



Lee's Summit R7 District Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

VOLUME 2 Cover Sheet

N-G000

September 28, 2020

Project Team:

owner:	architect:	structural engineer:	civil engineer:	mechanical/electrical engineer:
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18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

Index of Drawings

Volume 2 - LSNHS

Volume 1 - LSHS

00 Covers

H-G000

VOLUME 1 Cover Sheet

01.0 General Information

H-G001

Index of Drawings & General Project Notes

01.1 Code Information

H-G101

Code Plan - Level 1

02.0 - Civil

H-C100

Site and Dimension Plan

H-C190

Site Details

H-C195

Erosion Control Details

H-C200

Demolition and Erosion Control Plan

H-C300

Grading and Erosion Control Plan

H-C350

Retaining Wall Plan and Profile

H-C500

Utility Plan

H-C600

Storm Sewer Plan and Profile

H-C690

Storm Details

03.1 Architectural Site

H-AS002

Architectural Site Plan

H-AS201

Fencing and Hardscape Plans

04.0 Structural

H-S001

General Notes

H-S002

CMU Details

H-S111

Home Press Box Plans

H-S121

Home Gateway Plans

H-S131

Visitor Ticket Booth Plans

H-S200

Foundation Sections

H-S201

Foundation Sections

H-S300

Framing Sections

H-S301

Framing Sections

H-S302

Framing Sections

H-S303

Framing Sections

H-S304

Framing Sections

H-S400

Framing Elevations

05.0 Architectural Demolition

H-AD100

Overall (Site) Demolition Plans

05.1 Architectural

H-A001

Graphic Symbols, Abbreviations, and General Information

H-A002

Accessibility Standards & Mounting Heights

H-A020

Exterior Enclosure Types & Interior Partition Types

H-A080

Door & Window Types & Details

H-A101

Overall Floor Plan

H-A111

Home Press Box - Floor/Roof Plans

H-A112

Home Press Box - Reflected Ceiling Plans

H-A113

Home Press Box - Exterior Elevations

H-A114

Home Press Box - Building Sections

H-A115

Home Press Box - Wall Sections

H-A116

Home Press Box - Wall Sections

H-A117

Home Press Box - Interior Elevations

H-A118

Home Press Box - Vertical Circulation

H-A121

Home Gateway - Floor/Roof/Plans

H-A122

Home Gateway - Reflected Ceiling Plans

H-A123

Home Gateway - Exterior Elevations

H-A124

Home Gateway - Building Sections

H-A125

Home Gateway - Wall Sections & Details

H-A126

Home Gateway - Interior Elevations

H-A127

Home Gateway - Enlarged Plans

H-A131

Visitor Ticket Booth - Plans, Exterior Elevations, & Sections

H-A141

Visitor Press Box - Plans, Exterior Elevations, & Sections

H-A142

Visitor Press Box - Exterior Elevations

H-A143

Visitor Press Box - Building Sections

H-A300

Exterior Section Details - Foundation

H-A310

Exterior Section Details - Intermediate

H-A320

Exterior Section Details - Roof

H-A321

Exterior Section Details - Roof

H-A330

Exterior Plan Details

H-A600

Casework Standards

05.2 Architectural Finishes

H-AF001

Finish Legend, Schedule & Details

06.0 - Plumbing

H-P000

PLUMBING GENERAL NOTES AND LEGEND

H-P111

HOME PRESS BOX - PLUMBING PLANS

H-P121

HOME GATEWAY - PLUMBING PLAN

H-P500

PLUMBING DETAILS

H-P600

PLUMBING SCHEDULES

H-P700

PLUMBING RISERS

07.0 - Mechanical

H-M000

MECHANICAL GENERAL NOTES AND LEGEND

H-M111

HOME PRESS BOX - HVAC PLANS

H-M121

HOME GATEWAY - HVAC PLANS

H-M131

VISITOR TICKET BOOTH - HVAC PLANS

H-M500

MECHANICAL DETAILS

H-M600

MECHANICAL SCHEDULES & CONTROLS

08.0 - Electrical

H-E000

ELECTRICAL GENERAL NOTES AND LEGEND

H-E001

ELECTRICAL SITE PLAN - DEMO

H-E002

ELECTRICAL SITE PLAN - NEW

H-E111

HOME PRESS BOX - LIGHTING RCPS

H-E112

HOME PRESS BOX - POWER PLANS

H-E113

HOME PRESS BOX - EQUIPMENT CONNECTION PLANS

H-E121

HOME GATEWAY - LIGHTING RCP

H-E122

HOME GATEWAY - ELECTRICAL PLANS

H-E131

VISITOR TICKET BOOTH - ELECTRICAL PLANS

H-E500

ELECTRICAL DETAILS

H-E600

ELECTRICAL SCHEDULES

H-E601

ELECTRICAL SCHEDULES

H-E700

LIGHTING SCHEDULES

H-E800

ELECTRICAL ONE-LINE DIAGRAM

H-E801

ELECTRICAL ONE-LINE DIAGRAM

10.0 - Technology

H-TN000

TECHNOLOGY GENERAL NOTES AND LEGEND

H-TN111

HOME PRESS BOX - TECHNOLOGY PLANS

H-TN121

TECHNOLOGY HOME GATEWAY - PLAN

H-TN131

TECHNOLOGY VISITOR TICKET BOOTH - PLAN

H-TN500

TECHNOLOGY DETAILS

00 Covers

N-G000

VOLUME 2 Cover Sheet

01.0 General Information

N-G001

Index of Drawings & General Project Notes

01.1 Code Information

N-G100

Site Context

N-G101

Code Summary - Stadium, Press Box, & Ticket Booths

N-G102

Code Summary - Home Press Box & Ticket Booths

N-G103

Code Summary - Athletics Building & Concessions

02.0 - Civil

N-C100

Site and Dimension Plan

N-C200

Demolition and Erosion Control Plan

N-C300

Grading and Erosion Control Plan

N-C310

Site and Grading Plan Alternate

N-C500

Utility Plan

N-C900

Detail Sheet

N-C910

Detail Sheet

03.1 Architectural Site

N-AS001

Architectural Site Plan

N-AS101

Bleacher Plans

N-AS201

Fencing and Hardscape Plans

04.0 Structural

N-S001

General Notes

N-S002

CMU Details

N-S111

Press Box Plans

N-S121

North Ticket Booth Plans

N-S131

South Ticket Booth Plans

N-S141

Visitor Restroom Plans

N-S200

Foundation Sections

N-S300

Framing Sections

N-S301

Framing Sections

N-S302

Framing Sections

N-S400

Framing Elevations

05.0 Architectural Demolition

N-AD100

Overall (Site) Demolition Plans

N-AD111

Home Press Box Demolition Plans

N-AD112

Restroom and Concessions Demolition Plans

05.1 Architectural

N-A001

Graphic Symbols, Abbreviations, and General Information

N-A002

Accessibility Standards

N-A020

Exterior Enclosure Types & Interior Partition Types

N-A080

Door & Window Types, Schedule, & Details

N-A101

Overall Floor Plan

N-A111

Press Box - Floor/Roof Plans

N-A112

Press Box - Reflected Ceiling Plans

N-A113

Press Box - Exterior Elevations

N-A114

Press Box - Building Sections

N-A115

Press Box - Wall Sections

N-A116

Press Box - Wall Sections

N-A117

Press Box - Interior Elevations

N-A121

Ticket Booths - Plans, Elevations, & Building Sections

N-A125

Ticket Booths - Wall Sections

N-A127

Ticket Booths - Interior Elevations

N-A141

Restrooms & Concessions - Plans & Elevations

N-A145

Restrooms & Concessions - Wall Sections

N-A300

Section Details - Foundation

N-A310

Section Details - Intermediate

N-A320

Section Details - Roof

N-A321

Section Details - Roof

N-A330

Exterior Plan Details

N-A600

Casework Standards

05.2 Architectural Finishes

N-AF001

Finish Legend & Details

06.0 - Plumbing

N-P000

PLUMBING LEGEND AND NOTES

N-P111

PRESS BOX - PLUMBING PLANS

N-P141

VISITOR RESTROOMS - PLUMBING PLAN

N-P500

PLUMBING DETAILS

N-P600

PLUMBING SCHEDULES

N-P700

PLUMBING RISERS

07.0 - Mechanical

N-M000

MECHANICAL LEGEND AND NOTES

N-M111

PRESS BOX - HVAC PLANS

N-M121

TICKET BOOTH - HVAC PLANS

N-M141

VISITOR RESTROOMS - HVAC PLANS

N-M500

MECHANICAL DETAILS

N-M600

MECHANICAL SCHEDULES & CONTROLS

08.0 - Electrical

N-E000

ELECTRICAL LEGEND AND NOTES

N-E001

ELECTRICAL SITE PLAN

N-E111

PRESS BOX - LIGHTING RCPS

N-E112

PRESS BOX - POWER PLANS

N-E121

TICKET BOOTH - ELECTRICAL PLANS

N-E141

VISITOR RESTROOMS AND CONCESSIONS - ELECTRICAL PLANS

N-E500

ELECTRICAL DETAILS

N-E600

ELECTRICAL SCHEDULES

N-E601

ELECTRICAL SCHEDULES

N-E700

LIGHTING SCHEDULES

N-E800

ELECTRICAL ONE-LINE DIAGRAM

10.0 - Technology

N-TN000

TECHNOLOGY LEGEND AND NOTES

N-TN111

PRESS BOX - TECHNOLOGY PLANS

N-TN121

TICKET BOOTH - TECHNOLOGY PLANS

N-TN141

VISITOR RESTROOMS - TECHNOLOGY PLAN

N-TN500

TECHNOLOGY DETAILS

00 Covers

W-G000

VOLUME 3 Cover Sheet

01.0 General Information

W-G001

Index of Drawings & General Project Notes

01.1 Code Information

W-G100

Site Context

W-G101

Code Summary - Stadium & Home Press Box

W-G102

Code Summary - Press Box

W-G103

Code Summary - Visitor Concessions & South Ticket Booth

W-G104

Code Summary - North Ticket Booth

W-G200

Fire Rated Assemblies

W-G201

Fire Rated Assemblies

02.0 - Civil

W-C100

Site & Dimension Plan

W-C200

Demolition and Erosion Control Plan

W-C300

Grading and Erosion Control Plan

W-C500

Utility Plan

W-C900

Site Details

W-C910

Utility Details

W-C920

Utility Details

03.1 Architectural Site

W-AS001

Architectural Site Plan

W-AS101

Bleacher Plans

W-AS201

Fencing & Hardscape Plan

04.0 Structural

W-S001

General Notes & Site Foundation Plans

W-S002

CMU Details

W-S111

Home Press Box Plans

W-S121

Visitor Restrooms/Concession Plans

W-S131

North Ticket Booth Plans

W-S141

South Ticket Booth Plans

W-S300

Framing Sections

W-S301

Framing Sections

W-S400

Framing Elevations

05.0 Architectural Demolition

W-AD100

Demolition Plan - Overall Site

W-AD101

Demolition Plan - Press Box

05.1 Architectural

W-A001

Graphic Symbols, Abbreviations, and General Information

W-A002

Accessibility Standards

W-A020

Exterior Enclosures & Railing

W-A080

Door & Window Schedule, Types, & Details

W-A090

Interior Partition Types

W-A101

Overall Floor Plan

W-A111

Press Box - Floor/Roof Plans

W-A112

Press Box - Reflected Ceiling Plans

W-A113

Press Box - Elevations

W-A114

Press Box - Building Sections

W-A115

Press Box - Wall Sections

W-A116

Press Box - Wall Sections

W-A117

Press Box - Vertical Circulation Drawings

W-A121

Visitor Concessions - Floor/Roof/Reflected Ceiling Plans

W-A123

Visitor Concessions - Elevations & Building Sections

W-A125

Visitor Concessions - Wall Sections

W-A128

Visitor Restrooms - Plan & Elevations

W-A131

North Ticket Booth - Plans, Exterior Elevations, & Sections

W-A135

North Ticket Booth - Wall Sections

W-A141

(BID ALT #W-1) South Ticket Booth - Plans, Elevations, & Sections

W-A145

(BID ALT #W-1) South Ticket Booth - Wall Sections

W-A300

Exterior Section Details

W-A320

Exterior Section Details - Roof

W-A321

Exterior Section Details - Roof

W-A322

Exterior Section Details - Roof

W-A330

Exterior Plan Details

W-A600

Casework Standards

05.2 Architectural Finishes

W-AF001

Finish Legend & Details

06.0 - Plumbing

W-P000

PLUMBING LEGEND AND NOTES

W-P111

HOME PRESS BOX - PLUMBING PLANS

W-P121

VISITOR RESTROOMS & CONCESSIONS - PLUMBING PLAN

W-P500

PLUMBING DETAILS

W-P600

PLUMBING SCHEDULES

W-P700

PLUMBING RISERS

07.0 - Mechanical

W-M000

MECHANICAL LEGEND AND NOTES

W-M111

HOME PRESS BOX - HVAC PLAN

W-M121

VISITOR RESTROOMS & CONCESSIONS - HVAC PLANS

W-M131

TICKET BOOTH - HVAC PLANS

W-M500

MECHANICAL DETAILS

W-M600

MECHANICAL SCHEDULES & CONTROLS

08.0 - Electrical

W-E000

ELECTRICAL LEGEND AND NOTES

W-E001

ELECTRICAL SITE PLAN

W-E111

HOME PRESS BOX - LIGHTING RCPS

W-E112

HOME PRESS BOX - POWER PLANS

W-E121

VISITOR RESTROOMS & CONCESSIONS - ELECTRICAL PLANS

W-E131

TICKET BOOTH - ELECTRICAL PLANS

W-E500

ELECTRICAL DETAILS

W-E600

ELECTRICAL SCHEDULES

W-E700

LIGHTING SCHEDULES

W-E800

ELECTRICAL ONE-LINE DIAGRAM

10.0 - Technology

W-TN000

TECHNOLOGY LEGEND AND NOTES

W-TN111

HOME PRESS BOX - TECHNOLOGY PLANS

W-TN121

VISITOR RESTROOMS & CONCESSIONS - TECHNOLOGY PLAN

W-TN131

TICKET BOOTH - TECHNOLOGY PLANS

W-TN500

TECHNOLOGY DETAILS

General Notes:

1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERRABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INDICATED RESULTS.

2. ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND ARTICLES, AND ARRANGEMENT OF DRAWINGS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.

3. DRAWINGS, SPECIFICATIONS, GENERAL AND SUPPLEMENTARY CONDITIONS ARE ESSENTIAL PARTS OF THE CONTRACT. IN THE EVENT OF ANY DISCREPANCY BETWEEN A DRAWING AND FIGURES WRITTEN THEREON, THE FIGURES, UNLESS OBVIOUSLY INCORRECT, ARE TO GOVERN OVER SCALED DIMENSIONS. IN THE CASE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS ARE TO GOVERN. IF THERE IS A DISCREPANCY BETWEEN LARGE AND SMALL SCALE DETAILS, THE LARGER SCALE DETAILS ARE TO GOVERN. SUPPLEMENTARY CONDITIONS SHALL GOVERN OVER SPECIFICATIONS, DRAWINGS AND GENERAL CONDITIONS. THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS BETWEEN CONTRACT DOCUMENTS AS SOON AS THEY ARE DISCOVERED.

4. NOTWITHSTANDING THE ABOVE, IN THE CASE OF INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM OR BY ARCHITECT'S SUPPLEMENTAL INSTRUCTION, THE BETTER QUALITY OR GREATER QUANTITY SHALL BE PROVIDED.

5. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS. IF DIMENSIONS APPEAR TO BE INSUFFICIENT OR INCORRECT, THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT.

6. WHENEVER CONTRACT DOCUMENTS REASONABLY IMPLY MATERIALS OR INSTALLATION AS NECESSARY TO PRODUCE THE INTENDED RESULTS, BUT DO NOT FULLY DETAIL OR SPECIFY SUCH MATERIALS, THE CONTRACTOR SHALL PROVIDE THE MATERIALS AND LABOR REQUIRED FOR INSTALLATION NONETHELESS.

7. PROVIDE ALL WORK INDICATED UNLESS SPECIFICALLY INDICATED AS "NOT IN CONTRACT" (NIC), "FURNISHED BY OTHERS" (FBO) OR "EXISTING".

8. CONTRACT DOCUMENTS ARE INTENDED TO CONVEY DESIGN INTENT ONLY. PROVIDE PRODUCTS COMPLETE WITH ACCESSORIES, TRIM, FINISH, FASTENERS, AND OTHER ITEMS NEEDED FOR A COMPLETE INSTALLATION AND INDICATED USE AND EFFECT.

9. THESE NOTES ARE NOT INTENDED TO LIMIT THE RESPONSIBILITIES OF THE CONTRACTOR AS DEFINED ELSEWHERE IN THE CONTRACT DOCUMENTS

18

17

16

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Lee's Summit R7 District Athletics Facilities

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UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR REPRESENTATION OF THE PROJECT.

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ARCHITECT

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Date: 09/28/2020

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REVISIONS

Number

DESCRIPTION

DATE

PROJECT NO:

0119-0101

DATE:

September 28, 2020

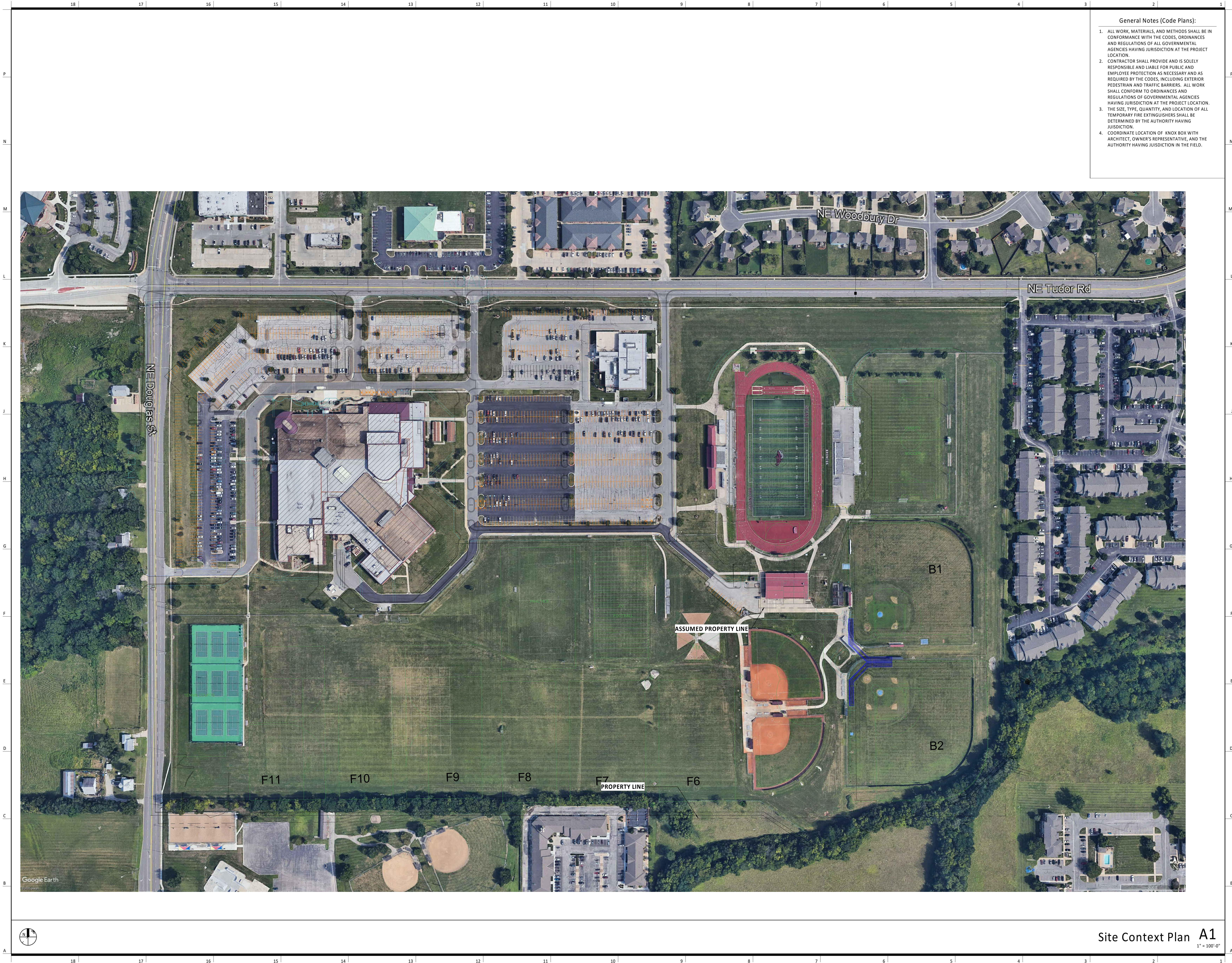
Index of Drawings & General Project Notes

N-G001

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- General Notes (Code Plans):
1. ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
 2. CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR PEDESTRIAN AND TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
 3. THE SIZE, TYPE, QUANTITY, AND LOCATION OF ALL TEMPORARY FIRE EXTINGUISHERS SHALL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.
 4. COORDINATE LOCATION OF KNOX BOX WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND THE AUTHORITY HAVING JURISDICTION IN THE FIELD.

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**Lee's Summit R7 District
Athletics Facilities**

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901 NE Douglas Street
Lee's Summit, MO 64086

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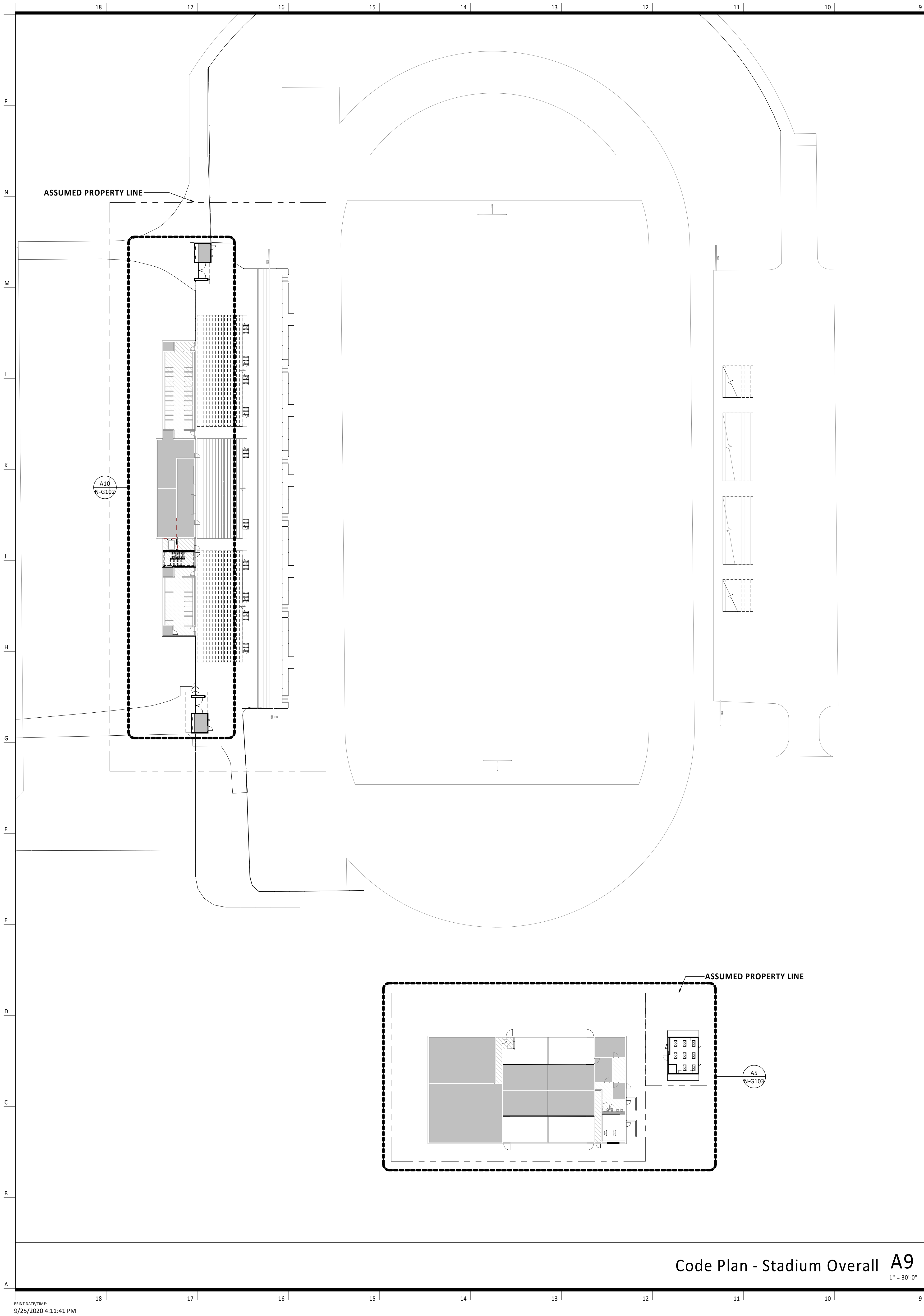
REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Site Context
N-G100
BID SET

Site Context Plan **A1**
1" = 100'-0"

PRINT DATE/TIME:
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OCCUPANT LOADS:					
(SECTION 1004.4)					
BLEACHER SEATING 1 PER 18 INCHES					
BLEACHERS 5,250 LF = 63,000 INCHES 63,000 INCHES / 18 INCHES PER PERSON = 3,500 OCCUPANTS TOTAL: 3,500 OCCUPANTS					
PLUMBING FIXTURE COUNT:					
(BASED ON APPROVAL FROM CITY OF LEE'S SUMMIT)					
	MEN		WOMEN		FAMILY/ UNISEX
	WC:	LAV:	WC:	LAV:	WC:
ADDITIONAL NEW FIXTURES REQUIRED	0	0	5	0	0
ADDITIONAL NEW FIXTURES PROVIDED:	0	0	5	1	0

Exiting Requirements

EXIT WIDTHS DOORS, RAMPS, ETC.:
60 PEOPLE PER FOOT
0.2" PER OCCUPANT

STAIRS:
40 PEOPLE PER FOOT
0.3" PER OCCUPANT

TRAVEL DISTANCE:
ALLOWED: 200' (NON-SPRINKLED)
ACTUAL: SEE CODE PLAN

COMMON PATH OF TRAVEL:
75' FOR A OCCUPANCY

NUMBER OF EXITS REQUIRED:
ROOMS WITH OL 49 OR LESS: 1 EXIT
ROOMS WITH OL 50-999: 2 EXITS
ROOMS WITH OL 1,001-1,000: 3 EXITS
ROOMS WITH OL 1,001 OR MORE: 4 EXITS

PANIC HARDWARE:
NOT REQUIRED IN BUILDINGS
(DUE TO OCCUPANT LOADS)

REQUIRED EXIT WIDTH: **3,600 x 0.2" = 700"**
ACTUAL EXIT WIDTH: **136"**
TOTAL EGRESS CAPACITY: **680**
ACTUAL OCCUPANCY: **3,500**

Description

RENOVATION TO EXISTING OUTDOOR STADIUM FACILITIES WHICH WILL INCLUDE EXPANSION OF EXISTING PRESS BOX, CONSTRUCTION OF NEW RESTROOMS, CONCESSIONS, AND TICKET BOOTHS; AND CONSTRUCTION OF NEW BLEACHER SEATING.

Applicable Codes

2018 International Building Code
2018 International Existing Building Code
2018 International Fire Code
2017 National Electric Code
2018 International Mechanical Code
2018 International Plumbing Code
2018 International Energy Conservation Code
2009 Accessible and Usable Buildings and Facilities

Building complies with all applicable codes.

Occupancy Classifications

THE PROJECT SITE CONTAINS (3) ASSUMED PROPERTIES: EACH WITH A SINGLE USE OCCUPANCY IN EXISTING AND RENOVATED AREAS:

A-5: OUTDOOR STADIUM & PRESS BOX
B: CONCESSIONS
B: ATHLETICS BUILDING

Type of Construction

TYPE II-B

Allowable Height			
NON-SPRINKLED		SPRINKLED	
HEIGHT	STORIES	HEIGHT	STORIES
A-5: 55'	UL 3	75'	UL 4
B: 55'	UL 3	75'	UL 4

Building Height

PRESS BOX + ADDITION: 3 STORIES - APX 42'
NORTH TICKET BOOTH: 1 STORY - APX 14'
SOUTH TICKET BOOTH: 1 STORY - APX 14'
CONCESSIONS: 1 STORY - APX 15'
ATHLETICS BUILDING: 1 STORY - APX 20'

Allowable Area		
NON-SPRINKLED (NS)	SPRINKLED (S)	SPRINKLED (SM)
A-5: UL 23,000 SF	UL 92,000 SF	UL 69,000 SF
B: 23,000 SF	92,000 SF	69,000 SF

Building Area

PRESS BOX:
EXISTING BUILDING AREA: 4,379 SF
NEW CONSTRUCTION BUILDING AREA: 1,419 SF
TOTAL BUILDING AREA: 5,798 SF

NORTH TICKET BOOTH BUILDING AREA: 121 SF
SOUTH TICKET BOOTH BUILDING AREA: 121 SF
CONCESSIONS BUILDING AREA: 436 SF
ATHLETICS BUILDING AREA: 8,398 SF

Passive Fire Requirements

EXTERIOR BEARING WALLS: **0 HR**

INTERIOR BEARING WALLS: **0 HR**

EXTERIOR NON-BEARING WALLS: **0 HR**

OPENING PROTECTION AT EXT. WALL: **0 HR**

STRUCTURAL FRAME: **0 HR**

ROOF SUPPORTS: **0 HR**

NON-BEARING WALLS & INTERIOR PARTITIONS: **0 HR**

CORRIDORS: **0 HR**

FLOOR CONSTRUCTION: **0 HR**

Active Fire Resistance Requirements

AUTOMATIC SPRINKLER SYSTEM: **NOT REQUIRED**

STANDPIPES: **NOT REQUIRED**

FIRE ALARM SYSTEM: **NOT REQ'D. DUE TO OCCUPANT LOAD**

SMOKE DETECTION: **NOT REQUIRED**

EXIT SIGNS: **REQUIRED**

NOT REQUIRED IN ROOMS THAT REQUIRE ONLY ONE EXIT.

EMERGENCY LIGHTING: **MINIMUM OF 1 FOOTCANDLE AT THE WALKING SURFACE**

PORTABLE FIRE EXTINGUISHERS: **REQUIRED**

Means of Egress

COMMON PATH OF EGRESS TRAVEL:

COMMON PATH OF EGRESS TRAVEL SHOULD NOT EXCEED 75 FEET FOR USE GROUP A IN NON-SPRINKLED BUILDINGS (IBC TABLE 1006.2.1). THE MAXIMUM OCCUPANT LOAD OF SPACE IS 49. TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1 (IBC SECTION 1006.2.1)

DEAD END CORRIDORS:

DEAD END CORRIDORS SHOULD NOT EXCEED 20 FEET IN LENGTH FOR USE GROUP A (IBC SECTION 1020.4). DEAD END CORRIDORS IN AN EXISTING CONDITION SHOULD NOT EXCEED 35' (IBC SECTION 805.6)

TRAVEL DISTANCE:

THE MAXIMUM TRAVEL DISTANCE TO AN EXIT SHOULD NOT EXCEED 200 FEET FOR USE GROUP A OCCUPANCIES (IBC TABLE 1017.2)

DOOR SWING:

DOOR SWING IS REQUIRED TO SWING IN THE DIRECTION OF TRAVEL WHEN THE OCCUPANT LOAD IS MORE THAN 50 (IBC SECTION 1010.1.2.1)

General Notes (Code Plans):

- ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
- CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR PEDESTRIAN AND TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
- THE SIZE, TYPE, QUANTITY, AND LOCATION OF ALL TEMPORARY FIRE EXTINGUISHERS SHALL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.
- COORDINATE LOCATION OF KNOX BOX WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND THE AUTHORITY HAVING JURISDICTION IN THE FIELD.

Code Plan Legend:

Egress Path of Travel

Path #

Common Path of Travel, RE Schedule

Travel Distance to Exit, RE Schedule

Egress Point

Clear Width Provided

Maximum # of Occupants (by width)

Required # of Occupants

Stair Egress

Clear Width Provided

Maximum # of Occupants (by width)

Required # of Occupants

Occupancy Tag

Occupancy Group

Room name

Area

Occupant Load

Fire Extinguisher Radius

75' Typ

1-Hour: Fire Rated Assembly

2-Hour: Fire Rated Assembly

3-Hour: Fire Rated Assembly

4-Hour: Fire Rated Assembly

Smoke Barrier

Smoke Partition

Path of Egress Schedule	
Mark	Path of Egress
Path 2.01	37' - 4 5/8"
Path 2.02	40' - 9"
Path 3.01	72' - 5 1/16"

AUTOMATIC SPRINKLER SYSTEM:
A-5: Required for "all enclosed Group A-5 accessory use areas in excess of 1,000 SF."

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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
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Architectural Corporation
Missouri License No. 2018022991
Jay Darren Browning
Date: 09/28/2020
Architect License No. A-2009027279

REVISIONS

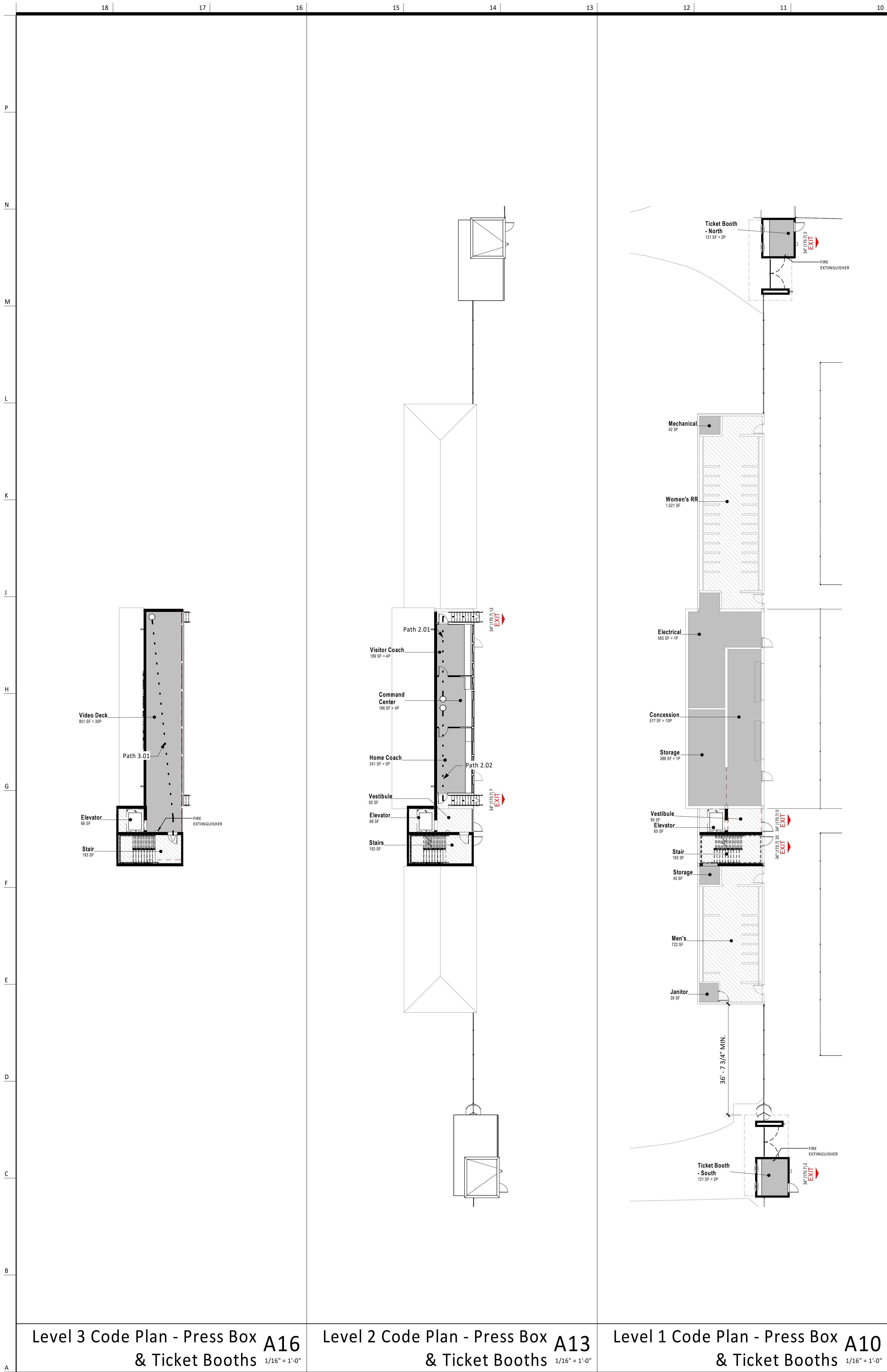
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Code Summary -
Stadium, Press Box, &
Ticket Booths

N-G101

BID SET



OCCUPANT LOADS:			(BASED ON 2018 IBC TABLE 1004.5)
STORAGE AREAS, MECHANICAL/ELECTRICAL EQUIPMENT ROOM	300 GROSS		
PRESS BOX	50 GROSS		
VIDEO DECK	50 GROSS		
CONCESSIONS	60 GROSS		
PRESS BOX - LEVEL 1	445 SF	2 OCCUPANTS	
STORAGE/MECH. (2):	578 SF	10 OCCUPANTS	
CONCESSIONS (2):			
LEVEL 1 TOTAL: 12 OCCUPANTS			
PRESS BOX - LEVEL 2	616 SF	13 OCCUPANTS	
PRESS BOX (3):			
LEVEL 2 TOTAL: 13 OCCUPANTS			
PRESS BOX - LEVEL 3	862 SF	18 OCCUPANTS	
VIDEO DECK:			
LEVEL 3 TOTAL: 18 OCCUPANTS			
TOTAL: 43 OCCUPANTS			
NORTH TICKET BOOTH	95 SF	2 OCCUPANTS	
TICKETING:			
TOTAL: 2 OCCUPANTS			
SOUTH TICKET BOOTH	95 SF	2 OCCUPANTS	
TICKETING:			
TOTAL: 2 OCCUPANTS			

Exiting Requirements

EXIT WIDTHS DOORS, RAMPS, ETC (NOT INCLUDING BLEACHERS):

60 PEOPLE PER FOOT
0.2" PER OCCUPANT (SECTION 1005.3.2)

STAIRS (NOT INCLUDING BLEACHERS):

40 PEOPLE PER FOOT
0.3" PER OCCUPANT (SECTION 1005.3.1)

TRAVEL DISTANCE:

ALLOWED: 200' (NON-SPRINKLED)
ACTUAL: SEE CODE PLAN (TABLE 1017.2)

COMMON PATH OF TRAVEL:

75' FOR A OCCUPANCY (SECTION 1006.2.1)

NUMBER OF EXITS REQUIRED:

ROOMS WITH OL 49 OR LESS: 1 EXIT
ROOMS WITH OL 50-500: 2 EXITS
ROOMS WITH OL 501-1,000: 3 EXITS
ROOMS WITH OL 1,001 OR MORE: 4 EXITS
(TABLE 1006.2.1, SECTION 1006.2.1.1)

PANIC HARDWARE:

NOT REQUIRED IN BUILDINGS
(DUE TO OCCUPANT LOADS) (SECTION 1010.1.10)

PRESS BOX

REQUIRED EXIT WIDTH: $43 \times 0.2" = 8.6"$
ACTUAL EXIT WIDTH: 102"
TOTAL EGRESS CAPACITY: 512
ACTUAL OCCUPANCY: 43

NORTH TICKET BOOTH

REQUIRED EXIT WIDTH: $2 \times 0.2" = 0.4"$
ACTUAL EXIT WIDTH: 34"
TOTAL EGRESS CAPACITY: 170
ACTUAL OCCUPANCY: 2

SOUTH TICKET BOOTH

REQUIRED EXIT WIDTH: $2 \times 0.2" = 0.4"$
ACTUAL EXIT WIDTH: 34"
TOTAL EGRESS CAPACITY: 170
ACTUAL OCCUPANCY: 2

Description												
RENOVATION TO EXISTING OUTDOOR STADIUM FACILITIES WHICH WILL INCLUDE EXPANSION OF EXISTING PRESS BOX, CONSTRUCTION OF NEW RESTROOMS, CONCESSIONS, AND TICKET BOOTHS, AND CONSTRUCTION OF NEW BLEACHER SEATING.												
Applicable Codes												
2018 International Building Code 2018 International Existing Building Code 2018 International Fire Code 2017 National Electric Code 2018 International Mechanical Code 2018 International Plumbing Code 2018 International Energy Conservation Code 2009 Accessible and Usable Buildings and Facilities												
Building complies with all applicable codes.												
Occupancy Classifications												
THE PROJECT SITE CONTAINS (3) ASSUMED PROPERTIES: EACH WITH A SINGLE USE OCCUPANCY IN EXISTING AND RENOVATED AREAS: A-5: OUTDOOR STADIUM & PRESS BOX (SECTION 303) B: CONCESSIONS (SECTION 304) B: ATHLETICS BUILDING (SECTION 304)												
Type of Construction												
TYPE II-B												
Allowable Height												
<table><tr><th colspan="2">NON-SPRINKLED</th><th colspan="2">SPRINKLED</th></tr><tr><th>HEIGHT</th><th>STORES</th><th>HEIGHT</th><th>STORES</th></tr><tr><td>A-5: 55'</td><td>UL</td><td>75'</td><td>UL 4</td></tr></table>	NON-SPRINKLED		SPRINKLED		HEIGHT	STORES	HEIGHT	STORES	A-5: 55'	UL	75'	UL 4
NON-SPRINKLED		SPRINKLED										
HEIGHT	STORES	HEIGHT	STORES									
A-5: 55'	UL	75'	UL 4									
Building Height												
PRESS BOX + ADDITION: 3 STORIES - APX 42'												
Allowable Area												
<table><tr><th>NON-SPRINKLED (INB)</th><th>SPRINKLED (IS)</th></tr><tr><td>A-5: UL</td><td>UL</td></tr></table>	NON-SPRINKLED (INB)	SPRINKLED (IS)	A-5: UL	UL								
NON-SPRINKLED (INB)	SPRINKLED (IS)											
A-5: UL	UL											
Building Area												
PRESS BOX: EXISTING BUILDING AREA: 4,379 SF NEW CONSTRUCTION BUILDING AREA: 1,419 SF TOTAL BUILDING AREA: 5,798 SF NORTH TICKET BOOTH: BUILDING AREA: 121 SF SOUTH TICKET BOOTH:												

Passive Fire Requirements
EXTERIOR BEARING WALLS: 0 HR
INTERIOR BEARING WALLS: 0 HR
EXTERIOR NON-BEARING WALLS: 0 HR (+30' FROM C.L. OF PROPERTY LINE, TABLE 602)
OPENING PROTECTION AT EXT. WALL: 0 HR (+30' FROM C.L. OF PROPERTY LINE, TABLE 705.4)
STRUCTURAL FRAME: 0 HR
ROOF SUPPORTS: 0 HR
NON-BEARING WALLS & INTERIOR PARTITIONS: 0 HR
CORRIDORS: 0 HR
FLOOR CONSTRUCTION: 0 HR

Active Fire Resistance Requirements
AUTOMATIC SPRINKLER SYSTEM: (SECTION 903) NOT REQUIRED
STANDPIPES: NOT REQUIRED (SECTION 909)
FIRE ALARM SYSTEM: NOT REQ'D. DUE TO OCCUPANT LOAD (SECTION 907.2.1)
SMOKE DETECTION: NOT REQUIRED
EXIT SIGNS: NOT REQUIRED IN ROOMS THAT REQUIRE ONLY ONE EXIT. (SECTION 1013)
EMERGENCY LIGHTING: MINIMUM OF 1 FOOTCANDLE AT THE WALKING SURFACE (SECTION 1008.2.1)
PORTABLE FIRE EXTINGUISHERS: REQUIRED (SECTION 908.1)

Means of Egress
COMMON PATH OF EGRESS TRAVEL: COMMON PATH OF EGRESS TRAVEL SHOULD NOT EXCEED 75 FEET FOR USE GROUP A IN NON-SPRINKLED BUILDINGS (IBC TABLE 1006.2.1). THE MAXIMUM OCCUPANT LOAD OF SPACE IS 49. TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1 (IBC SECTION 1006.2.1)
DEAD END CORRIDORS: DEAD END CORRIDORS SHOULD NOT EXCEED 20 FEET IN LENGTH FOR USE GROUP A (IBC SECTION 1020.4). DEAD END CORRIDORS IN AN EXISTING CONDITION SHOULD NOT EXCEED 35' (IEBC SECTION 805.6)
TRAVEL DISTANCE: THE MAXIMUM TRAVEL DISTANCE TO AN EXIT SHOULD NOT EXCEED 200 FEET FOR USE GROUP A OCCUPANCIES (IBC TABLE 1017.2)
DOOR SWING: DOOR SWING IS REQUIRED TO SWING IN THE DIRECTION OF TRAVEL WHEN THE OCCUPANT LOAD IS MORE THAN 50 (IBC SECTION 1010.1.2.1)

General Notes (Code Plans):
1. ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION. 2. CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR PEDESTRIAN AND TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION. 3. THE SIZE, TYPE, QUANTITY, AND LOCATION OF ALL TEMPORARY FIRE EXTINGUISHERS SHALL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION. 4. COORDINATE LOCATION OF KNOX BOX WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND THE AUTHORITY HAVING JURISDICTION IN THE FIELD.
Code Plan Legend:
Egress Path of Travel Path # Common Path of Travel, RE Schedule Travel Distance to Exit, RE Schedule
Egress Point Clear Width Provided Maximum # of Occupants (by width) Required # of Occupants
Stair Egress Clear Width Provided Maximum # of Occupants (by width) Required # of Occupants
Occupancy Tag Occupancy Group Area Occupant Load
Fire Extinguisher Radius 75' Typ
1-Hour: Fire Rated Assembly 2-Hour: Fire Rated Assembly 3-Hour: Fire Rated Assembly 4-Hour: Fire Rated Assembly Smoke Barrier Smoke Partition

Path of Egress Schedule	
Mark	Path of Egress
Path 2.01	37' - 4 5/8"
Path 2.02	40' - 9"
Path 3.01	72' - 5 1/16"

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**Lee's Summit R7 District
Athletics Facilities**

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Lee's Summit, MO 64086

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JAY DARREN BROWNING
ARCHITECT
9.28.20

Architectural Corporation
Missouri License No. 2018022991
Jay Darren Browning
Date: 09/28/2020
Architect License No. A-2009027279

REVISIONS

Number	DESCRIPTION	DATE
--------	-------------	------

PROJECT NO: 0119-0101
DATE: September 28, 2020

Code Summary - Home
Press Box & Ticket
Booths

N-G102
BID SET

LEE'S SUMMIT NORTH HIGH SCHOOL

SITE PLAN

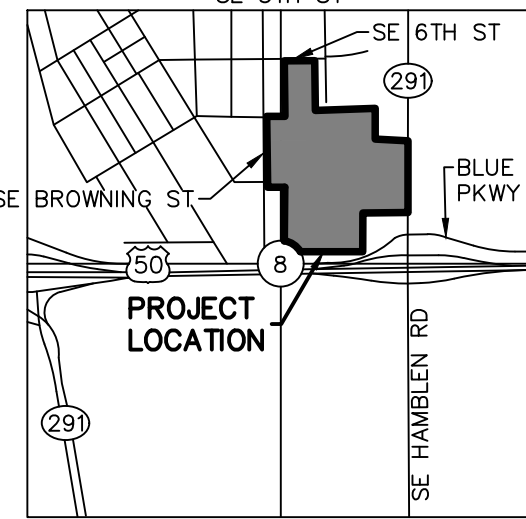
901 NE DOUGLAS ST, LEE'S SUMMIT, MO 64086
SECTION 31 - TOWNSHIP 48 N - RANGE 31 W

PREPARED FOR:

LEE'S SUMMIT SCHOOL DISTRICT
302 SE TRANSPORT RD,
LEE'S SUMMIT, MO 64081
PHONE: (816) 986-2421
CONTACT: KYLE GORRELL
EMAIL: kyle.gorrell@lsr7.net

PREPARED BY:

KAW VALLEY ENGINEERING, INC.
14700 W 114TH TERR.
LENEXA, KANSAS 66215
PHONE: (913) 894-5150
CONTACT: DAVID WOOD
EMAIL: wood@kveg.com



VICINITY MAP
SEC 8 - TWP 47N - RANG 31W
NOT TO SCALE

DETAILS - SEE DETAIL SHEET N-C900
FOR THE FOLLOWING DETAILS:

- 001 CONCRETE CURB
- 055 CONCRETE SIDEWALK
- 056 CONCRETE SIDEWALK RAMP

NOTES:

- DISTURBED AREA SHALL BE FERTILIZED, MULCHED AND SEEDED WITH A THREE WAY BLEND OF TALL TURF TYPE FESCUE. (REFER TO SEEDING REQUIREMENTS ON SHEET N-C900). ALL SEEDED AREAS WITHIN 10' OF SIDEWALKS AND BUILDING, WITHIN 5' OF STORM OUTFALLS AND ON SLOPES STEEPER THAN 4:1 SHALL BE PROTECTED WITH A TYPE 2 EROSION CONTROL BLANKET (NORTH AMERICAN GREEN 575BN OR APPROVED EQUAL.)
- CONCRETE STOOP (REFERENCE STRUCTURAL PLANS.)
- PROPOSED FENCING. (REFERENCE ARCHITECTURAL PLANS FOR HEIGHTS, MATERIALS AND DETAILS.)
- RELOCATED TURNSTILE (REFERENCE ARCHITECTURAL PLANS FOR DETAILS.)
- FILL VOID UNDER SOUTHWEST CORNER OF BLEACHERS WITH FLOWABLE FILL.
- ACCESS GATE. (REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS, HEIGHTS, MATERIALS AND DETAILS.)
- PROPOSED OR MODIFIED STORM SEWER STRUCTURE (SEE SHEET N-C500.)
- SANITARY SEWER STRUCTURE (SEE SHEET N-C500.)

HORIZONTAL AND VERTICAL DATUM:

THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE WEST ZONE (NAD 1983) (NAVD 1988) CAF: 0.9999999
1 METER = 3.28083333 U.S. SURVEY FEET
GROUND COORDINATES X COMBINED ADJUSTMENT FACTOR (CAF) = GRID COORDINATES
SCALED AROUND 0.0

JA-142 (PID: 095142)
NORTHING: 302106.953 (METERS) (GRID)
EASTING: 85860.058 (METERS) (GRID)
ELEVATION: 318.0 (METERS)

PROJECT CONTROL:

CP #201
1/2" REBAR FOUND "CAPPED CONTROL POINT"
NORTHING: 1005747.89
EASTING: 2824887.78
ELEV = 1029.48

CP #202
1/2" REBAR FOUND "CAPPED CONTROL POINT"
NORTHING: 1006282.63
EASTING: 2824855.59
ELEV = 1016.25

CP #204
SET 1/2" REBAR WITH CONTROL POINT CAP
NORTHING: 1005472.64
EASTING: 2825043.87
ELEV = 1022.57

SITE BENCHMARKS:

BM-60
CHISELED SQUARE ON EAST SIDE OF CONCRETE LIGHT POLE BASE AT SOUTHEAST CORNER OF PARKING LOT WEST OF STADIUM. (POLE # E-24)
ELEVATION= 1027.88

BM-64
CHISELED SQUARE ON NORTH SIDE OF CONCRETE LIGHT POLE BASE AT SOUTHWEST OF MAINTENANCE BUILDING AT SOUTH END OF TRACK. (POLE # E-26)
ELEVATION= 1023.18

SITE DATA:

PROJECT AREA/AREA OF DISTURBANCE
TOTAL: 16,999 SF (0.39 AC.)

IMPERVIOUS COVERAGE WITHIN PROJECT AREA

EXISTING: 9,965 S.F. - 0.23 AC.
PROPOSED: 12,158 S.F. - 0.28 AC.
INCREASE: 2,193 S.F. - 0.05 AC.

STORMWATER MANAGEMENT:

NO ADDITIONAL STORM WATER MANAGEMENT CONTROLS ARE PROPOSED AS PART OF THIS PROJECT.

Point Table				
Point #	Northing	Easting	Elevation	Description
1	1006130.16	2824982.59	0.00	SW
2	1006109.93	2824982.99	0.00	OBC
3	1006108.36	2824997.64	0.00	SW
4	1006082.79	2824996.78	0.00	SW
5	1006079.01	2824988.57	0.00	SW
6	1006079.01	2824977.83	0.00	SW
7	1006092.58	2824951.64	0.00	SW
8	1006096.02	2824943.27	0.00	SW
9	1006119.19	2824944.76	0.00	SW
10	1006131.27	2824959.75	0.00	SW
11	1006110.28	2824971.66	0.00	OBC

Point Table				
Point #	Northing	Easting	Elevation	Description
12	1005786.99	2824959.78	0.00	OBC
13	1005786.83	2824945.16	0.00	SW
14	1005808.23	2824944.16	0.00	SW
15	1005823.34	2824970.18	0.00	SW
16	1005822.86	2824984.08	0.00	SW
17	1005809.00	2824984.14	0.00	SW
18	1005808.39	2824999.71	0.00	SW
19	1005803.04	2824999.77	0.00	SW
20	1005798.06	2824994.02	0.00	SW
21	1005766.53	2824995.14	0.00	SW
22	1005766.45	2824985.26	0.00	SW

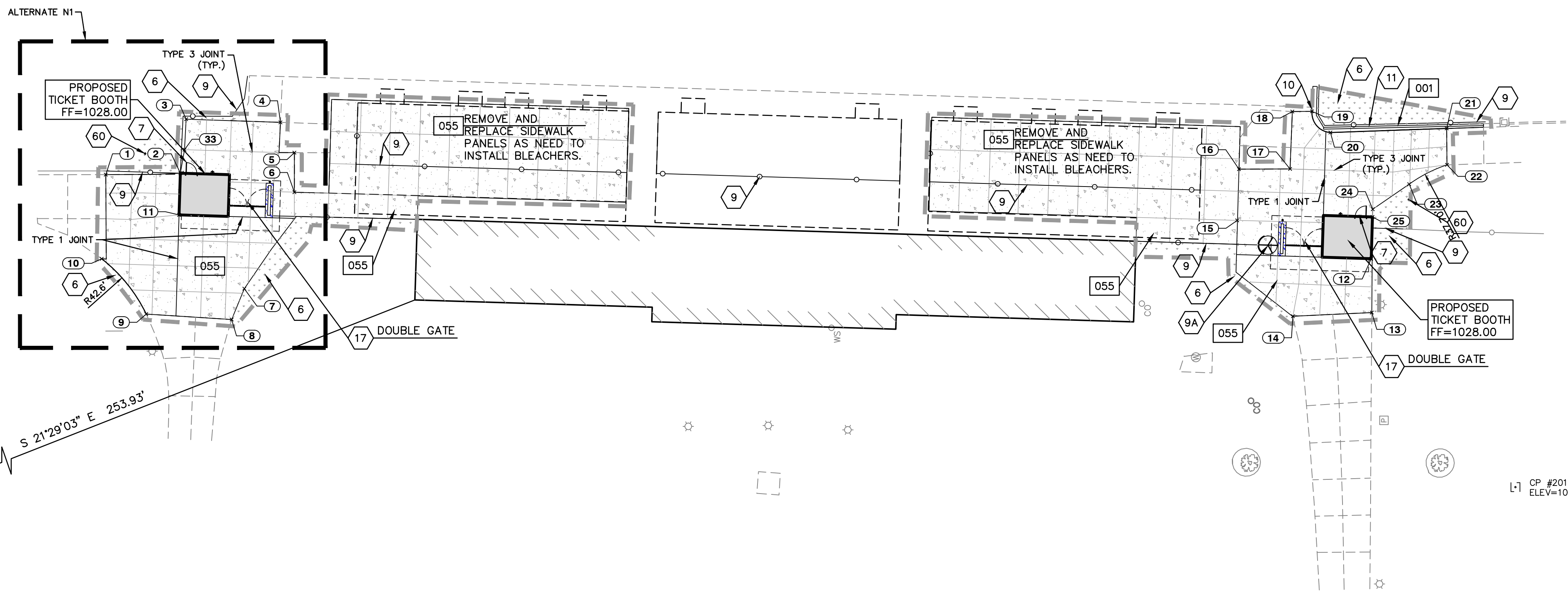
Point Table				
Point #	Northing	Easting	Elevation	Description
23	1005776.69	2824980.01	0.00	SW
24	1005786.58	2824973.21	0.00	SW
25	1005786.65	2824971.11	0.00	OBC
26	1005576.70	2825288.09	0.00	OBC
27	1005552.05	2825287.30	0.00	OBC
28	1005504.43	2825245.67	0.00	SW
29	1005504.69	2825237.69	0.00	SW
30	1005584.63	2825230.55	0.00	SW
31	1005593.85	2825241.44	0.00	SW
32	1005589.92	2825250.75	0.00	SW

LEGEND:	
SECTION CORNER	STORM SEWER MANHOLE
CONTROL POINT	SANITARY SEWER CLEAN OUT
BENCHMARK	DOWN SPOUT
MONUMENT FOUND ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED	GRATE INLET
OVERHEAD UTILITY LINE (# OF LINES)	FLARED END SECTION
LIGHT POLE	STREET/TRAFFIC SIGN
UTILITY POLE	TRAFFIC SIGNAL LIGHT POLE
ELECTRIC METER	HANDICAP SYMBOL
AIR CONDITIONER	PARKING STALL COUNT
GAS METER	HANDICAP SIGN
WATER METER	DECIDUOUS TREE
WATER LINE GATE VALVE	CONEFEROUS TREE
FIRE HYDRANT	TREE LINE
WATER SPOUT	TURN LANE DIRECTION
SPRINKLER VALVE	CONCRETE PAVEMENT (055)
BREAKER BOX	AREA TO BE SEEDED. SEE NOTE 6.
ELECTRIC OUTLET	CONCRETE CURB AND GUTTER
DOOR ELEVATION (AT THRESHOLD)	CONCRETE CURB AND GUTTER WITH REVERSE FLOW
FINISH FLOOR ELEVATION	L LANDING
BUSH	R RAMP
BASKETBALL GOAL	T TRANSITION
SPLICE BOX	
UTILITY VAULT	
SANITARY SEWER MANHOLE	
LIMITS OF DISTURBANCE	

- NOTE:**
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
 - THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.

CONSTRUCTION NOTES:

- COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH THE ARCHITECT.
- CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE KANSAS CITY METROPOLITAN CHAPTER OF APWA STANDARD SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT.
- ALL CONSTRUCTION WORK AND UTILITY WORK SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.



WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.



PROJ. NO. C20_0691 DSN: DDW DAVID D. WOOD
CFN: 0691SP-LSN.DWG DWN: NUN ENGINEER
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KV KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21



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Lee's Summit R7 District Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

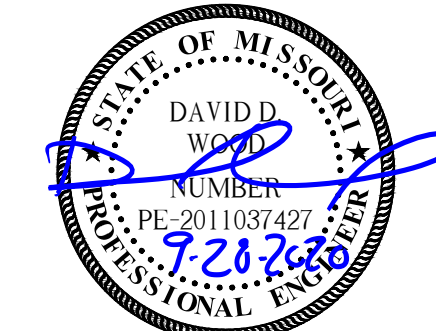
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structural engineer:
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4338 Bellevue
Kansas City, MO 64111
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14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

SITE AND DIMENSION PLAN

N-C100

BID SET

**Lee's Summit R7 District
Athletics Facilities**

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901 NE Douglas Street
Lee's Summit, MO 64086

owner:
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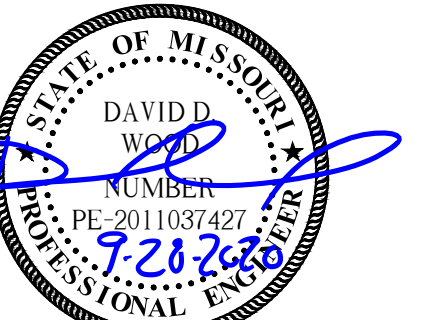
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REVISIONS

Number	DESCRIPTION	DATE

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

**DEMOLITION AND EROSION
CONTROL PLAN**

N-C200

BID SET

LEGEND:

—○— UNDERGROUND GAS	HDPE HIGH DENSITY POLYETHYLENE
—□— GAS METER	—○— GAS VALVE
—□— CONTROL POINT	—○— GAS RISER
—●— BENCHMARK	—○— GAS LINE SIGN
—○— GATE POST	—○— DOOR ELEVATION
—○— CHAIN LINK FENCE	—○— AT THRESHOLD
—○— STREET/TRAFFIC SIGN	—○— FINISH FLOOR ELEVATION
—FOC— UNDERGROUND FIBER OPTIC CABLE	BHE BUILDING HEIGHT/ELEVATION
—FOC(R)— UNDERGROUND FIBER OPTIC (FROM RECORDS)	B/B BACK TO BACK OF CURB MEASUREMENT
—○— TELEPHONE PEDESTAL	E/E EDGE TO EDGE OF ASPHALT
—○— SANITARY SEWER MANHOLE	—○— WATER LINE
—○— STORM SEWER MANHOLE	—○— WATER METER
—○— AREA INLET	—○— WATER LINE GATE VALVE
—○— CURB INLET	—○— BUSH
—○— SANITARY SEWER CLEAN OUT	—○— DECIDUOUS TREE
—○— DOWN SPOUT	—○— TRASH ENCLOSURE
—○— FLOOR DRAIN	—○— LANDSCAPING AREA
—○— FLARED END SECTION	CONC CONCRETE
—○— SANITARY SEWER LINE	—○— FLAG POLE
—○— STORM SEWER LINE	—○— ELECTRIC METER
—○— CORRUGATED METAL PIPE	—○— UNDERGROUND ELECTRIC PEDESTAL
—○— REINFORCED CONCRETE PIPE	—○— LANDING
—○— UNDERGROUND ELECTRIC	—○— RAMP
—○— OVERHEAD UTILITY LINE (# OF LINES)	—○— UNDERGROUND GAS PER RECORD
—○— PULL BOX	—○— SANITARY SEWER LINE PER RECORD
—○— LIGHT POLE	—○— STORM SEWER LINE PER RECORD
—○— UTILITY POLE	—○— ASPHALT PAVING TO BE REMOVED
—○— UTILITY POLE W/ LIGHT	—○— CONCRETE PAVING/SIDEWALKS TO BE REMOVED
—○— UTILITY POLE W/ TRANSFORMER	—○— LIMITS OF DISTURBANCE
—○— WATER LINE PER RECORD	
—○— UNDERGROUND ELECTRIC PER RECORD	
—○— CONIFEROUS TREE	
—○— TREE LINE	

EROSION & PROPOSED IMPROVEMENTS LEGEND:

—1218— EXISTING GROUND CONTOUR (1' INTERVALS)
—1218— PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
—○— GRAVEL FILTER BAGS
—○— SEDIMENTATION FENCE
—○— CONSTRUCTION ENTRANCE
—○— LIMITS OF DISTURBANCE
—○— CONCRETE WASH AREA

NOTE:
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE ALL BUILDINGS, UTILITIES, PAVEMENT, FOUNDATIONS, FENCES, CURBS AND ALL OTHER STRUCTURES FROM WITHIN PROPERTY LINES EXCEPT AS DESIGNATED "TO REMAIN" OR "TO BE REMOVED BY OTHERS", IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF LEE'S SUMMIT AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF AUGUST 26, 2020.
2. ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE REGULATIONS.
3. ALL PAVING, FLATWORK AND OTHER STRUCTURES DESIGNATED TO BE REMOVED SHALL BE REMOVED FROM PROPERTY AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
4. ALL EXISTING UTILITIES ETC. LOCATED WITHIN THE BOUNDARIES OF THE PROPOSED BUILDING SHALL BE COMPLETELY REMOVED TO 10 FEET OUTSIDE OF BUILDING LINE.
5. CONTRACTOR SHALL VERIFY THAT ALL UTILITIES TO EXISTING STRUCTURES HAVE BEEN DISCONNECTED PRIOR TO COMMENCING DEMOLITION.

EROSION AND SEDIMENT CONTROL INSPECTION PROCEDURES

THE FOLLOWING PROCEDURES WILL BE USED TO MAINTAIN EROSION AND SEDIMENTATION CONTROLS.

1. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT PRODUCING RUNOFF AND DAILY DURING PROLONGED RAINFALL PERIODS.
2. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE MADE WITHIN 24 HOURS OF THE INSPECTION.
3. SEDIMENT WILL BE REMOVED FROM THE SILT BARRIERS WHEN IT HAS REACHED ONE-THIRD OF THE HEIGHT OF THE BARRIER.
4. SILT BARRIERS WILL BE INSPECTED FOR DEPTH OF ACCUMULATED SEDIMENT, TEARS, ATTACHMENT TO POSTS, AND STABILITY ON A WEEKLY BASIS.
5. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
6. THE CONSTRUCTION MANAGER WILL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, REPAIRS, AND REPORTING. THE DESIGNATED INDIVIDUALS WILL RECEIVE THE NECESSARY TRAINING FROM THE CONSTRUCTION MANAGER TO PROPERLY INSPECT AND MAINTAIN THE CONTROLS IN GOOD WORKING ORDER.

DEMOLITION

- 1 TO REMAIN.
- 10 FENCE AND FENCE POSTS TO BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS. REPLACE FENCE AS NOTED ON PLANS.
- 15 SAWCUT LINE. REMOVE PAVING AT NEAREST JOINT.
- 41 REMOVE CONCRETE CURB (SEE SHEET C100 FOR LIMITS)
- 55 CONTRACTOR TO REMOVE CONCRETE PAVING AND WALKS. (SEE SHEET C100 FOR LIMITS).

DETAILS - SEE N-C900 SERIES SHEETS FOR DETAILS

ESC-01 CONCRETE ENTRANCE AND CONCRETE WASHOUT
ESC-03 SILT FENCE

WARRANTY / DISCLAIMER

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CAUTION - NOTICE TO CONTRACTOR

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THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

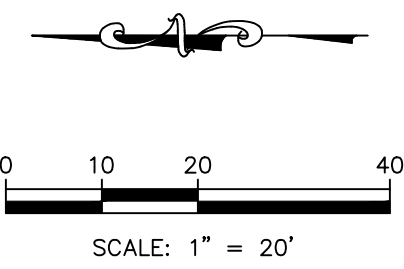
SAFETY NOTICE TO CONTRACTOR

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BM #60
ELEV=1027.96

GRADING NOTES:

1. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN TO FEET OF THE EDGE OF THE BUILDING OR PAVING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES. CONSTRUCTION MANAGER SHALL DESIGNATE LOCATION OF STOCKPILE AREAS DURING CONSTRUCTION. ANY UNAUTHORIZED STOCKPILE SHALL BE REMOVE/RELOCATED AT THE CONTRACTORS EXPENSE.
2. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 12-INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 WITH A MOISTURE CONTENT OF +/- 3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF LESS THAN 40 AND 0 TO +4% FOR SOILS WITH A LIQUID LIMIT GREATER THAN 40. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
3. OFF-SITE SOIL MATERIAL FOR USE UNDER BUILDING AND PAVED AREAS SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE OWNER'S TESTING AGENCY PRIOR TO BRINGING ON SITE.
4. EARTHWORK UNDER THE BUILDING, PAVING AND LIGHTLY LOADED STRUCTURAL FEATURES SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND PROJECT GEOTECHNICAL REPORT. THE BUILDING PAD SHALL BE EXCAVATED AS REQUIRED TO ALLOW THE PLACEMENT OF LOW VOLUME CHANGE MATERIAL. REFER TO GEOTECHNICAL REPORT FOR PREPARING BUILDING PAD AND LOW VOLUME CHANGE THICKNESS REQUIREMENTS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. LVC SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT OF 0 TO +4% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT GREATER THAN 40 AND +/- 3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT LESS THAN 40. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 24 INCHES OF EMBANKMENT.
5. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
6. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, THE OWNER'S ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
7. ALL EXCAVATIONS SHALL BE CONSIDERED AS UNCLASSIFIED. REFER TO PROJECT GEOTECHNICAL REPORT.
8. ALL DISTURBED SLOPES ARE TO BE 3:1 OR FLATTER.
9. ALL SLOPES DISTURBED EXCEEDING 4:1 SHALL BE HYDROSEEDDED, SODDED OR PROTECTED BY EROSION CONTROL BLANKETS THAT WILL PREVENT EROSION AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED. SEE GENERAL NOTES ON THIS SHEETS.
10. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND A MINIMUM OF FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON-SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SODDED OR SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. REFER TO THE NOTES ON THIS SHEET FOR TEMPORARY SEEDING SPECIFICATIONS. REFER TO PROJECT SITE PLAN FOR FINAL STABILIZATION TREATMENTS.
11. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
12. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
13. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
14. IF ANY OF THESE NOTES CONFLICT WITH THE PROJECT GEOTECHNICAL REPORT AND ALL ADDENDUMS PREPARED BY CFS ENGINEERS DATED (TBD), RECOMMENDATIONS IN GEOTECHNICAL REPORT SHALL GOVERN.

NOTE:
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.

GENERAL NOTES:

1. PROJECT AREA IS APPROXIMATE LIMITS OF CONSTRUCTION.
2. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.
3. THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION.
4. ALL SILT SHALL REMAIN WITHIN THE CONSTRUCTION LIMITS. SURROUNDING PARKING LOTS AND PLAYGROUNDS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
5. A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
6. ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
7. SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
8. CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE FILTER BAGS.
9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
10. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.
11. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SITUATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
12. TEMPORARY SEDIMENT FENCE/STRAW WATTLES TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
13. MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
14. INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES.
15. INSTALL CONSTRUCTION ENTRANCE AS NOTED.
16. AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED AS SHOWN ON THE SITE. IF GRADING ACTIVITIES CEASE ON AN AREA OF THE SITE DISTURBED SLOPES SHALL BE TEMPORARILY SEEDED IN ACCORDANCE WITH PLANS.
17. TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
18. STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ON TO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.
19. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
20. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.
21. ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE, ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
22. EROSION CONTROL IS TO BE PLACED IN PHASING AS CONSTRUCTION PROGRESSES.
23. MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED, CHUTE ETC. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON-DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.
24. EROSION CONTROL SEDIMENT FENCE OR STRAW WATTLE SHALL BE INSTALLED 1'-0" BEHIND CURB & GUTTER OR SIDEWALK UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM DISTURBED AREAS DRAIN TOWARDS CURB OR SIDEWALK. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

EROSION AND SEDIMENT CONTROL INSPECTION PROCEDURES

THE FOLLOWING PROCEDURES WILL BE USED TO MAINTAIN EROSION AND SEDIMENTATION CONTROLS.

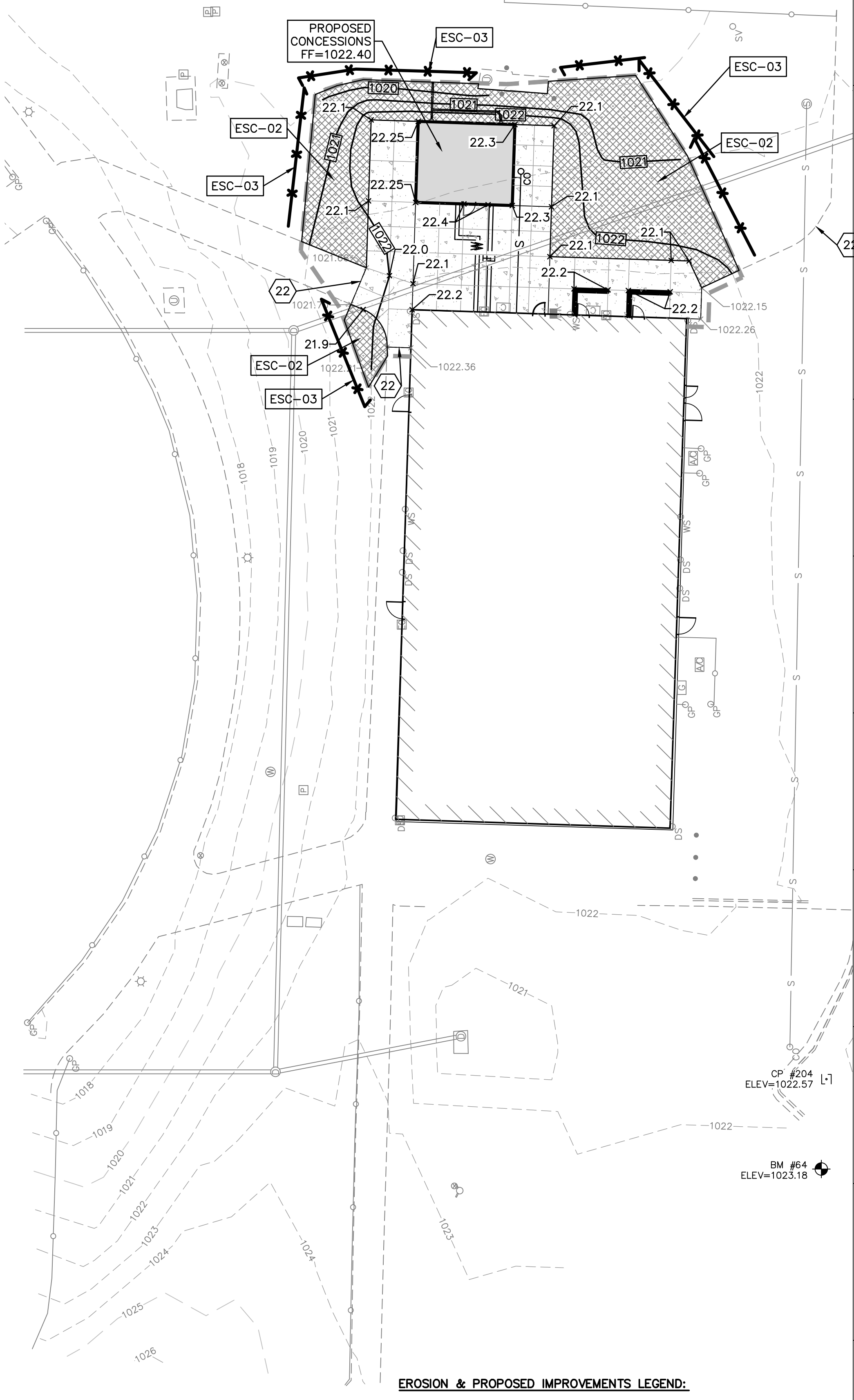
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2. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE MADE WITHIN 24 HOURS OF THE INSPECTION.
3. SEDIMENT WILL BE REMOVED FROM THE SILT BARRIERS WHEN IT HAS REACHED ONE-THIRD OF THE HEIGHT OF THE BARRIER.
4. SILT BARRIERS WILL BE INSPECTED FOR DEPTH OF ACCUMULATED SEDIMENT, TEARS, ATTACHMENT TO POSTS, AND STABILITY ON A WEEKLY BASIS.
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LEGEND (PROPOSED)

- 22.9 SPOT ELEVATION (ADD 1000).
- 950 FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT
- SWALE
- LP LOW POINT
- HP HIGH POINT

NOTES:

- 22 MATCH EXISTING SIDEWALK ELEVATION.
- 23 MATCH EXISTING PAVEMENT ELEVATION.
- DETAILS - SEE DETAIL SHEET NO. N-C900 AND N-C910
- ESC-01 CONCRETE ENTRANCE AND CONCRETE WASHOUT
- ESC-02 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT
- ESC-03 SILT FENCE



EROSION & PROPOSED IMPROVEMENTS LEGEND:

- 1218 EXISTING GROUND CONTOUR (1' INTERVALS)
- 1218 PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
- SEDIMENTATION FENCE (ESC-03)
- LIMITS OF DISTURBANCE
- GRAVEL FILTER BAGS
- CONCRETE WASH AREA
- EROSION CONTROL BLANKET/ TURF REINFORCEMENT MAT (ESC-02)

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Athletics Facilities

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901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R7 School District
301 NE Tudor Road
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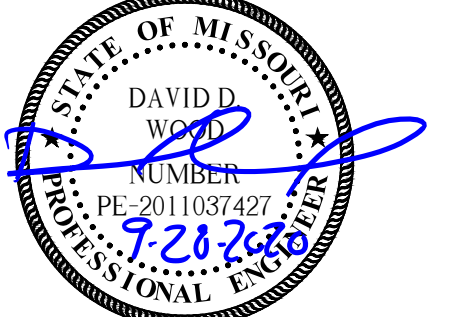
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Kaw Valley Engineering, Inc.
Missouri Certificate of Authority: 000842
David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

GRADING AND EROSION
CONTROL PLAN

N-C300

BID SET

HORIZONTAL AND VERTICAL DATUM:

THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE WEST ZONE (NAD 1983) (NAD 1983) CAF: 0.9998996
1 METER = 3.28083333 U.S. SURVEY FEET
GROUND COORDINATES X COMBINED ADJUSTMENT FACTOR (CAF) = GRID COORDINATES
SCALED AROUND 0.0

JA-142 (PID: 095142)
NORTHING: 302106.953 (METERS) (GRID)
EASTING: 858960.056 (METERS) (GRID)
ELEVATION: 318.0 (METERS)

PROJECT CONTROL:

CP #201
1/2" REBAR FOUND "CAPPED CONTROL POINT"
NORTHING: 1005747.89
EASTING: 2824897.78
ELEV = 1029.48

CP #202
1/2" REBAR FOUND "CAPPED CONTROL POINT"
NORTHING: 1006282.63
EASTING: 2824855.59
ELEV = 1016.25

CP #204
SET 1/2" REBAR WITH CONTROL POINT CAP
NORTHING: 1005472.64
EASTING: 2825043.87
ELEV = 1022.57

SITE BENCHMARKS:

BM-60
CHISELED SQUARE ON EAST SIDE OF CONCRETE LIGHT
POLE BASE AT SOUTHEAST CORNER OF PARKING LOT
WEST OF STADIUM. (POLE # E-24)
ELEVATION= 1027.98

BM-64
CHISELED SQUARE ON NORTH SIDE OF CONCRETE LIGHT
POLE BASE AT SOUTHWEST OF MAINTENANCE BUILDING AT
SOUTH END OF TRACK. (POLE # E-26)
ELEVATION= 1023.18

LEGEND:

- | | |
|---|--|
| SECTION CORNER | STORM SEWER MANHOLE |
| CONTROL POINT | SANITARY SEWER CLEAN OUT |
| BENCHMARK | DOWN SPOUT |
| MONUMENT FOUND | GRATE INLET |
| ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED | FLARED END SECTION |
| OVERHEAD UTILITY LINE (# OF LINES) | STREET/TRAFFIC SIGN |
| LIGHT POLE | TRAFFIC SIGNAL LIGHT POLE |
| UTILITY POLE | HANDICAP SYMBOL |
| ELECTRIC METER | PARKING STALL COUNT |
| AIR CONDITIONER | HANDICAP SIGN |
| GAS METER | DECIDUOUS TREE |
| WATER METER | CONIFEROUS TREE |
| WATER LINE GATE VALVE | TREE LINE |
| FIRE HYDRANT | TURN LANE DIRECTION |
| WATER SPOUT | CONCRETE PAVEMENT (042) |
| SPRINKLER VALVE | AREA TO BE SEEDDED. SEE NOTE 6. |
| BREAKER BOX | CONCRETE CURB AND GUTTER |
| ELECTRIC OUTLET | CONCRETE CURB AND GUTTER WITH REVERSE FLOW |
| DOOR ELEVATION (AT THRESHOLD) | LANDING |
| FINISH FLOOR ELEVATION | RAMP |
| BUSH | TRANSITION |
| BASKETBALL GOAL | SWALE |
| SPLICE BOX | LOW POINT |
| UTILITY VAULT | HIGH POINT |
| SANITARY SEWER MANHOLE | |

EROSION & PROPOSED IMPROVEMENTS LEGEND:

- | | |
|------|--|
| 1218 | EXISTING GROUND CONTOUR (1' INTERVALS) |
| 1218 | PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS) |
| X-X | SEDIMENTATION FENCE (ESC-03) |
| --- | LIMITS OF DISTURBANCE |
| ∞ | GRAVEL FILTER BAGS |
| CW | CONCRETE WASH AREA |
| --- | EROSION CONTROL BLANKET/ TURF REINFORCEMENT MAT (ESC-02) |

DETAILS - SEE DETAIL SHEET N-C900 AND N-C910 FOR THE FOLLOWING DETAILS:

- | | |
|--------|---|
| 001 | CONCRETE CURB |
| 055 | CONCRETE SIDEWALK |
| 056 | CONCRETE SIDEWALK RAMP |
| ESC-02 | EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT |
| ESC-03 | SILT FENCE |

NOTES:

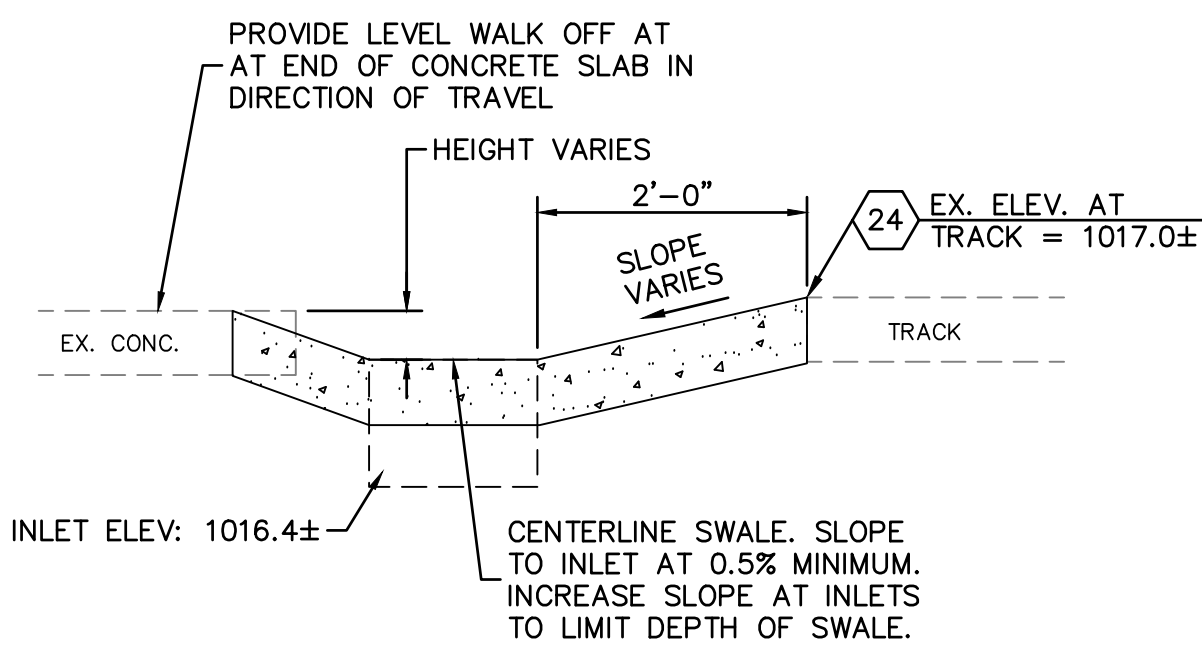
- DISTURBED AREA SHALL BE FERTILIZED, MULCHED AND SEEDDED WITH A THREE WAY BLEND OF TALL TURF TYPE FESCUE. (REFER TO SEEDING REQUIREMENTS ON SHEET C900.) ALL SEEDDED AREAS WITHIN 10' OF SIDEWALKS AND BUILDING, WITHIN 5' OF STORM OUTFALLS AND ON SLOPES STEEPER THAN 4:1 SHALL BE PROTECTED WITH A TYPE 2 EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S75BN OR APPROVED EQUAL.)
- PROPOSED FENCING. (REFERENCE ARCHITECTURAL PLANS FOR DETAILS.)
- REMOVE CHAINLINK FENCE.
- CONCRETE PAD FOR BLEACHER STAIR TO REMAIN. STEPS MAY NEED TO BE TEMPORARILY REMOVED TO COMPLETE DEMOLITION AND FLATWORK.
- MATCH EXISTING SIDEWALK ELEVATION.
- MATCH EXISTING TRACK ELEVATION.
- STORM STRUCTURE TO REMAIN. PROVIDE GRAVEL FILTER BAGS AT INLET DURING PAVING REMOVAL AND REPLACEMENT.

NOTE:

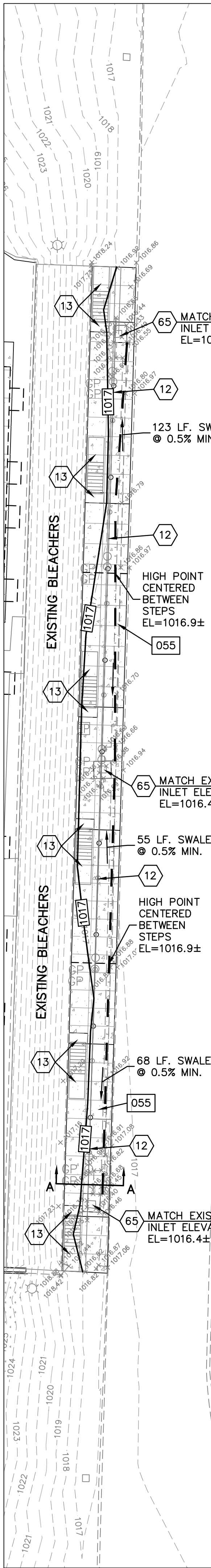
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.

CONSTRUCTION NOTES:

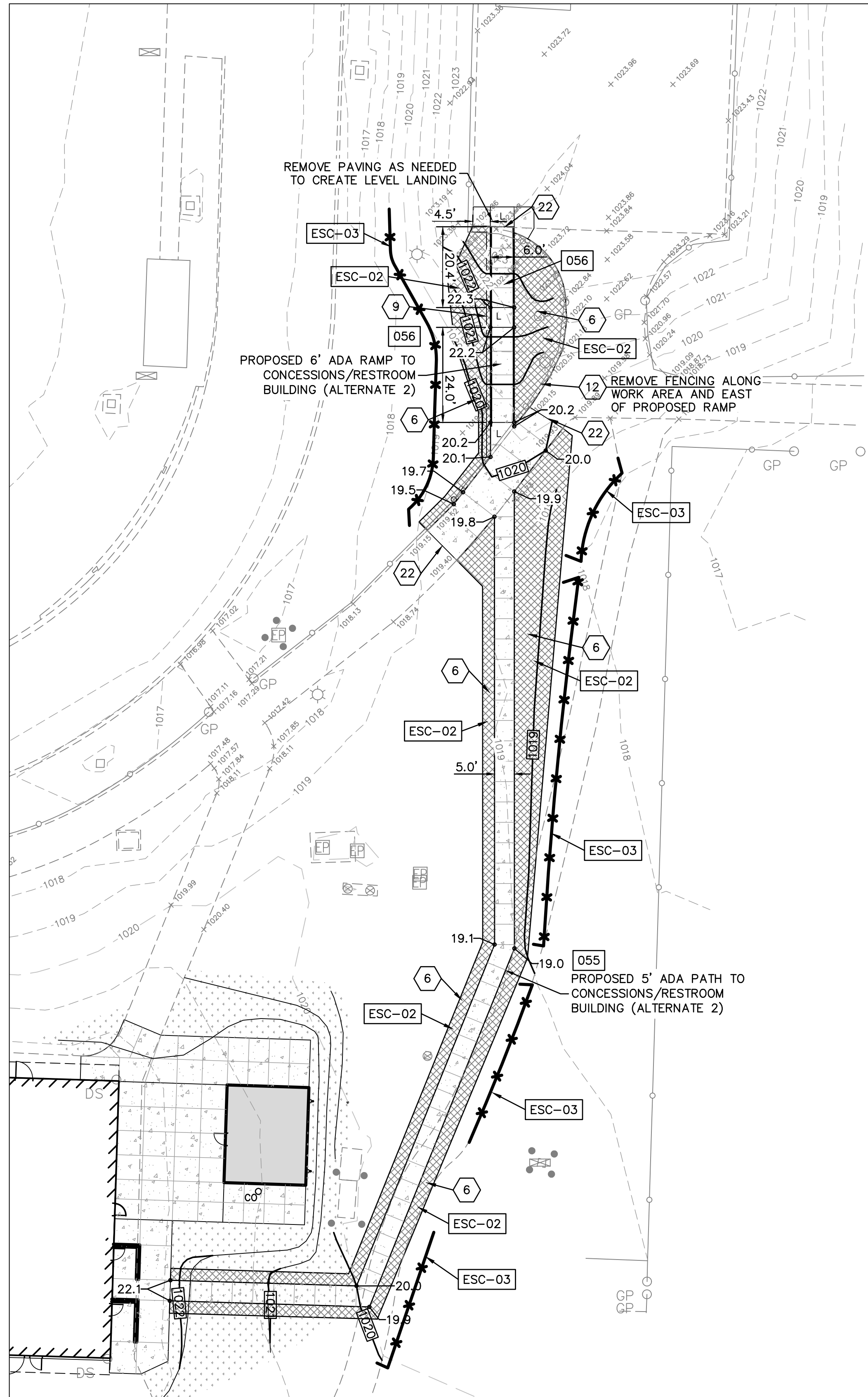
- COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH THE ARCHITECT.
- CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE KANSAS CITY METROPOLITAN CHAPTER OF APWA STANDARD SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT.
- ALL CONSTRUCTION WORK AND UTILITY WORK SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
- REFER TO GRADING NOTES ON SHEET C300.
- CONTRACTOR SHALL PROTECT TRACK AND TRACK SURFACING DURING CONSTRUCTION. ANY DAMAGE DUE TO CONSTRUCTION ACTIVITIES OR ACCESS SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
- CONTRACTOR TO SUBMIT CONSTRUCTION ACCESS LOGISTICS PLAN TO SCHOOL DISTRICT AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO COMMENCING ANY WORK IN CLOSE PROXIMITY TO TRACK. TRACK SURFACE IS NOT SUITABLE FOR HEAVY EQUIPMENT.



SECTION A-A



ALTERNATE N4
SEE CONSTRUCTION NOTES 5 AND 6



ALTERNATE N5

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.



