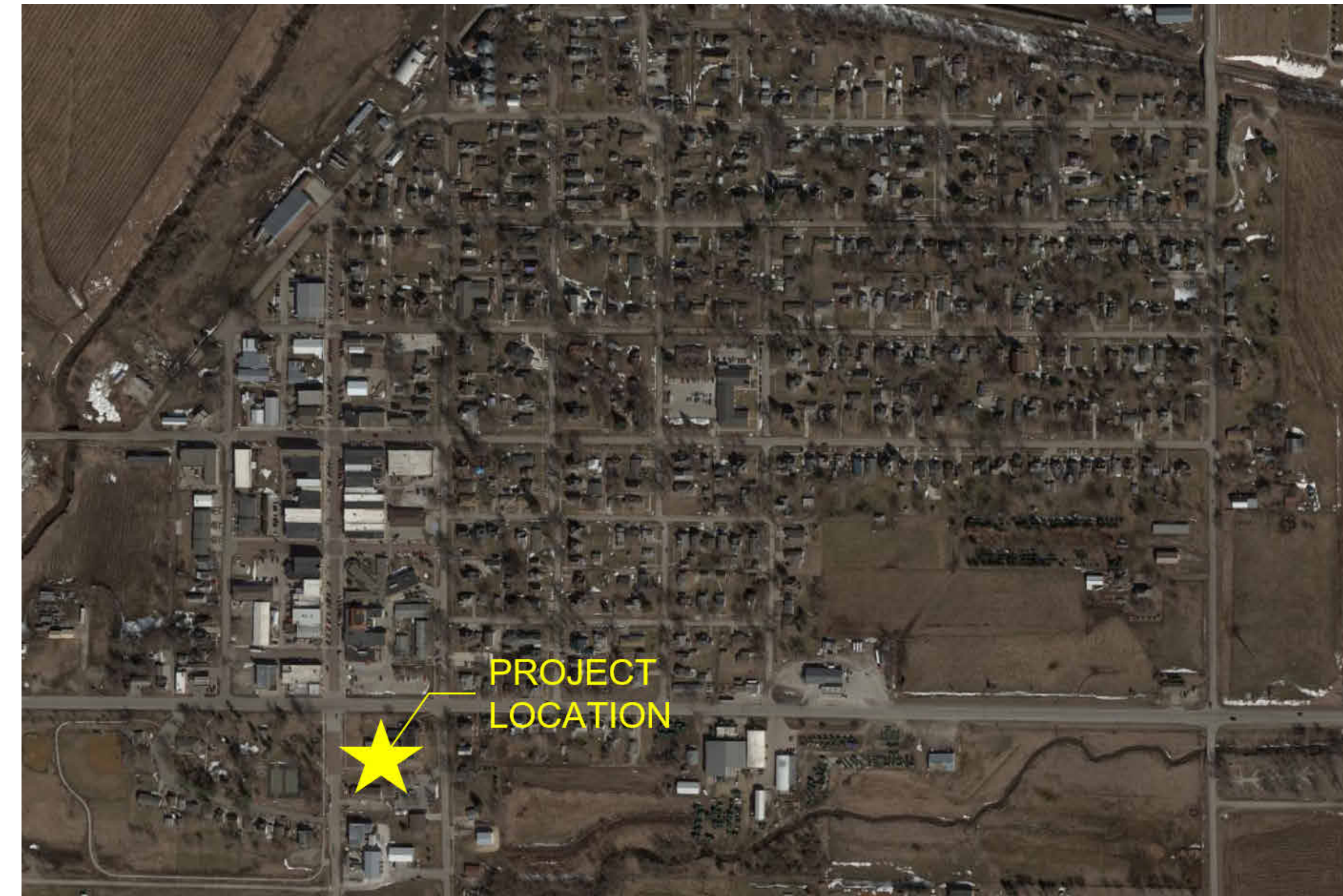


MANNING GYMNASIUM

702 6TH ST
MANNING, IA 51455



INDEX OF DRAWINGS

CIVIL

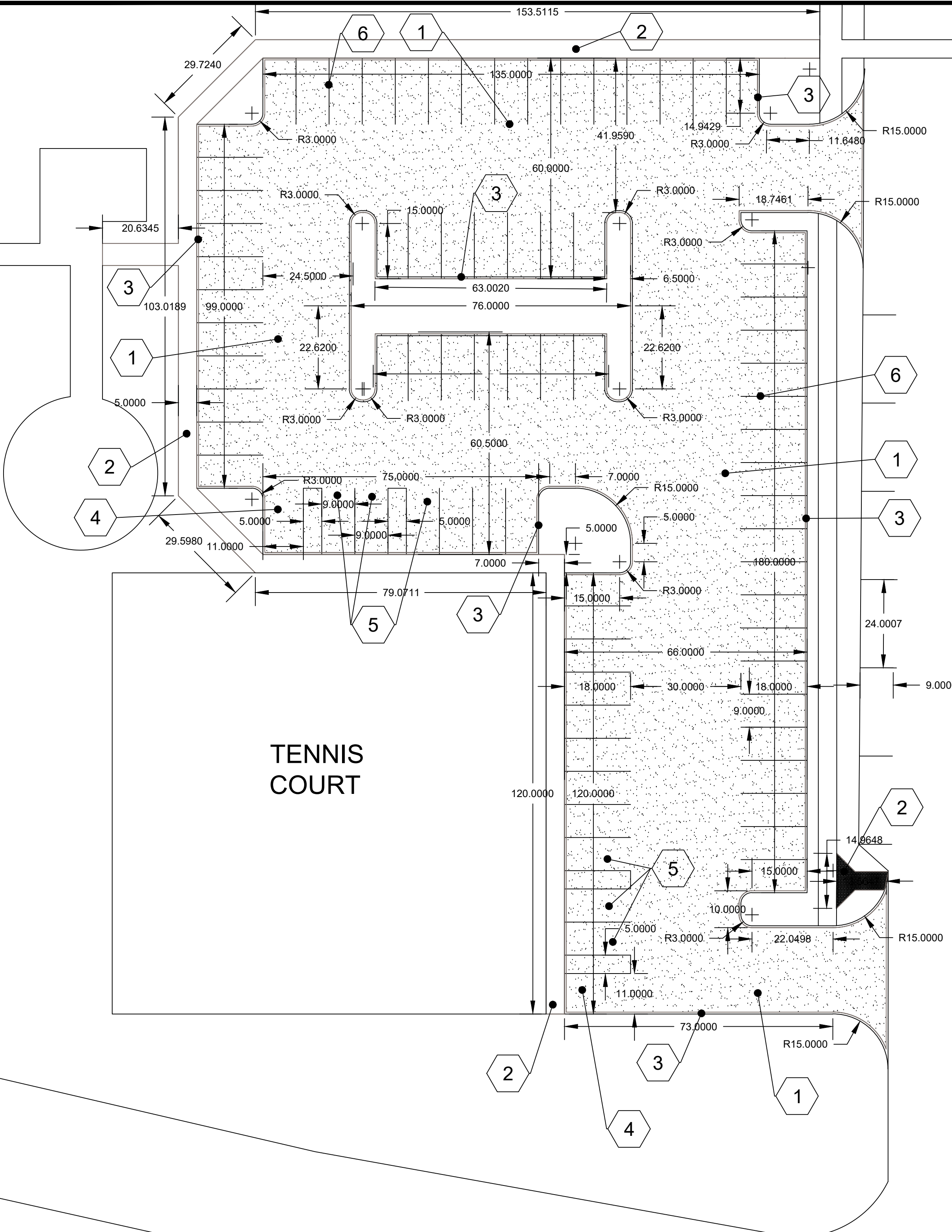
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| C1.02 | WEST LOT NORTH |
| C1.03 | WEST LOT SOUTH |
| C1.04 | GYMNASIUM |
| C1.05 | EAST LOT NORTH |
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| C1.07 | ADA DETAIL |
| C1.08 | DRAINAGE PLAN |
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STRUCTURAL

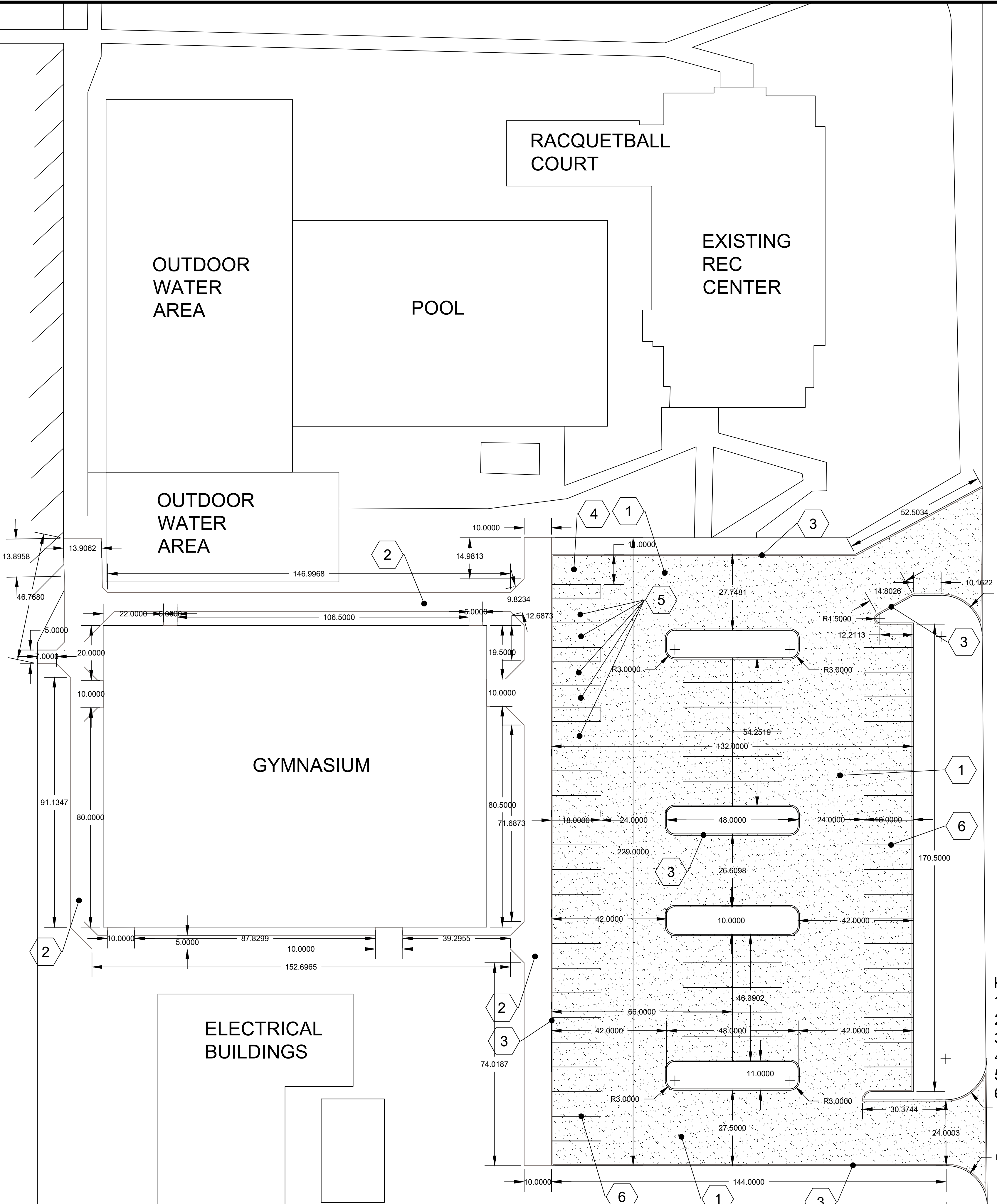
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- KEY NOTES**
1. HMA PARKING LOT PAVEMENT
 2. PCC SIDEWALK PAVEMENT
 3. 6" PCC CURB
 4. ADA VAN PARKING
 5. ADA VEHICLE PARKING
 6. 4" YELLOW PAVEMENT MARKINGS



| | |
|-----------|------------|
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| DATE : | 03/29/2023 |
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| REVISION: | |

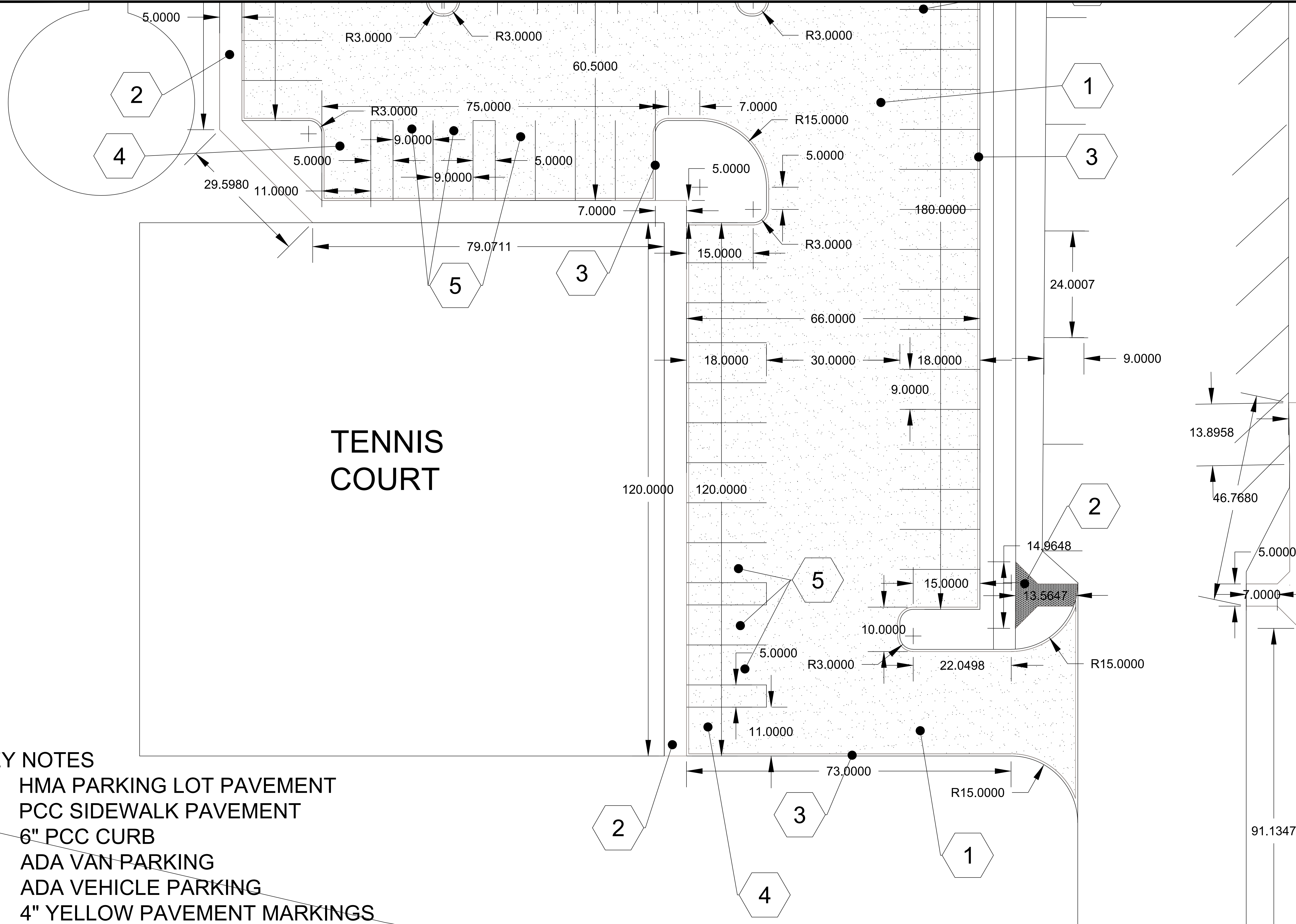
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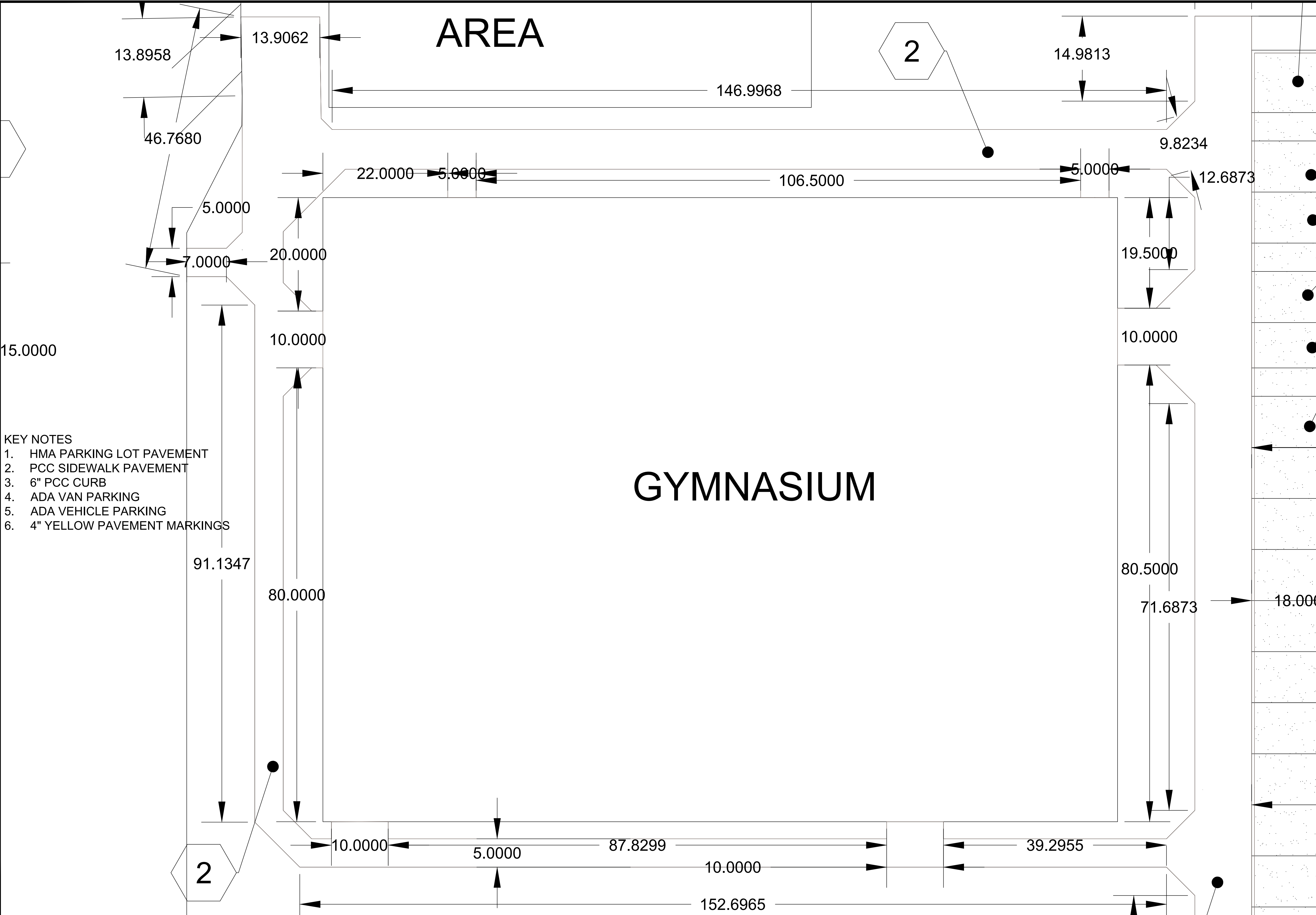
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| SHEET NAME | FULL SITE PLAN |
| SHEET NO. | C1.01 |



TENNIS COURT

- KEY NOTES**
1. HMA PARKING LOT PAVEMENT
 2. PCC SIDEWALK PAVEMENT
 3. 6" PCC CURB
 4. ADA VAN PARKING
 5. ADA VEHICLE PARKING
 6. 4" YELLOW PAVEMENT MARKINGS

| | |
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| SHEET NAME WEST LOT SOUTH | SHEET NO. <h1 style="margin: 0;">C1.03</h1> |



AREA

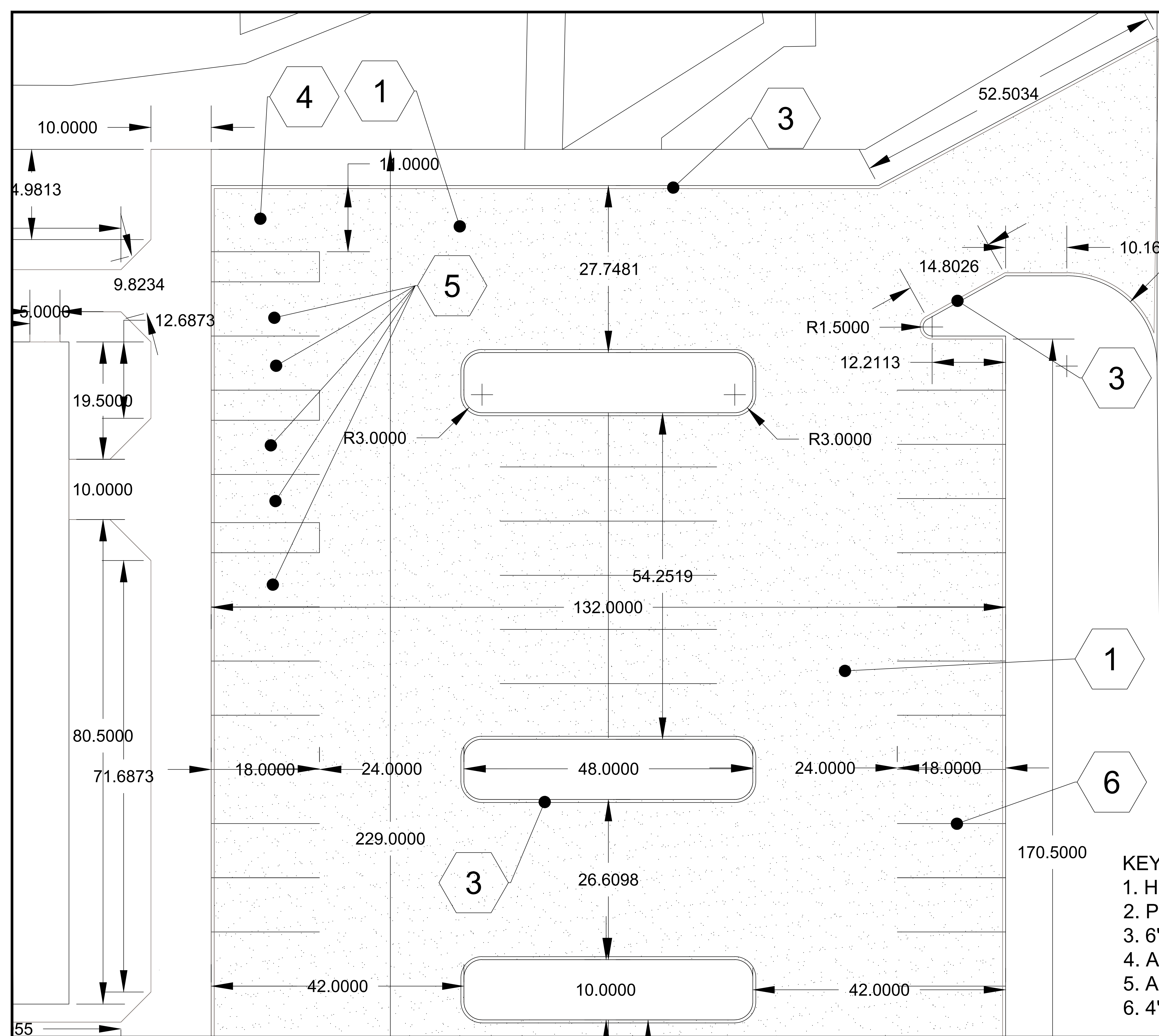
GYMNASIUM

2

2

- KEY NOTES
1. HMA PARKING LOT PAVEMENT
 2. PCC SIDEWALK PAVEMENT
 3. 6" PCC CURB
 4. ADA VAN PARKING
 5. ADA VEHICLE PARKING
 6. 4" YELLOW PAVEMENT MARKINGS

| | | | |
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| 702 6TH ST MANNING, IA 51455 | | | |
| SHEET NAME | | | |
| GYMNASIUM | | | |
| SHEET NO. | | | |
| C1.04 | | | |



