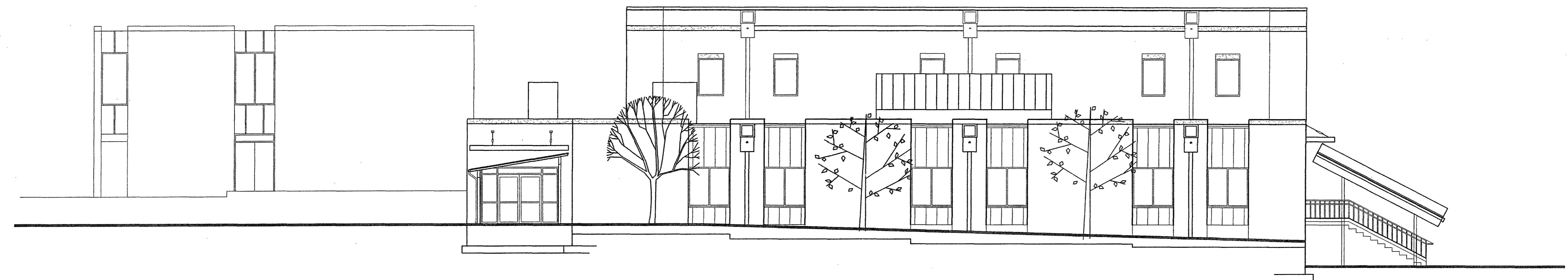


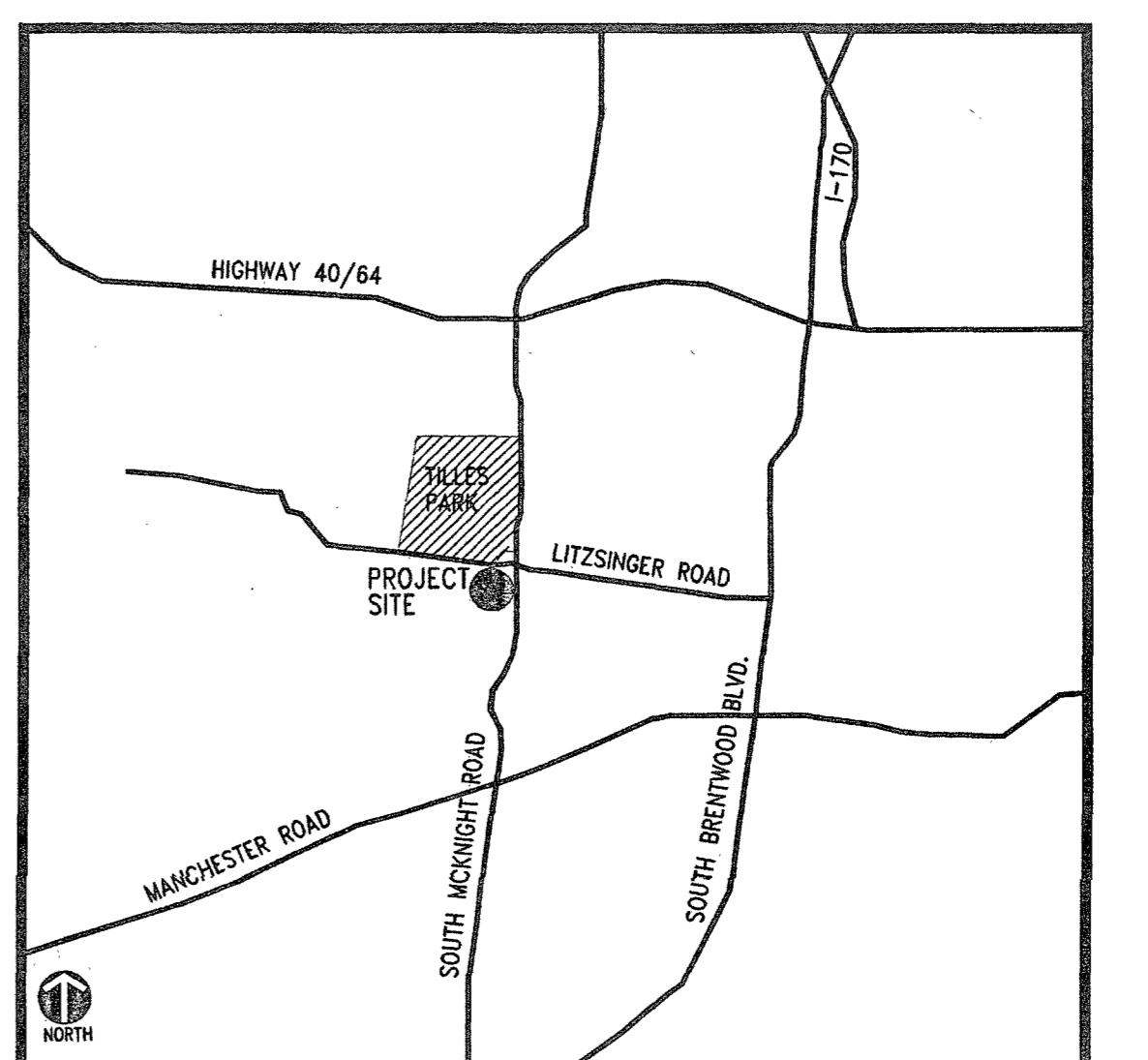
# ADDITION AND RENOVATIONS TO :

# McKnight Road Church of Christ



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SITE LOCATION MAP:

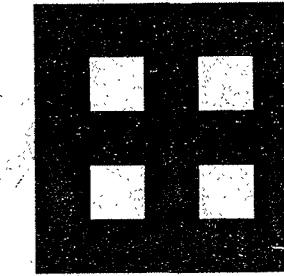
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PROJECT:  
ADDITION AND RENOVATIONS TO  
**McKnight Road**  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124

#2

CS

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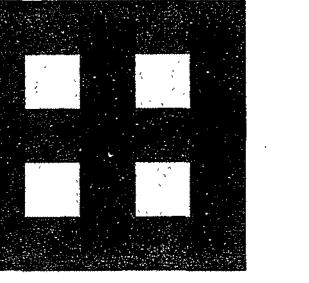
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PROJECT NO.	SHEET NO.
01403	
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CHECKED BY:	
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DATE:	
NOVEMBER 1, 2002	



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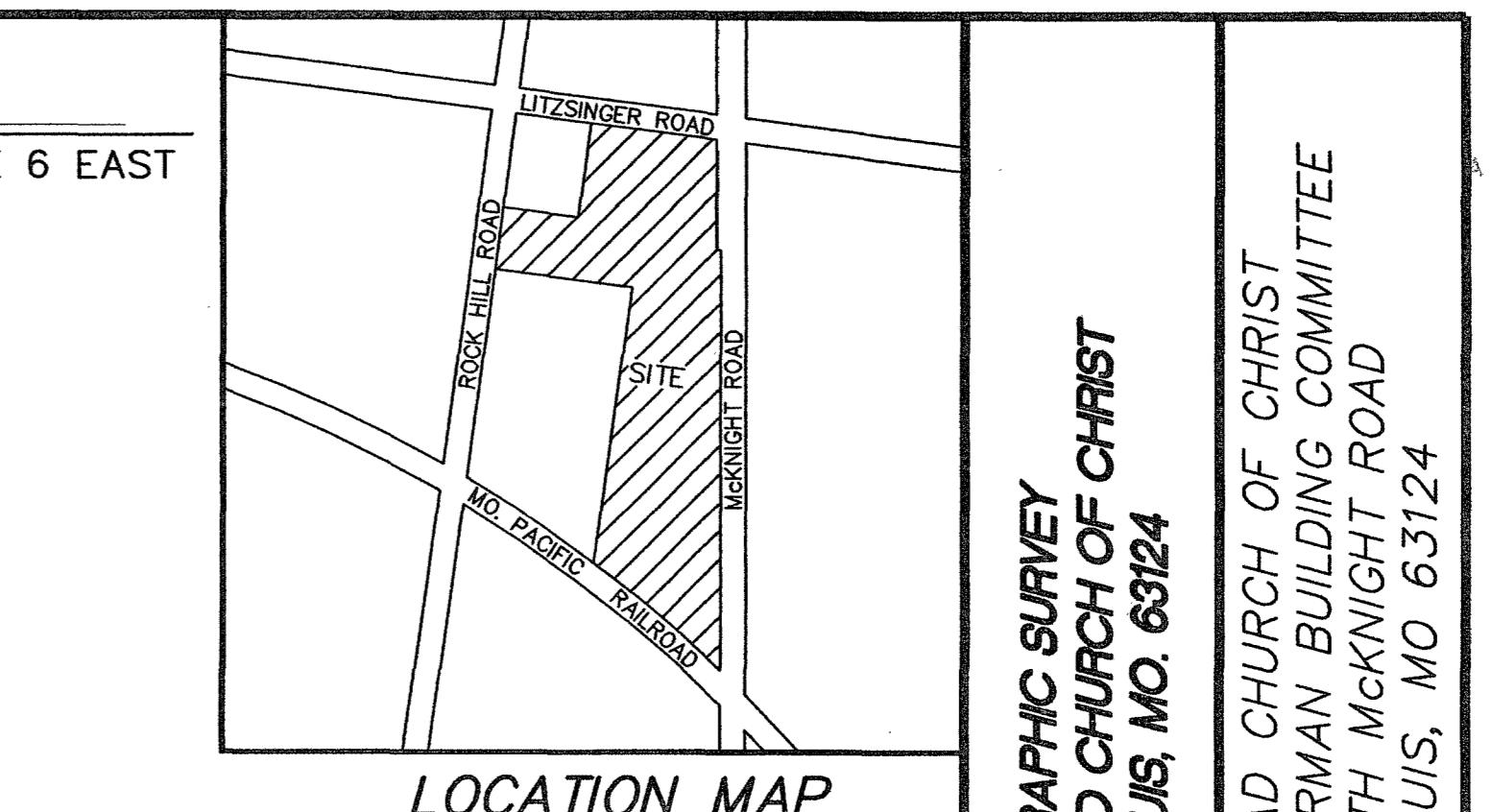
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# PROJECT: ADDITION AND RENOVATIONS TO McKnight Road Church of Christ

2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124



## TOPOGRAPHIC SURVEY

PART OF LOT 9 OF THE CHARLEVILLE FARM IN U.S. SURVEY 1930 TOWNSHIP 45 NORTH RANGE 6 EAST

ST. LOUIS COUNTY, MISSOURI

## ORIGINAL TRACT

ORIGINAL TRACT  
PART OF LOT 9 OF THE CHARLEVILLE FARM IN U.S. SURVEY 1930 TOWNSHIP 45 NORTH RANGE 6 EAST AND DESCRIBED AS FOLLOWS: TO WT: BEGINNING AT AN IRON PIPE SET AT THE INTERSECTION OF THE NORTHERN LINE OF LITZSINGER ROAD AND THE SOUTHERN LINE OF MCKNIGHT ROAD, BY DEED RECORDED IN BOOK 4271 PAGE 429, THENCE FOLLOWING THE SOUTHWEST, WESTERN LINE OF LITZSINGER ROAD PREVIOUSLY RECORDED TO THE POINT WHERE THE SAME MEETS THE FOLLOWING CONTOUR LINE; AND DISTANCE SOUTH 45 DEGREES 48 MINUTES EAST 46.87 FEET, NORTH 00 DEGREES 14 MINUTES EAST 130 FEET, NORTH 89 DEGREES 48 MINUTES EAST 5 FEET, NORTH 00 DEGREES 14 MINUTES EAST 385 FEET, SOUTH 89 DEGREES 48 MINUTES WEST 251 FEET TO AN IRON PIPE SET AT THE NORTHERN LINE OF THE MISSOURI PACIFIC RAILROAD RIGHT OF WAY, THENCE NORTHWEST ALONG THE NORTHEAST LINE OF SAID RAILROAD RIGHT OF WAY ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 193.08 FEET, A DISTANCE 204.40 FEET TO THE POINT WHERE THE IRON PIPE SET IN THE EAST PARTRIDGE PARKLINE SUBDIVISION ACCORDING TO PLAT THEREOF RECORDED IN PLAT BOOK 55 PAGE 43, OF THE ST. LOUIS COUNTY RECORDS; THENCE SOUTH 00 DEGREES 29 1/3 MINUTES EAST 330.84 FEET ALONG THE EAST LINE OF SAID SUBDIVISION TO A POINT BEING THE SOUTHERN LINE OF LITZSINGER ROAD; THENCE SOUTH 82 DEGREES 50 MINUTES EAST ALONG THE SOUTH LINE OF SAID ROAD 59.70 FEET TO THE POINT OF BEGINNING, ACCORDING TO A SURVEY THEREOF EXECUTED BY CLAYTON SURVEYING AND ENGINEERING COMPANY DURING THE MONTH OF OCTOBER, 1963.

ORIGINAL TRACT  
TOTAL AREA  
98,628 SQUARE FEET  
2.26 ACRES

## ADJUSTED TRACT

### PROPERTY DESCRIPTION

ADJUSTED TRACT:  
PART OF LOT 9 OF THE CHARLEVILLE FARM IN U.S. SURVEY 1930 TOWNSHIP 45 NORTH RANGE 6 EAST AND DESCRIBED AS FOLLOWS: BEGINNING AT AN IRON PIPE SET AT THE INTERSECTION OF THE NORTHERN LINE OF LITZSINGER ROAD AND THE SOUTHERN LINE OF MCKNIGHT ROAD, BY DEED RECORDED IN BOOK 4271 PAGE 429, THENCE SOUTH 44 DEGREES 48 MINUTES 20 SECONDS EAST, 1.00 FEET, NORTH 00 DEGREES 14 MINUTES 20 SECONDS EAST, 1.00 FEET, THENCE SOUTH 89 DEGREES 48 MINUTES 20 SECONDS EAST, A DISTANCE OF 130.00 FEET TO A POINT, THENCE SOUTH 89 DEGREES 48 MINUTES 20 SECONDS EAST, A DISTANCE OF 5.00 FEET TO A POINT, THENCE SOUTH 00 DEGREES 14 MINUTES 20 SECONDS EAST, A DISTANCE OF 130.00 FEET TO A POINT, THENCE SOUTH 89 DEGREES 48 MINUTES 20 SECONDS EAST, A DISTANCE OF 25.17 FEET TO A POINT, THENCE LEAVING SAID ROAD ON A CHORD DISTANCE 251.30 FEET TO A POINT BEING THE SOUTHWEST CORNER OF SAID LOT 9, THENCE LEAVING SAID ROAD, SOUTH 82 DEGREES 21 MINUTES 00 SECONDS EAST, A DISTANCE OF 200.00 FEET TO A POINT, THENCE LEAVING SAID ROAD, SOUTH 82 DEGREES 21 MINUTES 00 SECONDS EAST, A DISTANCE OF 200.00 FEET TO A POINT BEING THE SOUTHEAST CORNER OF LOT 7 OF EAST PARKLANE AS PER PLAT THEREOF RECORDED IN PLAT BOOK 55 PAGE 43, THENCE LEAVING SAID EAST PARKLANE SUBDIVISION, THENCE LEAVING SAID EAST LINE OF ROCK HILL (40°W) ROAD, CONTINUING ALONG SAID EAST PARKLANE, ALSO BEING A CURVE TO THE LEFT HAVING A RADIUS OF 213.80 FEET, A CHORD WHICH BEARS NORTH 00 DEGREES 14 MINUTES 20 SECONDS EAST, A DISTANCE OF 222.60 FEET TO A POINT ON THE EAST LINE OF ROCK HILL (40°W) ROAD, SAID POINT ALSO BEING THE SOUTHWEST CORNER OF SAID LOT 7, THENCE LEAVING SAID EAST LINE OF ROCK HILL (40°W) ROAD, SOUTH 82 DEGREES 21 MINUTES 00 SECONDS EAST, A DISTANCE OF 200.00 FEET TO A POINT BEING THE SOUTHEAST CORNER OF SAID LOT 4, THENCE LEAVING SAID EAST LINE OF ROCK HILL (40°W) ROAD, SOUTH 82 DEGREES 21 MINUTES 00 SECONDS EAST, A DISTANCE OF 200.00 FEET TO A POINT BEING THE SOUTHWEST CORNER OF SAID LOT 4; THENCE NORTH 82 DEGREES 21 MINUTES 00 SECONDS WEST, A DISTANCE OF 200.00 FEET TO A POINT ON SAID EAST LINE OF ROCK HILL (40°W) ROAD; THENCE ALONG SAID EAST LINE OF ROCK HILL (40°W) ROAD, SOUTH 82 DEGREES 21 MINUTES 00 SECONDS EAST, A DISTANCE OF 90.00 FEET TO A POINT BEING THE SOUTHWEST CORNER OF LOT 2 OF SAID EAST PARKLANE SUBDIVISION, THENCE LEAVING SAID EAST LINE OF ROCK HILL (40°W) ROAD, SOUTH 82 DEGREES 21 MINUTES 00 SECONDS EAST, A DISTANCE OF 110.00 FEET TO A POINT BEING THE SOUTHWEST CORNER OF SAID LOT 2; THENCE NORTH 07 DEGREES 35 MINUTES 00 SECONDS EAST, A DISTANCE OF 137.00 FEET TO A POINT ON THE SOUTH LINE OF LITZSINGER (40°W) ROAD; THENCE ALONG SAID SOUTH LINE OF LITZSINGER (40°W) ROAD, SOUTH 82 DEGREES 21 MINUTES 00 SECONDS EAST, A DISTANCE OF 149.76 FEET TO THE POINT OF BEGINNING.

ADJUSTED TRACT  
TOTAL AREA  
167,431 SQUARE FEET  
3.84 ACRES

## BASE FLOOD ELEVATION

— 471 — BASE FLOOD ELEVATION LINE; ELEVATION IN FEET

471

## BENCHMARK INFORMATION

14-359 493.09 — ON THE NORTHEAST CORNER AT THE NORTH END OF A RETAINING WALL AT THE CHURCH OF CHRIST; 50' WEST OF THE CENTERLINE OF LITZSINGER ROAD.

14-31 507.30 — RM 416 FEMA PANEL 301; "S," ON SOUTHEAST CORNER OF THIRD CONCRETE STEP ON SOUTH SIDE OF FRONT STAIRCASE LEADING UP TO HOUSE AT #101 N. ROCK HILL ROAD.

## BASIS OF BEARING

BEARINGS ARE BASED ON THE EASTERN LINE OF ROCK HILL (40°W) ROAD, EAST PARKLANE, AS RECORDED IN PLAT BOOK 55, PAGE 43 OF THE ST. LOUIS COUNTY, MISSOURI RECORDS, SAID BEARING BEING NORTH 07 DEGREES 35 MINUTES 00 SECONDS EAST.

GENERAL NOTES  
1. BUILDING LINES AND EXTERIOR LINES FROM EAST PARKLANE AS RECORDED IN PLAT BOOK 55, PAGE 43 OF THE ST. LOUIS COUNTY, MISSOURI RECORDS AND ZONING ORDINANCES OF THE CITY OF LAUDIE, MISSOURI.

## SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT SHERRILL ASSOCIATES, INC. AT THE REQUEST AND FOR THE EXCLUSIVE USE OF MCKNIGHT ROAD CHURCH OF CHRIST HAS MADE A SURVEY OF THE PROPERTY OWNED BY MCKNIGHT ROAD CHURCH OF CHRIST, AND ADJUSTMENT PLAT FROM RECORD SOURCES AND ACTUAL FIELD SURVEYS IN ACCORDANCE WITH THE RULES OF THE MISSOURI BOARD OF SURVEYORS, PROFESSIONAL LAND SURVEYORS AND SURVEYORS (4 CSR 30-16.03 REVISED 12/20/94). ALL LINEAR AND ANGULAR VALUES SHOWN ARE BASED UPON DEED OR RECORD INFORMATION UNLESS OTHERWISE NOTED.

JERRY L. WILLIAMS  
OWNER  
NUMBER  
DATE: 3/27/02  
JERRY L. WILLIAMS, PLS  
SHERRILL ASSOCIATES, INC.  
PROJECT NO. 23797  
DRAWN BY JLW  
CHECKED JLW  
DATE 3/25/2002  
REVISIONS  
NO. DATE  
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SHEET 1 OF 1

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SHEET 1 OF 1

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CHECKED BY:  
MEP: *[Signature]*  
DATE: NOVEMBER 1, 2002

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1/1

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Graphic Scale  
1=40'

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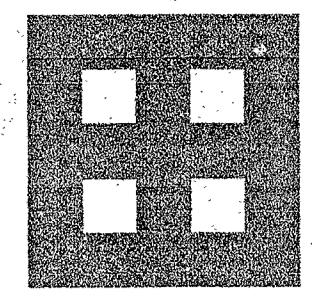
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# PROJECT: ADDITION AND RENOVATIONS TO McKINNIS SOUTH ROAD CHURCH OF CHRIST 2515 SOUTH MCKINNIS ROAD DETROIT MI 48214

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**C1**

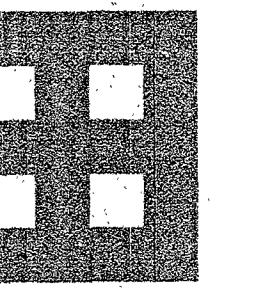
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CHECKED BY:  
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DATE: NOVEMBER 1, 2002

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GENERAL NOTES:

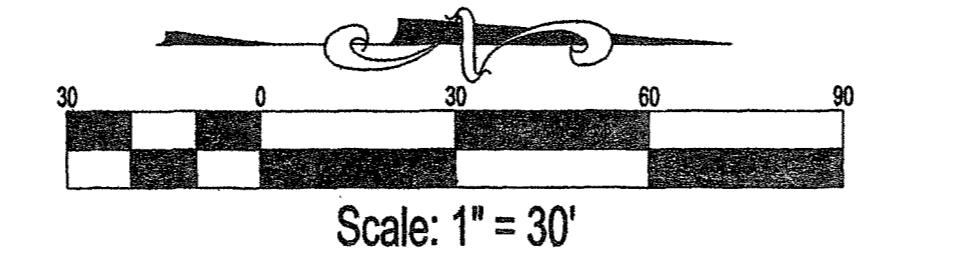
- Underground facilities, structures, and utilities have been plotted from available surveys and records. Therefore, their locations must be considered approximate only. There may be others, the existence of which is presently not known. It is the responsibility of the contractor to have all underground utilities located in the field prior to excavation or construction.
- Any excess construction and/or excavation materials shall be removed from site and disposed of properly by the contractor.
- Contractor to disturb affected areas the minimum amount necessary to complete the work and to take extra care not to disturb any areas outside the construction area.
- The contractor shall be responsible for installing erosion control devices as necessary to control erosion during the course of construction.
- The contractor shall be responsible for obtaining all construction permit from the St. Louis County, Metropolitan St. Louis Sewer District and the St. Louis County Department of Highways and Traffic, as well as any other permits.
- All construction methods and materials shall conform to the St. Louis Metropolitan Sewer District Standard Construction Speed (2000 Edition).
- Shall require review by department of public works and traffic for sight distance consideration and approved prior to installation or construction.
- Utility companies will require coordination for relocation of their utility facilities within public road right-of-way. Utility relocation costs shall be the responsibility of the developer.
- A grading permit is required prior to any grading on the site. No change in watershed shall be permitted.
- Not required for water drainage control in the form of station control measures are required.
- All storm water shall be discharged at an adequate natural discharge point.
- Associate temporary off-street parking shall be provided for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driving conditions.
- All filled areas, including trench back fills, under building, proposed storm and sanitary sewer lines, public right-of-way and paved areas shall be compacted to a maximum of 90% of maximum dry density as determined by modified asphalt cone test, ASTM D6937-76.
- Contractor to call for a site line to have all utilities located on the ground in all areas affected by construction, prior to beginning construction.
- For sewer pipe, storm, sanitary, and combined with a design grade less than one percent (1%), verification of the pipe grade will be required for each installed reach of sewer. Prior to any surface restoration or installation of any surface improvements, the contractor's field supervisor will be required to provide daily documentation verifying that the as-built pipe grade meets the design grade through the submittal of signed cut sheets to the M.S.D. inspector. Upon request, final surveyed verification must be made under the direction of a licensed land surveyor. The contractor is responsible for removing and replacing any sewer and replace any sewer reach having an as-built grade which is flatter than the design grade by more than 0.1%. Sewers with grades greater than the design slope may be left in place, provided no other sewer grade is reduced by this variance in the as-built grade. M.S.D. also reserves the right to require the contractor to remove and replace any sewer at any time prior to construction approval, for which the as-built grade does not comply with the grade tolerance stated in the above paragraph. The sewer contractor shall be responsible for any cost associated with the field verification of the sewer grade, or removal and replacement of the sewer pipe or associated appurtenances.

X SEE SHEET C3 FOR KEYED NOTES.

# PROJECT: ADDITION AND RENOVATIONS TO McKnight Road

Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124

## SITE PLAN



Scale: 1" = 30'



### M.S.D. BENCHMARK

14-359  
493.09 - "L" ON THE NORTHEAST CORNER AT THE NORTH END OF A RETAINING WALL AT THE CHURCH OF CHRIST; 50' WEST OF THE CENTERLINE OF MCKNIGHT ROAD AND 200' SOUTH OF THE CENTERLINE OF LITZINGER ROAD.

14-31  
507.30 - RM 416 FEMA PANEL 301; "S0," ON SOUTHEAST CORNER OF THIRD CONCRETE STEP ON SOUTH SIDE OF FRONT YARD ENTRANCE TO HOUSE AT #1101 N. ROCK HILL ROAD.

PER SURVEYOR, ALL EASEMENTS RECORDED EAST PARKLANE SUBDIVISION, BK. 55, PG. 43

### M.S.D. PH 24741 M.S.D. BASE MAP 21-L2

WUNNENBERG'S STREET GUIDE 2002  
PAGE 35 Q-22

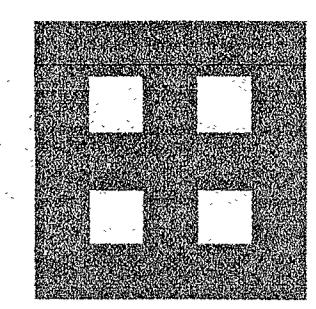
### LEGEND

EXISTING	NEW	EXISTING	NEW
○ MANHOLE	● INLET MANHOLE	○ REDUCER	△ THRUST BLOCK
□ GRATE INLET	□ DOUBLE GRATE INLET	□ WATER METER (W.M.)	□ FIRE HYDRANT (F.H.)
■ DOUBLE INLET	□ D.G.I. = DOUBLE GRATE INLET	○ AIR RELIEF VALVE	○ BUTTERFLY VALVE
□ POWER VAULT	□ D.G.I. = DOUBLE GRATE INLET	○ DIA. = DIAMETER	○ CHECK VALVE
□ TELEPHONE VAULT	□ T.V.P. = TELEPHONE POLE ANCHOR	○ DIA. = DIAMETER	○ E.O.P. = EDGE OF PAVEMENT
□ TRANSFORMER TOWER	□ T.V.P. = TELEPHONE POLE ANCHOR	○ E.O.P. = EDGE OF PAVEMENT	○ E.S.T. = EASEMENT
□ LIGHT STANDARD	□ FLOW DIRECTION	○ F.D. = FLOOR DRAIN	○ EXIST. = EXISTING
□ TEST HOLE	○ FLOW DIRECTION	○ F.D. = FLOOR DRAIN	○ F.G. = GRAVE INLET
□ BENCHMARK	○ FLOW DIRECTION	○ F.D. = FLOOR DRAIN	○ F.O.L. = FIBER OPTIC LINE
□ CABLE TV. PEDESTAL	○ FLOW DIRECTION	○ F.D. = FLOOR DRAIN	○ G.I. = GRAVE INLET
□ TREE	○ FLOW DIRECTION	○ F.D. = FLOOR DRAIN	○ M.H. = MANHOLE
○ INLET OR STRUCTURE DESIGNATOR	○ INLET OR STRUCTURE DESIGNATOR	○ F.D. = FLOOR DRAIN	○ O.H.E. = OVERHEAD ELECTRIC
===== SEWERS =====	===== SEWERS =====	○ F.D. = FLOOR DRAIN	○ P.V.C. = POLYVINYL CHLORIDE PIPE
----- GRADE -----	----- GRADE -----	○ F.D. = FLOOR DRAIN	○ P.M.T. = PAVEMENT
○ FENCE	○ FENCE	○ F.D. = FLOOR DRAIN	○ P.R.C.P. = REINFORCED CONCRETE PIPE
2' C	2' C	○ F.D. = FLOOR DRAIN	○ R.B.F. = RIGHT OF WAY
UNDERGROUND UTILITIES	UNDERGROUND UTILITIES	○ F.D. = FLOOR DRAIN	○ R.B.W. = TO BE REMOVED
○ SPOT ELEV.	○ SPOT ELEV.	○ F.D. = FLOOR DRAIN	○ T.R.A. = TERMINAL RAILROAD ASSOCIATION
○ SIGN	○ SIGN	○ F.D. = FLOOR DRAIN	○ U.G.C. = UNDERGROUND CABLE
○ SPOT ELEV.	○ SPOT ELEV.	○ F.D. = FLOOR DRAIN	○ U.G.T. = UNDERGROUND TELEPHONE
○ SPOT ELEV.	○ SPOT ELEV.	○ F.D. = FLOOR DRAIN	○ V.C.P. = VITRIFIED CLAY PIPE
○ SPOT ELEV.	○ SPOT ELEV.	○ F.D. = FLOOR DRAIN	○ W. = WIRE
○ SPOT ELEV.	○ SPOT ELEV.	○ F.D. = FLOOR DRAIN	○ CAP/PLUG

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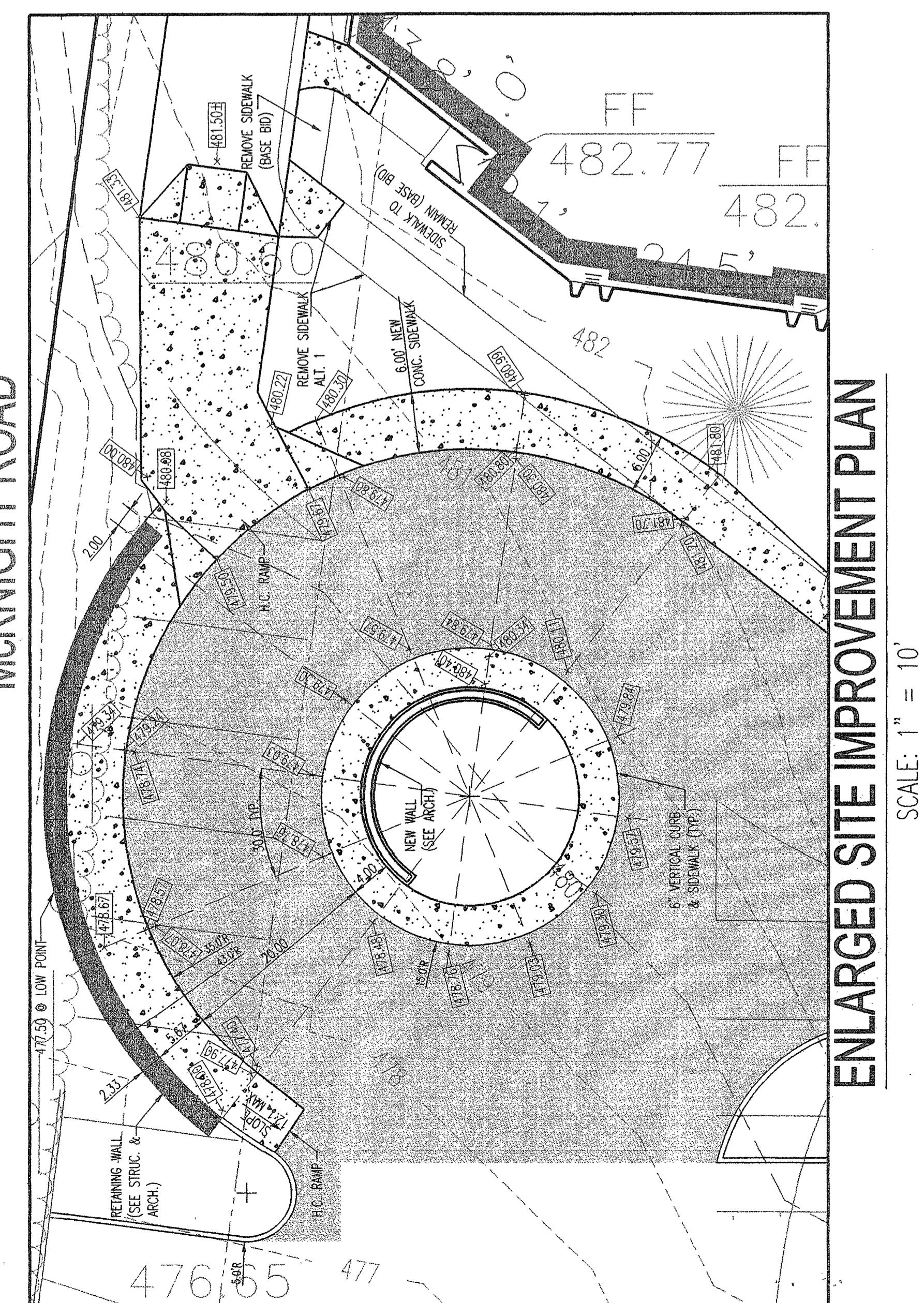
# ADDITION AND RENOVATIONS TO McKnight Road Church of Christ 2515 South McKnight Road St. Louis Mo 63124

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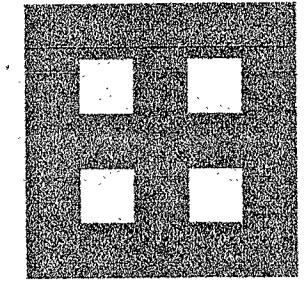
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# SITE IMPROVEMENT PLAN



# ENLARGED SITE IMPROVEMENT PLAN



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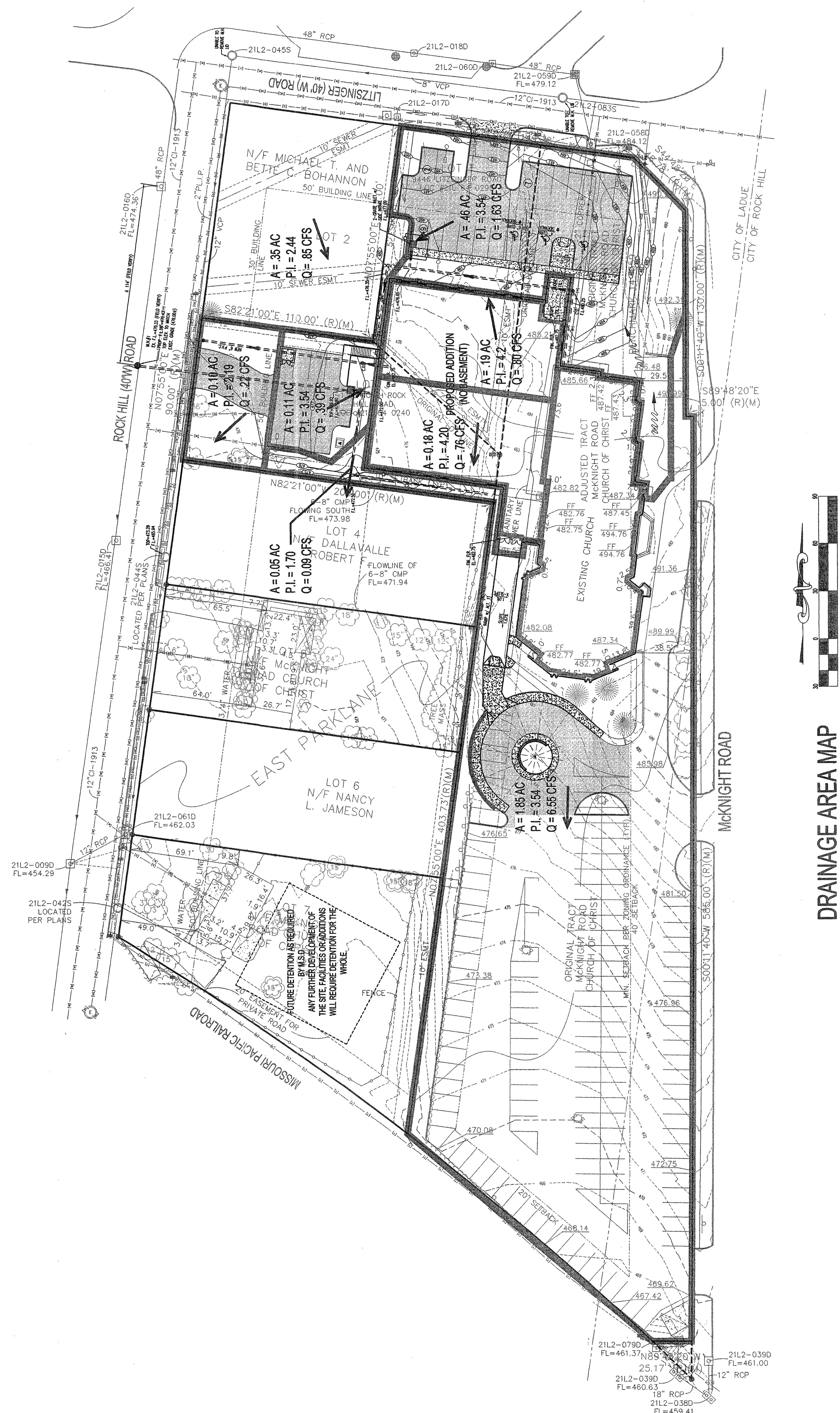
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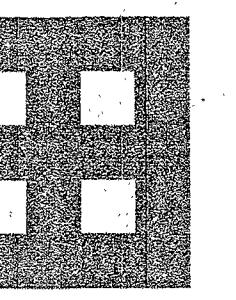
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# DRAINAGE AREA MAP

# BRINNEE CALCULATIONS

SITE AREA:	2.8 AC.
EXISTING IMPERVIOUS	1.83 AC.
PROPOSED IMPERVIOUS	2.13 AC.
NET INCREASED RUNOFF:	(3.54 - 1.7) (0.3 AC) = 0.55 GFS



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# McKnight Road Church of Christ

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
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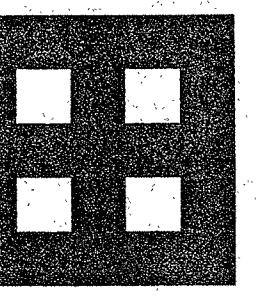
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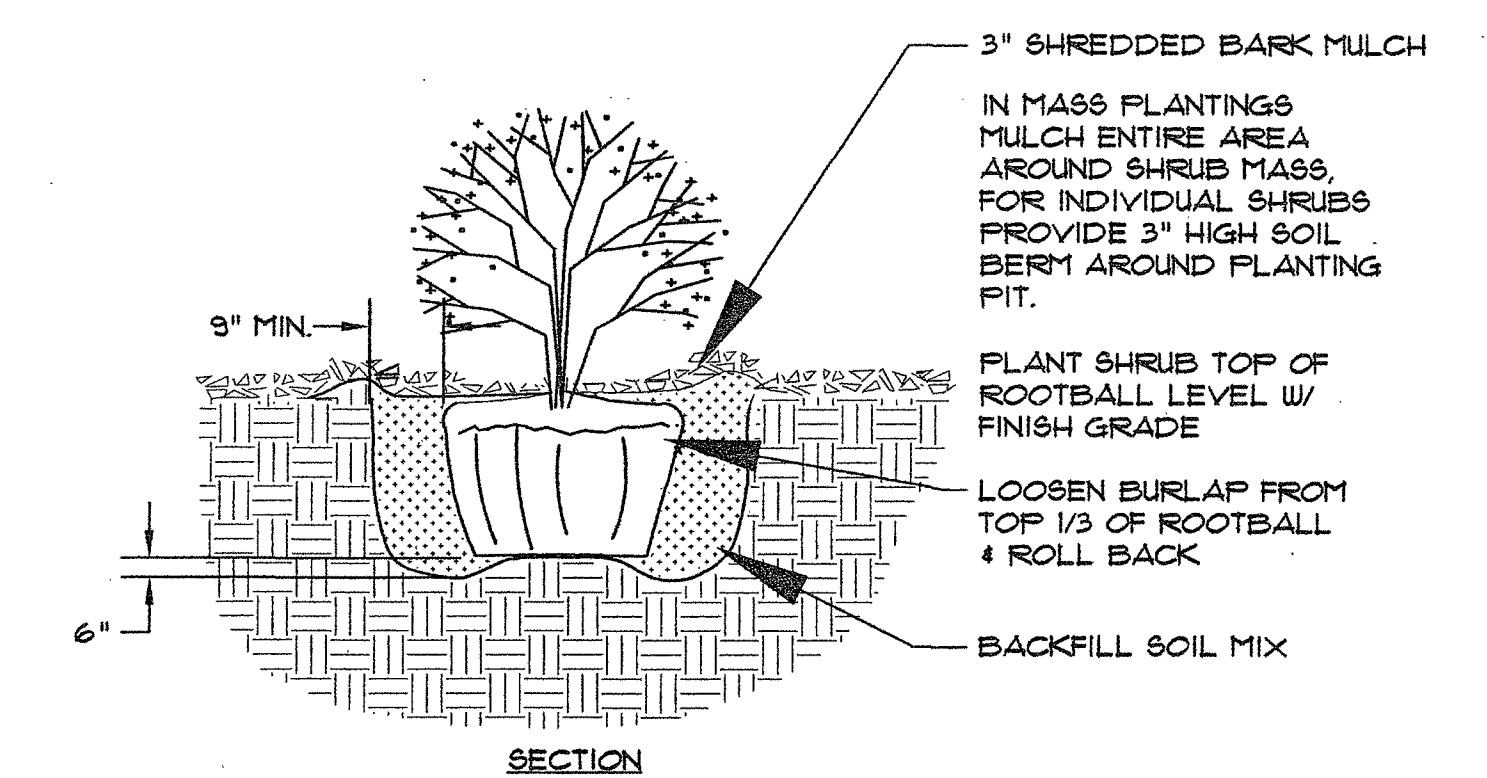
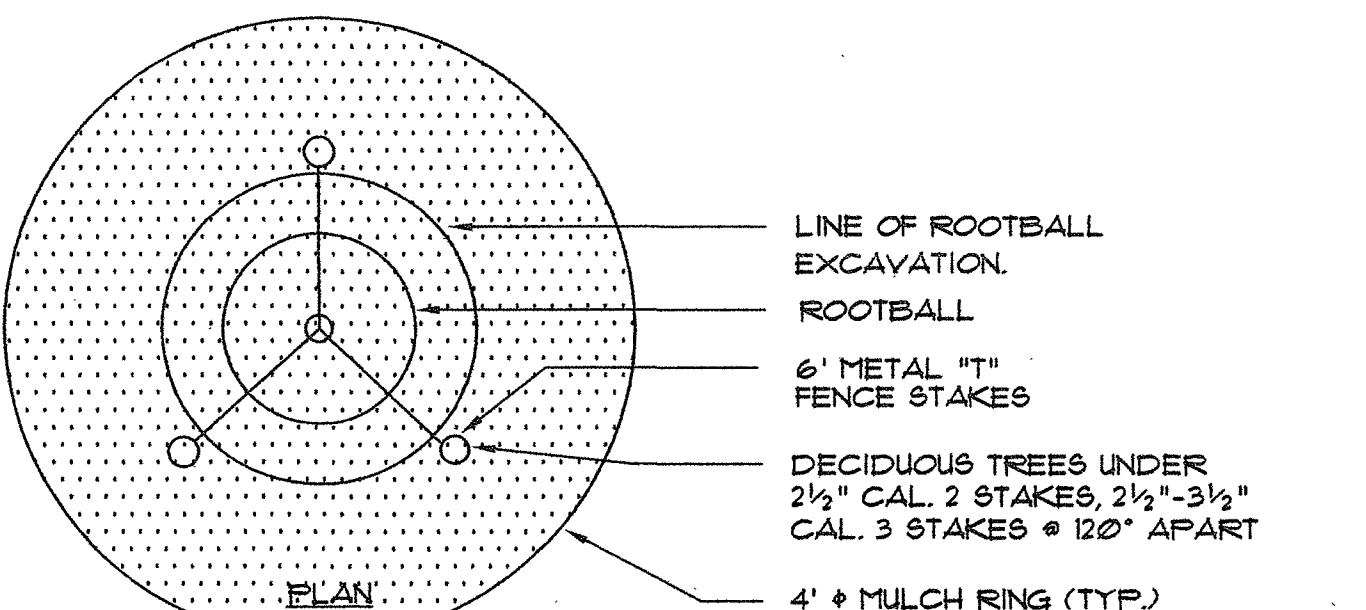
**McKnight Road**  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124

### PLANT LIST

QTY. COMMON / BOTANICAL NAME	SIZE/ CONDITION / REMARKS
<b>CANOPY TREES</b>	
5 WHITE ASH / Fraxinus americana 'Autumn Purple'	2½" CAL / B4B /
<b>EVERGREEN TREES</b>	
6 WHITE PINE / Pinus strobus	6'-7' HT. / B4B /
<b>SHRUBS</b>	
24 DENSE YEW / Taxus x media 'Densiformis'	24" HT. / B4B / 3' O.C.
43 CHINESE JUNIPER / Juniperus chinensis 'Spartan'	5" HT. / B4B / 4' O.C.
10 CREEPING JUNIPER / Juniperus horizontalis 'Bar Harbor'	36" SP. / B4B. OR CONT. / 5' O.C.
22 BROADMOOR JUNIPER / Juniperus sabina 'Broadmoor'	
22 GOLDFINGER POTENTILLA / Potentilla fruticosa 'Goldfinger'	18" HT. / B4B. OR CONT. / 30" O.C.
80 SF ANNUALS / Initial seasonal planting to be installed by contractor	2 QT. / CONT. / 12" O.C.

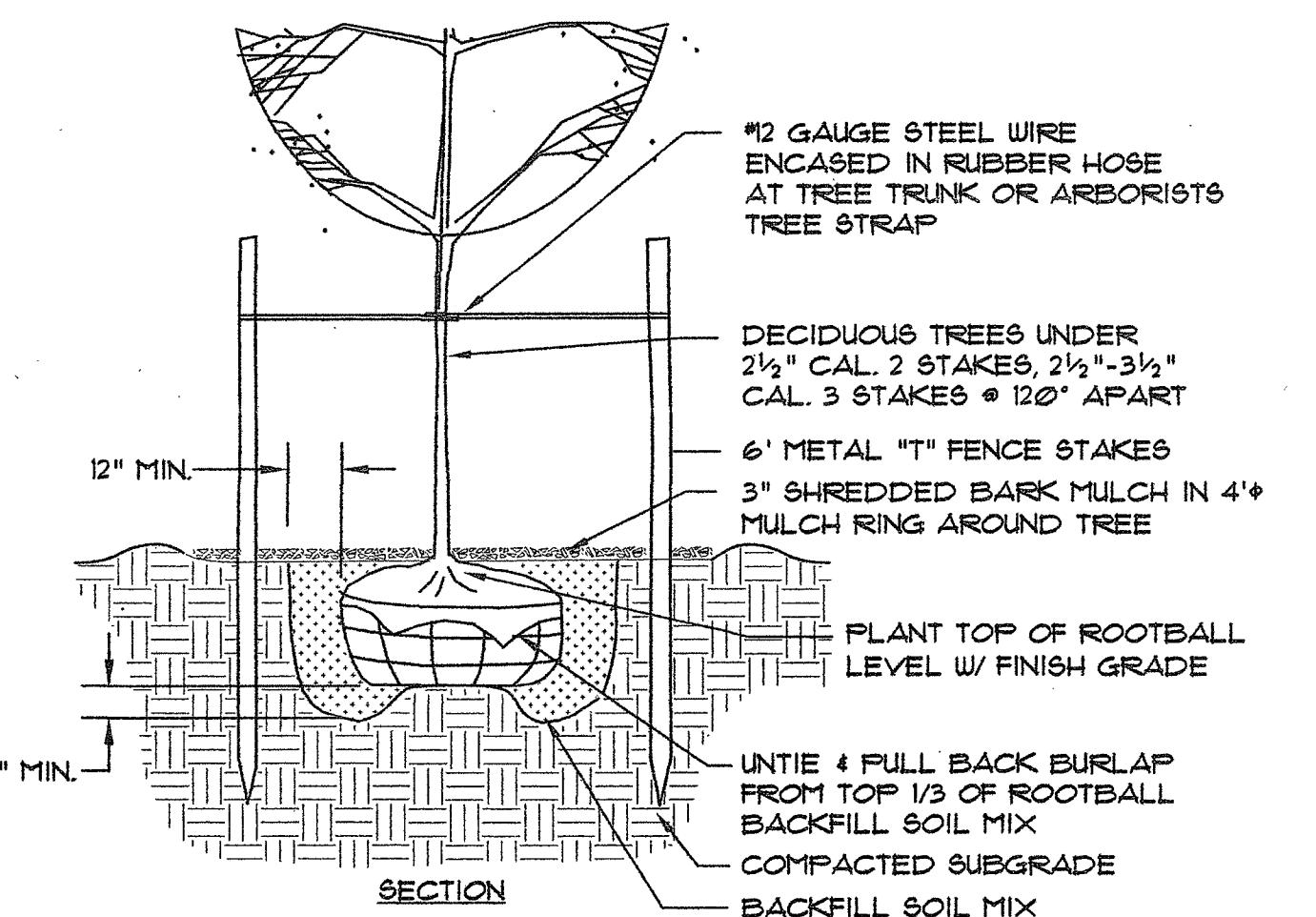
### NOTES:

- CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES. PLANT QUANTITIES ON PLANS PREVAIL OVER THOSE LISTED IN PLANT LIST.
- CONTRACTOR SHALL VERIFY SITE CONDITIONS, INCLUDING UNDERGROUND UTILITIES PRIOR TO START OF WORK. REPORT TO OWNER'S REPRESENTATIVE ANY CONDITION THAT MAY AFFECT CONTRACT. CONTRACTOR SHALL REPAIR ANY DAMAGE TO SITE ELEMENTS DUE TO CONTRACTOR'S ACTIVITY AT NO EXTRA COST TO OWNER.
- CONTRACTOR SHALL COORDINATE SCHEDULE AND INSTALLATION OF LANDSCAPING WITH THE OWNER'S REPRESENTATIVE.
- MULCH ENTIRE SHRUB PLANTING AREAS WITH 3" DEPTH OF SHREDDED BARK MULCH. ALL SHRUBS BEDS IN LAWN AREAS TO HAVE SPADE CUT EDGE. PROVIDE 4" DIA. MULCH RING AROUND ALL NEW TREES WITH MIN 3" DEPTH OF SHREDDED BARK MULCH. GROUND COVER BEDS TO RECEIVE MIN. 2" DEPTH OF SHREDDED BARK MULCH.
- FORMAL LINES AND GROUPINGS OF A SPECIES OF TREE SHALL BE MATCHED FOR SIZE AND FORM.
- CONTRACTOR SHALL COORDINATE SCHEDULE AND STAKING/LOCATION OF BED EDGES WITH IRRIGATION CONTRACTOR.
- ALL DISTURBED AREAS SHALL BE SEEDED.
- ALL SEEDED AREAS ON SLOPES OF 3:1 OR GREATER SHALL HAVE EROSION CONTROL BLANKETS AS SPECIFIED.
- SEE CIVIL AND ARCH. DUGS FOR EXISTING AND PROPOSED CONDITIONS.
- SEE SPECIFICATIONS FOR ADDITIONAL NOTES AND REQUIREMENTS.



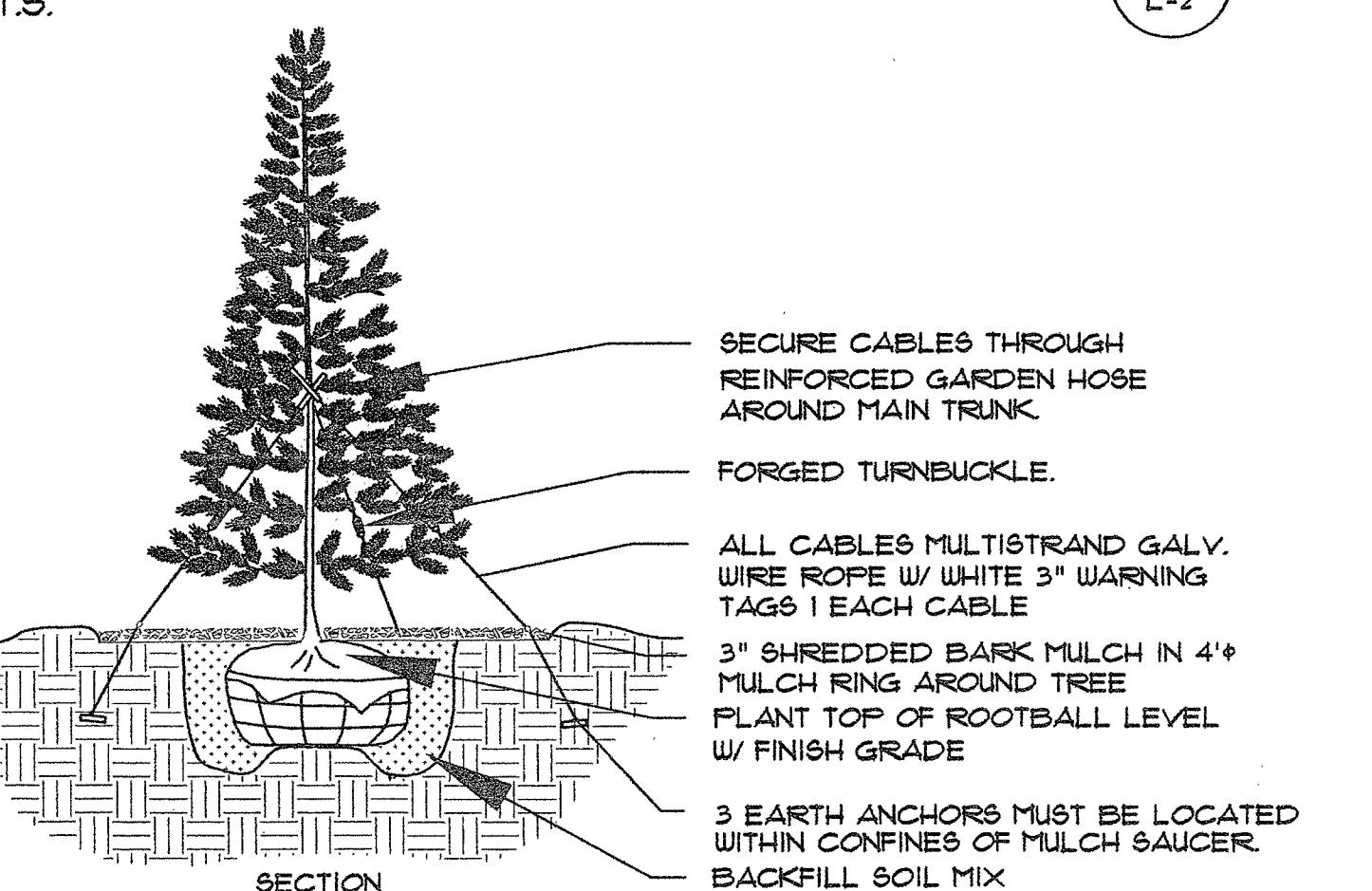
### SHRUB PLANTING

N.T.S.



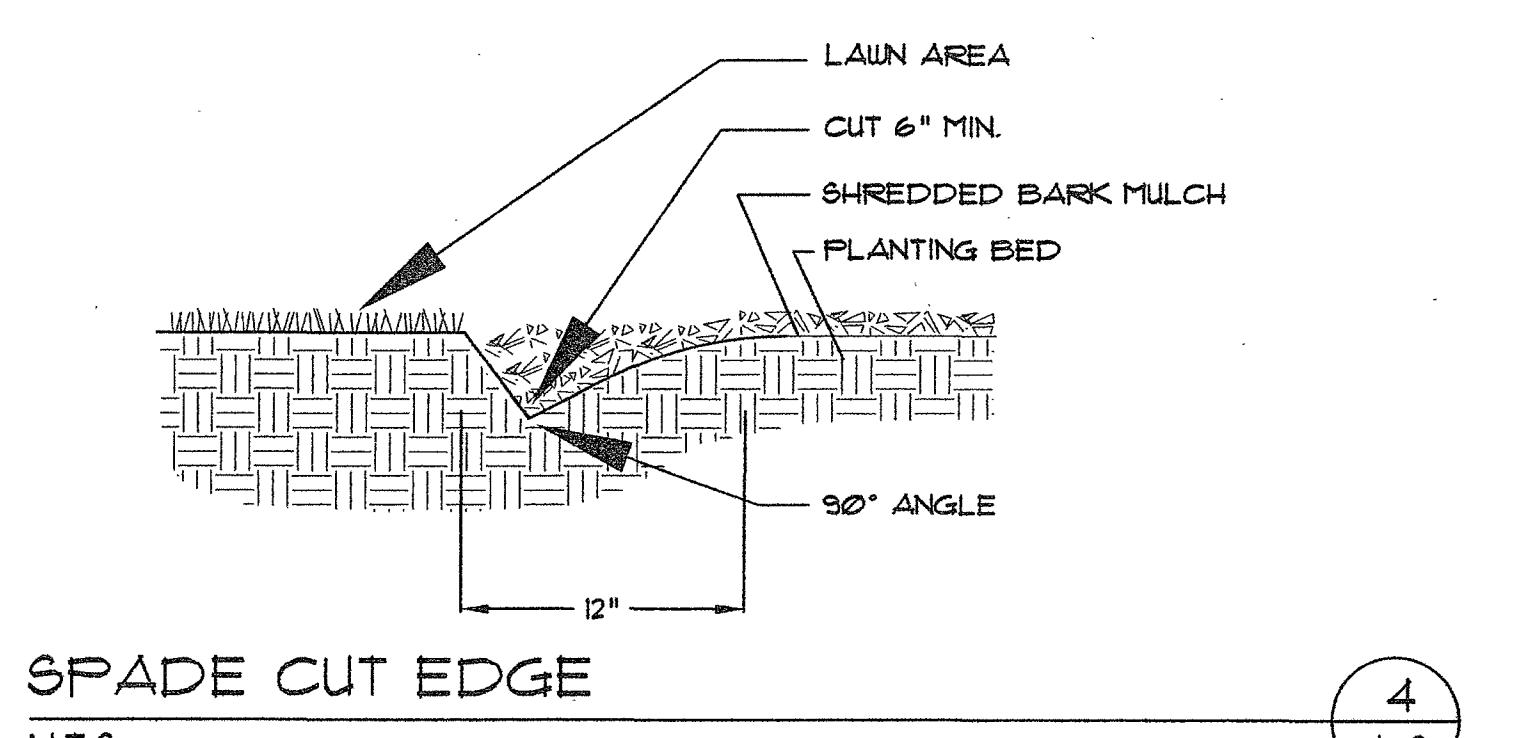
### TREE PLANTING & STAKING

N.T.S.



### EVERGREEN TREE

N.T.S.



### SPADE CUT EDGE

N.T.S.