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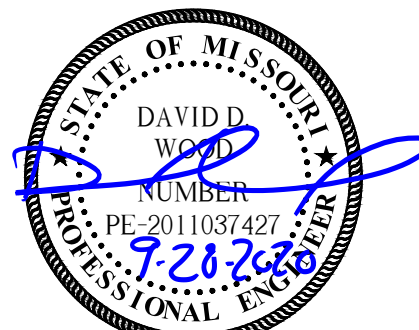
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David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0100
DATE: SEPTEMBER 28, 2020

SITE AND GRADING PLAN ALTERNATE

N-C310

BID SET

18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

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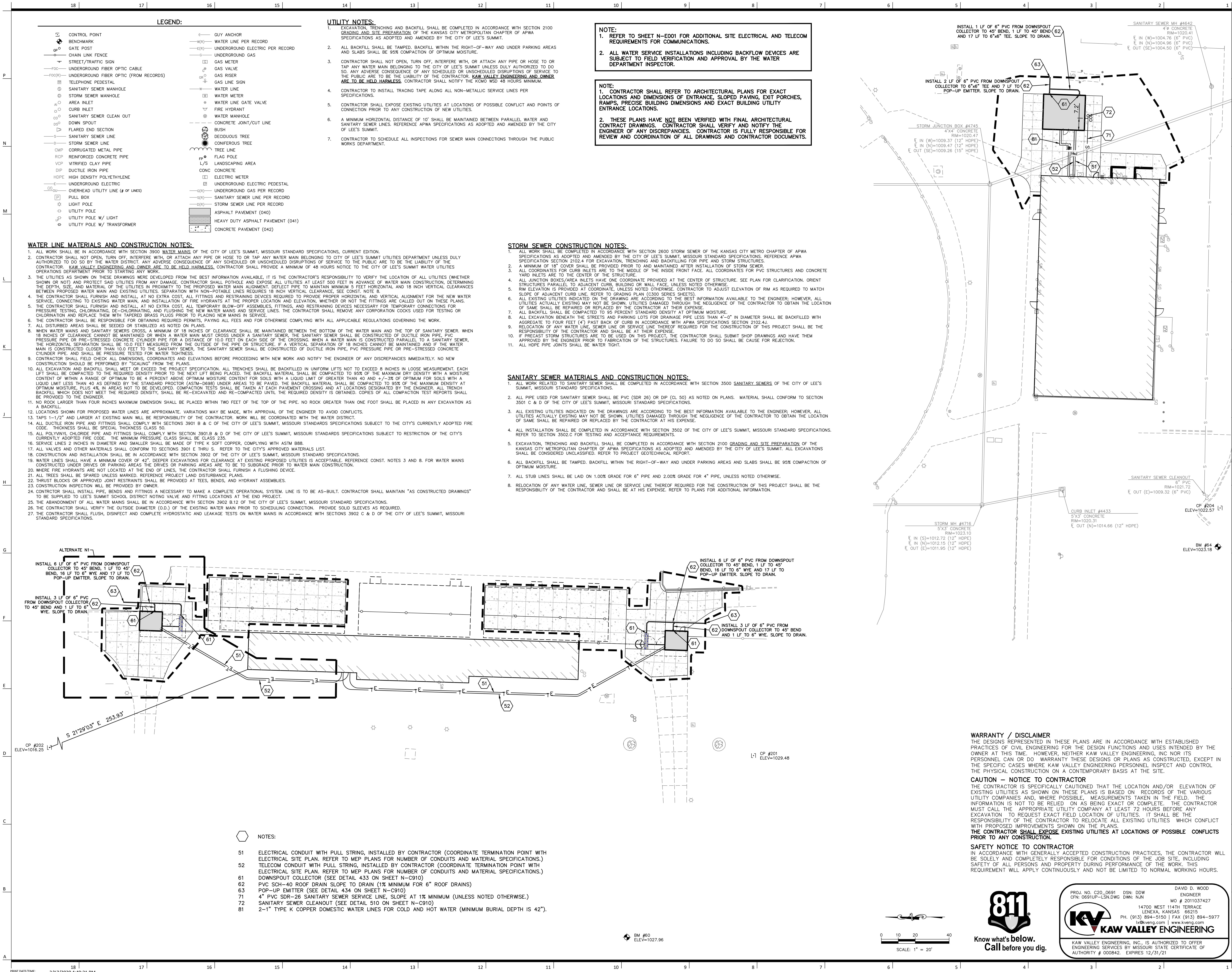
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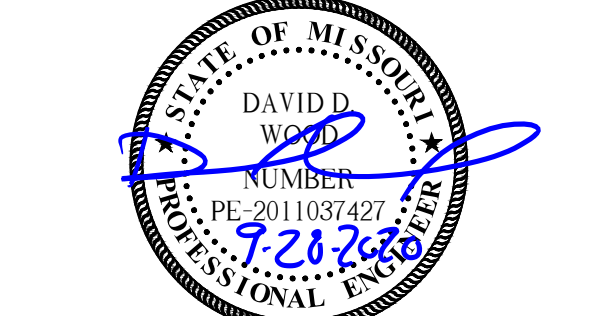
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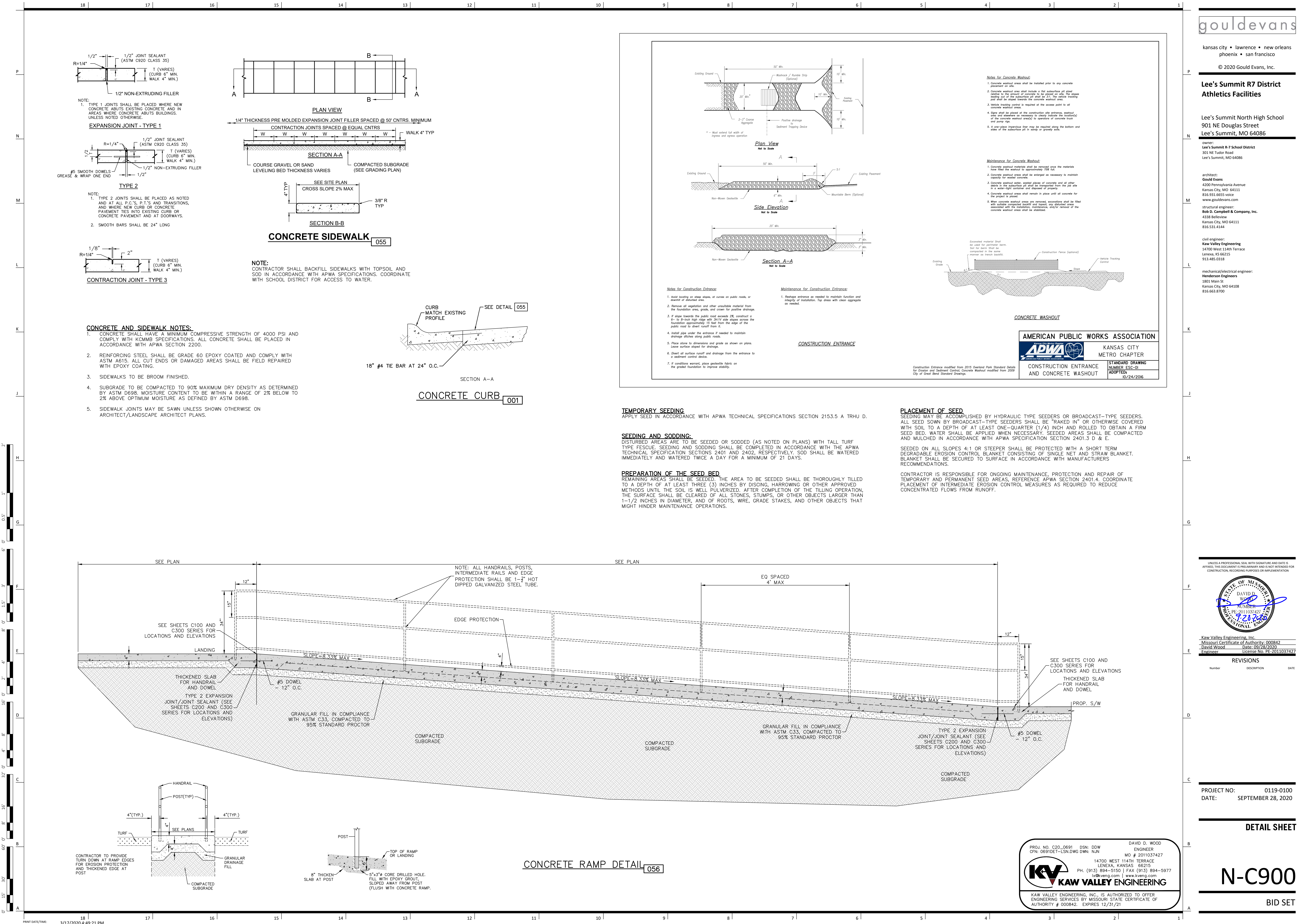
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UTILITY PLAN

N-C500

BID SET



AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT	STANDARD DRAWING NUMBER ESC-01 ADOPTED: 10/24/2016

Construction Entrance modified from 2010 Overland Park Standard Details for Grading and Sediment Control, Concrete Washout, modified from 2009 City of Great Bend Standard Drawings.

TEMPORARY SEEDING
APPLY SEED IN ACCORDANCE WITH APWA TECHNICAL SPECIFICATIONS SECTION 2153.5 A THRU D.

SEEDING AND SODDING:
DISTURBED AREAS ARE TO BE SEEDDED OR SODDED (AS NOTED ON PLANS) WITH TALL TURF TYPE PESCUE. SEEDING AND SODDING SHALL BE COMPLETED IN ACCORDANCE WITH THE APWA TECHNICAL SPECIFICATION SECTIONS 2401 AND 2402, RESPECTIVELY. SOD SHALL BE WATERED IMMEDIATELY AND WATERED TWICE A DAY FOR A MINIMUM OF 21 DAYS.

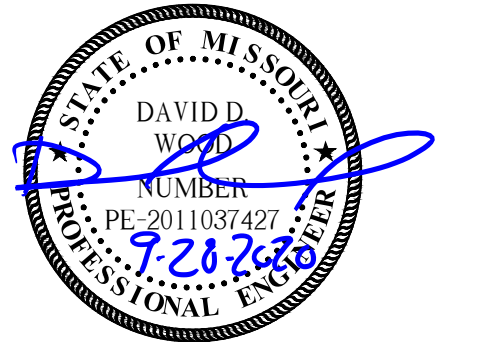
PREPARATION OF THE SEED BED
REMAINING AREAS SHALL BE SEEDDED. THE AREA TO BE SEEDDED SHALL BE THOROUGHLY TILLED TO A DEPTH OF AT LEAST THREE (3) INCHES BY DISCING, HARROWING OR OTHER APPROVED METHODS UNTIL THE SOIL IS WELL PULVERIZED. AFTER COMPLETION OF THE TILLING OPERATION, THE SURFACE SHALL BE CLEARED OF ALL STONES, STUMPS, OR OTHER OBJECTS LARGER THAN 1-1/2 INCHES IN DIAMETER, AND OF ROOTS, WIRE, GRADE STAKES, AND OTHER OBJECTS THAT MIGHT HINDER MAINTENANCE OPERATIONS.

PLACEMENT OF SEED
SEEDING MAY BE ACCOMPLISHED BY HYDRAULIC TYPE SEEDERS OR BROADCAST-TYPE SEEDERS. ALL SEED SOWN BY BROADCAST-TYPE SEEDERS SHALL BE "RAKED IN" OR OTHERWISE COVERED WITH SOIL TO A DEPTH OF AT LEAST ONE-QUARTER (1/4) INCH AND ROLLED TO OBTAIN A FIRM SEED BED. WATER SHALL BE APPLIED WHEN NECESSARY. SEEDDED AREAS SHALL BE COMPACTED AND MULCHED IN ACCORDANCE WITH APWA SPECIFICATION SECTION 2401.3 D & E.

SEEDED ON ALL SLOPES 4:1 OR STEEPER SHALL BE PROTECTED WITH A SHORT TERM DEGRADABLE EROSION CONTROL BLANKET CONSISTING OF SINGLE NET AND STRAW BLANKET. BLANKET SHALL BE SECURED TO SURFACE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE, PROTECTION AND REPAIR OF TEMPORARY AND PERMANENT SEED AREAS, REFERENCE APWA SECTION 2401.4. COORDINATE PLACEMENT OF INTERMEDIATE EROSION CONTROL MEASURES AS REQUIRED TO REDUCE CONCENTRATED FLOWS FROM RUNOFF.

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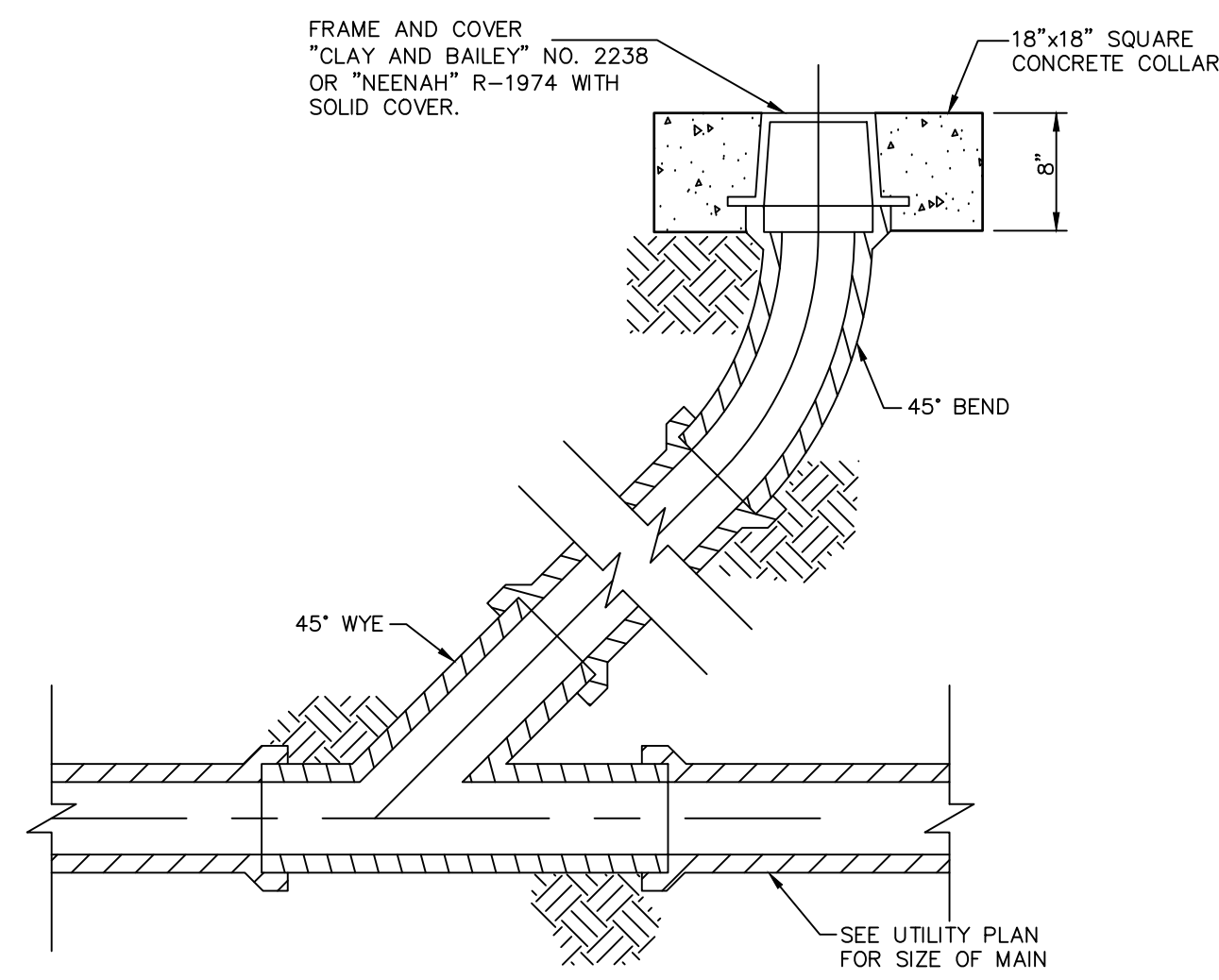
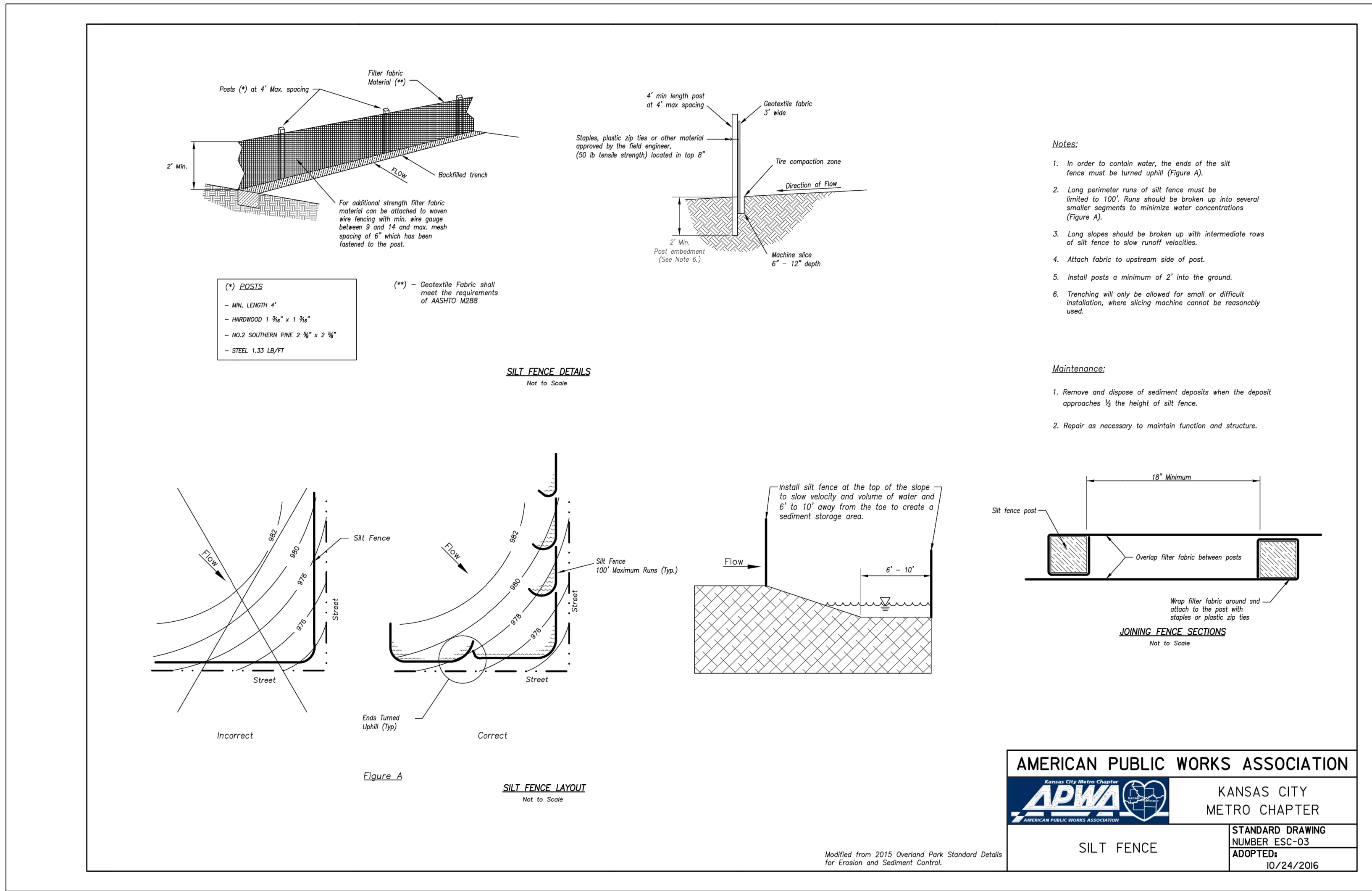
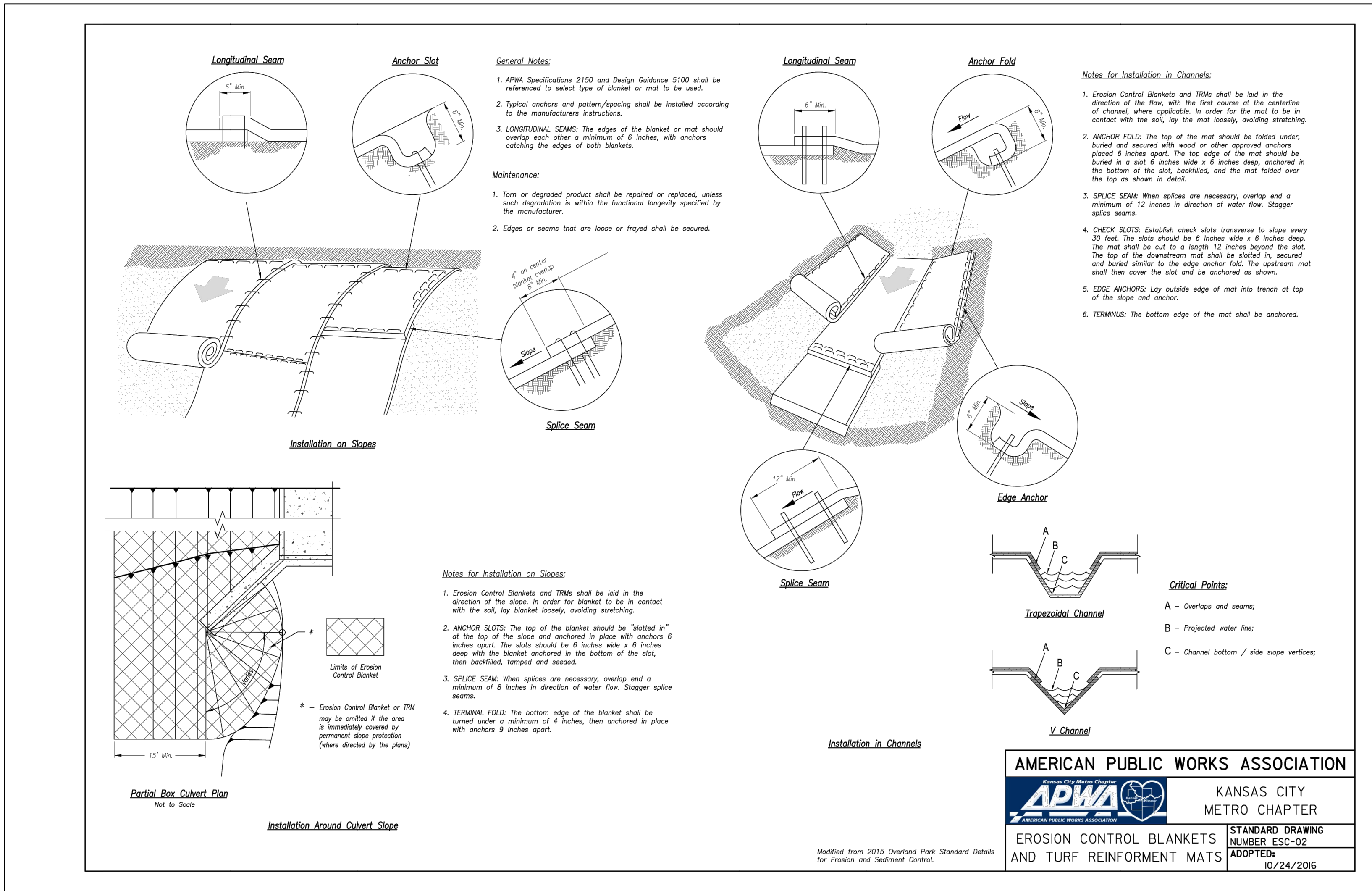
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DWN: NJN

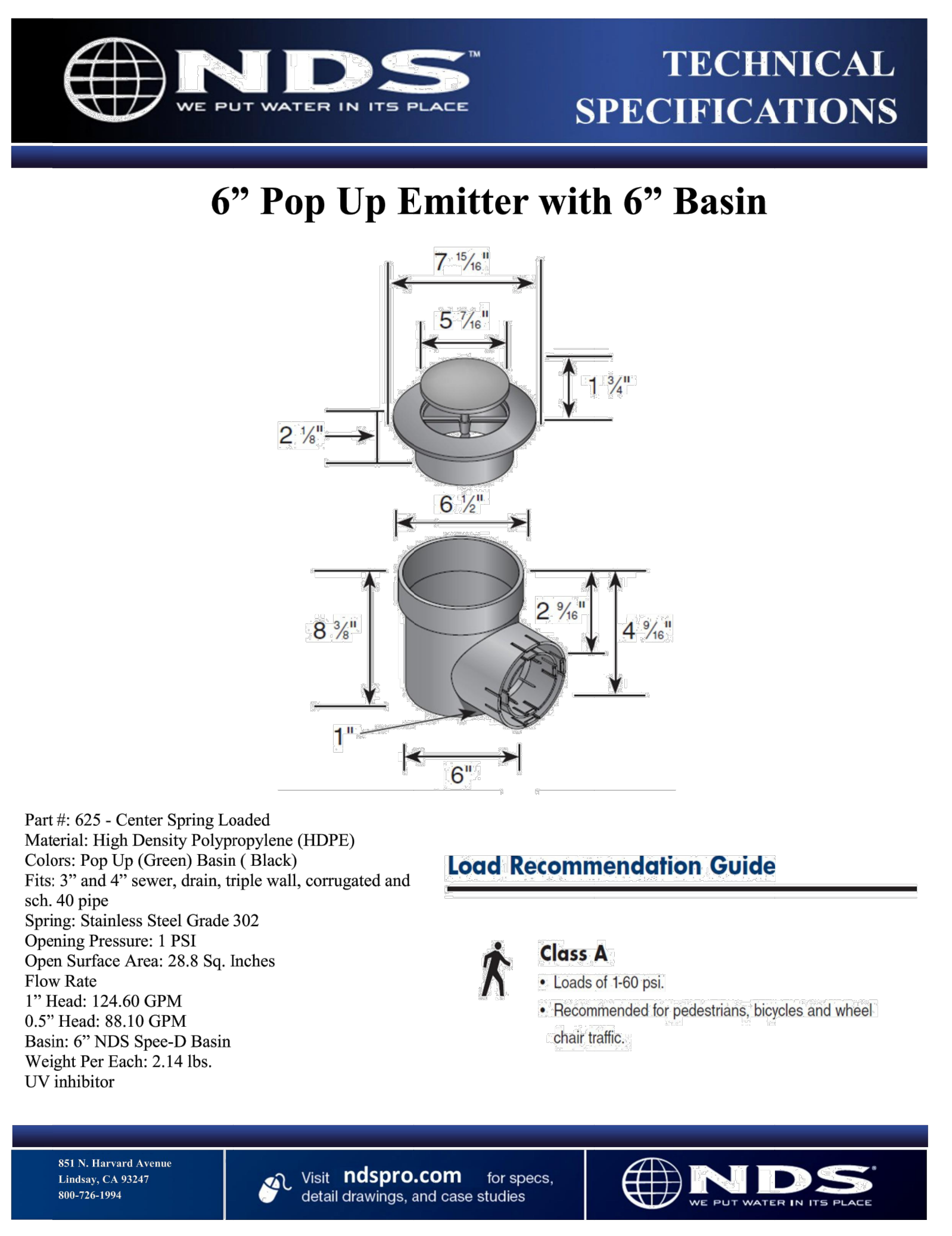
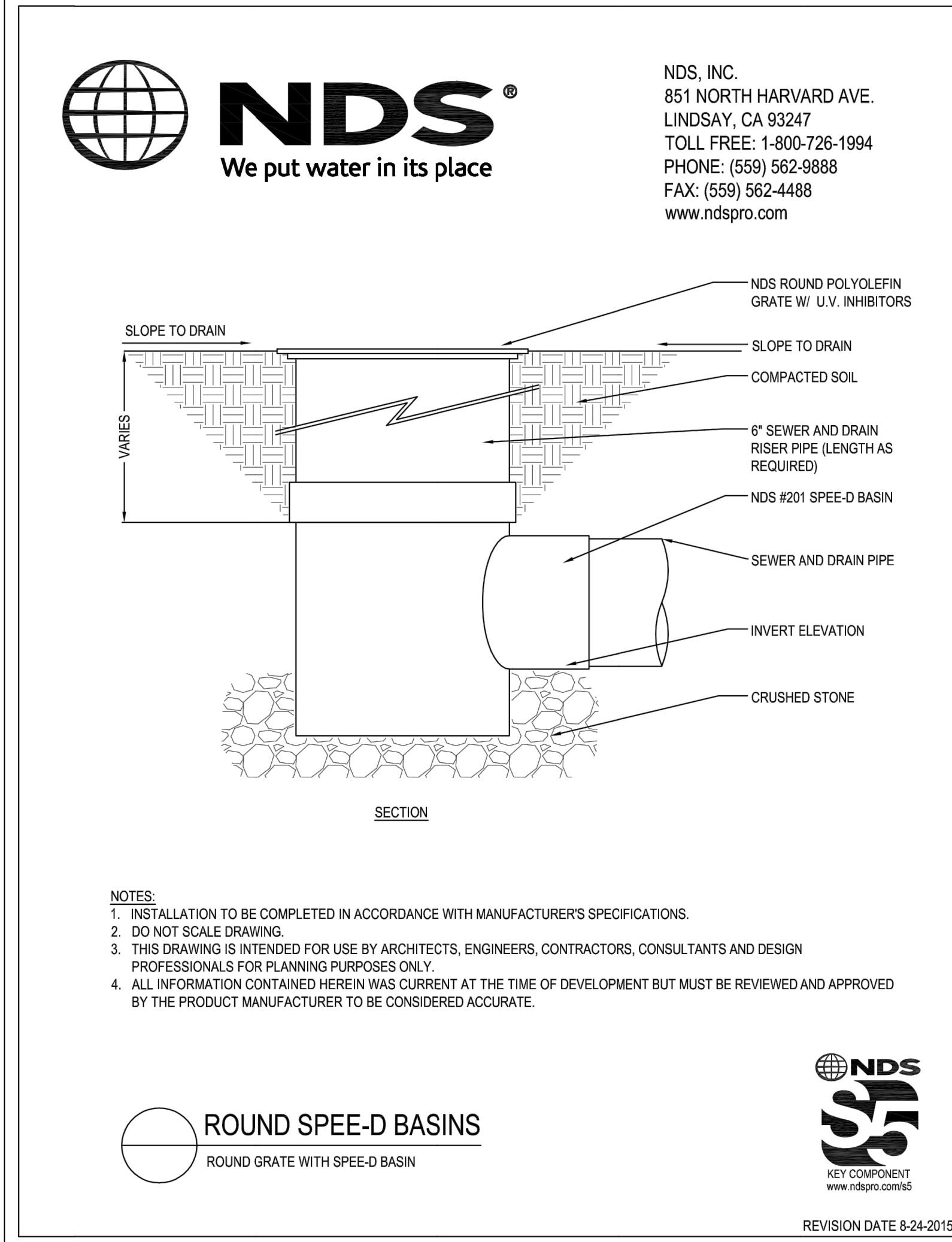
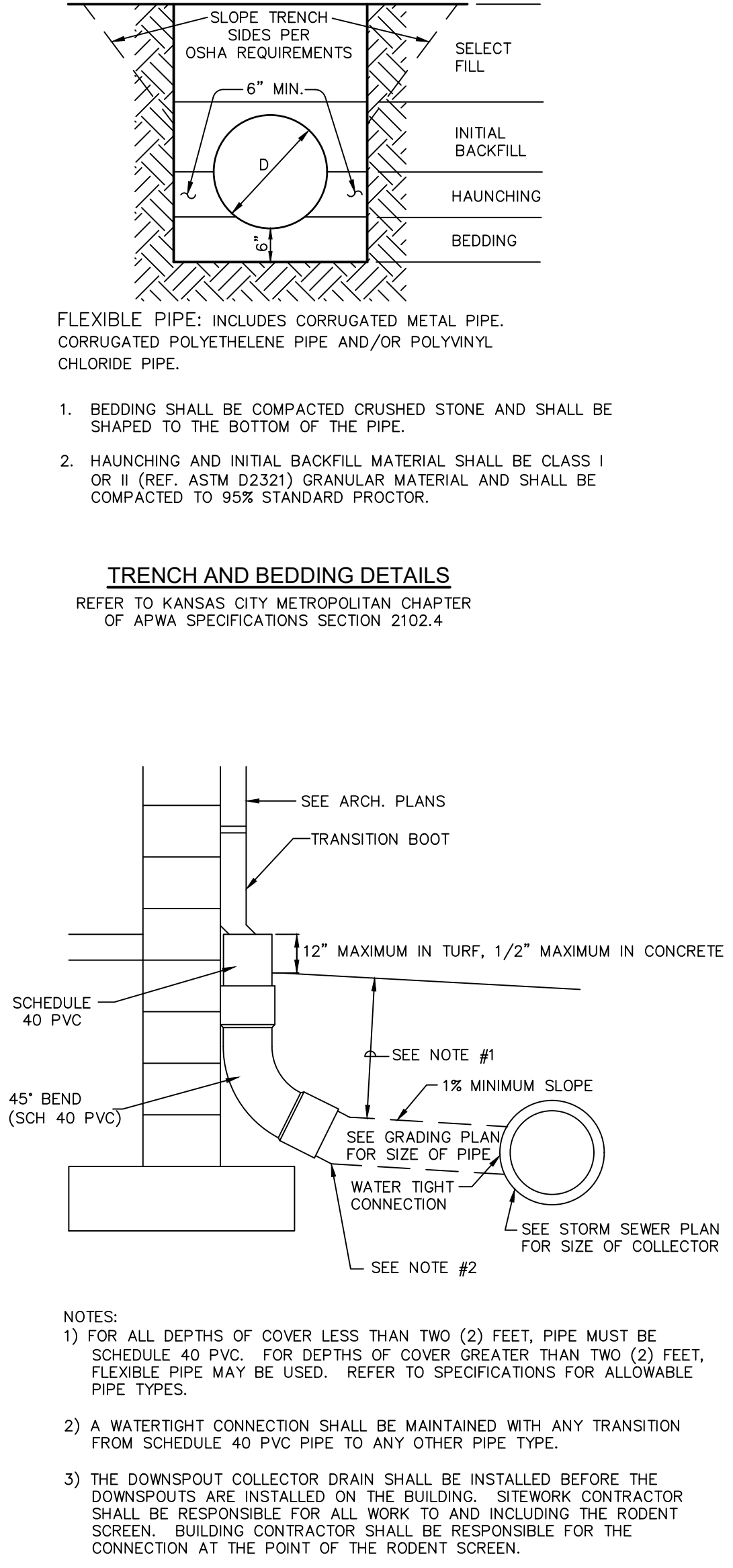
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CLEAN-OUT 510



POP-UP EMITTER 434

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STATE OF MISSOURI
DAVID D. WOOD
PE-2011037427
Professional Engineer

Kaw Valley Engineering, Inc.
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David Wood Date: 09/28/2020
Engineer License No. PE-2011037427

REVISIONS

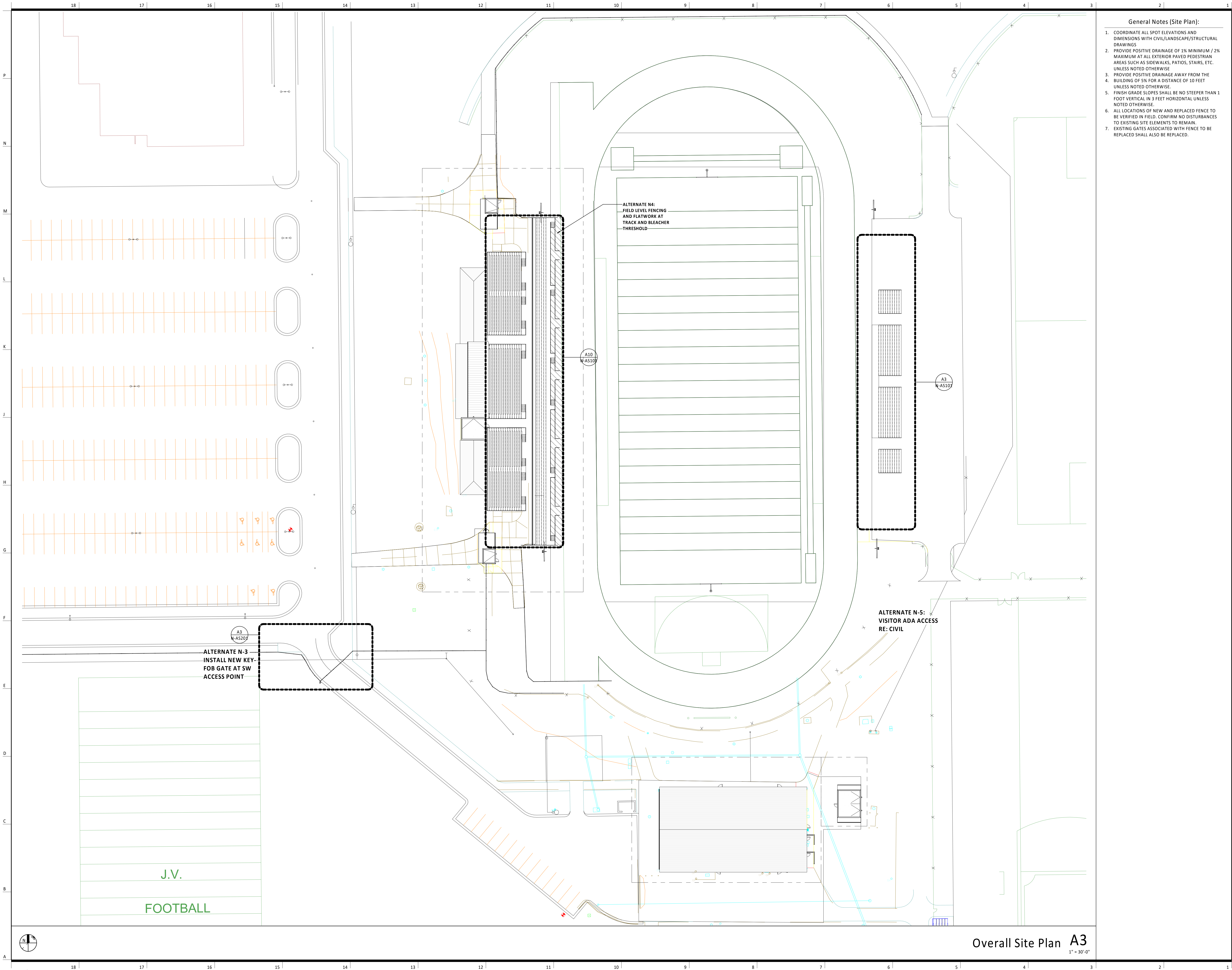
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DETAIL SHEET

N-C910

BID SET



- General Notes (Site Plan):**
- COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS
 - PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE
 - PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OF 5% FOR A DISTANCE OF 10 FEET UNLESS NOTED OTHERWISE
 - FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE
 - ALL LOCATIONS OF NEW AND REPLACED FENCE TO BE VERIFIED IN FIELD. CONFIRM NO DISTURBANCES TO EXISTING SITE ELEMENTS TO REMAIN
 - EXISTING GATES ASSOCIATED WITH FENCE TO BE REPLACED SHALL ALSO BE REPLACED

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Architectural Corporation
Missouri License No. 2018022991
Jay Darren Browning Date: 09/28/2020
Architect License No. A-2009027279

REVISIONS		
Number	DESCRIPTION	DATE

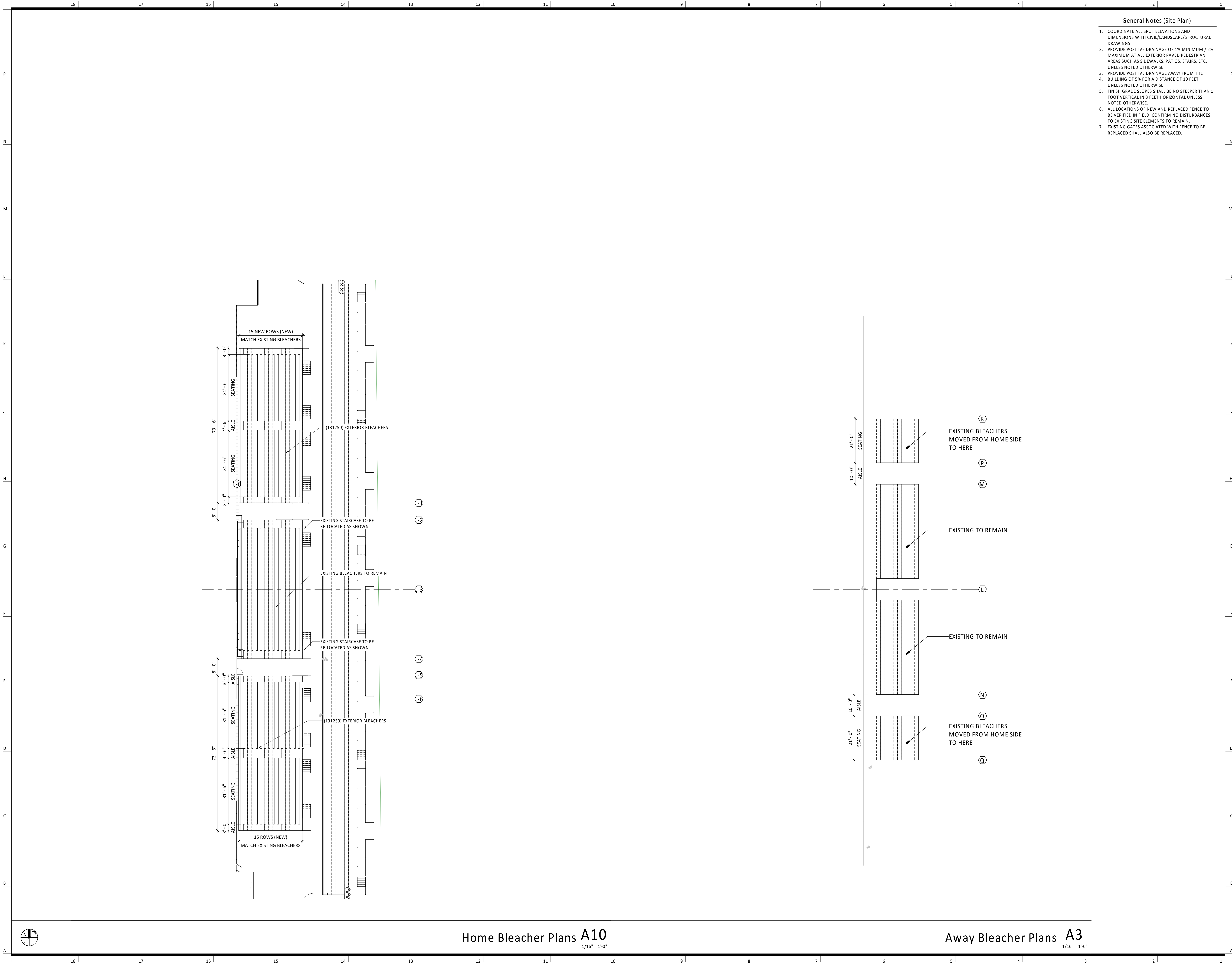
PROJECT NO: 0119-0101
DATE: September 28, 2020

Architectural Site Plan

N-AS001

BID SET

Overall Site Plan **A3**
1" = 30'-0"



- General Notes (Site Plan):
- COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS
 - PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC. UNLESS NOTED OTHERWISE
 - PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING OF 5% FOR A DISTANCE OF 10 FEET UNLESS NOTED OTHERWISE.
 - FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS NOTED OTHERWISE.
 - ALL LOCATIONS OF NEW AND REPLACED FENCE TO BE VERIFIED IN FIELD. CONFIRM NO DISTURBANCES TO EXISTING SITE ELEMENTS TO REMAIN.
 - EXISTING GATES ASSOCIATED WITH FENCE TO BE REPLACED SHALL ALSO BE REPLACED.

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Lee's Summit R7 District Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
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structural engineer:
Bob D. Campbell & Company, Inc.
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816.531.4144

civil engineer:
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14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

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Jay Darren Browning
Architect License No. A-2009027279

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Bleacher Plans

N-AS101

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BID SET

[illegible]

Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

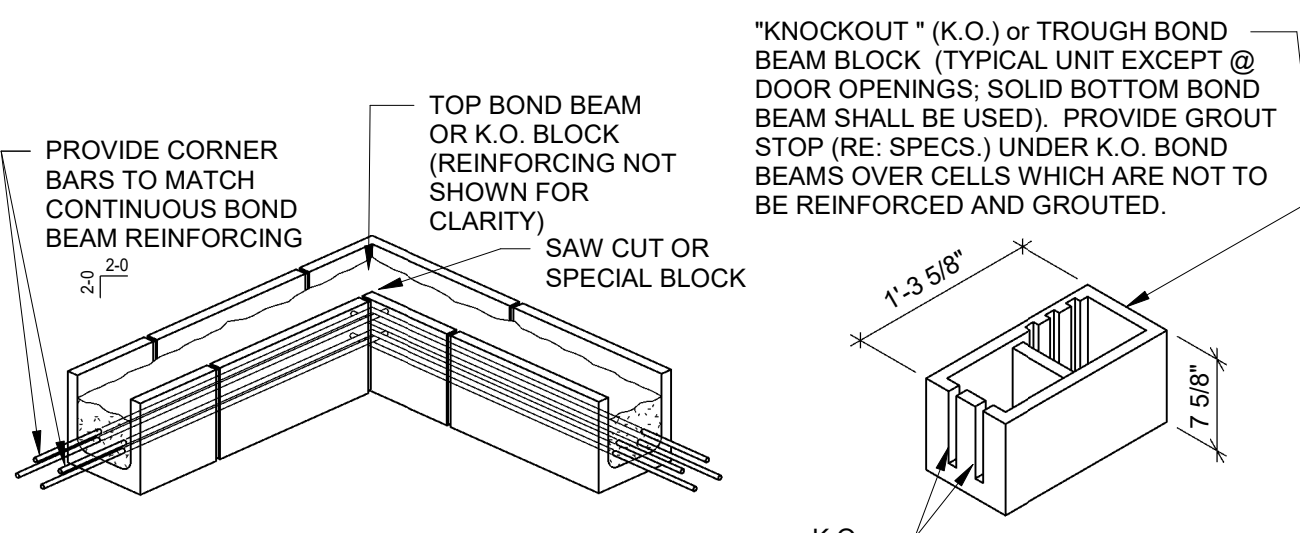
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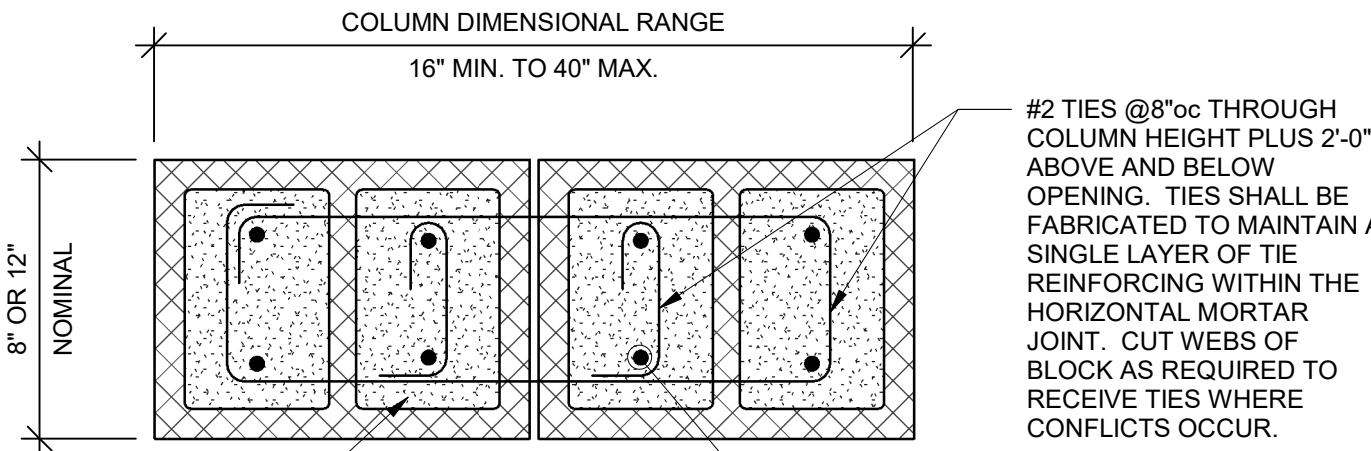
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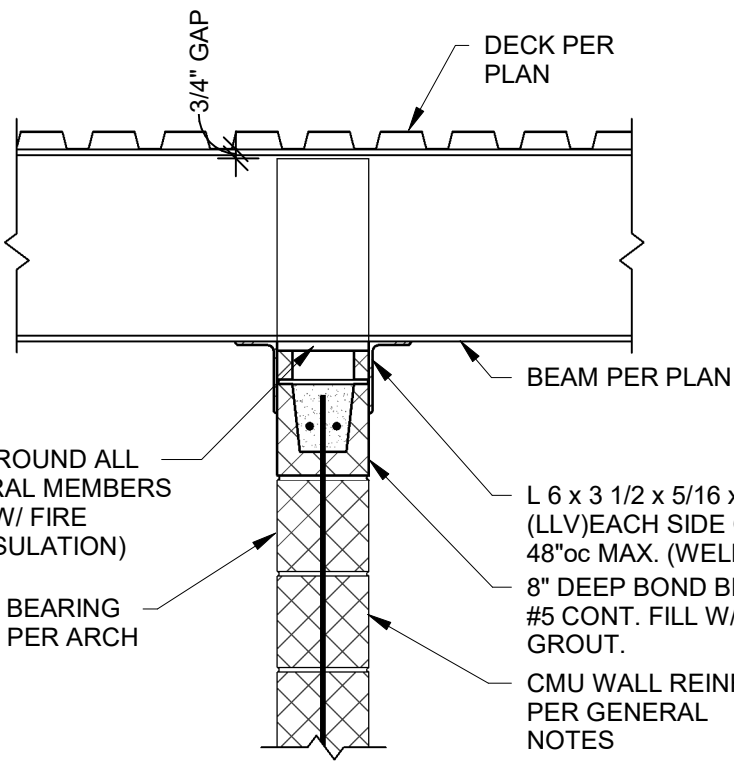
TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL

D DETAIL
3/4" = 1'-0"



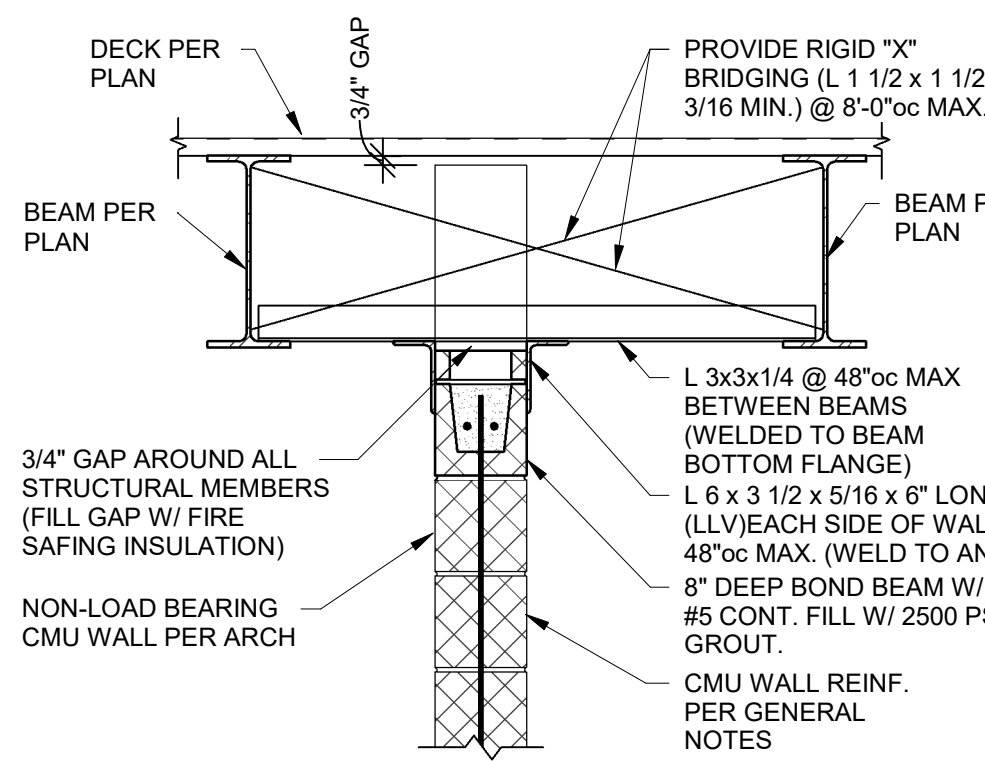
TYPICAL MASONRY COLUMN

E SECTION
1 1/2" = 1'-0"



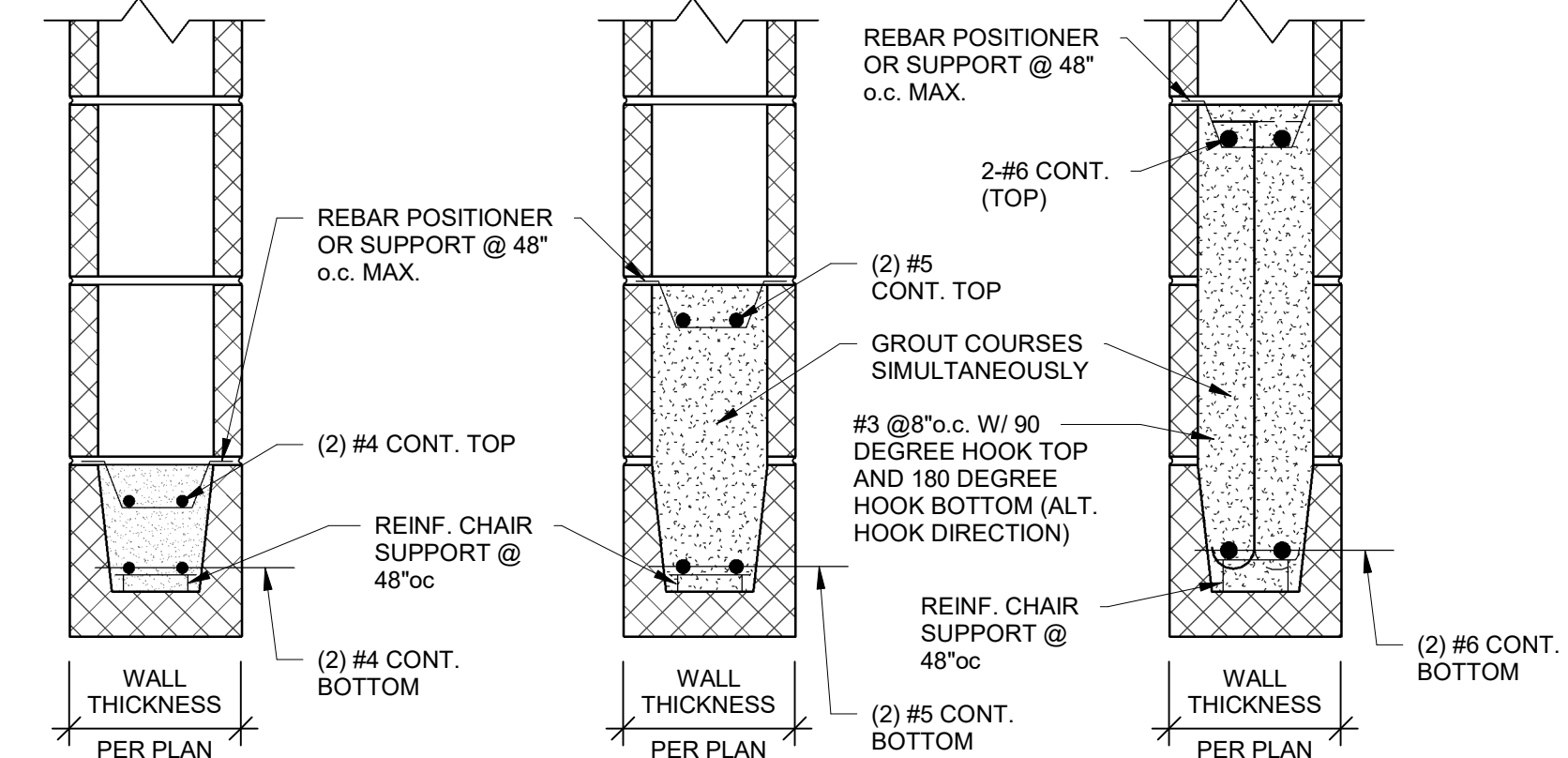
TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK
(REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

2 SECTION
3/4" = 1'-0"



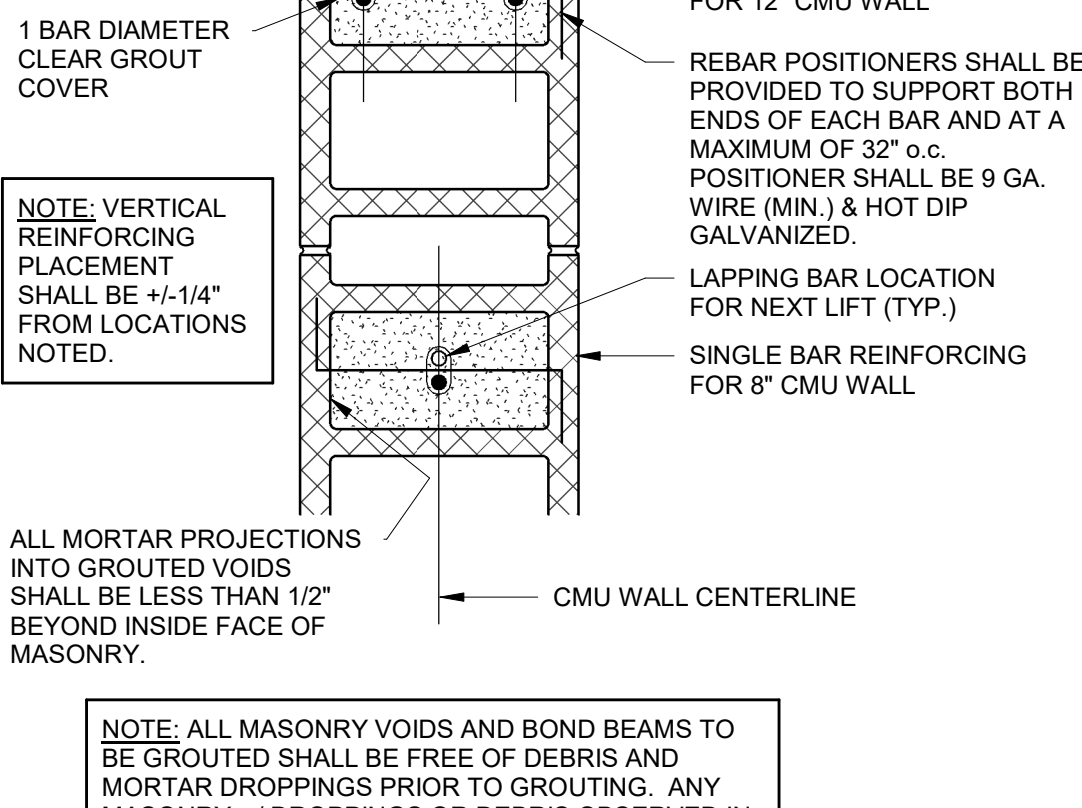
TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING CMU WALLS THAT EXTEND TO DECK
(REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

C SECTION
1 1/2" = 1'-0"



TYPICAL LINTELS AT ALL CMU WALLS (U.N.O.)

B SECTION
1 1/2" = 1'-0"



TYPICAL REBAR POSITIONING DETAIL

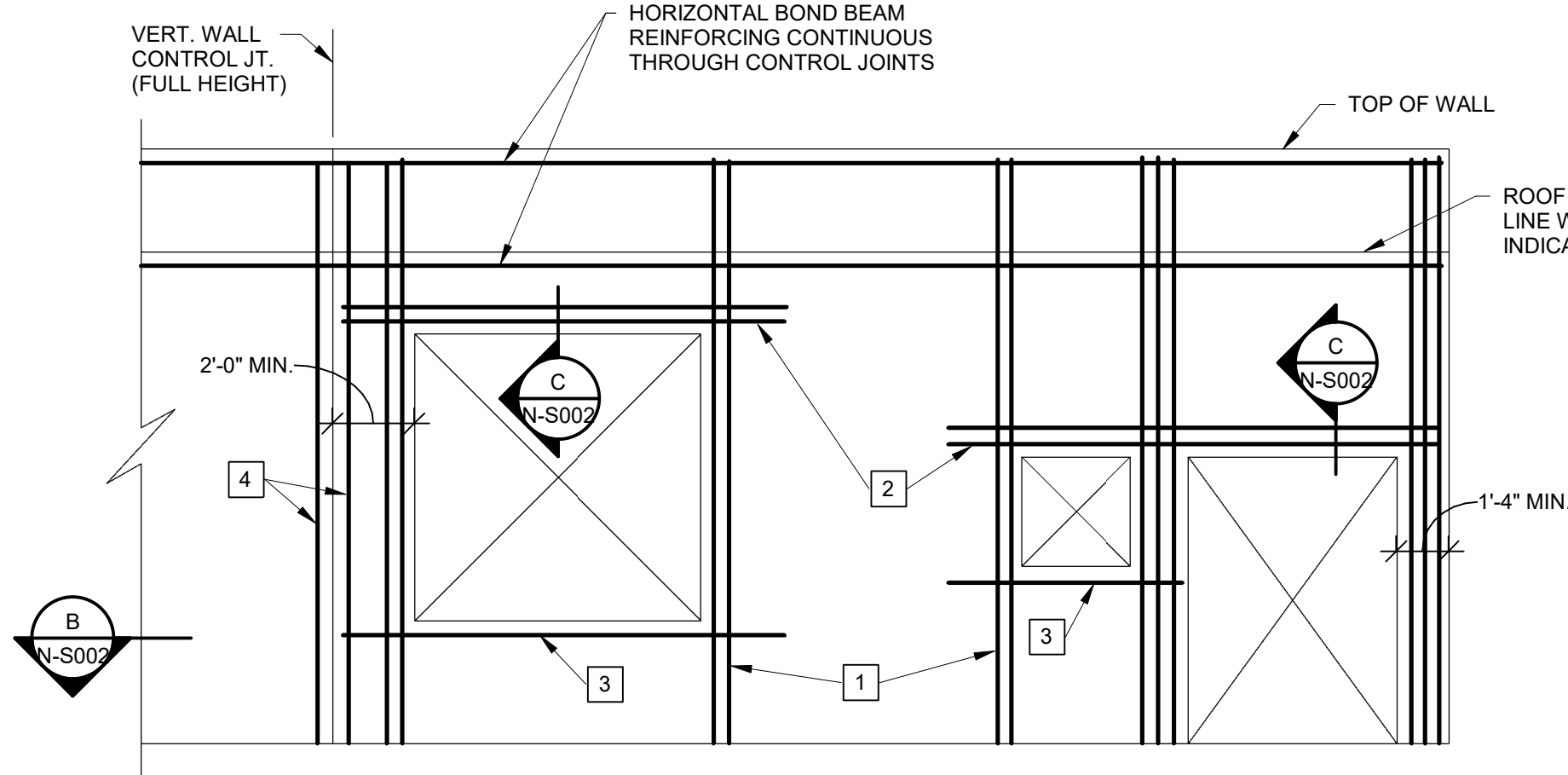
NOTE: ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.

NOTE: VERTICAL REINFORCING PLACEMENT SHALL BE +/- 1/4" FROM LOCATIONS NOTED.

NOTE: REINFORCING SHALL BE PLACED IN POSITIONERS PRIOR TO GROUTING.

ADJUSTMENTS TO DIMENSIONS TO PROVIDE DEFINED CLEAR GROUT COVER ARE ACCEPTABLE, BUT ALL ADJUSTMENTS SHALL BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION AND SHALL NOT EXCEED 1/4".

TYPICAL CMU WALL REINFORCING AT OPENINGS



LEGEND:

- FULL HEIGHT VERTICAL BARS AS JAMB REINFORCING IN FIRST 2 CELLS ADJACENT TO OPENING. REINFORCE EACH CELL WITH SIZE & QUANTITY OF BAR TO MATCH WALL REINFORCING (1 BAR TYPICAL IN 8" WALLS AND 2 BARS TYPICAL IN 12" WALLS).
- LINTEL REINFORCING PER SECTION C. EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
- 2-#5 CONTINUOUS HORIZONTAL BARS AS SILL REINFORCING IN 8" COURSE BELOW OPENING (U.N.O.). EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
- FULL HEIGHT VERTICAL BARS PER MASONRY VERTICAL REINFORCING SCHEDULE LOCATED IN END CELL AT EACH SIDE OF VERTICAL WALL CONTROL JOINTS.

GENERAL CRITERIA: (SECTION A CONTINUED):

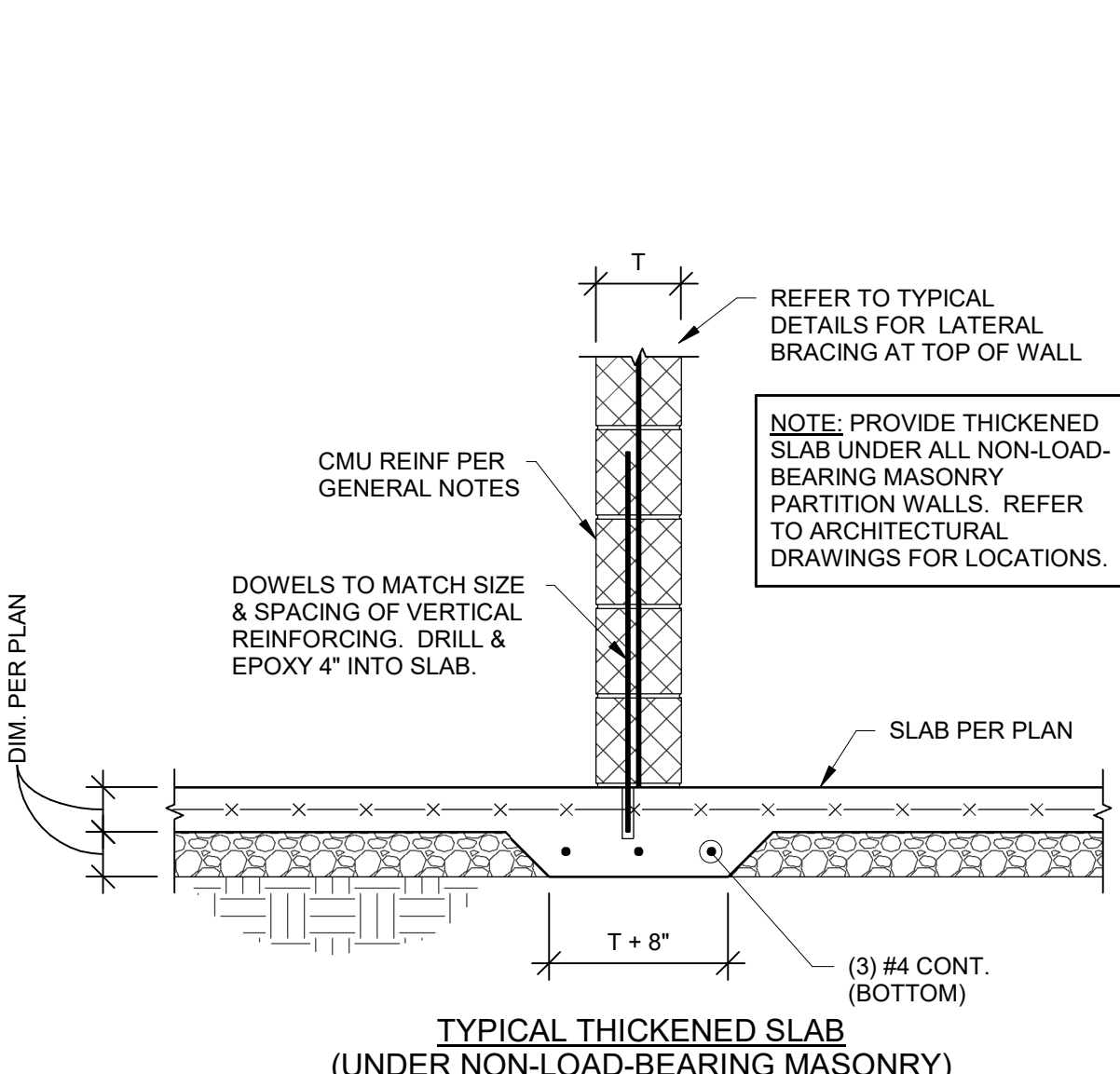
- VERTICAL REINFORCING BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.
- CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED ON REINFORCING STEEL SHOP DRAWING ELEVATIONS.
- VERTICAL CONTROL JOINTS IN MASONRY WALLS SHALL BE 3/8" WIDE, FULL HEIGHT OF WALL. JOINTS SHALL BE SPACED AT A MAXIMUM OF 24'-0" ON CENTER AND NOT LESS THAN 2'-0" FROM THE EDGE OF ANY OPENING. ALL HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS. ALL BOND BEAM HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL CONTROL JOINT LOCATIONS.

MASONRY REINFORCING SCHEDULE
FOR LOAD BEARING MASONRY (CMU) WALLS

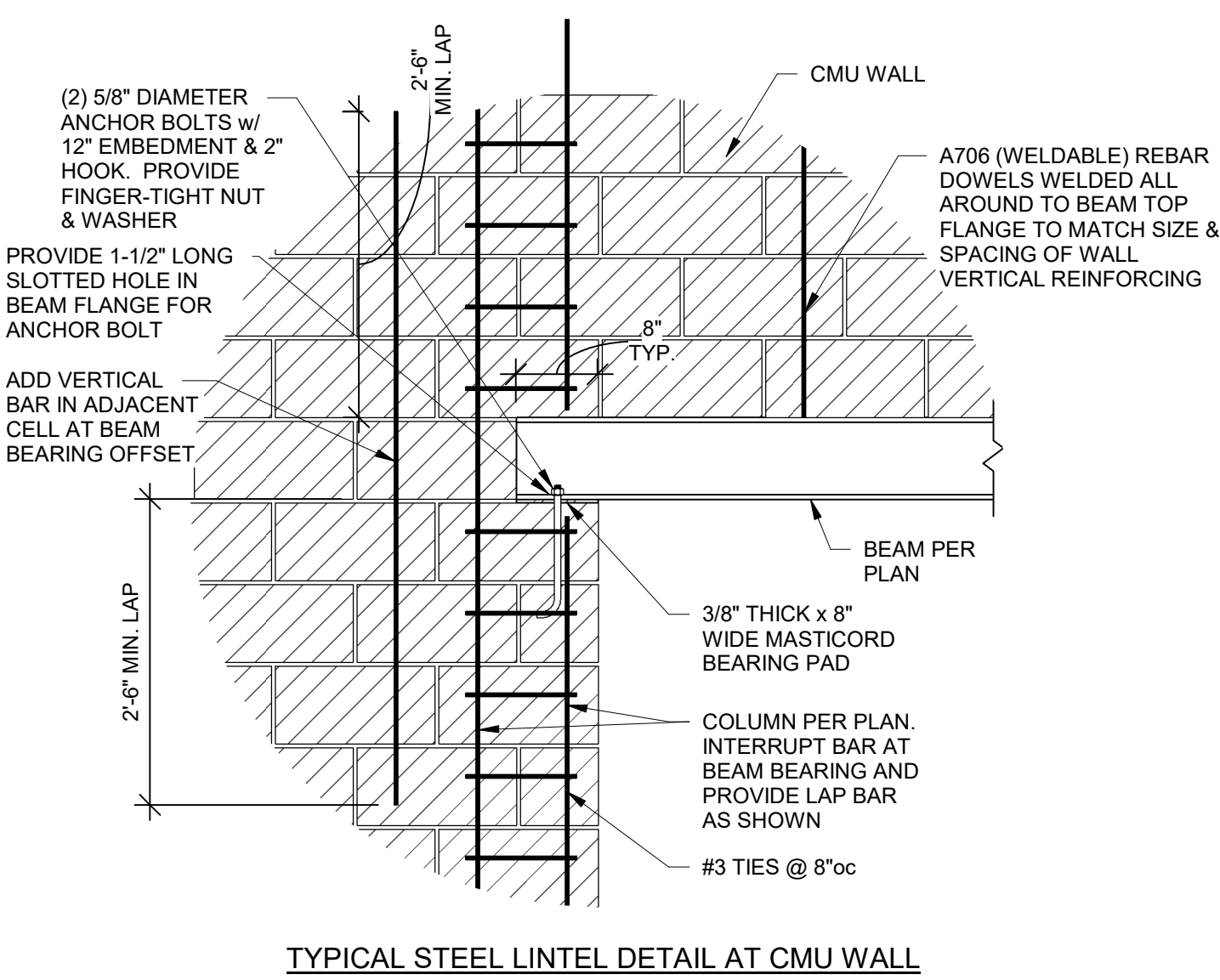
WALL THICKNESS	LOCATION	VERTICAL REINF. (IN GROUTED CELLS)	HORIZ. REINF. (IN BOND BEAMS)
8"	ALL 8" WALLS (U.N.O.)	1-#5 @ 32"oc	PER SECTIONS
12"	ALL 12" WALLS (U.N.O.)	2-#5 @ 48"oc	RE: NOTE 3
8"	WALL PER SECTION 3/N-S141	1-#6 @ 24"oc	PER SECTIONS

- NOTES:
- IN ADDITION TO SPACING SHOWN IN SCHEDULE, VERTICAL REINFORCING SHALL BE PROVIDED IN GROUTED CELLS AT THE FOLLOWING LOCATIONS:
 - IN THE FIRST 2 CELLS ADJACENT TO EACH OPENING
 - IN THE END CELLS ON EACH SIDE OF VERTICAL CONTROL JOINTS
 - IN THE END CELLS OF EACH LENGTH OF WALL
 - AT EACH CORNER OF WALLS
 - UNDER BEAM BEARING PER 3/N-S141
 - ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.
 - IN 12" CMU, PROVIDE BOND BEAMS W/ (2) #6 HORIZ. @ ALL FLOOR AND ROOF LEVELS AND @ MID-HEIGHT BETWEEN LEVELS.

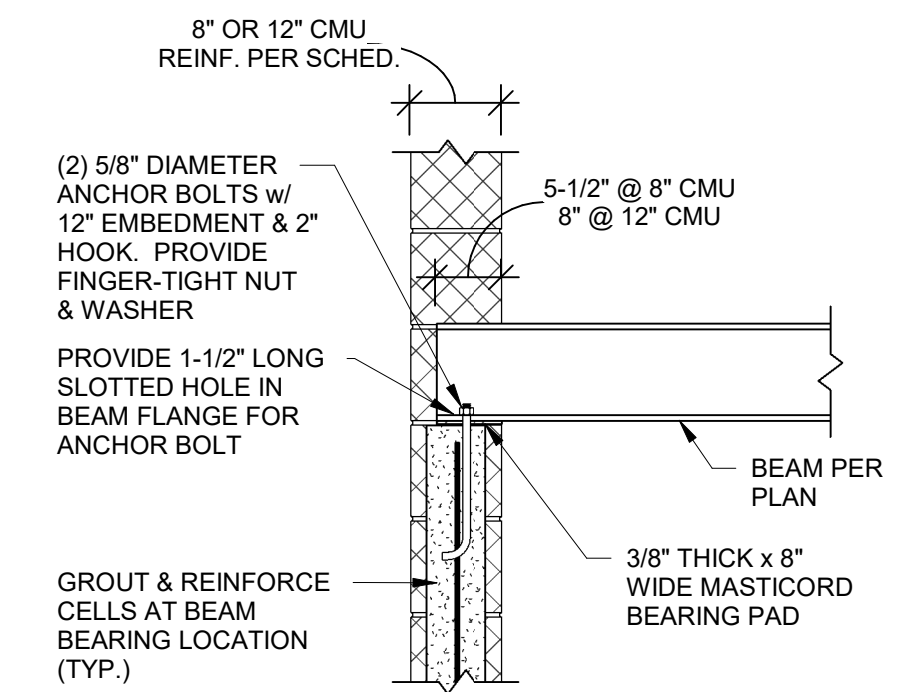
A CMU WALL ELEVATION
1 1/2" = 1'-0"



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

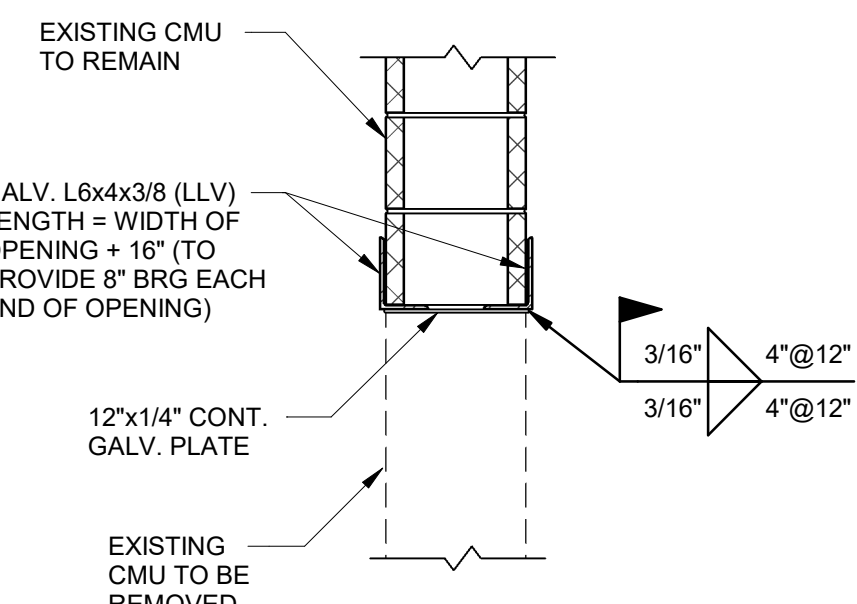


4 SECTION
3/4" = 1'-0"



TYPICAL WIDE FLANGE BEAM BEARING ON CMU (U.N.O.)

5 SECTION
3/4" = 1'-0"



6 DETAIL
3/4" = 1'-0"

- LINTEL INSTALLATION SEQUENCE:
- SCORE BED JOINT AT TOP OF NEW OPENING. EXTEND 8" PAST JAMB OF NEW OPENING EACH END. DO NOT OVERCUT JOINTS.
 - INSERT HORIZONTAL LEG OF 6x4 ANGLE INTO SCORED BED JOINT.
 - REPEAT STEPS 1 & 2 FOR OPPOSITE SIDE OF WALL.
 - REMOVE EXISTING WALL TO CREATE NEW OPENING.
 - WELD 1/4" PLATE TO BOTTOM OF 6x4 ANGLES.

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Jane Doe Date: MM/DD/YYYY
Architect License No. A-0000000

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0101
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CMU Details

N-S002

Bid Set

Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

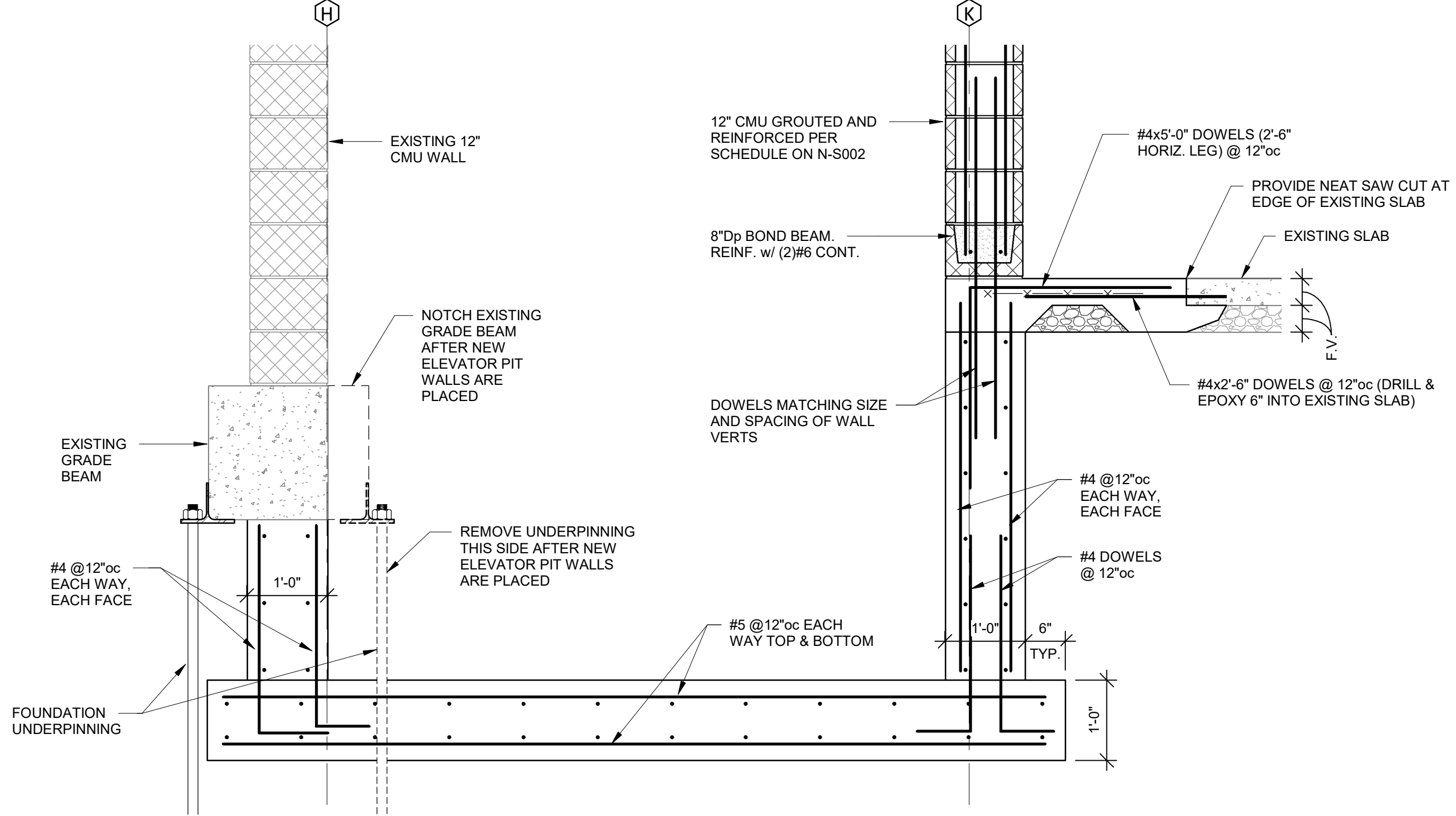
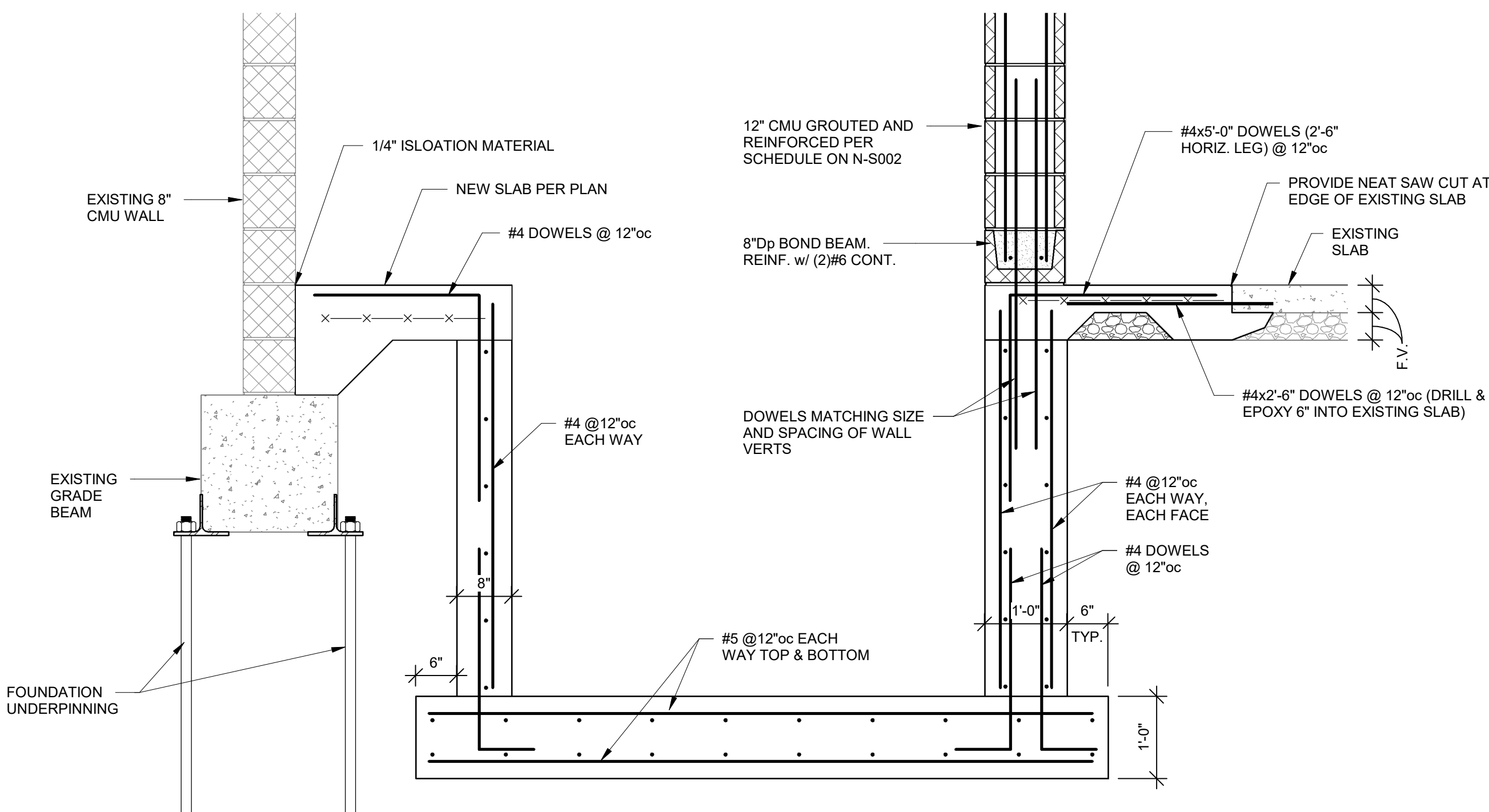
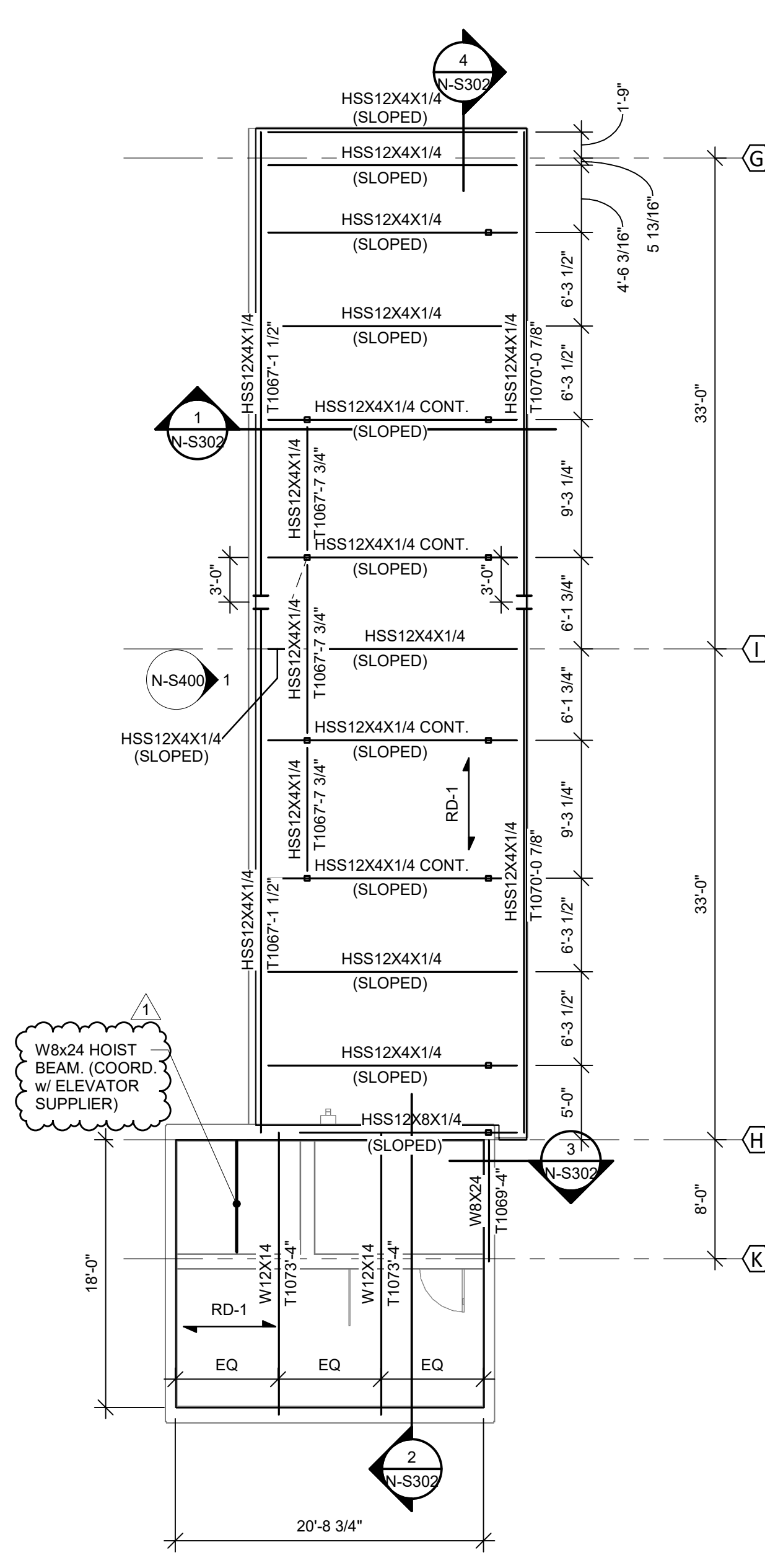
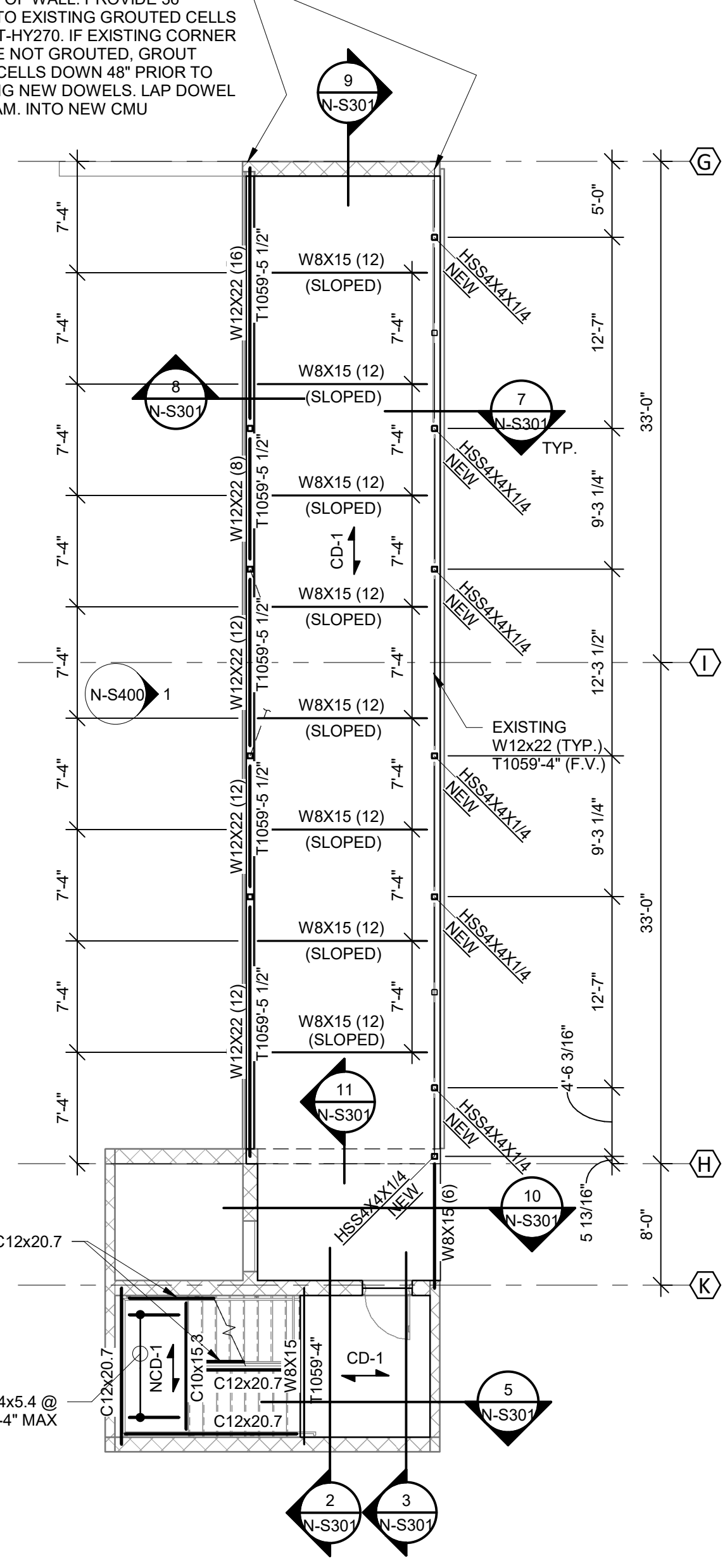
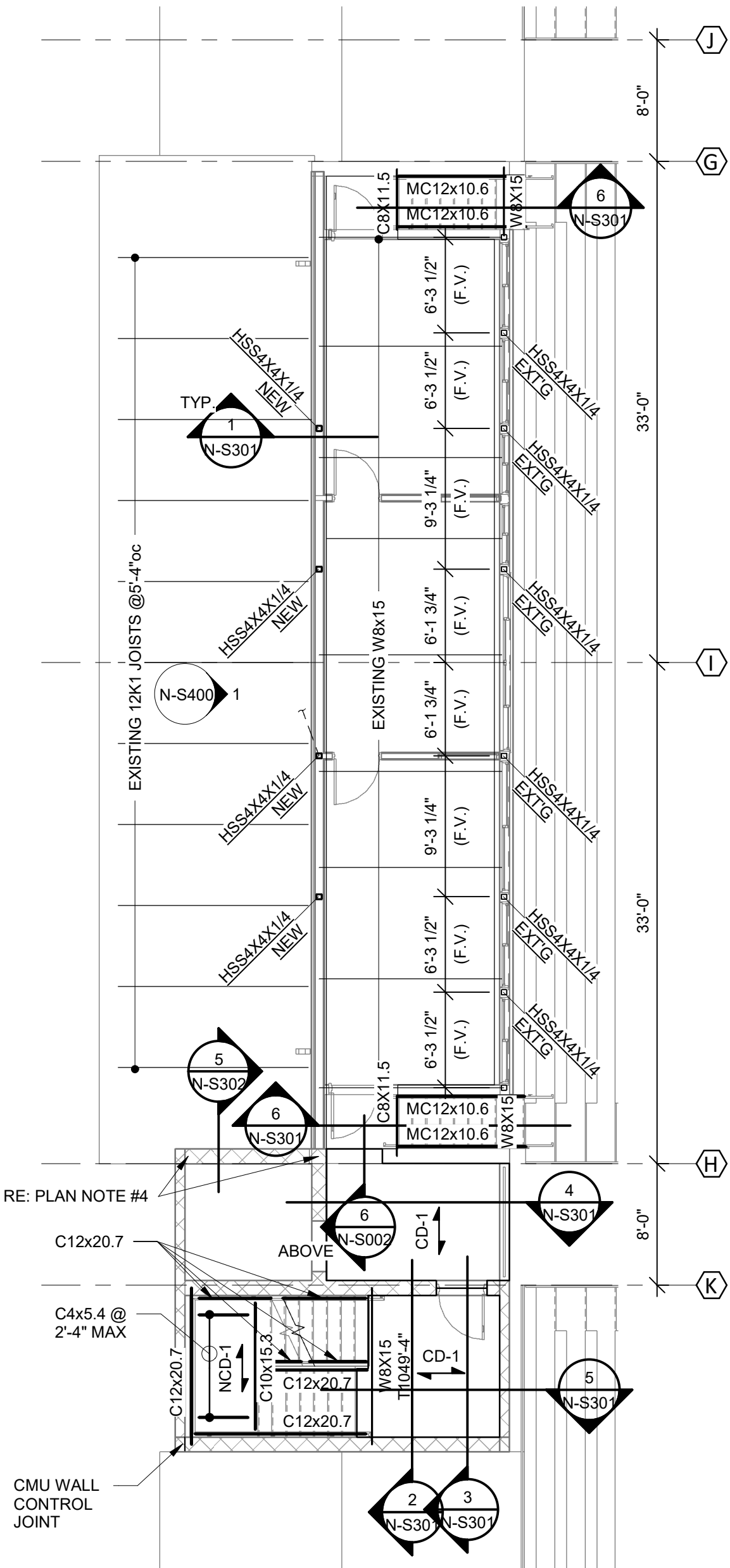
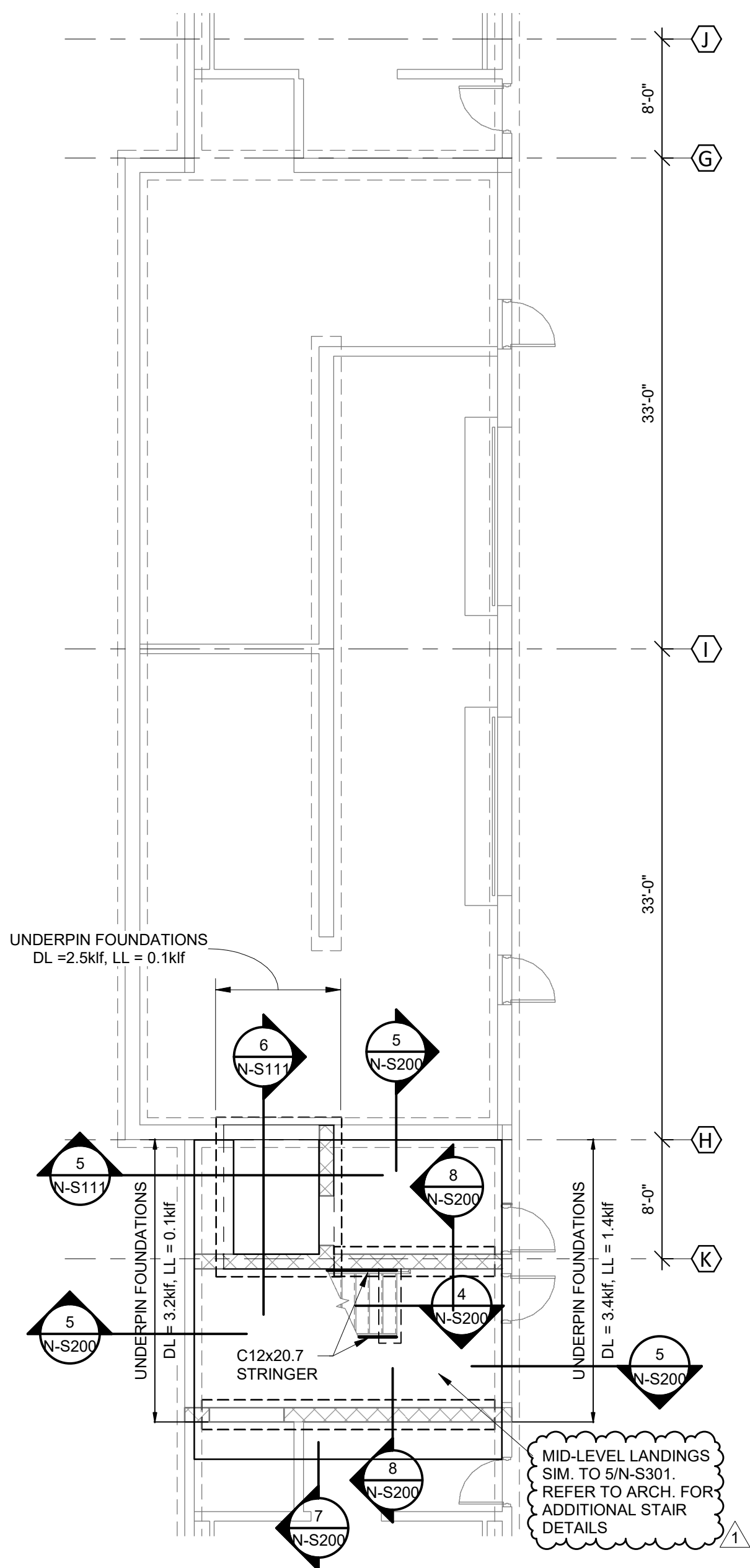
architect:
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816.931.6655 voice
www.gould-evans.com

structural engineer:
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816.331.4144

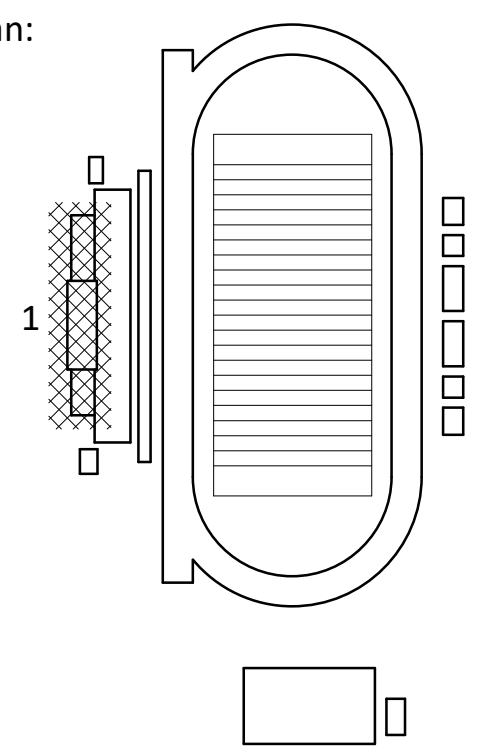
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913.485.0318

mechanical/electrical engineer:
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Lenexa, KS 66214
816.742.5000

DRILL & EPOXY (2)#5 INTO LAST CELL,
EACH END OF WALL. PROVIDE 36"
EMBED INTO EXISTING GROUTED CELLS
w/ HILTI HIT-HY270. IF EXISTING CORNER
CELLS ARE NOT GROUTED, GROUT
EXISTING CELLS DOWN 48" PRIOR TO
EMBEDDING NEW DOWELS. LAP DOWEL
48 BAR DIAM. INTO NEW CMU.