- KEY NOTES**
1. HMA PARKING LOT PAVEMENT
 2. PCC SIDEWALK PAVEMENT
 3. 6" PCC CURB
 4. ADA VAN PARKING
 5. ADA VEHICLE PARKING
 6. 4" YELLOW PAVEMENT MARKING

| | |
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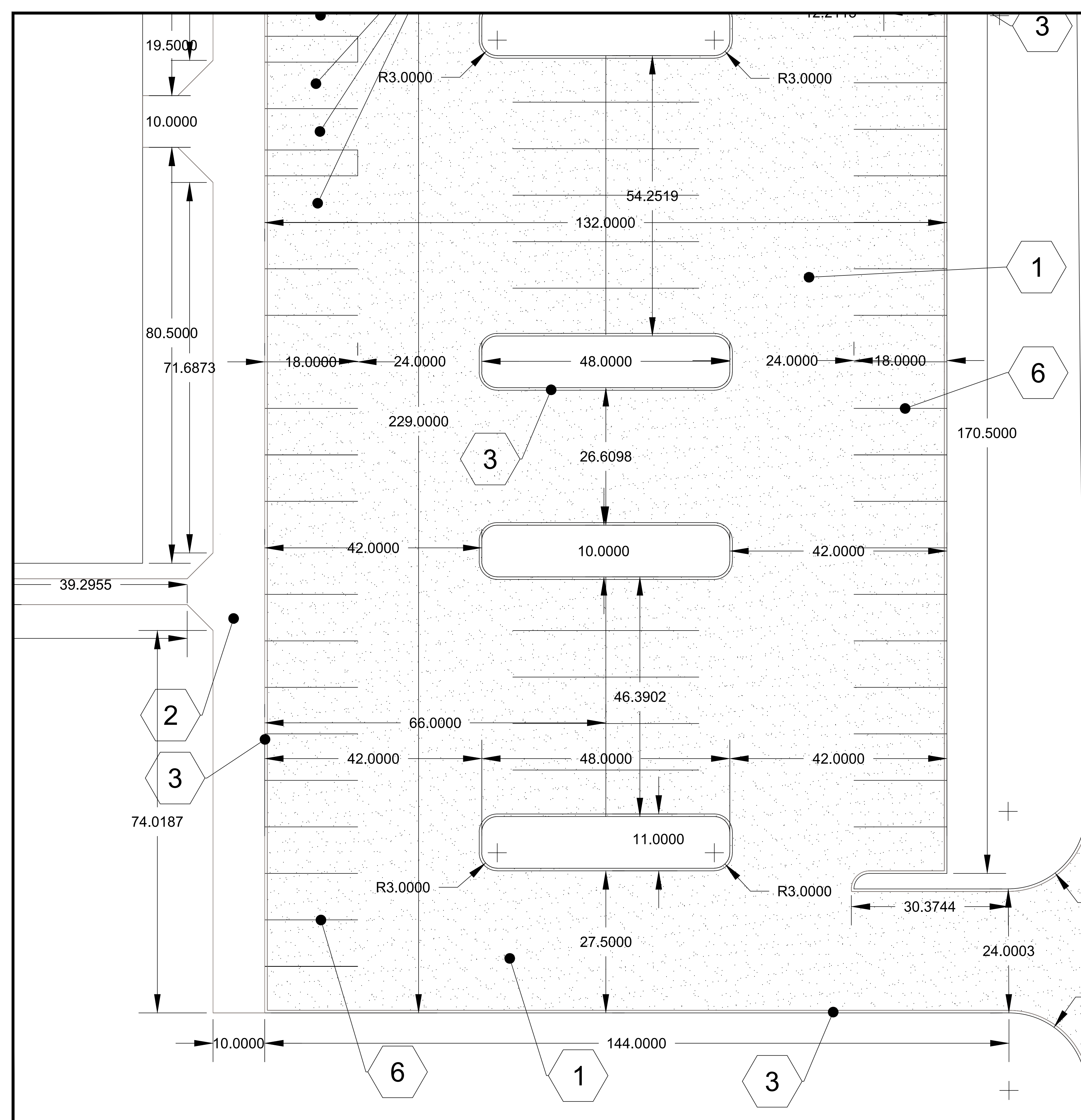
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SHEET NAME
 EAST LOT NORTH

SHEET NO.
C1.05



- KEY NOTES**
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 2. PCC SIDEWALK PAVEMENT
 3. 6" PCC CURB
 4. ADA VAN PARKING
 5. ADA VEHICLE PARKING
 6. 4" YELLOW PAVEMENT MARKING

| | |
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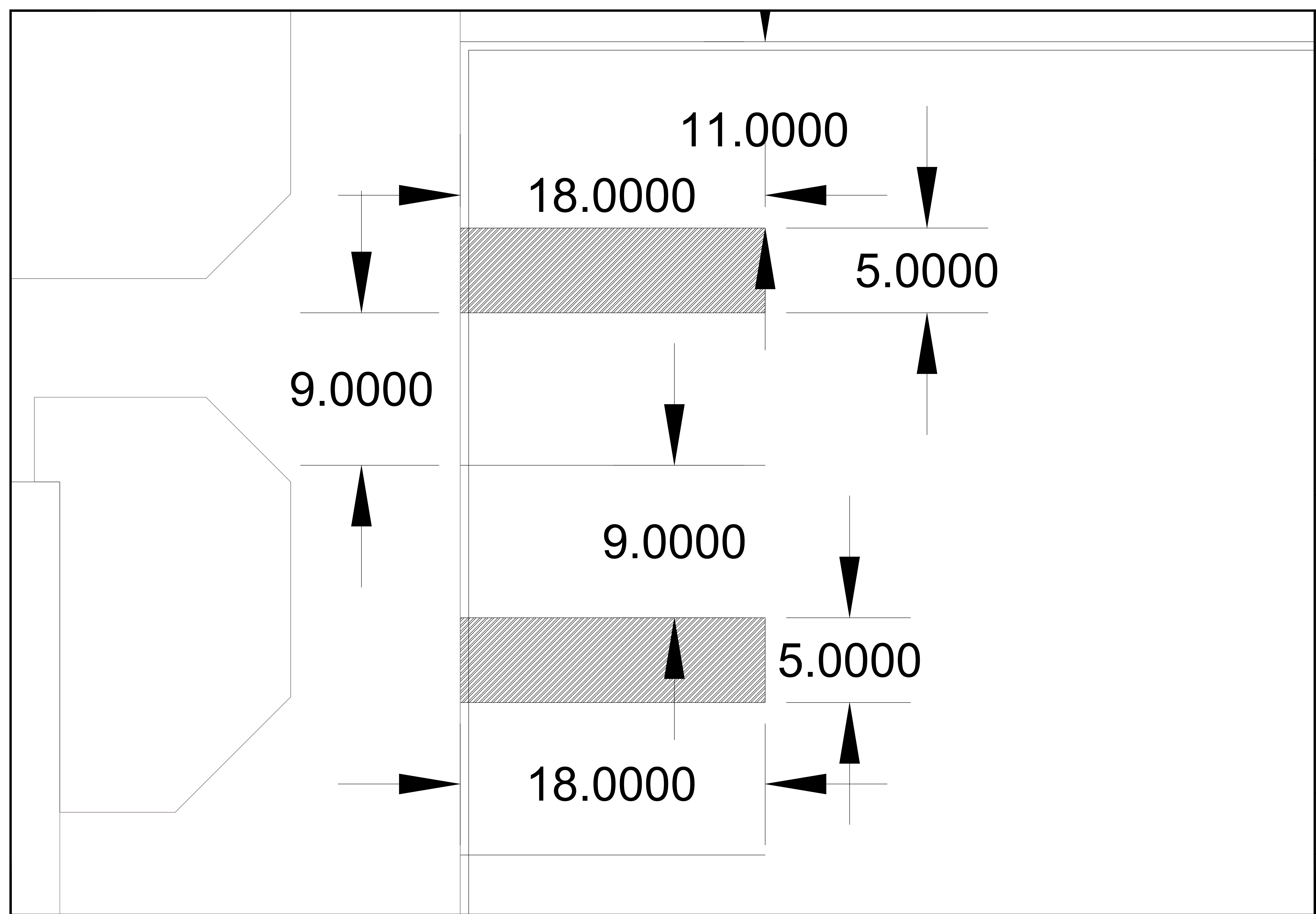
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SHEET NAME
 EAST LOT SOUTH

SHEET NO.
C1.06



| | |
|-----------|------------|
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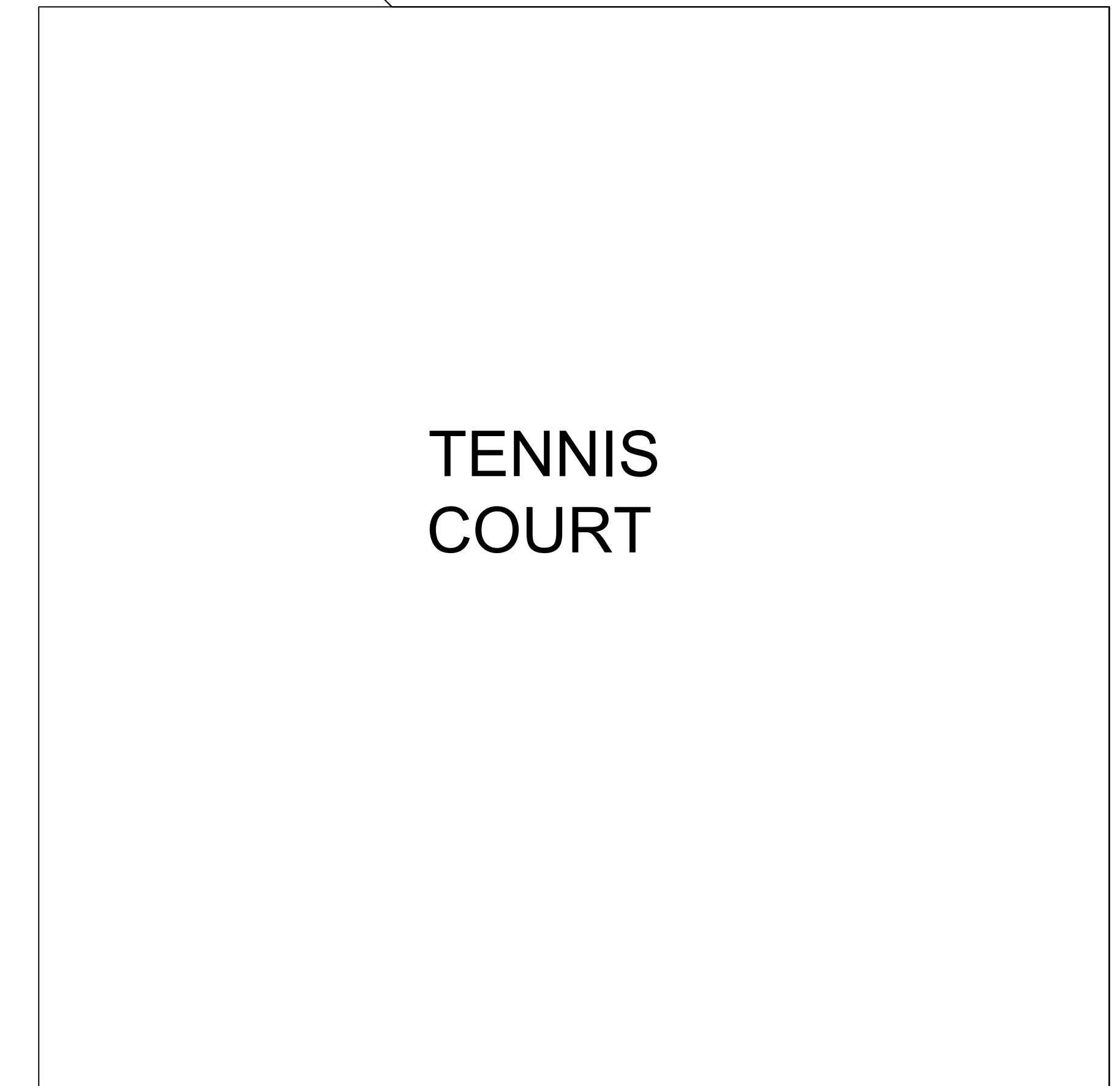
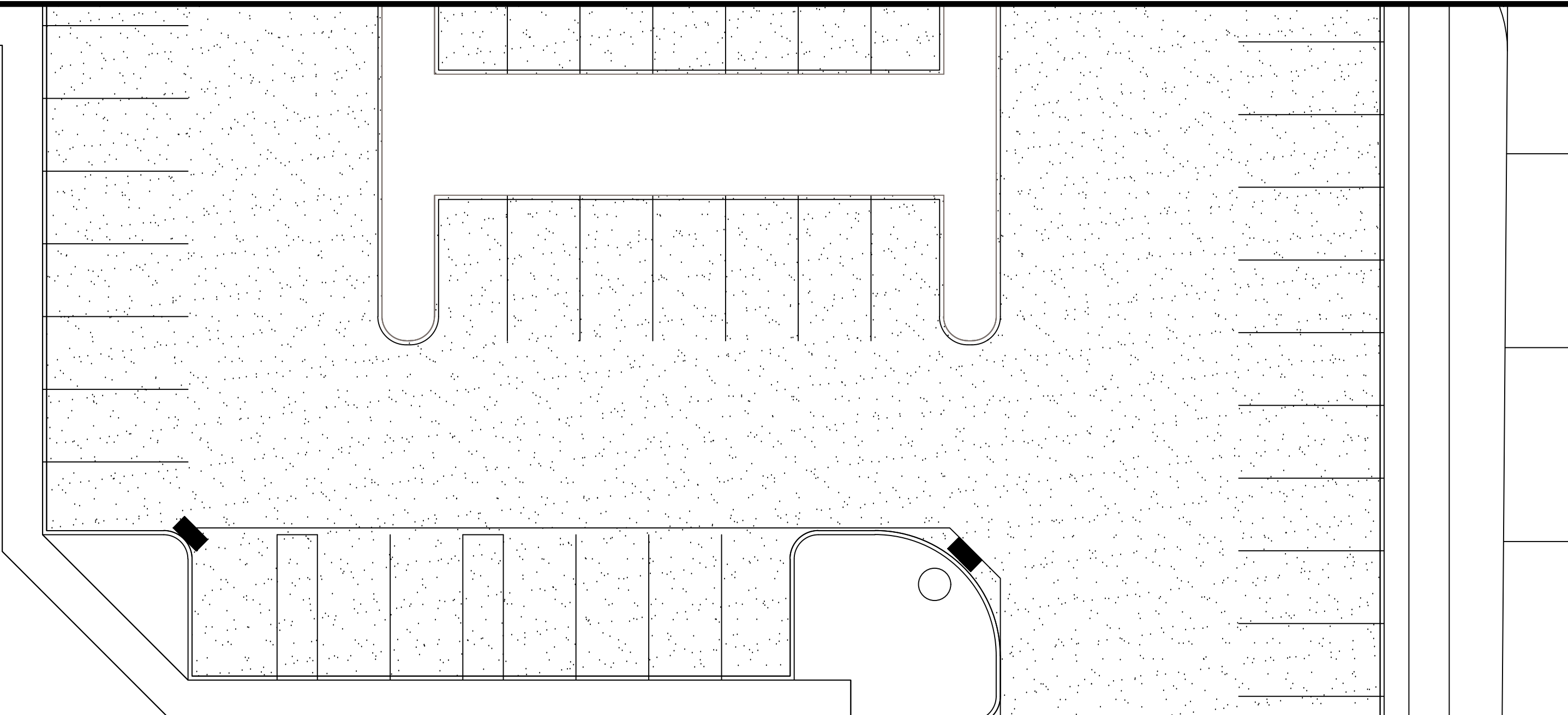
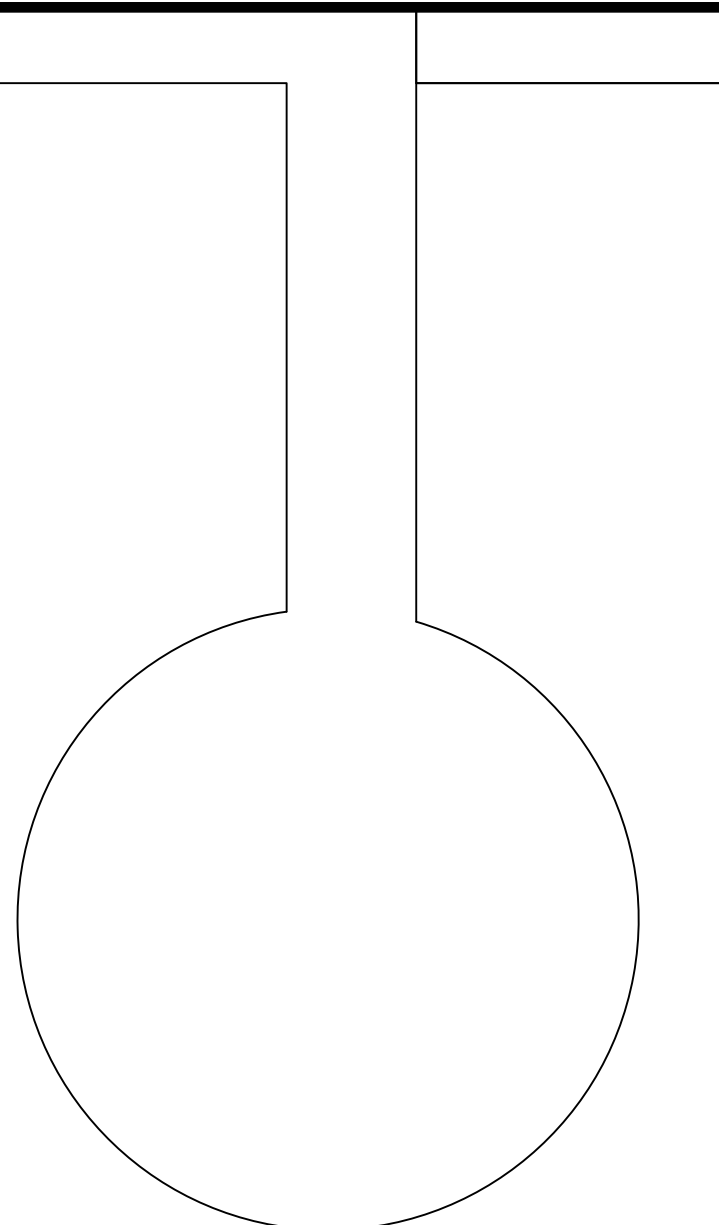
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SHEET NAME
 ADA DETAIL

SHEET NO.
C1.07

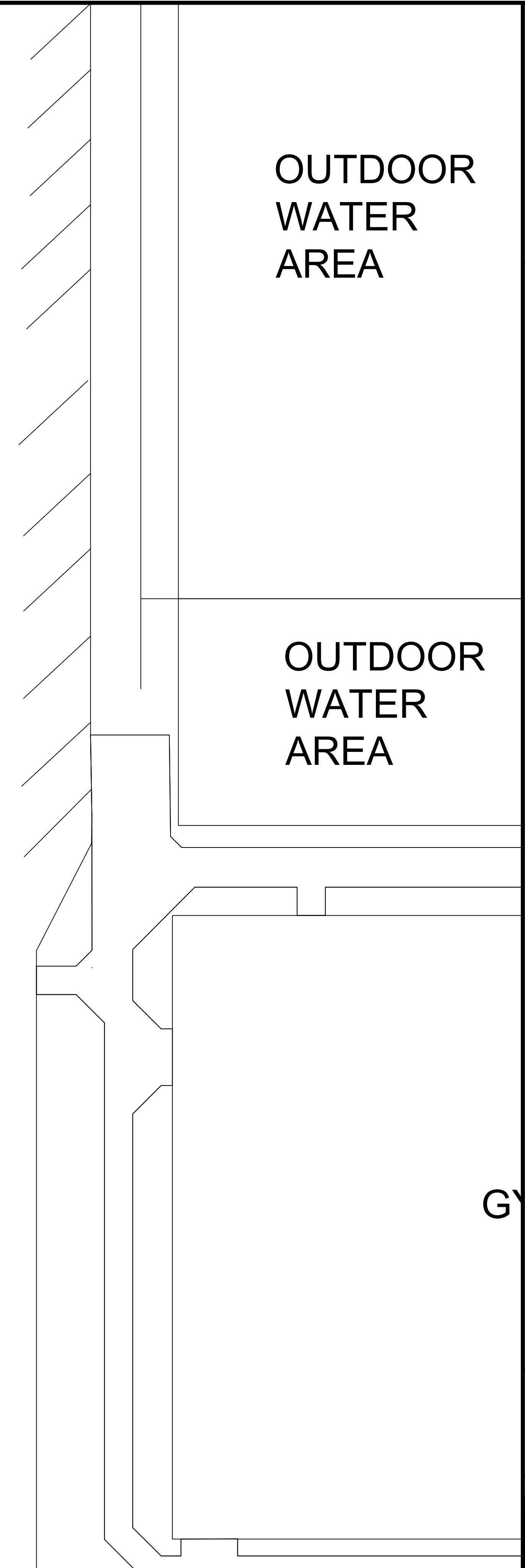
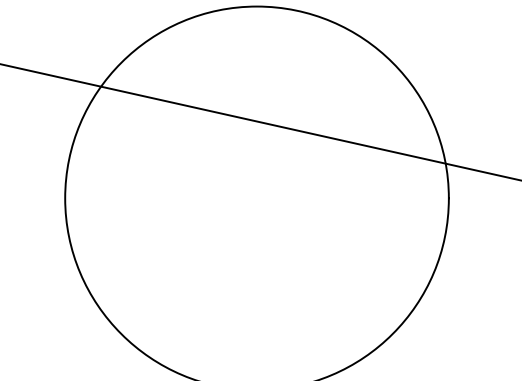
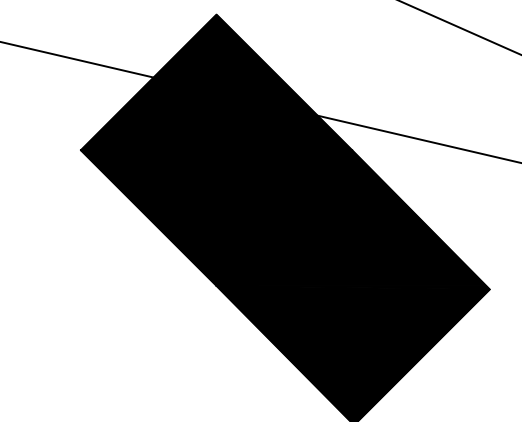


TENNIS COURT

36" Storm Sewer

Double Grate Intake

48" Manhole



OUTDOOR WATER AREA

OUTDOOR WATER AREA

| | |
|-----------|------------|
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| DATE : | 03/29/2023 |
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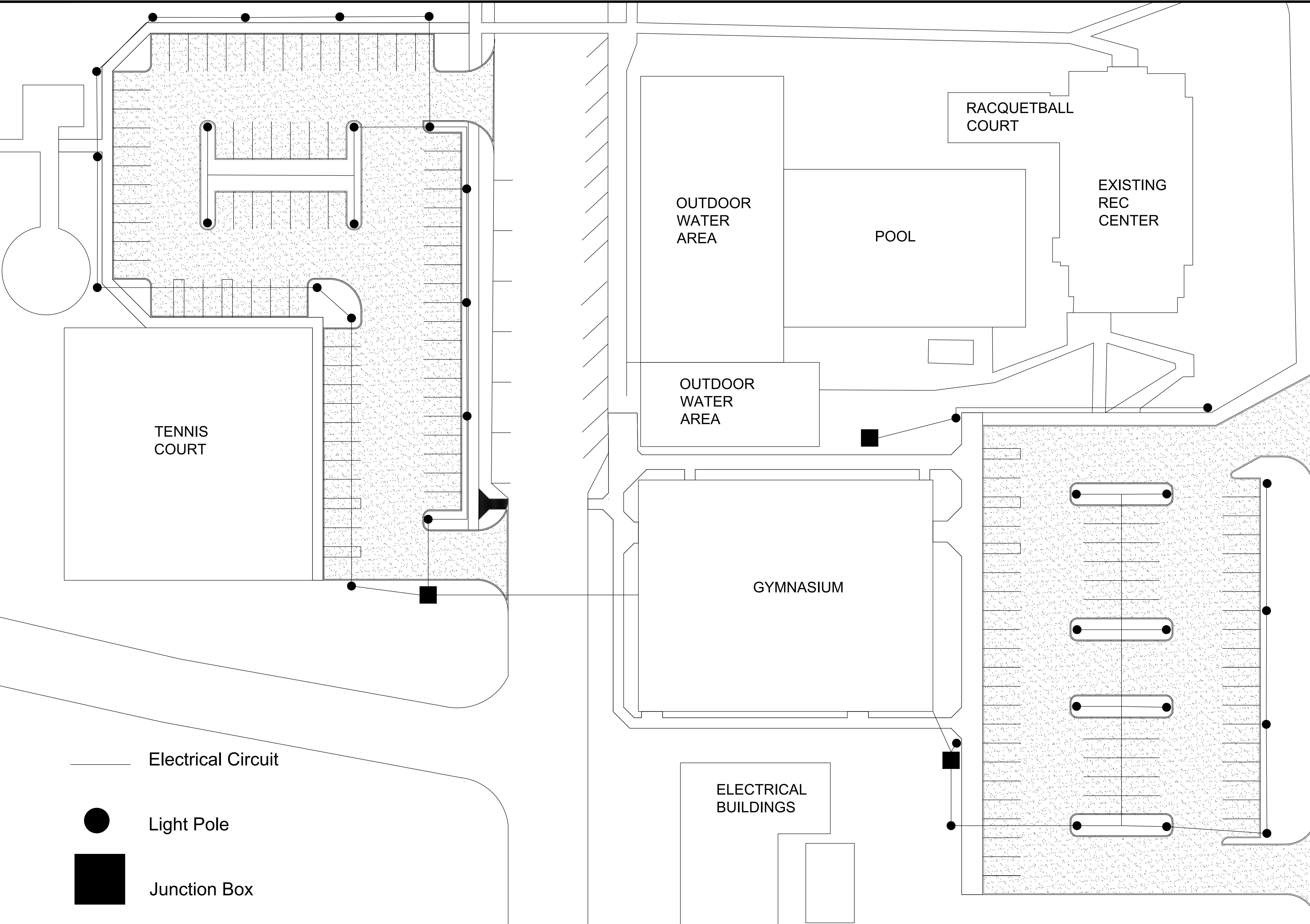
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702 6TH ST
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SHEET NAME
DRAINAGE PLAN

SHEET NO.
C1.08



TENNIS COURT

OUTDOOR WATER AREA

RACQUETBALL COURT

EXISTING REC CENTER

POOL

OUTDOOR WATER AREA

GYMNASIUM

ELECTRICAL BUILDINGS

Electrical Circuit

Light Pole

Junction Box

| | |
|-----------|------------|
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| | |
|------------|--------------|
| SHEET NAME | UTILITY PLAN |
| SHEET NO. | C1.09 |

