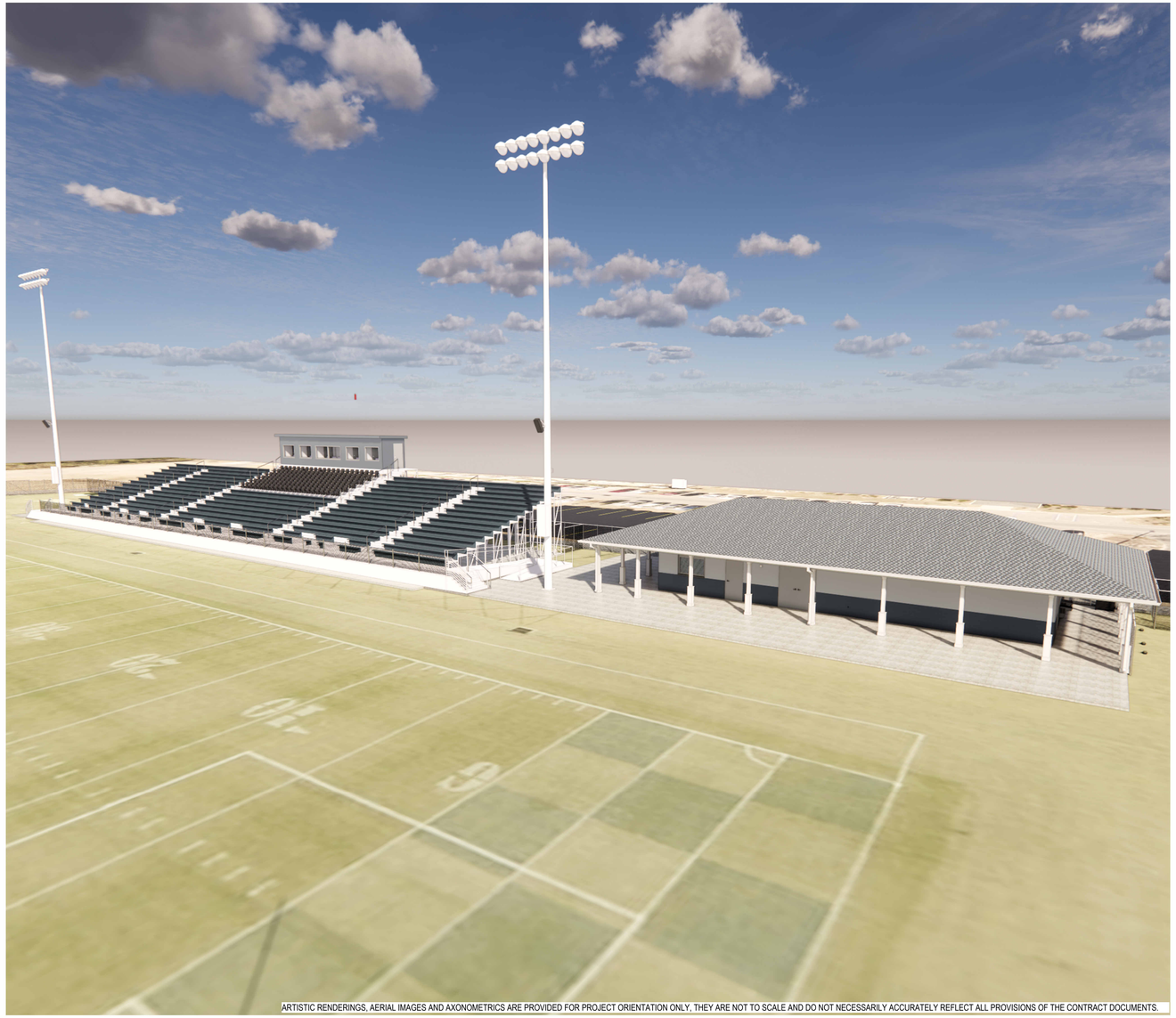

ARTISTIC RENDERINGS, AERIAL IMAGES AND AXONOMETRICS ARE PROVIDED FOR PROJECT ORIENTATION ONLY, THEY ARE NOT TO SCALE AND DO NOT NECESSARILY ACCURATELY REFLECT ALL PROVISIONS OF THE CONTRACT DOCUMENTS.

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE	2025.07.02 DESIGN DEVELOPMENT	2025.08.06 FOR PERMIT
GENERAL			
G-001	COVER SHEET	◆	◆
G-002	TYPICAL MOUNTING HEIGHTS	◆	◆
ARCHITECTURAL			
LS101	CODE DATA & LIFE SAFETY PLAN - GRANDSTANDS	◆	◆
LS111	CODE DATA & LIFE SAFETY PLAN - CONCESSIONS	◆	◆
CIVIL			
C000	COVER SHEET	◆	◆
C001	GENERAL NOTES	◆	◆
C100	EXISTING CONDITIONS	◆	◆
C101	DEMOLITION AND SWPP	◆	◆
C102	SWPP NOTES	◆	◆
C103	SWPP DETAILS	◆	◆
C200	SITE PLAN	◆	◆
C300	GRADING PLAN	◆	◆
C400	UTILITY PLAN	◆	◆
C500	CONSTRUCTION DETAILS	◆	◆
C501	UTILITY DETAILS	◆	◆
C502	GRINDER STATION DETAILS		◆
STRUCTURAL			
S001	STRUCTURAL GENERAL NOTES	◆	◆
S002	STRUCTURAL GENERAL NOTES		◆
S101	CONCESSIONS FOUNDATION PLAN	◆	◆
S102	BLEACHERS FOUNDATION PLAN	◆	◆
S103	ROOF FRAMING PLAN	◆	◆
S301	STRUCTURAL SECTIONS	◆	◆
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S501	STRUCTURAL DETAILS	◆	◆
S502	STRUCTURAL DETAILS	◆	◆
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A-001	ABBREVIATIONS & SYMBOLS	◆	◆
A-022	PARTITION TYPES INTERIOR	◆	◆
A-101	ARCHITECTURAL SITE PLAN	◆	◆
A-102	ENLARGED SITE PLAN - GRANDSTAND PAD		◆
A-111	CONCESSION ANNOTATION PLAN	◆	◆
A-112	CONCESSION DIMENSION PLAN	◆	◆
A-113	CONCESSION FINISH PLAN	◆	◆
A-114	CONCESSION REFLECTED CEILING PLAN	◆	◆
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A-210	EXTERIOR ELEVATIONS	◆	◆
A-211	EXTERIOR ELEVATIONS	◆	◆
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A-501	DETAILS		◆
A-502	DETAILS		◆
A-503	DETAILS		◆
A-601	DOOR, FRAME, AND WINDOW SCHEDULE	◆	◆
A-602	DOOR & WINDOW DETAILS		◆
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PLUMBING			
P-001	PLUMBING LEGEND, SCHEDULES, DETAILS, NOTES	◆	◆
P-002	PLUMBING DETAILS	◆	◆
P-003	PLUMBING FIXTURE SPECIFICATIONS	◆	◆
P-101	PLUMBING NEW WORK PLAN	◆	◆
P-201	PLUMBING RISER DIAGRAMS		◆

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FIRE PROTECTION			
FP001	FIRE PROTECTION SITE PLAN	◆	◆
FP101	FIRE PROTECTION PLAN	◆	◆
MECHANICAL			
M-001	HVAC LEGEND, NOTES, AND SCHEDULES	◆	◆
M-101	HVAC FLOOR PLAN	◆	◆
M-201	HVAC DETAILS	◆	◆
ELECTRICAL			
E-001	ELECTRICAL LEGENDS AND NOTES	◆	◆
E-100	ELECTRICAL SITE PLAN	◆	◆
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E-102	LEVEL 1 - MECHANICAL POWER PLAN	◆	◆
E-103	LEVEL 1 - MISCELLANEOUS SYSTEMS PLAN	◆	◆
E-104	LEVEL 1 - LIGHTING PLAN	◆	◆
E-501	ELECTRICAL DETAILS	◆	◆
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E-503	GROUNDING DETAILS	◆	◆
E-504	LIGHTING DETAILS	◆	◆
E-601	MECHANICAL, LIGHTING, & MATRIX SCHEDULES	◆	◆
E-602	POWER, FIRE ALARM RISER & PANEL SCHEDULES	◆	◆

PROJECT SCOPE

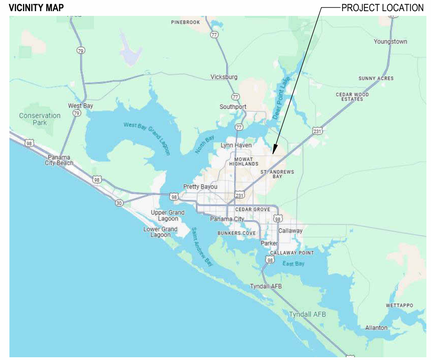
SELECTIVE DEMOLITION OF EXISTING HOME BLEACHER PAD AND SECTIONS OF EXISTING FENCE FOR THE CONSTRUCTION OF NEW GRANSTANDS WITH PRESS BOX AND CONCESSION / RESTROOM BUILDING AT THE FOOTBALL / SOCCER FIELD OF NORTH BAY HAVEN CHARTER ACADEMY LOCATED IN THE CITY OF LYNN HAVEN, BAY COUNTY, FLORIDA.

NEW IMPROVEMENTS TO INCLUDE THE CONSTRUCTION OF A 1,431 SEAT GRANDSTAND WITH A 384 SF PRESS BOX, A 1,922 SF CONCESSION / RESTROOM BUILDING WITH 1,172 SF OF COVERED EXTERIOR SPACE, ACCESS CONTROL GATES AND FENCING, SITE UTILITY CONNECTIONS, GRADING, ADDITIONAL ACCESSIBLE PARKING STALLS, HARDSCAPING IMPROVEMENTS, AND LANDSCAPE IMPROVEMENTS.

GRANDSTANDS TO BE PROVIDED VIA DELIGATED DESIGN AND SET ON SHALLOW FOUNDATIONS.

BUILDING CONSTRUCTION TO BE ON SHALLOW FOUNDATIONS, CMU BEARING WALLS WITH POST AND BEAM STEEL FRAME, STUD FRAMED WALL ASSEMBLIES, AND SHINGLED ROOF ASSEMBLY ON COLD FORMED STEEL TRUSSES.

VICINITY MAP



PROJECT TEAM

OWNER:	BAY HAVEN CHARTER ACADEMY, INC. 2501 HAWKS LANDING BLVD PANAMA CITY, FL 32405 CONTACT: LAURA ADAMS 850.248.3500
ARCHITECTURE:	DAG ARCHITECTS 455 HARRISON AVE., SUITE I PANAMA CITY, FL 32401 CONTACT: OWEN GIPSON 850.387.1671
CIVIL:	KIMELY HORN 120 RICHARD JACKSON BLVD, SUITE 230 PANAM CITY BEACH, FL 32407 CONTACT: JEFF BRITTAIN 850.630.9524
STRUCTURAL:	ATLAS ENGINEERING 455 HARRISON AVE., SUITE B PANAMA CITY, FL 32401 CONTACT: CODY HARDEN 850.708.5964
PLUMBING:	WATFORD ENGINEERING 4452 CLINTON ST. MARIANNA, FL 32446 CONTACT: DAVID WATFORD 850.526.3447
MECHANICAL:	WATFORD ENGINEERING 4452 CLINTON ST. MARIANNA, FL 32446 CONTACT: KEITH JOHNSON 850.526.3447
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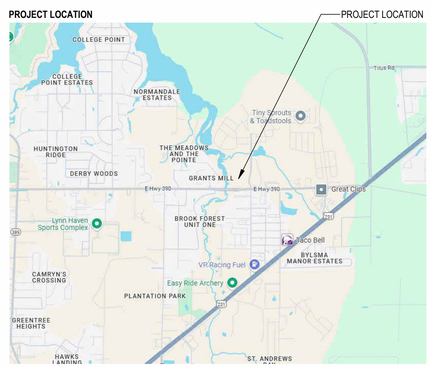
APPLICABLE CODES

2023 FLORIDA BUILDING CODE, BUILDING	8TH EDITION
2023 FLORIDA BUILDING CODE, ACCESSIBILITY	8TH EDITION
2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION	8TH EDITION
2023 FLORIDA BUILDING CODE, PLUMBING	8TH EDITION
2023 FLORIDA BUILDING CODE, MECHANICAL	8TH EDITION
2023 FLORIDA BUILDING CODE, FUEL GAS	8TH EDITION
2023 FLORIDA FIRE PREVENTION CODE: NFPA 1 & 101 (2021 ED)	8TH EDITION
2020 NFPA 70: NATIONAL ELECTRIC CODE	
FLORIDA STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 (ICC 300, 2017)	
CODE OF ORDINACES CITY OF LYNN HAVEN, FLORIDA	

PRODUCT APPROVALS - FLORIDA

CATEGORY	SUB-CATEGORY	MANUFACTURER	PRODUCT	APPROVAL #
EXTERIOR DOORS	HOLLOW METAL	ALLEGION-SCHLAGE LOCK COMPANY, LLC	OUTSWING DOUBLE FLUSH COMMERCIAL STEEL DOOR	FL12400.2-R17
			OUTSWING SINGLE FLUSH COMMERCIAL STEEL DOOR	FL12400.4-R17
	ROLL-UP EXTERIOR DOOR ASSEMBLIES	CLOPAY BUILDING PRODUCTS COMPANY	NON-INSULATED ROLLING COUNTER DOOR	FL14396.7-R6
WINDOWS	HORIZONTAL SLIDER	PELLA CORPORATION	520 PVC SLIDING WINDOW IMPACT	FL33558.1-R1
PANEL WALLS	SIDING	JAMES HARDIE BUILDING PRODUCTS	HARDIEPANEL SIDING	FL13223.4-R8
	SOFFITS		HARDIESOFFIT PANELS	FL13265.1-R7
ROOFING	APSHALT SHINGLES	GAF	ASPHALT ROOF SHINGLES	FL10124.2-R36
	UNDERLAYMENTS		ROOF UNDERLAYMENTS	FL10626.2-R29

PROJECT LOCATION



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FOR PERMIT

NORTH BAY HAVEN CHARTER ACADEMY

BLEACHERS & CONCESSION BUILDING

1 BUCCANEER DRIVE
PANAMA CITY, FL 32404

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25025
Dated	08.06.2025

COVER SHEET

G-001

TYPICAL MOUNTING HEIGHTS

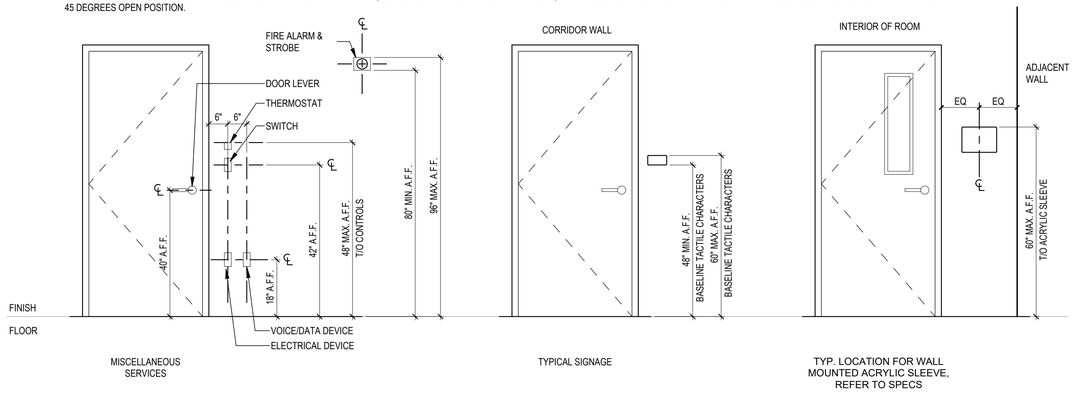
GENERAL NOTES:

1. PLUMBING FIXTURES / ACCESSORIES REPRESENTED ON THIS SHEET MAY NOT REFLECT THE SELECTED FIXTURE / ACCESSORIES
   A. REFER TO PLUMBING FOR FIXTURE SCHEDULES.
   B. REFER TO A-411 FOR TOILET ACCESSORY SCHEDULE
2. REFER TO A-400 SERIES SHEETS FOR PLUBMING FIXTURE / ACCESSORY LOCATIONS AND DIMENSIONS.
3. CONTRACTOR TO COORDINATE ACCESSORY INSTALLATION WITH OWNER AND ARCHITECT.

GENERAL PROJECT

GENERAL NOTES:

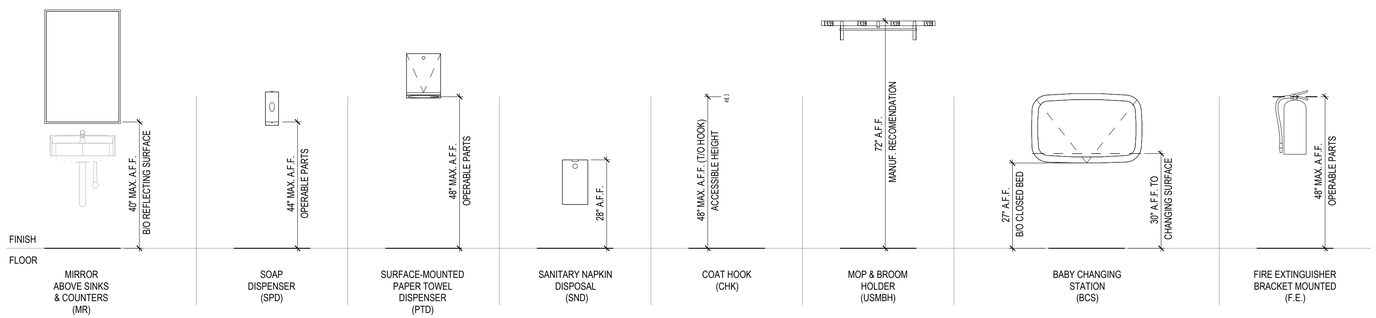
1. REFER TO FBC - ACCESSIBILITY 703 FOR ADDITIONAL INFORMATION REGARDING SIGNAGE.
2. TACTILE SIGNS SHALL BE LOCATED AS FOLLOWS PER FBC - ACCESSIBILITY 703.4.2:
   - SINGLE DOOR - ALONGSIDE THE DOOR AT THE LATCH SIDE.
   - DOUBLE DOOR WITH AN ACTIVE LEAF - SIGN SHALL BE LOCATED ON THE INACTIVE LEAF.
   - DOUBLE DOOR WITH TWO ACTIVE LEAFS - SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR.
   - NO WALL SPACE AT LATCH SIDE OR RIGHT SIDE OF DOUBLE DOORS - SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL
   - SIGNS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" x 18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREES OPEN POSITION.



TYPICAL ACCESSORIES

GENERAL NOTES:

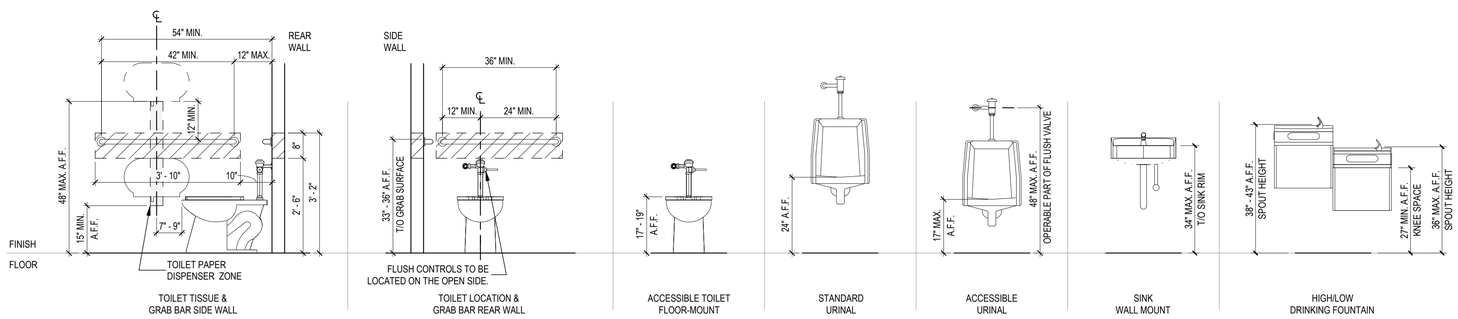
1. REFER TO FBC - ACCESSIBILITY 308 FOR ADDITIONAL INFORMATION REGARDING REACH RANGE.
2. REFERENCED OPERABLE PART DIMENSIONS SHOW THE MAXIMUM ABOVE FINISH FLOOR PLACEMENT ACCORDING TO IDEAL CONDITIONS. THESE ACCESSORIES CAN BE PLACED ANYWHERE WITHIN THE APPROPRIATE REACH RANGE, IN COORDINATION WITH ARCHITECT.



TOILET ROOM & PLUMBING FIXTURES

GENERAL NOTES:

1. REFER TO FBC - ACCESSIBILITY 306 FOR ADDITIONAL INFORMATION REGARDING KNEE AND TOE CLEARANCE.
2. DIAGONAL HATCHED REGION INDICATES IN-WALL 2x WOOD BLOCKING TO RESIST A 250 LB CONCENTRATED LOAD.
3. ALL EXPOSED PLUMBING UNDER LAVATORIES / SINKS ARE TO BE INSULATED OR OTHERWISE PROTECTED AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES/SINKS. (FBC - ACCESSIBILITY 606.5)



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FOR PERMIT

NORTH BAY HAVEN CHARTER ACADEMY
BLEACHERS & CONCESSION BUILDING

1 BUCCANEER DRIVE
PANAMA CITY, FL 32404

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25025**
Dated	08.06.2025

TYPICAL MOUNTING HEIGHTS

G-002

APPLICABLE CODES

2023 FLORIDA BUILDING CODE, BUILDING	8TH EDITION
2023 FLORIDA BUILDING CODE, ACCESSIBILITY	8TH EDITION
2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION	8TH EDITION
2023 FLORIDA BUILDING CODE, PLUMBING	8TH EDITION
2023 FLORIDA BUILDING CODE, MECHANICAL	8TH EDITION
2023 FLORIDA BUILDING CODE, FUEL GAS	8TH EDITION
2023 FLORIDA FIRE PREVENTION CODE: NFPA 1 & 101 (2021 ED)	8TH EDITION

2020 NFPA 70: NATIONAL ELECTRIC CODE
FLORIDA STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 (ICC 300, 2017)
CODE OF ORDINACES CITY OF LYNN HAVEN, FLORIDA

BUILDING DATA

CONSTRUCTION TYPE: **TYPE IIB (FBC 602.2)**
SPRINKLER SYSTEM: **NON SPRINKLERED (FBC 903.2.1.5, NFPA 101 12.3.5.3)**
FIRE ALARM: **YES (ICC-300 309; FBC 907.2.1)**
FIRE DISTRICT: **CITY OF LYNN HAVEN, FL**
AREAS OF REFUGE: **N/A (SINGLE STORY BUILDING)**

BUILDING AREA: PRESS BOX 384 SF

FLORIDA BUILDING CODE, BUILDING

CHAPTER 3 - USE AND OCCUPANCY

SECTION 303.6 ASSEMBLY, GROUP A-5

CHAPTER 5 - GEN. BUILDING HEIGHTS AND AREAS

TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE

OCCUPANCY CLASSIFICATION	S / NS	ALLOWABLE HEIGHT	**ACTUAL HEIGHT**
A	NS	55'	**27'-0"**

TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE

OCCUPANCY CLASSIFICATION	S / NS	ALLOW. NO. STORIES	**ACTUAL NO. STORIES**
A-5	NS	UL	**1**

SECTION 506.2 ALLOWABLE AREA FACTOR

OCCUPANCY CLASSIFICATION	S / NS	ALLOWABLE AREA	**ACTUAL AREA**
A-5	NS	UL	**8,207 SF**

CHAPTER 6 - TYPES OF CONSTRUCTION

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)
PRIMARY STRUCTURAL FRAME 0
BEARING WALLS
EXTERIOR 0
INTERIOR 0
NONBEARING WALLS AND PARTITIONS
EXTERIOR .....SEE TABLE 705.5
NONBEARING WALLS AND PARTITIONS
INTERIOR 0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS 0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS 0

SECTION 602.2 TYPE IIB

CHAPTER 7 - FIRE AND SMOKE PROTECTION

TABLE 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS
X < 5 1
5 ≤ X < 10 1
10 ≤ X < 30 0
X ≥ 30 0

CHAPTER 8 - INTERIOR FINISHES

SECTION 803.1.1 INTERIOR WALL AND CEILING FINISH MATERIALS
CLASS A FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450
CLASS B FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450
CLASS C FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450

TABLE 803.11 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

	NON SPRINKLERED		
GROUP	INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS	ROOMS AND ENCLOSED SPACES
A-5	A	A	C

CHAPTER 9 - FIRE PROTECTION SYSTEMS

903.2.1.5 GROUP A-5 - PRESS BOXES IN EXCESS OF 1,000 SQUARE FEET REQUIRE AN AUTOMATIC SPRINKLER SYSTEM. **PROVIDED PRESS BOX IS 384 SF.**

TABLE 906.3(1) FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS

HAZARD	MIN. RATED SINGLE EXTINGUISHER	MIN. FLOOR AREA PER UNIT OF A	MAX. FLOOR AREA FOR EXTINGUISHER	MAX. DISTANCE OF TRAVEL TO EXTINGUISHER
LIGHT	2-A	3,000 SF	11,250 SF	75 FEET

907.2.1 GROUP A - A MANUAL FIRE ALARM IS REQUIRED IN GROUP A OCCUPANCIES WHERE THE OCCUPANT LOAD DUE TO THE ASSEMBLY OCCUPANCY IS 300 OR MORE. **GRANDSTAND OCCUPANT LOAD IS 1,469.**

FLORIDA STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 ICC-300, 2017

CHAPTER 3 - CONSTRUCTION

SECTION 302 PERMITTED MATERIALS
BLEACHERS AND GRANDSTANDS SHALL BE PERMITTED TO BE CONSTRUCTED OF COMBUSTIBLE OR NONCOMBUSTIBLE MATERIALS. OUTDOOR INSTALLATIONS SHALL BE CONSTRUCTED OF WEATHER RESISTANT MATERIALS. WHERE FERROUS METAL IS USED, IT SHALL BE PROTECTED FROM CORROSION. FASTENERS SHALL CONSIST OF ALUMINUM OR OTHER APPROVED CORROSION-RESISTANT MATERIALS AND/OR COATINGS.

SECTION 309 FIRE PROTECTION
FIRE PROTECTION SYSTEMS SHALL BE PROVIDED ACCORDING TO FBC.

CHAPTER 4 - EGRESS

SECTION 403 OCCUPANT LOAD
BENCH SEATING: 18" OF LENGTH OF THE BENCH
- 1' - 9" WIDTH = 1/ROW : 4 (ROW 01 HC SEATING; SECTION B & D) * 1 = 4
- 4' - 9" WIDTH = 3/ROW : 2 (ROW 01 HC SEATING; SECTION C) * 3 = 6
- 5' - 9" WIDTH = 3/ROW : 1 (ROW 01 HC SEATING; SECTION A) * 3 = 3
- 6' - 6" WIDTH = 4/ROW : 2 (ROW 02 HC SEATING; SECTION B & D) * 4 = 8
- 7' - 0" WIDTH = 4/ROW : 8 (ROW 01 & 02 HC SEATING; SECTION B & D) * 4 = 32
- 9' - 0" WIDTH = 6/ROW : 1 (ROW 02; SECTION A) * 6 = 6
- 9' - 6" WIDTH = 6/ROW : 2 (ROW 01 & 02; SECTION A) * 6 = 12
- 12' - 6" WIDTH = 8/ROW : 1 (ROW 02; SECTION C) * 8 = 8
- 13' - 0" WIDTH = 8/ROW : 4 (ROW 01 & 02 HC SEATING; SECTION C) * 8 = 32
- 21' - 6" WIDTH = 14/ROW: 12 (ROW 03 - 14; SECTION A) * 14 = 168
14 (ROW 01 - 14; SECTION E) * 14 = 196
- 31' - 6" WIDTH = 21/ROW: 24 (ROW 03 - 14; SECTION B & D) * 21 = 504
- 49' - 6" WIDTH = 33/ROW: 7 (ROW 03 - 09; SECTION C) * 33 = 231
- 57' - 6" WIDTH = 38/ROW: 2 (ROW 15; SECTION A/B & D/E) * 38 = 76

TOTAL BENCH SEATING = 1,286

INDIVIDUAL SEATING: ONE PERSON PER SEAT
- FIXED SEATS = 22/ROW: 6 (ROW 10 - 15; SECTION C) * 22 = 132
-WHEELCHAIR SPACE
SINGLE SPACE: 1 (SECTION A) * 1 = 1
DOUBLE SPACE: 2 (SECTION B) * 2 = 4
2 (SECTION C) * 2 = 4
2 (SECTION D) * 2 = 4

TOTAL INDIVIDUAL SEATING = 145

PRESS BOX: 7 SF FOR MOVABLE CHAIR SEATING
- COACHES' BOOTH = 6 SEATS * 4 BOOTHS = 24
- ANNOUNCER/TIMEKEEPER BOOTH = 10 SEATS = 10
- CAMERA PLATFORM (ROOF) = 4 SPACES = 4

TOTAL PRESS BOX OCCUPANTS = 38

TOTAL OCCUPANCY OF BLEACHERS = 1,469

SECTION 404 GENERAL MEANS OF EGRESS
TABLE 404.1 MINIMUM NUMBER OF EXITS

OCCUPANT LOAD	REQUIRED MEANS OF EGRESS
0-250	1
251-750	2
751-2,500	3
OVER 2,500	4

OPEN-AIR ASSEMBLY SEATING CAN HAVE A MINIMUM OF TWO EGRESS PATHS, SIZED TO ACCOMMODATE THE OCCUPANT LOAD, WHEN THE MEANS OF EGRESS CONVERGE.

404.4 TRAVEL DISTANCE - SHALL NOT EXCEED 400 FEET FROM SEAT TO THE PERIMETER OF THE SEATING STRUCTURE. DISTANCE SHALL BE MEASURED ALONG THE AISLES AND AISLE ACCESSWAY WITHOUT TRAVEL OVER OR ON THE SEATS.

404.5 REQUIRED WIDTH (TABLE 404.5(3))
TOTAL NUMBER OF SEATS IN THE OPEN AIR ASSEMBLY OCCUPANCY = ≤ 15,000
STAIRS AND STEPPED AISLES W/ HANDRAILS WITHIN 30" = **0.080**
PASSAGEWAYS, DOORWAYS AND RAMPS NOT STEEPER THAN IN1:10 SLOPE = **0.060**
RAMPS STEPPER THAN IN 1"10 SLOPE = **0.066**

STAIRS
OCCUPANT LOAD * 0.080" PER OCCUPANT = 1,469 * 0.080" = 117.52" ~ 118" REQUIRED WIDTH
2 STAIRS = 118" / 2 = 59" REQUIRED WIDTH PER STAIR; **PROVIDED WIDTH PER STAIR = 60"**

STEPPED AISLES
OCCUPANT LOAD * 0.080" PER OCCUPANT = 1,469 * 0.080" = 117.52" ~ 118" REQUIRED WIDTH
4 AISLES = 118" / 4 = 29.5" REQUIRED WIDTH PER AISLE; **PROVIDED WIDTH PER AISLE = 54"**

MEANS OF EGRESS PASSAGEWAY
OCCUPANT LOAD * 0.060" PER OCCUPANT = 1,469 * 0.060" = 88.14" ~ 89" REQUIRED WIDTH
2 EXITS - 89" / 2 = 44.5" REQUIRED WIDTH; **PROVIDED WIDTH = 60"**

EXIT GATES
OCCUPANT LOAD * 0.060" PER OCCUPANT = 1,475' * 0.060" = 88.5" ~ 89" REQUIRED WIDTH
4 GATES = 89" / 4 = 22.25" REQUIRED WIDTH; **PROVIDED WIDTH PER GATE = 44"**

1. BLEACHER OCCUPANT LOAD + CONCESSIONS OCCUPANT LOAD (1,469 + 6 = 1,475)

ACCESSIBLE RAMP
OCCUPANT LOAD * 0.066" PER OCCUPANT = 1,469 * 0.066" = 98.54" ~ 99" REQUIRED WIDTH
2 RAMPS = 99" / 2 = 49.5" REQUIRED WIDTH; **PROVIDED WIDTH PER RAMP = 54"**

SECTION 405 AISLES
405.2 MINIMUM AISLE WIDTH
STEPPED AISLES WITH SEATING ON EACH SIDE = 48"
SERVES LESS THAN 50 SEATS = 36"

405.6 DEAD ENDS
NON-SMOKE PROTECTED SEATING - SHALL NOT EXCEED 16 ROWS

SECTION 407 AISLE ACCESSWAYS
407.1 REQUIRED AISLE ACCESSWAY - BLEACHER-TYPE SEATS, MINIMUM DEPTH OF 9", SHALL HAVE A MINIMUM ROW-TO-ROW SPACING OF 22".
407.4.1 PATH OF EGRESS TRAVEL - BENCH-TYPE SEATING, WITHOUT BACKRESTS AND NO MORE THAN 7" ABOVE THE FOOTREST IMMEDIATELY BEHIND, SHALL HAVE A COMMON PATH OF TRAVEL NOT IN EXCESS OF 75' FROM ANY SEAT.

FLORIDA BUILDING CODE, ACCESSIBILITY

CHAPTER 2 - SCOPING REQUIREMENTS

SECTION 221 ASSEMBLY AREAS
WHEELCHAIR SPACES, COMPANION SEATS, AND DESIGNATED AISLE SEATS SHALL BE PROVIDED.
221.2 WHEELCHAIR SPACES

TABLE 221.2.1.1 SEATING CAPACITY

CAPACITY OF SEATING IN ASSEMBLY AREAS	NUMBER OF REQUIRED WHEELCHAIR LOCATIONS
501 TO 5,000	6, PLUS 1 FOR EACH 150, OR FRACTION THEREOF BETWEEN 501 THROUGH 5,000

BLEACHERS:
SEATING CAPACITY = 1,442
1,442 - 500 = 942; 942 / 150 = 6.28 ~ 7
REQUIRED WHEELCHAIR SPACES = 6 + 7 = 13 SPACES

CHAPTER 4 - ACCESSIBLE ROUTES

SECTION 404 DOORS, DOORWAYS, AND GATES
404.2.3 CLEAR WIDTH - MANUAL GATES SHALL HAVE A MINIMUM CLEAR WIDTH OF 32".

SECTION 405 RAMPS
405.5 CLEAR WIDTH - RAMP SHALL HAVE A MINIMUM CLEAR WIDTH OF 36" BETWEEN HANDRAILS.

CHAPTER 8 - SPECIAL ROOMS, SPACES AND ELEMENTS

SECTION 802 WHEELCHAIR SPACES, COMPANION SEATS, AND DESIGNATED AISLE SEATS
802.1.2 WHEELCHAIR SPACE WIDTH - SINGLE SPACE SHALL BE A MINIMUM WIDTH OF 36", AND A MINIMUM OF 33" WHERE TWO ADJACENT SPACES ARE PROVIDED.
802.1.3 WHEELCHAIR DEPTH - SPACE SHALL BE A MINIMUM OF 48" DEEP FOR A FRONT OR REAR ENTRY SPACE.
802.3 COMPANION SEATS SHALL BE LOCATED TO PROVIDE SHOULDER ALIGNMENT WITH ADJACENT WHEELCHAIR SPACE AND SHARE THE SAME FLOOR ELEVATION.

FLORIDA BUILDING CODE, ENERGY CONSERVATION

CHAPTER 3 - GENERAL REQUIREMENTS

TABLE C301.1 2A BAY COUNTY WARM-HUMID

CHAPTER 4 - COMMERCIAL ENERGY EFFICIENCY

SECTION C402 BUILDING ENVELOPE REQUIREMENTS

PRESS BOX
TABLE C402.1.4 OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MIN. REQUIREMENTS, U-FACTOR METHOD.

ROOFS	
ATTIC AND OTHER	U-0.027
WALLS, ABOVE GRADE	
METAL FRAMMED	U-0.077
FLOORS	
JOIST/FRAMING	U-0.033

TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAX. U-FACTOR AND SHGC REQUIREMENTS

VERTICAL FENESTRATION - U-FACTOR		
FIXED FENESTRATION	0.50	
OPERABLE FENESTRATION	0.65	
ENTRANCE DOORS	0.83	
VERTICAL FENESTRATION - SHGC		
ORIENTATION	SEW	N
PF < 0.2	0.25	0.33
0.2 ≤ PF < 0.5	0.30	0.37
PF ≥ 0.5	0.40	0.40

FLORIDA FIRE PROTECTION CODE (NFPA 101)

CHAPTER 12 - NEW ASSEMBLY OCCUPANCIES

SECTION 12.4.10 GRANDSTANDS
TABLE 12.4.10.2.5 MAXIMUM NUMBER OF SEATS BETWEEN FARTHEST SEAT AND AN AISLE

APPLICATION	OUTDOORS	INDOORS
GRANDSTANDS	11	6
BLEACHERS	20	9

LIFE SAFETY SYMBOLS

ONE HOUR-RATED FIRE BARRIER

TWO HOUR-RATED FIRE BARRIER

TRAVEL DISTANCE (IN FEET)
TRAVEL DIST. = XX
START POINT
END POINT
PATH OF TRAVEL

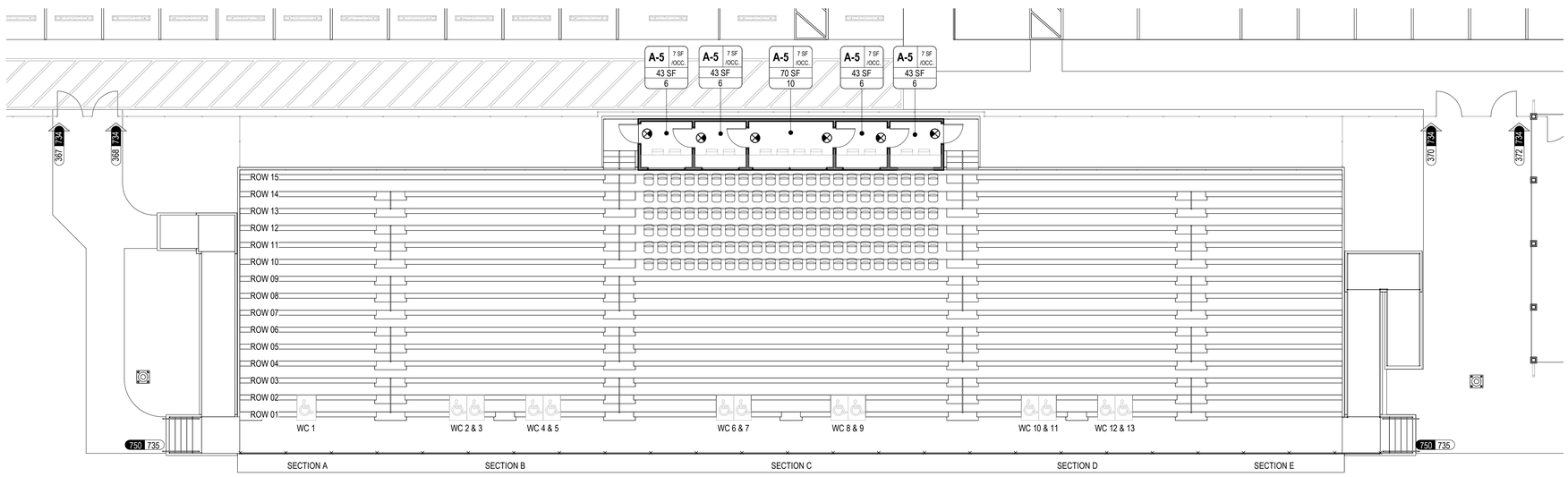
ALLOWABLE EGRESS COMPONENT OCCUPANT LOAD
340 120
ACTUAL OCCUPANT LOAD SERVED
DOOR EGRESS CAPACITY

ALLOWABLE EGRESS COMPONENT OCCUPANT LOAD
220 16
ACTUAL OCCUPANT LOAD SERVED
STAIR EGRESS CAPACITY

OCCUPANCY TYPE
AREA PER OCCUPANT
E
30 SF /OCC.
1,550 SF
52
AREA
OCCUPANTS
OCCUPANT LOAD PER AREA

FE
FIRE EXTINGUISHER (BRACKET MOUNTED) REFER TO SPECIFICATIONS

EXIT EXIT
EXIT SIGNS - SEE ELECTRICAL



A2 LIFE SAFETY PLAN - GRANDSTANDS
SCALE: 3/32" = 1'-0"

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BLEACHERS & CONCESSION BUILDING

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REVISIONS
NO. DESCRIPTION *DATE*

Project Number **25025**
Dated 08.06.2025

CODE DATA & LIFE SAFETY PLAN - GRANDSTANDS

LS101

APPLICABLE CODES

2023 FLORIDA BUILDING CODE, BUILDING	8TH EDITION
2023 FLORIDA BUILDING CODE, ACCESSIBILITY	8TH EDITION
2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION	8TH EDITION
2023 FLORIDA BUILDING CODE, PLUMBING	8TH EDITION
2023 FLORIDA BUILDING CODE, MECHANICAL	8TH EDITION
2023 FLORIDA BUILDING CODE, FUEL GAS	8TH EDITION
2023 FLORIDA FIRE PREVENTION CODE: NFPA 1 & 101 (2021 ED)	8TH EDITION

2020 NFPA 70: NATIONAL ELECTRIC CODE
FLORIDA STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2017 (ICC 300, 2017)
CODE OF ORDINACES CITY OF LYNN HAVEN, FLORIDA

BUILDING DATA

CONSTRUCTION TYPE:	**TYPE VB (FBC 602.2, 453.8.3.4)**	
SPRINKLER SYSTEM:	**SPRINKLERED (FBC 903.2.1.5)**	
FIRE ALARM:	**YES (FBC 907.2.1 - NFPA 101 12.3.4.1.1)**	
FIRE DISTRICT:	**CITY OF LYNN HAVEN, FL**	
AREAS OF REFUGE:	**N/A (SINGLE STORY BUILDING)**	
BUILDING AREA:	UNCONDITIONED SPACE	1,922 SF
	UNDER ROOF SPACE	1,172 SF
	TOTAL BUILDING AREA	**3,094 SF**

FLORIDA BUILDING CODE, BUILDING

CHAPTER 3 - USE AND OCCUPANCY

SECTION 303.6 ASSEMBLY, GROUP A-5

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE

SECTION 453 STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES
453.8.1 EDUCATIONAL OCCUPANCY - FACILITIES SHALL COMPLY WITH THE EDUCATIONAL OCCUPANCY, GROUP E, AND ASSEMBLY OCCUPANCY, GROUP A AS APPLICABLE.
453.8.3.4 EXCEPTIONS TO TYPES OF CONSTRUCTION - SINGLE STORY CONCESSION STANDS AND RELATED PUBLIC TOILET ROOMS THAT ARE DETACHED FROM THE MAIN EDUCATIONAL FACILITY BY AT LEAST 60 FEET, MAY BE TYPE V CONSTRUCTION
453.11 WOOD: FIRE-RETARDENT-TREATED WOOD - NOT PERMITTED IN PERMANENT EDUCATIONAL FACILITIES

CHAPTER 5 - GEN. BUILDING HEIGHTS AND AREAS

TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE

OCCUPANCY CLASSIFICATION	S / NS	ALLOWABLE HEIGHT	**ACTUAL HEIGHT**
A	NS	40'	**17'-0"**

TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE

OCCUPANCY CLASSIFICATION	S / NS	ALLOW. NO. STORIES	**ACTUAL NO. STORIES**
A-5	NS	UL	**1**

SECTION 506.2.1 SINGLE-OCCUPANCY, ONE-STORY BUILDINGS

EQUATION 5-1
$A_a = A_t + (NS \times I_f)$ $\quad Aa = UL + (UL \times 0.75)$ $\quad \underline{Aa = UL}$

OCCUPANCY CLASSIFICATION	S / NS	ALLOWABLE AREA	**ACTUAL AREA**
A-5	NS	UL	**3,094 SF**

CHAPTER 6 - TYPES OF CONSTRUCTION

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)
- PRIMARY STRUCTURAL FRAME 0
- BEARING WALLS
  - EXTERIOR 0
  - INTERIOR 0
- NONBEARING WALLS AND PARTITIONS
  - EXTERIOR .....SEE TABLE 705.5
- NONBEARING WALLS AND PARTITIONS
  - INTERIOR 0
- FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS 0
- ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS 0

SECTION 602.5 TYPE V

CHAPTER 7 - FIRE AND SMOKE PROTECTION

TABLE 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS
- X < 5 1
- 5 ≤ X < 10 1
- 10 ≤ X < 30 1
- X ≥ 30 0

CHAPTER 8 - INTERIOR FINISHES

SECTION 803.1.1 INTERIOR WALL AND CEILING FINISH MATERIALS
- CLASS A FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450
- CLASS B FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450
- CLASS C FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450

TABLE 803.11 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

	NON SPRINKLERED		
GROUP	INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS	ROOMS AND ENCLOSED SPACES
A-5	A	A	C

CHAPTER 9 - FIRE PROTECTION SYSTEMS

903.2.1.5 GROUP A-5 - AUTOMATIC SPRINKLER SYSTEM IS REQUIRED IN THE FOLLOWING GROUP A-5 OCCUPANCIES: CONCESSION STANDS, RETAIL AREAS, PRESS BOXES AND OTHER ACCESSORY USE AREAS IN EXCESS OF 1,000 SF. **MAIN BUILDING ENVELOPE = 1,922 SF.**

TABLE 906.3(1) FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS

HAZARD	MIN. RATED SINGLE EXTINGUISHER	MIN. FLOOR AREA PER UNIT OF A	MAX. FLOOR AREA FOR EXTINGUISHER	MAX. DISTANCE OF TRAVEL TO EXTINGUISHER
LIGHT	2-A	3,000 SF	11,250 SF	75 FEET

907.2.1 GROUP A - A MANUAL FIRE ALARM IS REQUIRED IN GROUP A OCCUPANCIES WHERE THE OCCUPANT LOAD DUE TO THE ASSEMBLY OCCUPANCY IS 300 OR MORE. **GRANDSTAND OCCUPANT LOAD IS 1,469.**

CHAPTER 10 - MEANS OF EGRESS

SECTION 1004 OCCUPANT LOAD

KITCHEN, COMMERCIAL	200 GROSS (TABLE 1004.5)
408 SF / 200 GROSS =	3 OCCUPANTS
BUSINESS	150 GROSS
65 SF / 150 GROSS =	1 OCCUPANT
STORAGE - CONCESSION	300 GROSS (TABLE 1004.5).
95 SF / 300 GROSS =	1 OCCUPANT
STORAGE - FIELD	300 GROSS (TABLE 1004.5).
180 SF / 300 GROSS =	1 OCCUPANT
TOTAL OCCUPANT LOAD =	**6 OCCUPANTS**

SECTION 1005.3.2 OTHER EGRESS COMPONENTS - 0.2 INCH PER OCCUPANT

SECTION 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS	
MAX COMMON PATH OF EGRESS TRAVEL (1006.2.1)	**75'**
MINIMUM NUMBER OF EXITS (TABLE 1006.2.1)	**1**
SECTION 1010 DOORS, GATES AND TURNSTILES	
DOOR MINIMUM CLEAR OPENING WIDTH	**32"**
SECTION 1017 EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)	
OCCUPANCY A	**250'**

CHAPTER 29 - PLUMBING SYSTEMS

TABLE 2902.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

CLASSIFICATION	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	OTHER SERV. SINK
	MALE / FEMALE	MALE / FEMALE		
ASSEMBLY A-5	737.5 / 75[1] = 9.83	737.5 / 200 = 3.69	1,475 / 1,000 = 1.5	1
	737.5 / 40[2] = 18.43	737.5 / 150 = 4.92		
PROVIDED	**10 / 19**	**4 / 5**	**2**	**1**

1. MALE: 1 PER 75 FOR THE FIRST 1,500 AND 1 PER 120 FOR THE REMAINDER EXCEEDING 1,500
2. FEMALE:1 PER 40 FOR THE FIRST 1,520 AND 1 PER 60 FOR THE REMAINDER EXCEEDING 1,520

FLORIDA BUILDING CODE, ACCESSIBILITY

CHAPTER 2 - SCOPING REQUIREMENTS

SECTION 213 TOILET FACILITIES AND BATHING FACILITIES
213.3.1 TOILET COMPARTMENTS - SHALL HAVE AT LEAST ONE WHEELCHAIR ACCESSIBLE COMPARTMENT (604.8.1). IN ADDITION, AN AMBULATORY ACCESSIBLE COMPARTMENT (604.8.2) IS REQUIRED WHERE SIX OR MORE COMPARTMENTS ARE PROVIDED, OR WHERE THE COMBINATION OF URINALS AND WATER CLOSETS TOTALS SIX OR MORE FIXTURES.

CHAPTER 4 - ACCESSIBLE ROUTES

SECTION 404 DOORS, DOORWAYS, AND GATES
404.2.3 CLEAR WIDTH - DOORS SHALL HAVE A MINIMUM CLEAR WIDTH OF 32".

FLORIDA BUILDING CODE, ENERGY CONSERVATION

CHAPTER 3 - GENERAL REQUIREMENTS

TABLE C301.1 2A BAY COUNTY WARM-HUMID

CHAPTER 4 - COMMERCIAL ENERGY EFFICIENCY

SECTION C402 BUILDING ENVELOPE REQUIREMENTS
C402.1.1 LOW-ENERGY BUILDINGS AND GREENHOUSES - BUILDINGS THAT DO NOT CONTAIN CONDITIONED SPACE ARE EXEMPT FROM THE BUILDING THERMAL ENVELOPE PROVISIONS OF SECTION C402; **CONCESSION BUILDING IS UNCONDITIONED.**

NFPA 101

CHAPTER 6 - CLASSIFICATION OF OCCUPANCY AND HAZARD OF CONTENTS

SECTION 6.1
6.1.2 ASSEMBLY
6.2.2 CLASSIFICATION OF HAZARD CONTENTS - 6.2.2.2 LIGHT HAZARD CONTENTS

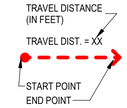
CHAPTER 12 - NEW ASSEMBLY OCCUPANCIES

SECTION 12.3 PROTECTION
12.3.4 DETECTION, ALARM, AND COMMUNICATION SYSTEMS - APPROVED FIRE ALARM SYSTEM ARE REQUIRED FOR ASSEMBLY OCCUPANCIES WITH OCCUPANT LOADS OF MORE THAN 300.
12.3.5 EXTINGUISHMENT REQUIREMENTS - APPROVED SUPERVISED AUTOMATIC SPRINKLER SYSTEM IS REQUIRED IN ANY BUILDING WITH AN AGGREGATE OCCUPANT LOAD OF THE ASSEMBLY OCCUPANCIES IN EXCESS OF 300.
PRESS BOXES OF LESS THAN 1,000 SF LOCATED IN UNENCLOSED STADIA ARE EXEMPT.

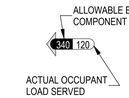
LIFE SAFETY SYMBOLS

ONE HOUR-RATED FIRE BARRIER

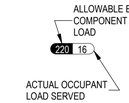
TWO HOUR-RATED FIRE BARRIER



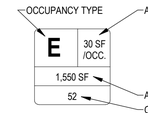
PATH OF TRAVEL



DOOR EGRESS CAPACITY



STAIR EGRESS CAPACITY



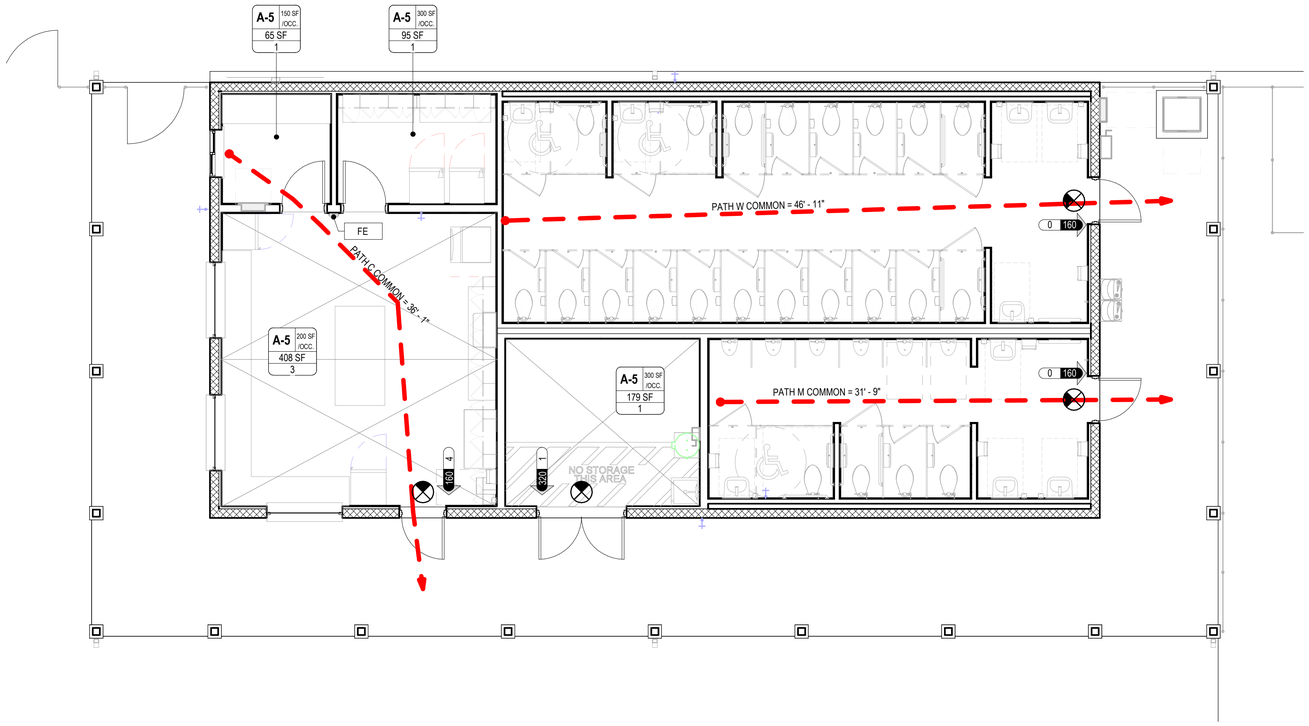
OCCUPANT LOAD PER AREA

FE
FIRE EXTINGUISHER (BRACKET MOUNTED) REFER TO SPECIFICATIONS

EXIT EXIT
EXIT SIGNS - SEE ELECTRICAL

TRAVEL DISTANCES

PATH ID	TRAVEL DISTANCE ON PATH
C COMMON	36' - 1"
M COMMON	31' - 9"
W COMMON	46' - 11"



A3 LIFE SAFETY PLAN - CONCESSION BUILDING
SCALE: 3/16" = 1'-0"

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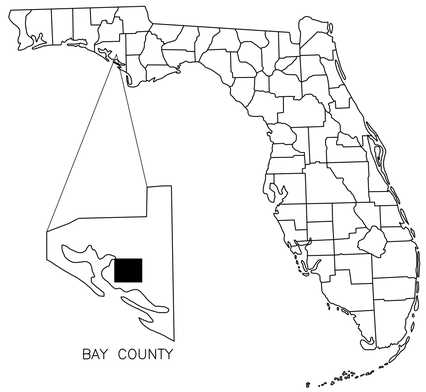
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25025**
Dated	08.06.2025

CODE DATA & LIFE SAFETY PLAN - CONCESSIONS

LS111



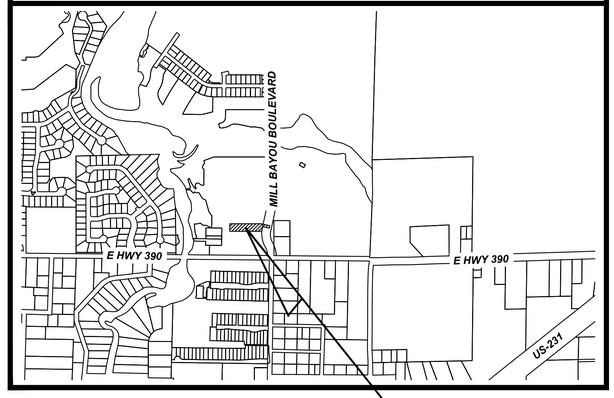
VICINITY MAP

SCALE: N.T.S.

PERMITTING PLANS
FOR
NORTH BAY HAVEN CHARTER ACADEMY
MILL BAYOU BOULEVARD
LYNN HAVEN, FLORIDA 32444
PARCEL ID: #11344-020-000

AUGUST 2025

LOCATION MAP



VICINITY MAP

SCALE: 1"=1000'

PERMITTING PLANS
NOT FOR
CONSTRUCTION

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C000	COVER SHEET
C001	GENERAL NOTES
C100	EXISTING CONDITIONS
C101	DEMOLITION AND SWPPP
C102	SWPPP NOTES
C103	SWPPP DETAILS
C200	SITE PLAN
C300	GRADING PLAN
C400	UTILITY PLAN
C500	CONSTRUCTION DETAILS
C501	UTILITY DETAILS
C502	GRINDER STATION DETAILS

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REVISIONS
NO. DESCRIPTION *DATE*

Project Number **25025**
Dated 08.06.2025

COVER SHEET
C000

Plotted By:Hunter, Broden Sheet Set:NBH_Field Layout:COVER SHEET August 08, 2025 02:34:11pm K:\PCB_civil\142792010-NBH_Field_Improvements\03_CADD\PlanSheets\C000 COVER SHEET.dwg

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.

3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. AN APPROXIMATE LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED DEMOLITION PERMITS, CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.

8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED AS-BUILT SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.

11. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.

12. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

14. ANY CONSTRUCTION ADJACENT TO A WETLAND AREA SHALL BE PERFORMED FROM THE UPLAND SIDE OF THE AREA. CONSTRUCTION ENCROACHMENT INTO A WETLAND AREA IS NOT ALLOWED UNLESS PERMITTED BY THE JURISDICTIONAL AGENCY.

15. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT FDOT STANDARD PLANS (SERIES 102) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

16. IF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, PROJECTILE POINTS, DUGOUT CANOES, METAL IMPLEMENTS, HISTORIC BUILDING MATERIALS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN, EARLY EUROPEAN, OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT SITE AREA THE PERMITTED PROJECT SHALL CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE VICINITY OF THE DISCOVERY. THE APPLICANT SHALL CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, COMPLIANCE REVIEW SECTION AT (850)-245-6333. PROJECT ACTIVITIES SHALL NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH SECTION 872.05, FLORIDA STATUTES.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.

2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.

3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN AND TREE INVENTORY PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SHOWN FOR REMOVAL SHALL BE PRESERVED UNTIL REVIEW WITH THE CITY ENVIRONMENTAL INSPECTOR. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.

4. CONTRACTOR SHALL ADJUST GRADE OF ANY EXISTING UTILITIES TO REMAIN.

5. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION PERMITS.

AS-BUILT DRAWINGS

1. CONTRACTOR SHALL PROVIDE TO THE ENGINEER AND OWNER A MINIMUM OF 2 HARD COPIES OF A PAVING, GRADING AND DRAINAGE AS- BUILT SURVEY DRAWING AND A SEPARATE UTILITY AS-BUILT SURVEY DRAWING, AS WELL AS BOTH IN AUTOCAD 2015 OR LATER, BOTH PREPARED BY A FLORIDA REGISTERED SURVEYOR. THE RECORD DRAWINGS SHALL VERIFY ALL DESIGN INFORMATION INCLUDED ON THE DESIGN PLANS OF THE SAME NAME.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR CITY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR CITY REGULATIONS.

2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.

3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND CITY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.

5. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.

6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.

7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.

8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.

9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.

10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.

11. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.

12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.

14. ALL CUT OR FILL SLOPES SHALL BE 3 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

16. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.

17. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.

18. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.

19. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.

20. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS.

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.

5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 55 CUBIC YARDS / ACRE.

7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

WATER AND SEWER UTILITY NOTES

1. ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM TO THE CITY OF LYNN HAVEN AND FDEP STANDARDS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

3. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.

4. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.

5. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.

6. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

7. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.

8. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

9. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.

10. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.

11. CONTRACTOR SHALL PERFORM WATER MAIN DISINFECTION PER AWWA STANDARD C651.

12. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY BY PROFESSIONAL LAND SURVEYOR CONFORMING WITH PANAMA CITY BEACH MINIMUM TECHNICAL STANDARDS CHECKLIST FOR UTILITY AS-BUILTS.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

5. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

13. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.

14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS. REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE REQUIREMENTS.

15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

18. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. ONCE GRADING IS COMPLETE, SLOPES SHALL BE STABILIZED WITH SOD AS SOON AS PRACTICAL.

20. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.

21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

22. ALL PROPOSED SILT FENCE LOCATED WITHIN THE CRITICAL PROTECTION ZONE OF A TREE SHALL BE OF A NON-TRENCHED VARIETY, UNLESS ARBORICULTURAL MITIGATION STATES OTHERWISE.

STABILIZATION NOTES

1. ALL DISTURBED AREAS IN THE RIGHT OF WAY TO BE RESTORED. SODDED OR SEEDED UP TO 1:4 (V:H) SLOPE SEED OR SOD IS ALLOWED, GREATER THAN 1:4 AND LESS THAN 1:3 SHALL BE SODDED, GREATER THAN 1:3 AND LESS THAN 1:2 SHALL BE SOD LAPPED AND PINNED AND GREATER THEN 1:2 IS NOT ALLOWED.
2. ANY FUTURE MAINTENANCE OR REPAIRS ON THE DRIVEWAY ARE THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER.
3. DRIVEWAY CONSTRUCTION OR REPAIRS MUST COMMENCE WITHIN TWO (2) YEARS OF PERMIT ISSUANCE. THIS PERMIT WILL EXPIRE TWO (2) YEARS FROM THE DATE OF ISSUE IF DRIVEWAY CONSTRUCTION HAS NOT YET STARTED.