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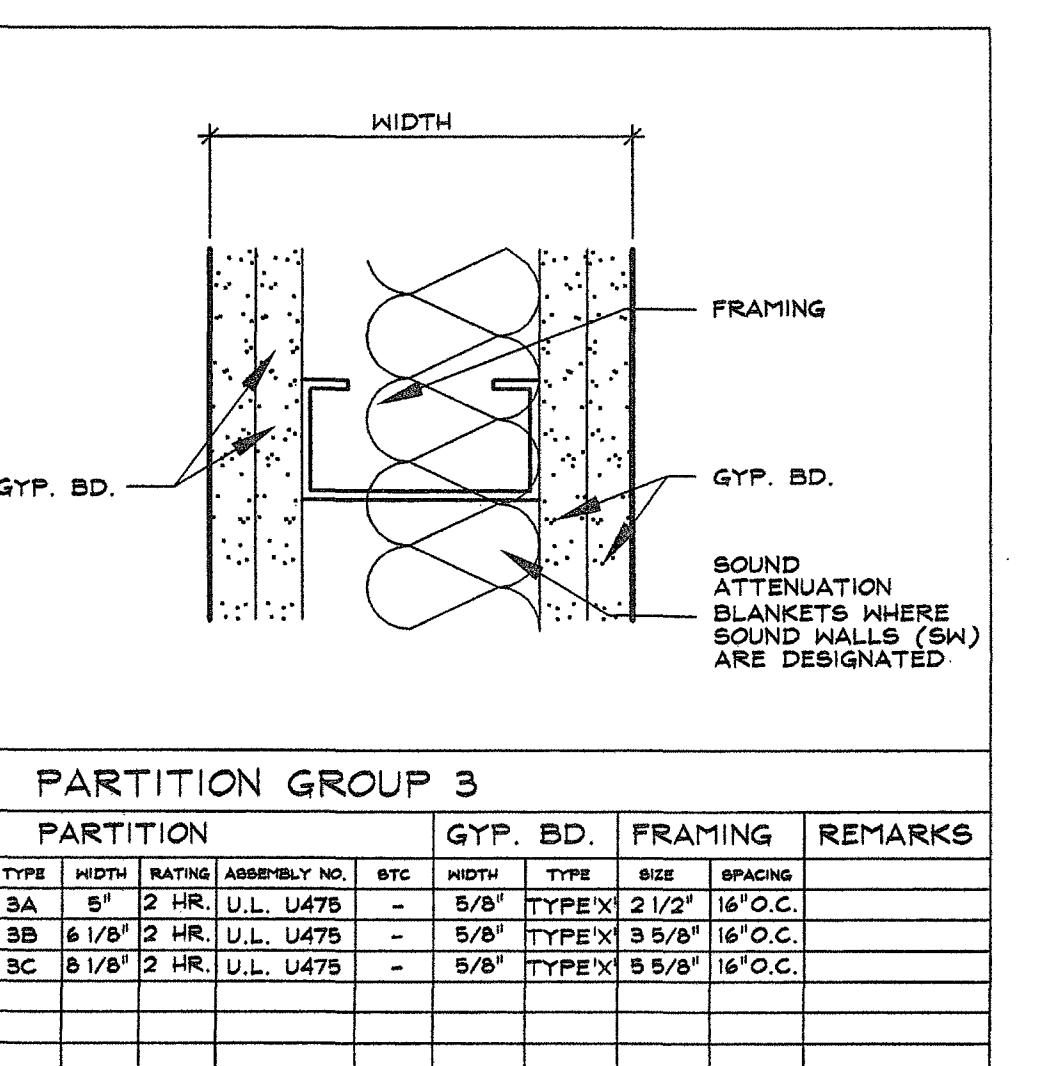
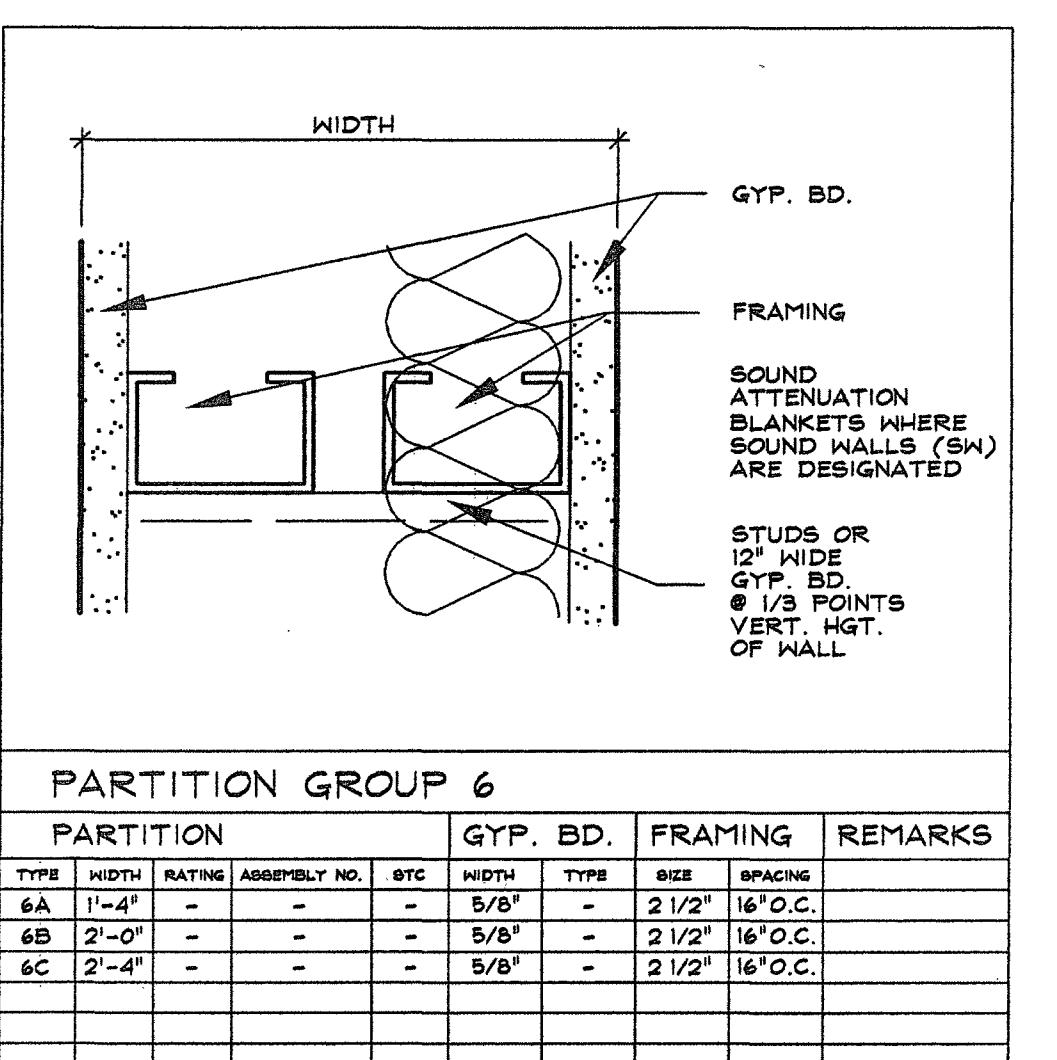
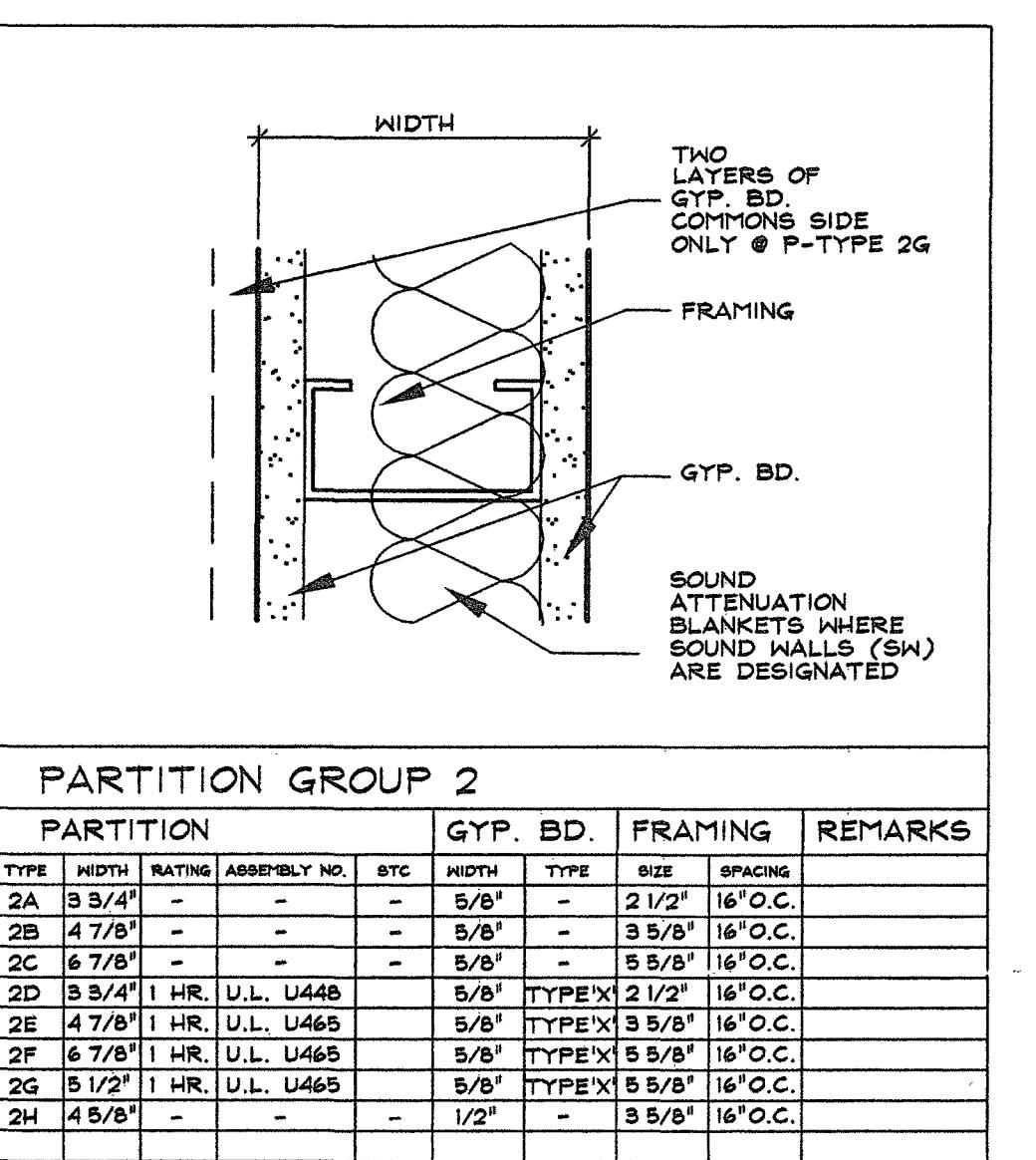
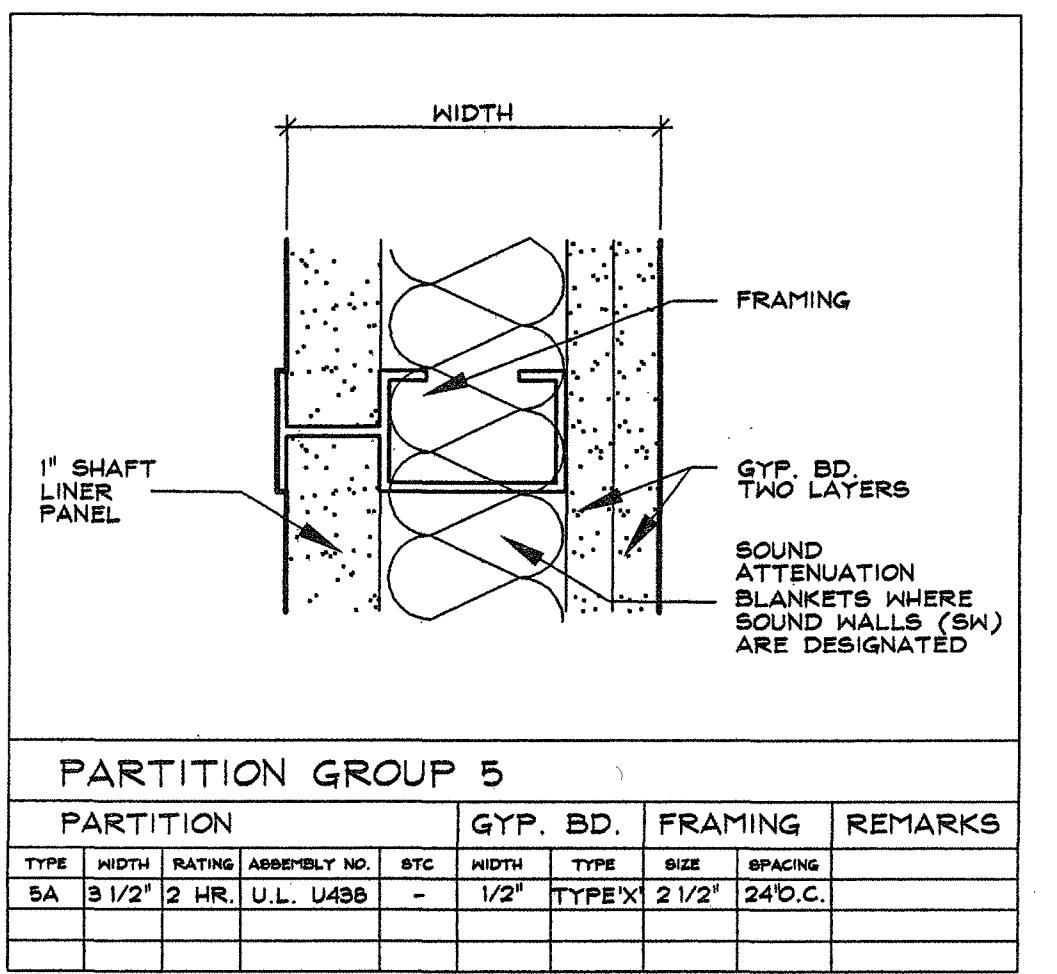
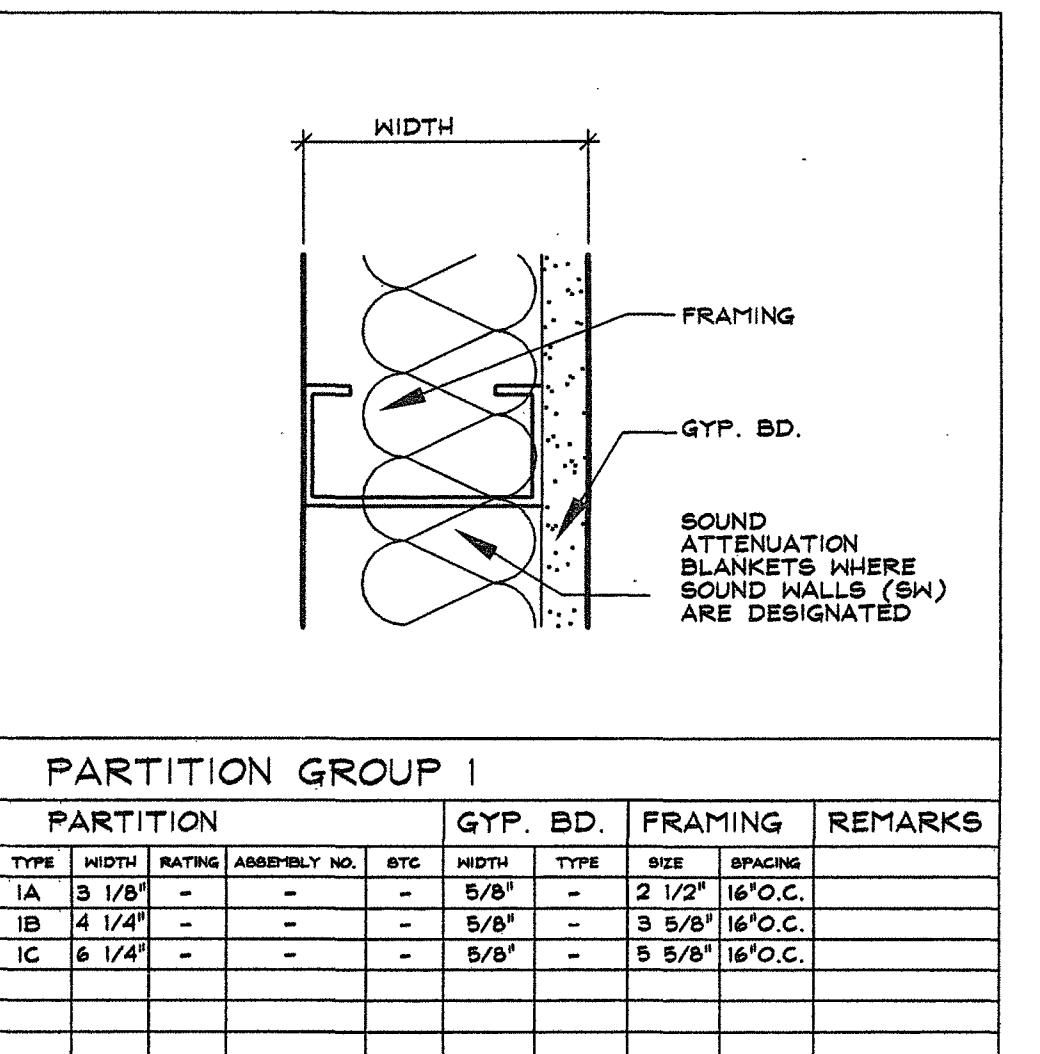
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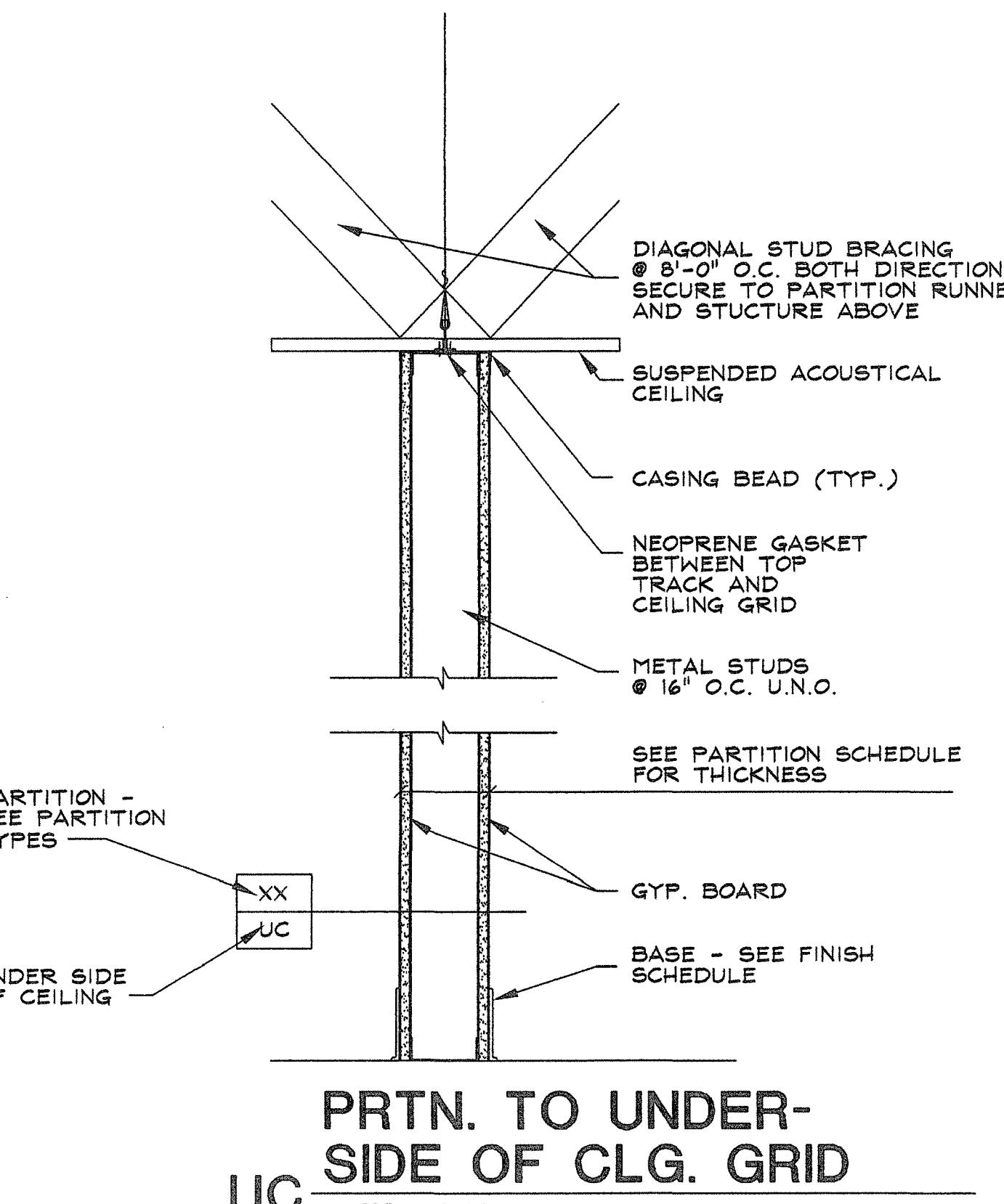
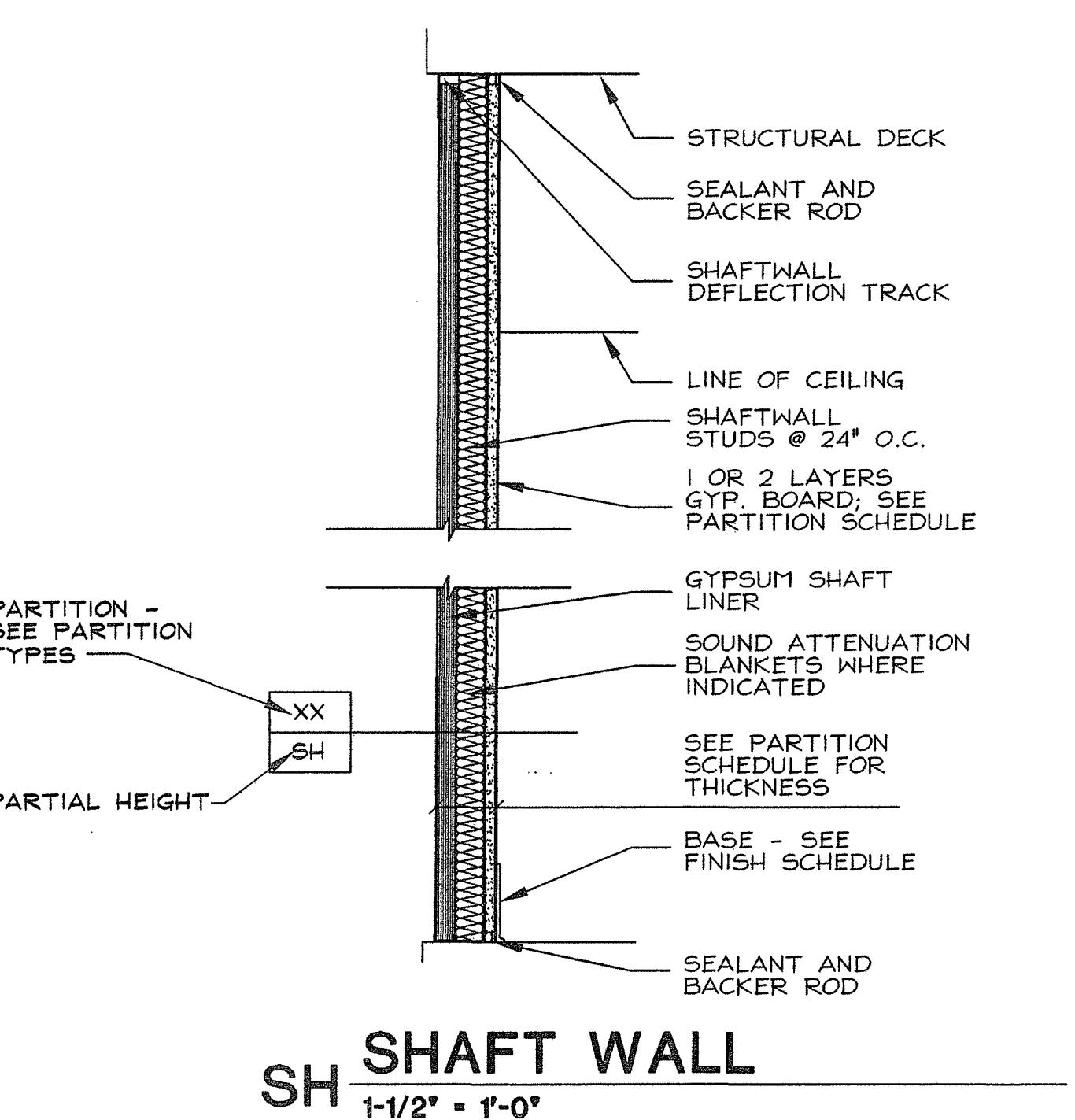
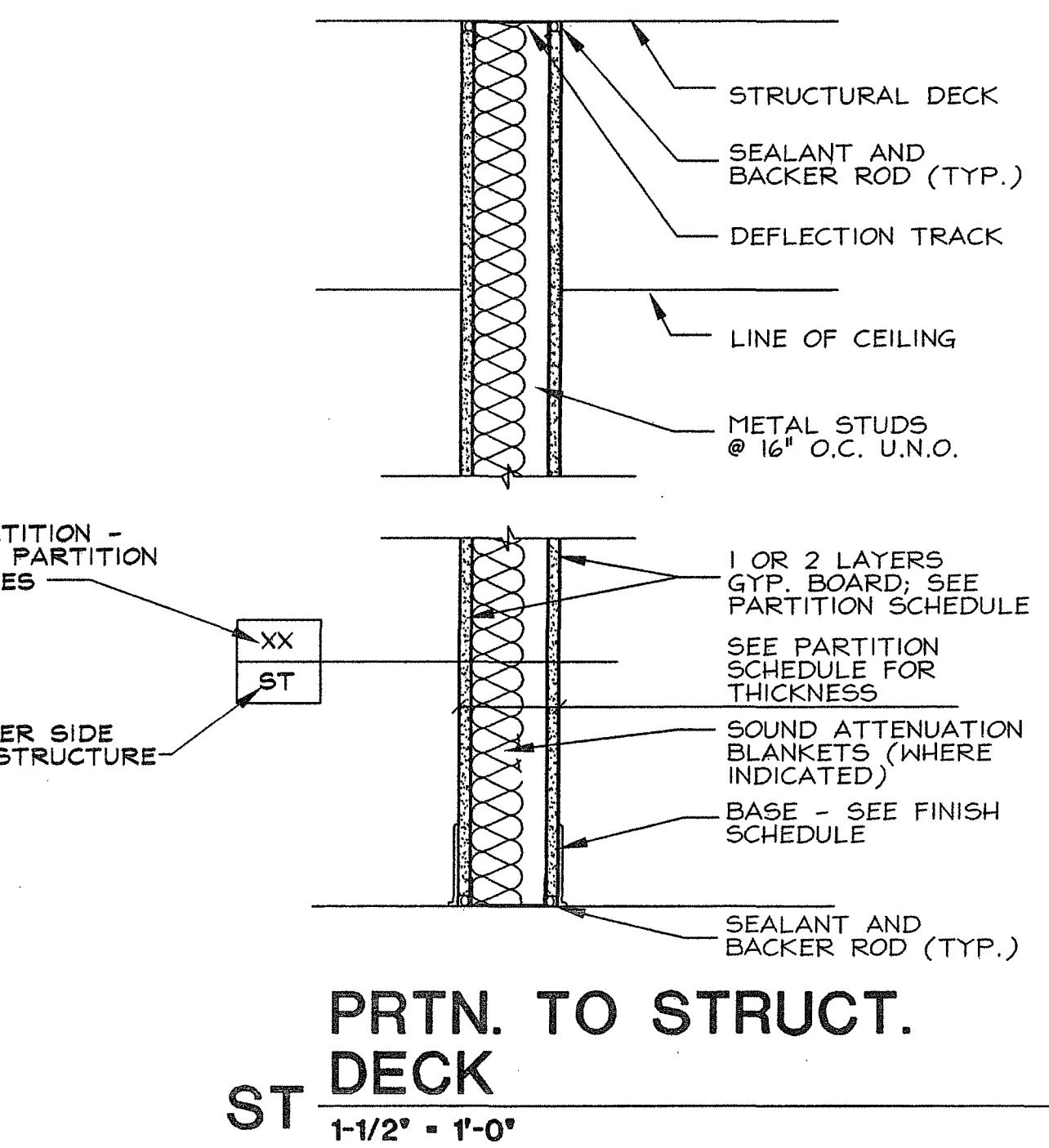
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## PARTITION TYPES

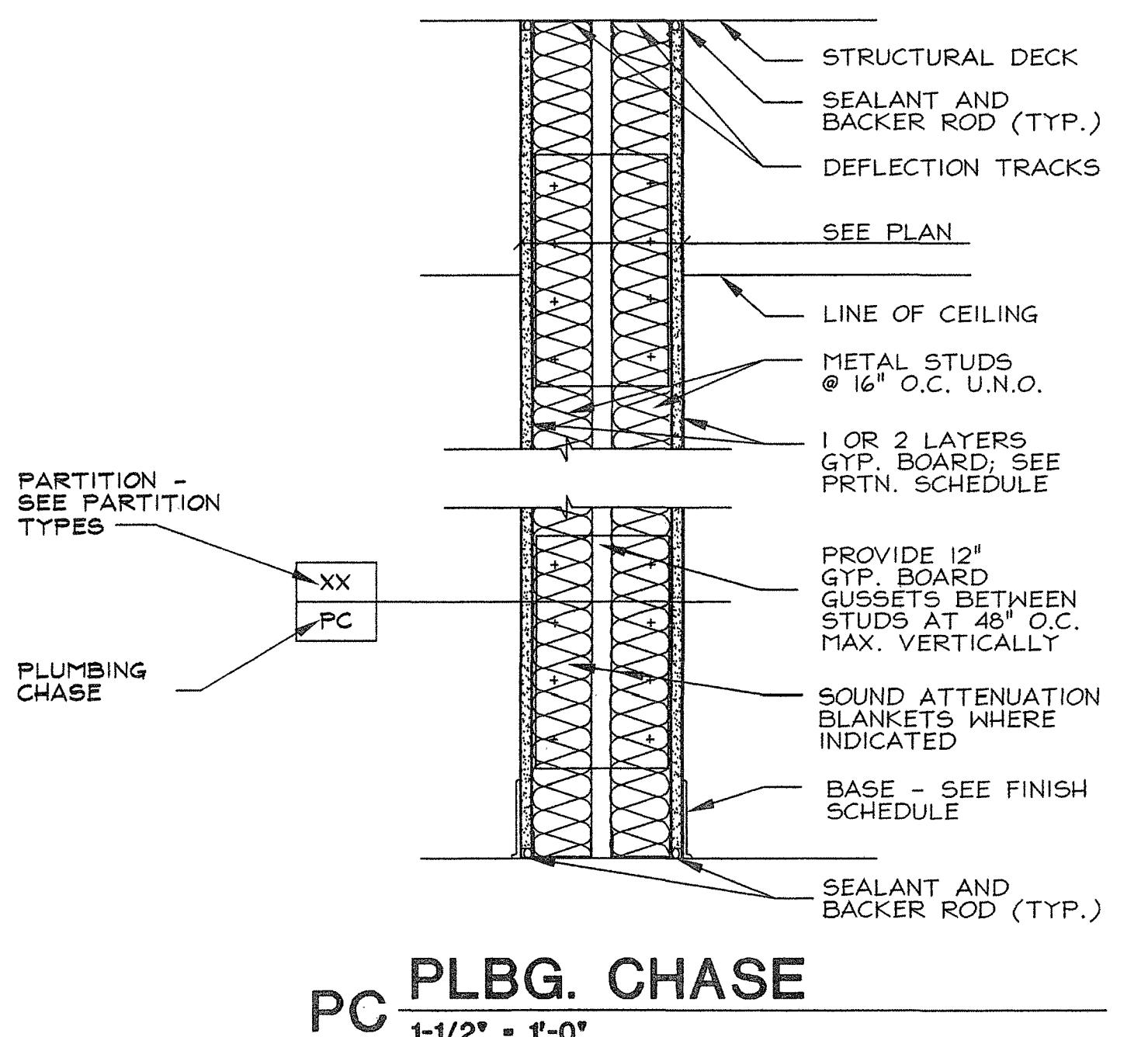
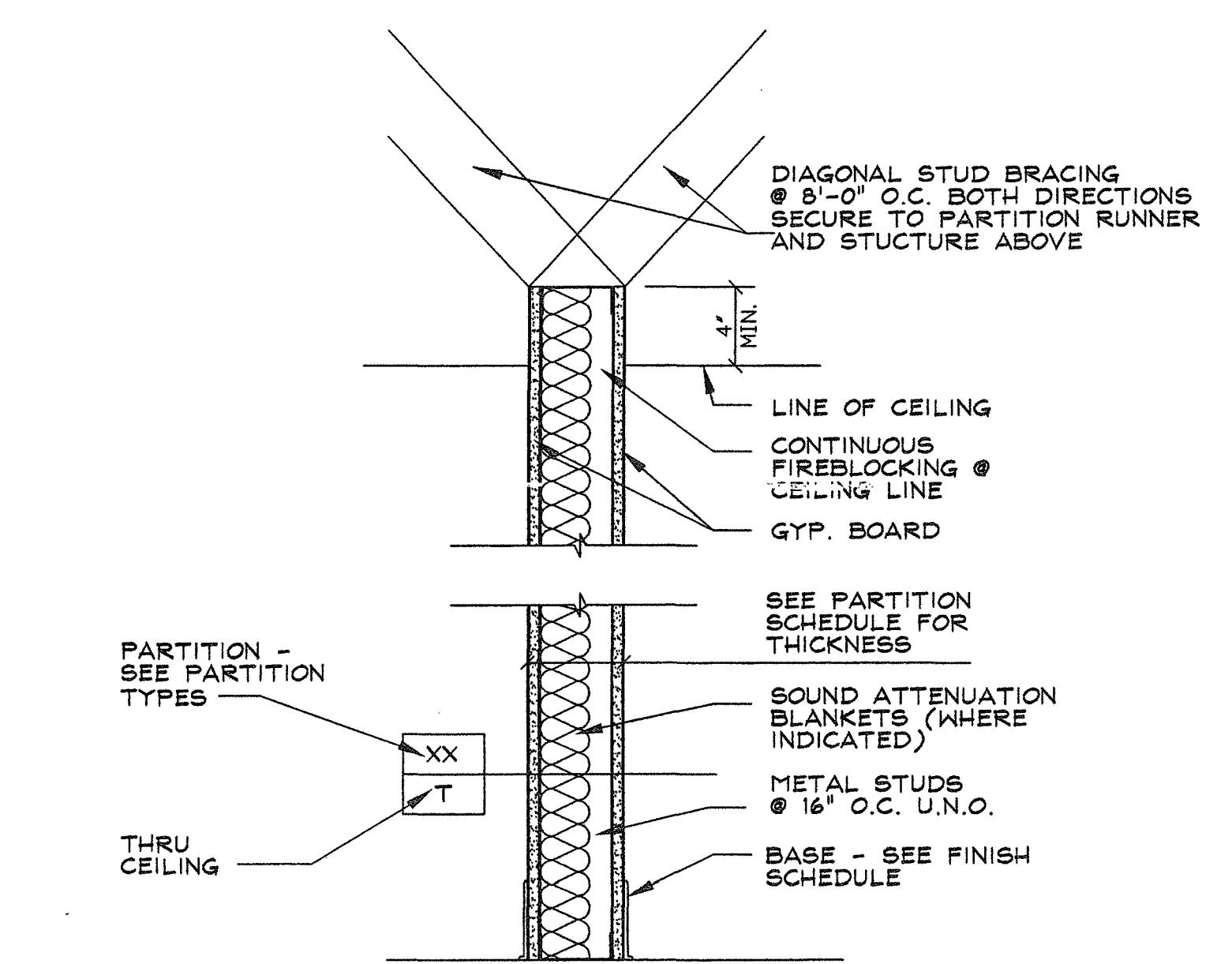


## PARTITION SECTIONS



## PARTITION NOTES

1. HEIGHTS OF PARTITION ELEMENTS ARE AS FOLLOWS: (SEE ALSO DETAIL REFERENCED.)  
 TC TO 4" ABOVE CEILING GRID.  
 TD TO STRUCTURAL DECK ABOVE.  
 UC TO UNDERSIDE OF CEILING GRID.  
 PART PARTIAL HEIGHT PARTITION.
2. PARTITION TYPE ASSEMBLIES WITH THE DESIGNATION SW (SOUND WALL) SHALL INCLUDE SOUND ATTENUATION BLANKETS, AS INDICATED ON PARTITION SECTIONS.
3. TEST NUMBERS ARE FOR UNDERWRITERS' LABORATORIES (UL) ASSEMBLIES U.N.O.
4. SEAL ALL PENETRATIONS OF FIRE-, SMOKE-, AND/OR SOUND-RATED PARTITIONS, & ALL PENETRATIONS OF CORRIDOR SIDE OF PARTITIONS DESIGNED TO RESIST PASSAGE OF SMOKE.
5. PROVIDE SOUND BATTs OF INDICATED THICKNESS ONLY WHERE PARTITION TAG SUBLETTER INDICATES SOUND BATTs
6. SEE [REFLECTED CEILING PLAN], [FLOOR PLAN], [FIRE PROTECTION PLAN] FOR LOCATIONS AND RATINGS OF SMOKE- AND FIRE-RATED PRTNs. REFERENCED TEST NUMBERS APPLY ONLY TO PARTITIONS INDICATED TO BE RATED (SEE ALSO GENERAL NOTE 3).
7. OFFSET STUDS 1" FROM FACE OF WALL OR COLUMN (WHERE OCCURS) U.N.O. ON PLAN.
8. PARTITION THICKNESS VARIES--SEE PLANS.



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PROJECT:  
ADDITION AND RENOVATIONS TO  
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PROJECT NO. 01403 SHEET NO.

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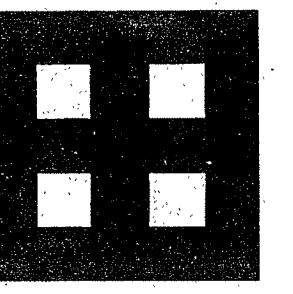
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A0.02





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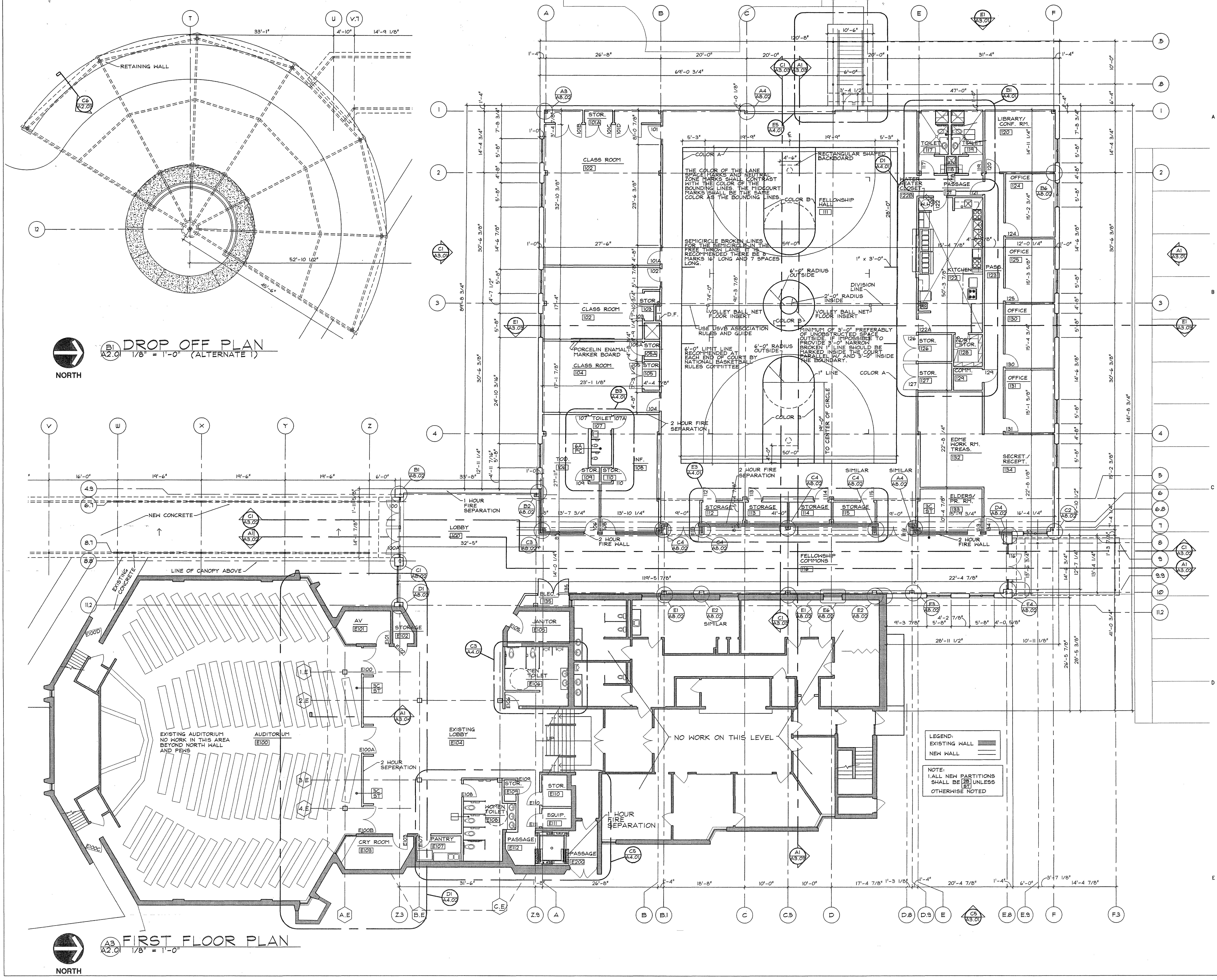
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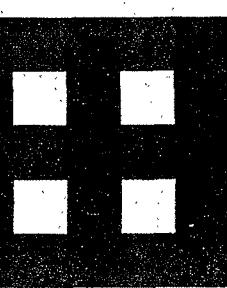
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A2.01





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DATE: NOVEMBER 1, 2002

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(E1) **SOUTH PICK-UP ROOF PLAN**  
(ALTERNATE #1)

NORTH



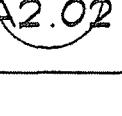
A2.02 1/8" = 1'-0"

NOTE  
1. ALL NEW PARTITIONS SHALL BE  
2. UNLESS OTHERWISE NOTED.

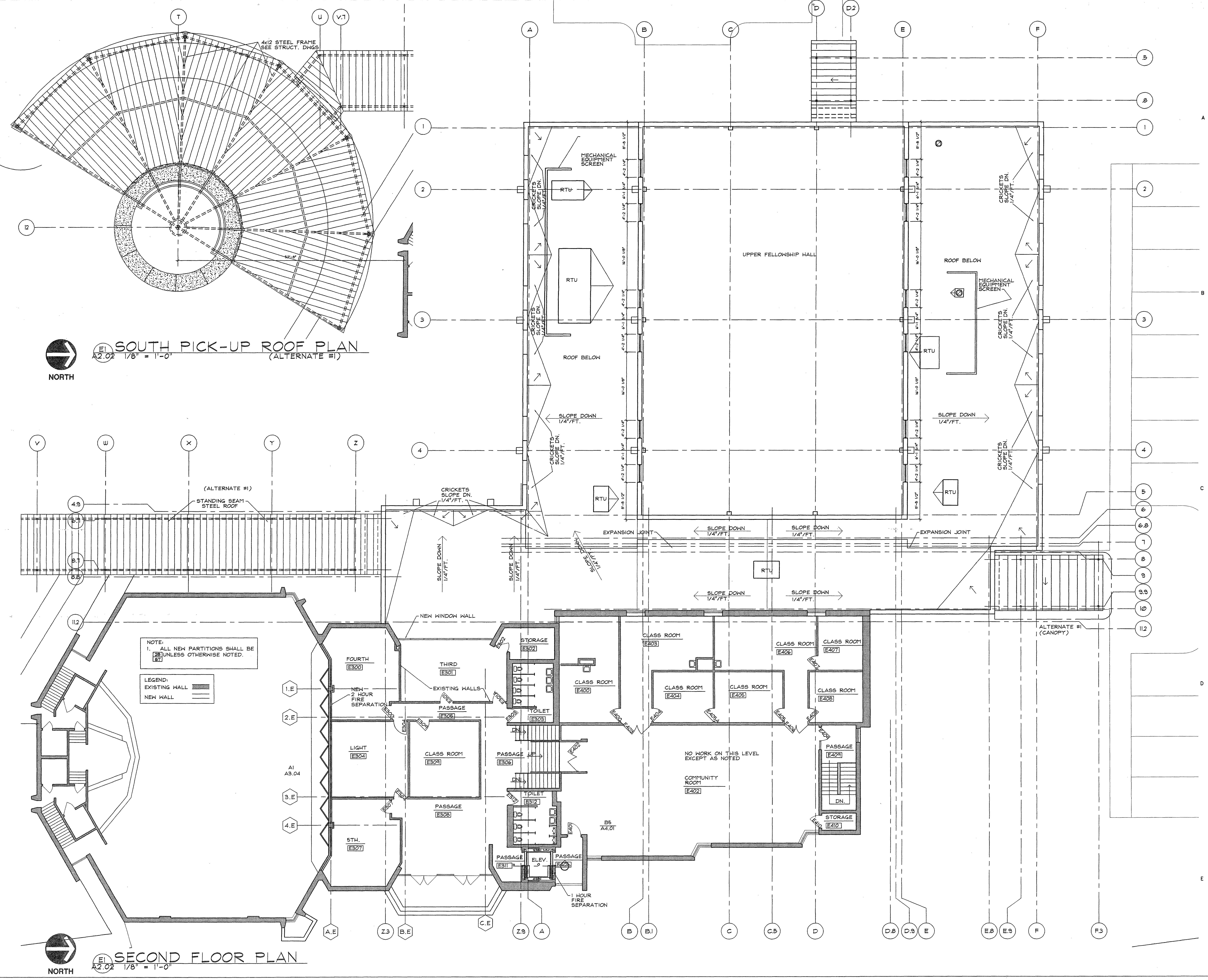
LEGEND:  
EXISTING WALL —————  
NEW WALL ————

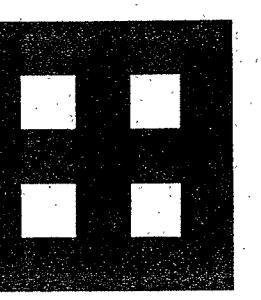
(E1) **SECOND FLOOR PLAN**

NORTH



A2.02 1/8" = 1'-0"





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
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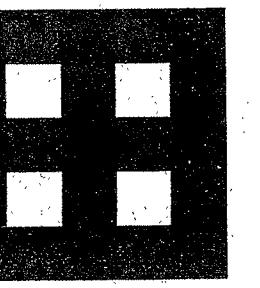
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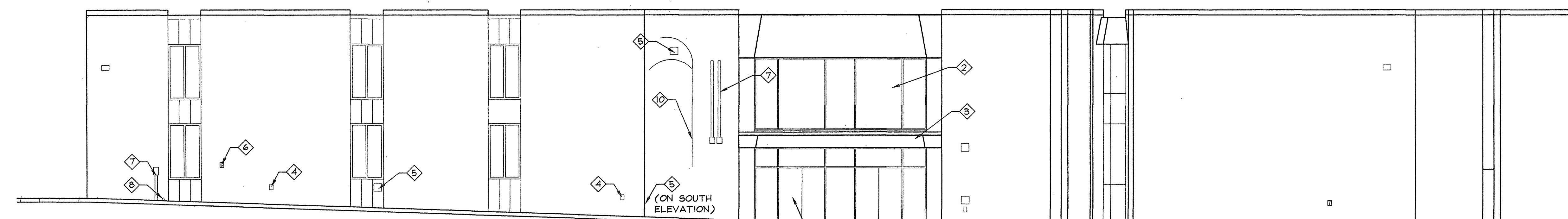
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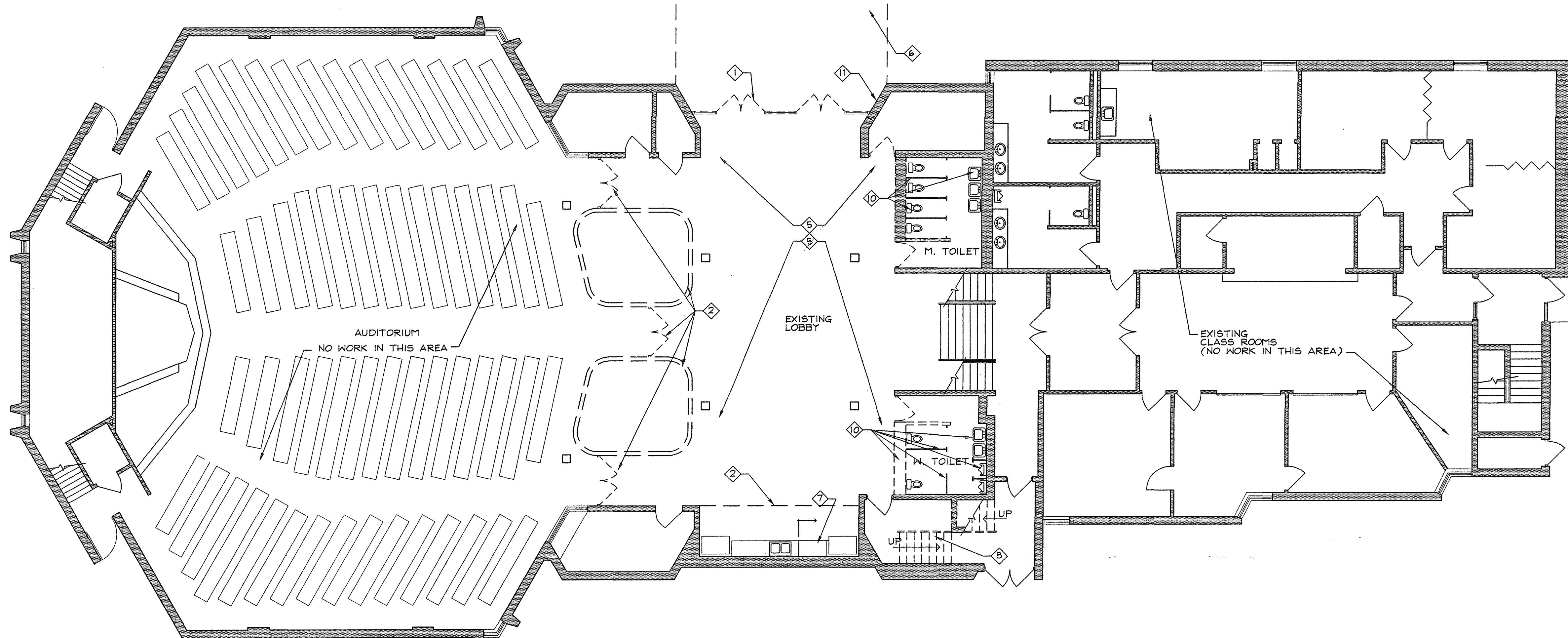
**WEST DEMOLITION ELEVATION**

A1

3.00

1/8" = 1'-0"

- DEMOLITION NOTES:**
1. REMOVE EXISTING DOOR, FRAMES, SIDELIGHTS AND TRANSOMS.
  2. REMOVE EXISTING WINDOW.
  3. REMOVE EXISTING CANOPY. (SEE PLAN)
  4. REMOVE EXISTING HOSE BIB
  5. REMOVE EXISTING VENT
  6. REMOVE EXISTING WP DUPLEX ELECTRICAL OUTLET
  7. REMOVE EXISTING CONDUIT BOX AND CONDUIT
  8. REMOVE EXISTING CAST IRON DRAIN PIPE
  9. REMOVE EXISTING LIGHT FIXTURE
  10. REMOVE EXISTING COMMUNICATIONS CABLE

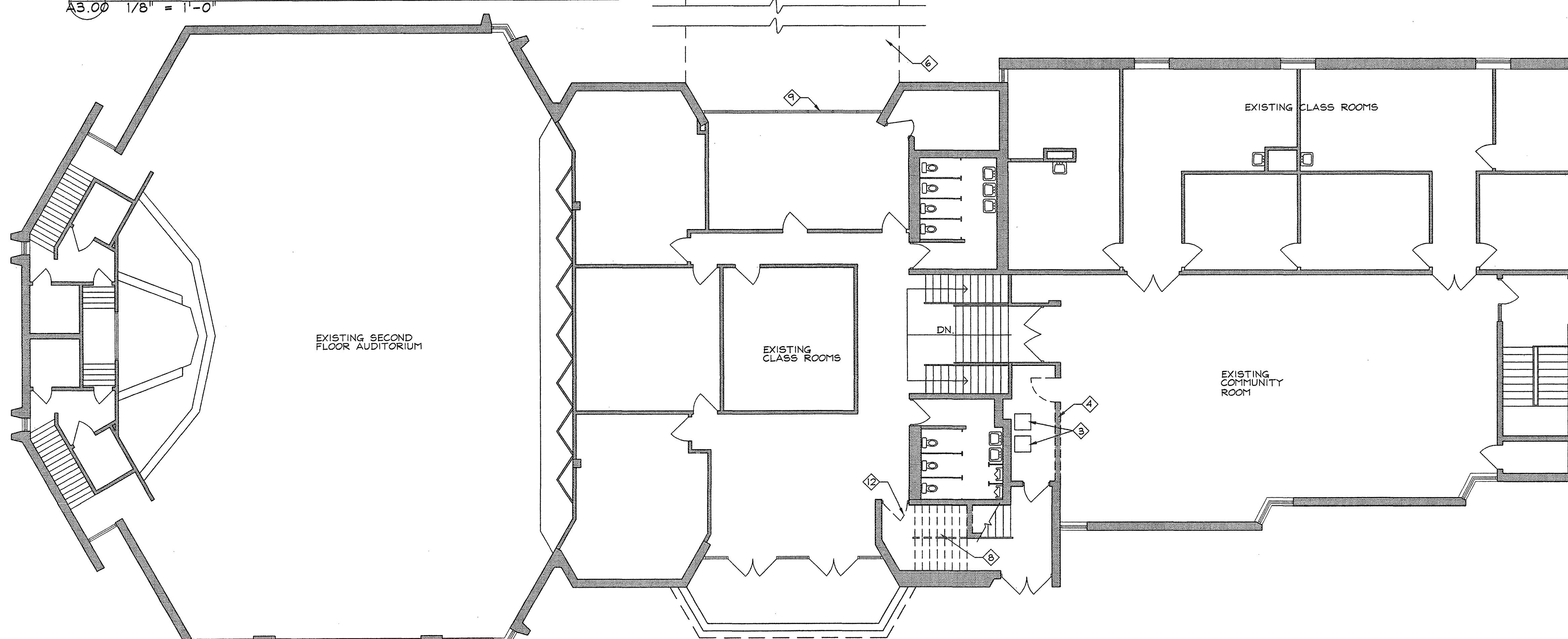


**FIRST FLOOR DEMOLITION PLAN**

B2

3.00

1/8" = 1'-0"



**SECOND FLOOR DEMOLITION PLAN**

D2

3.00

1/8" = 1'-0"

- DEMOLITION NOTES:**
1. REMOVE EXISTING DOOR, FRAMES, AND GLASS SIDELIGHTS.
  2. REMOVE EXISTING FOLDING PARTITIONS AND DOORS. (SEE HVAC DRAWINGS)
  3. REMOVE EXISTING HVAC EQUIPMENT.
  4. REMOVE EXISTING WALLS, DOORS, AND SINKS (SEE PLUMBING).
  5. REMOVE EXISTING FLOORING. (BY OWNER)
  6. REMOVE EXISTING CANOPY.
  7. REMOVE EXISTING CABINETS. (BY OWNER)
  8. REMOVE STEEL STAIR AND CONCRETE WALL AS REQUIRED FOR ELEVATOR ERECTION.
  9. REMOVE EXISTING WINDOW
  10. REMOVE EXISTING WATER AND PLUMBING INCLUDING TOWER PARTITIONS
  11. REMOVE MASONRY FOR NEW DOOR
  12. REMOVE EXISTING DOOR AND FRAME

