

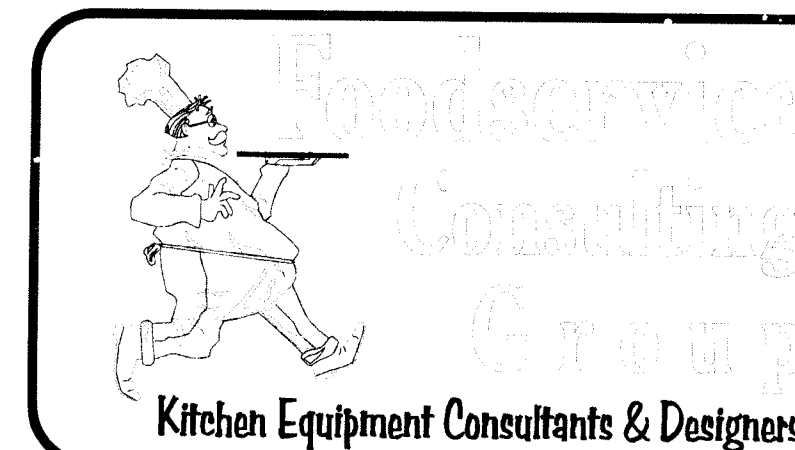
LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT OF
LAWRENCE TOWNSHIP
MARION COUNTY, INDIANA

GIBRALTAR DESIGN

ARCHITECTURE • ENGINEERING • INTERIOR DESIGN



CONTACT US:
6868 W. 96TH STREET
ZIONSVILLE, INDIANA 46077
(317) 873-5909
FAX: (317) 873-5909

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STRUCTURAL

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SB101		UNIT "A" FOUNDATION/SLAB PLAN
SF101		UNIT "A" ROOF FRAMING PLAN
SL101		UNIT "A" MASONRY PANEL REINFORCING/LINTEL PLAN
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FIRE PROTECTION

F	FP101	FIRE PROTECTION FLOOR PLAN & DETAILS
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PLUMBING

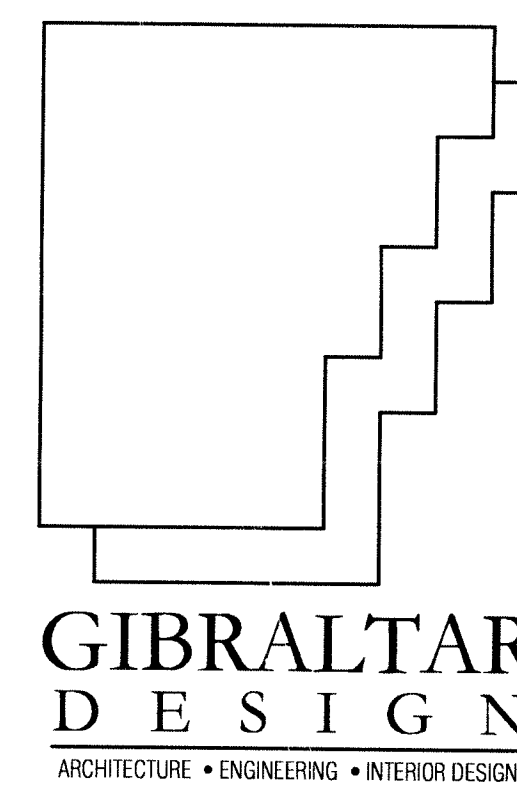
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MECHANICAL

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ELECTRICAL

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PROJECT

**LAWRENCE
CENTRALIZED
KINDERGARTEN**

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

GIBRALTAR DESIGN

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Phone: 317.580.5777 Fax: 317.580.5778

PROJECT

02-580

DATE

04/21/03

COORDINATED BY

LDH

DRAWN BY

SCP

CHECKED BY

LDH

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DRAWING
COVER SHEET, SHEET INDEX
AND LOCATION MAP

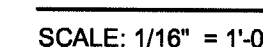
PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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SHEET

G1001

Set #2



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



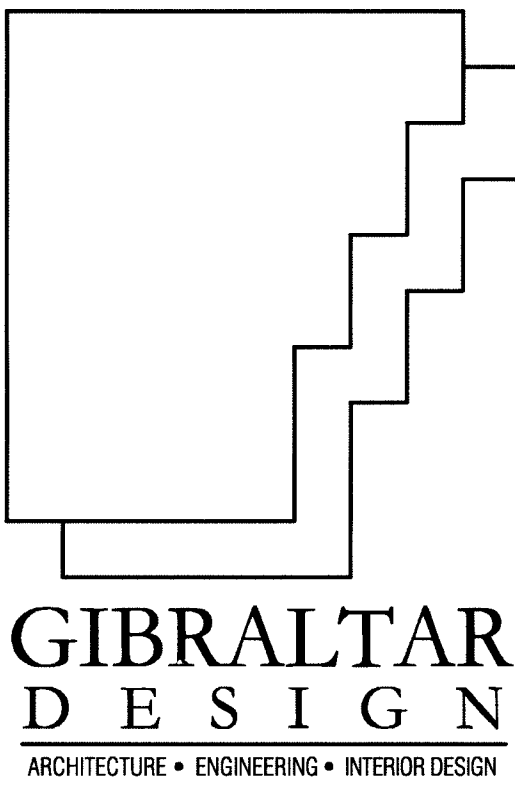
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LIFE SAFETY PLAN LEGEND

- 2-HOUR AREA SEPARATION - - - - -
- SMOKE SEPARATION WALL - - - - -
- DOORS WITH PANIC HARDWARE (PH)
- MAJOR EGRESS ROUTES - - - - ->
- DOOR WITH SMOKE HOLD OPEN (S)

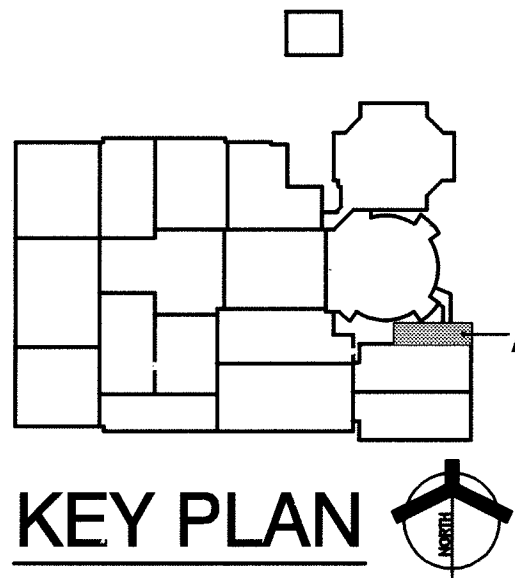
Building Square Footage
First Floor: 6,126 sq.ft.



PROJECT
**LAWRENCE
CENTRALIZED
KINDERGARTEN**
NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



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PROJECT
02-580
DATE
04/21/03
COORDINATED BY
JDH
DRAWN BY
SCP
CHECKED BY
JDH

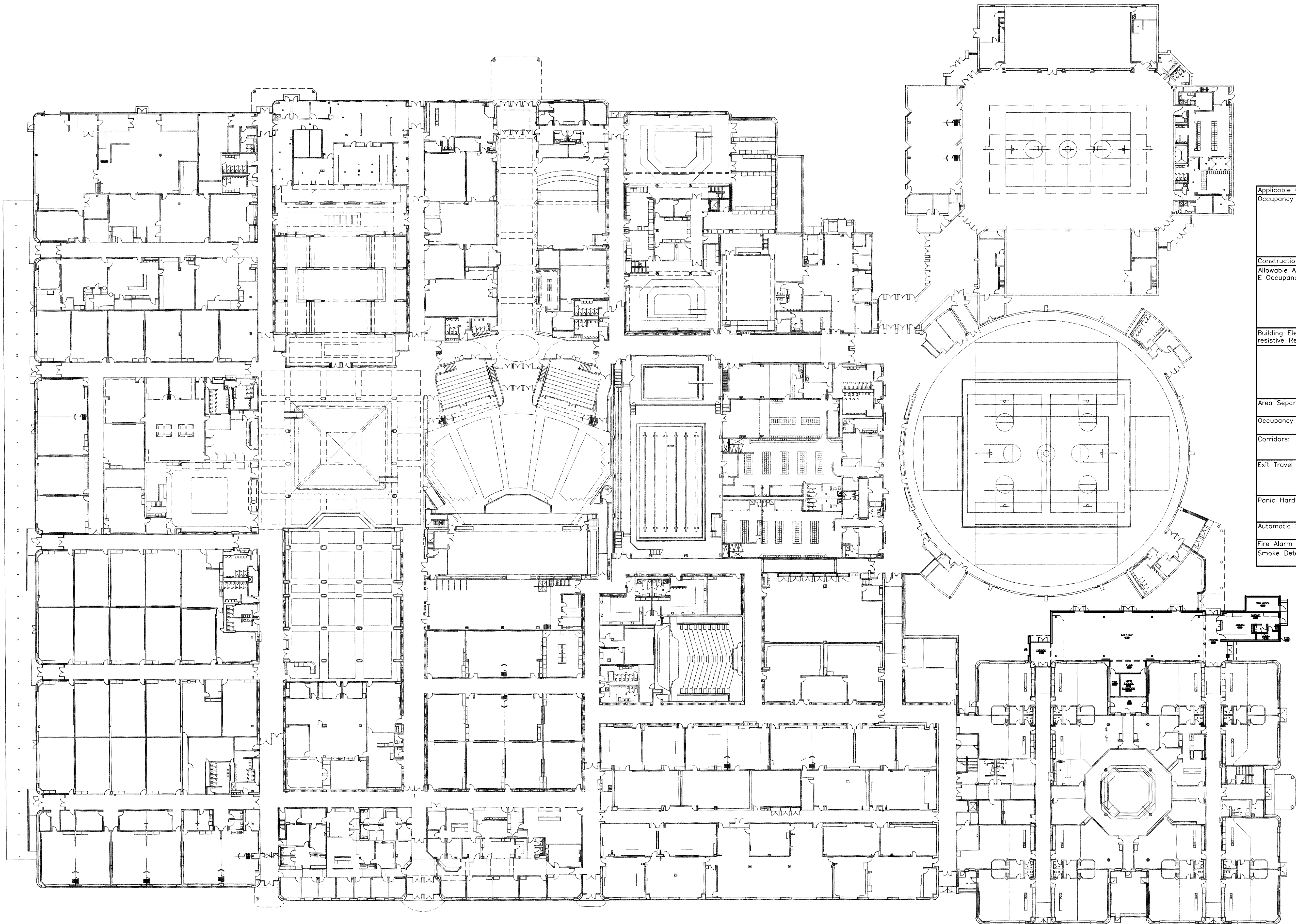
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DRAWING
UNIT "A" LIFE SAFETY PLAN

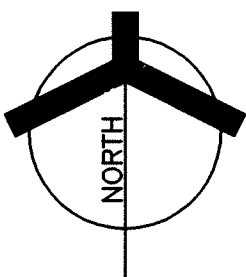
PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
SOUTH CAMPUS

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S G1003

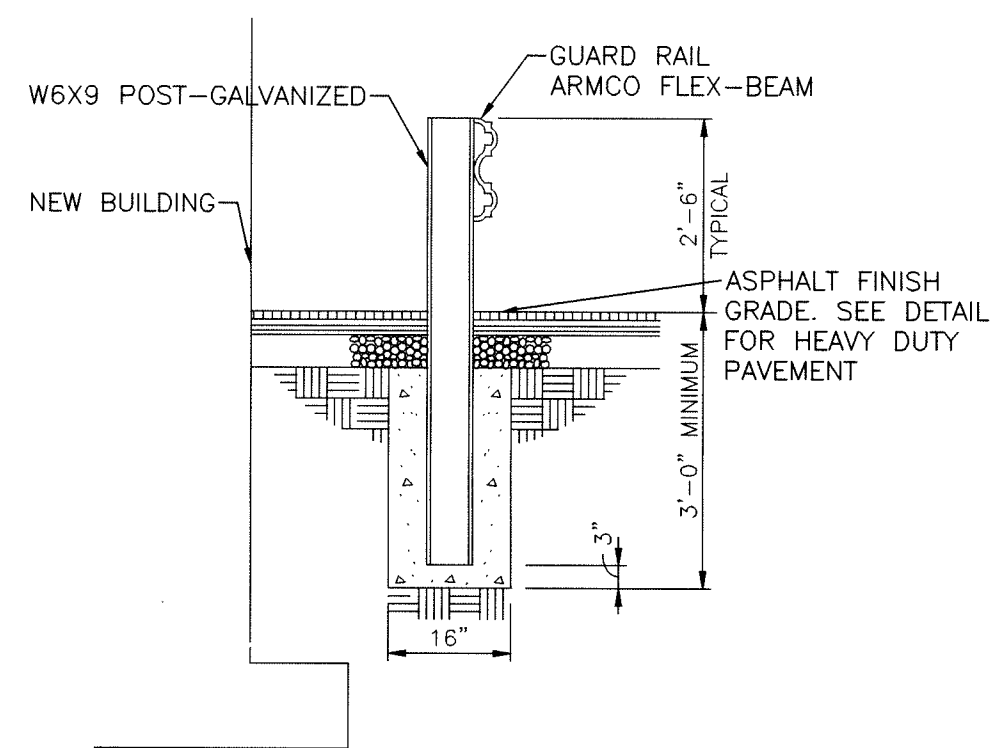


COMPOSITE FIRST FLOOR /LIFE SAFETY PLAN

SCALE: 1/32" = 1'-0"

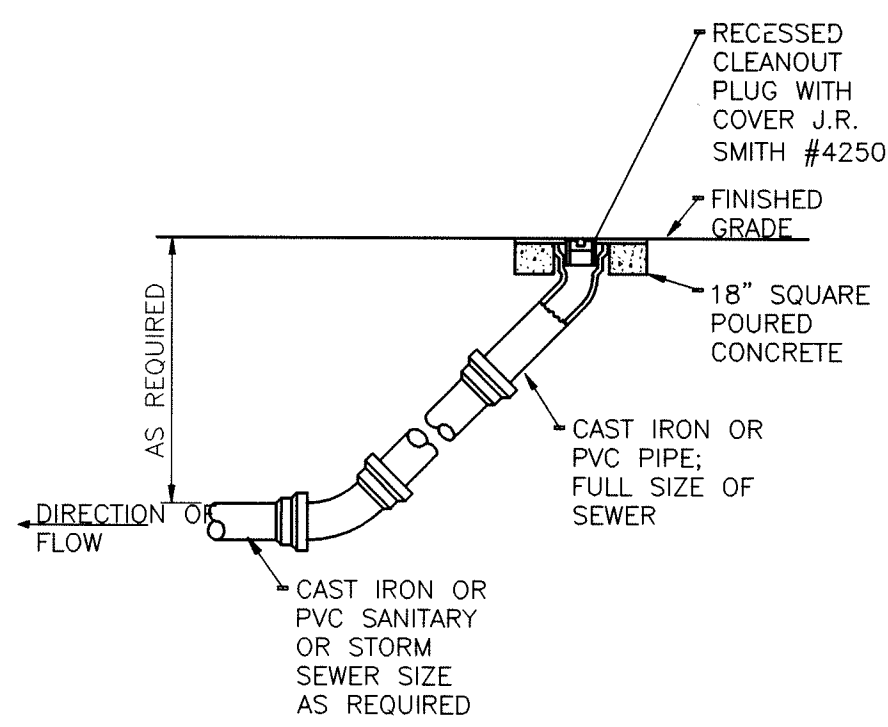


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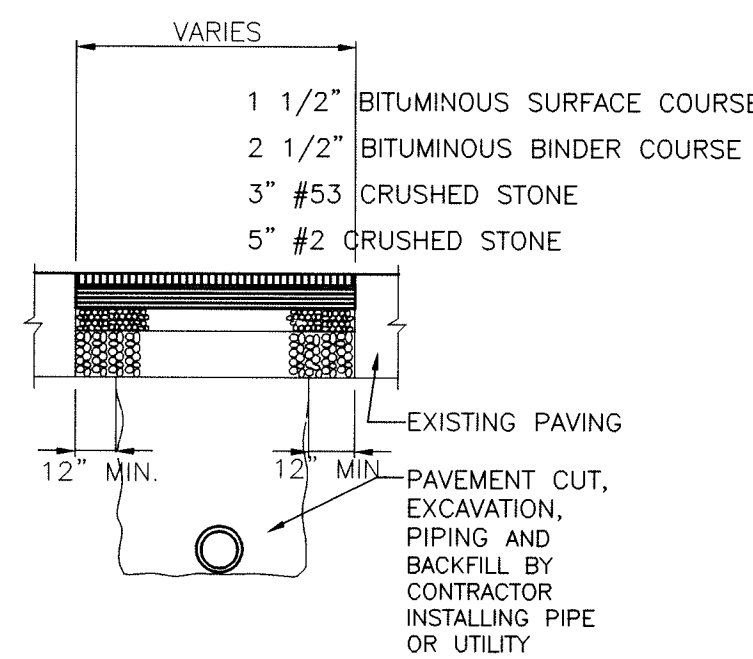
GUARD RAIL DETAIL
NOT TO SCALE

11
C-001



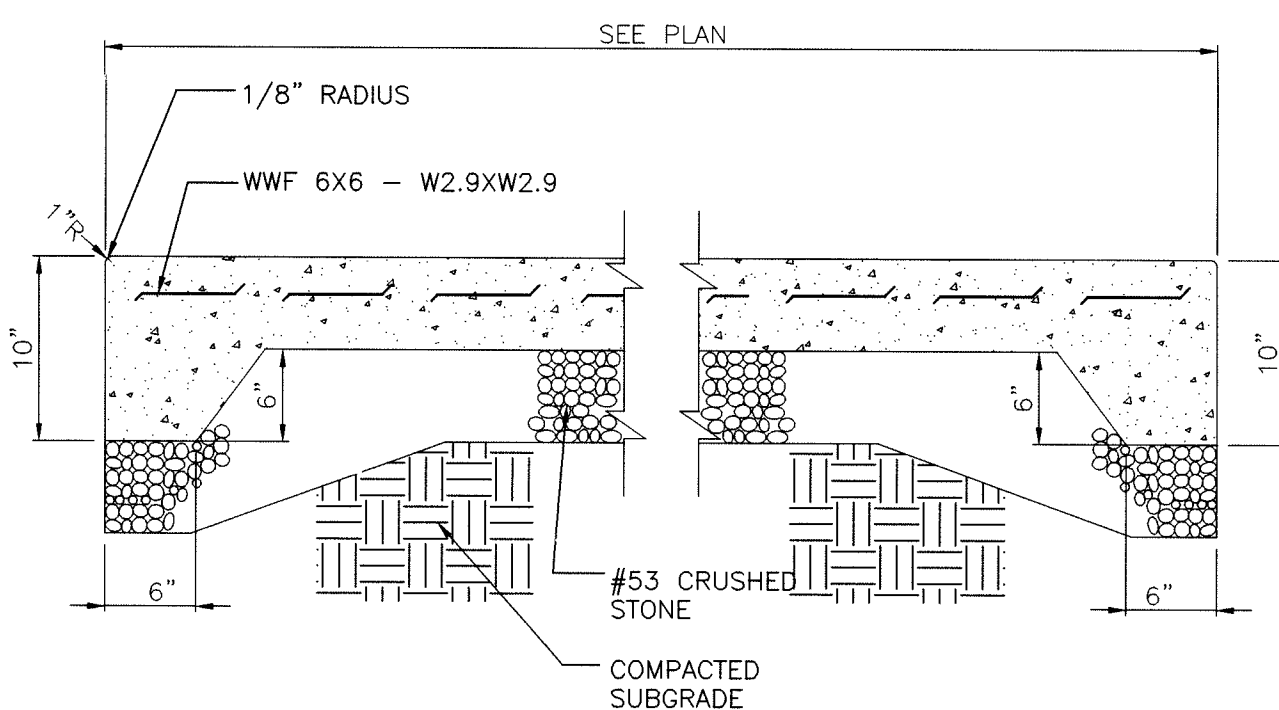
TYPICAL OUTSIDE CLEANOUT
NOT TO SCALE

12
C-001



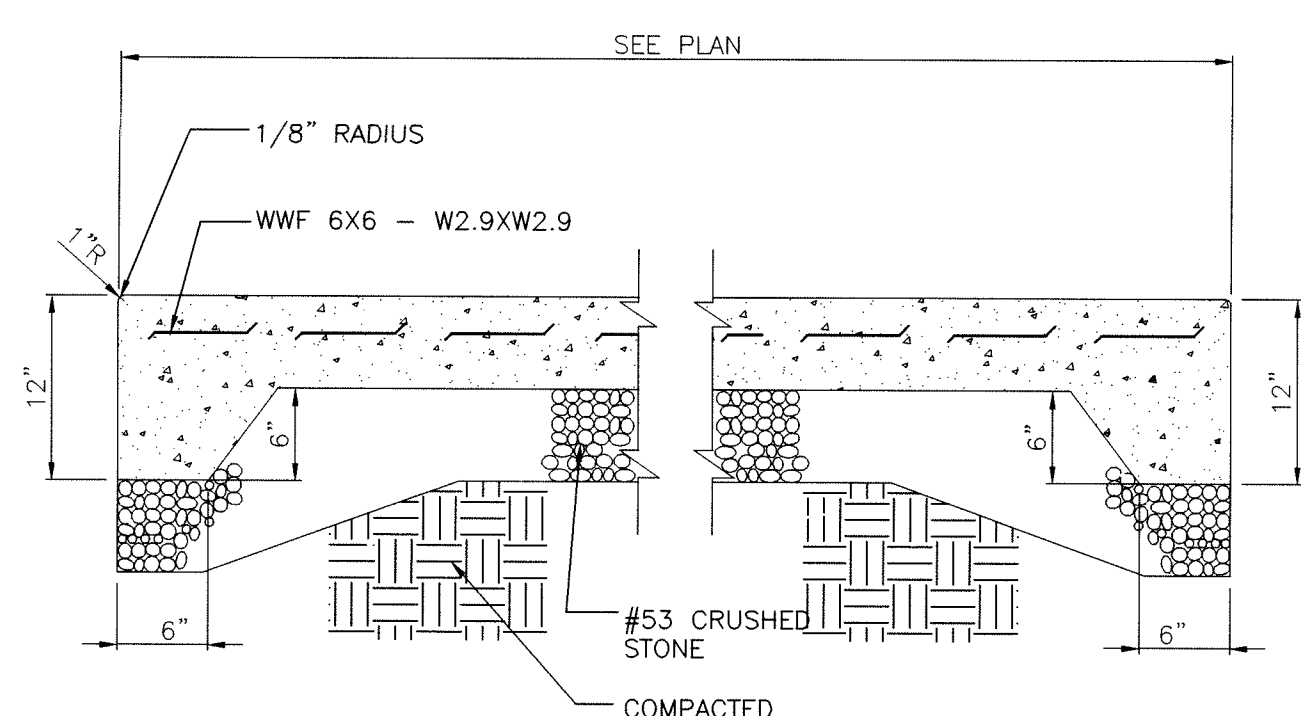
CUT AND REPAIR HEAVY DUTY PAVEMENT DETAIL
NOT TO SCALE

13
C-001



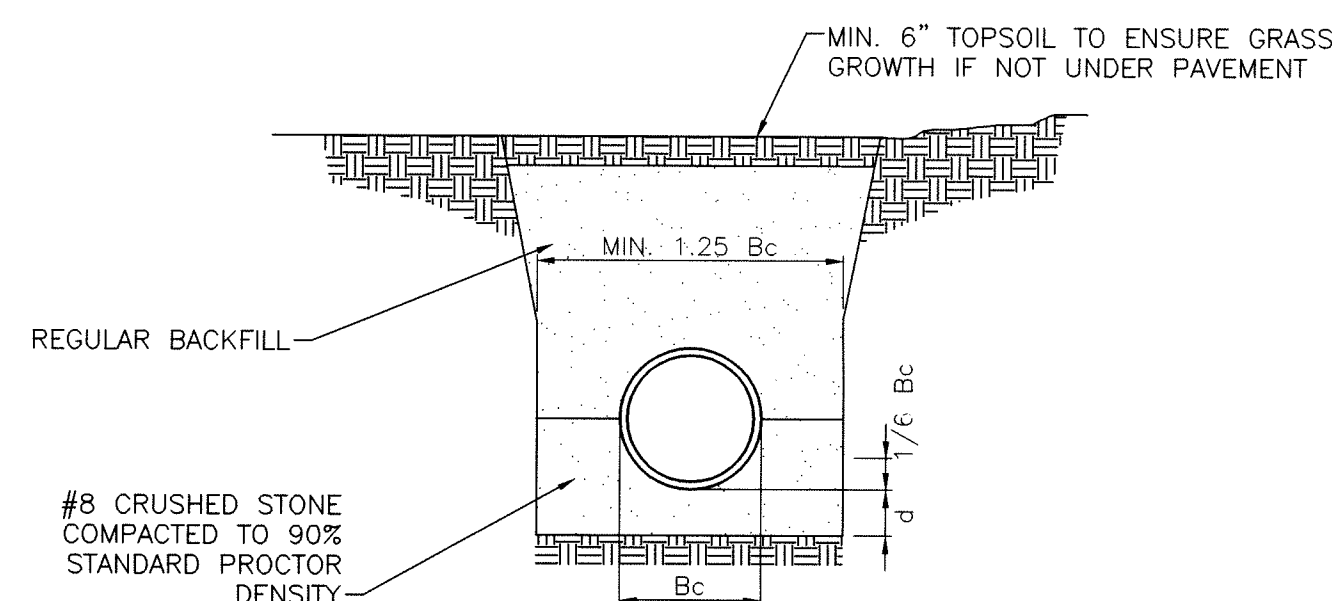
"4" CONCRETE SLAB
NOT TO SCALE

14
C-001



"6" CONCRETE SLAB DETAIL
NOT TO SCALE

15
C-001



NOTE:
ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS
A MINIMUM 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE

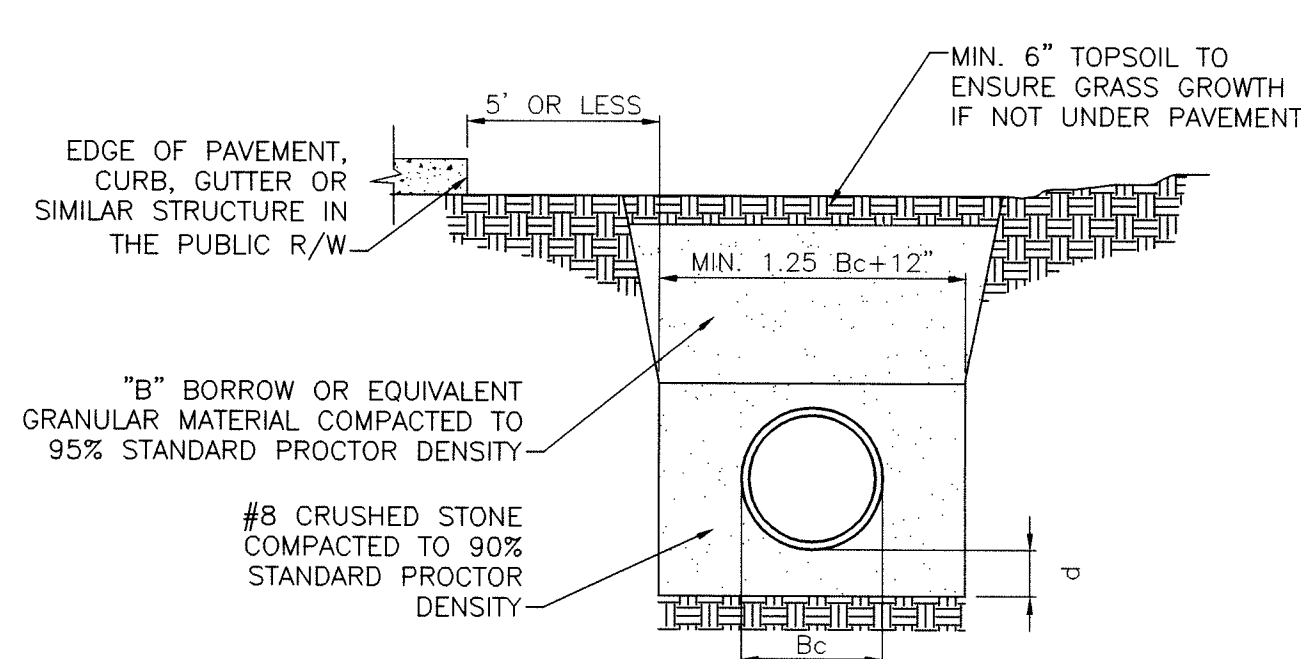
DEPTH OF BEDDING MATERIAL BELOW PIPE

D MIN.	(d)
27" AND SMALLER	3"
30" TO 60"	4"
66" AND LARGER	6"

LEGEND
Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL
GREATER THAN 5' FROM EDGE OF PAVEMENT
NOT TO SCALE

8
C-001



NOTE:
ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS
A MINIMUM 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE

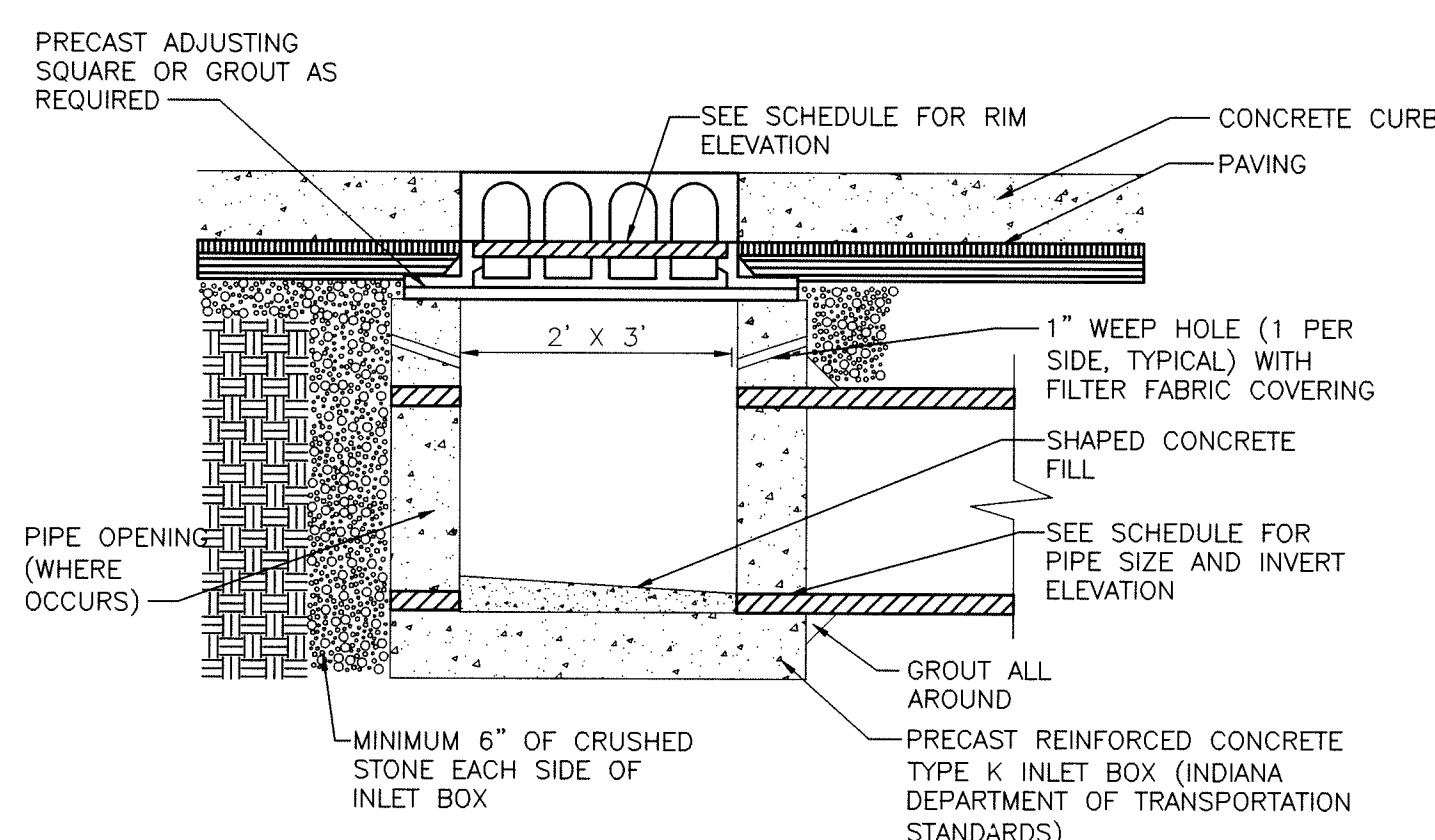
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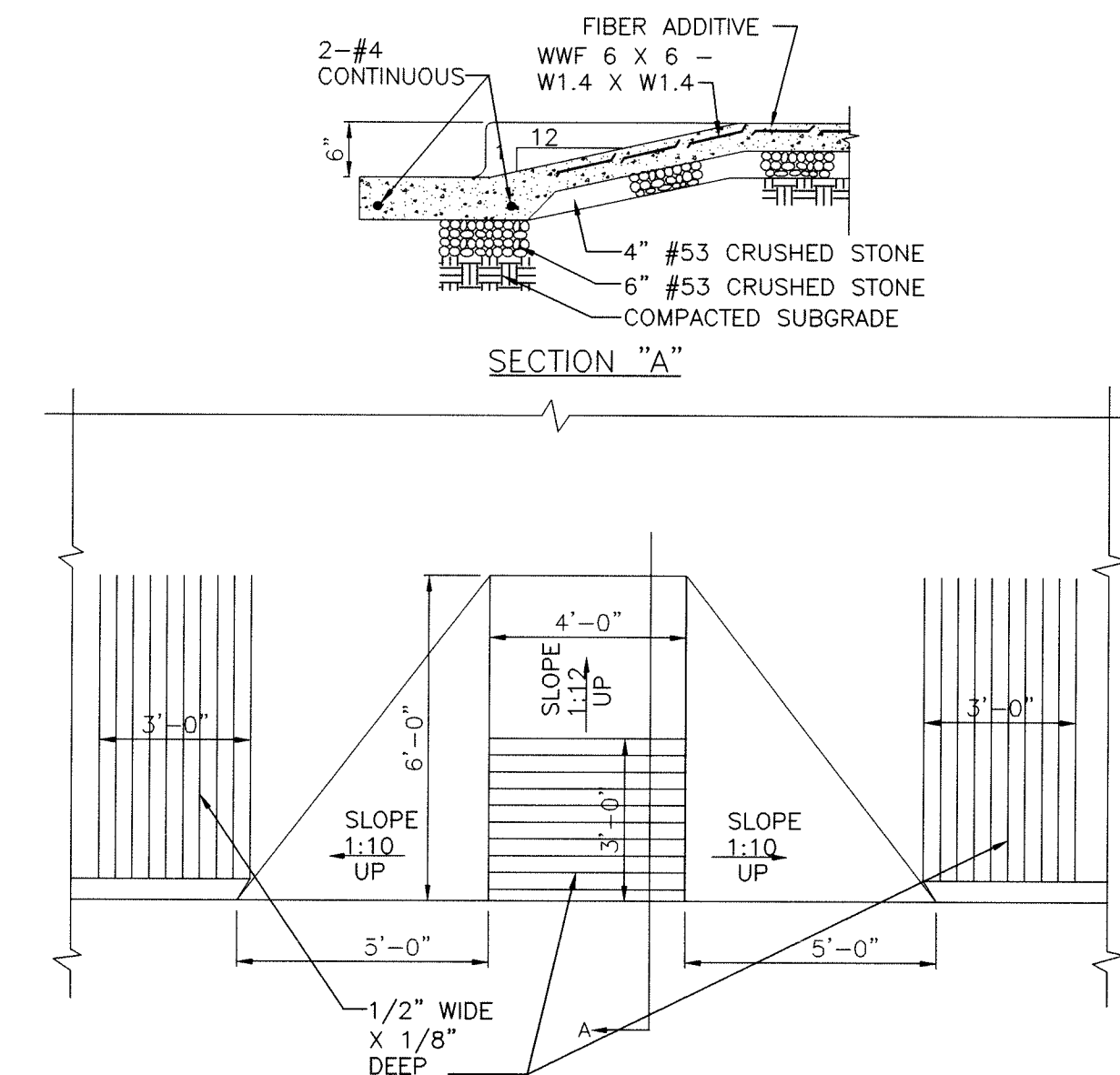
REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL
WITHIN THAN 5' OF EDGE OF PAVEMENT
NOT TO SCALE

9
C-001



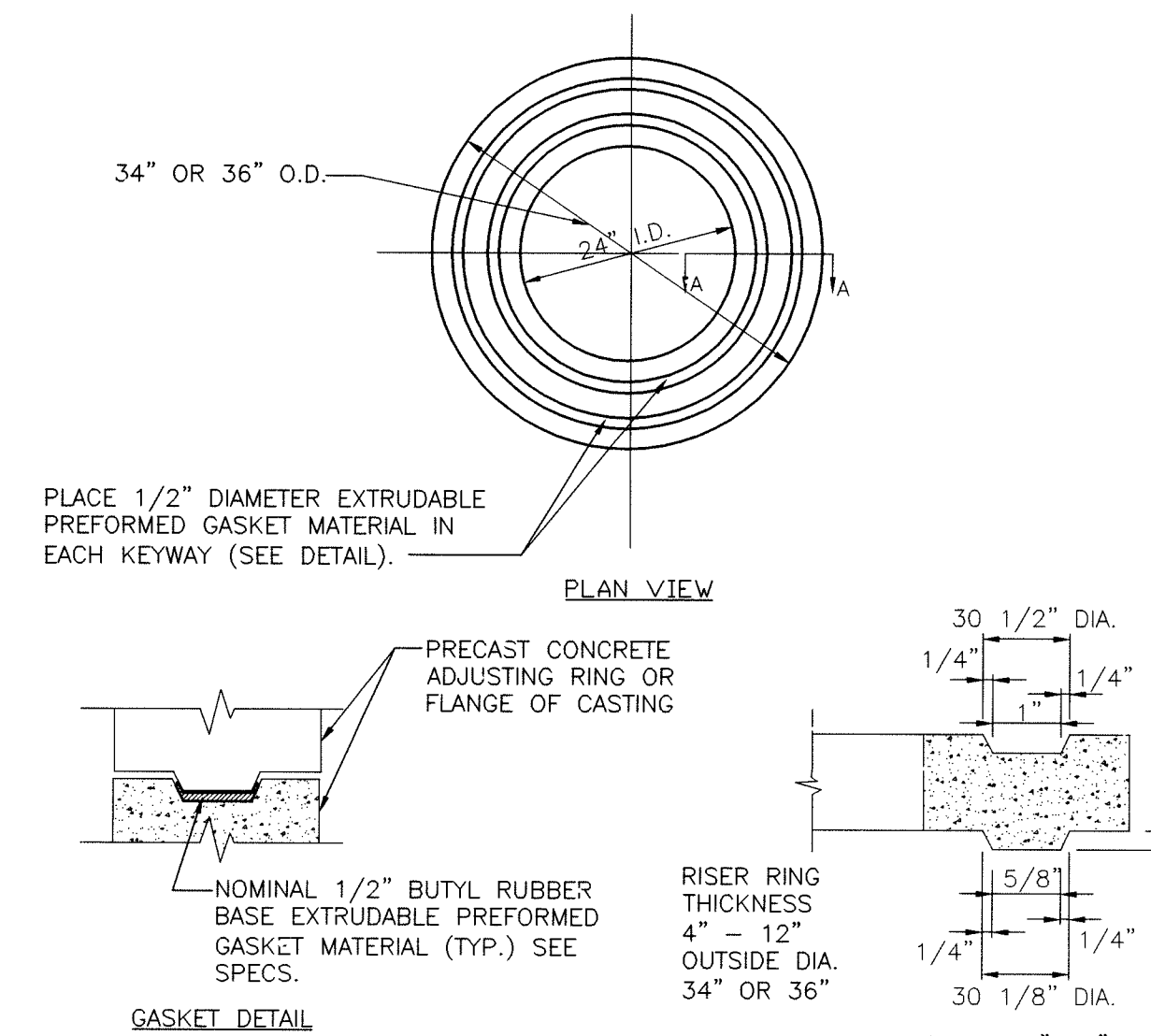
CURB INLET DETAIL
NOT TO SCALE

16
C-001



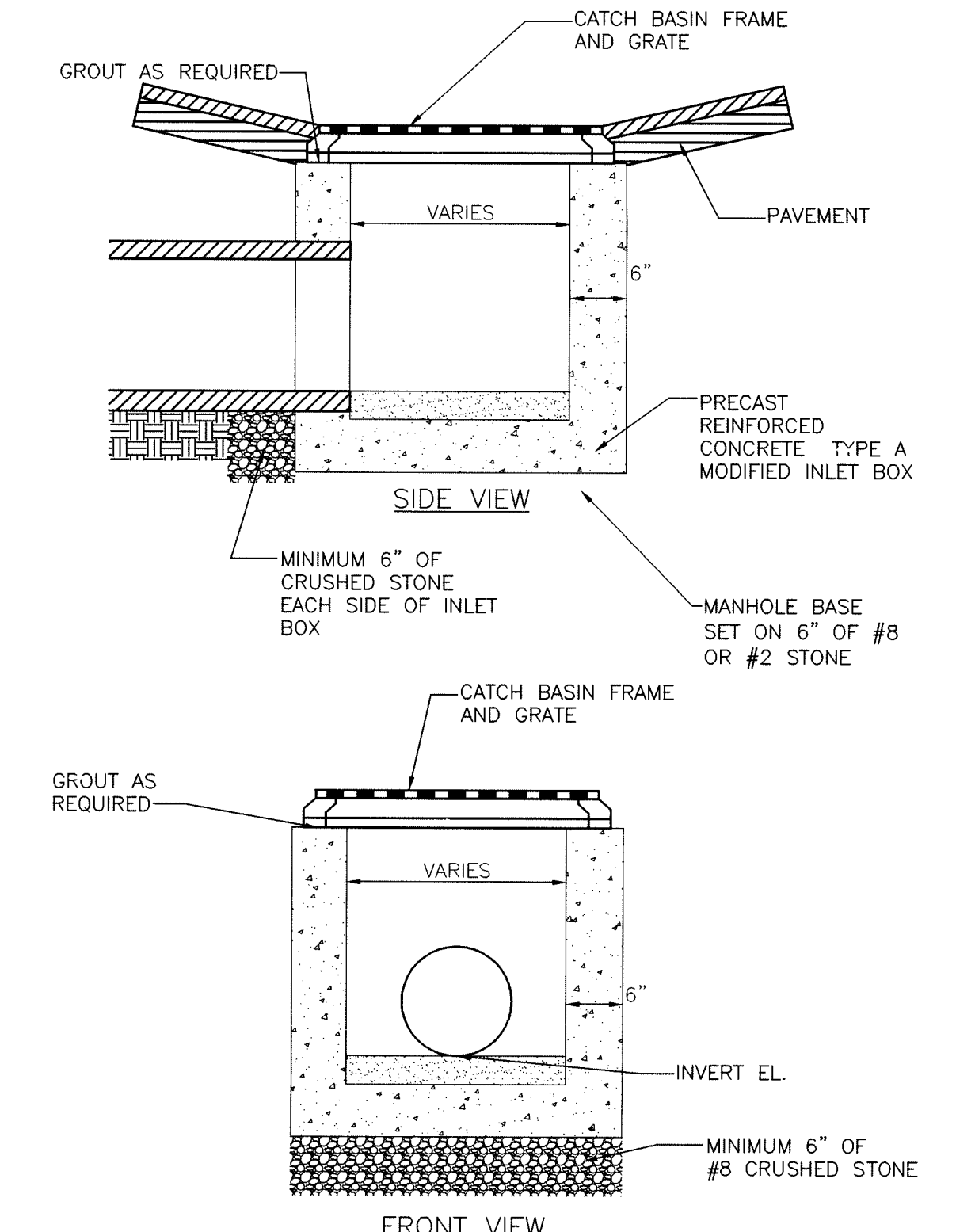
HANDICAP RAMP
NOT TO SCALE

5
C-001



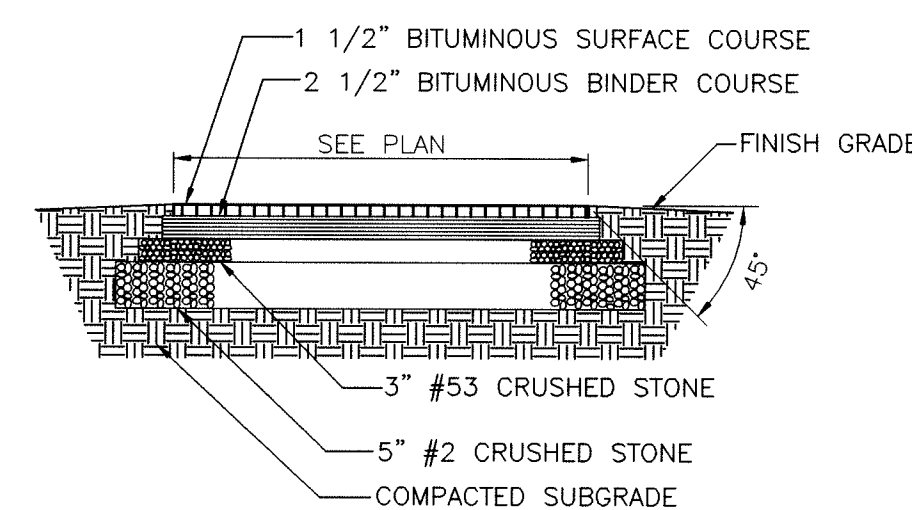
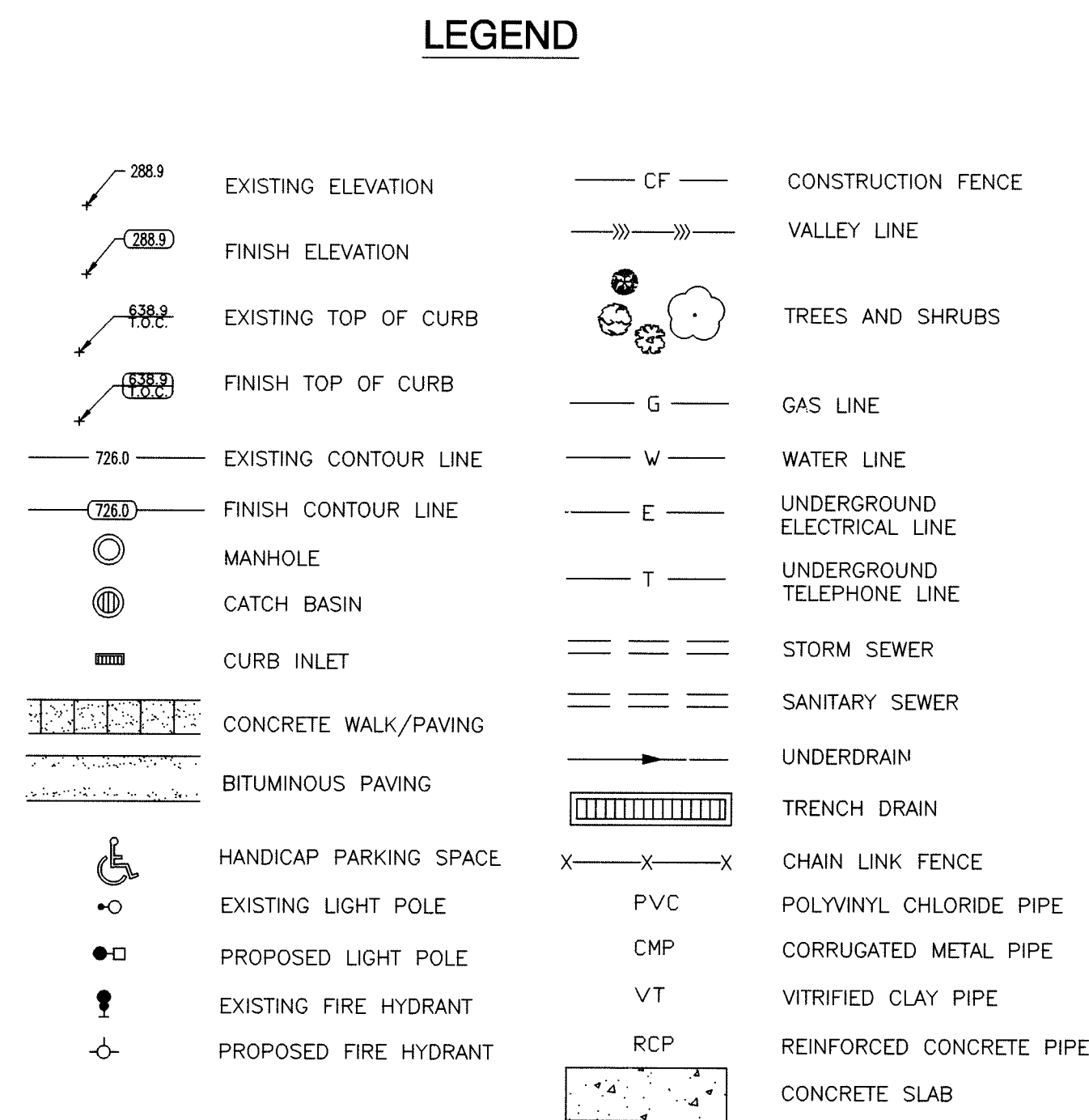
ADJUSTING RING DETAIL
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6
C-001



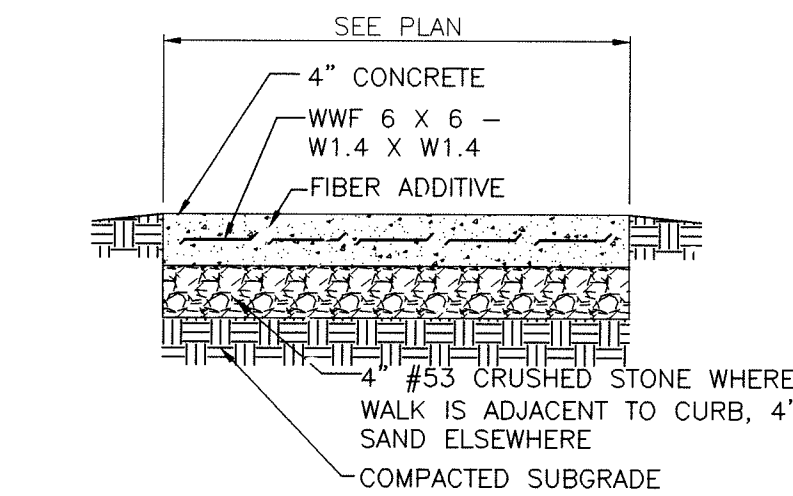
DRAINAGE STRUCTURE DETAIL
NOT TO SCALE

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C-001



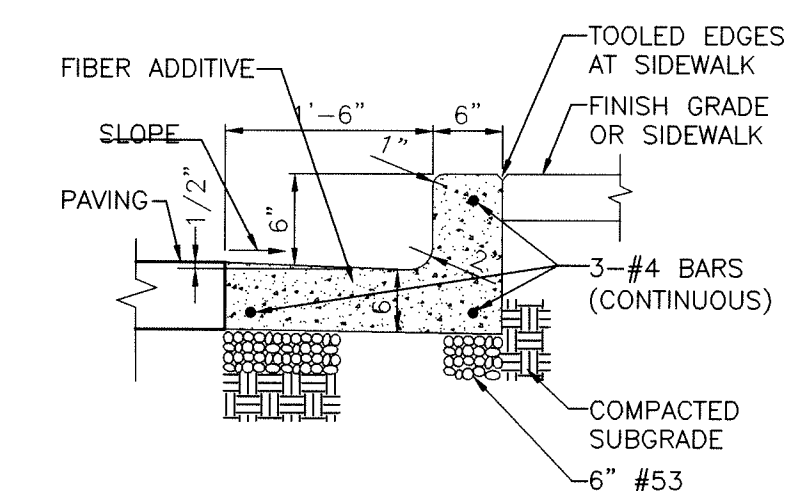
PAVEMENT DETAIL
HEAVY DUTY
NOT TO SCALE

1
C-001



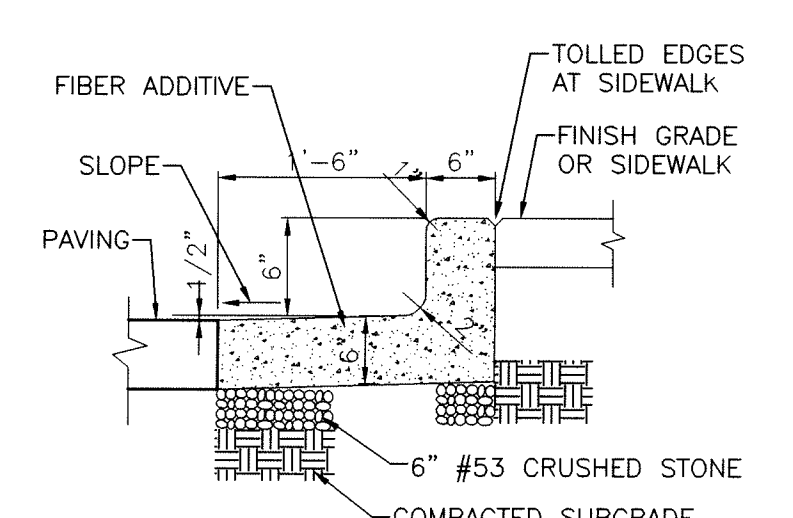
SIDEWALK DETAIL
NOT TO SCALE

2
C-001



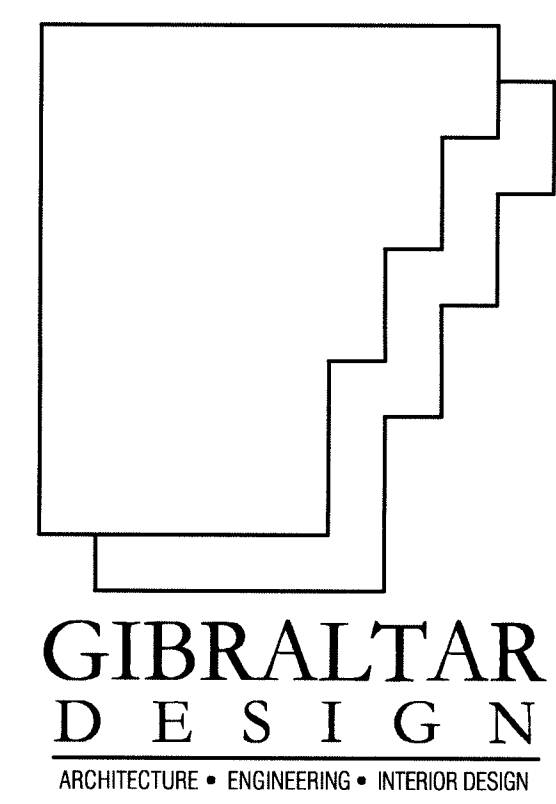
CHAIRBACK CURB
NOT TO SCALE

3
C-001



CHAIRBACK CURB
NOT TO SCALE

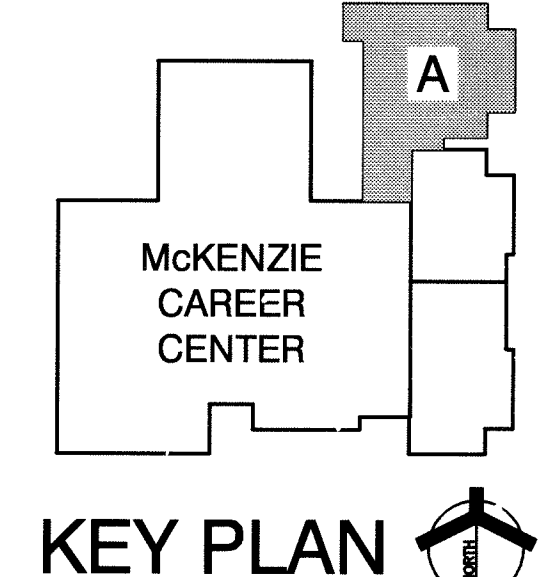
4
C-001



PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP
MARION COUNTY, INDIANA



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PROJECT 02-580
DATE 04/21/03
COORDINATED BY RRS
DRAWN BY KST/DLH
CHECKED BY RRS



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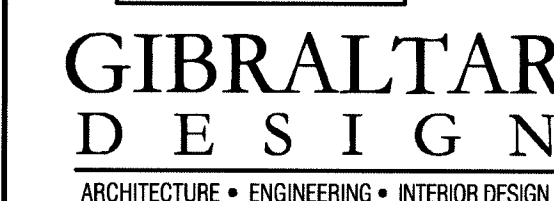
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DRAWING
CIVIL
DETAILS

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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N C-001

C-002



LAWRENCE
CENTRALIZED
KINDERGARTEN

MARION COUNTY, INDIANA

1. CONTRACTOR IS TO VERIFY ELEVATIONS AND NOTIFY ENGINEER OF ANY VARIANCES.
2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF UTILITIES.
3. CONTRACTOR IS TO VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

- 1 REMOVE SIDEWALK.
- 2 REMOVE PAVEMENT.
- 3 REMOVE CURB AND GUTTER.
- 4 CURB AND GUTTER REMOVAL LIMIT.
- 5 SIDEWALK REMOVAL LIMIT.
- 6 REMOVE GATE.
- 7 REMOVE STORM MANHOLE.
- 8 REMOVE STORM SEWER.
- 9 REMOVE CONCRETE BUMP.
- 10 REMOVE STORAGE SHED.
- 11 PLUG CATCH BASIN WHERE STORM SEWER WAS REMOVED
- 12 REMOVE FENCE.
- 13 REMOVE LIGHT POLE. SEE ELECTRICAL DRAWINGS.
- 14 REMOVE RAILINGS.
- 15 PAVEMENT REMOVAL LIMIT.
- 16 REMOVE PARKING STRIPES.
- 17 STORM SEWER REMOVAL LIMIT.
- 18 SEE PLUMBING DRAWINGS.
- 19 SEE ELECTRICAL DRAWINGS.

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Email info@GibraltarDesign.com
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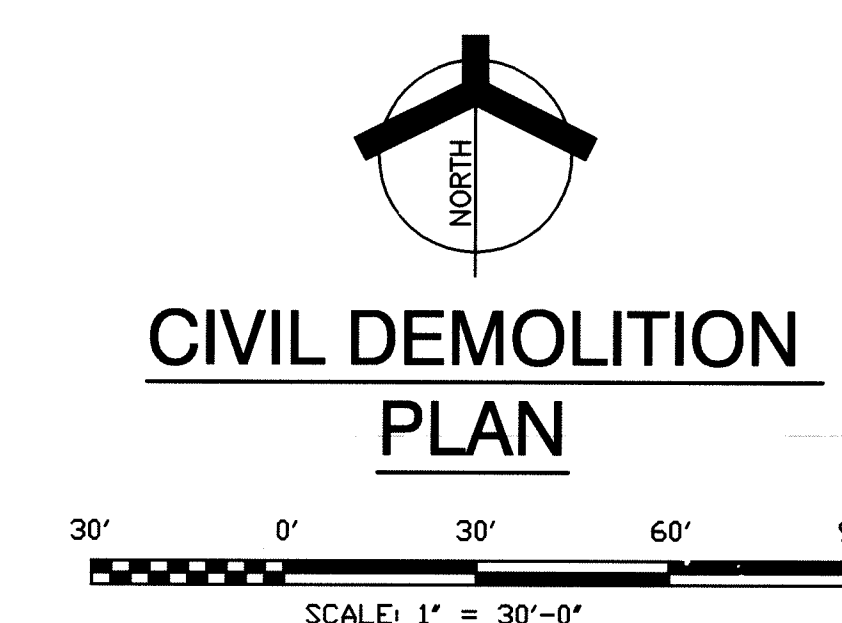
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PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

© GIBRALTAR DESIGN	SHEET
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N	CD101
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PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

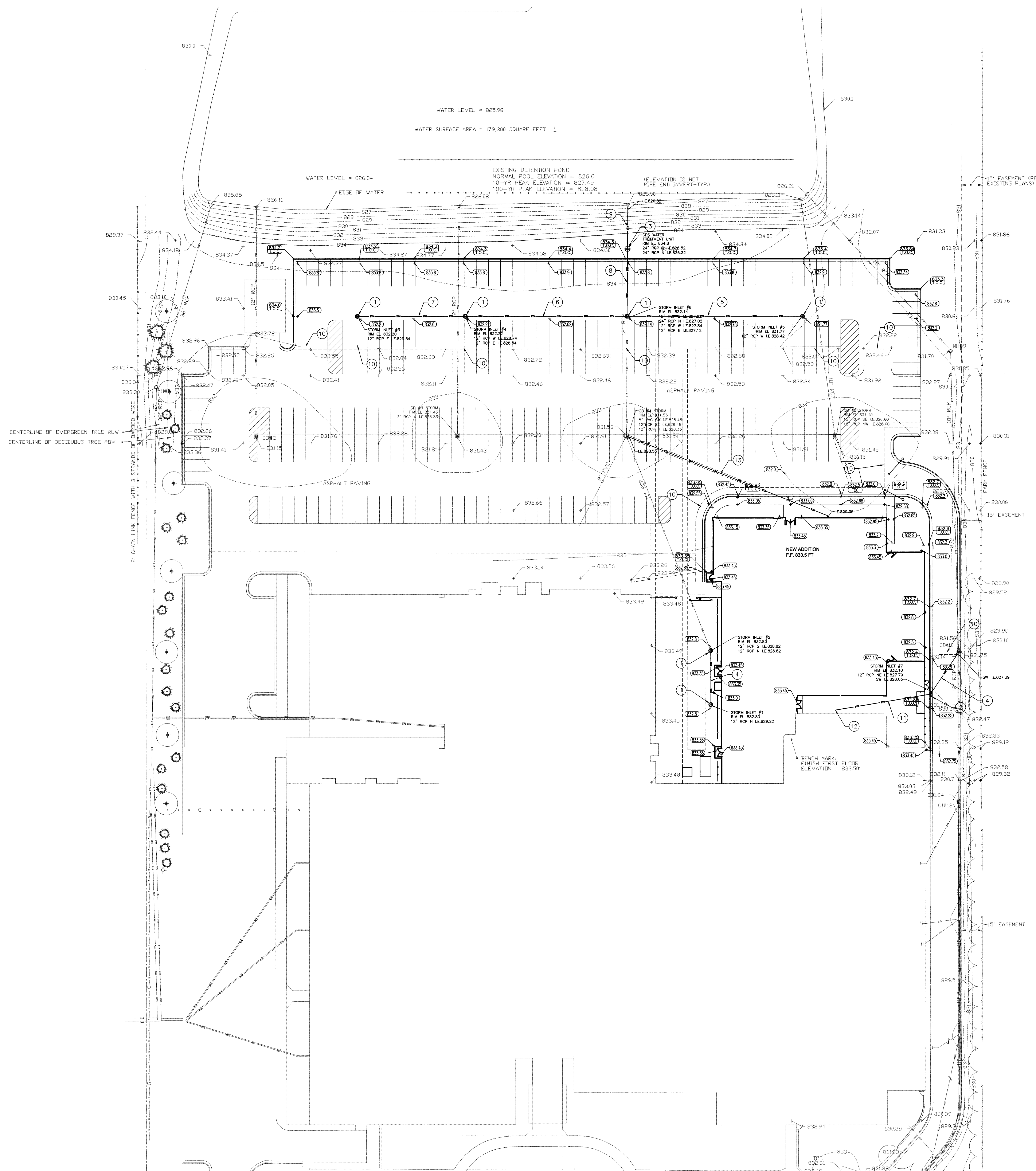
MARION COUNTY, INDIANA

GENERAL NOTES:

1. CONTRACTOR IS TO VERIFY ELEVATIONS AND NOTIFY ENGINEER OF ANY VARIANCES.
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3. CONTRACTOR IS TO VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

PLAN NOTES:

1. INSTALL CATCH BASIN WITH CASTING R-2535. SEE DETAIL.
2. INSTALL CURB INLET WITH CASTING R-3170. SEE DETAIL.
3. INSTALL WATER QUALITY TREATMENT UNIT. SEE DETAIL.
4. INSTALL 40' OF 12" RCP @1% SLOPE.
5. INSTALL 130' OF 12" RCP @1% SLOPE.
6. INSTALL 120' OF 12" RCP @1% SLOPE.
7. INSTALL 80' OF 12" RCP @1% SLOPE.
8. INSTALL 50' OF 24" RCP @1% SLOPE.
9. INSTALL 30' OF 24" RCP @1% SLOPE.
10. MATCH EXISTING GRADE.
11. INSTALL 73' OF 8" SDR35 PVC @0.5% SLOPE.
12. CONTRACTOR TO VERIFY INVERT ELEVATION AND MAKE CONNECTION TO EXISTING BUILDING.
13. INSTALL 160' OF 12" RCP @0.5% SLOPE.

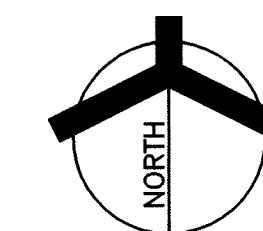


CIVIL GRADING PLAN

30' 0' 30' 60' 90'
SCALE: 1" = 30'-0"

Call Monday through Friday 7 AM to 6 PM
Call 1-800-455-6644
Call 1-800-455-6600
2 Working Days
Before You Dig
SEAN UNDERGROUND PROTECTION SERVICE, INC.

"IT'S THE LAW"
PER INDIANA STATE LAW (I.C. 36-32-10-1), IT IS
MANDATORY THAT YOU OBTAIN A UTILITY LOCATING
NOTIFYING THE UNDERGROUND LOCATION SERVICE
TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



GIBALTAR DESIGN

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Phone: 317.580.5777 Fax: 317.580.5778

PROJECT
02-580

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DRAWING
CIVIL
GRADING PLAN

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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PROJECT

LAWRENCE
CENTRALIZED
KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP


MARION COUNTY, INDIANA

TEMPORARY SEEDING SCHEDULE			
KIND OF SEED	RATES PER :		REMARKS
	1000 SQ. FT.	ACRE	
WHEAT OR RYE	3.5 LBS.	2 BU.	COVER SEED TO 1 1/2" D
SPRING DATS	2.3 LBS.	3 BU.	COVER SEED TO 1" DEEP
ANNUAL RYEGRASS	1 LBS.	40 LBS.	COVER SEED TO 1/4" DEE

* NOT NECESSARY WHERE MULCH IS APPLIED.

[illegible]

PERMANENT SEEDING DATES											
NON-IRRIGATED *											
IRRIGATED											
DORMANT SEEDING **											

 IRRIGATION NEEDED DURING THIS PERIOD TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS. USE MULCH.

- * LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS.
- ** INCREASE SEEDING APPLICATION BY 50%.

GENERAL NOTES:

1. ALL DISTURBED AREA ARE TO BE SEEDED AND MULCHED
2. PERMANENT SEEDING:
 - <40% DWARF KENTUCKY BLUEGRASS (TWO IMPROVED VARIETIES
 - 20% FIESTA RYEGRASS
 - 20% PENNLAWN RED FESCUE
 - 20% CREEPING RED FESCUE
 - SEED AT 5 POUNDS/1000 SQUARE FEET

PLAN NOTES:

- ① AREA TO BE SEEDED AND MULCHED.
- ② INSTALL SILT SCREEN FABRIC. SEE DETAIL _____ ②
C-100
- ③ AREA TO BE SODDED.

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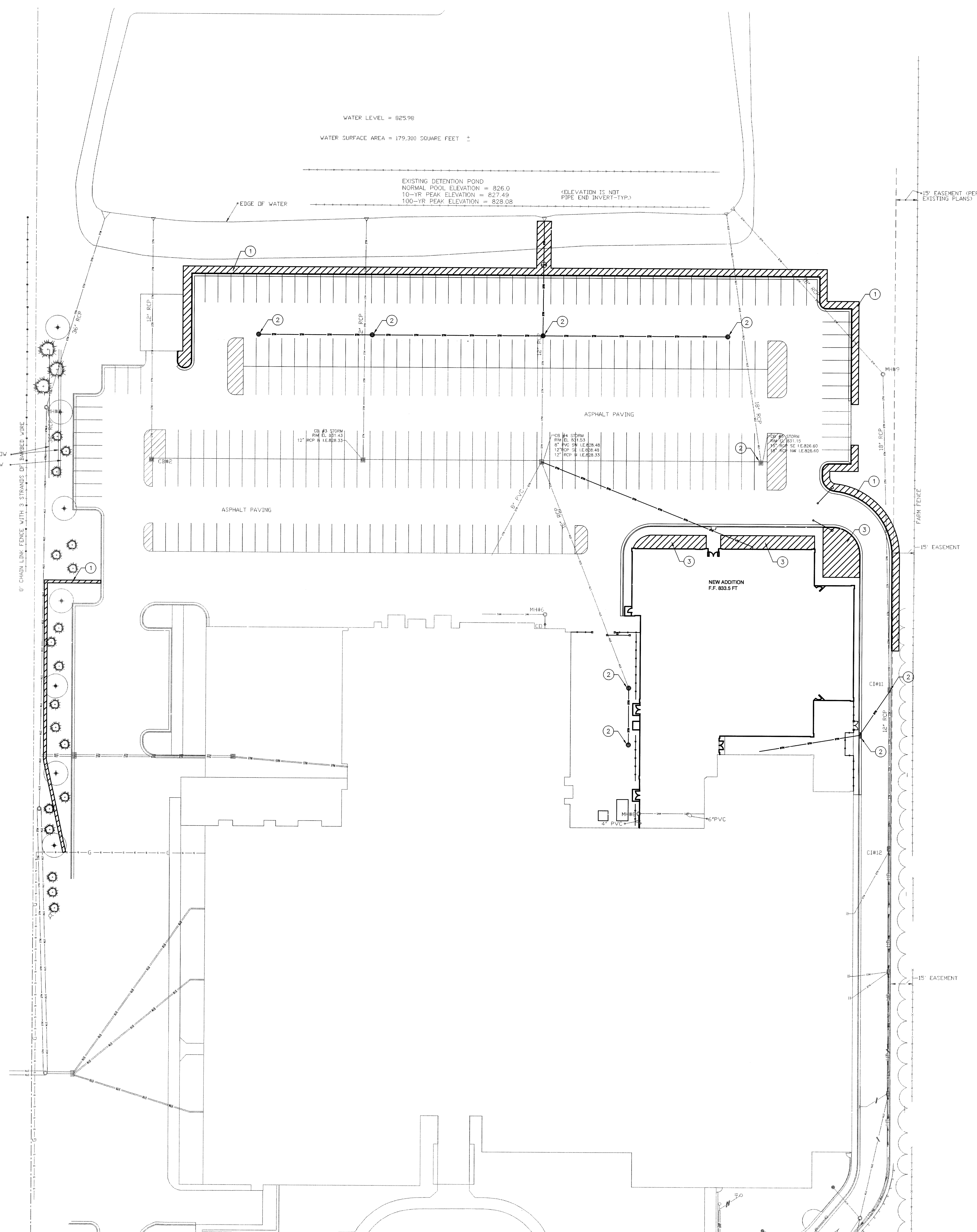
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CIVIL
EROSION CONTROL PLAN

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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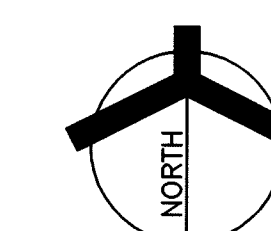
Call Monday through Friday—7 AM to 6 PM
toll free
Call 1-800-382-5544
Outside Indiana
Call 1-800-428-5200

**2 Working Days
Before You Dig.**

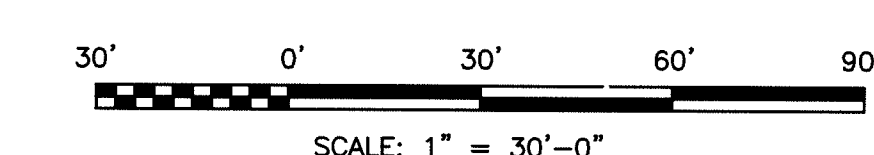
INDIANA UNWEARABLE PROTECTION SERVICE, INC.

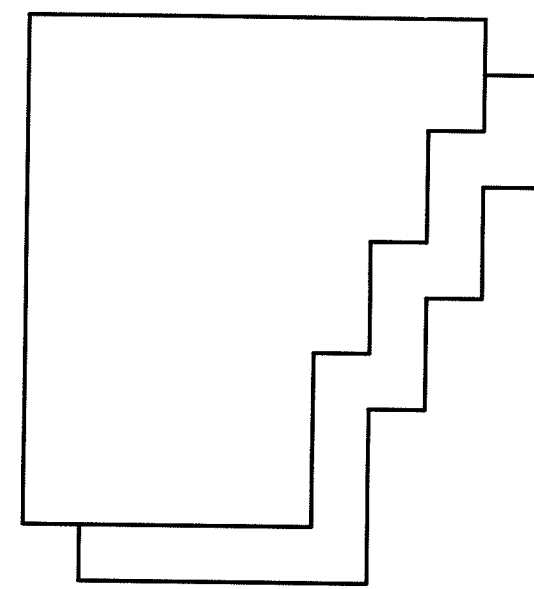


"IT'S THE LAW"
PER INDIANA STATE LAW IS-69-1991, IT IS
AGAINST THE LAW TO EXCAVATE WITHOUT
NOTIFYING THE UNDERGROUND LOCATION SERVICE
TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



CIVIL EROSION CONROL PLAN





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PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

GENERAL NOTES:

1. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF UTILITIES.
2. CONTRACTOR IS TO VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. ALL GUTTERS TO BE INSTALLED ARE 1.5' IN WIDTH.

PLAN NOTES:

1. INSTALL SIDEWALK. SEE DETAIL
2. INSTALL PAVEMENT. SEE DETAIL
3. INSTALL CURB AND GUTTER. SEE DETAIL
4. CURB AND GUTTER LIMIT.
5. INSTALL 2 - 3' GATE.
6. INSTALL 16' SLIDING GATE. SEE ELECTRICAL DRAWINGS
7. INSTALL SECURITY GATE.
8. INSTALL STOOP. SEE DETAIL
9. INSTALL PLAYGROUND MAT.
10. INSTALL 10' CHAIN LINK FENCE.
11. INSTALL PARKING STRIPES.
12. CURB LIMIT.
13. PAVEMENT INSTALLATION LIMIT.
14. SIDEWALK INSTALLATION LIMIT.
15. INSTALL GUARD RAIL. SEE DETAIL
16. INSTALL HANDICAP RAMP. SEE DETAIL
17. REPAIR PAVEMENT. SEE DETAIL
18. INSTALL GENERATOR PAD. SEE DETAIL
19. INSTALL TRANSFORMER PAD. SEE DETAIL
20. INSTALL 10' CHAIN LINK FENCE WITH 3' BARB WIRE.
21. INSTALL CURB AND GUTTER. SEE DETAIL

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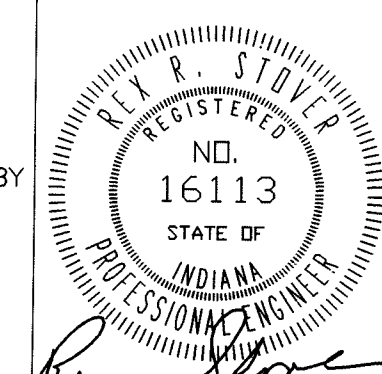
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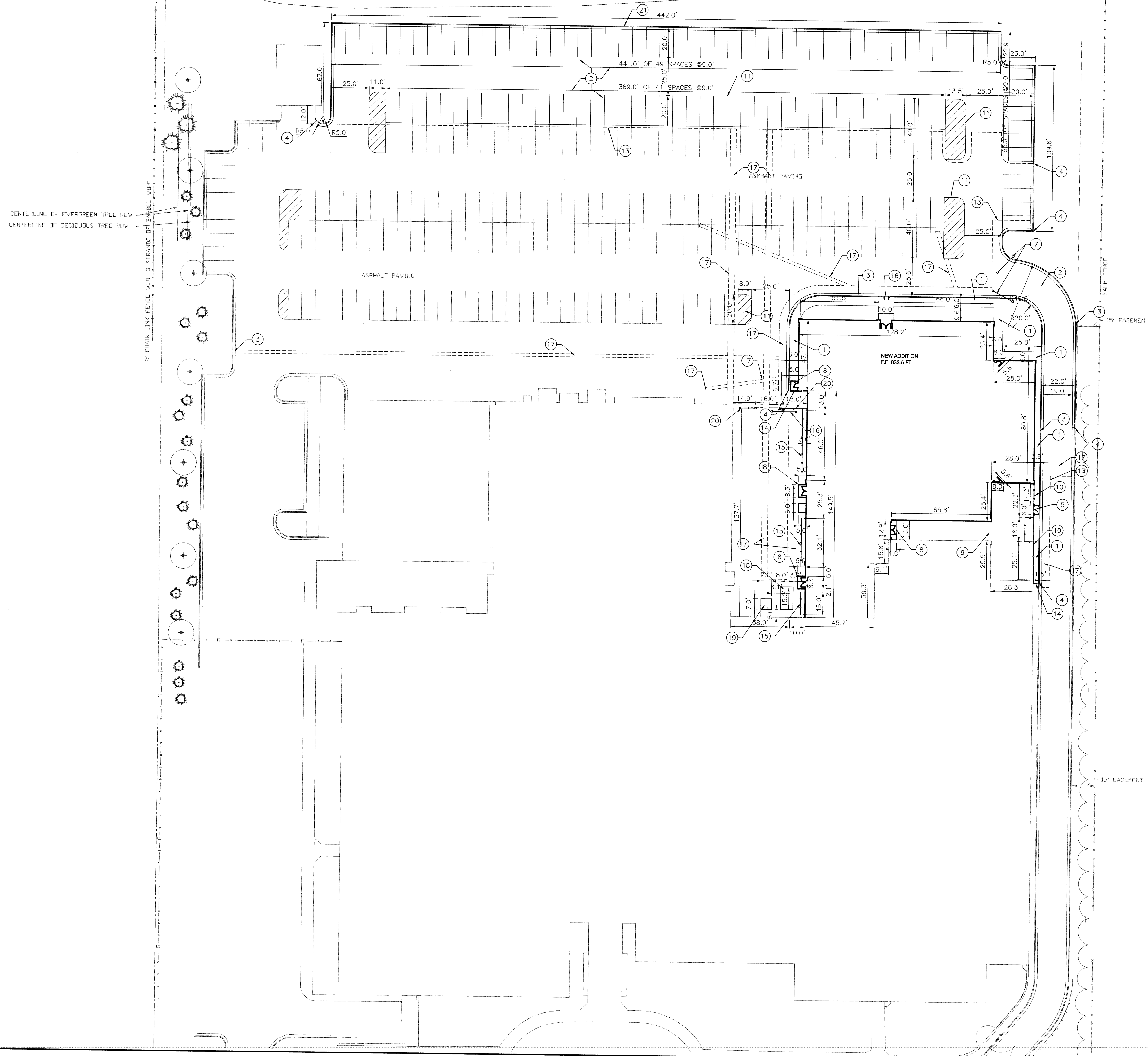
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LAYOUT PLAN

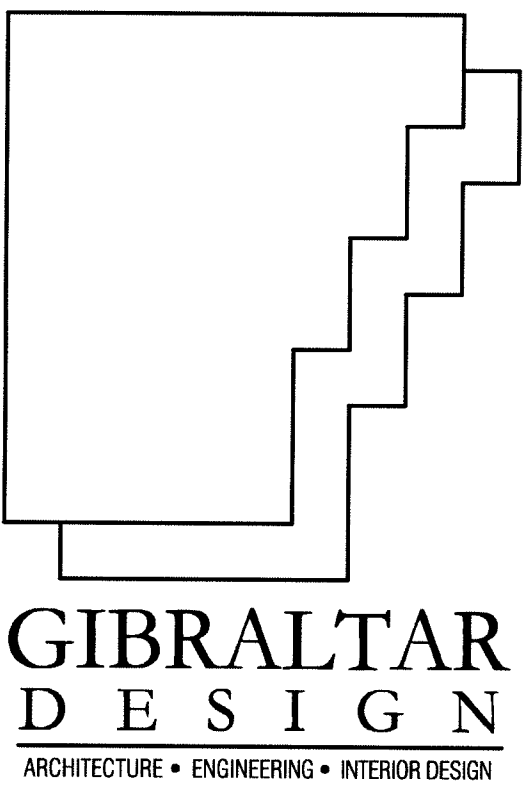
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NORTH & SOUTH CAMPUS ADDITIONS

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PROJECT

LAWRENCE
CENTRALIZED
KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

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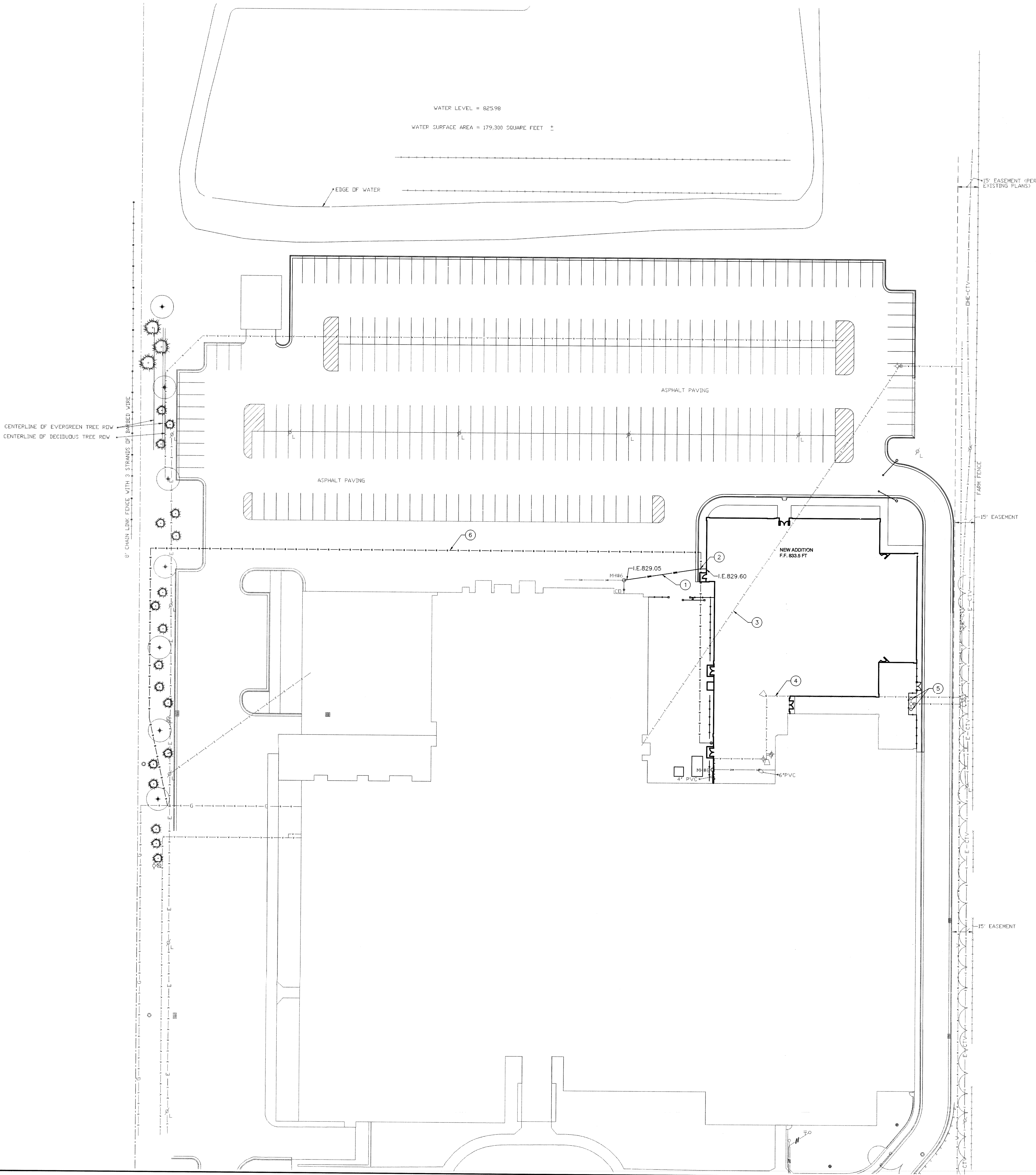
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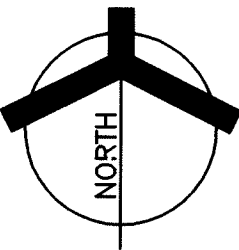


GENERAL NOTES:

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2. CONTRACTOR IS TO VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. CONTRACTOR IS TO COORDINATE THE RELOCATION OF UTILITIES WITH THE APPROPRIATE UTILITY COMPANY.

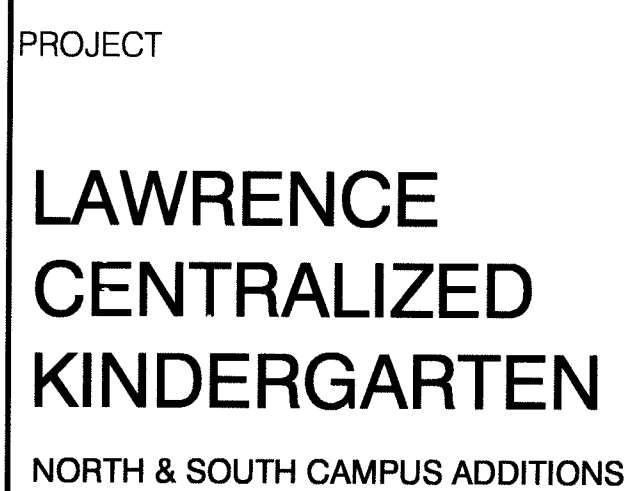
PLAN NOTES:

1. INSTALL 60' OF 4" SDR35 PVC @1% SLOPE.
2. INSTALL CLEAN OUT. SEE DETAIL.
3. SEE ELECTRICAL DRAWINGS.
4. SEE PLUMBING DRAWINGS.
5. INSTALL POST VALVE INDICATOR AND FIRE HOST CONNECTION. SEE PLUMBING DRAWINGS.
6. INSTALL GAS LINE. SEE PLUMBING DRAWINGS.



CIVIL UTILITY PLAN

30' 0' 30' 60' 90'
SCALE: 1" = 30'-0"



McKENZIE CAREER CENTER

A

KEY PLAN

PROJECT
02-580

DATE
04/21/03

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DRAWN BY
MLM

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REGISTERED
NO.
PE 19800200
STATE OF
INDIANA
PROFESSIONAL ENGINEER

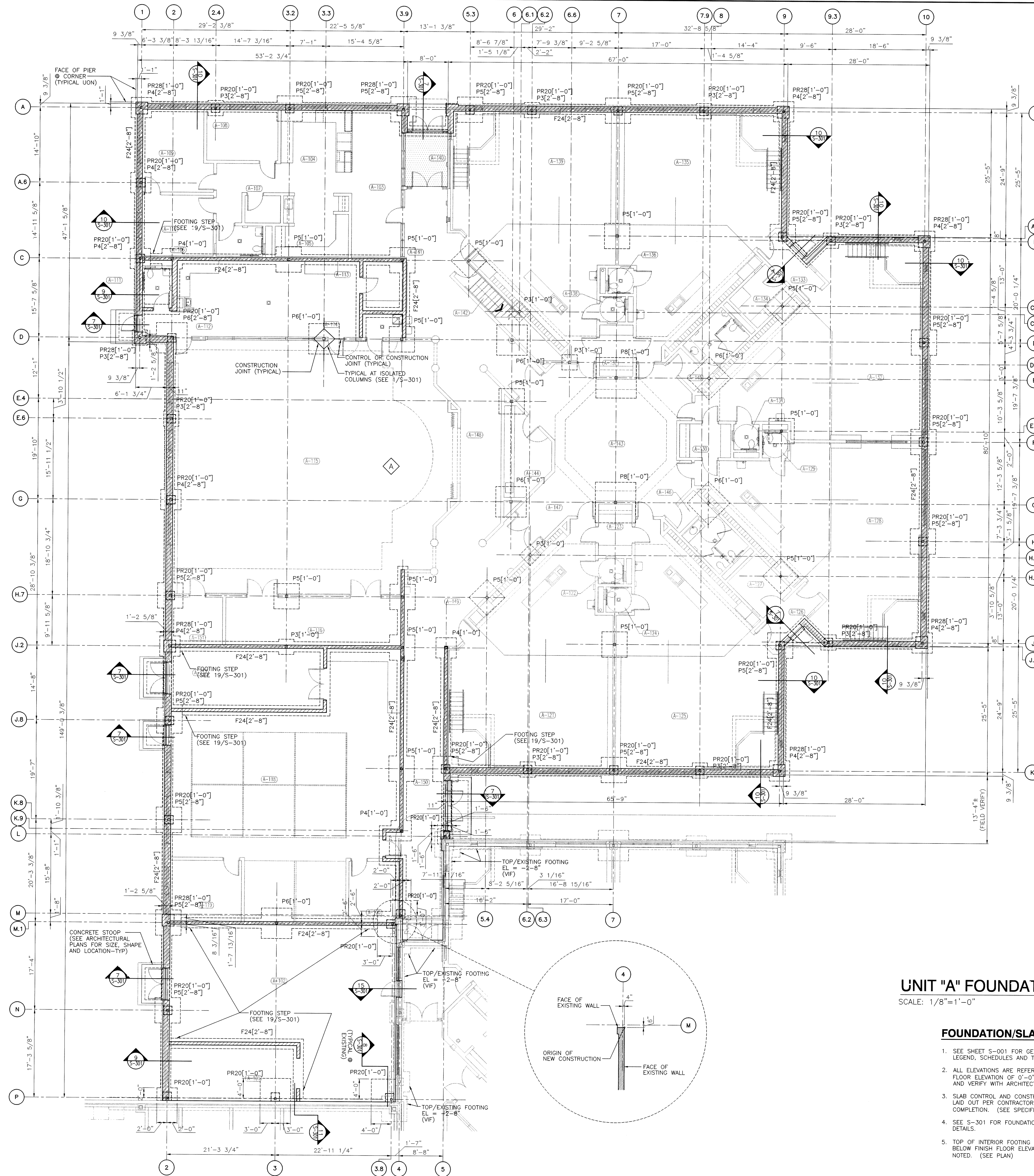
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PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

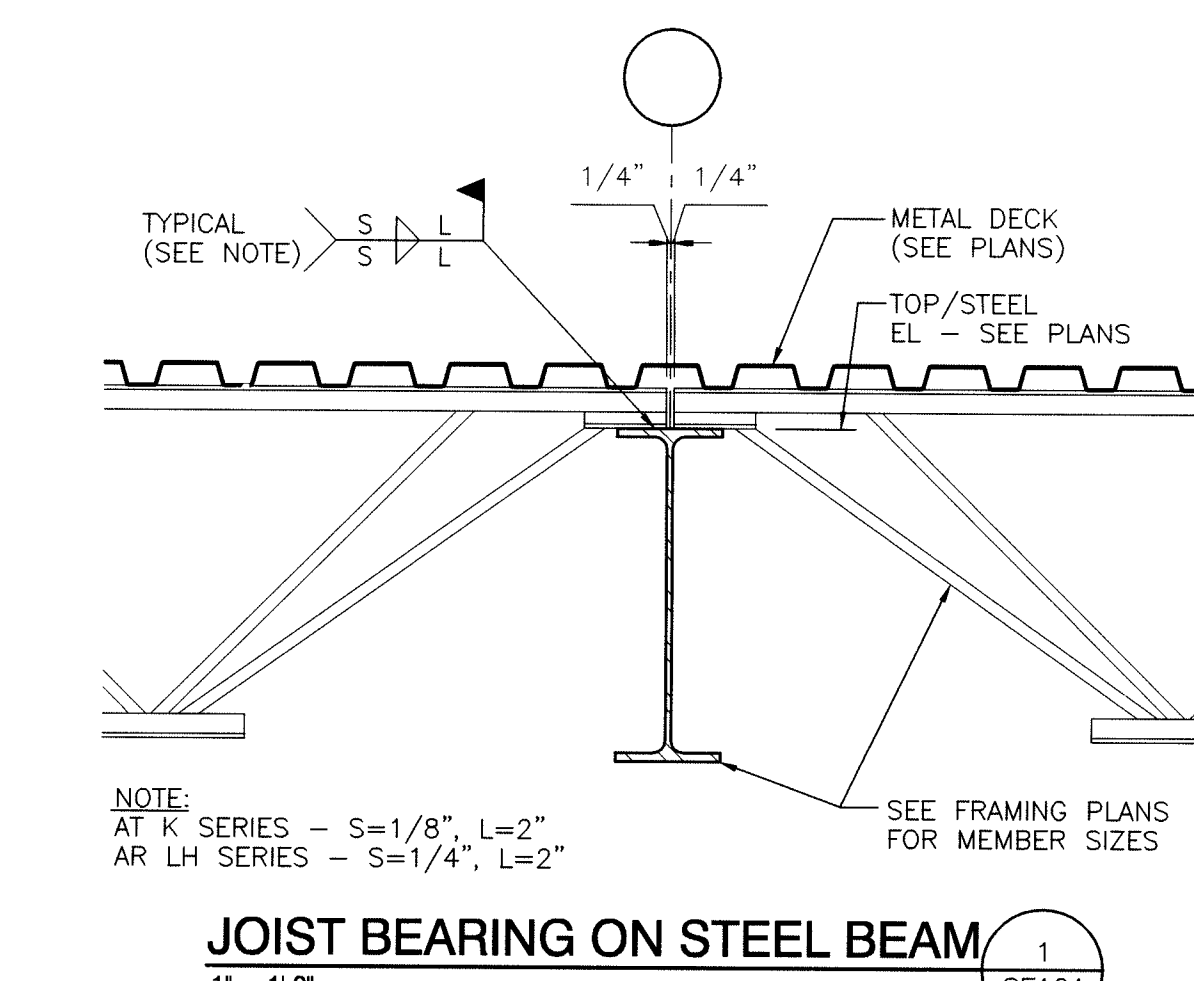
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UNIT "A" FOUNDATION/SLAB PLAN
SCALE: 1/8"=1'-0"

FOUNDATION/SLAB PLAN NOTES

1. SEE SHEET S-001 FOR GENERAL NOTES, STRUCTURAL LEGEND, SCHEDULES AND TYPICAL DETAILS.
2. ALL ELEVATIONS ARE REFERENCED FROM A FINISH FLOOR ELEVATION OF 0'-0" PER AREA. SEE PLAN AND VERIFY WITH ARCHITECTURAL FLOOR PLANS
3. SLAB CONTROL AND CONSTRUCTION JOINTS ARE TO BE LAID OUT PER CONTRACTOR PLANNED SEQUENCE OF COMPLETION. (SEE SPECIFICATION)
4. SEE S-301 FOR FOUNDATION AND SLAB DETAILS.
5. TOP OF INTERIOR FOOTING ARE TYPICALLY 1'-0" BELOW FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED. (SEE PLAN)

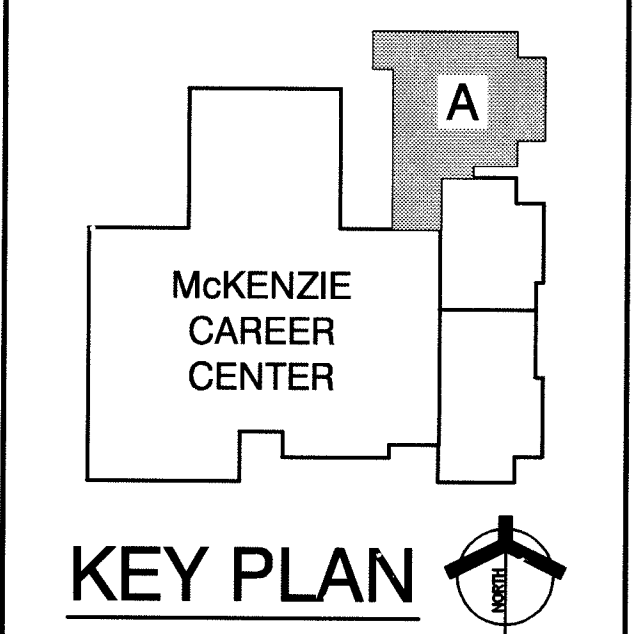


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PROJECT
**LAWRENCE
CENTRALIZED
KINDERGARTEN**
NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



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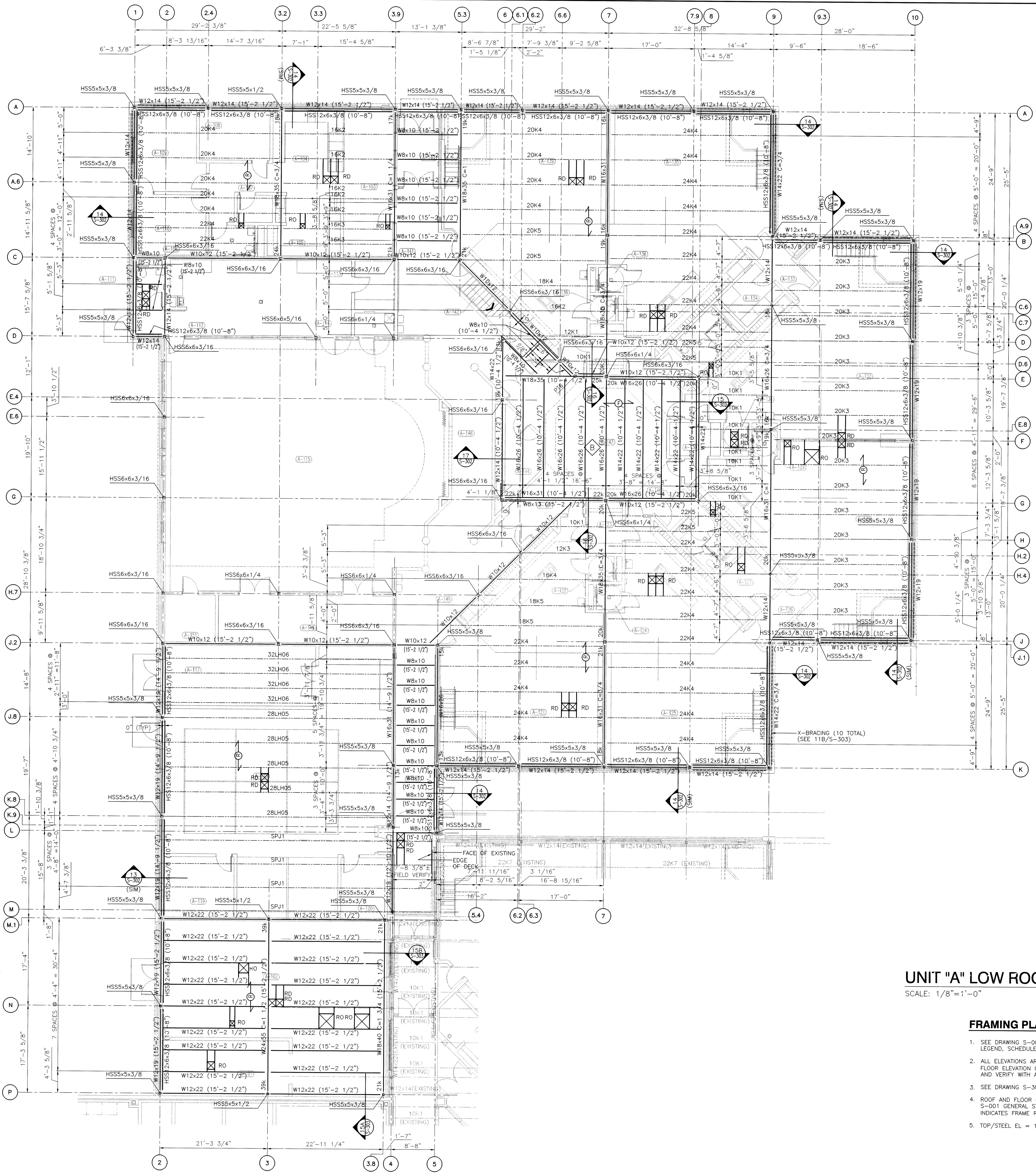
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DRAWING
**UNIT "A" LOW ROOF/
MEZZANINE FRAMING PLAN
(NORTH CAMPUS)**

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

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LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

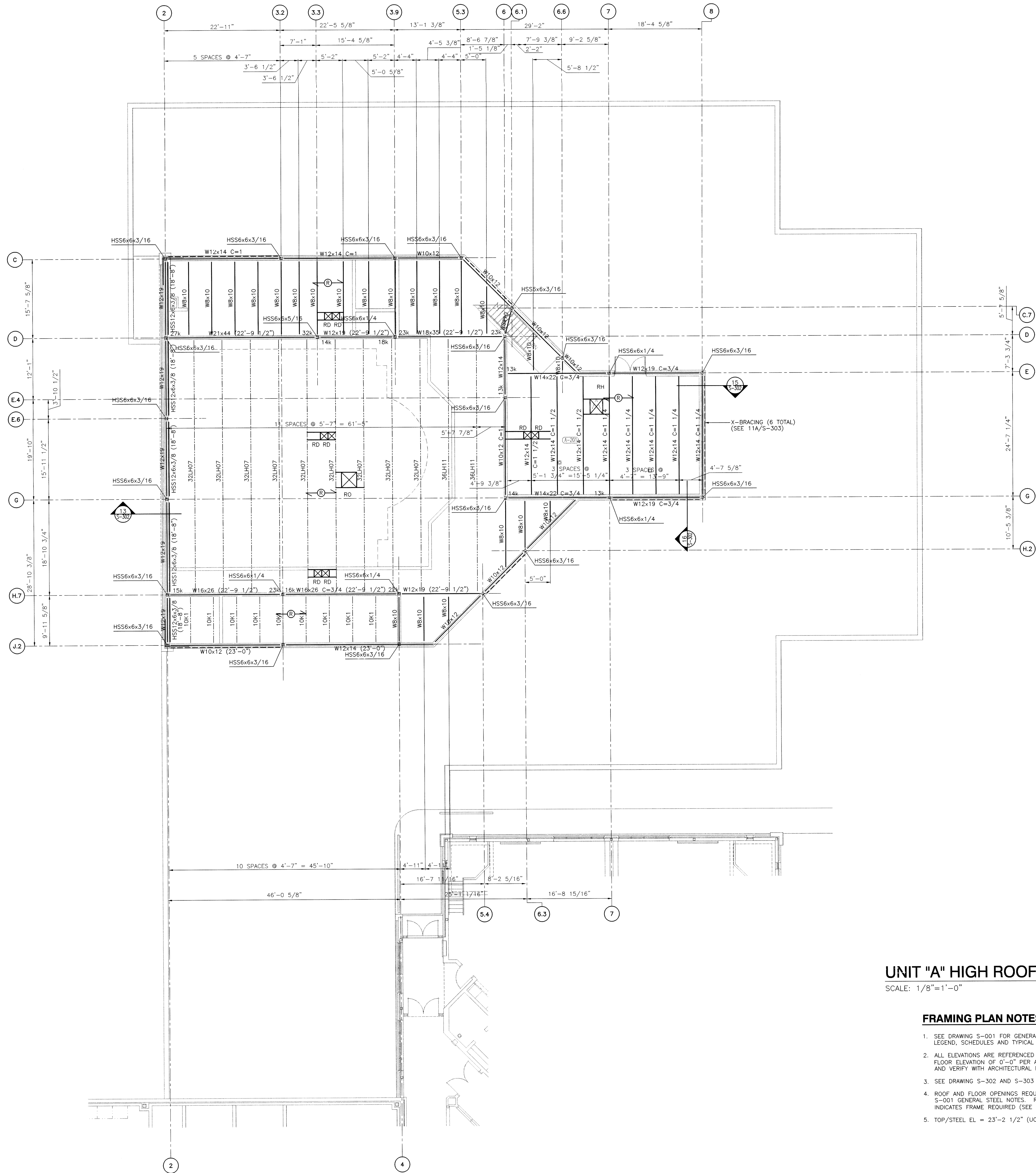
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UNIT "A" LOW ROOF/MEZZANINE FRAMING PLAN
SCALE: 1/8"=1'-0"

FRAMING PLAN NOTES

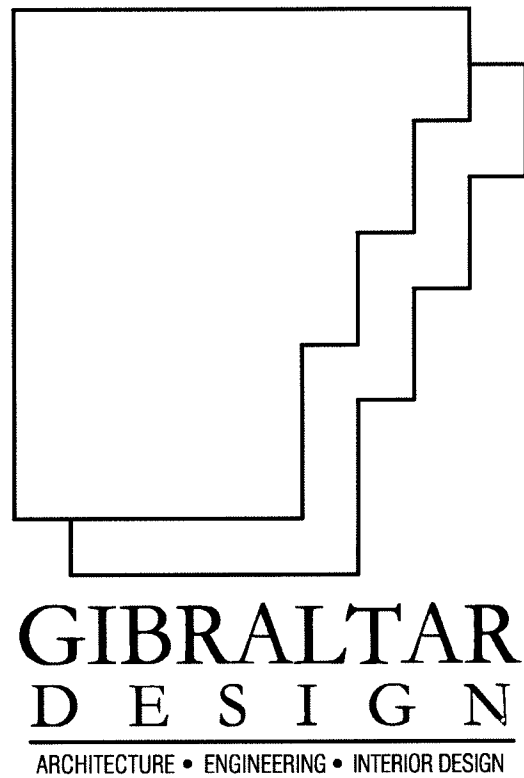
- SEE DRAWING S-001 FOR GENERAL NOTES, STRUCTURAL LEGEND, SCHEDULES AND TYPICAL DETAILS.
- ALL ELEVATIONS ARE REFERENCED FROM A FINISH FLOOR ELEVATION OF 0'-0" PER AREA. SEE PLAN AND VERIFY WITH ARCHITECTURAL FLOOR PLANS.
- SEE DRAWING S-302 AND S-303 FOR STEEL FRAMING DETAILS.
- ROOF AND FLOOR OPENINGS REQUIRED FRAMES. SEE S-001 GENERAL STEEL NOTES. RD, RV, RH AND FO INDICATES FRAME REQUIRED (SEE PLAN).
- TOP/STEEL EL = 15'-0" (UON)



UNIT "A" HIGH ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

FRAMING PLAN NOTES

- SEE DRAWING S-001 FOR GENERAL NOTES, STRUCTURAL LEGEND, SCHEDULES AND TYPICAL DETAILS.
- ALL ELEVATIONS ARE REFERENCED FROM A FINISH FLOOR ELEVATION OF 0'-0" PER AREA. SEE PLAN AND VERIFY WITH ARCHITECTURAL FLOOR PLANS.
- SEE DRAWING S-302 AND S-303 FOR STEEL FRAMING DETAILS.
- ROOF AND FLOOR OPENINGS REQUIRED FRAMES. SEE S-001 GENERAL STEEL NOTES. RD, RV, RH AND FO INDICATES FRAME REQUIRED (SEE PLAN).
- TOP/STEEL EL = 23'-2 1/2" (UON)



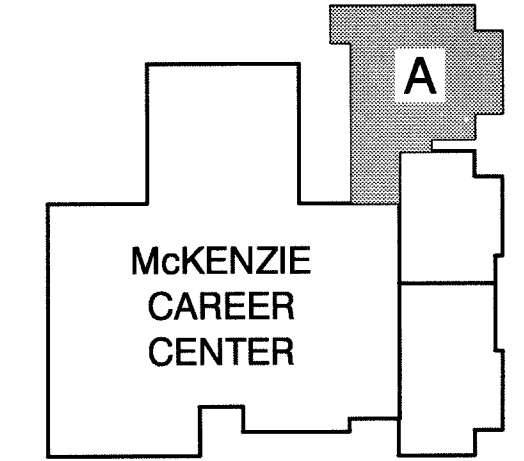
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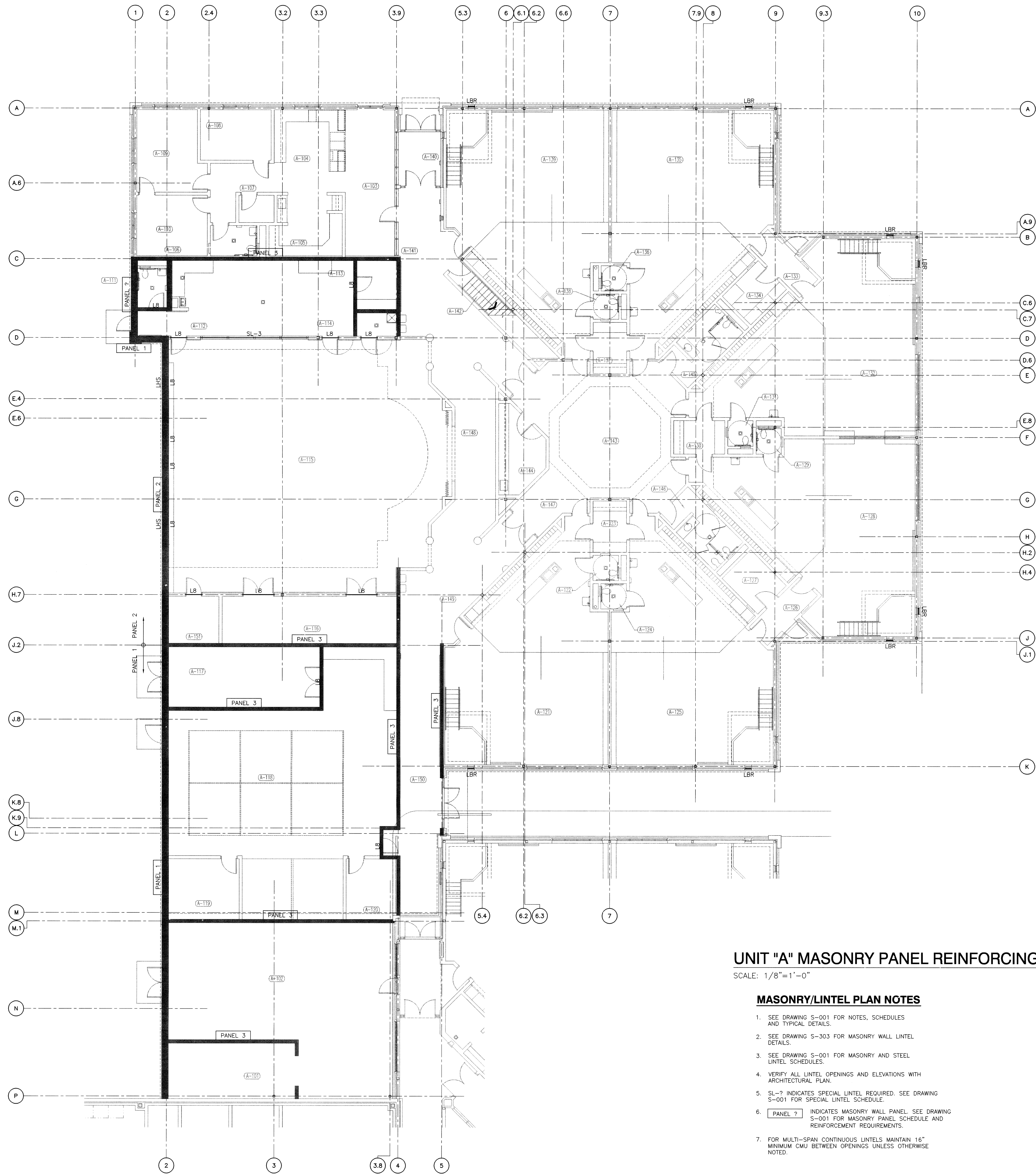


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DRAWING
UNIT "A"
HIGH ROOF FRAMING PLAN
(NORTH CAMPUS)

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

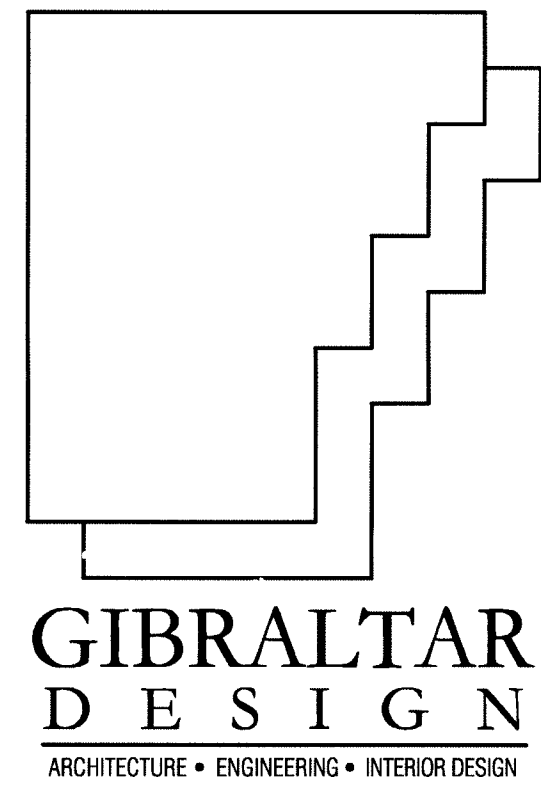


UNIT "A" MASONRY PANEL REINFORCING/LINTEL PLAN

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

MASONRY/LINTEL PLAN NOTES

- SEE DRAWING S-001 FOR NOTES, SCHEDULES AND TYPICAL DETAILS.
- SEE DRAWING S-303 FOR MASONRY WALL LINTEL DETAILS.
- SEE DRAWING S-001 FOR MASONRY AND STEEL LINTEL SCHEDULES.
- VERIFY ALL LINTEL OPENINGS AND ELEVATIONS WITH ARCHITECTURAL PLAN.
- SL-? INDICATES SPECIAL LINTEL REQUIRED. SEE DRAWING S-001 FOR SPECIAL LINTEL SCHEDULE.
- PANEL ? INDICATES MASONRY WALL PANEL. SEE DRAWING S-001 FOR MASONRY PANEL SCHEDULE AND REINFORCEMENT REQUIREMENTS.
- FOR MULTI-SPAN CONTINUOUS UNITS MAINTAIN 16" MINIMUM CMU BETWEEN OPENINGS UNLESS OTHERWISE NOTED.