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BLEACHERS &
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BUILDING

1 BUCCANEER DRIVE
PANAMA CITY, FL 32404

REVISIONS

NO.	DESCRIPTION	DATE

Project Number **25025**
Dated 08.06.2025

GENERAL NOTES
C001

Plotted By: Hunter, Braden Sheet Set: NBH_Field Layout: C001 GENERAL NOTES August 08, 2025 02:34:17pm K:\PCB_Civil\142792010-NBH_Field_Improvements\03_CADD\PlanSheets\C001 GENERAL NOTES.dwg

NORTH BAY HAVEN
CHARTER ACADEMY

GRAPHIC SCALE IN FEET
0 15 30 60

LEGEND

- EXISTING RIGHT OF WAY LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING FENCE
- EXISTING UNDERGROUND POWER
- EXISTING STORM PIPE
- EXISTING VALVE
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE SLAB

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REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25025**
Dated	08.06.2025

EXISTING CONDITIONS

C100

Plotted By:Hunter, Braden Sheet Set:NBH_Field Layout:C101 DEMO & SPPP August 08, 2025 02:34:33pm K:\PCB_Civil\142792010-NBH_Field_Improvements\03_CADD\PlanSheets\C101 DEMO AND SWPPP.dwg

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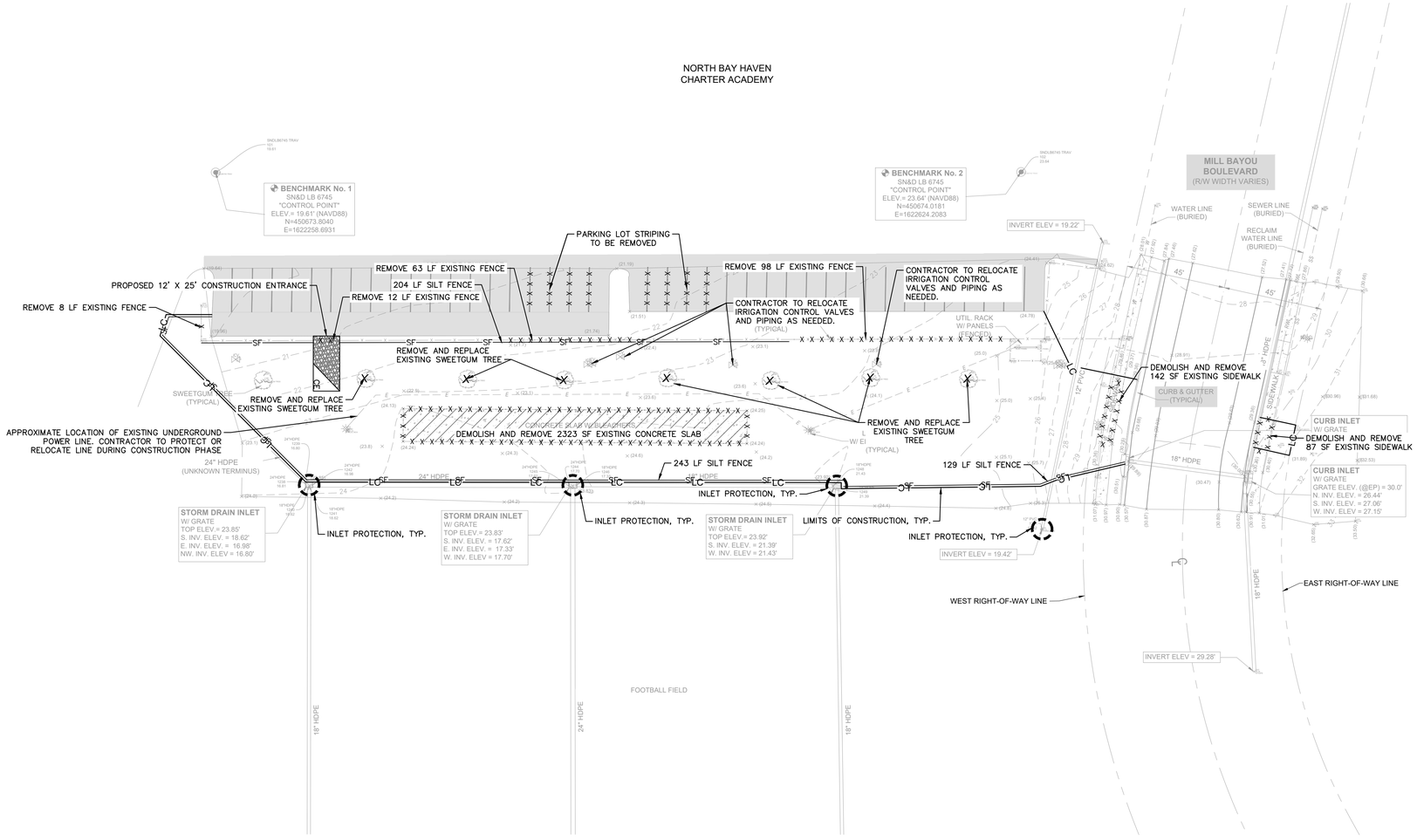
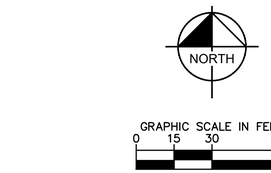
CHARTER ACADEMY





DEMOLITION LEGEND

LC	LIMITS OF CONSTRUCTION
SF	PROPOSED SILT FENCE
	EXISTING RIGHT OF WAY LINE
15	EXISTING MINOR CONTOUR
15	EXISTING MAJOR CONTOUR
X X X X	EXISTING FENCE
E E E E	EXISTING UNDERGROUND POWER
	EXISTING STORM PIPE
	EXISTING VALVE
X X X X X X X X X	TO BE DEMOLISHED
	EXISTING ASPHALT PAVEMENT
	EXISTING CONCRETE SLAB
X	OBJECT TO BE REMOVED
	INLET PROTECTION
	EXISTING TREE
CE	CONSTRUCTION ENTRANCE

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DEMOLITION AND SWPPP

C101

TIMING OF SEDIMENT - CONTROL PRACTICES:

SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH- DISTURBING ACTIVITY.

SETTLING FACILITIES, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RE-STABILIZED.

STABILIZATION OF NON STRUCTURAL PRACTICES:

CONTROL PRACTICES SHALL PRESERVE EXISTING VEGETATION WHERE ATTAINABLE AND DISTURBED AREAS SHALL BE RE-VEGETATED AS SOON AS PRACTICAL AFTER GRADING OR CONSTRUCTION.

DENUDED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN FOURTEEN DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN FORTY-FIVE DAYS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN FOURTEEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, AND SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FORTY-FIVE DAYS.

SEDIMENT BARRIERS:

SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SEDIMENT BARRIERS.

SEDIMENT BARRIERS SUCH AS SEDIMENT FENCE OR DIVERSIONS TO SETTLING FACILITIES SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.

INLET PROTECTION:

ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE DEVELOPMENT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SYSTEM WITHOUT FIRST BEING PONDED AND FILTERED.

MAINTENANCE:

TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.

STOCKPILES:

ALL SOIL STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVICES SUCH AS STRAW BALE DIKES OR FILTER FABRIC FENCES. AND THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

PERMANENT VEGETATION:

PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

CONSTRUCTION ACCESS ROUTES:

MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES OR PUBLIC ROADS WHERE RUNOFF IS NOT CHECKED.

INSPECTION SCHEDULE:

1. DIVERSION SWALE AND STRUCTURAL PROTECTION - INSPECT EVERY 7 DAYS OR AFTER EACH RAINSTORM PRODUCING RUNOFF. REPAIR AS REQUIRED.
2. INLET PROTECTION - INSPECT FOR SEDIMENT ACCUMULATION AFTER EACH RAINFALL AND DAILY DURING CONTINUED RAINFALL. REPAIR OR REPLACE WHEN WATER FLOW IS RESTRICTED BY SEDIMENT.
3. VEGETATIVE PLANTING - INSPECT AFTER SPROUTING OCCURS AND REPLANT BARE AREAS. INSPECT ESTABLISHED COVER EVERY 15 DAYS FOR DAMAGE; REPLANT AS REQUIRED. MAINTAIN ESTABLISHED COVER AT MAXIMUM 6" HEIGHT. IRRIGATE AS REQUIRED DURING DRY PERIODS TO MAINTAIN LIVE VEGETATION.

DITCH BARRIERS:

BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

THE REMAINING STEPS FOR INSTALLING A STRAW BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION. THE STRAW BALES SHALL BE INSTALLED SUCH THAT UNDERCUTTING BENEATH THE BALES IS MINIMIZED BY THE USE OF ROCK CHECK DAMS PLACED ADJACENT TO THE STRAW BALES.

THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT-LADEN RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.

MAINTENANCE:

STRAW BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

SEDIMENT FENCE:

THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

1. THE HEIGHT OF A SEDIMENT FENCE SHALL NOT EXCEED 36-INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8-INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
7. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSURE POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
8. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
9. SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE

SEDIMENT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SEDIMENT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

ADDITIONAL MEASURES:

THIS PLAN AND NARRATIVE REPRESENTS THE MINIMUM AMOUNT OF EROSION AND SEDIMENT CONTROL MEASURES, IN THE OPINION OF THE ENGINEER, THAT MAY BE NECESSARY UNDER FAVORABLE WEATHER CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL MEASURES OR PRACTICES THAT MAY BE NECESSARY TO CONTROL EROSION, TURBID DISCHARGE, FUGITIVE PARTICULATES, ETC. TO FULLY COMPLY WITH ALL GOVERNMENTAL RULES AND/OR PERMIT REQUIREMENTS.

EROSION AND SEDIMENT CONTROL NARRATIVE

CIVIL PLAN DESIGNER:	KIMLEY-HORN AND ASSOCIATES INC. 120 RICHARD JACKSON BOULEVARD, SUITE 230 PANAMA CITY BEACH, FLORIDA 32407 PHONE: (850) 533-3500
OWNER/ DEVELOPER:	NORTH BAY HAVEN CHARTER ACADEMY LAURA ADAMS 2501 HAWKS LANDING BOULEVARD PANAMA CITY, FL 32405
ADJACENT AREAS:	NORTH: NORTH BAY HAVEN ACADEMY SOUTH: E HIGHWAY 390 EAST: RESIDENTIAL WEST: MIXED
EROSION CONTROL MEASURE:	EROSION AND SITE RUNOFF WILL BE CONTROLLED BY THE USE OF SEDIMENT FENCE AND STABILIZED VEGETATION WHERE NEEDED.
SITE CONTACT:	DAG ARCHITECTS INC. 455 HARRISON AVENUE PANAMA CITY, FL 32401 (850) 387 1671

POLLUTION PREVENTION:

THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM IS REGULATED THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). IF YOUR CONSTRUCTION ACTIVITY MEETS THE FOLLOWING CRITERIA:

1. CONTRIBUTES STORM WATER DISCHARGE TO SURFACE WATERS OF THE STATE OR INTO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4); AND/OR
2. DISTURBS ONE OR MORE ACRES OF LAND INCLUDING LESS THAN ONE ACRE IF ACTIVITY IS PART OF A LARGE COMMON PLAN OF DEVELOPMENT OR SALE THAT WILL MEET OR EXCEED A ONE ACRE THRESHOLD. DISTURBANCE INCLUDES CLEARING, GRADING AND EXCAVATING. THEN YOU WILL BE REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) AND PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). FOR MORE INFORMATION PLEASE VISIT FDEP'S WEBSITE AT WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES.

CONSTRUCTION SEQUENCE:

1. INSTALL SEDIMENT CONTROL MEASURES
2. PERFORM DEMOLITION ACTIVITIES.
3. STABILIZE SITE WITH TEMPORARY VEGETATION AS NEEDED.
4. PERFORM UNDERGROUND UTILITY CONSTRUCTION ACTIVITIES.
5. CONSTRUCT INFRASTRUCTURE.
6. PERFORM FINAL GRADING.
7. INSTALL PERMANENT VEGETATION.
8. PERFORM CONTINUING MAINTENANCE THROUGHOUT ALL CONSTRUCTION OPERATIONS.

NOTE:
THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

Plotted By:Hunter, Braden Sheet Set:NBH_Field Layout:C102 SWPPP NOTES August 08, 2025 02:34:37pm K:\PCB_Civil\142792010-NBH_Field_Improvements\03_CADD\PlanSheets\C102 SWPPP DETAILS.dwg

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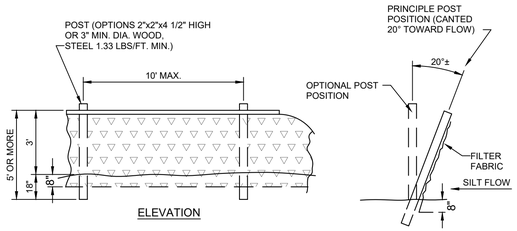
PANAMA CITY, FL 32404

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25025**
Dated	08.06.2025

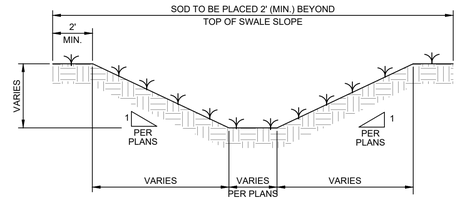
SWPPP NOTES
C102



TYPICAL SILT FENCE
N.T.S.

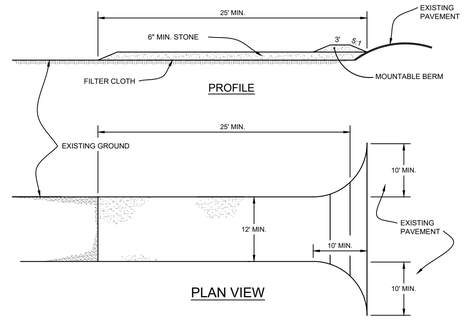
FILTER FABRIC
(IN CONFORMANCE
WITH SEC. 985 FDOT
SPECIFICATIONS)

FIGURE 1



TYPICAL SWALE SECTION
N.T.S.

FIGURE 2



STABILIZED CONSTRUCTION ENTRANCE

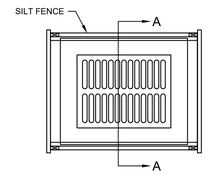
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

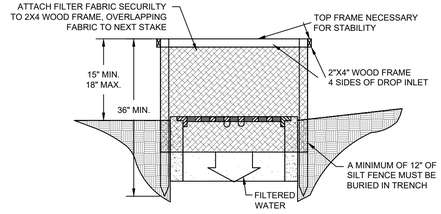
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

FIGURE 3

NOTES:

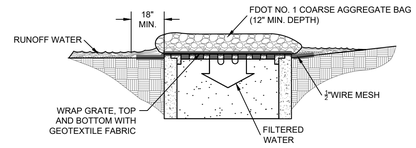
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%).
2. USE 2"X4" WOOD OR EQUIVALENT METAL STAKES (3 FT. MIN. LENGTH).
3. INSTALL 2"X4" WOOD FRAME TO INSURE STABILITY.
4. SEE EROSION CONTROL PLAN FOR LOCATIONS AND APPLICABILITY.





SECTION A-A

OPTION 1 SILT FENCE BARRIER



OPTION 2 GRAVEL AND WIRE MESH FILTER

DROP INLET SEDIMENT FILTER DETAIL
N.T.S.

FIGURE 4

Plotted By:Hunter, Braden Sheet Set:NBH_Field Layout:C103 SWPPP DETAILS August 08, 2025 02:34:38pm K:\PCB_Civil\142792010-NBH_Field_Improvements\03_CADD\PlanSheets\C102 SWPPP DETAILS.dwg

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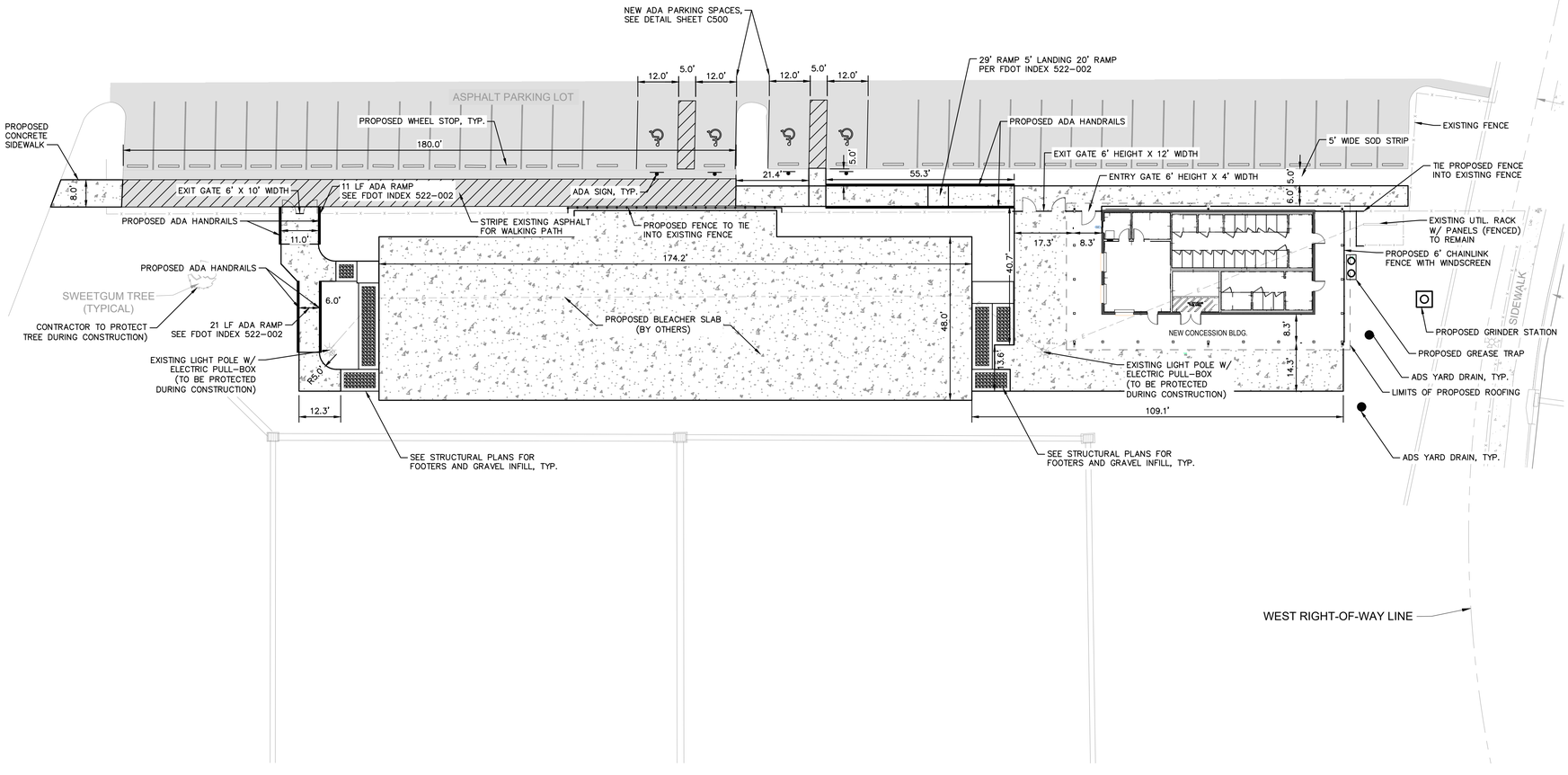
Project Number	**25025**
Dated	08.06.2025

SWPPP DETAILS
C103



NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND

- EXISTING RIGHT OF WAY LINE
- EXISTING FENCE
- EXISTING UNDERGROUND POWER
- EXISTING STORM PIPE
- EXISTING VALVE
- PROPOSED CONCRETE
- EXISTING ASPHALT PAVEMENT

NOTES:

1. SEE ARCHITECT PLANS FOR CONCESSIONS BUILDING DETAILS.
2. SEE STRUCTURAL PLANS FOR FOUNDATION AND FOOTER DESIGN OF BLEACHERS AND CONCESSIONS BUILDING.
3. SEE ARCHITECT PLANS FOR RAMPS AND BLEACHERS
4. CONTRACTOR TO PROTECT EXISTING UTILITY RACK

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Dated	08.06.2025

SITE PLAN
C200

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Plotted By:Hunter, Broden Sheet Set:NBH_Field Layout:C300 GRADING PLAN August 08, 2025 02:35:00pm K:\PCB_Civil\142792010--NBH_Field_Improvements\03_CADD\PlanSheets\C300 GRADING PLAN.dwg

BENCHMARK No. 1
SN&D LB 6745
"CONTROL POINT"
ELEV.= 19.61' (NAVD88)
N=450673.8040
E=1622258.6931

BENCHMARK No. 2
SN&D LB 6745
"CONTROL POINT"
ELEV.= 23.64' (NAVD88)
N=450674.0181
E=1622624.2083

CONTRACTOR TO CONFIRM A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ALL PROPOSED ADA STRIPING AREAS

EXISTING ASPHALT TO REMAIN, NO REPAVING IN PARKING AREA

INVERT ELEV = 19.22'

SWEETGUM TREE (TYPICAL)

FOUNDATION STEMWALL DESIGN BY OTHERS

SWALE CENTERLINE

24.50 FFE

CONCESSION BLDG.

ST-01
12" ADS YARD DRAIN
RIM: 24.24
INV OUT: 21.94

21 LF OF 12" HDPE @ 0.56%

81 LF OF 12" HDPE @ 0.49%

ST-02
12" ADS YARD DRAIN
RIM: 24.00
INV IN: 21.82
INV OUT: 21.82

EXISTING TIE-IN
RIM: 23.92
CORE INTO EXISTING INLET
INV IN: 21.43

INVERT ELEV = 19.42'

24" HDPE
(UNKNOWN TERMINUS)

24" HDPE

18" HDPE

STORM DRAIN INLET
W/ GRATE
TOP ELEV.= 23.85'
S. INV. ELEV. = 18.62'
E. INV. ELEV. = 16.98'
NW. INV. ELEV = 16.80'

STORM DRAIN INLET
W/ GRATE
TOP ELEV.= 23.83'
S. INV. ELEV. = 17.62'
E. INV. ELEV. = 17.33'
W. INV. ELEV = 17.70'

STORM DRAIN INLET
W/ GRATE
TOP ELEV.= 23.92'
S. INV. ELEV. = 21.39'
W. INV. ELEV = 21.43'

WEST RIGHT-OF-WAY LINE

18" HDPE

24" HDPE

18" HDPE

INVERT ELEV = 18.77'

INVERT ELEV = 18.46'

INVERT ELEV = 21.18'

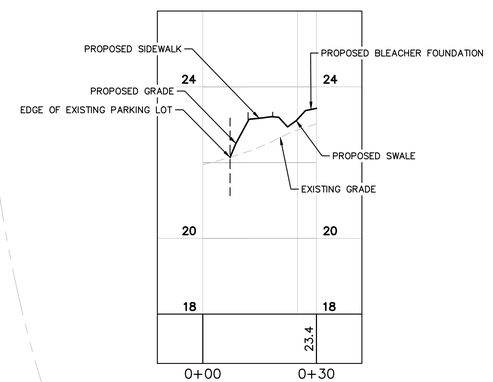
NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

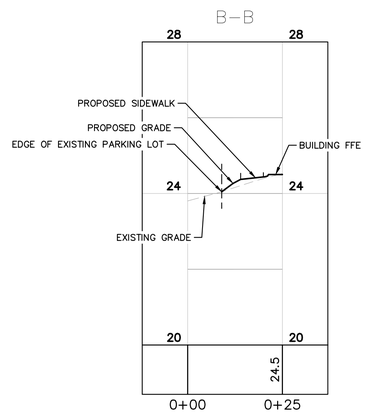
LEGEND

- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- MATCH EXISTING SPOT ELEVATION
- FINISHED FLOOR SPOT ELEVATION
- TOP OF WALL SPOT ELEVATION
- BOTTOM OF WALL SPOT ELEVATION
- PROPOSED ADS YARD DRAIN
- PROPOSED STORM PIPE

A–A



B–B



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GRADING PLAN
C300

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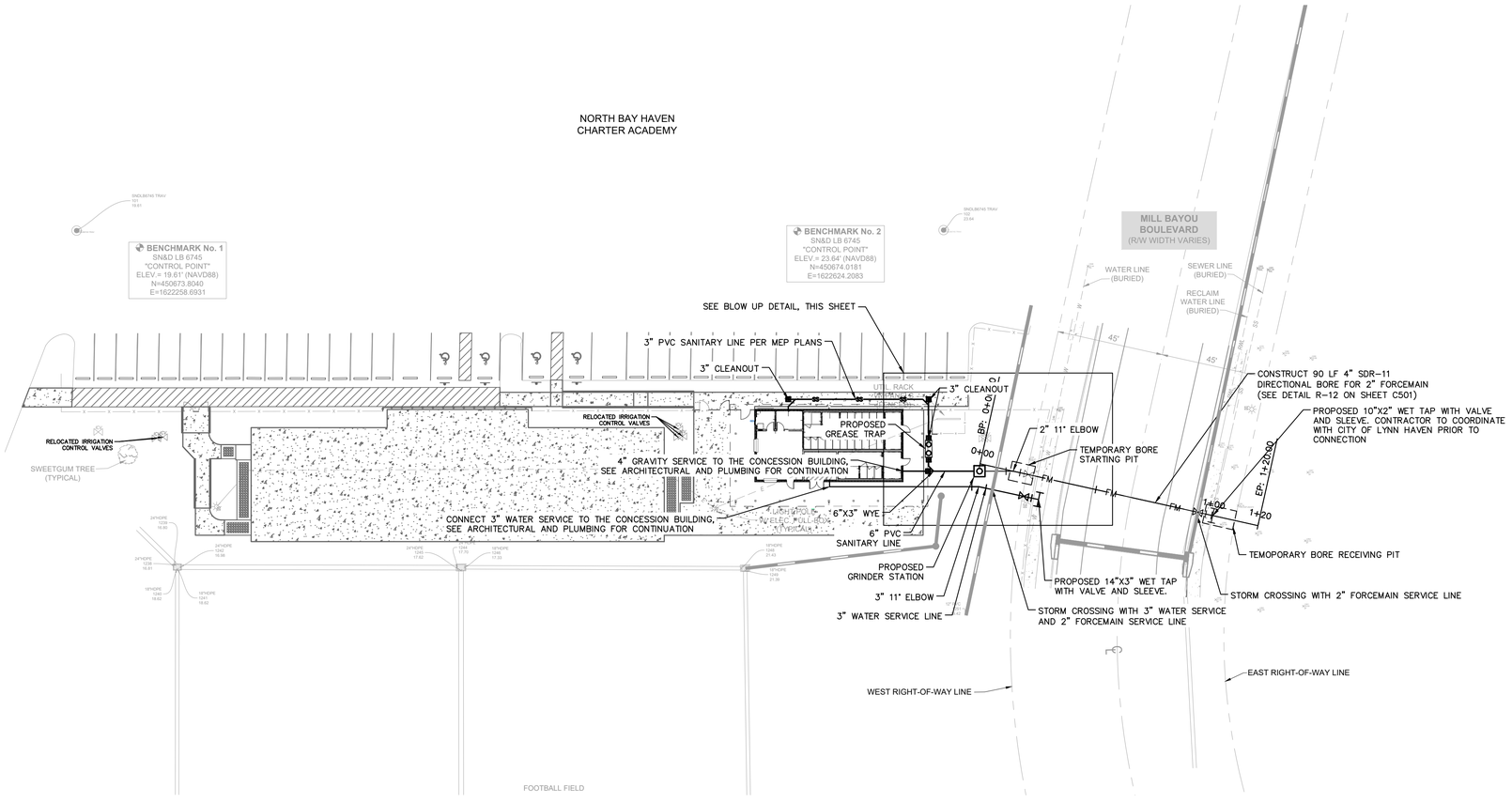


GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

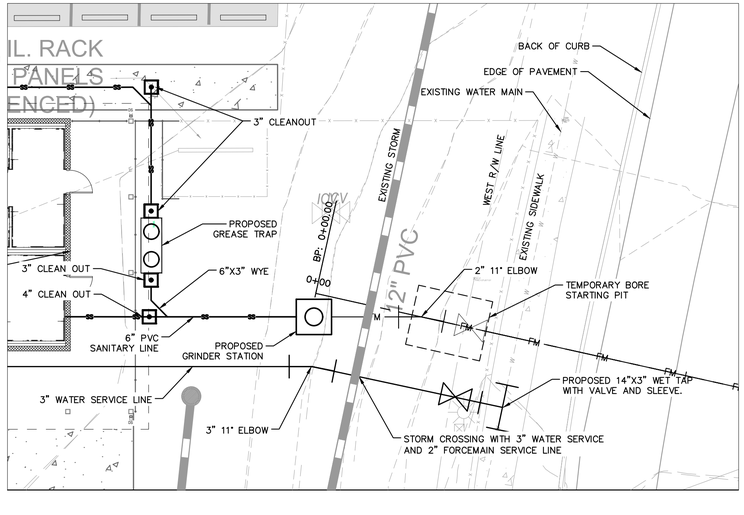
LEGEND

- EXISTING RIGHT OF WAY LINE
- SS — EXISTING SANITARY SEWER LINE
- W — EXISTING WATER MAIN
- EXISTING STORM PIPE
- SS SS — PROPOSED SANITARY SEWER LINE
- PROPOSED FORCEMAIN SERVICE
- PROPOSED WATER SERVICE
- PROPOSED FITTINGS
- PROPOSED TEE
- EXISTING VALVE
- PROPOSED VALVE

NOTES:

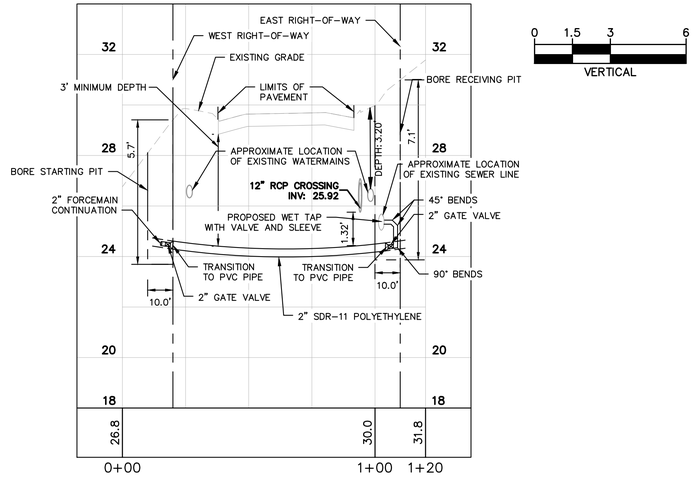
1. CONTRACTOR TO FIELD LOCATE AND VERIFY ALL UTILITIES AND THEIR DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.
2. SEE MEP PLANS FOR GREASE TRAP DETAIL
3. CONTRACTOR TO FIELD ADJUST IRRIGATION VALVES AND PIPING.
4. BORE AND RECEIVING PIT SHOWN HEREIN FOR REFERENCE. CONTRACTOR IS RESPONSIBLE FOR SIZE AND SHORING OF BORE PITS.

GRAPHIC SCALE IN FEET
0 5 10 20



GRAPHIC SCALE IN FEET
0 15 30 60
HORIZONTAL

0 1.5 3 6
VERTICAL



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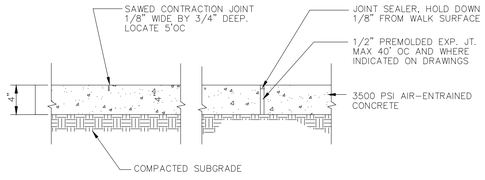
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25025
Dated	08.06.2025

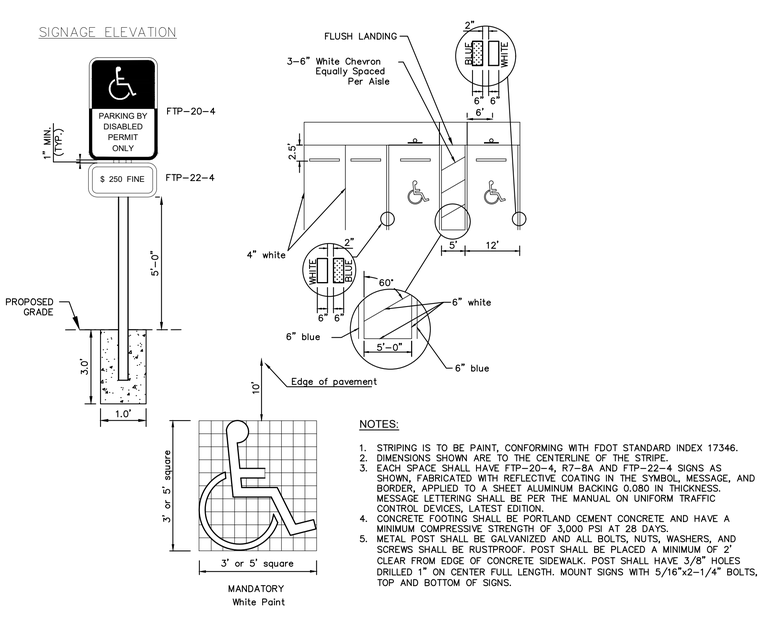
UTILITY PLAN

C400



CONCRETE SIDEWALK DETAIL
NOT TO SCALE

SIGNAGE ELEVATION

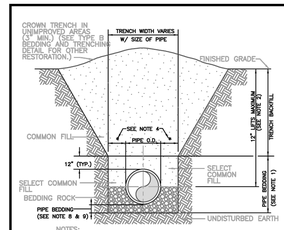


MANDATORY
White Paint

NOTES:

1. STRIPING IS TO BE PAINT, CONFORMING WITH FDOT STANDARD INDEX 17346.
2. DIMENSIONS SHOWN ARE TO THE CENTERLINE OF THE STRIPE.
3. EACH SPACE SHALL HAVE FTP-20-4, R7-8A AND FTP-22-4 SIGNS AS SHOWN, FABRICATED WITH REFLECTIVE COATING IN THE SYMBOL, MESSAGE, AND BORDER, APPLIED TO A SHEET ALUMINUM BACKING 0.080 IN THICKNESS. MESSAGE LETTERING SHALL BE PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
4. CONCRETE FOOTING SHALL BE PORTLAND CEMENT CONCRETE AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
5. METAL POST SHALL BE GALVANIZED AND ALL BOLTS, NUTS, WASHERS, AND SCREWS SHALL BE RUSTPROOF. POST SHALL BE PLACED A MINIMUM OF 2' CLEAR FROM EDGE OF CONCRETE SIDEWALK. POST SHALL HAVE 3/8" HOLES DRILLED 1" ON CENTER FULL LENGTH. MOUNT SIGNS WITH 5/16"x2-1/4" BOLTS, TOP AND BOTTOM OF SIGNS.

ADA STRIPING AND SIGNAGE
NOT TO SCALE

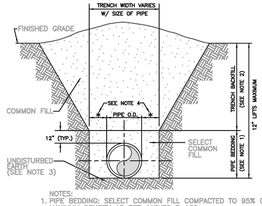


NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING, IF REQUIRED BY THE ENGINEER. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15", AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. THE ENGINEER SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

TYPE A BEDDING AND TRENCHING DETAIL
NOT TO SCALE

NOTE:
USE TYPE "A" BEDDING WHEN PIPING UNDER ROADWAY, PARKING LOT, STRUCTURE OR AS DIRECTED BY CITY.

NOTE:
USE TYPE "B" BEDDING WHEN PIPING NOT UNDER ROADWAY, PARKING LOT, STRUCTURE OR AS APPROVED BY CITY.



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2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.

TYPE B BEDDING AND TRENCHING DETAIL
NOT TO SCALE

REV	DATE	BY	REVISIONS
1	25 MAR 13	RGT/LHS	ADDED DETAIL

CITY OF LYNN HAVEN FL

TECHNICAL STANDARDS MANUAL

BEDDING AND TRENCHING
DETAILS
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE:	WATER
DWN BY:	REF
DATE:	30 APR 07
SHEET NO.	6 OF 27
DETAIL	W-6

Date: Jul 03, 2017, 11:07am User ID: Default UserFile: C:\Users\Default User\Jh-W7-2220\Desktop\Lynn Haven Details\2017-CMG-UPDATE IN PROCESS\2017-WATER.dwg

Plotted By:Hunter, Braden Sheet Set:NBH_Field Layout:Constr Details August 08, 2025 02:35:19pm K:\PCB_Civil\142792010-NBH_Field_Improvements\03_CADD\PlanSheets\C500 DETAILS.dwg

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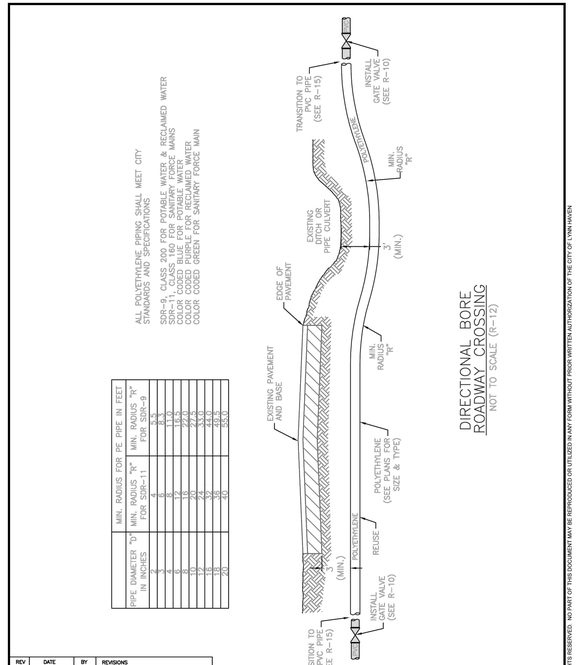
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25025
Dated	08.06.2025

CONSTRUCTION DETAILS

C500



DIRECTIONAL BORE
ROADWAY CROSSING
NOT TO SCALE (R-12)

REV	DATE	BY	REVISIONS
1	13 DEC 11	REF/LHS	REVISED DETAIL AND ADDED VALVE

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

DIRECTIONAL BORE
ROADWAY CROSSING
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: REUSE
DWN BY: REF
DATE: 30 APR 07
SHEET NO. 12 OF 18
DETAIL R-12

Date: Jul 03, 2017, 8:52am User ID: Default UserFile: C:\Users\Default User\JH-W7-2220\Desktop\Lynn Haven Details\2013-DWG\REUSE.dwg

FORCE MAIN

1.) PVC PIPE 4" TO 12" DIAMETER C900 SHALL BE ASTM DD2241, SDR-25.
2.) PVC PIPE GREATER THAN 12" SHALL BE AWWA C905 (DR25).
3.) FITTINGS AND VALVES 4" AND GREATER SHALL BE MECHANICAL JOINT DUCTILE IRON (250 PSI MIN.) WITH CEMENT LINING.
4.) ONE BOLT OR MEGALUG RESTRAINTS SHALL BE UTILIZED. (FOR INFORMATION ON ONE BOLT CALL 1(205)739-0010 OR OR GO TO **www.oneboltt.com**)
5.) ALL FORCE MAINS SHALL BE COLOR GREEN OR BROWN.
6.) ALL SANITARY FORCE MAINS SHALL BE HYDROSTATICALLY TESTED PER AWWA STANDARD C600 (LATEST EDITION) AT 100 PSIG (MINIMUM) FOR TWO HOURS.
7.) ALL FLUSHING REQUIREMENTS PER AWWA STANDARDS (3 fps MINIMUM., 2 X PIPE VOLUME MINIMUM.)
8.) FOR 2" FM AND BELOW SERVING PRIVATE LIFTSTATIONS USE HDPE SDR-11 TUBING FORCE MAIN AND APOLLO BRONZE 400 PSI THREADED BALL-CONE INLINE CHECK VALVE MODEL CVB WITH APOLLO BRONZE BALL VALVE 70-100-BC SERIES (OR APPROVED EQUAL). THIS ASSEMBLY SHOULD BE INSTALLED IN A STANDARD METER BOX AT PROPERTY LINE.
9.) DUCTILE IRON GRAVITY PIPE, DUCTILE IRON FORCEMAIN PIPE AND FITTINGS TO BE LINED WITH PROTECTO 401 CERAMIC EPOXY IN ACCORDANCE WITH ASTM A716/A746.

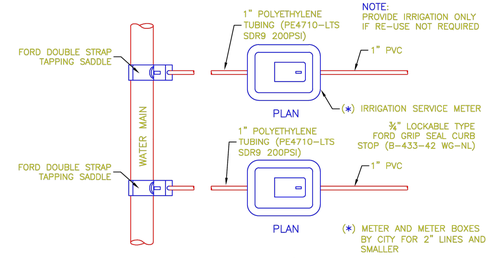
REV	DATE	BY	REVISIONS
3	29 MAY 12	REF/LMS	REVISED PER ENGINEER
2	20 JAN 11	REF/LHS	REV. SHT. NO. TO ADD DIR. BORE DETAIL
2		REF/LMS	REVISED NOTES
1	21 DEC 10	REF/LHS	ADDED LINING NOTE TO No. 3

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

FORCE MAIN
NOTES
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: SEWER
DWN BY: REF
DATE: 30 APR 07
SHEET NO. 20 OF 20
DETAIL S-20

Date: Jul 03, 2017, 10:51am User ID: Default UserFile: C:\Users\Default User\JH-W7-2220\Desktop\Lynn Haven Details\2017-DWG-UPDATE IN PROCESS\2017-SEWER.dwg



WATER SERVICE DETAIL

NOTE:
1. ALL FITTINGS SHALL BE NO-LEAD BRASS.
2. ALL WATER METERS SHALL HAVE A DUAL CHECK VALVE.

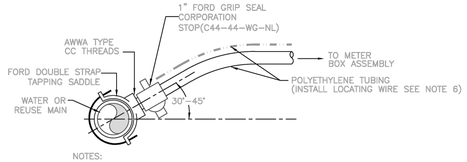
REV	DATE	BY	REVISIONS
4	14 MAR 17	SEP	REVISED DETAIL & NOTES
3	05 AUG 13	REF/LHS	REVISED PER CITY COMMENTS
2	25 MAR 13	REF/LHS	ADDED TEXT AT METER BOX
1	03 JUN 11	REF/LHS	REVISED DETAIL AND ADDED NOTES

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

WATER SERVICE
DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER
DWN BY: REF
DATE: 30 APR 07
SHEET NO. 3 OF 27
DETAIL W-3

Date: Jul 10, 2017, 9:59am User ID: Default UserFile: C:\Users\Default User\JH-W7-2220\Desktop\Lynn Haven Details\2017-DWG-UPDATE IN PROCESS\2017-WATER.dwg



NOTES:
1. ALL FITTINGS SHALL BE NO-LEAD BRASS JOINT.
2. ALL PE TUBING CONNECTION SHALL BE COMPRESSION / PACK JOINT TYPE WITH STAINLESS STEEL INSERTS.
3. ALL TUBING SHALL BE PE4710-CIS SDR9 200PSI.
4. ALL CURB STOPS SHALL BE LOCKABLE TYPE FORD GRIP SEAL (B-433-42 WG-NL).
5. ALL CORPORATION STOPS SHALL BE FORD GRIP SEAL C44-44-WG-NL).
6. PROVIDE #12AWG LOCATOR WIRE ALONG ENTIRE LENGTH OF TUBING.
7. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
8. EACH SERVICE SHALL TERMINATE AT A CURB STOP WHICH SHALL BE BURIED APPROXIMATELY 3" BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2" X 2" X 18" STAKE WITH THE TOP PAINTED BLUE AND MARKED WITH THE NUMBER OF THE LOT TO BE SERVED AND TYPE OF SERVICE PROVIDED, i.e., POTABLE WATER OR RECLAIMED WATER.

WATER SERVICE CONNECTION DETAIL

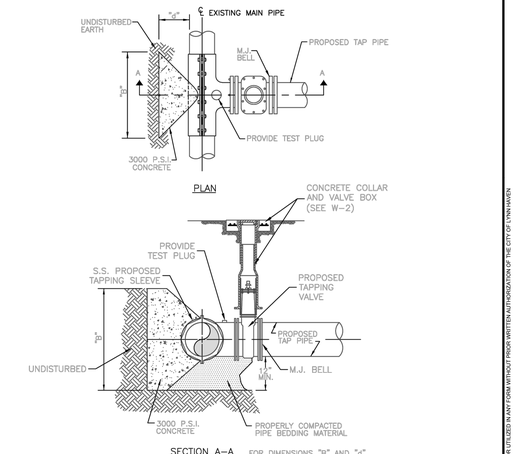
REV	DATE	BY	REVISIONS
2	14 MAR 17	SEP	REVISED DETAIL & NOTES
1	03 JUN 11	REF/LHS	REVISED DETAIL TEXT

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

WATER SERVICE
CONNECTION DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER
DWN BY: REF
DATE: 30 APR 07
SHEET NO. 4 OF 27
DETAIL W-4

Date: Jul 03, 2017, 11:06am User ID: Default UserFile: C:\Users\Default User\JH-W7-2220\Desktop\Lynn Haven Details\2017-DWG-UPDATE IN PROCESS\2017-WATER.dwg



FOR DIMENSIONS "B" AND "d" SEE THRUST BLOCK DETAILS

NOTES:

1.) NO CUTS SHALL BE MADE BEFORE:
(A) A TEST OF 180 OR 200 P.S.I. FOR 60 MINUTES IS MADE.
(B) ALL FITTINGS TO BE WRAPPED WITH 20 MIL VISQUEEN AT THRUST BLOCK
(C) ALL TAPS TO BE MADE BY THE CONTRACTOR AND MATERIAL TO BE FURNISHED BY THE CONTRACTOR

2.) ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS LARGER) FROM A JOINT OR FITTING.

TAPPING SLEEVE & VALVE BLOCKING DETAIL
NOT TO SCALE (W-10)

REV	DATE	BY	REVISIONS
1	03 JUN 11	REF	REVISED DETAIL TEXT

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

TAPPING SLEEVE AND
VALVE BLOCKING DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER
DWN BY: REF
DATE: 30 APR 07
SHEET NO. 10 OF 27
DETAIL W-10

Date: Jul 05, 2017, 11:06am User ID: Default UserFile: C:\Users\Default User\JH-W7-2220\Desktop\Lynn Haven Details\2017-DWG-UPDATE IN PROCESS\2017-WATER.dwg

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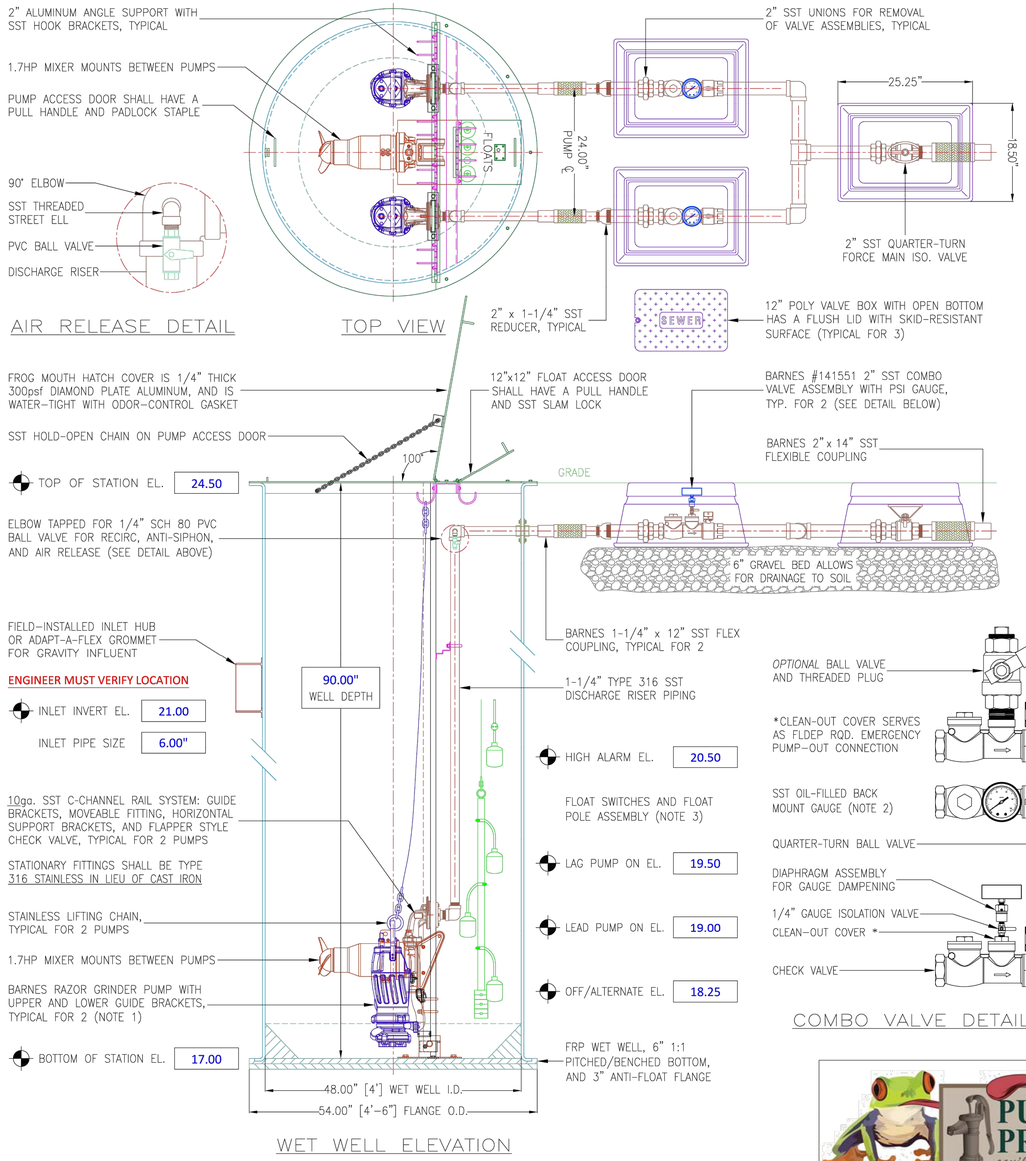
REVISIONS

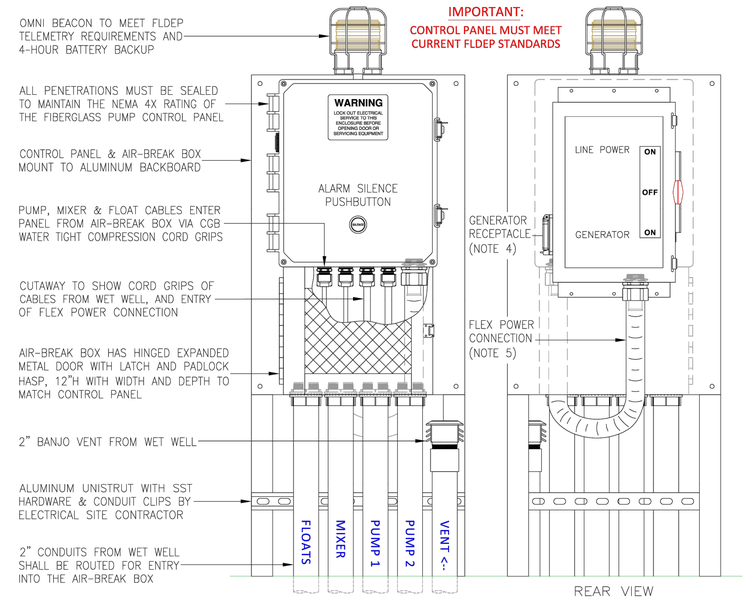
NO.	*DESCRIPTION*	*DATE*

Project Number	**25025**
Dated	08.06.2025

UTILITY DETAILS
C501

Plotted By:Hunter, Braden Sheet Set:NBH_Field Layout:Utility Details August 08, 2025 02:35:26pm K:\PCB_Civil\142792010-NBH_Field_Improvements\03_CADD\PlanSheets\C500 DETAILS.dwg





PUMP DATA TABLE					
MANUFACTURER	Barnes	VOLTAGE	208-240	RPM	3450
MODEL	ZOGP2082L	PHASE / Hz	3/60	GPM	29.00
HP	2	FLA	8.5-8.2	TDH	110.84'

NOTES:

1. THE PUMPS MUST HAVE A 5-YEAR 100% REPAIR PARTS & LABOR WARRANTY AS PROVIDED BY THE MANUFACTURER.
2. GAUGE SIZED TO READ NO MORE THAN 1-1/2 TIMES THE MAXIMUM PRESSURE PUMP PROVIDES AT DEAD HEAD.
3. FLOATS SHALL BE ANCHOR SCIENTIFIC MINI MERCURY SWITCHES. THE "OFF/ALTERNATE," "LEAD PUMP ON," AND "LAG PUMP ON" FLOATS SHALL BE CLAMPED TO A WEIGHTED SST FLOAT POLE. POLE SHALL HAVE A WELDED EYE AND LIFTING CHAIN THAT IS LONG ENOUGH TO POSITION THE FLOATS AT THE REQUIRED DEPTH. THE "HIGH LEVEL ALARM" FLOAT WITH EXTERNAL WEIGHT SHALL BE SUSPENDED SEPARATELY.
4. IF WHOLE-BUILDING GEN-SET IS NOT PROVIDED, THE ON-SITE ELECTRICAL CONTRACTOR SHALL INSTALL A 3-WAY SAFETY DISCONNECT SWITCH WITH HUBBELL GENERATOR RECEPTACLE. THE SWITCH AND GENERATOR RECEPTACLE SHALL BE PROVIDED BY OTHERS UNLESS NOTED IN PPEI SCOPE OF SUPPLY. THE SWITCH SHALL BE SUITABLE FOR USE AS SERVICE EQUIPMENT, AND SHALL HAVE A DOUBLE-THROW CONFIGURATION FOR LOAD TRANSFER.
5. ON-SITE ELECTRICAL CONTRACTOR SHALL PROVIDE FLEX CONDUIT AND POWER WIRE SIZED PER LOAD REQUIREMENTS. FLEX CONDUIT SHALL PASS THROUGH THE AIR-BREAK BOX, AND HAVE LIQUID-TIGHT CONNECTORS AT THE DISCONNECT SWITCH AND AT THE CONTROL PANEL. REGULAR CONDUIT FITTINGS ARE NOT WEATHER-PROOF AND ARE NOT ACCEPTABLE.
6. C-CHANNEL SHALL BE 10ga. IN LIEU OF STANDARD 14 GAUGE. STATIONARY FITTINGS SHALL BE SST IN LIEU OF CAST IRON.
7. ALL HARDWARE MOUNTED INSIDE THE WET WELL SHALL BE TYPE 316 STAINLESS STEEL.
8. IMPORTANT: COMBO VALVE CLEAN-OUT COVERS SERVE AS FLDEP REQUIRED EMERGENCY PUMP-OUT CONNECTIONS.

NOT FOR CONSTRUCTION

Butch Branton
Sales Engineer
Pump and Process Equipment, Inc.
370 West Burgess Road, Pensacola, FL 32503
Office 850/432-0334 Cell 850/393-7686
butch@pumpandprocess.net
www.pumpandprocessequipmentinc.com

TITLE:	DUPLEX PUMP STATION 2HP STANDARD GRINDER PACKAGE 1-1/4" x 2" PIPING		
CREATED BY:	DS	APPROVED BY:	BB
SCALE:	NTS	REVISION:	3
DATE:	4/10/24	SHEET: 1 OF:	1

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REVISIONS

NO.	DESCRIPTION	DATE

Project Number 25025
Dated 08.06.2025

GRINDER STATION DETAILS
C502

Plotted By: Hunter, Braden Sheet Set: NBH_Field Layout: GRINDER August 08, 2025 02:35:29pm K:\PCB_Civil\142792010-NBH_Field_Improvements\03_CADD\PlanSheets\C500 DETAILS.dwg

STRUCTURAL GENERAL NOTES

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECTURAL or ARCHITECT
B/	BOTTOM OF
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOS	BOTTOM OF STEEL
BRG	BEARING
B/S	BOTTOM SIDE
BTM or (B)	BOTTOM, "BOT" SIM
BTW	BETWEEN
CB	CARRIAGE BOLT
CFS	COLD FORMED STEEL
CIP	CAST IN PLACE
C.J.	CONTROL JOINT
CL or (℄)	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CASED OPENING
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE or CONTINUOUS
CSJ	CONSTRUCTION JOINT
CTR	CENTERED, "CNTR'd" SIM
DET	DETAIL
DBL	DOUBLE
DIA or (∅)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
D.L.	DEAD LOAD
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EA	EACH
E.E.	EACH END
E.F.	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EMBED	EMBEDDED or EMBEDMENT
EOS	EDGE OF SLAB
E.G.	EXISTING GRADE
E.S.	EACH SIDE
EQ	EQUAL
E.W.	EACH WAY
EX	EXISTING
EXPB	EXPANSION BOLT
EXT	EXTERIOR
F.F.	FAR FACE
FFE	FINISHED FLOOR ELEVATION
F.G.	FINISHED GRADE
FIN	FINISH
FL	FLOOR
FLG	FLANGE
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FULL PENETRATION
F/S	FAR SIDE
FT	FOOT OR FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GDR	GIRDER
GP	GUSSET PLATE
HAS	HEADED ANCHOR STUD
HD	HOLDOWN
HDG	HOT DIP GALVANIZED
HDR	HEADER
HK	HOOK
HORZ	HORIZONTAL
HSB	HIGH STRENGTH BOLT
H.S.S.	HEADED SHEAR or "NELSON" STUD
HSS	HOLLOW STL SECTION or TUBE
I.F.	INSIDE FACE
IN	INCH OR INCHES
INT.	INTERIOR
INV	INVERT
JST	JOIST
JT	JOINT
K	KIP (1,000 POUNDS)
LB	POUNDS
L.E.	LEFT END
L.L.	LIVE LOAD
LLD	LONG LEG DOWN
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LVL	LAMINATED VENEER LUMBER
LWC	LIGHT WEIGHT CONCRETE
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MFGR	MANUFACTURER
MID or (M)	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
M.R.D.	METAL ROOF DECK
MTL	METAL
MTRL	MATERIAL
N.F.	NEAR FACE
NOM	NOMINAL
NO.	NUMBER OR #
N/S	NEAR SIDE
NS	NON-SHRINK
N.T.S.	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
O.C.	ON CENTER, "C.C." SIM
O.D.	OVERALL DIM. "O/O" SIM
O.F.	OUTSIDE FACE
OPP	OPPOSITE
OVS	OVERSIZED
PCC	PRECAST CONCRETE
PEN	PENETRATION
PERP	PERPENDICULAR
P.L.	POINT LOAD
PL	PLATE
PSL	PARALLEL STRAND LUMBER
PT	POINT
P.T.	PRESSURE TREATED or POST-TENSION
P.U.	RIGHT END
REINF	REINFORCING
REF	REFERENCE
RET	RETURN
REQ	REQUIRED
R.L.L.	ROOF LIVE LOAD
R.O.	ROUGH OPENING
SC	SLIP CRITICAL
SCHED	SCHEDULE
S.D.N.	STRUCTURAL DESIGN NOTES
SIM	SIMILAR
SOG	SLAB ON GRADE
S.E.	STUD PACK
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL, "S.S." SIM
STAG	STAGGERED
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&S	TEMPERATURE & SHRINKAGE REINF.
T/	TOP OF
T/S	TOP SIDE
T.	"T&S" FOR REINF, ELSE TEMPORARY
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE, "U.N.O." SIM
VERT	VERTICAL
W/	WITH
WWM	WELDED WIRE MESH

1. GENERAL NOTES:

1.1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT WEIGHTS AND LOCATIONS, EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

1.2. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

1.3. NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE ENGINEER OF RECORD FOR REVIEW OF ANY SUCH DEVIATIONS.

1.4. DO NOT SCALE DRAWINGS.

1.5. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, AND TIEDOWNS.

1.6. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.

1.7. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.

1.8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

1.9. THE REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHOD, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

1.10. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF ATLAS ENGINEERING AND CONSULTING, LLC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.

1.11. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFE SPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

1.12. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED STEEL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

1.13. ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE 8TH EDITION (2023). REFERENCE TO OTHER CODES OR STANDARD SPECIFICATIONS REFER TO THE LATEST EDITION OF SUCH CODES OR SPECIFICATIONS, UNLESS STATED OTHERWISE.

1.14. NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION EXCEPT AS SHOWN ON CONTRACT DOCUMENTS.

1.15. FINISH FLOOR ELEVATION (FIRST FLOOR) OF 0"-0" IS USED AS A REFERENCE ELEVATION. SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.

1.16. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS IS PROHIBITED UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM ENGINEER OF RECORD.

1.17. IN THE EVENT THAT THE STRUCTURAL CONTRACTS DRAWINGS AND SPECIFICATIONS CONFLICT ON INFORMATION, THE STRUCTURAL CONTRACT DRAWINGS SHALL SUPERSEDE THE SPECIFICATIONS.

2. CODE DESIGN:

2.1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE.

2.2. GRAVITY LOADS

2.2.1. UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

ATTICS W/O STORAGE	10 PSF
ATTICS W/ STORAGE	20 PSF
ROOMS (OTHER THAN SLEEPING)	40 PSF

2.2.2. UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

ROOF	20PSF

PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN DESIGN.

2.3. WIND LOADS (ASCE 7-22):

BASIC WIND SPEED = 149 MPH (INTERPOLATED VALUE)
STRUCTURAL RISK CATEGORY = II
WIND EXPOSURE CATEGORY = B
ENCLOSURE CLASSIFICATION = ENCLOSED
INTERNAL PRESSURE COEFFICIENT = 0.18 +/-

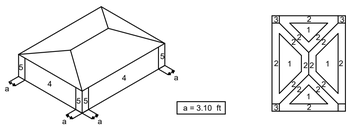
COMPONENTS AND CLADDING (PER ASD)

ROOF: (LOADING IN PSF)

TRIBUTARY AREA (SQFT)	ZONE 1 (INTERIOR) (+)	ZONE 1 (INTERIOR) (-)	ZONE 2 (EDGE) (+)	ZONE 2 (EDGE) (-)	ZONE 3 (CORNER) (+)	ZONE 3 (CORNER) (-)
10	20.30	-45.68	20.30	-59.52	20.30	-64.13
20	17.52	-40.34	17.52	-53.65	17.52	-57.73
100	11.07	-27.95	11.07	-40.02	11.07	-42.86

WALLS: (LOADING IN PSF)

TRIBUTARY AREA (SQFT)	ZONE 4 (INTERIOR) (+)	ZONE 4 (INTERIOR) (-)	ZONE 5 (EDGE/CORNER) (+)	ZONE 5 (EDGE/CORNER) (-)	OVERHANG
10	27.22	-29.53	27.22	-36.45	ZONE 2 (+) 9.60 (-) XX.XX
20	26.00	-28.30	26.00	-34.00	ZONE 3 (+) 9.60 (-) XX.XX
100	23.15	-25.46	23.15	-28.30	



2.4. FLOOD DESIGN DATA:

FLOOD ZONE = X
BFE = N/A
PANEL NO = 12131C0539H

2.5. ROOF RAIN LOAD DESIGN DATA:

RAIN LOAD = 5 PSF
RAIN INTENSITY (*i*) = 4.5 IN/HR

3. FOUNDATIONS:

3.1. THE FOUNDATIONS ARE DESIGNED FOR AN ANTICIPATED ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF ON COMPACTED FILL IF GEOTECHNICAL INVESTIGATION HAS NOT BEEN CONDUCTED.

3.2. REGARDLESS OF WHETHER OR NOT A GEOTECHNICAL INVESTIGATION IS PERFORMED, NO WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY ATLAS ENGINEERING AND CONSULTING, LLC FOR THE PERFORMANCE OF THE FOUNDATION.

3.3. AT A MINIMUM, SITE PREPARATION WORK SHALL INCLUDE:

3.3.1. STRIPPING AND GRUBBING OF THE BUILDING FOOTPRINT PLUS A MARGIN OF 5 FEET AROUND THE BUILDING, REMOVING ALL ORGANIC MATERIALS.
3.3.2. PROOF ROLLING THE BUILDING SITE TO LOCATE ANY UNFORESEEN SOFT AREAS. ANY SOFT AREAS SHALL BE\ EXCAVATED AND REPLACED WITH CLEAN FILL. A DENSITY OF AT LEAST 95% FOR A DEPTH OF 2 FEET IS REQUIRED UNDER THE BUILDING FOOTPRINT.
3.3.3. ALL FILL SHALL BE CLEAN SAND AND FREE OF ORGANIC MATERIALS. COMPACT FILL IN 12 INCH (UNCOMPACTED THICKNESS) LIFTS TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE.
3.3.4. EXCAVATIONS FOR FOUNDATIONS SHALL BE COMPACTED TO 95% FOR A DEPTH OF AT LEAST 2 FEET BELOW THE BOTTOM OF THE FOUNDATION.
3.3.5. DEWATERING MAY BE REQUIRED TO ACHIEVE THE REQUIRED COMPACTION VALUES, AND IF USED, SHOULD DRAW DOWN THE WATER LEVEL TO AT LEAST 2 FEET BELOW THE BOTTOM OF THE EXCAVATION.

3.4. SLABS ON GRADE SHALL BE PLACED OVER A 15 MIL, CLASS "B" VAPOR RETARDER. VAPOR RETARDER SHALL BE LAPPED A MINIMUM OF 6", OR AS RECOMMENDED BY THE MANUFACTURER (WHICHEVER IS GREATER) AND TAPED AT ALL JOINTS. ALL PUNCTURES IN THE VAPOR RETARDER SHALL BE REPAIRED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL PENETRATIONS THROUGH THE VAPOR RETARDER (COLUMNS, PLUMBING, CONDUITS, ETC) SHALL BE SEALED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. VAPOR RETARDER SHALL BE CONTINUOUS UNDER WALL FOUNDATIONS OR SEALED TO EXTERIOR WALLS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

4. CONCRETE:

4.1. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.

4.2. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:

4.2.1.	FOUNDATIONS & SLAB-ON-GRADE	3,000 PSI
4.2.2.	STRUCTURAL SLABS	4,000 PSI
4.2.3.	CIP BEAMS, COLUMNS & WALLS	4,000 PSI
4.2.4.	EXTERIOR RETAINING WALLS	4,000 PSI

4.3. SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE.

4.4. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.

4.5. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.

4.6. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.

4.7. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

4.8. CONDUITS, PIPES AND SLEEVES SHALL BE PLACED AND SPACED IN ACCORDANCE WITH ACI 318, 20.6.

4.9. CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER 26.4.4 OF ACI 318.

4.10. CONCRETE SLABS ON GRADE SHALL BE REINFORCED WITH 6x6 W1.4xW1.4 STEEL MESH OR SYNTHETIC FIBERS AT A MINIMUM RATE OF 3.0 LBS/CY, OR AS RECOMMENDED BY THE FIBER MANUFACTURER FOR CONTROL OF TEMPERATURE AND SHRINKAGE/CRACKING, WHICHEVER IS GREATER. UNLESS NOTED OTHERWISE.

4.11. WHEN WATER-BASED ADHESIVE ARE BEING USED ON CONCRETE SURFACES, THE CONTRACTOR SHALL VERIFY THAT THE WATER CONTENT OF THE CONCRETE IS WITHIN THE ALLOWABLE RANGE BEFORE INSTALLATION.