Key Plan:



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Richard C. Crabtree Date: 09/28/2020
Engineer License No. E-027441

REVISIONS		
Number	DESCRIPTION	DATE
1		AD002

PROJECT NO: 0119-0101
DATE: September 28, 2020

Press Box Plans

N-S111

Bid Set

Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

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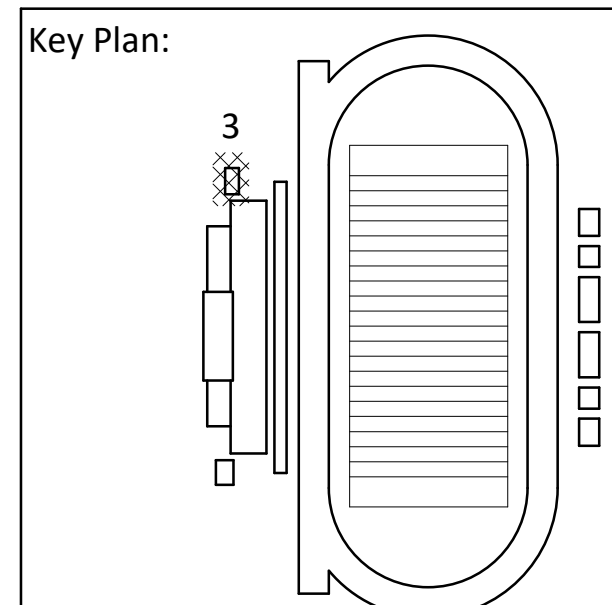
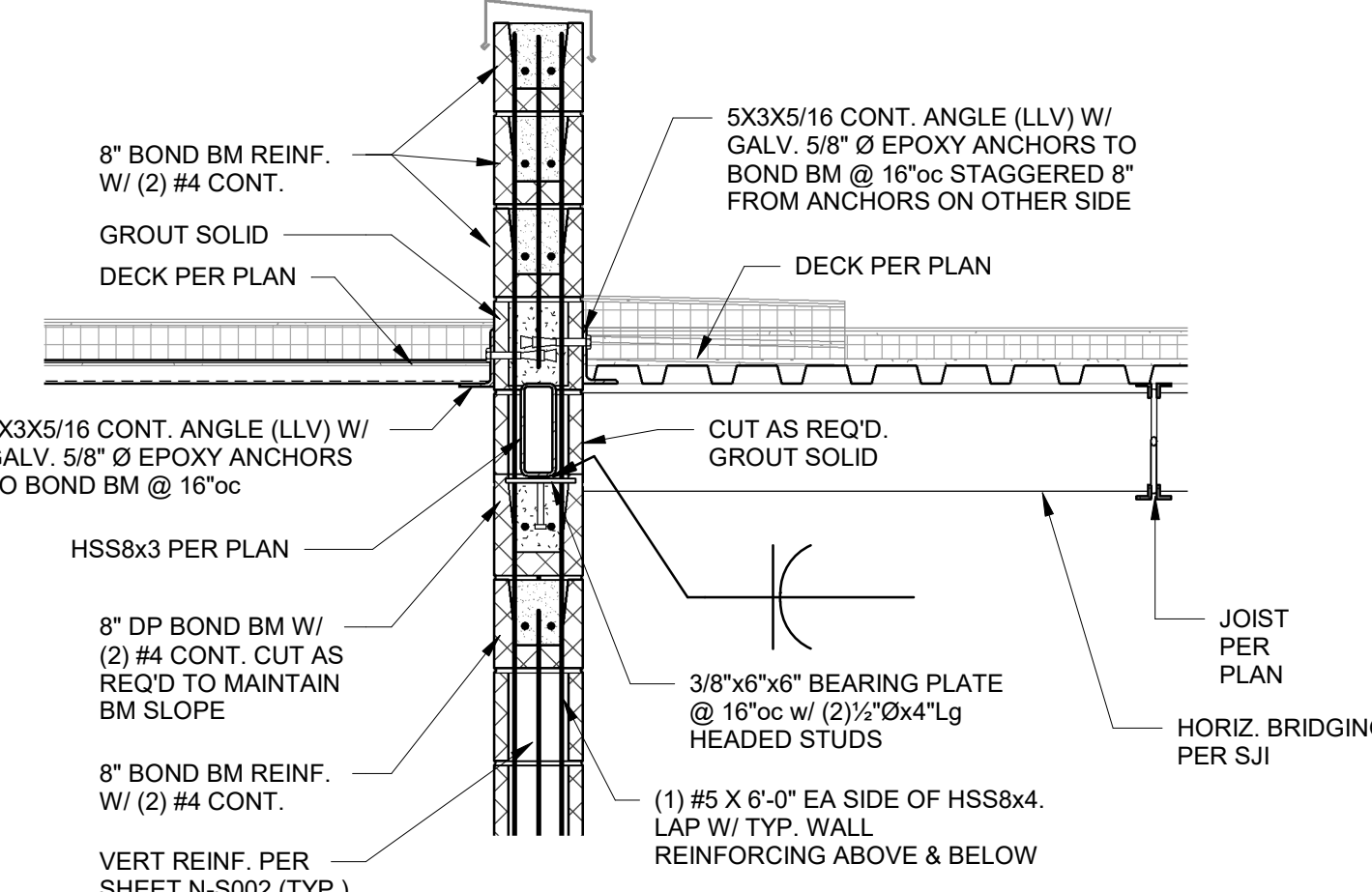
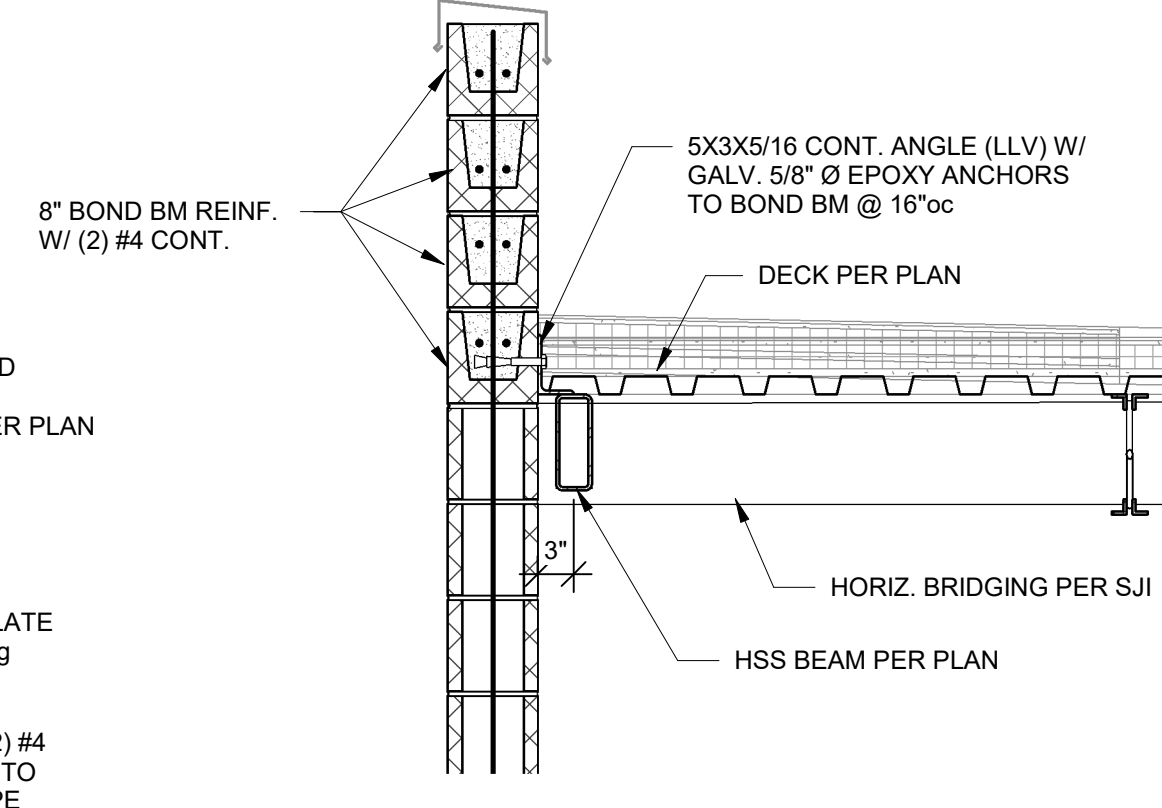
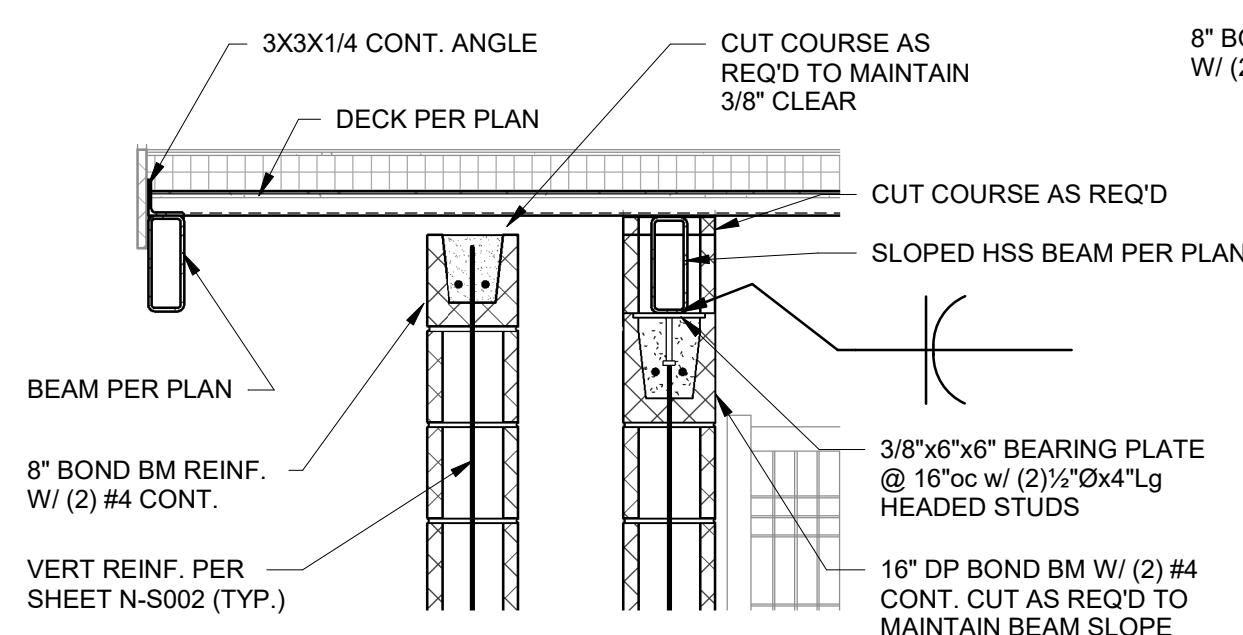
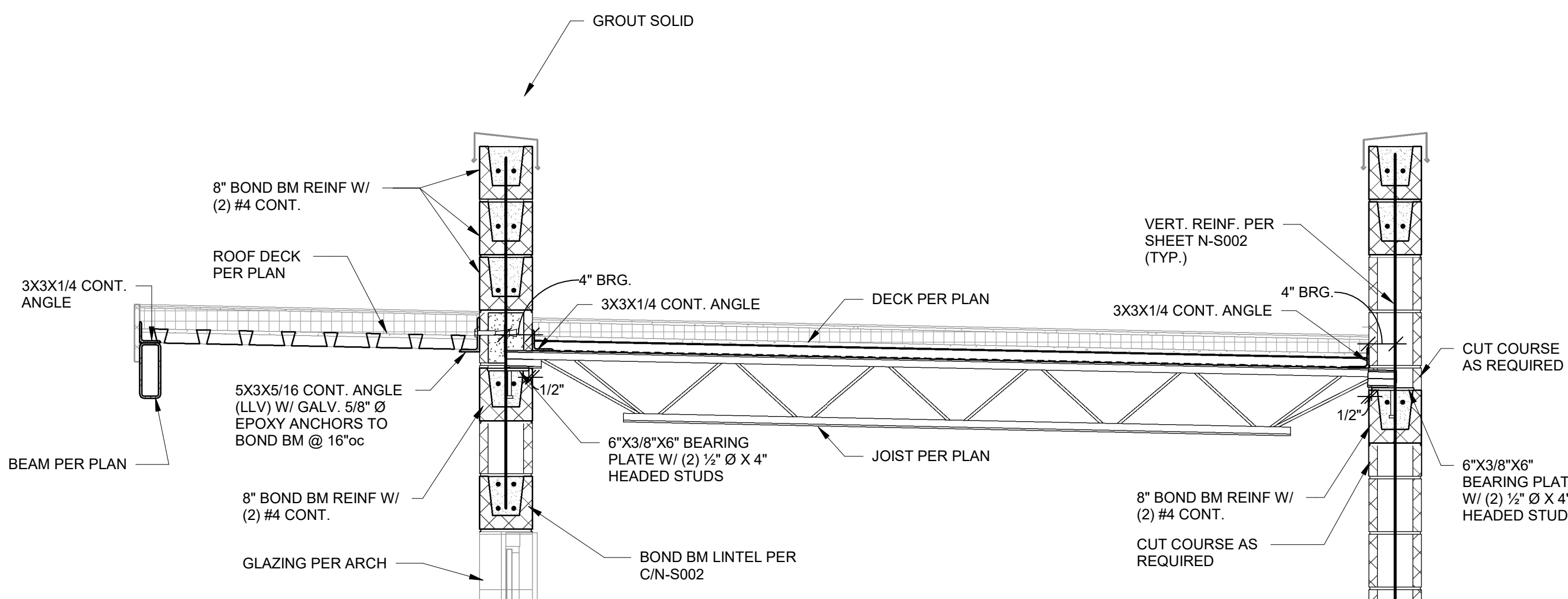
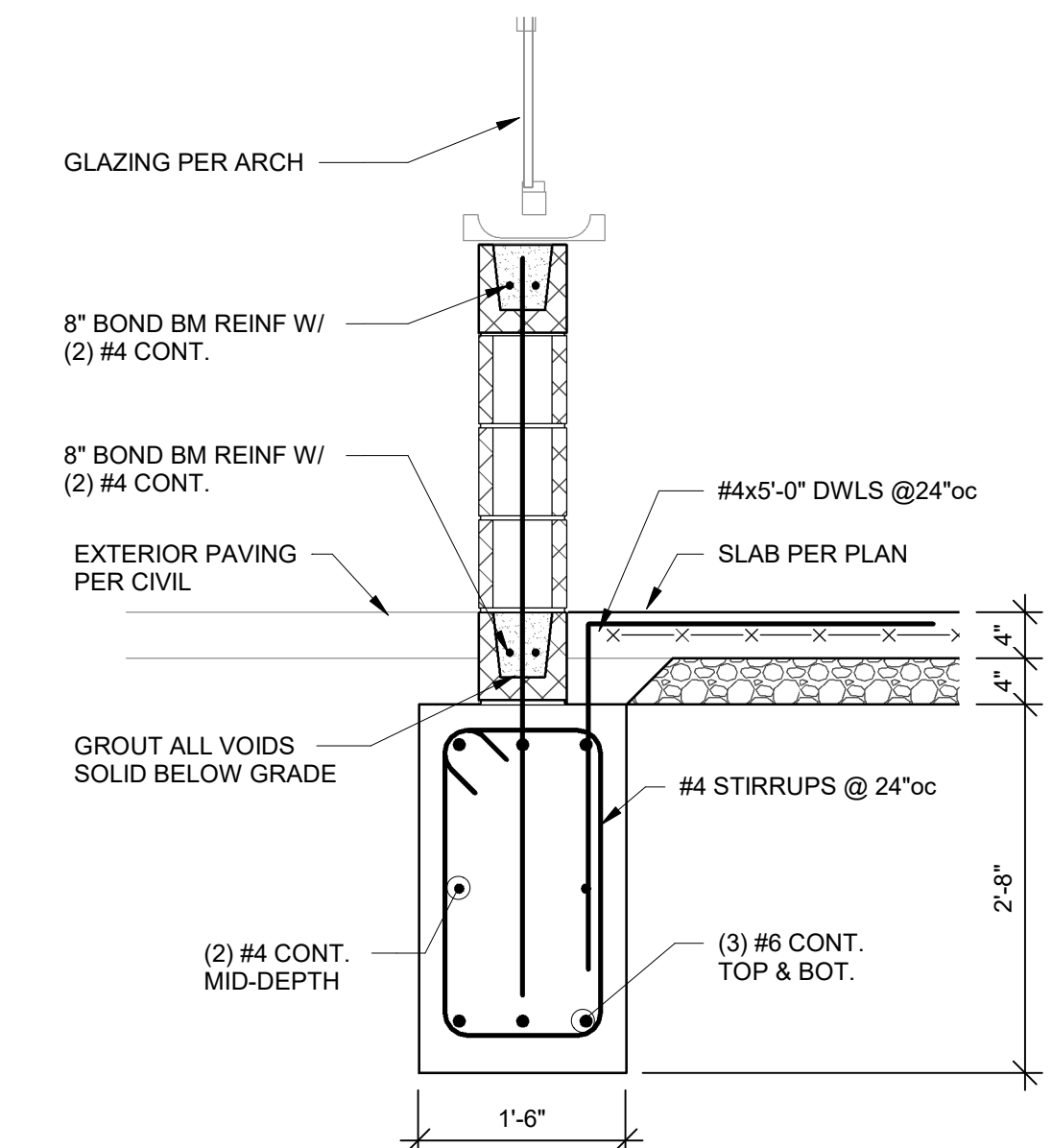
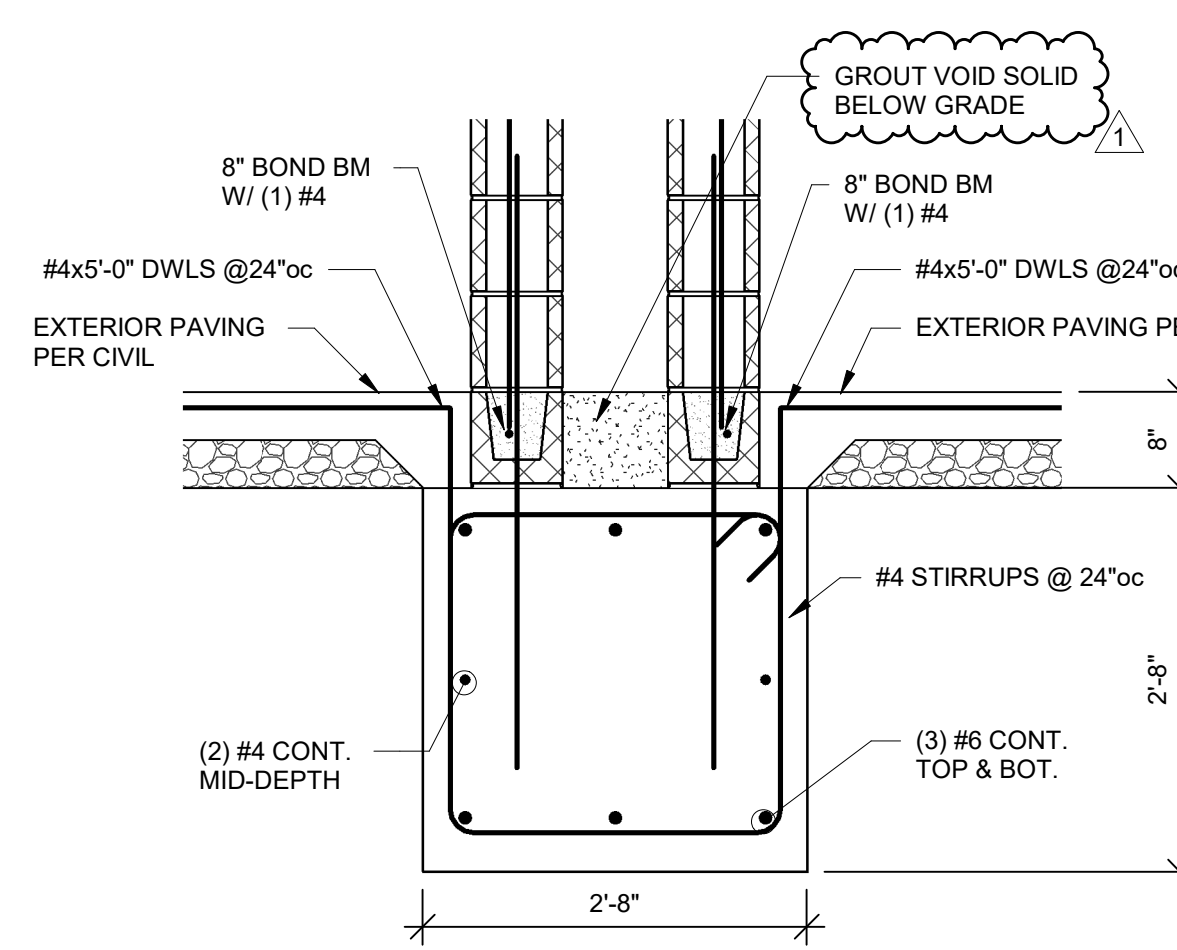
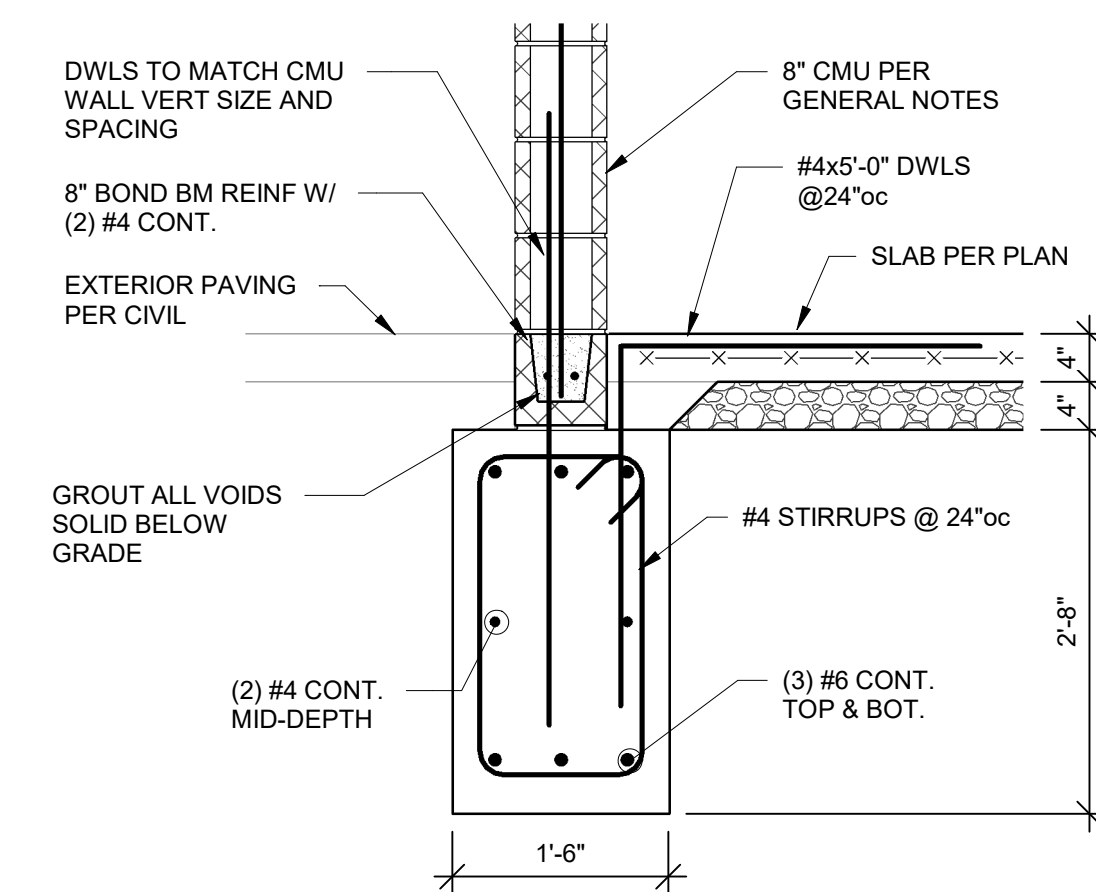
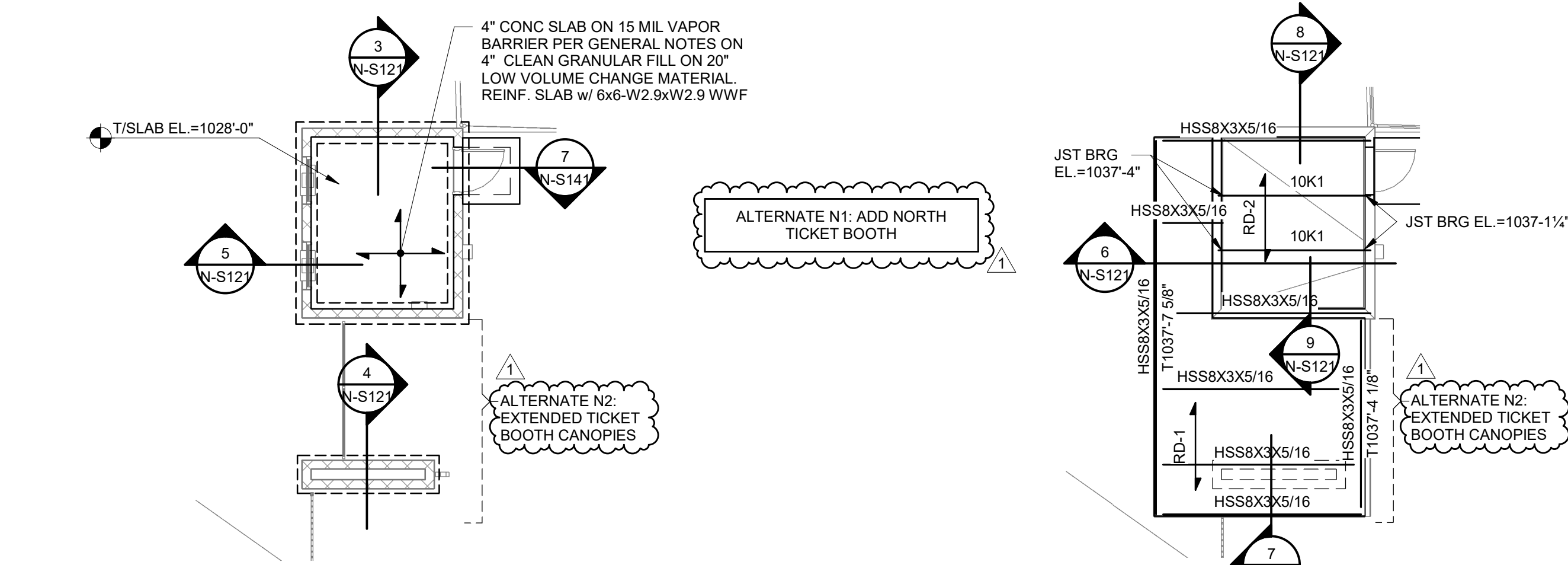
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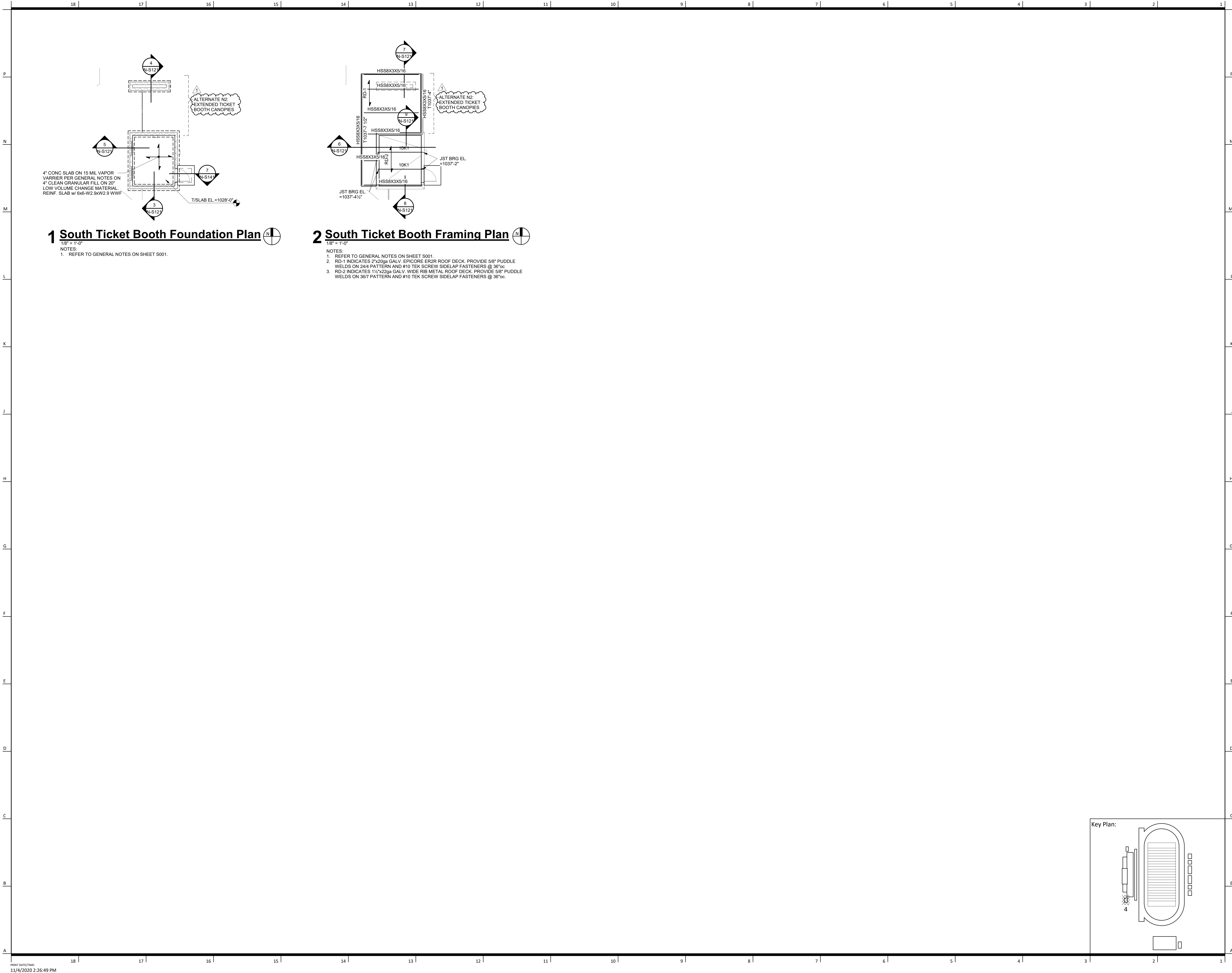
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North Ticket Booth
Plans

N-S121

Bid Set





Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
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Lee's Summit, MO 64086

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Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
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South Ticket Booth
Plans

N-S131

Bid Set

Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

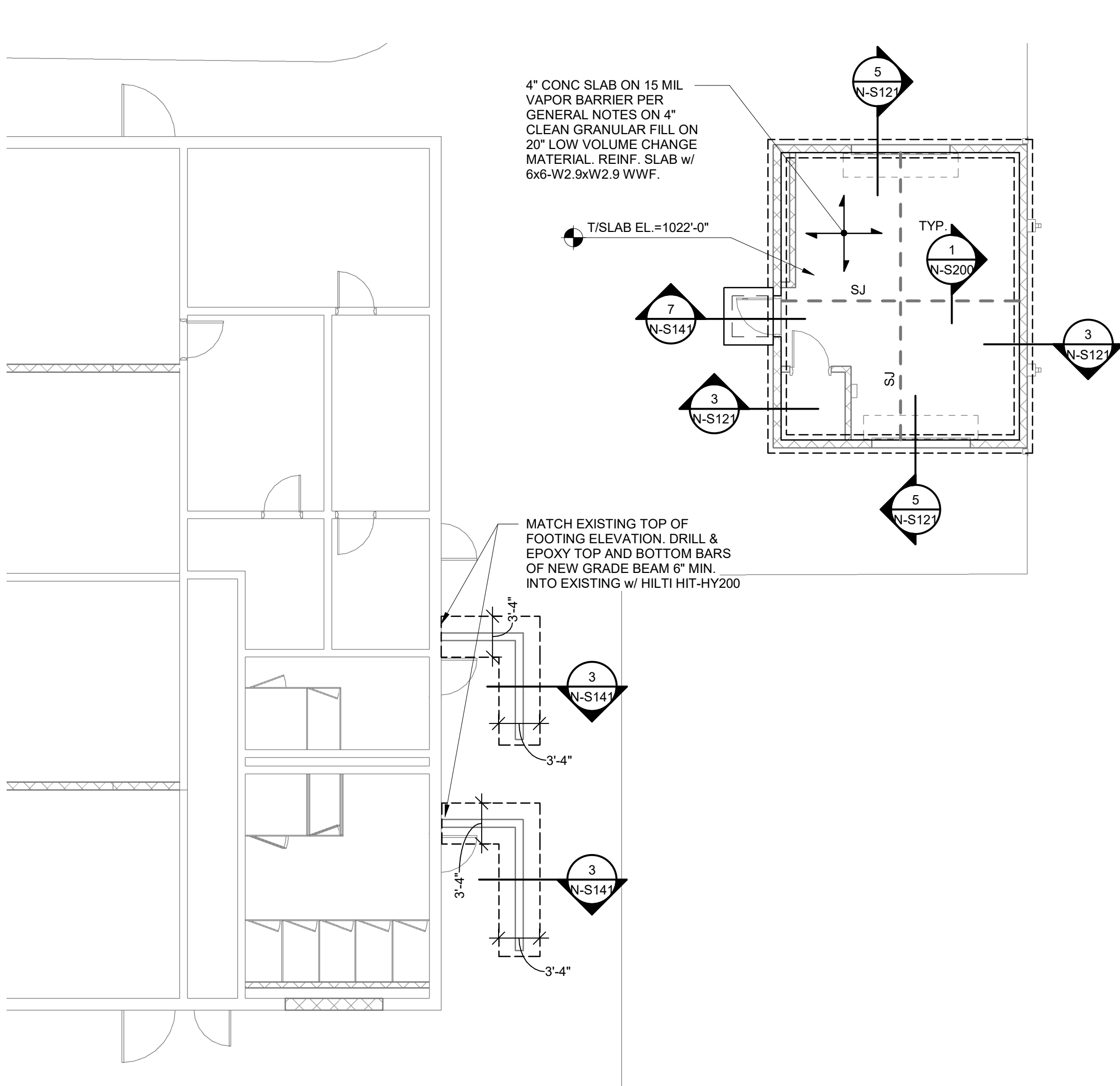
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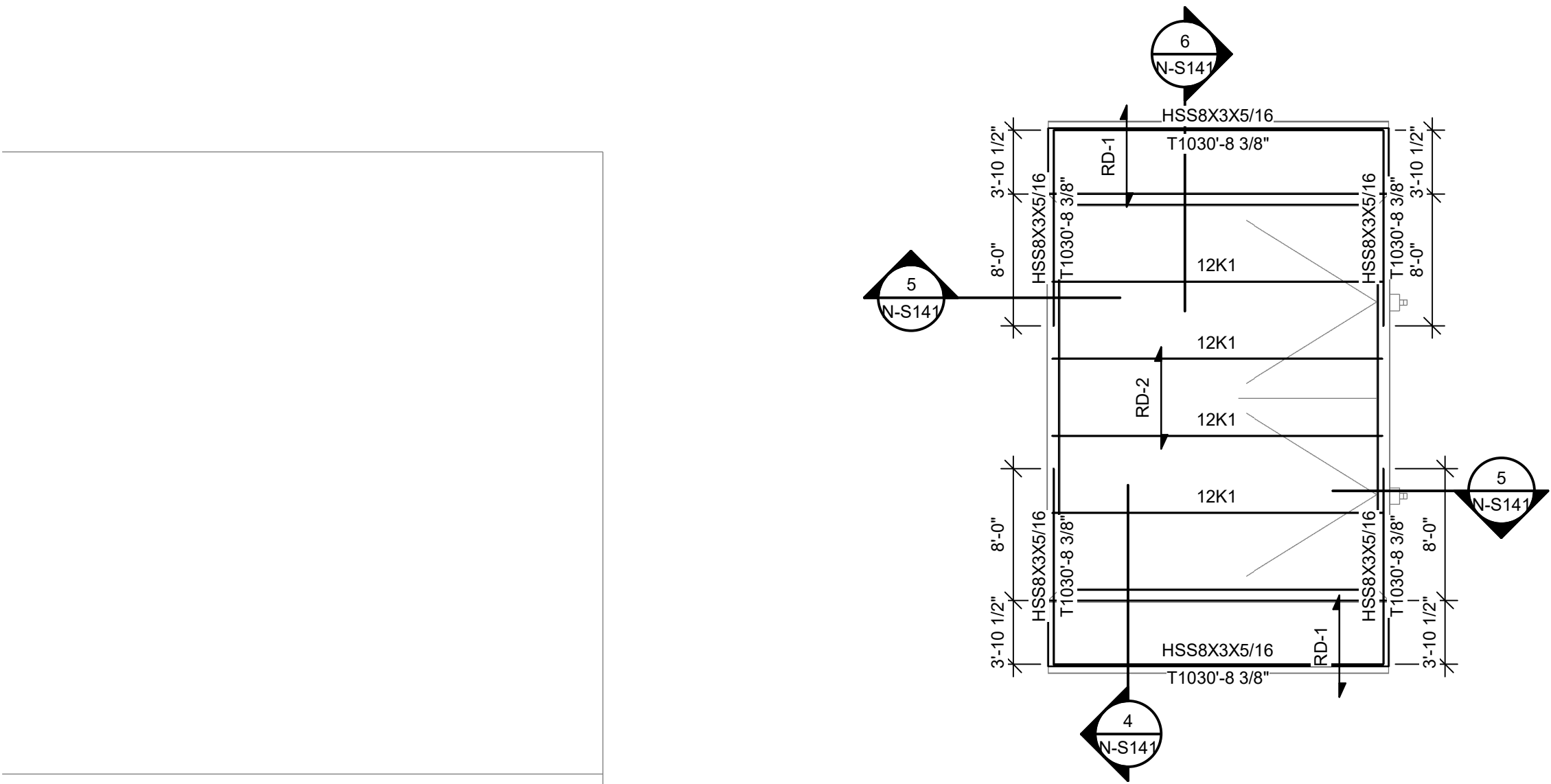
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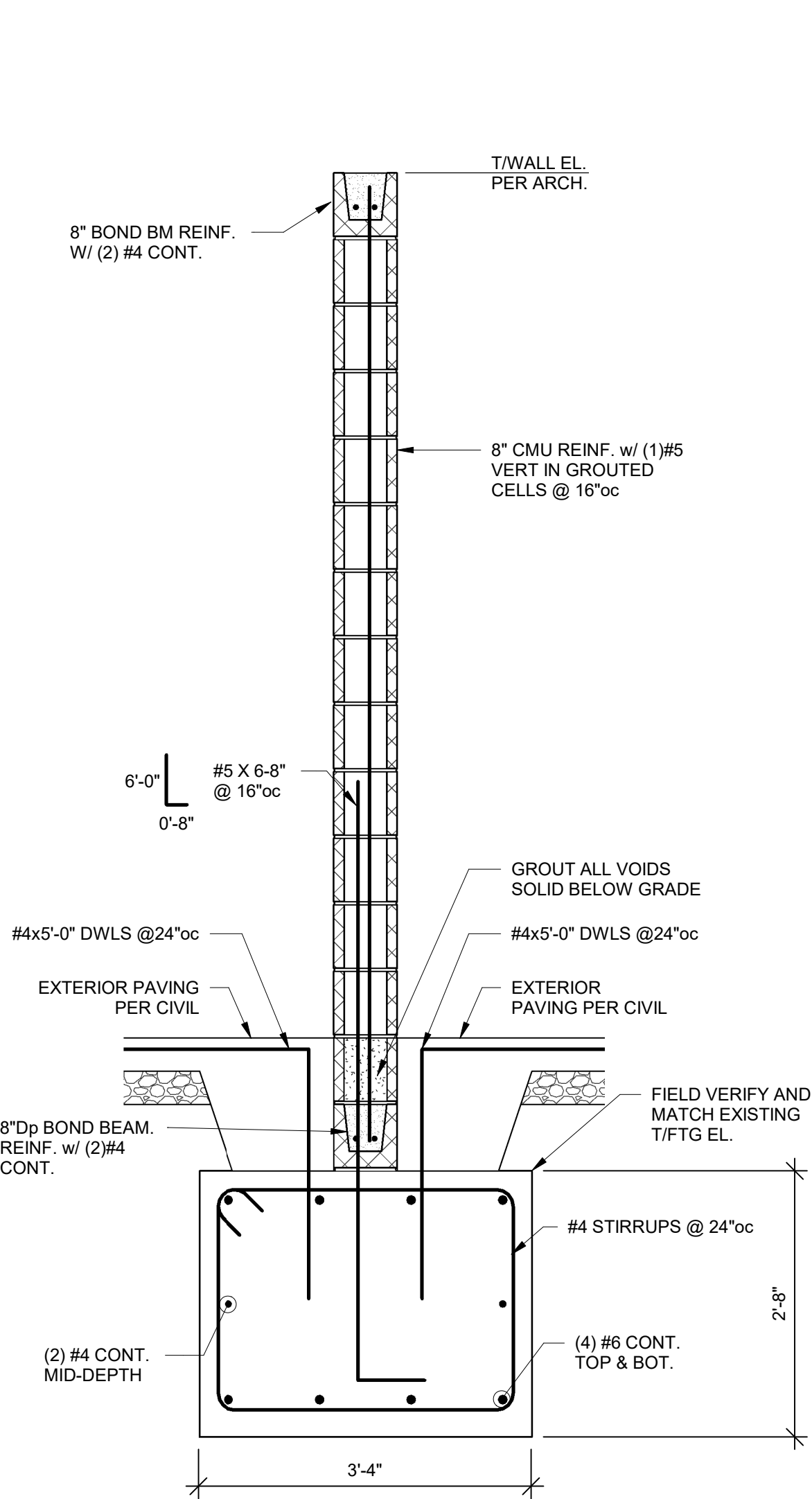
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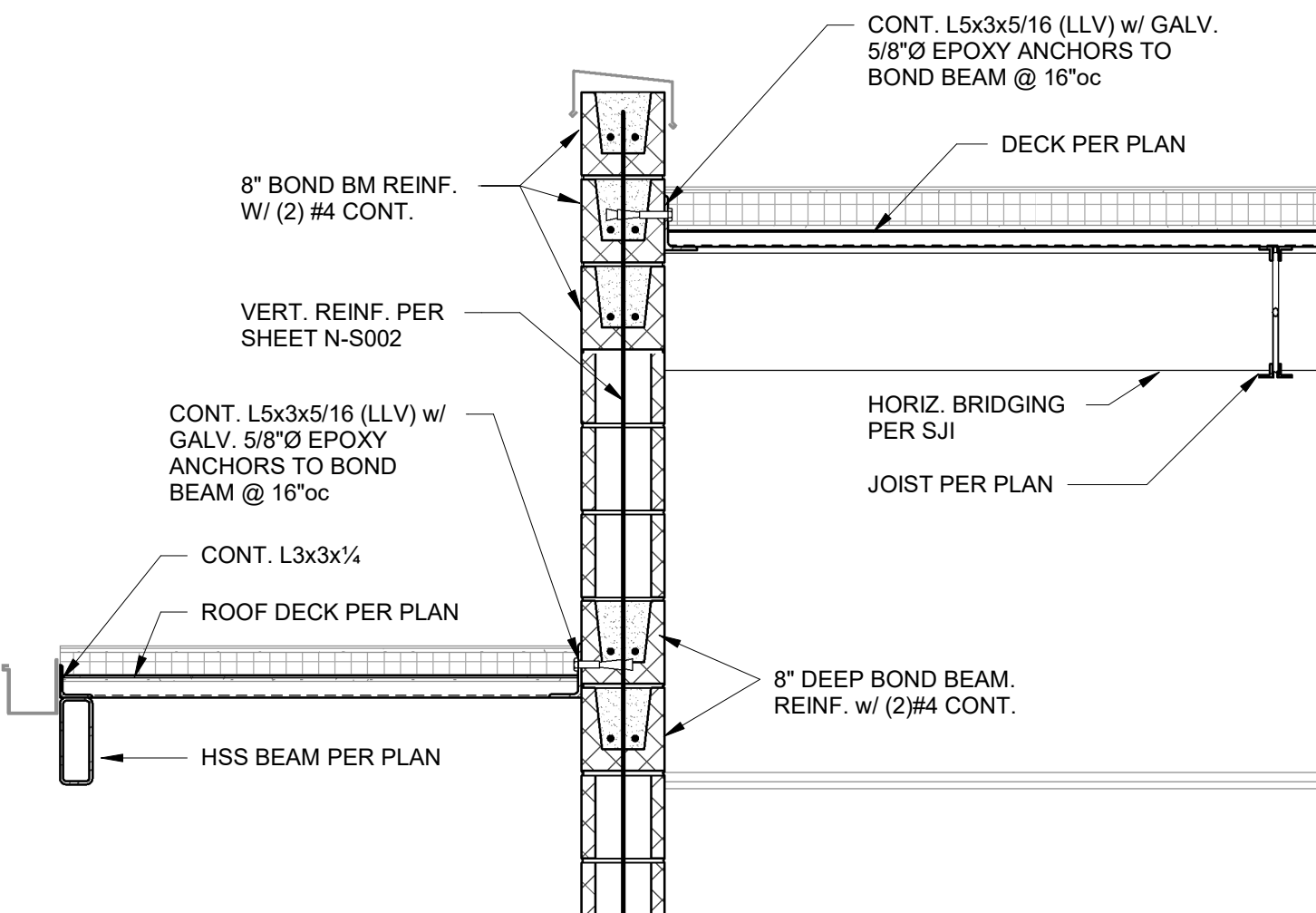
1 Visitor Restroom Foundation Plan
1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.



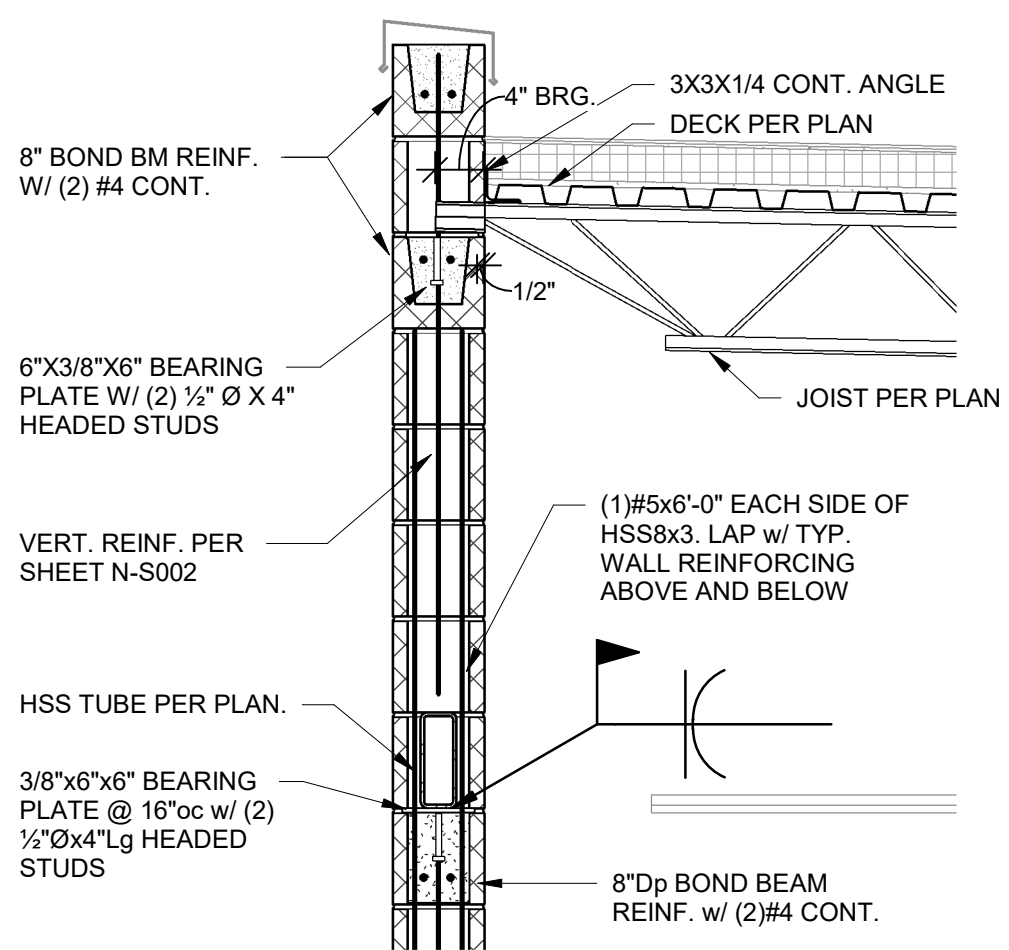
2 Visitor Restroom Framing Plan
1/8" = 1'-0"
NOTES:
1. REFER TO GENERAL NOTES ON SHEET S001.
2. RD-1 INDICATES 2"x20ga GALV. EPICORE ER2R ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 2x4 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @ 36"oc
3. RD-2 INDICATES 1 1/2"x22ga GALV. WIDE RIB METAL ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 3/8" PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @ 36"oc.



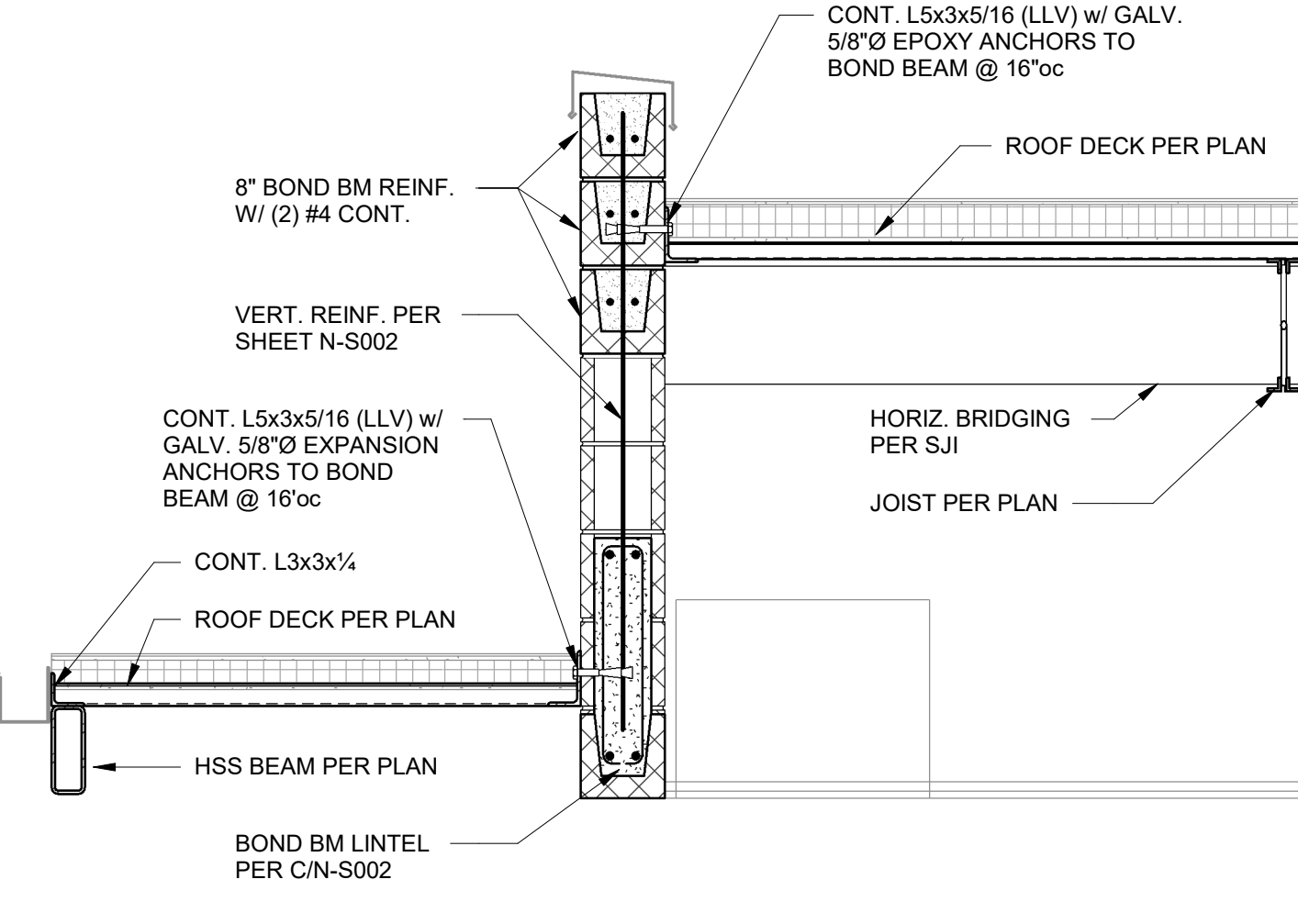
3 SECTION
3/4" = 1'-0"



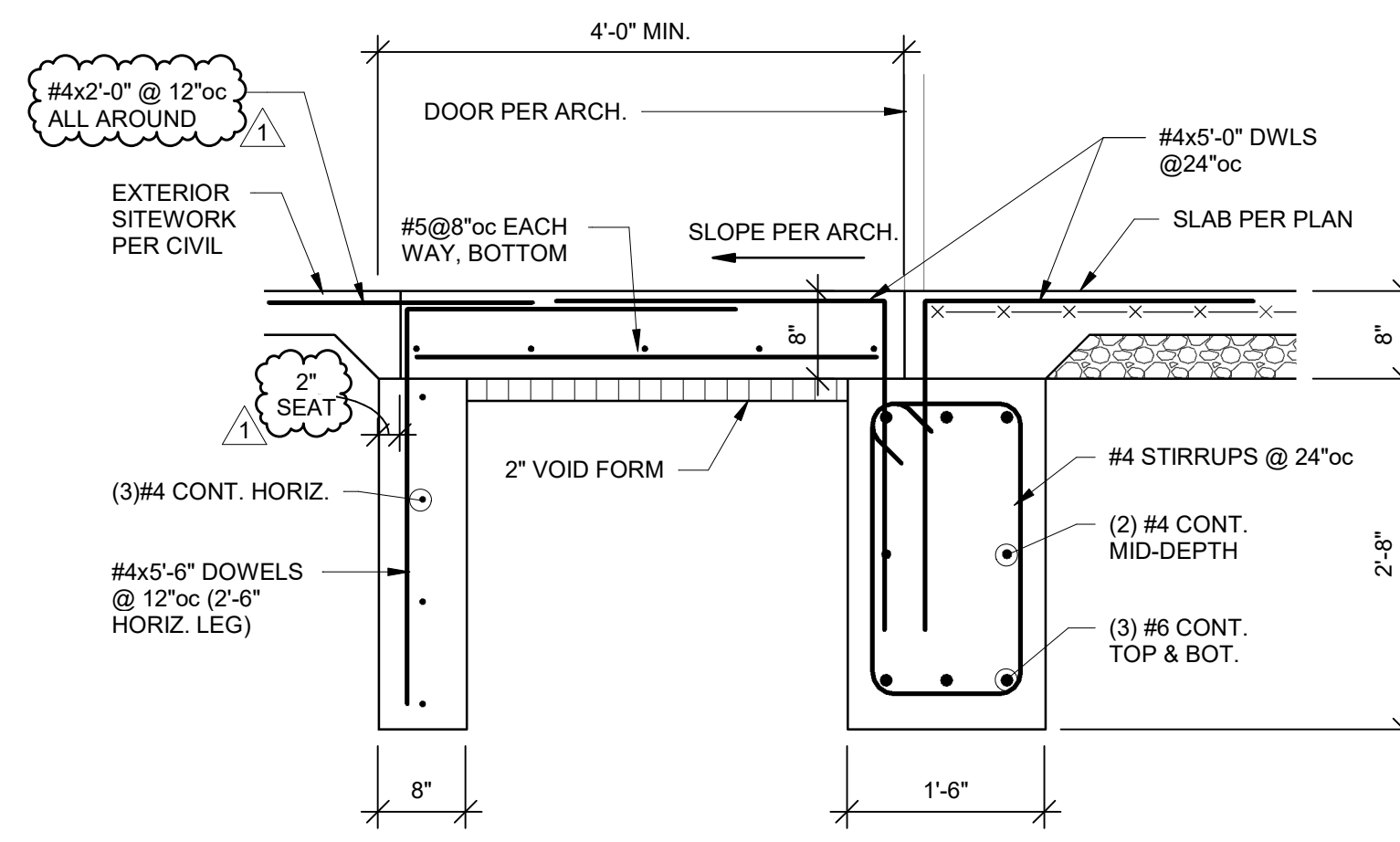
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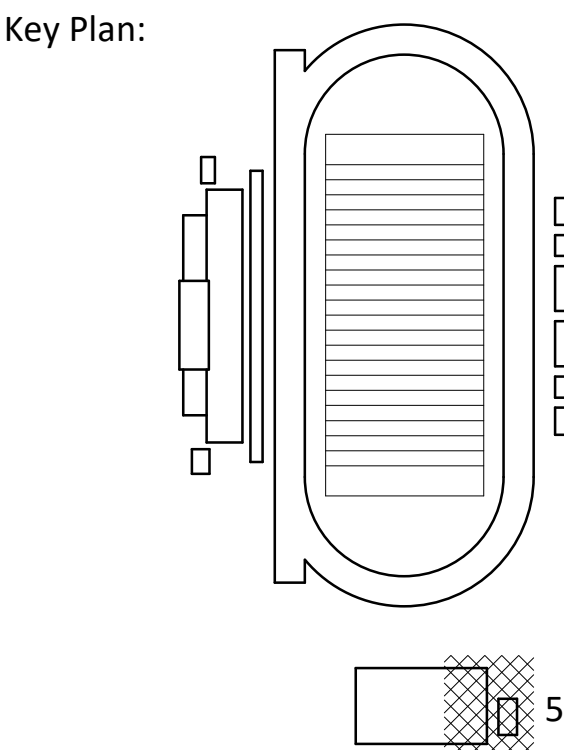
5 SECTION
3/4" = 1'-0"



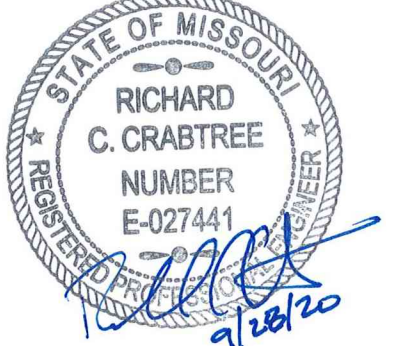
6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



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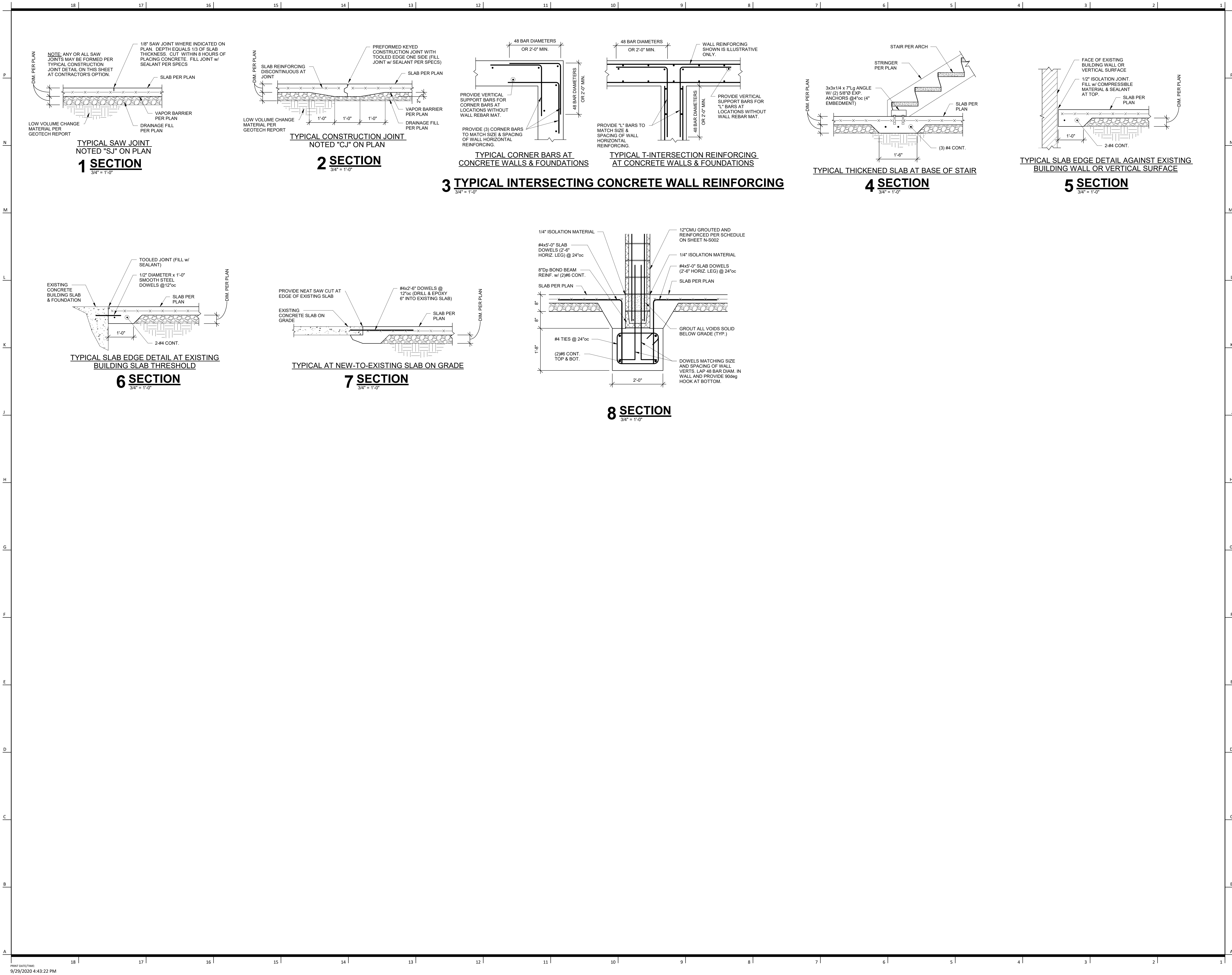
REVISIONS		
Number	DESCRIPTION	DATE
1		AD002

PROJECT NO: 0119-0101
DATE: September 28, 2020

Vistor Restroom Plans

N-S141

Bid Set



Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

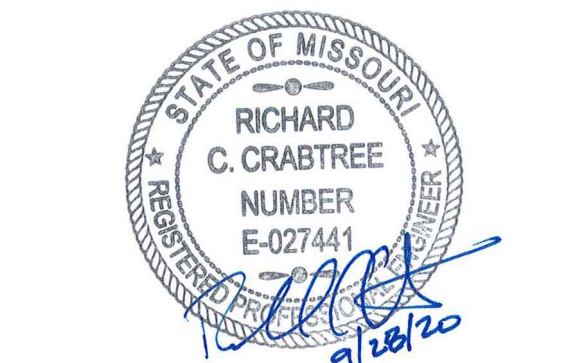
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14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

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Jane Doe Date: MM/DD/YYYY
Architect License No. A-00000000

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Foundation Sections

N-S200

Bid Set

**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gould-evans.com
structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.331.4144

civil engineer:
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REVISIONS

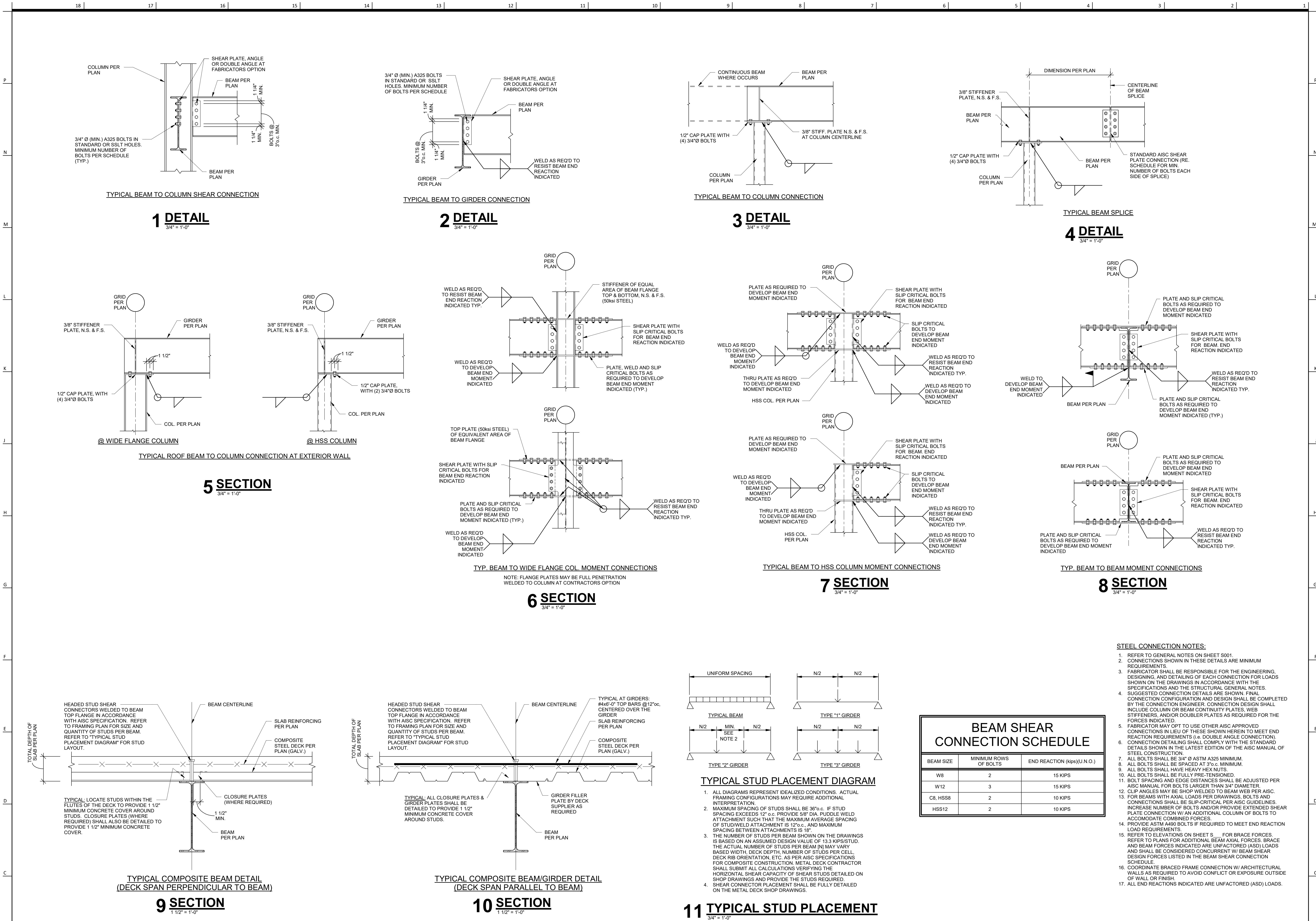
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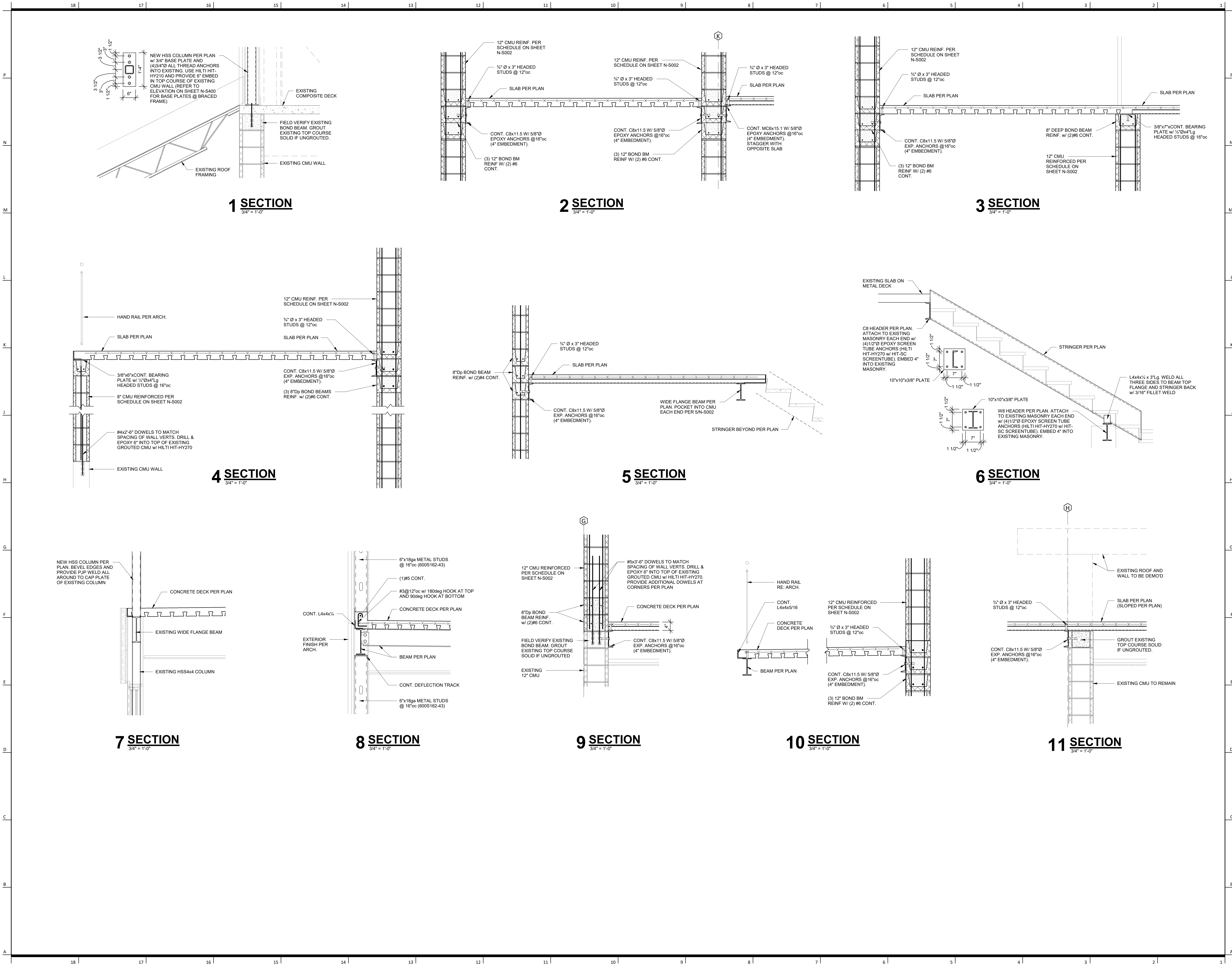
PROJECT NO: 0119-0101
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Framing Sections

N-S300

Bid Set





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**Lee's Summit R7 District
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STATE OF MISSOURI
C. CRABTREE
NUMBER
E-027441
DATE
MM/DD/2018

Architectural Corporation
Missouri License No.: 2018022991
Jane Doe
Date: MM/DD/2018
License No. A-00000000

REVISIONS		
Number	DESCRIPTION	DATE

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Framing Sections
N-S301
Bid Set

Lee's Summit R7 District
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Richard C. Crabtree Date: 09/28/2020
Engineer License No. E-027441

REVISIONS

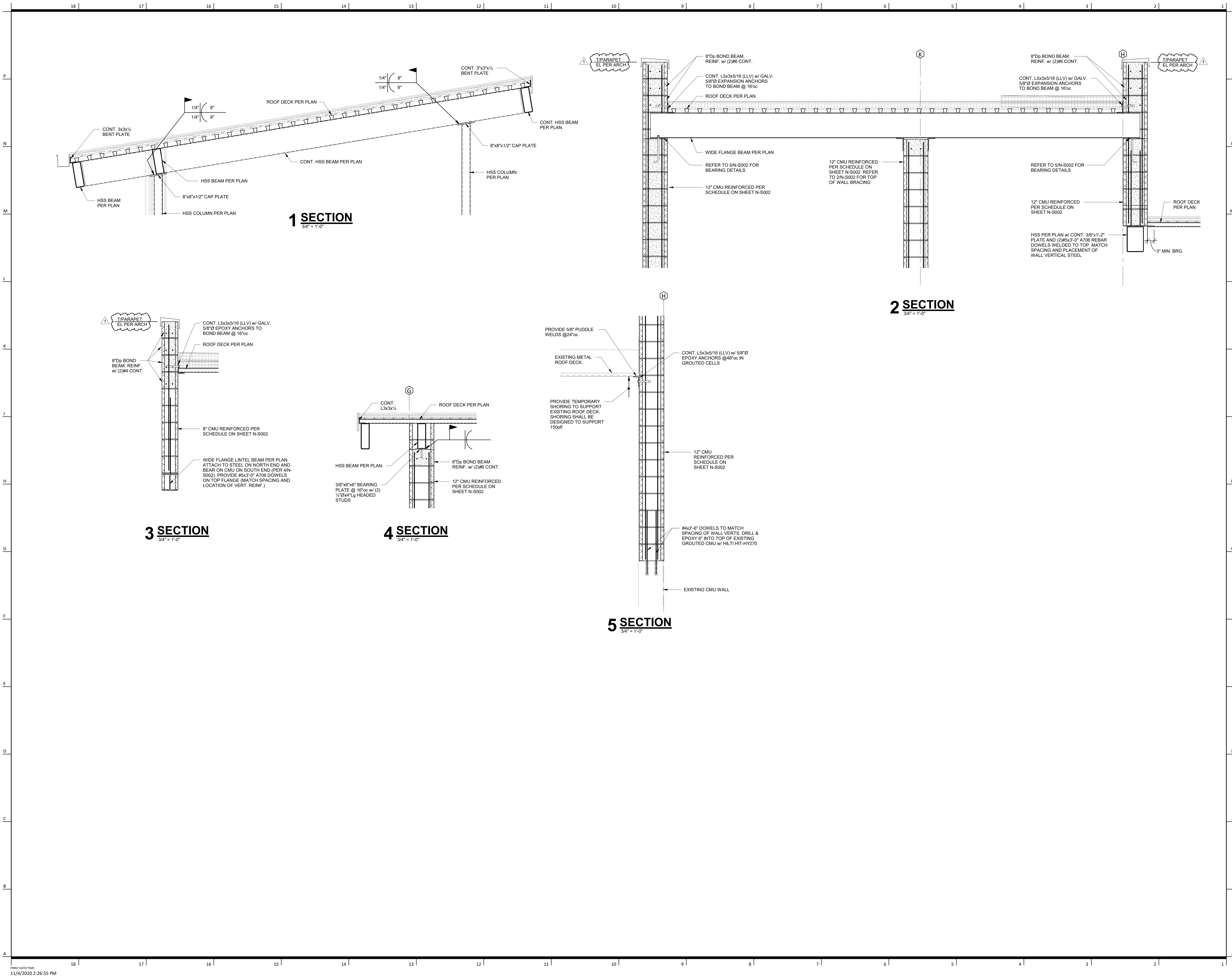
Number	DESCRIPTION	DATE
1		AD002

PROJECT NO: 0119-0101
DATE: September 28, 2020

Framing Sections

N-S302

Bid Set



Lee's Summit R7 District
Athletics Facilities

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Architect License No. A-00000000

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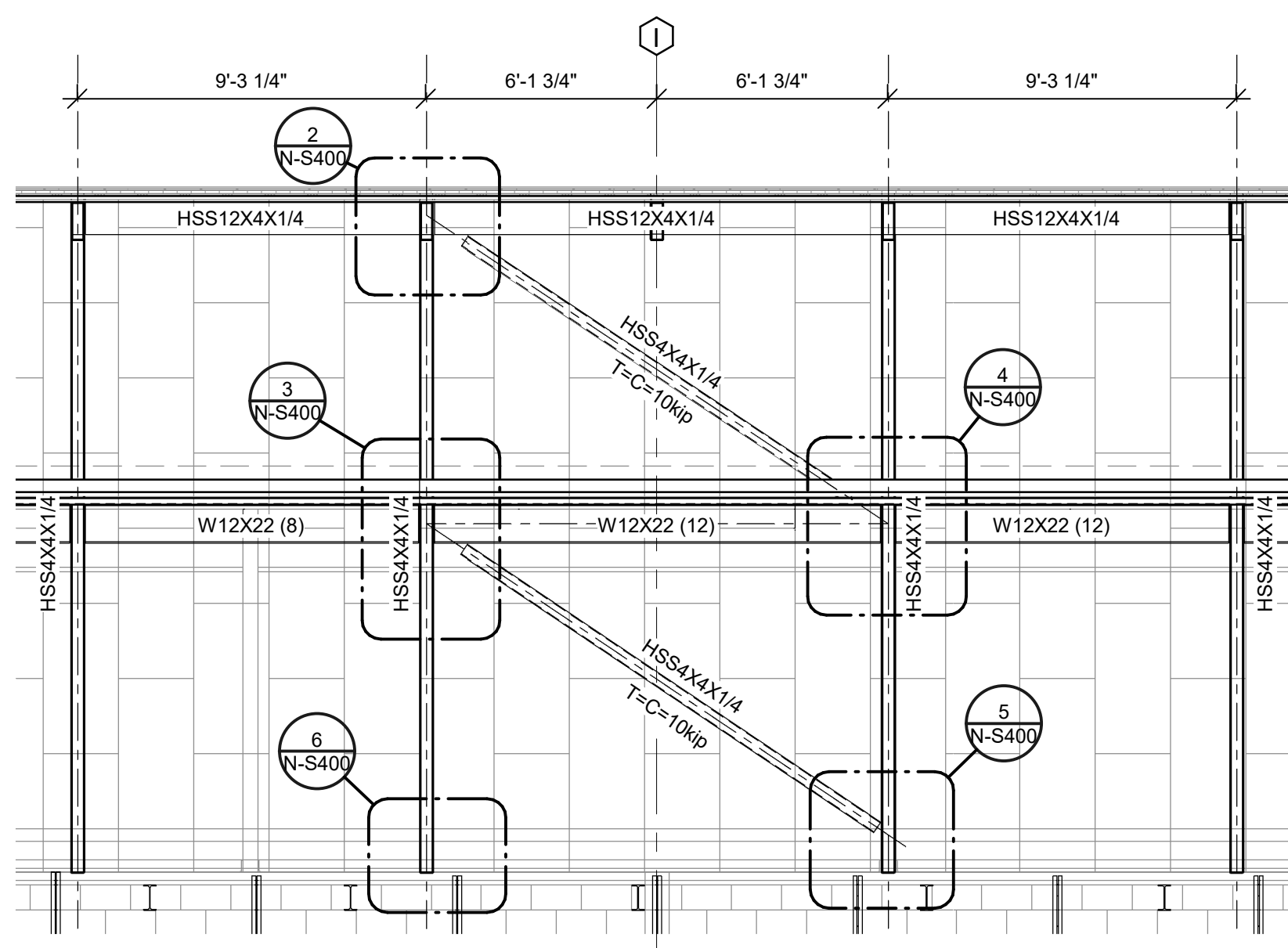
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PROJECT NO: 0119-0101
DATE: September 28, 2020

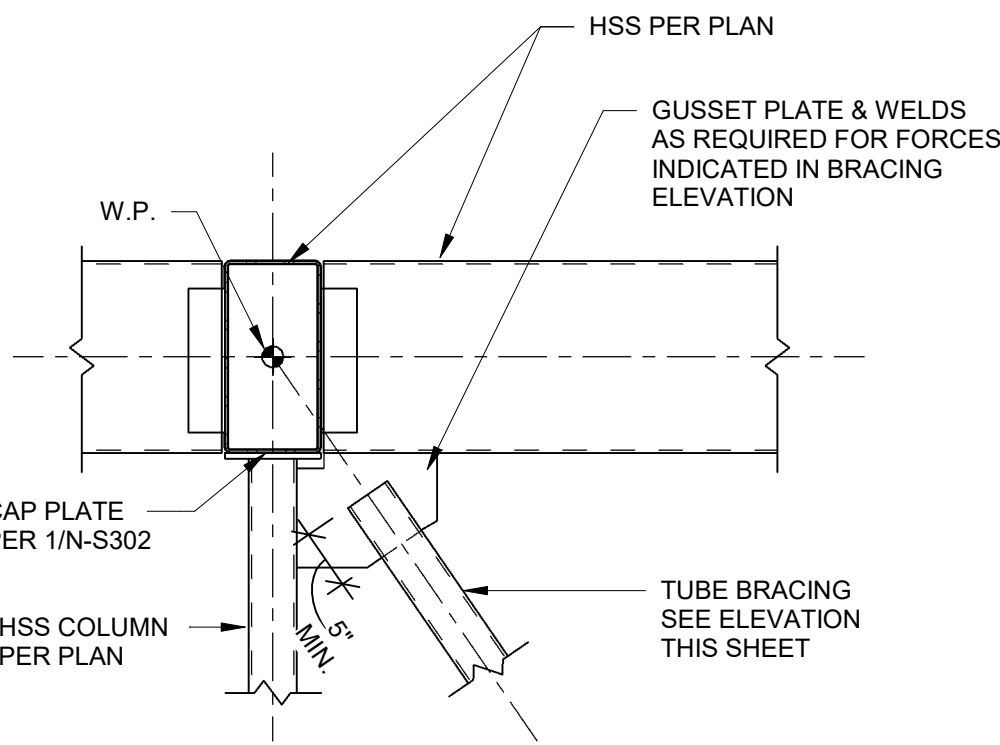
Framing Elevations

N-S400

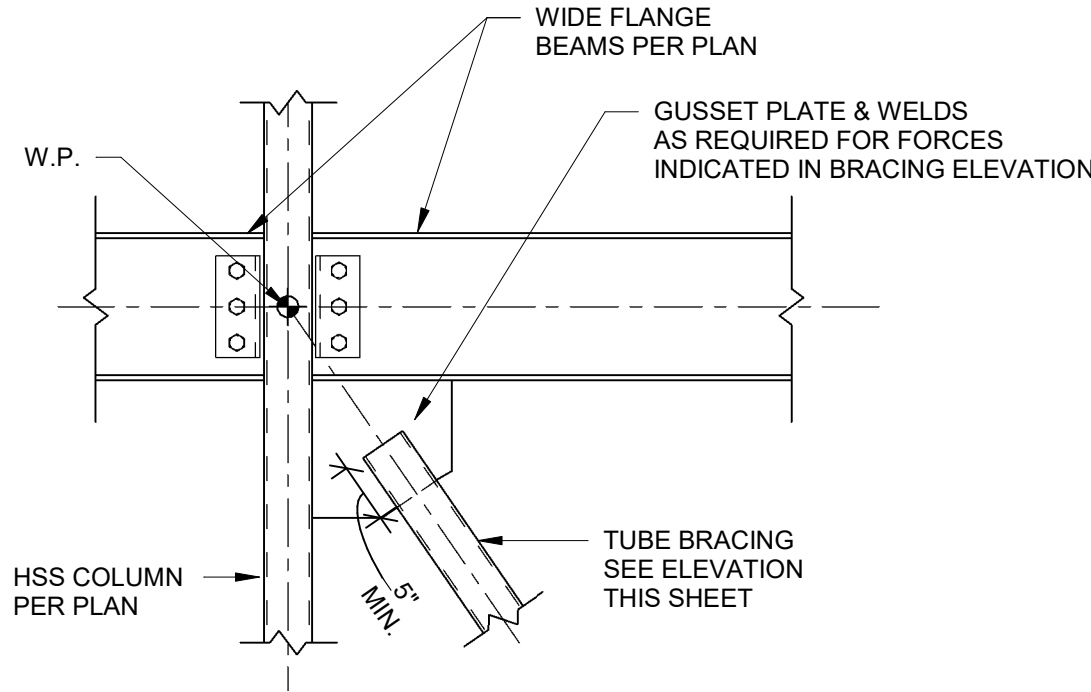
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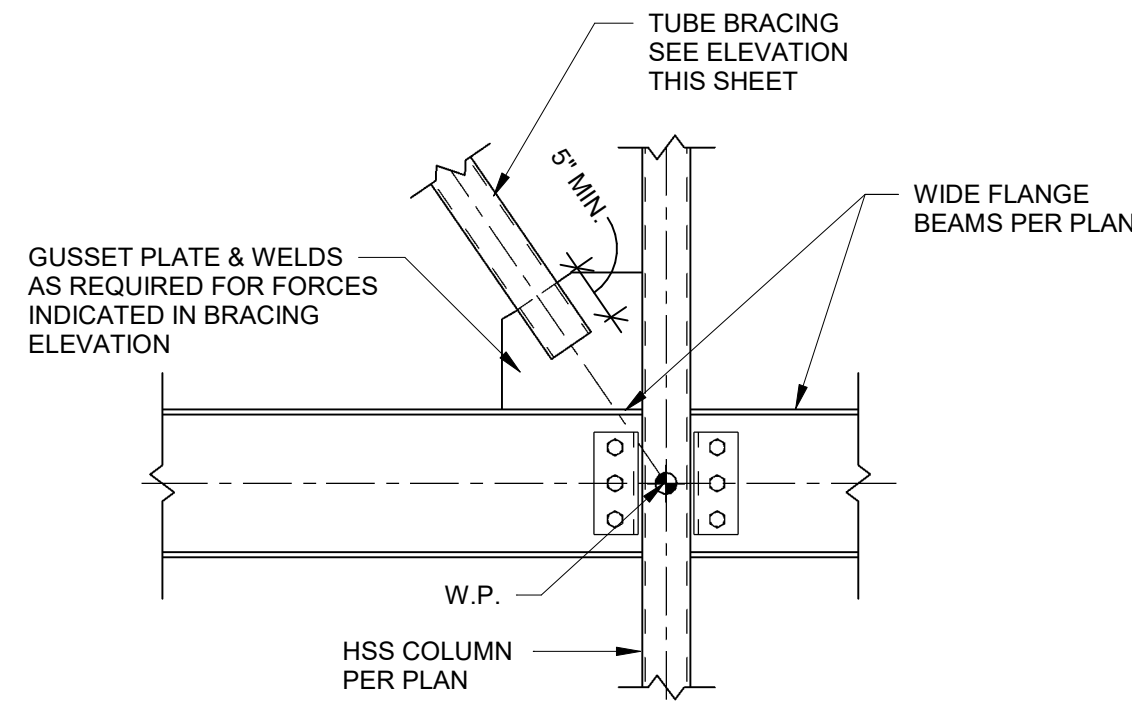
1 ELEVATION
1/4" = 1'-0"