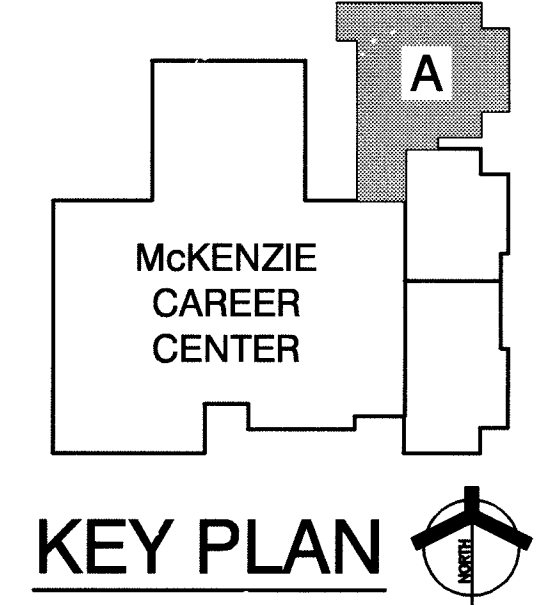
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DRAWING
UNIT "A"
MASONRY PANEL
REINFORCING/LINTEL PLAN
(NORTH CAMPUS)

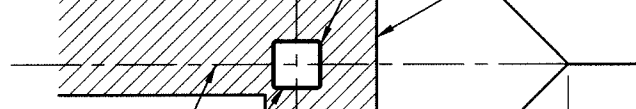
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NORTH CAMPUS

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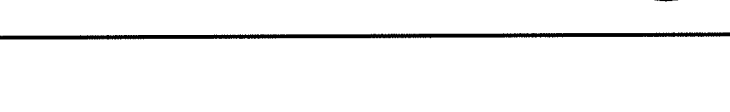
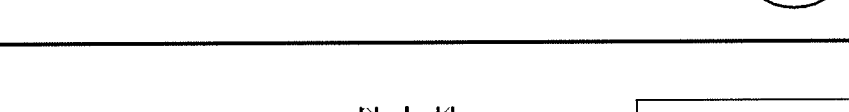
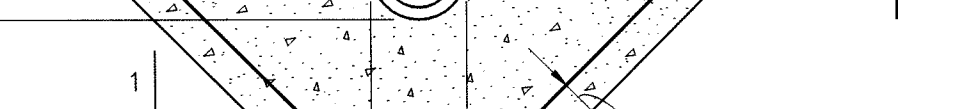
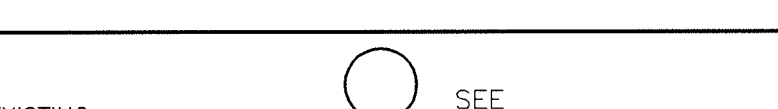
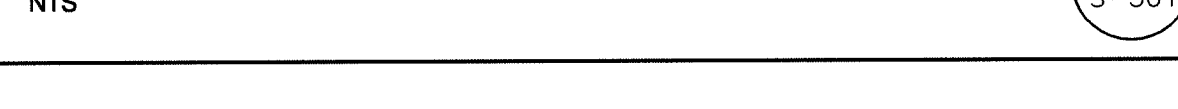
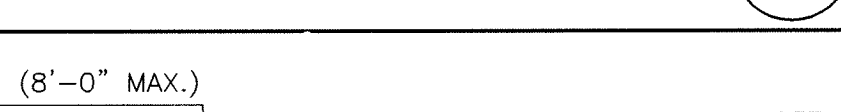
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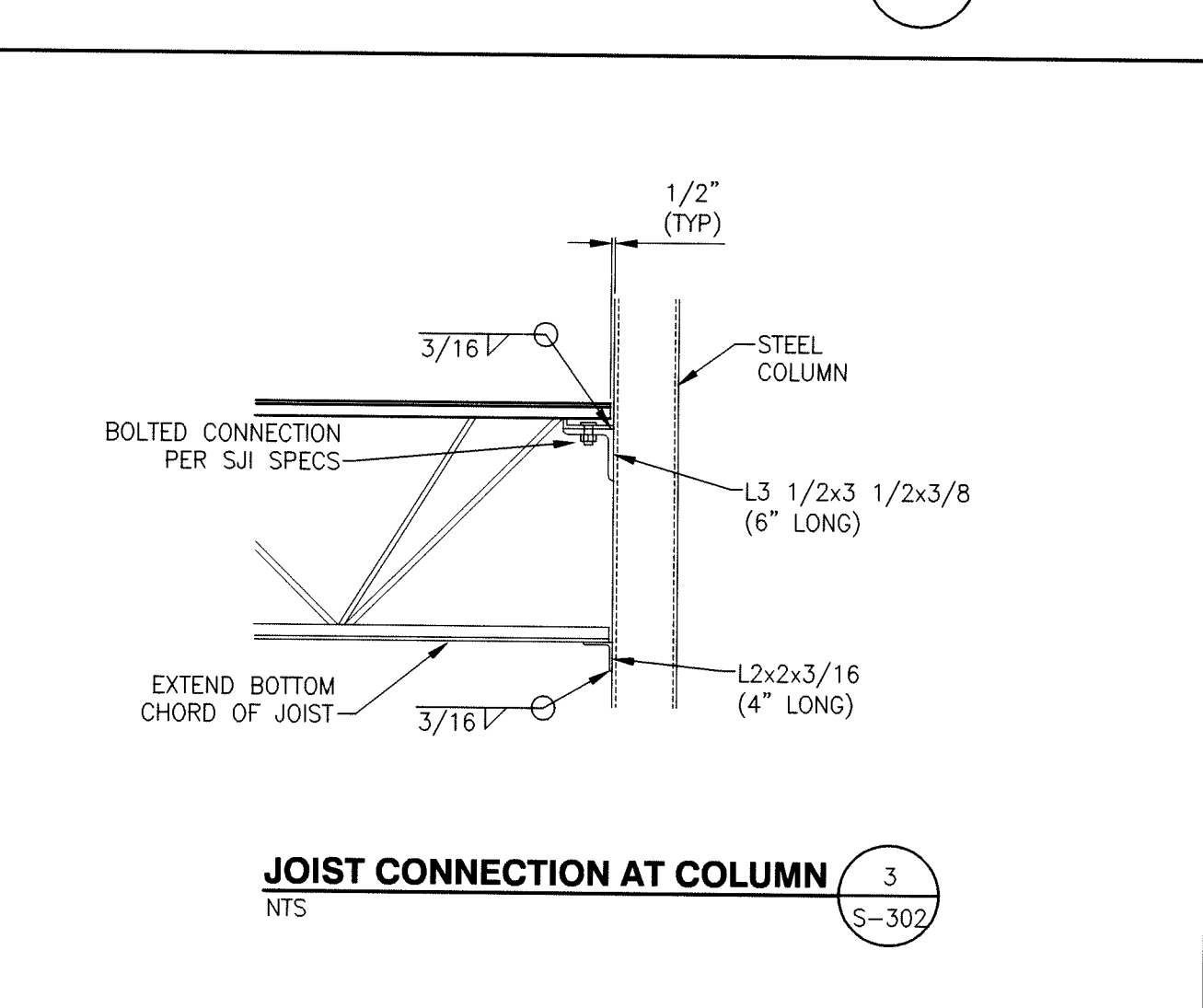
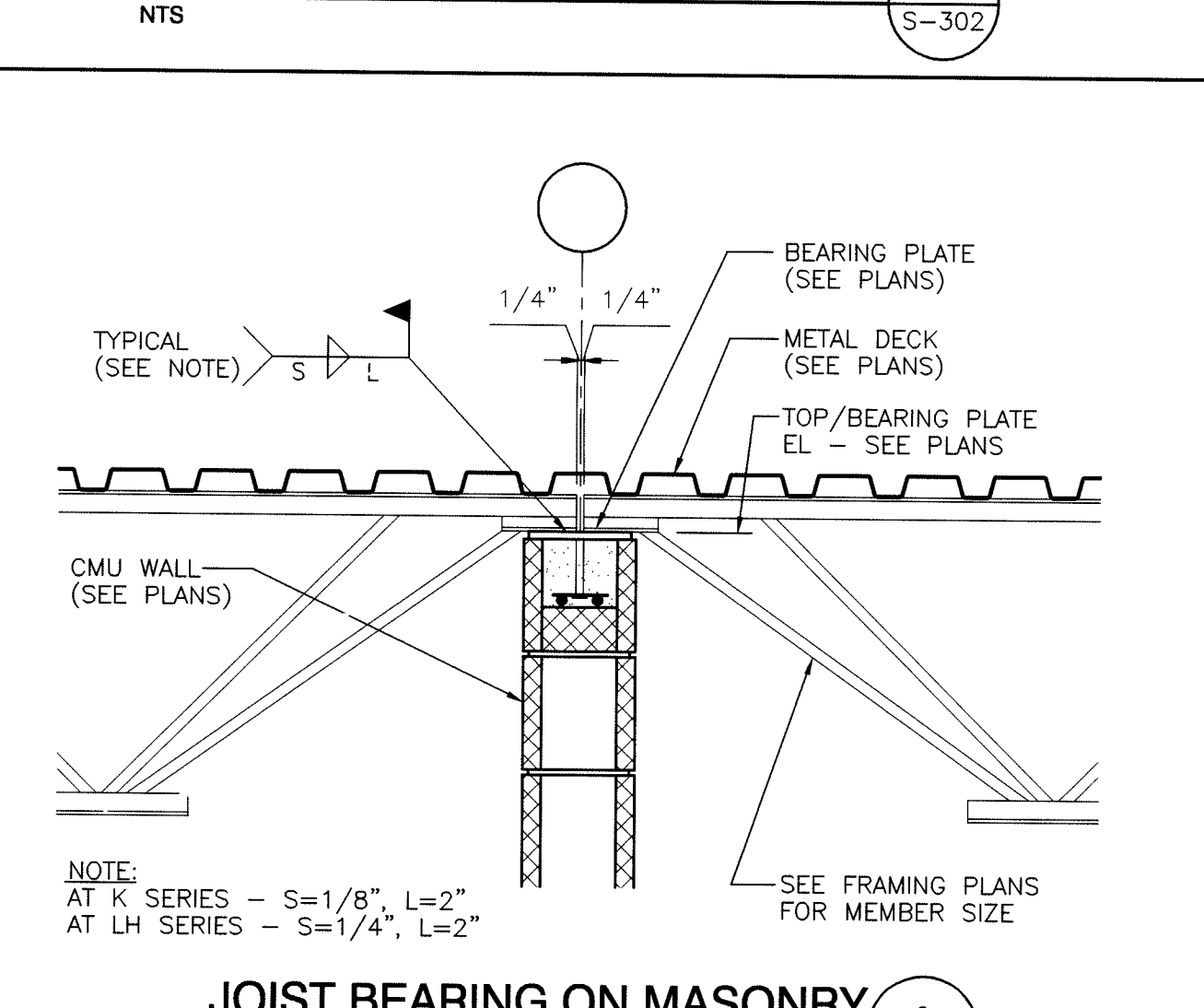
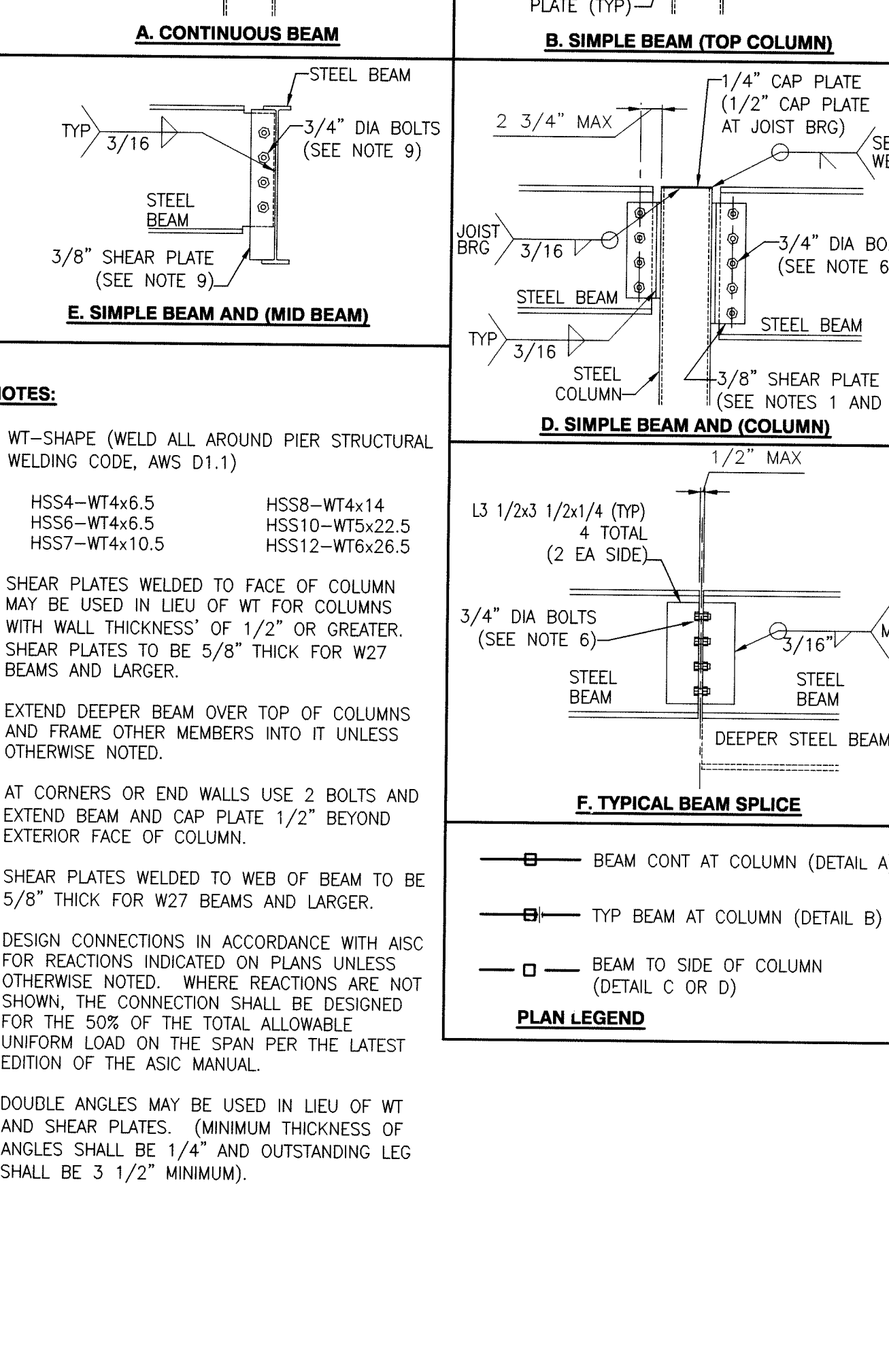
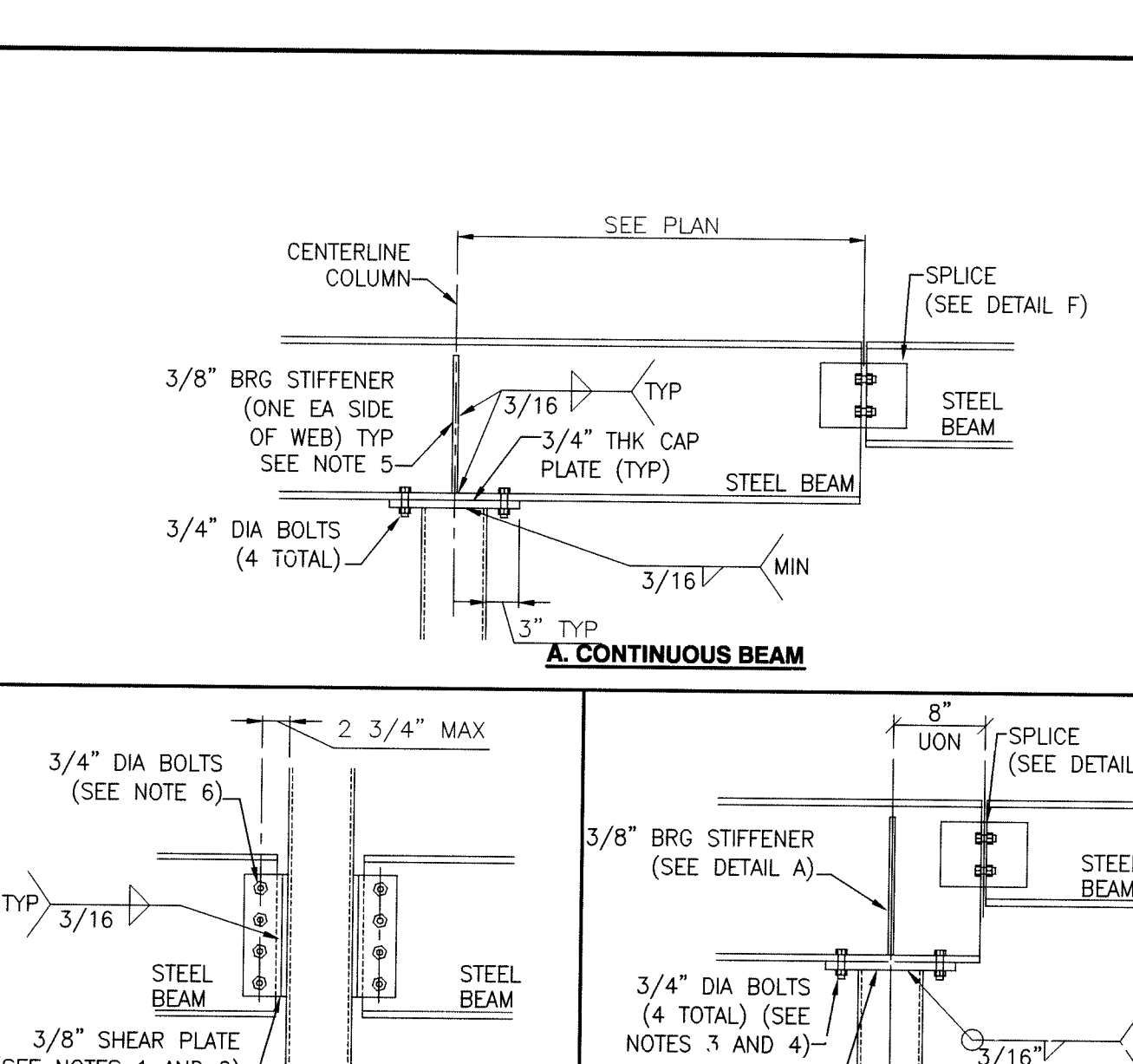
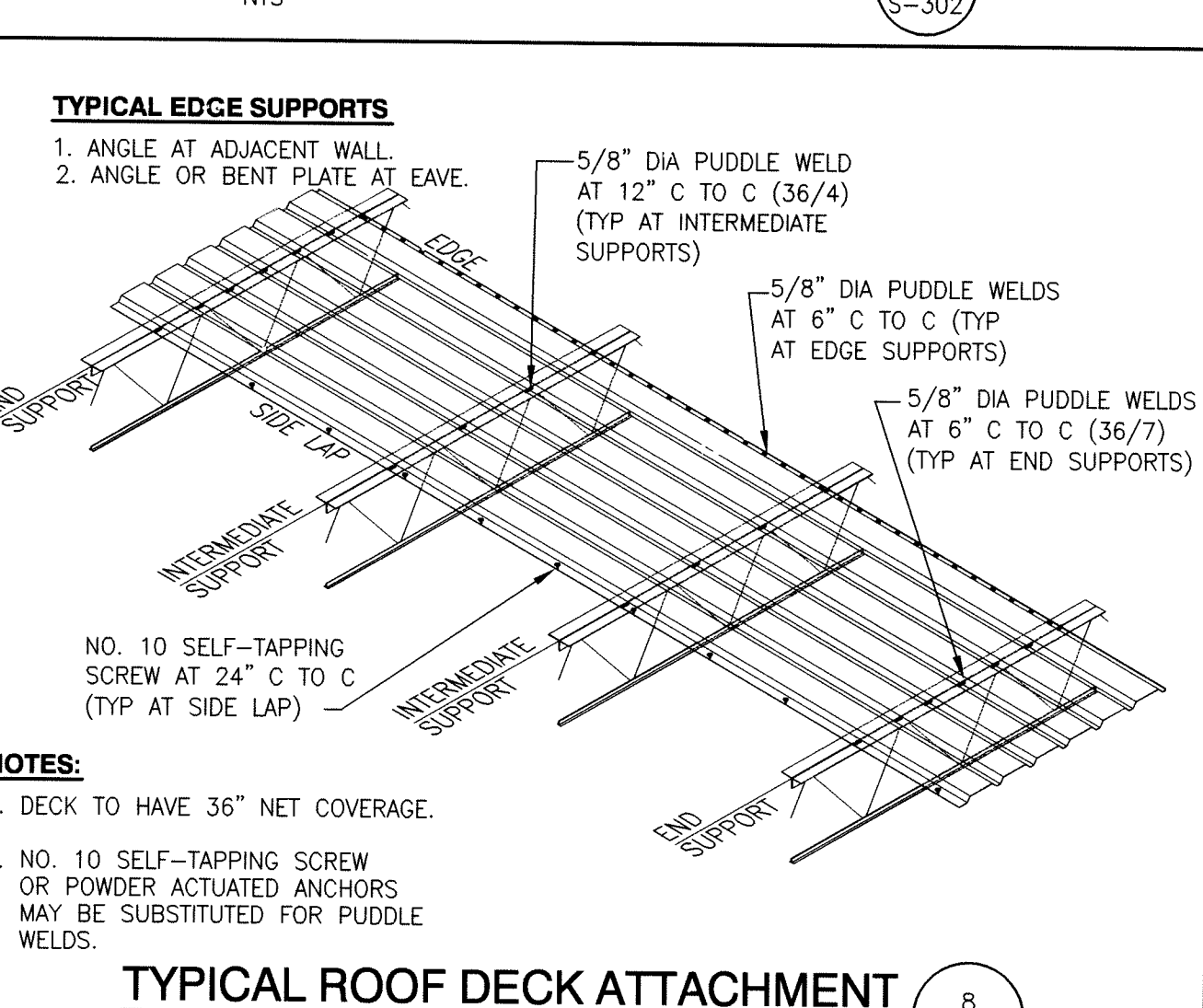
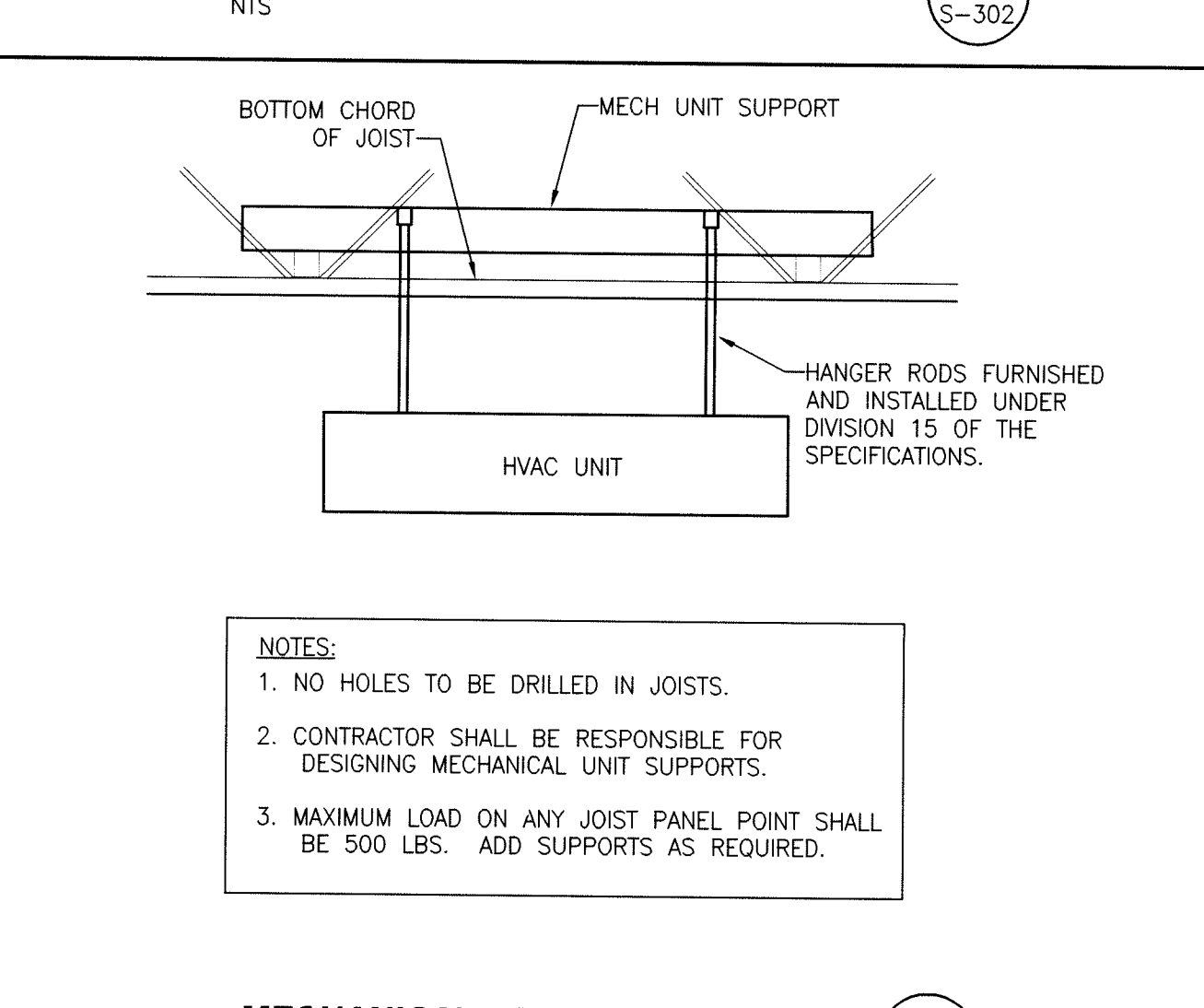
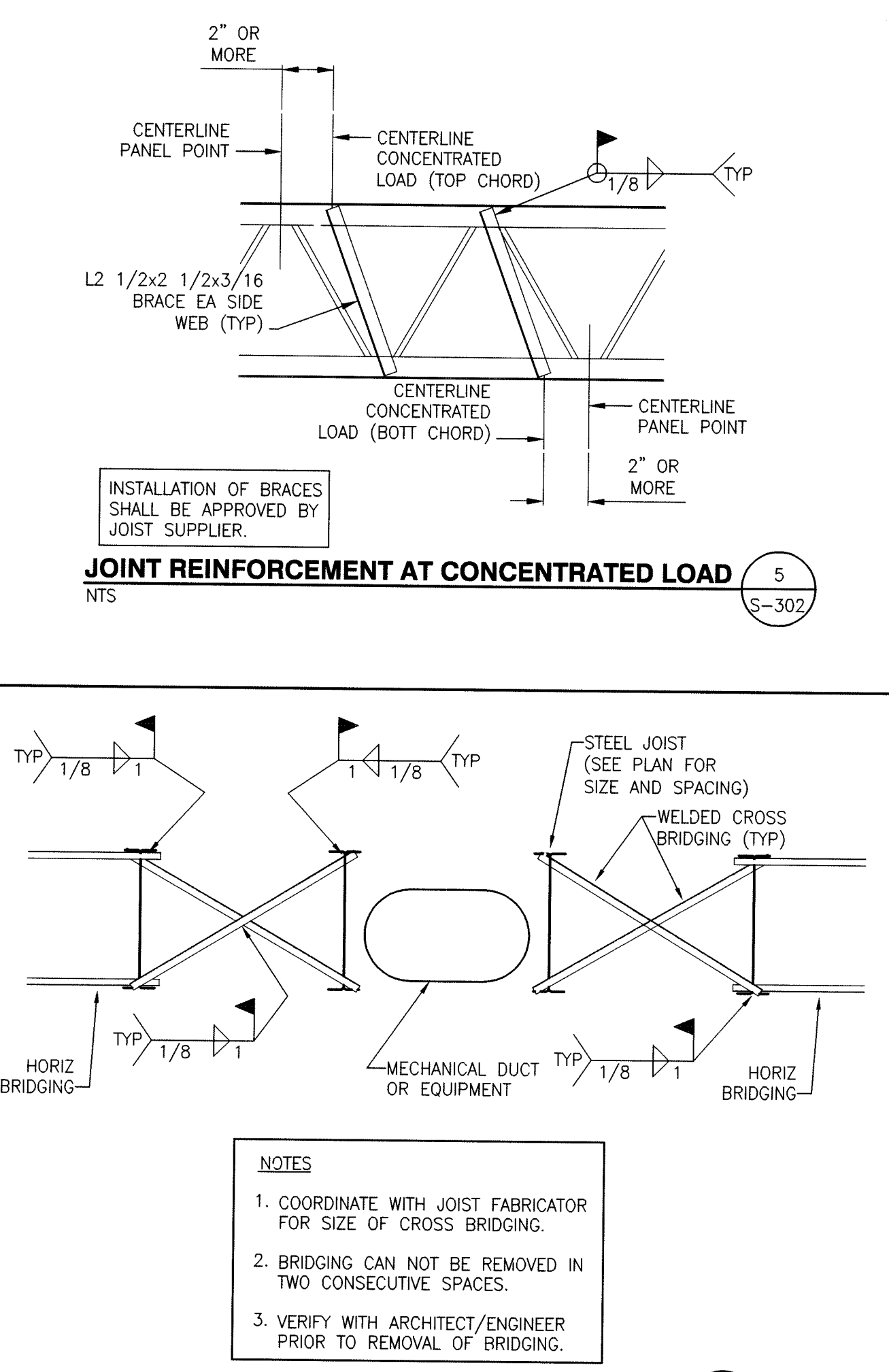
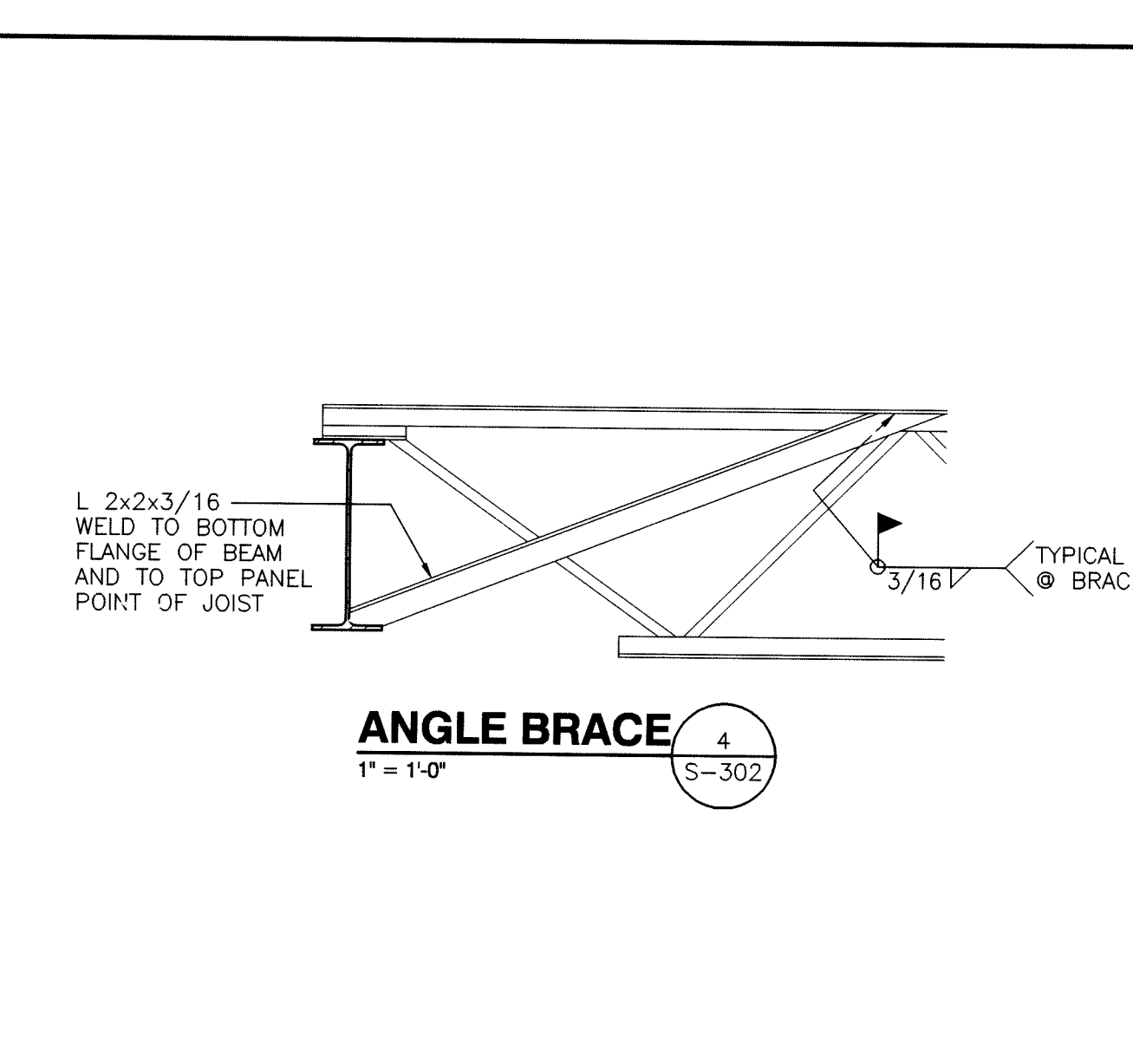
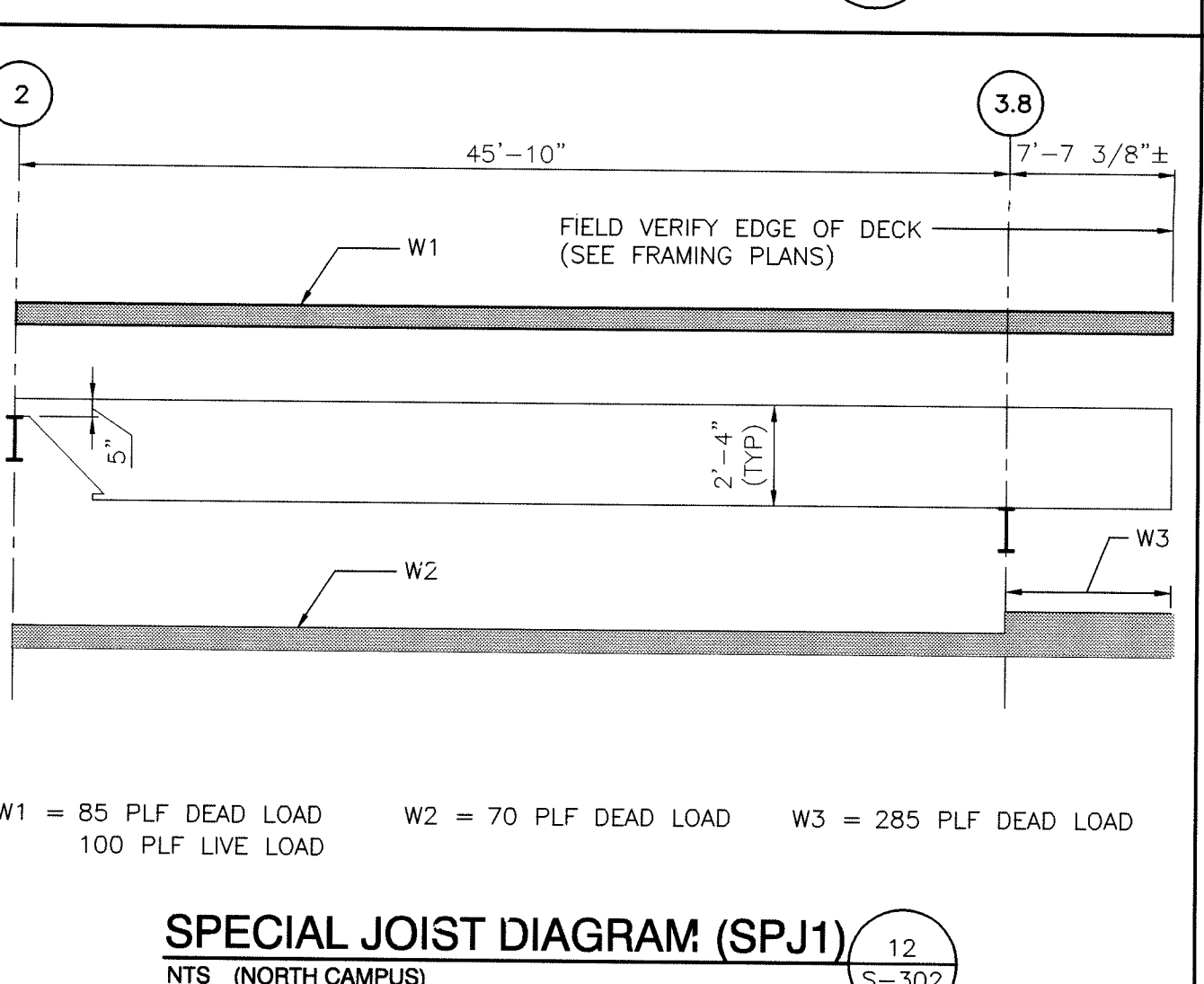
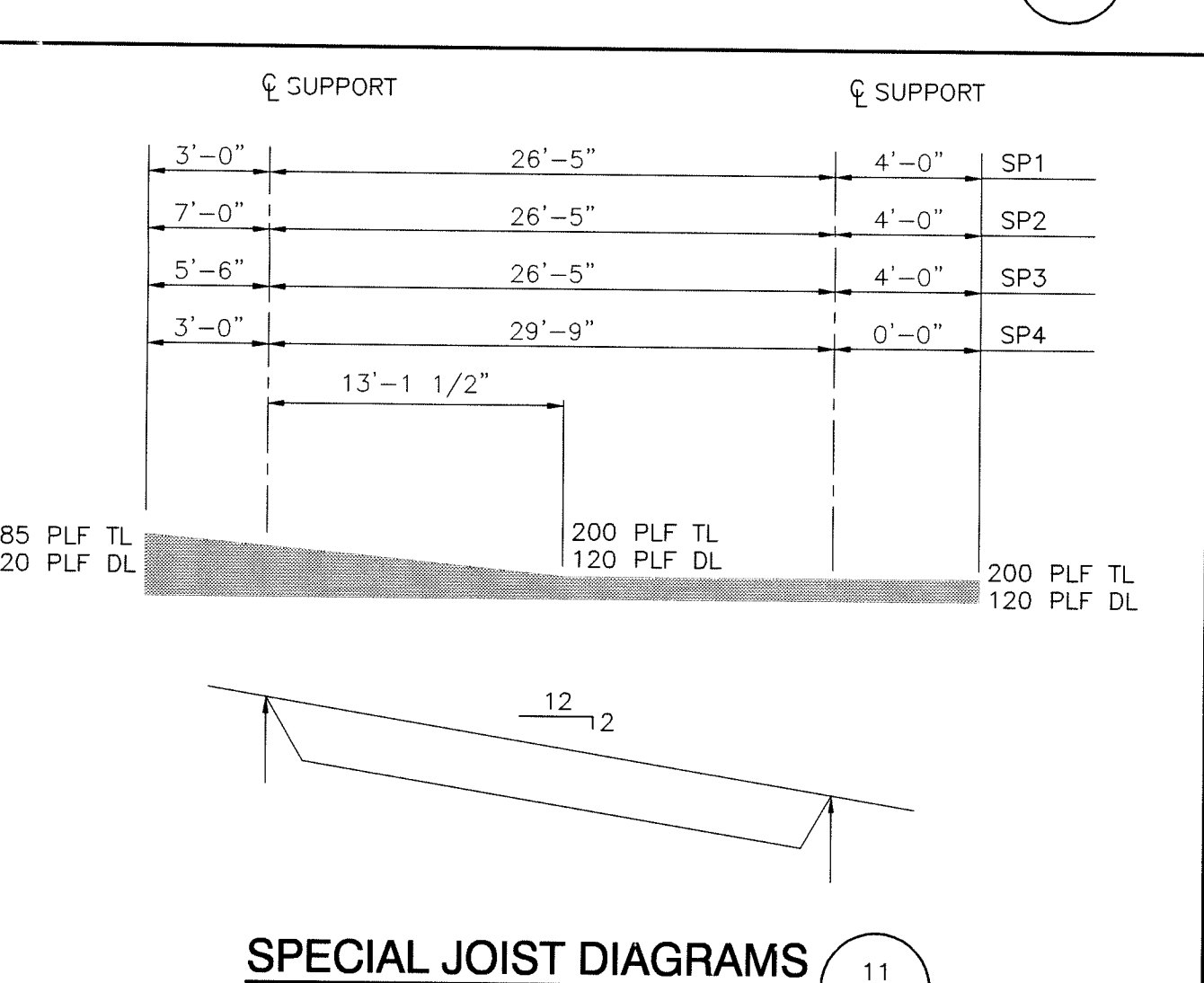
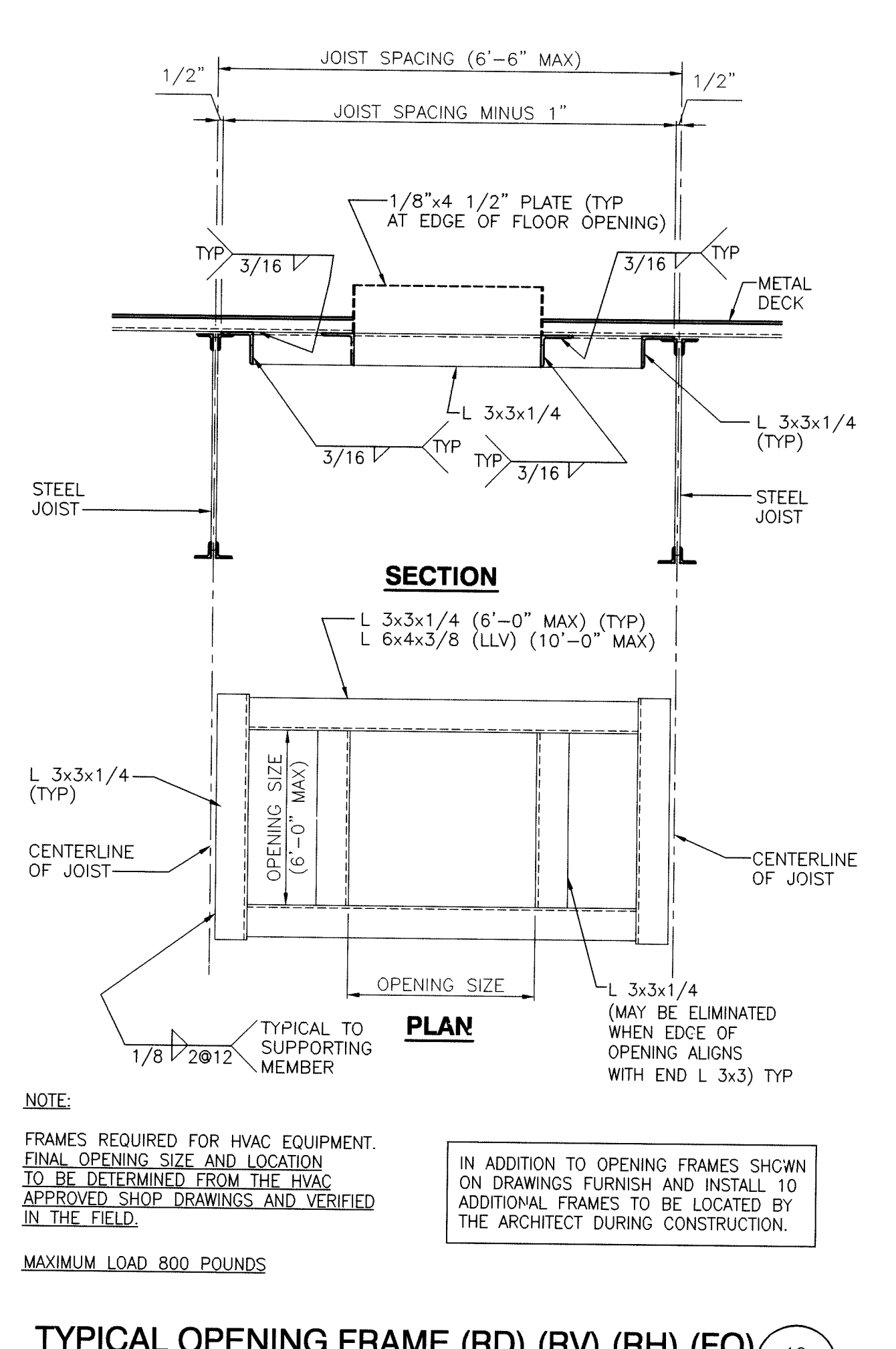
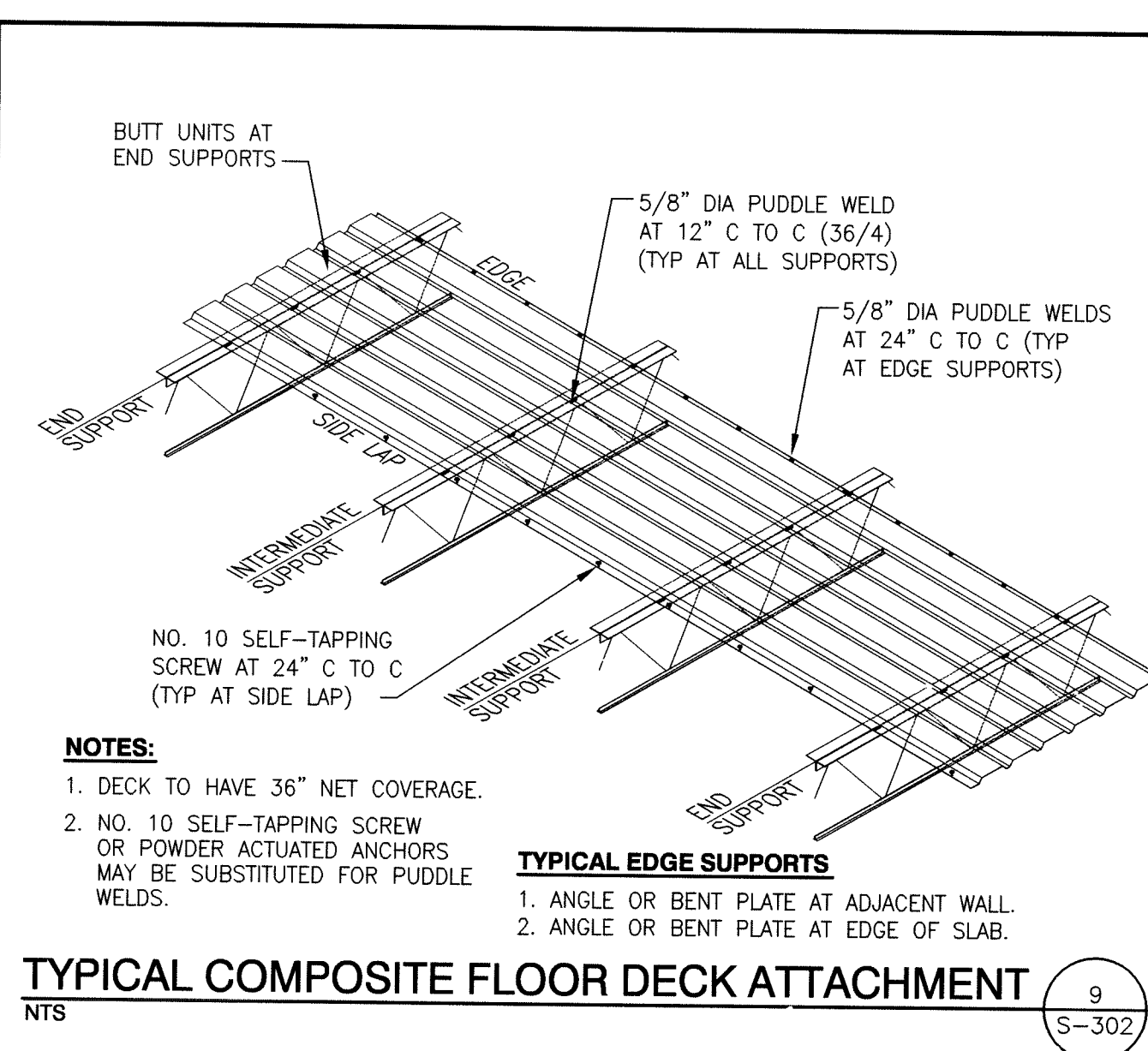
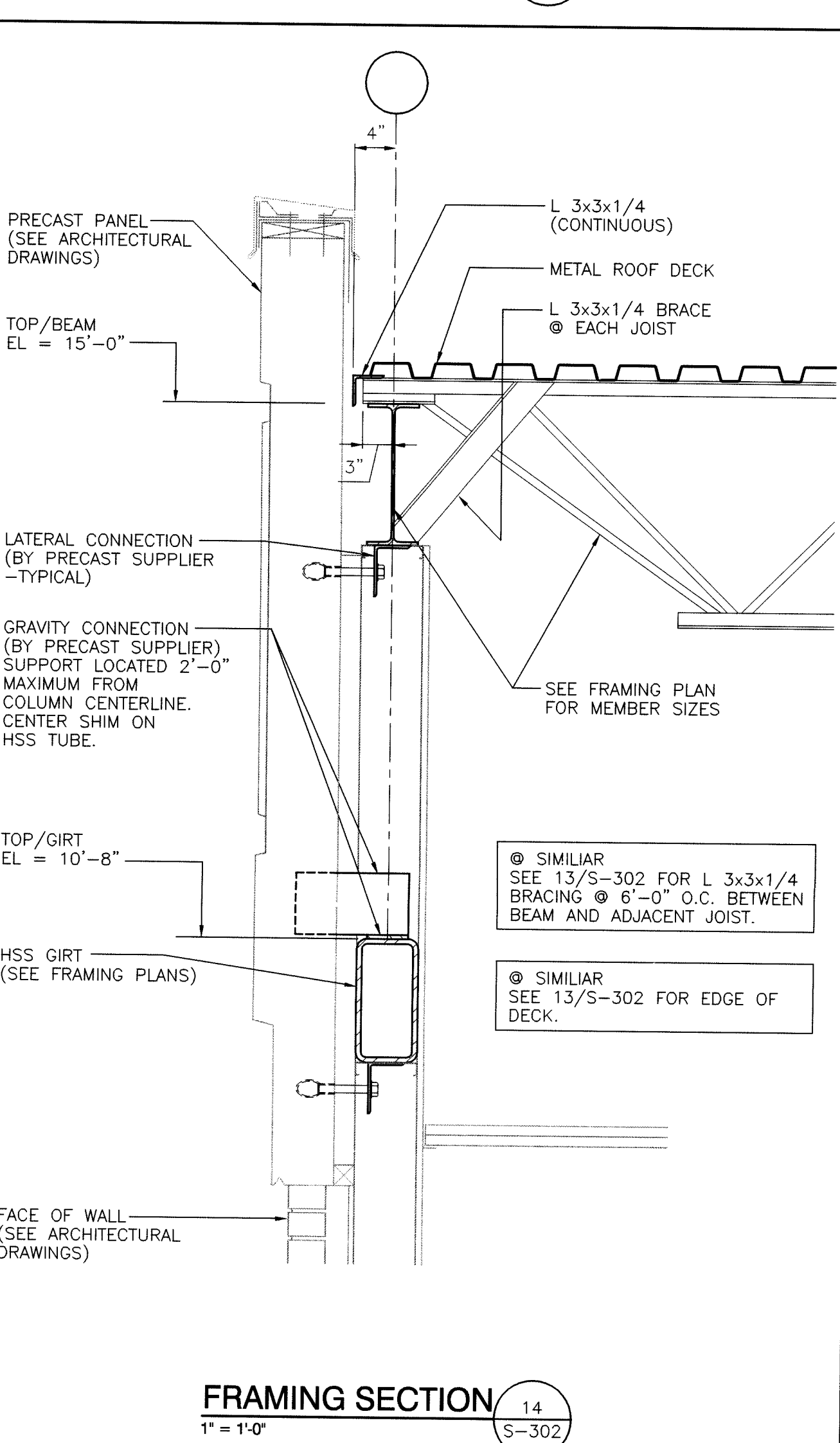
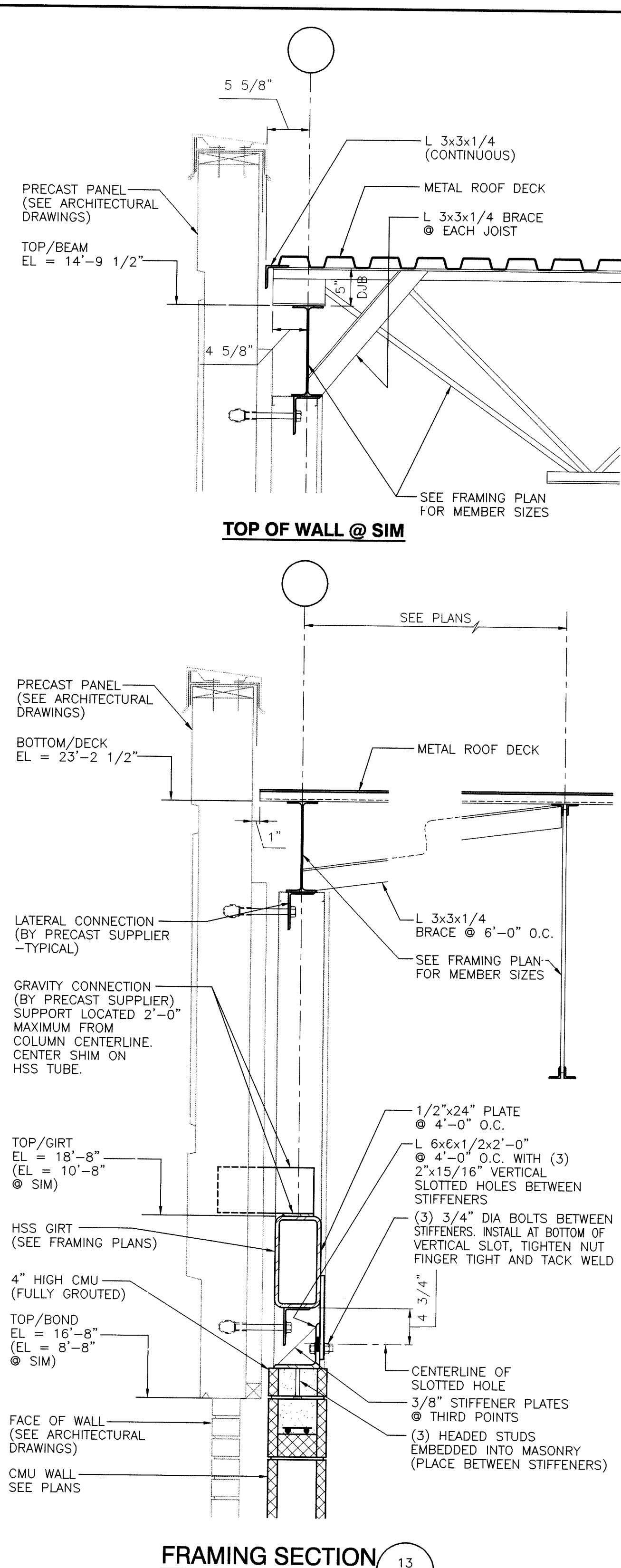
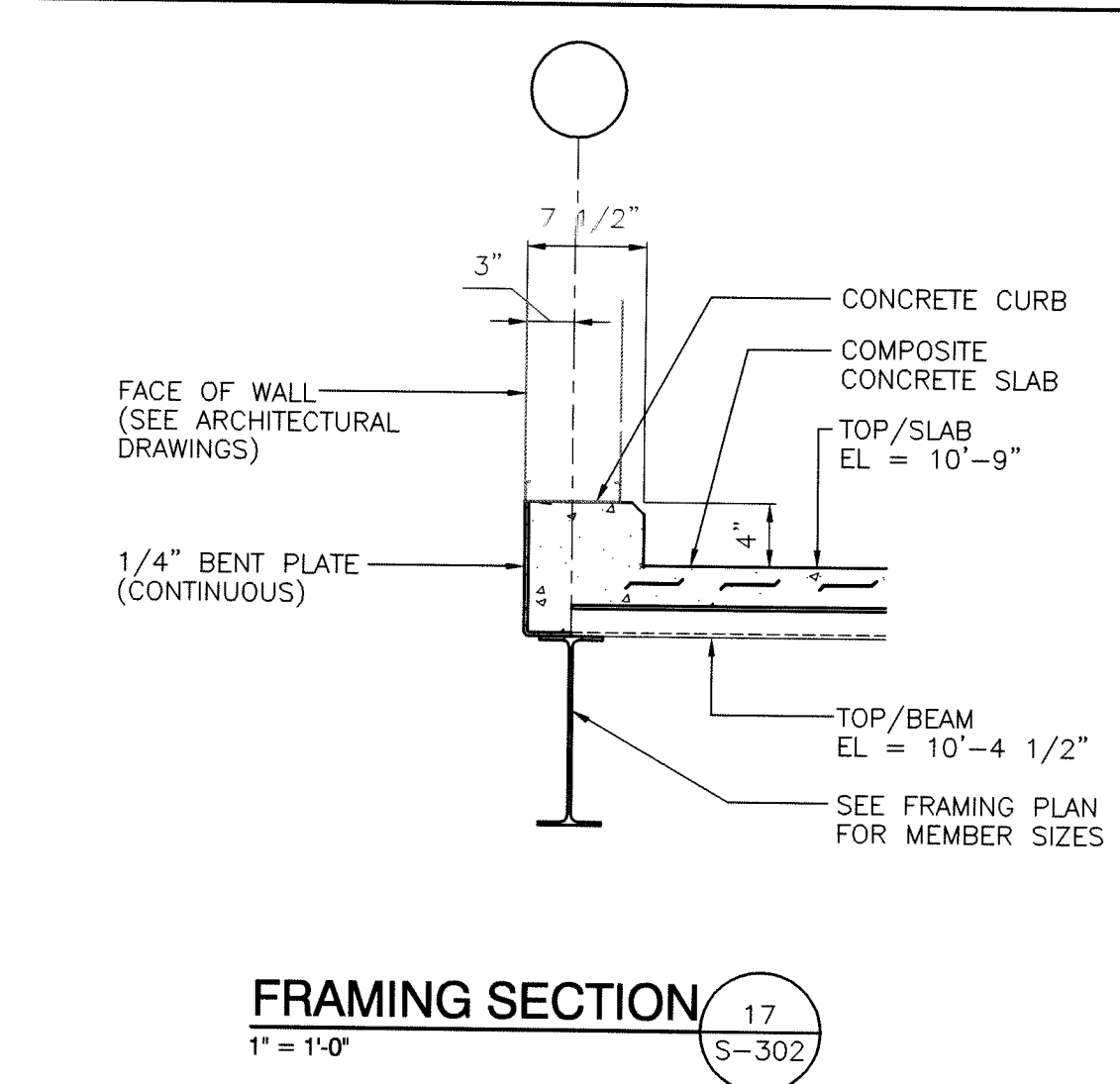
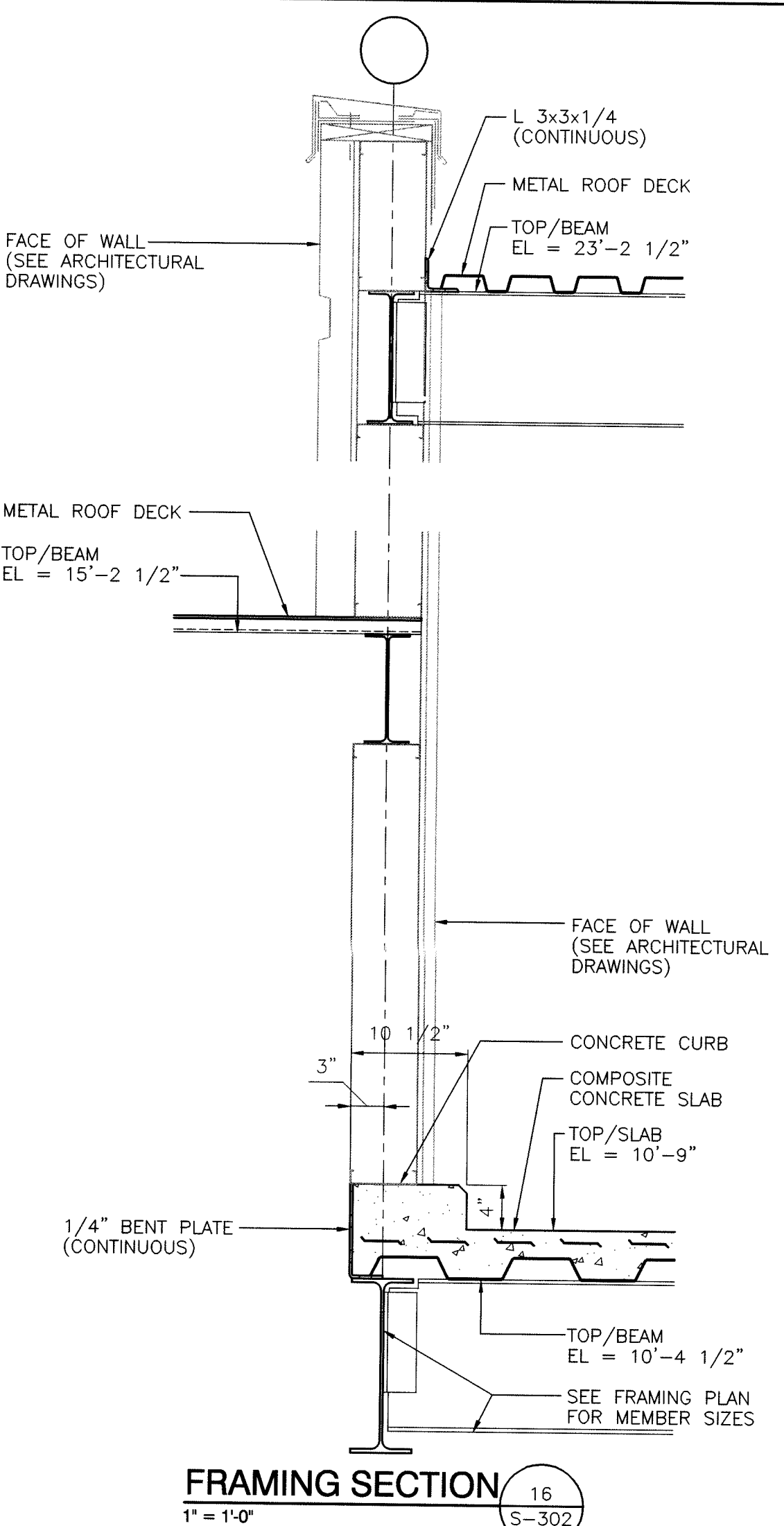
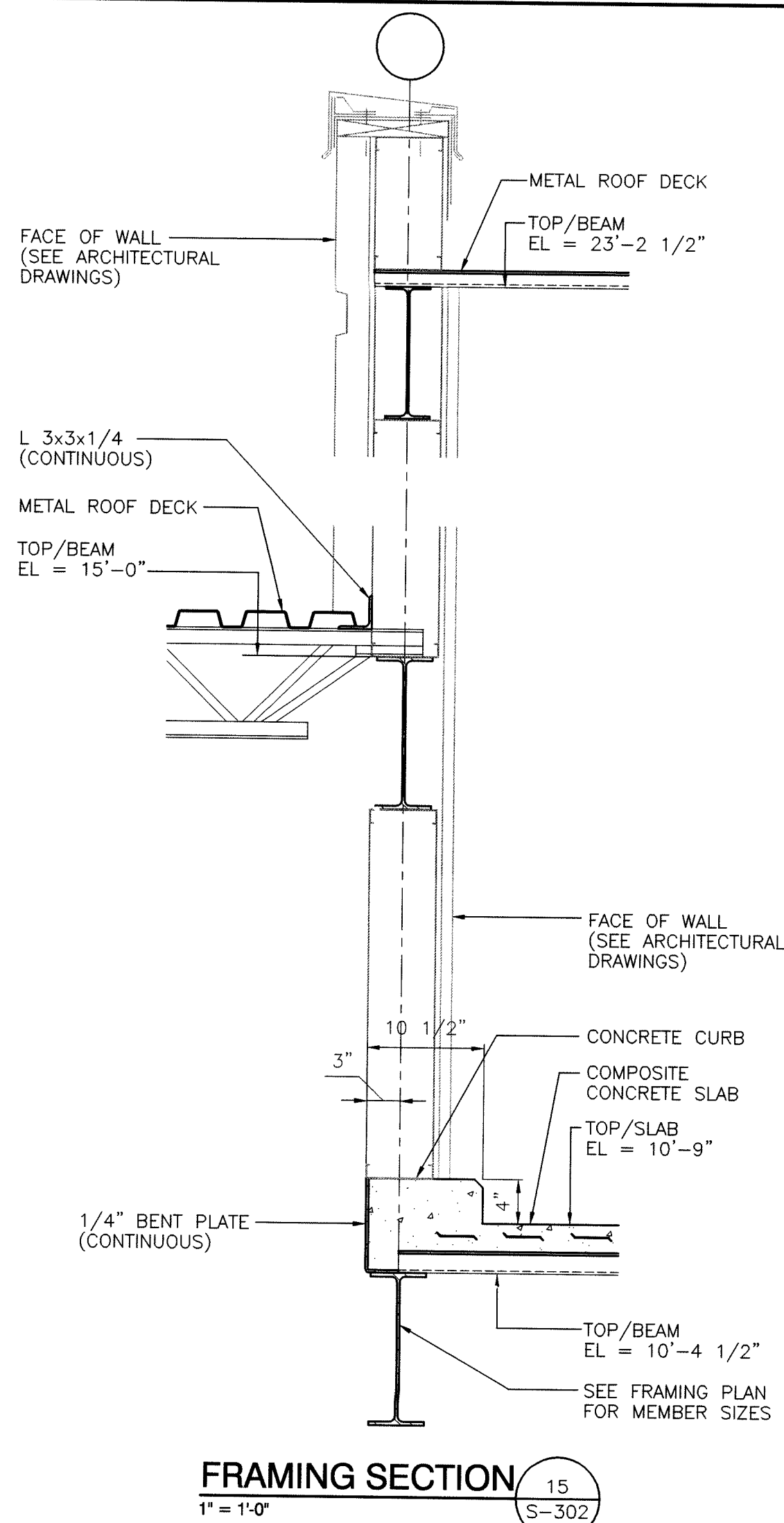


SEE PLAN 2-0 UND

FOOTING STEP

19





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PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP
MARION COUNTY, INDIANA

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PROJECT 02-580
DATE 04/21/03
COORDINATED BY KDB/RM
DRAWN BY DLH/MLM
CHECKED BY RM

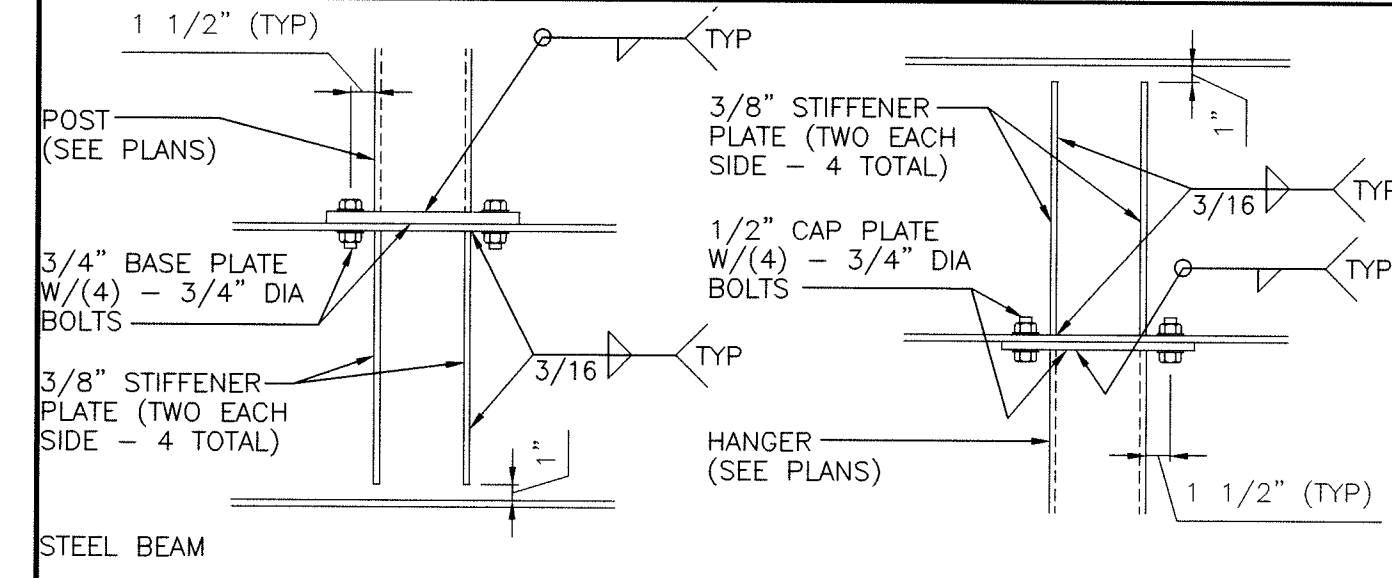
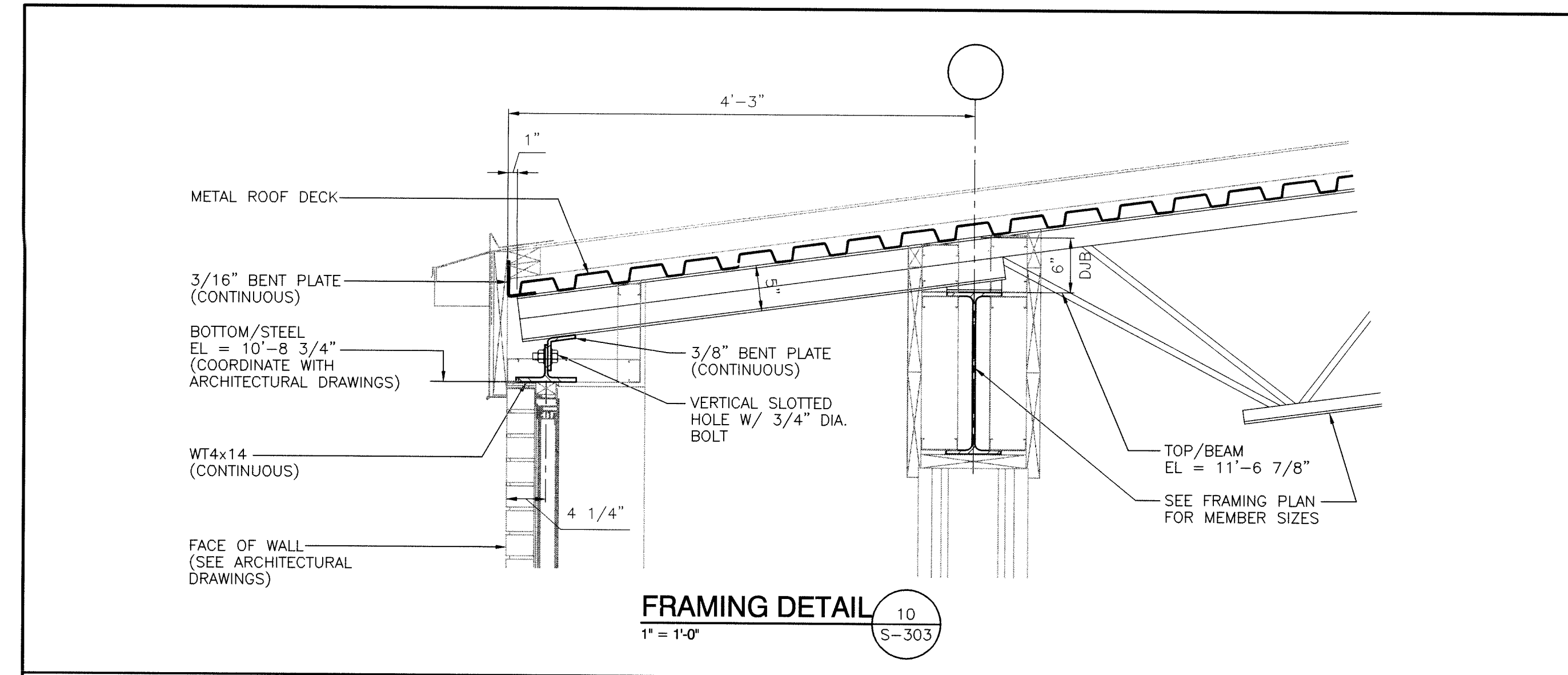
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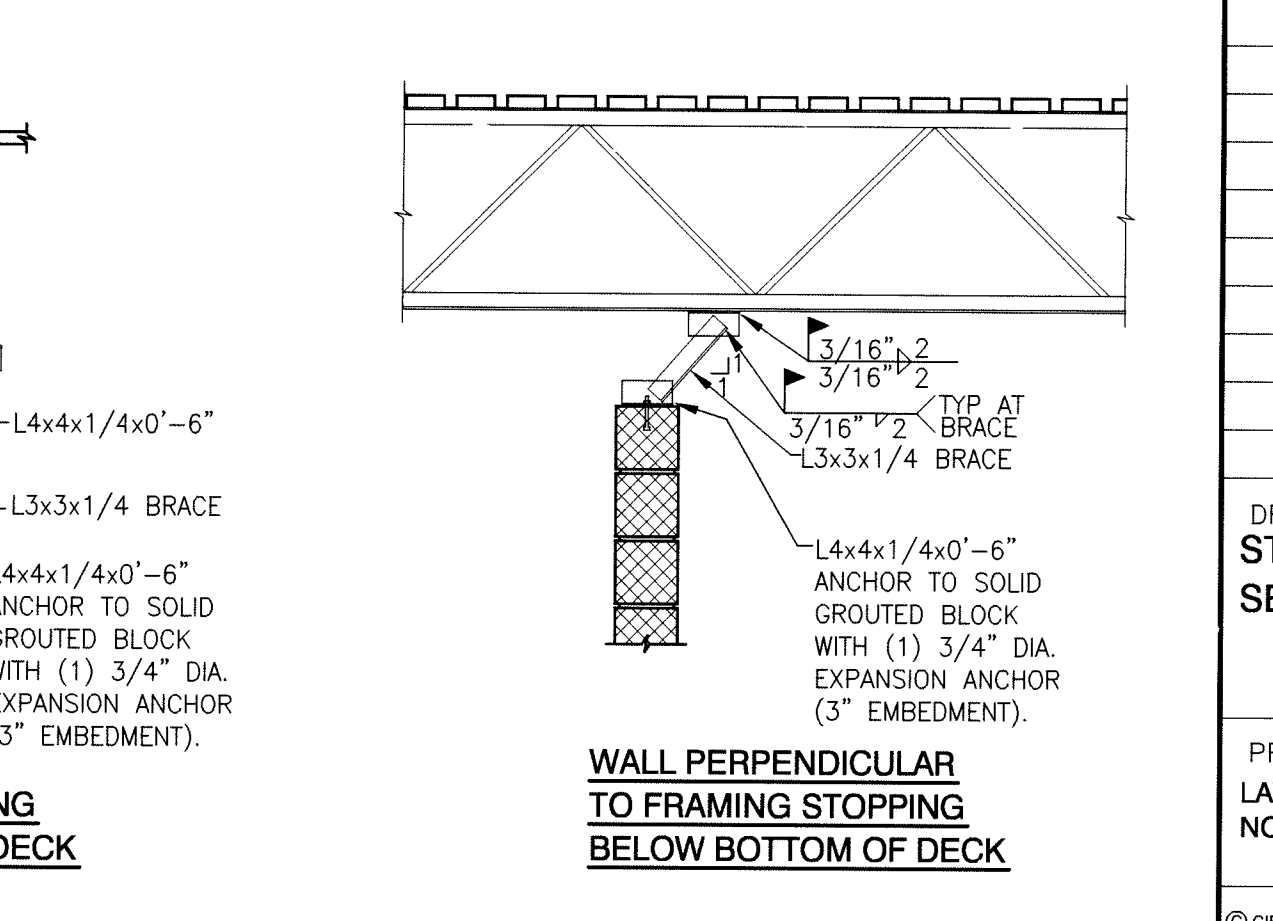
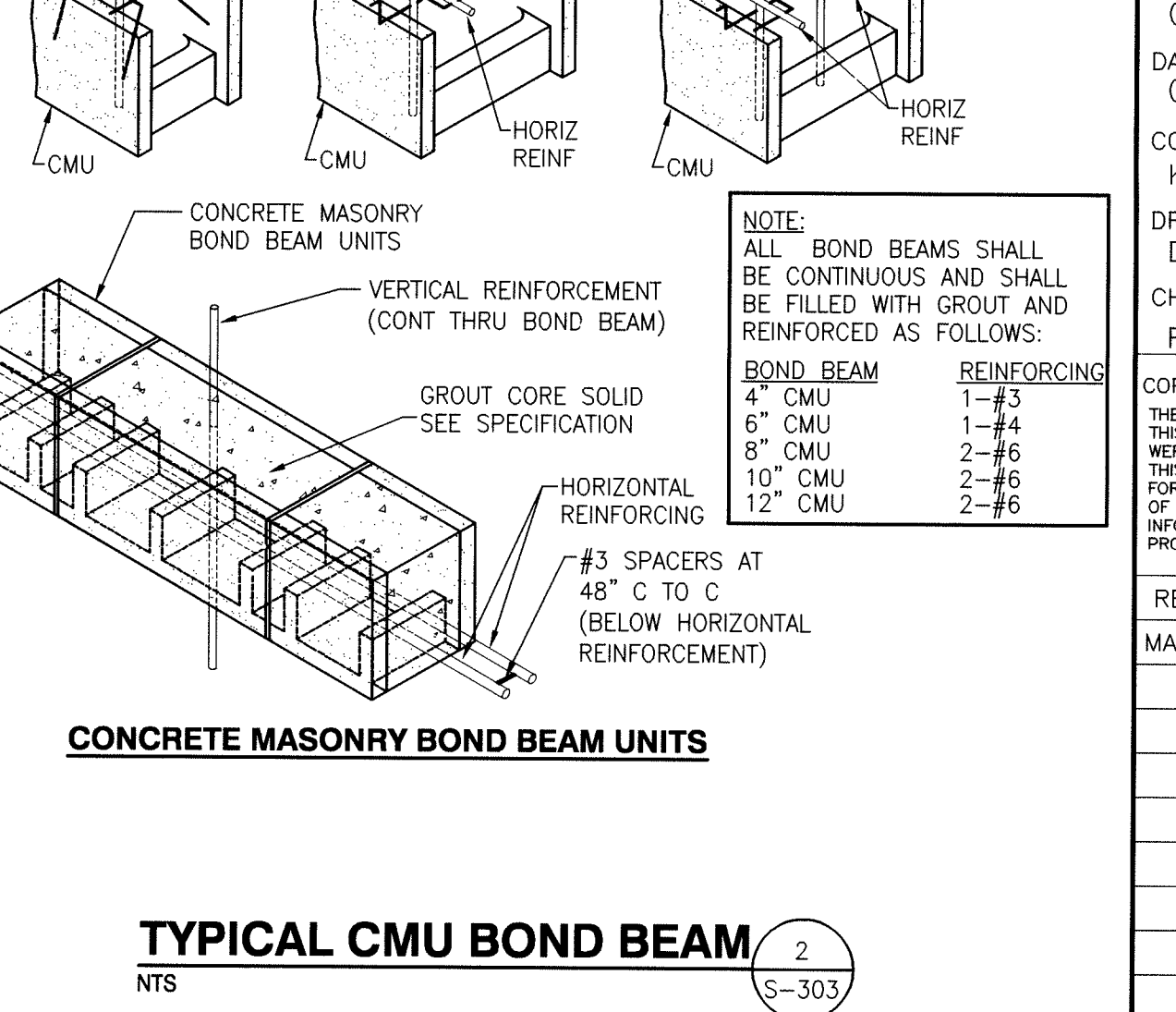
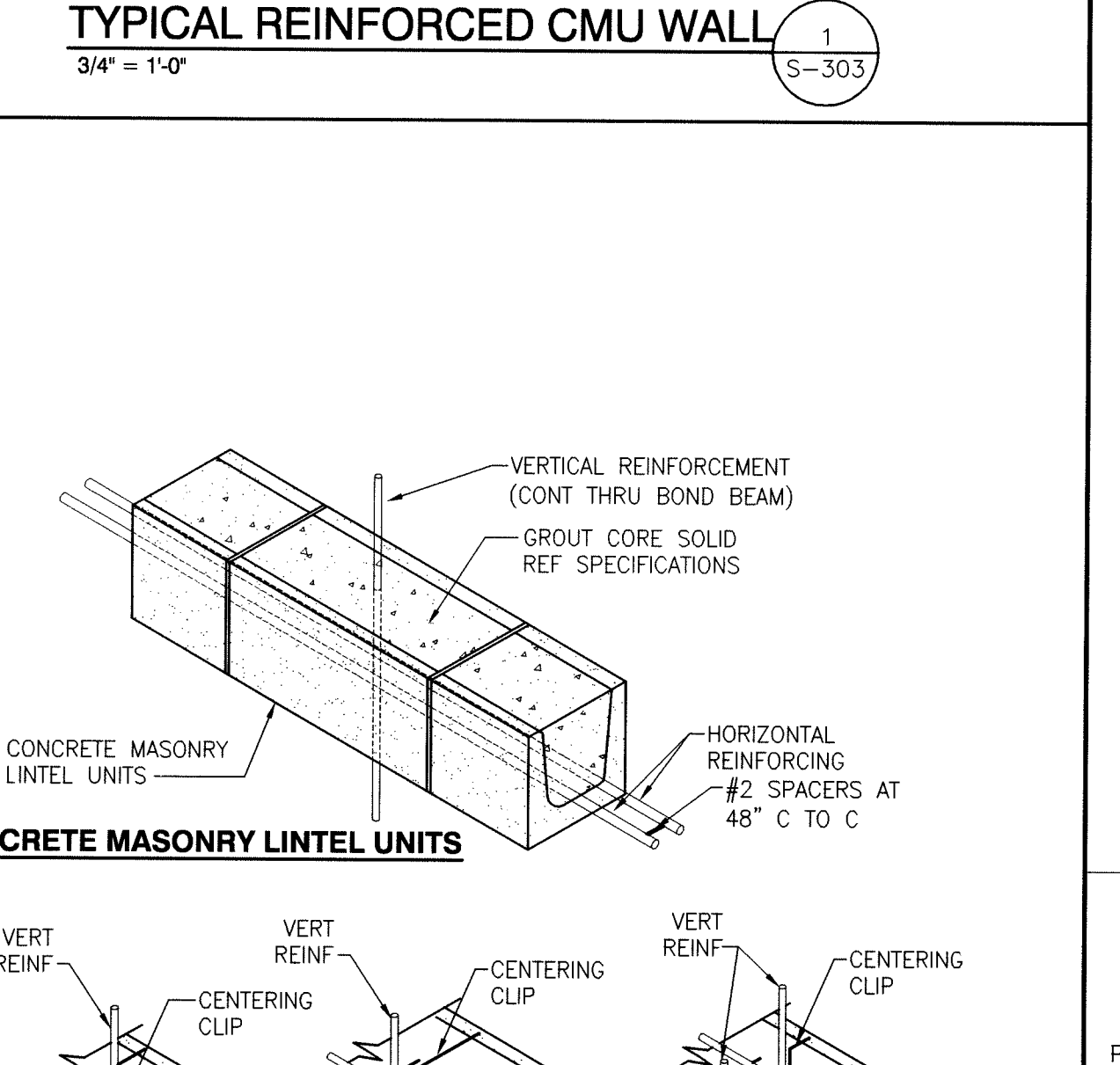
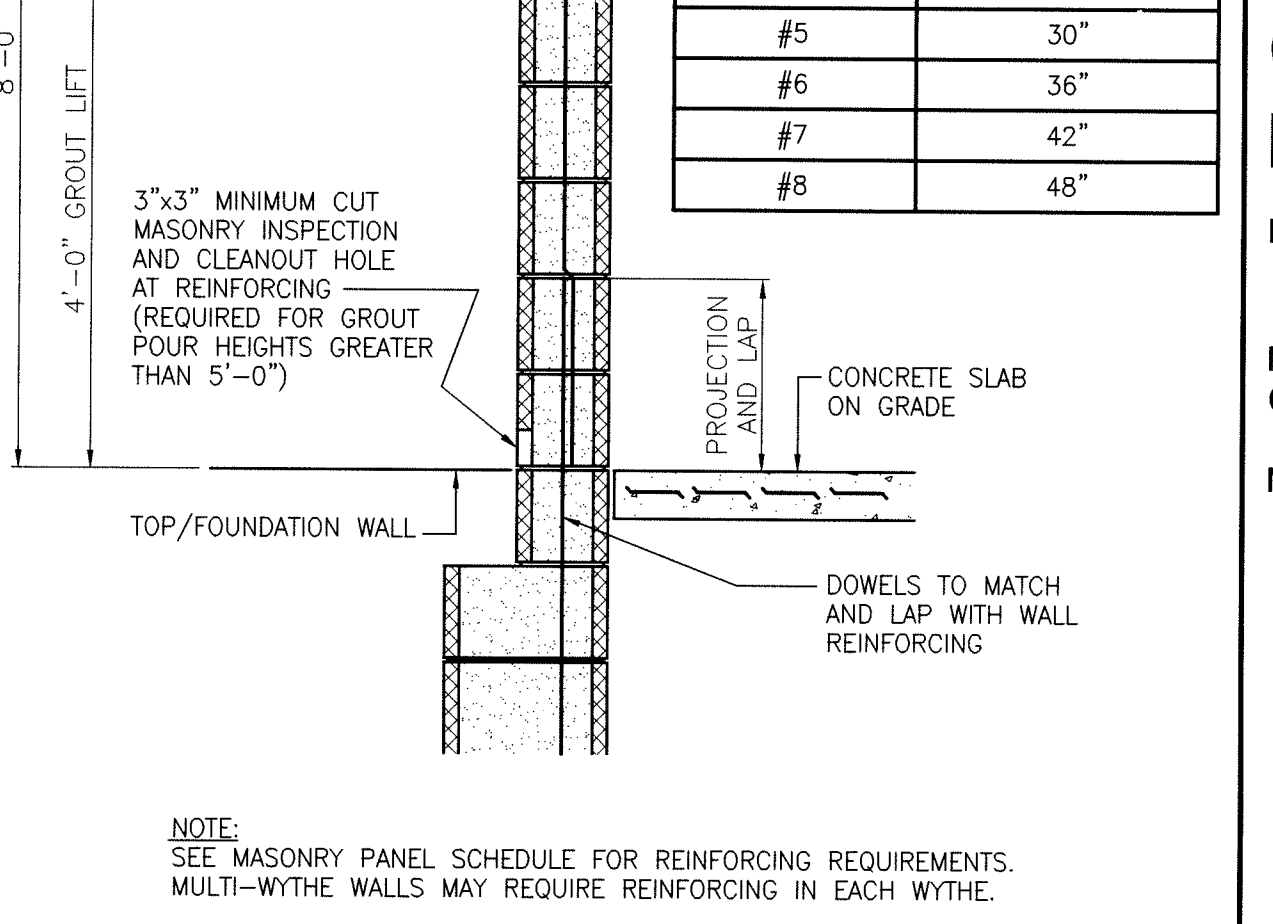
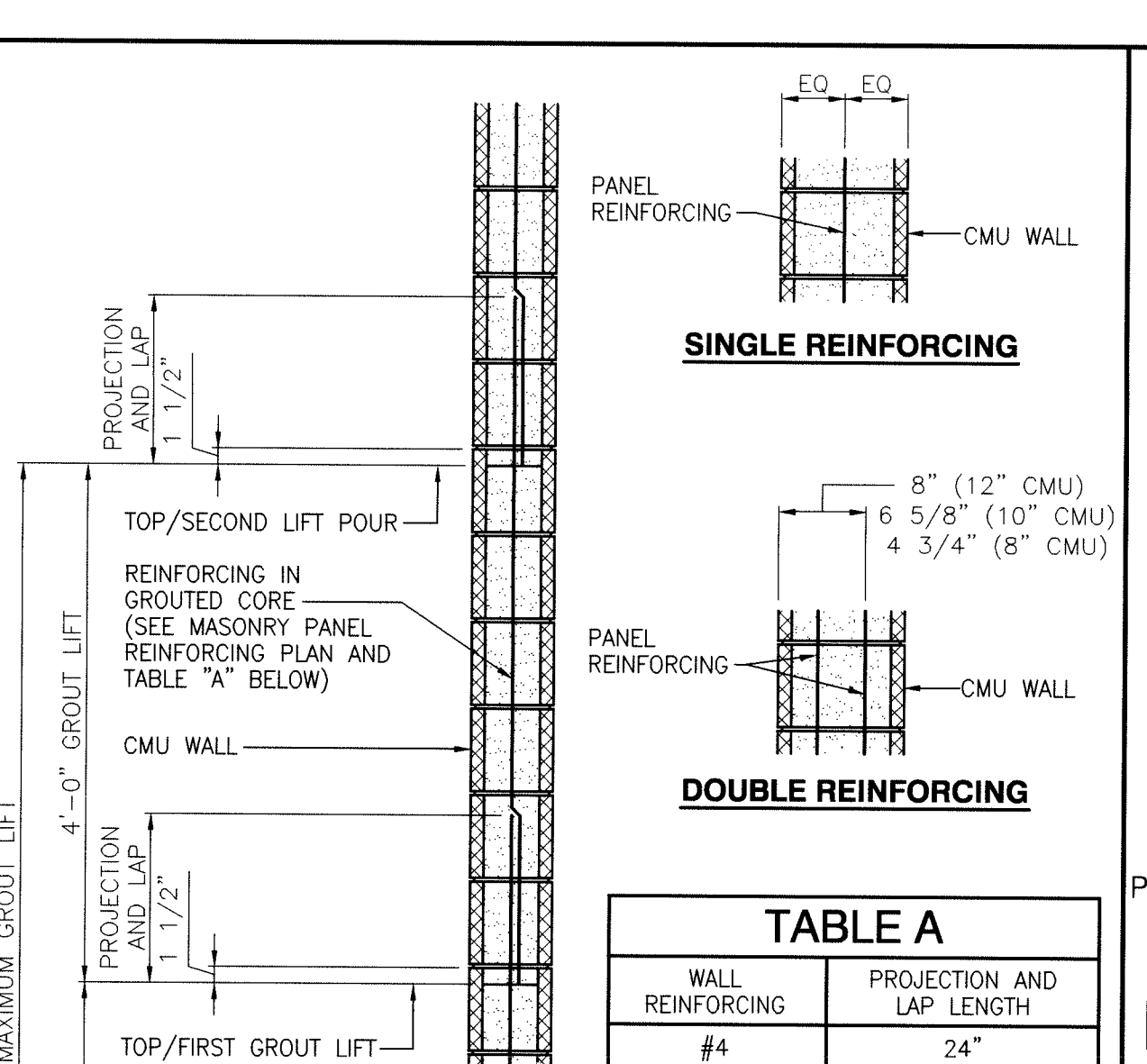
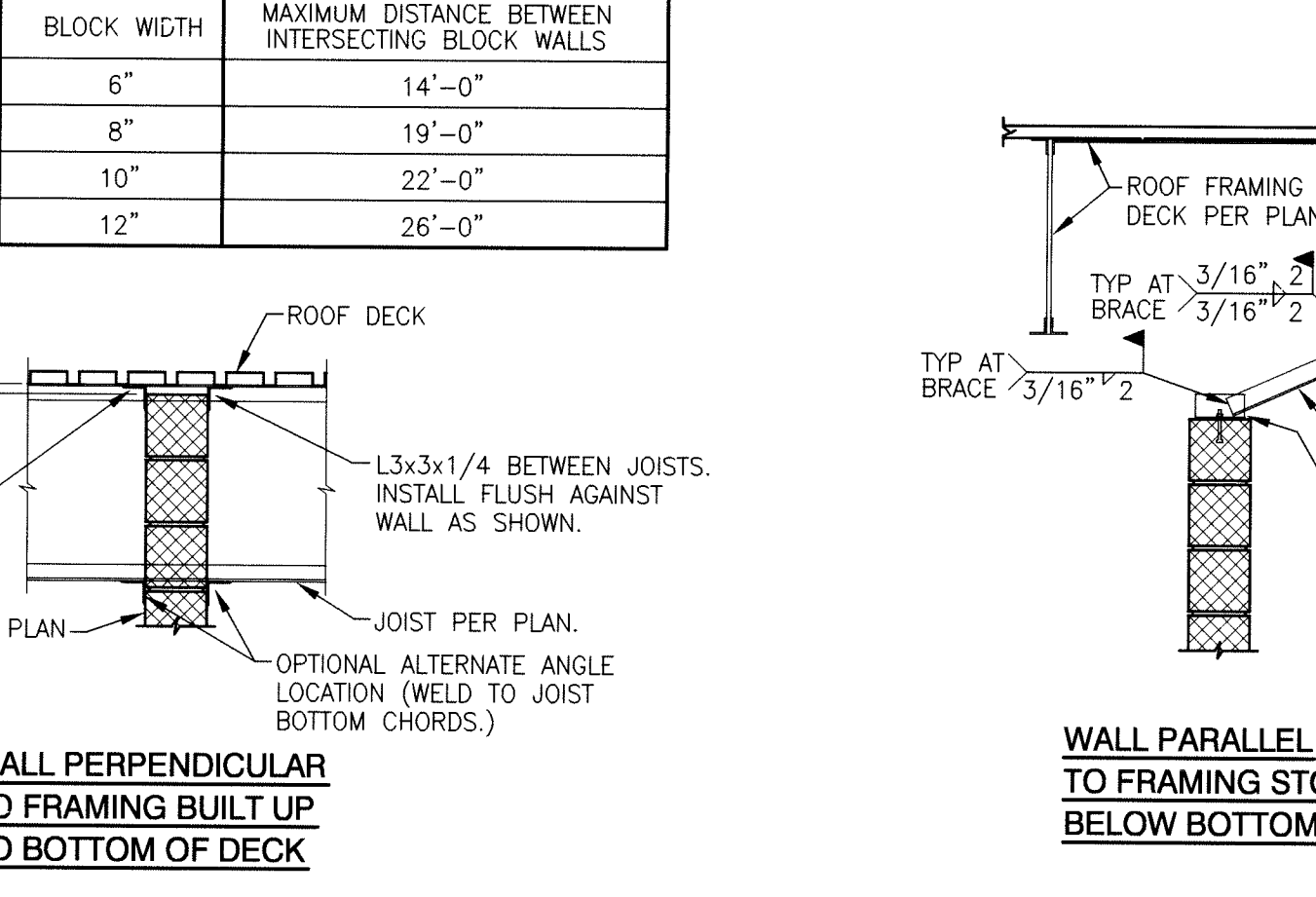
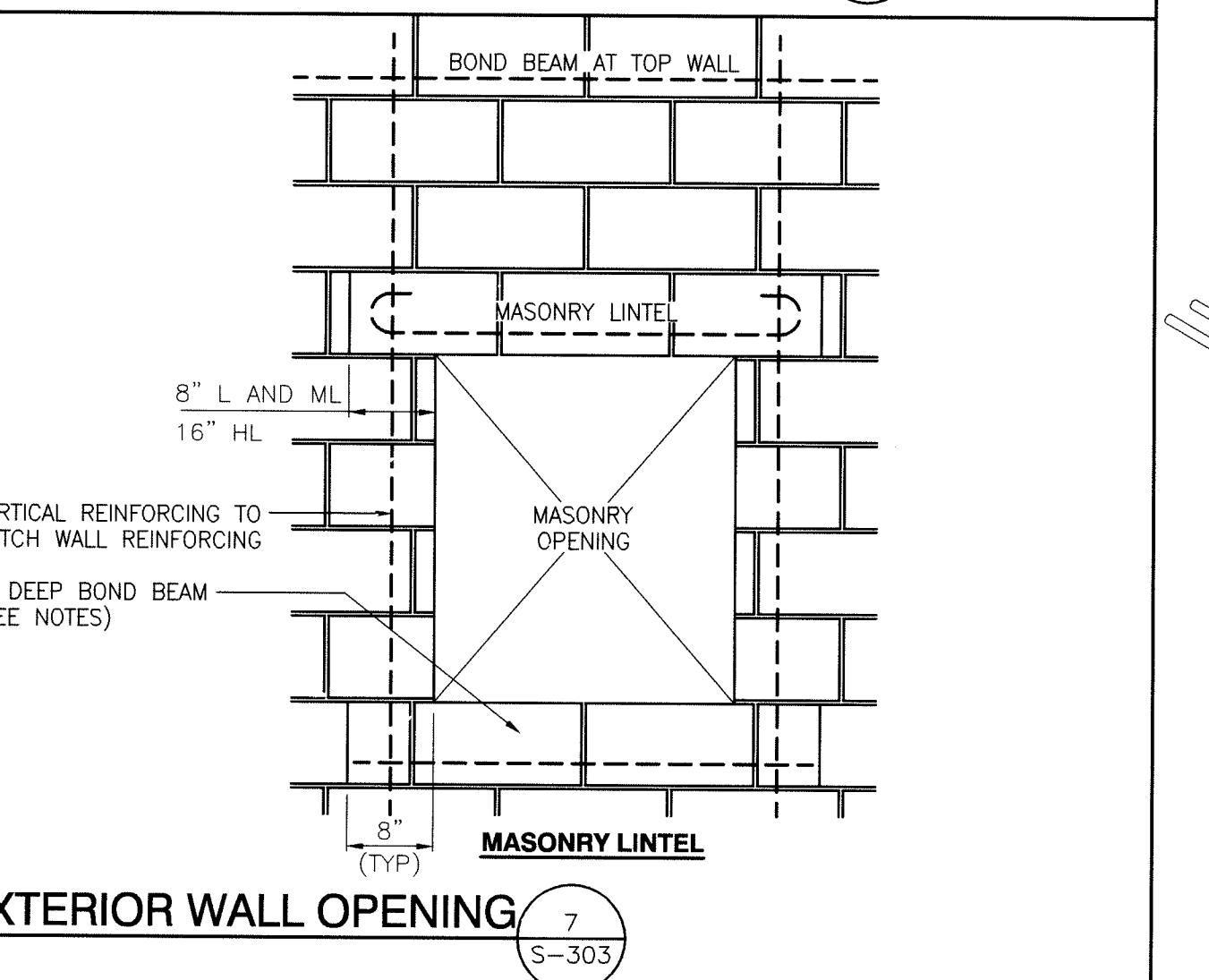
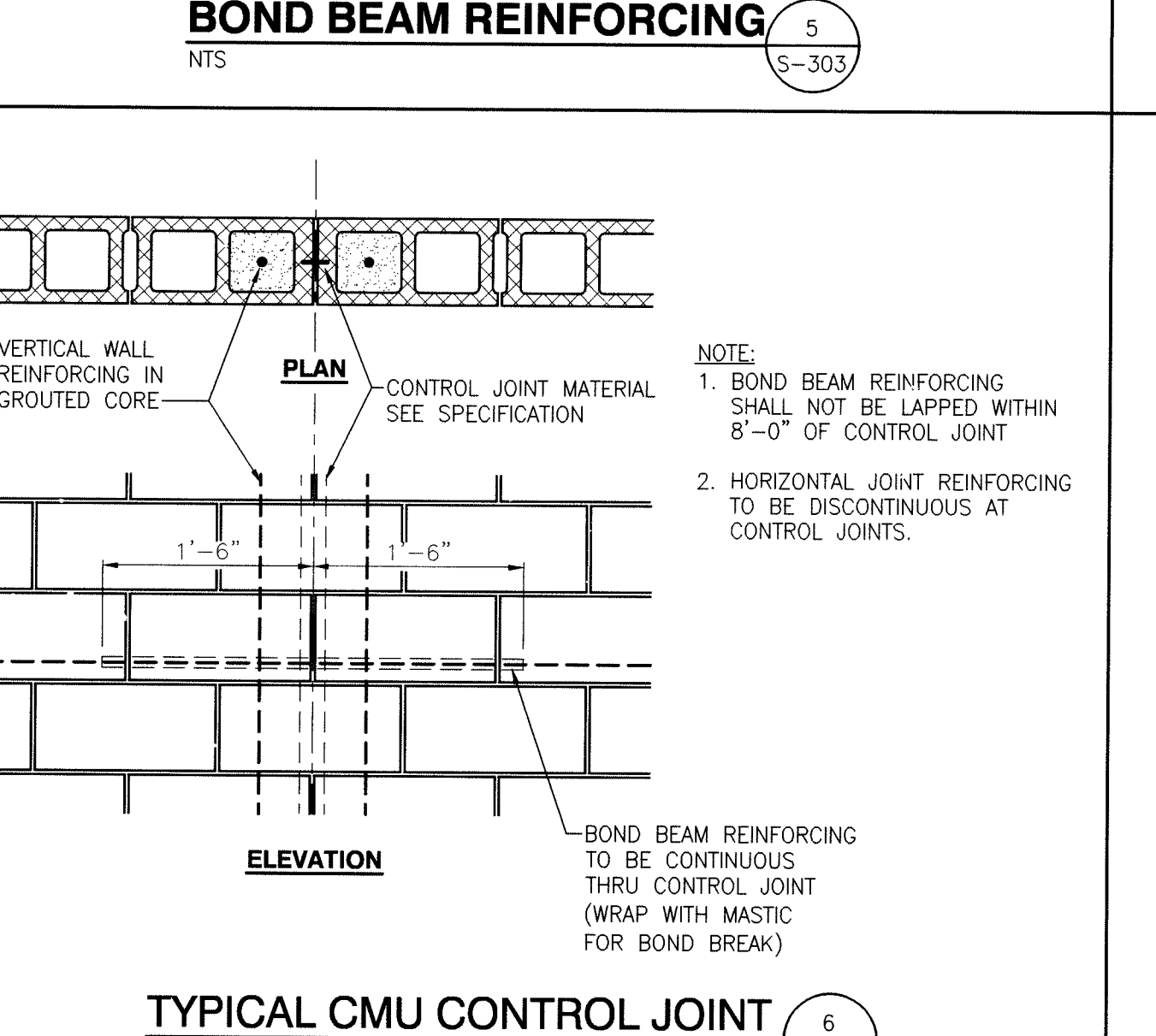
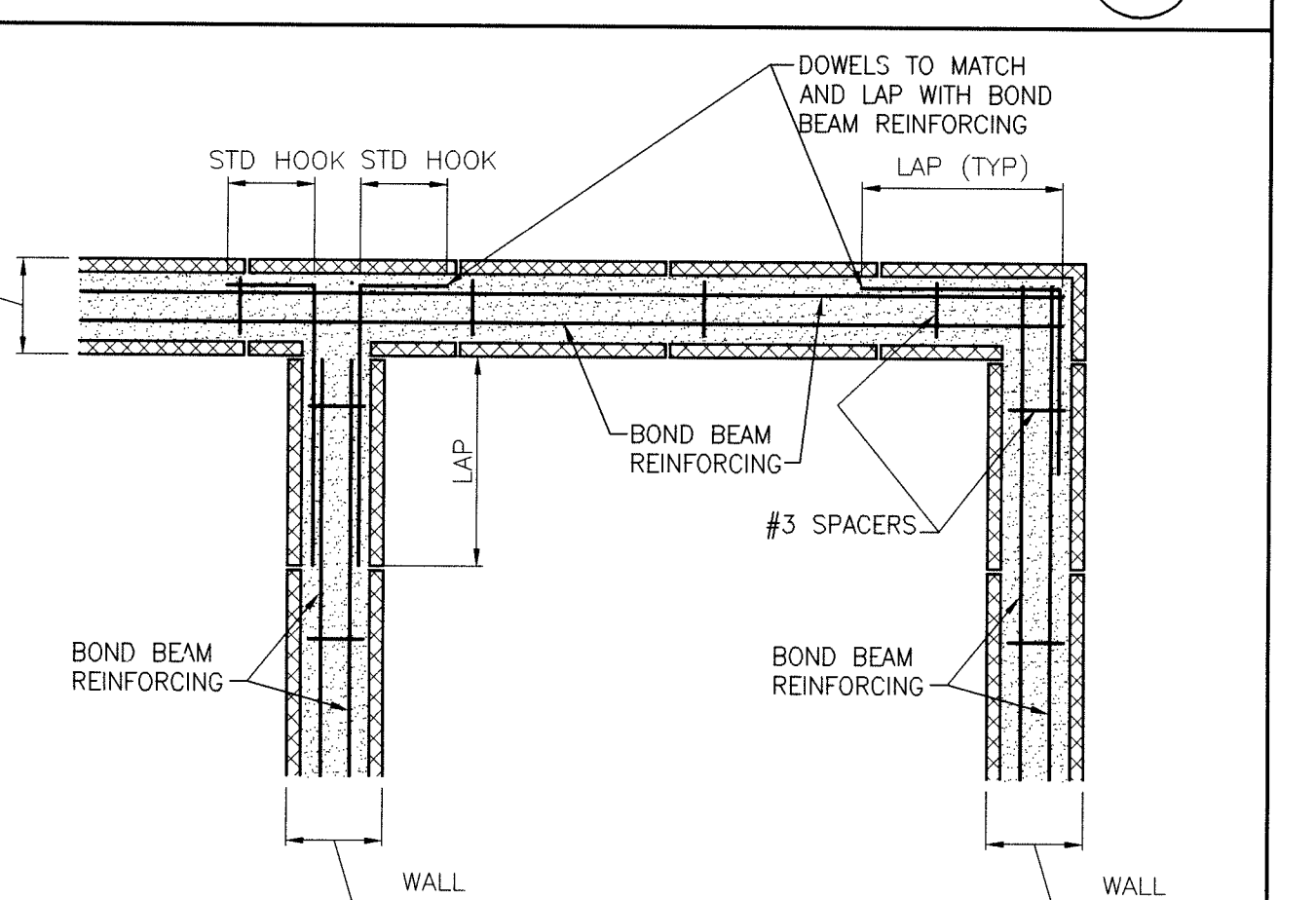
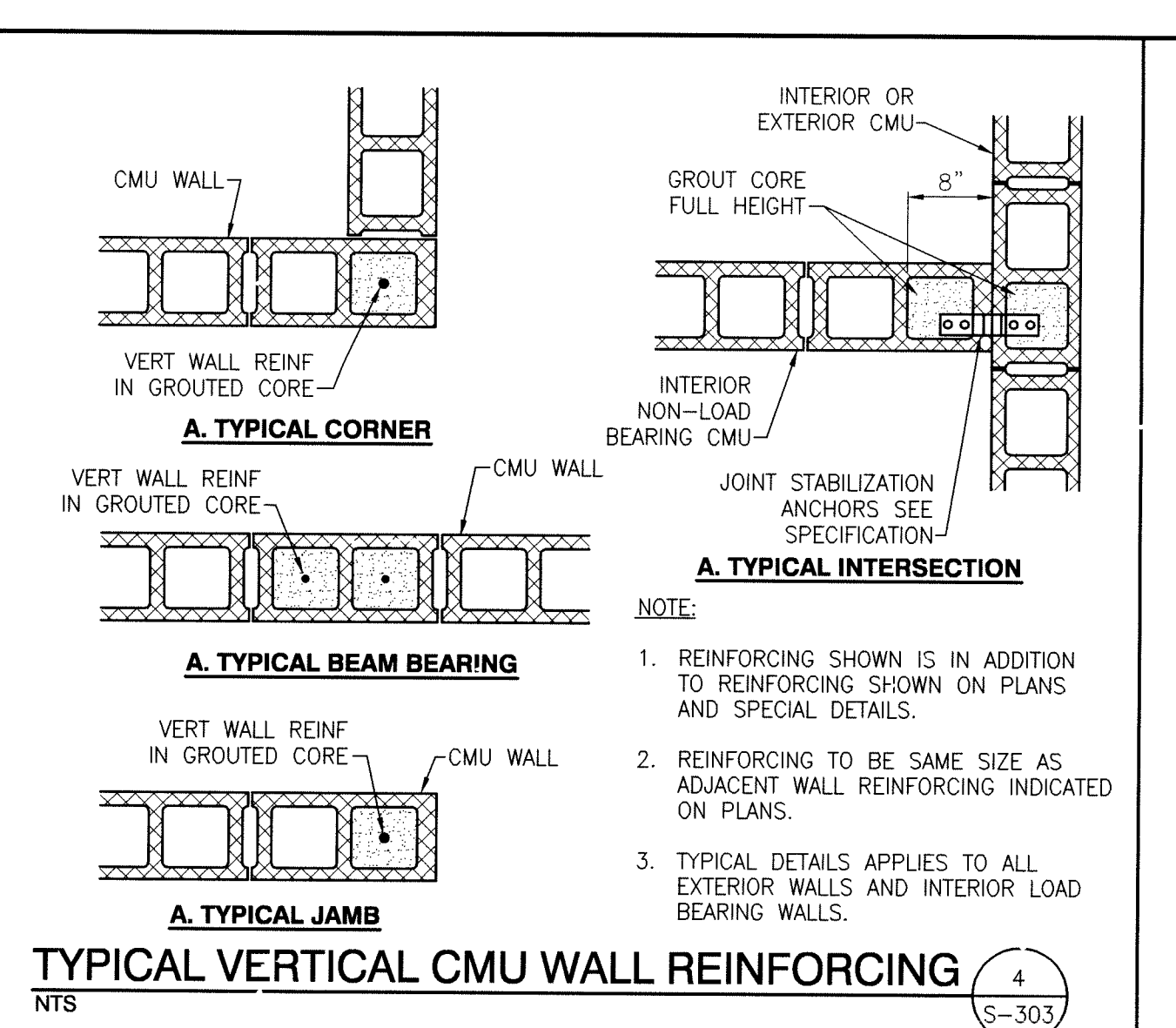
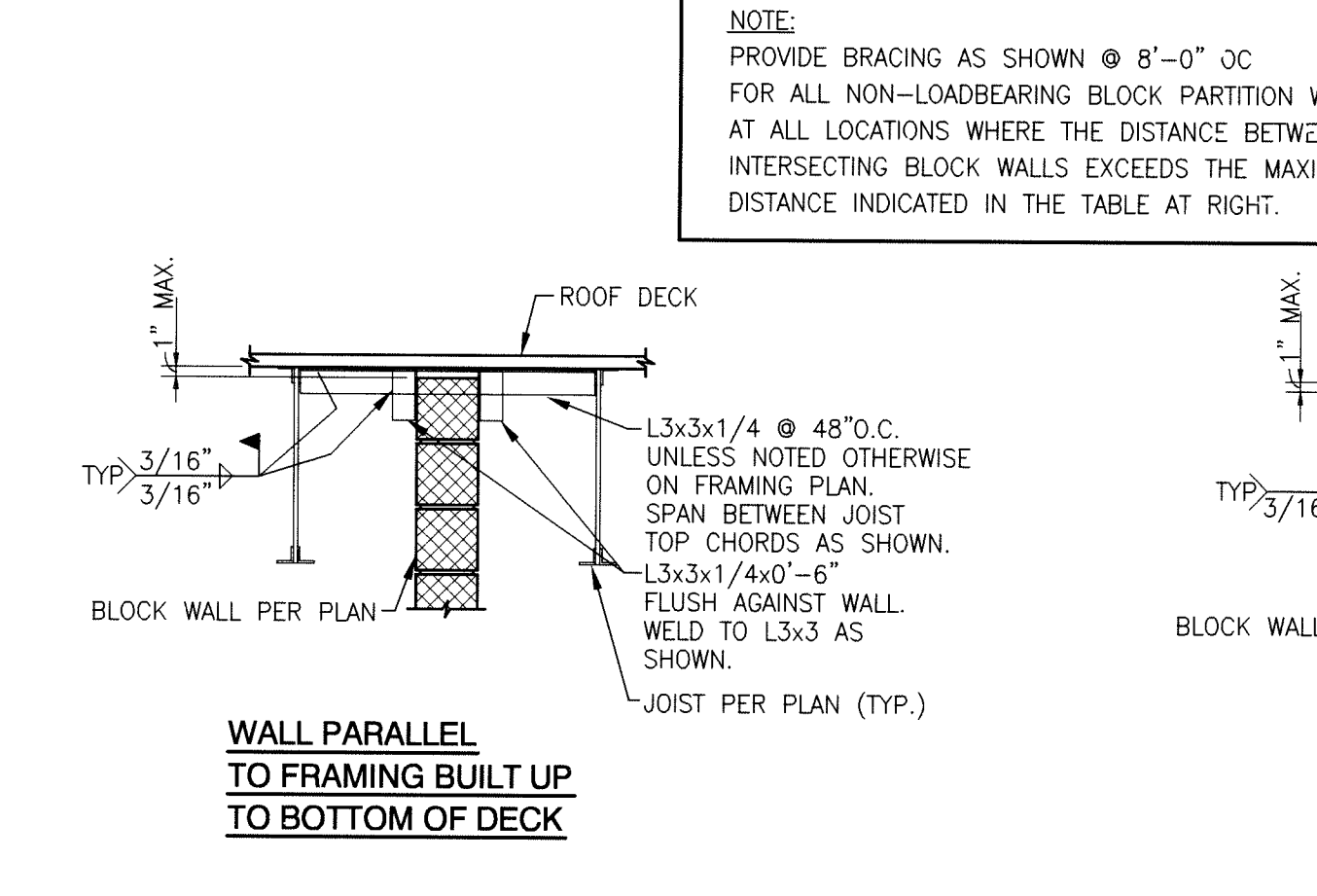
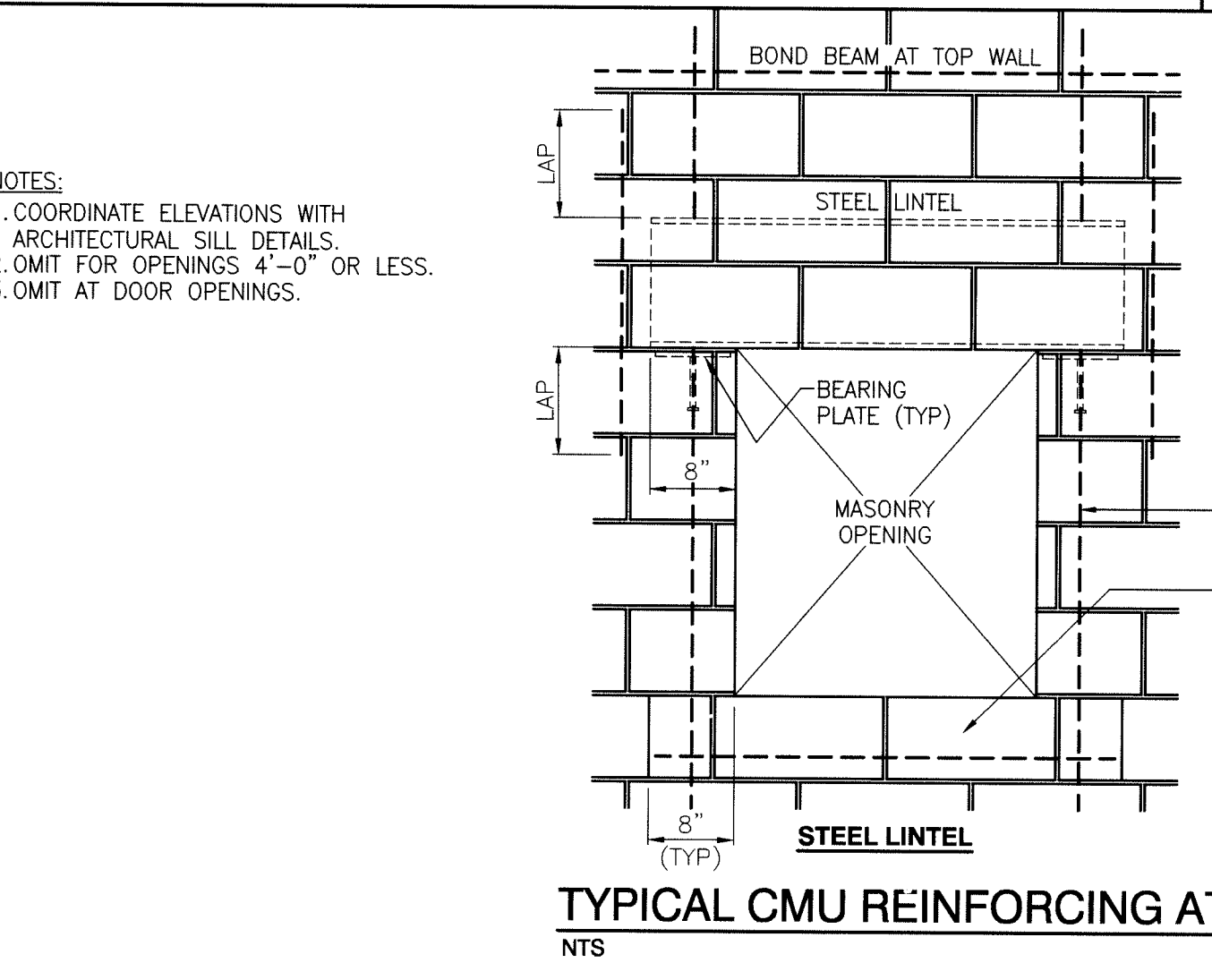
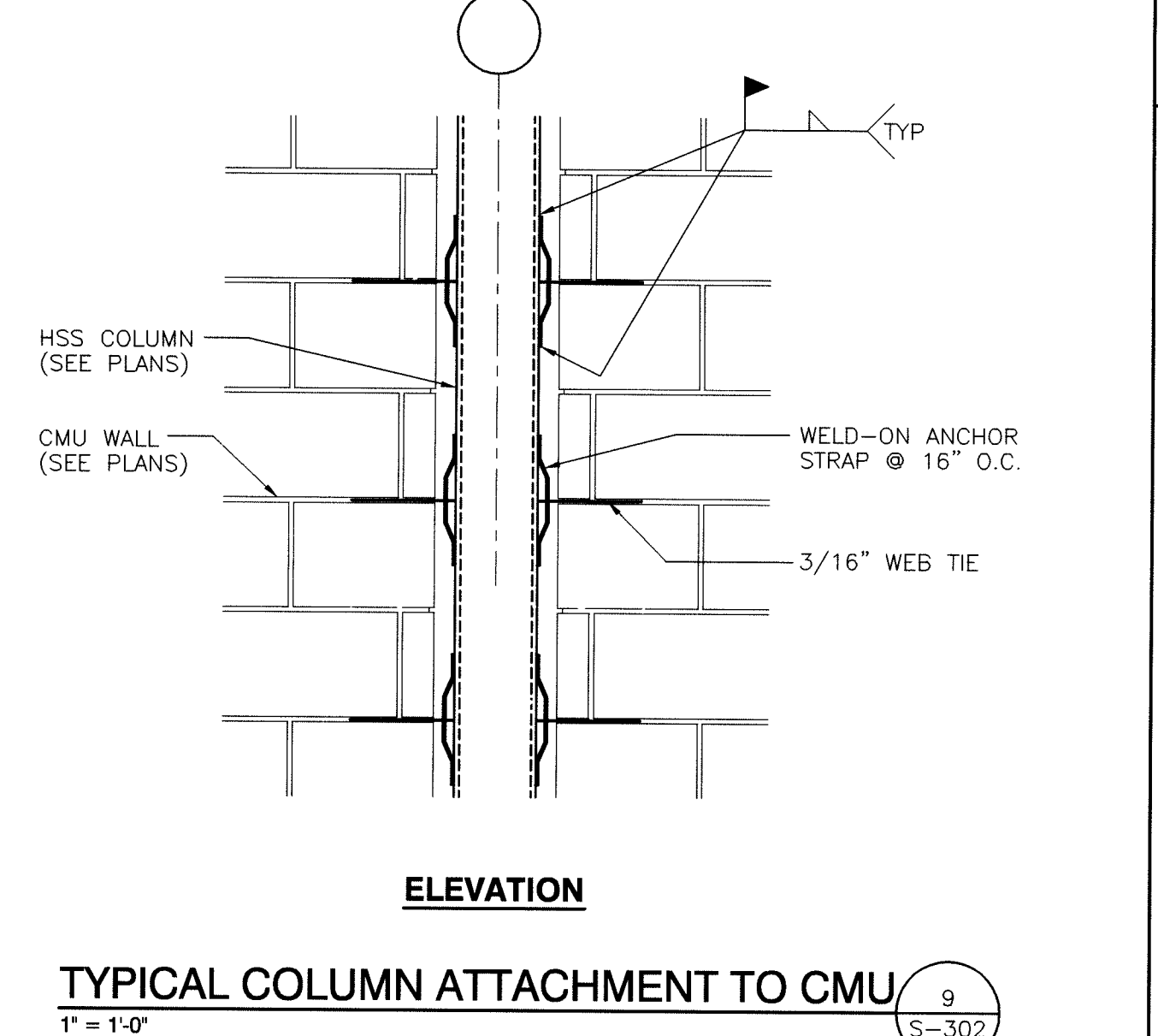
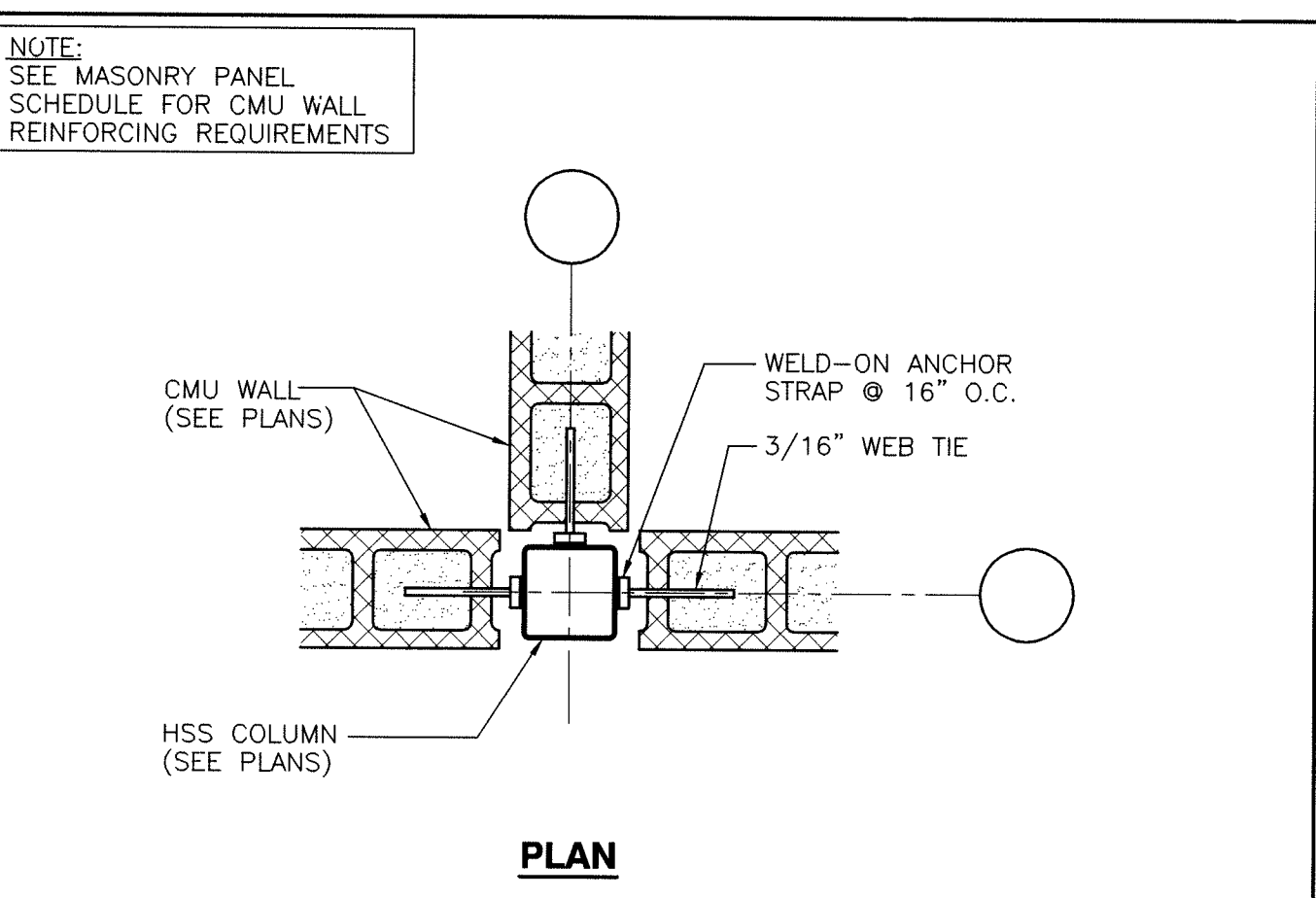
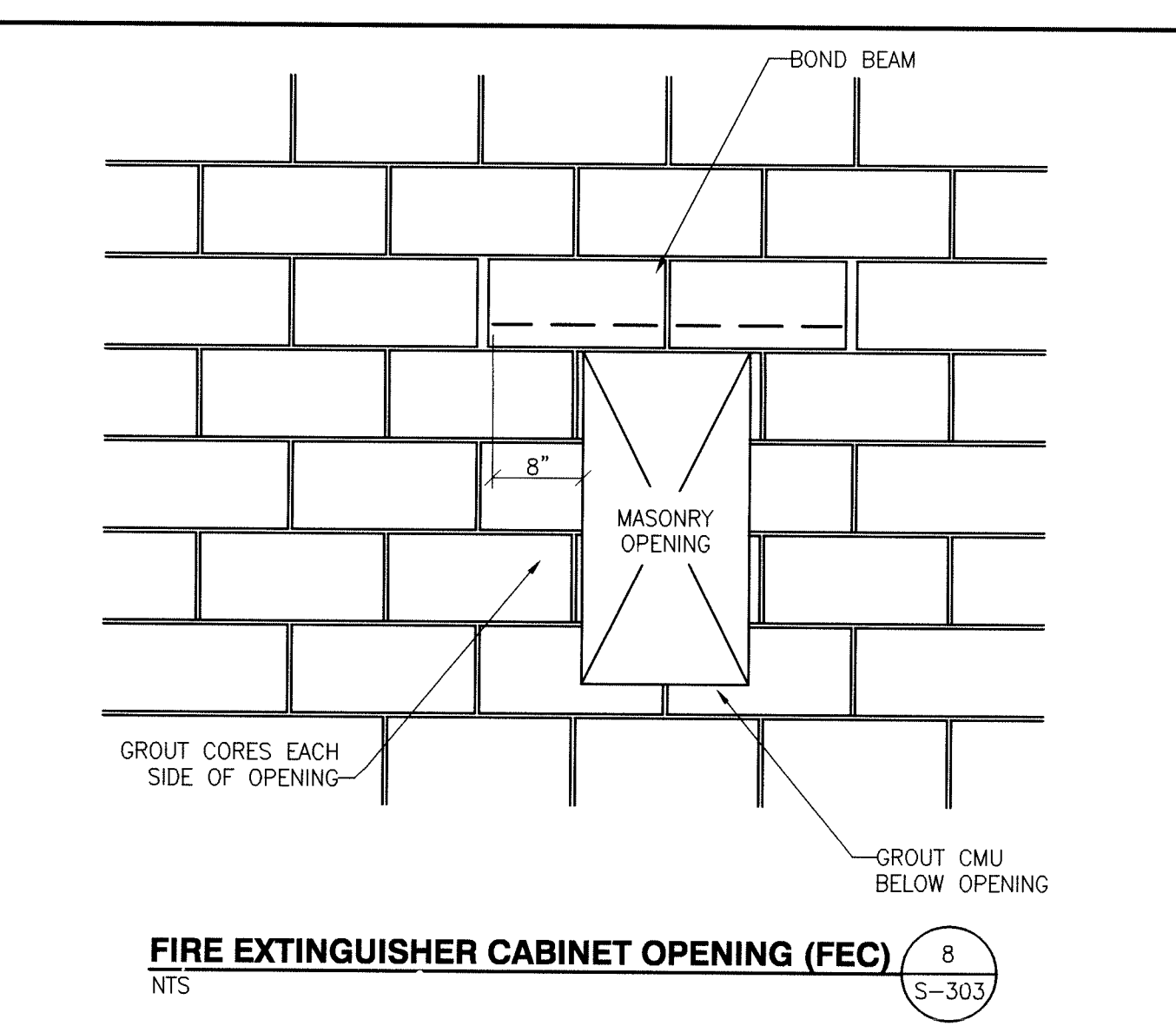
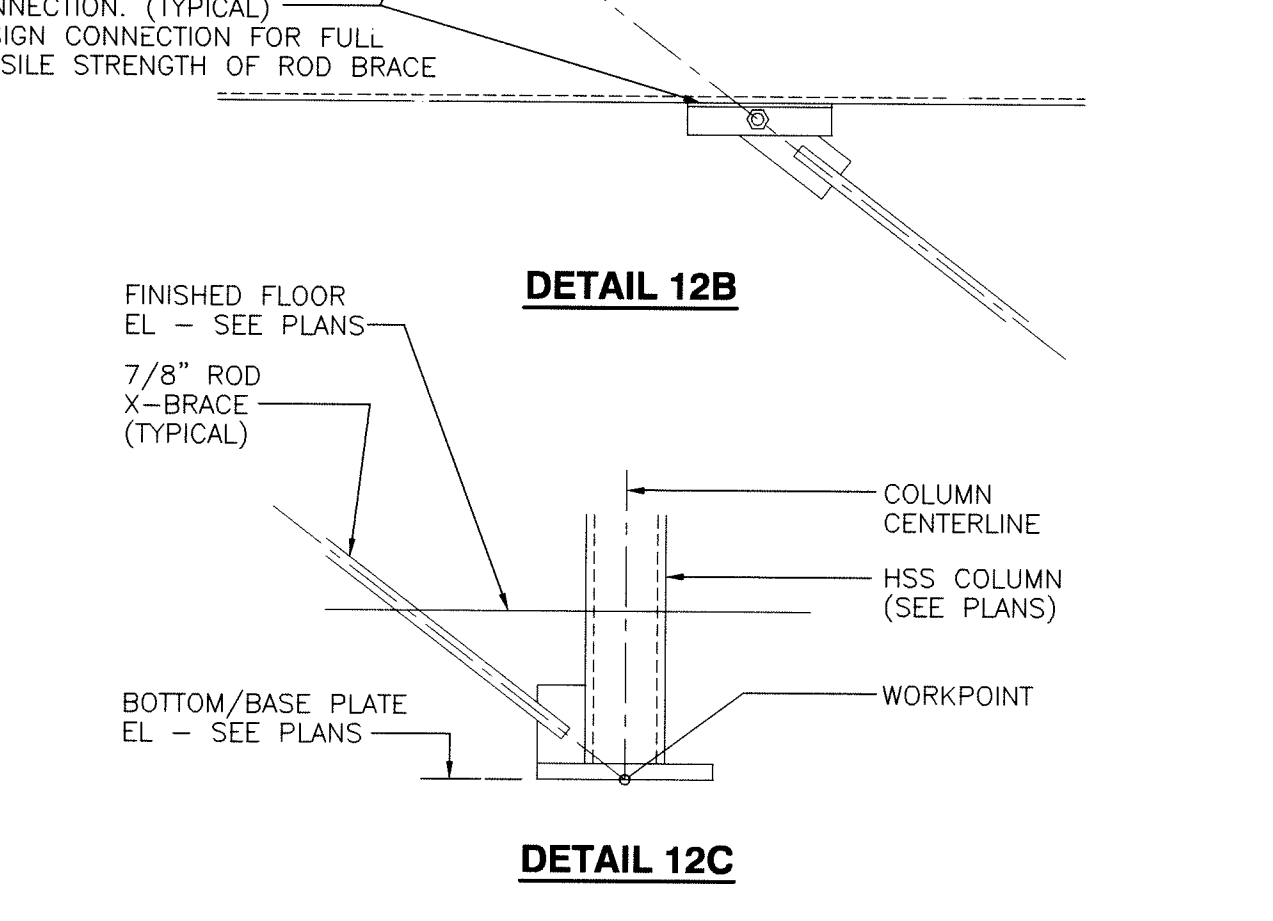
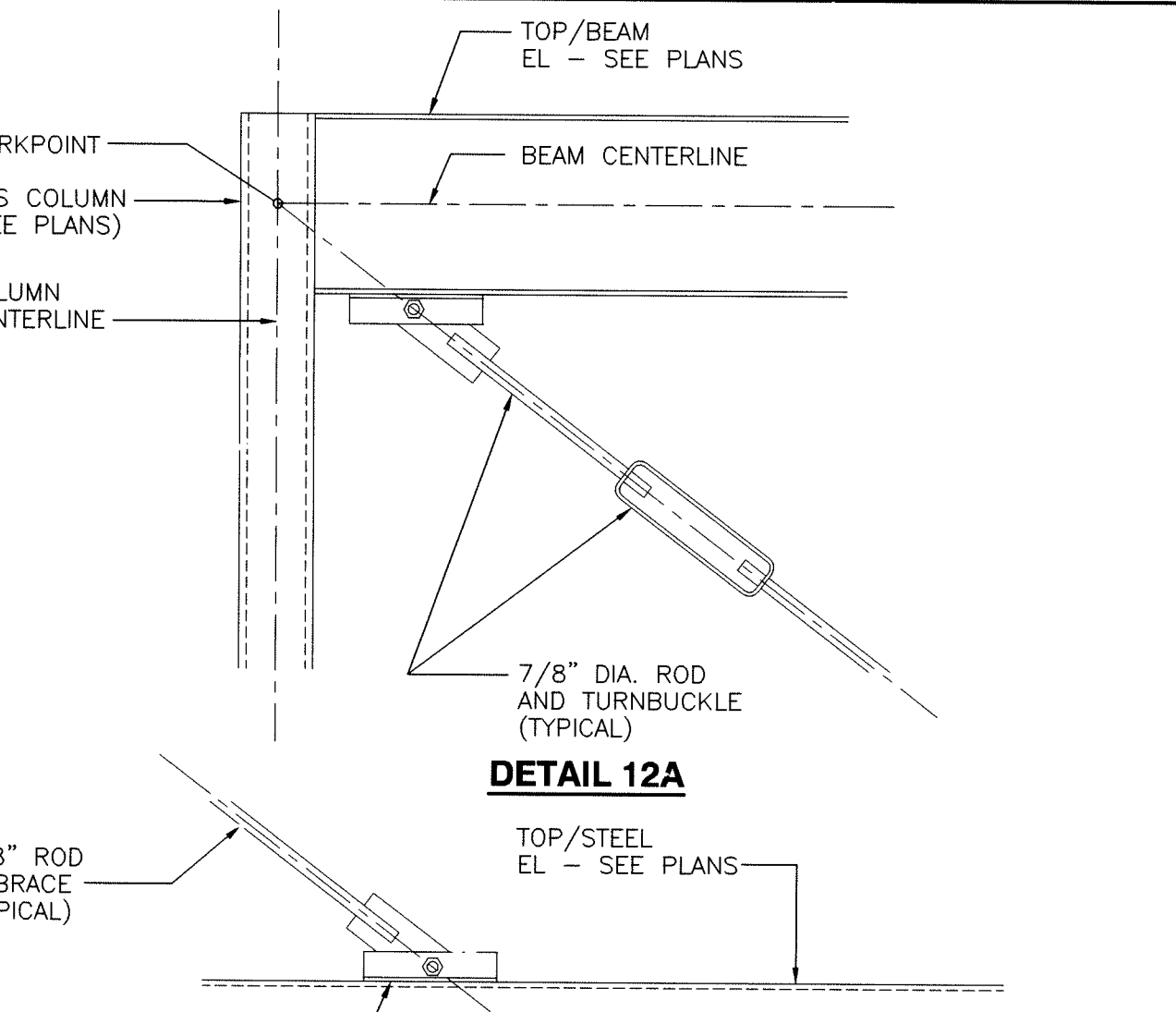
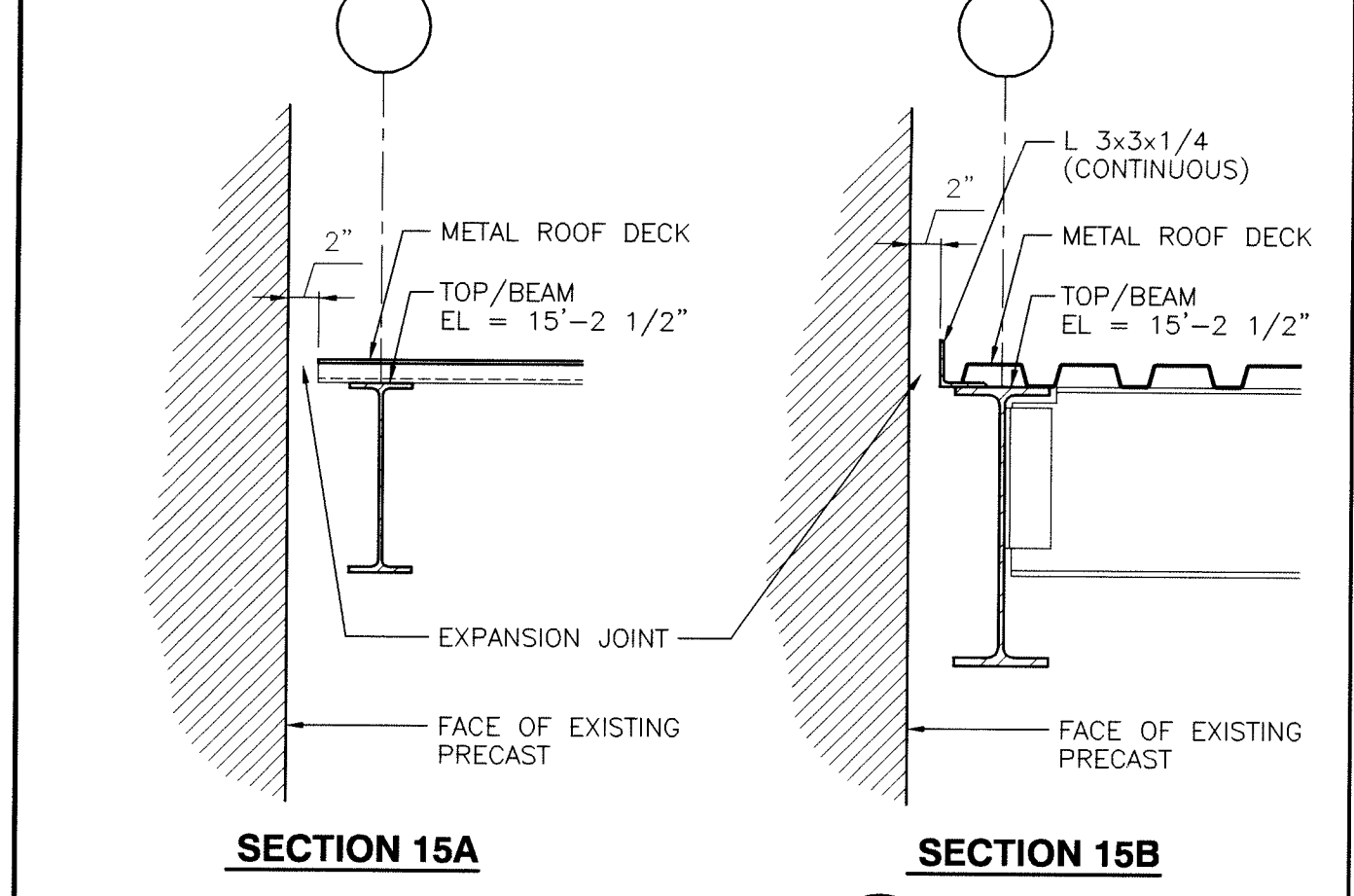
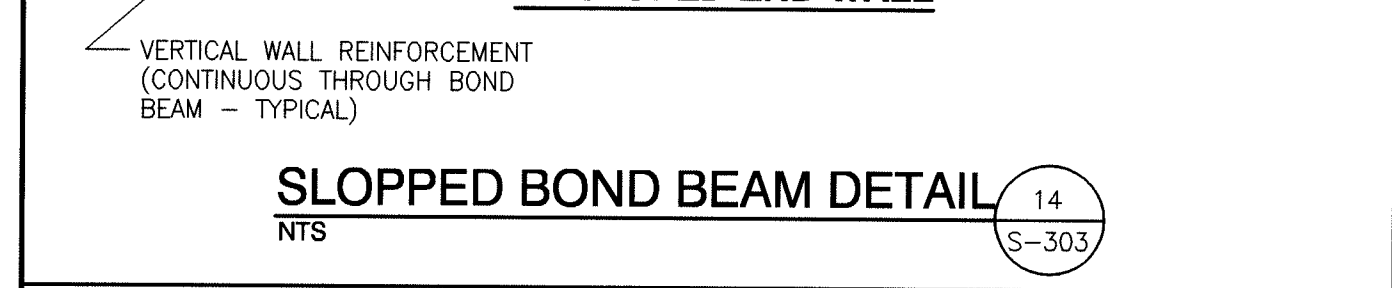
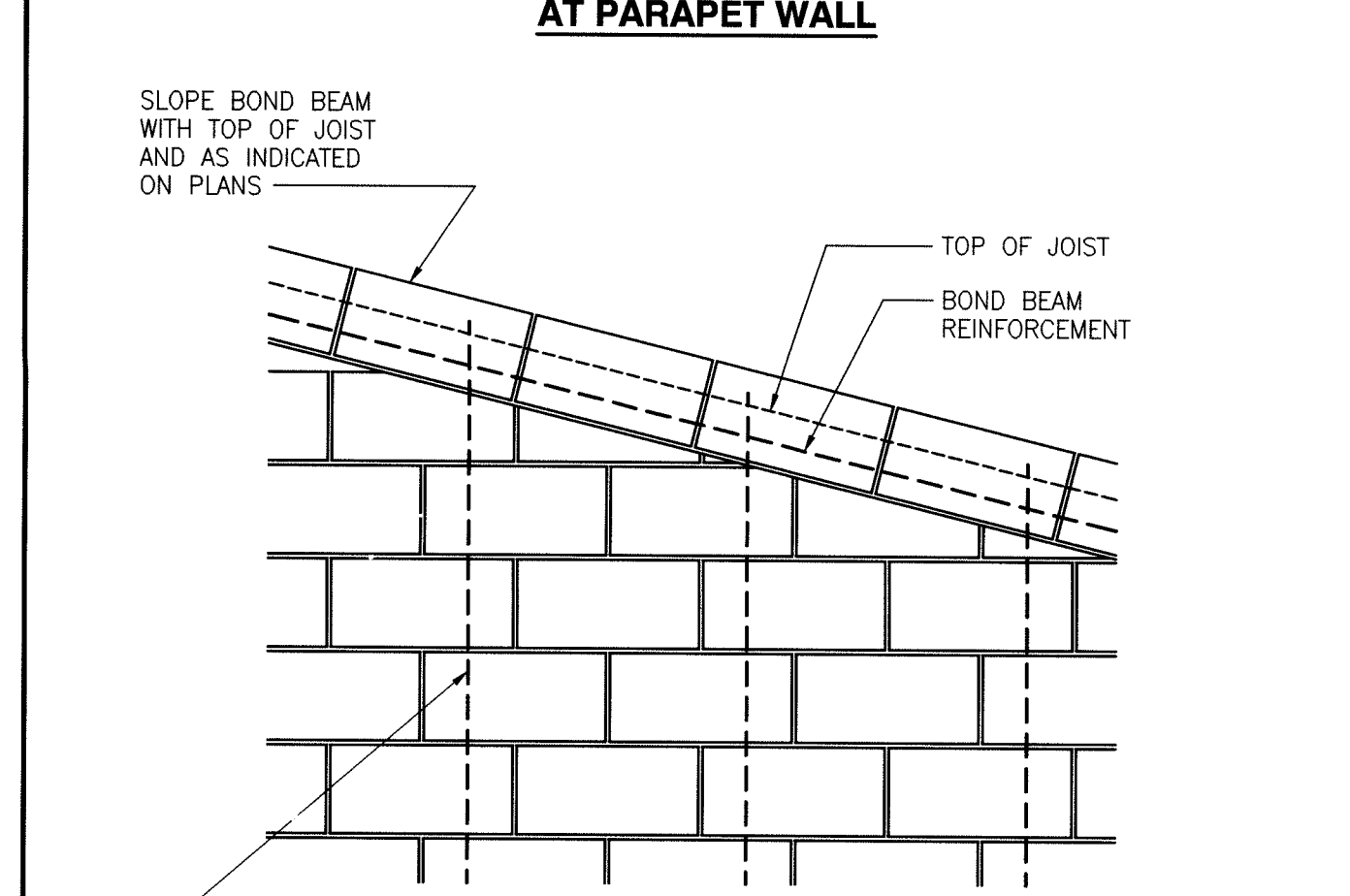
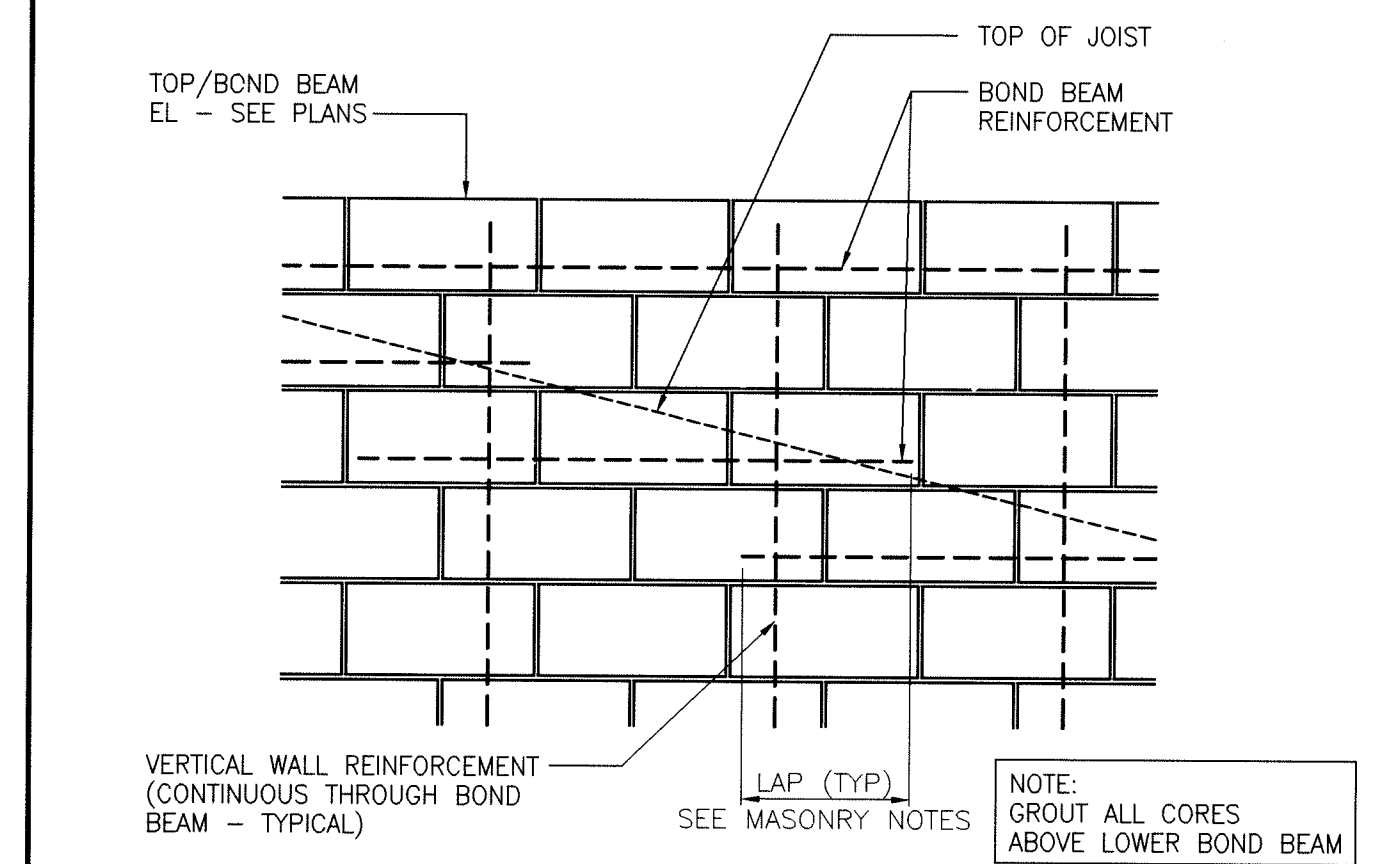
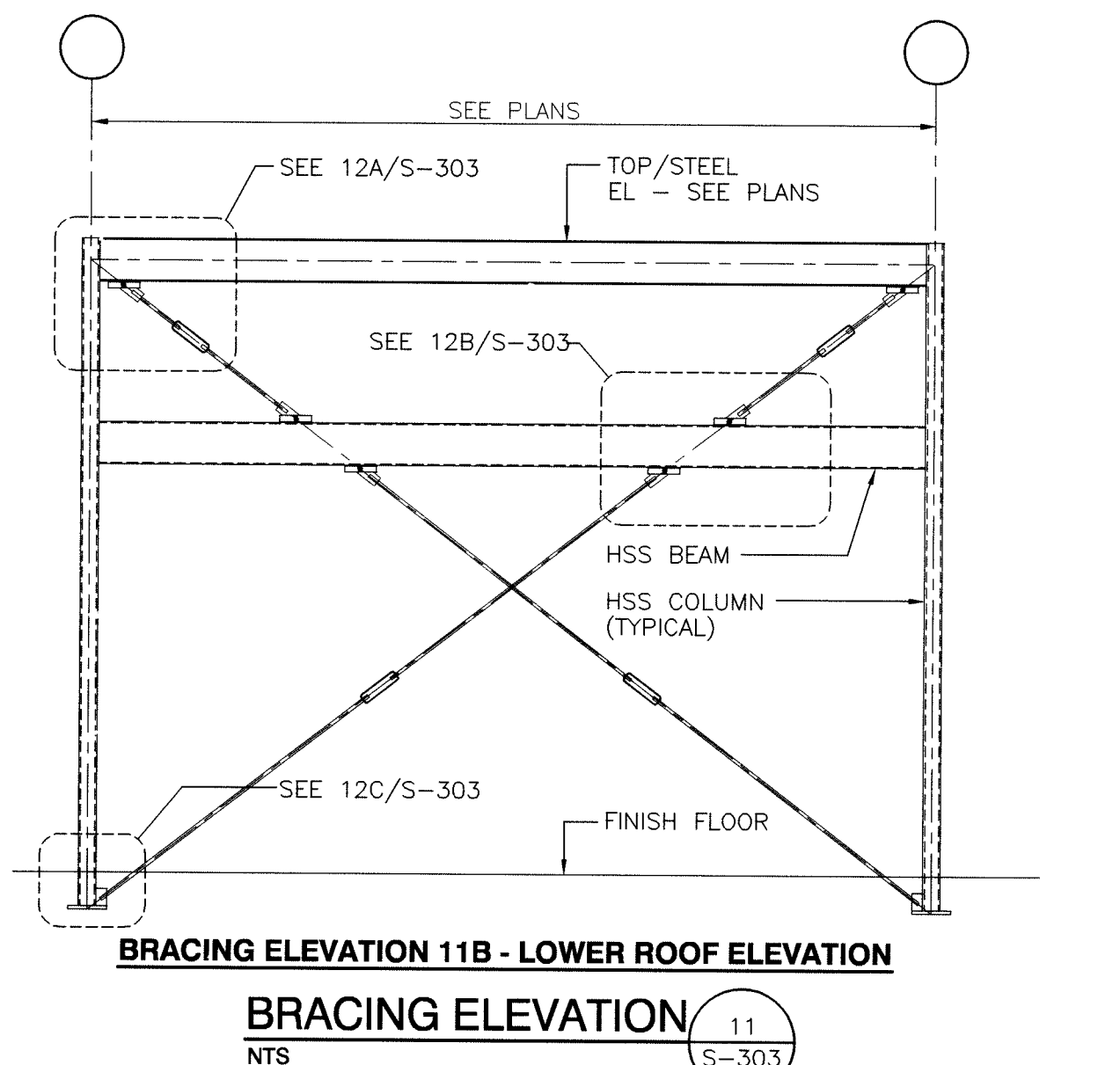
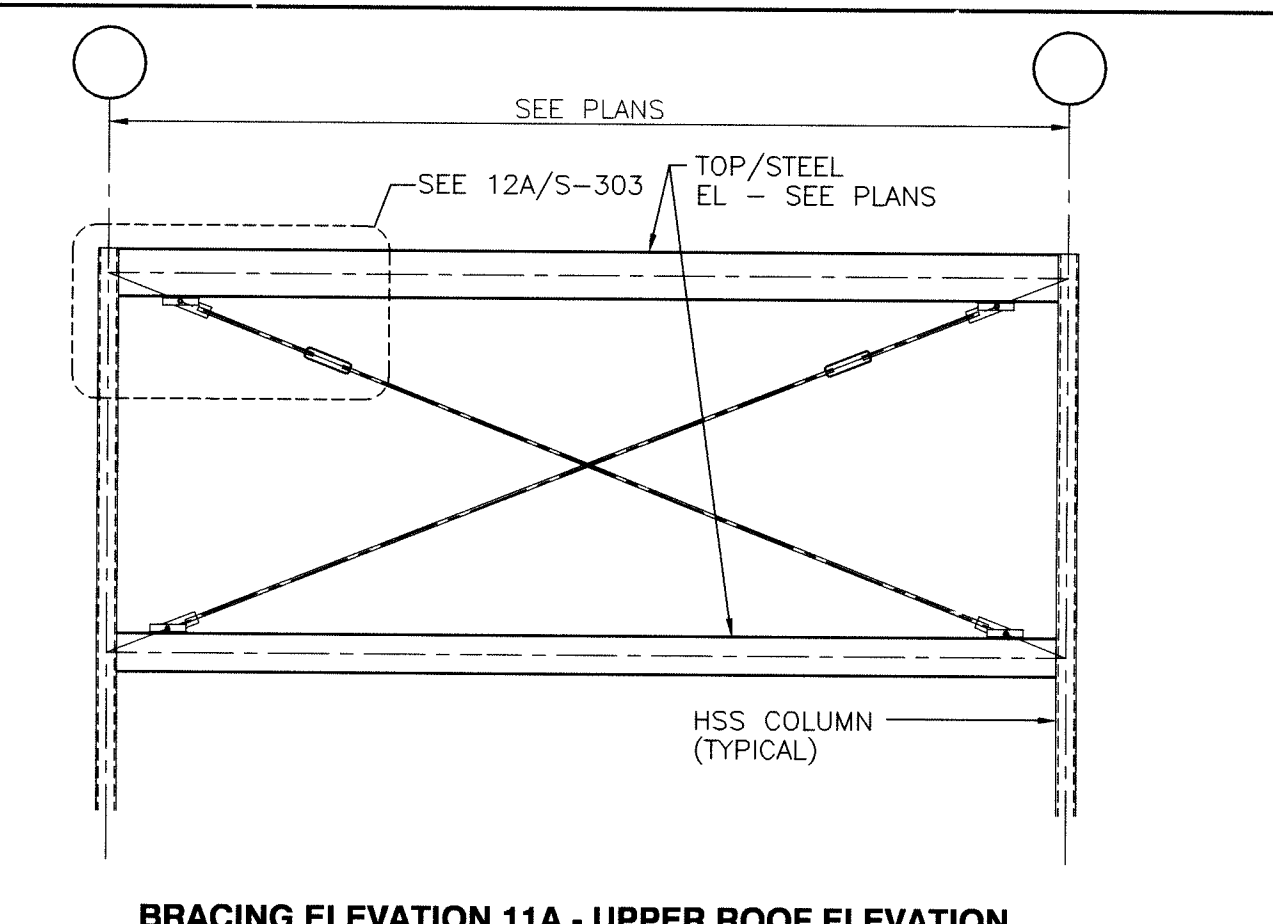
PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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S-302



