLICE
25) 2" PLANKS	(2) 16d COMMON	AT EACH BEARING
26) COLLAR TIE TO RAFTER	(3) 10d COMMON	FACE NAIL
27) JACK RAFTER TO HP	(3) 10d COMMON	TOENAIL
	(2) 16d COMMON	FACE NAIL
28) ROOF RAFTER TO 2x RIDGE BEAM	(2) 16d COMMON	TOENAIL
	(3) 16d COMMON	FACE NAIL



1
S102

HOLES AND NOTCHES IN BEAMS,
JOISTS AND STUDS
NO SCALE

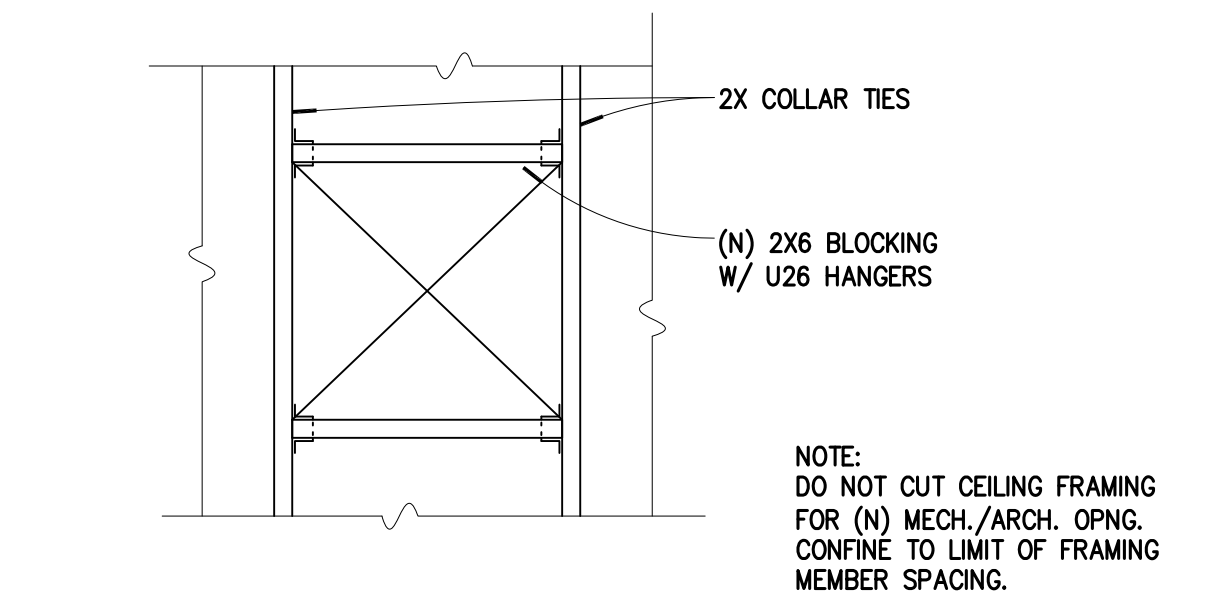
2
S102

PLAN SECTION- INSIDE CORNER
3/4"=1'-0"

3
S102

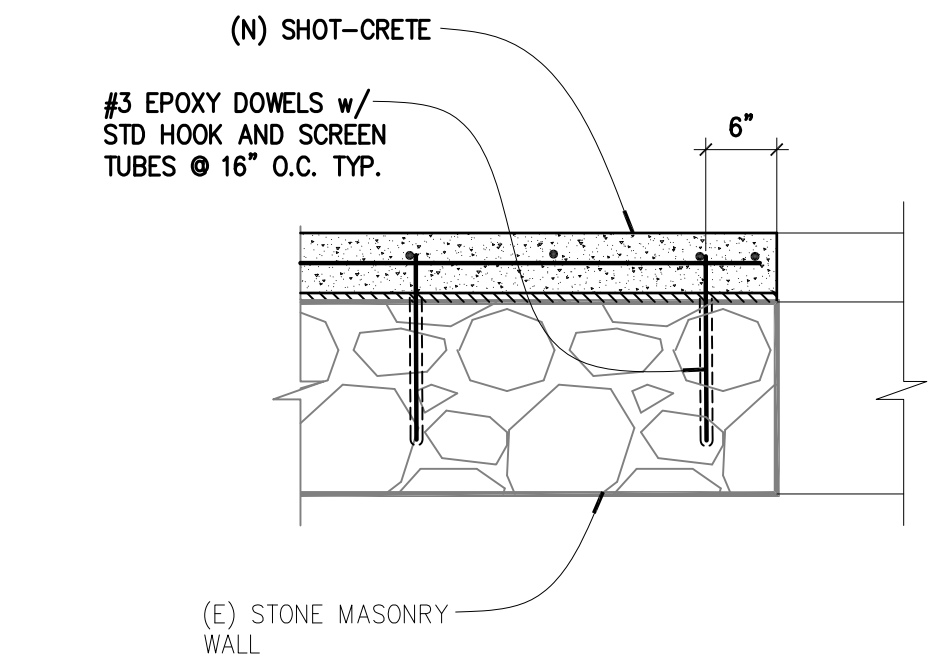
SECTION- SILL / HEAD
3/4"=1'-0"

4
S102



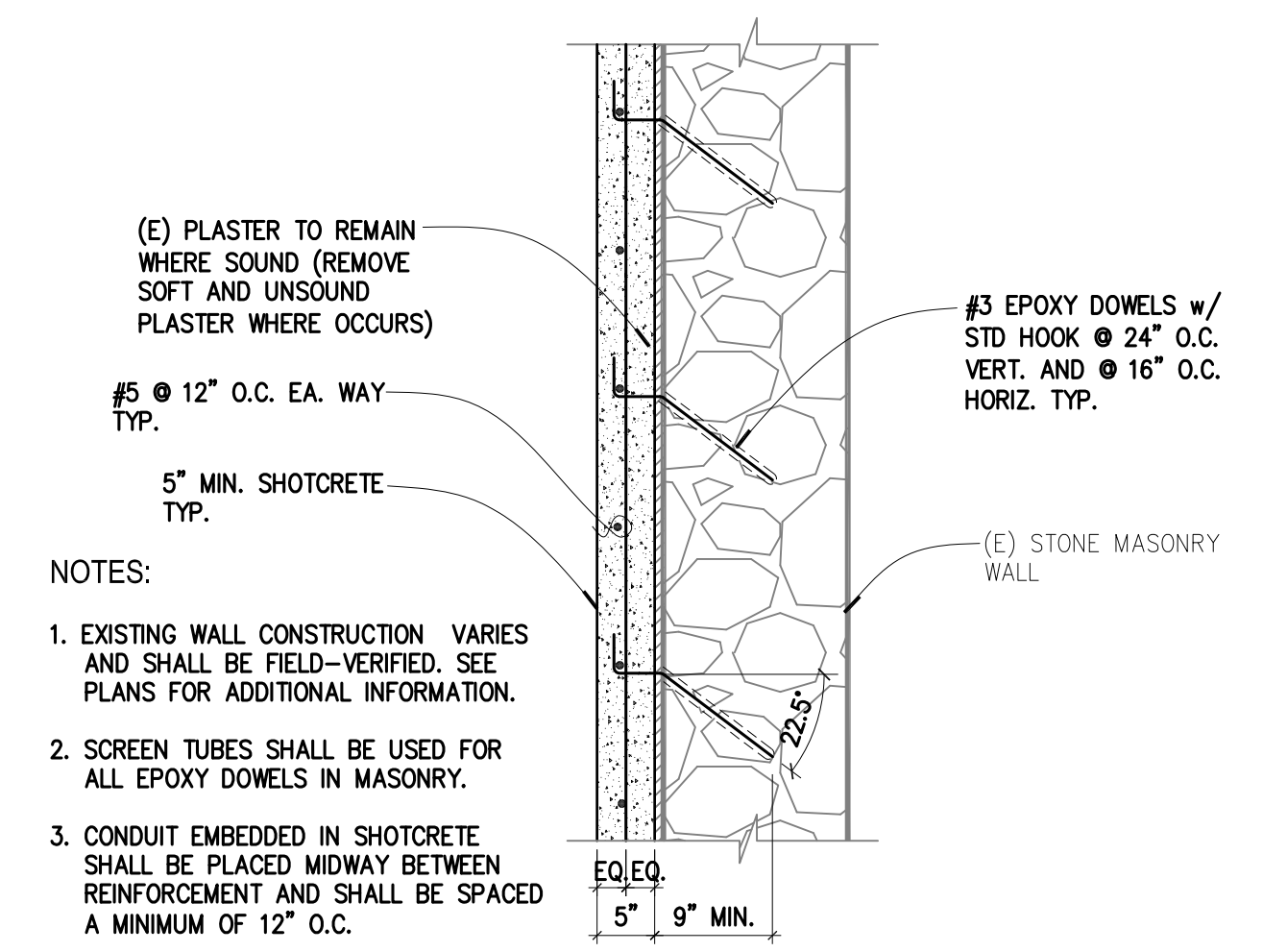
MECHANICAL OPENING
3/4"=1'-0"

5
S102



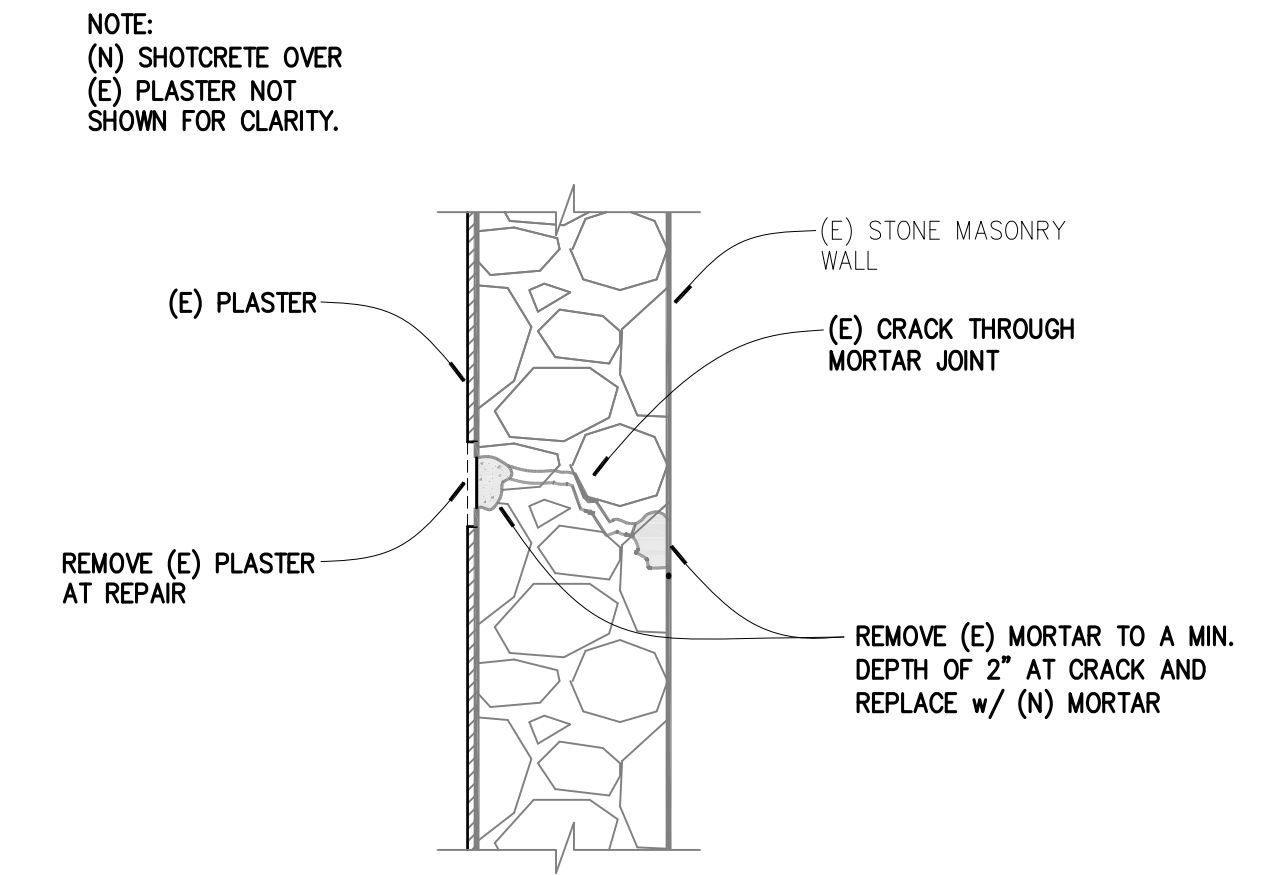
PLAN SECTION- JAMB
3/4"=1'-0"

6
S102



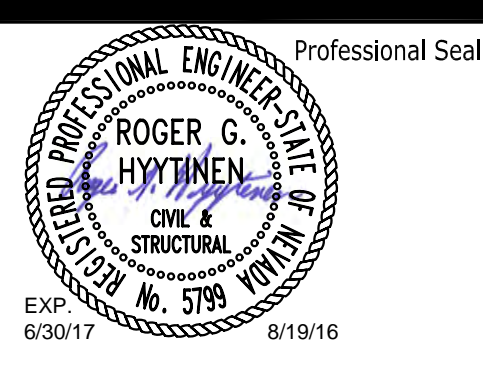
TYPICAL SHOTCRETE WALL SECTION
3/4"=1'-0"

7
S102



STONE MASONRY WALL CRACK REPAIR
3/4"=1'-0"

8
S102



Professional Seal
Date Revision

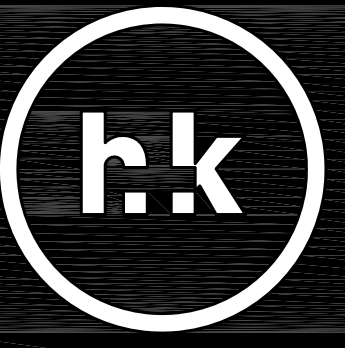
HYTTINEN ENGINEERING LLC
5458 Longley Lane, Suite B
Reno, Nevada 89511
Phone (775) 826-3019
Fax (775) 826-3076

Consultant

H+K ARCHITECTS
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262
P 775+332+6640
F 775+332+6642
hkarchitects.com

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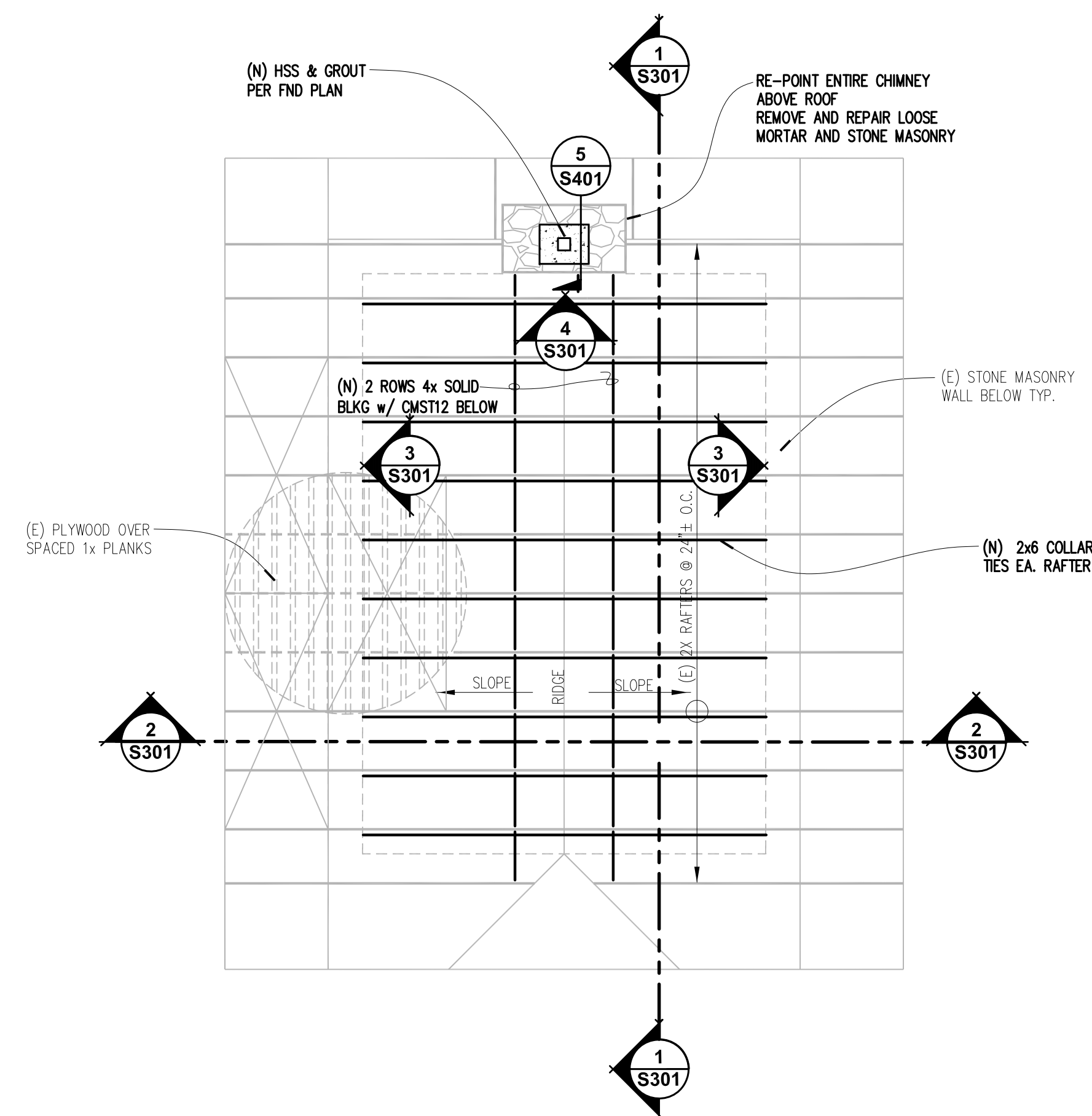
Typical Details
August 19, 2016
H+K Project No.: 1604B



S102

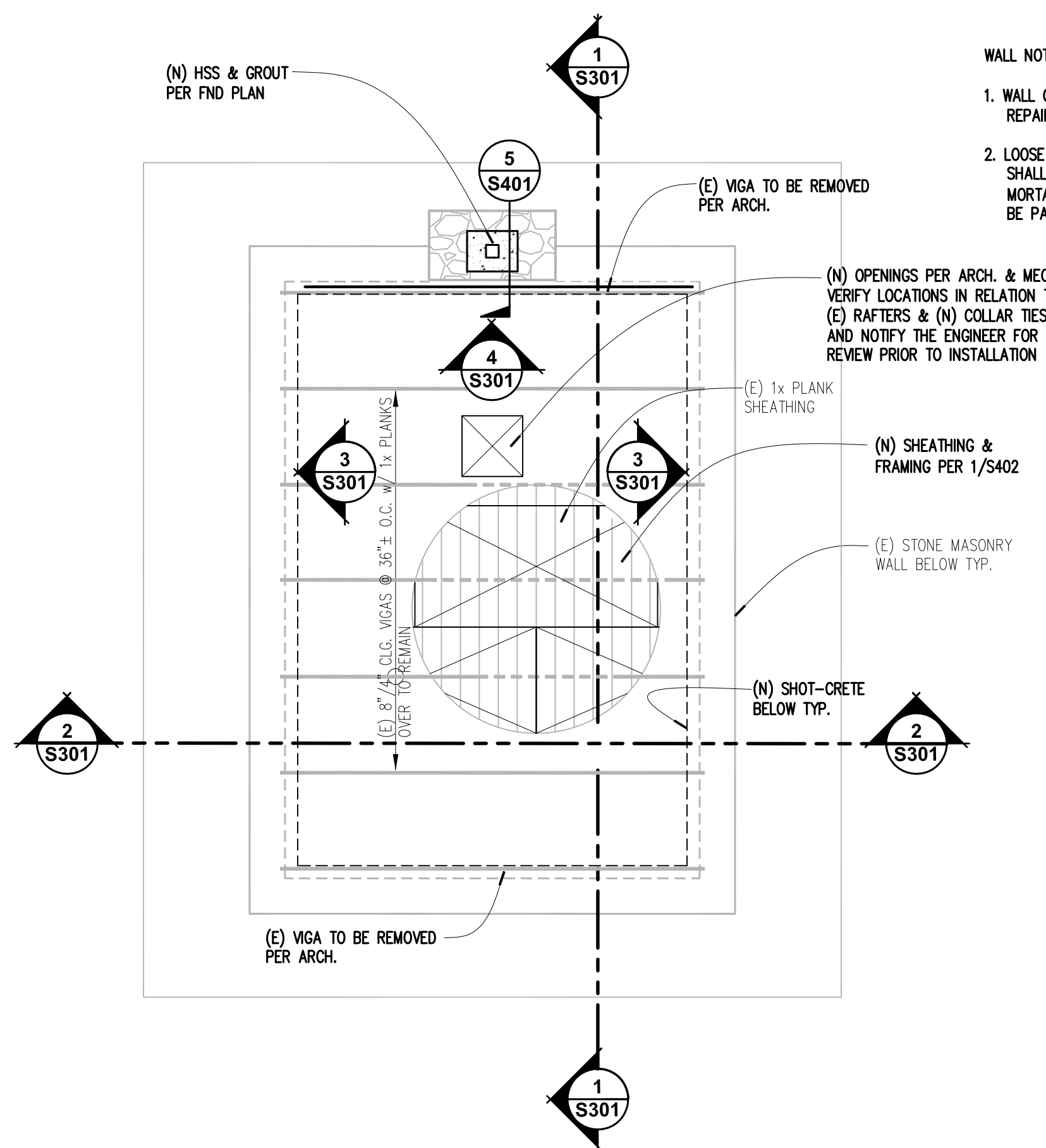
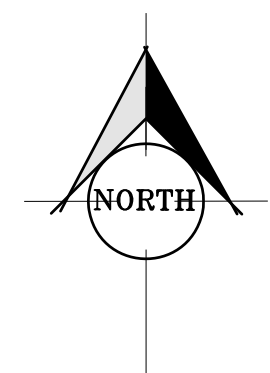
SHEET NOTES:

- IT SHALL BE THE CONTRACTOR'S DIRECT RESPONSIBILITY TO COMPLY WITH DETAILS AND GENERAL NOTES AS OUTLINED WITHIN THESE CONTRACT DOCUMENTS
- DRAWINGS ARE DIAGRAMATIC IN NATURE AND ARE NOT INTENDED TO INDICATE PRECISE LOCATION OR SIZE OF EXISTING FRAMING, WHICH SHALL BE FIELD DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS SO AS TO PROPERLY COORDINATE FOR THE NEW FRAMING REQUIREMENTS OUTLINED IN THESE CONTRACT DOCUMENTS, AND SHALL BRING ANY DISCREPANCY TO THE IMMEDIATE ATTENTION OF THE ARCHITECT, WHO SHALL ISSUE FINAL INSTRUCTIONS FOLLOWING REVIEW.
- FOR AREAS WHERE EXISTING STRUCTURAL FRAMING WILL BE REMOVED, MODIFIED, OR ATTACHED TO, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED AFTER SUCH ITEMS ARE EXPOSED TO REVIEW EXISTING CONDITIONS, VERIFY DESIGN ASSUMPTIONS, AND MAKE REVISIONS AS NECESSARY.
- EXISTING DIMENSIONS, WHERE SHOWN, ARE APPROXIMATE AND INTENDED FOR REFERENCE AND COORDINATION ONLY. THE CONTRACTOR SHALL FIELD-VERIFY ALL BUILDING DIMENSIONS AS REQUIRED FOR SHOP DRAWINGS AND NEW CONSTRUCTION.



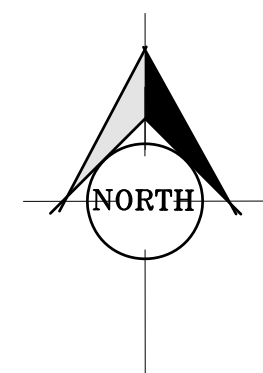
ROOF FRAMING PLAN

1/4"=1'-0"



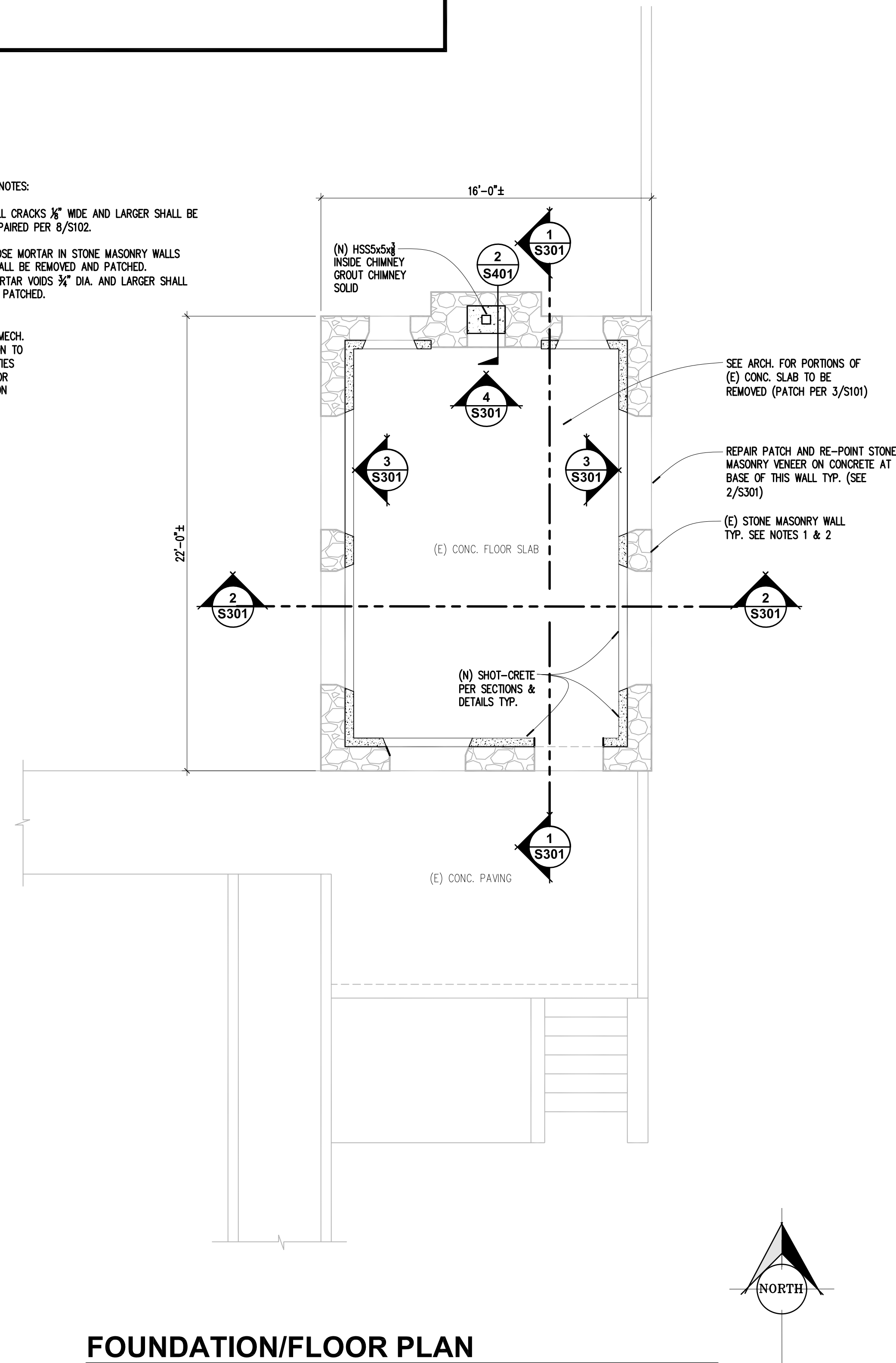
CEILING FRAMING PLAN

1/4"=1'-0"



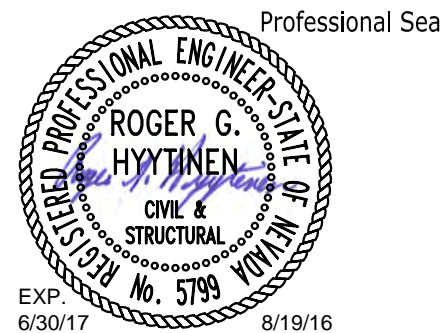
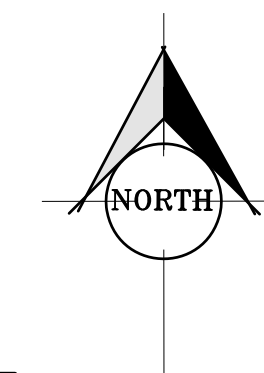
WALL NOTES:

- WALL CRACKS 1/8" WIDE AND LARGER SHALL BE REPAIRED PER 8/S102.
- LOOSE MORTAR IN STONE MASONRY WALLS SHALL BE REMOVED AND PATCHED. MORTAR VOIDS 3/4" DIA. AND LARGER SHALL BE PATCHED.