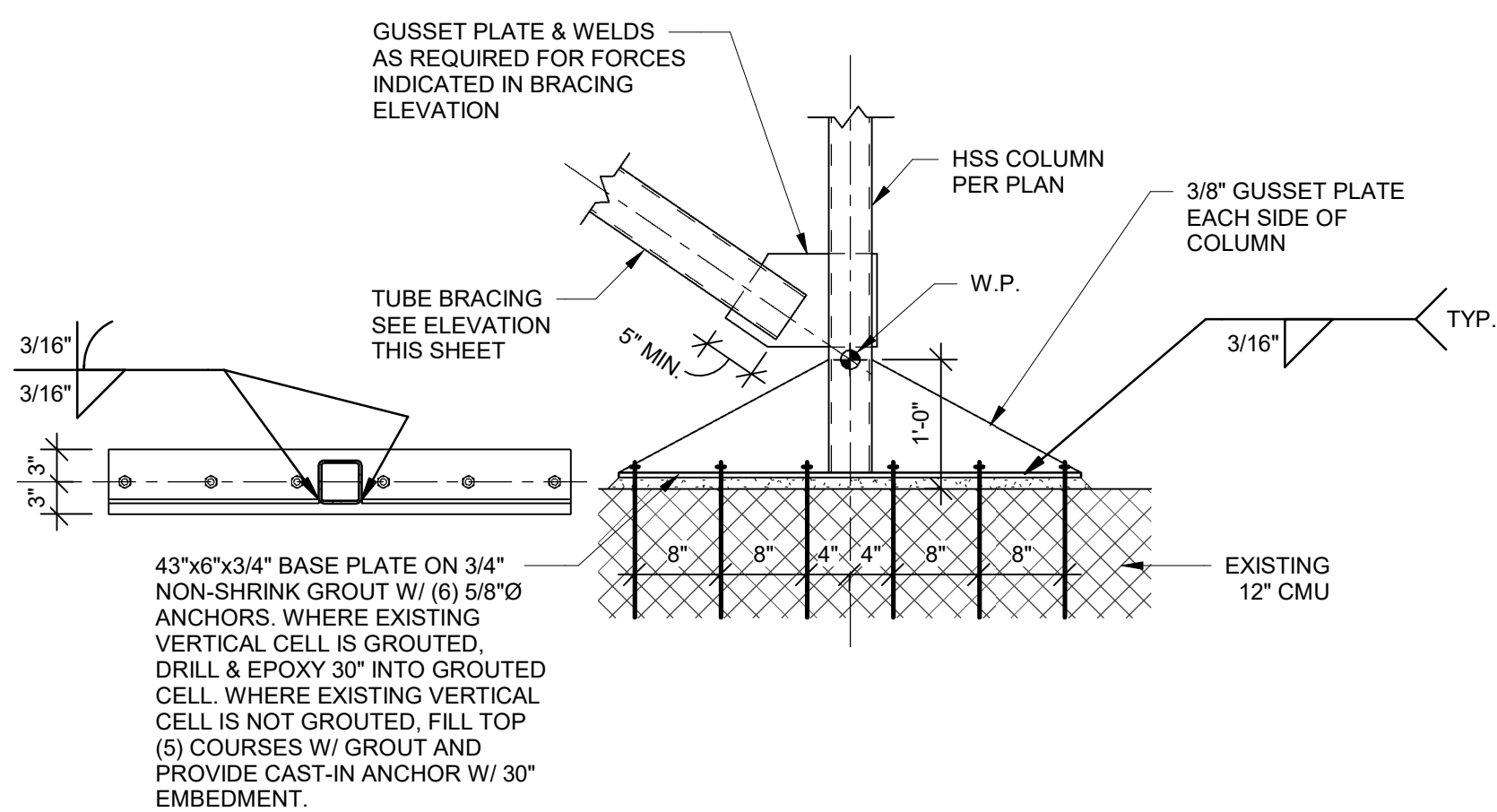
2 DETAIL
3/4" = 1'-0"



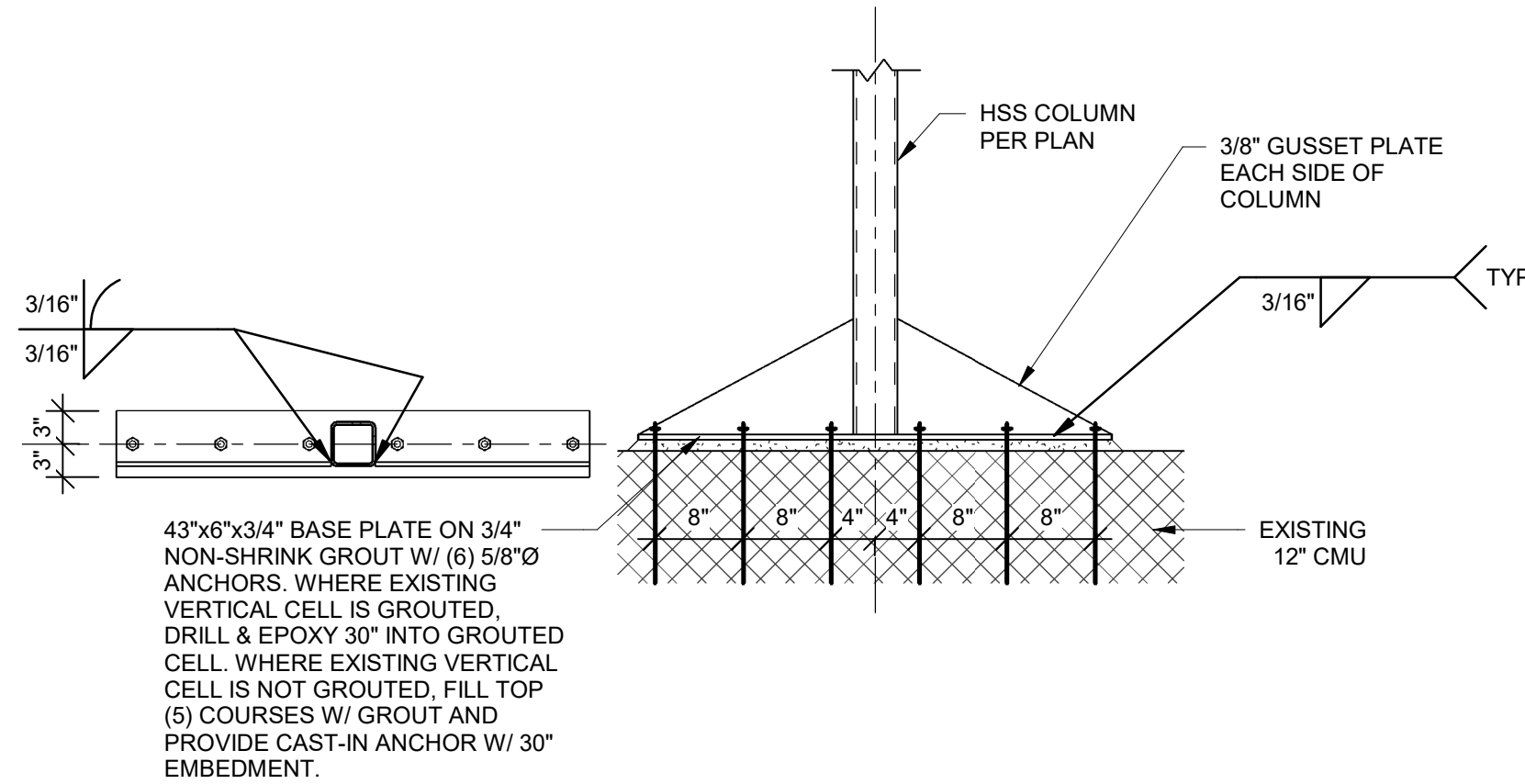
3 DETAIL
3/4" = 1'-0"



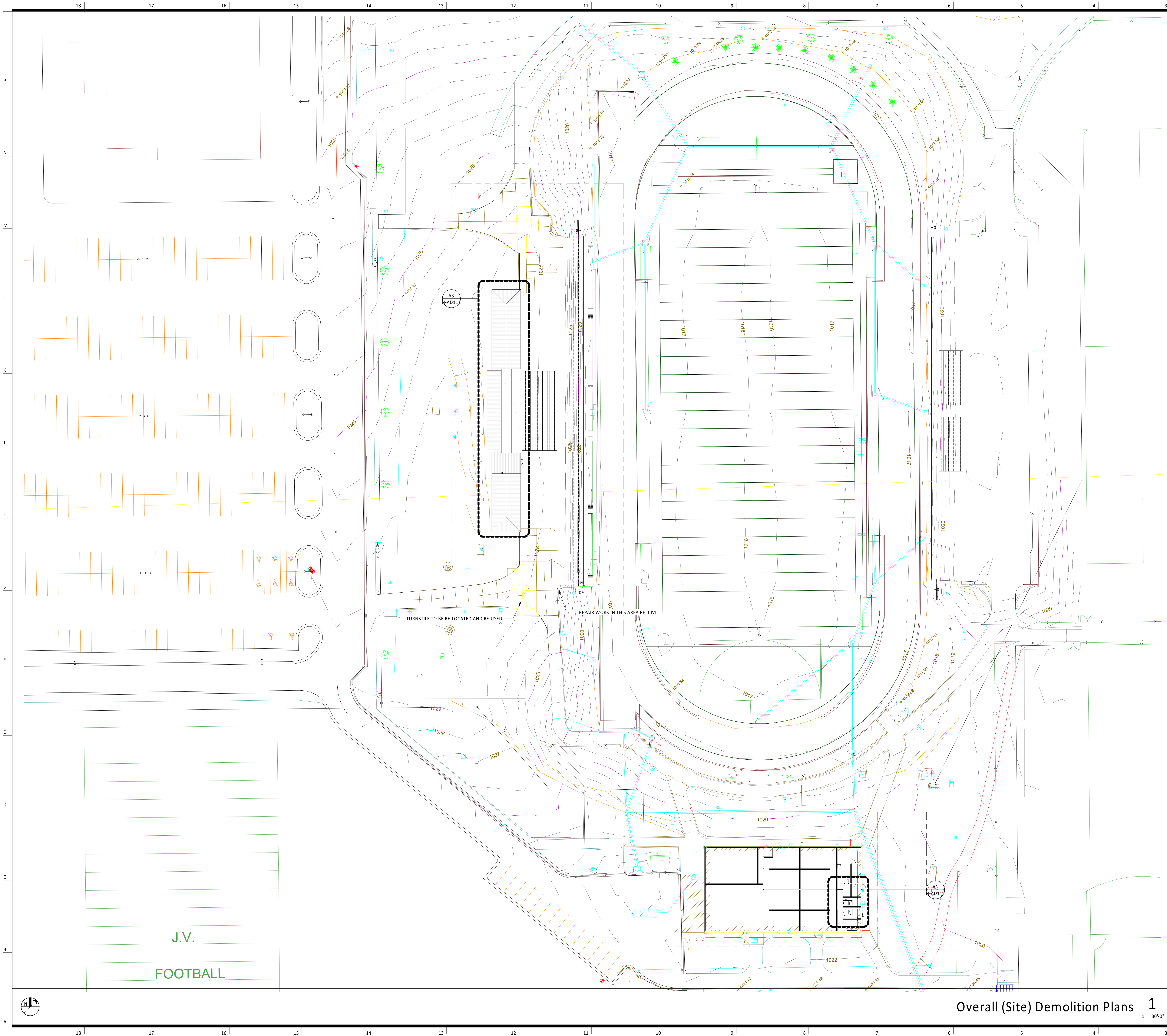
4 DETAIL
3/4" = 1'-0"



5 DETAIL
3/4" = 1'-0"



6 DETAIL
3/4" = 1'-0"



- General Notes (Demo Site Plan):**
- DEMOLITION OF ELEMENTS ON THIS PLAN ARE LOCATED TO THE BEST OF OUR KNOWLEDGE AND SHOULD BE VERIFIED IN FIELD BEFORE BEGINNING DEMOLITION.
 - PROTECT SITE ELEMENTS THAT ARE EXISTING TO REMAIN FROM DAMAGE. INCLUDING BUT NOT LIMITED TO: EXISTING FENCE & GATES, EXISTING BLEACHERS, EXISTING ATHLETICS TRACK, EXISTING SCOREBOARD, ETC.
 - ALL GATES ASSOCIATED WITH FENCE TO BE DEMOLISHED SHALL ALSO BE DEMOLISHED, VERIFY IN FIELD.
 - ALL FENCE TO BE REPLACED IN PLACE SHALL ALSO HAVE ANY CORRESPONDING GATES REPLACED. RE: N-AS201, VERIFY IN FIELD.
 - FILL ALL POST HOLES AFTER DEMOLITION OF FENCE POSTS.

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Jay Darren Browning Date: 09/28/2020
Architect License No. A-2009027279

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Number	DESCRIPTION	DATE
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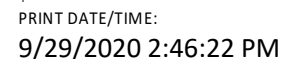
PROJECT NO: 0119-0101
DATE: September 28, 2020

Overall (Site)
Demolition Plans

N-AD100

BID SET

Overall (Site) Demolition Plans **1**
1" = 30'-0"



BID SET

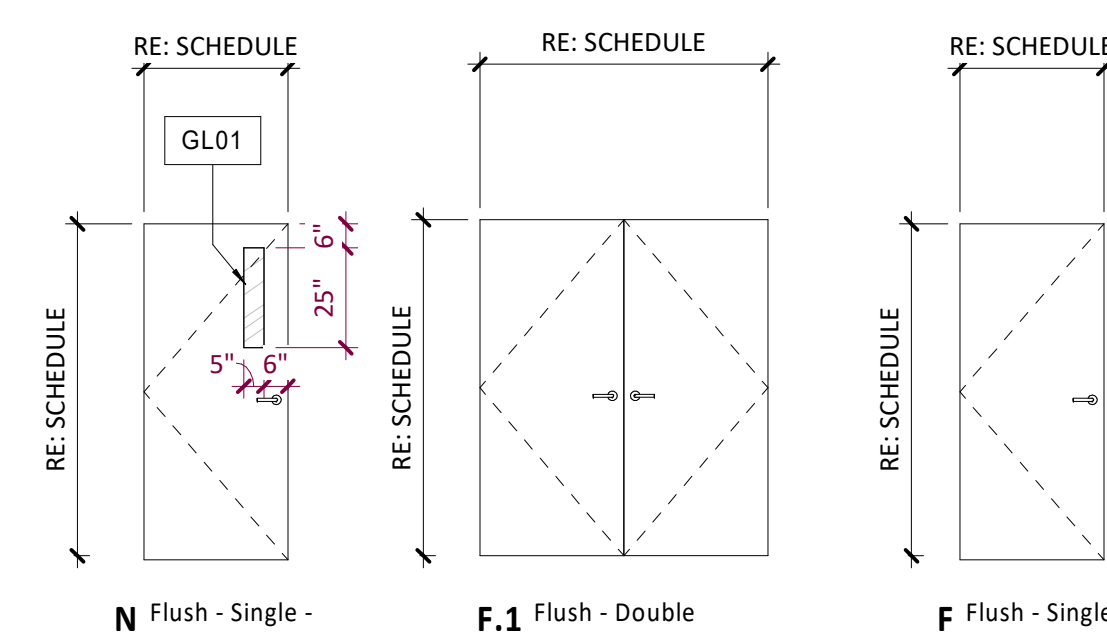


DOOR FRAME, PAINT TO MATCH ADJ. WALL

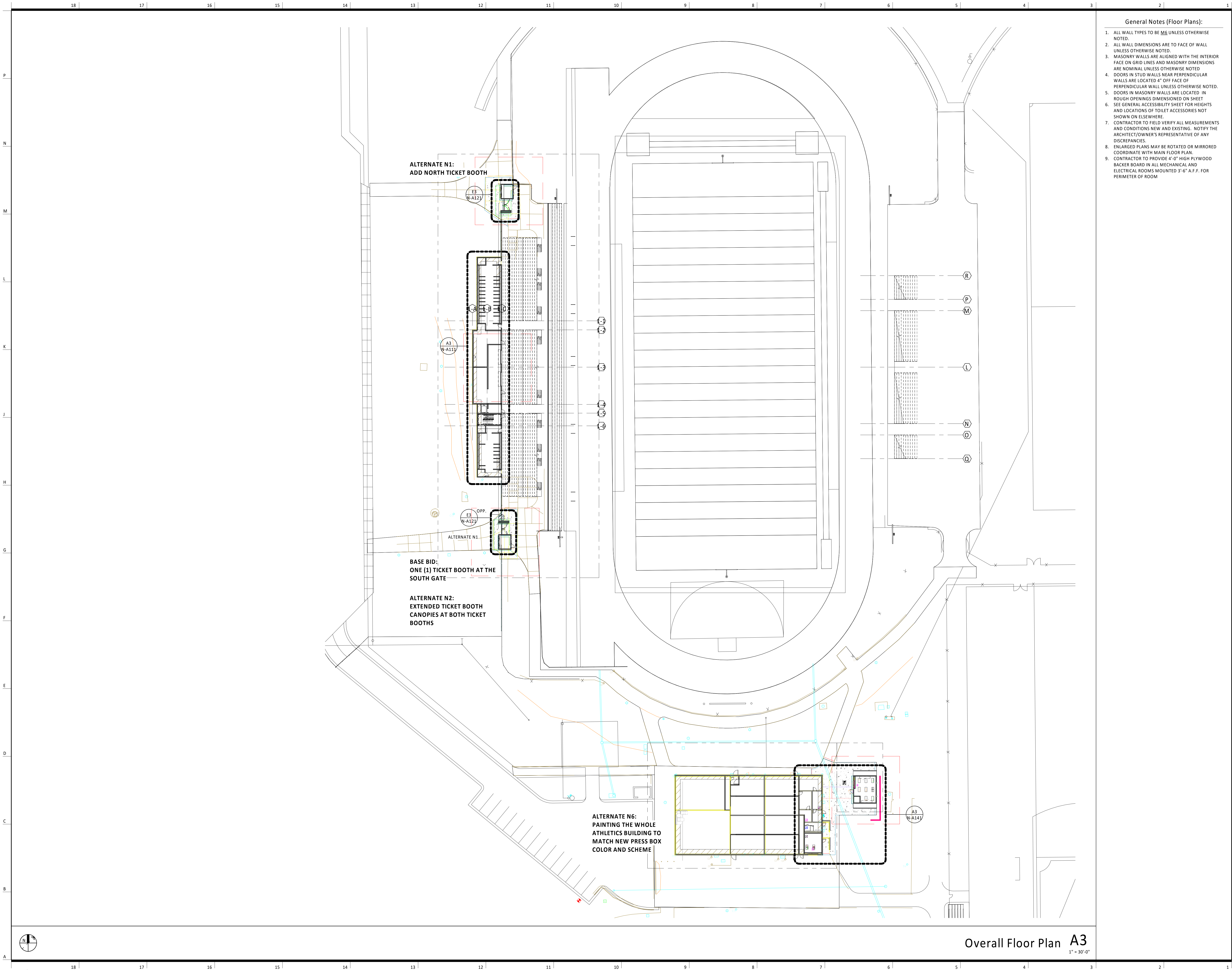
(092216) NON-STRUCTURAL METAL FRAMING

PLAN

Door Details **D3**
1 1/2" = 1'



Door Types **A3**
1/4" = 1'-0"



- General Notes (Floor Plans):
1. ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
 2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
 3. MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
 4. DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
 5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
 6. SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
 7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
 8. ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
 9. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

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Lee's Summit, MO 64086

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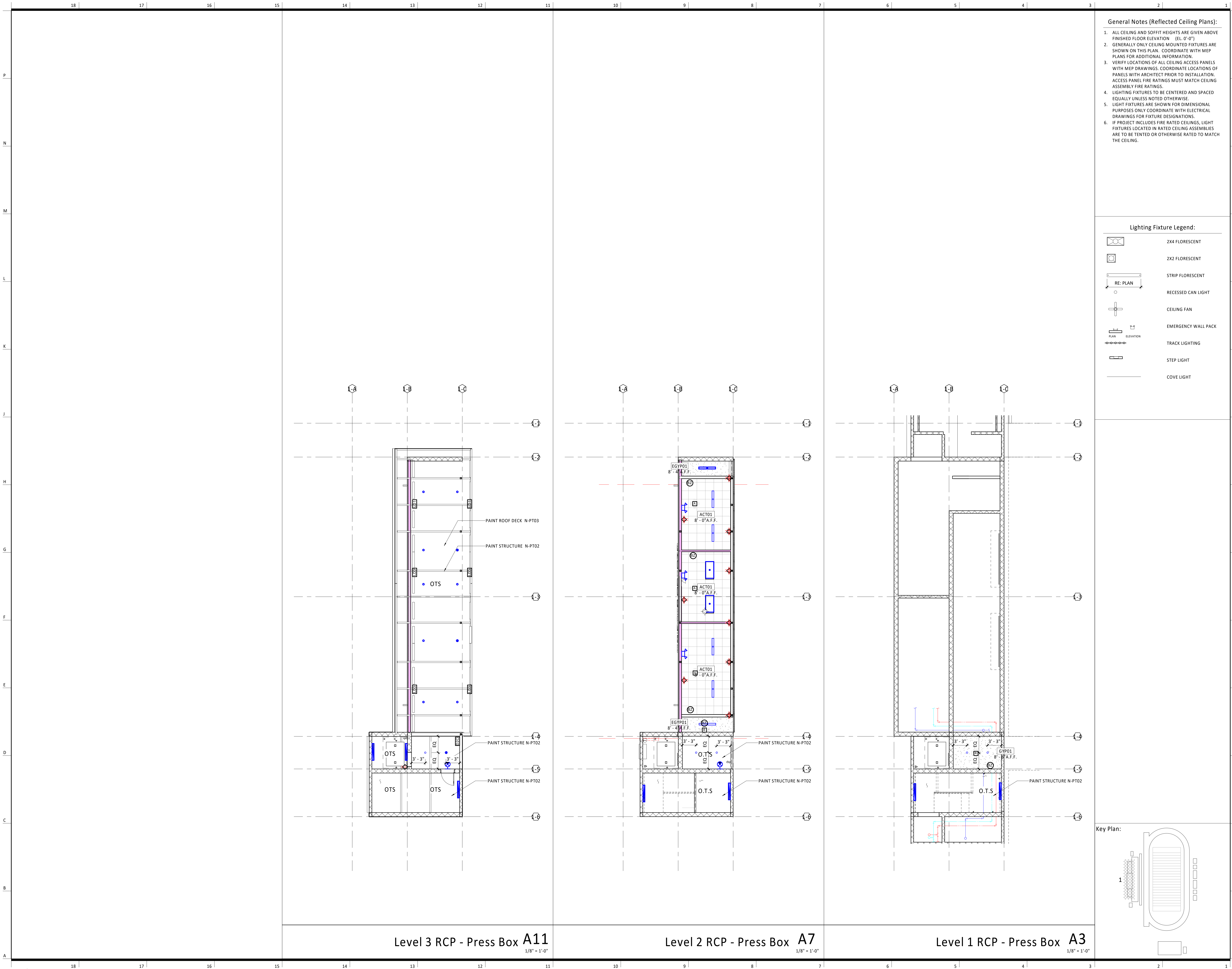
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Jay Darren Browning Date: 09/28/2020
Architect License No. A-2009027279

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Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Overall Floor Plan
N-A101
BID SET



Lee's Summit R7 District
Athletics Facilities

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Lee's Summit, MO 64086

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Jay Darren Browning
Architect License No. A-2009027279

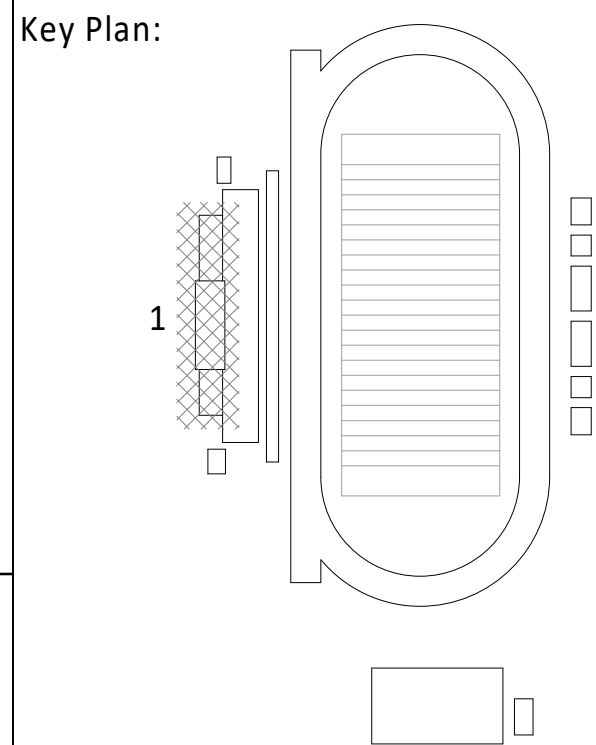
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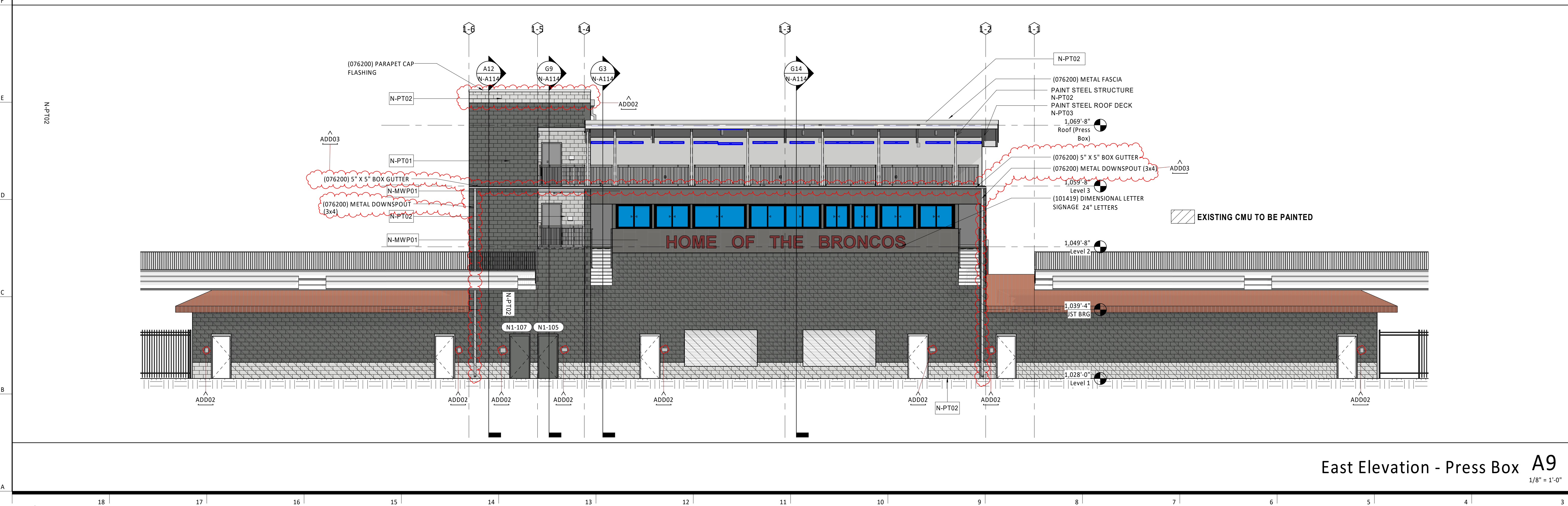
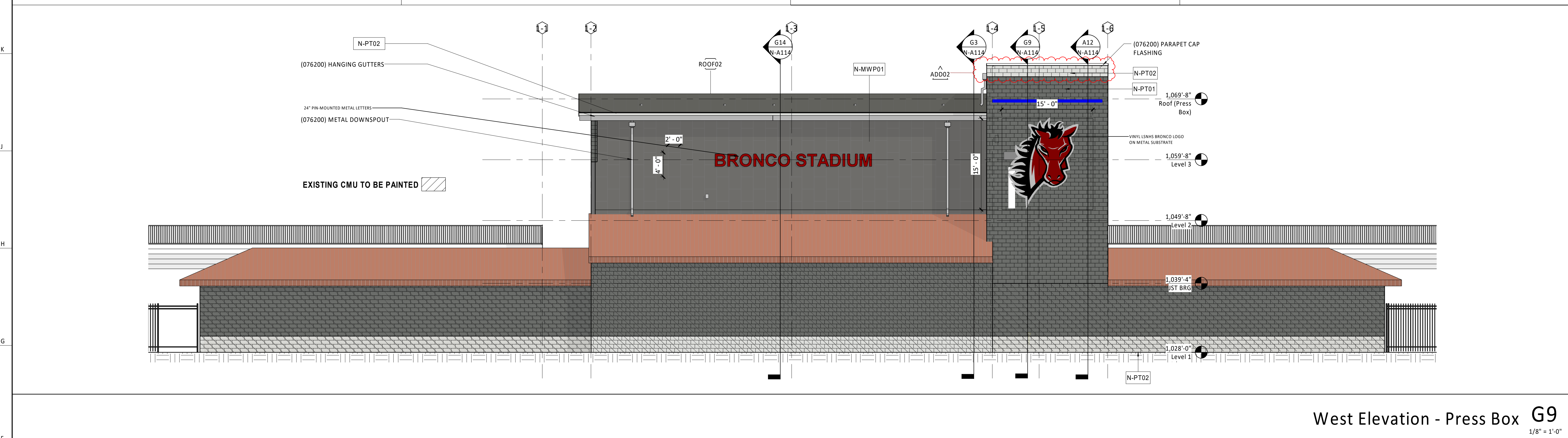
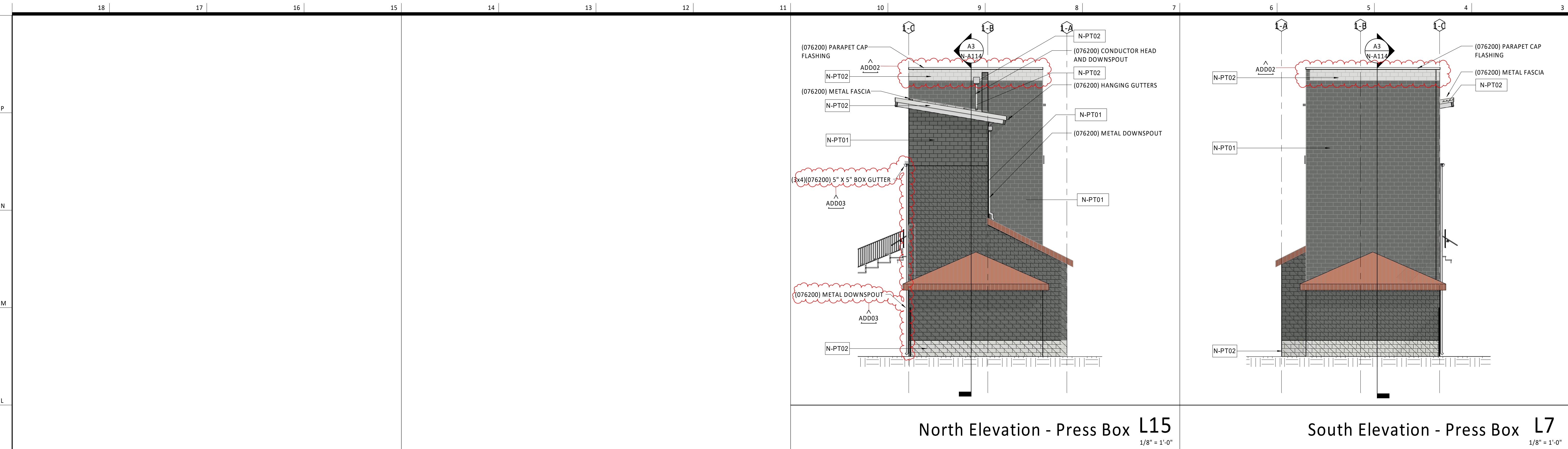
PROJECT NO: 0119-0101
DATE: September 28, 2020

Press Box - Reflected
Ceiling Plans

N-A112

BID SET





General Notes (Exterior Elevations):

- MATERIALS AND FINISHES INDICATED APPLY TO ALL SIMILAR ELEMENTS
- COORDINATE EXTERIOR LIGHTING FIXTURE TYPES AND LOCATIONS WITH ELECTRICAL DRAWINGS.

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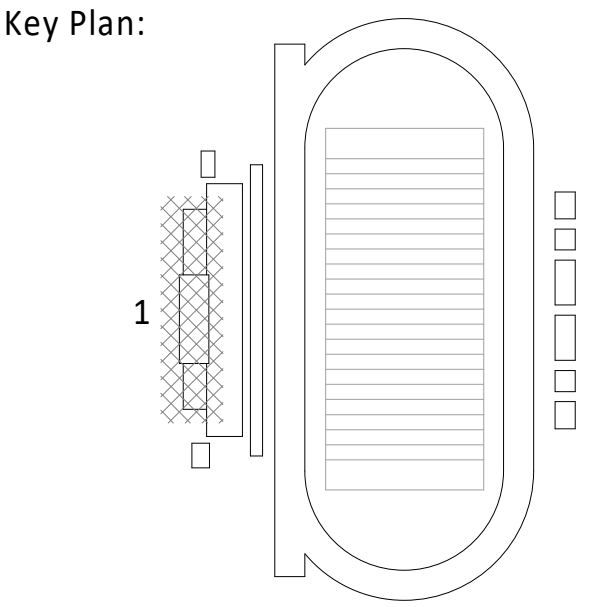
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JAY DARREN BROWNING
ARCHITECT
11.3.20

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Missouri License No. 2018022991
Jay Darren Browning
Date: 11/03/2020
Architect License No. A-2009027279

REVISIONS		
Number	DESCRIPTION	DATE
ADD02	ADDENDUM 02	10/10/2020
ADD03	ADDENDUM 03	10/23/2020

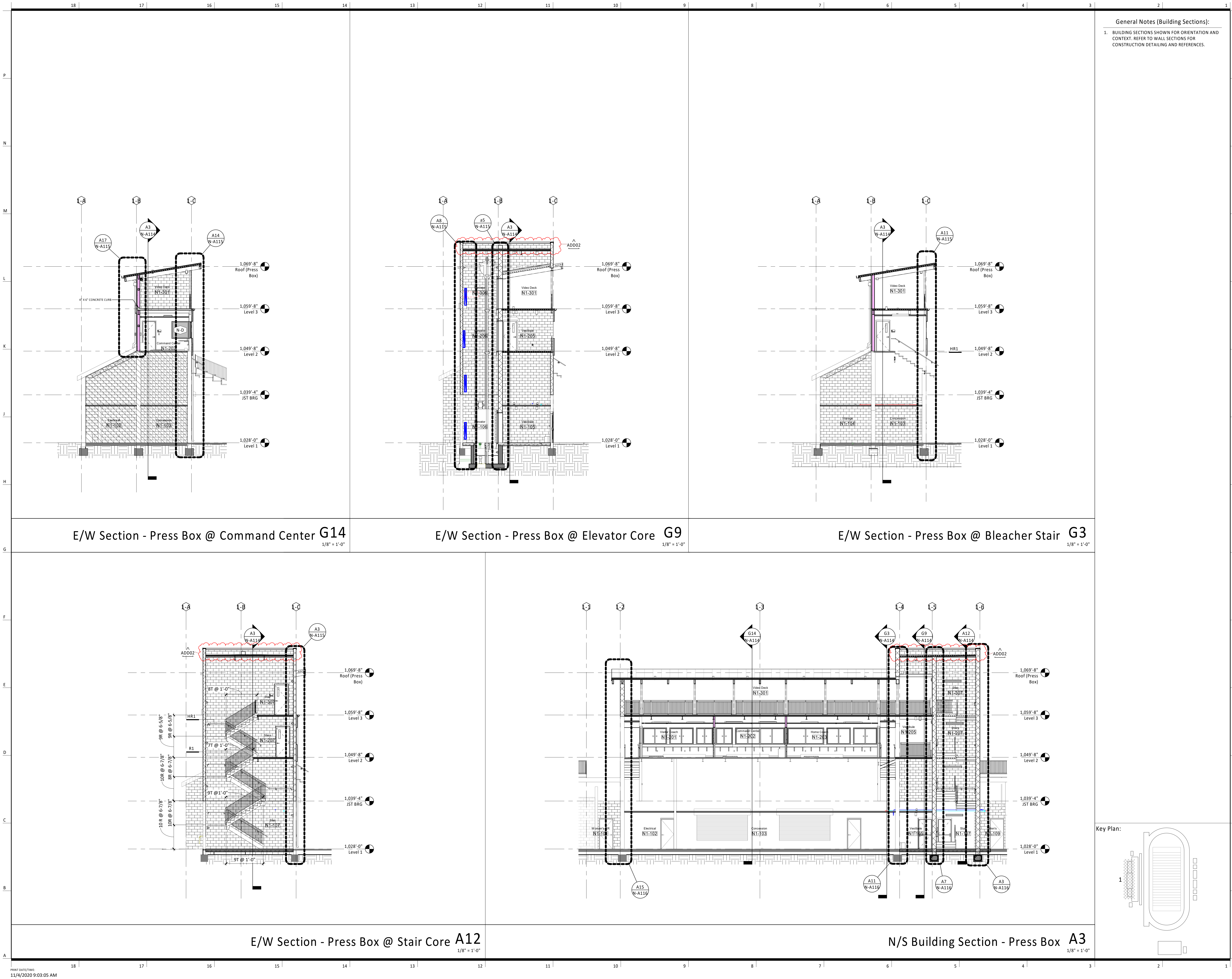


PROJECT NO: 0119-0101
DATE: September 28, 2020

**Press Box - Exterior
Elevations**

N-A113

BID SET



Lee's Summit R7 District
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Lee's Summit, MO 64086

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Jay Darren Browning License No. A-2009027273

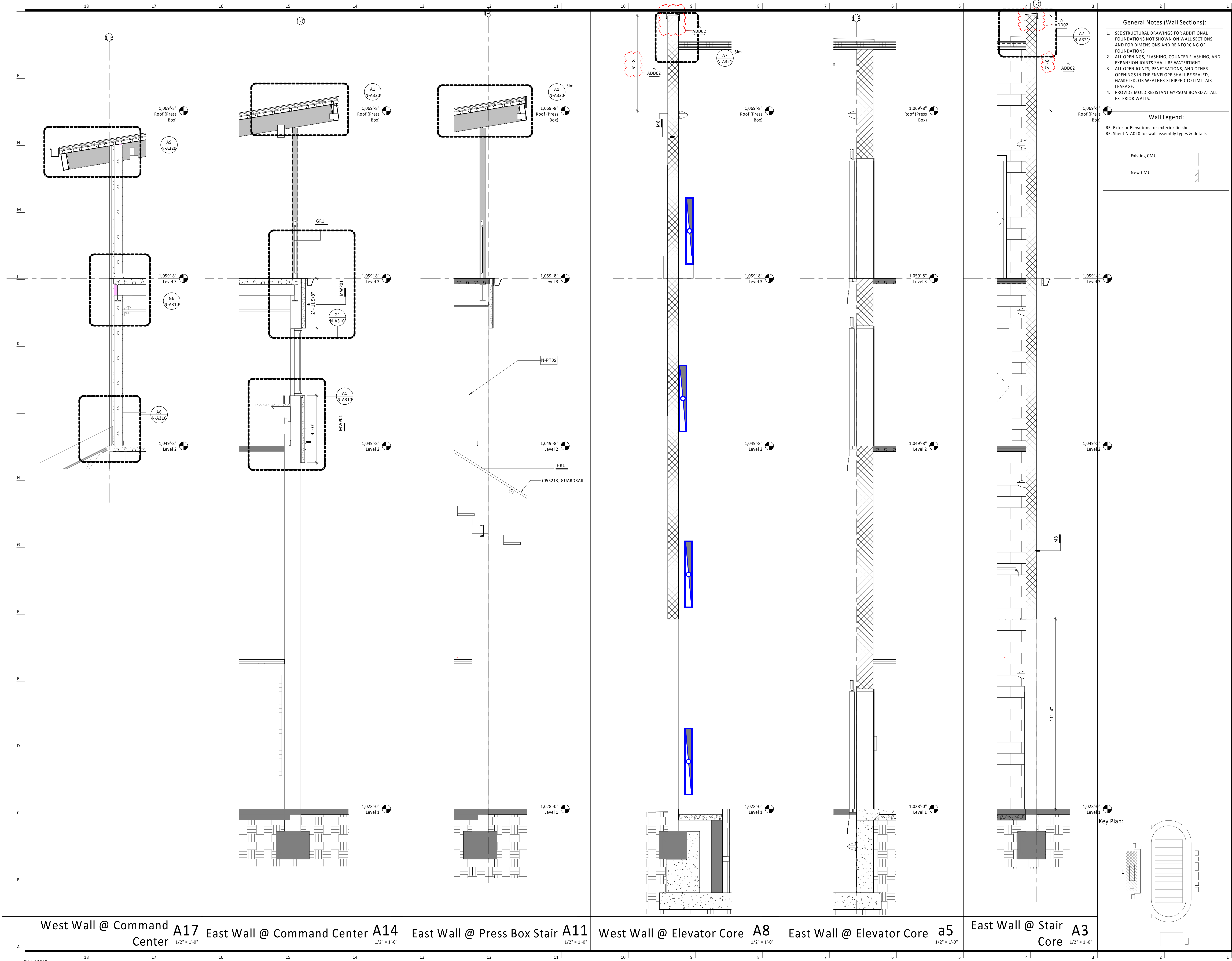
REVISIONS		
Number	DESCRIPTION	DATE
ADD02	ADDENDUM 02	10/30/2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

Press Box - Building
Sections

N-A114

BID SET



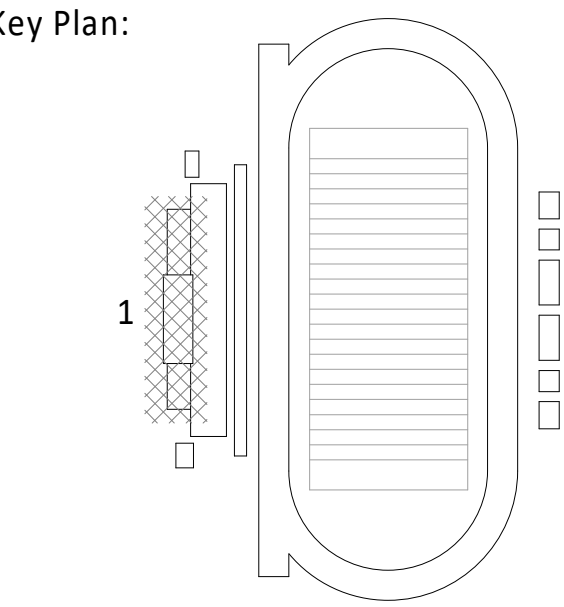
General Notes (Wall Sections):

- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FOUNDATIONS NOT SHOWN ON WALL SECTIONS AND FOR DIMENSIONS AND REINFORCING OF FOUNDATIONS
- ALL OPENINGS, FLASHING, COUNTER FLASHING, AND EXPANSION JOINTS SHALL BE WATER TIGHT.
- ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE ENVELOPE SHALL BE SEALED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE
- PROVIDE MOLD RESISTANT GYPSUM BOARD AT ALL EXTERIOR WALLS.

Wall Legend:

RE: Exterior Elevations for exterior finishes
RE: Sheet N-A020 for wall assembly types & details

Existing CMU
New CMU



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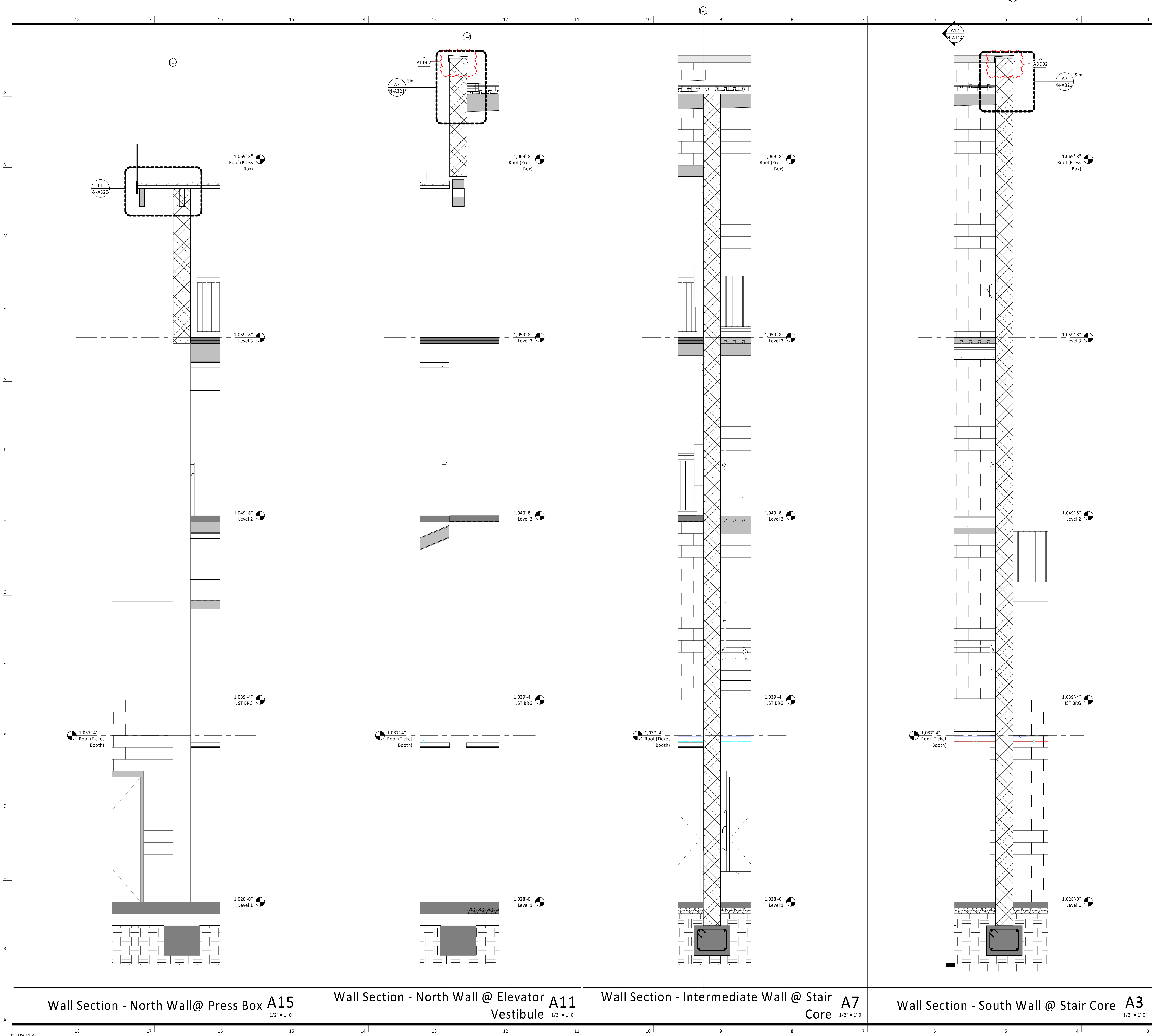
REVISIONS		
Number	DESCRIPTION	DATE
A002	ADDENDUM 02	10/30/2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

**Press Box - Wall
Sections**

N-A115

BID SET



- General Notes (Wall Sections):
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FOUNDATIONS NOT SHOWN ON WALL SECTIONS AND FOR DIMENSIONS AND REINFORCING OF FOUNDATIONS
 - ALL OPENINGS, FLASHING, COUNTER FLASHING, AND EXPANSION JOINTS SHALL BE WATER TIGHT.
 - ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE ENVELOPE SHALL BE SEALED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE
 - PROVIDE MOLD RESISTANT GYPSUM BOARD AT ALL EXTERIOR WALLS.

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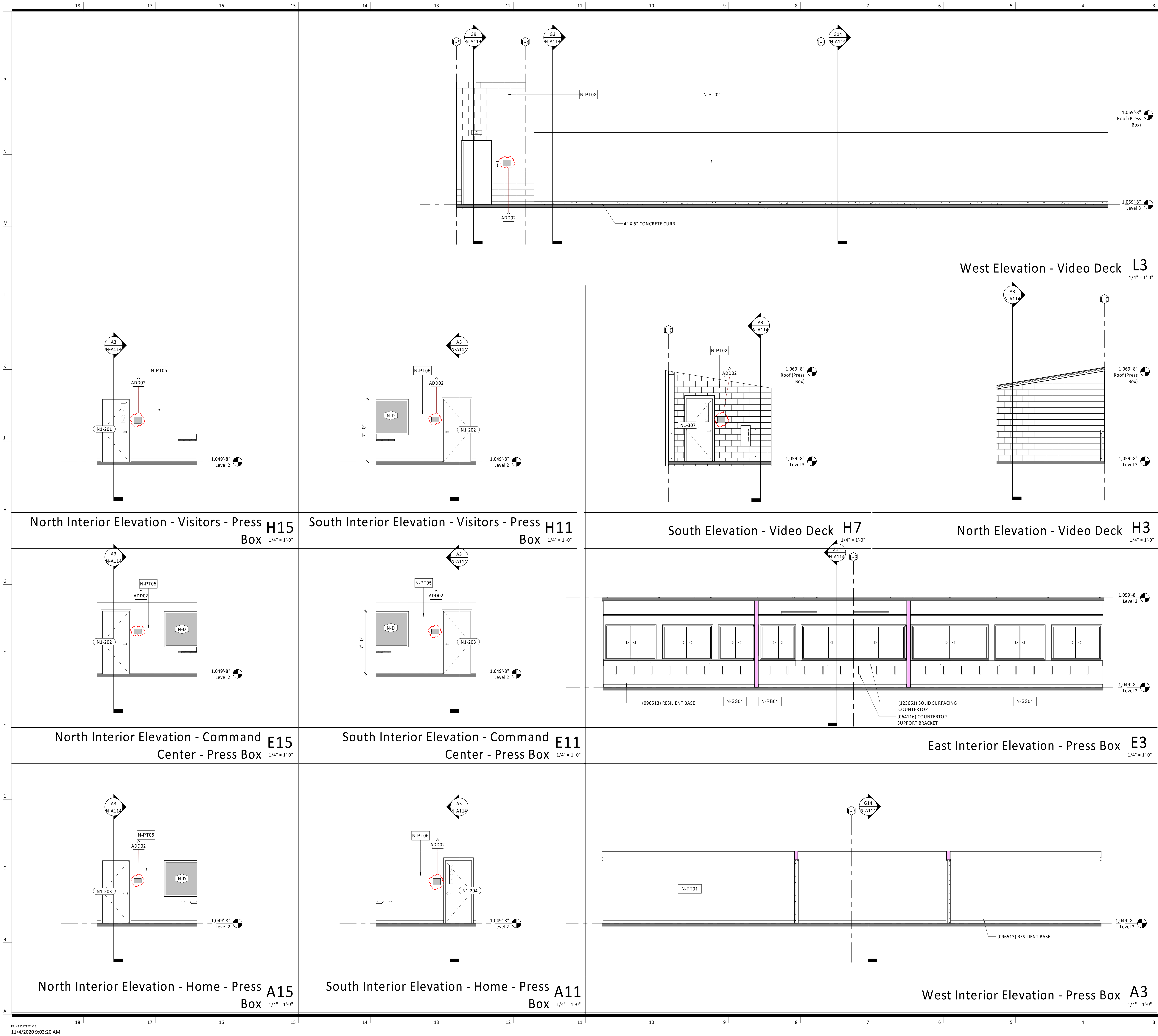
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A0002	ADDENDUM 02	10/30/2020

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DATE: September 28, 2020

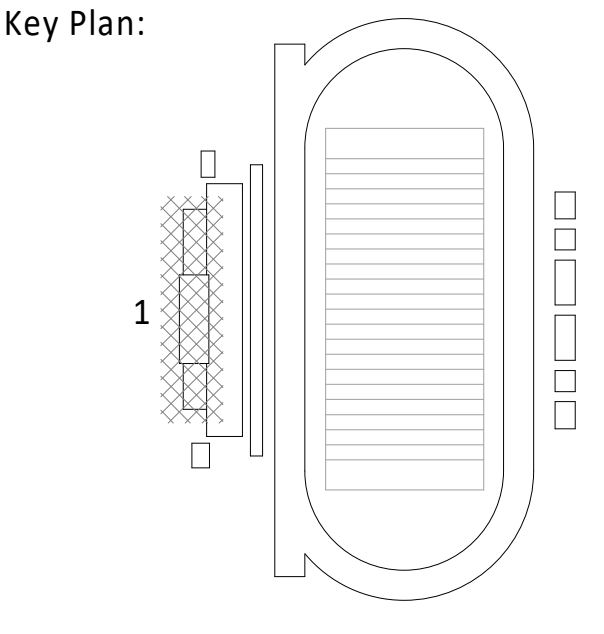
Press Box - Wall
Sections

N-A116

BID SET



- General Notes (Interior Elevations):
- REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES
 - REFER TO PROJECT STANDARDS FOR INSTALLATION INFORMATION FOR ACCESSORIES, TOILET FIXTURES, ETC.
 - REFER TO PROJECT STANDARDS FOR DEVICES FOR TYPICAL INSTALLATION INFORMATION.
 - AT GYP SOFFIT CONTROL JOINTS, CONTINUE CONTROL JOINT UP BOTH VERTICAL FACES OF SOFFIT.



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**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.331.4144

civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

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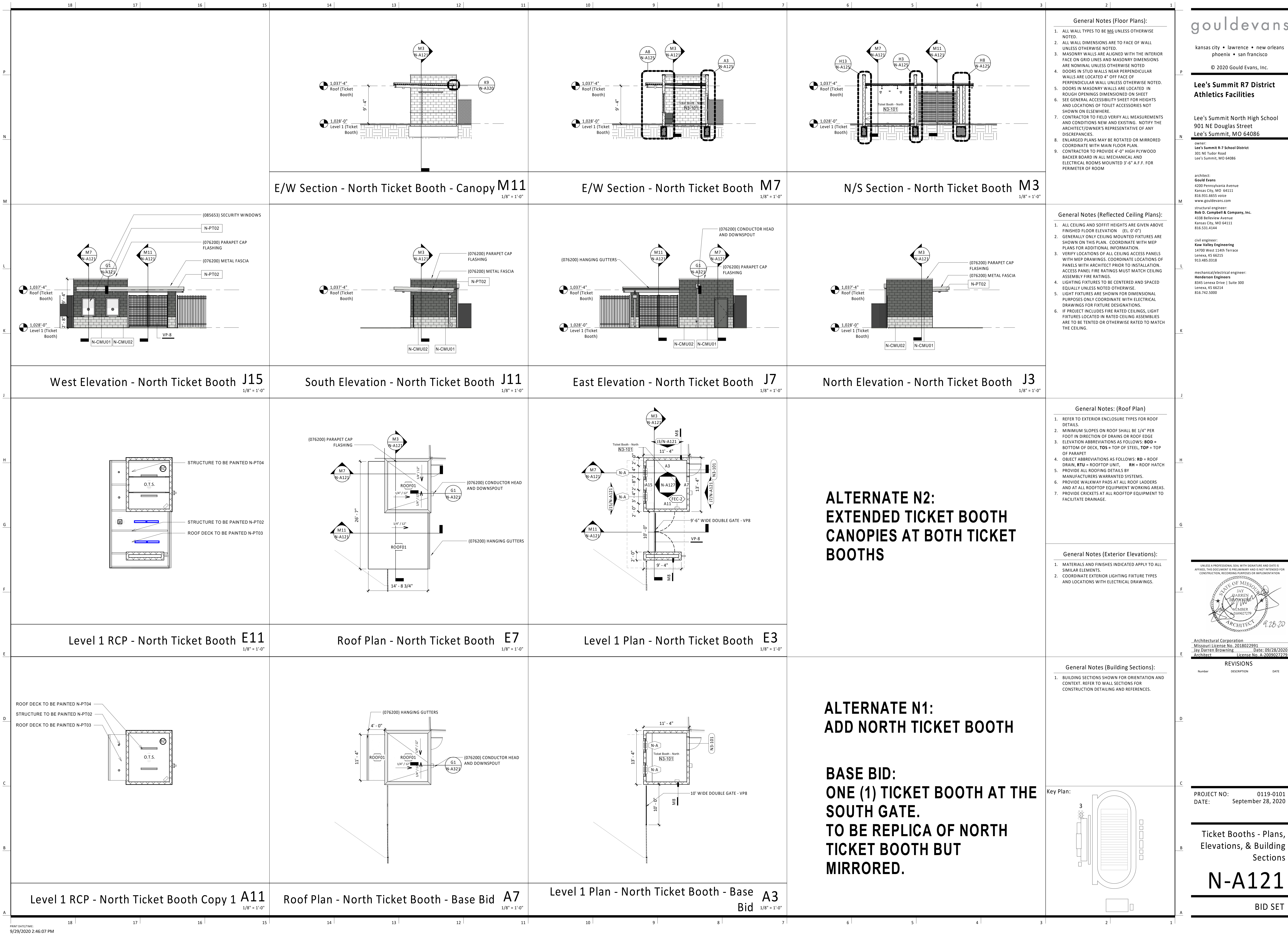
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ADD02	ADDENDUM 02	10/30/2020

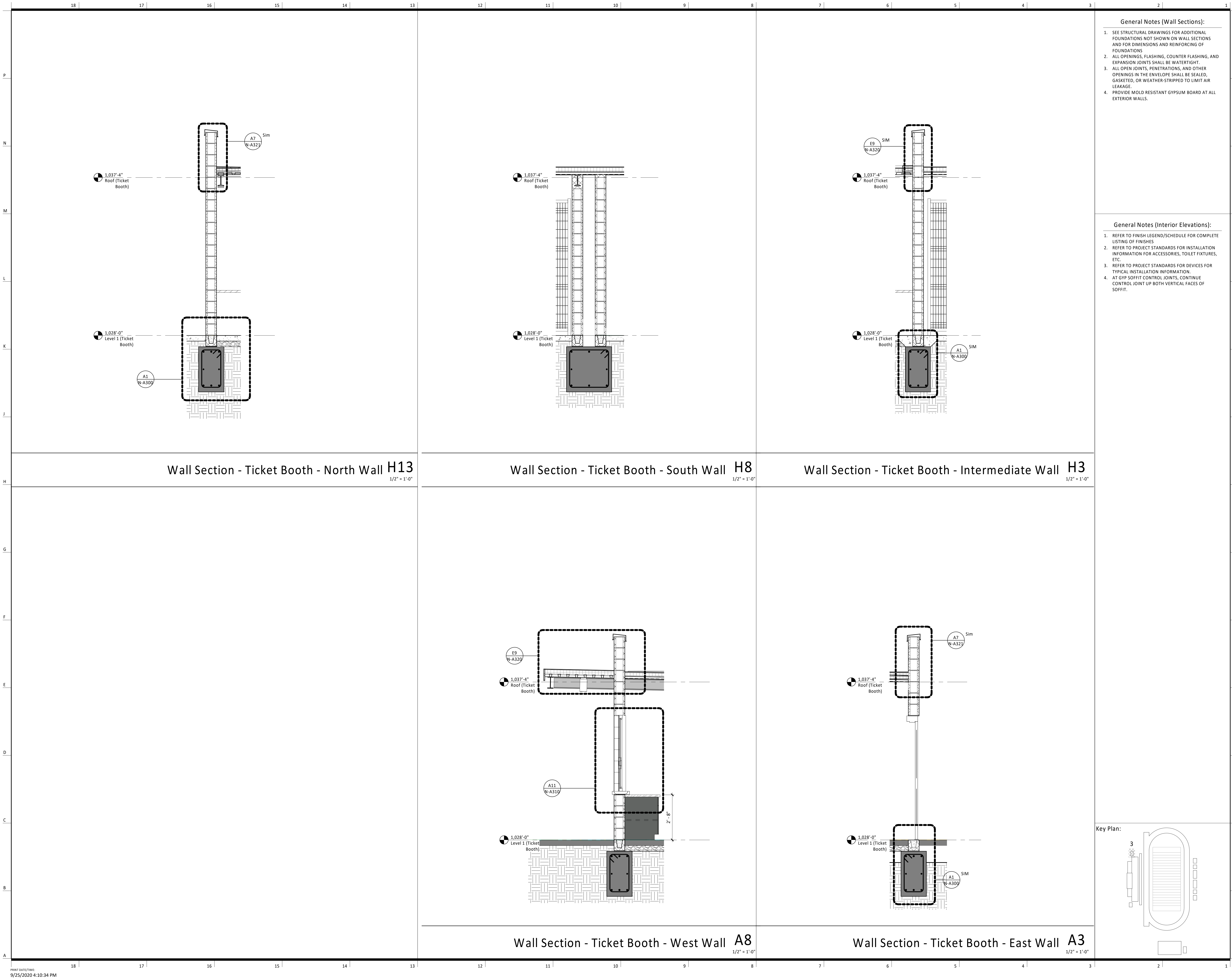
PROJECT NO: 0119-0101
DATE: September 28, 2020

**Press Box - Interior
Elevations**

N-A117

BID SET





- General Notes (Wall Sections):
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FOUNDATIONS NOT SHOWN ON WALL SECTIONS AND FOR DIMENSIONS AND REINFORCING OF FOUNDATIONS
 - ALL OPENINGS, FLASHING, COUNTER FLASHING, AND EXPANSION JOINTS SHALL BE WATERTIGHT.
 - ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE ENVELOPE SHALL BE SEALED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE
 - PROVIDE MOLD RESISTANT GYPSUM BOARD AT ALL EXTERIOR WALLS.

- General Notes (Interior Elevations):
- REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES
 - REFER TO PROJECT STANDARDS FOR INSTALLATION INFORMATION FOR ACCESSORIES, TOILET FIXTURES, ETC.
 - REFER TO PROJECT STANDARDS FOR DEVICES FOR TYPICAL INSTALLATION INFORMATION
 - AT GYP SOFFIT CONTROL JOINTS, CONTINUE CONTROL JOINT UP BOTH VERTICAL FACES OF SOFFIT.

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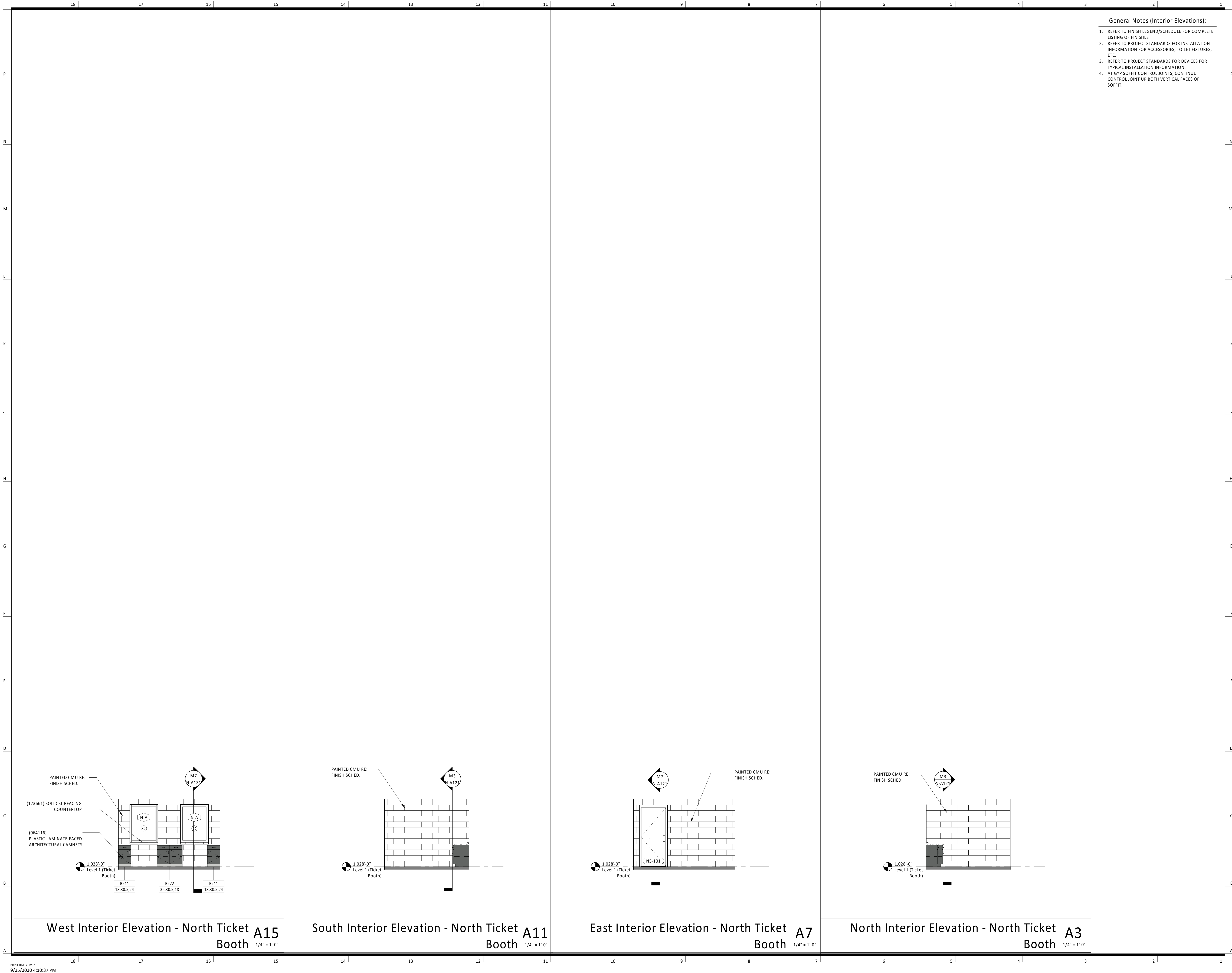
REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Ticket Booths - Wall
Sections

N-A125

BID SET



- General Notes (Interior Elevations):
- REFER TO FINISH LEGEND/SCHEDULE FOR COMPLETE LISTING OF FINISHES
 - REFER TO PROJECT STANDARDS FOR INSTALLATION INFORMATION FOR ACCESSORIES, TOILET FIXTURES, ETC.
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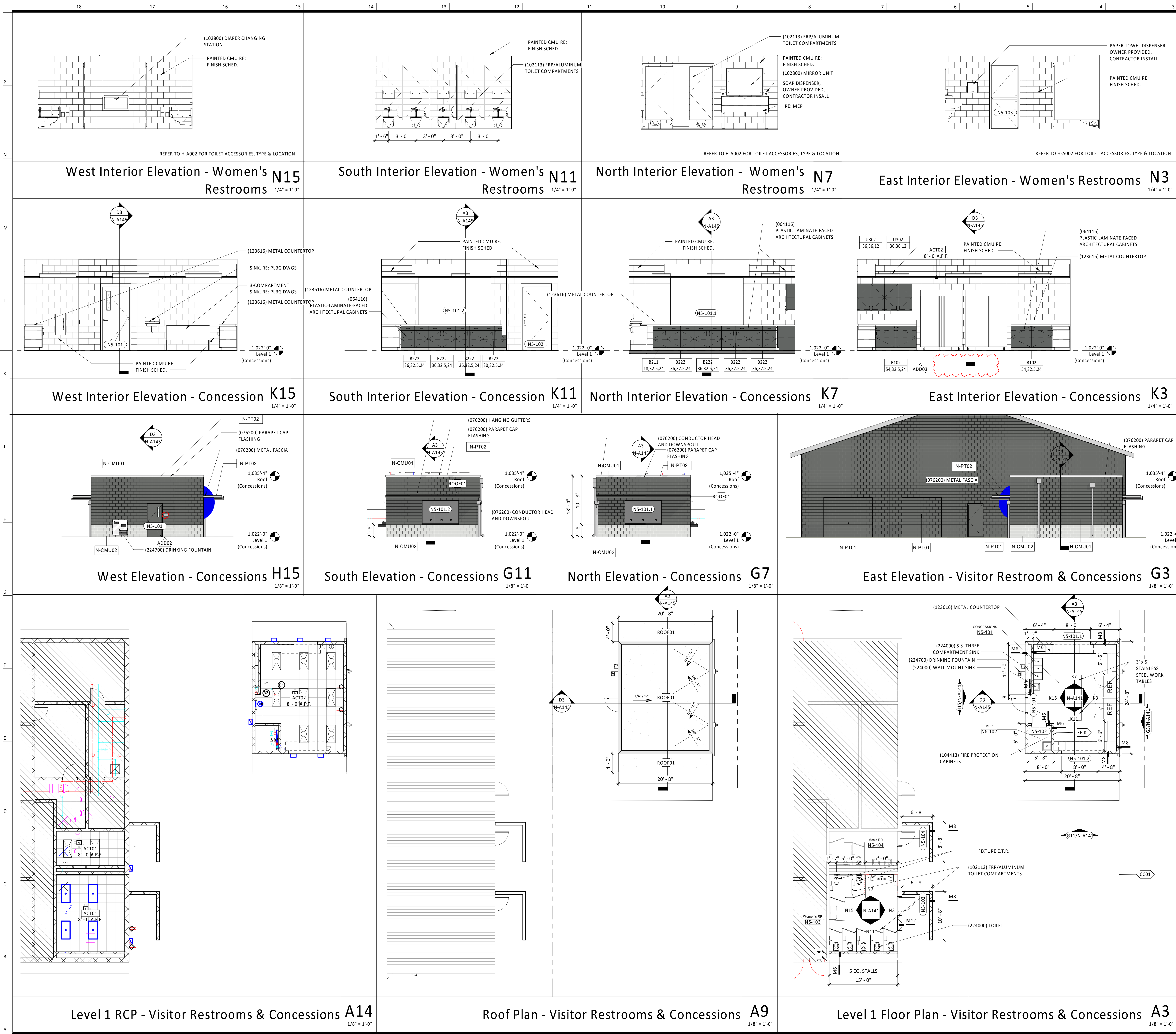
REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Ticket Booths - Interior
Elevations

N-A127

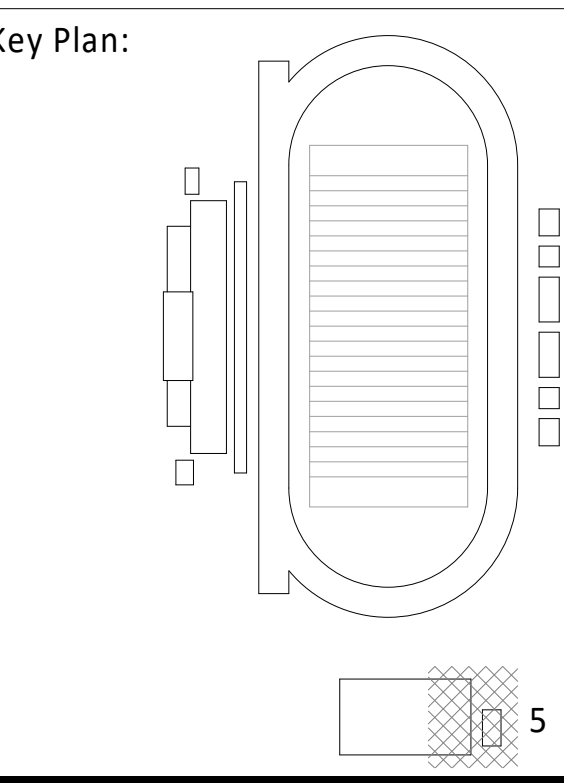
BID SET



- General Notes (Floor Plans):**
- ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
 - ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
 - MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
 - DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
 - DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
 - SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
 - CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
 - ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
 - CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

- General Notes (Reflected Ceiling Plans):**
- ALL CEILING AND SOFFIT HEIGHTS ARE GIVEN ABOVE FINISHED FLOOR ELEVATION (EL 0'-0").
 - GENERALLY ONLY CEILING MOUNTED FIXTURES ARE SHOWN ON THIS PLAN. COORDINATE WITH MEP PLANS FOR ADDITIONAL INFORMATION.
 - VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEP DRAWINGS. COORDINATE LOCATIONS OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANEL FIRE RATINGS MUST MATCH CEILING ASSEMBLY FIRE RATINGS.
 - LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
 - LIGHT FIXTURES ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS.
 - IF PROJECT INCLUDES FIRE RATED CEILINGS, LIGHT FIXTURES LOCATED IN RATED CEILING ASSEMBLIES ARE TO BE TENTED OR OTHERWISE RATED TO MATCH THE CEILING.

- General Notes: (Roof Plan)**
- REFER TO EXTERIOR ENCLOSURE TYPES FOR ROOF DETAILS.
 - MINIMUM SLOPES ON ROOF SHALL BE 1/4" PER FOOT IN DIRECTION OF DRAINS OR ROOF EDGE.
 - ELEVATION ABBREVIATIONS AS FOLLOWS: **BOB** = BOTTOM OF DECK, **TOS** = TOP OF STEEL, **TOP** = TOP OF PARAPET.
 - OBJECT ABBREVIATIONS AS FOLLOWS: **RD** = ROOF DRAIN, **RTU** = ROOFTOP UNIT, **MANUFACTURERS** WARRANTED SYSTEMS.
 - PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.
 - PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE.



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Lee's Summit R7 District Athletics Facilities

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JAY DARREN BROWNING
ARCHITECT
2009007279
11.3.20

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Jay Darren Browning
Date: 11/03/2020
License No. A-200902279

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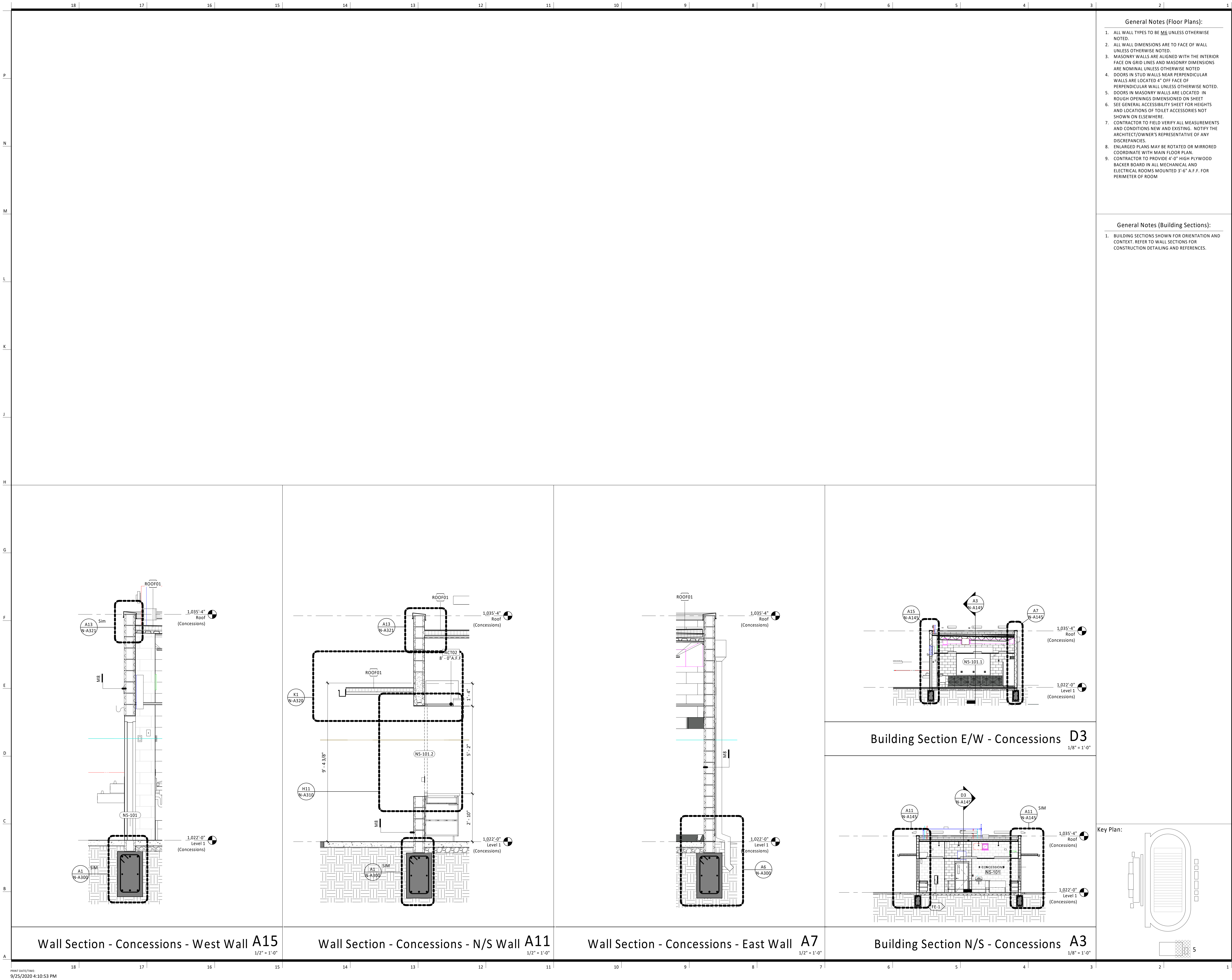
Number	DESCRIPTION	DATE
ADD02	ADDENDUM 02	10/10/2020
ADD03	ADDENDUM 03	10/23/2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

Restrooms & Concessions - Plans & Elevations

N-A141

BID SET



- General Notes (Floor Plans):
1. ALL WALL TYPES TO BE M6 UNLESS OTHERWISE NOTED.
 2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.
 3. MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED.
 4. DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
 5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET.
 6. SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
 7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
 8. ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
 9. CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM.

- General Notes (Building Sections):
1. BUILDING SECTIONS SHOWN FOR ORIENTATION AND CONTEXT. REFER TO WALL SECTIONS FOR CONSTRUCTION DETAILING AND REFERENCES.