MARK	SIZE	MARK	SIZE
PT4	HSS4x4x1/4	HG4	HSS4x4x1/4
PT6	HSS6x6x1/4	HG6	HSS6x6x1/4
PT8	HSS8x8x1/4	HG8	HSS8x8x1/4

NOTE:
SEE FRAMING PLANS
FOR MEMBER SIZES



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PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP
MARION COUNTY, INDIANA

TABLE A	
WALL REINFORCING	PROJECTION AND LAP LENGTH
#4	24"
#5	30"
#6	36"
#7	42"
#8	48"

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PROJECT 02-580
DATE 04/21/03
COORDINATED BY KDB/RM
DRAWN BY DLH/MLM
CHECKED BY RM

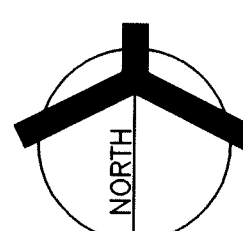
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DRAWING
STRUCTURAL SECTIONS AND DETAILS

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

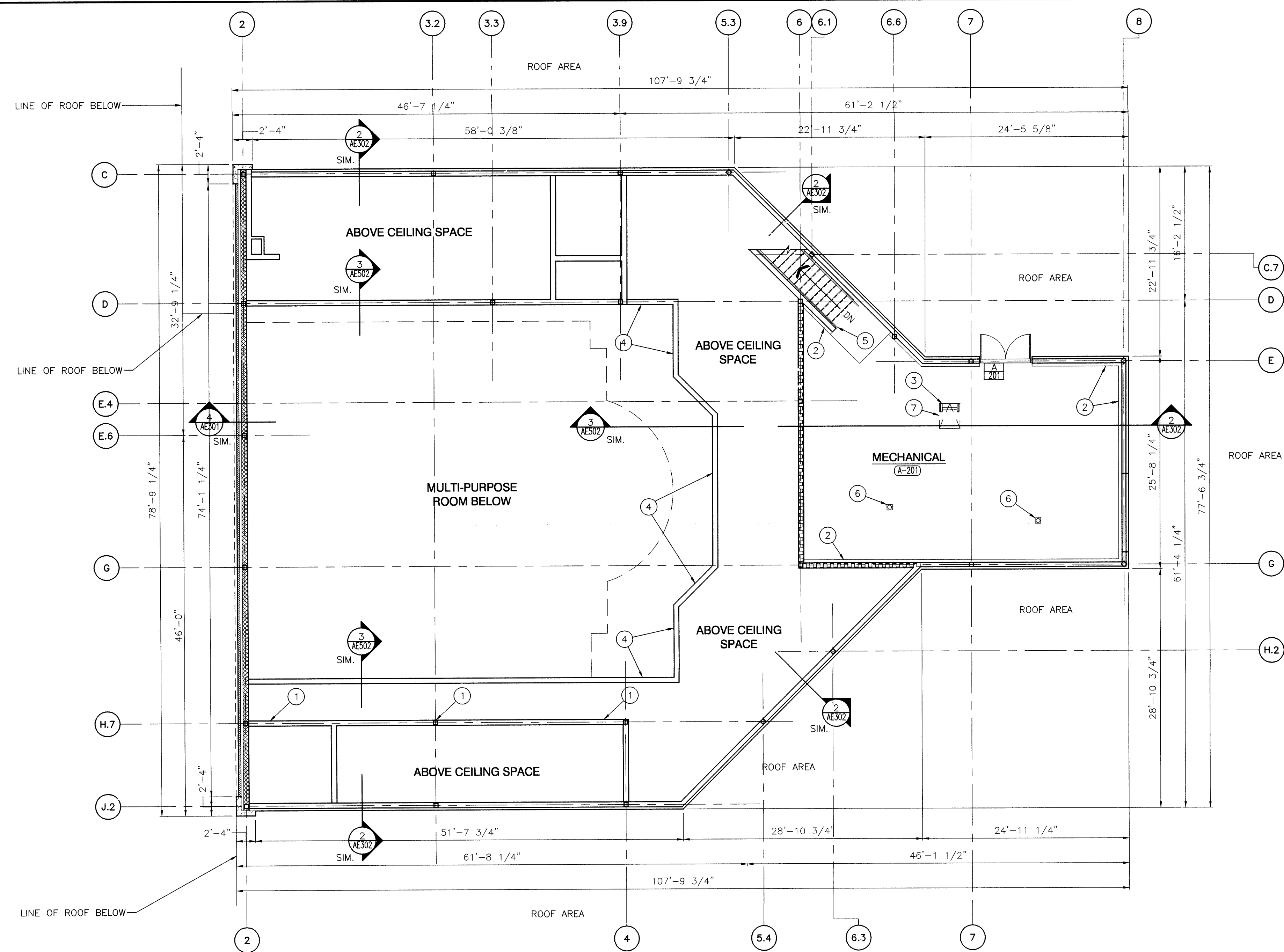
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S-303



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

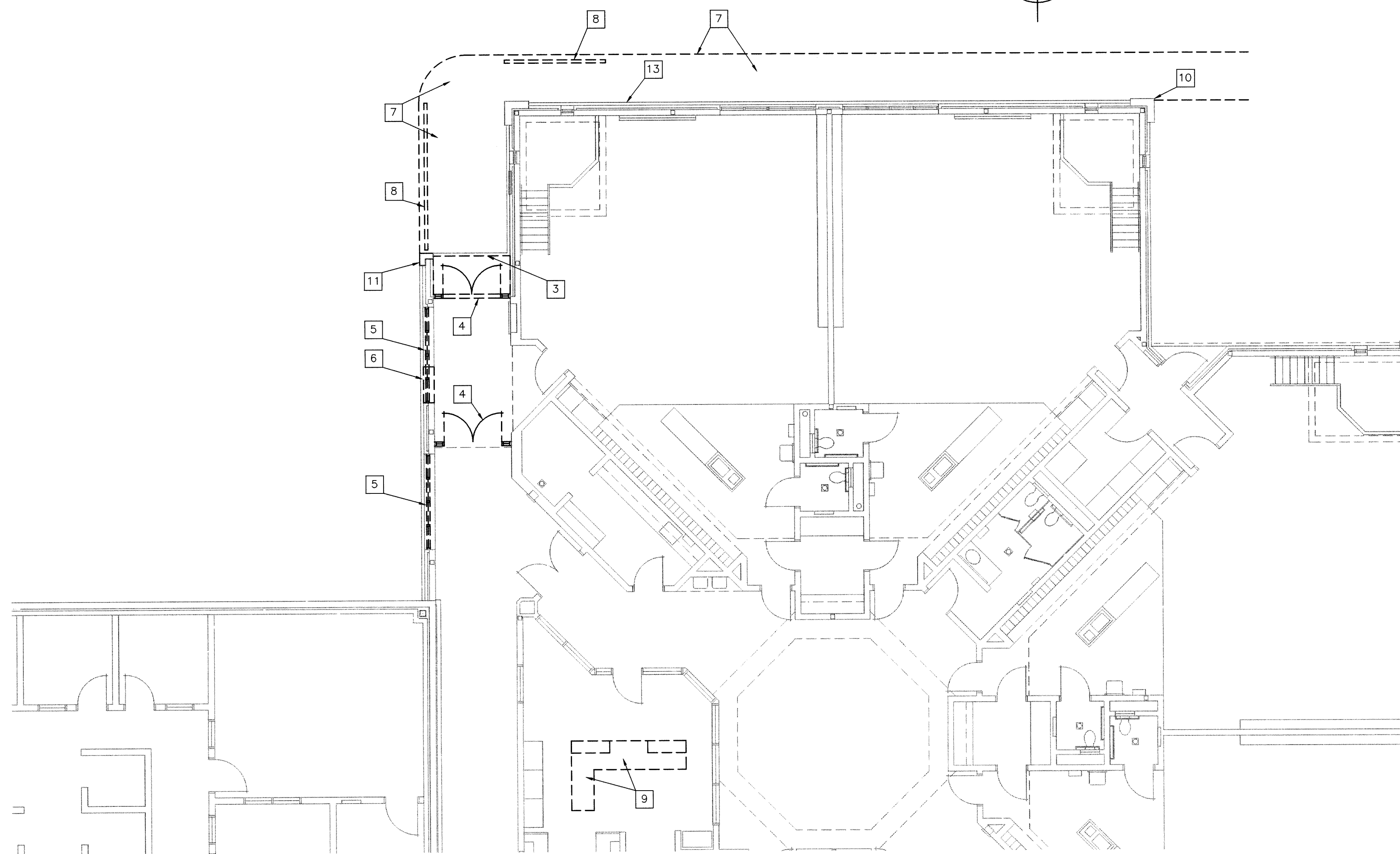
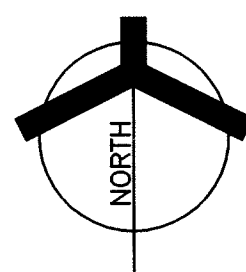
32 SAFETY CUSHION WAINSCOT

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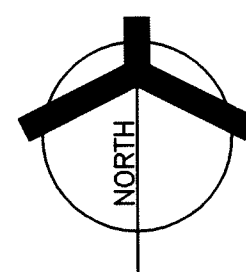
ARCHITECTURAL SECOND FLOOR PLAN

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



DEMOLITION FLOOR PLAN

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



ROOM FINISH SCHEDULE

ROOM NO.	DESCRIPTION	FLOOR FINISH	BASE MATERIAL	HEIGHT	WALL MATERIAL	WINDOW STOOL	CEILING MATERIAL	CEILING HEIGHT	SEE NOTES
A-201	MECHANICAL	SEALED CONC.	—	—	GYP SUM BOARD	P P P P	EXPOSED	—	#2

NOTE:
1. ABBREVIATIONS: F = WALL FABRIC P = PAINT W = WALL COATING SC = SEALED CONCRETE SS = SOLID SURFACE
2. PROVIDE 1" SEMI-RIGID INSULATION ON WALLS FROM TOP OF CURB TO UNDERSIDE OF ROOF DECK ABOVE.

GENERAL NOTES:

FOR GENERAL NOTES, MATERIAL INDICATIONS, LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC. SEE FIRST FLOOR LIFE SAFETY PLAN.

SEE DEMOLITION SHEETS BELOW FOR ADDITIONAL PATCHING AND REPAIR WORK.

MISCELLANEOUS CASEWORK ELEVATION SYMBOL — SEE SHEET A601 THRU A604 FOR MISCELLANEOUS CASEWORK ELEVATIONS.

ALL INTERIOR WALLS SHALL BE TYPE "P" UNLESS NOTED OTHERWISE. SEE G1004 FOR WALL TYPE REFERENCE.

PLAN NOTES: (APPLY TO THIS SHEET ONLY)

- 10'-0" HIGH LIGHTWEIGHT BLOCK WALL BELOW.
- 4" HIGH CONCRETE CURB
- ALUMINUM LADDER
- LINE OF BULKHEAD
- STEEL PIPE HANDRAIL
- FLOOR DRAINS: SEE PLUMBING DRAWINGS.
- 2'-6" x 3'-0" ROOF HATCH
- 9'-6" W x 5'-0" H LOUVER: SEE MECHANICAL DRAWINGS

10'-0" HIGH LIGHTWEIGHT BLOCK WALL BELOW.

4" HIGH CONCRETE CURB

ALUMINUM LADDER

LINE OF BULKHEAD

STEEL PIPE HANDRAIL

FLOOR DRAINS: SEE PLUMBING DRAWINGS.

2'-6" x 3'-0" ROOF HATCH

9'-6" W x 5'-0" H LOUVER: SEE MECHANICAL DRAWINGS

GENERAL DEMOLITION NOTES:

FOR GENERAL NOTES, MATERIAL INDICATIONS, LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC. SEE FIRST FLOOR LIFE SAFETY PLAN.

UNLESS NOTED OTHERWISE ON THIS SHEET, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL WORK INDICATED ON THIS SHEET.

ALL EXISTING CONSTRUCTION AFFECTED BY THE DEMOLITION WORK INDICATED ON THIS SHEET SHALL BE PATCHED AND REPAIRED AS REQUIRED TO RECEIVE NEW FINISHES. ALL PATCHING AND REPAIR WORK RELATED TO THE DEMOLITION OR SPECIFICALLY NOTED ON THIS SHEET SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WHO WOULD INSTALL THE PATCHED OR REPAIRED MATERIAL IF IT WERE IN NEW CONSTRUCTION.

CONTRACTORS ENCOUNTERING EXISTING MATERIAL WHICH IS SUSPECTED OF CONTAINING ASBESTOS SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND THE OWNER'S REPRESENTATIVE.

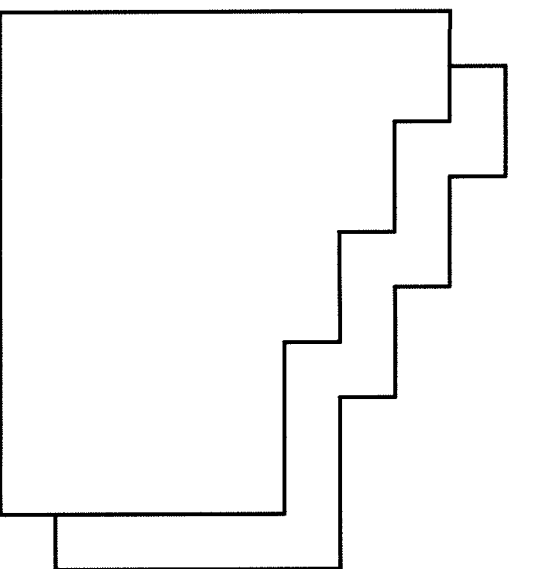
REMOVE EXISTING MATERIAL AS REQUIRED FOR NEW INSTALLATION.

EXISTING DRAIN TO BE REMOVE PRIOR TO NEW CONSTRUCTION. SEE PLUMBING DRAWINGS.

DEMOLITION PLAN NOTES:

(APPLY TO THIS SHEET ONLY)

- REMOVE CASEWORK IN ITS ENTIRETY.
- REMOVE LOW HEIGHT WALL IN ITS ENTIRETY.
- REMOVE CONCRETE STOOP IN ITS ENTIRETY PRIOR TO NEW CONSTRUCTION. REMOVE FOUNDATION TO A MINIMUM 8" BELOW NEW FINISH FLOOR.
- REMOVE EXISTING DOORS, FRAMES, AND ALL RELATED ACCESSORIES AND RETURN TO OWNER.
- REMOVE WINDOW SASH AND GLAZING.
- REMOVE WALL CONSTRUCTION BELOW WINDOW OPENING AS REQUIRED FOR NEW DOOR OPENING.
- REMOVE FOUNDATION WALL TO A MINIMUM OF 8" BELOW NEW FINISH FLOOR.
- REMOVE CONCRETE WALK. SEE CIVIL DRAWINGS.
- REMOVE GUARDRAIL.
- REMOVE RECEPTION COUNTER AND SAVE FOR REINSTALLATION IN RECEPTION A-104. SEE SHEET A-101.
- REMOVE AND RETURN SECURITY CAMERA TO OWNER FOR REINSTALLATION AT NEW LOCATION.
- REMOVE PRECAST CORNER PANEL.
- REMOVE SINK AND ALL PIPING PLUG, PLUG AND/OR CAP BELOW AND/OR BEHIND ALL NEW FINISH SURFACES.
- REMOVE BUILDING SIGN. SAVE FOR REINSTALLATION AT NEW LOCATION. SEE A-101 FOR NEW LOCATION.



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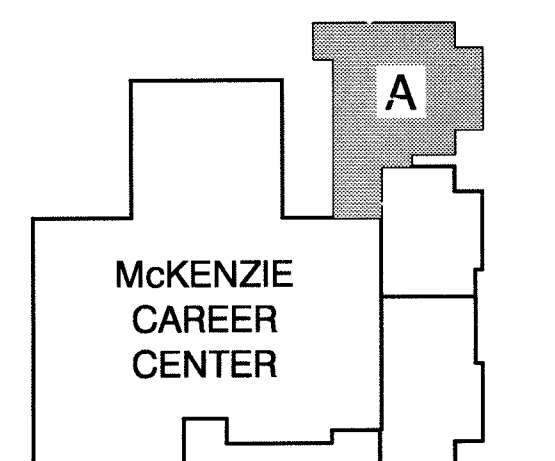
PROJECT

**LAWRENCE
CENTRALIZED
KINDERGARTEN**

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



KEY PLAN

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PROJECT

02-580

DATE

04/21/03

COORDINATED BY

JDH

DRAWN BY

SCP

CHECKED BY

JDH

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DRAWING
UNIT "A" SECOND FLOOR
PLAN & DEMOLITION PLAN

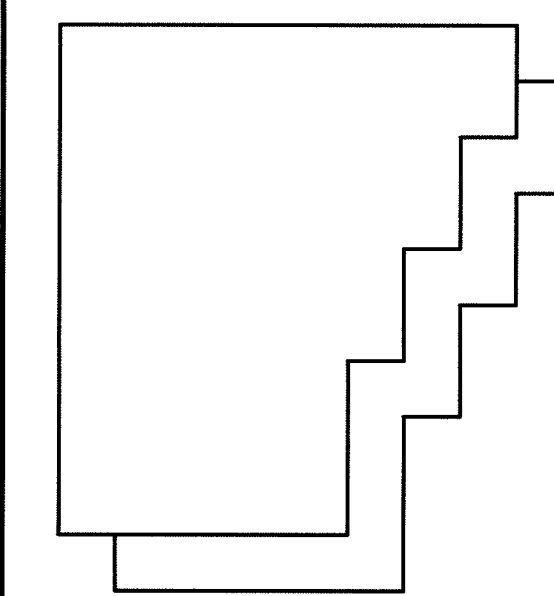
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LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

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SHEET

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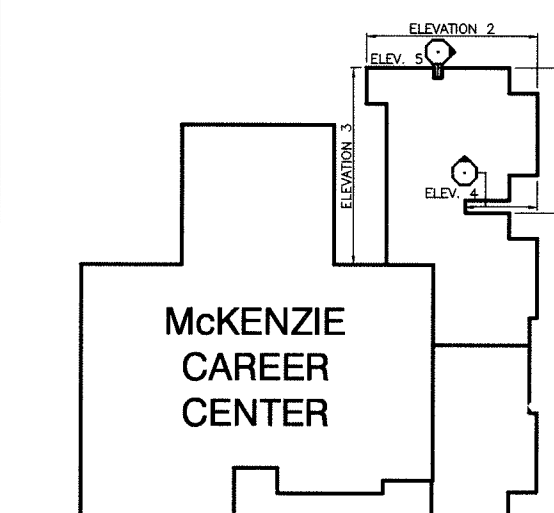
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LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

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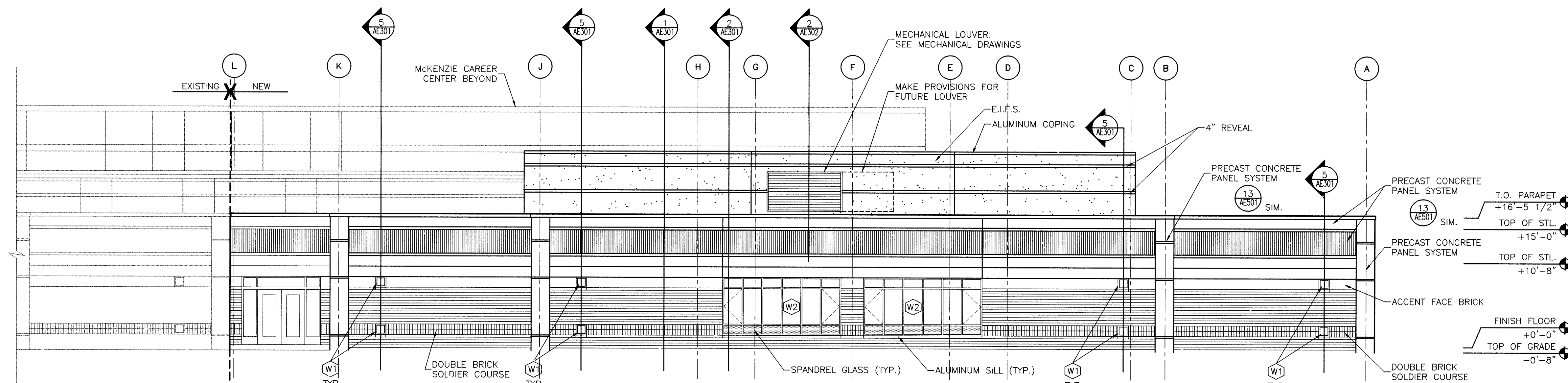
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DRAWING
EXTERIOR ELEVATIONS

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

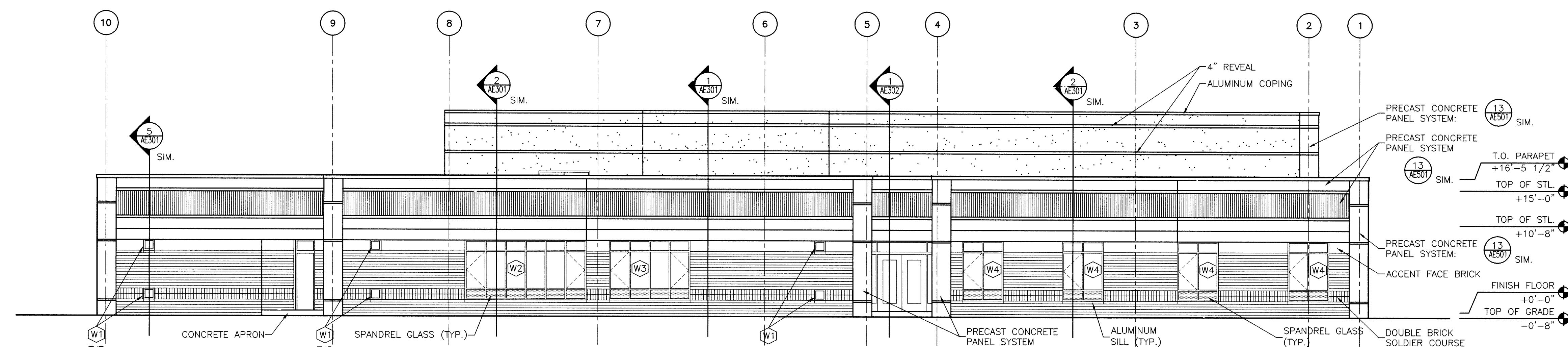
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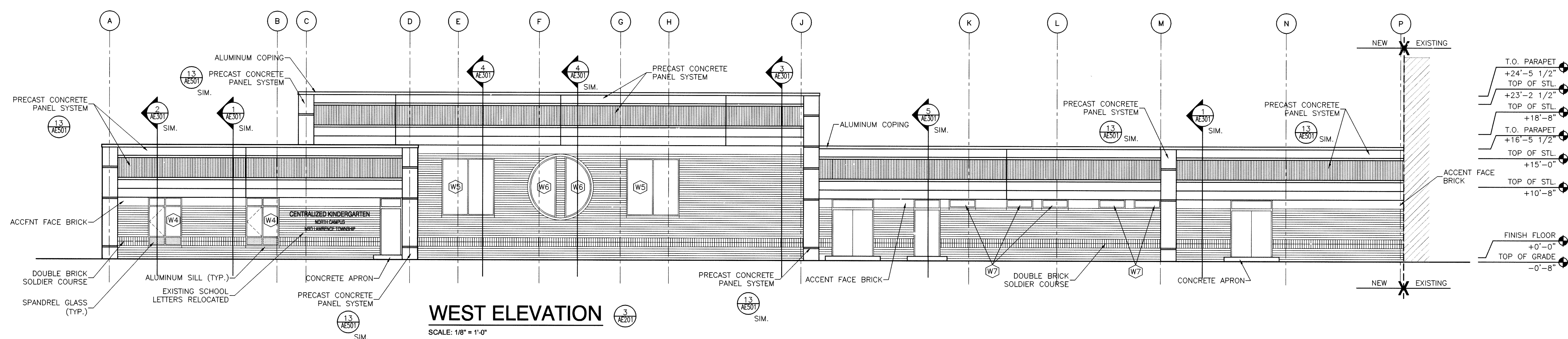
EAST ELEVATION

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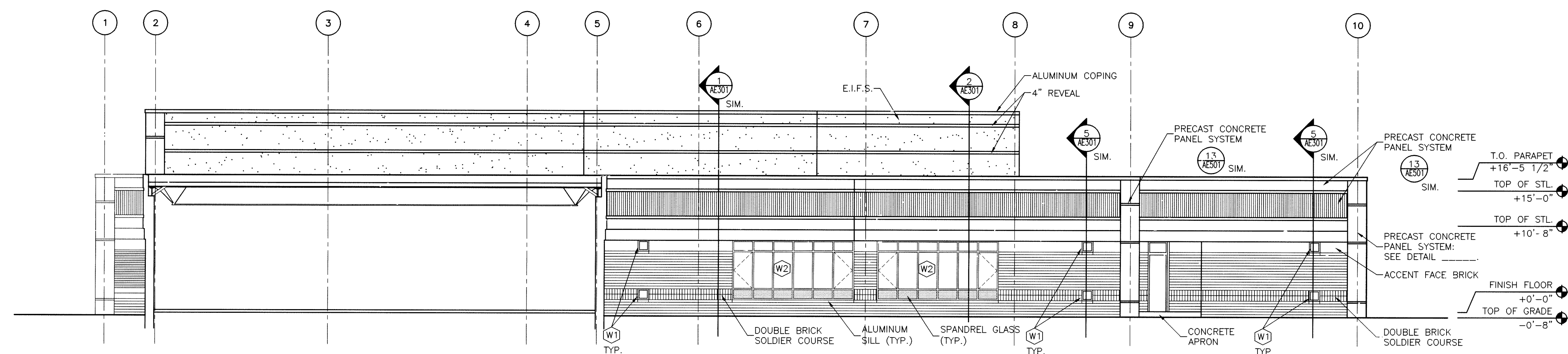
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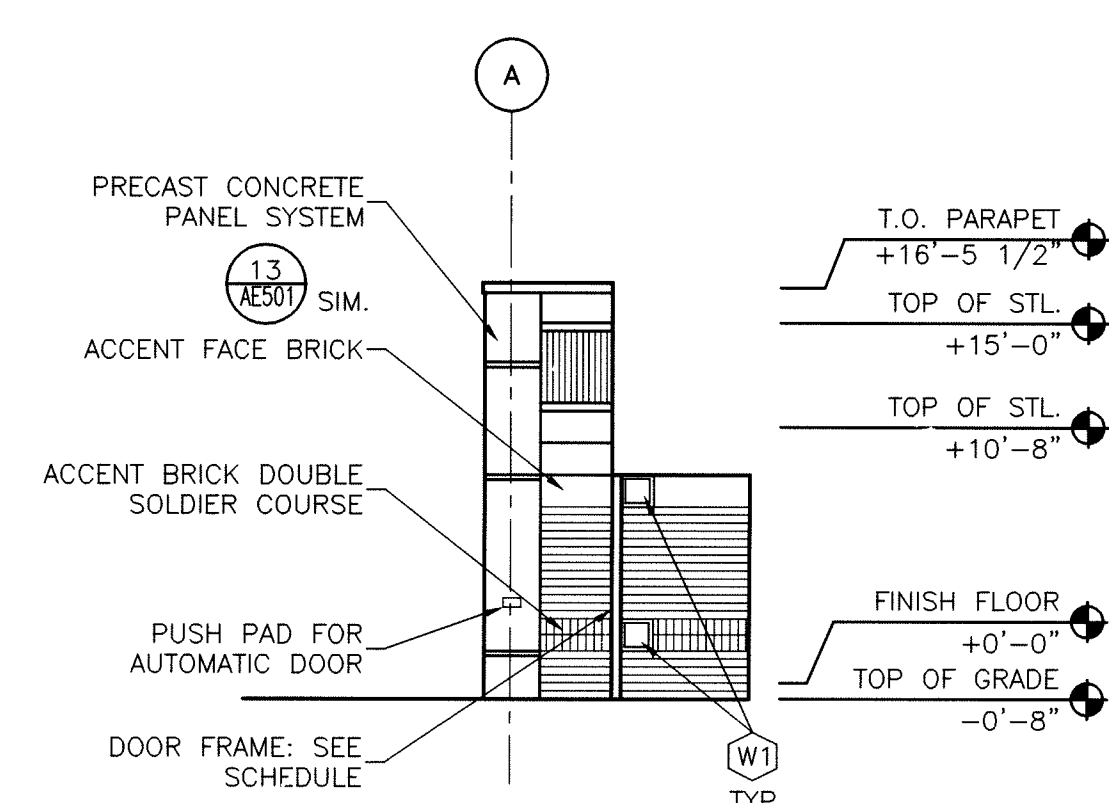
WEST ELEVATION

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



SOUTH ELEVATION

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



EXTERIOR ELEVATION

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

PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

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PROJECT
02-580

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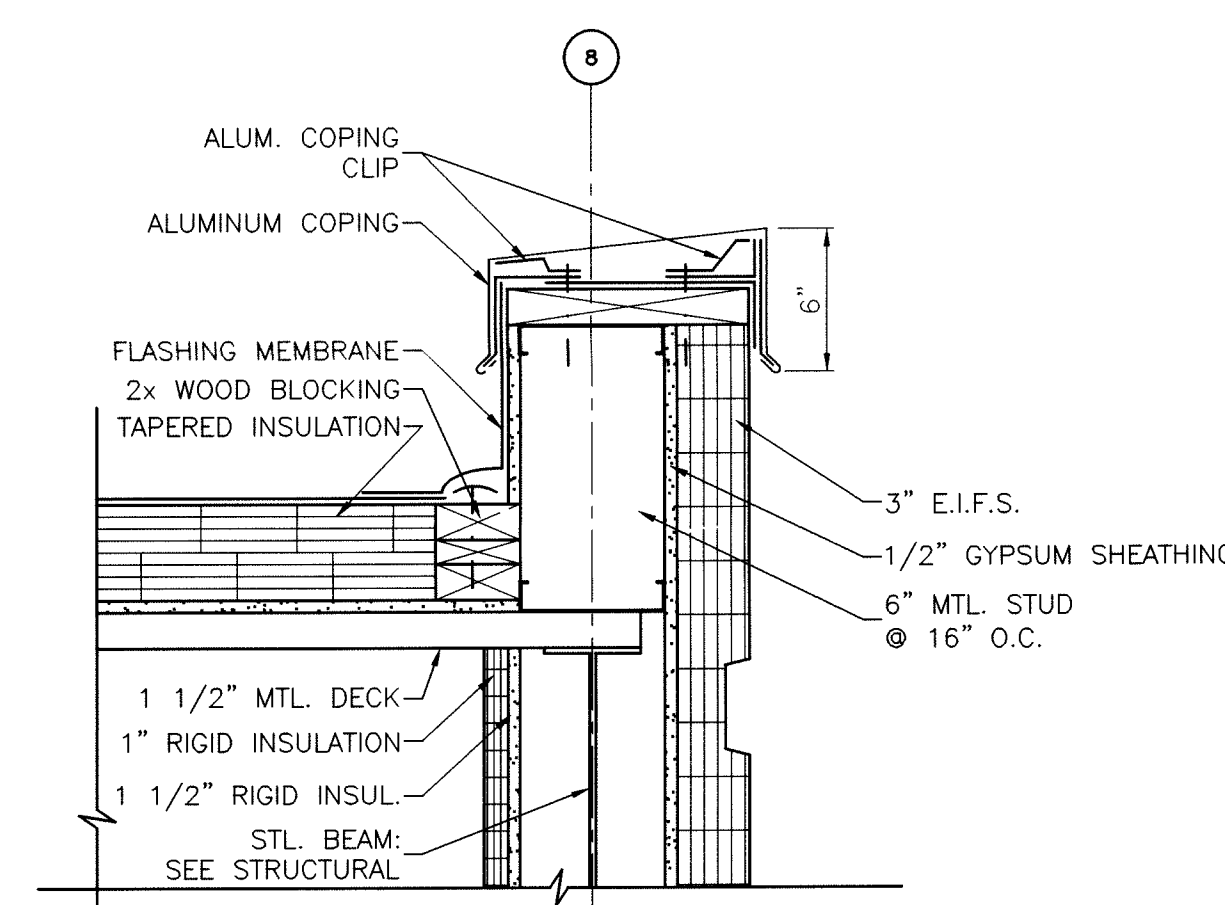
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DRAWING
WALL SECTIONS

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

GIBALTAR DESIGN SHEET

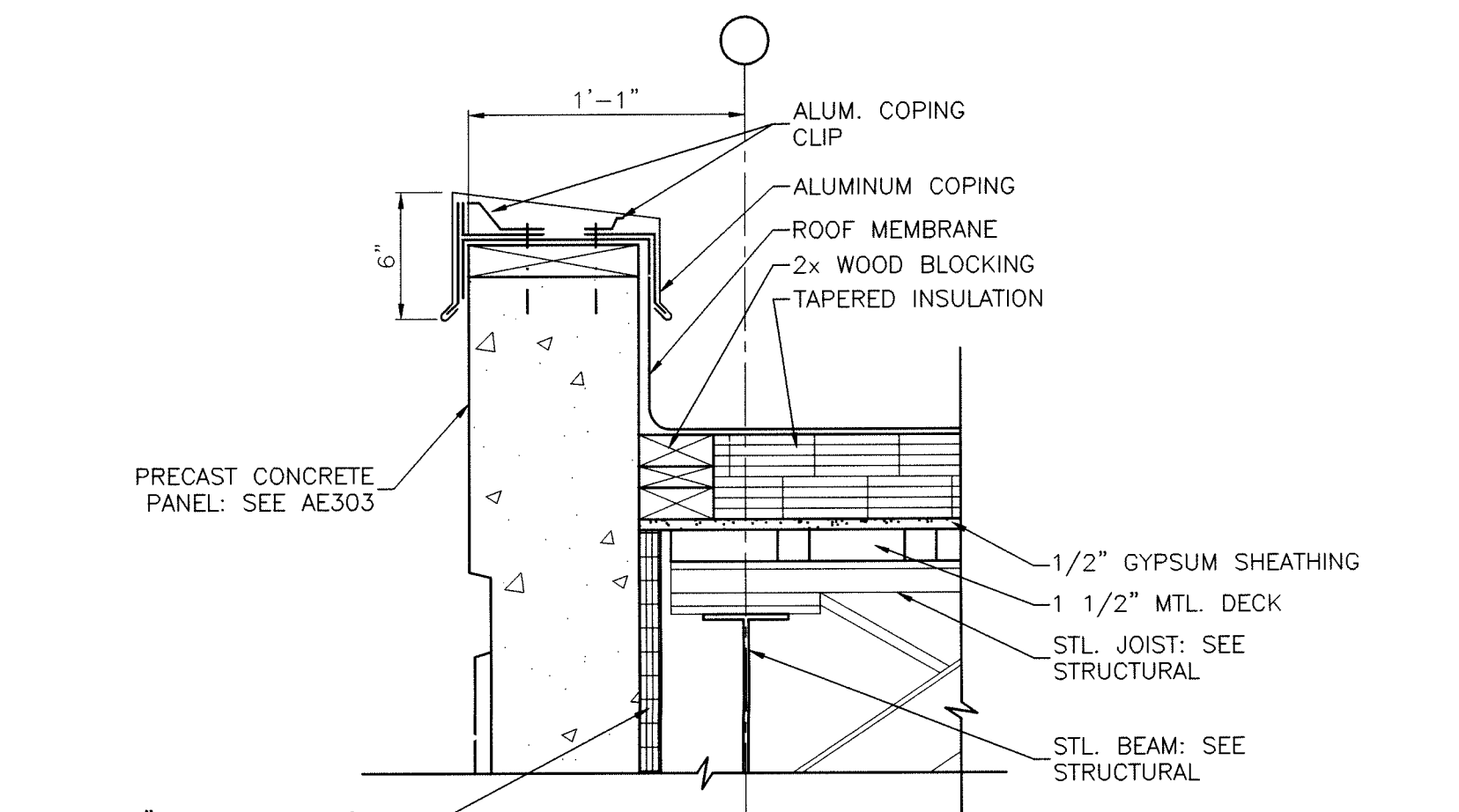
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PARAPET DETAIL

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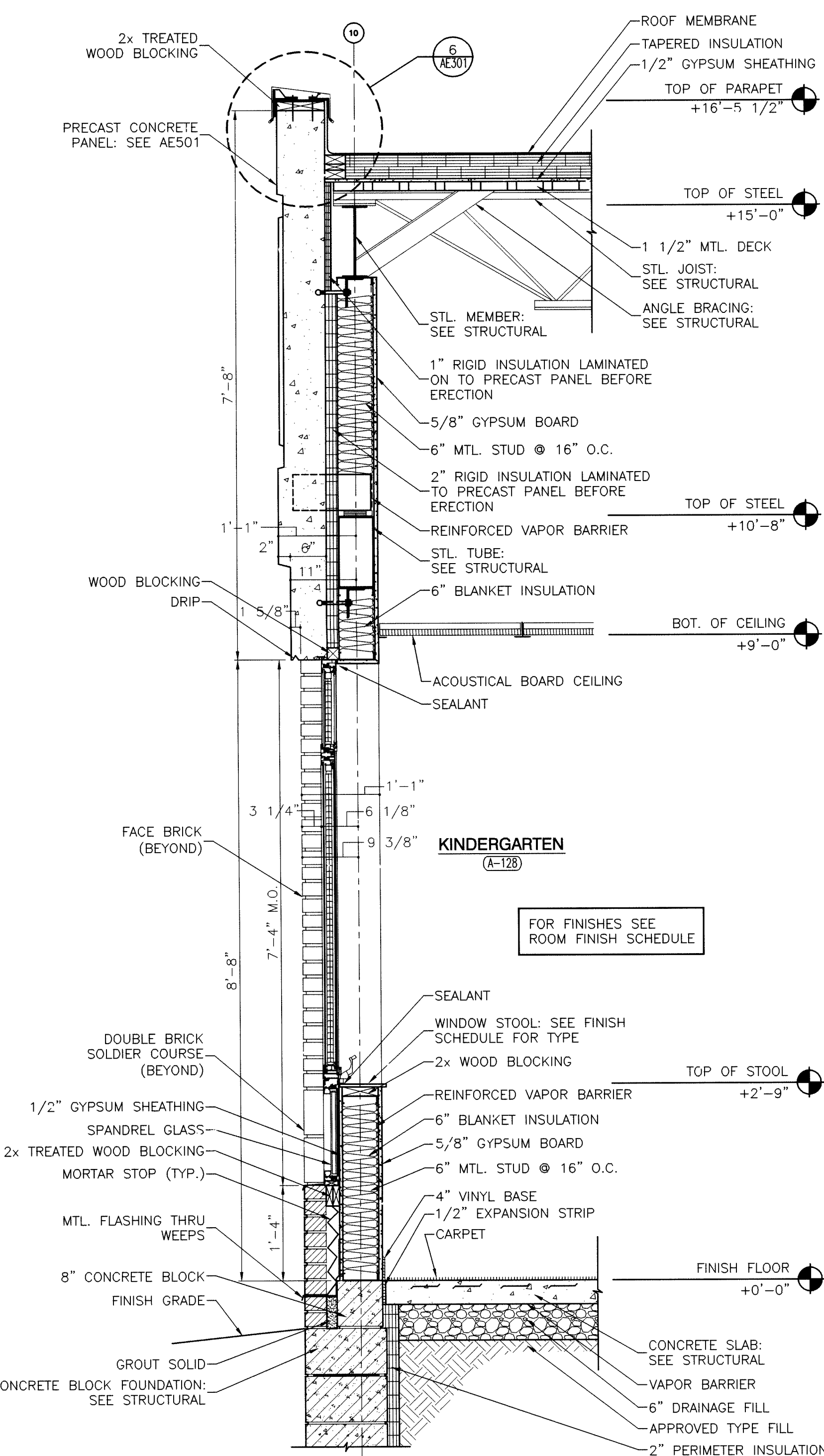
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AE301



PARAPET DETAIL

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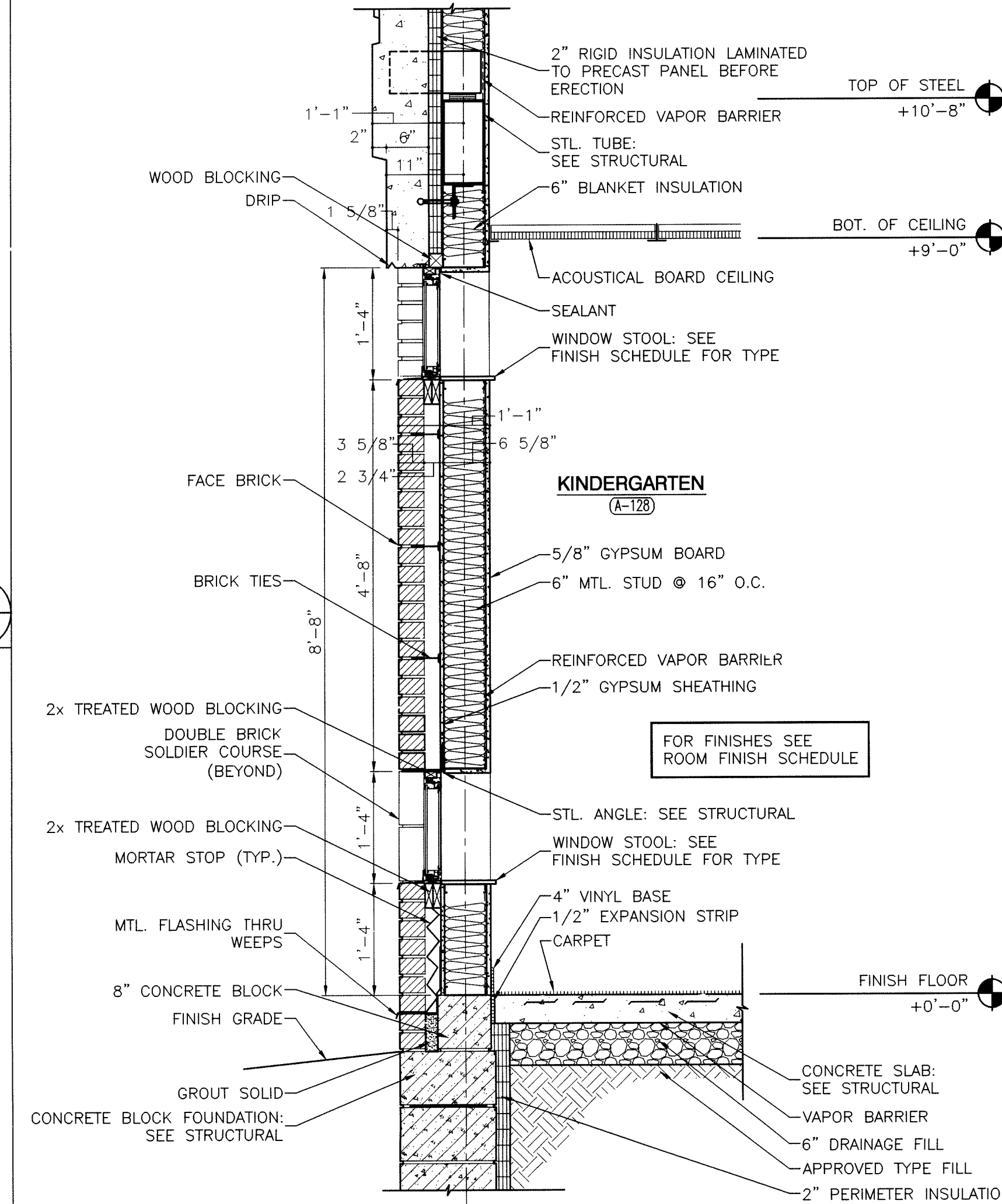
6
AE301



WALL SECTION

SCALE: 3/4" = 1'-0"

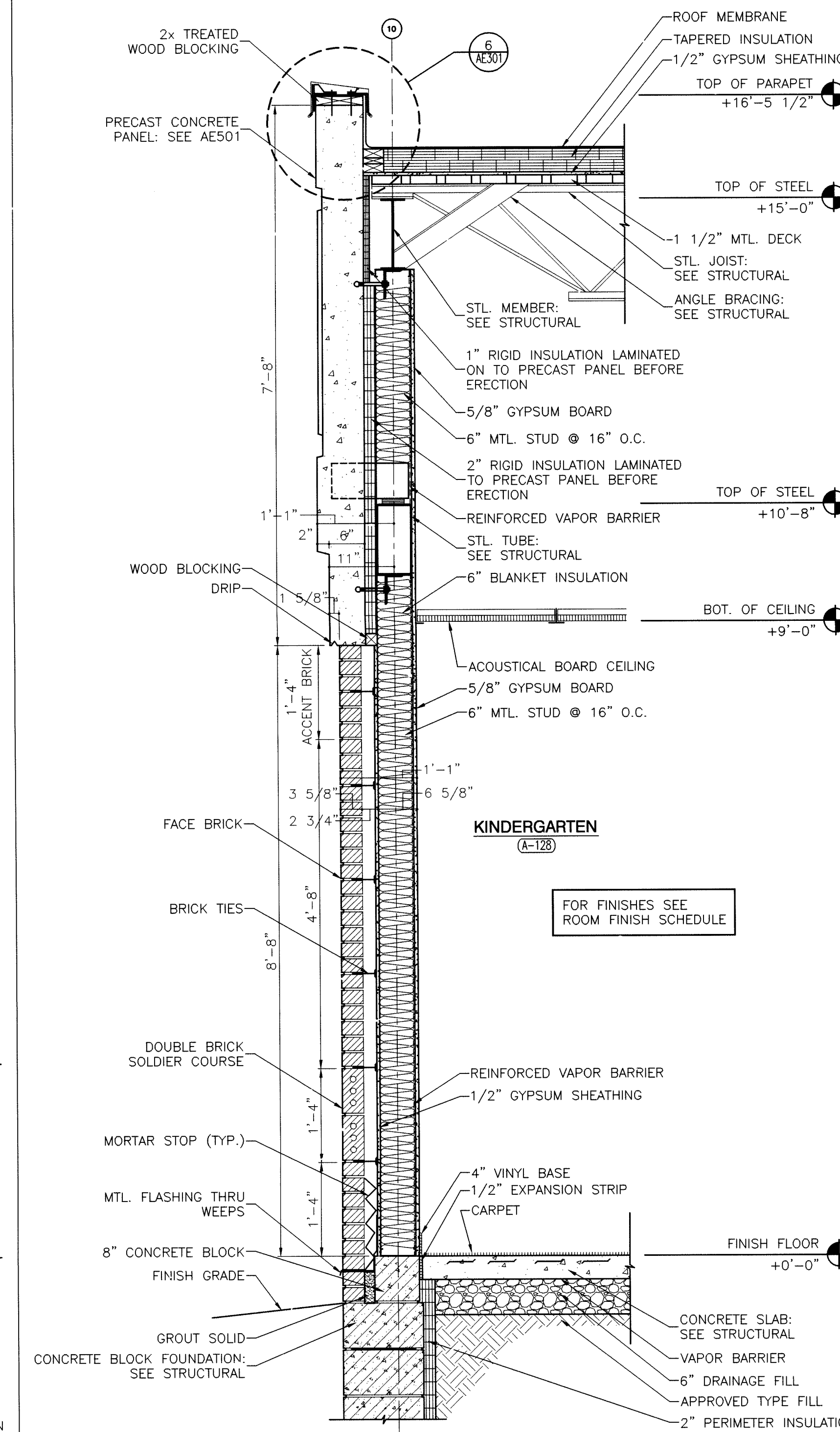
2
AE301



WALL SECTION

SCALE: 3/4" = 1'-0"

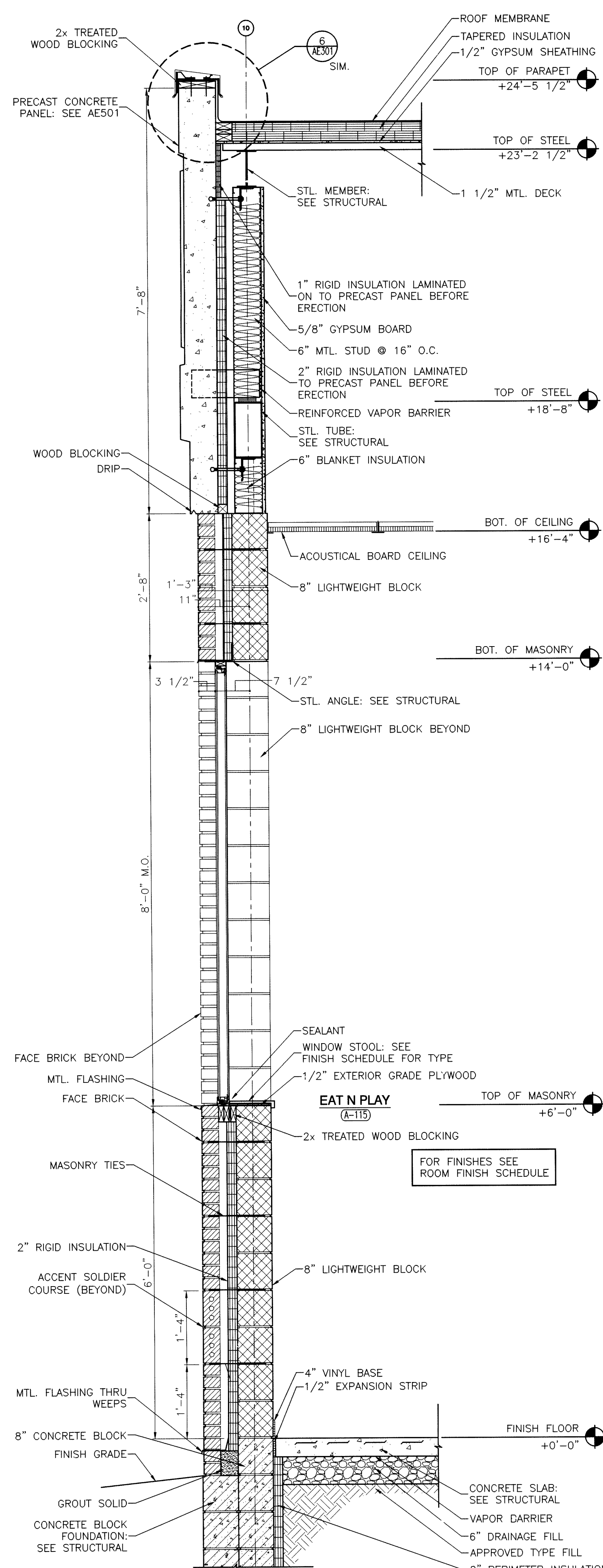
5
AE301



WALL SECTION

SCALE: 3/4" = 1'-0"

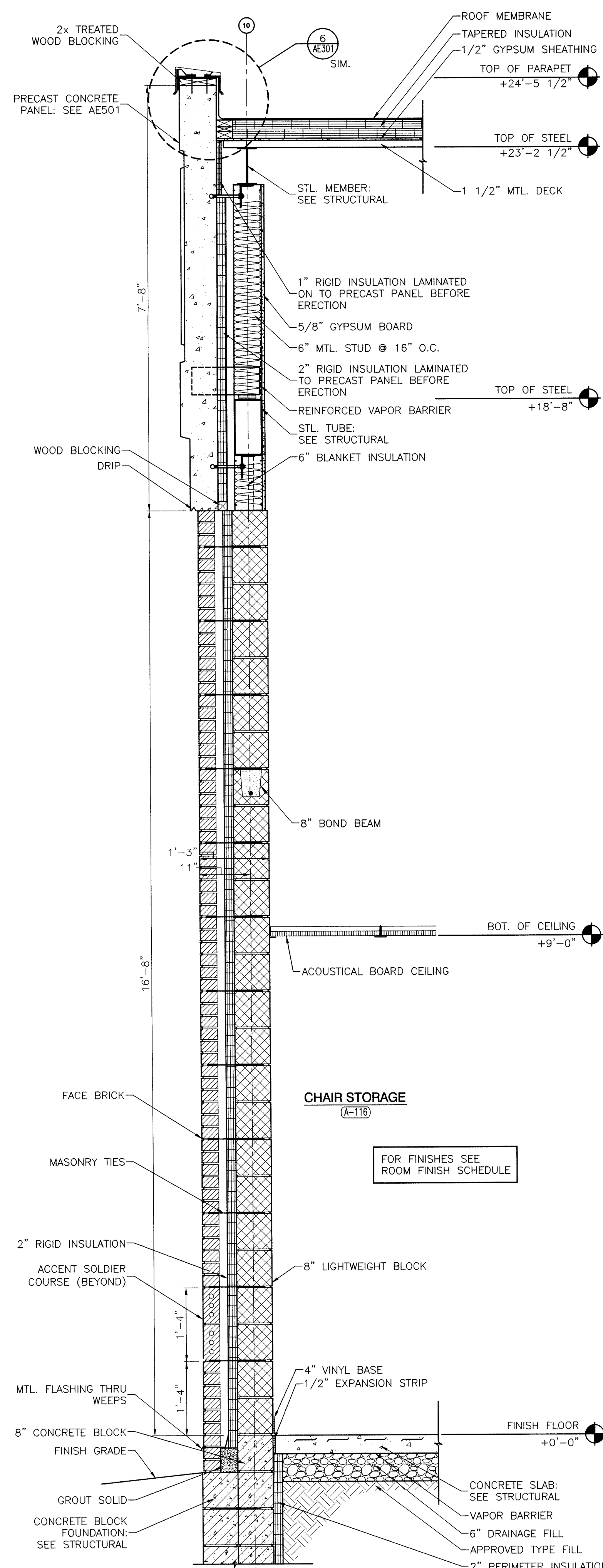
1
AE301



WALL SECTION

SCALE: 3/4" = 1'-0"

4
AE301



WALL SECTION

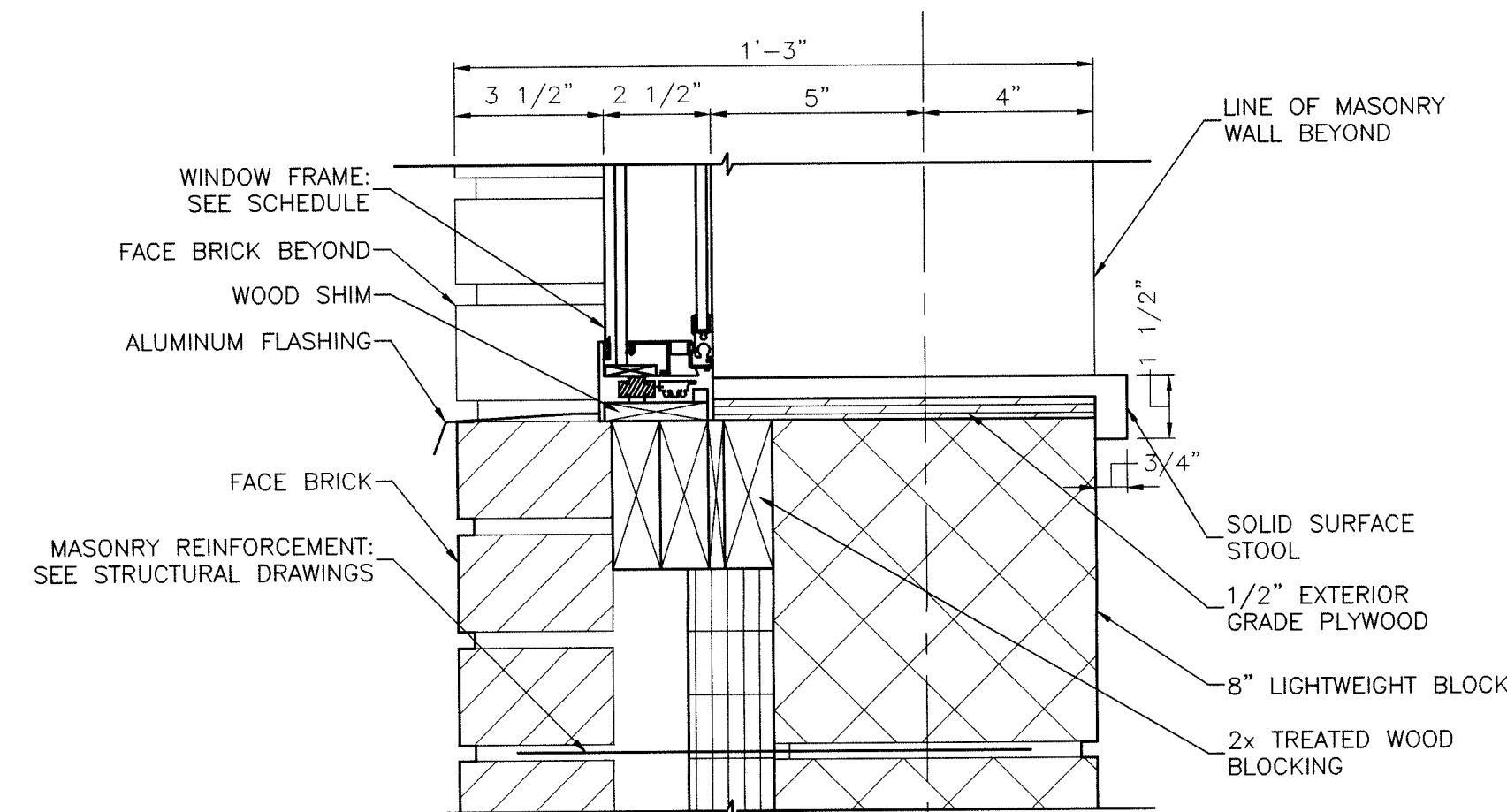
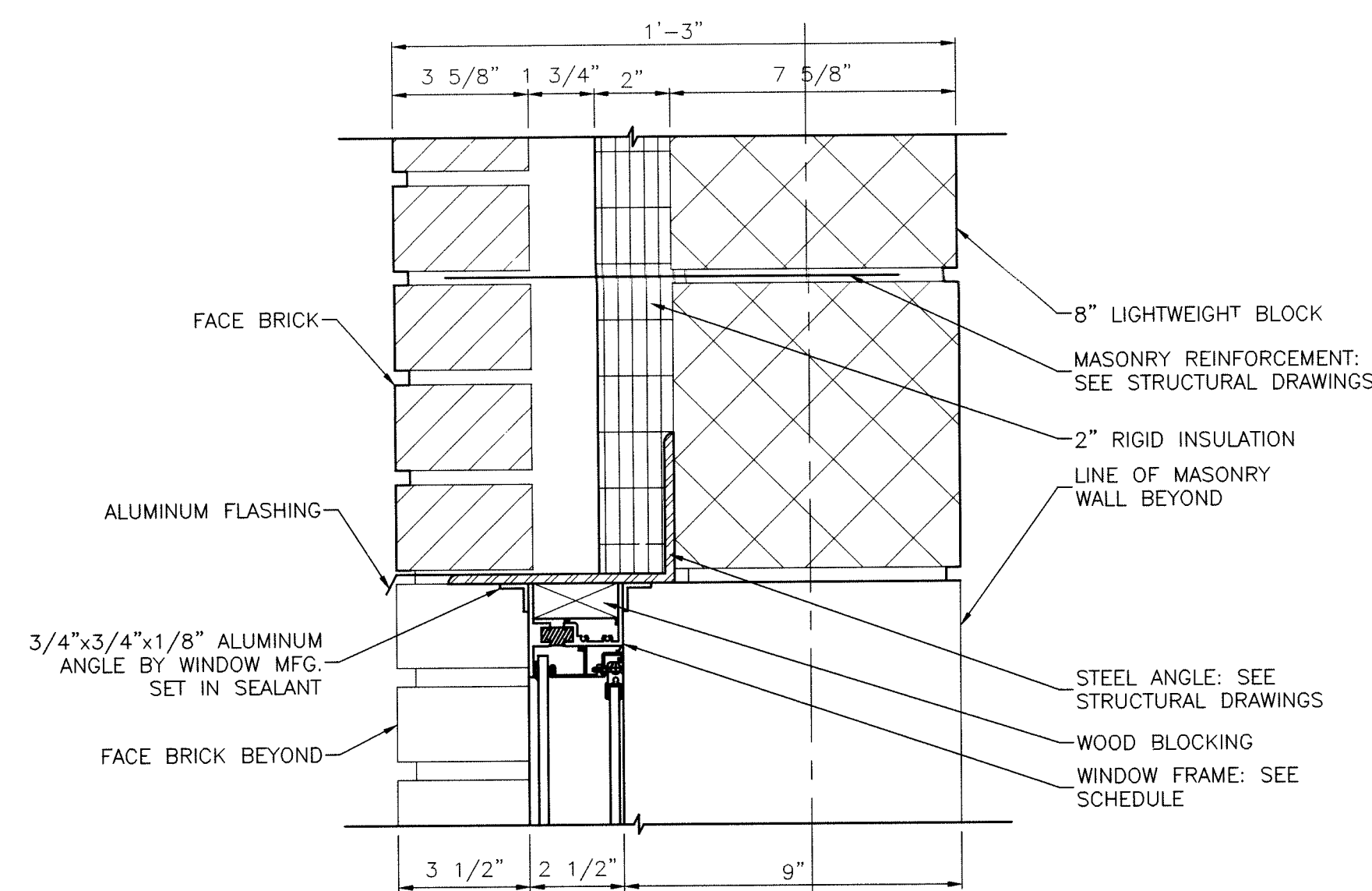
SCALE: 3/4" = 1'-0"

3
AE301



- ① 2'-0" W x 3'-0" H MIRROR WITH BOTTOM OF REFLECTIVE SURFACE MOUNTED AT 40" A.F.F.
- ② TOILET PAPER HOLDER BY OWNER.
- ③ PAPER TOWEL DISPENSER BY OWNER.
- ④ 24" x 24" ACCESS PANEL
- ⑤ 3'-0" HANDICAPPED GRAB BAR
- ⑥ 3'-6" HANDICAPPED GRAB BAR
- ⑦ SOUNDPROOF WALL
- ⑧ SOAP DISPENSER BY OWNER.
- ⑨ SEMI-RECESSED WASTE RECEPTACLE
- ⑩ TOILET PARTITION
- ⑪ CONVECTOR: SEE MECHANICAL DRAWINGS
- ⑫ FULL LENGTH MIRROR
- ⑬ ADA LAVATORY

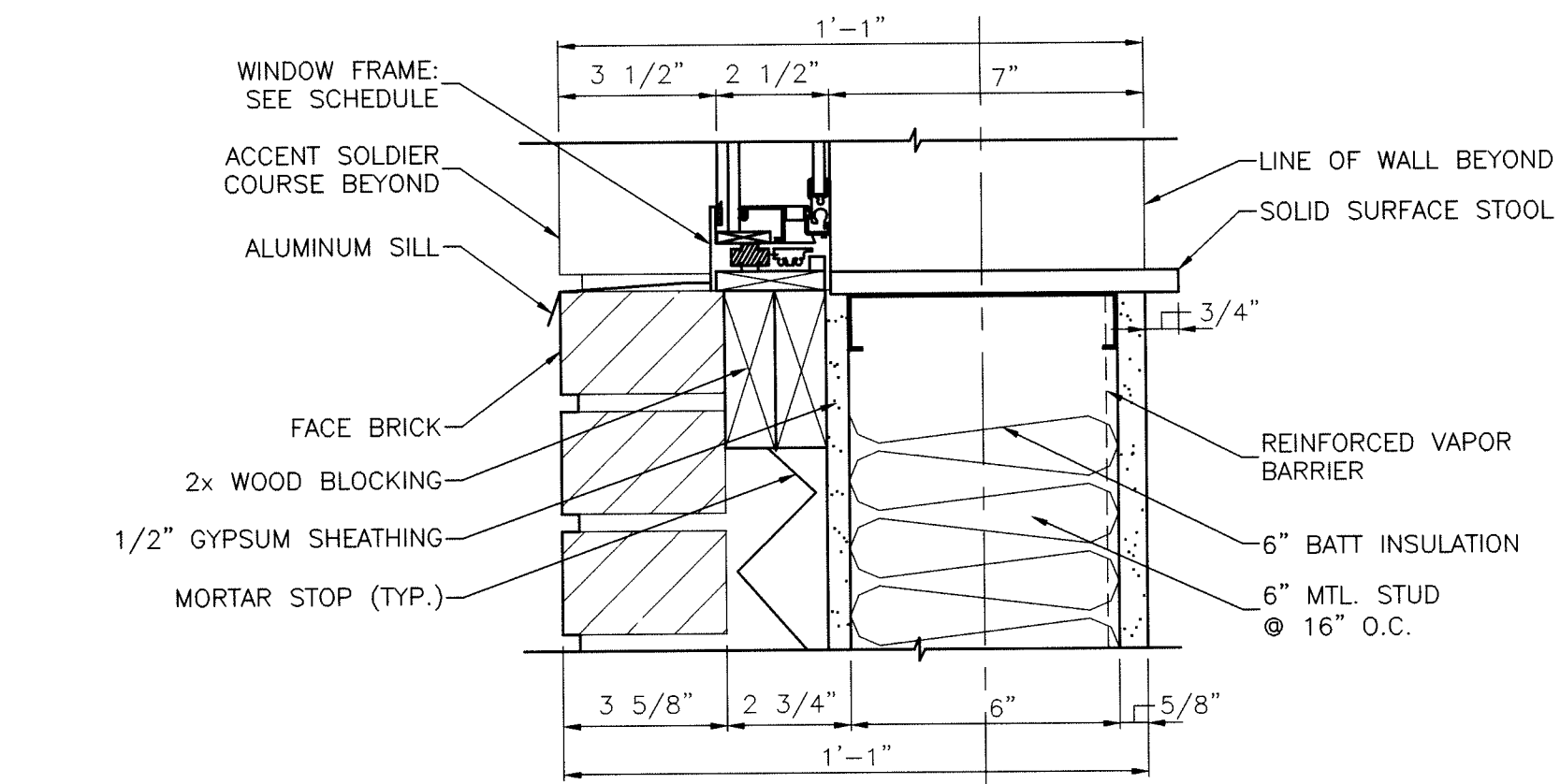
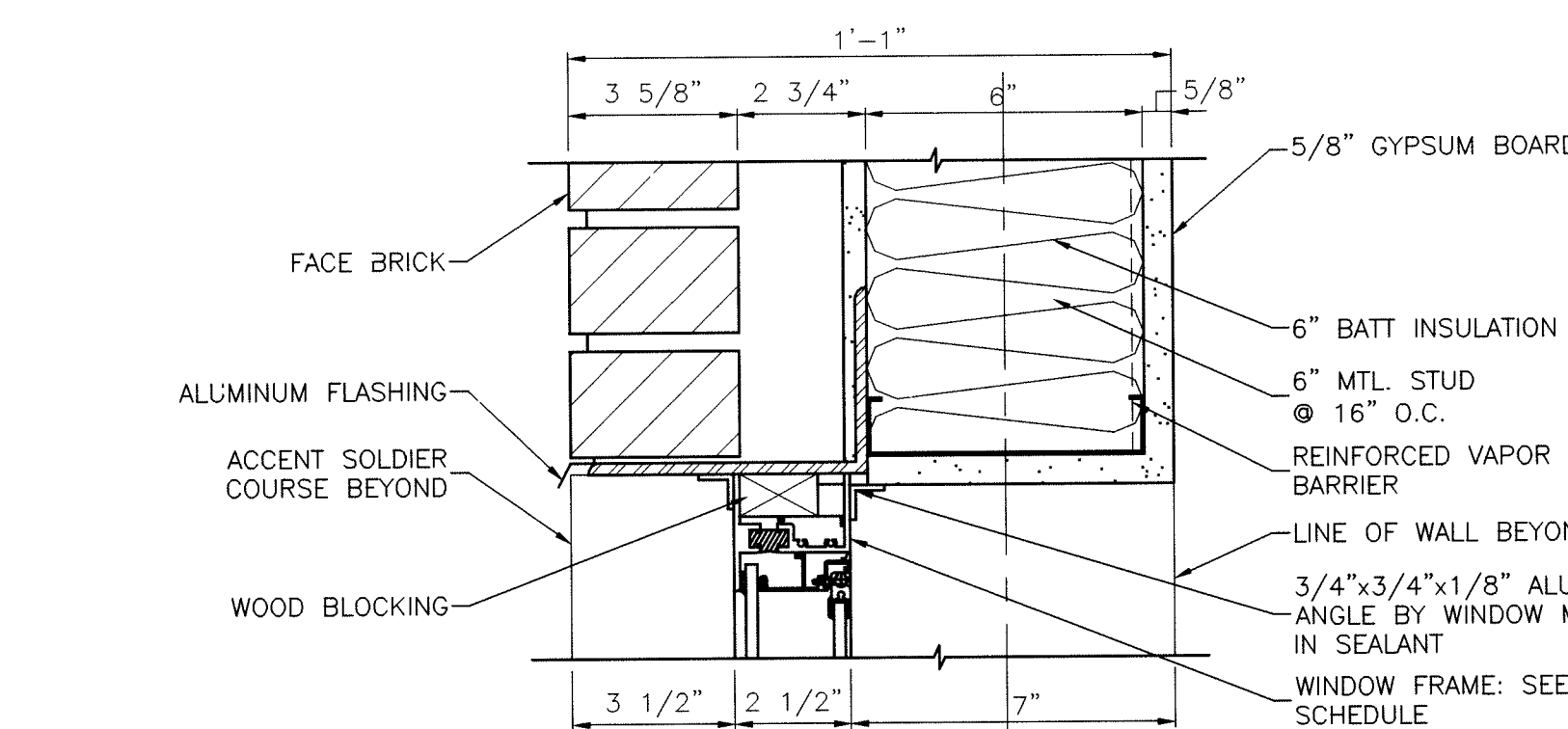




WINDOW DETAILS

SCALE: 3" = 1'-0"

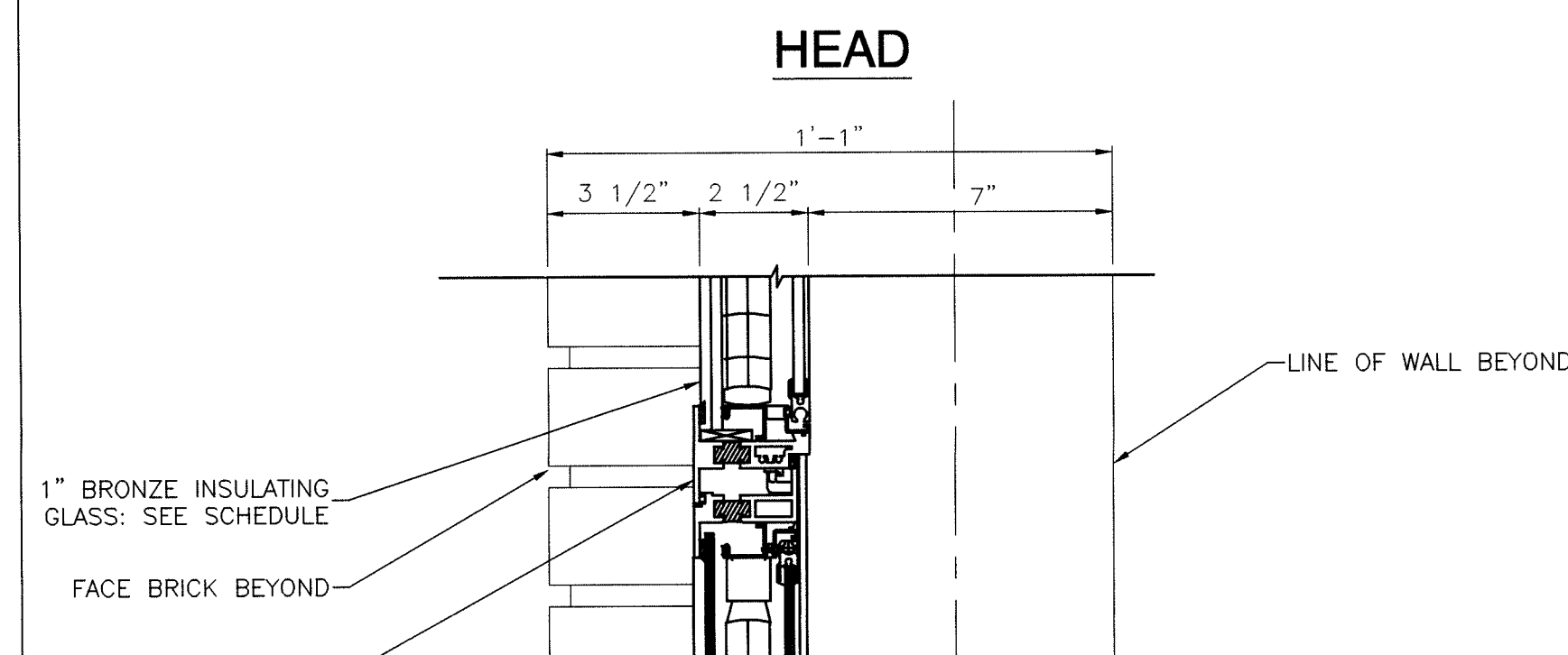
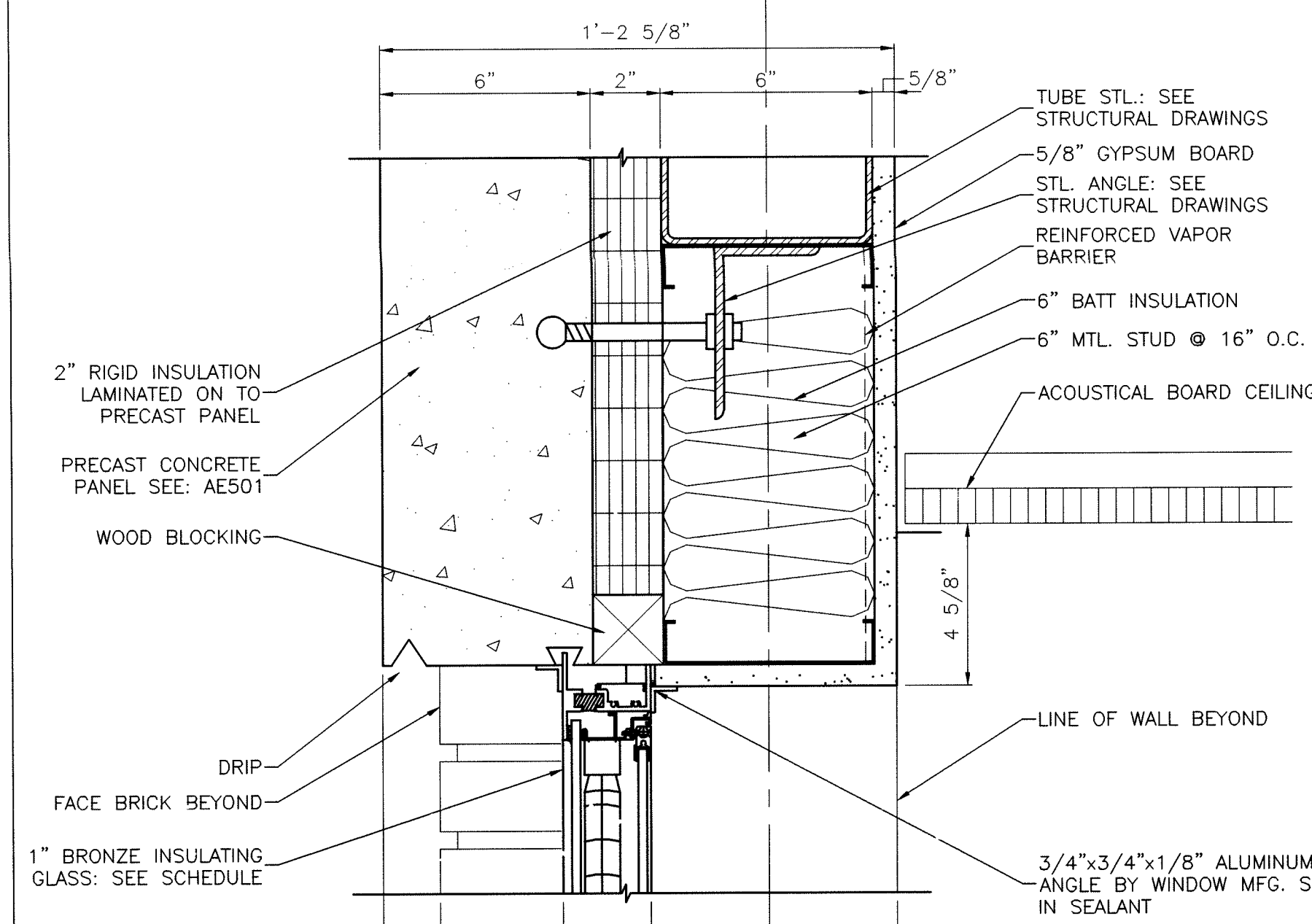
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AE501



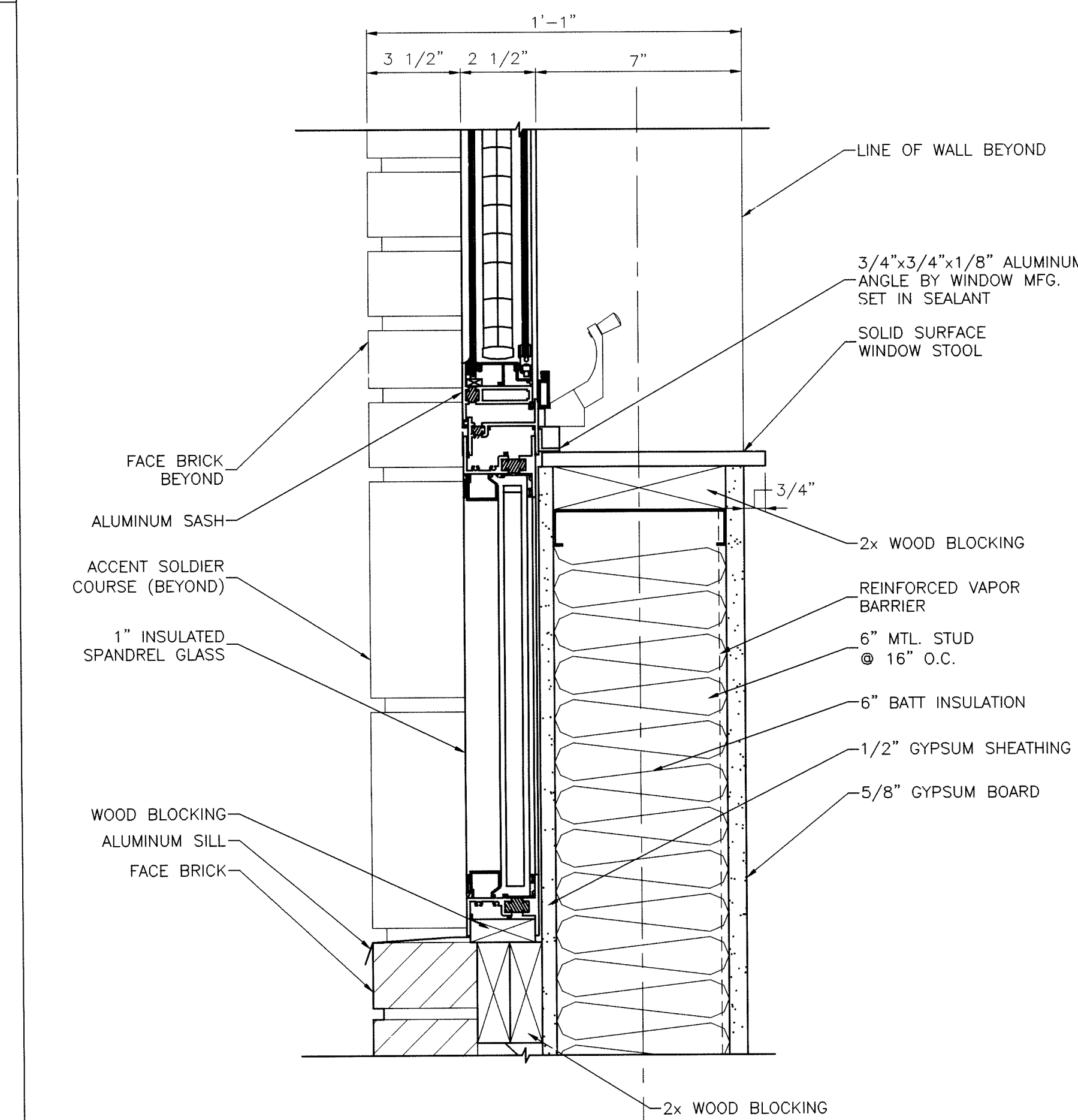
WINDOW DETAILS

SCALE: 3" = 1'-0"

18
AE501



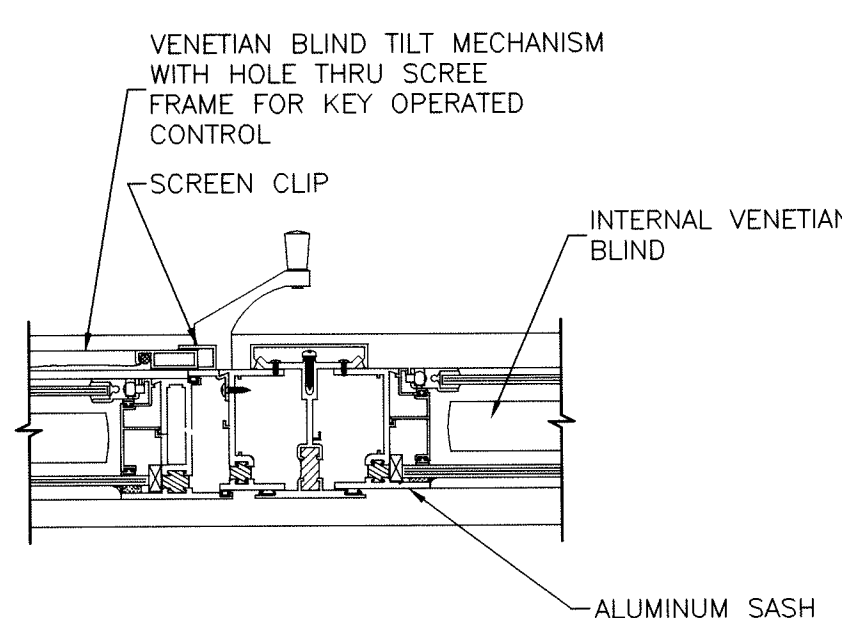
MEETING RAIL



WINDOW DETAILS

SCALE: 3" = 1'-0"

15
AE501

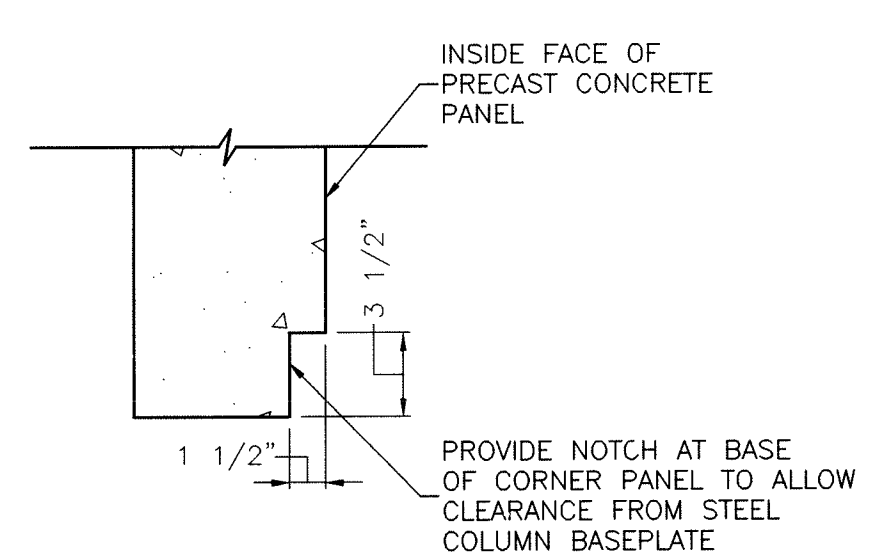


MULLION DETAIL

SCALE: 3" = 1'-0"

16
AE501

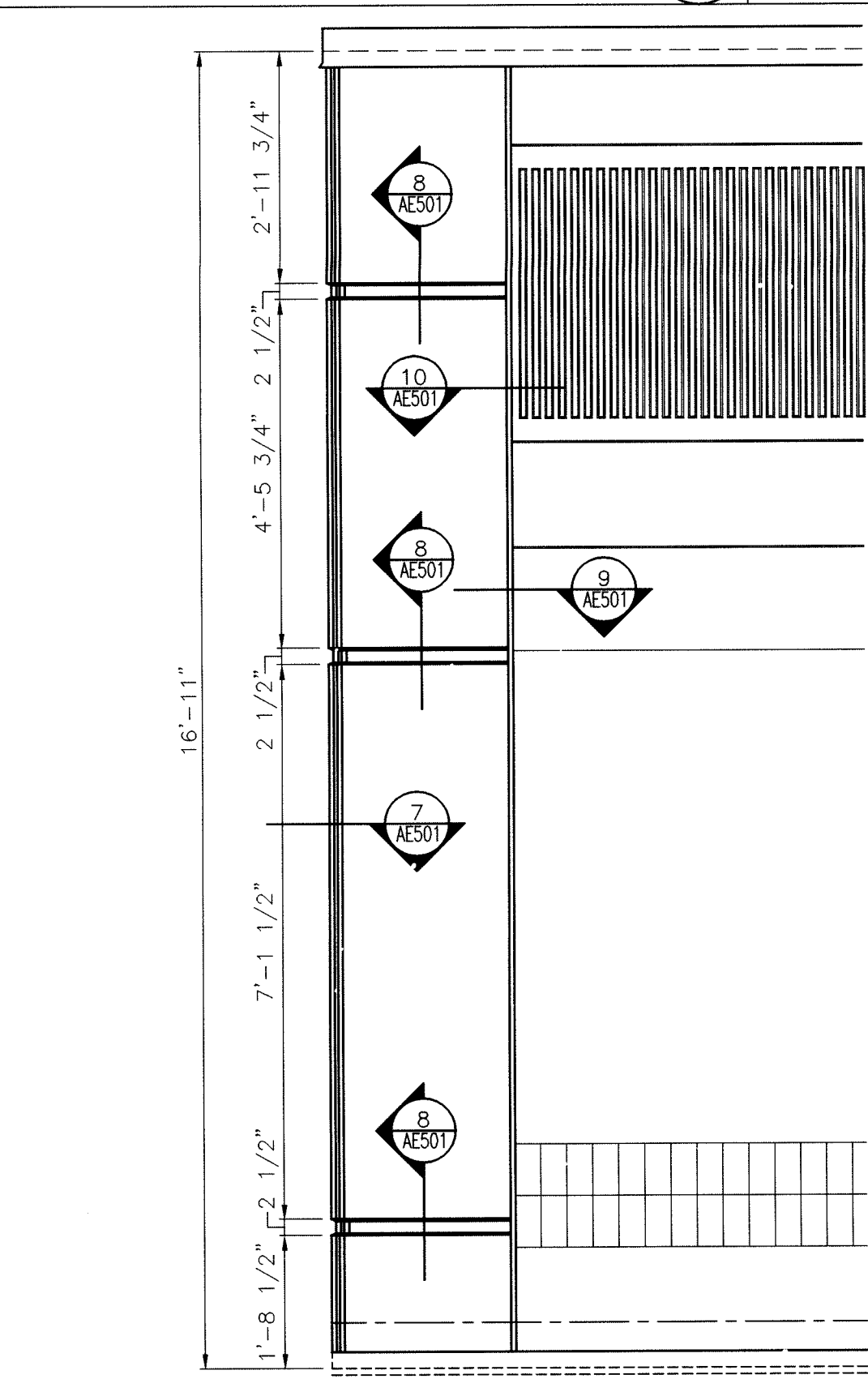
NOT USE



NOTCH DETAIL @ CORNER PANEL

SCALE: 1 1/2" = 1'-0"

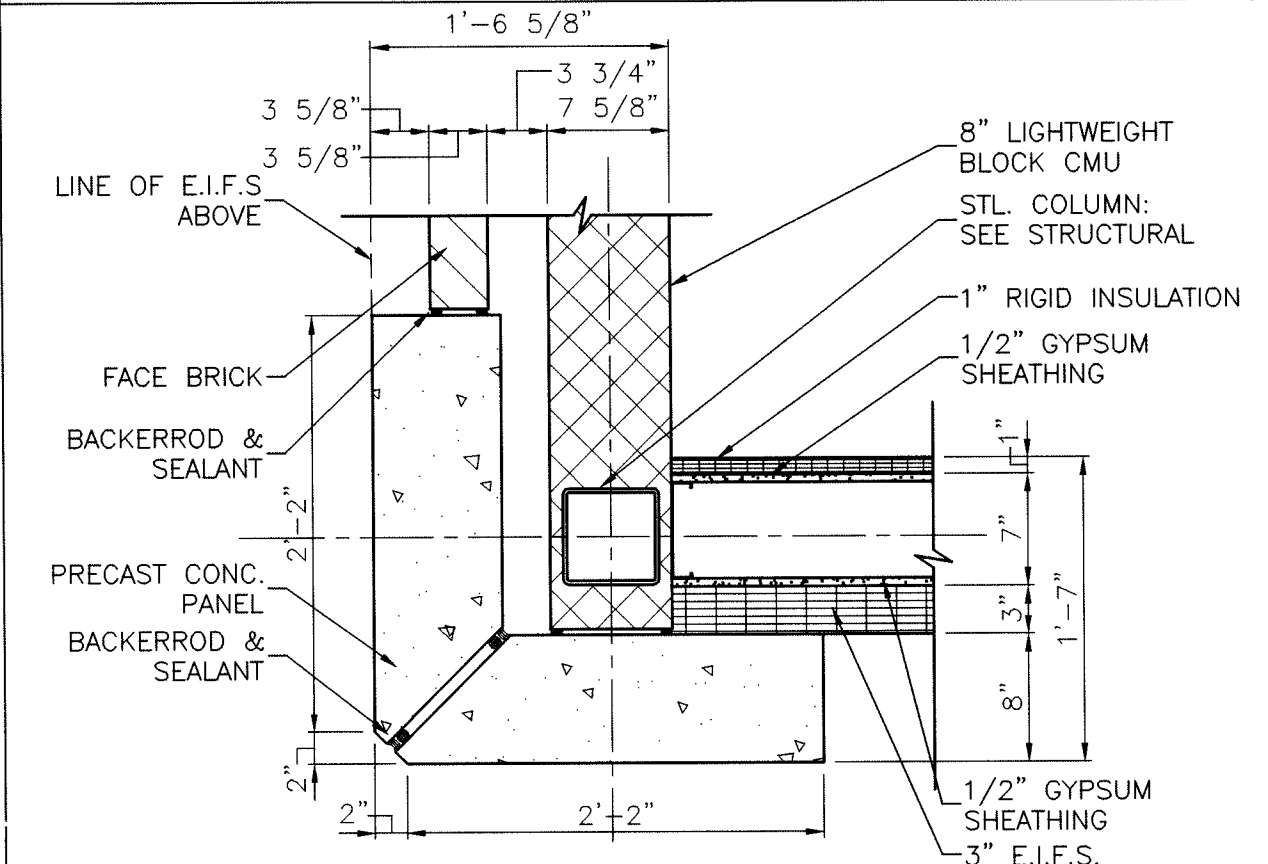
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AE501



CORNER PANEL ELEVATION

SCALE: 1/2" = 1'-0"

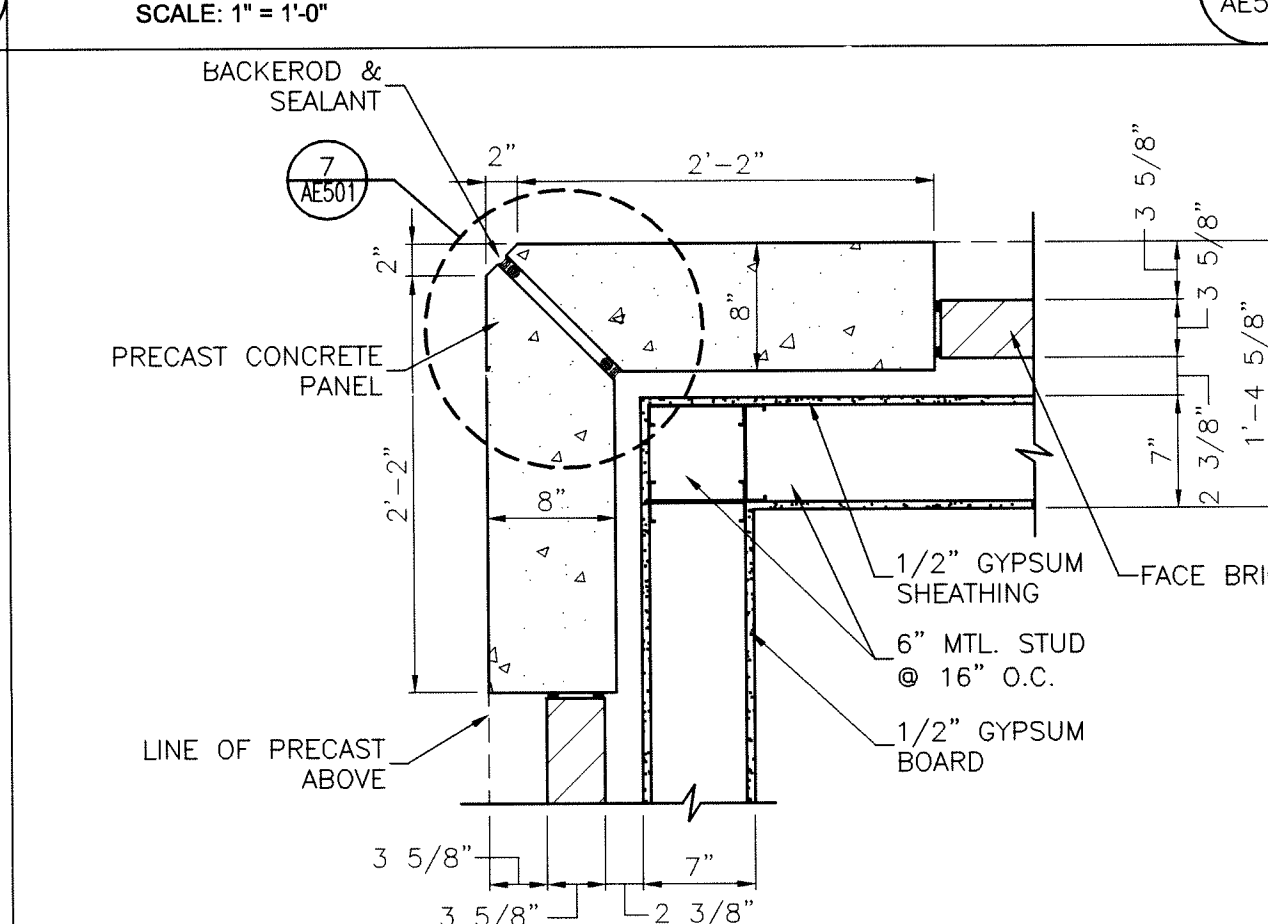
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AE501



PRECAST CORNER DETAIL

SCALE: 1" = 1'-0"

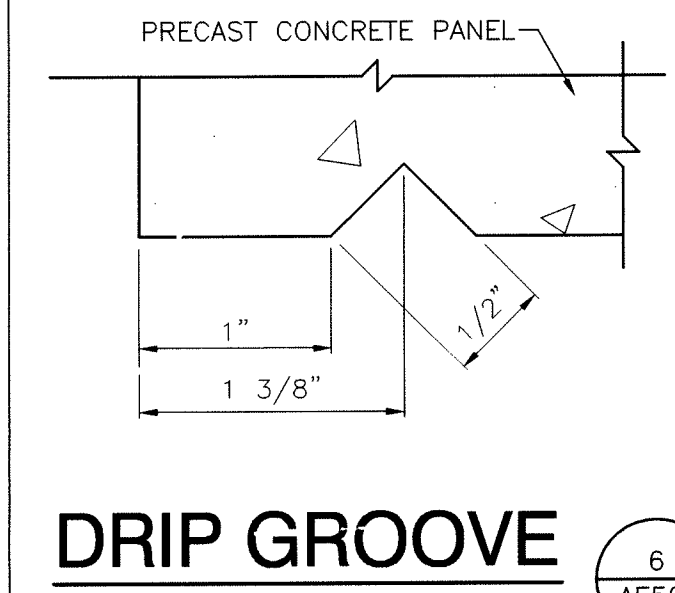
12
AE501



PRECAST CORNER DETAIL

SCALE: 1" = 1'-0"

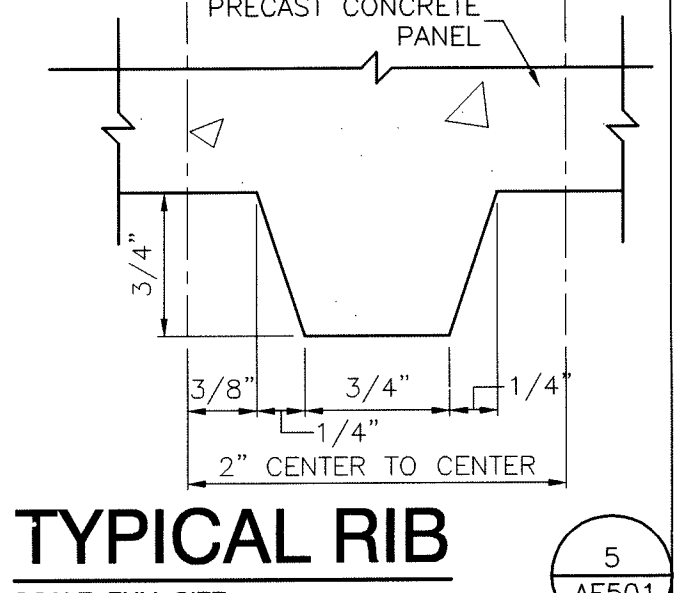
11
AE501



DRIP GROOVE

SCALE: FULL SIZE

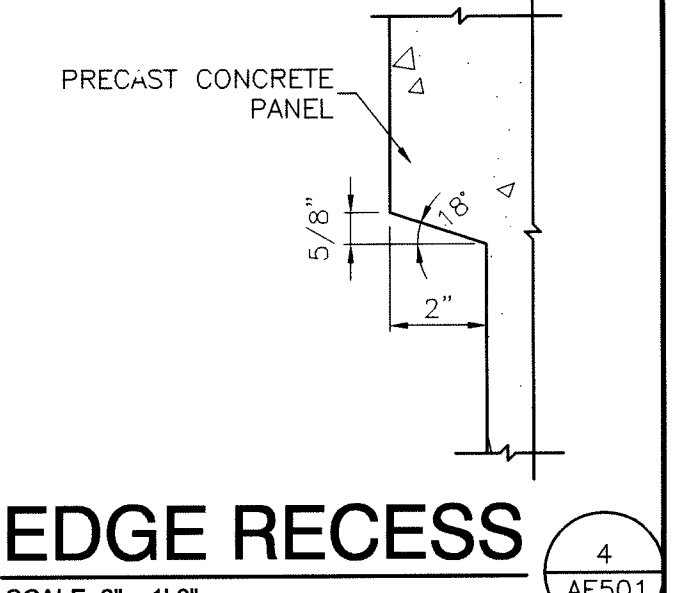
6
AE501



TYPICAL RIB

SCALE: FULL SIZE

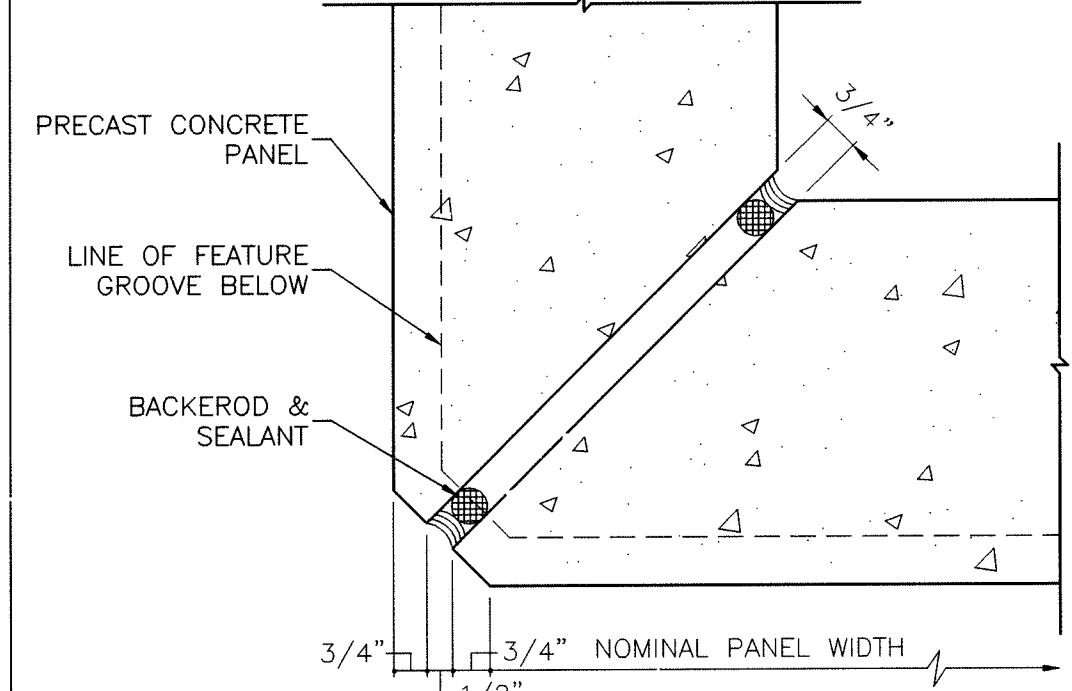
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AE501



EDGE RECESS

SCALE: 3" = 1'-0"

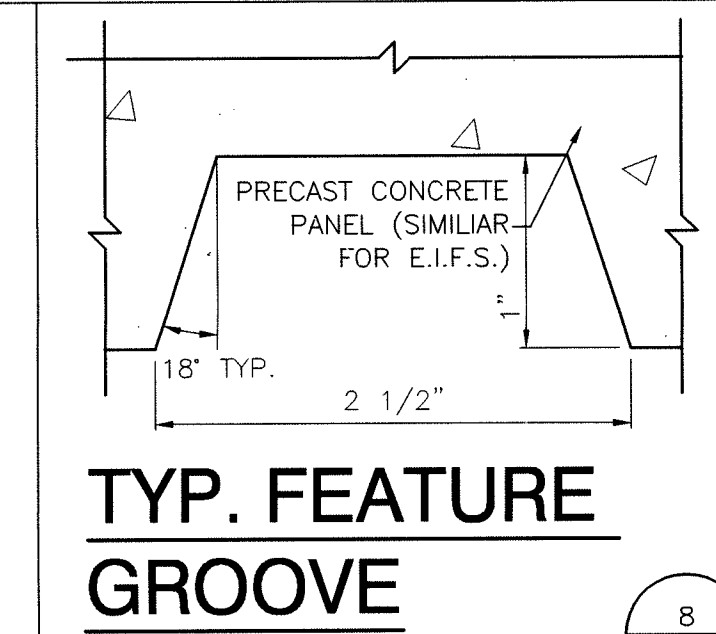
4
AE501



90° MITERED CORNER @ FLAT PANEL

SCALE: 3" = 1'-0"

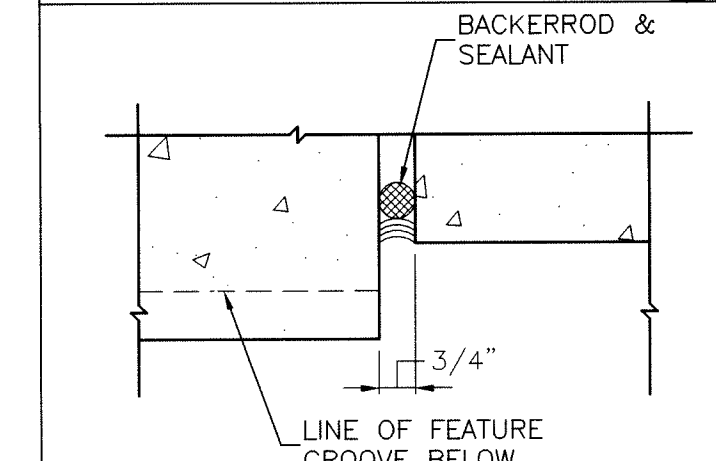
7
AE501



TYP. FEATURE GROOVE

SCALE: FULL SIZE

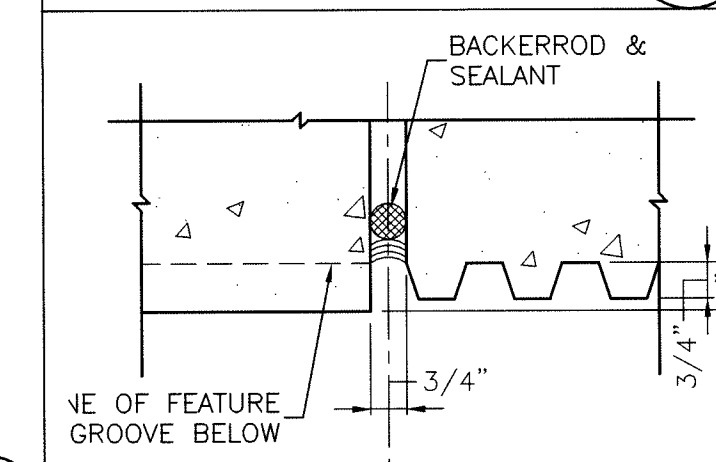
8
AE501



JOINT DETAIL

SCALE: 3" = 1'-0"

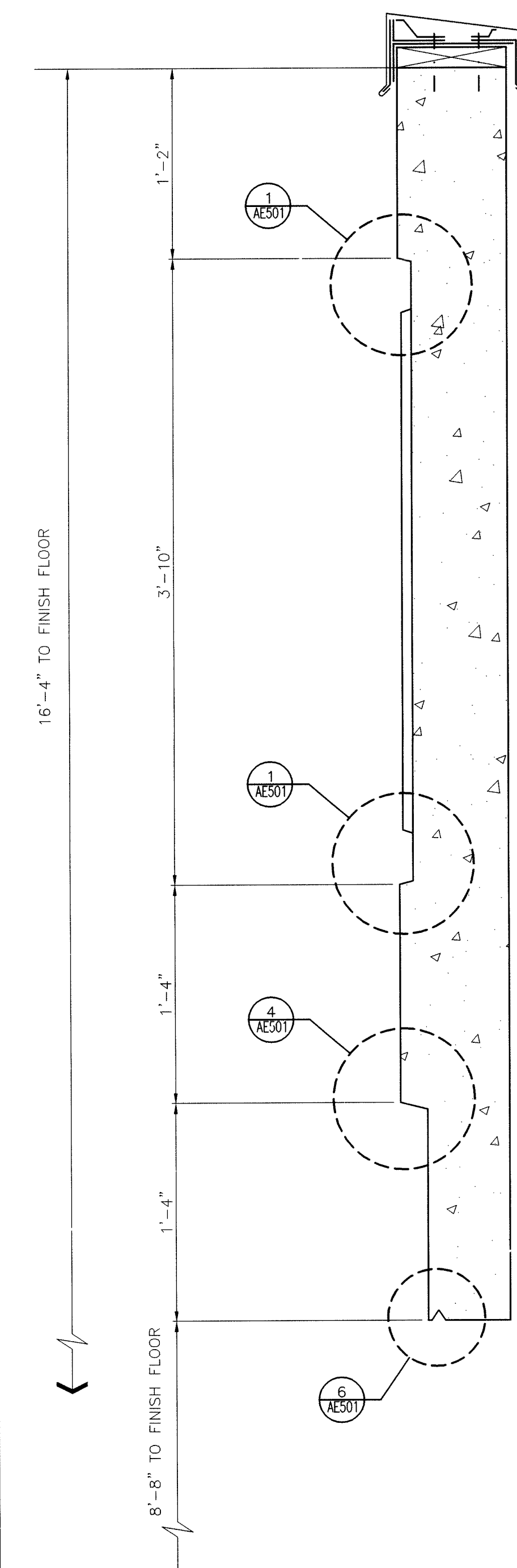
9
AE501



JOINT DETAIL

SCALE: 3" = 1'-0"

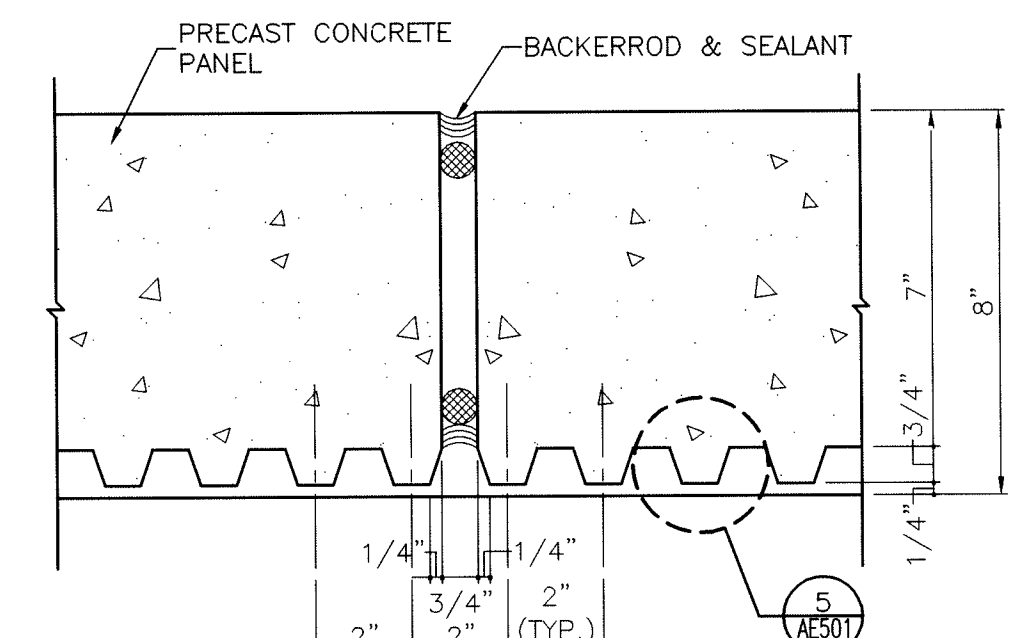
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AE501



PANEL SECTION

SCALE: 1 1/2" = 1'-0"

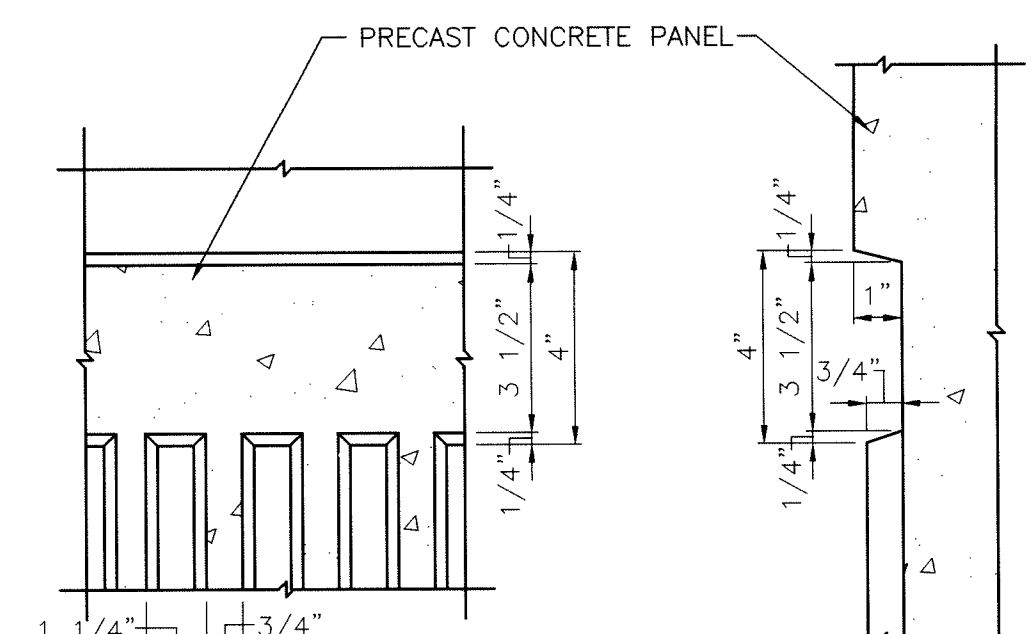
3
AE501



VERTICAL JOINT @ RIBBED PANEL

SCALE: 3" = 1'-0"