4.12. CHAMFER OR ROUND ALL EXPOSED CORNERS A MINIMUM OF 3/4".

5. REINFORCING STEEL

5.1. SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.

MINIMUM LAP SPLICE LENGTH (IN.) - 3000 PSI CONCRETE

	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
FOOTINGS (HORIZ.)	21	23	29	37	50	-
VERT. DOWELS	22	29	36	43	63	72

MINIMUM LAP SPLICE LENGTH (IN.) - 4000 PSI CONCRETE

	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
BEAMS/SLABS	-	-	-	-	-	-
- TOP BARS	22	29	36	43	63	72
- OTHER	21	21	26	31	39	51
COLUMNS	16	18	19	22	37	45
C.I.P. WALLS	-	-	-	-	-	-
- VERT. (1 MAT)	21	21	22	25	39	51
- VERT. (2 MATS)	16	18	19	22	34	43
- HORIZONTAL	16	19	27	37	60	74

MINIMUM LAP SPLICE LENGTH (IN.) - 1500 PSI NORMAL WEIGHT CMU

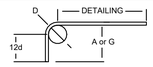
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
6-in CMU WALL	19	25	39	81	-	-
8-in CMU WALL	19	25	31	57	79	113
12-in CMU WALL	19	25	31	53	61	75

RECOMMENED END HOOKS ANCHORAGE LENGTH (IN.) - 3000 PSI CONCRETE

	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
D	2.25	3.00	3.75	4.50	5.25	6.00
A or G	6	8	10	12	14	16

RECOMMENED END HOOKS ANCHORAGE LENGTH (IN.) - 4000 PSI CONCRETE

	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
D	2.25	3.00	3.75	4.50	5.25	6.00
A or G	7	10	12	15	17	19



5.2. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE CLEAR COVER UNO (PER ACI 318-05 PAR.7.7.1)

5.2.1.	CONCRETE CAST AGAINST EARTH:	3"	
5.2.2.	FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:	2"	(#6 BARS & LARGER)
		1-1/2"	(#5 BARS & SMALLER)
5.2.3.	CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	3/4"	(SLABS)
		1"	(WALLS)
		1-1/2"	(STIRRUPS & TIES)

5.3. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.

5.4. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS.

5.5. WHERE REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORTS AND TOP BARS AT CENTER OF SPAN. ALL OTHER LAP SPLICES SHALL BE IN ACCORDANCE WITH SPLICE TABLES AND DETAILS SHOWN ON DRAWINGS.

5.6. PROVIDE DOWELS INTO FOOTINGS, PILE CAPS, SUPPORT BEAMS, ETC. TO MATCH VERTICAL BARS WITH CLASS B TENSION LAP SPLICES, U.N.O.

5.7. WHERE HOOKS ARE SHOWN ON THE PLANS OR DETAILS, HOOKS SHALL BE DETAILED TO EXTEND DEEP ENOUGH INTO SUPPORTING STRUCTURE TO DEVELOP THE FULL STRENGTH OF THE HOOKED BAR. PROVIDE ADDITIONAL TIES OR STIRRUPS IN SUPPORTING STRUCTURE AS REQUIRED TO SATISFY ACI 318 HOOK DEVELOPMENT, CONFINEMENT, AND ANCHORAGE CRITERIA.

5.8. ALL REINFORCEMENT SHALL BE BENT COLD, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL EOR.

5.9. SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL IN MAT SLABS, CAST-IN-PLACE WALLS, AND STRUCTURAL SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

5.10. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS FOR REINFORCED CONCRETE, "ACI 318" AND THE "MANUALS OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315 (LATEST EDITION).

5.11. ALL REINFORCING STEEL AND EMBEDMENTS SHALL BE SECURELY TIED AND SUFFICIENTLY SUPPORTED TO MAINTAIN THE POSITION WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "WET STICKING" DOWELS INTO CONCRETE IS NOT PERMITTED.

5.12. CONTINUOUS REINFORCEMENT SHALL BE PROVIDED WHEREVER POSSIBLE. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. STAGGER SPLICES WHERE POSSIBLE; USE FULL TENSION SPLICE (CLASS "B") UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH FULL TENSION SPLICES (CLASS "B") UNLESS NOTED OTHERWISE. TERMINATE BARS WITH STANDARD HOOKS.

5.13. REINFORCING STEEL SHALL NOT BE WELDED OR TACK WELDED UNLESS APPROVED BY THE STRUCTURAL EOR.

5.14. ALL STEEL REINFORCING USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB.

6. WELDED WIRE FABRIC:

6.1. SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.

6.2. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES.

6.3. ALL WELD WIRE MESH USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB.

7. WOOD:

7.1. STRUCTURAL GLUED LAMINATED TIMBER SHALL BE PRODUCED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC). MINIMUM ALLOWABLE BENDING STRESS SHALL BE 2,400 PSI (DRY CONDITIONS).

7.2. PROVIDE DRESSED SEASONED LUMBER, S4S, WITH A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF DRESSING AS LISTED BELOW.

7.2.1. INTERIOR AND EXTERIOR LOAD-BEARING WALLS:
SOUTHERN PINE, NO. 2 GRADE.

7.2.2. LINTELS, FLOOR JOISTS AND BEAMS:
SOUTHERN PINE, NO. 2 GRADE.

7.2.3. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE PRESSURE-TREATED. USE GALVANIZED NAILS IN PRESSURE-TREATED WOOD. THE PROTECTIVE COATING ON LIGHT GAUGE STEEL CONNECTIONS IN CONTACT W/ PRESSURE-TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURERS RECOMMENDATIONS.

7.3. ENGINEERED LUMBER PRODUCTS

7.3.1. PARALLEL STRAND LUMBER (PSL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS	F/B = 2900 PSI
COMPRESSION PERPENDICULAR TO GRAIN	$F/C\perp$ = 750 PSI
COMPRESSION PARALLEL TO GRAIN	$F/C\|\|$ = 2900 PSI
HORIZONTAL SHEAR	F/V = 290 PSI
MODULUS OF ELASTICITY	E = 2,000,000 PSI

7.3.2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS	F/B = 2600 PSI
COMPRESSION PERPENDICULAR TO GRAIN	$F/C\perp$ = 750 PSI
COMPRESSION PARALLEL TO GRAIN	$F/C\|\|$ = 2510 PSI
HORIZONTAL SHEAR	F/V = 285 PSI
MODULUS OF ELASTICITY	E = 2,000,000 PSI

7.3.3. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS	F/B = 1700 PSI
COMPRESSION PERPENDICULAR TO GRAIN	$F/C\perp$ = 710 PSI
COMPRESSION PARALLEL TO GRAIN	$F/C\|\|$ = 1835 PSI
HORIZONTAL SHEAR	F/V = 425 PSI
MODULUS OF ELASTICITY	E = 1,300,000 PSI

7.3.4. GLULAM BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS	F/B = 3000 PSI
COMPRESSION PERPENDICULAR TO GRAIN	$F/C\perp$ = 805 PSI
TENSION PARALLEL TO GRAIN	$F/T\|\|$ = 1350 PSI
HORIZONTAL SHEAR	F/V = 300 PSI
MODULUS OF ELASTICITY	E = 2,100,000 PSI

7.3.5. PRESERVED GLULAM BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS	F/B = 2400 PSI
COMPRESSION PERPENDICULAR TO GRAIN	$F/C\perp$ = 740 PSI
HORIZONTAL SHEAR	F/V = 300 PSI
MODULUS OF ELASTICITY	E = 1,800,000 PS

7.4. STRUCTURAL PANELS

7.4.1. FLOOR PANELS SHALL BE CONSTRUCTED WITH TONGUE AND GROOVE APA RATED, EXPOSURE 1, 23/32" PLYWOOD. FLOOR PANELS SHALL BE GLUED AND NAILED W/ 10d RING SHANK NAILS @ 4" O/C AT PANEL EDGES AND AT 6" O/C IN THE FIELD.

7.4.2. WALL PANELS SHALL BE CONSTRUCTED WITH APA RATED, EXPOSURE 1, 15/32" SHEATHING, SHEATHING SHALL BE ATTACHED WITH 10d COMMON NAILS @ 3" O/C AT PANEL EDGES AND 6" O/C IN THE FIELD. ALL PANEL EDGES SHALL BE BLOCKED.

7.4.3. ROOF PANELS SHALL BE CONSTRUCTED WITH APA RATED, EXPOSURE 1, 19/32" SHEATHING. SHEATHING SHALL BE ATTACHED WITH 10d RING SHANK NAILS @ 4" O/C AT PANEL EDGSES AND AT 6" O/C IN THE FIELD. ALL PANEL EDGES SHALL BE BLOCKED OR ATTACHED WITH SIMPSON PSCA PANEL SHEATHING CLIPS. NAIL HEADS SHALL NOT PENETRATE THE OUTER SURFACE OF SHEATHING.

7.5. FABRICATED WOOD TRUSSES

7.5.1. DESIGN OF WOOD TRUSSES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, AND SUPPORT REACTIONS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO TRUSS CONFIGURATION, AND THE CONTRACTOR'S INTERPRETATION OF DESIGN LOADS AND DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE TRUSSES OR TRUSS CONNECTIONS NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS.

7.5.2. ERECTION AND TEMPORARY BRACING OF PREFABRICATED WOOD TRUSSES SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE TRUSS MANUFACTURER AND THE TRUSS PLATE INSTITUTE'S "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS".
7.5.3. SECURE EACH COMMON ROOF TRUSS/RAFTER TO TOP PLATE WITH SIMPSON H-10 OR H-7 HURRICANE CLIP AT ALL BEARING POINTS. USE SIMPSON H-7 AT GIRDER TRUSSES. PROVIDE A MINIMUM OF TWO STUDS UNDER GIRDER TRUSS END BEARING.

7.5.4. TRUSSES ON SITE PRIOR TO INSTALLATION SHALL BE STORED IN A VERTICAL POSITION WITH SUPPORT POINTS PROVIDED AT FINAL BEARING POINTS AND BRACED TO AVOID TIPPING.

7.5.5. INSTALLATION OF ALL TRUSSES SHALL BE DONE USING A SPREADER BAR WITH A THREE POINT VERTICAL PICK AND CARE IS TO BE USED IN LIFTING TO MINIMIZE HORIZONTAL BENDING.

7.5.6. IMPROPER HANDLING OF THE TRUSSES AS NOTED ABOVE AND IN THE SPECIFICATIONS SHALL MEAN REMOVAL OF THE TRUSSES FROM THE JOB SITE.

7.5.7. DOUBLE TRUSSES SHALL BE NAILED TOGETHER W/ 10d @12" O.C. EACH SIDE, TOP AND BOTTOM CHORDS & WEBS.

7.5.8. TRUSS TO TRUSS CONNECTIONS SHALL BE VERIFIED BY THE TRUSS DESIGNER.

7.5.9. CONTRACTOR TO REFER TO "STANDARD FOR HURRICANE RESISTANT CONSTRUCTION SSTD 10-99 FOR FRAMING REQUIREMENTS OF WOOD FRAMED WALL SYSTEMS.

7.5.10. FLOOR TRUSS LOADS:

FLOOR TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS UNLESS A SPECIAL LOADING PATTERN IS PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD.

TOP CHORD LIVE LOAD	40 PSF
TOP CHORD DEAD LOAD	20 PSF
BOTTOM CHORD DEAD LOAD	10 PSF
TOTAL	70 PSF

7.5.11. ROOF TRUSS LOADS:

ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS UNLESS A SPECIAL LOADING PATTERN IS PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD.

TOP CHORD LIVE LOAD	20 PSF
TOP CHORD DEAD LOAD	20 PSF
BOTTOM CHORD DEAD LOAD	10 PSF
TOTAL	40 PSF

7.6. CONNECTIONS

7.6.1. CONNECTIONS FOR STRUCTURAL TIMBER SHALL BE GALVANIZED STRONG TIE CONNECTORS BY THE SIMPSON COMPANY OR APPROVED EQUAL. CONNECTORS SHALL FOLLOW MANUF. CORROSION PROTECTION RECOMMENDATIONS.

7.6.2. THE NUMBER OF FASTENERS PER CONNECTION SHALL BE THE MAX. ALLOWED FOR THAT PARTICULAR FASTENER.

8. TIE-DOWN NOTES:

8.1. ANCHOR TIE-DOWN RODS SHALL HAVE A MINIMUM SHAFT DIAMETER OF 1/2" (ONE HALF INCH) U.N.O.

8.2. TIE-DOWN RODS MAY BE CONNECTED DIRECTLY TO THE PLAN SPECIFIED 5/8" ANCHOR BOLTS USING A SIMPSON CNW5/8"-1/2" TRANSITION COUPLER NUT ABOVE THE REQUIRED BP3-5/8" AND 5/8" NUT ATOP THE SILL PLATE.

8.3. TIE-DOWN DIRECT CONNECTION MAY BE USED BY UTILIZING SIMPSON SET ANCHORAGE ADHESIVE WITH MINIMUM ROD EMBEDMENT OF 6" WHEREVER CAST-IN-PLACE ANCHOR BOLTS ARE SPECIFIED FOR COUPLED EXTENSION TO ABOVE.

8.4. ANY PLACE WHERE A TIE-DOWN LOCATION IS FILLED WITH STUDS; USE A SIMPSON LTTI31 OR HDU5 HOLDOWN CONNECTED AT THE TOP AND BOTTOM OF A MINIMUM 2PLY STUD PACK TO PRESERVE TENSION LOAD PATH TO FLOORS ABOVE AND/OR BELOW. RESUME INDICATED TIE-DOWN ROD PATH AT ENDS OF STUD PACK IF POSSIBLE.

8.5. SIMPSON LTTI31 & HDU5 HOLDOWNS SHALL BE ANCHORED INTO GROUT FILLED CMU WALLS OR PIERS WITH A SIMPSON SB5/8 OR SSTB ANCHOR BOLT WITH EMBEDMENT PER MFGR. RECOMMENDATION.

8.6. RODS SHALL INSTALLED PLUMB. THE MAXIMUM ALLOWABLE ROD DRIFT FROM PLUMB SHOULD NOT EXCEED 1.33 DEGREES OR MAXIMUM CENTERLINE OFFSET DISTANCE OF 1.75" PER FLOOR.

8.7. TIE-DOWN RODS SHALL HAVE A SIMPSON BP-3 WITH NUT ATOP THE TERMINAL TOP PLATE. RODS AT SLOPED OR RAKED PLATES SHALL REQUIRE HILLSIDE WASHERS BETWEEN BP-3 AND NUT TO LEVEL.

8.8. ALL RODS ARE TO BE TIGHTENED AT EACH FLOOR AND THE TOP PLATE CONNECTION AFTER ROOF IS FULLY LOADED, JUST PRIOR TO GYPSUM BOARD INSTALLATION. ALL RODS WITH BP AND NUT CONNECTIONS TO THE BOTTOM SIDE OF THE FIRST FLOOR FRAMING SHALL BE TIGHTENED AT THE END OF THE CONSTRUCTION PROCESS PRIOR TO C.O. OPTIONAL: CONTRACTOR MAY INSTALL A SIMPSON BPRTUD AND RTUD TAKE-UP DEVICE AT THE TERMINAL TOP PLATE CONNECTION TO REMOVED UNWANTED SYSTEM SLACK DUE TO STRUCTURE SETTLING OR CREEP.

No. 89388

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY CODY L. HARDEN, P.E., STATE OF FLORIDA 89388, ON THE DATE ADJACENT TO THE SEAL USING A SHA AUTHENTICATION CODE.

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REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25025
Dated	08.06.2025

STRUCTURAL
GENERAL NOTES

S001

STRUCTURAL GENERAL NOTES

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECTURAL or ARCHITECT
B/	BOTTOM OF
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOS	BOTTOM OF STEEL
BRG	BEARING
B/S	BOTTOM SIDE
BTM or (B)	BOTTOM, "BOT" SIM
BTW	BETWEEN
CB	CARRIAGE BOLT
CFS	COLD FORMED STEEL
CIP	CAST IN PLACE
C.J.	CONTROL JOINT
CL or (€)	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CASED OPENING
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE or CONTINUOUS
CSJ	CONSTRUCTION JOINT
CTR	CENTERED, "CNTR'd" SIM
DET	DETAIL
DBL	DOUBLE
DIA or (Ø)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
D.L.	DEAD LOAD
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EA	EACH
E.E.	EACH END
E.F.	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EMBED	EMBEDDED or EMBEDMENT
EOS	EDGE OF SLAB
E.G.	EXISTING GRADE
E.S.	EACH SIDE
EQ	EQUAL
E.W.	EACH WAY
EX	EXISTING
EXPB	EXPANSION BOLT
EXT	EXTERIOR
F.F.	FAR FACE
FFE	FINISHED FLOOR ELEVATION
F.G.	FINISHED GRADE
FIN	FINISH
FL	FLOOR
FLG	FLANGE
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FULL PENETRATION
F/S	FAR SIDE
FT	FOOT OR FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GDR	GIRDER
GP	GUSSET PLATE
HAS	HEADED ANCHOR STUD
HD	HOLDOWN
HDG	HOT DIP GALVANIZED
HDR	HEADER
HK	HOOK
HORZ	HORIZONTAL
HSB	HIGH STRENGTH BOLT
H.S.S.	HEADED SHEAR or "NELSON" STUD
HSS	HOLLOW STL SECTION or TUBE
I.F.	INSIDE FACE
IN	INCH OR INCHES
INT.	INTERIOR
INV	INVERT
JST	JOIST
JT	JOINT
K	KIP (1,000 POUNDS)
LB	POUNDS
L.E.	LEFT END
L.L.	LIVE LOAD
LLD	LONG LEG DOWN
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LVL	LAMINATED VENEER LUMBER
LWC	LIGHT WEIGHT CONCRETE
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MFGR	MANUFACTURER
MID or (M)	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
M.R.D.	METAL ROOF DECK
MTL	METAL
MTRL	MATERIAL
N.F.	NEAR FACE
NOM	NOMINAL
NO.	NUMBER OR #
N/S	NEAR SIDE
NS	NON-SHRINK
N.T.S.	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
O.C.	ON CENTER, "C.C." SIM
O.D.	OVERALL DIM. "O/O" SIM
O.F.	OUTSIDE FACE
OPP	OPPOSITE
OVS	OVERSIZED
PCC	PRECAST CONCRETE
PEN	PENETRATION
PERP	PERPENDICULAR
P.L.	POINT LOAD
PL	PLATE
PSL	PARALLEL STRAND LUMBER
PT	POINT
P.T.	PRESSURE TREATED or POST-TENSION
P.U.	RIGHT END
REINF	REINFORCING
REF	REFERENCE
RET	RETURN
REQ.	REQUIRED
R.L.L.	ROOF LIVE LOAD
R.O.	ROUGH OPENING
SC	SLIP CRITICAL
SCHED	SCHEDULE
S.D.N.	STRUCTURAL DESIGN NOTES
SIM	SIMILAR
SOG	SLAB ON GRADE
S.E.	STUD PACK
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL, "S.S." SIM
STAG	STAGGERED
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&S	TEMPERATURE & SHRINKAGE REINF.
T/	TOP OF
T/S	TOP SIDE
T	"T&S" FOR REINF, ELSE TEMPORARY
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE, "U.N.O." SIM
VERT	VERTICAL
W/	WITH
WWM	WELDED WIRE MESH

9. MASONRY WALLS:

9.1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530.1/ASCE 6/TMS 602 "SPECIFICATION FOR MASONRY STRUCTURES", LATEST EDITION.

9.2. MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH UNIT STRENGTH OF 1900 PSI ON THE NET AREA (f'm = 1500 PSI). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270.

9.3. GROUT SHALL BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476 AND HAVE A SLUMP BETWEEN 8" AND 11" WITH WATER CM RATIO OF 0.55 MAXIMUM AND WITH 3/8" MAXIMUM AGGREGATE.

9.4. PROVIDE HOOKED DOWELS IN FOUNDATIONS FOR VERTICAL REINFORCING ABOVE. REFER TO TABLE FOR SPLICE LENGTH.

9.5. BLOCK CELLS SHALL BE GROUT FILLED WITH VERTICAL REINFORCING BARS AT CORNERS, INTERSECTIONS, EACH SIDE OF OPENINGS AND AS SHOWN ON THE DRAWINGS.

9.6. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE AND/OR BELOW, UNLESS NOTED OTHERWISE.

9.7. USE METAL LATH, MORTAR OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO AREA AS REQUIRED.

9.8. MASONRY SHALL BE LAID IN RUNNING BOND PATTERN UNLESS NOTED OTHERWISE. AT FILLED CELLS LAY UNITS WITH FULL BED JOINTS AROUND CELLS.

9.9. PROVIDE 9 GAUGE GALVANIZED HORIZONTAL JOINT REINFORCING AT ALTERNATE BLOCK COURSES. LADDER TYPE IS RECOMMENDED WITH REINFORCED FILLED CELLS. PROVIDE PREFABRICATED "TEE" OR CORNER SECTIONS AT WALL INTERSECTIONS.

9.10. CONTROL JOINTS SHALL BE CONSTRUCTED IN CONCRETE MASONRY CONSTRUCTION AT A MAXIMUM HORIZONTAL SPACING BETWEEN JOINTS OF 25'-0" AND NOT MORE THAN 126" FROM CORNERS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. CONSTRUCT INTERIOR CONTROL JOINTS AT A MAXIMUM HORIZONTAL SPACING OF 32'-0" OR 16'-0" FROM CORNERS. NO JOINTS SHALL BE LOCATED WITHIN 2'-0" OF STEEL BEAM BEARINGS. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS.

9.11. SUBMIT PROPOSED GROUT MIX DESIGNS FOR REVIEW PRIOR TO USE. MIX NUMBER OR OTHER POSITIVE IDENTIFICATION SHALL UNIQUELY IDENTIFY MIX.

9.12. USE OF SUPERPLASTICIZER IS PROHIBITED.

9.13. CELLS TO BE GROUT FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL GROUT SPACE.

9.14. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE GROUT FILLED IN EACH POUR IN EXCESS OF 5 FEET IN HEIGHT. AFTER INSPECTION AND BEFORE GROUTING, THE REBAR SHALL BE TIED AT THE CLEANOUTS AND THE CLEANOUTS SHALL BE SEALED.

9.15. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS.

9.16. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS.

9.17. ALL CELLS SHALL BE FILLED SOLIDLY WITH GROUT (U.N.O). SAMPLE AND TEST GROUT PER ASTM C1019.

9.18. GROUT SHALL BE POURED IN LIFTS OF 4 FEET MAXIMUM HEIGHT. GROUT SHALL BE CONSOLIDATED AT TIME OF PLACING BY VIBRATING AND RECONSOLIDATED LATER BY VIBRATING BEFORE PLASTICITY IS LOST.

9.19. WHEN TOTAL GROUT POUR EXCEEDS 5 FEET IN HEIGHT, (HIGH LIFT GROUTING), THE GROUT SHALL BE PLACED IN 4-FOOT LIFTS WITH A MINIMUM OF A 30 MINUTE DELAY BETWEEN LIFTS. MINIMUM CELL DIMENSION SHALL BE IN ACCORDANCE WITH TABLE 5 OF ACI 530.1 (3" X 3" FOR COARSE GROUT, 12 FT. MAXIMUM POUR HEIGHT).

9.20. WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE BY STOPPING THE POUR OF GROUT NOT LESS THAN 1-1/2 INCH BELOW THE TOP OF THE UPPERMOST UNIT GROUTED.

9.21. MASONRY WALLS MARKED AS "LOAD BEARING" ARE DESIGNED TO CARRY FLOOR GRAVITY LOADS AND MUST BE CONSTRUCTED TO SUPPORT THE CONCRETE FLOOR SLAB CONCURRENTLY WITH CONCRETE COLUMN CONSTRUCTION.

9.22. MASONRY WALLS INDICATED AS "INFILL" ARE DESIGNED TO RESIST LATERAL LOADS AND MUST BE CONSTRUCTED AFTER THE CONCRETE SLAB IS CAST AND POST TENSIONING OPERATION IS COMPLETED. INFILL WALLS SHALL BE CONSTRUCTED STARTING AT THE FOUNDATION LEVEL AND WORKING UPWARD ONE LEVEL AT A TIME. DO NOT START NEXT HIGHER LEVEL OF WALL PRIOR TO COMPLETION OF WALL BELOW. ALLOW A MINIMUM OF 3 DAYS CURING FOR GROUT OF WALL BELOW PRIOR TO STARTING WALL ABOVE.

9.23. SINGLE STORY MASONRY WALLS INDICATED AS "PARTITION WALLS" SHALL BE CAST ON THICKENED SLAB FOUNDATIONS AND ARE NOT DESIGNED TO CARRY ANY LOADS FROM THE MAIN BUILDING STRUCTURES. ISOLATE TOP OF PARTITION WALLS FROM UNDERSIDE OF CONCRETE SLAB WITH A MINIMUM 1/2" THICK COMPRESSIBLE MATERIAL.

9.24. SUBMIT WRITTEN CONSTRUCTION SEQUENCES AND PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION.

10. CHEMICAL (ADHESIVE) ANCHORS:

10.1. SHALL BE A TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS HILTI HIT HY150, HILTI RE500, OR SIMPSON SET ADHESIVE SYSTEM, OR ENGINEER APPROVED SUBSTITUTION.

10.2. EPOXY TYPES AND BRANDS VARY IN THEIR BOND STRENGTH AND SUITABILITY OF USE, DEPENDING ON TYPE OF LOADING, ANCHOR SPACING, ETC. WHEN A PARTICULAR TYPE OF EPOXY IS SPECIFIED IN THESE DRAWINGS, A UNIQUE CALCULATION HAS BEEN MADE BASED ON THE PROPERTIES OF THAT SPECIFIC TYPE OF EPOXY FOR THE SPECIFIC CONDITION SHOWN IN THE DETAIL. SUBSTITUTION OF EPOXY TYPE IS NOT ALLOWED WHERE DETAIL SPECIFIES ONLY ONE TYPE OF EPOXY, WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD. NOT ALL EPOXY BRANDS OR TYPES WILL BE ALLOWED AS SUBSTITUTES.

10.3. SUBSTITUTION OF EPOXIES IN ONE CONDITION SHALL NOT BE CONSTRUED AS APPROVAL TO MAKE SIMILAR SUBSTITUTION OF EPOXIES IN OTHER DIFFERING CONDITIONS. EACH SUBSTITUTION MUST RECEIVE PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

10.4. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

10.5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS.

10.6. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL HOLE CLEAN-OUT REQUIREMENTS ARE FULLY COMPLETED BY THE INSTALLERS PRIOR TO INJECTING EPOXY INTO THE HOLES.

10.7. NO LOAD SHALL BE APPLIED TO THE EPOXY ANCHORS UNTIL THE EPOXY HAS FULLY CURED AND HAS ACHIEVED IT'S SPECIFIED STRENGTH.

10.8. IF DETAIL SHOWS EPOXY ANCHORS IN SLOTTED HOLES, IT IS IMPERATIVE THAT ANY EXCESS EPOXY IS CLEANED UP FROM AROUND THE ANCHOR ROD, SO THAT IT DOES NOT INTERFERE WITH ADJUSTABILITY OF ANCHOR ROD IN SLOTTED HOLE.

11. MECHANICAL ANCHORS:

11.1. SHALL BE EITHER HEAVY DUTY CONCRETE SCREW ANCHOR (SUCH AS POWERS WEDGE-BOLT, SIMPSON TITEN HD, OR HILTI HUS-H) OR WEDGE TYPE EXPANSION ANCHOR (SUCH AS POWERS POWER-STUD, SIMPSON WEDGE-ALL, OR HILTI KWIK BOLT 3).

11.2. TYPE OF ANCHOR SHALL BE AS SPECIFIED ON THE DRAWINGS, WHILE BRAND AND MODEL OF ANCHOR MAY BE SELECTED FROM THE ABOVE LISTED ANCHORS. SUBSTITUTION ANCHORS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE.

11.3. IN SOME CASES OF CRITICAL LOADING OR GEOMETRIC CONDITIONS, ONLY SPECIFIC ANCHORS WILL BE ALLOWED, AS NOTED ON THE DRAWINGS. IN THESE CASES, THE SPECIFIED BRAND AND MODEL OF ANCHOR MUST BE USED.

11.4. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

11.5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS.

11.6. MINIMUM EMBEDMENT DEPTH OF 1/4" TAPCONS INSTALLED IN CONCRETE SHALL BE 1.25" AND INSTALLED INTO MASONRY SHALL BE 1.5". SELECT ANCHOR LENGTH AS REQUIRED TO ACHIEVE THE SPECIFIED MINIMUM EMBEDMENT DEPTH.

11.7. TAPCON SCREWS MAY BE REPLACED W/ 0.157" SHANK DIAMETER PAF ANCHORS (HILTI X-U OR EQUAL) ON A 1:1 SUBSTITUTION BASIS. MINIMUM EMBEDMENT DEPTH SHALL BE 1.25" WHEN INSTALLED INTO CONCRETE OR GROUTED MASONRY. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS, MINIMUM EDGE DISTANCES, AND PLACEMENT LIMITATIONS (RELATIVE TO MORTAR JOINTS IN MASONRY).

12. STRUCTURAL STEEL:

12.1. STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSI/AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

12.2. MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED:

12.3.		
12.4.	WIDE FLANGE SHAPES	ASTM A992 (Fy=50 KSI)
12.5.	ANGLES, CHANNELS AND PLATES	ASTM A36 (Fy=36 KSI)
12.6.	RECTANGULAR HSS ASTM	A500, GRADE B (Fy=46 KSI)
12.7.	HIGH STRENGTH BOLTS	ASTM A325 OR A490
12.8.	THREADED RODS	ASTM A36 (Fy=36 KSI)
12.9.	HEAVY HEX NUTS	ASTM A563
12.10.	HARDENED STEEL WASHERS	ASTM F436
12.11.	ANCHOR RODS	ASTM F1554 GR. 36 (Fy=36 KSI)

12.12. CONNECTIONS:

12.12.1. BOLTS SHALL BE HIGH-STRENGTH, BEARING TYPE IN SNUG TIGHT CONDITION, U.N.O. TIGHTEN BY AN AISC APPROVED METHOD.

12.12.2. WELDING ELECTRODES SHALL BE PER AWS D1.1. RETURN FILLET WELDS FOR FRAMED CONNECTIONS 1/2" AT EACH END.

12.12.3. FIELD CONNECTIONS SHALL BE BOLTED, EXCEPT AS NOTED OTHERWISE.

12.12.4. DETAIL FLOOR AND ROOF FRAMING CONNECTIONS FOLLOWING THE REQUIREMENTS SHOWN IN THE TYPICAL CONNECTION SCHEDULES SHOWN IN THESE DRAWINGS, BASED ON THE BEAM OR GIRDER SIZE.

12.12.5. FOR THE PURPOSE OF CORRECTLY INTERPRETING THE CONNECTION SCHEDULES, GIRDERS SHALL BE CONSIDERED AS ANY FLOOR OR ROOF BEAM WHICH CARRIES OTHER FLOOR OR ROOF BEAMS, OR ANY FLOOR OR ROOF BEAM WHICH CARRIES STEEL COLUMNS.

12.12.6. DETAIL DIAGONAL BRACING CONNECTIONS AS SHOWN IN THE DETAILS. IF NO DETAIL IS PROVIDED, DETAIL CONNECTION TO DEVELOP THE FULL TENSION CAPACITY OF THE DIAGONAL BRACING MEMBER.

12.13. HIGH STRENGTH BOLTS IN BEARING CONDITION SUPPORTING SIMPLE SPAN BEAMS NOT SUBJECT TO AXIAL LOADS MAY BE INSTALLED TO "SNUG TIGHT" CONDITION IF NORMAL, OR SHORT SLOTTED HOLES ARE USED. THE ENGINEER OF RECORD WILL BE THE ULTIMATE AUTHORITY IN THE USE OF "SNUG TIGHT" BOLTS. IF LONG, SLOTTED OR OVERSIZED HOLES ARE USED, BOLTS MUST BE FULLY PRETENSIONED AND SLIP CRITICAL. PROPER SURFACE PREPARATION IS REQUIRED FOR SLIP CRITICAL BOLTS, INCLUDING OMISSION OF PRIMER OR FIRE PROOFING, AS APPROPRIATE.

12.14. BOLTS SHARING LOAD WITH WELDS IN A CONNECTION SHALL BE FULLY PRETENSIONED AND SLIP CRITICAL.

12.15. WHERE FULLY PRETENSIONED OR SLIP CRITICAL BOLTS ARE REQUIRED, TIGHTENING SHALL BE ACHIEVED USING EITHER TWIST-OFF TENSION CONTROL BOLTS OR DIRECT TENSION INDICATING WASHERS.

12.16. ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.

12.17. GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI IN 28 DAYS.

12.18. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD. WHEN NO CAMBER IS INDICATED, TURN THE MEMBER NATURAL CAMBER UP.

12.19. APPLY FIREPROOFING TO STEEL STRUCTURE CALCULATING THE THICKNESS OF FIREPROOFING BY COMPARING THE ACTUAL MEMBER SIZE TO THE MEMBER SIZE USED IN THE DESIGNATED UL RATING AND ADJUSTING APPROPRIATELY.

13. RAILINGS AND HANDRAILS:

13.1. ENGINEERED RAILING SYSTEM AND CONNECTION OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

13.2. THE CONFIGURATION OF THE RAILING SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

13.3. RAILING SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE DRAWINGS AND IN THE BUILDING CODE.

13.4. THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS AND SHALL COMPLY WITH ALL APPLICABLE CODES.

13.5. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE RAILING SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE DRAWINGS.

13.6. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

14. STRUCTURAL SUBMITTALS

14.1. SHOP DRAWINGS OR REPORTS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION (AS APPLICABLE) U.N.O.

14.1.1. PILE INSTALLATION QUALITY CONTROL
14.1.2. PILE INSTALLTION MONITORING LOG
14.1.3. CONCRETE ADMIXTURES
14.1.4. CONCRETE STRENGTH TESTS
14.1.5. CONCRETE DETAILING
14.1.6. ENGINEERED FILL COMPACTION TESTING
14.1.7. ENGINEERED ROOF AND FLOOR TRUSSES
14.1.8. STEEL JOISTS
14.1.9. STRUCTURAL STEEL
14.1.10. HANDRAILS AND STAIRS

DAG Architects
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NORTH BAY HAVEN CHARTER ACADEMY

BLEACHERS & CONCESSION BUILDING

1 BUCCANEER DRIVE, PANAMA CITY, FL 32404

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25025
Dated	08.06.2025

STRUCTURAL GENERAL NOTES

S002

FOUNDATION LEGEND
1/4" = 1'-0"

- - - - - - - DENOTES EDGE OF FOUNDATION ELEMENT BELOW

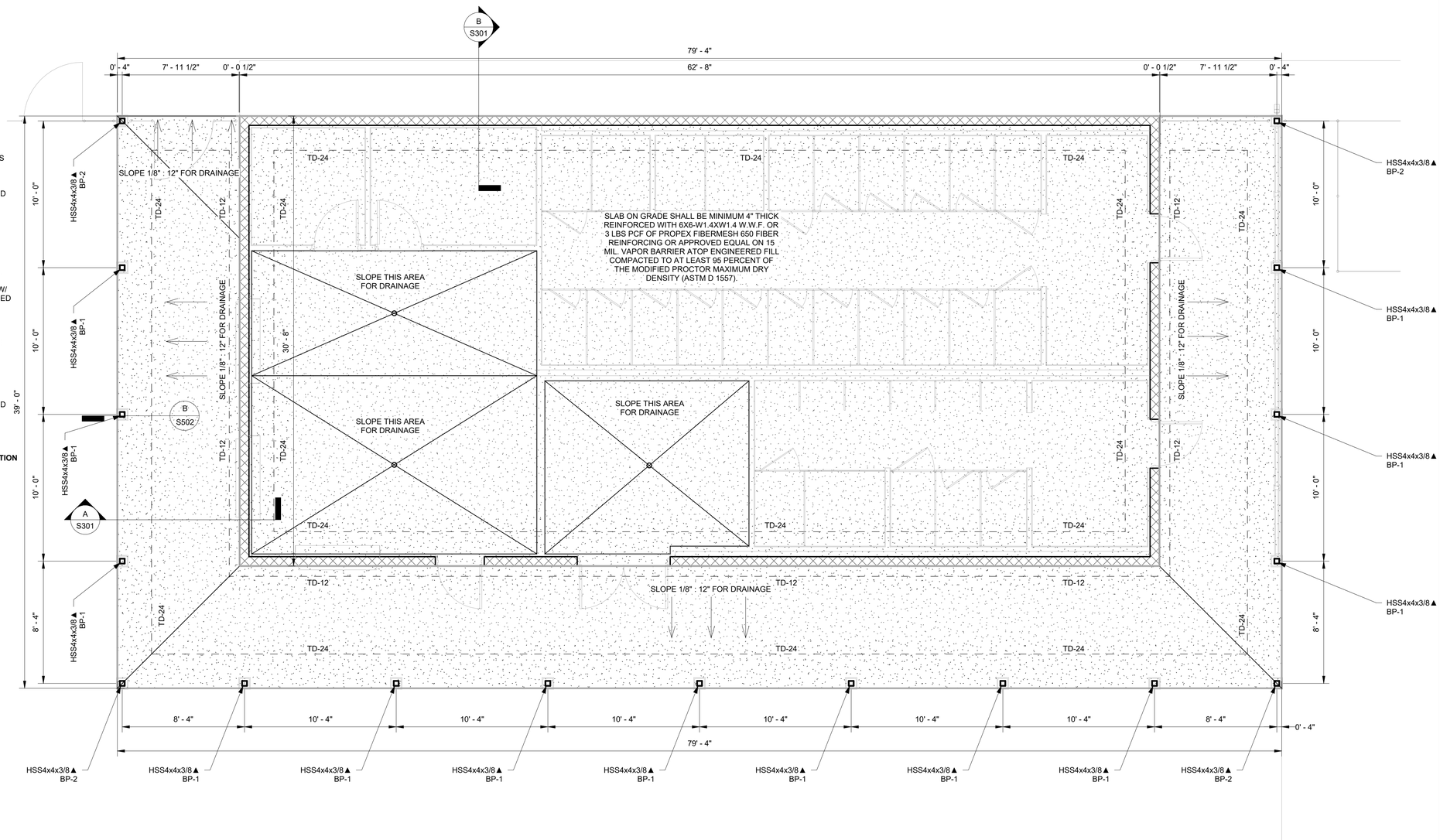
FOOTING SCHEDULE				
DESIGNATION	TYPE	DIMENSIONS	LONGITUDINAL REINF.	TRANS. REINF.
FTG-24	CONT. STRIP	12" D x 24" W	(3) #5 BARS	#5 BARS x 18" @ 18" O.C.
RF-12	RIBBON	14" D x 12" W	(2) #5 BARS T&B	#5 BARS x 6" @ 18" O.C.
TD-12	TURN DOWN	16" D x 12" W	(2) #5 BARS	#5 BARS x 6" @ 18" O.C.
TD-24	TURN DOWN	16" D x 24" W	(3) #5 BARS	#5 BARS x 18" @ 18" O.C.
TS-24	THICKENED SLAB	12" D x 24" W	(3) #5 BARS	#5 BARS x 18" @ 18" O.C.

FOOTING NOTES

1. TOPS OF ALL FOOTINGS (EXCEPT TURNDOWNS) MUST BE COVERED WITH A MINIMUM OF 12" OF FINISH GRADE MATERIAL, (U.N.O.).
2. BOTTOMS OF ALL FOOTINGS MUST BEAR ATOP UNDISTURBED SOIL OR ENGINEERED FILL COMPACTED TO 95% MAXIMUM MODIFIED PROCTOR A MINIMUM OF 12" BELOW EXISTING GRADE UNLESS PROPER PROVISIONS HAVE BEEN MADE FOR THE USE OF ENGINEERED FILL BASED ON A SITE SPECIFIC GEOTECHNICAL EVALUATION (BY OTHERS).
3. MINIMUM FOOTING WIDTHS MUST ALLOW FOR A MINIMUM 8" OFFSET FROM BOTH FACES OF CMU WALLS (TYP).
4. ALL CONTINUOUS FOOTINGS & PEDESTALS MUST BE CENTERED ON THE WALL/PIER UNLESS SPECIFICALLY NOTED AS ECCENTRIC FOOTING.
5. FOOTING SIZES, REINFORCING TYPE & SPACING LISTED WITHIN THE FOOTING SCHEDULE SHALL GOVERN OVER FOOTING NOTES.
6. VERTICAL DOWEL HOOKS SHOULD EXTEND 9" IN TO FTG'S, BELOW & RUNNING PERPENDICULAR TO FLEXURAL REINF.
7. NO "WET STICK" SETTING OF REINFORCING WILL BE APPROVED.
8. ALL VERTICAL REINFORCING MUST BE IN PLACE & TIED TO FOOTING REINF. PRIOR TO POUR.
9. COORDINATE ALL FOOTING LOCATIONS WITH CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS. CONTRACTOR SHALL PROVIDE PIPE SLEEVES BELOW OR ABOVE CONTINUOUS WALL FOOTINGS.
10. SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN. IF A CONFLICT EXISTS, THE ARCH. DIMENSIONS SHALL GOVERN. BOTH ENGINEER AND ARCHITECT OF RECORD SHALL BE NOTIFIED IN WRITING OF ALL CONFLICTS.
11. FOR TYPICAL DETAILS SEE S500 SERIES SHEETS.

SLAB-ON-GRADE NOTES

1. TOP OF FIRST FLOOR SLAB IS AT DATUM EL. 0'-0" (0'-0" NAVD), (U.N.O.).
2. SLABS ARE DESIGNED USING 4" THICK 3,000 PSI CONC. REINFORCED W/ 6X6-W1.4xW1.4 WELDED WIRE MESH ON 15 MIL. VAPOR BARRIER PLACED ATOP UNDISTURBED SOIL OR ENGINEERED FILL COMPACTED TO 95% MAXIMUM MODIFIED PROCTOR.
3. SLABS UTILIZING 6X6-W1.4xW1.4 WELDED WIRE MESH SHOULD HAVE CONTROL JOINTS @ MAXIMUM 12 FT O.C.E.W. TO REDUCE EXCESSIVE TEMPERATURE & SHRINKAGE CRACKING.
4. ALL TURNDOWN SLAB FOOTINGS MUST HAVE A MINIMUM PERIMETER HAUNCH DEPTH OF 20" (U.N.O.).
5. SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN. IF A CONFLICT EXISTS, THE ARCH. DIMENSIONS SHALL GOVERN. BOTH ENGINEER AND ARCHITECT OF RECORD SHALL BE NOTIFIED IN WRITING OF ALL CONFLICTS.
6. FOR TYPICAL DETAILS SEE S500 SERIES SHEETS.
7. **FOUNDATION SIZING & REINFORCING TO BE CONFIRMED ONCE REACTION LOADS ARE PROVIDED FROM MFR.**



1 CONCESSION BUILDING
1/4" = 1'-0"

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NORTH BAY HAVEN CHARTER ACADEMY
BLEACHERS & CONCESSION BUILDING

1 BUCCANEER DRIVE, PANAMA CITY, FL 32404

REVISIONS
NO. DESCRIPTION *DATE*

Project Number **25025**
Dated 08.06.2025

CONCESSIONS FOUNDATION PLAN
S101

FOUNDATION LEGEND
1/4" = 1'-0"

- - - - - - DENOTES EDGE OF FOUNDATION ELEMENT BELOW

SLAB-ON-GRADE NOTES

1. TOP OF FIRST FLOOR SLAB IS AT DATUM EL. 0'-0" (0'-0" NAVD), (U.N.O.).
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7. **FOUNDATION SIZING & REINFORCING TO BE CONFIRMED ONCE REACTION LOADS ARE PROVIDED FROM MFR.**

FOOTING NOTES

1. TOPS OF ALL FOOTINGS (EXCEPT TURNDOWNS) MUST BE COVERED WITH A MINIMUM OF 12" OF FINISH GRADE MATERIAL, (U.N.O.).
2. BOTTOMS OF ALL FOOTINGS MUST BEAR ATOP UNDISTURBED SOIL OR ENGINEERED FILL COMPACTED TO 95% MAXIMUM MODIFIED PROCTOR A MINIMUM OF 12" BELOW EXISTING GRADE UNLESS PROPER PROVISIONS HAVE BEEN MADE FOR THE USE OF ENGINEERED FILL BASED ON A SITE SPECIFIC GEOTECHNICAL EVALUATION (BY OTHERS).
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4. ALL CONTINUOUS FOOTINGS & PEDESTALS MUST BE CENTERED ON THE WALL/PIER UNLESS SPECIFICALLY NOTED AS ECCENTRIC FOOTING.
5. FOOTING SIZES, REINFORCING TYPE & SPACING LISTED WITHIN THE FOOTING SCHEDULE SHALL GOVERN OVER FOOTING NOTES.
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8. ALL VERTICAL REINFORCING MUST BE IN PLACE & TIED TO FOOTING REINF. PRIOR TO POUR.
9. COORDINATE ALL FOOTING LOCATIONS WITH CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS. CONTRACTOR SHALL PROVIDE PIPE SLEEVES BELOW OR ABOVE CONTINUOUS WALL FOOTINGS.
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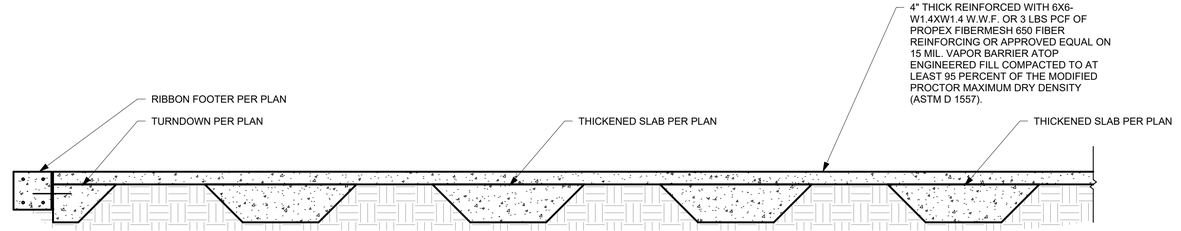
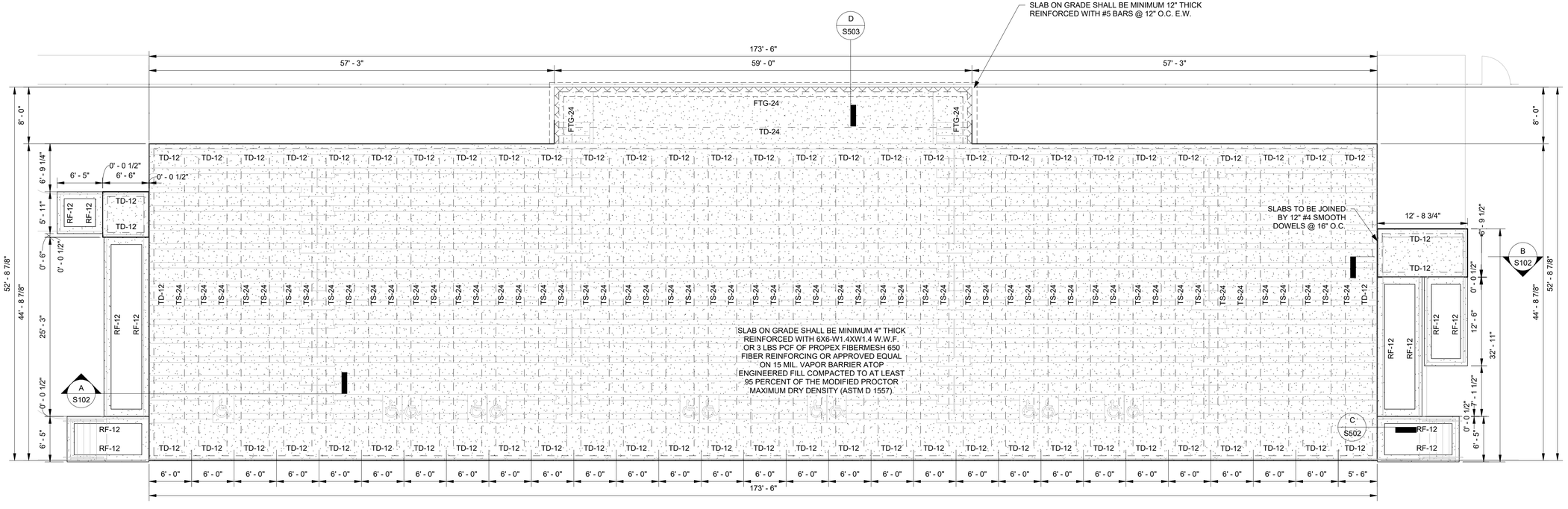
11. FOR TYPICAL DETAILS SEE S500 SERIES SHEETS.



A TYPICAL WALL SECTION
1/2" = 1'-0"



1 BLEACHERS
1/8" = 1'-0"

FOOTING SCHEDULE				
DESIGNATION	TYPE	DIMENSIONS	LONGITUDINAL REINF.	TRANS. REINF.
FTG-24	CONT. STRIP	12" D x 24" W	(3) #5 BARS	#5 BARS x 18" @ 18" O.C.
RF-12	RIBBON	14" D x 12" W	(2) #5 BARS T&B	#5 BARS x 6" @ 18" O.C.
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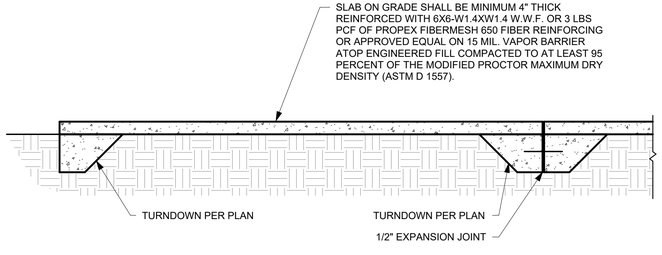
TS-24	THICKENED SLAB	12" D x 24" W	(3) #5 BARS	#5 BARS x 18" @ 18" O.C.



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

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BLEACHERS & CONCESSION BUILDING

1 BUCCANEER DRIVE,
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REVISIONS
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Project Number **25025**
Dated 08.06.2025

BLEACHERS FOUNDATION PLAN

S102

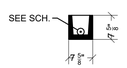
FRAMING LEGEND
1/4" = 1'-0"

- DENOTES TYP. 8" CMU WALL REINF. w/ VERT. #5 BARS @ ENDS, CORNERS, EACH SIDE OF INTERSECTIONS, & 24" O.C. THEREAFTER. INSTALL DBL. COURSE OF OPEN BOTTOM BOND BEAMS w/ (2) CONT. #5 BARS EA. @ TOP OF CMU WALLS & MID FLOORS (TYP)

- DENOTES LINTEL OR HDR AS NOTED ON PLAN.

LINTEL SCHEDULE

L-1



NOTE: NOT TO SCALE.

DESIGNATION	SIZE	TYPE	REINFORCING	
			TOP	BTM
L-1	7 5/8" W x 7 5/8" D	8F8-1B/0T	(0) #5 BARS	(1) #5 BAR

JAMB STUD FRAMING SCHEDULE - 2x6 WALL

	UP TO 3'-0" R.O.	3'-0" TO 6'-0" R.O.	6'-1" TO 10'-0" R.O.	10'-1" TO 13'-0" R.O.
FIRST FLOOR	2 KING, 1 JACK	3 KING, 2 JACK	4 KING, 3 JACK	5 KING, 4 JACK

WINDOW & DOOR HEADER SCHEDULE - 2x6 WALL

LOCATION	MAXIMUM CLEAR SPAN LENGTH			
	UP TO 3'-0" R.O.	3'-1" TO 6'-0" R.O.	6'-1" TO 9'-0" R.O.	GREATER THAN 9'-0"
FIRST FLOOR	3-2x8	SEE PLAN	SEE PLAN	SEE PLAN

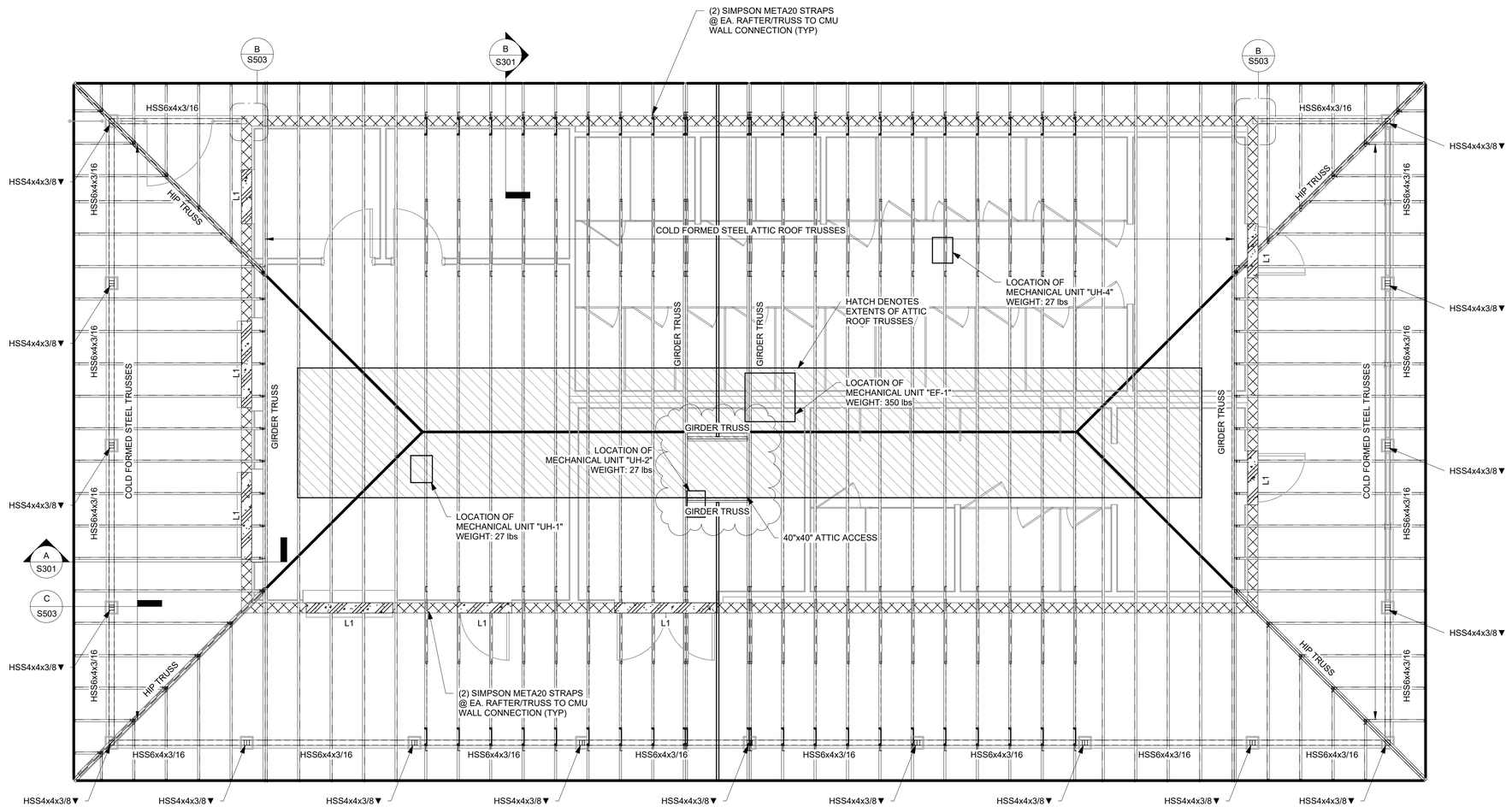
COLD FORMED STEEL NOTES

REFERENCE STANDARDS:

1. AISI S100-16 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL - STRUCTURAL MEMBERS"
2. AISI S240-15 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL FRAMING"
3. AISI S400-15 "NORTH AMERICAN STANDARD FOR SEISMIC DESIGN OF COLD-FORMED STEEL STRUCTURAL SYSTEMS"
4. SSMA "PRODUCT TECHNICAL GUIDE"
5. AWS D1.3-18 "STRUCTURAL WELDING CODE-SHEET STEEL"

MATERIALS:

1. **STRUCTURAL SECTIONS:** 54, 68, AND 97-MIL; ASTM A653 GRADE D OR ASTM A1011 GRADE 50, MIN FY=50 KSI, 33 AND 43-MIL; ASTM A653 GRADE A OR ASTM A1011 GRADE 33, MIN FY=33 KSI.
2. **SHEET METAL SCREWS:** GRABBER SELF-DRILLING, #10 SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS; ASTM C1513 OR SER APPROVAL ALTERNATE.
3. **FASTENERS TO STEEL:** HILTI X-U POWDER ACTUATED FASTENERS.
4. **FASTENERS TO CONCRETE:** HILTI X-U POWDER ACTUATED FASTENERS PER THE "POST-INSTALLED ANCHORS" SECTION ABOVE.
5. **WELD MATERIAL:** E60XX ELECTRODES CONFORMING TO AWS D1.3.
6. **ROOF TRUSSES:** SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653 G90 OR GREATER COATINGS. FASTENINGS NOT SHOWN ON THE DRAWINGS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
7. **SIZE AND PROFILE:** COLD-FORMED STEEL FRAMING MEMBERS SHALL BE AS SPECIFIED IN THE STEEL STUD MANUFACTURER'S ASSOCIATION ICC EVALUATION REPORT ER-4943P AND OF THE SIZE AND PROFILE AS SHOWN ON THE DRAWINGS. ALTERNATE MEMBERS EQUIVALENT IN SHAPE, SIZE, AND STRENGTH BY MANUFACTURERS NOT MEMBERS OF THE STEEL STUD MANUFACTURER'S ASSOCIATION SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER.
8. **CONNECTORS AND FASTENERS:** CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURERS INSTRUCTIONS. ALL SCREWS SHALL BE SNUG WITH THE STEEL SURFACE AND SHALL PENETRATE INTO STEEL STUDS BY A MINIMUM OF THREE EXPOSED THREADS. CONNECTIONS SHALL NOT BE STRIPPED. SCREWS SHALL BE INSTALLED A MINIMUM OF 3/8" FROM STEEL EDGES AND WITH NO LESS THAN 3/4" O.C. SPACING.
   A. WHEN FASTENING TO STEEL, POWDER ACTUATED FASTENERS SHALL BE INSTALLED A MINIMUM OF 1/2" FROM STEEL EDGES AND WITH NO LESS THAN 1" O.C. SPACING. WHEN FASTENING TO CONCRETE, POWDER ACTUATED FASTENERS SHALL BE INSTALLED A MINIMUM OF 3" FROM CONCRETE EDGES AND WITH NO LESS THAN 4" O.C. SPACING.