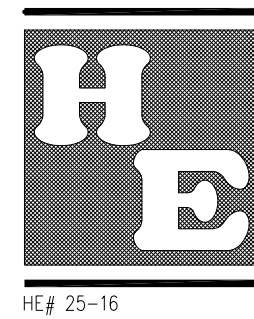
FOUNDATION/FLOOR PLAN

1/4"=1'-0"



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HYTTINEN ENGINEERING LLC

5458 Longley Lane, Suite B
Reno, Nevada 89511
Phone (775) 826-3019
Fax (775) 826-3076

Consultant

H+K ARCHITECTS

5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262

P 775+332+6640
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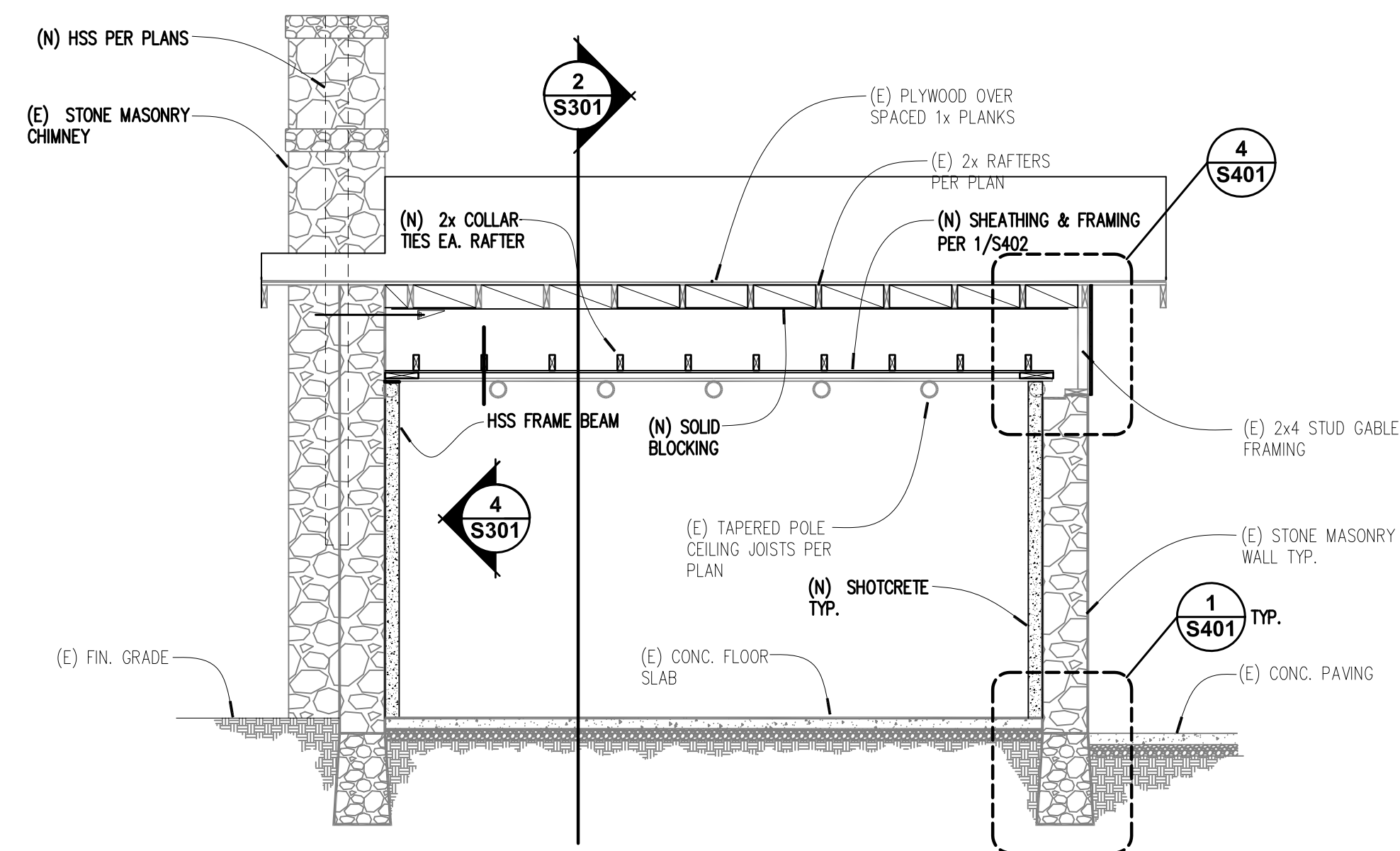
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Carson City, NV 89701

Framing Plans

August 19, 2016
H+K Project No.: 1604B

S201

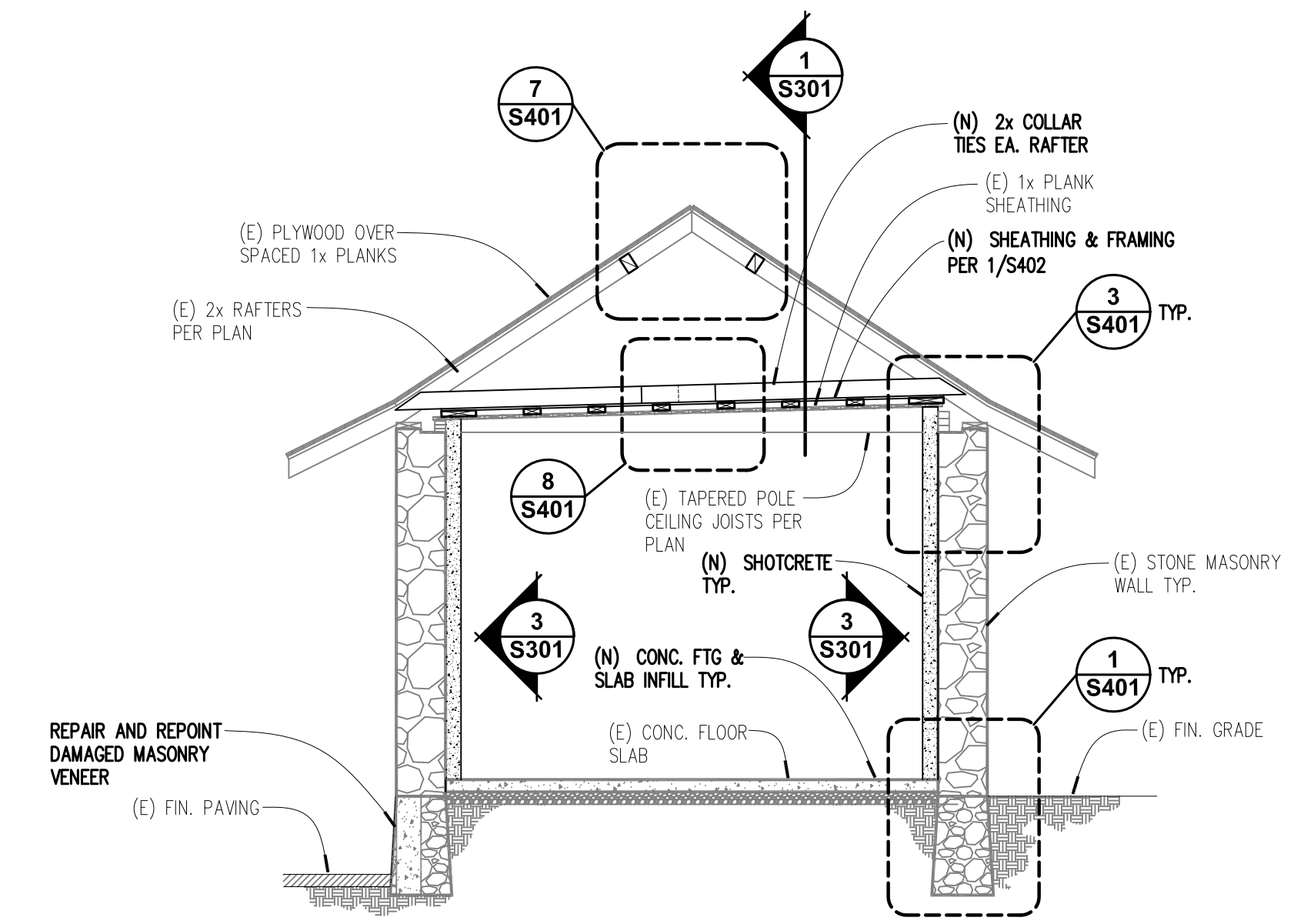




BUILDING SECTION

1/4"=1'-0"

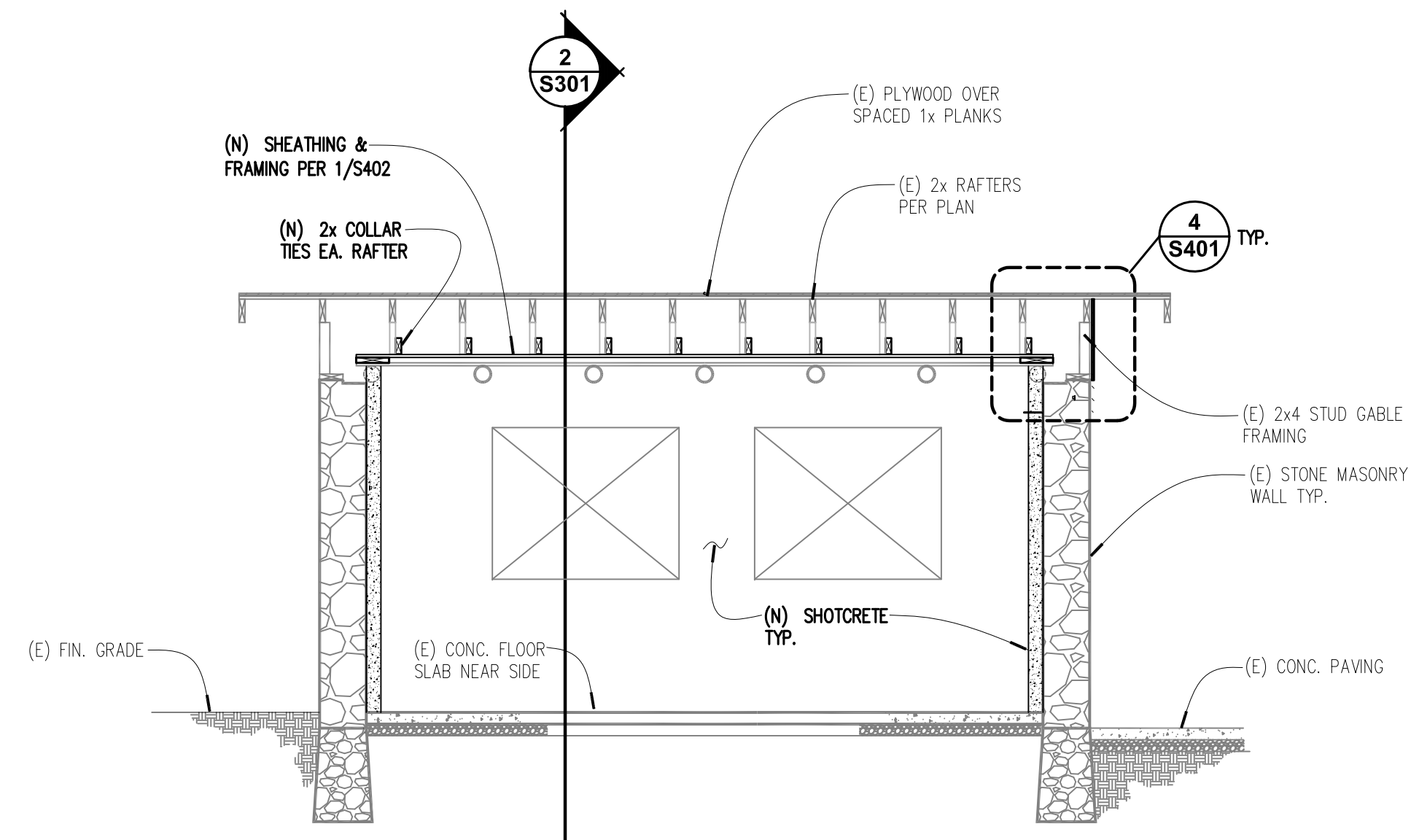
1
S301



BUILDING SECTION

1/4"=1'-0"

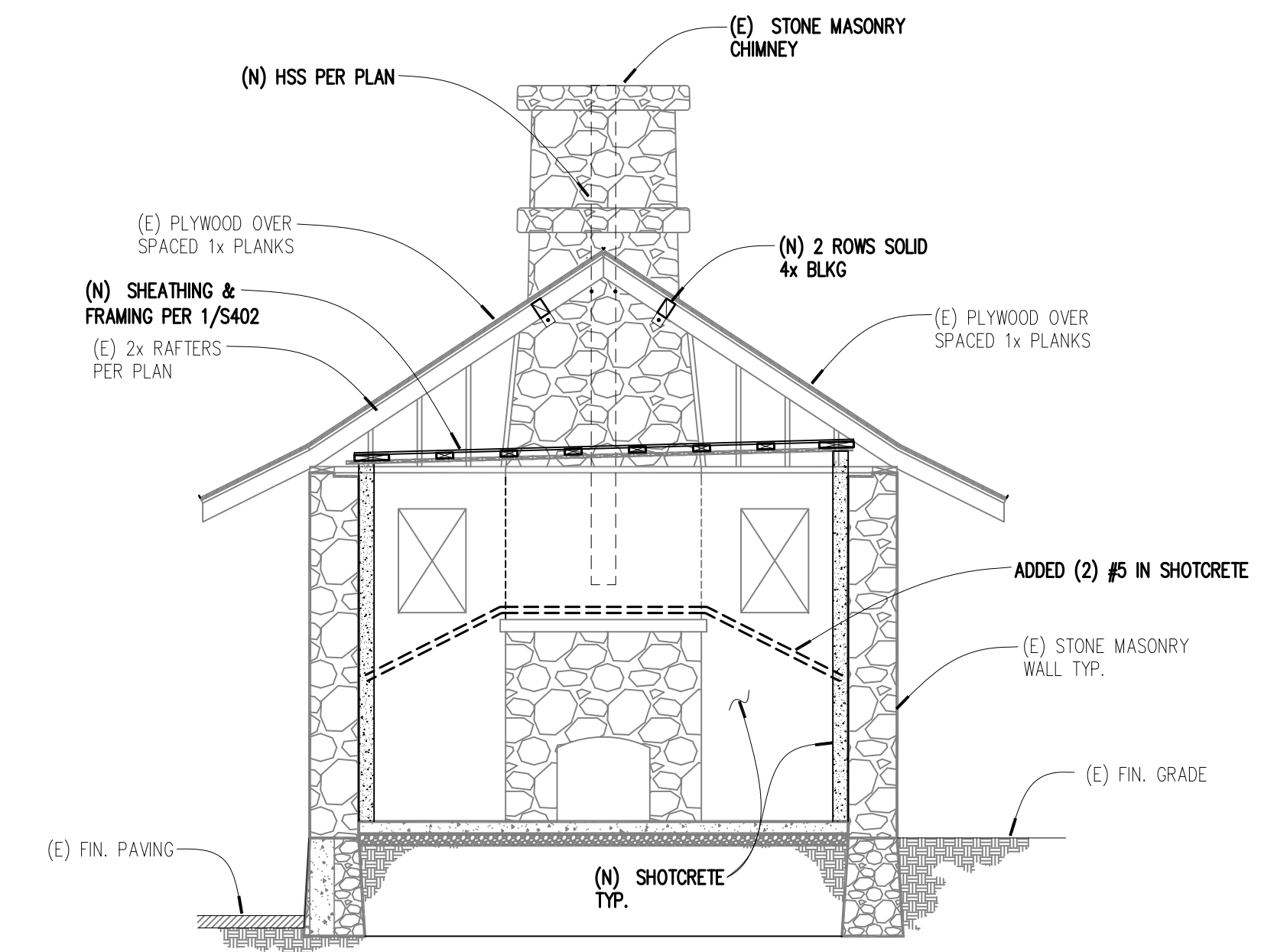
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S301



INTERIOR WALL ELEVATION- EAST & WEST

1/4"=1'-0"

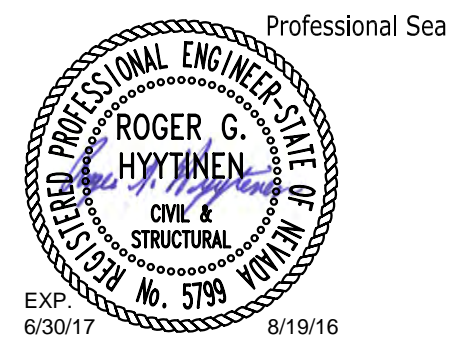
3
S301



NORTH WALL INTERIOR ELEVATION

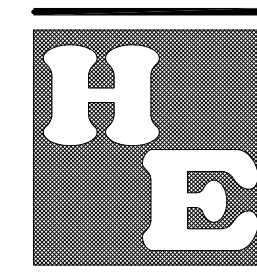
1/4"=1'-0"

4
S301



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5458 Longley Lane, Suite B
Reno, Nevada 89511
Phone (775) 826-3019
Fax (775) 826-3076

Consultant

H+K ARCHITECTS

5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262

P 775-332-6640
F 775-332-6642

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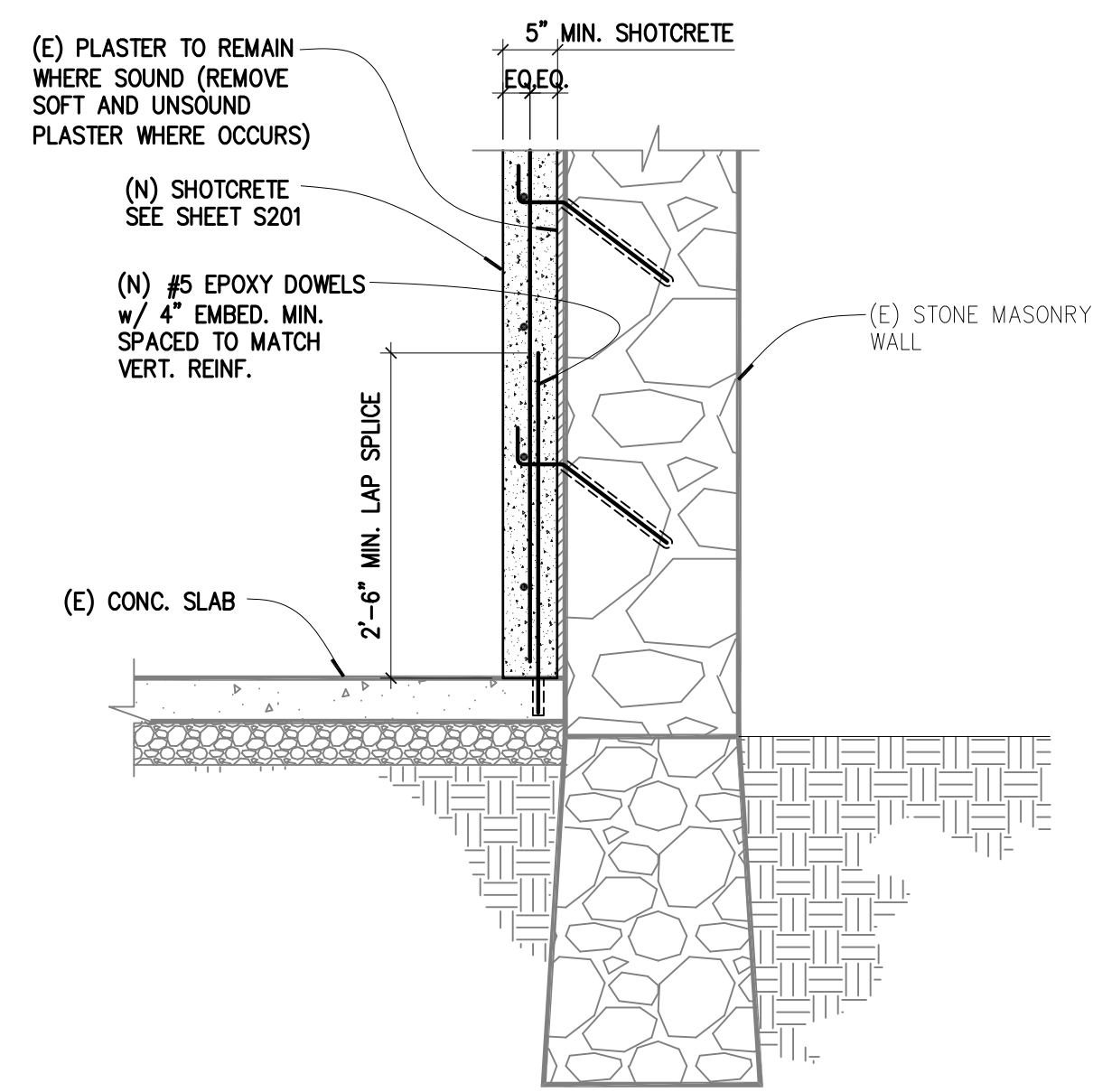
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Building Sections
& Elevations

August 19, 2016
H+K Project No.: 1604B

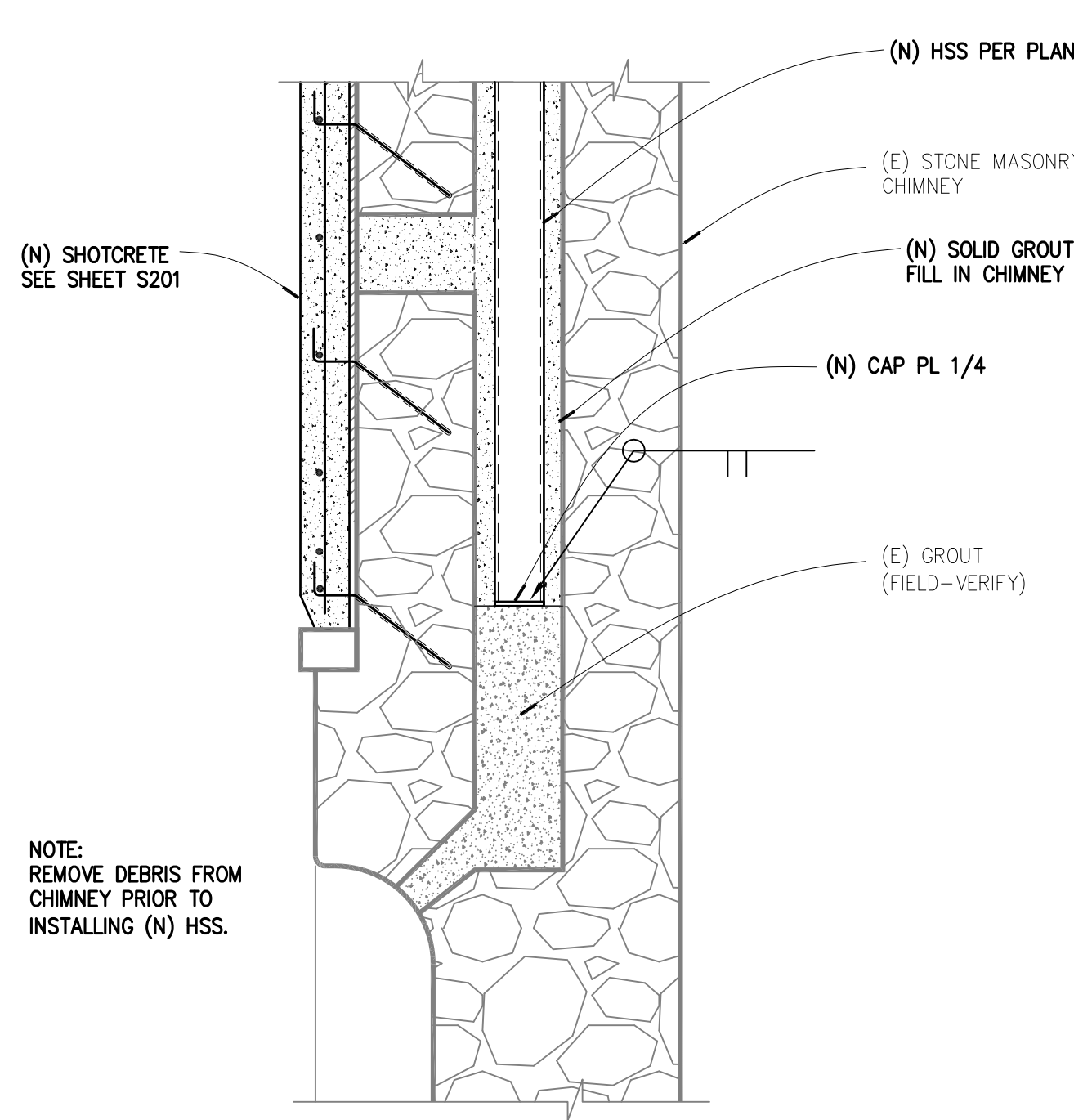
S301





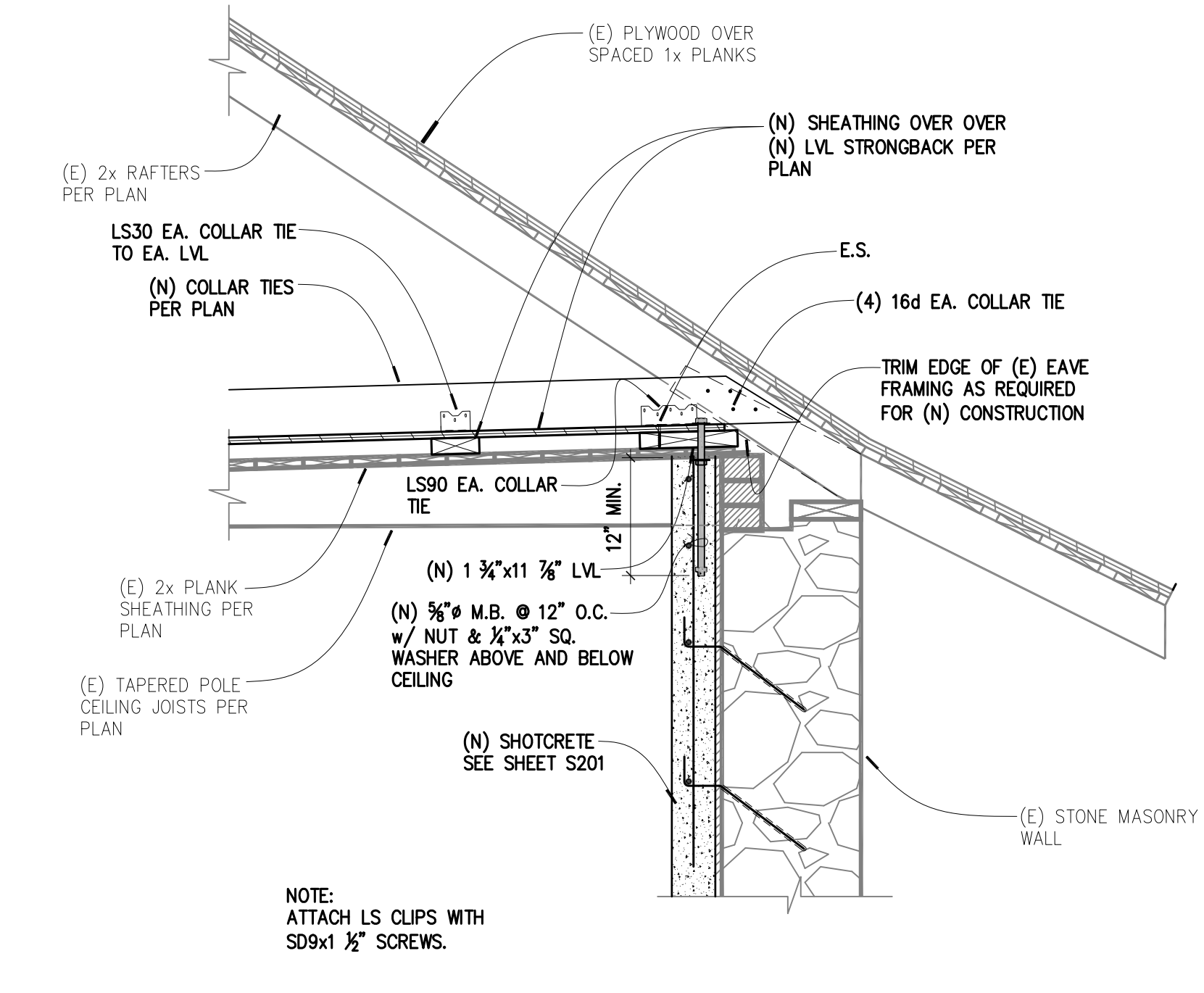
SHOTCRETE ANCHORAGE
3/4"=1'-0"