GENERAL NOTES:

GOVERNING BUILDING CODES:

IBC INTERNATIONAL BUILDING CODE 2018
 ASCE 7-16
 AISC STEEL CONSTRUCTION MANUAL 15TH EDITION
 MANNING ZONING ORDINANCE

DESIGN LOADS:

ROOF DEAD LOAD: **20 PSF**
 SECOND FLOOR DEAD LOAD: **66 PSF**
 FIRST FLOOR DEAD LOAD: **70 PSF**

ROOF LIVE LOAD: **20 PSF**

THIRD FLOOR LIVE LOADS:

KITCHEN: **150 PSF**
 ASSEMBLY: **100 PSF**
 BATHROOMS: **60 PSF**

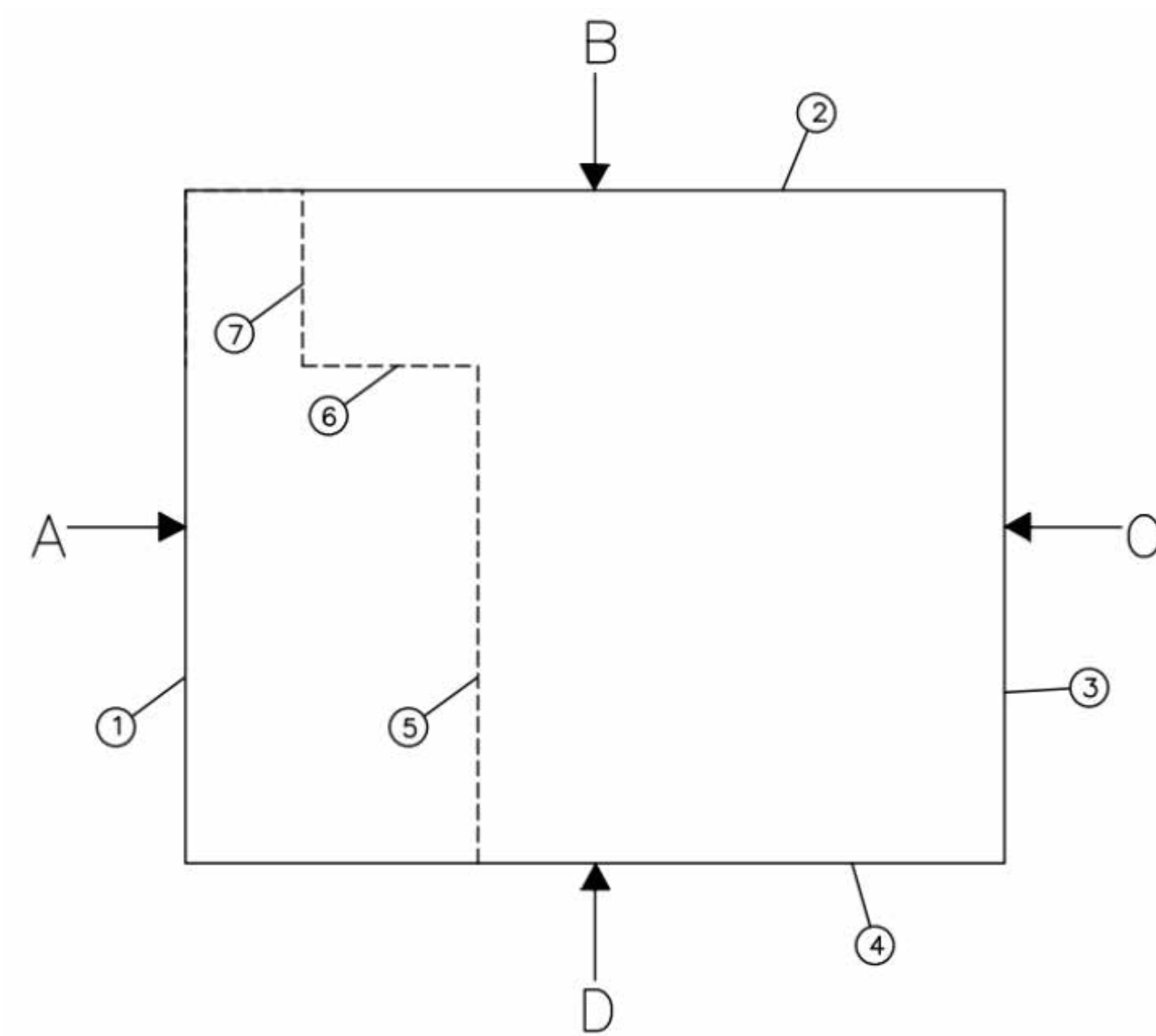
SECOND FLOOR LIVE LOADS:

ASSEMBLY: **100 PSF**
 BATHROOMS: **60 PSF**

BALANCED SNOW LOAD: **70 PSF**

1. Ground snow load: $P_g = 25$ PSF
2. Snow exposure factor: $C_e = 0.9$
3. Snow load importance factor: $I_s = 1.10$
4. Thermal factor: $C_t = 1.0$

WIND LOAD:



WIND VELOCITY: $V = 119$ mph

TOPOGRAPHY: $K_{zt} = 1.0$

DIRECTIONALITY FACTOR: $K_d = 0.85$

EXPOSURE B

GROUND ELEVATION FACTOR: 0.952

INTERNAL PRESSURE COEFFICIENTS: $GC_{pi} = \pm 0.18$

WALL PRESSURE COEFFICIENTS:

EAST AND WEST:

WINDWARD: $C_p = 0.8$
 LEEWARD: $C_p = -0.457$
 SIDE WALLS: $C_p = -0.7$

NORTH AND SOUTH:

WINDWARD: $C_p = 0.8$
 LEEWARD: $C_p = -0.536$
 SIDE WALLS: $C_p = -0.7$

ROOF PRESSURE COEFFICIENTS: ANGLE < 10 DEGREES

(0 to $h/2$) AND ($h/2$ to h): $C_p = -0.9$
 (h to $2h$): $C_p = -0.5$
 (> $2h$): $C_p = -0.3$

STRUCTURAL STEEL:

OPEN WEB JOISTS:

STRENGTH: 50 KSI

W-SHAPE GIRDERS AND COLUMNS:

ASTM A992: STRENGTH: $F_y = 50$ KSI

BASE PLATES:

ASTM A36: STRENGTH: $F_y = 36$ KSI

SHEAR TAB CONNECTION PLATES:

ASTM A36: STRENGTH: $F_y = 36$ KSI

BOLTS:

ASTM F3125 GRADE A325: STRENGTH: $F_u = 120$ KSI

WELDS:

E70: STRENGTH: $F_y = 70$ KSI

CONCRETE:

FLOOR SLABS ON THIRD AND SECOND FLOOR:

LIGHTWEIGHT CONCRETE:

STRENGTH: $f'_c = 2500$ PSI

UNIT WEIGHT: $w_c = 115$ PCF

FIRST FLOOR SLAB, PEDESTALS, FOUNDATION WALL, SPREAD FOOTINGS:

NORMAL WEIGHT CONCRETE:

STRENGTH: $f'_c = 3500$ PSI

UNIT WEIGHT: $w_c = 150$ PCF

REBAR:

PEDESTAL, FOUNDATION WALL, SPREAD FOOTINGS:

STRENGTH: $f_y = 60$ KSI

FOUNDATIONS:

ALLOWABLE BEARING PRESSURE: $q = 1500$ PSF

FIRST STORY COLUMN SCHEDULE:

| # | LENGTH: | SHAPE: | # | LENGTH: | SHAPE: |
|----|---------|--------|----|---------|--------|
| A1 | 14 FT | W8x31 | F4 | 14 FT | W8x31 |
| C1 | 14 FT | W8x31 | H4 | 14 FT | W8x31 |
| D1 | 14 FT | W8x31 | A5 | 14 FT | W8x31 |
| E1 | 14 FT | W8x31 | F5 | 14 FT | W8x31 |
| A2 | 14 FT | W8x31 | H5 | 14 FT | W8x31 |
| A3 | 14 FT | W8x31 | A6 | 14 FT | W8x31 |
| B3 | 14 FT | W8x48 | B6 | 14 FT | W8x58 |
| C3 | 14 FT | W8x48 | C6 | 14 FT | W8x67 |
| D3 | 14 FT | W8x67 | D6 | 14 FT | W8x48 |
| E3 | 14 FT | W8x67 | E6 | 14 FT | W8x48 |
| F3 | 14 FT | W8x67 | F6 | 14 FT | W8x48 |
| H3 | 14 FT | W8x31 | H6 | 14 FT | W8x31 |
| A4 | 14 FT | W8x31 | | | |

SECOND STORY COLUMN SCHEDULE:

| # | LENGTH: | SHAPE: | # | LENGTH: | SHAPE: |
|----|---------|--------|----|---------|--------|
| A1 | 19 FT | W8x31 | F4 | 19 FT | W8x31 |
| C1 | 19 FT | W8x31 | H4 | 19 FT | W8x31 |
| D1 | 19 FT | W8x31 | A5 | 19 FT | W8x31 |
| E1 | 19 FT | W8x31 | F5 | 19 FT | W8x31 |
| A2 | 19 FT | W8x31 | H5 | 19 FT | W8x31 |
| A3 | 19 FT | W8x31 | A6 | 19 FT | W8x31 |
| B3 | 19 FT | W8x48 | B6 | 19 FT | W8x58 |
| C3 | 19 FT | W8x48 | C6 | 19 FT | W8x67 |
| D3 | 19 FT | W8x67 | D6 | 19 FT | W8x48 |
| E3 | 19 FT | W8x67 | E6 | 19 FT | W8x48 |
| F3 | 19 FT | W8x67 | F6 | 19 FT | W8x48 |
| H3 | 19 FT | W8x31 | H6 | 19 FT | W8x31 |
| A4 | 19 FT | W8x31 | | | |

THIRD STORY COLUMN SCHEDULE:

| # | LENGTH: | SHAPE: | # | LENGTH: | SHAPE: |
|----|---------|--------|----|---------|--------|
| C1 | 15 FT | W8x31 | H3 | 15 FT | W8x31 |
| D1 | 15 FT | W8x31 | H4 | 15 FT | W8x31 |
| E1 | 15 FT | W8x31 | H5 | 15 FT | W8x31 |
| B3 | 15 FT | W8x31 | C6 | 15 FT | W8x31 |
| C3 | 15 FT | W8x31 | D6 | 15 FT | W8x31 |
| D3 | 15 FT | W8x31 | E6 | 15 FT | W8x31 |
| E3 | 15 FT | W8x31 | F6 | 15 FT | W8x31 |
| F3 | 15 FT | W8x31 | H6 | 15 FT | W8x31 |

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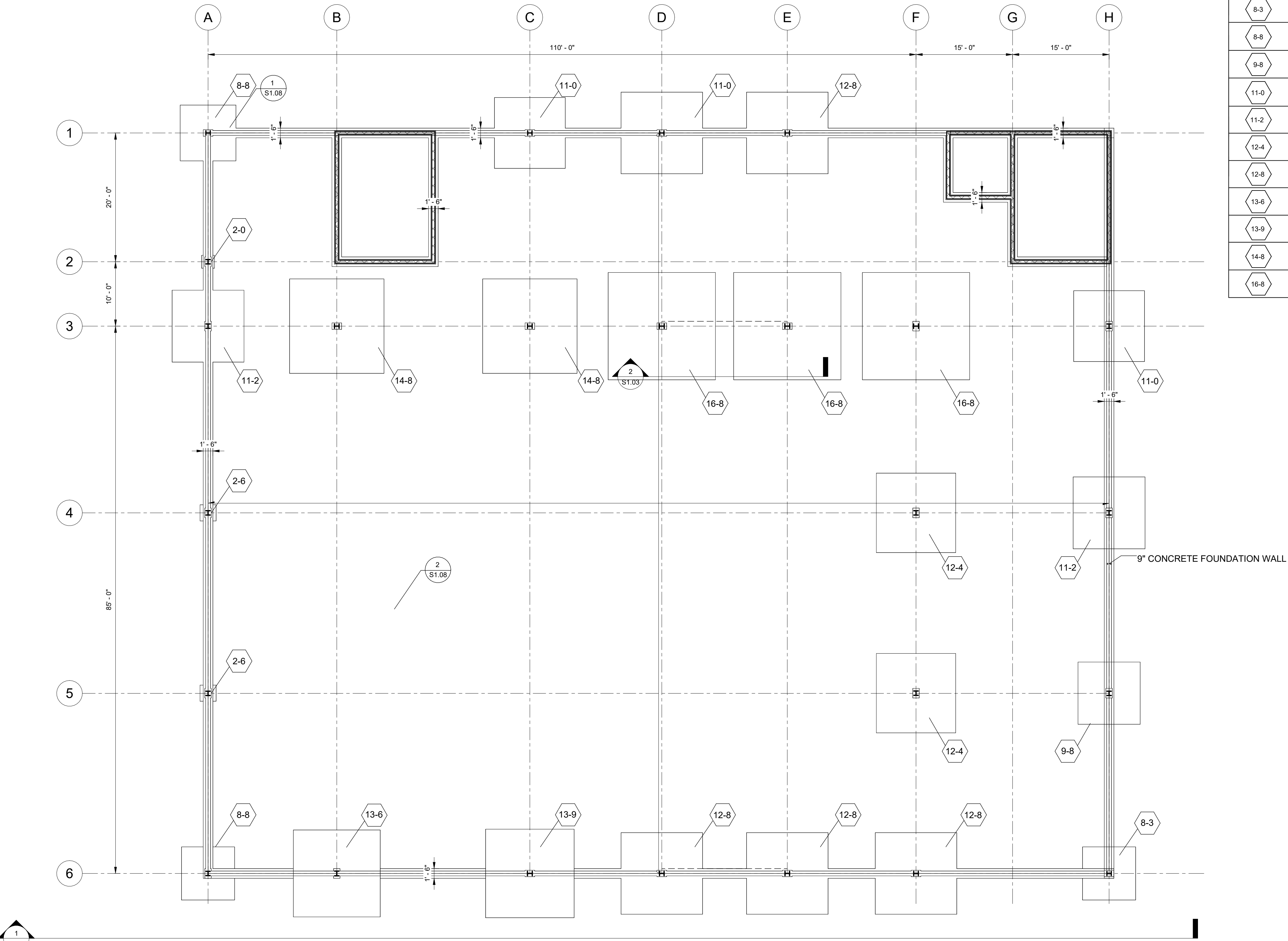


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 MANNING, IA

SHEET NAME
 STRUCTURAL COVER SHEET

SHEET NO.
S1.01



1 FOUNDATION PLAN
1/8" = 1'-0"

| CONCRETE FOOTING SCHEDULE: | | |
|-------------------------------------|---------------------------------------|---|
| ALLOWABLE BRG PRESSURE: 1500 PSF | CONCRETE STRENGTH: 3500 PSF | REBAR STRENGTH: 60 PSF |
| TYPE | FOOTING SIZE (FT.) THICKNESS (IN.) | QTY/SIZE OF BARS EACH WAY BOTTOM (U.N.O) |
| 2-0 | 2'-0" x 2'-0" x 10" | (2) #4 x 8" |
| 2-6 | 2'-6" x 2'-6" x 10" | (2) #4 x 12" |
| 8-3 | 8'-3" x 8'-3" x 18" | (8) #4 x 12" |
| 8-8 | 8'-8" x 8'-8" x 18" | (8) #4 x 13" |
| 9-8 | 9'-8" x 9'-8" x 20" | (8) #4 x 14" |
| 11-0 | 11'-0" x 11'-0" x 30" | (8) #4 x 16" |
| 11-2 | 11'-2" x 11'-2" x 30" | (8) #4 x 16" |
| 12-4 | 12'-4" x 12'-4" x 34" | (12) #6 x 12" |
| 12-8 | 12'-8" x 12'-8" x 34" | (12) #6 x 12" |
| 13-6 | 13'-6" x 13'-6" x 38" | (20) #8 x 8" |
| 13-9 | 13'-9" x 13'-9" x 38" | (20) #8 x 8" |
| 14-8 | 14'-8" x 14'-8" x 38" | (16) #8 x 10" |
| 16-8 | 16'-8" x 16'-8" x 38" | (26) #8 x 6" |

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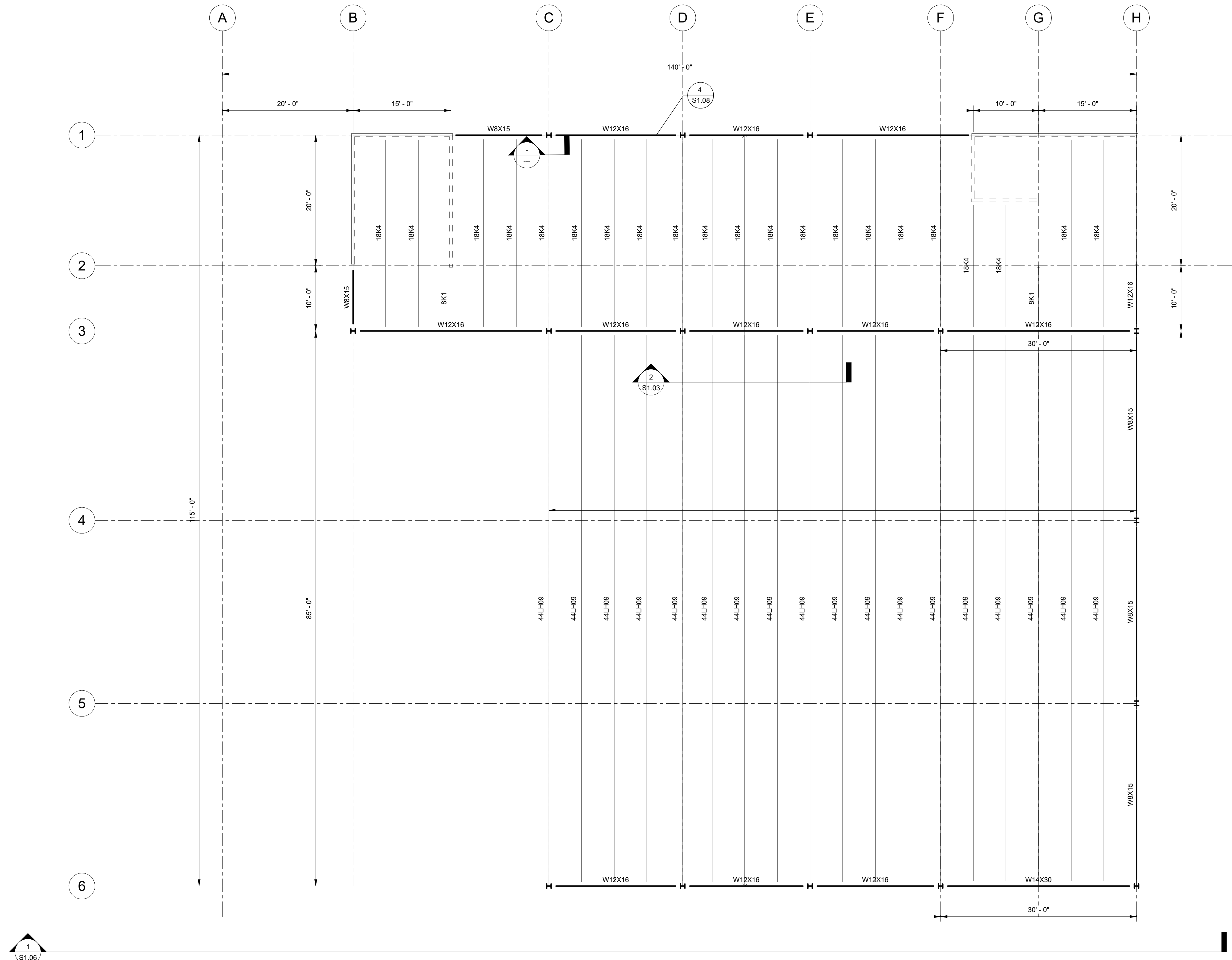
MANNING GYMNASIUM

MANNING, IA

SHEET NAME
FOUNDATION
PLAN

SHEET NO.
S1.02

1 ROOF FRAMING PLAN
1/8" = 1'-0"



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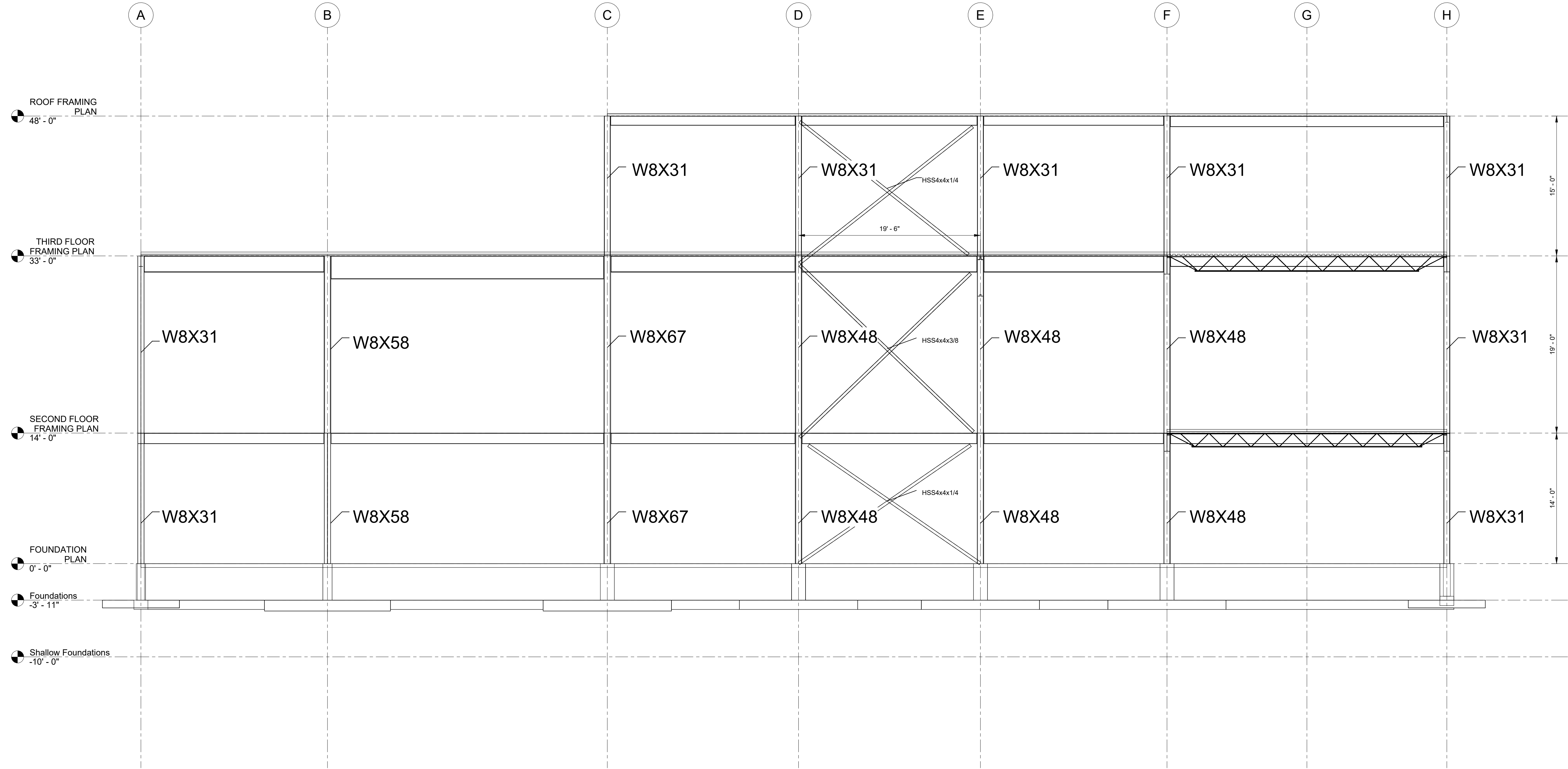
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MANNING GYMNASIUM