1 CONCESSION BUILDING
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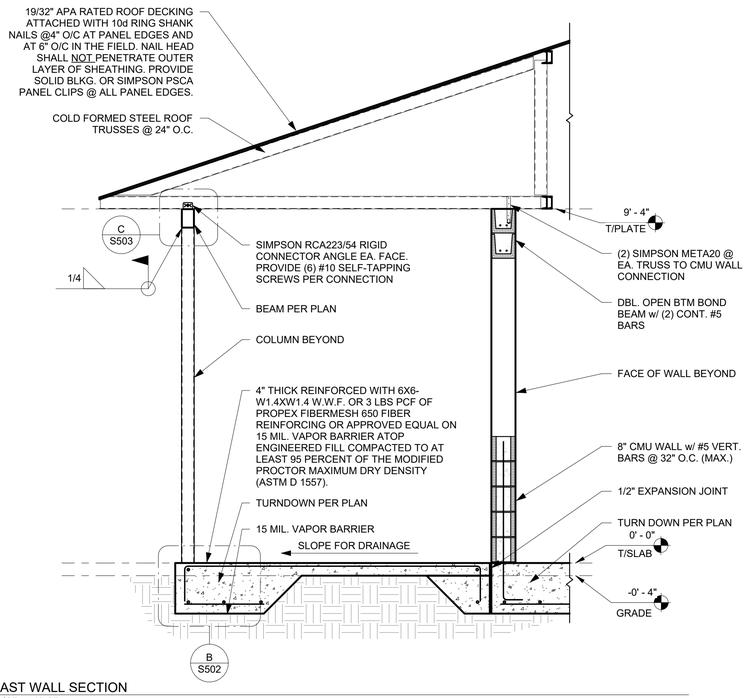
REVISIONS

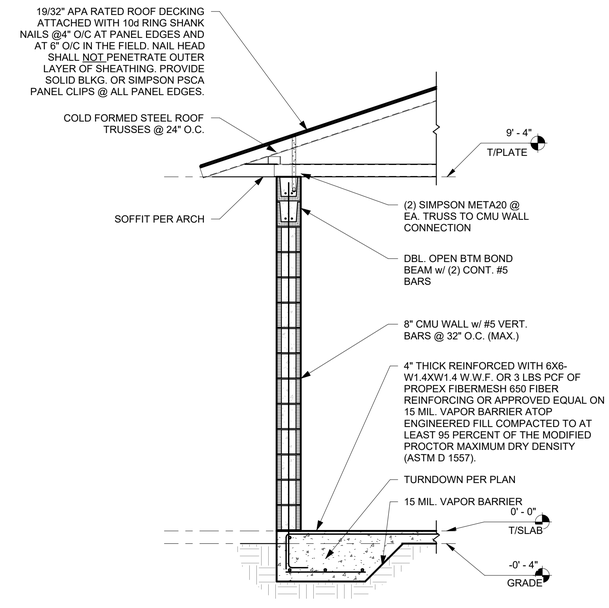
NO.	DESCRIPTION	DATE
1	Revision 1	Date 1

Project Number	**25025**
Dated	08.06.2025

ROOF FRAMING PLAN
S103



A EAST WALL SECTION
1/2" = 1'-0"



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

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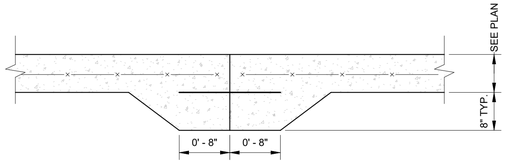
STRUCTURAL SECTIONS

S301

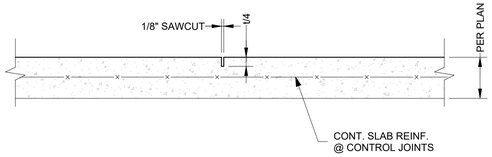
CONSTRUCTION JOINT

REQUIRED AT ALL LOCATIONS OF DISCONTINUOUS SLAB POURS

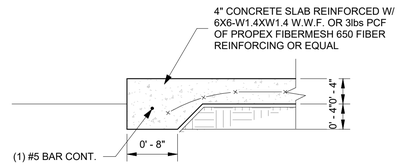


CONTROL JOINT

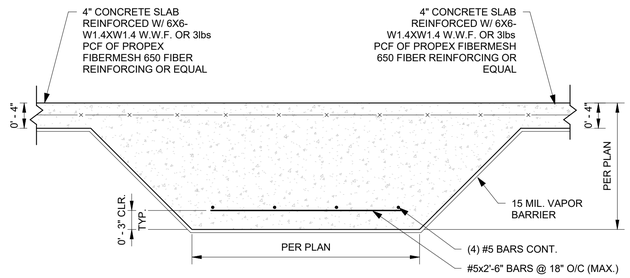
SPACE @ 10' O.C.E.W. MAX



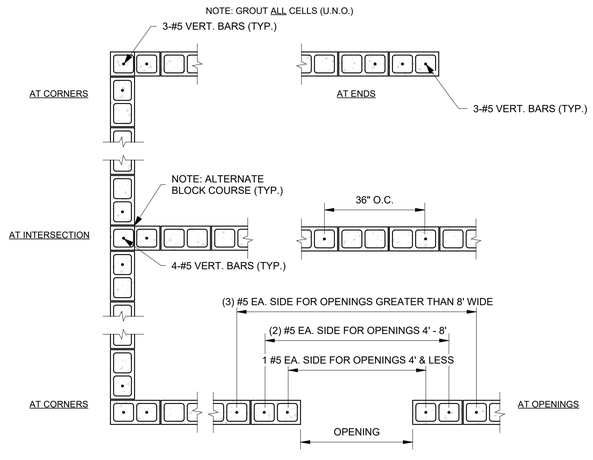
A TYP. SLAB FINISHING DETAIL
1" = 1'-0"



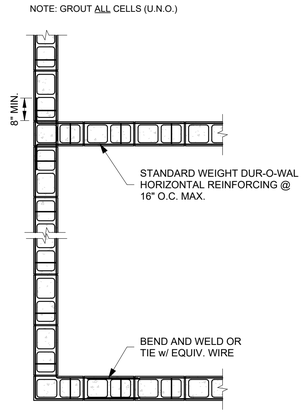
B TYP. SLAB HAUNCH DETAIL
1" = 1'-0"



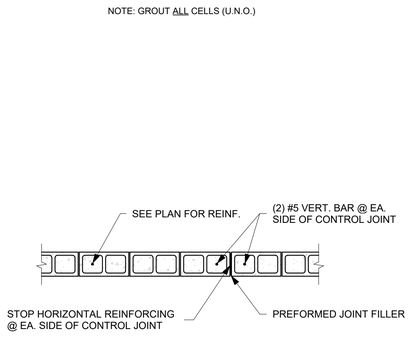
C TYP. THICKENED SLAB DETAIL
1" = 1'-0"



D TYP. CMU WALL VERT. REINF. DETAIL
1" = 1'-0"



E TYP. CMU WALL HORIZ. REINF. DETAIL
1" = 1'-0"



F TYP. CMU WALL CONTROL JOINT DETAIL
1" = 1'-0"

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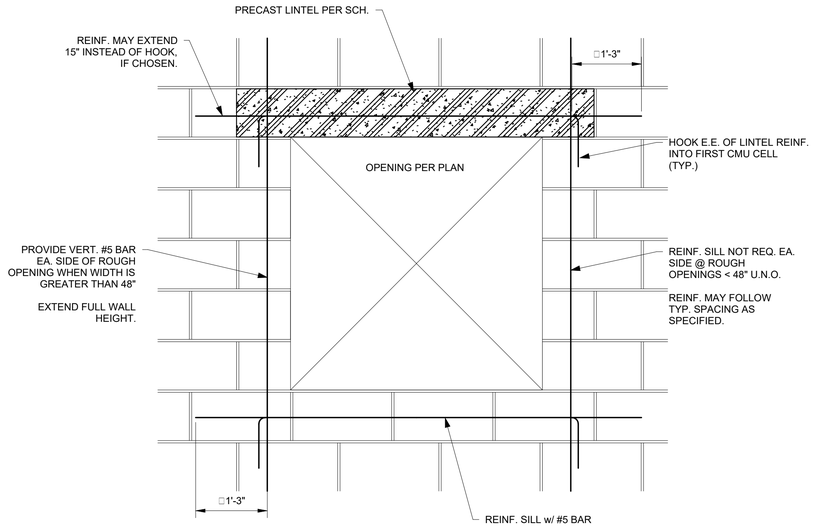
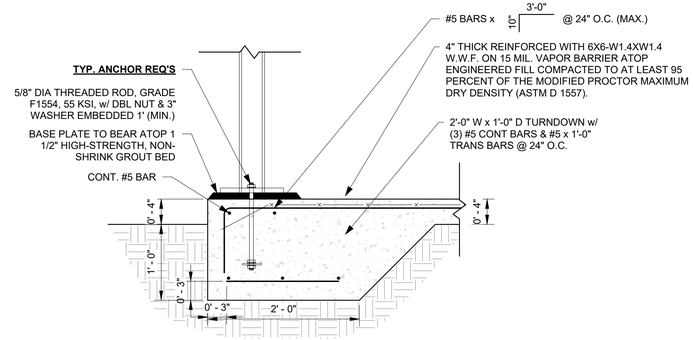
STRUCTURAL DETAILS

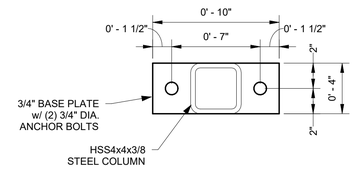
S501



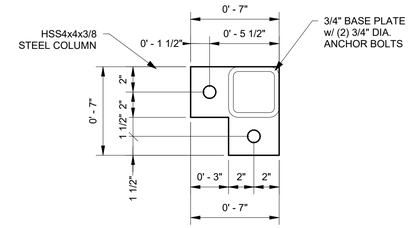
A TYP. CMU WALL OPENING DETAIL
1" = 1'-0"



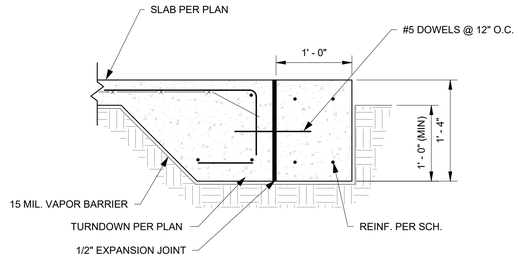
B TYP. TURNDOWN w/ STEEL COL. CONNECTION DETAIL
1" = 1'-0"



BASE PLATE "BP-1"



BASE PLATE "BP-2"



C TYP. TURNDOWN TO RIBBON FOOTER CONNECTION
1" = 1'-0"

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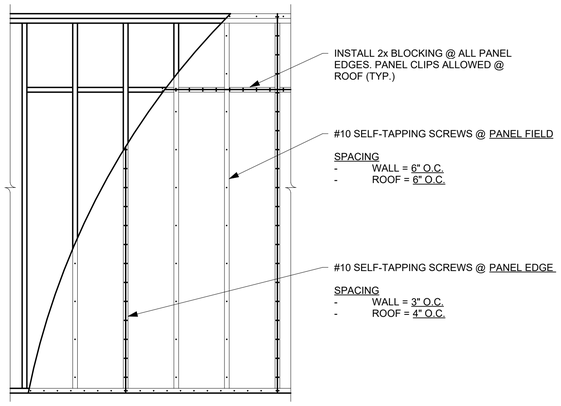
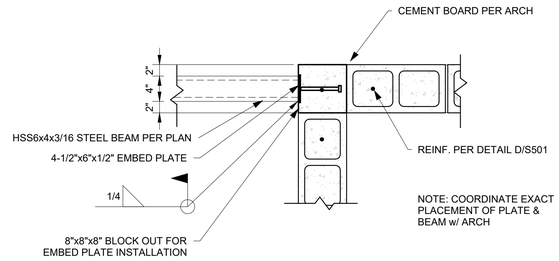
STRUCTURAL DETAILS

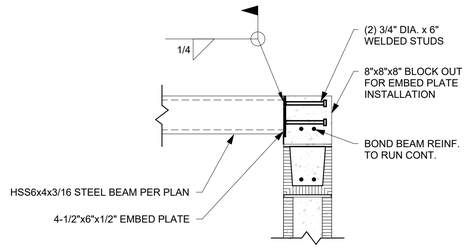
S502



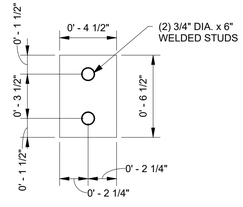
A TYP. ROOF SHEATHING DETAIL
1" = 1'-0"



PLAN VIEW

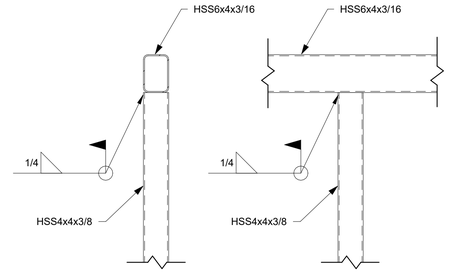


SECTION VIEW

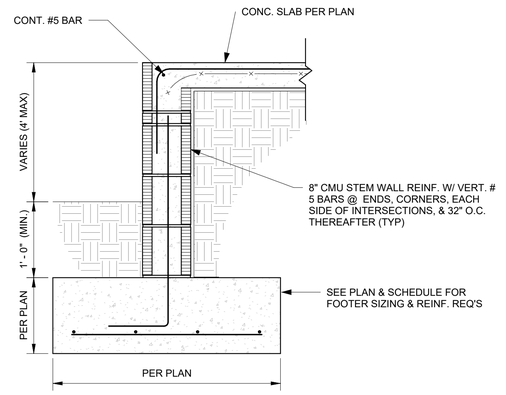


EMBEDMENT PLATE

B TYP. STEEL BEAM TO CMU CONNECTION DETAIL
1" = 1'-0"



C TYP. STEEL BEAM TO COL. CONNECTION DETAIL
1" = 1'-0"



D TYP. STEM WALL DETAIL
1" = 1'-0"

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Project Number **25025**
Dated 08.06.2025

STRUCTURAL DETAILS
S503

STANDARD ABBREVIATIONS

AC	AIR CONDITIONED	JAN	JANITOR
AD	AREA DRAIN	JB	JUNCTION BOX
AFF	ABOVE FINISH(ED) FLOOR	JCT	JUNCTION
AHU	AIR HANDLING UNIT	JT	JOINT
ALT	ALTERNATE		
ALUM	ALUMINUM	KB	KNOX BOX
AMP, A	AMPERES	KVA	KILOVOLT-AMPERES
AO	ACCESS OPENING		
APPROX	APPROXIMATELY	LAV	LAVATORY
ARCH	ARCHITECTURAL	LB, #	POUND
ATC	ACOUSTIC TILE CEILING	LED	LIGHT EMITTING DIODE
		LTG	LIGHTING
BAL	BALANCE		
BD	BOARD	M	MOTOR
BLDG	BUILDING	MAINT	MAINTENANCE
BM	BEAM	MAX	MAXIMUM
BO	BRICK OPENING	MECH	MECHANICAL
BOT	BOTTOM	MEZZ	MEZZANINE
BRG	BEARING	MIN	MINIMUM
BTUH	BRITISH THERMAL UNITS/HOUR	MISC	MISCELLANEOUS
		MO	MASONRY OPENING
CAB	CABINET	MTD	MOUNTED
CAP	CAPACITY	MTG	MOUNTING
CB	CIRCUIT BREAKER	MTL	METAL
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED		
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED	NA	NOT APPLICABLE
CFM	CUBIC FEET/MINUTE	NIC	NOT IN CONTRACT
CG	CORNER GUARD	NO	NUMBER
CL	CENTERLINE	NRC	NOISE REDUCTION COEFFICIENT
CLG	CEILING	NTS	NOT TO SCALE
CLO	CLOSET		
CLR	CLEAR	OA	OUTDOOR AIR
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
CO	CLEANOUT	OD	OUTSIDE DIAMETER
COL	COLUMN	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CONC	CONCRETE	OFOI	OWNER FURNISHED OWNER INSTALLED
COND	CONDENSATE	OPP	OPPOSITE (HAND)
CONST	CONSTRUCTION	ORD	OVERFLOW ROOF DRAIN
CONT	CONTINUOUS	OTS	OPEN TO STRUCTURE
CT	CERAMIC TILE		
CTB	CERAMIC TILE BASE	PLBG	PLUMBING
CTR	CENTER	PSF	POUNDS/SQUARE FOOT
		PSI	POUNDS/SQUARE INCH
DEPT	DEPARTMENT	PT	POINT
DET	DETAIL	PTD	PAINTED
DIA	DIAMETER		
DIM	DIMENSION	QTR	QUARTER
DISC	DISCONNECT	QTY	QUANTITY
DN	DOWN		
DR	DRAIN	R	RISER
DS	DOWNSPOUT	RA	RADIUS
DWG(S)	DRAWING(S)	RCP	REFLECTED CEILING PLAN
		RD	ROOF DRAIN
EA	EACH	REQ	REQUIRED
EIFS	EXT INSULATION FINISH SYSTEM	RM	ROOM
EJ	EXPANSION JOINT	RO	ROUGH OPENING
ELEC	ELECTRIC(AL)	RPM	REVOLUTIONS/MINUTE
ELEV	ELEVATOR	R VALUE	THERMAL RESISTANCE
EQ	EQUAL(S)		
EQUIP	EQUIPMENT	SCHED	SCHEDULE
ETR	EXISTING TO REMAIN	SD	STORM DRAIN
EW	EACH WAY	SECT	SECTION
EWC	ELECTRIC WATER COOLER	SHT	SHEET
EXT	EXTERIOR	SIM	SIMILAR
EXIST	EXISTING	SPEC	SPECIFICATION(S)
		SQ FT	SQUARE FEET (FOOT)
FA	FIRE ALARM	STC	SOUND TRANSMISSION CLASS (COEFFICIENT)
FC	FLEXIBLE CONNECTION	STD	STANDARD
FD	FLOOR DRAIN	STL	STEEL
FE	FIRE EXTINGUISHER AND BRACKET	STOR	STORAGE
FEC	FIRE EXTINGUISHER AND CABINET	STRUC	STRUCTURE(AL)
FIN	FINISH	SUSP	SUSPENDED
FLR	FLOOR	SW	SWITCH
FT	FOOT, FEET		
FV	FIELD VERIFY	TEL	TELEPHONE
		TEMP	TEMPERATURE
GA	GAUGE	THK	THICK(NESS)
GAL	GALLON	THRU	THROUGH
GALV	GALVANIZED	TLT	TOILET
GL	GLASS	TOB	TOP OF BEAM
GND	GROUND	TOC	TOP OF CONCRETE
GPH	GALLONS/HOUR	TOF	TOP OF FOOTING
GPM	GALLONS/MINUTE	TYP	TYPICAL
GWB	GYPSUM WALLBOARD		
		UL	UNDERWRITER LABORATORIES
HB	HOSE BIB	UNO	UNLESS NOTED OTHERWISE
HC	HOLLOW CORE		
HDCP	HANDICAP(PED)	V	VOLT
HM	HOLLOW METAL	VERT	VERTICAL
HMF	HOLLOW METAL FRAME	VTR	VENT THROUGH ROOF
HORIZ	HORIZONTAL		
HP	HORSEPOWER	W/	WITH
HR	HOUR	WC	WATER CLOSET
HT	HEIGHT	WD	WOOD
HTG	HEATING	WH	WALL HYDRANT
HW	HARDWARE	W/O	WITHOUT
HYD	HYDRANT	WTR	WATER
		XC	EXPANSION CONTROL
ID	INSIDE DIAMETER	XPS	EXTRUDED POLYSTYRENE BOARD
IE	INVERT ELEVATION		
IN	INCHES		
INFO	INFORMATION		
INSUL	INSULATION		
INT	INTERIOR		

STANDARD SYMBOLS

SECTION NUMBER
1
SIM
A-101
SHEET NUMBER
SECTION MARKER

ELEVATION NUMBER
1
SIM
A-101
SHEET NUMBER
ELEVATION MARKER

1
ELEVATION NUMBERS
1 A101 1
1
SHEET NUMBER
INTERIOR ELEVATION MARKER

DETAIL NUMBER
1
SIM
A101
SHEET NUMBER
DETAIL MARKER

PROJECT NORTH
PROJECT NORTH ARROW

NORTH
TRUE NORTH ARROW

2.0%
INDICATES SLOPE DOWN

1
DENOTES REVISION NUMBER

PLAN SYMBOLS

OFFICE
[101]
350 SF
ROOM IDENTIFIER - NAME, NUMBER, AREA

W1.1
PARTITION TYPE IDENTIFIER - SEE WALL TYPES

1001A
DOOR IDENTIFIER - SEE DOOR SCHEDULE

#
WINDOW IDENTIFIER - SEE WINDOW TYPES AND ELEVATIONS

SF#
STOREFRONT WINDOW IDENTIFIER - SEE STOREFRONT TYPES AND ELEVATIONS

CW#
CURTAIN WALL IDENTIFIER - SEE CURTAIN WALL TYPES AND ELEVATIONS

0
EXISTING COLUMN GRIDLINE

0
NEW COLUMN GRIDLINE

10'-0"
CEILING HEIGHT INDICATOR (DISTANCE AFF)

CLG-1
CEILING TYPE INDICATOR (TYPE MARK)

EQ-1
EQUIPMENT - CONTRACTOR-PROVIDED

EQ-1
EQUIPMENT - OWNER-PROVIDED

1
SIGNAGE IDENTIFIER - SEE SIGN TYPES

SPOT ELEVATION MARKER

Name
Elevation
ELEVATION (FLOOR / LEVEL) MARKER

FINISH SYMBOLS

PT-1
B-1
WALL AND BASE FINISH
EXTENT OF FINISH

PT-1
WALL FINISH
EXTENT OF FINISH

PT-1
FLOOR FINISH

Multi
CEILING / FLOOR FINISH

CHANGE IN SPECIFIED FINISH - PROVIDE TRANSITION STRIP AS REQUIRED

DIRECTION OF SPECIFIED FINISH

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ABBREVIATIONS & SYMBOLS

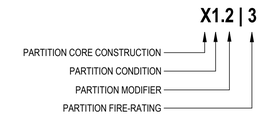
A-001

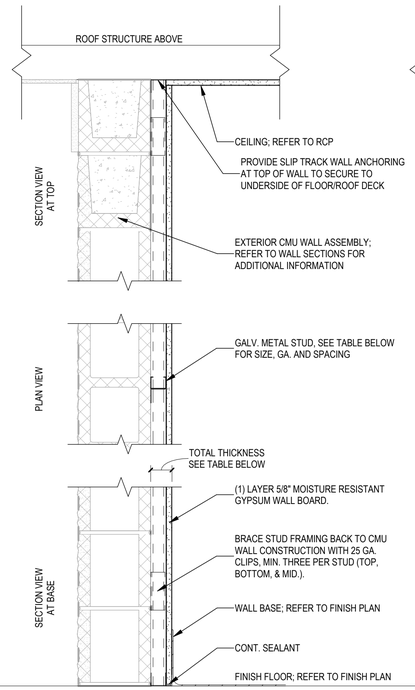
GENERAL NOTES - PARTITION TYPES

WALL AND PARTITION GENERAL NOTES:

1. ALL MASONRY TO BE RUNNING BOND WITH CONCAVE JOINTS, UNLESS NOTED OTHERWISE.
2. REFER TO STRUCTURE FOR LOAD BEARING AND LATERAL LOAD RESISTANT WALL CONSTRUCTION.
3. PROVIDE 2 CONTINUOUS BEADS OF ACOUSTICAL SEALANT AROUND PARIMETER OF BOTTOM TRACK OF ALL STC RATED PARTITIONS.
4. PROVIDE (2) METAL STUDS MIN. AT ALL JAMB CONDITIONS.
5. PROVIDE CEMENTITIOUS TILE BACKER BOARD BEHIND TILE AND MOISTURE RESISTANT GYPSUM WALL BOARD ABOVE TILE, WHERE OCCURS.
6. CONTRACTOR SHALL PROVIDE REINFORCING 2x WOOD BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT.
7. WHERE WALL CAVITIES ARE INDICATED TO RECEIVE INSULATION, ALL INSULATION IS TO BE UNFACED GLASS FIBER SOUND BATT INSULATION WITH THICKNESS TO MATCH STUD SIZE, UNO.
8. ELECTRICAL JUNCTION BOXES SHALL NEVER BE INSTALLED "BACK TO BACK".
9. ALL ELECTRICAL JUNCTION BOXES WILL BE INSTALLED W/ SOUND PUTTY PADS @ STC PARTITIONS.
10. CUT GYPSUM BOARD TO FIT AROUND METAL DECK PROFILE.
11. SEAL ALL FLOOR AND WALL PENETRATIONS.
12. ALL INTERIOR WALLS AND PARTITIONS EXTEND TO DECK ABOVE, UNLESS NOTED OTHERWISE.

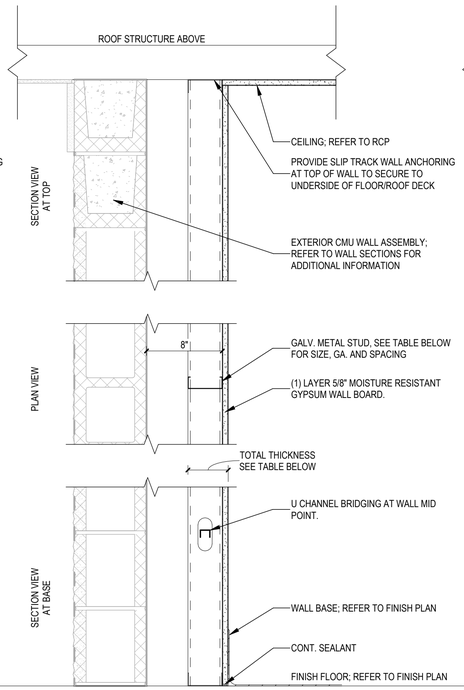
LEGEND





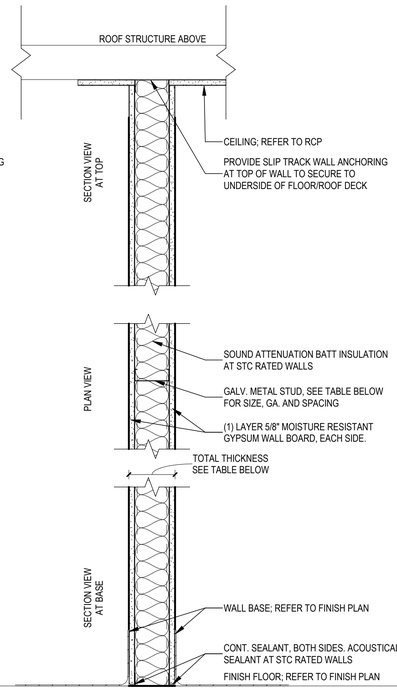
TYPICAL INTERIOR FURRED PARTITION

PARTITION TYPE	RATING	UL	STC	STUD SIZE/GA/SPACING	TOTAL THICKNESS
F1	-	-	-	1 5/8" / 20 / 16"	2 1/4"
F6	-	-	-	6" / 20 / 16"	6 5/8"



TYPICAL INTERIOR FURRED PLUMBING PARTITION

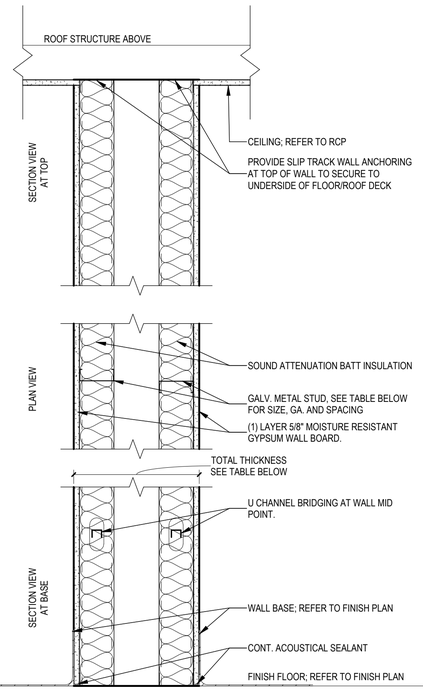
PARTITION TYPE	RATING	UL	STC	STUD SIZE/GA/SPACING	TOTAL THICKNESS
B1	-	-	-	3 5/8" / 20 / 16"	4 1/4"



TYPICAL INTERIOR VOID PARTITION

NGC 2018106; NGC 2018130

PARTITION TYPE	RATING	UL	STC	STUD SIZE/GA/SPACING	TOTAL THICKNESS
B3	-	-	-	3 5/8" / 20 / 16"	4 7/8"
B4	-	-	45	3 5/8" / 20 / 16"	4 7/8"
C3	-	-	-	6" / 20 / 16"	7 1/4"
C4	-	-	45	6" / 20 / 16"	7 1/4"



TYPICAL CHASE WALL PARTITION

NGC 2018106; NGC 2018130

PARTITION TYPE	RATING	UL	STC	STUD SIZE/GA/SPACING	TOTAL THICKNESS
SS4	-	-	60	3 5/8" / 20 / 16"	1' - 1 1/4"

PARTITION TYPES

PARTITION CORE

B METAL STUD 3 5/8"
C METAL STUD 6"
F 2 1/2" STUD ON SUBSTRATE
S CHASE WALL - METAL STUD 3 5/8"

PARTITION CONDITIONS

1 ONE LAYER GYPSUM BOARD, ONE SIDE
2 ONE LAYER GYPSUM BOARD, ONE SIDE W / SOUND ATTENUATION
3 ONE LAYER GYPSUM BOARD, EACH SIDE
4 ONE LAYER GYPSUM BOARD, EACH SIDE W / SOUND ATTENUATION

PARTITION MODIFIERS

— ALL STUDS AND GYPSUM BOARD EXTEND TO STRUCTURE ABOVE UNLESS NOTED BY MODIFIER

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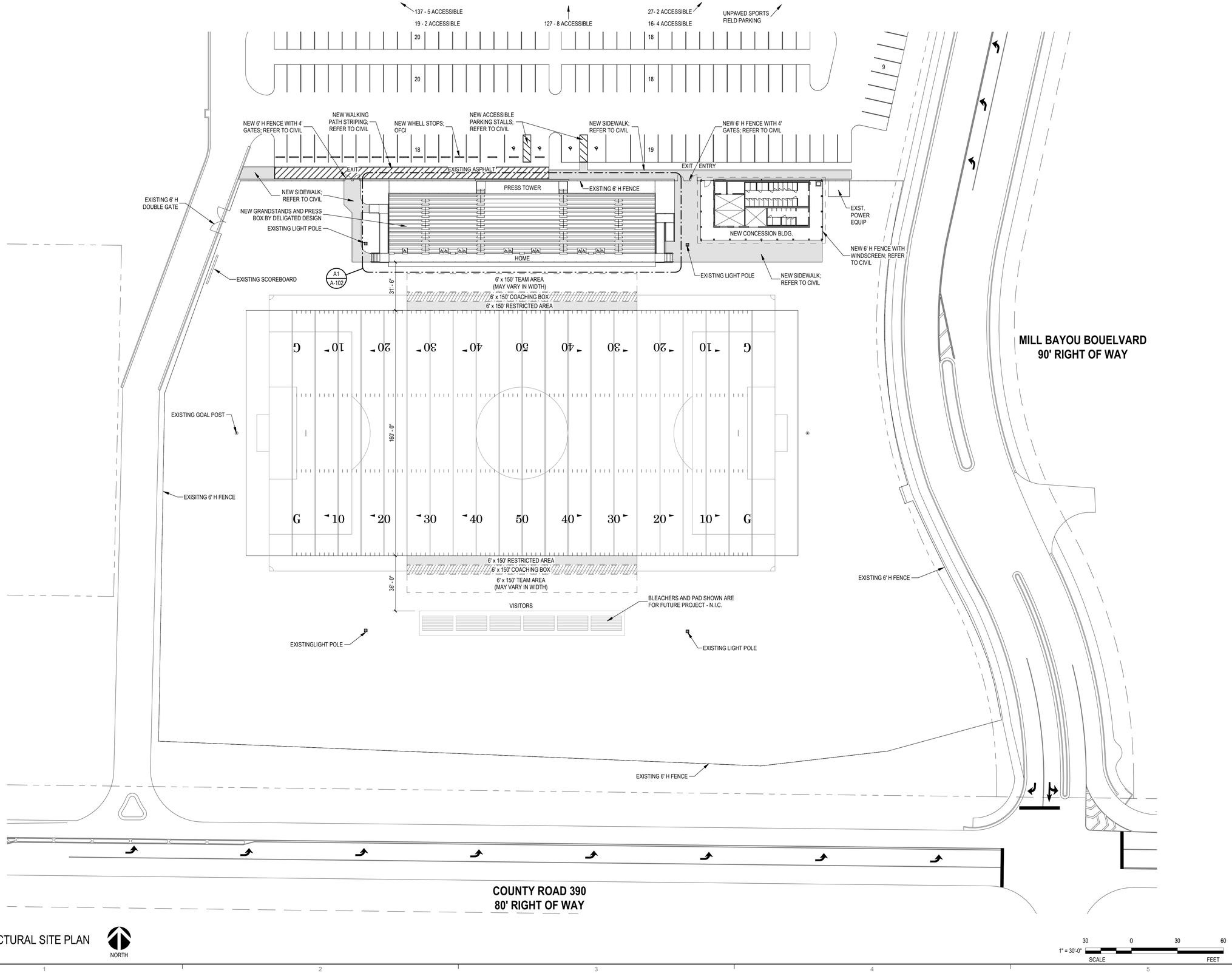
PARTITION TYPES INTERIOR
A-022



A1 ARCHITECTURAL SITE PLAN
SCALE: 1" = 30'-0"

NORTH

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

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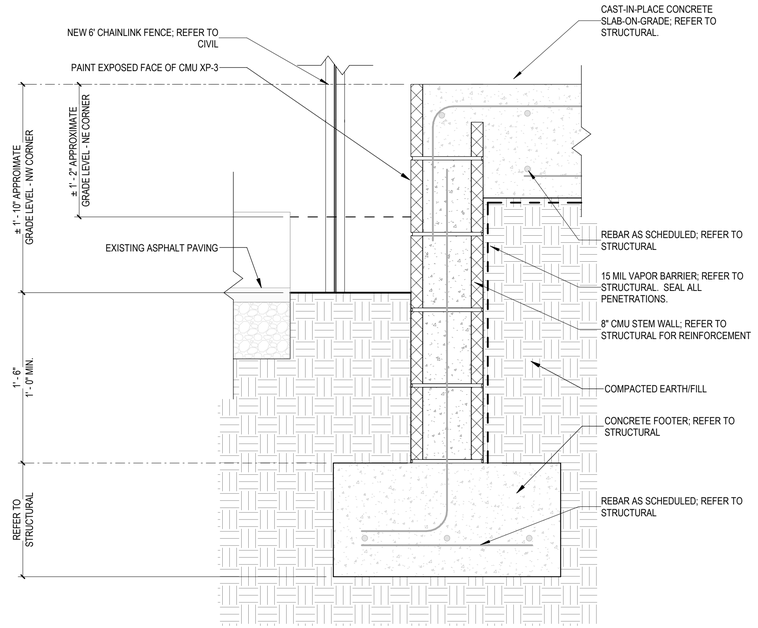
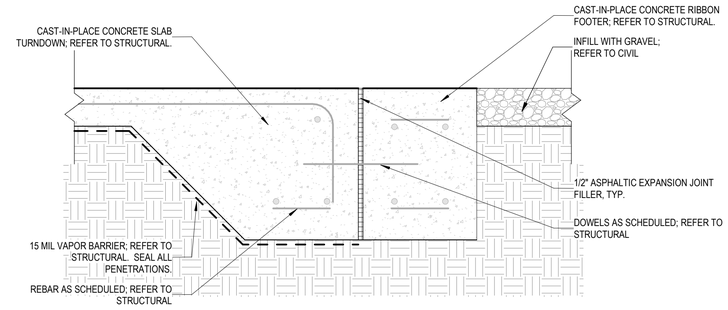
ARCHITECTURAL SITE PLAN
A-101



NOTE: ARCHITECTURAL DETAIL EXPLORES REQUIRED FOOTER DEPTH USING FULL SIZE BLOCKS FOR UNIFORM DESIGN AND CONSTRUCTABILITY. CONTRACTOR TO COORDINATE FINAL SLAB, STEM WALL, AND FOOTER DETAILS WITH STRUCTURAL AND GRANDSTAND / PRESS BOX MANUFACTURER'S SHOP DRAWINGS. APPROXIMATE GRADE LEVELS ARE DERIVED FROM THE PROPOSED GRADING PLAN; REFER TO CIVIL

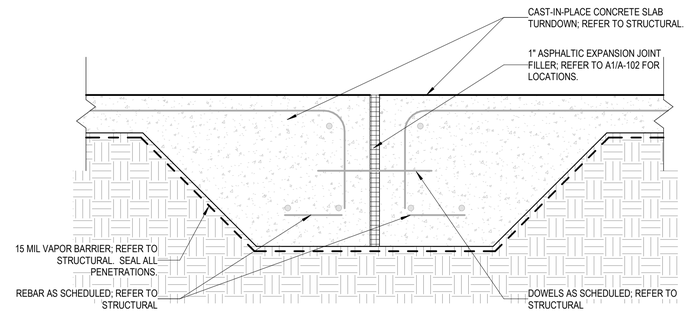
C1 SECTION DETAIL @ PRESS BOX FOUNDATION STEM WALL

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



D3 TYP. SECTION DETAIL @ RIBBON FOOTER TIE-IN

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

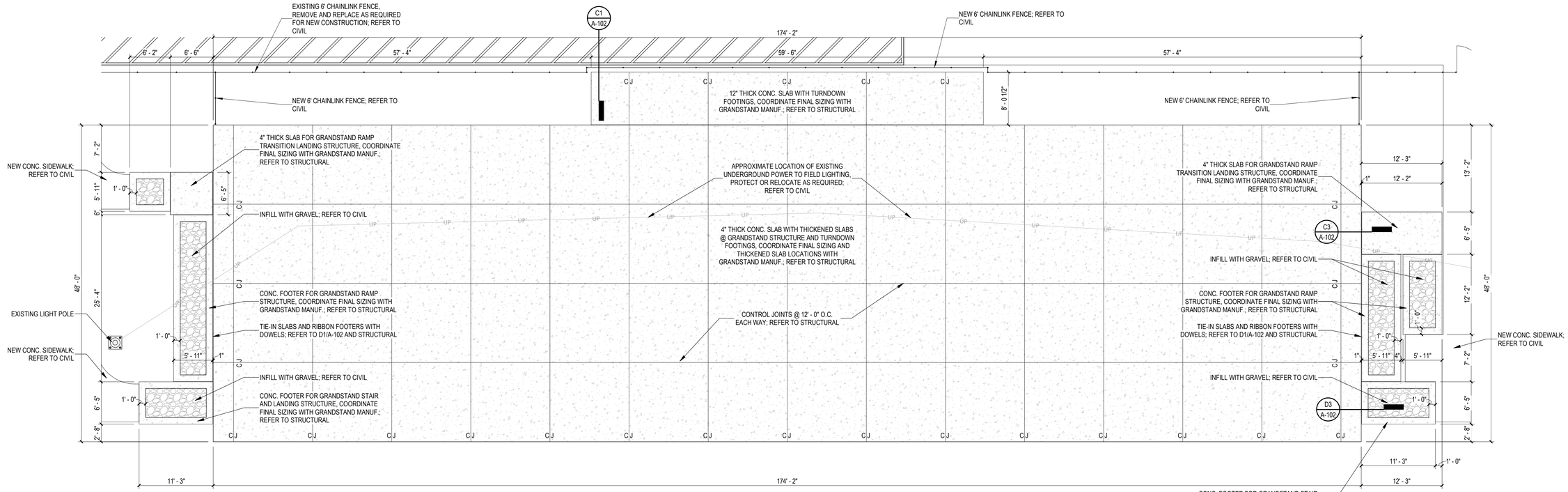


C3 TYP. SECTION DETAIL @ SLAB TIE-IN

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

GENERAL NOTES - ENLARGED SITE PLAN

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. SLABS SHOWN WERE DERIVED FROM THE BASIS OF DESIGN GRANDSTAND PROVIDED BY OUTDOOR ALUMINUM, INC. FINAL SIZING OF SLABS AND FOOTINGS SHOULD BE COORDINATED WITH FINAL GRANDSTAND DESIGN.
3. ALL REFERENCED DIMENSIONS ARE TO SLAB EDGE.
4. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION REGARDING SLABS.
5. REFER TO CIVIL FOR FULL EXTENTS OF SITE WORK.



A1 ENLARGED PLAN - GRANDSTAND PAD

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

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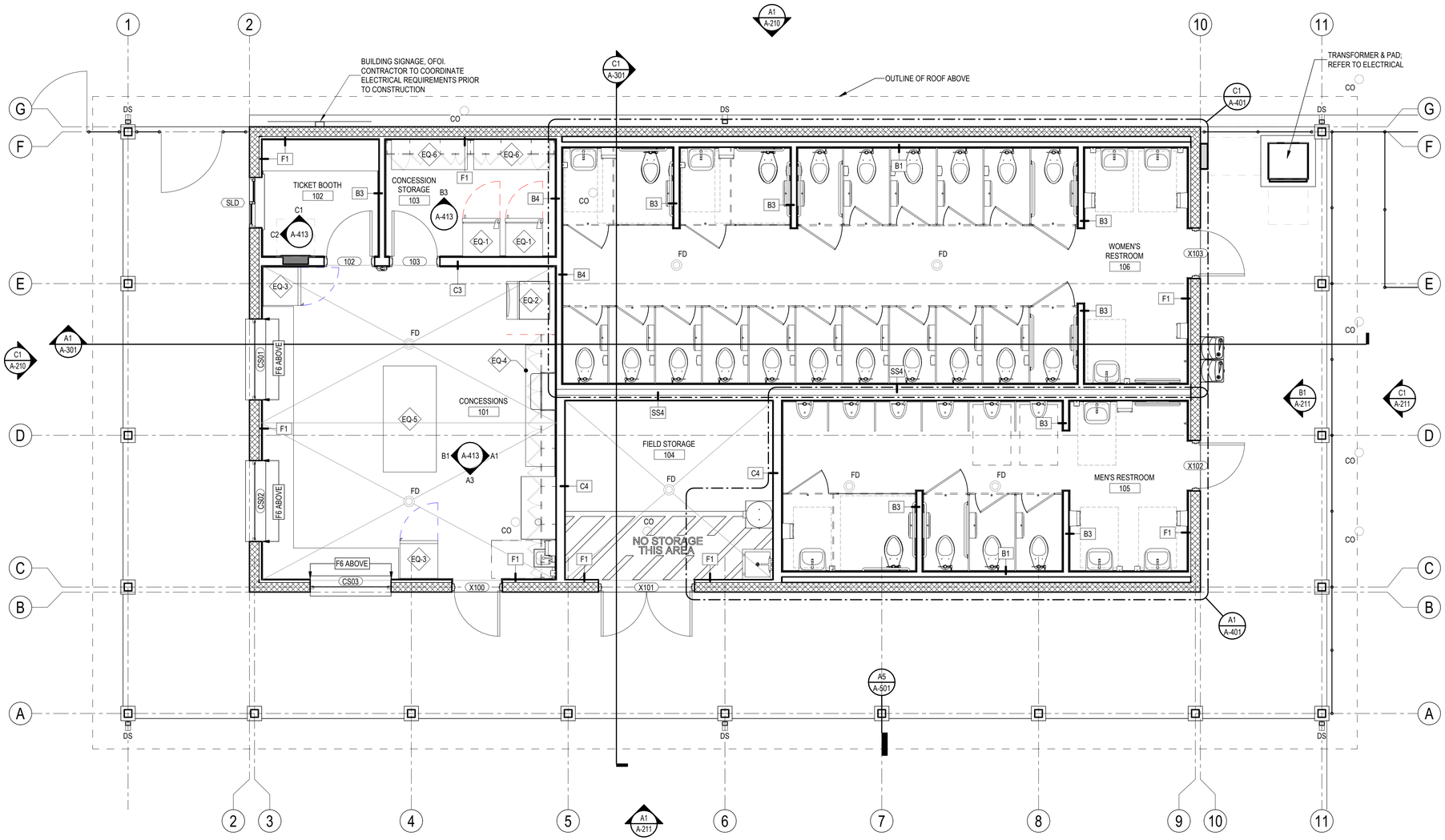
ENLARGED SITE PLAN - GRANDSTAND PAD

A-102



GENERAL NOTES - FLOOR PLAN

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. THE CONTRACTOR SHALL PROVIDE REINFORCING 2x WOOD BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT. COORDINATE WITH A/V, DATA, CASEWORK, FURNITURE, ELECTRICAL, AND INTERIOR ELEVATION DRAWINGS.
3. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND ALL OTHER DISCIPLINES.
4. INTERIOR DOORS TO BE LOCATED MIN 6" FROM ADJACENT STUD PARTITIONS AND 8" FROM ADJACENT MASONRY PARTITIONS, UNLESS DIMENSIONED OR NOTED OTHERWISE.
5. REFER TO FINISH SCHEDULE 0N A-113 FOR FINISHES.
6. REFER TO A-022 FOR ADDITIONAL INFORMATION ON INTERIOR PARTITION TYPE ASSEMBLIES.
7. ALL DIMENSIONS ON THE DIMENSION PLANS ARE AS FOLLOWS, UNLESS NOTED OTHERWISE:
   - ALL DIMENSIONS TO CMU ARE TO FACE OF CMU
   - ALL DIMENSIONS TO STUDS ARE TO FACE OF STUD, INCLUDING PARTITION TYPES WITH RESILIENT CHANNELS
8. REFER TO A-400 SERIES SHEETS FOR ADDITIONAL INFORMATION, INCLUDING TOILET ROOM DIMENSIONS.
9. REFER TO STRUCTURAL FOR BRACING TYPE AND LOCATIONS.
10. REFER TO PLUMBING FOR FIXTURE SCHEDULES.
11. CONTRACTOR SHALL PROVIDE ISOLATION BETWEEN DISSIMILAR METALS.
12. PROVIDE CONCRETE SPLASH BLOCKS / METAL SPLASH PANS AT ALL DOWNSPOUTS THAT DRAIN TO ROOFS OR GRADE, AND AT ALL CANOPY COLUMNS THAT DRAIN TO GRADE.

EQUIPMENT LEGEND

EQ-1	APPLIANCE:	REFRIGERATOR / FREEZER
	MANUFACTURER:	KENMORE
	MODEL:	KKUF17-W
	FINISH:	WHITE
	NOTES:	OWNER FURNISHED, OWNER INSTALLED.
EQ-2	APPLIANCE:	ICE MACHINE
	MANUFACTURER:	MANITOWOC
	MODEL:	IDT0500A ICE CUBE MACHINE W/ D-570 STORAGE BIN
	FINISH:	STAINLESS STEEL
	NOTES:	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
EQ-3	APPLIANCE:	DRINK COOLER
	MANUFACTURER:	UNKNOWN
	MODEL:	GDM-26
	FINISH:	OWNER SELECTED BRANDING
	NOTES:	OWNER FURNISHED, OWNER INSTALLED.
EQ-4	EQUIPMENT:	WORK TABLE WITH BACKSPLASH AND UNDERSHELF
	MANUFACTURER:	AERO
	MODEL:	3TGS-2496
	FINISH:	STAINLESS STEEL
	NOTES:	OWNER FURNISHED, OWNER INSTALLED.
EQ-5	EQUIPMENT:	WORK TABLE WITH UNDERSHELF
	MANUFACTURER:	AERO
	MODEL:	2TG-4284
	FINISH:	STAINLESS STEEL
	NOTES:	OWNER FURNISHED, OWNER INSTALLED.
EQ-6	EQUIPMENT:	WIRE SHELVING STARTER
	MANUFACTURER:	QUANTUM
	MODEL:	WR54-2460S
	FINISH:	STAINLESS STEEL
	NOTES:	OWNER FURNISHED, OWNER INSTALLED.
EQ-7	EQUIPMENT:	COUNTERTOP MICROWAVE
	MANUFACTURER:	BY OWNER
	MODEL:	BY OWNER
	FINISH:	BY OWNER
	NOTES:	OWNER FURNISHED, OWNER INSTALLED.

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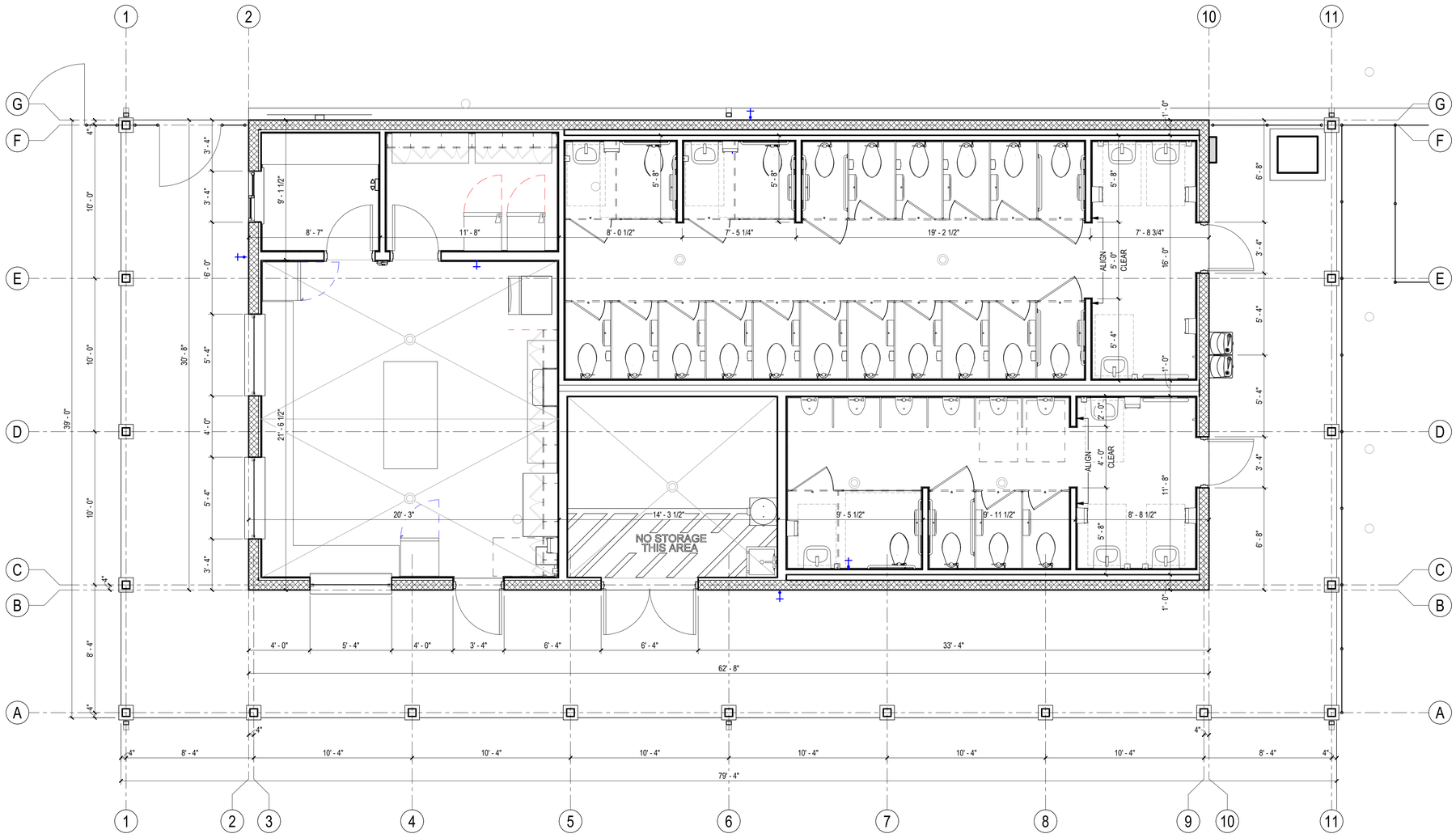
CONCESSION ANNOTATION PLAN
A-111

A1 LEVEL 1 ANNOTATED FLOOR PLAN
SCALE: 1/4" = 1'-0"

NORTH



A1 CONCESSION DIMENSIONED FLOOR PLAN
SCALE: 1/4" = 1'-0"

NORTH

GENERAL NOTES - FLOOR PLAN

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. THE CONTRACTOR SHALL PROVIDE REINFORCING 2x WOOD BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT. COORDINATE WITH A/V, DATA, CASEWORK, FURNITURE, ELECTRICAL, AND INTERIOR ELEVATION DRAWINGS.
3. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND ALL OTHER DISCIPLINES.
4. INTERIOR DOORS TO BE LOCATED MIN 6" FROM ADJACENT STUD PARTITIONS AND 8" FROM ADJACENT MASONRY PARTITIONS, UNLESS DIMENSIONED OR NOTED OTHERWISE.
5. REFER TO FINISH SCHEDULE 0N A-113 FOR FINISHES.
6. REFER TO A-022 FOR ADDITIONAL INFORMATION ON INTERIOR PARTITION TYPE ASSEMBLIES.
7. ALL DIMENSIONS ON THE DIMENSION PLANS ARE AS FOLLOWS, UNLESS NOTED OTHERWISE:
   - ALL DIMENSIONS TO CMU ARE TO FACE OF CMU
   - ALL DIMENSIONS TO STUDS ARE TO FACE OF STUD, INCLUDING PARTITION TYPES WITH RESILIENT CHANNELS
8. REFER TO A-400 SERIES SHEETS FOR ADDITIONAL INFORMATION, INCLUDING TOILET ROOM DIMENSIONS.
9. REFER TO STRUCTURAL FOR BRACING TYPE AND LOCATIONS.
10. REFER TO PLUMBING FOR FIXTURE SCHEDULES.
11. CONTRACTOR SHALL PROVIDE ISOLATION BETWEEN DISSIMILAR METALS.
12. PROVIDE CONCRETE SPLASH BLOCKS / METAL SPLASH PANS AT ALL DOWNSPOUTS THAT DRAIN TO ROOFS OR GRADE, AND AT ALL CANOPY COLUMNS THAT DRAIN TO GRADE.

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REVISIONS

NO.	DESCRIPTION	DATE

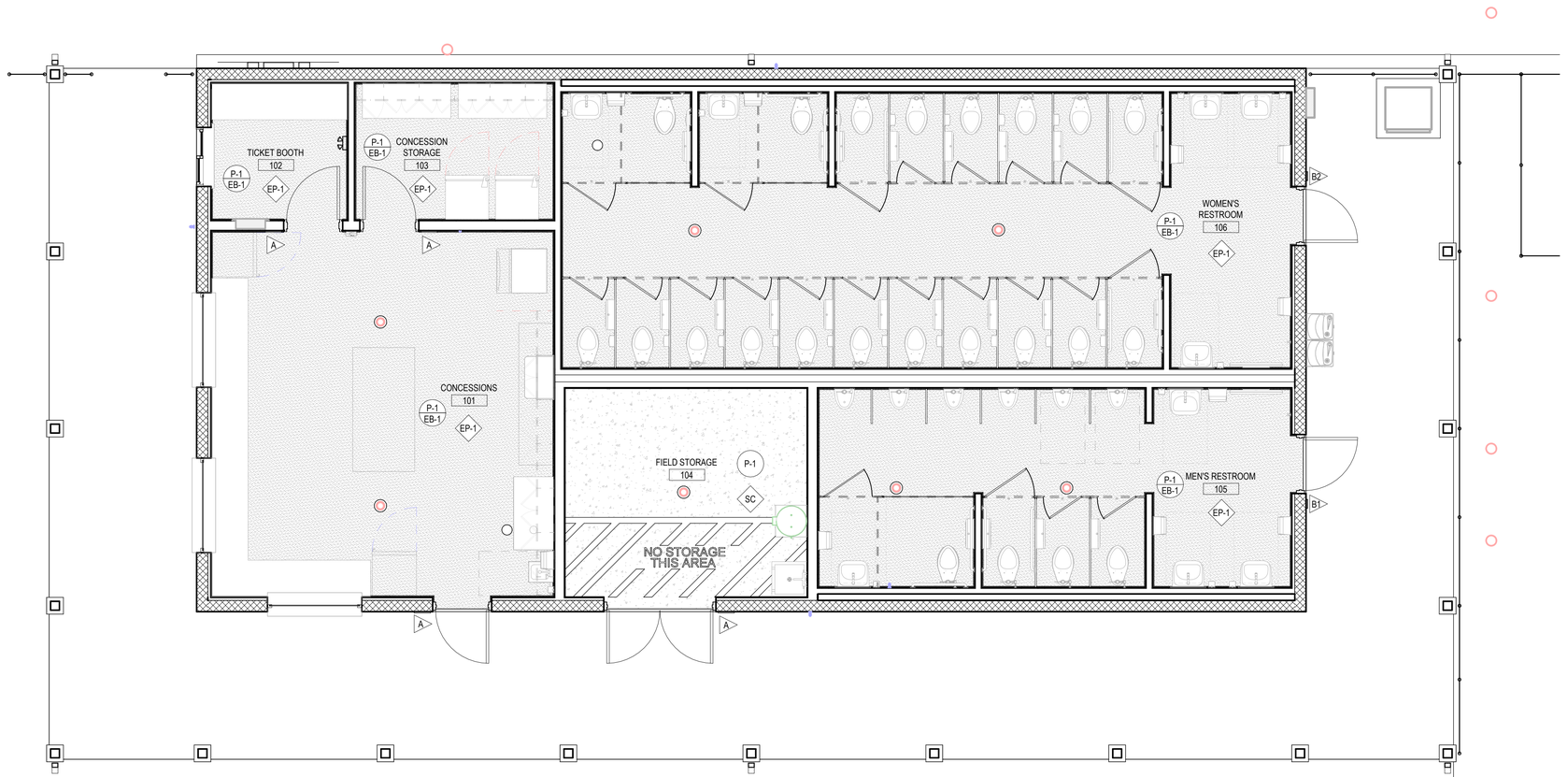
Project Number	**25025**
Dated	08.06.2025

CONCESSION DIMENSION PLAN

A-112

MATERIAL FINISH SCHEDULE

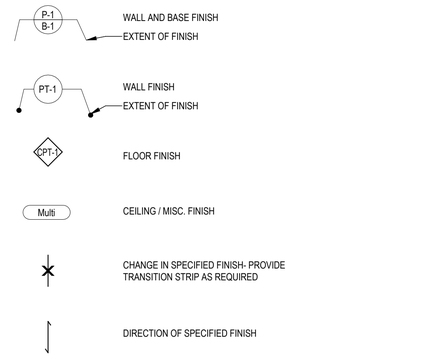
KEY	PRODUCT	MANUFACTURER	COLLECTION	COLOR	SIZE (in)	TYPE	COMMENTS
FLOORING							
EP-1	EPOXY FLOORING	SHERWIN-WILLIAMS	RESFLOR DECO QUARTZ DB23	SEASCAPE	-	QUARTZ AGGREGATES	-
SC	CONCRETE SEALER	CURECRETE	ASHFORD FORMULA	-	-	CURE-DENSIFIER-HARDENER	"NO STORAGE THIS AREA" STRIPING; P-5
EB-1	EPOXY COVE BASE	SHERWIN-WILLIAMS	EPOXY COVE BASE SYSTEM	MATCH EP-1	6"	-	-
P-5	PAINT	SHERWIN-WILLIAMS	-	GOLDFINCH SW6905	-	SATIN SHEEN	PORCH & FLOOR ENAMEL
WALLS							
P-1	PAINT	SHERWIN-WILLIAMS	-	PURE WHITE SW7005	-	SEMI-GLOSS SHEEN	PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY
P-2	PAINT	SHERWIN-WILLIAMS	-	UPWARD SW6239	-	SEMI-GLOSS SHEEN	PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY
P-4	PAINT	SHERWIN-WILLIAMS	-	ONLINE SW7072	-	SEMI-GLOSS SHEEN	PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY
CEILING							
P-1	PAINT	SHERWIN-WILLIAMS	-	PURE WHITE SW7005	-	EG-SHEL SHEEN	PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY
XP-1	PAINT	SHERWIN-WILLIAMS	-	PURE WHITE SW7005	-	SATIN SHEEN	EMERALD RAIN REFRESH EXTERIOR ACRYLIC LATEX PAINT
CASEWORK & MISC.							
P-2	PAINT	SHERWIN-WILLIAMS	-	UPWARD SW6239	-	SATIN SHEEN	PROCLASSIC WATERBORNE INTERIOR ACYLIC ENAMEL
QZ-1	QUARTZ	CORIAN	QUARTZ	CONCRETE CARRARA	0.75"	POLISHED	-
SS-1	STAINLESS STEEL	CLOPAY	-	STAINLESS STEEL	1.5"	-	COUNTERTOP PROVIDED BY ROLLING COUNTER DOOR MAUF.; REFER TO SPECS.



GENERAL NOTES - FINISH FLOOR PLAN

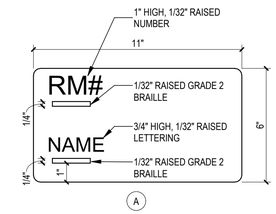
1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BEFORE PROCEEDING WITH ANY WORK IN QUESTION.
3. GYPSUM WALLS TO BE PAINTED, SHOULD BE PREPPED TO A LEVEL 4 FINISH WITH ONE PRIME COAT AND AT LEAST TWO PAINT COATS, OR AS REQUIRED BY MANUFACTURER.
4. REFER TO FINISH SCHEDULE ON THIS SHEET FOR PAINT FINISH.
5. ALL DOORS AND DOOR FRAMES ARE TO BE PAINTED P-4. EXTERIOR SIDE OF DOES TO BE BE PAINTED XP-4. PAINT SHOULD BE SEMI-GLOSS SHEEN, UNO.
6. FOR CEILING FINISHES, REFER TO REFLECTED CEILING PLAN ON A-114. ALL PAINTED GYP CEILINGS TO RECEIVE EG-SHEL SHEEN PAINT, UNO.
7. FOR ALL FINISHES INDICATED ON INTERIOR ELEVATIONS, REFER TO FINISH SCHEDULE THIS SHEET.
8. REFER TO FINISH SCHEDULE ON THIS SHEET FOR FINISHES.
9. ALL INTERIOR WALL AND CEILING PAINT TO BE EPOXY PAINT.
10. ALL FLOORING TRANSITIONS TO OCCUR AT THE CENTERLINE OF A DOOR OR OPENING, UNO.
11. ALL EXPOSED CONCRETE TO BE SEALED, UNO.

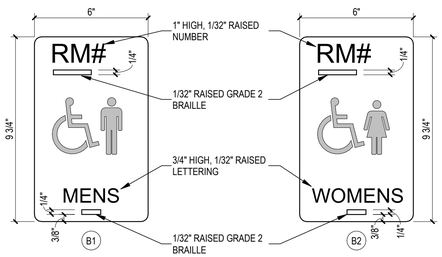
FINISH LEGEND



SIGNAGE TYPES

GENERAL NOTES:
1. ALL BRAILLE TO BE 1/4" HIGH & 1/32" RAISED.
2. ALL LETTERING TO BE 3/4" HIGH & 1/32" RAISED, UNLESS OTHERWISE NOTED.
3. ALL NUMBERS TO BE 1" HIGH & 1/32" RAISED.
4. SIGN BACKGROUND TO BE BLACK WITH CONTRASTING LETTERS.
5. COORDINATE FINALE ROOM NUMBERS AND NAMES WITH OWNER DURING SUBMITTALS.





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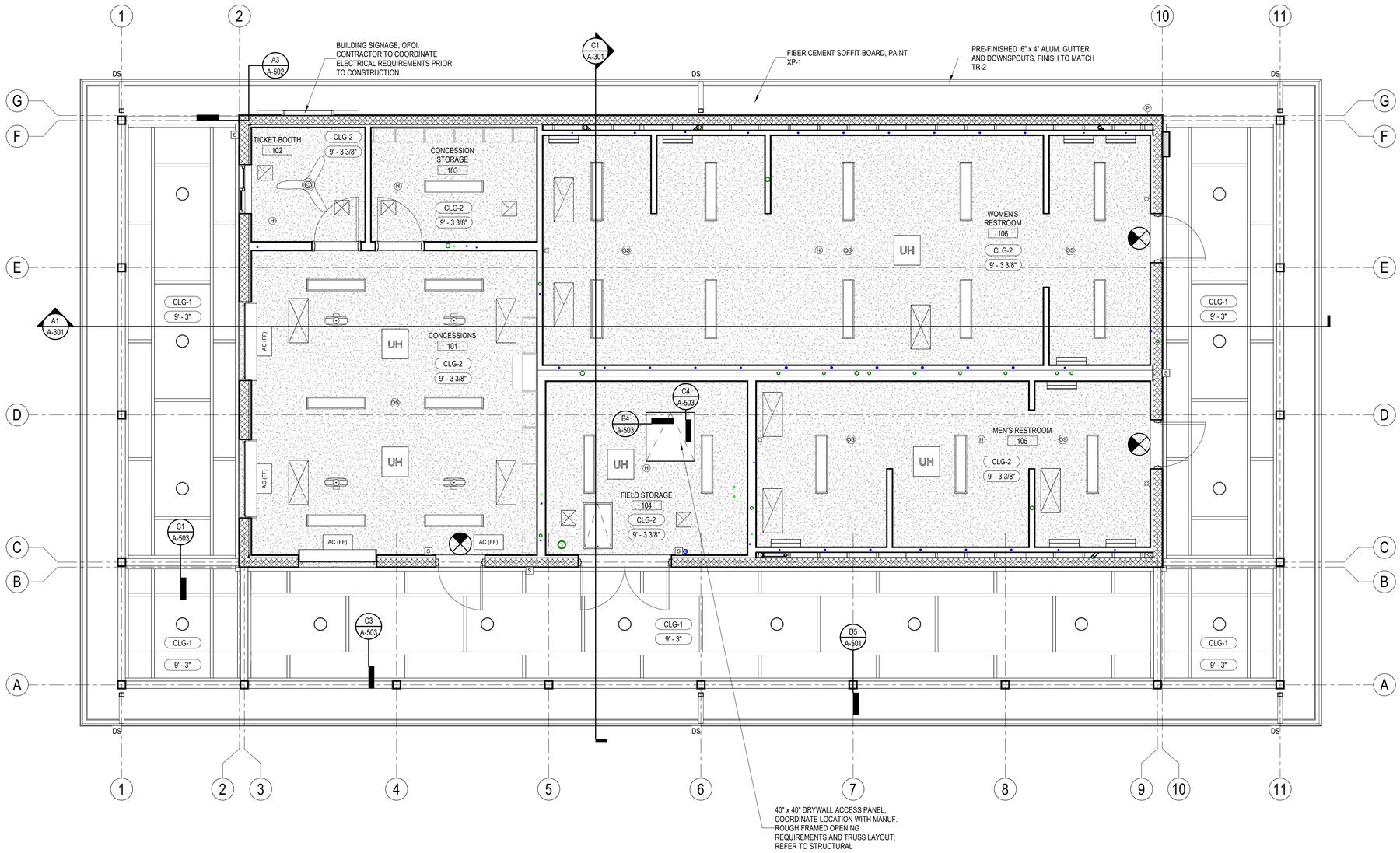
CONCESSION FINISH PLAN
A-113

A1 CONCESSION FINISH PLAN
SCALE: 1/4" = 1'-0"

NORTH



GENERAL NOTES - REFLECTED CEILING

1. CONTRACTORS SHALL COORDINATE ALL WORK, SHOWN OR UN-SHOWN, WITH ALL OTHER DISCIPLINES.
2. CONTRACTOR SHALL PROVIDE REINFORCING 2x WOOD BLOCKING BEHIND ALL CEILING MOUNTED EQUIPMENT.
3. REFER TO FINISH SCHEDULE ON A-113 FOR FINISHES AND ADDITIONAL INFORMATION.
4. ALL ACCESS PANEL SIZES AND LOCATIONS TO BE COORDINATED WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE SPRINKLER WORK.
5. CENTER LIGHTS WITHIN EACH ROOM, UNO.
6. REFER TO ELECTRICAL FOR LIGHTING FIXTURE SCHEDULE(S).
7. CEILING HEIGHTS NOTED REFERENCE ELEVATION ABOVE FINISH FLOOR OF ASSOCIATED BUILDING LEVEL.