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Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
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architect:
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civil engineer:
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913.485.0318

mechanical/electrical engineer:
Henderson Engineers
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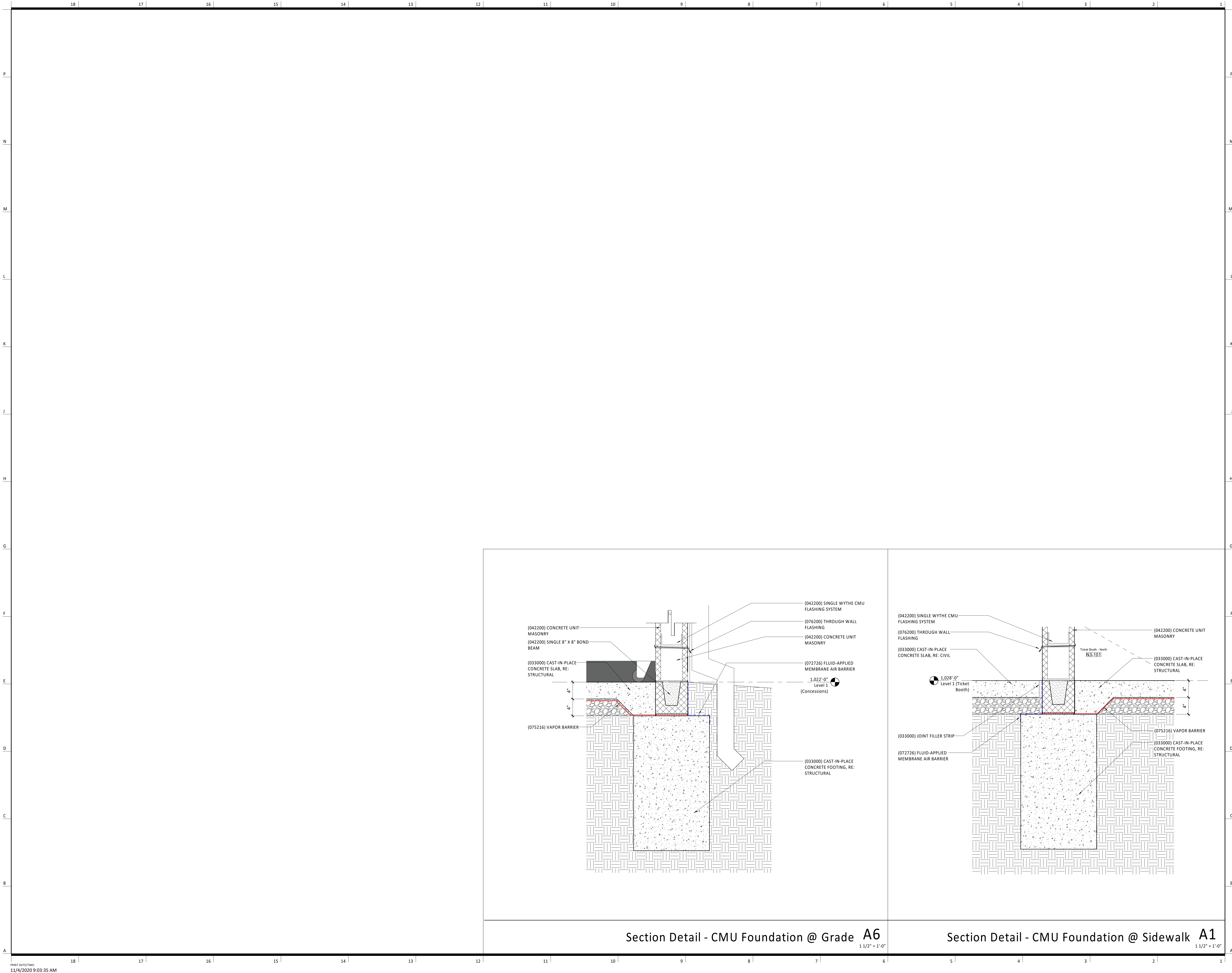
REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Restrooms &
Concessions - Wall
Sections

N-A145

BID SET



**Lee's Summit R7 District
Athletics Facilities**

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

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Architect License No. A-2009027279

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Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

Section Details -
Foundation

N-A300

BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

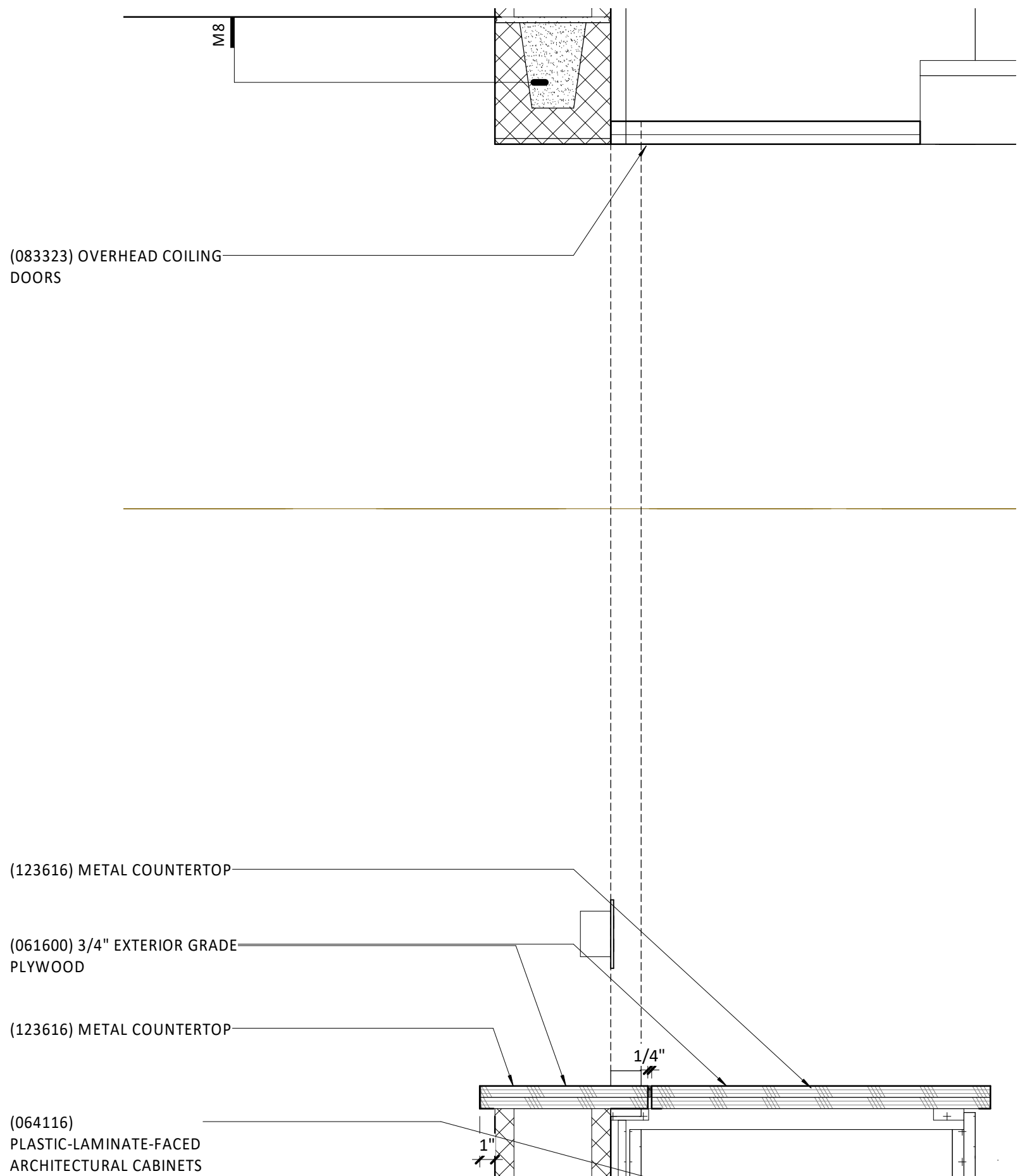
owner:
Lee's Summit R-7 School District
301 NE Tudor Road
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architect:
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Kansas City, MO 64111
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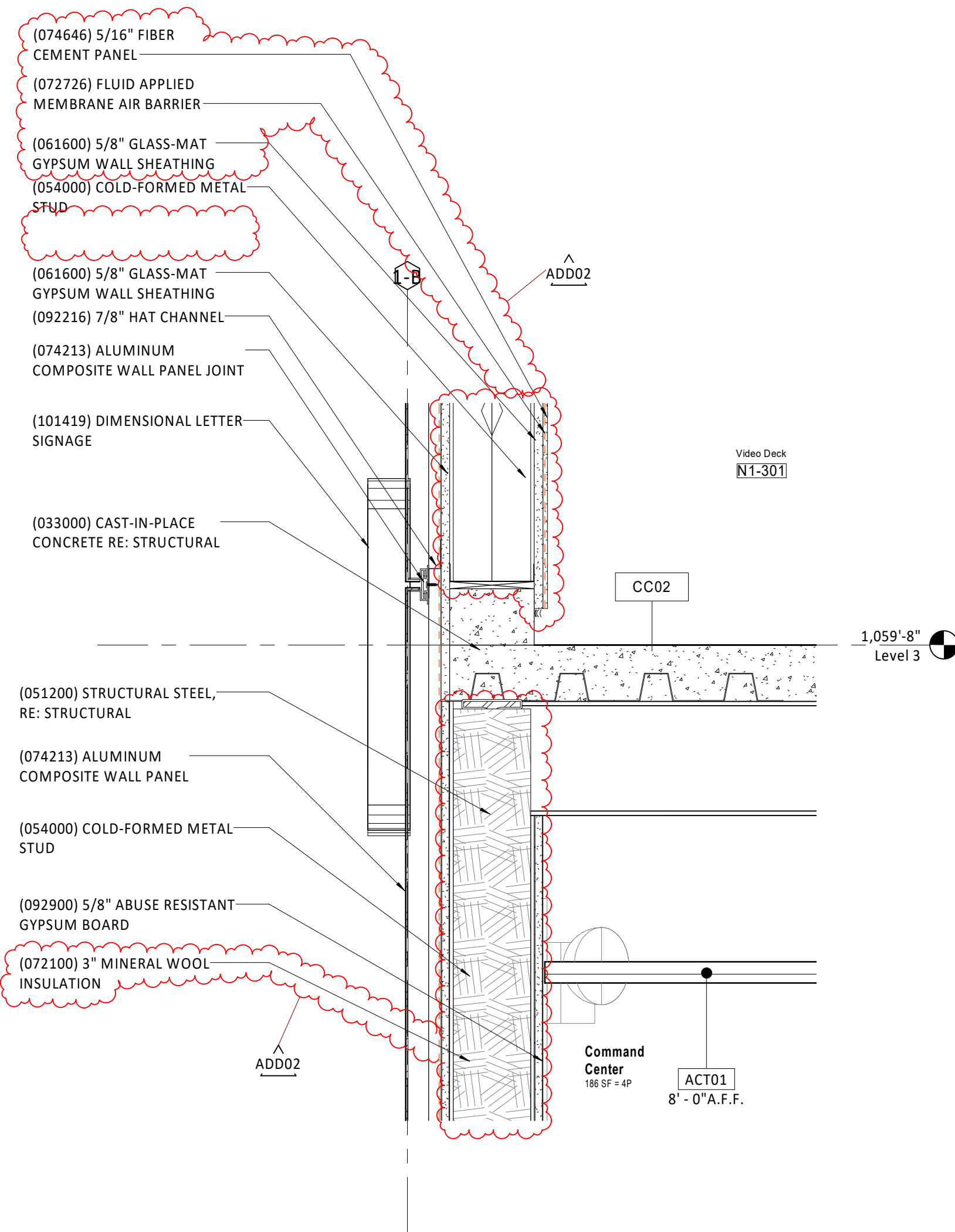
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Kansas City, MO 64111
816.331.4144

civil engineer:
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Lenexa, KS 66215
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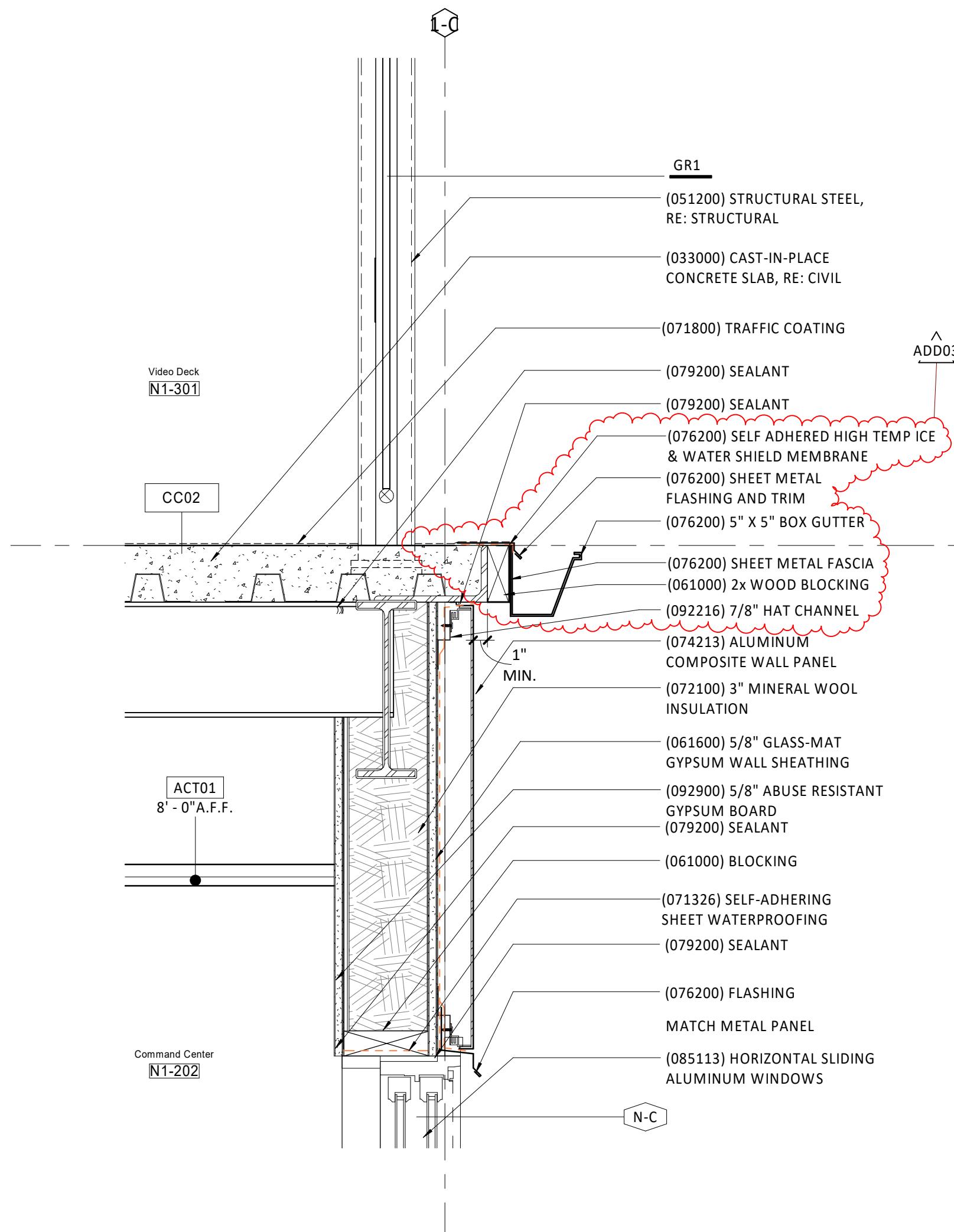
mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.2000



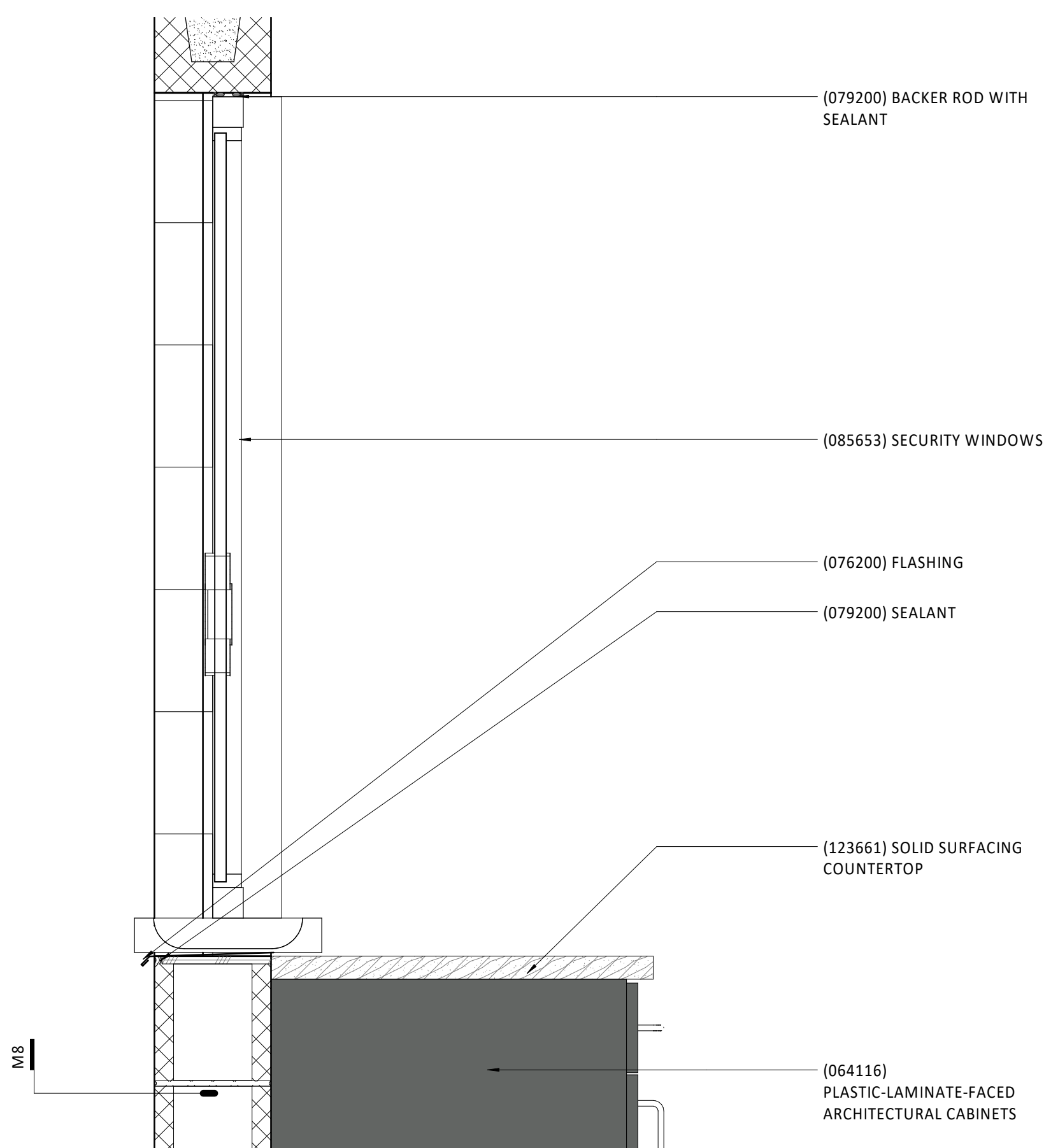
Section Detail - Concessions - Rolling Counter Window H11
1 1/2" = 1'-0"



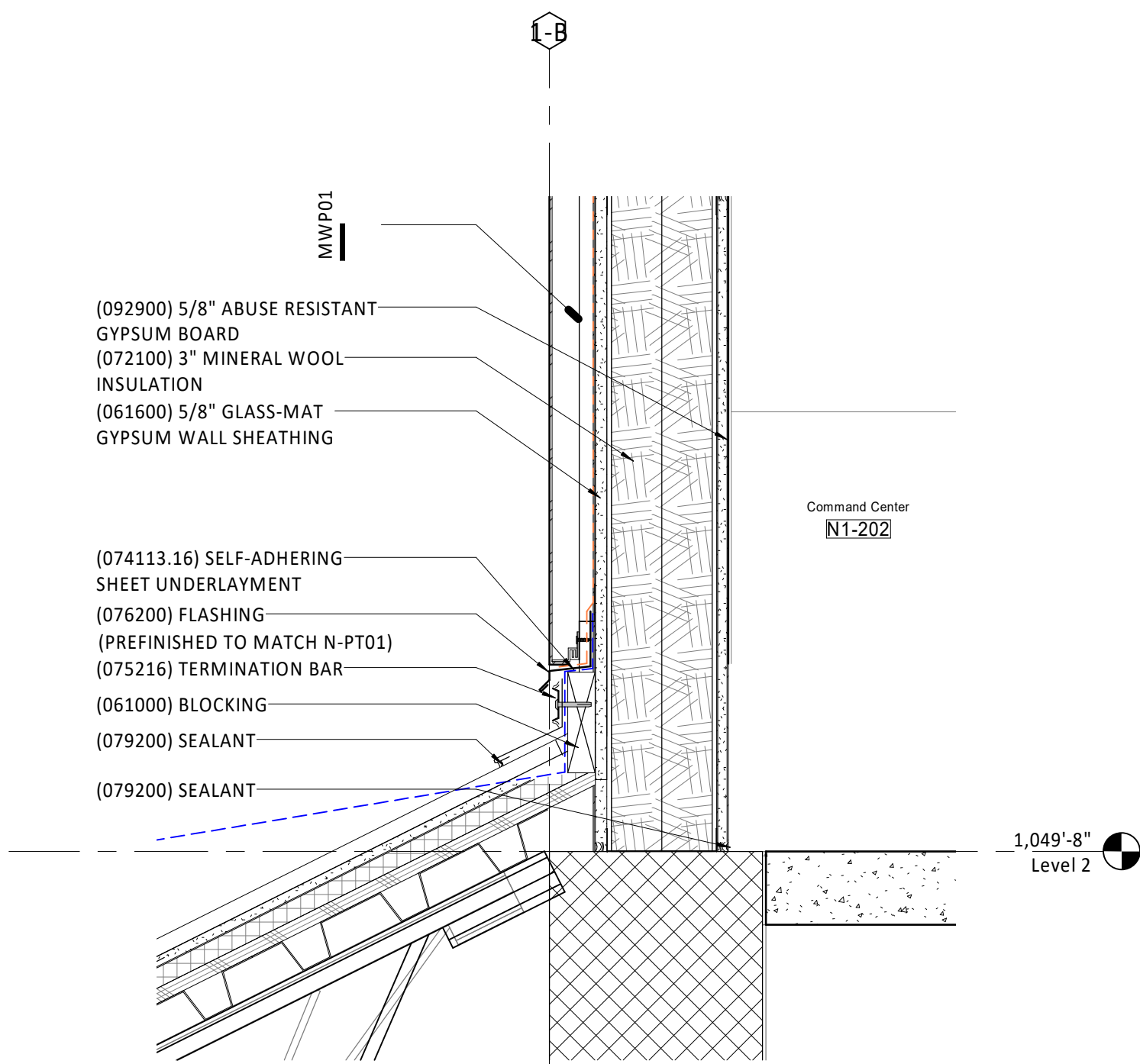
Detail Section - Press Box West Wall @ Video Deck G6
1 1/2" = 1'-0"



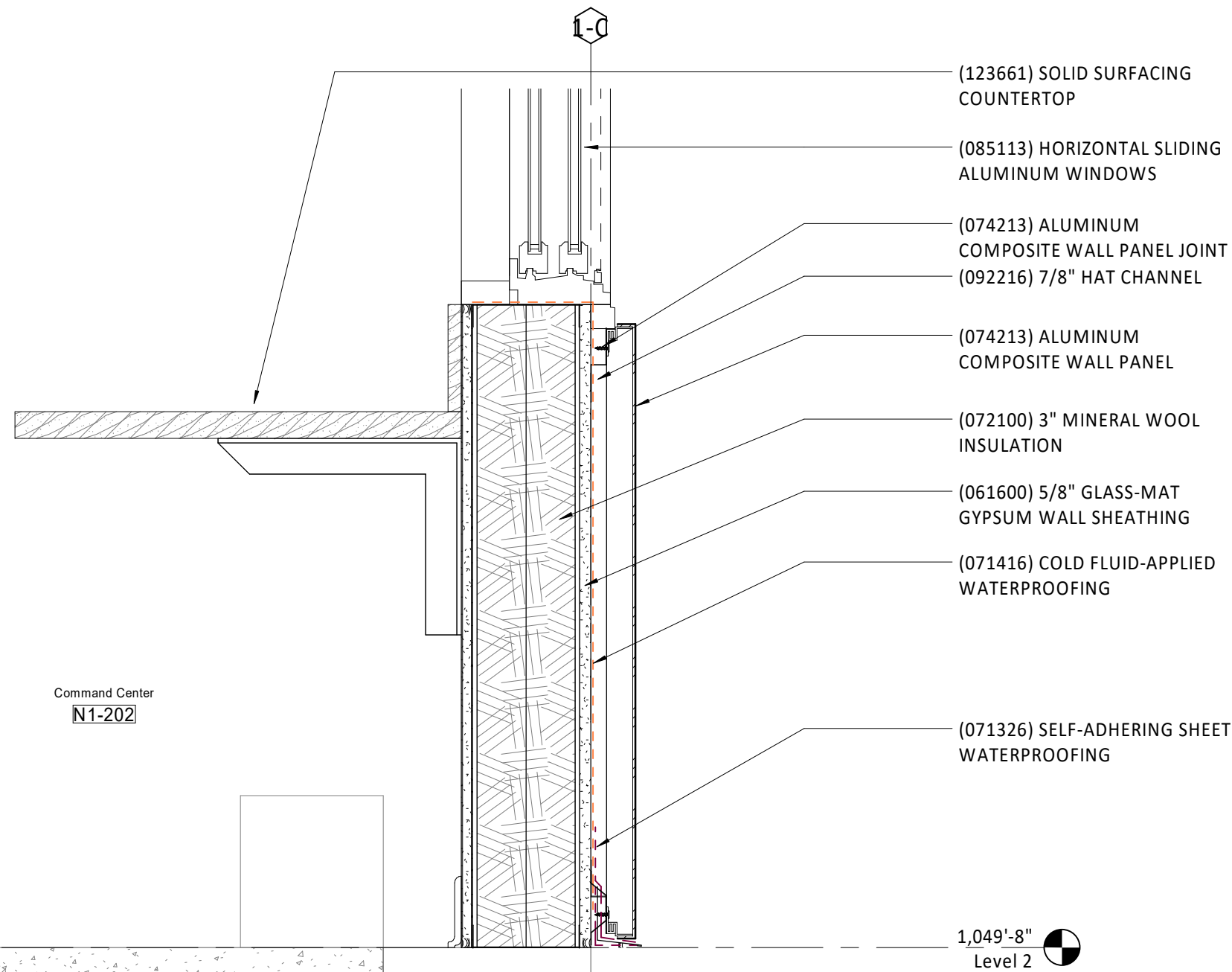
Detail Section - Press Box Window Head G1
1 1/2" = 1'-0"



Section Detail - Ticket Booth - Window A11
1 1/2" = 1'-0"



Detail Section - Press Box West Wall @ Command Center A6
1 1/2" = 1'-0"



Detail Section - Press Box Window Sill A1
1 1/2" = 1'-0"

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Jay Darren Browning Date: 11/03/2020
Architect License No. A-2009027279

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ADD02	ADDENDUM 02	10/10/2020
ADD03	ADDENDUM 03	10/23/2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

Section Details -
Intermediate

N-A310

BID SET

Lee's Summit R7 District
Athletics Facilities

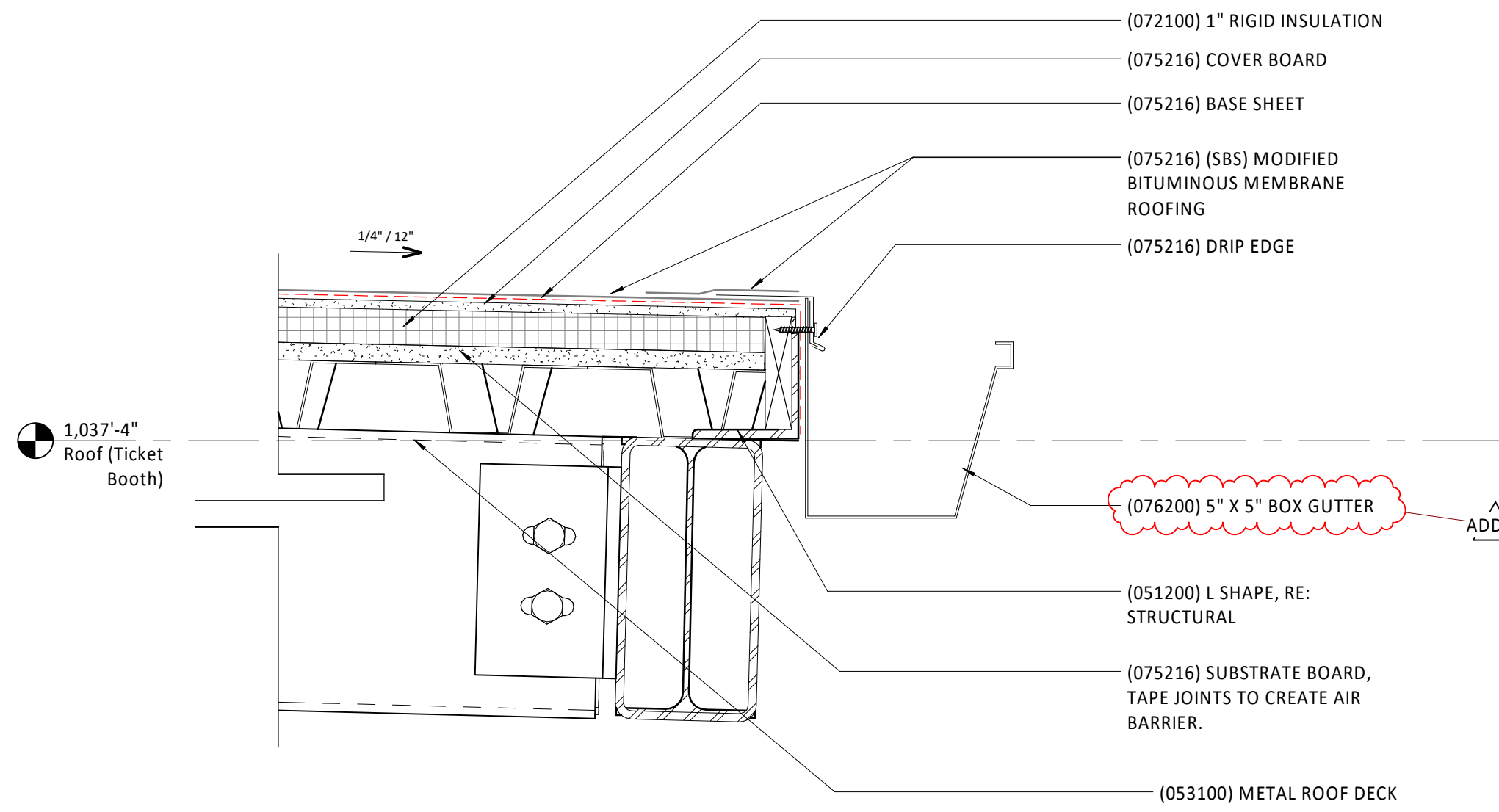
Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

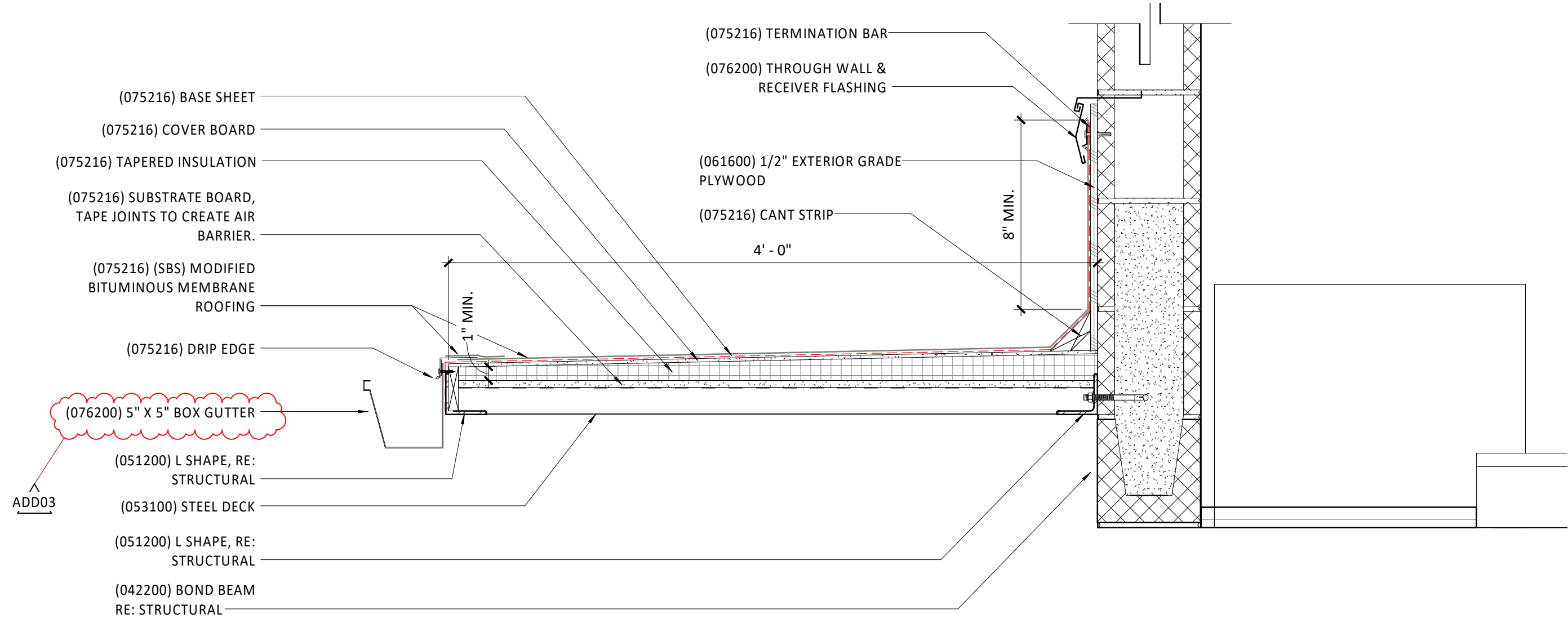
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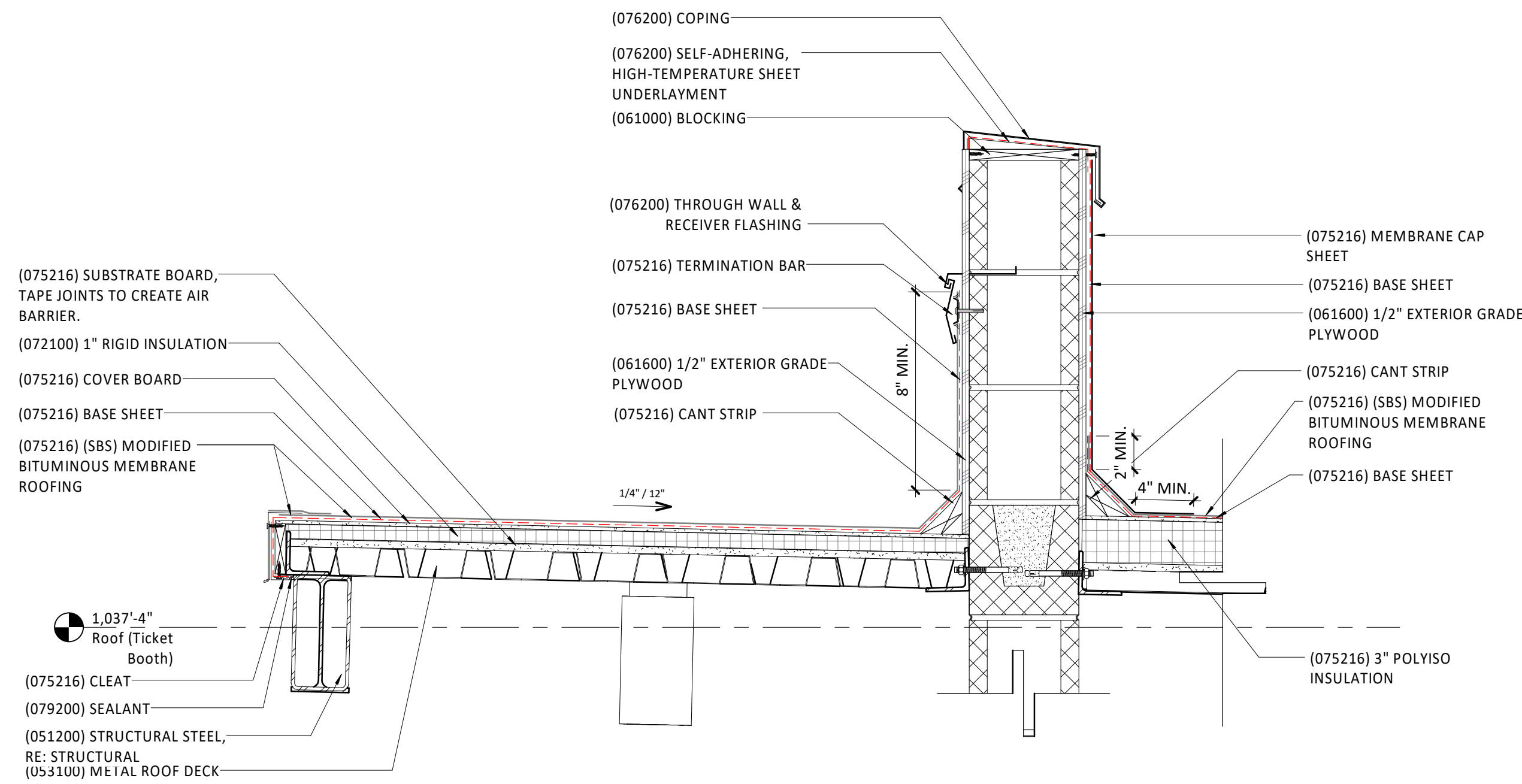
mechanical/electrical engineer:
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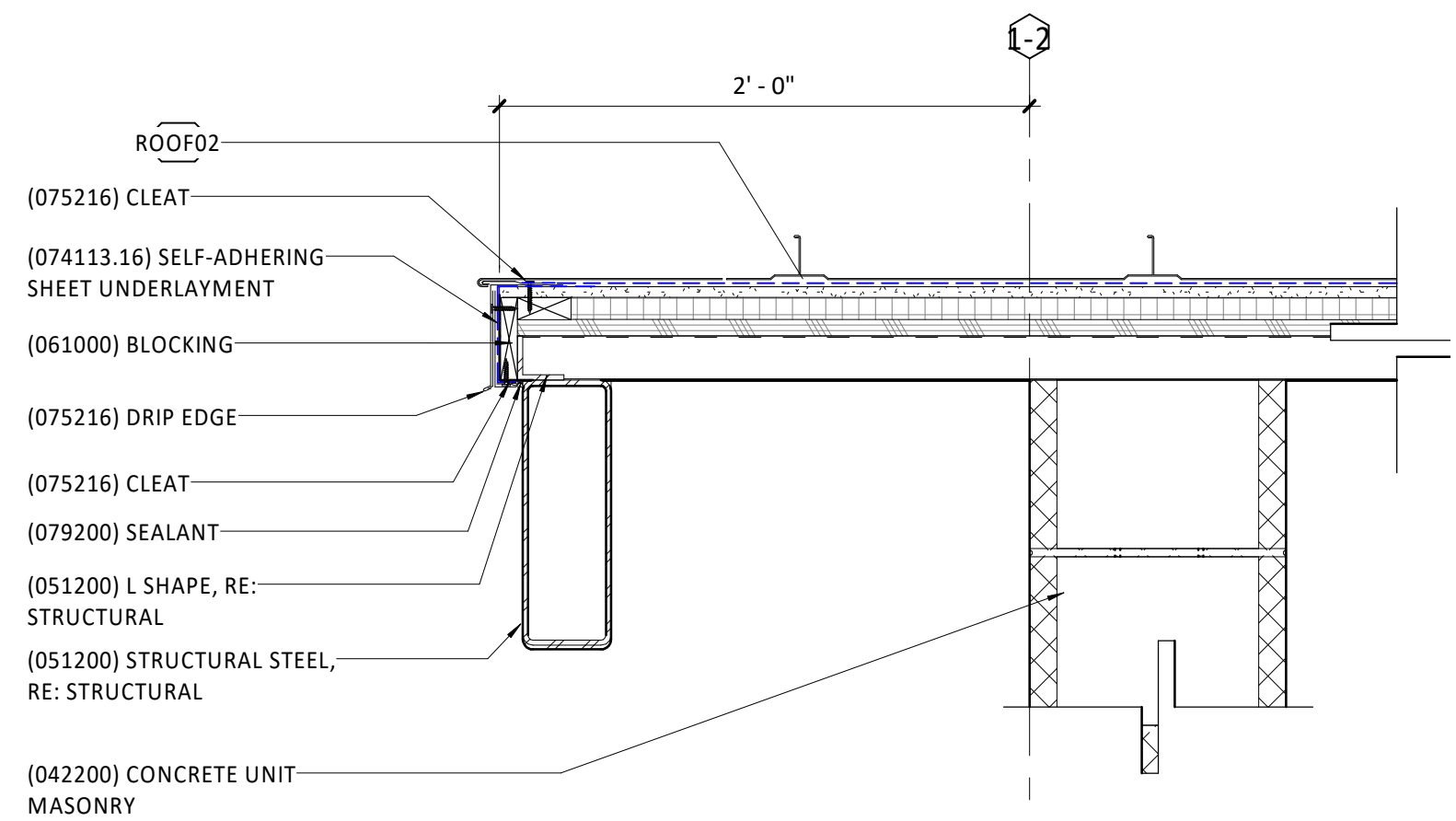
Section Detail - Gutter - Ticket Booth K9
3" = 1'-0"



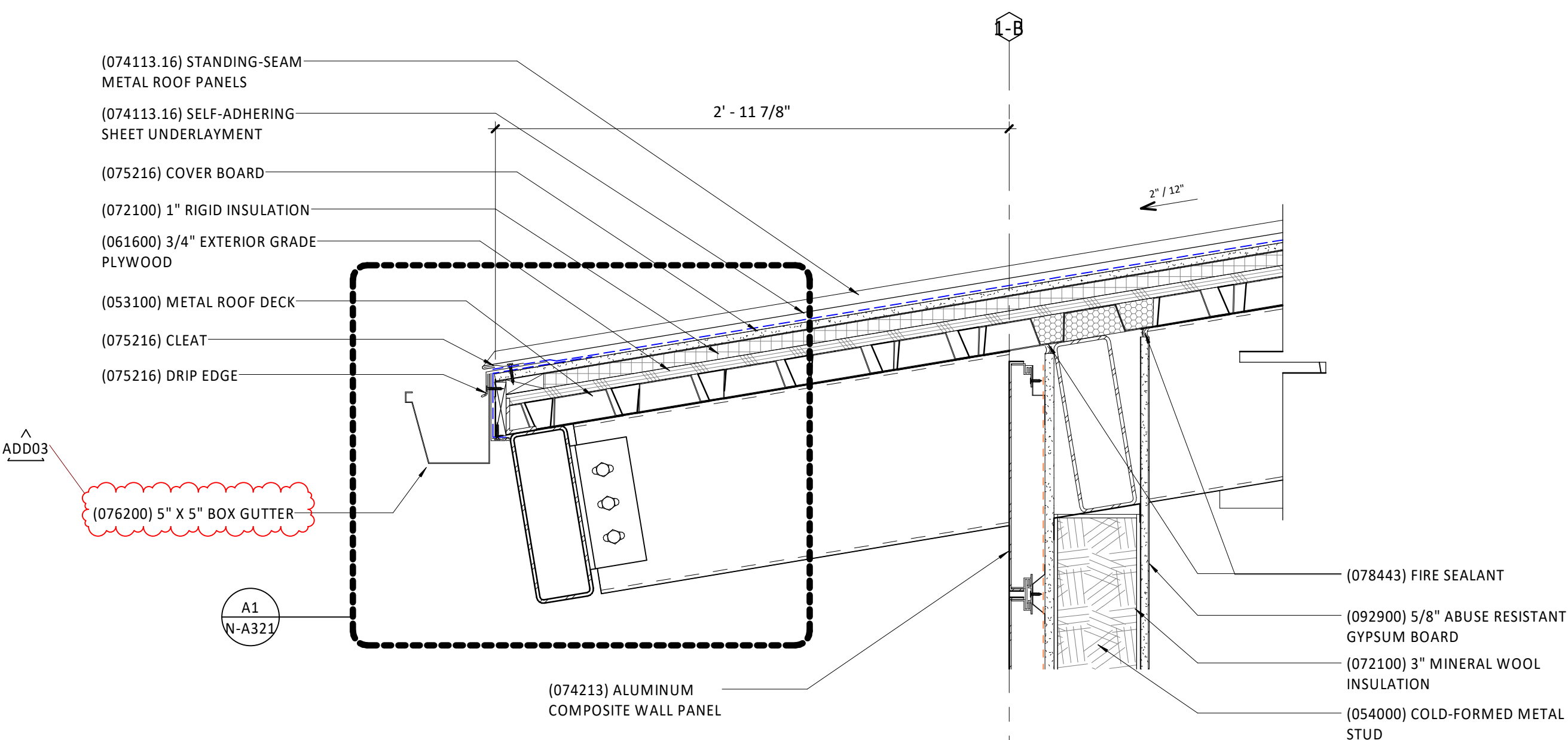
Section Detail - Rolling Counter Head - Concessions K1
1 1/2" = 1'-0"



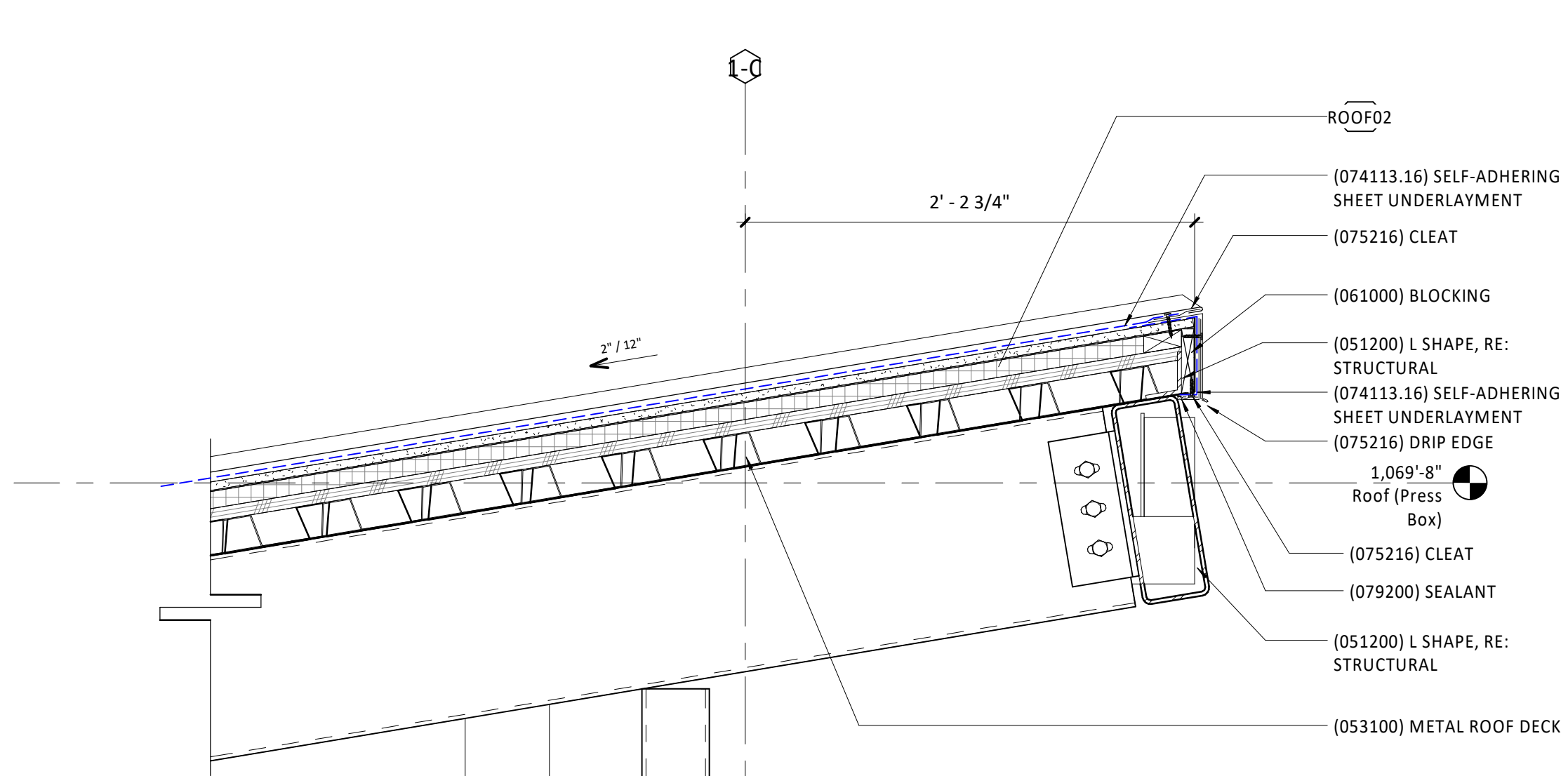
Section Detail - Canopy @ Ticket Booth E9
1 1/2" = 1'-0"



Section Detail - North Eave @ Video Deck E1
1 1/2" = 1'-0"



Section Detail - West Eave @ Video Deck A9
1 1/2" = 1'-0"



Section Detail - East Eave @ Video Deck A1
1 1/2" = 1'-0"

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REVISIONS		
Number	DESCRIPTION	DATE
ADD03	ADDENDUM 03	10/13/2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

Section Details - Roof

N-A320

BID SET

Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

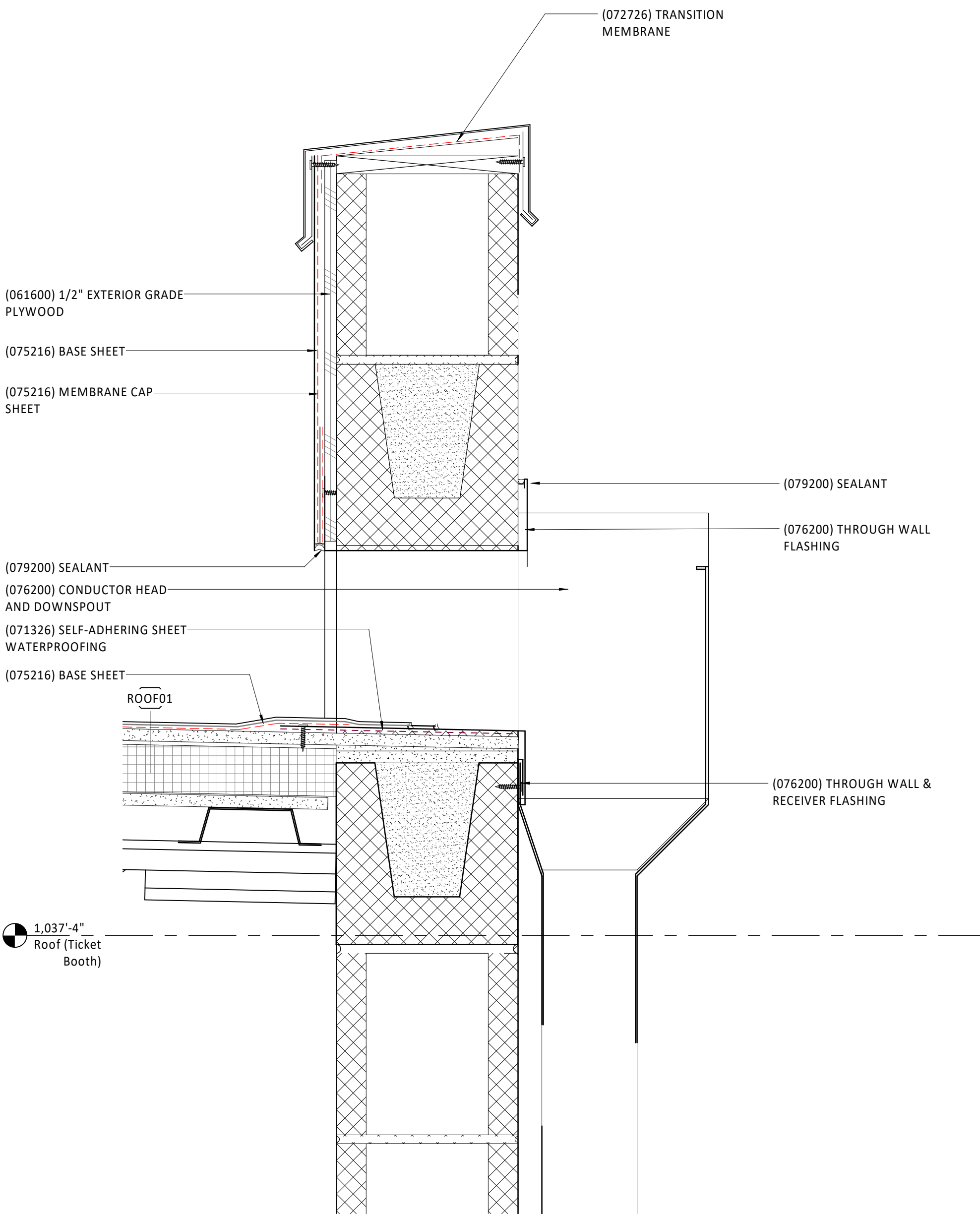
owner:
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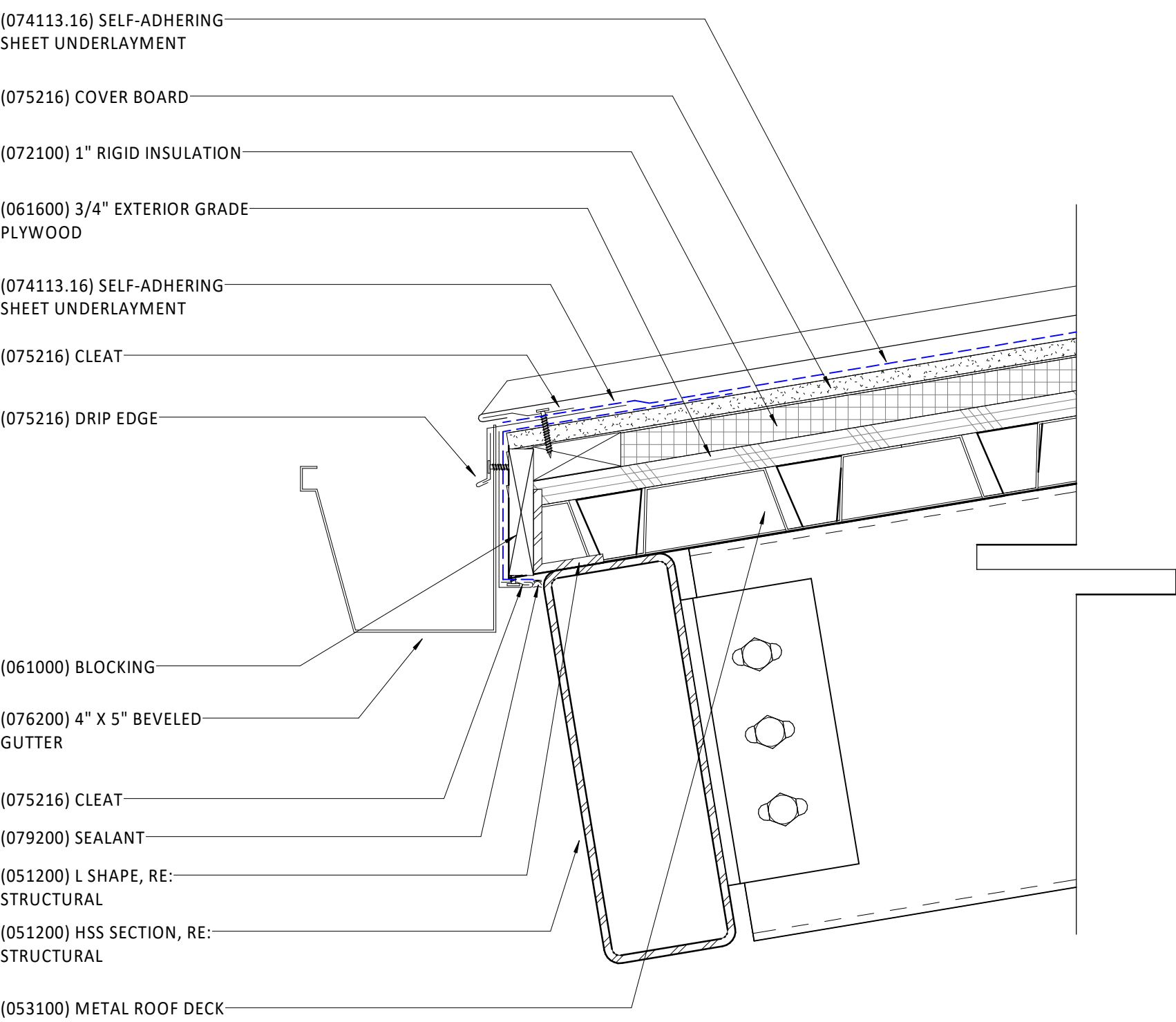
structural engineer:
Bob D. Campbell & Company, Inc.
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civil engineer:
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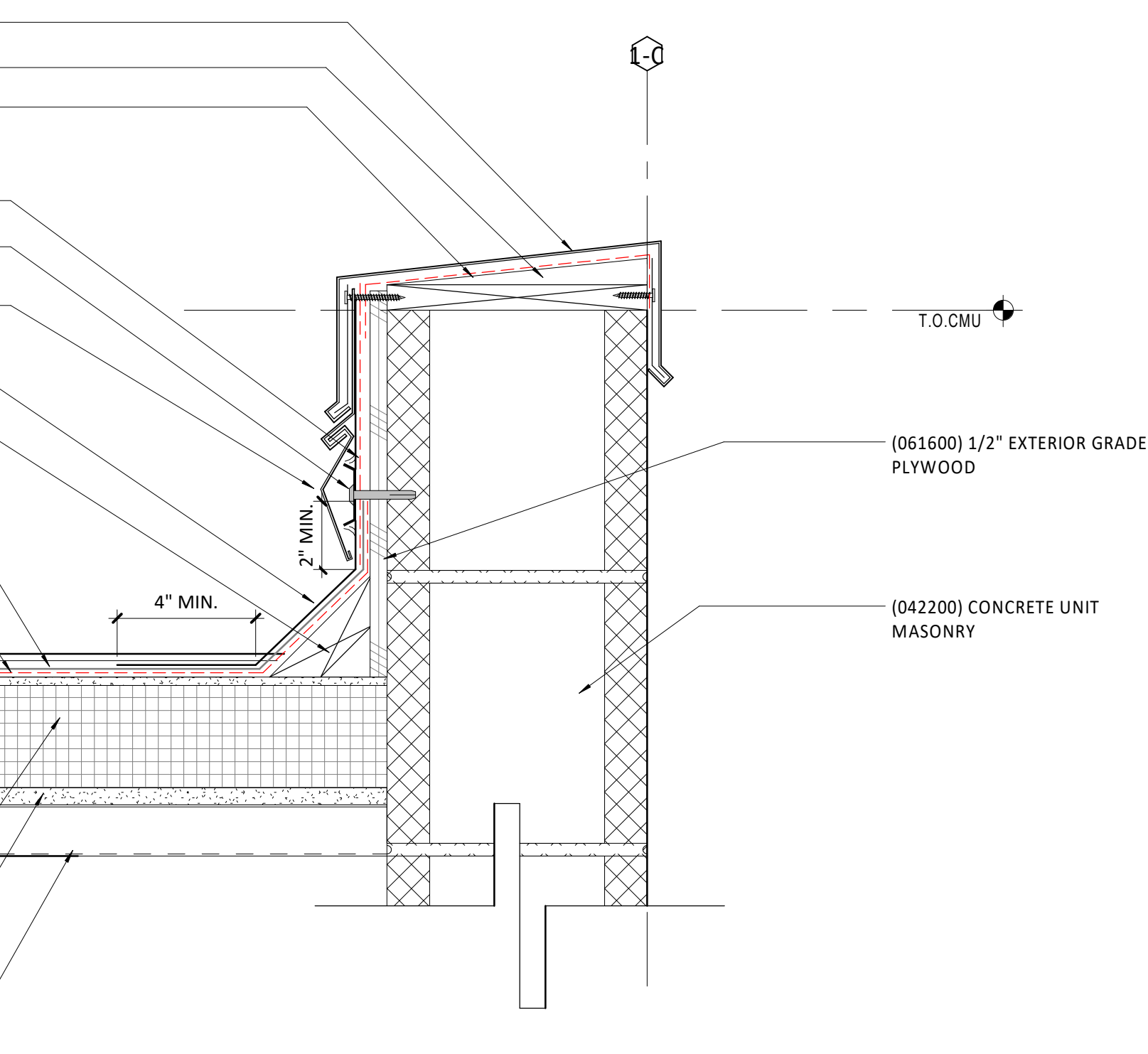
mechanical/electrical engineer:
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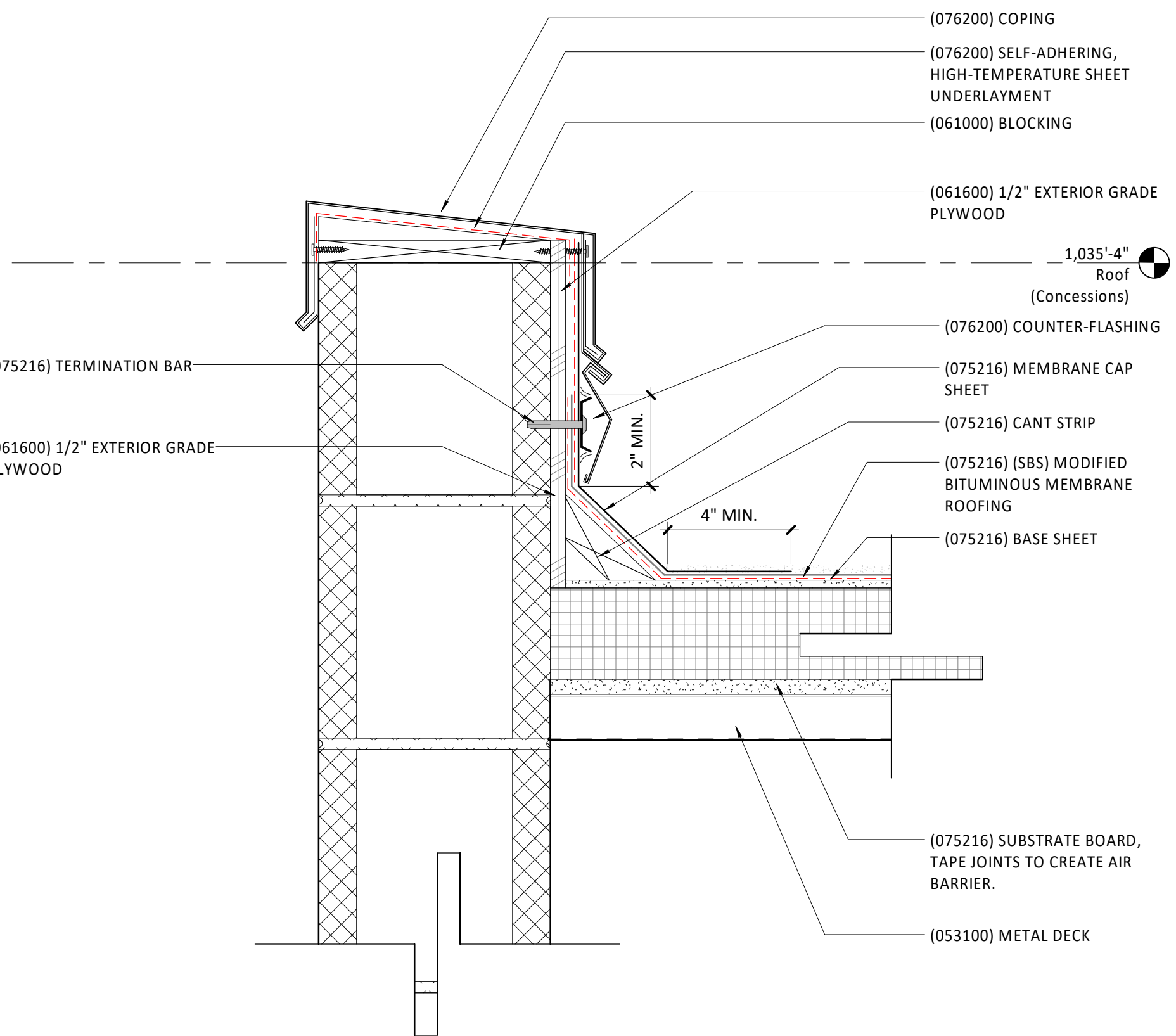
Section Detail - Through Wall Scupper @ Parapet, Typ G1
3" = 1'-0"



Detail @ Standing Seam Eave, Typ. A1
3" = 1'-0"

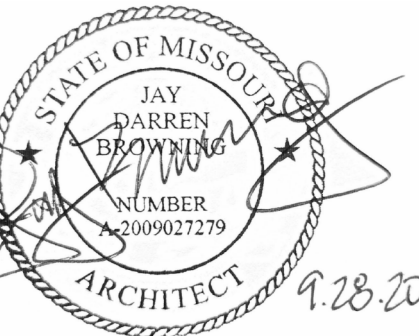


Section Detail - Press Box Core @ Parapet, Typ. A7
3" = 1'-0"



Section Detail - Concessions @ Parapet, Typ. A13
3" = 1'-0"

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Jay Darren Browning, Architect
Date: 09/28/2020
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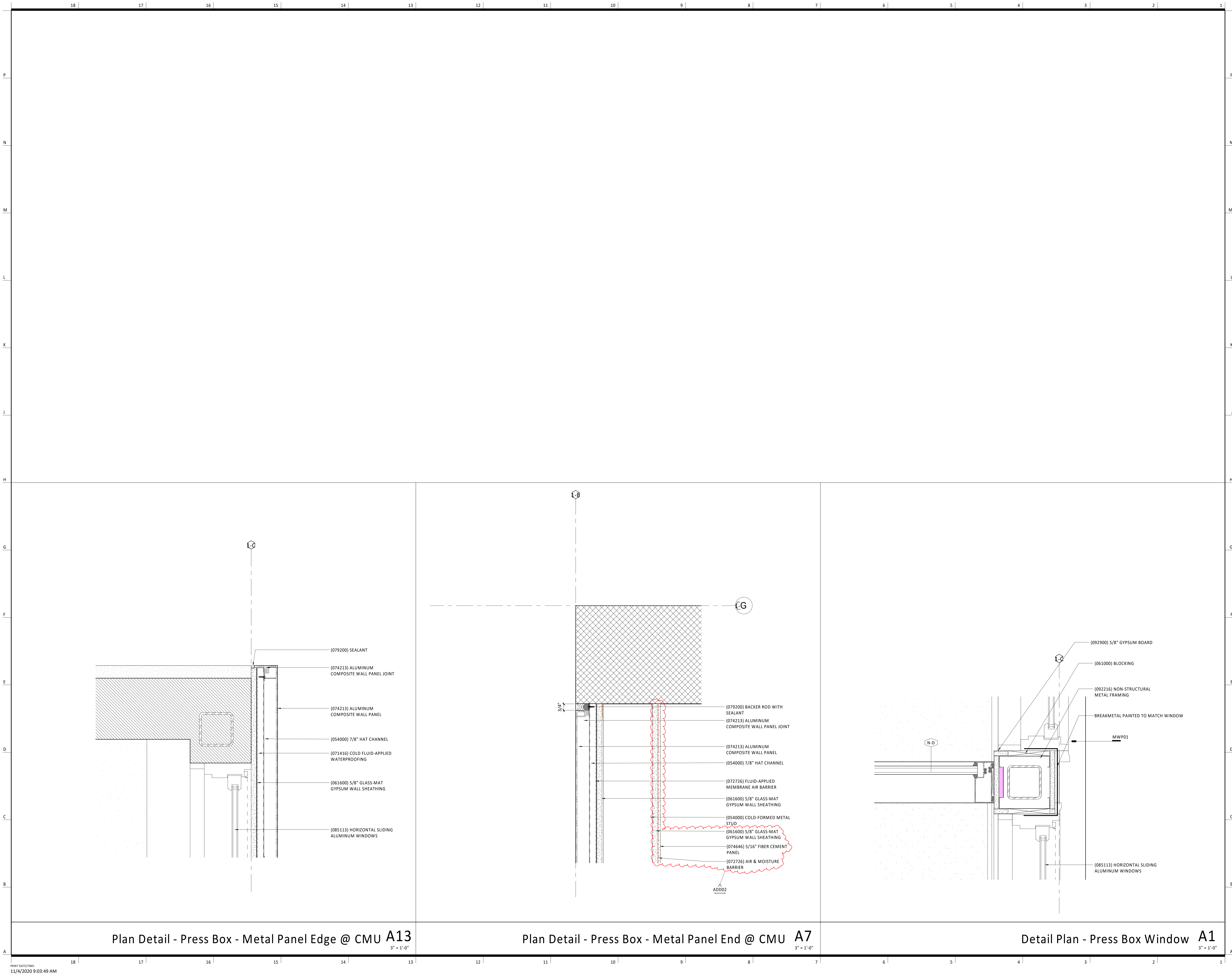
Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

Section Details - Roof

N-A321

BID SET



Lee's Summit R7 District
Athletics Facilities

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Lee's Summit, MO 64086

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14700 West 114th Terrace
Lenexa, KS 66215
913.485.0318

mechanical/electrical engineer:
Henderson Engineers
8345 Lenexa Drive | Suite 300
Lenexa, KS 66214
816.742.5000

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CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION



Architectural Corporation
Missouri License No. 2018022991
Jay Darren Browning
Architect License No. A-2009027279

REVISIONS		
Number	DESCRIPTION	DATE
ADD02	ADDENDUM 02	10/30/2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

Exterior Plan Details

N-A330

BID SET

1. ALL CASEWORK IS TO BE CONSTRUCTED TO MEET OR EXCEED ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS.
2. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
3. PROVIDE RUBBER BEE AT ALL CABINET BASES, UNLESS NOTED OTHERWISE.
4. REFER TO EXTERIOR ELEVATIONS AND FINISH SCHEDULE FOR SPECIFIC MATERIAL LOCATIONS.
5. PROVIDE MOISTURE RESISTANT PLYWOOD ON COUNTERTOPS WITH SINKS.
6. SINKS SHOWN ON THESE DRAWINGS INDICATE LOCATIONS ONLY AND MAY NOTE REFLECT ACTUAL SIZES OR TYPES.
7. COORDINATE LOCATIONS OF ALL EQUIPMENT AND CONFIRM PROPER CLEARANCES. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
8. CENTER ALL SINKS IN THE ASSOCIATED CASEWORK, UNLESS NOTED OTHERWISE.
9. PROVIDE SIDE SPLASH WHERE COUNTERTOP ABUTS WALL OR AT COUNTERTOPS WITH DIFFERENT HEIGHTS ABUT.
10. SEAL ALL JOINTS BETWEEN WORK SURFACES/CABINETS AND ADJOINING SURFACES.
11. PROVIDE IN WALL BLOCKING AS REQUIRED FOR UPPER CABINETS.
12. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
13. COORDINATE LOCATIONS OF DROWMETS IN COUNTERTOPS WITH OWNER/ARCHITECT.
14. PROVIDE FINISHED CLOSURE PANELS AT EXPOSED END CONDITIONS.
15. PROVIDE FILLER PANELS/SCRIBE AT ALL LOCATIONS WHERE CASEWORK MEETS A WALL.
16. PROVIDE LOCKS AT ALL CABINET DOORS. FINAL LOCK COORDINATION WILL BE DONE BY OWNER/ARCHITECT DURING SHOP DRAWING PROCESS.
17. ALL PENETRATIONS THROUGH CASEWORK SHALL BE SEALED OR COVERED WITH AN ESCUTCHEON.

B	BASE CABINET	U	UPPER CABINET
BS	BASE SCRIBE	US	UPPER SCRIBE
T	TALL CABINET		

Diagram illustrating the components and specifications of a cabinet:

- SIDESPLASH
- BACKSPLASH
- COUNTERTOP
- CABINET HARDWARE
- CABINET DOOR SWING
- ADJUSTABLE SHELF
- TOE-KICK

Below the cabinet, a box contains the following information:

- 8222 (CABINET GROUP)
- 36, 32, 5, 24 (CABINET SIZE W,H,D (IN INCHES))

12" = 1'-0"

$$1\frac{1}{2}'' = 1'-0''$$

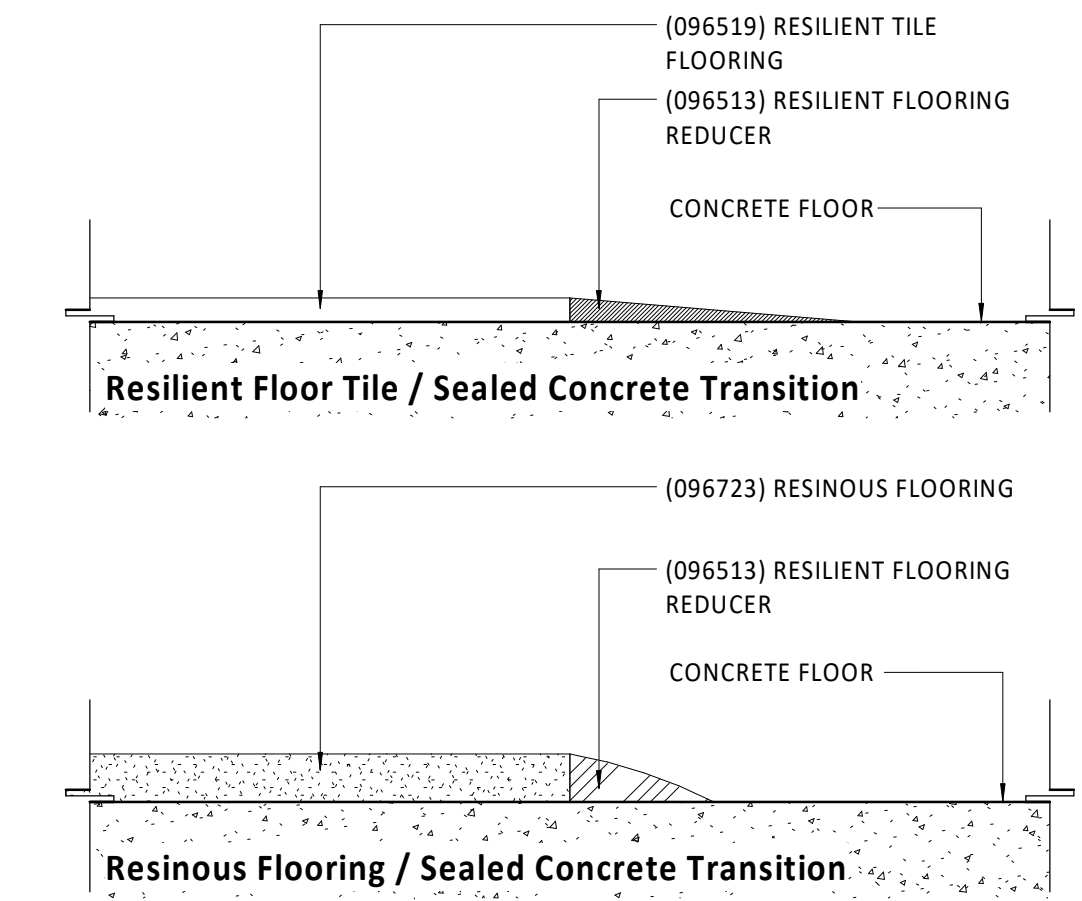
r D3

A3

REVISIONS		
Number	DESCRIPTION	DATE

BID SET

LSN - Finish Schedule						
Room Number	Room Name	Finish				Comments
		Floor	Base	Wall	Celling	
Level 1 (Concessions)						
N5-101	CONCESSIONS	CC01	-	N-PT05	ATC02	
N5-102	MEP	CC01	-		ATC01	
N5-103	Women's RR	-	-	N-PT05	ATC01	
N5-104	Men's RR	-	-	N-PT05	ATC01	
Level 1						
N1-100	Mechanical	-	-	N-PT05	ACT01	
N1-104	Storage	CC01	-	-	ACT01	
N1-105	Vestibule	CC01	RB01	N-PT05	OTS	
N1-106	Elevator	-	-	-	OTS	
N1-107	Stair	CC01	-	N-PT05	OTS	
N1-108	Storage	-	-	N-PT05	OTS	
N3-101	Ticket Booth - North	CC01	-	N-PT05	ACT01	
N4-101	Ticket Booth - South	CC01	-	N-PT05	ACT01	
N5-112	Men's Restrooms	CC01	-	N-PT05	ACT01	
Level 2						
N1-201	Visitor Coach	-	RB01	N-PT05	ACT01	
N1-202	Command Center	-	RB01	N-PT05	ACT01	
N1-203	Home Coach	-	RB01	N-PT05	ACT01	
N1-205	Vestibule	CC01	RB01	N-PT05	ACT01	
N1-206	Elevator	CC01	-	-		
N1-207	Stairs	CC01	-	N-PT05	OTS	
Level 3						
N1-301	Video Deck	CC02	RB01	N-PT01	OTS	STEEL DECK TO BE PAINTED N-PT03, STRUCTURE TO BE PAINTED N-PT02
N1-306	Elevator	--	-	-	OTS	
N1-307	Stair	CC01	-	N-PT05	OTS	



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- STATE OF MISSOURI
JAY DARREN BROWNING
NUMBER
2009027279
ARCHITECT
- 11.3.20
- Architectural Corporation
Missouri License No. 2018022991
Jay Darren Browning Date: 11/03/2020
Architect License No. A-2009027279
- REVISIONS**
- | Number | DESCRIPTION | DATE |
|--------|-------------------------|----------|
| CCB01 | Code Comment Response 1 | 10/28/20 |

Signage Schedule				
Room Number	Room Name	Type Mark	Type Comments	Signage Text
Level 1 (Concessions)				
N5-101	CONCESSIONS	A	Room ID (Basic)	Concessions
N5-103	Women's RR	A	Room ID (Basic)	Women's Restroom
N5-104	Men's RR	A	Room ID (Basic)	Men's Restroom
Level 1				
N1-101	Women's RR	R2	Restroom - Women	Women's Restroom
N1-101	Women's RR	R2	Restroom - Women	Women's Restroom
N1-102	Electrical	A	Room ID (Basic)	Electrical
N1-103	Concession	A	Room ID (Basic)	Concessions
N1-105	Vestibule	A	Room ID (Basic)	Elevator Vestibule
N1-107	Stair	E	Exit Stair	Level 1 Stair
N1-109	Men's	R1	Restroom - Men	Men's Restroom
N1-109	Men's	R1	Restroom - Men	Men's Restroom
Level 2				
N1-201	Visitor Coach	A	Room ID (Basic)	Visitor Coach
N1-201	Visitor Coach	A	Room ID (Basic)	Visitor Coach
N1-201	Visitor Coach	E	Exit Stair	Level 2 Stair
N1-202	Command Center	A	Room ID (Basic)	Command Center
N1-202	Command Center	A	Room ID (Basic)	Command Center
N1-203	Home Coach	A	Room ID (Basic)	Home Coach
N1-203	Home Coach	A	Room ID (Basic)	Home Coach
N1-203	Home Coach	E	Exit Stair	Home Coach
N1-205	Vestibule	F	In Case of Fire...	In Case of Fire Do Not Use Elevator, Use Stairs
N1-207	Stairs	E	Exit Stair	Level 2 Stair
Level 3				
N1-301	Video Deck	F	In Case of Fire...	In Case of Fire Do Not Use Elevator, Use Stairs
N1-301	Video Deck	A	Room ID (Basic)	Video Deck
N1-307	Stair	E	Exit Stair	Level 3 Stair

Architectural elevation drawing of the Home of the Broncos building. The drawing shows a multi-story structure with a brick facade, a sign that reads "HOME OF THE BRONCOS", and various windows and doors. Annotations include grid lines (1-6, 1-3, 1-2, 1-1), level markers (Level 1, Level 2, Level 3), and dimensions (1,069'-8" Roof (Press Box), 1,059'-8" Level 3, 1,049'-8" Level 2, 1,039'-4" JST BRG, 1,028'-0" Level 1). Specific window and door labels include N1-107, N1-105, N-PT02, and (301419) DIMENSIONAL LETTER SIGNAGE 24" LETTERS.

(101419) DIMENSIONAL LETTER SIGNAGE

15'-0"

2'-0"

4'-0"

BRONCO STADIUM

15'-0"

1,069'-8"
Roof (Press Box)

VINYL LINEN BRONCO LOGO
ON METAL SUBSTRATE

1,059'-8"
Level 3

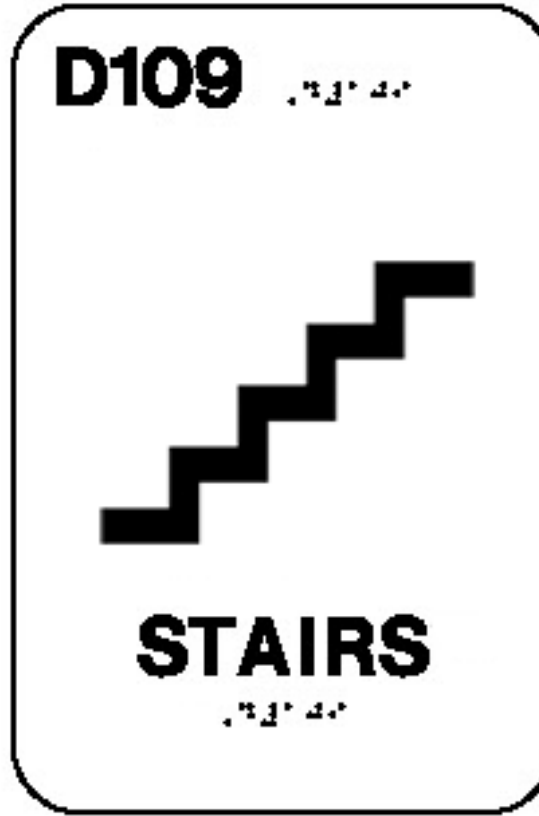
1,049'-8"
Level 2

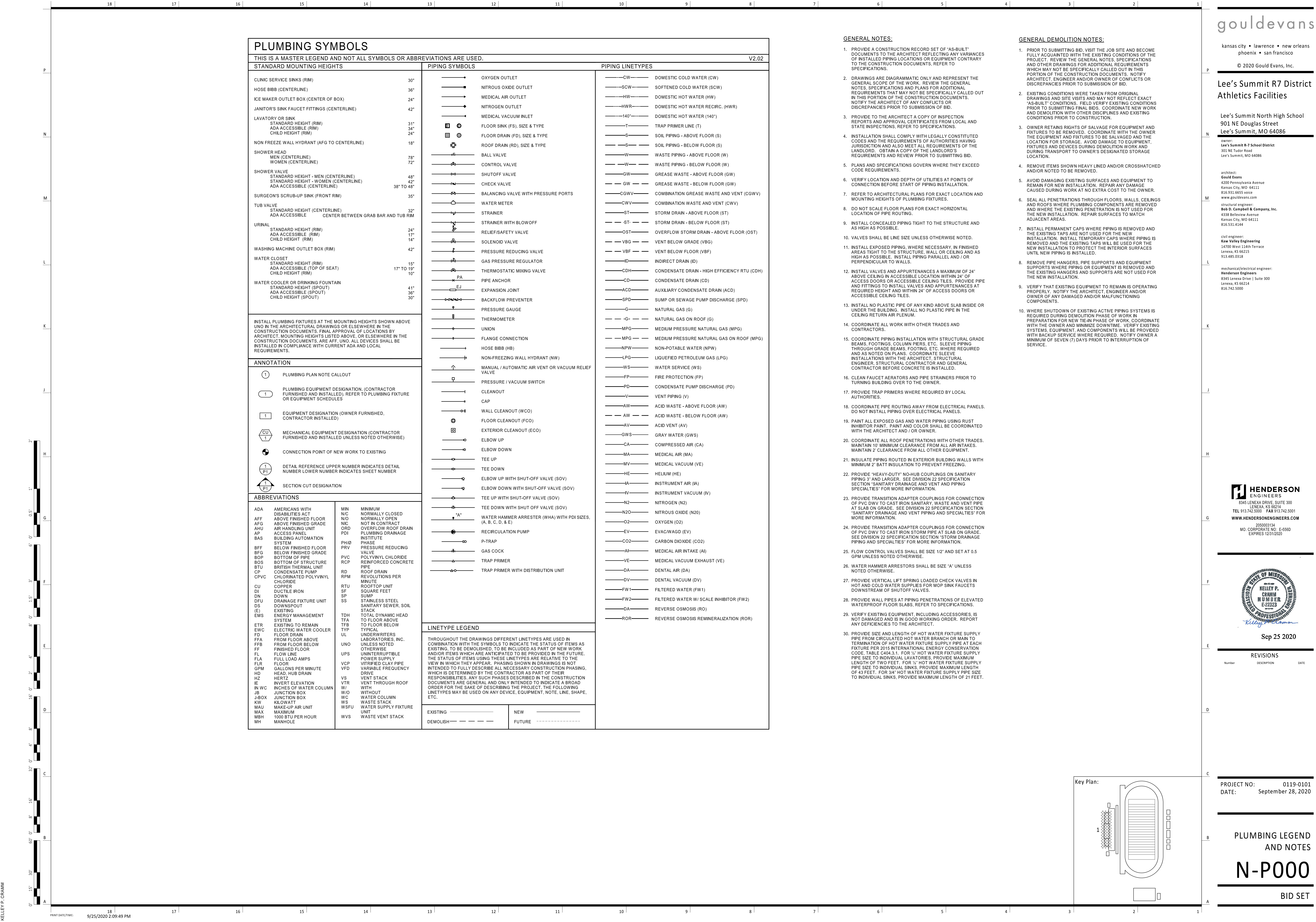
1,039'-4"
JST BRG

1,028'-0"
Level 1

BID SET

- ### General Notes (Signage):
1. THE ENVIRONMENTAL GRAPHICS PACKAGE CONSISTS OF THE FOLLOWING COMPONENTS: DETAIL DRAWINGS, SIGN LOCATION PLANS, SIGNAGE MESSAGE SCHEDULE, AND SPECIFICATION MANUAL.
 2. ALL SIGNS TO BE FABRICATED AND INSTALLED TO COMPLY WITH LOCAL BUILDING CODES, ADAAG, AND ANS I 37.1.
 3. FABRICATOR TO REVIEW THE STRUCTURAL, MECHANICAL, AND ARCHITECTURAL DRAWINGS AND SITE CONDITIONS TO VERIFY SIZES AND LOCATION OF SIGNAGE FABRICATED TO BE INSTALLED. ANY DISCREPANCIES AND/OR CONFLICTS SHALL BE REPORTED TO THE OWNER/ARCHITECT/GENERAL CONTRACTOR IN WRITING BEFORE PROCEEDING WITH FABRICATION. APPROVAL MUST BE OBTAINED.
 4. FABRICATOR SHALL SUBMIT FULLY DETAILED WORKING (SHOP/FABRICATION) DRAWINGS TO ARCHITECT/GENERAL CONTRACTOR FOR ALL SIGNS AND GRAPHICS CONTAINED IN THIS PACKAGE. DRAWING NO. SHALL BE REVIEWED AND SIGNED APPROVAL PRIOR TO FABRICATION OR ORDERING OF MATERIALS.
 5. ALL SIGNS ARE TO BE FABRICATED FROM MATERIALS SPECIFIED UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER/ARCHITECT. NO EXCEPTIONS.
 6. DRAWINGS CONTAINED IN THIS PACKAGE ARE FOR AESTHETIC AND FUNCTIONAL PURPOSES. INTENT ONLY. NO INSTRUCTIONS FOR STRUCTURAL APPROPRIATENESS HAVE BEEN MADE. IT IS THE RESPONSIBILITY OF THE SIGNAGE FABRICATOR TO ENSURE THAT ALL ELEMENTS ARE FABRICATED FOR A STABLE AND DURABLE INSTALLATION. BY ADHERING TO THE AESTHETIC DETAILS INDICATED.
 7. FABRICATOR IS RESPONSIBLE FOR DETERMINING PROPER MOUNTING METHODS FOR SIGNS UNLESS OTHERWISE SPECIFICALLY NOTED. ALL MOUNTING MATERIALS/TECHNIQUES TO BE APPROVED IN WRITING AND HAVE SIGNED APPROVAL PRIOR TO INSTALLATION.
 8. IF FASTENERS ARE TO BE CONCEALED UNLESS NOTED OTHERWISE.
 9. FABRICATOR TO COORDINATE THE INSTALLATION OF SITE SIGNAGE AND ASSOCIATED FOOTINGS WITH THE GENERAL CONTRACTOR FOR INSTALLATION OF THE SURROUNDING HARDCAPE.
 10. ALL TEXT SHOWN IN DETAIL DRAWINGS IS FOR REFERENCE ONLY. REFER TO SIGNAGE MESSAGE SCHEDULE FOR EXACT TEXT ON EACH SIGN.
 11. ALL ROOF IDENTIFICATION SIGNS SHALL BE MOUNTED 9 INCHES FROM THE CENTER OF THE SIGN TO THE LATCH SIDE OF DOOR FRAME.

 6"W x 9"H x 1/4" D 3/4" RADIUS CORNERS 5/8" HELVETICA TEXT & NUMBER	 6"W x 9"H x 1/4" D 3/4" RADIUS CORNERS 5/8" HELVETICA TEXT & NUMBER	 6"W x 9"H x 1/4" D 3/4" RADIUS CORNERS 5/8" HELVETICA TEXT & NUMBER
Restroom - Unisex R3 6" = 1'-0"	Restroom - Women R2 6" = 1'-0"	Restroom - Men R1 6" = 1'-0"
	 6"W x 9"H x 1/4" D 3/4" RADIUS CORNERS 5/8" HELVETICA NUMBER HELVETICA TEXT - TEXT SIZE TBD	 6"W x 9"H x 1/4" D 3/4" RADIUS CORNERS 5/8" HELVETICA TEXT & NUMBER
	In Case of Fire F 6" = 1'-0"	Exit Stair E 6" = 1'-0"
		 6"W x 9"H x 1/4" D 3/4" RADIUS CORNERS 5/8" HELVETICA TEXT & NUMBER
		Room ID (Standard) A 6" = 1'-0"



Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.gouldevans.com

structural engineer:
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285003134
MO. CORPORATE NO. E-556D
EXPIRES 12/31/2020



Nov 6 2020

REVISIONS

NUMBER	DESCRIPTION	DATE
1	Addendum 3	10.23.2020
2	Addendum 4	10.26.2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

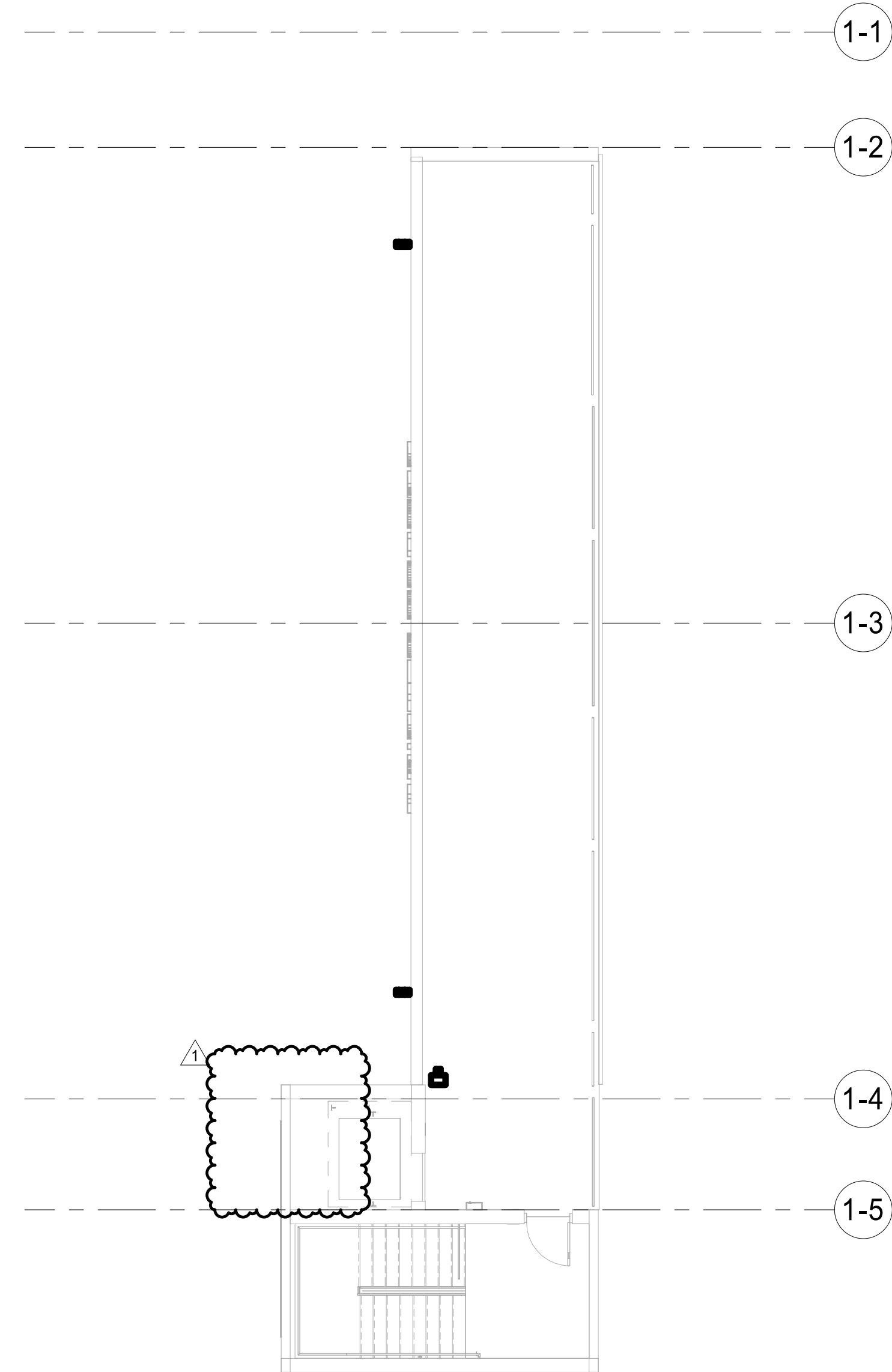
PRESS BOX -
PLUMBING PLANS

N-P111

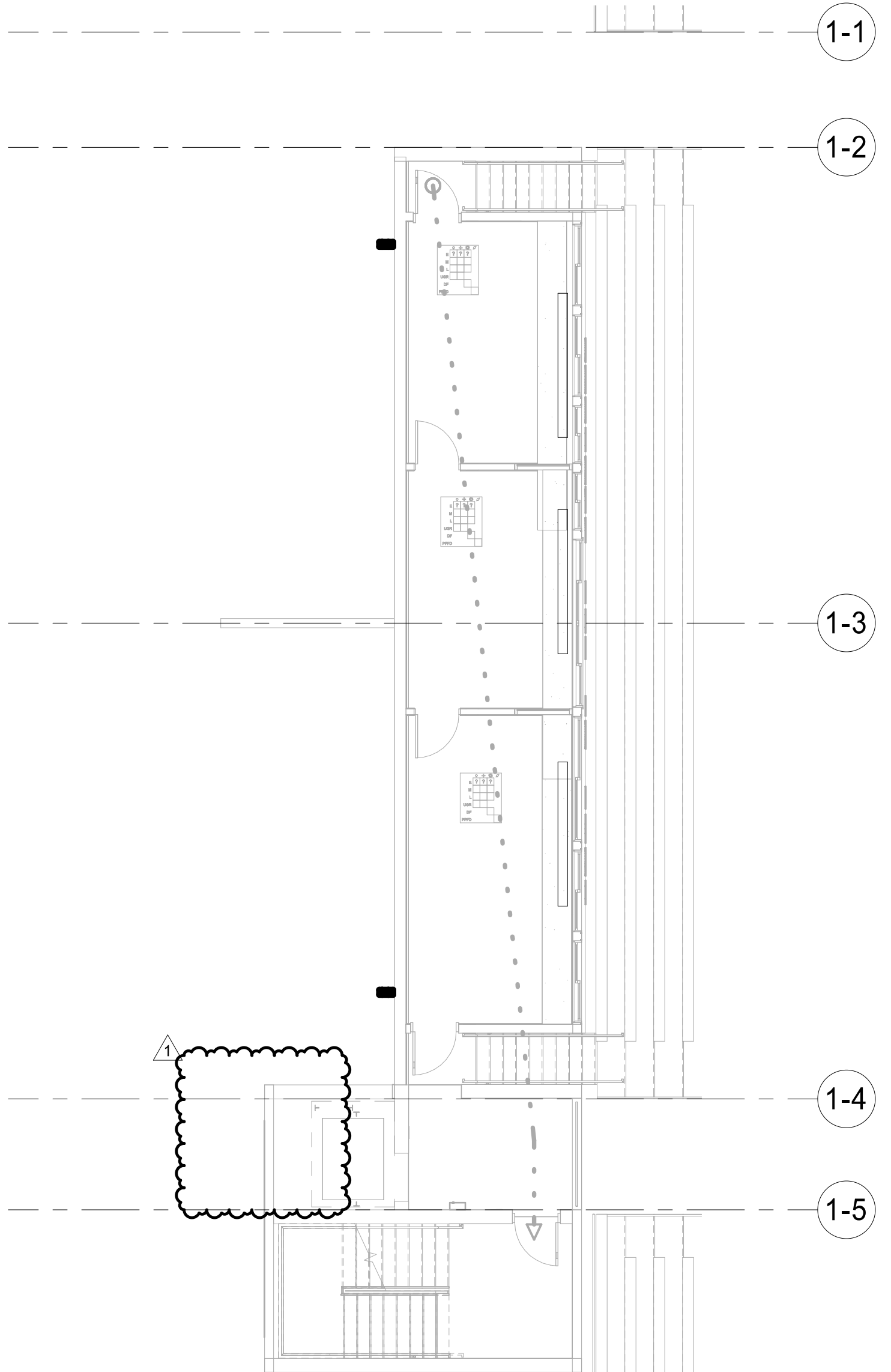
BID SET

PLUMBING PLAN NOTES:

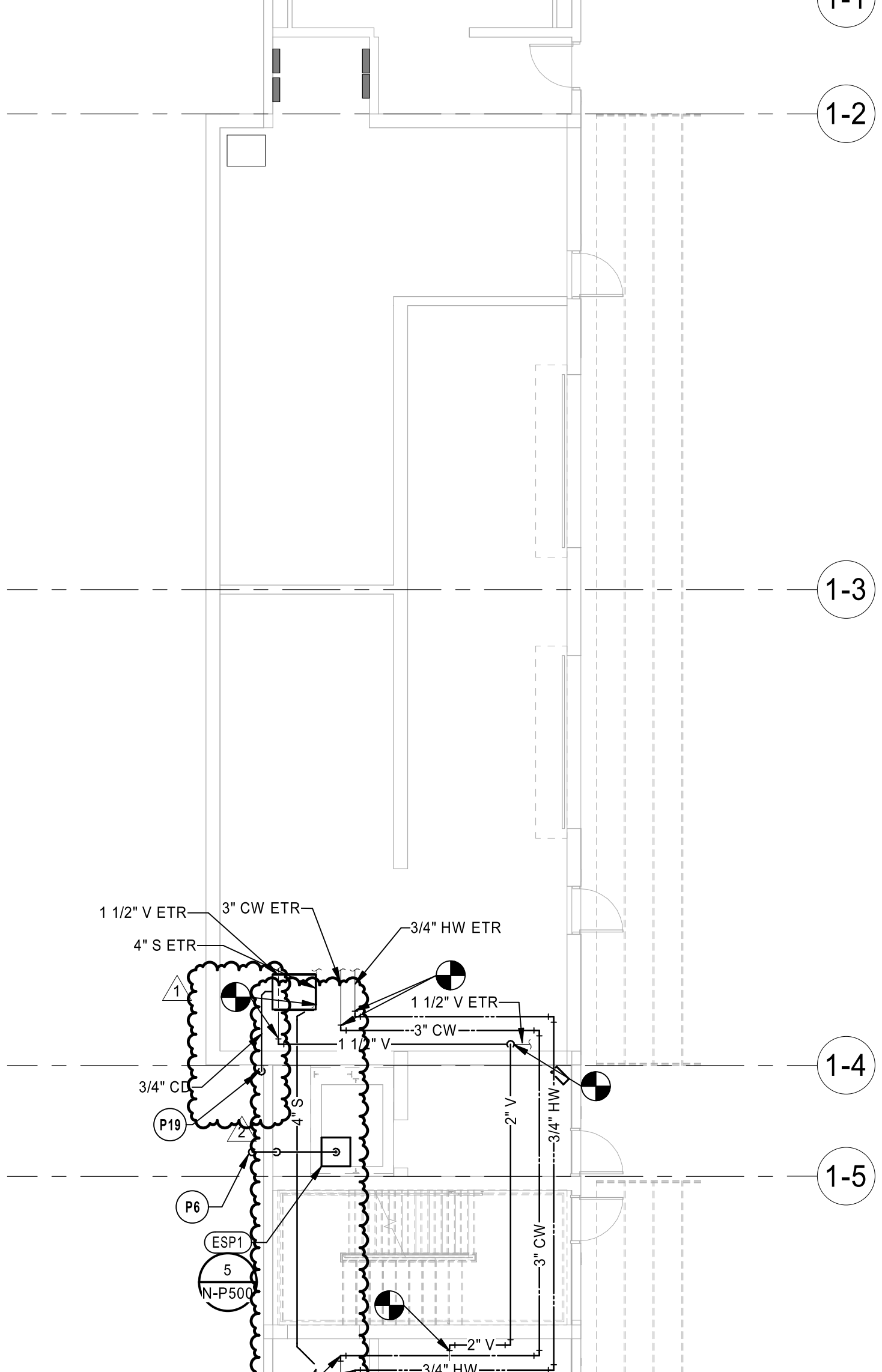
- P2 REMOVE ALL PIPING SHOWN DASHED. PROVIDE
TEMPORARY CAP ON PIPING TO BE RECONNECTED UNDER
NEW WORK.
P6 ELEVATOR SUMP PUMP PIPING SHALL DISCHARGE TO
GRADE.
P19 3/4" CONDENSATE DRAIN SHALL DISCHARGE TO GRADE.