**LEGEND**

EXISTING WALL TO REMAIN	=====
EXISTING WALL REMOVED	====

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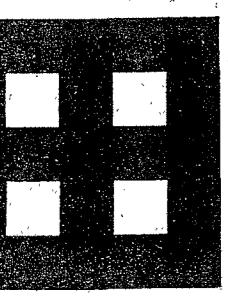
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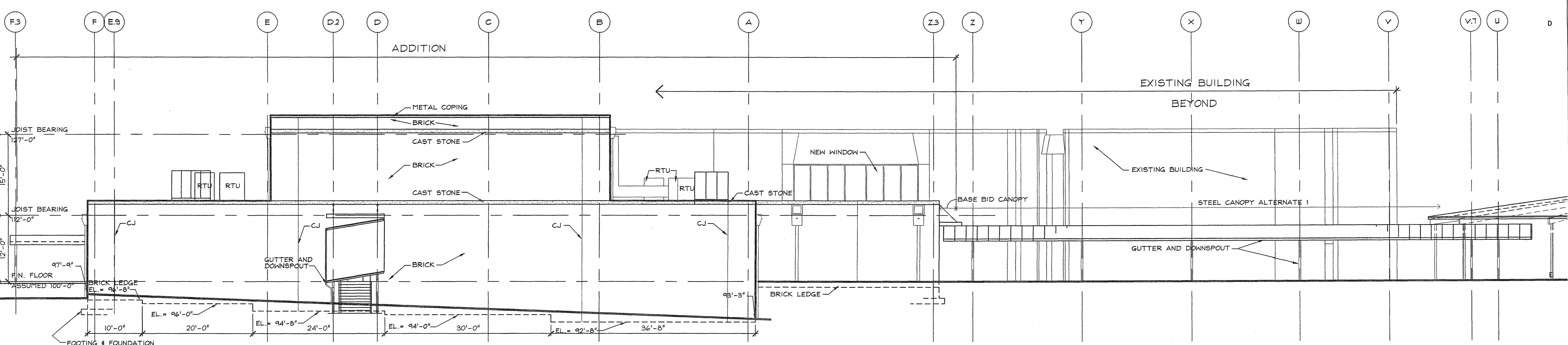
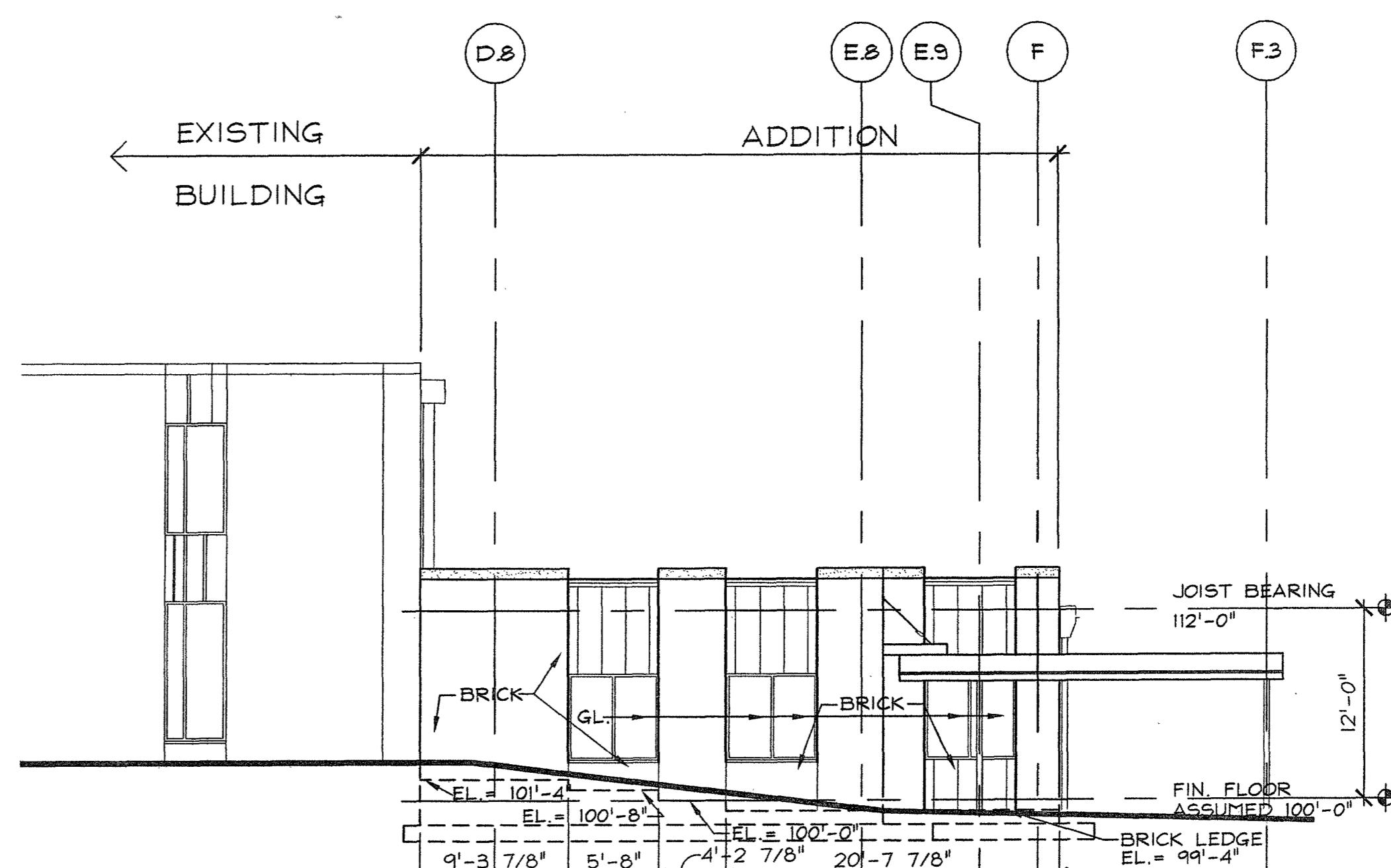
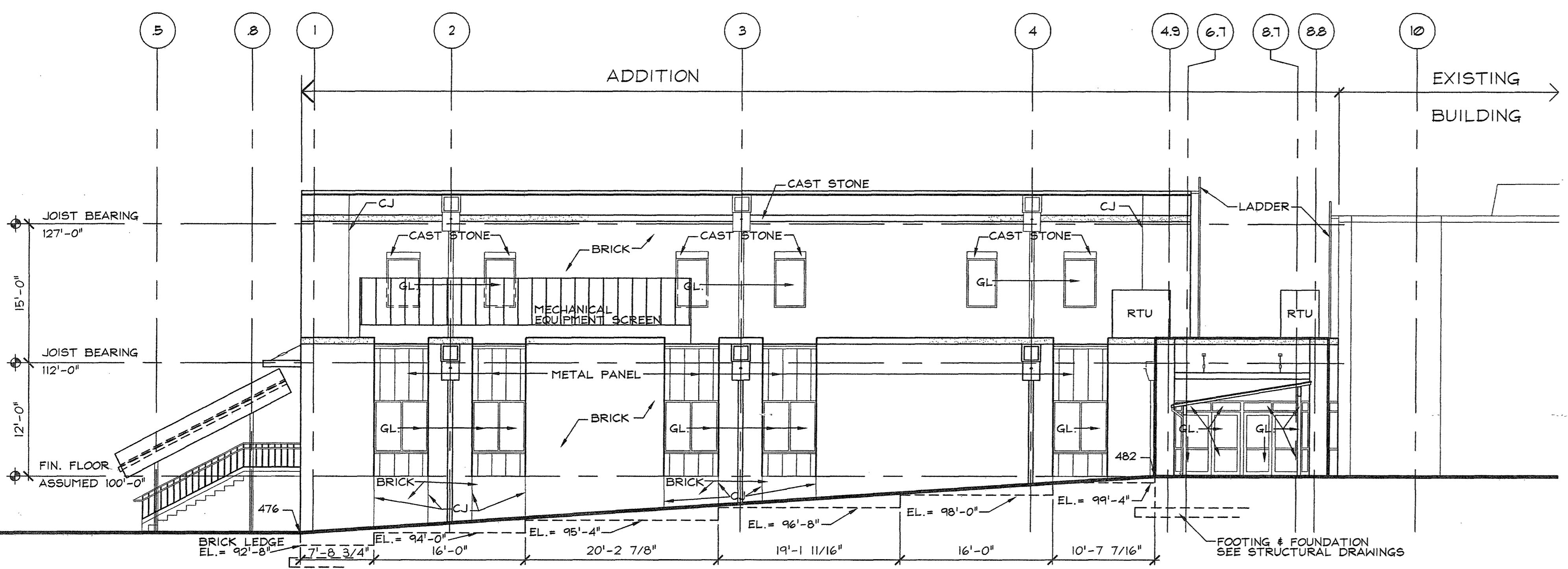
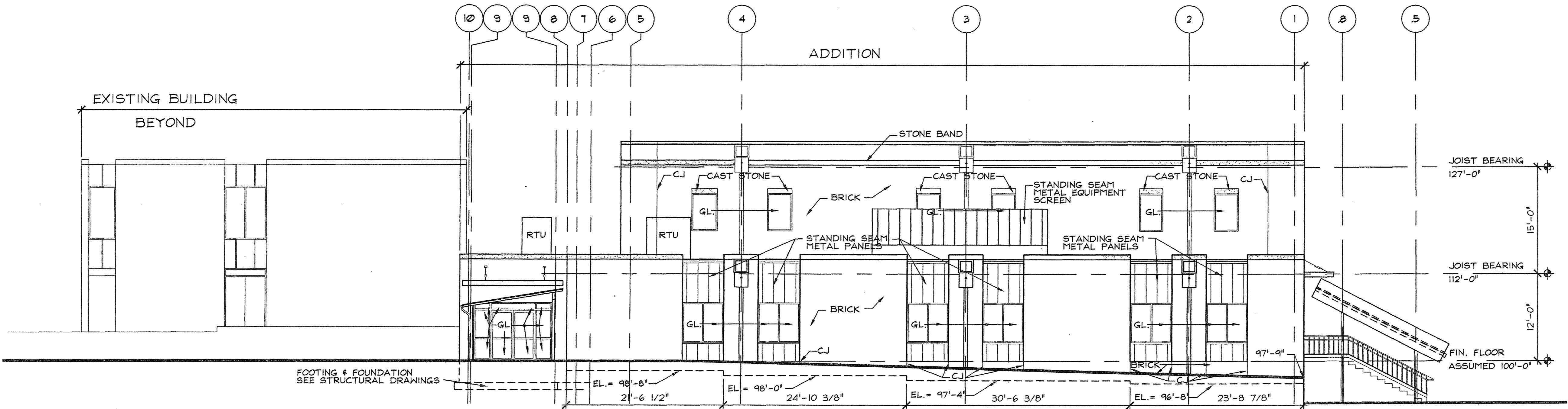
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**PROJECT:  
ADDITION AND RENOVATIONS TO  
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**A3.01**

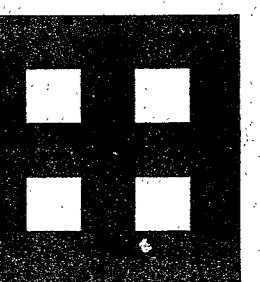
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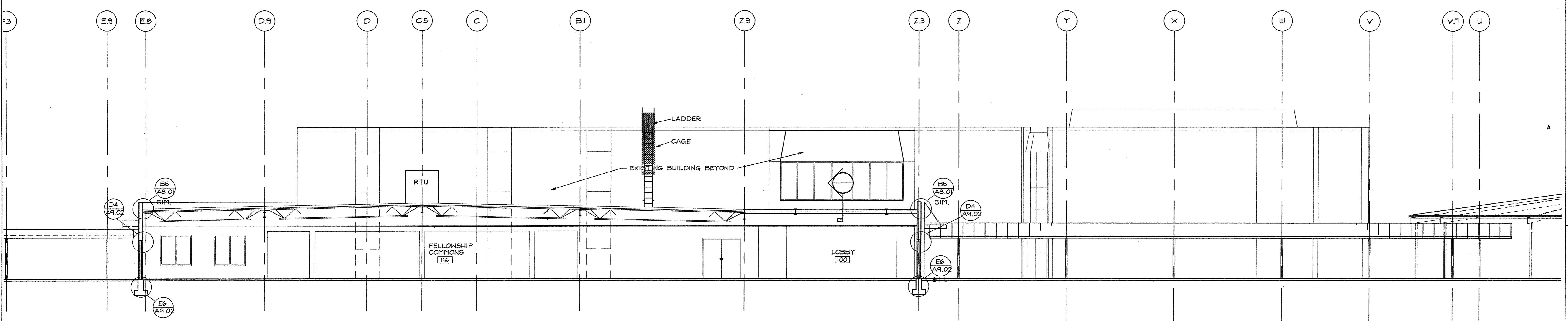
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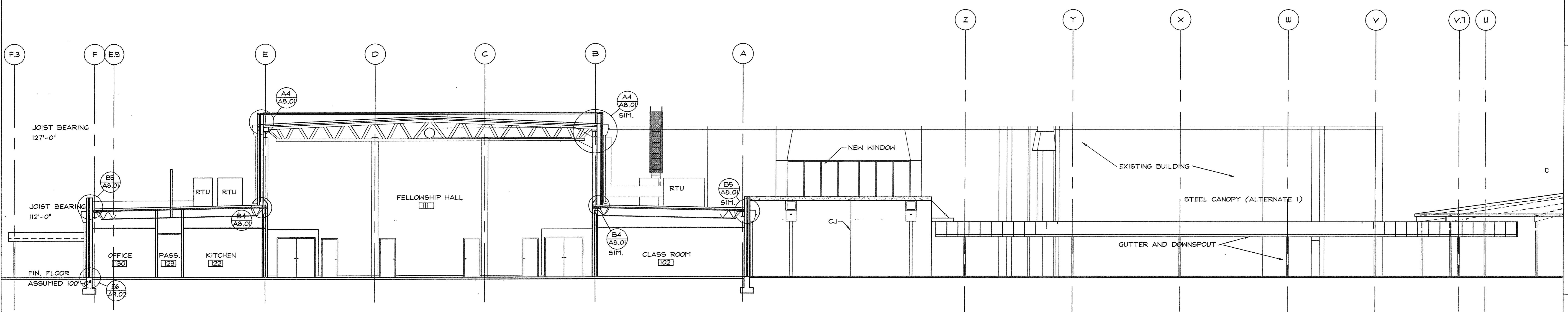
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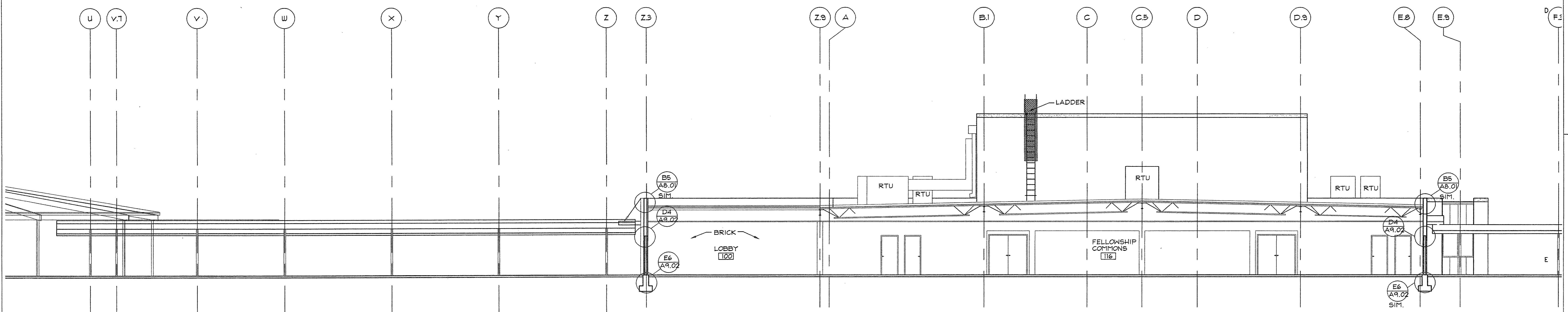
PROJECT:  
ADDITION AND RENOVATIONS TO  
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A1 BUILDING SECTION THRU FELLOWSHIP COMMONS LOOKING EAST  
A3.02 1/8" = 1'-0"



C1 BUILDING SECTION THRU FELLOWSHIP HALL LOOKING EAST  
A3.02 1/8" = 1'-0"



E1 BUILDING SECTION THRU FELLOWSHIP COMMONS LOOKING WEST  
A3.02 1/8" = 1'-0"

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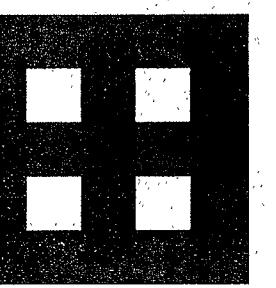
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NO.	DATE	REVISIONS
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PROJECT NO. 01403 SHEET NO. A3.02

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PROJECT: ADDITION AND RENOVATIONS TO

# Mcknight Road

Church of Christ

2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124

PROJECT NO. 01403 SHEET NO.

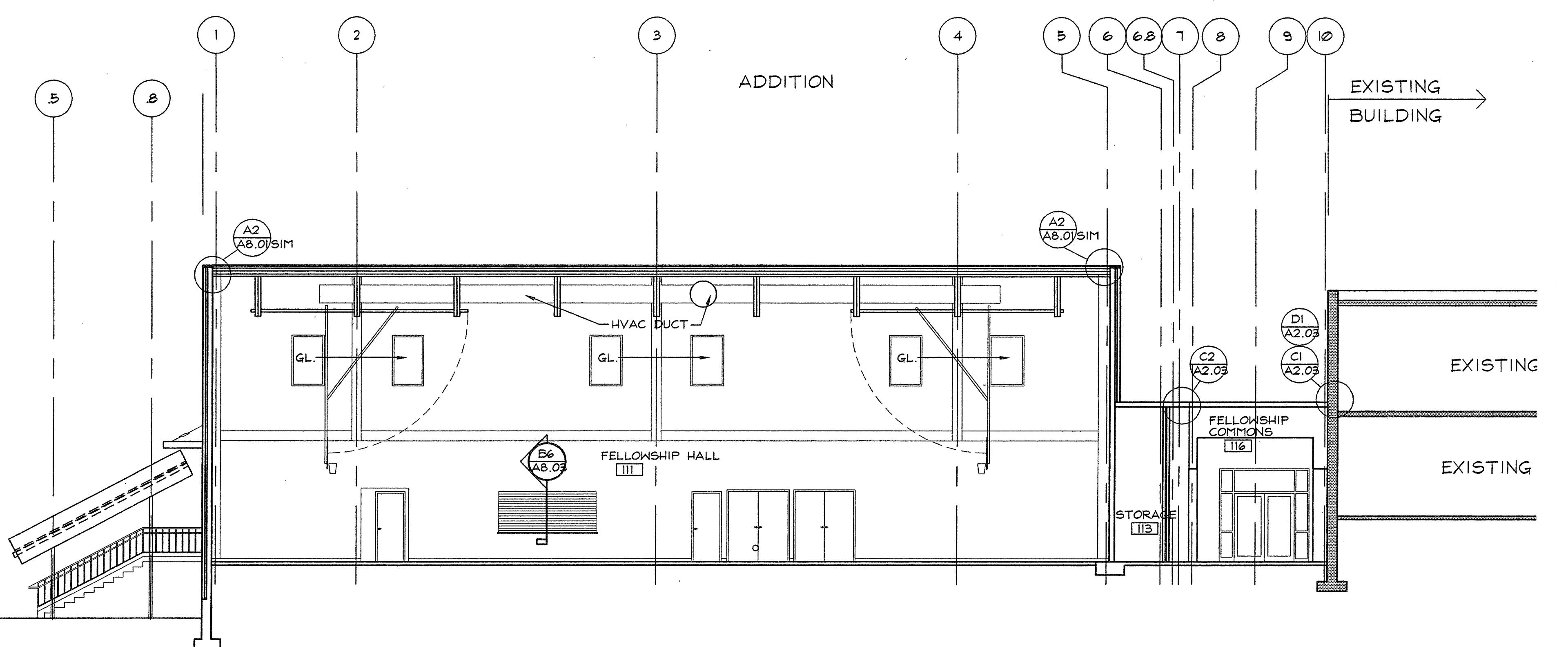
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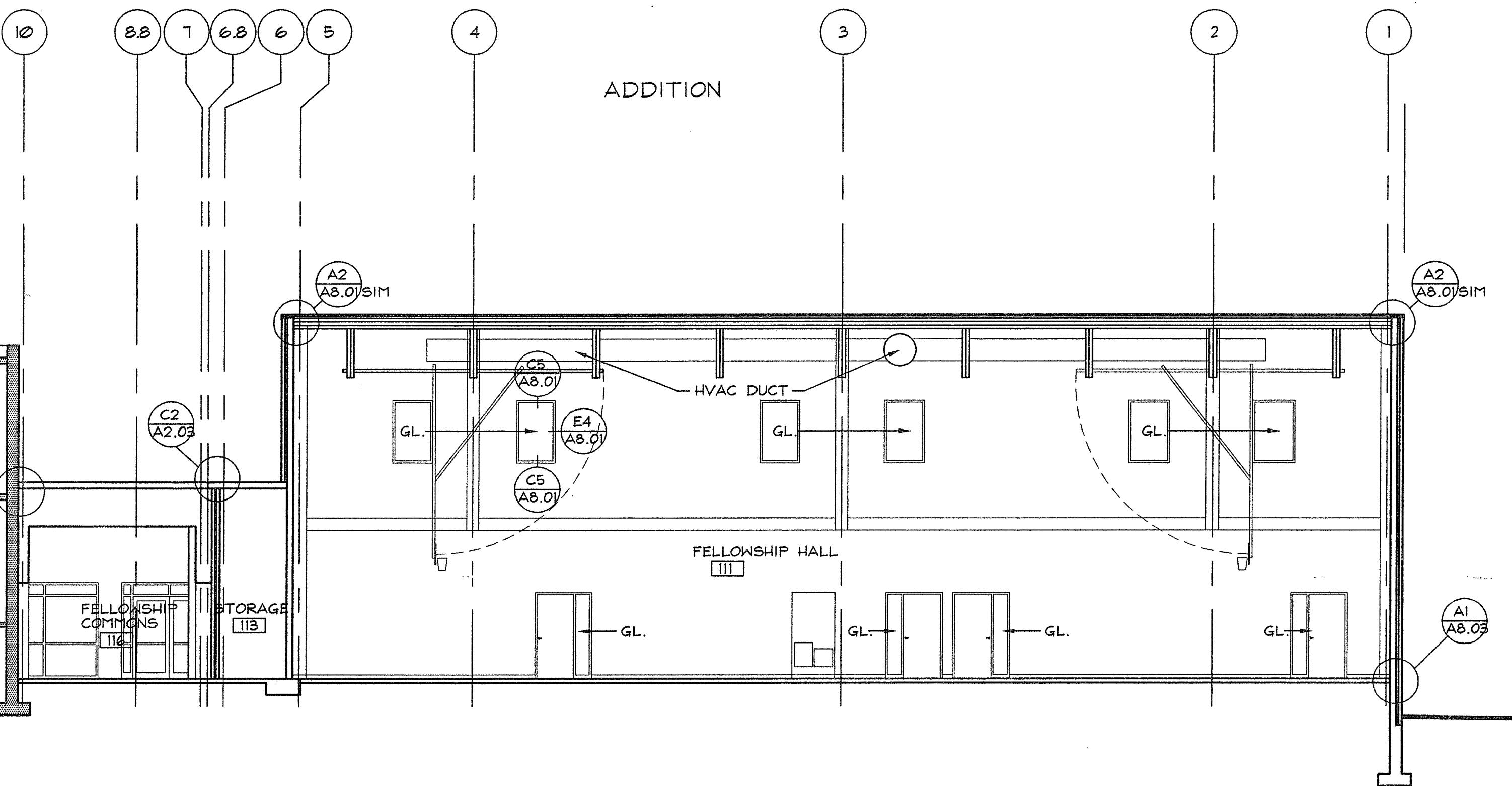
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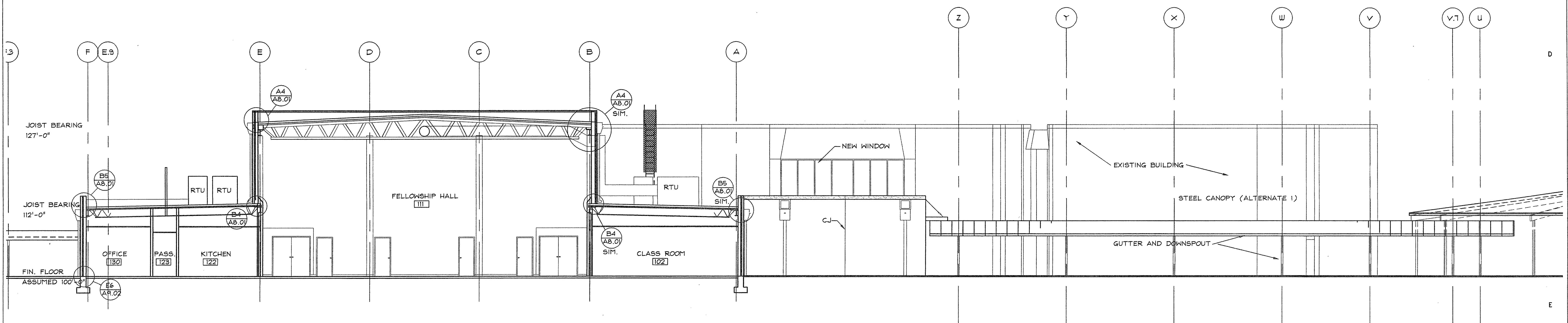
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(A) BUILDING SECTION THRU FELLOWSHIP HALL LOOKING NORTH  
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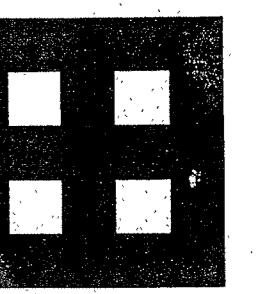


(C) BUILDING SECTION THRU FELLOWSHIP HALL LOOKING SOUTH  
A3.03 1/8" = 1'-0"



(E) BUILDING SECTION THRU FELLOWSHIP HALL LOOKING EAST  
A3.03 1/8" = 1'-0"

A3.03



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FAX: (314) 969-1906

**PROJECT: ADDITION AND RENOVATIONS TO  
McKnight Road  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124**

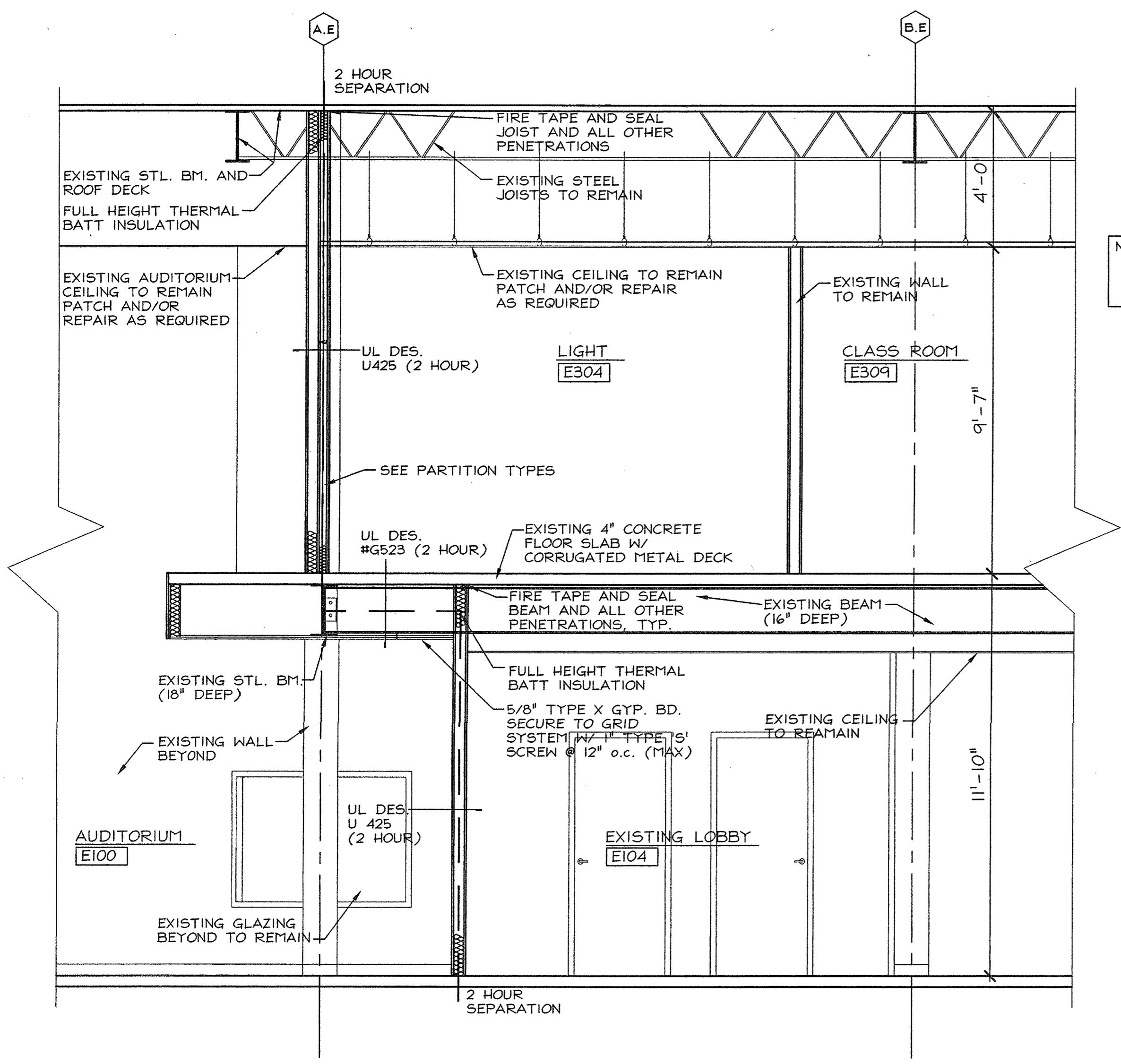
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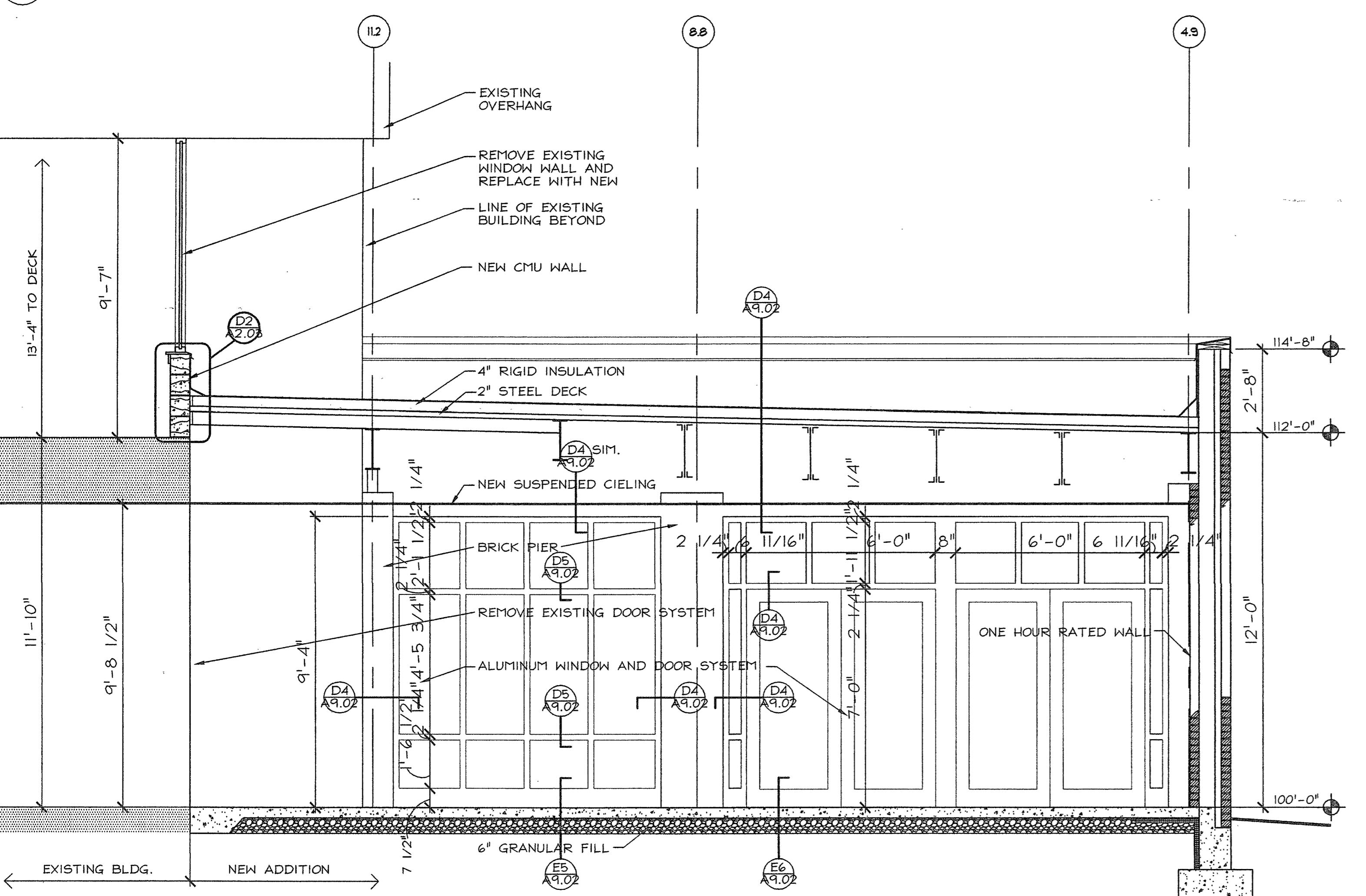
NO	DATE	REVISIONS
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DATE:  
NOVEMBER 1, 2002

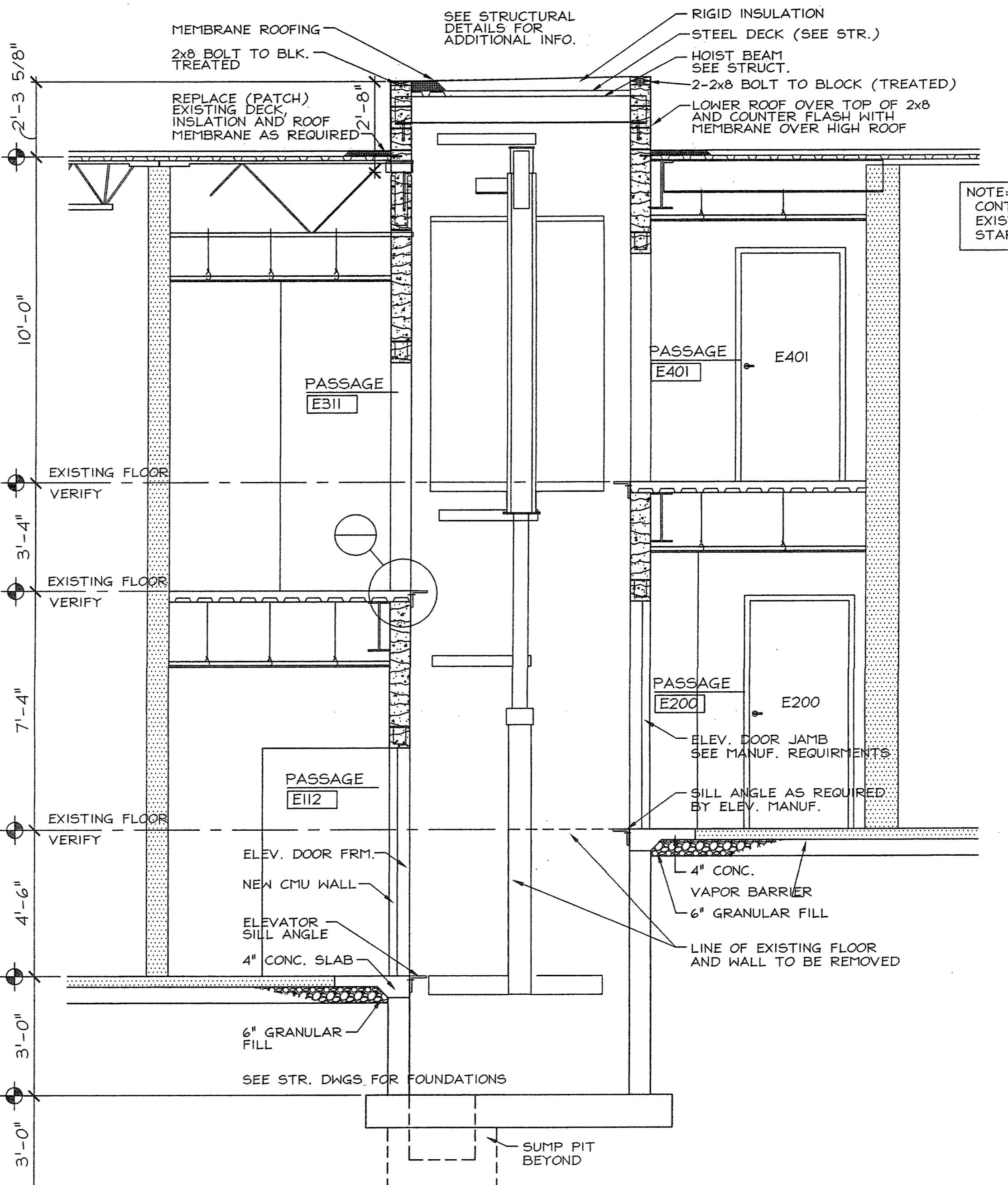
CONSTRUCTION/BID DRAWINGS



**SECTION THRU AUDITORIUM**



**SECTION THRU LOBBY**



**SECTION THRU ELEVATOR**

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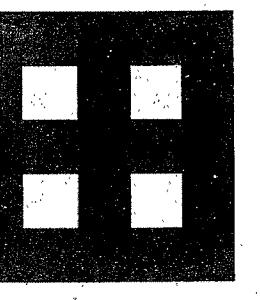
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**A3.04**



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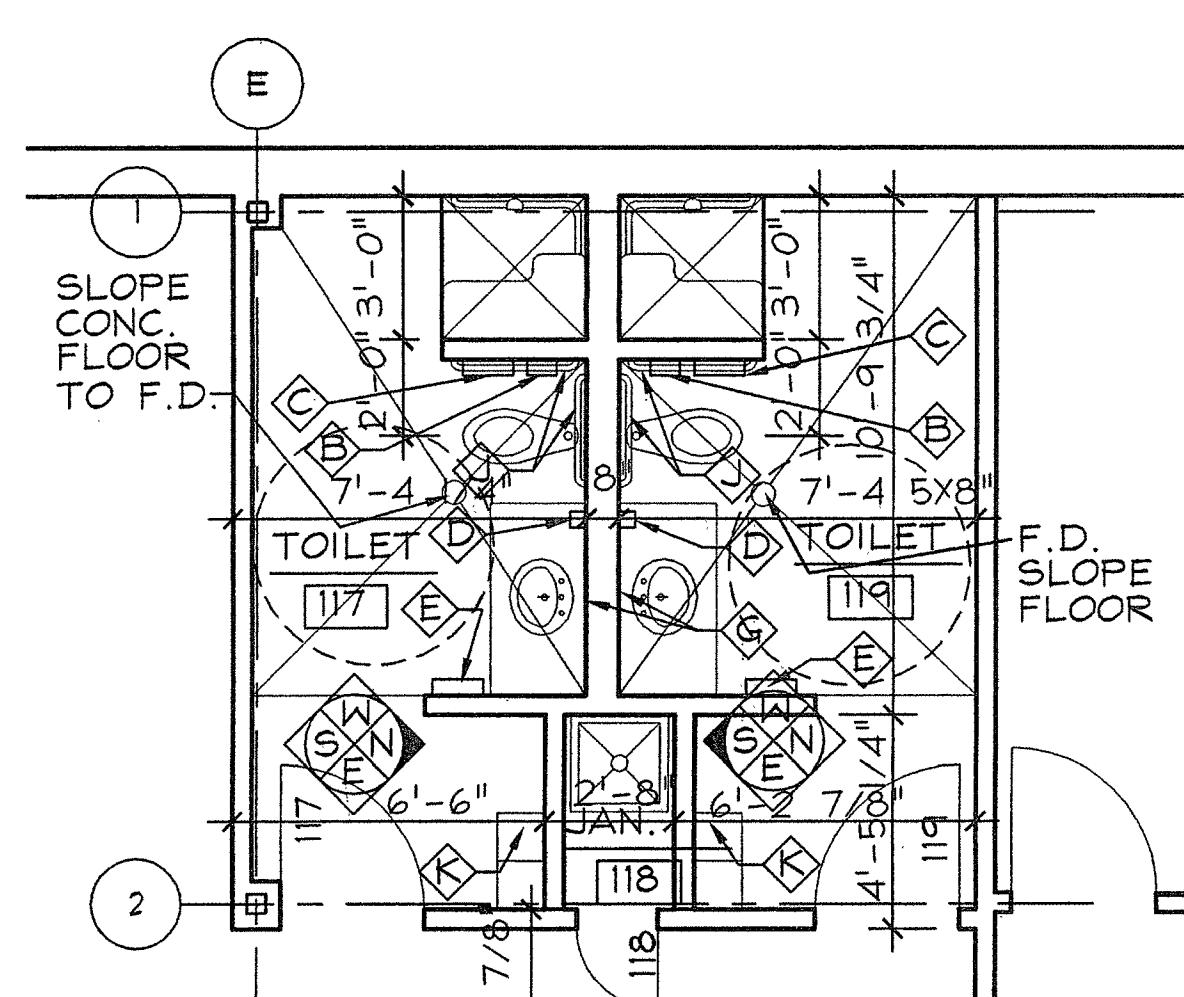
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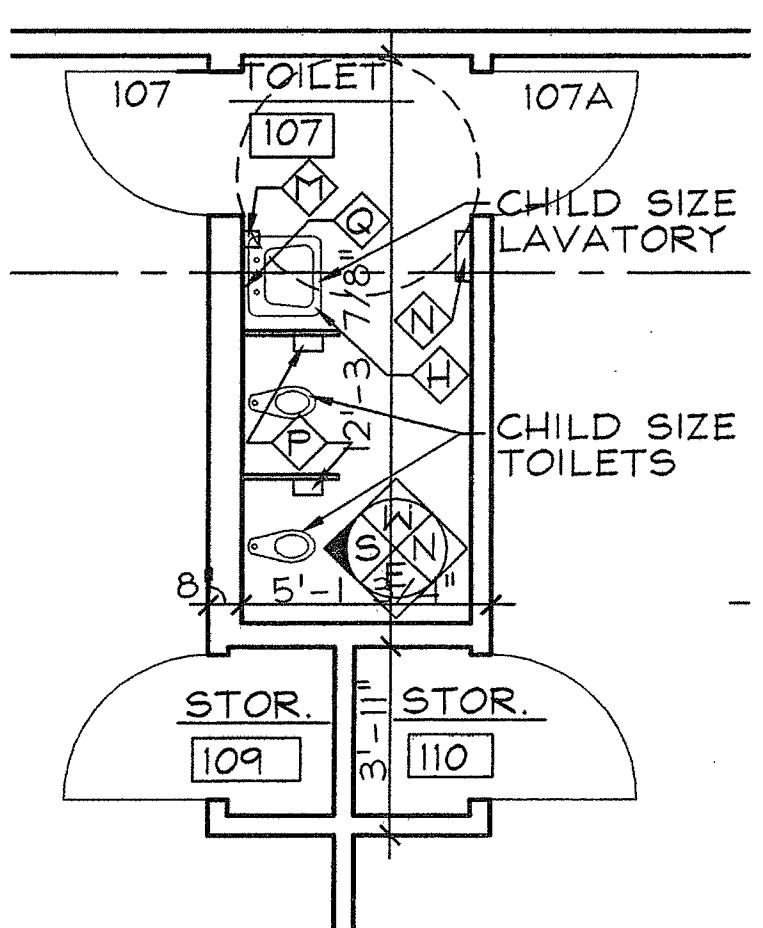
# PROJECT: ADDITION AND RENOVATIONS TO **McKnight Road** Church of Christ 2515 SOUTH MCKNIGHT ROAD ST. LOUIS, MO 63124

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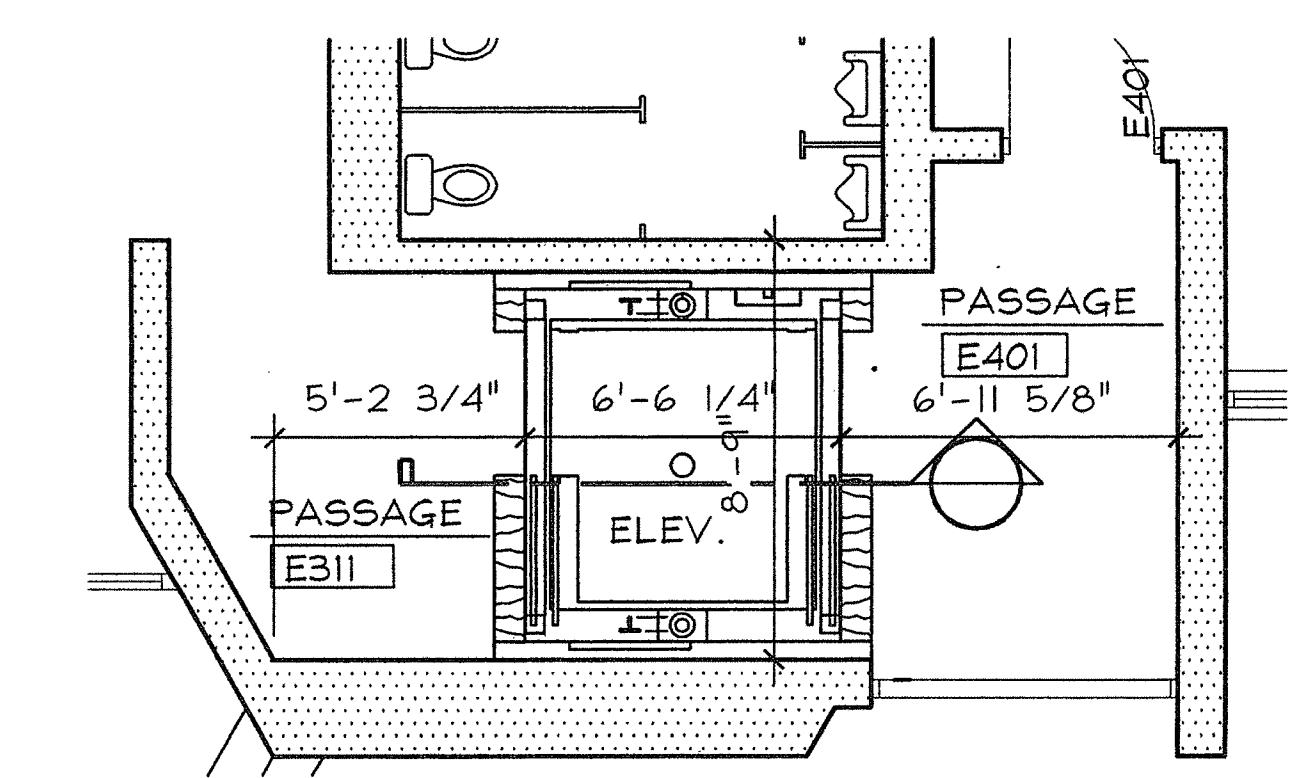
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ENLARGED TOILET ROOM PLAN



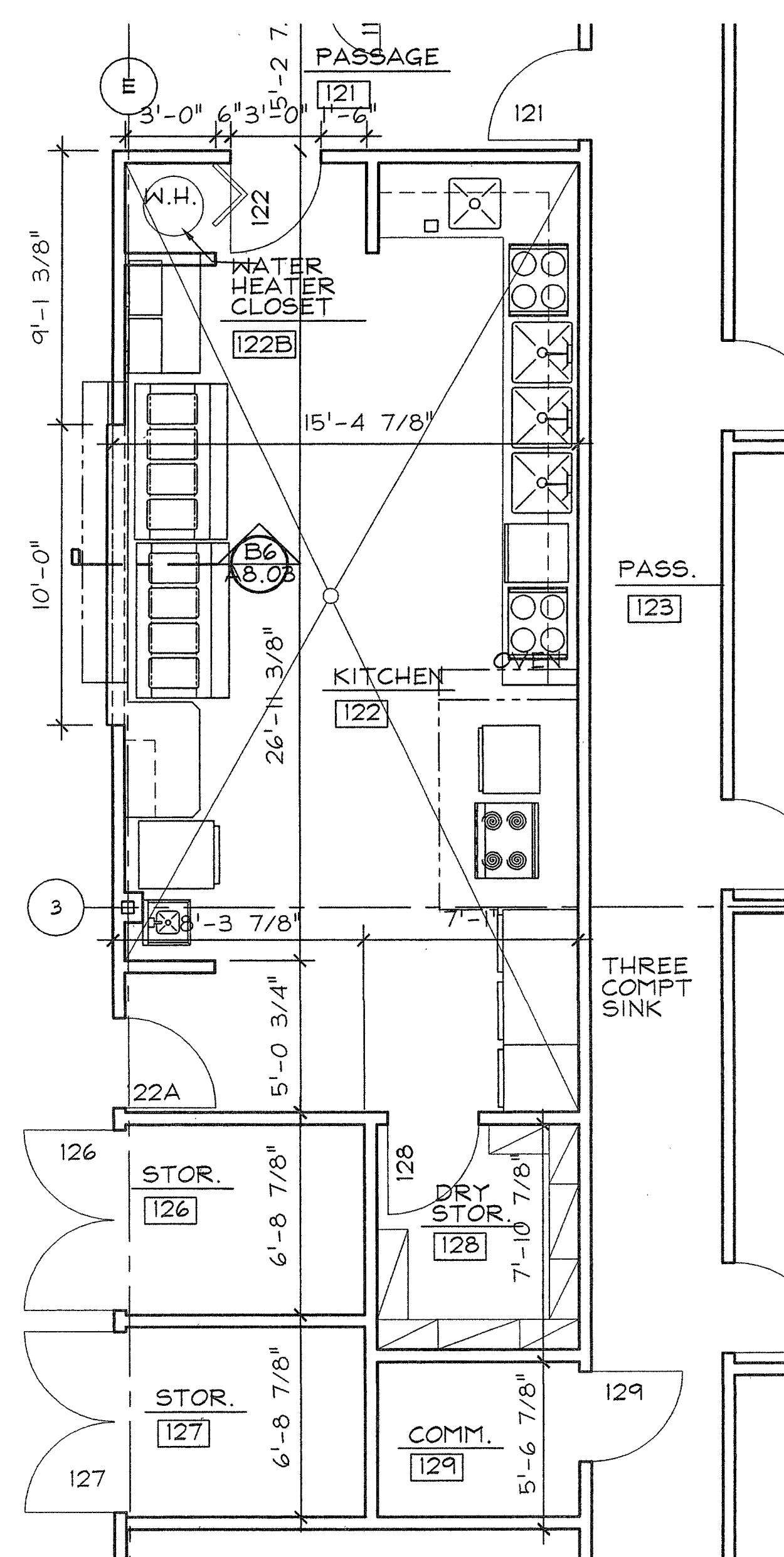
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ENLARGED TOILET ROOM PLAN



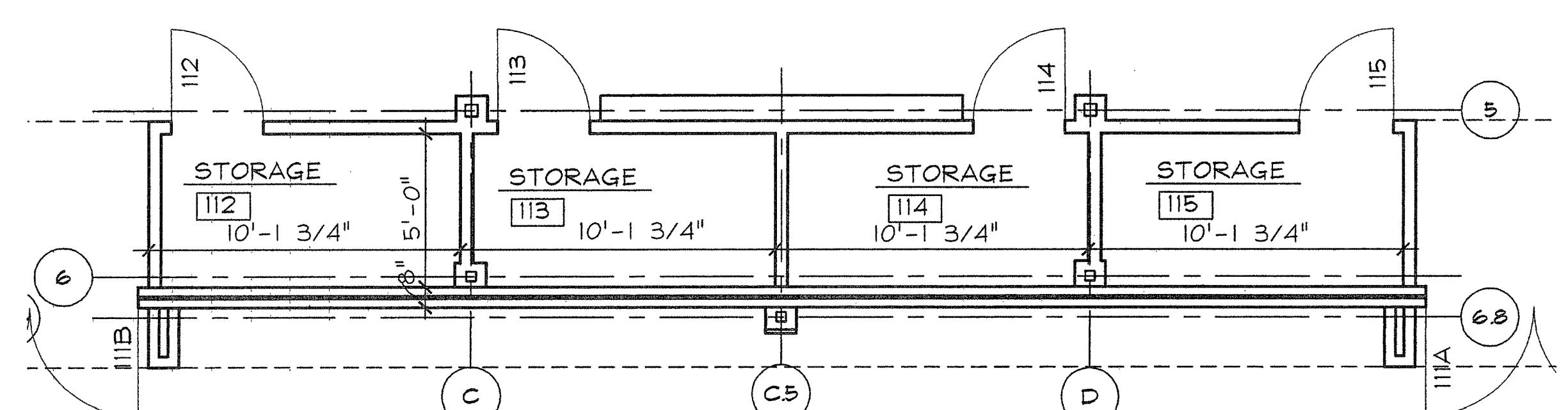
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ENLARGED ELEVATOR PLAN



(D1)  
A4.0 1/4" = 1'-0"

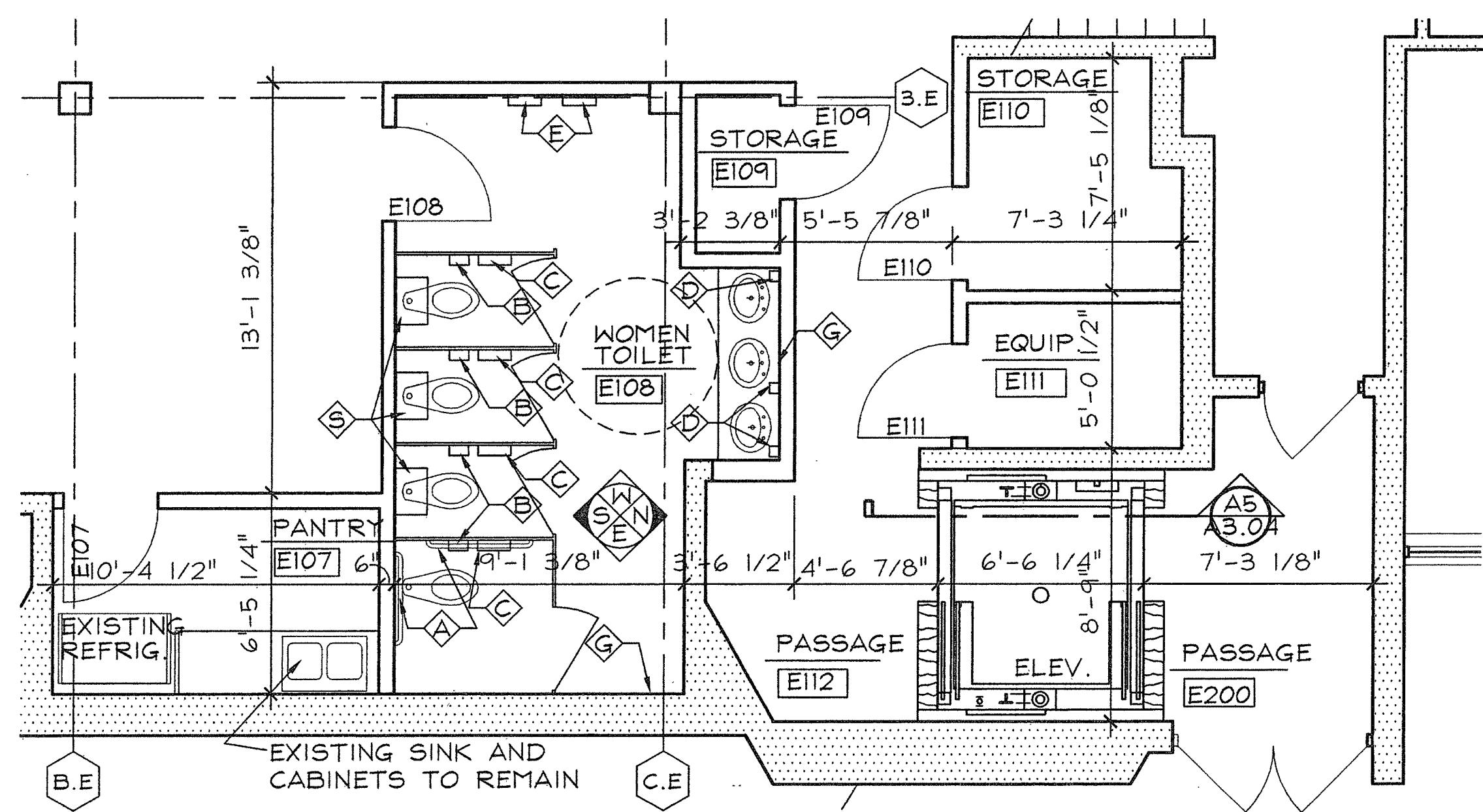
ENLARGED KITCHEN/ STOR. PLAN



(E3)  
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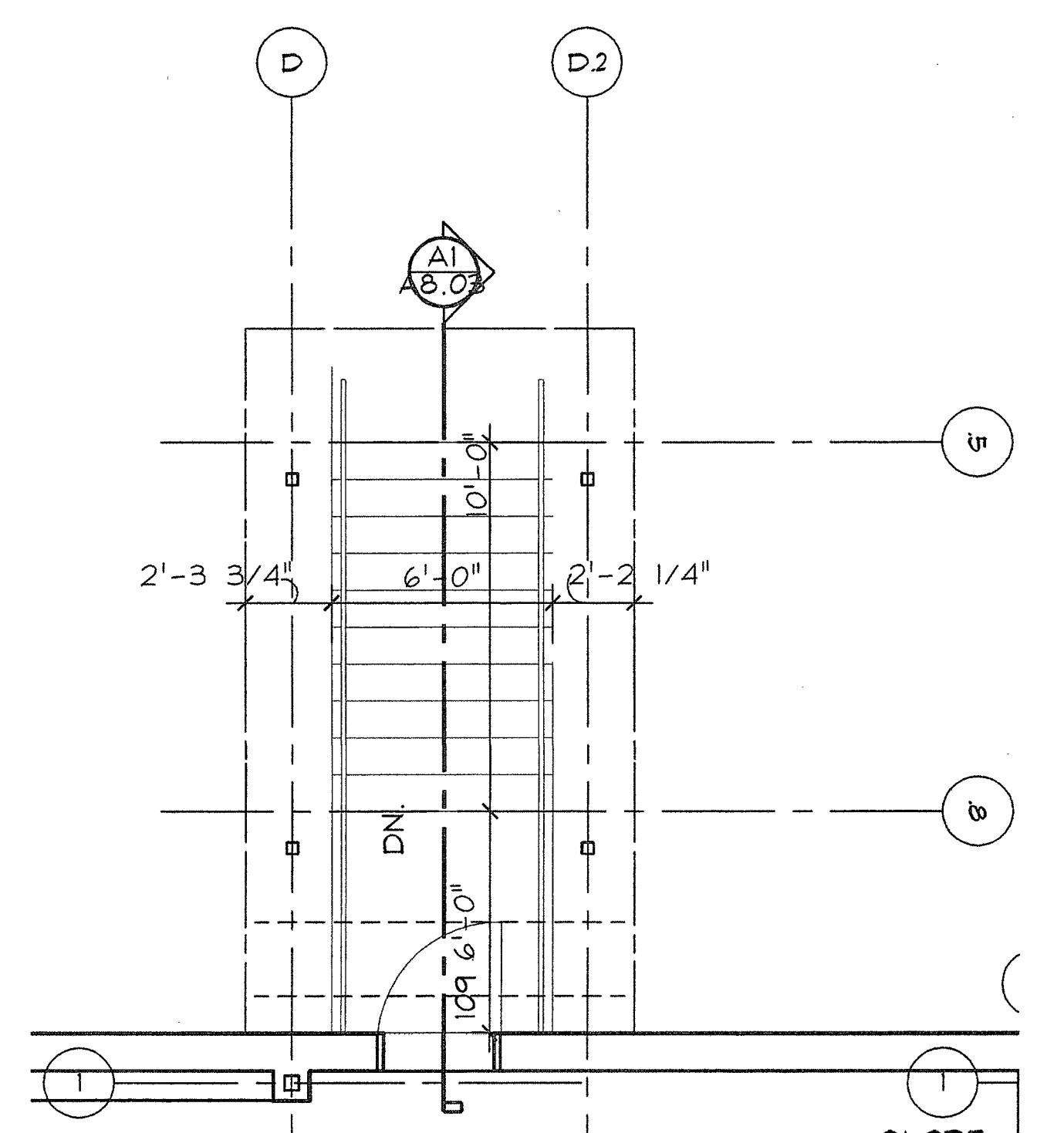
FELLOWSHIP HALL STORAGE PLAN

