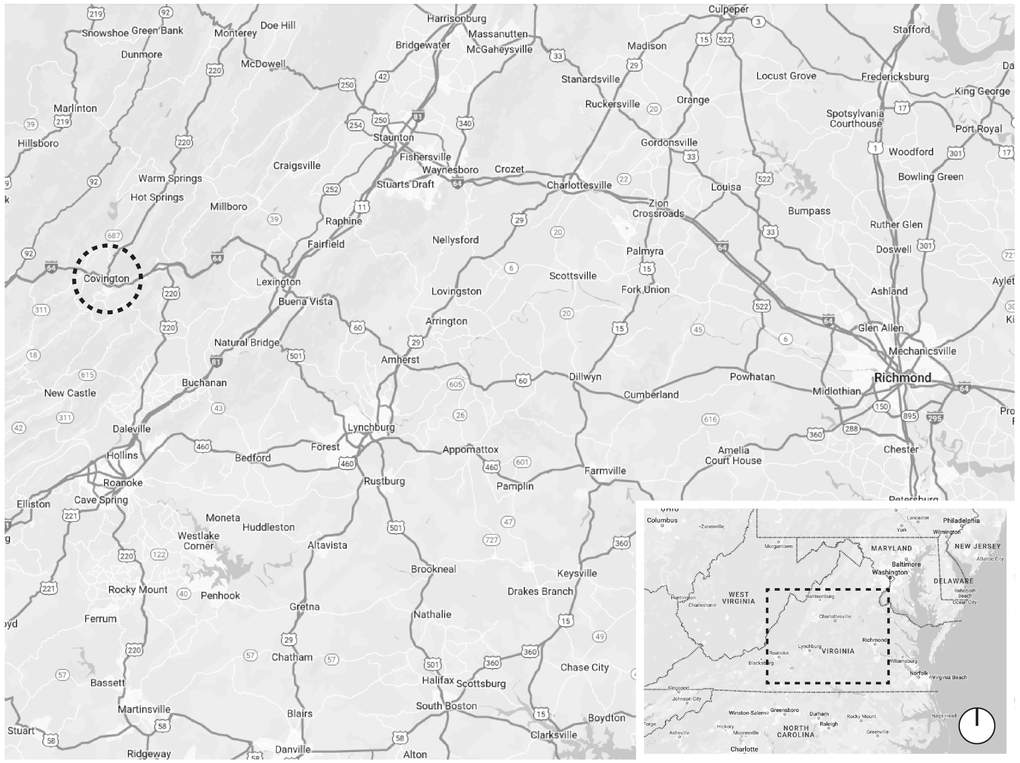
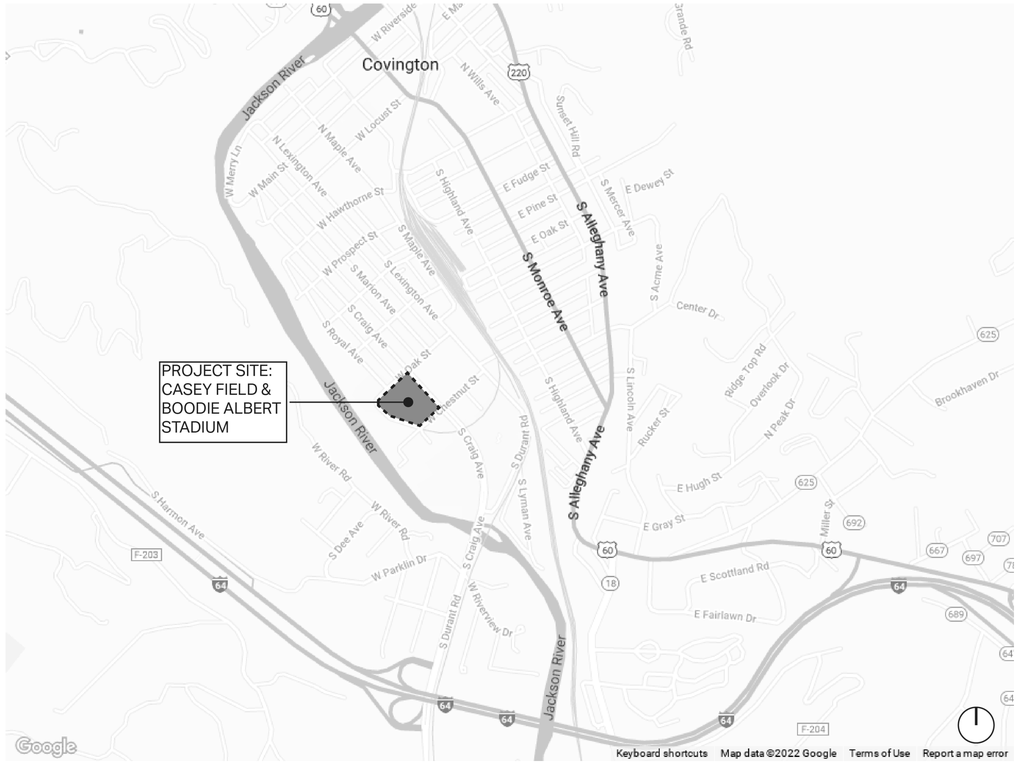
CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

CASEY FIELD & BOODIE ALBERT STADIUM
700 WEST OAK ST
COVINGTON, VA 24426

100% CONSTRUCTION DOCUMENTATION
MAY 5, 2023



VICINITY MAP - COVINGTON, VA



LOCATION MAP - CASEY FIELD & BOODIE ALBERT STADIUM

INDEX OF DRAWINGS

GENERAL

G-001	COVER
G-002	ABBREVIATIONS
G-003	GENERAL SYMBOLOGY
G-004	BUILDING AND LIFE SAFETY CODE ANALYSIS

CIVIL

C-001	CIVIL NOTES AND LEGEND
CE-101	OVERALL EXISTING LAYOUT
CD-101	FIELD HOUSE DEMOLITION PLAN
CS-101	FIELD HOUSE SITE PLAN
CG-101	FIELD HOUSE GRADING PLAN
CC-101	FIELD HOUSE EROSION AND SEDIMENT CONTROL PLAN
CU-101	FIELD HOUSE SITE UTILITY PLAN
CS-501	SITE DETAILS

STRUCTURAL

S-001	GENERAL NOTES
S-101	FOUNDATION PLAN - NEW FIELD HOUSE
S-102	FOUNDATION PLAN - EXISTING FIELD HOUSE
S-103	FRAMING PLAN - NEW FIELD HOUSE
S-104	FRAMING PLAN - EXISTING FIELD HOUSE
S-301	FOUNDATION SECTIONS AND DETAILS
S-302	FRAMING SECTIONS AND DETAILS
S-303	FRAMING SECTIONS AND DETAILS
S-501	TYPICAL DETAILS
S-502	TYPICAL DETAILS

INDEX OF DRAWINGS

ARCHITECTURAL

AD101	GROUND FLOOR DEMOLITION PLAN & EXTERIOR ELEVATIONS - EXISTING FIELD HOUSE
A-001	GENERAL NOTES, LEGENDS, & SYMBOLS
A-002	ACCESSORY SCHEDULE & MOUNTING HEIGHTS
A-101	FLOOR PLAN - NEW FIELD HOUSE
A-102	CLERESTORY PLAN - NEW FIELD HOUSE
A-103	REFLECTED CEILING PLAN - NEW FIELD HOUSE
A-104	ROOF PLAN - NEW FIELD HOUSE
A-111	FLOOR PLAN - EXISTING FIELD HOUSE
A-112	REFLECTED CEILING PLAN - EXISTING FIELD HOUSE
A-113	ROOF PLAN - EXISTING FIELD HOUSE
A-201	BUILDING ELEVATIONS - NEW FIELD HOUSE
A-211	BUILDING ELEVATIONS - EXISTING FIELD HOUSE
A-301	BUILDING SECTIONS - NEW FIELD HOUSE
A-302	BUILDING SECTIONS - NEW FIELD HOUSE
A-321	WALL SECTIONS
A-322	WALL SECTIONS
A-323	WALL SECTIONS
A-411	INTERIOR FINISH PLANS & SCHEDULE - NEW FIELD HOUSE
A-412	INTERIOR FINISH PLANS - EXISTING FIELD HOUSE
A-451	INTERIOR ELEVATIONS - NEW FIELD HOUSE
A-452	INTERIOR ELEVATIONS - EXISTING FIELD HOUSE
A-453	INTERIOR ELEVATIONS - EXISTING FIELD HOUSE
A-501	CASEWORK DETAILS
A-511	WALL DETAILS

INDEX OF DRAWINGS

A-522	STAIR AND RAILING DETAILS
A-601	PARTITION AND FLOOR TYPES AND DETAILS
A-611	DOOR SCHEDULE, DOOR TYPES AND DETAILS
A-612	DOOR DETAILS
A-621	WINDOW AND LOUVER TYPES
A-622	WINDOW AND LOUVER DETAILS
A-631	ROOF TYPES AND DETAILS
A-701	ARCHITECTURAL SPECIFICATIONS

PLUMBING

P-001	PLUMBING GENERAL NOTES AND LEGENDS
PD100	EXISTING FIELD HOUSE - DEMO PLANS
PU100	EXISTING FIELD HOUSE - UNDERGROUND PLUMBING PLAN
PL100	EXISTING FIELD HOUSE - FIRST FLOOR PLUMBING PLAN
PU101	NEW FIELD HOUSE - UNDERGROUND PLUMBING PLAN
PL101	NEW FIELD HOUSE - FIRST FLOOR PLUMBING PLAN
P-501	DETAILS
P-601	SCHEDULES & SPECIFICATIONS

INDEX OF DRAWINGS

ELECTRICAL

E-001	ELECTRICAL LEGEND
E-002	ELECTRICAL SPECIFICATIONS
ED100	ELECTRICAL DEMOLITION PLAN - EXISTING FIELD HOUSE
EG100	GROUNDING PLAN - NEW FIELD HOUSE
EL100	LIGHTING PLANS
EL500	LIGHTING PLATES AND SCHEDULE
EL800	LIGHTING CALCULATIONS - EXISTING FIELDHOUSE
EL801	LIGHTING CALCULATIONS - NEW FIELD HOUSE
EP100	POWER PLANS
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-601	ONE-LINE DIAGRAMS
E-701	PANEL SCHEDULES

MECHANICAL

M-001	MECHANICAL LEGEND AND GENERAL NOTES
M-101	MECHANICAL HVAC PLANS - EXISTING FIELD HOUSE
M-102	MECHANICAL HVAC PLANS - NEW FIELD HOUSE
M-103	MECHANICAL HVAC SECTIONS - NEW FIELD HOUSE

READY FOR CONSTRUCTION

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PROFESSIONAL ENGINEER
5 May 2023

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

COVER

SHEET NUMBER

G-001

DRAWING ABBREVIATIONS

A ----------
AAP ALARM ANNUNCIATOR PANEL
A LABEL CLASS A DOOR
A/C AIR CONDITION
A/C UNIT AIR CONDITIONING UNIT
A/E ARCHITECT/ENGINEER
AB ANCHOR BOLT
ABV ABOVE
ACC ACCESSIBLE
ACS AUTOMATIC CONTROL SYSTEM
ACS DR ACCESS DOOR
ACS PNL ACCESS PANEL
ACT ACOUSTICAL CEILING TILE
ADA AMERICANS WITH DISABILITIES ACT
ADMINADMINISTRATION
ADJ ADJACENT, ADJUSTABLE
AESS ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AFC ABOVE FINISHED COUNTER
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AFS ABOVE FINISHED SLAB
AGGR AGGREGATE
AHR ANCHOR
AHU AIR HANDLING UNIT
AIB AIR INFILTRATION BARRIER
ALT ALTERNATE
ALUM ALUMINUM
ANOD ANODIZE
APC ACOUSTICAL PANEL CEILING
APPROX. APPROXIMATE
AR AS REQUIRED
ARCH ARCHITECT
ASC ABOVE SUSPENDED CEILING
ASSY ASSEMBLY
ATC ACOUSTICAL TILE CEILING
AVG AVERAGE
AW ARCHITECTURAL WOODWORK
AWT ACOUSTICAL WALL TREATMENT
B ----------
B LABEL CLASS B DOOR
BALC BALCONY
BB BASEBOARD
BC BOOKCASE, BOTTOM OF CURB
FACE FACE OF CURB
BD BOARD
BDRY BOUNDARY
BFF BELOW FINISH FLOOR
BHMA BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION
BLDG BUILDING
BLKG BLOCKING
BLT INBUILT-IN
BLW BELOW
BM BEAM
BN BULLNOSE
BOS BOTTOM OF STEEL
BOT BOTTOM
BOTT. BOTTOM
BP BUILDING PAPER
BR BULLET-RESISTANT, BALLISTIC RATED
BRKT BRACKET
BSMT BASEMENT
BTWN BETWEEN
BUR BUILT-UP ROOFING
C ----------
C CONC CAST CONCRETE
C LABEL CLASS C DOOR
CAB CABINET
CATW CATWALK
CAV CAVITY, COMBINATION AIR RELIEF VALVE
CB CATCH BASIN
CBB CEMENTITIOUS (BACKER) BOARD
CD CONSTRUCTION DOCUMENTS
CDW CHILLED DRINKING WATER
CEM PLAS CEMENT PLASTER
CER CERAMIC
CF CONTRACTOR FURNISHED
CF/CI CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CFE CONTRACTOR FURNISHED EQUIPMENT
CFH CUBIC FEET PER HOUR
CFLG COUNTERFLASHING
CFM CUBIC FEET PER MINUTE
CFMF COLD-FORMED METAL FRAMING
CFS CUBIC FEET PER SECOND
CG CORNER GUARD
CI CAST IRON, CURB INLET
CIP CAST-IN-PLACE
CJ CONTROL JOINT OR BRICK EXPN JOINT
CL CENTER LINE
CENTERLINE
CLG CEILING
CLG DIFFCEILING DIFFUSER
CLG HTCEILING HEIGHT
CLL COLUMN LINE
CLO CLOSET
CLR COLOR, CLEAR
CLR. CLEAR

CLRM CLASSROOM
CMU CONCRETE MASONRY UNIT
CNDS CONDENSATE
CDR CARD READER
CO CLEANOUT
COL COLUMN
COMMCOMMUNICATION
CONC CONCRETE
CONC FLR CONCRETE FLOOR
CONF CONFERENCE
CONSTR. CONSTRUCTION BASELINE
CONT CONTINUE, CONTINUOUS
COORDCOORDINATE
CORR CORRIDOR
CP CONCRETE PIPE
CPT CARPET
CR CONTROL ROOM / CARD READER
CS CAST STONE
CSWK CASEWORK
CT CERAMIC TILE
CTB CERAMIC TILE BASE
CTF CERAMIC TILE FLOOR
CTR CENTER
CU FT CUBIC FEET
CW CASEMENT WINDOW / DOMESTIC COLD WATER
CWB CAPILLARY WATER BARRIER
D ----------
D DEPTH
D LABEL CLASS D DOOR
DB DOORBELL
DBL DOUBLE
DEMO DEMOLITION
DEPT DEPARTMENT
DET DETAIL
DI DROP INLET, DUCTILE IRON
DIA DIAMETER
DIR DIRECTION
DIST DISTANCE
DN DOWN
DOC DOCUMENT
DR DOOR
DS DOWNSPOUT
E ----------
E LABEL CLASS E DOOR
EA EACH
E.F. EACH FACE
EHD ELECTRIC HAND DRYER
EIFS EXTERIOR INSULATION AND FINISH SYSTEM
EJ EXPANSION JOINT
EL ELEVATION
ELEV ELEVATOR
ELEV. ELEVATION
ENTR ENTRANCE
EP EDGE OF PAVEMENT
EPS EXPANDED POLYSTYRENE BOARD (INSULATION)
EQ EQUAL
EQPT EQUIPMENT
EQUIP. EQUIPMENT
EO ELECTRICAL OUTLET
ES EACH SIDE
EW EACH WAY
EWC ELECTRIC WATER COOLER
EXST EXISTING
EXP EXPOSED
EXPN EXPANSION
EXT EXTERIOR
EXT EXTINGUISHER
EXT GR EXTERIOR GRADE
F ----------
FA FIRE ALARM
FAAP FIRE ALARM ANNUNCIATOR PANEL
FAS BDFASCIA BOARD
FC BRK FACE BRICK
FCO FLOOR CLEANOUT
FD FLOOR DRAIN
FDTN FOUNDATION
FE FIRE EXTINGUISHER
FEC FIRE EXTINGUISHER CABINET
FED FEDERAL
FF FINISH FACE
F.F. FAR FACE
FFE FINISH FLOOR ELEVATION
FF EL FINISH FLOOR ELEVATION
FF INSUL FOIL BACKED INSULATION
FGL FIBERGLASS
FH FIRE HOSE
FHP FULL HEIGHT PARTITION
FIN. FINISH, FINISHED
FIN BS FINISH BOTH SIDES
FIN FLR FINISH FLOOR
FIN GR FINISH GRADE
FIXT FIXTURE
FLDG FOLDING
FLEX FLEXIBLE
FLG FLOORING
FLMT FLUSH MOUNT

FLR FLOOR
FM FACTORY MUTUAL
FOC FACE OF CONCRETE
FOM FACE OF MASONRY
FR FROM / FIRE RESISTANT
FRG FIBER REINFORCED GYPSUM
FRMG FRAMING
FRP FIBERGLASS REINFORCED PLASTIC
FRT FIRE RETARDANT TREATED
FRTW FIRE RETARDANT TREATED WOOD
FS FEDERAL SPECIFICATION
FSTC FIELD SOUND TRANSMISSION CLASS
FSTNR FASTENER
FT FEET
FTG FOOTING
FWC FABRIC WALLCOVERING
G ----------
G NATURAL GAS
GALV GALVANIZED
GB GRAB BAR
GEN GENERATOR
GFCI GOVERNMENT FURNISHED CONTRACTOR INSTALLED, GROUND FAULT CIRCUIT INTERRUPTOR
GFGI GOVERNMENT INSTALLED FURNISHED INSTALLED BY GOVERNMENT
GFRG GLASS-FIBER-REINFORCED GYPSUM
GLZ GLAZING
GR GRADE
GR FL GROUND FLOOR
GUT GUTTER
GV GATE VALVE
GYP BD GYPSUM BOARD
GYP PLASGYPSUM PLASTER
H ----------
H-STATHUMIDISTAT
HB HOSE BIBB, HORIZONTAL BEND
HD HIGH DENSITY
HDPE HIGH DENSITY POLYETHYLENE
HDW HARDWARE
HDWD HARDWOOD
HEPA HIGH EFFICIENCY PARTICULATE AIR (FILTER)
HM HOLLOW METAL
HMD HOLLOW METAL DOOR
HORIZ HORIZONTAL
HPL HIGH PRESSURE LAMINATE
HT HEIGHT
HVHZ HIGH VELOCITY HURRICANE ZONE
HW DOMESTIC HOT WATER CIRCULATING
HYDR HYDRAULIC
I ----------
IBC INTERNATIONAL BUILDING CODE
INSUL INSULATION
INT INTERIOR
ILO IN LIEU OF
J ----------
JAN JANITOR
JT JOINT
K ----------
KPD KEYPAD
KIT KITCHEN
KPL KICKPLATE
L ----------
LAM LAMINATE
LAV LAVATORY
LBR LUMBER
LBS POUND
LDG LANDING
LF LINEAR FEET (FOOT)
LIB LIBRARY
LIN LINEAR
LKR LOCKER
LLH LONG LEG HORIZ
LOC LOCATION / LOCAL OPERATING CONSOLE
LT LIGHT
LVDR LOUVER DOOR
LVR LOUVER
M ----------
MACH RM MACHINE ROOM
MATL MATERIAL
MAX MAXIMUM
MC MOISTURE CONTENT
MD METAL DECK
MECH MECHANICAL
MECH RM MECHANICAL ROOM
MEMB MEMBRANE
MEP MECHANICAL, ELECTRICAL, PLUMBING
MF MILL FINISH
MFR MANUFACTURER
MG MIRROR GLASS
MH MOP HOLDER, MANHOLE
MID MIDDLE
MIL STD MILITARY STANDARD
MIN MINIMUM, MINUTE
MIRR MIRROR
MISC MISCELLANEOUS
MLDG MOLDING (MOULDING)

MO MASONRY OPENING
MOD MODIFY
MOT MAINTENANCE OF TRAFFIC
MB MOISTURE BARRIER
MTG MOUNTING
MTL METAL
MVBL MOVABLE
MWP MEMBRANE WATERPROOFING
N ----------
N NORTH
NA NOT APPLICABLE
NAD NORTH AMERICAN DATUM
N.F. NEAR FACE
NFPA NATIONAL FIRE PROTECTION ASSOCIATION
NGVD NATIONAL GEODETIC VERTICAL DATUM
NIC NOT IN CONTRACT
NO NUMBER
NOM NOMINAL
NP NO PAINT
NRC NOISE REDUCTION COEFFICIENT
NTS NOT TO SCALE
O ----------
OA OVERALL
OC ON CENTER
OD OUTSIDE DIAMETER
OFD OVERFLOW DRAIN
OFF OFFICE
OGL OBSCURE GLASS
OH OVERHEAD
OPH OPPOSITE HAND
OPNG OPENING
OPP OPPOSITE
OPQ OPAQUE
OWSJ OPEN WEB STEEL JOIST
OPR OPERABLE
ORD OVERFLOW ROOF DRAIN
ORIG ORIGINAL
P ----------
PA PUBLIC ADDRESS
PAF POWER ACTUATED FASTENER
PAR PARAPET
PAT PATTERN
PB PULL BOX
PBD PARTICLEBOARD
PC POINT OF CURVATURE
PCC PRECAST CONCRETE
PCF POUNDS PER CUBIC FOOT
PCP PRECAST CONCRETE PANEL
PCT PERCENT
PEJ PREMOLDED EXPANSION JOINT
PERF PERFORATED
PERIMPERIMETER
PH PHASE
PIL PILASTER
PL PROPERTY LINE, PLATE
PL GL PLATE GLASS
PLAM PLASTIC LAMINATE
PLAS PLASTER
PLBG PLUMBING
PLG PILING
PLYWDPLYWOOD
PNL PANEL
POT POINT OF TANGENT
PP PL PUSH/PULL PLATE
PR PAIR
PRCST PRECAST
PREFAB PREFABRICATED
PRKG PARKING
PS PULL STATION
PS CONCPRESTRESSED CONCRETE
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PT PRESSURE TREATED, POINT OF TANGENCY
PTD PAPER TOWEL DISPENSER
PTDR PAPER TOWEL DISPENSER AND RECEPTACLE
PTN PARTITION
PVC POINT OF VERTICAL CURVATURE, POLYVINYL CHLORIDE
PVMT PAVEMENT
PVT POINT OF VERTICAL TANGENCY
PWR POWER
Q ----------
QT QUARRY TILE
QTY QUANTITY
R ----------
RB RESILIENT BASE
RBM REINFORCED BRICK MASONRY
RBR RUBBER
RC REINFORCED CONCRETE
RCP REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD ROOF DRAIN
RDG INSRIGID INSULATION, SOLID
REC RECESSED
REC ROOMRECREATION ROOM
REF REFERENCE

REINF REINFORCED, REINFORCEMENT
REM REMOVABLE
REP REPAIR
REPL REPLACE
REQ REQUIRE
REQD REQUIRED
RESIL RESILIENT
REST RESTROOM
RF RESILIENT FLOORING
RFG ROOFING
RH ROOF HATCH
RHR RIGHT HAND REVERSE
RL ROOF LEADER
RLG RAILING
RM ROOM
RO ROUGH OPENING
RPZ REDUCED PRESSURE ZONE
RSD ROLLING STEEL DOOR
RV ROOF VENT
RVL REVEAL
S ----------
SAN SANITARY
SB SPLASH BLOCK
SCHED SCHEDULE
SD SMOKE DETECTOR / STORM DRAIN / SOAP DISPENSER
SF SQUARE FOOT (FEET)
SFTWD SOFTWOOD
SGL SINGLE
SHT MTL FLASH SHEET METAL (FLASHING)
SHTHG SHEATHING
SHV SHELVING
SIM SIMILAR
SJ SCORED JOINT
SKLT SKYLIGHT
SLNT SEALANT
SMHD SHELF, METAL, HEAVY DUTY
SMK SMOKE
SMLS SEAMLESS
SND SANITARY NAPKIN DISPOSER
SNT SEALANT
SNTD SANITARY NAPKIN AND TAMPON DISPENSER
SOG SLAB ON GRADE
SP EL SPOT ELEVATION
SPEC SPECIFICATION
SQ SQUARE
SQ IN SQUARE INCH
SQ YD SQUARE YARD
SSD SUBSURFACE DRAIN
SST STAINLESS STEEL
ST STAIRS
STA. STATION
STC SOUND TRANSMISSION CLASS
STD STANDARD
STL STEEL
STL JST STEEL JOIST
STL RF DK STEEL ROOF DECK
STOR STORAGE
STR STRINGERS
STRL STRUCTURAL
STRB/HRN STROBE/HORN
SUB FL SUBFLOOR
SV SHEET VINYL
SW SIDEWALK / SWITCH
T ----------
T TREAD
T&B TOP AND BOTTOM
T/S TUB/SHOWER
TC TERRA COTTA, TOP OF CURB
TD TRENCH DRAIN
TEL TELEPHONE
TEMP TEMPORARY
TER TERRAZZO
TFF TOP OF FINISH FLOOR
THK THICKNESS
TK BD TACKBOARD
TMPD GL TEMPERED GLASS
TN TRUE NORTH
T.O. TOP OF
TOC TOP OF CONCRETE
TOF TOP OF FOOTING
TOM TOP OF MASONRY
TOP TOP OF PARAPET
TOPO TOPOGRAPHY
TOS TOP OF SLAB, TOP OF STEEL
T.O.W.TOP OF WALL
TRANS TRANSOM
TRTD TREATED
TSCD TOILET SEAT COVER DISPENSER
TSP TWISTED SHIELDED PAIR
TST TWISTED SHIELDED TRIPLE
T-STAT THERMOSTAT
TTD TOILET TISSUE DISPENSER
TU TERMINAL UNIT
TV TELEVISION, TELEVISION OUTLET
TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP TYPICAL

U ----------
UC UNDERCUT
UFD UNDER FLOOR DUCT
UG UNDERGROUND
UH UNIT HEATER
UHF ULTRAHIGH FREQUENCY
UL UNDERWRITERS' LABORATORY
ULT ULTIMATE
UNIF UNIFORM
UNO UNLESS NOTED OTHERWISE
UPS UNINTERRUPTIBLE POWER SUPPLY
UR URINAL
U.S. URINAL SCREEN
UTIL UTILITY
V ----------
V SANITARY VENT
VA VOLT-AMPERE
VAC VACUUM, VOLTS AC
VAR VOLT-AMPERE REACTIVE
VAV VARIBLE AIR VOLUME
VB VAPOR BARRIER, VERTICAL BEND
VC VERTICAL CURVE
VCT VINYL COMPOSITION TILE
VD VOLUME DAMPER
VDC VOLTS DC
VDO VOICE/DATA OUTLET
VEL VELOCITY
VENT. VENTILATE
VERT VERTICAL
VEST. VESTIBULE
VFD VARIBLE FREQUENCY DRIVE
VHF VERY HIGH FREQUENCY
VIN VINYL COMPOSITION TILE
VLT VAULT
VM VOLTMETER
VOL VOLUME
VR VAPOR RETARDER
VS VERTICAL SLOT
VT VINYL TILE
VTR VENT THRU ROOF
VWC VINYL WALL COVERING
W ----------
W WEST, WATT, WIDE, WIRE, WATER, WATER MAIN OR SERVICE LINE
W/ WITH
W/O WITHOUT
WA WAINSCOT
WAS WASTE ACTIVATED SLUDGE
WB WET BULB, WIND BEAM
WC WATER CLOSET
WCO WALL CLEAN OUT
WD WOOD, WIDTH
WDO WINDOW
WFD WATER FLOW DETECTOR
WG WATER GAGE
WH WALL HYDRANT
WHA WATER HAMMER ARRESTER
WHS WELDED HEADED STUD
WI WROUGHT IRON
WL WIND LOAD, WATER LINE
WM WATER METER
WP WORKING POINT, WEATHERPROOF
WPF WATERPROOFING
WS WATER SURFACE, WATERSTOP
WST WASTE
WT WEIGHT
WTR WATER
WTS WELDED THREADED STUD
WWF WELDED WIRE FABRIC
WWR WELDED WIRE REINFORCEMENT
X ----------
XARM CROSS ARM
XFMR TRANSFORMER
XFR TRANSFER
XMTR TRANSMITTER
Y ----------
YD YARD
YHYD YARD HYDRANT

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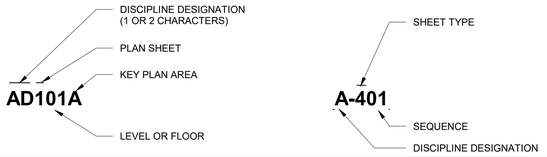
SHEET TITLE

ABBREVIATIONS

SHEET NUMBER

G-002

SHEET NUMBERING



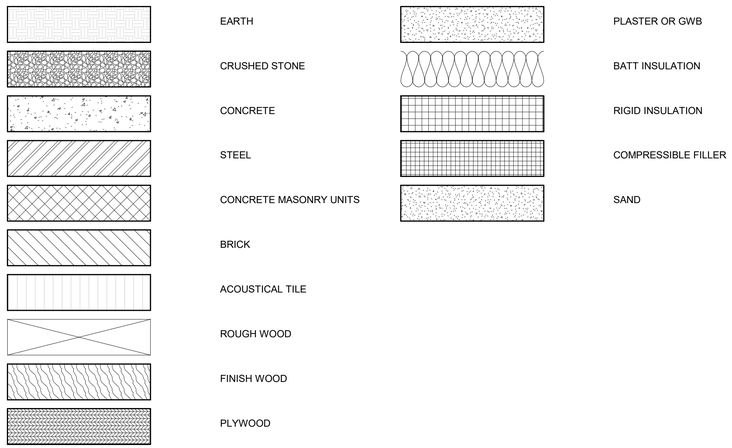
SHEET FILE DISCIPLINE DESIGNATORS

G-	GENERAL
GI	GENERAL INFORMATION
H	HAZARDOUS MATERIALS
HA	ASBESTOS ABATEMENT
V-	SURVEY
B-	GEOTECHNICAL
BB	BORING LOGS
CD	CIVIL DEMOLITION
C-	CIVIL
CC	CIVIL EROSION AND SEDIMENT CONTROL
CE	CIVIL EXISTING
CS	CIVIL SITE
CG	CIVIL GRADING
CP	CIVIL PAVING
CU	CIVIL UTILITIES
LD	LANDSCAPE DEMOLITION
L-	LANDSCAPE
LS	LANDSCAPE SITE
LL	LANDSCAPE LIGHTING
LP	LANDSCAPE PLANTING
SD	STRUCTURAL DEMOLITION
S-	STRUCTURAL
SS	STRUCTURAL SITE
SB	STRUCTURAL SUBSTRUCTURE
SF	STRUCTURAL FRAMING
SC	STRUCTURAL COMPONENTS
SR	STRUCTURAL REINFORCEMENT
AD	ARCHITECTURAL DEMOLITION
A-	ARCHITECTURAL
AS	ARCHITECTURAL SITE
AE	ARCHITECTURAL ELEMENTS
AI	ARCHITECTURAL INTERIORS
AF	ARCHITECTURAL FINISHES
ID	INTERIORS DEMOLITION
I-	INTERIORS
IN	INTERIOR DESIGN
IF	INTERIOR FURNISHINGS
IG	INTERIOR GRAPHICS
QF	FOOD SERVICE
FD	FIRE PROTECTION DEMOLITION
F-	FIRE PROTECTION
FA	FIRE ALARM
FX	FIRE PROTECTION/SUPPRESSION
PD	PLUMBING DEMOLITION
P-	PLUMBING
PS	PLUMBING SITE
PL	PLUMBING FIXTURES
PP	PLUMBING PIPING
PQ	PLUMBING EQUIPMENT
DQ	MATERIAL HANDLING
MD	MECHANICAL DEMOLITION
M-	MECHANICAL
MH	MECHANICAL HVAC
MI	MECHANICAL INSTRUMENTATION
MP	MECHANICAL PIPING
MS	MECHANICAL SITE
MY	MECHANICAL HYDRAULIC SYSTEMS
MW	MECHANICAL DISTRIBUTED ENERGY
ED	ELECTRICAL DEMOLITION
E-	ELECTRICAL
ES	ELECTRICAL SITE
EI	ELECTRICAL INSTRUMENTATION
EL	ELECTRICAL LIGHTING
EP	ELECTRICAL POWER
ET	ELECTRICAL TELECOMMUNICATIONS
EY	ELECTRICAL AUXILIARY SYSTEMS
EG	ELECTRICAL GROUNDING
TD	TELECOMMUNICATIONS DEMOLITION
T-	TELECOMMUNICATIONS
TA	AUDIO VISUAL
TC	CLOCK AND PROGRAM
TI	INTERCOM
TM	MONITORING
TN	DATA NETWORKS
TT	TELEPHONE
TY	SECURITY
TS	SCADA

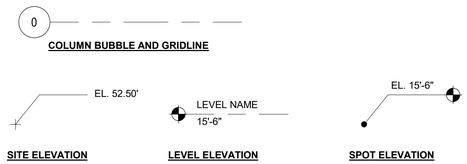
SHEET TYPE DESIGNATORS

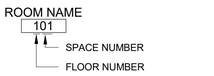
0	GENERAL (SYMBOLS LEGEND, NOTES, ETC.)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS AND PROFILES (VERTICAL VIEWS)
3	SECTIONS (SECTIONAL VIEWS, CROSS-SECTIONS, ETC.)
4	LARGE SCALE VIEWS (ENLARGED PLANS AND ELEVATIONS)
5	DETAILS
6	SCHEDULES AND DIAGRAMS
7	USER DEFINED
8	USER DEFINED
9	3D REPRESENTATIONS (PERSPECTIVES AND PHOTOGRAPHS)

BUILDING MATERIALS



SYMBOLOGY





ROOM TAG

KEYNOTE

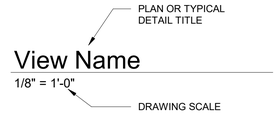
POINT OF CONNECTION (NEW TO EXISTING)

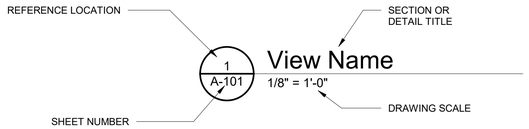
POINT BETWEE EXISTING WORK TO REMAIN AND EXISTING WORK TO REMOVE

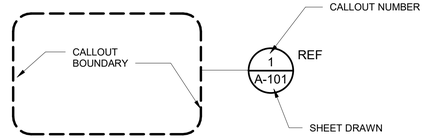
PIPE BREAK FOR SINGLE LINE

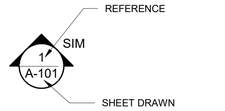
PIPE BREAK FOR DOUBLE LINE

PLAN NORTH/PROJECT NORTH

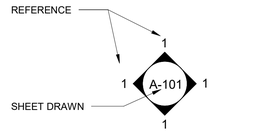




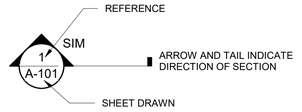




EXTERIOR ELEVATION REFERENCE

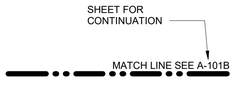


INTERIOR ELEVATION REFERENCE

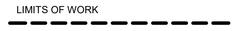


SECTION REFERENCE

BREAKLINE

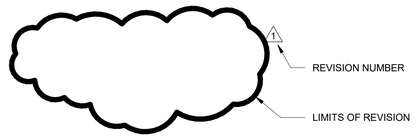


MATCHLINE



BUILDING LIMITS OF WORK

CIVIL LIMITS OF WORK



DRAWING REVISION

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

CASEY FIELD & BOODIE ALBERT STADIUM
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REGISTRATION

COMMONWEALTH OF VIRGINIA
KYLE LYNCH
Lic. No. 0402060988
PROFESSIONAL ENGINEER
5 May 2023

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

GENERAL SYMBOLOGY

SHEET NUMBER

G-003

READY FOR CONSTRUCTION

PRIMARY APPLICABLE BUILDING CODES:

- VIRGINIA CONSTRUCTION CODE (VCC), 2018
- NFPA 10. STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2018
- 2018 VIRGINIA EXISTING BUILDING CODE (VEBC)
- 2018 VIRGINIA MECHANICAL CODE
- 2010 ADA STANDARDS

NEW FIELD HOUSE:

1. PROVIDE FIRE EXTINGUISHERS PER VCC §906 AND NFPA 10.
2. THIS BUILDING IS A NEW CONSTRUCTION.
3. TABLE 1 IS THE BUILDING CODE ANALYSIS.
4. TABLE 2 IS THE LIFE SAFETY ANALYSIS.