MANNING, IA

SHEET NAME
ROOF FRAMING PLAN

SHEET NO.
S1.05



1 ELEVATION VIEW- SOUTH
3/16" = 1'-0"

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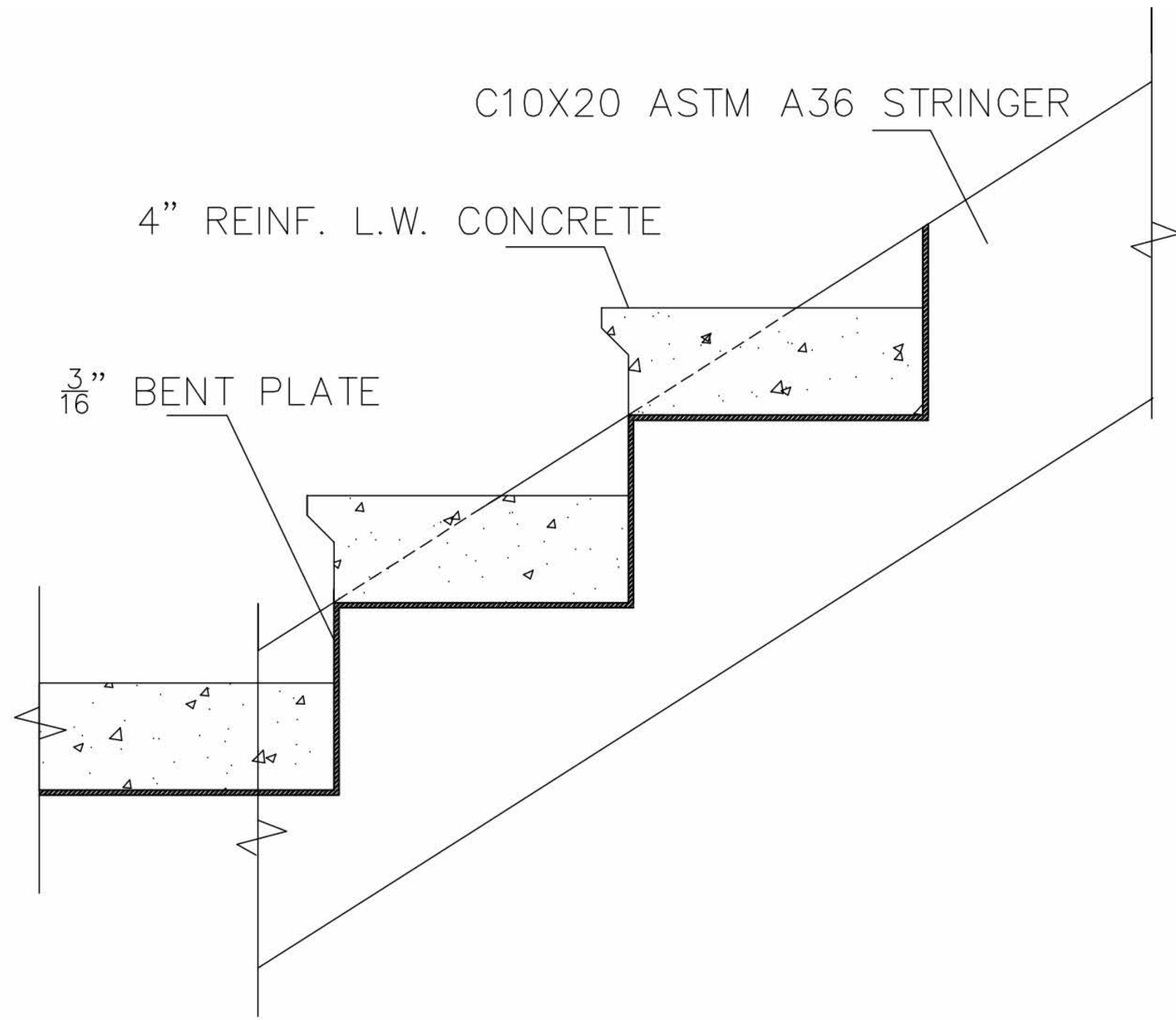
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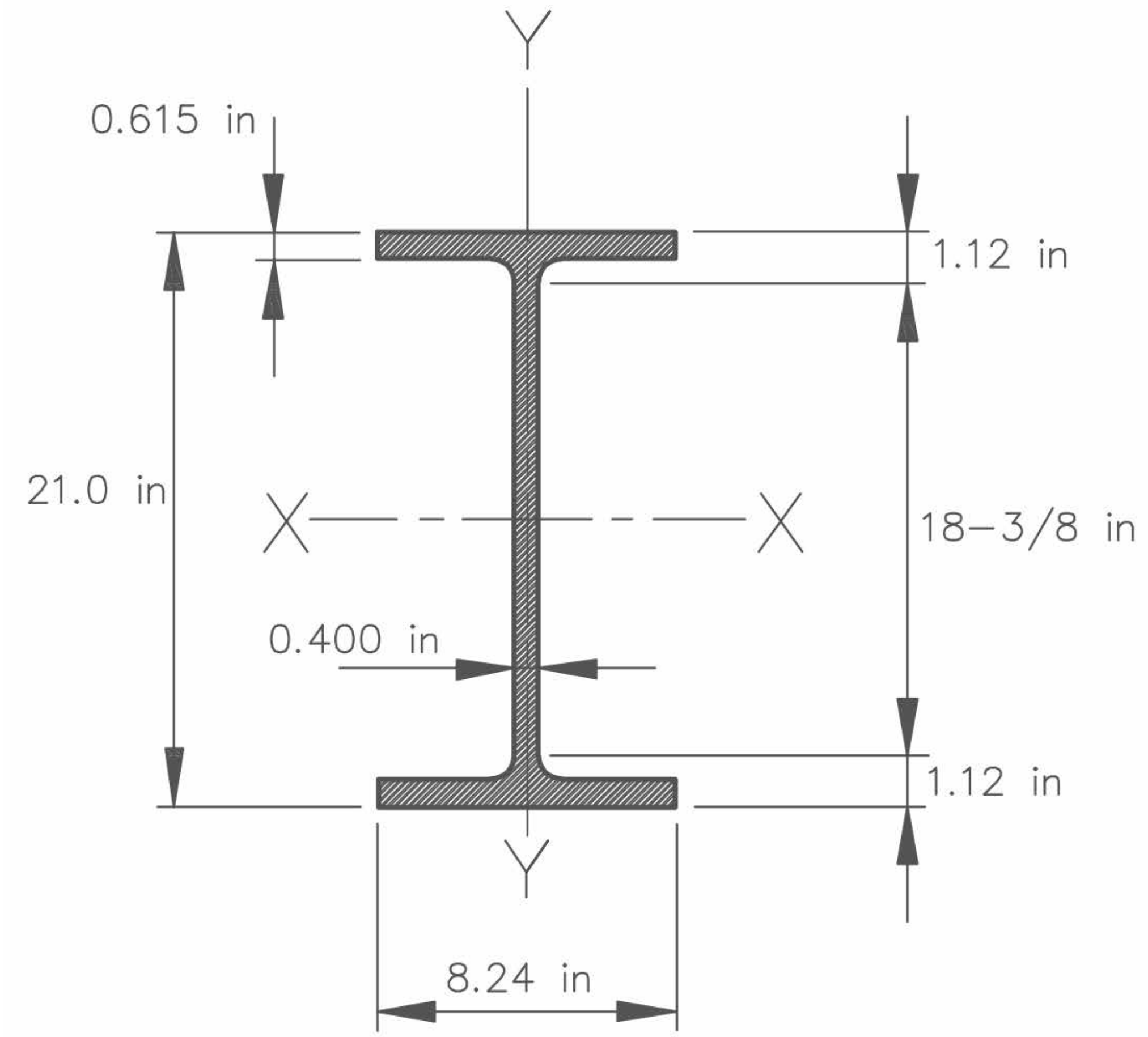
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SHEET NAME
 ELEVATION VIEW- SOUTH

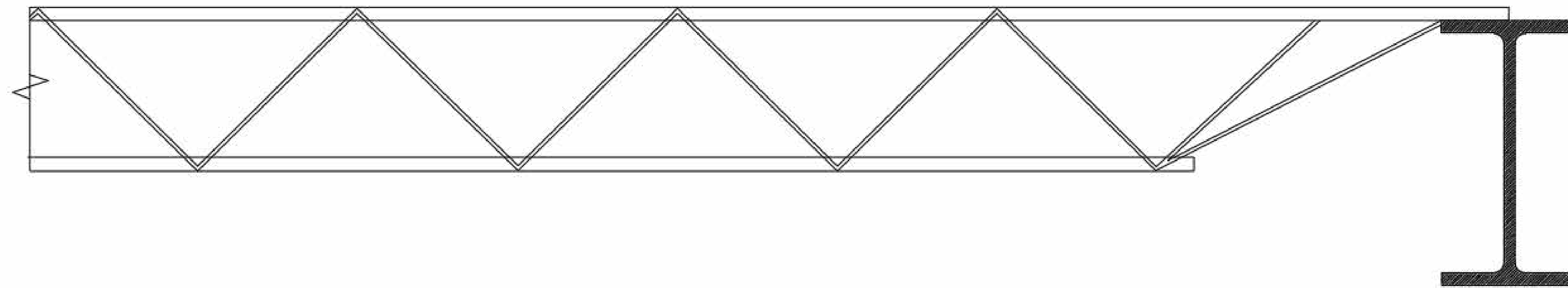
SHEET NO.
S1.06



1 STRUCTURAL STAIRCASE DETAIL
S1.07 SCALE: NOT TO SCALE



2 WIDE FLANGE GIRDER CROSS SECTION: W 21X62
S1.07 SCALE: NOT TO SCALE



3 OPEN WEB JOIST TO WIDE FLANGE GIRDER
S1.07 SCALE: NOT TO SCALE

PROJECT: CEE-4850
DATE: 04/07/2023
DRAWN BY: bvr
REVISION:

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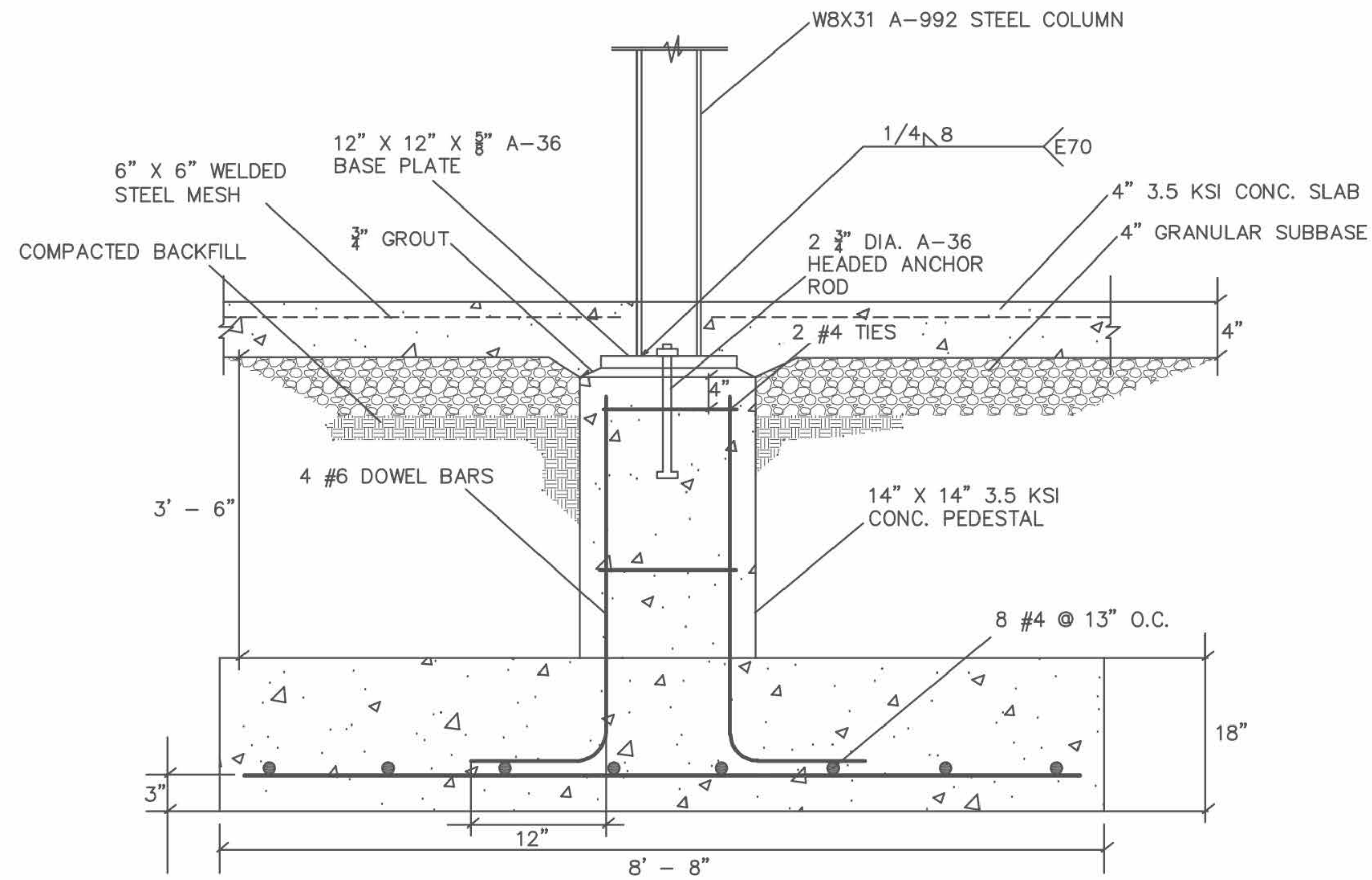
MANNING GYMNASIUM

MANNING, IA

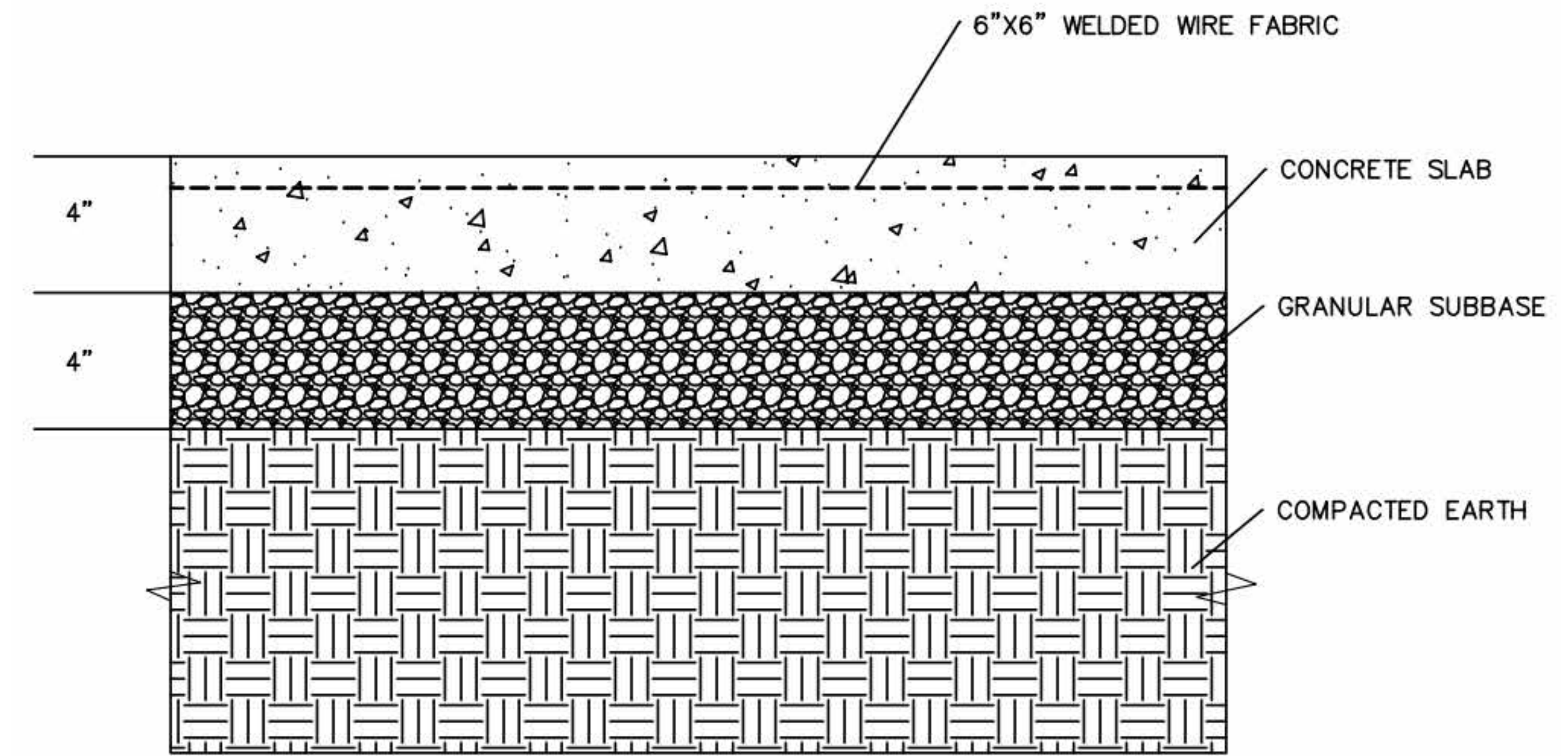
SHEET NAME
STRUCTURAL
DETAILS

SHEET NO.

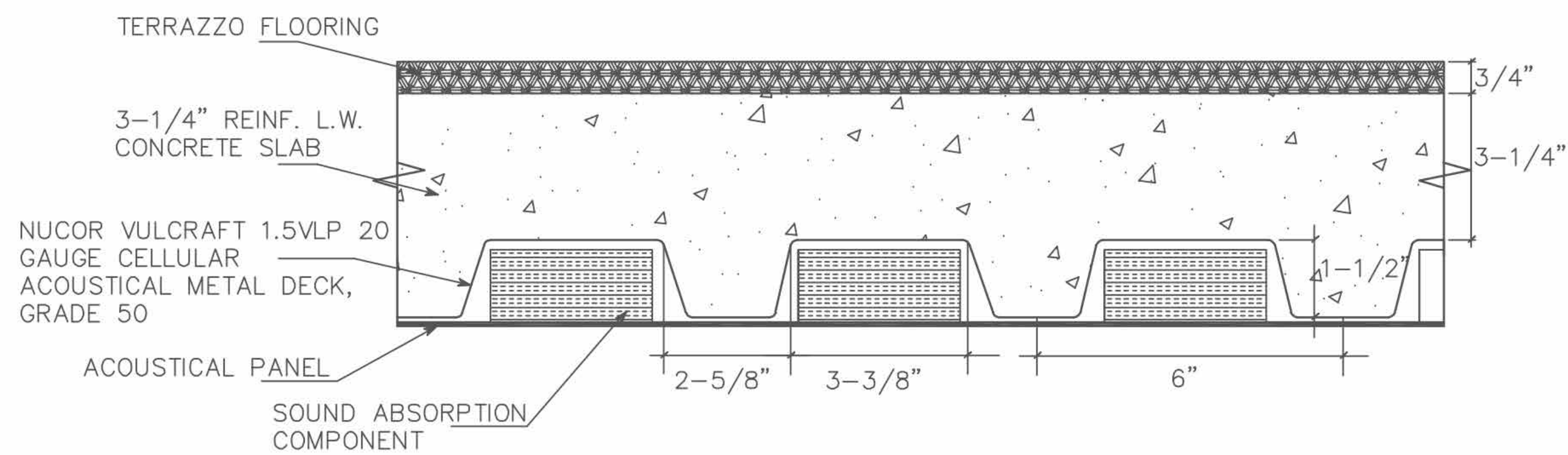
S1.07



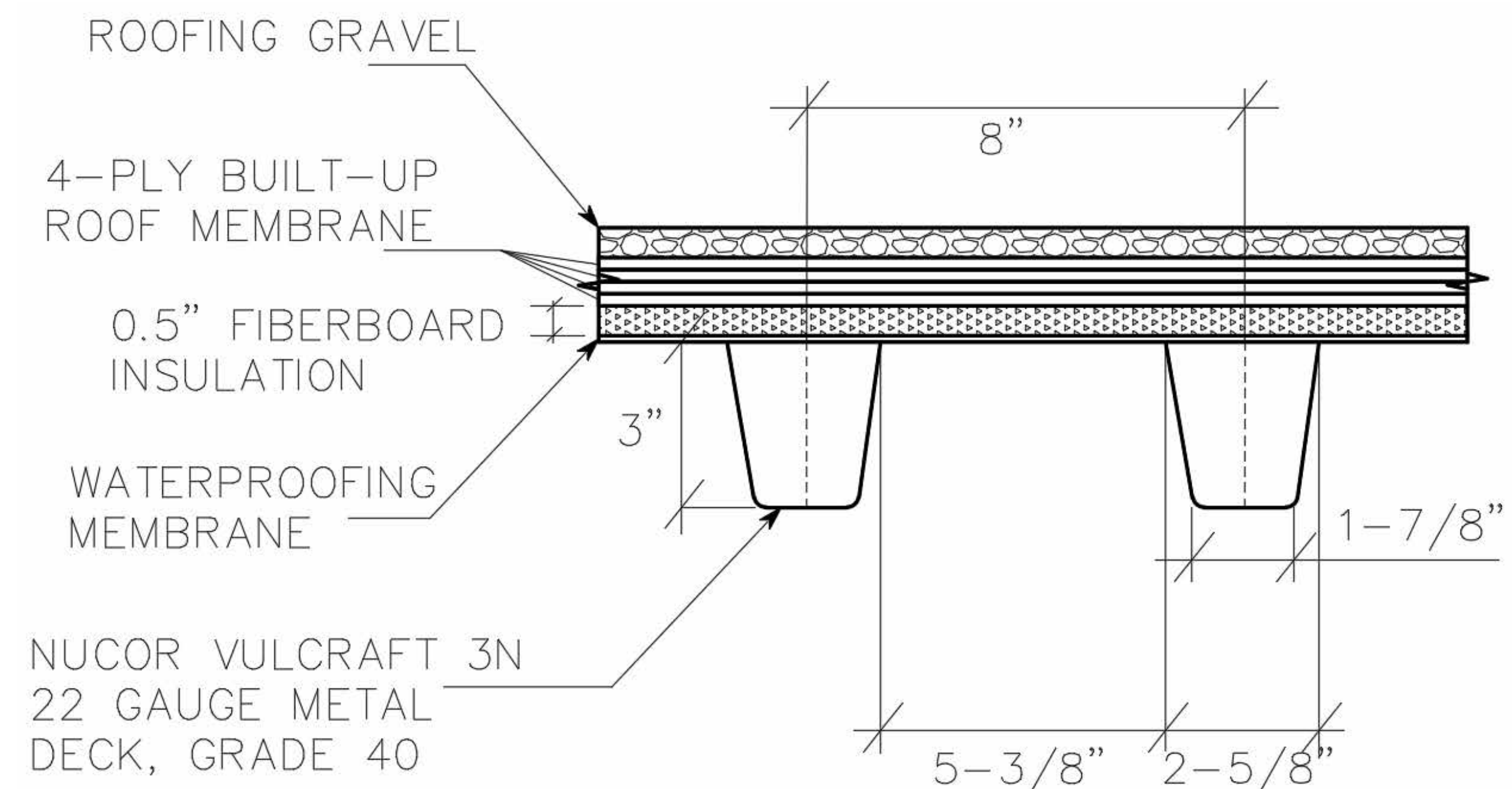
1 PEDESTAL TO FOOTING: 8' - 8" X 8' - 8" SQUARE FOOTING
 S1.08 SCALE: NOT TO SCALE



2 SLAB ON GRADE ELEVATION VIEW
 S1.08 SCALE: NOT TO SCALE



3 FLOOR CROSS SECTION: NONCOMPOSITE ACOUSTICAL CELLULAR DECK
 S1.08 SCALE: NOT TO SCALE



4 ROOF CROSS SECTION
 S1.08 SCALE: NOT TO SCALE

PROJECT: CEE:4850
 DATE: 04/07/2023
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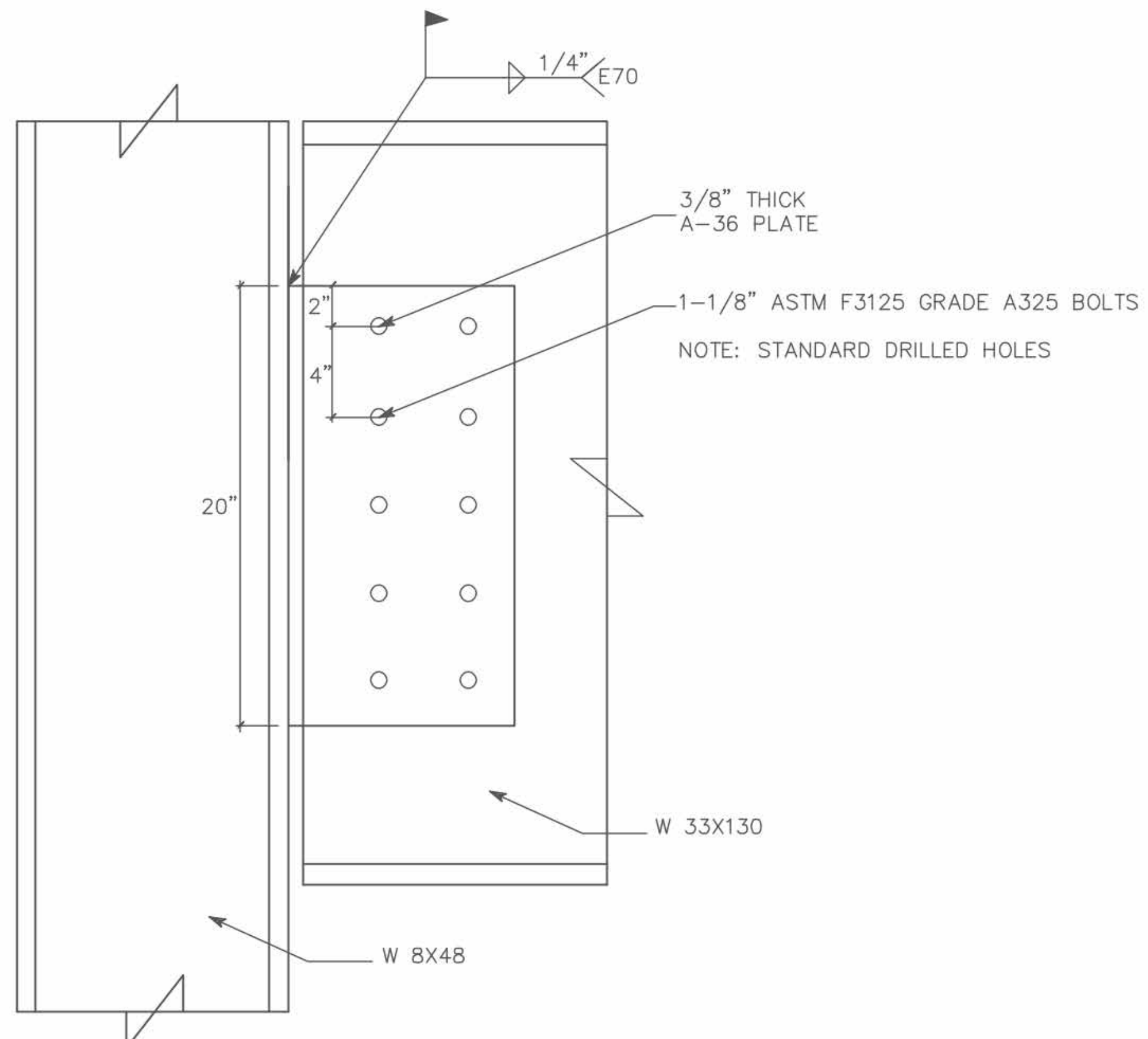
MANNING GYMNASIUM