TOILET ACCESSORIES		REMARKS
A	36" GRAB BAR	CENTER @ 3'-0" AFF
B	24" FAUCET DISPENSER	BTM. @ 1'-6" AFF
C	FEMININE NAPKIN DISPOSAL	BTM. @ 1'-4 1/2" AFF
D	SOAP DISPENSER	
E	TOILET DISPENSER	
F	MIRROR 18" X 36"	BTM. @ 3'-4" AFF
G	MIRROR 36" X 36"	BTM. @ 3'-4" AFF
H	SINK	TOP @ 2'-0" AFF
I	24" GRAB BAR	CENTER @ 3'-0" AFF
J	24" LOCKERS	
K	24" GRAB BAR	CENTER @ 2'-0" AFF
L	SOAP DISPENSER	BTM. @ 2'-3" AFF
M	TOILET DISPENSER	BTM. @ 2'-3" AFF
N	TOILET PAPER DISPENSER	BTM. @ 1'-0" AFF
O	MIRROR 18" X 36"	BTM. @ 2'-3" AFF
P	MIRROR 36" X 36"	BTM. @ 2'-3" AFF
Q	DRY STOR. 48" X 78"	
R	DRY STOR. 48" X 78"	
S	MIRROR 12" X 18"	TOP @ 3'-0" AFF



(C5)  
A4.0 1/4" = 1'-0"

ENLARGED ELEVATOR AND  
TOILET ROOM PLAN



(E5)  
A4.0 1/4" = 1'-0"

EXTERIOR STAIR PLAN

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NO.	DATE	REVISIONS
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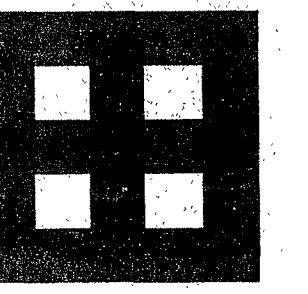
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A4.01

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PROJECT:  
ADDITION AND RENOVATIONS TO  
**McKnight Roads**  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124

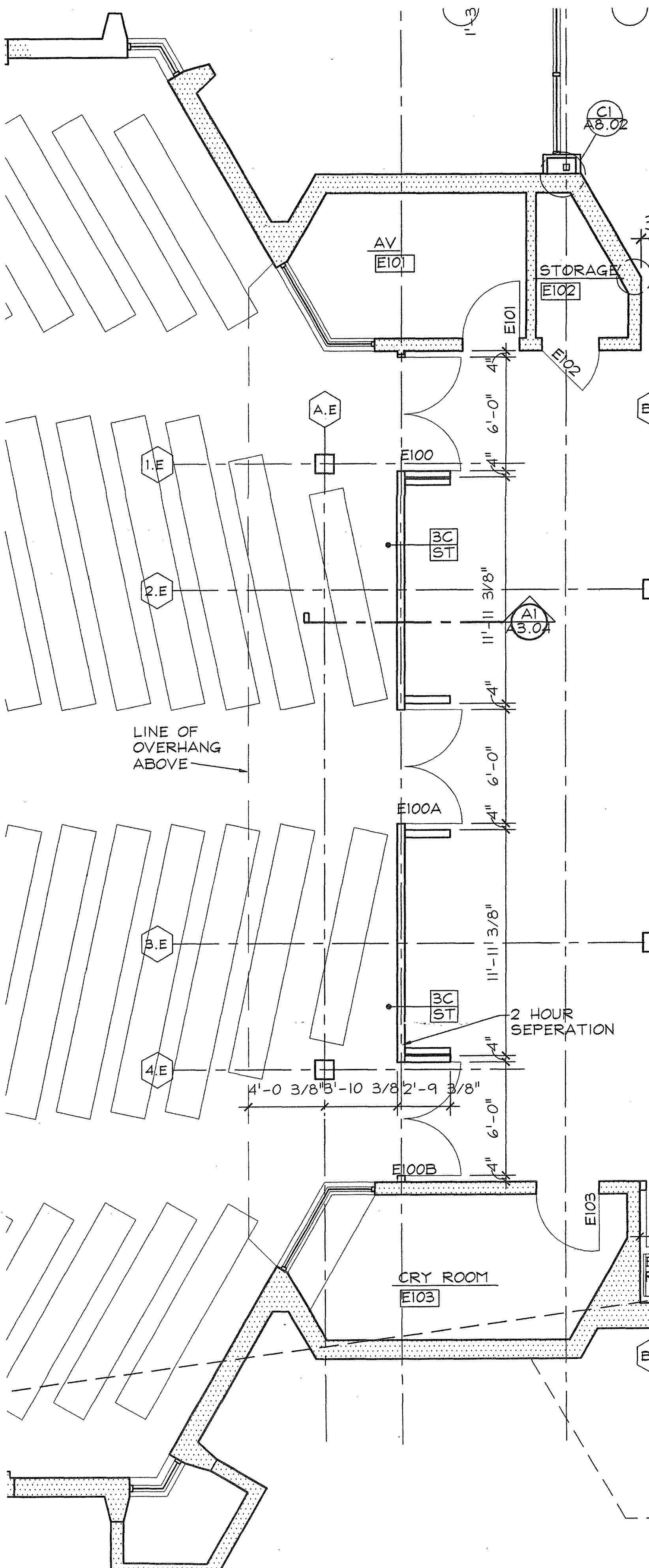
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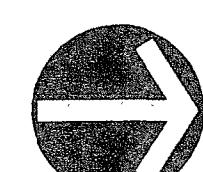
NO	DATE	REVISIONS
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DATE: NOVEMBER 1, 2002  
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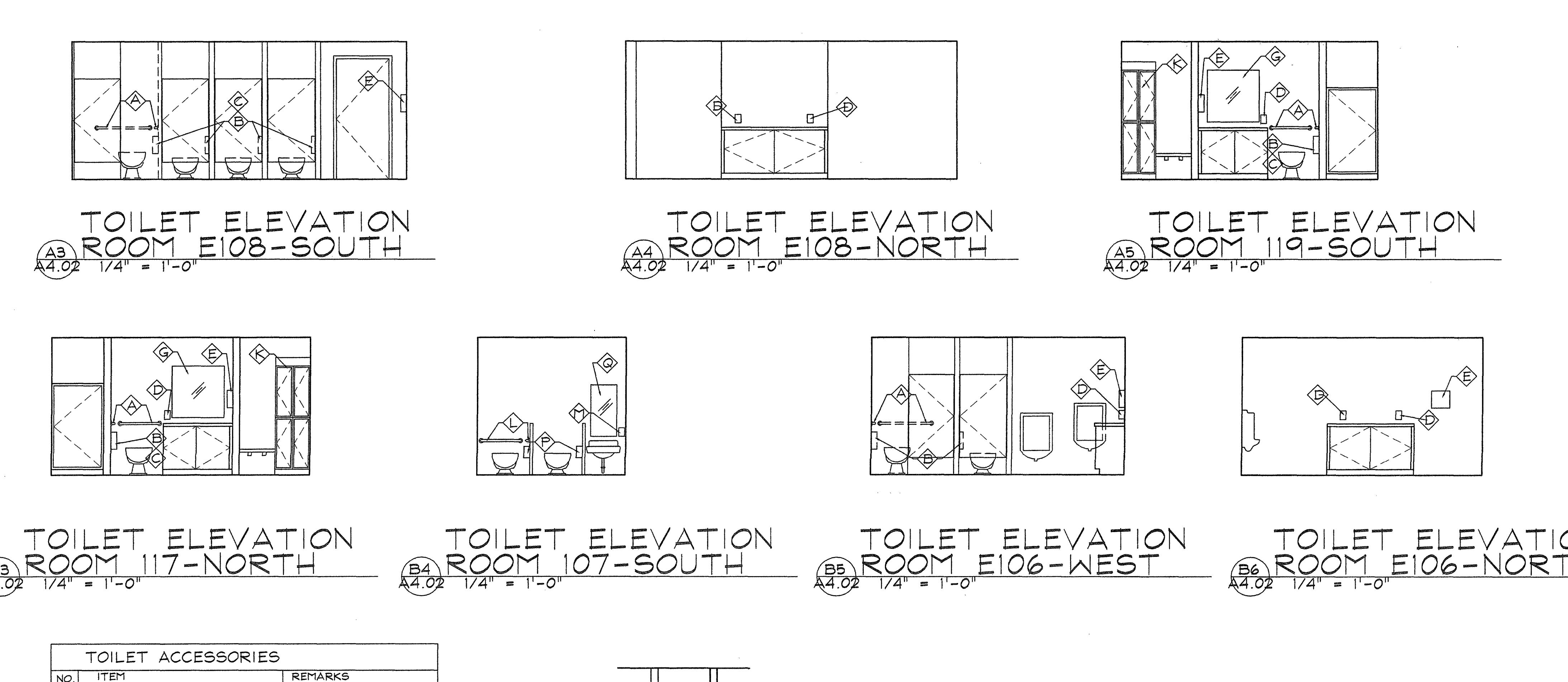
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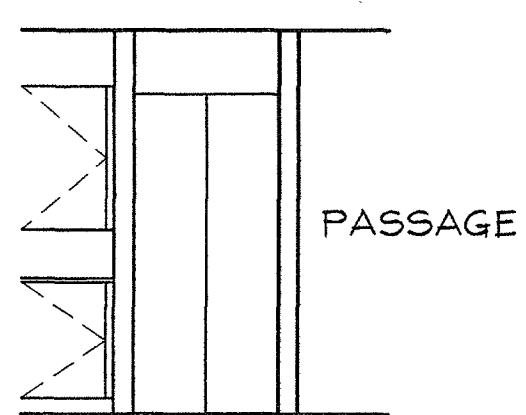
**ENLARGED WALL AUDITORIUM PLAN**



D



TOILET ACCESSORIES		REMARKS
A	36" GRAB BAR	CENTER @ 3'-0" AFF
B	TOILET PAPER DISPENSER	BTM. @ 1'-6" AFF
C	FEMININE NAPKIN DISPOSAL	BTM. @ 1'-4 1/2" AFF
D	SOAP DISPENSER	
E	TOWEL DISPENSER	
F	MIRROR 18" X 36"	BTM. @ 2'-4" AFF
G	MIRROR 36" X 36"	BTM. @ 3'-4" AFF
H	SINK	TOP @ 2'-0" AFF
I	28" GRAB BAR	CENTER @ 3'-0" AFF
J	1x3' LOCKERS	
K	28" GRAB BAR	CENTER @ 2'-0" AFF
L	SOAP DISPENSER	BTM. @ 2'-3" AFF
M	TOWEL DISPENSER	BTM. @ 2'-3" AFF
N	TOILET PAPER DISPENSER	BTM. @ 1'-0" AFF
O	MIRROR 18" X 36"	BTM. @ 2'-3" AFF
P	MIRROR 60" X 36"	BTM. @ 2'-3" AFF
Q	12"X 18"	TOP @ 3'-0" AFF
R		
S		



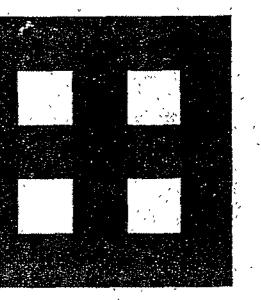
**ELEVATION  
ROOM 122-EAST**



**ELEVATION  
ROOM 122-EAST**



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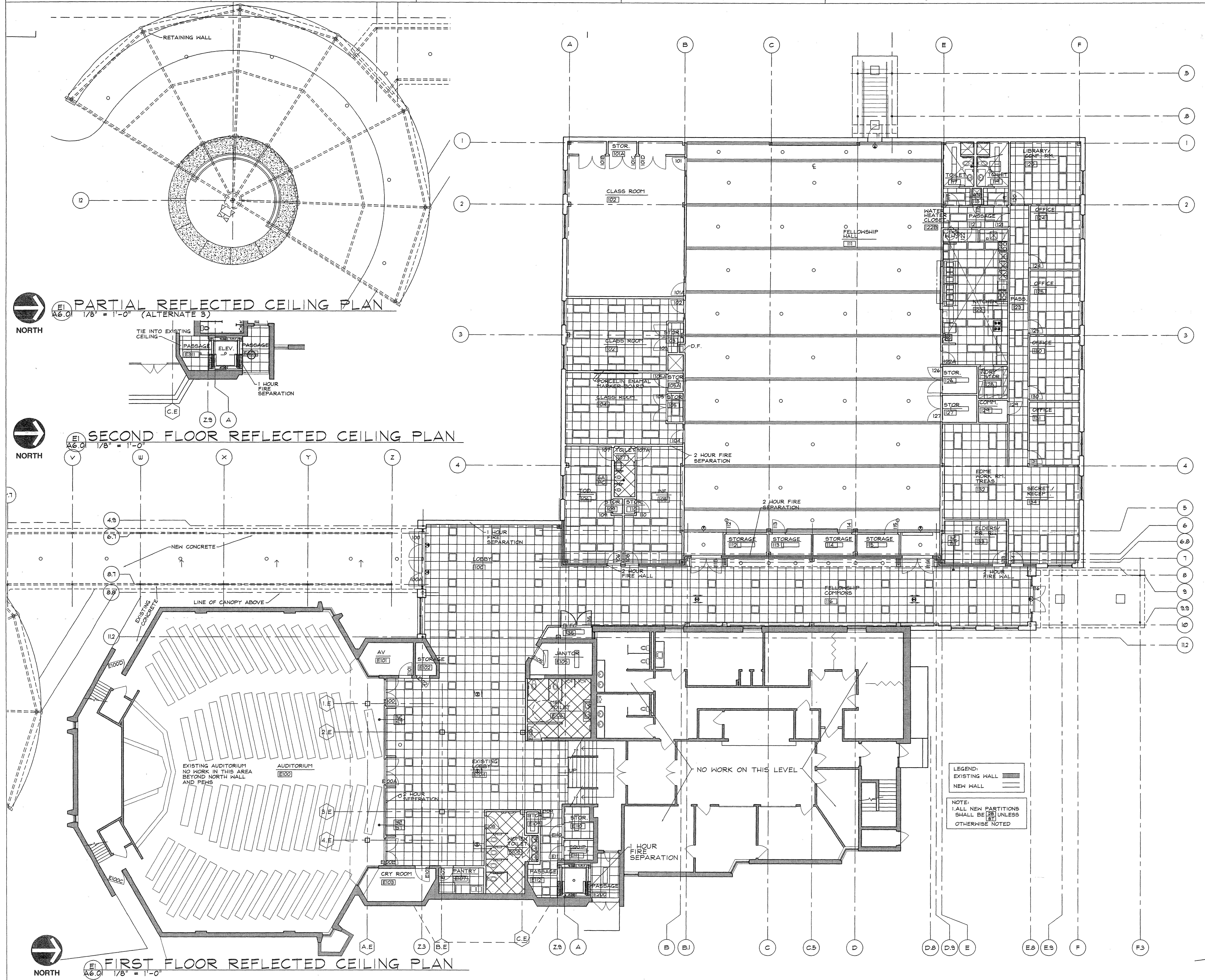
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FAX (314) 942-2242

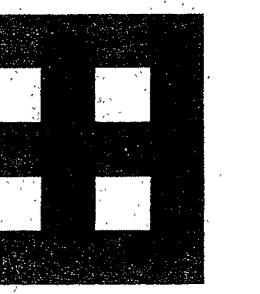
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PROJECT:  
ADDITION AND RENOVATIONS TO  
**McKnight Road**  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124





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HARDWARE CONSULTANT  
8710

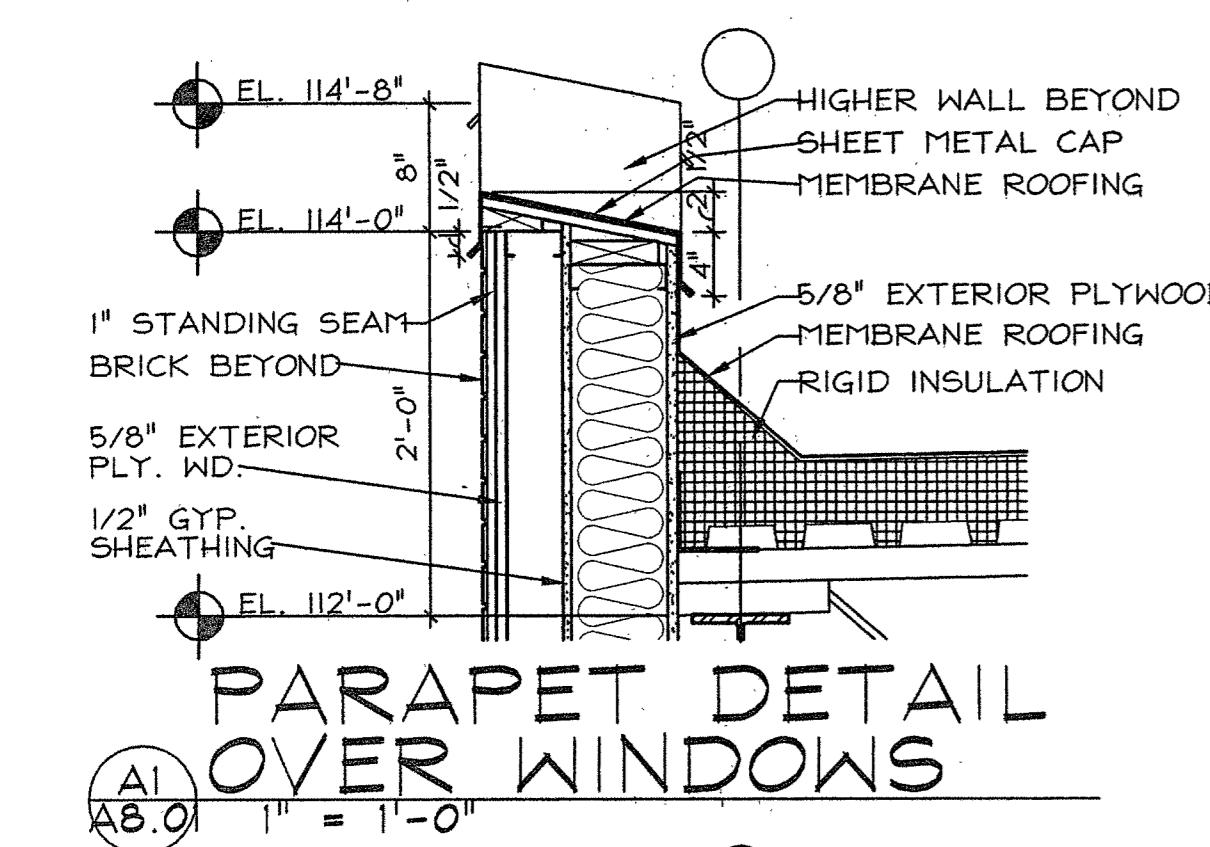
MECHANICAL  
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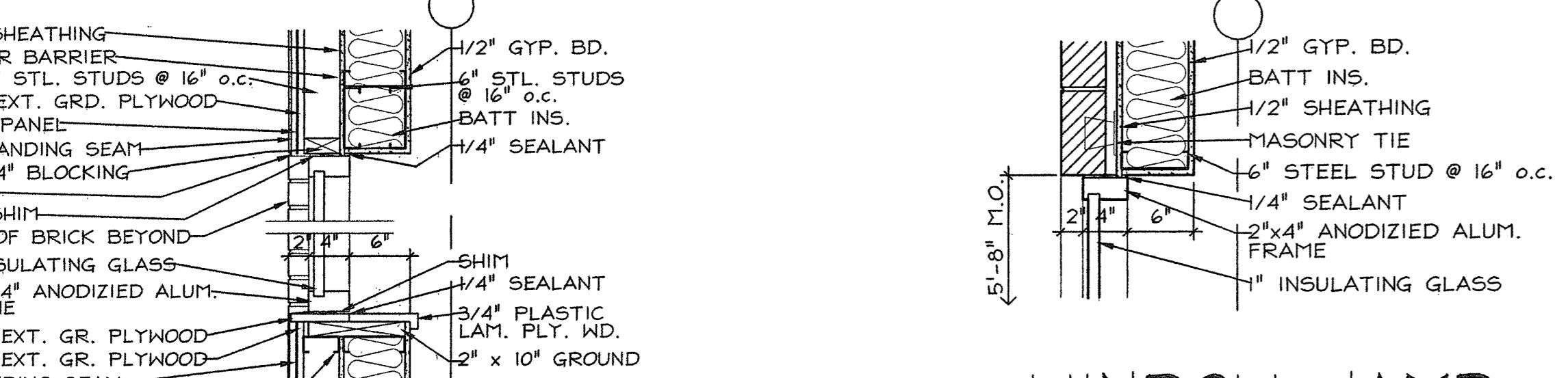
LANDSCAPE ARCHITECT  
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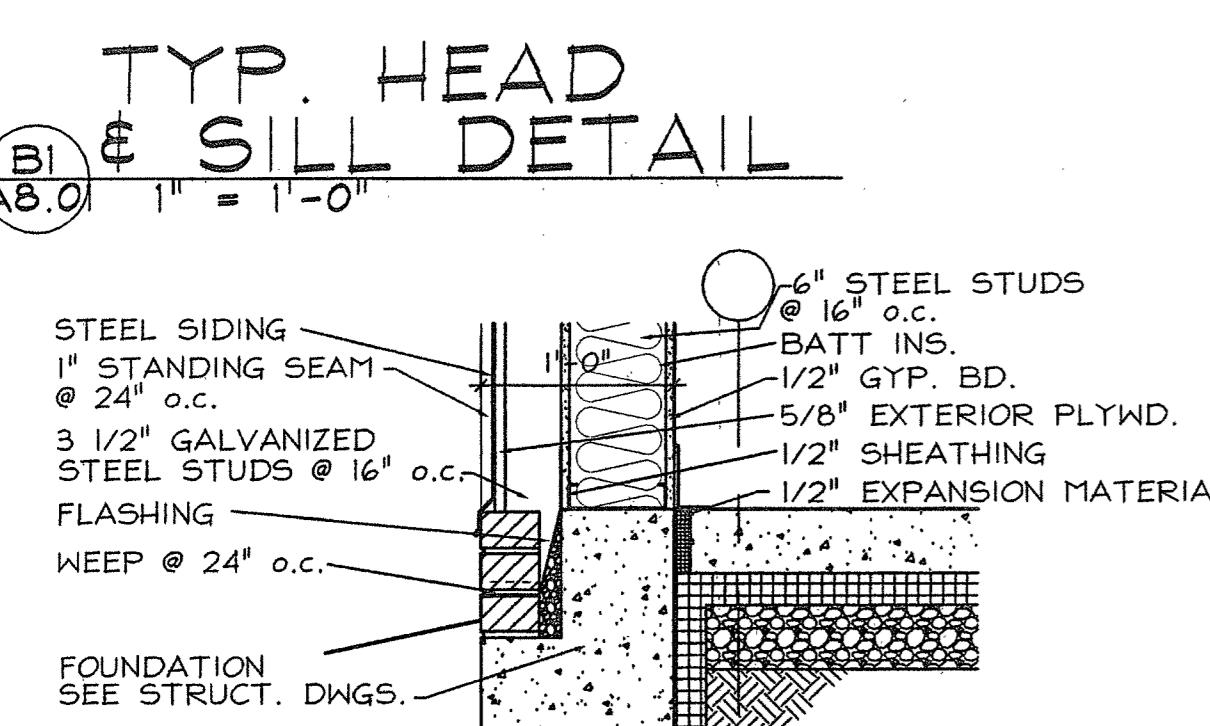
**PROJECT: ADDITION AND RENOVATIONS TO  
McKnight Road  
Church of Christ**  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124



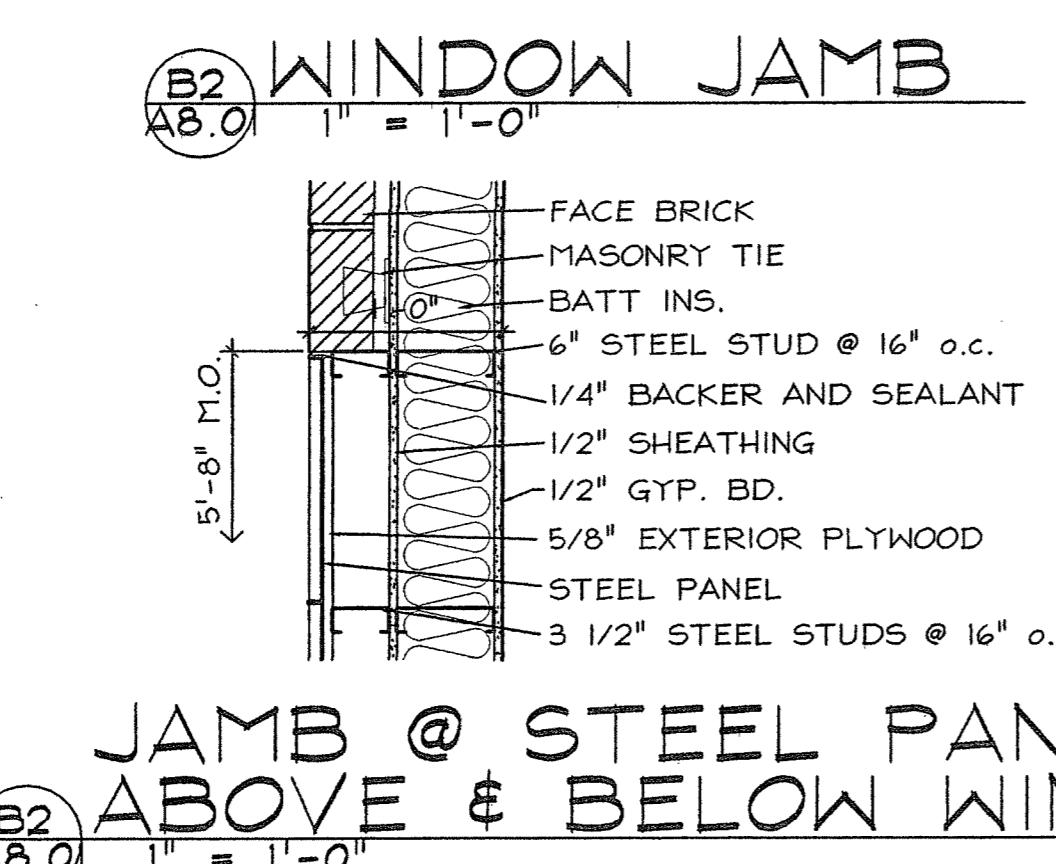
**PARAPET DETAIL  
OVER WINDOWS**



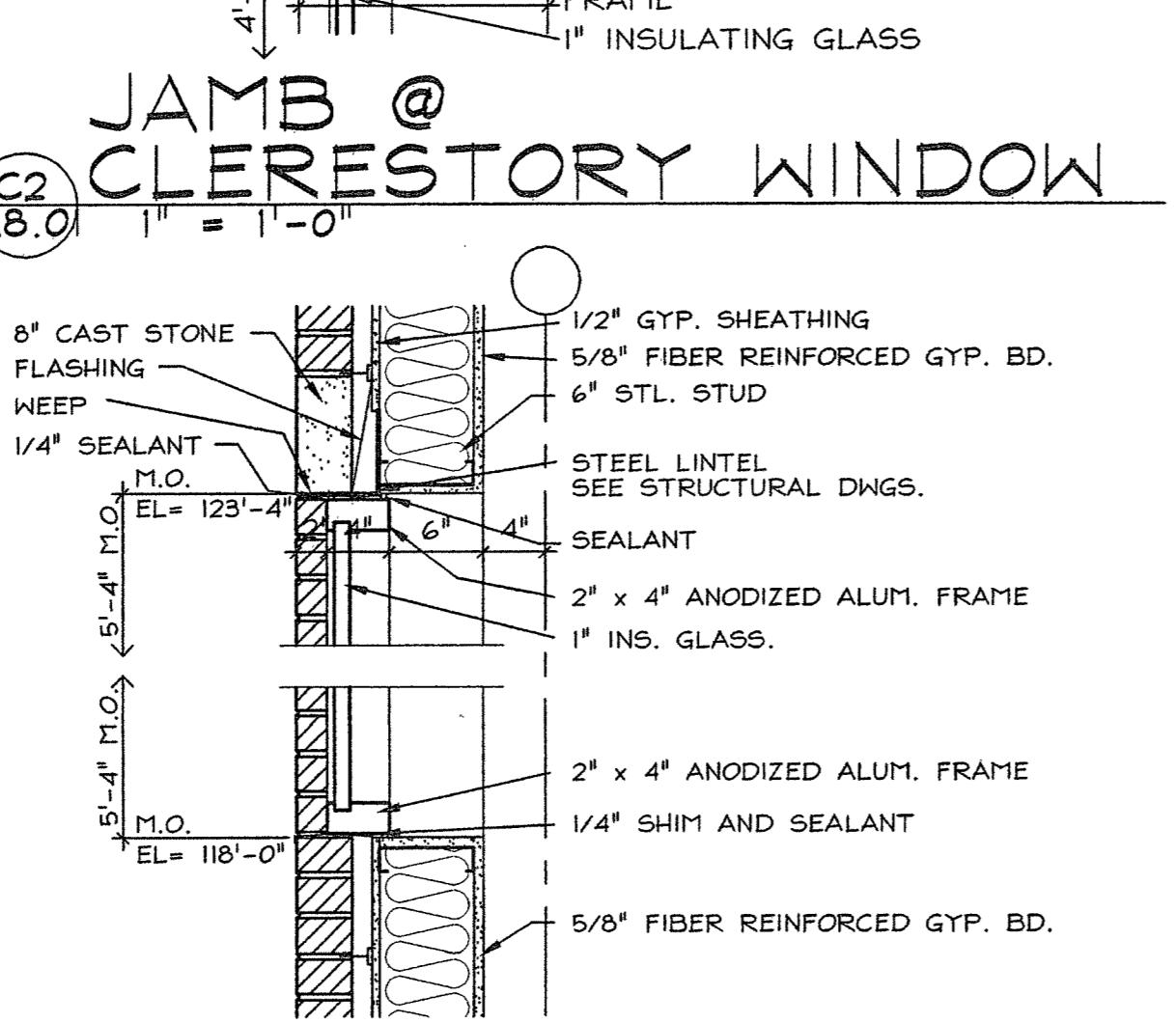
**PARAPET DETAIL  
AT BRICK WALL**



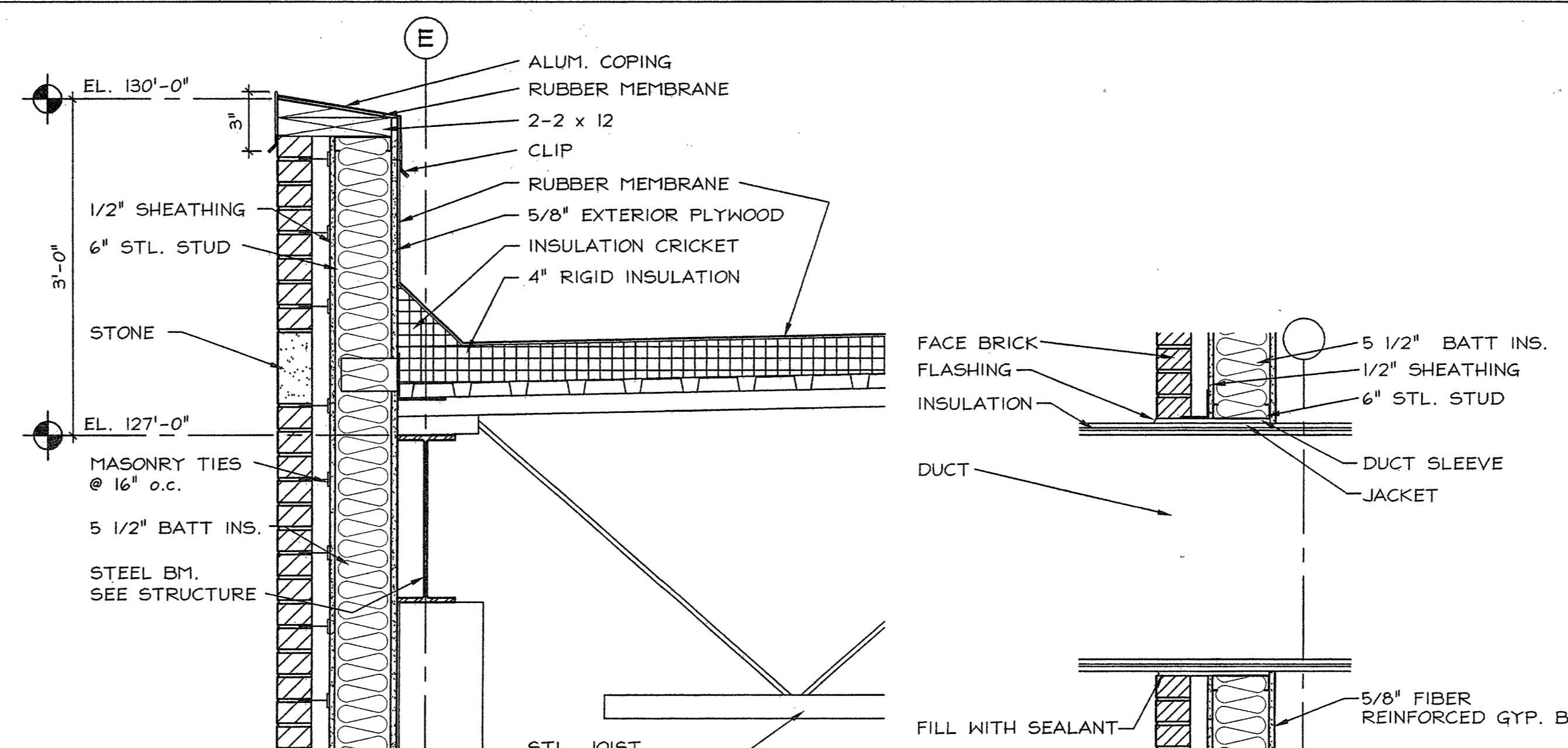
**STEEL SIDING AT GRADE**



**JAMB @ STEEL PANEL  
ABOVE & BELOW WINDOW**

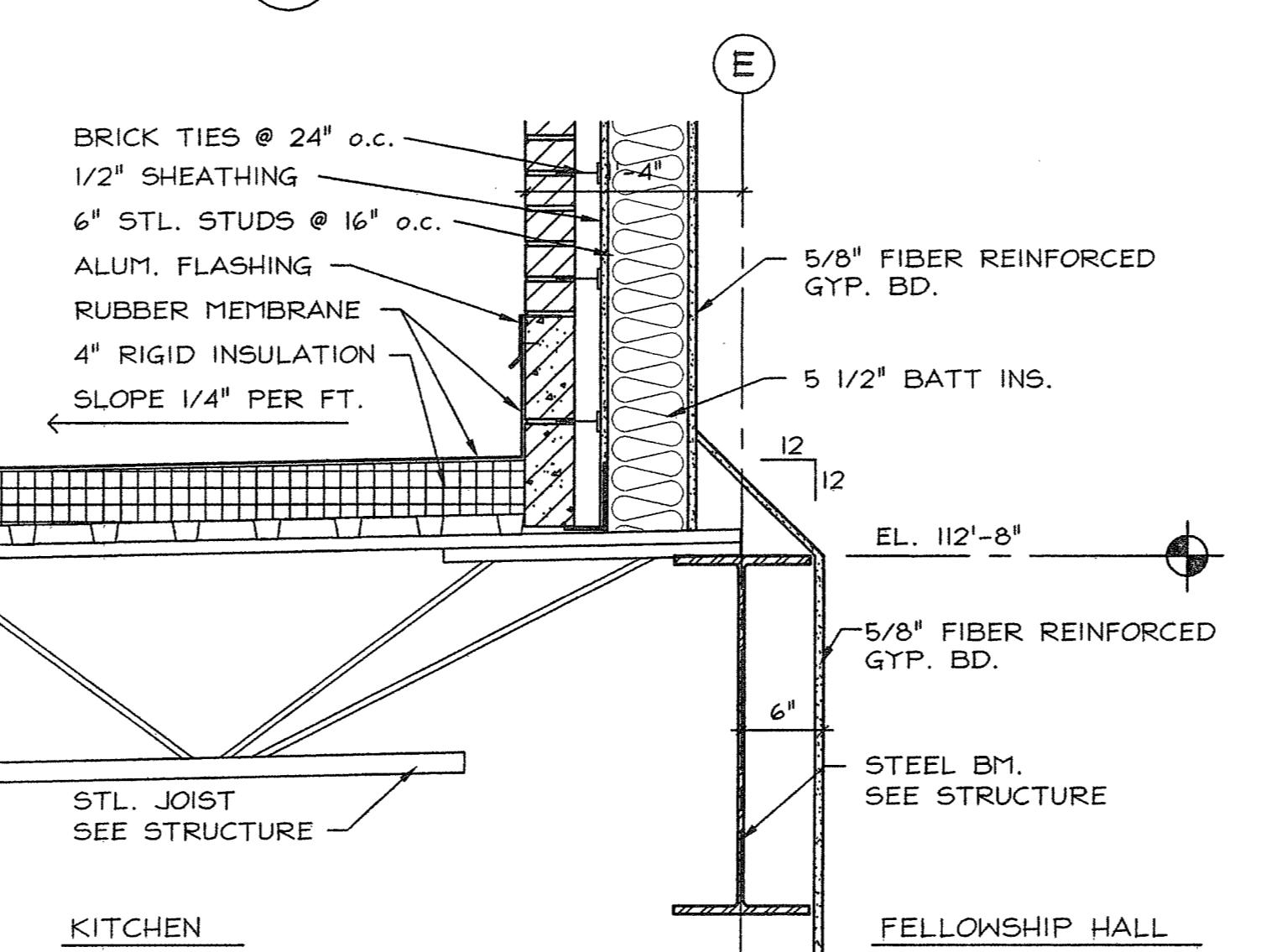


**HEAD AND SILL @  
CLERESTORY WINDOW**

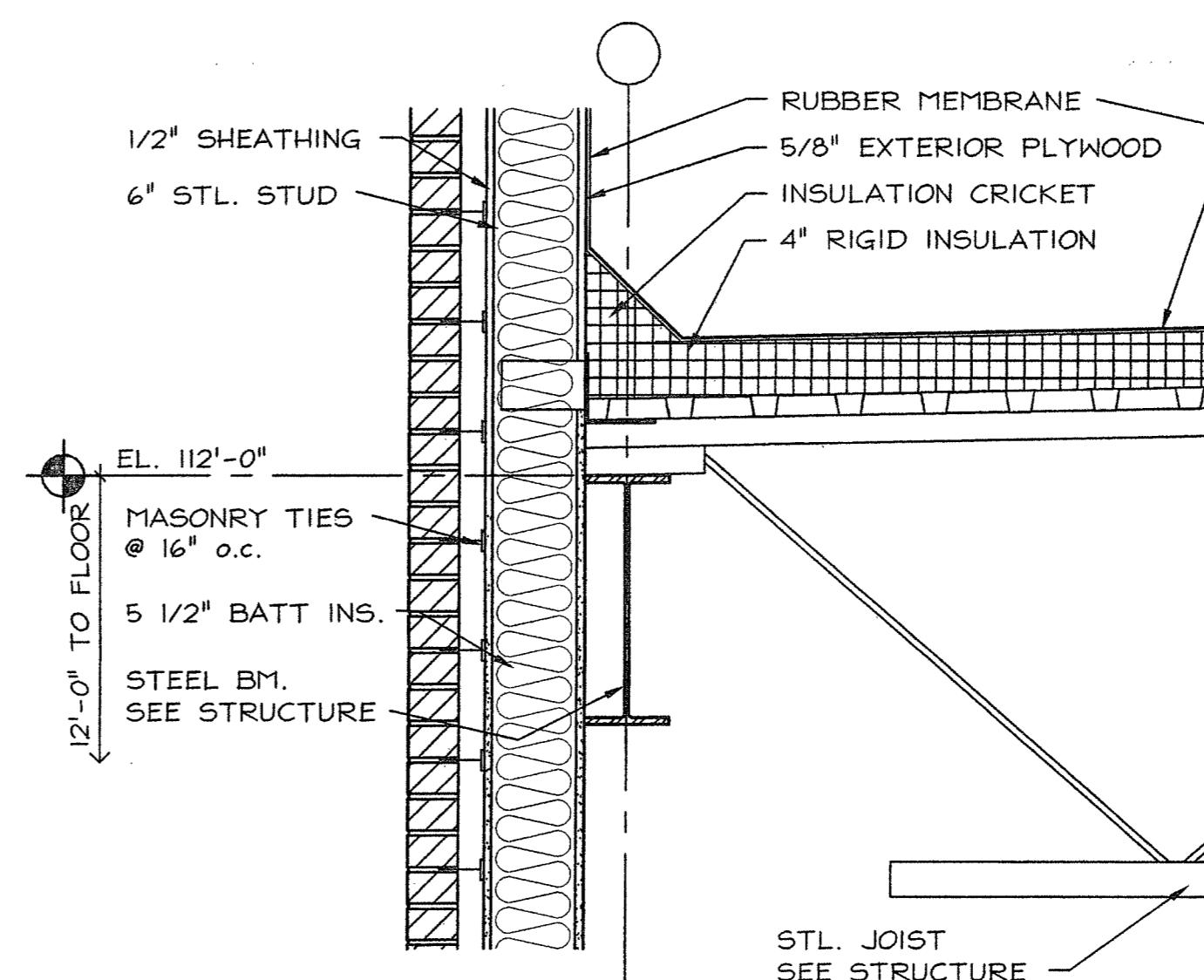


**SECTION THRU NORTH  
WALL @ FELLOWSHIP HALL**

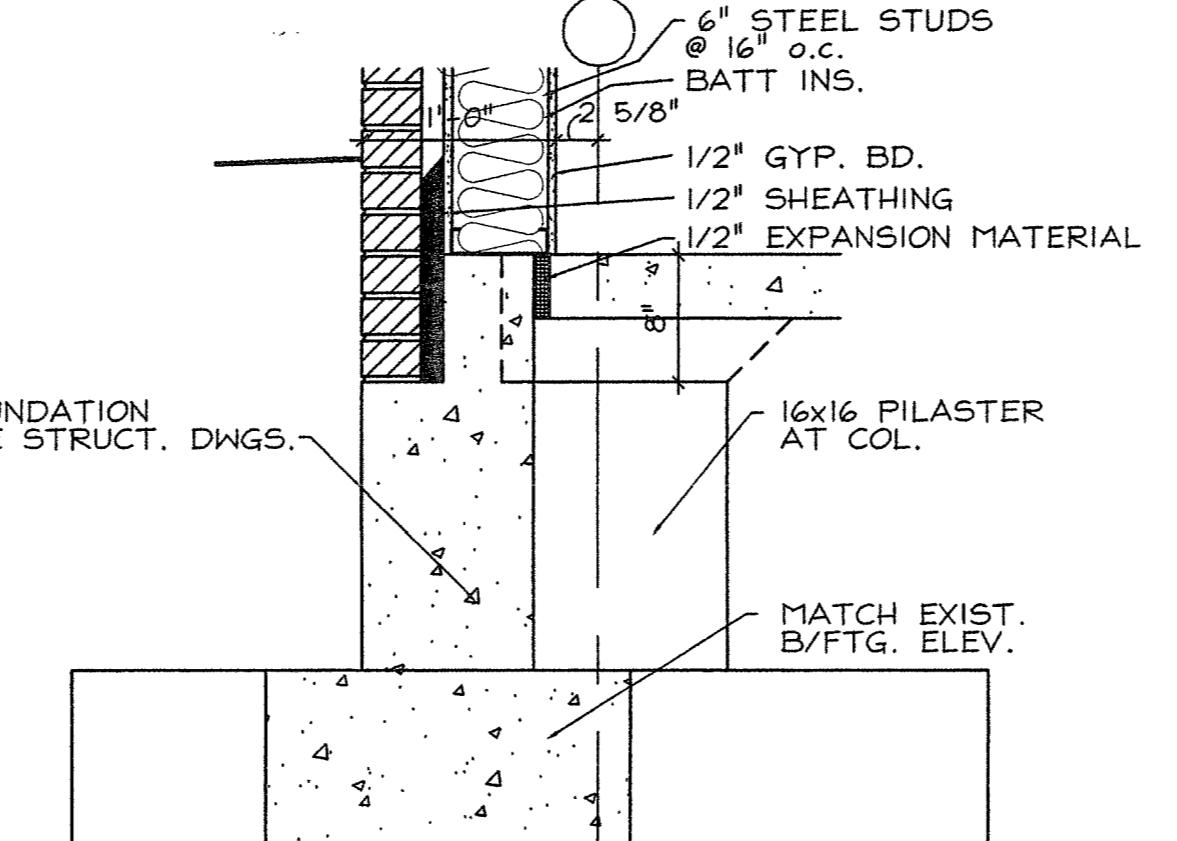
**SECTION THRU  
MECH. DUCT**



**SECTION THRU NORTH  
WALL @ FELLOWSHIP HALL**



**SECTION THRU  
NORTH WALL @ COL. F**



**SECTION @ COL. 10**

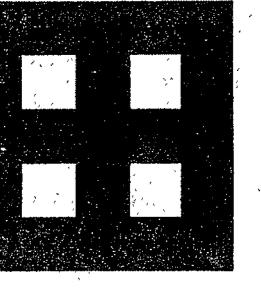
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**ADDITION AND RENOVATIONS TO  
McKnight Roads  
Church of Christ**

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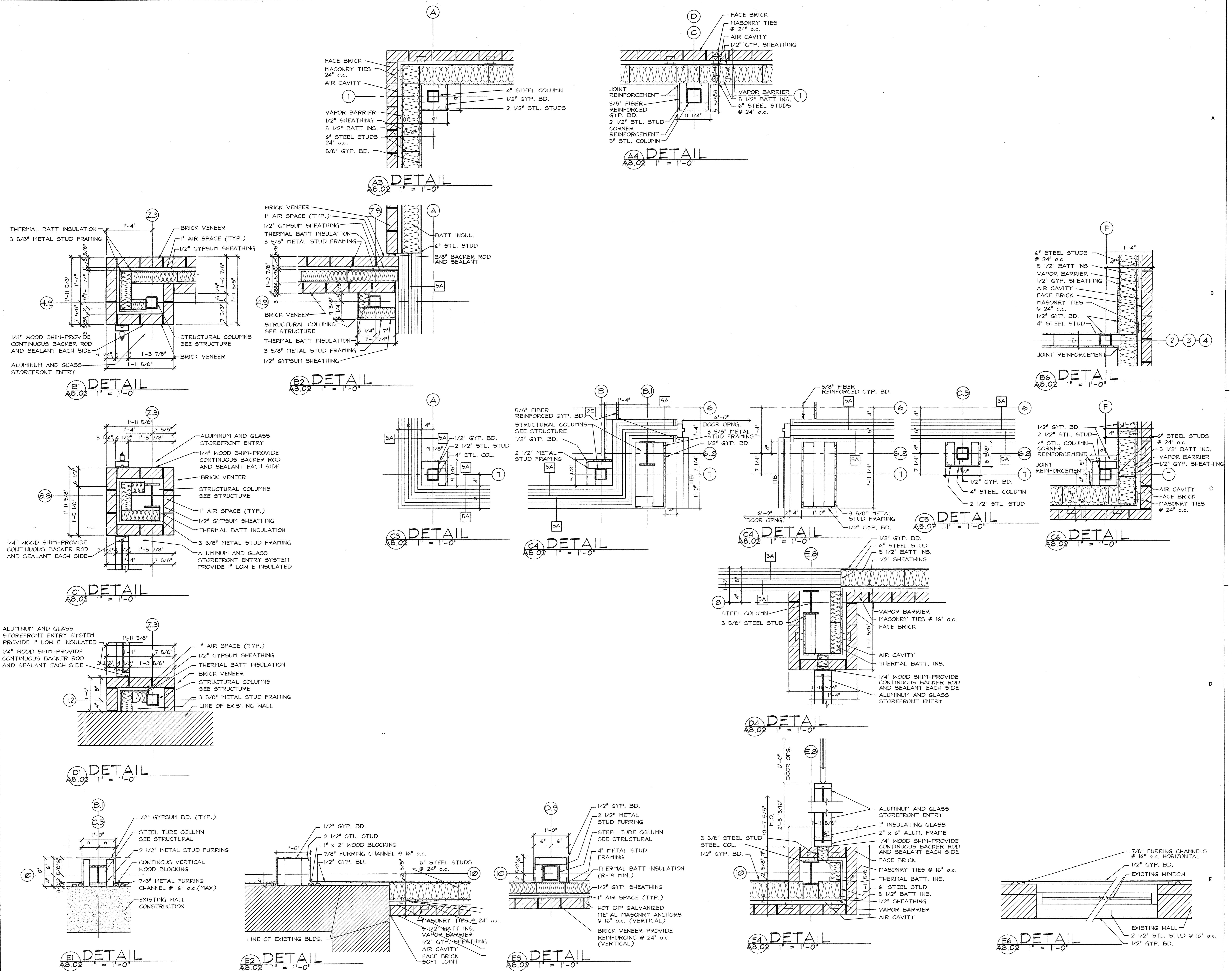
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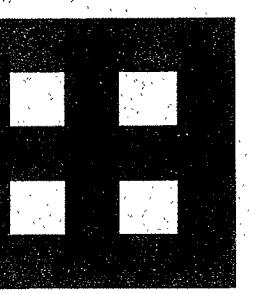
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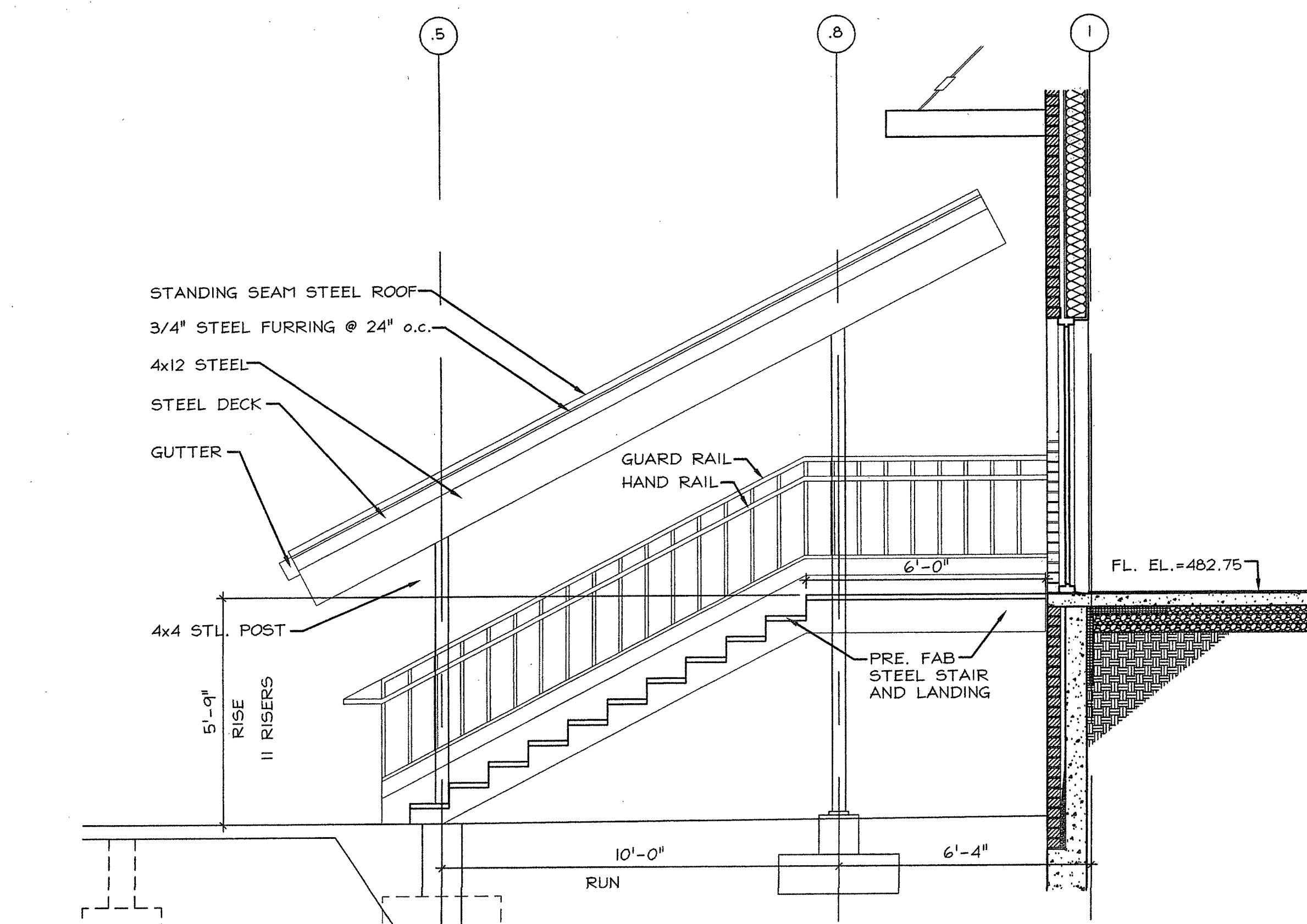
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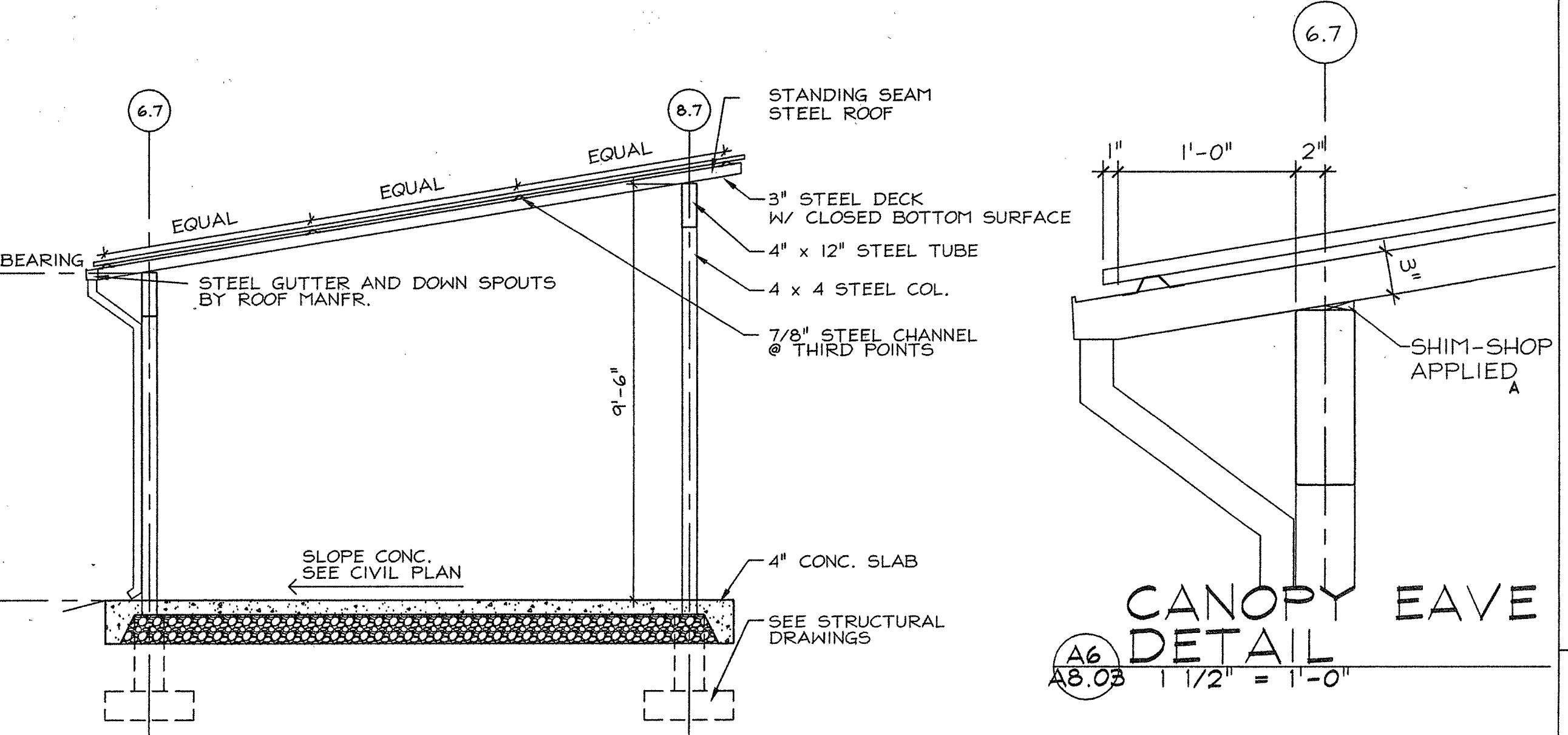
PROJECT:  
ADDITION AND RENOVATIONS TO  
**McKnight Road**  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124



**SECTION THRU STAIRS  
ON WEST SIDE**

A5.03

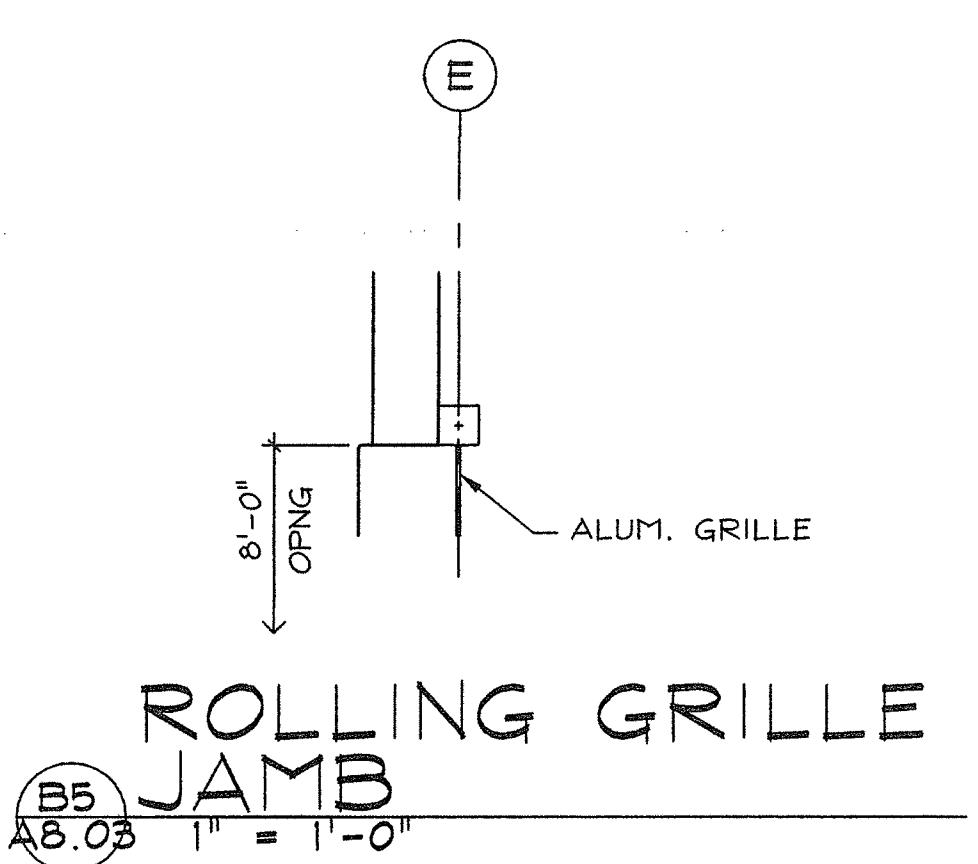
3/8" = 1'-0"