TABLE 1 - BUILDING AREA & CLASSIFICATION

CONSTRUCTION TYPE	VB
OCCUPANCY CLASSIFICATION	MIXED NON-SEPARATED - GROUP A3 & GROUP B
FIRE SUPRESSION	NOT SPRINKLERED
ALLOWABLE BUILDING HEIGHT (FEET)	40
ACTUAL BUILDING HEIGHT (FEET)	18
ALLOWABLE NUMBER OF STORIES	1
ACTUAL NUMBER OF STORIES	1
ALLOWABLE FLOOR AREA ($FEET^2$)	6,000
ACTUAL FLOOR AREA ($FEET^2$)	2,940

TABLE 2 - OCCUPANT LOAD & MEANS OF EGRESS

OCCUPANT LOAD CALCULATION	60
NUMBER OF EXITS	2
EXIT SEPARATION (FEET)	65
BUILDING DIAGONAL (FEET)	89
EXIT SIGNS	REQUIRED AND SHALL BE PROVIDED
MAX TRAVEL DISTANCE (FEET)	200
DEAD END CORRIDOR (FEET)	20
COMMON PATH OF TRAVEL (FEET)	75

EXISTING FIELD HOUSE:

1. PROVIDE FIRE EXTINGUISHERS PER VCC §906 AND NFPA 10.
2. THIS BUILDING IS A RENOVATION.
3. TABLE 1 IS THE BUILDING CODE ANALYSIS.
4. TABLE 2 IS THE LIFE SAFETY ANALYSIS.

TABLE 1 - BUILDING AREA & CLASSIFICATION

CONSTRUCTION TYPE	VB
OCCUPANCY CLASSIFICATION	GROUP B
FIRE SUPRESSION	NOT SPRINKLERED
ALLOWABLE BUILDING HEIGHT (FEET)	40
ACTUAL BUILDING HEIGHT (FEET)	14
ALLOWABLE NUMBER OF STORIES	1
ACTUAL NUMBER OF STORIES	1
ALLOWABLE FLOOR AREA ($FEET^2$)	9,000
ACTUAL FLOOR AREA ($FEET^2$)	3,800

TABLE 2 - OCCUPANT LOAD & MEANS OF EGRESS

OCCUPANT LOAD CALCULATION	52
NUMBER OF EXITS	1 PER SPACE
EXIT SEPARATION (FEET)	N/A
BUILDING DIAGONAL (FEET)	N/A
EXIT SIGNS	REQUIRED AND SHALL BE PROVIDED
MAX TRAVEL DISTANCE (FEET)	200
DEAD END CORRIDOR (FEET)	20
COMMON PATH OF TRAVEL (FEET)	75

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

CASEY FIELD & BOODIE ALBERT STADIUM
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Covington, VA 24426

CLIENT

THE CITY OF COVINGTON

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REGISTRATION

COMMONWEALTH OF VIRGINIA
RICHARD THRASHER
Lic. No. 007490
5 May 2023
ARCHITECT

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

BUILDING AND LIFE SAFETY CODE ANALYSIS

SHEET NUMBER

G-004

READY FOR CONSTRUCTION

GENERAL NOTES

SUMMARY OF WORK

1. WORK COVERED BY THE CONTRACT DOCUMENTS CONSISTS OF PROVIDING ALL WORK INDICATED ON THESE DRAWINGS AND / OR REQUIRED BY THE MOST RECENT VERSIONS OF THE VIRGINIA EROSION SEDIMENT CONTROL HANDBOOK, THE SPECIFICATIONS, THE CITY OF COVINGTON REQUIREMENTS, AND ALL APPLICABLE LOCAL AND STATE BUILDING CODES.

2. THE OWNER AGREES TO MAKE THE SITE ACCESSIBLE TO THE CONTRACTOR.

PROPOSED WORK

3. COMPLETE ALL PROPOSED WORK CAREFULLY TO MINIMIZE DISTURBANCE TO ADJACENT AREAS.

4. RESTORE ANY AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL OR PROPOSED CONDITION AND TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

5. IF WORK IS NOT AS ANTICIPATED OR INVOLVES DESIGN MODIFICATION CONSIDERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING.

TESTING

6. ALL TESTING REQUIRED AS PART OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CITY OF COVINGTON. THE CONTRACTOR SHALL COORDINATE ALL TESTING WITH THE OWNER.

7. ALL SOILS FROM OFF-SITE BORROW AREAS SHALL BE TESTED BY A VIRGINIA LICENSED GEOTECHNICAL ENGINEER.

SUBMITTALS

8. CONTRACTOR SHALL DEVELOP A WORKFLOW PLAN AND CONSTRUCTION SCHEDULE FOR SUBMITTAL TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PRE-CONSTRUCTION MEETING. THE PROPOSED WORKFLOW PLAN SHALL DESCRIBE/DELINEATE THE CONTRACTOR'S PROPOSED CONSTRUCTION ACCESS PATHS, ALTERNATE TEMPORARY STOCKPILE LOCATIONS, AND ALTERNATIVE MEANS AND METHODS. THE PROPOSED CONSTRUCTION SCHEDULE SHALL INCLUDE SUBMITTAL REVIEW TIME, KEY CONSTRUCTION AND CRITICAL PATH TASKS, PHASING OF WORK FLOW, WEATHER CONTINGENCY, AS-BUILT SURVEY COORDINATION, PLANTING PERIOD AND SUBSTANTIAL AND/OR FINAL COMPLETION GOALS. THE WORKFLOW PLAN SHALL ALSO DESCRIBE THEIR PROPOSED CONSTRUCTION MEANS AND METHODS.

9. CONTRACTOR SHALL PROVIDE EXPERIENCE QUALIFICATIONS IDENTIFYING THE KEY PERSONNEL TO BE WORKING ON THE PROJECT, INCLUDING THE PROJECT MANAGER, AND SUPERINTENDENT TO THE PROJECT ENGINEER . CONTRACTOR SHALL ALSO SPECIFY THE MINIMUM NUMBER OF DAILY CREW/STAFF AND EQUIPMENT TO BE EXPECTED ONSITE DURING CONSTRUCTION.

10. CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT THREE (3) COPIES OF THE MATERIAL CERTIFICATIONS TO THE PROJECT ENGINEER FOR REVIEW FOR ALL CONSTRUCTION MATERIALS USED ON THE PROJECT SITE. THE CERTIFICATION SHALL STATE THAT THE PRODUCT IS MANUFACTURED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE APPROVED SHOP DRAWING OR DETAIL, AS APPLICABLE. ANY MATERIALS ORDERED OR WORK PERFORMED WITH SAID MATERIALS BY THE CONTRACTOR PRIOR TO THE PROJECT ENGINEER HAS REVIEWING THE RESPECTIVE MATERIAL CERTIFICATIONS SHALL BE AT THE RISK OF THE CONTRACTOR.

11. REVIEW TIME FOR THE SPECIFIED SUBMITTALS SHALL BE CLEARLY NOTED IN THE CONSTRUCTION SCHEDULE. ALLOW A MINIMUM OF ONE (1) WEEKS REVIEW TIME FOR SUBMITTAL PACKAGE.

SITE WORK

12. THE CONTRACTOR SHALL CALL VIRGINIA 811 A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION AND REQUEST ALL UTILITIES TO BE LOCATED.

10. THE LOCATION OF EXISTING UTILITIES ACROSS, ALONG OR IN THE VICINITY OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS, AND WHERE SHOWN, ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY UTILITY LOCATIONS ON PUBLIC AND PRIVATE PROPERTY BEFORE COMMENCING EARTHWORK.

11. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER IN ACCORDANCE WITH THE LATEST EDITION OF THE 29 CFR PART 1926 OSHA STANDARDS FOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION,

12. THE CONTRACTOR IS TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC DURING ALL PHASES OF CONSTRUCTION. PROVIDE CHAIN LINK FENCE AND/OR SAFETY FENCE AS NEEDED. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXCAVATED DITCHES AND SHALL FURNISH AND INSTALL ALL NECESSARY BARRICADES FOR THE PUBLIC.

13. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING BUILDINGS, SIDEWALKS, PAVEMENT, UTILITY POLES & PEDESTALS, ABOVE AND BELOW GROUND UTILITIES ETC, IF THOSE ITEMS ARE NOT DESIGNATED AS TO BE REMOVED. ANY AND ALL DAMAGE CAUSED BY THE CONTRACTOR OR BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR EXPENSE.

14. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER WITH A FIELD SURVEYED FINAL CORRECT SET OF AS-BUILT PLANS OF THE NEWLY CONSTRUCTED STRUCTURE(S) AND UTILITIES PRIOR TO FINAL ACCEPTANCE.

15. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER/ARCHITECT SHOULD DISCREPANCIES BE DISCOVERED AT THE SITE OR ON THE DRAWINGS.

16. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF COVINGTON OF ANY FIELD REVISIONS AND/OR CORRECTIONS TO THE APPROVED PLANS PRIOR TO SUCH CONSTRUCTION.

17. ALL AREAS NOT COVERED WITH PAVEMENT, SIDEWALK, OR STRUCTURES SHALL RECEIVE LANDSCAPING AND PERMANENT SEEDING, AS SHOWN ON THE PLANS.

18. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE MOST RECENT REVISION DATE OF THE PLANS PRIOR TO COMMENCING WITH CONSTRUCTION

19. ALL LINES TO BE STAKED PRIOR TO CONSTRUCTION.

20. ITEMS TO BE SALVAGED SHALL BE STORED IN A PROTECTED AREA.

21. REMOVE ALL CURBING, ASPHALT, AND CONCRETE FROM SITE AS SHOWN ON THE PLANS AND DISPOSE OF OFF-SITE AT AN APPROVED LANDFILL AT NO ADDITIONAL EXPENSE TO THE OWNER.

22. ALL ASPHALT INTERFACES BETWEEN OLD AND NEW PAVEMENT MUST BE SAW CUT TO NEAT STRAIGHT LINES AND A TACK COAT SHALL BE APPLIED AT A RATE OF 0.1 GALLON PER SQUARE YARD OF RC-250 IMMEDIATELY PRIOR TO PLACING THE ASPHALT.

23. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, FROM A QUALIFIED GEOTECHNICAL ENGINEER, MATERIAL TESTING REPORTS FOR ALL AGGREGATES, FILL AND BACKFILL. THESE REPORTS SHALL STATE THEIR COMPLIANCE WITH THE FOLLOWING:
   - CLASSIFICATION ACCORDING TO ASTM D 2487
   - LABORATORY COMPACTION CURVE ACCORDING TO ASTM D 698
   - LABORATORY COMPACTION CURVE ACCORDING TO ASTM D 1557

EARTHWORK

24. ALL SOIL AND SOIL PLACEMENT SHALL BE AS RECOMMENDED IN THE REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION FOR CASEY FIELD LOCKER ROOM PREPARED BY FROEHLING & ROBERTSON DATED FEBRUARY 2023. THE REPORT IS CONTAINED IN THE APPENDIX OF THE SPECIFICATIONS.

25. THE CONTRACTOR SHALL PERFORM MINOR, INVESTIGATIVE EXCAVATIONS TO VERIFY LOCATION OF VARIOUS EXISTING UNDERGROUND FACILITIES AT SUFFICIENT LOCATIONS TO ASSURE THAT NO CONFLICT WITH THE PROPOSED WORK EXISTS AND SUFFICIENT CLEARANCE IS AVAILABLE TO AVOID DAMAGE TO EXISTING FACILITIES.

26. SUBSEQUENT TO THE CLEARING AND ROUGH GRADING OPERATIONS AND PRIOR TO THE PLACEMENT OF THE FILL, THE EXPOSED SUBGRADE SOILS SHALL BE CAREFULLY INSPECTED. ANY UNSUITABLE MATERIAL THUS EXPOSED SHALL BE REMOVED AND REPLACED WITH A WELL COMPACTED AND SUITABLE MATERIAL. THE INSPECTION OF THESE PHASES SHALL BE PERFORMED BY A GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE. DENSITY TESTING AT THE DISCRETION OF THE SOILS ENGINEER SHALL BE PERFORMED AT THIS TIME.

27. STRIP EXISTING VEGETATION LAYER THREE INCHES DEEP MINIMUM FROM AREAS OF SITE TO RECEIVE BUILDINGS, LANDSCAPING, OR PAVING AND REMOVE FROM SITE BEFORE STRIPPING TOPSOIL FOR STORAGE AND REUSE.

28. AFTER STRIPPING VEGETATION LAYER, STRIP EXISTING TOPSOIL AN ADDITIONAL SIX INCHES DEEP MINIMUM FROM AREAS OF SITE TO RECEIVE BUILDINGS AND PAVING AND STORE ON SITE FOR LATER USE.

29. BEFORE MAKING CUTS, REMOVE TOPSOIL OVER AREAS TO BE CUT AND FILLED THAT WAS NOT PREVIOUSLY REMOVED. STOCKPILE THIS ADDITIONAL TOPSOIL WITH PREVIOUSLY STRIPPED TOPSOIL.

30. THE EXISTING STOCKPILED TOPSOIL IS PROPERTY OF CONTRACTOR WITH RESTRICTION THAT TOPSOIL IS TO BE USED FIRST FOR PROJECT LANDSCAPE TOPSOIL REQUIREMENTS AND SECOND FOR NON-STRUCTURAL FILL AND BACKFILL IF APPROVED BY THE TESTING AGENCY. AFTER PROJECT FILL, BACKFILL, AND LANDSCAPE TOPSOIL REQUIREMENTS ARE SATISFIED, REMOVE EXCESS EXISTING TOPSOIL FROM SITE. DO NOT REMOVE EXISTING TOPSOIL FROM SITE WITHOUT THE ENGINEER'S WRITTEN APPROVAL.

31. THE EMBANKMENT FOUNDATIONS AND ABUTMENTS SHALL BEAR ON FIRM AND STABLE EXISTING SUBGRADE WHICH HAS BEEN PREPARED SO AS TO REMOVE ALL ORGANIC, LOOSE, AND GENERALLY UNSUITABLE MATERIAL.

32. DURING GRADING OPERATIONS, THE CONTRACTOR SHALL GRADE ALL AREAS TO DRAIN TO PREVENT THE SATURATION OF THE SOILS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE STOCKPILES FROM RAIN IF THE SOIL IS NEEDED FOR BACKFILL MATERIAL.

33. THE CONTRACTOR SHALL PROOF-ROLL THE CONSTRUCTION AREA WITH HEAVY-PNEUMATIC EQUIPMENT. ALL UNSUITABLE MATERIAL SHALL BE UNDERCUT AND RECOMPACTED WITH APPROVED STRUCTURAL FILL MATERIAL.

34. EARTHWORK SHALL BE TO THE LINES AND GRADES SHOWN. PROOF-ROLLING AND COMPACTION TESTS SHALL BE ACCOMPLISHED IN THE FIELD TO ALL GRADED AREAS. THE GRADING SHALL CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN TO WITHIN A TOLERANCE OF PLUS OR MINUS 0.10 FEET.

35. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE TESTING COMPANY AND BE WELL GRADED MATERIAL CONFORMING TO ASTM D2487 FREE FROM DEBRIS, ORGANIC MATERIAL, FROZEN MATERIALS, BRICK, LIME, CONCRETE, STONES GREATER THAN 4 INCHES DIAMETER, AND OTHER MATERIALS WHICH WOULD PREVENT ADEQUATE PERFORMANCE OF THE BACKFILL. NINETY PERCENT MINIMUM OF FILL MATERIAL SHALL BE SMALLER THAN 1-½ INCH UNDER BUILDINGS, PAVED AREAS, STRUCTURES. THE TOP 36 INCHES OF FILL BENEATH THE TOP SOIL IN LANDSCAPED AREAS SHALL HAVE STONES NO GREATER THAN 2 INCHES AND NINETY PERCENT OF FILL MATERIAL SHALL BE SMALLER THAN ⅜ INCH IN ANY DIRECTION.

36. THE FILL SHALL BE PLACED IN 8 INCH LOOSE LAYERS, 4 INCH LOOSE LAYERS CLOSE TO STRUCTURES AND NARROW TRENCHES AND COMPACTED AS SPECIFIED.

37. FILL MATERIALS SHALL BE ADEQUATELY KEYED ITO STRIPPED AND SCARIFIED SUBGRADE SOILS AND SHOULD, WHERE APPLICABLE, BE BENCHED INTO THE EXISTING SLOPES, THE SUBGRADE SHALL BE SCARIFIED A DEPTH OF 4" PRIOR TO FILL PLACEMENT TO ASSURE BONDING BETWEEN THE TWO SOILS.

38. EXPOSED SUBGRADE WHICH HAS BEEN PREPARED TO ACCEPT FILL MATERIAL, SHALL BE CAREFULLY INSPECTED. ANY UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH A WELL COMPACTED MATERIAL. THE INSPECTION SHALL BE PERFORMED BY A SOILS ENGINEER.

39. ALL NON-STRUCTURAL FILL SHALL BE COMPACTED TO AT LEAST 95% OF THAT SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). THE COMPACTION SHALL BE ACCOMPLISHED BY PLACING THE FILL IN MAXIMUM 8 INCH LOOSE LIFTS AND COMPACTING EACH LIFT WITH HEAVY CONSTRUCTION EQUIPMENT TO THE REQUIRED DENSITY.

40. IN CONFINED AREAS SUCH AS UTILITY TRENCHES, PORTABLE COMPACTION EQUIPMENT AND THIN LIFTS OF 3 TO 4 INCHES MAY BE REQUIRED TO ACHIEVE THE SPECIFIED DEGREE OF COMPACTION.

41. THE MOISTURE CONTENT OF FILL SOILS SHALL BE MAINTAINED WITHIN 2.0 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED FROM THE STANDARD PROCTOR DENSITY TEST.

42. A SOILS ENGINEER, OR A TECHNICIAN UNDER THE ENGINEERS DIRECTION, SHALL PERFORM FIELD DENSITY TESTS ON EACH LIFT AS NECESSARY, TO ASCERTAIN THAT ADEQUATE COMPACTION HAS BEEN ACHIEVED.

43. ENSURE THAT LAND DISTURBING PERMITS AND THE PROPER EROSION AND SEDIMENT CONTROLS ARE IN PLACE FOR THE CONSTRUCTION SITE AND THE OFF-SITE BORROW AND SPOIL SITE.

CONCRETE SIDEWALK AND PAD CONSTRUCTION

44. CONCRETE SIDEWALK AND PAD SHALL BE SHALL BE VDOT STANDARD A-4 (4,000 PSI) AIR ENTRAINED CONCRETE, AND INSTALLED IN ACCORDANCE WITH SECTION 504 OF THE LATEST REVISION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

45. SIDEWALK FINISH: SIDEWALK SHALL FIRST BE SMOOTH TROWELLED, THEN ENDING WITH A "LIGHT BROOM FINISH" UNLESS OTHERWISE NOTED.

46. WHEN SIDEWALK ABUTS CURB OR BUILDING, A 1/2" PREMOLDED EXPANSION JOINT SHALL BE USED.

47. CURING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 220 OF THE LATEST REVISION OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

GENERAL UTILITY NOTES

48. IF WATER IS NEEDED FOR ANY PART OF THIS PROJECT, IT SHALL ONLY BE SUPPLIED VIA CONNECTIONS WHICH HAVE ADDRESSED BACKFLOW. SERVICE CONNECTIONS SHALL NOT BE UTILIZED FOR DEMOLITION, GRADING, CONSTRUCTION/ RENOVATION, AND/OR LANDSCAPING PURPOSES UNTIL THE APPROPRIATE RP'S (OR RPDA'S) FOR BACKFLOW HAVE BEEN INSTALLED. THIS INCLUDES TEMPORARY AND PERMANENT CONNECTIONS.

49. ALL UTILITIES SHALL BE INSTALLED PER CITY OF COVINGTON STANDARDS AND SPECIFICATIONS OR THE UTILITY OWNER, WHICHEVER IS APPLICABLE.

50. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL ABOVE GROUND AND BELOW GROUND UTILITY LINE OWNERS.

51. CONTACT COLUMBIA GAS FOR NATURAL GAS CONNECTION, 1-800-440-6111. COLUMBIA GAS WILL INSTALL THE GAS LINE TO THE METER AND PROVIDE THE METER. THE CONTRACTOR SHALL INSTALL THE METER PER COLUMBIA GAS REQUIREMENTS AND SPECIFICATIONS.

52. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH DIMENSIONED AS-BUILT DRAWINGS INDICATING LOCATIONS, ELEVATIONS, MATERIALS, ETC. OFF ALL UNDERGROUND UTILITIES. NO UTILITY TRENCHES SHALL BE BACKFILLED UNTIL THE AS-BUILT DRAWING ARE UPDATED.

53. ALL UTILITIES REQUIRE WARNING TAPE: ACID AND ALKALI RESISTANT POLYETHYLENE FILM WARNING TAPE MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, MINIMUM SIX INCHES WIDE AND FOUR MILLS THICK, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF THE UTILITY. ALL NON METALLIC UTILITIES SHALL ALSO WITH A METALLIC CORE ENCASED IN A PROTECTIVE JACKET FOR CORROSION PROTECTION, DETECTABLE BY A METAL DETECTOR WHEN TAPE IS BURIED THIRTY INCHES DEEP AND COLOR CODED TO THE TO AMERICAN PUBLIC WORKS ASSOCIATION STANDARDS.

54. EXCAVATE TO PROPER ALIGNMENT, DEPTH, AND GRADE. EXCAVATE TO SUFFICIENT WIDTH TO ALLOW ADEQUATE SPACE FOR PROPER INSTALLATION AND INSPECTION OF UTILITY PIPING.

55. IF TRENCHES ARE EXCAVATED DEEPER THAN REQUIRED, BACKFILL UNTIL TRENCH BOTTOM IS PROPER DEPTH WITH PROPERLY COMPACTED NATIVE MATERIAL OR VDOT #8 AGGREGATE.

56. ALL TRENCHES SHALL BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT AND DAMAGE TO FUTURE PAVEMENT AND STRUCTURES

57. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND UNCOVERING ALL VALVE VAULTS, METERS, ETC..., AFTER PAVING AND ADJUSTING TO FINAL GRADE.

58. WATER AND SEWER SERVICE OR CONFLICTS SHALL BE COORDINATED WITH THE CITY OF COVINGTON WATER DEPARTMENT.

59. NATURAL GAS SERVICE OR CONFLICTS SHALL BE COORDINATED WITH COLUMBIA GAS FOR NATURAL GAS CONNECTION, 1-800-440-6111.

SANITARY-SEWER NOTES

60. A MINIMUM OF THREE (3) FEET OF COVER OVER ALL SEWER LINES IS REQUIRED.

61. ALL SANITARY SEWER WORK SHALL BE CONSTRUCTED TO THE LINES AND GRADES INDICATED. PIPE BEDDING AND BACKFILL SHALL BE CAREFULLY CONTROLLED. ALL WORK SHALL COMPLY WITH ALL LOCAL CODES AND REQUIREMENTS.

62. ALL TRENCHES SHALL BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT AND DAMAGE TO FUTURE PAVEMENT, STRUCTURES, AND UTILITIES.

68. 6-INCH POLYVINYL CHLORIDE (PVC) SEWER PIPE CONFORMING TO ASTM DESIGNATION D3034 (SDR-26) SHALL BE USED BETWEEN THE SEWER MAIN AND THE CLEANOUT. SEWER LATERAL FITTINGS SHALL BE OF SAME SDR RATING AS SEWER MAIN AND HAVE WATERTIGHT JOINTS. PIPE AND FITTING JOINTS SHALL HAVE AN INTEGRAL BELL "WATER-TIGHT" JOINT THAT MEETS THE REQUIREMENTS OF ASTM D3212 AND THAT UTILIZES A ELASTOMETRIC OR RUBBER RING GASKET SYSTEM FOR SEALING THAT MEETS THE REQUIREMENTS OF ASTM F477.

69. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND UNCOVERING ALL CLEANOUTS, MANHOLES, ETC.., AFTER PAVING AND ADJUSTING TO FINAL GRADE.

WATER NOTES

70. A MINIMUM OF THREE (3) FEET OF COVER OVER ALL WATER LINES IS REQUIRED.

71. ALL WATER LINES SHALL BE INSTALLED AS SHOWN ON THE PLANS. ALL PIPES, VALVES, AND FITTINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AWWA STANDARDS AND ALL STATE AND LOCAL CODES AND THEIR STANDARDS.

72. THE SERVICE CONNECTIONS SHALL BE FROM THE MAIN TO THE STRUCTURE SHALL BE "K" TYPE COPPER OR POLYETHYLENE (PE). PE TUBING SHALL BE PRODUCED WITH PE 4710 BIMODAL RESINS. IT SHALL BE SODR-9, COPPER TUBE SIZE (CTS), MEETING THE REQUIREMENTS OF AWWA C901 AND ASTM D2737 AND PRESSURE RATED FOR 200 PSI. TUBING SHALL BE CERTIFIED ACCORDING TO NSF 61 AND THE SAME SHALL BE INDICATED ON THE PIPE. TUBING SHALL BE ENDOPURE BY ENDOT INDUSTRIES, INC. OR EQUAL.

73. ALL CONNECTIONS SHALL USE APPROVED CTS COMPRESSION CONNECTION FITTINGS. PIPE STIFFENERS/ INSERTS FOR PE TUBING SHALL BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FITTINGS FOR SERVICE LINES SHALL MEET ANSI/AWWA SPECIFICATION C800. SOLDER CONNECTION SHALL NOT BE USED FOR UNDERGROUND SERVICE

74. PE PIPE SHALL BE ASSEMBLED AND JOINED AT THE SITE USING THE BUTT-FUSION METHOD TO PROVIDE A LEAK PROOF JOINT. THREADED OR SOLVENT-CEMENT JOINTS AND CONNECTIONS SHALL NOT BE PERMITTED. ALL EQUIPMENT AND PROCEDURES USED SHALL BE USED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

75. JOINING SHALL BE MADE BY PERSONNEL CERTIFIED BY THE PIPE MANUFACTURER IN THE USE OF BUTT-FUSION EQUIPMENT AND RECOMMENDED METHODS FOR NEW PIPE CONNECTIONS. PERSONNEL DIRECTLY INVOLVED WITH INSTALLING THE NEW PIPE SHALL HAVE CURRENT CERTIFICATION IN THE PROPER METHODS FOR HANDLING AND INSTALLING THE HDPE PIPE. CERTIFICATION SHALL BE PERFORMED BY A QUALIFIED REPRESENTATIVE OF THE PIPE MANUFACTURER.

76. BUTT-FUSED JOINT SHALL BE TRUE ALIGNMENT AND SHALL HAVE UNIFORM ROLL-BACK BEAD RESULTING FROM THE USE OF PROPER TEMPERATURE AND PRESSURE. JOINT SHALL BE ALLOWED ADEQUATE COOLING TIME BEFORE REMOVAL OF PRESSURE. FUSED JOINT SHALL BE WATERTIGHT AND SHALL HAVE TENSILE STRENGTH EQUAL TO THAT OF THE PIPE. ALL JOINTS SHALL BE SUBJECT TO ACCEPTANCE BY THE PARTICIPATING UTILITY AND/OR THEIR REPRESENTATIVE PRIOR TO INSERTION.

77. ANY SECTION OF THE PIPE WITH A GASH, BLISTER, ABRASION, NICK, SCAR, OR OTHER DELETERIOUS FAULT GREATER IN DEPTH THAN TEN PERCENT (10%) OF THE WALL THICKNESS, SHALL NOT BE USED AND MUST BE REMOVED FROM THE SITE.

78. WATER LINES SHALL BE PRESSURE TESTED, DISINFECTED, AND TESTED IN ACCORDANCE WITH AWWA STANDARDS (LATEST EDITION), WITH LOCAL AND STATE CODES AND THEIR STANDARDS.

79. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, AND NECESSARY TAPS AND SHALL PERFORM ALL WORK REQUIRED FOR STERILIZATION, TESTING, AND FLUSHING.

GENERAL CIVIL NOTES

EROSION CONTROL NOTES

80. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

81. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, OR OTHERWISE MODIFY CERTAIN MEASURES WHERE FIELD CONDITIONS WARRANT. EROSION CONTROL MEASURES SHOWN ARE NOT NECESSARILY ALL THAT WILL BE REQUIRED.

82. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ADVANCE OF WORK BEING PERFORMED, AS FAR AS PRACTICAL.

83. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.

84. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.

85. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EVERY ERODIBLE RAINFALL. ANY NECESSARY REPAIRS OR CLEANUP SHALL BE MADE IMMEDIATELY AND AT NO EXTRA COST TO THE OWNER.

86. EROSION CONTROL GENERAL CONSTRUCTION SEQUENCE
   - INSTALLATION OF E&S CONTROLS
   - ESTABLISH ACTIVE WORK ZONES
   - COMPLETE ACTIVE WORK ZONE CONSTRUCTION
   - FINAL STABILIZATION WILL BE PERFORMED AS WORK ZONES ARE COMPLETED.
   - REMOVAL OF REMAINING E&S CONTROLS.

SURVEYING

87. THE CONTRACTOR'S SURVEYOR SHALL STAKE OUT BUILDING LOCATIONS, UTILITIES AND OTHER SITE IMPROVEMENTS. CONTROL BENCHMARKS SHALL BE CLEARLY MARKED AND PROTECTED.

88. IF DURING CONSTRUCTION, THE EXISTING ELEVATIONS SHOWN ON THESE CONSTRUCTION DRAWINGS ARE FOUND TO DIFFER MORE THAN 0.1 FEET FROM THE ELEVATIONS IN THE FIELD, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY FOR AN ADJUSTMENT IN ELEVATIONS. REVIEW TIME FOR ADJUSTMENTS WILL TAKE A MINIMUM OF ONE (1) WEEK.

89. THE OWNER'S SURVEYOR SHALL SCHEDULE AND PERFORM THE AS-BUILT SURVEY FOLLOWING WRITTEN NOTIFICATION FROM THE CONTRACTOR TO THE PROJECT ENGINEER STATING THAT DESIGN GRADE HAS BEEN ACHIEVED.

90. THE CONTRACTOR IS EXPECTED TO PERFORM FIELD SURVEY VERIFICATION PRIOR TO PROVIDING WRITTEN NOTIFICATION FOR AS-BUILT SURVEY COORDINATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH ADDITIONAL AS-BUILT SURVEY RESULTING FROM PROJECT AREAS DISCOVERED TO NOT BE IN SUBSTANTIAL ACCORDANCE WITH THE SPECIFIED DESIGN.

MINIMIZING IMPACTS

91. MATERIAL STORAGE AND STAGING AREAS SHALL BE LOCATED AND PROTECTED AS SHOWN ON THE ATTACHED EROSION AND SEDIMENT CONTROL PLAN SHEETS. ALL EQUIPMENT AND SUPPLIES SHALL BE STORED WITHIN THE CONSTRUCTION STAGING AREA WHILE CONSTRUCTION ACTIVITIES HAVE CEASED FOR THE DAY.

92. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS AND DISPOSE OF OFFSITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. ANY NECESSARY PERMITS REQUIRED FOR SUCH DISPOSAL SHALL BE OBTAINED BY THE CONTRACTOR AT THEIR EXPENSE.

93. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND DEVICES NECESSARY TO PROTECT THE PROJECT LIMITS, ADJACENT PROPERTY, EMPLOYEES, AND THE GENERAL PUBLIC FOR THE DURATION OF THE PROJECT CONSTRUCTION.

MISCELLANEOUS

94. ALL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AND OTHER CRITERIA ADOPTED BY THE CLIENT.

95. NO WORK SHALL COMMENCE ON SITE UNTIL A LAND DISTURBING PERMIT IS ISSUED BY THE CITY OF COVINGTON. THE LAND DISTURBANCE PERMIT MUST BE KEPT ON SITE AT ALL TIMES AND SHOWN ON DEMAND.

96. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND LICENSES REQUIRED BY THE STATE OF VIRGINIA, THE CITY OF COVINGTON, OR OTHER GOVERNING AGENCIES INVOLVED UNDER THIS CONTRACT.

97. THE CITY OF COVINGTON SHALL BE NOTIFIED WHEN THE WORK COMMENCES AND WHEN THE PROJECT IS COMPLETE.

98. CONTRACTOR SHALL BE RESPONSIBLE TO IMMEDIATELY REPAIR ANY ACTIVE UTILITIES DAMAGED DURING CONSTRUCTION AND TO NOTIFY THE CITY OF COVINGTON AND THE UTILITY OWNERS REPRESENTATIVE AND ANY APPROPRIATE UTILITY COMPANIES OF THE DAMAGE.

99. PROVIDE POSITIVE DRAINAGE AT ALL GRADED AREAS.

100. PROVIDE UNIFORM (STRAIGHT) GRADE BETWEEN SPOT ELEVATIONS, FINISH CONTOURS, TOP OF INLETS, ETC.

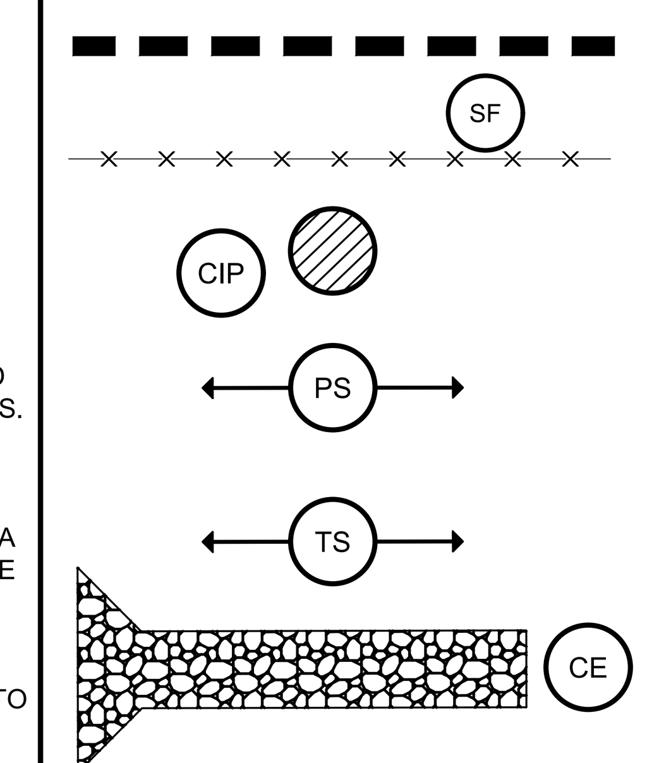
101. SAW CUT PAVEMENT WHERE SHOWN TO PROVIDE A CLEAN NEAT STRAIGHT EDGE TO ADJOIN NEW PAVEMENT

102. REMOVE SECTION OF FENCE AS NEED TO CONSTRUCT STRUCTURE. REPLACE FENCE TO ADJOIN PROPOSED STRUCTURE WITH LIKE MATERIALS AND WORKMANSHIP

CIVIL LEGEND

NEW	EXISTING	
		BLDG
		ASPHALT
		CONCRETE
X	X	FENCE LINE
SS	SS	SANITARY LINE
	SD	STORM LINE
G	G	NATURAL GAS LINE
W	W	WATER LINE
UGE	UGE	UNDERGROUND ELECTRICAL
		DEMOLITION AND REMOVAL
		DEMOLITION AND REMOVAL
	SSMH	SANITARY MANHOLE
	DI	CURB/GRATE/DROP INLET
		FIRE HYDRANT
	LP	LIGHT POLE
	PP	UTILITY POLE
		CONTROL POINT
		BENCHMARK
CO		SANITARY CLEANOUT
FFE=220.0	FFE=220.0	FINISH FLOOR ELEVATION
x 23.5	220.0 +	SPOT ELEVATIONS
23	1220	ELEVATION CONTOUR
x EG 24.50		EXISTING GRADE
x FG 24.50		FINISHED GRADE
x TS 24.50		TOP OF SLAB/SIDEWALK ELEVATION
⇒		RUNOFF DIRECTION

EROSION AND SEDIMENT CONTROL



CONSTRUCTION LIMITS
SILT FENCE
CULVERT INLET PROTECTION
PERMANENT SEEDING
TEMPORARY SEEDING
CONSTRUCTION ENTRANCE

GENERAL SURVEY NOTES

1. SURVEY WAS PERFORMED BY AECOM IN DECEMBER OF 2021.

2. HORIZONTAL DATUM IS REFERENCED TO: NORTH AMERICAN DATUM OF 1983 (NAD83) STATE PLANE GRID, VIRGINIA SOUTH ZONE

3. VERTICAL DATUM IS REFERENCED TO: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)

4. EXISTING TOPOGRAPHY MAY HAVE CHANGED SINCE THE SURVEY WAS PERFORMED AND THEREFORE EXISTING ELEVATIONS MAY DIFFER FROM THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL COORDINATE WITH OWNER AND VERIFY EXISTING GRADES PRIOR TO ESTIMATING EARTHWORK QUANTITIES REQUIRED FOR CONSTRUCTION.

5. EXISTING UNDERGROUND UTILITY LOCATIONS, AS SHOWN ON THE PLANS, WERE OBTAINED FROM A COMBINATION OF EXISTING SITE DRAWINGS, A FIELD SURVEY, AND LIMITED UTILITY LOCATIONS. CONTRACTOR TO VERIFY UNDERGROUND UTILITY LOCATIONS.

6. THE PROJECT IS LOCATED IN FEMA DESIGNATED FLOOD ZONE AE AS DEFINED BY PANEL 211 OF FIRM MAP NUMBER 51005CO211D DATED 12/17/2010. THE PROJECT SITE FLOOD ELEVATION IS APPROXIMATELY 1226.4± (INTERPOLATED).

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

CASEY FIELD & BOODIE ALBERT STADIUM
700 West Oak St
Covington, VA 24426

CLIENT

THE CITY OF COVINGTON

333 W. Locust St
Covington, VA 24426
540.965.6300 tel 540.965.6303 fax
covington.va.us

ARCHITECT OF RECORD

AECOM
10 South Jefferson Street, Suite 1600
Roanoke, Virginia 24011
540.857.3100 tel 540.857.3180 fax
www.aecom.com

REGISTRATION

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

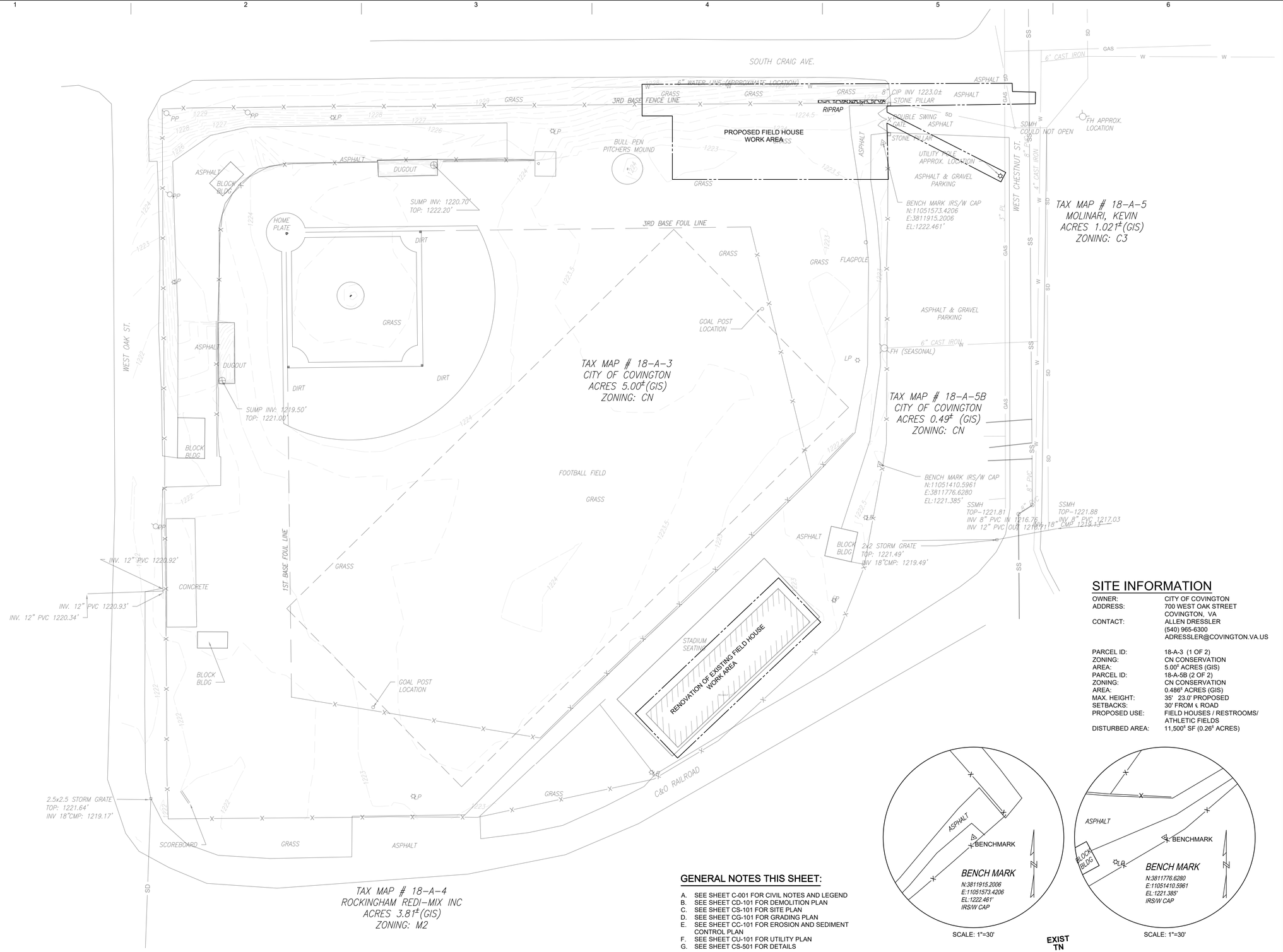
CIVIL NOTES AND LEGEND

SHEET NUMBER

C-001

READY FOR CONSTRUCTION

Last saved by: AYLESM(2023-05-02) Last Plotted: 2023-05-02
Filename: \\NA.AECOMNET.COM\LFS\AMER\ROANOKE-USRNK1\DCS\PROJECTS\BDL\60699711\900_CAD_GIS\910_CAD\20-SHEETS\C\60699711-C-001.DWG



SITE INFORMATION

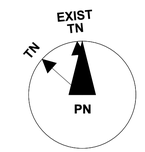
OWNER:	CITY OF COVINGTON
ADDRESS:	700 WEST OAK STREET COVINGTON, VA
CONTACT:	ALLEN DRESSLER (540) 965-6300 ADRESSLER@COVINGTON.VA.US
PARCEL ID:	18-A-3 (1 OF 2)
ZONING:	CN CONSERVATION
AREA:	5.00± ACRES (GIS)
PARCEL ID:	18-A-5B (2 OF 2)
ZONING:	CN CONSERVATION
AREA:	0.486± ACRES (GIS)
MAX. HEIGHT:	35' 23.0' PROPOSED
SETBACKS:	30' FROM ℄ ROAD
PROPOSED USE:	FIELD HOUSES / RESTROOMS/ ATHLETIC FIELDS
DISTURBED AREA:	11,500± SF (0.26± ACRES)

SCALE: 1"=30'

SCALE: 1"=30'

GENERAL NOTES THIS SHEET:

A. SEE SHEET C-001 FOR CIVIL NOTES AND LEGEND
B. SEE SHEET CD-101 FOR DEMOLITION PLAN
C. SEE SHEET CS-101 FOR SITE PLAN
D. SEE SHEET CG-101 FOR GRADING PLAN
E. SEE SHEET CC-101 FOR EROSION AND SEDIMENT CONTROL PLAN
F. SEE SHEET CU-101 FOR UTILITY PLAN
G. SEE SHEET CS-501 FOR DETAILS



30' 15' 0 30' 60'
1"=30'

GRAPHIC SCALES

READY FOR CONSTRUCTION

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

CASEY FIELD & BOODIE ALBERT STADIUM
700 West Oak St
Covington, VA 24426

CLIENT

THE CITY OF COVINGTON
333 W. Locust St
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REGISTRATION

COMMONWEALTH OF VIRGINIA
05/05/2023
MARK JOHN AYLES
Lic. No. 034160
PROFESSIONAL ENGINEER

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

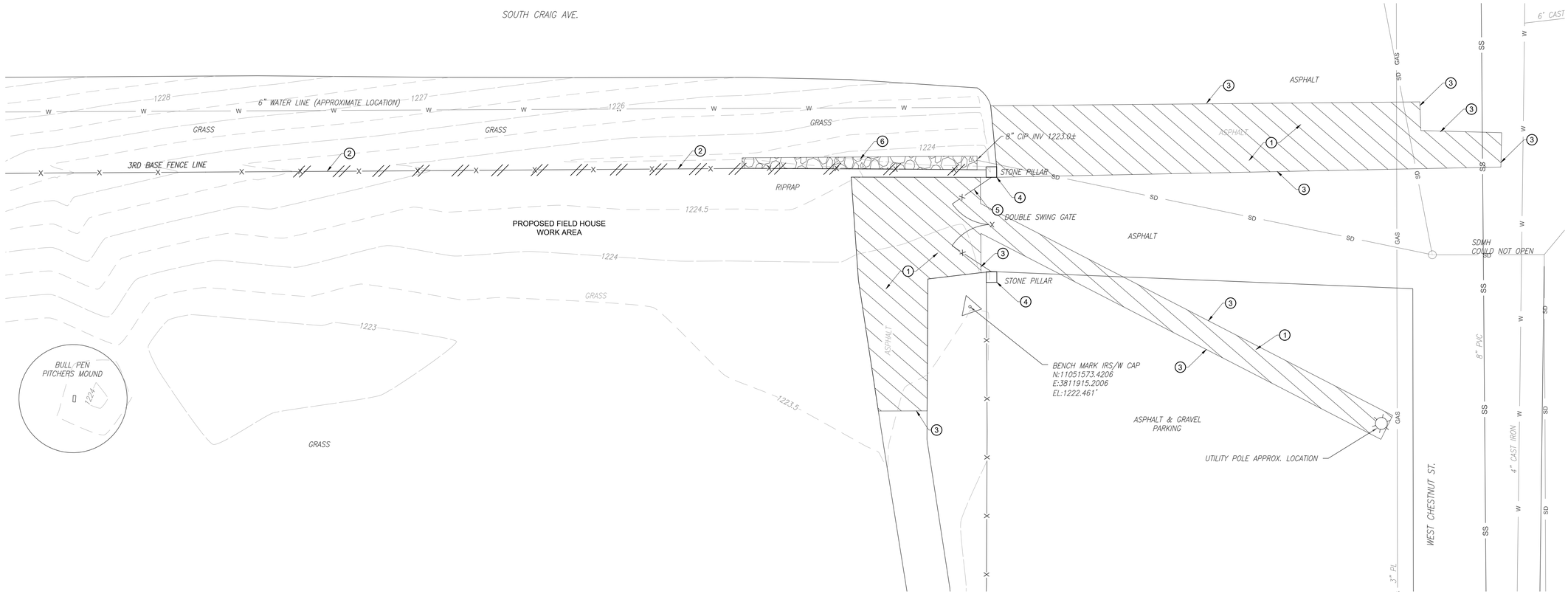
SHEET TITLE

OVERALL
EXISTING LAYOUT

SHEET NUMBER

CE-101

Last saved by: AYLESM(2023-04-28) Last Plotted: 2023-05-02
Filename: \\NA.AECOMNET.COM\LFS\AMERROAN\OKE-USRNK1\DCS\PROJECTS\BDL\60699711900_CAD_GIS\910_CAD\20-SHEETS\C\60699711-CE-101.DWG

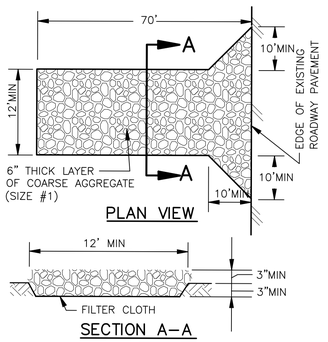


GENERAL NOTES THIS SHEET:

A. SAW CUT ASPHALT TO PROVIDE A NEAT, STRAIGHT EDGE TO ADJOINING ASPHALT
B. SEE SHEET C-001 FOR CIVIL NOTES AND LEGEND
C. SEE SHEET CE-101 FOR EXISTING LAYOUT
D. SEE SHEET CS-101 FOR LAYOUT PLAN
E. SEE SHEET CG-101 FOR GRADING PLAN
F. SEE SHEET CC-101 FOR EROSION AND SEDIMENT CONTROL PLAN
G. SEE SHEET CU-101 FOR UTILITY PLAN
H. SEE SHEET CS-501 FOR DETAILS

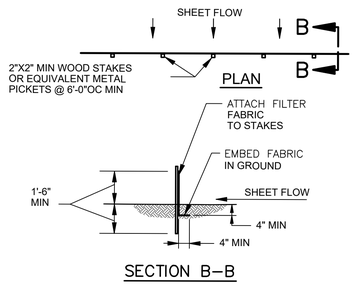
◯ SHEET KEYNOTES:

1. REMOVE ASPHALT
2. REMOVE CHAIN-LINK FENCE (AT POST)
3. SAW CUT ASPHALT EDGES
4. DO NOT DISTURB OR UNDERMINE PILLARS
5. DO NOT DISTURB METAL SWING GATE
6. REMOVE RIPRAP



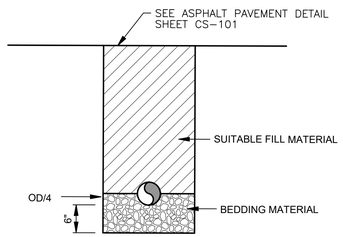
TEMPORARY CONSTRUCTION ENTRANCE (CE)

NO SCALE



TEMPORARY SILT FENCE (SF)

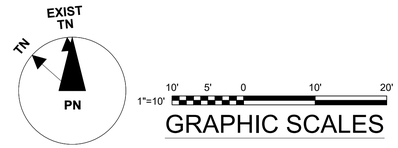
NO SCALE



NOTES:
1. MAXIMUM AND MINIMUM TRENCH WIDTHS ARE 2'-0"-1'-2" FOR 4" Ø PIPE AND 2'-8"-1'-6" FOR 8"Ø PIPE, MEASURED 1 FOOT ABOVE THE TOP OF THE PIPE.
2. BEDDING MATERIAL SHALL BE COMPACTED VDOT 21A OR 21B AGGREGATE
3. FILL MATERIAL SHALL BE COMPACTED VDOT 21A OR 21B AGGREGATE
4. FILL AND COMPACT AGGREGATE IN 4-INCH LIFTS

TRENCH DETAIL (PVC,CONC & DI PIPE)

NO SCALE



GRAPHIC SCALES

READY FOR CONSTRUCTION

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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REGISTRATION

COMMONWEALTH OF VIRGINIA
05/05/2023
MARK JOHN AYLES
Lic. No. 034160
PROFESSIONAL ENGINEER

SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

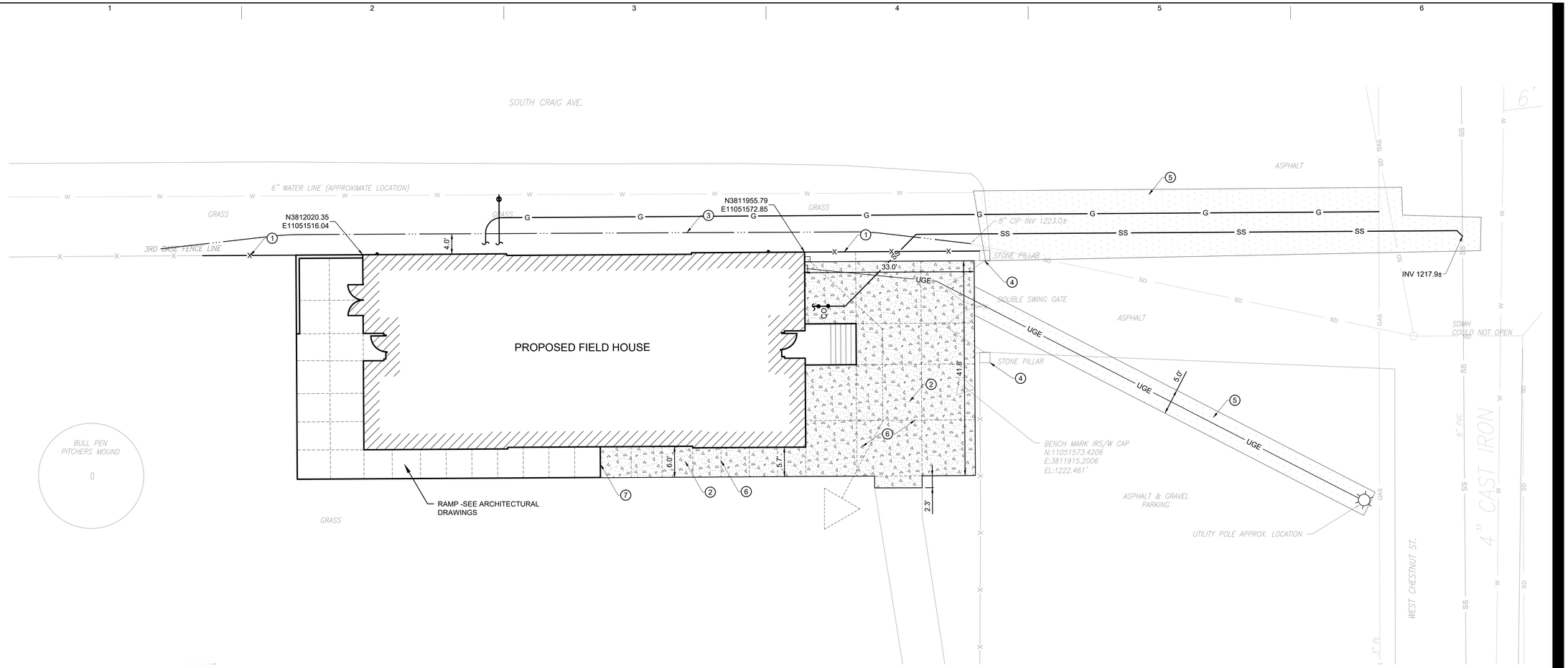
SHEET TITLE

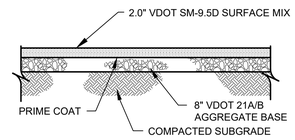
FIELD HOUSE
DEMOLITION PLAN

SHEET NUMBER

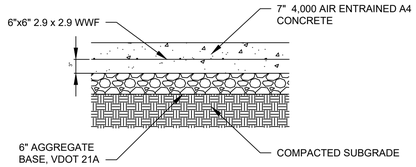
CD-101

Last saved by: AYLESM(2023-04-28) Last Plotted: 2023-05-02
Filename: \\NA.AECOMNET.COM\LFS\AMERROAN\OKE-USRNK1\DCS\PROJECTS\BDL\60699711\900_CAD_GIS\910_CAD\20-SHEETS\C\60699711-CD-101.DWG



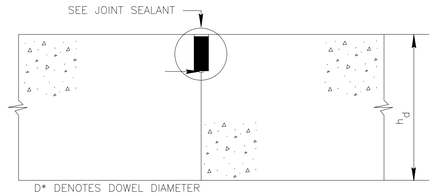


ASPHALT PAVEMENT DETAIL
NO SCALE

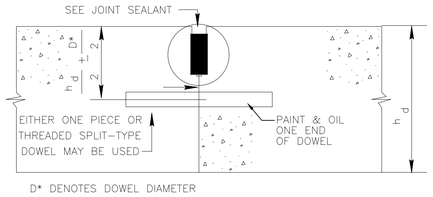


NOTES:
1. THICKNESS AFTER COMPACTION
2. GRADE SURROUNDING SOILS 1" BELOW THE TOP OF THE CONCRETE AND GRADE THE SURROUNDING SOIL TO DRAIN
3. CONCRETE SHALL BE VDOT A4 AIR ENTRAINED 4,000 PSI

RIGID PAVEMENT DETAILS
NO SCALE



CONTRACTION JOINT (WIDTH 1/2")



TRANSVERSE OR LONGITUDINAL CONSTRUCTION JOINT - DOWELED

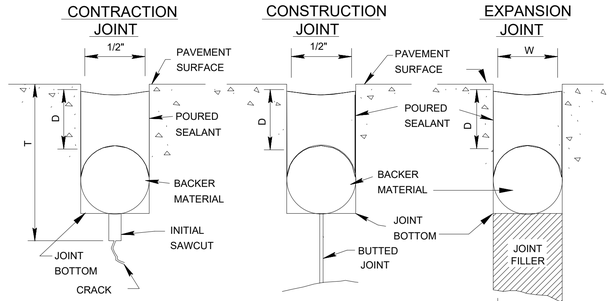
RIGID PAVEMENT DETAILS
NO SCALE

GENERAL NOTES THIS SHEET:

A. SEE SHEET C-001 FOR CIVIL NOTES AND LEGEND
B. SEE SHEET CE-101 FOR EXISTING LAYOUT
C. SEE SHEET CD-101 FOR DEMOLITION PLAN
D. SEE SHEET CG-101 FOR GRADING PLAN
E. SEE SHEET CC-101 FOR EROSION AND SEDIMENT CONTROL PLAN
F. SEE SHEET CU-101 FOR UTILITY PLAN
G. SEE SHEET CS-501 FOR DETAILS

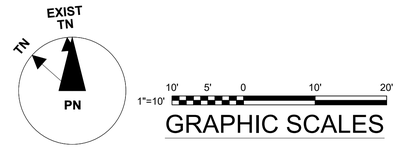
SHEET KEYNOTES:

1. NEW FENCE
2. CONCRETE PAVEMENT - SEE DETAIL BELOW
3. DRAINAGE DITCH - SEE DETAIL SHEET CG-101
4. ADJUST GATE HINGES / GATE AS NEEDED
5. ASPHALT PAVEMENT REPAIR - SEE DETAIL BELOW
6. CONCRETE CONTRACTION JOINT, TYP
7. CONCRETE CONSTRUCTION JOINT



NOTES ON POURED JOINT SEALANT:
1. DEPTH (D) OF SEALANT EQUAL 1 TO 1.5 TIMES THE WIDTH (W) OF THE SEALANT RESERVOIR

POURED JOINT SEALANT
RIGID PAVEMENT DETAILS
NO SCALE



GRAPHIC SCALES

READY FOR CONSTRUCTION

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PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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REGISTRATION

COMMONWEALTH OF VIRGINIA
05/05/2023
MARK JOHN AYLES
Lic. No. 034160
PROFESSIONAL ENGINEER

SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

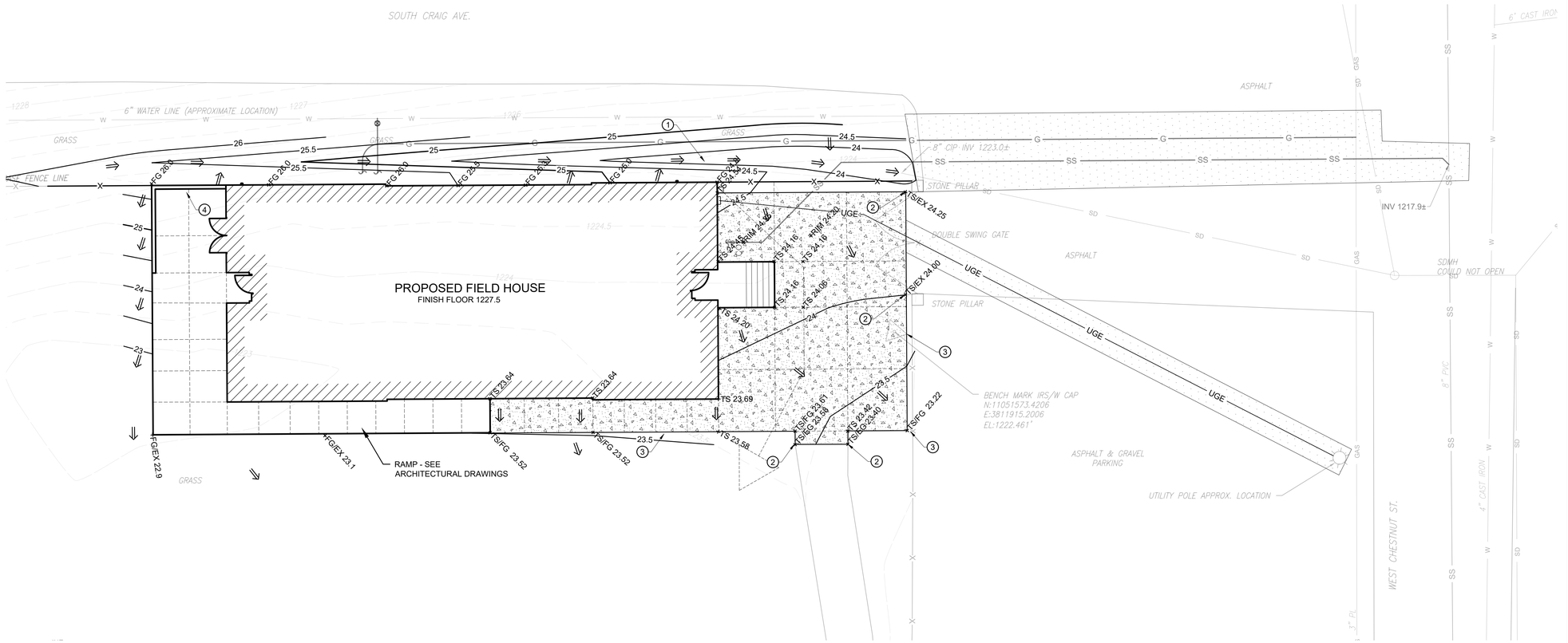
SHEET TITLE

FIELD HOUSE
SITE PLAN

SHEET NUMBER

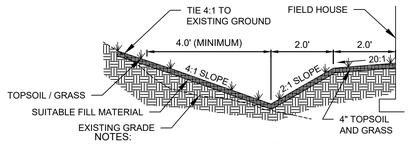
CS-101

Last saved by: AYLESM (2023-04-28) Last Plotted: 2023-05-02
Filename: \\NA.AECOMNET.COM\LFS\AMER\ROA\NKE-USRNK1\DCS\PROJECTS\BDL\60699711\900_CAD_GIS\910_CAD\20-SHEETS\C60699711-CS-101.DWG



MINIMUM STANDARDS

1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 7 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. *THE LOCATION OF TEMPORARY AND PERMANENT SEEDING IS SHOWN ON THE EROSION CONTROL PLAN SHEETS AND SPECIFIED ON THE EROSION CONTROL DETAIL SHEET.*
2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE. *SOIL STOCKPILE AREAS ARE SHOWN ON THE EROSION CONTROL PLAN SHEET. THE CONTRACTOR IS INSTRUCTED TO CONTACT THE CITY OF COVINGTON IF AN OFF-SITE BORROW OR WASTE SITE IS REQUIRED. ALL OFF-SITE AREAS REQUIRE E&S CONTROLS AND PERMITS.*
3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION. *ALL DISTURBED AREAS, NOT PERMANENTLY STABILIZED, SHALL RECEIVE PERMANENT SEEDING AS SHOWN ON THE PLAN SHEETS.*
4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE. *THE CONTRACTOR IS INSTRUCTED TO INSTALL CERTAIN MEASURES AS THE FIRST STEP IN THE CONSTRUCTION PROCESS. CULVERT INLET PROTECTION IS SHOWN ON THE EROSION CONTROL PLAN SHEET & EXPLAINED IN THE E&S NARRATIVE.*
5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION. *NOT APPLICIABLE.*
6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN. *NOT APPLICABLE AS NO SEDIMENT TRAPS OR BASINS ARE REQUIRED OR PROVIDED.*
7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED. *ALL CUT/FILL SLOPES ARE SPECIFIED AS 2:1 MINIMUM AND WILL RECEIVE PERMANENT SEEDING, IMMEDIATELY AFTER CONSTRUCTION OF THE ITEM.*
8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE. *IF CONCENTRATED RUNOFF CAUSES EROSION DOWN A CUT OR FILL SLOPE, THE CONCENTRATED FLOW IS TO BE CAPTURED AND CONTAINED IN A STORM SYSTEM OR ADEQUATE CHANNEL, AND THE SLOPE REPAIRED AND STABILIZED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.*
9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED. *NOT APPLICABLE. AS NO UNDERGROUND WATER NEAR THE SURFACE WAS ENCOUNTERED DURING THE SITE TESTING BY F&R.*
10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. *CULVERT INLET PROTECTION AND OTHER MEASURES ARE SHOWN ON THE EROSION CONTROL PLAN SHEET.*
11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL. *THE EXISTING CULVERT HAS CIP SPECIFIED TO PREVENT SEDIMENT FROM ENTERING THE SYSTEM.*
12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS. *NOT APPLICABLE AS NO WORK IN A LIVE WATER COURSE IS NOT ANTICIPATED*
13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED. *NOT APPLICABLE AS NO WORK IN A LIVE WATER COURSE IS NOT ANTICIPATED*
14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET. *NOT APPLICABLE AS NO WORK IN A LIVE WATER COURSE IS NOT ANTICIPATED*
15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED. NOT APPLICABLE.
16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: *THE CONTRACTOR IS INSTRUCTED TO FOLLOW ALL MS-18 REQUIREMENTS AS NOTED IN THE PLAN SET.*
    - 16.1. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
    - 16.2. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
    - 16.3. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
    - 16.4. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
    - 16.5. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
    - 16.6. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES. A *CONSTRUCTION ENTRANCE IS SHOWN ON THE EROSION CONTROL PLAN SHEET.*
18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. *THE CONTRACTOR IS INSTRUCTED TO REMOVE ALL E&S ITEMS AS NOTED ABOVE.*



NOTES:
1. 4.0 INCHES OF TOPSOIL REQUIRED
2. THE DEPTH OF THE DITCH IS 1.0'
3. COMPACT SUBGRADE AND AGGREGATE TO 95%OF THE THEORETICAL MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.