MANNING, IA

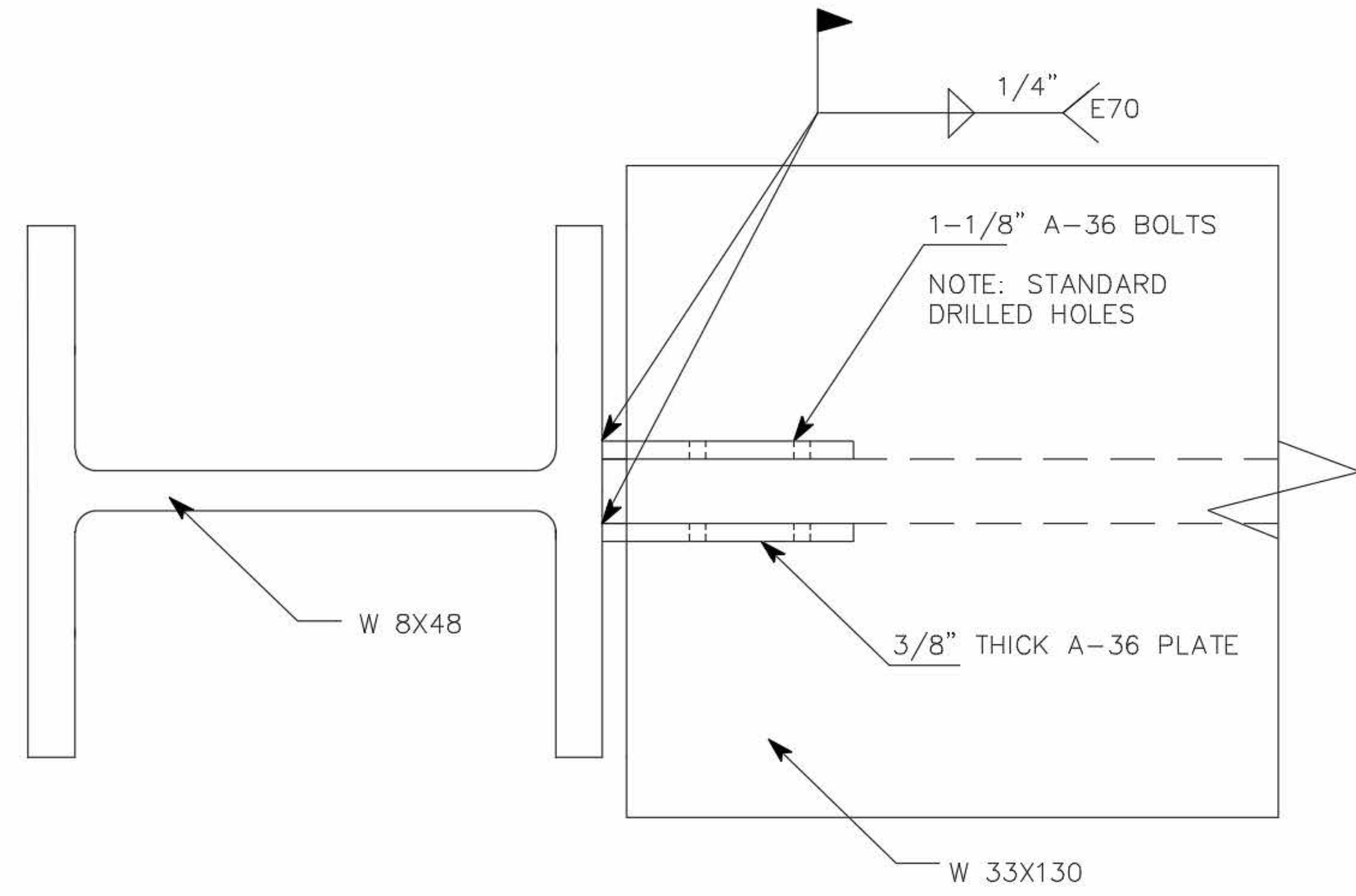
SHEET NAME
 STRUCTURAL
 DETAILS

SHEET NO.

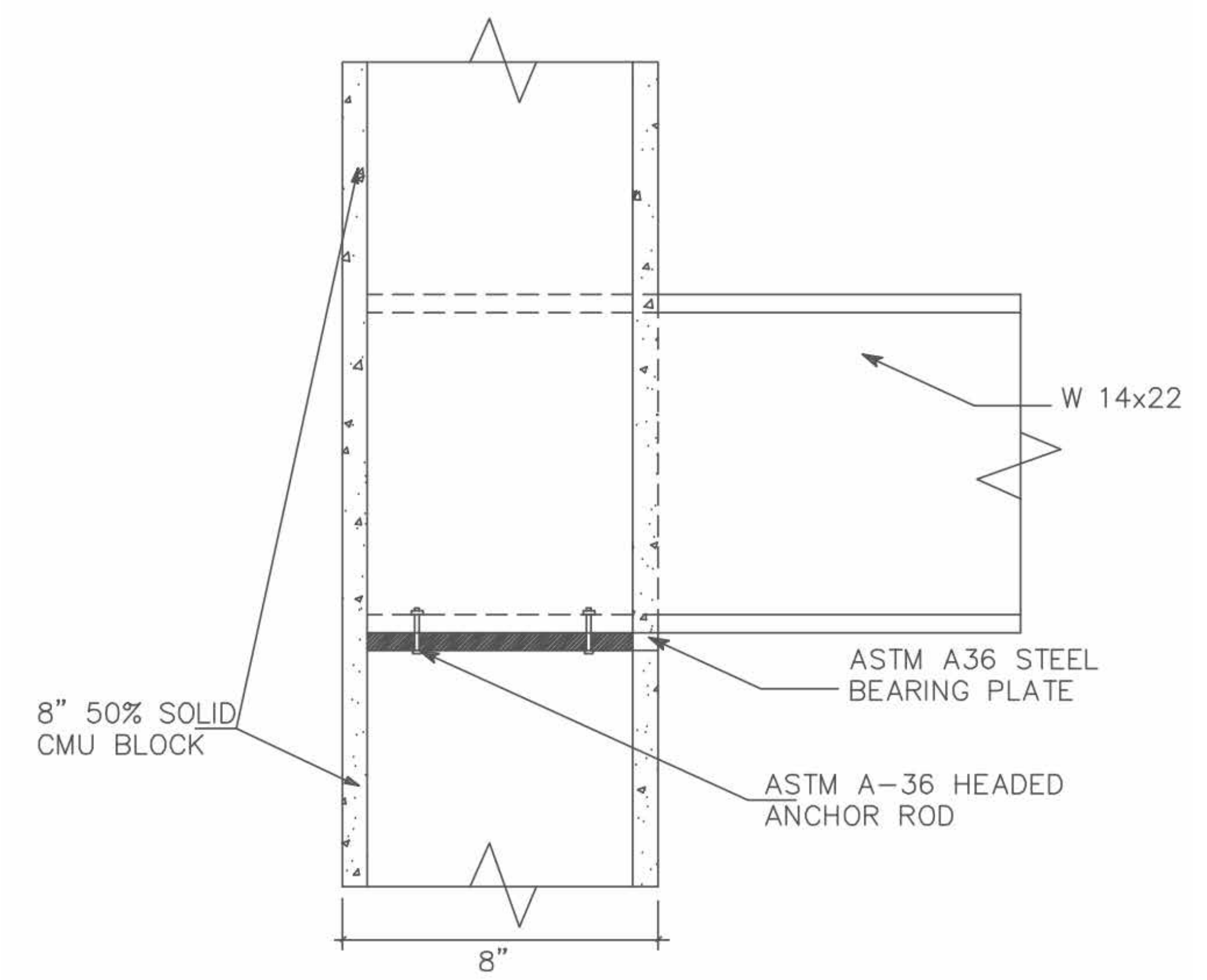
S1.08



1 SHEAR CONNECTION: ELEVATION VIEW
S1.09 SCALE: NOT TO SCALE



2 SHEAR CONNECTION: PLAN VIEW
S1.09 SCALE: NOT TO SCALE



3 GIRDER ON CMU WALL: ELEVATION VIEW
S1.09 SCALE: NOT TO SCALE

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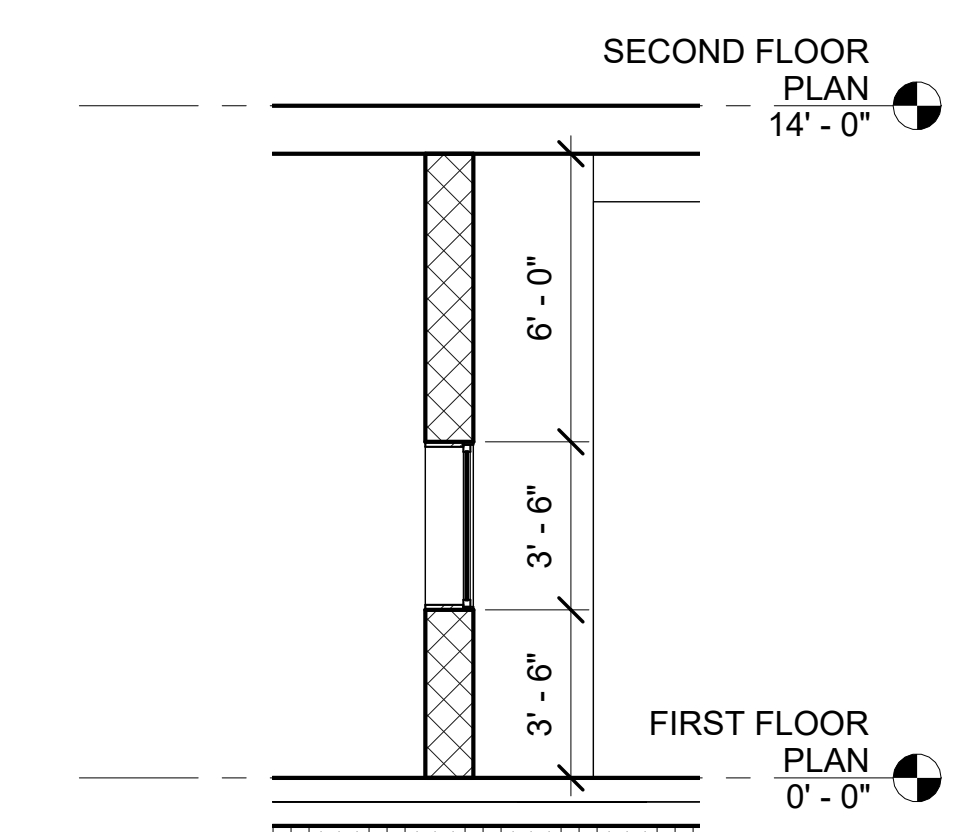
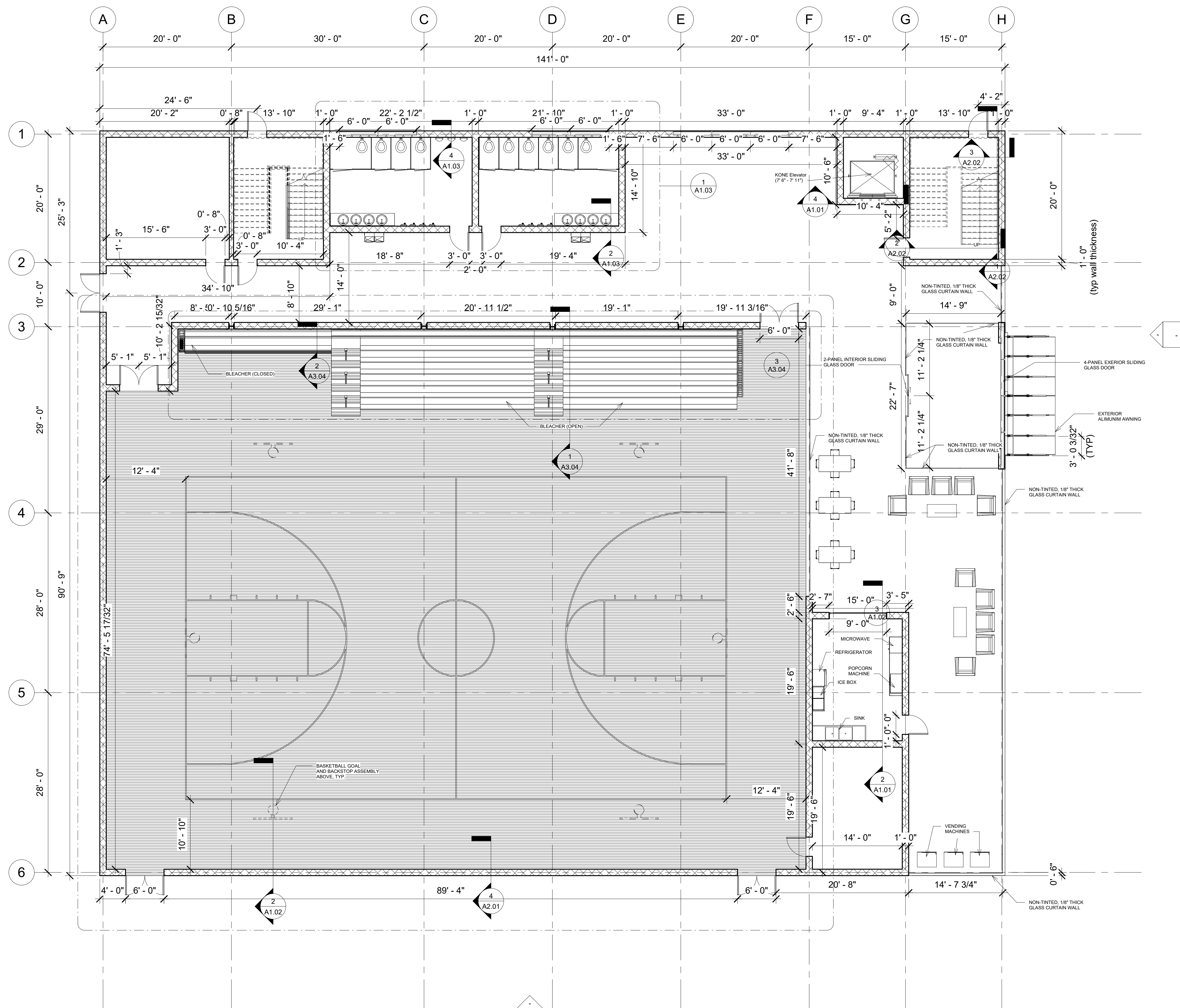
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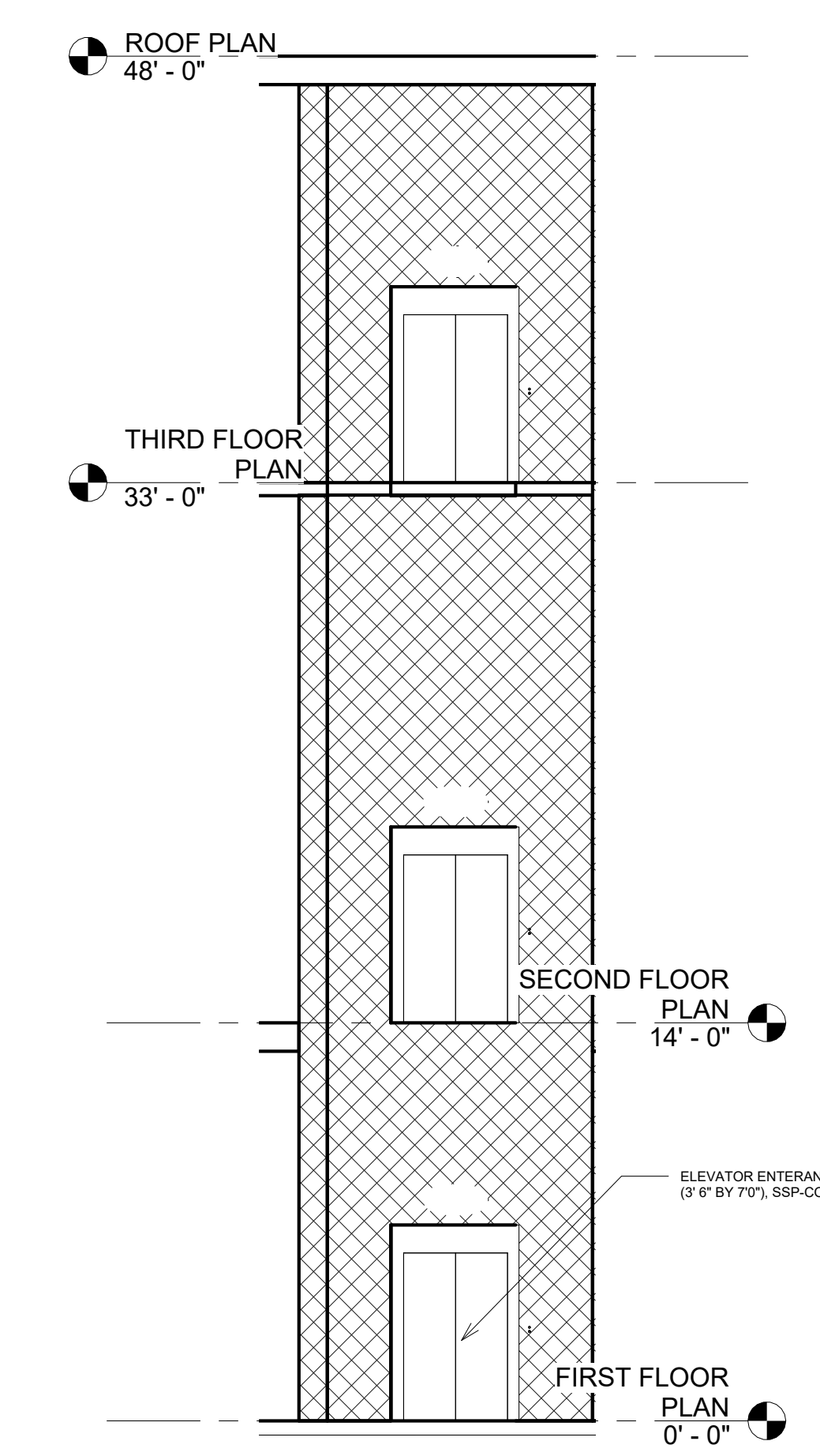
MANNING, IA

SHEET NAME
STRUCTURAL DETAILS

SHEET NO.
S1.09



2 Concession Window
1/4" = 1'-0"



4 Elevator Door
3/16" = 1'-0"

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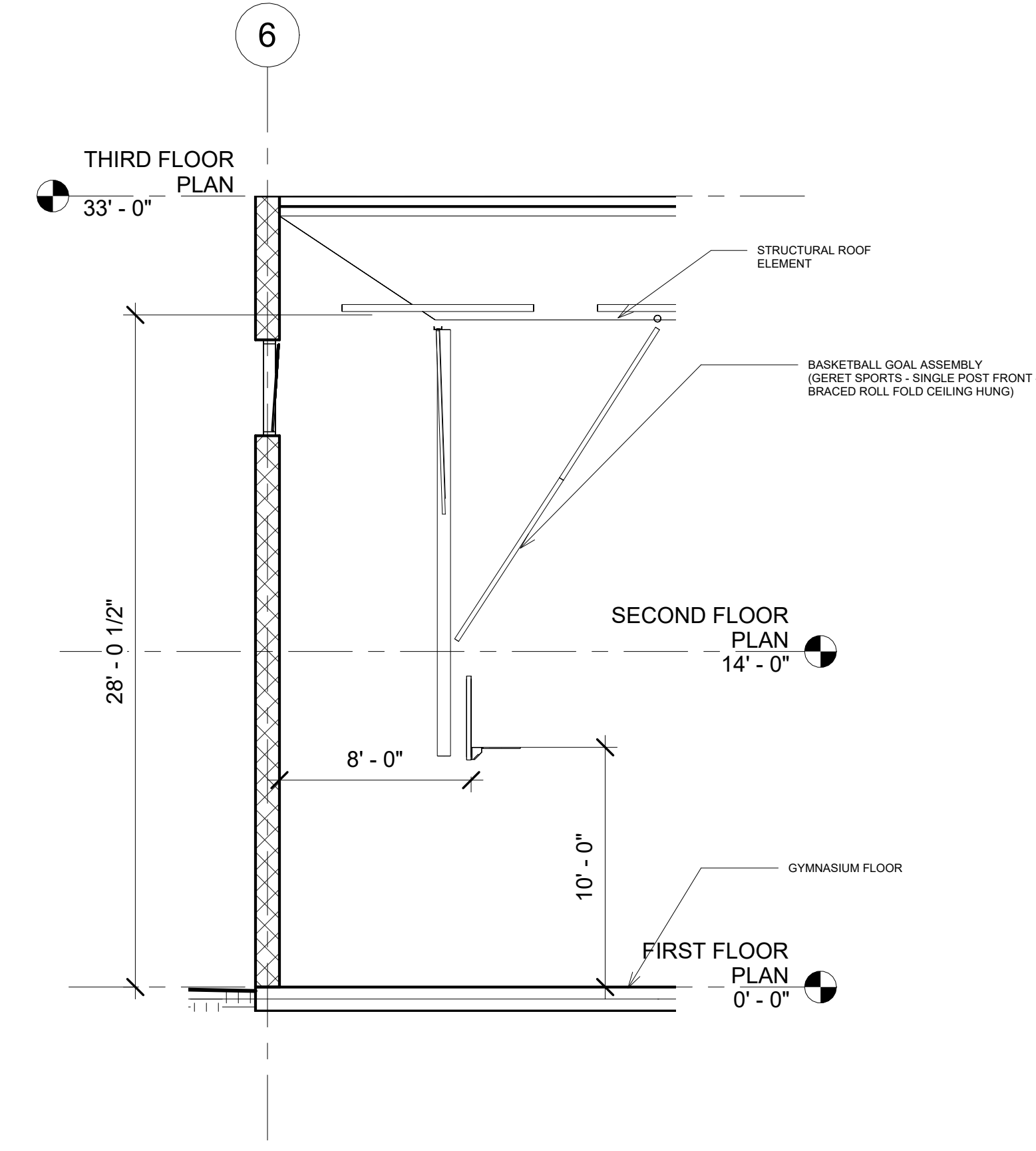
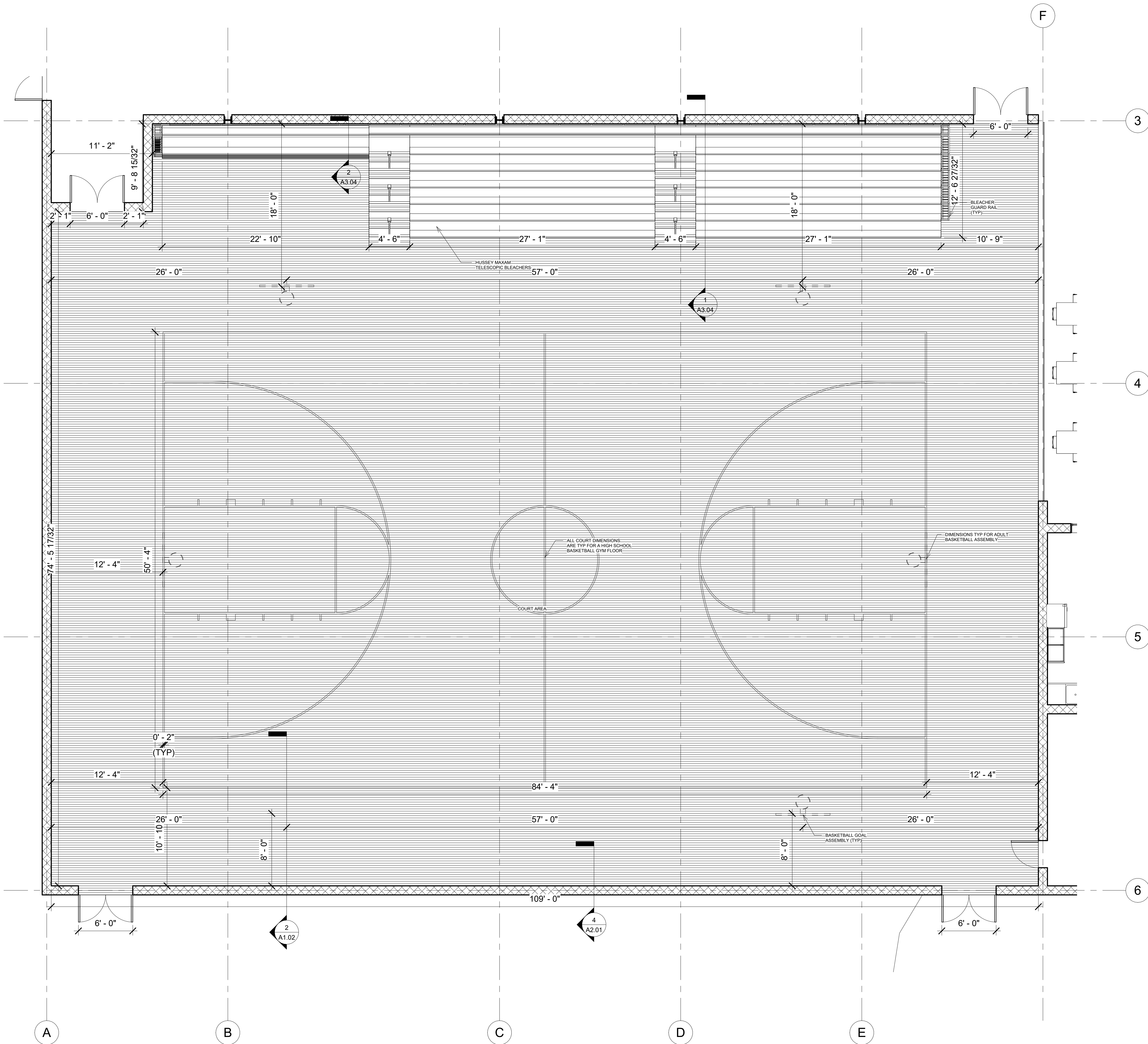
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IOWA