RCP LEGEND

- LIGHT FIXTURES; REFER TO ELECTRICAL
- CEILING FAN WITH LIGHT KIT; REFER TO ELECTRICAL
- MECHANICAL DEVICES; REFER TO MECHANICAL
- CEILING - CLG-1
  FIBER CEMENT BOARD AND BATTEN ON EXTERIOR GRADE PLYWOOD ATTACHED TO THE UNDERSIDE OF ROOF TRUSSES, PAINT XP-1
- CEILING - CLG-2
  MOISTURE RESISTANT GYPSUM BOARD ATTACHED TO THE UNDERSIDE OF ROOF TRUSSES, PAINT P-1
- CLG-1 — CEILING TYPE
- 10'-0" — CEILING HEIGHT AFF DESIGNATION
- S — FIRE ALARM SYSTEM SIGNAL SPEAKER; REFER TO ELECTIRCAL
- FIRE ALARM SYSTEM STROBE; REFER TO ELECTIRCAL
- H — FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; REFER TO ELECTIRCAL
- EXIT LIGHT; REFER TO ELECTRICAL
- OS — OCCUPANCY SENSOR; REFER TO ELECTRICAL
- P — PHOTOCELL; REFER TO ELECTRICAL
- CEILING MOUNTED GARAGE FAN; REFER TO ELECTRICAL. COORDINATE FAN & OUTLET LOCATION WITH ROOF TRUSSES ABOVE. PROVIDE BLOCKING FOR FAN, DO NOT ATTACH FAN TO ROOF TRUSS.
- UH — UNIT HEATER; REFER TO MECHANICAL
- ATTIC ACCESS DOOR; BASIS OF DESIGN: ACUDOR UNIVERSAL FLUSH UF-5000-2236
- ATTIC ACCESS PANEL; BASIS OF DESIGN: BAUCO PLUS II - DRYWALL ACCESS PANEL

ALTERNATE #1

- AC (FF) — AIR CURTAIN (FLY FAN) ABOVE OPENING; REFER TO MECHANICAL

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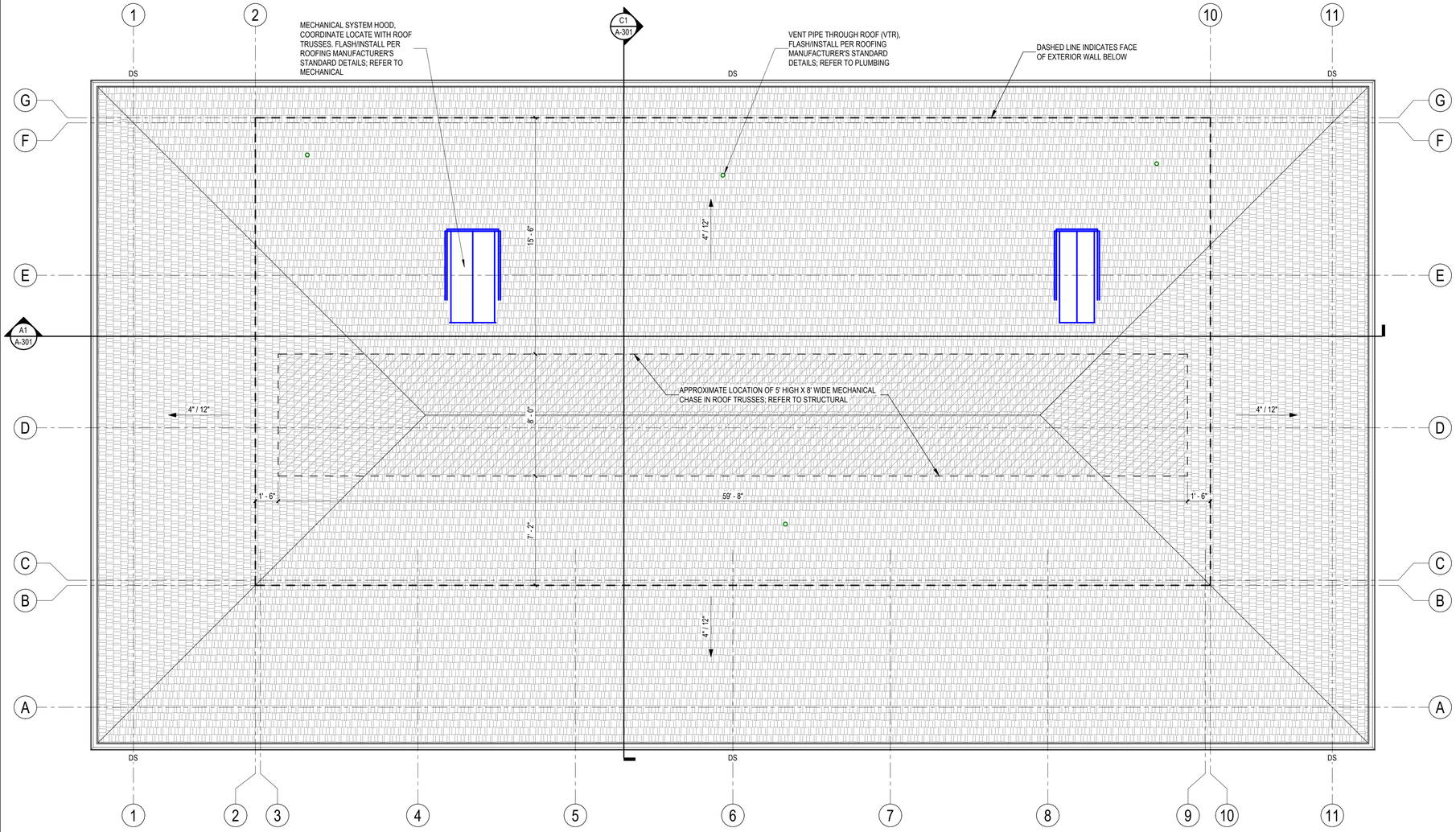
CONCESSION REFLECTED CEILING PLAN

A-114

A1 CONCESSION REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

NORTH



GENERAL NOTES - ROOF PLAN

1. SEE REVIEWED FINAL SHOP DRAWINGS FOR ALL FLASHING AND WATERPROOFING CONDITIONS PRIOR TO FABRICATION AND INSTALLATION.
2. ROOF SYSTEM DIMENSIONS, SHAPES, AND MEMBERS ARE FOR DESIGN INTENT ONLY. SEE REVIEWED FINAL ROOF SHOP DRAWINGS FOR SPECIFIC INFORMATION AND COORDINATION.
3. GENERAL CONTRACTOR SHALL COORDINATE ALL SYSTEMS PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
4. SEE OTHER DISCIPLINES FOR ROOF PENETRATIONS NOT SHOWN.

LEGEND

- ASPHALT SHINGLE ROOF SYSTEM
- OUTLINE OF BUILDING BELOW
- MECHANICAL EQUIPMENT; REFER TO MECHANICAL

A1 ROOF PLAN
SCALE: 1/4" = 1'-0"

NORTH

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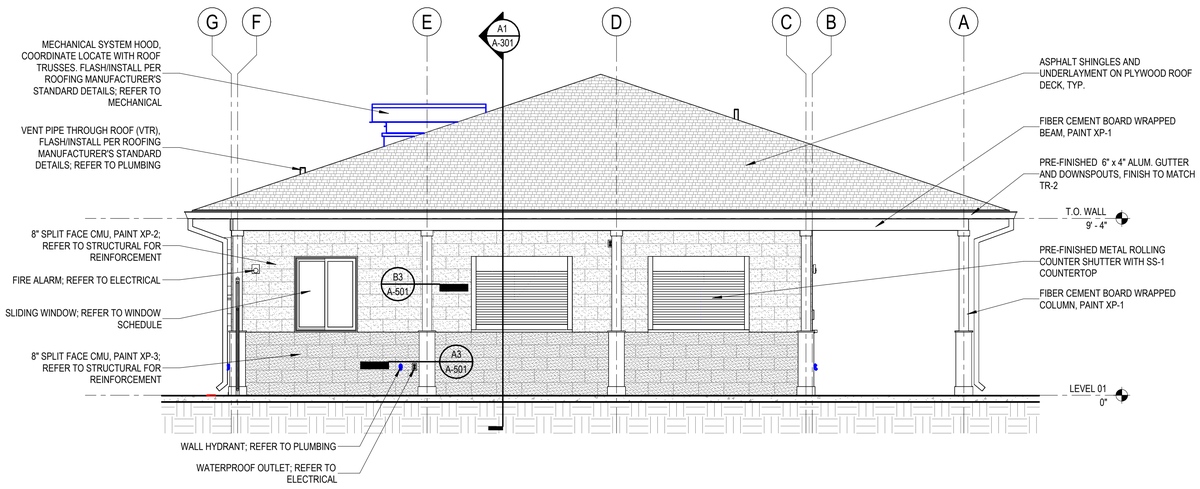
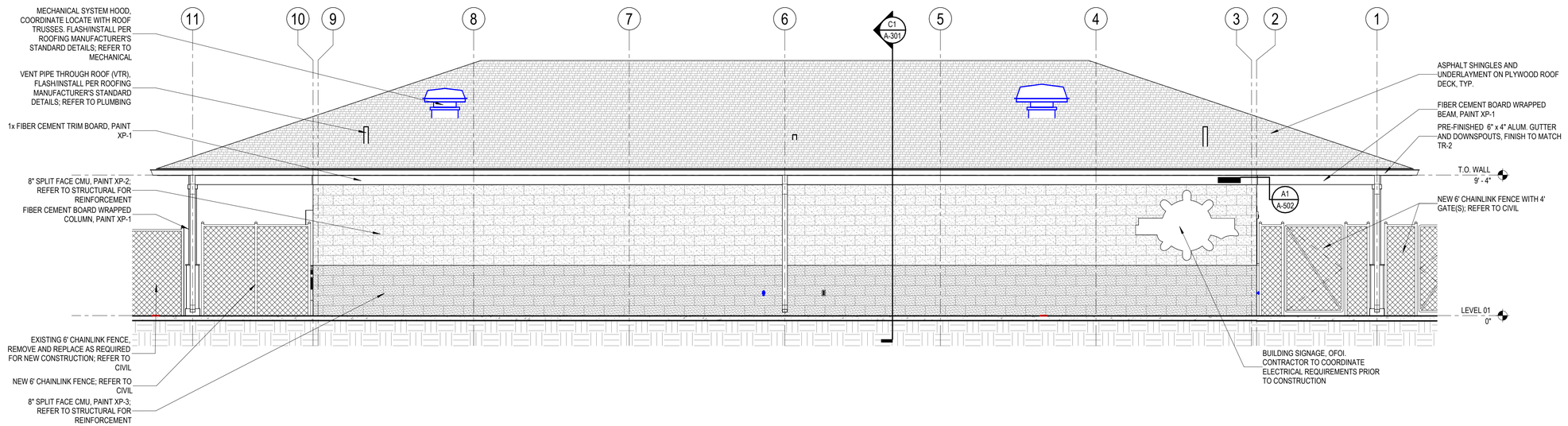
ROOF PLAN
A-141



C1 WEST ELEVATION
SCALE: 1/4" = 1'-0"



A1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTES - BUILDING ELEVATION

1. CONTRACTOR SHALL PROVIDE THE ARCHITECT / OWNER SAMPLES OF ALL EXTERIOR FINISHES FOR APPROVAL.
2. SEE REVIEWED FINAL SHOP DRAWINGS FOR ALL FLASHING AND WATERPROOFING CONDITIONS AT THE BUILDING ENVELOPE PRIOR TO FABRICATION AND INSTALLATION.
3. SEE STRUCTURE FOR DESIGN PRESSURES REQUIRED FOR EXTERIOR CLADDING COMPONENTS.
4. ROOF SYSTEM DIMENSIONS, SHAPES, AND MEMBERS ARE FOR DESIGN INTENT ONLY. SEE REVIEWED FINAL ROOF SHOP DRAWINGS FOR SPECIFIC INFORMATION AND COORDINATION.
5. REFER TO A-601 FOR DOOR AND WINDOW SCHEDULES AND ADDITIONAL INFORMATION.
6. GENERAL CONTRACTOR SHALL COORDINATE ALL SYSTEMS PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
7. ITEMS NOTED ARE TYPICAL EXAMPLES, EVERY INSTANCE MAY NOT BE NOTED OR TAGGED.
8. SEE ELECTRICAL FOR EXTERIOR LIGHTING FIXTURE AND DEVICE SCHEDULE(S).
9. DIMENSIONS SHOWN ARE REFERENCED TO FACE OF EXTERIOR FINISHES.
10. LANDSCAPE NOT SHOWN, REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
11.

EXTERIOR FINISH LEGEND

XP-1	TYPE:	EXTERIOR ACRYLIC LATEX PAINT
	MANUF:	SHERWAIN-WILLIAMS
	PRODUCT:	EMERALD RAIN REFRESH
	COLOR:	SW7005 PURE WHITE
	FINISH:	SATIN
	NOTES:	ALL CEMENTITIOUS TRIM, BOARD AND BATTENS, AND COLUMN WRAPS
XP-2	TYPE:	SELF-CLEANING ACRYLIC COATING
	MANUF:	SHERWIN-WILLIAMS
	PRODUCT:	LOXON
	COLOR:	SW6239 UPWARD
	FINISH:	SATIN
	NOTES:	CMU SPLIT-FACE BLOCK FROM 40" A.F.F. TO CEILING
XP-3	TYPE:	SELF-CLEANING ACRYLIC COATING
	MANUF:	SHERWIN-WILLIAMS
	PRODUCT:	LOXON
	COLOR:	SW6243 DISTANCE
	FINISH:	SATIN
	NOTES:	CMU SPLIT-FACE BLOCK FROM SLAB TO 40" A.F.F.
XP-4	TYPE:	EXTERIOR ACRYLIC LATEX PAINT
	MANUF:	SHERWAIN-WILLIAMS
	PRODUCT:	EMERALD RAIN REFRESH
	COLOR:	SW7072 ONLINE
	FINISH:	SEMI-GLOSS
	NOTES:	EXTERTIOR FACE OF HOLLOW METAL DOOR AND FRAME AND ROLLING COUNTER DOOR
EP-1	TYPE:	HIGH PERFORMANCE COATING (HPC)
	MANUF:	TNEMEC
	COLOR:	MATCH TR-1
	FINISH:	SATIN
	NOTES:	ALL EXPOSED EXTERIOR COLUMNS
TR-1	TYPE:	PRE-FINISHED ALUMINUM PRIVACY SCREEN
	COLOR:	POWDER COAT WHITE, SATIN SHEEN
TR-2	TYPE:	PRE-FINISHED METAL DRIP EDGE
	COLOR:	CUSTOM TO MATCH SW7005 PURE WHITE

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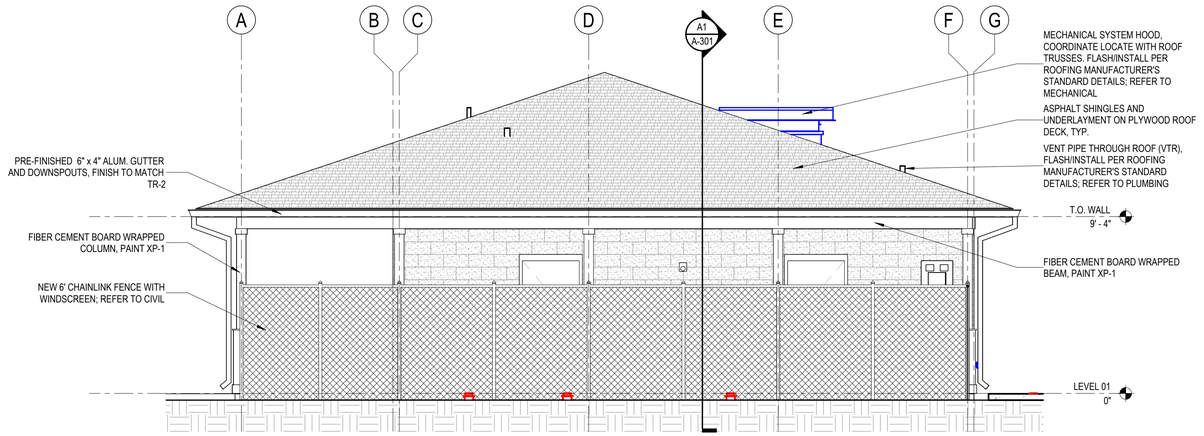
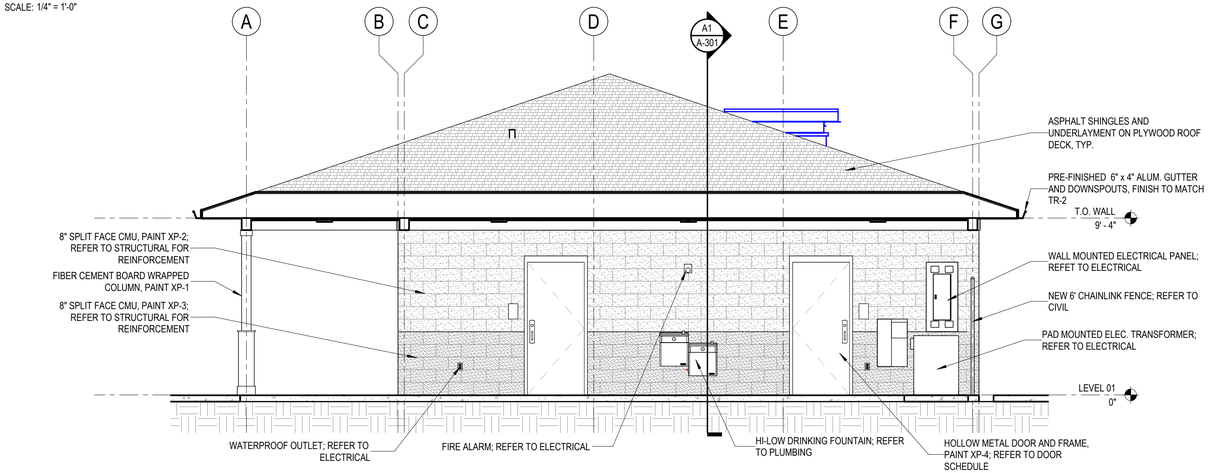
EXTERIOR ELEVATIONS
A-210



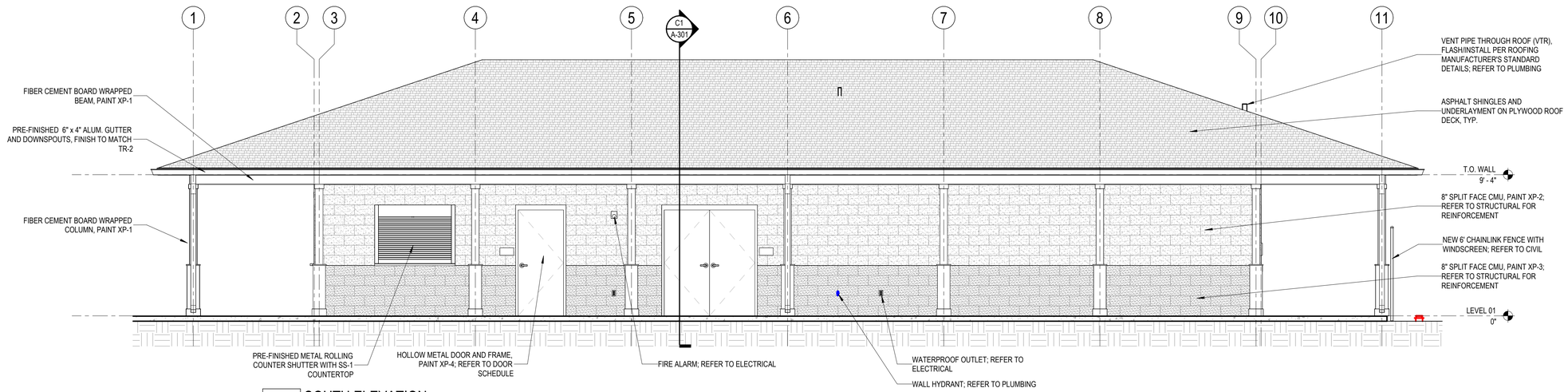
C1 EAST ELEVATION W/ PRIVACY SCREEN

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



B1 EAST ELEVATION W/O PRIVACY SCREEN

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



A1 SOUTH ELEVATION

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

GENERAL NOTES - BUILDING ELEVATION

1. CONTRACTOR SHALL PROVIDE THE ARCHITECT / OWNER SAMPLES OF ALL EXTERIOR FINISHES FOR APPROVAL.
2. SEE REVIEWED FINAL SHOP DRAWINGS FOR ALL FLASHING AND WATERPROOFING CONDITIONS AT THE BUILDING ENVELOPE PRIOR TO FABRICATION AND INSTALLATION.
3. SEE STRUCTURE FOR DESIGN PRESSURES REQUIRED FOR EXTERIOR CLADDING COMPONENTS.
4. ROOF SYSTEM DIMENSIONS, SHAPES, AND MEMBERS ARE FOR DESIGN INTENT ONLY. SEE REVIEWED FINAL ROOF SHOP DRAWINGS FOR SPECIFIC INFORMATION AND COORDINATION.
5. REFER TO A-601 FOR DOOR AND WINDOW SCHEDULES AND ADDITIONAL INFORMATION.
6. GENERAL CONTRACTOR SHALL COORDINATE ALL SYSTEMS PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
7. ITEMS NOTED ARE TYPICAL EXAMPLES, EVERY INSTANCE MAY NOT BE NOTED OR TAGGED.
8. SEE ELECTRICAL FOR EXTERIOR LIGHTING FIXTURE AND DEVICE SCHEDULE(S).
9. DIMENSIONS SHOWN ARE REFERENCED TO FACE OF EXTERIOR FINISHES.
10. LANDSCAPE NOT SHOWN, REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
11.

EXTERIOR FINISH LEGEND

XP-1	TYPE:	EXTERIOR ACRYLIC LATEX PAINT
	MANUF:	SHERWAIN-WILLIAMS
	PRODUCT:	EMERALD RAIN REFRESH
	COLOR:	SW7005 PURE WHITE
	FINISH:	SATIN
	NOTES:	ALL CEMENTITIOUS TRIM, BOARD AND BATTENS, AND COLUMN WRAPS
XP-2	TYPE:	SELF-CLEANING ACRYLIC COATING
	MANUF:	SHERWIN-WILLIAMS
	PRODUCT:	LOXON
	COLOR:	SW6239 UPWARD
	FINISH:	SATIN
	NOTES:	CMU SPLIT-FACE BLOCK FROM 40" A.F.F. TO CEILING
XP-3	TYPE:	SELF-CLEANING ACRYLIC COATING
	MANUF:	SHERWIN-WILLIAMS
	PRODUCT:	LOXON
	COLOR:	SW6243 DISTANCE
	FINISH:	SATIN
	NOTES:	CMU SPLIT-FACE BLOCK FROM SLAB TO 40" A.F.F.
XP-4	TYPE:	EXTERIOR ACRYLIC LATEX PAINT
	MANUF:	SHERWAIN-WILLIAMS
	PRODUCT:	EMERALD RAIN REFRESH
	COLOR:	SW7072 ONLINE
	FINISH:	SEMI-GLOSS
	NOTES:	EXTERTIOR FACE OF HOLLOW METAL DOOR AND FRAME AND ROLLING COUNTER DOOR
EP-1	TYPE:	HIGH PERFORMANCE COATING (HPC)
	MANUF:	TNEMEC
	COLOR:	MATCH TR-1
	FINISH:	SATIN
	NOTES:	ALL EXPOSED EXTERIOR COLUMNS
TR-1	TYPE:	PRE-FINISHED ALUMINUM PRIVACY SCREEN
	COLOR:	POWDER COAT WHITE, SATIN SHEEN
TR-2	TYPE:	PRE-FINISHED METAL DRIP EDGE
	COLOR:	CUSTOM TO MATCH SW7005 PURE WHITE

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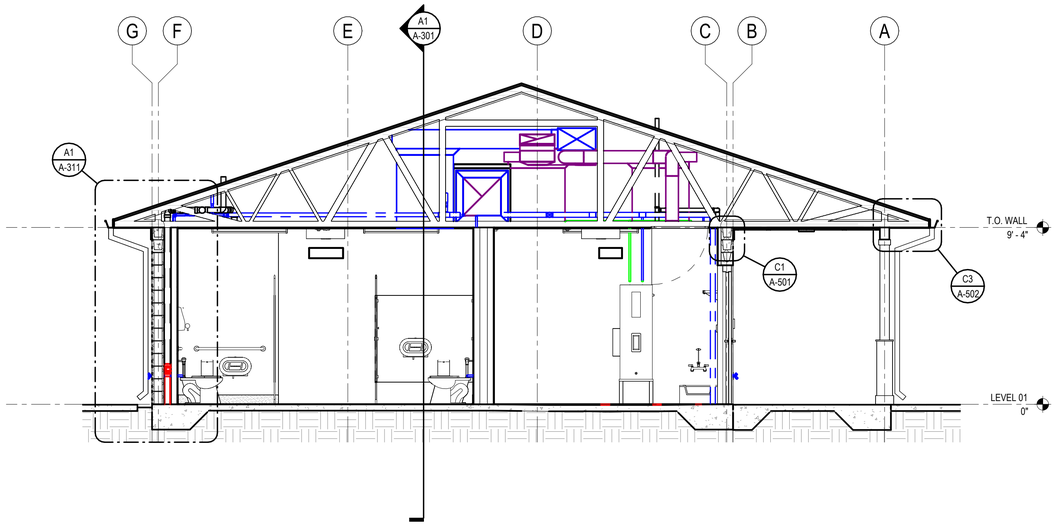
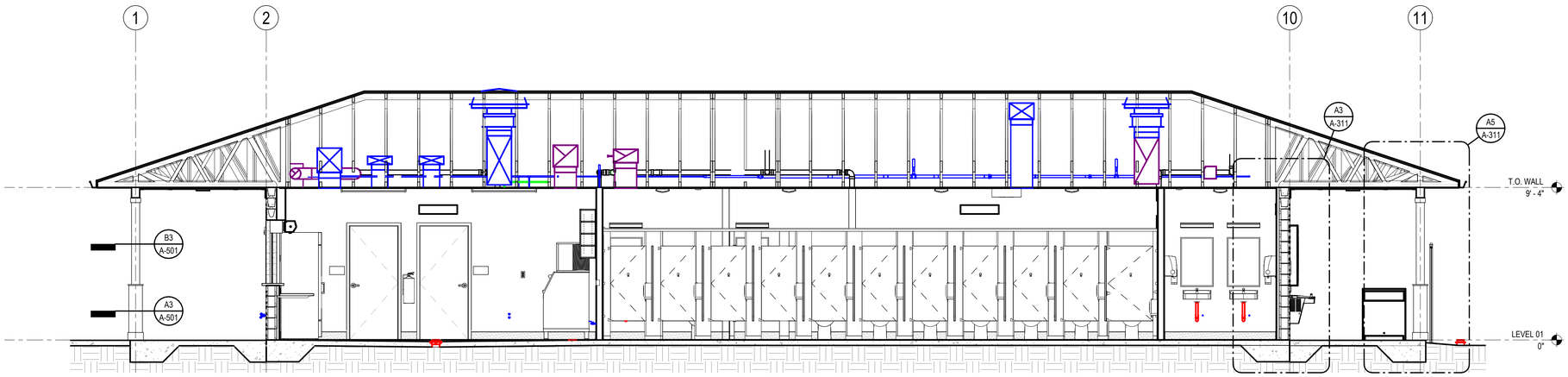
EXTERIOR ELEVATIONS

A-211



C1 NORTH-SOUTH BUILDING SECTION
SCALE: 1/4" = 1'-0"



A1 EAST-WEST BUILDING SECTION
SCALE: 1/4" = 1'-0"

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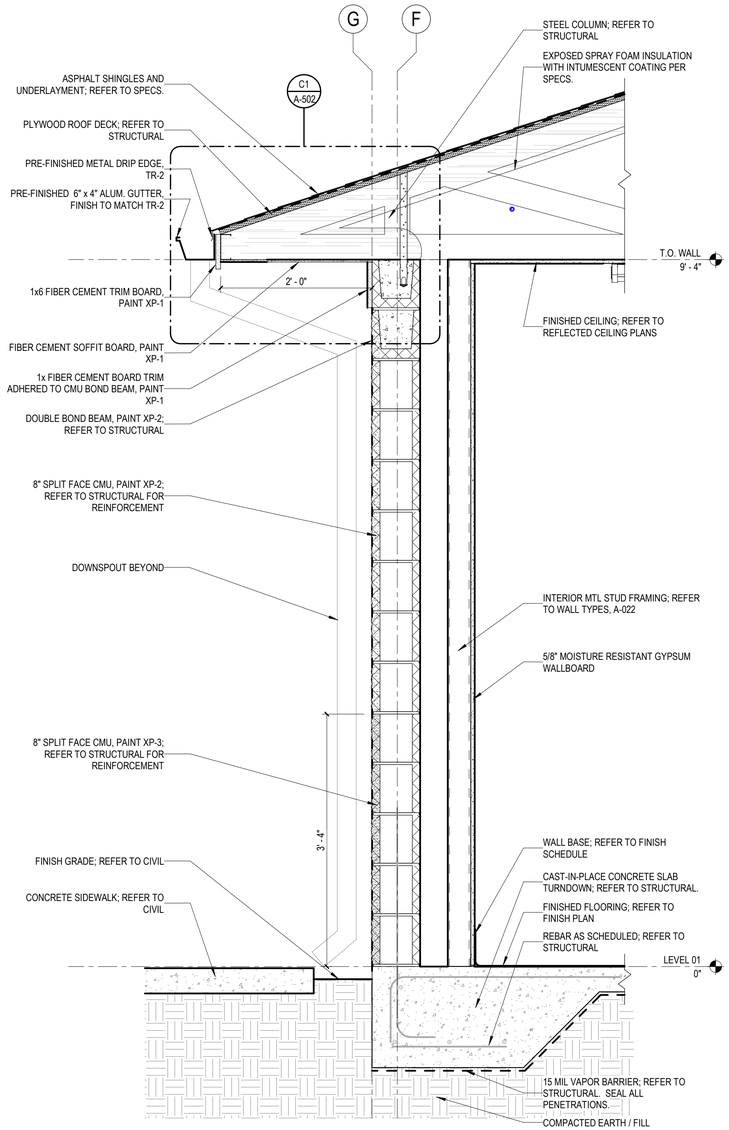
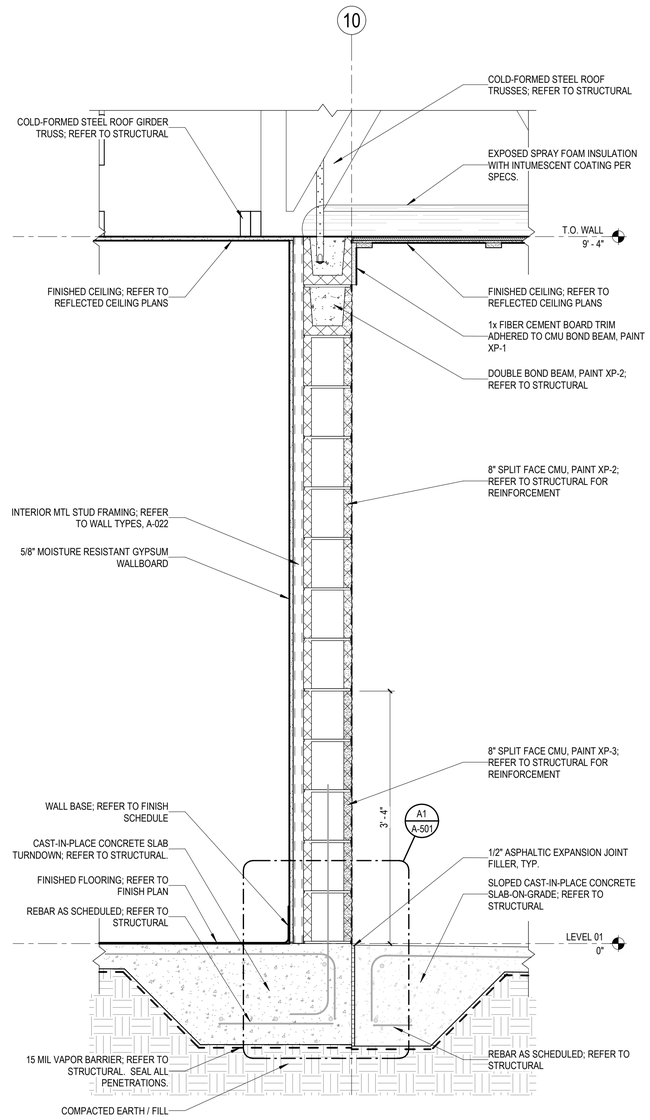
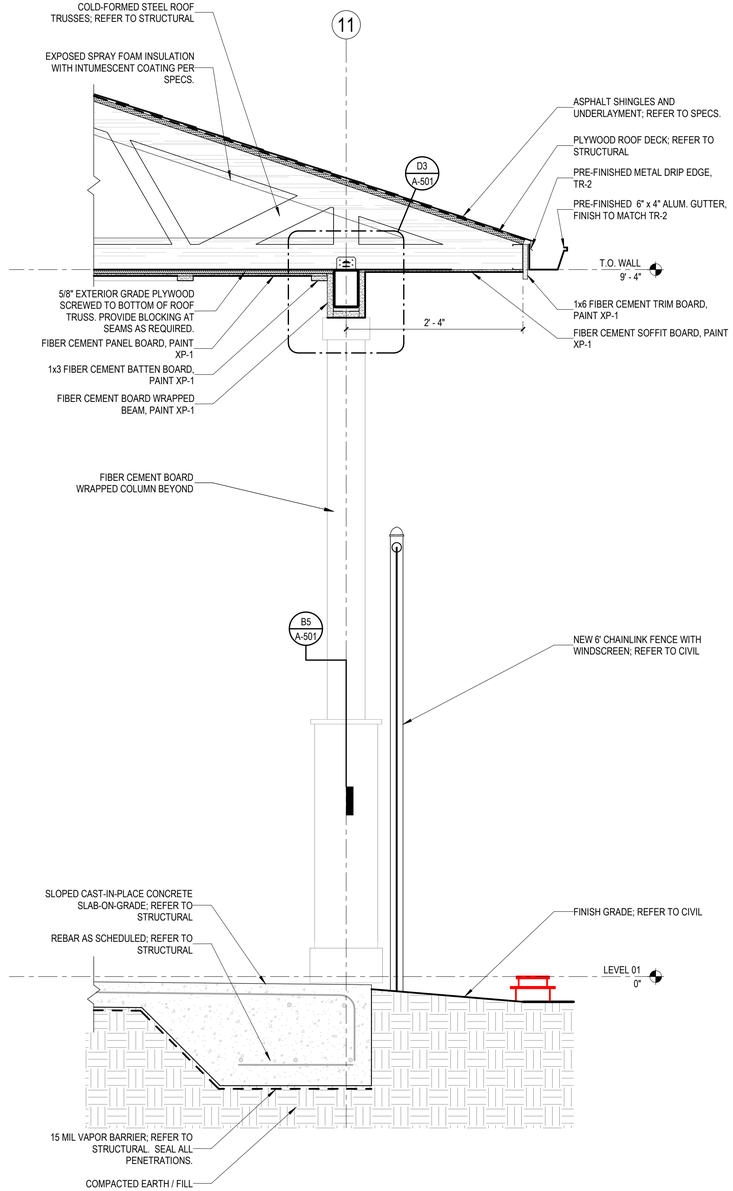
BUILDING
SECTIONS
A-301



A1 WALL SECTION @ NORTH WALL - WOMEN'S RESTROOM 106
SCALE: 1" = 1'-0"



A3 WALL SECTION @ EAST WALL - MEN'S RESTROOM 105
SCALE: 1" = 1'-0"



A5 WALL SECTION @ PRIVACY SCREEN
SCALE: 1" = 1'-0"

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BLEACHERS & CONCESSION BUILDING

1 BUCCANEER DRIVE
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REVISIONS
NO. DESCRIPTION *DATE*

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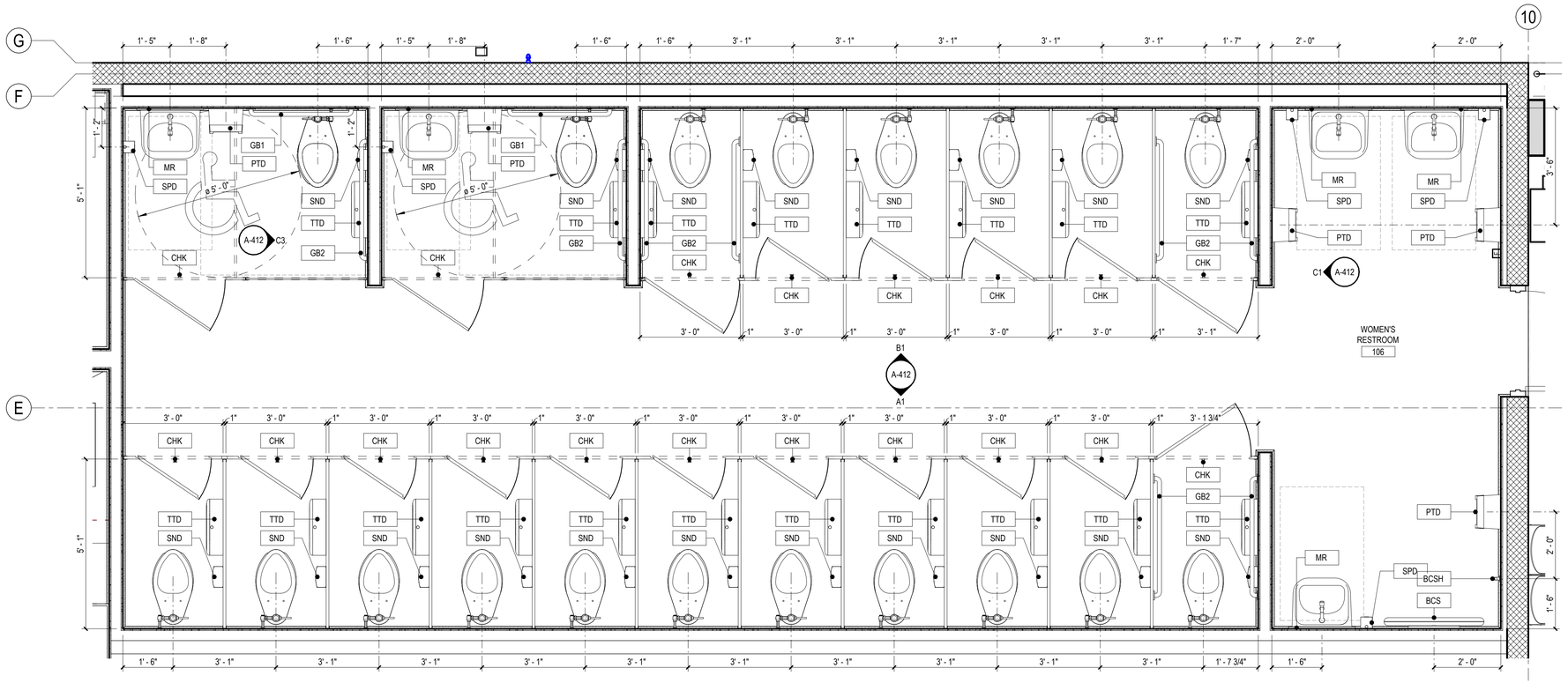
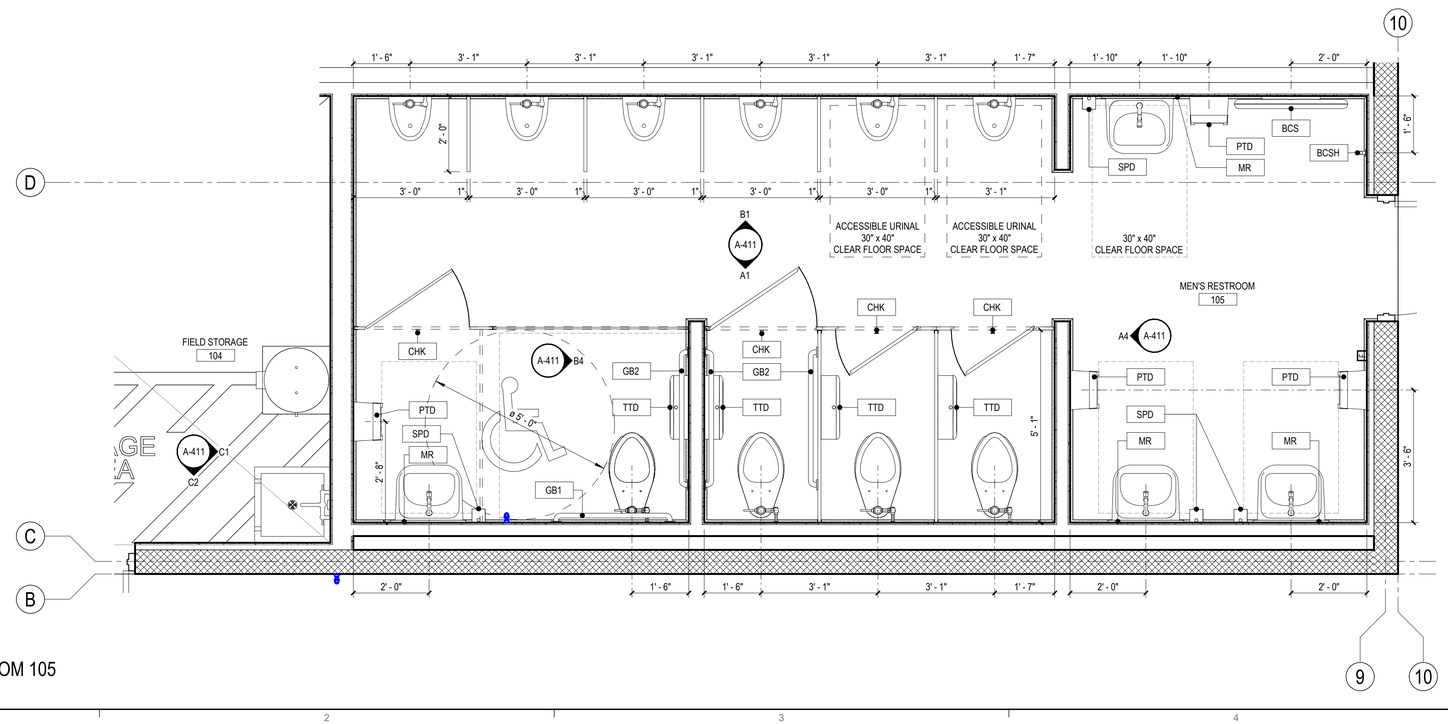
WALL SECTIONS
A-311



C1 ENLARGED PLAN - WOMEN'S RESTROOM 106

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



A1 ENLARGED PLAN - MEN'S RESTROOM 105

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

GENERAL NOTES - ENLARGED PLANS

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. THE CONTRACTOR SHALL PROVIDE REINFORCING 2x WOOD BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT. COORDINATE WITH A / V, DATA, CASEWORK, FURNITURE, ELECTRICAL, AND INTERIOR ELEVATION DRAWINGS.
3. INTERIOR DOORS TO BE LOCATED MIN 6" FROM ADJACENT STUD PARTITIONS AND 8" FROM ADJACENT MASONRY PARTITIONS, UNLESS DIMENSIONED OR NOTED OTHERWISE.
4. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND ALL OTHER DISCIPLINES.
5. REFER TO FINISH SCHEDULE ON A-113 FOR FINISHES.
6. REFER TO A-022 SERIES SHEETS FOR ADDITIONAL INFORMATION ON INTERIOR PARTITION TYPE ASSEMBLIES.
7. REFER TO A-411 FOR TOILET ACCESSORY SCHEDULE.
8. PROVIDE 1/8" / FT MIN SLOPE TOWARDS ALL FLOOR DRAINS, UNO.

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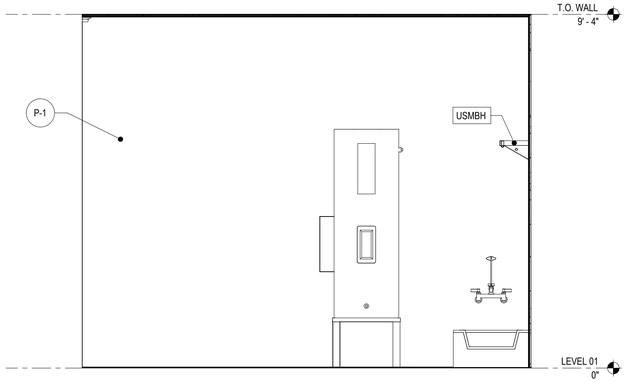
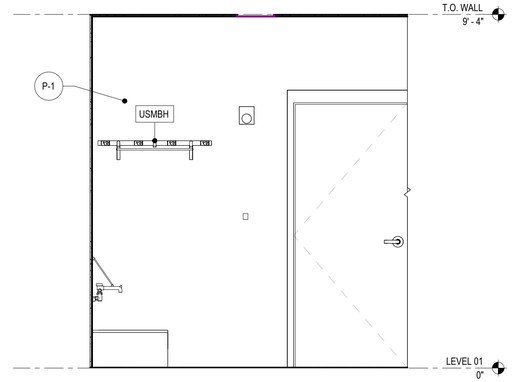
ENLARGED PLANS

A-401



C1 ELEVATION - FIELD STORAGE 104 EAST
SCALE: 1/2" = 1'-0"



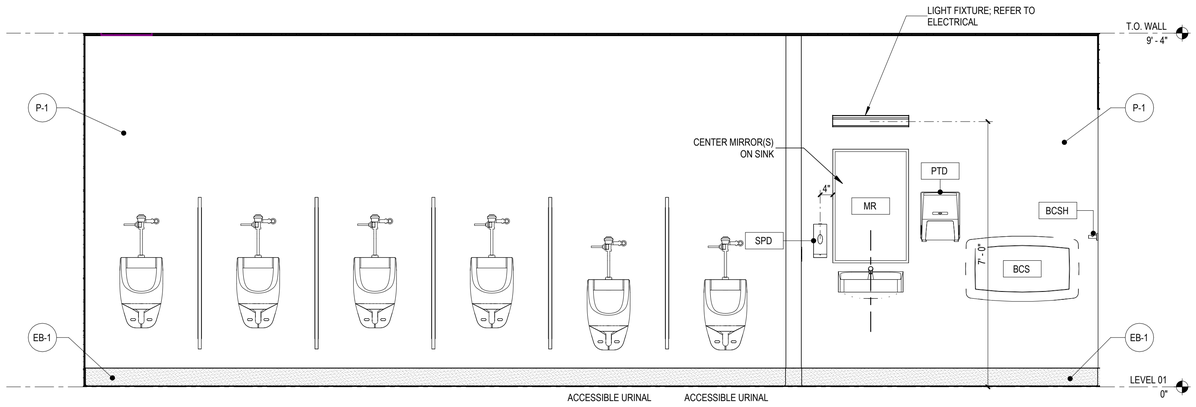
C2 ELEVATION - FIELD STORAGE 104 SOUTH
SCALE: 1/2" = 1'-0"

TOILET ACCESSORY SCHEDULE

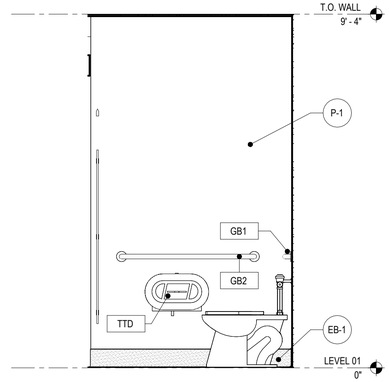
ID	DESCRIPTION	MANUF	MODEL	COMMENTS
BCS	BABY CHANGING STATION	KOALA KARE	KB300-01	
BCSH	STAINLESS BAG HOOK	KOALA KARE	310-54-KIT	
CHK	STAINLESS STEEL COAT HOOK	BOBRICK WASHROOM EQUIPMENT, INC.	B-233	CENTER HOOK ON TOILET COMPARTMENT DOOR
GB1	36" STRAIGHT PEENED GRAB BAR	BOBRICK WASHROOM EQUIPMENT, INC.	B-6806x36.99	
GB2	42" STRAIGHT PEENED GRAB BAR	BOBRICK WASHROOM EQUIPMENT, INC.	B-6806x42.99	
MR	WELDED FRAME MIRROR	BOBRICK WASHROOM EQUIPMENT, INC.	B-290 2436	
PTD	PAPER TOWEL DISPENSER	OWNER FURNISHED OWNER INSTALLED	OWNER FURNISHED OWNER INSTALLED	
SND	SANITARY NAPKIN DISPOSAL	BOBRICK WASHROOM EQUIPMENT, INC.	B-270	
SPD	SOAP DISPENSER	OWNER FURNISHED OWNER INSTALLED	OWNER FURNISHED OWNER INSTALLED	
TTD	TOILET TISSUE DISPENSER	OWNER FURNISHED OWNER INSTALLED	OWNER FURNISHED OWNER INSTALLED	
USMBH	UTILITY SHELF W/ RAG HOOKS & MOP/BROOM HOLDERS	BOBRICK WASHROOM EQUIPMENT, INC.	B-224	

GENERAL NOTES - INTERIOR ELEVATIONS

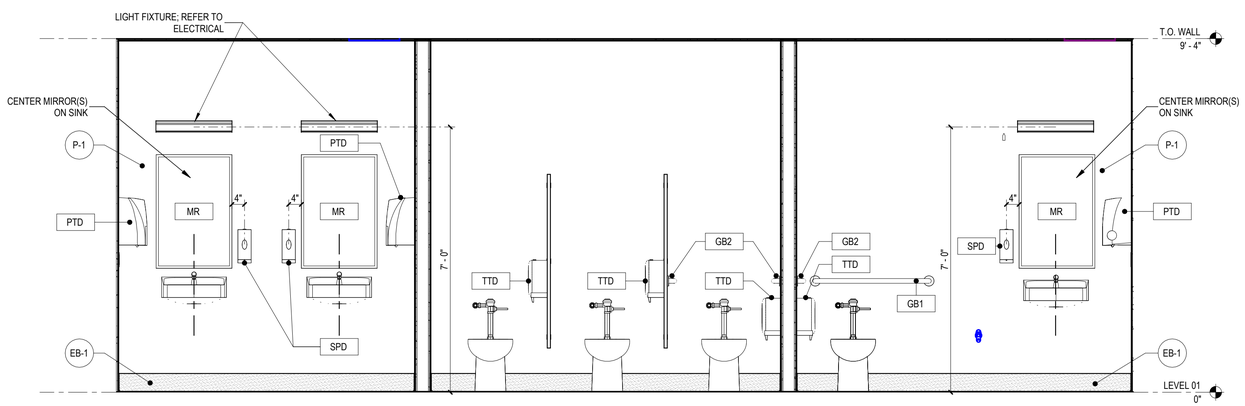
1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. CONTRACTORS SHALL PROVIDE REINFORCING 2x WOOD BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED ITEMS, AS NEEDED. COORDINATE WITH A/V, DATA, AND ELECTRICAL DRAWINGS.
3. CONTRACTORS TO COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AS NEEDED.
4. REFER TO SHEET A-113 FOR FINISH SCHEDULE.
5. REFER TO SHEET G-002 FOR STANDARD MOUNTING HEIGHTS.
6. ALL GAPS BETWEEN CASEWORK AND WALLS TO RECEIVE INFILL PANELS TO MATCH ADJACENT CASEWORK.
7. REFER TO TOILET ACCESSORY SCHEDULE FOR ADDITIONAL INFORMATION, A-411. REFER TO ENLARGED PLANS FOR ADDITIONAL TOILET ACCESSORIES, A-401.



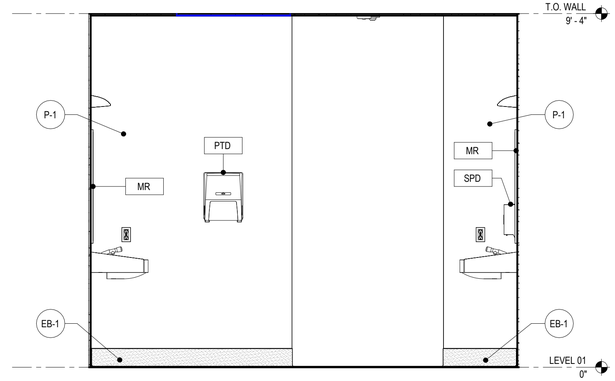
B1 ELEVATION - MEN'S RESTROOM 105 NORTH
SCALE: 1/2" = 1'-0"



B4 ELEVATION - MEN'S RESTROOM 105 (ACCESSIBLE STALL) EAST
SCALE: 1/2" = 1'-0"



A1 ELEVATION - MEN'S RESTROOM 105 SOUTH
SCALE: 1/2" = 1'-0"



A4 ELEVATION - MEN'S RESTROOM 105 (LAVATORY) WEST
SCALE: 1/2" = 1'-0"

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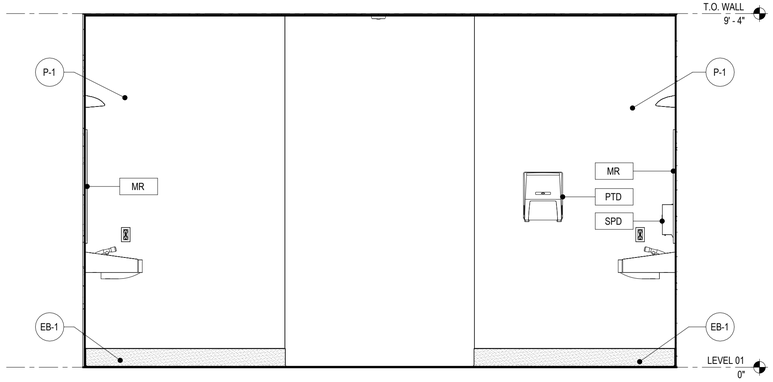
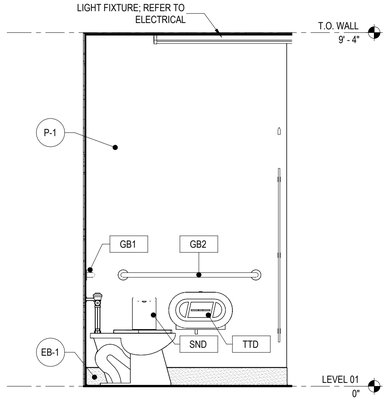
INTERIOR ELEVATIONS

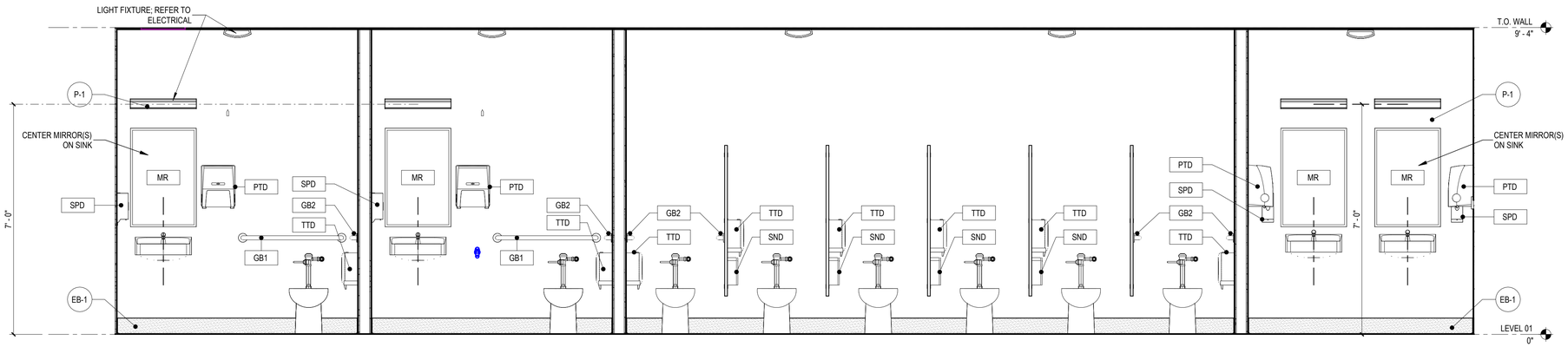
A-411



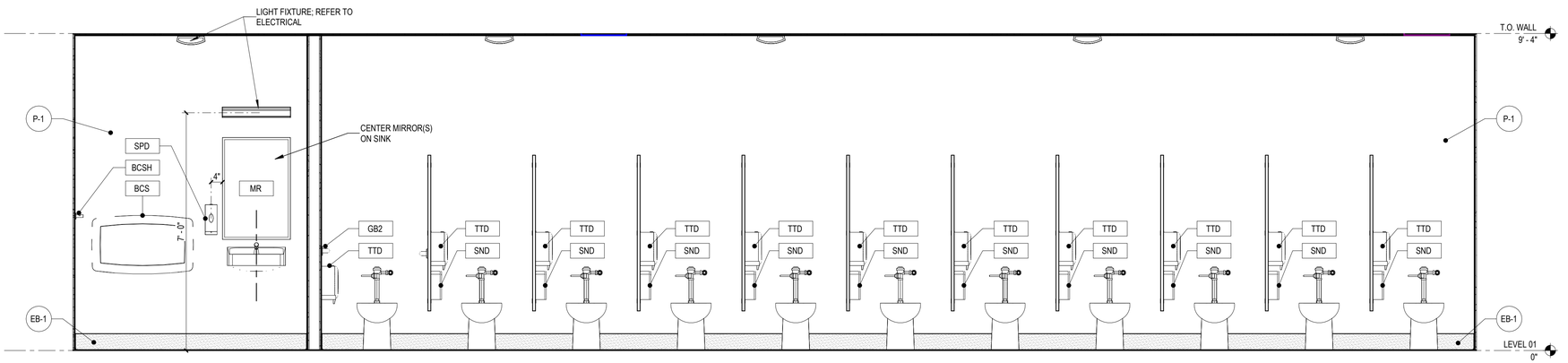
C1 ELEVATION - WOMEN'S RESTROOM 106 (LAVATORY) WEST
SCALE: 1/2" = 1'-0"



C3 ELEVATION - WOMEN'S RESTROOM 106 (ACESSIBLE STALL) EAST
SCALE: 1/2" = 1'-0"



B1 ELEVATION - WOMEN'S RESTROOM 106 NORTH
SCALE: 1/2" = 1'-0"



A1 ELEVATION - WOMEN'S RESTROOM 106 SOUTH
SCALE: 1/2" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
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3. CONTRACTORS TO COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AS NEEDED.
4. REFER TO SHEET A-113 FOR FINISH SCHEDULE.
5. REFER TO SHEET G-002 FOR STANDARD MOUNTING HEIGHTS.
6. ALL GAPS BETWEEN CASEWORK AND WALLS TO RECEIVE INFILL PANELS TO MATCH ADJACENT CASEWORK.
7. REFER TO TOILET ACCESSORY SCHEDULE FOR ADDITIONAL INFORMATION, A-411. REFER TO ENLARGED PLANS FOR ADDITIONAL TOILET ACCESSORIES, A-401.

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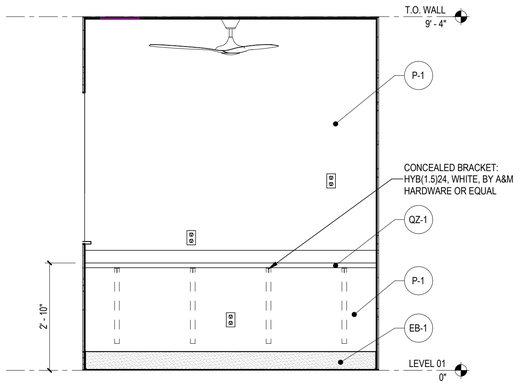
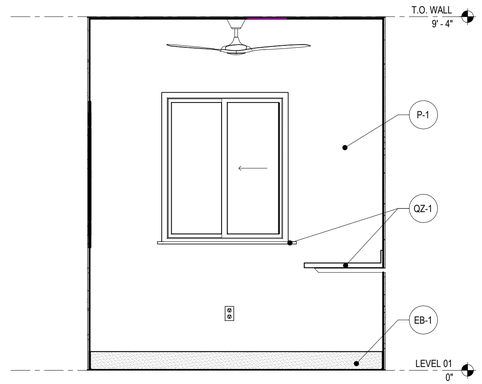
INTERIOR ELEVATIONS
A-412



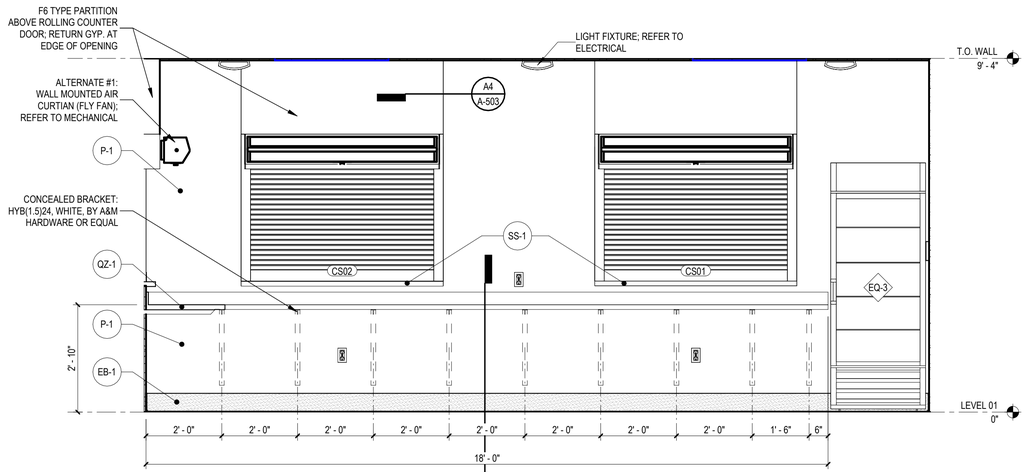
C1 ELEVATION - TICKET BOOTH 102 NORTH
SCALE: 1/2" = 1'-0"



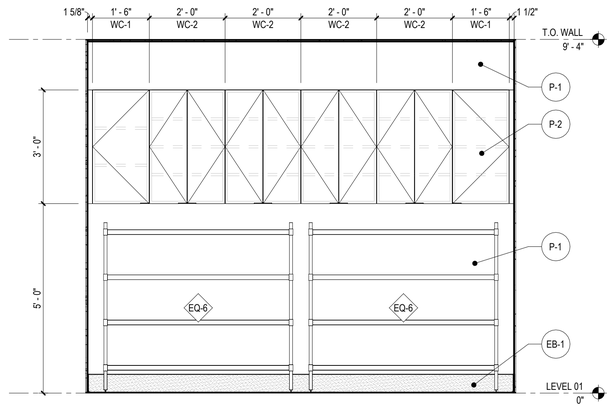
C2 ELEVATION - TICKET BOOTH 102 WEST
SCALE: 1/2" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

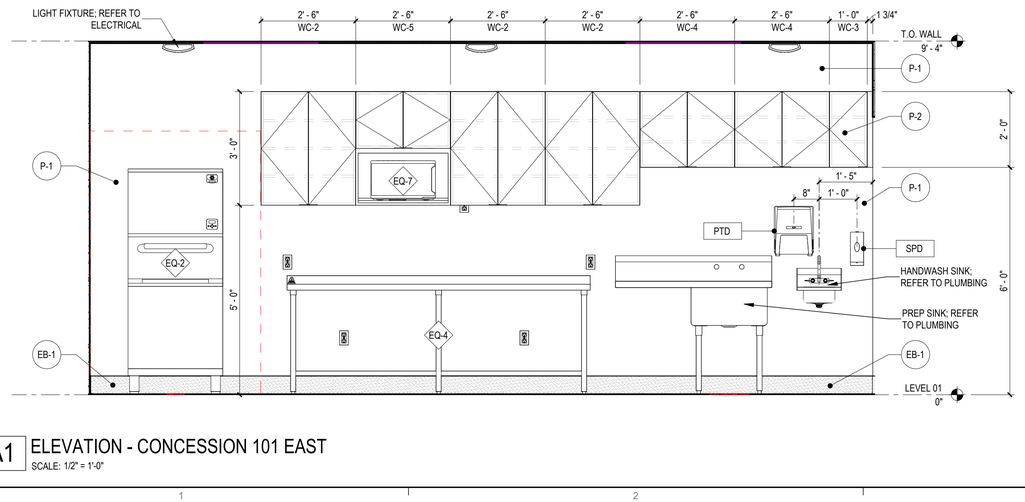
1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. CONTRACTORS SHALL PROVIDE REINFORCING 2x WOOD BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED ITEMS, AS NEEDED. COORDINATE WITH A/V, DATA, AND ELECTRICAL DRAWINGS.
3. CONTRACTORS TO COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AS NEEDED.
4. REFER TO SHEET A-113 FOR FINISH SCHEDULE.
5. REFER TO SHEET G-002 FOR STANDARD MOUNTING HEIGHTS.
6. ALL GAPS BETWEEN CASEWORK AND WALLS TO RECEIVE INFILL PANELS TO MATCH ADJACENT CASEWORK.
7. REFER TO TOILET ACCESSORY SCHEDULE FOR ADDITIONAL INFORMATION, A-411. REFER TO ENLARGED PLANS FOR ADDITIONAL TOILET ACCESSORIES, A-401.