**CANOPY SECTION**

A5.03

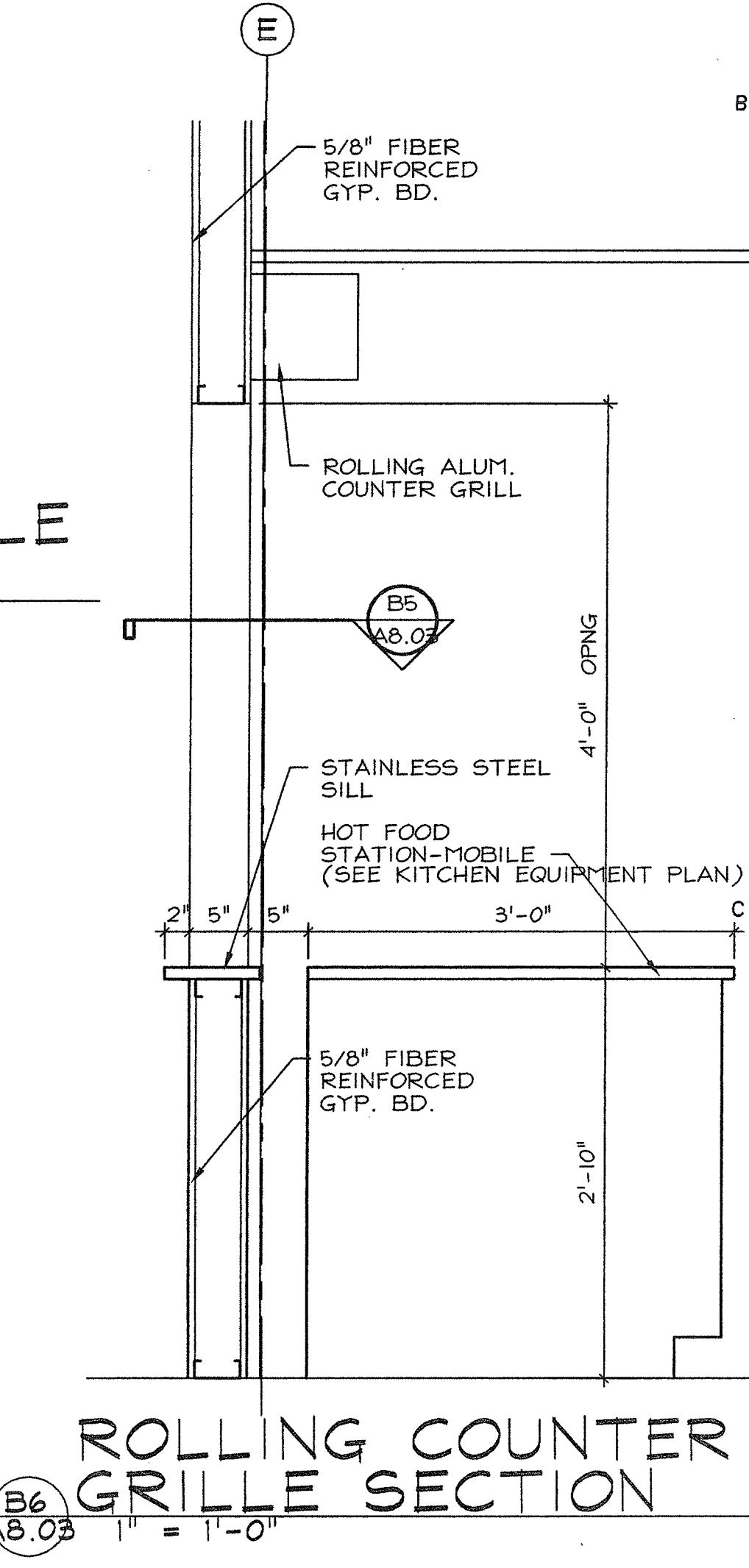
3/8" = 1'-0"



**ROLLING GRILLE  
JAMB**

B5.03

1' = 1'-0"



**ROLLING COUNTER  
GRILLE SECTION**

B6.03

1' = 1'-0"

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Revised: 10/24/02

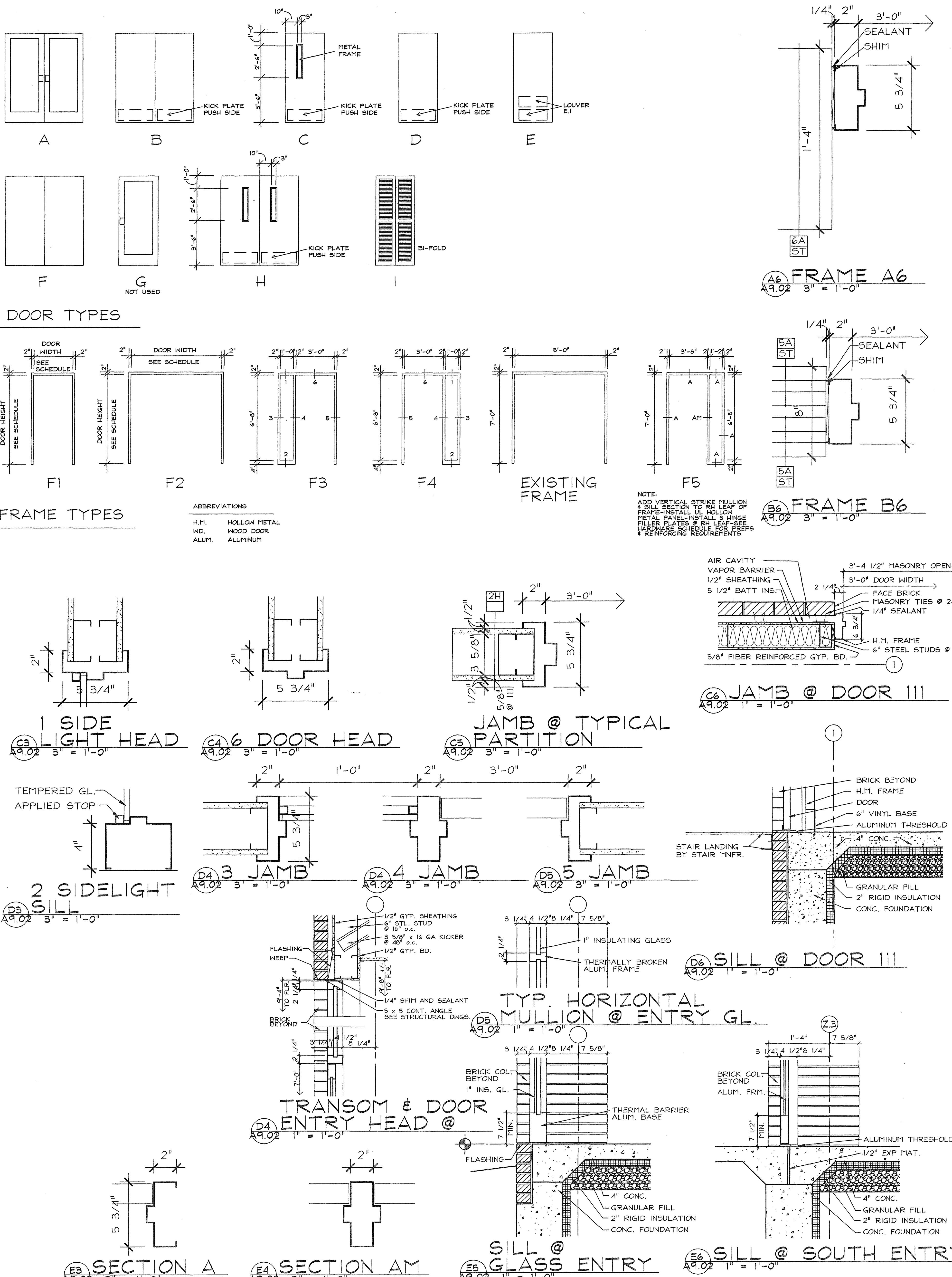
### ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	FLR.	BASE	WALLS				CLG.	CLG. HT.	REMARKS
				N	E	S	W			
100	LOBBY	CP-1,3,4	VB-1	P-2	P-2	GL	BR	ACT-1	--	1, 3, 8
101	YOUTH ACTIVITY CENTER	CP-2	VB-1	P-1	P-1	P-2	P-1	OPEN	--	9
101A	STORAGE	CP-2	VB-1	P-1	P-1	P-1	P-1	OPEN	--	
102	CLASSROOM	CP-2	VB-1	P-1	P-1	P-2	P-1	ACT-1	--	
103	STORAGE	CP-2	VB-1	P-1	P-1	P-1	P-1	ACT-1	--	
104	CLASS ROOM	CP-2	VB-1	P-1	P-1	P-2	P-1	ACT-1	--	
105	STORAGE	CP-2	VB-1	P-1	P-1	P-1	P-1	ACT-1	--	
105A	STORAGE	CP-2	VB-1	P-1	P-1	P-1	P-1	ACT-1	--	
106	TODDLER	VT-1/CP-2	VB-1	P-1	P-1	P-1	P-1	ACT-1	--	3
107	TOILET	CT-1	CT-1	P-2	P-2	P-2	P-2	ACT-1	--	
108	INFANT	VT-1/CP-2	VB-1	P-1	P-1	P-1	P-1	ACT-1	--	3
109	STORAGE	CP-2	VB-1	P-1	P-1	P-1	P-1	ACT-1	--	
110	STORAGE	CP-2	VB-1	P-1	P-1	P-1	P-1	ACT-1	--	
111	FELLOWSHIP HALL	VT-1,2	VB-1	P-2	P-2	P-2	P-2	OPEN	--	9, 11
112	STORAGE	VT-1	VB-1	P-1	P-1	P-1	P-1	DW	--	
113	STORAGE	VT-1	VB-1	P-1	P-1	P-1	P-1	DW	--	
114	STORAGE	VT-1	VB-1	P-1	P-1	P-1	P-1	DW	--	
115	STORAGE	VT-1	VB-1	P-1	P-1	P-1	P-1	DW	--	
116	FELLOWSHIP COMMONS	CP-1,3,4	VB-1	P-2	P-2,3	--	P-2,3	ACT-1	--	1, 2, 3, 4, 8
117	TOILET	CT-1	CT-1	P-5/MR	P-5	P-5	P-5	DW/ACT-1	--	2, 5, 6
118	JANITOR	SC	VB-1	P-5	P-5	P-5	P-5	DW	--	
119	TOILET	CT-1	CT-1	P-5	P-5/MR	P-5	P-5	DW/ACT-1	--	2, 5, 6
120	LIBRARY/CONF.	CP-2	VB-1	P-2	P-2	P-2	P-2	ACT-1	--	
121	PASSAGE	VT-1	VB-1	P-2	P-2	P-2	P-2	ACT-1	--	
122	KITCHEN	QT-1	QT-1	P-1	P-1	P-1	P-1	ACT-1	--	
122B	WATER HEATER CLOSET	SC	VB-1	P-1	P-1	P-1	P-1	ACT-1	--	
123	PASSAGE	CP-2	VB-1	P-1	P-1	P-1	P-1	ACT-1	--	
124	OFFICE	CP-2	VB-1	P-2	P-1	P-1	P-1	ACT-1	--	
125	OFFICE	CP-2	VB-1	P-2	P-1	P-1	P-1	ACT-1	--	
126	STORAGE	VT-1	VB-1	P-1	P-1	P-1	P-1	DW	--	
127	STORAGE	VT-1	VB-1	P-1	P-1	P-1	P-1	DW	--	
128	DRY STORAGE	VT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	--	
129	COMM.	CP-2	VB-1	P-1	P-1	P-1	P-1	DW	--	
130	OFFICE	CP-2	VB-1	P-2	P-1	P-1	P-1	ACT-1	--	
131	OFFICE	CP-2	VB-1	P-2	P-1	P-1	P-1	ACT-1	--	
132	EDME WORK RM. TREAS	CP-2	VB-1	P-1	P-3	P-2	P-1	ACT-1	--	
133	ELDERS/PR RM	CP-2	VB-1	P-2	P-2	P-2	P-2	ACT-1	--	
134	SECT./RECEPT	CP-2	VB-1	P-1	P-1	P-3	P-1	ACT-1	--	

### FINISH LEGEND

MCKNIGHT CHURCH		VINYL TILE		PAINT		ACOUSTICAL TILE	
FINISH LEGEND	4/5/02	VT-1	MFG: Monington	P-1 General	MFG: Sherwin Williams	ACT-1	MFG: Armstrong
		PATTERN: Florentine	PATTERN: Eggshell	QUALITY: Eggshell	PATTERN: Cortega	QUALITY: Cortega	
		COLOR: No. 713	COLOR: No. 704	SIZE: 12 x 12	COLOR: No. 704	SIZE: 24 x 24 x 5/8	
		NO: 7506-296	NO: 579	GRID: 15/16	NO: 579	EDGE: Square Lay-In	
		OZ: 12 oz	OZ: 12 oz		COLOR: White	SIZE: 24 x 24 x 5/8	
		FIBER: DuPont Antron Legacy	FIBER: Lyn Ludwig		Color: Dry Goods	Color: White	
		REP: 314-644-4551	REP: 314-644-4551				
CARPETING		VINYL BASE		P-2 Accent		PLASTIC LAMINATE (IF NECESSARY)	
CP-1	Lobby	MFG: Monterey	PATTERN: Johnsonite	MFG: ICI	MFG: PL-1	MFG: Armstrong	
		PATTERN: Spectrafl	PATTERN: Burnt Umber	QUALITY: Eggshell	PATTERN: State Crepe	QUALITY: Cortega	
		COLOR: Ohio Star	COLOR: Burnt Umber	SIZE: 63"	COLOR: No. AG35	SIZE: 24 x 48 x 5/8	
		NO: 7506-296	NO: 711	GRID: 15/16	FINISH: Suede	Color: White	
		OZ: 34 oz	OZ: 34 oz				
		FIBER: DuPont Antron Legacy	FIBER: Lyn Ludwig				
		REP: 314-644-4551	REP: 314-644-4551				
GENERAL		QUARRY TILE		P-3 Accent		CULTURED MARBLE	
CP-2	General	MFG: Monterey	PATTERN: American Olean	MFG: P-5 Epoxy	MFG: DF-1	MFG: Cultured Marble	
		PATTERN: Park Avenue	PATTERN: Quarry Naturals	QUALITY: Epoxy	QUALITY: Latex Enamel	QUALITY: White on White	
		COLOR: Le Cirque	Color: Shallow Gray	SIZE: 8 x 8"	SIZE: 1014	Color: White	
		NO: 6030-3296	NO: N46	FINISH: Sample of title with and without color grit prior to ordering	FINISH: Hematite		
		OZ: 30 oz	OZ: 6"				
		FIBER: DuPont Antron Legacy	FIBER: Lyn Ludwig				
		REP: 314-644-4551	REP: 314-644-4551				
HARDWARE		GROUT		DOOR FRAMES		GENERAL DOOR HARDWARE	
CP-3	Border	MFG: Lee's	PATTERN: First Step	MFG: DF-1	MFG: DF-1	MFG: Brushed Chrome	
		COLOR: 524	PATTERN: Stepping Stone	QUALITY: Light Pewter	QUALITY: Latex Enamel	QUALITY: Brushed Chrome	
		NO: 524	NO: 927	SIZE: 1/8 - 1/4"	SIZE: 1014	Color: White	
		OZ: 30 oz	OZ: 927	FINISH: Red Oak	FINISH: Hematite		
		WDTH: 6"	WDTH: 6"	STAIN: Match to existing	STAIN: -		
		BACKING: Integrated cushion thermobond	BACKING: Kevin O'Brien	NOTE: For base, cut tile to 12 x 12" and cap with Schleuter trim (TR-1). Floor and wall tile to be installed on a 45 degree angle	NOTE: Use standard aluminum transition strip between carpet and tile as well as cap for tile base		
CERAMIC TILE		TRANSITION STRIPS		WALLCOVERING		OUTLET COVERS/SWITCHES/RECEPTACLES/DATA AND PHONE RECEPTACLES	
CT-1		MFG: Crossville	PATTERN: Sierra Series	MFG: Schleuter	MFG: DELETED	MFG: DELETED	
		COLOR: Stone	NO: VS20	Color: Schleuter	Color: Schleuter	Color: White	
		NO: VS20	SIZE: 12 x 12	Series: AE100 - 3/8"	Series: AE100 - 3/8"		
		NOTE: For base, cut tile to 12 x 12" and cap with Schleuter trim (TR-1).	NOTE: For base, cut tile to 12 x 12" and cap with Schleuter trim (TR-1). Floor and wall tile to be installed on a 45 degree angle	FINISH: Satin anodized aluminum	FINISH: Satin anodized aluminum		
NOTES:		WOOD DOORS & TRIM		FABRIC WRAPPED PANELS		ALTERNATE #2	
1. PROVIDE SCHLEUTER TRANSITION STRIP (TR-1) BETWEEN MAIN CARPET AND WALK OF CARPET		WD-1	WD-1	DELETED	DELETED	ACOUSTICAL TILE (ALTERNATE FOR ACT-1)	
2. CERAMIC TILE BASE TO BE STANDARD 12"x 12" TILE CUT IN HALF AND CAPPED OFF WITH STAINLESS SCHLEUTER TRIM (TR-1)						ACT-3	
3. SEE FLOORPLAN FOR CARPET INSET DETAILS AND DIMENSIONS						MFG: Armstrong	
4. VANITY TO BE LOCATED IN BATHROOMS COUNTER AND WALLS ADJACENT TO BE P-2.						PATTERN: Cortega Second Look	
5. VANITY TO BE CULTURED MARBLE WITH UNDERMOUNT PORCELAIN BOWLS						Color: White	
6. MIRROR TO EXTEND FULL WIDTH OF VANITY AND 48" HIGH - FRAMELESS						SIZE: 24 x 48 x 5/8 (looks like 24 x 24 squares)	
7. TILE ON WET WALL TO BE INSTALLED ON 45 DEGREE ANGLE - FLOOR TO CEILING. FLOOR TILE TO BE INSTALLED ON 45 DEGREE ANGLE						Color: White	
8. CP-4 TO BE INSTALLED AT ENTRANCE ONLY. SEE PLAN FOR LOCATION.						Grid: 15/16	
9. CEILING TO BE PAINTED DT-1							
10. CEILING TILE TO BE INSTALLED ON 45 DEGREE ANGLE TO MATCH FLOOR							
11. VT-1 TO BE USED AS BORDER AND LINES OF BASKETBALL COURT					</td		

DOOR AND FRAME SCHEDULE											
DOORS						FRAMES					
DOOR NO.	DOOR TYPE	MAT'L	DOOR SIZE	HND GRP.	U.L. LABEL	GLASS TYPE	REMARKS	TYPE	MAT'L	DETAILS	REMARKS
100	A	ALUM	3'-0" WIDE X 7'-0" HIGH (PAIR)	25	-			F2	ALUM	B1/A.02	
100A	A	ALUM	3'-0" WIDE X 7'-0" HIGH (PAIR)	25	-			F2	ALUM	C1/A.02	
101	D	WD.	3'-0" WIDE X 7'-0" HIGH	15	-			F3	H.M.	C34C4/A.02 C4D5/A.02 D3/A.02	
101A	D	WD.	3'-0" WIDE X 7'-0" HIGH	15	-			F4	H.M.	C34C4/D4D5/A.02 D3/A.02	
101B	F	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	22	-			F2	H.M.	C5/A.02	
101C	F	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	22	-			F2	H.M.	C5/A.02	
101D	F	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	22	-			F2	H.M.	C5/A.02	
102	D	WD.	3'-0" WIDE X 7'-0" HIGH	15	-			F3	H.M.	C34C4/D4D5/A.02 D3/A.02	
103	F	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	21	-			F2	H.M.	C5/A.02	
104	D	WD.	3'-0" WIDE X 7'-0" HIGH	15	-			F4	H.M.	C34C4/D4D5/B3/A.02 A9.02	
105	F	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	22	-			F2	H.M.	C5/A.02	
105A	E	WD.	3'-0" WIDE X 7'-0" HIGH	16	-			F2	H.M.	C5/A.02	
106	C	WD.	3'-0" WIDE X 7'-0" HIGH	6	B			F1	H.M.		
107	C	WD.	3'-0" WIDE X 7'-0" HIGH	9	-			F1	H.M.		
107A	C	WD.	3'-0" WIDE X 7'-0" HIGH	9	-			F1	H.M.	C5/A.02	
108	C	WD.	3'-0" WIDE X 7'-0" HIGH	6	B			F1	H.M.		
109	E	WD.	3'-0" WIDE X 7'-0" HIGH	17	-			F1	H.M.	C5/A.02	
110	E	WD.	3'-0" WIDE X 7'-0" HIGH	17	-			F1	H.M.	C5/A.02	
111	E	H.M.	3'-0" WIDE X 7'-0" HIGH	1	-			F1	H.M.		
111A	H	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	2	B			F2	H.M.		
111B	H	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	2	B			F2	H.M.		
112	E	WD.	3'-0" WIDE X 7'-0" HIGH	17	-			F1	H.M.	C5/A.02	
113	E	WD.	3'-0" WIDE X 7'-0" HIGH	17	-			F1	H.M.	C5/A.02	
114	E	WD.	3'-0" WIDE X 7'-0" HIGH	17	-			F1	H.M.	C5/A.02	
115	E	WD.	3'-0" WIDE X 7'-0" HIGH	17	-			F1	H.M.		
116	A	ALUM	3'-0" WIDE X 7'-0" HIGH (PAIR)	25	-			F2	ALUM		
117	D	WD.	3'-0" WIDE X 7'-0" HIGH	12	-			F1	H.M.		
118	E	WD.	1'-8" WIDE X 7'-0" HIGH	16	-			F1	H.M.		
119	D	WD.	3'-0" WIDE X 7'-0" HIGH	12	-			F1	H.M.	C5/A.02	
120	C	WD.	3'-0" WIDE X 7'-0" HIGH	20	-			F1	H.M.	C5/A.02	
121	D	WD.	3'-0" WIDE X 7'-0" HIGH	7	-			F1	H.M.		
122	D	WD.	3'-0" WIDE X 7'-0" HIGH	14	-			F1	H.M.	C5/A.02	
122A	D	WD.	3'-0" WIDE X 7'-0" HIGH	13	-			F1	H.M.	C5/A.02	
122B	I	WD.	3'-0" WIDE X 7'-0" HIGH XI-3/4	24	-			N/A	N/A	BI-FOLD LOUVRED	
123			NOT USED								
124	E	WD.	3'-0" WIDE X 7'-0" HIGH	20	-			F1	H.M.	C5/A.02	
125	E	WD.	3'-0" WIDE X 7'-0" HIGH	20	-			F1	H.M.	C5/A.02	
126	F	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	22	-			F2	H.M.	C5/A.02	
127	F	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	21	-			F2	H.M.	C5/A.02	
128	D	WD.	3'-0" WIDE X 7'-0" HIGH	15	-			F1	H.M.	C5/A.02	
129	E	WD.	3'-0" WIDE X 7'-0" HIGH	16	-			F1	H.M.	C5/A.02	
130	E	WD.	3'-0" WIDE X 7'-0" HIGH	20	-			F1	H.M.	C5/A.02	
131	E	WD.	3'-0" WIDE X 7'-0" HIGH	20	-			F1	H.M.	C5/A.02	
132			NOT USED								
133	D	WD.	3'-0" WIDE X 7'-0" HIGH	8	B			F1	H.M.		
134	C	WD.	3'-0" WIDE X 7'-0" HIGH	8	B			F1	H.M.		
135	F	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	23	-			F2	H.M.		
E100	H	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	3	B			F2	H.M.		
E100A	H	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	3	B			F2	H.M.		
E100B	H	WD.	3'-0" WIDE X 7'-0" HIGH (PAIR)	3	B			F2	H.M.		
E100C	-	-	EXISTING	26	-					EXISTING	
E100D	-	-	EXISTING	26	-					EXISTING	
E101	E	WD.	3'-0" WIDE X 7'-0" HIGH	4	B			F1	H.M.		
E102			NOT USED (EXISTING)								
E103	E	WD.	3'-0" WIDE X 7'-0" HIGH	5	B			F1	H.M.		
E104			NOT USED								
E105	E	WD.	3'-0" WIDE X 7'-0" HIGH	18	-			F1	H.M.		
E106	D	WD.	3'-0" WIDE X 7'-0" HIGH	12	-			F1	H.M.		
E107	E	WD.	3'-0" WIDE X 7'-0" HIGH	16	-			F1	H.M.		
E108	D	WD.	3'-0" WIDE X 7'-0" HIGH	11	-			F1	H.M.		
E109	E	WD.	3'-0" WIDE X 7'-0" HIGH	17	-			F1	H.M.		
E110	E	WD.	3'-0" WIDE X 7'-0" HIGH	17	-			F1	H.M.		
E111	E.I.	WD.	3'-0" WIDE X 7'-0" HIGH	19	-			F1	H.M.		
E112			NOT USED								
E401	-	-	EXISTING	10	-					EXISTING	
E409	-	-	3'-8" WIDE X 7'-0" HIGH	27	B			F5	-		



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**PROJECT: ADDITION AND RENOVATIONS TO McKnight Roads**  
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## STRUCTURAL GENERAL NOTES

### DIVISION 1 - GENERAL REQUIREMENTS AND METHODS

A. Contractor agrees that Contractor shall assume sole and complete responsibility for safety of all persons and property; that this requirement shall apply continuously during the course of the work, and that Contractor shall not be limited to normal working hours; and that Contractor shall be responsible and liable to the Structural Engineer harmless from any and all liability, real or alleged, in connection with the performance of the work on this project, excepting for liability arising from the sole negligence of Owner or Structural Engineer.

B. The Contract Documents represent the finished structure. They do not include any construction. Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to, bracing, shoring for loads due to construction equipment, temporary structures, and partially completed work. Observation visits to the site by Structural Engineer shall not indicate otherwise.

C. ABS Consulting shall not have control over the work of any Structural Engineer, and shall not be responsible in any way for construction means, methods, techniques, sequences, or procedures, or for safety measures, safety precautions and programs in connection with any construction activities, since these are solely Contractor's responsibility.

D. ABS Consulting shall not be liable for any damage or failure of any part of the structure caused by Contractor's failure to carry out any construction activities in accordance with the Contract Documents. ABS Consulting shall not have control over or charge of actions of Contractor, Subcontractor, or any of their agents, or employees, or any other persons performing portions of any construction activities.

E. The structure is stable only in its completed form. Temporary supports required for stability of the structure during all intermediate stages of construction shall be designed and provided by Contractor.

### DIVISION 2 - FOUNDATIONS

A. Submittals prepared by Subcontractors shall be reviewed by Contractor prior to mailing to Structural Engineer.

B. Submission of the Contract Documents for Shop Drawings is not permitted. Electronic drawing files will not be provided to Contractor.

C. Contractor shall verify the structurally supported equipment weights, opening sizes, and locations indicated on the Structural Drawings with Documents from other disciplines and notify Architect of any discrepancies.

D. Contractor shall submit Shop Drawings showing size, method of anchorage, weight, openings, and locations of equipment not indicated on the Structural Drawings prior to ordering for review by Structural Engineer to determine adequacy of the structure.

E. All drawings shall be reviewed by Structural Engineer as reviewed for general conformance with the design concept of the Project and general compliance with the information included in the Contract Documents. Any action indicated is subject to the requirements of the Contract Documents. Contractor is responsible for correlating and confirming dimensions at the job site, choice of fabrication on pre-assembly, coordination of the structure, and coordination of the work with that of other trades.

F. Submittals shall be reviewed within 10 working days after being received by Structural Engineer.

### DIVISION 3 - QUALITY REQUIREMENTS

A. All drawings, standard specifications or codes of any technical society, organization, or association or to codes of local or state authorities, shall mean the standards in effect as of date of the Contract Documents, unless otherwise noted.

B. Contract Documents shall govern in the event of a conflict with standard specifications or codes of any technical society, organization, or association.

C. No provision of any referenced standard specification or code, whether or not specifically incorporated by reference in the Contract Documents, shall be effective to change the duties and responsibilities of Owner, Architect, Structural Engineer, Contractor, or any of their Consultants, Agents, or Employees from those set forth in the Contract Documents, unless it is effective to assist the Structural Engineer or any of Structural Engineer's Consultants, Agents, or employees any duty or authority to supervise or direct the furnishing or performance of the work or any duty or authority to undertake responsibilities contrary to the provisions of the Contract Documents.

D. All drawings and conflicts within the Contract Documents shall be brought to the attention of Architect prior to proceeding with the work.

E. Contractor shall verify dimensions and conditions at the job site. Any discrepancies between the conditions found and those indicated in the Contract Documents shall be brought to the attention of Architect prior to proceeding with the work.

F. No pipe, ducts, chases, etc. shall be placed in structural beam and column members nor shall any structural member be cut for pipes, ducts, etc., unless noted otherwise. Notify Structural Engineer when Documents by other disciplines show openings, pockets, etc. not located in columns or beams. If located in structural members, Contractor shall obtain prior approval from Structural Engineer for installation of such pipes, ducts, chases, etc.

G. Details labeled "Typical" on the Structural Drawings apply to all situations occurring on Project that are the same or similar to those locations specifically indicated. Where a detail is not indicated, the Contractor shall provide it.

H. Contractor designed elements shall be designed by licensed Professional Engineers registered in the State where Project is located. Contractor shall submit Shop Drawings, design load data, support reactions, and certification that elements were designed for loads specified in the Contract Documents. If the Building Code, or other criteria noted, shall be sealed by the licensed Engineer, if criteria indicated are not sufficient, submit a written request for additional information to Architect. Following the elements and their connections shall be Contractor designed:

1. Standard bracing and shoring  
2. Standard steel joists  
3. Open web steel joists  
4. Cold-formed metal framing  
5. Stairs and Ladders  
6. Basketball Goals and Support Connections

### DIVISION 4 - DESIGN CRITERIA

A. The structure is designed in accordance with the BOCA National Building Code, 1994 Edition.

B. No provisions have been made for future horizontal or vertical expansion.

### C. Gravity Loads:

1. Uniform Live Loads:  
a. Live Load: 20 psf  
b. Snow Load:

1) Ground Snow Load: 20 psf  
2) Flat Roof Snow Load: 22 psf  
3) Wind Pressure Factor: 1.0  
4) Snow Impact Factor: 1.1  
5) Snow Thermal Factor: 1.0

2. Concentrated Lateral Live Loads:  
a. Handrails assemblies:  
1) Top Rail: 20 lb/ft applied non-concurrently  
2) Handrail: 10 lb/ft applied vertically  
3) Infill: 50 lb/ft applied over 1 sq. ft. applied non-concurrently with the top rail load.

b. Vehicle barrier systems: 6,000 lb/ft applied over an area of 1 sq. ft. at 18° above the floor.

D. Lateral Loads:

1. Wind Loads:  
a. Basic Wind Speed: 70 MPH  
b. Importance Factor: 1.15  
c. Exposure: C  
d. Internal Pressure Coefficient: 0.25

2. Earthquake Loads:  
a. Peak Velocity-Related Acceleration, Av: 0.13  
b. Peak Acceleration, Ag: 0.13  
c. Seismic Hazard Exposure Group: II  
d. Seismic Performance Category: C  
e. Seismic Design Type: S-6  
f. Basic Structure System: Building Frame  
g. Seismic Resisting System: Concentric Braced Frame  
h. Response Modification Factor, R: 5  
i. Deflection Amplification Factor, Cd: 4.5  
j. Analysis Procedure: Equivalent lateral force procedure

### DIVISION 2 - FOUNDATIONS

A. Foundation design is based upon recommendations in the geotechnical report prepared by Professional Service Industries, Inc. dated 5 December 2002. Structural Engineer is not responsible for subsurface conditions encountered in the field that are different from those assumed in design.

B. Owner's Geotechnical Representative shall certify the bearing medium. Excavations shall be kept free of loose material and standing water.

C. Individual spread footings and continuous footings shall bear on and be formed by clean, undisturbed, virgin, sub-soil or compacted engineered fill with an allowable bearing pressure of 3000 psf and 2500 psf, respectively.

D. Individual spread footings shall bear on rock. Undercut rock a minimum of 2 feet below the bottom of footing and replace with compacted engineered fill.

### DIVISION 3 - CONCRETE

#### 3.1 REINFORCING

##### A. GENERAL

1. Reinforcing steel shall be ASTM A615, Grade 60, deformed bars, unless noted otherwise. Welding of ASTM A615, Grade 60 reinforcing is not allowed.

2. Metal deck fabric shall be ASTM A185 and shall be contact lap spliced two full wire spaces.

3. All reinforcing bars shall be detailed, fabricated, supported, and placed in accordance with ACI 315-94 "Details and Detailing of Concrete Reinforcement" and GRCI's "Manual of Standard Practice," 1986.

4. Rebar spacing, including dowels, shall be securely tied and cast with the lower member. Placing reinforcing after concrete has been placed is not permitted.

5. Field bending of reinforcing partially embedded in concrete is not allowed unless specifically noted in the Structural Drawings or notes.

6. Provide dowels from foundation the same grade, size, and number as vertical wall or column reinforcing, unless noted otherwise.

7. Provide corner bars to match horizontal reinforcing at corners and intersections.

8. Mechanical couplers shall be uni-axial type capable of developing 125% of the specified yield strength of the bar in tension.

9. All reinforcement shall be contact lap spliced or dowled as follows:

#3 bars -- 20"	#7 bars -- 9"
#4 bars -- 37"	#8 bars -- 93"
#5 bars -- 47"	#9 bars -- 105"
#6 bars -- 56"	#10 bars -- 118"
#8 bars -- 131"	

##### B. WALLS

1. Provide #4 at 12° o.c. horizontal and vertical in each face of all walls 10' and thicker, unless noted otherwise.

2. Provide #4 at 12° o.c. horizontal and vertical at center of all walls 6' and thinner, unless noted otherwise.

##### C. BEAMS

1. Provide 2-#5 stirrup spacers in all beams.

##### D. SLABS

1. Provide slab bolsters, high chairs, and #5 support bars as necessary to control proper placement of reinforce.

2. Provide 2-#5 stirrups in diagonal corners of openings and re-entrant corners, unless noted otherwise.

##### E. CAST IN-PLACE CONCRETE

1. Reinforced concrete shall have the following minimum 28-day compressive strengths:

1) Column: A 2000 psi normal weight concrete

2) Class B 4000 psi normal weight concrete

##### F. PLACE CONCRETE AS FOLLOWS:

1. Class A:  
a. Spread Footings  
b. Housekeeping pads

2. Class B:  
a. Foundation walls  
b. Slab-on-grade

3. All concrete to have the following unit weights (+/- 3 psf):

Normal weight concrete: plastic = 145 psf

D. All concrete shall be exposed to freezing and thawing and deicer chemicals shall have 60% (+18°-158°) air entrainment. Do not air entrain concrete to be trowel finished.

E. Provide concrete cover for reinforcing as follows:

1. Concrete exposed against and permanently exposed to earth.....3"

2. Concrete exposed to earth or weather.....2"

3. Concrete exposed to weather or in contact with ground.....3 1/4"

F. Provide construction control joints in slab-on-grade as indicated in the Structural Drawings. If joint pattern is not indicated, provide joints approximately 10 feet (-/-) in both directions and located to control the base position wherever possible (at column centerlines, half bays, third bays, etc.).

G. Construction joints in walls shall be keyed and placed at locations approved by Architect and Structural Engineer.

H. Locate construction joints for joists, beams, girders, and slabs in areas of 1/3 to 1/2 of the total width of the structure. Offset joints in a girder at least twice the beam width from a beam/girder intersection.

##### I. ANCHORS TO CONCRETE AND MASONRY

1. Anchors shall be adhesive anchors, unless noted otherwise.

2. Adhesive anchors shall be Hilli HIT adhesive anchors or approved equal. Use Hilti HIT adhesive when anchoring into solid base material. Use 20 adhesives plus a screw type when anchoring to through hollow base material. Anchors shall be galvanized, except provide galvanized anchors where supported item is galvanized.

3. When installing anchors, do not cut existing reinforcement. Install anchors to accommodate the standard hole size in steel.

4. Adhesive and embedment depth shall be as follows, unless noted otherwise:

3/8" dim. : 3-1/2" embedment
1/2" dim. : 4-1/4" embedment
5/8" dim. : 5" embedment
3/4" dim. : 6-5/8" embedment
1" dim. : 8-1/4" embedment

##### J. STEEL JOISTS

#### A. GENERAL

1. Steel joists without specified chord size or designated as SP shall be designed by Contractor for the superimposed loads indicated on the Structural Drawings. The total service load in pounds per linear foot of joist, including dead load, live load, wind load, snow load, and guy is the live load in pounds/ft. Loads indicated do not contain allowance for the self weight of the joists.

2. Steel joists shall have bridging sized and spaced in accordance with SJI Standard Specifications.

3. Steel joists shall be designed for a minimum net uplift of 4 psf in field of root and 7 psf within 5'-0" strip adjacent to root edges.

#### B. K-SERIES JOISTS

1. Steel K joists shall be designed, fabricated, and erected in accordance with SJI Standard Specifications for Open Web Steel Joists.

2. Steel K joists shall have a minimum bearing length of 2-1/2" on steel supports. Each joist, unless noted otherwise, shall be field welded to the supporting steel with two 1" long x 1/8" fillet welds.

#### C. LONGSPAN LH-SERIES AND DLH-SERIES STEEL JOISTS

1. Steel LH and DLH joists shall be designed, fabricated, and erected in accordance with SJI Standard Specifications for Longspan Steel Joists, LH-Series and Deep Longspan Steel Joists, DLH-Series.

2. Steel LH and DLH joists shall have a minimum bearing length of 4" on steel supports. Each joist, unless noted otherwise, shall be field welded to the supporting steel with two 2" long x 1/4" fillet welds.

3. Field bolt joists located at columns for stability during erection with 3/4" diameter bolts.

#### D. CONCRETE MASONRY

##### 4.1 REINFORCING

A. Reinforcing steel shall be ASTM A615, Grade 60, deformed bars, unless noted otherwise. Welding of ASTM A615, Grade 60 reinforcing is not allowed.

B. Joint reinforcing shall be truss type conforming to ASTM A451, with prefabricated corner and tee units at corners and intersections.

C. Dens to supporting structure shall be same grade, size, and number as concrete.

D. Provide corner bars to match horizontal reinforcing at corners and intersections.

##### E. Vertical reinforcement shall be centered in wall, unless noted otherwise.

F. Reinforcing shall be capped 40 bar diameters with contact lap splices.

G. Reinforce concrete masonry vertically with #5 rebar full height at 32° o.c., unless noted otherwise.

H. Space joint reinforcement shall be centered in wall, unless noted otherwise.

I. Reinforce concrete beams with 2-#5 rebars continuous, unless noted otherwise.

J. Provide (2) #5 rebar at top and bottom of openings, to extend a minimum of 30" beyond the opening and (2) #5 vertical bars in jamb of all openings full height of wall, unless noted otherwise.

##### K. CONCRETE MASONRY

#### 4.2 CONCRETE MASONRY

A. Concrete masonry units shall be ASTM C60, lightweight.

B. Provide concrete masonry that develops the following minimum net-area compressive strength (f'm) at 28-days: 2000 psf.

C. Mortar shall be of the following types:

1) Mortar for thin brick: Type M  
2) Mortar for thick brick: Type S

D. Grout shall conform to ACI 446. Grout shall be proportioned with a slurry of 8" to 11" using 3/8" nominal maximum size coarse aggregate.

E. Grout vertical reinforced cells and bond beams solid.

F. Grout concrete masonry below grade solid. Grout cavities of multi-wythe walls below grade.

G. All vertical cells to be grouted shall have vertical alignment to maintain a continuous non-vibrated cell area not less than 2" x 3".

H. Grout three courses of concrete masonry supporting steel. Bottom course shall be a bond beam.

I. Conducts, pipes, and sleeves shall be no closer than 3 diameters.

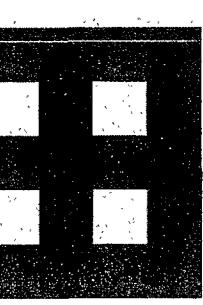

J. Maximum area of vertical conduits, pipes, or sleeves placed in columns or pilasters shall not displace more than 2 percent of the net cross section.

#### DIVISION 5 - METALS

##### 5.1 STRUCTURAL STEEL

A. General





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CHECKED BY: MK  
DATE: NOVEMBER 1, 2002

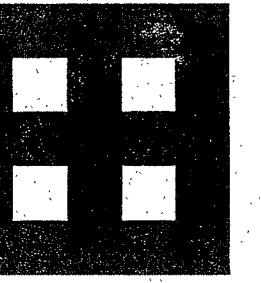
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PROJECT:  
ADDITION AND RENOVATIONS TO  
**Mcknight Road**  
Church of Christ

2515 SOUTH MCKNIGHT ROAD  
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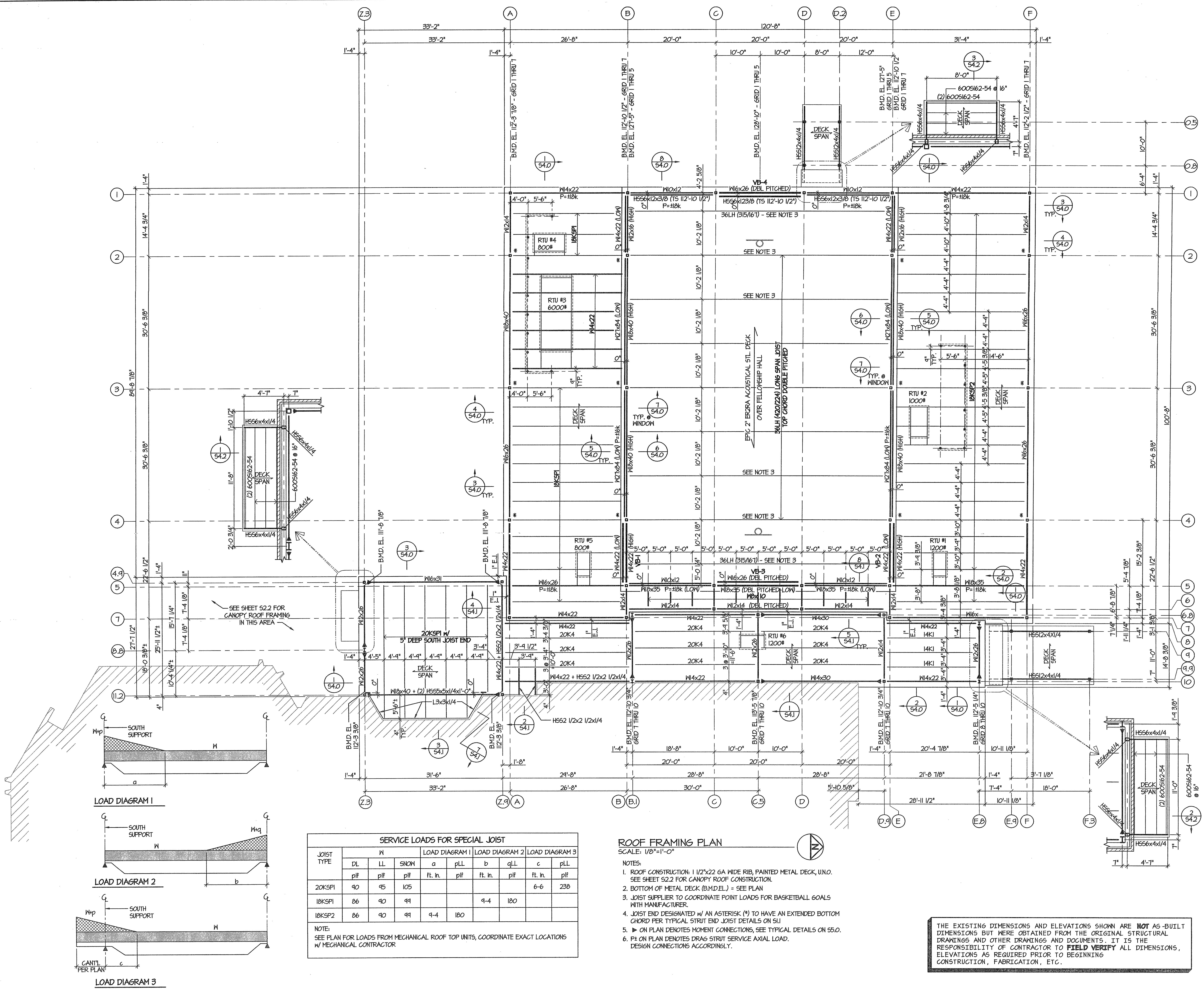
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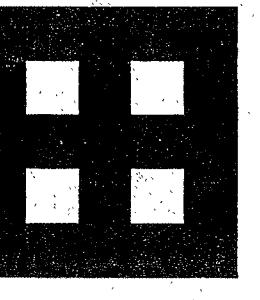
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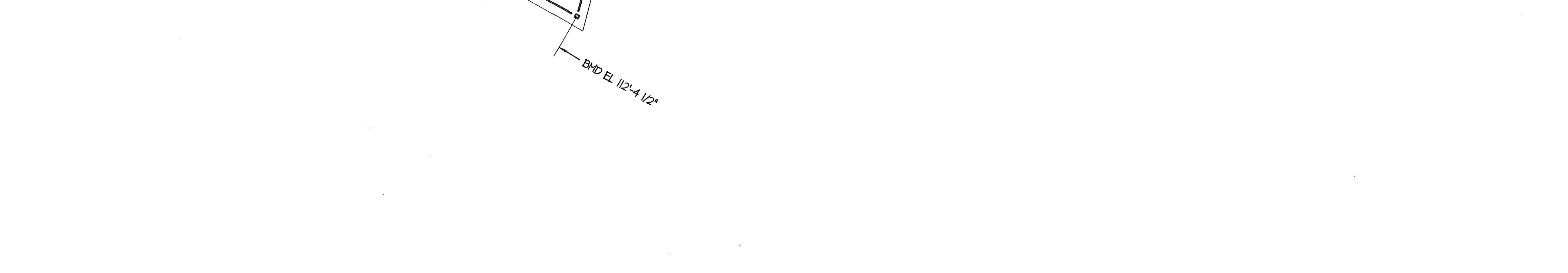
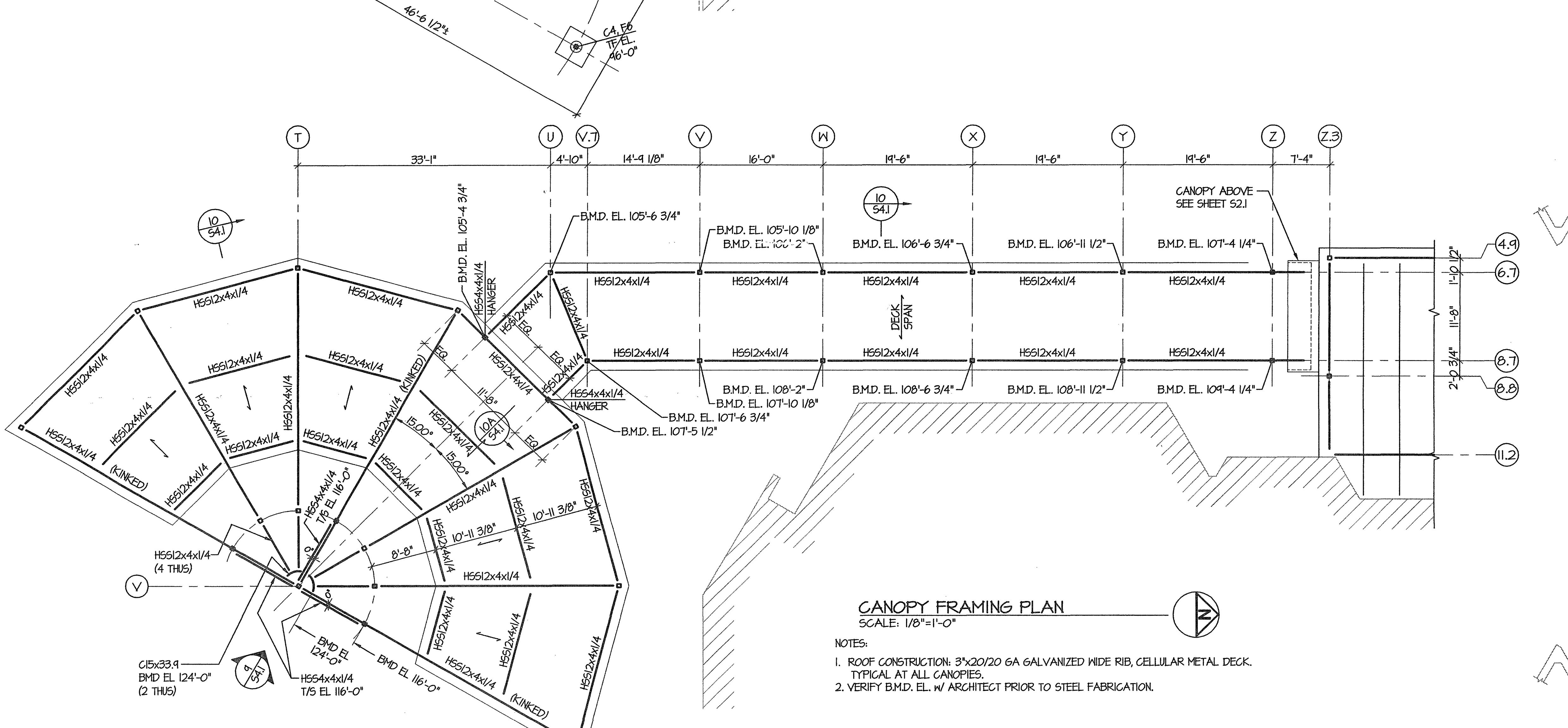
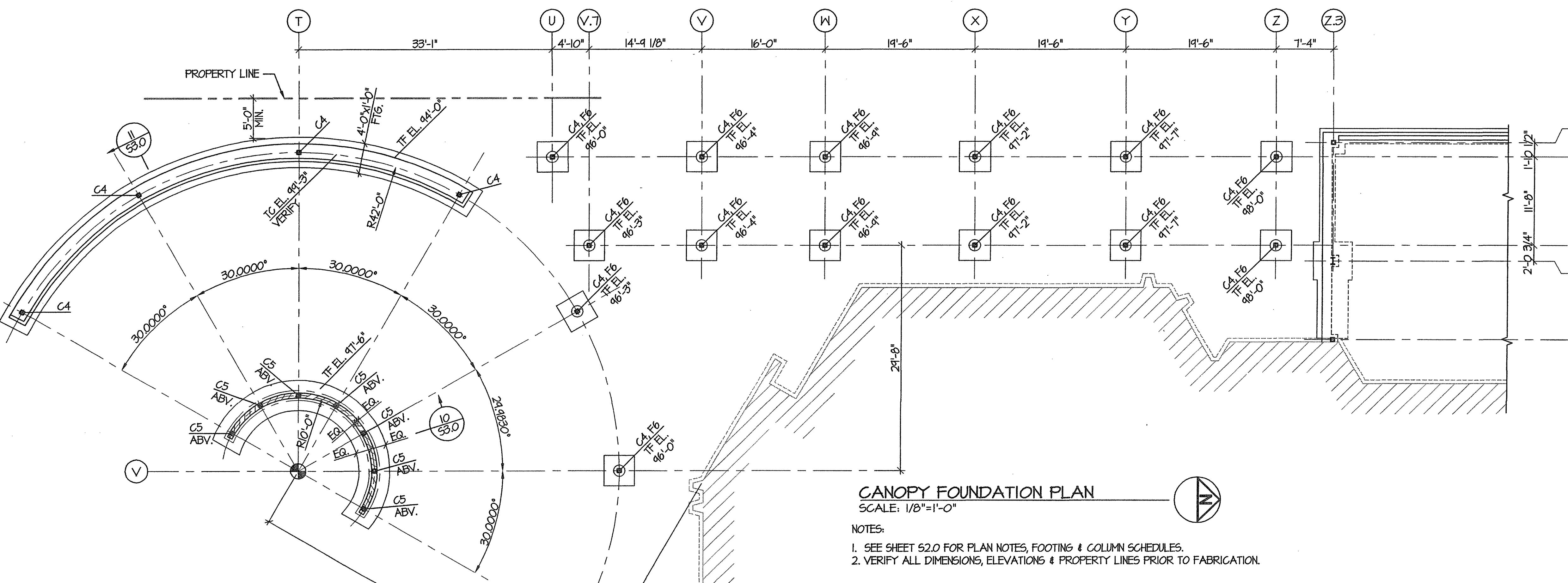
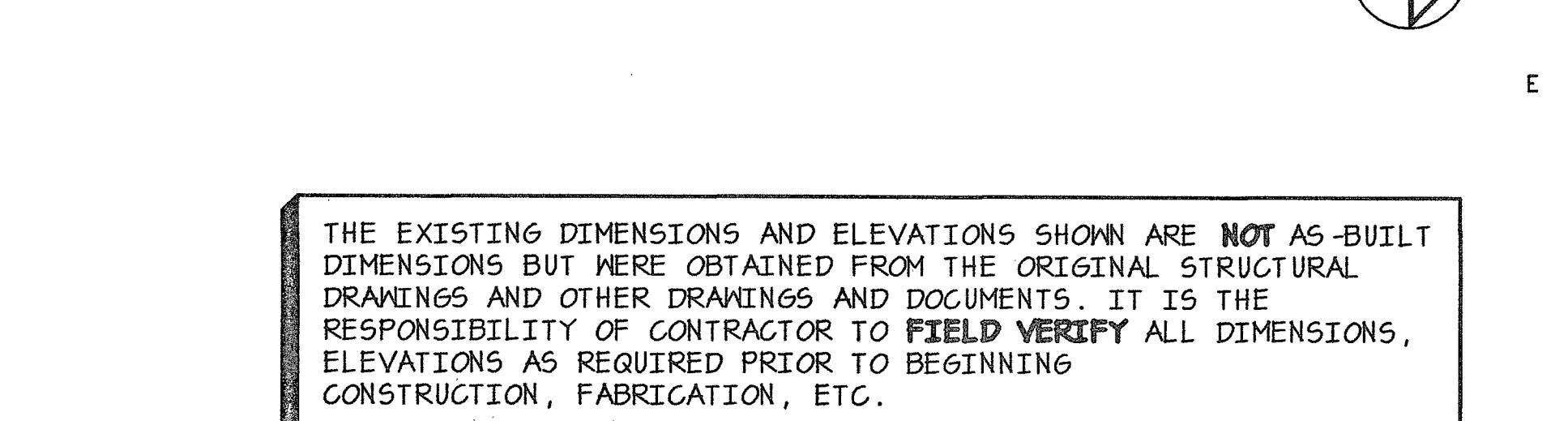
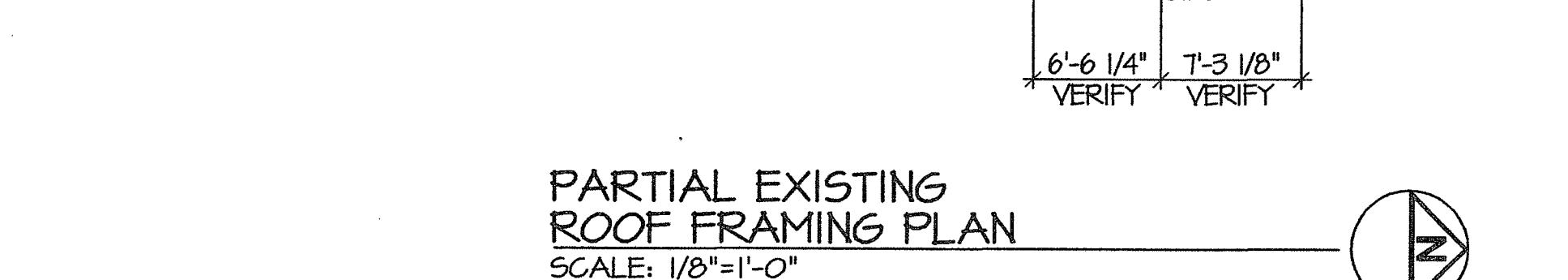
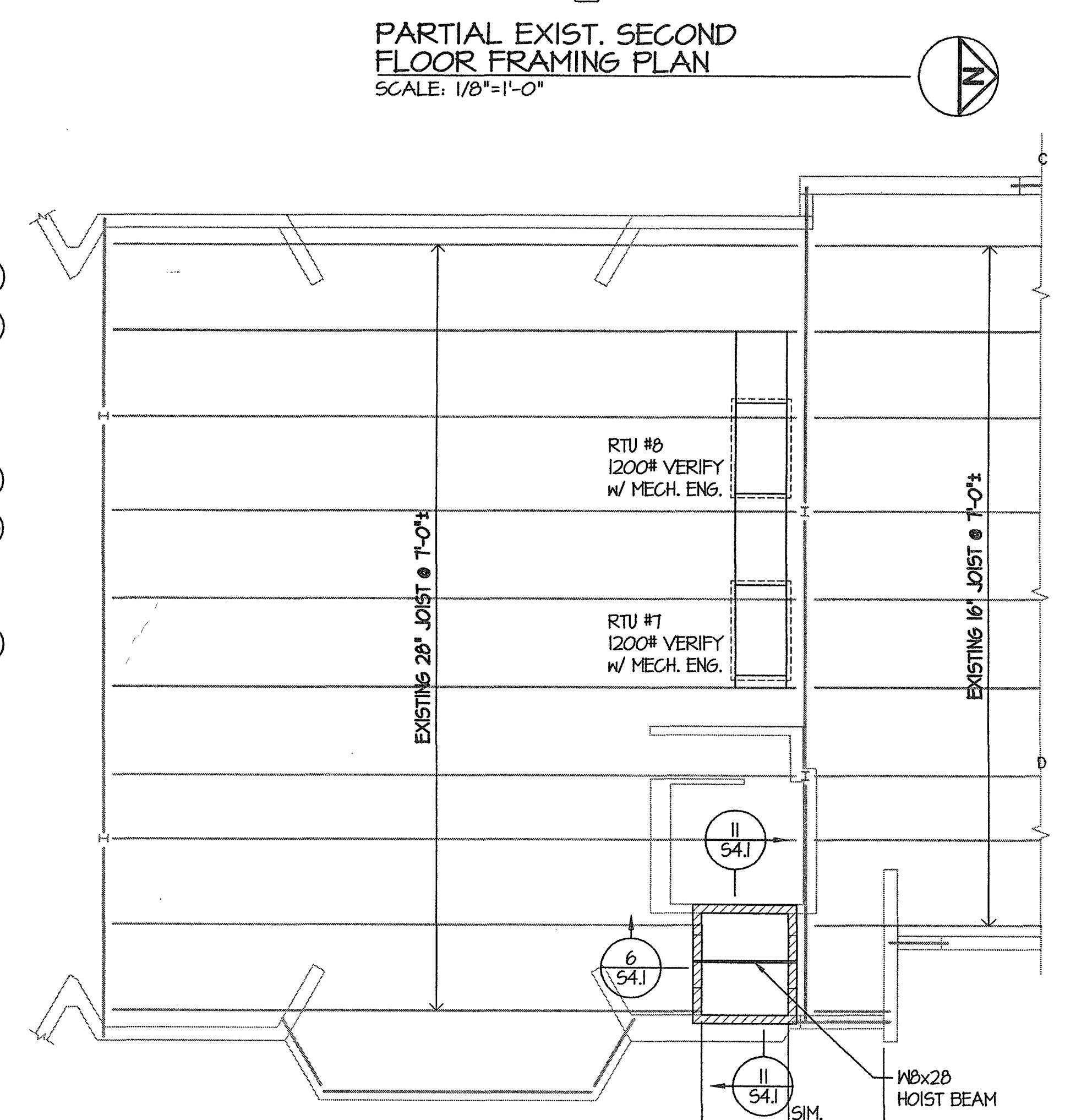
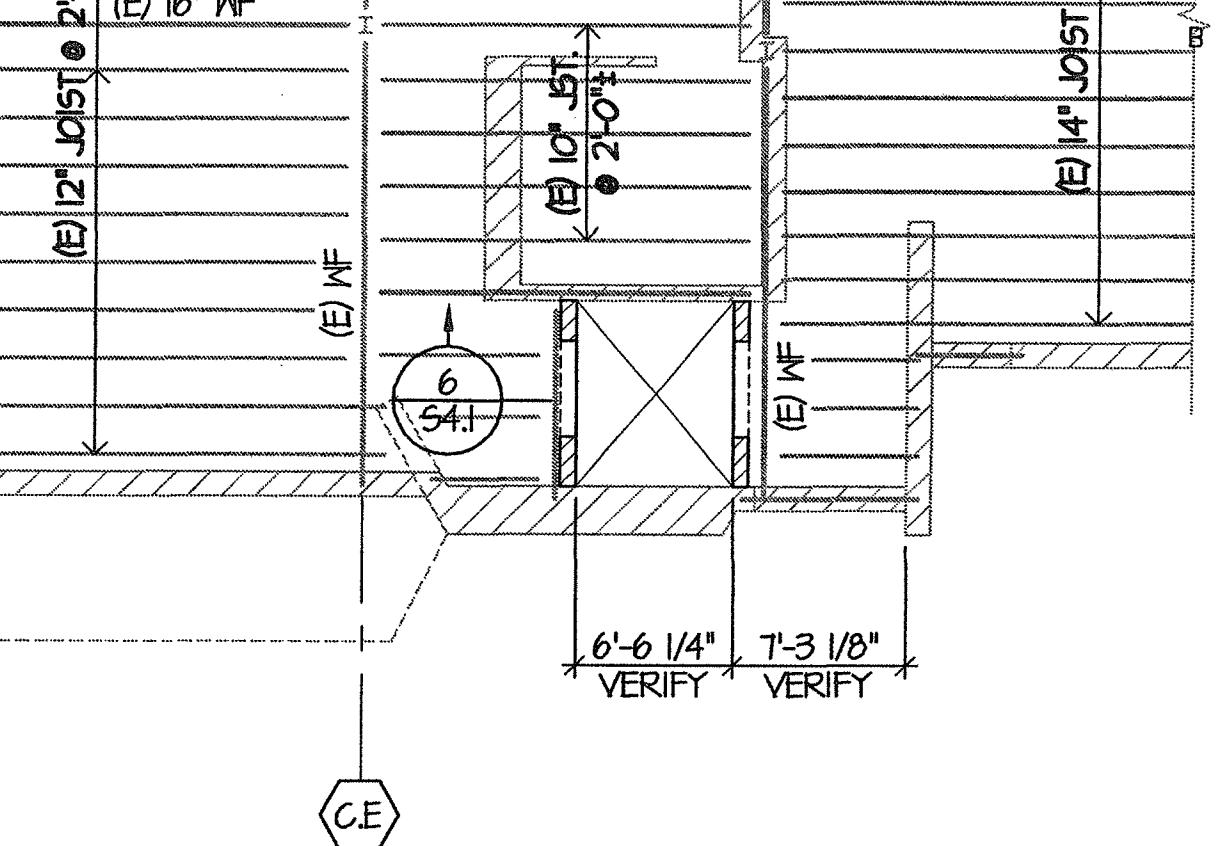
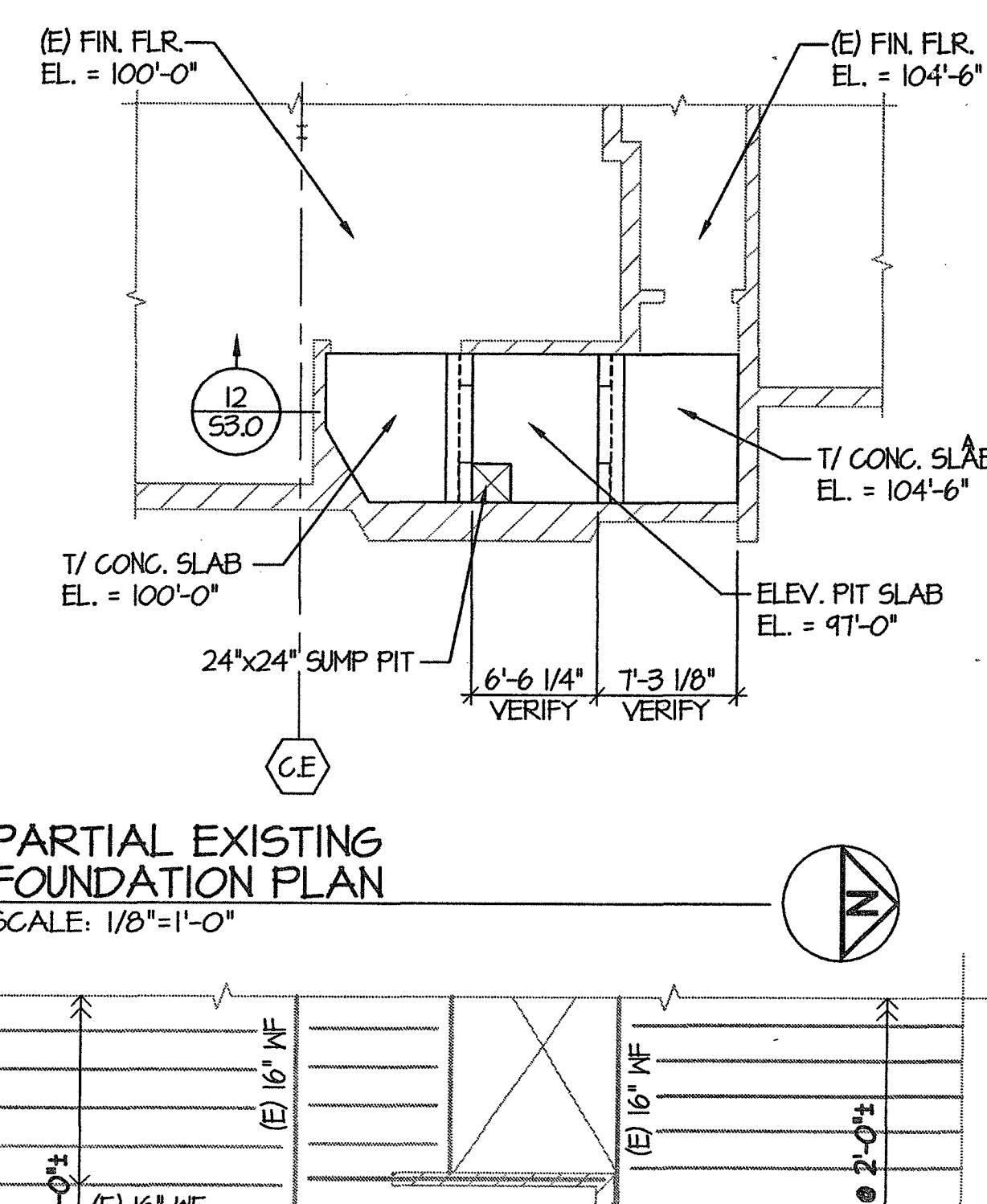
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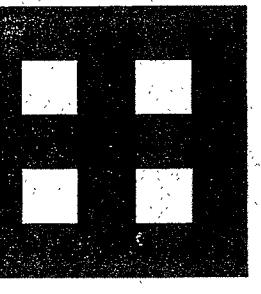
**McKnight Road**