SHEET NAME
ARCHITECTURE
GROUND FLOOR

SHEET NO.
A1.01



2 Basketball Hoop
3/16" = 1'-0"

3 GYMNASIUM PLAN
3/16" = 1'-0"

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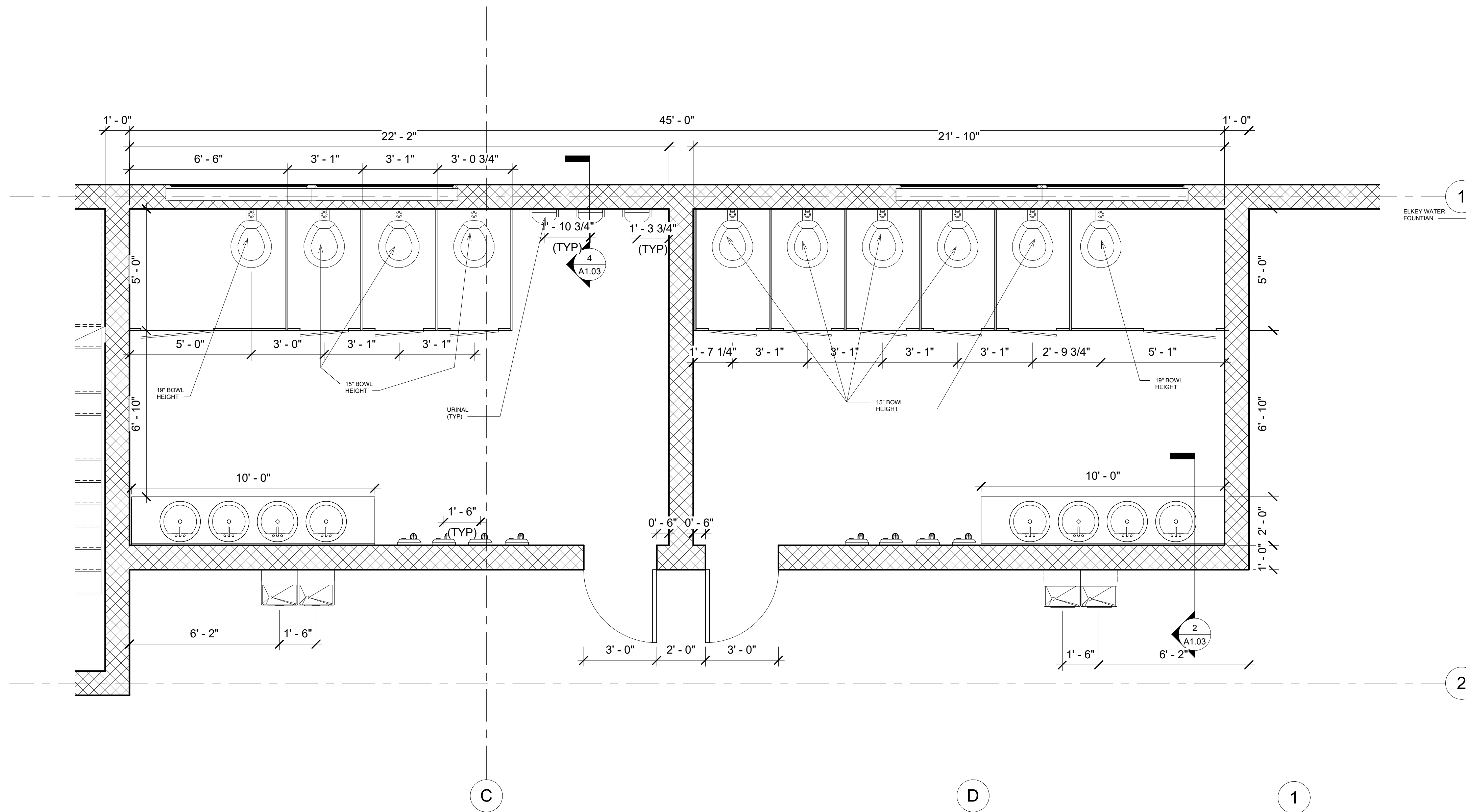
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MANNING GYMNASIUM

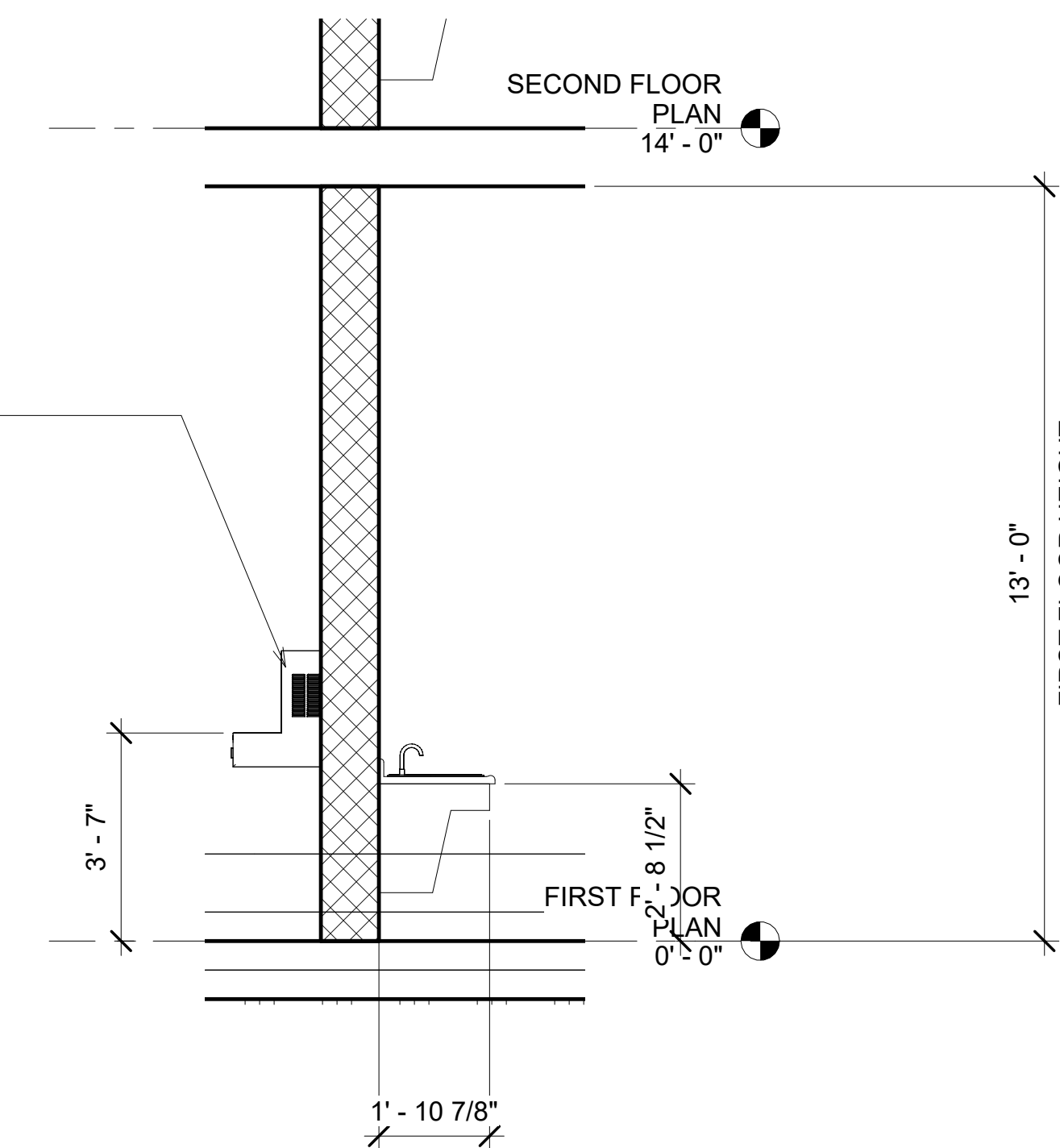
MANNING,
IOWA

SHEET NAME
ARCHITECTURE
GYMNASIUM

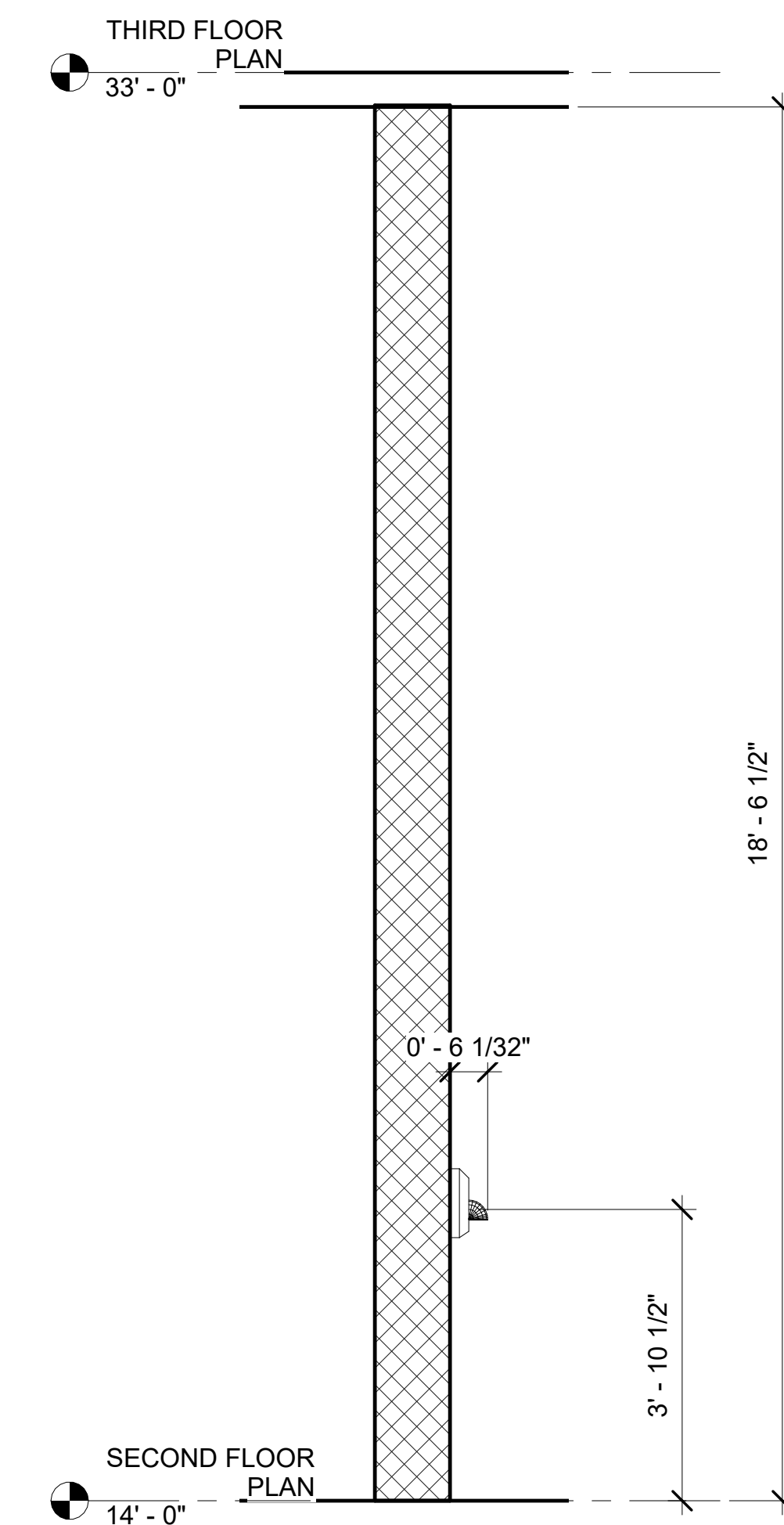
SHEET NO.
A1.02



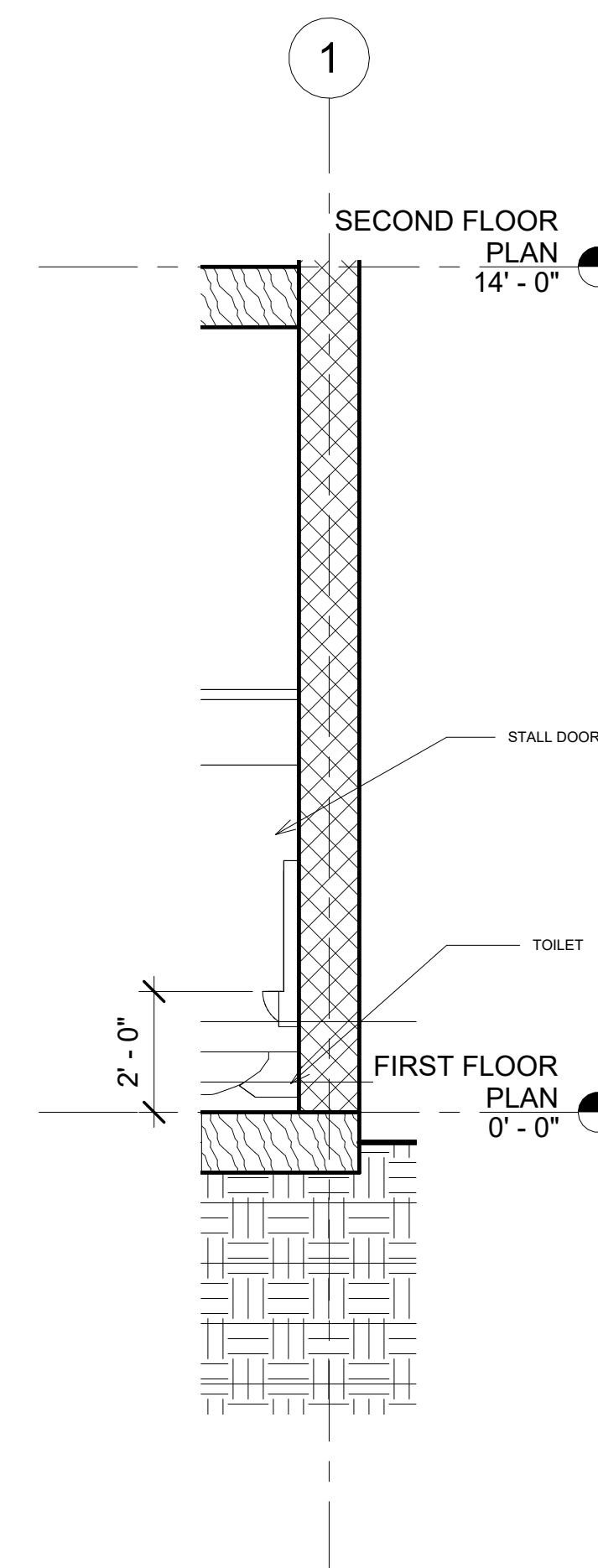
1 FIRST/SECOND FLOOR RESTROOM
PLAN
3/8" = 1'-0"