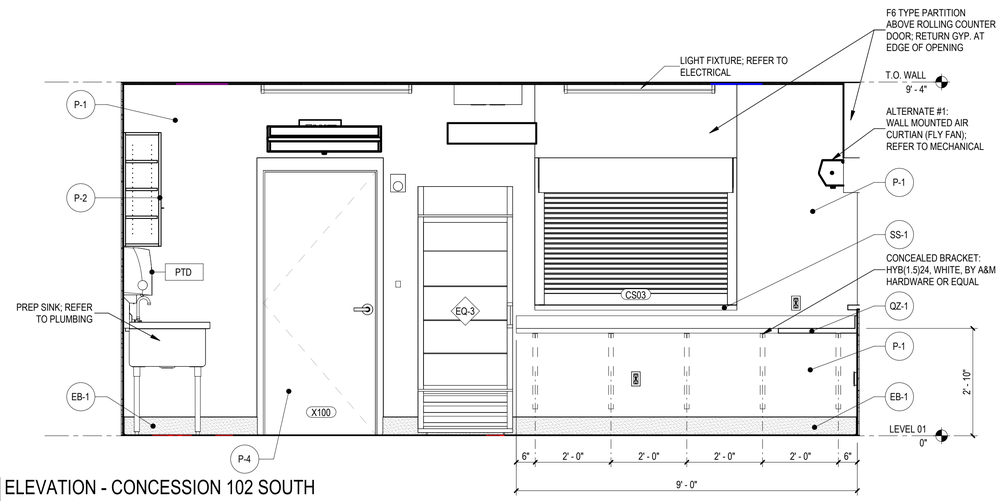
B1 ELEVATION - CONCESSION 101 WEST
SCALE: 1/2" = 1'-0"



B3 ELEVATION - CONCESSION STORAGE 103 NORTH
SCALE: 1/2" = 1'-0"



A1 ELEVATION - CONCESSION 101 EAST
SCALE: 1/2" = 1'-0"



A3 ELEVATION - CONCESSION 102 SOUTH
SCALE: 1/2" = 1'-0"

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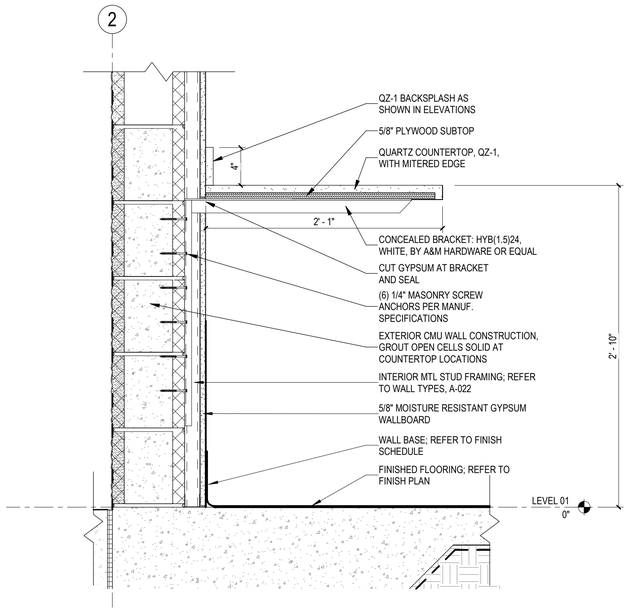
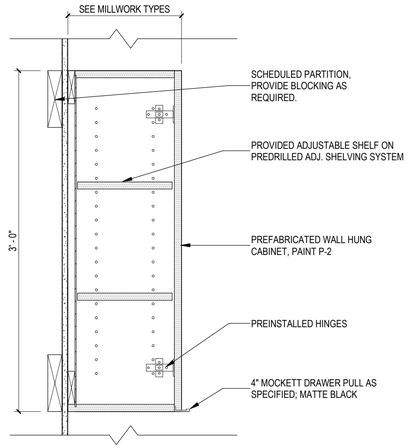
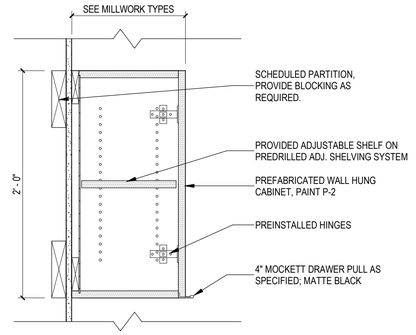
INTERIOR ELEVATIONS
A-413



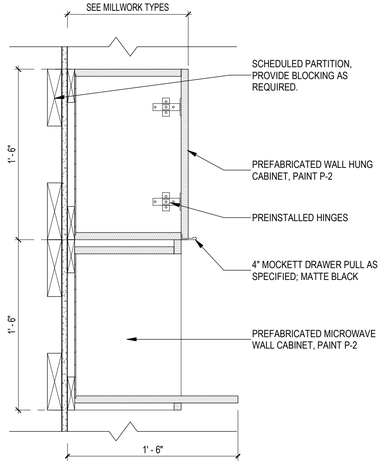
C1 SECTION DETAIL @ QUARTZ COUNTERTOP
SCALE: 1 1/2" = 1'-0"



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



MILLWORK - WC-3 / WC-4
SCALE: 1 1/2" = 1'-0"



MILLWORK - WC-5
SCALE: 1 1/2" = 1'-0"

WC-1	WC-2	WC-3	WC-4	WC-5
PREFABRICATED WALL HUNG CABINET 12" DEEP 1 DOOR 2 ADJUSTABLE SHELVES	PREFABRICATED WALL HUNG CABINET 12" DEEP 2 DOORS (PAIR) 2 ADJUSTABLE SHELVES	PREFABRICATED WALL HUNG CABINET 12" DEEP 1 DOOR 1 ADJUSTABLE SHELF	PREFABRICATED WALL HUNG CABINET 12" DEEP 2 DOORS (PAIR) 1 ADJUSTABLE SHELF	PREFABRICATED MICROWAVE WALL CABINET & WALL HUNG CABINET 12" DEEP 2 DOORS (PAIR)

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

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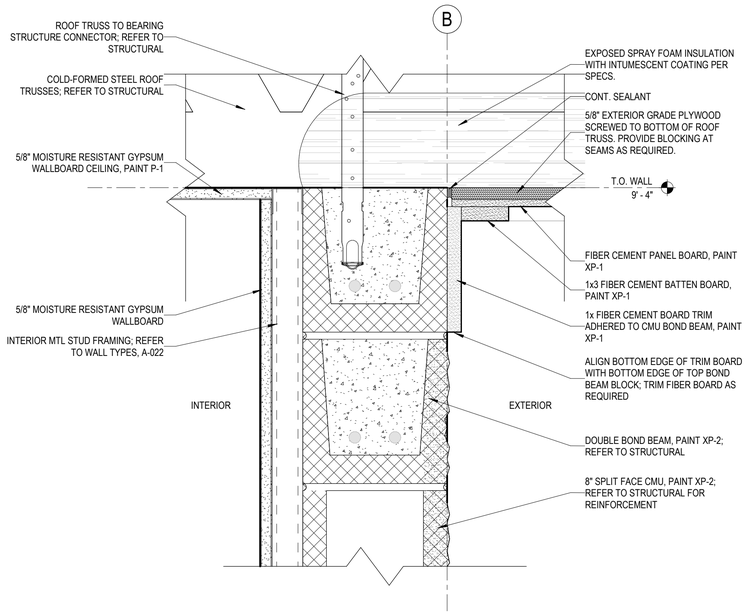
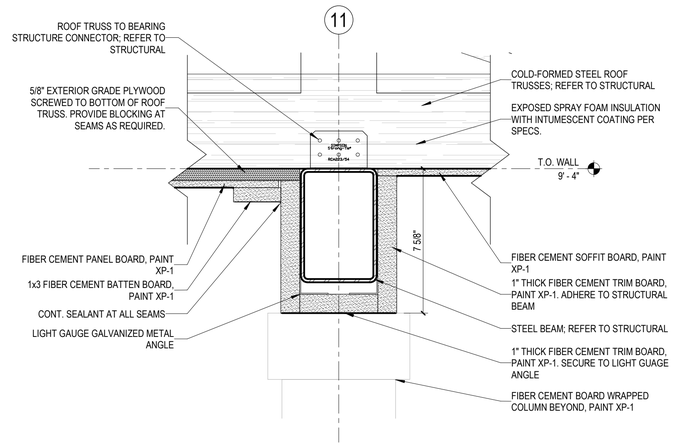
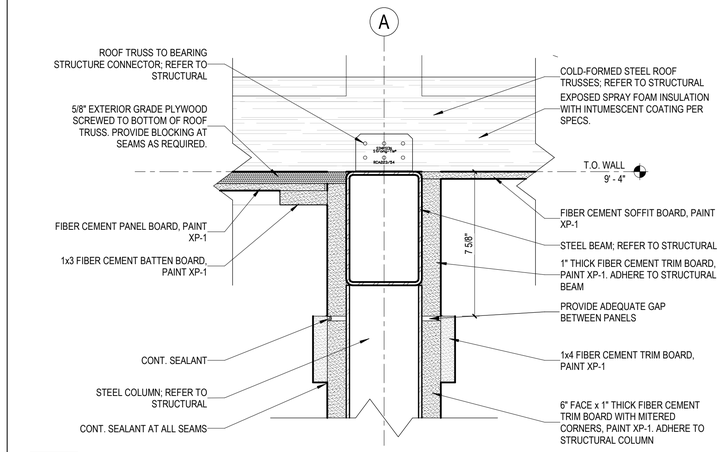
MILLWORK TYPES & SECTIONS
A-431



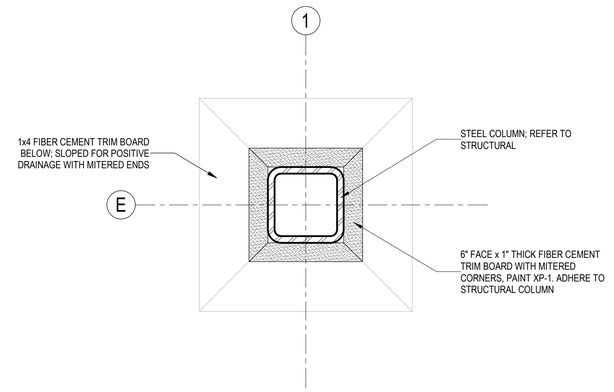
C1 SECTION DETAIL @ EXTERIOR CMU WALL & ROOF TRUSS
SCALE: 3" = 1'-0"



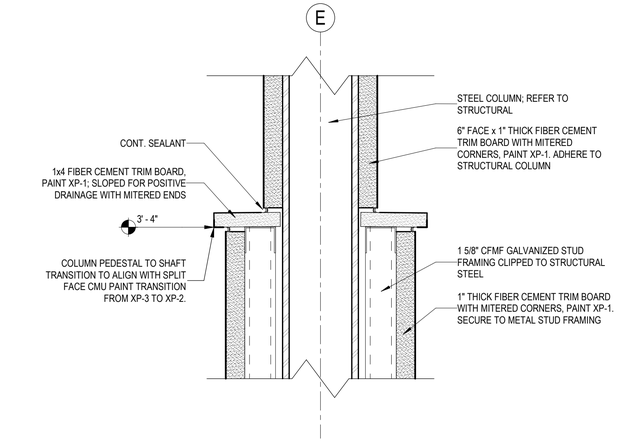
D3 SECTION DETAIL @ STEEL BEAM
SCALE: 3" = 1'-0"



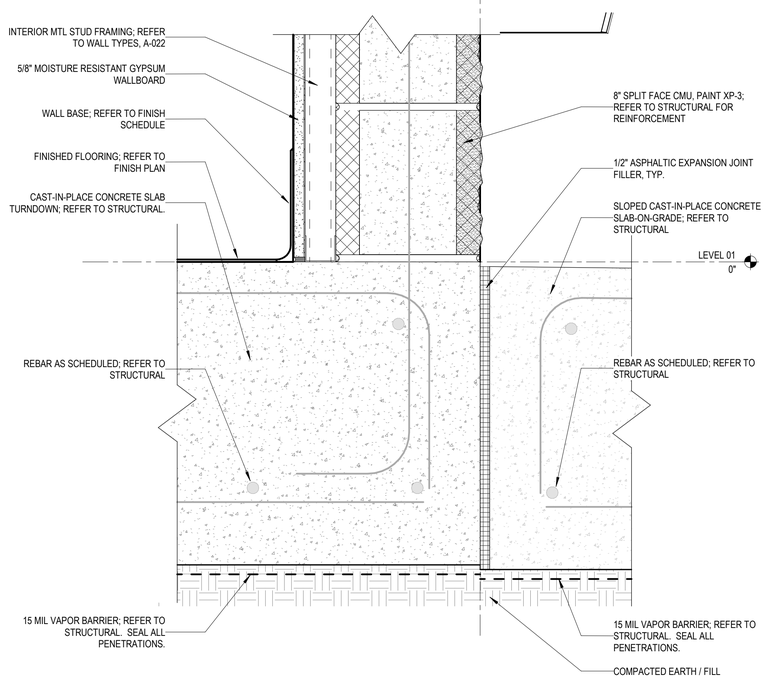
D5 SECTION DETAIL @ STEEL COLUMN / BEAM CONNECTION
SCALE: 3" = 1'-0"



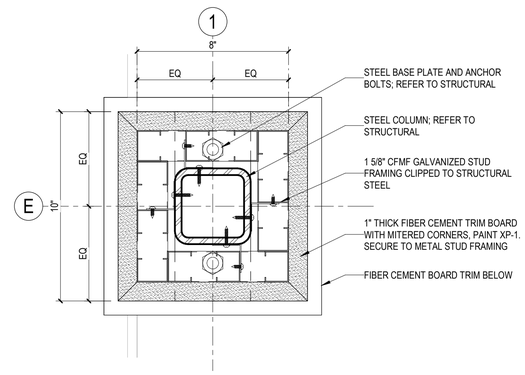
B3 PLAN DETAIL @ TYPICAL COLUMN SHAFT
SCALE: 3" = 1'-0"



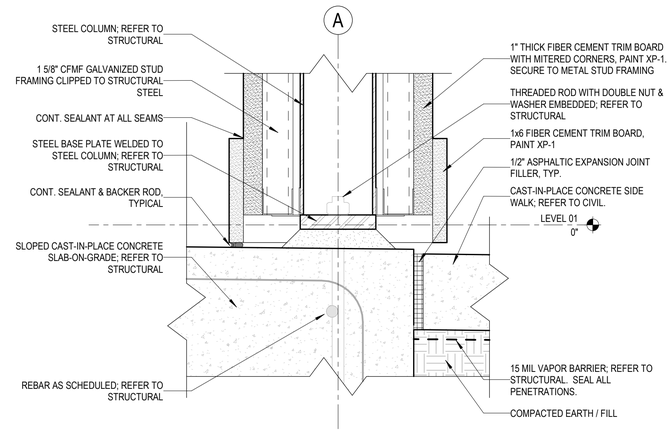
B5 SECTION DETAIL @ COLUMN PEDESTAL / SHAFT TRANSITION
SCALE: 3" = 1'-0"



A1 SECTION DETAIL @ EXTERIOR CMU WALL BASE
SCALE: 3" = 1'-0"



A3 PLAN DETAIL @ TYPICAL COLUMN PEDESTAL
SCALE: 3" = 1'-0"



A5 SECTION DETAIL @ TYPICAL COLUMN BASE
SCALE: 3" = 1'-0"

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FOR PERMIT

NORTH BAY HAVEN CHARTER ACADEMY
BLEACHERS & CONCESSION BUILDING

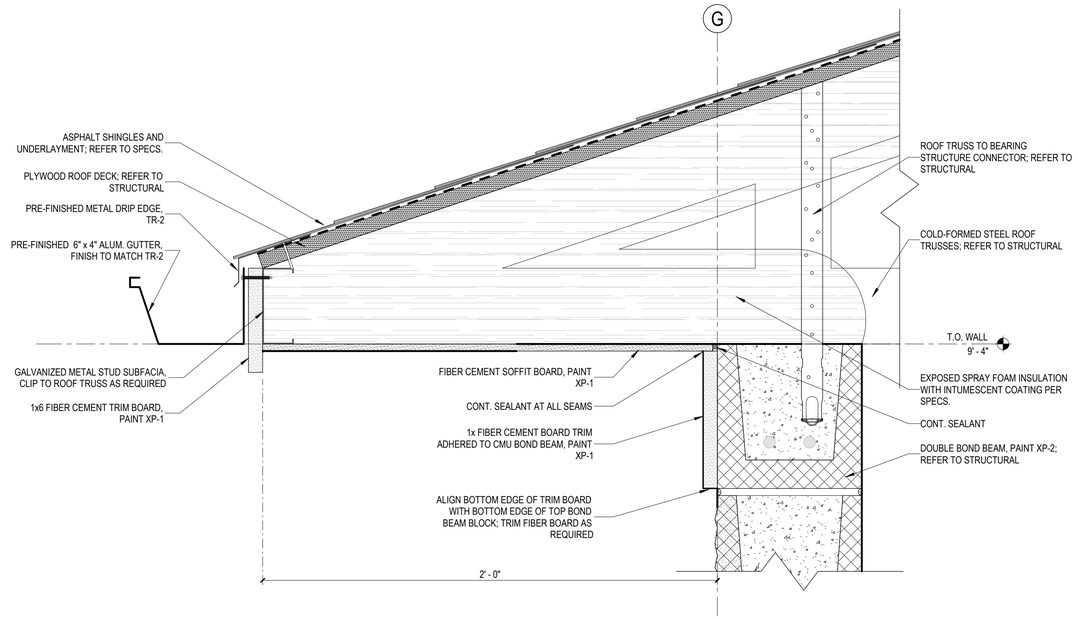
1 BUCCANEER DRIVE
PANAMA CITY, FL 32404

REVISIONS

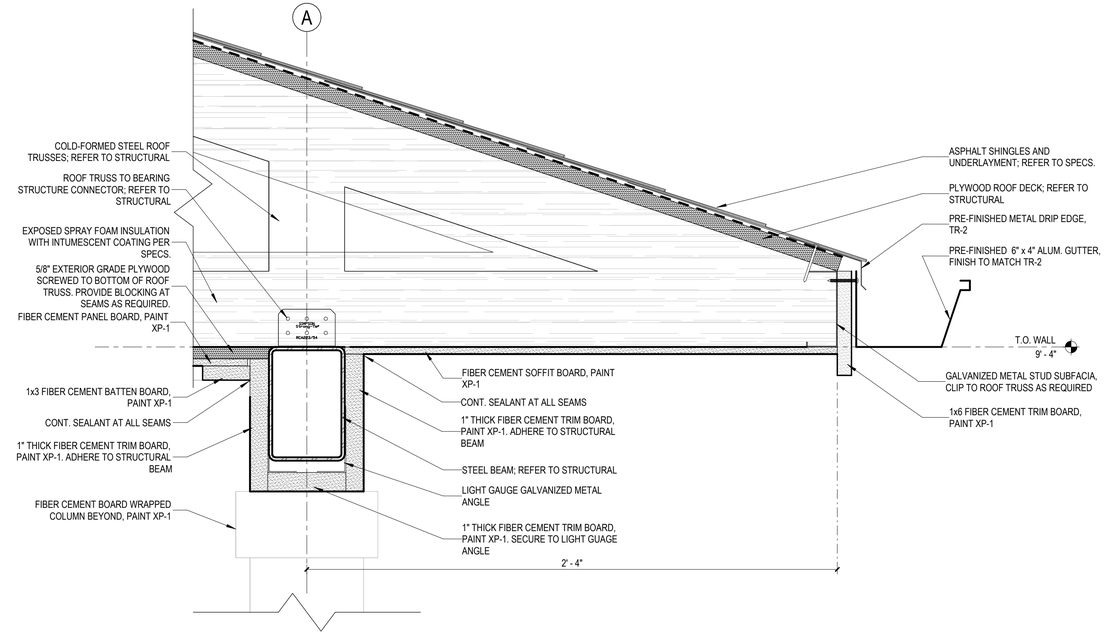
NO.	DESCRIPTION	DATE

Project Number	**25025**
Dated	08.06.2025

DETAILS
A-501



C1 SECTION DETAIL @ EXTERIOR CMU WALL & EAVE
SCALE: 3" = 1'-0"



C3 SECTION DETAIL @ STEEL BEAM & EAVE
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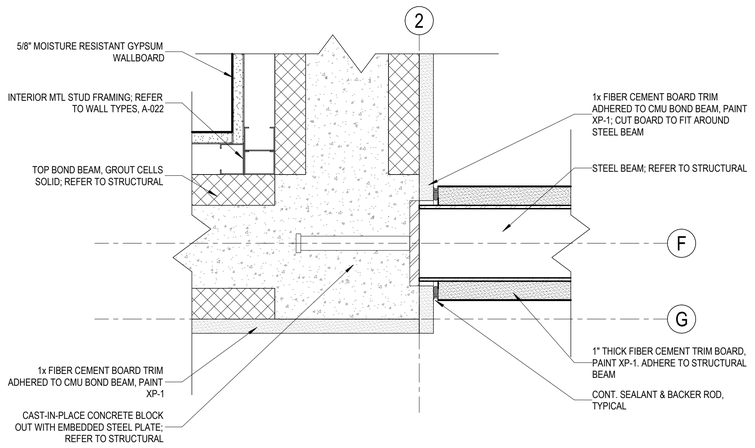
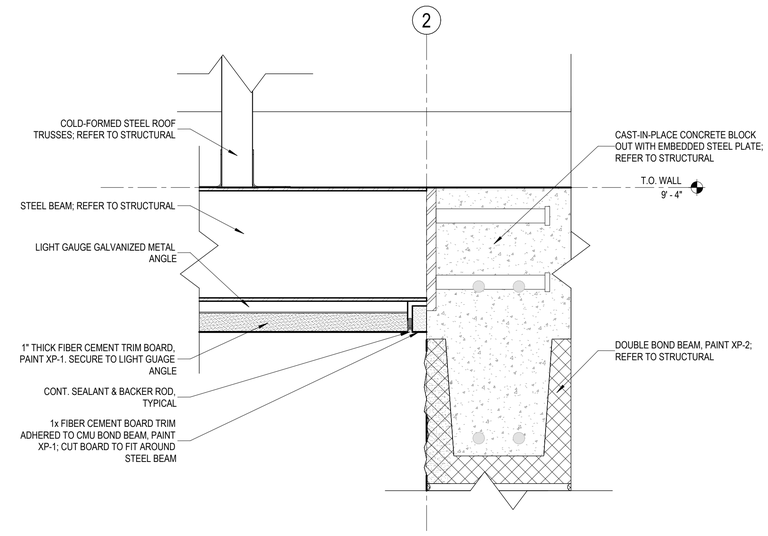


A1 PLAN DETAIL @ STEEL BEAM / CMU CONNECTION
SCALE: 3" = 1'-0"



A3 SECTION DETAIL @ STEEL BEAM / CMU CONNECTION
SCALE: 3" = 1'-0"

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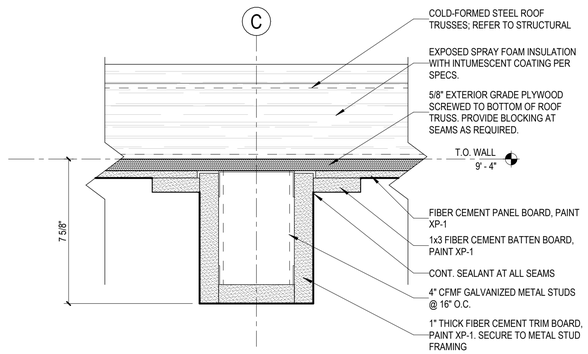
DETAILS
A-502



C1 SECTION DETAIL @ FAUX BEAM
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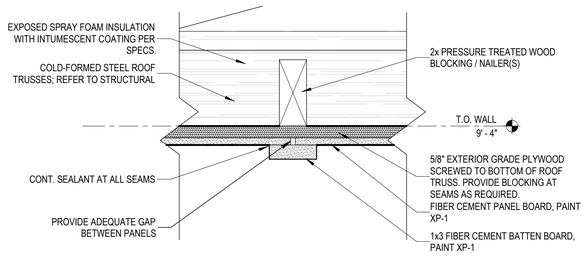
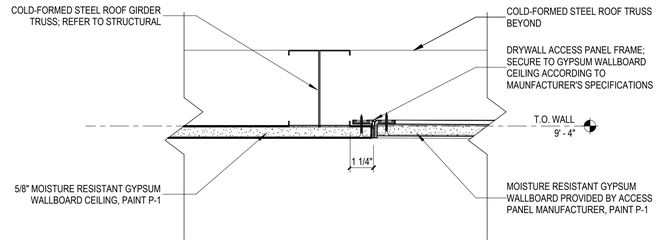
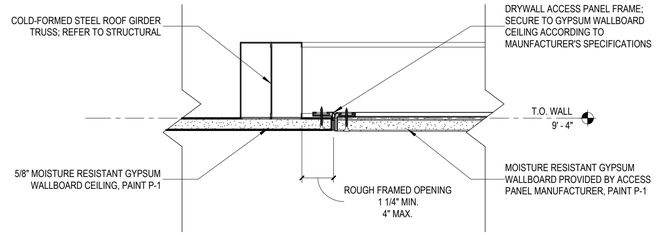


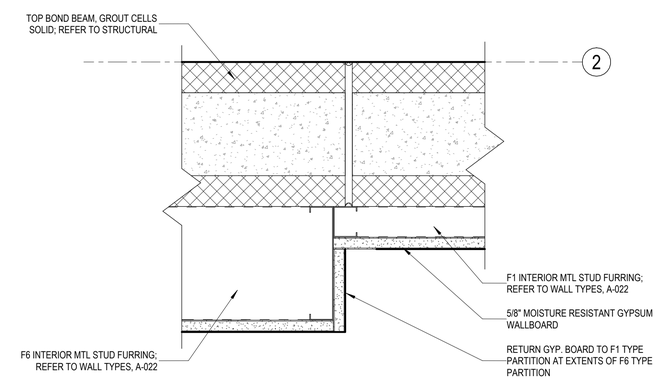
C3 SECTION DETAIL @ FIBER CEMENT BOARD & BATTEN SEAM
SCALE: 3" = 1'-0"



C4 SECTION DETAIL @ ACCESS PANEL & BRIDGING STUDS
SCALE: 3" = 1'-0"



B4 SECTION DETAIL @ ACCESS PANEL & ROOF TRUSS
SCALE: 3" = 1'-0"



A4 PLAN DETAIL @ F6 TO F1 TYPE PARTITION TRANSITION
SCALE: 3" = 1'-0"

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REVISIONS

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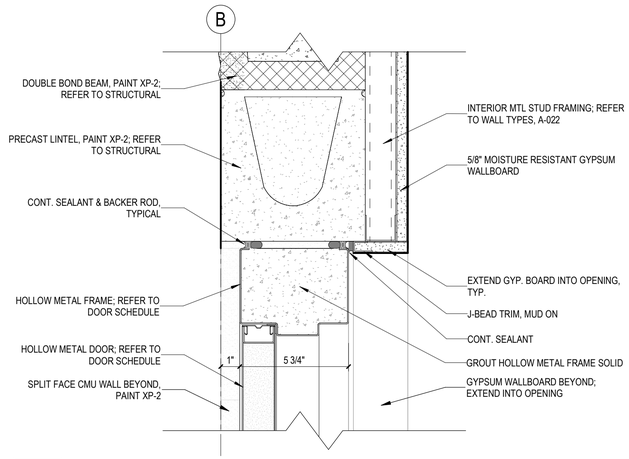
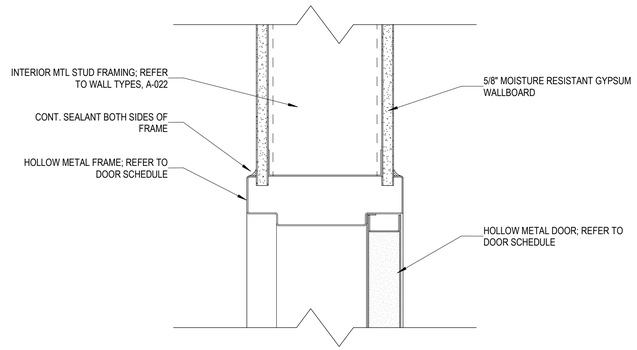
Dated	08.06.2025

DETAILS
A-503



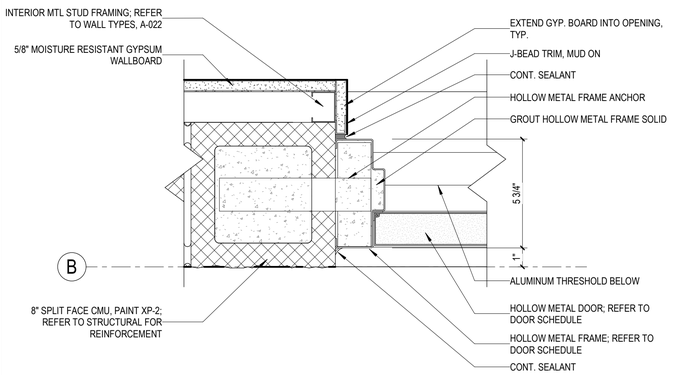
C1 TYPICAL HM FRAME HEAD DETAIL @ EXTERIOR CMU WALL

SCALE: 3" = 1'-0"



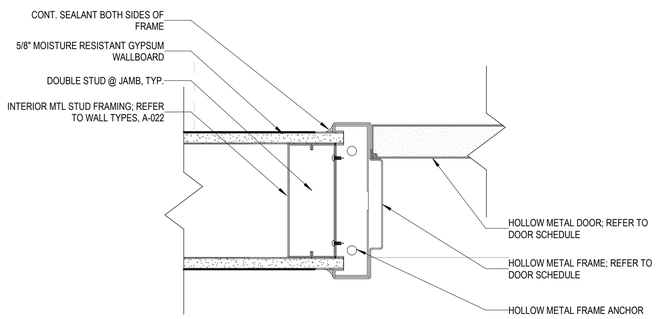
C2 TYPICAL HM FRAME HEAD DETAIL @ INTERIOR PARTITIONS

SCALE: 3" = 1'-0"



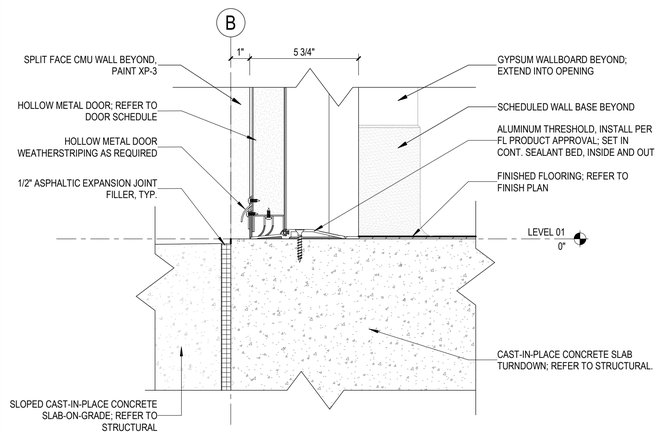
B1 TYPICAL HM FRAME DETAIL @ EXTERIOR CMU WALL

SCALE: 3" = 1'-0"



B2 TYPICAL HM FRAME JAMB DETAIL @ INTERIOR PARTITIONS

SCALE: 3" = 1'-0"



A1 TYPICAL HM FRAME SILL DETAIL @ EXTERIOR CMU WALL

SCALE: 3" = 1'-0"

DOOR SCHEDULE

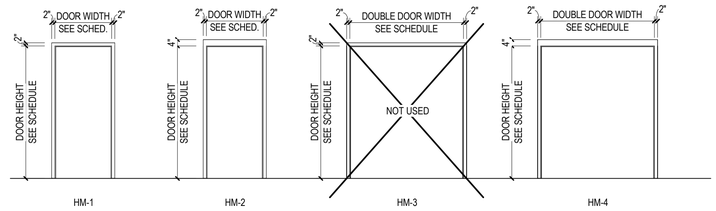
DOOR						FRAME								
	SIZE			DOOR	DOOR	FRAME	FRAME	DETAILS			FIRE	IMPACT	HARDWARE	
DOOR NO.	LEAFS	WIDTH x HEIGHT	THICK	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL	RATING	RESISTANT	SET	COMMENTS
X100		3' - 0" x 7' - 0"	1 3/4"	FP	GHM	HM-2	GHM	C1/A-601	B1/A-601	A1/A-601	--	YES	1	2
X101	2	6' - 0" x 7' - 0"	1 3/4"	FP	GHM	HM-4	GHM	C1/A-601	B1/A-601	A1/A-601	--	YES	3	3
X102		3' - 0" x 7' - 0"	1 3/4"	FP	GHM	HM-2	GHM	C1/A-601	B1/A-601	A1/A-601	--	YES	2	1
X103		3' - 0" x 7' - 0"	1 3/4"	FP	GHM	HM-2	GHM	C1/A-601	B1/A-601	A1/A-601	--	YES	2	1
102		3' - 0" x 7' - 0"	1 3/4"	FP	HM	HM-1	HM	C2/A-601	B2/A-601		--	NO	4	3
103		3' - 0" x 7' - 0"	1 3/4"	FP	HM	HM-1	HM	C2/A-601	B2/A-601		--	NO	5	3
CS01		5' - 4" x 4' - 0"	1/2"	RCD	STL		STL	C3/A-602	B3/A-602	A3/A-602	--	YES	6	4
CS02		5' - 4" x 4' - 0"	1/2"	RCD	STL		STL	C3/A-602	B3/A-602	A3/A-602	--	YES	6	4
CS03		5' - 4" x 4' - 0"	1/2"	RCD	STL		STL	C3/A-602	B3/A-602	A3/A-602	--	YES	6	4

GENERAL NOTES - DOOR SCHEDULE

1. MATERIAL ABBREVIATIONS
   STL = STEEL
   GHM = GALVANIZED HOLLOW METAL
   HM = HOLLOW METAL
2. UNLESS NOTED OTHERWISE ALL DOORS ARE 1-3/4" THICK
3. REFER TO DOOR HARDWARE SCHEDULE SPECIFICATIONS FOR HARDWARE LOCKSET SCHEDULE
4. ALL DOORS AND FRAMES TO BE PAINTED P-4. EXTERIOR SIDE OF EXTERIOR DOORS TO BE PAINTED XP-4. TRANSITION PAINT FROM EXTERIOR TO INTERIOR AT THE DOOR FRAME RABBIT ON THE SIDE THAT THE DOOR REST.
5. PRESS BOX DOORS TO BE PROVIDED BY PRESS BOX MAUNFACTURER. CONTRACTOR TO PROVIDE CYLINDERS AND CORES PER HARDWARE LOCKSET SCHEDULE; REFER TO DOOR HARDWARE SPECIFICATIONS.

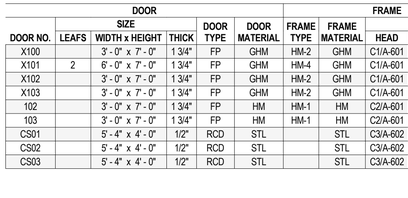
DOOR SCHEDULE NOTES - COMMENTS SECTION OF SCHEDULE

1. SURFACE CLOSER
2. SURFACE CLOSER AND HOLD OPEN DEVICE
3. HOLD OPEN DEVICE
4. SS-1 COUNTERTOP @ SILL PROVIDED BY DOOR MANUFACTURER



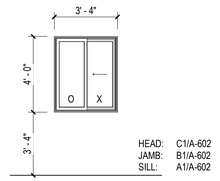
HM FRAME TYPES

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



DOOR TYPES

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



VINYL WINDOW TYPES

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

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REVISIONS
NO. DESCRIPTION DATE

Project Number	**25025**
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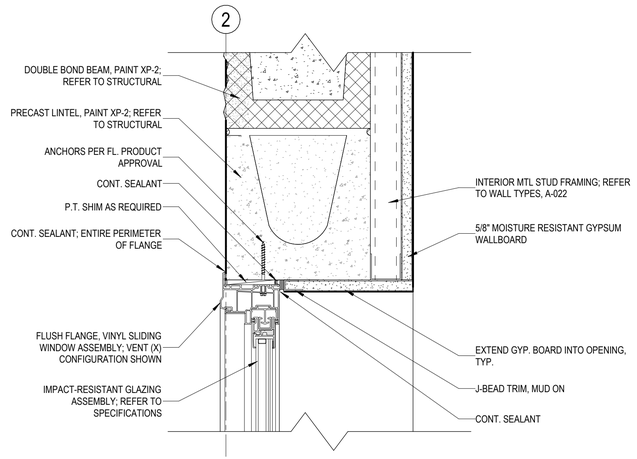
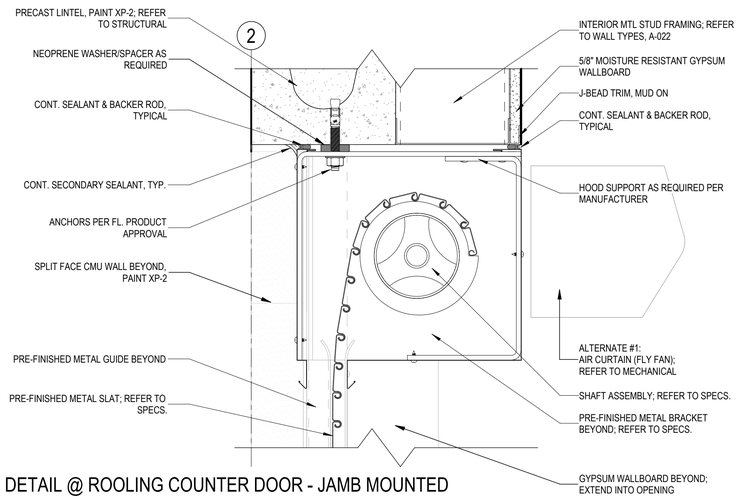
DOOR, FRAME, AND WINDOW SCHEDULE

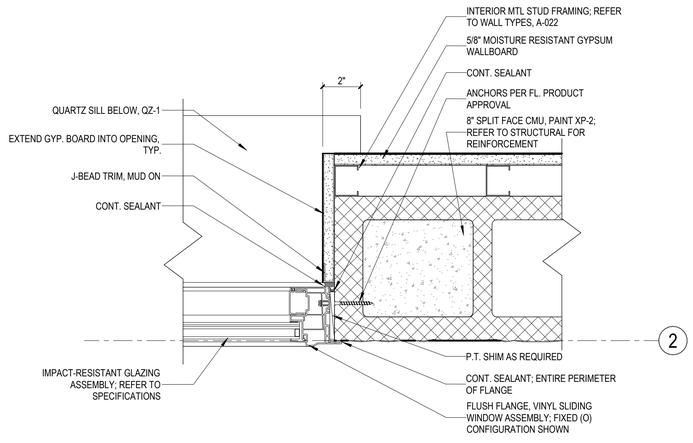
A-601



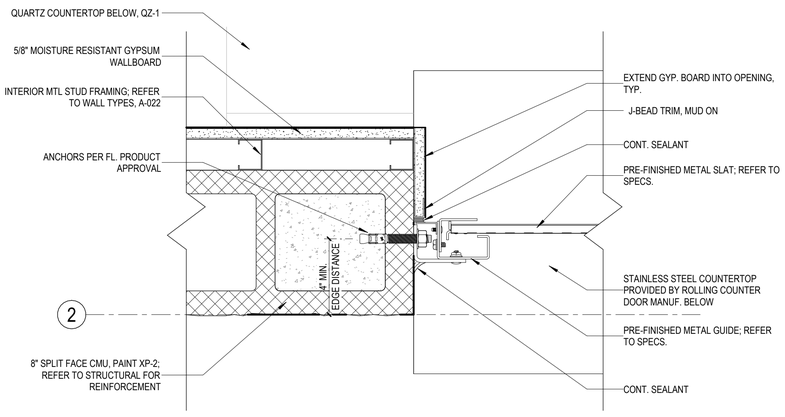
C1 TYPICAL HEAD DETAIL @ SLIDING WINDOW (SLD)
SCALE: 3" = 1'-0"



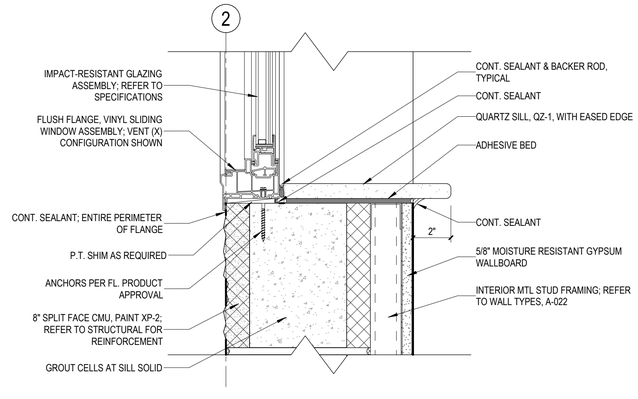
C3 TYPICAL HEAD DETAIL @ ROOLING COUNTER DOOR - JAMB MOUNTED
SCALE: 3" = 1'-0"



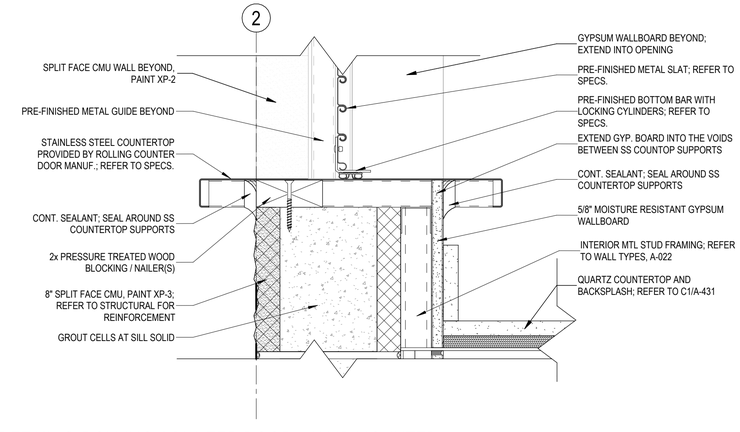
B1 TYPICAL JAMB DETAIL @ SLIDING WINDOW (SLD)
SCALE: 3" = 1'-0"



B3 TYPICAL JAMB DETAIL @ ROLLING COUNTER DOOR - JAMB MOUNTED
SCALE: 3" = 1'-0"



A1 TYPICAL SILL DETAIL @ SLIDING WINDOW (SLD)
SCALE: 3" = 1'-0"



A3 TYPICAL SILL DETAIL @ ROLLING COUNTER DOOR - JAMB MOUNTED
SCALE: 3" = 1'-0"

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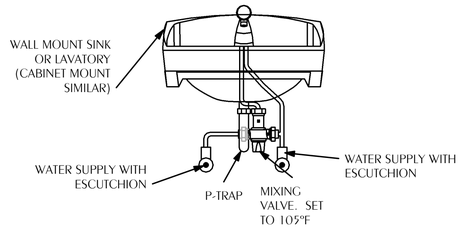
DOOR & WINDOW DETAILS

A-602

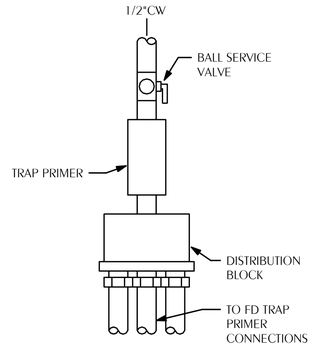
LEGEND

———	S OR W	SOIL OR WASTE PIPING
- - - -	V	VENT PIPING
— – —	CW	COLD WATER SUPPLY PIPING
— - - —	HW	HOT WATER SUPPLY PIPING
———	HWR	HOT WATER RETURN PIPING
— · —	TW	TEMPERED WATER PIPING (85°F)
	GV	GATE VALVE
	CV	CHECK VALVE
	BV	BALL VALVE
	HB	HOSE BIBB
	WH	WALL HYDRANT
	CO	CLEANOUT TO FLOOR
	FD	FLOOR DRAIN
	FD	FLOOR DRAIN WITH TRAP PRIMER CONNECTION
	COTG	CLEANOUT TO GRADE
		UNION
	VTR	VENT THRU ROOF
		SHEET NOTE
S		SOLENOID VALVE
	MR	MOP RECEPTOR
	WC	WATER CLOSET
	TP	TRAP PRIMER
	EWH	ELECTRIC WATER HEATER
	WHA	WATER HAMMER ARRESTOR TYPE A
	WHB	WATER HAMMER ARRESTOR TYPE B
	WHC	WATER HAMMER ARRESTOR TYPE C
	L	LAVATORY
	UR	URINAL
	KW	KILOWATT
	TCV	THERMOSTATIC CONTROL VALVE
	(M)	INDICATES MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS.
	(C)	INDICATES CIVIL EQUIPMENT, REFER TO CIVIL DRAWINGS.



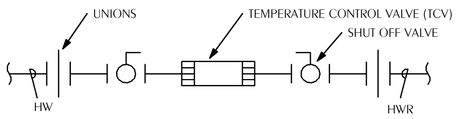
1 UNDER SINK MIXING VALVE DETAIL
P-001 SCALE: NONE

APPLICABLE FOR HAND SINK SK-2

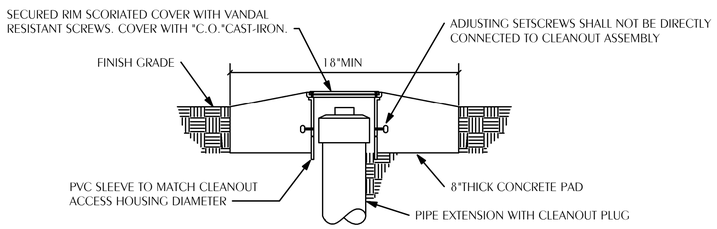


2 TRAP PRIMER DETAIL
P-001 SCALE: NONE

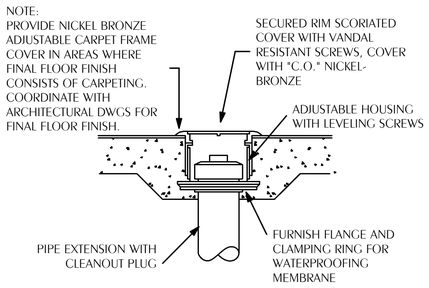
3 CLEANOUT TO WALL
P-001 SCALE: NONE



4 TEMPERATURE CONTROL VALVE DETAIL
P-001 SCALE: NONE



5 CLEANOUT TO GRADE
P-001 SCALE: NONE



6 CLEANOUT TO FLOOR
P-001 SCALE: NONE

GENERAL NOTES

1. COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS AND EXISTING CONDITIONS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
2. PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH EXISTING SITE UTILITIES. REPORT ANY CONFLICT WITH ARCHITECT.
3. FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING. COORDINATE WITH EXISTING CONDITIONS.
4. ALL PIPING PASSING THROUGH ANY WALL SHALL HAVE A SLEEVE PER SPECIFICATIONS.
5. ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS. ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
6. ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
7. COORDINATE EXACT LOCATION OF ALL EXTERIOR WALL HYDRANTS WITH ARCHITECTURAL DRAWINGS.
8. UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
9. PRIOR TO SUBSTANTIAL COMPLETION OF NEW AND ALTERED WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
10. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
11. ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. TRAP PRIMERS LOCATED IN THE VICINITY OF WATER CLOSETS SHALL BE ACTIVATED BY WATER CLOSET USAGE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN BALL OR GATE TYPE.
12. CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.
13. ALL WORK SHALL COMPLY WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023) PLUMBING.

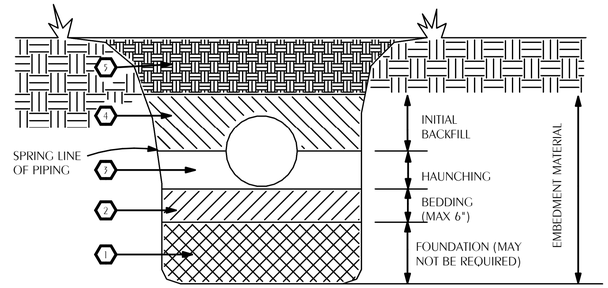
PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	FIXTURE CONNECTIONS-INCHES		
		CW	HW	W
WC-1	WATER CLOSET (ADULT HANDICAP,MANUAL FLUSH VALVE)	1	-	4
WC-2	WATER CLOSET (STANDARD HEIGHT,MANUAL FLUSH VALVE)	1	-	4
UR-1	URINAL (HANDICAP HEIGHT,MANUAL FLUSH VALVE)	3/4	-	2
UR-2	URINAL (STANDARD HEIGHT,MANUAL FLUSH VALVE)	3/4	-	2
L-1	LAVATORY (ADULT HANDICAP, 20"x18" WALL MOUNTED)	3/8	-	1-1/4
SK-1	SINGLE COMPARTMENT SCULLERY SINK (FLOOR MOUNTED)	1/2	1/2	1-1/2
SK-2	HAND SINK (WALL MOUNTED)	3/8	3/8	1-1/4
MR-1	MOP RECEPTOR (24"x24"x12")	1/2	1/2	3
EWC-1	ELECTRIC WATER COOLER (BI-LEVEL)	1/2	-	1-1/4
EWH-1	ELECTRIC WATER HEATER	3/4 INLET	3/4 OUTLET	-
CP-1	CIRCULATION PUMP (INLINE)	-	3/4 FLANGE	-
TCV	TEMPERATURE CONTROL VALVE	-	1/2	-
FD	FLOOR DRAIN	1/2	-	3
FS	FLOOR SINK	1/2	-	3
WH-1	RECESSED WALL HYDRANT	3/4	-	-
WH-2	RECESSED WALL HYDRANT (DUAL TEMP)	1/2	1/2	-
TP	TRAP PRIMER	1/2	-	-
GI-1	GREASE INTERCEPTOR	-	-	3

1. WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).
2. SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.
3. PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS.

1. A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS.
2. BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4-6", LIGHTLY COMPACTED UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET CONDITIONS, CLASS I, Ii OR III MATERIAL SHALL BE HAND PLACED IN 4-6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL.
3. HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
4. INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR III. IT SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF THE PIPE AND TAMPED BY A PORTABLE VIBRATOR. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF ROADWAY.
5. FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. A MINIMUM OF 30" OF COVER OVER THE TOP OF THE PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS WHEEL- LOADED.

NOTE:
ALL EMBEDMENT MATERIALS SHALL BE NO LESS THAN 95% OF MAXIMUM DENSITY. LABORATORY TESTING OF THE SOIL WILL BE REQUIRED. THIS PROCEDURE SHALL BE REQUIRED ON ALL INSTALLATIONS. ALL TRENCHING, EXCAVATION, AND BACKFILLING SHALL BE IN ACCORDANCE WITH 2023 FLORIDA PLUMBING CODE.



EMBEDMENT MATERIALS

CLASS I: ANGULAR, 1/4"-1-1/2", GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.

CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES GW, GP, SW, AND SP ARE INCLUDED IN THIS CLASS.

CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED IN THIS CLASS.

CLASS IV: SILT, SILTY CLAYS, AND CLAYS, INCLUDING INORGANIC CLAYS AND SILT OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. SOIL TYPES MH, ML, CH, AND CL ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

CLASS V: THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1-1/2" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

7 EXCAVATION AND BACKFILL DETAIL
P-001 SCALE: NONE

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REGISTERED LICENSE NO. 86457 STATE OF FLORIDA

Digitally Signed & Sealed

FOR PERMIT

NORTH BAY HAVEN CHARTER ACADEMY
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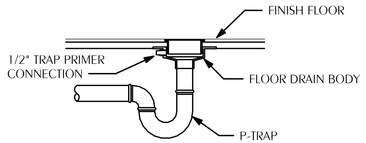
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25025
Dated	08.06.2025

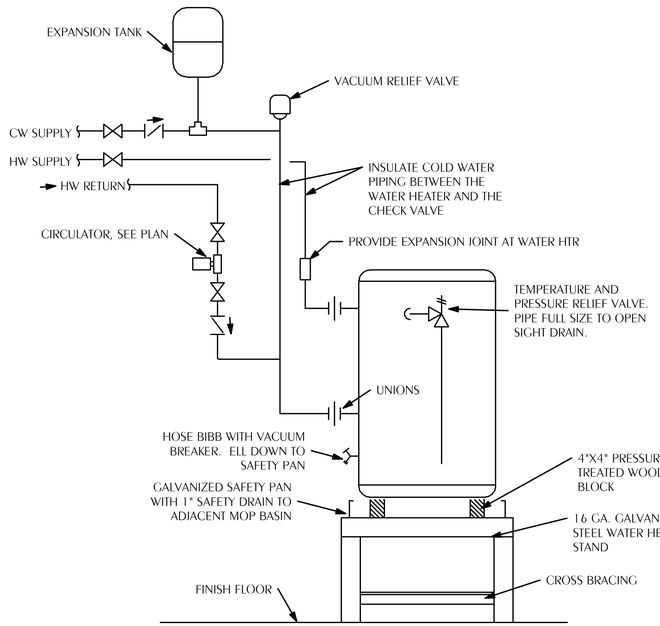
PLUMBING LEGEND, SCHEDULES, DETAILS, NOTES

P-001



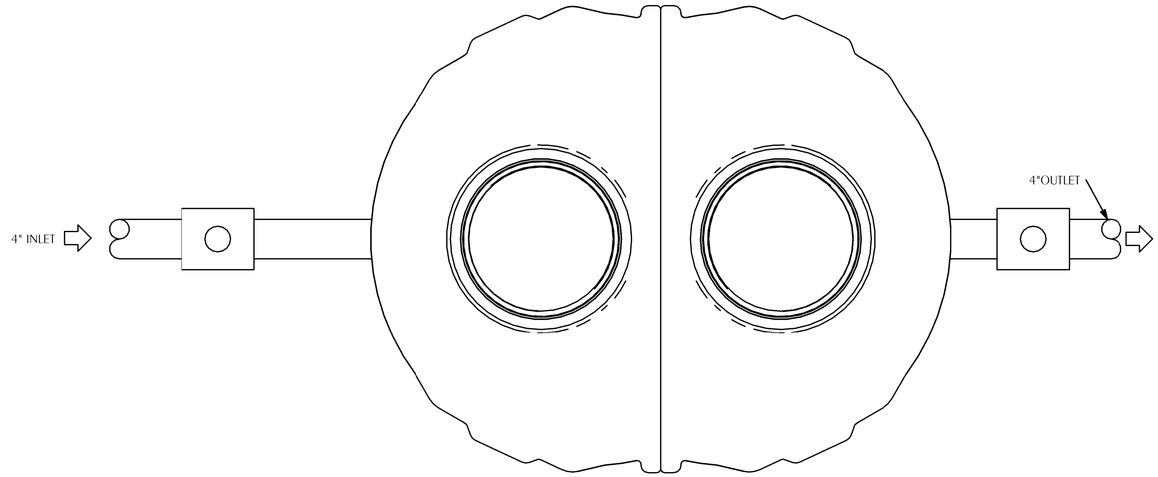
1 FLOOR DRAIN WITH TRAP PRIMER

P-002 SCALE: NONE

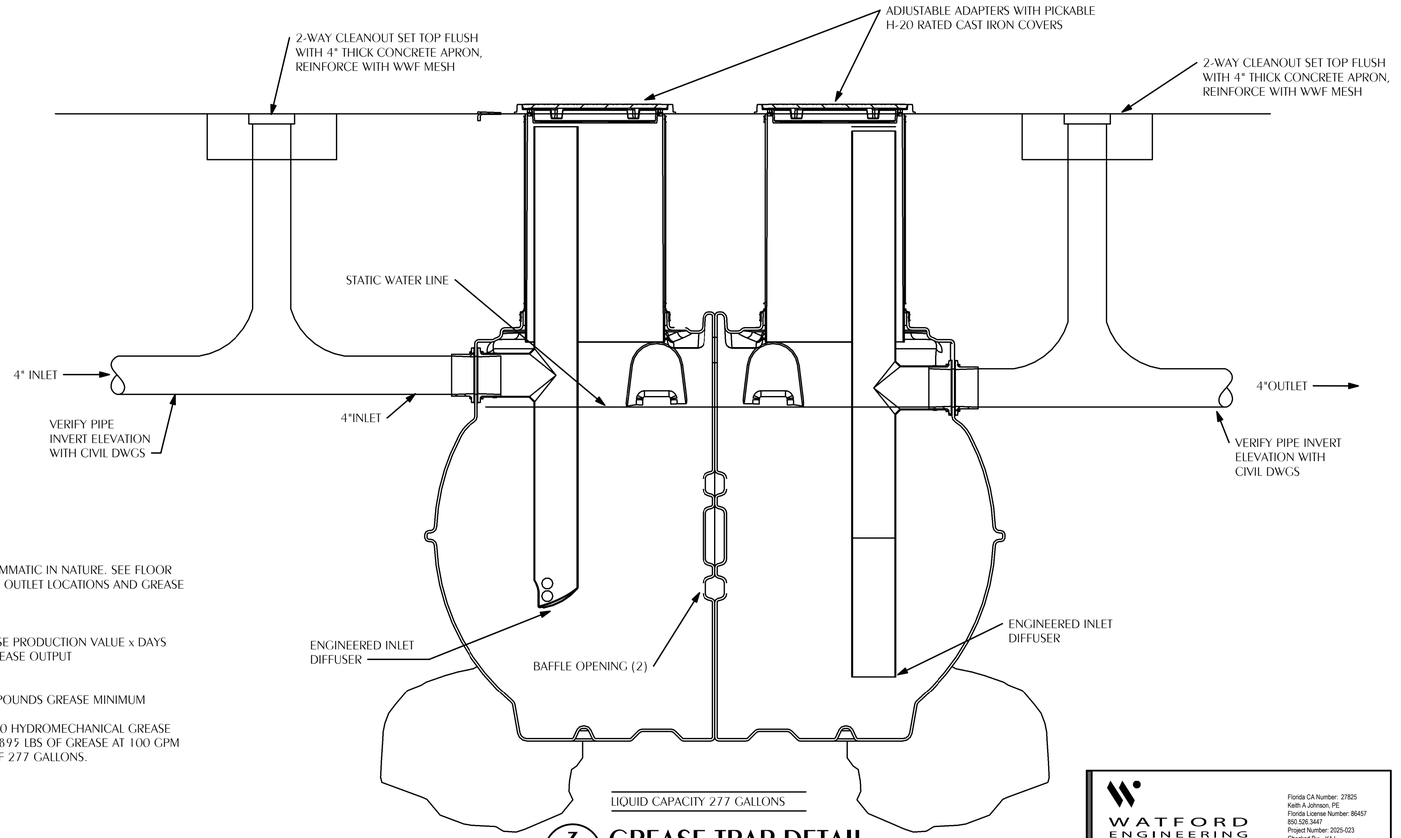


2 FLOOR MOUNTED ELECTRIC WATER HEATER WITH CIRCULATION PUMP DETAIL

P-002 SCALE: NONE



PLAN



3 GREASE TRAP DETAIL

P-002 SCALE: NONE

NOTE: DRAWING IS DIAGRAMMATIC IN NATURE. SEE FLOOR PLAN SHEET FOR INLET AND OUTLET LOCATIONS AND GREASE TRAP CONFIGURATION.

GREASE PRODUCTION:
SERVINGS PER DAY x GREASE PRODUCTION VALUE x DAYS BETWEEN PUMP OUTS = GREASE OUTPUT

CALCULATION:
1500 x 0.005 x 90 = 861 POUNDS GREASE MINIMUM

SIZING: ONE SCHIER GB-250 HYDROMECHANICAL GREASE INTERCEPTOR RATED FOR 1895 LBS OF GREASE AT 100 GPM WITH A LIQUID CAPACITY OF 277 GALLONS.

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PLUMBING DETAILS

P-002

PLUMBING FIXTURE SPECIFICATIONS

WC-1 WATER CLOSET, FLOOR-MOUNT (HANDICAP, MANUAL VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, HIGH EFFICIENCY SIPHON JET, WHITE, WATER SAVER BOWL WITH 1-1/2" TOP SPUD, 17" HIGH FOR HANDICAPPED. EXPOSED CHROME PLATE FLUSH VALVE, WITH SCREWDRIVER STOP, VACUUM BREAKER, QUIET FLUSH FEATURE, WITH SWEAT SOLDER KIT AND CAST WALL FLANGE. HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES. HOLD CENTERLINE FLUSH VALVE ASSEMBLY OFF FINISH WALL FOR GRAB BAR CLEARANCES, COORDINATE WITH ARCHITECTURAL DRAWINGS.

WATER CLOSET	ZURN Z5665BWL
VALVE	ZURN Z6000PL-HET
SEAT	Z5955SS-EL-STS
CLOSET BOLT/WAX RING KIT	Z5972-COMB

WC-2 WATER CLOSET, FLOOR-MOUNT (STANDARD, MANUAL VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, HIGH EFFICIENCY SIPHON JET, WHITE, WATER SAVER BOWL WITH 1-1/2" TOP SPUD. 15" HIGH . EXPOSED CHROME PLATE FLUSH VALVE, WITH SCREWDRIVER STOP, VACUUM BREAKER, QUIET FLUSH FEATURE, WITH SWEAT SOLDER KIT AND CAST WALL FLANGE. HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES.

WATER CLOSET	ZURN Z5655-BWL
VALVE ZURN	Z6000PL-HET
SEAT	ZURN Z5955SS-EL-STS
CLOSET BOLT/WAX RING KIT	Z5972-COMB

UR-1 URINAL, WALL-MOUNT (HANDICAP, MANUAL VALVE):

VITREOUS CHINA, 0.5 GALLONS PER FLUSH, SIPHON JET FLUSH, 3/4" TOP SPUD, AND 2" OUTLET URINAL. EXPOSED CHROME PLATED FLUSH VALVE WITH SCREWDRIVER STOP, VACUUM BREAKER AND QUIET FLUSH FEATURE. MOUNT TO SATISFY ADA REQUIREMENTS WHERE REQUIRED, COORDINATE WITH ARCHITECTURAL DRAWINGS (TOILET ROOM ELEVATIONS) FOR FINAL MOUNTING HEIGHT. FURNISH FLOOR MOUNTED SINGLE CARRIER WITH HANGER PLATE, BEARING PLATE, ADJUSTABLE SUPPORTING RODS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325.

URINAL	ZURN Z5738-U
VALVE	ZURN Z6003AV
URINAL FLANGE KIT	ZURN Z5976-URINAL
CARRIER	ZURN Z-1222
BASE ANCHORAGE	B-LINE ANCHORS AWA-50-375

UR-2 URINAL, WALL-MOUNT (STANDARD HEIGHT, MANUAL VALVE):

VITREOUS CHINA, 0.5 GALLONS PER FLUSH, SIPHON JET FLUSH, 3/4" TOP SPUD, AND 2" OUTLET URINAL. EXPOSED CHROME PLATED FLUSH VALVE WITH SCREWDRIVER STOP, VACUUM BREAKER AND QUIET FLUSH FEATURE. MOUNT TO SATISFY ADA REQUIREMENTS WHERE REQUIRED, COORDINATE WITH ARCHITECTURAL DRAWINGS (TOILET ROOM ELEVATIONS) FOR FINAL MOUNTING HEIGHT. FURNISH FLOOR MOUNTED SINGLE CARRIER WITH HANGER PLATE, BEARING PLATE, ADJUSTABLE SUPPORTING RODS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325.

URINAL	ZURN Z5738-U
VALVE	ZURN Z6003AV
URINAL FLANGE KIT	ZURN Z5976-URINAL
CARRIER	ZURN Z-1222
BASE ANCHORAGE	B-LINE ANCHORS AWA-50-375

L-1 LAVATORY, WALL-MOUNT:

VITREOUS CHINA 20" X 18", COLOR "WHITE", CENTER HOLE SETTING, FRONT OVERFLOW, FOR CONCEALED ARM SUPPORT. FURNISH FLOOR-MOUNTED SINGLE CARRIER WITH CONCEALED ARMS, LEVELING AND SECURING SCREWS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325. PROVIDE CHROME PLATED 1/2" IPS X 3/8"OD, LOOSE KEY OPERATED, ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE COPPER RISER, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS SINGLE WATER METERING FAUCET WITH COVER PLATE, 0.5 GPM AERATOR OUTLET AND PUSH BUTTON. LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH FULLY MOLDED INSULATION KIT, AND LIGHT GRAY COLOR WITH 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE VALVE ASSEMBLY. FASTENERS SHALL BE NYLON-TYPE SUPPLIED WITH KIT. LAVATORY SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 28" FROM FLOOR TO BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES SHALL BE AS FOLLOWS: 27" CLEAR HEIGHT SHALL BE PROVIDED FROM FINISHED FLOOR TO A POINT ON UNDERSIDE OF BOWL 8" IN FROM FRONT APRON. TOE CLEARANCE SHALL BE A MINIMUM HEIGHT OF 9" UNDER P-TRAP AND SUPPLIES OR STOPS. SEE ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT.

LAVATORY ZURN Z5341
FAUCET ZURN Z-86300-3M
SUPPLY W/STOP ZURN Z8802LRLK-PC
P-TRAP ZURN Z8700-PC
STRAINER/TAILPIECE ZURN Z8746
INSULATION KIT ZURN Z8946-3-NT
CARRIER ZURN Z-1231
BASE ANCHORAGE B-LINE ANCHORS AWA-50-375

EWH-1 ELECTRIC WATER HEATER:

ASHRAE STANDARD 90, GLASS LINED TANK SUITABLE FOR 150 PSI WORKING PRESSURE, 300-PSI TEST. FINISH OF DURABLE HIGH GLOSS BAKED ENAMEL. BLANKET GLASS FIBER INSULATION OVER ENTIRE TANK. ASME PRESSURE AND TEMPERATURE RELIEF VALVE. WATER HEATER SHALL BE ACCEPTABLE FOR COMMERCIAL APPLICATION BY MANUFACTURER. PROVIDE 3 FULL YEAR WARRANTY, SNAP ACTION AUTOMATIC SURFACE MOUNTED THERMOSTATS, IMMERSION TYPE HEATING ELEMENTS AND MAGNESIUM ANODE ROD. PROVIDE UNIT MOUNTED DISCONNECT SWITCH. PROVIDE THERMAL EXPANSION RELIEF VALVE ON COLD WATER INLET SIDE OF HEATER FOR THERMAL EXPANSION CONTROL. PROVIDE GALVANIZED STEEL DRIP PAN. 9KW, 480 VOLTS, 3 PHASE, WIRED FOR SIMULTANEOUS OPERATION. PROVIDE WITH 24"x24"x18" HEAVY DUTY 16 GA. GALVANIZED STEEL WATER HEATER STAND WITH GALVANIZED STEEL CROSS BRACING AND RATED FOR UP TO 100 GALLON WATER HEATERS..