GRASS DRAINAGE DITCH

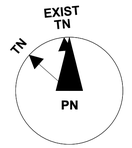
NO SCALE

GENERAL NOTES THIS SHEET:

A. ALL CUT / FILL SLOPES, EXCEPT FOR THE DRAINAGE DITCH, SHALL BE 4:1 OF FLATTER
B. SEE SHEET C-001 FOR CIVIL NOTES AND LEGEND
C. SEE SHEET CE-101 FOR EXISTING LAYOUT
D. SEE SHEET CD-101 FOR DEMOLITION PLAN
E. SEE SHEET CS-101 FOR LAYOUT PLAN
F. SEE SHEET CC-101 FOR EROSION AND SEDIMENT CONTROL PLAN
G. SEE SHEET CU-101 FOR UTILITY PLAN
H. SEE SHEET CS-501 FOR DETAILS

◯ SHEET KEYNOTES:

1. EARTHEN DRAINAGE DITCH - SEE DETAIL BELOW
2. MATCH EXISTING GRADE ELEVATION
3. 4:1 FILL SLOPE
4. DRAIN TO INLET - SEE ARCHITECTURAL DRAWINGS FOR DETAILS



1"=10' 10' 5' 0 10' 20'

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PROJECT NUMBER

60699711

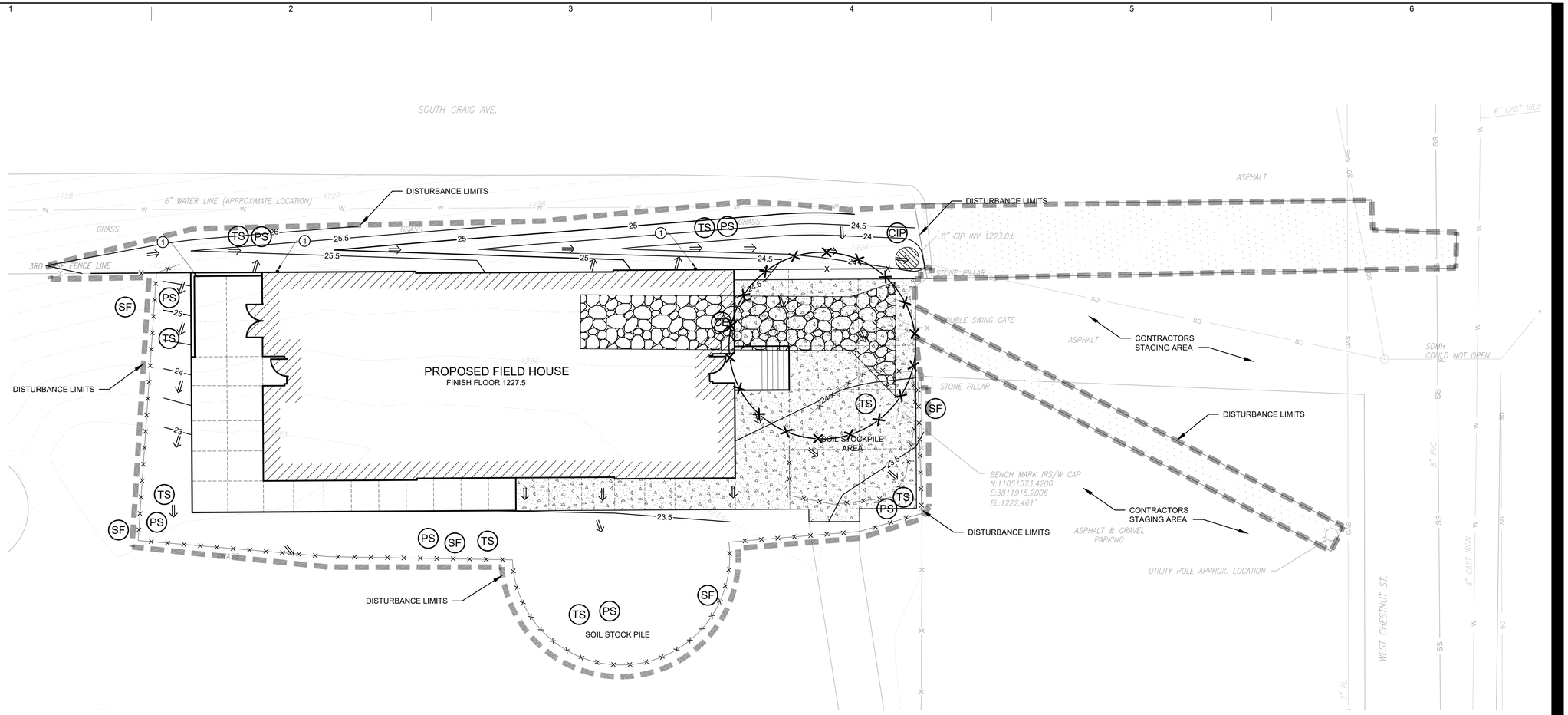
SHEET TITLE

FIELD HOUSE GRADING PLAN

SHEET NUMBER

CG-101

Last saved by: AYLESM(2023-04-28) Last Plotted: 2023-05-02
Filename: \\NA.AECOMNET.COM\LFS\AMER\ROA\OKE-USRNK1\DCS\PROJECTS\BDL\60699711900_CAD_GIS\910_CAD\20-SHEETS\C60699711-CG-101.DWG



EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION
THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A NEW FIELD HOUSE TO SUPPORT THE EXISTING ATHLETIC FACILITIES. THE EXISTING TWO SITES TOTALING 5.50± ACRES SITE CONTAINS CASEY FIELD AND BOODIE ALBERT STADIUM AND PARKING. THE SITE HAS A SHALLOW SLOPE WITH THE SITE DRAINING TOWARDS THE NORTHEAST. THE GRADING OPERATIONS INCLUDE THE REMOVAL OF ASPHALT, GRAVEL, EXISTING VEGETATION, AND SOIL. FILL MATERIAL WILL BE REQUIRED TO BE HAULED IN FROM OFF-SITE. THE CONTRACTOR SHALL SECURE OFF-SITE MATERIAL FROM A PERMITTED SITE OR SECURE A PERMIT FOR THE PROPOSED BORROW AREA. APPROXIMATELY 9,500 SF, 0.22 ACRES WILL BE DISTURBED AS A RESULT OF PROPOSED CONSTRUCTION.

EXISTING SITE CONDITIONS
WITHIN THE PROJECT AREA THE MAJORITY OF THE EXISTING GROUND COVER IS GRASS IN GOOD CONDITION WITH THE REMAINDER BEING ASPHALT. THE SITE IS HAS AN ELEVATION DIFFERENCE OF 2' -4 "IN THE VICINITY OF THE CONSTRUCTION AREA.

ADJACENT PROPERTY
THE PROJECT AREA IS BORDERED BY THE COVINGTON HIGH SCHOOL ACROSS S. CRAIG STREET TO THE NORTHEAST, COMMERCIAL PROPERTY ACROSS W. CHESTNUT STREET TO THE SOUTHEAST, INDUSTRIAL PROPERTY ACROSS THE CSX RAIL LINES TO THE SOUTHWEST, AND RESIDENTAIL PROPERTY ACROSS W. OAK STREET TO THE NORTHWEST.

OFF-SITE AREAS
THIS PROJECT WILL REQUIRE OFF-SITE BORROW ARES AND A DISPOSAL SITE. THE LOCATION OF ALL OFF-SITE BORROW AND DISPOSAL SITES ASSOCIATED WITH THIS CONSTRUCTION PROJECT SHALL BE PROVIDED TO CITY OF COVINGTON BUILDING DEPARTMENT BY THE CONTRACTOR FOR REVIEW AND APPROVAL. AN EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE AREAS.

SOILS
THE SOILS AS INDICATED FROM THE USDA AND NRCS SOIL SURVEY OF ALLEGHANY COUNTY CLASSIFY THE SOILS AS ZOAR-URBAN LAND COMPLEX, 3 TO 8 PERCENT SLOPES WITH HYDROLOGIC SOIL GROUP OF /D. TWO SOIL BORINGS WERE OBTAINED IN FEBRUARY 2023. THE BORINGS WERE TERMINATED AT 20 FEET. BOTH BORINGS INDICATED SUBSURFACE WATER WAS PRESENT. REFER TO THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.

CRITICAL EROSION AREAS
THERE ARE NO CRITICAL EROSION AREAS ON THE PROJECT SITE WITHIN THE CONSTRUCTION AREAS.

DRAINAGE PATTERNS
THE FIELD HOUSE IS PARTIALLY IN THE EMBANKMENT FOR THE ROADWAY. THE SITE DRAINS TOWARDS THE SOUTHEAST. THE RUNOFF FROM THE SITE FLOWS INTO THE JACKSON RIVER, ABOUT 800 FEET SOUTHEAST OF THE PROPOSED STRUCTURE.

EROSION AND SEDIMENT CONTROL MEASURES
UNLESS OTHERWISE STATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (1992 EDITION). IF DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL DEVICES ARE DEEMED NECESSARY, THEY WILL BE INSTALLED AS DIRECTED BY THE SITE DESIGNER OR ROANOKE CITY PERSONNEL AT NO ADDITIONAL COST TO THE OWNER.

PERMANENT STABILIZATION
ALL DENUDED AREAS WILL RECEIVE CONCRETE OR VEGETATION. THE PLANS SPECIFY THE TYPES OF TEMPORARY AND PERMANENT SEEDING.

STORMWATER RUNOFF CONSIDERATIONS
THIS PROJECT DISTURBS LESS THAN 10,000 SF AND THEREFOR NO ATTENUATION OF THE PEAK RUNOFF IS REQUIRED OR PROVIDED.

MANAGEMENT STRATEGIES
1. CONSTRUCTION SHOULD BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE
2. EROSION AND SEDIMENT CONTROL DEVICES WILL BE INSTALLED AS A FIRST STEP OF CONSTRUCTION
3. THE GRADING CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES. INSPECTIONS ARE TO BE MADE PERIODICALLY AND AFTER EVERY ERODIBLE RAINFALL.
4. THE GRADING INSPECTION PERSONNEL WILL MAKE REPAIRS TO DAMAGED OR DEFICIENT CONTROL MEASURES IMMEDIATELY UPON DISCOVERY OF DAMAGE OR UPON NOTIFICATION OF THE DEFICIENCY.

STRUCTURAL PRACTICES
TEMPORARY CONSTRUCTION ENTRANCE 3.02- A CONSTRUCTION ENTRANCE WILL BE INSTALLED OFF OF THE EXISTING DRIVEWAY TO ACCESS THE SITE AND TO PREVENT SOIL FROM LEAVING THE SITE

SILT FENCE 3.05 - SILT FENCE SHALL BE PLACED AROUND THE PERIMETER OF THE SITE AND WITHIN AS SHOWN ON THE E&S SHEET

STORM DRAIN PROTECTION 3.07 - ALL STORM DRAIN INLETS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AS SHOWN ON THE E&S SHEET

VEGETATIVE PRACTICES
TEMPORARY SEEDING 3.31 - TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. SUCH AREAS MAY INCLUDE DENUDED AREAS AND SOIL STOCKPILES

PERMANENT SEEDING 3.32 - PERMANENT SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN A YEAR. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IN THE OPINION OF THE LOCAL PROGRAM ADMINISTRATOR OR THEIR DESIGNATED AGENT, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
MULCHING 3.35 - MULCHING SHALL BE USED IN CONJUNCTION WITH PERMANENT SEEDING AS INDICATED WITHIN THE SEEDING SCHEDULE.

INSPECTION AND MAINTENANCE REQUIREMENTS
INSPECTIONS SHALL BE CONDUCTED AT A FREQUENCY OF AT LEAST ONCE EVERY FOUR BUSINESS DAYS, OR AT LEAST ONCE EVERY FIVE BUSINESS DAYS AND NO LATER THAN 24 HOURS FOLLOWING A MEASURABLE STORM EVENT. IN THE EVENT THAT A MEASURABLE STORM EVENT OCCURS WHEN THERE ARE MORE THAN 24 HOURS BETWEEN BUSINESS DAYS, THE INSPECTION SHALL BE CONDUCTED ON THE NEXT BUSINESS DAY. ALL FAILING OR DAMAGED ESC MEASURES SHALL BE REPAIRED OR REPLACED AS SOON AS THEY ARE IDENTIFIED.

CONSTRUCTION ENTRANCE - SHALL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF ADDITIONAL STONE, OR THE WASHING AND REWORKING OF EXISTING STONE.

SILT FENCE - THE SEDIMENT TO BE REMOVED WHEN HEIGHT OF SEDIMENT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE. ALL DECOMPOSED FABRIC TO BE REPLACED IMMEDIATELY.

TEMPORARY SEEDING - AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT RILL EROSION, WILL BE RE-SEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED. PERMANENT SEEDING: WHEN IT IS CLEAR THAT PLANTS HAVE NOT GERMINATED ON AN AREA, OR HAVE DIED, THESE AREAS MUST BE RE-SEEDED IMMEDIATELY TO PREVENT EROSION DAMAGE.

MULCHING - ALL MULCHES SHALL BE INSPECTED PERIODICALLY TO CHECK FOR EROSION. WHERE EROSION IS OBSERVED IN MULCHED AREAS, ADDITIONAL MULCH SHALL BE APPLIED. INSPECTIONS ARE TO TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED.

REMOVAL OF CONTROL MEASURES
ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE REMOVED WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE DIRECTED BY THE LOCAL PROGRAM ADMINISTRATOR.

STORMWATER POLLUTION PREVENTION PLAN (SWPP)
NO SWPP PLAN IS REQUIRED OR PROVIDED.E

GENERAL EROSION & SEDIMENT CONTROL NOTES
FROM VESCH THIRD EDITION 1992

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

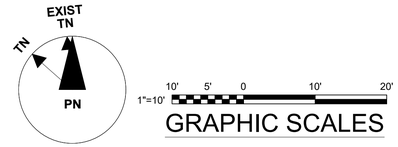
ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

SHEET KEYNOTES:

1. CONNECT 4"Ø CORRUGATED PIPE TO DOWNSPOUT AND DRAIN TO THE BOTTOM OF DITCH UNTIL SITE STABILIZED

GENERAL NOTES THIS SHEET:

A. SEE SHEET C-001 FOR CIVIL NOTES AND LEGEND
B. SEE SHEET CE-101 FOR EXISTING LAYOUT
C. SEE SHEET CD-101 FOR DEMOLITION PLAN
D. SEE SHEET CS-101 FOR LAYOUT PLAN
E. SEE SHEET CG-101 FOR GRADING PLAN
F. SEE SHEET CU-101 FOR UTILITY PLAN
G. SEE SHEET C-501 FOR DETAILS



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FIELD HOUSE
EROSION AND SEDIMENT CONTROL PLAN

SHEET NUMBER

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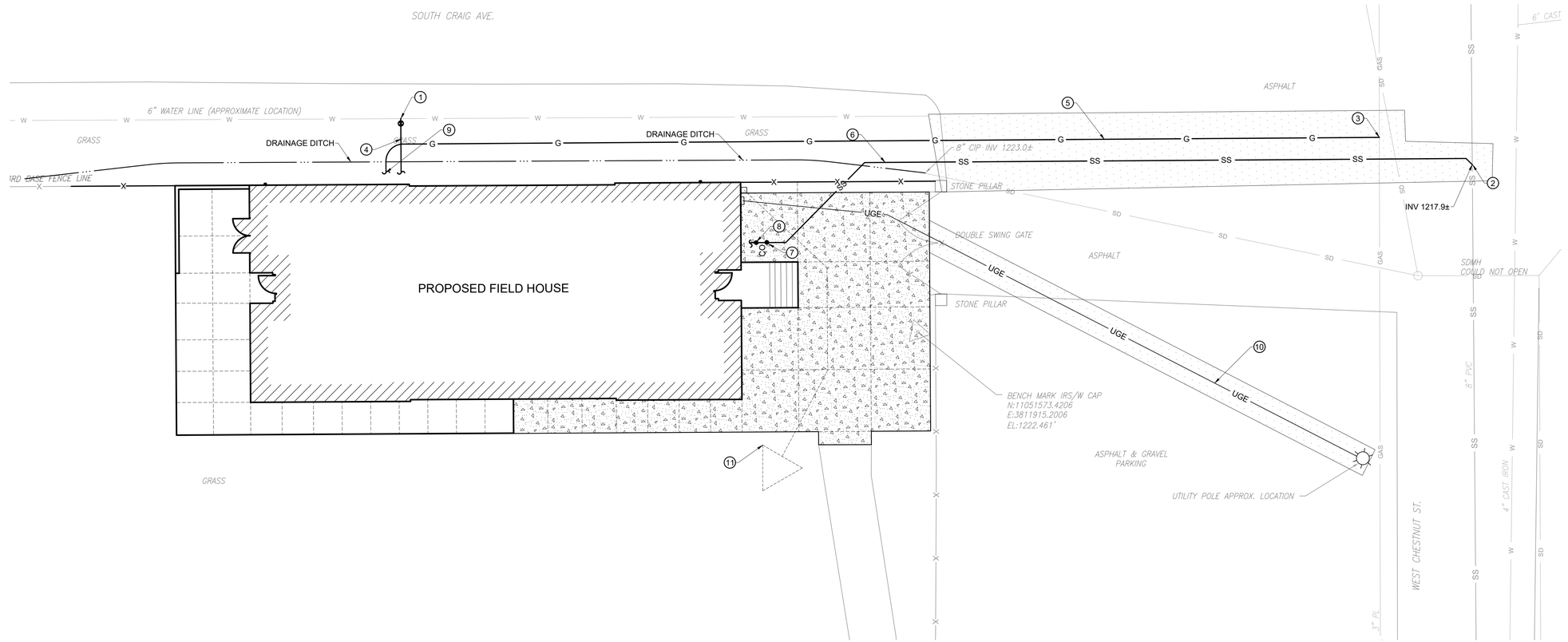
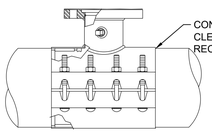


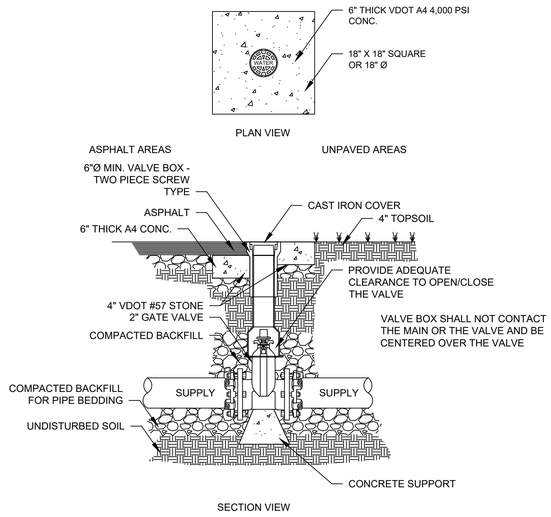


NOTES:

1. TAPPING SLEEVE SHALL BE POWERSEAL MODEL 3490 TYPE 304 STAINLESS STEEL WITH CARBON STEEL FLANGE, ROMAC'S MODEL SST III, FORD MODEL FTSS WITH CARBON STEEL FLANGE OR APPROVED EQUIVALENT. SLEEVE SHALL BE RATED AT 100 PSI OVER WORKING PRESSURE AND MUST HAVE A TEST PLUG.
2. TAPPING VALVE SHALL BE AVK RESILIENT SEATED GATE VALVE SERIES 25 MJFL, MUELLER T-2360 RESILIENT WEDGE TAPPING VALVE WITH MJFL, OR AFC SERIES 2500 RESILIENT WEDGE TAPPING VALVE WITH MJFL. VALVE SHALL BE RATED AT 250 PSI.
3. TAPPING SLEEVE AND VALVE SHALL BE FULL PORT TO ACCEPT FULL SIZE SHELL CUTTER.
4. STEEL FLANGE SHALL MEET AWWA C207.
5. SIZE-ON-SIZE TAPPING NOT ALLOWED UNLESS APPROVED BY PARTICIPATING UTILITY.

TAPPING SLEEVE AND VALVE

NO SCALE



NOTE:

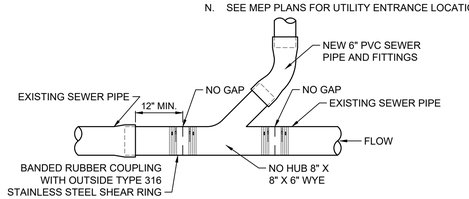
1. ALL COMPONENTS SHALL MEET CURRENT H-20 LOADING REQUIREMENTS
2. THE ENTIRE VALVE BOX ASSEMBLY AND COVER SHALL BE CAST FROM CLASS 35 GRAY IRON AND MANUFACTURED BY THE SAME COMPANY.
3. THE TWO-PIECE SCREW TYPE VALVE ASSEMBLY AND COVER SHALL BE CAST FROM CLASS 35 GRAY IRON AND HAVE A CLEAR OPENING OF 6" MINIMUM.
4. THE BOX COVER SHALL BE A DROP-IN TYPE WITH PICK HOLES AND HAVE "WATER" WITH 1" LETTERS CAST INTO THE LID. IT SHALL WEIGH A MINIMUM OF 26 POUNDS.
5. COMPACT THE SOIL SURROUNDING THE VALVE BOX AS NOTED IN THE SITE WORK NOTES.
6. CONCRETE THRUST BLOCKS/SUPPORT SHALL BE VDOT A3, 3,000 PSI CONCRETE.
7. ELIMINATE THE CONCRETE SURROUND IN AREAS PAVED WITH CONCRETE (PCC) AND PAVE UP TO THE VALVE.
8. PRECAST CONCRETE ENCASEMENTS ARE ALLOWED OUTSIDE OF PAVED AREAS

GATE VALVE AND VALVE BOX

NO SCALE

GENERAL NOTES THIS SHEET:

A. COORDINATE WATER TAP WITH THE CITY OF COVINGTON WATER DEPARTMENT- CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND SHALL PAY ALL COSTS ASSOCIATED WITH CONNECTION.
B. COORDINATE NATURAL GAS CONNECTION WITH COLUMBIA GAS
C. CONDUIT AND WIRE FROM UTILITY POLE TO METER BASE ARE PROVIDED BY DOMINION POWER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT PATH WITH DOMINION POWER PRIOR TO TRENCHING AND INSTALLATION. CONDUIT SHALL HAVE 2.0' MINIMUM COVER. SEE DETAILS SHEET E-502 FOR MORE INFORMATION.
D. INSTALL BACKWATER VALVE WITH 6" RISER PIPE AND COUNTERSUNK CLEANOUT PLUG FLUSH WITH CONCRETE SLAB
E. SANITARY SEWER LINE SHALL HAVE 3.0' MINIMUM COVER AND HAVE A 1.04% MIN. SLOPE- CONTRACTOR TO VERIFY CONNECTION ELEVATION.
F. WATER LINE SHALL HAVE 3.0' MINIMUM COVER
G. SEE SHEET C-001 FOR CIVIL NOTES AND LEGEND
H. SEE SHEET CE-101 FOR EXISTING LAYOUT
I. SEE SHEET CD-101 FOR DEMOLITION PLAN
J. SEE SHEET CS-101 FOR SITE LAYOUT PLAN
K. SEE SHEET CG-101 FOR GRADING PLAN
L. SEE SHEET CC-101 FOR EROSION AND SEDIMENT CONTROL PLAN
M. SEE SHEET C-501 FOR DETAILS
N. SEE MEP PLANS FOR UTILITY ENTRANCE LOCATIONS AND DETAILS



PVC WYE FITTING

NOTES:

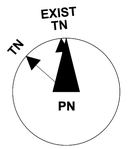
1. CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING PIPE AT CONNECTION POINT
2. ALL DEBRIS SHALL BE KEPT OUT OF THE SEWER. THE PIPE REACH CUT INTO SHALL BE CLEANED AND BALLED, IF NECESSARY, AS DIRECTED BY THE UTILITY OWNER.
3. PROVIDE SEWAGE PUMP AROUND AS NEEDED AND COORDINATE WITH THE CITY OF COVINGTON.
4. ALL DAMAGED PIPE SHALL BE REPLACED BY CONTRACTOR.
5. EXISTING PIPE AND NEW WYE FITTING SHALL BE FLUSH AND WITHOUT GAPS
6. DO NOT INSTALL WYE CLOSER THAN 12" FROM PIPE JOINT
7. CLAMPS SHALL BE 300 SERIES STAINLESS STEEL

CUT-IN WYE ON EXISTING SEWER PIPE

NO SCALE

SHEET KEYNOTES:

1. TAPPING SLEEVE AND 3" TAPPING VALVE - CONNECT TO EXISTING WATER LINE -SEE DETAILS THIS SHEET
2. CONNECT TO EXISTING 8" SANITARY SEWER WITH 8" X 6" CUT IN WYE - SEE DETAIL BELOW - VERIFY ELEVATION
3. CONNECT TO EXISTING GAS SERVICE LINE
4. CONSTRUCT 2.5" WATER SERVICE LINE - SEE DETAILS THIS SHEET
5. CONSTRUCT GAS SERVICE LINE
6. CONSTRUCT 6" SANITARY SEWER SERVICE LINE
7. INSTALL 6" CLEANOUT
8. 6" RECTORSEAL CLEAN CHECK EXTENDABLE BACKWATER VALVE AND RISER, OR ENGINEER APPROVED EQUAL
9. CONNECT TO GAS AT BUILDING
10. ELECTRICAL SERVICE- SEE GENERAL NOTE C THIS SHEET
11. APPROXIMATE LOCATION OF TEST WELL - SEE DETAIL SHEET E-501



GRAPHIC SCALES

READY FOR CONSTRUCTION

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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Covington, VA 24426

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REGISTRATION

COMMONWEALTH OF VIRGINIA
05/05/2023
MARK JOHN AYLES
Lic. No. 034160
PROFESSIONAL ENGINEER

SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

SHEET TITLE

FIELD HOUSE
SITE UTILITY PLAN

SHEET NUMBER

CU-101

Last saved by: AYLESM(2023-04-27) Last Plotted: 2023-05-02
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CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

1. CHAIN-LINK FENCES.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT

1.3 INFORMATIONAL SUBMITTALS

A. PRODUCT CERTIFICATES

B. PRODUCT TEST REPORTS

C. SAMPLE WARRANTY

1.4 WARRANTY

A. SPECIAL WARRANTY: MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF CHAIN-LINK FENCE THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.

1. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

a. MINIMUM POST SIZE: DETERMINE ACCORDING TO ASTM F1043 FOR POST SPACING NOT TO EXCEED 8 FEET OR MATCH EXISTING. MATERIAL [GROUP IA, ASTM F1043, SCHEDULE 40 STEEL PIPE

2.2 CHAIN-LINK FENCE FABRIC

A. GENERAL: PROVIDE FABRIC IN ONE-PIECE HEIGHTS MEASURED BETWEEN TOP AND BOTTOM OF OUTER EDGE OF SELVAGE KNUCKLE OR TWIST ACCORDING TO "CLFMI PRODUCT MANUAL" AND REQUIREMENTS INDICATED BELOW:

1. FABRIC HEIGHT: 72 INCHES

2. STEEL WIRE FOR FABRIC: 9 GAUGE (0.143 INCH)

a. MESH SIZE: 2 INCHES

b. ZINC-COATED FABRIC: ASTM A392, TYPE II, CLASS 2, WITH ZINC COATING APPLIED BEFORE WEAVING.

c. COAT SELVAGE ENDS OF METALLIC-COATED FABRIC BEFORE THE WEAVING PROCESS WITH MANUFACTURER'S STANDARD CLEAR PROTECTIVE COATING.

d. SELVAGE: MATCH EXISTING

2.3 FENCE FRAMEWORK

A. POSTS AND RAILS ASTM F1043 FOR FRAMEWORK, INCLUDING RAILS, BRACES, AND LINE; TERMINAL; AND CORNER POSTS. PROVIDE MEMBERS WITH MINIMUM DIMENSIONS AND WALL THICKNESS ACCORDING TO ASTM F1043 OR ASTM F1083 BASED ON THE FOLLOWING:

1. FENCE HEIGHT: 72 INCHES

2. HEAVY-INDUSTRIAL-STRENGTH MATERIAL: GROUP IA, ROUND STEEL PIPE, SCHEDULE 40

a. LINE POST: 2.375 INCHES IN DIAMETER

b. END, CORNER, AND PULL POSTS: 2.875 INCHES IN DIAMETER

c. RAIL, TOP: 1.625 INCHES IN DIAMETER, OR MATCH EXISTING

3. HORIZONTAL FRAMEWORK MEMBERS: TOP RAIL ACCORDING TO ASTM F1043.

4. METALLIC COATING FOR STEEL FRAMEWORK:

a. TYPE A ZINC COATING.

2.4 TENSION WIRE

A. METALLIC-COATED STEEL WIRE: 0.143-INCH DIAMETER, MARCELLED TENSION WIRE ACCORDING TO ASTM A817 OR ASTM A824, WITH THE FOLLOWING METALLIC COATING:

1. TYPE II: ZINC COATED (GALVANIZED) WITH MINIMUM COATING WEIGHT MATCHING CHAIN-LINK FABRIC COATING WEIGHT.

2.5 FITTINGS

A. PROVIDE FITTINGS ACCORDING TO ASTM F626.

B. POST TOPS: PRESSED STEEL, CAST IRON OR ALUMINUM], WITH SLOTS THAT ACCOMMODATE TOP RAIL

C. FINISH:

1. METALLIC COATING FOR PRESSED STEEL OR CAST IRON: NOT LESS THAN 1.2 OZ./SQ. FT. OF ZINC.

2.6 GROUT AND ANCHORING CEMENT

A. NONSHRINK, NONMETALLIC GROUT: FACTORY-PACKAGED, NONSTAINING, NONCORROSIVE, NONGASEOUS GROUT COMPLYING WITH ASTM C1107/C1107M. PROVIDE GROUT, RECOMMENDED IN WRITING BY MANUFACTURER, FOR EXTERIOR APPLICATIONS.

B. ANCHORING CEMENT: FACTORY-PACKAGED, NONSHRINK, NONSTAINING, HYDRAULIC-CONTROLLED EXPANSION CEMENT FORMULATION FOR MIXING WITH WATER AT PROJECT SITE TO CREATE POURABLE ANCHORING, PATCHING, AND GROUTING COMPOUND. PROVIDE FORMULATION THAT IS RESISTANT TO EROSION FROM WATER EXPOSURE WITHOUT NEEDING PROTECTION BY A SEALER OR WATERPROOF COATING, AND THAT IS RECOMMENDED IN WRITING BY MANUFACTURER FOR EXTERIOR APPLICATIONS.

PART 3 - EXECUTION

3.1 EXAMINATION

A. DO NOT BEGIN INSTALLATION BEFORE FINAL GRADING IS COMPLETED UNLESS OTHERWISE PERMITTED BY ARCHITECT.

3.2 PREPARATION

A. STAKE LOCATIONS OF FENCE LINES, GATES, AND TERMINAL POSTS. INDICATE LOCATIONS OF UTILITIES, LAWN SPRINKLER SYSTEM, UNDERGROUND STRUCTURES, BENCHMARKS, AND PROPERTY MONUMENTS.

3.3 CHAIN-LINK FENCE INSTALLATION

A. INSTALL CHAIN-LINK FENCING ACCORDING TO ASTM F567 AND MORE STRINGENT REQUIREMENTS SPECIFIED.

B. POST EXCAVATION: DRILL OR HAND-EXCAVATE HOLES FOR POSTS TO DIAMETERS AND SPACINGS INDICATED, IN FIRM, UNDISTURBED SOIL.

C. POST SETTING: SET POSTS IN CONCRETE FOR TERMINAL POSTS AND LINE POSTS IN DISTURBED SOIL AND BY MECHANICALLY DRIVING INTO SOIL AT INDICATED SPACING INTO FIRM, UNDISTURBED SOIL FOR LINE POSTS.

1. VERIFY THAT POSTS ARE SET PLUMB, ALIGNED, AND AT CORRECT HEIGHT AND SPACING, AND HOLD IN POSITION DURING SETTING WITH CONCRETE OR MECHANICAL DEVICES.

2. CONCRETE FILL: PLACE CONCRETE AROUND POSTS TO DIMENSIONS INDICATED AND VIBRATE OR TAMP FOR CONSOLIDATION. PROTECT ABOVEGROUND PORTION OF POSTS FROM CONCRETE SPLATTER.

a. CONCEALED CONCRETE: PLACE TOP OF CONCRETE 2 INCHES BELOW GRADE TO ALLOW COVERING WITH SURFACE MATERIAL.

b. POSTS SET IN CONCRETE: POSTS SHALL BE SET TO A DEPTH OF 36 INCHES.

3. MECHANICALLY DRIVEN POSTS: DRIVE INTO SOIL TO DEPTH OF 30 INCHES. PROTECT POST TOP TO PREVENT DISTORTION.

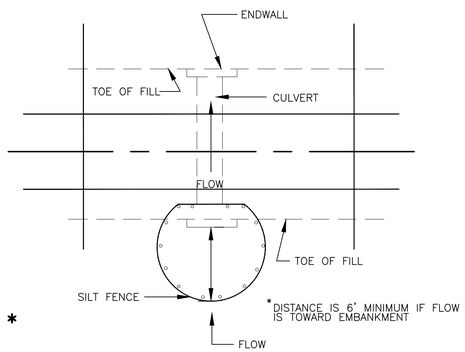
D. TERMINAL POSTS: INSTALL TERMINAL END AND TERMINAL PULL POSTS ACCORDING TO ASTM F567

E. LINE POSTS: SPACE LINE POSTS UNIFORMLY AT 96 INCHES O.C. OR MATCH EXISTING

F. TENSION WIRE: INSTALL ACCORDING TO ASTM F567, MAINTAINING PLUMB POSITION AND ALIGNMENT OF FENCE POSTS. PULL WIRE TAUT, WITHOUT SAGS. FASTEN FABRIC TO TENSION WIRE WITH 0.120-INCH DIAMETER HOG RINGS OF SAME MATERIAL AND FINISH AS FABRIC WIRE, SPACED A MAXIMUM OF 24 INCHES O.C. INSTALL TENSION WIRE IN LOCATIONS INDICATED BEFORE STRETCHING FABRIC. PROVIDE HORIZONTAL TENSION WIRE AT THE FOLLOWING LOCATIONS:

1. EXTENDED ALONG BOTTOM OF FENCE FABRIC.

G. CHAIN-LINK FABRIC: APPLY FABRIC TO OUTSIDE OF ENCLOSING FRAMEWORK. LEAVE 2-INCH BOTTOM CLEARANCE BETWEEN FINISH GRADE OR SURFACE AND BOTTOM SELVAGE UNLESS OTHERWISE INDICATED. PULL FABRIC TAUT AND TIE TO POSTS, RAILS, AND TENSION WIRES. ANCHOR TO FRAMEWORK SO FABRIC REMAINS UNDER TENSION AFTER PULLING FORCE IS RELEASED.