2 Restroom Sink Details
3/8" = 1'-0"

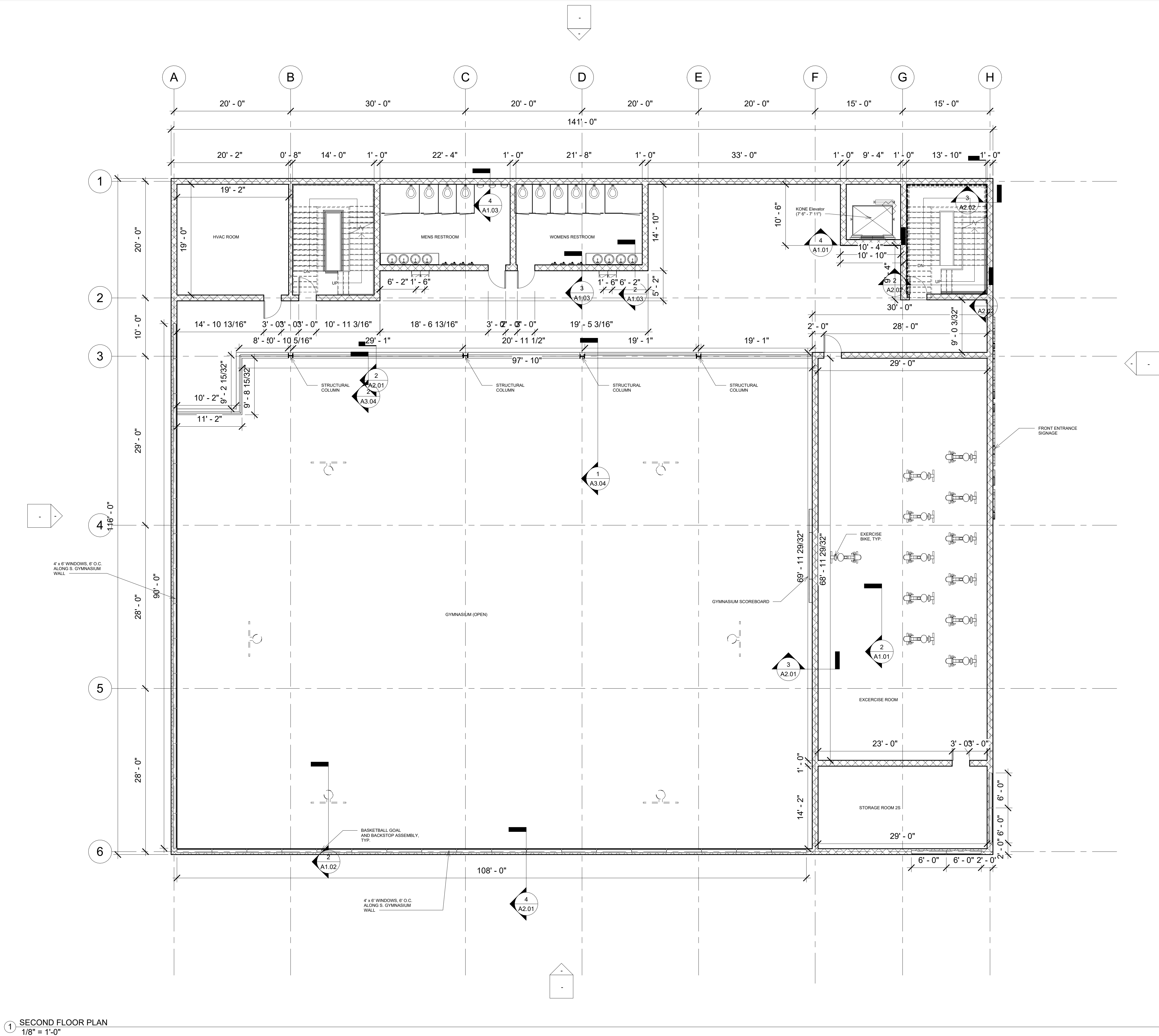


3 Hand Dryer Details
1/2" = 1'-0"

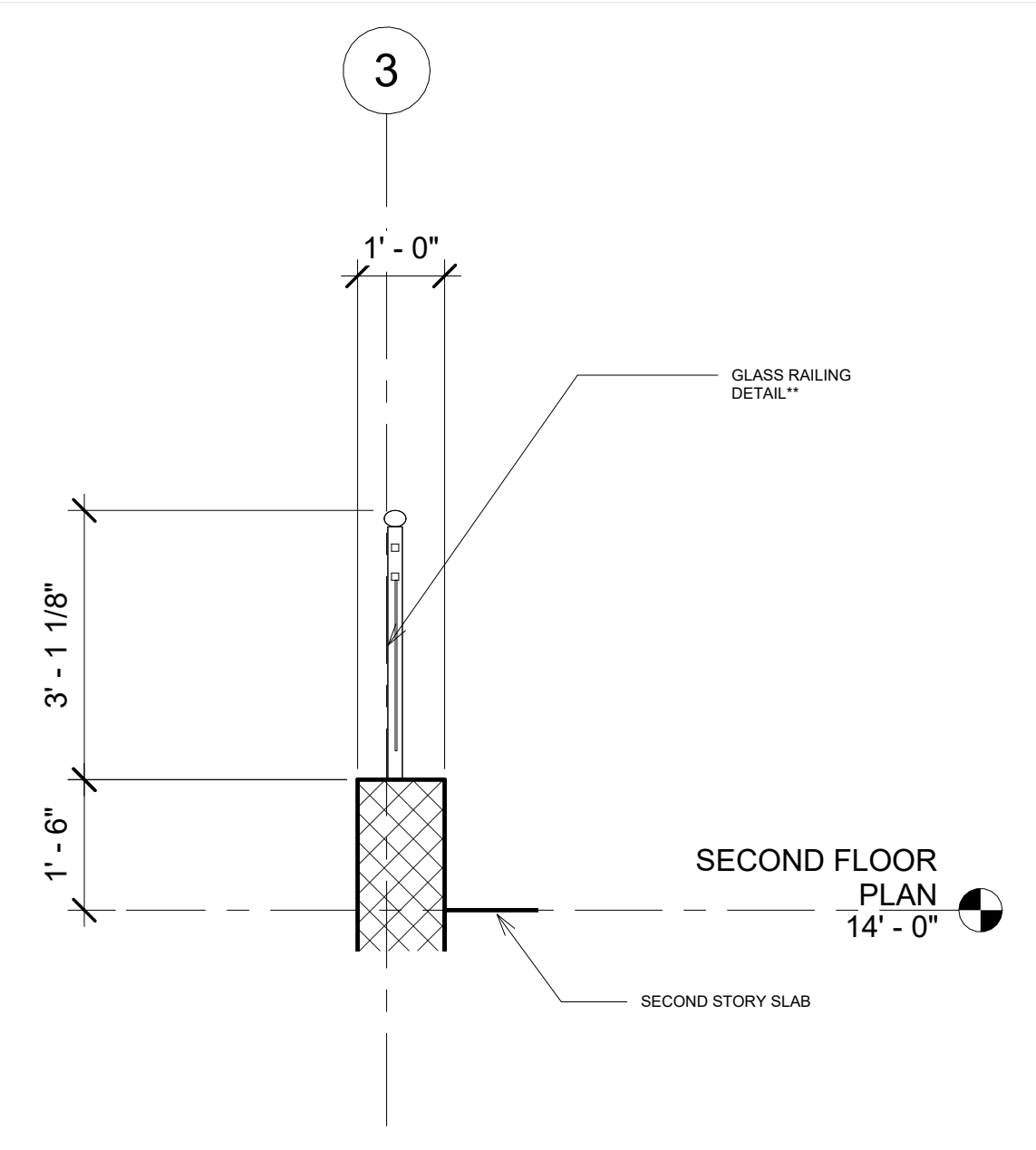


4 First Floor Urinal
3/8" = 1'-0"

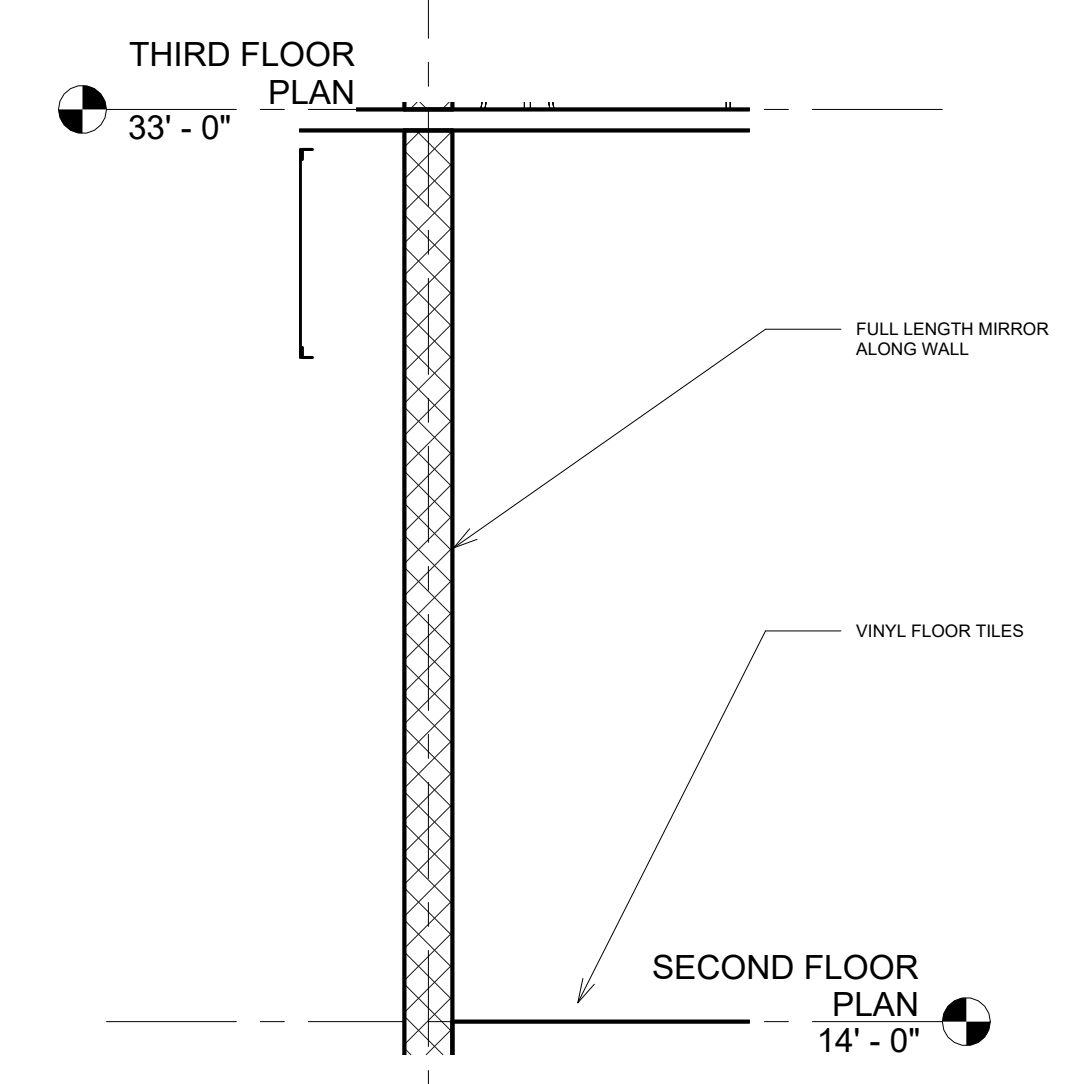
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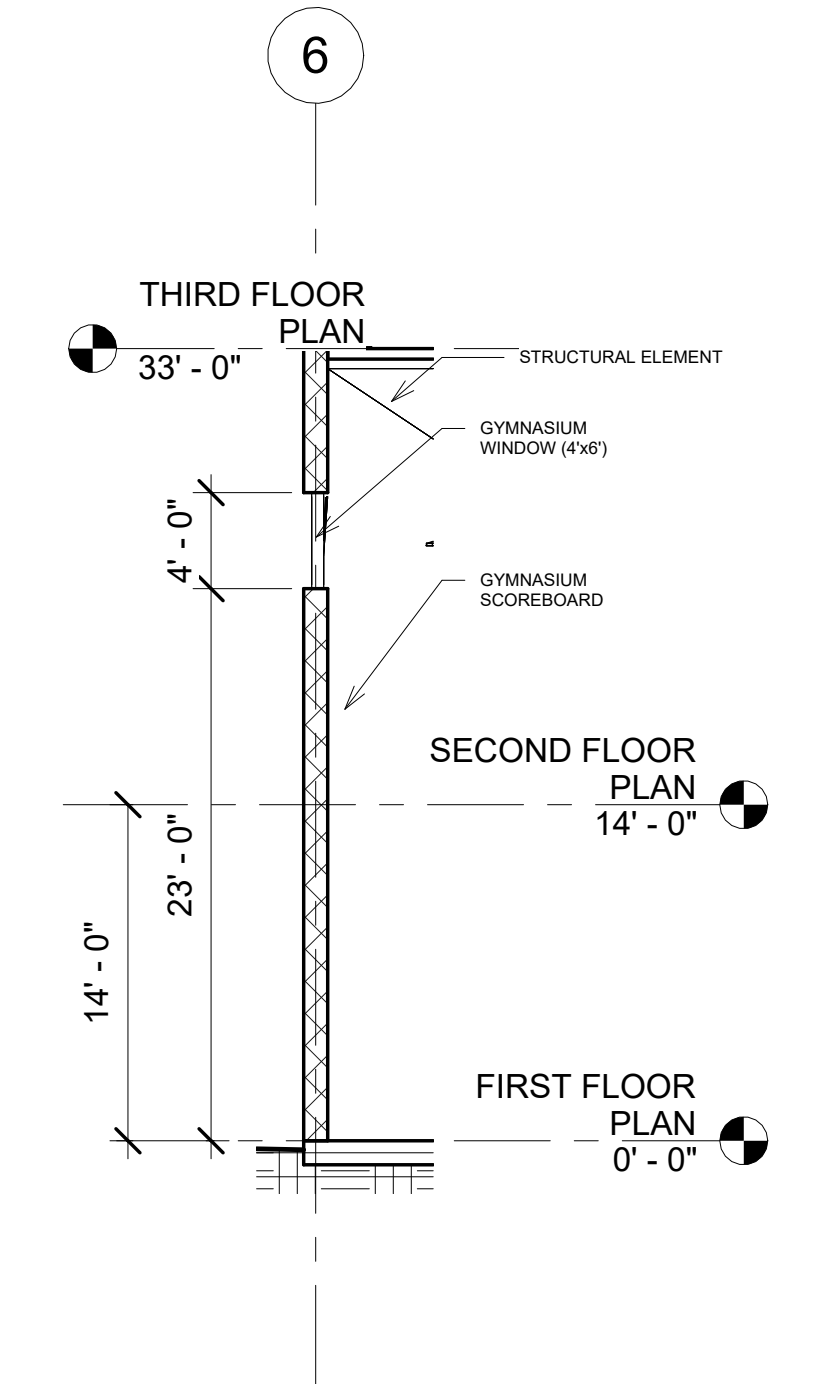
1 SECOND FLOOR PLAN
1/8" = 1'-0"



2 Second Story Overlook Railing
1/2" = 1'-0"



3 Exercise Room Details
1/4" = 1'-0"



4 Scoreboard Details
1/8" = 1'-0"

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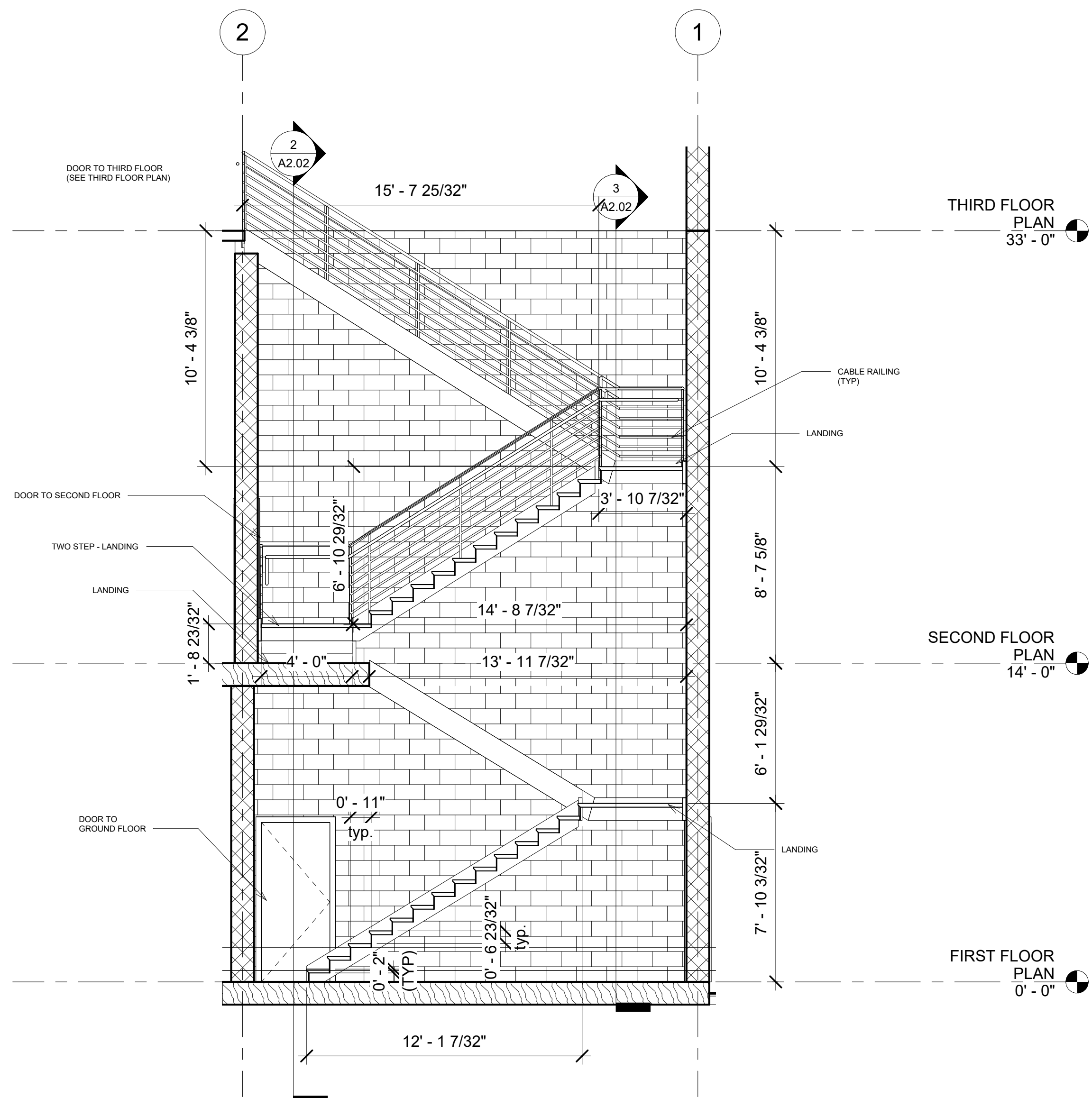
MANNING GYMNASIUM

MANNING, IOWA

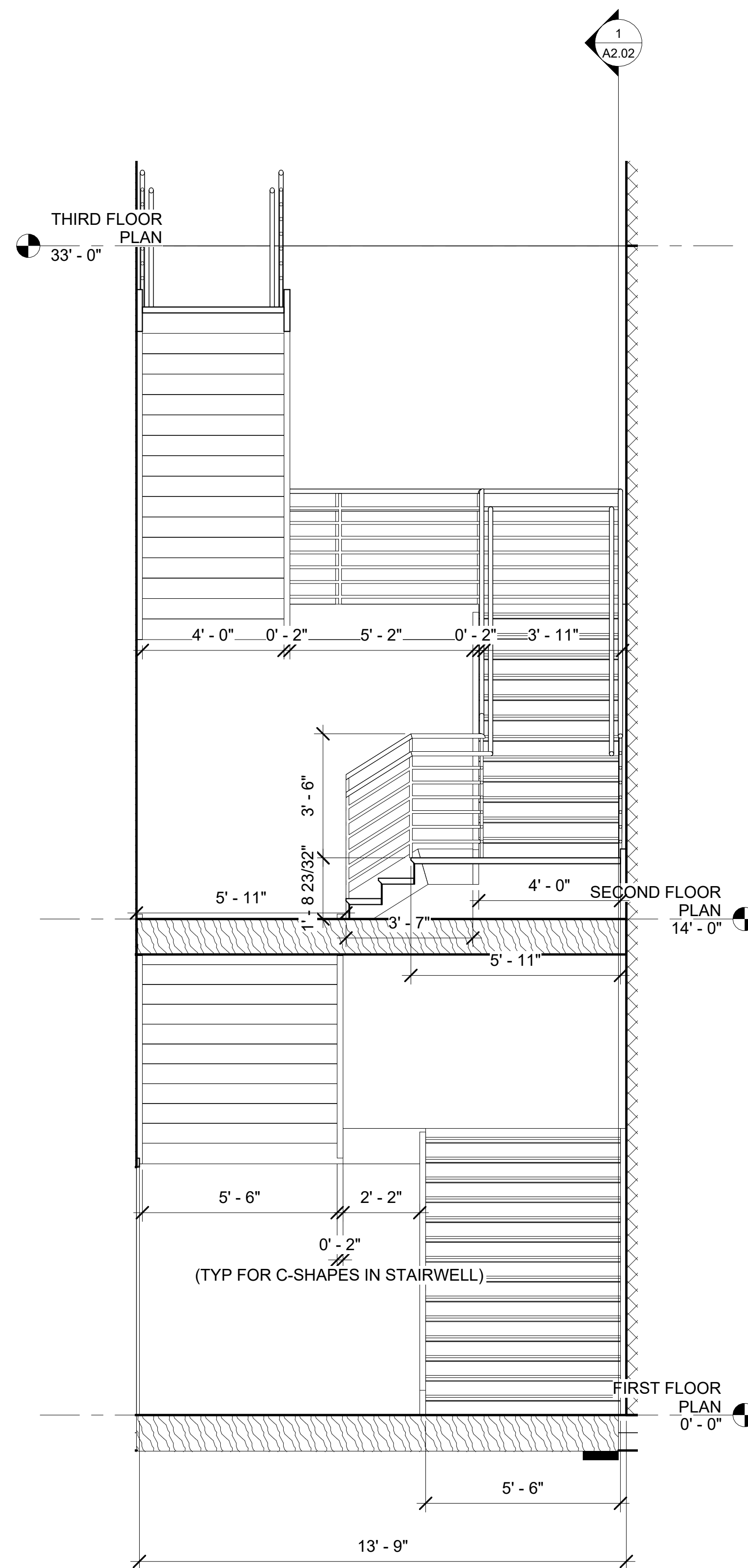
SHEET NAME
ARCHITECTURE
SECOND FLOOR

SHEET NO.

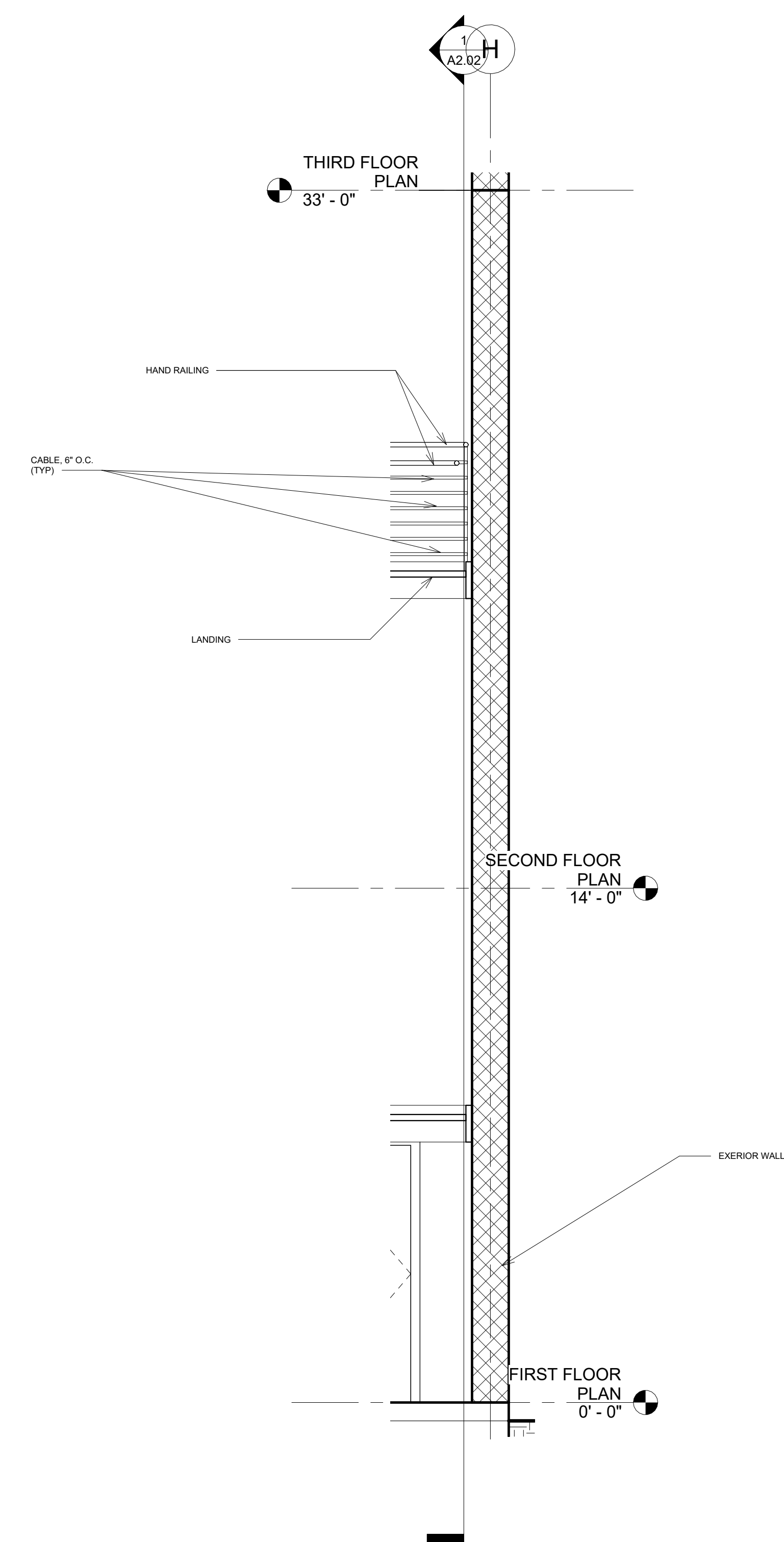
A2.01



① Stairwell
1/4" = 1'-0"



② Stairwell (South View)
3/8" = 1'-0"



③ Stairwell Railing Details
3/8" = 1'-0"

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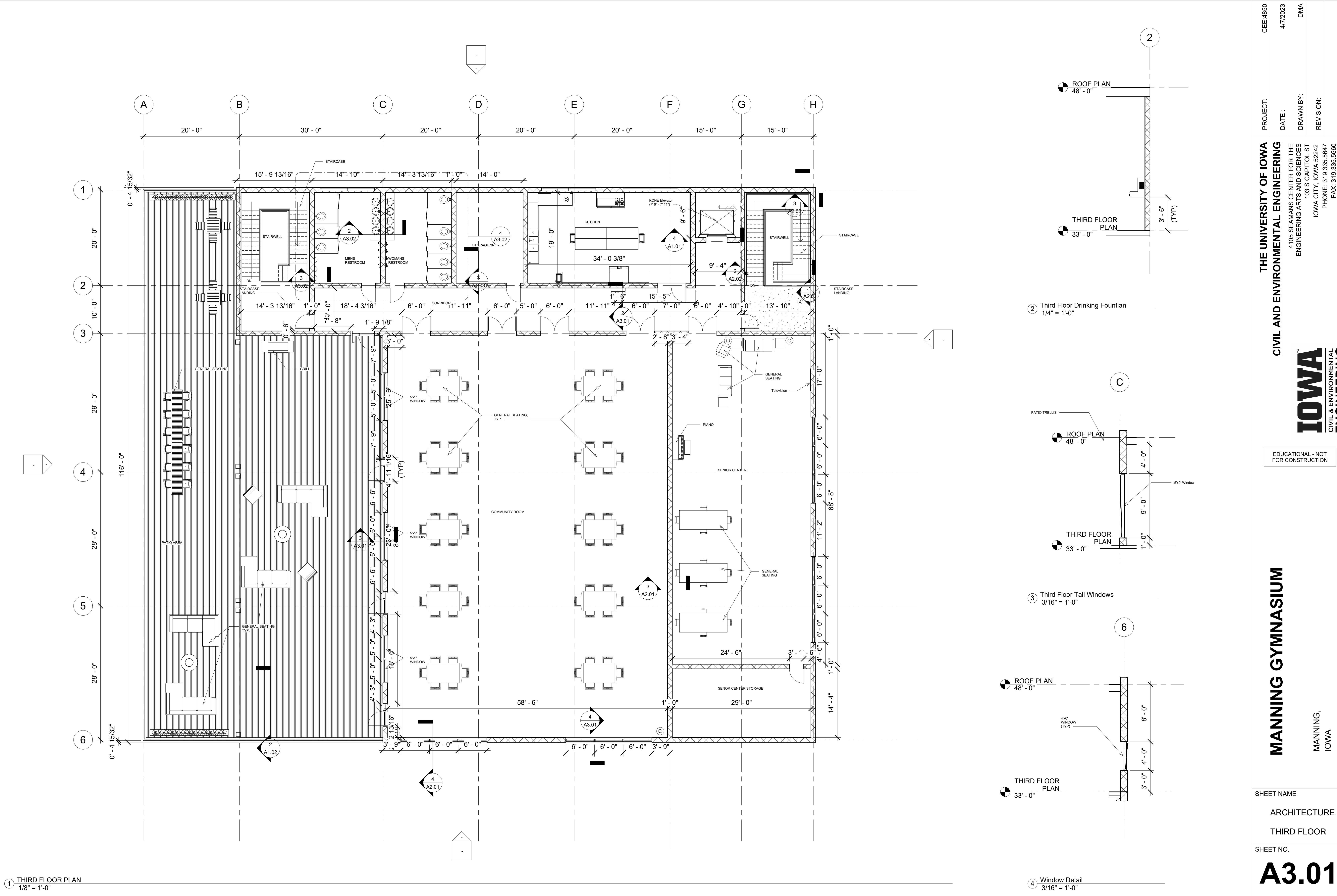
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IOWA

SHEET NAME
 ARCHITECTURE
 STAIRWELL

SHEET NO.
A2.02



1 THIRD FLOOR PLAN
1/8" = 1'-0"

4 Window Detail
3/16" = 1'-0"

THIRD FLOOR PLAN
33' - 0"

ROOF PLAN
48' - 0"

THIRD FLOOR PLAN
33' - 0"

3 Third Floor Tall Windows
3/16" = 1'-0"

THIRD FLOOR PLAN
33' - 0"

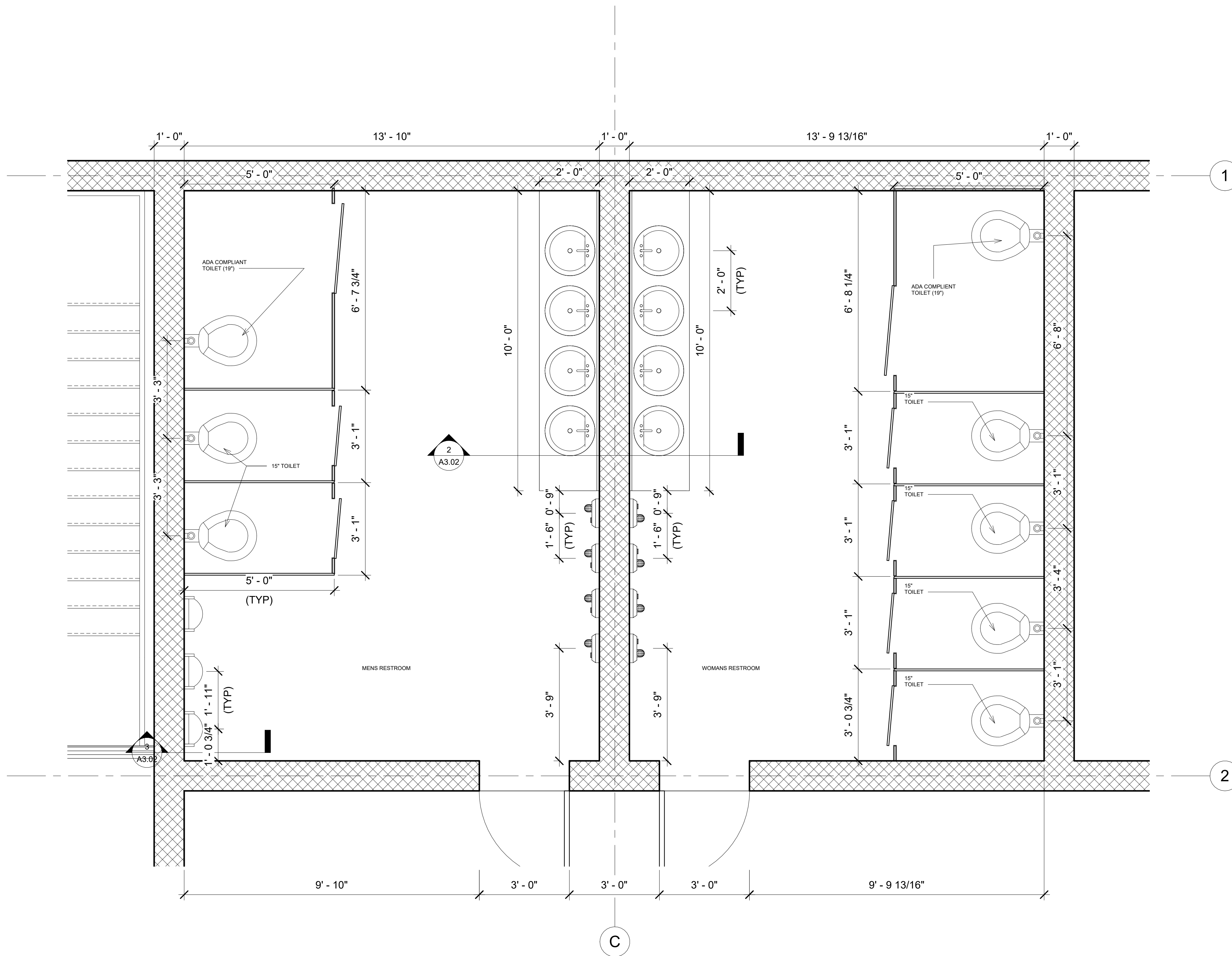
ROOF PLAN
48' - 0"

THIRD FLOOR PLAN
33' - 0"