Church of Christ

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church of Christ

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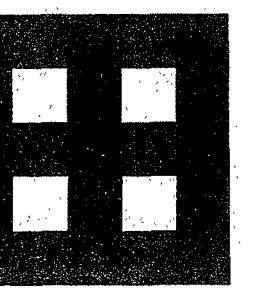
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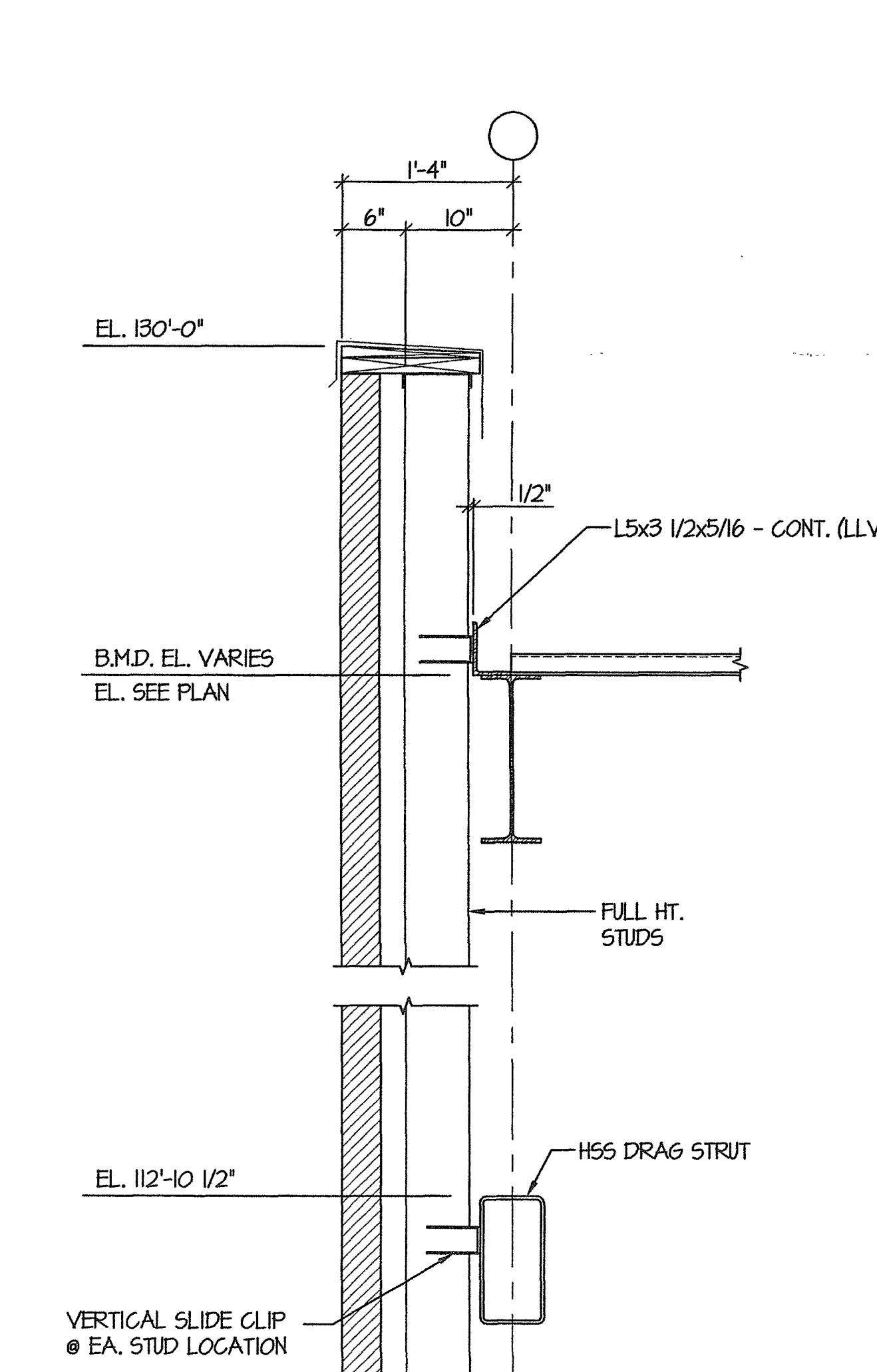
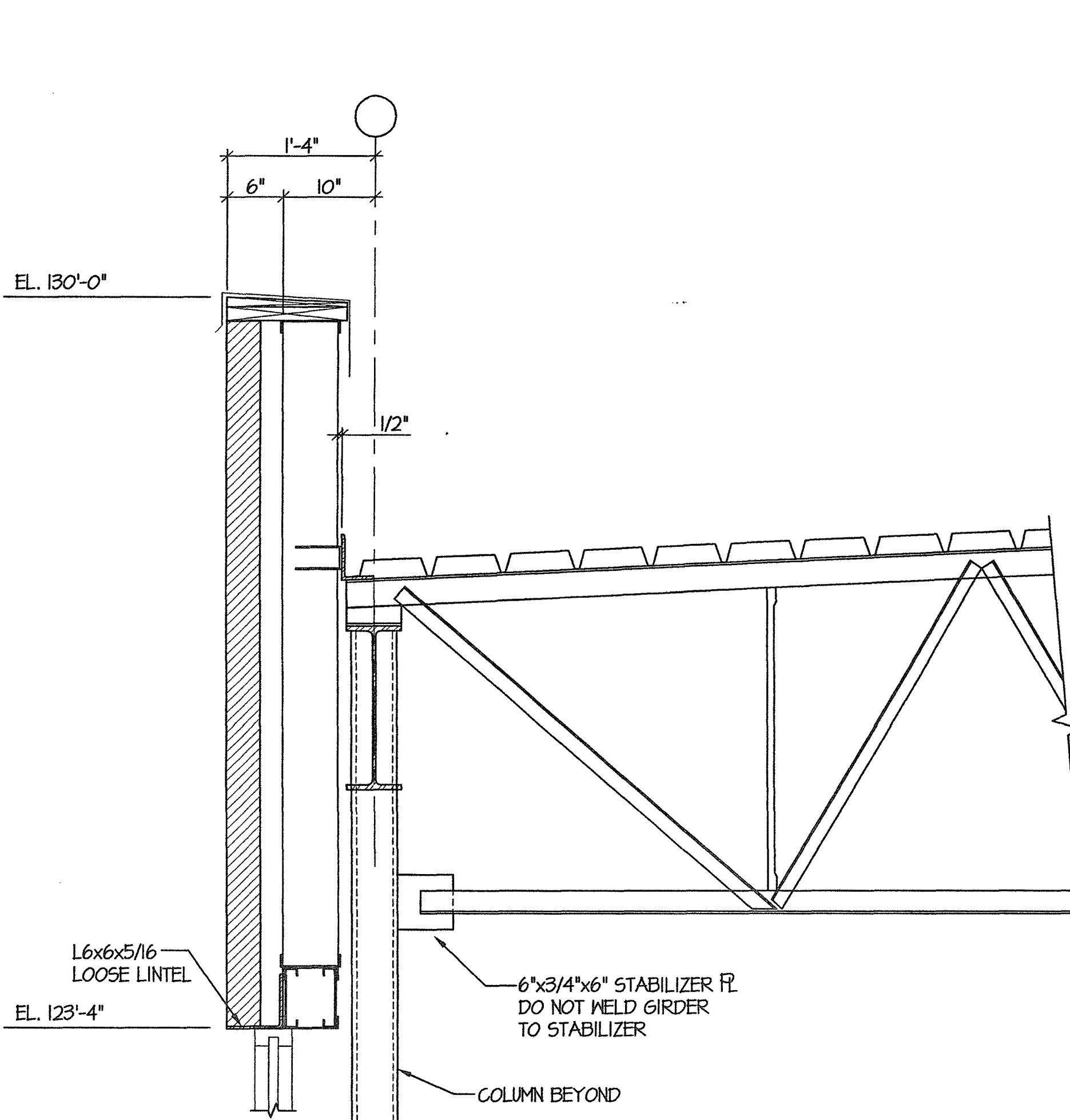
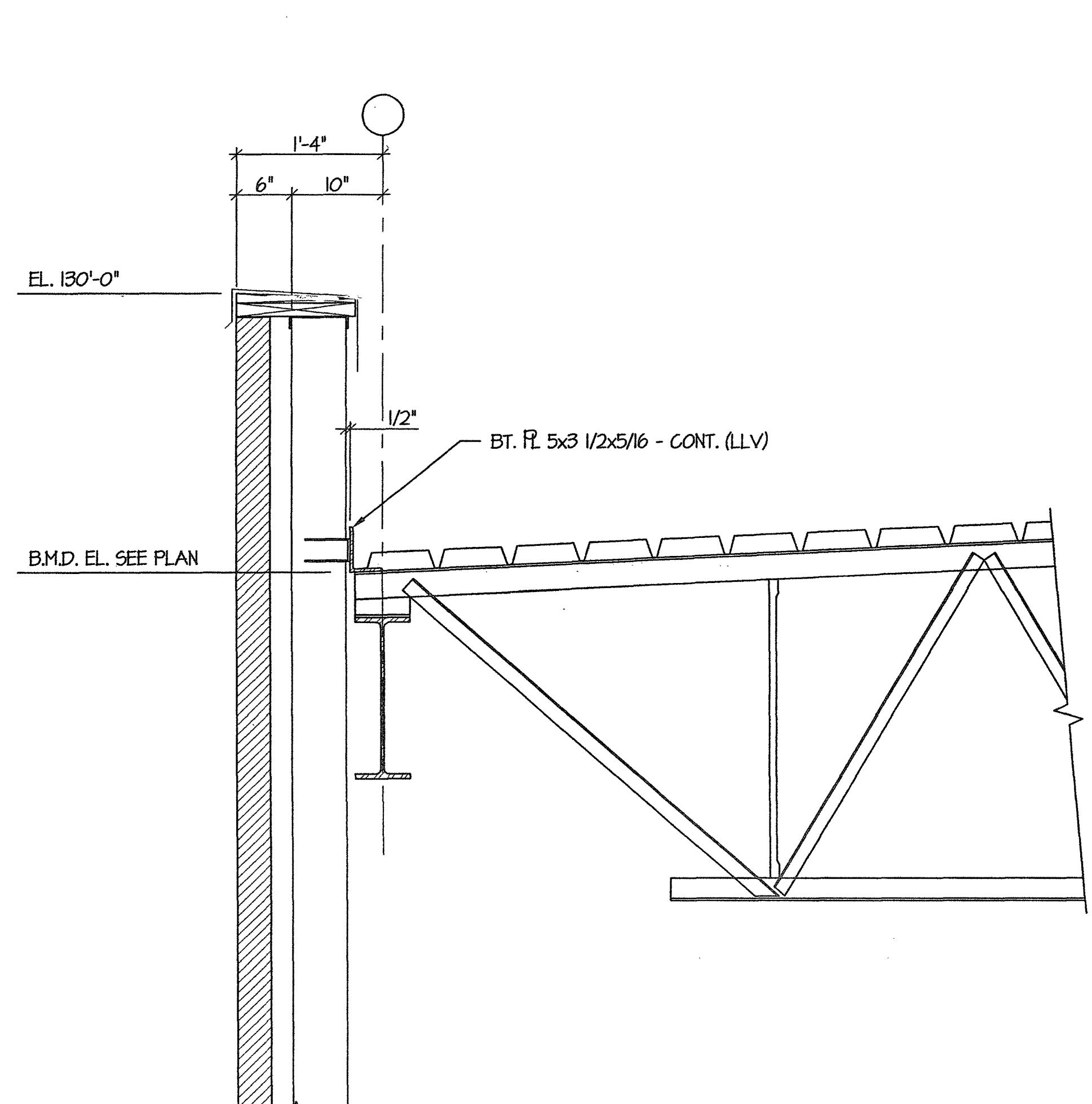
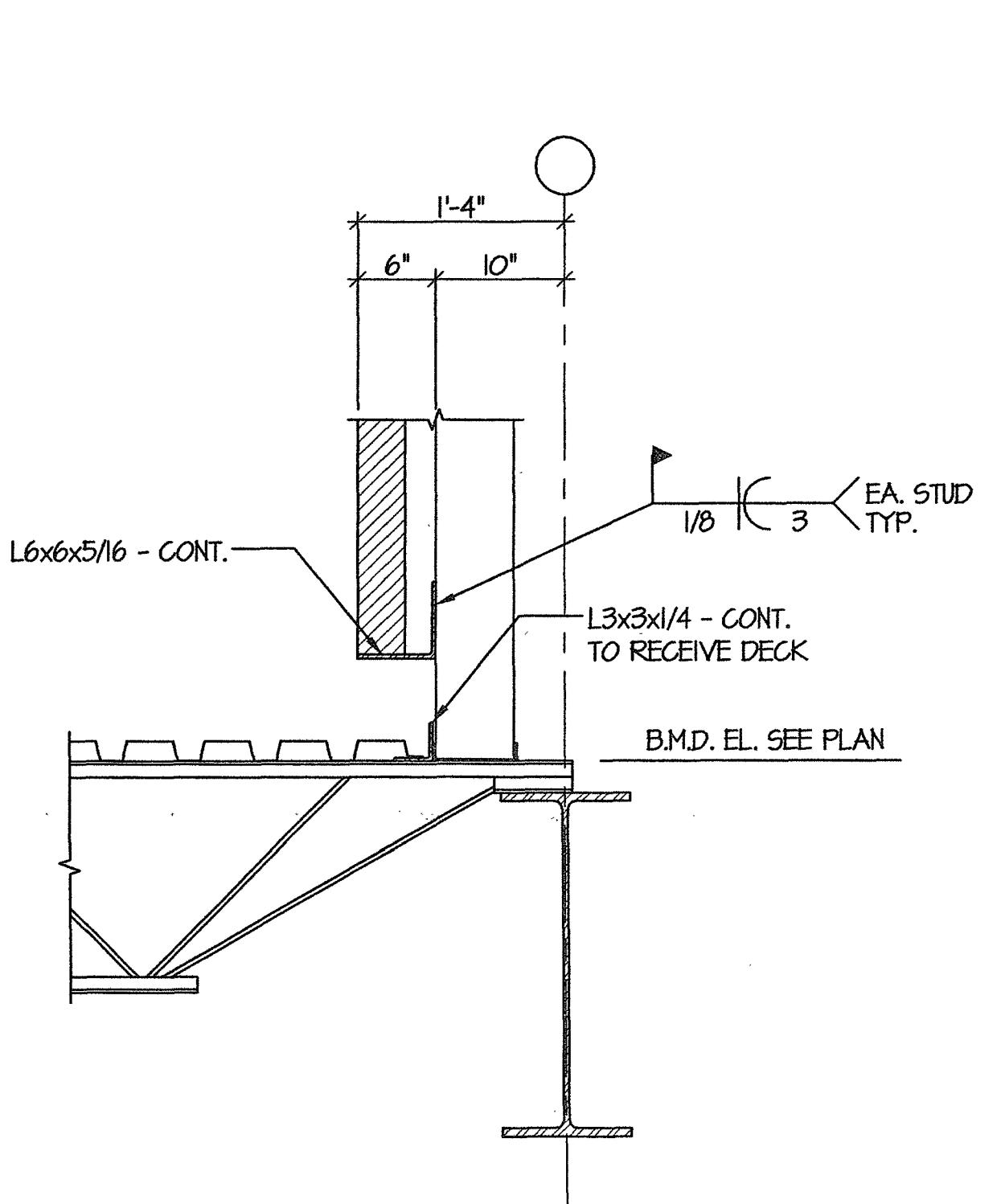
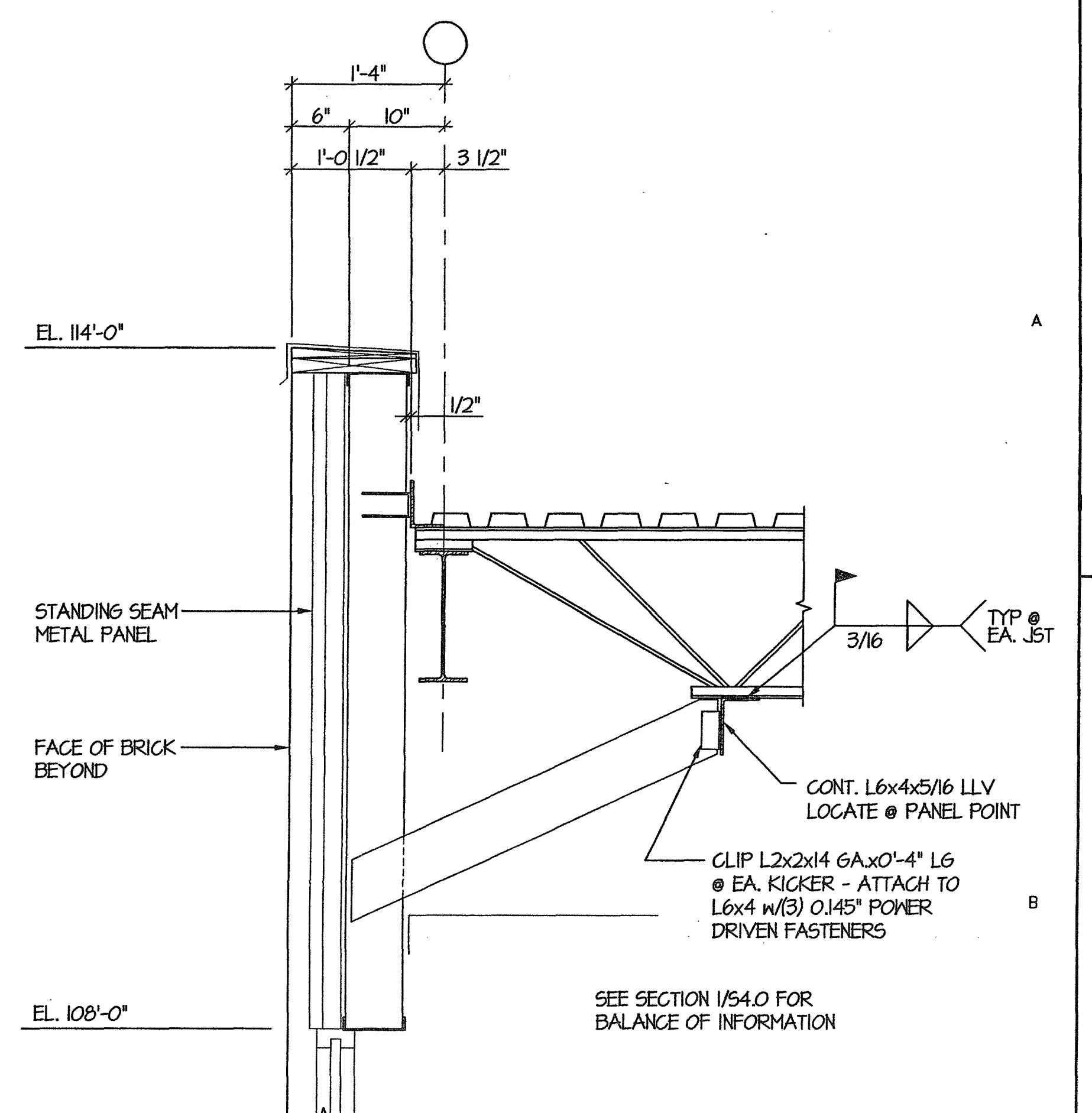
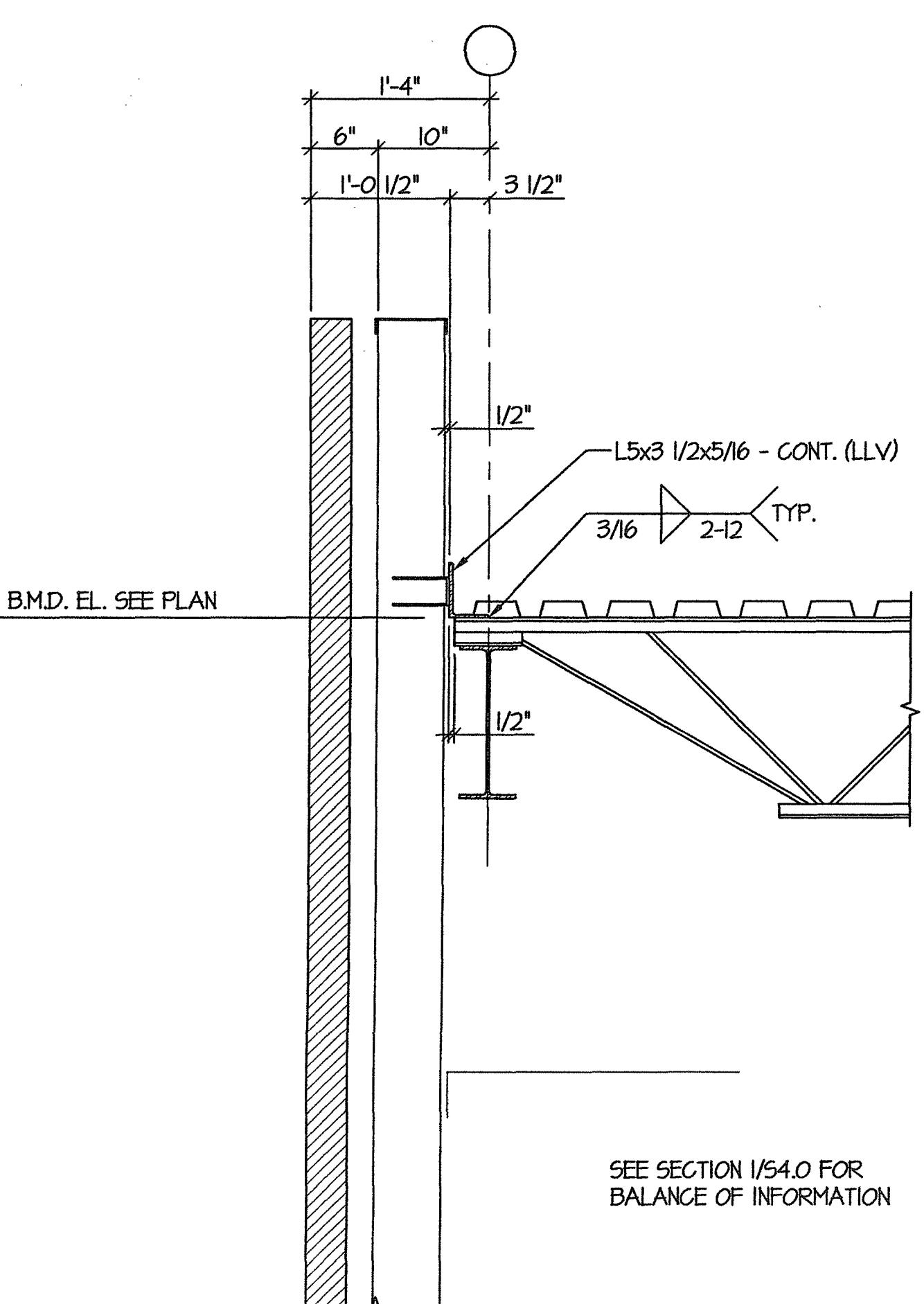
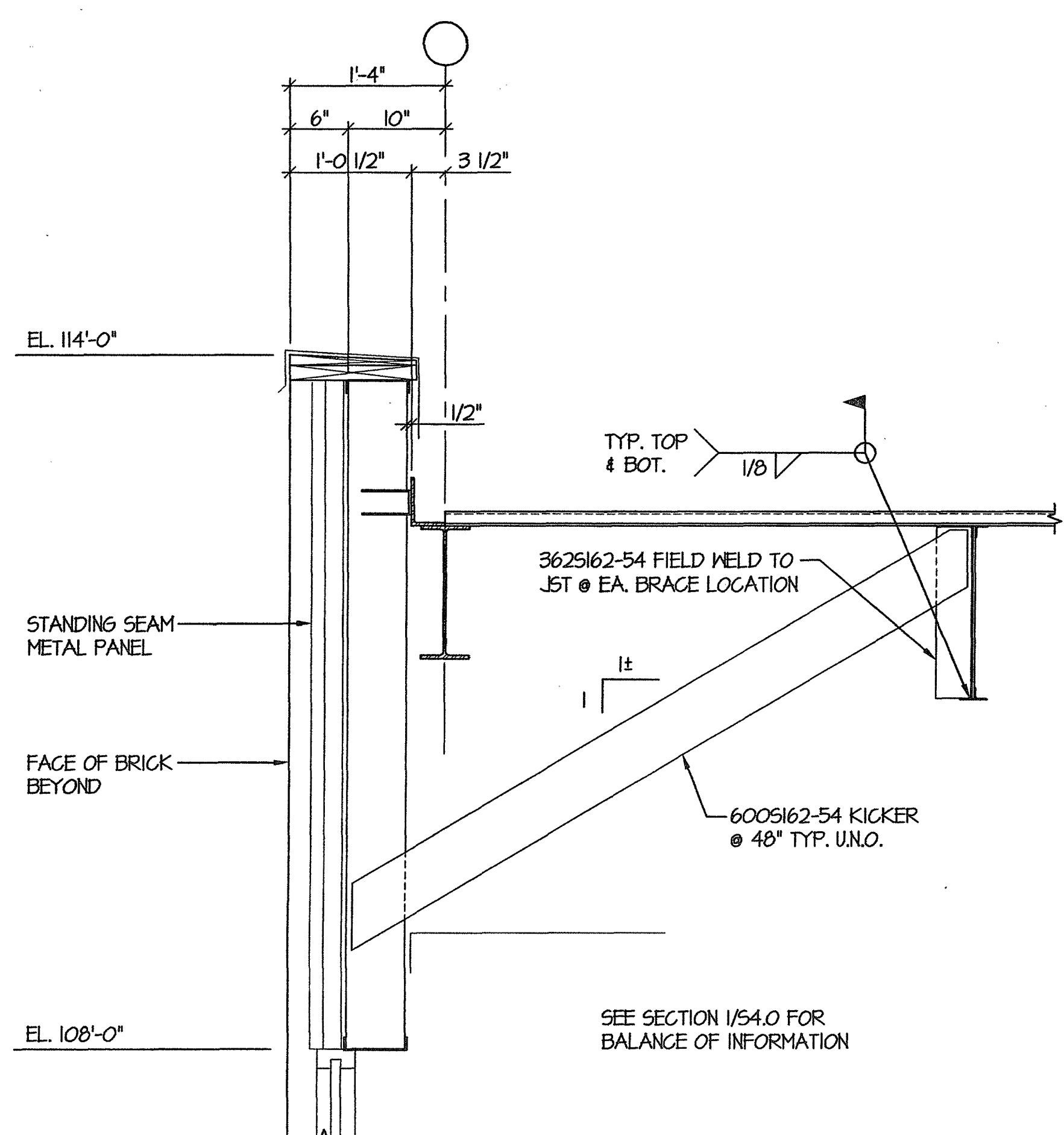
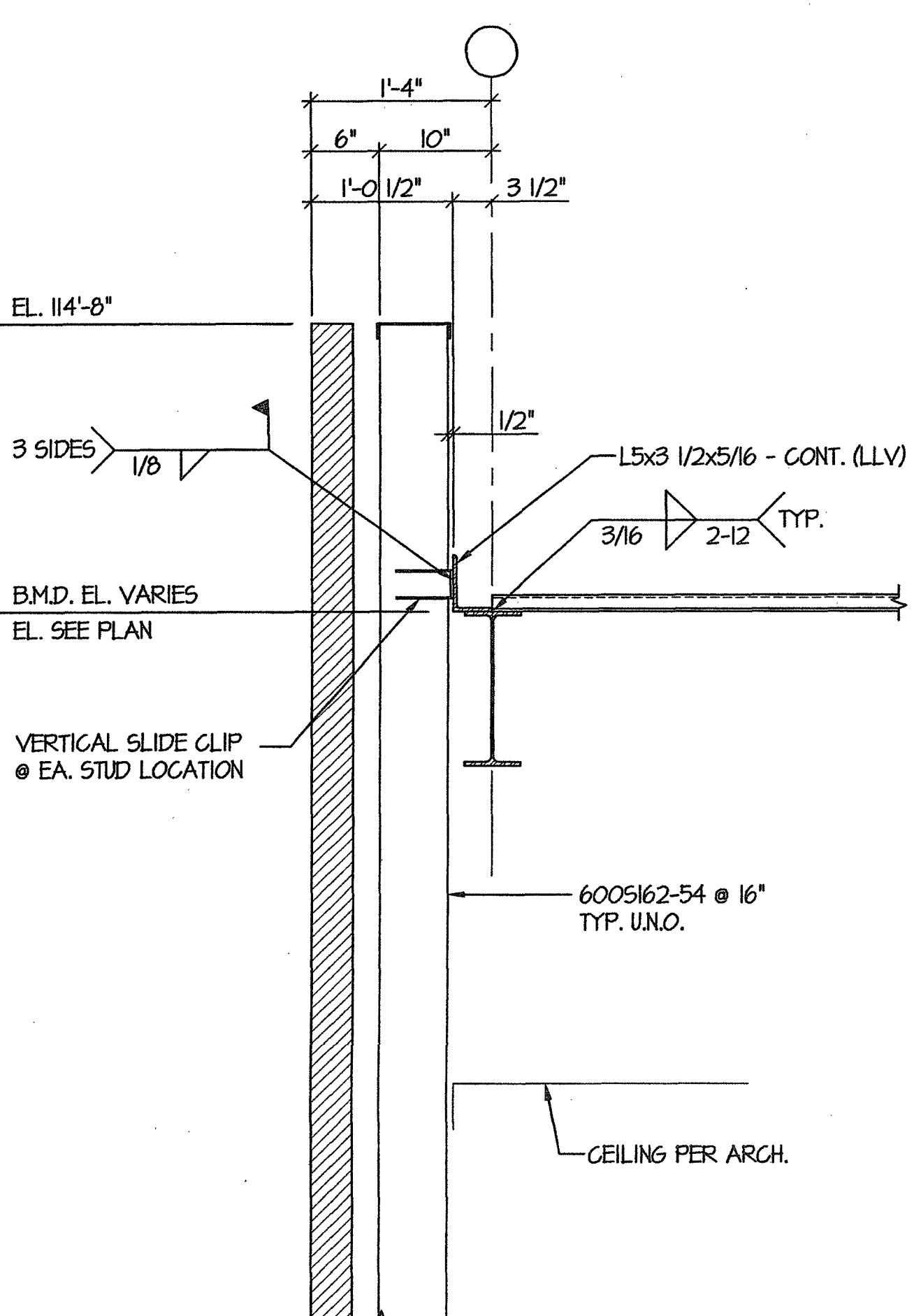
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**PROJECT:  
ADDITION AND RENOVATIONS TO  
McKnight Road  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124**



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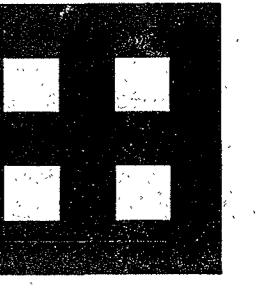
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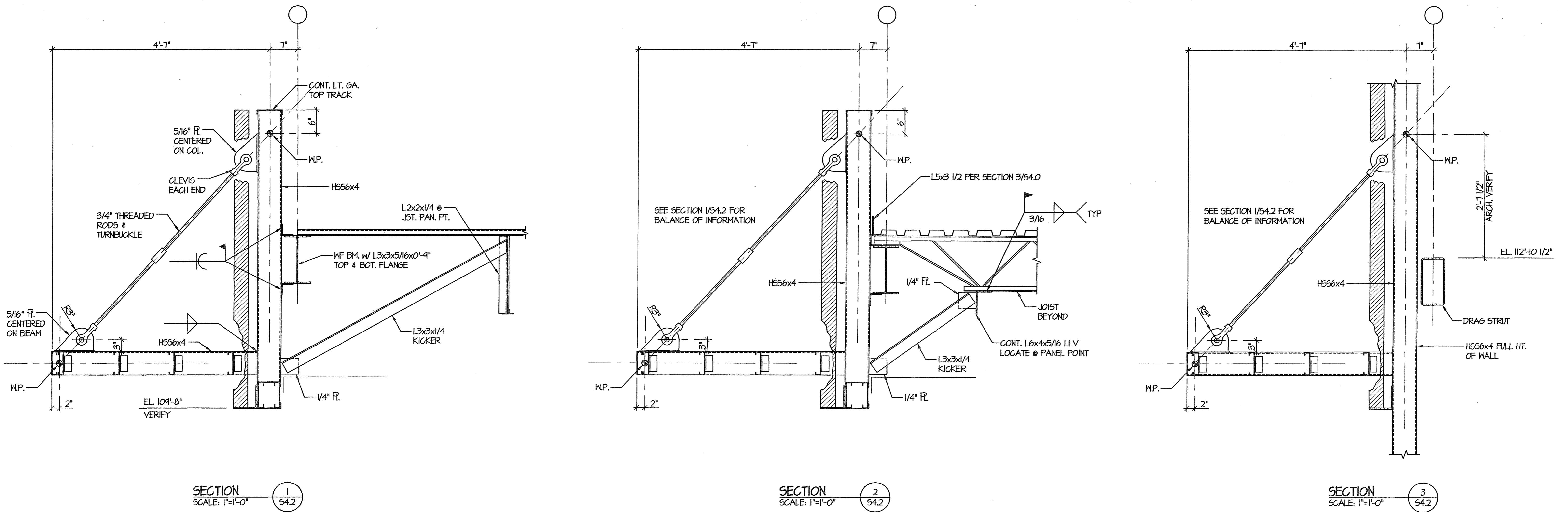
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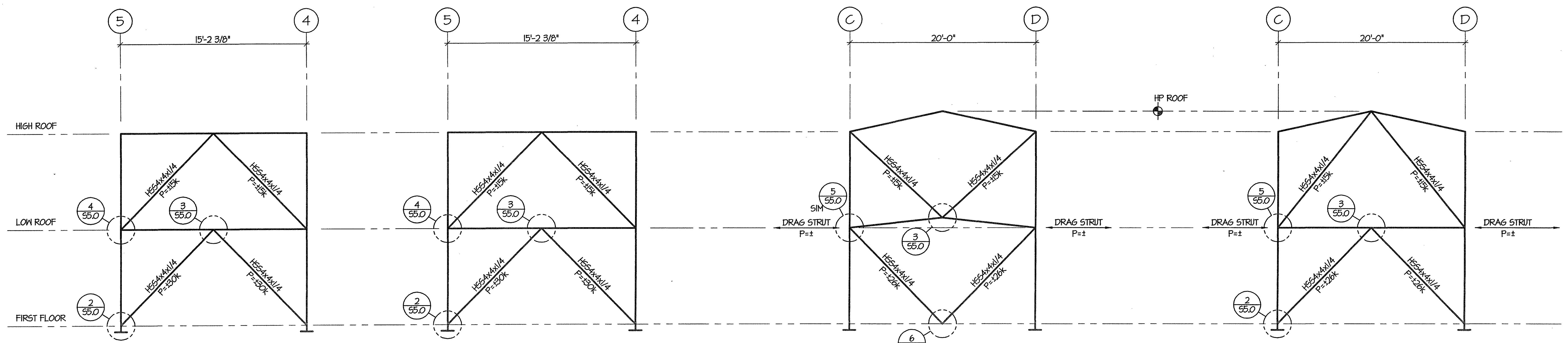
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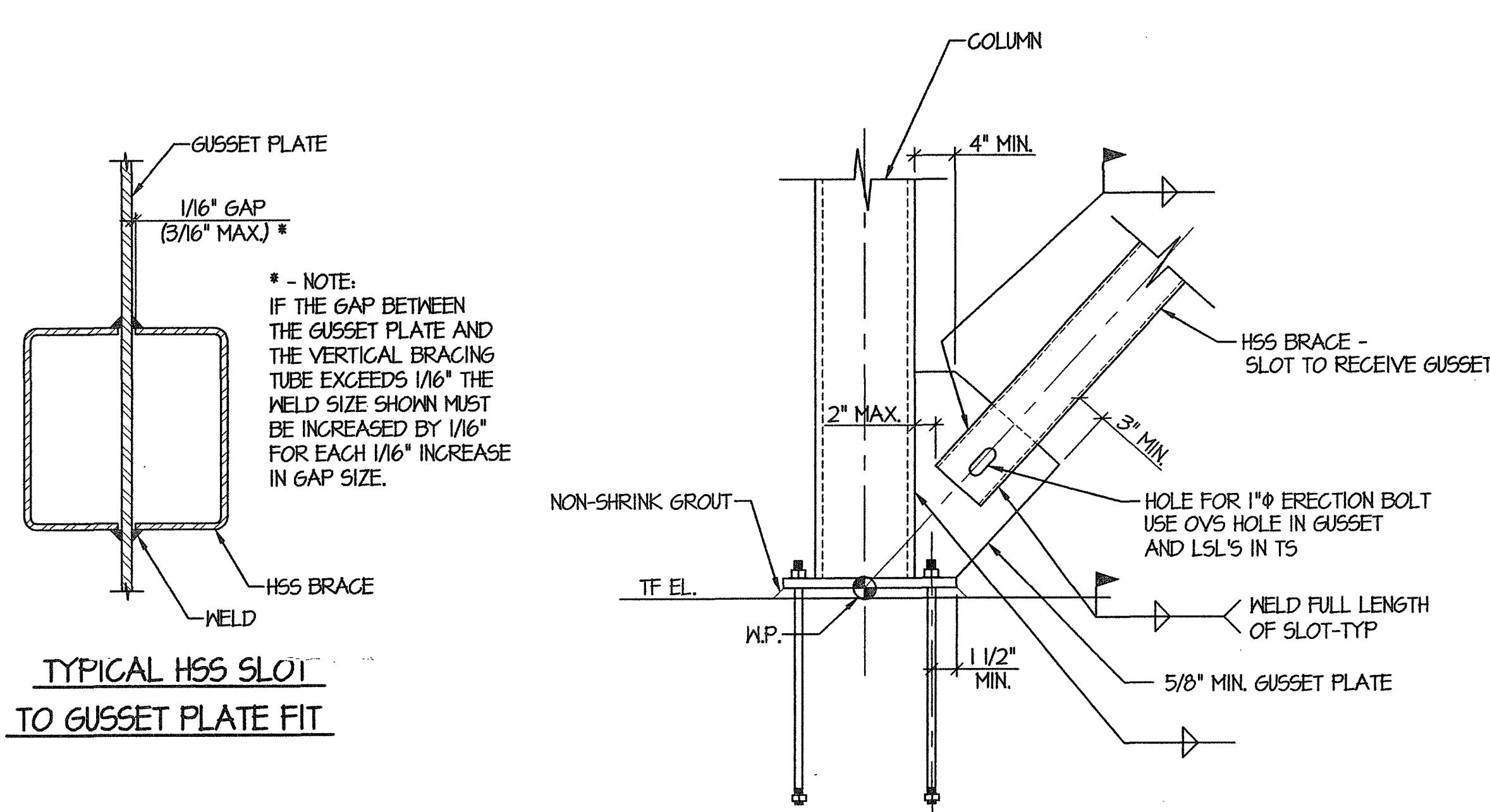
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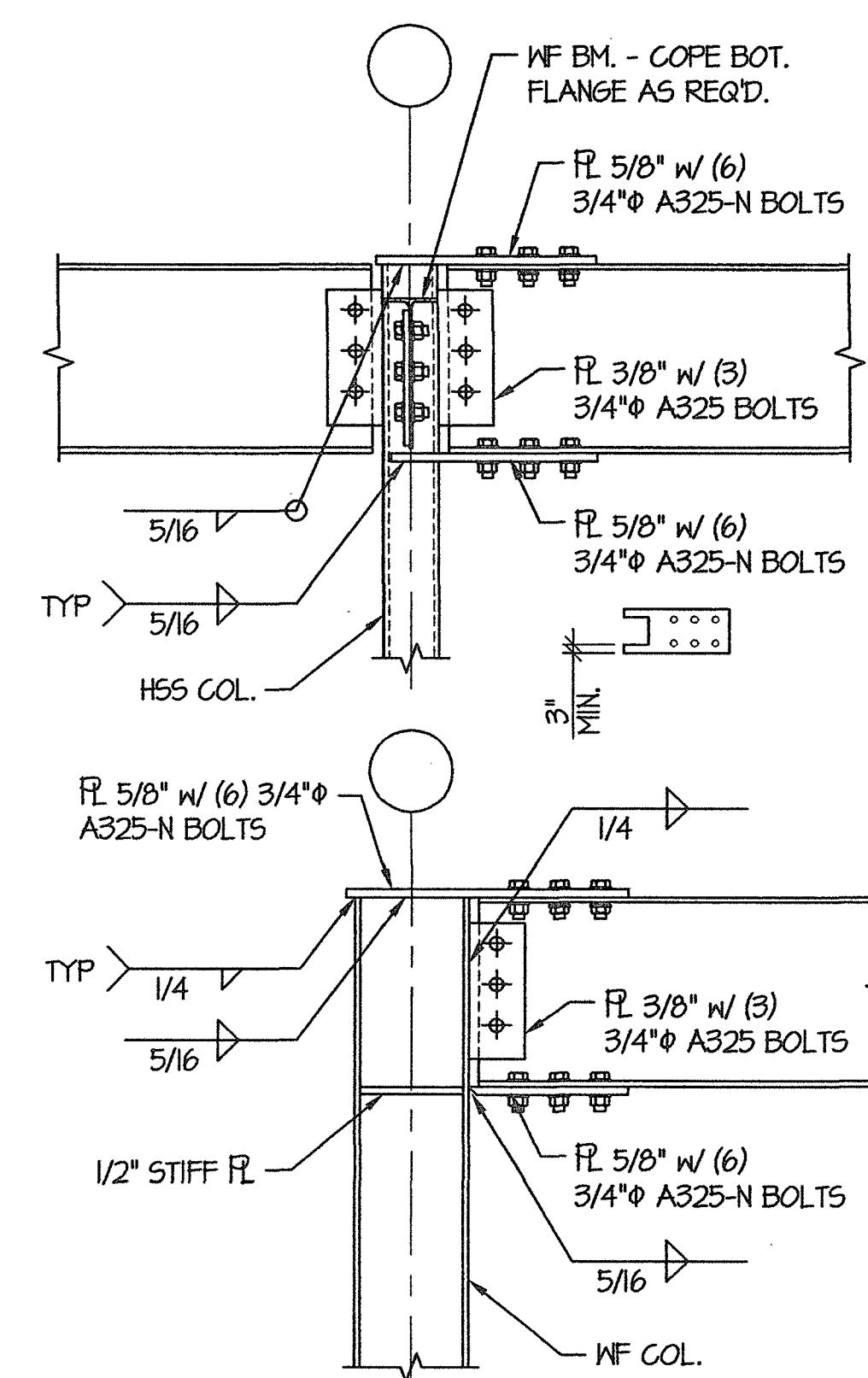
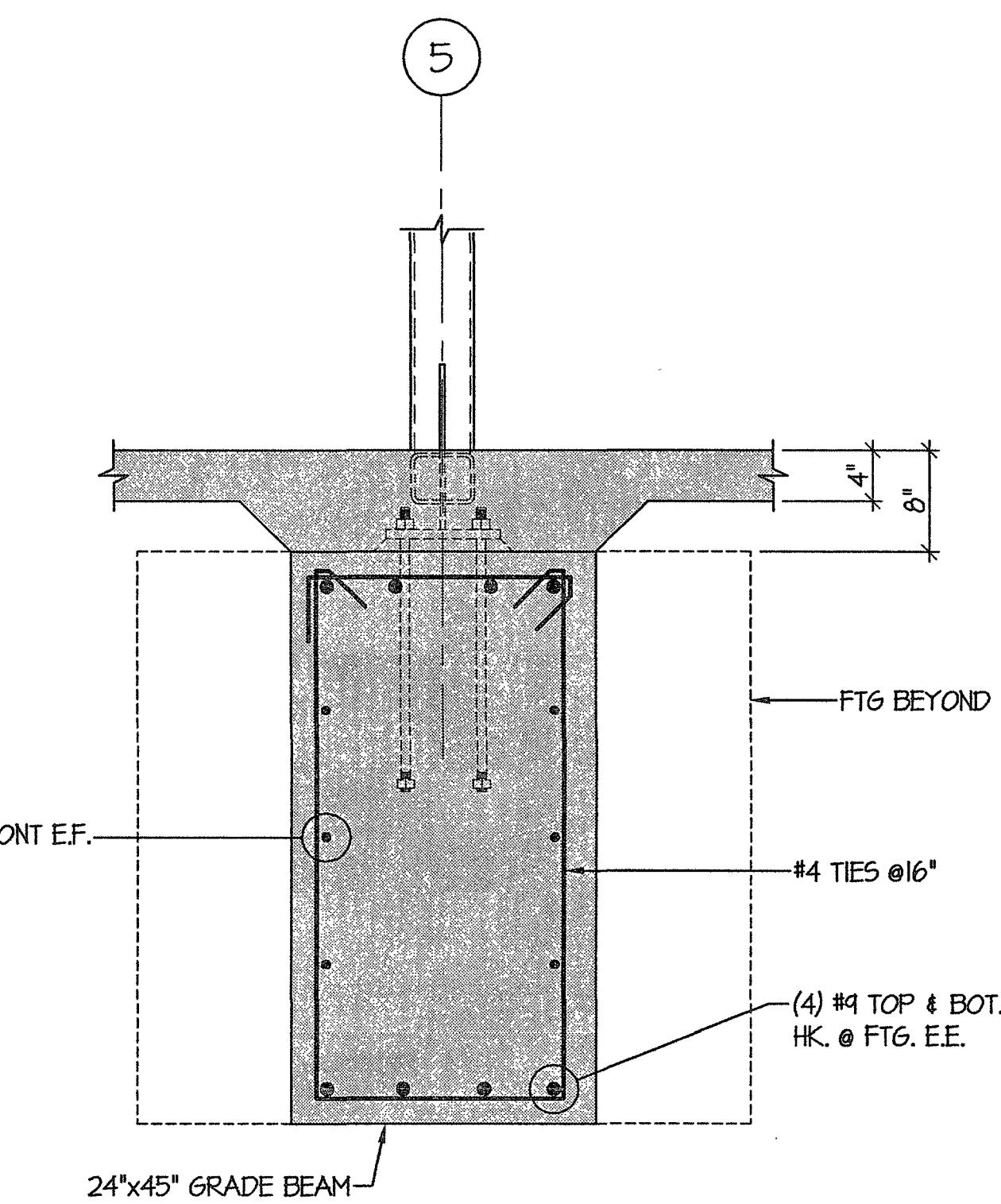
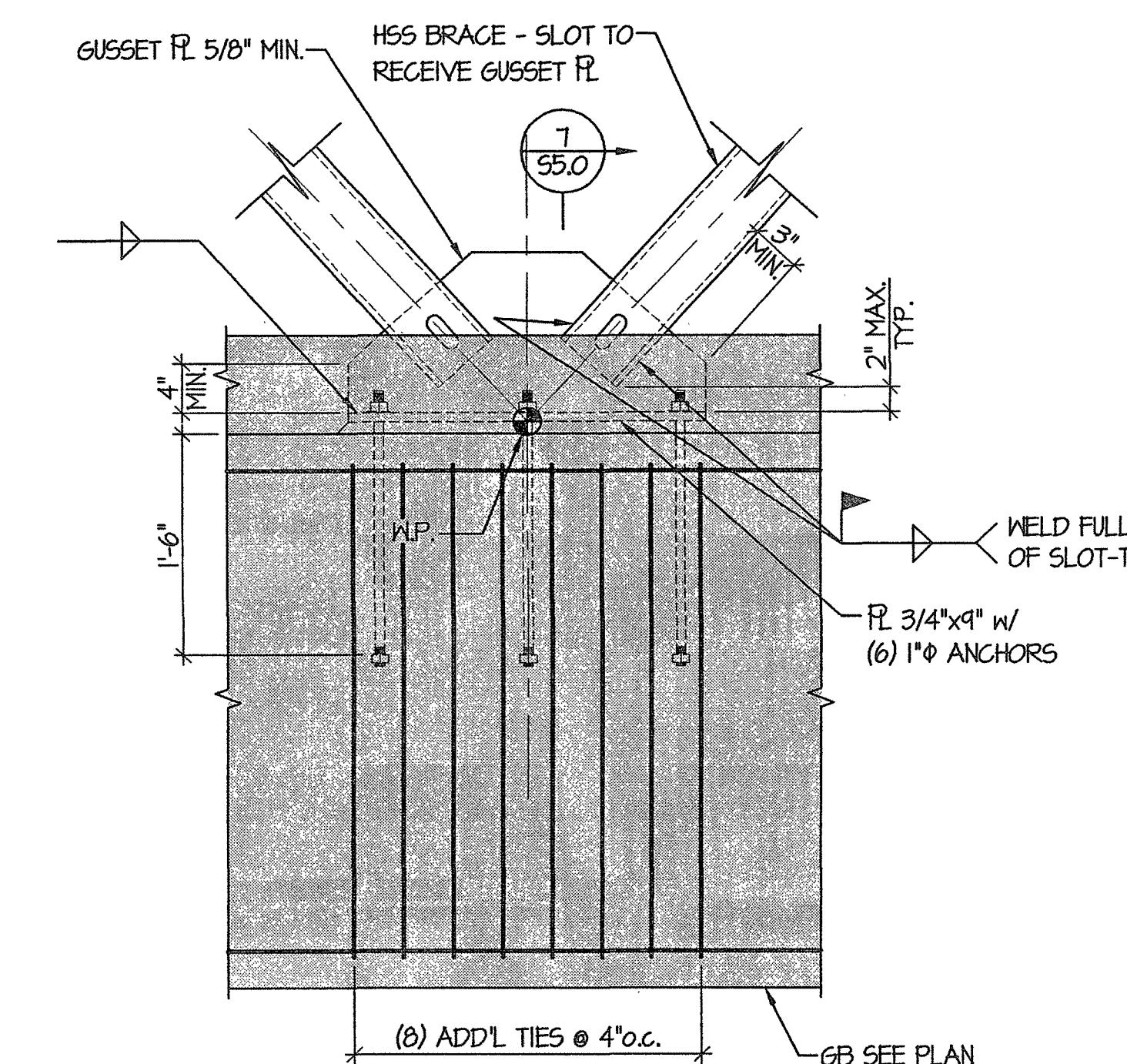
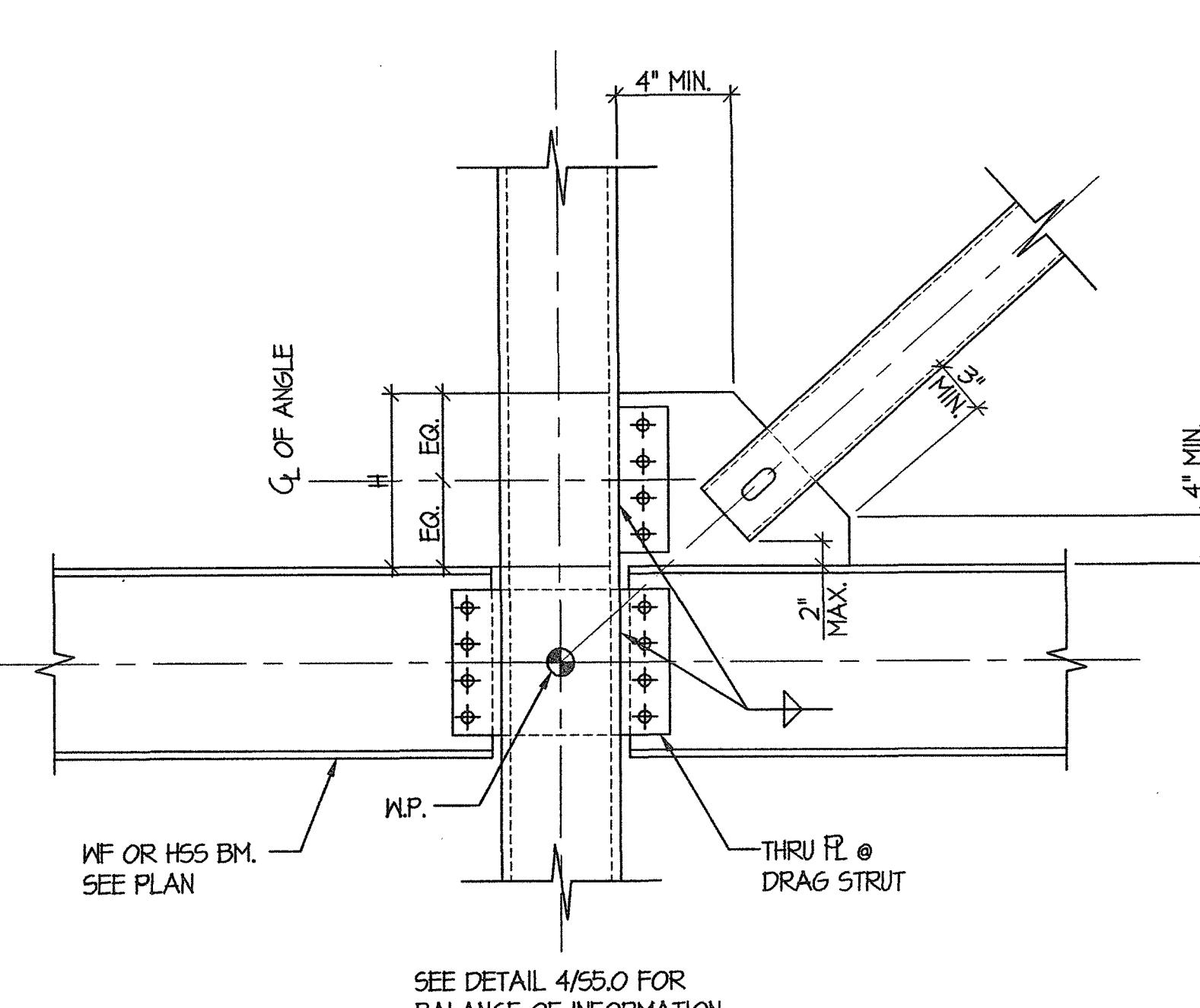
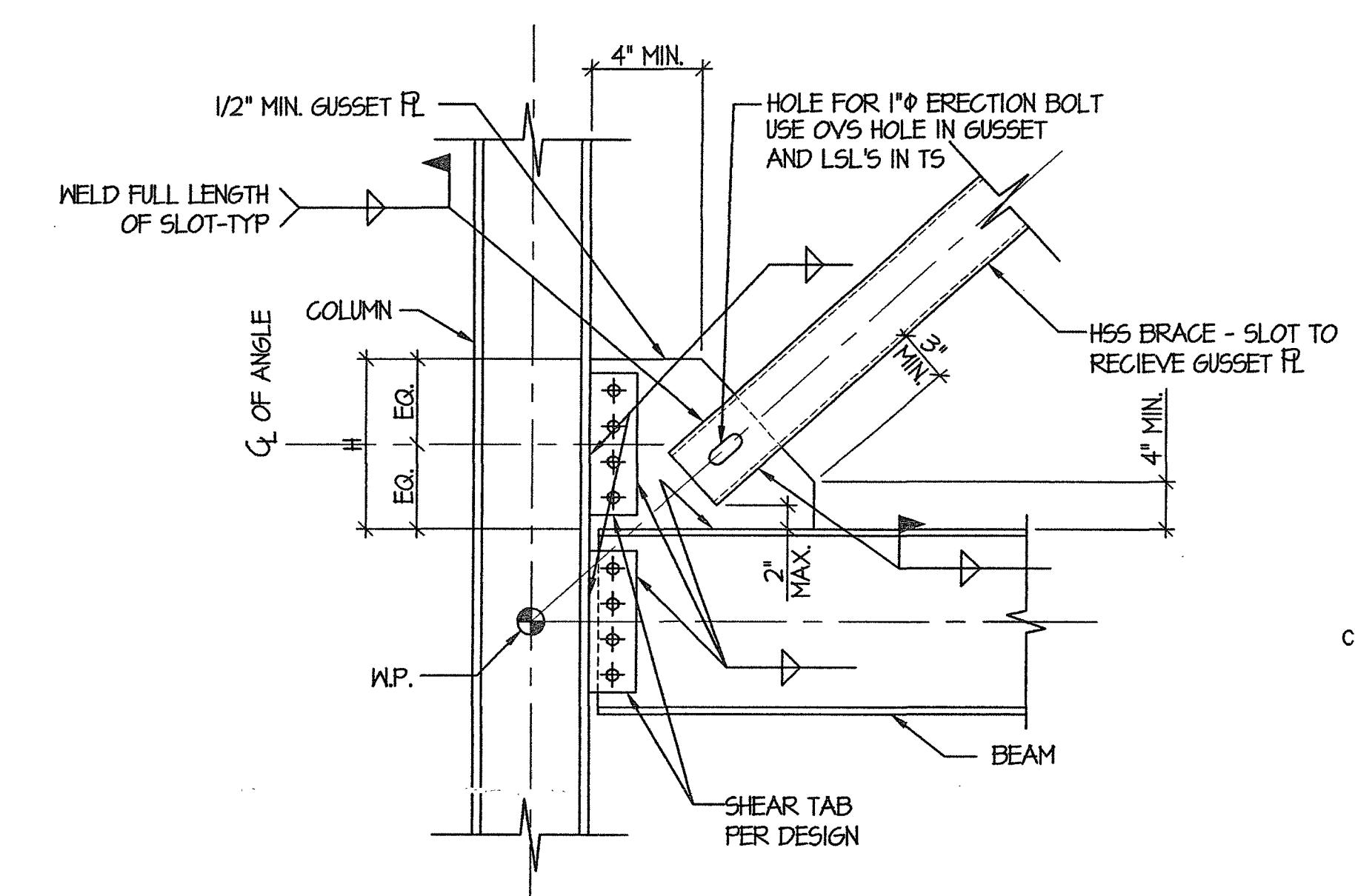
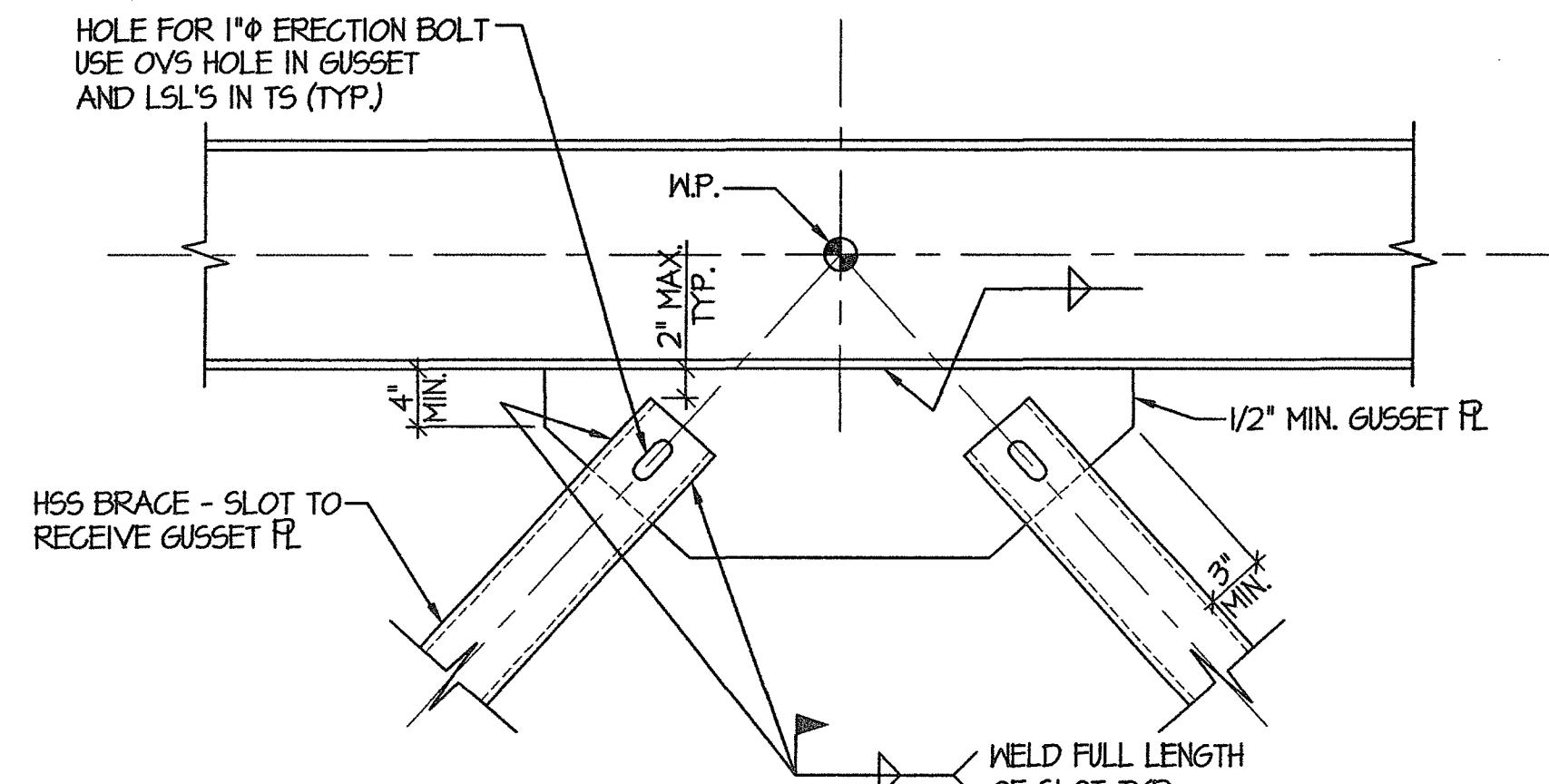
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NOTE:  
COORDINATE DOOR LOCATIONS w/ BRACE LOCATIONS.