SOURCE: ADAPTED from VDOT Standard Sheets and Va. DSWC PLATE. 3.08–1

OPTIONAL STONE COMBINATION
SILT FENCE CULVERT INLET PROTECTION
NO SCALE

TABLE 3.31-B
(Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS
QUICK REFERENCE FOR ALL REGIONS

SEED		
APPLICATION DATES	**SPECIES**	**APPLICATION RATES**
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Iolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (Iolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME

- Apply 10-10-10 **fertilizer** at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)
- Apply **Pulverized Agricultural Limestone** at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:
1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
2 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

VDEQ TEMPORARY SEEDING
NO SCALE

TABLE 3.32-D
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

SEED[1]		
LAND USE	**SPECIES**	**APPLICATION PER ACRE**
Minimum Care Lawn (Commercial or Residential)	Tall Fescue[1] Perennial Ryegrass Kentucky Bluegrass[1]	95-100% 0-5% 0-5% TOTAL: 175-200 lbs.
High-Maintenance Lawn	Tall Fescue[1]	TOTAL: 200-250 lbs.
General Slope (3:1 or less)	Tall Fescue[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2]	128 lbs 2 lbs 20 lbs TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2] Crownvetch[3]	106 lbs 2 lbs 20 lbs 20 lbs TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4854 or at http://sudan.cses.vt.edu/html/TurfNet/publications/publications2.html

2 - Use seasonal nurse crop in accordance with seeding dates as stated below:

February 16th - April	Annual Rye
May 1st - August 15th	Foxtail Millet
August 16th - October	Annual Rye
November - February 15th	Winter Rye

3 - Substitute Sericea lespedeza for Crownvetch east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled Sericea). If Flatpea is used, increase rate to 30 lbs./acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 -40 .

FERTILIZER & LIME

- Apply 10-20-10 **fertilizer** at a rate of **600** lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply **Pulverized Agricultural Limestone** at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

VDEQ PERMANENT SEEDING
NO SCALE

READY FOR CONSTRUCTION

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PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

CASEY FIELD & BOODIE ALBERT STADIUM
700 West Oak St
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REGISTRATION

COMMONWEALTH OF VIRGINIA
05/05/2023
MARK JOHN AYLES
Mark J. Ayles
Lic. No. 034160
PROFESSIONAL ENGINEER

SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

SHEET TITLE

SITE DETAILS

SHEET NUMBER

CS-501

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GENERAL NOTES:

LOAD CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, 2018 EDITION (INTERNATIONAL BUILDING CODE, 2018 EDITION).

2. DESIGN LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

ROOF	20 PSF

3. DESIGN SNOW LOAD:

GROUND SNOW LOAD,	Pg	25 PSF
FLAT ROOF SNOW LOAD,	Pf	20 PSF
EXPOSURE FACTOR,	Ce	0.9
ROOF THERMAL FACTOR,	Ct	1.0
SLOPE FACTOR,	Cs	0.93
IMPORTANCE FACTOR,	Is	1.0

4. DESIGN WIND LOADS

BASIC WIND SPEED,	Vult	107 MPH (THREE SECOND GUST)
ALLOWABLE WIND SPEED,	Vasd	82.9 MPH (THREE SECOND GUST)
RISK CATEGORY,	II	
EXPOSURE	C	
INTERNAL PRESSURE COEFF	GCpi	+/-0.18

5. COMPONENTS AND CLADDING WIND LOADS

WALLS

ZONE	EFFECTIVE WIND AREA (SQ FT)	ULTIMATE PRESSURE (PSF)
4	10	+22.8/-24.7
4	20	+21.8/-23.7
4	50	+20.5/-22.4
4	100	+19.5/-21.4
5	10	+22.8/-30.5
5	20	+21.8/-28.4
5	50	+20.5/-25.8
5	100	+19.5/-23.7

ROOF

ZONE	EFFECTIVE WIND AREA (SQ FT)	ULTIMATE PRESSURE (PSF)
1	10	+16/-27.1
1	20	+16/-27.1
1	50	+16/-27.1
1	100	+16/-27.1
2	10	+16/-31.3
2	20	+16/-30.7
2	50	+16/-29.8
2	100	+16/-29.2
2'	10	+16/-37.6
2'	20	+16/-37.0
2'	50	+16/-36.2
2'	100	+16/-35.5
3	10	+16/-41.9
3	20	+16/-38.1
3	50	+16/-33.0
3	100	+16/-29.2
3'	10	+16/-58.8
3'	20	+16/-52.4
3'	50	+16/-44.0
3'	100	+16/-37.6

CORNER AND EDGE ZONES ARE 4 FEET WIDE.

6. DESIGN SEISMIC LOADS ARE BASED ON THE FOLLOWING DATA:

MAPPED SHORT PERIOD SPECTRAL RESPONSE ACCELERATION, Ss	0.25g
MAPPED 1-SEC PERIOD SPECTRAL RESPONSE ACCELERATION, S1	0.073g
SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION, Sds	0.267
1-SEC PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION, Sd1	0.117
RISK CATEGORY	II
SEISMIC DESIGN CATEGORY	B
SITE CLASS	D
BASIC SEISMIC-FORCE-RESISTING SYSTEM	INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR, R	3.5
DEFLECTION AMPLIFICATION FACTOR, Cd	2.25
IMPORTANCE FACTOR, Ie	1.0
SEISMIC RESPONSE COEFFICIENT, Cs	0.076
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR	Cs x W =21 KIPS

COORDINATION

1. DO NOT SCALE DRAWINGS. CHANGES AFFECTING THE LAYOUT SHOWN MUST BE SPECIFIC AND CLEARLY CONVEYED TO THE OWNER'S REPRESENTATIVE IN WRITTEN FORM AS A CHANGE FOR INCLUSION INTO THESE PLANS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO CONSTRUCTION. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY. SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS.

2. SHOP DRAWINGS SHALL BE PREPARED BY THE FABRICATOR. COPYING OF THESE CONSTRUCTION DOCUMENTS FOR USE AS SHOP DRAWINGS WILL NOT BE PERMITTED.

3. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY.

4. ALL TEMPORARY SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, PROCESS OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE PERTINENT TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE APPROPRIATE CONTRACTOR.

FOUNDATIONS

1. FOUNDATION DESIGN IS BASED ON SOIL REPORT NO. 62A0212 PREPARED BY FROEHLING & ROBERTSON, INC. DATED FEB. 03, 2023. THE CONTRACTOR SHALL THOROUGHLY REVIEW AND UNDERSTAND ALL PERTINENT CONSTRUCTION ASPECTS OF THIS REPORT BEFORE BEGINNING ANY WORK.

2. DESIGN OF FOOTINGS AND FOUNDATION WALLS IS BASED ON THE FOLLOWING CRITERIA:
   1. MAXIMUM ALLOWABLE BEARING PRESSURE = 1500 PSF
   2. ACTIVE EQUIVALENT FLUID PRESSURE FOR RETAINING = 40 PCF
   3. PASSIVE EQUIVALENT FLUID PRESSURE FOR RETAINING = 250 PCF

3. FX.X INDICATES FOOTING TYPES. SEE FOOTING SCHEDULE FOR SIZE AND REINFORCING. XXX.XX INDICATES ELEVATION OF TOP OF FOOTING. FOOTING ELEVATIONS SHOWN REPRESENT THE MINIMUM DEPTH TO WHICH FOOTINGS SHALL BE PLACED. ALL UNSUITABLE FOUNDATION MATERIAL SHALL BE REMOVED. FOOTINGS MAY BE LOWERED AS REQUIRED TO OBTAIN SUITABLE BEARING ON UNDISTURBED SOIL OR UNSUITABLE MATERIAL SHALL BE REPLACED WITH STRUCTURAL FILL. FOOTING THICKNESS SHALL BE MAINTAINED. WHERE FOOTINGS ARE LOWERED MORE THAN 1 FOOT, NOTIFY THE ENGINEER OF RECORD. FOOTINGS RESTING ON UNDISTURBED SOIL SHALL HAVE A MINIMUM BEARING CAPACITY OF 1500 PSF UNLESS OTHERWISE INDICATED.

4. A GEOTECHNICAL ENGINEER SHALL OBSERVE THE OPEN EXCAVATION TO DETERMINE THAT THE SOIL TYPE AND CONDITIONS ARE CONSISTENT WITH DESIGN CRITERIA OF THE SOIL REPORT. IF THE SOIL PROPERTIES ARE FOUND TO BE DIFFERENT FROM THIS CRITERIA THE OWNER'S REPRESENTATIVE SHALL BE PROMPTLY NOTIFIED SO THAT THE FOUNDATION DESIGN MAY BE REVIEWED.

5. NO FOUNDATION CONCRETE SHALL BE INSTALLED UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. FOOTINGS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. WHERE FOOTINGS ARE REQUIRED TO BE LOWERED MORE THAN 1 FOOT, NOTIFY THE ENGINEER OF RECORD.

6. TO MINIMIZE WEATHERING, THE LAST 6 INCHES OF EXCAVATION FOR ALL FOOTINGS SHALL BE MADE IMMEDIATELY PRIOR TO PLACEMENT OF FOOTINGS.

7. WHERE ROCK OUTCROPPINGS ARE ENCOUNTERED IN ANY FOOTING EXCAVATION, UNDERCUT TO A DEPTH OF NOT LESS THAN 6 INCHES BELOW ELEVATION OF BOTTOM OF FOOTING AND BACKFILL WITH THOROUGHLY COMPACTED #10 FINES.

CONCRETE

1. CONCRETE STRENGTH:
   1. ALL CONCRETE NOT OTHERWISE SPECIFIED f'c = 4000 psi
   2. FOOTINGS f'c = 4000 psi

2. REINFORCING BARS
   ASTM A 615 GRADE 60, DEFORMED Fy = 60 KSI

3. REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI MNL-66(20). DEVELOPMENT AND SPLICE LENGTHS ARE IN TENSION UNLESS OTHERWISE INDICATED. TENSION LAP SPLICES SHALL BE AS TABULATED IN THE SPLICE LENGTH TABLE BELOW. UNLESS OTHERWISE INDICATED.

f'c (psi)	BAR TYPE	#3	#4	#5	#6	#7	#8	#9	#10	#11
4000	TOP BARS	25	35	41	49	71	81	91	101	111
4000	OTHER BARS	19	25	31	37	54	62	70	78	85

5. CONTINUOUS REINFORCING IN WALLS AND SLABS MAY BE SPLICED, AS REQUIRED, PROVIDING BARS ARE OF THE LONGEST PRACTICABLE LENGTH AND SPLICES ARE SHOWN ON REINFORCING SHOP DRAWINGS. WHEREVER POSSIBLE, SPLICES SHALL BE STAGGERED. FIELD CUTTING OF REINFORCEMENT WILL NOT BE PERMITTED.

6. UNLESS OTHERWISE SHOWN, BARS AT WALL AND CONTINUOUS FOOTING CORNERS AND INTERSECTIONS SHALL BE DETAILED AS SHOWN IN SECTION 2 OF ACI MNL-66(20) FOR DOUBLE LAYER HORIZONTAL WALL REINFORCEMENT AT CORNERS AND INTERSECTIONS. INTERSECTIONS AND CORNERS SHALL BE DETAILED WITHOUT DIAGONAL BARS.

7. PROVIDE CONCRETE COVER FOR REINFORCING AS FOLLOWS, U.N.O.:

CAST AGAINST EARTH	3"
EXPOSED TO EARTH OR WEATHER	
#5 AND SMALLER BARS AND WWR	1-1/2"
#6 AND LARGER BARS	2"
NOT EXPOSED TO EARTH OR WEATHER	
SLABS AND WALLS:	
#11 AND SMALLER AND WWR	3/4"
#14 AND LARGER	1-1/2"
BEAMS AND COLUMNS	1-1/2"

8. PROVIDE DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED FOR ALL STRUCTURAL ELEMENTS, UNLESS OTHERWISE INDICATED.

9. MAJOR CONSTRUCTION JOINTS ARE SHOWN ON THE DRAWINGS. INTERMEDIATE JOINTS IN WALLS, SLABS, AND FLOOR FRAMING ARE NOT SHOWN. CONSTRUCTION JOINTS MAY BE ADDED, OMITTED OR RELOCATED IF PROPERLY DETAILED ON SHOP DRAWINGS AND APPROVED BY THE OWNER'S REPRESENTATIVE.

10. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF OPENINGS AND SLEEVES IN CONCRETE WALLS AND SUPPORTED FLOORS. SPREAD REINFORCEMENT AT OPENINGS AND SLEEVES UNLESS OTHERWISE SHOWN. DO NOT CUT REINFORCEMENT. SEE TYPICAL REINFORCEMENT DETAILS FOR OPENINGS IN SLABS AND WALLS FOR ADDITIONAL REQUIREMENTS.

11. PLACING OF REINFORCEMENT: PROVIDE CHAIRS, BOLSTERS, ADDITIONAL REINFORCEMENT, AND ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITION SHOWN ON DRAWINGS. SUPPORT OF REINFORCEMENT ON FORM TIES, WOOD, BRICK, BRICKBAT OR OTHER UNACCEPTABLE MATERIAL, WILL NOT BE PERMITTED.

12. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR SIZE AND LOCATION OF ALL EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, OPENINGS, ETC. REQUIRED BY OTHER TRADES. RECONCILE THEIR EXACT SIZES AND LOCATIONS BEFORE PROCEEDING WITH THE WORK. ALL ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. SECURE THE APPROVAL OF THE OWNER'S REPRESENTATIVE PRIOR TO PLACING OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

13. REINFORCE FLOOR SLABS ON GRADE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE, UNLESS OTHERWISE NOTED. PLACE REINFORCEMENT 2 INCHES BELOW TOP OF SLAB UNLESS OTHERWISE NOTED.

SLAB THICKNESS	REINFORCEMENT
• 4"	6X6-W2.0XW2.0 WWF

14. IN SLABS-ON-GRADE, PROVIDE 2-#4X4'-0" DIAGONAL BARS IN THE MIDDLE OF THE SLAB AT EACH CORNER OF OPENINGS OVER 1'-0" SQUARE AND AT RE-ENTRANT CORNERS.

15. PROVIDE CONTROL JOINTS IN CAST-IN-PLACE CONCRETE SLABS-ON-GRADE AT 15 FEET O.C. MAX. LOCATE CONTROL JOINTS TO FORM APPROXIMATE SQUARE PANELS WITH THE LENGTH OF ONE SIDE NOT EXCEEDING THE ADJACENT SIDE BY A FACTOR OF 1.5. CONTROL JOINTS MAY BE CONTRACTION JOINTS, CONSTRUCTION JOINTS, OR EXPANSION JOINTS.

16. CONCRETE WALLS SHALL BE TEMPORARILY BRACED AGAINST EARTH PRESSURE AND OTHER FORCES UNTIL FLOOR SLABS ARE IN PLACE AND HAVE ATTAINED REQUIRED STRENGTHS.

17. PROVIDE CONTROL JOINTS IN CONCRETE FOUNDATION WALLS AT EQUAL INTERVALS NOT TO EXCEED 12 FEET.

18. PROVIDE WATERSTOPS IN ALL CONSTRUCTION JOINTS AT OR BELOW GRADE.

19. WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY SHALL BE LOCATED AT THE MID-SPAN OF BEAMS, SLABS AND WALLS AND SHALL BE SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.

20. CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES 3/4-INCH, UNO.

21. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHEN IT IS SAFE TO REMOVE FORMS AND/OR SHORING. FORMS AND SHORING MUST NOT BE REMOVED UNTIL THE CONCRETE IS STRONG ENOUGH TO CARRY ITS OWN WEIGHT AND ANY ANTICIPATED SUPERIMPOSED LOADS. WHEN FORMS ARE STRIPPED THERE MUST BE NO EXCESSIVE DEFLECTION, DISTORTION, DISCOLORATION, AND NO EVIDENCE OF DAMAGE TO THE CONCRETE.

STEEL

1. MATERIAL STRENGTH

WIDE FLANGE SHAPES ASTM A 992	Fy = 50 KSI
STRUCTURAL RECTANGULAR TUBING ASTM A 500 GRADE B -OR C	Fy = 46 KSI
ALL OTHER STRUCTURAL STEEL ASTM A 36	Fy = 36KSI

2. THE CENTERLINES OF ALL COLUMNS AND BEAMS SHALL BE LOCATED ON COLUMN LINES UNLESS OTHERWISE SHOWN.

3. BEAMS SHALL BE FABRICATED AND INSTALLED WITH THE NATURAL CAMBER UP.

4. BOLTS SHALL BE ¾ INCH DIAMETER, ASTM F3125, GRADE A325N, UNLESS OTHERWISE INDICATED.

5. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE. SWAGED ANCHOR BOLTS AND ANCHOR BOLTS WITH HOOKED END ANCHORAGE ARE NOT ALLOWED.

6. WELDING ELECTRODES SHALL CONFORM TO REQUIREMENTS SHOWN IN TABLE 5.4 OF AWS D1.1:2020, AND FILLER METAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 70 KSI, WHERE WELD SIZE IS NOT GIVEN WELD SIZE SHALL BE A MINIMUM IN ACCORDANCE WITH TABLE 7.7 OF AWS D1.1:2020.

7. WELDS INDICATED "CJP" SHALL BE COMPLETE JOINT PENETRATION GROOVE WELDS. FABRICATOR SHALL PRODUCE COMPLETE JOINT PENETRATION GROOVE WELDS WHICH CONFORM TO ALL AWS D1.1 QUALIFIED WELD REQUIREMENTS AND WHICH ARE APPLICABLE TO THE SPECIFIC CONDITIONS SHOWN.

MASONRY

1. MASONRY WORK SHALL CONFORM TO THE LATEST EDITION OF TMS 602.

2. MASONRY STRENGTH

1. MASONRY SYSTEM COMPRESSIVE STRENGTH	f'_m = 2000 PSI
2. MORTAR SHALL BE	TYPE S
3. GROUT COMPRESSIVE STRENGTH	2000 PSI

3. REINFORCING BARS IN MASONRY SHALL BE FULLY GROUTED FOR THEIR ENTIRE LENGTH AND SHALL BE LAP SPLICED 48 BAR DIAMETERS, UNO. VERTICAL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.

4. CMU WALLS SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED BY THE ROOF OR FLOOR.

ROUGH CARPENTRY (WOOD FRAMING)

1. ALL WOOD CONSTRUCTION SHALL CONFORM TO AWC NDS-2018 "NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION."

2. RATED PLYWOOD SHEATHING SHALL CONFORM TO APA STANDARD PS1. ROOF SHEATHING SHALL BE 1/2 INCH STRUCTURAL 1, EXPOSURE 1.

3. FASTEN PLYWOOD SHEATHING USING 16d COMMON NAILS @ 6" O.C. ALONG PERIMETER FRAMING AND AT ALL 2x TOP PLATES AND 12" O.C. AT INTERMEDIATE FRAMING MEMBERS. DO NOT PENETRATE THROUGH EXPOSED ROOF DECK.

4. WOOD BLOCKING AND PLATES IN CONTACT WITH MASONRY SHALL BE NO.2 SOUTHERN PINE, PRESSURE TREATED.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS WILL BE PERFORMED IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS

2. OWNER SHALL DIRECTLY EMPLOY AND PAY FOR SERVICES OF THE SPECIAL INSPECTORS TO PERFORM REQUIRED SPECIAL INSPECTIONS.

3. THE FOLLOWING GENERAL TYPES OF WORK REQUIRE SPECIAL INSPECTION: (REFER TO STATEMENT OF SPECIAL INSPECTIONS FOR DETAILED INSPECTION REQUIREMENTS)

   FOUNDATIONS
   CONCRETE
   REINFORCING STEEL
   POST-INSTALLED CONCRETE ANCHORS
   MASONRY
   STRUCTURAL STEEL
   STRUCTURAL WELDING
   HIGH STRENGTH BOLTS

RENOVATION AND EXISTING STRUCTURES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING STRUCTURE. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS NECESSARY FOR PROPER FABRICATION AND ERECTION OF ALL STRUCTURAL MEMBERS. THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURES AS REQUIRED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF EXISTING STRUCTURES DURING CONSTRUCTION.

2. BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS. DURING THE PROCESS OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE WHERE THE EXISTING STRUCTURE IS MODIFIED TO ACCOMMODATE NEW CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING STRUCTURE, WHICH ARE TO REMAIN.

3. ALL EXISTING STRUCTURAL ELEMENTS (SLABS, BEAMS, WALLS, COLUMNS, FOUNDATIONS...) SHALL REMAIN INTACT UNLESS SPECIFICALLY NOTED TO BE REMOVED BY THE DEMOLITION DOCUMENTS OR OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS.

4. INFORMATION PROVIDED ON THESE DRAWINGS RELATED TO EXISTING CONDITIONS IS BASED ON AVAILABLE DESIGN DOCUMENTS AND LIMITED FIELD OBSERVATION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND AWAIT DIRECTION FROM THE OWNER'S REPRESENTATIVE IF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS IS DISCOVERED.

5. THIS PROJECT REQUIRES DRILLING INTO EXISTING REINFORCED CONCRETE STRUCTURE. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL PAYMENT FOR DIFFICULTIES ENCOUNTERED IN DRILLING DUE TO HARDNESS OF MATERIALS, HITTING OF EXISTING REINFORCING, ETC. ALL COSTS ASSOCIATED WITH RE-DRILLING OF HOLES DUE TO HITTING EXISTING REINFORCING STEEL SHALL BE BORNE BY THE CONTRACTOR. THIS INCLUDES FILLING UNNECESSARY AND UNUSED HOLES WITH EPOXY GROUT. DO NOT CUT REINFORCING STEEL DURING CONCRETE DRILLING OR CORING OPERATIONS. LOCATE REINFORCING USING NON-DESTRUCTIVE TESTING PRIOR TO DRILLING AND CORING OPERATIONS.

6. CORE DRILLS REQUIRED BY MECHANICAL OR ELECTRICAL TRADES BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE DOCUMENTED SHOWING EXACT DIMENSIONS AND LOCATIONS. THE DRAWING SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PROCEEDING WITH THE DRILLING OPERATION.

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DAVID W. REYNOLDS
Lic. No. 047908
05/05/23
PROFESSIONAL ENGINEER

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

S-001

READY FOR CONSTRUCTION

GENERAL NOTES THIS SHEET:

A. SEE SHEET S-001 FOR GENERAL NOTES.

B. SEE S-500 SERIES FOR TYPICAL DETAILS

C. SLAB-ON-GROUND IS 4" THICK, TYPICAL.

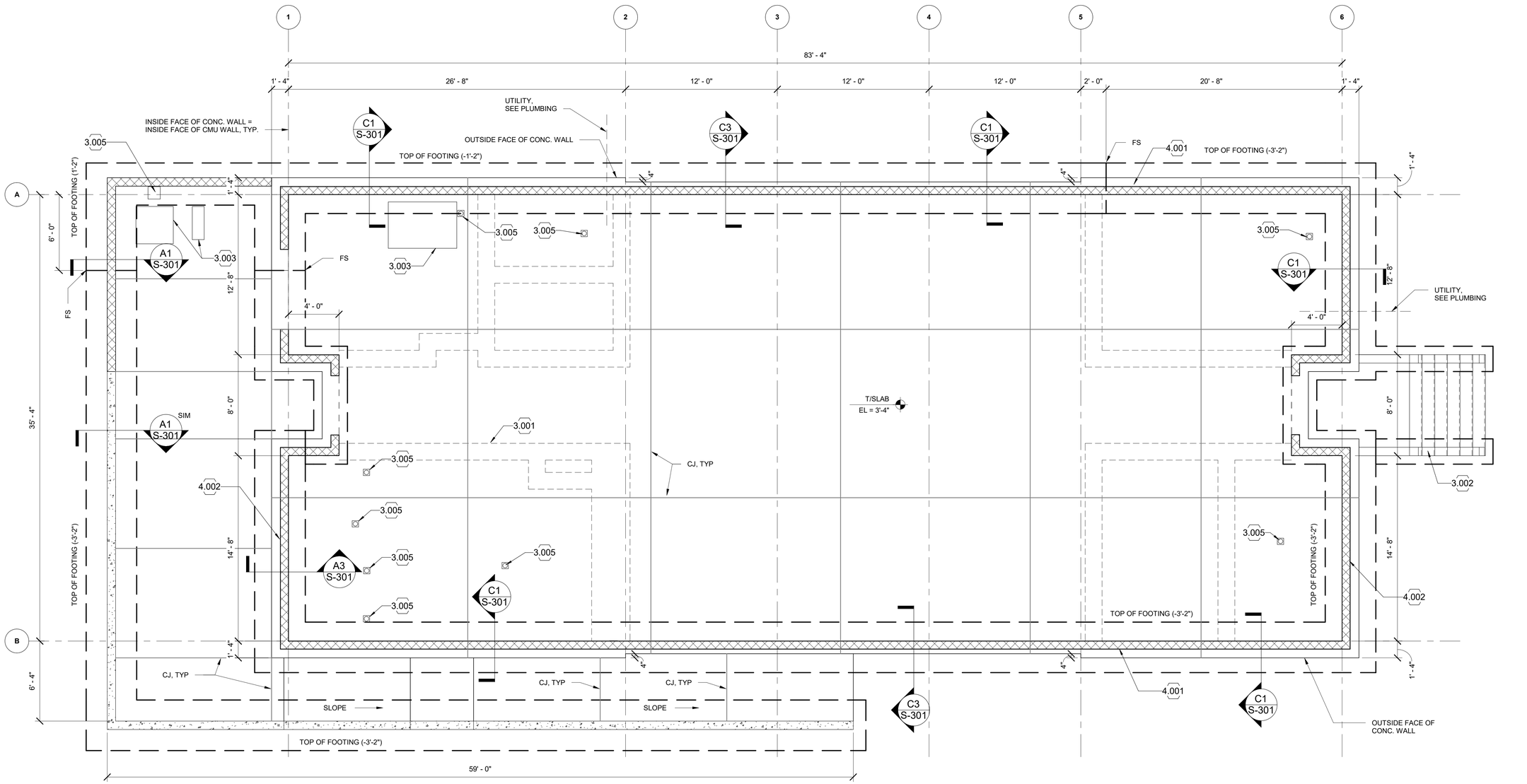
D. "CJ" INDICATES CONTROL JOINT, SEE TYPICAL DETAILS.

E. ALL ELEVATIONS ARE IN REFERENCE TO 0'-0" = FIN GRADE - SEE ARCH.

F. "FS" INDICATES FOOTING STEP, SEE TYPICAL DETAIL B5/S-501.

SHEET KEYNOTES

3.001	THICKENED SLAB AT INTERIOR PARTITION, SEE TYPICAL DETAIL ON S-501
3.002	CONCRETE STAIR, SEE TYPICAL DETAIL
3.003	EQUIPMENT PAD, SEE DETAIL C5/S-501
3.005	SLOPE SLAB TO DRAIN, SEE ARCH
4.001	8" CMU - #5 @48" VERT REINF
4.002	8" CMU - #5 @32" VERT REINF



FOUNDATION PLAN - NEW FIELD HOUSE

1/4" = 1'-0"

TN
PN

1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

READY FOR CONSTRUCTION

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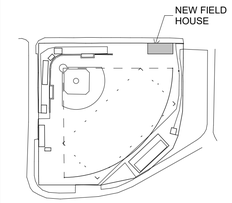
KEY PLAN



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I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
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60699711

SHEET TITLE

FOUNDATION PLAN - NEW FIELD HOUSE

SHEET NUMBER

S-101

GENERAL NOTES THIS SHEET:

A. SEE SHEET S-001 FOR GENERAL NOTES.

B. SEE S-500 SERIES FOR TYPICAL DETAILS

C. TOP OF FOOTINGS ARE TWO FEET BELOW EXST FFL U.N.O.

D. SLAB-ON-GROUND IS 4" THICK, TYPICAL.

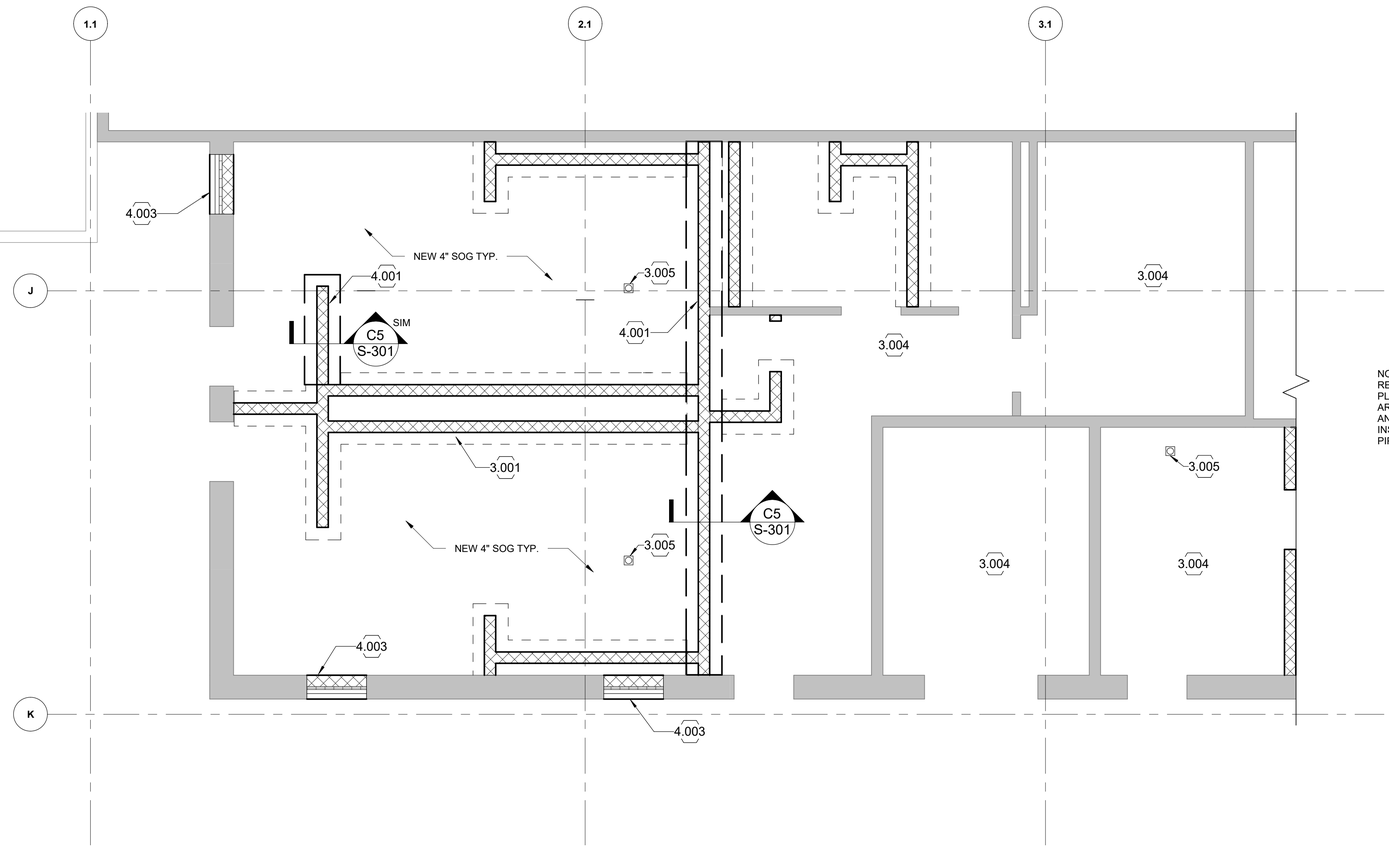
E. "CJ" INDICATES CONTROL JOINT, SEE TYPICAL DETAILS.

F. ALL ELEVATIONS ARE IN REFERENCE TO 0'-0" = EXST FFL - SEE ARCH.

G. "FS" INDICATES FOOTING STEP, SEE TYPICAL DETAIL B5/S-501.

SHEET KEYNOTES

3.001	THICKENED SLAB AT INTERIOR PARTITION, SEE TYPICAL DETAIL ON S-501
3.004	FOR SELECT SLAB DEMO AND REPLACEMENT, REFER TO DETAIL C1/S-501
3.005	SLOPE SLAB TO DRAIN, SEE ARCH
4.001	8" CMU - #5 @48" VERT REINF
4.003	FILL EXISTING OPEINGS WITH MASONRY TO MATCH ORIGINAL CONSTRUCTION OF THE BUILDING.



NOTE:
REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL AREAS REQUIRING SELECT SLAB DEMO AND REPLACEMENT TO ACCOMODATE INSTALLATION OF NEW UNDERGROUND PIPING AND SLOPED SLABS.