2
AE501

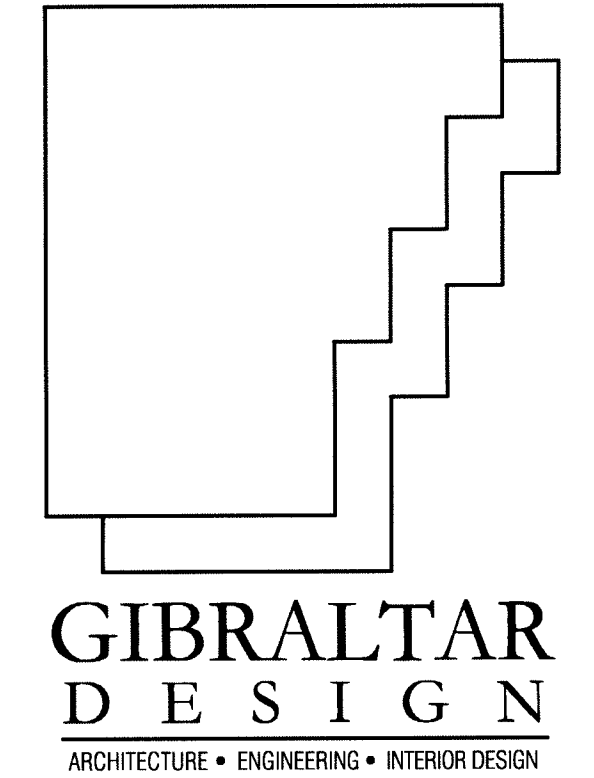


4" RECESSED HORIZONTAL BAND AT TOP AND BOTTOM OF RIBBED AREA

SCALE: 3" = 1'-0"

1
AE501

NOT USE



PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS
METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP
MARION COUNTY, INDIANA

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PROJECT 02-580
DATE 04/21/03
COORDINATED BY LDH
DRAWN BY SCP
CHECKED BY LDH

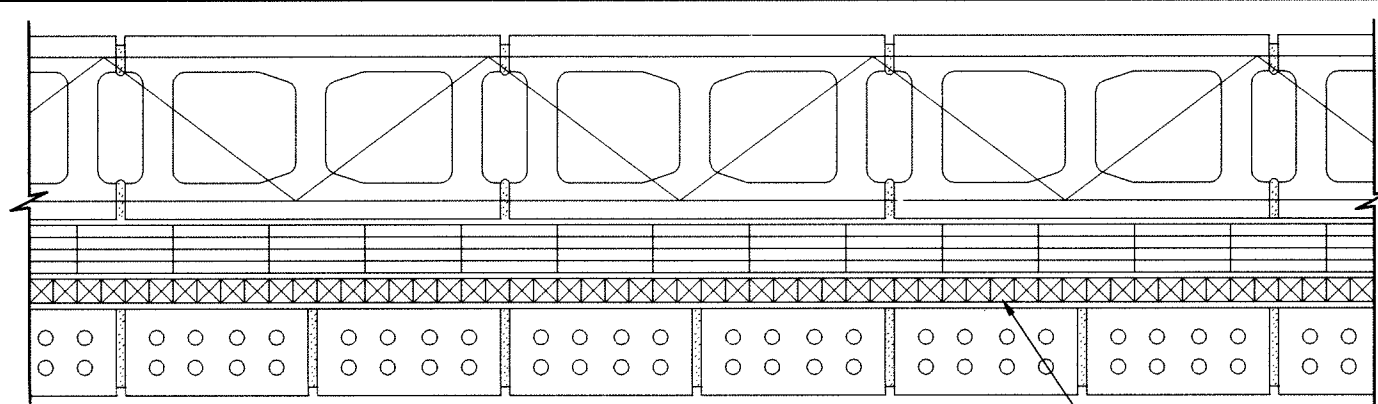
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04/21/03 CD BID SET ISSUED

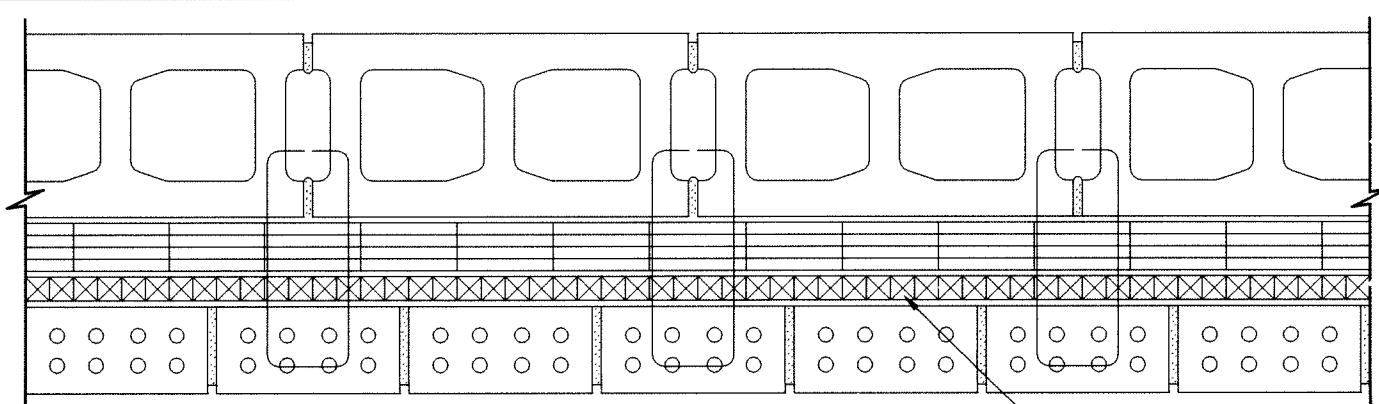
DRAWING
PRECAST PANEL & WINDOW DETAILS

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

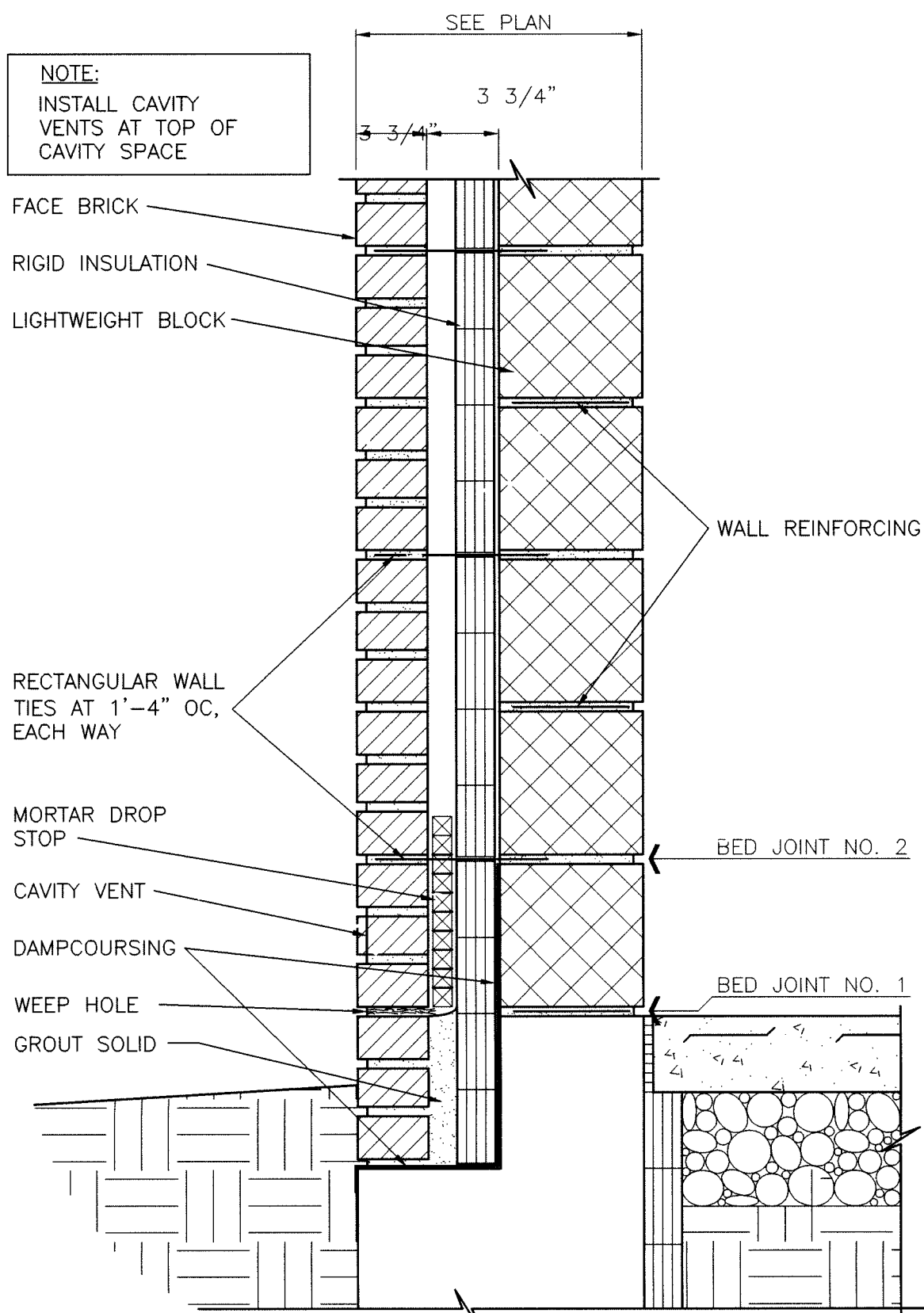
GIBALTAR DESIGN SHEET
N AE501



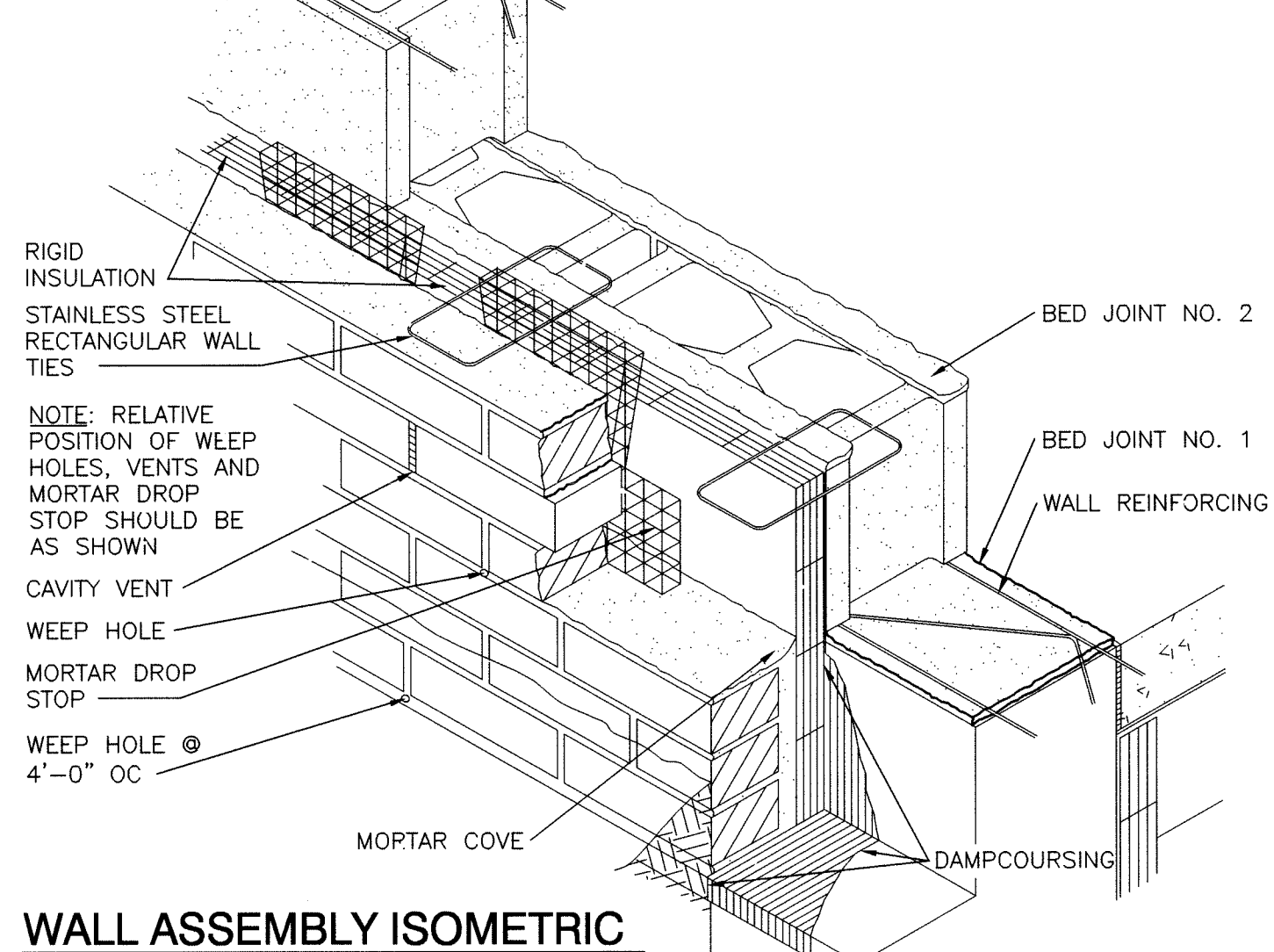
BED JOINT #1
SCALE: 1 1/2" = 1'-0"



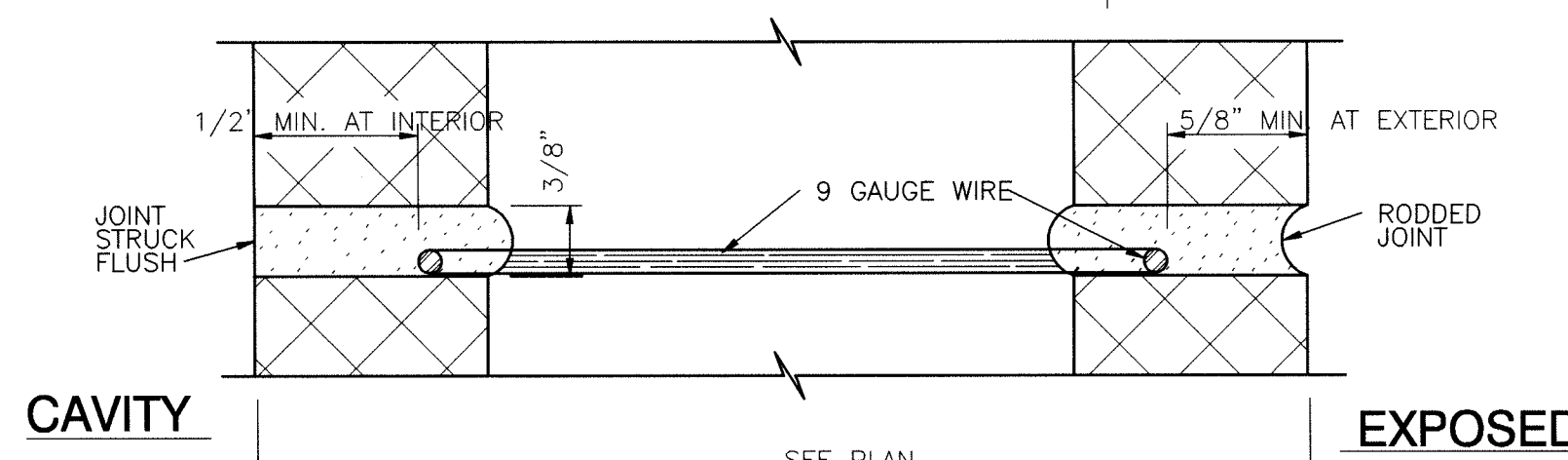
BED JOINT #2
SCALE: 1 1/2" = 1'-0"



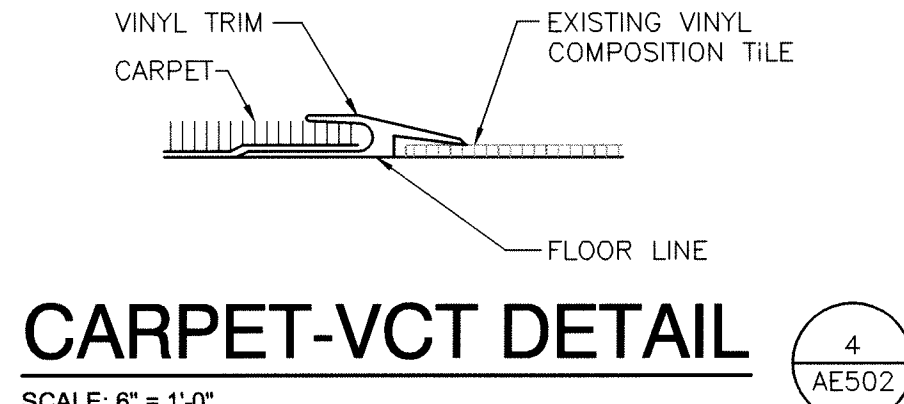
TYPICAL MASONRY WALL CONSTRUCTION DETAILS
SCALE: AS NOTED



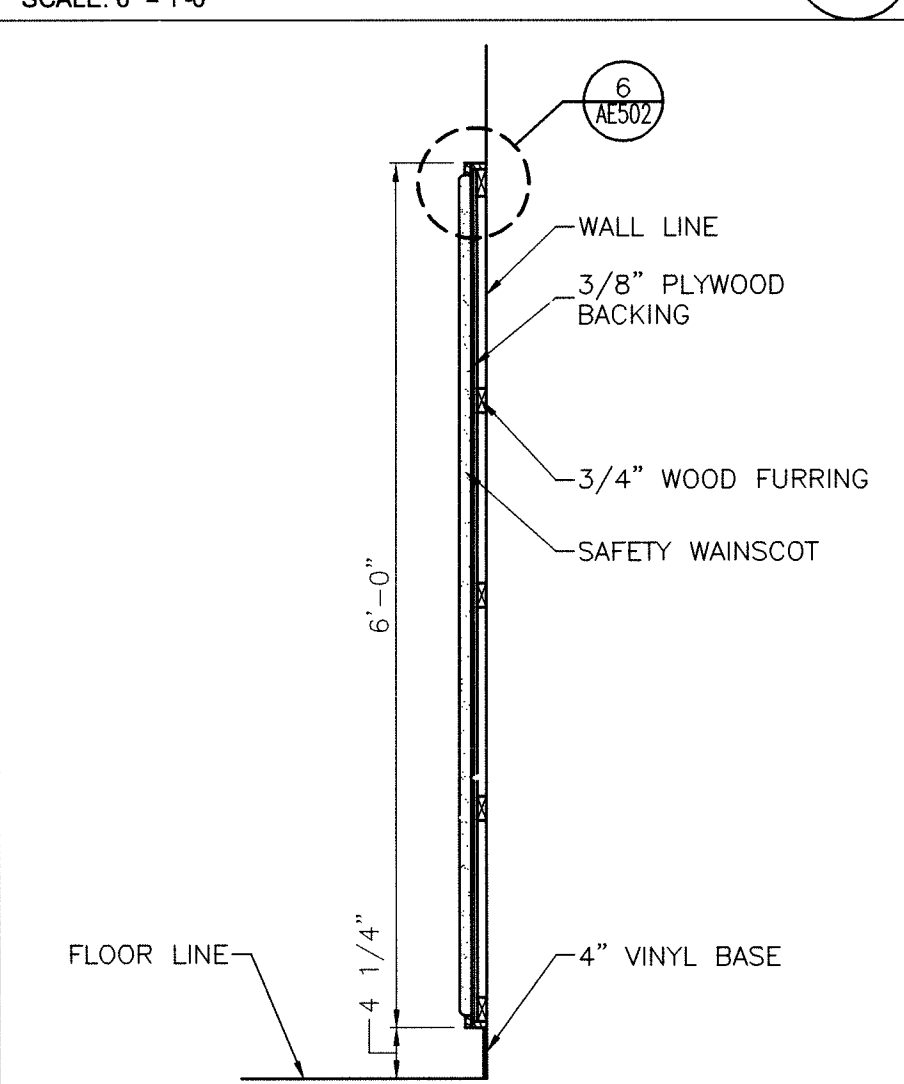
WALL ASSEMBLY ISOMETRIC
SCALE: NOT TO SCALE



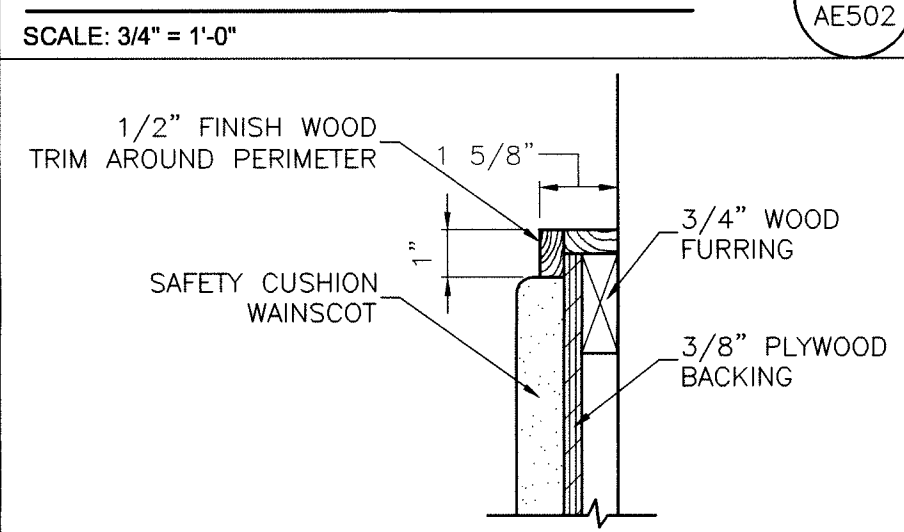
DETAIL AT BED JOINT #1
SCALE: FULL SIZE



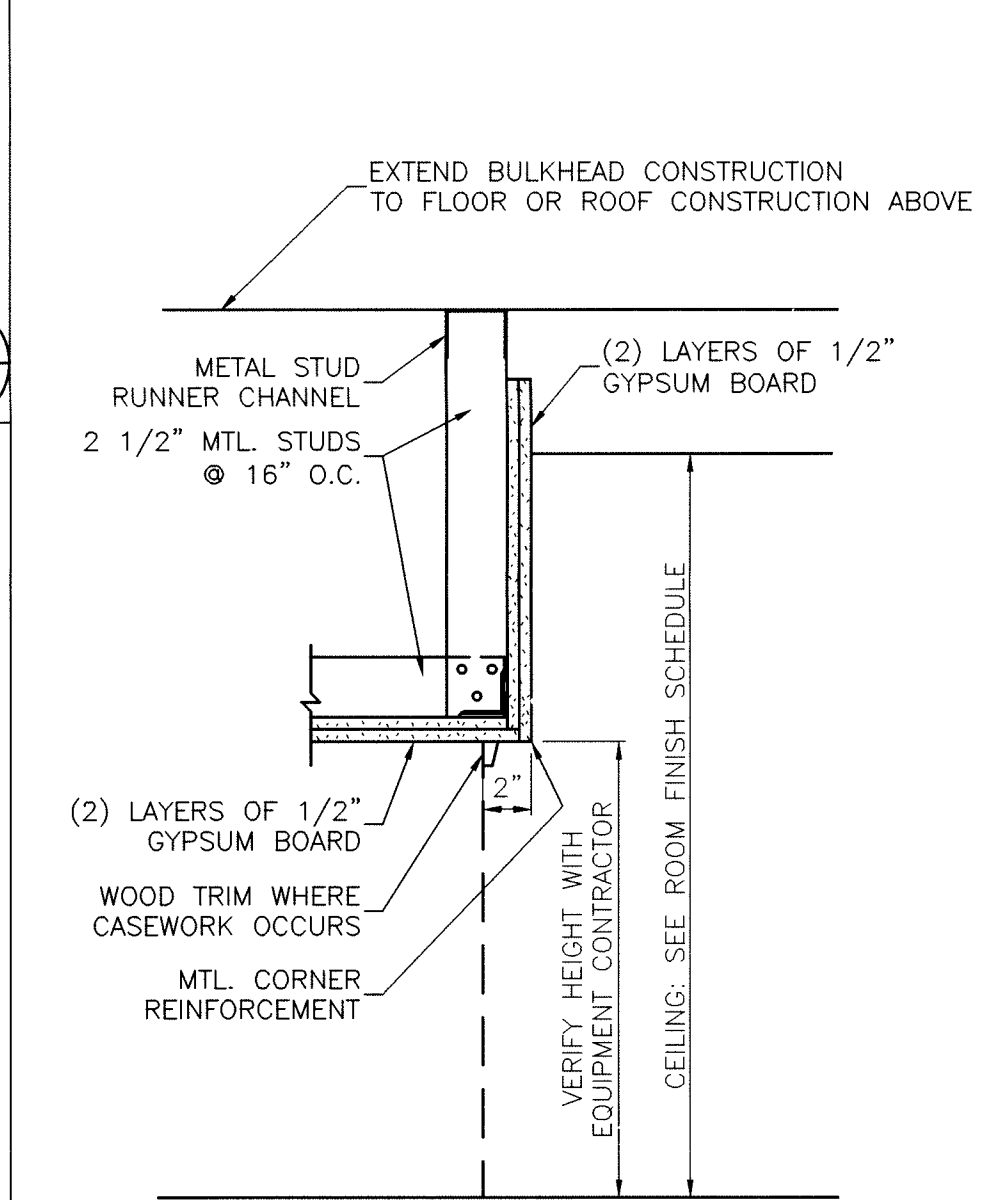
CARPET-VCT DETAIL
SCALE: 6" = 1'-0"



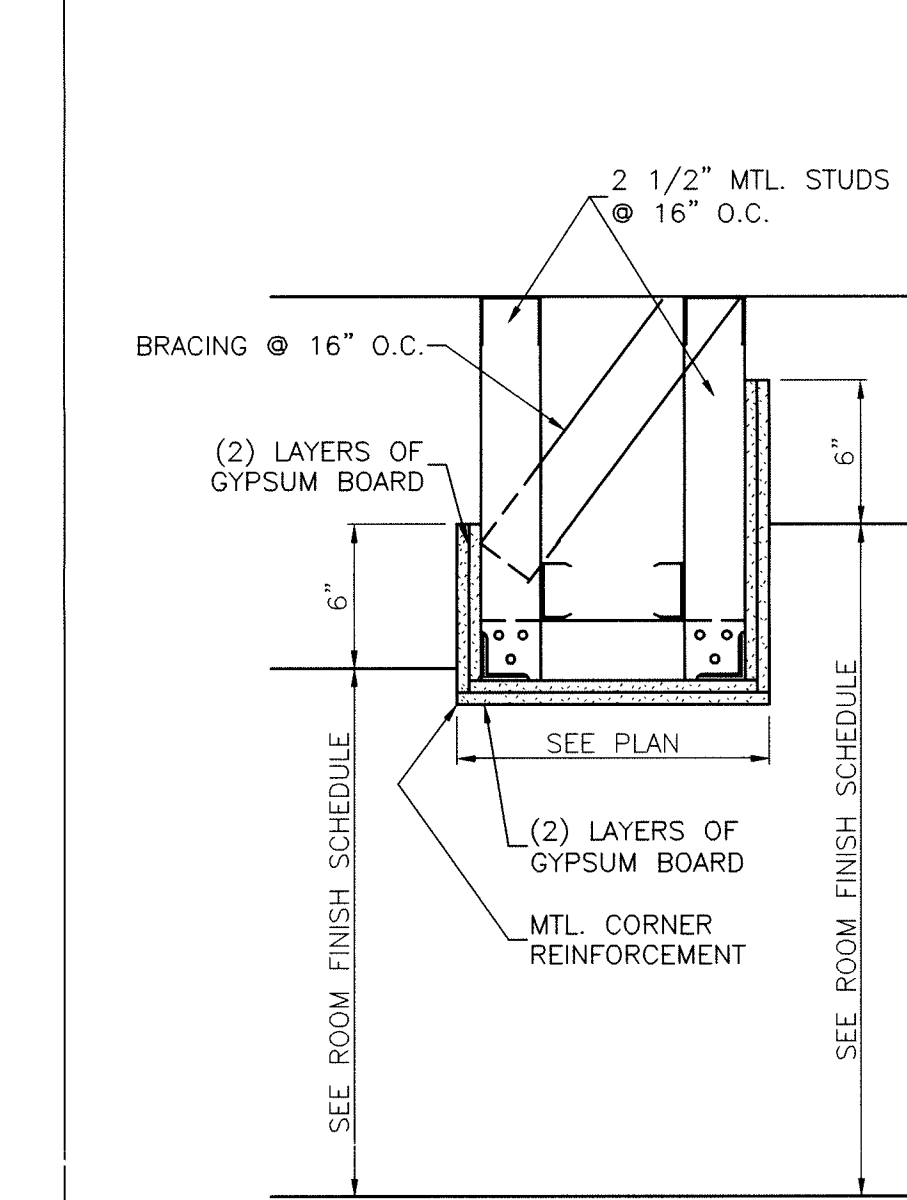
SAFETY CUSHION WAINSCOT DETAIL
SCALE: 3/4" = 1'-0"



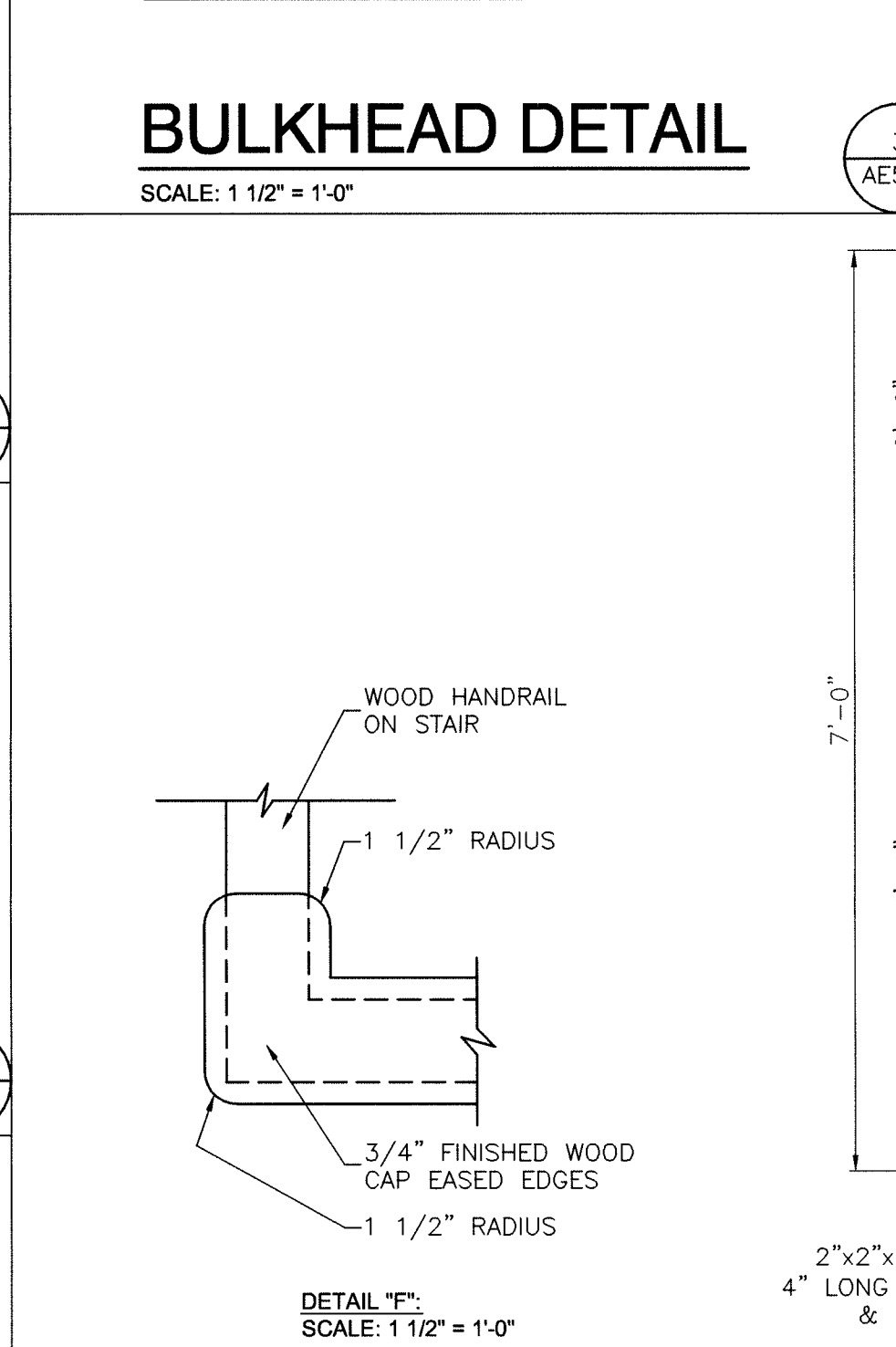
SAFETY CUSHION WAINSCOT DETAIL
SCALE: 3" = 1'-0"



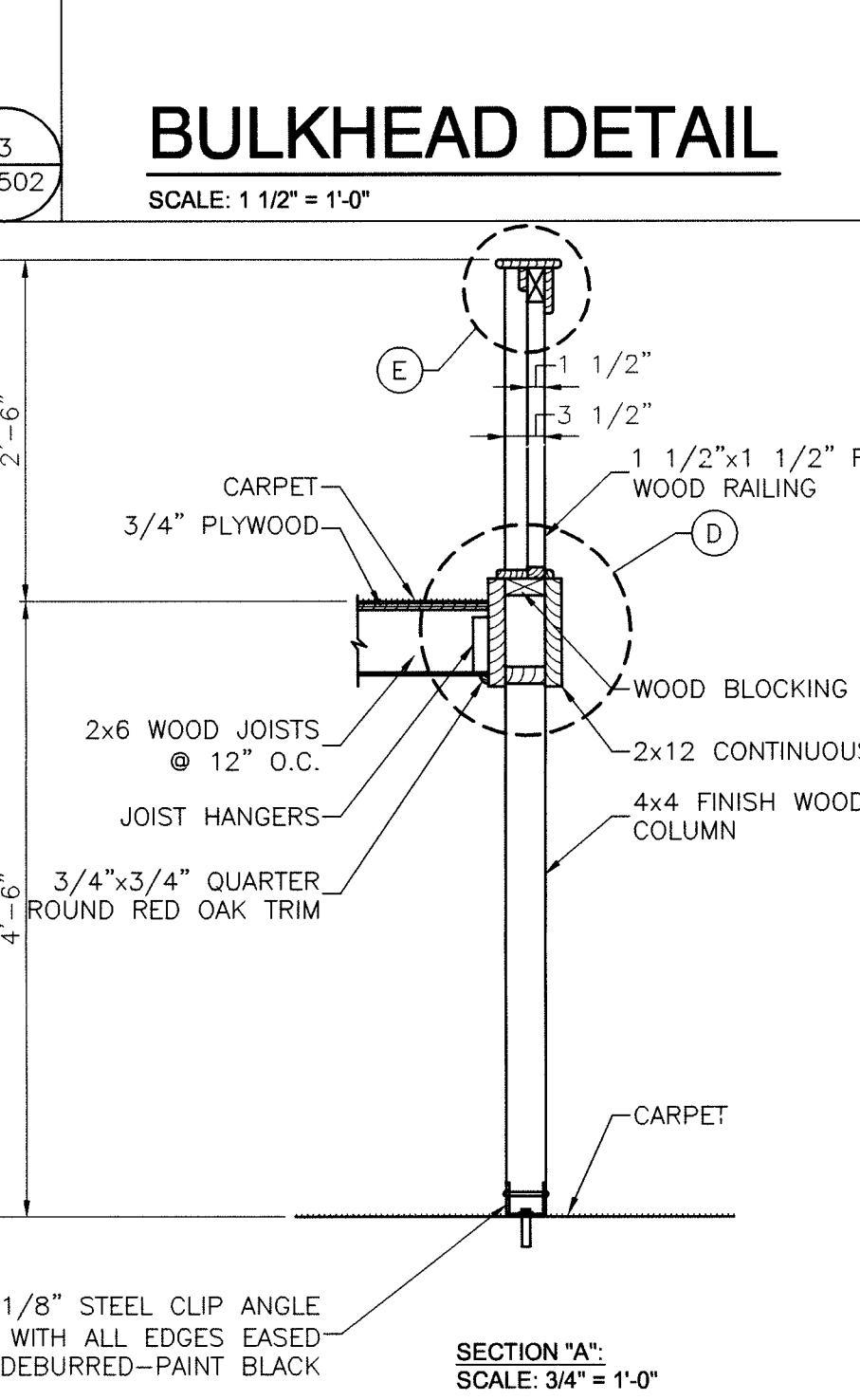
BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"



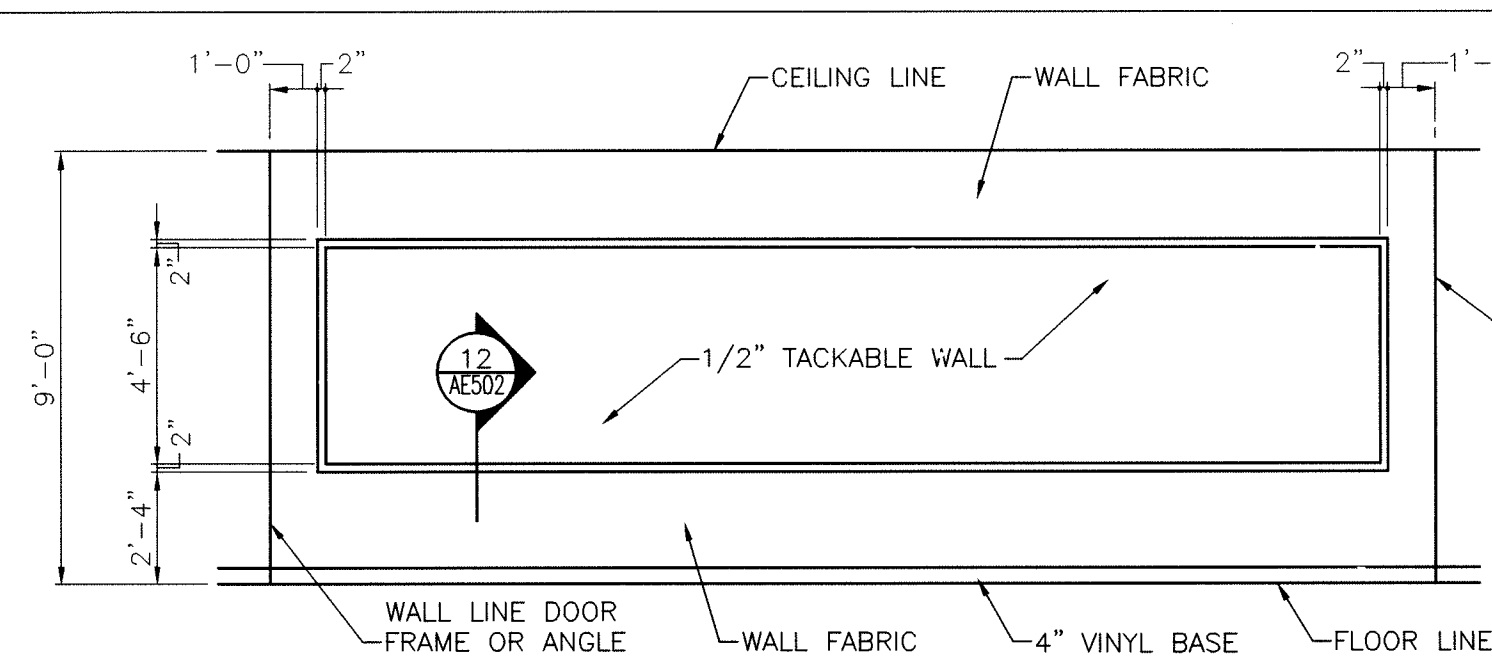
BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"



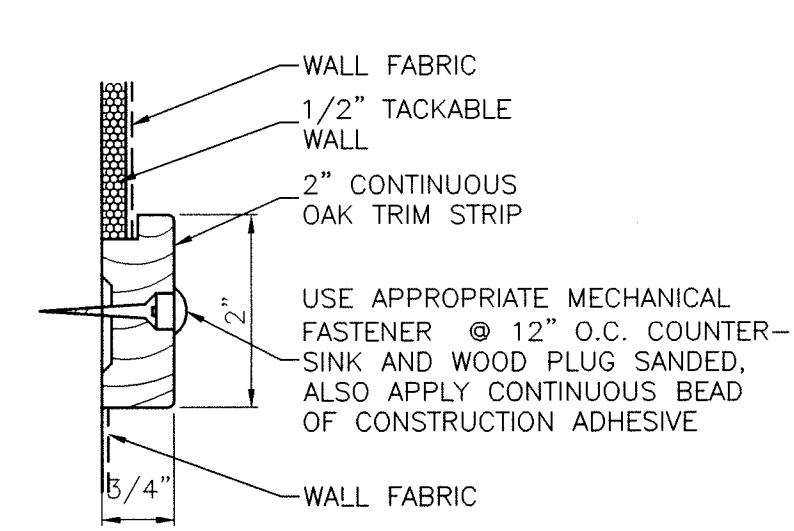
DETAIL "F":
SCALE: 1 1/2" = 1'-0"



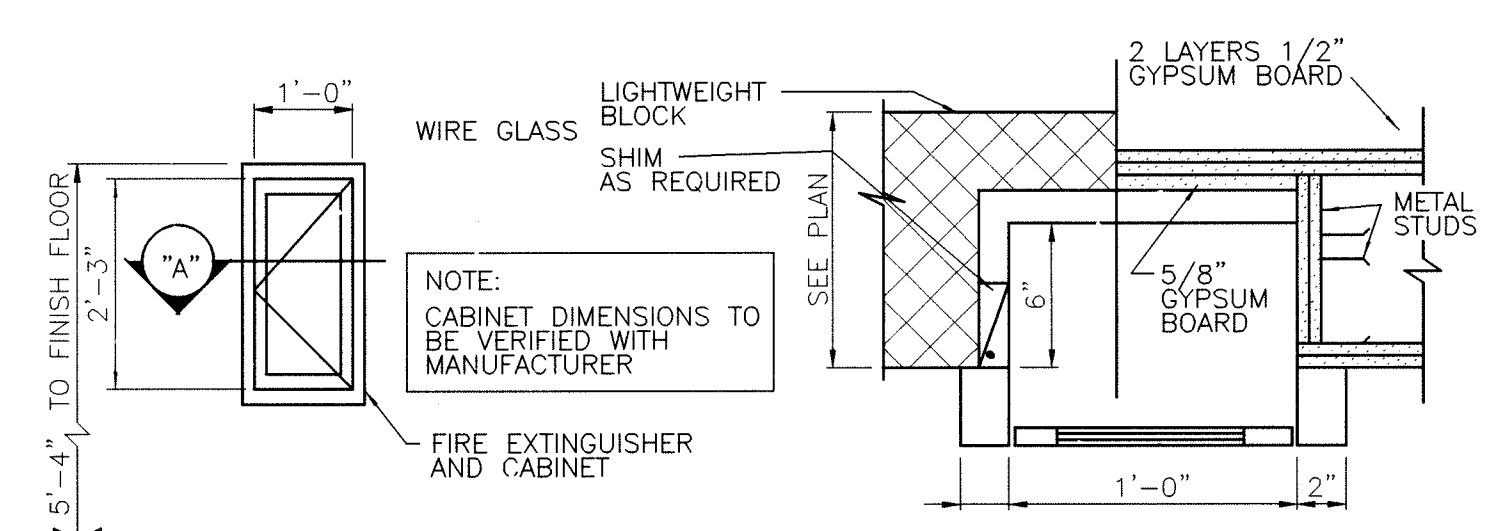
SECTION "A":
SCALE: 3/4" = 1'-0"



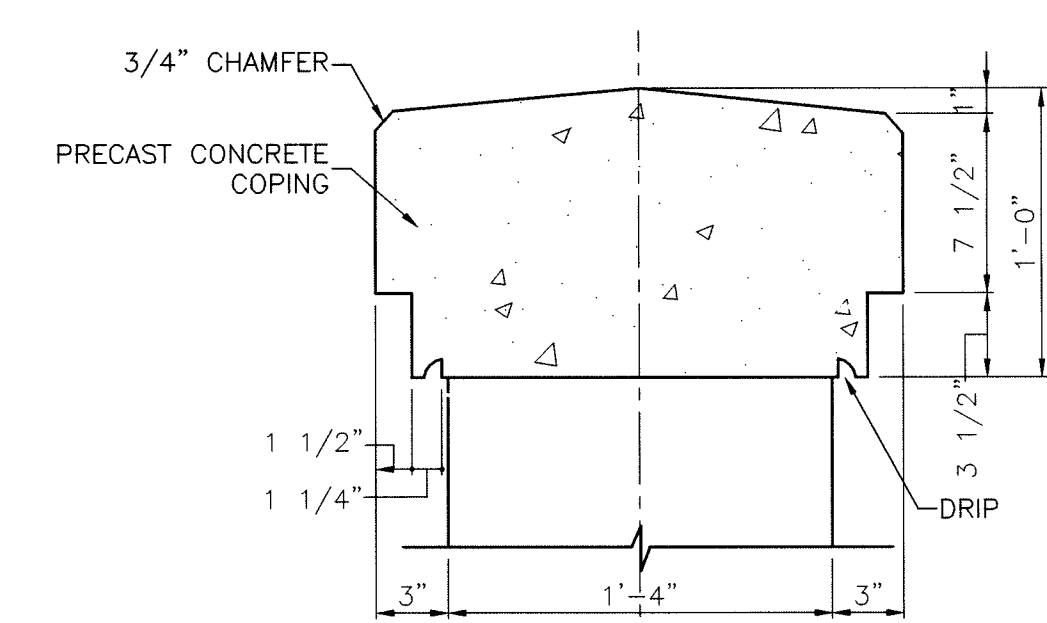
TYPICAL CORRIDOR TACKABLE WALL TRIM ELEVATION
SCALE: 1/4" = 1'-0"



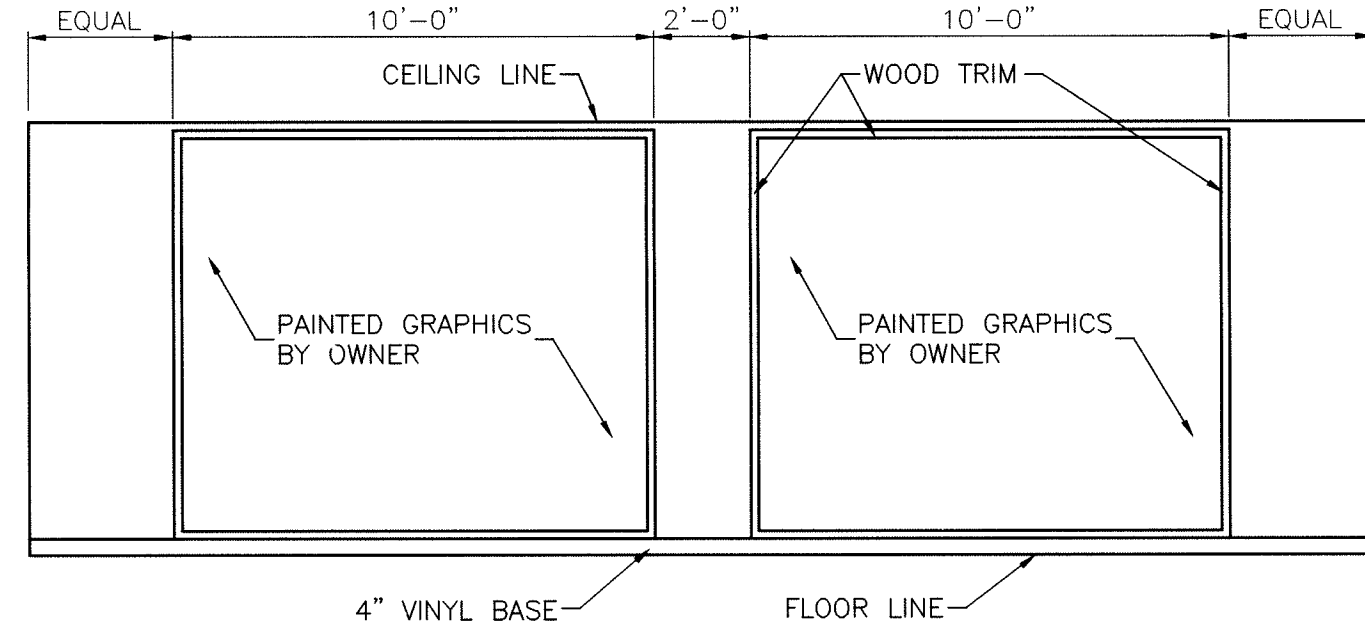
TACKABLE WALL TRIM DETAIL
SCALE: 6" = 1'-0"



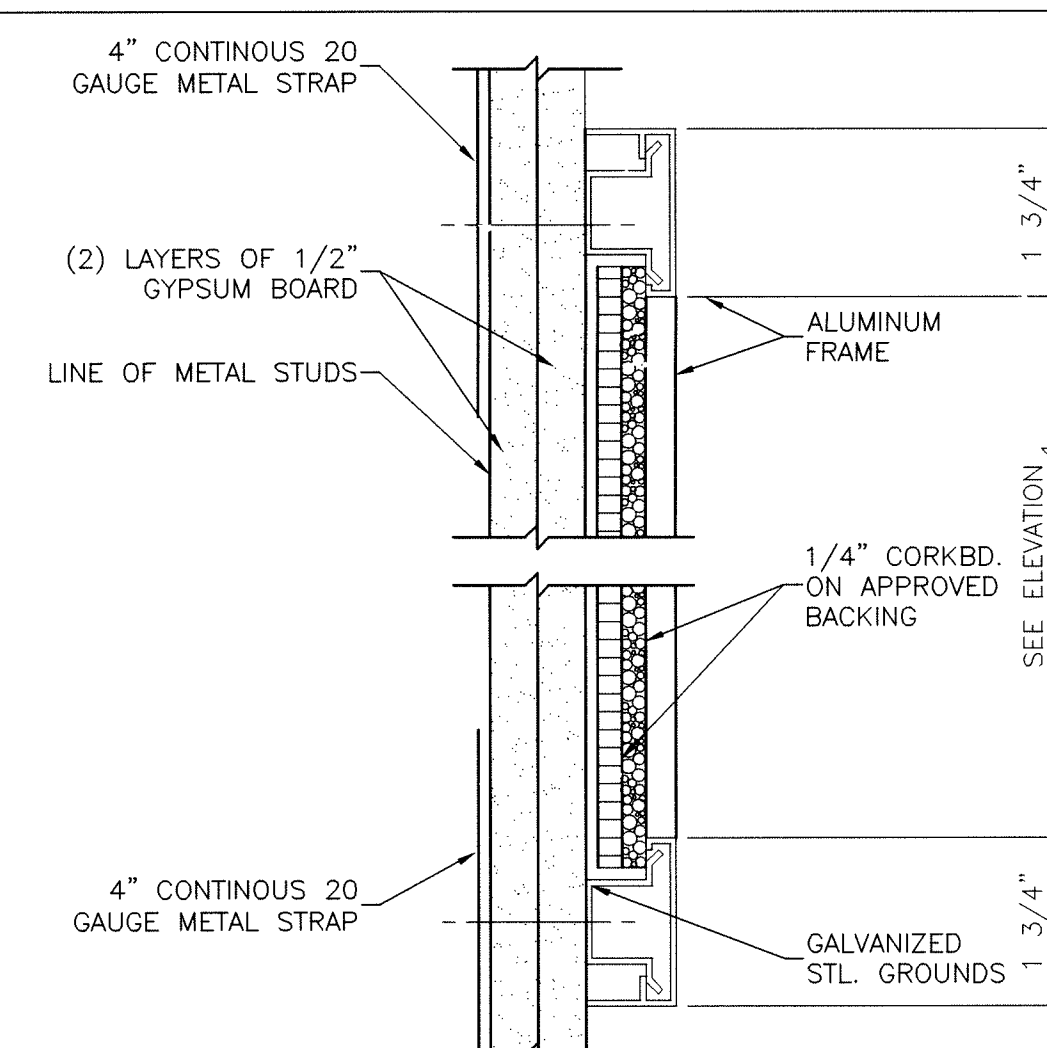
SEMI-RECESSED FIRE EXTINGUISHER CABINET
SCALE: 1 1/2" = 1'-0"



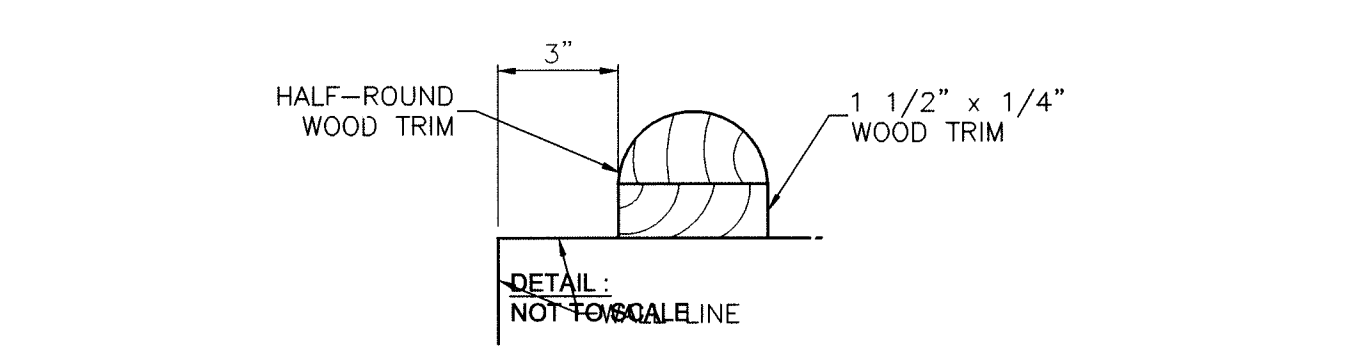
CAP DETAIL
SCALE: 1 1/2" = 1'-0"



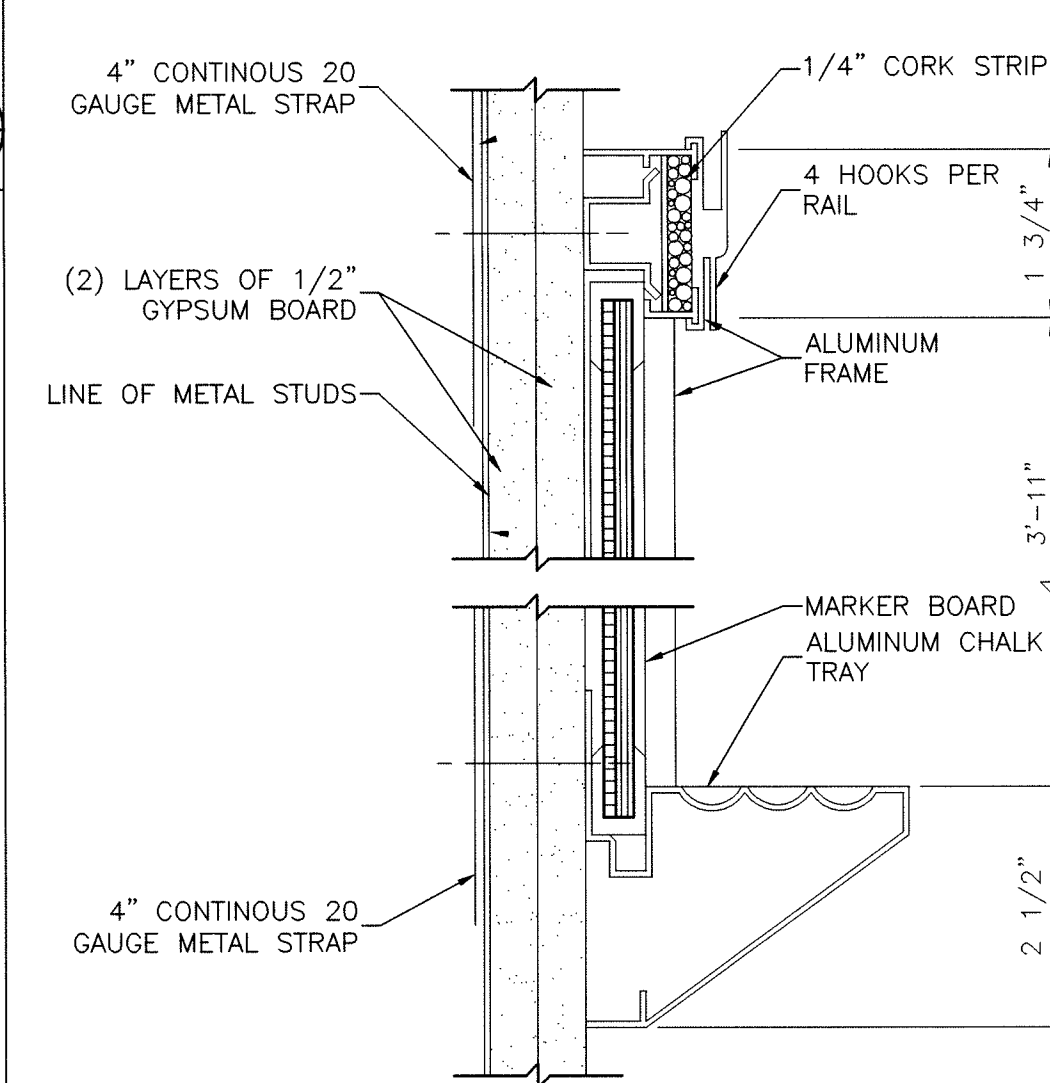
PAINTED GRAPHICS TRIM DETAIL
SCALE: 1/4" = 1'-0"



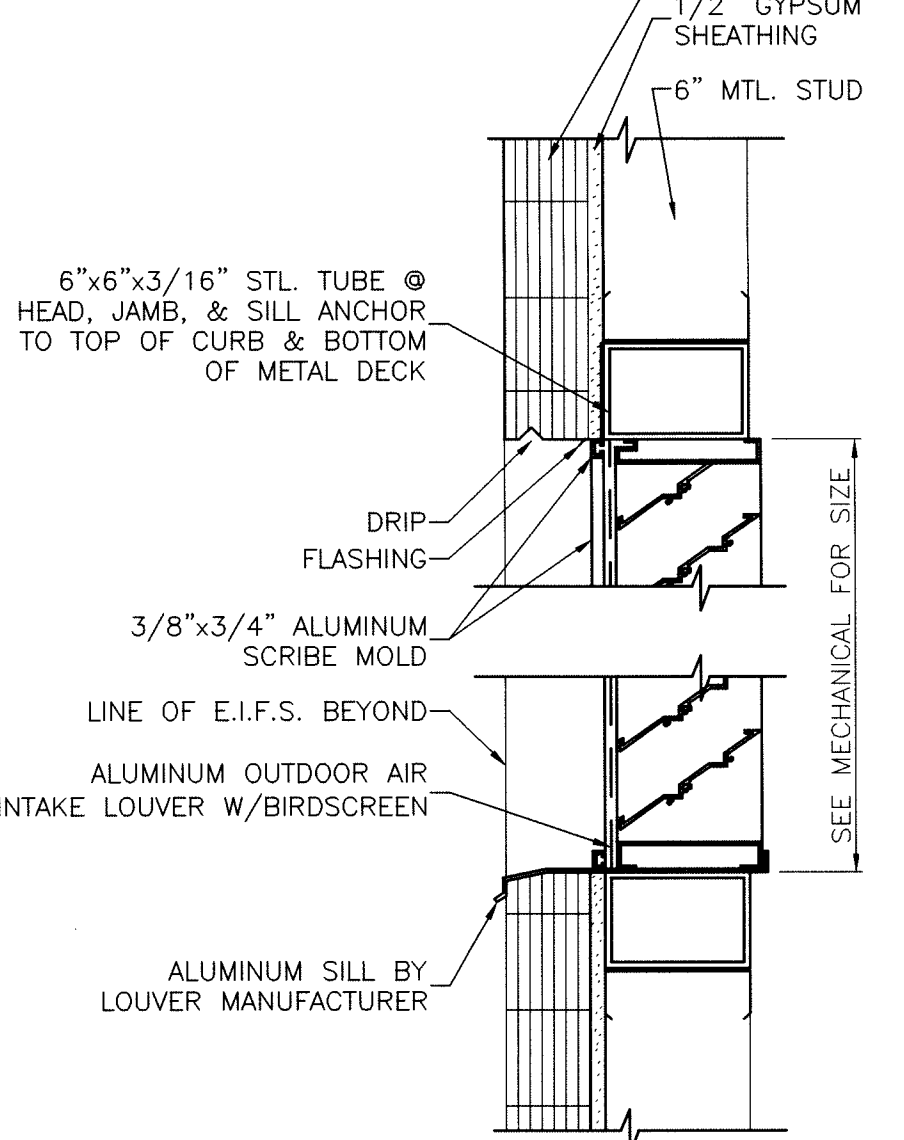
CORKBOARD DETAIL
SCALE: 6" = 1'-0"



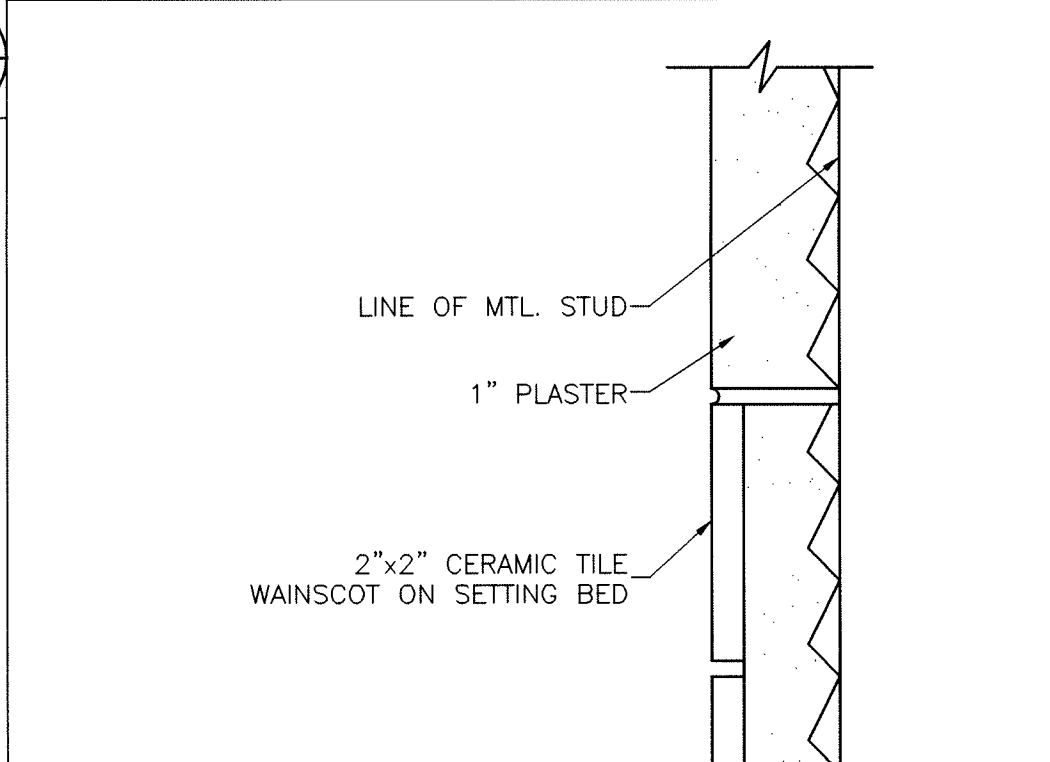
ACCESSIBLE FACILITIES
SCALE: 1/4" = 1'-0"



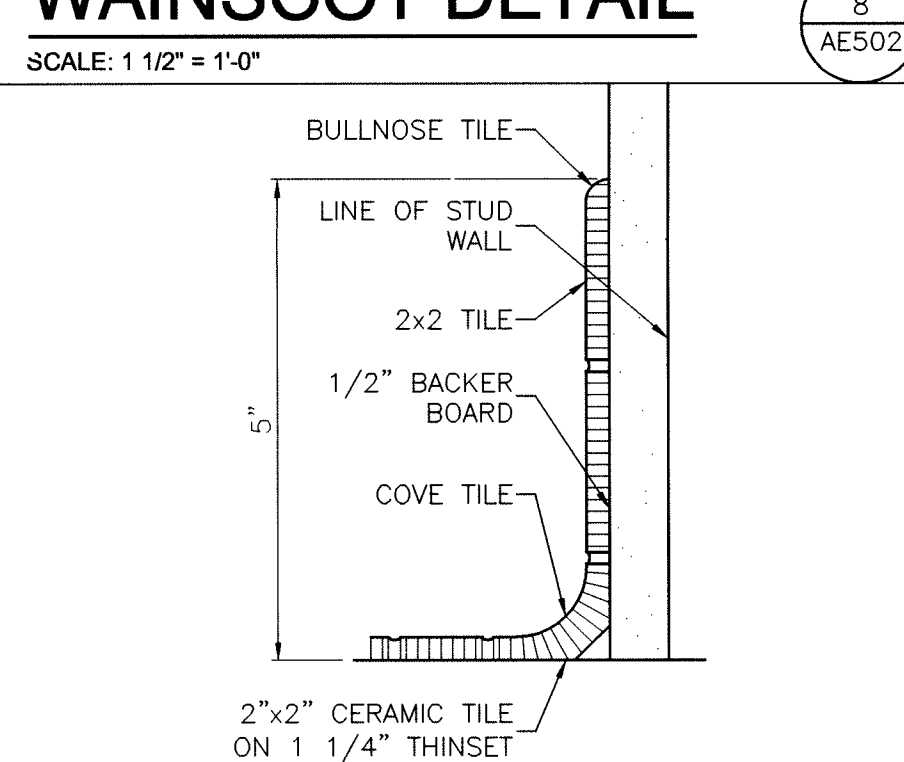
MARKERBOARD DETAIL
SCALE: 6" = 1'-0"



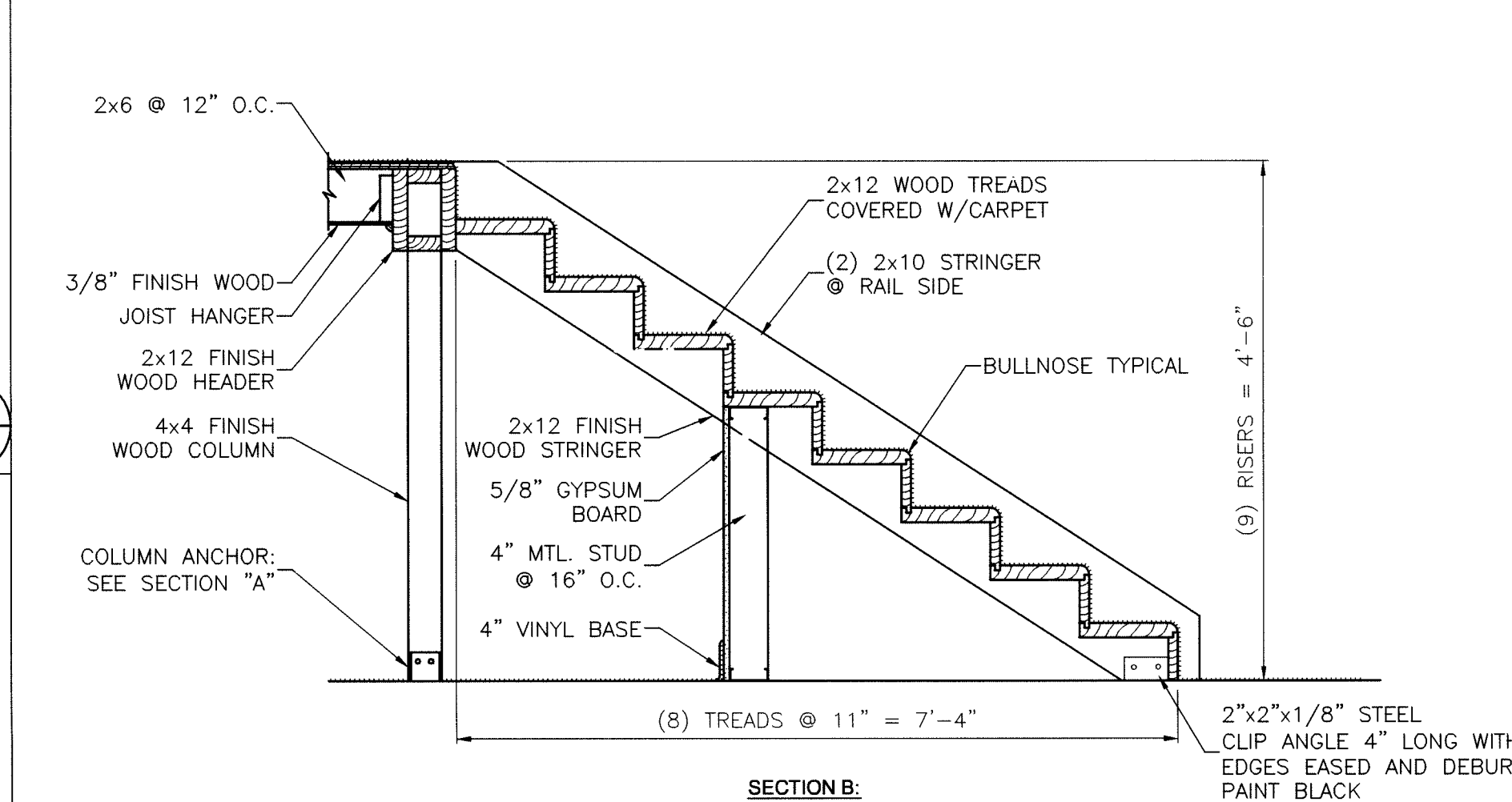
SAFETY CUSHION WAINSCOT DETAIL
SCALE: 1 1/2" = 1'-0"



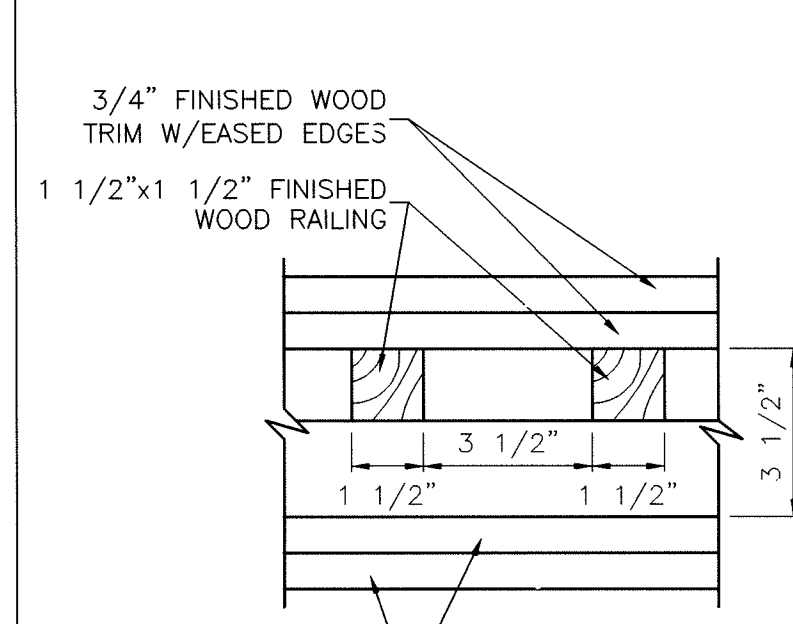
CERAMIC TILE WAINSCOT
SCALE: 6" = 1'-0"



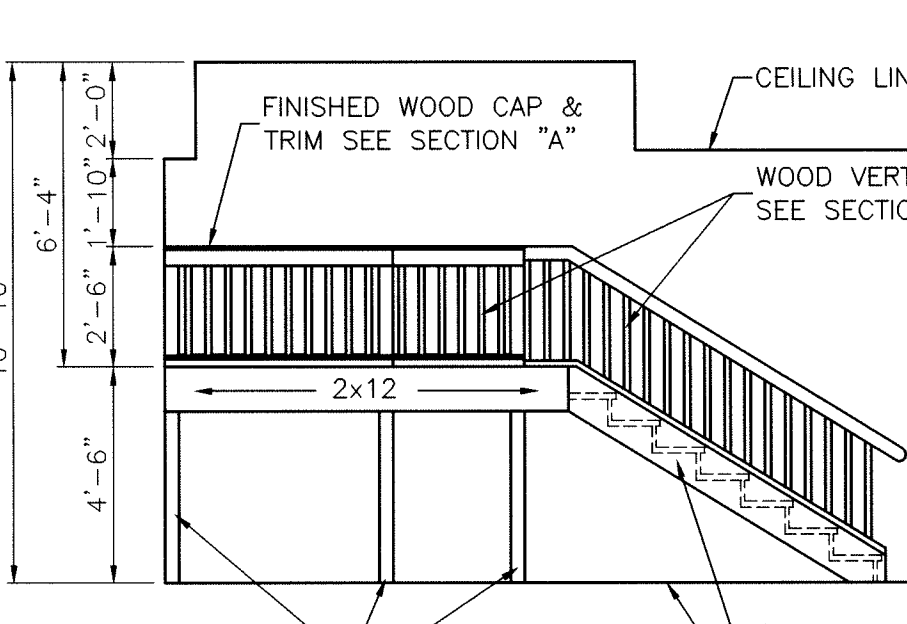
CERAMIC TILE BASE
SCALE: 6" = 1'-0"



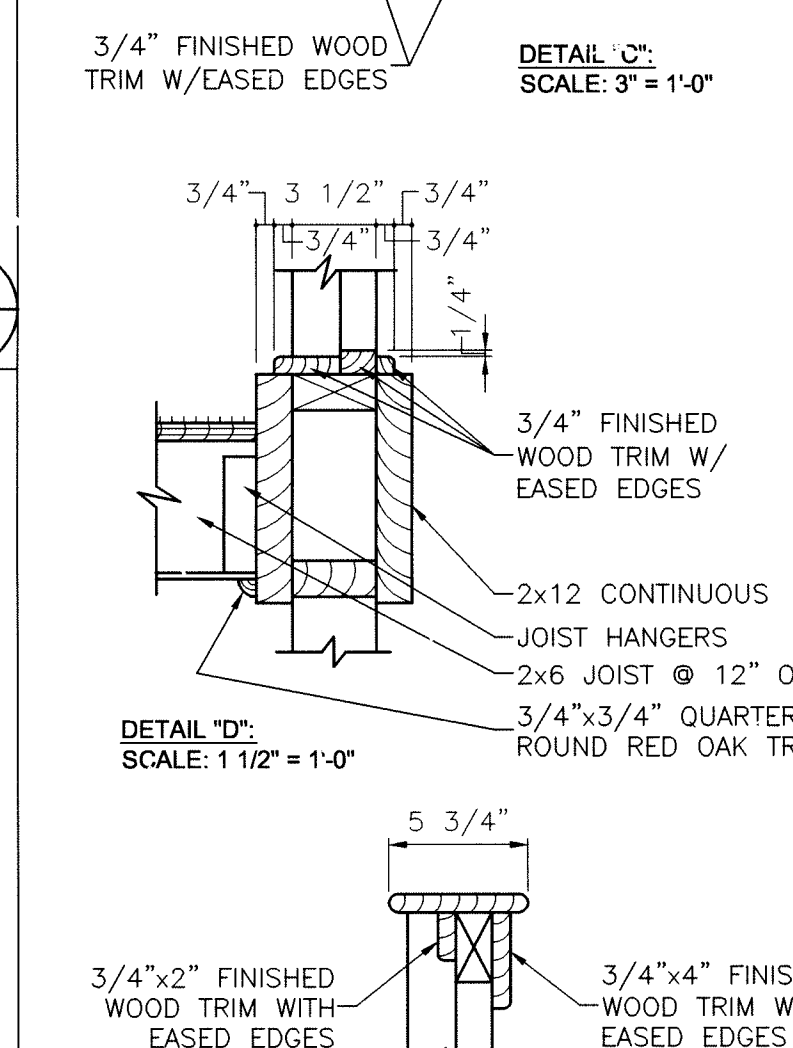
SECTION "B":
SCALE: 3/4" = 1'-0"



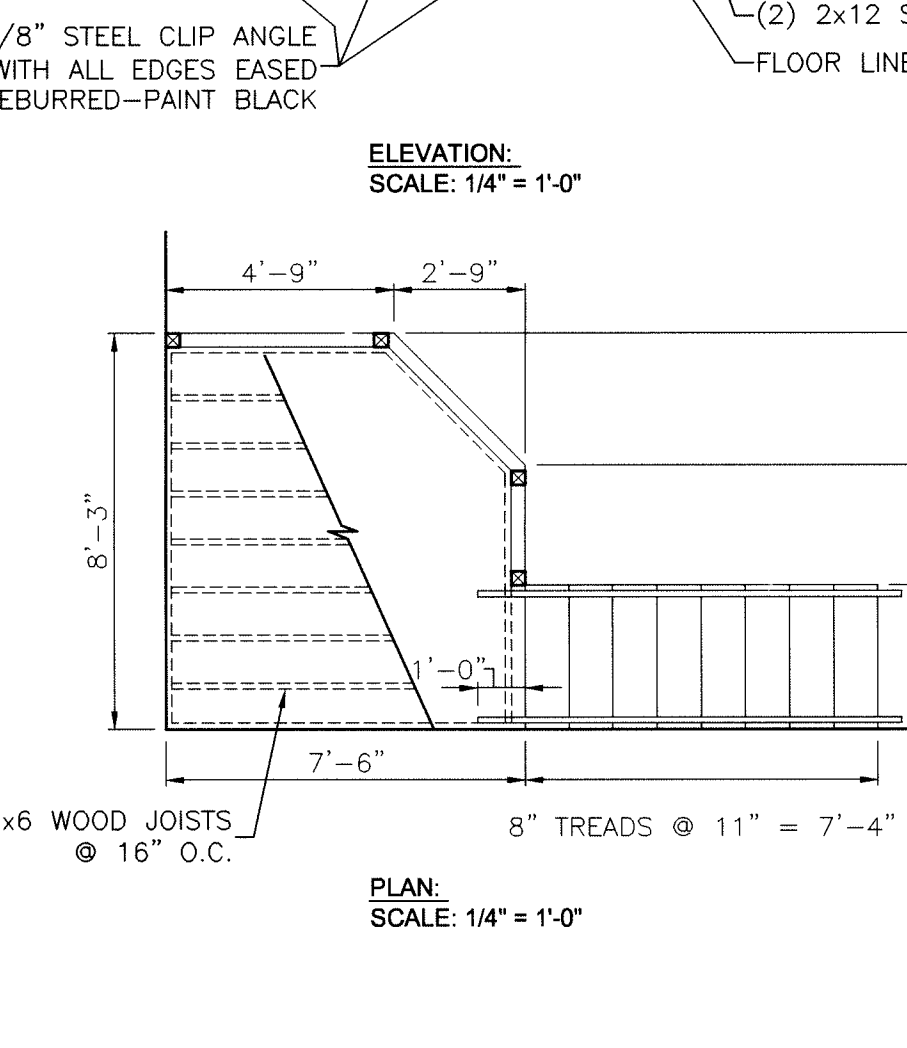
DETAIL "C":
SCALE: 3" = 1'-0"



ELEVATION:
SCALE: 1/4" = 1'-0"

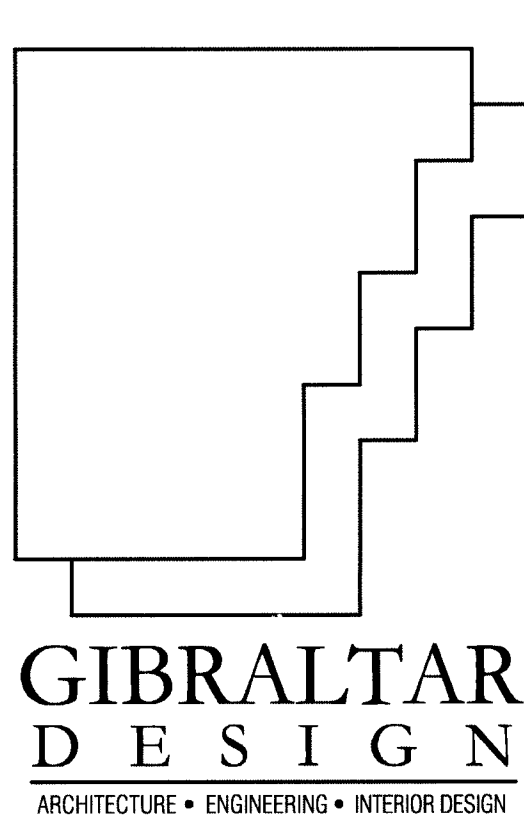


DETAIL "D":
SCALE: 1 1/2" = 1'-0"



PLAN:
SCALE: 1/4" = 1'-0"

LOFT DETAILS
SCALE: AS NOTED



PROJECT

**LAWRENCE
CENTRALIZED
KINDERGARTEN**

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

GIBRALTAR DESIGN

9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage www.GibraltarDesign.com
Email info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT
02-580

DATE
04/21/03

COORDINATED BY
LDH

DRAWN BY
SCP

CHECKED BY
LDH

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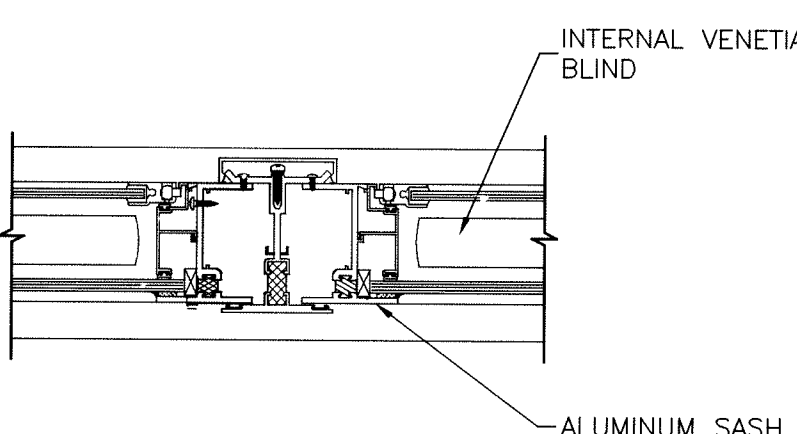
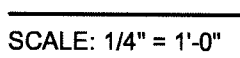
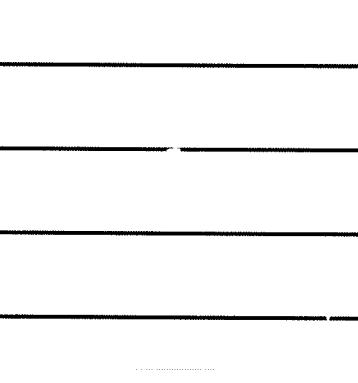
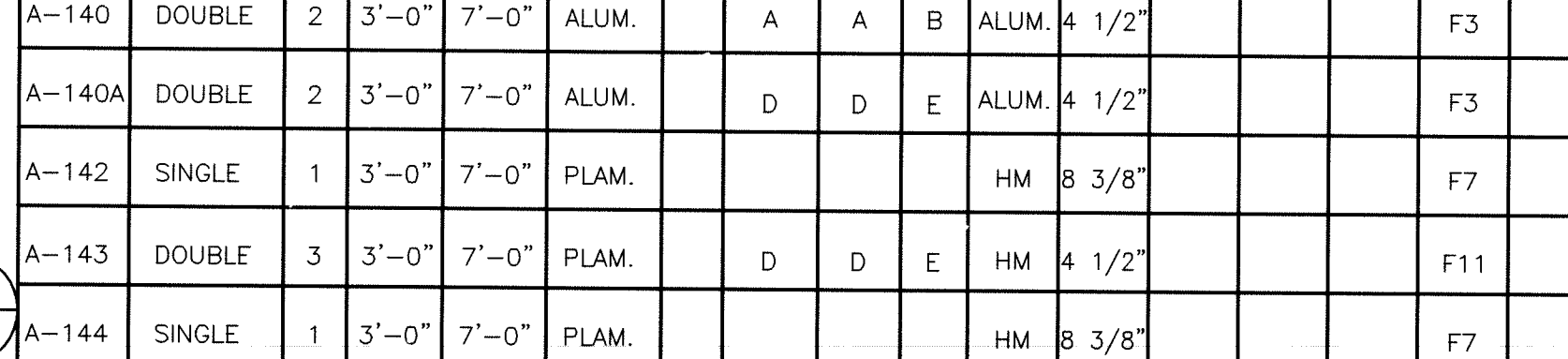
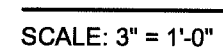
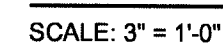
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MARK	DATE	ISSUED FOR
	04/21/03	CD BID SET ISSUED

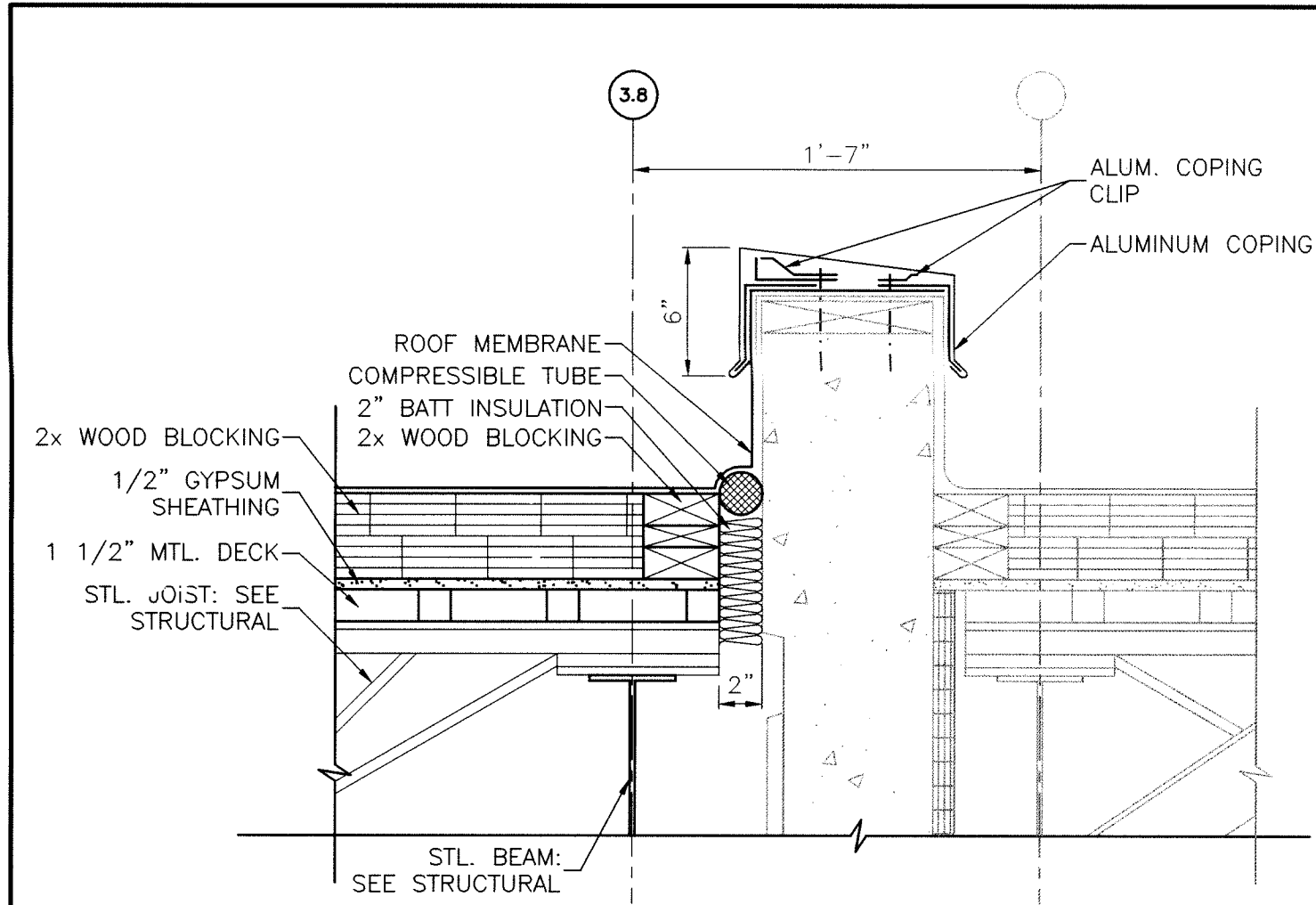
DRAWING
DETAILS

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

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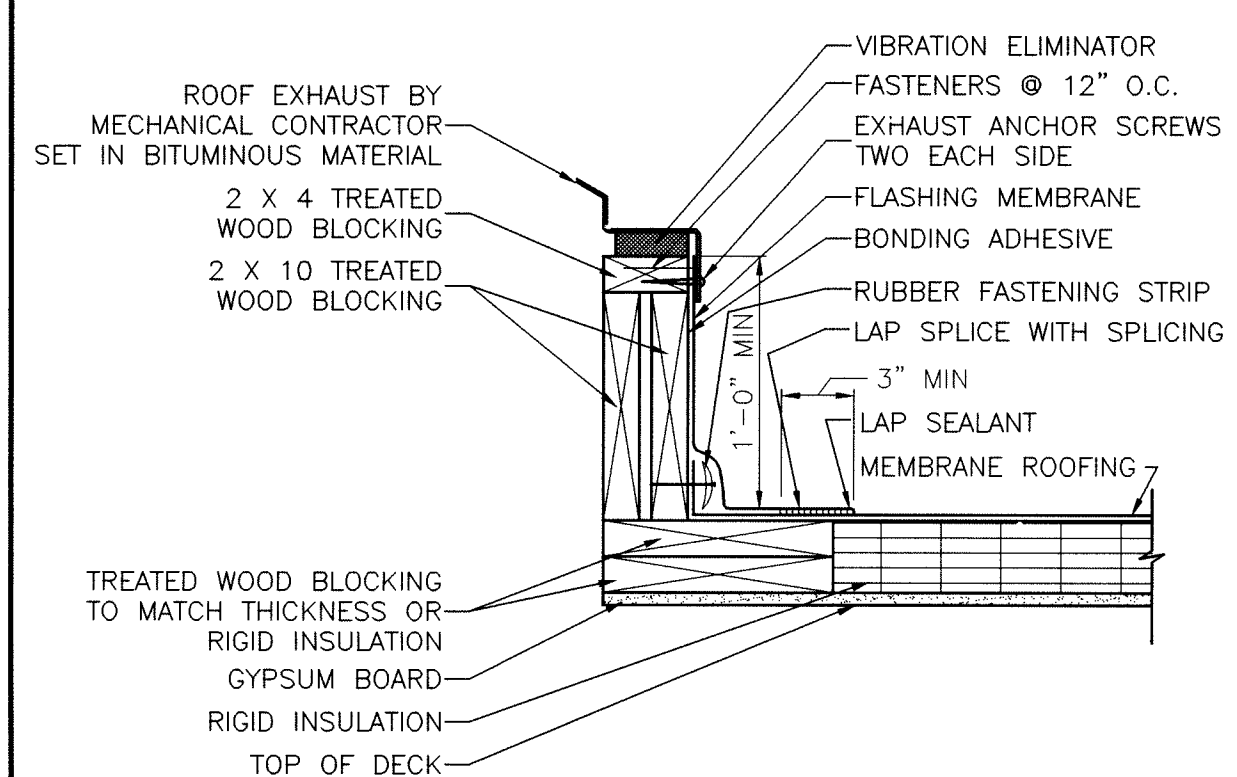
N AE502





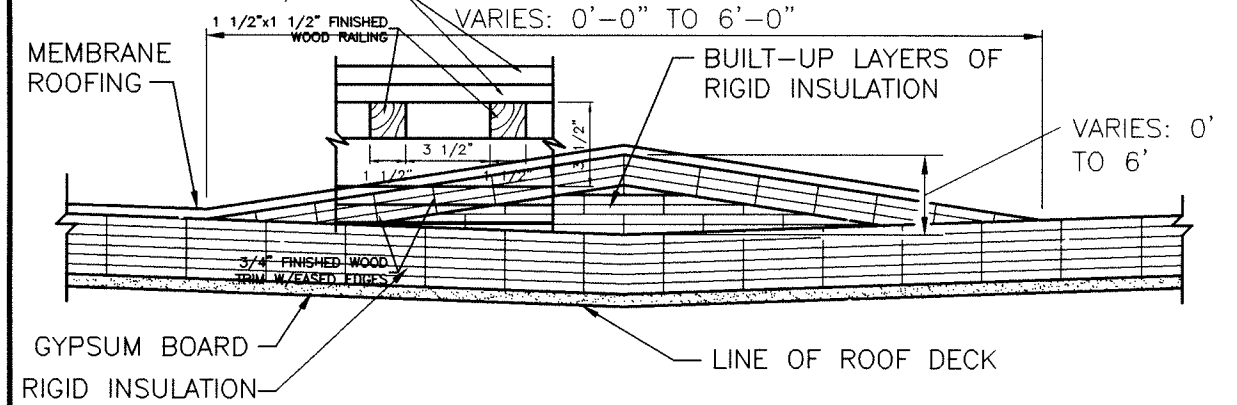
ROOF PARAPET DETAIL

SCALE: 1 1/2" = 1'-0"



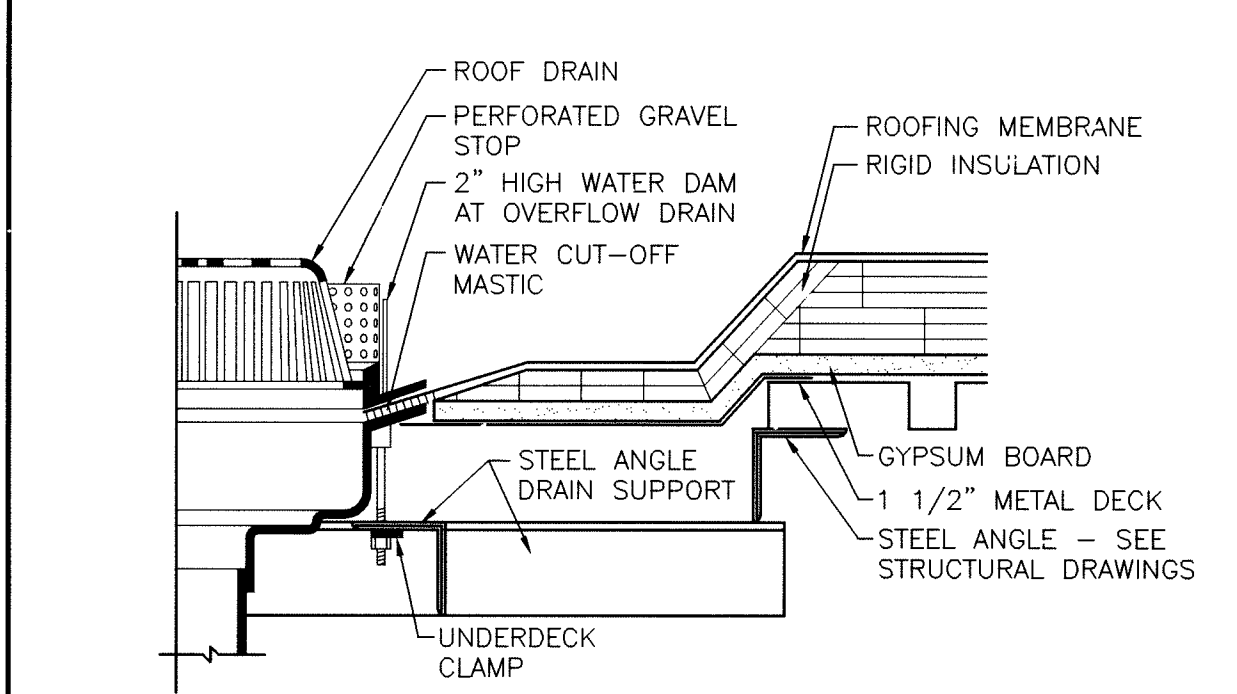
ROOF CURB DTL.

SCALE: 1 1/2" = 1'-0"



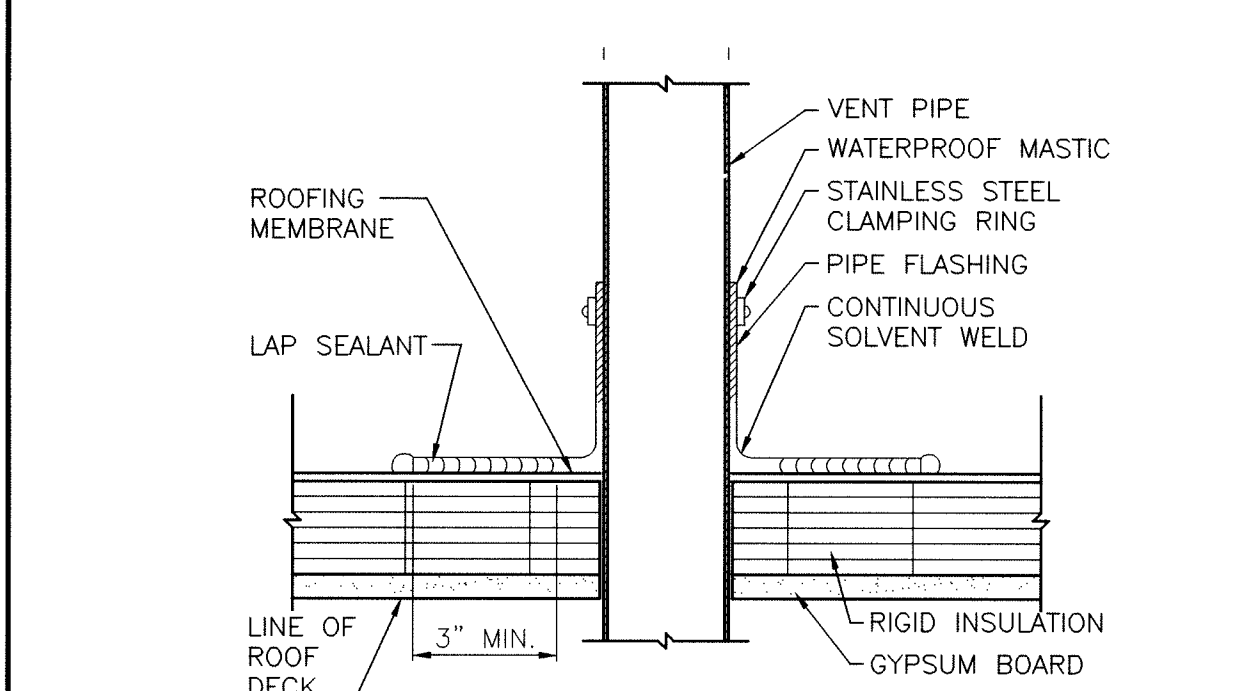
ROOF SADDLE DETAIL

SCALE: 1 1/2" = 1'-0"



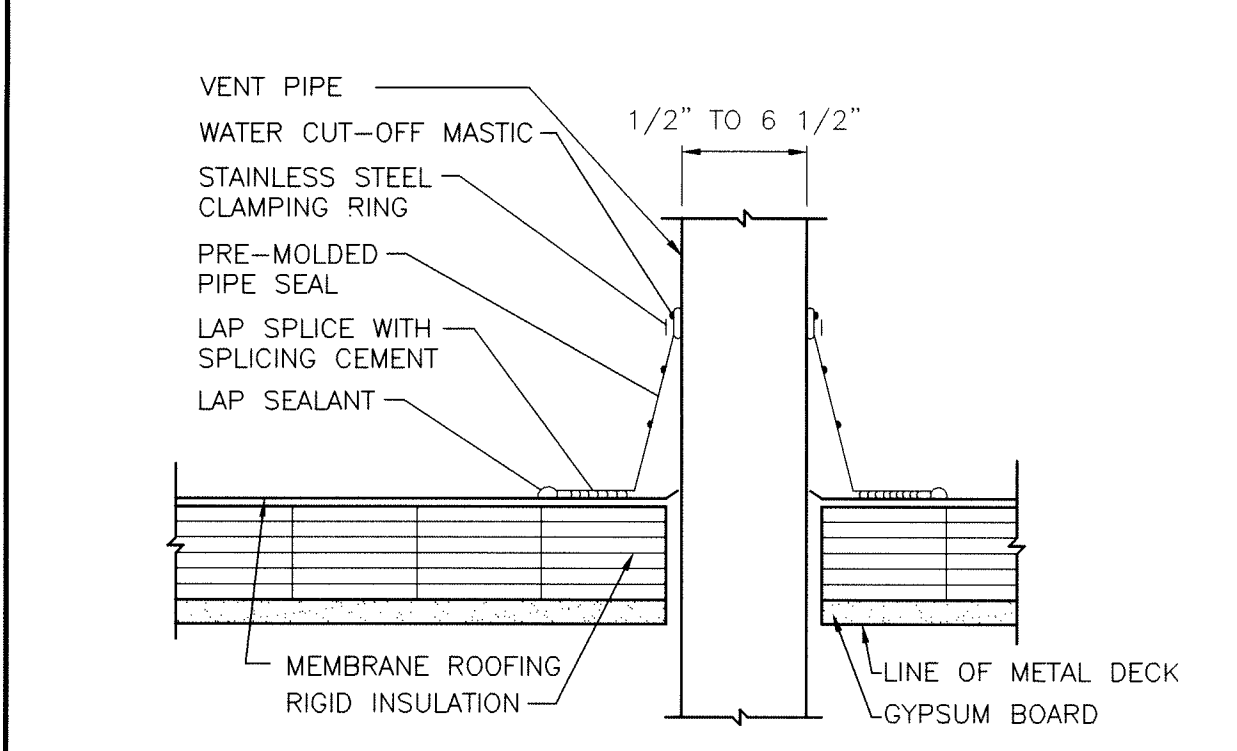
ROOF/OVERFLOW DRAIN

SCALE: 3" = 1'-0"



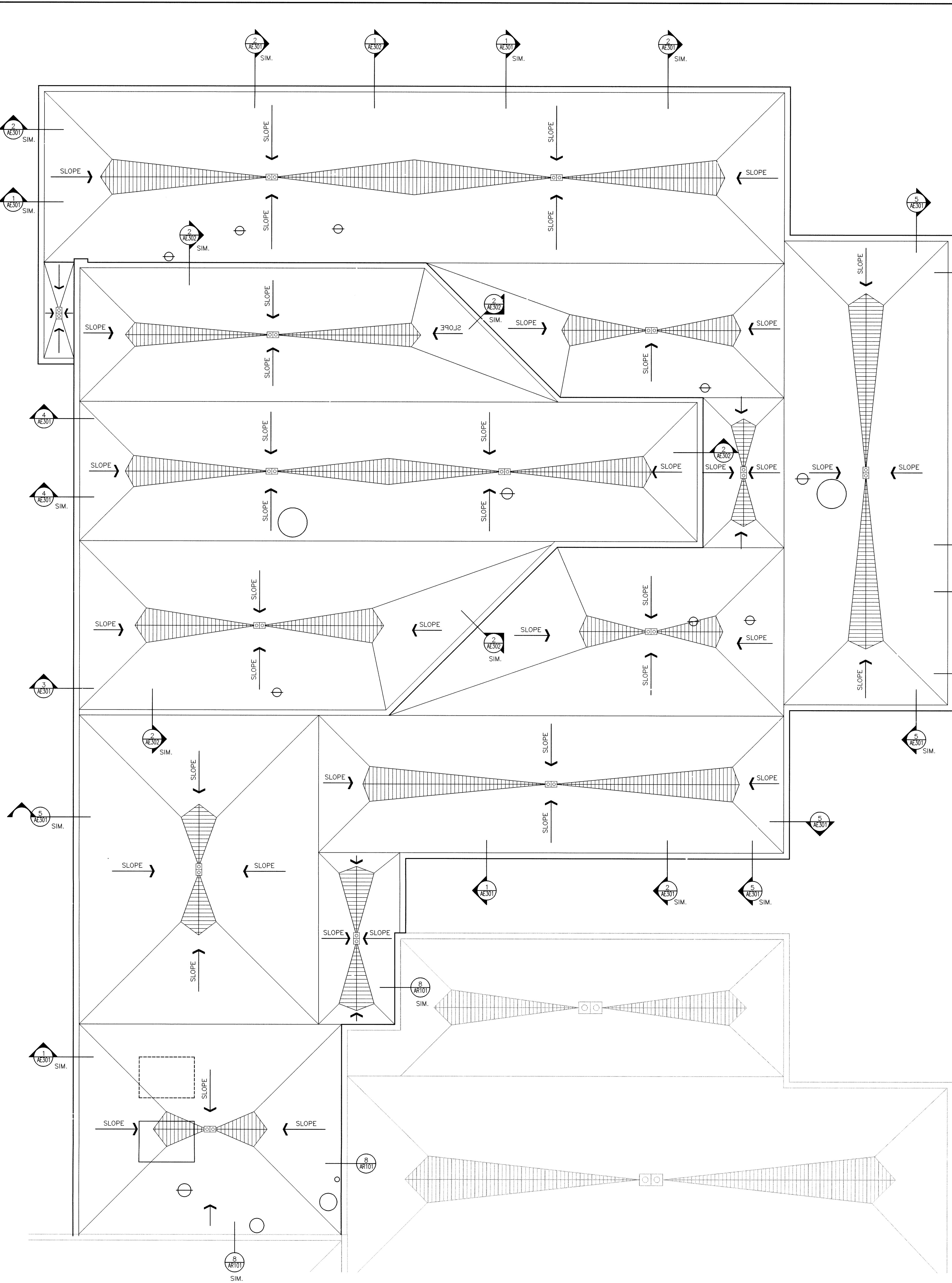
VENT FLASHING DETAIL

SCALE: 3" = 1'-0"



VENT FLASHING DETAIL

SCALE: 3" = 1'-0"



ROOF LEGEND:

- ELEVATION TOP OF NEW ROOF DECK
- RELIEF VENT
- EXHAUST FAN
- GRAVITY VENT
- ROOF DRAIN
- PLUMBING VENT
- PITCH POCKET
- ROOF DRAINAGE SADDLE
- PENTHOUSE
- ELEVATION TOP OF EXISTING ROOF DECK
- EXISTING RELIEF VENT
- EXISTING EXHAUST FAN
- EXISTING GRAVITY VENT
- EXISTING ROOF DRAIN
- EXISTING PLUMBING VENT
- EXISTING PITCH POCKET
- EXISTING ROOF DRAINAGE SADDLE
- EXISTING PENTHOUSE

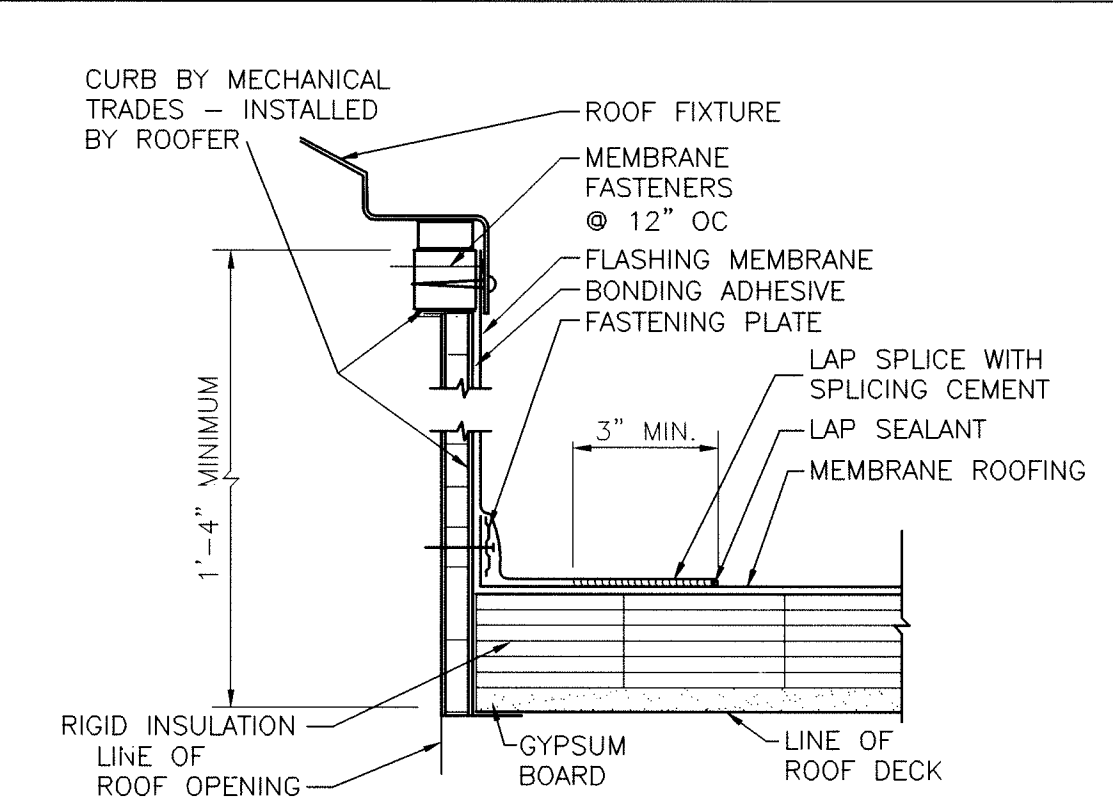
ROOFING NOTES:

- ALL DIMENSIONS INDICATED ON THE ROOF PLAN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ACCURATE FIELD MEASUREMENTS FOR THE EXECUTION OF HIS WORK AND PRIOR TO ANY FABRICATION OF THE VARIOUS MATERIALS.
- LOCATION AND QUANTITY OF ALL ROOF DRAINS, FLUES, VENTS, POWER AND GRAVITY VENTILATORS, ETC., SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
- DEMOLITION AND REMOVAL OPERATIONS ARE TO BE PERFORMED CAREFULLY AND ALL PORTIONS OF THE BUILDING SHALL BE PROTECTED DURING THESE OPERATIONS. ITEMS TO BE REUSED AND REINSTALLED ARE TO BE CAREFULLY REMOVED AND STORED. DAMAGES INCURRED DURING REMOVAL OR STORAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- EXTEND ALL PLUMBING VENTS SO THAT THE TOP IS A MINIMUM OF 12" ABOVE THE ROOFING MEMBRANE.
- REMOVE ALL POWER VENTILATORS, FANS AND GRAVITY VENTILATORS. REPLACE ALL DETERIORATED, LOOSE, OR FAULTY WOOD BLOCKING. REPLACE AND EXTEND CURBS WITH NEW TREATED WOOD BLOCKING WITH TOP AT 12" MINIMUM ABOVE THE NEW ROOFING MEMBRANE. REINSTALL FANS AND VENTILATORS WITH "KORFUND ELASTO-RIB" VIBRATION ELIMINATOR, SET ON THE CURB TOP OF ALL POWER DRIVEN FANS AND VENTS.
- FLASHING OF ALL VENTS, FAN CURBS, MASONRY WALLS, FLUES, DRAINS, FASCIAS, ETC., SHALL BE PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS AND DRAWINGS, AND WITH ROOFING MANUFACTURERS' STANDARD DETAILS AND SPECIFICATIONS.
- REMOVE ALL EXISTING ROOF GRAVEL, RESIDUE, AND ALL PROJECTIONS WHICH WOULD PREVENT THE NEW ROOF INSULATION FROM LAYING FLAT OVER THE EXISTING ROOF SURFACES.
- REMOVE AND CLEAN ROOF DRAIN STRAINERS AND CLAMP RINGS. REINSTALL AFTER NEW ROOF INSULATION AND ROOFING MEMBRANE ARE IN PLACE. ANY BROKEN OR MISSING ROOF DRAIN STRAINER SHALL BE REPLACED WITH A NEW STRAINER.

WARNING:

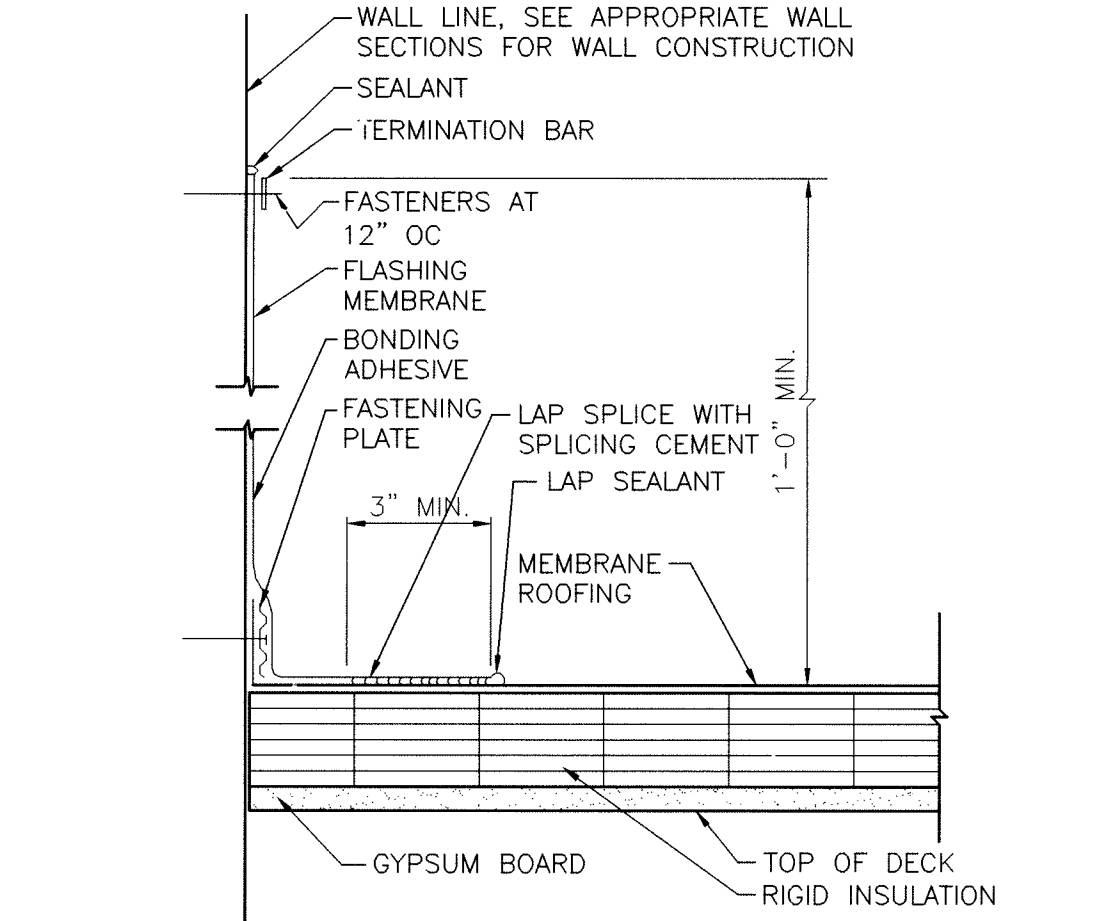
THERE MAY BE LOCATIONS ON THE EXISTING ROOF WHERE THE EXISTING ROOF DECK MAY NOT BE STRUCTURALLY SOUND. CONTRACTORS SHOULD USE EXTREME CAUTION IN WORKING THESE ROOF AREAS TO MAINTAIN SAFE WORKING CONDITIONS.

THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ALL DAMAGE CAUSED BY THE IMPROPER STORAGE OR STACKING OF ROOFING MATERIALS.



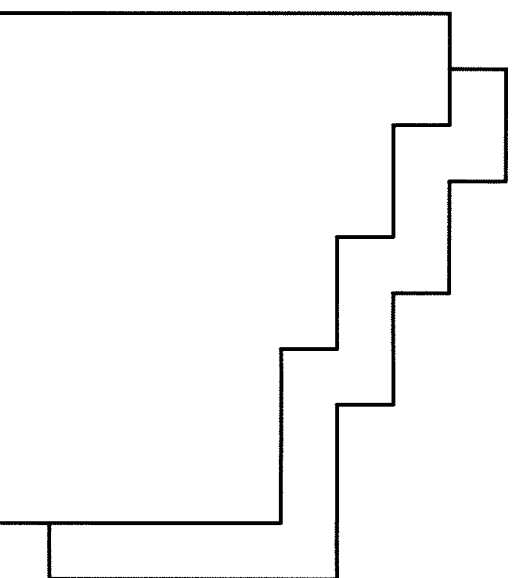
ROOF FIXTURE CURB DTL.

SCALE: 3" = 1'-0"



ROOF FLASHING DETAIL

SCALE: 3" = 1'-0"



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ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

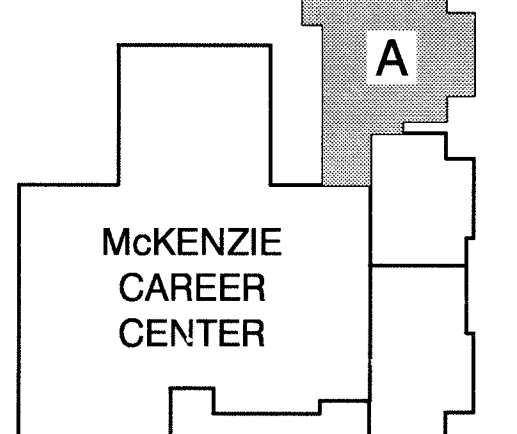
PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



KEY PLAN

GIBRALTAR DESIGN

9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
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Phone: 317.580.5777 Fax: 317.580.5778

PROJECT 02-580

DATE 04/21/03

COORDINATED BY JDH

DRAWN BY SCP

CHECKED BY JDH

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REVISIONS

MARK DATE ISSUED FOR

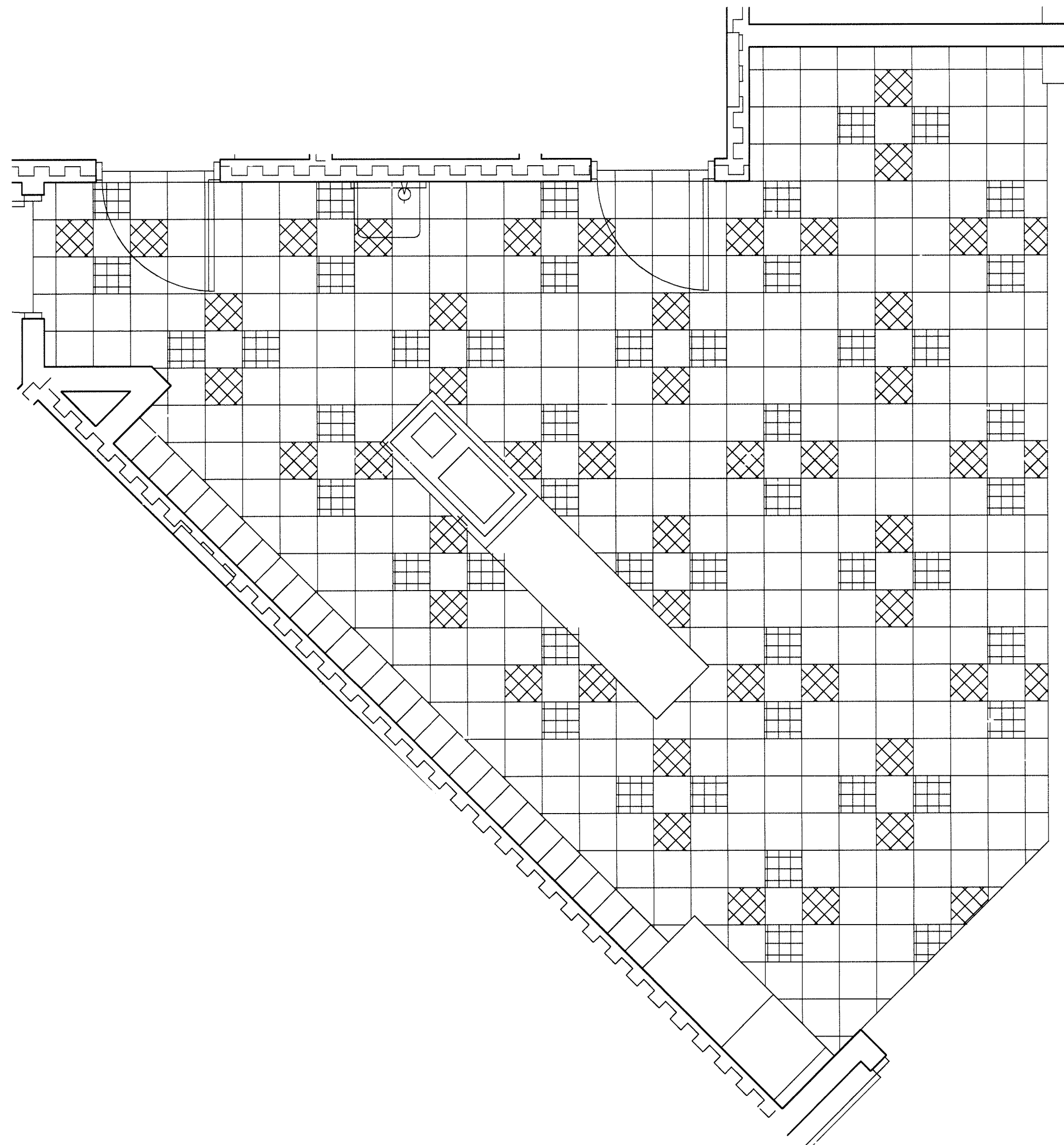
04/21/03 CD BID SET ISSUED

DRAWING
ROOF PLAN

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

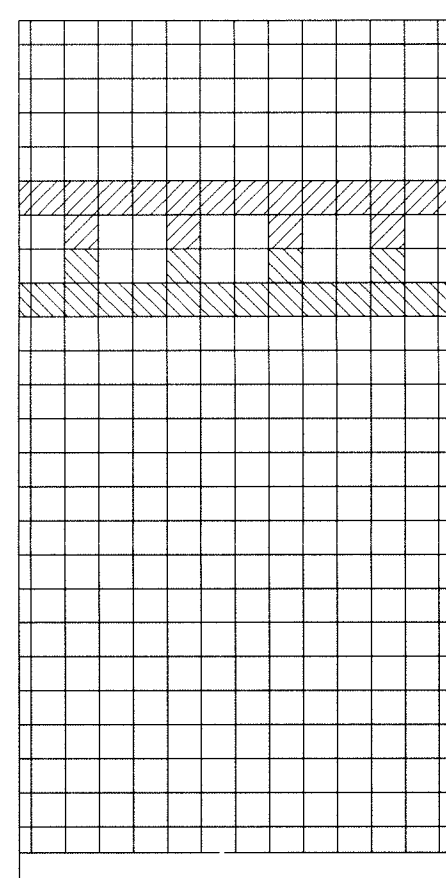
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N AR101



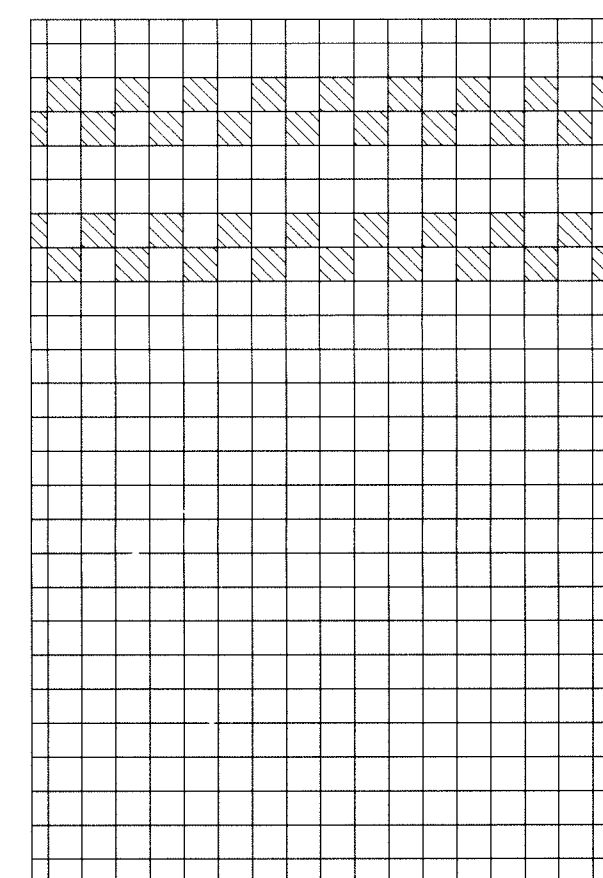
KINDERGARTEN A-121, KINDERGARTEN A-125,
KINDERGARTEN A-128, KINDERGARTEN A-132,
KINDERGARTEN A-135, AND KINDERGARTEN A-139
FLOOR TILE PATTERN

SCALE: 3/8" = 1'-0"



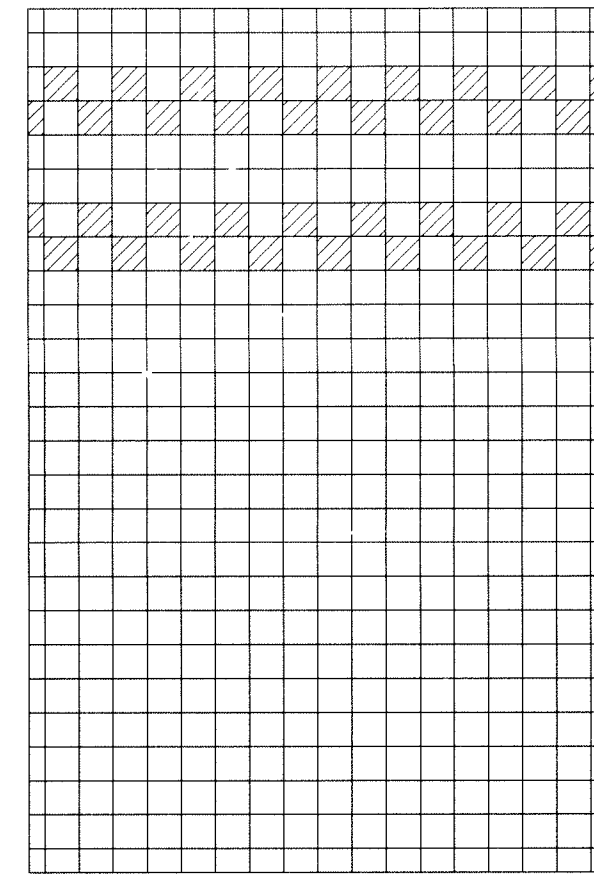
CORRIDOR A-141,
CORRIDOR A-149,
AND TOILET A-106
WALL TILE PATTERNS

SCALE: 1/2" = 1'-0"



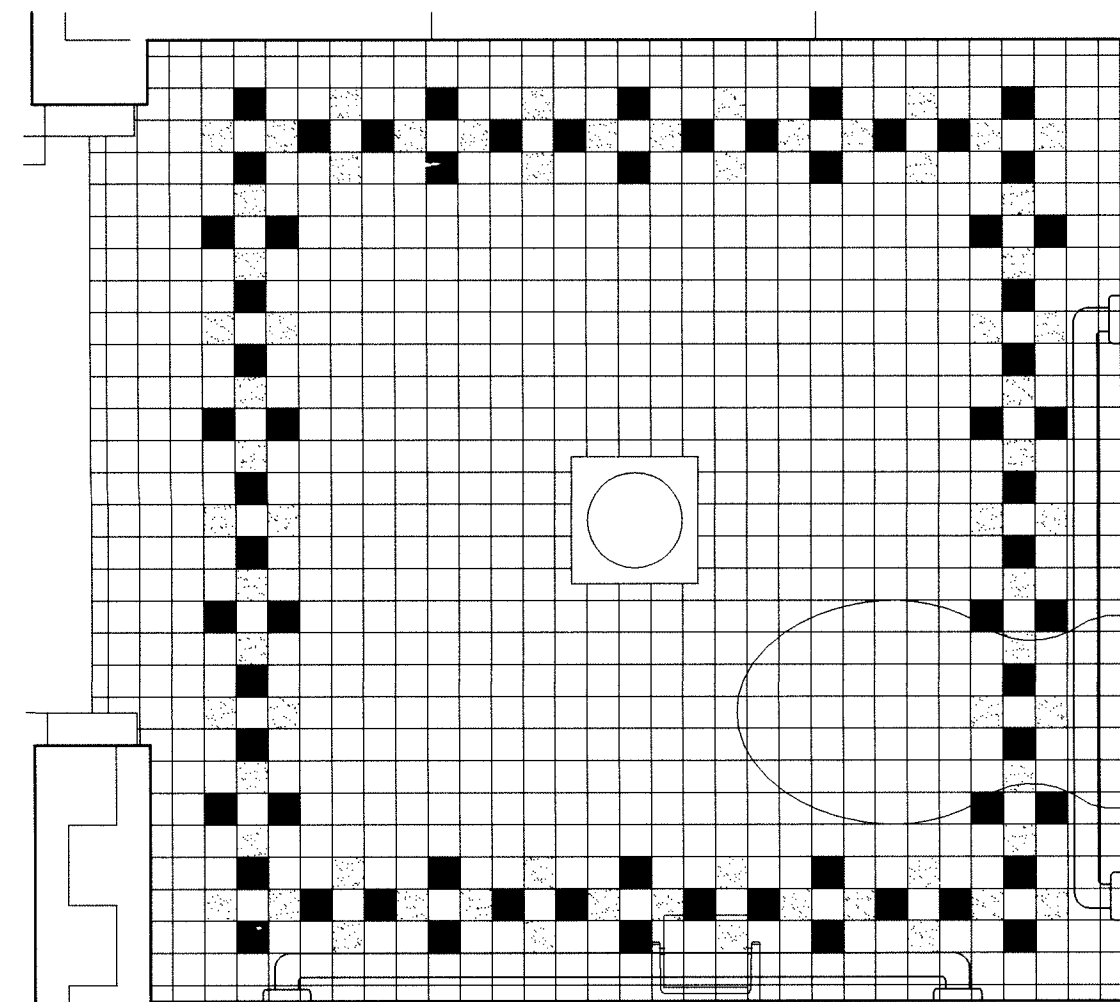
TOILET A-124, TOILET
A-131, TOILET A-138,
AND MEN'S A-145
WALL TILE PATERN

SCALE: 1/2" = 1'-0"



TOILET A-122, TOILET
A-129, TOILET A-136,
AND WOMEN'S A-146
WALL TILE PATERN

SCALE: 1/2" = 1'-0"



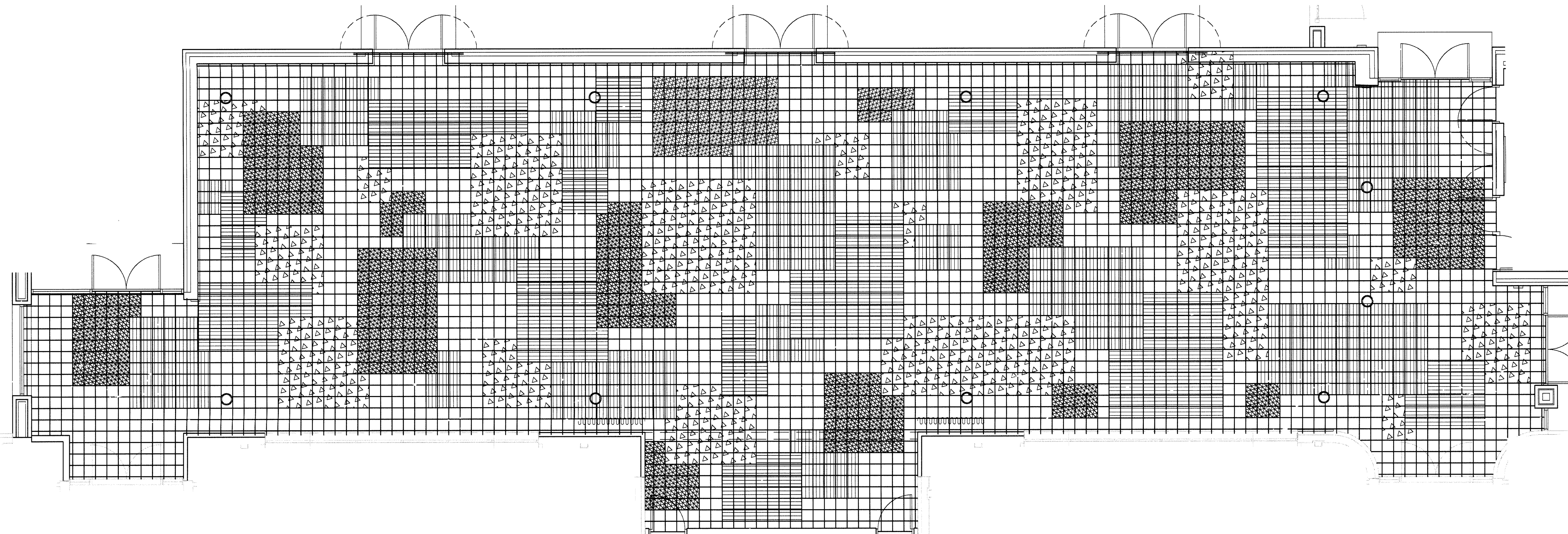
TOILET A-122, TOILET A-124, TOILET
A-129, TOILET A-131, TOILET A-136, AND
TOILET A-138 FLOOR TILE PATTERN

SCALE: 1" = 1'-0"



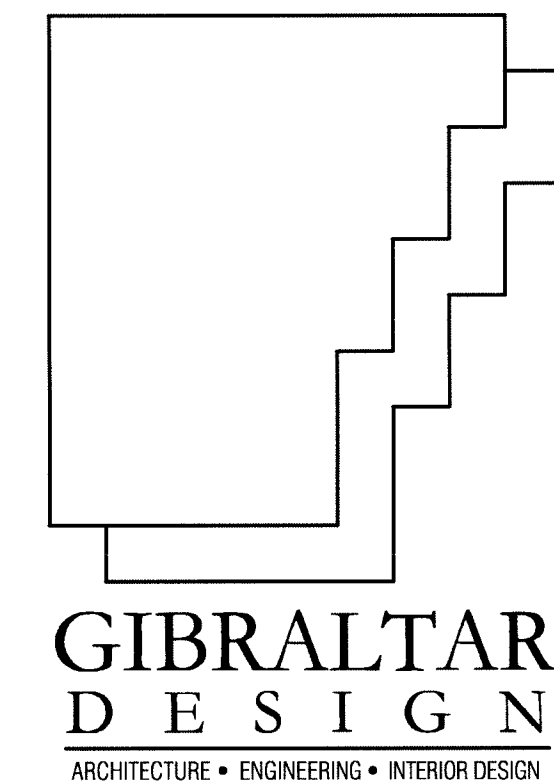
EAT N' PLAY A-115,
CORRIDOR A-141,
CORRIDOR A-148,
CORRIDOR A-149, AND
CORRIDOR A-150 FLOOR
TILE PATTERNS

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



EAT N' PLAY A-102 FLOOR TILE
PATTERN - SOUTH CAMPUS

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



PROJECT

LAWRENCE
CENTRALIZED
KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

GIBRALTAR DESIGN

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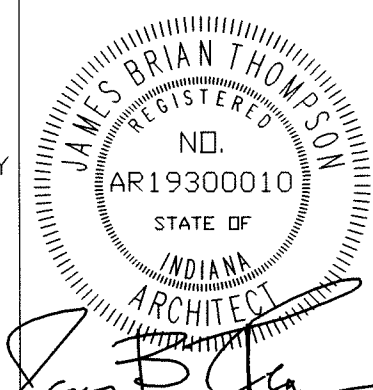
PROJECT
02-580

DATE
04/21/03

COORDINATED BY
LDH

DRAWN BY
LCB

CHECKED BY
JPL



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REVISIONS		
MARK	DATE	ISSUED FOR
	04/21/03	CD BID SET ISSUED

FINISH NOTES:

REFER TO SPECIFICATIONS
SECTION 09001 FOR MATERIAL
SPECIFICATIONS.