WATER HEATER	A. O. SMITH DEN-40
VACUUM RELIEF	WATTS 36A
EXPANSION RELIEF VALVE	WATTS 530
STAND	SIOUX CHIEF 598-012

SK-1 SINGLE COMPARTMENT SCULLERY SINK :

30-1/2" X 30" X 14" DEEP, BOWL 24"X24"X14" DEEP, 24" DRAIN BOARD, FLOOR MOUNTED STAINLESS STEEL SCULLERY SINK, WITH FOUR 1-5/8" DIAMETER STAINLESS STEEL LEGS WITH 1" ADJUSTABLE BULLET FEET. PROVIDE WITH TWIST WASTE DRAIN ASSEMBLY, 1-1/2" DRAIN OPENING, BACKSPLASH MOUNT SWING GOOSENECK FAUCET WITH LEVER HANDLES, AND INDIRECT DRAIN TO FLOOR SINK.

SINK	ADVANCE TABCO FS-1-2424-24L
FAUCET	ZURN Z843G1-XL
TWIST WASTE	ZURN Z89600

SK-2 HAND SINK:

14"x16-1/2"x11" WALL MOUNTED 18 GAUGE, TYPE 304, STAINLESS STEEL HAND SINK WITH 4" CENTERS, FAUCET, AND STRAINER. PROVIDE WITH 17 GAUGE CHROME PLATED P-TRAP WITH CLEANOUT, TUBE WASTE TO WALL, 1/2" IPS x 3/8" OD ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE COPPER SUPPLIES, AND UNDER SINK MIXING VALVE WITH THREADED OR SOLDERED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80ºF & 120ºF, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

SINK	ELKAY EHS-14X
FAUCET	FURNISHED WITH SINK
SUPPLIES	ZURN Z8802LRLK-PC
P-TRAP	ZURN Z8700-PC
MIXING VALVE	WATTS LFUSG-B

MR-1 SERVICE SINK (FLOOR TYPE):

24" X 24" X 12" DEEP, SQUARE, FLOOR MOUNT, TERRAZZO WITH 20 GAUGE STAINLESS STEEL INTEGRAL CAST CAP, 3" CAST BRASS OUTLET DRAIN WITH STAINLESS STEEL STRAINER. ROUGH CHROME PLATED 8" FAUCET WITH TOP BRACE, STRAIGHT LEVER HANDLES, SWIVEL INLETS, BUCKET HOOK, VACUUM BREAKER, INTEGRAL SERVICE STOPS AND HOSE END.

SINK	ACORN TSB3000-KMH
FAUCET	ZURN Z843M1-RC

EWC-1 ELECTRIC WATER COOLER (DUAL PURPOSE/TWO LEVELS):

WALL MOUNT, EXTERIOR, FROST RESISTANT, DUAL-PURPOSE UNIT, SELF-CONTAINED ELECTRIC WATER COOLER. FURNISH FLOOR MOUNTED TWO LEVELS DOUBLE CARRIER WITH BEARING PLATE, HANGAR PLATE, ADJUSTABLE SUPPORTING RODS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE TO FLOOR WITH 1/2" BOLTS AND ANCHORS. UNIT TO BE COMPLETE WITH HERMETIC AIR-COOLED REFRIGERATION SYSTEM, COOLER PRE-COOLER, THERMOSTAT, SAFETY CONTROLS, CONDENSER FAN MOTOR, FROST RESISTANT HEATING ELEMENT, VANDAL RESISTANT BUBBLER, VERMIN PROOF INSULATION, HEAVY GAUGE STEEL CABINET, MOISTURE RESISTANT FINISH, QUIET OPERATION. FINISH SHALL BE STAINLESS STEEL. COOLER CAPACITY SHALL BE 8.0 GPH, LAMINAR FLOW, COOLING 80-DEGREE F WATER TO 50 DEGREE F. PROVIDE ONE-YEAR WARRANTY ON ENTIRE COOLER. PROVIDE CHROME PLATED STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE SUPPLY. PROVIDE 1-1/2" CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT. PROVIDE CHROME PLATED 1/2" IPS X 3/8" OD ANGLE STOP TO WALL WITH CHROME PLATED FLEXIBLE COPPER SUPPLY RISERS AND LOOSE KEY OPERATOR. 115V/60HZ, SINGLE PHASE, 7.2 FULL LOAD AMPS, HERMETICALLY-SEALED RECIPROCATING COMPRESSOR. VERIFY FINAL LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. FINISH TO BE SELECTED BY ARCHITECT. CERTIFIED TO NSF/ANSI 42, 53, 61, & 372. UL 399 REQUIREMENTS.

EDF	ELKAY VRCTLFR8SC
TRAP	ZURN Z-8702-PC
SUPPLIES	ZURN Z-8802LK
CARRIER	ZURN Z1225-BL

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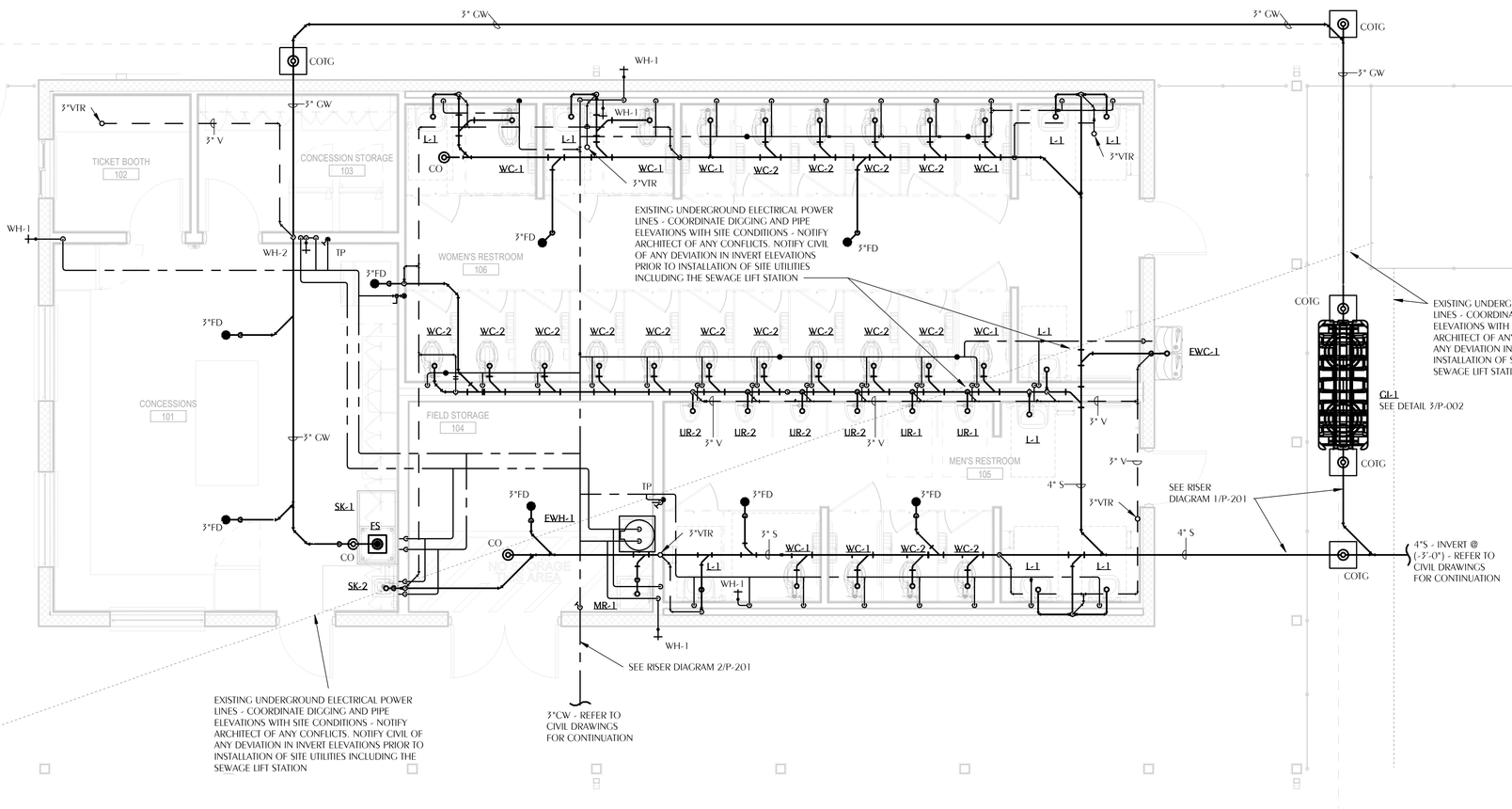
PLUMBING FIXTURE SPECIFICATIONS

P-003



1 PLUMBING NEW WORK PLAN

P-101 SCALE: 1/4" = 1'-0"

PROJECT NORTH / TRUE NORTH

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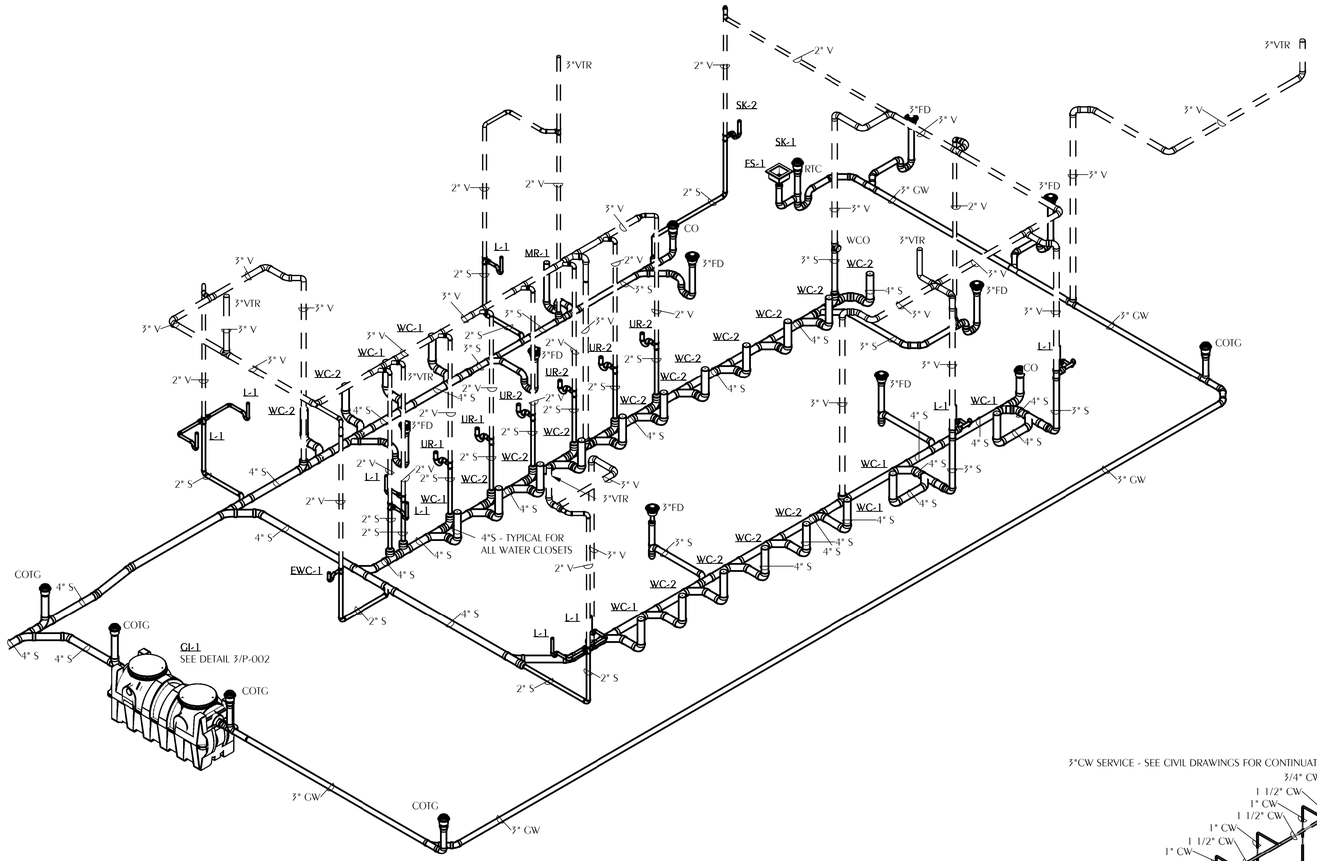
PLUMBING NEW WORK PLAN

P-101



1 SANITARY RISER DIAGRAM
P-201 SCALE: NONE

2 DOMESTIC WATER RISER DIAGRAM
P-201 SCALE: NONE

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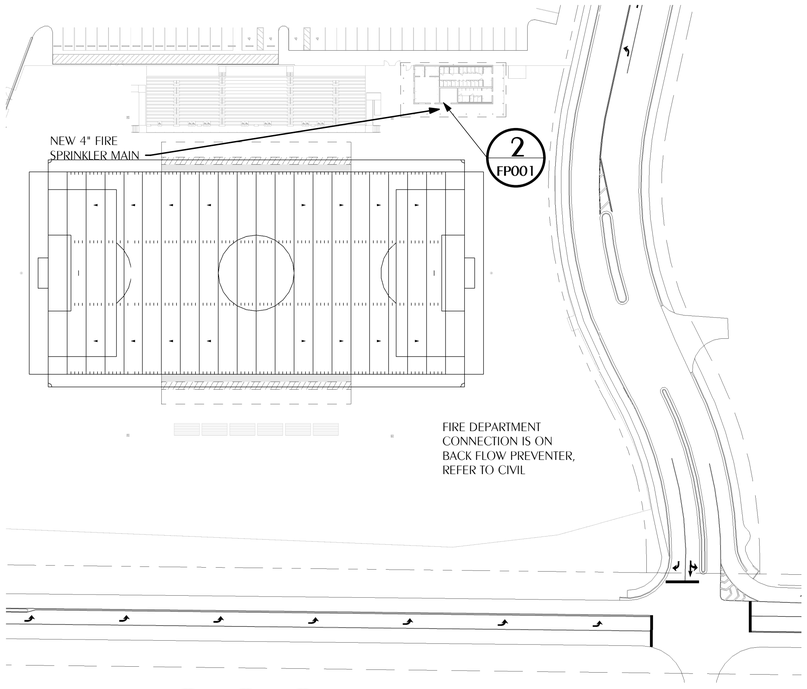
PLUMBING RISER DIAGRAMS

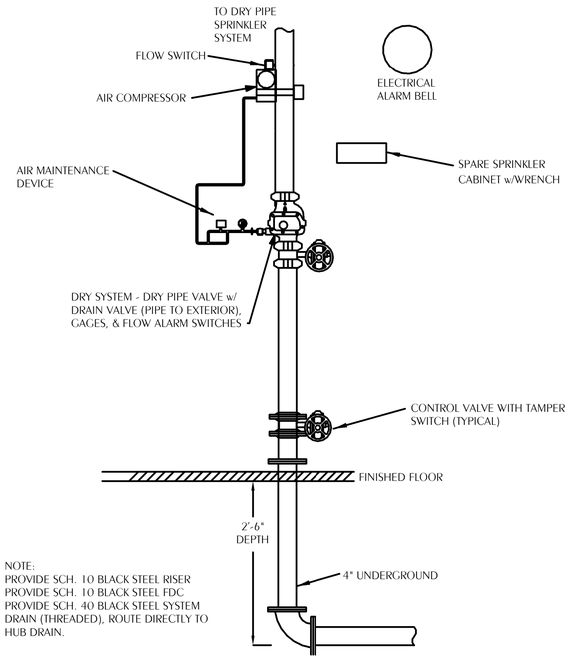
P-201



1 FIRE PROTECTION SITE PLAN

FP001 SCALE: 1" = 60'-0"

PROJECT NORTH / TRUE NORTH



NOTE:
PROVIDE SCH. 10 BLACK STEEL RISER
PROVIDE SCH. 10 BLACK STEEL FDC
PROVIDE SCH. 40 BLACK STEEL SYSTEM
DRAIN (THREADED), ROUTE DIRECTLY TO
HUB DRAIN.

2 DRY SYSTEM RISER DETAIL

FP001 SCALE: NONE

SYSTEM ENGINEERING SUMMARY

AREA SERVICED (DRY PIPE)	1760 SF
HYDRAULICALLY MOST REMOTE AREA	1500 SF
HAZARD CLASSIFICATION OF REMOTE AREA	LIGHT
SYSTEM DESIGN FLOW RATE (INDOOR)	0.10 GPM
OUTSIDE HOSE STREAM DEMAND	195 GPM
TOTAL WATER DEMAND	100 GPM
WATER PRESSURE DATA	
END HEAD PRESSURE	7.0 PSI
ELEVATION LOSS	7.79 PSI
OUTSIDE FRICTION LOSS	- PSI
BACK FLOW PREVENTOR	3 PSI
SAFETY FACTOR	10 PSI
AVAILABLE INSIDE FRICTION LOSS	20 PSI

LEGEND

FW	FIRE WATER SUPPLY
PW	POTABLE WATER SUPPLY
	CEILING MOUNTED PENDANT HEAD
	UPRIGHT HEAD
	SIDEWALL HEAD
F	FREEZE PROOF SIDEWALL HEAD (EXTENDED COVERAGE)

DESIGN CRITERIA

EACH BULIDING SYSTEM SHALL BE HYDRAULICALLY DESIGNED WITH NO INSIDE HOSE STREAM ALLOWANCE AND FIRE PROTECTION SPRINKLER DENSITY VALUES AS FOLLOWS:

LIGHT HAZARD = 0.10 GPM/SF WITH A MAXIUMUM OF 225 SF COVERAGE PER SPRINKLER

ORDINARY HAZARD GROUP 1 = 0.15 GPM/SF WITH A MAXIMUM OF 130 SF COVERAGE PER SPRINKLER

ORDINARY HAZARD GROUP II = 0.20 GPM/SF WITH A MAXIMUM OF 130 SF COVERAGE PER SPRINKLER

THE SPRINKLER DESIGN SHALL BE BASED ON THE MOST HYDRAULICALLY DEMANDING 1500 SF. THE CONTRACTOR IS ALLOWED TO REDUCE THE DESIGN AREA BASED ON THE USE OF QUICK RESPONSE SPRINKLERS AND CEILING HEIGHT IN ACCORDANCE WITH NFPA 13.

THE DESIGN OF THE SPRINKLER SYSTEM SHALL BE BASED UPON WATER SUPPLY INFORMATION OBTAINED BY THE SPRINKLER CONTRACTOR AND WITNESSED BY THE AUTHORITY HAVING JURISDICTION. WATER SUPPLY SHALL BE PRESUMED AVAILABLE AT THE POINT OF CONNECTION OF THE FIRE MAIN TO THE WATER SUPPLY SYSTEM. FLOW TEST DATA IS UNAVAILABLE AT THIS TIME, BUT IS PRESUMED TO BE SUFFICIENT. AN ADDENDUM WILL BE PROVIDED AS SOON AS THE DATA IS RECEIVED.

HYDRANT #1:

STATIC = XX PSI

RESIDUAL = XX PSI

HYDRANT #2:

FLOWING XXX GPM

OUTLET SMOOTH & ROUNDED COEF. 0.90

GENERAL NOTES

1. IT IS NOTED THAT SOME AREAS WILL BE REQUIRED TO BE PROTECTED AS ORDINARY HAZARD (MECHANICAL ROOMS, ETC.) THESE AREAS HAVE BEEN IDENTIFIED BY A DIFFERENT HATCHING PATTERN THEN THE LIGHT HAZARD AREAS ON THE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN CURRENT WATER FLOW DATA AND DESIGN SPRINKLER SYSTEMS ACCORDINGLY.
3. MAINTAIN THE INTEGRITY OF ALL FIRE RATED ASSEMBLIES AND ACOUSTICAL ASSEMBLIES.
4. CONTRACTOR SHALL COORDINATE SYSTEM DESIGN WITH ALL OTHER TRADES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING INSPECTOR'S TEST LOCATIONS IN ACCORDANCE WITH NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.
6. ALL PIPING SHALL OBSERVE PROPER PITCH. PROVIDE DRAINS FOR LOW POINTS.
7. THE SPRINKLER SYSTEM SHALL BE ARRANGED FOR FLUSHING. READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF ALL CROSSMAINS.
8. PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA 13 FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING OR DEVICE SHALL BE ATTACHED TO THE SPRINKLER HANGER SYSTEM UNLESS THE HANGER HAS BEEN DESIGNED TO CARRY THE ADDITIONAL LOAD.
9. THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.
10. ALL UNDERGROUND PIPING SHALL BE DUCTILE IRON WITH FITTINGS AND JOINTS PER NFPA 13. TEFLON TAPE SHALL BE ADDED TO ALL MALE THREADS OF PIPE AS A JOINING COMPOUND.
11. ALL ABOVE GROUND WET SPRINKLER PIPE THAT IS THREADED SHALL BE SCHEDULE 40 BLACK WITH BLACK CAST/MALEABLE IRON FITTINGS WITH JOINTS PER NFPA 13. TEFLON TAPE SHALL BE ADDED TO ALL MALE THREADS OF PIPE AS A JOINING COMPOUND. CPVC PIPING IS NOT ACCEPTABLE.
12. ALL ABOVE GROUND WET SYSTEM SPRINKLER PIPE THAT IS WELDED OR ROLL-GROOVED SHALL BE SCHEDULE 10 BLACK WITH BLACK CAST/MALEABLE IRON FITTINGS WITH JOINTS PER NFPA 13. CPVC PIPING IS NOT ACCEPTABLE.
13. TRENCHING SHALL BE PERFORMED BY HAND WHERE THERE IS THE POSSIBILITY OF ENCOUNTERING OBSTACLES OR EXISTING UTILITY LINES. WHERE CLEAR AND UNOBSTRUCTED AREAS ARE TO BE EXCAVATED, APPROPRIATE MACHINE EXCAVATION METHODS MAY BE EMPLOYED. PROVIDE PROPER BACKFILL AS REQUIRED PER SPECIFICATIONS.
14. INSTALL SPRINKLER HEADS IN CENTER OF TILE IN ACCOUSTICAL CEILINGS. HEAD LOCATIONS SHALL BE GUIDED B ARCHITECTURAL ELEMENTS FOR OTHER CEILING TYPES.
15. DO NOT LOCATE INSPECTOR'S TEST LOCATIONS OR DRAINS IN FINISHED SPACES. INDICATE ALL LOCATIONS OF EXPOSED PIPING ON SHOP DRAWINGS.
16. SITE PIPING BEYOND 5'-0" OUTSIDE OF BUILDING SHOWN FOR REFERENCE ONLY. REFER TO CIVIL SITE UTILITY PLANS FOR BACK FLOW PREVENTER WITH FIRE DEPARTMENT CONNECTION AND HYDRANT LOCATIONS.
17. FLEXIBLE CONNECTIONS TO SPRINKLER HEADS ARE NOT ALLOWED.

WATER BASED SPRINKLER SYSTEM REQUIREMENTS

1. THE POINT OF SERVICE, BACKFLOW PREVENTER, & FDC ARE SHOWN FOR REFERENCE ONLY. REFER TO THE CIVIL SITE UTILITY PLAN FOR FURTHER INFORMATION.
2. THE BUILDING SHALL BE FULLY SPRINKLED IN ACCORDANCE WITH NFPA 13-2016 AND 2020 FLORIDA FIRE PREVENTION CODE (7TH EDITION).
3. REFER TO PLAN SHEETS AND HAZARD CLASSIFICATION LEGEND FOR HAZARD CLASSIFICATION OF EACH ROOM OR AREA.
4. THE NEW SYSTEMS SHALL SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13-2019.

   LIGHT HAZARD: 0.10 GPM/SF, MAX 225 SF PER HEAD, 15 FT MAX NOMINAL SPACING; ORDINARY TEMPERATURE RATING HEADS.
   ORDINARY HAZARD GROUP 1: 0.15 GPM/SF, MAX 130 SF PER HEAD, 15 FT MAX NOMINAL SPACING; INTERMEDIATE TEMPERATURE RATING HEADS.
   ORDINARY HAZARD GROUP 2: 0.20 GPM/SF, MAX 130 SF PER HEAD, 15 FT MAX NOMINAL SPACING; INTERMEDIATE TEMPERATURE RATING HEADS.

   FOR ADDITIONAL REQUIREMENTS, REFER TO DESIGN CRITERIA NOTES ON THIS SHEET.
5. THE POINT OF SERVICE CONNECTION IS TO A MUNICIPAL POTABLE WATER MAIN.
6. REFER TO DESIGN CRITERIA NOTES ON THIS SHEET FOR FLOW TEST DATA.
7. REFER TO RISER DETAIL FOR VALVE AND SUPERVISION REQUIREMENTS.
8. MICROBIAL INDUCED CORROSION IS NOT ANTICIPATED IN THIS PROJECT.
9. REFER TO CIVIL SITE UTILITY DRAWINGS FOR BACKFLOW PREVENTER. MAXIMUM DESIGN PRESSURE DROP SHALL NOT EXCEED 5 PSI.
10. REFER TO DIVISION 21 SPECIFICATIONS FOR QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL FIRE PROTECTION COMPONENTS.
11. NO FIRE PUMP IS REQUIRED.
12. NO ON SITE FIREWATER STORAGE TANK IS REQUIRED.

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1 BUCCANEER DRIVE
PANAMA CITY, FL 32404

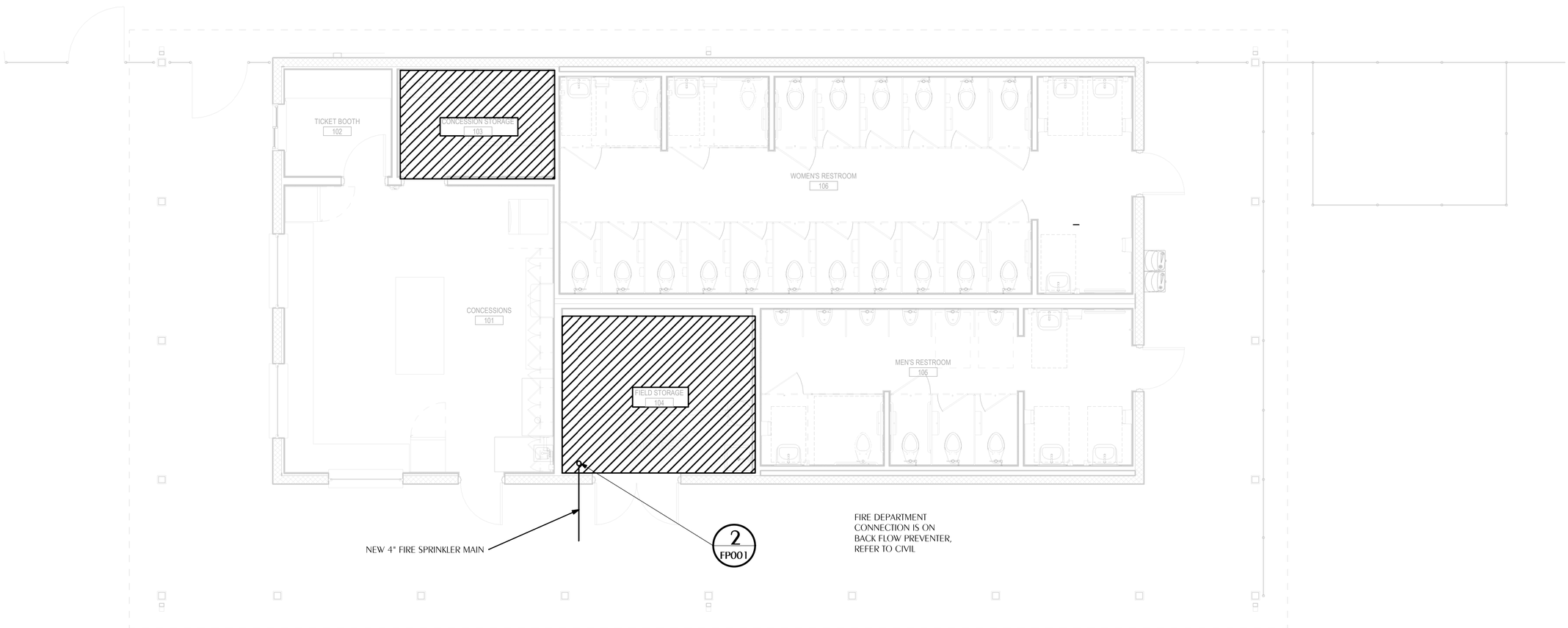
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25025
Dated	08.06.2025

FIRE PROTECTION SITE PLAN

FP001



1 FIRE PROTECTION PLAN

FP101 SCALE: 1/4" = 1'-0"

N PROJECT NORTH

N TRUE NORTH

HAZARD CLASSIFICATION	
	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2

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FIRE PROTECTION PLAN

FP101

HVAC LEGEND

AHU-1	EQUIPMENT TAG
1 / M3	DETAIL TAG ("1" INDICATES IDENTIFICATION NUMBER; "M3" INDICATES THE SHEET NUMBER DRAWN ON)
1	SHEET NOTE
	SUPPLY DUCT SECTION POSITIVE PRESSURE
	RETURN OR EXHAUST DUCT NEGATIVE PRESSURE
AxB	RECTANGULAR DUCT SIZE ("A" INDICATES SIDE SHOWN; "B" INDICATES SIDE NOT SHOWN) INDICATES RISE IN ELEVATION OF DUCT.
	EXTERNALLY INSULATED DUCTWORK
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK
	DUCT ELBOW WITH TURNING VANES
	RADIUSED DUCT ELBOW
	FLEXIBLE DUCT CONNECTION
	MANUAL VOLUME BALANCING DAMPER
M	MOTORIZED DAMPER
FD	FIRE DAMPER WITH ACCESS DOORS
SD	SMOKE DAMPER WITH ACCESS DOORS
BD	BACKDRAFT DAMPER
	TEE WITH TURNING VANES
	TRANSITION
	FLEX DUCT TAKE OFF WITH MVD SIZE EQUALS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE
	BRANCH DUCT TAKEOFF WITH MVD
	INTERNALLY INSULATED DUCTWORK

SR-1 / 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM
(2)SR-1 / 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM (2) INDICATES TYPICAL OF TWO DEVICES
TYP	TYPICAL
TEMP	TEMPERATURE
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
MA	MIXED AIR
OA	OUTDOOR AIR
TA	TRANSFER AIR
EF	EXHAUST FAN
CD	CEILING DIFFUSER
RG	RETURN GRILLE
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
CREF	CEILING ROOF EXHAUST FAN
AHU	INDOOR AIR HANDLING UNIT
HP	HEAT PUMP
OAU	OUTSIDE AIR UNIT
T	THERMOSTAT, "1" INDICATES UNIT CONTROLLED
S	DUCT MOUNTED SMOKE DETECTOR
UC	UNDERCUT DOOR 3/4"
DG	DOOR GRILLE, REFER TO DOOR SCHEDULE
AFF	ABOVE FINISHED FLOOR
	FIRE DAMPER AT CEILING DIFFUSER OR GRILLE
XFR	TRANSFER AIR
ESP	EXTERNAL STATIC PRESSURE
DDC	DIRECT DIGITAL CONTROLS
TAB	TESTING, ADJUSTING, AND BALANCING
NOM	NOMINAL
VFD	VARIABLE FREQUENCY DRIVE
WM	DUCTLESS FCU - WALL MOUNTED UNIT

FAN SCHEDULE

UNIT	TYPE	CFM	MAX. FAN RPM	ESP (IN. H20)	MAX. MOTOR POWER	SONES/db (MAX)	BASIS OF DESIGN	MODEL	CONTROL	ELECRICAL VOLTS/PHASE	NOTES
EF-1	INLINE	4465	632	0.520	2 HP	10.0	COOK	245SQN08D	INTERLOCK WITH RESTROOM LIGHT SWITCH	208/3	1,2,3,4,5,6,7,8
FF-1	WALL	1500	1550	N/A	1/6 HP	53	MARS	LPV260-1UD-OB	INTERLOCK WITH DOOR SWITCH	208/1	1,9,10
FF-2	WALL	1500	1550	N/A	1/6 HP	53	MARS	LPV260-1UD-OB	INTERLOCK WITH DOOR SWITCH	208/1	1,9,10
FF-3	WALL	1500	1550	N/A	1/6 HP	53	MARS	LPV260-1UD-OB	INTERLOCK WITH DOOR SWITCH	208/1	1,9,10
FF-4	WALL	900	1550	N/A	1/6 HP	49	MARS	LPV236-1UD-OB	INTERLOCK WITH DOOR SWITCH	208/1	1,9,10

1. PROVIDE DISCONNECT
2. PROVIDE SOLID STATE SPEED CONTROLLER
3. PROVIDE BACKDRAFT DAMPER
4. PROVIDE THERMAL OVERLOAD
5. PROVIDE DIRECT DRIVE FAN WITH EC MOTOR.
6. PROVIDE RUBBER IN SHEAR VIBRATION ISOLATION.
7. FAN SHALL BE INTERLOCKED TO TURN ON WITH LIGHTS OF EITHER RESTROOM
8. PROVIDE THERMOSTAT
9. PROVIDE DOOR SWITCH.
10. FAN SHALL BE ALTERNATE #1.

GENERAL NOTES

1. ALL DUCT DIMENSIONS ARE NET INSIDE.
2. VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
3. FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
5. PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
6. WASTE VENT STACKS, EXHAUST FANS, ETC. SHALL BE A MINIMUM OF 10 FT. FROM OUTSIDE AIR INTAKES.
7. ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
8. ALL AHU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
9. PROVIDE ACCESS PANELS IN HARD CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING.
10. ALL BIRD AND INSECT SCREENS SHALL BE ANODIZED ALUMINUM.
11. BECAUSE OF THE SMALL SCALE OF CONTRACT DOCUMENTS IT IS NOT POSSIBLE TO SHOW ALL OFFSETS, TRANSITIONS, ETC. THE CONTRACT DOCUMENTS ARE ESSENTIALLY DIAGRAMATIC. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS COORDINATED WITH THE STRUCTURE AND ARCHITECTURAL WORK FOR REVIEW PRIOR TO COMMENCING WORK
12. ALL WORK SHALL COMPLY WITH 2023 FLORIDA BUILDING CODE.

SEQUENCE OF OPERATION

EXHAUST FAN: THE FAN SHALL BE INTERLOCKED WITH THE LIGHTS OF BOTH RESTROOMS. FAN SHALL RUN WHENEVER EITHER RESTROOM IS OCCUPIED. THERMOSTAT SHALL BE PROVIDED IN CONCESSION AND SHALL BE INTERLOCKED WITH FAN.

ELECTRIC HEATERS: THE SETPOINT SHALL BE 65°F (ADJUSTABLE).

UNIT HEATER SCHEDULE

UNIT UH	CFM	BASIS OF DESIGN	MODEL	ELECTRIAL VOLTS/PHASE	KW	AMPS	NOTES
UH-1	1100	MARKEL	P3P5115CA1N	480/3	15	18.1	1,2,3
UH-2	1100	MARKEL	P3P5115CA1N	480/3	15	18.1	1,2,3
UH-3	400	MARKEL	P3P5103CA1N	480/3	3.3	4	1,2,3
UH-4	700	MARKEL	P3P5107CA1N	480/3	7.5	9.1	1,2,3
UH-5	1100	MARKEL	P3P5115CA1N	480/3	15	18.1	1,2,3

1. PROVIDE DISCONNECT AND THERMAL OVERLOAD
2. PROVIDE FACTORY MOUNTED AND WIRED TAMPER-PROOF THERMOSTAT
3. PROVIDE FOR HORIZONTAL SURFACE MOUNTING. HEATER SHALL BE MOUNTED ON CEILING

VENTILATION SCHEDULE

SPACE TYPE	VENTILATION CFM/S.F.	VENTILATION CFM/PERSON	EXHAUST CFM
RESTROOM	0	5	50/FIXTURE
STORAGE	0	5	0
JANITORS CLOSET	0	5	1/SF

NOTE:

VENTILATION RATES IN COMPLIANCE WITH ASHRAE STANDARD 62.1-2019.

DUCTWORK AND INSULATION GENERAL NOTES

1. ALL ROUND FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8M OR ENGINEER APPROVED EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
2. SEAL ALL DUCT PENETRATIONS OF WALLS AND FLOORS AIRTIGHT, REGARDLESS OF WHETHER WALLS AND FLOORS ARE FIRE RATED OR NOT.
3. UNLESS OTHERWISE INDICATED, ALL SUPPLY AIR DUCTWORK UPSTREAM OF TERMINAL UNITS SHALL BE OVAL OR ROUND, SMACNA STATIC PRESSURE CLASS 3" W.G., SEAL CLASS A. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
4. ALL SUPPLY AIR DUCTWORK UPSTREAM OF TERMINAL UNITS WITHIN 40' OF AHU DISCHARGE SHALL BE DOUBLE WALL SPIRAL WITH PERFORATED INNER LINER.
5. ALL SUPPLY AIR DUCTWORK DOWNSTREAM OF TERMINAL UNITS (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
6. ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
7. ALL AHU RETURN DUCT WITHIN 40' OF AHU RETURN PLENUM SHALL BE LINED WITH 2" DUCT LINER PER PROJECT SPECIFICATIONS.
8. ALL AHU RETURN PLENUMS SHALL BE LINED WITH 2" DUCT LINER PER PROJECT SPECIFICATIONS.
9. ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
10. STANDARD EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, INSULATION NOT REQUIRED.
11. AVOID ROUTING DUCTWORK AND TU'S WITHIN 6" OF TOP OF LIGHT FIXTURES WHEREVER POSSIBLE. MAINTAIN CLEARANCE BETWEEN TU'S AND DUCT INSULATION TO TOP OF LIGHTS. PROVIDE CLEARANCE ALL AROUND AIR TERMINAL UNITS AS REQUIRED FOR ROUTINE MAINTENANCE.
12. PROVIDE MVD'S AT ALL TAKEOFFS FROM MAIN DUCTS.
13. CONTRACTOR SHALL SUBMIT COORDINATED DUCTWORK SHOP DRAWINGS INDICATING COORDINATION WITH ELECTRICAL AND PLUMBING PRIOR TO BEGINNING WORK. SHOP DRAWINGS SHALL INCLUDE LOCATIONS OF THERMOSTATS, ACCESS PANELS, AIR DEVICES, DUCTWORK, ETC.

AIR DEVICE SCHEDULE

MARK	MAX AIRFLOW CFM	AIR DEVICE SIZE	DUCT CONNECTION SIZE	TITUS MODEL
CD-1 CFM	80	9x9	6Ø	TDC
CD-2 CFM	230	12x12	8Ø	TDC
CD-3 CFM	350	12x12	10Ø	TDC
SWG-1 CFM	60	6x6	6x6	272RL
CD-4 CFM	2000	16x36	16x36	272RL
RG, EG, SG, TG, RR, ER				
xx-1 CFM	530	12x12	12x12	350FL
xx-2 CFM	1800	22x22	22x22	350FL
xx-3 CFM	2000	16x36	16x36	350FL

NOTES:
1. MAX NC=20
2. PROVIDE 2x2 LAY IN PANEL FOR AIR DEVICES IN LAY IN CEILINGS.
3. PROVIDE BEVELED MOUNTING FRAME FOR CEILING DIFFUSERS IN HARD CEILINGS.
4. PROVIDE FLAT MOUNTING FRAME FOR GRILLES LOCATED IN HARD CEILINGS.
5. PAINT ALL DUCT VISIBLE THROUGH GRILLES FLAT BLACK.

GRAVITY VENTILATOR SCHEDULE

UNIT	THROAT SIZE	BASIS OF DESIGN	MODEL	ESP (IN. H20)	NOTES
GV-1	18x54	COOK	18X54GR	0.076	1,2,3,4
GV-2	18x54	COOK	18X54GI	0.066	1,2,3,4

1. PROVIDE ROOF CURB.
2. PROVIDE ALUMINUM BIRDSCREEN.
3. PROVIDE WITH AND INSTALL IN ACCORDANCE WITH FLORIDA PRODUCT APPROVAL.
4. PROVIDE BACKDRAFT DAMPER

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1 BUCCANEER DRIVE
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REVISIONS

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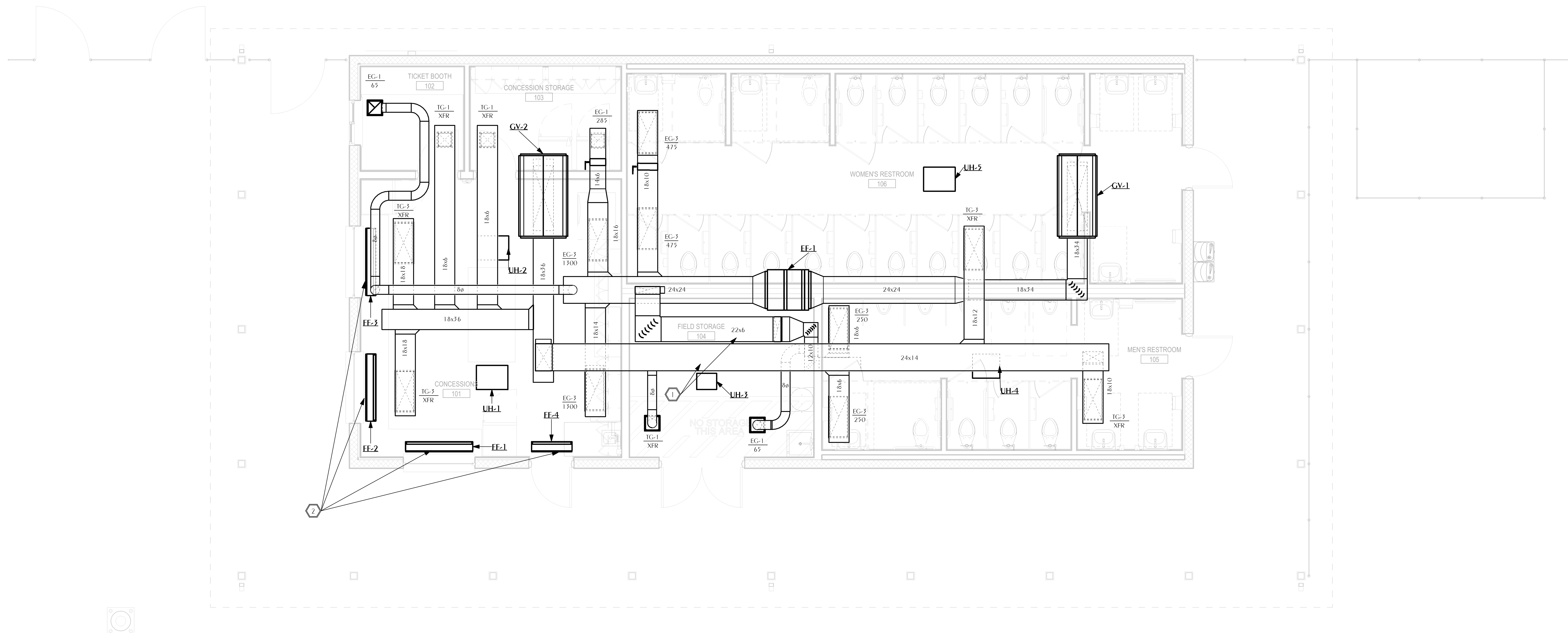
Dated	08.06.2025

HVAC LEGEND, NOTES, AND SCHEDULES

M-001

SHEET NOTES

1. DUCT SHALL RUN TIGHT TO TOP OF STRUCTURE. COORDINATE WITH ACCESS PANEL BY OTHERS TO ENSURE FAN CAN BE MOVED THROUGH ACCESS PANEL.
2. PROVIDE AS PART OF ADD ALTERNATE #1.



1 HVAC FLOOR PLAN
M-101
SCALE: 1/4" = 1'-0"

PROJECT NORTH
TRUE NORTH

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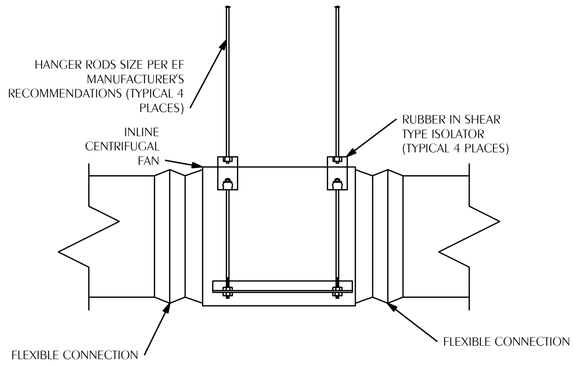
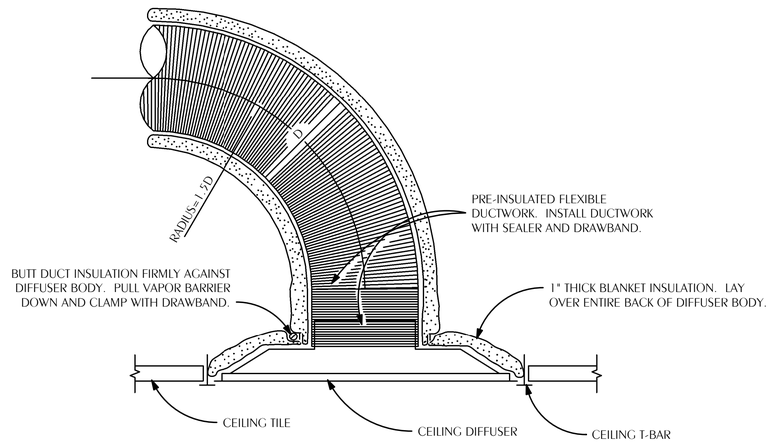
HVAC FLOOR PLAN
M-101



1 M-201 **INLINE FAN DETAIL**
SCALE: NONE



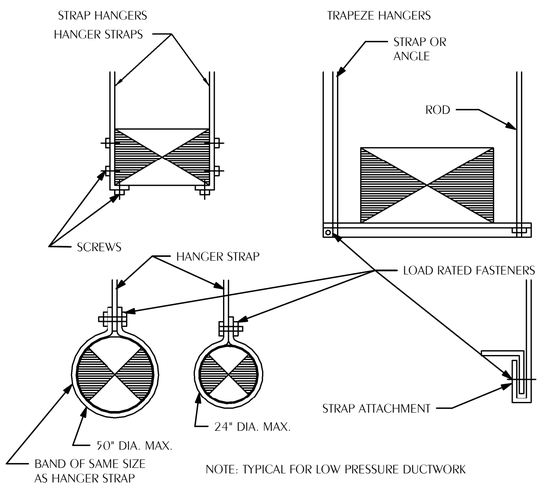
NOTES:

FLEX DUCT SHALL BE NO LONGER THAN 5'-0". FLEXIBLE DUCT SHALL HAVE REINFORCED, METALIZED POLYESTER JACKET WITH NO FIBERGLASS EROSION IN THE AIRSTREAM AND AN ENCAPUSLATED WIRE HELIX. FLEX DUCT SHALL HAVE OPERATING PRESSURE OF 6" W.G. AND NEGATIVE OPERATING PRESSURE OF 0.75" W.G. FLEX DUCT SHALL HAVE R-VALUE OF R-6 AND MEET REQUIREMENTS OF UL-181, 2023 FLORIDA ENERGY CODE, NFPA 90A AND NFPA 90B. ATCO 36 OR APPROVED EQUAL.

PROVIDE 24X24 LAY IN PANEL FOR DIFFUSERS IN LAY IN CEILINGS.

PROVIDE BEVELED MOUNTING FRAME FOR DIFFUSERS IN HARD CEILINGS.

2 M-201 **TYPICAL CEILING DIFFUSER DETAILS**
SCALE: NONE



NOTE: TYPICAL FOR LOW PRESSURE DUCTWORK

3 M-201 **TYPICAL DUCT HANGER DETAILS**
SCALE: NONE

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HVAC DETAILS

M-201

POWER DISTRIBUTION

	SURFACE MOUNTED PANELBOARD; 120/208V; MT 72" AFF TO TOP
	FLUSH MOUNTED PANELBOARD; 120/208V; MT 72" AFF TO TOP
	SURFACE MOUNTED PANELBOARD; 277/480V; MT 72" AFF TO TOP
	FLUSH MOUNTED PANELBOARD; 277/480V; MT 72" AFF TO TOP
T	DRY TYPE TRANSFORMER; SIZE AND RATING AS NOTED
	DISCONNECT SWITCH; AMP SIZE AS NOTED;
	FUSED DISCONNECT SWITCH; AMP SIZE AS NOTED; FUSE SIZE PER EQUIPMENT NAMEPLATE DATA
PB	PULL BOX WITH ENGRAVED LID; REFER TO DETAILS.
J	JUNCTION BOX; MOUNTED IN FLOOR
J	JUNCTION BOX; MOUNTED ABOVE CEILING
J	JUNCTION BOX; MOUNTED FLUSH IN WALL WITH BLANK COVER
HD	JUNCTION BOX FOR HAND DRYER; MOUNTED FLUSH IN WALL
	DISCONNECT SWITCH NOMENCLATURE NUMBER OF POLES XX/XXX AMPERE RATING — NEMA RATING

RACEWAYS

	CONDUIT CAP
UP	CONDUIT TURNED UP
DN	CONDUIT TURNED DOWN
	RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING
	RACEWAY INSTALLED CONCEALED IN FLOOR SLAB AND/OR BELOW GRADE
	RACEWAY INSTALLED EXPOSED
	FLEXIBLE CONDUIT CONNECTION
	CONDUIT STUB UP WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT

WIRE DESIGNATIONS

A-1 'B'	A-1 ADJACENT TO ARROW INDICATES HOMERUN OF CIRCUIT NO. 1 TO PANEL A; "B" INDICATES FIXTURE TYPE; MARKS ACCROSS RACEWAY RUN INDICATES THE NUMBER OF NO. 12 CONDUCTORS; UNLESS NOTED OTHERWISE NO MARKS INDICATES TWO NO.12 CONDUCTORS AND ONE NO. 12 GREEN GROUND CONDUCTOR IN 1/2" CONDUIT (2#12 & 1#12 GND-1/2"C)
	TICK MARKS REPRESENT WIRE COUNT AS INDICATED. EACH TICK MARK REPRESENTS 1 PHASE CONDUCTOR AND/OR GROUNDED (NEUTRAL) CONDUCTOR. DOTTED TICK MARK REPRESENTS EQUIPMENT GROUNDING CONDUCTOR. UNLESS NOTED OTHERWISE, NO MARKS INDICATES TWO NO. 12 CONDUCTORS AND ONE NO. 12 GREEN GROUND CONDUCTOR IN 1/2" CONDUIT (2#12 & 1#12 GND-1/2"C)

RECEPTACLES

CEILING	FLOOR	WALL	
			SINGLE RECEPTACLE, 125 V, 20 A; NEMA 5-20R; HUBBELL SERIES HBL53611
			DUPLEX RECEPTACLE, 125 V, 20 A; NEMA 5-20R; HUBBELL SERIES HBL5352
			QUAD - 2 DUPLEX RECEPTACLE, 125 V, 20 A; NEMA 5-20R; HUBBELL SERIES HBL5352
			TAMPER-RESISTANT DUPLEX RECEPTACLE, 125 V, 20 A; NEMA 5-20R; HUBBELL SERIES BR20'xx'TR
			DUPLEX GFCI RECEPTACLE, 125 V, 20 A; NEMA 5-20R; HUBBELL SERIES GF5362
			TAMPER-RESISTANT DUPLEX GFCI RECEPTACLE, 125 V, 20 A; NEMA 5-20R; HUBBELL SERIES GFTR20
			TAMPER-RESISTANT QUAD GFCI RECEPTACLE, 125 V, 20 A; NEMA 5-20R; HUBBELL SERIES GFTR20
			SPD DUPLEX RECEPTACLE, 125 V, 20 A; NEMA 5-20R; HUBBELL SERIES HBL5362SA
			FLOOR BOX WITH POWER AND DATA.
		U	DUPLEX RECEPTACLE WITH USB CHARGER RECEPTACLE, 125 V, 20 A; 3 POLE GND; MOUNT 18" TO C/L UNLESS NOTED OTHERWISE 3 AMPS, USB 5VDC. HUBBELL USB 20x2W, NEMA 5-20R
		X	SPECIAL TYPE RECEPTACLE 'X' DENOTES NEMA TYPE A = 208V, 30A, 3P, 3W, VERIFY NEMA TYPE WITH OWNER/ARCHITECT, HUBBELL SERIES HBL9430A B = 120V, 30A, 2P, 3W, NEMA L5-30R; ISOLATED GROUND; #10 THWN WIRE; HUBBELL SERIES HBL2610

DESIGNATIONS

WP	LETTERS "WP" ADJACENT TO SYMBOL INDICATES RECEPTACLE WITH WEATHERPROOF COVER; PASS AND SEYMOUR WIUFC10S COVER/BOX.
+XX	LETTERS +XX" ADJACENT TO SYMBOL INDICATES RECEPTACLE MOUNTING HEIGHT. WHEN NO HEIGHT IS INDICATED, MOUNT 18" AFF. +AC" = ABOVE COUNTER. +CAB" = VERIFY HEIGHT FOR CABINET WITH CONTRACTOR. +DF" = VERIFY HEIGHT FOR DRINKING FOUNTAIN WITH CONTRACTOR. +MEN" = VERIFY HEIGHT FOR MENU BOARD WITH OWNER. +REF" = VERIFY HEIGHT FOR REFRIGERATOR WITH MANUFACTURER. +TV" = VERIFY HEIGHT OF TV WITH OWNER.

CONTROLS

S	WALL SWITCH; 120/277V; 20A; 1 POLE; A.C. ONLY; MT 48" AFF TO C/L
S_2	WALL SWITCH; 2 POLE
S_3	WALL SWITCH; 120/277V; 20A; 3 WAY; A.C. ONLY; MT 48" AFF TO C/L; HUBBELL SERIES HBL1223
S_4	WALL SWITCH; 120/277V; 20A; 4 WAY; A.C. ONLY; MT 48" AFF TO C/L; HUBBELL SERIES HBL1224
S_M	WALL SWITCH; 120/277V; 20A; OCCUPANCY SENSOR DUAL TECHNOLOGY MULTI-WAY TYPE; MT 48" AFF TO C/L; REFER TO SPECS
S_{LV}	LOW VOLTAGE WALL SWITCH; MT 48" AFF TO C/L; REFER TO SPECS; SEE LIGHTING CONTROL DETAILS
MS	MOTOR CONTROL SWITCH; 120V; 30A; 2 POLE; A.C. ONLY; NEAR OR ON EQUIPMENT BEING SERVED; HUBBELL SERIES HBL7832D.
WP MS	NEMA 3R MOTOR CONTROL SWITCH; 120V; 30A; 2 POLE; A.C. ONLY; NEAR OR ON EQUIPMENT BEING SERVED; HUBBELL SERIES HBL13R22D.
	RED MUSHROOM PUSH-BUTTON WITH KEY RELEASE; MT. 60" AFF TO C/L. LABEL 'EMERGENCY STOP', EQUAL TO SQUARE D MODEL X86AS9345B
P	OCCUPANCY SENSOR POWER PACK; MOUNT ABOVE CEILING; REFER TO LIGHTING CONTROL DETAILS.
EM	MINI-INVERTER; MOUNT IN ACCESSIBLE LOCATION ABOVE CEILING; REFER TO LIGHTING CONTROL DETAILS.
R	RELAY FOR HVAC UNIT CONTROL; ACTIVATION IN CONJUNCTION WITH RESTROOM LIGHTING CIRCUIT(S) TO TURN ON EXHUAST FAN. CONTACTS RATED 15 AMPS, 208 VOLTS. COIL RATED 277 VOLTS. DUAL INPUTS.
	LOW VOLTAGE DAYLIGHT SENSOR; CEILING MOUNTED
	LOW VOLTAGE VACANCY SENSOR; 360° DUAL-TECHNOLOGY TYPE; CEILING MOUNTED
	LOW VOLTAGE OCCUPANCY SENSOR; 360° DUAL-TECHNOLOGY TYPE; CEILING MOUNTED
	LOW VOLTAGE VACANCY SENSOR; WALL MOUNTED
	LOW VOLTAGE OCCUPANCY SENSOR; WALL MOUNTED

LIGHTING

	CEILING FIXTURE
	WALL BRACKET FIXTURE
	PENDANT LIGHT FIXTURE
	POLE MOUNTED FIXTURE
	2' X 2' TROFFER FIXTURE; ARROW INDICATES LAMP DIRECTION; SEE SCHEDULE FOR MOUNT TYPE
	2' X 2' TROFFER FIXTURE WITH INTEGRAL EMERGENCY BATTERY OR CONNECTED TO AN EMERGENCY CIRCUIT AS INDICATED; ARROW INDICATES LAMP DIRECTION; SEE SCHEDULE FOR MOUNT TYPE
	2' X 4' TROFFER FIXTURE; SEE SCHEDULE FOR MOUNT TYPE
	2' X 4' TROFFER FIXTURE WITH INTEGRAL EMERGENCY BATTERY OR CONNECTED TO AN EMERGENCY CIRCUIT AS INDICATED; SEE SCHEDULE FOR MOUNT TYPE
	STRIP FIXTURE; SHADING INDICATES INTEGRAL EMERGENCY BATTERY OR CONNECTED TO AN EMERGENCY CIRCUIT AS INDICATED
	TWIN HEAD EMERGENCY BATTERY UNIT
	EXIT SIGN; CEILING MOUNTED; ARROWS AS NOTED; SHADED SECTION INDICATES LIGHTED FACE OF EXIT SIGN
	EXIT SIGN; BACK OR SIDE MOUNTED; ARROWS AS NOTED; SHADED SECTION INDICATES LIGHTED FACE OF EXIT SIGN
	CEILING FAN; REFER TO LIGHTING SCHEDULE FOR FAN/LIGHT COMBINATION MODELS; REFER TO MECH SCHEDULE FOR FAN ONLY MODELS.

MISCELLANEOUS SYSTEMS

F	FIRE ALARM SYSTEM MANUAL PULL STATION; MT 48" AFF TO C/L
	FIRE ALARM SYSTEM SIGNAL SPEAKER/STROBE; MT 80" AFF TO BOTTOM, '110' INDICATES CANDELA RATING, NO NUMBER INDICATES 75 CANDELA MINIMUM
WP	FIRE ALARM SYSTEM EXTERIOR, WEATHERPROOF SPEAKER/STROBE; MT 90" AFF TO BOTTOM
	FIRE ALARM SYSTEM STROBE; MT 80" AFF TO BOTTOM, '110' INDICATES CANDELA RATING, NO NUMBER INDICATES 75 CANDELA MINIMUM
H	FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
	FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
	FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR
H	FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER; MT 66" AFF TO C/L
P	PHOTOCELL; TORK MODEL 2101 (120V) OR 2104 (277V)
TS	DIGITAL TIMESWITCH WITH RESERVE POWER; REFER TO LIGHTING CONTROL DIAGRAM FOR TYPE
SD	SMOKE DAMPER WITH FIRE ALARM CONNECTION.
FSD	FIRE/SMOKE DAMPER WITH FIRE ALARM CONNECTION.
	FIRE SPRINKLER SYSTEM FLOW / TAMPER SWITCH.

SHEET INDEX

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
B. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
C. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING-IN WALL FOR SWITCHES.
D. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
E. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
F. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
G. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
H. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS - SIZE PER N.E.C.
I. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA WHETHER NEW OR EXISTING THAT ARE PART OF THE ELECTRICAL SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.
J. PROVIDE CONCRETE MARKER AT END OF ALL CONDUITS STUBBED OUT OF BUILDING FOR FUTURE USE. MARKER SHALL BE 6" DIA X 18" HIGH WITH 2" ABOVE FINISHED GRADE. INSCRIBE IN TOP OF MARKER "E" FOR ELECTRICAL,"T" FOR TELEPHONE,"V" FOR TV CABLE,"F" FOR FIRE ALARM, AND "IC" FOR INTERCOM.
K. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
L. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
M. FIRE ALARM LOW VOLTAGE SOURCE AND BATTERY STANDBY SHALL ENERGIZE ALL ITEMS IN FIRE ALARM SYSTEM THAT REQUIRE POWER.
N. VERIFY EXACT LOCATION OF ALL FLOOR OUTLETS WITH THE ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGHING-IN.
O. FINAL CONNECTION TO ALL DRY TYPE TRANSFORMERS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
P. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FAULT CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND SHALL MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.24. REFER TO TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL.
Q. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FAULT LABELS PER NFPA 70E ARTICLE 110.16 FOR NEW EQUIPMENT. THE OWNER SHALL PROVIDE AVAILABLE CALCULATION DATA FOR THE EXISTING EQUIPMENT IN THE ELECTRICAL SYSTEM. REFER TO TYPICAL ARC FLASH HAZARD LABEL DETAIL.
R. PROVIDE NEUTRAL AT ALL LINE VOLTAGE SWITCH LOCATIONS PER N.E.C. 404.2(C).
S. PROVIDE 'LSI' TRIP UNITS FOR ALL BREAKERS GREATER THAN OR EQUAL TO 200A.
T. PROVIDE BUSHINGS ON ALL CONDUITS.