FOUNDATION - EXISTING FIELD HOUSE

1/4" = 1'-0"

EXIST TN

PN

4' 2' 0 4' 8'

1/4"=1'-0"

GRAPHIC SCALES

READY FOR CONSTRUCTION

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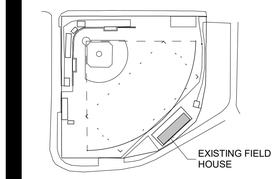
KEY PLAN



SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

SHEET TITLE

FOUNDATION PLAN - EXISTING FIELD HOUSE

SHEET NUMBER

S-102

GENERAL NOTES THIS SHEET:

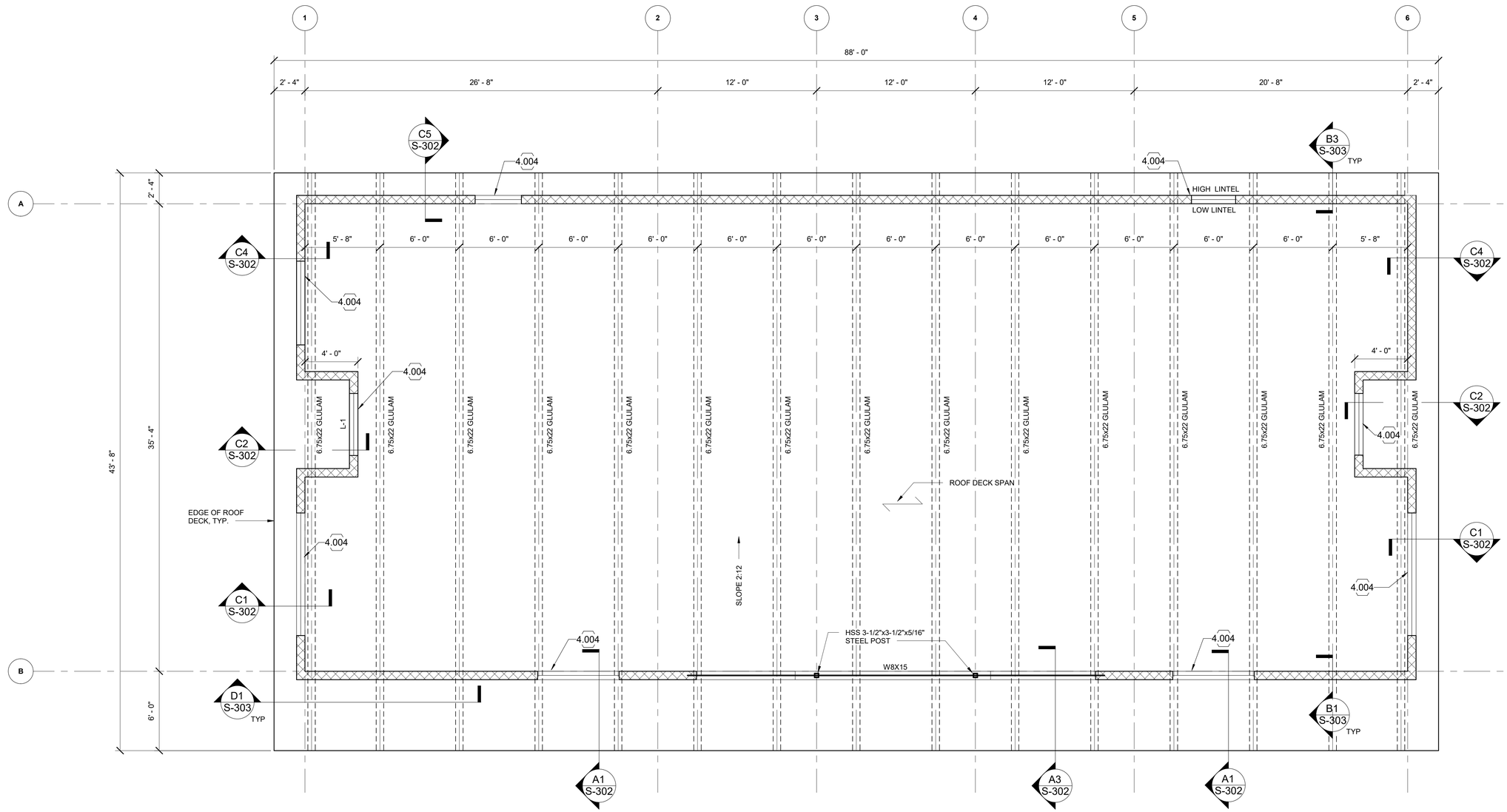
A. SEE SHEET S-001 FOR GENERAL NOTES.

B. SEE S-500 SERIES FOR TYPICAL DETAILS

C. ROOF DECK SHALL BE 2X6 (NOMINAL) GLULAM TONGUE AND GROOVE DECKING WITH 1/2" PLYWOOD SHEATHING OVERLAY. REFER TO SPECIFICATIONS AND GENERAL NOTES FOR ADDITIONAL INFORMATION.

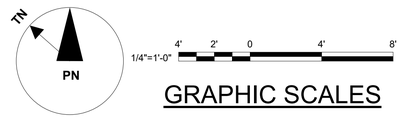
SHEET KEYNOTES

4.004 MASONRY LINTEL, SEE DETAIL C5/S-502



ROOF FRAMING PLAN - NEW FIELD HOUSE

1/4" = 1'-0"



GRAPHIC SCALES

READY FOR CONSTRUCTION

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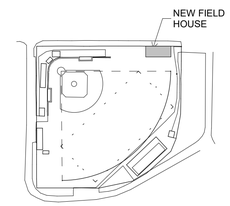


SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

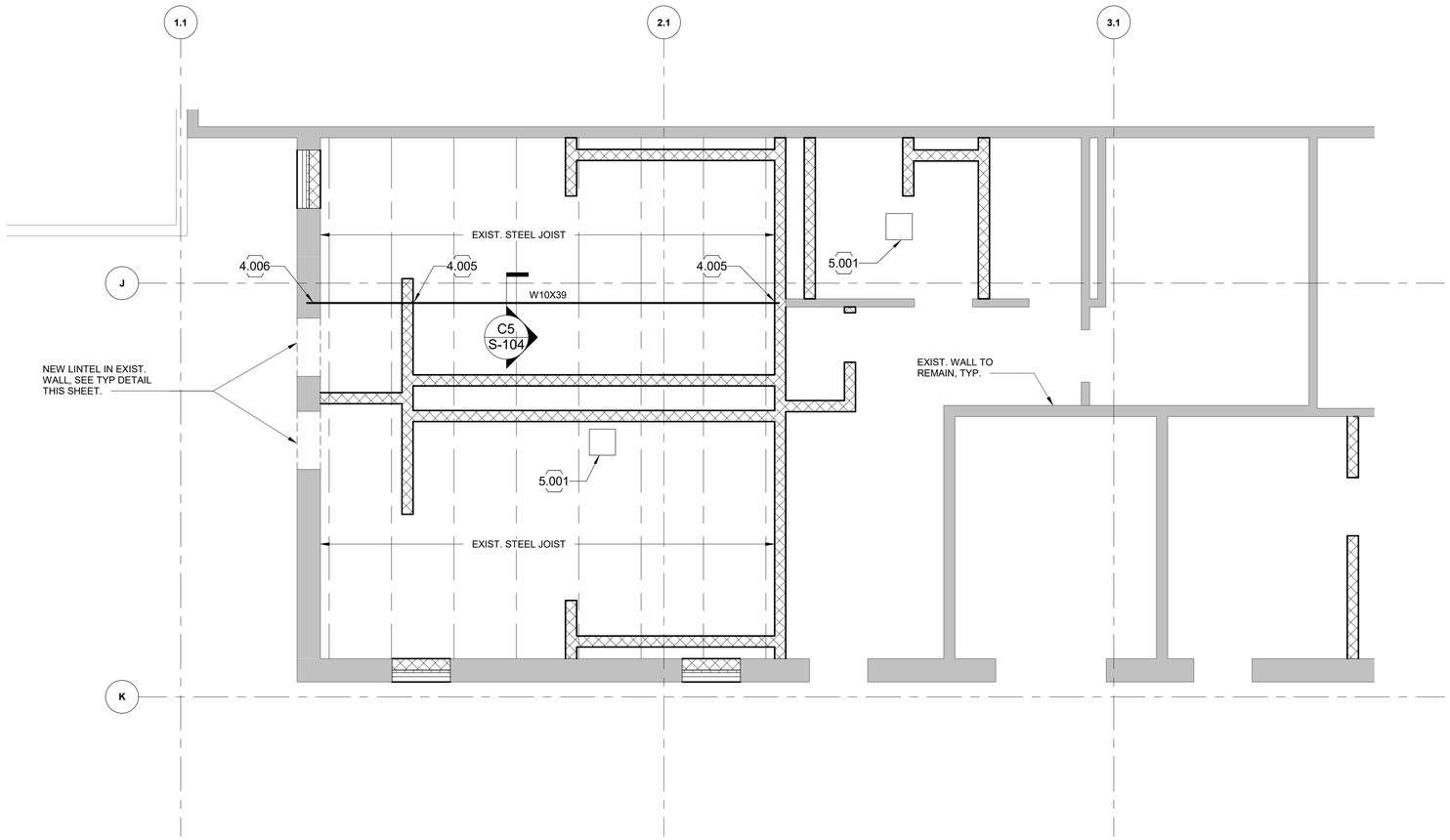
60699711

SHEET TITLE

FRAMING PLAN - NEW FIELD HOUSE

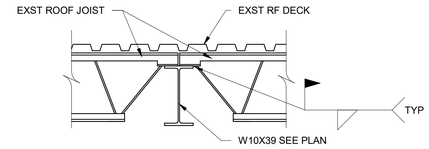
SHEET NUMBER

S-103

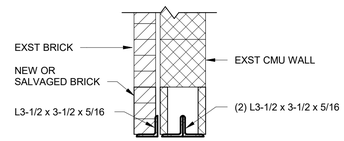


FRAMING - EXISTING FIELD HOUSE

1/4" = 1'-0"



C5
S-104
SECTION
NOT TO SCALE



NOTES:
1. PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS AT EACH END, UNLESS NOTED OTHERWISE.
2. PROVIDE TOOTHED-IN CMU AT NEW OPENING JAMBS.
3. GC FIELD VERIFY EXST WALL CONSTRUCTION.
4. LINTELS IN EXTERIOR WALLS SHALL BE HOT-DIP GALVANIZED.

TYPICAL LINTEL - EXISTING WALL

1" = 1'-0"

EXIST TN
PN

1"=1'-0" 12" 9" 6" 3" 0 1' 2'
1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

GENERAL NOTES THIS SHEET:

A. SEE SHEET S-001 FOR GENERAL NOTES.

B. SEE S-500 SERIES FOR TYPICAL DETAILS

SHEET KEYNOTES

4.005	W10 BEARING ON NEW 8" CMU WALL, SEE DETAIL A3/S-502
4.006	W10 BEARING ON EXIST WALL, SEE DETAIL D3/S-502
5.001	MECH ROOF OPENING, SEE DETAIL D1/S-502

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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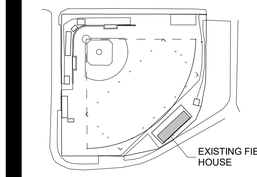
Lic. No. 047908
05/05/23
PROFESSIONAL ENGINEER

KEY PLAN



SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

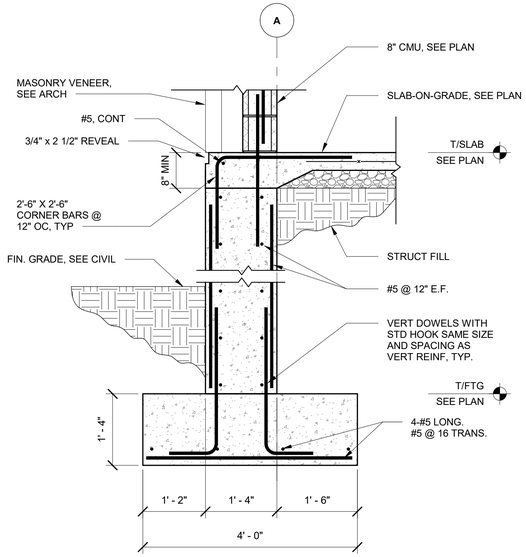
SHEET TITLE

FRAMING PLAN - EXISTING FIELD HOUSE

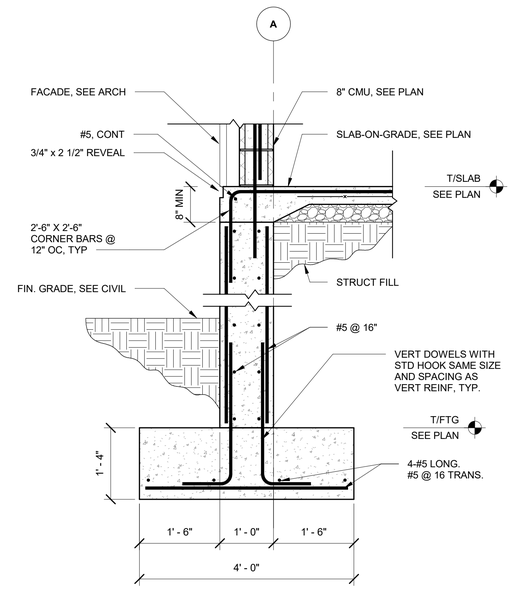
SHEET NUMBER

S-104

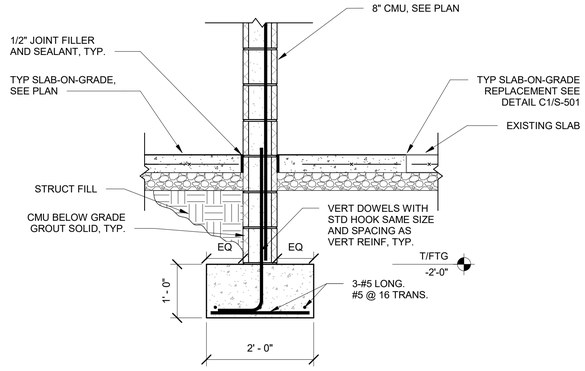
READY FOR CONSTRUCTION



C1 S-301 **SECTION**
3/4" = 1'-0"

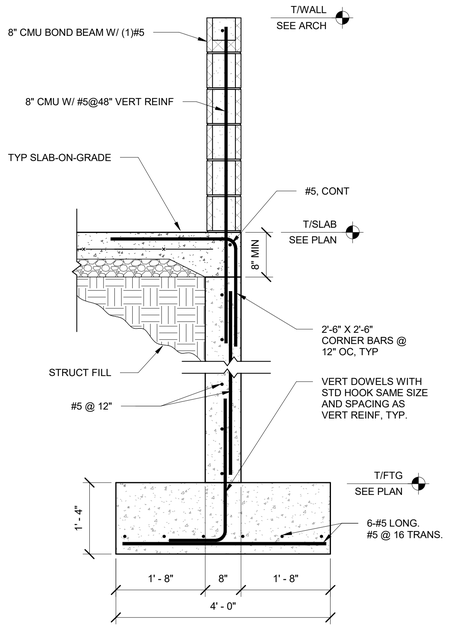


C3 S-301 **SECTION**
3/4" = 1'-0"



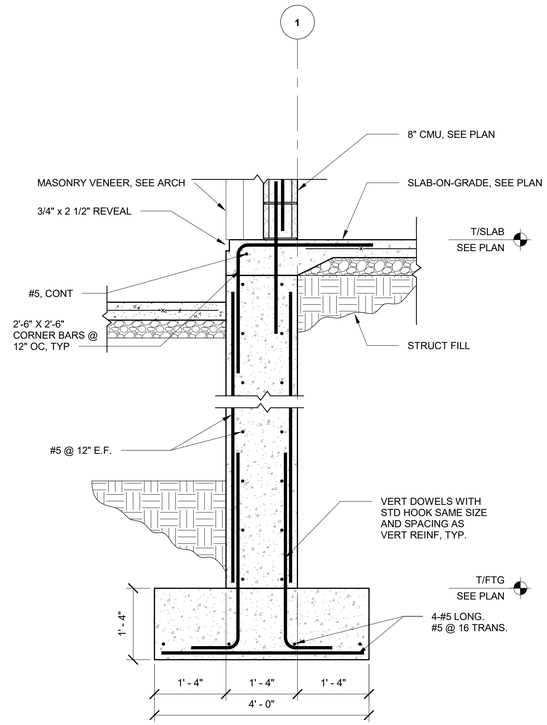
NOTES:
1) TOP OF FOOTING ELEVATION IS IN REFERENCE TO 0'-0" = EXIST BUILDING FFL, SEE ARCH
2) FOR SIM SECTION NEW SOG BOTH SIDES OF WALL, SEE PLAN

C5 S-301 **SECTION**
3/4" = 1'-0"



NOTE: GUARDRAIL AT SIM - SEE ARCH

A1 S-301 **SECTION**
3/4" = 1'-0"



A3 S-301 **SECTION**
3/4" = 1'-0"

12" 6" 0 1' 2' 3'
3/4"=1'-0"

GRAPHIC SCALES

READY FOR CONSTRUCTION

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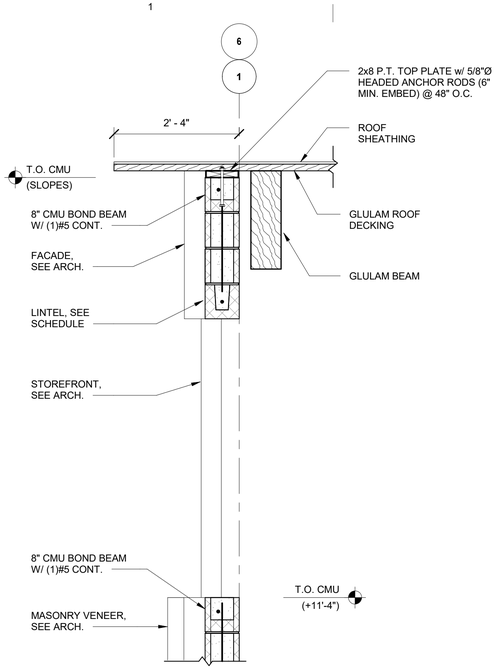
SHEET TITLE

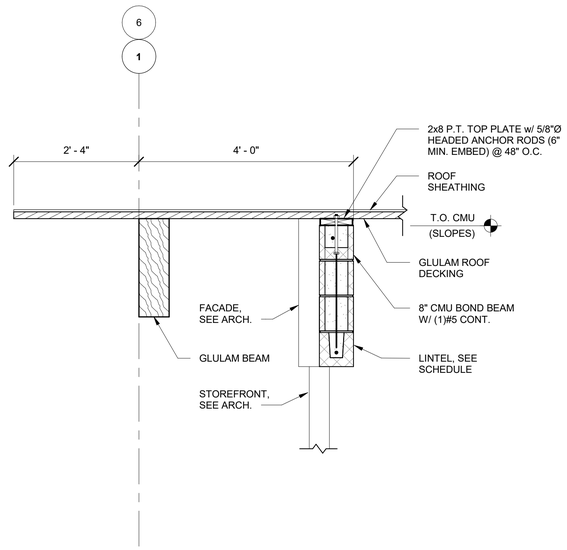
FOUNDATION SECTIONS AND DETAILS

SHEET NUMBER

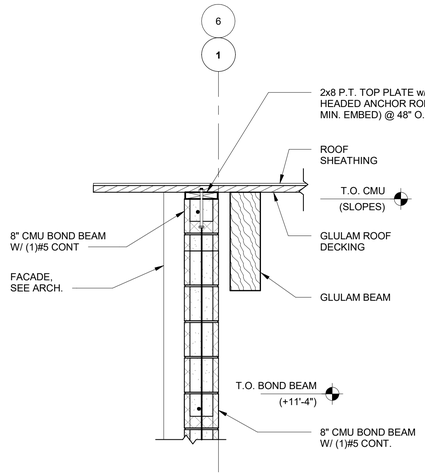
S-301



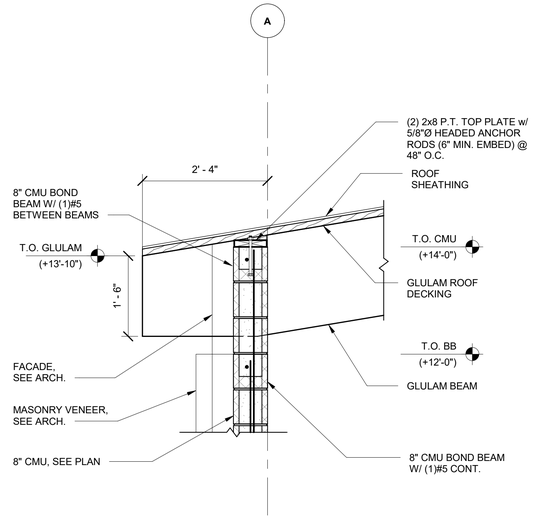
C1 / S-302 **SECTION**
3/4" = 1'-0"



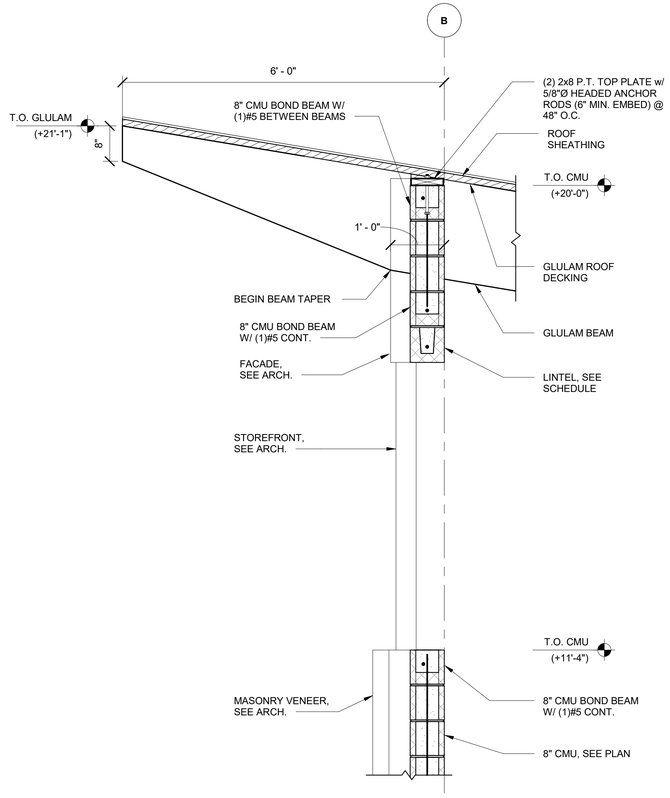
C2 / S-302 **SECTION**
3/4" = 1'-0"



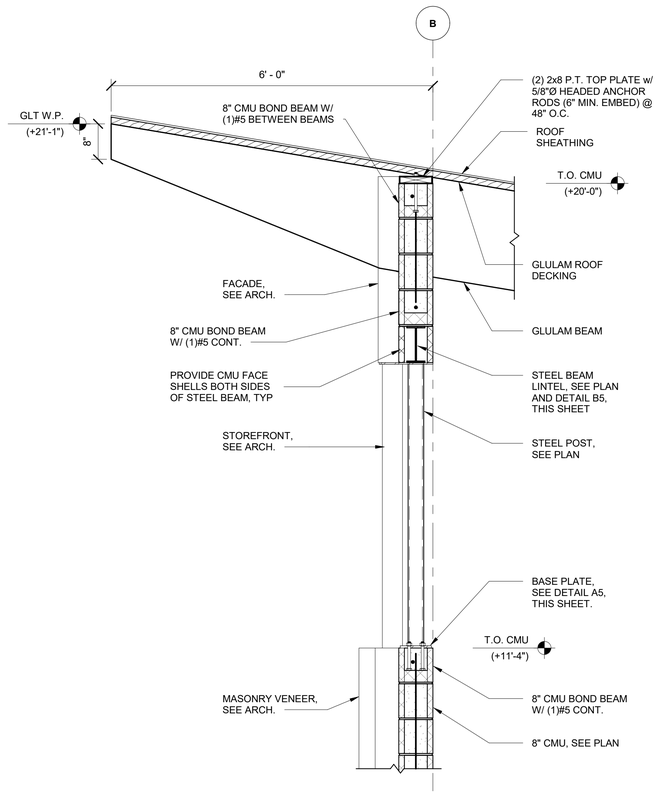
C4 / S-302 **SECTION**
3/4" = 1'-0"



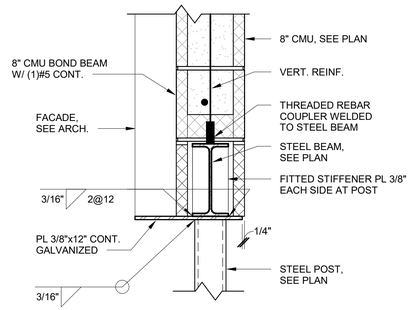
C5 / S-302 **SECTION**
3/4" = 1'-0"



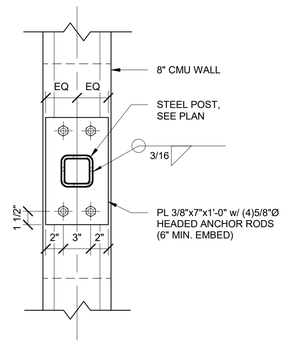
A1 / S-302 **SECTION**
3/4" = 1'-0"



A3 / S-302 **SECTION**
3/4" = 1'-0"



B5 / S-302 **DETAIL**
1 1/2" = 1'-0"



A5 / S-302 **DETAIL**
1 1/2" = 1'-0"

1-1/2"=1'-0" 12" 9" 6" 3" 0 1'

3/4"=1'-0" 12" 6" 0 1' 2' 3'

GRAPHIC SCALES

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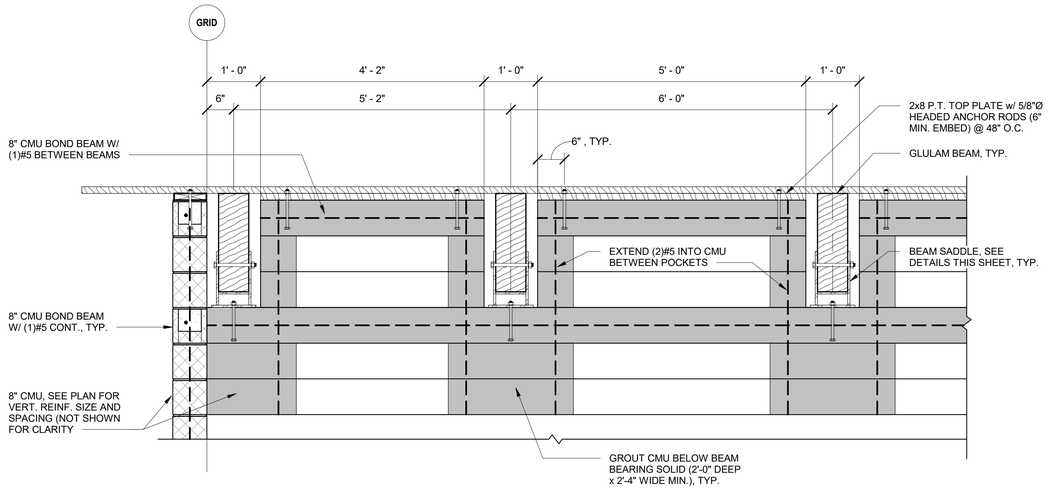
SHEET TITLE

FRAMING SECTIONS AND DETAILS

SHEET NUMBER

S-302



D1 / S-303

TYPICAL ELEVATION AT BEAM POCKETS

3/4" = 1'-0"

B1 / S-303

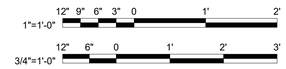
TYPICAL BEAM SADDLE - HIGH EAVE

1" = 1'-0"

B3 / S-303

TYPICAL BEAM SADDLE - LOW EAVE

1" = 1'-0"



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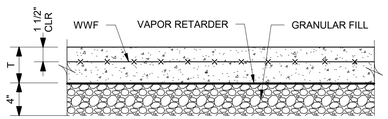
FRAMING SECTIONS AND DETAILS

SHEET NUMBER

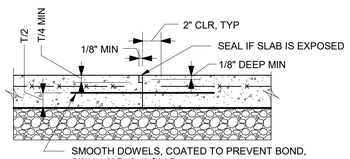
S-303

READY FOR CONSTRUCTION



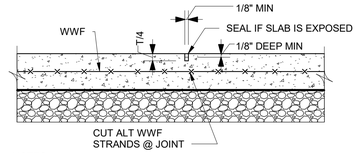
NOTES:
1. SEE FOUNDATION PLAN FOR SLAB THICKNESS.
2. SEE CONCRETE NOTES FOR REINFORCEMENT REQUIREMENTS.
3. PROVIDE CHAIRS TO SUPPORT WWF AT SPECIFIED ELEVATION.

D1 / S-501 TYPICAL SLAB-ON-GRADE
NOT TO SCALE



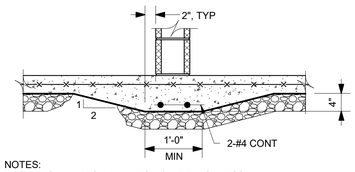
NOTES:
1. SEE FOUNDATION PLAN FOR SLAB THICKNESS.
2. SEE TYPICAL SLAB-ON-GRADE DETAIL THIS SHEET FOR SLAB DETAILS NOT SHOWN.

D2 / S-501 CONSTRUCTION JOINT
NOT TO SCALE



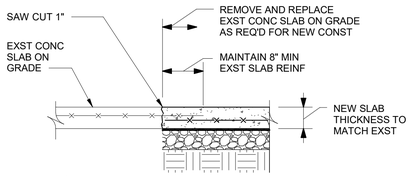
NOTES:
1. SEE FOUNDATION PLAN FOR SLAB THICKNESS.
2. SEE TYPICAL SLAB-ON-GRADE DETAIL THIS SHEET, FOR SLAB DETAILS NOT SHOWN.
3. IF FORMED JOINT IS USED INSERT 1/8" PREMOLDED OR METAL STRIPS WHEN CONCRETE IS PLACED IF SAWED JOINT IS USED, SEAL IF SLAB IS EXPOSED.

D3 / S-501 CONTROL JOINT
NOT TO SCALE



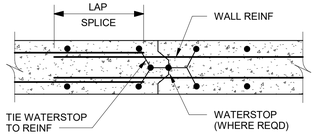
NOTES:
1. SEE FOUNDATION PLAN FOR SLAB THICKNESS.
2. THICKEN SLAB UNDER ALL INTERIOR CMU PARTITIONS EXCEEDING 8'-0" IN HEIGHT.
3. SEE TYPICAL SLAB-ON-GRADE DETAIL THIS SHEET, FOR SLAB DETAILS NOT SHOWN.

D5 / S-501 TYPICAL SLAB DETAIL AT INTERIOR NON-LOAD BEARING WALL
NOT TO SCALE



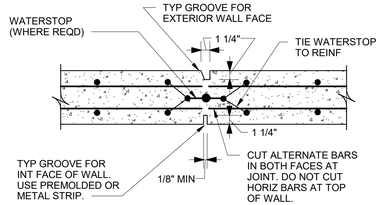
NOTE:
1. SEE TYPICAL SLAB-ON-GRADE DETAIL THIS SHEET, FOR SLAB DETAILS NOT SHOWN.

C1 / S-501 TYPICAL SLAB ON GRADE REPLACEMENT DETAIL
NOT TO SCALE

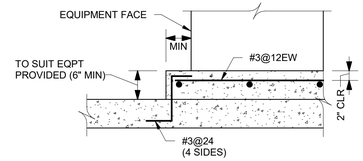


NOTE:
WALLS 10" AND OVER IN THICKNESS TO HAVE KEY 2-1/2" DEEP BY APPROXIMATELY 1/3 THICKNESS OF WALL.

C2 / S-501 CONC WALL CONSTRUCTION JT
NOT TO SCALE

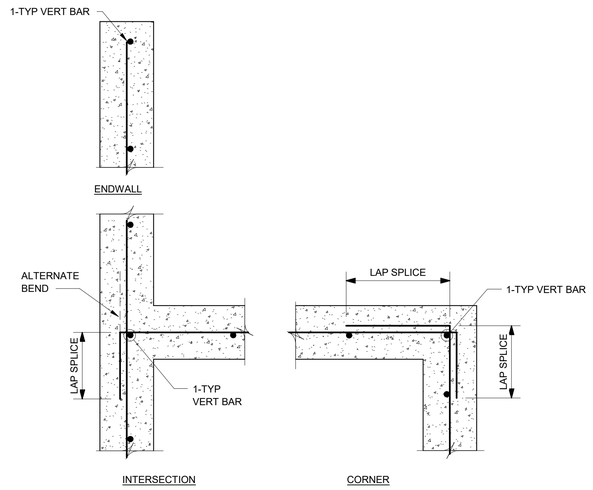


C4 / S-501 CONC WALL CONTROL JT
NOT TO SCALE

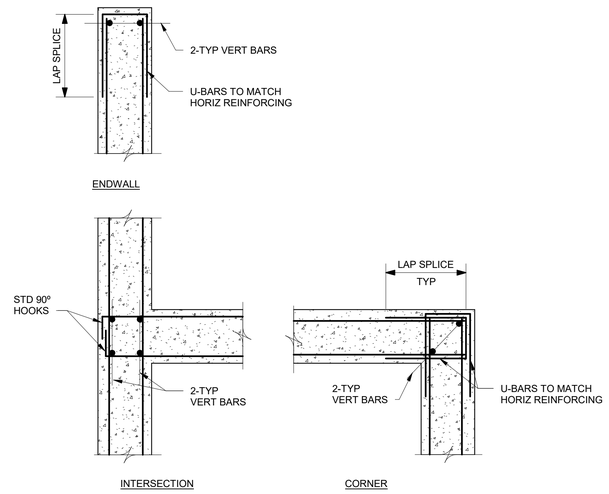


NOTE:
AT CONTRACTOR'S OPTION, DOWELS MAY BE INSTALLED BY DRILLING AND GROUTING AFTER SLAB IS PLACED.