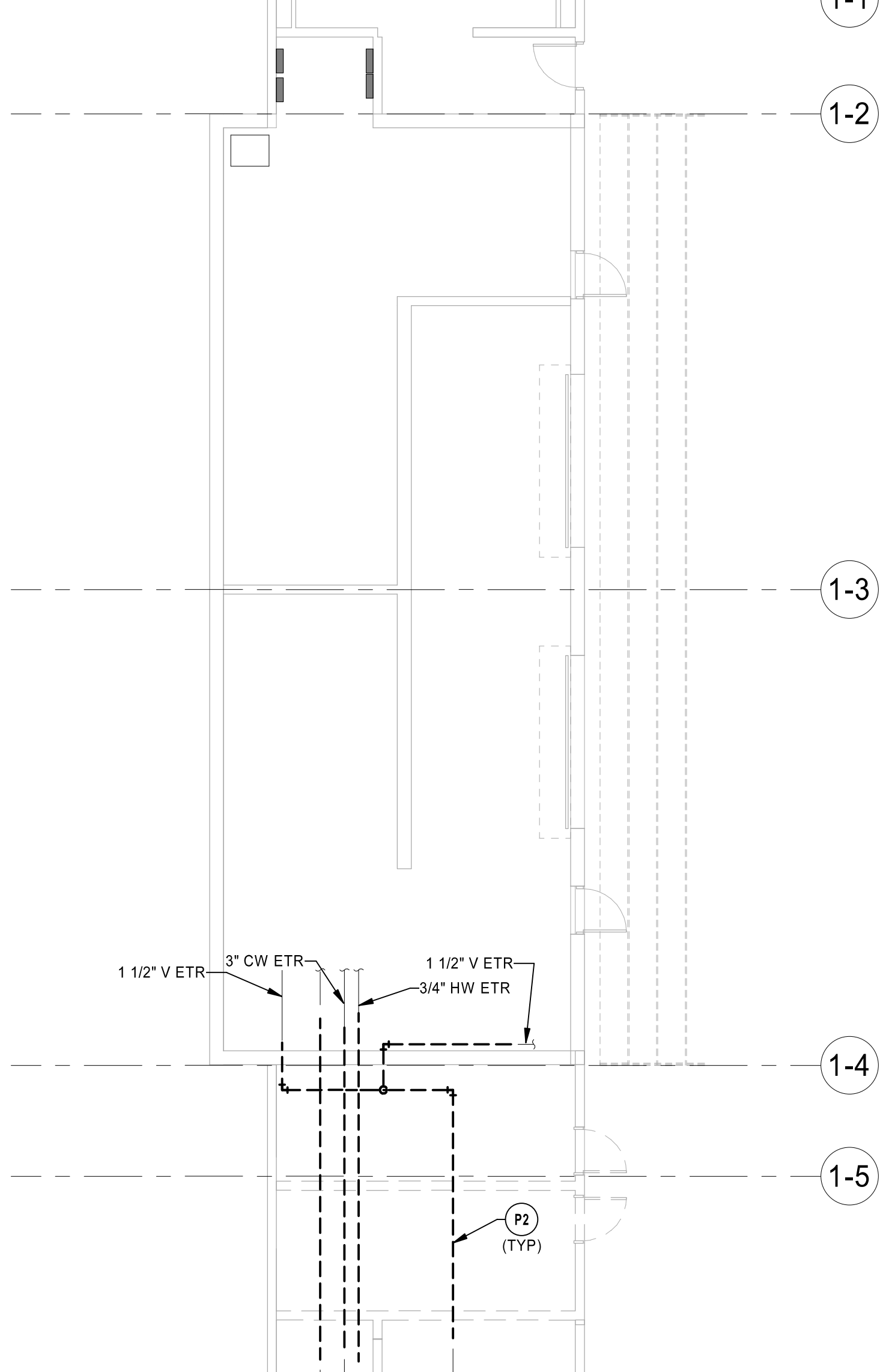
4 PRESS BOX - LEVEL 3 PLUMBING PLAN
1/8" = 1'-0"



3 PRESS BOX - LEVEL 2 PLUMBING PLAN
1/8" = 1'-0"

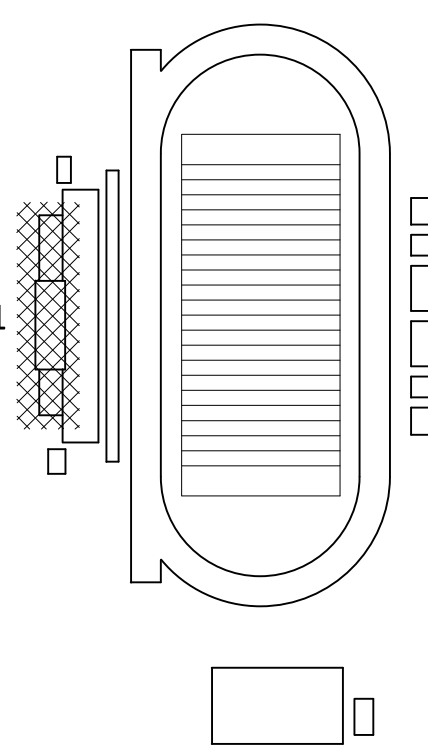


2 PRESS BOX - PLUMBING PLAN
1/8" = 1'-0"



1 PRESS BOX - PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

Key Plan:



Lee's Summit R7 District Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
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structural engineer:
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Sep 25 2020

REVISIONS

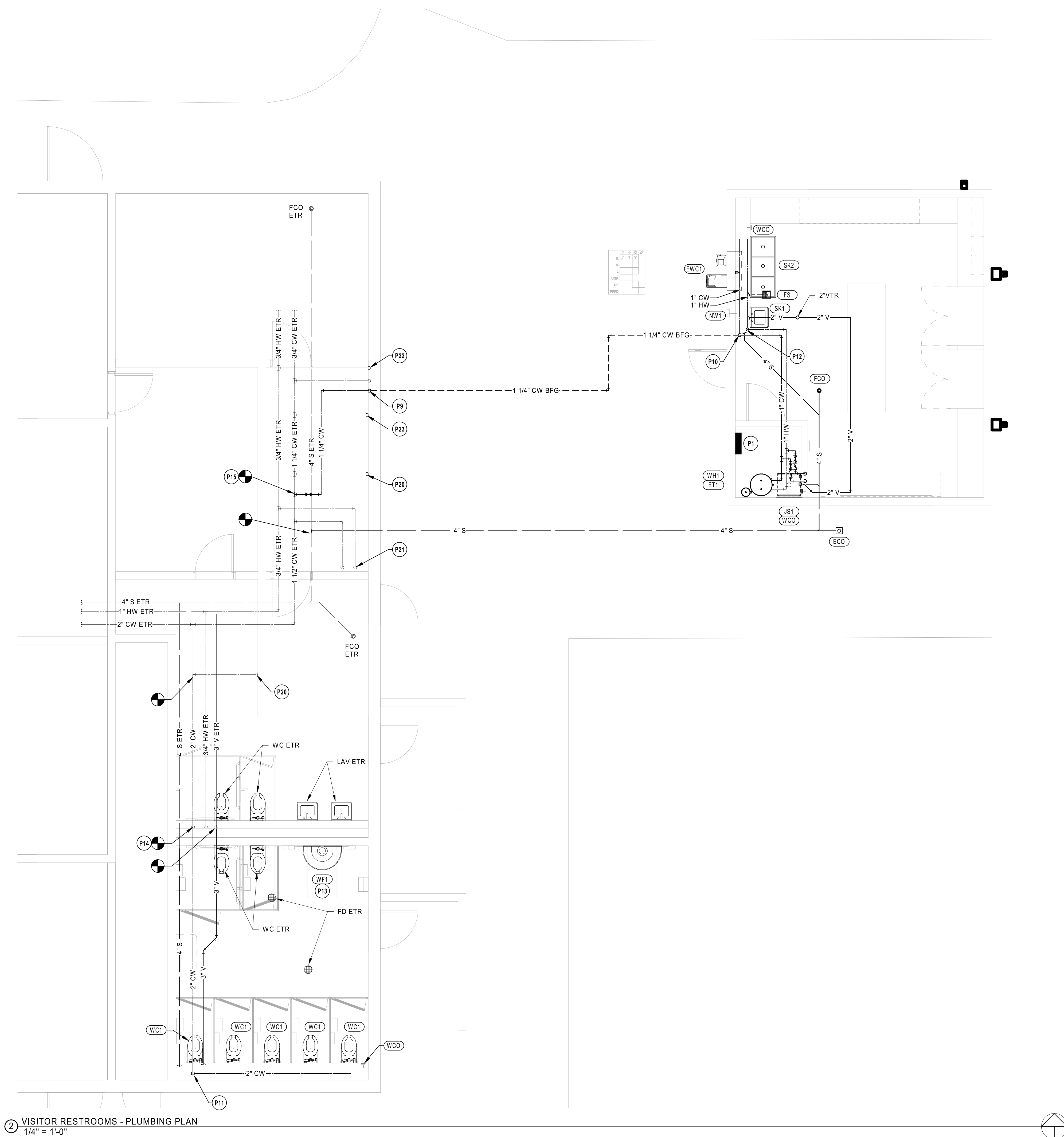
Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

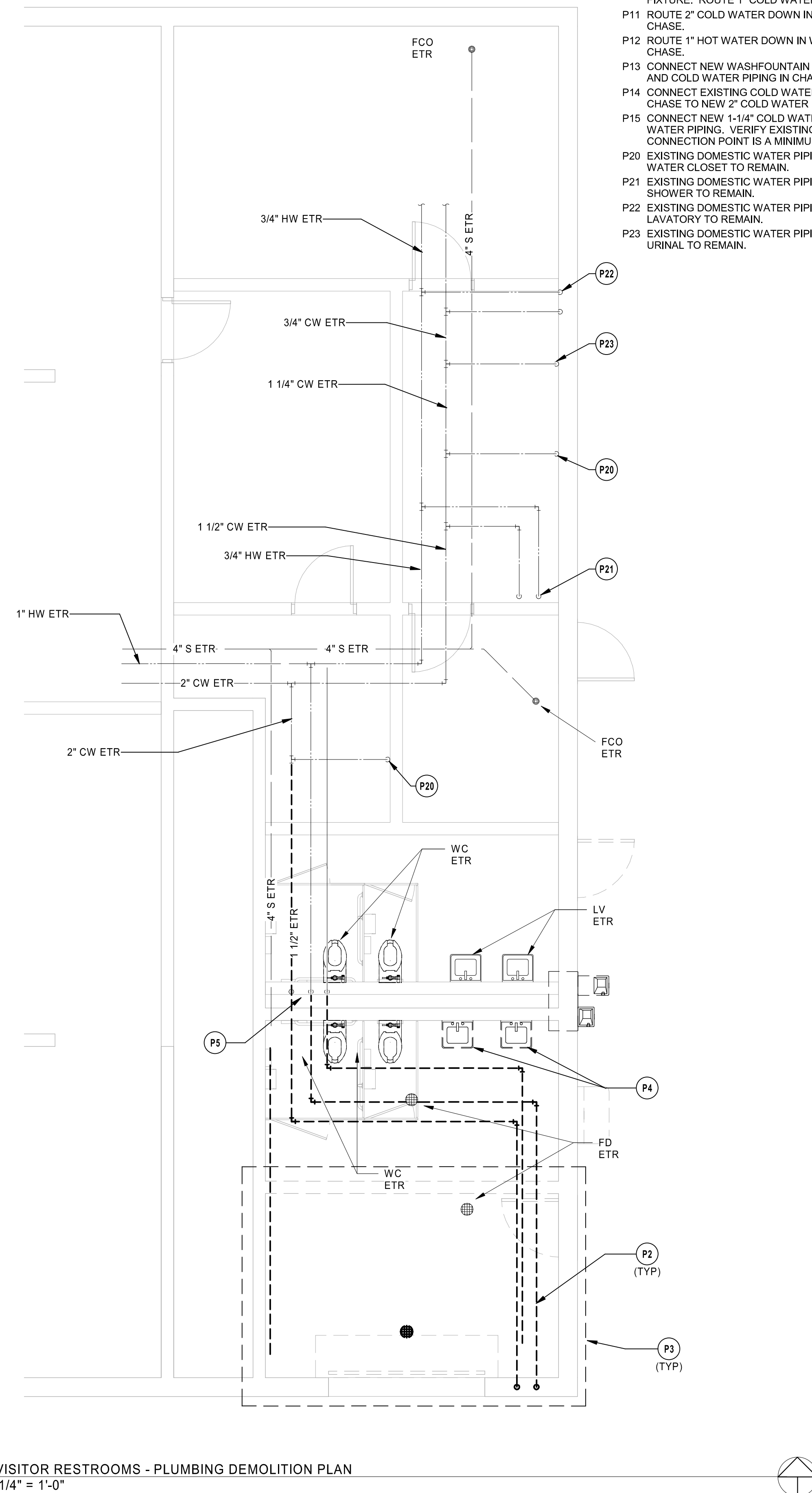
VISITOR RESTROOMS -
PLUMBING PLAN

N-P141

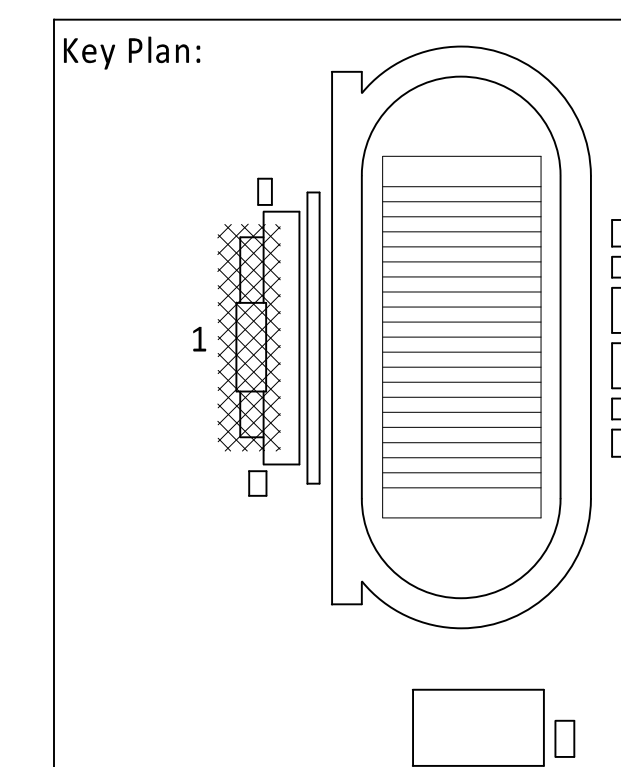
BID SET



② VISITOR RESTROOMS - PLUMBING PLAN
1/4" = 1'-0"



1 VISITOR RESTROOMS - PLUMBING DEMOLITION PLAN
1/4" = 1'-0"



Key Plan:

Lee's Summit R7 District
Athletics Facilities

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WWW.HENDERSONENGINEERS.COM
2850003134
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

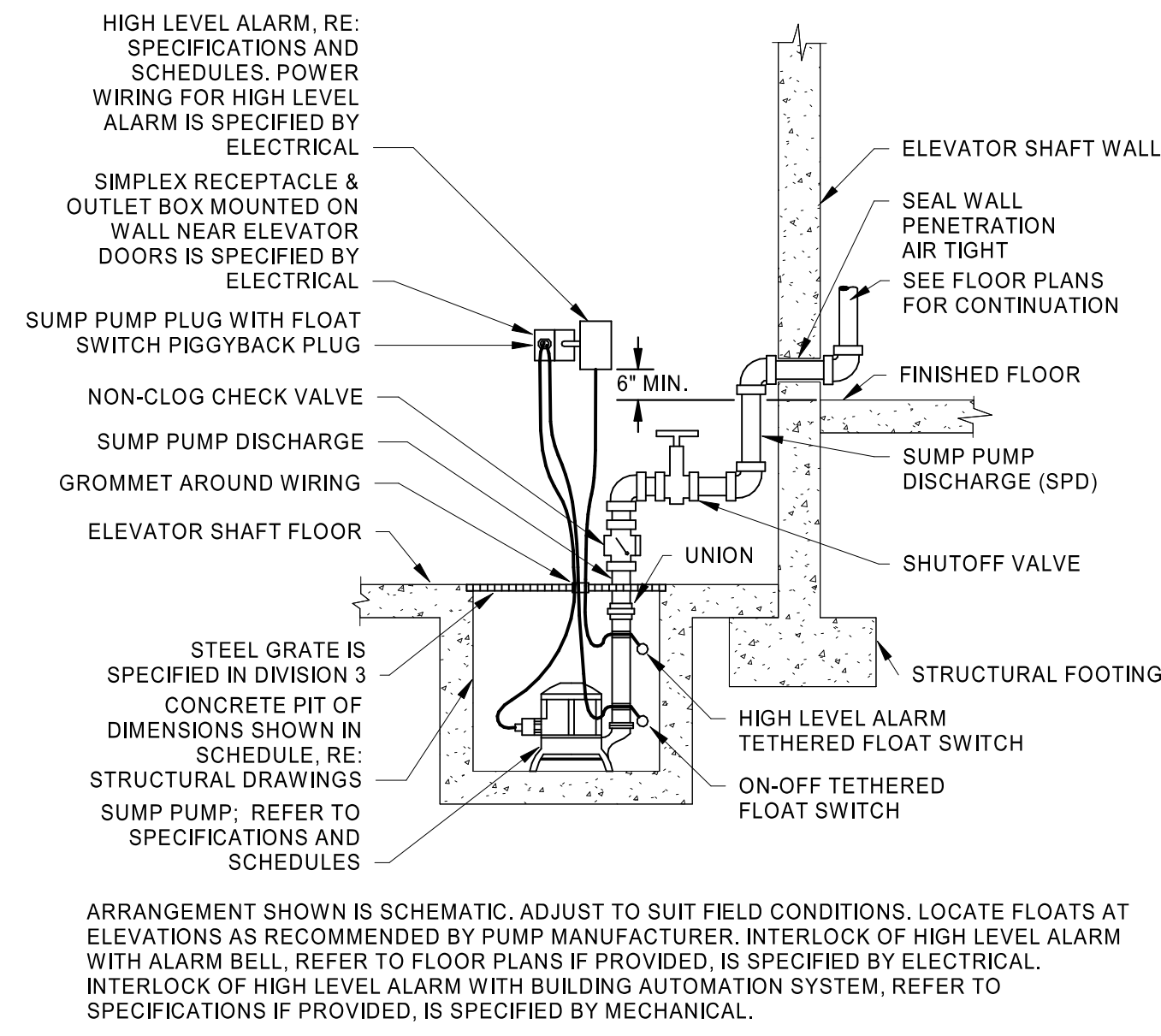
Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

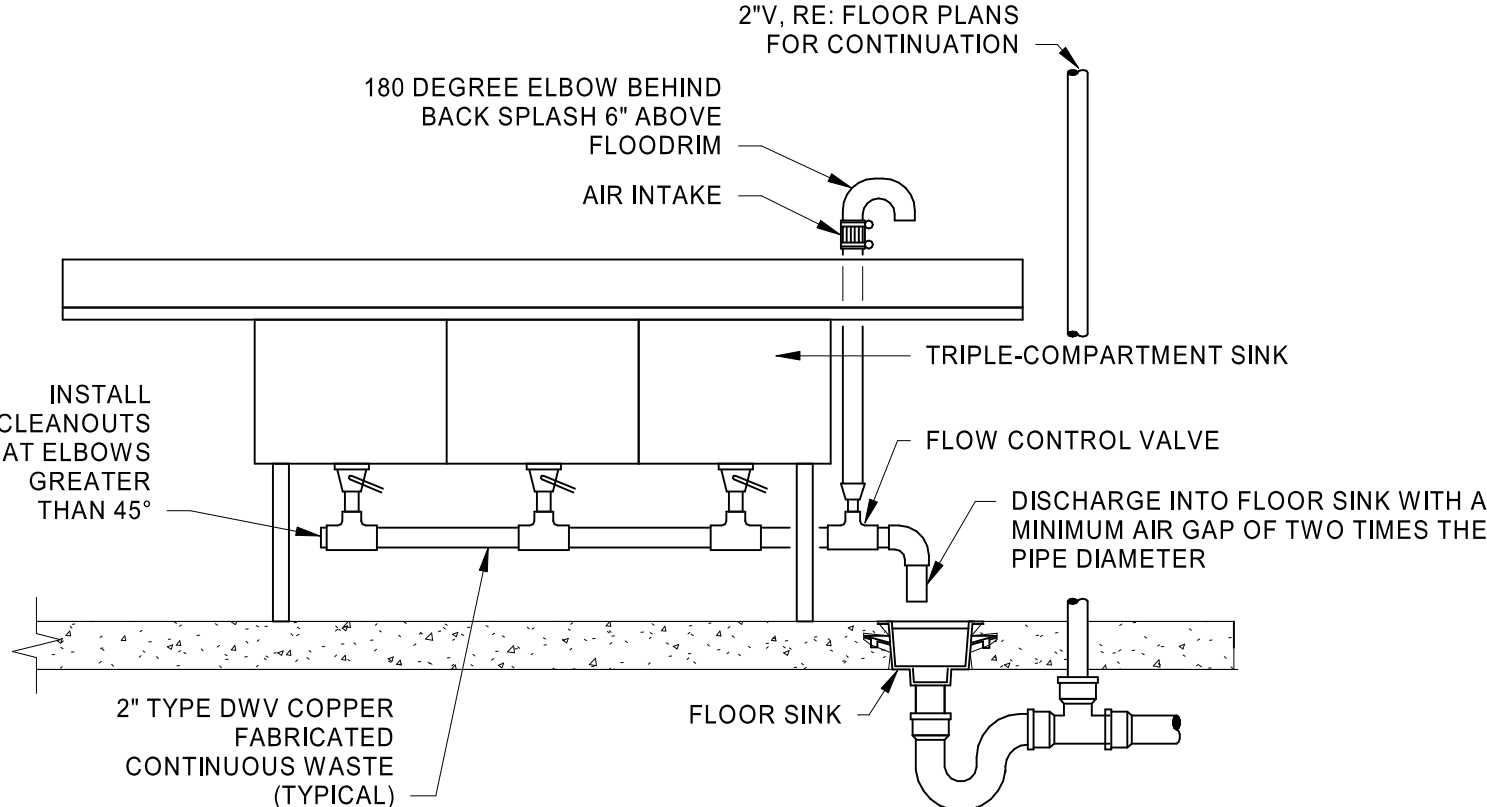
PLUMBING DETAILS

N-P500

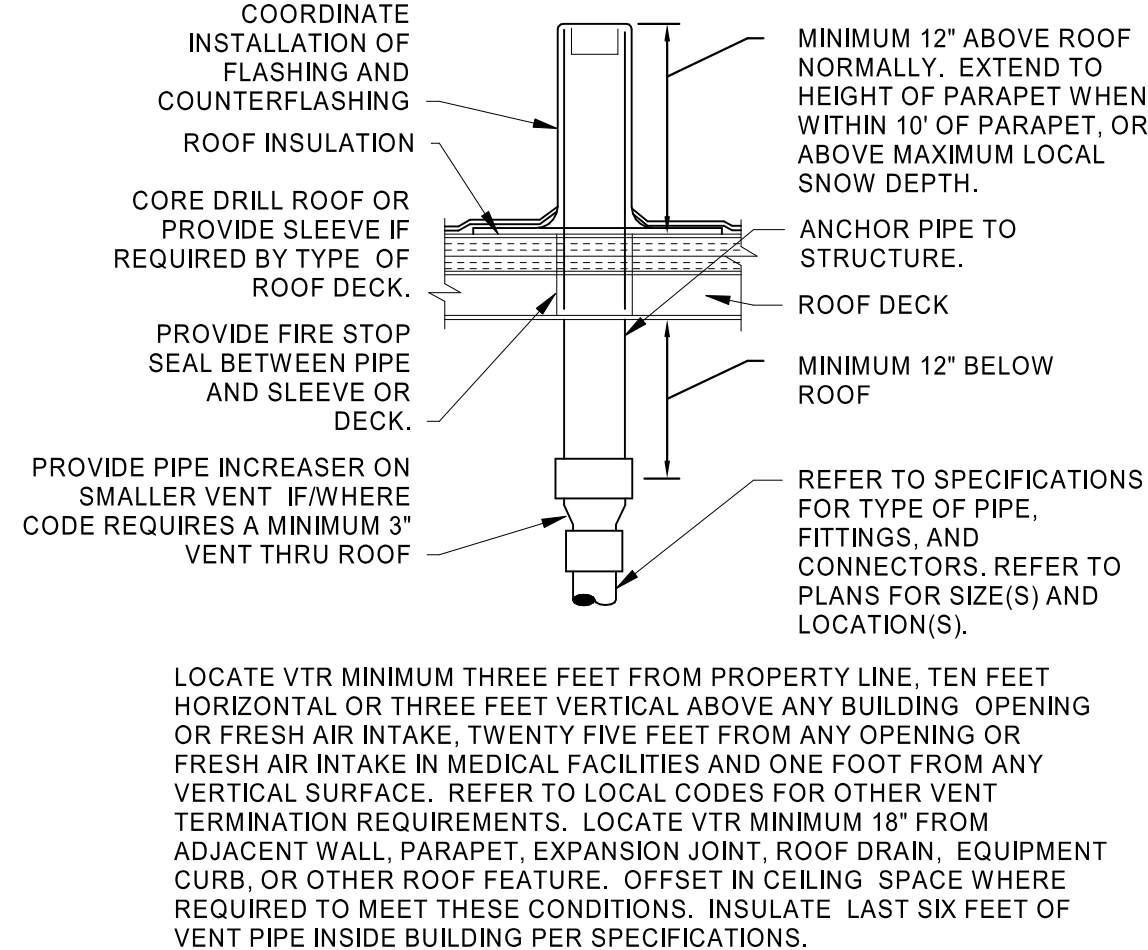
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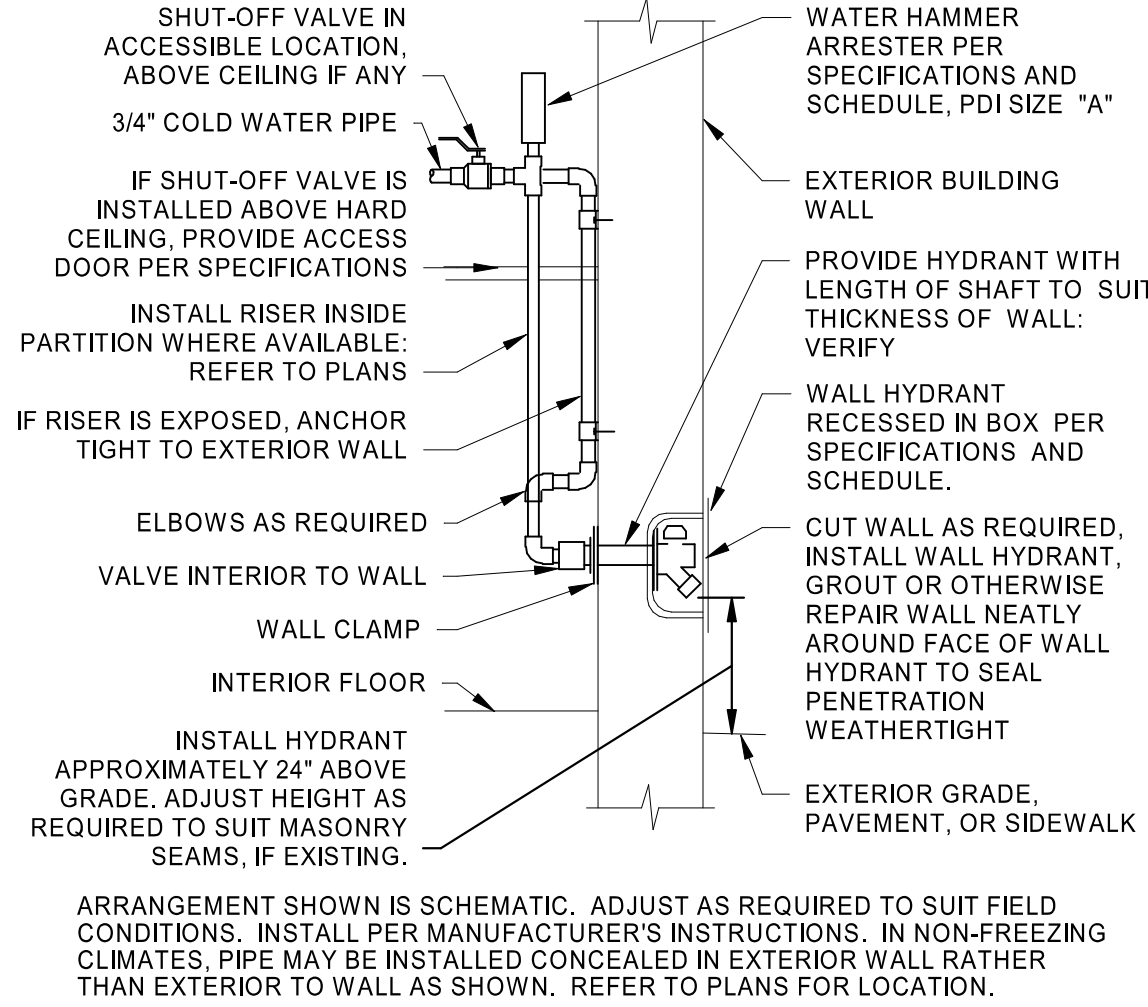
5 ELEVATOR SUMP PUMP
NTS



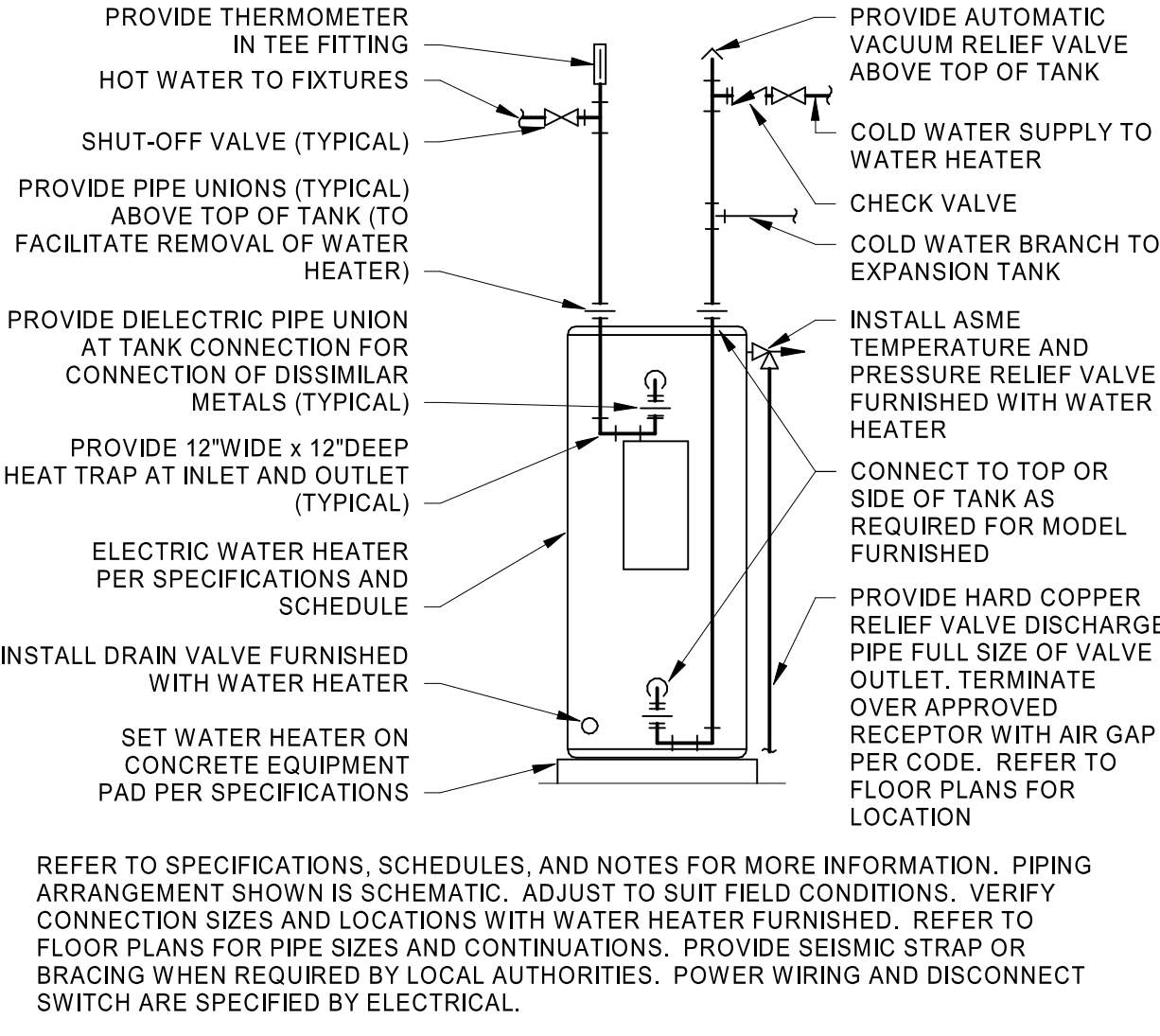
6 UTILITY SINK
NTS



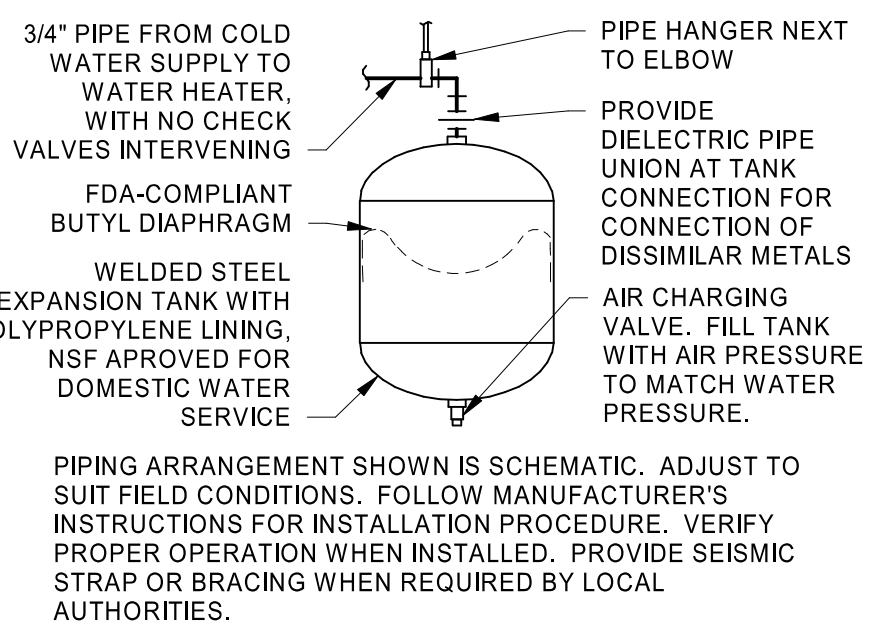
7 VENT THRU ROOF
NTS



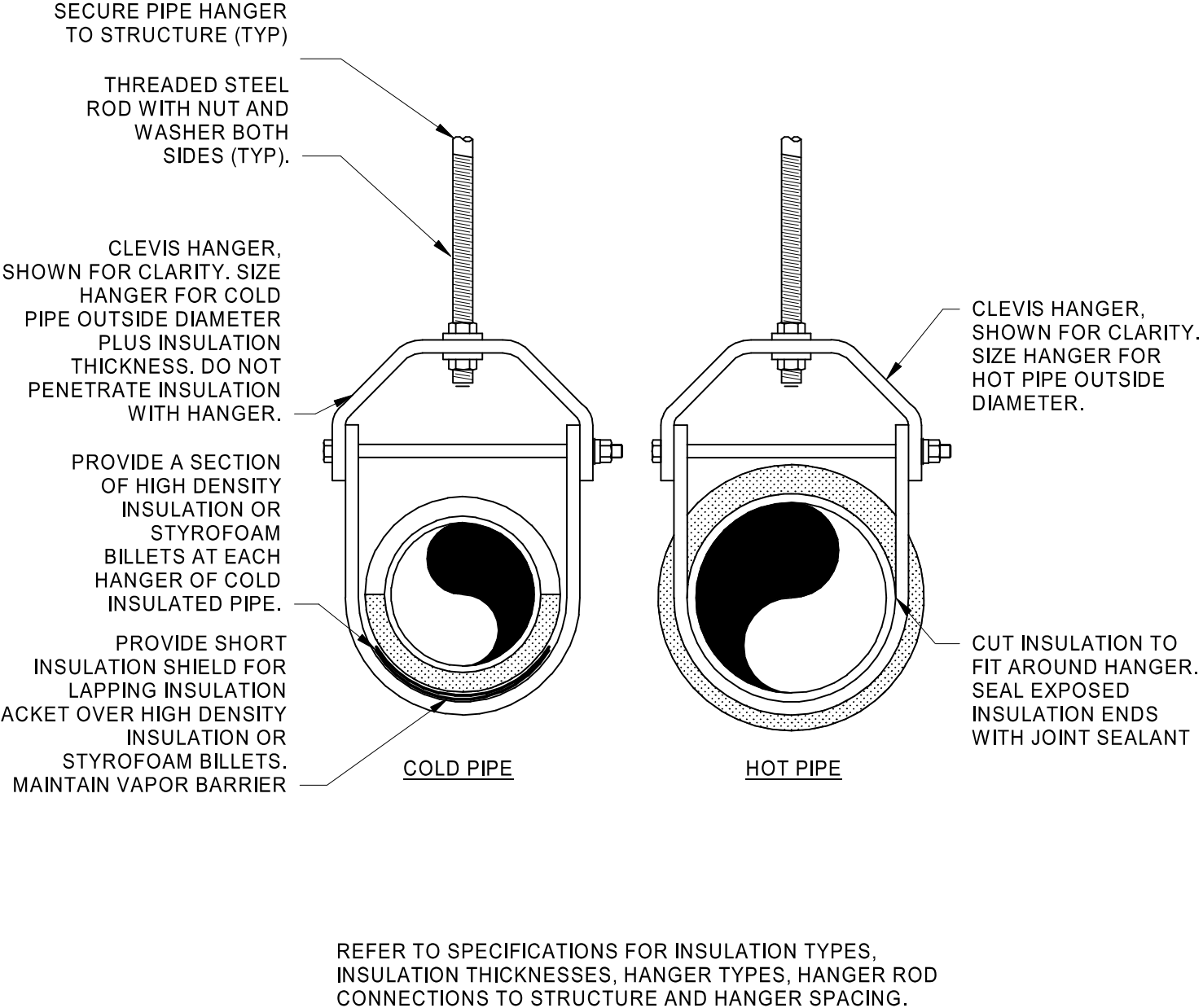
8 WALL HYDRANT INSTALLATION
NTS



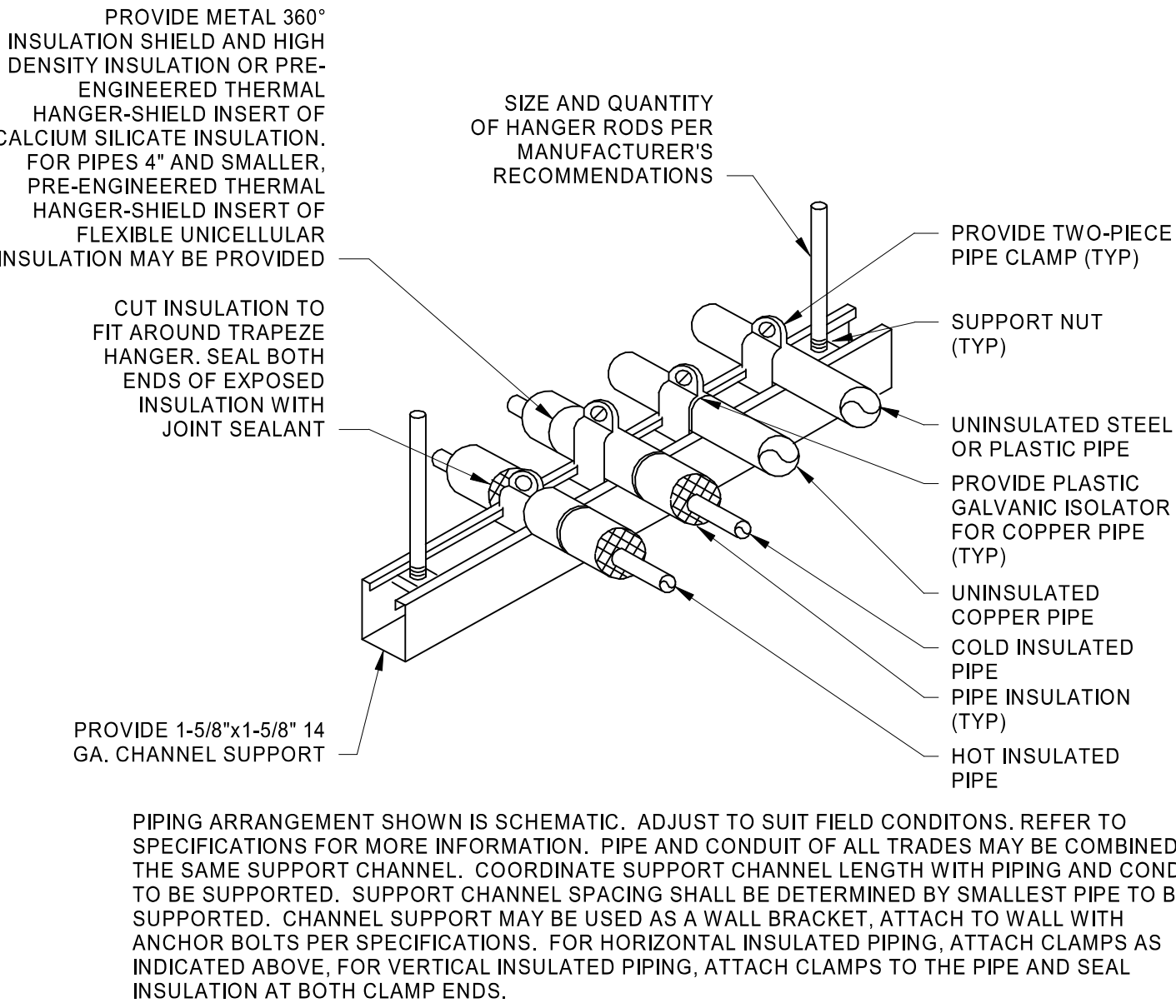
1 ELECTRIC WATER HEATER
NTS



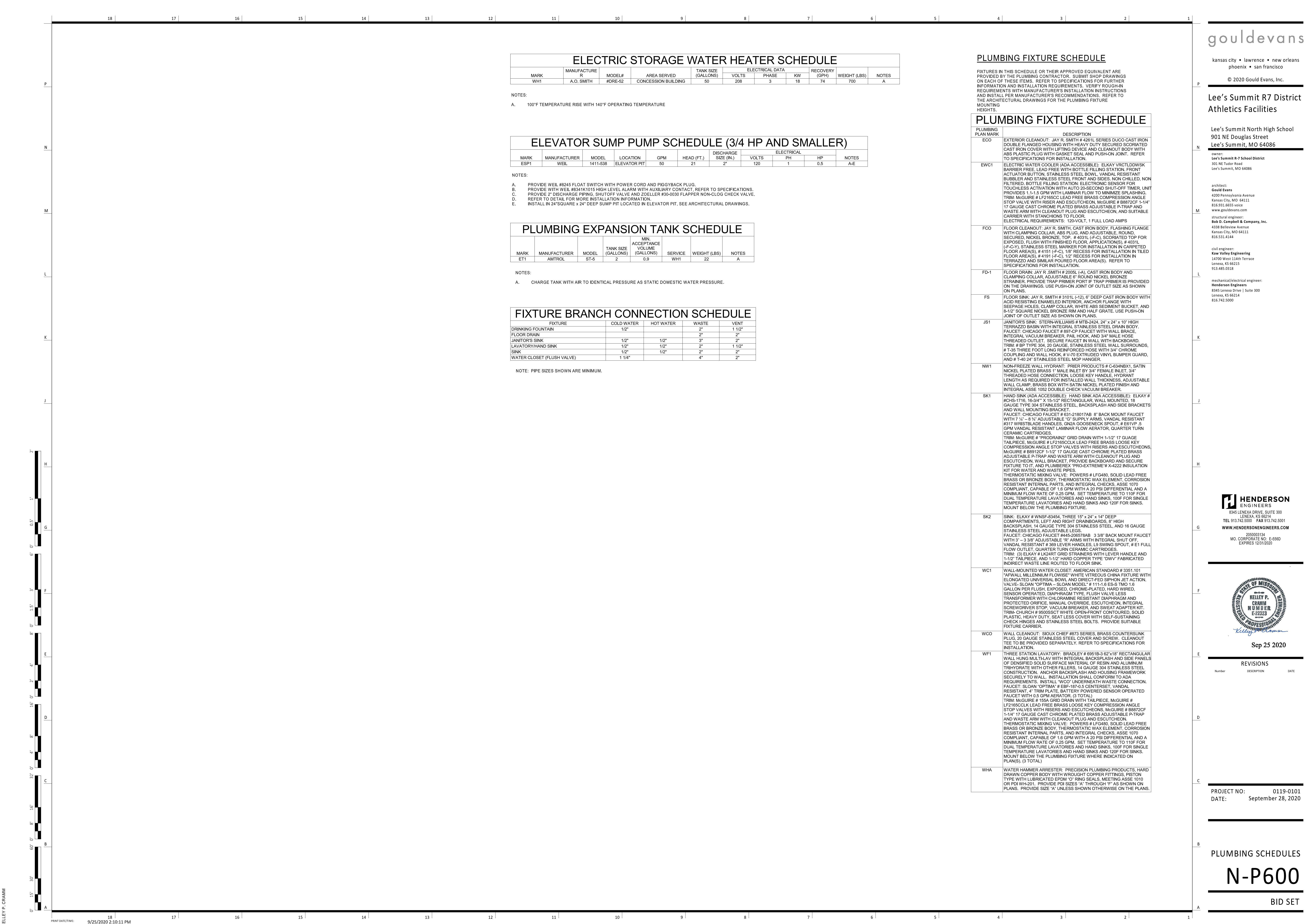
2 SMALL EXPANSION TANK
NTS



3 PIPE HANGER DETAIL
NTS



4 TRAPEZE PIPE HANGER
NTS



Lee's Summit R7 District
Athletics Facilities

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HENDERSON
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WWW.HENDERSONENGINEERS.COM
2050002134
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

PLUMBING SCHEDULES

N-P600

BID SET

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

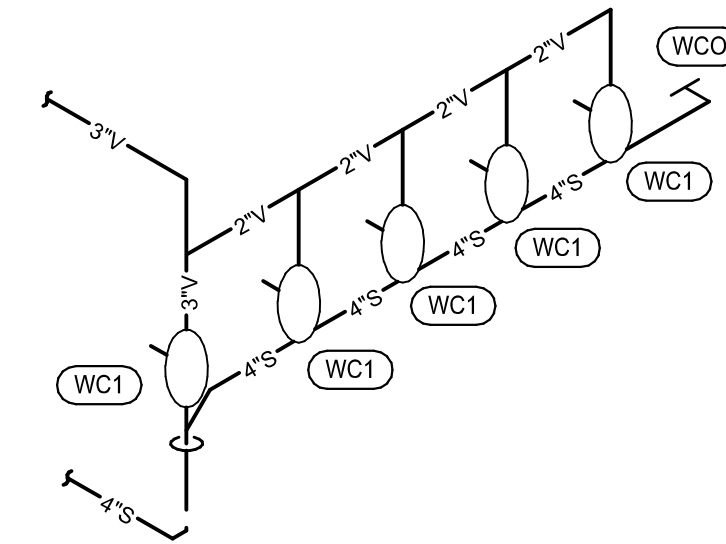
owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

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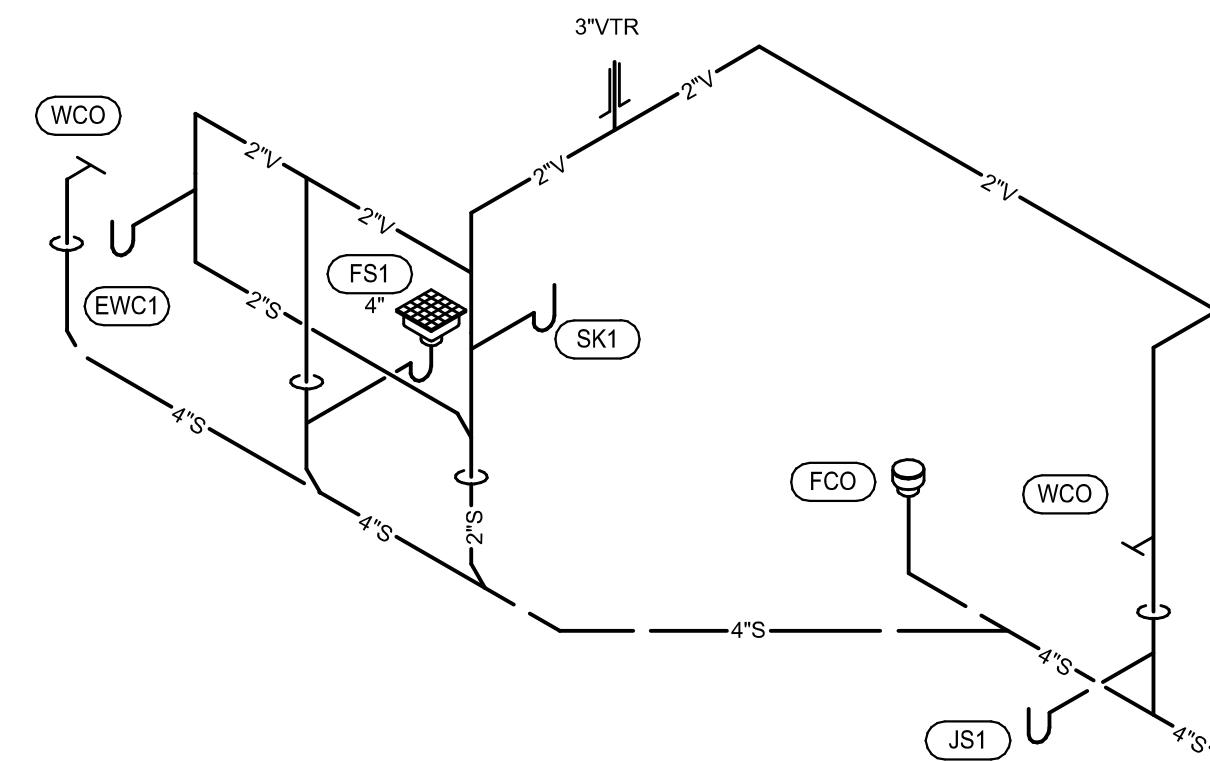
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Lenexa, KS 66214
816.742.5000



① RESTROOM PLUMBING WASTE AND VENT RISER
NTS



② CONCESSION PLUMBING WASTE AND VENT RISER
NTS

HENDERSON
ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
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WWW.HENDERSONENGINEERS.COM
2050003134
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020



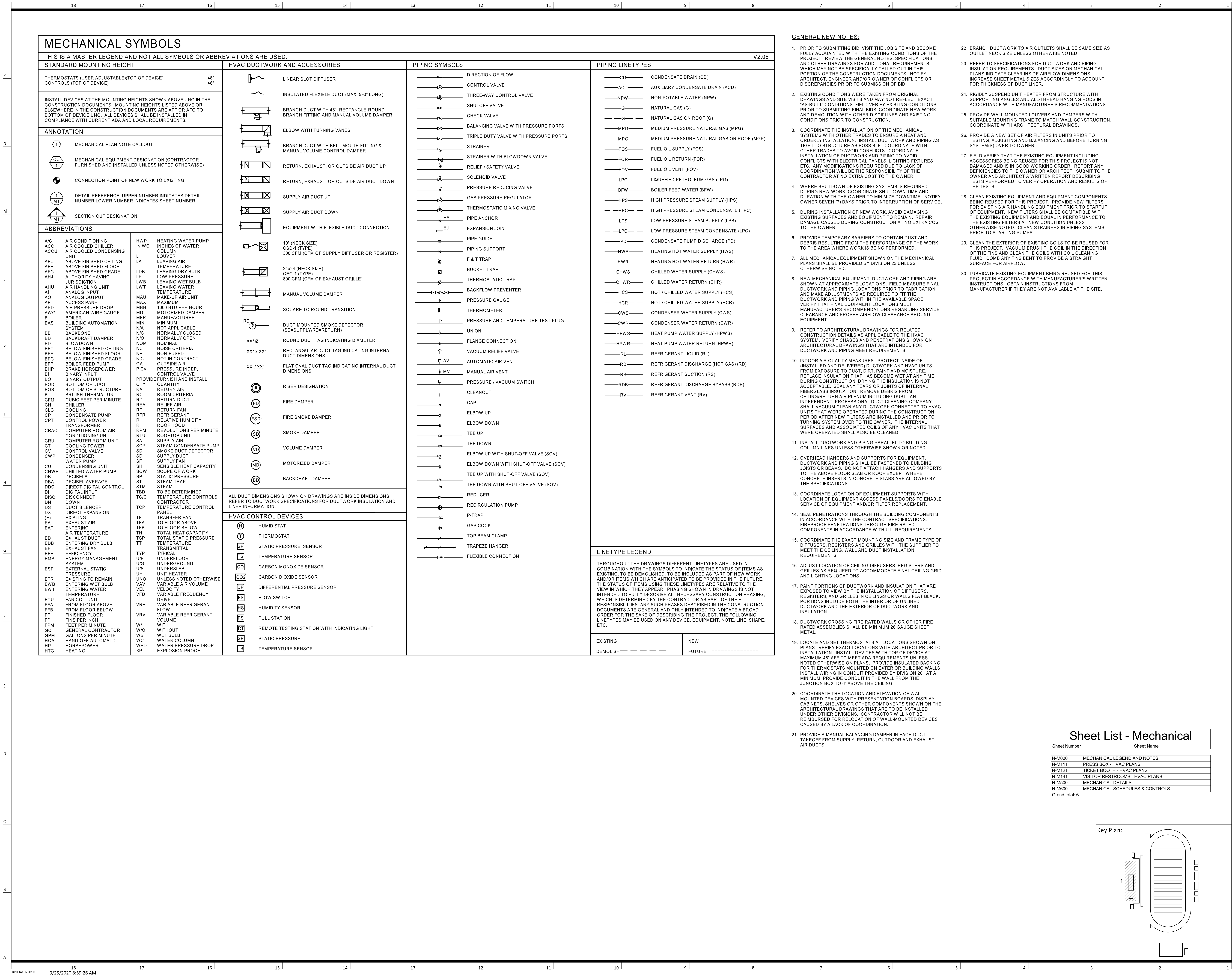
Sep 25 2020

REVISIONS		
Number	DESCRIPTION	DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

N-P700

BID SET



Lee's Summit R7 District
Athletics Facilities

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HENDERSON
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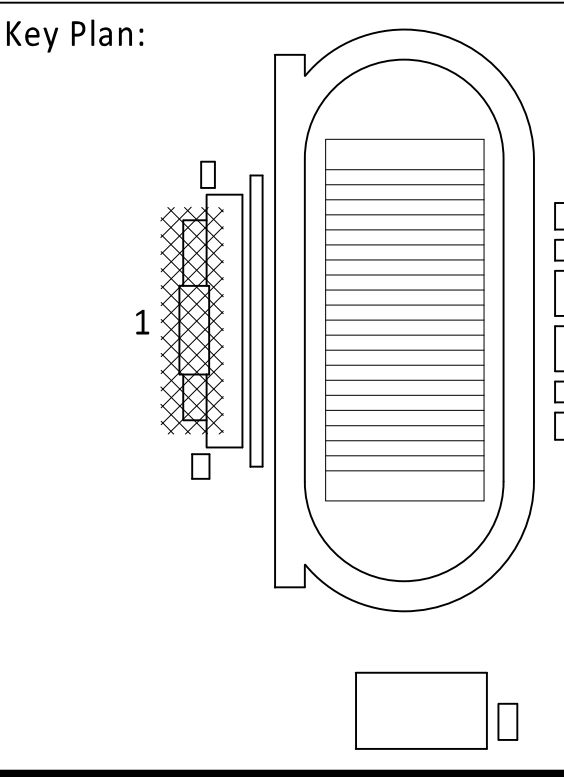
2050003134
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS		
Number	DESCRIPTION	DATE

Sheet List - Mechanical	
Sheet Number	Sheet Name
N-M000	MECHANICAL LEGEND AND NOTES
N-M121	PRESS BOX - HVAC PLANS
N-M121	TICKET BOOTH - HVAC PLANS
N-M141	VISITOR RESTROOMS - HVAC PLANS
N-M500	MECHANICAL DETAILS
N-M600	MECHANICAL SCHEDULES & CONTROLS
Grand total: 6	



Lee's Summit R7 District
Athletics Facilities

Lee's Summit North High School
901 NE Douglas Street
Lee's Summit, MO 64086

owner:
Lee's Summit R-7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
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4200 Pennsylvania Avenue
Kansas City, MO 64111
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www.gouldevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Belleview Avenue
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civil engineer:
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Nov 6 2020

REVISIONS

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1	Addendum 3	10.23.2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

PRESS BOX - HVAC
PLANS

N-M111

BID SET

MECHANICAL PLAN NOTES:

M1 EXISTING HEATER AND ALL ASSOCIATED ACCESSORIES TO REMAIN. VERIFY OPERATION AND CLEAN ACCORDING TO SPECIFICATIONS.

M3 RELOCATE EXISTING UNIT HEATER AND ALL ASSOCIATED ACCESSORIES TO NEW LOCATION SHOWN. RETAIN AND RELOCATE EXISTING CONTROLS AS REQUIRED FOR NEW ROOM LAYOUT. SUSPENDED FROM STRUCTURE ACCORDING TO MANUFACTURER REQUIREMENTS AND SPECIFICATIONS.

M5 INSTALL THERMOSTAT WITHIN ELEVATOR SHAFT IN ACCESSIBLE LOCATION AS CLOSE TO ELEVATOR CONTROLLER AS POSSIBLE.

M9 EXISTING UNIT HEATER AND ALL ASSOCIATED ACCESSORIES TO BE RELOCATED. REFER TO PLANS FOR NEW LOCATION.

M18 INSTALL CONDENSING UNIT ON WALL ABOVE LOW ROOF. ROUTE REFRIGERANT PIPING INSIDE AND UP THE INTERIOR OF THE BUILDING. REFER TO SPECIFICATIONS AND MANUFACTURER REQUIREMENTS.

M19 INSTALL FAN COIL UNIT SUSPENDED FROM STRUCTURE. REFER TO SPECIFICATIONS AND MANUFACTURER REQUIREMENTS.

4 PRESS BOX - LEVEL 3 HVAC PLANS
1/8" = 1'-0"

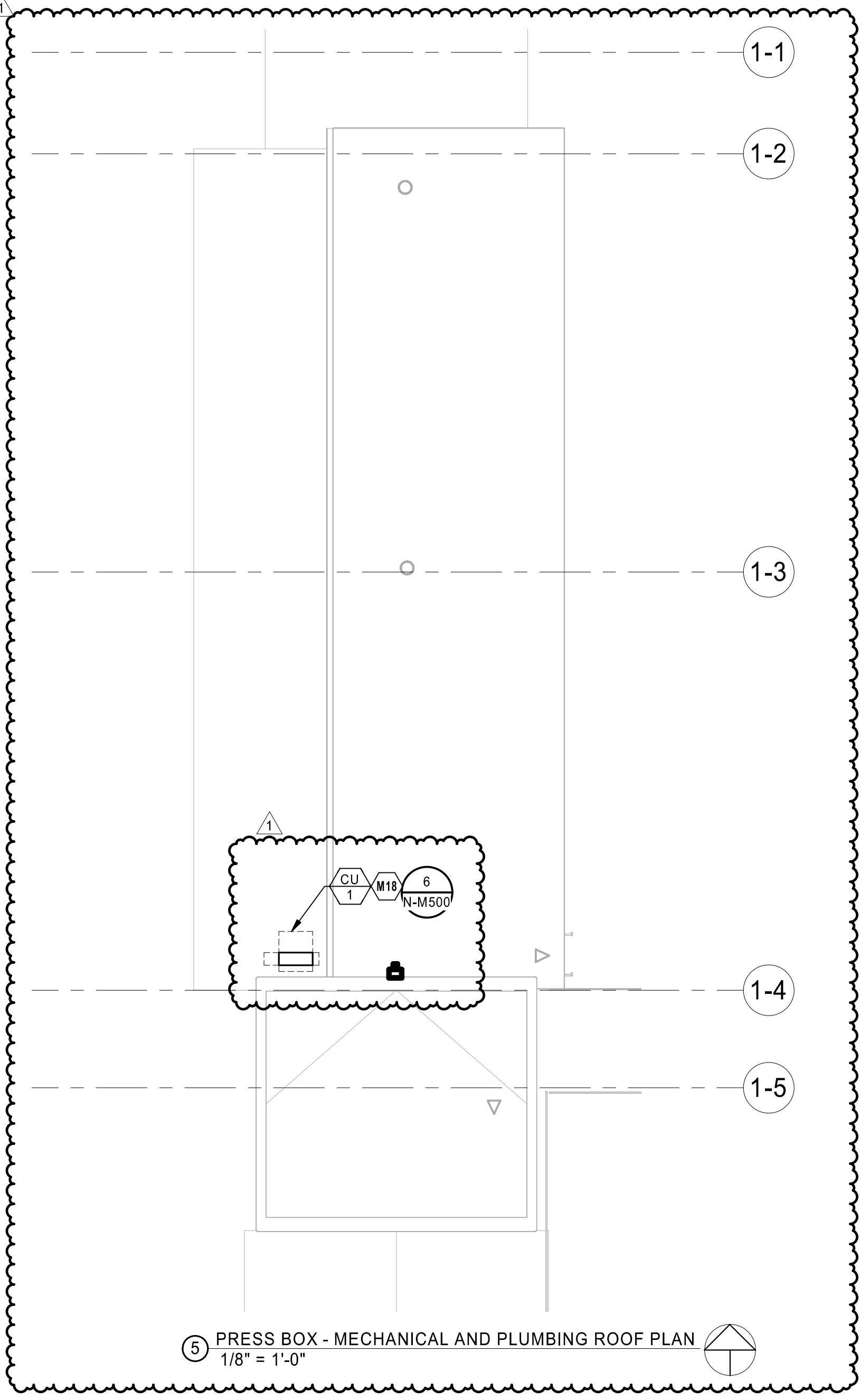
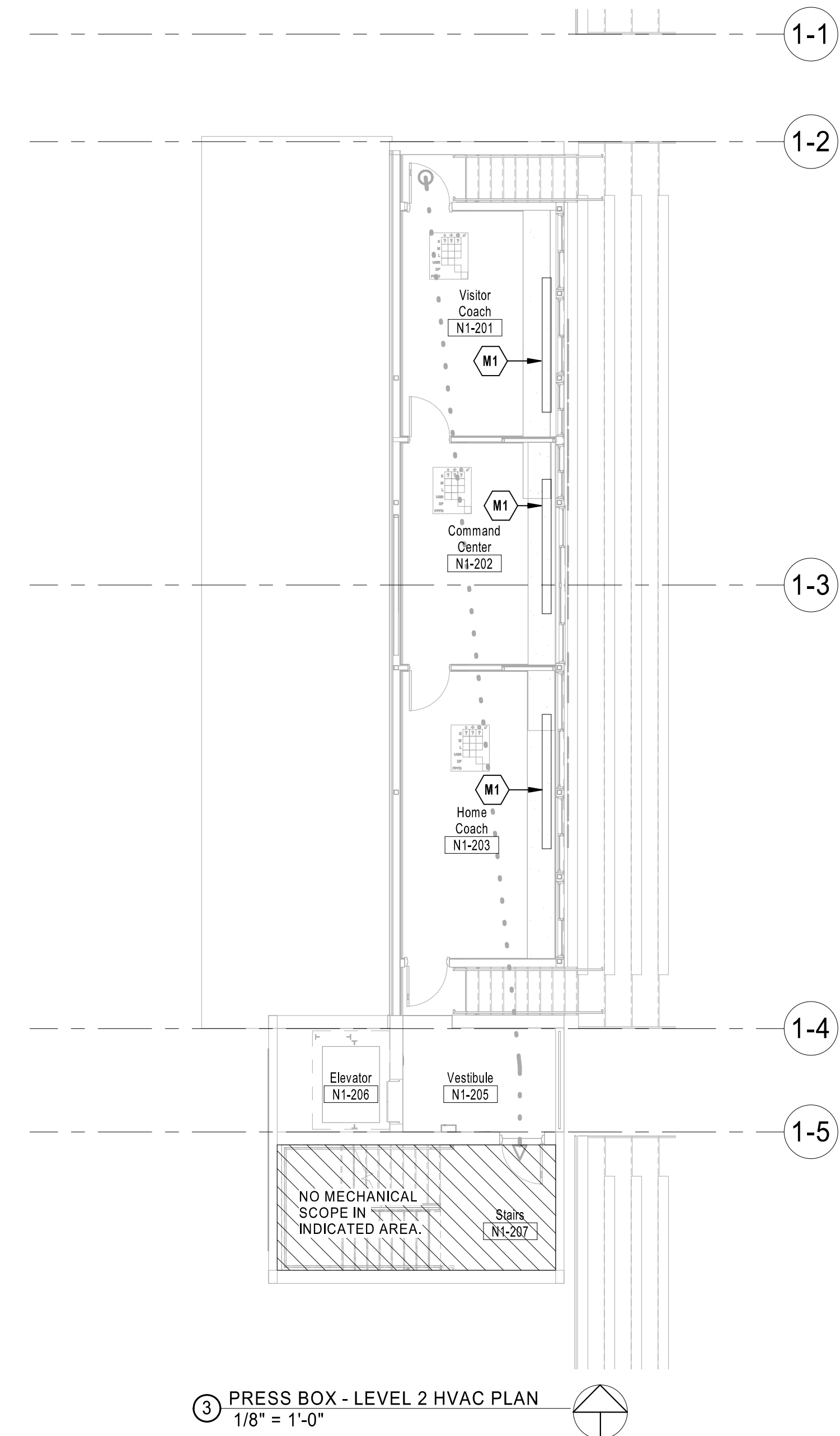
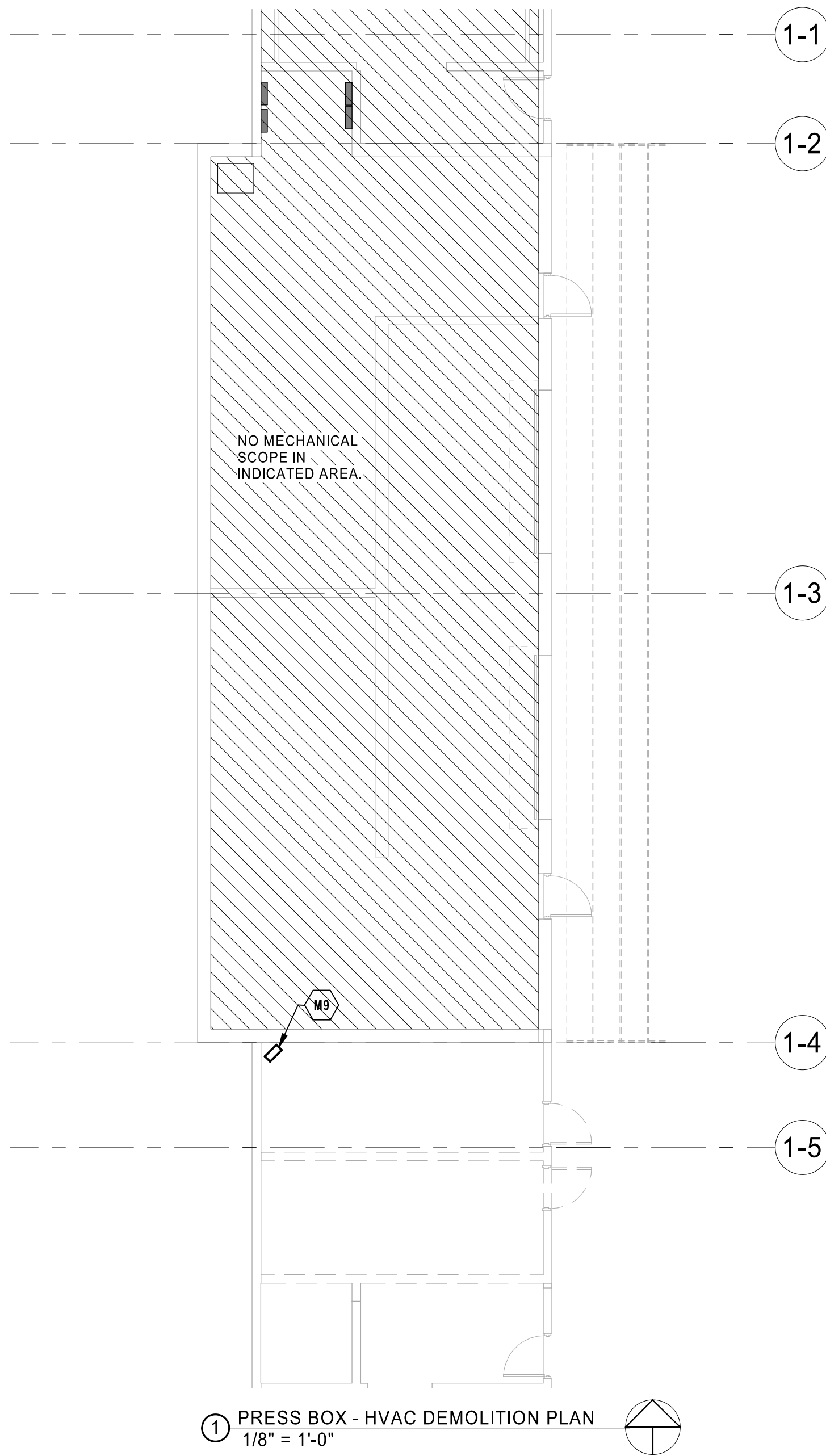
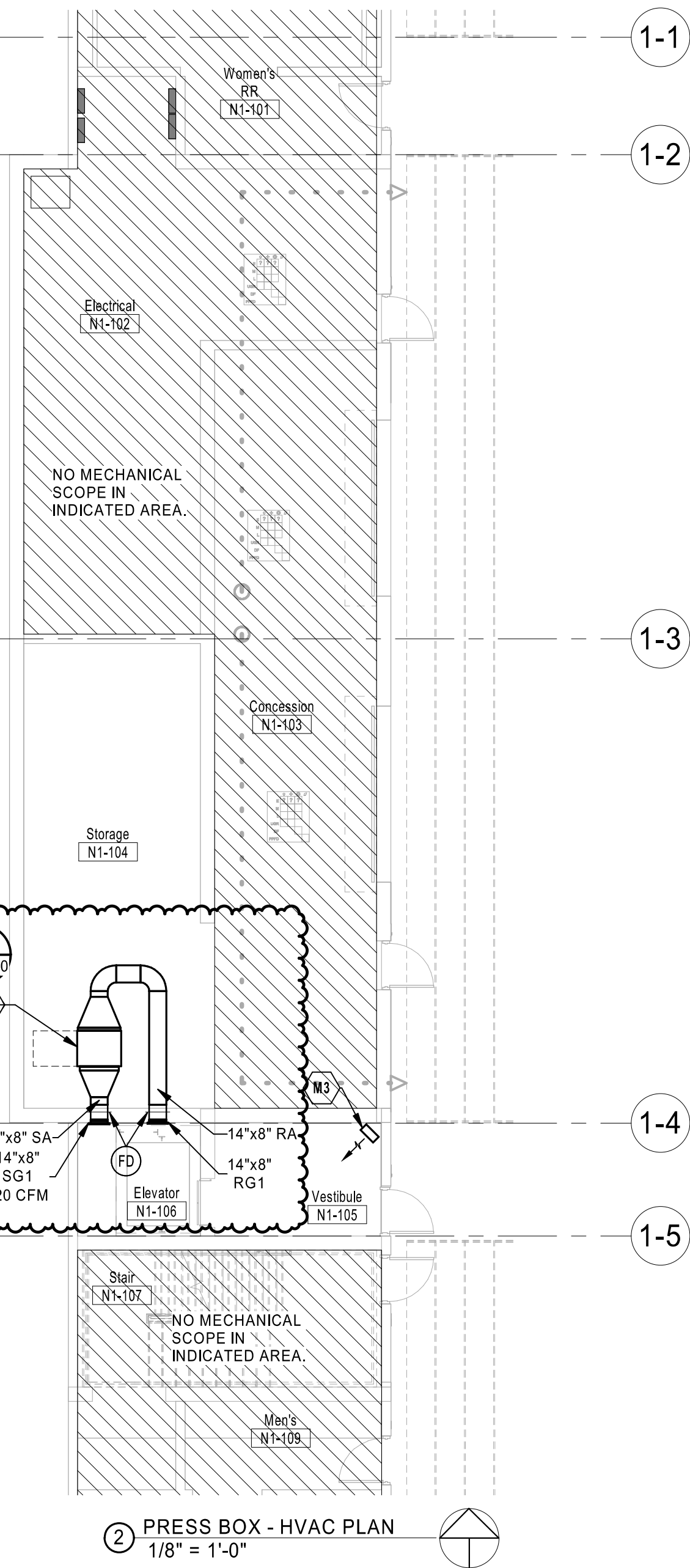
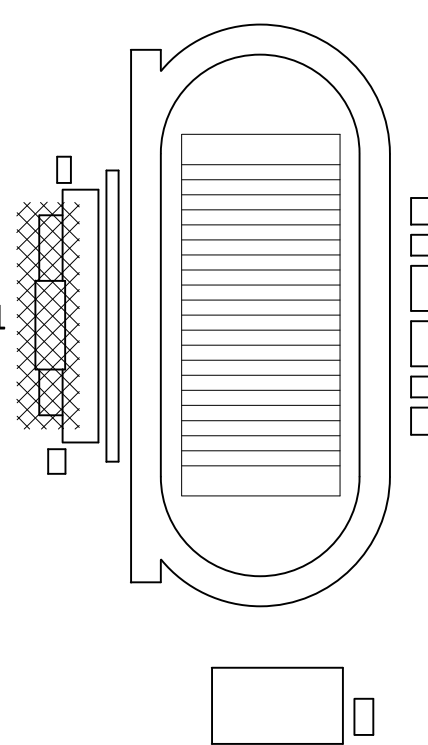
3 PRESS BOX - LEVEL 2 HVAC PLAN
1/8" = 1'-0"

2 PRESS BOX - HVAC PLAN
1/8" = 1'-0"

1 PRESS BOX - HVAC DEMOLITION PLAN
1/8" = 1'-0"

5 PRESS BOX - MECHANICAL AND PLUMBING ROOF PLAN
1/8" = 1'-0"

Key Plan:



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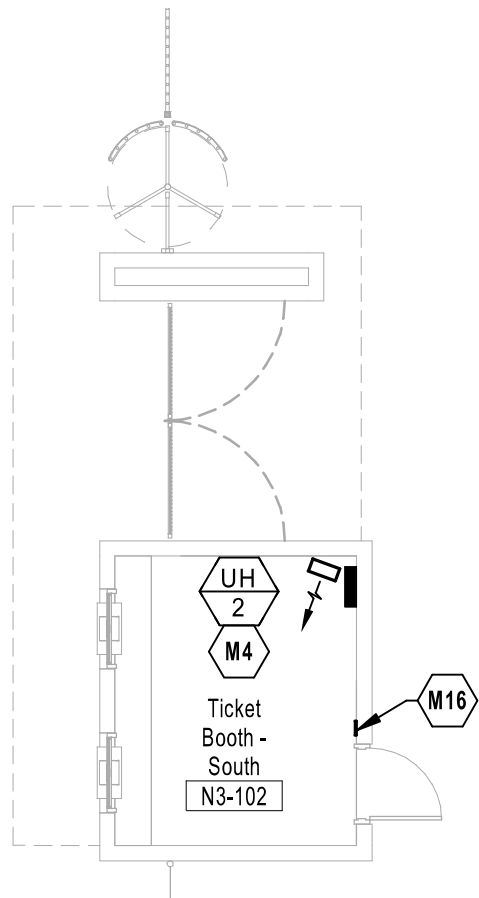
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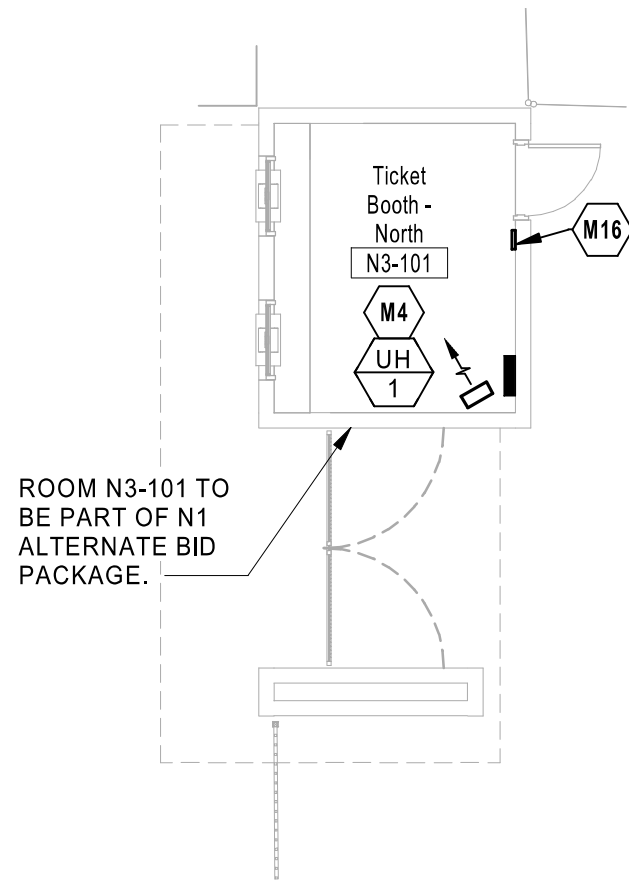
TICKET BOOTH - HVAC
PLANS

N-M121

BID SET



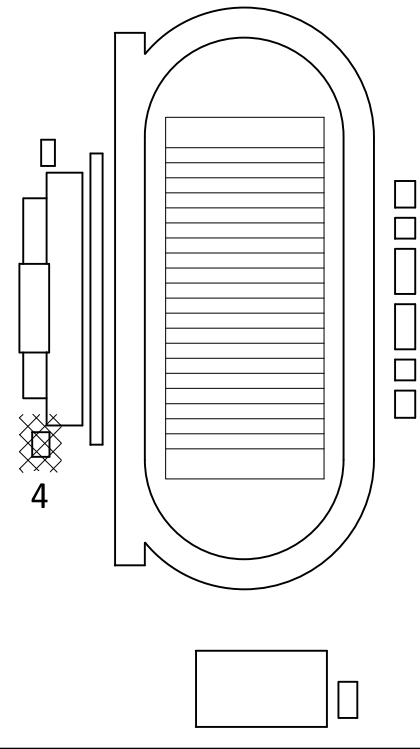
MECHANICAL PLAN NOTES:
M4 INSTALL UNIT HEATER SUSPENDED FROM STRUCTURE
ACCORDING TO MANUFACTURER REQUIREMENTS AND
SPECIFICATIONS.
M16 TIMER SWITCH PROVIDED BY DIVISION 26.



1 NORTH TICKET BOOTH - HVAC PLAN
1/8" = 1'-0"

2 SOUTH TICKET BOOTH - HVAC PLAN
1/8" = 1'-0"

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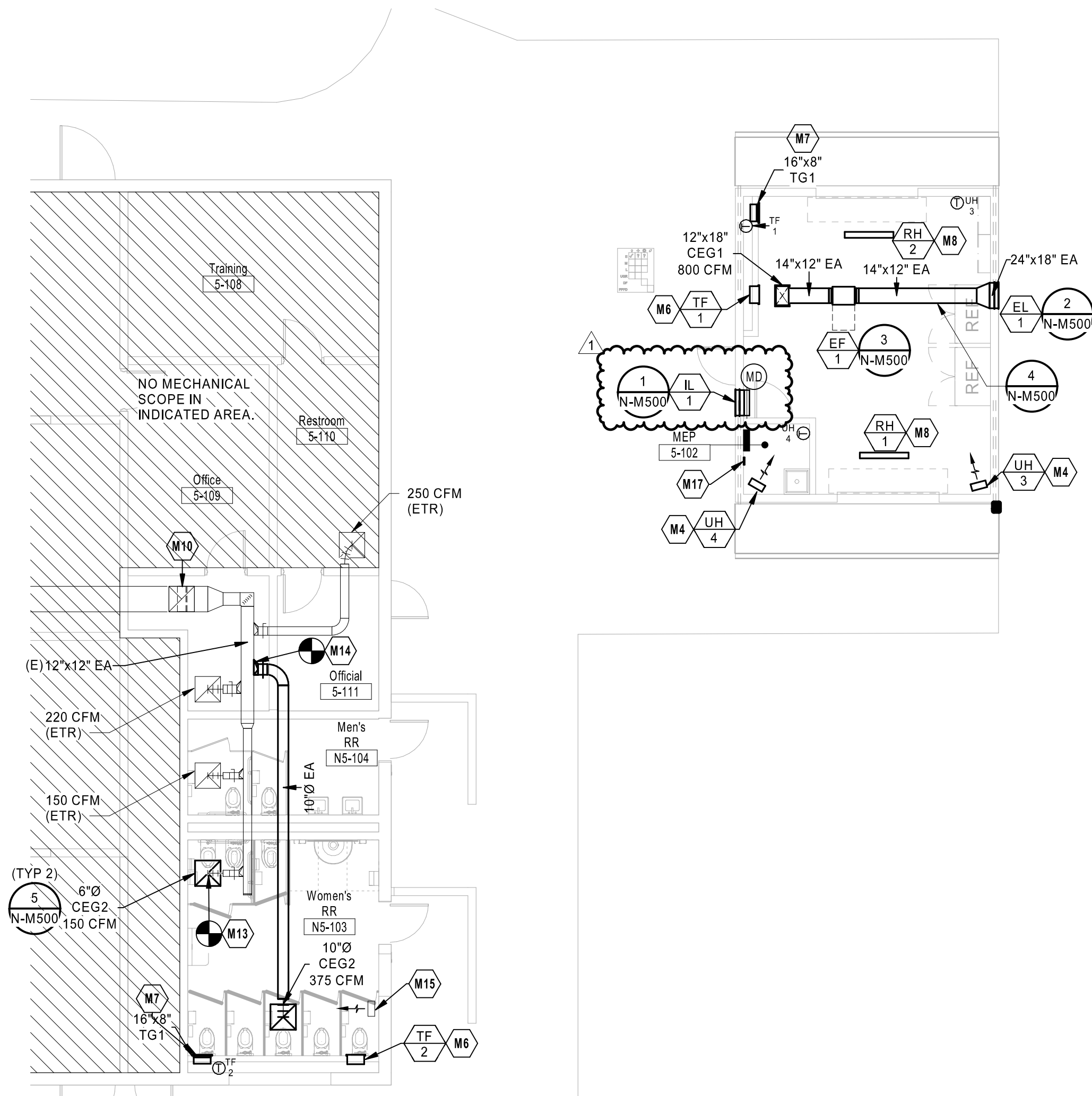
VISITOR RESTROOMS -
HVAC PLANS

N-M141

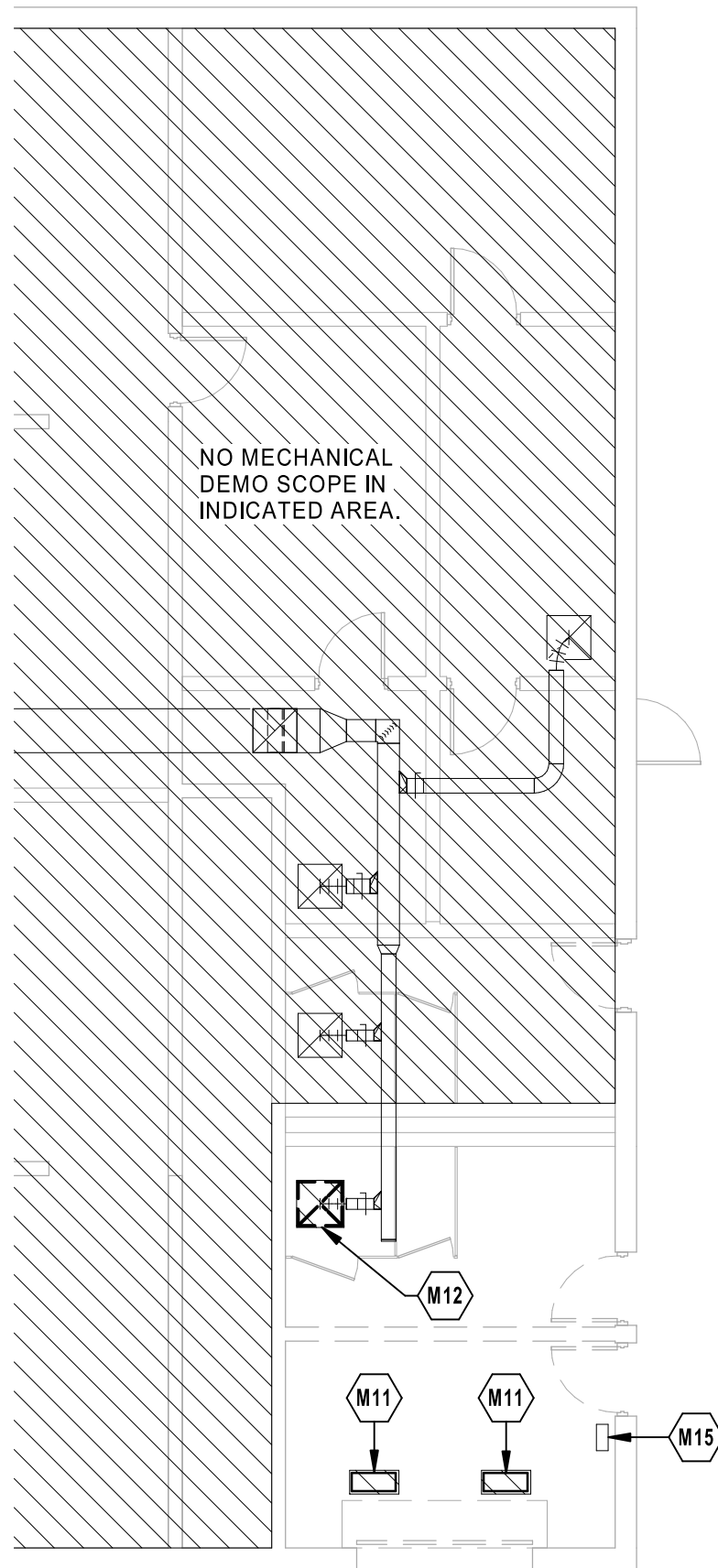
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MECHANICAL PLAN NOTES:

- M4 INSTALL UNIT HEATER SUSPENDED FROM STRUCTURE ACCORDING TO MANUFACTURER REQUIREMENTS AND SPECIFICATIONS.
M6 INSTALL TRANSFER FAN HIGH ON WALL IN CMU BLOCK VOID.
M7 INSTALL TRANSFER GRILLE LOW ON WALL AS NOT TO INTERFERE WITH PLUMBING FIXTURES.
M8 INSTALL RADIANT HEATER RECESSED IN CEILING. COORDINATE FINAL LOCATION WITH LIGHTING FIXTURES.
M10 EXISTING 24"x24" DUCT UP TO EF-1 ON ROOF TO REMAIN. REBALANCE EF-1 TO 5185 CFM.
M11 DEMO EXISTING RADIANT HEATER AND ALL ASSOCIATED ACCESSORIES.
M12 REMOVE EXISTING EXHAUST GRILLE AND PREPARE DUCTWORK FOR CONNECTION TO NEW GRILLE.
M13 CONNECT NEW EXHAUST GRILLE TO EXISTING DUCTWORK. MODIFY EXISTING DUCTWORK AS REQUIRED.
M14 CONNECT NEW DUCT TO EXISTING DUCTWORK. MODIFY EXISTING DUCTWORK AS REQUIRED.
M15 EXISTING UNIT HEATER TO REMAIN. REMOVE AND REINSTALL AS REQUIRED FOR NEW CEILING AND NEW ROOM LAYOUT. RETAIN ALL ACCESSORIES AND CONTROLS.
M17 PROVIDE DDC CONTROLLER IN MEP ROOM. COORDINATE FINAL LOCATION WITH OTHER DISCIPLINES.

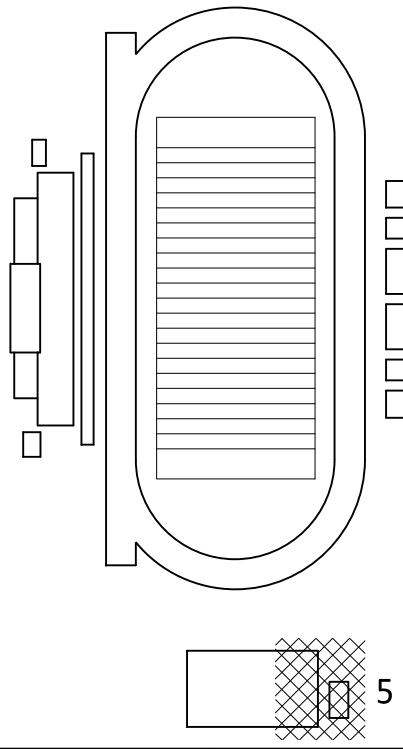


2 VISITOR RESTROOMS - HVAC PLAN
1/8" = 1'-0"



1 VISITOR RESTROOMS - HVAC DEMOLITION PLAN
1/8" = 1'-0"

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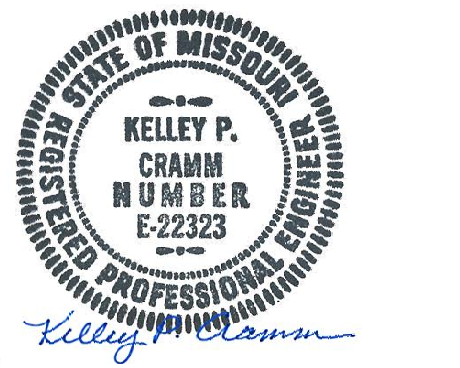
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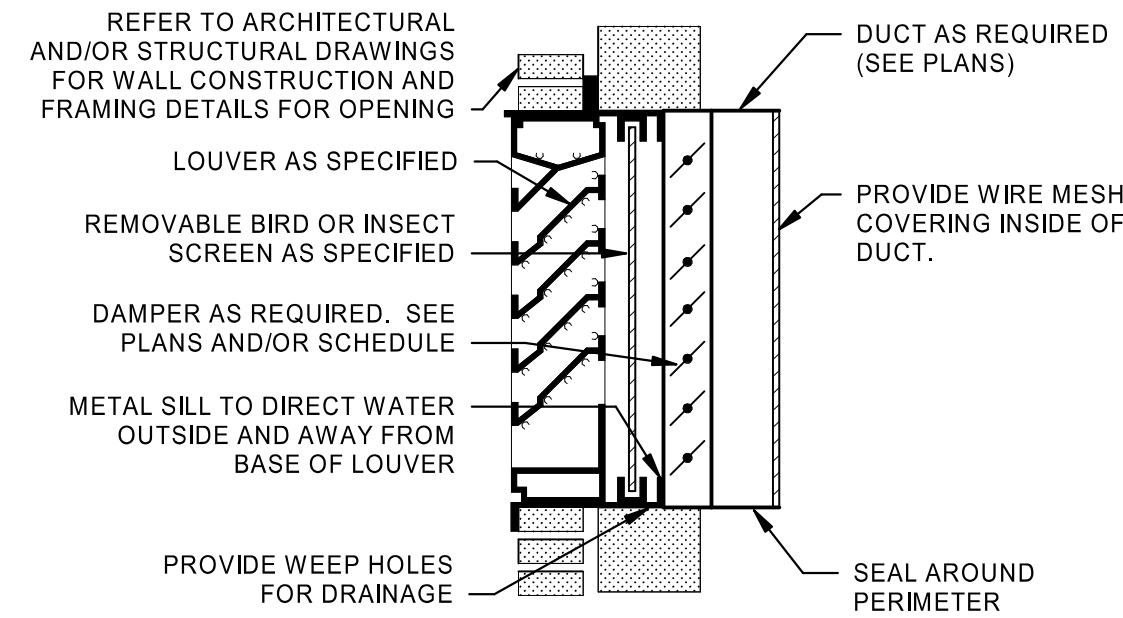
REVISIONS		
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MECHANICAL DETAILS

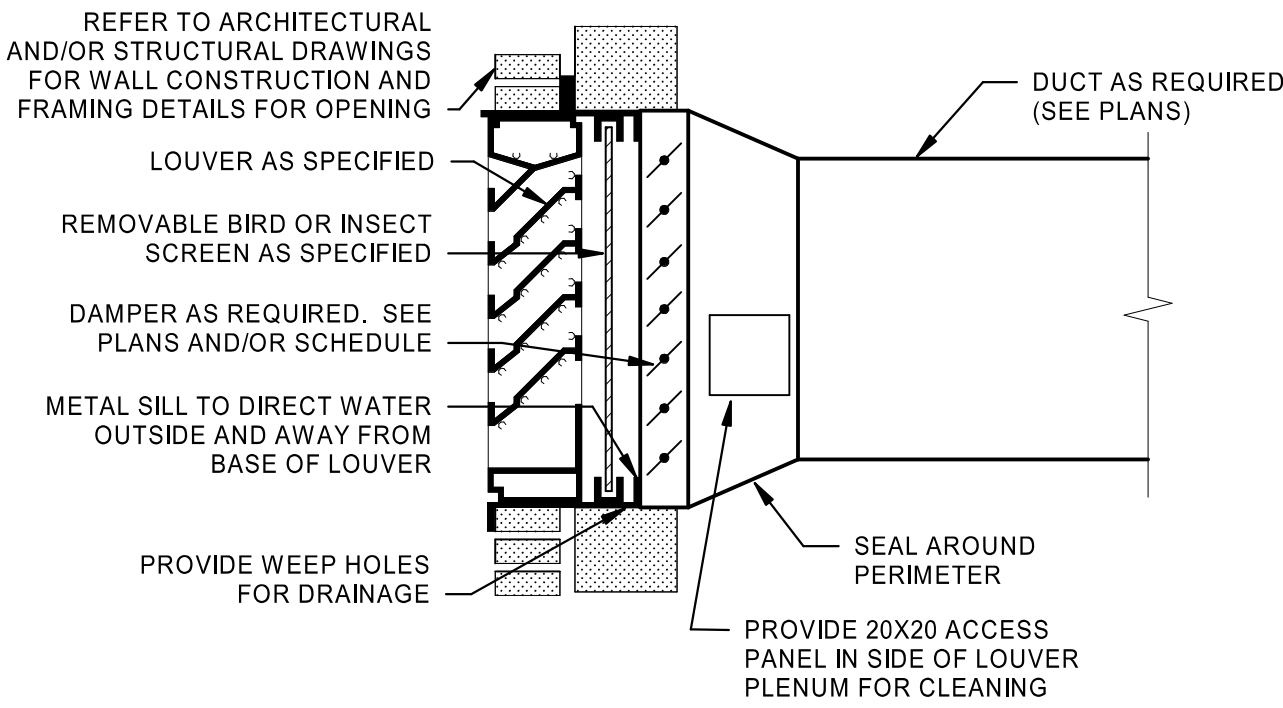
N-M500

BID SET



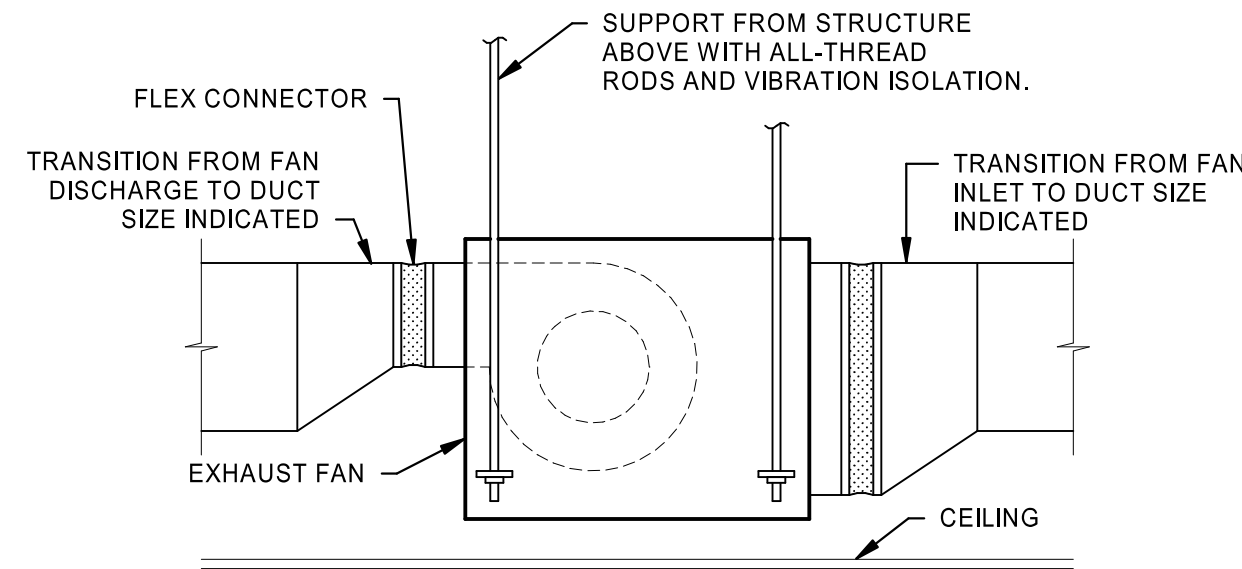
NOTES:
1. SEAL ALL JOINTS AND SEAMS OF PLENUM AND DUCT TO PROVIDE WATER TIGHT CONSTRUCTION. PROVIDE INSULATION FOR PLENUM AND DUCT PER SPECIFICATIONS.