UNLESS OTHERWISE NOTED FLOOR AND WALL
PATTERNS SHOWN ARE FOR THE NORTH CAMPUS

KINDERGARTEN NORTH CAMPUS
PATTERN HATCHES

VINYL COMPOSITION TILE		WALL TILE	FLOOR TILE
VCT-1		VCT-4	
VCT-2		CWT-1	
VCT-3		CWT-2	
		CWT-3	

KINDERGARTEN SOUTH CAMPUS
PATTERN HATCHES

VINYL COMPOSITION TILE	
VCT-1	
VCT-2	
VCT-3	

DRAWING
FLOOR & WALL PATTERNS

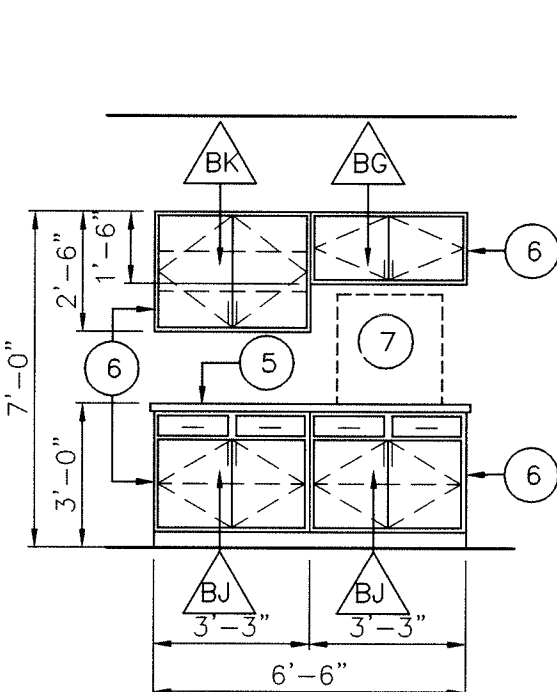
PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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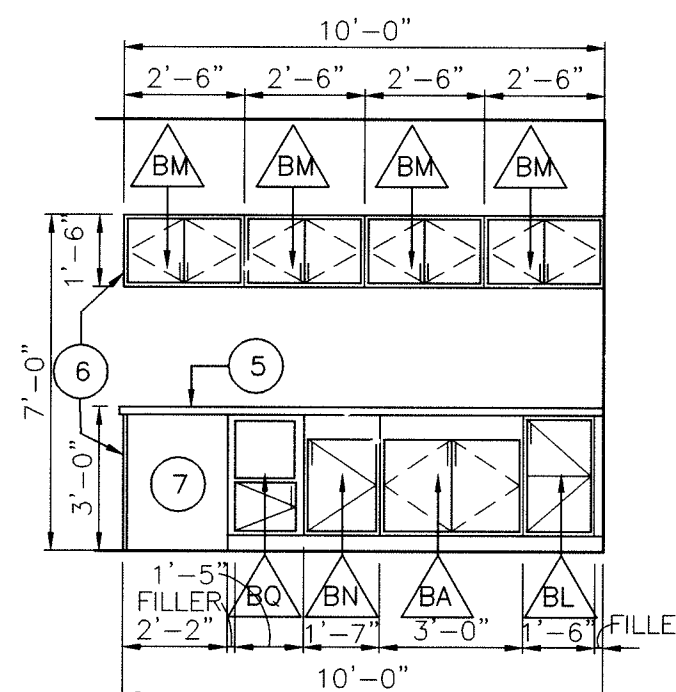
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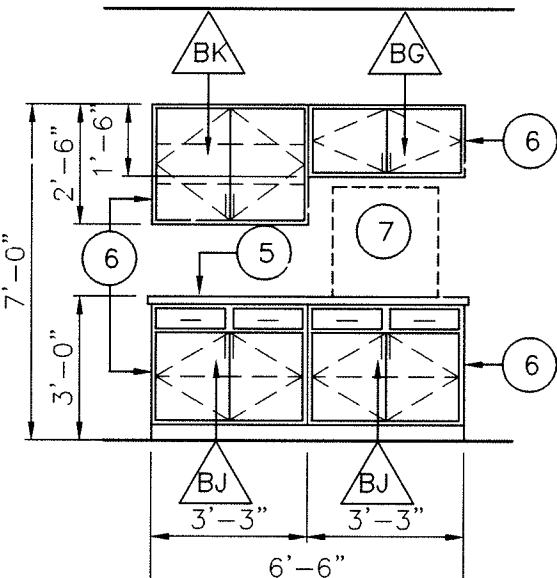
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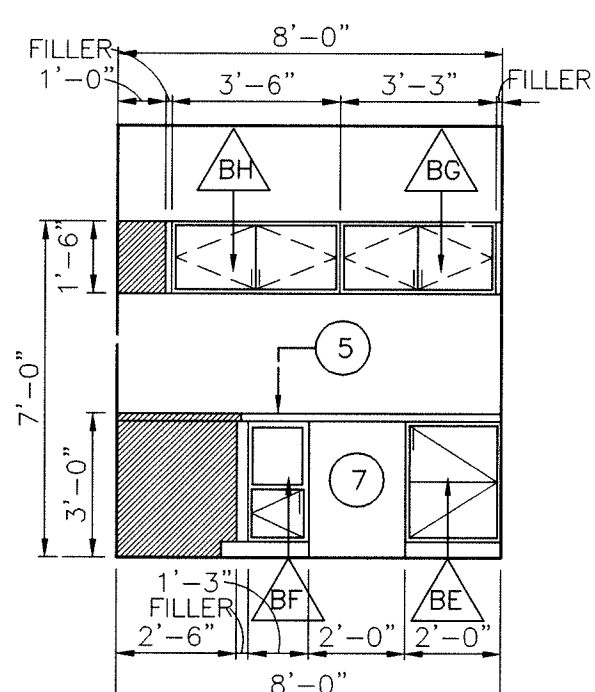
ELEVATION
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ROOM: SERVING A-104 KINDERGARTEN SOUTH



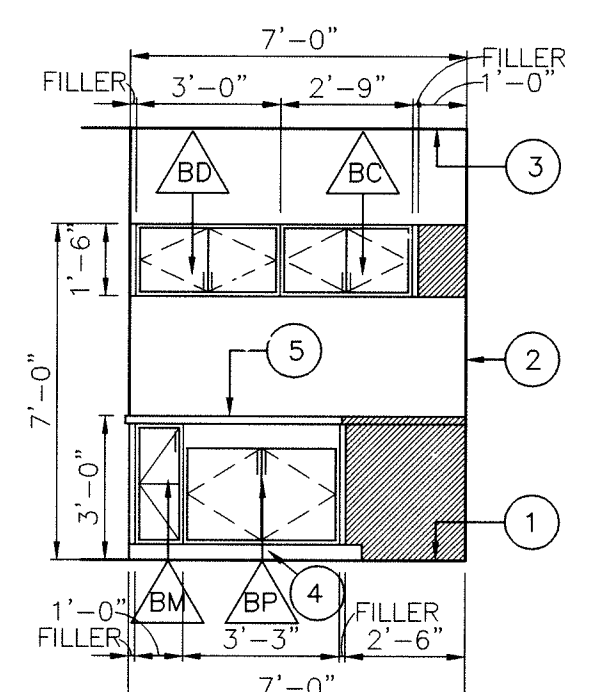
ELEVATION
SCALE: 1/4"=1'-0"
ROOM: SERVING A-104 KINDERGARTEN SOUTH



ELEVATION
SCALE: 1/4"=1'-0"
ROOM: SERVING A-112 KINDERGARTEN NORTH



ELEVATION
SCALE: 1/4"=1'-0"
ROOM: SERVING A-112 KINDERGARTEN NORTH



ELEVATION
SCALE: 1/4"=1'-0"
ROOM: SERVING A-112 KINDERGARTEN NORTH

PLASTIC LAMINATE CASEWORK SCHEDULE

MARK	CATALOG NUMBER	WIDTH	DESCRIPTION
BA	10479	36"	36"H x 24"D 2 DOOR SINK BASE UNIT. COORDINATE WITH KITCHEN CONTRACTOR FOR LOCATION OF SINK CUTOUTS AS WELL AS SINK LOCATIONS.
BB	10121	12"	36"H x 24"D 1 DOOR BASE STORAGE UNIT LEFT HINGED
BC	15129	33"	18"H x 12"D 2 DOOR BASE STORAGE UNIT
BD	15129	36"	18"H x 12"D 2 DOOR BASE STORAGE UNIT
BE	10120	24"	36"H x 24"D 1 DOOR BASE STORAGE UNIT LEFT HINGED
BF	10121	15"	36"H x 24"D 1 DOOR BASE STORAGE UNIT LEFT HINGED PROVIDE WITH BLANK TOP PANEL FOR KITCHEN EQUIPMENT
BG	15129	39"	18"H x 12"D 2 DOOR WALL STORAGE UNIT
BH	15129	42"	18"H x 12"D 2 DOOR WALL STORAGE UNIT
BJ	10432	39"	36"H x 24"D 2 DOOR 2 DRAWER BASE STORAGE UNIT
BK	15129	39"	30"H x 12"D 2 DOOR WALL STORAGE UNIT
BL	10120	18"	36"H x 24"D 1 DOOR BASE STORAGE UNIT RIGHT HINGED
BM	15129	30"	18"H x 12"D 2 DOOR BASE STORAGE UNIT
BN	10477	18"	36"H x 24"D 1 DOOR SINK BASE STORAGE UNIT RIGHT HINGED
BP	10479	39"	36"H x 24"D 2 DOOR SINK BASE UNIT. COORDINATE WITH KITCHEN CONTRACTOR FOR LOCATION OF SINK CUTOUTS AS WELL AS SINK LOCATIONS.
BQ	10121	18"	36"H x 24"D 1 DOOR BASE STORAGE UNIT LEFT HINGED PROVIDE WITH

GENERAL NOTES

- APPLIES TO SHEET A1801 ELEVATIONS 18-22
- FOR SCHEDULING PURPOSES MODEL NUMBERS ARE TAKEN FROM STEVENS MANUFACTURING INC. AND ARE FOR CABINET REQUIREMENTS ONLY SEE SPECIFICATIONS FOR CONSTRUCTION METHODS.
 - WHERE CASEWORK REQUIRES SHIMMING, ONLY APPROVED METAL SHIMS SHALL BE USED.
 - ALL ADJOINING CABINETS SHALL BE ALIGNED.
 - FIELD VERIFY ALL DIMENSIONS.
 - ALL DIMENSIONS SHALL BE VERIFIED WITH CABINET MANUFACTURER.
 - ALL CABINETS LOCATED IN FRONT OF A PIPE CHASE SHALL HAVE REMOVABLE BACKS.
 - REFER TO ELECTRICAL DRAWINGS AND SCHEDULES FOR DEVICE TYPES, HEIGHTS, AND LOCATIONS.
 - REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADJOINING EQUIPMENT.
 - ALL EXPOSED ENDS ARE TO BE FINISHED.
 - ALL FILLER PANELS, TRIM AND MOLDING PROVIDED SHALL BE CONTINUOUS AS NECESSARY TO MAKE CASEWORK CONTINUOUS TO ADJACENT WALL, PARTITION, BULKHEAD, AND/OR CEILING.

KEY NOTES

- APPLIES TO SHEET A1801 ELEVATIONS 18-22
- SEE ELEVATION 18/A801 FOR TYPICAL KEYNOTES UNLESS OTHERWISE NOTED.
- LINE OF FINISHED FLOOR
 - WALL LINE
 - CEILING LINE
 - TOE SPACE
 - 30" DEEP STAINLESS STEEL COUNTERTOPS AND BACKSPLASHES PROVIDED BY KITCHEN CONTRACTOR
 - FINISHED END
 - EQUIPMENT BY KITCHEN CONTRACTOR
 - ELECTRICAL DEVICE BY DIVISION 16

WOOD CASEWORK SCHEDULE

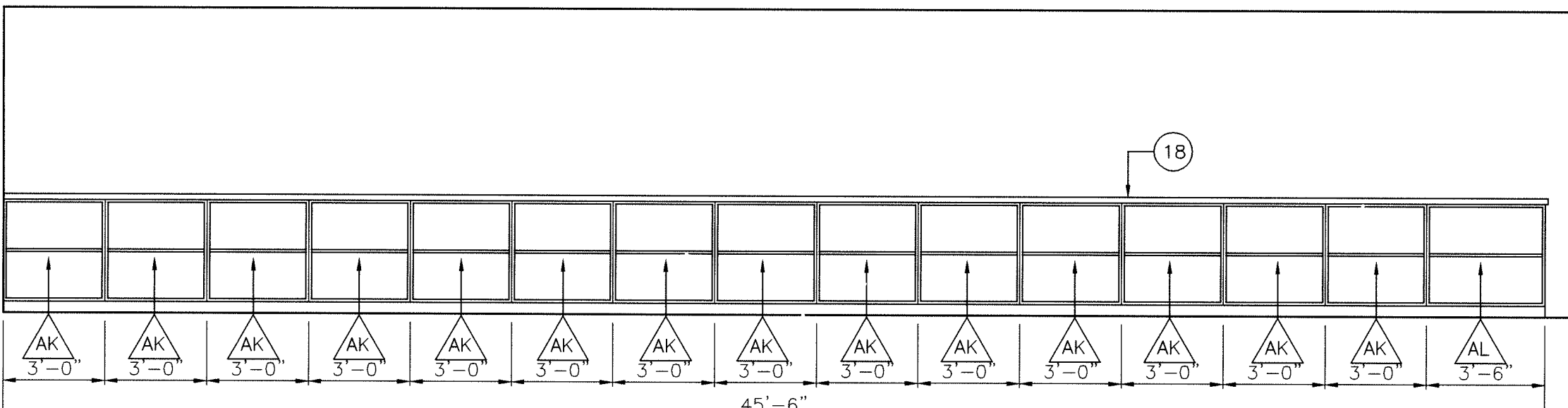
MARK	CATALOG NUMBER	WIDTH	DESCRIPTION
A	T 24 1	24"	83"H x 24"D 1 DOOR TEACHER WARDROBE CABINET RIGHT HINGED
B	T 36 2	36"	83"H x 24"D 2 DOOR TALL STORAGE CABINET
C	SPECIAL	48"	47 1/2"H x 13"D STUDENT WARDROBE UNIT
D	USB 48 24	48"	26"H x 24"D LOW SINK BASE UNIT PROVIDE WITH: ONE JUST MANUFACTURING COMPANY #95-21-33-A-GR ONE CHICAGO FAUCET #1100 HOT/COLD WATER SWING SPOUT ONE JUST MANUFACTURING #J-99 STRAINER, CRUMB CUP, & TAILPIECE ONE JUST MANUFACTURING #100 COLOR CODED INDEX HANDLES ONE JUST MANUFACTURING #JBB-5 BUBBLER
E	STB 48342	48"	36"H x 24"D 2 DOOR 2 SLIDING TRAY BASE STORAGE UNIT
F	DB 30242	30"	36"H x 24"D 2 DOOR 2 DRAWER BASE STORAGE UNIT
G	W 48 36	48"	36"H x 13"D WALL STORAGE UNIT
H	TOS 36 D	36"	83"H x 24"D 2 DOOR TALL STORAGE UNIT
I	TOS 42 D	42"	83"H x 24"D OPEN TALL STORAGE UNIT
K	DB42242	42"	36"H x 24"D 2 DOOR 2 DRAWER BASE STORAGE UNIT
L	DB 39242	39"	36"H x 24"D 2 DOOR 2 DRAWER BASE STORAGE UNIT
M	SB 36 24	36"	36"H x 24"D 2 DOOR SINK BASE STORAGE UNIT PROVIDE WITH: ONE JUST # SL-ADA-2133-A-GR3 SINK ONE CHICAGO FAUCET #1100 HOT/COLD WATER SWING SPOUT ONE JUST # J-35 STRAINER/CRUMB CUP/TAILPIECE
N	W 42 30	42"	36"H x 24"D 2 DOOR WALL STORAGE UNIT
P	SPECIAL	56"	34"H x 24"D ADA SINK BASE UNIT PROVIDE WITH: 6" FRONT PANEL AND ANGLED BACK TO CONCEAL PLUMBING, ANSI A112.19.2, AMERICAN STANDARD #6475.020 "AQUALYN COUNTERTOP LAVATORY" 20" x 17", WHITE, VITREOUS CHINA, SELF-RIMMING, LAVATORY PROVIDE WITH: CHICAGO FAUCET #1746A-E2805-5 COMBINATION SUPPLY AND POP-UP DRAIN FITTINGS WITH 1/2 GPM FLOW CONTROL VANDAL PROOF AERATOR
Q	W 12 30	12"	30"H x 12"D 1 DOOR WALL STORAGE UNIT RIGHT HINGED
R	W 42 30	42"	30"H x 12"D 2 DOOR WALL STORAGE UNIT
S	W 39 18	39"	18"H x 12"D 2 DOOR WALL STORAGE UNIT
T	W 36 18	36"	18"H x 12"D 2 DOOR WALL STORAGE UNIT
U	LDB 1624F	16"	30"H x 24"D 2 BOX DRAWER 1 FILE DRAWER BASE STORAGE UNIT
V	SPECIAL	16"	30"H x 24"D 2 FILE DRAWER BASE STORAGE UNIT
W	DB 27242	27"	36"H x 24"D 2 DOOR 2 DRAWER BASE STORAGE UNIT
X	W 2718	27"	18"H x 12"D 2 DOOR WALL STORAGE UNIT
Y	LDB 30242	30"	30"H x 24"D 2 DOOR 2 DRAWER BASE STORAGE UNIT
Z	LDB 30242	30"	30"H x 24"D 2 DOOR 2 DRAWER BASE STORAGE UNIT
AA	W 3030	30"	30"H x 12"D 2 DOOR WALL STORAGE UNIT
AB	W 3330	33"	30"H x 12"D 2 DOOR WALL STORAGE UNIT
AC	AD	42"	EXISTING STORAGE UNIT TO BE REUSED
AD	I 422	42"	83"H x 24"D 2 DOOR TALL STORAGE UNIT
AE	T 39 2	39"	83"H x 24"D 2 DOOR TALL STORAGE UNIT
AF	T 362	36"	83"H x 24"D 2 DOOR TALL STORAGE UNIT
AG	DB 42288	42"	36"H x 30"D 8 DRAWER BASE STORAGE UNIT
AH	DB 36242	36"	36"H x 24"D 2 DOOR 2 DRAWER BASE STORAGE UNIT
AJ	DB 48242	48"	36"H x 24"D 2 DOOR 2 DRAWER BASE STORAGE UNIT
AK	SPECIAL	36"	42"H x 12"D OPEN BASE STORAGE UNIT
AL	SPECIAL	42"	42"H x 12"D OPEN BASE STORAGE UNIT
AM	W 3930	39"	30"H x 12"D 2 DOOR WALL STORAGE UNIT

GENERAL NOTES

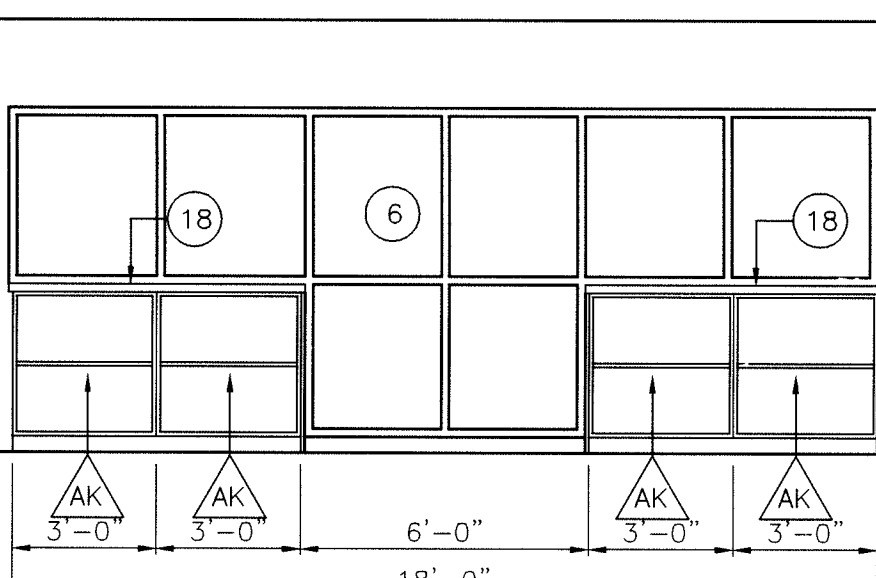
- APPLIES TO SHEET A1801 ELEVATIONS 1-17
- FOR SCHEDULING PURPOSES MODEL NUMBERS ARE TAKEN FROM HERMANN INSTITUTIONAL FURNITURE AND ARE FOR CABINET REQUIREMENTS ONLY SEE SPECIFICATIONS FOR CONSTRUCTION METHODS.
 - WHERE CASEWORK REQUIRES SHIMMING, ONLY APPROVED METAL SHIMS SHALL BE USED.
 - ALL ADJOINING CABINETS SHALL BE ALIGNED.
 - FIELD VERIFY ALL DIMENSIONS.
 - ALL DIMENSIONS SHALL BE VERIFIED WITH CABINET MANUFACTURER.
 - ALL CABINETS LOCATED IN FRONT OF A PIPE CHASE SHALL HAVE REMOVABLE BACKS.
 - REFER TO ELECTRICAL DRAWINGS AND SCHEDULES FOR DEVICE TYPES, HEIGHTS, AND LOCATIONS.
 - ALL BACK AND END SPLASHES ARE 4" HIGH UNLESS OTHERWISE NOTED.
 - ALL EXPOSED ENDS ARE TO BE FINISHED.
 - ALL FILLER PANELS, TRIM AND MOLDING PROVIDED SHALL BE CONTINUOUS AS NECESSARY TO MAKE CASEWORK CONTINUOUS TO ADJACENT WALL, PARTITION, BULKHEAD, AND/OR CEILING.
 - PROVIDE LOCKS FOR ALL CABINETS KEYS PER ROOM UNLESS OTHERWISE NOTED.
 - 4" HIGH VERTICAL GROOVE BASE AT ALL TOE SPACE AREAS AND AT EXPOSED SURFACES AND SIDES OF CABINETS ADJACENT TO TOE SPACES BY OTHERS.
 - ALL SHELVES IN ALL TYPES OF UNITS IN ROOMS SHALL BE WOOD UNLESS OTHERWISE NOTED.
 - ALL WALL AND TALL STORAGE CABINETS ARE TO HAVE SLOPED TOPS.

KEY NOTES

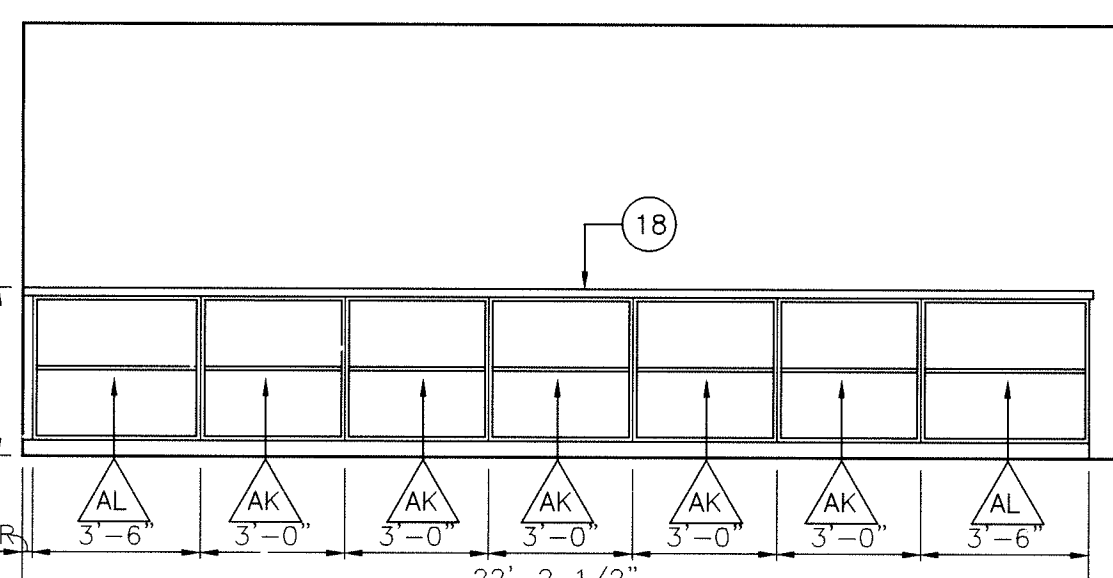
- SEE ELEVATION 1/A801 FOR TYPICAL KEYNOTES UNLESS OTHERWISE NOTED.
- LINE OF FINISHED FLOOR
 - WALL LINE
 - CEILING LINE
 - TOE SPACE
 - PROVIDE ERGO SYSTEMS INC. #LT-24-S KEYBOARD TRAY
 - WINDOW
 - KNEE SPACE
 - FILLER
 - 12"D PLASTIC LAMINATE TRANSACTION TOP
 - 25"D PLASTIC LAMINATE COUNTERTOP WITH BACK AND OR ENDSPLASH AS REQUIRED
 - 31"D PLASTIC LAMINATE COUNTERTOP WITH BACK AND OR ENDSPLASH AS REQUIRED
 - FINISHED END
 - SUPPORT LEG/BRACKET
 - PROVIDE BACK PANEL
 - PROVIDE 2" DIA. GROMMET WITH SLEEVE AND COVERPLATE
 - ELECTRICAL DEVICE BY DIVISION 16
 - EXISTING CASEWORK TO BE REUSED
 - 13"D PLASTIC LAMINATE COUNTERTOP



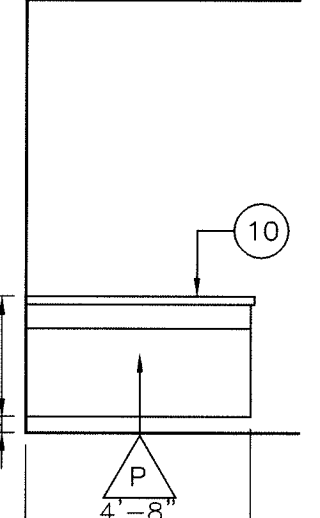
ELEVATION
SCALE: 1/4"=1'-0"
ROOM: EAT N PLAY A-115



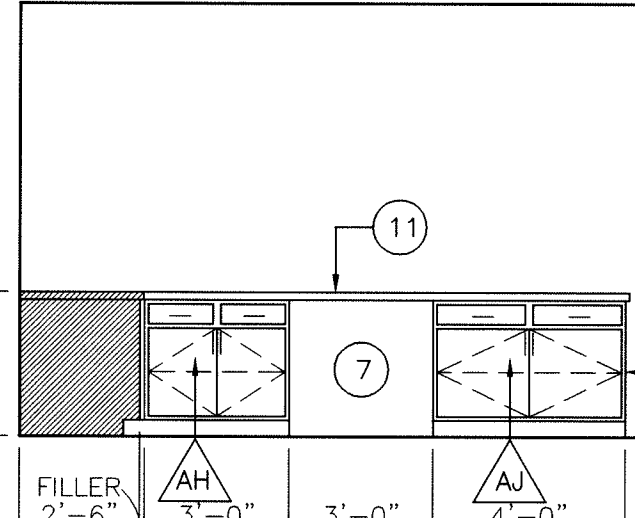
ELEVATION
SCALE: 1/4"=1'-0"
ROOM: KINDERGARTEN A-128
OPPOSITE HAND: KINDERGARTEN A-132



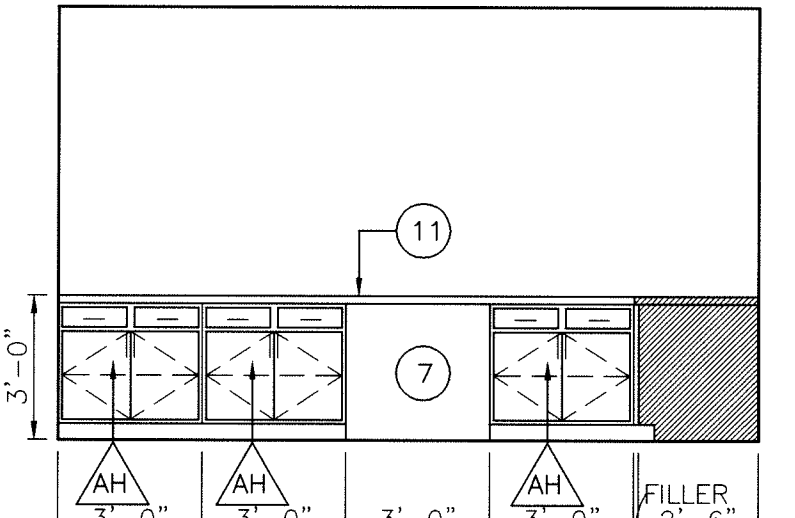
ELEVATION
SCALE: 1/4"=1'-0"
ROOM: KINDERGARTEN A-130, KINDERGARTEN A-125
OPPOSITE HAND: KINDERGARTEN A-135, KINDERGARTEN A-121



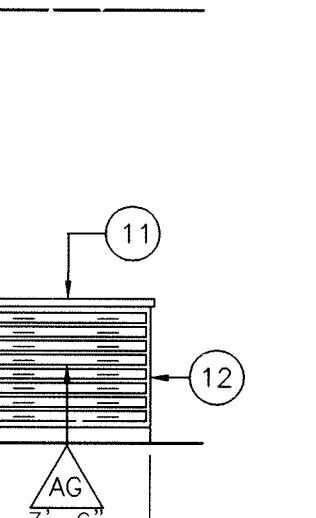
ELEVATION
SCALE: 1/4"=1'-0"
ROOM: MEN'S A-145 & WOMEN'S A-146



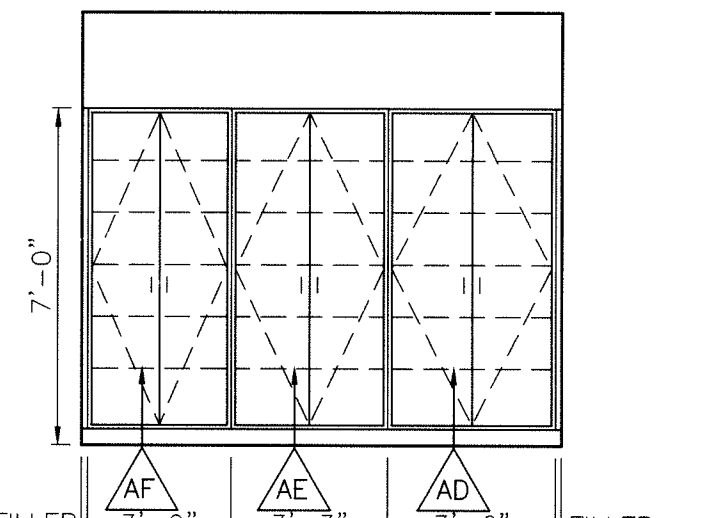
ELEVATION
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ROOM: TECHNOLOGY A-118



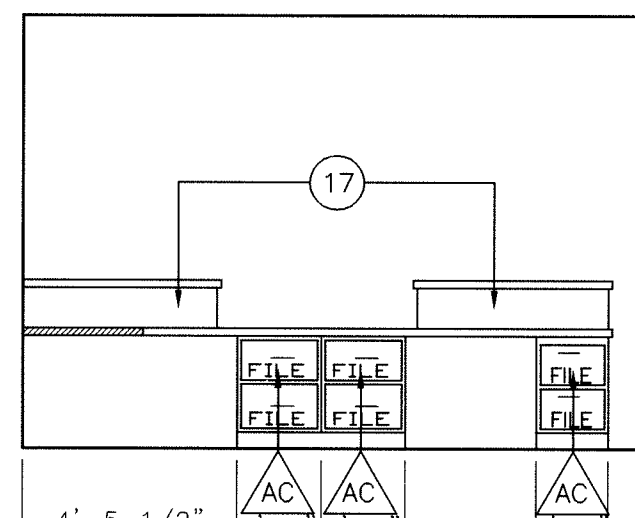
ELEVATION
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ROOM: TECHNOLOGY A-118



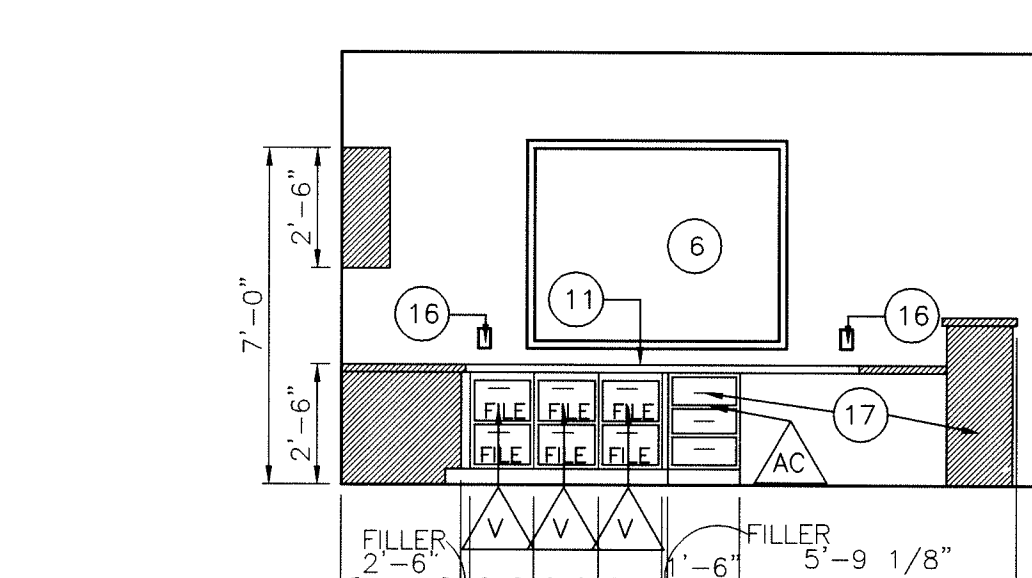
ELEVATION
SCALE: 1/4"=1'-0"
ROOM: STORAGE A-134



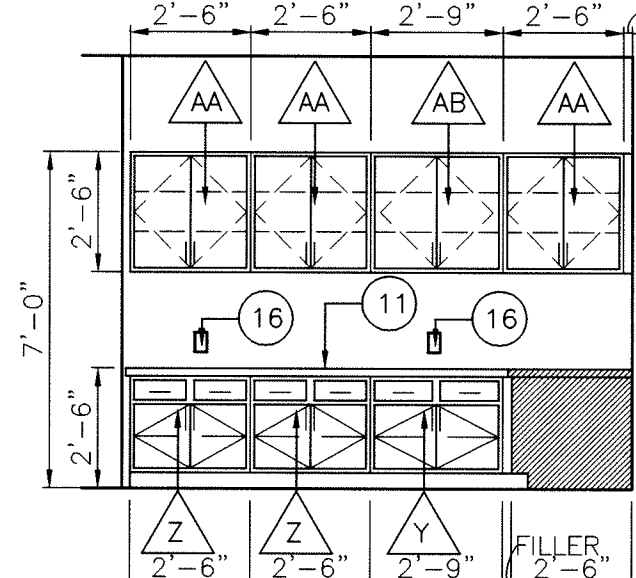
ELEVATION
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ROOM: STORAGE A-134



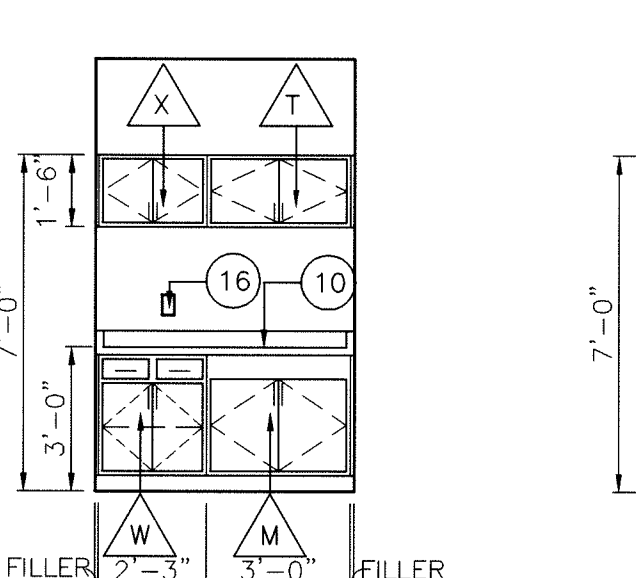
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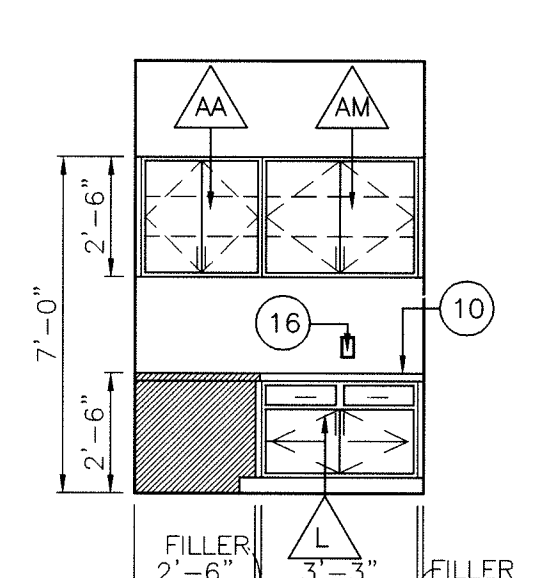
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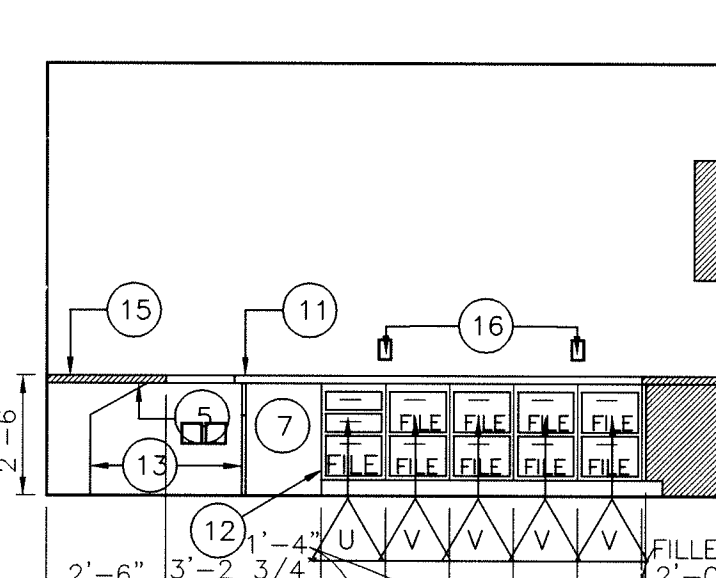
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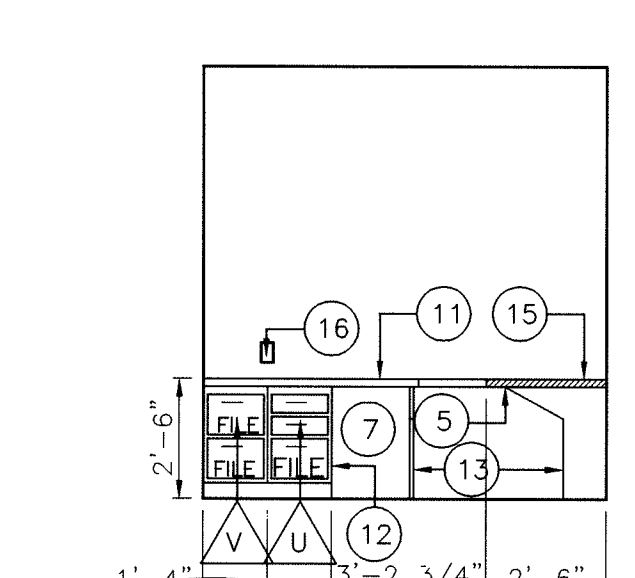
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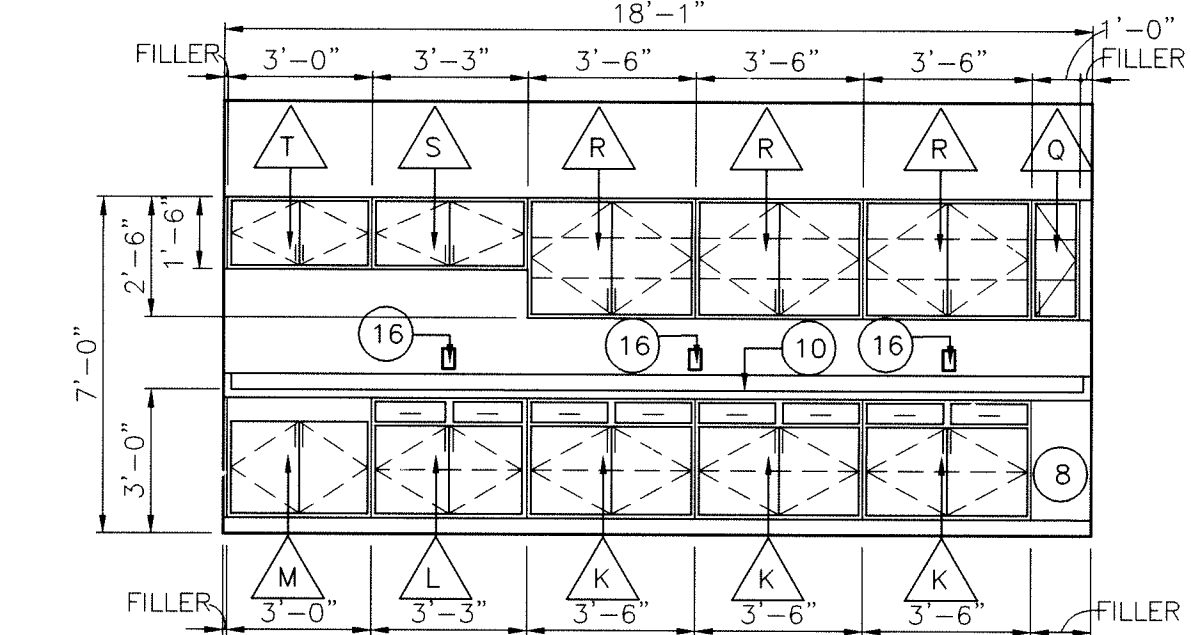
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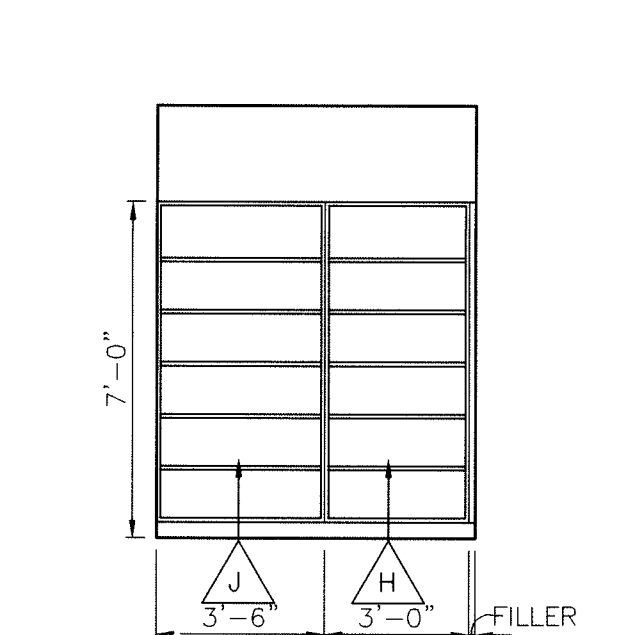
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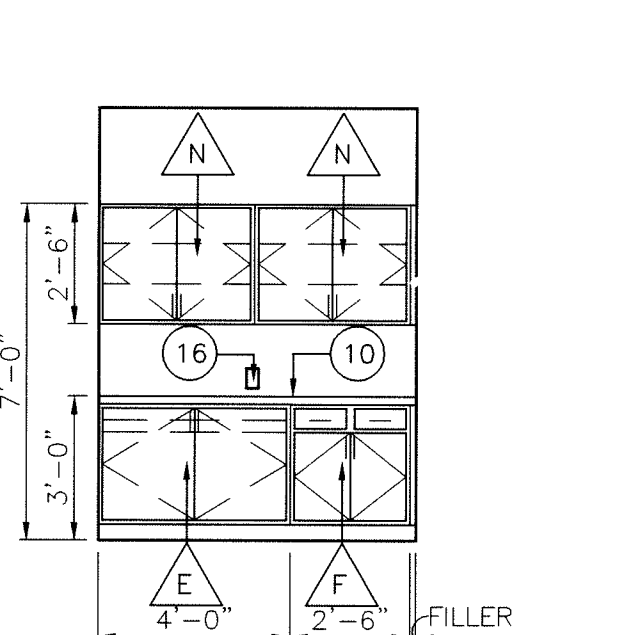
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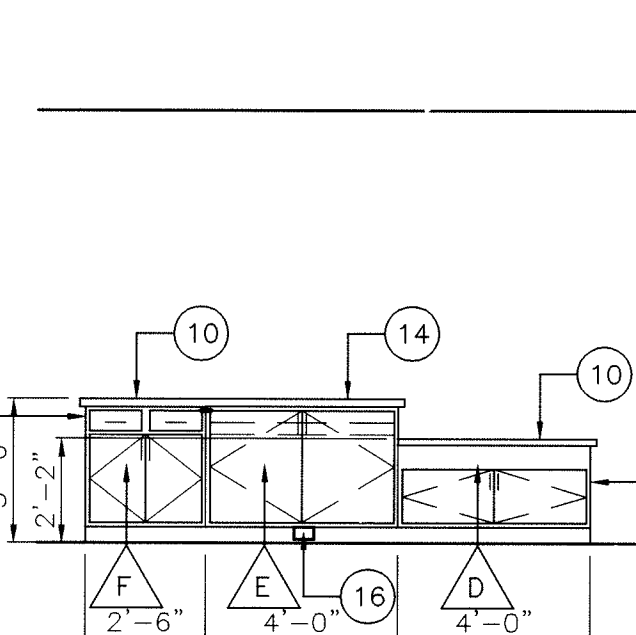
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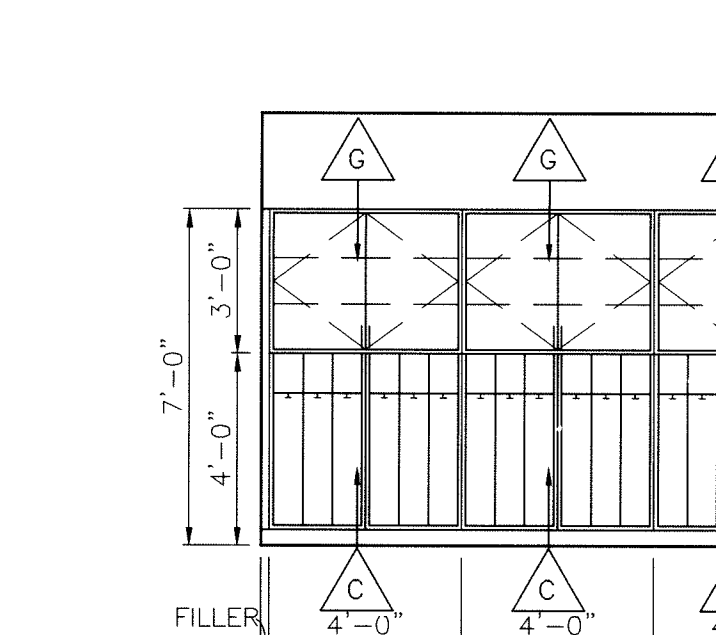
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ROOM: STORAGE A-123, STORAGE A-130, STORAGE A-137



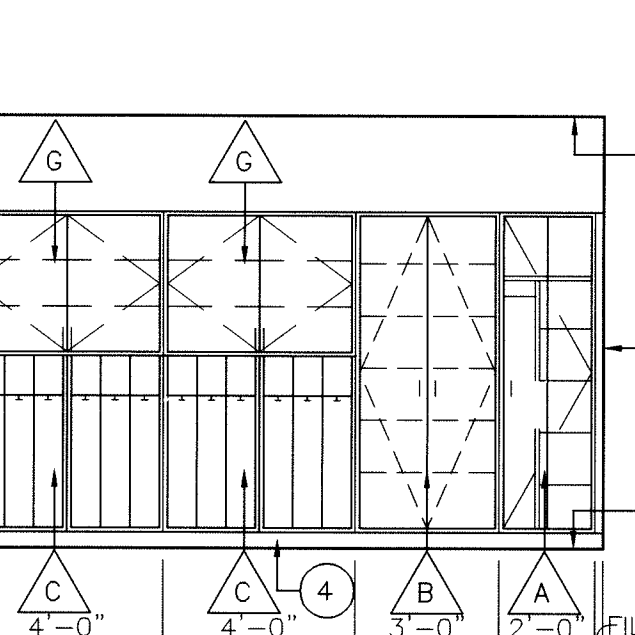
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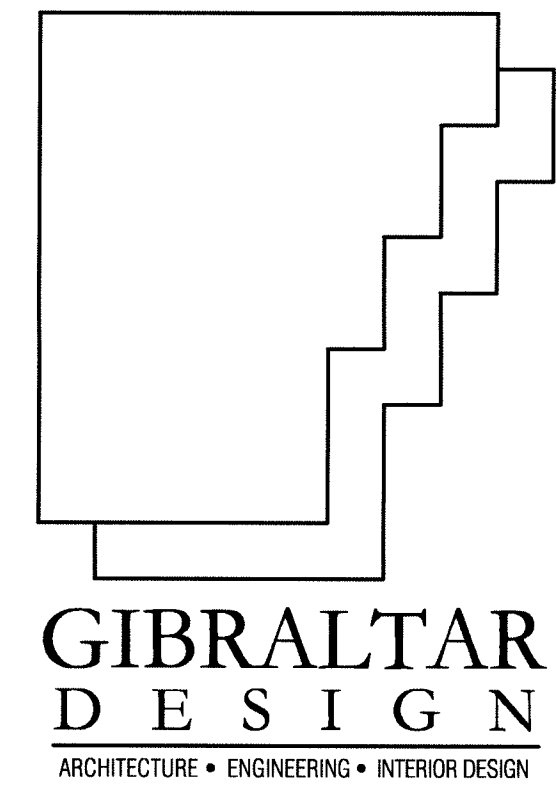
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ROOM: KINDERGARTEN A-121, KINDERGARTEN A-128, KINDERGARTEN A-135
OPPOSITE HAND: KINDERGARTEN A-125, KINDERGARTEN A-132, KINDERGARTEN A-139



ELEVATION
SCALE: 1/4"=1'-0"
ROOM: KINDERGARTEN A-125, KINDERGARTEN A-132, KINDERGARTEN A-139
OPPOSITE HAND: KINDERGARTEN A-121, KINDERGARTEN A-128, KINDERGARTEN A-135



ELEVATION
SCALE: 1/4"=1'-0"
ROOM: KINDERGARTEN A-125, KINDERGARTEN A-132, KINDERGARTEN A-139
OPPOSITE HAND: KINDERGARTEN A-121, KINDERGARTEN A-128, KINDERGARTEN A-135



PROJECT

**LAWRENCE
CENTRALIZED
KINDERGARTEN**

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

GIBRALTAR DESIGN

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Indianapolis, IN 46260
Homepage: www.gibraltar-design.com
Email: info@gibraltar-design.com
Phone: 317.580.5777 Fax: 317.580.5778

PROJECT 02-580

DATE 04/21/03

COORDINATED BY LDH

DRAWN BY LCB

CHECKED BY JPL

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	04/21/03	CD BID SET ISSUED

DRAWING
**CASEWORK ELEVATIONS
AND SCHEDULE**

PROJECT
**LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS**

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PROJECT

NORTH & SOUTH CAMPUS ADDITIONS

**METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP**

MARION COUNTY, INDIANA



6868 W. 96TH STREET
ZIONSVILLE, INDIANA 46077
(317) 873-5909
FAX: (317) 873-5909

www.foodserviceconsultinggroupinc.com



ITEM	QUAN.	DESCRIPTION
(N1)	1	HAND SINKS (BY P.C.)
(N2)	2	WALL CABINETS (BY MILLWORK)
(N3)	1	S/S COUNTER TOP WITH SINKS
(N4)	1	DISPOSER
(N5)	1	UNDERCOUNTER DISHWASHER
(N6)	1 LOT	SHELIVING
(N7)	1	REFRIGERATOR/FREEZER
(N8)	1	MOBILE COOK & HOLD OVEN
(N9)	2	MOBILE HEATED CABINETS
(N10)	1	CONNECTION MICROWAVE OVEN
(N11)	1	S/S COUNTER TOP
(N12)	1	WALL CABINET (BY MILLWORK)
(N13)	1	REFRIGERATOR
(N14)	1	CASHER'S COUNTER
(N15)	1	FLAT TOP COUNTER
(N16)	1	COLD FOOD COUNTER
(N17)	1	HOT FOOD COUNTER
(N18)	1	FLAT TOP COUNTER
(N19)	1	MOBILE MILK COOLER



ITEM	QUAN.	DESCRIPTION
(51)	2	HAND SINKS (BY P.C.)
(52)	2	WALL CABINETS (BY MILLWORK)
(53)	1	S/S COUNTER TOP WITH SINK
(54)	1	DISPOSER
(55)	1	UNDERCOUNTER DISH MACHINE
(56)	1 LOT	SHELVING
(57)	1	REFRIGERATOR/FREEZER
(58)	1	MOBILE COOK & HOLD OVEN
(59)	2	MOBILE HEATED CABINETS
(60)	1	CONVECTION MICROWAVE OVEN
(61)	1	S/S COUNTER TOP
(62)	1	WALL CABINET (BY MILLWORK)
(63)	1	REFRIGERATOR
(64)	1	CASHIER'S COUNTER
(65)	1	FLAT TOP COUNTER
(66)	1	COLD FOOD COUNTER
(67)	1	HOT FOOD COUNTER
(68)	1	FLAT TOP COUNTER
(69)	1	MOBILE MILK COOLER

GIBRALTAR DESIGN

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Indianapolis, IN 46260
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PROJECT	02-580
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DATE _____

04/21/03
COORDINATED BY

COORDINATE
ACM
DRAWN BY

DRAWN BY
DGW

CHECKED BY
ACM

ACM

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REVISIONS

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DRAWING
FOODSERVICE
EQUIPMENT
PLAN

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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SHEET

AI900

LAWRENCE
CENTRALIZED
KINDERGARTEN

MARION COUNTY, INDIANA



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[illegible]

NOTE: NOT ALL ITEM ACCESSORIES ARE CALLED OUT ON THIS SCHEDULE, REFER TO DRAWINGS AND WRITTEN SPECIFICATIONS.

[illegible]

NOTE: NOT ALL ITEM ACCESSORIES ARE CALLED OUT ON THIS SCHEDULE, REFER TO DRAWINGS AND WRITTEN SPECIFICATIONS.

F.D.	FLOOR DRAIN
F.F.D.	FUNNEL FLOOR DRAIN
F.S.	12" X 12" X 8" DEEP FLOOR SINK
F.F.E.C.	FOOD FACILITY EQUIPMENT CONTRACTOR
G.C.	GENERAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR

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ACM

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PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

SHEET

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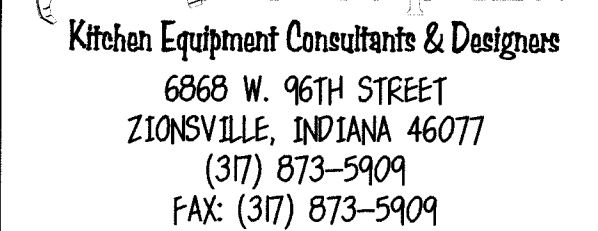
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LAWRENCE
CENTRALIZED
KINDERGARTEN

MARION COUNTY, INDIANA



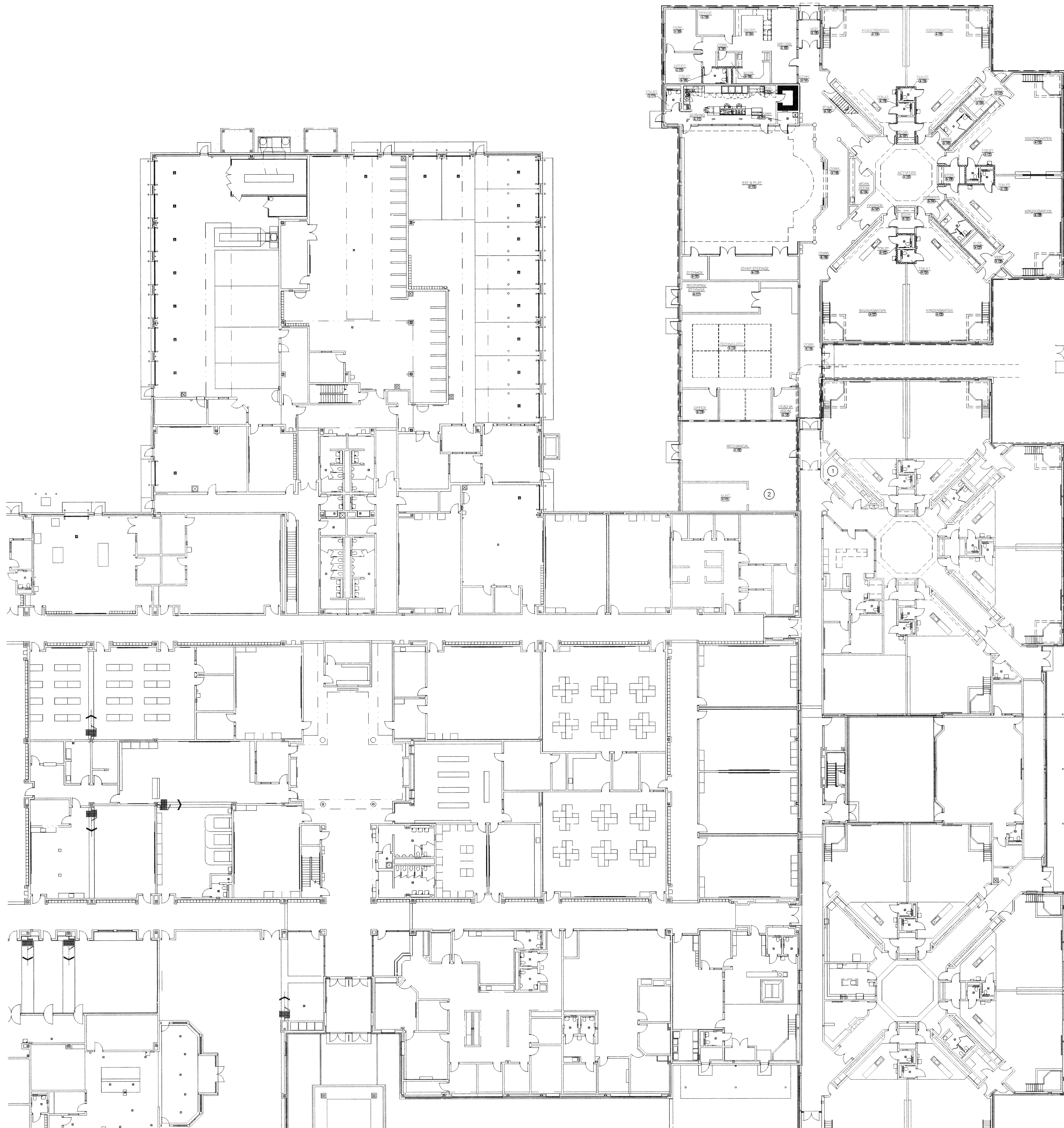
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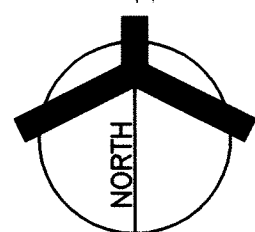
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:: 18-APR-03, 093454 / DGM

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FIRE PROTECTION FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"



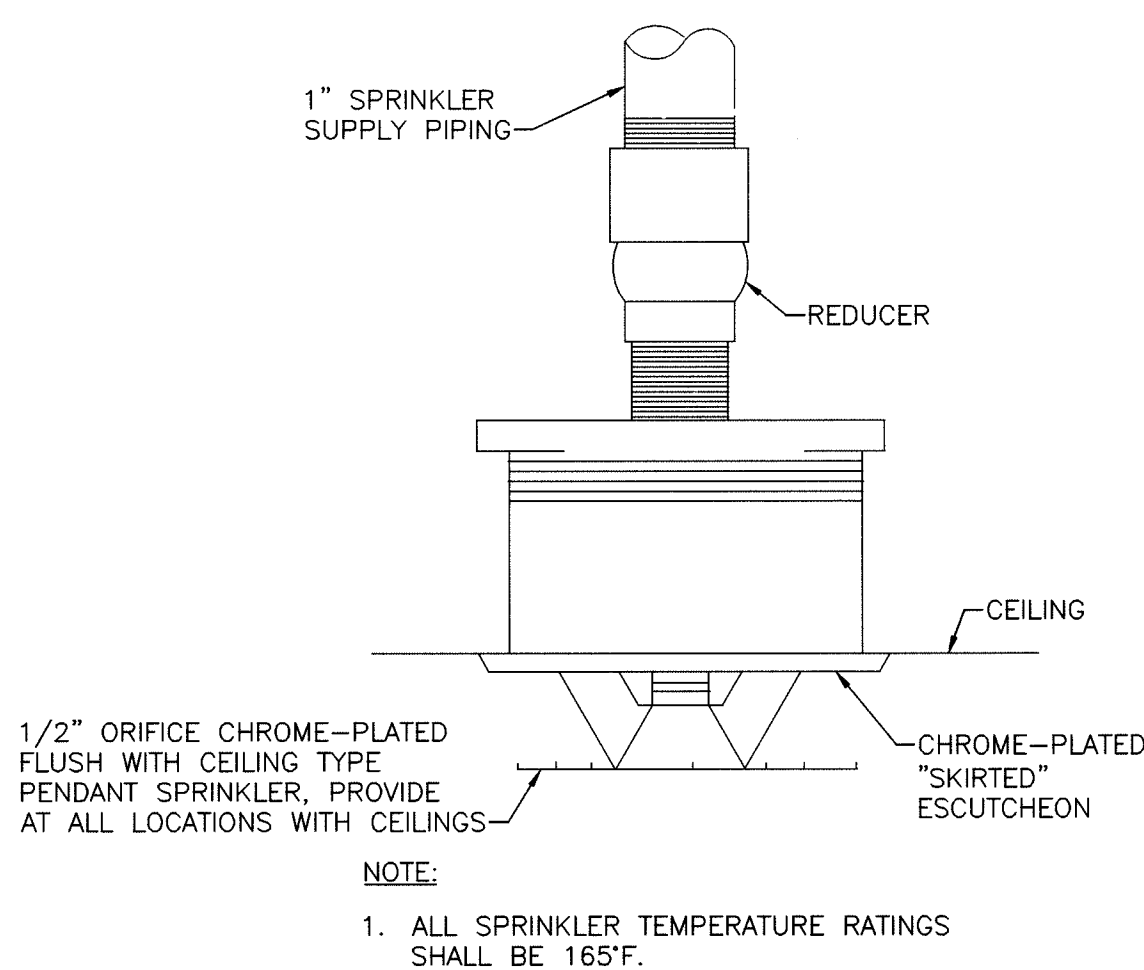
GENERAL FIRE PROTECTION NOTES

(APPLY TO ALL FIRE PROTECTION SHEETS)

1. PROVIDE AUTOMATIC WET PIPE FIRE PROTECTION SPRINKLERS FOR NEW ADDITION. BUILDING SQUARE FEET: 22,757 INCLUDING SECOND FLOOR.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND LAYOUT IN ACCORDANCE WITH NFPA, STATE, OWNER, AND AS OUTLINED ON PLANS AND IN THE SPECIFICATIONS.
3. SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED AND AS OUTLINED.
4. PROVIDE 1" TEST VALVE AT REMOTE END OF EACH ZONE. TEST PIPING SHALL BE RUN TO EXTERIOR OF BUILDING.
5. SUBMIT FINAL DESIGN AND CALCULATIONS FOR REVIEW.
6. CONTRACTOR SHALL CORE DRILL HOLES WHERE REQUIRED, IF HOLES ARE NOT THROUGH SOLID CONCRETE, PROVIDE SLEEVES, PROPERLY SEAL ALL PIPE PENETRATIONS. HOLE SIZE SHALL BE MINIMIZED TO ALLOW FOR PIPE AND SEAL AND SLEEVE WHEN REQUIRED.
7. PROVIDE FIRE STOPPING AT ALL PIPING PENETRATIONS OF SHAFTS, STAIR ENCLOSURES, FLOOR LEVELS AND FIRE WALLS.
8. PROVIDE METAL ACCESS DOORS, 12"x12", AT ALL INACCESSIBLE LOCATIONS OF DRAINS, VALVES AND OTHER SERVICE POINTS OF THE SPRINKLER SYSTEM. ACCESS DOORS FOR FIRE PROTECTION DEVICES SHALL BE OF THE SAME QUALITY AS SPECIFIED ON A ROOM BY ROOM BASIS.
9. ALL PIPING SHALL BE PROVIDED WITH APPROVED HANGERS CONFORMING TO NFPA STANDARDS.
10. PIPING SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH NFPA.
11. ALL RISERS AND PIPING SHALL BE CONCEALED BEHIND EXISTING SURFACES AND NEW ENCLOSURES AND SHALL BE RUN AS TIGHTLY AGAINST THE EXISTING STRUCTURE AS POSSIBLE TO CONSERVE BUILDING SPACE.
12. WHERE LOW POINTS IN THE SPRINKLER MAIN OCCUR TO PASS BELOW BUILDING MEMBERS, PROVIDE AUXILIARY DRAINS FOR THESE AREAS. IN EXPOSED AREAS RUN DRAIN PIPING TO NEAREST ADEQUATELY SIZED FLOOR DRAIN OR AS DIRECTED IN THE FIELD.
13. FIELD VERIFY ALL CONDITIONS AND ADJUST WORK ACCORDING TO ANY VARIATIONS OR DEVIATIONS FROM THOSE SHOWN ON THE PLANS.
14. VERIFY EXACT SIZES AND LOCATIONS OF NEW EQUIPMENT, PIPING AND DUCTWORK PRIOR TO COMMENCING WORK. CONSULT THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR NEW WORK.
15. VERIFY EXACT LOCATION AND ROUTING OF PIPING PRIOR TO FABRICATION AND INSTALLATION.
16. PREFORM ALL ABOVE CEILING WORK IN CONJUNCTION WITH OTHER TRADES. REMOVAL OF NEW CEILING TO ACCOMPLISH OTHER THAN FINISHING WORK IS UNACCEPTABLE.
17. THESE ARE PERFORMANCE DRAWINGS INTENDED TO GUIDE THE SPRINKLER SYSTEMS CONTRACTOR BY CONVEYING INFORMATION REGARDING THE CONSTRAINTS AND PARAMETERS OF THE PROJECT. THEY ARE NOT INTENDED TO RELIEVE THE SPRINKLER SYSTEMS DESIGNER IN ANY WAY OF HIS RESPONSIBILITY TO PROPERLY DESIGN AND DOCUMENT THE SPRINKLER SYSTEMS FOR THE BUILDING.
18. THE DRAWINGS ARE DIAGRAMMATIC. THEY INDICATE CERTAIN DESIGN CRITERIA AND GENERAL SCOPE OF WORK TO BE PERFORMED. WORK SHOWN ON THE DRAWINGS IS NOT PRESCRIPTIVE. BASED ON THE SCOPE SHOWN, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ITEMS FOR A COMPLETE INSTALLATION.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE FIRE HAZARD OF THIS OCCUPANCY.
20. SPRINKLER CONTRACTOR SHALL OBTAIN HIS OWN FLOW TEST TO BASE HYDRAULIC DESIGN ON.

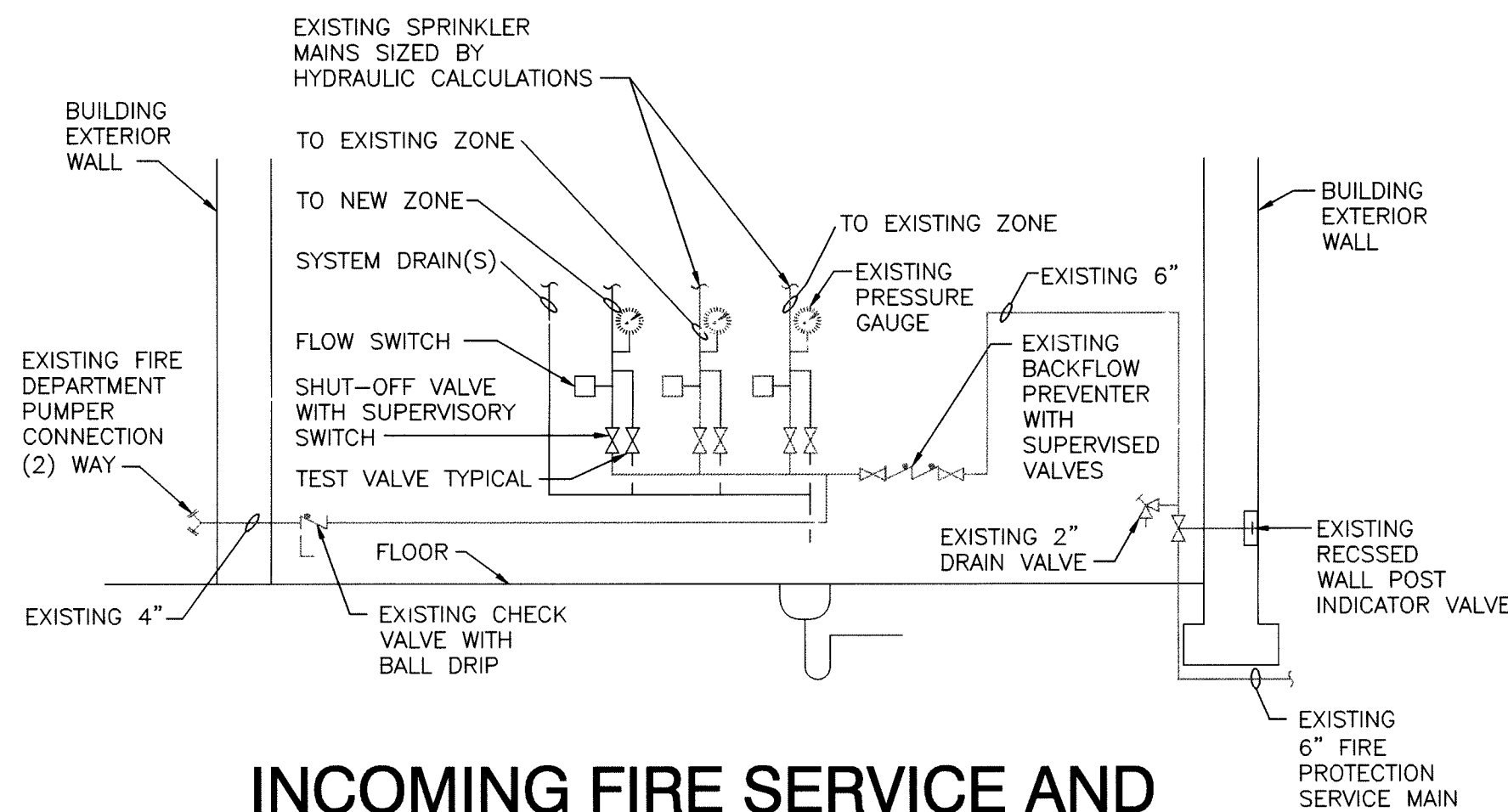
PLAN NOTES:

- 1 EXISTING FIRE SERVICE.
- 2 EXISTING FDC AND PIV IN THIS AREA TO BE RELOCATED. SEE CIVIL DRAWING.



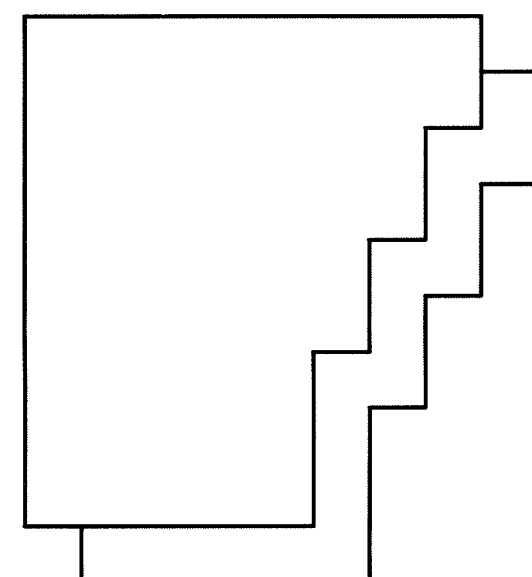
SPRINKLER HEAD DETAIL

NOT TO SCALE



INCOMING FIRE SERVICE AND SPRINKLER RISER DETAIL

NOT TO SCALE



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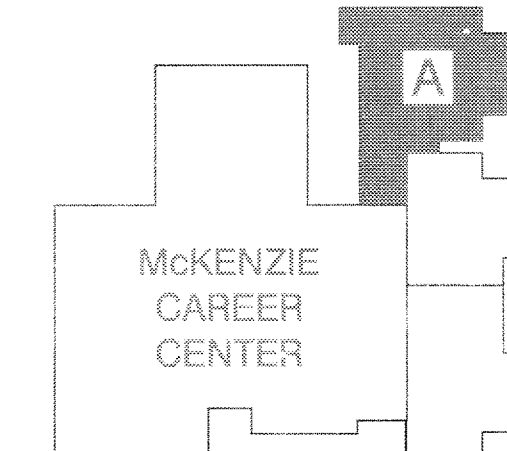
PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



KEY PLAN

GIBALTAR DESIGN

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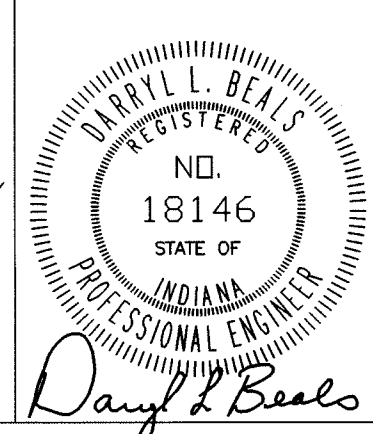
PROJECT
02-580

DATE
04/21/03

COORDINATED BY
MBW

DRAWN BY
CSZ

CHECKED BY
AGN DLB



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DRAWING FIRE PROTECTION FLOOR PLAN & DETAILS

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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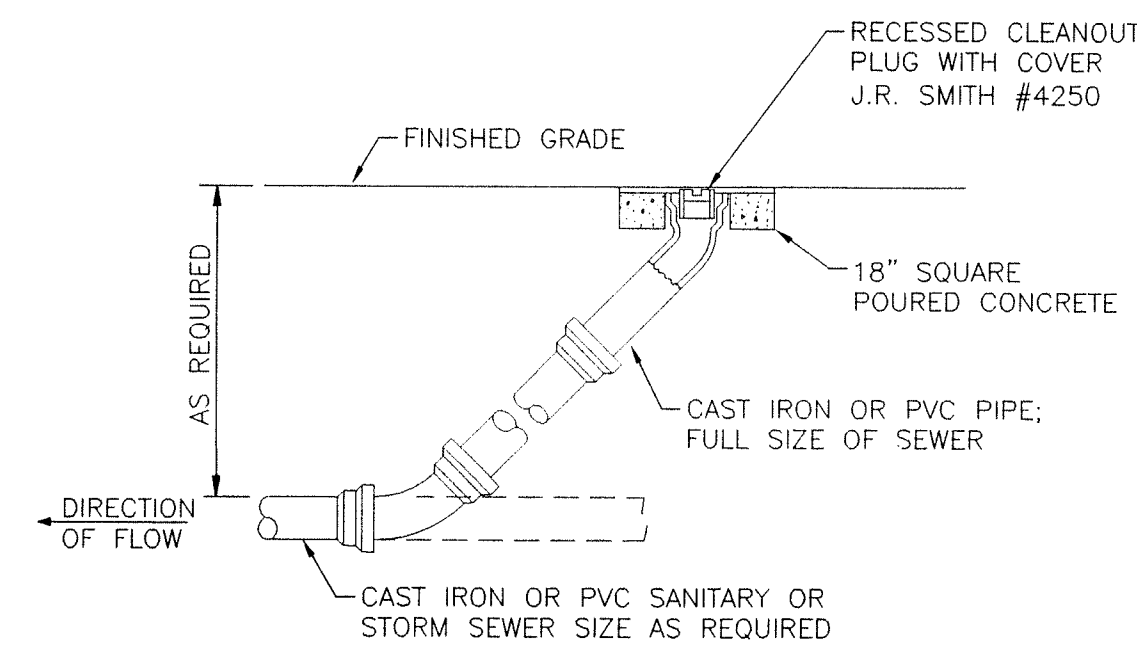
PLUMBING LEGEND		
NAME	SYMBOL	ABBREVIATION
CONDENSATE DRAIN		D
COLD WATER		CW
SOFT COLD WATER		SCW
120° HOT WATER		HW
150° HOT WATER		150°HW
TEMPERED WATER		TW
HOT WATER RETURN		HWR
GAS PIPING		G
COMPRESSED AIR		CA
VACUUM		VA
ACID RESISTANT VENT		ARV
ACID RESISTANT WASTE		ARW
FUEL OIL SUPPLY		FOS
FUEL OIL RETURN		FOR
FUEL OIL TANK VENT		FOV
FUEL OIL GAUGE		FOG
STORM DRAIN OR SEWER		S
SANITARY WASTE OR SEWER		W
PLUMBING VENTS		
FLOW IN DIRECTION OF ARROW		
PITCH DOWN IN DIRECTION OF ARROW		
SHUT-OFF VALVE		
TRIPLE DUTY VALVE		
CHECK VALVE		
TEMPERATURE REGULATING VALVE		
BALANCING VALVE		
PRESSURE RELIEF VALVE		
PRESSURE REGULATING VALVE		
UNION		
PIPE ANCHOR		
PIPE GUIDE		
PIPING DROP WITH RESPECT TO FLOW		
PIPING RISE WITH RESPECT TO FLOW		
PIPE TEE OUT OF TOP		
PIPE TEE OUT OF BOTTOM		
PRESSURE GAUGE		
THERMOMETER		
STRAINER		
AUTOMATIC AIR VENT		
SILL COCK		SC
HOSE BIBB		HB
INSIDE ROOF CONDUCTOR		RC
ROOF DRAIN		RD
OVERFLOW ROOF DRAIN		OFD
ROOF PLUMBING VENT		
FLOOR DRAIN		FD
OPEN SITE DRAIN		OSD
CLEAN OUT		CO
PLUMBING VENT THRU ROOF		VTR
SHOWER HEAD AND MIXING VALVE		
WATER CLOSET		WC
URINAL		UR
LAVATORY		LAV
SERVICE SINK		SS
MOP SINK		MS
DRINKING FOUNTAIN		DF
ELECTRIC WATER COOLER		EW
FIRE DEPARTMENT CONNECTION		FDC
AUTOMATIC SPRINKLER RISER		ASR
AUTOMATIC SPRINKLER PIPING		SP
FIRE PIPING		F
DISTILLED WATER		DW
MEDICAL COMPRESSED AIR		MA
MEDICAL VACUUM		MV
MEDICAL VACUUM PUMP EXHAUST AIR		MVE
MEDICAL AIR COMPRESSOR INTAKE AIR		MAI
WASTE ANESTHETIC GAS EVACUATION		EV
WASTE ANESTHETIC GAS EVACUATE PUMP EXHAUST AIR		EVE
LABORATORY COMPRESSED AIR		LA
LABORATORY AIR COMPRESSOR INTAKE AIR		LAI
LABORATORY VACUUM		LV
LABORATORY VACUUM PUMP EXHAUST AIR		LVE
OXYGEN		OX
NITROUS OXIDE		N ₂ O
NITROGEN		N
CARBON DIOXIDE		CO ₂
MEDICAL GAS QUICK-CONNECT RECESSED WALL OUTLET		
LABORATORY GAS BACK MOUNTED OUTLET		
WALL MOUNTED MEDICAL VACUUM SLIDE		MVS
REVERSE OSMOSIS SUPPLY		ROS
REVERSE OSMOSIS RETURN		ROR
DEIONIZED WATER SUPPLY		DIW
DEIONIZED WATER RETURN		DIWR
PROCESS COMPRESSED AIR		PA
PROCESS VACUUM		PV
PROCESS VACUUM EXHAUST		PVE
PROCESS CHILLED WATER SUPPLY		PCH
PROCESS CHILLED WATER RETURN		PCHR
NITROGEN		N
ARGON		AR
VENTILATING CONTRACTOR		VC
MECHANICAL CONTRACTOR		MC
ELECTRICAL CONTRACTOR		EC
TEMPERATURE CONTROL CONTRACTOR		TCC
INVERT		IN.
NORTH, SOUTH, EAST, WEST		N, S, E, W.
ELEVATION		EL.
POINT OF CONNECTION, NEW TO EXISTING		
WATER HAMMER ARRESTOR		WHA

(NOT ALL SYMBOLS AND ABBREVIATIONS MAY APPLY FOR THIS PROJECT)

GENERAL PLUMBING NOTES

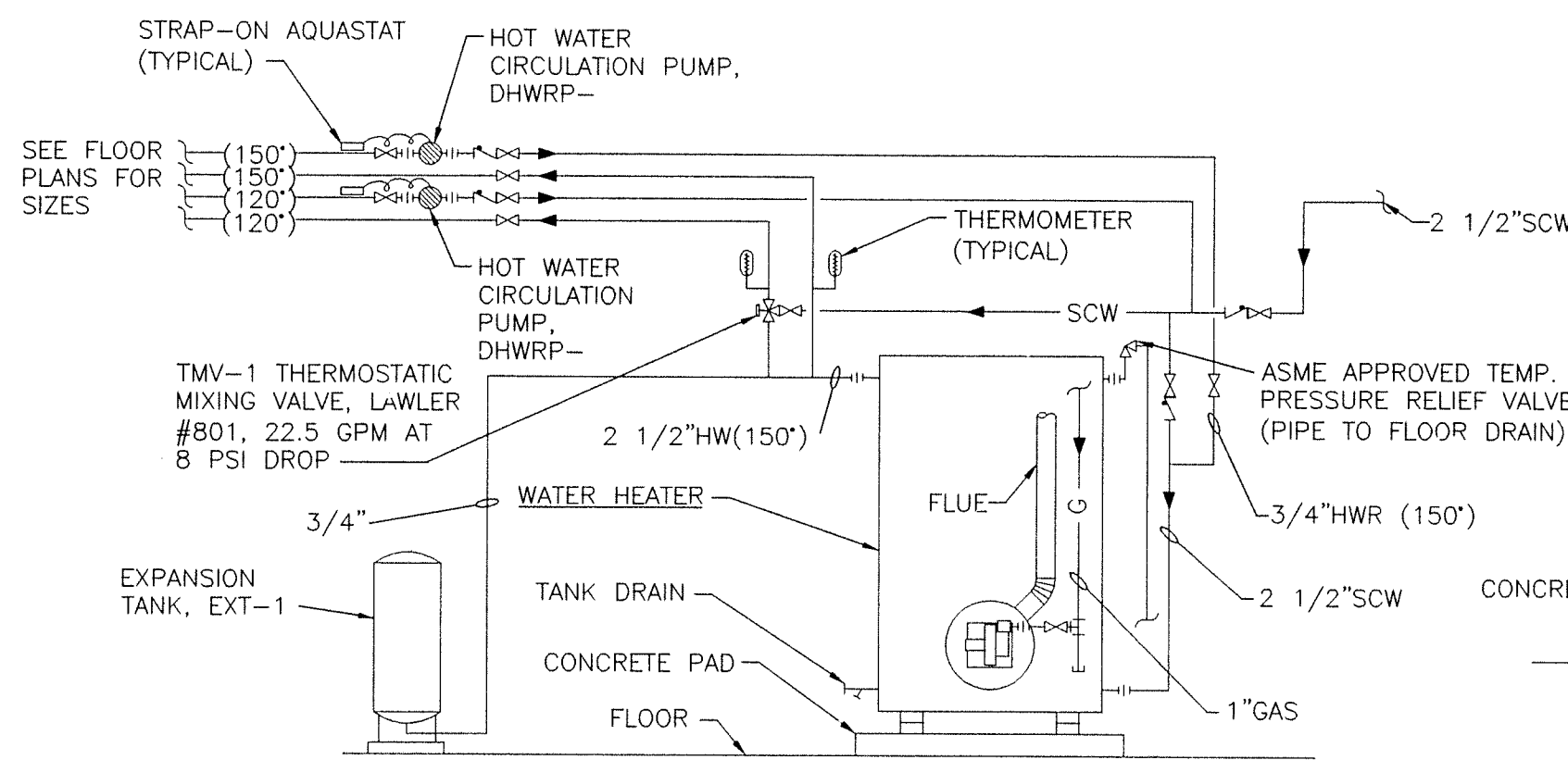
(APPLY TO ALL PLUMBING SHEETS)

- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL NEW WORK SHOWN ON THESE SHEETS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID AND MODIFY WORK AS REQUIRED FOR ANY VARIATIONS OR DEVIATIONS FROM THOSE SHOWN ON THESE SHEETS.
- ALL WALLS, LIGHTS, EQUIPMENT, DUCTWORK, PIPING, ETC. SHOWN WITH THIN DOTTED LINES IS EXISTING TO REMAIN CONDITIONS AND SHOULD BE USED FOR REFERENCE ONLY, AND MAY INDICATE NONEXISTENT OR INACCURATE CONDITIONS.
- ALL EQUIPMENT, DUCTWORK AND PIPING SHOWN WITH THICK DASHED LINES IS EXISTING TO BE REMOVED OR RELOCATED.
- ALL EQUIPMENT, DUCTWORK AND PIPING SHOWN WITH THIN SOLID LINES IS NEW WORK.
- ALL BULKHEADS, CANOPIES AND ROOF OVERHANGS SHOWN WITH THIN DOTTED/DASHED LINES AND IS NOT OTHERWISE NOTED, INDICATE LOCATION PROVIDED BY OTHER CONTRACTORS.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL SHEETS AND COORDINATE ALL WORK.
- ALL PIPING IN PIPE SPACES AND TUNNELS SHALL BE PLACED AS CLOSE TO WALLS AS POSSIBLE TO ALLOW MAXIMUM ACCESS.
- ALL DUCTWORK AND PIPING ABOVE CEILING SHALL BE PLACED TO AVOID LIGHTING FIXTURES, JOISTS, BEAMS, ETC.
- PROVIDE CEILING ACCESS PANELS FOR ACCESS TO VOLUME DAMPERS, FIRE AND SMOKE DAMPERS, SHUT-OFF VALVES, CONTROL VALVES, DRAIN VALVES, EQUIPMENT, ETC. LOCATED ABOVE NON-ACCESSIBLE CEILINGS (INCLUDES ALL EXISTING ITEMS REQUIRING ACCESS WHERE NEW NON-ACCESSIBLE CEILINGS OCCUR). COORDINATE ALL ACCESS PANELS WITH THE ARCHITECT.
- CONTRACTOR SHALL CORE DRILL HOLES THROUGH FLOORS, WALLS, DECKS, ETC. WHERE PASSAGE IS NOT AVAILABLE TO INSTALL NEW PIPING. PROVIDE PIPE SLEEVES AND PROPERLY SEAL ALL PIPE PENETRATIONS AS REQUIRED. REFER TO SPECIFICATIONS.
- ALL DOMESTIC WATER PIPING HEADERS LOCATED IN PIPE CHASE SHALL BE SAME SIZE AS PIPING MAIN DROPS INDICATED ON THESE SHEETS.
- ALL DOMESTIC, HEATING AND CHILLED WATER, GAS, COMPRESSED AIR, ETC. BRANCH PIPING SHOWN WITHOUT SIZE INDICATED, SHALL BE A MINIMUM OF 3/4".
- ALL HORIZONTAL SANITARY AND STORM PIPING INSIDE OF BUILDING SHALL SLOPE A MINIMUM OF 1/4" PER 1'-0" UNLESS OTHERWISE NOTED.
- EXACT LOCATION OF ALL FLOOR DRAINS IN BOILER AND MECHANICAL ROOMS SHALL BE VERIFIED BY ARCHITECT. IN GENERAL, FLOOR DRAINS SHALL BE LOCATED WITHIN 6" OF CONCRETE PADS SUPPORTING EQUIPMENT AND SHALL BE CENTERED WHERE DRAINING IS REQUIRED. ADDITIONALLY FLOOR DRAIN STRAINERS SHALL BE DERESSED APPROXIMATELY 1" BELOW BOILER AND MECHANICAL ROOMS, ETC. FLOOR ELEVATION.
- ALL WATER AND WASTE PIPING UNDER FLOOR SLAB SHALL CONTINUE FULL SIZE OF HORIZONTAL BRANCH. VERTICAL SUPPLY RISER TO FIXTURES SHALL BE REDUCED TO SIZE REQUIRED BY THE FIXTURE, FLUSH AT FLOOR OR WALL SURFACE.
- WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 20) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE HOT AND COLD WATER PIPING AND WHERE FLUSH VALVES AND ANY OTHER QUICK CLOSING VALVES ARE USED.
- CONTRACTOR SHALL ALSO PROVIDE AND INSTALL VALVES IN ALL PIPING AS REQUIRED TO FACILITATE OPERATION OF VARIOUS SYSTEMS DURING CONSTRUCTION.



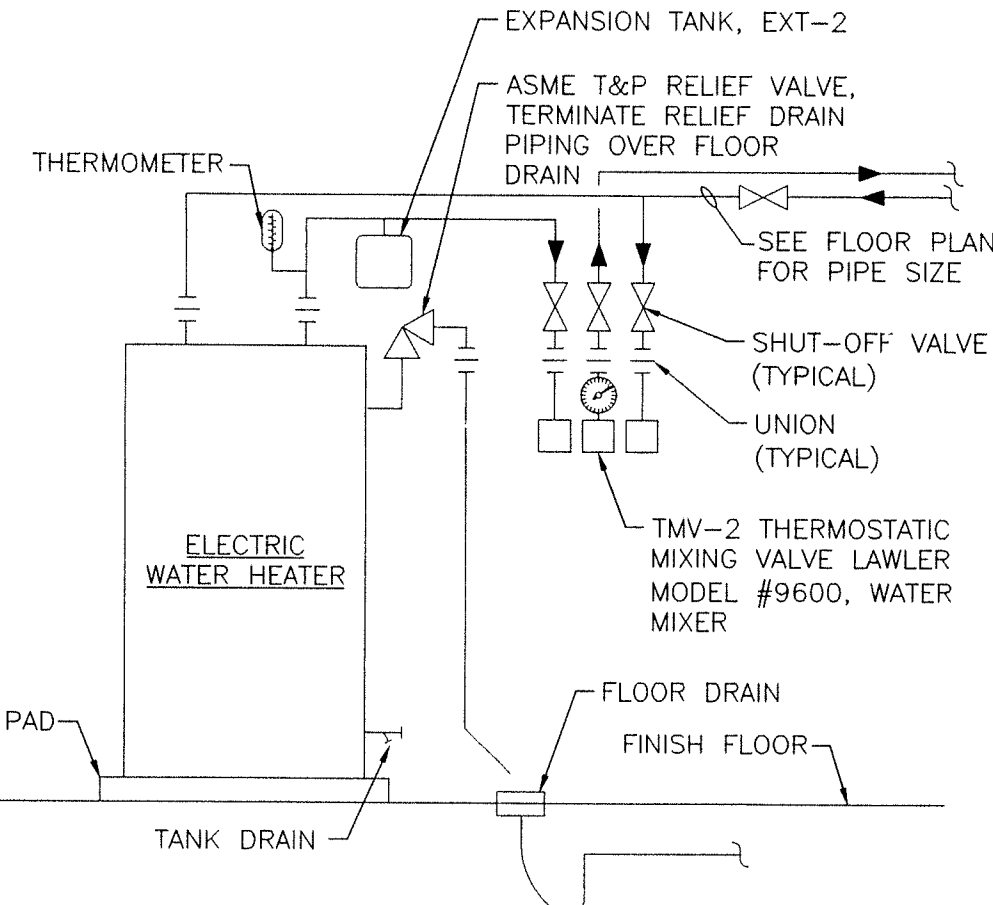
TYPICAL EXTERIOR CLEANOUT DETAIL

NOT TO SCALE



DOMESTIC WATER HEATER PIPING DETAIL

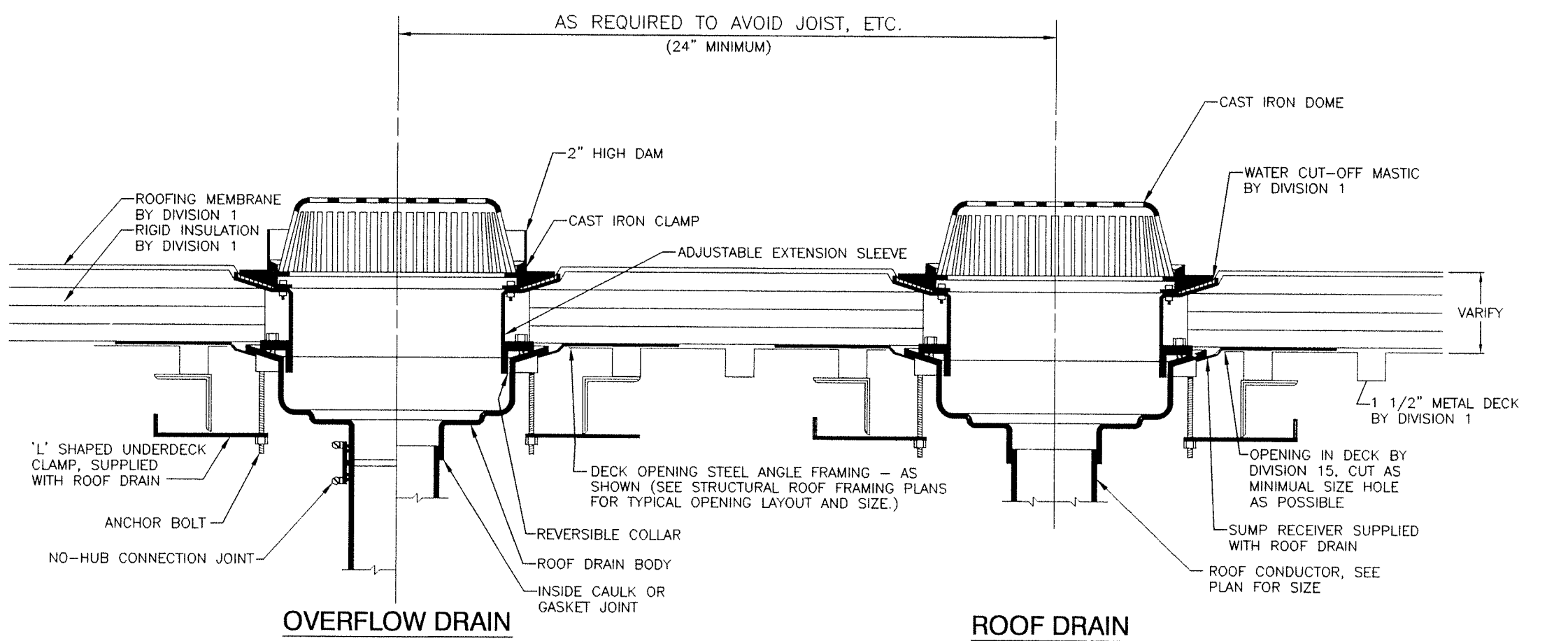
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ELECTRIC WATER HEATER PIPING DETAIL

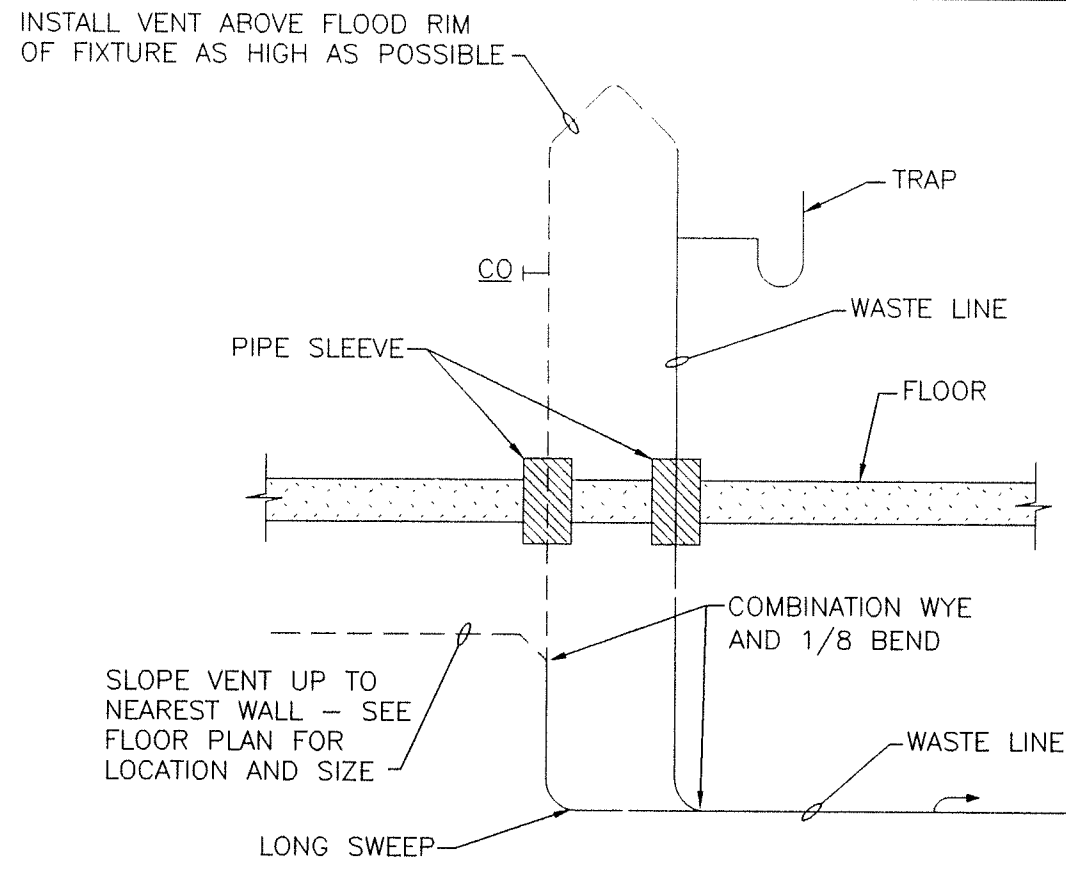
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(SOUTH)



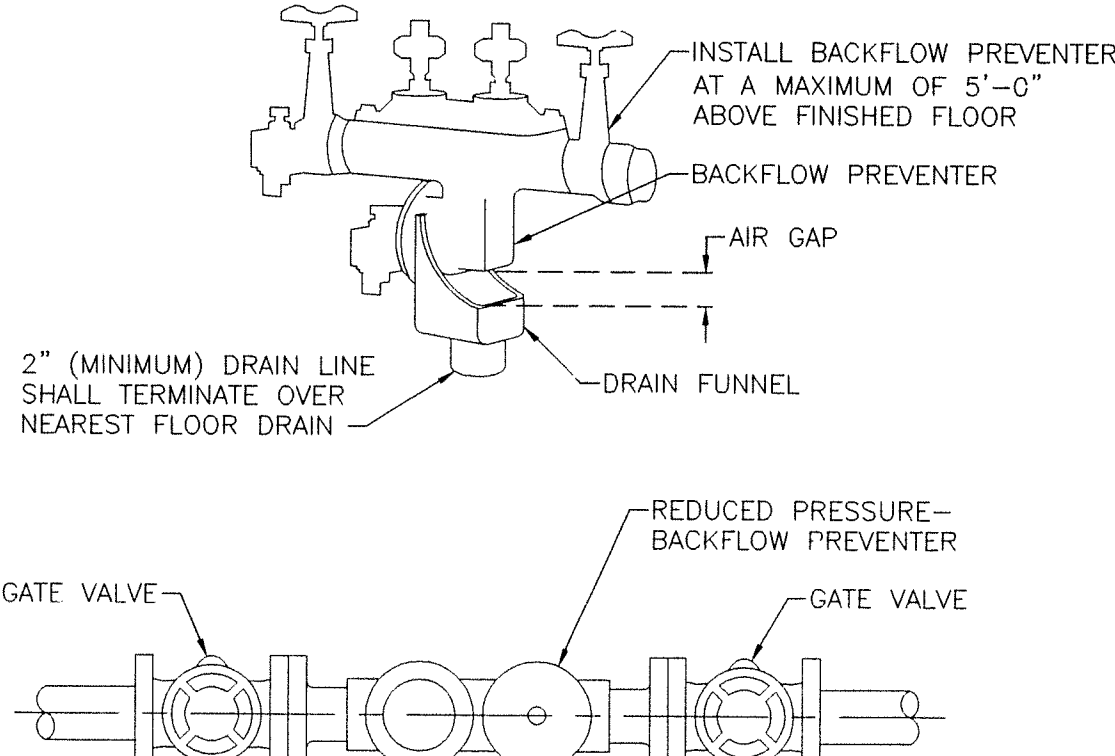
ROOF & OVERFLOW DRAIN DETAIL

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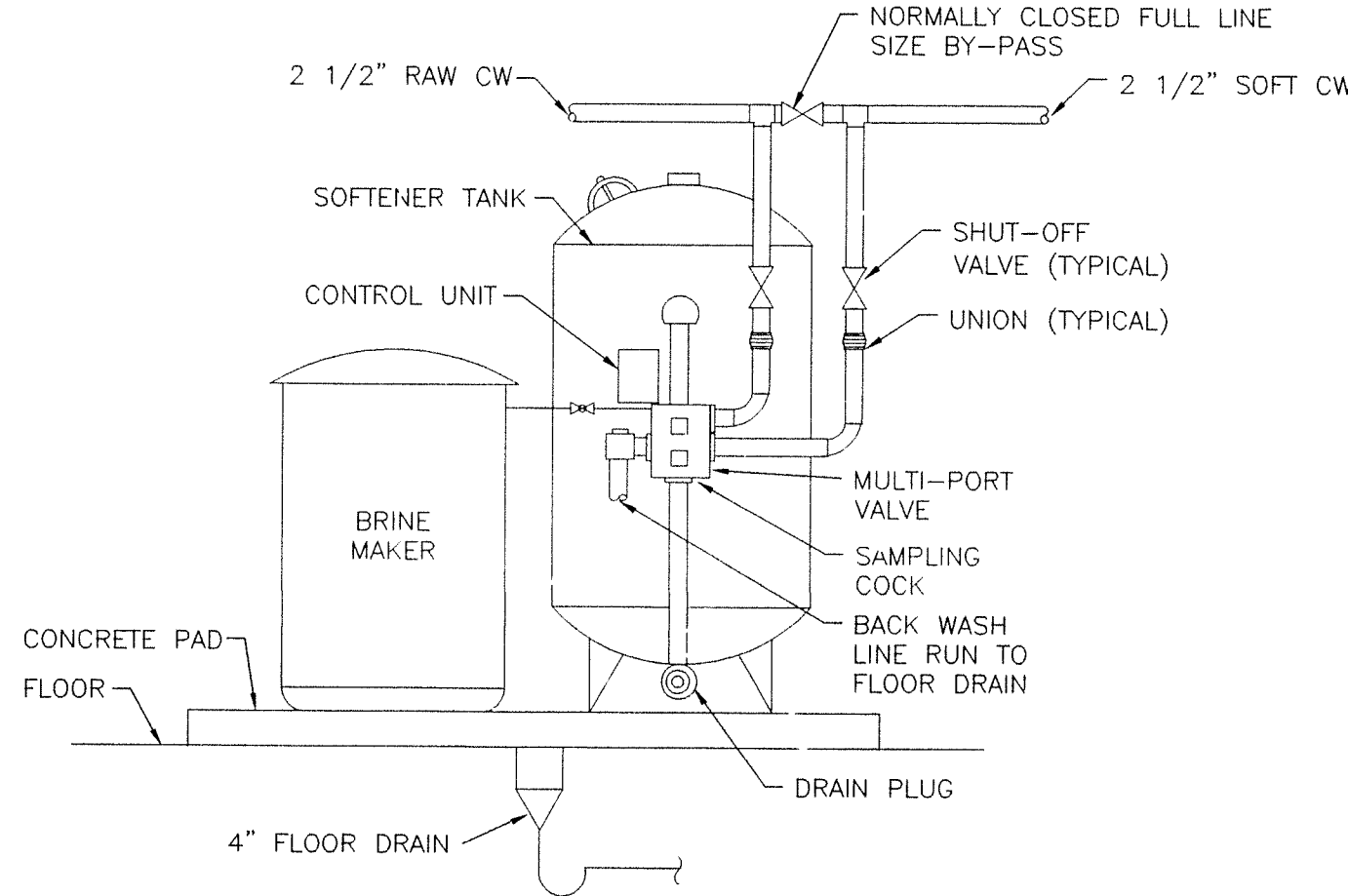
ISLAND SINK WASTE AND VENT PIPING DETAIL

NOT TO SCALE



BACKFLOW PREVENTER DETAIL

NOT TO SCALE



DOMESTIC WATER SOFTENER PIPING DETAIL

NOT TO SCALE

WATER HEATER SCHEDULE (DHW)

NO.	MANUFACTURER AND MODEL	NOMINAL STORAGE CAPACITY (GAL.)	INPUT RATING MBH NATURAL GAS	RECOVERY GPH AT 100 °F RISE	ELECTRICAL DATA				SEE NOTE
					AMPS	KW	VOLTS	PHASE	
DHW-1	A. O. SMITH BTH-150	100	135	134	---	---	120	1	1
DHW-2	A. O. SMITH PEC-66	66	---	16.45	18.8	4.5	240	1	---

NOTES:

- TWO (2) WATER HEATERS REQUIRED PIPED PARALLEL, PROVIDE A. O. SMITH MANIFOLD KIT #78692.

RECIRCULATING PUMP SCHEDULE (DHWRP)

OP NO.	SYSTEM SERVED	BELL AND GOSSETT MODEL NUMBER		GPM	FEET HEAD	HP	SEE NOTE
		SERIES	SIZE				
DHWRP-1	120° NEW	PL-36B	3/4"	22	20	1/6	1.2
DHWRP-2	140°	PL-36B	3/4"	22	20	1/6	1.2
DHWRP-3	120° EXISTING	PL-36B	3/4"	22	20	1/6	1.2

NOTES:

- PUMP MOTOR: 120 VOLTS, 1 PHASE, 60 HERTZ, 1750 RPM.
- PUMP SHALL START AND STOP ON 10° TEMPERATURE IN RETURN MAINS.

WATER SOFTENER SCHEDULE

NO.	MANUFACTURER AND MODEL	CAPACITY PER SOFTENER TANK						BRINE MAKER SALT CAPACITY (LB.)	ELECTRICAL DATA			SEE NOTE
		RESIN CU. FT.	BACKWASH FLOW GPM	GRAINS EXCHANGE		LBS. SALT/REGEN			WATTS	VOLTS	PHASE	
				MAX.	MIN.	MAX.	MIN.					
WS-1	AQUA SYSTEMS #700	7.00	10	266,000	147,000	---	---	1500	---	120	1	1.2

NOTES:

- FULLY AUTOMATIC OPERATION.
- 30"X48" BRINE TANK.

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	WASTE	VENT	CW	HW	FIXTURE MOUNTING HEIGHT	SEE NOTE
P-1	WATER CLOSET	4"	2"	1"	---	15" RIM AFF	---
P-2	WATER CLOSET-ADA	4"	2"	1"	---	18" TOP OF SEAT AFF	---
P-3	URINAL	2"	1 1/2"	3/4"	---	24" LIP AFF	---
P-4	LAVATORY-ADA	1 1/2"	1 1/2"	1/2"	1/2"	27" RIM AFF	---
P-5	LAVATORY W/STOPPER-ADA	1 1/2"	1 1/2"	1/2"	1/2"	34" RIM AFF	---
P-6	CABINET SINK	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER TOP MOUNTED	6
P-7	WATER COOLER-ADA	1 1/2"	1 1/2"	1/2"	---	SEE NOTE #5	5
P-8	MOP SINK	3"	1 1/2"	3/4"	3/4"	FLOOR MOUNTED	---
P-9	SERVICE SINK	3"	1 1/2"	3/4"	3/4"	TRAP STANDARD	---
P-10	CABINET LAVATORY-ADA	1 1/2"	1 1/2"	1/2"	1/2"	COUNTER TOP MOUNTED	6
P-11	WATER CLOSET-KINDERGARTEN	4"	2"	1"	---	10" RIM AFF	---

NOTES:

- MECHANICAL CONTRACTOR SHALL CONSULT WITH THE ARCHITECT BEFORE ROUGHING-IN ANY WATER CLOSETS.
- ALL SIZES SHOWN ARE INDIVIDUAL BRANCH SIZES TO FLUSH VALVES, FAUCETS, BUBBLERS, ETC.
- ALL WATER CLOSETS AND URINALS SHALL BE FLUSH VALVE OPERATED.
- ALL FIXTURES, INCLUDING DRINKING FOUNTAINS AND WATER COOLERS, SHALL BE CHROME-PLATED, KEY OPERATED AND VALVE EXPOSED AT THE FIXTURE.
- MOUNT ONE EWC AT 36" AFF TO BUBBLER FOR ADA AND MOUNT ONE AT 26" AFF TO BUBBLER.
- CABINET SINKS WILL BE FURNISHED COMPLETE WITH TRIM UNDER A DIFFERENT CONTRACT AND TURNED OVER TO THE MECHANICAL CONTRACTOR AT THE JOB SITE. THE MECHANICAL CONTRACTOR SHALL SET SINK PROVIDE ALL LABOR AND MATERIAL TO ROUGH-IN AND HOOKUP COMPLETE.

FLOOR DRAIN SCHEDULE

TYPE	JAY R. SMITH		GENERAL LOCATION	SEE NOTE
	FLOOR DRAIN	TRAP		
A	MODEL 2041-A	INTEGRAL	FINISHED AREA FLOOR ON GRADE	2
B	MODEL 2632-AB	4595 WITH 4429 CO	MECHANICAL EQUIPMENT ROOM	4
C	MODEL 2220	4595 WITH 4429 CO	BOILER ROOM, MECHANICAL ROOM, ETC.	3
D	MODEL 2010-AB	7222 WITH BRONZE PLUG	MECHANICAL EQUIPMENT ROOMS NOT ON GRADE	3
E	MODEL 3150-12	1595 WITH 4021-T CO	KITCHEN AREA ONLY	5

NOTES:

- ALL FLOOR AND SHOWER DRAINS SHALL BE FULL SIZE OF THE CONNECTION WASTE LINE SHOWN ON THE DRAWINGS. UNLESS OTHERWISE NOTED.
- ALL FLOOR DRAINS SHALL HAVE NICKEL BRONZE RIMS AND STRAINERS. THE STRAINERS SHALL HAVE A 5" MINIMUM DIAMETER OR TWICE THAT OF THE CONNECTING WASTE LINE, UNLESS OTHERWISE NOTED.
- FLOOR DRAIN SHALL HAVE A SHALLOW PERFORATED SEDIMENT BUCKET AND POLISHED BRONZE STRAINER.
- PROVIDE 3/4 GRATE.
- FLOOR DRAIN SHALL HAVE NICKEL BRONZE RIM AND 1/2 GRATE.

EXPANSION TANK SCHEDULE (EXT)

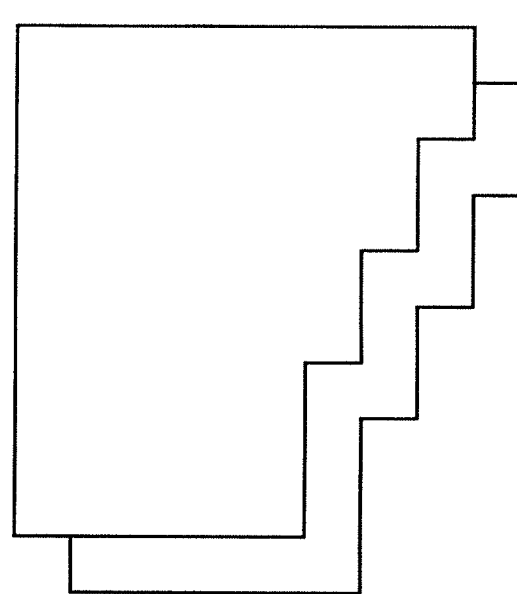
NO.	SYSTEM SERVED	AMTROL MODEL NO.	VOLUME		PRE-CHARGE PRESSURE PSI
			TANK	ACCEPTANCE	
EXT-1	DOMESTIC HW (NORTH)	ST-20V-C	7.6	.32	40
EXT-2	DOMESTIC HW (SOUTH)	ST-5-C	2.1	.43	40

WATER HAMMER ARRESTOR SCHEDULE

TYPE	I.P.S.	FIXTURE UNIT RATING	J.R.SMITH NO.	SEE NOTE
A	3/4"	1-11	5005	1
B	1"	12-32	5010	1
C	1"	33-60	5020	1
D	1"	61-113	5030	1
E	1"	114-154	5040	1
F	1"	155-330	5050	1

NOTES:

- WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING AND WHERE FLUSH VALVES AND ANY OTHER QUICK CLOSING VALVES ARE USED.



**GIBRALTAR
DESIGN**
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

**LAWRENCE
CENTRALIZED
KINDERGARTEN**

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

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PROJECT

02-580

DATE

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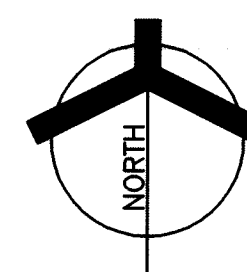
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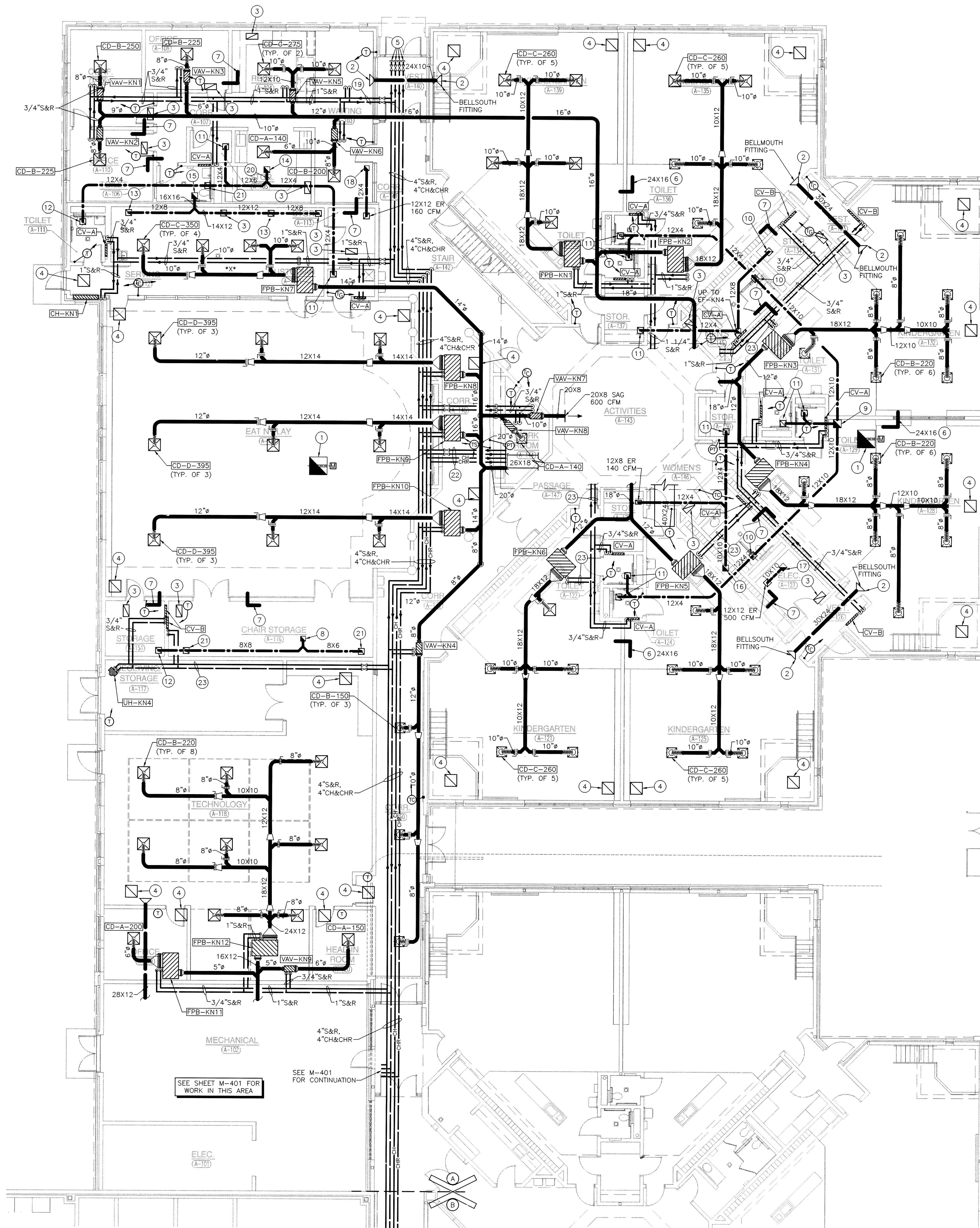
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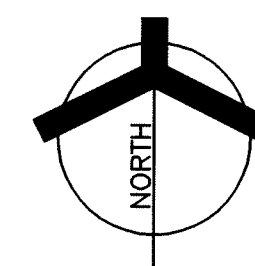
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P-101



UNIT "A" MECHANICAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

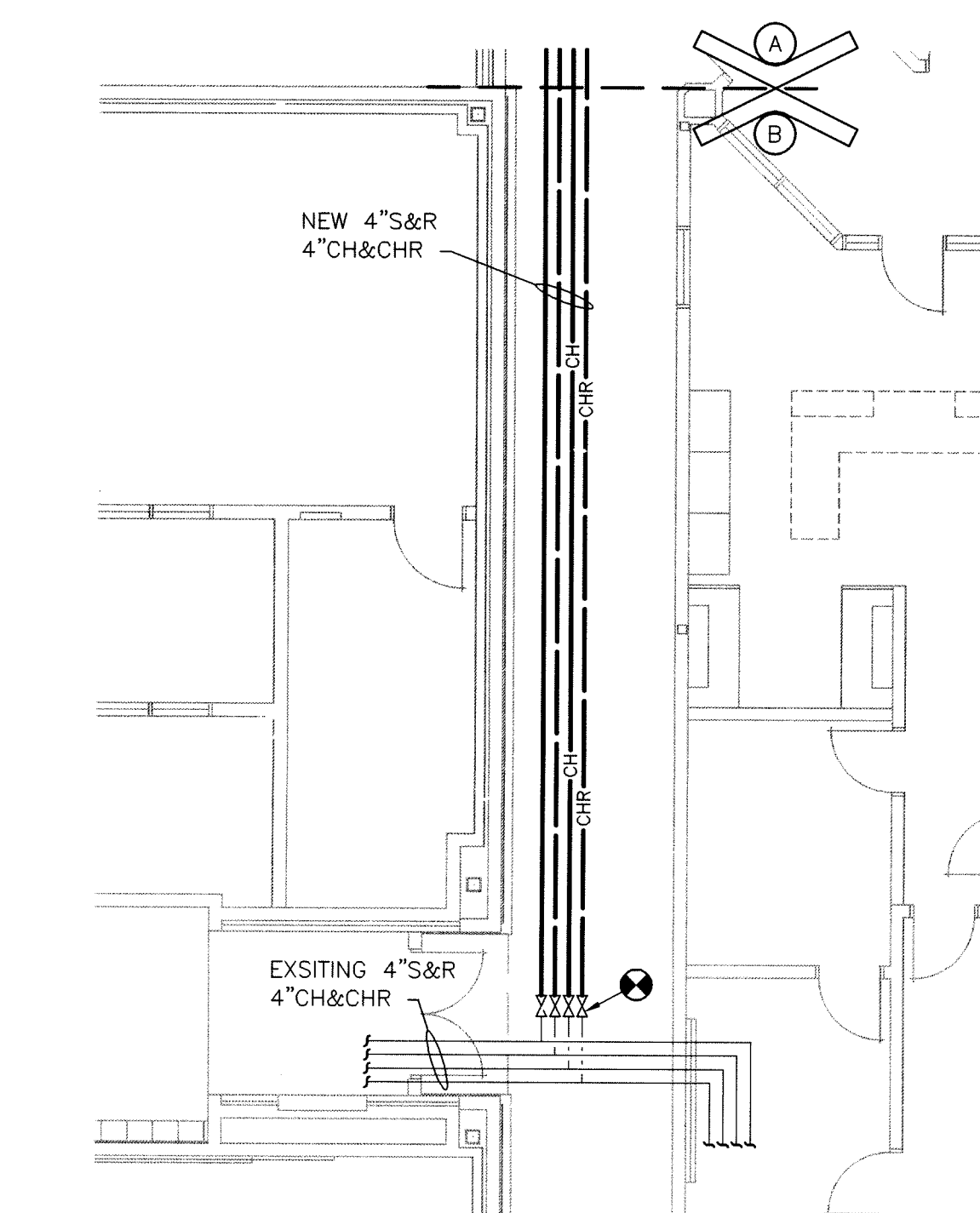


GENERAL NOTES:

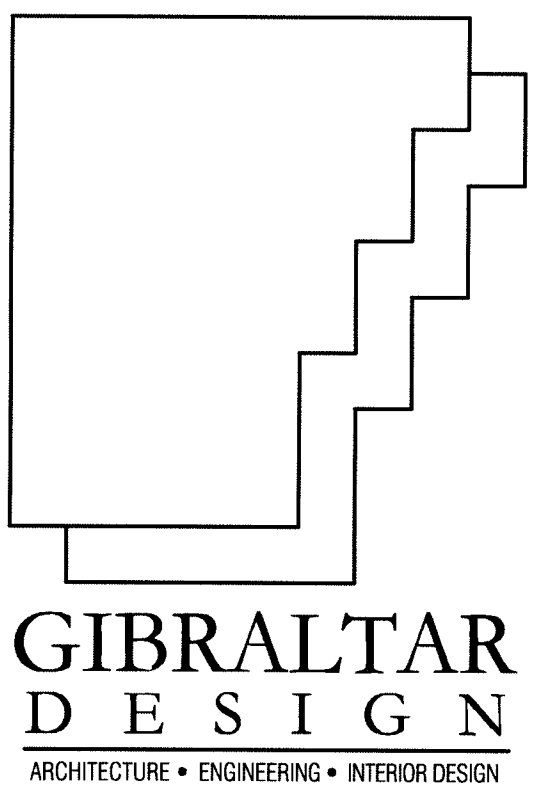
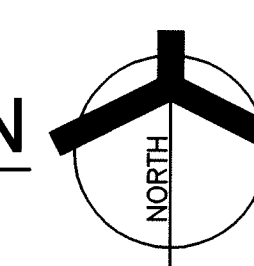
1. SEE SHEET M-501 FOR MECHANICAL DETAILS.
2. SEE SHEET M-601 FOR MECHANICAL LEGEND, GENERAL NOTES AND SCHEDULES.
3. SEE SHEET M-801 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAM.