ABBREVIATIONS

1P	-	ONE POLE
2P	-	TWO POLE
3P	-	THREE POLE
4P	-	FOUR POLE
A, AMP	-	AMPERE
AC	-	ALTERNATING CURRENT, AIR CONDITIONER
AFF	-	ABOVE FINISHED FLOOR
AFG	-	ABOVE FINISHED GRADE
AHU	-	AIR HANDLING UNIT
AIC	-	AMPERE INTERRUPTING CAPACITY
AL	-	ALUMINUM
ARCH	-	ARCHITECT
AWG	-	AMERICAN WIRE GAUGE
BLDG	-	BUILDING
C	-	CONDUIT
CB	-	CIRCUIT BREAKER
CKT	-	CIRCUIT
C.T.	-	CURRENT TRANSFORMER
CU	-	COPPER
DC	-	DIRECT CURRENT
DISC	-	DISCONNECT
DN	-	DOWN
DWG	-	DRAWING
EC	-	ELECTRICAL CONTRACTOR
EF	-	EXHAUST FAN
ELEC	-	ELECTRICAL
EWC	-	ELECTRIC WATER COOLER
FA	-	FIRE ALARM
FLA	-	FULL LOAD AMPS
FLEX	-	FLEXIBLE
FURN	-	FURNITURE
GC	-	GENERAL CONTRACTOR
GFCI	-	GROUND FAULT CIRCUIT INTERRUPTER
GND	-	GROUNDED
HP	-	HORSEPOWER
HVAC	-	HEATING, VENTILATION AND AIR CONDITIONING
HZ	-	HERTZ (CYCLE) PER SECOND
JB	-	JUNCTION BOX
KCMIL	-	THOUSAND CIRCULAR MILS
KVA	-	KILOVOLT AMPERE
KW	-	KILOWATT
LTG	-	LIGHTING
LV	-	LOW VOLTAGE
MCB	-	MAIN CIRCUIT BREAKER
MLO	-	MAIN LUGS ONLY
MTD	-	MOUNTED
MTG	-	MOUNTING
NEC	-	NATIONAL ELECTRICAL CODE
ϕ	-	PHASE
PNL	-	PANELBOARD
PRI	-	PRIMARY
RTU	-	ROOFTOP UNIT
SEC	-	SECONDARY
SW	-	SWITCH
UG	-	UNDERGROUND
V	-	VOLT
W	-	WATT
XFMR	-	TRANSFORMER
+72	-	MOUNTING HEIGHT IN INCHES TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE

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NORTH BAY HAVEN CHARTER ACADEMY
BLEACHERS & CONCESSION BUILDING

1 BUCCANEER DRIVE
PANAMA CITY, FL 32404

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25025**
Dated	08.06.2025

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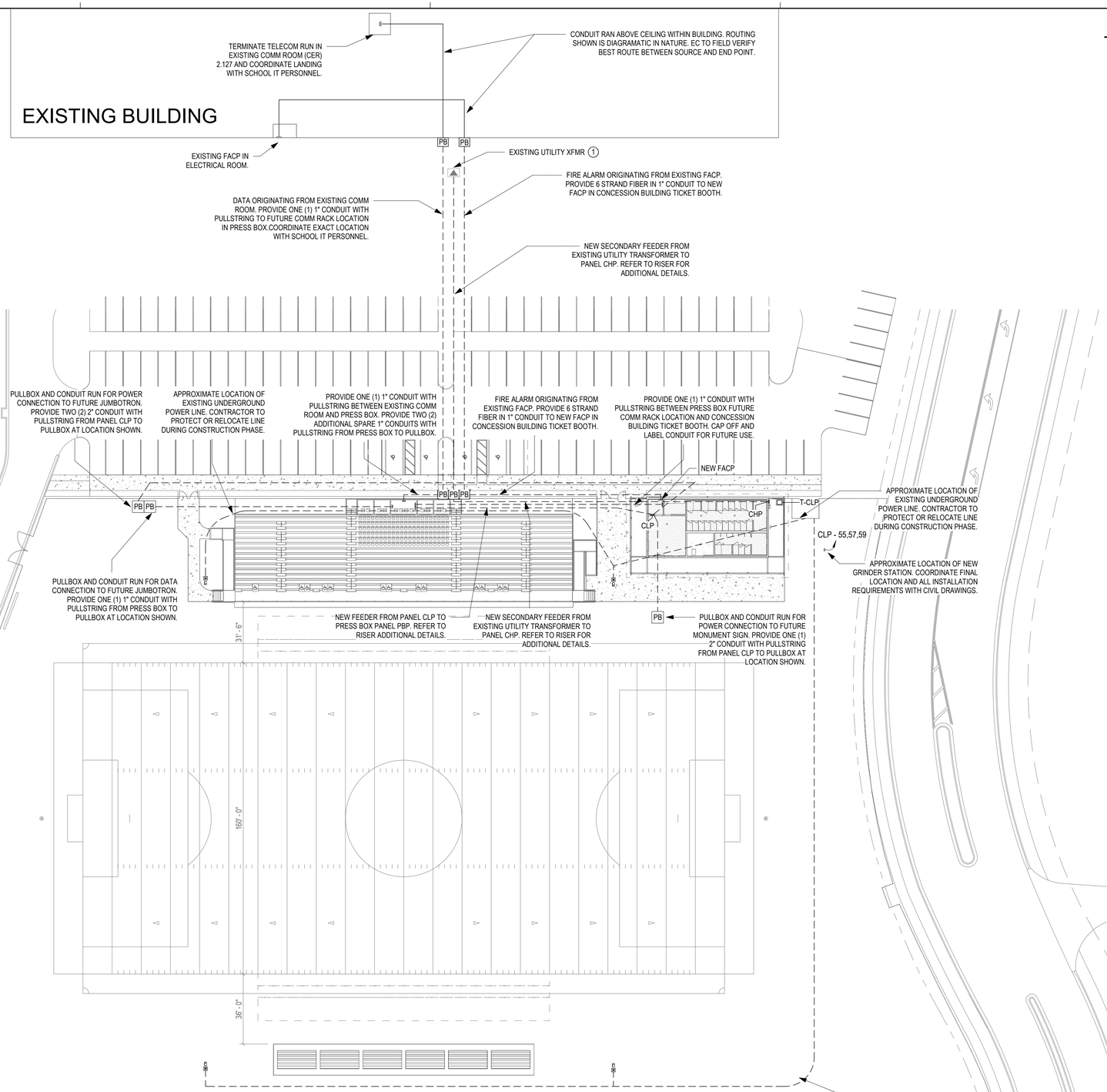
Daniel J. White; FL PE No.73790
Caleb W. Leonard; FL PE No.91782

25030
Job No.

ELECTRICAL LEGENDS AND NOTES

E-001



KEYNOTES

1 COORDINATE WITH SCHOOL PERSONNEL TO MINIMIZE DOWNTIME OF TRANSFORMER FOR ELECTRICAL TIE-IN. COORDINATE WITH LOCAL UTILITY COMPANY TO ENSURE EXISTING TRANSFORMER CAN HANDLE THE ADDITIONAL LOAD. NOTE THAT AN ADDIITONAL LOAD OF 36KVA IS EXPECTED WITHIN THE NEXT YEAR.

LEVEL 1 - ELECTRICAL SITE PLAN

1" = 30'-0"

0 15' 30' 60'

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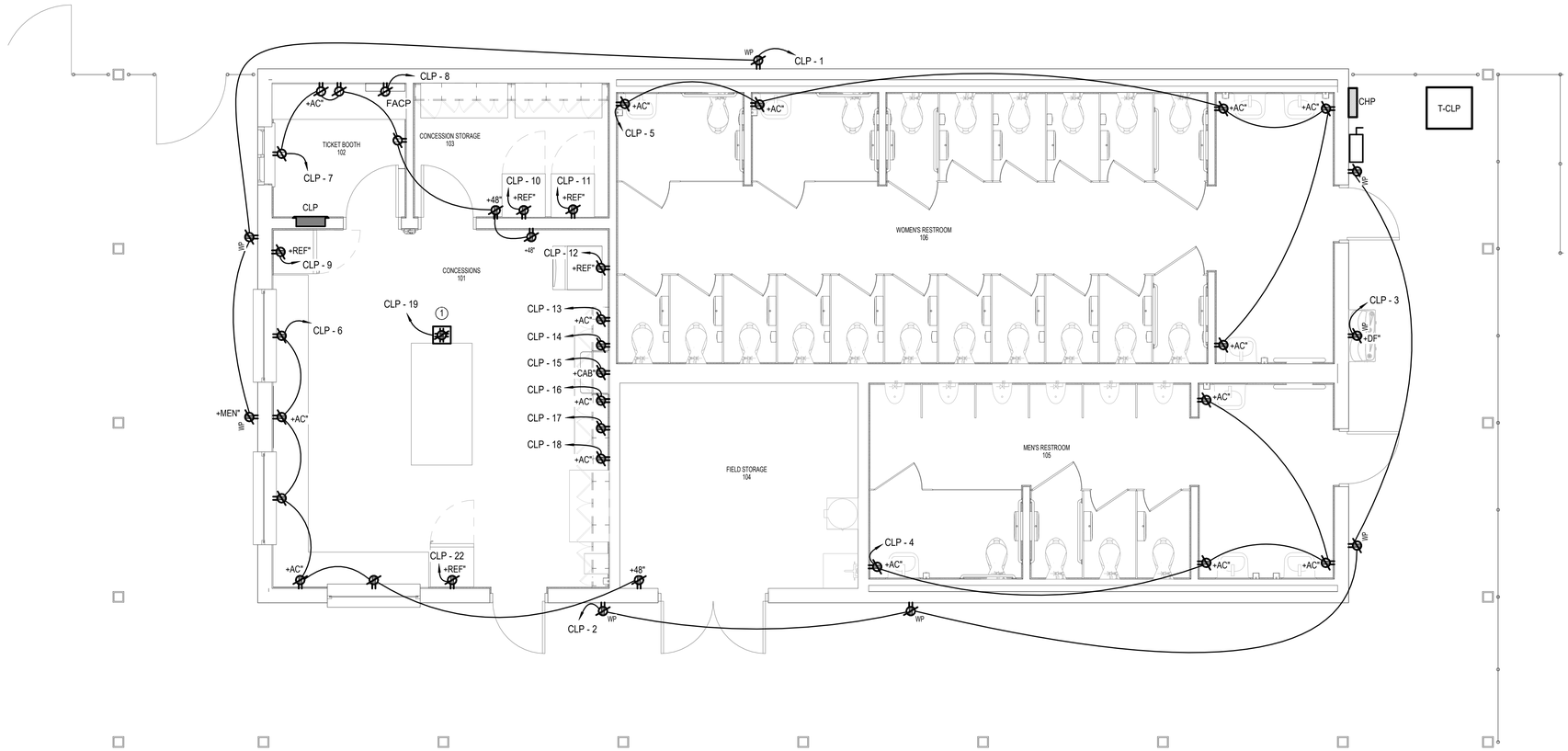
ELECTRICAL SITE PLAN

E-100

KEYNOTES

1 FLOOR MOUNTED POWER PEDESTAL WITH TWO (2) GFCI DUPLEX RECEPTACLES. REFER TO DETAILS FOR ADDITIONAL INFORMATION.



LEVEL 1 - POWER PLAN

1/4" = 1'-0"

0 2' 4' 8'

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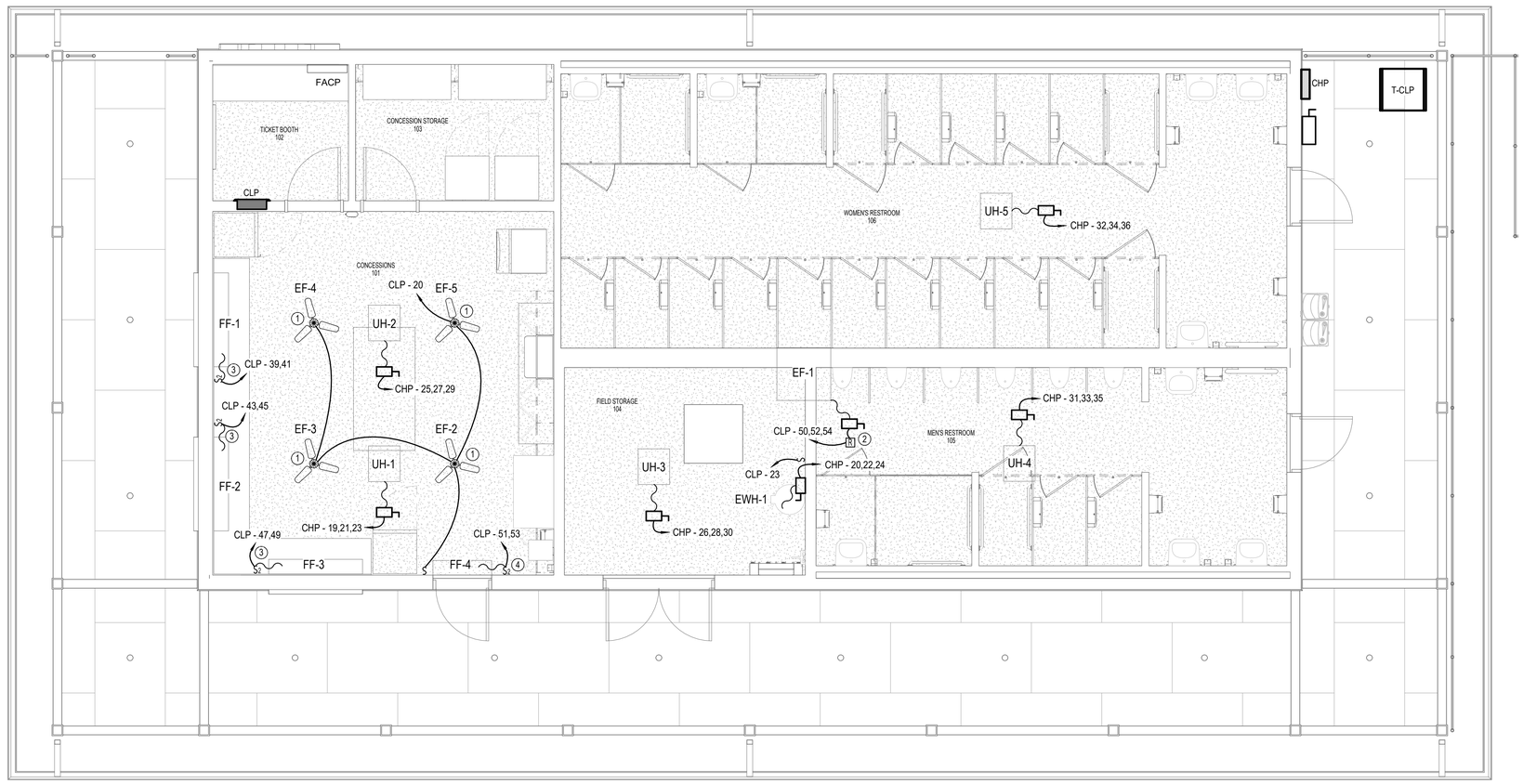
25030 Job No.

LEVEL 1 - POWER PLAN

E-101

KEYNOTES

1. PROVIDE CEILING DUPLEX RECEPTACLE DIRECTLY ABOVE EACH 18 INCH CEILING FAN FOR DIRECT CONNECTION. ALL POWER TO BE CONTROLLED VIA LOCAL WALL SWITCH. ROUTE AND SECURE EXCESS CORD TO BE MINIMALLY EXPOSED AND CLEAR OF FAN OPERATION.
2. PROVIDE RELAY TO CONTROL EXHUAST FAN EF-1. UNIT SHALL ACTIVATE WHEN EITHER RESTROOM'S SENSOR(S) DETECT OCCUPANCY. COORDINATE INTEGRATION WITH MECHANICAL CONTRACTOR.
3. INSTALL CONTROL SWITCH ABOVE COUNTER TO CONTROL OVERHEAD AIR CURTAIN. EACH AIR CURTAIN SHALL ONLY BE OPERATIONAL WHEN THE RESPECTIVE WINDOW IS IN USE.
4. AIR CURTAIN TO BE TIED INTO DOOR CONTACTS FOR ACTIVATION UPON OPENING OF DOOR.



LEVEL 1 - MECHANICAL POWER PLAN

1/4" = 1'-0"

0 2' 4' 8'

BID ALTERNATE 1:
ALL PRICING ASSOCIATED WITH INSTALLING AND PROVIDING POWER TO THE AIR CURTAINS IS TO BE SEPARATED AS AN OPTIONAL ADDER. DO NOT INCLUDE AIR CURTAIN PRICING IN THE BASE BID.

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Job No.

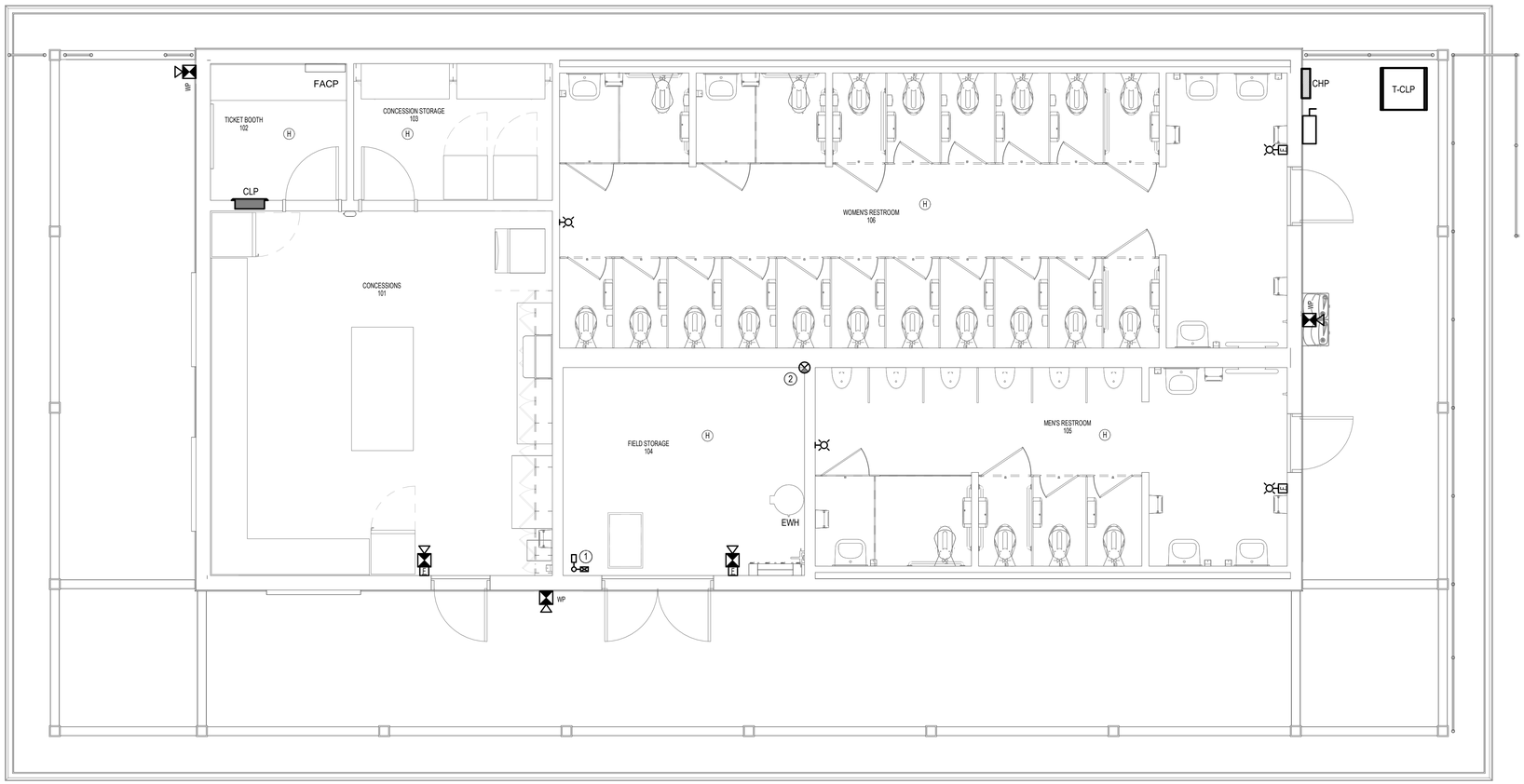
LEVEL 1 - MECHANICAL POWER PLAN

E-102

KEYNOTES

1 PROVIDE FLOW AND TAMPER SWITCHES; COORDINATE FINAL QUANTITY AND LOCATION WITH FIRE PROTECTION INSTALLER.

2 DUCT SMOKE DETECTOR FOR EXHAUST FAN EF-1. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.



LEVEL 1 - MISCELLANEOUS SYSTEMS PLAN

1/4" = 1'-0"

0 2' 4' 8'

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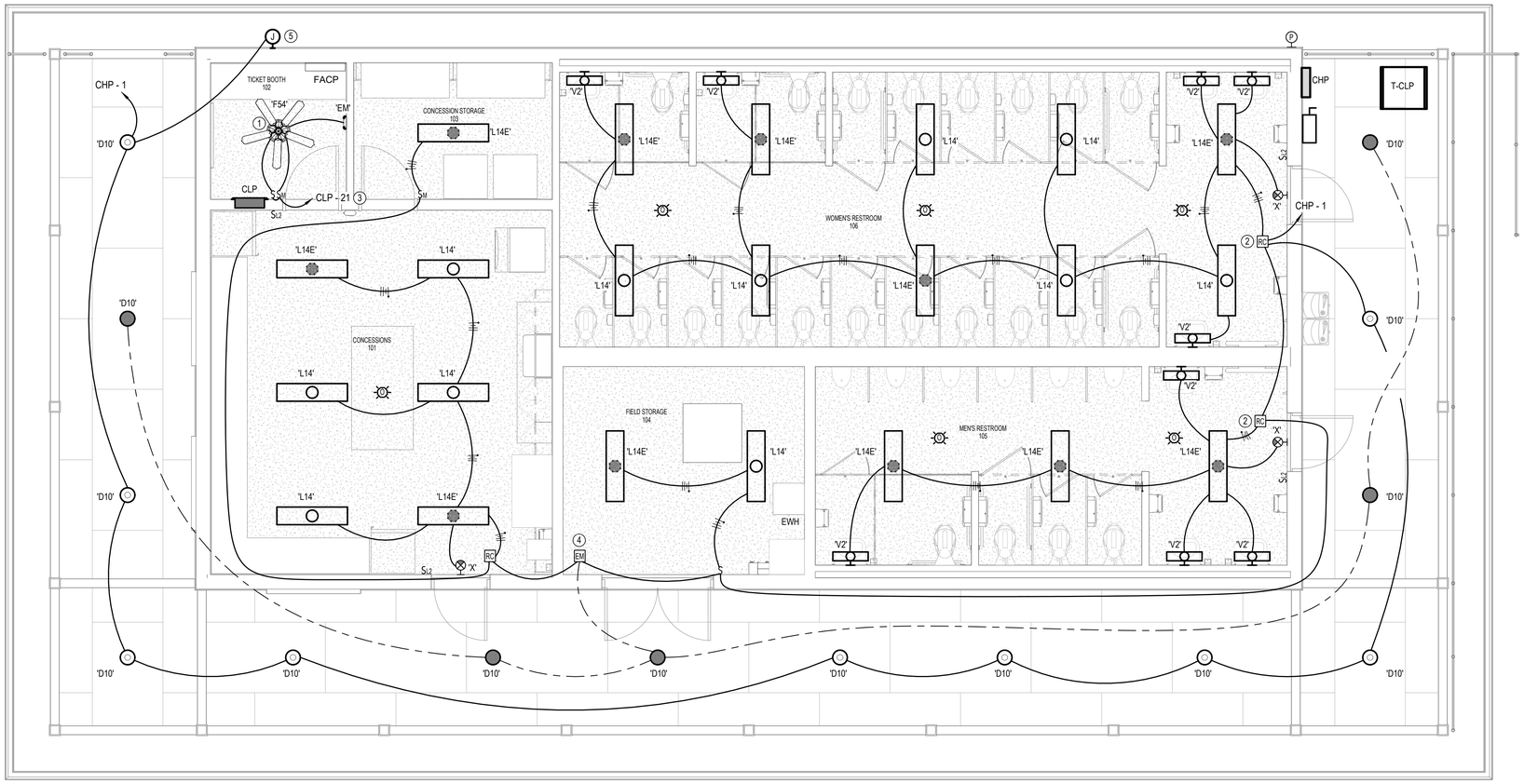
25030 Job No.

LEVEL 1 - MISCELLANEOUS SYSTEMS PLAN

E-103



KEYNOTES

1. MOTION SWITCH TO CONTROL LIGHT AND TOGGLE SWITCH TO CONTROL FAN.
2. EXHUAST FAN EF-1 TO BE CONTROLLED VIA LOCAL LIGHTING CONTROLS. WHEN EITHER RESTROOM'S SENSOR(S) DETECT OCCUPANCY, UNIT SHALL ACTIVATE. REFER TO DETAILS AND E-102 FOR ADDITIONAL INFORMATION.
3. VERIFY VOLTAGE AVAILABILITY FOR FIXTURE 'F54'. IF 277V VARIANT IS AVAILABLE, PROVIDE SUCH AND RECIRCUIT TICKET BOOTH LIGHTING TO RECEIVE POWER FROM EXISTING LIGHTING CIRCUIT CHP-1.
4. MOUNT MINI-INVERTER HIGH ON THE WALL ABOVE THE WATER HEATER DISCONNECT IN THE STORAGE ROOM.
5. JUNCTION BOX FOR BUILDING SIGNAGE LIGHTING. COORDINATE VOLTAGE, LOCATION, AND INSTALLATION WITH SIGNAGE INSTALLER.

LEVEL 1 - LIGHTING PLAN

1/4" = 1'-0"

0 2' 4' 8'

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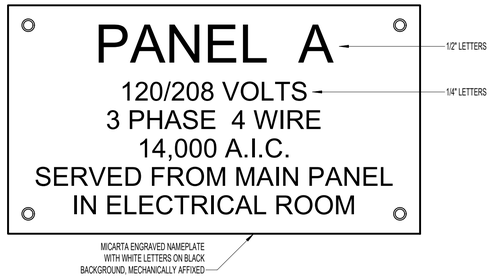
25030
Job No.

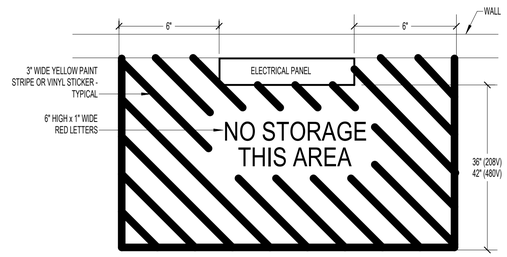
LEVEL 1 - LIGHTING PLAN

E-104



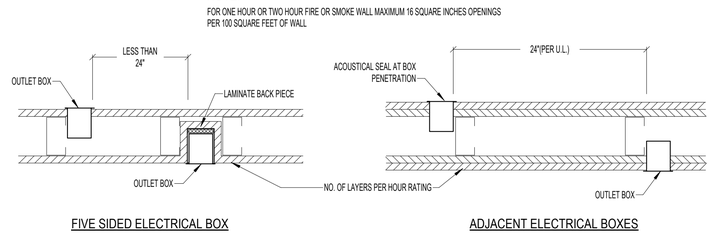
Electrical Equipment Nameplate

NTS



Panel Clearance

NTS

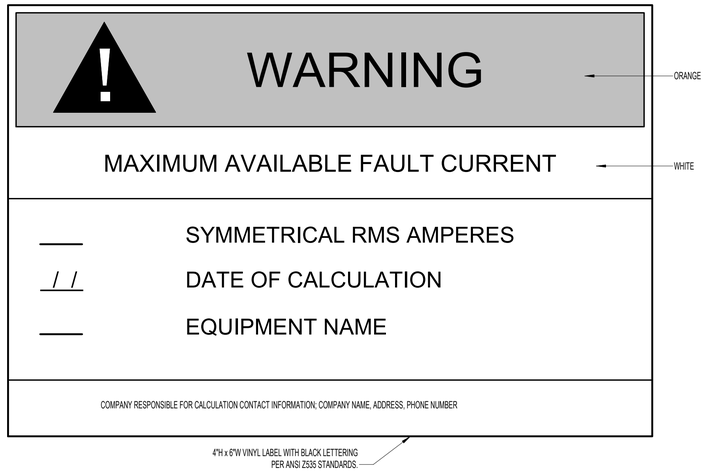


FIVE SIDED ELECTRICAL BOX

ADJACENT ELECTRICAL BOXES

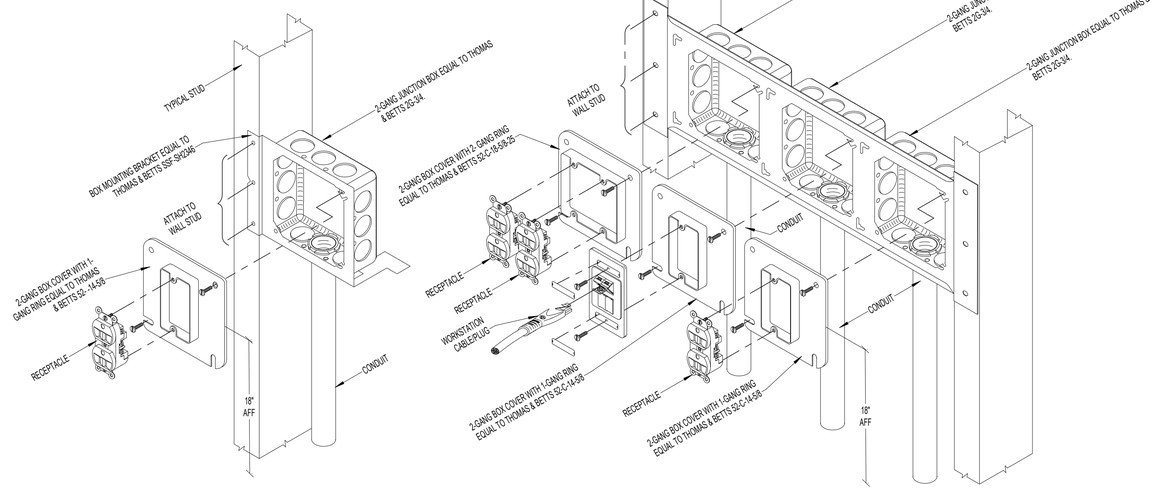
Wall Details - Electrical Box Installation

NTS



Service Equipment Fault Current Label

NTS

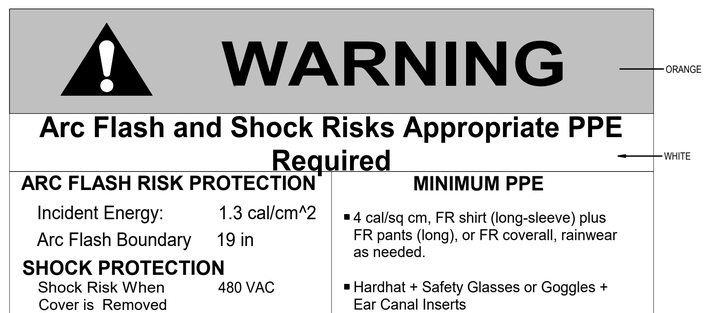


TYPICAL POWER OUTLET INSTALLATION

TYPICAL POWER/COMMUNICATIONS OUTLET INSTALLATION

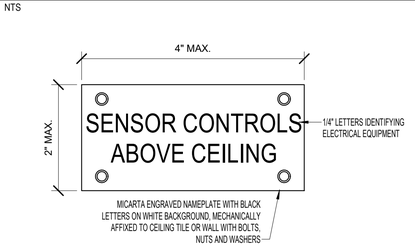
Outlet Installation

NTS



Arc Flash Hazard Label

NTS

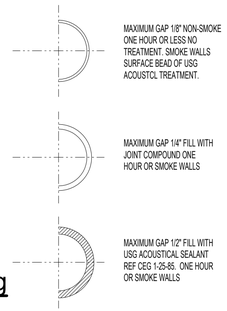


Elect Equip Nameplate - Above Ceiling

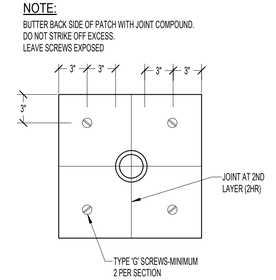
NTS

Disconnect Switch Nomenclature

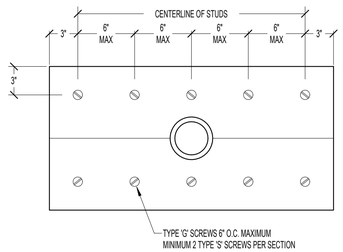
NTS



SMALL DIAMETER GAPS IN ONE-HOUR WALLS



OPENINGS UP TO 3" DIA.



OPENINGS OVER 3" DIA.

Wall Penetrations

-APPLIES TO ALL CORRIDOR, SMOKE AND FIRE RATED WALLS

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FOR PERMIT

NORTH BAY HAVEN CHARTER ACADEMY
BLEACHERS & CONCESSION BUILDING

1 BUCCANEER DRIVE
PANAMA CITY, FL 32404

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25025**
Dated	08.06.2025

HG Engineers
621 N. Tyndall Pkwy, Suite C
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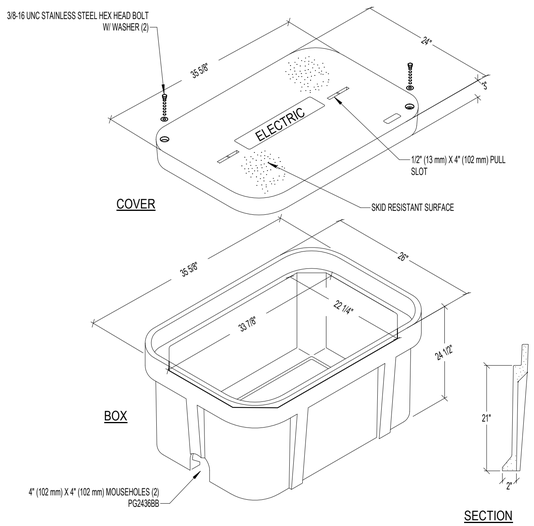
Daniel J. White; FL PE No.73790
Caleb W. Leonard; FL PE No.91782

25030
Job No.

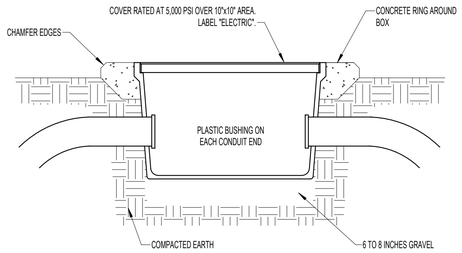
ELECTRICAL DETAILS

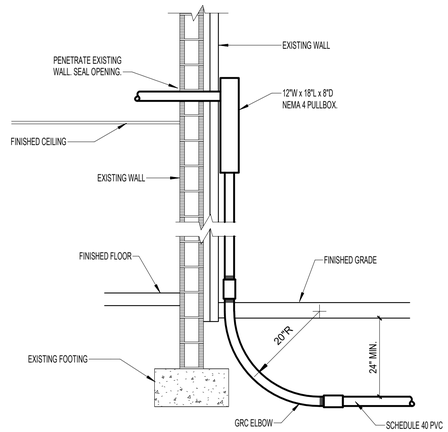
E-501



Underground Pullbox

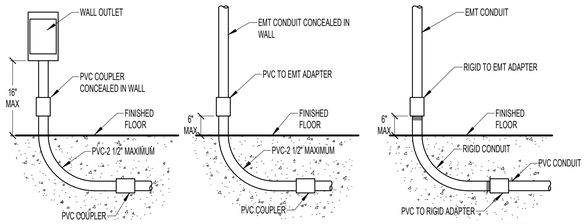
NTS





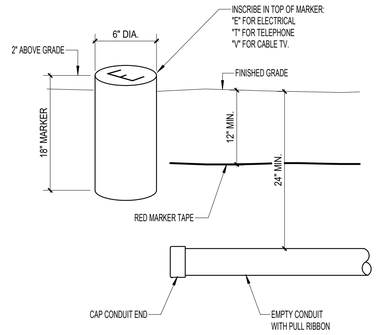
Existing Building Conduit Entry

NTS



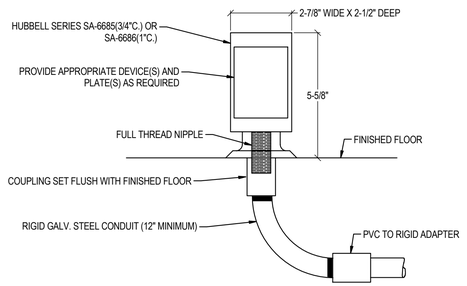
PVC Stub Up Details

NTS



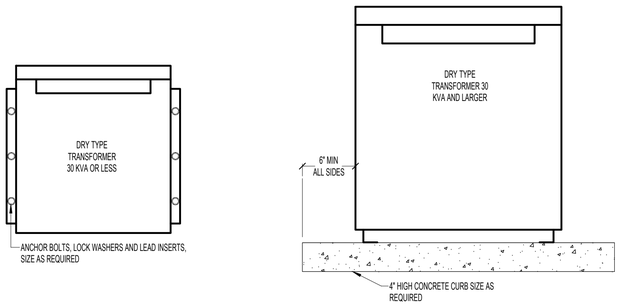
Conduit Marker

NTS



Floor Power Pedestal

NTS



Transformer - Dry Type Mounting

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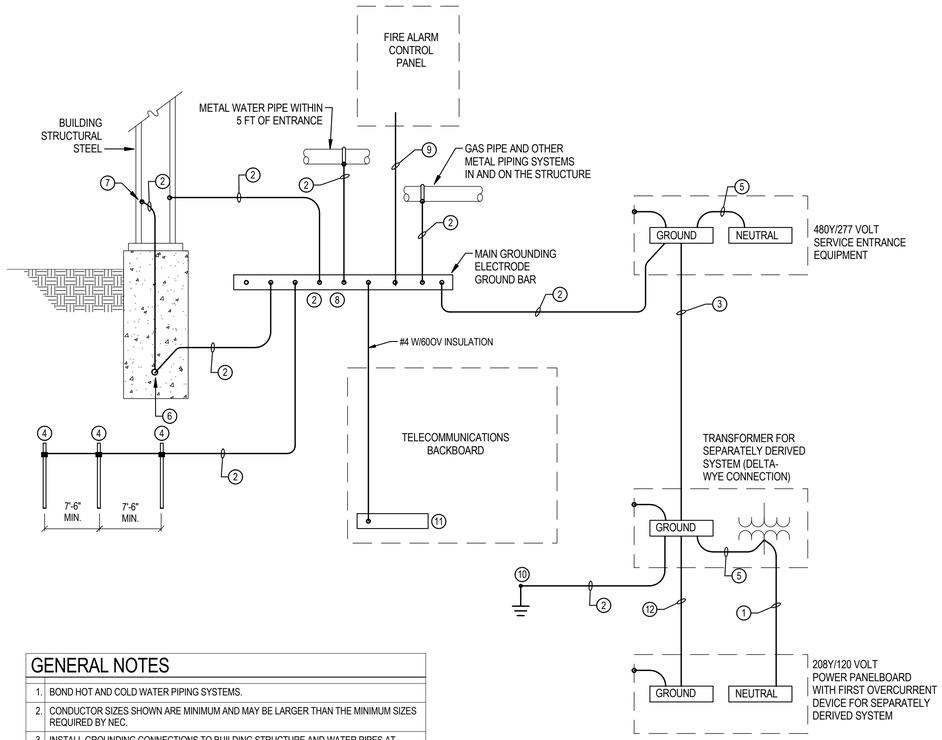
25030 Job No.

ELECTRICAL DETAILS

E-502



SPECIAL NOTE

INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:

- BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN NO 4.
- BARE OR GALVANIZED REBARS THAT ARE MADE ELECTRICALLY CONTINUOUS USING COPPER JUMPERS NOT SMALLER THAN THE NEC REQUIRED GROUNDING ELECTRODE CONDUCTOR AND NOT SMALLER THAN NO 4 REBAR.

GROUNDING ELECTRODE SHALL BE INSPECTED AND VERIFIED BY THE ENGINEER PRIOR TO FILLING CONCRETE COVER.

GENERAL NOTES

1.	BOND HOT AND COLD WATER PIPING SYSTEMS.
2.	CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
3.	INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
4.	INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250-66 USING THE SERVICE PHASE CONDUCTOR SIZE.
5.	INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250-122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.

KEYNOTES

(1)	INSTALL GROUNDED (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUNDED CONDUCTOR.
(2)	INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250-66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN NO 4.
(3)	INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250-122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
(4)	10 FOOT MINIMUM X 3/4" DIAMETER COPPER CLAD STEEL SECTIONAL DRIVEN GROUND ROD.
(5)	INSTALL BONDING JUMPER WIRE THAT IS SIZED BASED ON NEC TABLE 250-66 OR 250.28(D)(1) USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE PHASE CONDUCTOR SIZE.
(6)	INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION PER NEC ARTICLE 250.52 (A) (3).
(7)	BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE COMPRESSION CONNECTORS THAT MEET IEEE 837 REQUIREMENTS OR USE EXOTHERMIC WELDS.
(8)	INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND ELECTRODE CONDUCTOR USING IRREVERSIBLE CONNECTORS OR EXOTHERMIC WELDS. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
(9)	FIRE ALARM CONTROL PANEL GROUND - #6 COPPER CONDUCTOR.
(10)	CONNECT TO NEAREST METAL STRUCTURAL GROUNDING ELECTRODE OR COLD WATER PIPE GROUNDING ELECTRODE IN ACCORDANCE WITH ARTICLES 250.30(A) (8) AND 250.104(D)(1) OF THE 2014 N.E.C.
(11)	INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED #4 COPPER CABLE AND COMPRESSION SPADE LUGS.
(12)	INSTALL SUPPLY SIDE BONDING JUMPER THAT IS SIZED BASED ON NEC TABLE 250.66 USIING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.

Grounding System Diagram 480Y-277V

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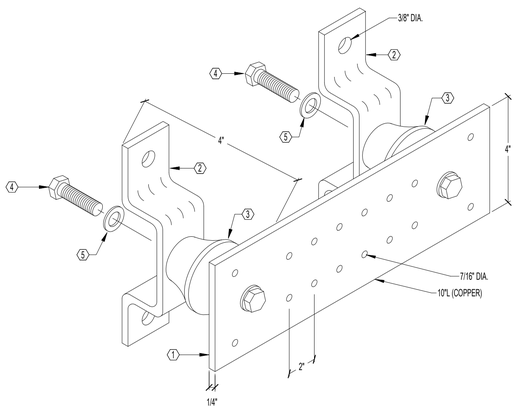

GROUND BAR NOTES:	
1	INSTALL ONE BAR AT EACH COMMUNICATIONS ROOM.
2	ROUTE 1#4 BARE CU IN 1"CONDUIT FROM GROUND BAR TO BUILDING ELECTRICAL SERVICE ENTRANCE GROUND.
3	CONNECT BARS WITH 1#6 BARE CU IN 1" CONDUIT.

NO.	DESCRIPTION
(1)	GROUND BAR
(2)	WALL MTG. BRACKET
(3)	INSULATORS
(4)	5/8"x1" H.H.C.S. BOLT
(5)	5/8" LOCKWASHER

Insulated Grounding Bar

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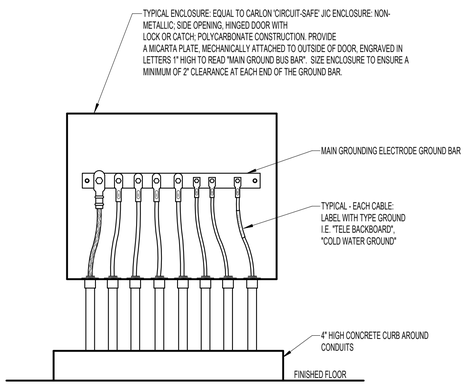

Grounding System Enclosure

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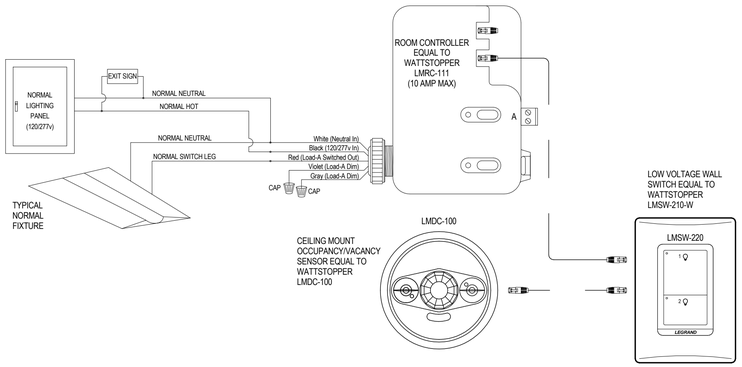
Caleb W. Leonard; FL PE No.91782

25030 Job No.

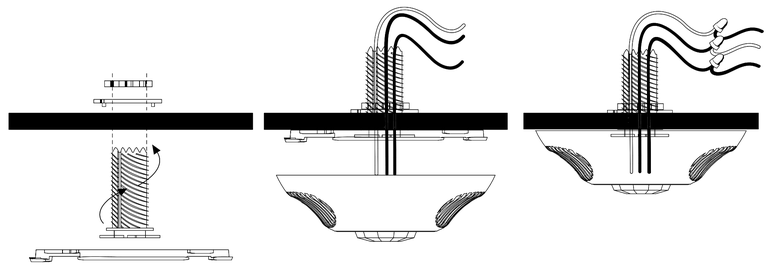
GROUNDING DETAILS

E-503



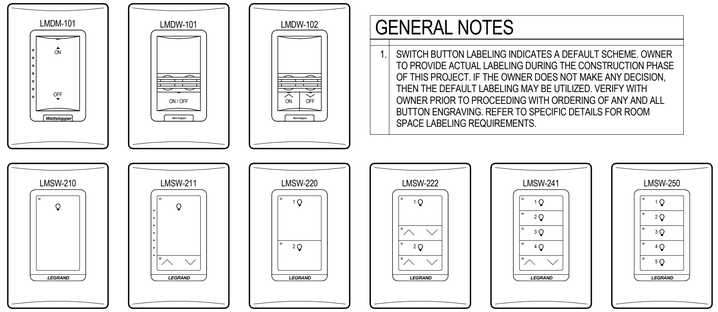
Lighting Control Detail - Without Dimming

NTS



Occupancy Sensor Mounting Detail

NTS

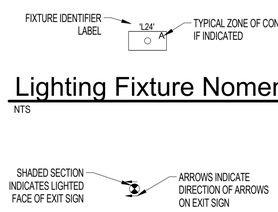


GENERAL NOTES

1. SWITCH BUTTON LABELING INDICATES A DEFAULT SCHEME. OWNER TO PROVIDE ACTUAL LABELING DURING THE CONSTRUCTION PHASE OF THIS PROJECT. IF THE OWNER DOES NOT MAKE ANY DECISION, THEN THE DEFAULT LABELING MAY BE UTILIZED. VERIFY WITH OWNER PRIOR TO PROCEEDING WITH ORDERING OF ANY AND ALL BUTTON ENGRAVING. REFER TO SPECIFIC DETAILS FOR ROOM SPACE LABELING REQUIREMENTS.

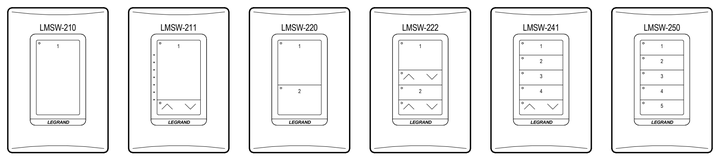
Lighting Control Detail - Switch Labeling

NTS



Lighting Fixture Nomenclature

NTS

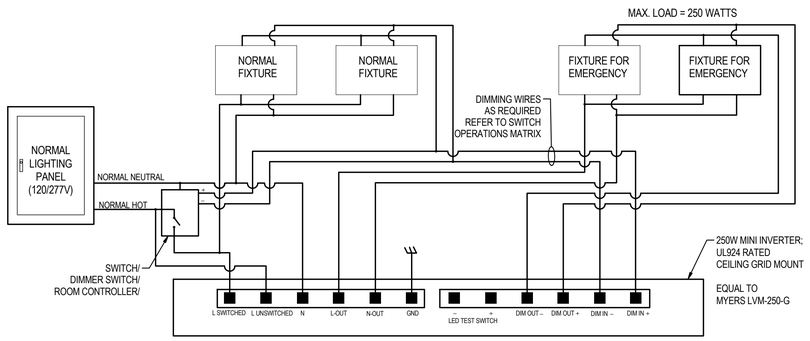


Lighting Control Detail - Switch Count

NTS

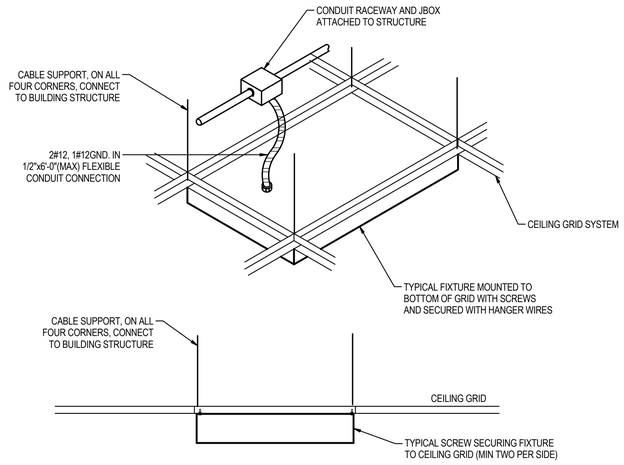
Exit Sign Nomenclature

NTS



Mini-Inverter Detail

NTS



Surface Mount Fixture Cable Support

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Caleb W. Leonard; FL PE No.91782

25030
Job No.

LIGHTING DETAILS

E-504

LIGHTING FIXTURE SCHEDULE

Project: #25030 - NBH BALL FIELD BLEACHERS & CONCESSION BUILDING

Note: Per electrical specifications, required alternate fixtures shall be submitted to the engineer for prior approval a minimum of (10) ten business days prior to bid date. Any required alternate fixtures not submitted for prior approval will not be reviewed.

Luminaire Designation	Manufacturer	Catalog Number	Connected Voltage	Luminaire Load (va)	Lamping Source	Color Rendering Index (CRI)	Kelvin Temperature	Mounting	Comments	Prior Approved Equal Required
D10	LIGHTOLIER	S10R-840-22-W-Z10U	277V	24.6	LED	80	4000K	CANOPY CEILING RECESSED		YES
EM	H.E. WILLIAMS	EMER/LED-WHT-SDT-D	120V	1.8	LED	---	---	GYPSUM WALL SURFACE	PROVIDE 277V IN LIEU OF 120V IF FIXTURE 'F54' IS AVAILABLE IN 277V.	YES
F54	MULE FANS	52029-19	120V	200	LED	80	4000K	GYPSUM CEILING SURFACE	UTILIZE 4" DOWNROD; VERIFY VOLTAGE AND PROVIDE 277V IN LIEU OF 120V, IF AVAILABLE.	YES
L14	H.E. WILLIAMS	ASM-4-L46-840-R-S-A-DIM-UNV	277V	33.9	LED	80	4000K	GYPSUM CEILING SEMI-RECESSED		YES
L14E	H.E. WILLIAMS	ASM-4-L46-840-R-S-A-EM/10WLP-DIM-UNV	277V	33.9	LED	80	4000K	GYPSUM CEILING SEMI-RECESSED		YES
V2	H.E. WILLIAMS	WMA-2-L20/840-AF-DIM-UNV	277V	15.3	LED	80	4000K	GYPSUM WALL SURFACE		YES
X	H.E. WILLIAMS	EXIT-R-EM-WHT-SDT-D	277V	2.5	LED	---	---	GYPSUM WALL SURFACE		YES

Lighting Space and Zones		Sequence of Operations									Low Voltage Switch Matrix (Button Labels to be designated by owner during installation)								
		CONTROL SCENARIOS									CONNECT TO NETWORKED ROOM CONTROLLER OR LIGHTING CONTROL PANEL				CONNECT TO NON-NETWORKED LOCAL ROOM CONTROL				
Space Type	Room Number	Manual On	Manual Off	Dimming	Timeclock On	Timeclock Off	Occupancy Sensor On	Vacancy Sensor Off	Daylight Harvesting	Photo Sensor On	S1.1 (1-Button)	S1.2 (2-Button)	S1.4 (4-Button)	S1.6 (6-Button)	S (Toggle, Line Voltage)	S3 (3-Way Toggle, Line Voltage)	S4 (4-Way Toggle, Line Voltage)	Sm (Integral Sensor, Line Voltage)	Remarks
CONCESSIONS	101	X	X				X	X				X						X	
TICKET BOOTH	102	X	X				X	X										X	
CONCESSIONS STORAGE	103	X	X				X	X										X	
FIELD STORAGE	104	X	X												X				
MEN'S RESTROOM	105	X					X	X				X							
WOMEN'S RESTROOM	106	X					X	X				X							
BUILDING CANOPY LIGHTING	N/A									X									
BUILDING SIGNAGE LIGHTING	N/A									X									

Room #	Low Voltage Switch Button Qty. (Switch Model #)	Zone of Control	Switch Button Number and Correlated Function...												Additional Notes
			Button #1		Button #2		Button #3		Button #4		Button #5		Button #6		
			Function	Label	Function	Label	Function	Label	Function	Label	Function	Label	Function	Label	
101	2	---	ON	ON	OFF	OFF	---	---	---	---	---	---	---	---	
105	2	---	ON	ON	OFF	OFF	---	---	---	---	---	---	---	---	
106	2	---	ON	ON	OFF	OFF	---	---	---	---	---	---	---	---	

MECHANICAL EQUIPMENT COORDINATION SCHEDULE

(VERIFY ALL EQUIPMENT CIRCUIT REQUIREMENTS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN)

EQUIPMENT DESIGNATION	DESCRIPTION	CFM	VOLT	Φ	ELECTRICAL LOAD: MOTOR(S) FLA QTY	MOTOR(S) FLA LARGEST	MOTOR(S) FLA SUM OF REMAINING	HEAT ELECTRIC KW	OTHER VA	TOTAL CONNECTED VA	PROTECTION MCA	PROTECTION MOCP	PROTECTION SPECIFIED TRIP	PROTECTION SPECIFIED POLE	CONDUCTOR / CONDUIT SIZE SETS	CONDUCTORS QTY.	CONDUCTORS SIZE	CONDUCTORS GND	CONDUIT	DISC.	REMARKS
	GRINDER STATION (2 HP)		208	3	1	8.5				3062	10.6	20	20	3	1	4	#12	#12	3/4"	30/3/4X-SS	COORDINATE ALL REQUIREMENTS WITH CIVIL DRAWINGS
EF-1	EXHAUST FAN (2 HP)	4485	208	3	1	7.8				2810	9.8	15	15	3	1	4	#12	#12	3/4"	30/3/1	INTERLOCK WITH RESTROOMS' SENSORS
EF-2	18" CEILING FAN	3000	120	1	1	2.5				300	1.9		20	1	1	2	#12	#12	3/4"	5-20R	
EF-3	18" CEILING FAN	3000	120	1	1	2.5				300	1.9		20	1	1	2	#12	#12	3/4"	5-20R	UTILIZE 6" DOWNROD
EF-4	18" CEILING FAN	3000	120	1	1	2.5				300	1.9		20	1	1	2	#12	#12	3/4"	5-20R	PROVIDE CEILING MOUNTED RECEPTACLE FOR POWER
EF-5	18" CEILING FAN	3000	120	1	1	2.5				300	1.9		20	1	1	2	#12	#12	3/4"	5-20R	INTERLOCK ALL CEILING FANS WITH SAME SWITCH FOR CONTROL
FF-1	AIR CURTAIN (1/6 HP)	1500	208	1	1	2.5				520	3.1	15	15	2	1	3	#12	#12	3/4"	2P TOGGLE	INTERLOCK WITH LOCAL SWITCH FOR CONTROL
FF-2	AIR CURTAIN (1/6 HP)	1500	208	1	1	2.5				520	3.1	15	15	2	1	3	#12	#12	3/4"	2P TOGGLE	INTERLOCK WITH LOCAL SWITCH FOR CONTROL
FF-3	AIR CURTAIN (1/6 HP)	1500	208	1	1	2.5				520	3.1	15	15	2	1	3	#12	#12	3/4"	2P TOGGLE	INTERLOCK WITH LOCAL SWITCH FOR CONTROL
FF-4	AIR CURTAIN (1/6 HP)	900	208	1	1	2.5				520	3.1	15	15	2	1	3	#12	#12	3/4"	2P TOGGLE	INTERLOCK WITH DOOR CONTACTS FOR CONTROL
UH-1	UNIT HEATER	1100	480	3	1	0.5		15		23853	18.7	25	25	2	1	3	#10	#10	3/4"	30/2/1	
UH-2	UNIT HEATER	1100	480	3	1	0.5		15		23853	18.7	25	25	2	1	3	#10	#10	3/4"	30/2/1	
UH-3	UNIT HEATER	400	480	3	1	0.5		3.3		5572	4.6	15	15	2	1	3	#12	#12	3/4"	30/2/1	
UH-4	UNIT HEATER	700	480	3	1	0.5		7.5		12134	9.6	15	15	2	1	3	#12	#12	3/4"	30/2/1	
UH-5	UNIT HEATER	1100	480	3	1	0.5		15		23853	18.7	25	25	2	1	3	#10	#10	3/4"	30/2/1	
EWH-1	ELECTRIC WATER HEATER		480	3				9	890	12140	11.9	15	15	3	1	4	#12	#12	3/4"	30/3/1	
EWC-1	ELECTRIC WATER COOLER		120	1						600		20	20	1	1	2	#12	#12	3/4"	GFCI 5-20R	
CP-1	CIRCULATING PUMP		120	1	1	1.5				180	1.9	15	15	1	1	2	#12	#12	3/4"	1P TOGGLE	

BID ALTERNATE 1:
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FOR PERMIT

NORTH BAY HAVEN CHARTER ACADEMY
BLEACHERS & CONCESSION BUILDING

1 BUCCANEER DRIVE
PANAMA CITY, FL 32404

REVISIONS
NO. DESCRIPTION *DATE*

Project Number **25025**
Dated 08.06.2025

MECHANICAL, LIGHTING, & MATRIX SCHEDULES
E-601

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25030 Job No.

CHP

MAIN 400 A MCB
SYSTEM 480Y/277V 3P 4W
OPTIONS BOLT ON BREAKERS; SERVICE ENTRANCE RATED

A.I.C.... 22kA
NEMA 3R

LOCATION
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	LTG - INTERIOR & EXTERIOR	20 A	1	1665 VA	0 VA					1	20 A	SPARE	2
3	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	4
5	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	10
11	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	12
13	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	14
15	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	16
17	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	18
19				7951 VA	4047 VA								20
21	UNIT HEATER (UH-1)	25 A	3			7951 VA	4047 VA			3	15 A	ELECTRIC WATER HEATER (EWH-1)	22
23								7951 VA	4047 VA				24
25				7951 VA	1857 VA								26
27	UNIT HEATER (UH-2)	25 A	3			7951 VA	1857 VA			3	15 A	UNIT HEATER (UH-3)	28
29								7951 VA	1857 VA				30
31				4045 VA	7951 VA								32
33	UNIT HEATER (UH-4)	15 A	3			4045 VA	7951 VA			3	25 A	UNIT HEATER (UH-5)	34
35								4045 VA	7951 VA				36
37				10217 VA	0 VA								38
39	PANEL CLP (FED FROM T-CLP)	175 A	3			12519 VA	0 VA			3	60 A	SURGE PROTECTIVE DEVICE (SPD)	40
41								11857 VA	0 VA				42
		POWER/PHASE		45684 VA		46321 VA		45659 VA					
		AMPS/PHASE		165 A		167 A		165 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
Power	8320 VA	100.00%	8320 VA	**CONNECTED POWER**	137664 VA
Lighting	2167 VA	100.00%	2167 VA	**DEMAND POWER**	134444 VA
HVAC	110737 VA	100.00%	110737 VA	**CONNECTED AMPS**	166 A
Receptacle	16440 VA	80.41%	13220 VA	**DEMAND AMPS**	162 A

NOTES:

CLP

MAIN 400 A MCB
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS

A.I.C.... 10kA
NEMA 1

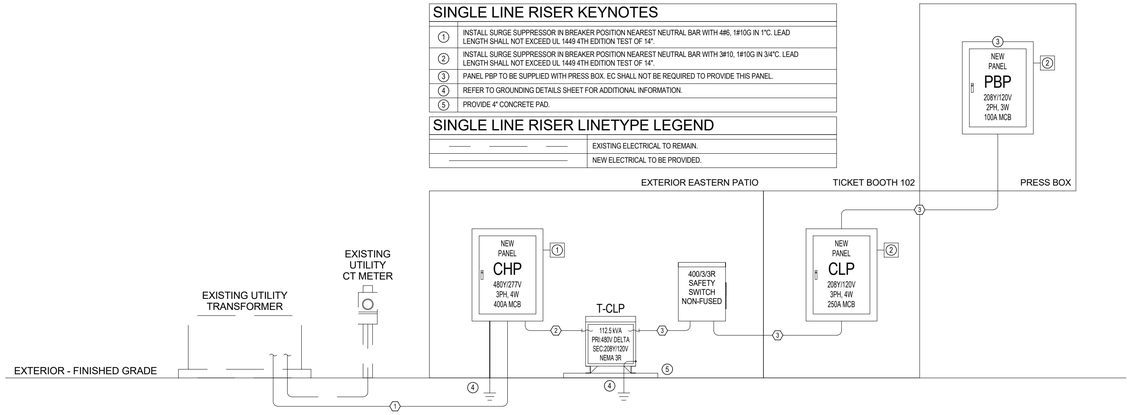
LOCATION Space 9
MOUNTING FLUSH

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC - NORTHWEST EXTERIOR	20 A	1	540 VA	720 VA					1	20 A	REC - SOUTHEAST EXTERIOR	2
3	REC - DRINKING FOUNTAIN	20 A	1			600 VA	720 VA			1	20 A	REC - RESTROOM 105	4
5	REC - RESTROOM 106	20 A	1					900 VA	1080 VA	1	20 A	REC - EXTERIOR STORAGE, POS COUNTER CONC 101	6
7	REC - CONC 101, TICKET BOOTH 102, CONC STOR 103	20 A	1	1080 VA	1000 VA					1	20 A	FIRE ALARM CIRCUIT (FACP) *	8
9	REC - REFRIGERATOR - CONC 101	20 A	1			600 VA	600 VA			1	20 A	REC - REFRIGERATOR - CONC STOR 103	10
11	REC - REFRIGERATOR - CONC STOR 103	20 A	1					600 VA	600 VA	1	20 A	REC - REFRIGERATOR - CONC 101	12
13	REC - CONCESSION 101	20 A	1	800 VA	800 VA					1	20 A	REC - CONCESSION 101	14
15	REC - MICROWAVE - CONC 101	20 A	1			1200 VA	800 VA			1	20 A	REC - CONCESSION 101	16
17	REC - CONCESSION 101	20 A	1					800 VA	800 VA	1	20 A	REC - CONCESSION 101	18
19	REC - PEDESTAL - CONC 101	20 A	1	1600 VA	1200 VA					1	20 A	REC - FANS CONC 101 **	20
21	LTG - TICKET BOOTH 102	20 A	1			502 VA	600 VA			1	20 A	REC - REFRIGERATOR - CONCESSION 101	22
23	CIRCULATING PUMP (CP-1)	20 A	1					180 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPACE ONLY	34
35	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	36
37	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	38
39	AIR CURTAIN (FF-1)	15 A	2			260 VA	--			1	--	SPACE ONLY	40
41								260 VA	--	1	--	SPACE ONLY	42
43	AIR CURTAIN (FF-2)	15 A	2	260 VA	--					1	--	SPACE ONLY	44
45						260 VA	4160 VA			2	100 A	PANEL PBP (PRESS BOX)	46
47	AIR CURTAIN (FF-3)	15 A	2					260 VA	4160 VA				48
49				260 VA	937 VA								50
51	AIR CURTAIN (FF-4)	15 A	2			260 VA	937 VA			3	15 A	EXHUAST FAN (EF-1)	52
53								260 VA	937 VA				54
55				1021 VA	0 VA								56
57	GRINDER STATION	20 A	3			1021 VA	0 VA			3	30 A	SURGE PROTECTIVE DEVICE (SPD)	58
59								1021 VA	0 VA				60
		POWER/PHASE		10217 VA		12519 VA		11857 VA					
		AMPS/PHASE		85 A		106 A		101 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
Power	8320 VA	100.00%	8320 VA	**CONNECTED POWER**	34594 VA
Lighting	502 VA	100.00%	502 VA	**DEMAND POWER**	31374 VA
HVAC	9332 VA	100.00%	9332 VA	**CONNECTED AMPS**	96 A
Receptacle	16440 VA	80.41%	13220 VA	**DEMAND AMPS**	87 A

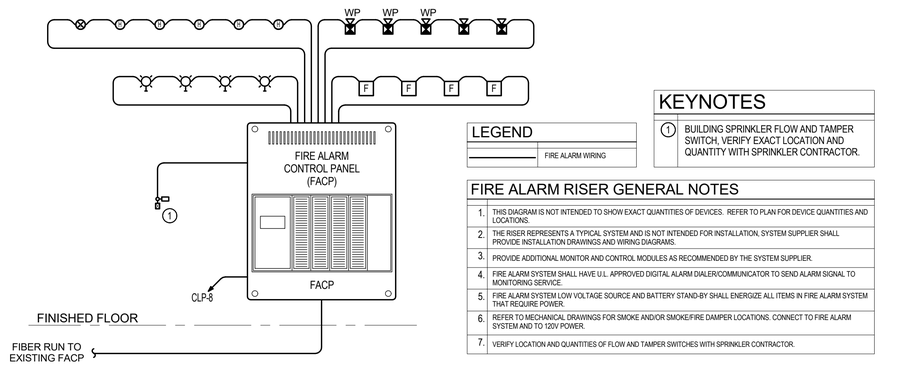
NOTES:
* PROVIDE RED BREAKER CAPABLE OF BEING LOCKED IN THE CLOSED POSITION PER NFPA 70 - ARTICLE 760.121(B).
** PROVIDE GFCI BREAKER.



SINGLE LINE POWER RISER DIAGRAM

NTS

FEEDER SCHEDULE											
	EQUIPMENT NAME	FED FROM	BREAKER RATING	BREAKER POLES	PARALLEL RUNS	CONDUIT	PH + N CONDUCTOR QTY.	PHASE & GROUND(S)/(N) CONDUCTOR	EQUIPMENT GROUND CONDUCTOR	SUPPLY SIDE BONDING CONDUCTOR	MATERIAL
1	CHP	UTILITY XFMR	400	3	2	2"	4	3/0 AWG	N/A	N/A	CU
2	T3J	CHP	175	3	1	1-1/2"	3	2/0 AWG	6 AWG	N/A	CU
3	CLP	T3J	400	3	2	2"	4	3/0 AWG	N/A	2 AWG	CU
4	PBP	CLP	100	2	1	1-1/4"	3	3 AWG	8 AWG	N/A	CU



Fire Alarm Riser

NTS

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REVISIONS
NO. DESCRIPTION DATE

Project Number **25025**
Dated 08.06.2025

POWER, FIRE ALARM RISER & PANEL SCHEDULES

E-602

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