1
S401



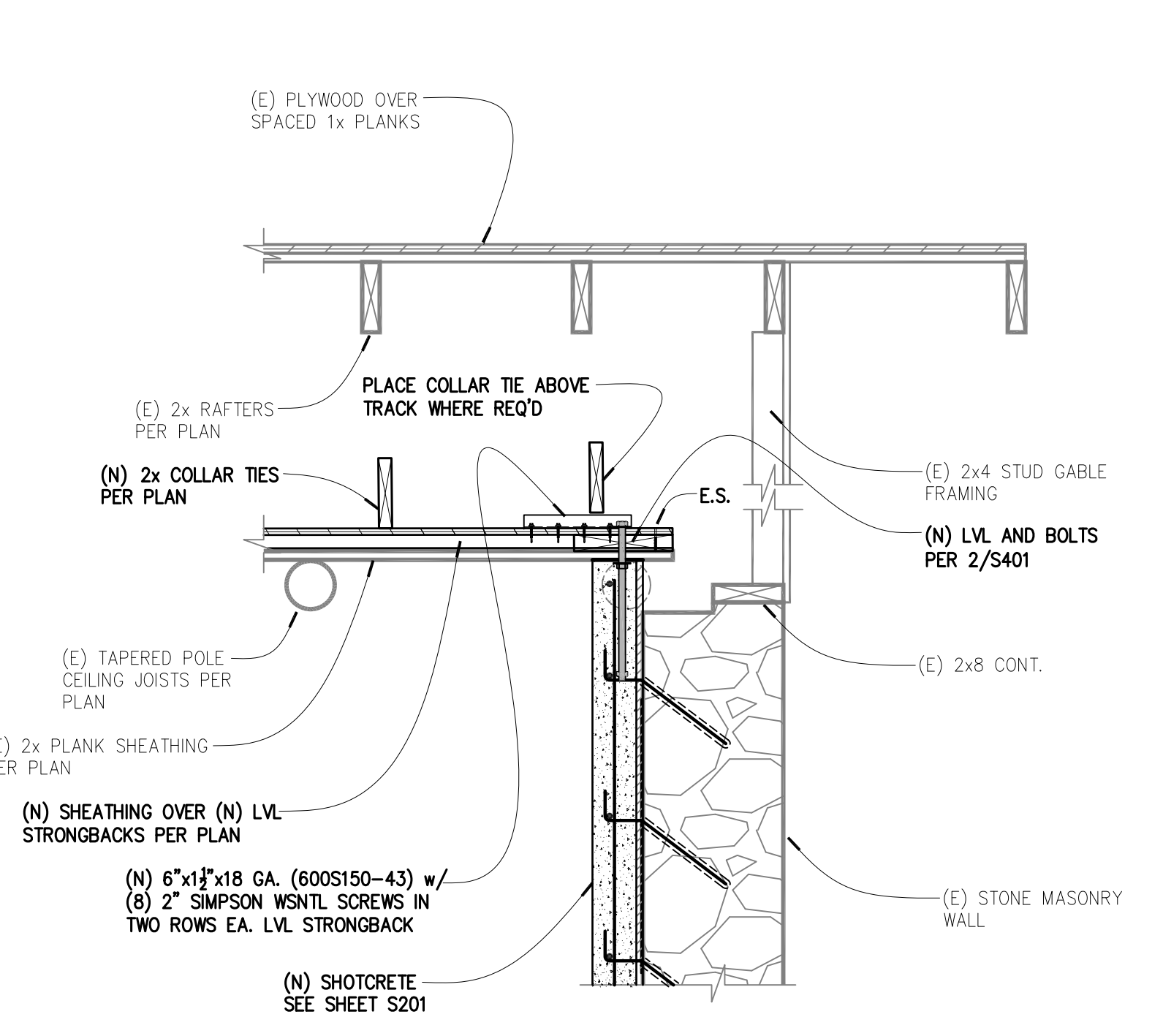
SHOTCRETE ANCHORAGE
3/4"=1'-0"

2
S401



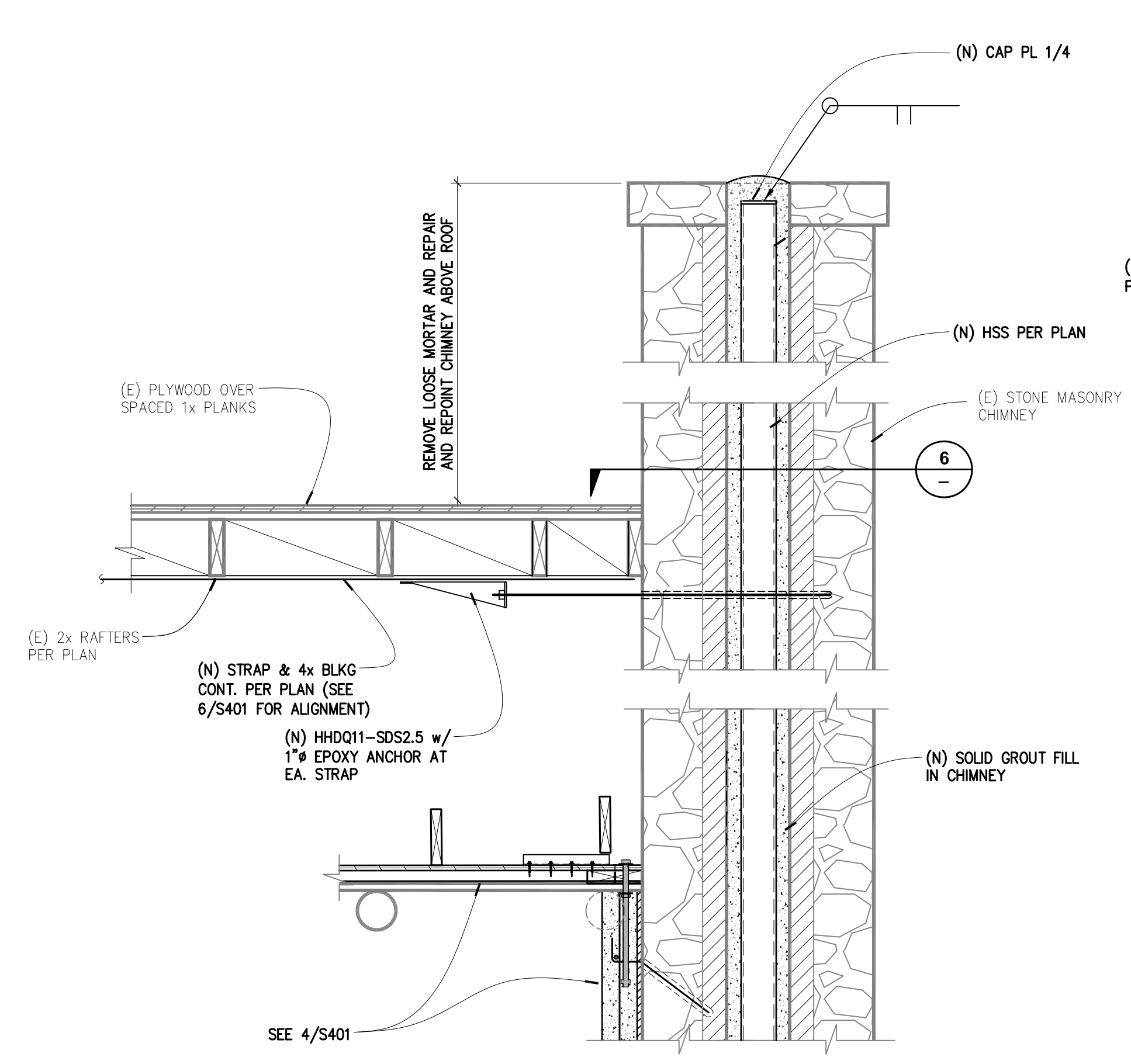
EAVE FRAMING
3/4"=1'-0"

3
S401



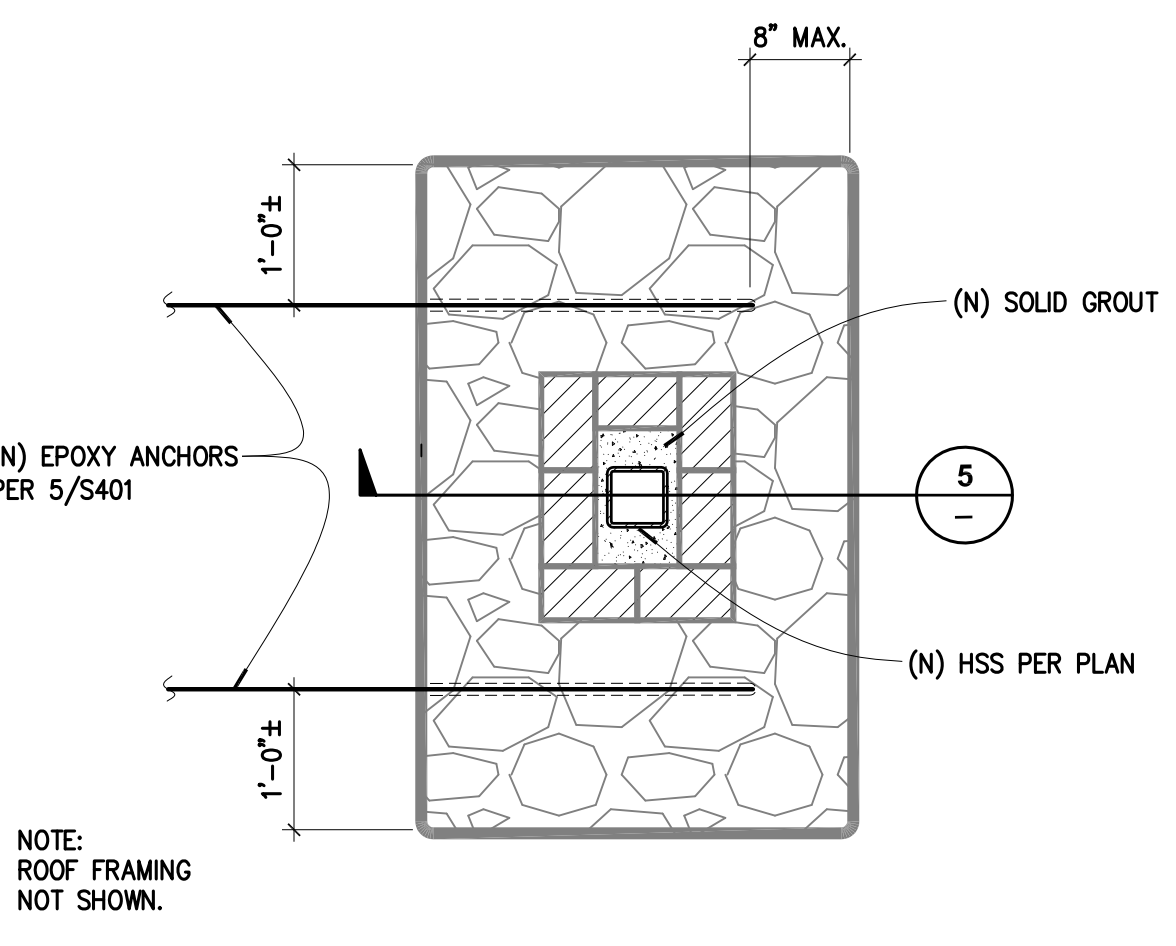
GABLE FRAMING
3/4"=1'-0"

4
S401



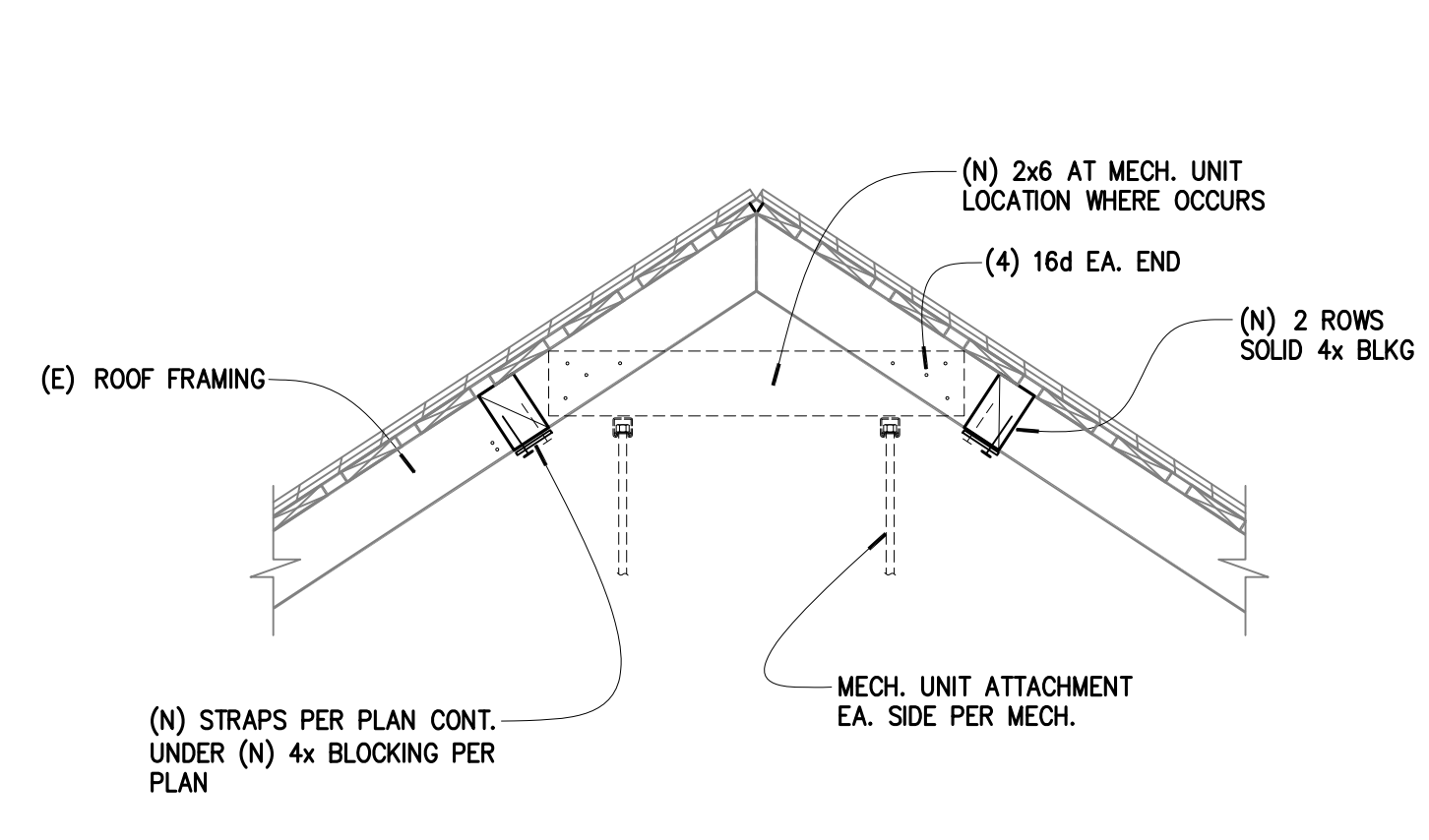
CHIMNEY ANCHORAGE- SECTION
3/4"=1'-0"

5
S401



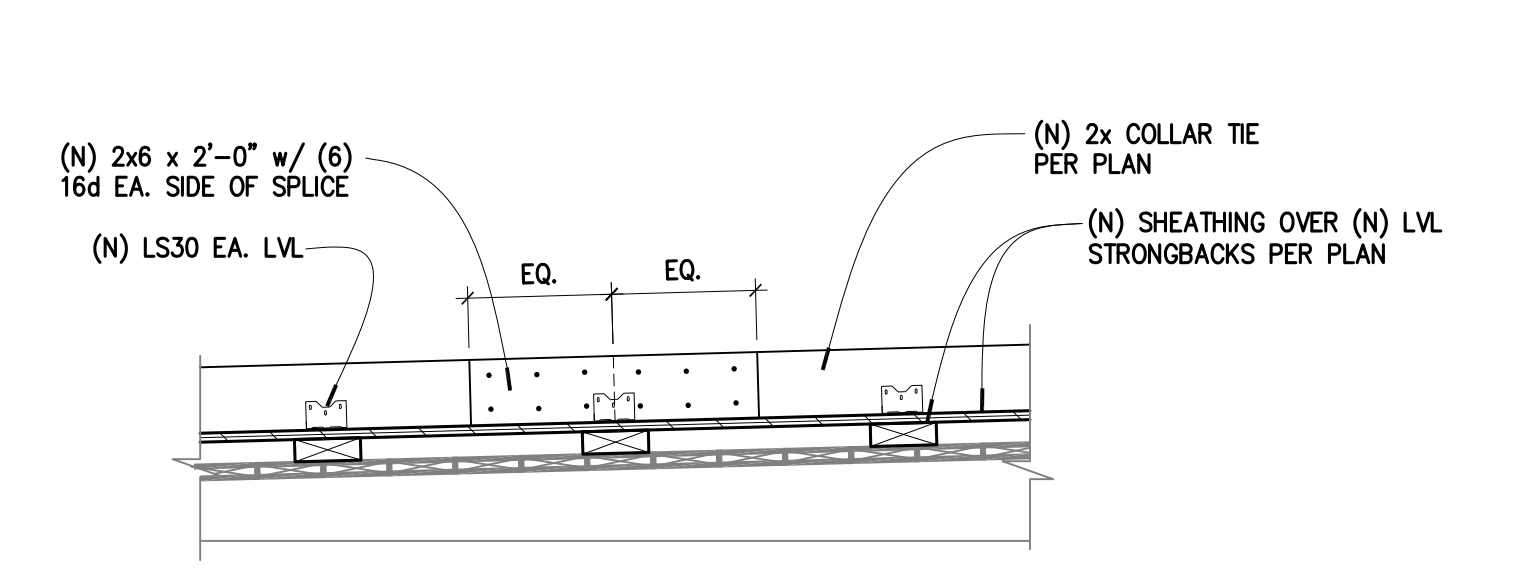
CHIMNEY ANCHORAGE- PLAN
3/4"=1'-0"

6
S401



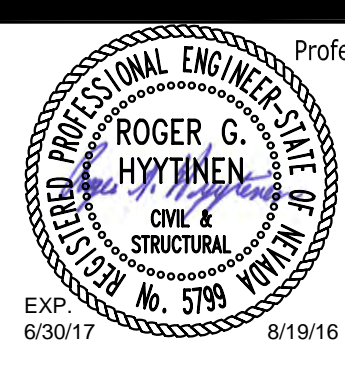
BLOCKING AT RIDGE
3/4"=1'-0"

7
S401



COLLAR TIE SPLICE
3/4"=1'-0"

8
S401



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HYTTINEN ENGINEERING LLC
5458 Longley Lane, Suite B
Reno, Nevada 89511
Phone (775) 826-3019
Fax (775) 826-3076

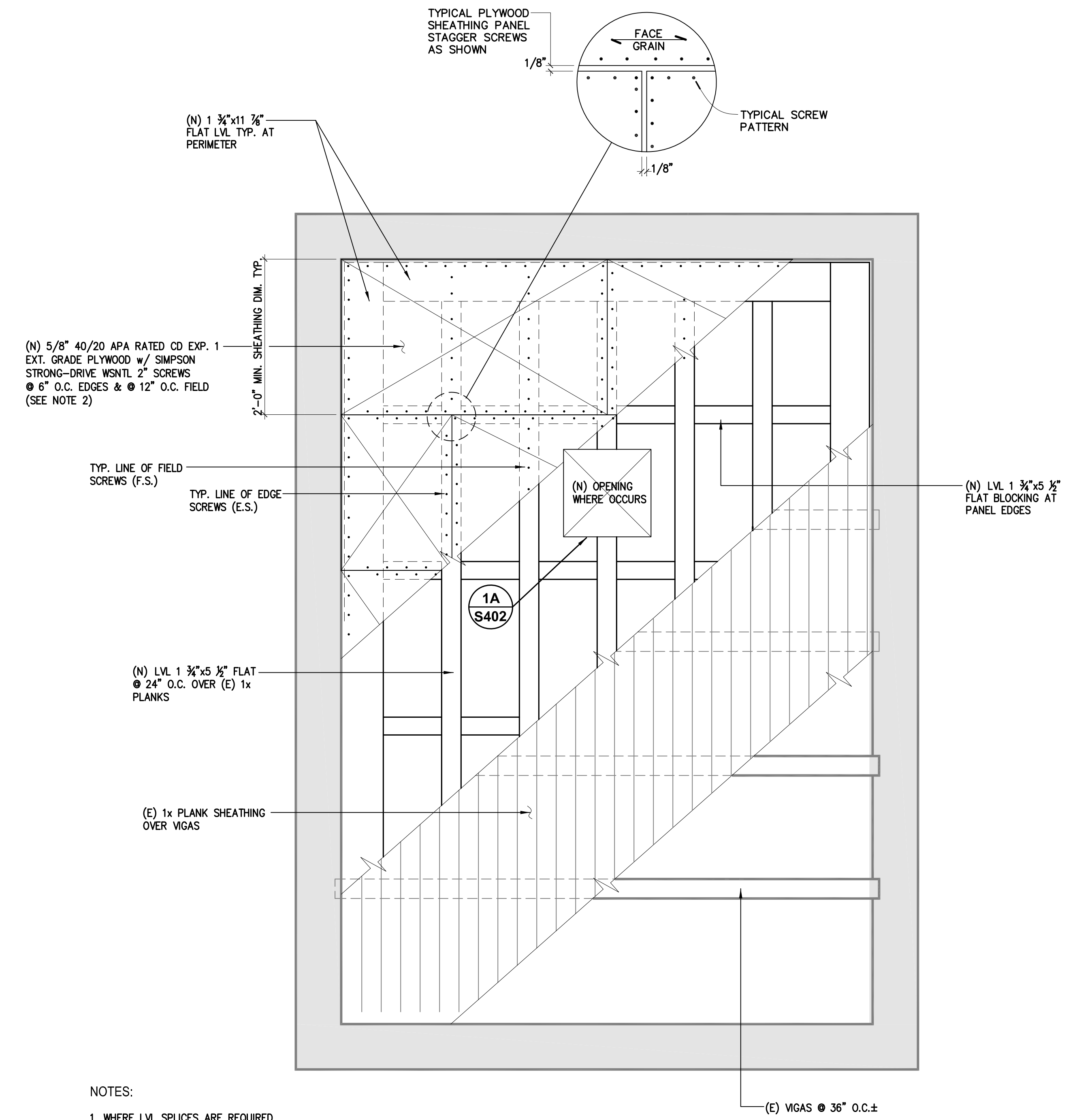
H+K ARCHITECTS
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262
P 775+332+6640
F 775+332+6642
hkarchitects.com

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Sections & Details
August 19, 2016
H+K Project No.: 1604B



S401

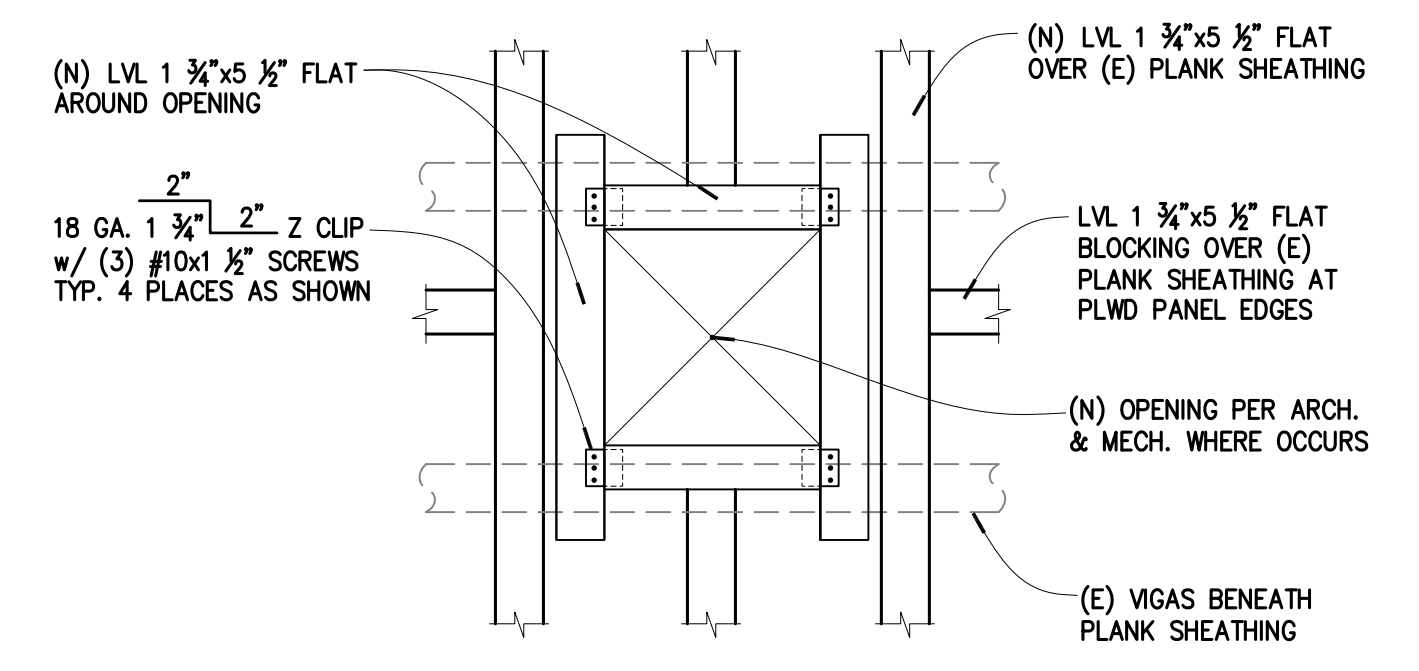


NOTES:

- WHERE LVL SPLICES ARE REQUIRED, CENTER SPLICE DIRECTLY OVER EXISTING VIGA AND PLACE 1'-4" CS22 STRAP w/ 1 1/2" SD9 SCREWS ACROSS SPLICE.
- SHEATHING PANEL WIDTHS ARE LIMITED BY ACCESS OPENING DIMENSIONS

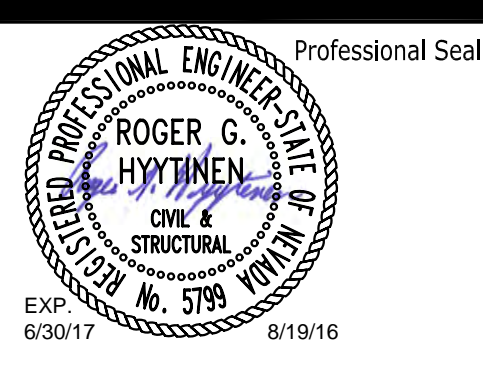
BLOCKED HORIZONTAL DIAPHRAGM
N.T.S.