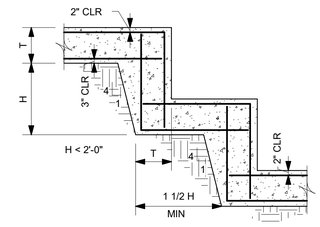
C5 / S-501 EQUIPMENT PAD DETAIL
NOT TO SCALE



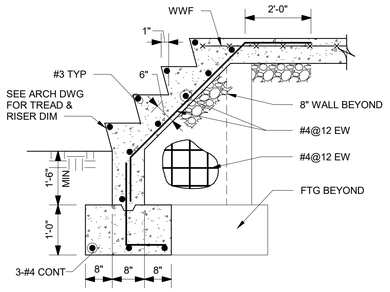
A1 / S-501 TYPICAL REINFORCING AT WALL INTERSECTIONS SINGLE MAT REINFORCING
NOT TO SCALE



A3 / S-501 TYPICAL REINFORCING AT WALL INTERSECTIONS DOUBLE MAT REINFORCING
NOT TO SCALE



B5 / S-501 FOOTING STEP
NOT TO SCALE



A5 / S-501 TYP STAIR ON GRADE W/ CHEEK WALL DETAIL
NOT TO SCALE

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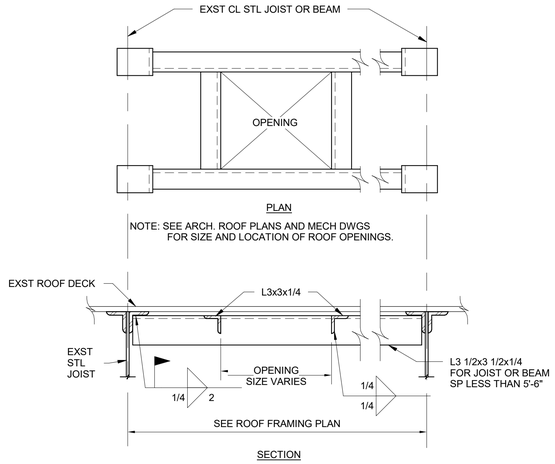
SHEET TITLE

TYPICAL DETAILS

SHEET NUMBER

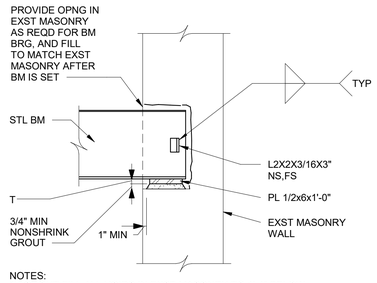
S-501

READY FOR CONSTRUCTION



D1 S-502 TYPICAL FRAMING FOR ROOF OPENING

NOT TO SCALE

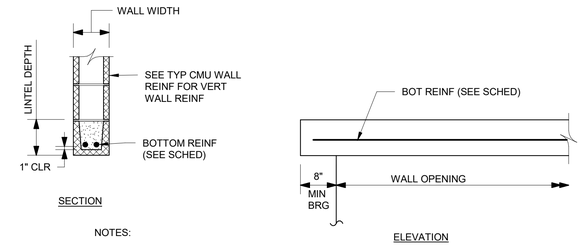


NOTES:

1. GROUT FILL ALL VOIDS IN EXST MASONRY TO 1'-4" BELOW BEAM BRG AND MIN 1'-4" EA SIDE OF BEAM OR REPLACE EQUILVALENT AREA W/ SOLID UNITS TO MATCH EXIST.
2. FOR STEEL LINTELS AT MASONRY CONTROL JOINTS, OMIT L2X2, AND PROVIDE COAT OF GREASE BETWEEN BOT FLANGE AND BEARING PLATE.

D3 S-502 BEAM BEARING ON EXISTING MASONRY WALL DETAIL

NOT TO SCALE



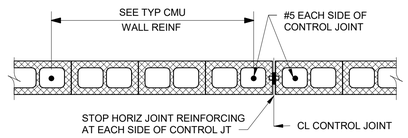
NOTES:

1. FILL CMU CORE AT LINTEL BEARING WITH GROUT AND 1-#5 VERT CONT, TYPICAL FULL HEIGHT FOR NON-LOAD-BEARING PARTITIONS.
2. FIELD CUT OPENINGS GREATER THAN 12" USE CMU LINTEL OR FOR OPENINGS UP TO 3'-0" USE L4x4x1/4, EACH SIDE OF THE WALL, WITH 8" BEARING EACH END.

CMU LINTEL SCHEDULE		
WALL OPENING	LINTEL DEPTH	REINFORCING
UP TO 4'-0"	8"	2-#4 BOTTOM
4'-0" TO 6'-0"	8"	2-#5 BOTTOM
6'-0" TO 8'-0"	16"	2-#5 BOTTOM
8'-0" TO 10'-4"	16"	2-#6 BOTTOM

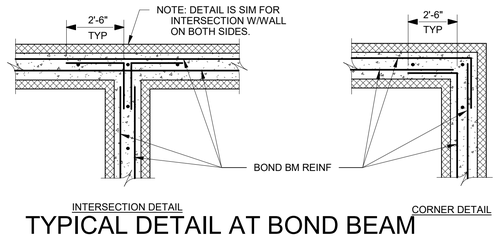
C5 S-502 TYPICAL MASONRY LINTEL

NOT TO SCALE



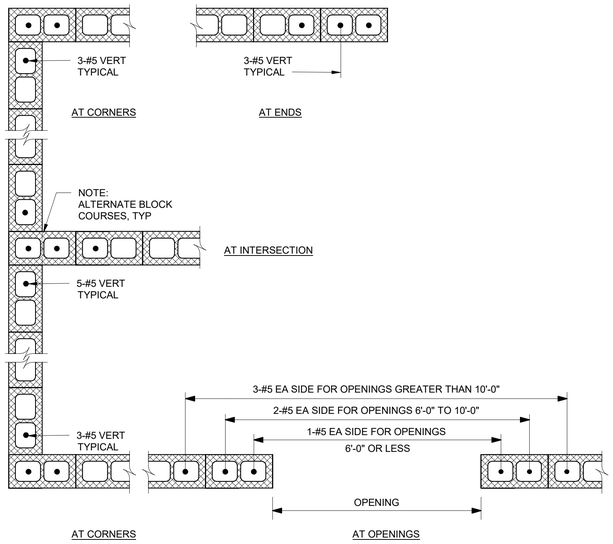
C1 S-502 TYPICAL REINFORCING AT CONTROL JOINT

NOT TO SCALE



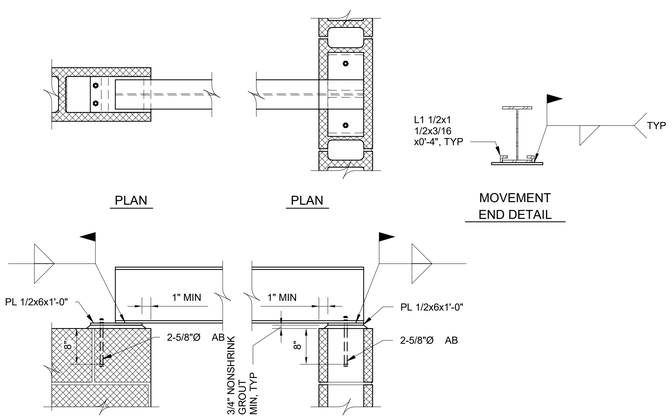
C3 S-502 TYPICAL DETAIL AT BOND BEAM INTERSECTIONS

NOT TO SCALE



A1 S-502 TYPICAL REINFORCING AT LOAD-BEARING CMU WALLS

NOT TO SCALE

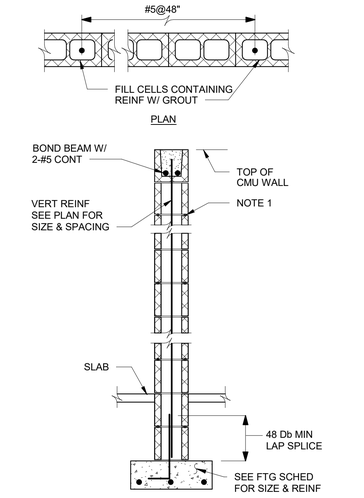


NOTES:

1. PROVIDE 3 COURSES OF SOLID OR CONCRETE FILLED HOLLOW UNITS MIN 2'-0" EA SIDE OF CL PLATE.
2. AT ALL BEAMS WELD ONE END TO THE BEARING PLATE AND USE ANGLES TO ALLOW FOR MOVEMENT AT OTHER END.

A3 S-502 TYPICAL BEARING PLATE DETAIL

NOT TO SCALE



NOTES:

1. HORIZONTAL JOINT REINFORCEMENT SPACED AT 16" O.C. VERT WITH 2-NO. 9 WIRE MINIMUM. PROVIDE ADDITIONAL HORIZONTAL JOINT REINFORCEMENT ONE COURSE ABOVE AND BELOW OPENINGS EXTENDING A MINIMUM OF 2'-0" BEYOND FACE OF OPENING ON EACH SIDE.
2. PROVIDE BOND BEAM WITH 2-#5 CONT AT ROOF FRAMING ELEVATION.
3. CONTINUE BOND BEAM REINFORCEMENT THROUGH CMU CONTROL JOINTS.

A5 S-502 TYPICAL CMU WALL REINF

NOT TO SCALE

AECOM

PROJECT

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I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

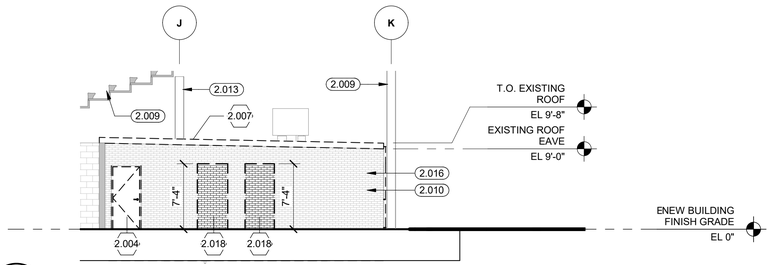
SHEET TITLE

TYPICAL DETAILS

SHEET NUMBER

S-502

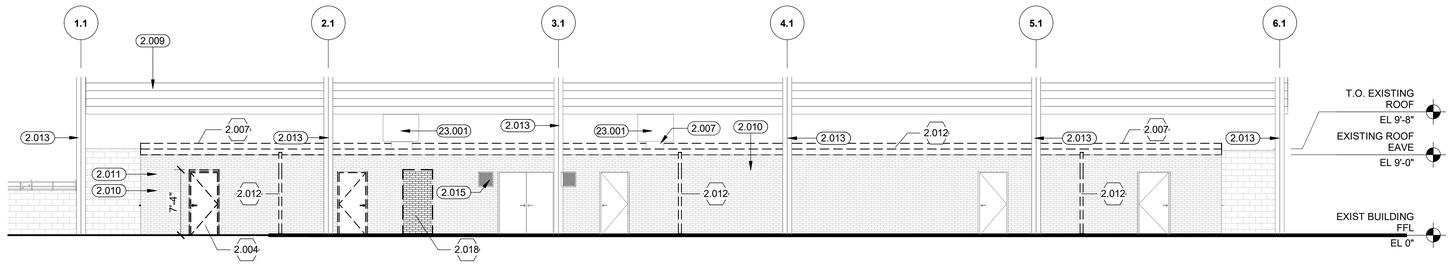
READY FOR CONSTRUCTION



E1 AD101

DEMOLITION ELEVATION - WEST

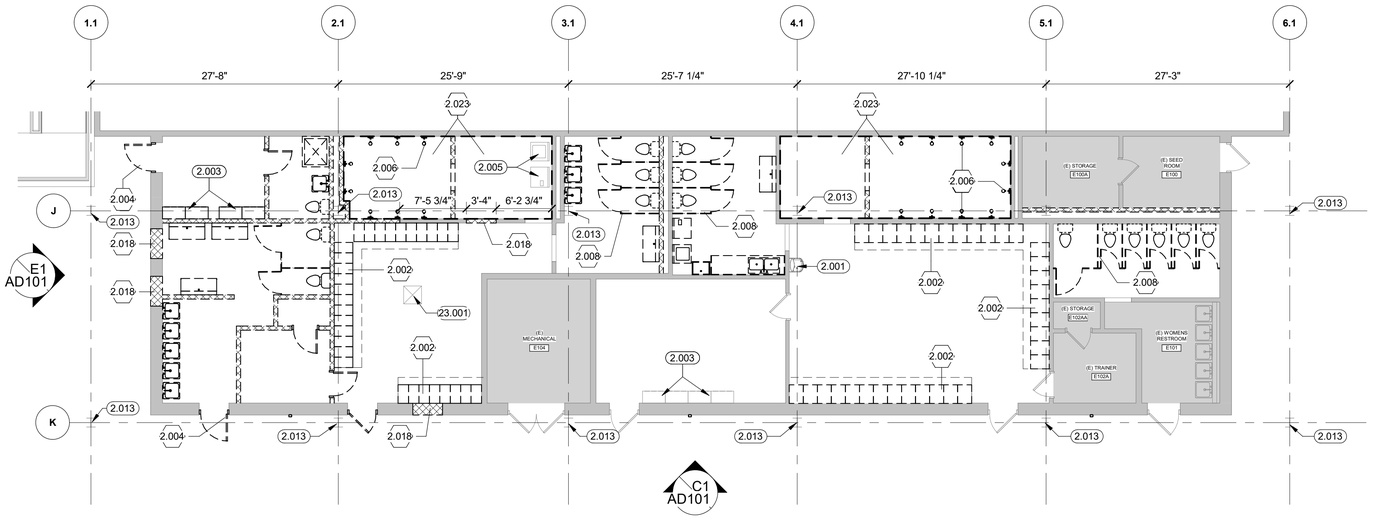
1/8" = 1'-0"



C1 AD101

DEMOLITION ELEVATION - SOUTH

1/8" = 1'-0"



A1 AD101

DEMOLITION PLAN - EXISTING FIELD HOUSE

1/8" = 1'-0"

SHEET KEYNOTES:

2.009	EXISTING BLEACHERS ABOVE
2.010	PATCH AND REPAIR BRICK JOINTS, TYP
2.011	EXISTING WALL TO REMAIN
2.012	GUTTER, DOWNSPOUTS, AND ALL RELATED COMPONENTS TO BE REMOVED
2.013	PROTECT IN PLACE ETR STEEL BLEACHER COLUMN
2.015	PROTECT IN PLACE ETR LOUVERS AND FRAME
2.016	EXISTING EXTERIOR WALL: BRICK OVER CMU, CONTRACTOR TO FIELD VERIFY WALL CONSTRUCTION AND DIMENSIONS PRIOR TO WORK
2.018	DEMO WALL AND PATCH AS REQUIRED TO PREPARE FOR NEW WORK
2.023	DEMO EXISTING CEILING AND ALL COMPONENTS, PATCH AS REQUIRED TO PREPARE FOR NEW WORK
23.001	EXISTING ROOF DUCT ABOVE, SEE MECHANICAL

SHEET KEYNOTES:

2.001	PROTECT IN PLACE ETR WATER FOUNTAIN
2.002	EXISTING LOCKERS AND ALL RELATED COMPONENTS TO BE DEMOLISHED
2.003	REMOVE LOCKERS AND STORE FOR REINSTALLATION
2.004	DEMO DOOR FRAME AND REPLACE IN KIND WITH EXISTING WALL CONSTRUCTION. CONTRACTOR TO FIELD VERIFY WALL CONSTRUCTION AND DIMENSIONS PRIOR TO DEMOLITION
2.005	REMOVE WASHER/DRYER AND STORE FOR REINSTALLATION
2.006	REMOVE SHOWER FIXTURES AND PATCH WALL TO PREPARE FOR NEW WORK
2.007	REMOVE EXISTING ROOFING, GRAVEL AND INSULATION DOWN TO EXISTING METAL DECK. REPLACE ANY LOOSE OR DAMAGED WOOD BLOCKING
2.008	DEMO EXISTING TOILETS, ACCESSORIES, PARTITIONS, AND ALL RELATED COMPONENTS.

GENERAL DEMOLITION NOTES AND LEGEND

ARCHITECTURAL

1. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO START OF WORK. NOTIFY ARCHITECT AND OWNER IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE DRAWINGS. FAILURE BY THE CONTRACTOR TO HAVE REVIEWED AVAILABLE INFORMATION CONCERNING EXISTING CONDITIONS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITIES OF PERFORMANCE OF WORK IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

2. DEMOLITION WORK SHOWN IS BASED ON INFORMATION TAKEN FROM EXISTING DRAWINGS AND LIMITED FIELD INSPECTION. ACTUAL CONDITIONS MAY VARY FROM THOSE DEPICTED. THE CONTRACTOR SHALL OBTAIN COPIES OF EXISTING DRAWINGS AND HAVE ACCESS TO VISIT THE BUILDING SITE TO FIELD VERIFY CONDITIONS OF THE EXISTING BUILDING PRIOR TO BIDDING AND/OR STARTING THE WORK AND IS RESPONSIBLE FOR PERFORMING COMPLETE DEMOLITION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER IN WRITING OF ANY WORK DESCRIBED IN THE CONTRACT DOCUMENTS WHICH CANNOT BE PERFORMED DUE TO EXISTING CONDITIONS.

3. DEMOLITION INCLUDES ALL COMPONENTS, MATERIALS, FINISHES, FIXTURES AND EQUIPMENT TO LIMITS SHOWN IN DRAWINGS AND SPECIFICATIONS, AND AS REQUIRED FOR CONSTRUCTION OF NEW WORK LAYOUT. REMOVE WALLS AS SHOWN, ASSOCIATED CEILING, AND FLOORING MATERIALS. DEMO AND REMOVE ALL HIDDEN ITEMS SUCH AS PIPING, CONDUIT, ETC. CONTRACTOR SHALL COORDINATE EXTENT OF DEMOLITION TO SCOPE OF NEW WORK. REMOVAL SHALL BE COMPLETE AND BE PREPARED TO RECEIVE NEW WORK AS SHOWN. REFER TO RENOVATION DOCUMENTS IN THIS SET FOR INCIDENTAL WORK NOT SHOWN ON DEMOLITION DRAWINGS. PATCH HOLES IN STRUCTURAL SLAB WHERE DRAINS, CONDUIT, AND/OR DUCTWORK ARE REMOVED WITH APPROPRIATELY RATED FIRESTOPPING SYSTEMS.

4. IF HAZARDOUS MATERIALS ARE DISCOVERED DURING REMOVAL OPERATIONS, STOP WORK AND NOTIFY OWNER. HAZARDOUS MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, REGULATED ASBESTOS CONTAINING MATERIALS, LEAD BASED PAINTS, PCB'S AND MERCURY. REFER TO REPORT IN SPEC 00 31 26.

5. PRIOR TO PROCEEDING WITH ANY WORK WITHIN THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS. DURING THE PROCESS OF CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF EXISTING WORK WHERE EXISTING WORK IS MODIFIED TO ACCOMMODATE NEW CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF EXISTING WORK, WHICH ARE TO REMAIN.

6. SHORE AND BRACE ALL WORK TO REMAIN. COORDINATE ANY STRUCTURAL ADDITIONS OR MODIFICATIONS WITH THE STRUCTURAL DRAWINGS.

7. IF DEMOLITION IMPACTS EXISTING PARTITIONS, UTILITIES OR OTHER ELEMENTS THAT REQUIRE SUPPORT, THE CONTRACTOR SHALL PROVIDE APPROPRIATE TEMPORARY BRACING UNTIL A PERMANENT TIE-IN IS ACHIEVED WITH THE FINAL CONSTRUCTION.

8. FURNISHINGS AND EQUIPMENT IN ALL AREAS OF RENOVATION SHALL BE PROTECTED DURING CONSTRUCTION.

9. DURING DEMOLITION PHASE, ANY DAMAGE THAT IS DONE TO THE BUILDING AREAS THAT ARE TO REMAIN SHALL BE REPAIRED TO MATCH EXISTING. SURFACES DAMAGED DURING DEMOLITION ARE TO BE PATCHED AND REPAIRED AS REQUIRED AND FINISHED TO MATCH ADJACENT AREAS. ANY ITEMS THAT ARE SCHEDULED TO BE SALVAGED FOR RE-USE AND ARE DAMAGED SHALL BE REPLACED IN KIND.

10. SALVAGE ITEMS ARE THE PROPERTY OF THE OWNER. OWNER HAS FIRST RIGHT OF REFUSAL OF ALL SALVAGED MATERIALS.

11. OWNER'S REPRESENTATIVE IS TO REMOVE ALL SYSTEMS FURNITURE PRIOR TO ANY DEMOLITION. ALL ITEMS REMAINING AT START OF CONSTRUCTION WILL NOT BE SCHEDULED FOR SALVAGE.

12. THE CONTRACTOR SHALL PREPARE A DETAILED DEMOLITION AND PHASING PLAN FOR REMOVAL, ON SITE TEMPORARY PLACEMENT AND FINAL DISPOSAL OF MATERIALS. PLAN SHALL ALSO INDICATE PROTECTIVE MEASURES AT EXISTING UTILITY SERVICES, SITE HARDSCAPING AND LANDSCAPE ELEMENTS SCHEDULED TO REMAIN. DEMOLITION AND PHASING PLANS ALSO TO INCLUDE LOCATION OF TEMPORARY BARRIERS DIVIDING AREAS OF WORK FROM ADJACENT AREAS THAT ARE TO REMAIN OPERATIONAL. PLANS ALSO TO INCLUDE INTERIM LIFE SAFETY MEASURES (ILSM) TO BE IMPLEMENTED DURING RENOVATION AND NEW CONSTRUCTION. ALL DEMOLITION AND PHASING PLANS TO BE APPROVED BY OWNER PRIOR TO BEGINNING WORK.

13. STRUCTURAL COLUMNS, SLABS, ROOF STRUCTURE, STAIR ENCLOSURE WALLS, CONCRETE STAIRS AND EXTERIOR MASONRY WALLS WHERE SHOWN TO REMAIN SHALL BE PROTECTED FROM WEATHER OR EQUIPMENT DAMAGE DURING DEMOLITION PROCESSES AND UTILIZE PROTECTIVE COVERINGS AS REQUIRED. CONTRACTOR SHALL PROVIDE SHORING AND BRACING AS REQUIRED TO ENSURE NO STRUCTURAL ELEMENTS ARE OVERLOADED.

14. CONTRACTOR SHALL REMOVE DESIGNATED WALLS IN ENTIRETY TO FULL HEIGHT FROM FLOOR TO UNDERSIDE OF STRUCTURE AND REMOVE ALL REMAINING CONNECTORS, HARDWARE AND FITTINGS. REPAIR REMAINING BUILDING COMPONENTS TO ORIGINAL EXISTING CONDITION.

15. PROVIDE WALK-OFF MATS AT ALL CONSTRUCTION ENTRANCES AND EXITS. CHECK WALK-OFF MATS DAILY AND CHANGE FREQUENTLY. BASIS OF DESIGN SHALL BE POLY-TAK STICKY MAT SELF-ADHESIVE CLEAN ROOM MATS. SEE ICRA REQUIREMENTS FOR ADDITIONAL MEASURES REQUIRED TO CONTAIN DUST AND DEBRIS.

16. CONTRACTOR SHALL PROTECT ALL SURROUNDING AREAS, PLANTS, SHRUBS, TREES, ETC. FROM DAMAGE DURING DURATION OF PROJECT AND SHALL BE RESPONSIBLE FOR ANY REQUIRED TEMPORARY PROTECTION DURING THE WORK. NO WORK WILL BE DONE WITHIN DRIP LINE OF TREES TO BE SAVED.

17. THE CONTRACTOR SHALL KEEP PREMISES CLEAN AND FREE OF ACCUMULATIONS OF WASTE MATERIALS, RUBBISH AND DEBRIS CAUSED BY DEMOLITION OPERATIONS AT ALL TIMES. CONTROL SPREAD OF DUST TO THE SURROUNDING AREA. DO NOT STOCKPILE DEMOLISHED MATERIALS ON SITE.

18. AFTER COMPLETION OF DEMOLITION ACTIVITIES, THE SITE AND AREAS OF WORK SHALL BE COMPLETELY CLEANED. ALL DEBRIS SHALL BE REMOVED, BARRICADES, SCAFFOLDS, DUST CONTROL BARRIERS AND TEMPORARY BARRIERS SHALL BE REMOVED.

19. ALL REFUSE AND DEBRIS CREATED BY THE WORK OF THIS PROJECT SHALL BE REMOVED FROM THE PREMISES AND LEGALLY DISPOSED OF AT AN OFF-SITE LOCATION, UNO. REMOVAL OF DEBRIS IS TO BE DISPOSED OF IN CONTRACTOR SUPPLIED DUMPSTER(S) AT A CENTRALIZED LOCATION. COORDINATE DUMPSTER LOCATION WITH FACILITY MANAGEMENT. PROTECT SURFACE BELOW DUMPSTER(S) AS REQUIRED, CONTRACTOR SHALL REPAIR ANY DAMAGE TO PAVED OR TURF AREAS AT PROJECT COMPLETION.

20. THE CONTRACTOR SHALL COORDINATE WITH OWNER'S AND UTILITY COMPANY REPRESENTATIVES FOR SHUT OFF PROCEDURE, TIMING AND TAGGING OF ALL EXISTING UTILITY SERVICES PRIOR TO THE START OF DEMOLITION WORK. UTILITY SERVICES CONNECTED TO CAMPUS WIDE SYSTEMS SHALL BE BY-PASSED AS NECESSARY TO ASSURE CONTINUITY OF SERVICES TO DOWN-LINE FACILITY USES.

21. EXISTING FIRE SPRINKLER AND FIRE ALARM SYSTEMS SHALL BE COORDINATED WITH TEMPORARY BARRIERS AND MAINTAINED DURING CONSTRUCTION.

22. AT DOORS SHOWN TO BE DEMOLISHED, REMOVE EXISTING DOOR, FRAME, AND HARDWARE. SALVAGE AND TURN OVER HARDWARE, INCLUDING LEVERS, KNOBS, DEADBOLTS, CLOSERS, AND HINGES, TO OWNER.

ARCHITECTURAL

EXISTING DOOR TO BE DEMOLISHED

EXISTING DOOR TO REMAIN

EXISTING PARTITION TO REMAIN

EXISTING PARTITION TO BE DEMOLISHED

ITEMS ABOVE TO BE DEMOLISHED

LEGEND:

SPACE NOT IN SCOPE

EXIST TN

PN

1/8"=1'-0" 8' 4' 0 8' 16'

GRAPHIC SCALES

READY FOR CONSTRUCTION

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PROJECT

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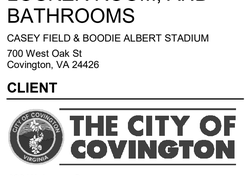
KEY PLAN



SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

SHEET TITLE

GROUND FLOOR DEMOLITION PLAN & EXTERIOR ELEVATIONS - EXISTING FIELD HOUSE

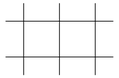
SHEET NUMBER

AD101

GENERAL REFLECTED CEILING PLAN NOTES, LEGEND AND SYMBOLS

LEGEND AND SYMBOLS

MATERIALS



2' x 2' GRID AND TILE SYSTEM - SEE SPECIFICATIONS

ANNOTATIONS

FINISHED CEILING HEIGHT AS INDICATED ON PLAN UNO.

LIGHT FIXTURES

EXISTING RECTANGULAR LIGHT FIXTURE

EXISTING CIRCULAR LIGHT FIXTURE

NEW RECTANGULAR LIGHT FIXTURE

NEW CIRCULAR LIGHT FIXTURE

NEW WALL MOUNTED LIGHT FIXTURE

OCCUPANCY SENSOR

LIFE SAFETY

EXIT SIGN, ARROW INDICATES PATH OF TRAVEL

ARCHITECTURAL

1. ALL STROBES SHALL BE LOCATED AT +80" AFF. SEE ENGINEER'S DRAWINGS FOR LOCATIONS AND SPECIFICATIONS.

2. ALL STROBES TO ALIGN VERTICALLY WITH RECEPTACLES AND/OR SWITCHES BELOW WHERE OCCURS.

3. ARCHITECT TO REVIEW ALL LIGHT/CEILING FIXTURE LOCATIONS PRIOR TO INSTALLATION.

4. INSTALL THE SUSPENDED CEILING GRID TO BE LEVEL WITHIN A TOLERANCE OF 1/8" IN 12'-0". ANCHOR AS REQUIRED.

5. ARCHITECT TO REVIEW LOCATIONS OF ALL SLOT DIFFUSERS, SPRINKLERS, SMOKE DETECTORS, ETC. IN GYP BD CEILINGS PRIOR TO INSTALLATION BY SHOP DRAWING REVIEW.

6. REFLECTED CEILING PLANS INDICATED CEILING TYPE AND DESIGN INTENT; REFER TO MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND ELECTRICAL DRAWINGS FOR ADDITIONAL WORK AND COORDINATE.

7. WHERE ACOUSTICAL PANELS ARE REQUIRED TO BE CUT, CUT THE PANELS TO MAINTAIN A SHARP AND NEAT EDGE.

8. ALTHOUGH SPRINKLER HEADS ARE NOT SHOWN, THE BUILDING IS FULLY SPRINKLERED. LOCATE SPRINKLER HEADS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.

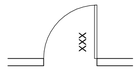
9. INSTALL LIGHT FIXTURES IN THE CENTER OF THE ACOUSTICAL CEILING PANEL AND/OR CENTERED IN THE ROOM AS INDICATED, UNO.

10. ALL ACOUSTICAL CEILING TILES TO BE INSTALLED CENTERED IN ROOMS, UNO.

11. REFER TO FINISH SCHEDULE FOR CEILING TYPES AND FINISHES.

GENERAL NOTES, LEGENDS AND SYMBOLS

LEGEND AND SYMBOLS



NEW DOOR AND TAG, SEE SHEET A-611 FOR DOOR SCHEDULE

EXISTING DOOR TO REMAIN

EXISTING PARTITION TO REMAIN

NEW GWB PARTITION

NEW CMU PARTITION

NEW CAST-IN-PLACE CONCRETE PARTITION

PARTITION TYPE TAG

TOILET ACCESSORY TAG

WINDOW TAG

LOUVER TAG

SEMI-RECESSED CABINET WITH FIRE EXTINGUISHER

BRACKET MOUNTED FIRE EXTINGUISHER

FLOOR DRAIN, SEE PLUMBING

CLEAN OUT, SEE PLUMBING

AREA DRAIN, SEE PLUMBING

DUAL HI-LO ELECTRIC WATER FOUNTAIN, SEE PLUMBING SCHEDULES FOR TYPE.

EXISTING ELECTRIC WATER FOUNTAIN, SEE PLUMBING SCHEDULES FOR TYPE.

ARCHITECTURAL

1. REFER TO DEMOLITION PLAN AND GENERAL NOTES SHEET AD-101; VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO START OF WORK. NOTIFY ARCHITECT AND OWNER IN WRITING OF ANY WORK DESCRIBED IN THE CONTRACT DOCUMENTS WHICH CANNOT BE PERFORMED DUE TO EXISTING CONDITIONS.

2. COORDINATE ALL CONSTRUCTION WITH APPROVED PHASING PLANS TO BE DEVELOPED BY THE CONTRACTOR.

3. CONTRACTOR TO PROVIDE AND COORDINATE TEMPORARY INTERIOR AND EXTERIOR BUILDING SIGNAGE WITH OWNER.

4. PRIOR TO LAYING OUT NEW WALLS, CONFIRM LOCATIONS OF EXISTING WALLS IN AREA OF WORK AND NOTIFY ARCHITECT IF THERE ARE DISCREPANCIES WITH FLOOR PLANS. ADDITIONAL DEMOLITION OR ADJUSTMENT TO FLOOR PLAN MAY BE REQUIRED TO ACCOMMODATE FOR AS-BUILT CONDITIONS.

5. SHORE AND BRACE ALL WORK TO REMAIN. COORDINATE ANY STRUCTURAL ADDITIONS OR MODIFICATIONS WITH THE STRUCTURAL DRAWINGS.

6. PRIOR TO PROCEEDING WITH ANY WORK WITHIN THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS. DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF EXISTING WORK WHERE EXISTING WORK IS MODIFIED TO ACCOMMODATE NEW CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF EXISTING WORK, WHICH ARE TO REMAIN.

7. FURNISHINGS AND EQUIPMENT IN ALL AREAS OF RENOVATION SHALL BE PROTECTED DURING CONSTRUCTION.

8. ALL CONSTRUCTION AND WORK SHOWN ON THE COMPLETE SET OF DRAWINGS IS ASSUMED TO BE NEW AND FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED NIC.

9. IF A CONFLICT EXISTS WITHIN THE DRAWINGS AND/OR SPECIFICATIONS THE MORE STRINGENT AND MORE COSTLY REQUIREMENT SHALL APPLY. ITEMS SHOWN ON DRAWINGS, BUT NOT SPECIFIED, SHALL APPLY AND BE FURNISHED AND INSTALLED BY THE CONTRACTOR. IF AN ITEM IS SHOWN ON THE DRAWINGS, BUT IS NOT INCLUDED IN THE SPECIFICATIONS, PROVIDE ITEM OF A QUALITY LEVEL CONSISTENT WITH THE GENERAL QUALITY LEVEL OF THE CONTRACT REQUIREMENTS. BRING CONFLICTS BETWEEN DRAWINGS AND SPECIFICATIONS TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY FOR CLARIFICATION.

10. WRITTEN INFORMATION TAKES GENERAL PRECEDENCE OVER DRAWING LINES. BRING CONFLICTS BETWEEN WRITTEN INFORMATION AND DRAWN LINES TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

11. IF AN AREA OR SPACE IS SHOWN, BUT IS NOT CLEARLY DEFINED OR INDICATED BY NOTES, PROVIDE THE SAME MATERIALS, FINISHES AND QUALITY OF CONSTRUCTION AS SCHEDULED OR DETAILED FOR AREAS OF SIMILAR USE ELSEWHERE IN THE WORK.

12. TYPICAL DETAILS THROUGHOUT THE DRAWING SET SHALL APPLY FOR ALL APPLICABLE CONDITIONS, EVEN IF NOT SPECIFICALLY SHOWN OR REFERENCED.

13. ALL APPURTENANCES BUILT INTO OR THROUGH WALLS, INCLUDING DOORS, WINDOWS, DUCTS, LOUVERS, GRILLES, PIPING, MECHANICAL WORK, ETC. SHALL FIT TIGHTLY AND BE THOROUGHLY SEALED AROUND PERIMETERS. USE FIRESTOPPING SYSTEMS THAT HAVE RATINGS THAT MEET REQUIREMENTS OF ASSEMBLIES BEING PENETRATED.

14. PROVIDE ADA-COMPLIANT TRANSITION STRIPS AT ALL CHANGES IN FLOOR ELEVATIONS AND CHANGES IN FLOOR FINISH MATERIAL.

15. REFER TO MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DESCRIPTIONS OF ACCESS PANELS, LOUVER OPENINGS, VENTILATORS, GRILLES, VALVE CABINETS, FIRE DAMPERS OR OTHER APPURTENANCES AFFECTING WALLS, CEILINGS OR FLOORS. PROVIDE NECESSARY LINTELS, SUPPORT AND ANCHORAGE. SEE STRUCTURAL DRAWINGS FOR LINTEL REQUIREMENTS.

16. EXISTING FIRE SPRINKLER AND FIRE ALARM SYSTEMS SHALL BE COORDINATED WITH TEMPORARY BARRIERS AND MAINTAINED DURING CONSTRUCTION.

17. ALL ABANDONED SLAB ON GRADE PENETRATIONS, UP TO 8" IN DIAMETER, SHALL BE INFILLED WITH NON-SHRINK GROUT, FULL THICKNESS AND FLUSH TO TOP OF OF EXISTING SLAB.