PLAN NOTES:

- 1 36"x36" DUCT WITH 36"x36" MOTORIZED RELIEF DAMPER UP TO RELIEF VENT ON ROOF. MOTORIZED DAMPER SHALL BE CONTROLLED BY A BUILDING STATIC PRESSURE SENSOR.
- 2 STUB DUCT THRU WALL INTO SPACE ABOVE CEILING.
- 3 24"x12" RETURN AIR GRILLE IN CEILING.
- 4 24"x24" RETURN AIR GRILLE IN CEILING.
- 5 CAPPED 4" SUPPLY AND RETURN, 4" CHILLED WATER AND CHILLED WATER RETURN WITH SHUT-OFF VALVES FOR FUTURE EXPANSION.
- 6 STUB TRANSFER AIR DUCT THRU WALL ABOVE CEILING.
- 7 12"x12" TRANSFER AIR DUCT STUBBED THRU WALL ABOVE CEILING.
- 8 10"x10" UP TO EF-KN9.
- 9 16"x16" UP TO EF-KN5.
- 10 12"x12" ER 380 CFM.
- 11 12"x12" ER 75 CFM.
- 12 12"x12" ER 120 CFM.
- 13 12"x12" ER 385 CFM.
- 14 10"x10" UP TO EF-KN1.
- 15 16"x16" UP TO EF-KN2.
- 16 10"x10" UP TO EF-KN6.
- 17 10"x10" UP TO EF-KN7.
- 18 10"x10" UP TO EF-KN3.
- 19 1 1/4"S&R.
- 20 12"x10"
- 21 12"x12" ER 160 CFM.
- 22 3"S&R, 4"CH&CHR.
- 23 1"S&R.



PLUMBING FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



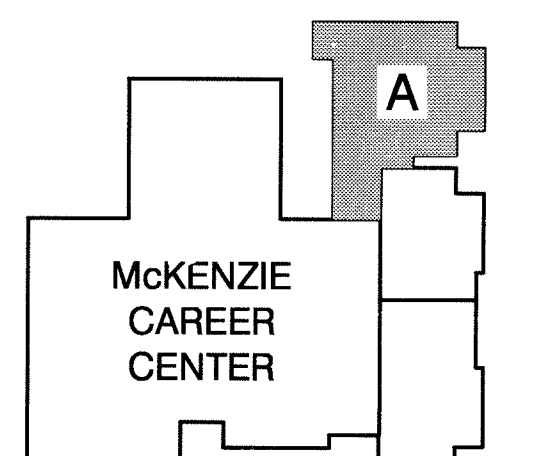
PROJECT

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CENTRALIZED
KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



KEY PLAN

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MARION COUNTY, INDIANA




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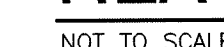
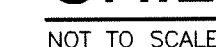
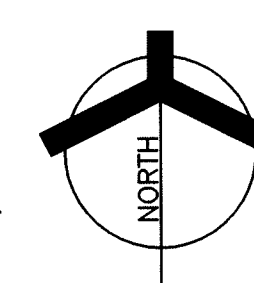
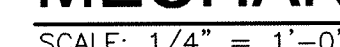


Darrell L. Beals

© GIBRALTAR DESIGN	SHEET
N	M-401

1. SEE SHEET M-501 FOR MECHANICAL DETAILS.
2. SEE SHEET M-601 FOR MECHANICAL LEGEND, GENERAL NOTES AND SCHEDULES.
3. SEE SHEET M-801 FOR MECHANICAL TEMPERATURE CONTROL DIAGRAM.

- (1) INSTALL EQUIPMENT ON A 4" HIGH CONCRETE PAD.
- (2) OUTDOOR AIR AND RETURN AIR MOTORIZED DAMPERS BY TCC.
- (3) VARIABLE FREQUENCY DRIVE.
- (4) TEMPERATURE CONTROL PANEL.
- (5) AIR COOLED CHILLER #A1 ON ROOF.
- (6) FUTURE CHILLER TO BE LOCATED ON ROOF.
- (7) PROVIDE A 4" BLIND FLANGE IN THE SUPPLY AND RETURN PIPING TO RECEIVE A FUTURE BOILER.
- (8) 1" CW MAKE-UP TO HEATING AND COOLING SYSTEM.
- (9) PROVIDE A 4" BLIND FLANGE IN CH & CHR PIPING TO RECEIVE A FUTURE CHILLER.
- (10) 10" Ø BOILER VENT UP, TERMINATE IN RAIN CAP 48" ABOVE ROOF.
- (11) PROVIDE PIPE SLEEVES THRU WALL.
- (12) PROVIDE AND INSTALL 12" HIGH PATE EQUIPMENT RAILS.
- (13) 48" WIDE X 32" HIGH OUTDOOR AIR INTAKE LOUVER BY G.C.
- (14) 48"x32"x12" DOUBLE WALL, 2" INSULATED PLENUM ABOVE LOUVER.
- (15) SUB OUTDOOR AIR DUCTS INTO PLENUM AT THIS POINT.
- (16) 4" CH&CHR PIPING UP THRU ROOF TO ACC-KN1 ON ROOF.
- (17) ALL PIPING ABOVE ROOF SHALL BE INSULATED AND JACKETED WITH PROOF JACKET.
- (18) 16"x16" W/ EXHAUST GRILLE UP TO EF-KN10 ON ROOF.
- (19) (2) 20"x26" COMBUSTION AIR DUCTS UP TO OUTSIDE AIR INTAKE WITH MOTORIZED DAMPER ON ROOF. TERMINATE BACK DUCT AT 12" AFF AND FRONT DUCT AT 12" BELOW STRUCTURE.
- (20) 16"x16" DUCT UP TO OUTSIDE AIR INTAKE ON ROOF.
- (21) CONNECT NEW 4" S&R TO EXISTING 4" S&R AS SHOWN ON DRAWING M-501.
- (22) CONNECT NEW 4" CH&CHR TO EXISTING 4" CH&CHR AS SHOWN ON DRAWING M-501.
- (23) 3" Ø PVC WATER HEATER VENT UP, TERMINATE 48" ABOVE ROOF IN A GOOSENECK.



HVAC LEGEND		
NAME	SYMBOL	ABBREVIATION
HEATING SYSTEM WATER SUPPLY		S
HEATING SYSTEM WATER RETURN		R
CHILLED WATER SUPPLY		CH
CHILLED WATER RETURN		CHR
CONDENSATE DRAIN		D
RELIEF VENT		V
REFRIGERANT LIQUID PIPING		RL
REFRIGERANT GAS SUCTION PIPING		RS
REFRIGERANT GAS DISCHARGE PIPING		RG
SHUT-OFF VALVE		
TRIPLE DUTY VALVE		
CHECK VALVE		
TEMPERATURE REGULATING VALVE		
BALANCING VALVE		
PRESSURE RELIEF VALVE		
PRESSURE REGULATING VALVE		
UNION		
PIPE ANCHOR		
PIPE GUIDE		
PIPING DROP WITH RESPECT TO FLOW		
PIPING RISE WITH RESPECT TO FLOW		
PIPE TEE OUT OF TOP		
PIPE TEE OUT OF BOTTOM		
PRESSURE GAUGE		
THERMOMETER		
STRAINER		
AUTOMATIC AIR VENT		
THERMOSTAT		
FLEXIBLE DUCT		
(SINGLE LINE) SUPPLY SHEET METAL DUCT		
(SINGLE LINE) RETURN SHEET METAL DUCT		
(SINGLE LINE) EXHAUST DUCT		
(SINGLE LINE) DUCT TRANSITION-SYMMETRIC REDUCTION		
(SINGLE LINE) DUCT DROP WITH RESPECT TO FLOW		
(SINGLE LINE) DUCT RISE WITH RESPECT TO FLOW		
DUCT SIZE (1ST FIGURE=WIDTH, 2ND FIGURE=DEPTH)		
ROUND DUCT SIZE		
ROUND DUCT SIZE		
FLAT-OVAL DUCT SIZE		
SUPPLY DUCT SECTION		
EXHAUST OR RETURN AIR DUCT SECTION		
SUPPLY RISER		
EXHAUST RISER		
RELIEF OR RETURN DECK OPENING		
MANUAL VOLUME DAMPER		VD
FIRE DAMPER		FD
BACKDRAFT DAMPER		BD
MOTORIZED DAMPER		MD
SMOKE DAMPER		SD
COMBINATION FIRE/SMOKE DAMPER		FSD
SMOKE DETECTOR		
EXHAUST GRILLE OR REGISTER		ER,EG
RELIEF GRILLE		RG
RETURN AIR REGISTER OR GRILLE		RAR,RAG
SUPPLY AIR REGISTER OR GRILLE		SAR,SAG
CEILING DIFFUSER, TYPE & CFM		CD-A-
LINEAR DIFFUSER, TYPE & CFM		LD-A-
EXHAUST FAN & SCHEDULE DESIGNATION		EF-
ROOF EXHAUST FAN		
CABINET HEATER & SCHEDULE DESIGNATION		CH-
CONVECTOR & SCHEDULE DESIGNATION		CV-
UNIT HEATER & SCHEDULE DESIGNATION		UH-
AIR HANDLING UNIT & SCHEDULE DESIGNATION		AHU-
CIRCULATING PUMP & SCHEDULE DESIGNATION		CP-
VARIABLE AIR VOLUME BOX & SCHEDULE DESIGNATION		VAV-
FAN POWERED VAV BOX & SCHEDULE DESIGNATION		FPB-
AIR FLOW MEASUREMENT STATION		AMS
WATER FLOW CONTROL REGULATOR		
PRESSURE/TEMPERATURE TEST PORT		P/T
VARIABLE FREQUENCY DRIVE		VFD
SPACE PRESSURE SENSOR		PS
PRESSURE TRANSMITTER		PT
VENTILATING CONTRACTOR		VC
MECHANICAL CONTRACTOR		MC
ELECTRICAL CONTRACTOR		EC
TEMPERATURE CONTROL CONTRACTOR		TCC
POINT OF CONNECTION, NEW TO EXISTING		

(NOT ALL SYMBOLS AND ABBREVIATIONS MAY APPLY FOR THIS PROJECT)

GENERAL HVAC NOTES

(APPLY TO ALL HVAC SHEETS)

- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL NEW WORK SHOWN ON THESE SHEETS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID AND MODIFY WORK AS REQUIRED FOR ANY VARIATIONS OR DEVIATIONS FROM THOSE SHOWN ON THESE SHEETS.
- ALL WALLS, LIGHTS, EQUIPMENT, DUCTWORK, PIPING, ETC. SHOWN WITH THIN DOTTED LINES IS EXISTING TO REMAIN CONDITIONS AND SHOULD BE USED FOR REFERENCE ONLY, AND MAY INDICATE NONEXISTENT OR INACCURATE CONDITIONS.
- ALL EQUIPMENT, DUCTWORK AND PIPING SHOWN WITH THICK DASHED LINES IS EXISTING TO BE REMOVED OR RELOCATED.
- ALL EQUIPMENT, DUCTWORK AND PIPING SHOWN WITH THICK SOLID LINES IS NEW WORK.
- ALL BULKHEADS, CANOPIES AND ROOF OVERHANGS SHOWN WITH THIN DOTTED/DASHED LINES AND IS NOT OTHERWISE NOTED, INDICATE LOCATION PROVIDED BY OTHER CONTRACTORS.
- REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL SHEETS AND COORDINATE ALL WORK.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF CEILING DIFFUSERS, RETURN GRILLES, EXHAUST GRILLES, ETC. WITH RESPECT TO CEILING TYPE, CEILING GRID AND LIGHTING FIXTURES.
- ALL PIPING IN PIPE SPACES AND TUNNELS SHALL BE PLACED AS CLOSE TO WALLS AS POSSIBLE TO ALLOW MAXIMUM ACCESS.
- ALL DUCTWORK AND PIPING ABOVE CEILING SHALL BE PLACED TO AVOID LIGHTING FIXTURES, JOISTS, BEAMS, ETC.
- PROVIDE A MANUAL BALANCING DAMPER IN EACH ZONE DUCTWORK OF ALL MULTIZONE AIR HANDLING UNITS AS CLOSE TO UNITS AS POSSIBLE.
- PROVIDE CEILING ACCESS PANELS FOR ACCESS TO VOLUME DAMPERS, FIRE AND SMOKE DAMPERS, SHUT-OFF VALVES, CONTROL VALVES, DRAIN VALVES, EQUIPMENT, ETC. LOCATED ABOVE NON-ACCESSIBLE CEILINGS (INCLUDES ALL EXISTING ITEMS REQUIRING ACCESS WHERE NEW NON-ACCESSIBLE CEILINGS OCCUR). COORDINATE ALL ACCESS PANELS WITH THE ARCHITECT.
- CONTRACTOR SHALL CORE DRILL HOLES THROUGH FLOORS, WALLS, DECKS, ETC. WHERE PASSAGE IS NOT AVAILABLE TO INSTALL NEW PIPING. PROVIDE PIPE SLEEVES AND PROPERLY SEAL ALL PIPE PENETRATIONS AS REQUIRED. REFER TO SPECIFICATIONS.
- ARROWS ON ALL DOMESTIC, HEATING AND CHILLED WATER, GAS, COMPRESSED AIR, ETC. PIPING MAINS INDICATE DIRECTION OF FLOW. PITCH PIPING MAINS UP A MINIMUM OF 1" PER 50'-0" IN DIRECTION OF SUPPLY WATER FLOW.
- ALL FAN COIL UNIT CONDENSATE DRAINS ABOVE GRADE SHALL BE TYPE "L" HARD COPPER TUBING AND SHALL BE SIZED AS FOLLOWS: 1" DRAIN FOR ONE COIL, 1 1/4" DRAIN FOR TWO COILS, 1 1/2" DRAIN FOR THREE COILS, 2" DRAIN FOR FOUR OR MORE COILS. ALL BELOW GRADE DRAINS SHALL BE 2" EXTRA HEAVY CAST IRON SOIL PIPE AND SHALL SLOPE 1/8" PER 1'-0" UNLESS OTHERWISE NOTED.
- ALL AUTOMATIC TEMPERATURE REGULATING VALVES SHALL BE SIZED FOR 5 PSI MAXIMUM WATER PRESSURE DROP.
- VALVE ALL HEATING AND CHILLED WATER BRANCHES IN FAN AND MECHANICAL ROOMS. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL VALVES IN ALL PIPING AS REQUIRED TO FACILITATE OPERATION OF VARIOUS SYSTEMS DURING CONSTRUCTION.
- HEATING AND CHILLED WATER BRANCHES TO CONVECTORS AND FAN COIL UNITS SHALL BE 3/4" FOR UNITS UNDER 3 GPM AND 1" FOR UNITS OVER 3 GPM. 1" SIZE TO ALL FINNED TUBE, CABINET HEATERS, UNIT HEATERS AND VAV RE-HEAT COILS UNLESS OTHERWISE NOTED.
- ALL THERMOSTATS SHALL BE APPROXIMATELY 4'-6" ABOVE FINISHED FLOOR AND LINED UP VERTICALLY WITH LIGHT SWITCHES UNLESS OTHERWISE NOTED OR DIRECTED BY ARCHITECT.
- ALL THERMOSTATS IN BOILER AND MECHANICAL ROOMS SHALL BE SET AT 50 DEGREES FAHRENHEIT.
- PAINT ALL AREAS ABOVE CEILING THAT ARE VISIBLE THROUGH CEILING RETURN AIR GRILLES A FLAT BLACK.

CV NO.	AREA SERVED	TRANE MODEL NUMBER	MBH	LENGTH	HEIGHT	DEPTH	WATER RATE GPM	WALL RECESS DEPTH	SEE NOTE
A	SEE DRAWINGS	RG4SOL	2.5	26"	24"	4"	0.5	3 9/16"	1
B	SEE DRAWINGS	RG4SOL	3.1	32"	24"	4"	0.5	3 9/16"	1

NOTES:

- HEATING CAPACITIES ARE BASED ON 65 °F ENTERING AIR, 180 °F ENTERING WATER AND 40 °F WATER TEMPERATURE DROP.

CH NO.	ROOM SERVED	TRANE MODEL NUMBER	TYPE AND ARRANGEMENT	MBH	FAN SPEED RPM	WATER RATE GPM	MOTOR HP	CFM	WALL RECESS DEPTH	SEE NOTE
KN1	A-112	FFHB 040	VERTICAL RECESSED	26.6	700	2.0	1/30	400	8 1/2"	1,2,3
KS1	A-101	FFEB 040	HORIZONTAL RECESSED	26.6	700	2.0	1/30	400	-	1,2
KS2	A-101	FFEB 040	HORIZONTAL RECESSED	26.6	700	2.0	1/30	400	-	1,2
KS3	A-103	FFEB 040	HORIZONTAL RECESSED	26.6	700	2.0	1/30	400	-	1,2
KS4	A-103	FFEB 040	HORIZONTAL RECESSED	26.6	700	2.0	1/30	400	-	1,2

NOTES:

- HEATING CAPACITIES ARE BASED ON 65 °F ENTERING AIR 180°F ENTERING WATER AND 40 °F WATER TEMPERATURE DROP AT LOW SPEED OPERATION, FINAL AIR TEMPERATURE SHALL BE 110 °F TO 140 °F.
- MOTOR SHALL BE MULTI-SPEED 115 VOLT, 1 PHASE, 60 HERTZ.
- PROVIDE ACCESSIBLE HOSE BIBB IN CABINET FOR SYSTEM DRAIN.

AIR HANDLING UNIT SCHEDULE

AHU NO.	AREA SERVED	TYPE AND ARRANGEMENT	TRANE MODEL NUMBER	CFM	MAXIMUM FAN OUTLET VELOCITY FPM	MINIMUM EXTERNAL STATIC PRESSURE "W.C."	MINIMUM FAN MOTOR HP	MINIMUM CFM OF OUTDOOR AIR	SEE NOTE
AHU-KN1	KITCHEN & EAT & PLAY	DRAW-THROUGH VARIABLE AIR VOLUME	MCCB-10	4,110	1780	2.0	7.5	1125	1,2
AHU-KN2	CLASSROOMS & ADMINISTRATION	DRAW-THROUGH VARIABLE AIR VOLUME	MCCB-21	9,200	1820	2.0	15	2790	1,2,3
AHU-KN3	TECHNOLOGY	DRAW-THROUGH VARIABLE AIR VOLUME	MCCB-06	2,130	1510	1.5	3	150	1,2
AHU-KS1	KITCHEN & EAT & PLAY	DRAW-THROUGH VARIABLE AIR VOLUME	MCCB-12	5,200	1865	2.0	7.5	1125	1,2

NOTES:

- ALL EQUIPMENT SHALL BE SELECTED IN STRICT ACCORDANCE WITH THE MAXIMUM AND MINIMUM QUANTITIES SHOWN.
- MOTOR DATA: 460 VOLTS, 3 PHASES, 60 HERTZ.
- PROVIDE PLUG FAN.

AIR HANDLING UNIT COOLING COIL SCHEDULE (CHW)

AHU NO.	CFM	TOTAL LOAD MBH	ENTERING AIR		LEAVING AIR		WATER		MAXIMUM FACE VELOCITY FPM	AIR PRESSURE DROP " W.C.	MINIMUM NUMBER OF ROWS	SEE NOTE
			DRY BULB °F	WET BULB °F	DRY BULB °F	WET BULB °F	MAXIMUM GPM	MAXIMUM PRESSURE DROP (FT)				
KN1	4,110	150	79.9	66.2	55	54.2	25.0	2.85	430	.50	6	1,2
KN2	9,200	370	79.9	66.2	55	54.2	61.0	5.75	445	.50	6	1,2
KN3	2,130	72	79.2	65.9	55	54.8	12.0	.75	365	.45	6	1,2
KS1	5,200	185	79.9	66.2	55	54.2	32.0	3.0	425	.45	6	1,2

NOTES:

- ALL EQUIPMENT SHALL BE SELECTED IN STRICT ACCORDANCE WITH MAXIMUM AND MINIMUM QUANTITIES SHOWN.
- COOLING CAPACITIES ARE BASED ON 42°F ENTERING WATER AND 12 °F WATER TEMPERATURE RISE.

AIR HANDLING UNIT HEATING COIL SCHEDULE (HW)

AHU NO.	CFM	TOTAL LOAD MBH	EAT °F	LAT °F	WATER		MAXIMUM FACE VELOCITY FPM	AIR PRESSURE DROP " W.C.	MINIMUM NUMBER OF ROWS	SEE NOTE
					MAXIMUM GPM	MAXIMUM PRESSURE DROP (FT)				
KN1	4,110	221	50.5	100	11.0	.40	430	.15	2	1,2,3,4
KN2	9,200	540	50.5	100	27.0	.60	445	.15	2	1,2,3,4
KN3	2,130	83	50.5	100	4.2	.10	365	.10	2	1,2,3,4
KS1	5,200	270	50.5	100	14.0	.30	425	.12	2	1,2,3,4

NOTES:

- ALL EQUIPMENT SHOWN SHALL BE SELECTED IN STRICT ACCORDANCE WITH THE MAXIMUM AND MINIMUM QUANTITIES SHOWN.
- CAPACITIES ARE BASED ON -10 °F OUTDOOR AIR, 180 °F ENTERING WATER, AND 40 °F WATER TEMPERATURE DROP.
- MINIMUM WATER VELOCITY: 2.5 FPS.
- PRE-HEAT COIL WITH CIRCULATING PUMP.

CEILING DIFFUSER SCHEDULE

CD TYPE	KRUEGER MODEL NUMBER	NECK SIZE	PATTERN	PANEL SIZE	SEE NOTE
A	SERIES 1400	6"ø	4-WAY	24"x24"	1,2,3,4
B	SERIES 1400	8"ø	4-WAY	24"x24"	1,2,3,4
C	SERIES 1400	10"ø	4-WAY	24"x24"	1,2,3,4
D	SERIES 1400	12"ø	4-WAY	24"x24"	1,2,3,4
E	SERIES 1400	14"ø	4-WAY	24"x24"	1,2,3,4
F	SERIES 1400	15"ø	4-WAY	24"x24"	1,2,3,4

NOTES:

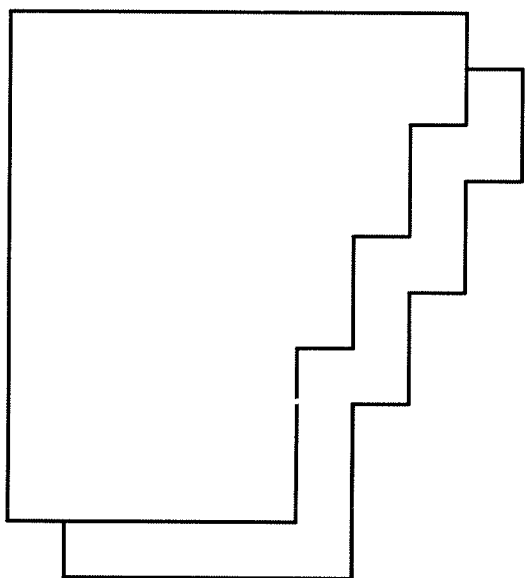
- DIFFUSER SHALL BE FULLY ADJUSTABLE.
- NC LEVEL SHALL NOT EXCEED 30 dB.
- FRAME TYPE AS REQUIRED FOR CEILING TYPE, SEE ROOM FINISH SCHEDULE.
- PROVIDE DIFFUSER WITH RADIATION DAMPER AND BLANKET WHERE REQUIRED SEE LIFE SAFETY PLAN.

EXHAUST FAN SCHEDULE

EF NO.	AREA EXHAUSTED	TYPE	GREENHECK MODEL NUMBER	BACKDRAFT DAMPER SIZE	CFM	SP. " OF W.C.	FAN RPM	MOTOR DATA			CONTROL NOTE #1	SEE NOTE
								HP	VOLTS	PHASE		
KN1	A-105, A-106, A-111	ROOF	GB 101-4	12"x12"	430	.375	1725	1/4	115	1	ZONE #2	2,3
KN2	A-112	ROOF	GB 141-4	16"x16"	1540	.375	1725	1/3	115	1	M	2,3
KN3	A-113	ROOF	GB 70-6	10"x10"	160	.375	1725	1/6	115	1	ZONE #1	2,3
KN4	A-134, A-137	ROOF	GB 90-4	10"x10"	455	.375	1725	1/4	115	1	ZONE #2	2,3
KN5	A-122, A-124, A-129, A-131, A-136, A-138, A-145, A-146	ROOF	GB 141-4	16"x16"	1210	.50	1725	1/4	115	1	ZONE #2	2,3
KN6	A-123, A-130	ROOF	GB 70-6	10"x10"	215	.375	1725	1/6	115	1	ZONE #2	2,3
KN7	A-127	ROOF	GB 90-4	10"x10"	500	.375	1725	1/4	115	1	(T)	3
KN8	A-201	ROOF	GB 141-4	16"x16"	1500	.375	1725	1/3	115	1	(T)	3
KN9	A-116, A-151	ROOF	GB 101-4	12"x12"	440	.375	1725	1/4	115	1	ZONE #3	
KN10	A-101	ROOF	GB 141-4	16"x16"	1600	.375	1725	1/3	115	1	(T)	
KS1	A-105, A-107	ROOF	GB 70-6	10"x10"	1320	.375	1725	1/4	115	1	ZONE #1	2,3
KS2	A-104	ROOF	GB 121-4	12"x12"	700	.375	1725	1/4	115	1	M	2,3
KS3	A-110, A-111, A-112	ROOF	GB 121	12"x12"	600	.375	1725	1/4	115	1	ZONE #1	

NOTES:

- CONTROL DESIGNATIONS: (ZONE#) FAN TO BE CONTROLLED AUTOMATICALLY BY TEMPERATURE CONTROL ZONE SHOWN, (M) FAN TO BE CONTROLLED BY MANUAL SWITCH PROVIDED BY ELECTRICAL CONTRACTOR, INTERLOCKED THROUGH DAY/NIGHT ZONE# SHOWN, (T) FAN TO BE CONTROLLED BY THERMOSTAT PROVIDED BY TEMPERATURE CONTROL CONTRACTOR, (H) FAN TO BE CONTROLLED BY HUMIDISTAT PROVIDED BY TEMPERATURE CONTROL CONTRACTOR, (TM) FAN TO BE CONTROLLED BY TIMER PROVIDED BY ELECTRICAL CONTRACTOR, (EPE) FAN TO BE CONTROLLED AUTOMATICALLY BY REFRIGERANT PURGE EXHAUST SYSTEM PROVIDED BY TEMPERATURE CONTROL CONTRACTOR, SEE SPECIFICATIONS.
- TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE PRESSURE ELECTRIC SWITCHES TO CONTROL EXHAUST FAN CONTRACTORS. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS.
- INSTALL FAN ON 18" HIGH PREFABRICATED CURB PROVIDED BY FAN MANUFACTURER.



**GIBRALTAR
DESIGN**
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

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PROJECT
02-580

DATE
04/21/03

COORDINATED BY
AJP

DRAWN BY
CSZ

BOILER SCHEDULE												
B NO.	TYPE	MANUFACTURER	MODEL NUMBER	BOILER DATA			BURNER DATA				SEE NOTE	
				INPUT MBH	OUTPUT MBH	NOMINAL BOILER HP	GAS CFH	#2 OIL GPH	MOTOR KW	VOLTS		PHASE
KN1	CONDENSING	WESSMANN	WSB-57	2160	2000	60	2160	-	1.4	460	3	1.2

NOTES:

- CAPACITIES ARE BASED ON NATURAL GAS HEATING CONTENT OF 1000 BTU/CUBIC FT.
- GAS PRESSURE TO GAS TRAIN REGULATOR IS 14".

EXPANSION TANK SCHEDULE					
NO.	SYSTEM SERVED	BELL & GOSSETT MODEL NO.	VOLUME		PRE-CHARGE PRESSURE PSI
			TANK	ACCEPTANCE	
KN1	HEATING WATER	B-2000	528	528	12PSI
KN2	CHILLED WATER	B-800	211	211	12PSI

AIR COOLED CHILLER SCHEDULE																
ACCH. NO.	TRANE MODEL NUMBER	CAPACITY (TONS)	EVAPORATOR			AIR COOLED CONDENSER								MCA	SEE NOTE	
						COMPRESSOR DATA (EACH)				CONDENSER FAN DATA (EACH)						
			GPM	EWI 'F	LWT 'F	QTY	RLA	LRa	VOLTS	PHASE	QTY	FLA	VOLTS			PHASE
KN1	CGAF-C50	50	100	42	52	4	(2) 15.5 (3) 24.2	(2) 110 (2) 174	450	3	6	1.7	460	3	97	—

NOTES:

- UNIT SUPPLIER SHALL SUBMIT A REFRIGERATION PIPING DIAGRAM FOR APPROVAL. SHOWING ALL VALVES, TRAPS, HOT GAS BYPASS, ETC.
- UNIT SHALL HAVE -10 'F LOW AMBIENT CONTROL.
- CAPACITIES ARE BASED ON 'F SUCTION TEMPERATURE. 'F CONDENSING TEMPERATURE AND 95 'F AMBIENT TEMPERATURE.
- PROVIDE SPLIT SYSTEM WITH REMOTE EVAPORATOR.
- COOLING SYSTEM SHALL HAVE TWO REFRIGERANT CIRCUITS.

FAN POWERED VARIABLE AIR VOLUME BOX SCHEDULE											
FPB NO.	ROOM SERVED	PRIMARY AIR		AIR INLET	HEATING COIL			FAN HP	TRANE MODEL NUMBER	SERVED BY AHU	SEE NOTE
		MAXIMUM CFM	MINIMUM CFM		CAPACITY MBH	GPM	ROW				
KN1	A-139	1300	520	12"	56.4	3.0	2	1/2	VSWF 12	KN2	1,2,3,4
KN2	A-135	1300	520	12"	56.4	3.0	2	1/2	VSWF 12	KN2	1,2,3,4
KN3	A-132	1320	525	12"	56.4	3.0	2	1/2	VSWF 12	KN2	1,2,3,4
KN4	A-128	1320	525	12"	56.4	3.0	2	1/2	VSWF 12	KN2	1,2,3,4
KN5	A-125	1300	520	12"	56.4	3.0	2	1/2	VSWF 12	KN2	1,2,3,4
KN6	A-121	1300	520	12"	56.4	3.0	2	1/2	VSWF 12	KN2	1,2,3,4
KN7	A-112	1400	560	14"	60.4	3.0	2	1/2	VSWF 14	KN1	1,2,3,4
KN8	A-115	1185	475	12"	51.4	2.6	2	1/2	VSWF 12	KN1	1,2,3,4
KN9	A-115	1185	475	12"	51.4	2.6	2	1/2	VSWF 12	KN1	1,2,3,4
KN10	A-115	1185	475	12"	51.4	2.6	2	1/2	VSWF 12	KN1	1,2,3,4
KN12	A-118	1760	705	14"	76.0	4.0	2	1/2	VSWF 14	KN3	1,2,3,4
KN11	A-119	200	80	5"	8.6	0.5	2	1/3	VSWF 05	KN3	1,2,3,4
KS1	A-101	900	360	10"	39.9	2.0	2	1/3	VSWF 10	KS1	1,2,3,4
KS2	A-102	800	320	10"	34.6	2.0	2	1/3	VSWF 10	KS1	1,2,3,4
KS3	A-102,103	1300	520	12"	56.4	3.0	2	1/2	VSWF 12	KS1	1,2,3,4
KS4	A-102	1300	520	12"	56.4	3.0	2	1/2	VSWF 12	KS1	1,2,3,4
KS5	A-104	1400	560	14"	60.4	3.0	2	1/2	VSWF 14	KS1	1,2,3,4

VAV NO.	ROOM SERVED	CFM		AIR INLET	HEATING COIL			TRANE MODEL NUMBER	SERVED BY AHU	SEE NOTE
		MAXIMUM	MINIMUM		CAPACITY MBH	GPM	ROW			
KN1	A-109	250	100	5ø	5.4	0.5	1	VCWE 03	KN2	—
KN2	A-110	225	90	5ø	4.9	0.5	1	VCWE 03	KN2	—
KN3	A-108	225	90	5ø	4.9	0.5	1	VCWE 03	KN2	—
KN4	A-150	450	180	6ø	9.7	1.0	1	VCWE 06	KN2	—
KN5	A-104	550	220	8ø	11.9	1.0	1	VCWE 11	KN2	—
KN6	A-103	340	140	6ø	7.3	1.0	1	VCWE 06	KN2	—
KN7	A-143	600	250	8ø	13.6	1.0	1	VCWE 11	KN2	—
KN8	A-144	140	50	5ø	2.7	0.5	1	VCWE 03	KN2	—
KN9	A-120	150	40	5ø	3.2	0.5	1	VCWE 03	KN3	—
KS1	A-109	400	160	6ø	8.6	1.0		VCWE 06	KS1	—

NOTES:

1. NC LEVEL SHALL NOT EXCEED 33 BASED ON 10 db ROOM EFFECT IN EACH OCTAVE BAND AND 1/2 PASS STC-39 CEILING TRANSMISSION LOSS.
2. HEATING COIL CAPACITIES ARE BASED ON 180 °F ENTERING WATER AND 40 °F.

UNIT HEATER SCHEDULE									
UH NO.	ROOM SERVED	TRANE MODEL NUMBER	TYPE AND ARRANGEMENT	MBH	CFM	WATER RATE GPM	HP	FAN SPEED RPM	SEE NOTE
KN1	A-101	100 S	HORIZONTAL PROPELLOR	62.5	1335	6.2	1/8	1550	1,2
KN2	A-102	100 S	HORIZONTAL PROPELLOR	62.5	1335	6.2	1/8	1550	1,2
KN3	A-201	100 S	HORIZONTAL PROPELLOR	62.5	1335	6.2	1/8	1550	1,2
KN4	A-117	100 S	HORIZONTAL PROPELLOR	62.5	1335	6.2	1/8	1550	1,2
KS1	A-108	100 S	HORIZONTAL PROPELLOR	62.5	1335	6.2	1/8	1550	1,2

NOTES:

- HEATING CAPACITIES ARE BASED ON 60 °F ENTERING AIR, 180 °F ENTERING WATER AND 40 °F WATER TEMPERATURE DROP, FINAL AIR TEMPERATURE SHALL BE 110 °F TO 140 °F.
- MOTORS SHALL BE MULTI-SPEED, 115 VOLTS, 1 PHASE, 60 HERTZ.

CIRCULATING PUMP SCHEDULE							
CP NO.	SYSTEM SERVED	BELL AND GOSSETT MODEL NUMBER		GPM	FEET HEAD	HP	SEE NOTE
		SERIES	SIZE				
KN1	CHILLED WATER SYSTEM	SERIES 1510	2BC	100	65	5	1,2
KN2	CHILLED WATER SYSTEM	SERIES 1510	2BC	100	65	5	1,2
KN3	HEATING SYSTEM	SERIES 1510	2BC	110	60	5	1,2
KN4	HEATING SYSTEM	SERIES 1510	2BC	110	60	5	1,2
KN5	AHU-KN1 HEATING COIL	SERIES 90	1 1/4 AA	11	20	3/4	1
KN6	AHU-KN2 HEATING COIL	SERIES 90	1 1/4 AA	27	20	3/4	1
KN7	AHU-KN3 HEATING COIL	SERIES 90	1 1/4 AA	4.5	20	3/4	1
KS1	AHU-KS1 HEATING COIL	SERIES 60	2AA	48	20	3/4	1

NOTES:

- PUMP MOTOR: 460 VOLTS, 3 PHASE, 60 HERTZ, 1750 RPM.
- PUMP SHALL OPERATE AS 100% STAND-BY PUMP.



NORTH & SOUTH CAMPUS ADDITIONS

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PROJECT
02-580

DATE
04/21/03

COORDINATED BY

DRAWN BY

CHECKED BY

AGN DLB

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REVISIONS		
MARK	DATE	ISSUED FOR
	04/21/03	CD BID SET ISSUED

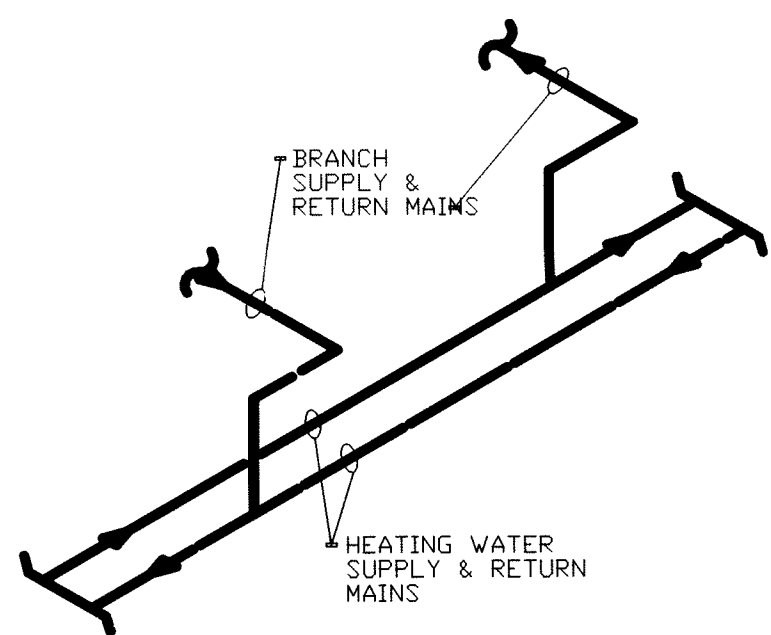
DRAWING MECHANICAL SCHEDULES

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

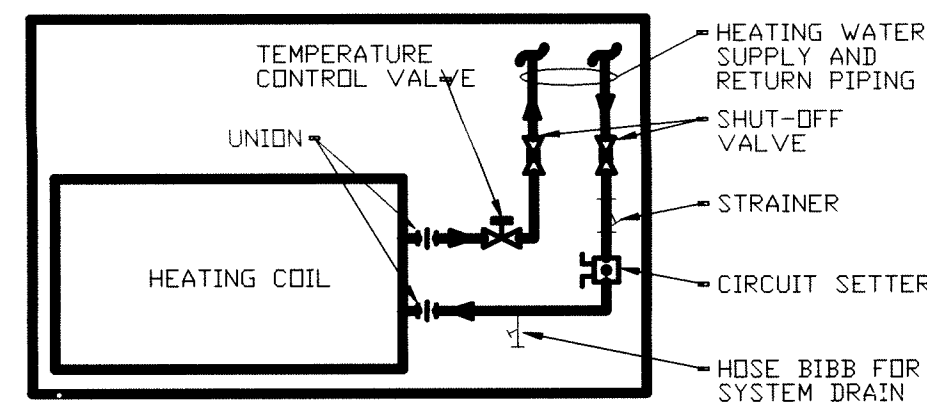
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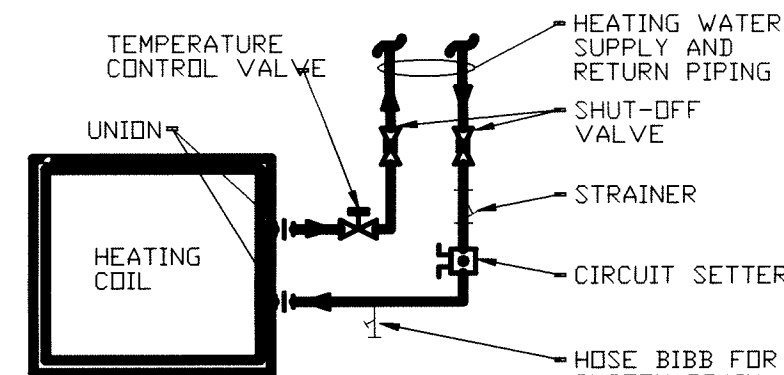
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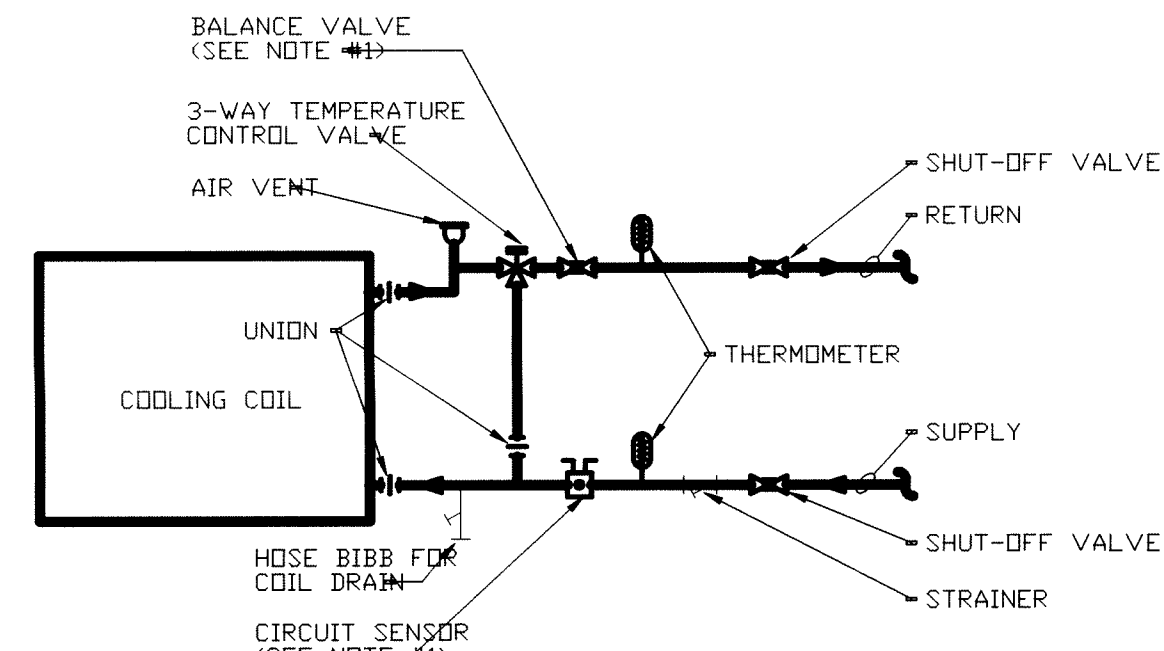
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NOT TO SCALE



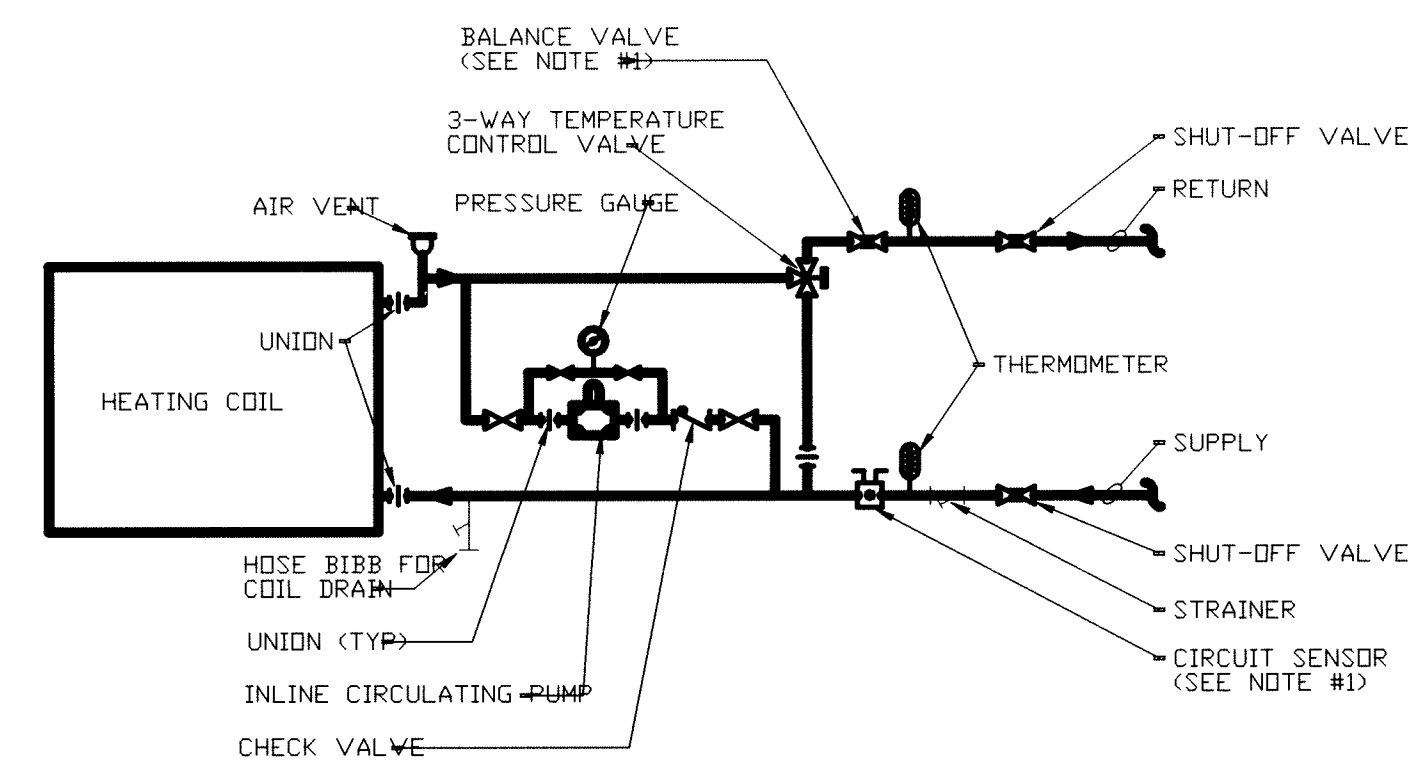
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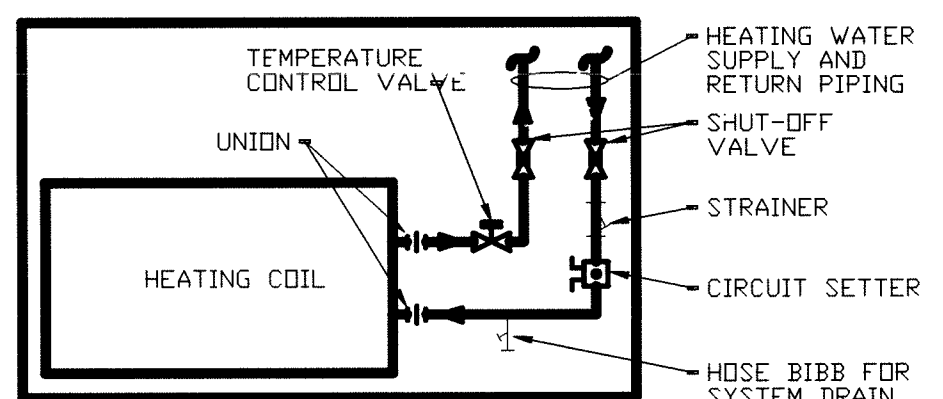
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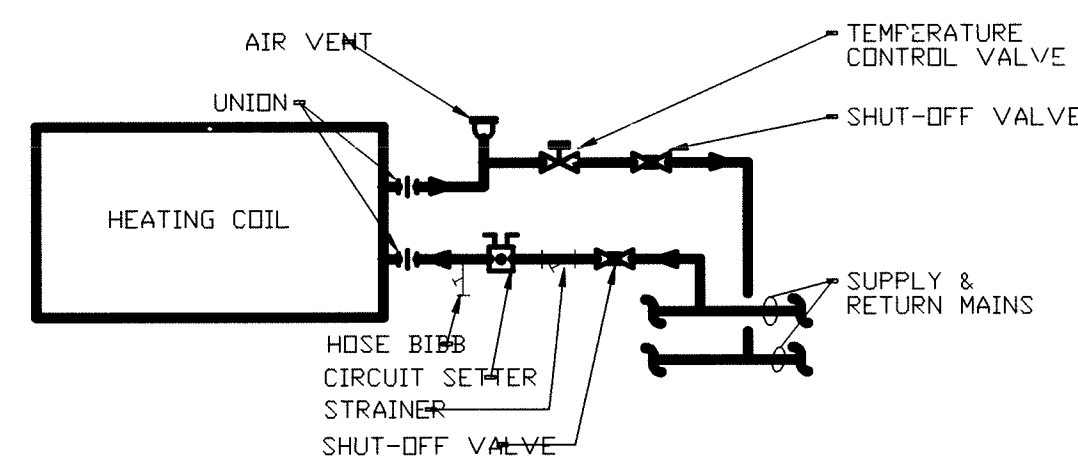
AHU CHILLED WATER COIL PIPING DIAGRAM
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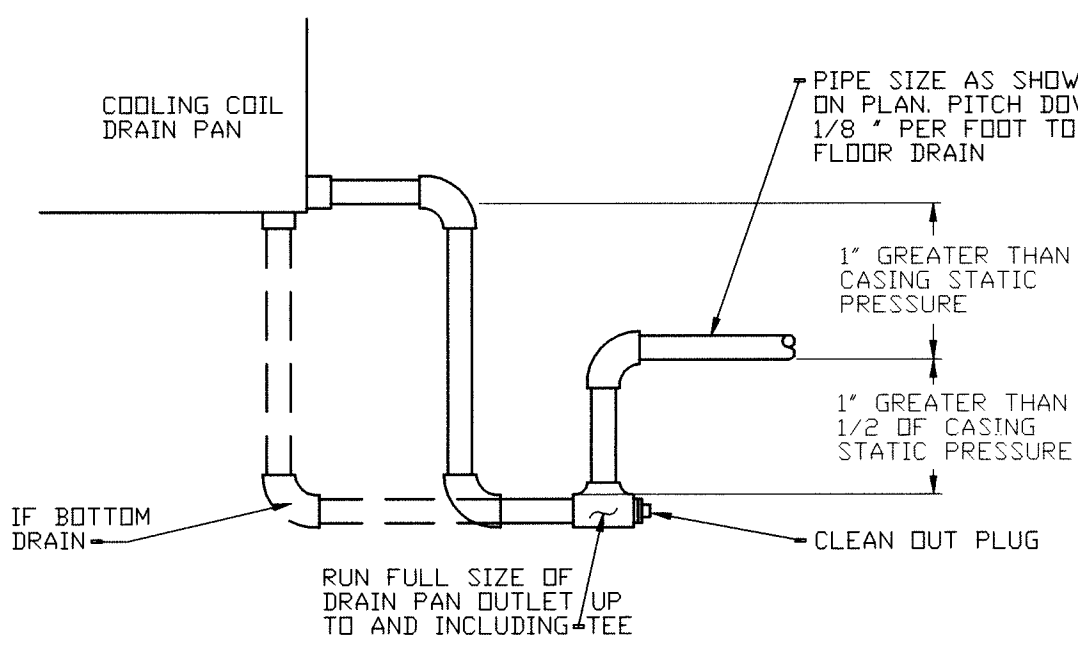
AHU PUMPED HOT WATER HEATING COIL PIPING DIAGRAM
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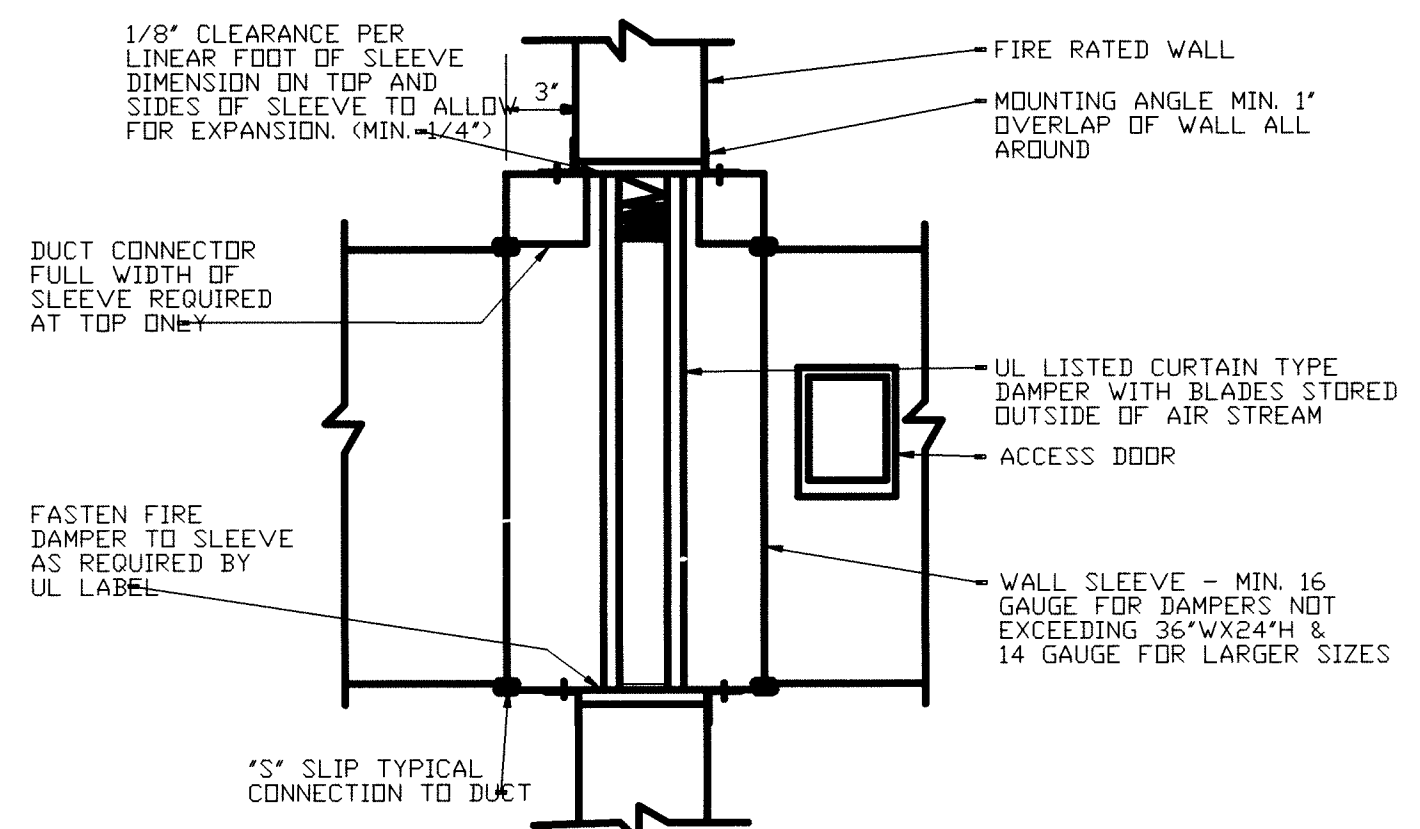
CONVECTOR PIPING DIAGRAM
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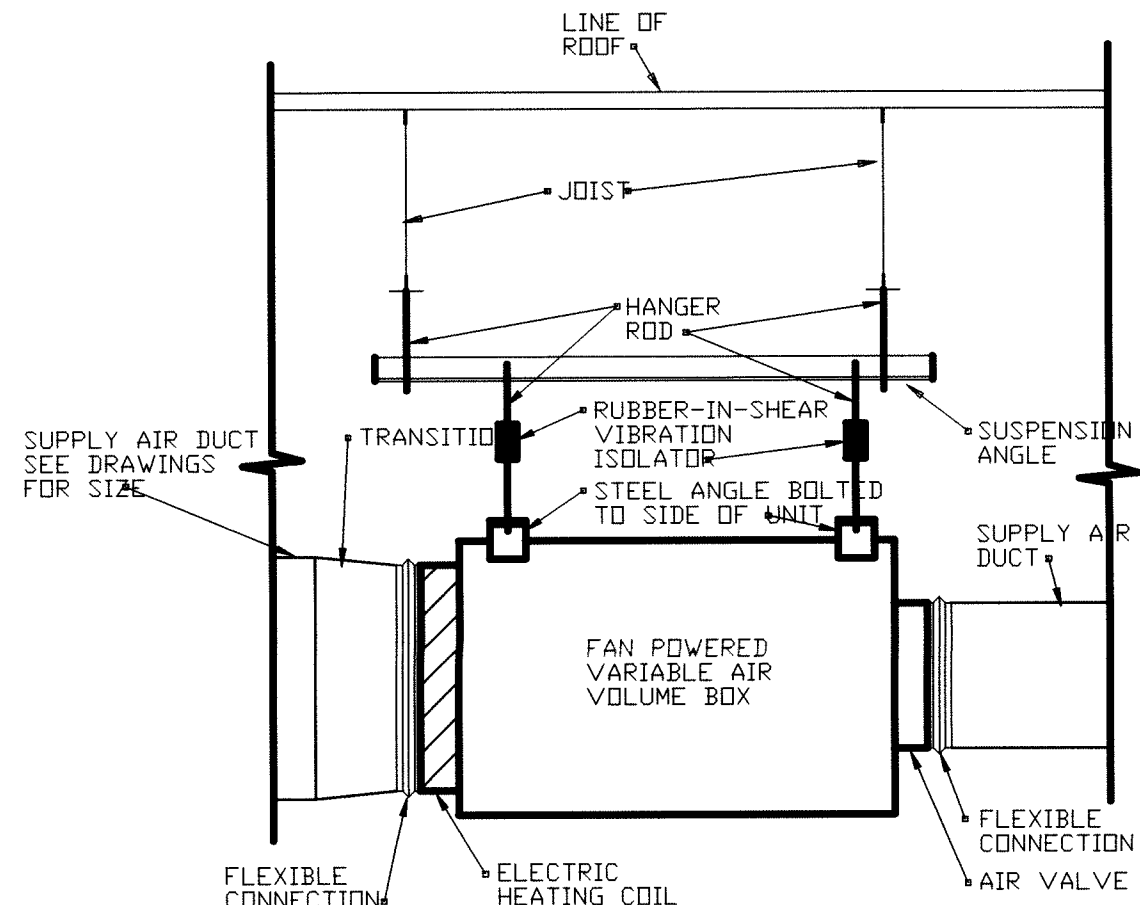
VAV OR FAN POWERED VAV BOX PIPING DIAGRAM
NOT TO SCALE



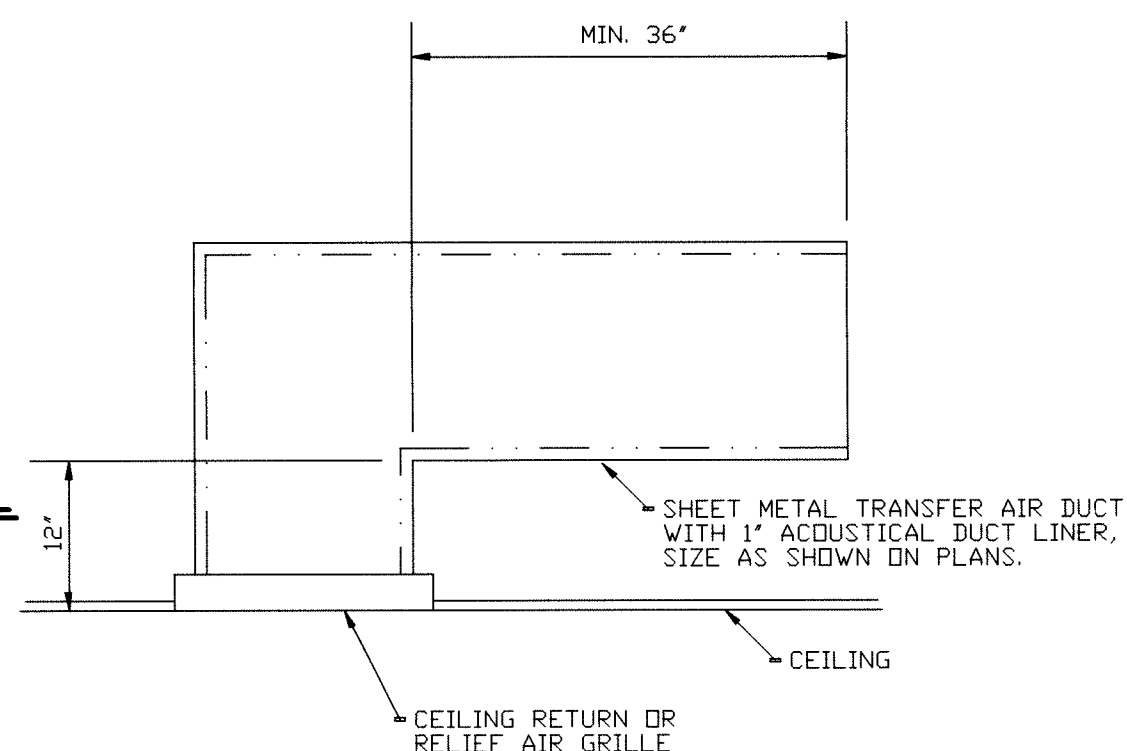
COOLING COIL CONDENSATE DRAIN PIPING DETAIL (DRAW THRU COIL)
NOT TO SCALE



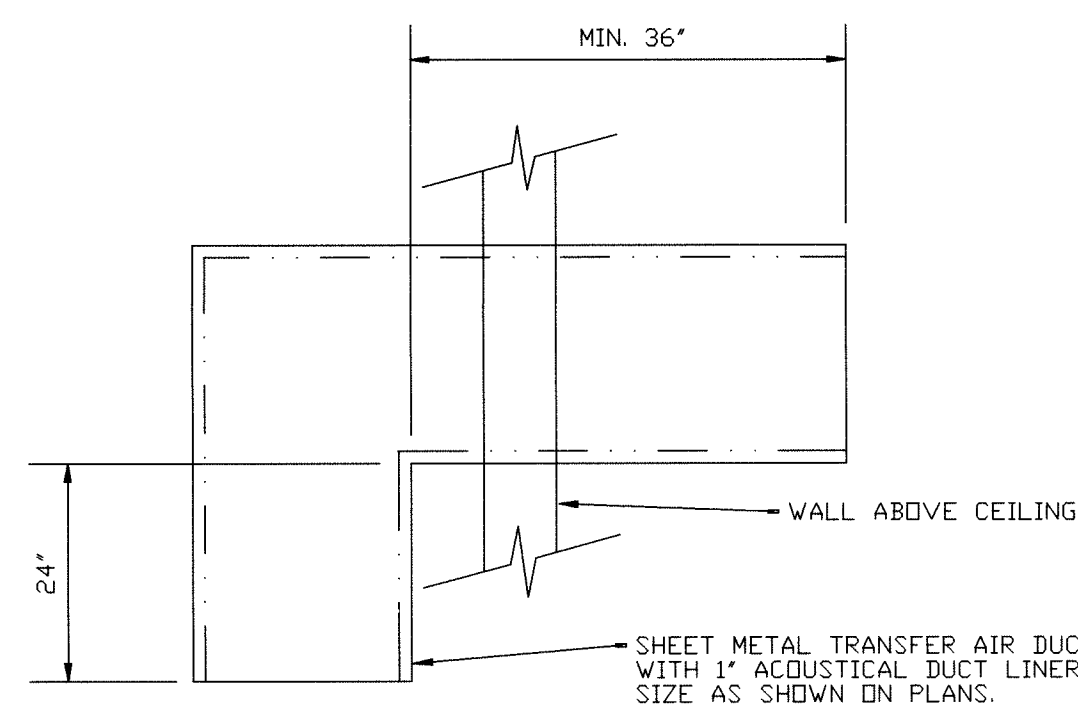
TYPICAL WALL FIRE DAMPER DETAIL
NOT TO SCALE



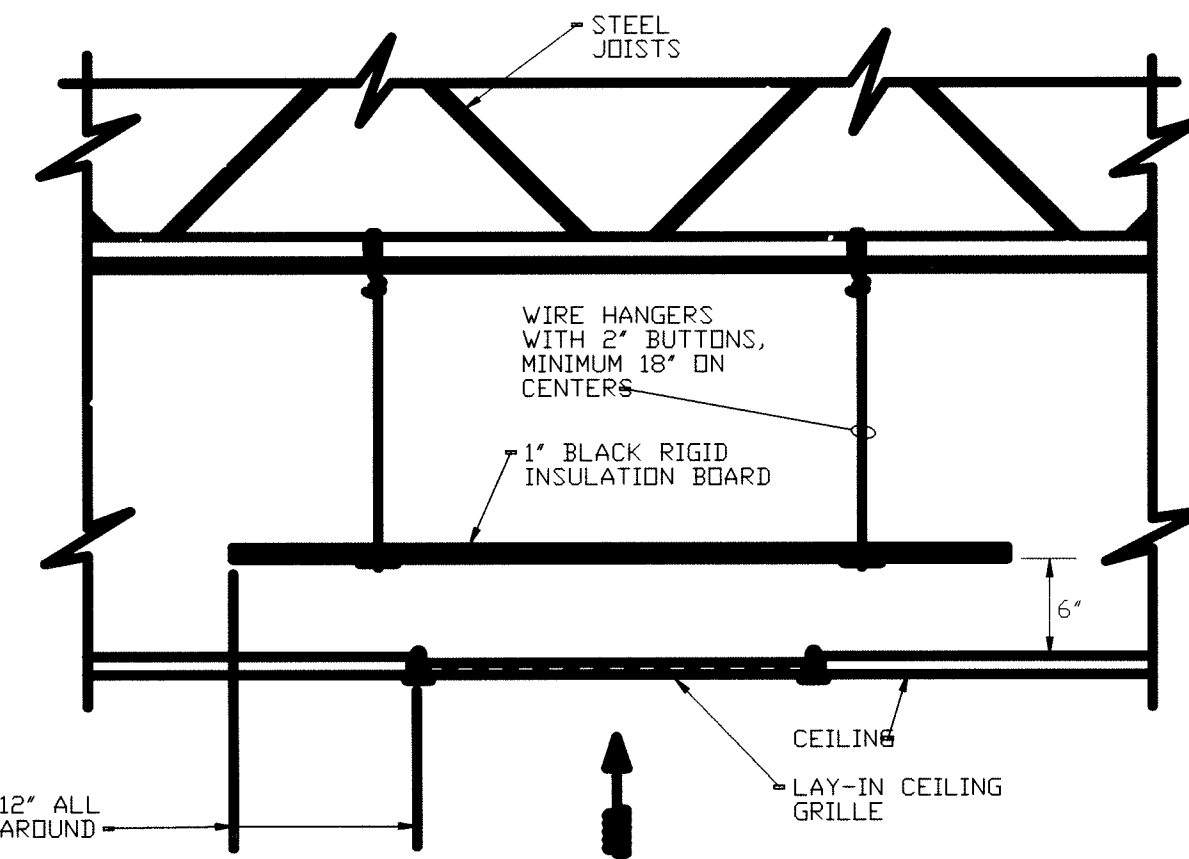
FAN POWERED VARIABLE AIR VOLUME BOX MOUNTING DETAIL
NOT TO SCALE



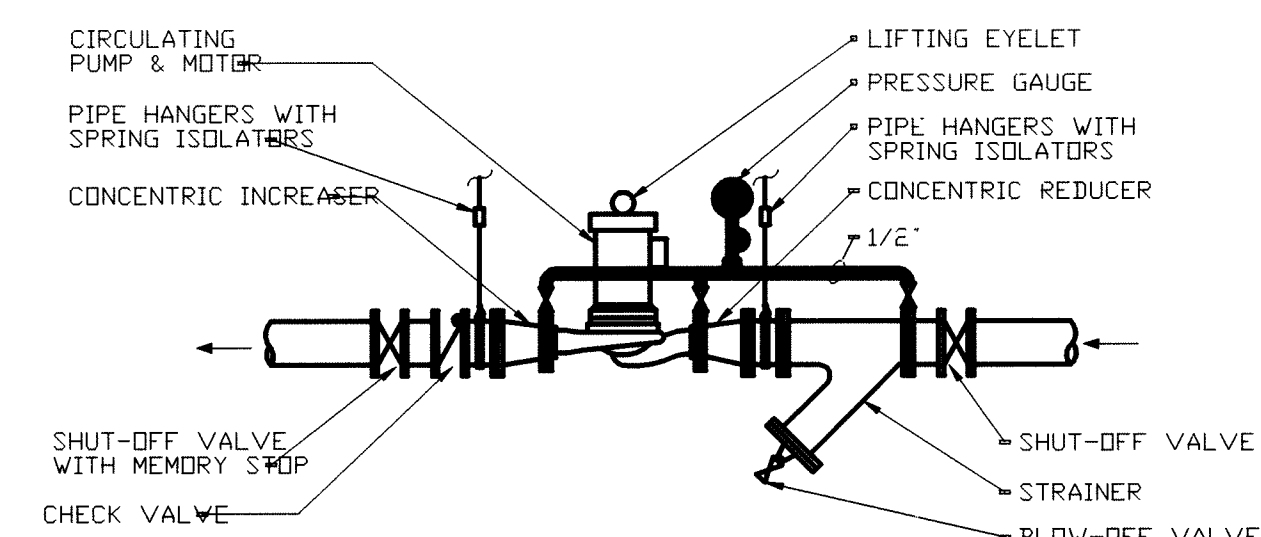
DUCTED CEILING GRILLE INSTALLATION DETAIL
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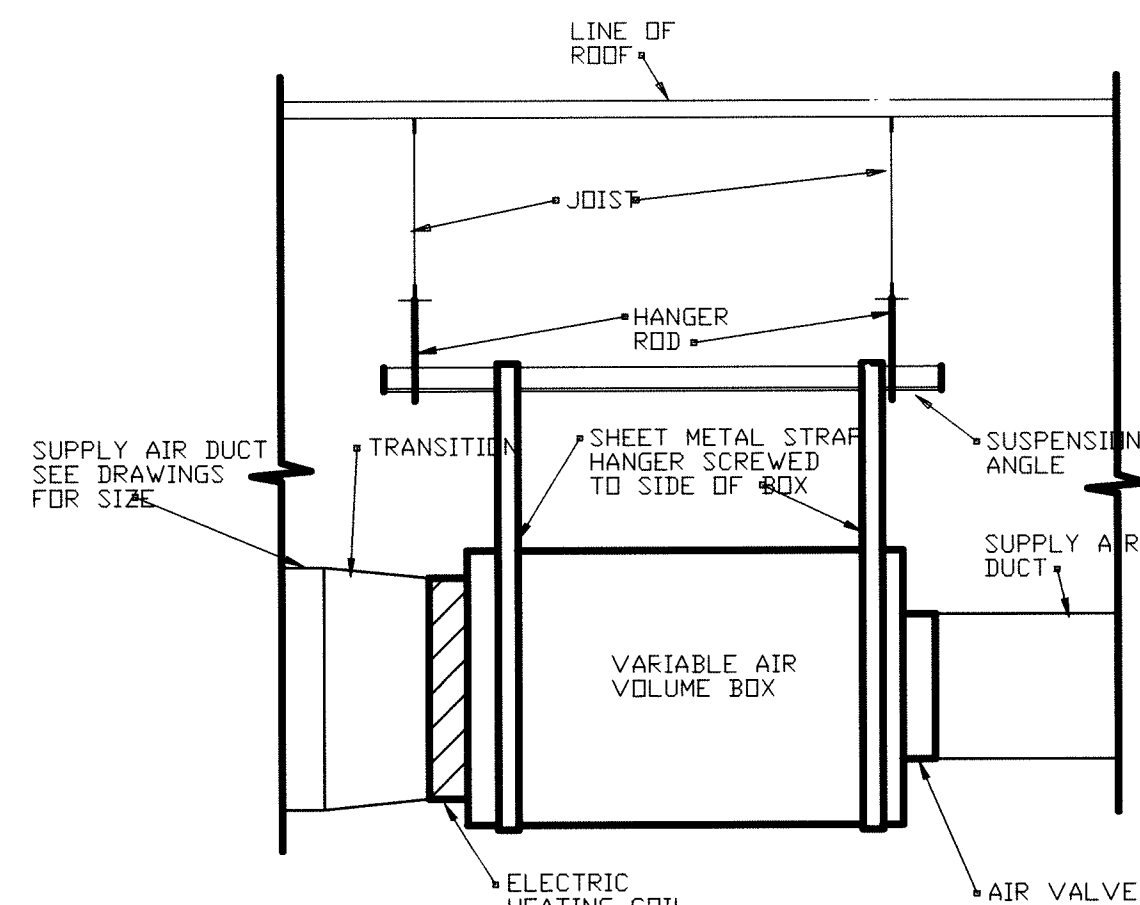
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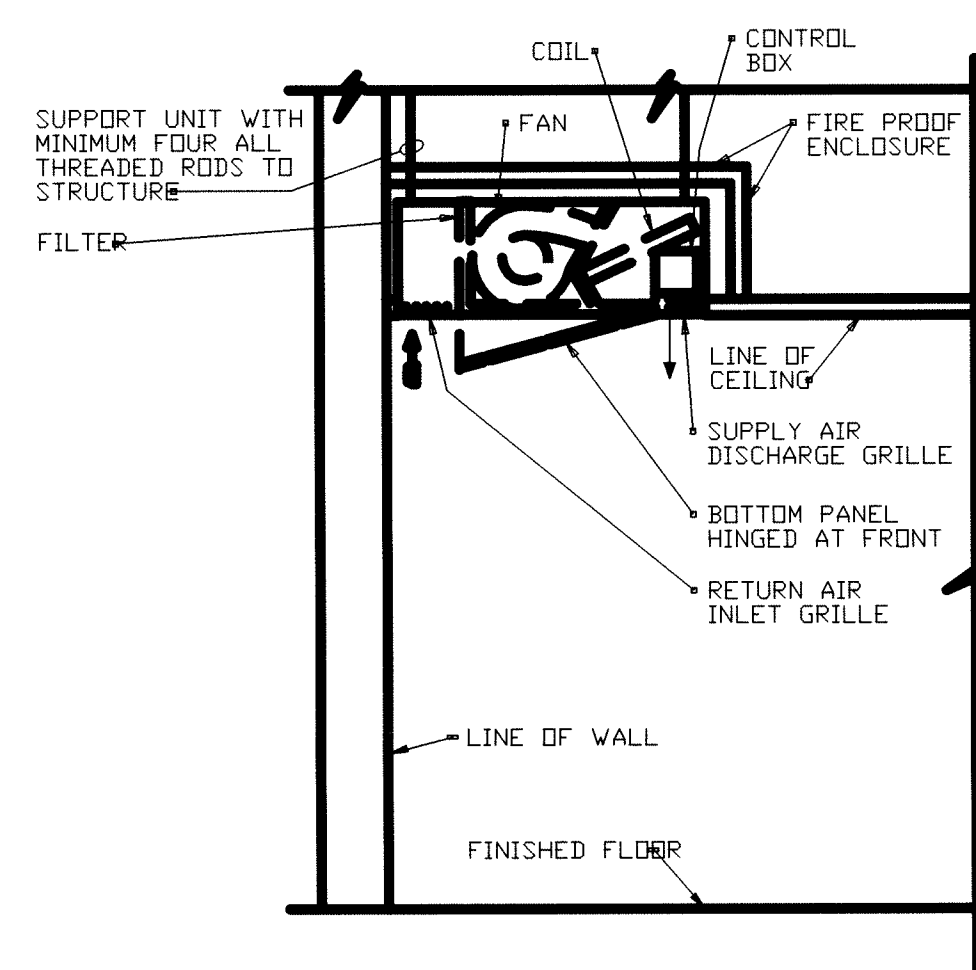
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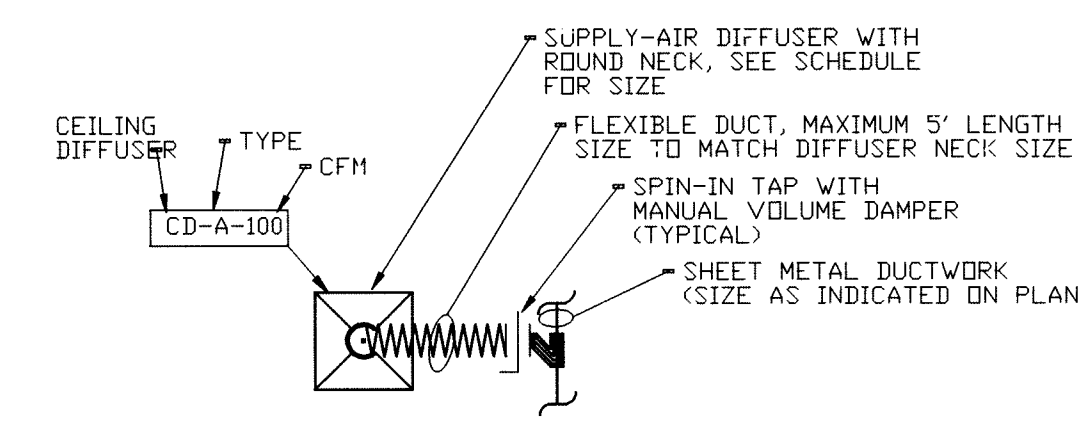
TYPICAL INLINE PUMP INSTALLATION DETAIL
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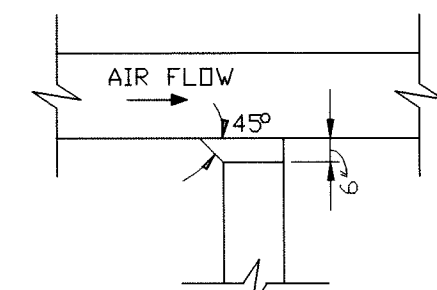
VARIABLE AIR VOLUME BOX MOUNTING DETAIL
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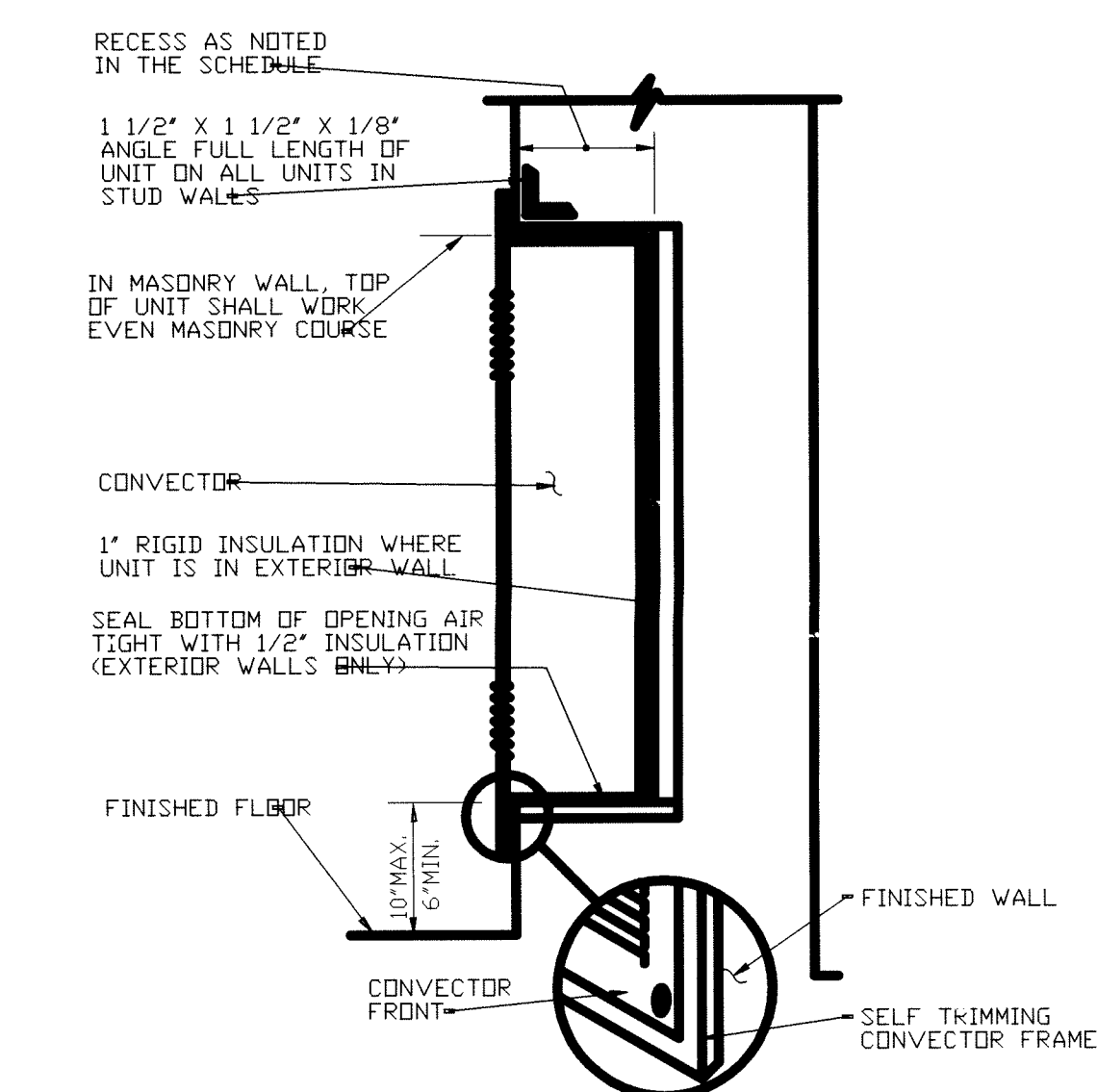
TYPICAL DETAIL OF CEILING MOUNTED CABINET HEATER
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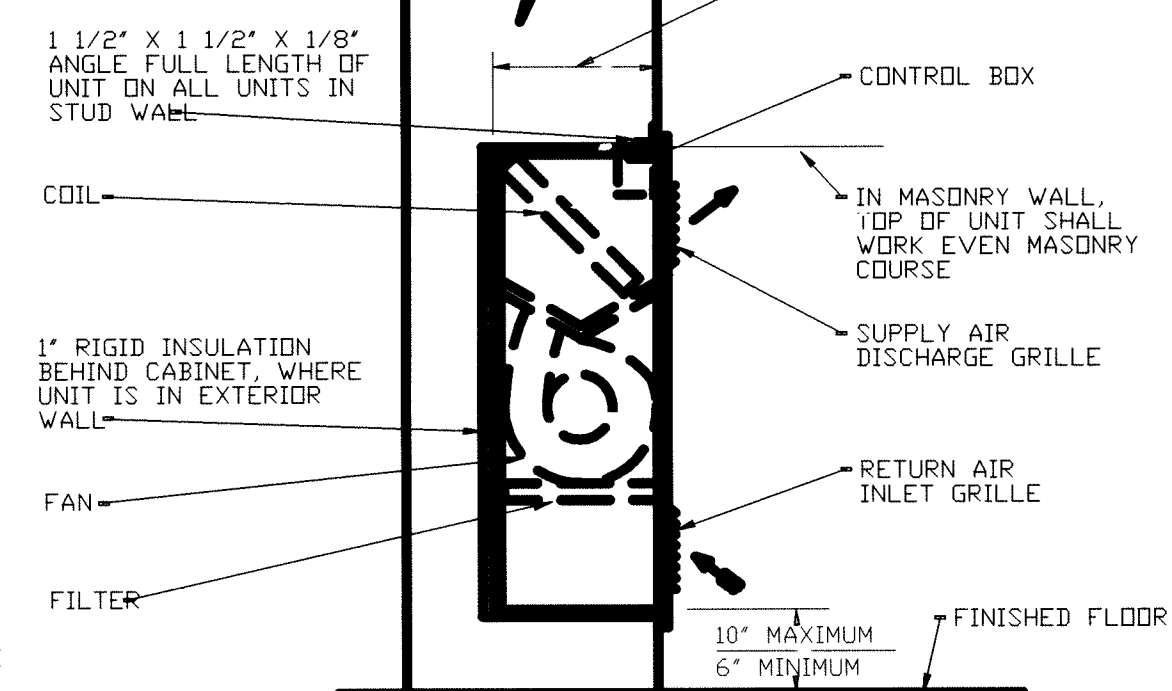
TYPICAL DIFFUSER CONNECTION
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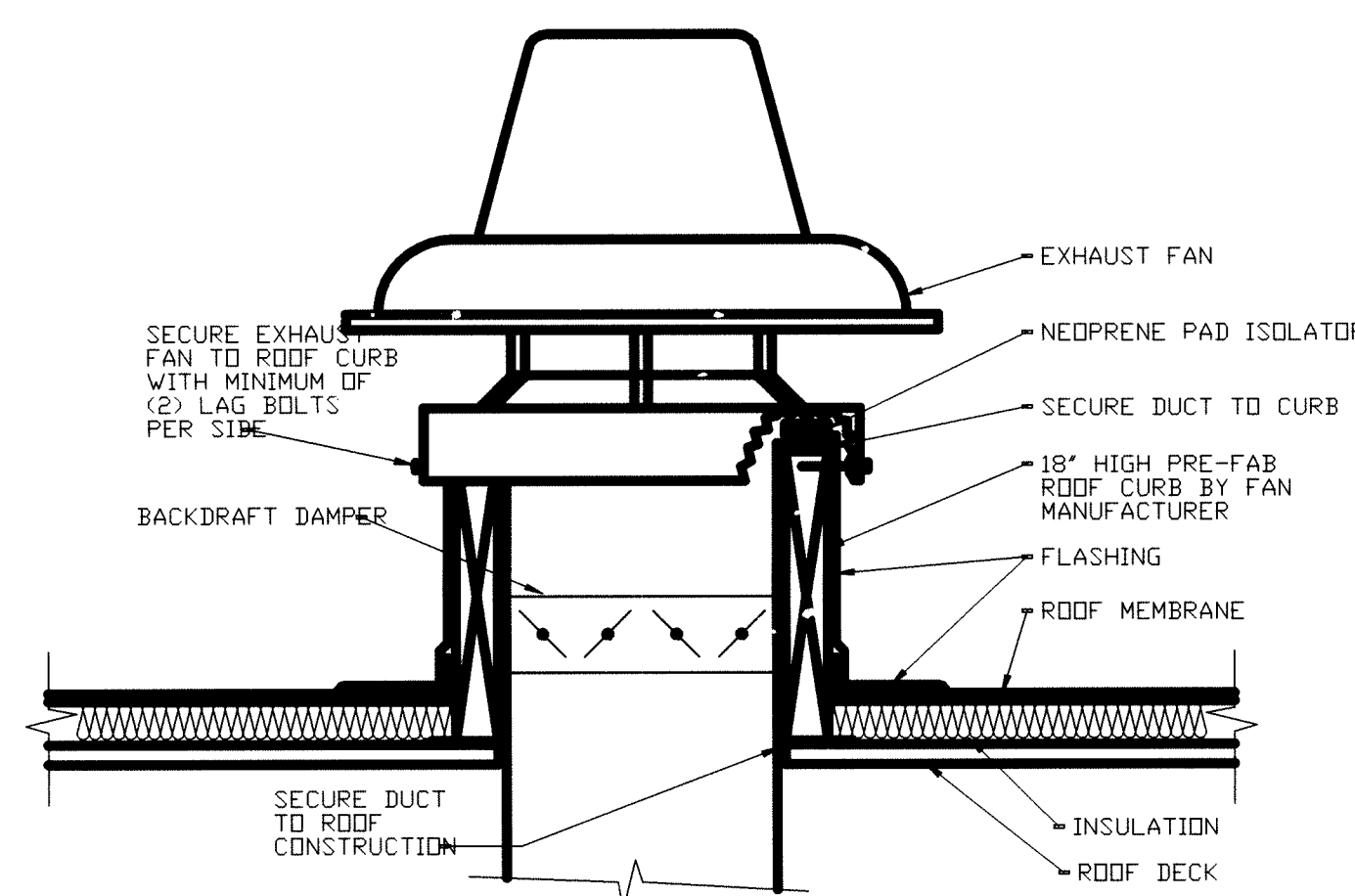
TYPICAL RECTANGULAR DUCT BRANCH TAKE-OFF
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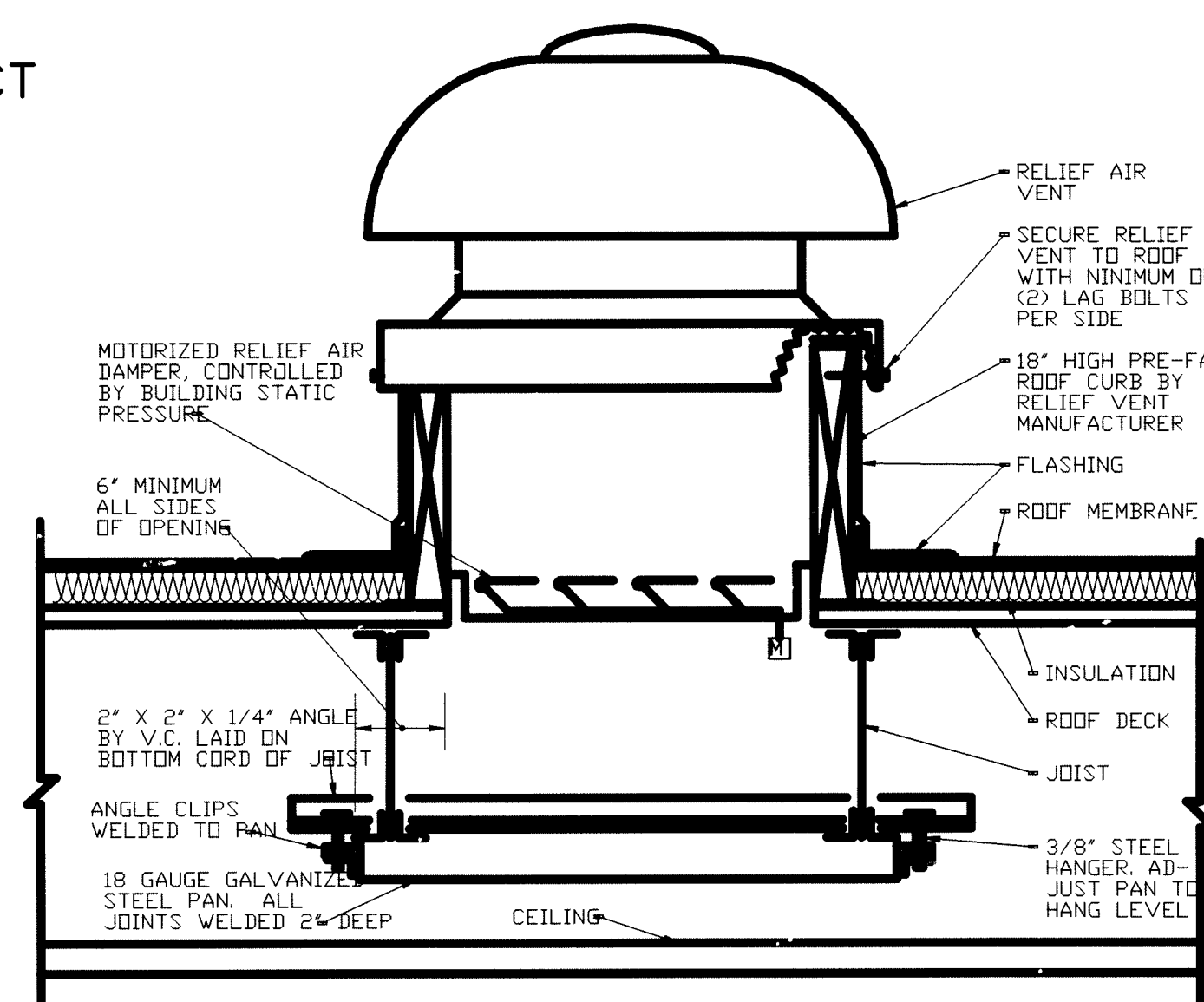
TYPICAL RECESSED CONVECTOR INSTALLATION DETAIL
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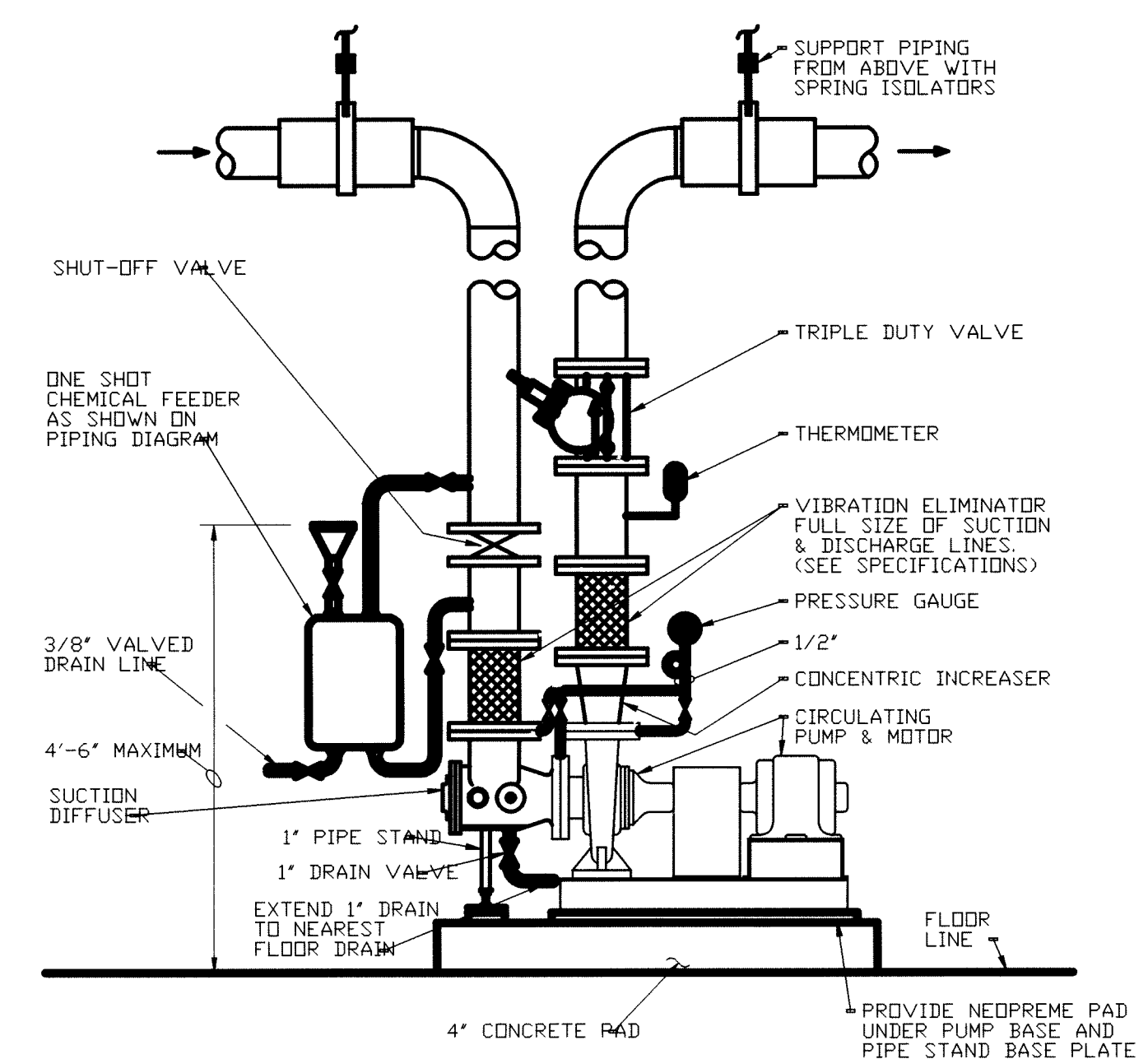
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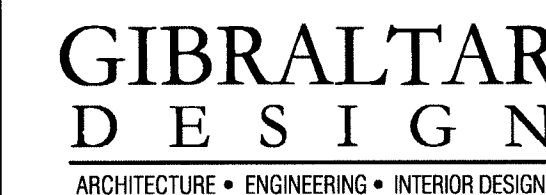
ROOF EXHAUST FAN MOUNTING DETAIL
NOT TO SCALE



TYPICAL RELIEF AIR VENT INSTALLATION DETAIL
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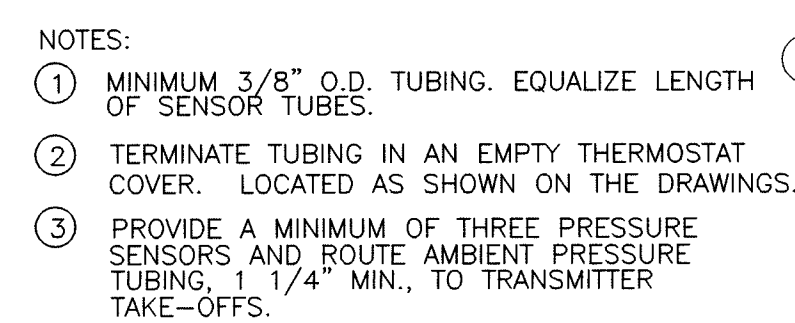


TYPICAL CIRCULATING PUMP INSTALLATION DETAIL
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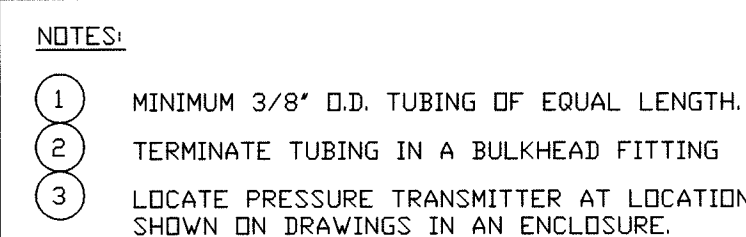


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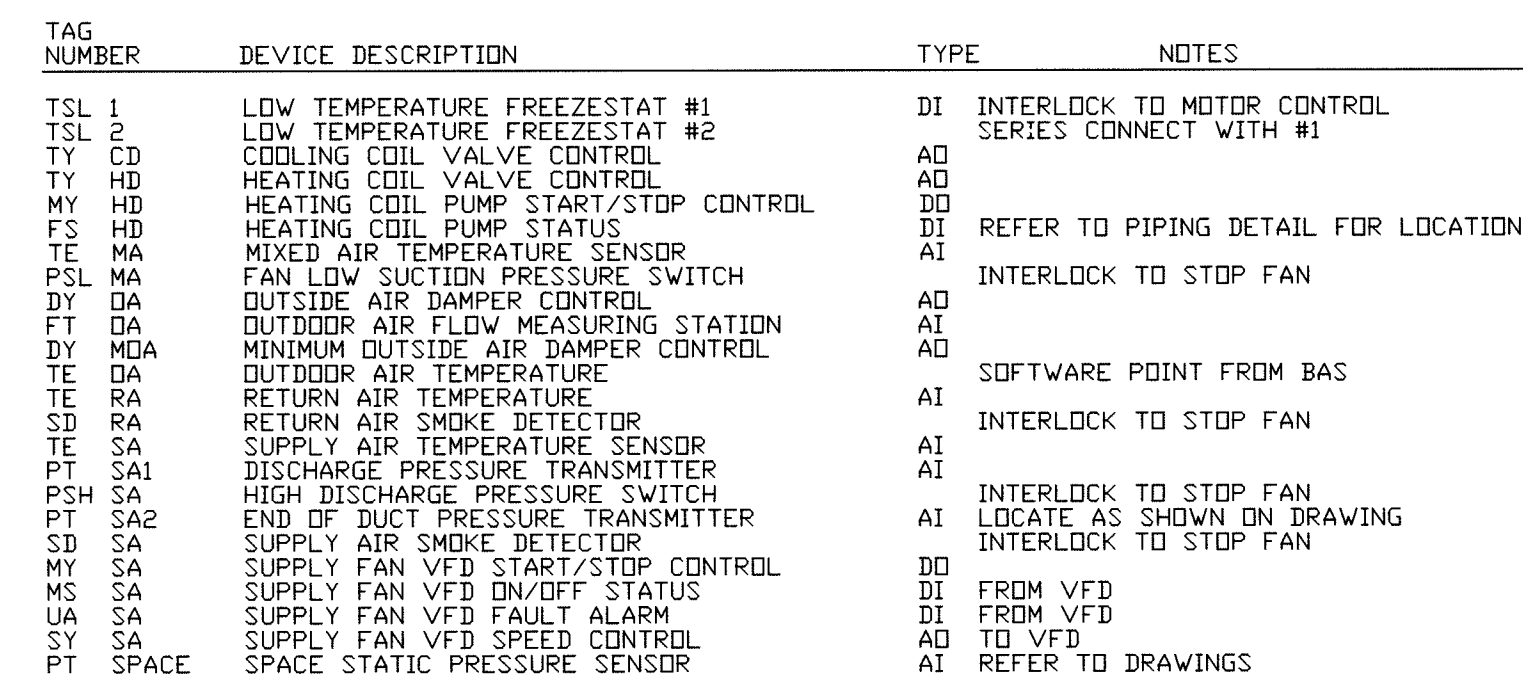
MARION COUNTY, INDIANA



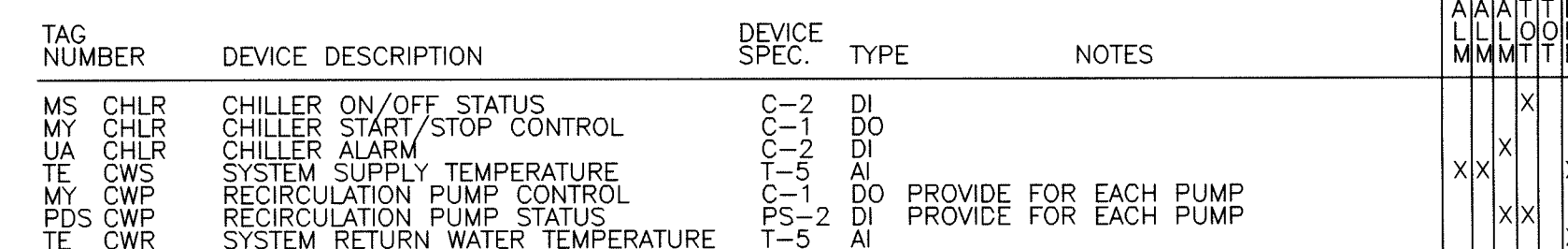
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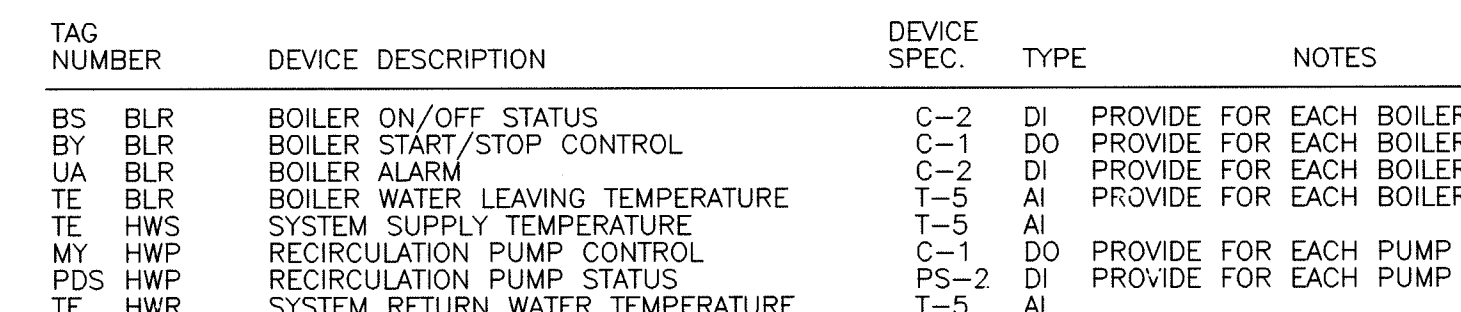
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M-801

M 901

M 901

SITE PLAN NOTES - GENERAL

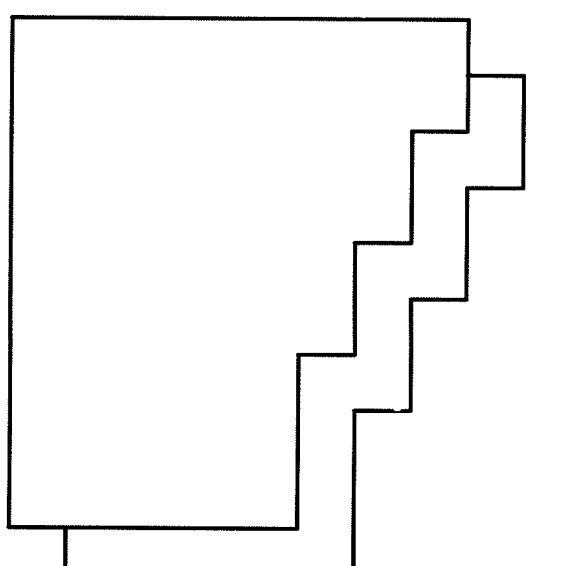
1. ALL WORK SHOWN ON THIS SHEET IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE NOTED.
2. RELOCATE OR REMOVE ANY OR ALL EXISTING SERVICES, POLES, ETC., AS MAY BE REQUIRED TO ACCOMMODATE NEW CONSTRUCTION, UNLESS OTHERWISE NOTED.
3. PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE LOCAL POWER COMPANY TO PROVIDE NEW ELECTRICAL SERVICE.
4. PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE LOCAL TELEPHONE COMPANY TO PROVIDE NEW TELEPHONE SERVICE.
5. PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE LOCAL CATV COMPANY TO PROVIDE NEW CATV SERVICE.

DEMOLITION PLAN NOTES: (THESE NOTES APPLY TO THIS SHEET ONLY)

1. REMOVE EXISTING SITE LIGHTING FIXTURES, POLES, POLE BASES AND WIRING BACK TO SOURCE. ABANDON ALL CONDUIT CONCEALED UNDERGROUND, IN FLOORS AND IN WALLS IN PLACE AND REMOVE ALL EXPOSED CONDUIT NOT BEING REUSED TO SERVE THE NEW LIGHTING FIXTURES.

PLAN NOTES: (THESE NOTES APPLY TO THIS SHEET ONLY)

1. EXISTING UTILITY POLE AND OVERHEAD PRIMARY ELECTRICAL SERVICE.
2. 4" CONDUIT FOR NEW INCOMING UNDERGROUND PRIMARY ELECTRICAL SERVICE.
3. FLUSH IN-GROUND PULL BOX.
4. NEW PAD MOUNTED TRANSFORMER.
5. NEW EMERGENCY GENERATOR.
6. NEW INCOMING UNDERGROUND SECONDARY ELECTRICAL SERVICE - SEE POWER DISTRIBUTION DIAGRAM ON SHEET E-701.
7. TRANSITION FROM PVC TO CONDUIT WITH A PVC TO CONDUIT ADAPTER BELOW GRADE, ROUTE THE CONDUIT AND WIRE UP THE OUTSIDE OF THE BUILDING, STUB INSIDE THE BUILDING AND THEN ROUTE THEM ABOVE THE CEILINGS TO THE NEW RELAY.



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PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

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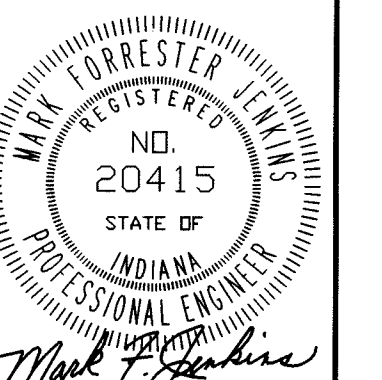
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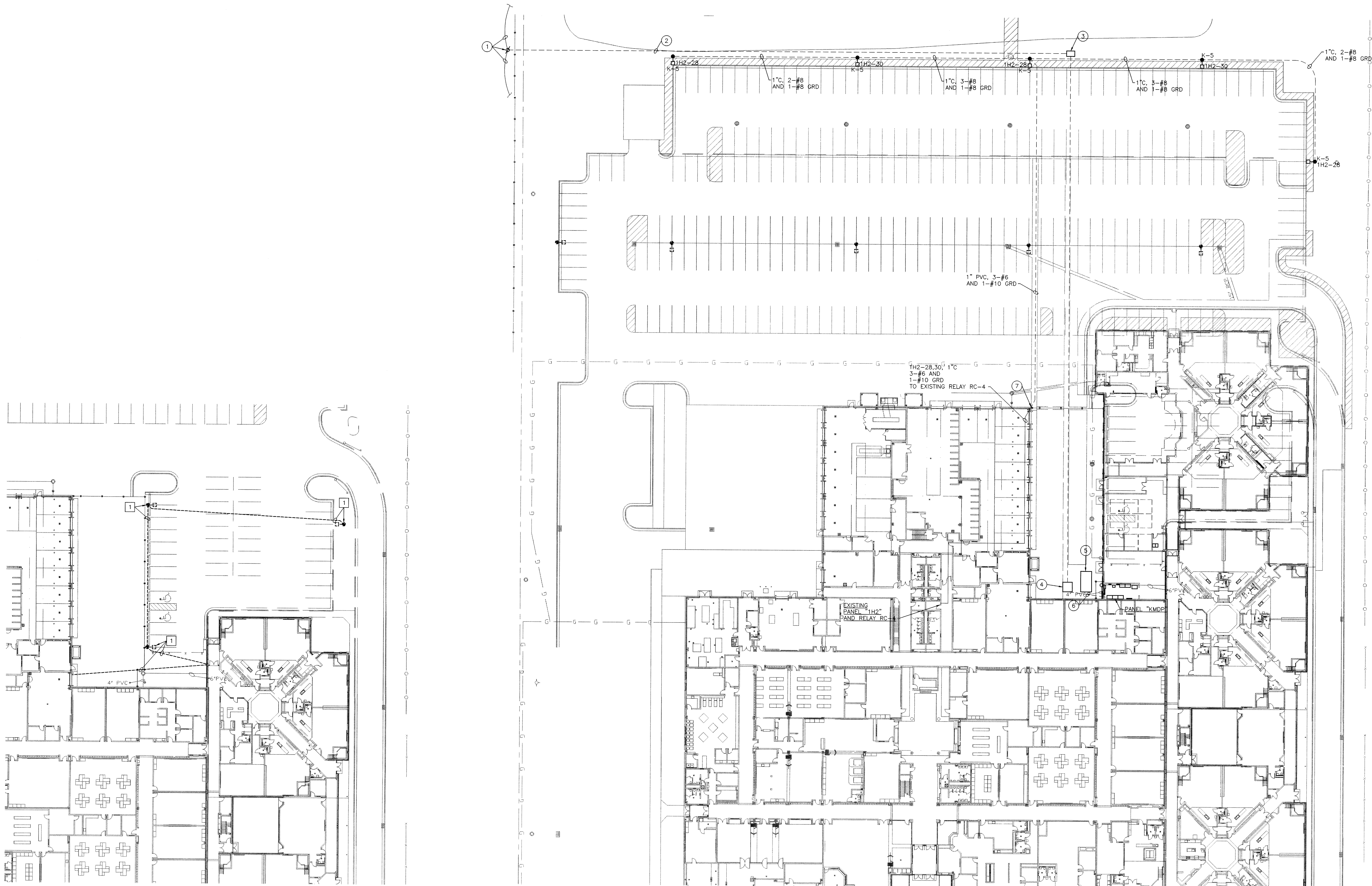
DRAWING
**ELECTRICAL
SITE PLAN**

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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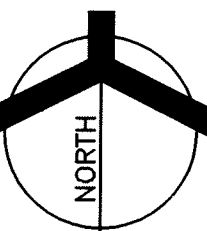
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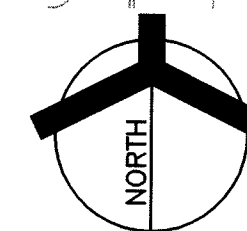
ELECTRICAL DEMOLITION SITE PLAN


SCALE: 1" = 30'-0"



ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"



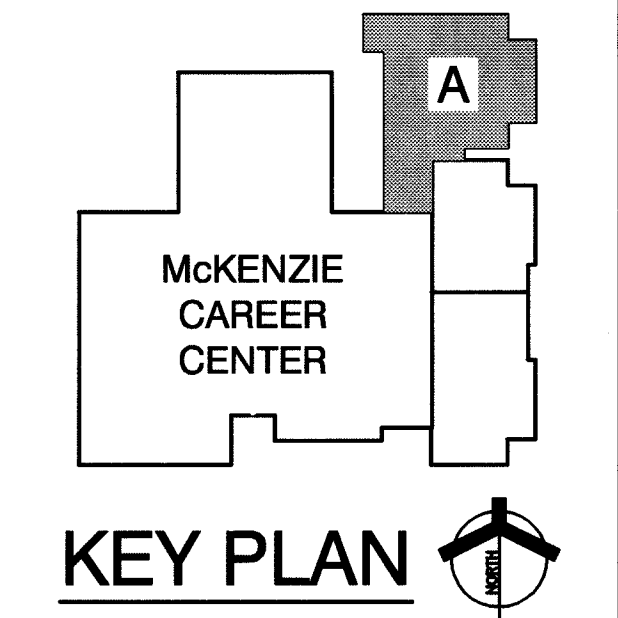


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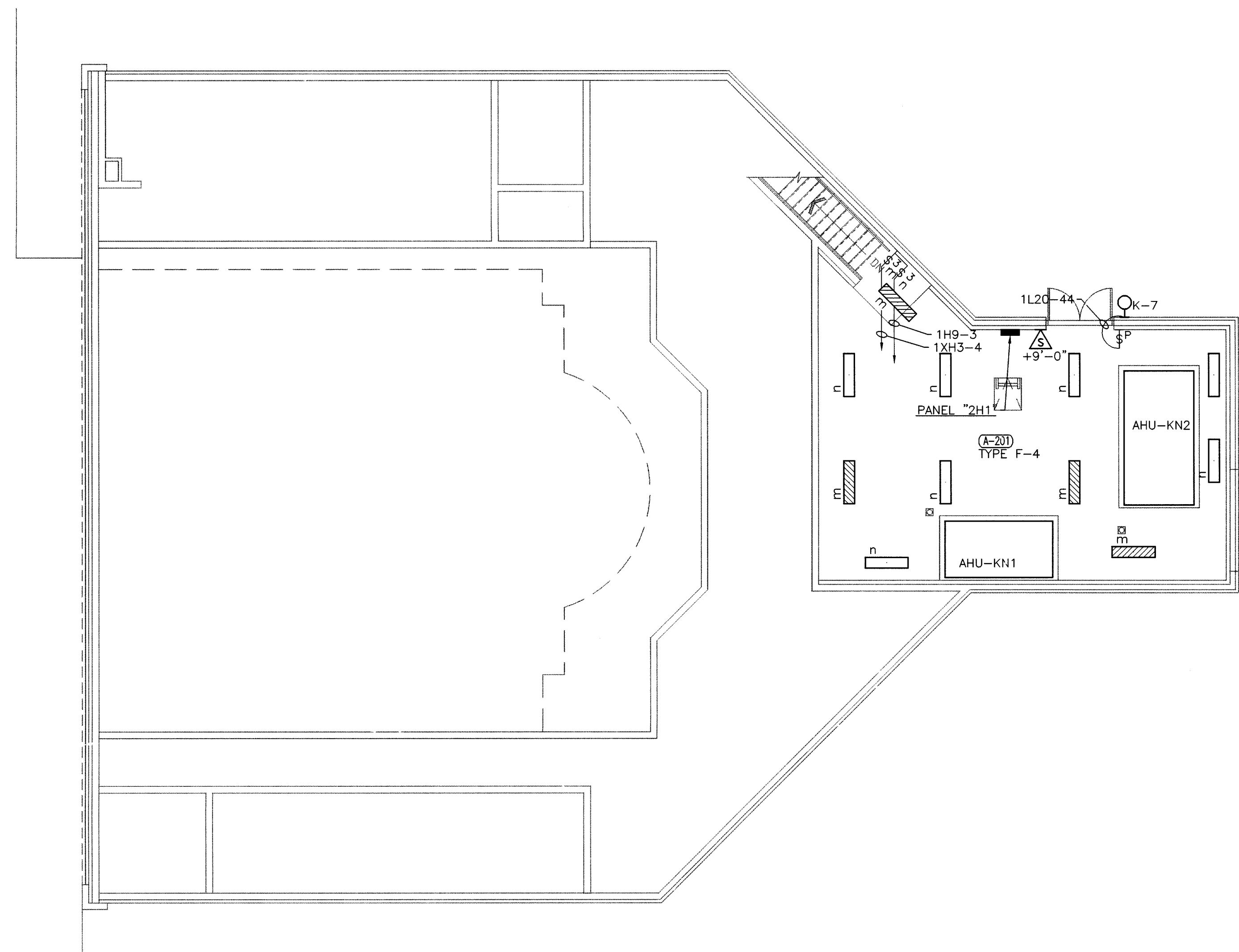
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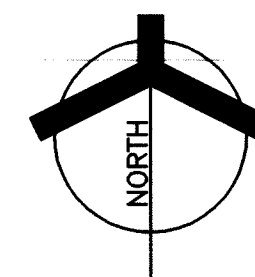
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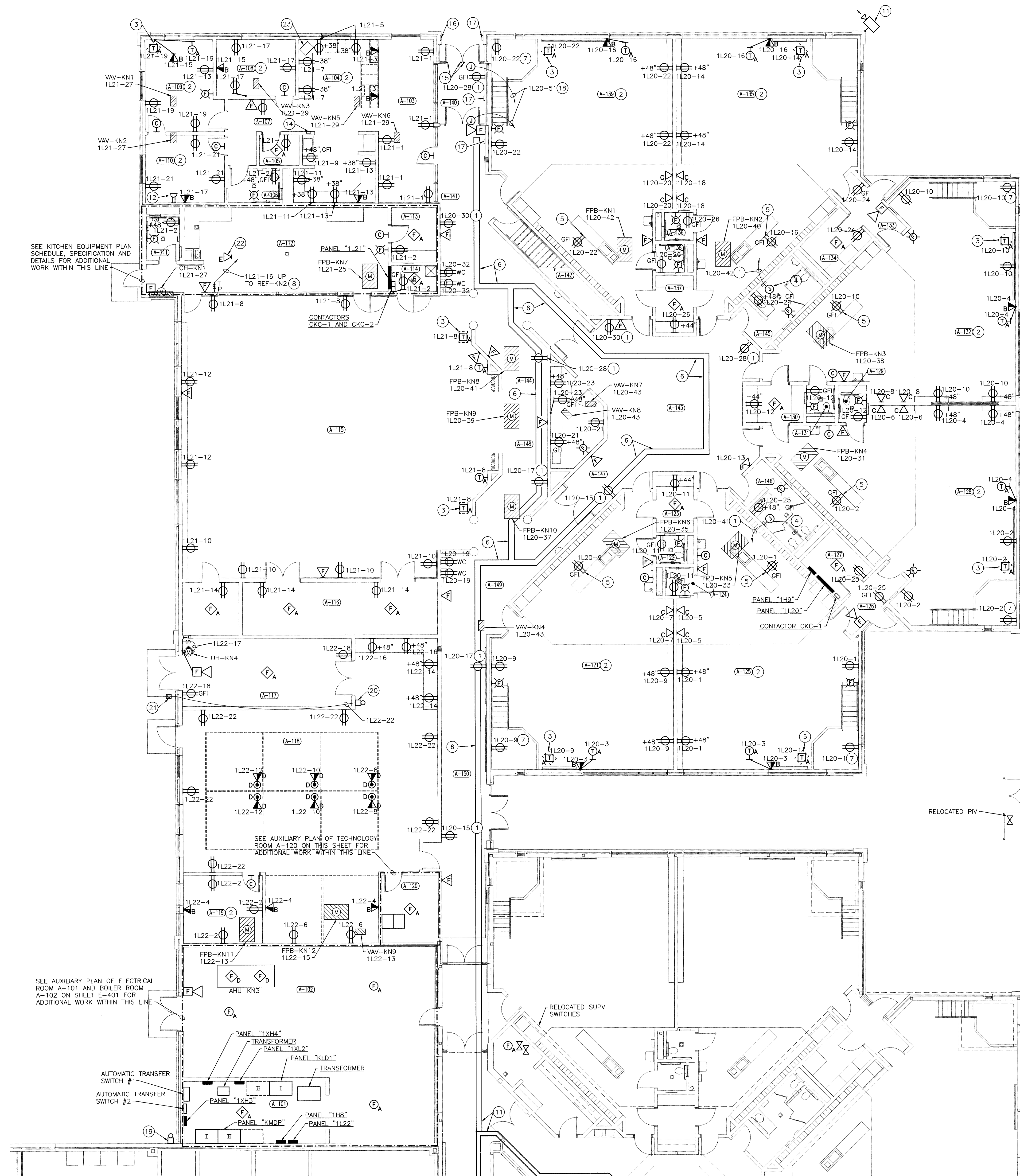
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SCALE: $1/8" = 1'-0"$



EL102

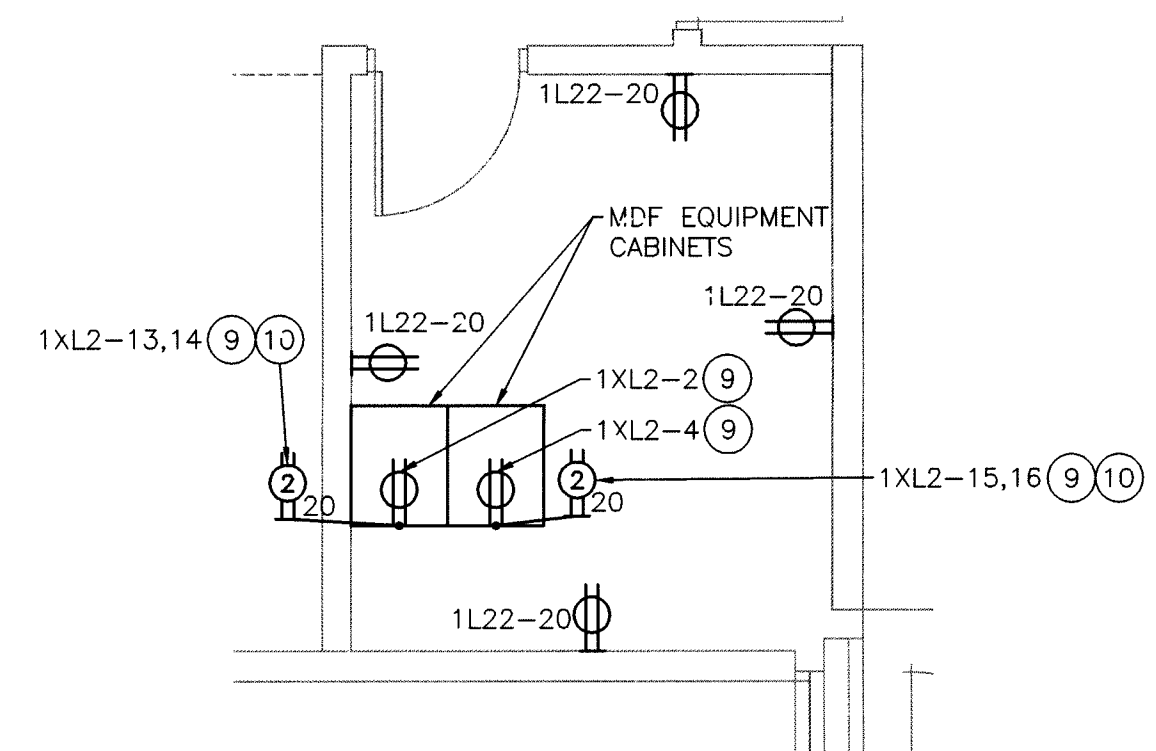


UNIT "A" ELECTRICAL FIRST FLOOR POWER PLAN

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

AUXILIARY PLAN OF DATA ROOM A-120

SCALE: 1/4" = 1'-0"

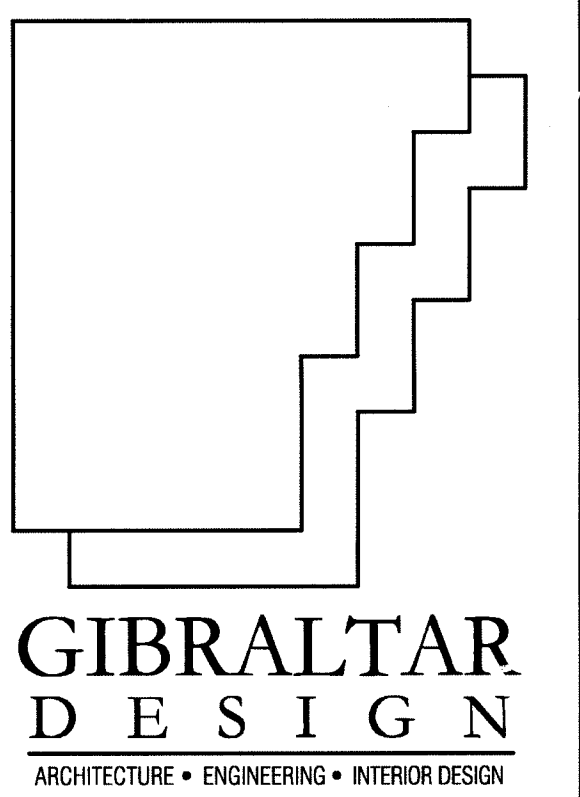


ROOM NAME SCHEDULE

NO	NAME
A-101	ELECTRICAL
A-102	MECHANICAL
A-103	WAITING
A-104	RECEPTION
A-105	STORAGE
A-106	TOILET
A-107	CORRIDOR
A-108	OFFICE
A-109	CONFERENCE
A-110	OFFICE
A-111	TOILET
A-112	SERVING
A-113	STORAGE
A-114	CUSTODIAN
A-115	FAT 'N' PLAY
A-116	CHAIR STORAGE
A-117	REC./STOR
A-118	TECHNOLOGY
A-119	OFFICE
A-120	DATA ROOM
A-121	KINDERGARTEN
A-122	TOILET
A-123	STORAGE
A-124	TOILET
A-125	KINDERGARTEN
A-126	VESTIBULE
A-127	ELECTRICAL
A-128	KINDERGARTEN
A-129	TOILET
A-130	STORAGE
A-131	TOILET
A-132	KINDERGARTEN
A-133	VESTIBULE
A-134	STORAGE
A-135	KINDERGARTEN
A-136	TOILET
A-137	STORAGE
A-138	TOILET
A-139	KINDERGARTEN
A-140	VESTIBULE
A-141	CORRIDOR
A-142	STAIR
A-143	ACTIVITIES
A-144	WORKROOM
A-145	MEN'S
A-146	WOMEN'S
A-147	PASSAGE
A-148	CORRIDOR
A-149	CORRIDOR
A-150	CORRIDOR
A-151	STORAGE

PLAN NOTES: (THESE NOTES APPLY TO THIS SHEET ONLY)

- 3/4" C, 2-#10 AND 1-#10 GRD.
- THE NEUTRAL WIRE FOR ALL RECEPTACLES IN THIS ROOM INCLUDING THE HOMERUN TO THE APPROPRIATE PANEL SHALL BE #10 AWG.
- CEILING MOUNTED TELEVISION MONITOR AND VCR MOUNT FOR 32" TELEVISION MONITOR. SEE SHEET E-602 FOR MOUNTING HEIGHT. TELEVISION MONITOR AND VCR FURNISHED AND INSTALLED BY THE OWNER.
- ELECTRIC HAND DRYER.
- MOUNT RECEPTACLE IN TOE SPACE.
- 9" WIDE x 3" DEEP CABLE TRAY.
- PROVIDE CHILDPROOF RECEPTACLE IN LOFT. (HUBBELL #HBL8300-SGGYA).
- SEE AUTOMATIC EXHAUST FAN SCHEDULE ON SHEET E-601.
- INSTALL RECEPTACLE IN LOWER REAR CORNER OF EQUIPMENT CABINET.
- PROVIDE LS-20 TYPE LOCKING RECEPTACLE.
- EXTEND NEW CABLE TRAY TO EXISTING CABLE TRAY.
- SCHOOL INTERCOM SYSTEM PAGING MICROPHONE INPUT.
- RELOCATED CCTV SECURITY CAMERA AND MOUNT AT +14'-0". PROVIDE ONE SURFACE MOUNTED WEATHERPROOF OUTLET BOX ON THE EXTERIOR WALL ADJACENT TO CAMERA LOCATION WITH 3/4 INCH CONDUIT STUBBED FROM OUTLET BOX TO SPACE ABOVE CEILING ON THE INTERIOR SIDE OF THE WALL FOR CAMERA CABLING. PROVIDE ONE JUNCTION BOX WITH CIRCUIT 1L20-49 ON THE INTERIOR SIDE OF THE WALL AT CAMERA LOCATION FOR CAMERA POWER SUPPLY. AIM CAMERA AS DIRECTED BY THE OWNER.
- FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL.
- PROVIDE A 3/4 INCH CONDUIT STUB FOR EACH DOOR LEAF FROM SPACE AT TOP OF DOOR FRAME TO CEILING SPACE ABOVE IN ADJACENT VESTIBULE FOR SECURITY SYSTEM DOOR WIRING.
- INSTALL RELOCATED CARD ACCESS SYSTEM KEYPAD/CARD READER STATION AT THIS LOCATION. PROVIDE TWO-GANG OUTLET BOX AT +48 INCHES. PROVIDE 3/4 INCH CONDUIT FROM OUTLET BOX TO CEILING SPACE IN ADJACENT VESTIBULE FOR CARD READER WIRING.
- PUSH PAD FOR ELECTRIC DOOR OPENER, PROVIDED BY DOOR OPENER MANUFACTURER, AND INSTALLED BY DIVISION 16. INSTALL PUSH PAD AT +40 INCHES. DIVISION 16 SHALL PROVIDE ALL CONTROL WIRING.
- CONNECT TO ELECTRIC DOOR OPENER. DIVISION 16 SHALL PROVIDE ALL CONTROL WIRING.
- RELOCATED SPRINKLER ALARM BELL. INSTALL AT SAME HEIGHT AS EXISTING LOCATION. EXTEND ALL EXISTING WIRING TO NEW LOCATION.
- EDWARDS SIGNAL #340A-NS VIBRATING BUZZER. 120 VOLT OPERATION.
- EDWARDS SIGNAL #852 WEATHERPROOF PUSHBUTTON. STAINLESS STEEL CONSTRUCTION. 120 VOLT RATING.
- INSTALL DATA OUTLET IN OUTLET BOX AT FLOOR FOR CASHIER'S STATION.
- SCHOOL INTERCOM SYSTEM SOURCE EQUIPMENT CABINET.