1
S402



FRAMING FOR NEW CEILING OPENING
N.T.S.

1A
S402



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5458 Longley Lane, Suite B
Reno, Nevada 89511
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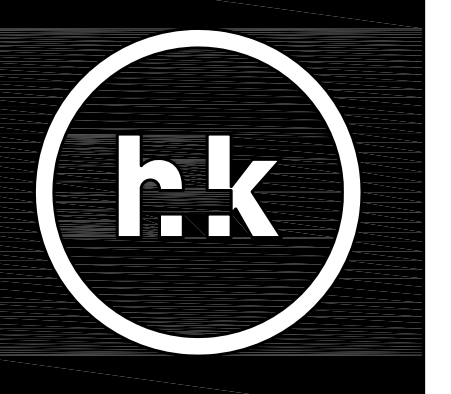
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H+K ARCHITECTS
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262
P 775+332+6640
F 775+332+6642
hkarchitects.com

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Diaphragm
Schematic Plan
August 19, 2016
H+K Project No.: 1604B

S402

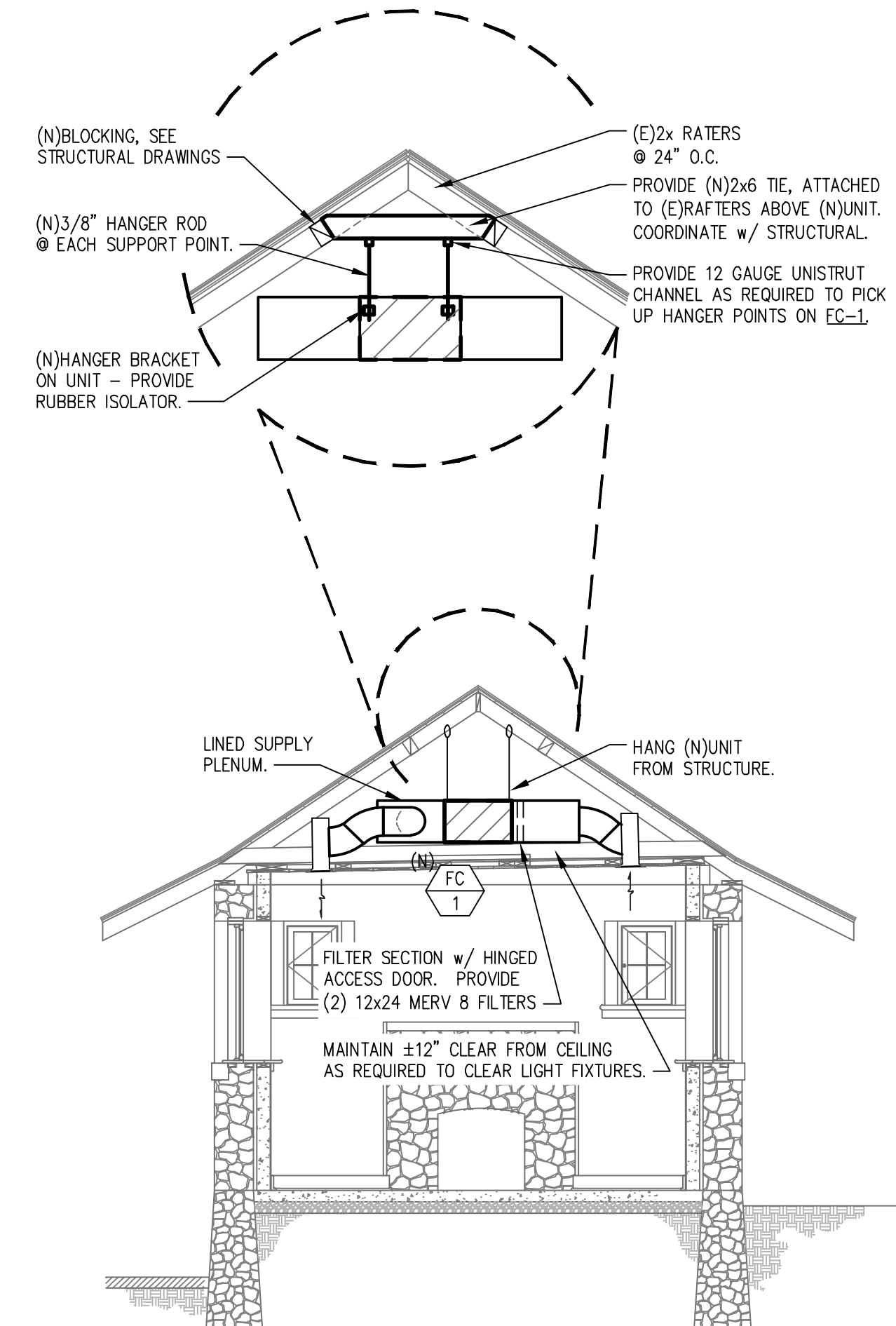


DUCTLESS SPLIT AIR CONDITIONING UNIT

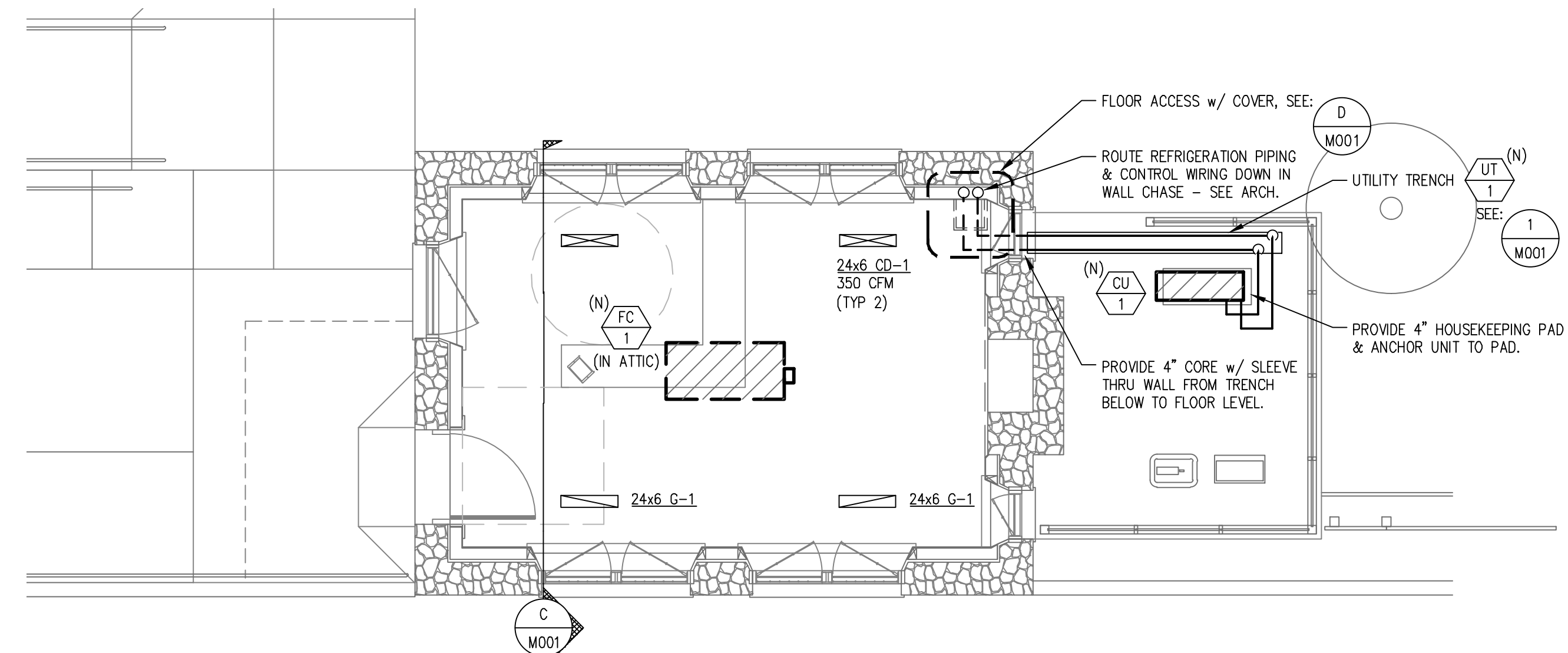
INDOOR UNIT		ELECTRICAL										OPERATING WEIGHT (LBS)	REMARKS					
FC	MANUFACTURER	MODEL NUMBER	TYPE OF UNIT	NOMINAL CAPACITY (TONS)	CFM (LOW)	RETURN AIR TEMP (°F) DB	AMBIENT OUTDOOR AIR TEMP (°F) DB	COOLING CAPACITY (BTUH)	HEATING CAPACITY (MBH)	VOLTS	PHASE			HZ	MCA	MCOP	FLA	
1	LG	LHN367HV	DUCTED HIGH STATIC	3	700	80	67	95	36,000	40,000	230	1	60	-	-	-	125	A,B,C
<p>A. PROVIDE WITH HARD WIRED CONTROLLER MTD. ON WALL</p> <p>B. COMPLETE INSTALLATION SHALL MEET ALL REQUIREMENTS DESCRIBED IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.</p> <p>C. POWERED FROM OUTDOOR UNIT - PROVIDE ALL INTERCONNECT WIRING PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.</p>																		
OUTDOOR UNIT		REFRIGERANT				REFRIGERANT PIPE		ELECTRICAL						OPERATING WEIGHT (LBS)	REMARKS			
CU	MANUFACTURER	MODEL NUMBER	NOMINAL CAPACITY	SEER AT ARI CONDITIONS	TYPE	CHARGE (LBS) *	GAS LINE SIZE (IN.)	LIQUID LINE SIZE (IN.)	VOLTS	PHASE	HZ	MCA	MCOP					
1B	LG	LUU367HV	3	17.6	R-410A	7.4	5/8	3/8	230	1	60	24.5	40	203	A, B, C, D			
<p>A. CONTRACTOR TO PROVIDE ADDITIONAL REFRIGERANT AS REQUIRED DUE TO THE LENGTH OF THE REFRIGERANT PIPING.</p> <p>B. PROVIDE AND INSTALL INSULATION ON DISCHARGE LINE.</p> <p>C. WITH WIND BAFEL</p> <p>D. COMPLETE INSTALLATION SHALL MEET ALL REQUIREMENTS DESCRIBED IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.</p> <p>* WITH UNIT AND 25' LINE KIT - ADJUST AS REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ACTUAL REQUIRED PIPE LENGTH.</p>																		

MECHANICAL LEGEND

ABBR.	SYMBOL	DESCRIPTION
EAT, LAT		ENTERING, LEAVING AIR TEMPERATURE
WB, DB		WET, DRY BULB TEMPERATURE
FPM		FEET PER MINUTE
RPM		REVOLUTIONS PER MINUTE
" WC		INCHES OF WATER COLUMN
TSP		TOTAL STATIC PRESSURE
ΔP		PRESSURE DROP, PRESSURE DIFFERENCE
POC	⊙	POINT OF CONNECTION
POD	⊙	POINT OF DISCONNECT
AFF		ABOVE FINISHED FLOOR
BOD		BOTTOM OF DUCT
RL	— RL —	REFRIGERANT LIQUID PIPING
RV	— RV —	REFRIGERANT VAPOR PIPING
HP RV	— HP RV —	HIGH PRESSURE REFRIGERANT VAPOR



MECHANICAL SECTION
SCALE: 1/4" = 1'-0"
C MO01



MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"
A MO01

SHEET INDEX

SHEET	DESCRIPTION
M001	MECHANICAL LEGEND, SCHEDULES, INDEX & FLOOR PLAN

AIR DISTRIBUTION SCHEDULE

NECK SIZE	DIFFUSER SYMBOL	# OF SLOTS & LENGTH	DIFFUSER SYMBOL
12x12 CD-1 200 CFM, 4W		2 Sx72" CD-3 200 CFM	

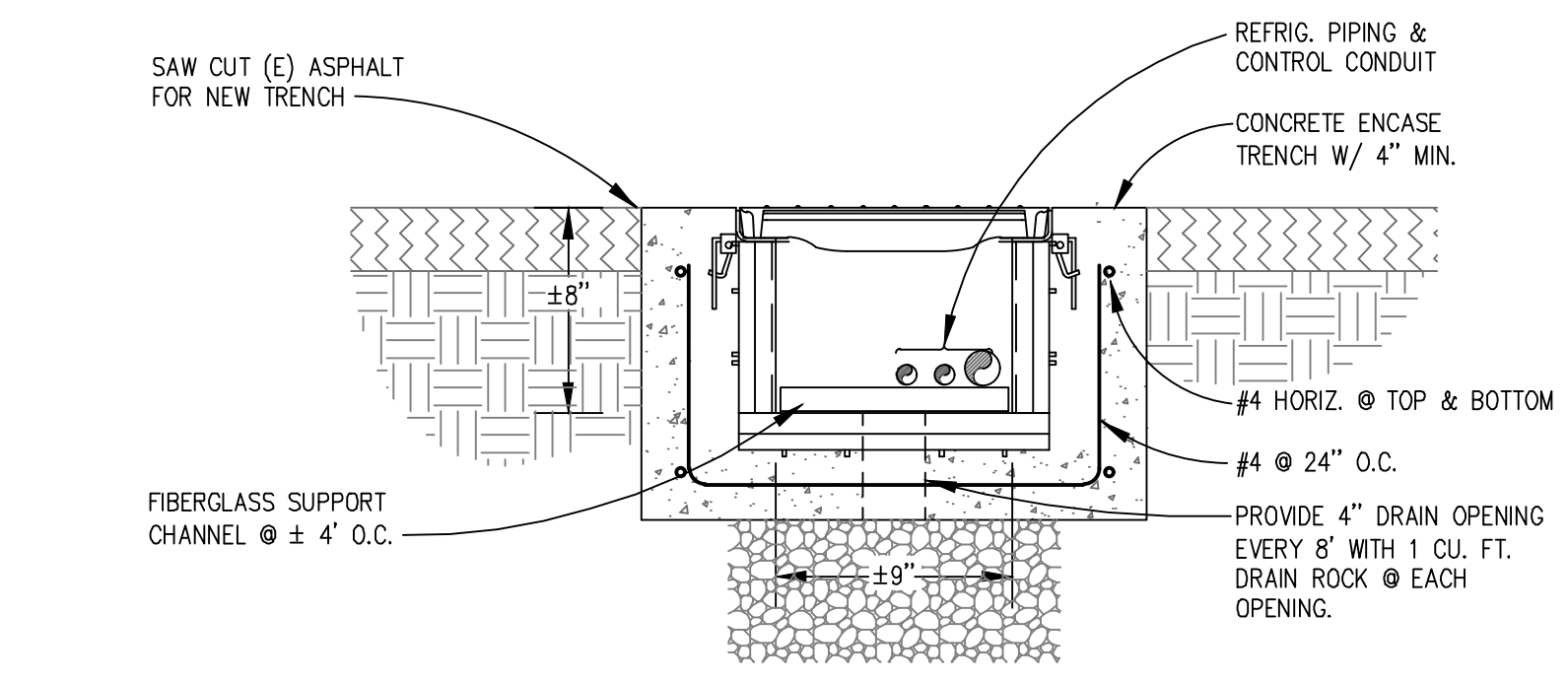
MANUFACTURER SHALL BE NAILOR UNLESS OTHERWISE NOTED. COLOR SHALL BE OFF-WHITE WITH INTERIOR FLAT BLACK UNLESS NOTED OTHERWISE.

SYMBOL	TYPE	FACE	FRAME	MODEL #	REMARKS
CD-1	SUPPLY	LINEAR LOUVER	SURFACE	48LL2	DIRECTIONAL VANES AND SCREW HOLES
G-1	RETURN	LINEAR LOUVER	SURFACE	48LL1	DIRECTIONAL VANES AND SCREW HOLES

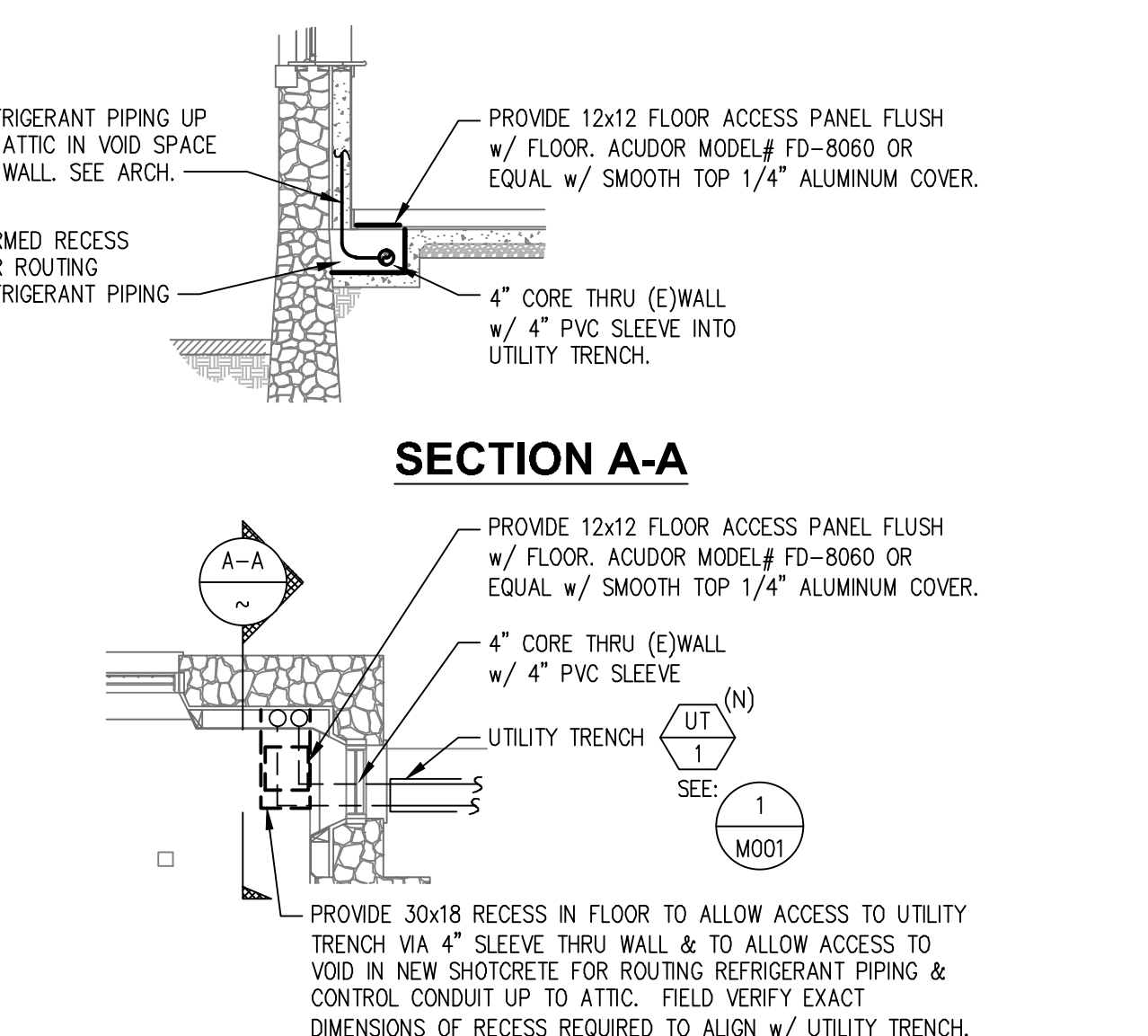
NOTE:
1. DESIGN IS BASED ON LISTED MANUFACTURER - EQUIPMENT OF SIMILAR SIZE, WEIGHT AND PERFORMANCE WILL BE CONSIDERED FOR APPROVAL

MISCELLANEOUS EQUIPMENT SCHEDULE

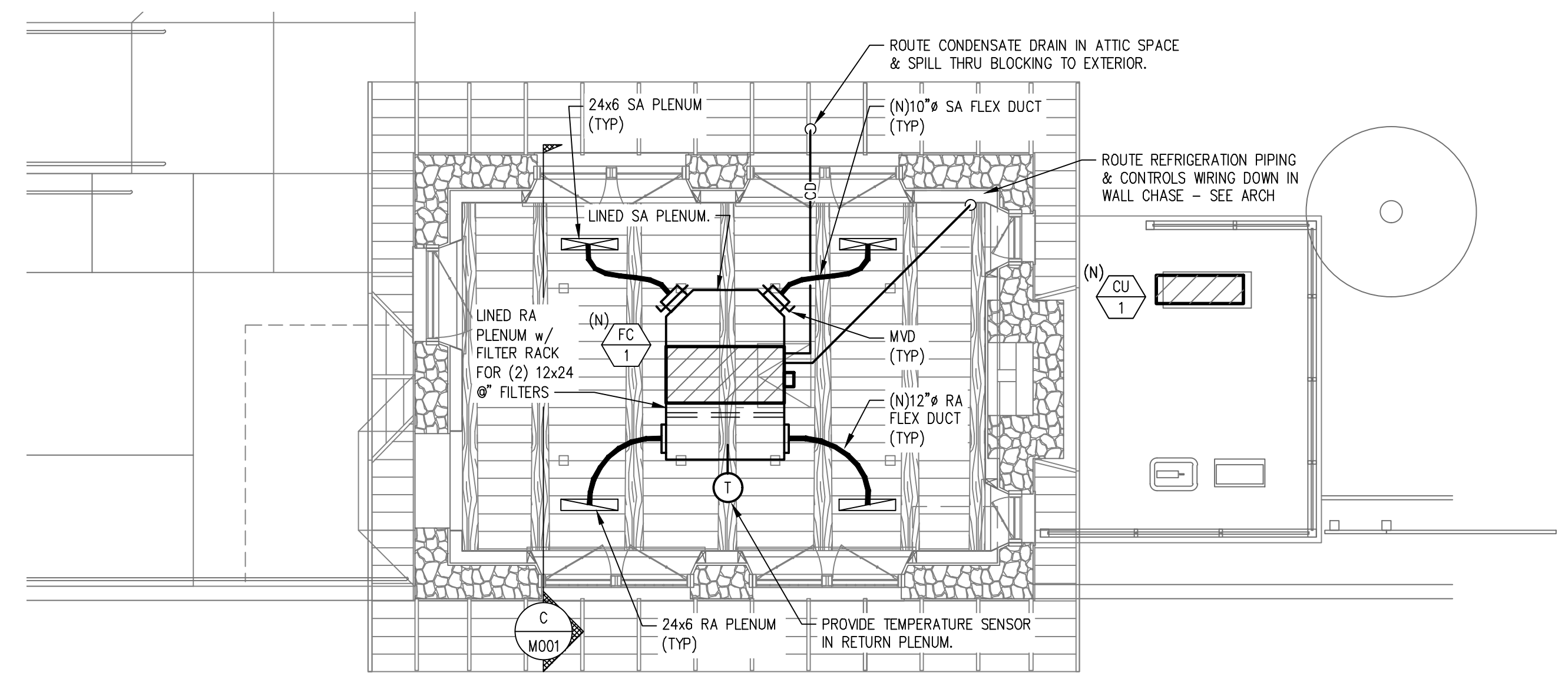
UT	UTILITY TRENCH
1	ZURN Z874-U-9-HD UTILITY TRENCH WITH STEEL FRAME. TRENCH SHALL BE APPROXIMATELY 9" WIDE AND 8" DEEP. CHANNELS SHALL HAVE 0% SLOPE AND BE FURNISHED WITH DUCTILE IRON SOLID COVER THAT LOCK DOWN TO FRAME. PROVIDE APPROXIMATELY 8 FOOT OF TRENCH AND COVER WITH A 4" DRAIN OPENING IN BOTTOM AT APPROXIMATELY MIDDLE OF TRENCH, FIELD VERIFY EXACT LENGTH, SEE DETAILS ON DRAWING.