## TYPICAL HSS SLOT TO GUSSET PLATE FIT



## TYPICAL MOMENT CONNECTION DETAILS

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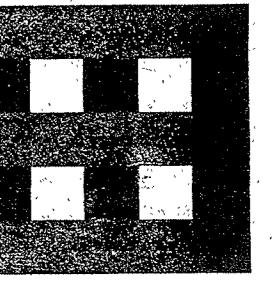
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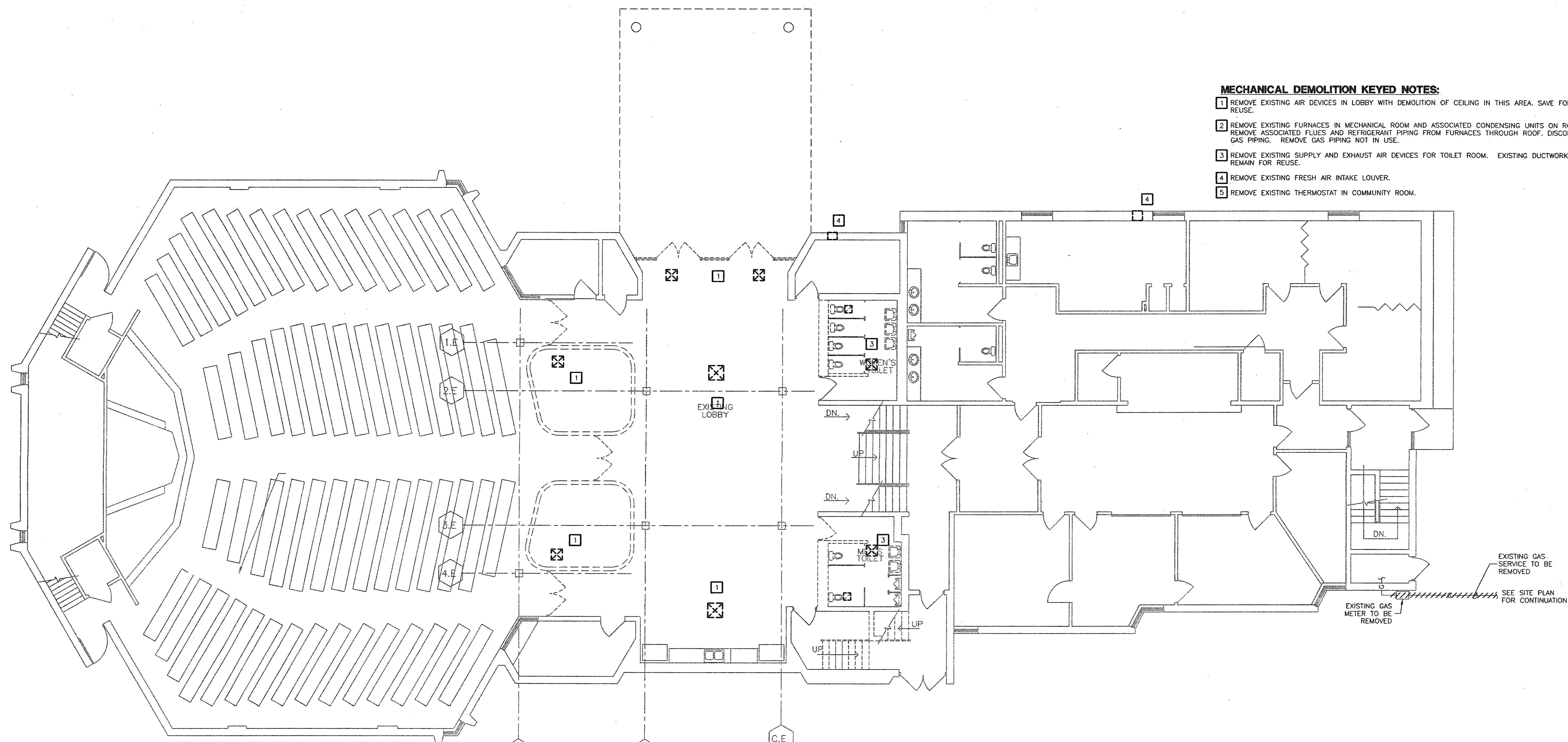
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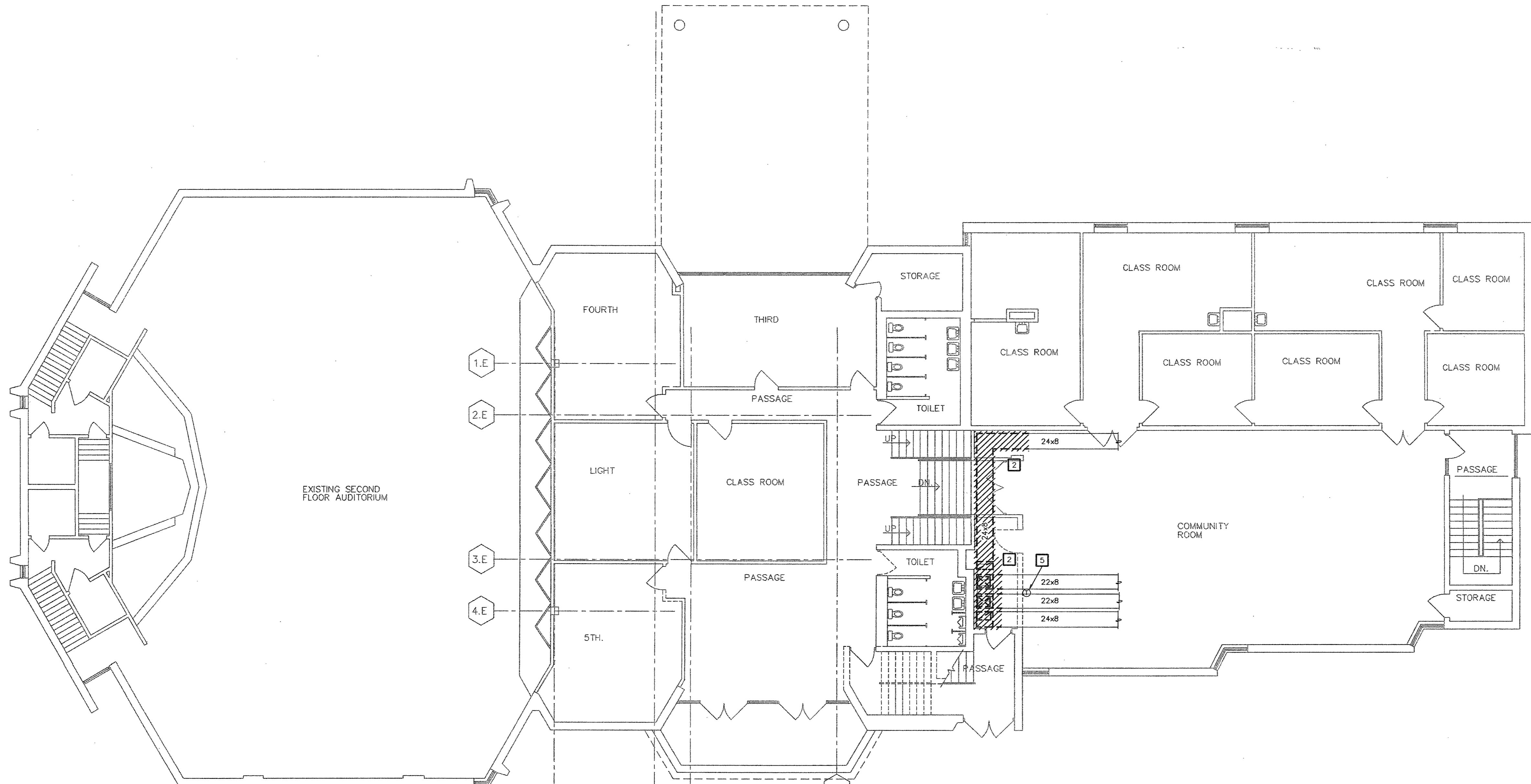
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**PROJECT:  
ADDITION AND RENOVATIONS TO  
McKnight Road  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124**



**MECHANICAL FIRST FLOOR DEMOLITION PLAN**  
SCALE: 1/8" = 1' - 0"



**MECHANICAL SECOND FLOOR DEMOLITION PLAN**  
SCALE: 1/8" = 1' - 0"

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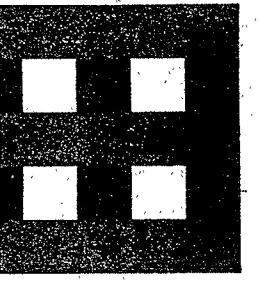
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000091		ADDENDUM #0

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2001239  
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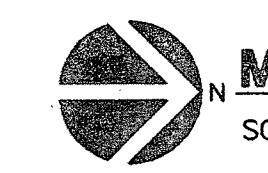
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NOVEMBER 1, 2002

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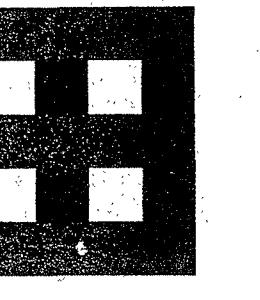


MECHANICAL SECOND FLOOR PLAN

SCALE: 1/8" = 1' - 0"

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**PROJECT:  
ADDITION AND RENOVATIONS TO  
McKnight Road  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124**

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NO	DATE	REVISIONS
2001239	03/03/01	ADDENDUM #0

PROJECT NO.  
2001239  
DRAWN BY:  
JAMES  
CHECKED BY:  
SAH  
DATE:  
NOVEMBER 1, 2002

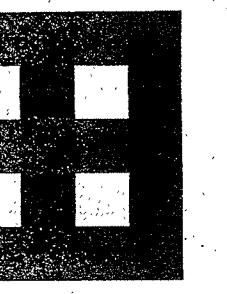
**M3.1**

SHEET NO.  
CONSTRUCTION/BID DRAWINGS

**MECHANICAL ROOF PLAN**  
SCALE: 1/8" = 1' - 0"

**SSC** Swim, Schuchet, & Cornett  
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18207 Edition Avenue Chesterfield, Missouri 63005 Fax# (636) 630-7577



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**PROJECT:  
ADDITION AND RENOVATIONS TO  
McKnight Roads  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124**

ROOF TOP UNIT SCHEDULE																		
MARK	MANUFACTURER	MODEL NO.	AREA SERVED	SUPPLY FAN			ELECTRICAL			REMARKS								
				CFM	O.A. CFM	ESP. H2O	HP	TOT.	SENS.	DB/WB	IN	OUT	V/PH/H	COMPRESSOR RLA	FLA COND. FAN	SUP FAN	MCA	
RTU-1	TRANE	YSC-060	NORTH OFFICES	1680	200	.5	.1	56.8	47.1	62/67	60	48	208/3/60	18.6	2.0	6.2	31.50	3
RTU-2	TRANE	YSC-072	KITCHEN	2400	650	1.0	.5	71.0	49.8	80/67	120	97	208/3/60	18.6	3.9	5.0	32.2	2,3
RTU-3	TRANE	YSC-36	FELLOWSHIP HALL	9000	2715	1.0	.75	358.9	237.9	82/70	350	283	208/3/60	2062.8	367.0	19.6	182.0	1,2,3,4
RTU-4	TRANE	YSC-048	INV. / DODGER	1280	500	1.0	.5	54.1	37.3	87/73	60	48	208/3/60	14.6	2.0	3.6	23.50	1
RTU-5	TRANE	YSC-060	FELLOWSHIP CHNS.	1995	100	1.0	1.0	57.5	51.4	80/67	60	48	208/3/60	18.6	2.0	6.2	31.50	1
RTU-6	TRANE	YSC-048	EXISTING AREA	1600	360	1.0	1.0	49.2	37.9	80/67	120	96	208/3/60	14.6	2.0	5.0	23.50	1
RTU-7	TRANE	YSC-048	EXISTING AREA	1600	360	1.0	1.0	49.2	37.9	80/67	120	96	208/3/60	14.6	2.0	5.0	23.50	1
RTU-8	TRANE	YSC-048	EXISTING AREA	1600	360	1.0	1.0	49.2	37.9	80/67	120	96	208/3/60	14.6	2.0	5.0	23.50	1

1. PROVIDE FARR 30/30 FILTERS
2. PROVIDE TWO STAGE GAS CONTROLS.
3. PROVIDE DISCONNECT.
4. ROOFTOP UNIT SHALL HAVE SIDE SUPPLY AIR DISCHARGE AND SIDE RETURN.

EXHAUST FAN SCHEDULE											
MARK	MANUFACTURER	MODEL NO.	LOCATION	CFM	SP	SONE	VOLTS/PH	HP	WATTS	REMARKS	
EF-1	GREENHECK	SP-9	CEILING	150	.25	3.6	120/1	—	129	1	
EF-2	GREENHECK	G-095	ROOF	375	.25	4.5	120/1	1/30	—	2	
EF-3	GREENHECK	SP-228	CEILING	300	.2	5.7	120/1	—	135	1	
EF-4	CAPTIVE-AIRE	NCA14FA	ROOF	1500	.5	—	120/1	1/2	2.3	2,3	
EF-5	GREENHECK	SP-7	CEILING	75	.25	2.3	120/1	—	80	1	

1. CEILING EXHAUST FAN KIT WITH GRILLE.
2. WITH ROOF CURB
3. KITCHEN EXHAUST FAN. FAN SHALL BE UL762 LISTED. PROVIDE GREASE BOX.

ELECTRIC HEATER SCHEDULE (WALL/CEILING)											
MARK	MANUFACTURER	MODEL NO.	LOCATION	KW	VOLT/PH	SIZE	REMARKS				
EH-1	BRASCH	C304L-41RC	VESTIBULE	1.25	120/1	36.5"X27.5"	1,2,3,4				
EH-2	BRASCH	C304L-41RC	VESTIBULE	1.25	120/1	36.5"X27.5"	1,2,3,4				

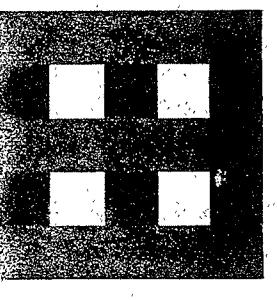
1. CEILING RECESSED.
2. WITH WALL MOUNTED THERMOSTAT FURNISHED BY M.C. AND WIRED BY E.C.
3. COLOR TO BE SPECIFIED BY ARCHITECT.
4. WITH DISCONNECT.

P.A.S. AIR DEVICE RUNOUT SCHEDULE											
DUCT CFM	DUCT SIZE	GENERAL NOTES:									
0 - 100	6" ROUND	1. AIR DEVICE NECK SIZE SHALL BE THE SAME AS RUNOUT SIZE.									
101 - 200	8" ROUND	2. REGULAR DUCT SIZES OR EQUIVALENT FREE AREA MAY BE SUBSTITUTED FOR ROUND DUCT.									
201 - 300	10" ROUND	3. RUNOUTS MAY BE RIGID OR FLEX DUCT PER SPECIFICATIONS.									
301 - 400	12" ROUND	4. CRITERIA NC30 OR $\Delta P < 0.1$ .									
401 - 500	14" ROUND										
501 - 600	16" ROUND										

T.D.C. AIR DEVICE RUNOUT SCHEDULE											
DUCT CFM	DUCT SIZE	GENERAL NOTES:									
0 - 150	6" ROUND	1. AIR DEVICE NECK SIZE SHALL BE THE SAME AS RUNOUT SIZE.									
151 - 275	8" ROUND	2. REGULAR DUCT SIZES OR EQUIVALENT FREE AREA MAY BE SUBSTITUTED FOR ROUND DUCT.									
276 - 350	10" ROUND	3. RUNOUTS MAY BE RIGID OR FLEX DUCT PER SPECIFICATIONS.									
351 - 500	12" ROUND	4. CRITERIA 10x18, $\Delta P = 0.1$ .									
501 - 700	14" ROUND										
701 - 950	16" ROUND										

AIR DEVICE SCHEDULE											
PLAN MARK	MANUFACTURER	MODEL	MATERIAL	LOCK SIZE	FRAME TYPE	PANEL SIZE	REMARKS				
S1	TITUS	TDC	STL	SCHED	LAY-IN	24"X24"	1				
S2	TITUS	TDC	STL	9x9	—	24"X24"	4				
S3	TITUS	PAS	ALUM	SCHED	LAY-IN	24"X24"	1				
S4	TITUS	PAS	ALUM	SCHED	HARD	12"X12"	1				
S5	TITUS	DL	STL	—	—	18"X6"	3				
SX	EXISTING	—	—	—	—	—	5				
R1	TITUS	PAR	ALUM	SCHED	LAY-IN	24"X24"	2				
E1	TITUS	350 FL	ALUM	SCHED	HARD	12"X12"	—				
EX	EXISTING	—	—	—	—	—	5				
T1	TITUS	350FL	STL	—	—	12"X6"	6				

1. 4 WAY DIFFUSER
-



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**PROJECT:  
ADDITION AND RENOVATIONS TO  
McKnight Road  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124**

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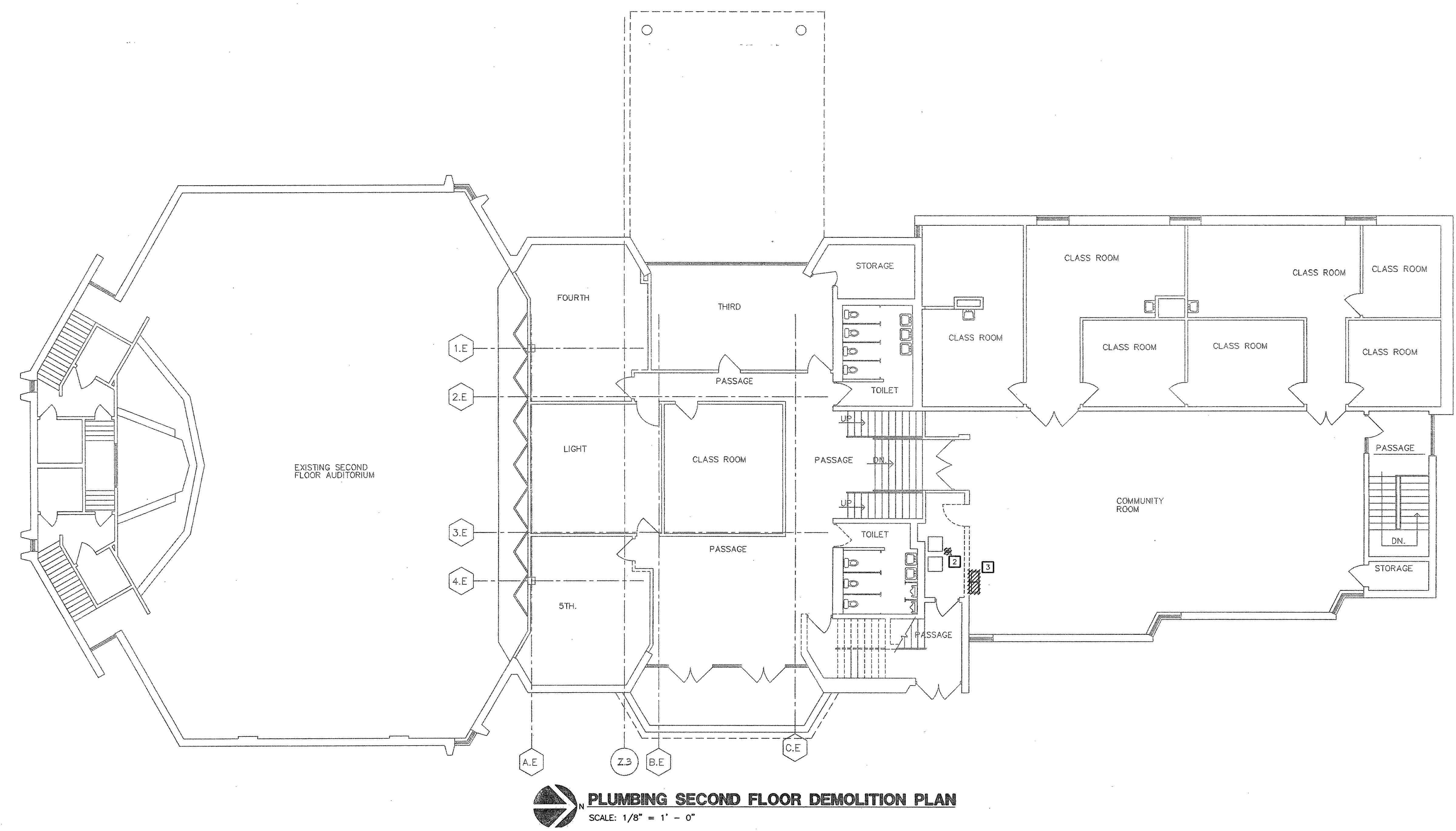
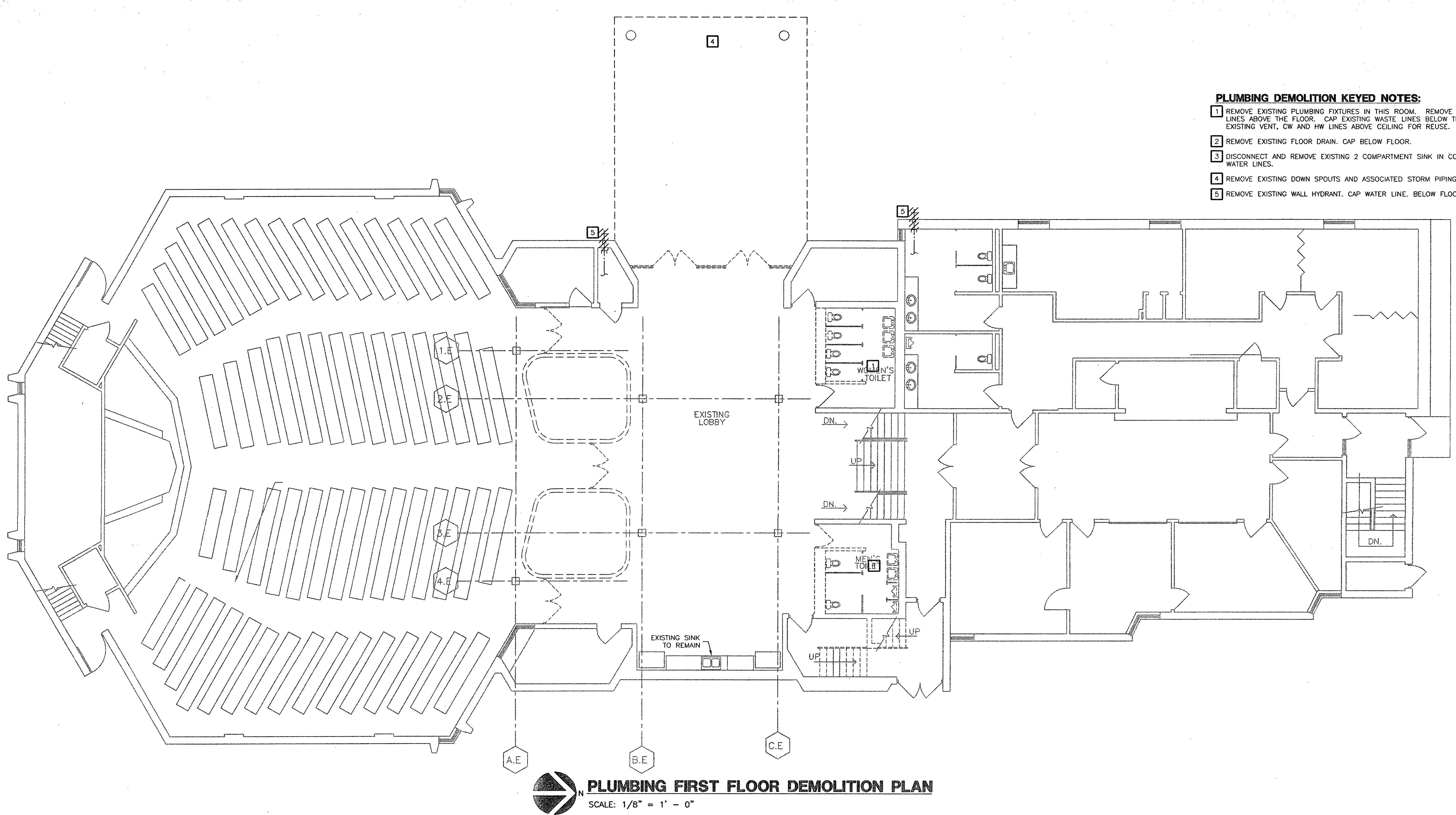
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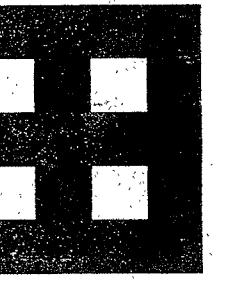
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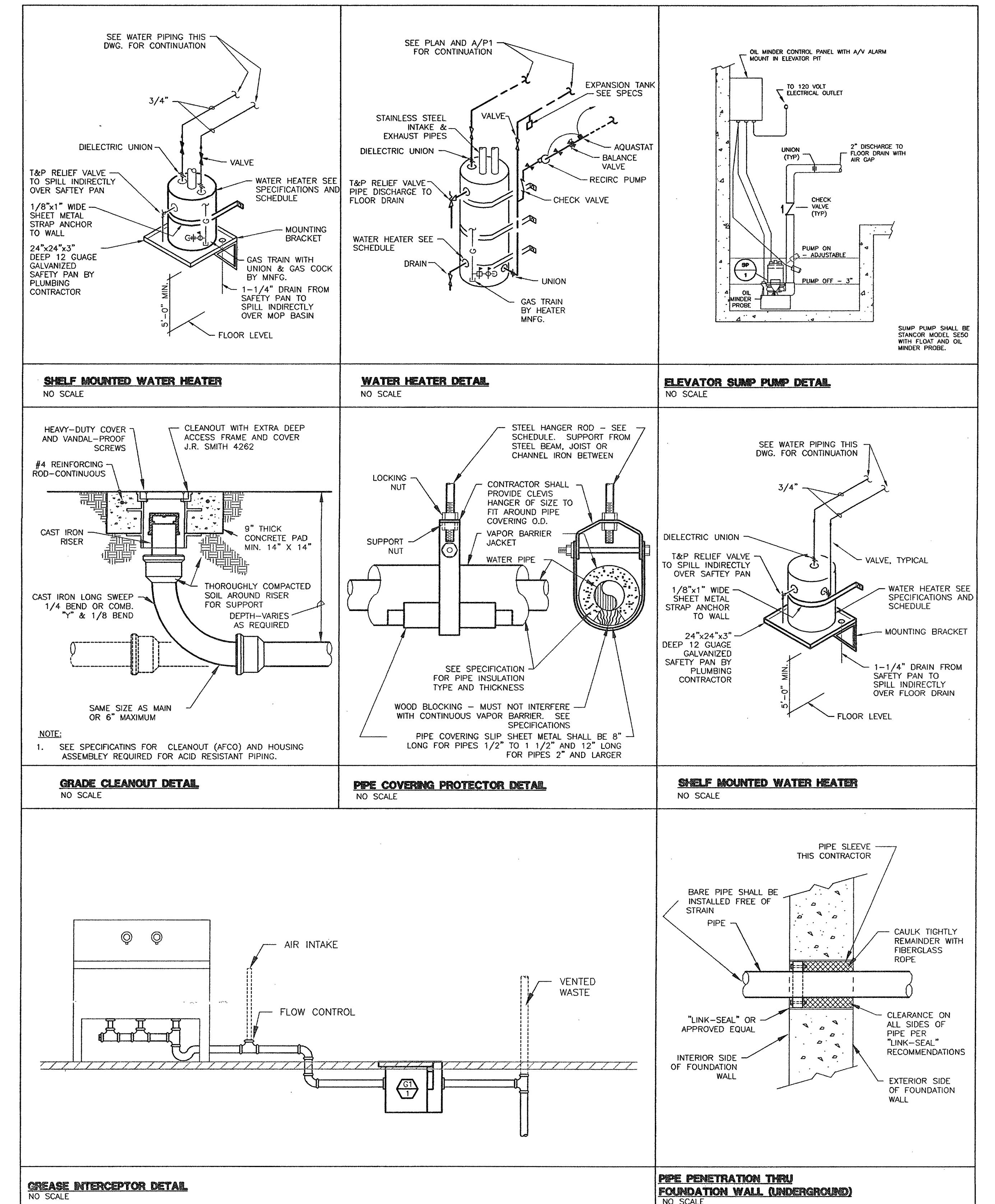
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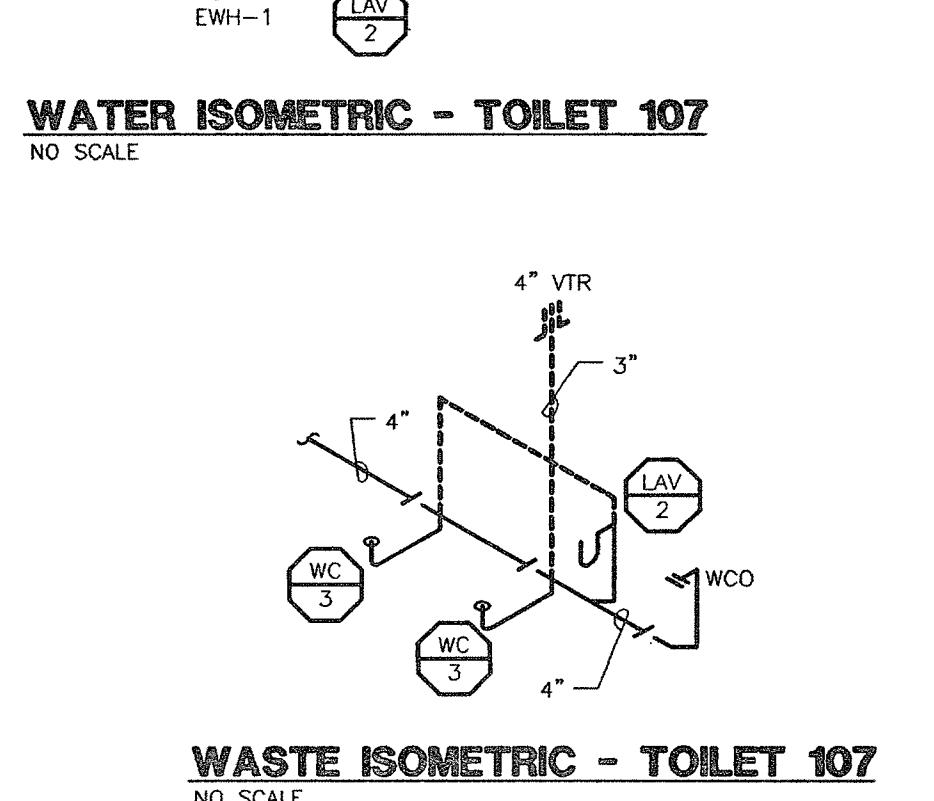
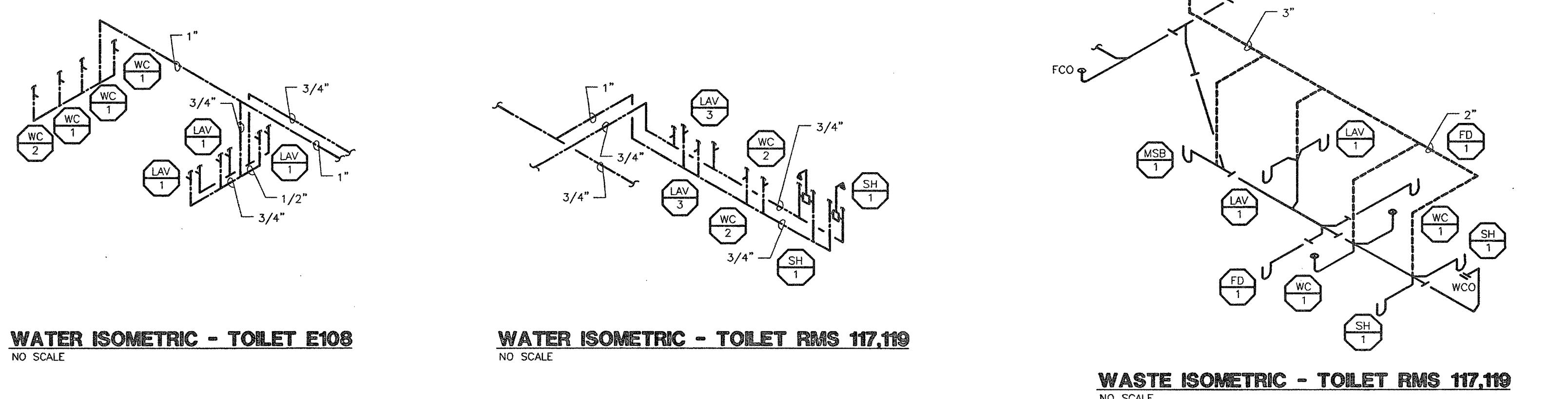
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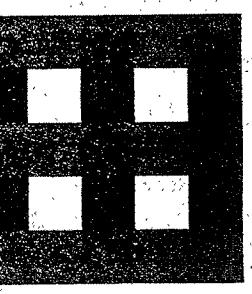
**PROJECT:  
ADDITION AND RENOVATIONS TO  
McKnight Road  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124**

PLUMBING SYMBOLS LEGEND	
◆ CONNECTION OF NEW TO EXISTING	
- D CONDENSATE DRAIN	
- C COLD WATER	
- - HOT WATER SUPPLY	
- - - HOT WATER RETURN	
- S SOFT WATER	
- H HARD WATER	
- T TEMPERE WATER	
- 140 140 DEGREE HOT WATER	
- 140- RECIRCULATED 140 DEGREE WATER	
- T- RECIRCULATED TEMPERED WATER	
- G GAS PIPING	
- LP LIQUID PROPANE GAS	
- SANITARY WASTE ABOVE GRADE	
- SANITARY WASTE BELOW GRADE	
- SANITARY VENT	
- VTR VENT THROUGH ROOF	
- ST STORM DRAINAGE PIPING ABOVE GRADE	
- ST- STORM DRAINAGE PIPING BELOW GRADE	
- OD OVERFLOW DRAINAGE PIPING ABOVE GRADE	
- OD- OVERFLOW DRAINAGE PIPING BELOW GRADE	
- O OIL PIPING-DOUBLE WALLED	
- WO- WASTE OIL PIPING-DOUBLE WALLED	
- PO PLUMBING TRAP	
- P PIPE TURNING DOWN	
- P PIPE TURNING UP	
- D SHOCK ARRESTOR	
- B BALL VALVE	
- FC FLOW CONTROL/BALANCE VALVE	
- GV GATE VALVE	
- PRV PRESSURE RELIEF VALVE	
- CV CHECK VALVE	
- GC GAS COCK	
- U UNION	
- PG PRESSURE GAUGE	
- S STRAINER	
- TS TEMPERATURE SENSOR	
- OWS OIL/WATER SEPARATOR	
- UST UNDERGROUND STORAGE TANK	
- AFF ABOVE FINISHED FLOOR	
- SS SOIL STACK	
- NTS NOT TO SCALE	
- CI CAST IRON	
- CO CLEAN OUT	
- X THRU-FLOOR	
- RPBP REDUCED PRESSURE BACKFLOW PREVENTOR	
- WC FIXTURE TYPE	
- WC# FIXTURE NUMBER	



ELECTRIC WATER HEATER SCHEDULE								
MARK	MFNC	MODEL NO.	STORAGE GAL	RECOVERY	°F. RISE	HEAT SOURCE	HEAT CAP.	REMARKS
EWH-1	A.O. SMITH	DEL-15	15	8 GPH	100	120/1/60	2000 WATTS	1
1. SHELF MOUNTED ABOVE MOP SERVICE BASIN.								
GAS WATER HEATER SCHEDULE								
MARK	MFNC	MODEL NO.	STORAGE GAL	RECOVERY	°F. RISE	HEAT SOURCE	HEAT CAP.	REMARKS
GWH-1	A.O. SMITH	BTH-120	60	142 GPH	100	NATURAL GAS	125,000 BTU	1
1. PROVIDE STAINLESS STEEL TYPE 304 EXHAUST AND VENT PIPES. ROUTE UP THROUGH ROOF.								
HOT WATER RECR. PUMP SCHEDULE								
MARK	MANUFACTURER	MODEL NO.	GPM	FT HEAD	HP	V/P	FLANGE	REMARKS
RP-1	BELL & GOSSETT	LR-20BF	6	10'	1/20	120/1	3/4"	1
1. ALL BRONZE.								
ELEVATOR SUMP PUMP SCHEDULE								
MARK	MODEL SE-50	MODEL NO.	GPM	FT. HD.	HP	ELECT. V/VPH/C	REMARKS	
SP-1	STANCO	SE-50	65	10'	1/2	120/1/60	1	
1. WITH 10' ELECTRICAL CORD, FLOAT SWITCH, OIL MINDER PROBE, AND ALARM PANEL WITH AUDIBLE/VISUAL ALARM.								
GREASE INTERCEPTOR								
MARK	MANUFACTURER	MODEL NO.	GPM	LBS	INLET	OUTLET	CO PLUG	REMARKS
GI-1	J.R. SMITH	8150	50	100	3"	3"	2"	1,2,3
1. FURNISH AND INSTALL WITH FLOW CONTROL DEVICE. 2. Recessed in floor. 3. INSTALL PER DETAIL THIS SHEET.								
PLUMBING FIXTURE SCHEDULE								
MARK	Fixture	SAN.	VENT.	C.W.	H.W.	1	REMARKS	
WC-1	WATER CLOSET	4"	2"	1"	-	HEIGHT 18"		
WC-2	WATER CLOSET	4"	2"	1"	-	HEIGHT 17"		
WC-3	WATER CLOSET	4"	2"	1"	-	CHILD HEIGHT		
UR-1	URINAL	2"	1-1/2"	3/4"	-	HEIGHT 24"		
UR-2	URINAL	2"	1-1/2"	3/4"	-	HEIGHT 17"		
LAV-1	LAVATORY (COUNTEROP)	1-1/2"	1-1/2"	1/2"	1/2"	-	ADA	
LAV-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	-	ADA	
LAV-3	LAVATORY (COUNTEROP)	1-1/2"	1-1/2"	1/2"	1/2"	-	ADA	
MSB-1	MOP SERVICE BASIN	3"	1-1/2"	1/2"	1/2"	-		
SH-1	SHOWER	2"	1-1/2"	1/2"	1/2"	-	ADA	
EWC-1	ELECTRIC WATER COOLER	1-1/2"	1-1/2"	1/2"	-	-	ADA	
FD-1	FLOOR DRAIN	3"	2"	-	-	-		
HD-1	HUB DRAIN	3"	2"	-	-	-		
WH-1	WALL HYDRANT	-	-	3/4"	-	NON-FREEZE HEIGHT 36"		





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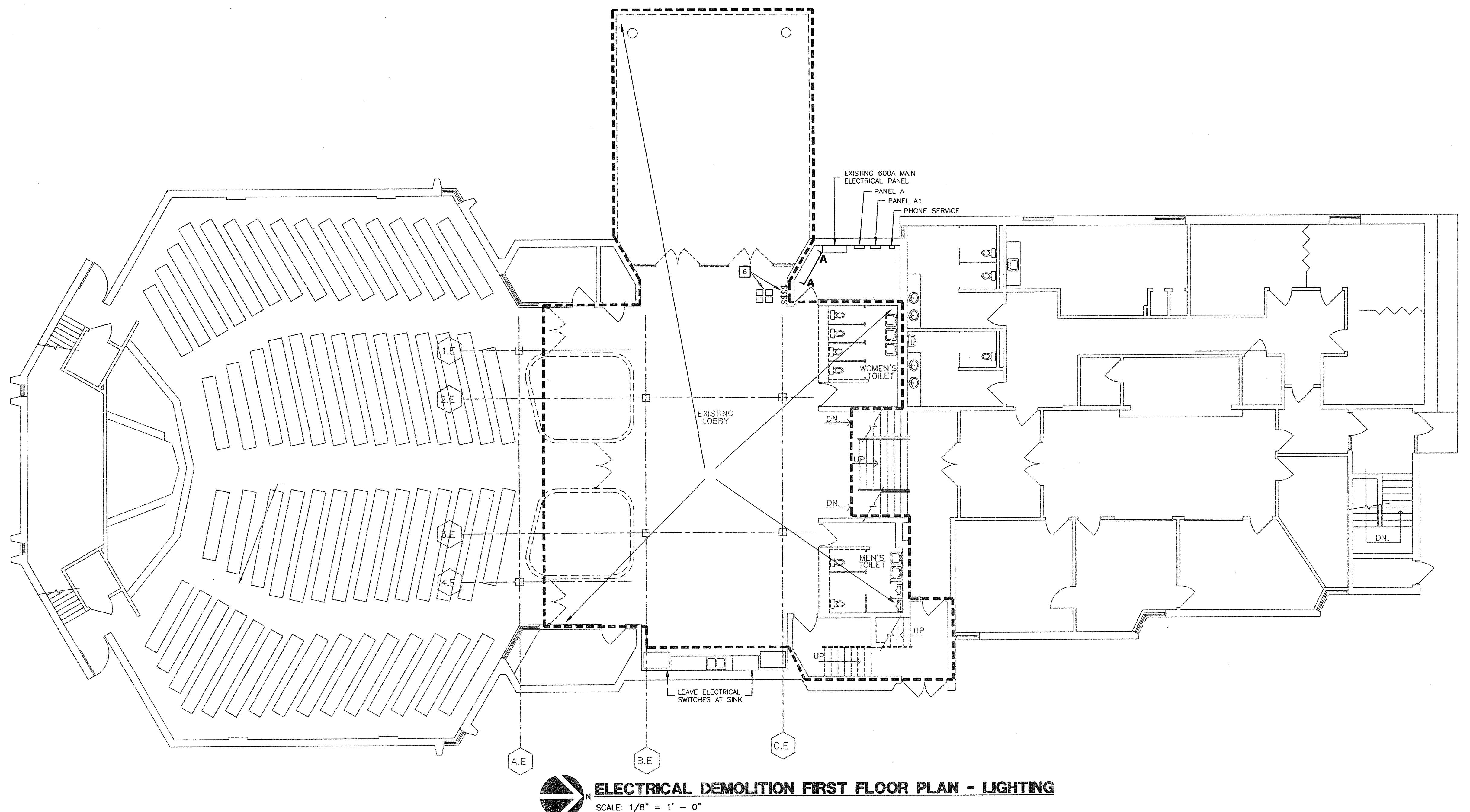
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## **GENERAL DEMOLITION NOTES**

1. THE OWNER INTENDS TO VACATE AREA OF WORK BEFORE DEMOLITION BEGINS. UTILITIES AND SERVICES TO ANY OTHER EXISTING FACILITIES SHALL NOT BE INTERRUPTED WITHOUT THE OWNERS APPROVAL AS TO THE TIME AND DURATION. THE OWNER WILL CONTINUE TO OCCUPY THE REST OF THE EXISTING FACILITIES THROUGHOUT THE CONSTRUCTION OPERATIONS AND THE ELECTRICAL CONTRACTOR SHALL SO ORGANIZE HIS WORK AS TO CAUSE A MINIMUM OF INTERRUPTIONS SHALL BE SCHEDULED AT THE CONVENIENCE OF THE OWNER.
  2. ALL LIGHT FIXTURES, 120 VOLT RECEPTACLES, SPECIAL RECEPTACLES, SWITCHES, ETC. ALONG WITH ALL CONDUIT AND WIRE SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VISIBLY EXAMINE ALL EXISTING WALLS AND CEILINGS DESIGNATED FOR REMOVAL TO DETERMINE THE CONDUIT AND WIRING THAT WILL REQUIRE REMOVAL.
  3. THE ELECTRICAL CONTRACTOR SHALL REMOVE EQUIPMENT, OUTLETS, CONDUIT, WIRE, ETC., AS SHOWN AND SPECIFIED ON DRAWINGS AND AS MAY BECOME NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VISIBLY EXAMINE ALL EXISTING WALLS AND CEILINGS DESIGNATED FOR REMOVAL TO DETERMINE THE CONDUIT AND THE WIRING THAT WILL REQUIRE REMOVAL.
  4. ALL LIGHTING FIXTURES, SWITCHES RECEPTACLES, SPECIAL OUTLETS, ETC., WHICH ARE SHOWN WITH DASHED LINE SYMBOLS ON THE DEMOLITION PLANS OR SO NOTED SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR ALONG WITH ALL ASSOCIATED WIRING AND CONDUIT, UNLESS OTHERWISE NOTED. ALL DEVICES SHOWN WITH SOLID LINES SHALL REMAIN.
  5. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING FIXTURES, EQUIPMENT, OUTLETS, ETC. TO REMAIN IN USE WHETHER NOTED ON THE PLANS OR NOT. FIELD VERIFY EXISTING ITEMS TO REMAIN IN USE.
  6. WIRING FOR EXISTING CIRCUITS WHICH ARE PARTIALLY ABANDONED SHALL BE RECONNECTED BY THE ELECTRICAL CONTRACTOR TO SERVICE THE REMAINING OUTLETS ON THE CIRCUIT.
  7. ALL WIRING FOR A CIRCUIT WHICH IS TO BE REMOVED SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR BACK TO THE PANEL WHICH SUPPLIED THE CIRCUIT.
  8. ALL EMPTY CONDUIT (MADE EMPTY BY THIS DEMOLITION) SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR.
  9. ALL UNUSED TELEPHONE AND DATA CABLES SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR ALL OTHER UNUSED CABLES SHALL ALSO BE REMOVED BY THE ELECTRICAL CONTRACTOR.
  10. ALL ACTIVE CIRCUITING THAT RUNS THROUGH THIS SPACE, ORIGINATING AND/OR TERMINATING IN OTHER SPACES, SHALL REMAIN IN PLACE.
  11. WHERE FIXTURES EQUIPMENT OR DEVICES ARE REMOVED, PATCH AND FINISH THE SURFACE AS REQUIRED, TO MATCH THE EXISTING.
  12. MISCELLANEOUS CABLES, CONDUITS, WIRING DEVICES, ETC., TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND HE SHALL REMOVE THESE ITEMS FROM THE PREMISES.
  13. ALL EXISTING ELECTRICAL EQUIPMENT, ETC., TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL REMOVE THESE ITEMS FROM THE PREMISES.
  14. FOR ALL EXISTING ELECTRICAL DEVICES IN WALLS TO BE REMOVED, ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER, REMOVE CONDUCTORS AND CAP CONDUIT IN FLOOR OR CEILING AS REQUIRED. DEVICES ARE TO BE REMOVED ALONG WITH WALL BY GENERAL CONTRACTOR.
  15. FOR ALL EXISTING ELECTRICAL DEVICES TO BE REMOVED FROM WALLS WHICH REMAIN, ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER, REMOVE CONDUCTORS, REMOVE DEVICE AND PROVIDE BLANK COVER PLATE OR AS NOTED.
  16. EXISTING RECEPTACLES WHICH ARE TO REMAIN SHALL BE EXTENDED TO BE FLUSH WITH NEW FINISH ON EXISTING WALL WHERE REQUIRED.
  17. WHERE CONDUITS EXTENDING OUT OF THE FLOOR ARE TO BE REMOVED, CUT THE CONDUIT OFF 1/2" BELOW THE FLOOR LINE AND PATCH.
  18. FIELD VERIFY DEMOLITION AREAS INDICATED ON THE DRAWINGS AND DISCONNECT AND REMOVE ELECTRICAL ITEMS IN THESE AREAS AS REQUIRED.
  19. WHERE ELECTRICAL EQUIPMENT HAS BEEN DEMO'DED PATCH WALL AND MAKE READY FOR NEW WALL FINISH.
  20. ALL DEMOLITION ELECTRICAL ITEMS SHALL BE TURNED OVER TO OWNER OR IF NOT WANTED FOR REUSE ITEMS SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.