1 INTAKE LOUVER INSTALLATION DETAIL
NTS

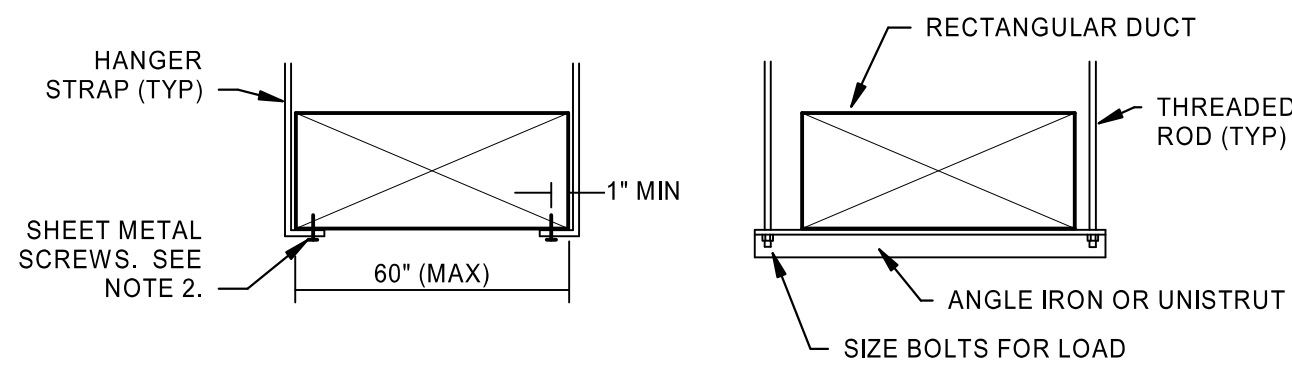


NOTES:
1. SEAL ALL JOINTS AND SEAMS OF PLENUM AND DUCT TO PROVIDE WATER TIGHT CONSTRUCTION. PROVIDE INSULATION FOR PLENUM AND DUCT PER SPECIFICATIONS.

2 EXHAUST LOUVER INSTALLATION DETAIL
NTS

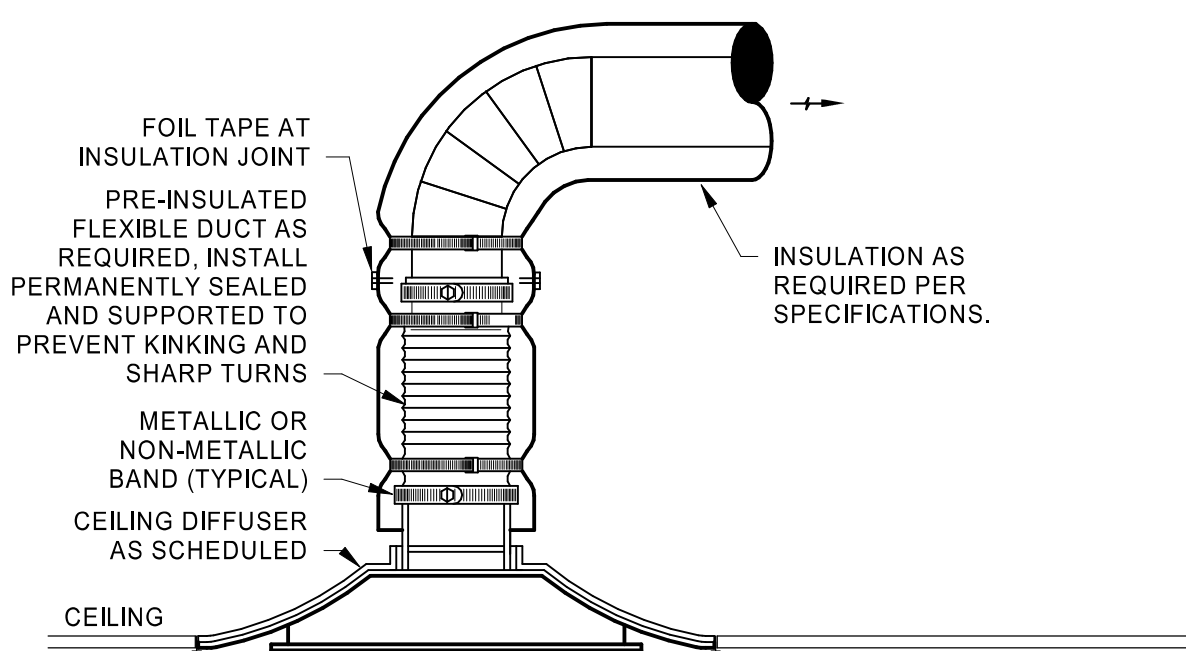


3 IN-LINE CABINET EXHAUST FAN DETAIL
NTS



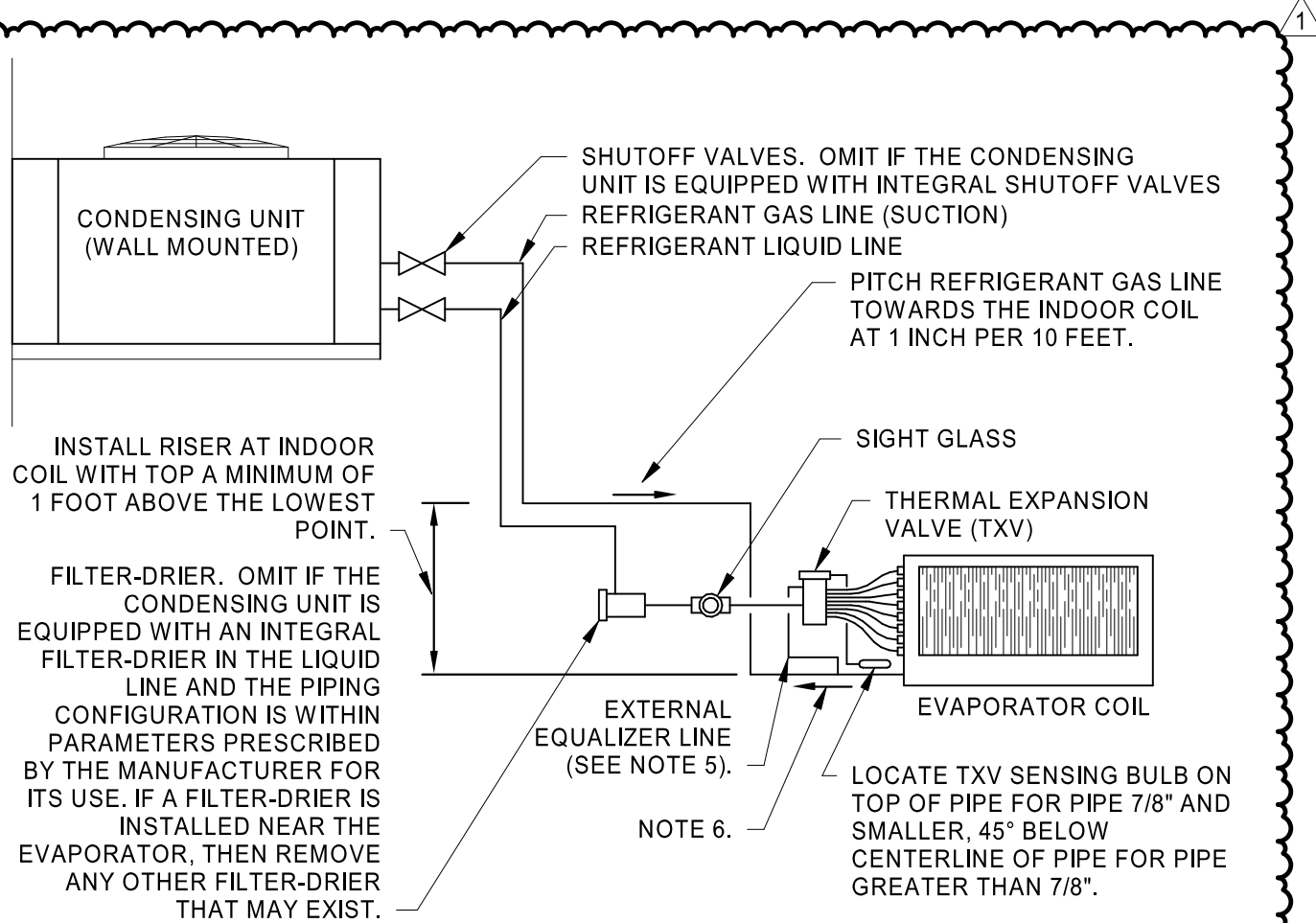
NOTES:
1. USE THREADED ROD FOR RECTANGULAR DUCTS LARGER THAN 60" WIDE.
2. OMIT SHEET METAL SCREWS IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE RECTANGULAR DUCT.
3. HANGERS MUST NOT DEFORM DUCT SHAPE.

4 DUCT HANGER LOWER ATTACHMENT DETAILS
NTS



NOTES:
1. MAXIMUM FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 2'-0".

5 FLEXIBLE RETURN EXHAUST AIR GRILLE DETAIL
NTS



NOTES:
1. INSTALL REFRIGERANT PIPING AND COMPONENTS IN STRICT CONFORMANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS, WHICH SHALL TAKE PRECEDENT OVER INFORMATION PRESENTED IN THIS DETAIL.
2. ALL COMPONENTS INSTALLED SHALL BE THE EXACT MODEL RECOMMENDED BY THE MANUFACTURER.
3. CONSULT THE MANUFACTURER REGARDING THE NEED TO INSTALL A SOLENOID VALVE IN THE LIQUID LINE BETWEEN THE FILTER-DRIER AND SITE GLASS.
4. INSTALL REFRIGERATION PIPE SIZES RECOMMENDED BY THE MANUFACTURER AND CONSULT THE MANUFACTURER REGARDING THE NEED FOR INTERMEDIATE TRAPS BASED ON THE RECOMMENDED PIPE SIZES AND PIPING CONFIGURATION.
5. INSTALL THERMAL EXPANSION VALVE WITH BALANCED PORT CONSTRUCTION AND EXTERNAL EQUALIZER LINES FOR ALL EVAPORATOR COILS EQUIPPED WITH A REFRIGERANT DISTRIBUTOR.
6. PITCH REFRIGERANT GAS LINE AWAY FROM INDOOR COIL AT 1 INCH PER 10 FEET.
7. FILTER-DRIER MAY BE OMITTED IF NOT REQUIRED BY MANUFACTURER.
8. SIGHT GLASS MAY BE OMITTED IF NOT REQUIRED BY MANUFACTURER AND SYSTEM IS LESS THAN 5 TONS.

6 SPLIT SYSTEM PIPING DETAIL
NTS

RADIANT HEATER SCHEDULE (ELECTRIC)

MARK	LOCATION	MANUFACTURER	MODEL	MOUNTING TYPE	SIZE (L" x W")	INPUT (W)	VOLTS	PHASE	NOTES
RH 1	CONCESSION	QMARK	HRK42020	SURFACE	5.5"x46"	2000 W	208 V	1	A,B
RH 2	CONCESSION	QMARK	HRK42020	SURFACE	5.5"x46"	2000 W	208 V	1	A,B

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

- NOTES:
- A. DIVISION 26 TO PROVIDE SINGLE TIMER SWITCH TO CONTROL 2 RADIANT HEATERS.
 - B. DIVISION 26 TO PROVIDE LINE VOLTAGE THROUGH TIMER SWITCH TO UNITS.

UNIT HEATER SCHEDULE (ELECTRIC)

MARK	AREA SERVED	MANUFACTURER	MODEL	MIN OUT (MBH)	NOM (KW)	MIN NO OF STAGES	CFM	MOTOR HP	THROW (FT)	V/PH	DISC TYPE	NOTES
UH 1	TICKET BOOTH NORTH	QMARK	MUH03-81	10.2	3.0	1	350	0.01	12	208/1	NON-FUSED	A,C,D,E,F,G
UH 2	TICKET BOOTH SOUTH	QMARK	MUH03-81	10.2	3.0	1	350	0.01	12	208/1	NON-FUSED	A,C,D,E,F,G
UH 3	CONCESSION	QMARK	MUH05-81	17.0	5.0	2	350	0.01	12	208/3	NON-FUSED	A,B,E,F
UH 4	MEP	QMARK	MUH03-81	10.2	3.0	1	350	0.01	12	208/1	NON-FUSED	A,B,E,F

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- NOTES:
- A. MOUNT 8 FEET ABOVE FINISHED FLOOR WITHOUT OBSTRUCTING AIRFLOW.
 - B. PROVIDE WITH WALL MOUNTED THERMOSTAT.
 - C. DIVISION 26 TO PROVIDE TIMER SWITCH.
 - D. DIVISION 26 TO PROVIDE LINE VOLTAGE THROUGH TIMER SWITCH TO UNIT.
 - E. PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR HORIZONTAL DISCHARGE MOUNTING.
 - F. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH INSTALLED ON SERVICE SIDE OF UNIT.
 - G. PROVIDE WITH FACTORY MOUNTED THERMOSTAT.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	SERVICE	MODEL	CONSTRUCTION TYPE	FACE TYPE	MOUNTING LOCATION	BORDER TYPE	FACE SIZE (IN)	MAX NC	MAX PRESS DROP (IN W.C.)	NOTES
CEG1	PRICE	EXHAUST	630	ALUMINIUM	LOUVERED	CEILING	SURFACE	18"x12"	30	0.08	A,B,C,D
CEG2	PRICE	EXHAUST	PDDR	ALUMINIUM	PERFORATED	CEILING	SURFACE	24"x24"	30	0.08	A,B,D
RG1	PRICE	RETURN	630	ALUMINIUM	LOUVERED	WALL	SURFACE	REFER TO PLANS	30	0.05	A,C,D
SG1	PRICE	SUPPLY	630	ALUMINIUM	LOUVERED	WALL	SURFACE	REFER TO PLANS	30	0.08	A,C,D
TG1	PRICE	TRANSFER	630	ALUMINIUM	LOUVERED	WALL	SURFACE	REFER TO PLANS	30	0.08	A,B,C,D

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

- NOTES:
- A. NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
 - B. BAKED ENAMEL FINISH, WHITE TO MATCH CEILING COLOR.
 - C. FRONT BLADES PARALLEL TO LONG DIMENSION.
 - D. FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN.

FAN SCHEDULE

MARK	LOCATION	SERVICE DESCRIPTION	MANUFACTURER	MOUNTING	MODEL	CFM	ESP (IN)	NOM HP	FAN RPM	DRIVE (BELT/DIRECT)	ELECTRICAL V/PH	DISC TYPE	WEIGHT (LBS)	NOTES
EF 1	CONCESSION	EXHAUST	GREENHECK	INLINE	50-100-VG	800	0.25	0.25	1154	DIRECT	115/1	NON-FUSED	45	A,B,C,D
TF 1	CONCESSION	TRANSFER	GREENHECK	WALL	CBF	500	0.20	0.05	1050	DIRECT	115/1	NON-FUSED	17	B,C,E
TF 2	WOMENS RR	TRANSFER	GREENHECK	WALL	CBF	500	0.20	0.05	1050	DIRECT	115/1	NON-FUSED	17	B,C,E

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- NOTES:
- A. PROVIDE RUBBER IN SHEAR ISOLATION AND ALL-THREAD HANGING RODS.
 - B. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
 - C. PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER FOR BALANCING PURPOSES.
 - D. PROVIDE WITH MANUFACTURER'S ELECTRONICALLY COMMUTATED (EC) MOTOR.
 - E. PROVIDE WITH WALL MOUNTED TEMPERATURE SENSOR.

LOUVER SCHEDULE

MARK	AREA SERVED	SERVICE	MANUFACTURER	MODEL	WIDTH (IN)	LENGTH (IN)	CFM	MIN FREE AREA (SF)	MAX VEL (FPM)	MAX APD (IN W.C.)	NOTES
IL 1	CONCESSIONS	INTAKE	GREENHECK	ESD-635	24"	24"	800 CFM	1.59	500 FPM	0.01 in-wg	A,B,C,E,F
EL 1	CONCESSIONS	EXHAUST	GREENHECK	ESD-635	24"	18"	800 CFM	1.11	720 FPM	0.05 in-wg	A,B,C,D

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- NOTES:
- A. PROVIDE 1/2" MESH ALUMINUM BIRD SCREEN.
 - B. PROVIDE ANNOIDIZED FINISH WITH COLOR SELECTED BY ARCHITECT.
 - C. FRAME TYPE SHALL MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECT.
 - D. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
 - E. PROVIDE WITH INTEGRAL 24 V MOTOR OPERATED DAMPER.
 - F. INTERLOCK MOTOR-OPERATED DAMPER WITH EXHAUST FAN.

SPLIT SYSTEM FAN COIL UNIT SCHEDULE (HEAT PUMP)

MARK	MANUFACTURER	MODEL	SUPPLY FAN				COOLING COIL				HEAT PUMP HEATING COIL				ELECTRICAL				STARTER TYPE	WEIGHT (LBS)	NOTES
			CFM	ESP (IN)	NOM HP	TH (MBH)	SH (MBH)	EAT (°F DB)	REFR TYPE	MIN OUT (MBH)	AMBIENT (DB)	EAT (°F DB)	HTG LAT	V/PH	MCA	MOCP	DISC TYPE				
FCU 1	MITSUBISHI	PEAD-A12IPUZ-A12	420	0.20	0.01	12.0	10.0	80.0	67.0	R-410A	10.5	5 °F	55 °F	85 °F	208/1	11	28	NON-FUSED	INTEGRAL	58	A-L

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

- NOTES:
- A. EQUIPMENT COMPONENTS SHALL BE BY THE SAME MANUFACTURER.
 - B. FOR COOLING, EQUIPMENT SIZED FOR 100° F AMBIENT TEMPERATURE.
 - C. HEAT PUMP HEATING CAPACITY BASED ON AMBIENT TEMPERATURE LISTED.
 - D. PROVIDE 2" PLEATED THROWAWAY AIR FILTERS.
 - E. PROVIDE FACTORY MOUNTED STARTER AND DISCONNECT SWITCH.
 - F. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT WITH STAGED HEATING AND COOLING CAPABILITY AS REQUIRED FOR OPERATION OF HEATING, COOLING CONTROLS.
 - G. SUSPEND FAN COIL UNIT FROM STRUCTURE IN HORIZONTAL POSITION WITH ALL -THREAD ROD AND SPRING VIBRATION ISOLATION (2" MINIMUM DEFLECTION).
 - H. PROVIDE WALL MOUNTING BRACKET FOR CONDENSING UNIT.
 - J. ROUTE CONDENSATE DRAIN PIPING FROM UNIT TO NEAREST FLOOR DRAIN AND TERMINATE WITH CODE-APPROVED AIR GAP.
 - K. PROVIDE AUXILIARY DRAIN PAN WITH FLOOD DETECTOR SWITCH TO SHUT OFF UNIT WHEN WATER IS PRESENT IN DRAIN PAN.] [AUXILIARY DRAIN PROVIDED BY PLUMBING CONTRACTOR.]
 - L. PROVIDE CUSTOM COLOR FINISH ON CONDENSING UNIT. COORDINATE COLOR WITH ARCHITECT.

SEQUENCE OF OPERATIONS MISCELLANEOUS EQUIPMENT

EXHAUST FAN (EF-1) OPERATING MODES

UNOCCUPIED MODE:

The unit shall be in unoccupied mode when the room light switch is turned on.

OCCUPIED MODE:

The unit shall be in occupied mode for all periods when the room light switch is turned off.

COMPONENT CONTROL LOOPS:

The unit shall be controlled by the room lighting controls system. A 2 position motorized damper at the intake louver shall be linked with the exhaust fan.

When in occupied mode:

- The unit shall run continuously.
- 2 position motorized damper at intake louver shall be open.

When in unoccupied mode:

- The unit shall be off.
- 2 position motorized damper at intake louver shall be closed.

TRANSFER FAN (TF-1,2) OPERATING MODES

STANDBY MODE:

The units shall be in standby mode when the zone temperature (Z-T) is above space temperature setpoint of 50 F.

TRANSFER MODE:

The units shall be in transfer mode when the zone temperature (Z-T) falls below space temperature setpoint of 50 F.

COMPONENT CONTROL LOOPS:

The units shall operate as an independent system. Each unit shall be controlled by a wall mounted thermostat located within the respective plumbing chase.

When in Transfer Mode:

- The unit shall remain off.
- The unit shall be on.
- The unit shall remain on until space temperature as sensed by the wall mounted thermostat is above space temperature setpoint of 50 F.

ELECTRIC UNIT HEATER (UH-3,4) OPERATING MODES

STANDBY MODE:

The units shall be in standby mode when the zone temperature (Z-T) is above space temperature setpoint.

HEATING MODE:

The units shall be in heating mode when the zone temperature (Z-T) falls below space temperature setpoint.

COMPONENT CONTROL LOOPS:

The units shall operate as an independent system. The units shall be controlled by a wall mounted thermostat located within each respective space.

When in Standby Mode:

The units shall remain off.

When in Heating Mode:

- The units shall be on.
- The units shall stage/cycle heater as required to maintain temperature setpoint of 68 F as sensed by the wall mounted thermostat.

ELECTRIC UNIT HEATER (UH-1,2) OPERATING MODES

STANDBY MODE:

The unit shall be in standby mode when the timer switch is off.

HEATING MODE:

The unit shall be in heating mode when the timer switch is on.

COMPONENT CONTROL LOOPS:

The units shall operate as an independent system. The units shall be controlled by a timer switch located within each respective room.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

- The units shall be on.
- The units shall stage/cycle heater as required to maintain temperature setpoint of 68 F as sensed by the integral thermostat.

SPLIT SYSTEM FAN COIL UNIT (FCU-1) OPERATING MODES

STANDBY MODE:

The unit shall be in standby mode when the zone temperature (Z-T) does not call for heating or cooling.

COOLING MODE:

The unit shall be in cooling mode when the zone temperature (Z-T) falls below space temperature setpoint.

HEATING MODE:

The unit shall be in heating mode when the zone temperature (Z-T) is above space temperature setpoint.

COMPONENT CONTROL LOOPS:

The unit shall operate as an independent system. The unit shall be controlled by a wall mounted thermostat located within the space.

When in Standby Mode:

The unit shall remain off.

When in Cooling Mode:

- The unit shall be on.
- The unit shall stage/cycle cooling as required to maintain space temperature setpoint of 80 F as sensed by the wall mounted thermostat.

When in Heating Mode:

- The unit shall be on.
- The unit shall stage/cycle heating as required to maintain space temperature setpoint of 68 F as sensed by the wall mounted thermostat.

RADIANT HEATER (RH-1,2) OPERATING MODES

STANDBY MODE:

The units shall be in standby mode when the timer switch is off.

HEATING MODE:

The units shall be in heating mode when the timer switch is on.

COMPONENT CONTROL LOOPS:

The units shall operate as an independent system. The units shall be controlled by a single timer switch located within the room.

When in Standby Mode:

The unit shall remain off.

When in Heating Mode:

The unit shall be on.

Lee's Summit R7 District Athletics Facilities

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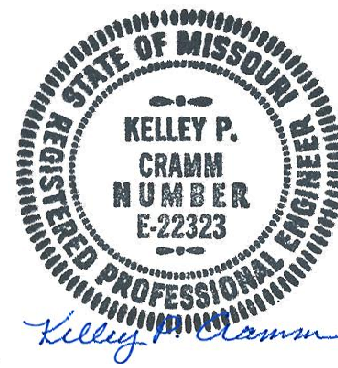
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EXPIRES 12/31/2020



Nov 6 2020

REVISIONS

NUMBER	DESCRIPTION	DATE
1	Addendum 5	10.23.2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

MECHANICAL
SCHEDULES &
CONTROLS

N-M600

BID SET

Lee's Summit R7 District
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REVISIONS		
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PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL SITE PLAN

N-E001

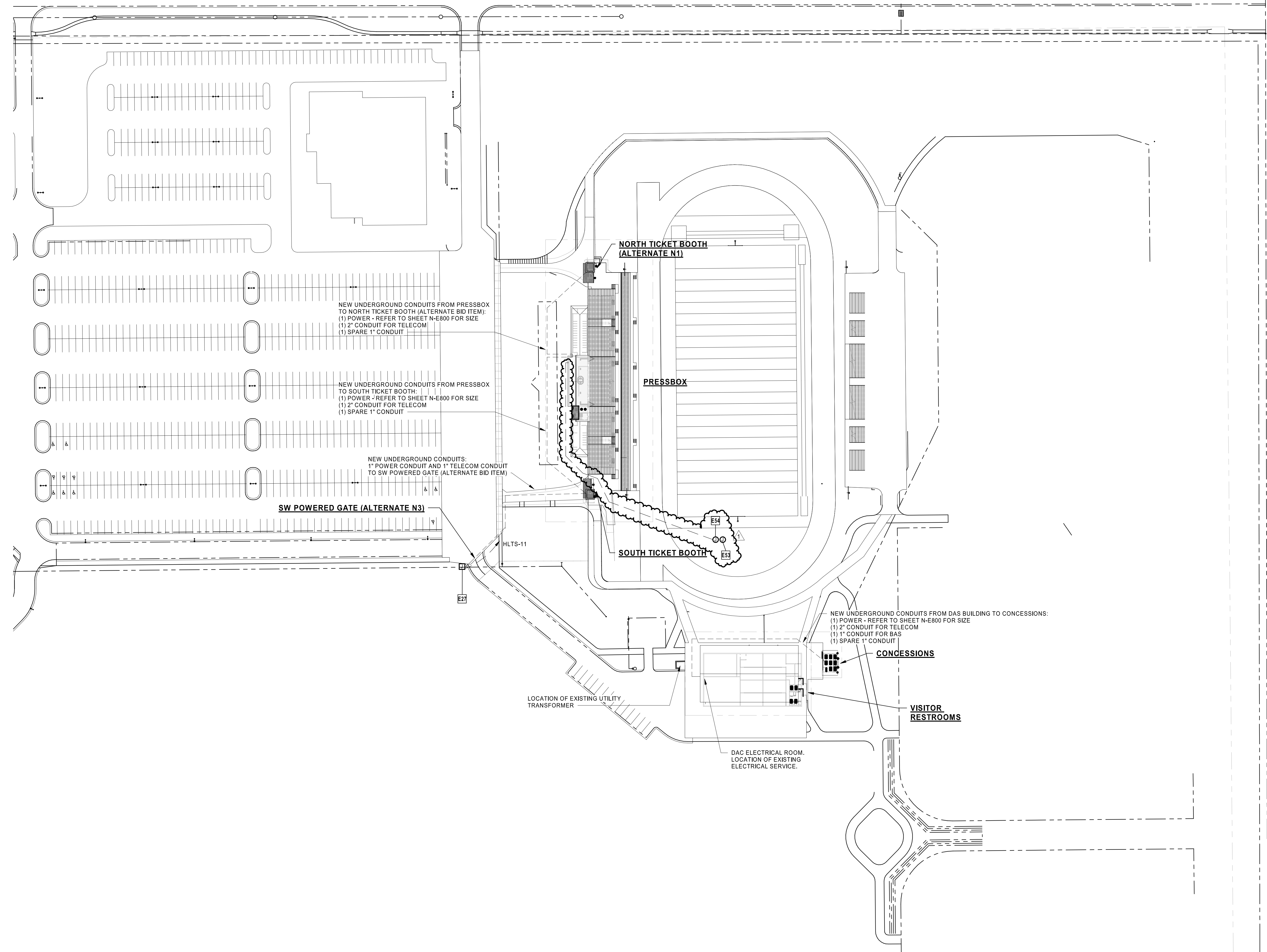
BID SET

ELECTRICAL PLAN NOTES:

- E27 PROVIDE POWER TO KEY FOB OPERATED AUTOMATIC GATE OPERATOR (ALTERNATE BID). PROVIDE UNDERGROUND CONDUITS FOR POWER AND TELECOM TO THE GATE OPERATOR.
- E53 PROVIDE CONDUIT AND WIRE TO HAND HOLE FOR CONNECTION TO FUTURE VIDEO BOARD. NEW CONDUIT SHALL BE ROUTED PARALLEL TO THE EMPTY LOW-VOLTAGE CONDUIT. PULL (Q/W) #10/8 FOR FUTURE CONNECTION. CONDUIT SHALL TERMINATE IN ELECTRICAL N1-102 NEAR HLP.
- E54 PROVIDE EMPTY 1-1/4" CONDUIT FROM COMMAND CENTER N1-202 IN PRESS BOX TO EXISTING SCOREBOARD. TERMINATE CONDUIT IN HAND HOLE NEAR SCOREBOARD FOR FUTURE CONNECTION OF LOW VOLTAGE WIRING.

SITE ELECTRICAL GENERAL NOTES:

- REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE THE FINAL LOCATION OF ALL SITE LIGHTING POLES, SIGNAGE, UNDERGROUND UTILITIES, CONDUITS, CIRCUITRY, TRANSFORMERS AND OTHER EQUIPMENT WITH CIVIL DRAWINGS, LANDSCAPING DRAWINGS AND OWNER PRIOR TO INSTALLATION.
- COORDINATE ALL SITE ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER INFORMATION AND OTHER TRADES AND ADJUST ELECTRICAL PROVISIONS AS REQUIRED TO MEET REQUIREMENTS.
- SITE ELECTRICAL CONDUITS SHALL BE 1" MINIMUM, UNLESS NOTED OTHERWISE, WHERE PRACTICABLE. ALL SITE ELECTRICAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE, UNLESS NOTED OTHERWISE. COORDINATE FINAL CONDUIT ROUTING WITH EXISTING OBSTRUCTIONS AND OTHER TRADES AND ADJUST AS NECESSARY.
- CAP AND MARK ALL UNDERGROUND CONDUITS PROVIDED FOR FUTURE USE AND INCLUDE PULL STRINGS. PROVIDE DIMENSIONED LOCATIONS OF TERMINATION POINTS ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER.
- MINIMUM WIRE SIZE FOR SITE ELECTRICAL CIRCUITS SHALL BE #10 AWG CU, UNLESS NOTED OTHERWISE.
- PROVIDE SPLICE AND PULL BOXES FOR SITE LIGHTING AND SITE ELECTRICAL POWER TO LIMIT MAXIMUM CONDUIT RUN TO 300'. PLACE BOXES IN A PLANTER AREA CLEAR OF VEGETATION WHEREVER PRACTICABLE. (COORDINATE FINAL LOCATION WITH CIVIL, LANDSCAPE CONTRACTOR AND OWNER). BOXES SHALL BE SUITABLE FOR LOCATION AND PROPERLY SIZED FOR QUANTITY AND SIZE OF CONDUITS IN AND OUT AND SHALL BE MARKED "ELECTRICAL". NOT ALL OF THESE BOXES ARE SHOWN ON SITE ELECTRICAL DRAWINGS. CONTRACTOR SHALL PROVIDE LOCATION ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER. SPLICE BOX SHALL BE APPROPRIATE FOR LOCATION AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SPLICE BOX SHALL HAVE A MINIMUM NOMINAL SIZE OF 12"x12"x12" SHALL BE AN OPEN BOTTOM NRTL LISTED UNDERGROUND ENCLOSURE, AND SHALL AT A MINIMUM BE TIER 15 TRAFFIC RATED.



1 ELECTRICAL SITE PLAN
1" = 60'-0"

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LIGHTING GENERAL NOTES:

1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE, 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAXIMUM RATIO ALONG THE EMERGENCY EGRESS PATHS, WHERE APPLICABLE. ADJUSTING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.
2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED (12") ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING, UNLESS NOTED OTHERWISE. CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO (12-47) AFF IN CUSTOMER AREAS OPEN TO STRUCTURE, AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH AHJ AND OWNER.
3. SUSPEND BACK OF HOUSE, RECEIVING AND STOCKROOM AREA LIGHT FIXTURES AS HIGH AS PRACTICABLE IN ORDER TO AVOID DAMAGE DURING STOCKING, UNLESS NOTED OTHERWISE. SUSPEND JUST BELOW REFRIGERATION PIPING, DUCTWORK AND SIMILAR OBSTRUCTIONS WHERE NECESSARY TO AVOID SHADOWS. COORDINATE REQUIREMENTS WITH OWNER AND OTHER DISCIPLINES PRIOR TO INSTALLATION.
4. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "MILBD-CKT8" DESIGNATION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
5. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCLOSURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
6. PER 2017 NEC 700.2 AND 700.24, ALL DIRECTLY CONTROLLED LUMINAIRES USED FOR EMERGENCY ILLUMINATION AND ALL APPLICABLE CONTROLS SHALL HAVE UL 924 LISTING OR EQUIVALENT NRTL LISTING. IF EMERGENCY LUMINAIRE OR CONTROL MANUFACTURER DOES NOT HAVE APPROPRIATE LISTING THE EMERGENCY LUMINAIRE SHALL NOT BE CONNECTED TO 0-10V DIMMING SYSTEM.

LIGHTING SUPPLEMENTAL SPECIFICATIONS:

1. REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.
2. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.
3. ALL EMERGENCY LIGHTS AND EXIT SIGNS WITH INTEGRAL BATTERY BACK-UP SHALL BE CONNECTED TO A SEPARATE UNSWITCHED CONDUCTOR BYPASSING ALL OTHER CONTROLS AND CONTACTORS, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL NOT BE SWITCHED. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING. ALLOW BATTERY TO CHARGE FOR MINIMUM OF 168 HOURS BEFORE LIGHT LEVEL TESTING. IN ORDER TO PREVENT BATTERY DAMAGE, DO NOT TURN OFF POWER FOR EXTENDED PERIODS OF TIME AFTER EMERGENCY LIGHT HAS BEEN POWERED.
4. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
5. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.
6. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSELY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

③ PRESS BOX - LEVEL 2 LIGHTING DEMO RCP
1/16" = 1'-0"

④ PRESS BOX - LEVEL 1 LIGHTING DEMO RCP
1/16" = 1'-0"

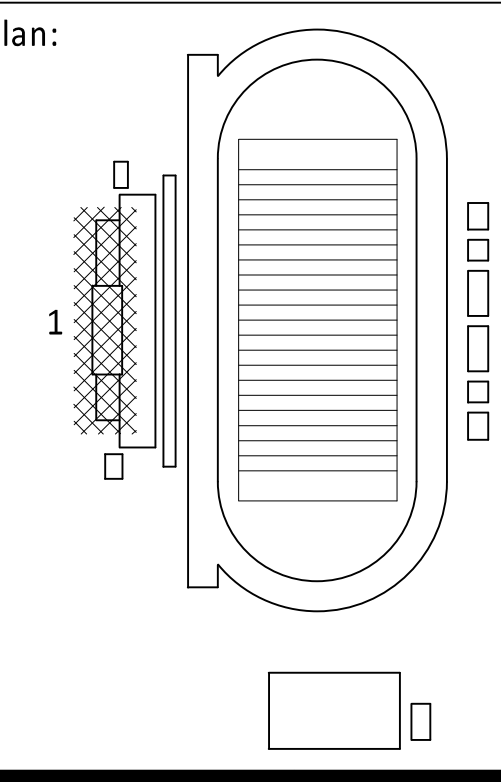
ELECTRICAL GENERAL NOTES:

1. LIGHTING IS TO BE CIRCUITED BACK TO 480/277V PANEL LOCATED IN THE SAME BUILDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
2. HSE FIXTURES ARE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR.

ELECTRICAL PLAN NOTES:

- E10 MOUNT TAPE LIGHT TO THE FACE OF THE STRUCTURAL BEAM. MOUNT AS LOW ON BEAM AS POSSIBLE. FIXTURE INTENDED TO GRAZE THE ROOF. COORDINATE EXACT LOCATION WITH STRUCTURAL MEMBERS.
- E14 EXISTING EMERGENCY LIGHTING UNIT TO REMAIN. PROTECT DURING CONSTRUCTION.
- E18 REFER TO SECTION VIEWS ON SHEET E-600 FOR STAIRWELL LIGHTING CIRCUITING.
- E19 CIRCUIT VESTIBULE LIGHTING WITH STAIRWELL LIGHTING.
- E22 LIGHT SIGNAGE GRAPHIC ON FAÇADE. COORDINATE EXACT MOUNTING LOCATION, EXACT MOUNTING HEIGHT AND INSTALLATION REQUIREMENTS WITH OWNER. SIGNAGE SHOP DRAWINGS, LIGHTING MANUFACTURER'S SPECIFICATIONS AND ARCHITECT/ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK. CONTROL VIA PHOTOCELL AND ASTRONOMICAL TIME CLOCK. TIMECLOCK TO BE LOCATED IN COMMAND CENTER N1-202. COORDINATE PROGRAMMING WITH OWNER.
- E23 NOT USED.
- E24 NOT USED.
- E26 EXISTING LEVEL 2 LIGHT FIXTURES TO BE DEMOLVED AND CIRCUIT TO BE REUSED IN PROJECT SCOPE FOR NEW LIGHT FIXTURES.
- E38 24V LED TAPE LIGHT TO BE FED FROM NEMA-3R 0-10V DIMMING (1) AND (3) OUTPUT 277/24V 96W LED DRIVERS. REFER TO LIGHT FIXTURE SCHEDULE FOR DRIVER SPECIFICATIONS. COORDINATE PLACEMENT AND NUMBER OF DRIVERS WITH FIXTURE LENGTHS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- E41 PROVIDE SUSPENDED CYLINDER LIGHT FIXTURES IN THIS AREA. COORDINATE SUSPENSION HEIGHT WITH ARCHITECT.
- E47 ROOM CONTROLLER SHOWN ABOVE HARD CEILING. COORDINATE ACCESS PANEL OR RELOCATE ROOM CONTROLLER TO ADJACENT SPACE IN UNOBTUSIVE BUT ACCESSIBLE LOCATION.
- E55 CONNECT NEW FIXTURE TO EXISTING CIRCUIT AND CONTROLS. PULL NEW CONSTANT HOT TO EMERGENCY LIGHT FIXTURE.

Key Plan:



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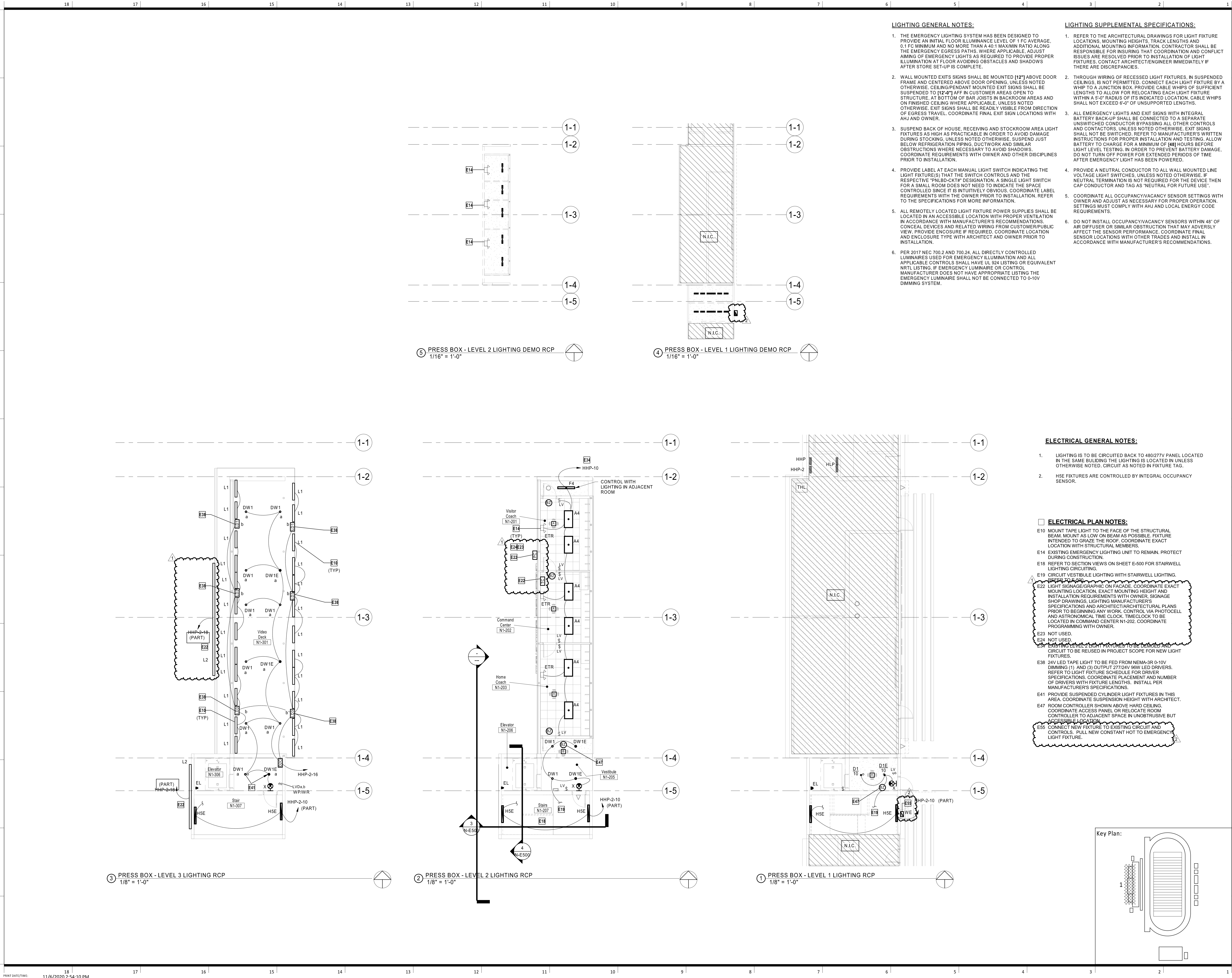
NUMBER	DESCRIPTION	DATE
1	Addendum 3	10.23.2020
2	Addendum 4	10.26.2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

PRESS BOX - LIGHTING
RCPS

N-E111

BID SET



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REVISIONS

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DATE: September 28, 2020

PRESS BOX - POWER
PLANS

N-E112

BID SET

ELECTRICAL GENERAL NOTES:

- REFER TO SHEET N-E500 FOR ELEVATOR AND ELECTRICAL EQUIPMENT PLANS.
- CIRCUITS SHOWN REFER TO 120V PANEL 'HLP' ON PRESSBOX LEVEL 1 UNLESS NOTED OTHERWISE.

ELECTRICAL PLAN NOTES:

E31 ROOF IS BEING REMOVED. CONTRACTOR TO MAINTAIN EXISTING LEVEL 2 RECEPTACLE LOCATIONS AND CIRCUITING. REWORK EXISTING CONDUITS AND WIRING AS REQUIRED TO MAINTAIN EXISTING RECEPTACLE CIRCUITS.

E33 VIDEO DECK RECEPTACLE TO BE SURFACE MOUNTED ON COLUMN. RECEPTACLE WILL NEED TO SHARE SPACE WITH DATA OUTLETS ON COLUMN. COORDINATE CONDUIT ROUTING, RECEPTACLE PLACEMENT AND INSTALLATION REQUIREMENTS WITH TECHNOLOGY PLANS, ARCHITECTURAL PLANS AND FIELD CONDITIONS.

E35 MAINTAIN EXISTING CIRCUIT CONNECTIONS FOR EXISTING BASEBOARD HEATERS. REWORK EXISTING CONDUITS AND CONDUCTORS IF REQUIRED.

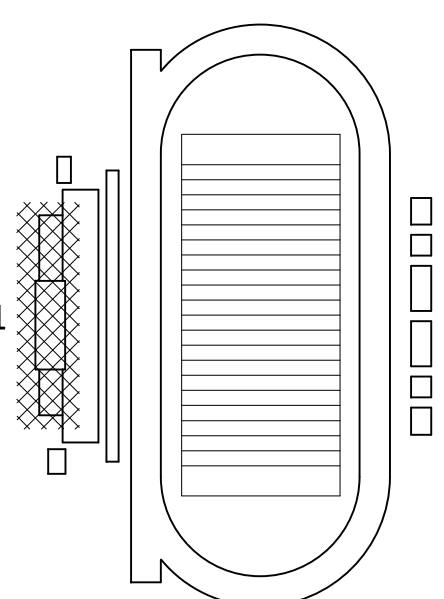
E38 EXISTING UNIT HEATER TO BE RELOCATED TO LOCATION SHOWN. EXTEND EXISTING CIRCUIT AS REQUIRED TO NEW LOCATION. REFER TO MECHANICAL PLANS SUMP.

E40 REMOVE EXISTING WIREMOLD ON THIS WALL AND REPLACE WITH NEW RECEPTACLE FOR DATA RACK. CONNECT TO EXISTING CIRCUIT.

E51 CU-1/FCU-1 EQUIPMENT CONTAINS A SINGLE POINT OF CONNECTION AT CU-1. PROVIDE CONDUIT FOR CONNECTION BETWEEN FCU-1 AND CU-1 FOR EQUIPMENT INTERCONNECTION SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

E52 UNIT HEATER TO BE RELOCATED WITH IN THE SAME ROOM. ELECTRICAL CONTRACTOR TO RELOCATE POWER AND CONNECTIONS FOR EXISTING UNIT HEATER TO LOCATION SHOWN. REWORK EXISTING CONDUITS AND CONDUCTORS AS REQUIRED. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR. MECHANICAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

Key Plan:



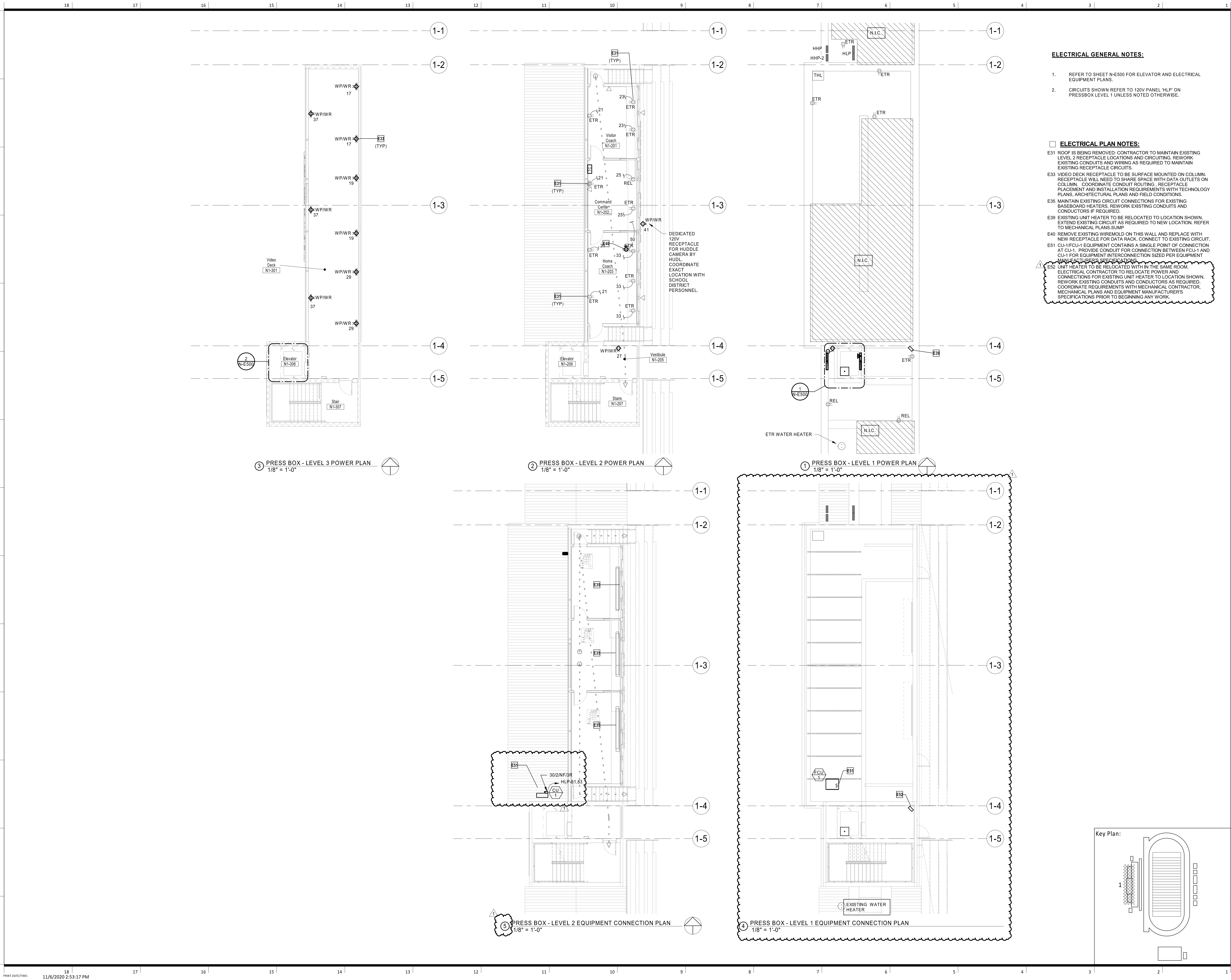
3 PRESS BOX - LEVEL 3 POWER PLAN
1/8" = 1'-0"

2 PRESS BOX - LEVEL 2 POWER PLAN
1/8" = 1'-0"

1 PRESS BOX - LEVEL 1 POWER PLAN
1/8" = 1'-0"

5 PRESS BOX - LEVEL 2 EQUIPMENT CONNECTION PLAN
1/8" = 1'-0"

4 PRESS BOX - LEVEL 1 EQUIPMENT CONNECTION PLAN
1/8" = 1'-0"



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ELECTRICAL GENERAL NOTES:

- LIGHTING AND RECEPTACLES ARE TO BE CIRCUITED BACK TO PANEL LOCATED IN THE SAME BUILDING THE LIGHTING/RECEPTACLE IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
- INTERIOR AND EXTERIOR TICKETBOOTH LIGHT FIXTURES TO BE CONTROLLED THROUGH SEPARATE OCCUPANCY SENSORS. PROVIDE WITH POWER PACK SHOWN LOCATED ABOVE TICKETBOOTH ACCESSIBLE CEILING.

ELECTRICAL PLAN NOTES:

E3 CONTRACTOR TO PROVIDE 70AM SERIES HEAVY DUTY TIMER AND LINE VOLTAGE CONTROLS WIRING FOR MANUAL CONTROL OF UNIT HEATER. COORDINATE REQUIRED TIME LENGTH WITH OWNER.

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Sep 25 2020

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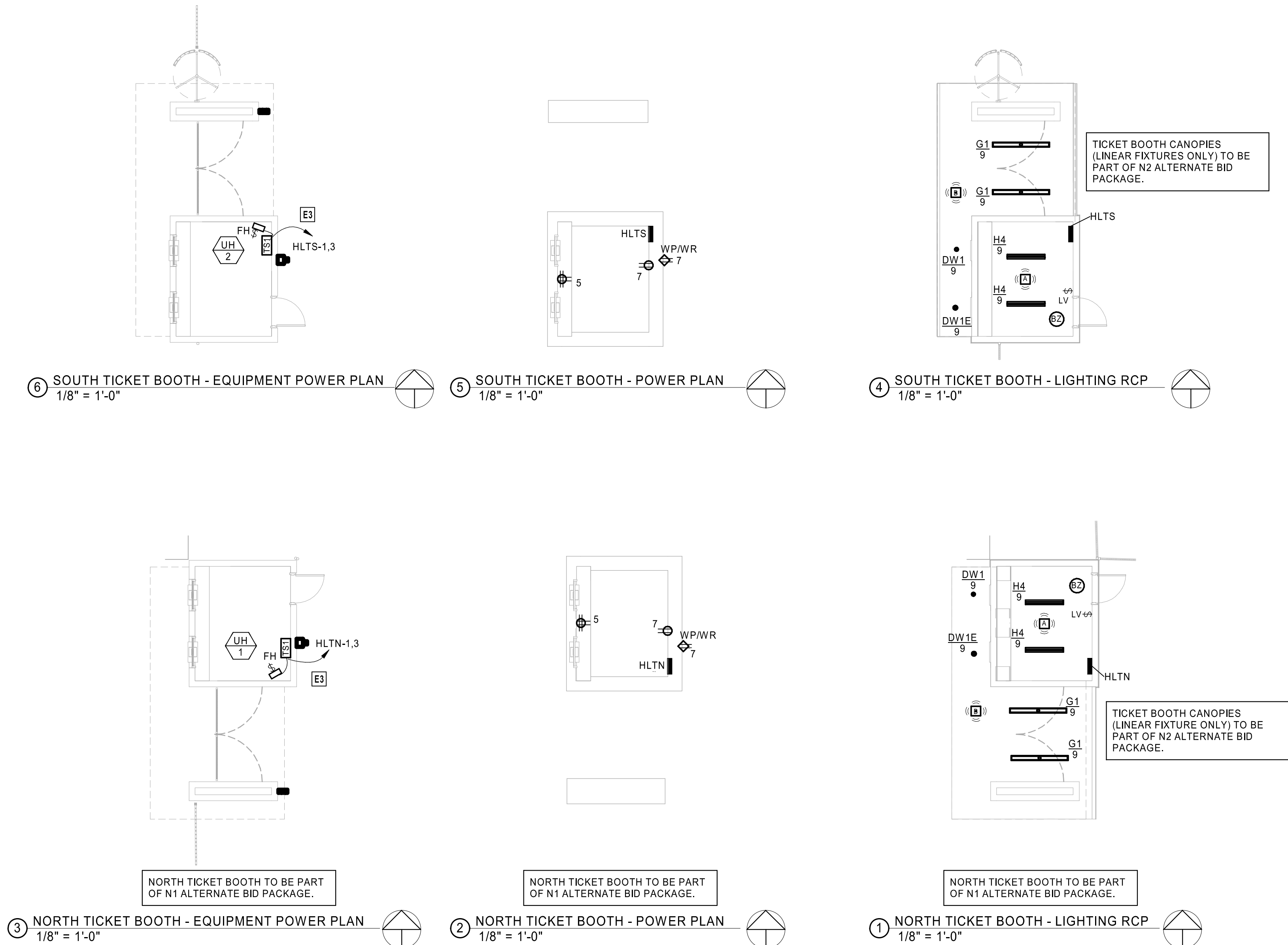
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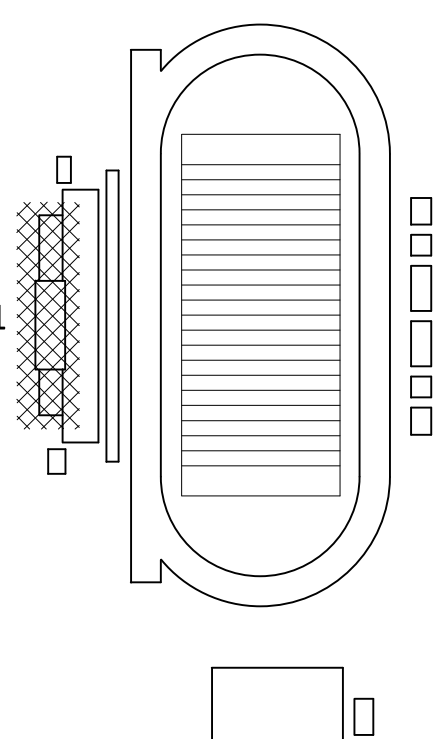
TICKET BOOTH -
ELECTRICAL PLANS

N-E121

BID SET



Key Plan:



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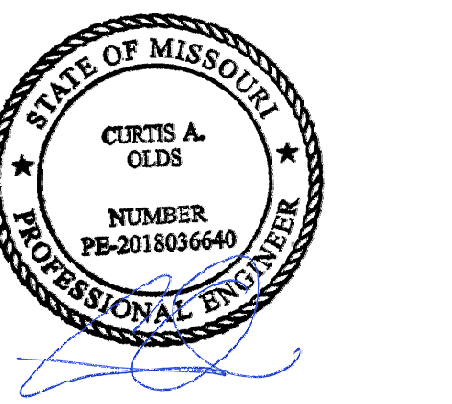
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2850002134
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Nov 9 2020

REVISIONS		
NUMBER	DESCRIPTION	DATE
1	Addendum 3	10.23.2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL DETAILS

N-E500

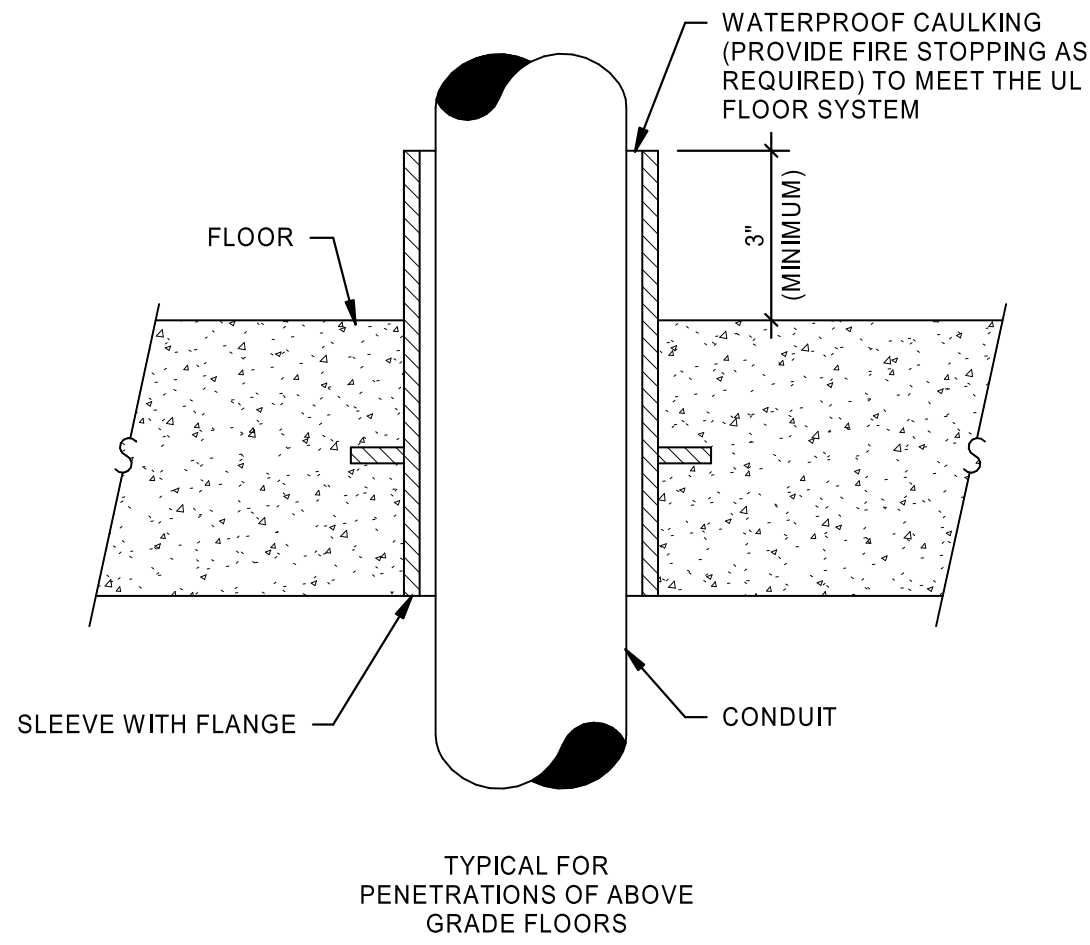
BID SET

ELECTRICAL GENERAL NOTES:

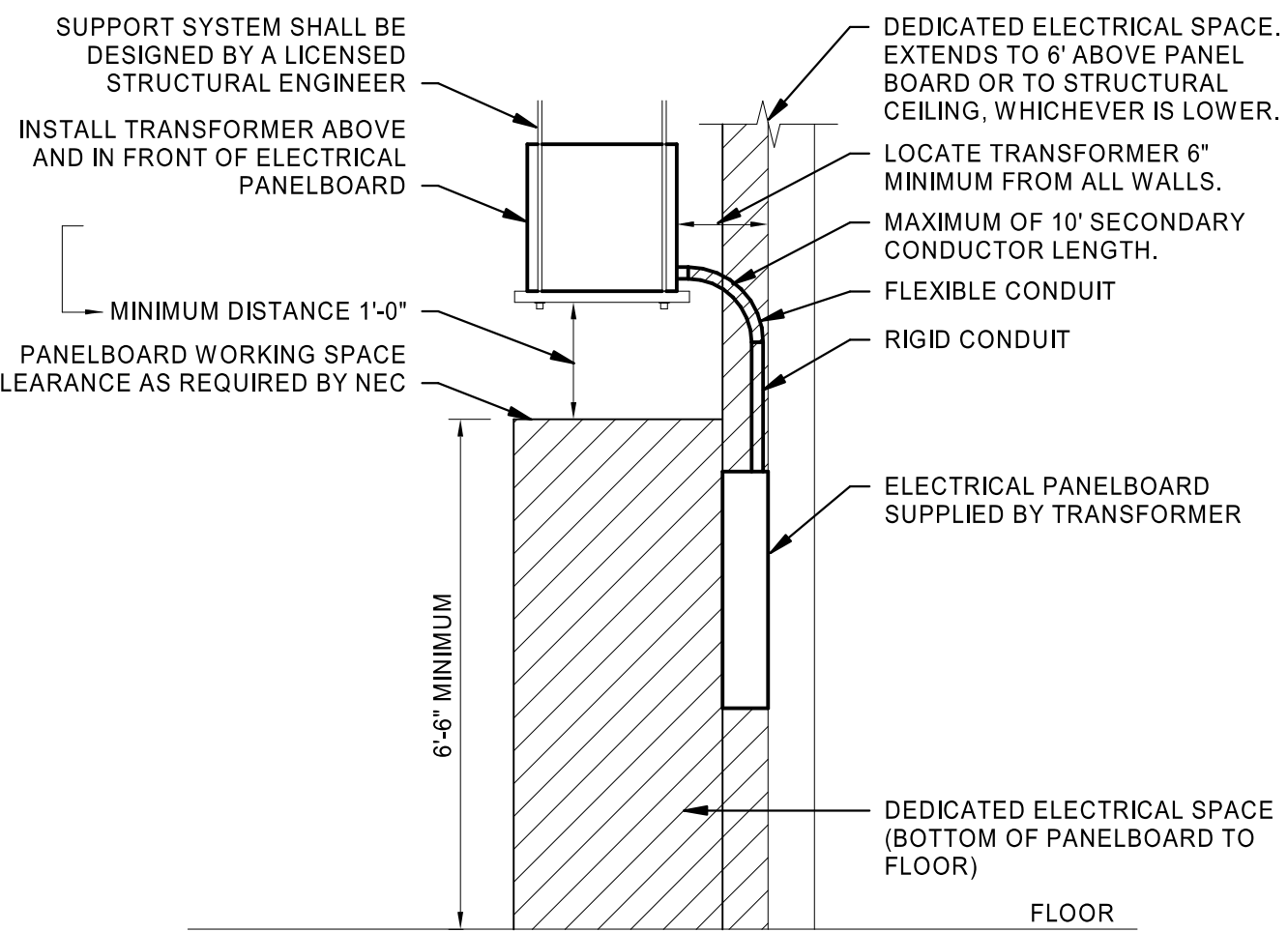
- LIGHTING IS TO BE CIRCUITED BACK TO 480/277V PANEL LOCATED IN THE SAME BUILDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
- HSE FIXTURES ARE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR.

ELECTRICAL PLAN NOTES:

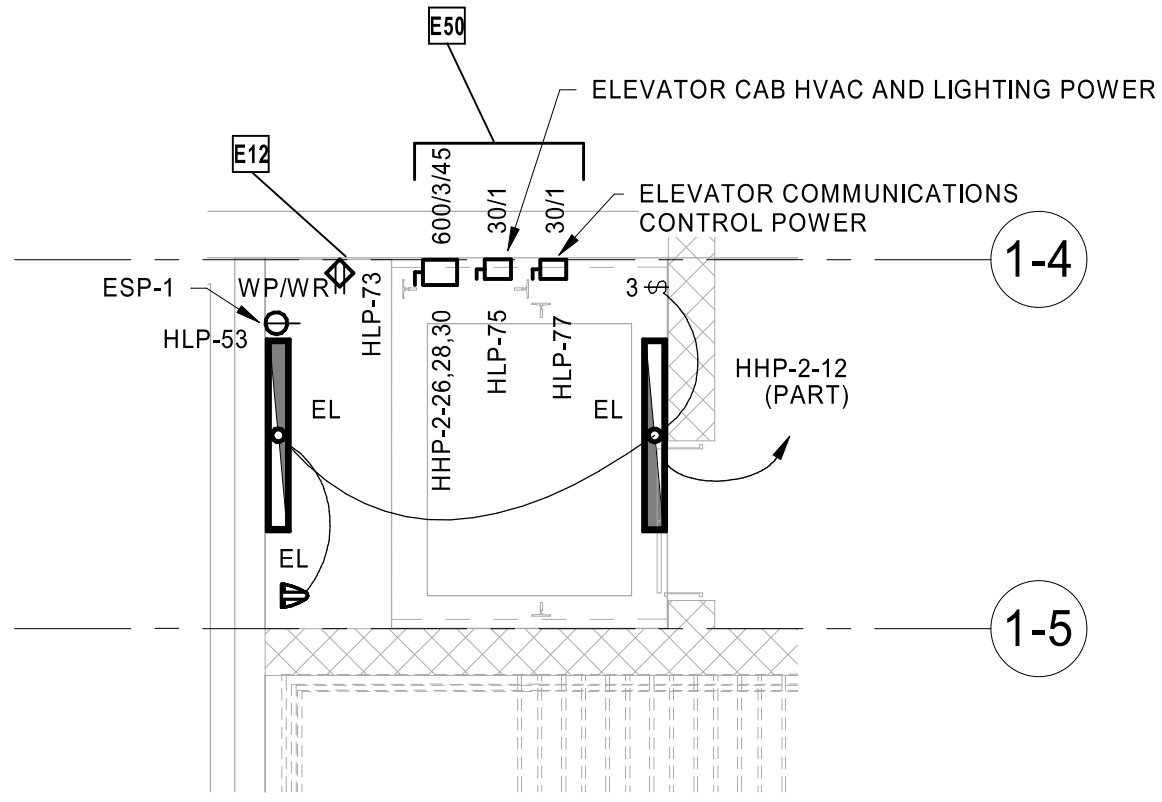
E12 MAINTENANCE RECEPTACLE LOCATED IN ELEVATOR PIT. COORDINATE EXACT LOCATION WITH ELEVATOR MANUFACTURER.
E80 POWER CONNECTION FOR ELEVATOR, CAB LIGHTING, AND CAB HVAC. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.



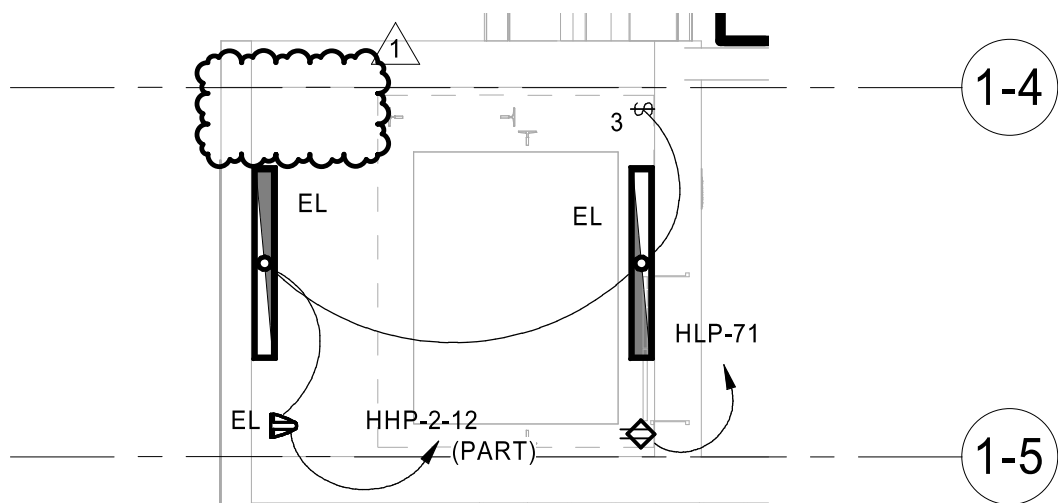
8 CONDUIT PENETRATION OF CONCRETE FLOOR
NTS



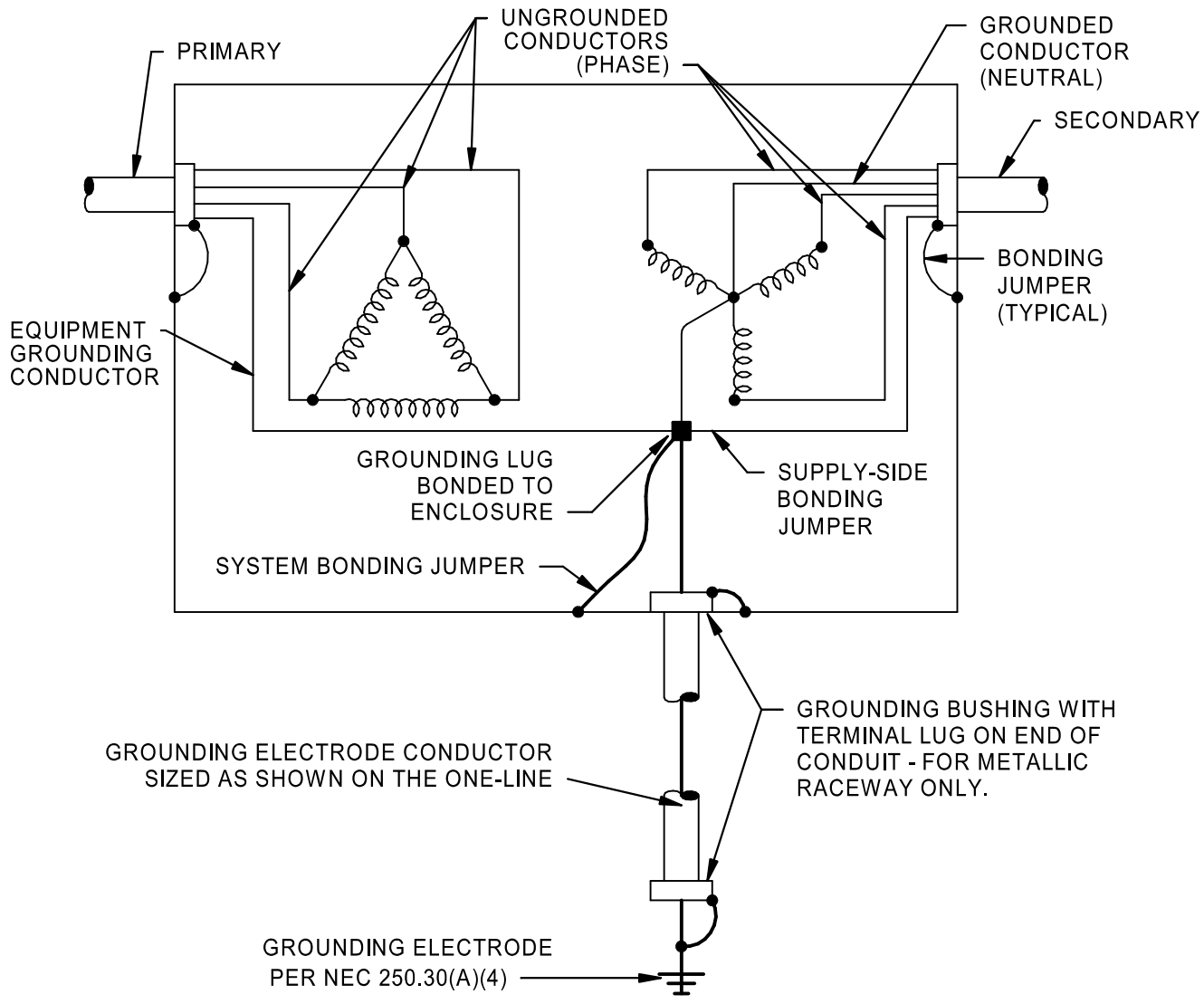
5 SUSPENDED TRANSFORMER MOUNTING DETAIL
NTS



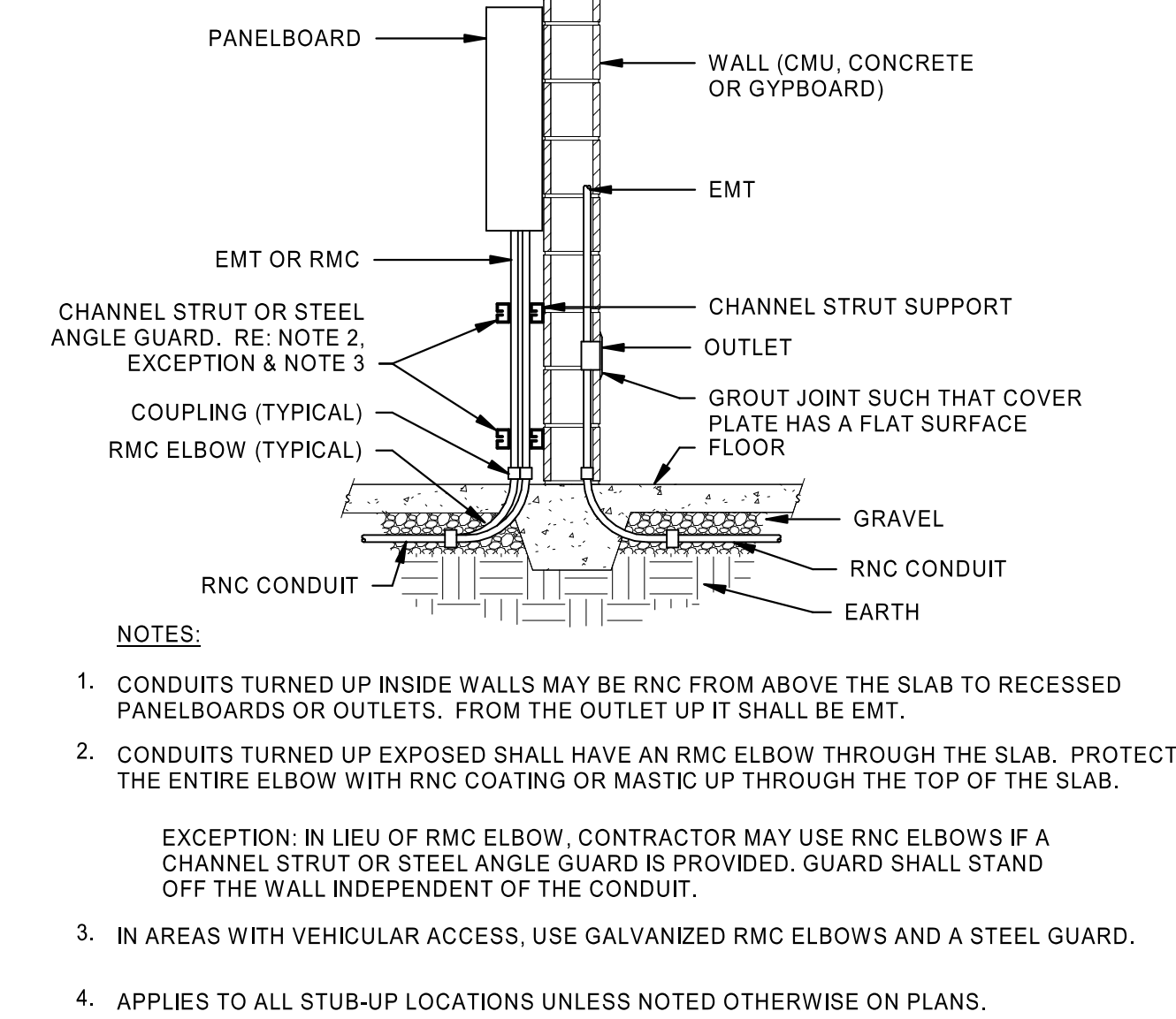
1 ELEVATOR BOTTOM OF SHAFT
1/4" = 1'-0"



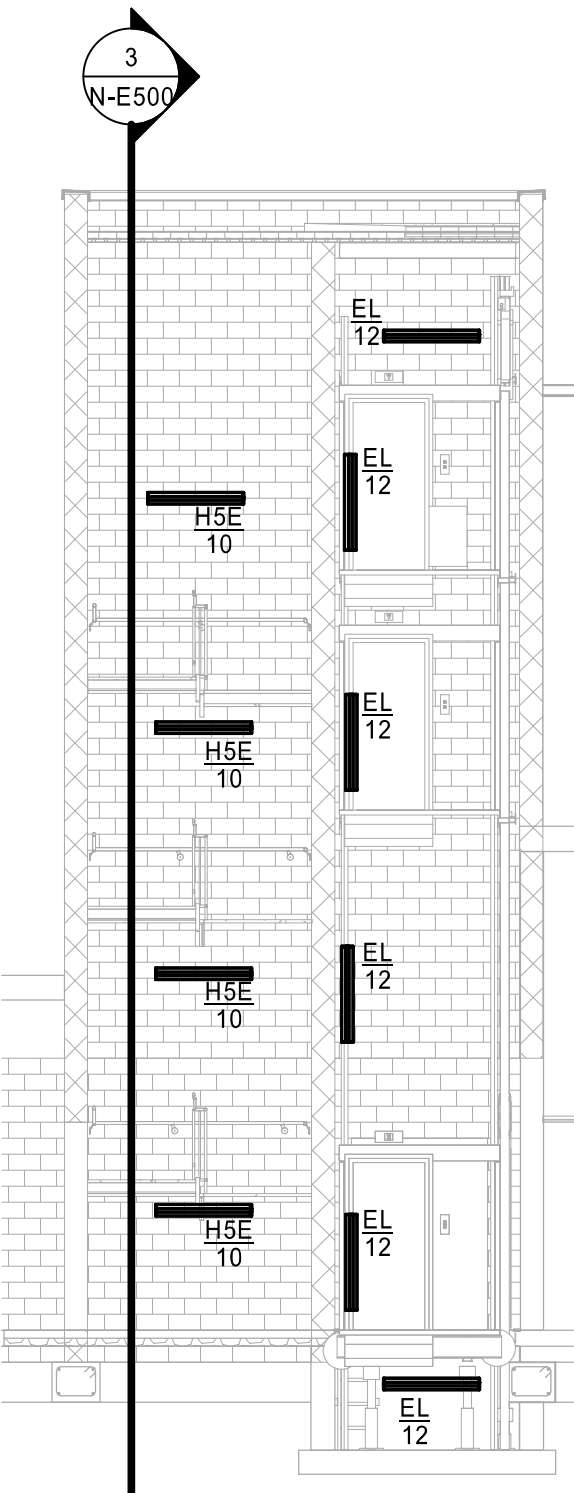
2 ELEVATOR TOP OF SHAFT
1/4" = 1'-0"



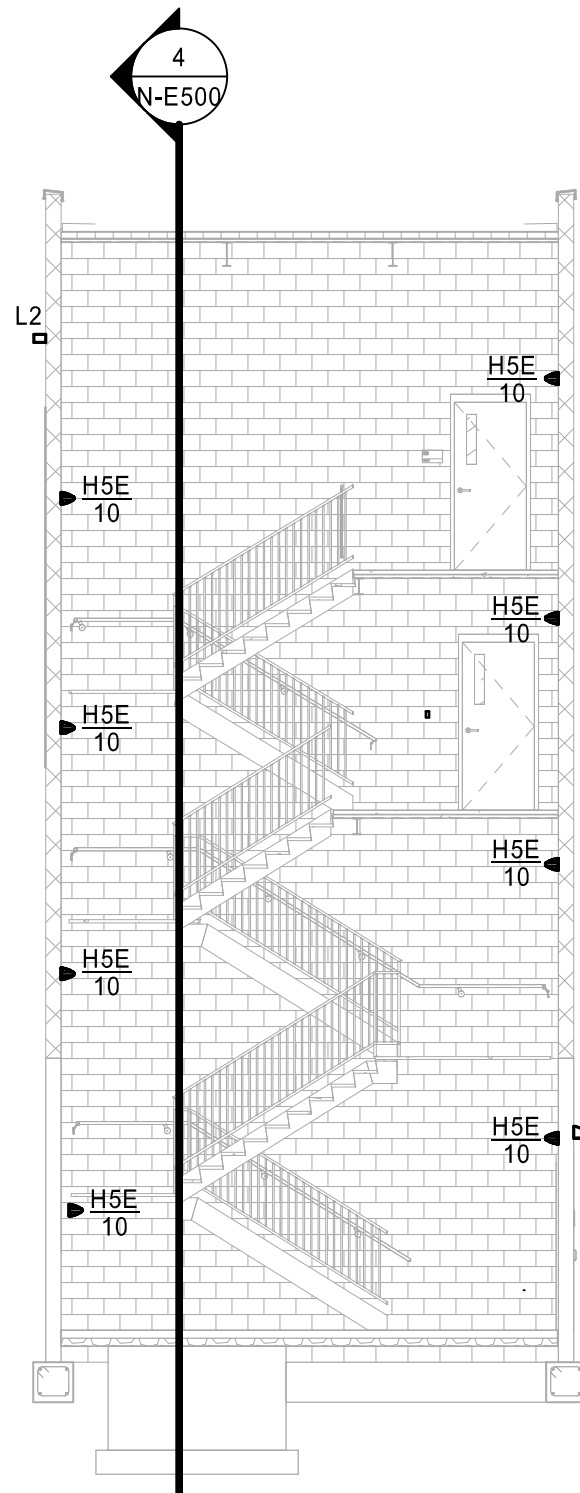
9 DRY TYPE TRANSFORMER GROUNDING
12" = 1'-0"



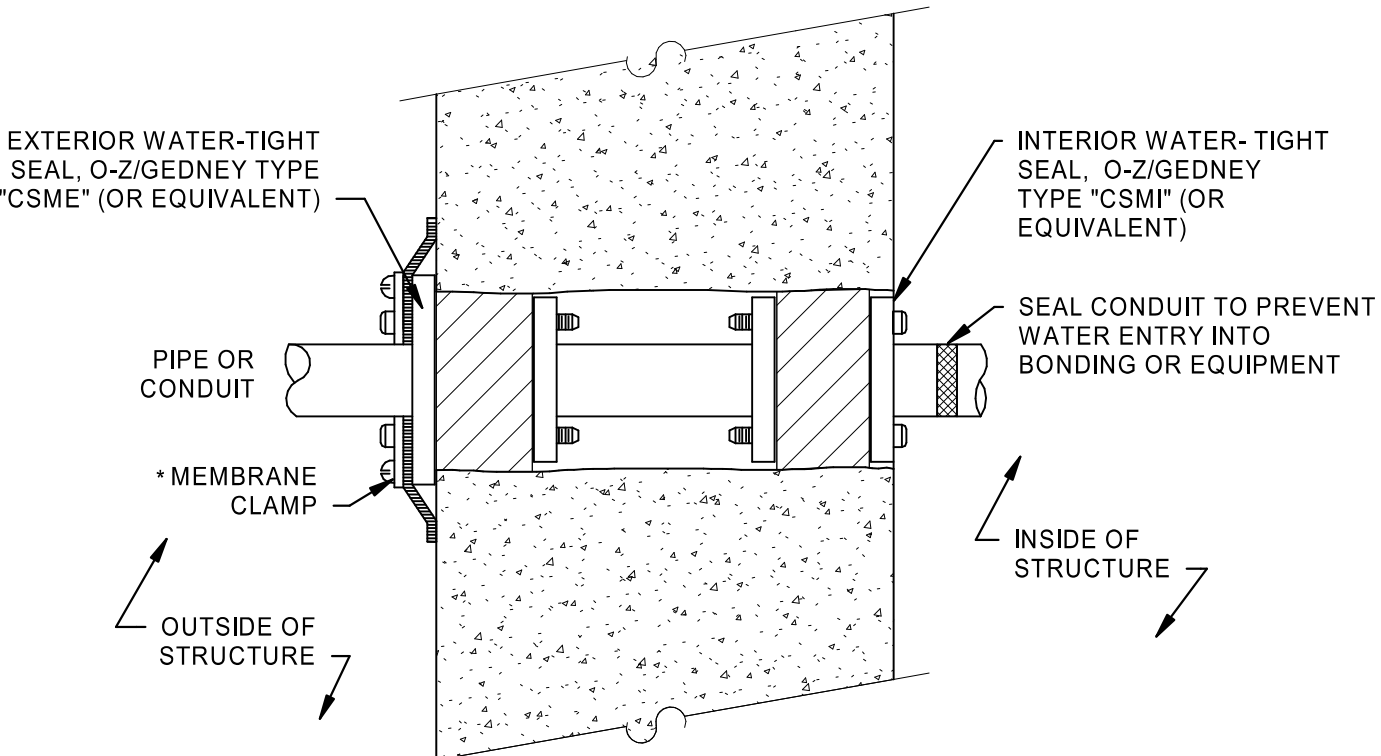
6 CONDUIT STUB-UP AT WALLS
NTS



4 STAIRS AND ELEVATOR LIGHTING
1/8" = 1'-0"

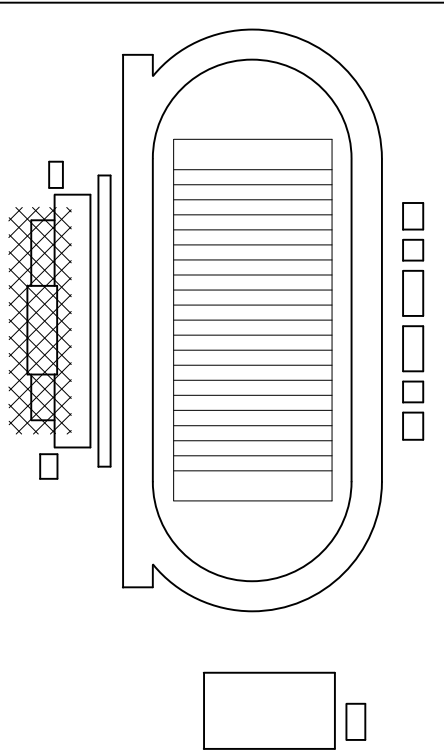


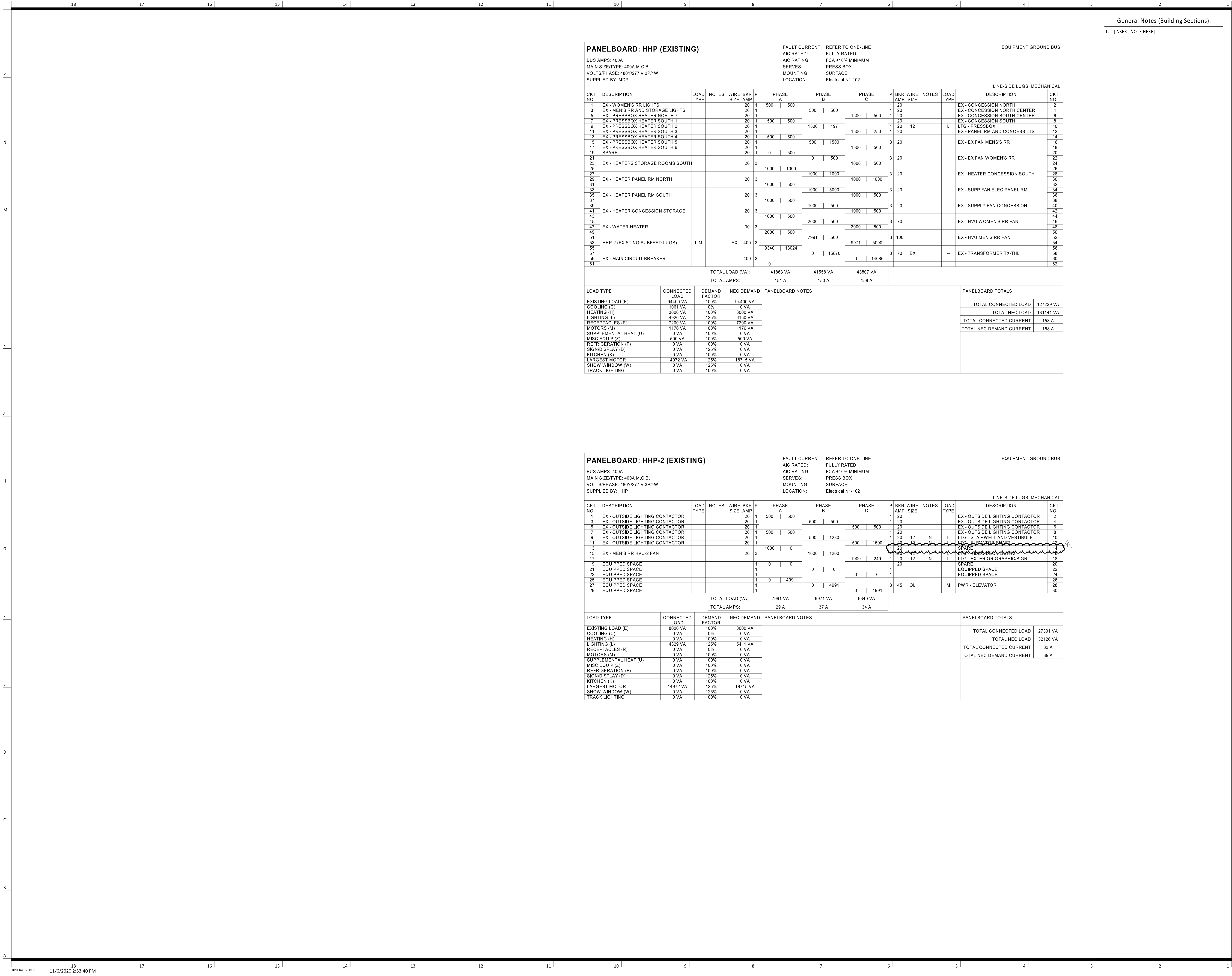
3 STAIRS LIGHTING
1/8" = 1'-0"



7 CONDUIT THROUGH EXISTING EXTERIOR WALL
NTS

Key Plan:





General Notes (Building Sections):
1. [INSERT NOTE HERE]

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phoenix • san francisco

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**Lee's Summit R7 District
Athletics Facilities**

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Lee's Summit, MO 64086

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MO. CORPORATE NO. E-556D
EXPIRES 12/31/2020



Nov 9 2020

REVISIONS
NUMBER DESCRIPTION DATE
1 Addendum 3 10.23.2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL
SCHEDULES

N-E601

BID SET

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A

LIGHTING CONTROL DEVICE SCHEDULE

STAND-ALONE LOW-VOLTAGE LIGHTING CONTROL SYSTEMS						
SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D) °	VOLTAGE	NOTES
	LEGRAND DT-300	ACUTY, COOPER HUBBELL, LEVITON	CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR, 360 DEGREE COVERAGE, LOW VOLTAGE, ISOLATED RELAY.	PIR MAJOR 36 ° PIR MINOR 25 ° ULT 36" x 36"	24	
	LEGRAND CB-100	ACUTY, COOPER HUBBELL	CEILING/WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR, 90 DEGREE COVERAGE, LOW VOLTAGE, GASKETED AND WATERTIGHT, RATED FOR -40 DEGREES FAHRENHEIT.	MAJOR 57 ° MINOR 25 °	24	
STAND-ALONE LOW-VOLTAGE PHOTOELECTRIC SWITCHES						
	LEGRAND EM-2402	ACUTY, COOPER HUBBELL, LEVITON	EXTERIOR LOW-VOLTAGE PHOTOELECTRIC SWITCH, FACE SENSOR NORTH AND ORIENT VERTICALLY, 0-15 FC.		24	
STAND-ALONE LOW-VOLTAGE POWER PACKS						
	LEGRAND B2-250	ACUTY, COOPER HUBBELL, LEVITON	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS, 20A LOAD, (1) RELAY, MANUAL- AND AUTO-ON MODES, HOLD-ON AND -OFF INPUTS, LOAD: 16A AT 120V OR 277V, OUTPUT: 225mA AT 24V, PLENUM RATED.		120V 277	
	LEGRAND C SERIES	ACUTY, COOPER HUBBELL, LEVITON	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS, 20A LOAD, (2) RELAYS, MANUAL- AND AUTO-ON MODES, HOLD-ON AND -OFF INPUTS, LOAD: 16A AT 120V OR 277V, OUTPUT: 225mA AT 24V, PLENUM RATED.		120V 277	
	LEGRAND LMC-212	ACUTY, COOPER HUBBELL, LEVITON	ROOM CONTROLLER FOR LOW VOLTAGE OCCUPANCY SENSORS, 20A LOAD, (2) RELAY, MANUAL AND AUTO-ON MODES, HOLD-ON AND -OFF INPUTS, LOAD: 16A AT 120V OR 277V, 0-10V DIMMING CONTROL.		120V 277	
STAND-ALONE LOW-VOLTAGE SWITCHES						
	LEGRAND DCC2	ACUTY, COOPER HUBBELL, LEVITON	MOMENTARY 1-BUTTON DECORATOR SWITCH FOR MANUAL ON/OFF CONTROL OF STAND-ALONE LOW-VOLTAGE OCCUPANCY SENSORS, INTEGRAL LED ILLUMINATES WHEN LOAD IS ON.		24	
	LEGRAND LMSW-104	ACUTY, COOPER HUBBELL, LEVITON	4-BUTTON LOW VOLTAGE SWITCH FOR ON/OFF AND DIMMING CONTROL OF 2 RELAYS.		24	
AUXILIARY NETWORK LIGHTING EQUIPMENT						
	LEGRAND LMC2-301	ACUTY, CRESTRON ETC, HUBBELL	ZONE CONTROLLER, ASTRONOMIC TIMECLOCK, 99 LIGHTING GROUPS, BACNET MS/TP COMPATIBLE, (2) RJ45 PORTS, SURFACE MOUNTED, PLENUM RATED, PROVIDE DLM 24V POWER BOOSTERS AS REQUIRED PER SYSTEM DESIGN.		120V 277	
GENERAL NOTES: A. OCCUPANCY SENSOR LAYOUT DESIGNED FROM BASIS-OF-DESIGN COVERAGE PATTERNS. IF SUBMITTING ALTERNATE PER EQUIVALENT MANUFACTURER' COLUMN, ADJUST SENSOR QUANTITIES AND LOCATIONS PER MANUFACTURER-SPECIFIC SPACING CRITERIA. B. PROVIDE SHOP DRAWINGS FOR ENGINEER AND ARCHITECT REVIEW THAT INCLUDE PRODUCT CUTSHEETS AND PROJECT-SPECIFIC LAYOUTS. LAYOUTS MUST INCLUDE SENSOR LOCATIONS, HEIGHTS, ORIENTATION, AND COVERAGE AREAS, SHOW COORDINATION WITH ALL OTHER CEILING DEVICES INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, LIGHT FIXTURES, AND OTHER OWNER-PROVIDED CEILING MOUNTED DEVICES SUCH AS SPEAKERS, SECURITY CAMERAS, PROJECTORS, ETC. (SENSORS MAY BE ADVERSELY AFFECTED IF LOCATED TOO CLOSE TO OTHER CEILING MOUNTED DEVICES), ALSO PROVIDE SCHEMATICS AND SCHEDULES WHEN APPLICABLE. C. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. D. VERIFY COLORS FOR ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECT. E. ALL WALL SWITCH AND CEILING SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN. UNO, CONFIRM SENSOR SETTINGS WITH SEQUENCE OF OPERATIONS AND OWNER PRIOR TO SYSTEM COMMISSIONING. F. PROVIDE COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS FOR ALL DEVICES TO OWNER. G. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL SWITCH LOCATIONS PER NEC REQUIREMENTS. H. DO NOT SHARE NEUTRAL CONDUCTOR ON LOAD SIDE OF DIMMERS.						
VERSION: 6.03						

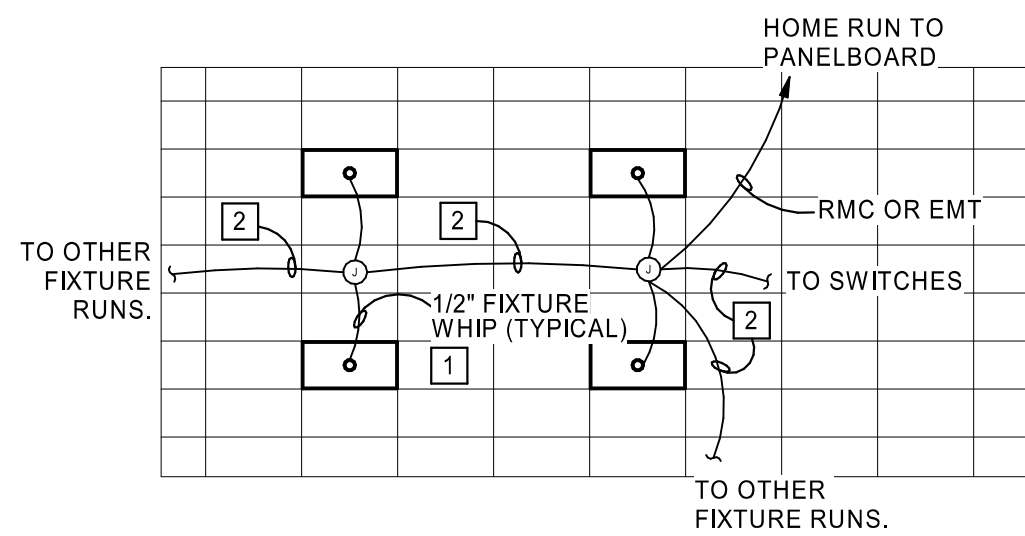
LIGHTING CONTROL SEQUENCE OF OPERATIONS:

GENERAL NOTE: CONFIRM ALL SENSOR TIME DELAYS WITH OWNER PRIOR TO FINAL PROGRAMMING.