UTILITY TRENCH
SCALE: NONE
1 MO01



ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"
D MO01



MECHANICAL ATTIC PLAN
SCALE: 1/4" = 1'-0"
B MO01

3166-m01.dwg August 17, 2016 5:00 PM

Professional Seal

 Date: _____ Revision: _____
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Consultant

PETTY & ASSOCIATES, INC.
 MECHANICAL ENGINEERING CONSULTANTS
 1375 GREG STREET, SUITE 106
 SPARKS, NEVADA 89431
 (775) 359-5777 FAX: 359-1119
 PA# 316616

H+K ARCHITECTS
 5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262
 P 775+332+6640
 F 775+332+6642
 hkarchitects.com

**Stewart Indian School
 Welcome Center**
 State of Nevada Indian Commission
 5366 Snyder Avenue, Building 2
 Carson City, NV 89701

Mechanical Legend,
 Schedules, Index &
 Floor Plan
 August 19, 2016
 H+K Project No.: 1604B
M001

DRAWING SCHEDULE		NO. OF SHEETS 17 AUGUST 2016
SHEET	DESCRIPTION	
E001	ELECTRICAL LEGEND & DRAWING SCHEDULE	●
E002	TELECOM LEGENDS & GENERAL NOTES	●
E003	FIXTURE SCHEDULE & LIGHTING COMPLIANCE CALCULATIONS	●
E004	PANEL SCHEDULES, ONE-LINE DIAGRAMS & LOAD CALCULATIONS	●
E005	DETAILS	●
E101	ELECTRICAL SITE PLAN	●
E201	ELECTRICAL DEMOLITION PLAN	●
E301	NEW WORK ELECTRICAL PLANS	●
TOTAL SHEETS IN ISSUE:		8

ELECTRICAL LEGEND		AUGUST 2011	
<p>■ PANELBOARD: SURFACE MOUNTED</p> <p>▬ PANELBOARD: FLUSH MOUNTED</p> <p>▭ SWITCHBOARD OR DISTRIBUTION PANEL</p> <p>⊠ TRANSFORMER</p> <p>⊠ PULLBOX / VAULT</p> <p>⊠ MOTOR STARTER</p> <p>⊠ COMBINATION MOTOR STARTER</p> <p>⊠ COMBINATION MOTOR STARTER PROVIDED BY OTHERS</p> <p>⊠ DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE)</p> <p>⊠ DISCONNECT SWITCH - NON-FUSIBLE</p> <p>⊠ DISCONNECT SWITCH PROVIDED BY OTHERS</p> <p>⊠ VARIABLE FREQUENCY DRIVE</p> <p>⊠ VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS</p> <p>⊠ ENCLOSED CIRCUIT BREAKER</p> <p>⊠ GROUND ROD</p> <p>⊠ SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON</p> <p>⊠ REMOTE METER</p>	<p>⊠ SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO)</p> <p>⊠ DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO)</p> <p>⊠ DUPLEX RECEPTACLE: HALF SWITCHED</p> <p>⊠ DUPLEX RECEPTACLE: FLOOR MOUNTED</p> <p>⊠ QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO)</p> <p>⊠ QUAD RECEPTACLE: FLOOR MOUNTED</p> <p>⊠ ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE) - 20A, 125V, NEMA 5-20/G, +18" AFF (UNO)</p> <p>⊠ DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI +18" AFF (UNO)</p> <p>⊠ DUPLEX RECEPTACLE: ABOVE COUNTER (VERIFY HEIGHT)</p> <p>SPECIAL PURPOSE RECEPT.: SEE DWGS FOR NEMA CONFIG.</p> <p>⊠ DUPLEX RECEPTACLE: CEILING MOUNTED</p> <p>⊠ MULTI-OUTLET ASSEMBLY: SPACING PER DWGS</p>	<p>⊠ DATA / VOICE OUTLET: 18" AFF (UNO) - 1 VOICE, 1 DATA JACK, 2 BLANKS</p> <p>⊠ DATA / VOICE OUTLET: FLOOR MOUNTED</p> <p>⊠ DATA / VOICE OUTLET: ABOVE COUNTER (VERIFY HEIGHT)</p> <p>⊠ MULTI-OUTLET ASSEMBLY: SPACING PER DWGS</p> <p>⊠ TELEPHONE OUTLET: 18" AFF (UNO)</p> <p>⊠ DATA OUTLET: 18" AFF (UNO)</p> <p>⊠ SPEAKER</p> <p>⊠ TELEVISION OUTLET: 18" AFF (UNO)</p> <p>⊠ TELEPHONE TERMINAL BOARD (TTB)</p> <p>⊠ VOLUME CONTROL</p> <p>⊠ GROUNDING BAR</p>	<p>⊠ GROUND FAULT INTERRUPTER DEVICE</p> <p>⊠ METERING DEVICE</p> <p>⊠ REMOTE METER</p> <p>⊠ SHUNT TRIP DEVICE</p> <p>⊠ TRANSFORMER</p> <p>⊠ CURRENT TRANSFORMER</p> <p>⊠ GENERATOR</p> <p>⊠ MOTOR - # INDICATES HP</p> <p>⊠ INTERRUPTER SWITCH</p> <p>⊠ GROUND FAULT RELAY W/ CT OR SENSOR</p> <p>⊠ FUSE</p> <p>⊠ CIRCUIT BREAKER</p> <p>⊠ DRAWOUT CIRCUIT BREAKER</p> <p>⊠ TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) # FOR POLES 2, 3 OR 4</p> <p>⊠ SURGE PROTECTION DEVICE</p>
<p>⊠ SINGLE POLE SWITCH 48" AFF (UNO)</p> <p>⊠ THREE WAY SWITCH 48" AFF (UNO)</p> <p>⊠ FOUR WAY SWITCH 48" AFF (UNO)</p> <p>⊠ KEY OPERATED SWITCH 48" AFF (UNO)</p> <p>⊠ SWITCH WITH LIGHTED HANDLE</p> <p>⊠ MANUAL MOTOR STARTER</p> <p>⊠ SWITCH WITH PILOT LIGHT 48" AFF (UNO)</p> <p>⊠ TIME WALL SWITCH 48" AFF (UNO)</p> <p>⊠ DIMMER OPERATED SWITCH 48" AFF (UNO)</p> <p>⊠ OCCUPANCY SENSOR - WALL MOUNTED 48" AFF (UNO)</p> <p>⊠ OCCUPANCY SENSOR - CEILING MOUNTED. ARROWS INDICATE COVERAGE, DIRECTION & PATTERN. PROVIDE WITH POWER PACK PER MFG REQUIREMENTS.</p> <p>⊠ CONTROL STATION</p> <p>⊠ CONTACTOR OR RELAY</p> <p>⊠ PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO)</p> <p>⊠ TIMECLOCK</p> <p>⊠ EMERGENCY LIGHTING INVERTER</p>	<p>⊠ LIGHTING FIXTURE - LOWERCASE LETTER DENOTES SWITCHING (a = CENTER LAMP, b = OUTER LAMPS)</p> <p>⊠ WALL MOUNTED FIXTURE</p> <p>⊠ RECESSED DOWNLIGHT</p> <p>⊠ SURFACE LUMINAIRE</p> <p>⊠ POLE MOUNTED LIGHT (# OF HEADS INDICATED ON DRAWING)</p> <p>⊠ FLUORESCENT STRIP FIXTURE</p> <p>⊠ BOLLARD</p> <p>⊠ RECESSED DOWNLIGHT (WALL WASH)</p> <p>⊠ TRACK LIGHTING</p> <p>⊠ EMERGENCY LIGHTING UNIT</p> <p>⊠ EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS DENOTE DIRECTION</p> <p>⊠ EMERGENCY FIXTURE</p>	<p>⊠ LIGHTING FIXTURE - LOWERCASE LETTER DENOTES SWITCHING (a = CENTER LAMP, b = OUTER LAMPS)</p> <p>⊠ WALL MOUNTED FIXTURE</p> <p>⊠ RECESSED DOWNLIGHT</p> <p>⊠ SURFACE LUMINAIRE</p> <p>⊠ POLE MOUNTED LIGHT (# OF HEADS INDICATED ON DRAWING)</p> <p>⊠ FLUORESCENT STRIP FIXTURE</p> <p>⊠ BOLLARD</p> <p>⊠ RECESSED DOWNLIGHT (WALL WASH)</p> <p>⊠ TRACK LIGHTING</p> <p>⊠ EMERGENCY LIGHTING UNIT</p> <p>⊠ EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS DENOTE DIRECTION</p> <p>⊠ EMERGENCY FIXTURE</p>	<p>⊠ THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO)</p> <p>⊠ JUNCTION BOX (SIZE AS REQUIRED UNO)</p> <p>⊠ SHEET NOTE DESIGNATION</p> <p>⊠ FIXTURE DESIGNATION: FI+TYPE (SEE FIXTURE SCH.)</p> <p>⊠ REVISION DELTA: NUMBER REPRESENTS REVISION</p> <p>⊠ FEEDER DESIGNATION</p> <p>⊠ EQUIPMENT CONNECTION</p>
<p>— CONDUIT/RACEWAY IN WALL OR ABOVE CEILING</p> <p>— CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR</p> <p>○ CONDUIT/RACEWAY UP</p> <p>● CONDUIT/RACEWAY DOWN</p> <p>— BREAK OR RUN CONTINUES</p> <p>— OH— OVERHEAD SERVICE</p> <p>— P — PRIMARY</p> <p>— S — SECONDARY</p> <p>— C — COMMUNICATIONS OR SIGNAL</p> <p>— T — TELEPHONE</p> <p>— TV — TELEVISION</p> <p>— * — LOW VOLTAGE AND/OR CONTROL WIRING</p> <p>— * — EMERGENCY CIRCUIT</p> <p>— CONDUIT/RACEWAY STUB OUT: MARK AND CAP (SITE)</p> <p>— CONDUIT/RACEWAY SLEEVE</p>	<p>⊠ THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO)</p> <p>⊠ JUNCTION BOX (SIZE AS REQUIRED UNO)</p> <p>⊠ SHEET NOTE DESIGNATION</p> <p>⊠ FIXTURE DESIGNATION: FI+TYPE (SEE FIXTURE SCH.)</p> <p>⊠ REVISION DELTA: NUMBER REPRESENTS REVISION</p> <p>⊠ FEEDER DESIGNATION</p> <p>⊠ EQUIPMENT CONNECTION</p>	<p>⊠ THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO)</p> <p>⊠ JUNCTION BOX (SIZE AS REQUIRED UNO)</p> <p>⊠ SHEET NOTE DESIGNATION</p> <p>⊠ FIXTURE DESIGNATION: FI+TYPE (SEE FIXTURE SCH.)</p> <p>⊠ REVISION DELTA: NUMBER REPRESENTS REVISION</p> <p>⊠ FEEDER DESIGNATION</p> <p>⊠ EQUIPMENT CONNECTION</p>	<p>⊠ THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO)</p> <p>⊠ JUNCTION BOX (SIZE AS REQUIRED UNO)</p> <p>⊠ SHEET NOTE DESIGNATION</p> <p>⊠ FIXTURE DESIGNATION: FI+TYPE (SEE FIXTURE SCH.)</p> <p>⊠ REVISION DELTA: NUMBER REPRESENTS REVISION</p> <p>⊠ FEEDER DESIGNATION</p> <p>⊠ EQUIPMENT CONNECTION</p>
<p>20 SINGLE POLE CIRCUIT BREAKER</p> <p>20/2 TWO POLE CIRCUIT BREAKER</p> <p>20/3 THREE POLE CIRCUIT BREAKER</p> <p>20A ARC FAULT CIRCUIT BREAKER</p> <p>20C CONTROLLABLE CIRCUIT BREAKER</p> <p>20G GFI CIRCUIT BREAKER</p>	<p>L = LIGHTING</p> <p>R = RECEPTACLES</p> <p>E = EQUIPMENT</p> <p>M = MOTOR</p> <p>M1 = LARGEST MOTOR</p> <p>K = KITCHEN EQUIP</p> <p>H = ELECTRIC HEAT</p>	<p>L = LIGHTING</p> <p>R = RECEPTACLES</p> <p>E = EQUIPMENT</p> <p>M = MOTOR</p> <p>M1 = LARGEST MOTOR</p> <p>K = KITCHEN EQUIP</p> <p>H = ELECTRIC HEAT</p>	<p>TICS = NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING CONDUCTOR (NOT SHOWN) ALWAYS REQUIRED.</p> <p>⊠ ISOLATED GROUNDING CONDUCTOR</p> <p>⊠ NEUTRAL CONDUCTOR</p> <p>⊠ PHASE CONDUCTOR(S)</p> <p>⊠ BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR</p> <p>⊠ HOMERUN TO PANELBOARD OR DEVICE</p> <p>⊠ HOMERUN CIRCUIT DESIGNATION</p> <p>⊠ GROUNDING CONDUCTOR</p> <p>⊠ NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS)</p> <p>⊠ PHASE CONDUCTOR(S)</p> <p>⊠ PANELBOARD DESIGNATION</p> <p>⊠ HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN)</p> <p>⊠ GROUNDING CONDUCTOR</p> <p>⊠ PHASE CONDUCTOR(S)</p> <p>⊠ PANELBOARD DESIGNATION</p>

NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS. HEIGHTS GIVEN ARE TO CENTER LINE OF DEVICE.

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PK Electrical, Inc.
Engineering · Design · Consulting
681 Sierra Rose Dr, Ste B | Reno, NV 89511 | 775.826.9010
5105 DTC Pkwy, Ste 420 | Greenwood Village, CO 80111 | 720.481.3290
pk-electrical.com © 2008-2015 PK Electrical, Inc. 16066

Consultant

H+K ARCHITECTS
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262
P 775+332+6640
F 775+332+6642
hkarchitects.com

**Stewart Indian School
Welcome Center**
State of Nevada Indian Commission
5366 Snyder Avenue, Building 2
Carson City, NV 89701

Electrical Legend &
Drawing Schedule

August 19, 2016
H+K Project No.: 1604B

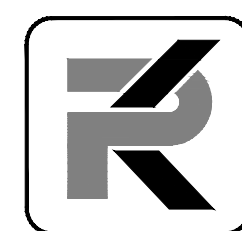
E001



TELECOM GENERAL NOTES			
ITEM	DESCRIPTION	ITEM	DESCRIPTION
17.1	STANDARDS AND CODES: ALL TELECOMMUNICATIONS (TELECOM) AND ELECTRONIC SAFETY AND SECURITY (ESS) WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) AND ANSI/TIA/EIA STANDARDS REFERENCED IN THE DIVISION 21 SPECIFICATIONS, SPECIFICATIONS AND THE DIVISION 1 REQUIREMENTS.	17.6	STRUCTURED CABLING: THE DIVISION 21 TELECOM CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL REMAINING WORK SHOWN ON THE TELECOM DRAWINGS OR DESCRIBED IN THE DIVISION 21 SPECIFICATIONS. THIS INCLUDES BUT IS NOT LIMITED TO HORIZONTAL VOICE AND DATA CABLING, TELECOM OUTLET FACEPLATES, TELECOM OUTLET JACKS, DATA PATCH PANELS, EQUIPMENT RACKS, EQUIPMENT CABINETS, RACK MOUNTED PDUS, RACK MOUNTED CABLE MANAGEMENT DEVICES, VELCRO CABLE TIES, D-RINGS, PATCH CORDS, STATION CORDS, CROSS CONNECT WIRE, LABELING, CABLE TESTING AND CERTIFICATION, ETC.
17.2	GENERAL REQUIREMENTS: INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, STORAGE COSTS, EXCAVATION, TRAINING, INSURANCE, TEMPORARY PROTECTION, PERMITS, INSPECTIONS, TAXES AND ALL NECESSARY AND RELATED ITEMS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL TELECOM AND ESS SYSTEM AS SHOWN ON THE CONTRACT DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. THE DIVISION 26 ELECTRICAL CONTRACTOR, THE DIVISION 21 TELECOM CONTRACTOR IS RESPONSIBLE FOR THE WORK SHOWN ON THE TELECOM DRAWINGS AND DESCRIBED IN THE DIVISION 21 SPECIFICATIONS. INFORMATION SHOWN ON THE TELECOM DRAWINGS IS DIAGRAMMATIC. FIELD VERIFY ALL DIMENSIONS, LOCATIONS, AND LAYOUT. REVIEW ALL ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL AND SPECIALTY SYSTEMS DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OR CONDITIONS SHOWN THEREON. DO NOT SCALE THE TELECOM PLANS FOR RACEWAY, OUTLET, RACK OR EQUIPMENT LOCATIONS.	17.7	CABLING AND TERMINATIONS: ALL PREMISE HORIZONTAL DATA CABLING, DATA PATCH CORDS AND DATA WORKSTATION CORDS SHALL BE CATEGORY 6 UNSHIELDED TWISTED PAIR. ALL DATA PATCH PANELS AND DATA OUTLET JACKS SHALL BE CATEGORY 6. ALL PREMISE HORIZONTAL VOICE CABLING, VOICE PATCH CORDS AND VOICE WORKSTATION CORDS SHALL BE CATEGORY 6 UNSHIELDED TWISTED PAIR. ALL VOICE PATCH PANELS AND VOICE OUTLET JACKS SHALL BE CATEGORY 6. HORIZONTAL CAT 6 VOICE AND DATA CABLING SHALL HAVE A PLENUM RATED JACKET (CMP). NO SPICES WILL BE PERMITTED IN ANY TELECOM CABLING UNLESS EXPLICITLY SHOWN ON THE DRAWINGS. THE MAXIMUM CABLE LENGTH BETWEEN THE WORK AREA OUTLET AND THE TERMINATION IN THE TELECOM ROOM SHALL BE 245 FEET. NOTIFY THE ENGINEER OF HORIZONTAL CABLES LONGER THAN 245 FEET PRIOR TO INSTALLATION. PROVIDE SLACK IN CABLES AT ENTRANCES AND EXITS OF CONDUIT SLEEVES AND AT TRANSITIONS FROM HORIZONTAL TO VERTICAL CABLE LADDERS AND CABLE TRAYS. PROVIDE A MINIMUM 10'-0" MAINTENANCE LOOP IN THE TELECOM ROOMS FOR ALL HORIZONTAL CABLING TO ALLOW MINOR RELOCATION OF THE RELAY RACKS. TELECOM CABLING SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL CABLES SHALL BE NEATLY BUNDLED AND DRESSED IN THE TELECOM ROOMS. LOOSELY BUNDLE HORIZONTAL CABLE WITH VELCRO TIE WRAPS AT 1'-0" CENTERS INSIDE THE TELECOM ROOMS. DO NOT EXCEED QTY (50) CABLES PER BUNDLE. LOOSELY BUNDLE CABLE IN THE WIRE BASKET TRAY WITH VELCRO TIE WRAPS SPACED AT 2'-0" O.C. DO NOT EXCEED (25) CABLES PER BUNDLE.
17.3	RACEWAY: THE DIVISION 26 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, SUPPORT AND SEISMIC BRACING OF ALL RACEWAY SHOWN ON THE TELECOM DRAWINGS AND DESCRIBED IN THE DIVISION 21 SPECIFICATIONS. THIS INCLUDES BUT IS NOT LIMITED TO ALL CONDUIT, VALUITS, OUTLET BOXES, PULL BOXES, PULL STRINGS, CONDUIT SLEEVES AND PLYWOOD BACKBOARDS. WHERE RACEWAY IS SHOWN ON THE TELECOM DRAWINGS BUT NOT SPECIFIED IN THE DIVISION 21 SPECIFICATIONS, THE RACEWAY WILL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DIVISION 26 SPECIFICATIONS. NO EXPOSED TELECOM CABLING SHALL BE PERMITTED, EXCEPT IN THE TELECOM ROOMS. ALL CABLING SHALL BE ROUTED IN CONDUIT OR CONCEALED ABOVE ACCESSIBLE CEILING SPACES. ALL TELECOM AND SECURITY CABLING SHALL BE PLENUM RATED. THE DIVISION 26 ELECTRICAL CONTRACTOR SHALL INSTALL WALL, FLOOR OR FURNITURE MOUNTED OUTLET BOXES AT ALL TELECOM OUTLETS AND WILL INSTALL A 1" EMT CONDUIT (UON) FROM THE OUTLET BOX TO AN ACCESSIBLE CEILING SPACE. THE DIVISION 21 CONTRACTOR SHALL INSTALL J-HOOKS SPACED AT 5'-0" O.C. FROM THIS POINT TO THE WIRE BASKET TRAY. WHERE NO ACCESSIBLE CEILING SPACE EXISTS, THE DIVISION 26 CONTRACTOR SHALL HOME RUN THE CONDUIT TO THE TELECOM ROOM. THE DIVISION 26 ELECTRICAL CONTRACTOR SHALL INSTALL CONDUIT FOR ROUTING OF HORIZONTAL TELECOM CABLING ROUTED IN INACCESSIBLE CEILING OR WALL SPACES. CONDUIT SHALL BE SIZED SO AS NOT TO EXCEED 40% FILL RATE. ALL RACEWAY SHALL BE RUN PERPENDICULAR TO BUILDING GRID LINES. TELECOM RACEWAY SHALL BE INSTALLED SO THAT THE FOLLOWING MINIMUM CLEAR DISTANCES ARE MAINTAINED FROM SOURCES OF ELECTRO-MAGNETIC INTERFERENCE (EMI), 6" CLEAR FROM POWER CABLES, 12" CLEAR FROM FLUORESCENT LIGHTING AND 36" CLEAR FROM TRANSFORMERS AND MOTORS. THE DIVISION 26 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL ACCESS DOORS REQUIRED TO PROVIDE REASONABLE ACCESS FOR THE INSTALLATION OF TELECOM AND SECURITY CABLING.	17.8	TESTING AND CERTIFICATION: ALL VOICE, DATA AND VIDEO CABLING SHALL BE TESTED AND CERTIFIED IN ACCORDANCE WITH THE DIVISION 21 SPECIFICATIONS. CERTIFIED TEST REPORTS SHALL BE SUBMITTED FOR APPROVAL AT THE COMPLETION OF THE PROJECT.
17.4	FIRESTOPPING: ALL PENETRATIONS THROUGH FIRE RATED OR ACOUSTICAL WALLS SHALL BE FIRE STOPPED. ALL FIRE STOPPING ASSEMBLIES SHALL BE UL LISTED AND SHALL MEET OR EXCEED THE RATING OF THE WALL OR FLOOR BEING PENETRATED. THE DIVISION 26 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF FIRESTOPPING BETWEEN ALL TELECOM RACEWAYS AND THE BUILDING STRUCTURE. THE DIVISION 21 TELECOM CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF FIRESTOPPING BETWEEN THE TELECOM CABLING AND THE TELECOM RACEWAY.	17.9	SUPERVISION: ALL WORK SHALL BE SUPERVISED ON A DAILY BASIS BY A BICSI CERTIFIED SUPERVISOR HAVING A MINIMUM OF THREE (3) YEARS EXPERIENCE IN THE INSTALLATION OF STRUCTURED CABLING AND TELECOMMUNICATION SYSTEMS.
17.5	GROUNDING AND BONDING: ALL TELECOM RACEWAYS, BUILDING ENTRANCE TERMINALS, BACKBONE CABLE SHIELDS, EQUIPMENT RACKS AND EQUIPMENT SHALL BE BONDED AND GROUNDED. PROVIDE ALL GROUNDING WORK RELATED TO THE RADIO ANTENNA TOWER AS SHOWN ON THE DRAWINGS. THE DIVISION 26 ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL GROUNDING WORK SHOWN ON THE TELECOM DRAWINGS OR DESCRIBED IN THE DIVISION 21 SPECIFICATIONS. THIS INCLUDES BUT IS NOT LIMITED TO INSTALLATION OF ALL COPPER GROUNDING BUS BARS, GROUNDING CONDUCTORS, CONDUIT, GROUNDING BUSHINGS, LUGS, ETC. THE DIVISION 21 CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ANY SPECIALTY GROUNDING BRACKETS TO FACILITATE ATTACHMENT OF GROUNDING CONDUCTORS TO THE TELECOM EQUIPMENT RACKS, EQUIPMENT CABINETS OR WIRING BLOCKS. THE DIVISION 21 CONTRACTOR IS RESPONSIBLE FOR LABELING ALL OF THE GROUNDING RELATED ITEMS SHOWN ON THE TELECOM DRAWINGS OR DESCRIBED IN THE DIVISION 21 SPECIFICATIONS.	17.10	COORDINATION DRAWINGS: THE DIV 21 ELECT CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS OF ALL MAIN J-HOOK RUNS PRIOR TO INSTALLATION OF THE WORK.
		17.11	RECORD DRAWINGS: PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE ONE SET OF RECORD TELECOM DRAWINGS ON REPRODUCIBLE MEDIUM INDICATING THE FOLLOWING ADDITIONAL INFORMATION: EXACT ROUTING OF BASKET TRAY AND ALL RACEWAY LARGER THAN 2", QTY AND LAYOUT OF ALL TELECOM OUTLETS, QUANTITY OF TELECOM DROPS AT EACH OUTLET, LOCATION OF ALL GROUNDING AND BONDING CONNECTIONS, CONTRACTORS NAME, ADDRESS AND PHONE NUMBER. RECORD NOTATIONS SHALL BE CLEARLY DRAWN WITH A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS.
		17.12	EXAMINATION OF SITE: BEFORE SUBMITTING A PROPOSAL, THE CONTRACTOR SHALL EXAMINE THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT THE WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL.
		17.13	GUARANTEE: THE CATEGORY 6 STRUCTURED CABLING SYSTEM INCLUDING HORIZONTAL CABLING, PATCH PANELS, PATCH CORDS AND TELECOM OUTLET JACKS SHALL CARRY A MINIMUM TWENTY (20) YEAR MANUFACTURER WARRANTY. THE BACKBONE FIBER OPTIC CABLING INCLUDING TERMINATIONS SHALL CARRY A MINIMUM TWENTY (20) YEAR MANUFACTURER'S WARRANTY. SEE THE DIVISION 21 SPECIFICATIONS FOR ADDITIONAL WARRANTY REQUIREMENTS. THE COMPLETE TELECOM SYSTEM AND ALL PORTIONS THEREOF, SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR THEREOF AT NO EXPENSE TO THE OWNER. SEE THE DIVISION 21 SPECS FOR ADDITIONAL WARRANTY AND/OR EXTENDED WARRANTY REQUIREMENTS.
		17.14	SUBSTANTIAL COMPLETION: THE FOLLOWING ARE PREREQUISITES FOR SUBSTANTIAL COMPLETION OF THE TELECOM SYSTEM: ALL WORK COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, PUNCH LIST ITEMS COMPLETED AND SIGNED OFF, CERTIFIED CABLE TEST REPORTS SUBMITTED AND APPROVED, AS-BUILT DRNGS AND TERMINATION SCHEDULES SUBMITTED AND APPROVED, MFG'S WARRANTY AND CONTRACTOR'S GUARANTEE SUBMITTED, EXTRA STOCK ITEMS TURNED OVER TO THE OWNER.