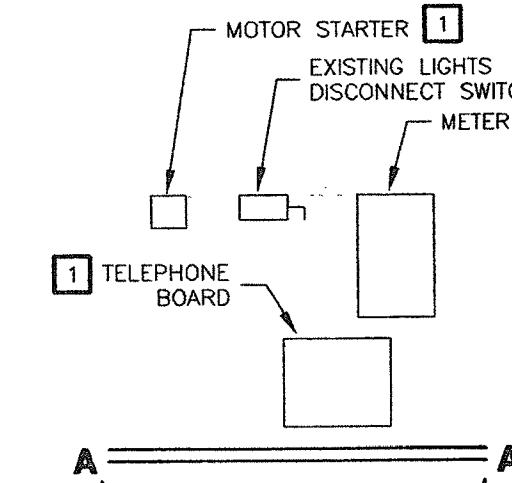
# PROJECT: ADDITION AND RENOVATIONS TO **McKnight Road** Church of Christ 351 E 30TH McMINNIGHT ROAD

Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124

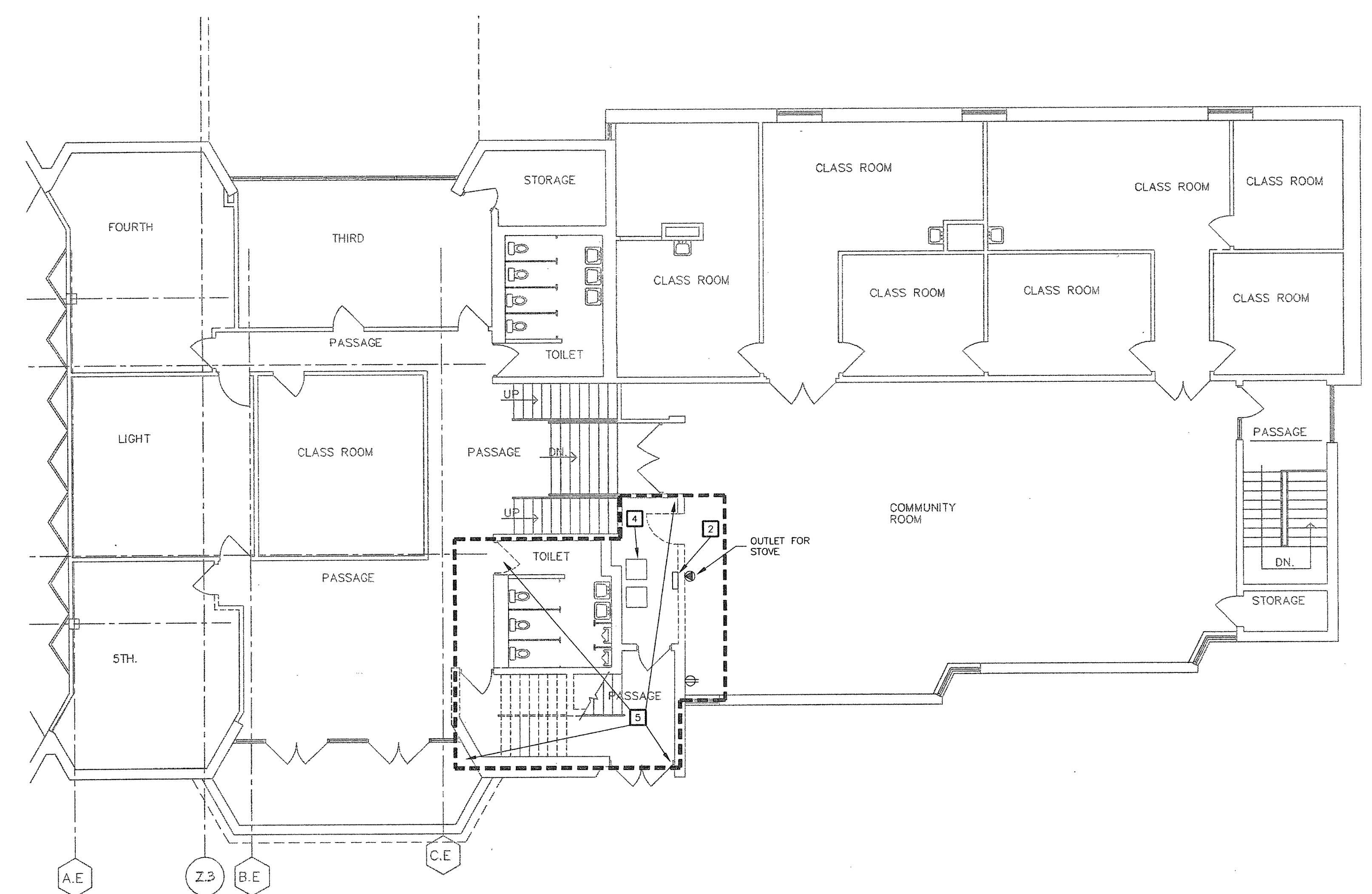


 ELECTRICAL DEMOLITION FIRST FLOOR PLAN - LIGHTING

SCALE:  $1/8'' = 1'$



## **ELECTRICAL ROOM SECTION**



 ELECTRICAL DEMOLITION SECOND FLOOR PLAN - LIGHTING

SCALE:  $1/8"$  = 1

## **ELECTRICAL DEMOLITION KEYED NOTES:**

- ELECTRICAL DEMOLITION NOTES:**

  - EXISTING DEVICE TO BE RELOCATED TO NEW WALL ERECTED IN PLACE OF THE EXISTING DOOR.
  - EXISTING METER TO BE DISCONNECTED AND REMOVED AFTER NEW SERVICE IS INSTALLED.
  - EXISTING PANEL TO BE RELOCATED. SEE REMODEL PLAN AND ONE-LINE DIAGRAM.
  - EXISTING FURNACE TO BE DISCONNECTED FOR REMOVAL BY OTHERS. \_\_\_\_\_
  - GENERAL AREA OF DEMOLITION. REMOVE ALL ELECTRICAL DEVICES UNLESS SHOWN OR NOTED OTHERWISE.
  - EXISTING LIGHTING SWITCHES TO BE REMOVED. THE EXISTING PARKING LOT LIGHTING CONTROLS

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PROJECT NO. SHEET NO.  
2001239  
DRAWN BY: JW  
CHECKED BY: CF  
DATE: NOVEMBER 1, 2002

**ED1.1**

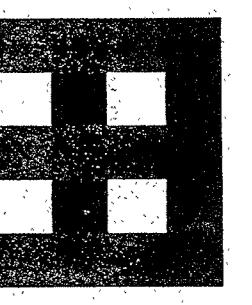
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Engineering, Inc.

**Edison Avenue (636) 530-7770  
Ferfield, Missouri 63005 Fax# (636) 530-7877**

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## **CONSTRUCTION/BID DRAWINGS**

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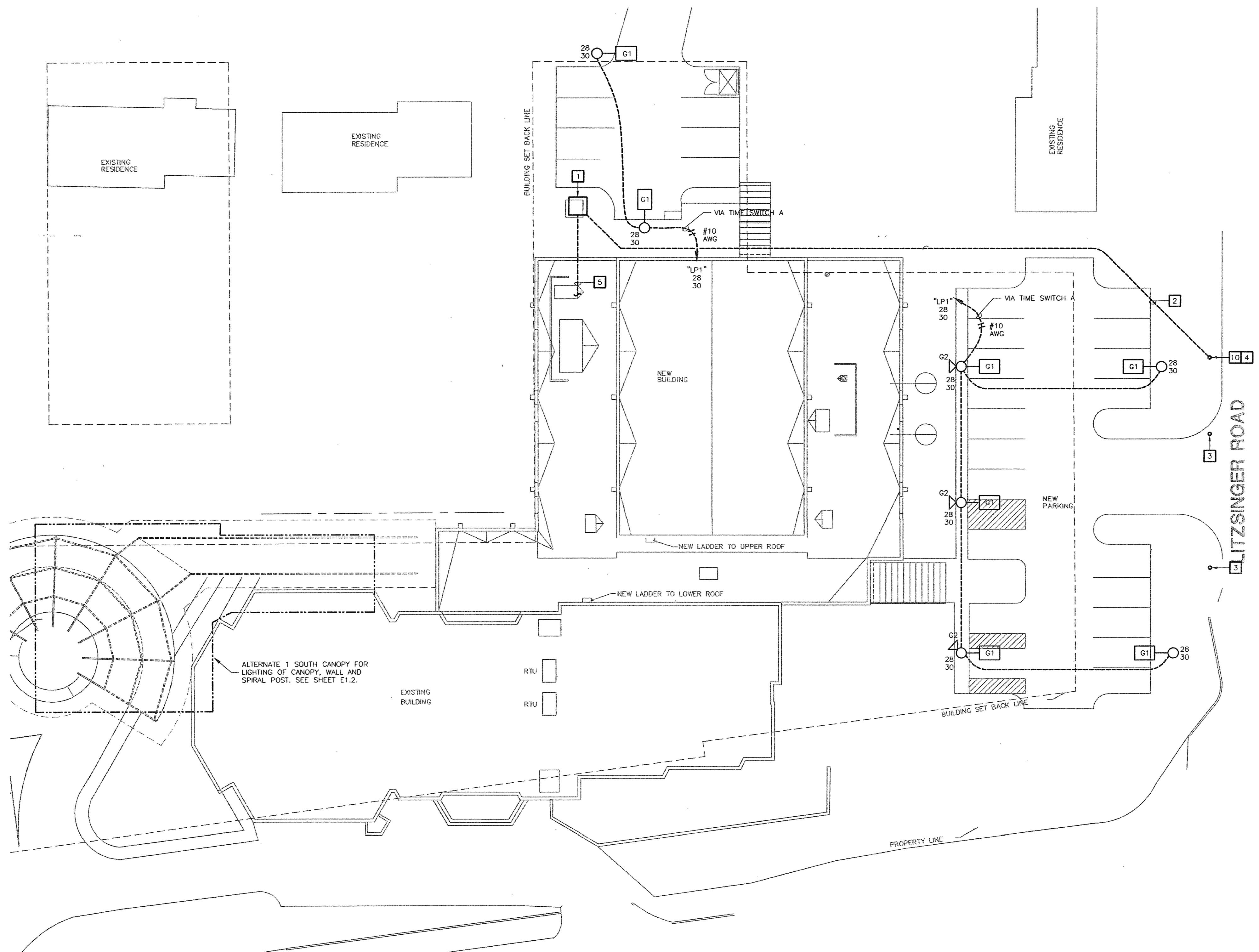
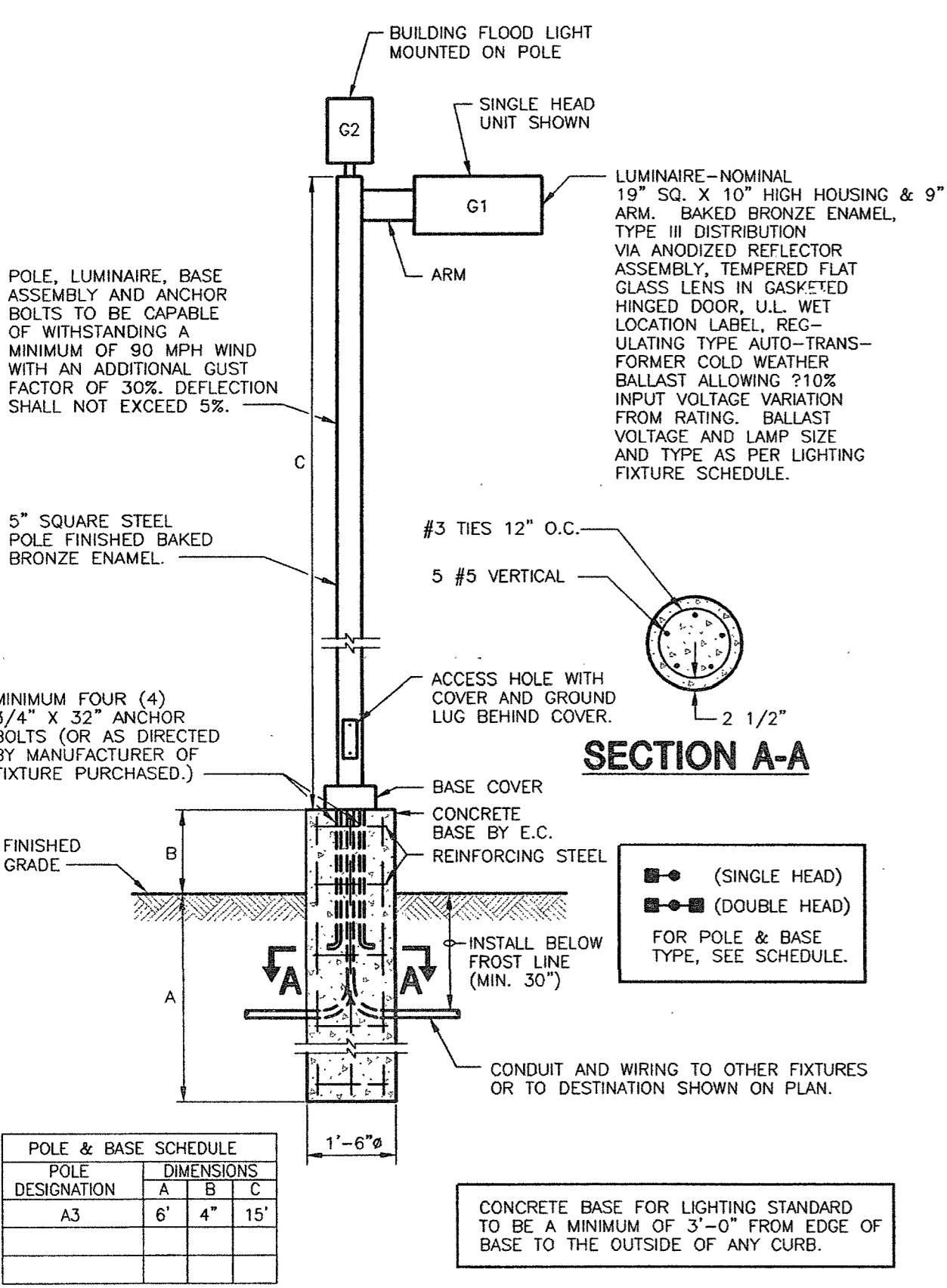
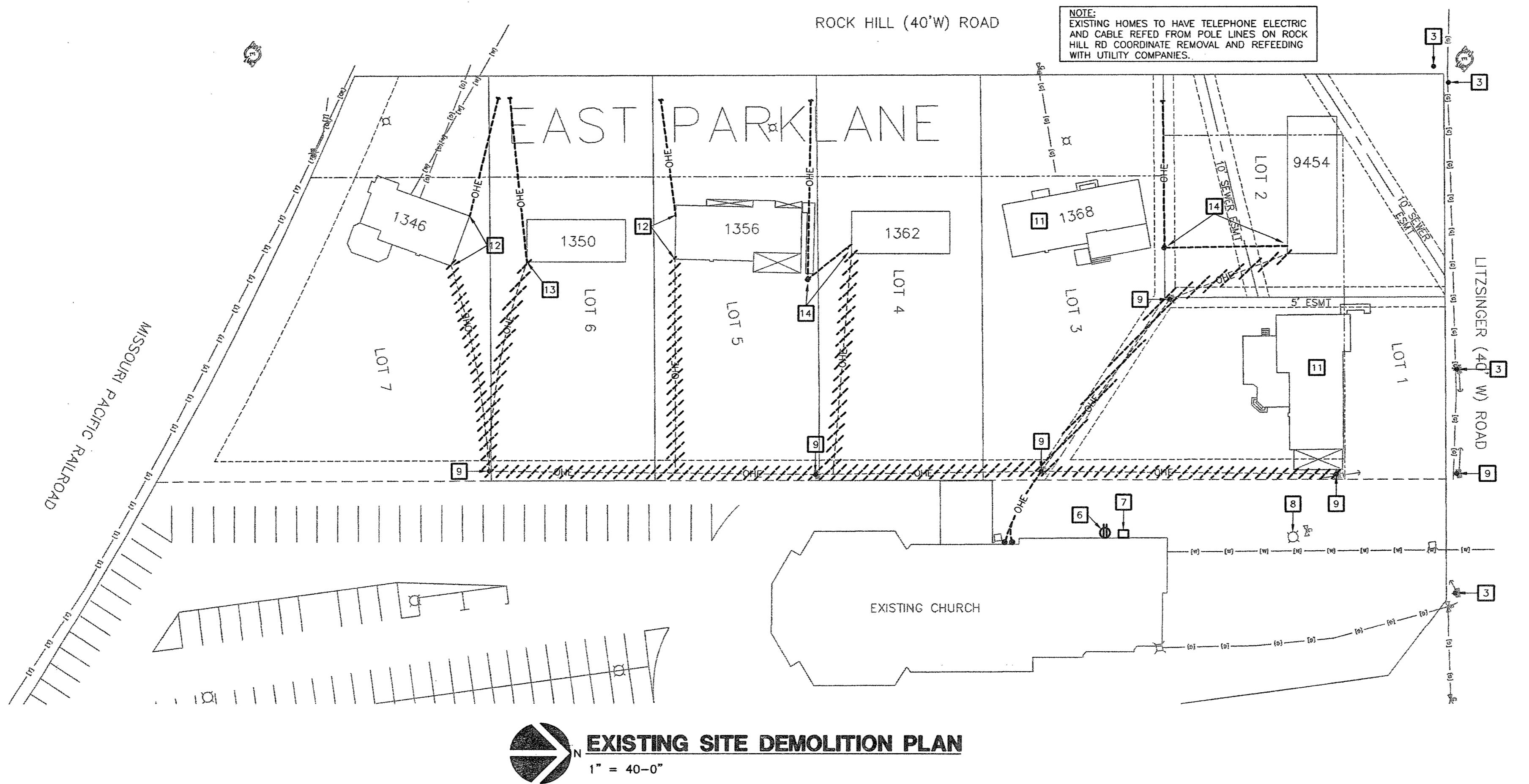
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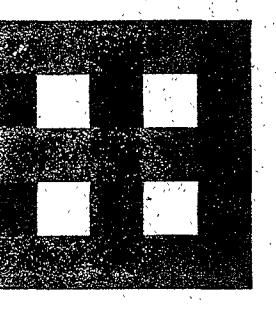
# PROJECT: ADDITION AND RENOVATIONS TO **McKnight Roads** Church of Christ 2515 SOUTH MCKNIGHT ROAD ST. LOUIS, MO 63124



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18207 Edmon Avenue Chesterfield, Missouri 63005 (636) 630-7770 Fax (636) 630-7771

PROJECT NO. 2001239 SHEET NO. E0.1  
DRAWN BY: J.W. CHECKED BY: C.F.  
DATE: NOVEMBER 1, 2002

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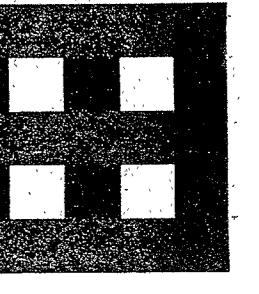
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**PROJECT:  
ADDITION AND RENOVATIONS TO  
McKnight Road  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124**

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NO	DATE	REVISIONS
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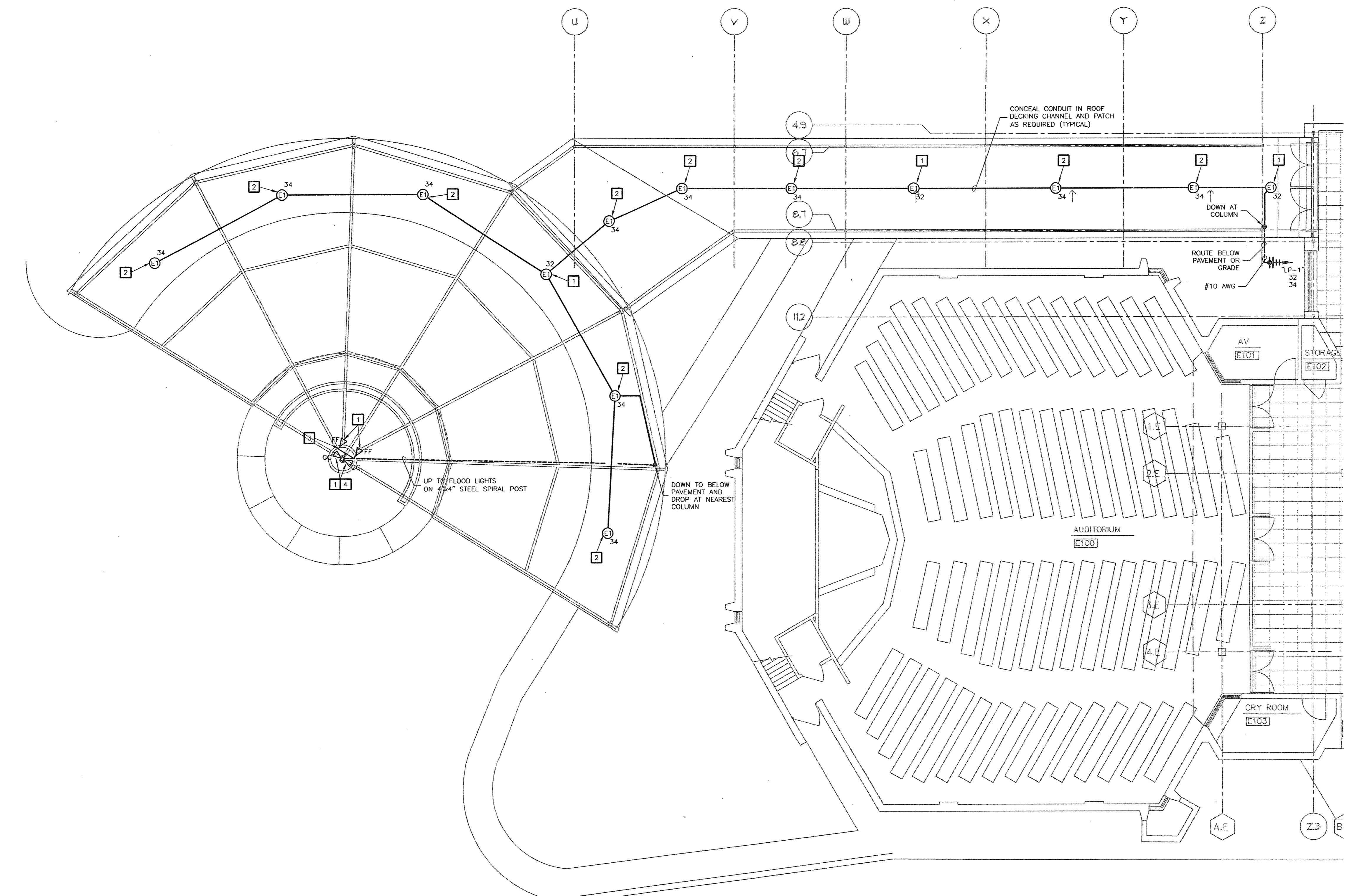
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**PROJECT:  
ADDITION AND RENOVATIONS TO  
McKnight Road  
Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST. LOUIS, MO 63124**



**CANOPY PLAN - LIGHTING ALTERNATE #1**

SCALE: 1/8" = 1' - 0"

JW202789Rev0028EJdwg

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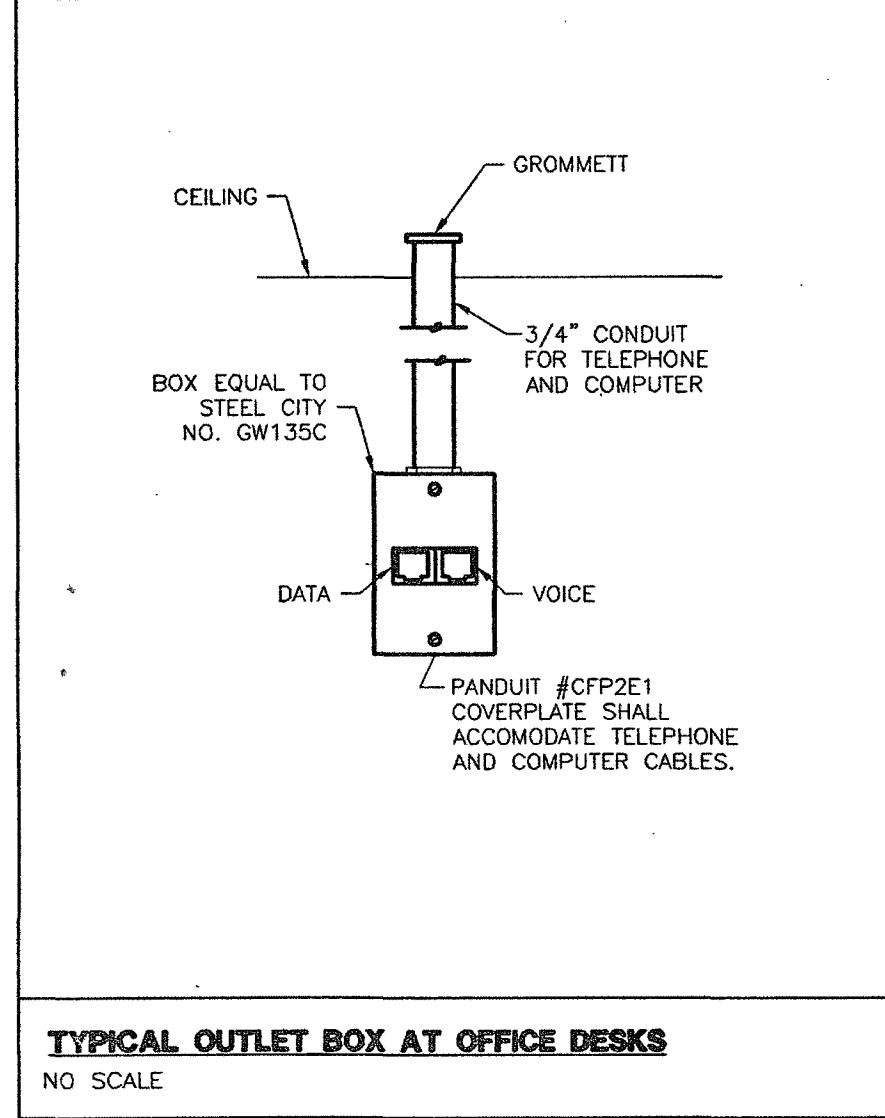
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**E1.2**

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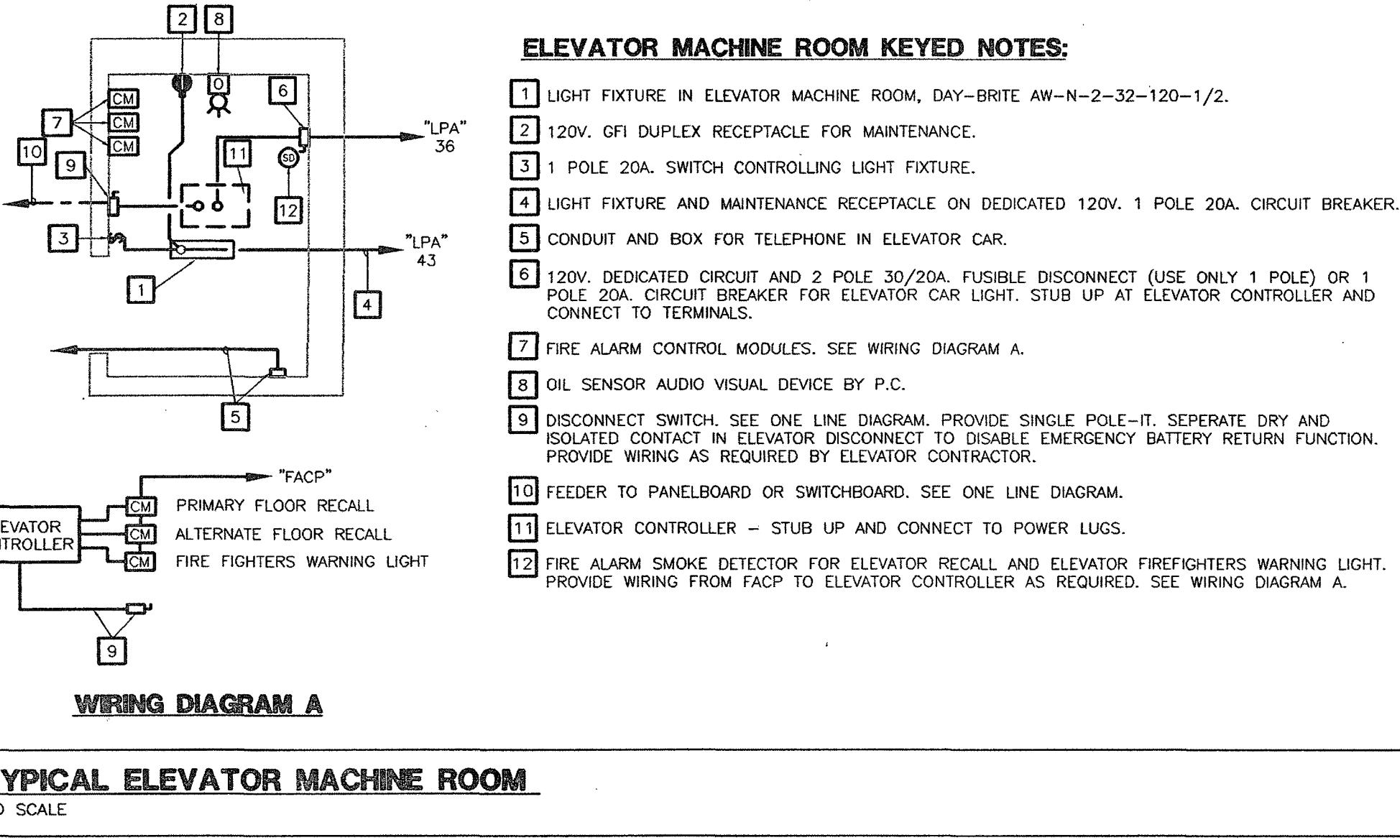
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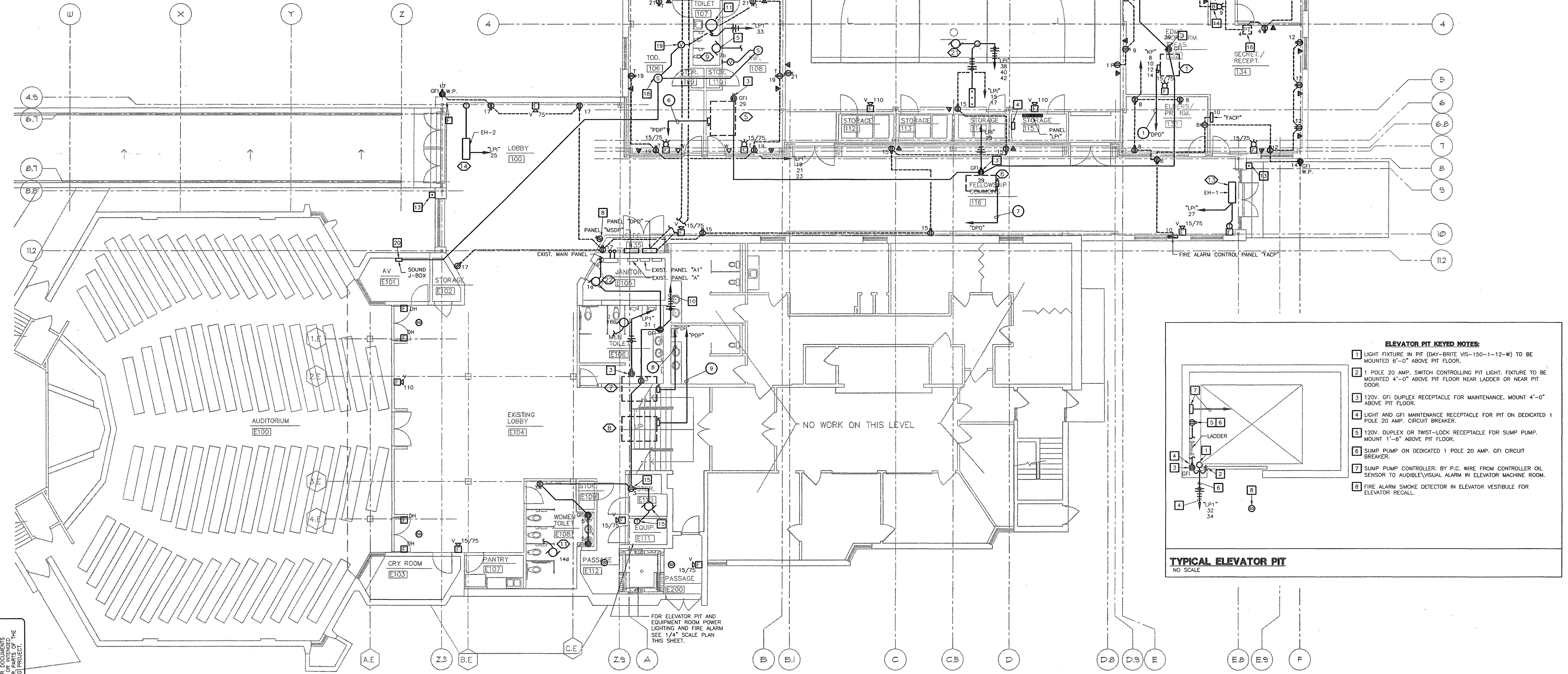
## **TYPICAL OUTLET BOX AT OFFICE DESKS**

NO SCALE



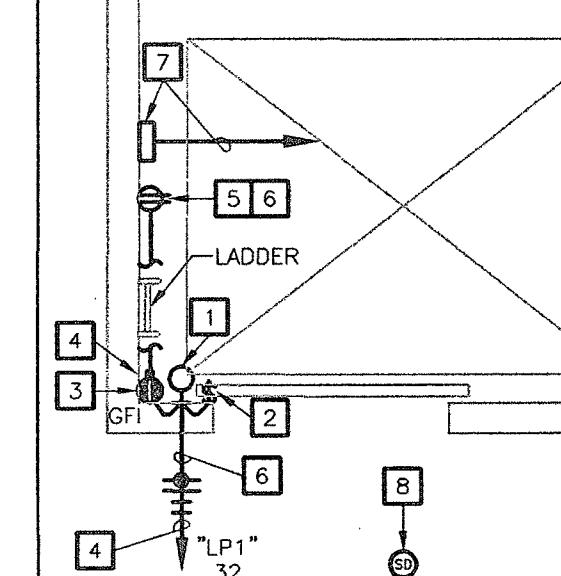
## TYPICAL ELEVATOR MACHINE ROOM

NO SCALE



#### **TYPICAL ELEVATOR PIT**

## **TYPICAL ELEVATOR PIT**



**PROJECT:  
ADDITION AND RENOVATIONS TO  
*Mcknight Road***

**Church of Christ  
2515 SOUTH MCKNIGHT ROAD  
ST LOIUS MO 63124**

## PROJECT: ADDITIVE

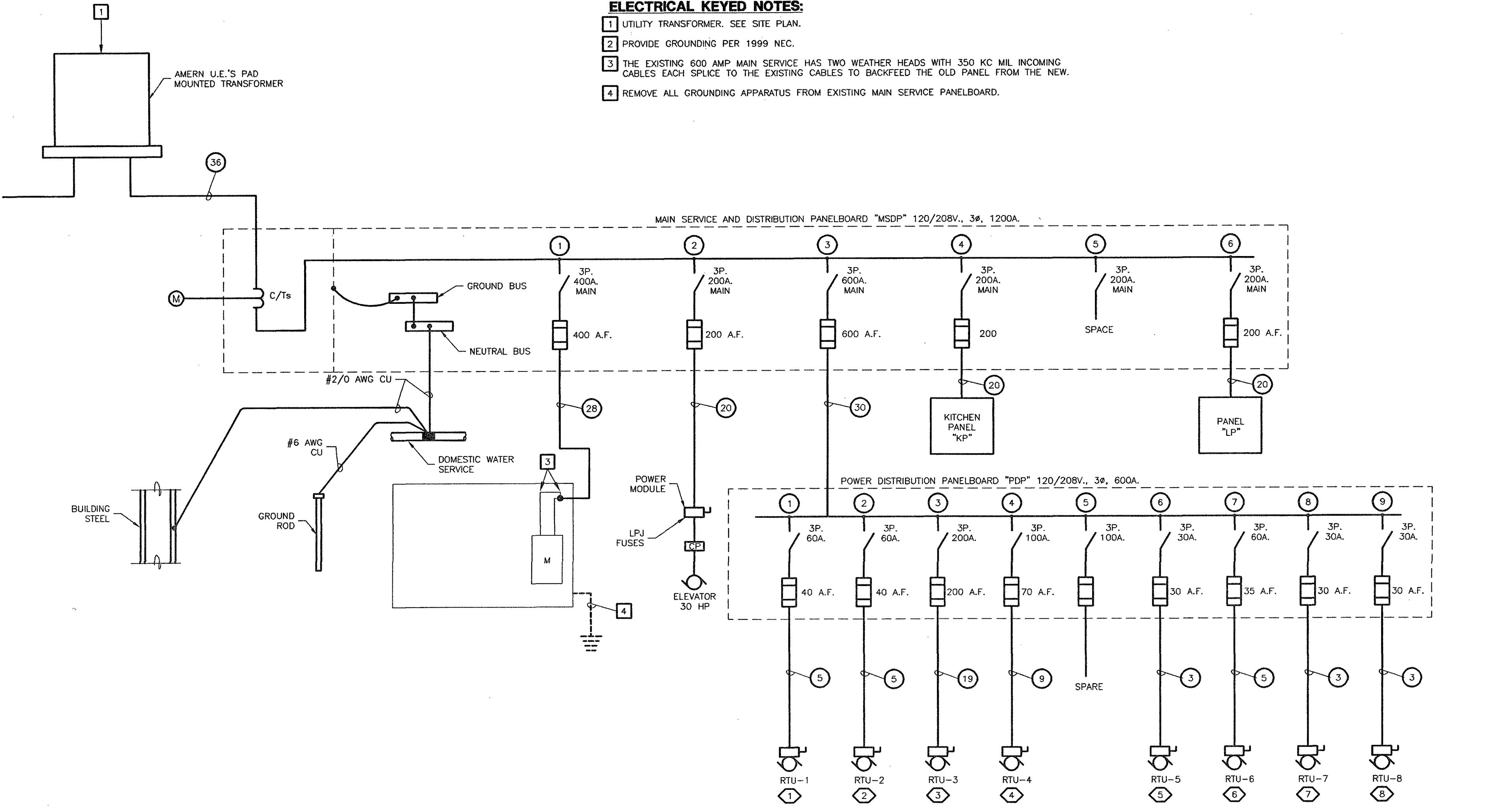
CHURCH OF  
515 SOUTH MCKNIGHT R  
T 101S MO 63124

2515 SOUTH MICHIGAN AVENUE CHURCH

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DRAWN BY: JWV F-10

E1-3

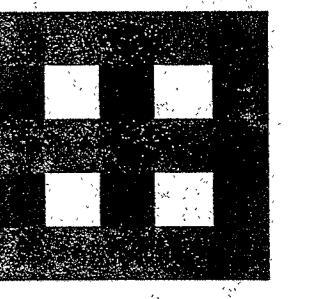


FEEDER SCHEDULE		
PLAN MARK	AMPERAGE	FEEDER SIZE
1	20A.	3 #12 & #12G., 3/4"
2	20A.	4 #12 & #12G., 3/4"
3	30A.	3 #10 & #10G., 3/4"
4	30A.	4 #10 & #10G., 3/4"
5	50A.	3 #8 & 1 #10G., 3/4"
6	50A.	4 #8 & 1 #10G., 3/4"
7	60A.	3 #6 & 1 #10G., 3/4"
8	60A.	4 #6 & 1 #10G., 1"
9	80A.	3 #4 & 1 #8G., 1-1/4"
10	80A.	4 #4 & 1 #8G., 1-1/4"
11	100A.	3 #3 & 1 #8G., 1-1/4"
12	100A.	4 #3 & 1 #8G., 1-1/4"
13	125A.	3 #1 & 1 #6G., 1-1/2"
14	125A.	4 #1 & 1 #6G., 1-1/2"
15	150A.	3 #10 & #10G., 1-1/2"
16	150A.	4 #10 & #10G., 1-1/2"
17	175A.	3 #20 & 1 #6G., 2"
18	175A.	4 #20 & 1 #6G., 2"
19	200A.	3 #30 & 1 #6G., 2"
20	200A.	4 #30 & 1 #6G., 2"
21	225A.	3 #40 & 1 #4G., 2"
22	225A.	4 #40 & 1 #6G., 2"
23	250A.	3-250 MCM & 1 #4G., 2-1/2"
24	250A.	4-250 MCM & 1 #4G., 2-1/2"
25	300A.	3-350 MCM & 1 #4G., 3"
26	300A.	4-350 MCM & 1 #4G., 3"
27	400A.	3-500 MCM & 1 #3G., 3"
28	400A.	4-500 MCM & 1 #3G., 4"
29	600A.	TWO SETS OF 3-350 MCM & 1 #1G., 3"
30	600A.	TWO SETS OF 4-350 MCM & 1 #1G., 4"
31	800A.	TWO SETS OF 3-500 MCM & 1 #1G., 3"
32	800A.	TWO SETS OF 4-500 MCM & 1 #1G., 4"
33	1000A.	THREE SETS OF 3-500 MCM & 1 #2/0G., 3"
34	1000A.	THREE SETS OF 3-600 MCM & 1 #2/0G., 4"
35	1200A.	FOUR SETS OF 3-350MCM & 1 #3/0G., 3"
36	1200A.	FOUR SETS OF 4-350 MCM & 1 #3/0G., 4"
37	1600A.	FOUR SETS OF 3-600 MCM & 1 #4/0G., 4"
38	1600A.	FOUR SETS OF 4-600 MCM & 1 #4/0G., 4"
39	2000A.	SIX SETS OF 4-500 MCM & 1-250G., 3"
40	2000A.	SIX SETS OF 4-500 MCM & 1-250G., 4"

LIGHTING FIXTURE SCHEDULE						
SYMBOL	MANUFACTURER CATALOG NO.	VOLTAGE	LAMP DATA GTY.	DESCRIPTION	MOUNTING	FINISH
A2	DAY-BRITE	120	2	32W. T8	RECESSED	WHITE
-	ZSPG232-FS-12-UNV-1/2EB	-	-	-	-	LENSED TROFFER
A3	DAY-BRITE	120	3	32W. T8	RECESSED	WHITE
-	ZSPG332-FS-12-UNV-1/3EB	-	-	-	-	LENSED TROFFER
A4	DAY-BRITE	120	4	32W. T8	RECESSED	WHITE
-	ZSPG432-FS-12-UNV-1/4EB	-	-	-	-	LENSED TROFFER
B2	DAY-BRITE	120	2	32W. T8	RECESSED	WHITE
-	IDG232-FS-12-UNV-1/2EB	-	-	-	-	LENSED TROFFER
C2	DAY-BRITE	120	2	31W. T8	RECESSED	WHITE
-	ZSPG312-FS-12-UNV-1/2EB	-	-	-	-	LENSED TROFFER
D2	DAY-BRITE	120	2	32W. T8	SURFACE	WHITE
-	OWW-232-UNV-1/2EB	-	-	-	-	FLUORESCENT FIXTURE
E1	DAY-BRITE	120	1	70W. M.H.	SURFACE	WHITE
-	DS5070M120-DPM	-	-	-	-	SURFACE MOUNTED CANOPY LIGHT
F1	INTRIPID	120	9	LAMPS	CEILING	WHITE
-	PMD-9/368X-120-IRS/EDM-PML-HK	-	-	-	HOOK	-
-	-	-	-	-	-	3 LEVEL SWITCHING
-	-	-	-	-	-	USE LUTRON ECO-10 BALLAST
G1	DAY-BRITE	208	1	250W.	POLE	BRONZE
-	SBX-250M-12-MC3-MCLTA105/-	-	-	-	METAL HALIDE	-
-	SQ5415G11-012/BRZ	-	-	-	-	ON 16" POLE
G2	DAY-BRITE	208	1	250W.	POLE	BRONZE
-	FLU-250M-MT-1SFBRZ	-	-	-	METAL HALIDE	-
X	EMERG-LITE	120	-	LED	SURFACE	WHITE
-	ELXN-400-R	-	-	-	W/ RED	-
-	-	-	-	-	LETTERS	-
RA	OMEGA DM6250	120	1	250W.	RECESS	WHITE
-	PAR 38-WT	-	-	-	INCANDESCENT	-
-	-	-	-	-	DOWNLIGHT	-
TA	OMEGA DM62H2	120	2	26W.	RECESS	WHITE
-	OPL-WT	-	-	QO-14	-	COMPACT FLUORESCENT
EE	DAY-BRITE	120	1	150W.	SURFACE	ALUM.
-	V1S1501-12-C-6	-	-	-	CLG.	INCANDESCENT FIXTURE
FF	GARCO	120	1	175W.	SPIRAL	DARK
-	DF7-HFL-175MH-120-BRP	-	-	-	METAL HALIDE	BRONZE
GG	GARCO	120	1	39W.	SPIRAL	DARK
-	DSP5-U-PAR 30-BRP	-	-	-	METAL HALIDE	ABOVE PAVEMENT
HH	SE LUX M10	120	-	32W. T8	PENDANT	WHITE
-	178-MP-C-XXX-WH-120	-	-	-	-	MOUNT 8"-0" A.F. FLOOR TO BOTTOM OF FIXTURE

NOTE:  
1. EQUAL LIGHT FIXTURES BY HUBBELL AND COOPER WILL BE ACCEPTED.

ELECTRICAL SYMBOLS LEGEND		
LIGHTING FIXTURES		
A3J FLUORESCENT FIXTURE - CEILING MOUNTED. ALPHA-NUMERIC DESIGNATION DENOTES TYPE; SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION.		
BB2 FLUORESCENT FIXTURE - AS ABOVE - WALL MOUNTED 84" AFF (U.N.O.).		
C INCANDESCENT, FLUORESCENT OR H.I.D. FIXTURE - AS ABOVE - CEILING MOUNTED OR PENDANT MOUNTED TO HEIGHT INDICATED.		
D H WALL MOUNTED FIXTURE - AS ABOVE - 78" AFF (U.N.O.).		
E X EXIT LIGHT - CEILING MOUNTED; WALL MOUNT 7'-6" AFF OR ABOVE DOOR SHADeD PORTION INDICATES FACE; WITH DIRECTIONAL ARROW(S) AS INDICATED. FIXTURE TYPE "X" (U.N.O.).		
F G COMBINATION EXIT LIGHT WITH EMERGENCY LIGHTING HEADS. FIXTURE TYPE "X" (U.N.O.).		
G BOLLARD FIXTURE.		
H LIGHT POLE WITH SINGLE HEAD LUMINAIRE.		
I LIGHT POLE WITH TWO LUMINAIRES (OR MORE AS INDICATED).		
J SHADING DENOTES EMERGENCY FIXTURE.		
1a,b FIXTURE CIRCUIT NUMBER NOTATION: CIRCUIT NUMBER TO WHICH FIXTURE IS CONNECTED a,b LETTER(S) OF SWITCH(ES) CONTROLLING FIXTURE NL NIGHT LIGHT (UNSWITCHED CIRCUIT)		
WIRING DEVICES		
S\$ SINGLE POLE SWITCH - "0" INDICATES SWITCH LEG - MOUNT 48" AFF.		
S\$ THREE WAY SWITCH - AS ABOVE.		
BS TIME SWITCH - MOUNT 60" AFF.		
PC PHOTOCELL MOUNTED IN WP OUTLET BOX LOCATED ON ROOF, FACING NORTH, (U.N.O.).		
LC LIGHTING CONTACTOR FOR NUMBER OF CIRCUITS AS INDICATED ON PLAN.		
O JUNCTION BOX OR POINT OF CONNECTION - MOUNT 18" AFF OR AT HEIGHT REQUIRED BY RESPECTIVE EQUIPMENT ITEM MANUFACTURER.		
DUPLEX RECEPTACLE - MOUNT 18" AFF.		
DUPLEX RECEPTACLE - AS ABOVE.		
DUPLEX RECEPTACLE ABOVE - SPLIT WIRED, TOP HALF SWITCHED.		
DUPLIX 6" ABOVE COUNTER OR WALL HUNG LAVATORY.		
SPECIAL PURPOSE OUTLET - MOUNT 18" AFF.		
MOTORS AND EQUIPMENT		
30/20/3 DISCONNECT SWITCH (FUSED OR NON-FUSED AS INDICATED) - MOUNT 60" AFF. 30/20/3 INDICATES SWITCH AMPS/FUSE AMPS/POLES.		
M MOTOR STARTER, NEMA SIZE TO SUIT EQUIPMENT SERVED, WITH HAND-OFF-AUTO SELECTOR SWITCH.		
XH COMBINATION MOTOR STARTER, AS ABOVE AND DISCONNECT SWITCH.		
30/2 EB ENCLOSED CIRCUIT BREAKER; AMPS/POLES RATING AS INDICATED.		
SM MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION - MOUNT ON SIDE OF UNIT OR AT 48" AFF.		
CP CONTROL PANEL FOR EQUIPMENT ITEM INDICATED ON PLAN.		
VF VARIABLE FREQUENCY DRIVE FOR EQUIPMENT ITEM INDICATED ON PLAN.		
MP MULTIPLE PUSH BUTTONS - MOUNT 48" AFF, AS INDICATED (U.N.O.).		
EM ELECTRIC MOTOR.		
EW BRANCH CIRCUIT PANELBOARD - MOUNT TOP 78" AFF.		
EW SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER.		
DRY-TYPE TRANSFORMER.		
KH KILOWATT HOUR METER BASE.		
CIRCUITRY DESIGNATIONS		
B BRANCH CIRCUITRY CONCEALED IN WALLS OR ABOVE CEILINGS. ARROW INDICATES HOME RUN TO PANEL. SHORT SLASH MARKS INDICATE CHASES. LONG SLASH MARK INDICATES "NEUTRAL"		



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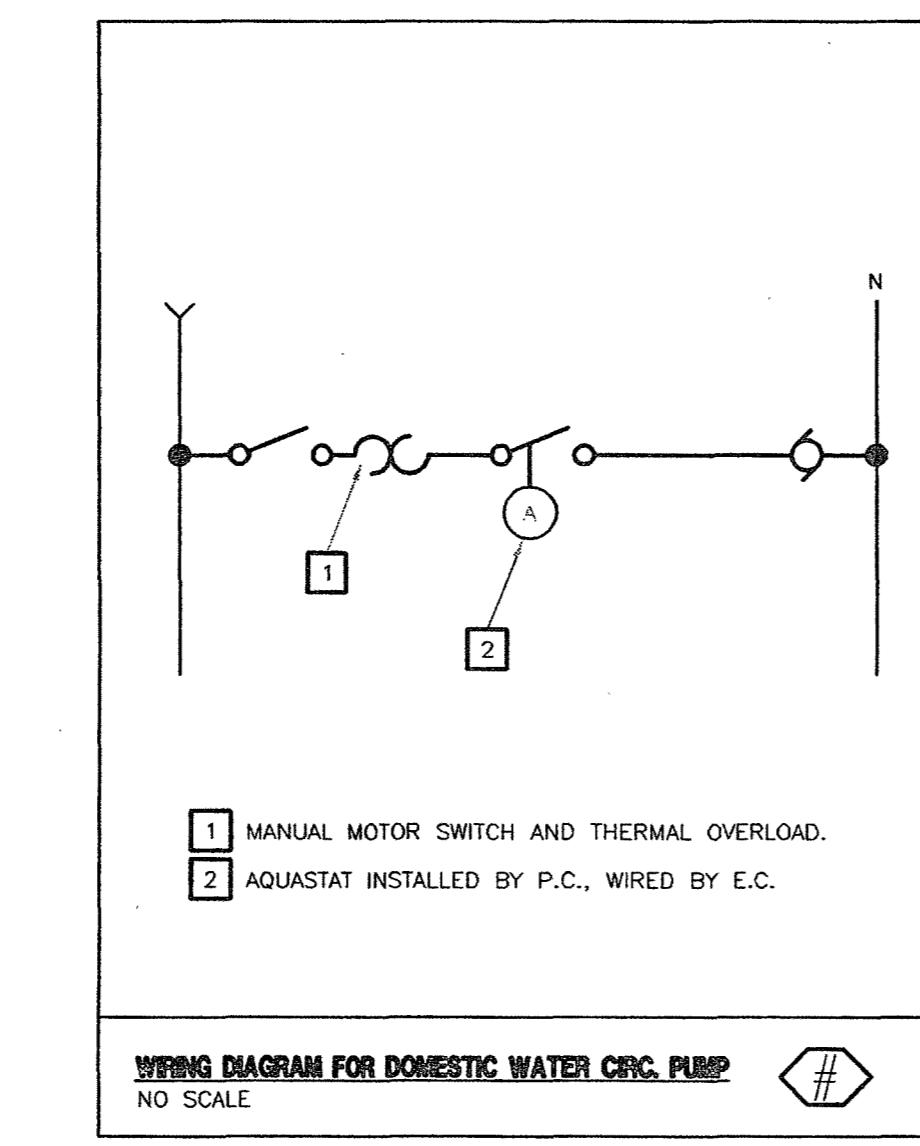
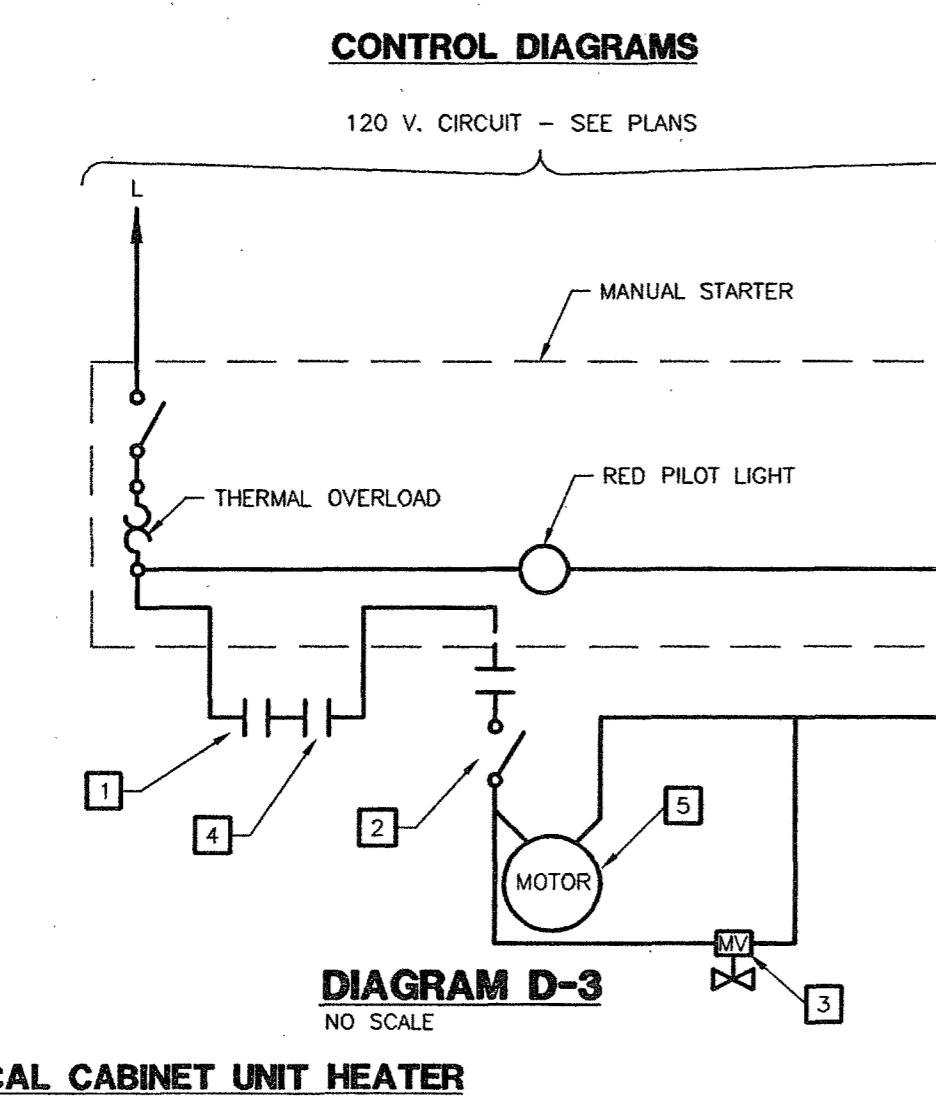
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### **TYPICAL CABINET UNIT H**

- NOTES:**

  - 1 CONTROL DEVICE SUCH AS THERMOSTAT, FURNISHED BY M.C., WIRED BY E.C. (WHEN RECOMMENDED).
  - 2 DISCONNECT AT MOTOR WHERE INDICATED ON DRAWING OR REQUIRED BY CODE. DISCONNECT FURNISHED BY M.C. AS PART OF FAN WHEN MOTOR IS ROOF FAN.
  - 3 SINGLE PHASE, 120 VOLT MOTOR.
  - 4 AQUASTAT FURNISHED BY M.C., WIRED BY E.C..
  - 5 120 VAC MOTORIZED VALVE FURNISHED BY M.C., WIRED BY E.C..

## **NOTES FOR SCHEMATIC CONTROL DIAGRAM**

1. USE MINIMUM #14 AWS CONTROL WIRING.
  2. PROVIDE RESET BUTTON IN COVER OF ALL STARTERS.
  3. REFER TO MOTOR CONTROL SCHEDULE FOR MOTOR HORSEPOWERS, STARTERS, ETC..
  4. ALL CONTROL CIRCUITS TO OPERATE AT 120 VOLTS A.C. UNLESS OTHERWISE NOTED.
  5. DO NOT WIRE OVERLOAD CONTACTS OR OTHER SWITCHING DEVICES IN GROUNDED SIDE CONTROL CIRCUIT.
  6. THESE DIAGRAMS ARE A GUIDE AS TO THE INTENDED MODE OF OPERATION AND REQUIRE INTERLOCKING WIRING. E.C. SHALL REFER TO AND COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR'S SHOP DRAWINGS FOR PRECISE DEVICES AND CONTROL DEVICE
  7. ALL WIRING SHOWN SOLID ON THESE DIAGRAMS ARE BY E.C. UNLESS OTHERWISE NOTED.
  8. E.C. TO PROVIDE THE REQUIRED NUMBER OF AUXILIARY CONTACTS IS STARTERS. E.C. TO COORDINATE THE CONTROL TRANSFORMER VA REQUIREMENTS WITH THE TEMPERATURE CONTROL CONTRACTOR AND PROVIDE ADEQUATELY SIZED TRANSFORMERS IN STARTER AS REQUIRED BY STARTER BURDEN AND CONTROL DEVICE BURDENS.
  9. THE INDIVIDUAL DIAGRAMS (OTHER THAN D-1) SHOWN ON THIS SHEET ARE APPLICABLE WHEN REFERENCED IN THE "CONTROL DIAGRAM NO." COLUMN IN THE SCHEDULE ABOVE. DIAGRAM D-1 IS APPLICABLE TO ALL MAGNETIC FVNR STARTERS.
  10. COORDINATE EXACT LOCATIONS OF MOTORS WITH MECHANICAL DRAWINGS AND M.C. SHOP DRAWINGS.

**GENERAL NOTES:**

1. ALL FUSES SHALL BE BUSSMAN LPN OR LPS OR EQUAL UNLESS OTHERWISE NOTED.
  2. ALL FANS SHUT DOWN VIA THE TEMPERATURE CONTROLS UPON FIRE ALARM ACTIVATION. SEE FIRE ALARM RISER SHEET E-2.

PC = PLUMBING CONTRACTOR  
EX = INDICATES EXISTING  
EC = ELECTRICAL CONTRACTOR  
MC = MECHANICAL CONTRACTOR  
TCC = TEMPERATURE CONTROL CONTRACTOR  
ELEV = ELEVATOR CONTRACTOR

\* NON-FUSED AMPS AND POLES AS RE

**PROJECT:  
ADDITION AND RENOVATIONS TO  
*Mcknight Road*  
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PROJECT NO. SHEET NO.  
2001239  
DRAWN BY:  
JWW  
CHECKED BY:  
BG  
DATE:  
NOVEMBER 1, 2002

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CONSTRUCTION/BID DRAWINGS