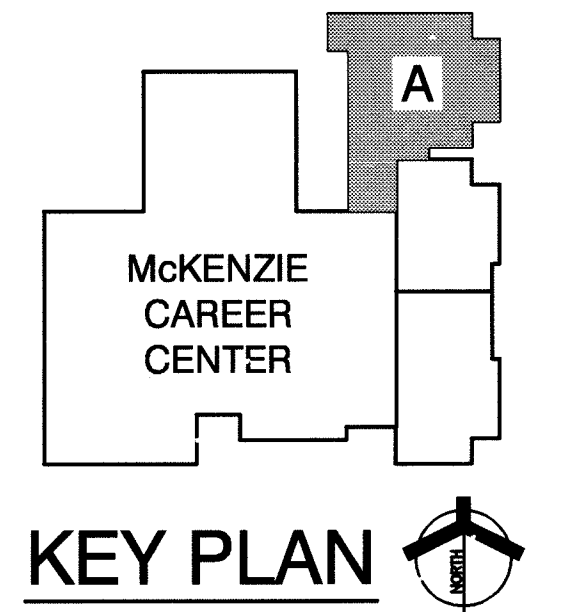


PROJECT

**LAWRENCE
CENTRALIZED
KINDERGARTEN**
NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



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DRAWING
UNIT "A"
ELECTRICAL FIRST
FLOOR POWER PLAN

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

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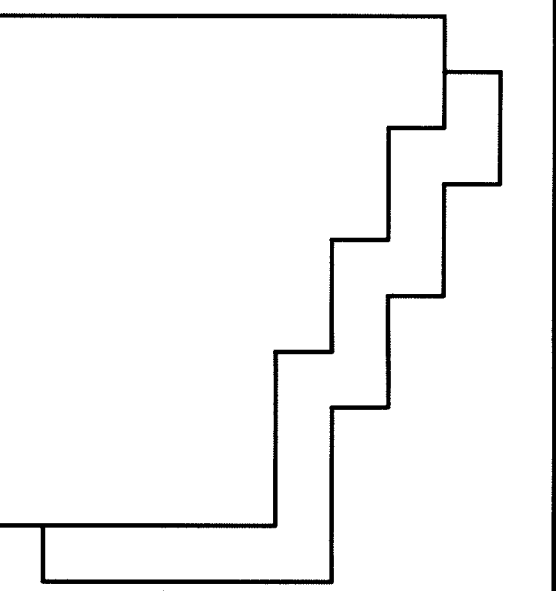
SHEET

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EP101

- PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)
- 1 VARIABLE FREQUENCY DRIVE CONTROLLER BY DIVISION 15.
- 2 PROVIDE THE APPROPRIATE STRUCTURAL STEEL CHANNEL SUPPORTS FOR MOTOR STARTERS.

ROOM NAME SCHEDULE	
NO	NAME
A-201	MECHANICAL



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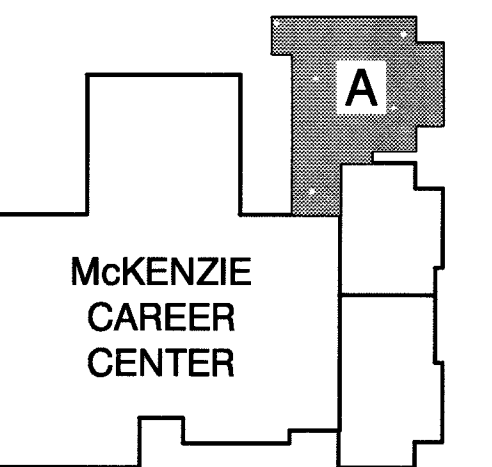
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**LAWRENCE
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NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



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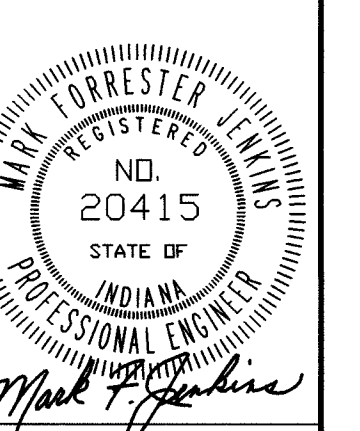
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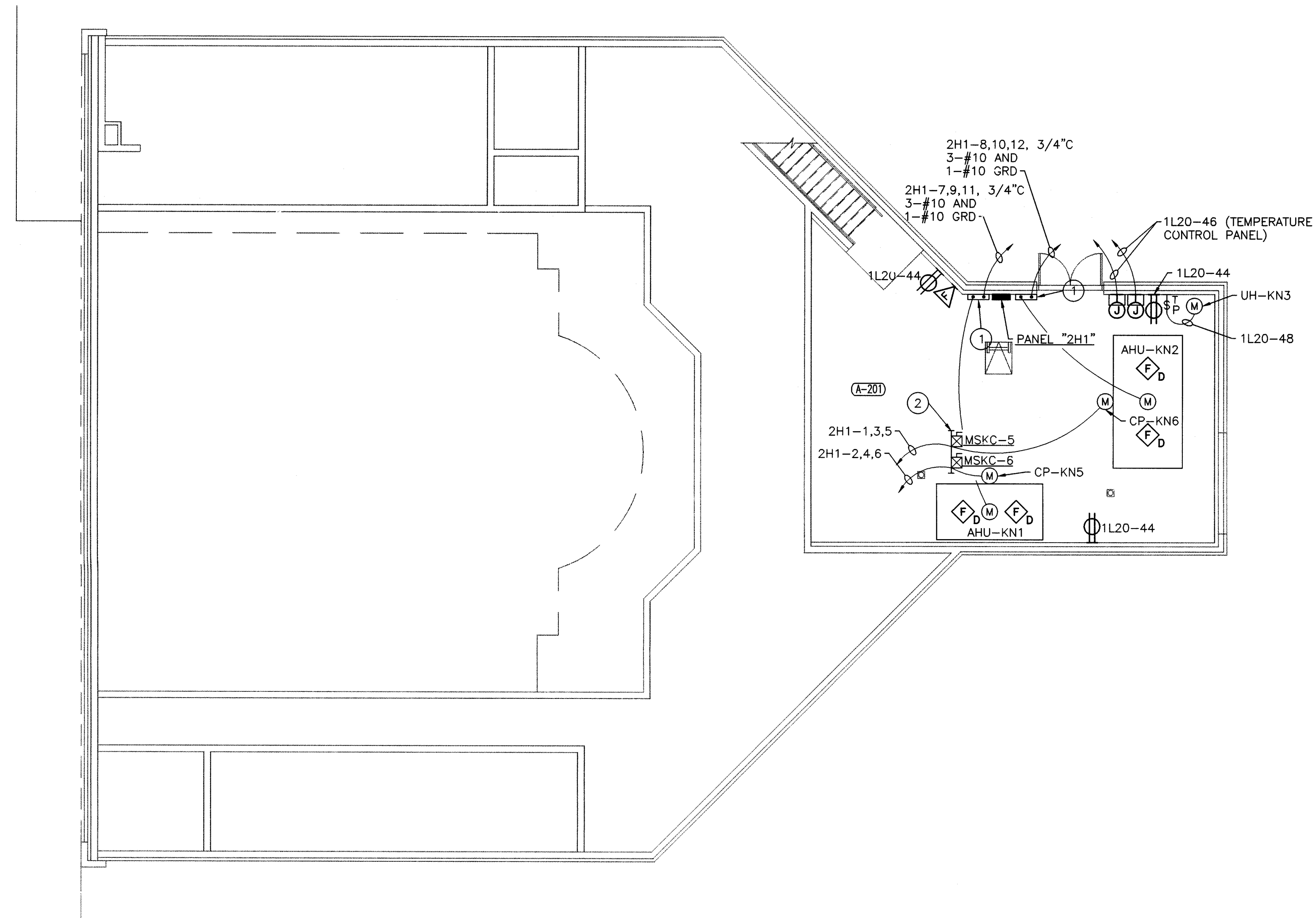
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DRAWING
UNIT "A"
**ELECTRICAL SECOND
FLOOR POWER PLAN**

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH CAMPUS

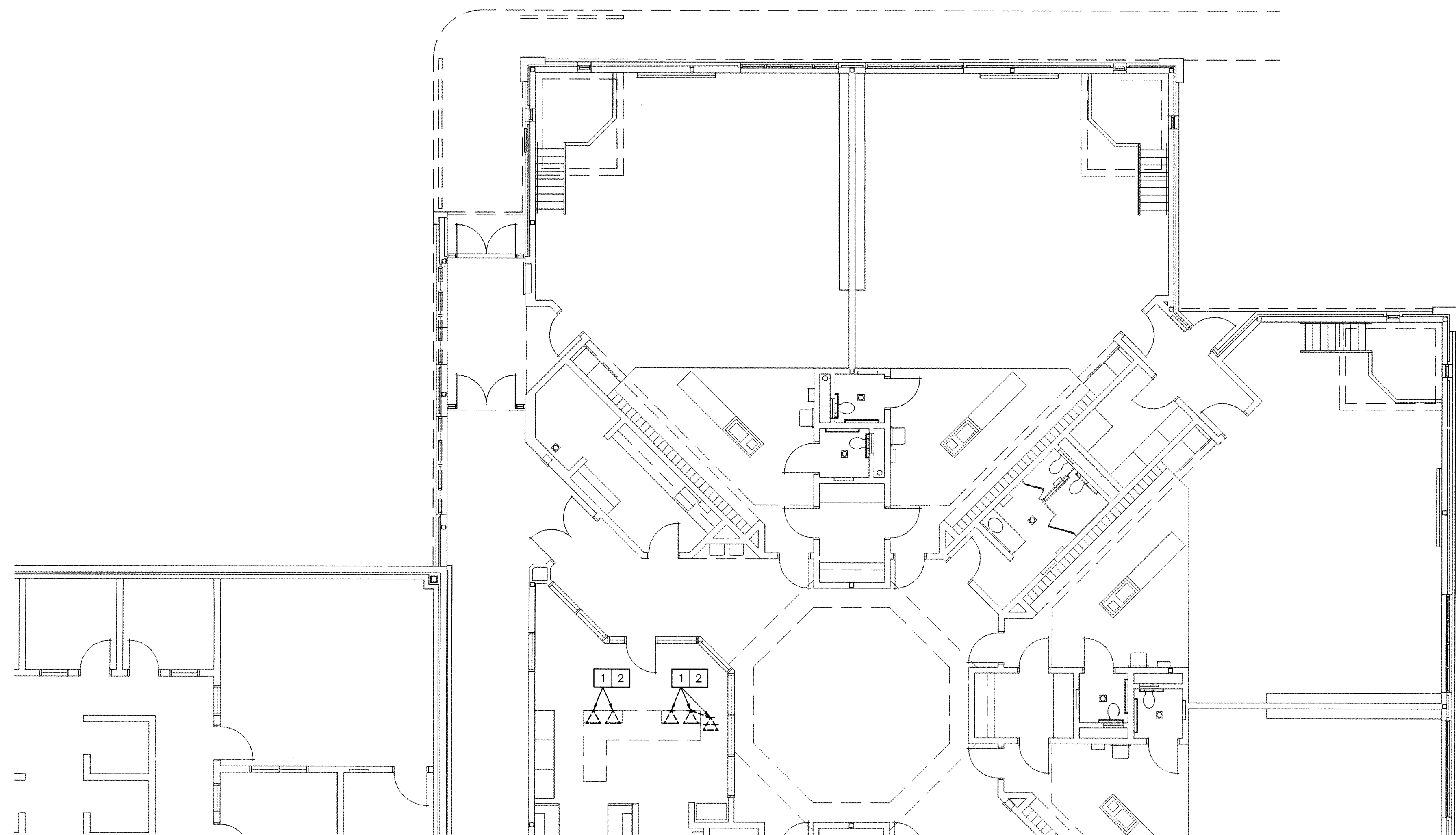
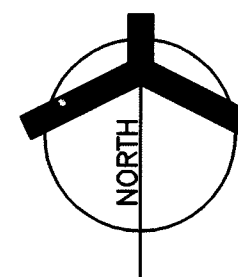
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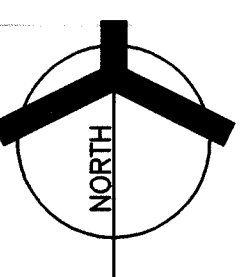
UNIT "A" ELECTRICAL SECOND FLOOR POWER PLAN

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



UNIT "A" ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN

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



MOTOR STARTER SCHEDULE						
MARK	ITEM	NEMA SIZE	HP	ROOM NO.	CONTROL	SEE NOTES
					ENCL. REMOTE	
MSKC-1	CHILLED WATER CIRCULATING PUMP KN1	0	5	A-102	SA -	1,2,3,5,7,8,9
MSKC-2	CHILLED WATER CIRCULATING PUMP KN2	0	5	A-102	SA -	1,2,3,5,7,8,9
MSKC-3	HEATING SYSTEM CIRCULATING PUMP KN3	0	5	A-102	SA -	1,2,3,5,7,8,9
MSKC-4	HEATING SYSTEM CIRCULATING PUMP KN4	0	5	A-102	SA -	1,2,3,5,7,8,9
MSKC-5	HEATING COIL CIRCULATING PUMP KN5	0	3/4	A-201	SA -	1,2,3,5,7,8
MSKC-6	HEATING COIL CIRCULATING PUMP KN6	0	3/4	A-201	SA -	1,2,3,5,7,8
MSKC-7	HEATING COIL CIRCULATING PUMP KN7	0	3/4	A-102	SA -	1,2,3,5,7,8
NOTES: 1. MOTOR STARTERS SHALL BE 3-POLE COMBINATION TYPE WITH NEMA 1 ENCLOSURE. 2. MOTOR STARTERS SHALL HAVE 480/120 VOLT CONTROL CIRCUIT TRANSFORMER WITH 10,000 AMP INTERRUPTING CAPACITY. 3. MOTOR STARTERS SHALL HAVE 120 VOLT COIL AND 600 VOLT CONTACTS. 4. 120 VOLT MOMENTARY CONTACT PUSH BUTTON: P=ON-OFF; T=TEST BUTTON; T2=HI-LO TEST PUSH BUTTON; P2=HI-LO-OFF. 5. 120 VOLT MAINTAINED CONTACT SELECTOR SWITCH: S=ON-OFF; S2=HI-LOW; S2=HI-LO-OFF; S=HAND-OFF-AUTOMATIC. 6. PILOT LIGHTS SHALL BE FURNISHED WITH ALL REMOTE CONTROL UNITS. 7. MOTOR STARTERS SHALL BE SINGLE SPEED. 8. MOTOR STARTER SHALL HAVE ONE NORMALLY OPEN CONTACT. 9. PROVIDE WITH ENERGY SAVING MOTOR CONTROLLER INSTALLED IN SERIES WITH MOTOR STARTER.						

RELAY SCHEDULE					
MARK & TYPE	ITEM	CONTROLLED CIRCUIT(S)	COIL CKT.	ROOM NO.	SEE NOTES
RKC-1 RSCD #917220310	BUILDING SECURITY LIGHTS	1H9-20		A-101	1,2,4,6,8,10,11 12,13,14
NOTES: 1. FURNISH NEMA 1 ENCLOSURE WITH HINGED COVER UNLESS OTHERWISE NOTED. 2. ELECTRICALLY HELD. 3. MECHANICALLY HELD. 4. CONTACTS - NORMALLY OPEN. 5. CONTACTS - NORMALLY CLOSED. 6. PROVIDE HAND-OFF-AUTOMATIC SELECTOR SWITCH IN RELAY ENCLOSURES WITH LOOP AND BRIDLE STRIPS FROM MAIN COMPARTMENT TO HINGED COVER FOR SELECTOR SWITCHES. 7. PROVIDE ON-OFF SELECTOR SWITCH IN RELAY ENCLOSURE WITH LOOP AND BRIDLE STRAP FROM MAIN COMPARTMENT TO HINGED COVER FOR SELECTOR SWITCHES. 8. 120 VOLT COIL. 9. 277 VOLT COIL. 10. PHOTOELECTRIC/MECLOCK CONTROLLED. 11. FURNISH FUSE PROTECTION FOR COIL CIRCUIT. 12. ACCESSORY 47 TWO WIRE CONTROLS. 13. ALL RELAYS AND SELECTOR SWITCHES SHALL BE PREWIRED BY MANUFACTURER.					

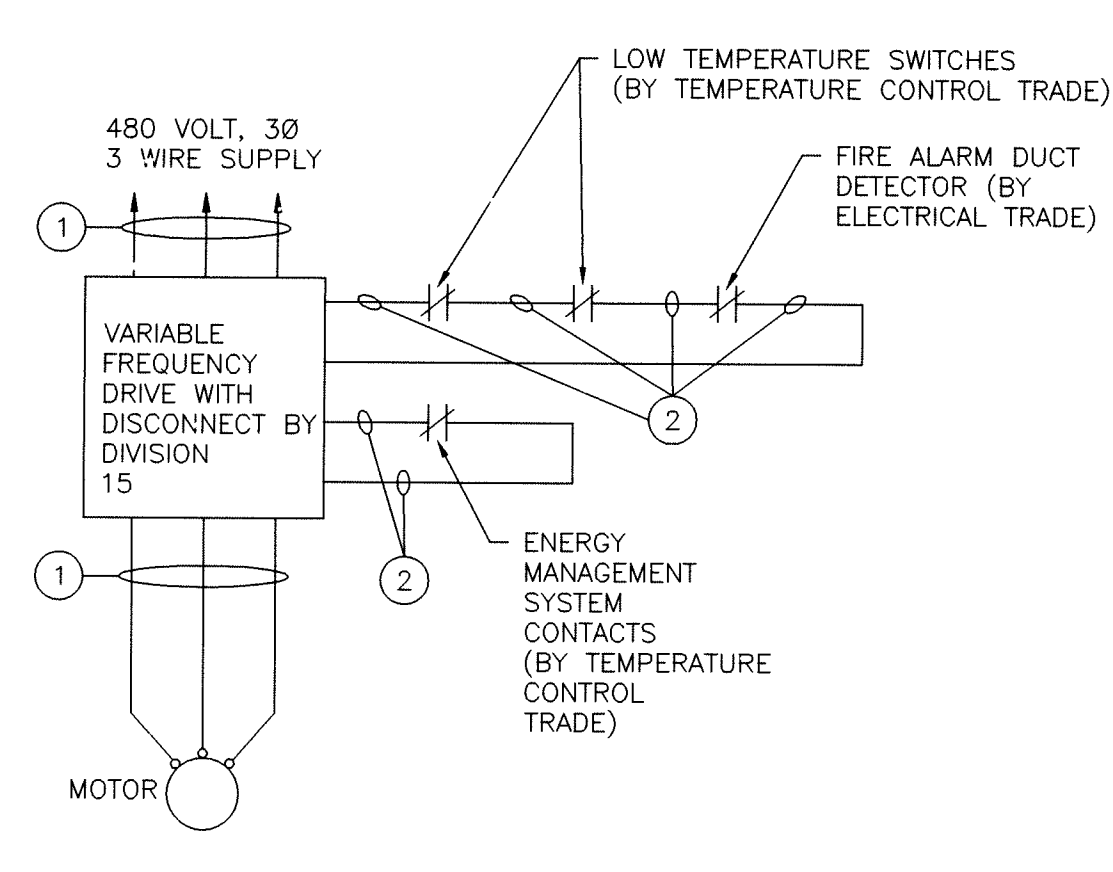
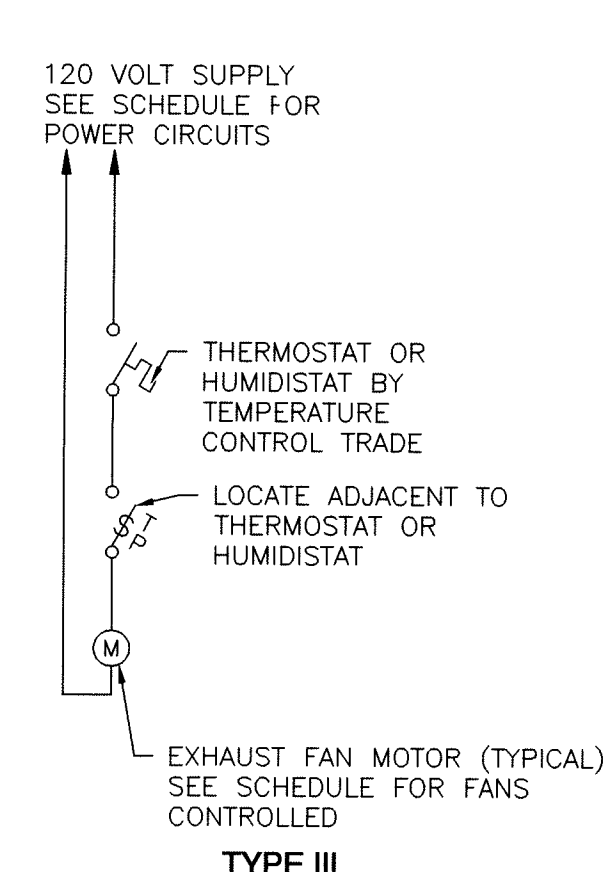
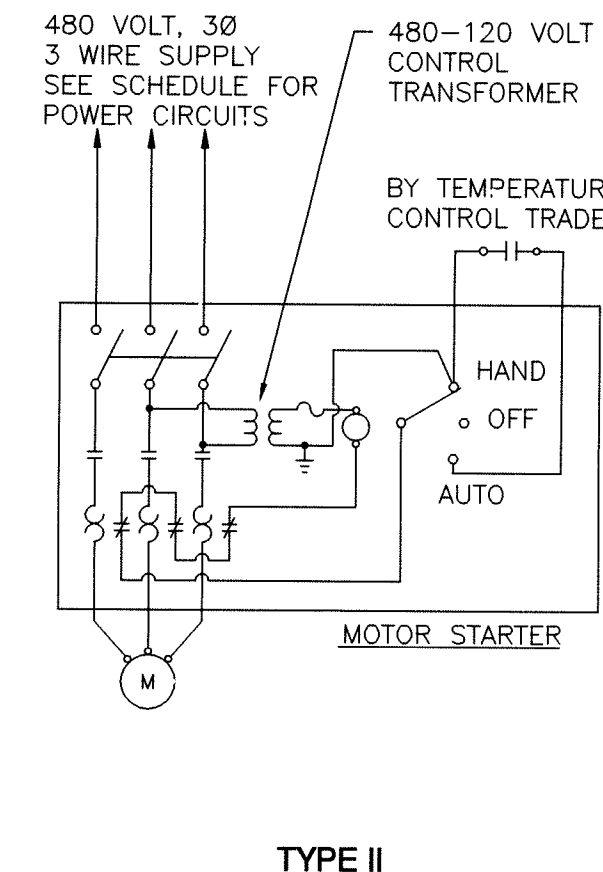
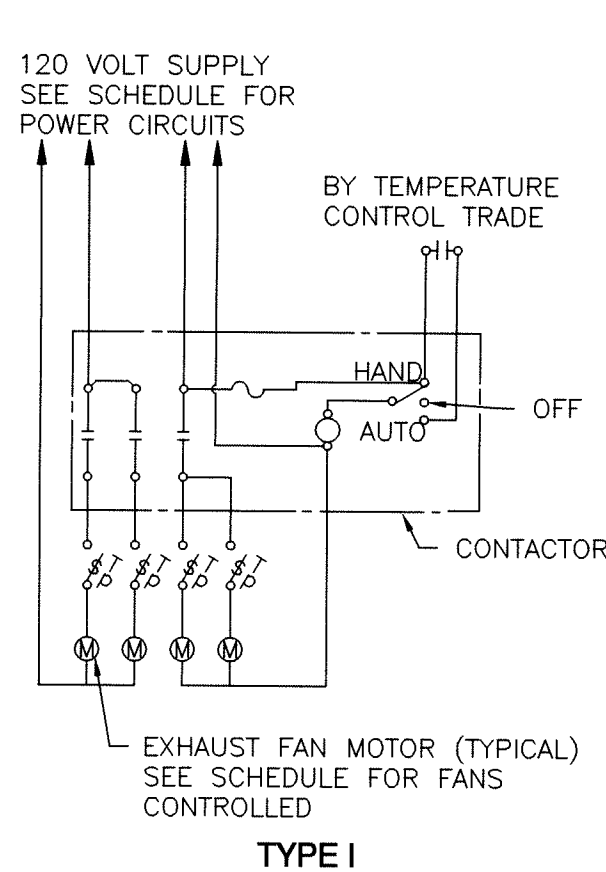
PANEL SCHEDULE					
MARK & TYPE	CKTS	BREAKER OR SWITCH	FRAME OR FUSE	REMARKS	
"1L20" N000 120/208V, 3Ø, 4W 225 AMP MAIN LUGS SURFACE MOUNTED	1-60	1P-20	O0B	CIRCUIT BREAKERS SHALL HAVE A MINIMUM 10,000 AMP INTERRUPTING CAPACITY. TWO SECTION PANEL — BOTH SECTIONS SAME HEIGHT. NOTES 1 AND 2	
"1L21" N000 120/208V, 3Ø, 4W 225 AMP MAIN LUGS SURFACE MOUNTED	1-69 70,72 73,75,77 78,79,81 80,82,84	1P-20 2P-20 3P-60 3P-15 3P-15 3P-25	O0B O0B O0B O0B O0B O0B	CIRCUIT BREAKERS SHALL HAVE A MINIMUM 10,000 AMP INTERRUPTING CAPACITY. TWO SECTION PANEL — BOTH SECTIONS SAME HEIGHT. NOTES 1 AND 2	
"1L22" N000 120/208V, 3Ø, 4W 225 AMP MAIN LUGS SURFACE MOUNTED	1-42	1P-20	O0B	CIRCUIT BREAKERS SHALL HAVE A MINIMUM 10,000 AMP INTERRUPTING CAPACITY. NOTES 1 AND 2	
"1H8" NF 277/480V, 3Ø, 4W 225 AMP MAIN LUGS SURFACE MOUNTED	1,3,5 7,9,11 8,10,12 13,15,17 18,19,21 22,23,24 25,26,27 28,29,30 31,33,35 36,37,39 39,41,43 36,40,42	3P-15 3P-15 3P-15 3P-15 3P-15 3P-15 3P-SPACE 3P-SPACE 3P-SPACE 3P-SPACE 3P-SPACE 3P-SPACE	EDB EDB EDB EDB EDB EDB EDB EDB EDB EDB EDB EDB	CIRCUIT BREAKERS SHALL HAVE A MINIMUM 18,000 AMP INTERRUPTING CAPACITY. NOTES 1 AND 2	
"1H9" NF 277/480V, 3Ø, 4W 225 AMP MAIN LUGS SURFACE MOUNTED	1-36 37-42	1P-20 1P-SPACE	EDB EDB	CIRCUIT BREAKERS SHALL HAVE A MINIMUM 18,000 AMP INTERRUPTING CAPACITY. NOTES 1 AND 2	
"2H1" NF 277/480V, 3Ø, 4W 225 AMP MAIN LUGS SURFACE MOUNTED	1,3,5 7,9,11 8,10,12 13,15,17 18,19,21 22,23,24 25,26,27 28,29,30 31,33,35 36,37,39 39,41,43 36,40,42	3P-15 3P-15 3P-50 3P-50 3P-SPACE 3P-SPACE 3P-SPACE 3P-SPACE 3P-SPACE 3P-SPACE 3P-SPACE 3P-SPACE	EDB EDB EDB EDB EDB EDB EDB EDB EDB EDB EDB EDB	CIRCUIT BREAKERS SHALL HAVE A MINIMUM 18,000 AMP INTERRUPTING CAPACITY. NOTES 1 AND 2	
"KM0P" OED 277/480V, 3Ø, 4W 2000 AMP MAIN BUS FREE STANDING FRONT ACCESSIBLE	M 1 4-5 6-9 10-11 12 13 14	3P-1200 3P-600 3P-200 3P-200 3P-200 3P-60 3P-60 3P-400	1200 600 200 200 200 SPARE SPARE 350	TWO SECTION SWITCHBOARD. SECTION ONE: 48" W X 90" H X 36" D SECTION TWO: 48" W X 90" H X 36" D SECTION ONE: CIRCUITS M-8 CIRCUIT M IS MAIN FOR CIRCUITS 1-14. NOTES 1 AND 2	
"KLD1" OED 277/480V, 3Ø, 4W 800 AMP MAIN BUS FREE STANDING FRONT ACCESSIBLE	M 1-3 5-6 7-8	3P-800 3P-200 3P-200 3P-200	800 200 200 SPARE	SINGLE SECTION SWITCHBOARD. SECTION ONE: 48" W X 90" H X 28" D SECTION TWO: 48" W X 90" H X 28" D CIRCUIT M IS MAIN FOR CIRCUITS 1-8. NOTES 1 AND 2	
"1XH3" NF 277/480V, 3Ø, 4W 100 AMP MAIN LUGS SURFACE MOUNTED	1-12 13,15,17 14,16,18	1P-20 3P-SPACE	EDB EDB EDB	CIRCUIT BREAKERS SHALL HAVE A MINIMUM 18,000 AMP INTERRUPTING CAPACITY. NOTES 1 AND 2	
"1XH4" NF 277/480V, 3Ø, 4W 100 AMP MAIN LUGS SURFACE MOUNTED	1-12 13,15,17 14,16,18 19,21,23 24,26,28,30 31,33,35 36,40,42	1P-20 3P-15 3P-15 3P-15 3P-15 3P-SPACE 3P-SPACE	EDB EDB EDB EDB EDB EDB EDB	CIRCUIT BREAKERS SHALL HAVE A MINIMUM 18,000 AMP INTERRUPTING CAPACITY. NOTES 1 AND 2	
"1XL2" N000 120/208V, 3Ø, 4W 50 AMP MAIN BRKR SURFACE MOUNTED	1-12 13,15,17 16,18 17,18 19,20 21-24	1P-20 2P-20 2P-20 3P-20 3P-20 1P-SPACE	O0B O0B O0B O0B O0B O0B	CIRCUIT BREAKERS SHALL HAVE A MINIMUM 10,000 AMP INTERRUPTING CAPACITY. NOTES 1 AND 2	
NOTES: 1. PROVIDE PANEL WITH SEPARATE ISOLATED GROUND BUS. 2. PROVIDE PANEL WITH TVSS.					

AUTOMATIC EXHAUST FAN SCHEDULE					
ZONE NO.	EXHAUST FAN NO.	POWER CKT.	CONTROLLED BY	CONTROL DEVICE LOCATION CONTROL CKT.	SEE NOTES
1	EF-KN3	1L21-18	CONTACTOR CKC-1	A-101 1L21-18	1,2,6,8
2	EF-KN1 EF-KN2 EF-KN9	1L21-18 1L21-18 1L21-20	CONTACTOR CKC-2	A-112 1L21-20	1,2,6,9
2	EF-KN4 EF-KN5 EF-KN6	1L20-45 1L20-45 1L20-47	CONTACTOR CKC-3	A-127 1L21-47	1,2,6,8
	EF-KN7	1L20-47	THERMOSTAT	A-127 1L21-47	1,4,5,11
	EF-KN8	1L20-50	THERMOSTAT	A-201 1L21-47	1,4,5,11
	EF-KN10	1L22-19	THERMOSTAT	A-101 1L22-19	1,4,5,11
NOTES: 1. SEE TYPICAL AUTOMATIC EXHAUST FAN WIRING CONTROL DIAGRAM(S). 2. CONTROL TYPE I. 3. CONTROL TYPE II. 4. CONTROL TYPE III. 5. CONTROLLED BY LINE VOLTAGE THERMOSTAT (THERMOSTAT BY TEMPERATURE CONTROL TRADE). 6. INSTALL A MANUAL STARTER WITH THERMAL OVERLOADS AND PILOT LIGHT FOR EACH AUTOMATIC EXHAUST FAN CONTROLLED BY A CONTRACTOR BENEATH OR ADJACENT TO THE APPROPRIATE CONTACTOR, UNLESS OTHERWISE NOTED. 7. CONTROLLED BY HUMIDISTAT (HUMIDISTAT BY TEMPERATURE CONTROL TRADE). 8. ALLEN BRADLEY #500-AAD920C WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH. 9. ALLEN BRADLEY #500-AAD930C WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH. 10. INTERLOCK EXHAUST FAN WITH THERMOSTAT AND REFRIGERANT LEAK DETECTOR SYSTEM. 11. INSTALL A MANUAL STARTER WITH THERMAL OVERLOADS AND PILOT LIGHT FOR EACH AUTOMATIC EXHAUST FAN CONTROLLED BY A THERMOSTAT ADJACENT TO THE APPROPRIATE CONTACTOR, UNLESS OTHERWISE NOTED.					

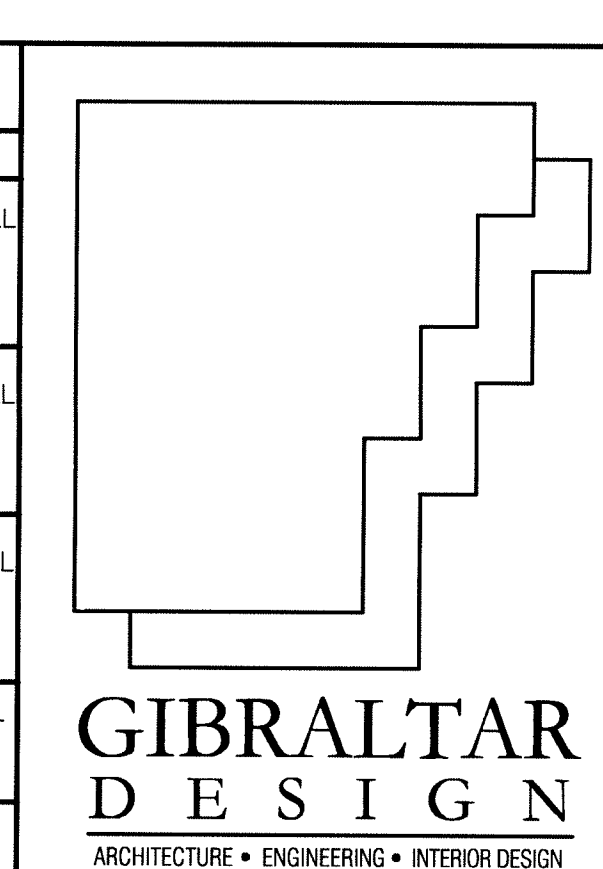
INCANDESCENT/HID FIXTURE SCHEDULE		
TYPE	MANUFACTURER'S CATALOG NO.	DESCRIPTION
K-1	CAPRI MHS52-S53P-XXX-TP PORTFOLIO M5335T-750-11300P-WP-TP LITHONIA LAH-175M-12FW-T3-TP-XXX PRESCOLITE L314M9-175MHFE-13138	SQUARE RECESSED MOUNTED WEATHERPROOF-TAMPERPROOF METAL HALIDE TYPE LIGHT FIXTURE WITH 277 VOLT BALLAST AND ONE(1) 175 WATT METAL HALIDE LAMP.
K-2	DAYBRITE WLM-175M-MT-VSWLM-WTP LITHONIA TWH-175M-XXX-V6 LUMARK MHWL-175-XXX-PCS-TP-FINISH PRESCOLITE	WEATHERPROOF-TAMPERPROOF WALL PACK METAL HALIDE TYPE LIGHT FIXTURE WITH LEXAN SHIELD, 277 VOLT BALLAST AND ONE(1) 175 WATT METAL HALIDE LAMP. (COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT).
K-3	EMERGI-LITE LEDP-1R-XXX-EI LITHONIA LES-2R-XXX-EI SURE-LITES CAX-610000-R-XX	277 VOLT SURFACE MOUNTED DIE CAST ALUMINUM EXIT SIGN WITH SINGLE RED STENCIL FACE (ARROWS AS INDICATED ON DRAWINGS) AND LED LAMPS.
K-4	EMERGI-LITE LEDP-2R-XXX-EI LITHONIA LES-2R-120/277 SURE-LITES CAX-620000-R-XX	277 VOLT SURFACE MOUNTED DIE CAST ALUMINUM EXIT SIGN WITH DOUBLE RED STENCIL FACE (ARROWS AS INDICATED ON DRAWINGS) AND LED LAMPS.
K-5	EMCO ERP-25-1-3H-400MH-XXX-SC LITHONIA KOR-400M-R3-XXX-CBA-RPF	POLE TOP MOUNTED METAL HALIDE LIGHT FIXTURE WITH TYPE III LIGHT DISTRIBUTION, 277 VOLT BALLAST AND ONE(1) 400 WATT METAL HALIDE LAMP MOUNTED ON A 30"-Ø ROUND TAPERED STEEL POLE (COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT).
K-6	CAPRI KT4400W HALO L764-P LITHONIA TC40-WH	WHITE TRACK MOUNTED INCANDESCENT LIGHT FIXTURE WITH ONE(1) 250 WATT PAR 38 MEDIUM BASE QUARTZ FLOOD LAMP.
K-7	DAYBRITE WLM-200INC-VSWLM-TP LITHONIA INWL-200INC-LEXAN SHIELD-TP	WALL MOUNTED WEATHERPROOF-TAMPERPROOF WALL PACK TYPE LIGHT FIXTURE WITH LEXAN SHIELD AND 200 WATT INCANDESCENT LAMP.
K-8	LITHONIA DS-1R-20 PENTECO P-160-R-20	TRINIMUM SELF-ILLUMINATING SINGLE-FACE EXIT SIGN

FLUORESCENT FIXTURE SCHEDULE		
TYPE	MANUFACTURER'S CATALOG NO.	DESCRIPTION
F-1	DAYBRITE 2P30S32-18FL-XXX-1/2-EB LITHONIA PM3-GB-432-32LS-XXX-GB-PAF COLUMBIA P414-232F-SP18-S-EBBRLH-XXX	1X4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE CLIPS, DEEP CELL SPECULAR PARABOLIC LOUVERS (8 CELLS-MINIMUM 3" DEEP), 277 VOLT BALLAST AND TWO(2) 32 WATT T8 LAMPS.
F-2	DAYBRITE 2P30S432-48FL-XXX-2/2-EB LITHONIA 2PM3-GB-432-32LS-XXX-GB-PAF COLUMBIA 2P30X-432S48MI-XXX-EQ-EBB2 P424-432G-SP48-S-EBBRLH-XXX	2X4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE CLIPS, DEEP CELL SPECULAR PARABOLIC LOUVERS (8 CELLS-MINIMUM 3" DEEP), 277 VOLT BALLAST AND FOUR(4) 32 WATT T8 LAMPS.
F-3	DAYBRITE 2P30S332-36FL-XXX-1/21-EB LITHONIA 2PM3-GB-332-18LS-XXX-GB-PAF COLUMBIA 2P30X-332S36MI-XXX-EQ-EBB2 P424-332G-SP36-S-EBBRLH-XXX-2R	2X4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE CLIPS, DEEP CELL SPECULAR PARABOLIC LOUVERS (18 CELLS-MINIMUM 3" DEEP), 277 VOLT BALLAST AND THREE(3) 32 WATT T8 LAMPS.
F-4	DAYBRITE 1F232-PP-XXX-1/2-EB LITHONIA AF10-232-XXX-GB-HC VERSATECH VMB-5124-U/O-ELB-OCT-XXX	1'X4' CHAIN PENDANT MOUNTED INDUSTRIAL TYPE LIGHT FIXTURE WITH 277 VOLT BALLAST AND TWO(2) 32 WATT T8 LAMPS.
F-5	ALKCO SFLINC150-048	48" UNDERCABINET SOLID FRONT PENDANT MOUNTED LIGHT FIXTURE WITH 277 VOLT BALLAST AND ONE(1) 32 WATT T8 LAMPS.
F-6	ALKCO 2146-T8-ELB-XXX METALUX BAU-232-XXX-EB COLUMBIA P414-232F-SP18-S-EBBRLH-XXX	4' WALL MOUNTED UP/DOWN FLUORESCENT LIGHT FIXTURE WITH 277 VOLT BALLAST AND ABOVE FINISHED FLOOR.
F-7	CAPRI PL29-S2-A62-XXX HALO C0702-RE-7050-LI LITHONIA AF2-260T-BAR-XXX PRESCOLITE CFR826UEB-ST492A	RECESSED MOUNTED FLUORESCENT TYPE DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, 277 VOLT BALLAST AND TWO(2) 4 PIN 26 WATT COMPACT FLUORESCENT LAMP.
F-8	DAYBRITE 1P3FS232-18FL-XXX-1/2-EB LITHONIA PM3-FB-232-8LS-XXX-GB-PAF COLUMBIA P414-232F-SP18-S-EBBRLH-XXX	1X4 RECESSED MOUNTED FLANGE TYPE LIGHT FIXTURE WITH DEEP CELL SPECULAR PARABOLIC LOUVERS (8 CELLS-MINIMUM 3" DEEP), 277 VOLT BALLAST AND TWO(2) 32 WATT T8 LAMPS.
F-9	DAYBRITE 2P3FS432-48FL-XXX-2/2-EB LITHONIA 2PM3N-FB-432-32LS-XXX-GB-PAF COLUMBIA P424-432G-SP48MI-XXX-EBB2 P424-432F-SP48-S-EBBRLH-XXX	2X4 RECESSED MOUNTED FLANGE TYPE LIGHT FIXTURE WITH DEEP CELL SPECULAR PARABOLIC LOUVERS (32 CELLS-MINIMUM 3" DEEP), 277 VOLT BALLAST AND FOUR(4) 32 WATT T8 LAMPS.
F-10	PEERLESS LD3-020462-XXX-EB METALUX K14232-XXX-EB NEORAY 621P2-2-XXX	PENDANT MOUNTED INDIRECT LIGHTING SYSTEM WITH EXTRUDED HOUSING, 277 VOLT BALLAST AND TWO(2) 32 WATT T8 LAMPS. SEE FLOOR PLAN FOR EXACT LENGTH AND SHAPE. VARIATIONS IN COLOR AND FINISH TO BE SELECTED BY THE ARCHITECT. PROVIDE CUSTOM CONVERS TO COMPLETE SHAPES INDICATED ON DRAWINGS.
F-11	DAYBRITE 1DG232-FS19-XXX-1/2-EB LITHONIA GS-232-A19-XXX-GB-PAF METALUX GS-232-A19/156-XXX-EQ-EBB1 COLUMBIA SPA14-232G-SPA18-EBBRLH-XXX	1X4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE CLIPS, FRAMED ACRYLIC LENS (0.150 MINIMUM THICKNESS), 277 VOLT BALLAST AND TWO(2) 32 WATT T8 LAMPS.
F-12	DAYBRITE 2DG432-FS19-XXX-2/2-EB LITHONIA 2PM3N-FB-432-32LS-XXX-GB-PAF METALUX GS-232-A19/156-XXX-EQ-EBB2 COLUMBIA SPA24-432G-SPA19-EBBRLH-XXX	2X4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE CLIPS, FRAMED ACRYLIC LENS (0.150 MINIMUM THICKNESS), 277 VOLT BALLAST AND FOUR(4) 32 WATT T8 LAMPS.
F-13	DAYBRITE 2DG332-FS19-XXX-2/21-EB LITHONIA 2PM3N-FB-432-32LS-XXX-GB-PAF METALUX GS-232-A19/156-XXX-EQ-EBB2 COLUMBIA SPA24-432G-SPA19-EBBRLH-XXX	2X4 RECESSED MOUNTED GRID TYPE LIGHT FIXTURE WITH EARTHQUAKE CLIPS, FRAMED ACRYLIC LENS (0.150 MINIMUM THICKNESS), 277 VOLT BALLAST AND THREE(3) 32 WATT T8 LAMPS.

FOOD FACILITIES EQUIPMENT SCHEDULE													
ITEM NO.	DESCRIPTION	NO. REQ.	ELECTRICAL REQUIREMENTS & DATA								CORD AND PLUG	DIRECT CONN. REQ.	NOTES
			HP	AMP	KW	VOLT	PH	CIRCUIT	WIRE SIZE	CONDUIT SIZE	GROUND SIZE		
E4	DISPOSER	1	2	6.6		208	3	1L21-24, 1L21-25, 1L21-26	12	3/4	12	X	
E5	UNDERCOUNTER DISHMACHINE	1	3/4	40.3		208	3	1L21-25, 1L21-26	6	1 1/4	6		X
E7	REFRIGERATOR/FREEZER	1	1/4	6.9		120	1	1L21-26	12	3/4	12		X
E7A	REFRIGERATOR/FREEZER	1	1/3	7.6		120	1	1L21-28	12	3/4	12		X
E8	MOBILE COOK & HOLD OVEN	1		17	6.2	208	3	1L21-29, 1L21-30, 1L21-31	10	3/4	10	X	
E9	MOBILE HEATED CABINETS	3		12	1.5	120	1	1L21-30	12	3/4	12	X	
				12	1.5	120	1	1L21-32	12	3/4	12	X	
				12	1.5	120	1	1L21-34	12	3/4	12	X	
E10	CONVECTION MICROWAVE OVEN	1		16.3	3.4	208	3	1L21-29, 1L21-30, 1L21-31	10	3/4	10	X	
E13	REFRIGERATOR	1	1/2	12.4		120	1	1L21-33	12	3/4	12		X
E14	MOBILE CASHIER'S COUNTER	1		16		120	1	1L21-35	12	3/4	12	X	
E14A	MOBILE CASHIER'S COUNTER	1											1
E16	MOBILE COLD FOOD COUNTER	1	1/4	7		120	1	1L21-36	12	3/4	12	X	
E17	MOBILE HOT FOOD COUNTER	1		22		120/208	1	1L21-70,72	10	3/4	10	X	
E19	MOBILE MLK COOLER	1	1/3	8.2		120	1	1L21-31	12	3/4	12	X	
NOTES: 1. PROVIDE A KITCHEN TYPE "FS" OUTLET BOX AT THE FLOOR WITH 3/4" CONDUIT FROM CASHIER'S STATION TO A POINT ABOVE ACCESSIBLE CEILING FOR COMPUTER WIRING. SEE SPEC SECTION 16160 FOR OUTLET BOX INSTALLATION METHOD.													



VARIABLE FREQUENCY AIR HANDLING UNIT WIRING DIAGRAM
 NOT TO SCALE
 NOTES: ① WIRING BY ELECTRICAL TRADE.
 ② WIRING BY TEMPERATURE CONTROL TRADE.



PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
 NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
 OF LAWRENCE TOWNSHIP
 MARION COUNTY, INDIANA

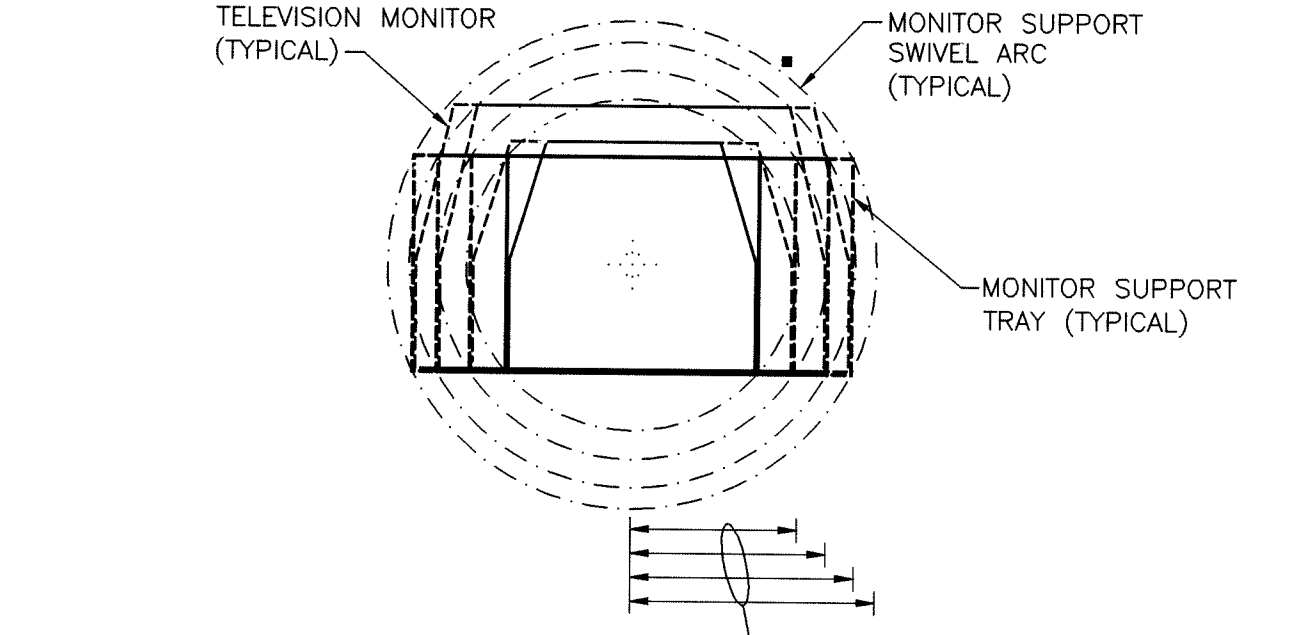
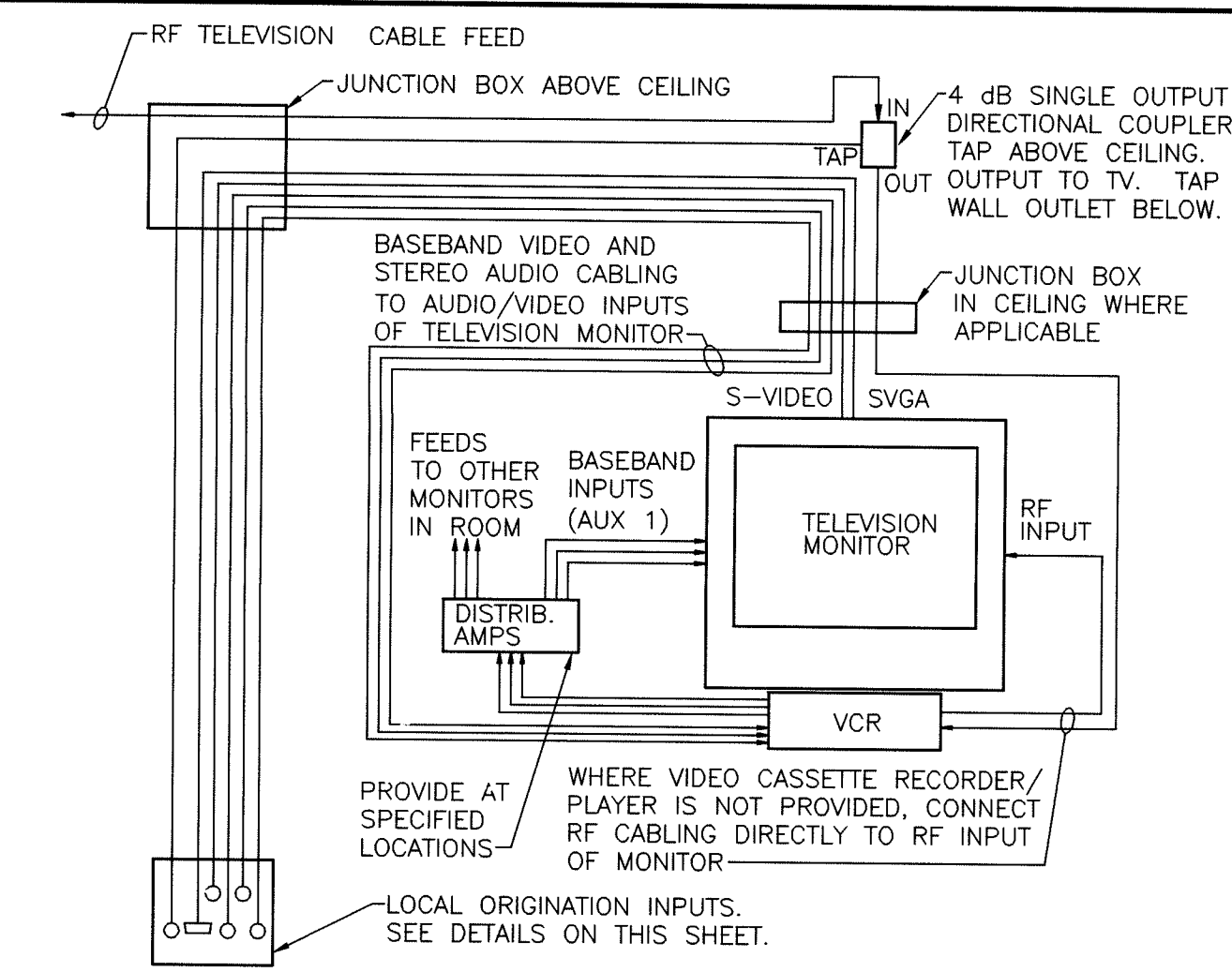
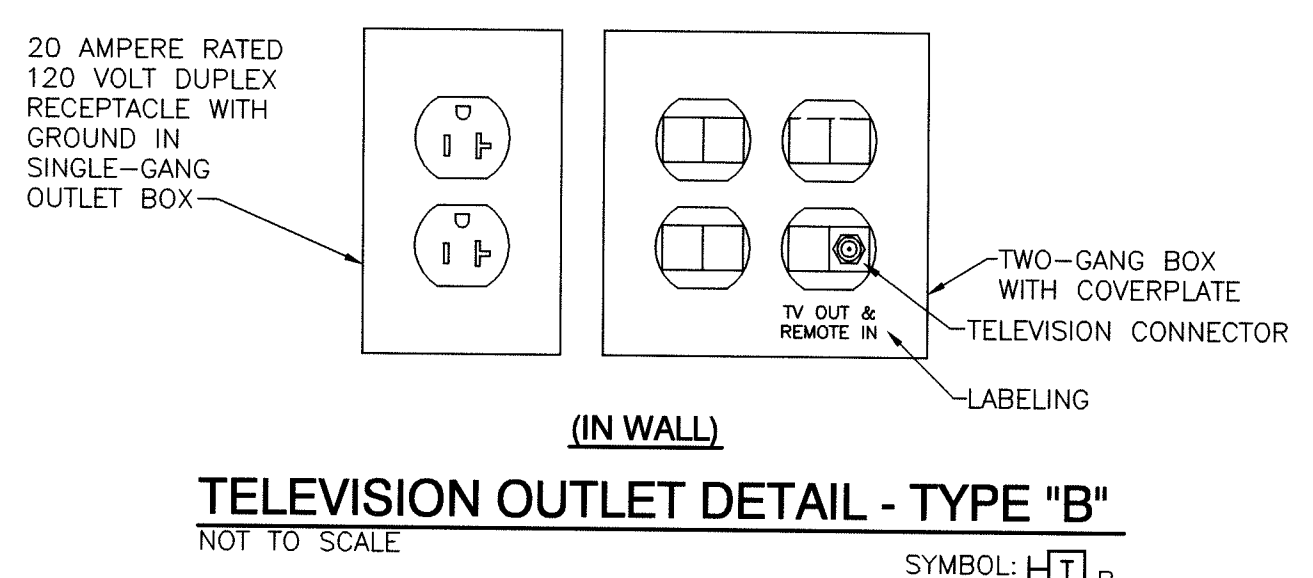
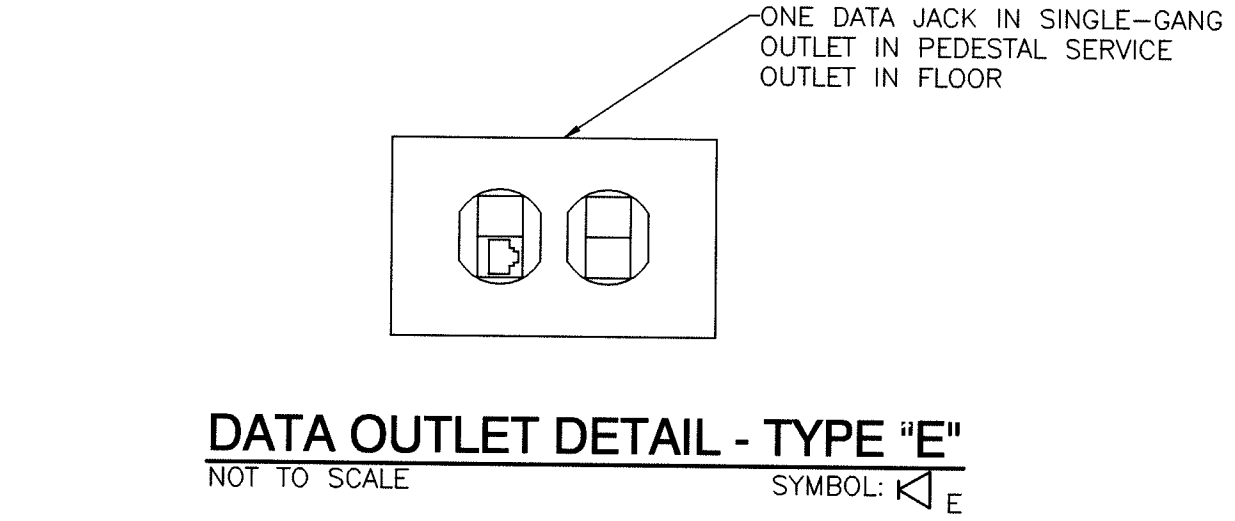
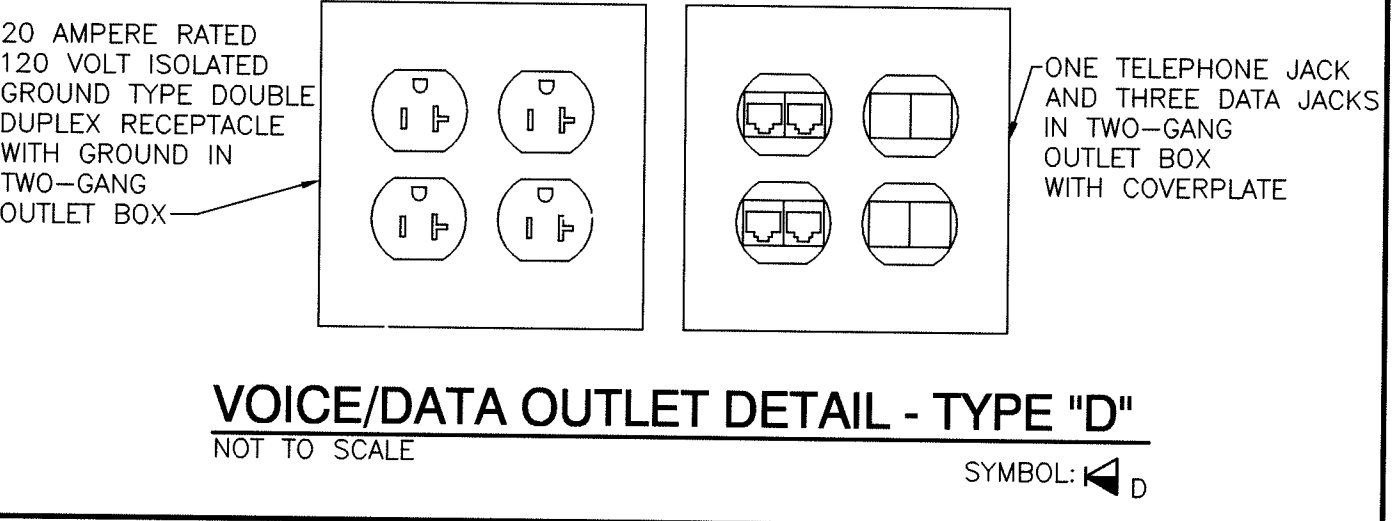
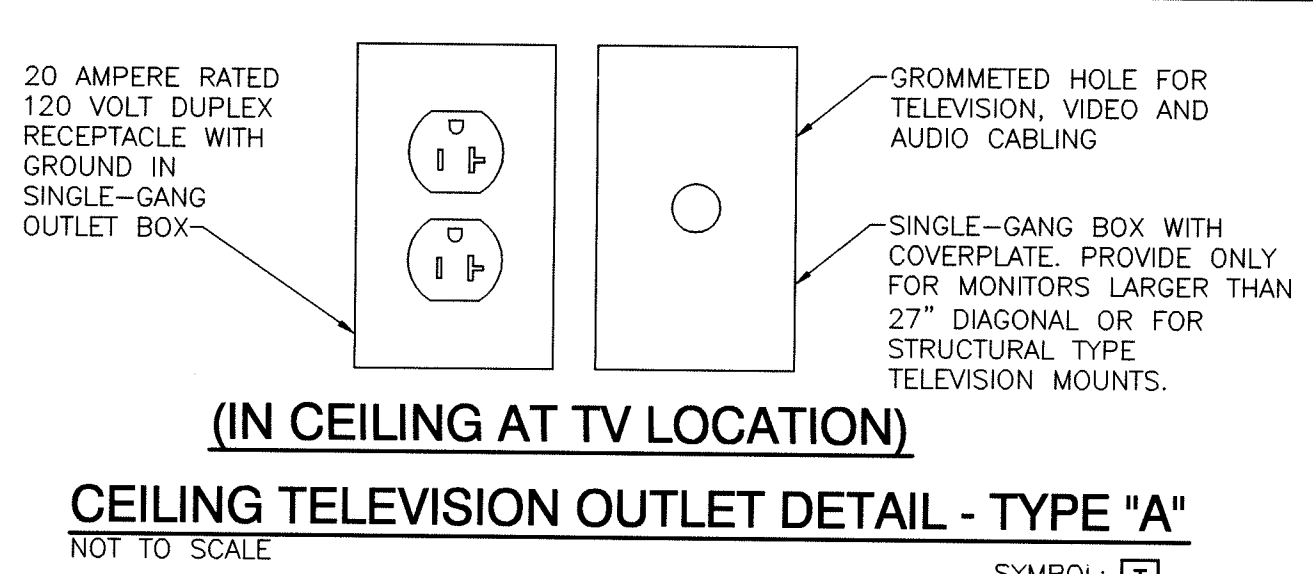
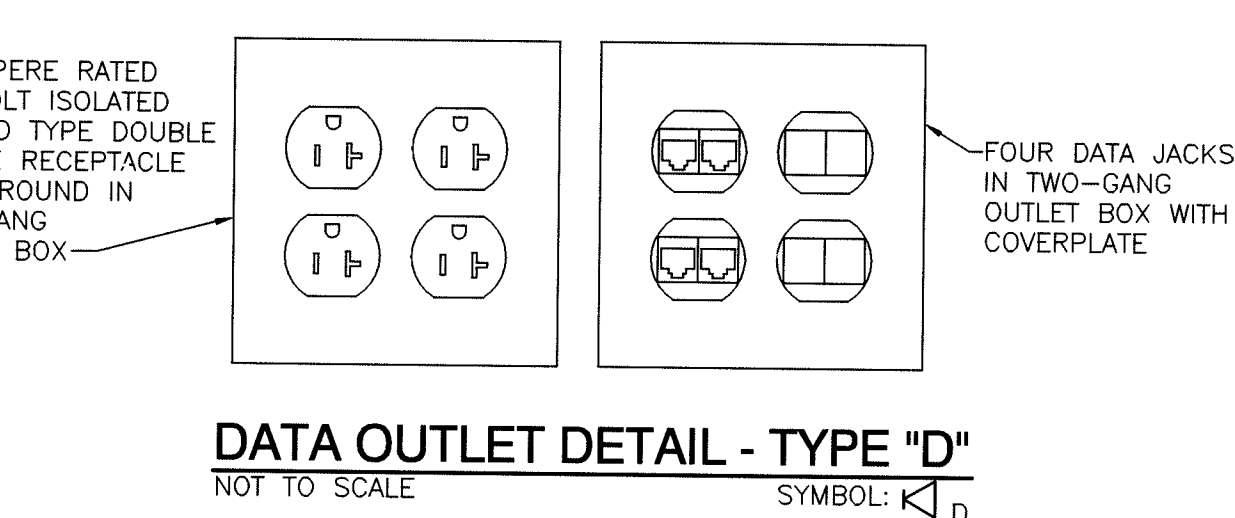
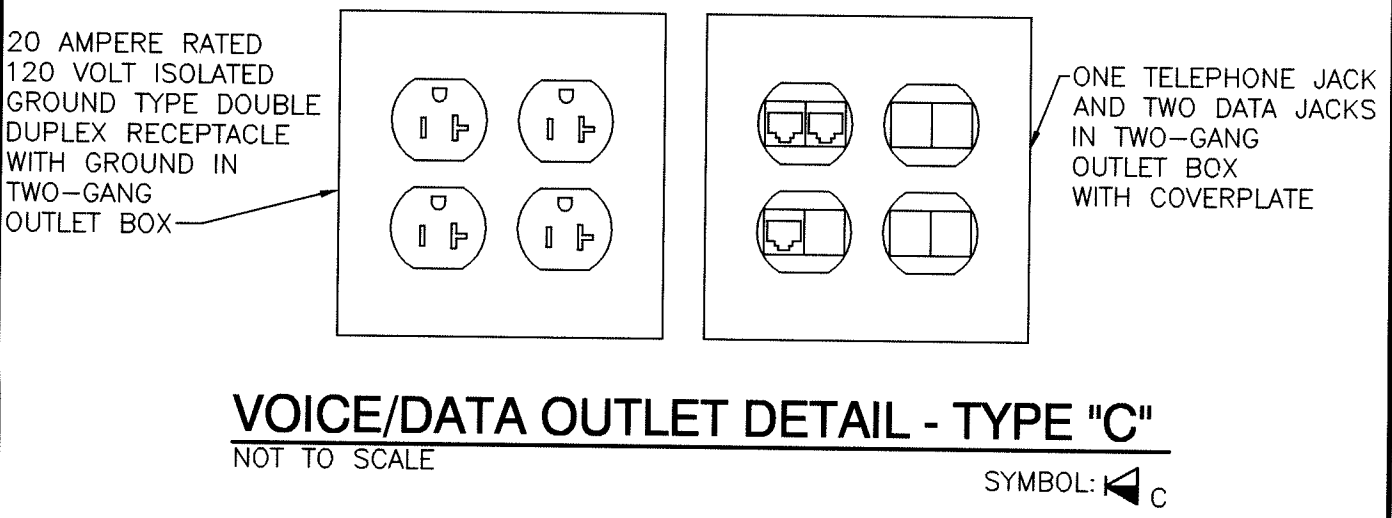
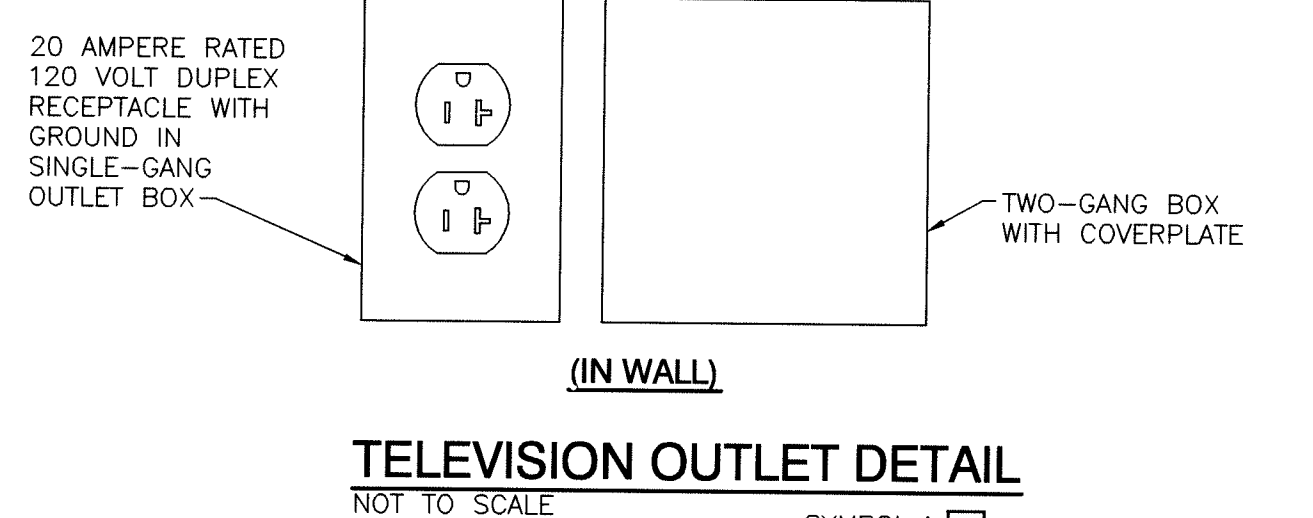
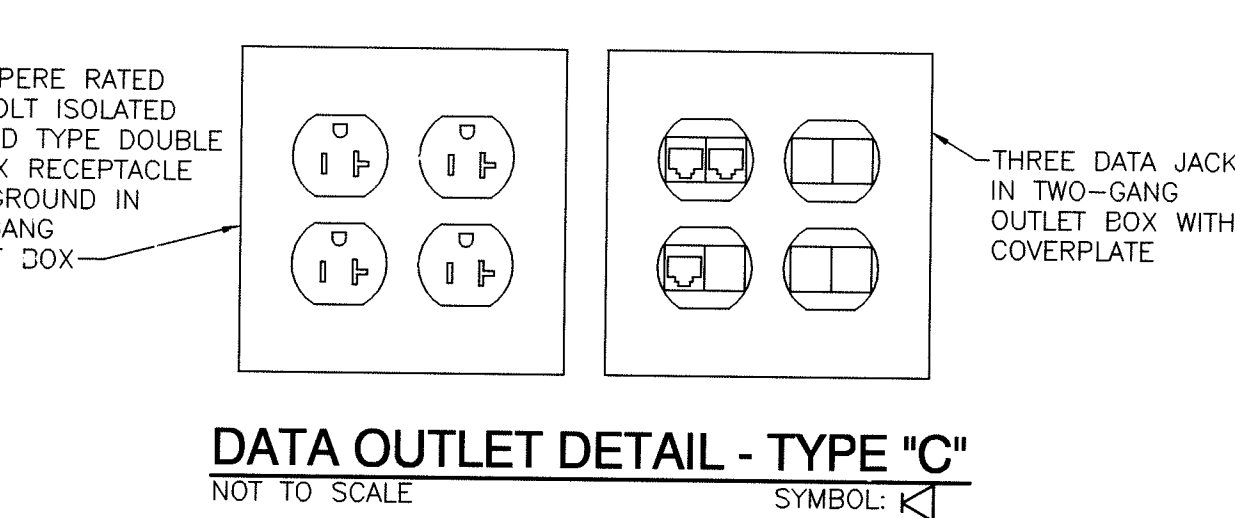
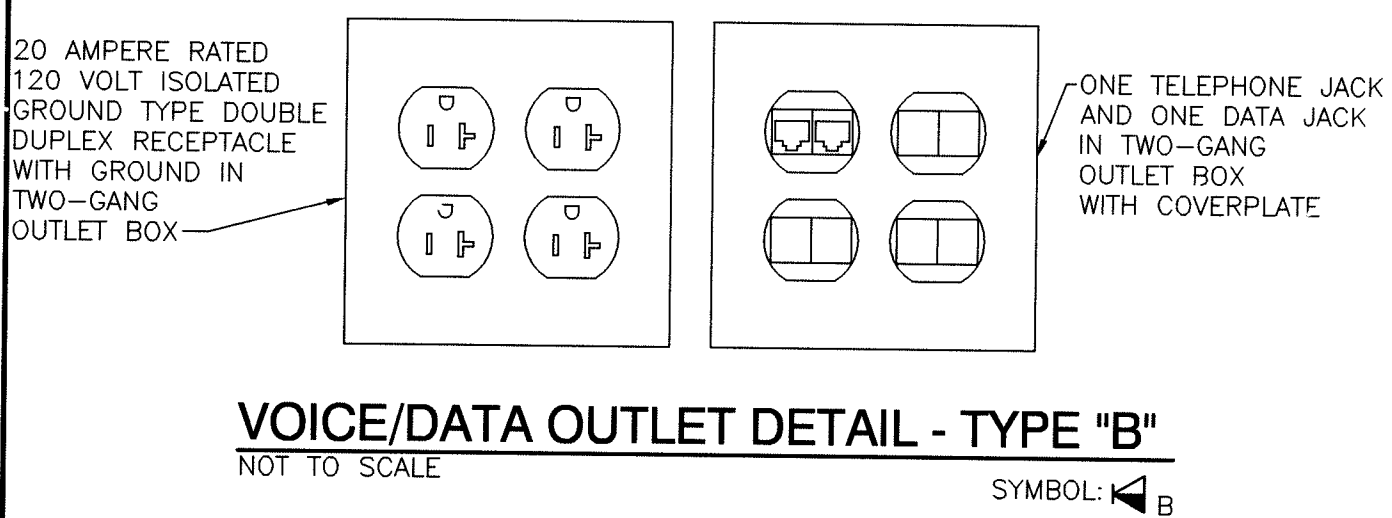
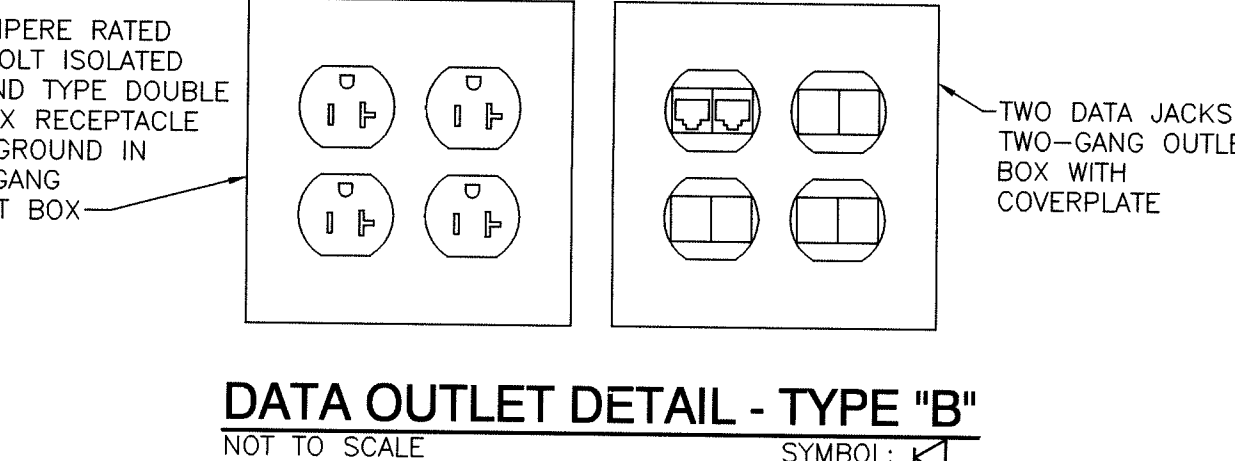
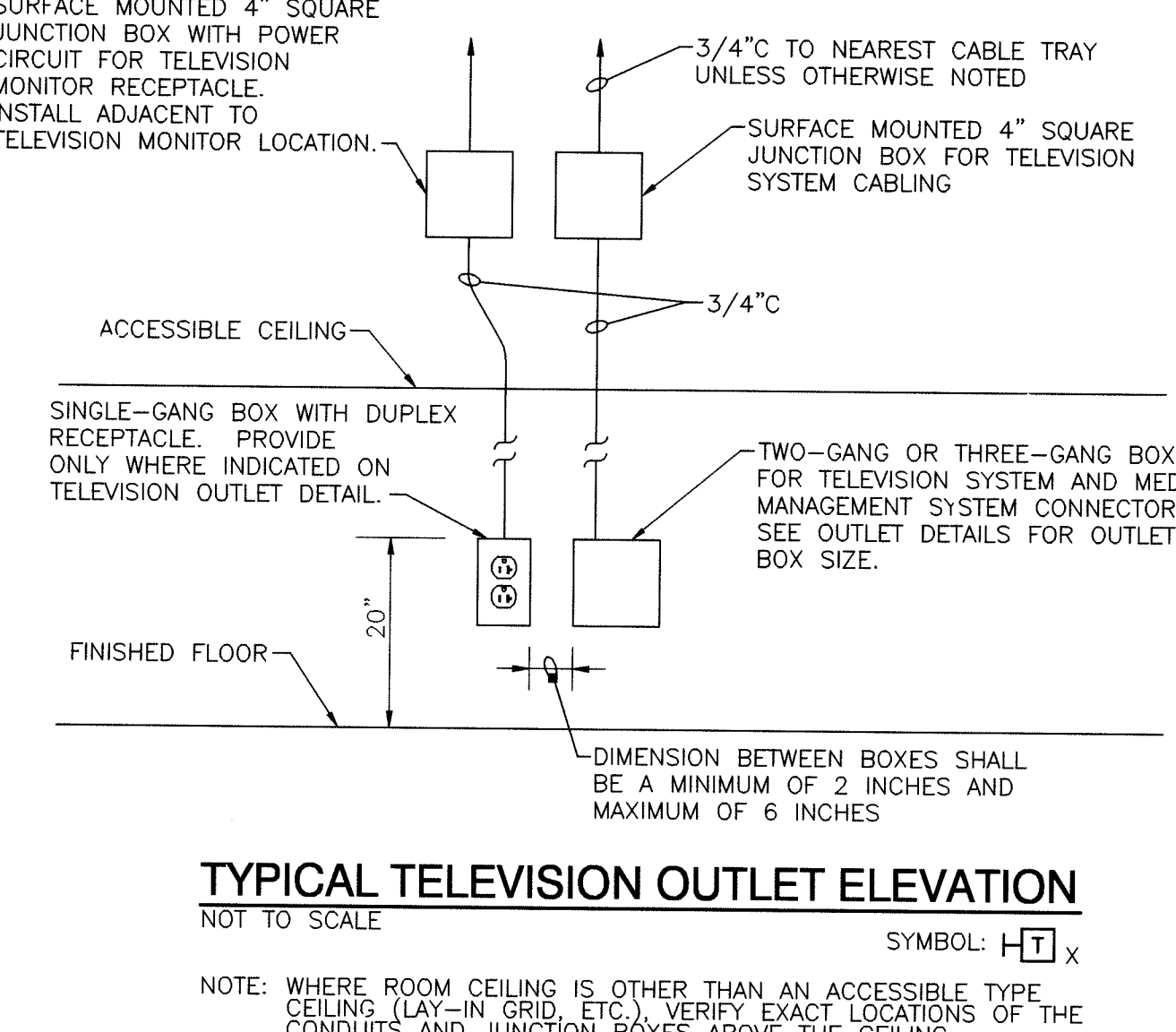
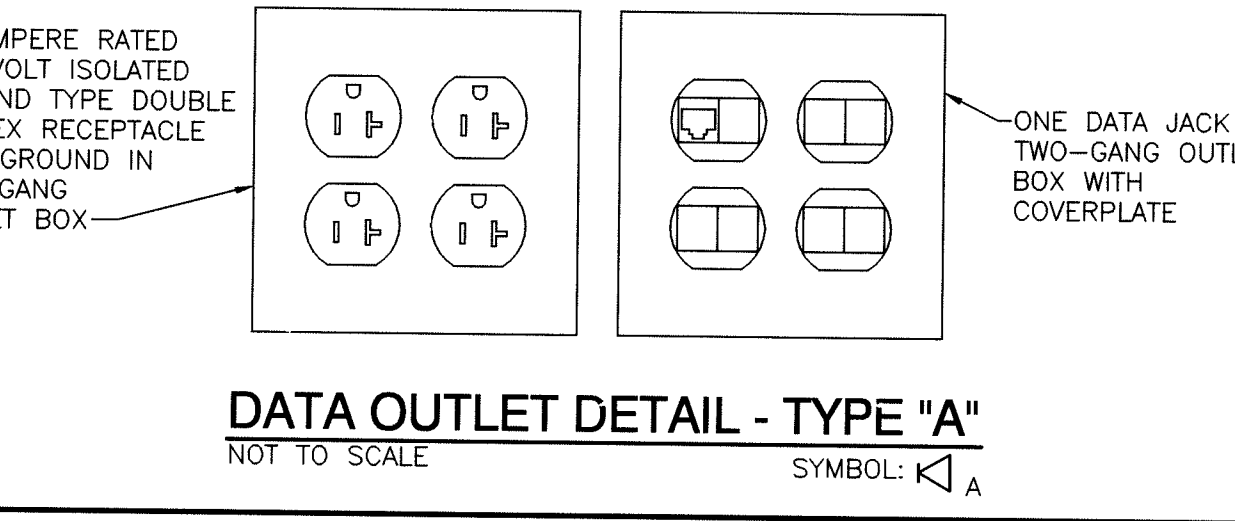
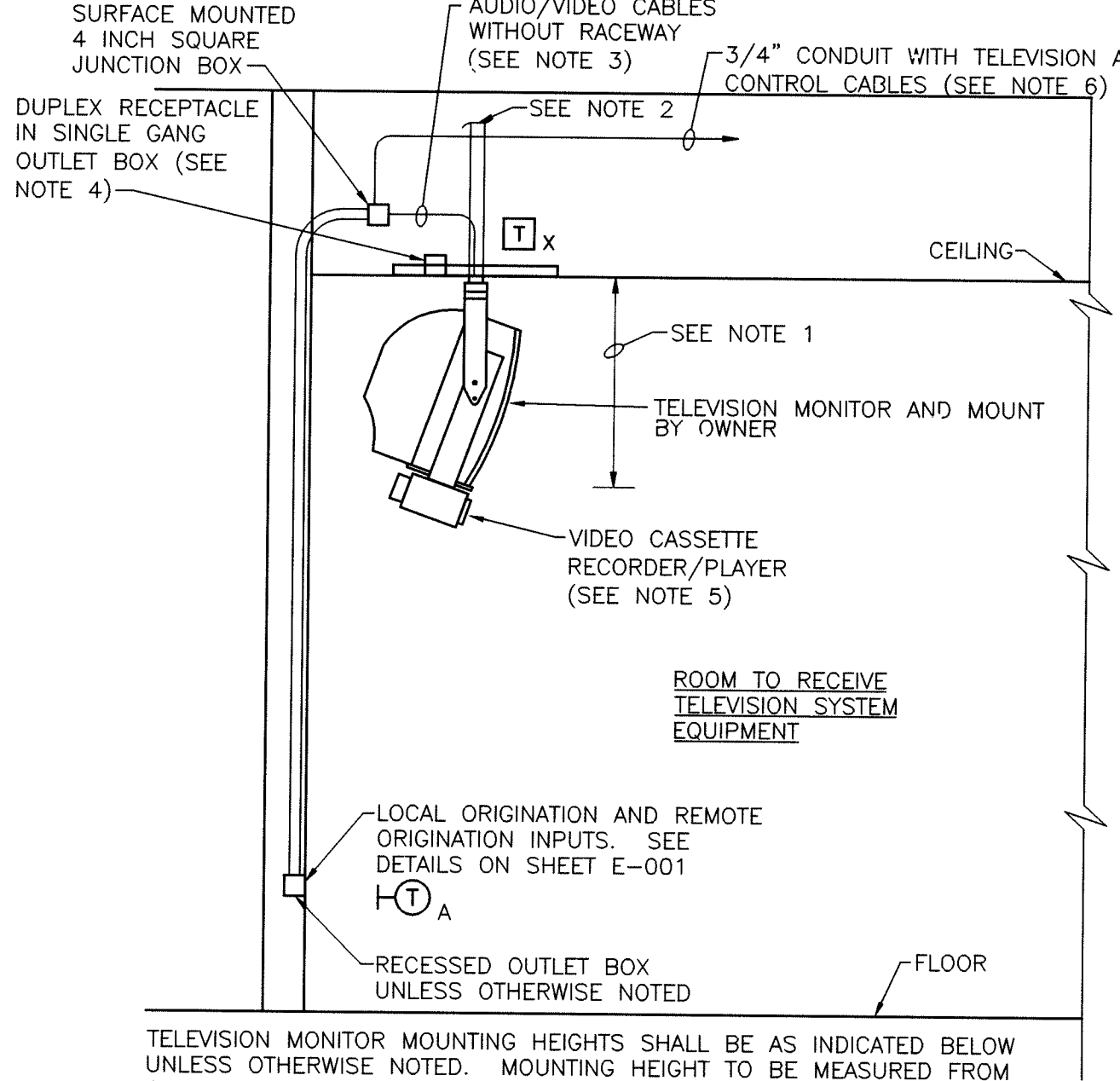
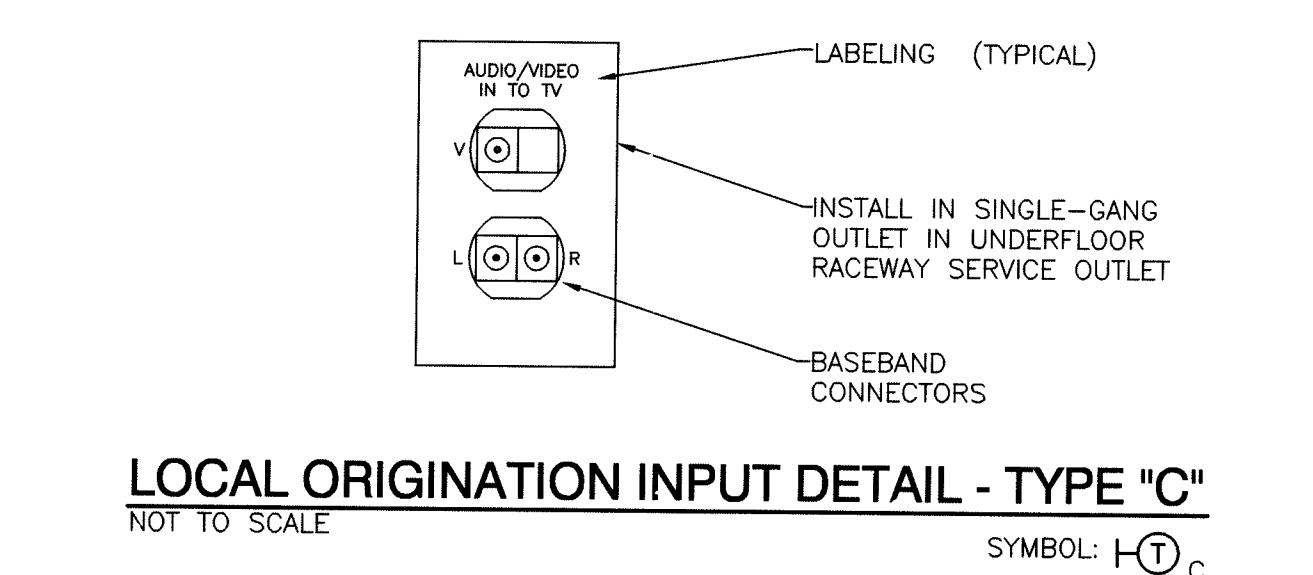
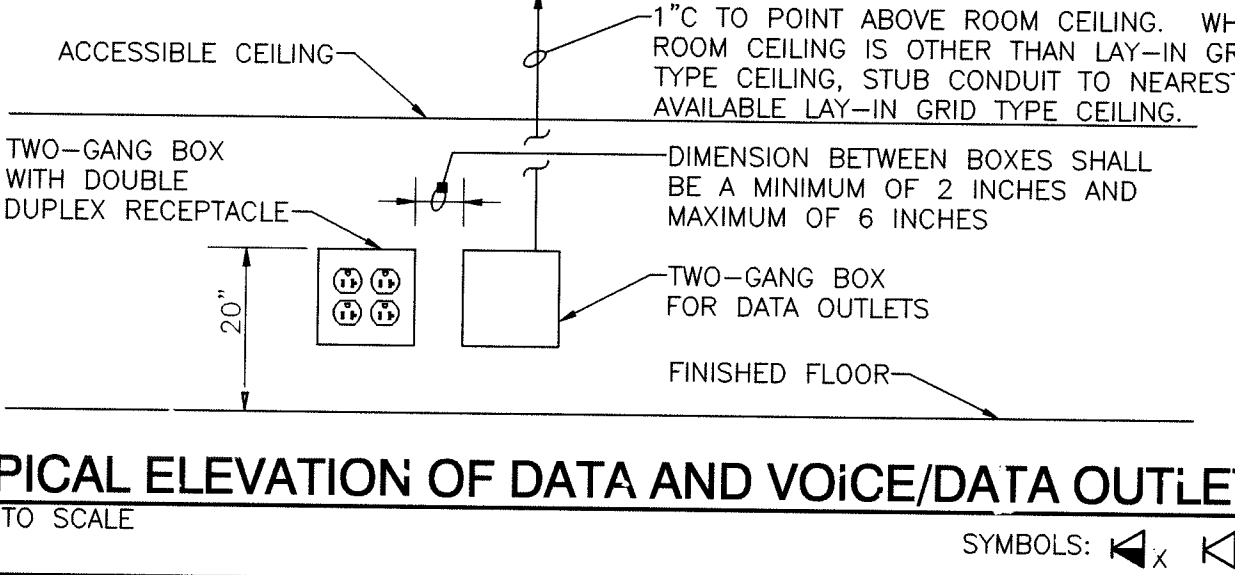
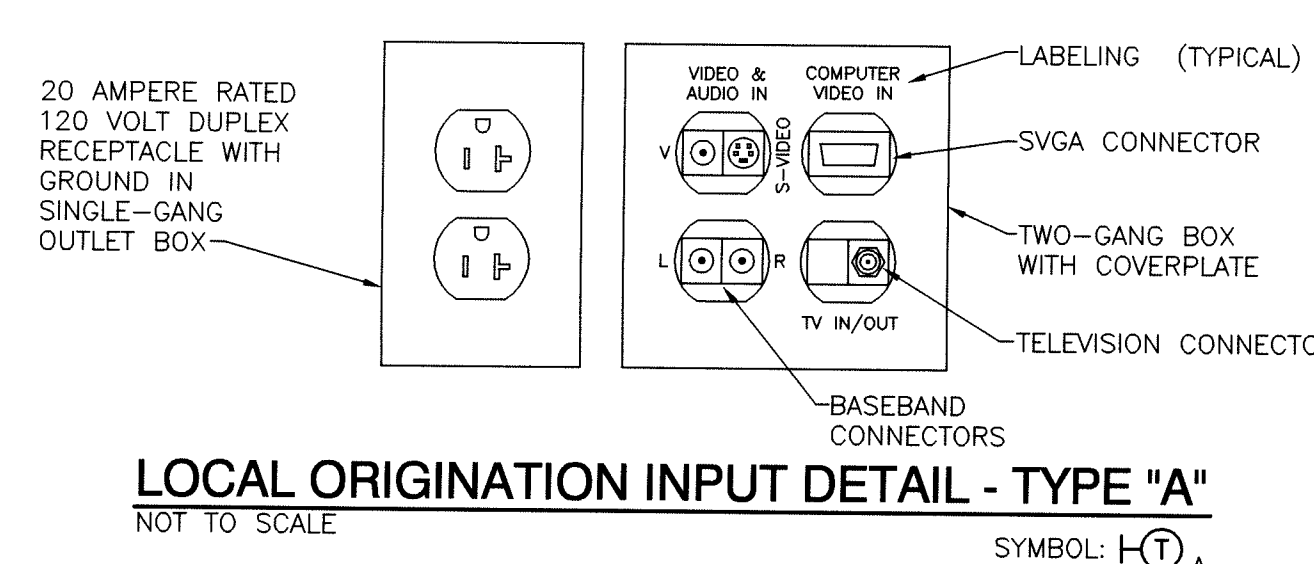
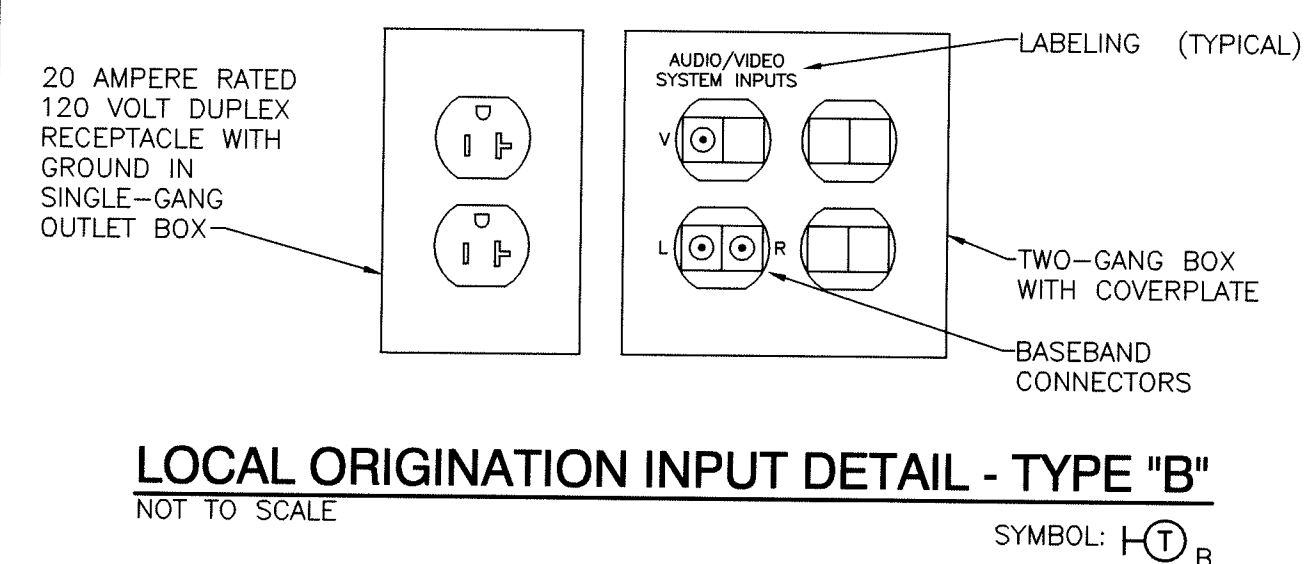
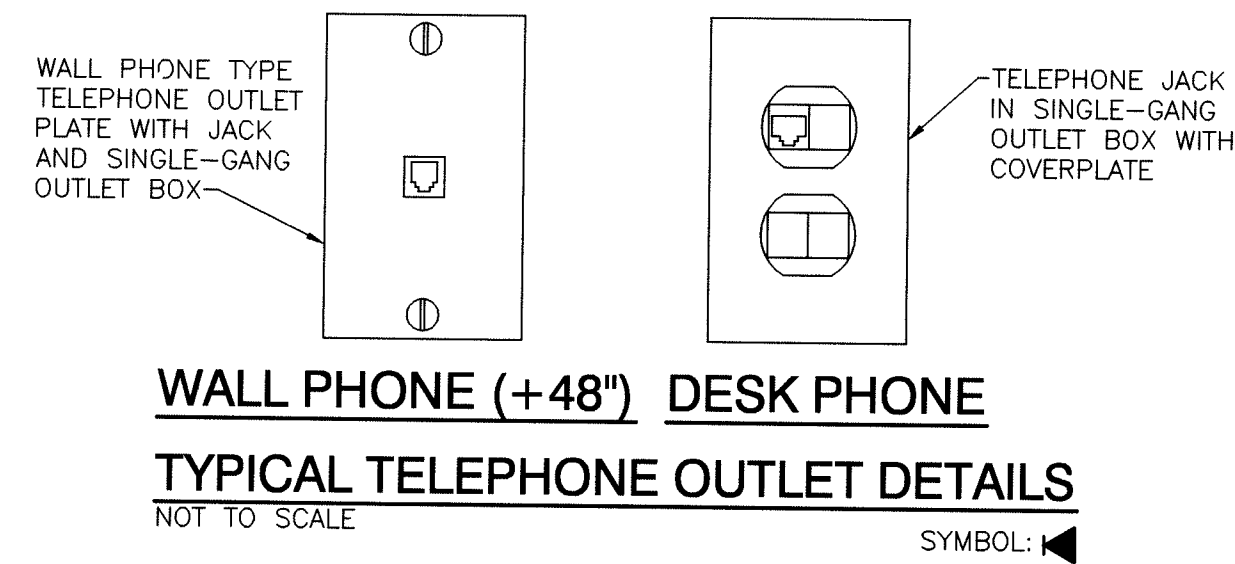
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 Email: info@gibraltarDesign.com
 Phone 317.580.5777 Fax 317.580.5778

PROJECT
 02-580
 DATE
 04/21/03
 COORDINATED BY
 PCB
 DRAWN BY
 PCB
 CHECKED BY
 MFJ

PROFESSIONAL ENGINEER
 NO. 20415
 STATE OF INDIANA

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REVISIONS	
MARK	DATE ISSUED FOR
	04/21/03 CD BID SET ISSUED

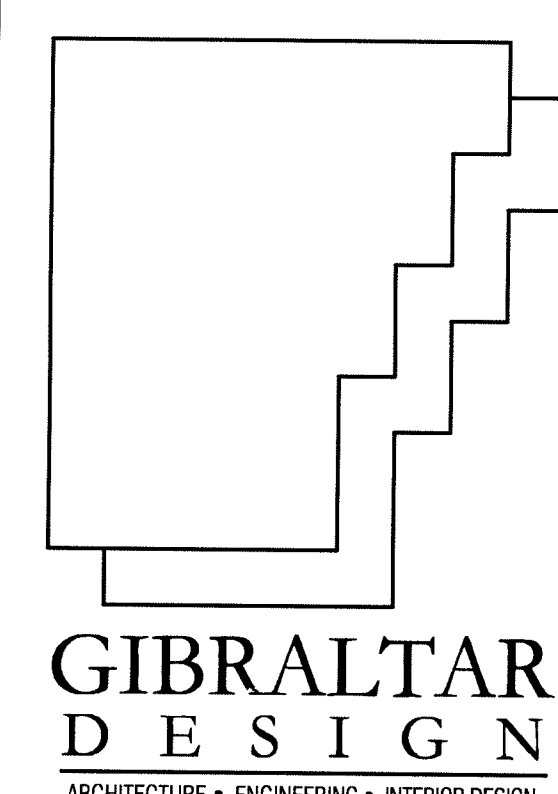


TELEVISION MONITOR SUPPORT MOUNTING CLEARANCE DETAIL

NOT TO SCALE

NOTE: MINIMUM DISTANCE FROM TELEVISION MONITOR SUPPORTS TO NEAREST VERTICAL SURFACE SUCH AS A WALL SHALL BE AS INDICATED BELOW UNLESS OTHERWISE NOTED. DISTANCE TO BE MEASURED FROM THE VERTICAL SURFACE TO THE CENTER OF SUPPORT MOUNTING PIPE.

MONITOR SIZE	CLEARANCE DISTANCE
20"	MINIMUM OF 20"
31"	MINIMUM OF 20"
35"	MINIMUM OF 26"



PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

GIBRALTAR DESIGN

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Indianapolis, IN 46260
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Email: info@GibraltarDesign.com
Phone: 317.580.5777 Fax: 317.580.5778

PROJECT 02-580
DATE 04/21/03
COORDINATED BY PCB
DRAWN BY PCB
CHECKED BY MFJ

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DRAWING

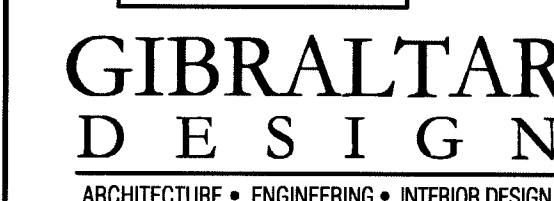
ELECTRICAL DETAILS

PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN NORTH CAMPUS

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N E-602

LAWRENCE
CENTRALIZED
KINDERGARTEN

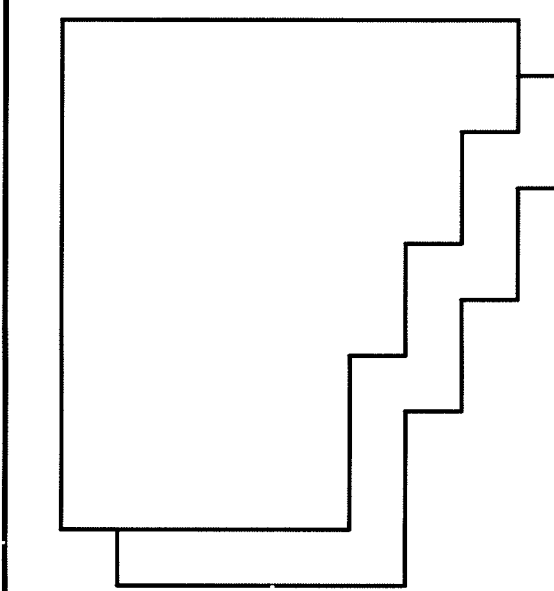
MARION COUNTY, INDIANA



NOTES: (1) PROVIDE A NEW JUNCTION BOX ABOVE THE CEILING, INTERCEPT EXISTING FEEDER CONDUIT AND WIRE AND CONNECT THEM TO THE NEW MAIN DISTRIBUTION PANEL (KMPP).

(2) REMOVE EXISTING WIRE BACK TO SOURCE UNLESS OTHERWISE NOTED. REMOVE ALL CONDUIT BACK TO SOURCE THAT IS NOT CONCEALED IN WALLS OR FLOORS.

E-701



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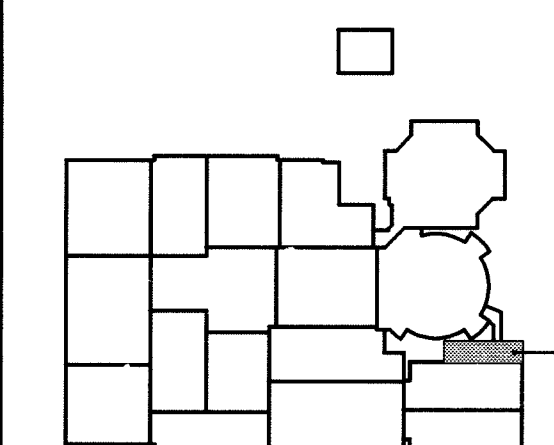
PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



KEY PLAN

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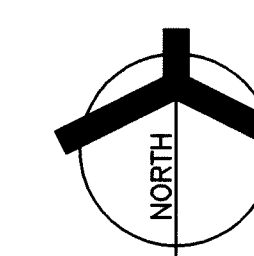
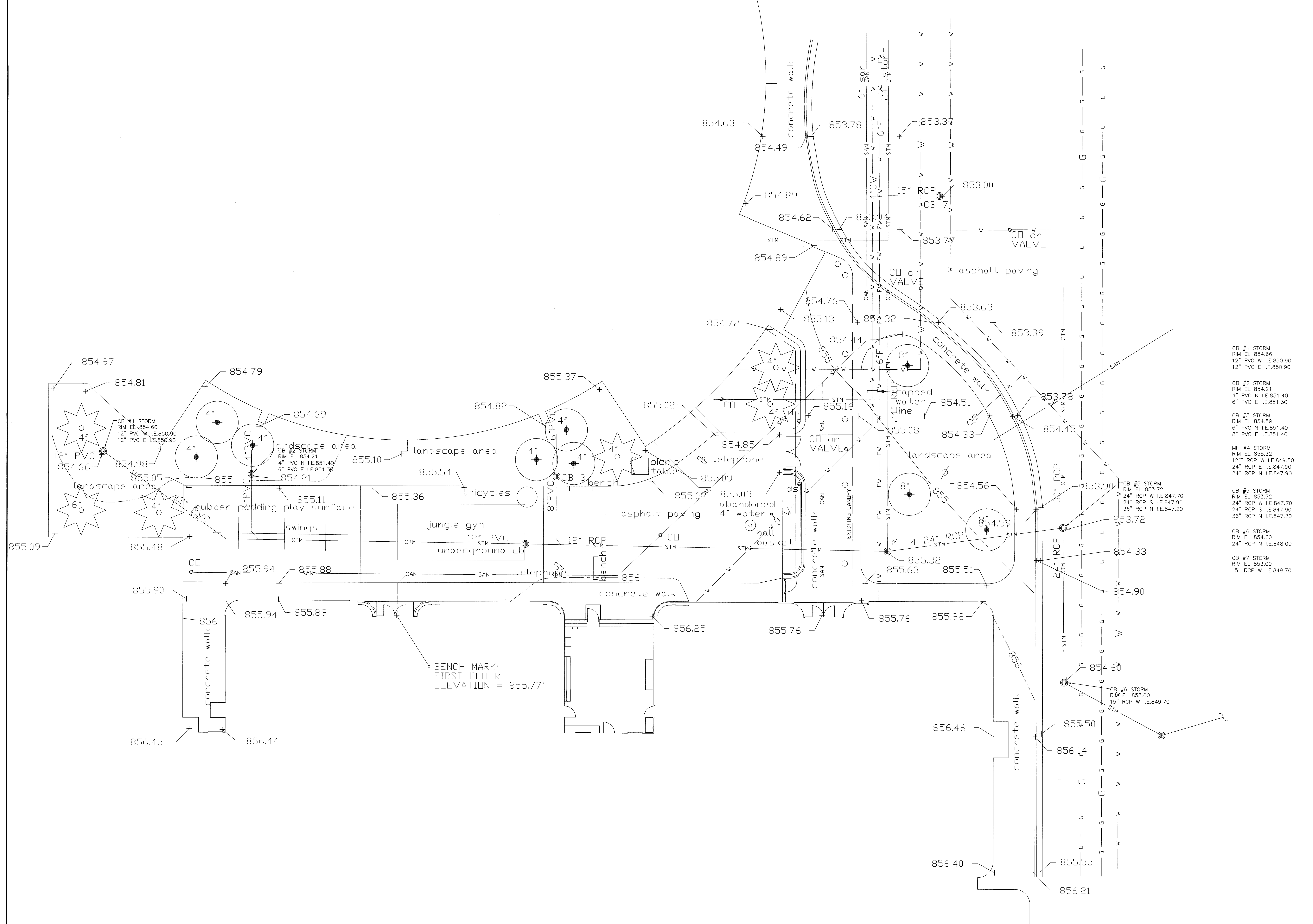
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DRAWING
CIVIL
SITE SURVEY

PROJECT:
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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CIVIL SITE SURVEY

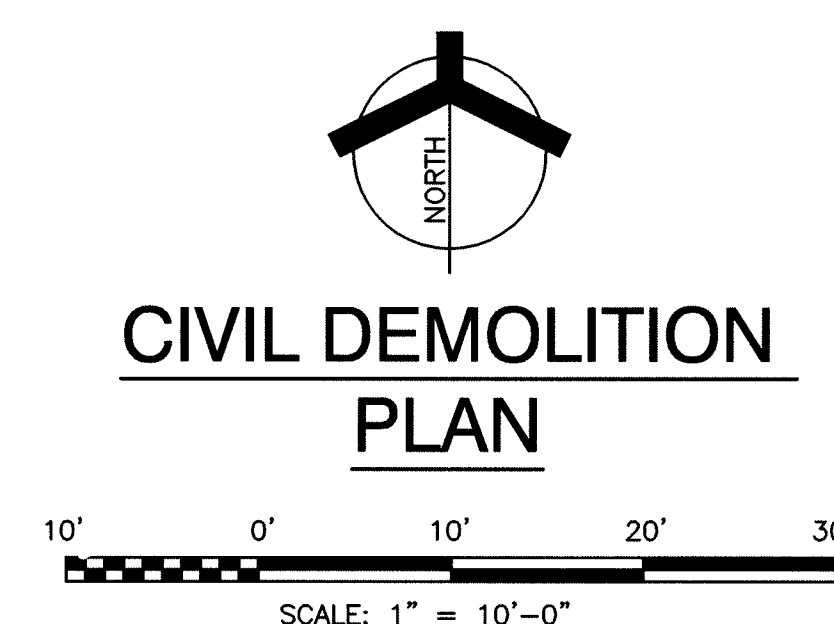
10' 0' 10' 20' 30'
SCALE: 1" = 10'-0"



LAWRENCE
CENTRALIZED
KINDERGARTEN

MARION COUNTY, INDIANA

S CD101



LAWRENCE
CENTRALIZED
KINDERGARTEN

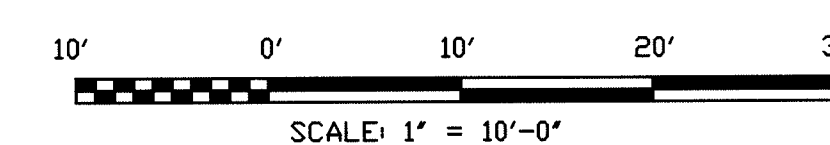
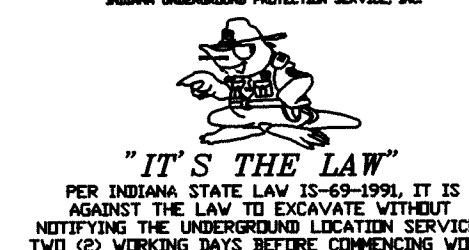
MARION COUNTY, INDIANA



1. CONTRACTOR IS TO VERIFY ELEVATIONS AND NOTIFY ENGINEER OF ANY VARIANCES.
2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF UTILITIES.
3. CONTRACTOR IS TO VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. CONTRACTOR IS TO VERIFY THE INVERT ELEVATION OF EXISTING STORM SEWERS WHICH ARE TO BE CONNECTED WITH NEW STORM SEWERS. NOTIFY ENGINEER OF ANY DISCREPANCIES.

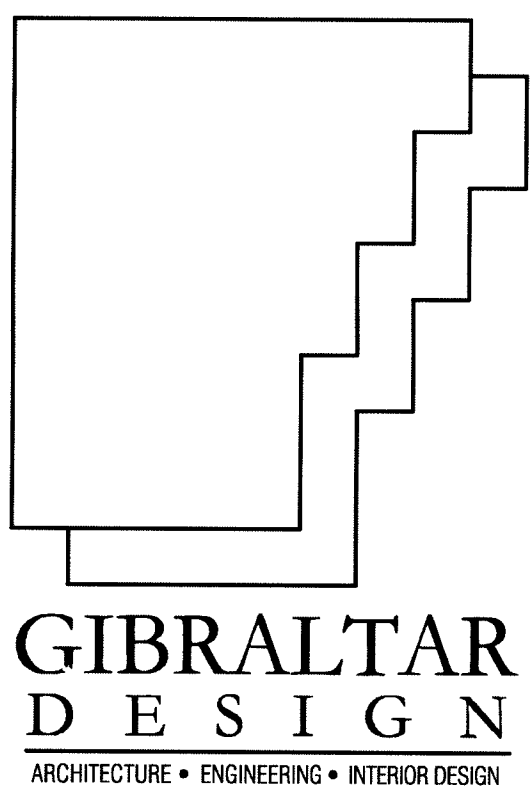
PLAN NOTES:

- (1) INSTALL CATCH BASIN WITH CASTING R-2535. SEE DETAIL _____
- (2) INSTALL 22" OF 12" RCP @1% SLOPE.
- (3) INSTALL 43' OF 12" RCP @1% SLOPE.
- (4) INSTALL 58" OF 12" RCP @1% SLOPE.
- (5) INSTALL 35' OF 12" RCP @1% SLOPE.
- (6) INSTALL 47' OF 24" RCP @1% SLOPE.
- (7) CONTRACTOR TO LOCATE STORM SEWER AT THIS LOCATION AND VERIFY ELEVATIONS PRIOR TO REMOVING EXISTING STORM SEWER.
- (8) CONNECT THE TWO STORM DRAINS AT THIS LOCATION.
- (9) INSTALL CLEAN OUT. SEE DETAIL _____
- (10) MATCH EXISTING GRADE.
- (11) INSTALL DRAIN TO CATCH BASIN.



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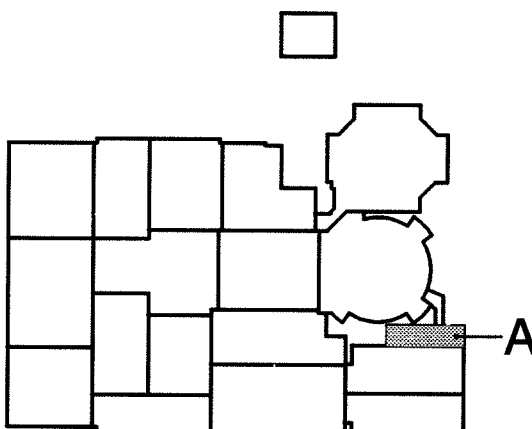
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NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
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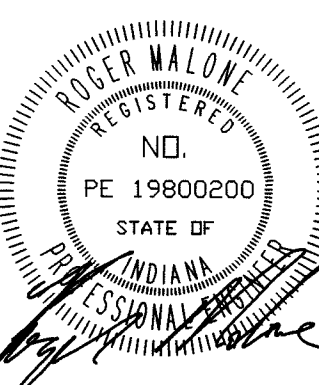
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KB

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DLH

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RM



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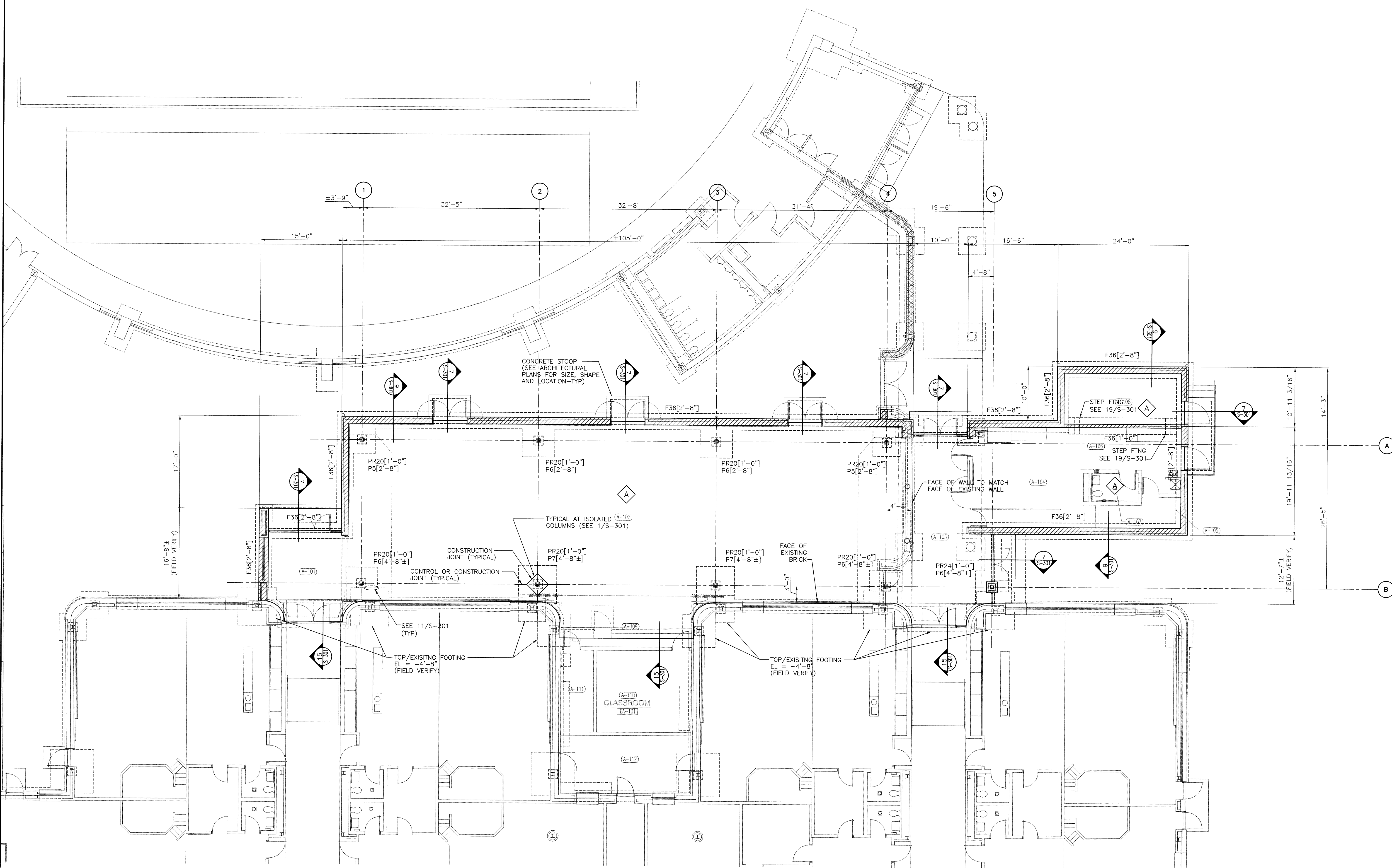
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DRAWING
UNIT "A"
FOUNDATION/SLAB PLAN
(SOUTH CAMPUS)

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
SOUTH CAMPUS

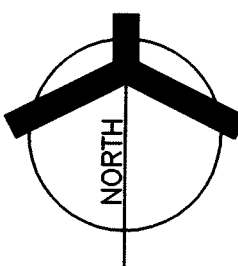
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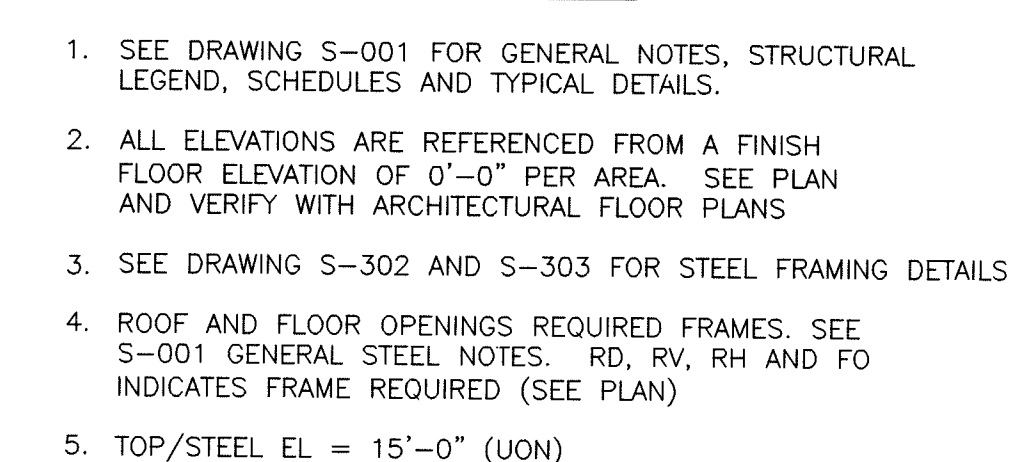
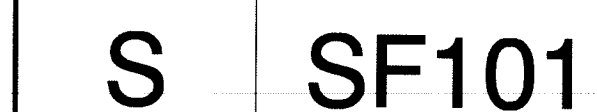
UNIT "A" FOUNDATION/SLAB PLAN

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



FOUNDATION/SLAB PLAN NOTES

- SEE SHEET S-001 FOR GENERAL NOTES, STRUCTURAL LEGEND, SCHEDULES AND TYPICAL DETAILS.
- ALL ELEVATIONS ARE REFERENCED FROM A FINISH FLOOR ELEVATION OF 0'-0" PER AREA. SEE PLAN AND VERIFY WITH ARCHITECTURAL FLOOR PLANS.
- SLAB CONTROL AND CONSTRUCTION JOINTS ARE TO BE LAID OUT PER CONTRACTOR PLANNED SEQUENCE OF COMPLETION. (SEE SPECIFICATION)
- SEE S-301 FOR FOUNDATION AND SLAB DETAILS.
- TOP OF INTERIOR FOOTING ARE TYPICALLY 1'-0" BELOW FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED. (SEE PLAN)





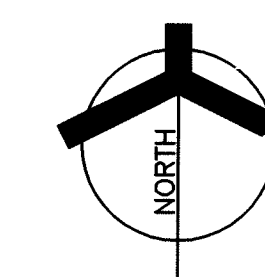
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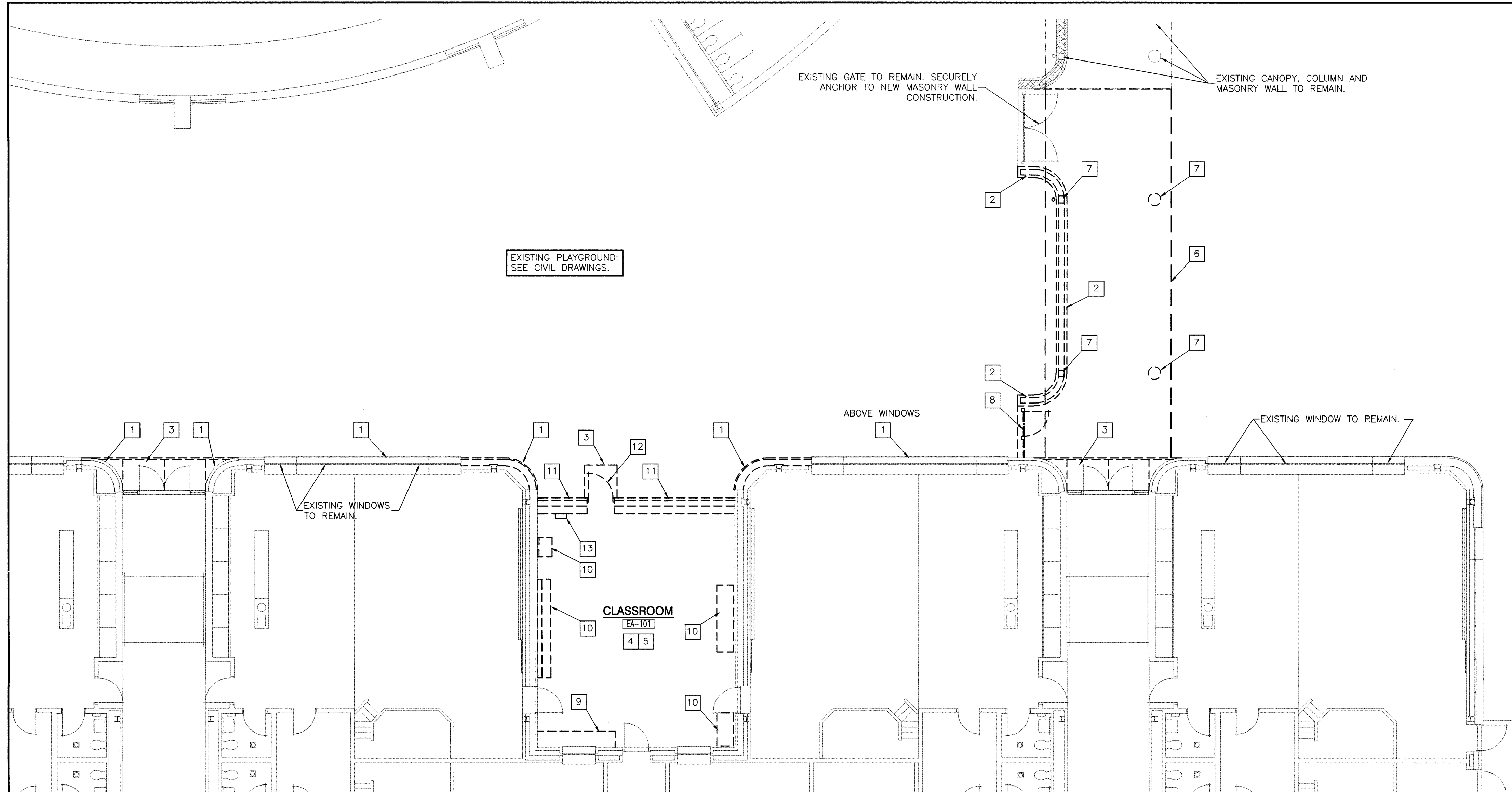
MARION COUNTY, INDIANA



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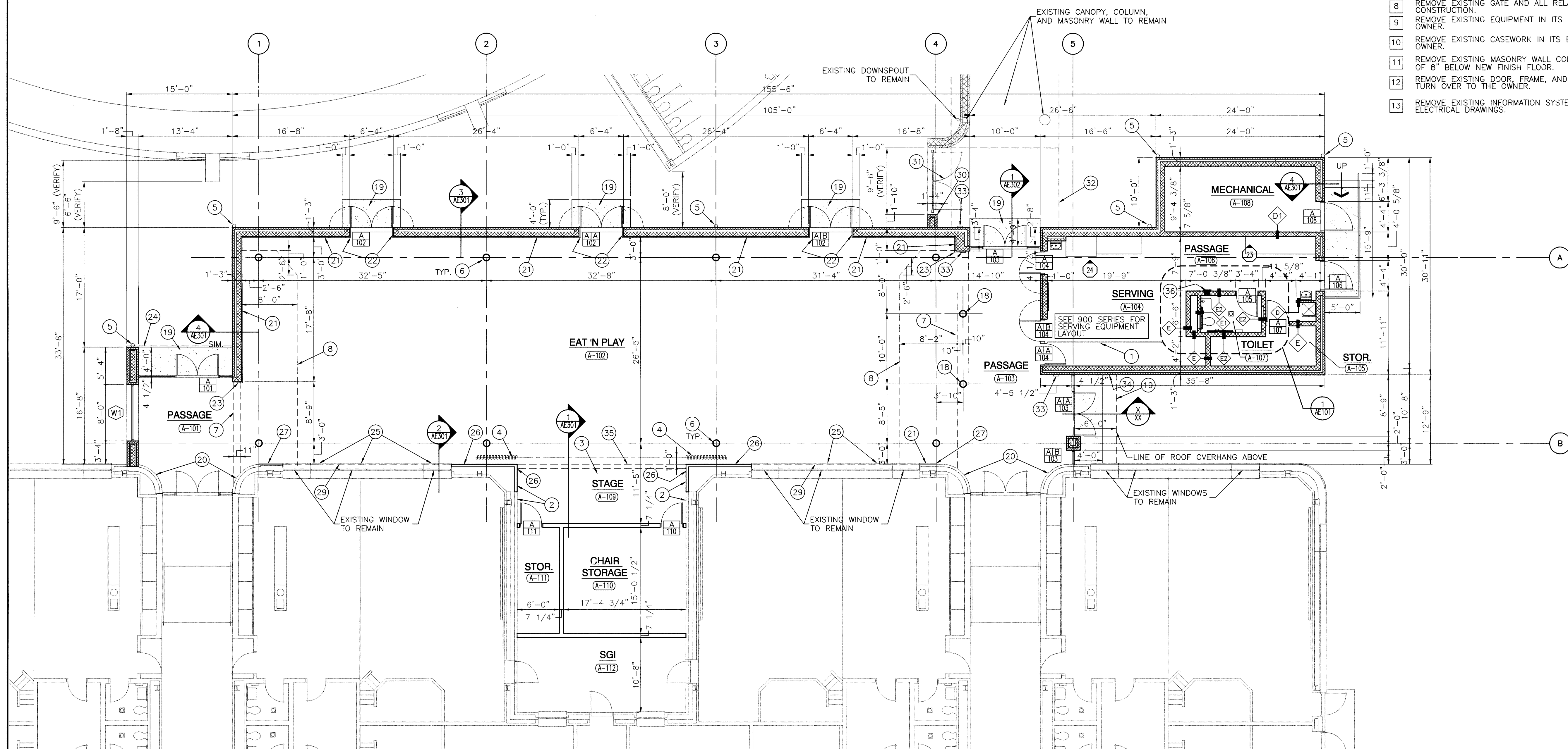
1. SEE DRAWING S-001 FOR NOTES, SCHEDULES AND TYPICAL DETAILS.
2. SEE DRAWING S-303 FOR MASONRY WALL LINTEL DETAILS.
3. SEE DRAWING S-001 FOR MASONRY AND STEEL LINTEL SCHEDULES.
4. VERIFY ALL LINTEL OPENINGS AND ELEVATIONS WITH ARCHITECTURAL PLAN.
5. SL-7 INDICATES SPECIAL LINTEL REQUIRED. SEE DRAWING S-001 FOR SPECIAL LINTEL SCHEDULE.
6. PANEL ? INDICATES MASONRY WALL PANEL. SEE DRAWING S-001 FOR MASONRY PANEL SCHEDULE AND REINFORCEMENT REQUIREMENTS.
7. FOR MULTI-SPAN CONTINUOUS LINTELS MAINTAIN 16" MINIMUM CMU BETWEEN OPENINGS UNLESS OTHERWISE





FIRST FLOOR DEMOLITION PLAN

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



ARCHITECTURAL FIRST FLOOR PLAN

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

ROOM FINISH SCHEDULE

ROOM NO.	DESCRIPTION	FLOOR FINISH	BASE MATERIAL	HEIGHT	WALL MATERIAL	N	S	E	W	WINDOW STOOL	CEILING MATERIAL	HEIGHT	SEE NOTES
A-101	PASSAGE	VCT	VINYL	4"	BRICK VENEER	-	-	-	-	-	ACOUS. BD.	9'-4"	-
A-102	EAT 'N PLAY	VCT	VINYL	4"	LIGHTWEIGHT BLOCK	-	-	-	-	-	EXPOSED STRUCTURE	-	-
A-103	PASSAGE	VCT	VINYL	4"	CONCRETE BLOCK	W	W	W	W	-	ACOUS. BD.	9'-4"	-
A-104	SERVING	PT	PT	5"	BRICK VENEER	W	W	W	W	-	ACOUS. BD.	9'-4"	-
A-105	STORAGE	PT	PT	5"	LIGHTWEIGHT BLOCK	W	W	W	W	-	ACOUS. BD.	9'-0"	-
A-106	PASSAGE	PT	PT	5"	LIGHTWEIGHT BLOCK	W	W	W	W	-	ACOUS. BD.	9'-0"	-
A-107	TOILET	PT	PT	5"	LIGHTWEIGHT BLOCK	W	W	W	W	-	ACOUS. BD.	8'-0"	-
A-108	MECHANICAL	SC	VINYL	4"	LIGHTWEIGHT BLOCK	P	P	P	P	-	EXPOSED STRUCTURE	-	-
A-109	STAGE	VCT	VINYL	4"	GYPSON BOARD	-	-	-	-	-	ACOUS. BD.	9'-2"	-
A-110	CHAIR STORAGE	VCT	VINYL	4"	GYPSON BOARD	P	P	P	P	-	ACOUS. BD.	9'-0"	-
A-111	STORAGE	VCT	VINYL	4"	GYPSON BOARD	P	P	P	P	-	ACOUS. BD.	9'-0"	-
A-112	SGI	CARPET	VINYL	4"	GYPSON BOARD	P	P	P	P	-	ACOUS. BD.	9'-0"	-

NOTE:
1. ABBREVIATIONS: F = WALL FABRIC P = PAINT W = WALL COATING SS = SOLID SURFACE QT = QUARRY TILE SS = SOLID SURFACE
SC = SEALED CONCRETE CT = CERAMIC TILE

GENERAL DEMOLITION NOTES:

FOR GENERAL NOTES, MATERIAL INDICATIONS, LEGEND, SYMBOL, LEGEND, ABBREVIATIONS, ETC. SEE G1004, FLOOR LIFE SAFETY PLAN.