TELECOM LEGEND	
	DATA/VOICE OUTLET: 45 BOX WITH SINGLE GANG MUD RING UON, 18" AFF UON. INSTALL 1" CONDUIT TO ACCESSIBLE CEILING SPACE UON (SEE A/D/1002). SEE DRAWINGS FOR QTY OF PLENUM CAT 6 VOICE & DATA DROPS AT EACH OUTLET.
	DATA OUTLET FOR WIRELESS ACCESS POINT, SURFACE MOUNTED SIDE ENTRY BOX. SEE DRAWINGS FOR MOUNTING. PROVIDE (1) CAT 6 PLENUM DROP TO EACH OUTLET.
	QUANTITY OF CAT 6 VOICE AND DATA DROPS AT EACH TELECOM OUTLET. EXAMPLE 2V+2D = 2 VOICE + 2 DATA DROPS.
	FLUSH WALL MOUNTED DEVICES AT 18" AFF UON
	CONDUIT SIZE AS INDICATED ON DRAWINGS
	CONDUIT UNDERGROUND OR IN SLAB
	CONDUIT STUB OUT WITH BUSHING.
	HORIZONTAL OR VERTICAL SLEEVE WITH BUSHINGS.
	CONDUIT UP OR DOWN.
	J-HOOKS (WHERE SPECIFIC ROUTING REQUIRED)
	CONDUIT OR SLEEVE STUB UP.
	TELECOM EQUIP RACK W/VERTICAL CABLE MANAGERS.
	RACK, WIRING BLOCK OR EQUIPMENT GROUND.
	TELECOMMUNICATIONS BONDING BACKBONE CONDUCTOR.
	4" X 20" X 1/4" TELECOM GROUNDING BUSBAR (UON)
	4" X 20" X 1/4" TELECOM MAIN GROUNDING BUSBAR (UON)
	COPPER BACKBONE CABLING. PAIR COUNT AS INDICATED ON DRAWINGS.
	OUTSIDE PLANT UNDERGROUND TELECOM CONDUIT. SEE SITE DRAWINGS.
AFF	ABOVE FINISH FLOOR
AV	AUDIO / VISUAL
AWG	AMERICAN WIRE GAUGE
CATV	CABLE TV
COAX	COAXIAL CABLE
DEMARC	DEMARICATION POINT
DIA	DIAMETER
FBO	FURNISHED BY OTHERS
(E)	EXISTING
EA	EACH
EIA	ELECTRONICS INDUSTRIES ALLIANCE
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
FBO	FURNISHED BY OTHERS
FPD	FLAT PANEL DISPLAY
GND	GROUND
HC	HORIZONTAL CROSS-CONNECT
IC	INTERMEDIATE CROSS-CONNECT
ID	INSIDE DIAMETER
IDC	INSULATION DISPLACEMENT CONNECTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
LAN	LOCAL AREA NETWORK
LEC	LOCAL EXCHANGE CARRIER
MAN	METROPOLITAN AREA NETWORK
MC	MAIN CROSS-CONNECT
MDF	MAIN DISTRIBUTION FRAME
MM	MULTIMODE FIBER OPTIC CABLE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFE	OWNER FURNISHED EQUIPMENT
OSP	OUTSIDE PLANT
PVC	POLYVINYLCHLORIDE
SM	SINGLEMODE FIBER OPTIC CABLE
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TR	TELECOMMUNICATIONS ROOM
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
WG	WIRE GUARD
WP	WALL PHONE
WAP	WIRELESS ACCESS POINT


TELECOM LABELING	
	TELECOM OUTLET FACEPLATE LABEL: OUTLET NUMBER WITHIN ROOM (START W/1" IN EACH ROOM). WORK AREA ROOM NUMBER. EXAMPLE: RM 102, OUTLET 2 = "102-2" SEE DETAIL A/B/1002.
	TELECOM OUTLET JACK LABEL: PATCH PANEL JACK OR I/O BLOCK POSITION (1-48) PATCH PANEL OR TERMINATION BLOCK NUMBER (A-Z) TERMINATING TELECOM ROOM. EXAMPLE: IDF 150, PATCH PANEL B, PORT 48 = "150-B-48". SEE DETAIL A/B/1002.
	HORIZONTAL CABLE LABEL AT WORK AREA: PATCH PANEL JACK OR I/O BLOCK POSITION (1-48) PATCH PANEL OR TERMINATION BLOCK NUMBER (A-Z) TERMINATING TELECOM RM. EXAMPLE: IDF 150, PATCH PANEL B, PORT 48 = "150-B-48"
	HORIZONTAL CABLE LABEL AT TELECOM ROOM: JACK NUMBER WITHIN OUTLET (1, 2, 3, 4, 5, 6) OUTLET NUMBER IN ROOM (1, 2, 3, 4, ETC) WORK AREA ROOM NUMBER. EXAMPLE: ROOM 102, OUTLET 2, JACK 3 = "102-2-3"
	COPPER & FIBER PATCH PANEL LABEL: PATCH PANEL/WIRING BLOCK (ALPHA START WITH "A" AT TOP OF 1ST RACK). EXAMPLE IDF 150, RACK 1, 3RD PATCH PANEL FROM TOP = "C"
	COPPER PATCH PANEL JACK LABEL: JACK POSITION NUMBER IN OUTLET PLATE (1, 2, 3, 4, 5, 6) OUTLET NUMBER IN ROOM (1, 2, 3, 4, ETC) WORK AREA ROOM NUMBER. EXAMPLE: ROOM 102, OUTLET 2, JACK 3 = "102-2-3" SEE C/1002.
	EQUIPMENT RACK OR CABINET LABEL: RACK # IN TELECOM ROOM (RACK 1 IS IN THE 1ST ROW CLOSEST TO WALL). EXAMPLE MDF, ROW 1, RACK 1 = "RACK 1"
VERIFY EXACT LABELING REQUIREMENTS WITH BLM PRIOR TO LABELING. SEE SPECIFICATION SECTION 27 08 00 FOR ADDITIONAL TELECOM LABELING REQUIREMENTS.	



LIGHTING FIXTURE SCHEDULE			PK ELECTRICAL, INC. @ 2007
LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.			
SUBSTITUTION DEFINITIONS			
<input checked="" type="radio"/> OR EQUAL = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS WILL BE ALLOWED. ENGINEER'S PRE-BID APPROVAL IS NOT REQUIRED. PROPOSED EQUAL FIXTURES ARE SUBJECT TO REVIEW DURING THE STANDARD SUBMITTAL PROCESS.			
<input type="radio"/> NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED.			
<input type="radio"/> SUBJECT TO REVIEW = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS MAY BE ALLOWED ONLY WITH ENGINEER'S APPROVAL. ALL SUBSTITUTIONS MUST BE SUBMITTED AS REQUIRED BY SPECIFICATIONS AND ACCOMPANIED WITH POINT BY POINT LIGHTING CALCULATIONS. DETERMINATION OF EQUAL IS ENGINEER'S SOLE DISCRETION.			
TYPE	SYMBOL	DESCRIPTION AND MANUFACTURER	
	(L1)	4" SQUARE LED DOWNLIGHT PRODUCING 1000 LUMENS, MATTE DIFFUSE CLEAR TRIM, ELECTRONIC 0-10V DIMMING DRIVER AND CEILING THICKNESS ADAPTER.	(3)
12.2		LAMP: LED/4000K VOLTAGE: 120 MANUFACTURER: GOTHAM EVO-SQ-40/10-4AR-LD-120-EZI-CT4A-8-YK SUBSTITUTIONS: <input type="radio"/> OR EQUAL <input checked="" type="radio"/> SUBJECT TO REVIEW <input type="radio"/> NO EQUAL	
	(L2)	4" SQUARE LED DOWNLIGHT PRODUCING 750 LUMENS, MATTE DIFFUSE CLEAR TRIM, ELECTRONIC 0-10V DIMMING DRIVER AND CEILING THICKNESS ADAPTER.	(3)
10.3		LAMP: LED/4000K VOLTAGE: 120 MANUFACTURER: GOTHAM EVO-SQ-40/07-4AR-LD-120-EZI-CT4A-8-YK SUBSTITUTIONS: <input type="radio"/> OR EQUAL <input checked="" type="radio"/> SUBJECT TO REVIEW <input type="radio"/> NO EQUAL	
	(L3X)	LED WALL MOUNT REFLECTOR PRODUCING 671 LUMENS, GASKETED CAST ALUMINUM HOUSING, EXTRUDED RADIUS ARM, OPAL GLASS LENS, IP44 RATED, ELECTRONIC DRIVER AND REMOTE EMERGENCY INVERTER/BATTERY RATED 20 WATTS MAXIMUM.	(1)(2)
10.5		LAMP: LED/4000K VOLTAGE: 120 MANUFACTURER: BEGA 66411-K4-ERZ SUBSTITUTIONS: <input type="radio"/> OR EQUAL <input checked="" type="radio"/> SUBJECT TO REVIEW <input type="radio"/> NO EQUAL	
LIGHTING SYSTEM FOOTCANDLE LEVELS ARE BASED ON THE UTILIZATION OF STANDARD REFLECTANCES OF 80-90-20 (CEILING-WALL-FLOOR) PER I.E.S. (ILLUMINATED ENGINEERING SOCIETY). THE ROOM SURFACES ARE USED AS AN INTEGRAL COMPONENT OF THE LIGHTING SYSTEMS. THE REFLECTANCE OF THE SURFACE PAINT COLOR, MATERIAL, AND OTHER ROOM SURFACES, DIRECTLY AFFECTS THE DELIVERY OF LIGHT TO THE WORK PLANE. A SIGNIFICANT DROP IN OVERALL LIGHTING LEVELS WILL OCCUR IF REFLECTANCES ARE LOWERED. THE ARCHITECT/OWNER SHALL NOTIFY THE ENGINEER IMMEDIATELY IF FINISHES DO NOT FALL IN LINE WITH THE REFLECTANCES MENTIONED ABOVE.			

FIXTURE SCHEDULE NOTES

- REMOTE TEST SWITCH/CHARGE LIGHT SHALL BE INSTALLED SEPARATE FROM FIXTURE AND BE ACCESSIBLE FROM INTERIOR OF BUILDING.
- FURNISH AND INSTALL PHILIPS BODINE #ELI-S-520 SINE WAVE EMERGENCY BACKUP INVERTER, OR EQUAL UPON ENGINEER'S APPROVAL.
- PROVIDE 16 RATED COVER TO PROTECT FIXTURE FROM INSULATION CONTACT.


COMcheck Software Version 4.0.3.0
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: Stewart Indian School Welcome Center
 Project Type: New Construction

Construction Site: Stewart Indian Colony, Carson City, NV 89701
 Owner/Agent: State of Nevada Indian Commission, 5366 Snyder Avenue, Building 2, Carson City, NV 89701, (775) 687-8333
 Designer/Contractor: Jason Aviles, P.E., PK Electrical, Inc., 681 Sierra Rose Drive, Suite B, Reno, NV 89511, (775) 826-9010, javiles@pk-electrical.com

Additional Efficiency Package

Unspecified

Allowed Interior Lighting Power

A	B	C	D	E
Area Category	Floor Area (ft2)	Allowed Watts / ft2	Allowed Watts (B X C)	Allowed Watts (B X C)
1-Interior (Convention Center/Audience/seating area)	225	0.90	202	202
		Total Allowed Watts = 203		

Proposed Interior Lighting Power

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
1-Interior (Convention Center/Audience/seating area)				
LED 1: L1: LED Recessed Downlight: LED Other Fixture Unit 13W	1	4	13	52
LED 1 copy 1: L2: LED Recessed Downlight: LED Other Fixture Unit 13W	1	4	10	40
		Total Proposed Watts = 92		


Interior Lighting PASSES: Design 55% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.3.0 and to comply with the mandatory requirements listed in the Inspection Checklist.

Joseph E. Ganser, PE
 Name - Title _____ Signature _____ Date _____

Project Title: Stewart Indian School Welcome Center Report date: 08/16/16
 Data filename: K:\2016\16066 - Stewart Indian School Welcome Center (Building #2) Rehabilitation\02_Design\01_Calculations\01_Lighting\02_Energy Compliance Certs\IECC Calculations - 7-19-2016.cck Page 1 of 7


COMcheck Software Version 4.0.3.0
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: Stewart Indian School Welcome Center
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Neighborhood business district)

Construction Site: Stewart Indian Colony, Carson City, NV 89701
 Owner/Agent: State of Nevada Indian Commission, 5366 Snyder Avenue, Building 2, Carson City, NV 89701, (775) 687-8333
 Designer/Contractor: Jason Aviles, P.E., PK Electrical, Inc., 681 Sierra Rose Drive, Suite B, Reno, NV 89511, (775) 826-9010, javiles@pk-electrical.com

Allowed Exterior Lighting Power

A	B	C	D	E
Area/Surface Category	Quantity	Allowed Watts / Unit	Tradable Wattage	Allowed Watts (B X C)
South Walkway (Walkway >= 10 feet wide)	360 ft2	0.14	Yes	50
		Total Tradable Watts (a) = 50		
		Total Allowed Watts = 50		
		Total Allowed Supplemental Watts (b) = 600		

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
South Walkway (Walkway >= 10 feet wide 360 ft2) Tradable Wattage				
LED 1: L3X: LED Wall Sconce: LED Other Fixture Unit 13W	1	1	11	11
		Total Tradable Proposed Watts = 11		

Exterior Lighting PASSES: Design 98% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.3.0 and to comply with the mandatory requirements listed in the Inspection Checklist.

Joseph E. Ganser, PE
 Name - Title _____ Signature _____ Date _____

Project Title: Stewart Indian School Welcome Center Report date: 08/16/16
 Data filename: K:\2016\16066 - Stewart Indian School Welcome Center (Building #2) Rehabilitation\02_Design\01_Calculations\01_Lighting\02_Energy Compliance Certs\IECC Calculations - 7-19-2016.cck Page 2 of 7



Date	Revision



H+K ARCHITECTS
 5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262
 P 775+332+6640
 F 775+332+6642
 hkarchitects.com

**Stewart Indian School
 Welcome Center**
 State of Nevada Indian Commission
 5366 Snyder Avenue, Building 2
 Carson City, NV 89701

Fixture Schedule &
 Lighting Compliance
 Calculations
 August 19, 2016
 H+K Project No.: 1604B
E003



17-Aug-16		PANEL: SE2			LOCATION: NO. EQUIPMENT PAD					
TYPE/DESCRIPTION	LOAD	BKR	CIR	A	B	CIR	BKR	LOAD	DESCRIPTION	TYPE
L LIGHTING, CLTS CONTROL	500	20	1	1040		2	20	540	RECEPTACLES	R
SPARE		20	3		540	4	20	540	RECEPTACLES	R
SPARE		20	5	0		6	20		SPARE	
SPARE		20	7		180	8	20	180	TV RECEIPT	R
SPARE		20	9	0		10	20		SPARE	
SPARE			11		180	12	20	180	MAINT. RECEIPT	R
SPACE			13	0		14			SPACE	
SPACE			15	0		16			SPACE	
SPACE			17	0		18			SPACE	
SPACE			19	0		20			SPACE	
E AC-1	120	15/2	21	120		22			SPACE	
E X	120	X	23		120	24			SPACE	

	1160	1020	
COPPER BUS SIZE:	100		STANDARD
VOLTAGE:	240		SURFACE
PHASE:	1		NEMA 1
WIRE:	3		# OF 1-POLE CIRCUITS
LUGS:	MCB-60		CONNECTED KVA:
BREAKER AIC RATING:	10K		CONNECTED AMPS:
NEUTRAL:	100%		NET KVA:
FEEDER OCPD SIZE:	60		NET AMPS:

NOTES:
 NEW PANEL (INTEGRAL TO SERVICE PEDESTAL)
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LOAD CALCULATION: (E) BLDG 1 'SE' - 400A							
LOAD DESCRIPTION	LIGHTING	RECEPTS.	EQUIP.	MOTOR	KITCHEN	HEAT	TOTAL
(E) BA	1,960	11,480	3,630	2,050		3,254	22,374
(E) BB	2,354	20,040	3,900				26,294
(E) 2A	453	4,100	8,048				12,601
(E) CU-1A			14,520				14,520
(E) CU-1B			9,114				9,114
SE2	500	1,440	240				2,180
Total Connected Load:							87,083
Largest Motor:							
NEC Demand Factor	100%	100%, 1st 10KW 50% for rest	100%	100% + 25% of Largest Load	65%	100%	
NEC Code Reference	NEC 220.42	NEC 220.44		NEC 430.24	NEC 220.56	NEC 220.51	
Total Demand Load:							73,553
NEC Load:							at 208/120V 204.2 Amps

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GENERAL NOTES - NEW WORK

- (E) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- PANELBOARD AND BREAKER INTERRUPTING CAPACITIES (AIC) SHALL BE FULLY RATED AS AN ASSEMBLY. SERIES RATING OF BREAKER DEVICES AND EQUIPMENT IS NOT PERMITTED.
- ALL CONDUCTOR SIZES ARE BASED ON COPPER. ALUMINUM IS NOT PERMITTED.
- DO NOT SPLICE FEEDER CONDUCTORS UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER.

SHEET NOTES - NEW WORK

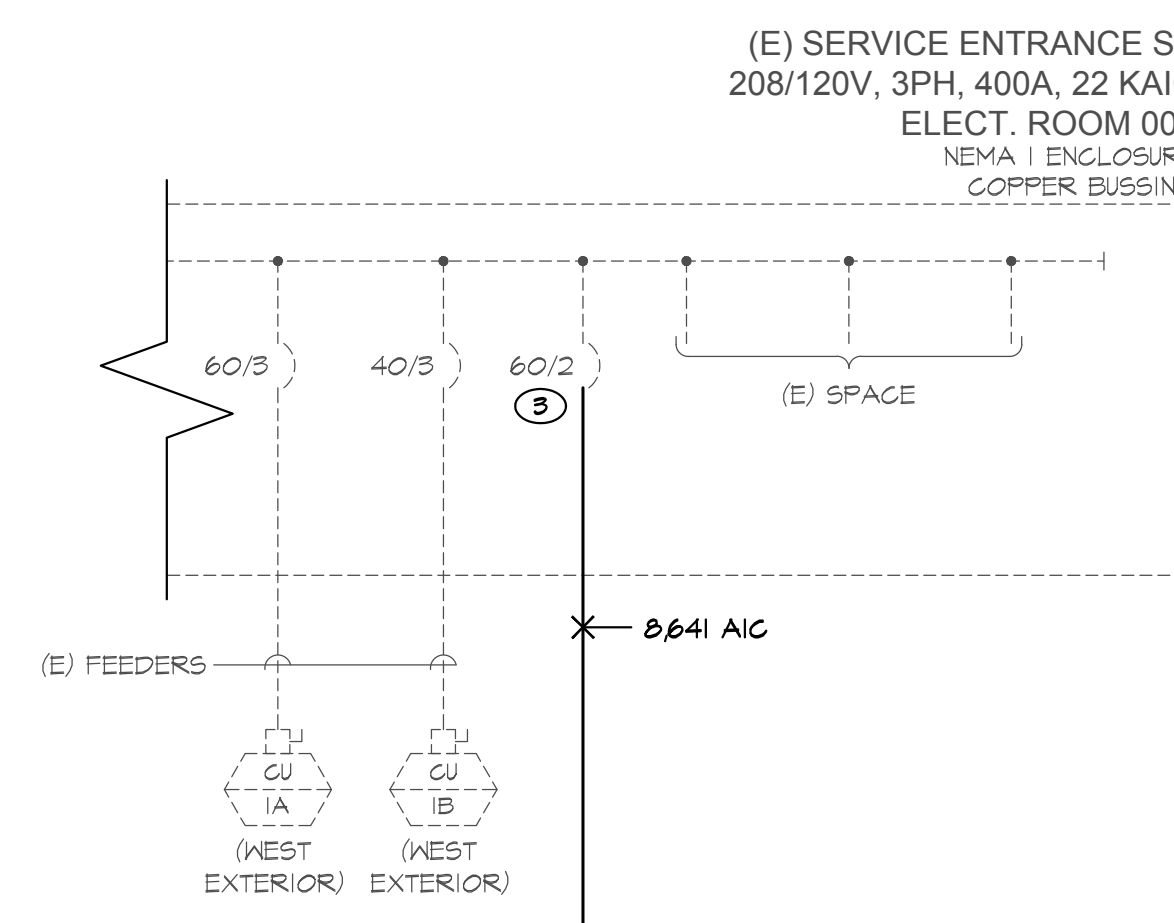
- PROVIDE (2) 3/4" EMPTY CONDUITS FROM PANEL TO ACCESSIBLE CEILING SPACE WITHIN BUILDING FOR FUTURE.
- CONDUCTOR SIZE INCREASED FOR VOLTAGE DROP.
- CONNECT TO EXISTING SPARE CIRCUIT BREAKER.
- REFER TO PANEL SCHEDULE FOR CIRCUIT AND CIRCUIT BREAKER REQUIREMENTS.
- PROVIDE MILBANK PEDESTAL #CF3A-0-1-0-1-9-BSP OR EQUAL UPON ENGINEERS APPROVAL WITH INTEGRAL MAIN CIRCUIT BREAKER TIMELOCK, CONTACTOR AND PHOTOCELL.

GENERAL NOTES - DEMOLITION

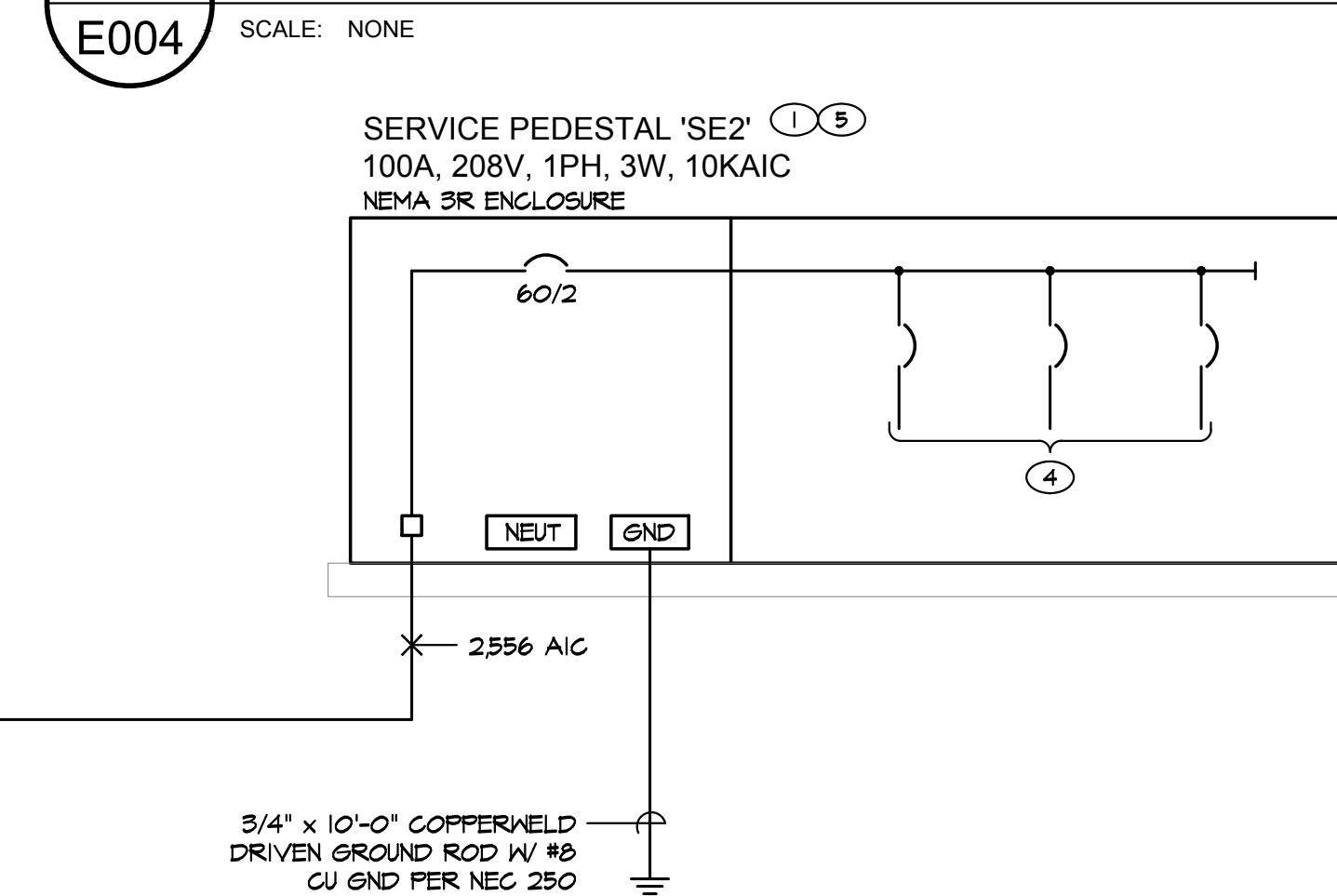
- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR SOLID LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.

SHEET NOTES - DEMOLITION

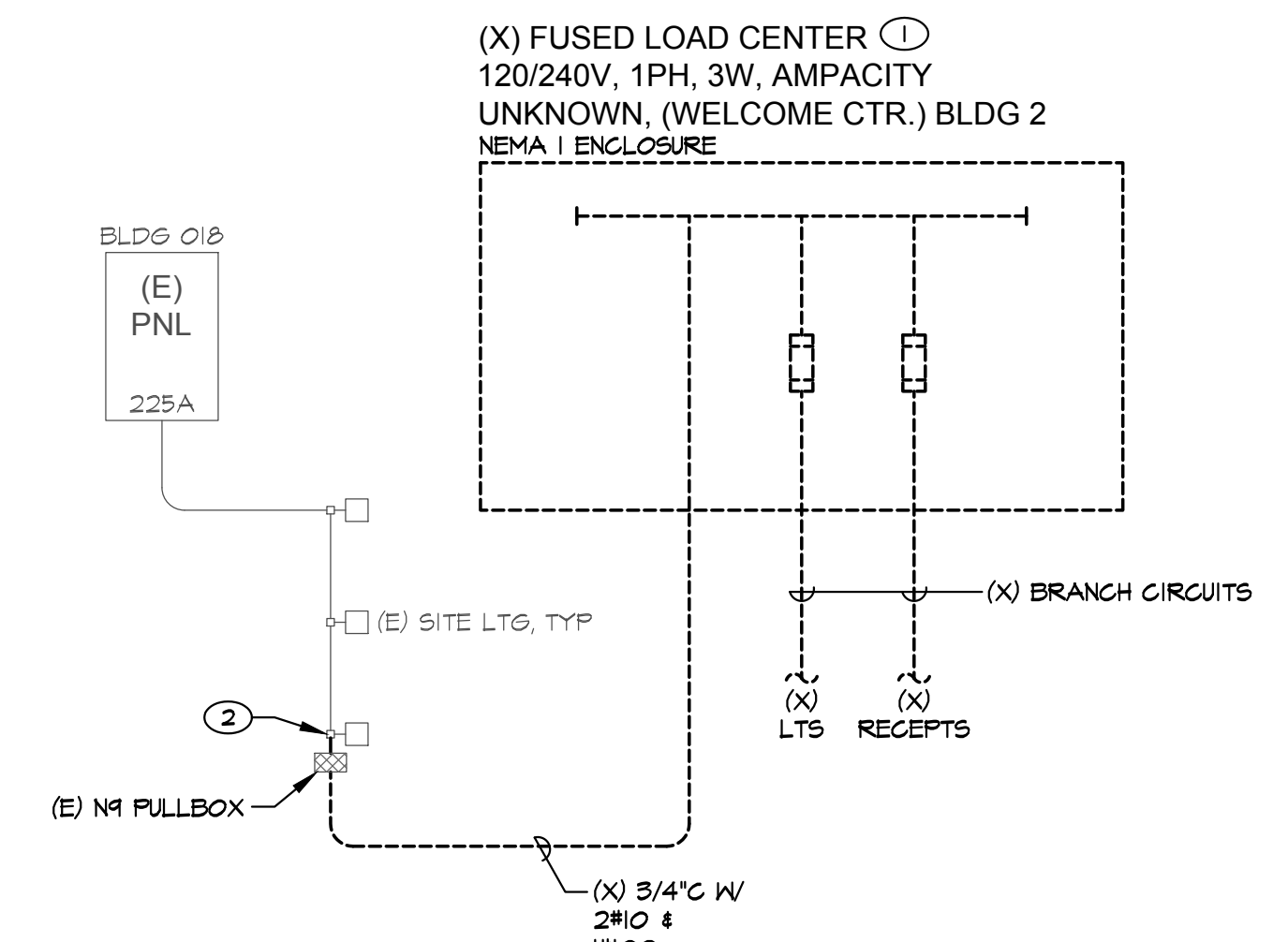
- EXISTING LOAD CENTER SHALL BE DISCONNECTED & REMOVED. REMOVE ASSOCIATED EXISTING FEEDER CONDUIT AND WIRE BACK TO SOURCE.
- DISCONNECT FEEDER FROM EXISTING TO REMAIN SITE LIGHTING CIRCUIT.