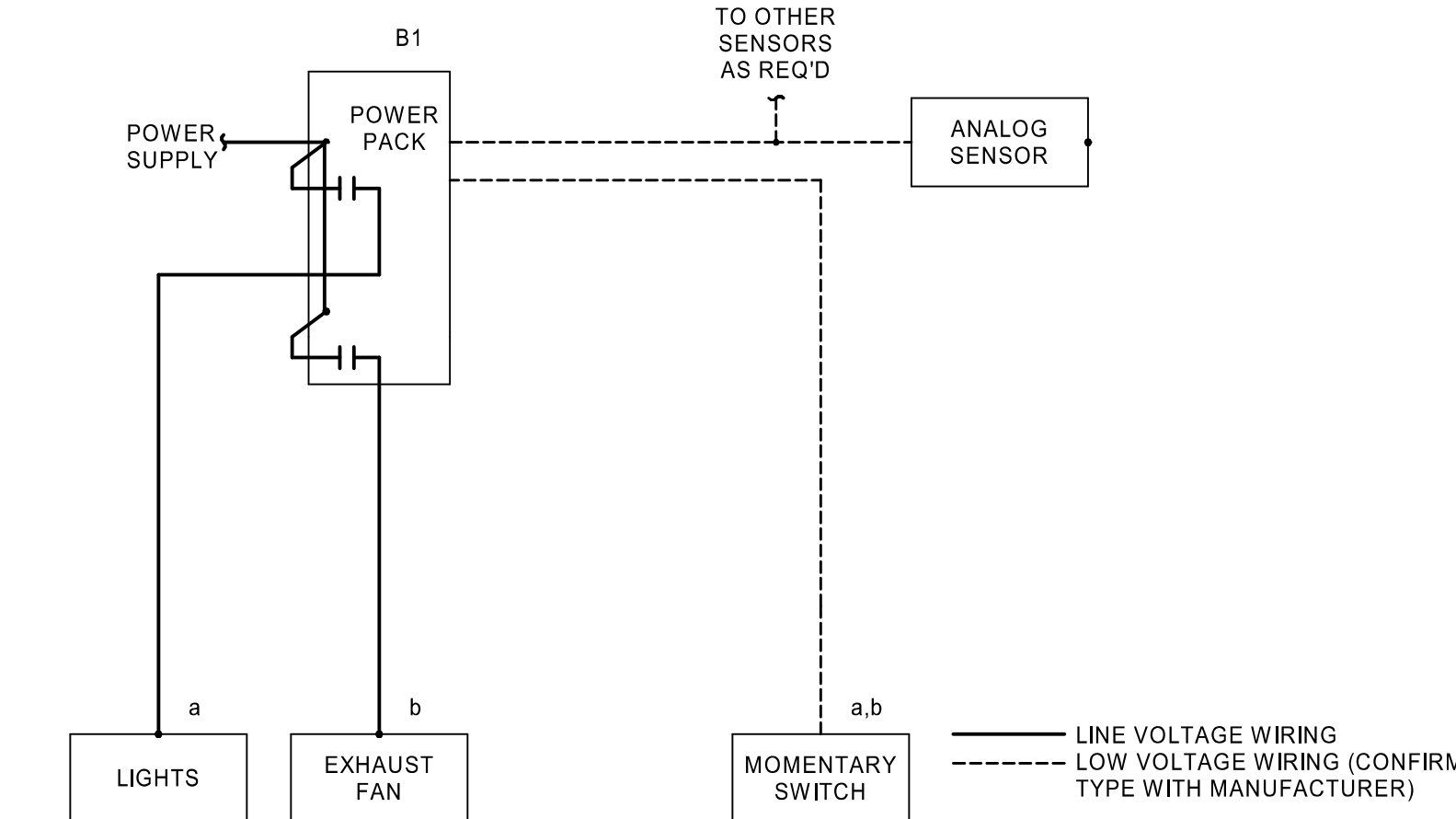
- GENERAL REQUIREMENTS**
 - Emergency Lighting: Emergency egress lighting is powered from emergency battery ballasts and drivers integral to fixtures designated as emergency. Upon loss of power, all lights designated as emergency shall turn on at full emergency battery back-up output.
 - Security Lighting: Night lights, labeled "NL" in building corridor for security purposes.
 - Lighting control type: Occupancy and Vacancy Sensors
 - Corridor, Cafeteria and Gymnasium occupancy sensors set to time out after 30 minutes
 - Offices and Classrooms sensors set to time out after 20 minutes
 - Back of house room type sensors set to time out after 20 minutes
 - All lighting controls in project scope are stand-alone type.
- POWER PACK B2**
 - Manual Control: Occupant can manually control lights via local switch(es).
 - Occupancy: Occupant must manually turn on lights.
 - Vacancy: After 20 minutes, all controlled loads shall turn off.
- POWER PACK B1**
 - Manual Control: Occupant can manually control lights and exhaust fan together via local switch(es).
 - Occupancy: Occupant must manually turn on lights and exhaust fan.
 - Vacancy: After 20 minutes, all controlled loads shall turn off.
- ROOM CONTROLLER D2C**
 - Manual Control: Occupant can manually control lights and dim via local switch(es). Switches shall dim in separate zones as designated as 'a', 'b' etc on plans.
 - Occupancy: Occupant must manually turn on lights.
 - Vacancy: After 20 minutes, all controlled loads shall turn off.
- SIGNAGE LIGHTING**
 - Automatic Control: Fixtures illuminating signs and backlit signage shall be turned on via single photocell and turned off via astronomical timeclock. Route through BAS.
 - Coordinate additional programming requirements with owner.

ELECTRICAL NOTES:

- PROVIDE SUFFICIENT LENGTH TO MOVE CENTER OF LUMINAIRE IN A 5'-0" RADIUS OF THE LOCATION SHOWN ON THE PLANS.
- RMC OR EMT (UNLESS TYPE MC CABLE IS ALLOWED BY SPECIFICATIONS, IF MORE THAN 4 CURRENT CARRYING CONDUCTORS INCLUDING NEUTRALS, MC CABLE IS NOT ALLOWED).



④ LIGHTING STANDARD LUMINAIRE WIRING NTS



NOTES:

- REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
- PROVIDE QUANTITY OF POWER PACKS AS REQUIRED BY MANUFACTURER TO SUPPORT QUANTITY OF SENSORS INDICATED ON PLANS.
- DETAIL IS DIAGRAMMATIC AND IS BASED ON WATTSTOPPER, THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
- CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.

② OCCUPANCY SENSOR DETAIL - MULTIPLE POWER SUPPLIES AND SWITCHES NTS

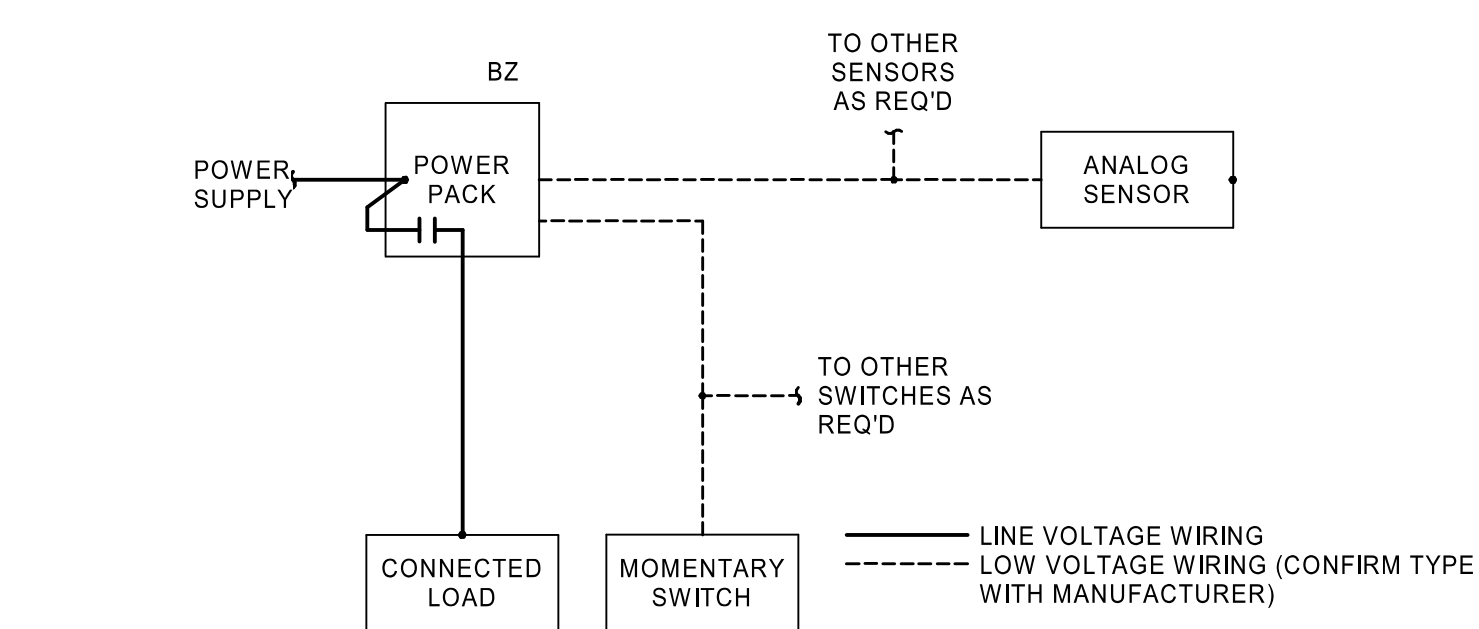
LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	POWER SUPPLY	LAMPING / LIGHT SOURCE	DIMMING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
A4	HE WILLIAMS	50"-CEILING-2-4-L33-80-35-AF12125-DIM-UNV	-	COLUMBIA LIGHTING LLT24 SERIES LITHONIA LIGHTING GTL SERIES	LED 80CRI	0-10V	UNV	28	2'x4' RECESSED LED TROFFER FOR CONCESSIONS, 3300 LUMEN, 3500K.	
A4E	HE WILLIAMS	50"-CEILING-2-4-L33-80-35-AF12125-EM-10W-DIM-UNV	-	-	LED 80CRI	0-10V	UNV	25	28	SAME AS A4 WITH INTEGRAL 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES.
A5	HE WILLIAMS	50-G-2-4-L33-80-35-AF12125-DIM-UNV	-	COLUMBIA LIGHTING LLT24 SERIES LITHONIA LIGHTING GTL SERIES	LED 80CRI	0-10V	UNV	48	52	2'x4' RECESSED LED TROFFER FOR RESTROOMS, 5900 LUMEN, 3500K.
A5E	HE WILLIAMS	50-G-2-4-L33-80-35-AF12125-EM10W-G-M-UNV	-	-	LED 80CRI	0-10V	UNV	48	52	SAME AS A5 WITH INTEGRAL 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES.
D1	COOPER LIGHTING	LDS4B-20-D010-EU4B-102035-4LBGS-1-INISH	-	CALIBER COMMERCIAL 45K45FLX2 SERIES GOTHAM EVO SERIES ACUTY BRANDS INDY LPM4LLPRM SERIES	LED 80CRI	0-10V	UNV	21	24	4" ROUND SHALLOW WET LOCATION DOWNLIGHTWITH HB26 BAR HANGAR, 2000 LUMEN, 3500K
D1E	COOPER LIGHTING	LDS4B-20-D010-EU4B-102035-4LBGS-1-INISH	-	-	LED 80CRI	0-10V	UNV	21	24	SAME AS D1 WITH REMOTE EMERGENCY DRIVER TO OPERATE A MINIMUM OF 90 MINUTES
DW1	COOPER LIGHTING	LSR2B-15-WFL55-80-35-D010-CANOPY	-	HUBBELL LIGHTING PRESOLITE LTO-PRDW GOTHAM 4" INCTO SERIES LITHONIA LIGHTING LDNCHYL SERIES	LED 80CRI	0-10V	UNV	18	20	4.5" SURFACE MOUNTED WET LOCATION LISTED DOWNLIGHT, 1500 LUMEN, 3500K, 54" BEAM.
DW1E	COOPER LIGHTING	LSR2B-15-WFL55-80-35-D010-CANOPY	-	-	LED 80CRI	0-10V	UNV	18	20	SAME AS DW1 WITH REMOTE EMERGENCY DRIVER TO OPERATE A MINIMUM OF 90 MINUTES
EL	HE WILLIAMS	96-4-L62-80-35-HIAFR-EM10W-WET1-DIM-V-UNV	-	COLUMBIA LIGHTING LXEM LITHONIA LIGHTING LEM LED SERIES	LED 80CRI	0-10V	UNV	45	50	4' LINEAR, WET LOCATION LISTED, 6200 LUMEN, 4000K
F4	FOCAL POINT	FSML-FL-625LF-UNV-LD1-TF-COLOR	-	LITECONTROL MOD 4 RECESSED LED 4L-R-D SERIES 3G LIGHTING 3G-4RLW-C Pinnacle Architectural LIGHTING EDGE EV4D SERIES MARK ARCHITECTURAL LIGHTING SLOT 4 SERIES	LED 80CRI	0-10V	UNV	26	29	4' WALL MOUNTED RECESSED LINEAR RECESSED FIXTURE FOR GYP CEILINGS, 625 LMFT, 4000K
G1	LUMENWERX	VIAWETASY5-PYC-HLO-LED-80-500-35-UNV-D11-GSM-TF-COLOR	-	LITECONTROL MOD 4 PENDANT LED 4L-P-D SERIES AXIS LIGHTING - WET BEAM 4 LED SURFACE SERIES	LED 80CRI	0-10V	UNV	30	33	6" RECESSED LINEAR WITH 500 LMFT AND ASYMMETRICAL DISTRIBUTION, SUITABLE FOR WET LOCATION.
H4	HE WILLIAMS	75L-4-L50-8-35-AF12125-DIM-UNV	-	COLUMBIA LIGHTING MPS SERIES LITHONIA LIGHTING ZL1D SERIES	LED 80CRI	0-10V	UNV	32	36	4' WALL MOUNTED LINEAR SUSPENDED/WALL MOUNTED FIXTURE
H4E	HE WILLIAMS	75L-4-L50-8-35-AF12125-EM10WLP-DIM-UNV	-	-	LED 80CRI	0-10V	UNV	32	36	SAME AS H4 WITH INTEGRAL10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES.
H5E	HE WILLIAMS	75L-4-L50-8-35-AF12125-EM10WLP-DIM-UNV-OCOWS-FSP-211-L2-120/277	-	-	LED 80CRI	0-10V	UNV	32	36	SAME AS H4 WITH INTEGRAL OCCUPANCY SENSOR AND 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES.
L1	LUMINII	WVP-4-L60-7-30-TTF-FINISH-SDGL-DIM-NV DRIVER: PS010V-96-24-LIN	-	GENLED ACOLYTE RIBBONLYTE 6.0 CALL LED 8000 SERIES QTRAN SW24S.0 SERIES	LED 80CRI	0-10V	UNV	9	10	WET LOCATION RATED 24V LED TAPE LIGHT WITH REMOTE DAMP LOCATION RATED 96WATT, 277 - 24V LED DRIVER, NARROW DISTRIBUTION, 3500K, 706 LUMEN/FT, 0 W/FT, PROVIDE CHANNEL AND ADDITIONAL WET LOCATION RATED FITTINGS FOR A FULLY FUNCTIONING TAPE LIGHTING SYSTEM.
L2	LUMENPULSE	LOGASHRAE-277-48-35K-WWRF-UMAS-DIM-ETE	-	KIM LIGHTING INT SERIES	LED 80CRI	0-10V	UNV	5	6	WET LOCATION RATED LINEAR GRADING FACADE FIXTURE WITH ASYMMETRICAL DISTRIBUTION AND ADJUSTABLE STANDOFF ARM MOUNT. SWIFT, PROVIDE END-TO-END CONTINUOUS MOUNTING TO MATCH LENGTH OF SIGN.
WE	COOPER LIGHTING	IST-AF-600-LED-E1-74FT-XX-2030-CBP	-	ELCAST LIGHTING 1495 SERIES LITHONIA LIGHTING WDGE2 LED SERIES FC LIGHTING FC1030 SERIES	LED 80CRI	0-10V	UNV	33	36	EXTERIOR WALL PACK FIXTURE WITH 90 MINUTE BATTERY BACK-UP
X	HE WILLIAMS	EXIT-X SERIES	-	DUALITE LE SERIES LITHONIA LE SERIES ISOLITE RL SERIES LITHONIA LE SERIES HE WILLIAMS EXIT SERIES	INTEGRAL LED	-	UNV	3	5	UNIVERSAL MOUNT LED EXIT SIGN.

NOTES:

- REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
- QUANTITY OF RELAYS SHOWN IS GENERIC. REFER TO PLANS, LIGHTING CONTROL DEVICE SCHEDULE, AND SHOP DRAWINGS FOR FINAL QUANTITY PER ROOM CONTROLLER.
- DETAIL IS DIAGRAMMATIC AND IS BASED ON LEGRAND, THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
- CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.
- PROVIDE SYSTEM COMMISSIONING AS REQUIRED PER ENERGY CODE.

③ ROOM CONTROLLER DETAIL - ON/OFF OR ON/OFF/0-10V DIMMING CONTROL NTS



NOTES:

- REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
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- PROVIDE SYSTEM COMMISSIONING AS REQUIRED PER ENERGY CODE.

① OCCUPANCY SENSOR DETAIL - SINGLE POWER SUPPLY AND SWITCH NTS

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Lee's Summit R7 District
Athletics Facilities

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2050002134
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Nov 9 2020

REVISIONS

NUMBER	DESCRIPTION	DATE
1	Addendum 9	10/23/2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

LIGHTING SCHEDULES

N-E700

BID SET

CURTIS A. OLDS

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9/25/2020 1:36:42 PM

Short-Circuit and Voltage Drop Calculations

Distances are for calculation purposes only and shall not be used for contractor takeoffs nor bidding - Contractor shall notify Engineer of any field condition that results in a change of 10% or greater circuit distance

The following calculations are based on the "Point-by-Point" method where:
ISC (2) = ISC(1) x M(1)
ISC (1) = short circuit current at fault point 1
ISC (2) = short circuit current at fault point 2

IP = Primary short circuit current
Vp = Primary voltage
Is = Secondary short circuit current
Vs = Secondary voltage
L = Length of circuit
E = Line to line volts
C = "C" Factor from Bussman table where "C" = 1 / Impedance per linear foot

Feeder Types =

NM - Non Magnetic Conduit, M - Magnetic Conduit, PB - Feeder Busway, PB - Plug-in Busway, TX - Transformer

Fault Point (#)	Bus/Feeder Description	Source (Fault Point)	Phase	Source Isc (amps)	Conduit Type	Material	Feeder Quantity of Parallel Sets and Bus/Phase & Neutral Size	Conductor "C" Value	Busway "C" Value	L-L Voltage (E)	Circuit Length (L)	Load Power Factor (pf)	Circuit Load (Amperage)	Conductor			Type	Degree Rise	Transformer		Tap Setting	f	M	Fault Current (amps)	Voltage Drop (%VD)	Cumulative Voltage Drop (%VD)	Fault Point (#)		
														Resistance (R)	Reactance (X)	Arcosis (pf) (Radians)			kVA	New Xlmr Z								Existing Xlmr Z	Secondary Voltage
1	Utility Service Point			51,742			at the secondary of the utility transformer																						
	Motor Contribution			480			The connected full load motor amps (includes compressors) on the system																	54922					
2	MDP		1	3	54622	M	CU	5	Set(s) of	400	kcmil	20566	--	480	60	0.9	600	0.000035	0.000049	0.451027				0.115	0.90	48988	-0.14%	-0.14%	2
3	HHP & HHP-2		2	3	48988	M	CU	2	Set(s) of	30	AWG	12844	--	480	500	0.9	200	0.000079	0.000052	0.451027				3.441	0.23	11032	-1.69%	-1.83%	3
4	TO TX-THL		3	3	11032	M	CU	1	Set(s) of	30	AWG	3806	--	480	10	0.9	56	0.000310	0.000060	0.451027				0.105	0.91	9967	-0.06%	-1.89%	4
5	TX-THL		4	3	9967	TX								480															
6	HLP		5	3	2254	M	CU	1	Set(s) of	10	AWG	8925	--	208	20	0.9	120	0.000120	0.000055	0.451027	ETR TP-1	150	45		5	208			
7	HTLS		6	3	2163	M	CU	1	Set(s) of	1	AWG	7293	--	208	270	0.9	20	0.000160	0.000057	0.451027				0.667	0.60	1298	-0.76%	-2.91%	7
8	HTLN		6	1	2163	M	CU	1	Set(s) of	2	AWG	5907	--	208	200	0.9	20	0.000200	0.000057	0.451027				0.704	0.59	1269	-0.79%	-2.94%	8
9	ELEVATOR		3	3	11032	M	CU	1	Set(s) of	6	AWG	2425	--	480	100	0.8	16	0.000480	0.000054	0.643501				1.642	0.38	4176	-0.28%	-2.11%	9
10	TO TX-LDC		2	3	48988	NM	CU	1	Set(s) of	4	AWG	3806	--	480	15	0.9	56	0.000310	0.000048	0.451027				0.693	0.59	28935	-0.09%	-0.23%	10
11	TX-LDC		10	3	28935	TX								480															
12	DISC-TX-LDC		11	3	3379	NM	CU	1	Set(s) of	10	AWG	9317	--	208	100	0.9	100	0.000120	0.000044	0.451027				0.030	0.97	3280	-0.11%	-0.33%	12
13	LLC		12	3	3280	M	CU	1	Set(s) of	30	AWG	12844	--	208	260	0.9	100	0.000079	0.000052	0.451027	DOE	150	45	3.51		208			

LOAD SUMMARY (MDP)			
OCCUPANCY TYPE: SQUARE FOOTAGE: 0		SERVICE DESCRIPTION: 480Y/277 V	
LOAD TYPE	CONNECTED LOAD KVA	DEMAND FACTOR	NEC DEMAND KVA
EXISTING PEAK UTILITY (@ 0.9 pf)	N/A	125%	493.06
COOLING (C)	1.06	0%	0.00
HEATING (H)	26.00	100%	26.00
LIGHTING (L) (PER NEC-220)	5.30	125%	6.63
RECEPTACLES (R)	7.92	100%	7.92
MOTORS (M)	1.53	100%	1.53
SUPPLEMENTAL HEAT (U)	7.00	100%	7.00
MISC EQUIP (Z)	3.20	100%	3.20
REFRIGERATION (F)	0.00	100%	0.00
SIGN/DISPLAY (D)	1.20	125%	1.50
KITCHEN (K)	1.44	90%	1.30
LARGEST MOTOR	14.97	125%	18.72
SHOW WINDOW (W)	0.00	125%	0.00
TRACK LIGHTING	0.00	100%	0.00
EXISTING LOAD TO BE DELETED	0.00	100%	0.00
TOTAL LOAD	69.62	KVA	566.84
TOTAL AMPACITY	83.74	AMPS	681.81
SERVICE AMPACITY		AMPS	1600.00
SPARE CAPACITY		AMPS	918.19
*PER UTILITY COMPANY BILLING PEAK DEMAND OF:		355.00 KW	November 2018

ELECTRICAL UTILITY CONTACT NOTE:

UTILITY COMPANY: **EVERGY ENERGY**
UTILITY CONTACT: **RON DEJARNETTE**
EMAIL: **RON.DEJARNETTE@EVERGY.COM**

ONE-LINE DIAGRAM GENERAL NOTES:

- THE INFORMATION SHOWN IN THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS SCHEDULE IS SHOWN FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE THE CONDUIT TYPES, CONDUCTOR TYPES, SIZES, QUANTITIES OR LENGTHS FOR TAKEOFFS OR BIDDING PURPOSES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THIS SCHEDULE AND OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF AS-BUILT CONDITIONS THAT CONSTITUTE A CHANGE FROM WHAT IS SHOWN BELOW. THIS INCLUDES CONDUCTOR LENGTHS DIFFERING BY MORE THAN 10%.
- REFER TO THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS TABLE ON THIS SHEET. AVAILABLE FAULT CURRENT INFORMATION IS LISTED UNDER THE "FAULT CURRENT" COLUMN. VOLTAGE DROP VALUES ARE LISTED UNDER THE "CUMULATIVE VOLTAGE DROP" COLUMN. THE AIC/SCCR RATING OF THE EQUIPMENT SHALL NOT BE LESS THAN THE AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT. ALL SERIES RATED EQUIPMENT SHALL BE PROPERLY LISTED AND LABELED PER CODE.
- FEEDER NUMBER DESIGNATIONS PRECEDED BY "V" INDICATE THAT THE CONDUCTORS ARE UP-SIZED DUE TO VOLT-DROP CONSIDERATIONS. PROVIDE LUG ADAPTERS AS NEEDED IN ORDER TO PROPERLY LAND CONDUCTORS AT TERMINATION(S).
- FEEDER SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNLESS NOTED OTHERWISE. AL WIRE MAY BE SUBSTITUTED FOR CU FEEDERS AS ALLOWED BY CODE. SPECIFICATIONS AND OWNER, UNLESS NOTED OTHERWISE, AT CONTRACTOR'S OPTION. CU WIRE MAY BE SUBSTITUTED FOR AL, UNLESS NOTED OTHERWISE. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- BRANCH CIRCUIT SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. ALL CONDUCTOR SIZES ARE BASED ON 60 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- INSTALL FEEDERS OVERHEAD AS HIGH AS PRACTICABLE AND ORTHOGONALLY ALONG BUILDING STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE FINAL ROUTING WITH OTHER TRADES.
- CIRCUIT BREAKERS RATED 1200A OR HIGHER SHALL HAVE APPROPRIATE DOCUMENTATION AND METHOD TO REDUCE CLEARING TIME IN ORDER TO REDUCE ARC FLASH ENERGY PER CODE. PROVIDE ELECTRONIC TRIP UNIT WITH INSTANTANEOUS TRIP AND ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR FOR COMPLIANCE. PROVIDE PROVISIONS TO INTERFACE WITH OWNER ALARM/MONITORING SYSTEM TO INDICATE MAINTENANCE SWITCH STATUS.
- PROVIDE A PERMANENT LABEL ON FRONT OF EQUIPMENT ENCLOSURE; REFER TO SPECIFICATIONS FOR LABEL REQUIREMENTS. LABEL SHALL READ AS FOLLOWS (INCLUDE RESPECTIVE NAMES IN BLANKS):

SERVICE EQUIPMENT LABEL:

EXAMPLE:
208Y/120V, 60HZ
800A
SCCR = 65,000A
MAX AVAILABLE FAULT CURRENT = 58,815A
CALCULATED: 01/12/018

PANELBOARD/SWITCHBOARD LABEL:

LINE 1: PANELBOARD " " SUPPLIED BY UPSTREAM
LINE 2: PANELBOARD/SWITCHBOARD " "
LINE 3: LOCATED IN " "
LINE 4: PANELBOARD " " SUPPLIES DOWNSTREAM
LINE 5: PANELBOARD(S) " "

TRANSFORMERS LABEL:

LINE 1: TRANSFORMER " " SUPPLIED BY UPSTREAM
LINE 2: PANELBOARD/SWITCHBOARD " "
LINE 3: LOCATED IN " "
LINE 4: TRANSFORMER " " SUPPLIES DOWNSTREAM
LINE 5: PANELBOARD(S) " "

FEEDER SCHEDULE:

SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNO. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNO. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNO. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FEEDER TAG	FEEDER DESCRIPTION
63	(3) #8, (1) #10 G, 3/4" C
73	(3) #4, (1) #6 G, 1" C
154	(4) #1/0, (1) #6 G, 1-1/2" C
404	(2) 2" C, EACH W/ (4) #3/0, (1) #3 G
G6	#6 COPPER GROUND, 3/4" C
G8	#8 COPPER GROUND, 3/4" C
S1604	(5) 3" C, EACH W/ (4) 400 kcmil
T154	(4) #1/0, (1) #6 SSB, 1-1/2" C
V063C	(3) #2, (1) #4 G, 1-1/4" C
V074C	(4) #1, (1) #4 G, 1-1/2" C
V154B	(4) #3/0, (1) #4 G, 2" C

ONE-LINE DIAGRAM GENERAL NOTES:

- COORDINATE WORK WITH ARCHITECTURAL PHASING DRAWINGS TO PROPERLY STAGE TRANSITION TO PROVIDE POWER TO EXISTING, NEW AND TEMPORARY LOADS. MONITOR LOADS ON DISTRIBUTION SYSTEM TO MAKE SURE SHIFTING OF LOADS DOES NOT OVERLOAD ELECTRICAL EQUIPMENT.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXISTING AIC/SCCR RATING OF EACH PANELBOARD/SWITCHBOARD. ALL NEW AND EXISTING OVER-CURRENT PROTECTION DEVICES (CIRCUIT BREAKERS AND FUSES) MUST HAVE AN AIC/SCCR RATING EXCEEDING THE AVAILABLE FAULT CURRENT AT THAT POINT IN THE SYSTEM. NOTIFY THE OWNER AND THE ENGINEER IF THE EXISTING EQUIPMENT DOES NOT COMPLY WITH THIS REQUIREMENT.
- VERIFY THE INTEGRITY OF THE EXISTING GROUNDING ELECTRODE SYSTEM AND THAT THE NEUTRAL AND GROUND ARE PROPERLY BONDED TOGETHER AT THE POINT OF SERVICE ENTRANCE. NOTIFY THE LANDLORD, OWNER AND THE ENGINEER OF ANY EXISTING DEFICIENCIES.
- AS APPLICABLE, OBTAIN THE FOLLOWING INFORMATION IN REGARD TO THE EXISTING ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM AND REPORT FINDINGS TO THE ENGINEER FOR ANALYSIS PRIOR TO BEGINNING CONSTRUCTION:
 - AVAILABLE FAULT CURRENT DELIVERED BY THE UTILITY COMPANY AT THE POINT OF SERVICE. INCLUDE THE AVAILABLE FAULT CURRENT DELIVERED TO THE TENANT SPACE BY THE LANDLORD'S DISTRIBUTION SYSTEM.
 - PROVIDE A PLAN SKETCH OF THE LANDLORD'S DISTRIBUTION EQUIPMENT LOCATION RELATIVE TO THE ENTIRE BUILDING. INCLUDE THE LOCATION OF TENANT SPACE UTILITY METER AND SERVICE DISCONNECT, RELEVANT FEEDER ROUTING AND LENGTHS.
 - PROVIDE A SKETCH OF THE ONE-LINE SHOWING THE PATH FROM THE UTILITY TRANSFORMER TO THE LANDLORD EQUIPMENT TO THE TENANT SPACE. INCLUDE FEEDER CONDUCTOR MATERIAL, AL OR CU, NUMBER AND SIZE OF CONDUCTORS, GROUND, LENGTH, CONDUIT SIZE AND CONDUIT TYPE.
 - TYPE OF SERVICE DISCONNECT OVER-CURRENT PROTECTION DEVICE, (FUSE OR CIRCUIT BREAKER), AMPERE RATING OF THE DEVICE AND AIC/SCCR RATING OF THE DEVICE.
 - AIC/SCCR RATING AT EACH EXISTING SWITCHBOARD/PANELBOARD.

ONE-LINE DIAGRAM SUPPLEMENTAL SPECIFICATIONS:

- GROUNDING ELECTRODE SYSTEM SHALL BE PER LOCAL REQUIREMENTS AND SHALL NOT BE LESS STRINGENT THAN THAT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
- PROVIDE PROPERLY SIZED LUGS FOR ALL EQUIPMENT, CIRCUIT BREAKERS, AND OTHER ELECTRICAL DEVICES TO ACCOMMODATE INSTALLED CONDUCTORS. A LARGER FRAME OVERSIZED LUGS OR NON-STANDARD PRODUCT MAY BE REQUIRED IN SOME INSTANCES. UTILIZE PIN ADAPTERS ONLY IF NECESSARY AND ONLY AS ALLOWED BY MANUFACTURER AND AHI.
- PROVIDE ANY AVAILABLE SPACE IN SWITCHBOARDS/PANELBOARDS WITH BUSING.
- PROVIDE (4) EMPTY 1" CONDUITS WITH PULL STRINGS FROM EACH RECESSED PANELBOARD UP TO ACCESSIBLE CEILING SPACE. CAP AND LABEL CONDUITS FOR FUTURE USE.
- PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. COORDINATE FINAL ROOM NAMES, NUMBERS AND DESCRIPTIONS WITH OWNER PRIOR TO COMPLETION. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.

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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020



Sep 25 2020

REVISIONS

Number DESCRIPTION DATE

PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL ONE-LINE
DIAGRAM

N-E800

BID SET

TELECOMMUNICATIONS SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

STANDARD MOUNTING HEIGHTS

TELECOM BACKBOARD (BOTTOM OF BACKBOARD)	4"
LADDER RACK IN TELECOM ROOMS (BOTTOM OF DEVICE)	90"
CABLE TRAY / CONDUIT AFC (BOTTOM OF PATHWAY)	3"(MIN)
LIGHT FIXTURE IN TELECOM ROOMS (BOTTOM OF DEVICE)	108"(MIN)
TELEPHONE WALL OUTLET (CENTERLINE)	48"
DATA WALL OUTLET	SAME AS ADJACENT DEVICE, UNO
TELEVISION OUTLET	REFER TO ARCH DRAWINGS
TMGB/TGB (CENTERLINE)	84"
WALL CLOCK (CENTERLINE)	84"
INTERCOM (CENTERLINE)	48"

USE THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) AT BOTTOM OF OUTLET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ABBREVIATIONS

A AMPERES	LAN LOCAL AREA NETWORK
ADA AMERICANS WITH DISABILITIES ACT	LCC LIMITED COMBUSTIBLE CABLE
AFG ABOVE FINISHED GRADE	LEC LOCAL EXCHANGE CARRIER
AFF ABOVE FINISHED FLOOR	LED LIGHT-EMITTING DIODE
AFH AUTHORITY HAVING JURISDICTION	LF LINEAR FEET
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	MAN METROPOLITAN AREA NETWORK
AP ACCESS POINT	MATV MASTER ANTENNA TELEVISION
AV AUDIO-VIDEO	MC MAIN CROSS-CONNECT
AWG AMERICAN WIRE GAUGE	MDF MAIN DISTRIBUTION FRAME
BAS BUILDING AUTOMATION SYSTEM	MFR MANUFACTURER
BD BUILDING DISTRIBUTOR	MH MAINTENANCE HOLE
BDF BUILDING DISTRIBUTION FRAME	MM MULTIMODE
BFC BELOW FINISHED CEILING	MPCE MAIN POINT OF ENTRANCE
C CAT	MPOR MAIN POINT OF PRESENCE
CATV COMMUNITY ANTENNA TELEVISION	MTD MOUNTED
CCTV CLOSED CIRCUIT TELEVISION	N/A NOT APPLICABLE
CD CAMPUS DISTRIBUTOR	NEC NATIONAL ELECTRICAL CODE
CMP COMMUNICATIONS PLENUM JACKET	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
CMR COMMUNICATIONS RISER JACKET	NIC NOT IN CONTRACT
DAS DISTRIBUTED ANTENNA SYSTEM	NRTL NATIONALLY RECOGNIZED TESTING LAB
dB DECIBELS	OC ON CENTER
DEMO DEMOLITION	OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
(E) EXISTING	OSP OUTSIDE PLANT
EC ELECTRICAL CONTRACTOR	PBX PRIVATE BRANCH EXCHANGE
EDA ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION	POE POWER OVER ETHERNET
EMI ELECTROMAGNETIC INTERFERENCE	PON PASSIVE OPTICAL NETWORK
EMS ENERGY MANAGEMENT SYSTEM	POTS PLAIN OLD TELEPHONE SERVICE
EMT ELECTRICAL METALLIC TUBING	PSTN PUBLIC SWITCHED TELEPHONE NETWORK
ER EQUIPMENT ROOM	QTY QUANTITY
ETR EXISTING TO REMAIN	RCDD REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
FAAP FIRE ALARM ANNUNCIATOR PANEL	RMC RIGID METAL CONDUIT
FACP FIRE ALARM CONTROL PANEL	RU RACK UNIT
FD FLOR DISTRIBUTOR	SCS STRUCTURED CABLEING SYSTEM
FMC FLEXIBLE METAL CONDUIT	SE SQUARE FEET
FS FIRE STOP SYSTEM	SM SINGLEMODE
FLR FLOOR	SPECS SPECIFICATIONS
FUTP SCREEN TWISTED PAIR (SHIELDED)	TBB TELECOMMUNICATIONS BONDING BACKBONE
GC GENERAL CONTRACTOR	TBD TO BE DETERMINED
GE GROUNDING EQUALIZER	TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION
GYP GYPSUM BOARD	TGB TELECOMMUNICATIONS GROUND BUS BAR
HC HORIZONTAL CROSS-CONNECT	TMGB TELECOMMUNICATIONS MAIN GROUND BUS BAR
HCM HORIZONTAL CABLE MANAGER	TR TELECOMMUNICATIONS ROOM TYPICAL
HH HAND HOLE	UNO UNLESS NOTED OTHERWISE UNDERWRITER LABORATORIES, INC.
HZ HERTZ	UPS UNINTERRUPTIBLE POWER SUPPLY
IMC INTERMEDIATE METAL CONDUIT	UI/UTP UNSHIELDED TWISTED PAIR
IP INTERNET PROTOCOL	V VOLTS
ISP INTERNET SERVICE PROVIDER	VCM VERTICAL CABLE MANAGER
ISP INSIDE PLANT CABLE	W WIRE
JB JUNCTION BOX	WAN WIDE AREA NETWORK
J-BOX JUNCTION BOX	WAO WORK AREA OUTLET
	WAP WIRELESS ACCESS POINT
	WP WEATHER PROOF
	WR WEATHER RESISTANT
	WT WATERTIGHT
	XP EXPLOSION-PROOF

ANNOTATION

①	TECHNOLOGY PLAN CALLOUT
1	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
1	CONNECTION POINT OF NEW WORK TO EXISTING
1 T1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER
1 T1	SECTION CUT DESIGNATION

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINE TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	NEW
DEMOLISH	FUTURE

PATHWAYS

W"xH	WIRE MESH CABLE TRAY (W*=WIDTH, "H*=HEIGHT)
	VERTICAL CABLE TRAY
(#) D"	UNDERGROUND CONDUIT ("#*=QUANTITY, "D*=CONDUIT DIAMETER)
(#) D"	CONDUIT ("#*=QUANTITY, "D*=CONDUIT DIAMETER)
	CABLE SUPPORTS OR J-HOOKS
(#) D" FS	CONDUIT SLEEVE ("#*=QUANTITY, "D*=CONDUIT DIAMETER)
PB L"xW"xH"	UL FIRESTOP SYSTEM ASSEMBLY
SC	SPLICE

TELECOMMUNICATIONS ROOM

LADDER RACK
TELECOM MAIN GROUND BAR (TMGB) - WALL ELEVATION VIEW
TELECOM GROUND BAR (TGB) - WALL ELEVATION VIEW
TMGB/TGB - PLAN VIEW
TELECOM BACKBOARD
TWO-POST EQUIPMENT RACK
FOUR-POST EQUIPMENT RACK
EQUIPMENT CABINET (REFER TO PLAN NOTES ON ENLARGED PLANS FOR MORE INFORMATION)

TELECOMMUNICATIONS OUTLETS

SYMBOL	DESCRIPTION	CABLE(S)	DETAIL
▼ ELEV	ELEVATOR PHONE OUTLET	1	5/N-TN500
▽ 2D	DATA WALL OUTLET	2	1,3,4/N-TN500
⊕ WAP	DATA CEILING OUTLET	2	2/N-TN500
▽ W.ETR	DATA WALL OUTLET - EXISTING PHONE	-	-
▽ ETR	DATA WALL OUTLET - EXISTING TO REMAIN	-	-
▽ WAP.ETR	DATA WALL OUTLET - EXISTING WIRELESS ACCESS POINT	-	-
▽ ETR	DATA WALL OUTLET - EXISTING ABOVE COUNTER	-	-
⊕ ETR	DATA CEILING OUTLET - EXISTING	-	-

TELECOMMUNICATIONS RESPONSIBILITY MATRIX

Description	Furnish		Install		Comments
	Construction Team	Owner	Construction Team	Owner	
General Communications					
Grounding and Bonding	X		X		
Hangers and Supports	X		X		
Conduits and Backboxes	X		X		
Surface Raceways	X		X		
Underground pathways for utility entrance and floor boxes	X		X		
Firestops, Conduit Sleeves, and Sleeve Seals	X		X		
Structured Cabling					
Telecom Room Cabinets, Racks, Frames, and Enclosures	X		X		
Telecom Room Buildout (ex. backboard and ladder rack)	X		X		
Copper Horizontal Cable and Connectivity	X		X		
Data Communications					
Router / Firewall		X		X	
Core Switch / Edge Switch		X		X	
Wireless Access Points		X		X	
Servers / Storage and Backup		X		X	
Laptops / Desktops / Copiers / Printers / Scanners		X		X	
Software		X		X	

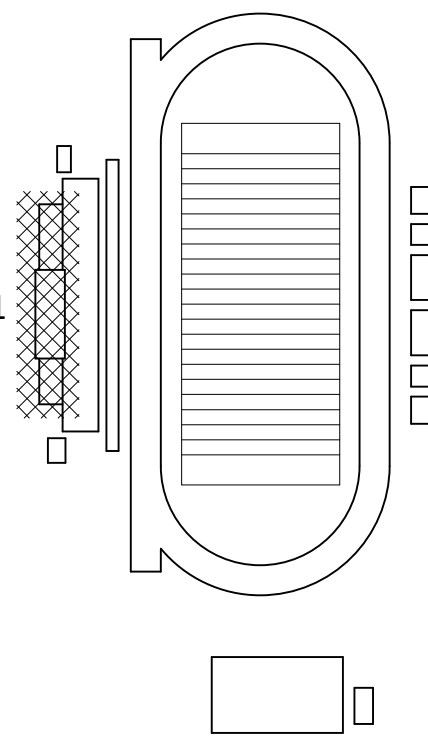
GENERAL NEW WORK NOTES

1. READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS.
2. ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS (DIVISION 26, DIVISION 27, DIVISION 28, ETC.) AND THE CUSTOMER PRE-ESTABLISHED STRUCTURED CABLING STANDARDS. SHOULD DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLOGY AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR CLARIFICATION THROUGH THE RFI PROCESS.
3. FULLY COORDINATE ALL CABLE TRAY, FIRE STOP CONDUITS / SLEEVES, AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CABLE TRAY AND CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB OR UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES.
4. ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING BACKBONE. FOR CONDUITS, INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT THE FARTHEST AWAY FROM THE SERVING TR; A BONDING BUSHING SHALL BE USED AT THE END CLOSEST TO THE SERVING TR. CONTRACTOR TO REFER TO THE ANSI-STD-160 STANDARD FOR ADDITIONAL INFORMATION AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE.
5. ALL FIRE RATED WALL / FLOOR ASSEMBLIES PENETRATED FOR TELECOMMUNICATIONS CABLING PATHWAYS SHALL BE FIRE STOPPED WITH THE APPROVED FIRE STOP SYSTEMS (S). ALL FIRESTOP SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AND AS SPECIFIED IN DIVISION 07 07 84 00 - "FIRESTOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.
6. BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS.
7. ROUTING OF CABLES SHALL BE CONCEALED. CABLES SHALL BE ROUTED IN CONDUIT IN EXPOSED AREAS. MINIMIZE AMOUNT OF EXPOSED CONDUIT BY EMBEDDING CONDUIT IN SLAB WHEN POSSIBLE. EMBEDDED CONDUITS AND PENETRATIONS OF STRUCTURE SHALL FOLLOW DETAILS IN STRUCTURAL DRAWINGS. WHEN CONDUITS CAN ONLY BE INSTALLED EXPOSED, NOTIFY ARCHITECT PRIOR TO START OF INSTALLATION OF CONDUITS. CABLES SHALL BE ROUTED IN CONDUIT WHEN ABOVE HARD CEILINGS. CONDUITS FOR ELEVATOR PHONES AND FIRE ALARM CONTROL PANEL SHALL BE CONTINUOUS (HOMERUN) FROM THE TELECOMMUNICATIONS ROOM TO THE APPLICABLE BOX / CABINET. CONTRACTOR SHALL SIZE AND PROVIDE CONDUITS TO MEET TIA-568.
8. TELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMATION TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALARM SYSTEM, ETC.) NO SERVICES SHALL PASS THROUGH THE SPACE UNLESS DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL, FIRE, ETC.)

GENERAL DEMOLITION NOTES

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE FACILITY, INCLUDING PATHWAY LOCATIONS AND ELEVATIONS. REVIEW THE GENERAL NOTES AND ALL OTHER TRADE DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS, INCLUDING ALL DEMOLITION AND NEW WORK DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR OWNER, AS SPECIFIED, OF ANY CONFLICTS OR DISCREPANCIES.
2. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO OWNER.
4. REMOVE ALL PATHWAYS, CABLING AND ASSOCIATED DEVICES FOR ALL ITEMS INTENDED TO BE REMOVED. ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.
5. REMOVE EXISTING ITEMS AS REQUIRED TO ACCOMMODATE THE GENERAL DEMOLITION SCOPE. ANY SYSTEMS PASSING THROUGH THE SPACE INTENDED TO REMAIN IN SERVICE SHALL BE PROTECTED, OR RELOCATED AS REQUIRED TO MAINTAIN SERVICE AND ACCOMMODATE THE GENERAL DEMOLITION AND NEW SCOPE OF WORK.
6. REFER TO ARCHITECTURAL PLANS FOR SCOPE OF AREAS THAT ARE TO BE DEMOLISHED UNDER THIS PHASE OF CONSTRUCTION. NOTE THAT IN SOME CASES, NEPT DEMOLITION WORK EXTENDS BEYOND SCOPE OF AREA IDENTIFIED DUE TO EXISTING SYSTEM DESIGN, NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO STARTING WORK.
7. COORDINATE THE INTERMEDIATE STORAGE, REMOVAL AND FINAL DISPOSITION OF TELECOMMUNICATIONS SCS COMPONENTS (PATHWAYS, CABLE, TERMINATION COMPONENTS, ETC) AND THE REQUIRED PROTECTION OF EXISTING SPECIAL SYSTEMS EQUIPMENT WITH OWNER PRIOR TO IMPLEMENTATION THAT ARE TO BE REMOVED AS A RESULT OF THE DEMOLITION / RENOVATION WORK.
8. EXISTING TELECOMMUNICATIONS CABLES AND COMPONENTS THAT PASS THROUGH THE CONSTRUCTION ZONE SHALL BE PROTECTED AND REMAIN IN PLACE SO AS TO MAINTAIN SERVICE WHILE ALSO ACCOMMODATING THE GENERAL DEMOLITION AND NEW SCOPE OF WORK. CONTRACTOR SHALL COORDINATE ALL SUCH EFFORTS WITH THE CLIENT PRIOR TO IMPLEMENTATION. DAMAGE TO EXISTING AND TO REMAIN IN PLACE TELECOMMUNICATIONS CABLES AND COMPONENTS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IN A TIMELY MANNER AND TO THE WRITTEN SATISFACTION OF THE CLIENT AND AT NO ADDITIONAL COST TO THE CLIENT. CONTRACTOR SHALL PROVIDE CABLE SUPPORTS FOR ANY EXISTING CABLES THAT ARE NOT PROPERLY SUPPORTED.

Key Plan:



kansas city • lawrence • new orleans
phoenix • san francisco

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Lee's Summit R7 District
Athletics Facilities

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901 NE Douglas Street
Lee's Summit, MO 64086

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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2020

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

TECHNOLOGY LEGEND
AND NOTES

N-TN000

BID SET

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EXPIRES 12/31/2020

REVISIONS

Number	DESCRIPTION	DATE
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PROJECT NO: 0119-0101
DATE: September 28, 2020

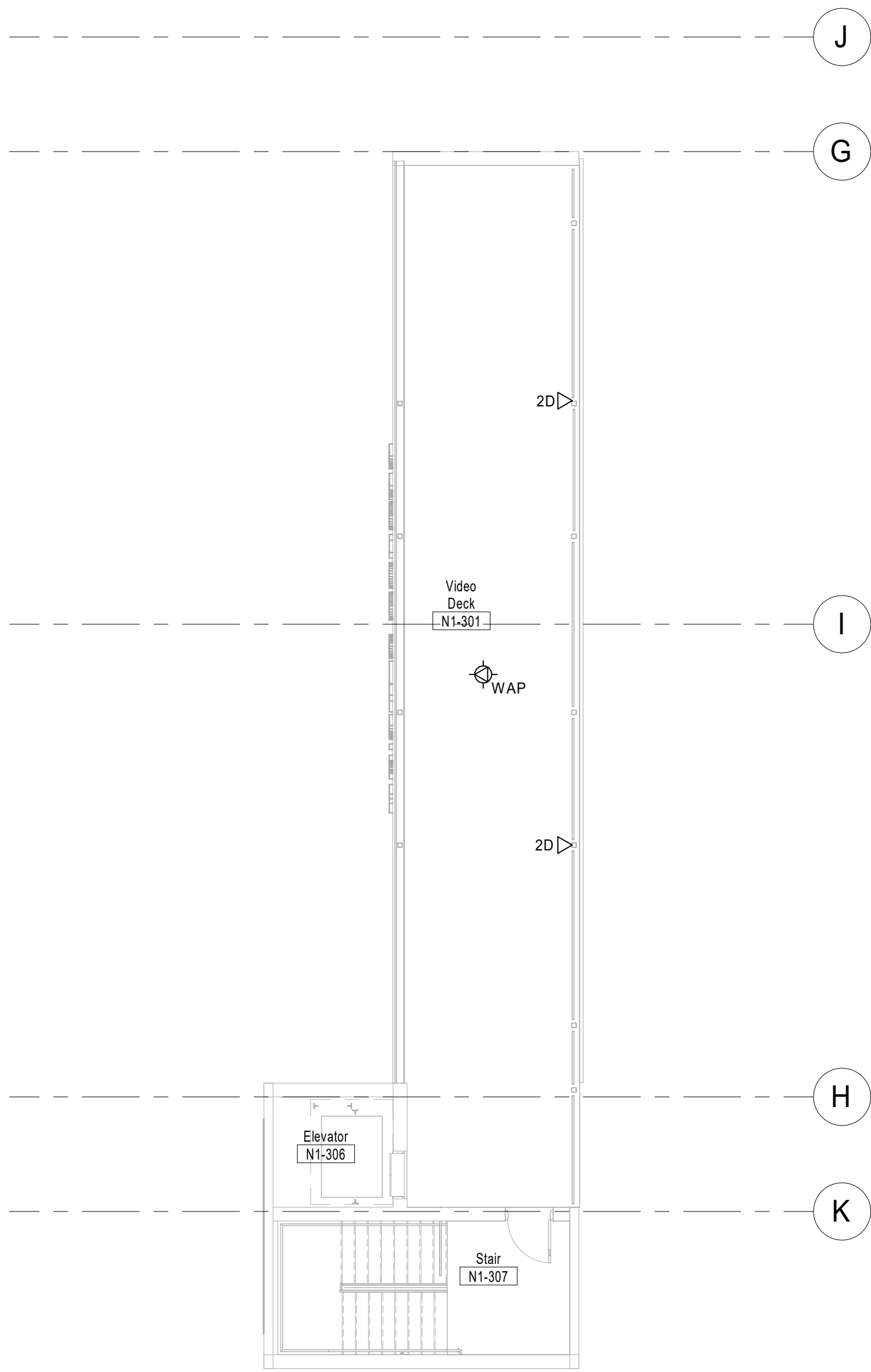
PRESS BOX -
TECHNOLOGY PLANS

N-TN111

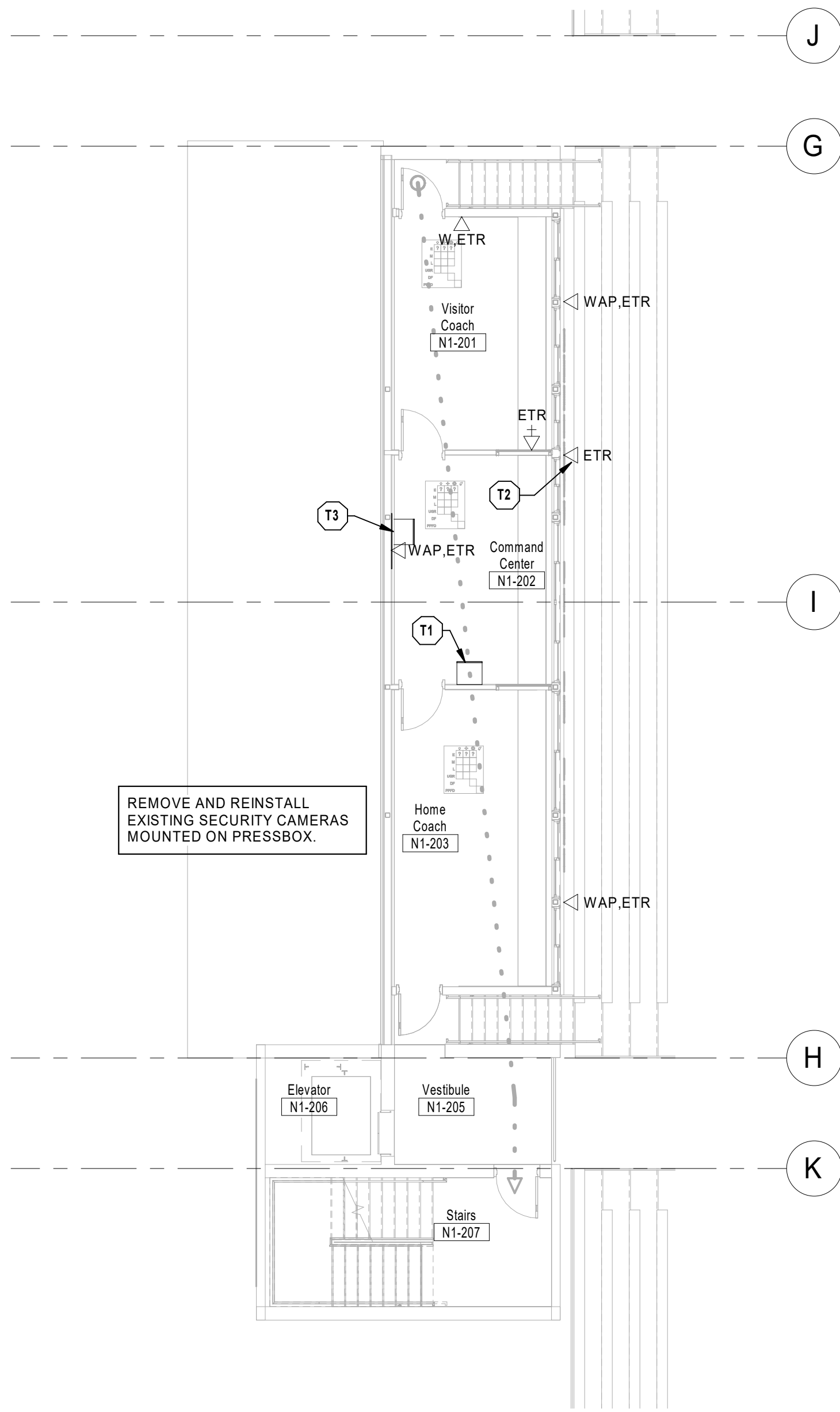
BID SET

TECHNOLOGY PLAN NOTES:

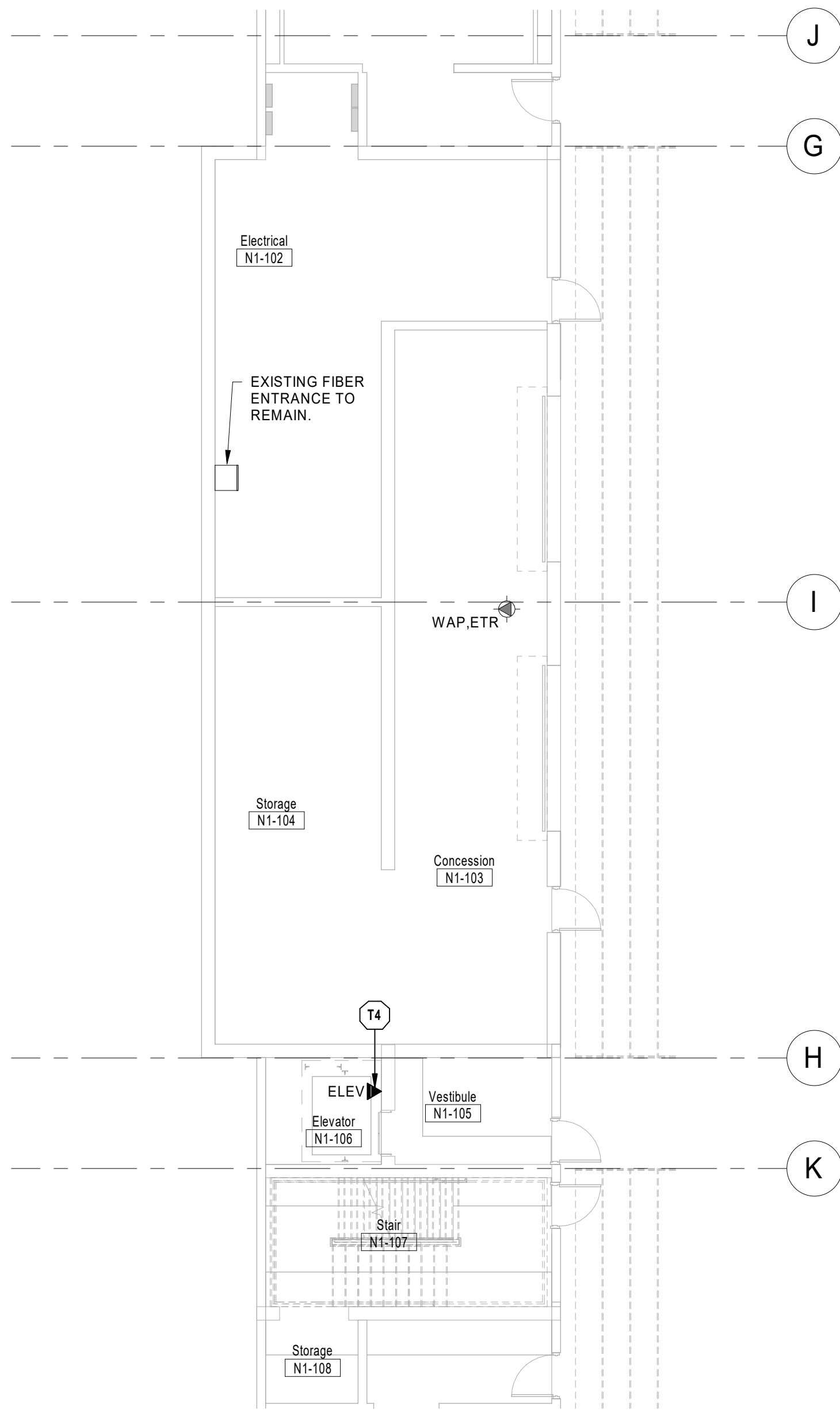
- T1 AV RACK IS TO BE REMOVED AND PROTECTED DURING CONSTRUCTION. CONTRACTOR TO PROVIDE OWNER 7 DAYS NOTICE FOR RACK REMOVAL FOR OWNER TO REMOVE FROM CONSTRUCTION AREA AND PROTECT RACK. RACK TO BE REINSTALLED AFTER CAMERA DECK ERECTION IS COMPLETE. COORDINATE WITH OWNER TO VERIFY LOCATION OF RACK REINSTALLATION.
- T2 EXISTING HUDL CAMERA TO REMAIN.
- T3 TELECOMMUNICATIONS RACK IS TO BE REMOVED AND PROTECTED DURING CONSTRUCTION. ALL EXISTING DEVICES TO BE RECABLED TO THIS LOCATION. ALL NEW DEVICES BEING SERVED BY RACK TO BE ROUTED TO THIS LOCATION. CONTRACTOR TO PROVIDE OWNER 7 DAYS NOTICE FOR RACK REMOVAL FOR OWNER TO REMOVE FROM CONSTRUCTION AREA AND PROTECT RACK. RACK TO BE REINSTALLED AFTER CAMERA DECK ERECTION IS COMPLETE. COORDINATE WITH OWNER TO VERIFY LOCATION OF RACK REINSTALLATION.
- T4 ELEVATOR PHONE OUTLET. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR PROVIDER.



3 PRESS BOX - LEVEL 3 TECHNOLOGY PLAN
1/8" = 1'-0"

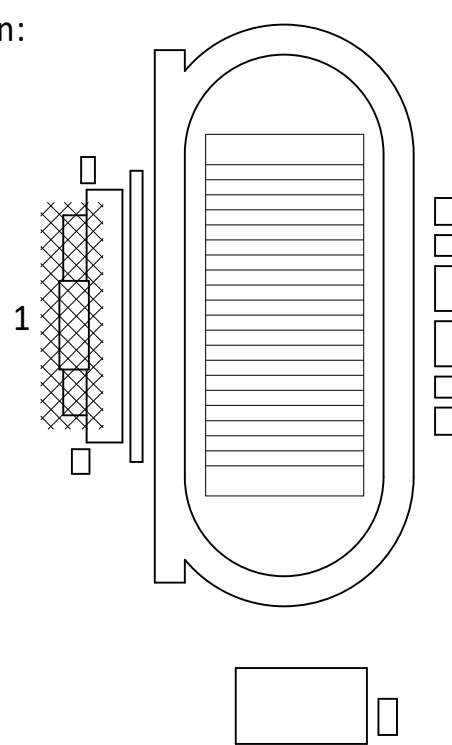


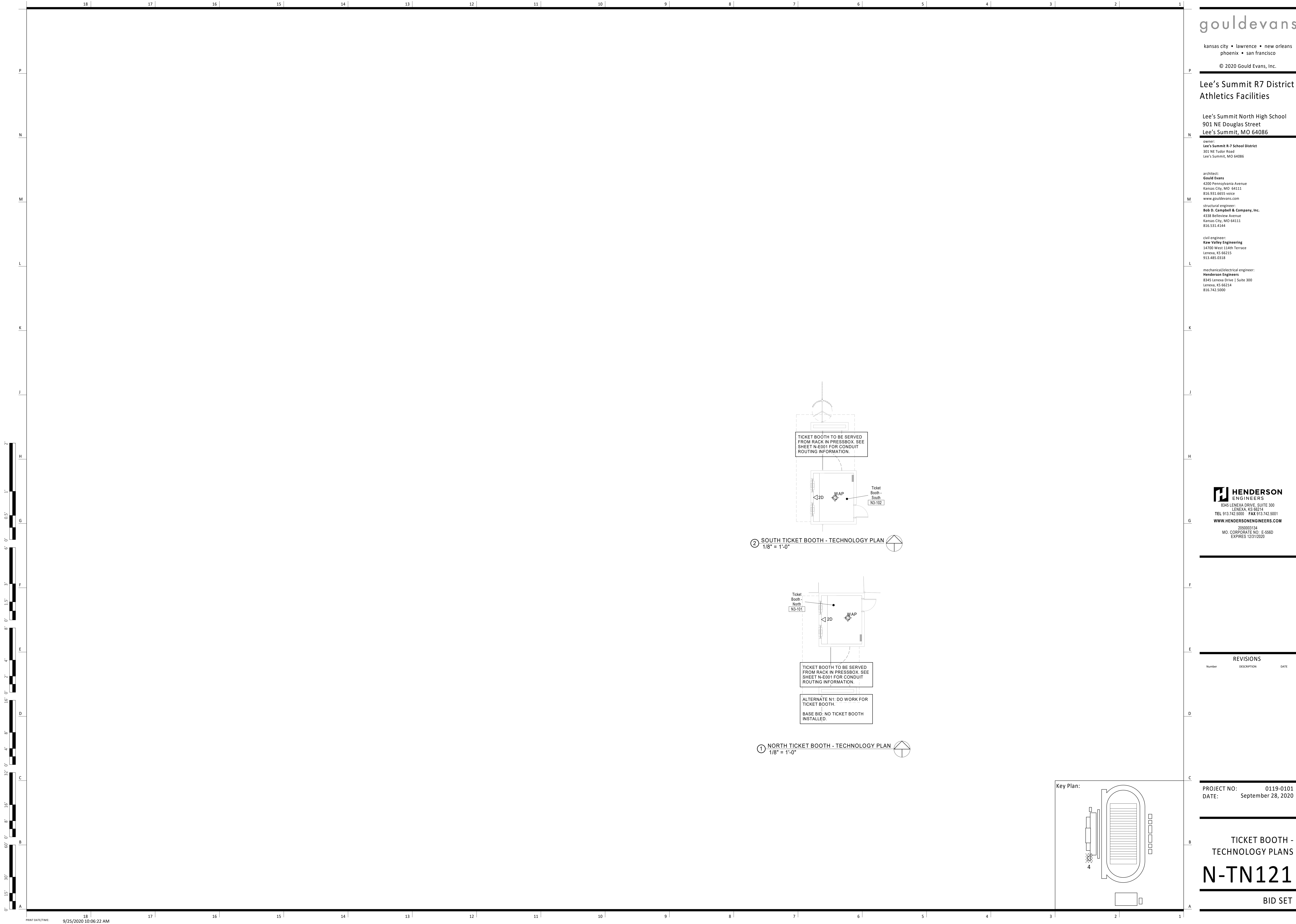
2 PRESS BOX - LEVEL 2 TECHNOLOGY PLAN
1/8" = 1'-0"



1 PRESS BOX - LEVEL 1 TECHNOLOGY PLAN
1/8" = 1'-0"

Key Plan:





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REVISIONS

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PROJECT NO: 0119-0101
DATE: September 28, 2020

TICKET BOOTH -
TECHNOLOGY PLANS

N-TN121

BID SET



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REVISIONS

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PROJECT NO: 0119-0101
DATE: September 28, 2020

VISITOR RESTROOMS -
TECHNOLOGY PLAN

N-TN141

BID SET

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REVISIONS

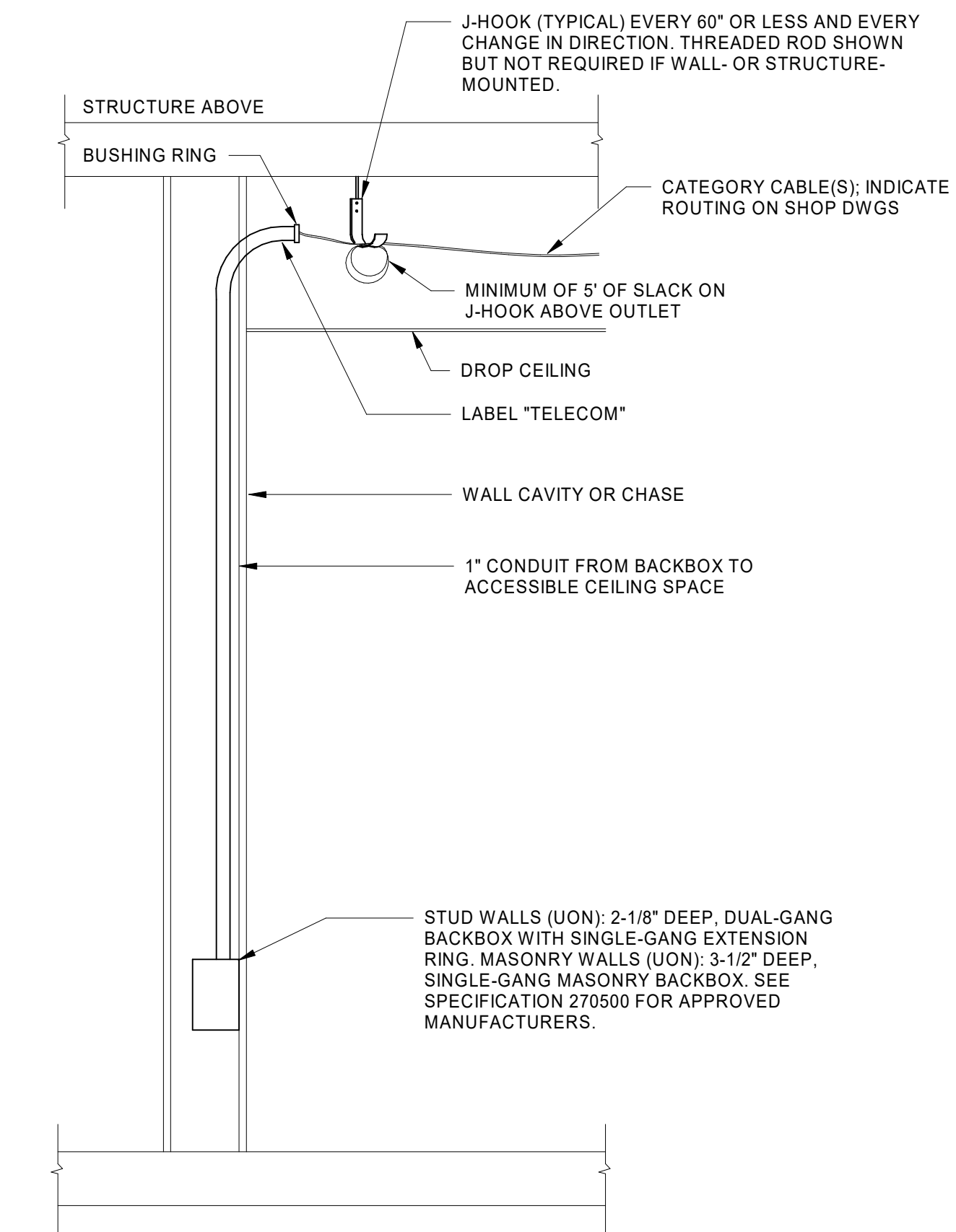
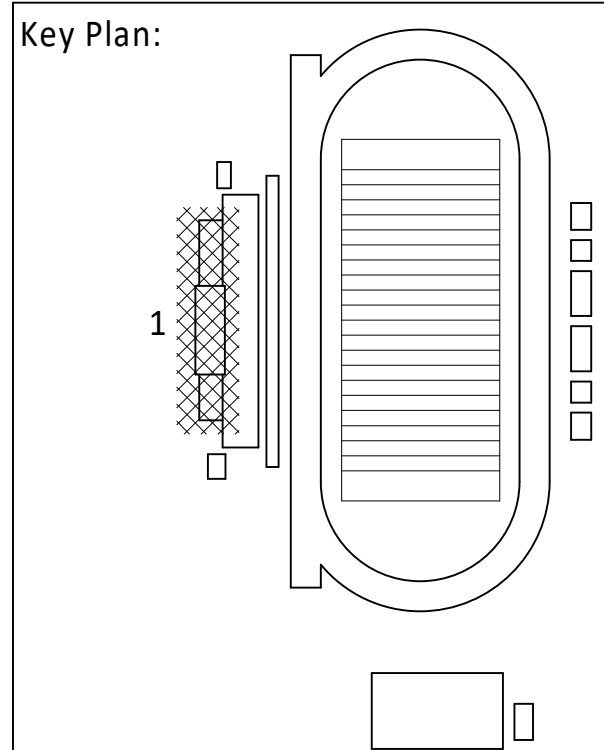
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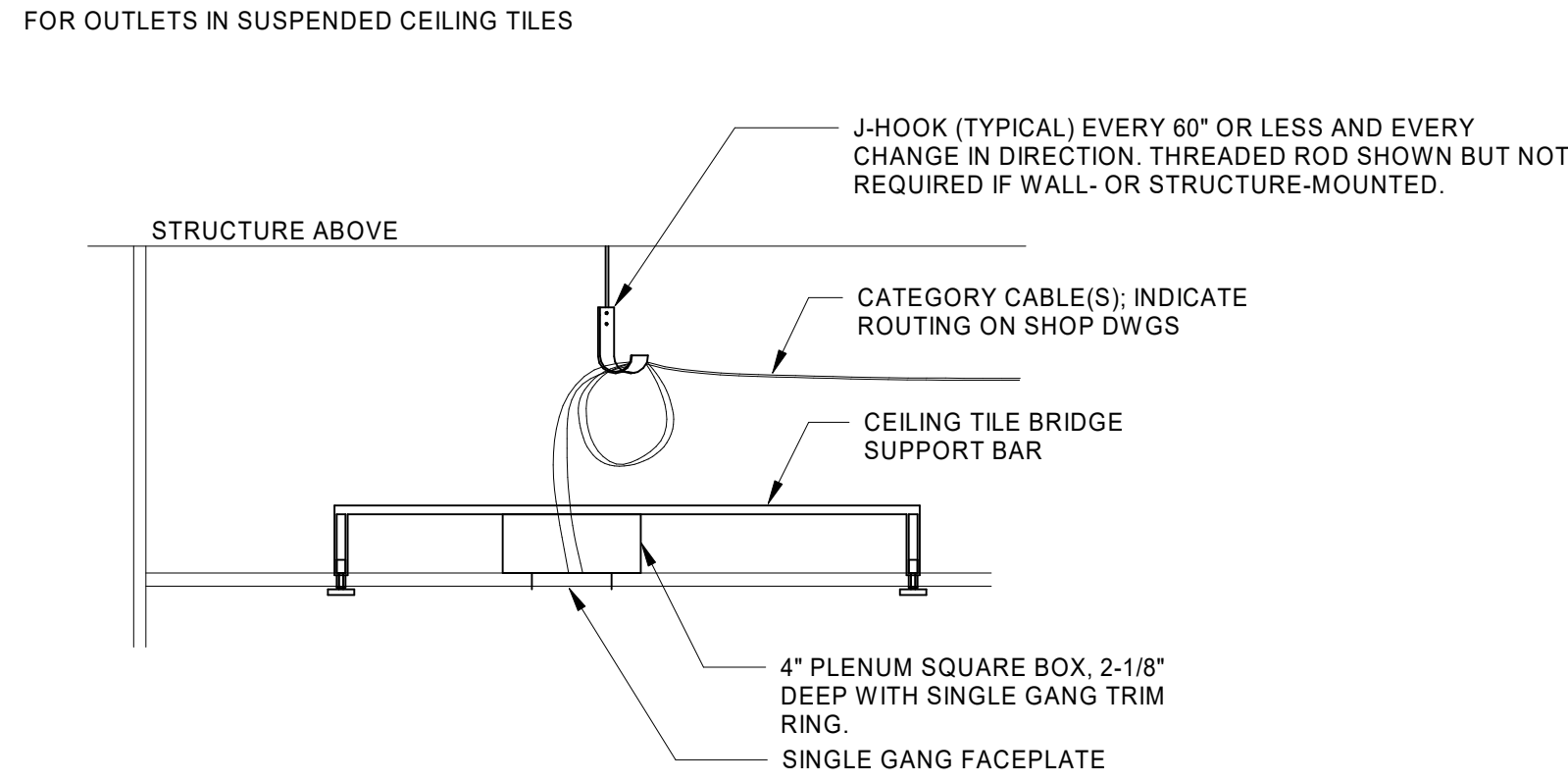
TECHNOLOGY DETAILS

N-TN500

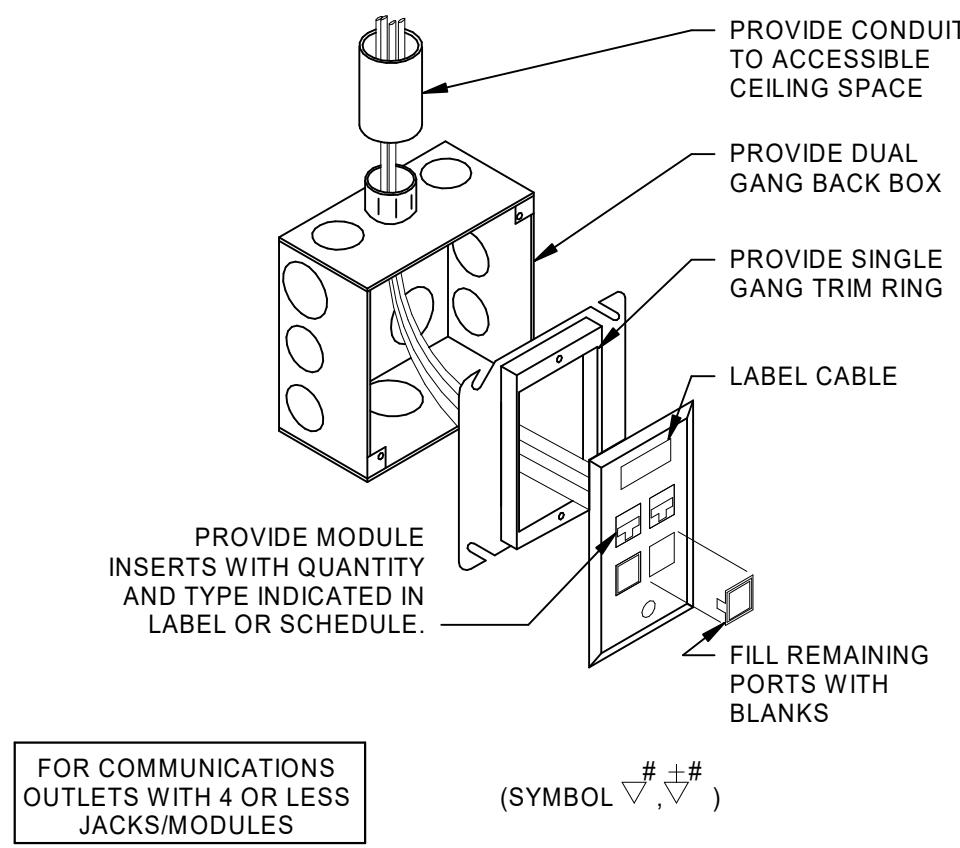
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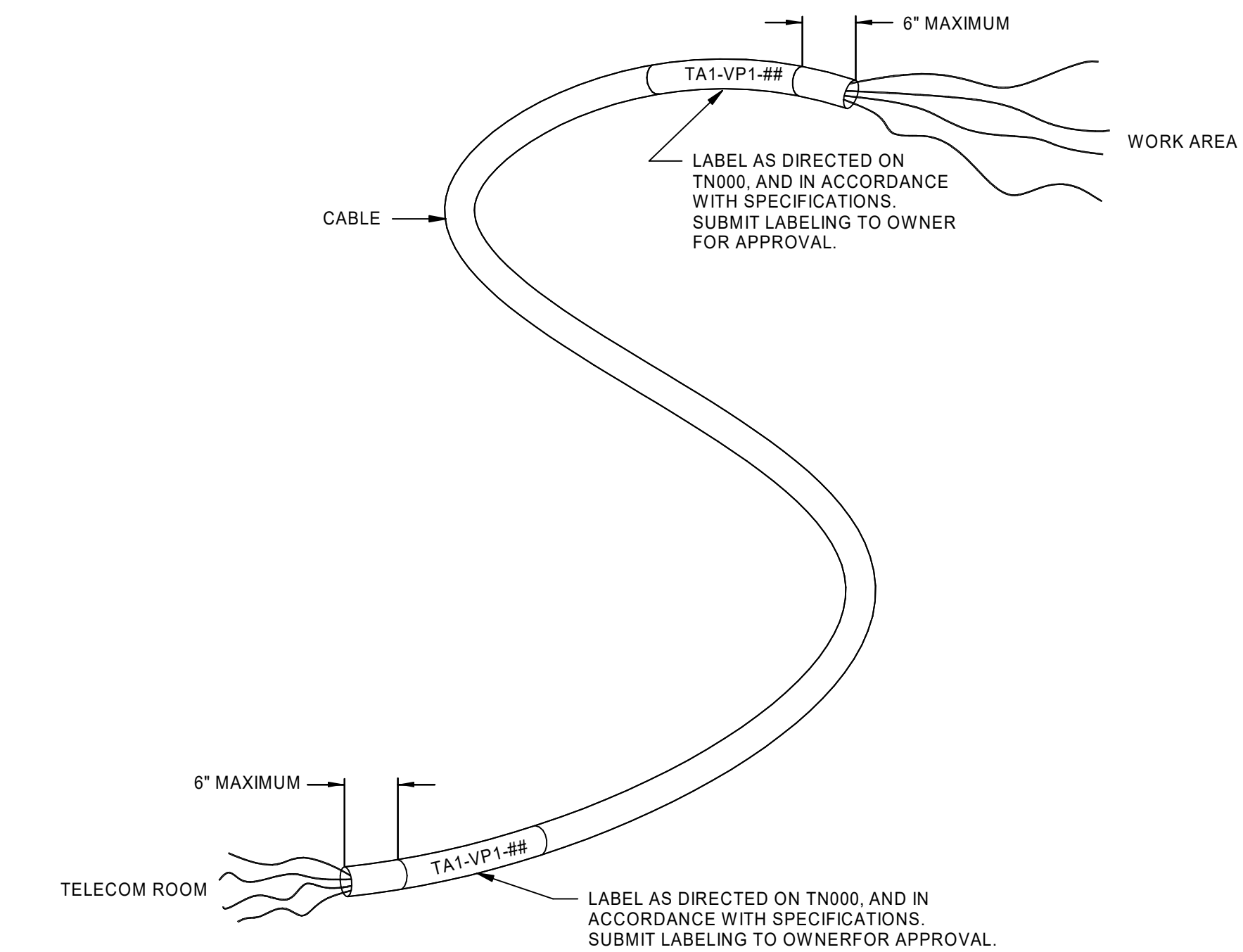
1 COMMUNICATIONS OUTLET MOUNTING
NTS



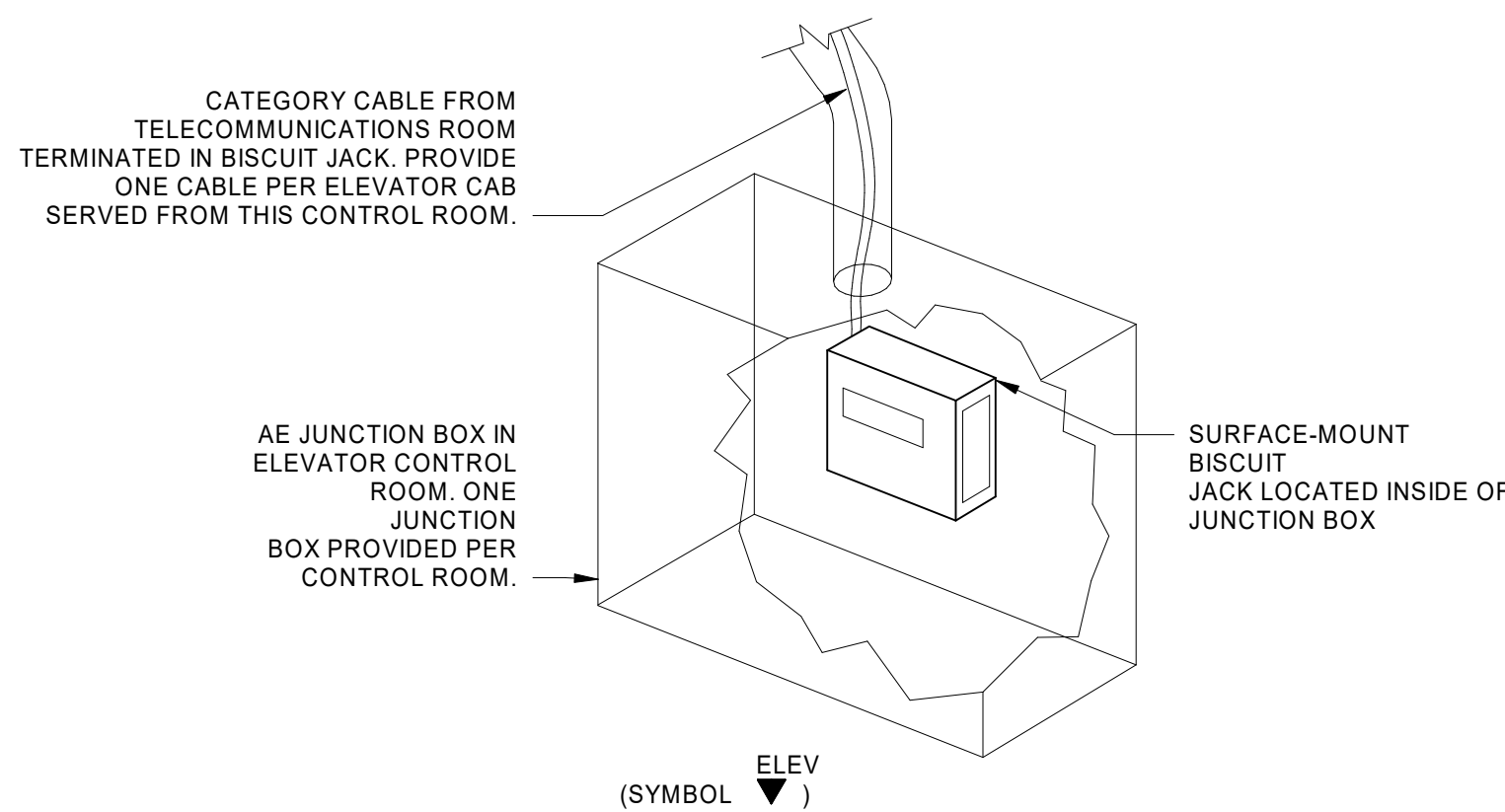
2 CEILING COMM OUTLET 2D
NTS



3 SINGLE GANG COMM OUTLET (3D)
NTS



4 LABELING OF HORIZONTAL CABLE
NTS



5 COMM OUTLET FOR ELEVATOR - LAND LINE
NTS