UNLESS NOTED OTHERWISE ON THIS SHEET, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL WORK INDICATED ON THIS SHEET.

ALL EXISTING CONSTRUCTION AFFECTED BY THE DEMOLITION WORK INDICATED ON THIS SHEET SHALL BE PATCHED AND REPAIRED AS REQUIRED TO RECEIVE NEW FINISHES. ALL PATCHING AND REPAIR WORK RELATED TO THE DEMOLITION OR SPECIFICALLY NOTED ON THIS SHEET SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WHO WOULD INSTALL THE PATCHED OR REPAIRED MATERIAL IF IT WERE IN NEW CONSTRUCTION.

CONTRACTORS ENCOUNTERING EXISTING MATERIAL WHICH IS SUSPECTED OF CONTAINING ASBESTOS SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND THE OWNERS REPRESENTATIVE.

ALL LOOSE EQUIPMENT TO BE REMOVE AND RETURN TO OWNER.
ALL PAINTED CEILING TILE TO BE REMOVE AND RETURN TO OWNER.

DEMOLITION PLAN NOTES:

(APPLY TO THIS SHEET ONLY)

- REMOVE EXISTING INSULATED METAL PANELS & GYPSON BOARD SHEATHING IN ITS ENTIRETY PRIOR TO NEW CONSTRUCTION. SALVAGED PANELS AS REQUIRED FOR NEW WORK.
- REMOVE EXISTING MASONRY WALL TO 8" MIN. BELOW NEW FINISH FLOOR.
- REMOVE EXISTING CONCRETE STOOP & ITS FOUNDATION IN ITS ENTIRETY.
- REMOVE EXISTING CEILING GRID IN ITS ENTIRETY. RETURN PAINTED TILES TO THE OWNER.
- REMOVE EXISTING VCT FLOORING AND 8" VINYL BASE IN ITS ENTIRETY.
- REMOVE EXISTING ROOF CONSTRUCTION IN ITS ENTIRETY. SALVAGE FASCIA, GUTTER, AND DOWNSPOUTS FOR RECONSTRUCTION OF CANOPY CONNECTION TO NEW ADDITION.
- FOR REMOVAL OF EXISTING STEEL FRAMING: SEE STRUCTURAL DRAWINGS.
- REMOVE EXISTING COLUMN AND FOUNDATION. TO A MINIMUM OF 8" BELOW NEW FINISH FLOOR.
- REMOVE EXISTING GATE AND ALL RELATED HARDWARE PRIOR TO NEW CONSTRUCTION.
- REMOVE EXISTING EQUIPMENT IN ITS ENTIRETY. TURN OVER TO OWNER.
- REMOVE EXISTING CASEWORK IN ITS ENTIRETY. TURN OVER TO OWNER.
- REMOVE EXISTING MASONRY WALL CONSTRUCTION. TO A MINIMUM OF 8" BELOW NEW FINISH FLOOR.
- REMOVE EXISTING DOOR, FRAME, AND ALL RELATED HARDWARE. TURN OVER TO THE OWNER.
- REMOVE EXISTING INFORMATION SYSTEM IN ITS ENTIRETY. SEE ELECTRICAL DRAWINGS.

GENERAL NOTES:

FOR GENERAL NOTES, MATERIAL INDICATIONS, LEGEND, SYMBOL, LEGEND, ABBREVIATIONS, ETC. SEE G1004, FLOOR LIFE SAFETY PLAN.

ALL EXPOSED OUTSIDE CORNER OF INT. MASONRY WALL ARE TO BE BULLNOSE.

MISCELLANEOUS CASEWORK ELEVATION SYMBOL - SEE SHEET A801 FOR MISCELLANEOUS CASEWORK ELEVATIONS.

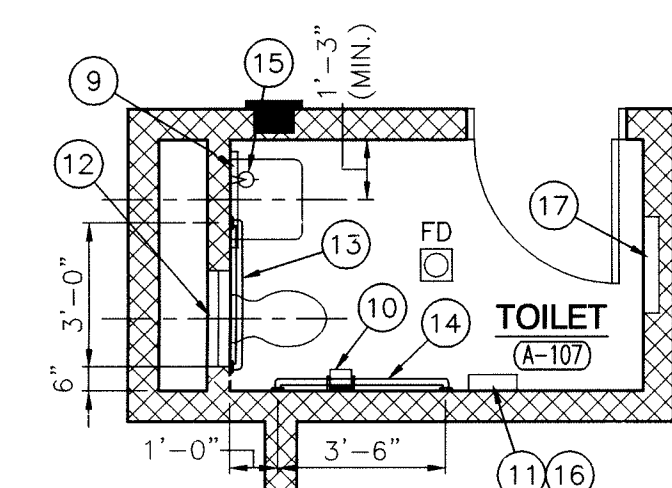
ALL INTERIOR WALLS SHALL BE TYPE "A" UNLESS NOTED OTHERWISE. SEE G1004 FOR WALL TYPE REFERENCE.

E2 8" CMU

E1 6" CMU

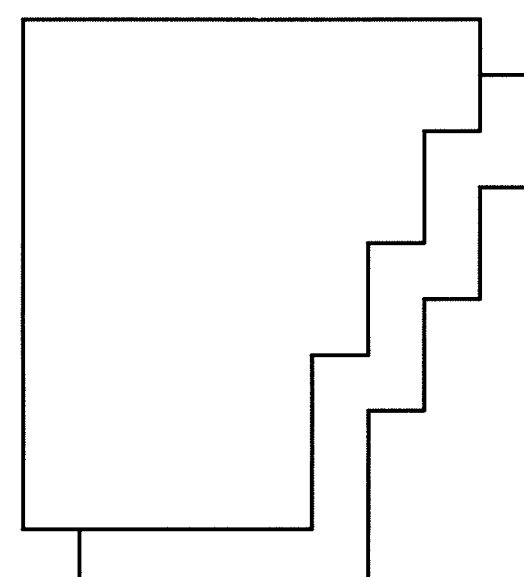
PLAN NOTES: (APPLY TO THIS SHEET ONLY)

- 16'-0" W x 2'-6" H ALUMINUM DIVIDER RAIL
- ALIGN NEW FINISHED WALL WITH EXISTING WALL CONSTRUCTION.
- LINE OF PORTABLE RISER BY OWNER.
- STAGE CURTAIN AND TRACK.
- 4" ROUND ALUMINUM DOWNSPOUT
- 1'-0" DIAMETER PREFABRICATED COLUMN COVER (AROUND STEEL TUBE COLUMN).
- CEILING BULKHEAD @ 9'-0" A.F.F.
- CEILING BULKHEAD @ 9'-4" A.F.F.
- 2'-0" W x 3'-0" H MIRROR WITH BOTTOM OF REFLECTIVE SURFACE MOUNTED AT 40" A.F.F.
- TOILET PAPER HOLDER BY OWNER.
- PAPER TOWEL DISPENSER BY OWNER.
- 24" x 24" ACCESS PANEL
- 3'-0" HANDICAPPED GRAB BAR @ 36" A.F.F.
- 3'-6" HANDICAPPED GRAB BAR @ 36" A.F.F.
- SOAP DISPENSER BY OWNER.
- SEMI-RECESSED WASTE RECEPTACLE
- CONVECTOR: SEE MECHANICAL DRAWINGS
- 1'-0" x 8" PREFABRICATED COLUMN COVER (AROUND 4x4x4 CHANNEL ANCHORED SECURELY TO FLOOR SLAB AND STRUCTURE ABOVE). COLUMN COVER IS TO EXTEND 4" MINIMUM ABOVE UNDERSIDE OF BULKHEAD.
- CONCRETE VOID SLAB
- EXISTING CURVED FACE BRICK WALLS TO REMAIN.
- SAFETY CUSHION WAINSCOT THIS WALL.
- SAFETY CUSHION WAINSCOT TO RETURN TO DOOR FRAME.
- SAFETY CUSHION WAINSCOT TO END HERE, 8" BEYOND CORNER OF WALL.
- LINE OF ROOF OVERHANG ABOVE.
- PROVIDE SAFETY WAINSCOT ON EXISTING FACE BRICK BELOW WINDOW SILL.
- ALIGN 5/8" GYPSON BOARD AND METAL STUDS WITH EXISTING FACE BRICK BELOW. PROVIDE "J" MOLD AND SEALANT AT JOINT.
- PROVIDE SAFETY CUSHION WAINSCOT FROM CORNER OF WALL TO EDGE OF EXISTING WINDOW JAMB.
- SAFETY CUSHION WAINSCOT TO END HERE, EVEN WITH CENTERLINE OF COLUMN.
- ALUMINUM HANDRAIL
- FACE BRICK/CONCRETE BLOCK WALL TO MATCH EXISTING COURTYARD WALL. MATCH FACE BRICK, COURSEING, SOLDIER COURSEING, WALL HEIGHT, WALL THICKNESS, MORTAR COLOR, ETC.
- EXISTING GATE TO REMAIN. SECURELY ANCHOR TO NEW MASONRY WALL CONSTRUCTION.
- PROVIDE CANOPY CONSTRUCTION TO MATCH EXISTING. MODIFY AND RE-USE SALVAGED FASCIA, GUTTER, AND DOWNSPOUTS AS POSSIBLE. OTHERWISE PROVIDE NEW TO MATCH EXISTING. PROVIDE E1.5 SOFFIT TO MATCH APPEARANCE OF EXISTING CEMENT PLASTER SOFFIT.
- FOR STEEL FRAMING: SEE STRUCTURAL DRAWINGS.
- PUSH PAD FOR AUTOMATIC DOOR: SEE ELECTRICAL DRAWINGS
- DATE STONE
- BULKHEAD @ +9'-2" A.F.F.
- SEMI-RECESSED FIRE EXTINGUISHER CABINET



ENLARGED TOILET PLAN

SCALE: 1/4" = 1'-0"



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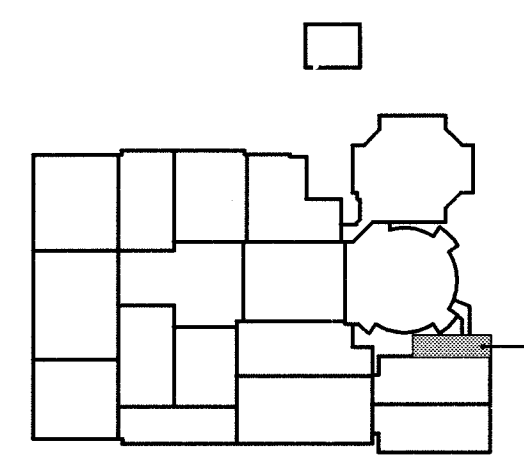
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NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



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JDH

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SCP

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DRAWING
DEMOLITION PLAN &
UNIT "A" FIRST FLOOR PLAN

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

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PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
SOUTH CAMPUS

SHEET

AE201



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

NOTE:
REMOVE EXISTING INSULATED METAL PANELS AS REQUIRED FOR NEW CONSTRUCTION.
SALVAGE EXISTING PANELS. UPON COMPLETION OF NEW WORK EITHER MODIFY EXISTING
PANELS AND REINSTALL, OR PROVIDE NEW INSULATED METAL PANELS TO MATCH
EXISTING COLOR AND FINISH. PROVIDE COMPLETE WEATHER PROTECTION OF EXISTING
EXTERIOR CLASSROOM WALLS DURING CONSTRUCTION.



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



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



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

(APPLY TO THIS SHEET ONLY)

- | | |
|----|--|
| 1 | REMOVE EXTERIOR INSULATED METAL PANELS, & GYPSUM BOARD SHEATHING IN ITS ENTIRETY PRIOR TO NEW CONSTRUCTION. SALVAGE PANELS AS REQUIRED FOR NEW WORK. |
| 2 | REMOVE EXTERIOR MASONRY WALL TO 8" MIN. BELOW NEW FINISH FLOOR. |
| 3 | REMOVE CONCRETE STOOP AND FOUNDATION IN ITS ENTIRETY. |
| 4 | REMOVE EXISTING INSULATED METAL PANELS AS REQUIRED. MODIFY AS REQUIRED AND REINSTALL (OR PROVIDE NEW INSULATED METAL PANELS TO MATCH EXISTING COLOR AND FINISH). |
| 5 | NOT USE |
| 6 | REMOVE EXISTING ROOF CONSTRUCTION IN ITS ENTIRETY. SALVAGE FASCIA, GUTTER, AND DOWNSPOUTS FOR RECONSTRUCTION OF CANOPY CONNECTION TO NEW ADDITION. |
| | FOR REMOVAL OF EXISTING STEEL FRAMING: SEE STRUCTURAL DRAWINGS |
| 7 | REMOVE EXISTING COLUMN AND FOUNDATION TO A MINIMUM OF 8" BELOW NEW FINISH FLOOR. |
| 8 | REMOVE EXISTING GATE AND ALL RELATED HARDWARE PRIOR TO NEW CONSTRUCTION. |
| 9 | NOT USE |
| 10 | NOT USE |
| 11 | REMOVE EXISTING MASONRY WALL CONSTRUCTION TO A MINIMUM OF 8" BELOW NEW FINISH FLOOR. |
| 12 | REMOVE EXISTING DOOR, FRAME, AND ALL RELATED HARDWARE. TURN OVER TO OWNER. |

FOR REMOVAL OF EXISTING STEEL FRAMING: SEE STRUCTURAL DRAWINGS

REMOVE EXISTING COLUMN AND FOUNDATION TO A MINIMUM OF 8" BELOW
NEW FINISH FLOOR.

REMOVE EXISTING GATE AND ALL RELATED HARDWARE PRIOR TO NEW CONSTRUCTION.

NOT USE
NOT USE

REMOVE EXISTING MASONRY WALL CONSTRUCTION TO A MINIMUM OF 8"

REMOVE EXISTING DOOR, FRAME, AND ALL RELATED HARDWARE. TURN O

LAWRENCE
CENTRALIZED
KINDERGARTEN

MARION COUNTY, INDIANA

1



SCALE: 3/4" = 1'-0"



SCALE: 3/4" = 1'-0"

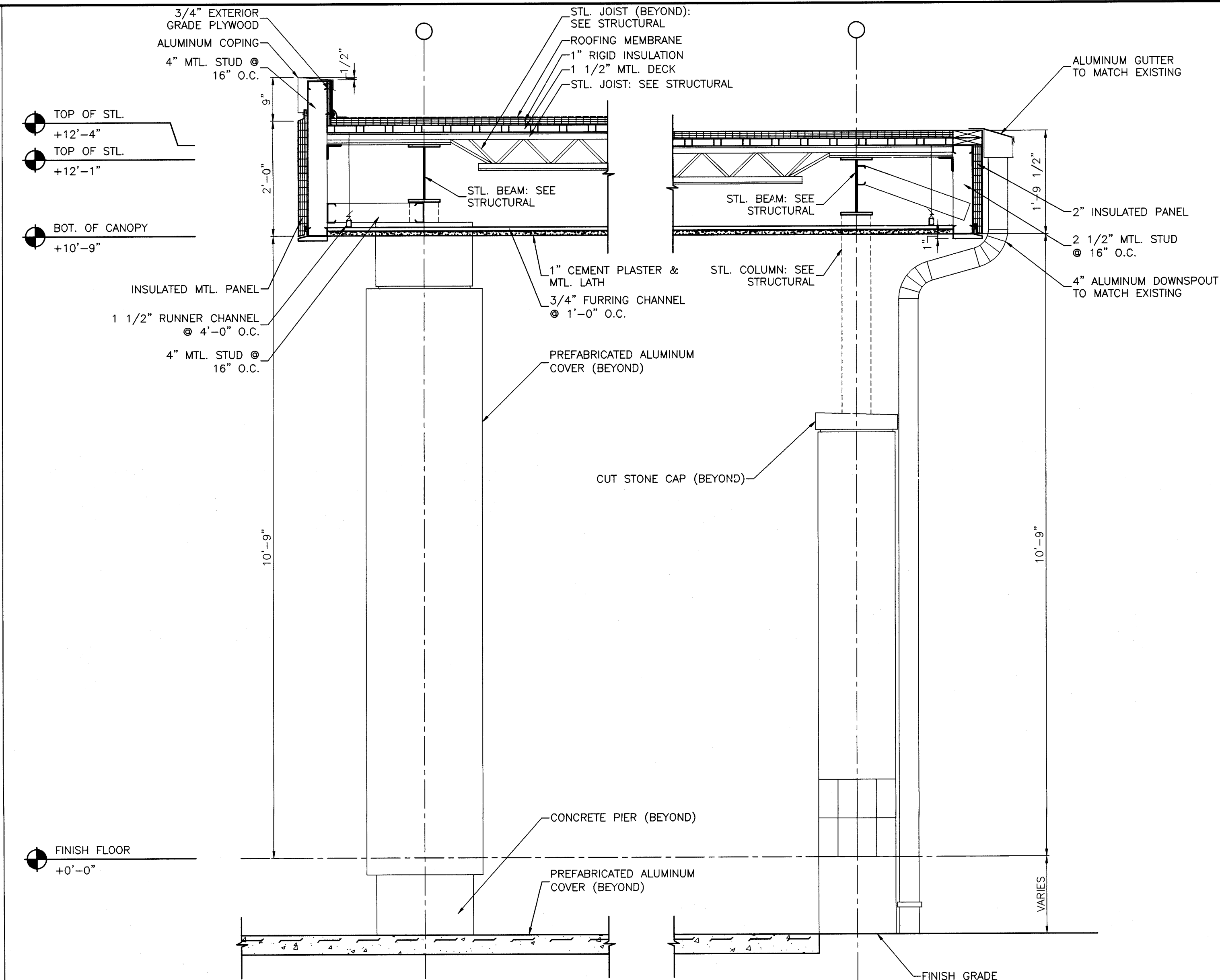


SCALE: 3/4" = 1'-0"



WALL
CONCRETE 24" THICK - 11.5

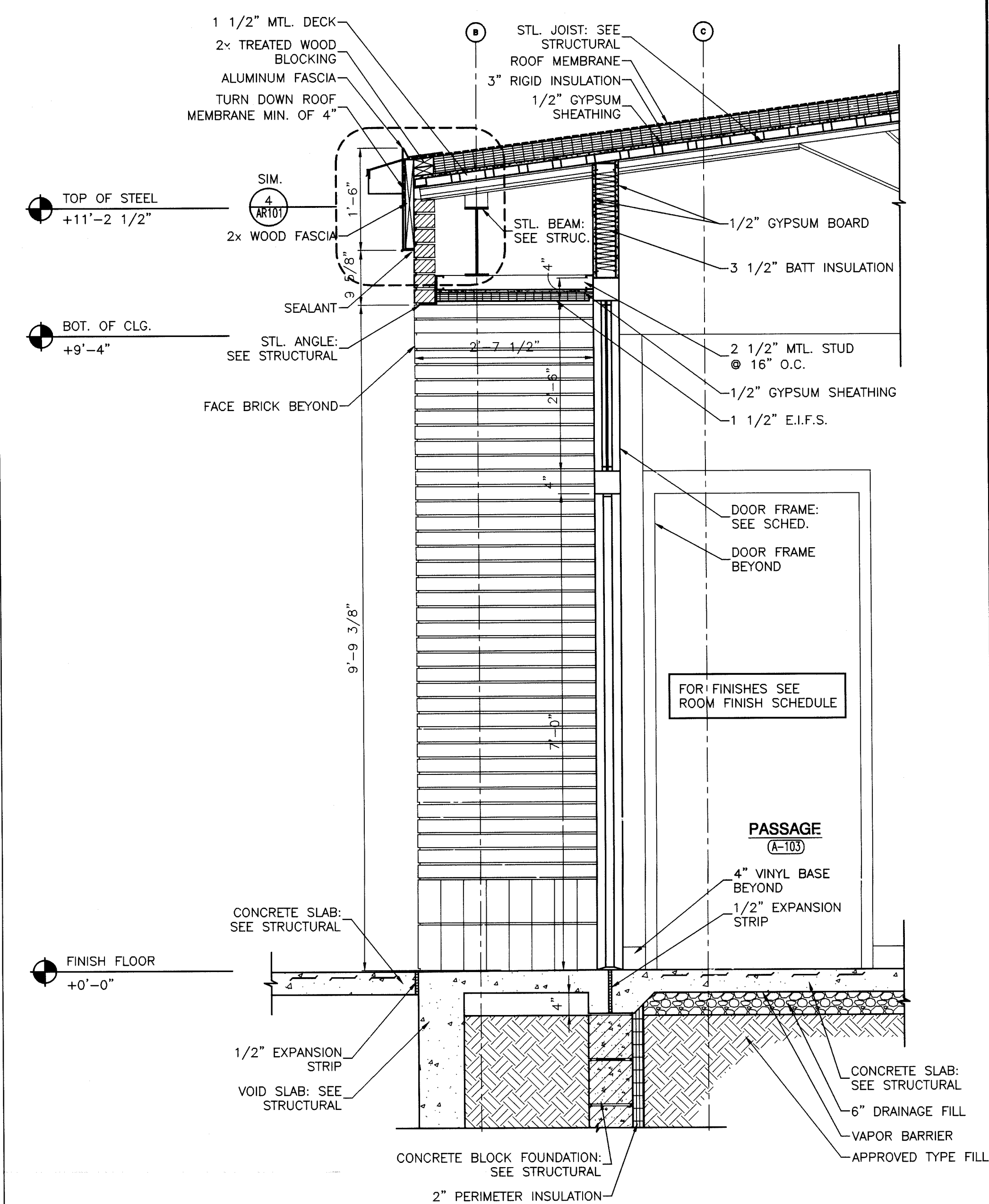
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WALL SECTION

SCALE: 3/4" = 1'-0"

2
AE302



WALL SECTION

SCALE: 3/4" = 1'-0"

1
AE302

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PROJECT

**LAWRENCE
CENTRALIZED
KINDERGARTEN**

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

GIBALTAR DESIGN

9102 N. Meridian St., Ste. 300
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PROJECT
02-580

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04/21/03

COORDINATED BY
LDH

DRAWN BY
SCP

CHECKED BY
LDH

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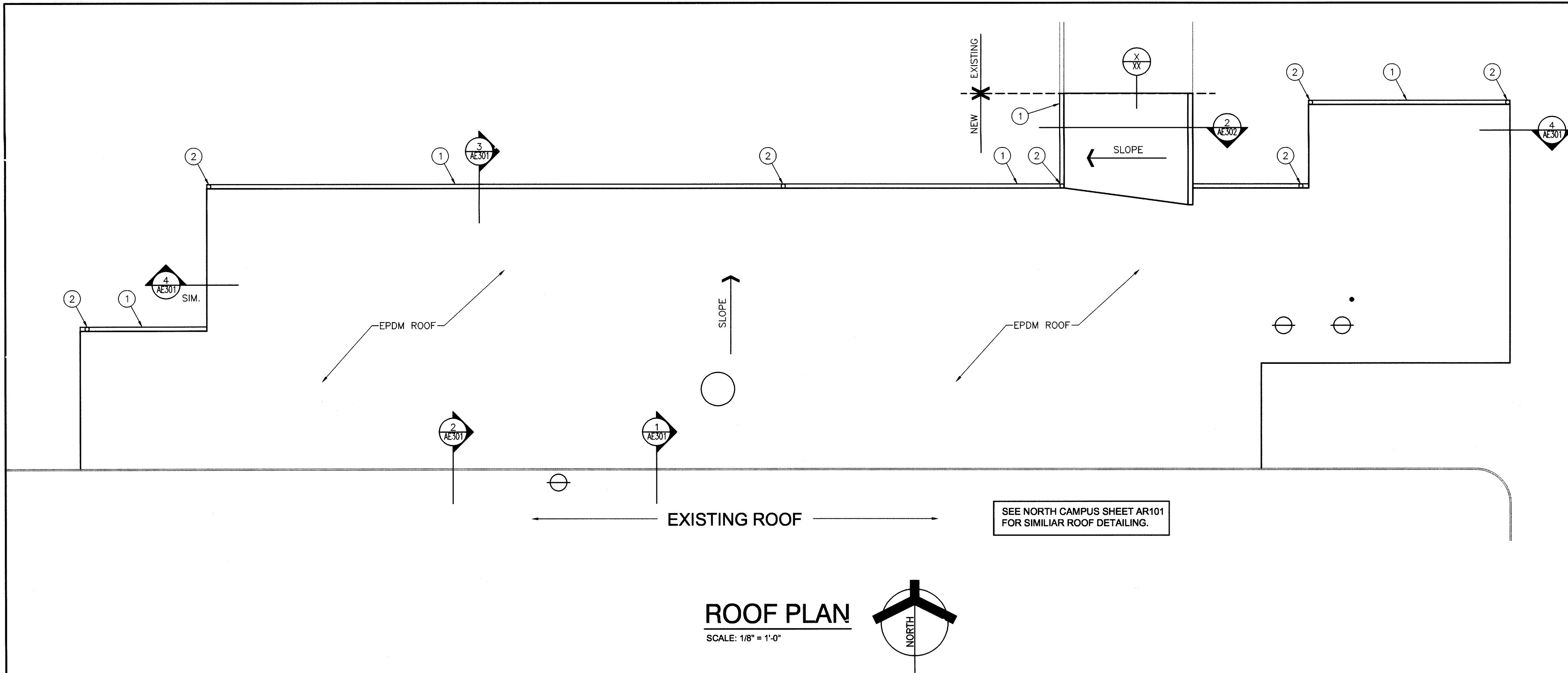
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ROOF LEGEND:

- RELIEF VENT
- ⊕ EXHAUST FAN
- PLUMBING VENT

WARNING:

THERE MAY BE LOCATIONS ON THE EXISTING ROOF WHERE THE EXISTING ROOF DECK MAY NOT BE STRUCTURALLY SOUND. CONTRACTORS SHOULD USE EXTREME CAUTION IN WORKING THESE ROOF AREAS TO MAINTAIN SAFE WORKING CONDITIONS.

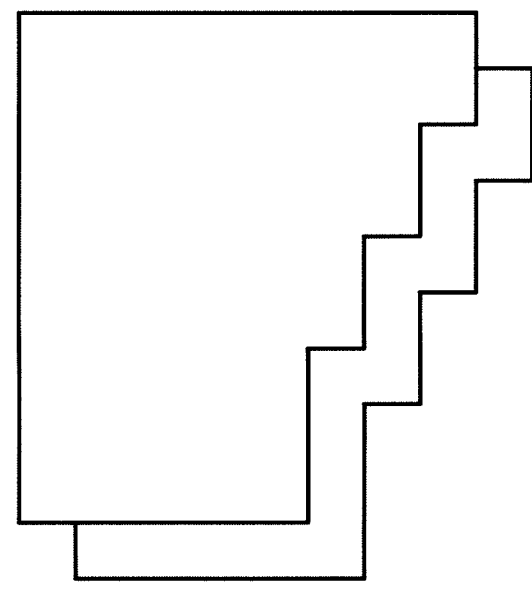
THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ALL DAMAGE CAUSED BY THE IMPROPER STORAGE OR STACKING OF ROOFING MATERIALS.

PLAN NOTES: (APPLY TO THIS SHEET ONLY)

- 6" ALUMINUM GUTTER
- 4" ALUMINUM DOWNSPOUTS

ROOFING NOTES:

- ALL DIMENSIONS INDICATED ON THE ROOF PLAN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ACCURATE FIELD MEASUREMENTS FOR THE EXECUTION OF HIS WORK AND PRIOR TO ANY FABRICATION OF THE VARIOUS MATERIALS.
- LOCATION AND QUANTITY OF ALL ROOF DRAINS, FLUES, VENTS, POWER AND GRAVITY VENTILATORS, ETC., SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
- DEMOLITION AND REMOVAL OPERATIONS ARE TO BE PERFORMED CAREFULLY AND ALL PORTIONS OF THE BUILDING SHALL BE PROTECTED DURING THESE OPERATIONS. ITEMS TO BE REUSED AND REINSTALLED ARE TO BE CAREFULLY REMOVED AND STORED. DAMAGES INCURRED DURING REMOVAL OR STORAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- EXTEND ALL PLUMBING VENTS SO THAT THE TOP IS A MINIMUM OF 12" ABOVE THE ROOFING MEMBRANE.
- REMOVE ALL POWER VENTILATORS, FANS AND GRAVITY VENTILATORS. REPLACE ALL DETERIORATED, LOOSE, OR FAULTY WOOD BLOCKING. REPLACE AND EXTEND CURBS WITH NEW TREATED WOOD BLOCKING WITH TOP AT 12" MINIMUM ABOVE THE NEW ROOFING MEMBRANE. REINSTALL FANS AND VENTILATORS WITH "KORFUND ELASTO-RIB" VIBRATION ELIMINATOR, SET ON THE CURB TOP OF ALL POWER DRIVEN FANS AND VENTS.
- FLASHING OF ALL VENTS, FAN CURBS, MASONRY WALLS, FLUES, DRAINS, FASCIA, ETC., SHALL BE PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS AND DRAWINGS, AND WITH ROOFING MANUFACTURERS STANDARD DETAILS AND SPECIFICATIONS.
- REMOVE ALL EXISTING ROOF GRAVEL, RESIDUE, AND ALL PROJECTIONS WHICH WOULD PREVENT THE NEW ROOF INSULATION FROM LAYING FLAT OVER THE EXISTING ROOF SURFACES.
- REMOVE AND CLEAN ROOF DRAIN STRAINERS AND CLAMP RINGS. REINSTALL AFTER NEW ROOF INSULATION AND ROOFING MEMBRANE ARE IN PLACE. ANY BROKEN OR MISSING ROOF DRAIN STRAINER SHALL BE REPLACED WITH A NEW STRAINER.



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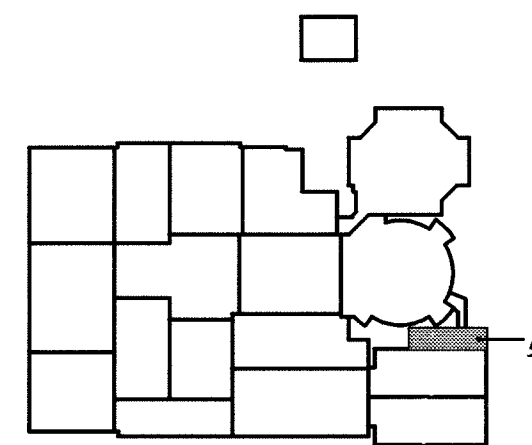
PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



KEY PLAN

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PROJECT
02-580

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COORDINATED BY
JDH

DRAWN BY
SCP

CHECKED BY
JDH

ARCHITECT

STATE OF
INDIANA

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OF LAWRENCE TOWNSHIP**

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DRAWN BY
CSZ

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 NUMBER _____

AGN DLB *Daryl L. Beers*

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DRAWING
FIRE PROTECTION
FLOOR PLAN & DETAILS

PROJECT
LAWRENCE CENTRALIZED KINDERGARTEN
NORTH & SOUTH CAMPUS ADDITIONS

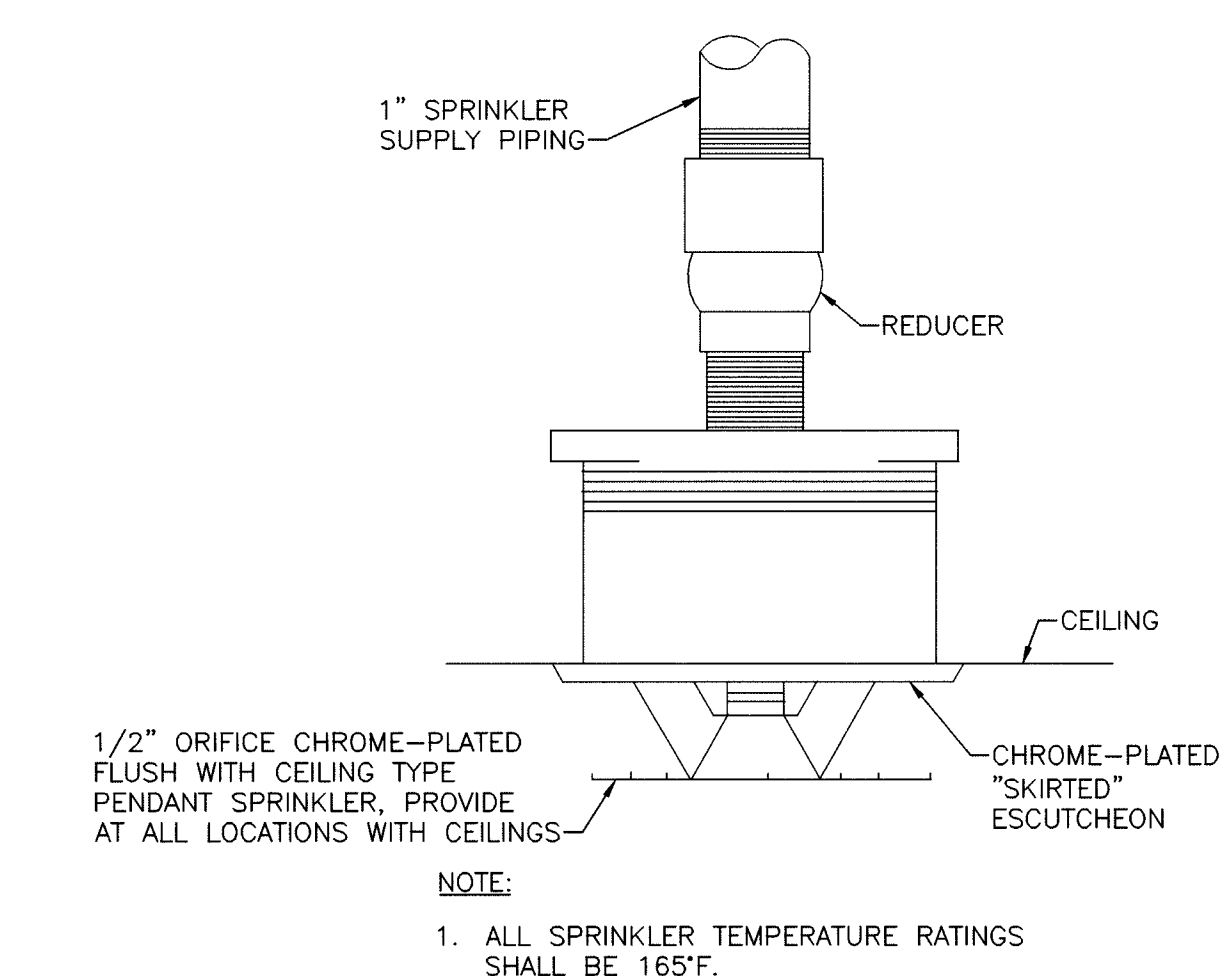
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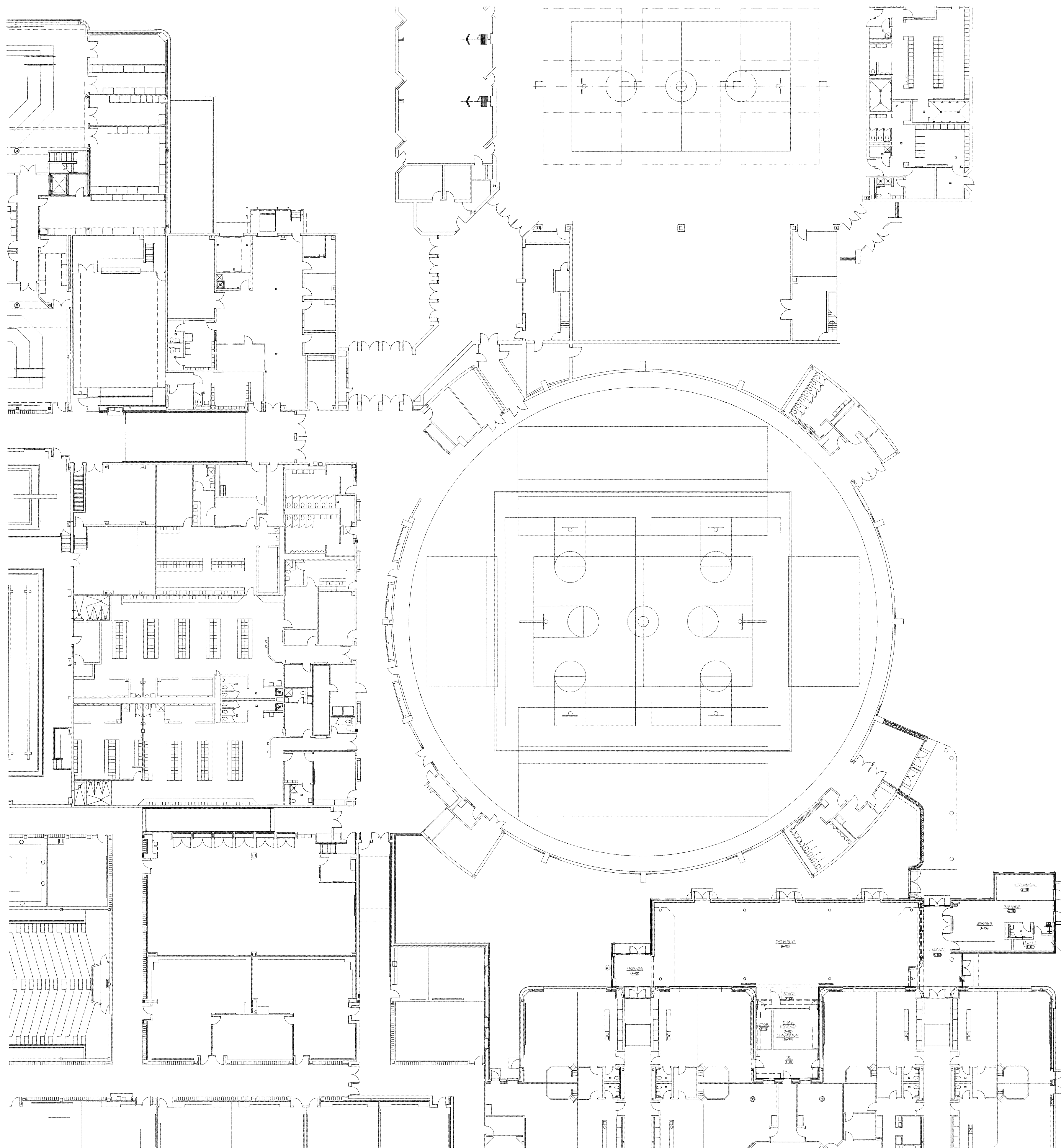
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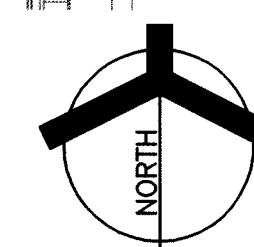
1. PROVIDE NEW FIRE SPRINKLERS FOR NEW ADDITION. REFER TO ELECTRICAL LIGHTING PLANS AND HVAC PLANS FOR LIGHTING, DUCT AND DIFFUSER, ETC. LAYOUTS.
2. SPRINKLER WORK SHALL BE PERFORMED BY A FIRE PROTECTION CONTRACTOR APPROVED BY THE OWNER.
3. THE FIRE SPRINKLER SYSTEM SHALL BE DESIGNED PER NFPA 13, STATE REGULATIONS, OWNER'S REQUIREMENTS, OWNER INSURANCE UNDERWRITER AND LISTED REQUIREMENTS, AND NATIONAL INSTITUTE OF HEALTH.
4. SPRINKLERS SHALL BE CENTERED TWO (2) WAYS IN CEILING TILES IN ROOMS WITH CEILINGS.
5. SPRINKLER CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.
6. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED PER NFPA 13.

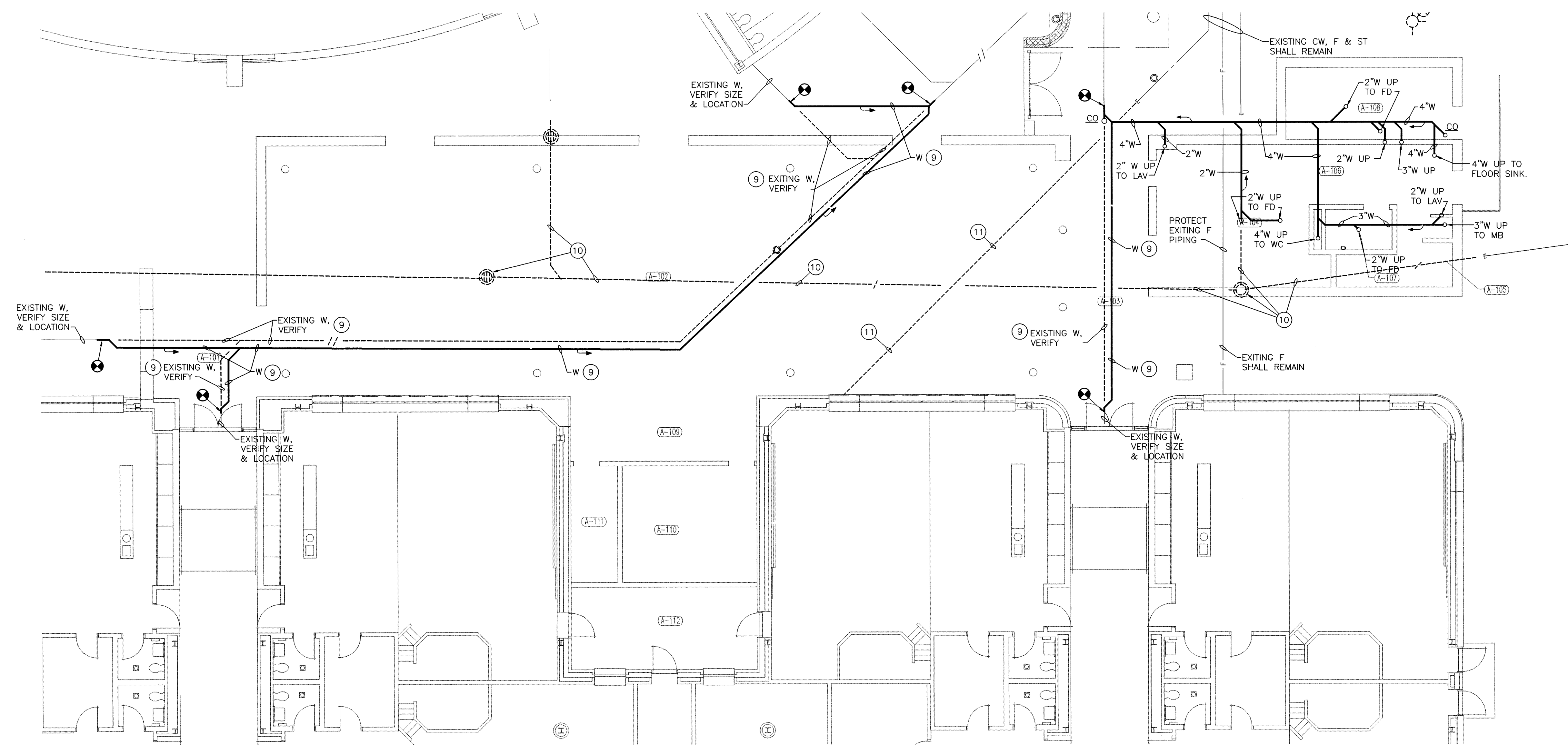


NOT TO SCALE



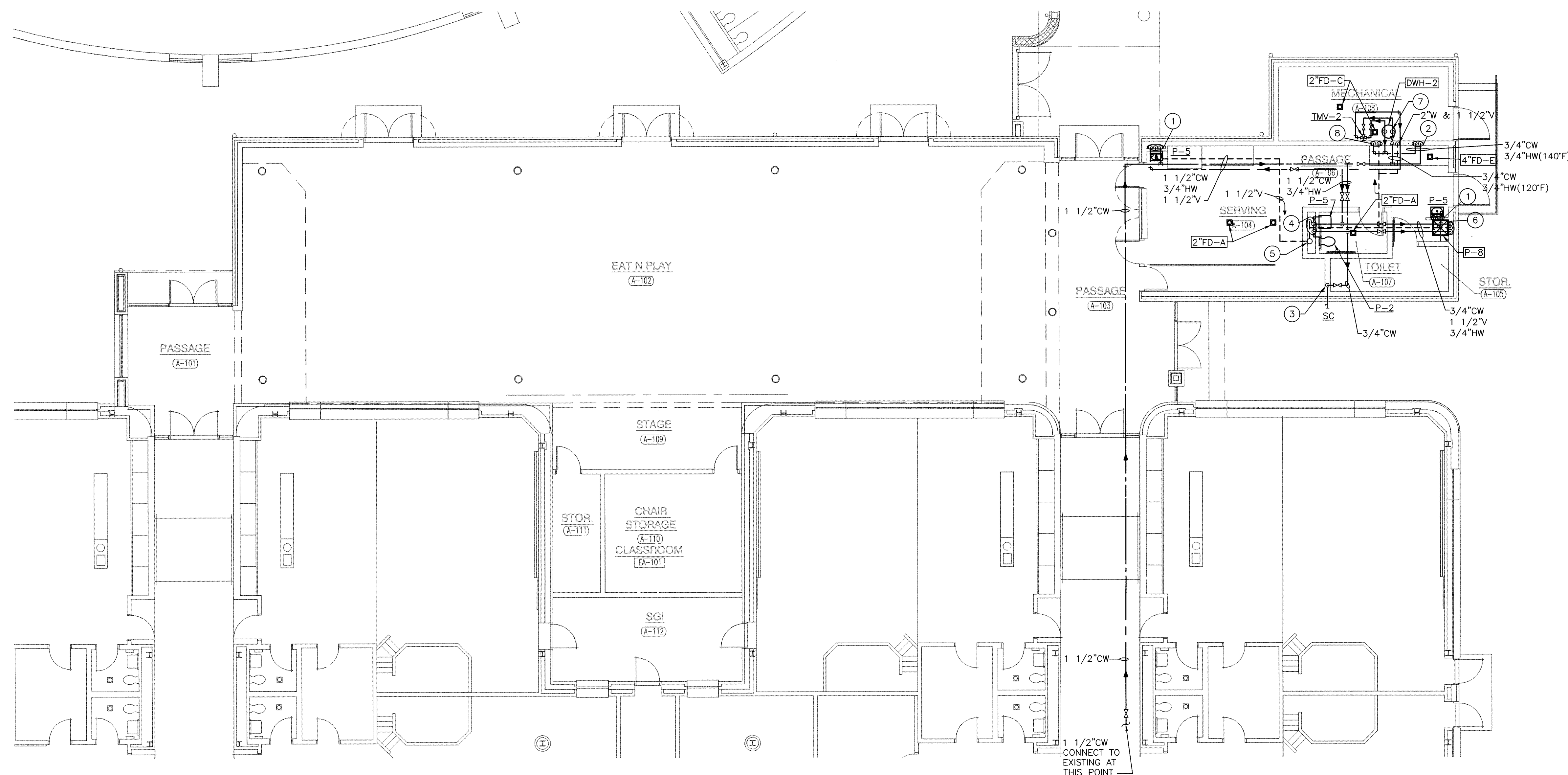
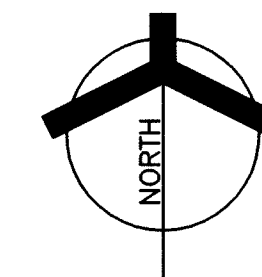
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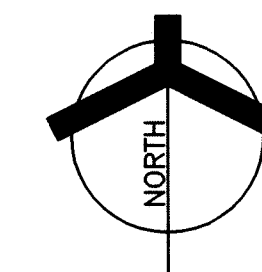
PLUMBING FOUNDATION PLAN

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



PLUMBING FIRST FLOOR PLAN

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

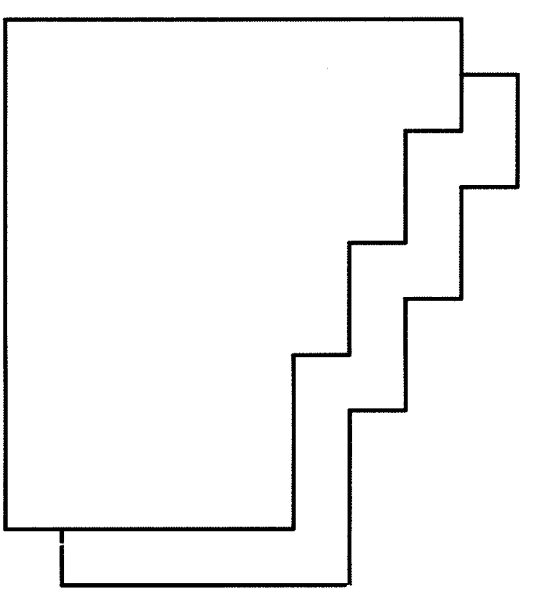


GENERAL NOTE:

1. SEE SHEET P-001 FOR PLUMBING LEGEND, GENERAL NOTES, DETAILS AND SCHEDULES.

PLAN NOTES:

- 1 3/4"HW, 3/4"CW, 1 1/2"WASTE DROP FOR CONNECTION TO LAV 1 1/2" VENT UP.
- 2 3/4"HW(140°F), 3/4"CW DROP IN WALL FOR CONNECTION TO 3-COMPARTMENT SINK. SEE KITCHEN EQUIPMENT DRAWINGS FOR EXACT LOCATION.
- 3 3/4"CW DOWN IN WALL FOR CONNECTION TO SILL COCK.
- 4 1 1/2"CW WITH WHA TYPE "A", AND 3/4"HW DROP IN CHASE FOR CONNECTION TO WC AND LAV. 1 1/2" WASTE AND 1 1/2"V FROM LAV, 4" WASTE DOWN AND 2" VENT, FROM WC.
- 5 4" WASTE DOWN, 2" VENT UP, 4" VTR.
- 6 3/4"HW, 3/4"CW, 3" WASTE, AND 1 1/2" VENT DOWN.
- 7 3/4"HW AND 3/4"CW DROP AND 1 1/2" VENT FROM BELOW.
- 8 3" WASTE AND 2" VENT DOWN. 3/4"HW(140°F) DROP FOR CONNECTION TO DISHWASHER.
- 9 REMOVE AND REPLACE EXISTING SANITARY WITH NEW CAST IRON WASTE PIPING, REPLACE WITH SAME SIZE AS EXISTING AND MATCH SLOPE.
- 10 SEE CIVIL PLANS FOR REMOVAL.
- 11 REMOVE EXISTING ABANDONED CW AND YARD HYDRANT.



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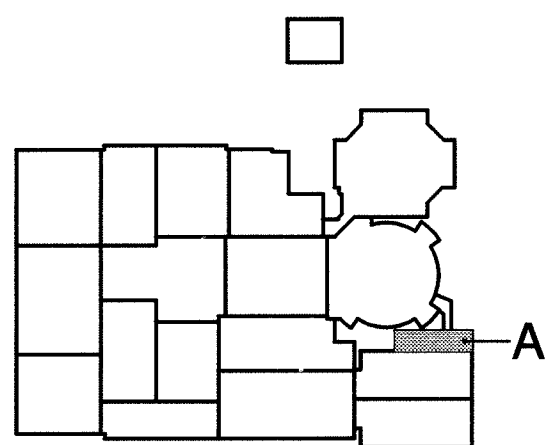
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**LAWRENCE
CENTRALIZED
KINDERGARTEN**

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT
OF LAWRENCE TOWNSHIP

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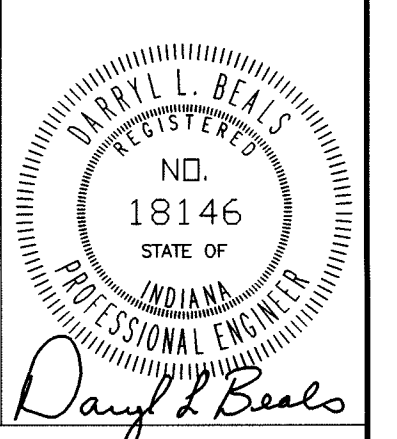
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DRAWING
**UNIT "A" PLUMBING
FOUNDATION AND
FIRST FLOOR PLANS**

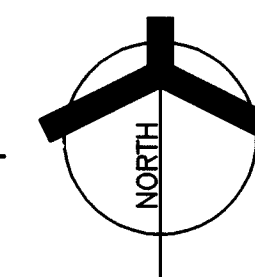
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LAWRENCE CENTRALIZED KINDERGARTEN
SOUTH CAMPUS

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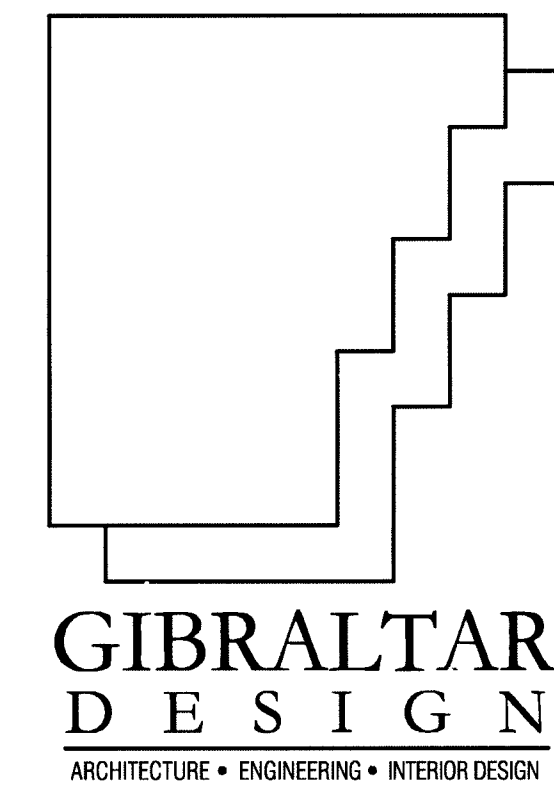
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P-101



MR101

- PLAN NOTES:
(THESE NOTES APPLY TO THIS SHEET ONLY)
1. ROUTE ALL VOICE, DATA AND TELEVISION CABLING FOR NEW ADDITION TO "IDF-P".
 2. EXISTING SCHOOL INTERCOM SYSTEM MAIN EQUIPMENT.



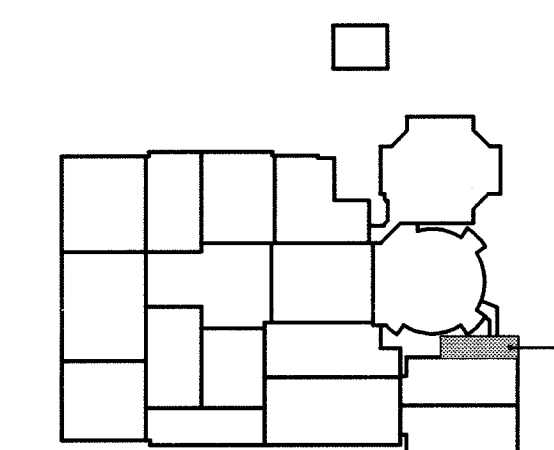
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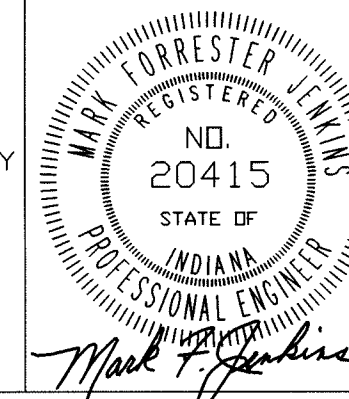
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**DRAWING
PARTIAL ELECTRICAL
FIRST FLOOR PLAN**

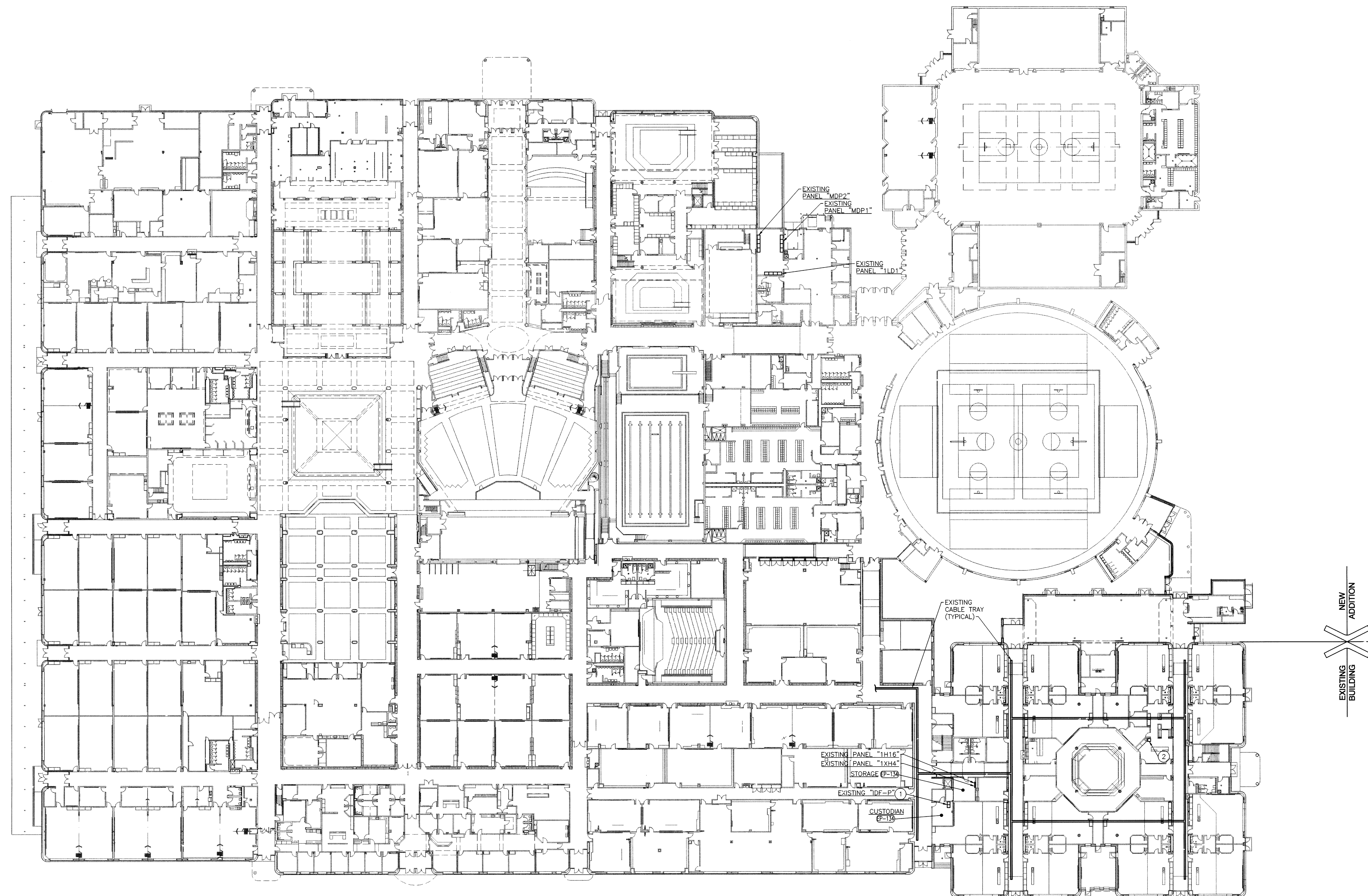
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SOUTH CAMPUS

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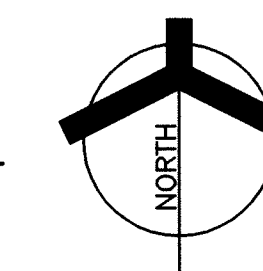
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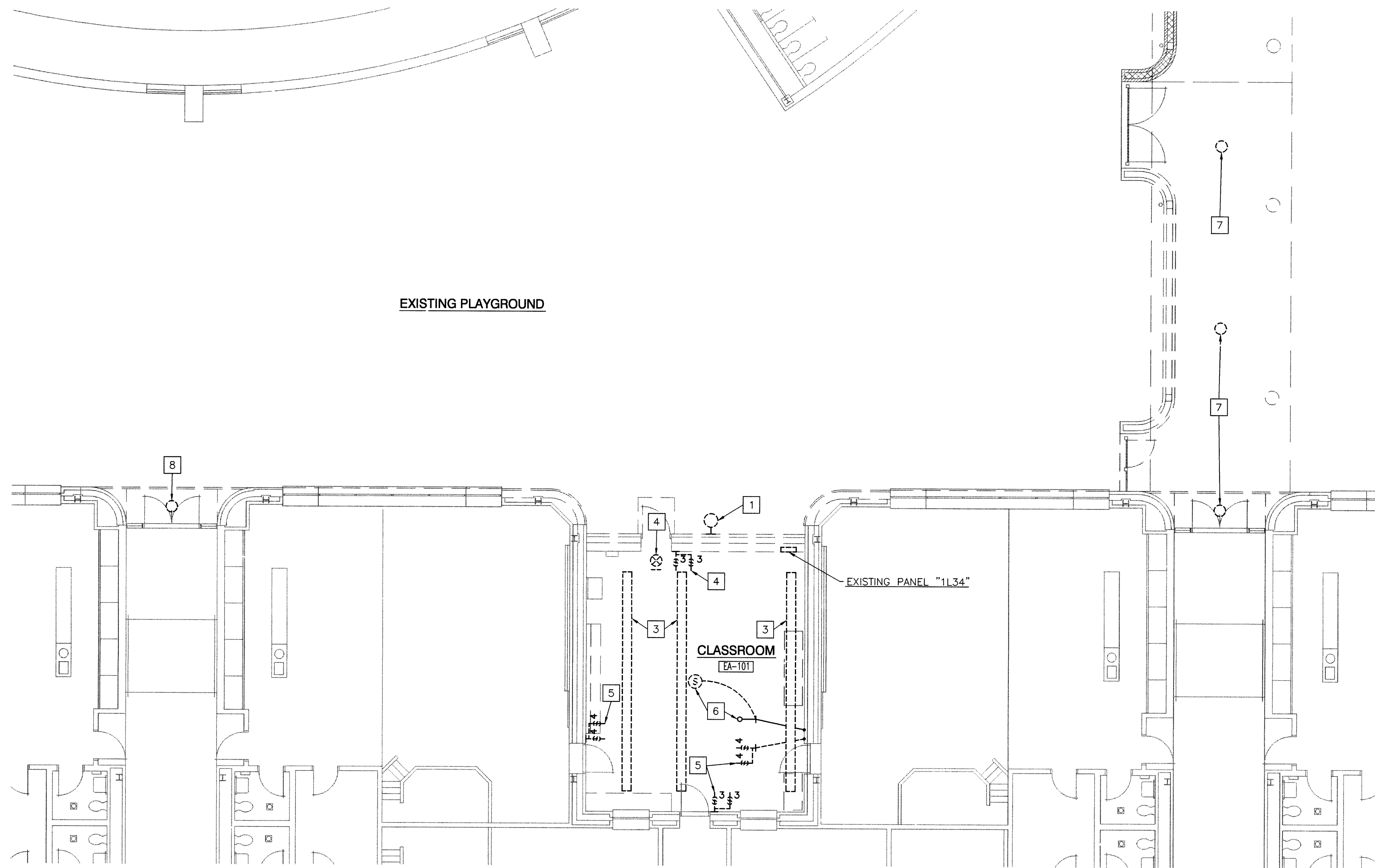
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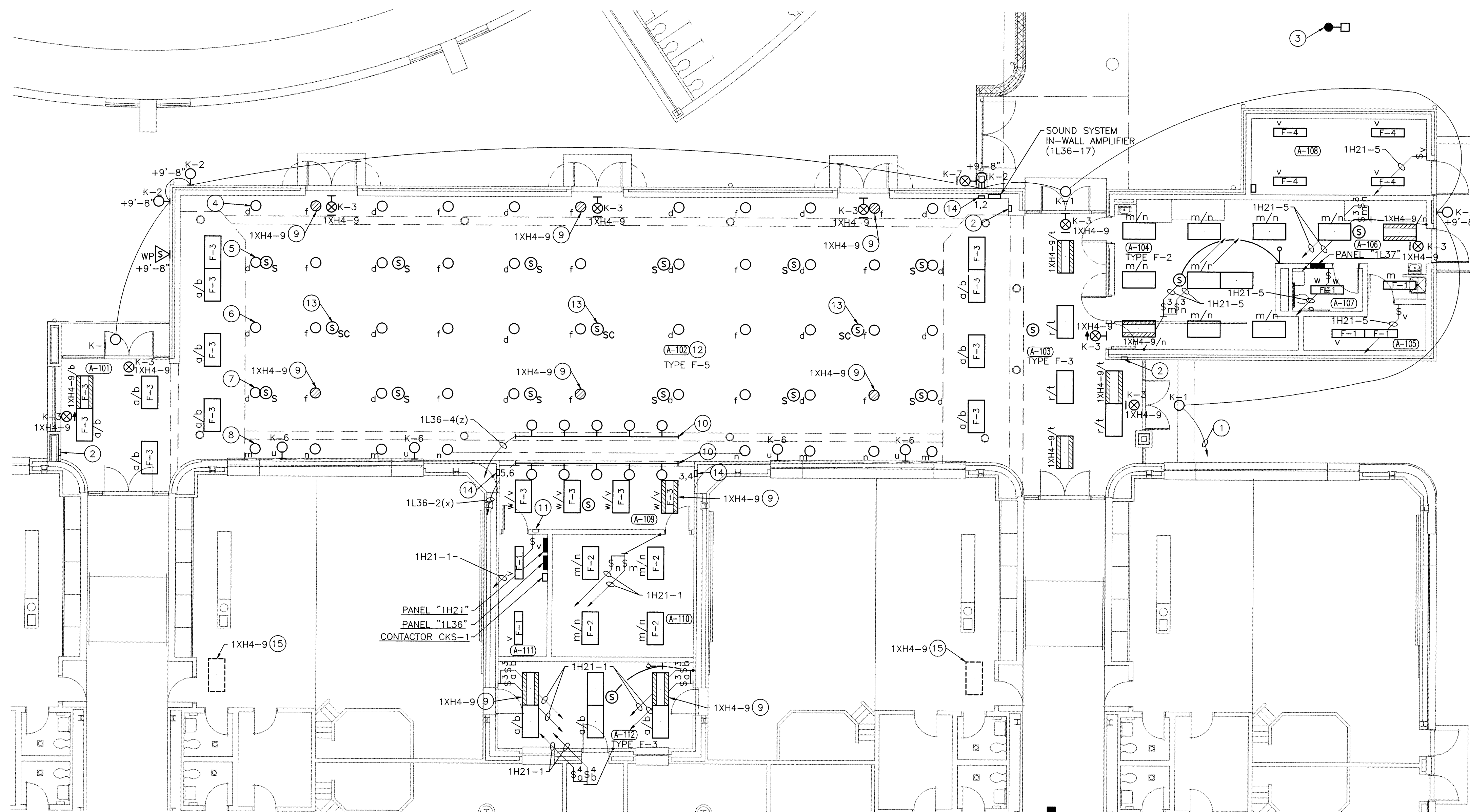
PARTIAL ELECTRICAL FIRST FLOOR PLAN

SCALE: 1/32" = 1'-0"





UNIT "A" ELECTRICAL FIRST FLOOR LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



UNIT "A" ELECTRICAL FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION PLAN NOTES:

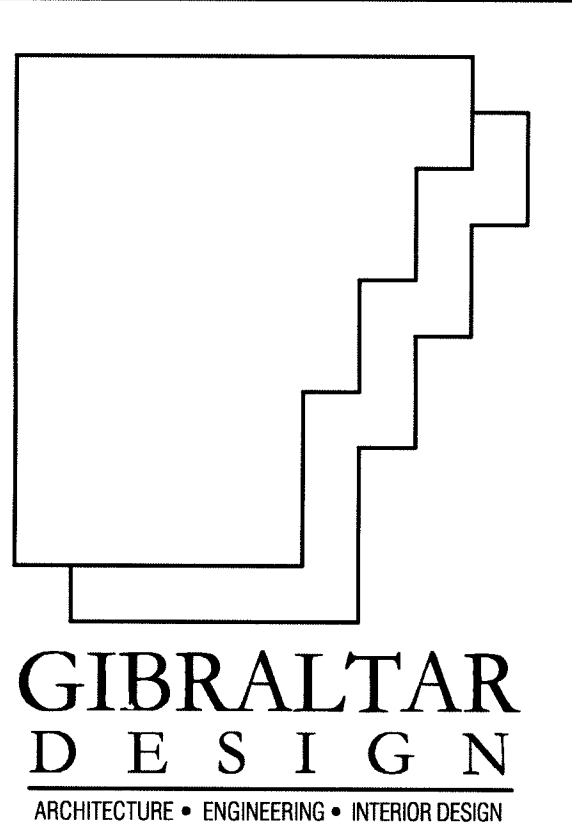
- (THESE NOTES APPLY TO THIS SHEET ONLY)
- 1 REMOVE EXISTING WALL MOUNTED LIGHTING FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRE IN SUCH A MANNER THAT ALL OTHER LIGHTING FIXTURES AND DEVICES CONNECTED TO THIS CIRCUIT SHALL REMAIN IN SERVICE.
 - 2 REMOVE AND RELOCATE EXISTING LIGHTING FIXTURE, POLE, AND ALL ASSOCIATED CONDUIT AND WIRE IN SUCH A MANNER THAT ALL OTHER LIGHTING FIXTURES AND DEVICES CONNECTED TO THIS CIRCUIT SHALL REMAIN IN SERVICE. REMOVE EXISTING LIGHTING POLE BASE.
 - 3 DISCONNECT AND REMOVE EXISTING INDIRECT PENDANT TYPE LIGHTING FIXTURES AND TURN THEM OVER TO THE OWNER. DISCONNECT AND REMOVE EXISTING ASSOCIATED CONDUIT AND WIRING.
 - 4 DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICE AND ASSOCIATED CONDUIT AND WIRING.
 - 5 DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICE AND ASSOCIATED CONDUIT AND WIRING. REUSE EXISTING RACEWAY AND OUTLET BOX FOR NEW DEVICE AND WIRING.
 - 6 DISCONNECT AND REMOVE EXISTING SCHOOL INTERCOM SYSTEM CEILING LOUDSPEAKER. EXISTING SYSTEM CALL-IN SWITCH AND WIRING TO REMAIN AND BE CONNECTED TO NEW SCHOOL INTERCOM SYSTEM CEILING SPEAKER IN SGI ROOM A-112.
 - 7 DISCONNECT AND REMOVE EXISTING RECESSED CANOPY LIGHTING FIXTURE AND ASSOCIATED CONDUIT AND WIRING. MAINTAIN THE EXISTING CANOPY LIGHTING CIRCUIT TO THE EXISTING CANOPY LIGHTING FIXTURES REMAINING IN THE NORTH PORTION OF THE EXISTING CANOPY.
 - 8 DISCONNECT AND REMOVE EXISTING CANOPY LIGHTING FIXTURE. MAINTAIN CONTINUITY OF EXISTING LIGHTING CIRCUIT AS NECESSARY FOR EXISTING FIXTURES REMAINING ON THE CIRCUIT.

PLAN NOTES:

- (THESE NOTES APPLY TO THIS SHEET ONLY)
- 1 CONNECT TO EXISTING BUILDING SECURITY CIRCUIT LIGHTING AND CONTROLS.
 - 2 EAT AND PLAY LIGHTING CONTROL STATION "A" - SEE DETAIL THIS SHEET.
 - 3 RELOCATED EXISTING EXTERIOR LIGHTING FIXTURE AND POLE. PROVIDE NEW CONCRETE POLE BASE AND MOUNTING HARDWARE. PROVIDE NEW CONDUIT AND WIRING AS REQUIRED TO REROUTE THE EXISTING LIGHTING CIRCUIT TO THIS LOCATION.
 - 4 PROVIDE STRUCTURAL STEEL CHANNELS BETWEEN JOISTS AND INSTALL LIGHTING FIXTURE WITH SWIVEL JOINT MOUNTING BOX AT +9'-4" ABOVE FINISHED FLOOR. (TYPICAL OF ALL LIGHTING FIXTURES IN THIS ROOM).
 - 5 PROVIDE STRUCTURAL STEEL CHANNELS BETWEEN JOISTS AND INSTALL LIGHTING FIXTURE WITH SWIVEL JOINT MOUNTING BOX AT +10'-0" ABOVE FINISHED FLOOR. (TYPICAL OF ALL LIGHTING FIXTURES IN THIS ROOM).
 - 6 PROVIDE STRUCTURAL STEEL CHANNELS BETWEEN JOISTS AND INSTALL LIGHTING FIXTURE WITH SWIVEL JOINT MOUNTING BOX AT +11'-3" ABOVE FINISHED FLOOR. (TYPICAL OF ALL LIGHTING FIXTURES IN THIS ROOM).
 - 7 PROVIDE STRUCTURAL STEEL CHANNELS BETWEEN JOISTS AND INSTALL LIGHTING FIXTURE WITH SWIVEL JOINT MOUNTING BOX AT +12'-6" ABOVE FINISHED FLOOR. (TYPICAL OF ALL LIGHTING FIXTURES IN THIS ROOM).
 - 8 PROVIDE STRUCTURAL STEEL CHANNELS BETWEEN JOISTS AND INSTALL LIGHTING FIXTURE WITH SWIVEL JOINT MOUNTING BOX AT +13'-0" ABOVE FINISHED FLOOR. (TYPICAL OF ALL LIGHTING FIXTURES IN THIS ROOM).
 - 9 PROVIDE LIGHTING FIXTURE WITH AUTOMATIC EMERGENCY TRANSFER RELAY - SEE DETAIL ON SHEET E-001.
 - 10 SURFACE MOUNTED LIGHTING TRACK WITH TYPE K-5 LIGHTING FIXTURES.
 - 11 EAT AND PLAY LIGHTING CONTROL STATION "B" - SEE DETAIL THIS SHEET.
 - 12 ALL LOUDSPEAKERS IN THIS ROOM SHALL BE CONNECTED TO THE EAT N' PLAY SOUND REINFORCEMENT SYSTEM UNLESS OTHERWISE NOTED. INSTALL LOUDSPEAKERS ON BOTTOM CHORD OF ROOF JOISTS AND ADJUST AIM TO BE VERTICAL.
 - 13 SCHOOL INTERCOM SYSTEM SURFACE TYPE LOUDSPEAKER. MOUNT TO BOTTOM CHORD OF ROOF JOIST.
 - 14 AUDIO INTERFACE PANEL. CONNECT TO EAT N' PLAY SOUND REINFORCEMENT SYSTEM.
 - 15 PROVIDE AUTOMATIC EMERGENCY TRANSFER RELAY AND CONNECT TO EXISTING LIGHTING FIXTURE AHEAD OF LIGHT SWITCH WITH EMERGENCY CIRCUIT INDICATED.

ROOM NAME SCHEDULE

NO	NAME
A-101	PASSAGE
A-102	EAT 'N' PLAY
A-103	PASSAGE
A-104	SERVING
A-105	STORAGE
A-106	PASSAGE
A-107	TOILET
A-108	MECHANICAL
A-109	STAGE
A-110	CHAIR STORAGE
A-111	STORAGE
A-112	SGI



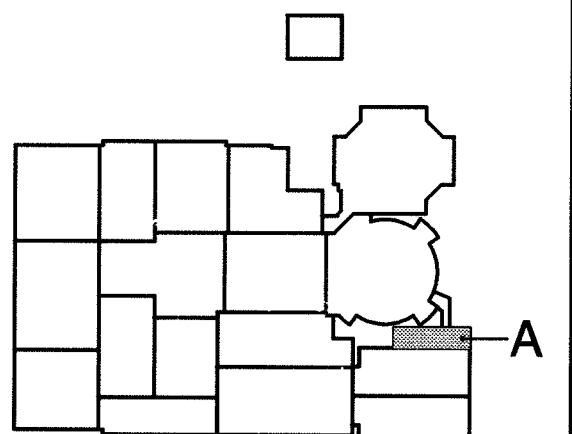
PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA



KEY PLAN

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PROJECT

02-580

DATE

04/21/03

COORDINATED BY

PCB

DRAWN BY

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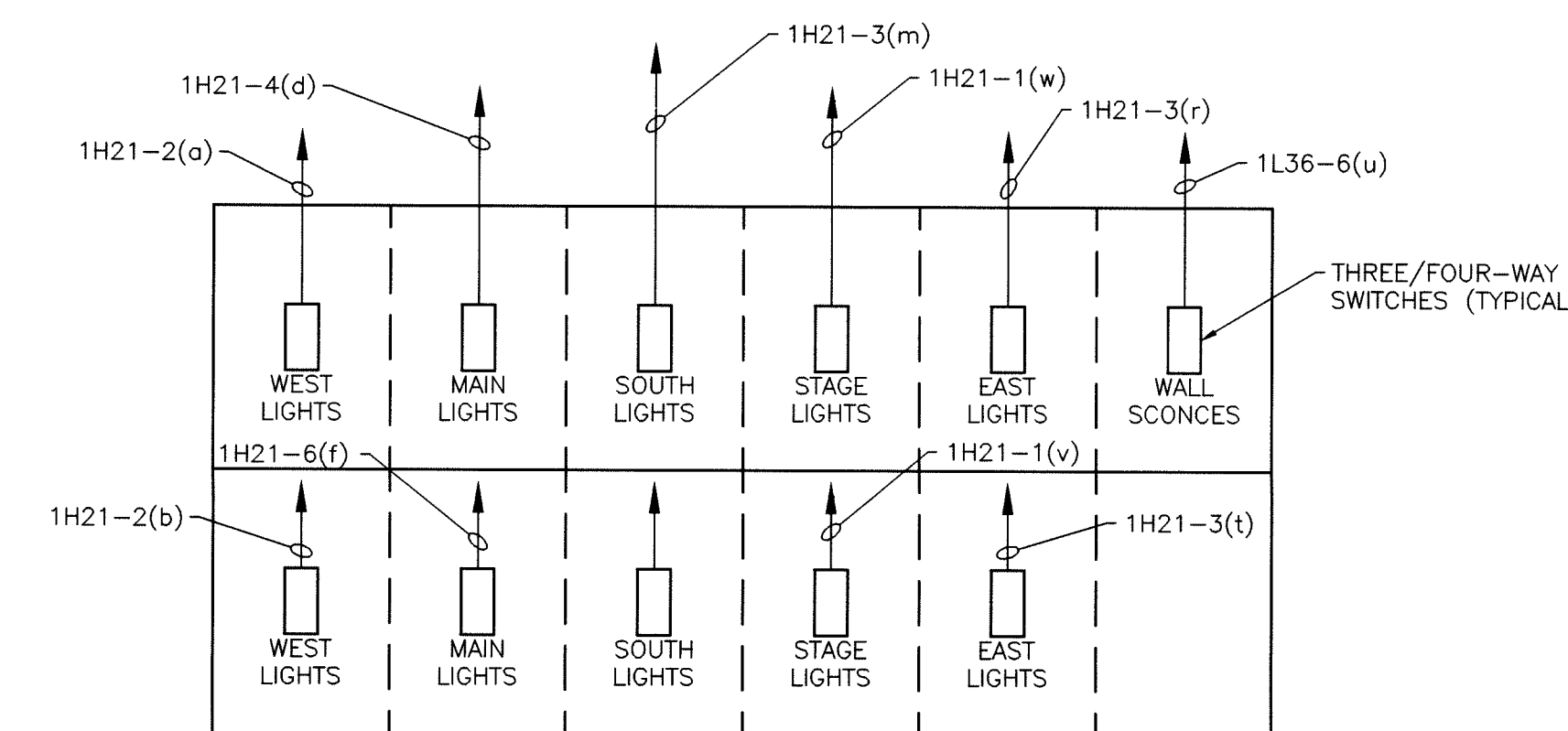
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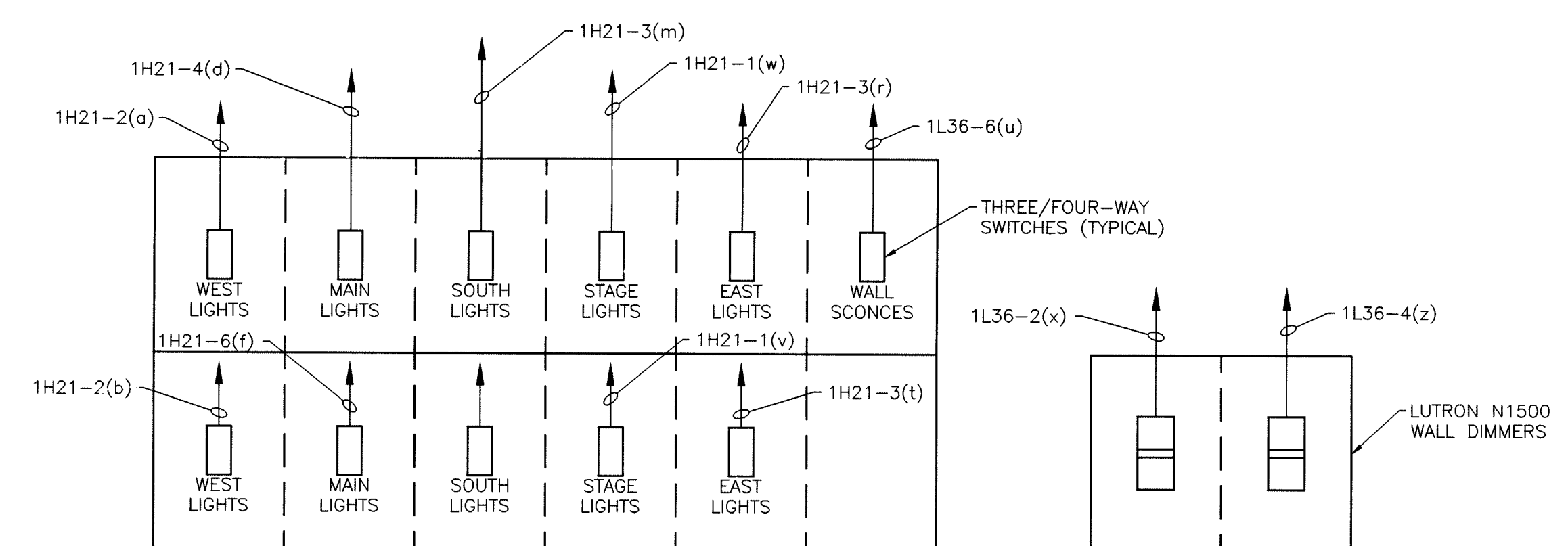
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EAT N' PLAY LIGHTING CONTROL STATION "A" DETAIL
NOT TO SCALE



EAT N' PLAY LIGHTING CONTROL STATION "B" DETAIL
NOT TO SCALE

DRAWING

UNIT "A"

ELECTRICAL FIRST

FLOOR LIGHTING PLAN

PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

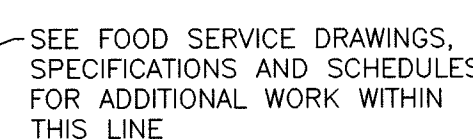
SOUTH CAMPUS

GIBRALTAR DESIGN

SHEET

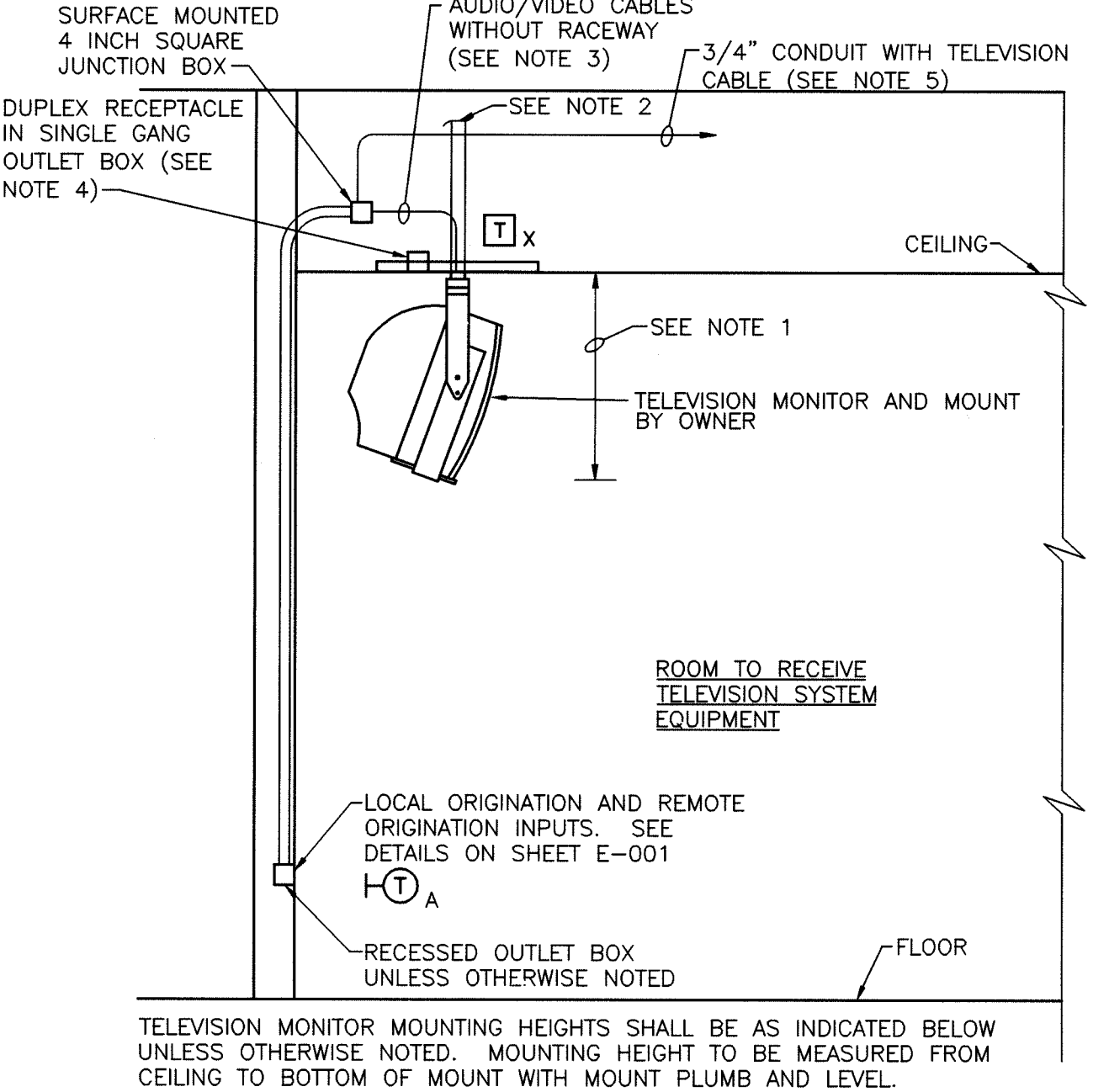
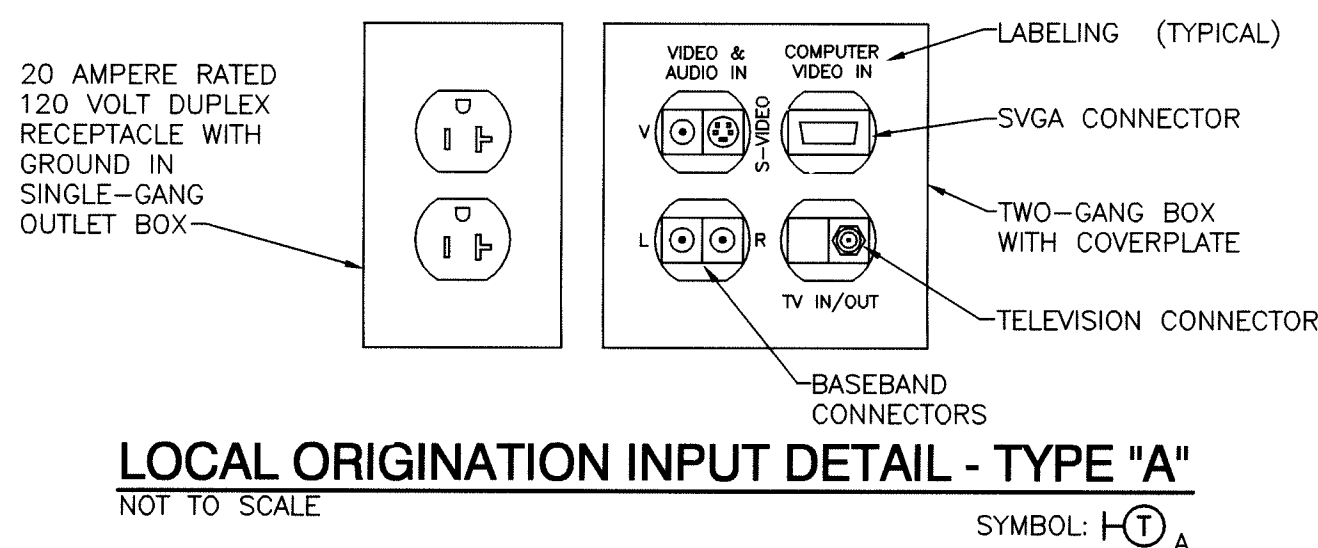
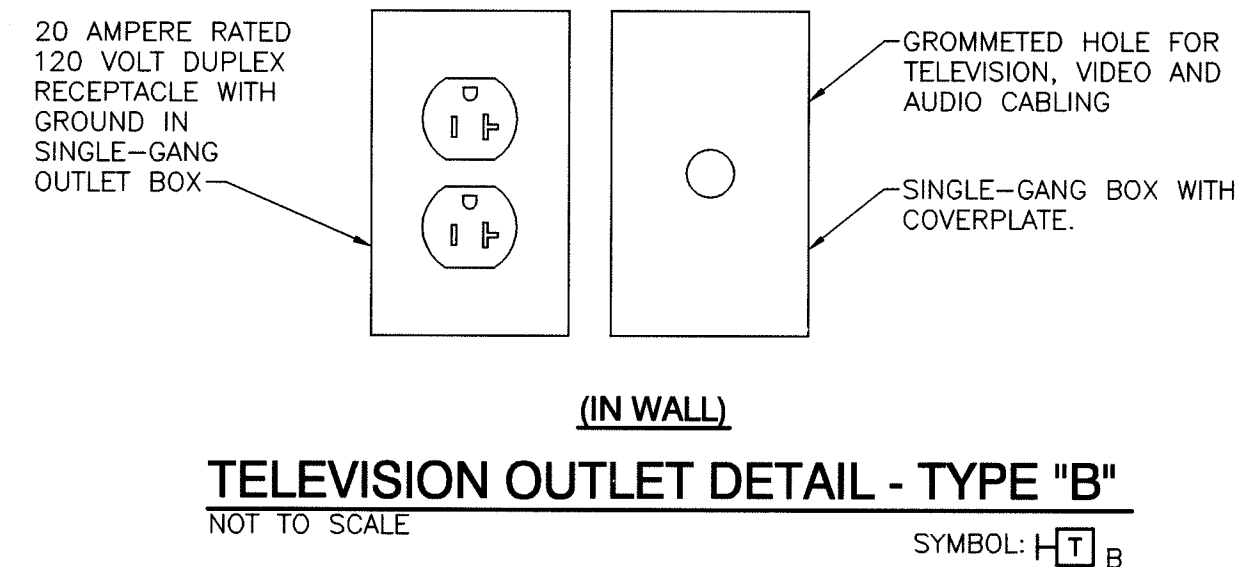
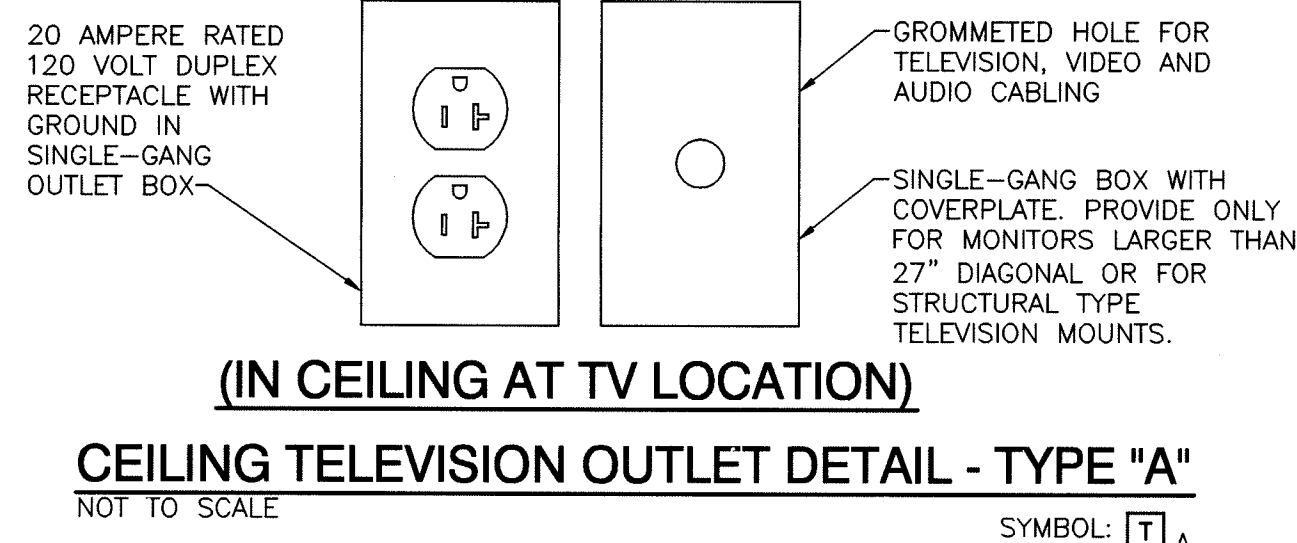
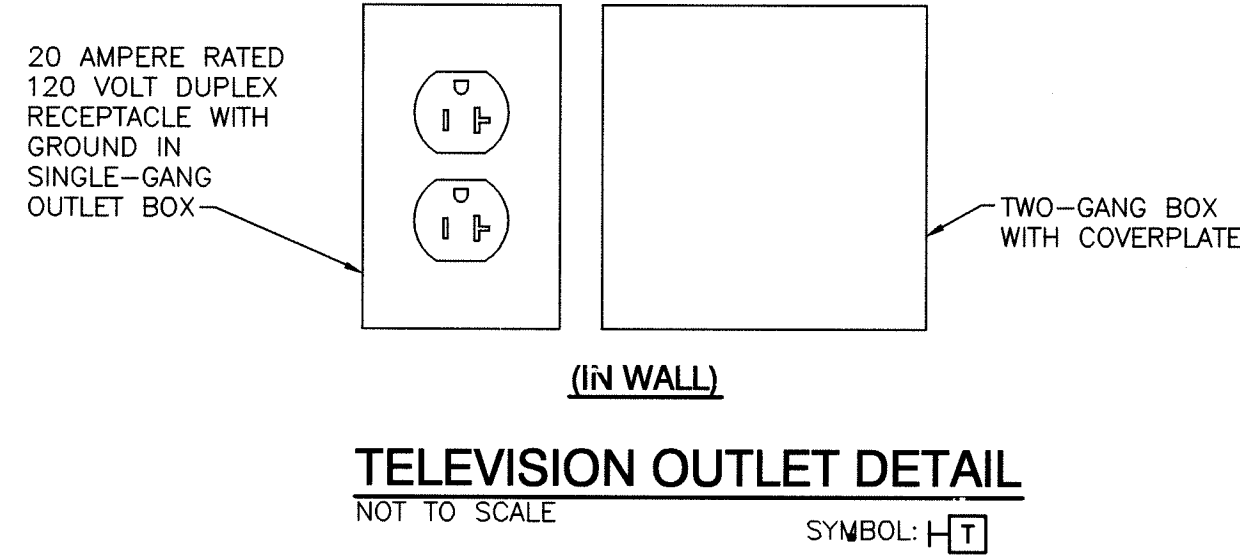
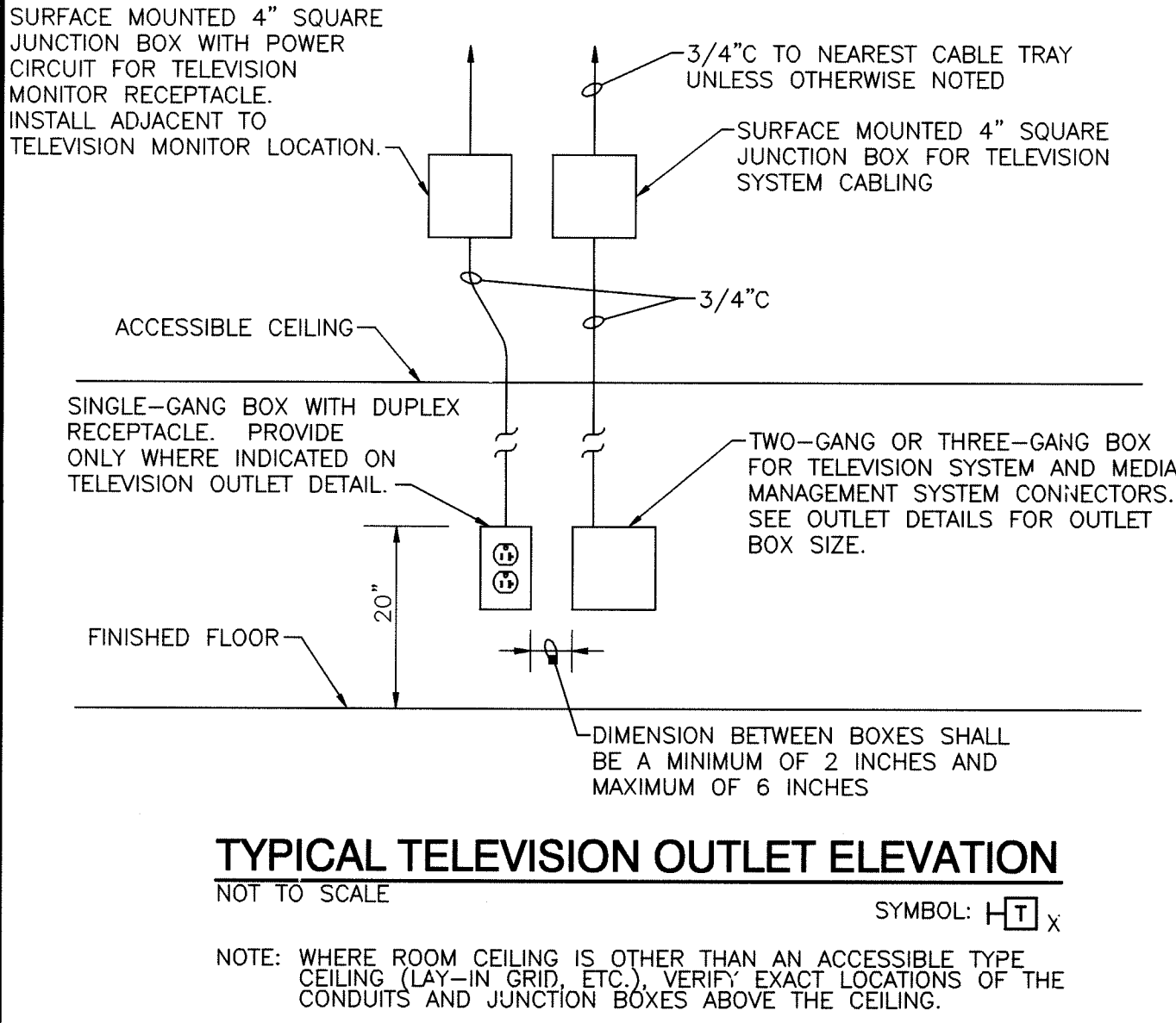
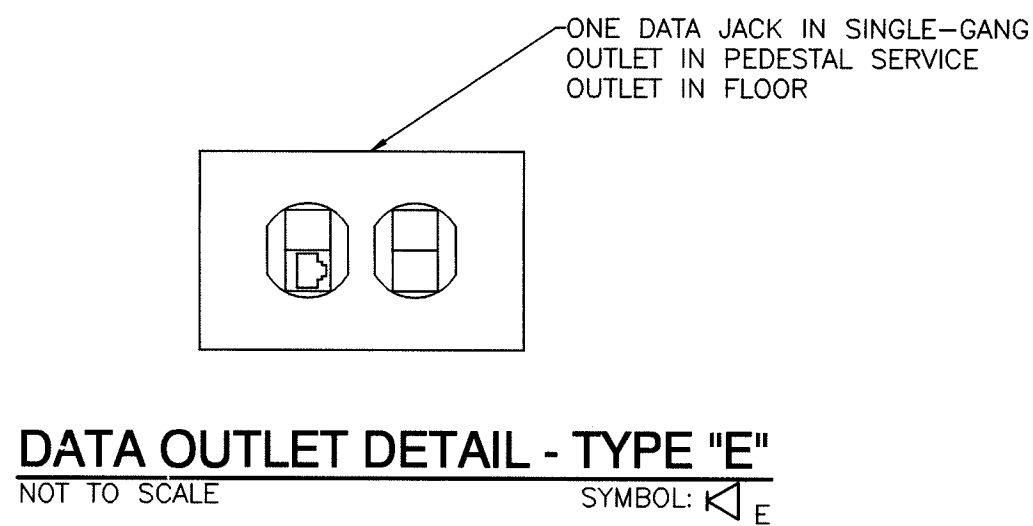
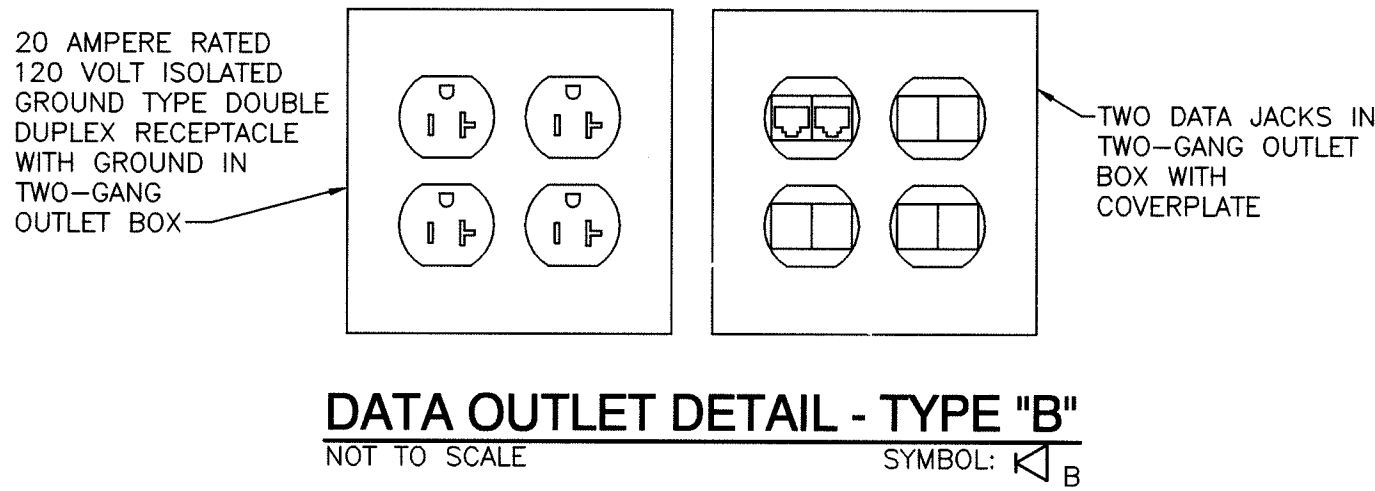
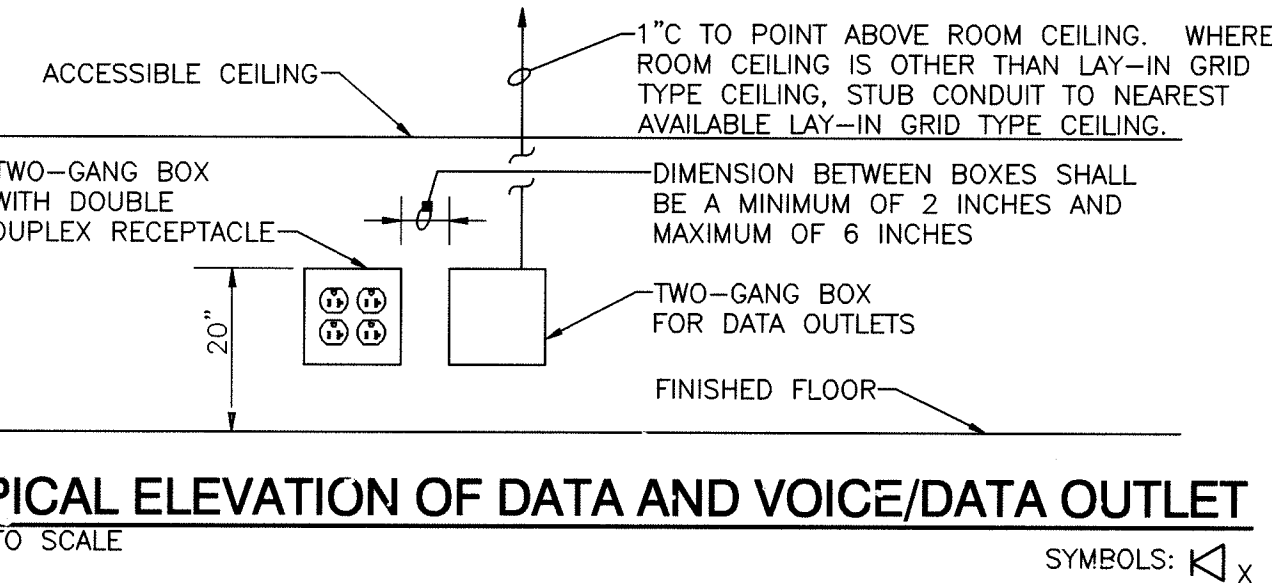
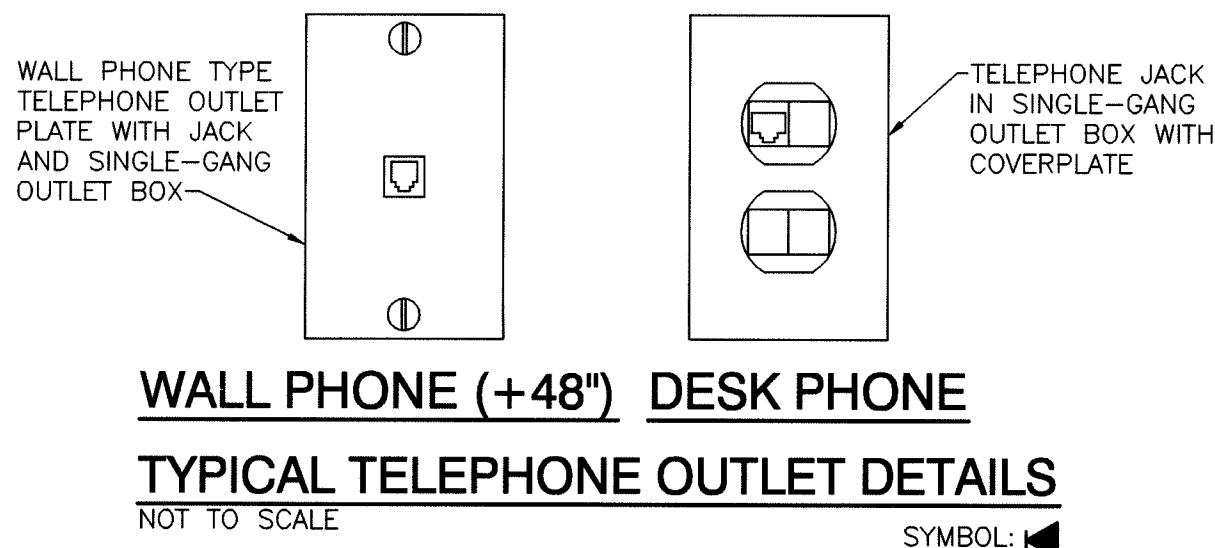
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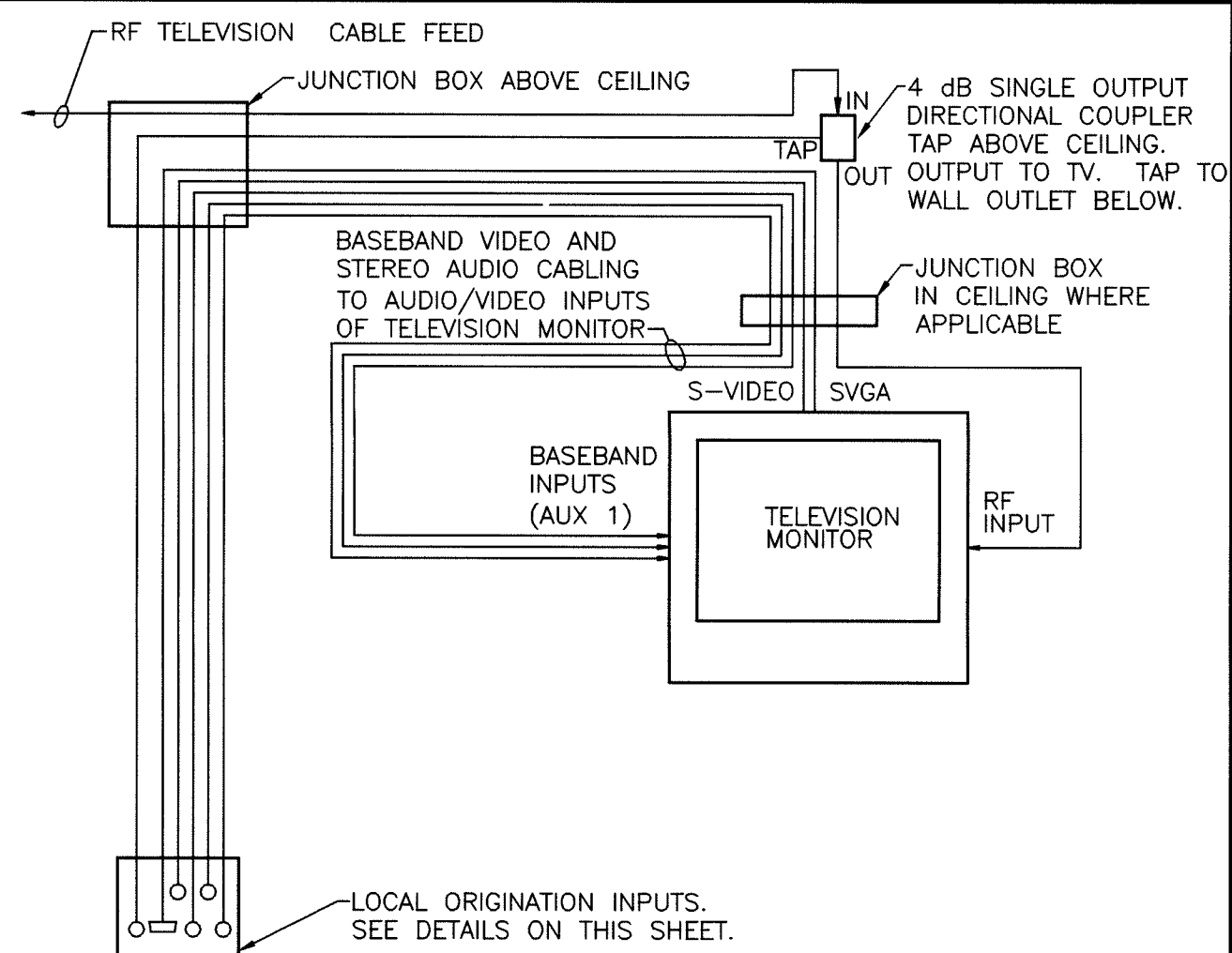


- ① 3/4" C. 2-#10 and 1-#10 GRD.
- ② THE NEUTRAL WIRE FOR ALL RECEPTACLES IN THIS ROOM INCLUDING THE HOMERUN TO THE APPROPRIATE PANEL SHALL BE #10 AWG.
- ③ VARIABLE FREQUENCY DRIVE CONTROLLER PROVIDED BY DIVISION 16
- ④ PUSH PAD FOR ELECTRIC POWER ASSISTED DOOR FURNISHED BY HARDWARE SUPPLIER AND INSTALLED BY DIVISION 16
- ⑤ CONNECT POWER ASSISTED DOOR CONTROLLER TO CIRCUIT INDICATED. PROVIDE ALL OPERATOR CIRCUIT WIRING.
- ⑥ PROVIDE NEW RECEPTACLE AND WALL PLATE IN EXISTING OUTLET BOX AND CONNECT TO EXISTING CIRCUIT WIRING.
- ⑦ PROVIDE CEILING MOUNTED TELEVISION MONITOR MOUNT. TELEVISION MONITOR FURNISHED AND INSTALLED BY THE OWNER.
- ⑧ INSTALL DATA OUTLET IN OUTLET BOX AT FLOOR FOR CASHIER'S STATION.

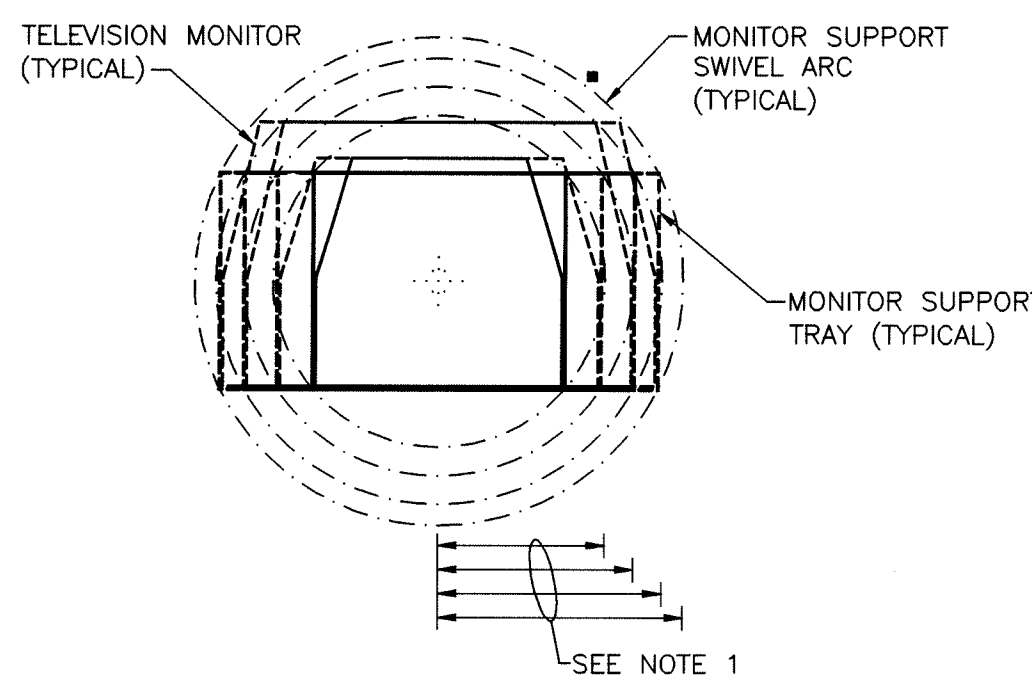
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- NOTES:**
1. INSTALL TELEVISION MONITORS AT HEIGHT OF 6'-9" FROM THE FLOOR TO THE BOTTOM OF THE TELEVISION MOUNT. WHERE CEILINGS ARE TOO LOW TO ALLOW THIS MOUNTING HEIGHT, INSTALL MONITORS AT THE HEIGHTS INDICATED BELOW.
 2. FOR TELEVISION MONITOR LARGER THAN 27" OR WHERE THERE IS NO CEILING, UTILIZE A STRUCTURAL PIPE SUPPORT MOUNTING LIEU OF THE SUSPENDED CEILING TRAY MOUNT.
 3. WHERE SUSPENDED CEILING TRAY MOUNT IS UTILIZED, ROUTE TELEVISION, AUDIO, VIDEO, AND CONTROL CABLING THROUGH CENTER OF MONITOR SUPPORT PIPE. WHERE STRUCTURAL PIPE SUPPORT MOUNT IS UTILIZED, INSTALL OUTLET BOX IN CEILING WITH SPECIFIED TEE-SPAN BOX HANGER, AND ROUTE TELEVISION, AUDIO, VIDEO, AND CONTROL CABLING THROUGH OUTLET BOX.
 4. WHERE SUSPENDED CEILING TRAY MOUNT IS UTILIZED, INSTALL OUTLET BOX IN TRAY. WHERE STRUCTURAL PIPE SUPPORT MOUNT IS UTILIZED, INSTALL OUTLET BOX IN CEILING WITH SPECIFIED TEE-SPAN BOX HANGER. PROVIDE DUPLEX RECEPTACLE WITH COVERPLATE. UTILIZING MC CABLE TO CONNECT RECEPTACLE TO TELEVISION OUTLET RECEPTACLE CIRCUIT IN POWER JUNCTION BOX. MC CABLE TO BE PLENUM RATED WHERE REQUIRED. JUNCTION BOX LOCATED ABOVE THE CEILING IN THIS ROOM UNLESS OTHERWISE NOTED.
 5. STUB CONDUIT TO NEAREST EXISTING CABLE TRAY IN EXISTING CORRIDORS UNLESS OTHERWISE NOTED.
- MONITOR SIZE MOUNTING HEIGHT TO BOTTOM OF MOUNT**
- | | |
|-----|-----------------------------------|
| 20" | MAXIMUM OF 25" BELOW ROOM CEILING |
| 27" | MAXIMUM OF 30" BELOW ROOM CEILING |
| 31" | MAXIMUM OF 33" BELOW ROOM CEILING |
| 35" | MAXIMUM OF 38" BELOW ROOM CEILING |



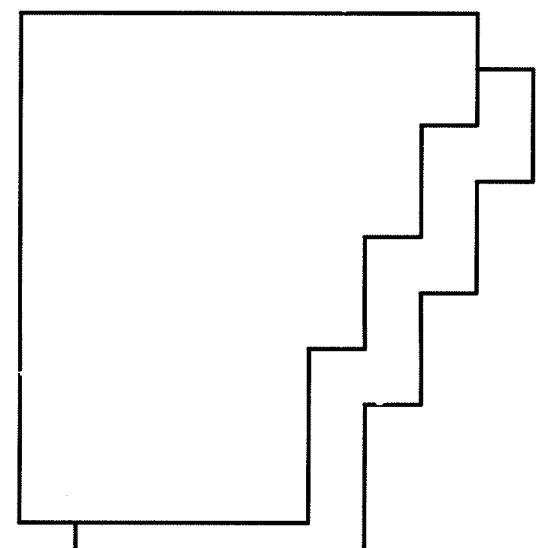
TYPICAL TELEVISION SYSTEM ROOM WIRING DIAGRAM
NOT TO SCALE



TELEVISION MONITOR SUPPORT MOUNTING CLEARANCE DETAIL
NOT TO SCALE

NOTE: MINIMUM DISTANCE FROM TELEVISION MONITOR SUPPORTS TO NEAREST VERTICAL SURFACE SUCH AS A WALL SHALL BE AS INDICATED BELOW UNLESS OTHERWISE NOTED. DISTANCE TO BE MEASURED FROM THE VERTICAL SURFACE TO THE CENTER OF SUPPORT MOUNTING PIPE.

MONITOR SIZE	CLEARANCE DISTANCE
20"	MINIMUM OF 20"
27"	MINIMUM OF 20"
31"	MINIMUM OF 24"
35"	MINIMUM OF 26"



GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LAWRENCE CENTRALIZED KINDERGARTEN

NORTH & SOUTH CAMPUS ADDITIONS

METROPOLITAN SCHOOL DISTRICT OF LAWRENCE TOWNSHIP

MARION COUNTY, INDIANA

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DATE 04/21/03

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