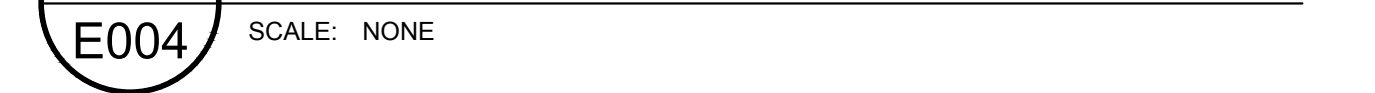
C BUILDING 1 PARTIAL ONELINE DIAGRAM



B BUILDING 2 PARTIAL ONELINE DIAGRAM



A DEMOLITION ONELINE DIAGRAM



FEEDER SCHEDULE (600V, 1Ø, 3W)				
FEEDER	AMPERE	WIRE (CU)	BOND (CU)	CONDUIT
15Ø	15	(Ø) 12	12	3/4"
20Ø	20	(Ø) 12	12	3/4"
30Ø	30	(Ø) 10	10	3/4"
40Ø	40	(Ø) Ø	10	3/4"
50Ø	50	(Ø) 6	10	1"
60Ø	60	(Ø) 4	10	1"
70Ø	70	(Ø) 4	Ø	1 1/4"
80Ø	80	(Ø) 3	Ø	1 1/4"
100Ø	100	(Ø) 2	Ø	1 1/4"
125Ø	125	(Ø) 1Ø	Ø	1 1/2"



Date	Revision

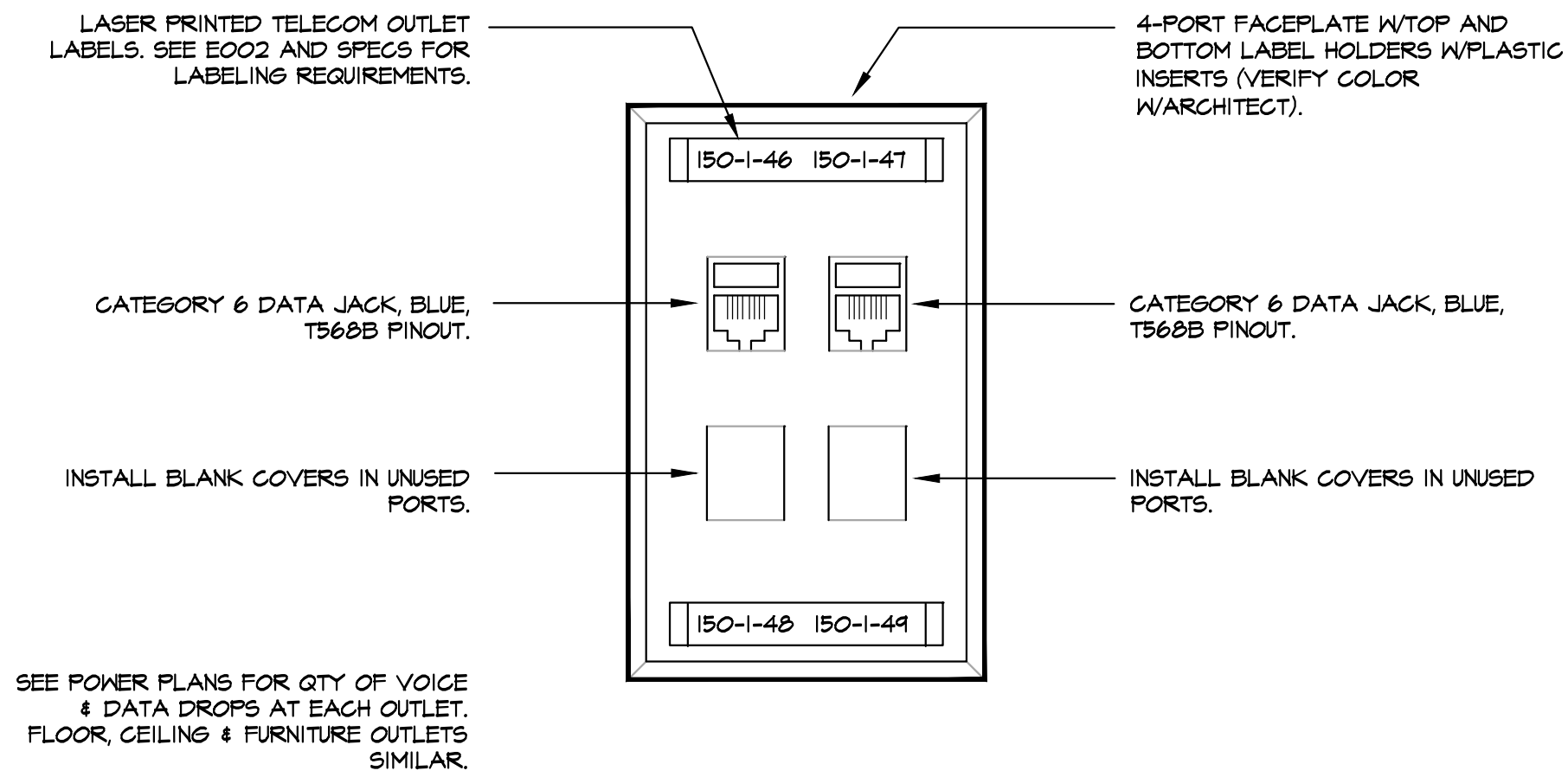
PK Electrical, Inc.
 Engineering · Design · Consulting
 681 Sierra Rose Dr, Ste B | Reno, NV 89511 | 775.826.9010
 5105 DTC Pkwy, Ste 420 | Greenwood Village, CO 80111 | 720.481.3290
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H+K ARCHITECTS
 5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262
 P 775+332+6640
 F 775+332+6642
 hkarchitects.com

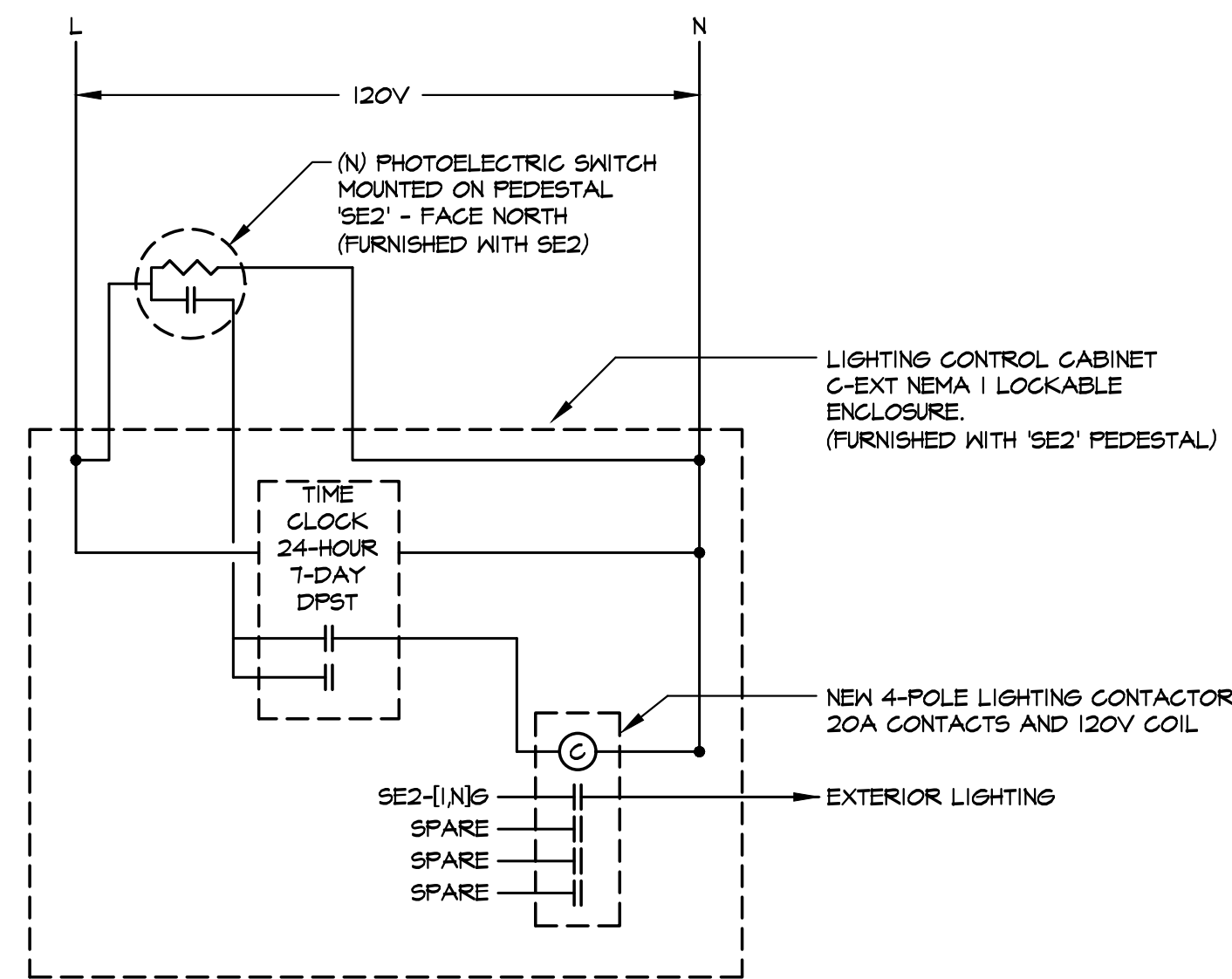
**Stewart Indian School
 Welcome Center**
 State of Nevada Indian Commission
 5366 Snyder Avenue, Building 2
 Carson City, NV 89701

Panel Schedules, Oneline
 Diagrams & Load
 Calculations
 August 19, 2016
 H+K Project No.: 1604B
E004

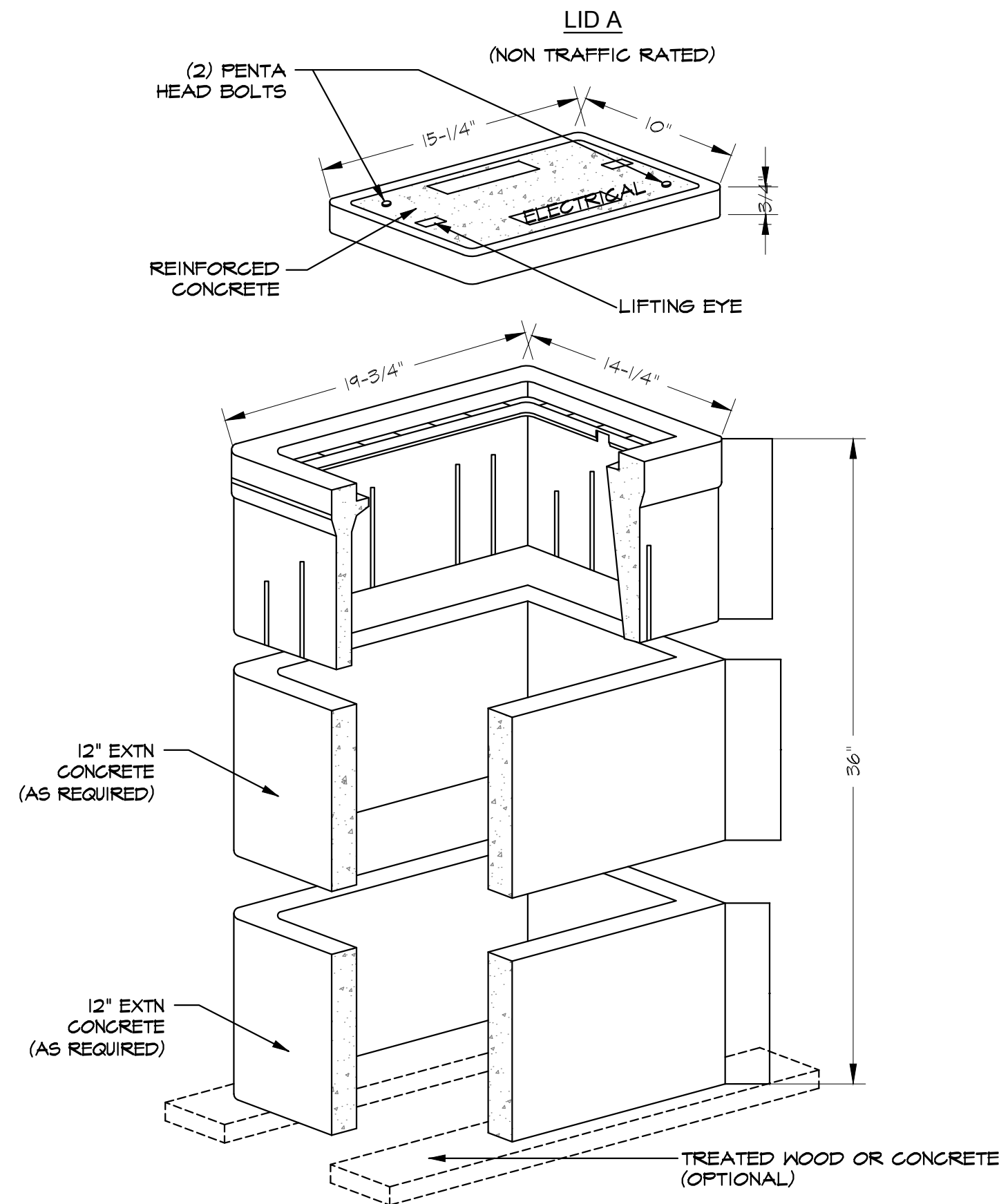




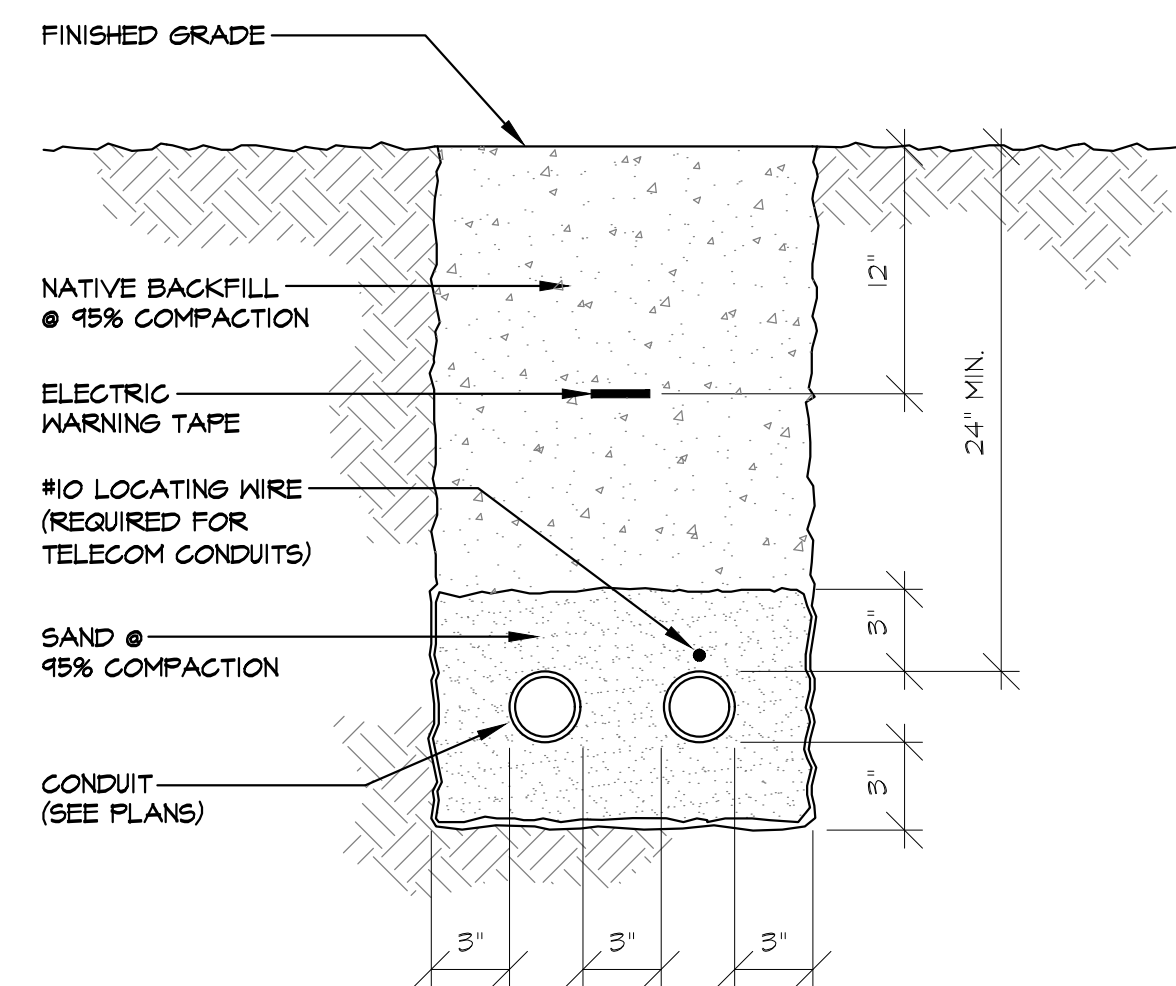
F TELECOM OUTLET
E005 SCALE: NONE



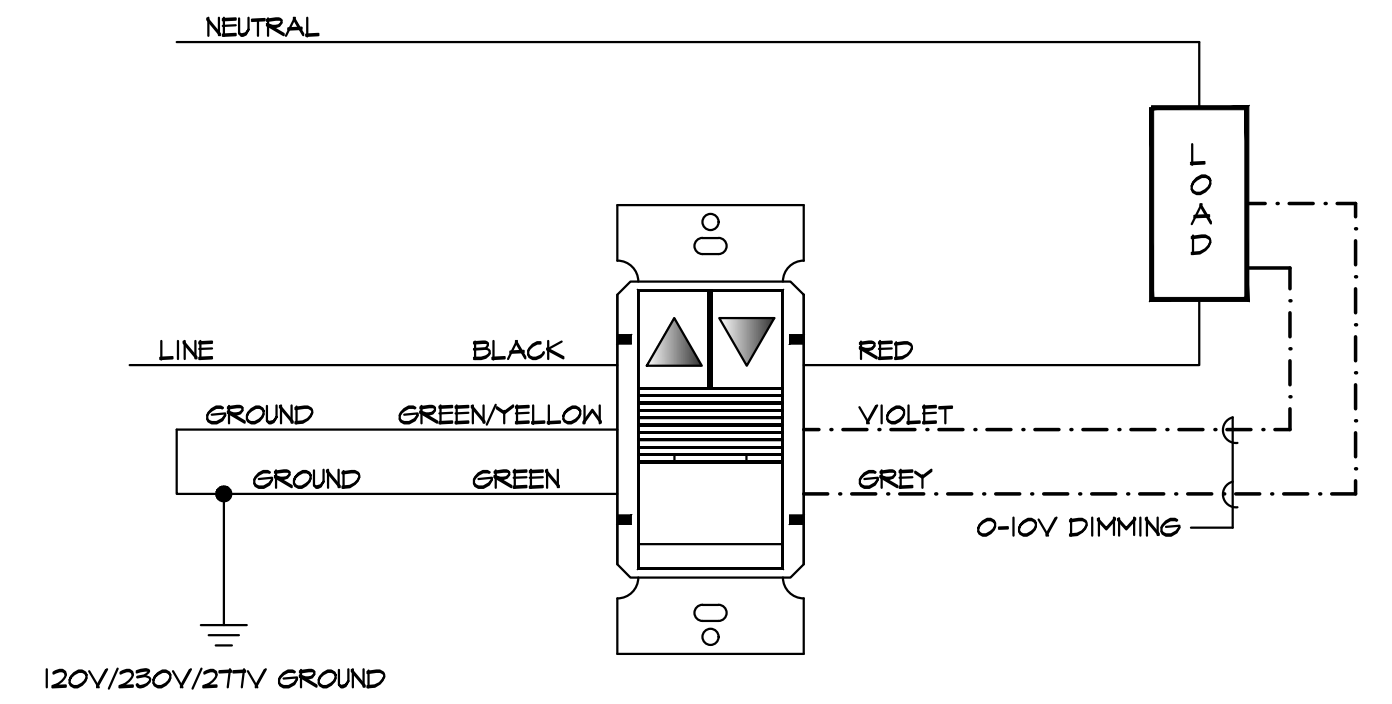
E LIGHTING CONTACTOR C-EXT
E005 SCALE: NONE



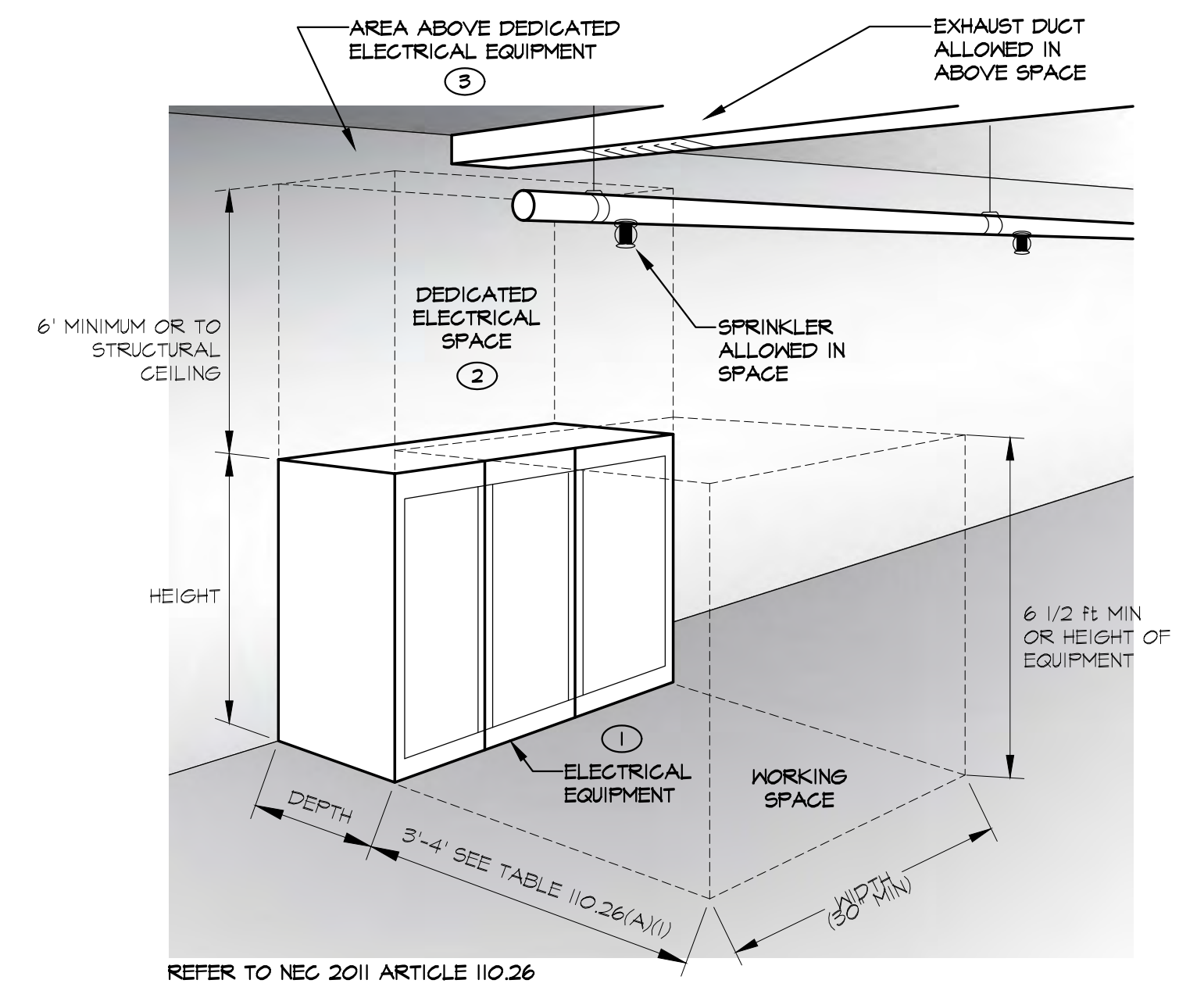
D N-9 BOX CONCRETE
E005 SCALE: NONE



C TYPICAL 2 CONDUIT TRENCH DETAIL
E005 SCALE: NONE



B SINGLE LEVEL DUAL TECH DIMMING MOTION SENSOR WALL SWITCH
E005 SCALE: NONE



A NEC-ARTICLE 110.26 WORKING SPACE & DEDICATED ELECTRICAL SPACE REQUIREMENTS
E005 SCALE: NONE

- DETAIL NOTES**
- ELECTRICAL EQUIPMENT INCLUDES SWITCHGEAR, SWITCHBOARDS, DISTRIBUTION BOARDS, PANEL BOARDS, MOTOR CONTROL CENTER OR SIMILAR EQUIPMENT.
 - NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.
 - THE AREA ABOVE THE DEDICATED SPACE REQUIRED BY 110.26(E)(1)(g) SHALL BE PERMITTED TO CONTAIN FOREIGN SYSTEMS, PROVIDED PROTECTION IS INSTALLED TO AVOID DAMAGE TO THE ELECTRICAL EQUIPMENT FROM CONDENSATION, LEAKS, OR BREAKS IN SUCH FOREIGN SYSTEM.

18086-005.dwg August 17, 2016 5:00 PM



Date	Revision

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681 Sierra Rose Dr, Ste B | Reno, NV 89511 | 775.826.9010
5105 DTC Pkwy, Ste 420 | Greenwood Village, CO 80111 | 720.481.3290
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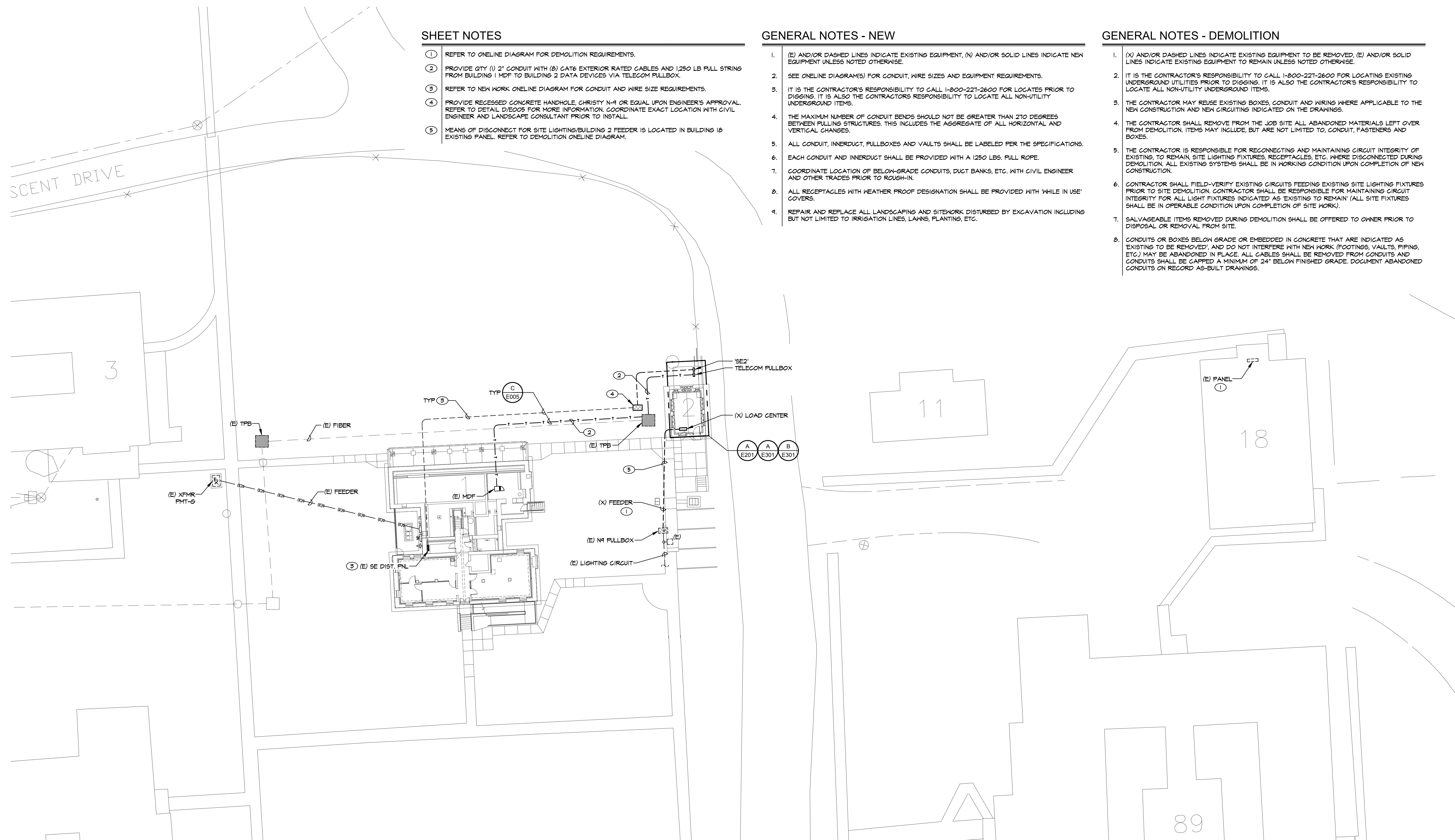
Consultant

H+K ARCHITECTS
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262
P 775+332+6640
F 775+332+6642
hkarchitects.com

Stewart Indian School
Welcome Center
State of Nevada Indian Commission
5366 Snyder Avenue, Building 2
Carson City, NV 89701

Details
August 19, 2016
H+K Project No.: 1604B
E005





SHEET NOTES

- 1 REFER TO ONLINE DIAGRAM FOR DEMOLITION REQUIREMENTS.
- 2 PROVIDE QTY (1) 2" CONDUIT WITH (8) CAT6 EXTERIOR RATED CABLES AND 1250 LB FULL STRING FROM BUILDING 1 MDF TO BUILDING 2 DATA DEVICES VIA TELECOM FULLBOX.
- 3 REFER TO NEW WORK ONLINE DIAGRAM FOR CONDUIT AND WIRE SIZE REQUIREMENTS.
- 4 PROVIDE RECESSED CONCRETE HANDHOLE, CHRISTY N-4 OR EQUAL UPON ENGINEER'S APPROVAL. REFER TO DETAIL D/E005 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH CIVIL ENGINEER AND LANDSCAPE CONSULTANT PRIOR TO INSTALL.
- 5 MEANS OF DISCONNECT FOR SITE LIGHTING/BUILDING 2 FEEDER IS LOCATED IN BUILDING 18 EXISTING PANEL. REFER TO DEMOLITION ONLINE DIAGRAM.