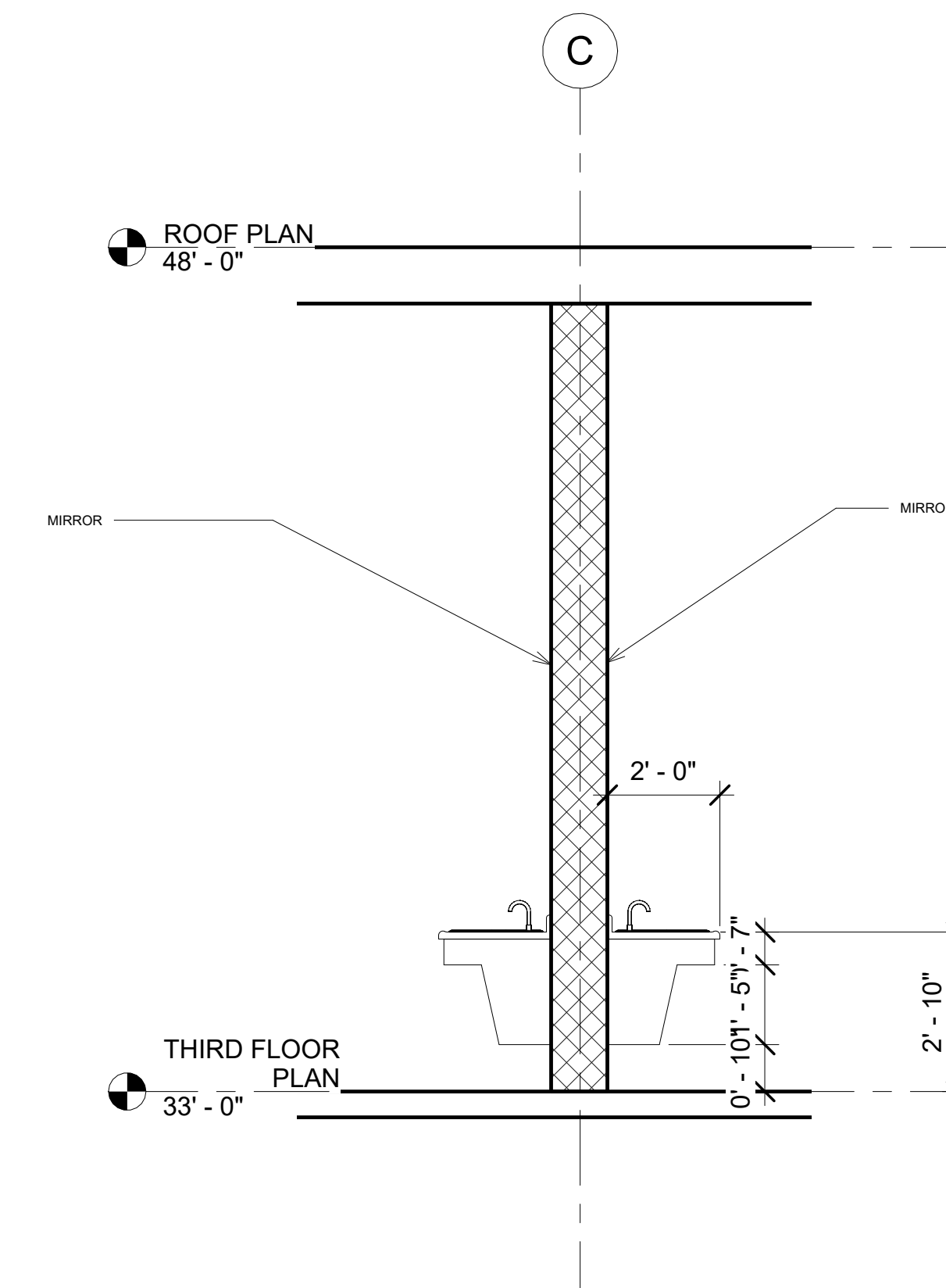
2 Third Floor Drinking Fountain
1/4" = 1'-0"

ROOF PLAN
48' - 0"

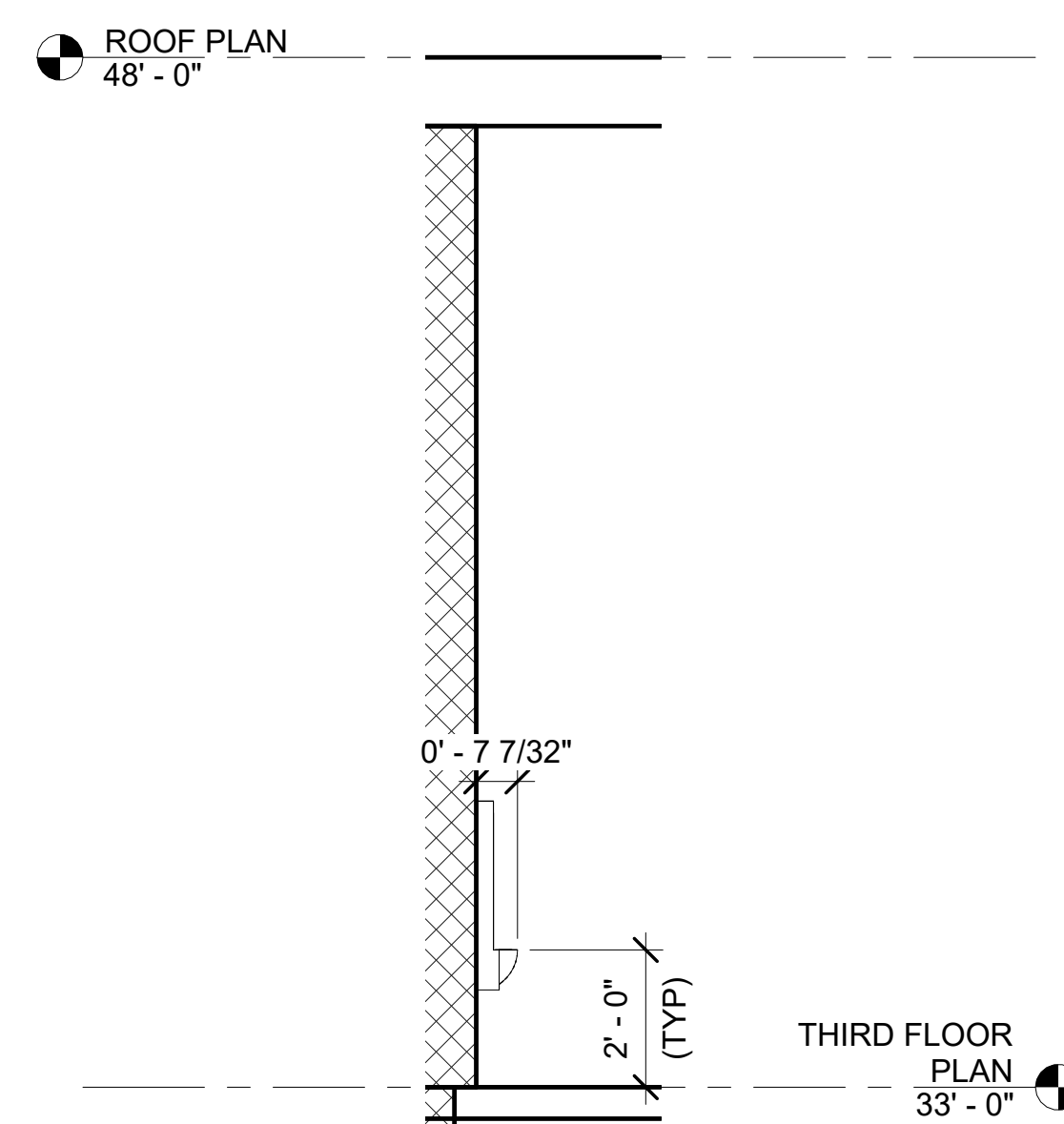
THIRD FLOOR PLAN
33' - 0"



4 THIRD FLOOR - RESTROOMS
1/2" = 1'-0"



2 Third Floor Sinks
3/8" = 1'-0"



3 Third Floor Urinal
3/8" = 1'-0"

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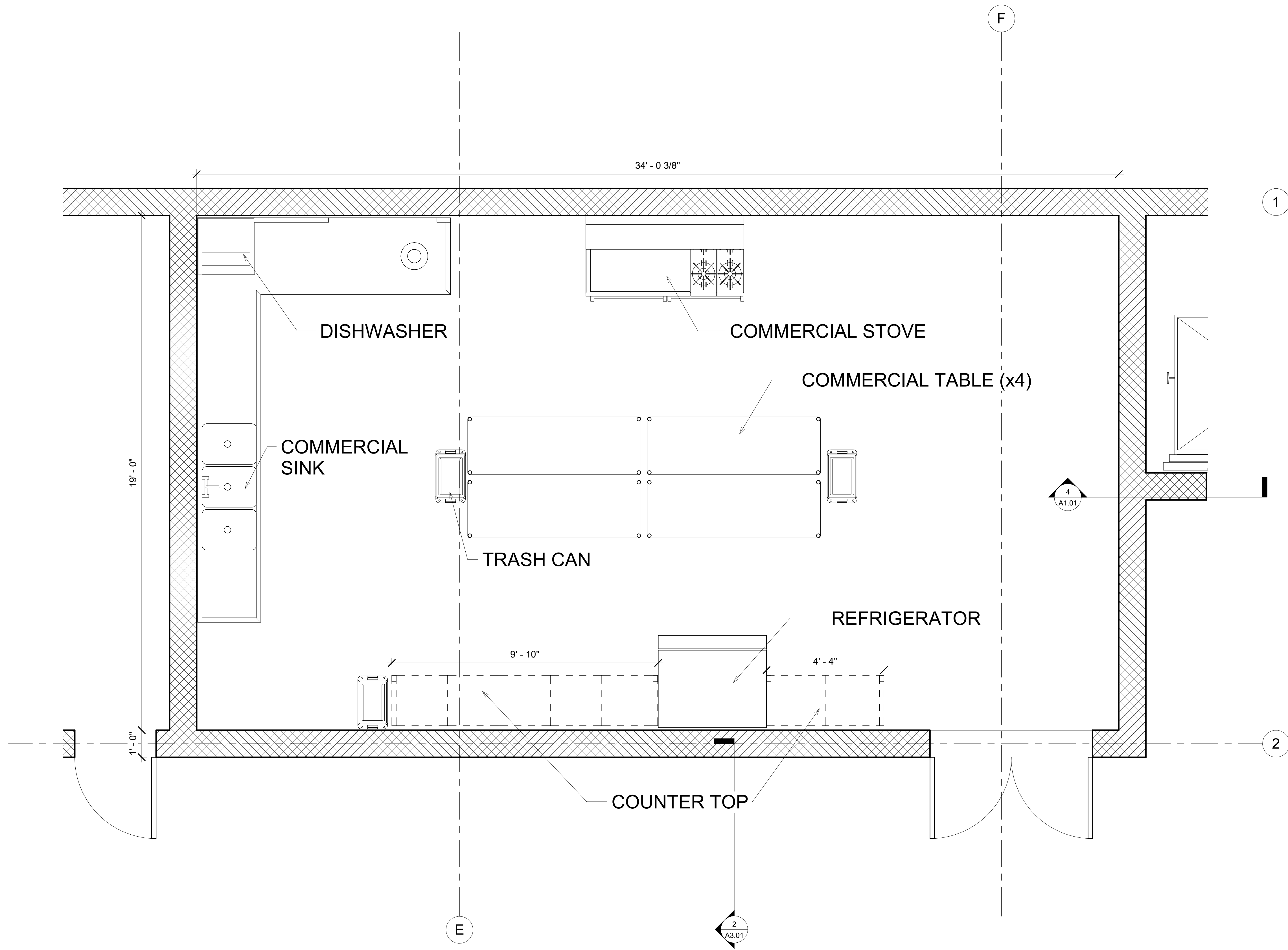
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IOWA

SHEET NAME
ARCHITECTURE
THIRD FLOOR
RESTROOM

SHEET NO.
A3.02



1 KITCHEN PLAN
1/2" = 1'-0"

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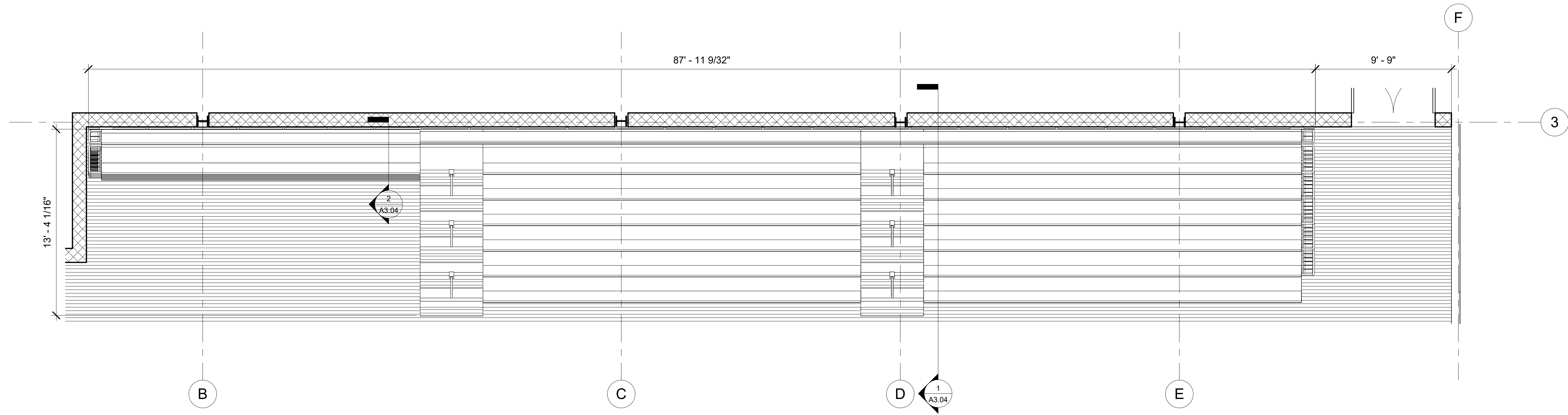
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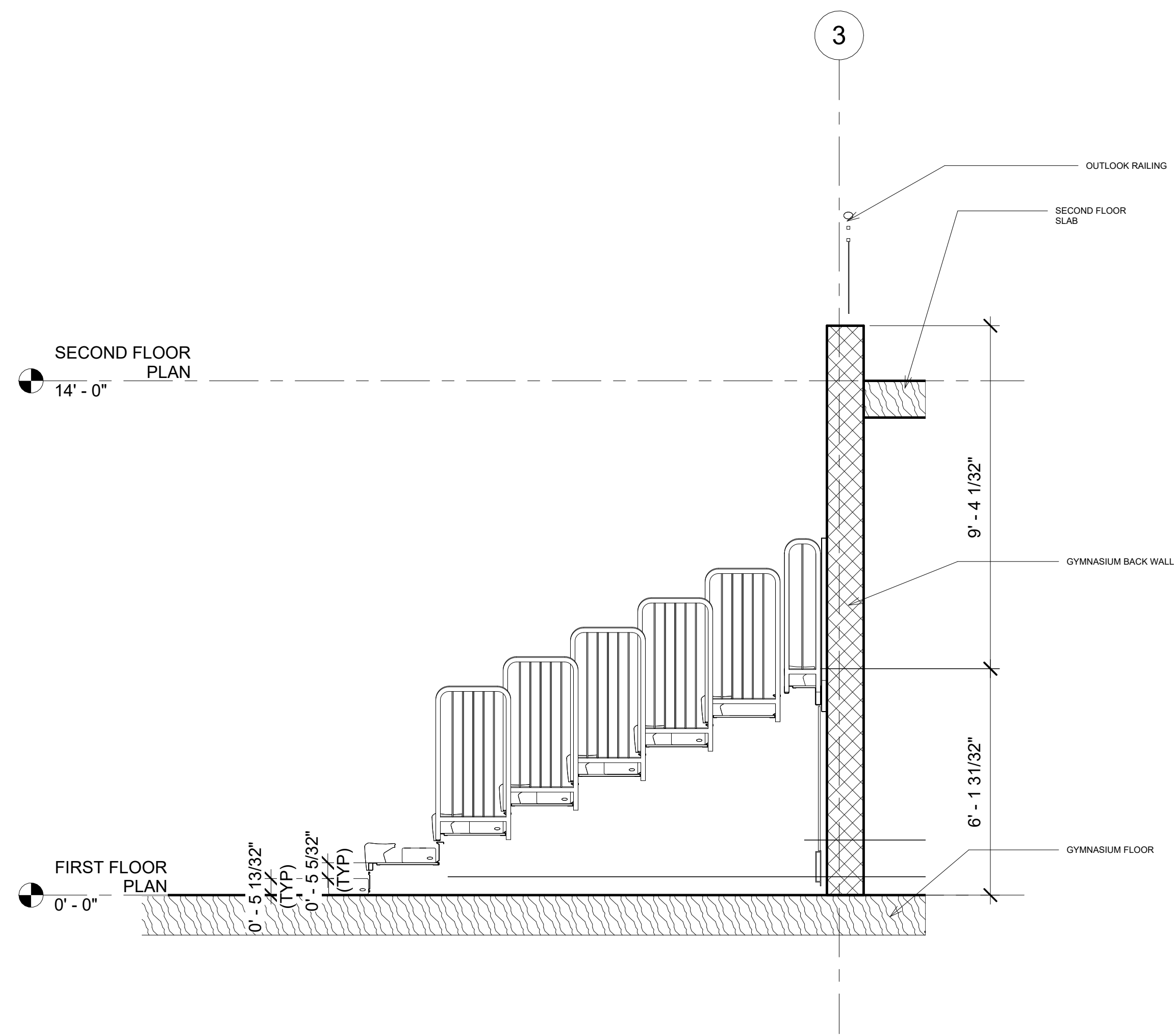
MANNING,
IOWA

SHEET NAME
 ARCHITECTURE
 THIRD FLOOR
 KITCHEN

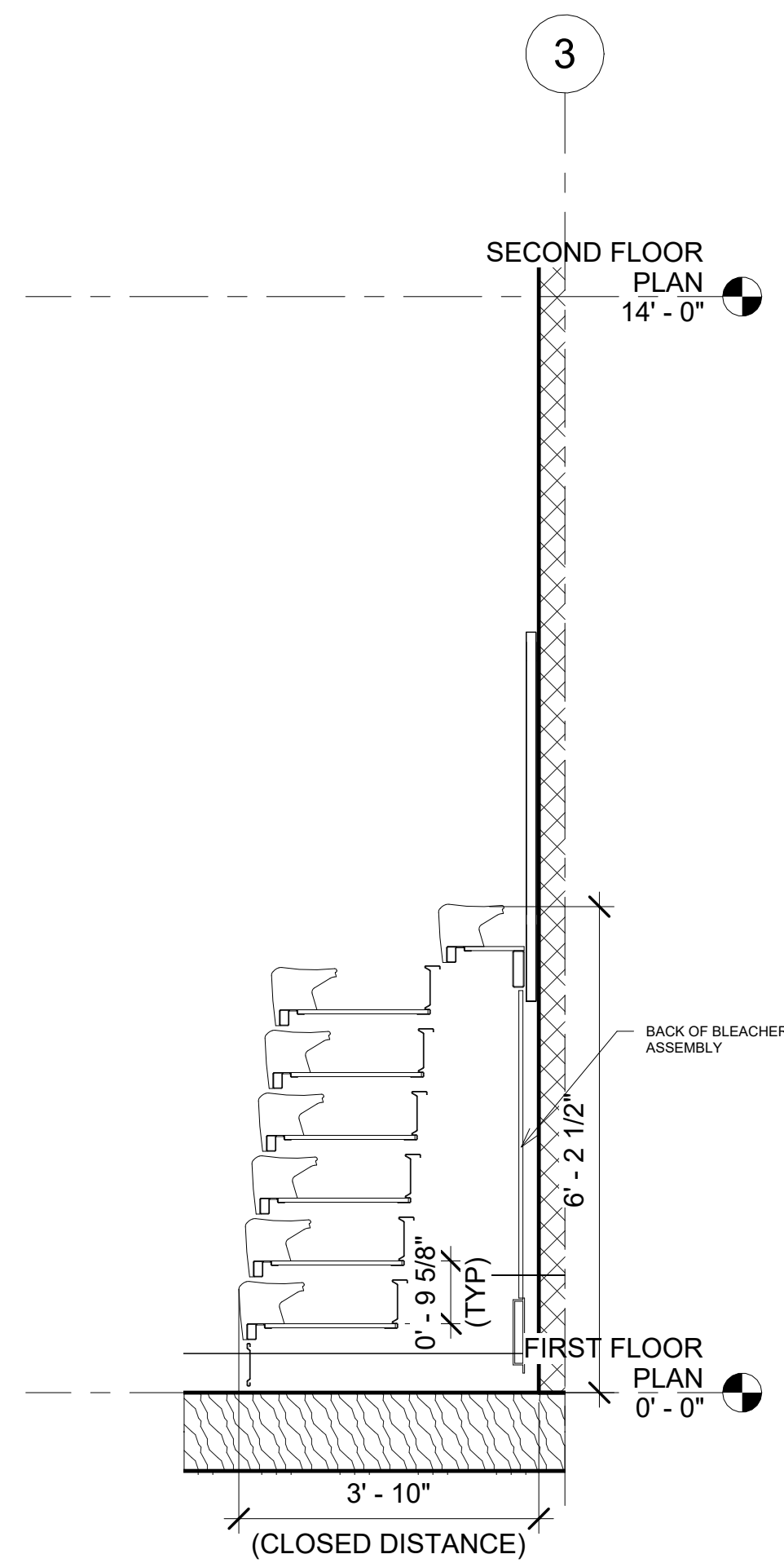
SHEET NO.
A3.04



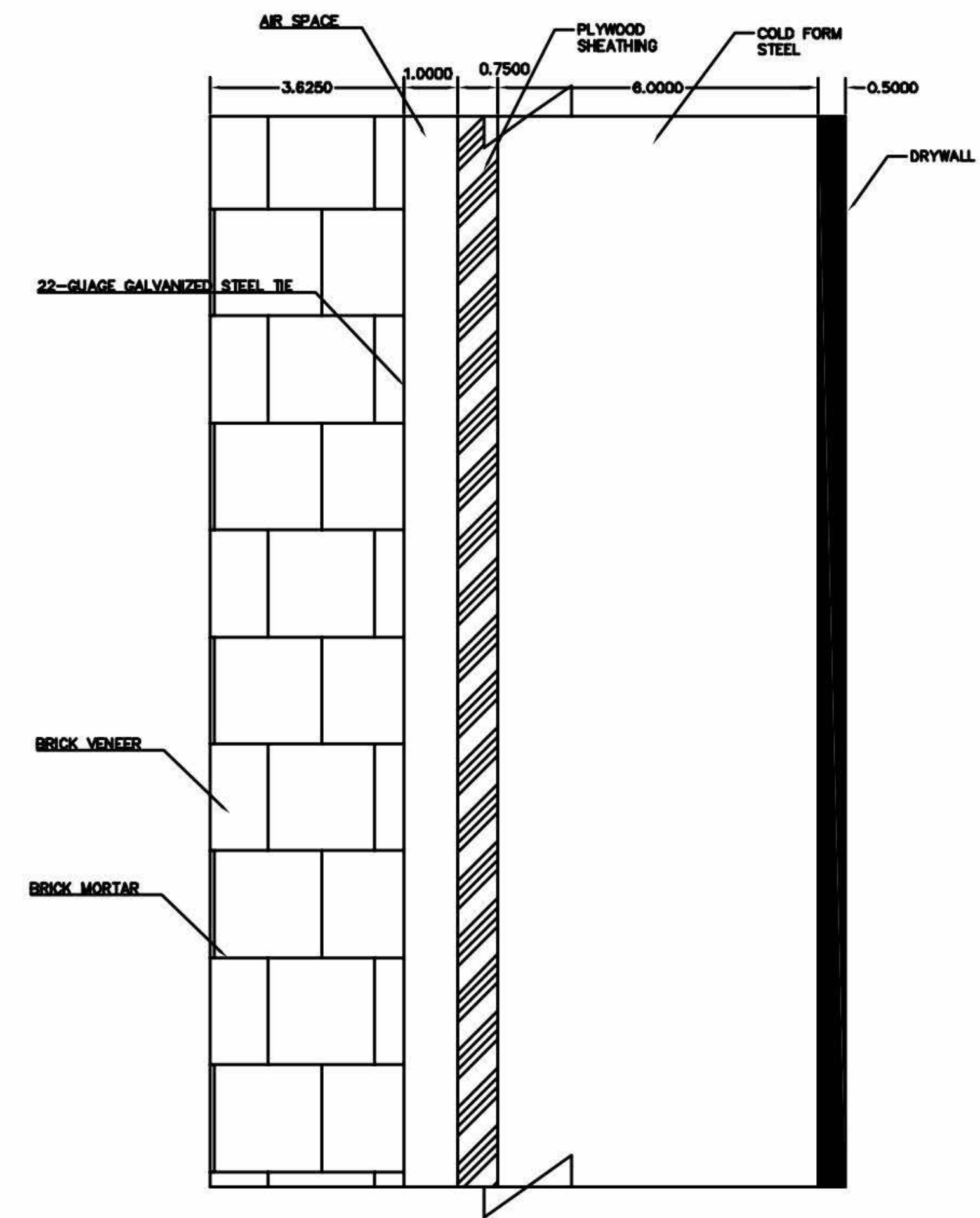
3 BLEACHER PLAN
1/4" = 1'-0"



1 GYMNASIUM BLEACHER (OPEN)
3/8" = 1'-0"



2 GYMNASIUM BLEACHER (CLOSED)
1/2" = 1'-0"



4 Exterior Wall Detail
1/2" = 1'-0"

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ARCHITECTURE
DETAIL SHEET

SHEET NO.

A3.04