GENERAL NOTES - NEW

1. (E) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. SEE ONLINE DIAGRAM(S) FOR CONDUIT, WIRE SIZES AND EQUIPMENT REQUIREMENTS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL 1-800-221-2600 FOR LOCATES PRIOR TO DIGGING, IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
4. THE MAXIMUM NUMBER OF CONDUIT BENDS SHOULD NOT BE GREATER THAN 270 DEGREES BETWEEN PULLING STRUCTURES. THIS INCLUDES THE AGGREGATE OF ALL HORIZONTAL AND VERTICAL CHANGES.
5. ALL CONDUIT, INNERDUCT, FULLBOXES AND VAULTS SHALL BE LABELED PER THE SPECIFICATIONS.
6. EACH CONDUIT AND INNERDUCT SHALL BE PROVIDED WITH A 1250 LBS. FULL ROPE.
7. COORDINATE LOCATION OF BELOW-GRADE CONDUITS, DUCT BANKS, ETC. WITH CIVIL ENGINEER AND OTHER TRADES PRIOR TO ROUGH-IN.
8. ALL RECEPTACLES WITH WEATHER PROOF DESIGNATION SHALL BE PROVIDED WITH 'WHILE IN USE' COVERS.
9. REPAIR AND REPLACE ALL LANDSCAPING AND SITEWORK DISTURBED BY EXCAVATION INCLUDING BUT NOT LIMITED TO IRRIGATION LINES, LAWNS, PLANTING, ETC.

GENERAL NOTES - DEMOLITION

1. (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR SOLID LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL 1-800-221-2600 FOR LOCATING EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING, IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
3. THE CONTRACTOR MAY REUSE EXISTING BOXES, CONDUIT AND WIRING WHERE APPLICABLE TO THE NEW CONSTRUCTION AND NEW CIRCUITING INDICATED ON THE DRAWINGS.
4. THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL ABANDONED MATERIALS LEFT OVER FROM DEMOLITION. ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES.
5. THE CONTRACTOR IS RESPONSIBLE FOR RECONNECTING AND MAINTAINING CIRCUIT INTEGRITY OF EXISTING, TO REMAIN, SITE LIGHTING FIXTURES, RECEPTACLES, ETC. WHERE DISCONNECTED DURING DEMOLITION. ALL EXISTING SYSTEMS SHALL BE IN WORKING CONDITION UPON COMPLETION OF NEW CONSTRUCTION.
6. CONTRACTOR SHALL FIELD-VERIFY EXISTING CIRCUITS FEEDING EXISTING SITE LIGHTING FIXTURES PRIOR TO SITE DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CIRCUIT INTEGRITY FOR ALL LIGHT FIXTURES INDICATED AS 'EXISTING TO REMAIN' (ALL SITE FIXTURES SHALL BE IN OPERABLE CONDITION UPON COMPLETION OF SITE WORK).
7. SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
8. CONDUITS OR BOXES BELOW GRADE OR EMBEDDED IN CONCRETE THAT ARE INDICATED AS 'EXISTING TO BE REMOVED', AND DO NOT INTERFERE WITH NEW WORK (FOOTINGS, VAULTS, PIPING, ETC.) MAY BE ABANDONED IN PLACE. ALL CABLES SHALL BE REMOVED FROM CONDUITS AND CONDUITS SHALL BE CAPPED A MINIMUM OF 24" BELOW FINISHED GRADE. DOCUMENT ABANDONED CONDUITS ON RECORD AS-BUILT DRAWINGS.

A ELECTRICAL SITE PLAN
 E101 SCALE: 1" = 20'-0"

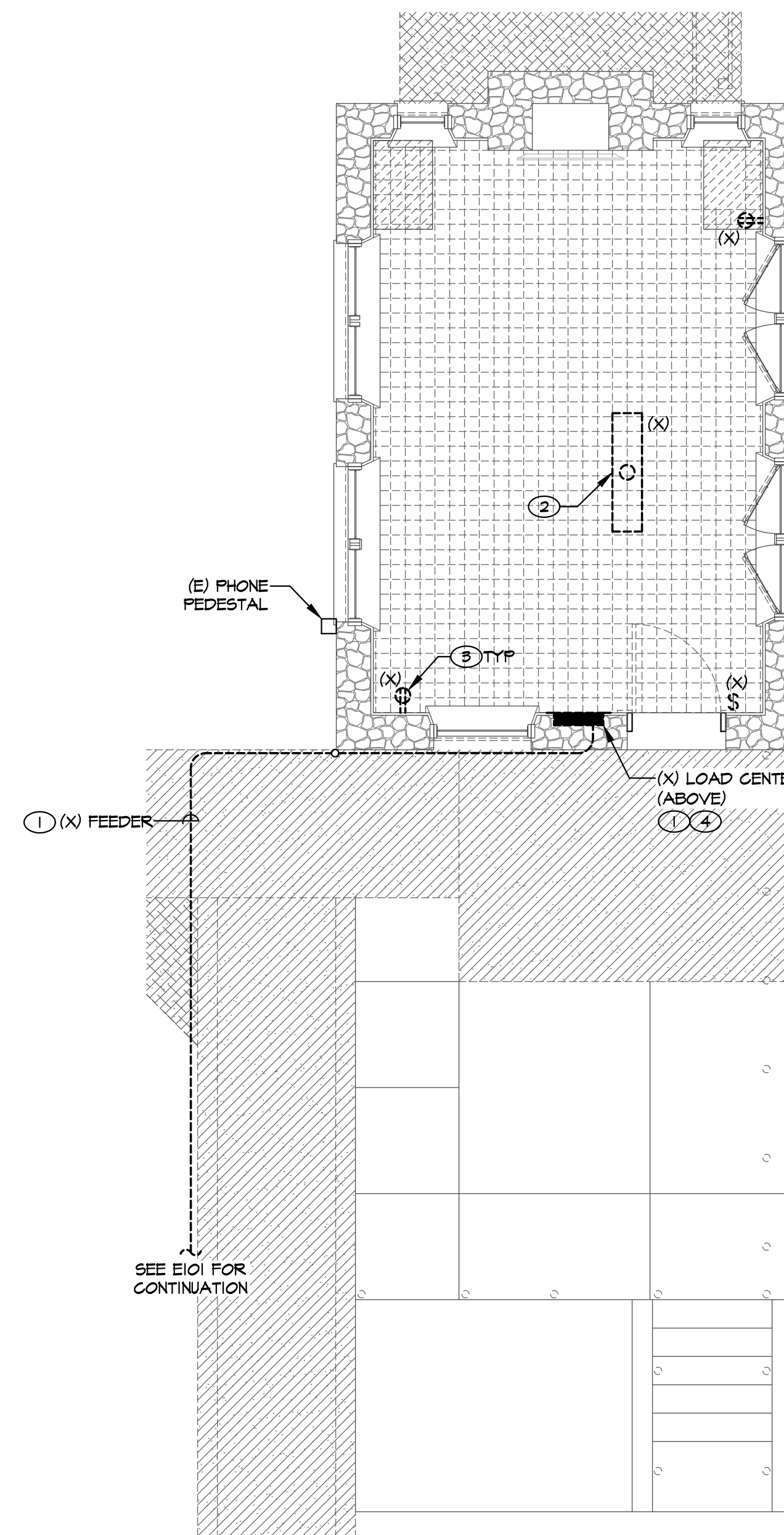
<p>16066-01.dwg August 17, 2016 5:00 PM</p> <p>Professional Seal</p> <p>DATE: 08/10/17 BY: JEG CHECKED: [Signature] 8/17/16</p>	<p>Date Revision</p>	<p>Consultant</p> <p>H+K ARCHITECTS 5485 Reno Corporate Drive, Suite 100 Reno, Nevada 89511-2262 P 775+332+6640 F 775+332+6642 hkarchitects.com</p>	<p>PK Electrical, Inc. Engineering · Design · Consulting 681 Sierra Rose Dr, Ste B Reno, NV 89511 775.826.9010 5105 DTC Pkwy, Ste 420 Greenwood Village, CO 80111 720.481.3290 pk-electrical.com © 2008-2015 PK Electrical, Inc. 16066</p>	<p>Stewart Indian School Welcome Center State of Nevada Indian Commission 5366 Snyder Avenue, Building 2 Carson City, NV 89701</p>	<p>Electrical Site Plan</p> <p>August 19, 2016 H+K Project No.: 1604B</p> <p>E101</p>
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GENERAL NOTES

1. THIS DRAWING REPRESENTS THE EXISTING LIGHTING, POWER AND COMMUNICATIONS SYSTEMS WITHIN THE EXISTING BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING, RELOCATING AND REPAIRING ALL EQUIPMENT AS INDICATED ON THE DRAWINGS, INCLUDING EQUIPMENT THAT LIES WITHIN WALLS AND CEILINGS TO BE DEMOLISHED OR REMODELED.
2. (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR SOLID LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
3. SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
4. EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
5. THE CONTRACTOR SHALL SALVAGE AND REUSE EXISTING BOXES AND CONDUIT WHERE POSSIBLE. DAMAGED CONDUIT, FITTINGS BOXES, ETC. MAY NOT BE RE-USED. NEW CIRCUITING AS INDICATED ON THE DRAWINGS IS SHOWN FOR INTENT ONLY AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS (NEW CIRCUITING SHALL MATCH EXISTING WHERE POSSIBLE TO UTILIZE EXISTING HOME-RUN CONDUITS, ETC.). KEEP AS-BUILT DRAWINGS CURRENT WITH ANY DEVIATION IN CIRCUITING FROM WHAT IS INDICATED WITHIN THESE PLANS.
6. THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DISCARDED AND ABANDONED MATERIALS LEFT OVER FROM DEMOLITION AND INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES. MATERIALS EMBEDDED IN GRADE AND / OR CONCRETE MAY BE ABANDONED IN PLACE. ALL ABANDONED CONDUIT SHALL BE GAPPED.
7. SEE EXISTING ONELINE DIAGRAM AND DETAILS ON SHEET E002 FOR EQUIPMENT DEMOLITION.
8. EXISTING DATA/PHONE INFRASTRUCTURE SHALL BE REMOVED IN ITS ENTIRETY.

SHEET NOTES

- ① EXISTING LOAD CENTER SHALL BE DISCONNECTED AND REMOVED. REFER TO ONELINE DIAGRAM AND PANEL SCHEDULES FOR MORE INFORMATION.
- ② EXISTING LIGHT FIXTURES AND SWITCHES IN THIS AREA SHALL BE DISCONNECTED AND REMOVED UNLESS NOTED OTHERWISE. REMOVE ALL CONDUIT AND WIRE BACK TO TERMINATION POINT.
- ③ EXISTING RECEPTACLES AND TELE/DATA CABLING IN THIS AREA SHALL BE DISCONNECTED AND REMOVED, UNLESS NOTED OTHERWISE. REMOVE ALL CONDUIT AND WIRE BACK TO TERMINATION POINT.
- ④ EXISTING OPENING TO BE REMOVED/ELIMINATED. REMOVE CONDUIT, BOX AND WIRE IN THIS LOCATION IF APPLICABLE. WALL PATCH, REPAIR, AND FINISH BY OTHERS.



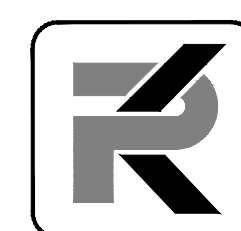
A ELECTRICAL DEMOLITION PLAN
E201 SCALE: 1/4" = 1'-0"

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 681 Sierra Rose Dr, Ste B | Reno, NV 89511 | 775.826.9010
 5105 DTC Pkwy, Ste 420 | Greenwood Village, CO 80111 | 720.481.3290
 pk@electrical.com © 2008-2015 PK Electrical, Inc. 16066

Consultant

H+K ARCHITECTS
 5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262
 P 775+332+6640
 F 775+332+6642
 hkarchitects.com

**Stewart Indian School
 Welcome Center**
 State of Nevada Indian Commission
 5366 Snyder Avenue, Building 2
 Carson City, NV 89701

Electrical Demolition
 Plan
 August 19, 2016
 H+K Project No.: 1604B
E201

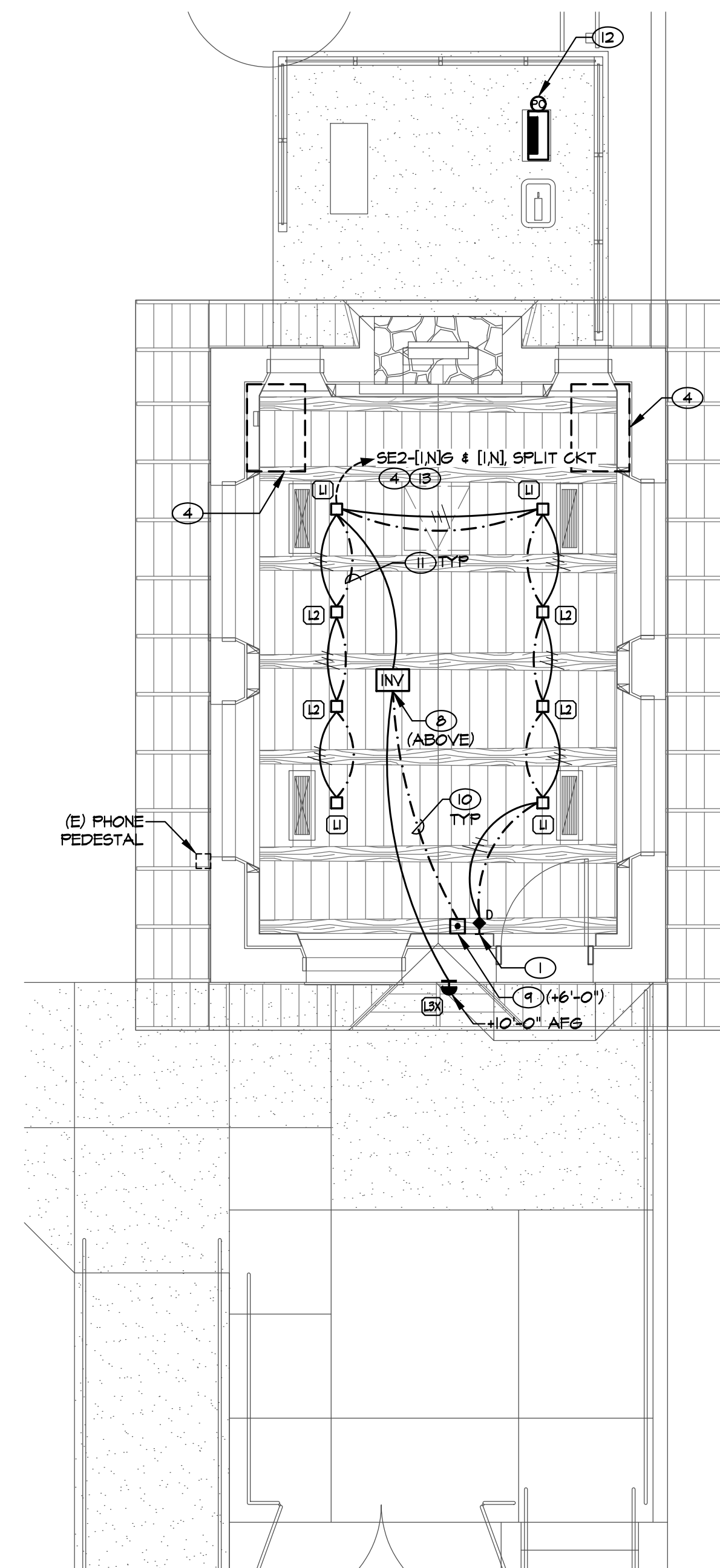


GENERAL NOTES

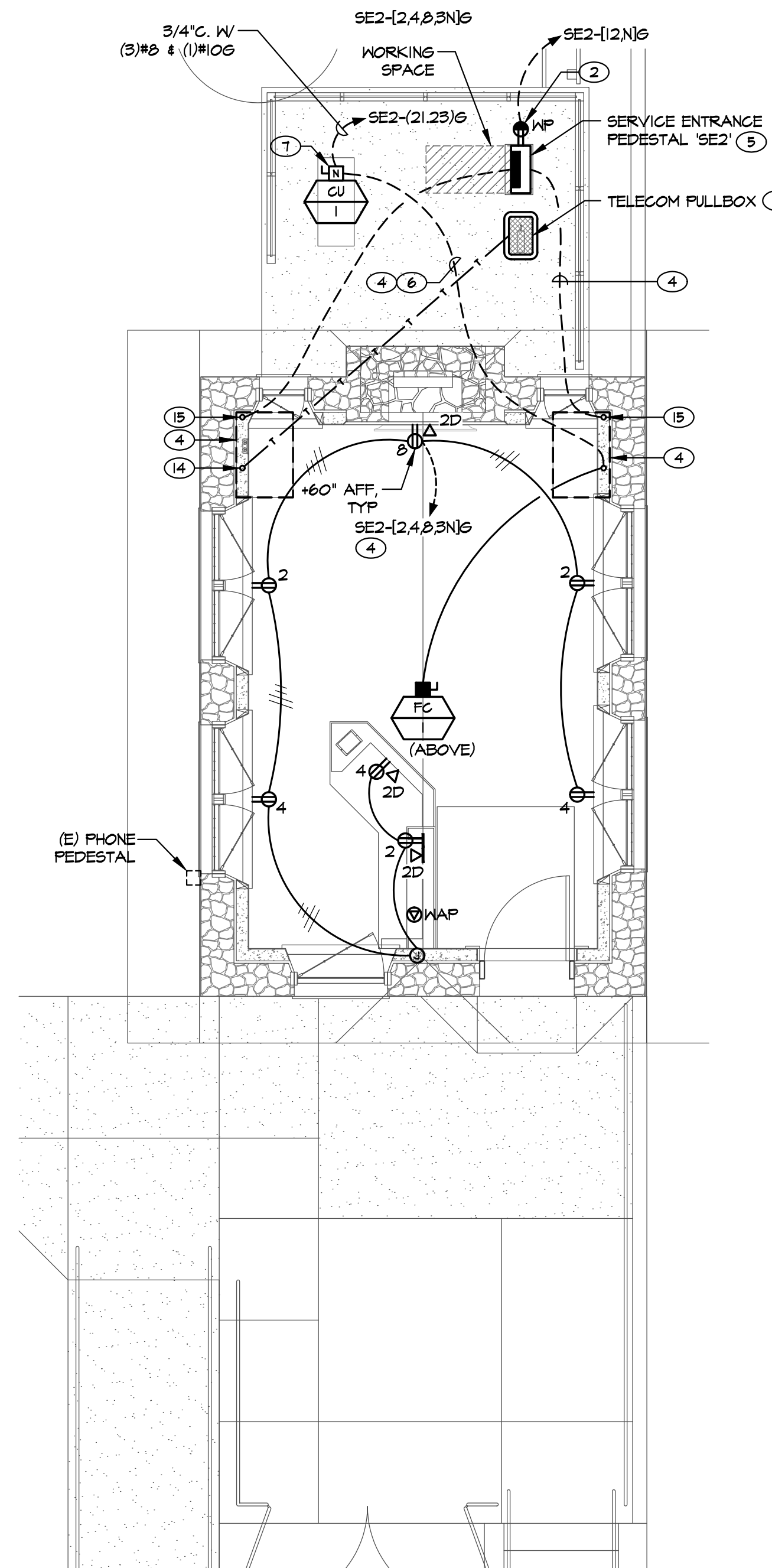
- (E) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- EXIT SIGNS SHALL BE WIRED AHEAD OF LOCAL SWITCHING FOR CONTINUOUS OPERATION. EXIT SIGNS SHALL BE WALL-MOUNTED ABOVE DOORS WHERE PRACTICAL. PROVIDE ADDITIONAL EXIT SIGNS AS NECESSARY FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, PER ARCHITECT'S FINAL PATH OF EGRESS / EXITING PLAN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHT FIXTURES.
- EXACT LOCATION AND MOUNTING HEIGHT OF EXTERIOR BUILDING-MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL ARRANGE FOR WALL OPENINGS LEFT OVER FROM DEMOLITION OF DEVICES TO BE PATCHED. BLANK COVER PLATES ARE NOT PERMITTED.
- CONTRACTOR SHALL COORDINATE FINAL RECEPTACLE LOCATIONS WITH TELECOM OUTLETS PRIOR TO ROUGH-IN. EACH TELECOM OUTLET SHALL HAVE A RECEPTACLE LOCATED WITHIN 12", MEASURED FROM CENTER OF DEVICES.
- MAXIMUM CONDUIT SIZE IN SHOCKCRETE WALL REINFORCEMENT SHALL BE 3/4" WITH 12" SPACING BETWEEN PARALLEL CONDUIT RUNS, HORIZONTAL AND VERTICAL. COORDINATE WITH STRUCTURAL SHOCKCRETE INSTALLATION PRIOR TO ROUGH-IN.
- CONDUIT FOR BUILDING-MOUNTED LIGHT FIXTURES SHALL BE ROUTED THROUGH INTERIOR OF BUILDING. LIGHT FIXTURE BACKBOXES SHALL BE RECESSED.

SHEET NOTES

- WALL MOUNTED LINE VOLTAGE 0-10V DIMMING OCCUPANCY SENSOR SWITCH #NEX-FDT-EZ-D-5A-WH OR EQUAL UPON ENGINEER'S APPROVAL. REFER TO DETAIL E/EOOS. COORDINATE REQUIREMENTS AND COMPATIBILITY WITH FIXTURE MANUFACTURER. FIXTURE BLINK OR FLICKER NOT ALLOWED. SET LOW-END TRIM AT 10% TO AVOID FLICKER.
- FURNISH AND INSTALL WEATHERPROOF DUPLEX 6FCI RECEPTACLE AND WHILE-IN-USE COVER PER NEC 210.63, COOPER #NIMV-1 OR EQUAL UPON ENGINEER'S APPROVAL.
- PROVIDE RECESSED CONCRETE HANDHOLE, CHRISTY N-4 OR EQUAL UPON ENGINEER'S APPROVAL. REFER TO DETAIL D/EOOS FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH CIVIL ENGINEER AND LANDSCAPE CONSULTANT PRIOR TO INSTALL.
- COORDINATE ALL EXTERIOR CONDUIT ROUTING WITH CONCRETE FLOOR DEMOLITION.
- REFER TO ONLINE DIAGRAM FOR CONDUIT AND WIRE SIZE.
- (SPLIT SYSTEM) PROVIDE (3) #12, #12 GND. IN 3/4" CONDUIT. FROM CONDENSING UNIT TERMINAL BLOCK TO ASSOCIATED FAN COIL UNIT. (2) CONDUCTORS PROVIDE 208V-1PH POWER TO FAN COIL UNIT AND (1) CONDUCTOR SERVES AS CONTROL WIRE BETWEEN THE UNITS.
- PROVIDE 240V, 2P, 30A, NEMA 3R NON-FUSED DISCONNECT SWITCH.
- REMOTE MOUNTED EMERGENCY LIGHTING INVERTER. COORDINATE ABOVE CEILING LOCATION WITH ATTIC ACCESS, EXISTING STRUCTURE AND UTILITIES PRIOR TO ROUGH-IN.
- REMOTE MOUNTED EMERGENCY INVERTER TEST/MONITOR WALL PLATE ASSEMBLY. PHILIPS-BODINE #PRT00036 OR EQUAL UPON ENGINEER'S APPROVAL.
- 1/2" WITH 18/4, 600V RATED CABLE, OR EQUAL UPON ENGINEER'S APPROVAL.
- LOW VOLTAGE 18/2 CLASS II CABLE FOR 0-10V DIMMING.
- EXTERIOR PHOTOCELL. REFER TO DETAIL E/EOOS.
- CONNECT EXTERIOR LIGHTING TO CIRCUIT AS INDICATED VIA LIGHTING TIMECLOCK / CONTACTOR DEVICES. REFER TO DETAIL E/EOOS FOR MORE INFORMATION ON EXTERIOR LIGHTING CONTROL DEVICES AND CABINET. LIGHTING CIRCUIT SHALL BE PHOTOCELL ON, TIMECLOCK OFF.
- PROVIDE 1" CONDUIT FROM EXTERIOR TELECOM FULLBOX TO ABOVE CEILING WITH (1) CAT 6 CABLE (WAP), (1) SPARE CAT6 CABLE AND 1,250 LB FULL STRING.
- SPARE 3/4" CONDUIT FROM SE2 TO ABOVE ACCESSIBLE CEILING FOR FUTURE ACCESS. REFER TO ONLINE DIAGRAM NEW WORK SHEET NOTES FOR ADDITIONAL INFORMATION.



A NEW WORK LIGHTING PLAN
E301 SCALE: 1/4" = 1'-0"



B NEW WORK POWER PLAN
E301 SCALE: 1/4" = 1'-0"

16065-301.dwg August 17, 2016 5:00 PM



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 5105 DTC Pkwy, Ste 420 | Greenwood Village, CO 80111 | 720.481.3290
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Consultant

H+K ARCHITECTS
 5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262
 P 775+332+6640
 F 775+332+6642
 hkarchitects.com

**Stewart Indian School
 Welcome Center**
 State of Nevada Indian Commission
 5366 Snyder Avenue, Building 2
 Carson City, NV 89701

New Work Electrical Plans

August 19, 2016
 H+K Project No.: 1604B

E301