18. CONTRACTOR SHALL VERIFY EXISTING FLOOR ELEVATIONS PRIOR TO BEGINNING WORK.

19. ALL EXISTING SLABS ARE TO BE PREPPED FOR NEW FINISHES INCLUDING FLOOR LEVELING AS REQUIRED TO ACHIEVE FLAT SURFACE. THIS INCLUDES LOCATION OF COLD JOINTS WITH NEW SLAB. GRIND CONCRETE AS REQUIRED.

20. SEAL ALL PENETRATIONS IN AIR BARRIER CREATED BY THE VENEER ANCHORAGE FASTENERS SO A CONTINUOUS PLANE OF AIR-TIGHTNESS IS MAINTAINED.

AECOM

PROJECT

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Lic. No. 007490
5 May 2023
ARCHITECT

SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

SHEET TITLE

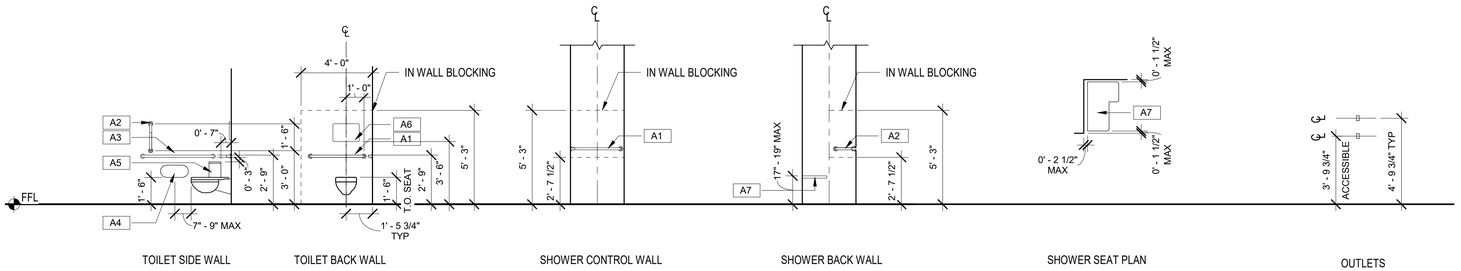
GENERAL NOTES, LEGENDS, & SYMBOLS

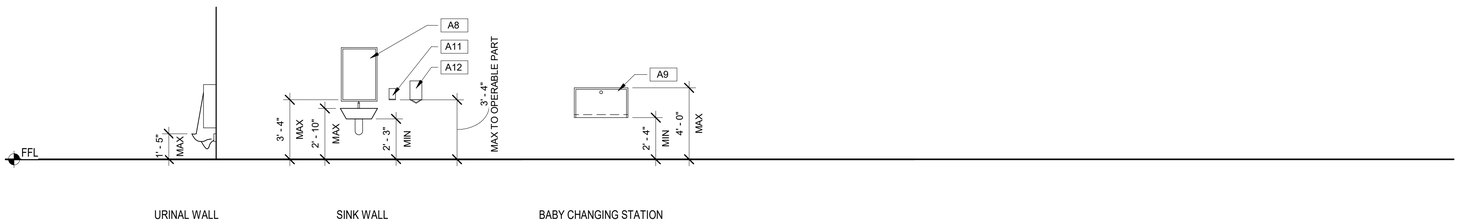
SHEET NUMBER

A-001

READY FOR CONSTRUCTION

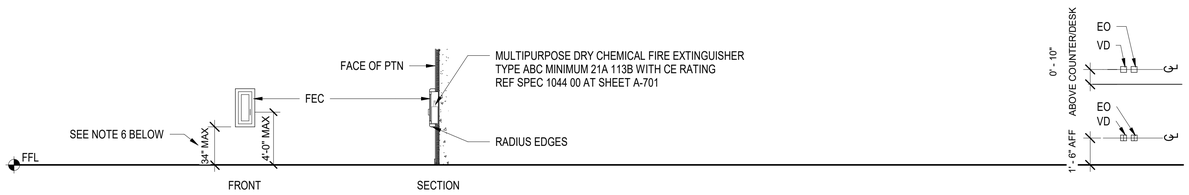
ACCESSIBLE MOUNTING HEIGHTS





ACCESSORY & EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING HEIGHT
A1	STRAIGHT GRAB BAR 36"	BOBRICK	B-9806 x 36	2'-10" TO CENTERLINE
A2	STRAIGHT GRAB BAR 18"	BOBRICK	B-9806 x 18	VERTICAL MOUNT, 40" MAX TO BOTTOM
A3	STRAIGHT GRAB BAR 48"	BOBRICK	B-9806 x 48	2'-10" TO CENTERLINE
A4	SURFACE MOUNT DUAL TOILET TISSUE DISPENSER	BOBRICK	B-2892	7"-9" FROM CENTERLINE TO EDGE OF SEAT, 18" MIN TO BOTTOM OF OPERABLE PART
A5	SURFACE MOUNT SANITARY NAPKIN DISPOSAL	BOBRICK	B-270	40" MAX TO TOP OF OPERABLE PART
A6	SURFACE MOUNT SEAT COVER DISPENSER	BOBRICK	B-221	40" MAX TO TOP OF OPERABLE PART
A7	FOLDING SHOWER SEAT	BOBRICK	B-5181	17"-19" TO SEAT SURFACE
A8	MIRROR 24"W x 36"H	BOBRICK	B-290 2436	40" MAX TO BOTTOM OF MIRRORED SURFACE
A9	FOLDING BABY CHANGING STATION	BOBRICK	KB200-SS	48" TO TOP MAX
A10	SURFACE MOUNT ROBE HOOK	BOBRICK	B-9542	48" MAX TO TOP
A11	SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-2111	40" MAX TO TOP OF OPERABLE PART
A12	SURFACE MOUNT PAPER TOWEL DISPENSER	BOBRICK	B-262	40" MAX TO TOP OF OPERABLE PART
A13	SHOWER CURTAIN AND ROD	BOBRICK	B-6107 SERIES & 204 SERIES	75"-77" TO CENTER OF BAR
A14	30" x 18" LOCKER	DEBOURGH	APEX 72"	FLOOR MOUNTED
A14.1	30" x 18" LOCKER - ADA	DEBOURGH	APEX 72"	FLOOR MOUNTED
A15	24" x 24" LOCKER	DEBOURGH	APEX 72"	FLOOR MOUNTED
A15.1	24" x 24" LOCKER - ADA	DEBOURGH	APEX 72"	FLOOR MOUNTED
A16	BENCH	SCRANTON PRODUCTS	TUFFTEC LOCKER ROOM BENCH, FINISH: BLUEBERRY	FLOOR MOUNTED
A17	TRASH CAN	RUBBERMAID	FG817088BLA	-
A18	SURFACE MOUNT WALL SHELF	BOBRICK	B-683	48" MAX TO TOP
A19	WALL MOUNT ADA BENCH	GLOBAL INDUSTRIAL	T9F269868/T9F269865SS	18" TO SEAT TOP



DESCRIPTION	FIRE EQUIP SPECIALTIES	OUTLETS
NOTES	1. FEC ARE TO BE THE SEMI RECESSED TYPE. SIZE CABINET TO ACCOMMODATE SPECIFIED EXTINGUISHER. PROJECT CABINET FROM FACE OF PARTITION AS REQUIRED TO ALLOW CONCRETE STRUCTURE TO REMAIN UNINTERRUPTED. 2. PROVIDE EXTINGUISHER AT EACH FIRE EXTINGUISHER CABINET, UNO. 3. BRACKET MOUNT FIRE EXTINGUISHERS AT MECHANICAL SPACES AND ELECTRICAL ROOMS. CABINETS ARE NOT REQUIRED. 4. MOUNT BRACKETS FOR WALL MOUNTED FIRE EXTINGUISHERS AT 40" ABOVE FFL, UNO. 5. PROVIDE CABINET LISTED TO MAINTAIN THE FIRE RATING OF THE WALL WHERE A FIRE RATING IS SHOWN ON THE LIFE SAFETY DRAWINGS AND THE DESIGN CALLS FOR SEMI-RECESSED CABINET. 6. EXTINGUISHER HANDLE SHALL BE LOCATED MAXIMUM 48" AFF.	1. MOUNT HEIGHTS SHOWN FOR ABOVE FLOOR AND ABOVE COUNTER, UNO. 2. ELECTRICAL OUTLET (EO) 3. VOICE/DATA OUTLET (VD)

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PROJECT

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REGISTRATION

COMMONWEALTH OF VIRGINIA
RICHARD THRASHER
Lic. No. 007490
5 May 2023
ARCHITECT

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

ACCESSORY SCHEDULE & MOUNTING HEIGHTS

SHEET NUMBER

A-002

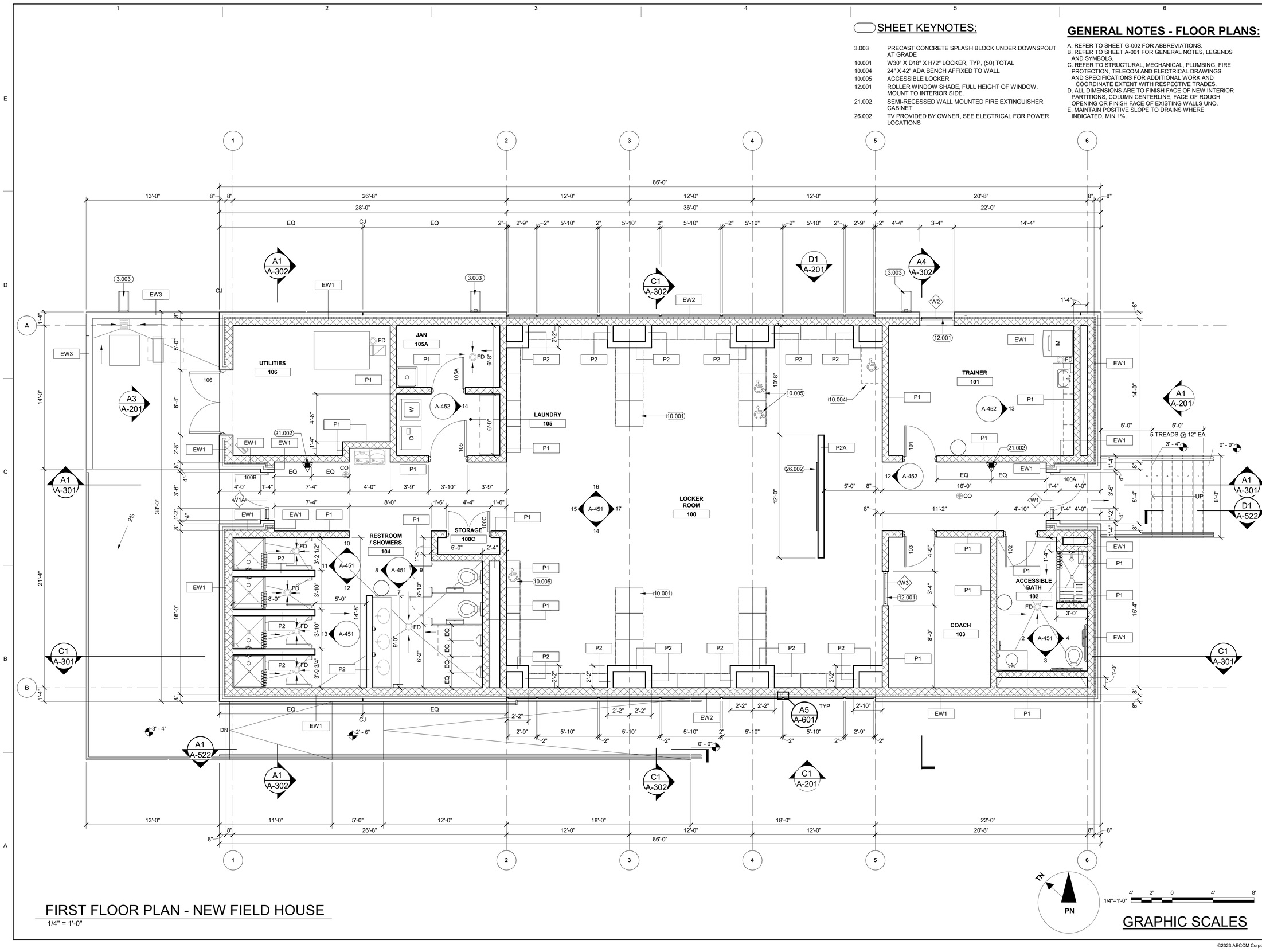
READY FOR CONSTRUCTION

SHEET KEYNOTES:

3.003	PRECAST CONCRETE SPLASH BLOCK UNDER DOWNSPOUT AT GRADE
10.001	W30" X D18" X H72" LOCKER, TYP, (50) TOTAL
10.004	24" X 42" ADA BENCH AFFIXED TO WALL
10.005	ACCESSIBLE LOCKER
12.001	ROLLER WINDOW SHADE, FULL HEIGHT OF WINDOW. MOUNT TO INTERIOR SIDE.
21.002	SEMI-RECESSED WALL MOUNTED FIRE EXTINGUISHER CABINET
26.002	TV PROVIDED BY OWNER, SEE ELECTRICAL FOR POWER LOCATIONS

GENERAL NOTES - FLOOR PLANS:

A. REFER TO SHEET G-002 FOR ABBREVIATIONS.
B. REFER TO SHEET A-001 FOR GENERAL NOTES, LEGENDS AND SYMBOLS.
C. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK AND COORDINATE EXTENT WITH RESPECTIVE TRADES.
D. ALL DIMENSIONS ARE TO FINISH FACE OF NEW INTERIOR PARTITIONS, COLUMN CENTERLINE, FACE OF ROUGH OPENING OR FINISH FACE OF EXISTING WALLS UNO.
E. MAINTAIN POSITIVE SLOPE TO DRAINS WHERE INDICATED, MIN 1%.



FIRST FLOOR PLAN - NEW FIELD HOUSE

1/4" = 1'-0"

GRAPHIC SCALES

1/4"=1'-0" 4' 2' 0 4' 8'

TN PN

READY FOR CONSTRUCTION

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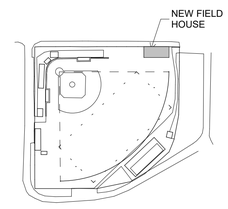
KEY PLAN



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I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

FLOOR PLAN - NEW FIELD HOUSE

SHEET NUMBER

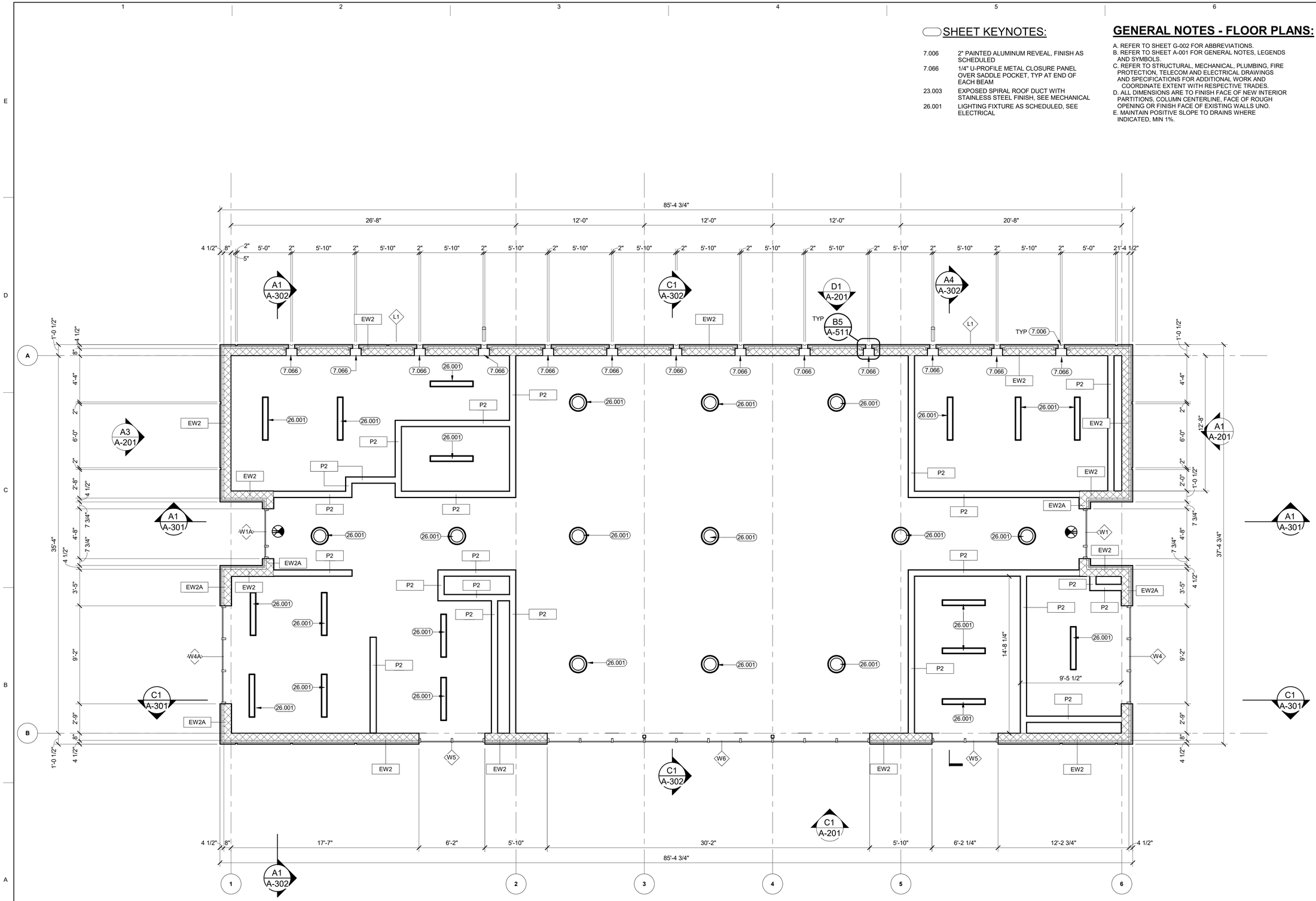
A-101

SHEET KEYNOTES:

7.006	2" PAINTED ALUMINUM REVEAL, FINISH AS SCHEDULED
7.066	1/4" U-PROFILE METAL CLOSURE PANEL OVER SADDLE POCKET, TYP AT END OF EACH BEAM
23.003	EXPOSED SPIRAL ROOF DUCT WITH STAINLESS STEEL FINISH, SEE MECHANICAL
26.001	LIGHTING FIXTURE AS SCHEDULED, SEE ELECTRICAL

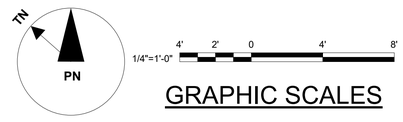
GENERAL NOTES - FLOOR PLANS:

A. REFER TO SHEET G-002 FOR ABBREVIATIONS.
B. REFER TO SHEET A-001 FOR GENERAL NOTES, LEGENDS AND SYMBOLS.
C. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK AND COORDINATE EXTENT WITH RESPECTIVE TRADES.
D. ALL DIMENSIONS ARE TO FINISH FACE OF NEW INTERIOR PARTITIONS, COLUMN CENTERLINE, FACE OF ROUGH OPENING OR FINISH FACE OF EXISTING WALLS UNO.
E. MAINTAIN POSITIVE SLOPE TO DRAINS WHERE INDICATED, MIN 1%.



CLERESTORY PLAN @ 9'-0" AFF - NEW FIELD HOUSE

1/4" = 1'-0"



1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

READY FOR CONSTRUCTION

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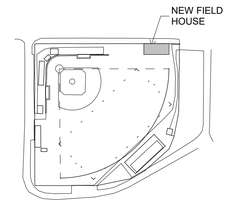

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PROJECT NUMBER

60699711

SHEET TITLE

CLERESTORY PLAN - NEW FIELD HOUSE

SHEET NUMBER

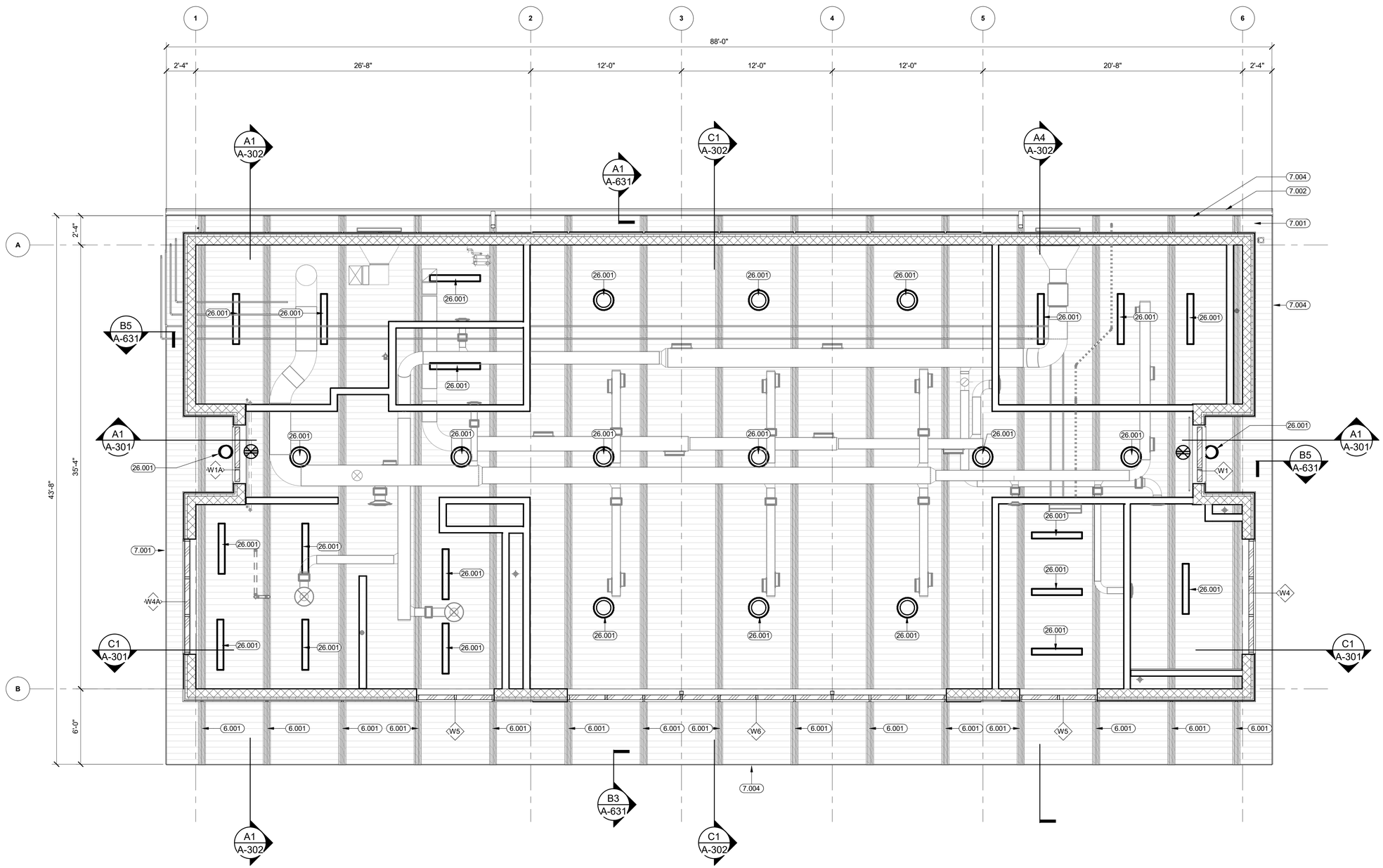
A-102

SHEET KEYNOTES:

6.001	TAPERED STRUCTURAL GLULAM BEAM WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE, SEE STRUCTURAL
7.001	ROOF TYPE 1: STANDING SEAM METAL ROOF, ZINC WITH INTEGRAL COLOR PER FINISH SCHEDULE
7.002	6"X6" PREFINISHED ALUMINUM GUTTER WITH BEVELED PROFILE
7.004	PREFINISHED ZINC FASCIA PANEL
26.001	LIGHTING FIXTURE AS SCHEDULED, SEE ELECTRICAL

GENERAL NOTES - RCP:

A. REFER TO SHEET G-002 FOR ABBREVIATIONS.
B. REFER TO SHEET A-001 FOR GENERAL NOTES, LEGENDS AND SYMBOLS.
C. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK AND COORDINATE EXTENT WITH RESPECTIVE TRADES.
D. ALL DIMENSIONS ARE TO EXTERIOR FACE OF CMU, FINISH FACE OF NEW INTERIOR PARTITIONS, COLUMN CENTERLINE, FACE OF ROUGH OPENING OR FINISH FACE OF EXISTING WALLS UNO.
E. FINISH CEILING WITH WS-1, REFER TO INTERIOR FINISH SCHEDULE ON SHEET A-411.



REFLECTED CEILING PLAN - NEW FIELD HOUSE

1/4" = 1'-0"

TN
PN

1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

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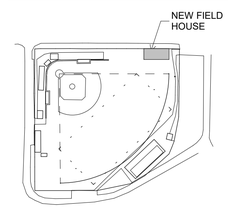

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I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

SHEET TITLE

REFLECTED CEILING PLAN - NEW FIELD HOUSE

SHEET NUMBER

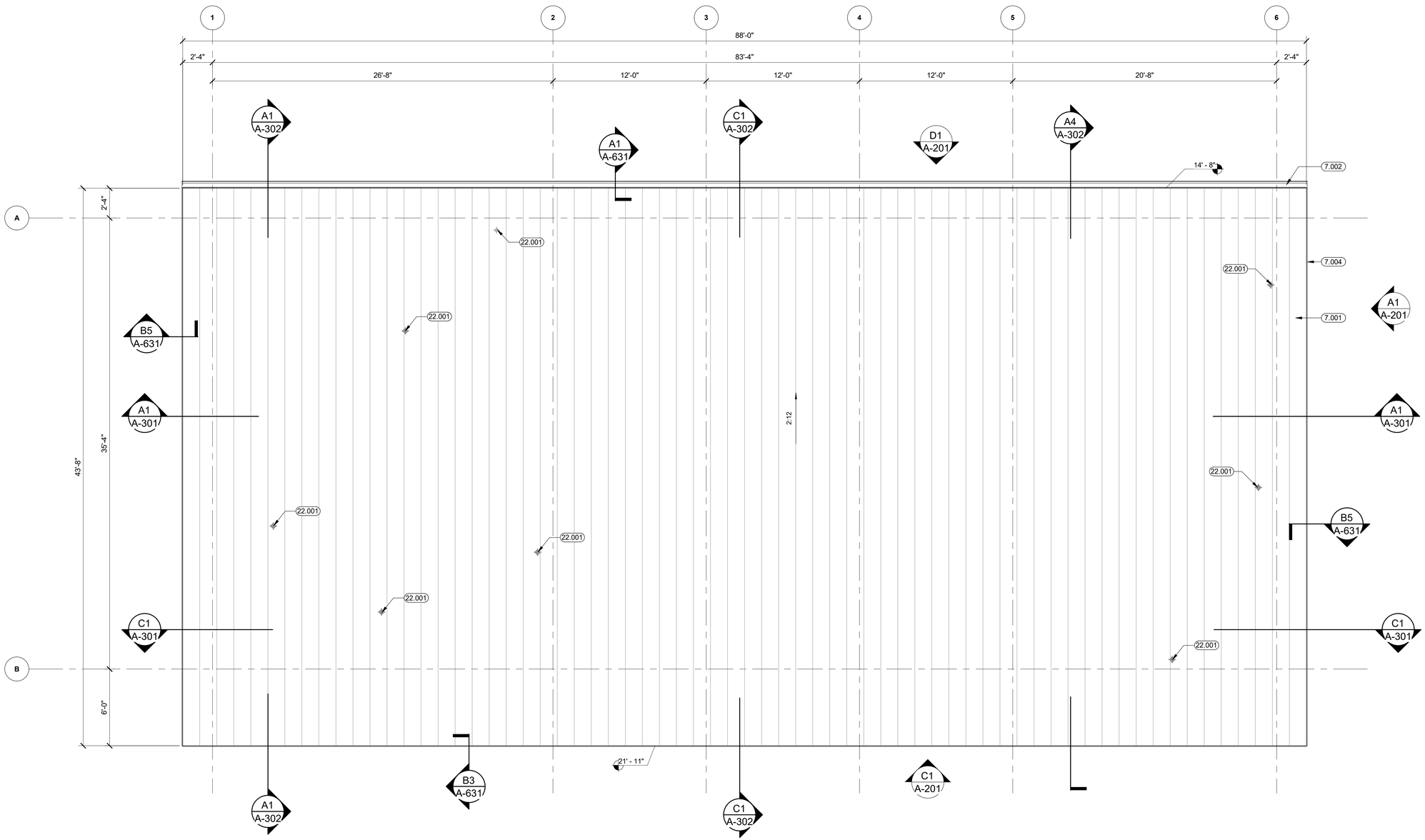
A-103

SHEET KEYNOTES:

7.001	ROOF TYPE 1: STANDING SEAM METAL ROOF, ZINC WITH INTEGRAL COLOR PER FINISH SCHEDULE
7.002	6"X6" PREFINISHED ALUMINUM GUTTER WITH BEVELED PROFILE
7.004	PREFINISHED ZINC FASCIA PANEL
22.001	VENT THROUGH ROOF, REFER TO PLUMBING DRAWINGS. SEE DETAIL C3 ON SHEET A-631 FOR PENETRATIONS THROUGH ROOF TYPE 1. SEE DETAIL C5 ON SHEET A-631 FOR PENETRATIONS THROUGH ROOF TYPE 2.

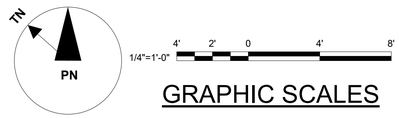
GENERAL NOTES - ROOF PLANS:

A. REFER TO SHEET G-002 FOR ABBREVIATIONS.
B. REFER TO SHEET A-001 FOR GENERAL NOTES, LEGENDS AND SYMBOLS.
C. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK AND COORDINATE EXTENT WITH RESPECTIVE TRADES.
D. ALL DIMENSIONS ARE TO FINISH FACE OF NEW INTERIOR PARTITIONS, COLUMN CENTERLINE, FACE OF ROUGH OPENING OR FINISH FACE OF EXISTING WALLS UNO.



ROOF PLAN - NEW FIELD HOUSE

1/4" = 1'-0"



GRAPHIC SCALES

READY FOR CONSTRUCTION

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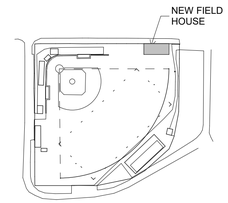

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PROJECT NUMBER

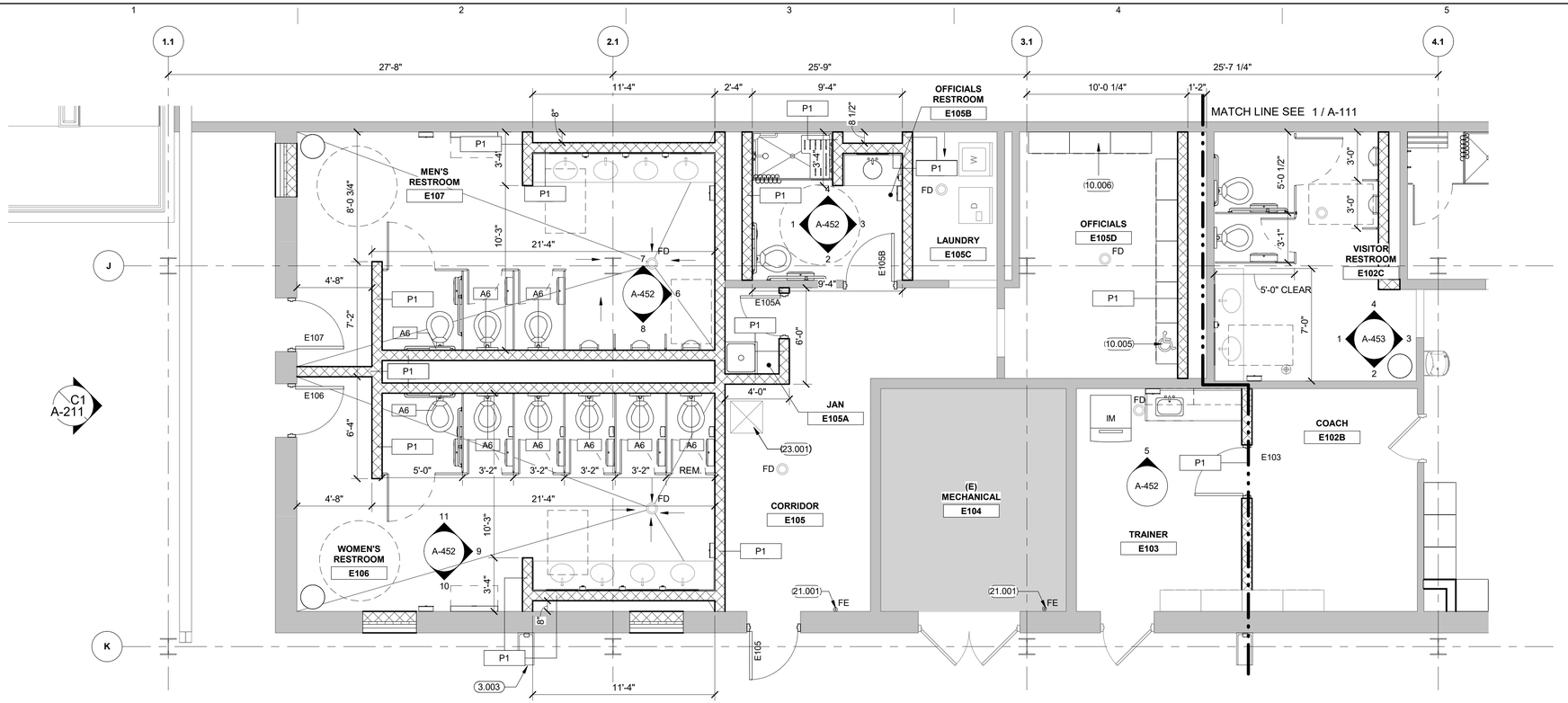
60699711

SHEET TITLE

ROOF PLAN - NEW FIELD HOUSE

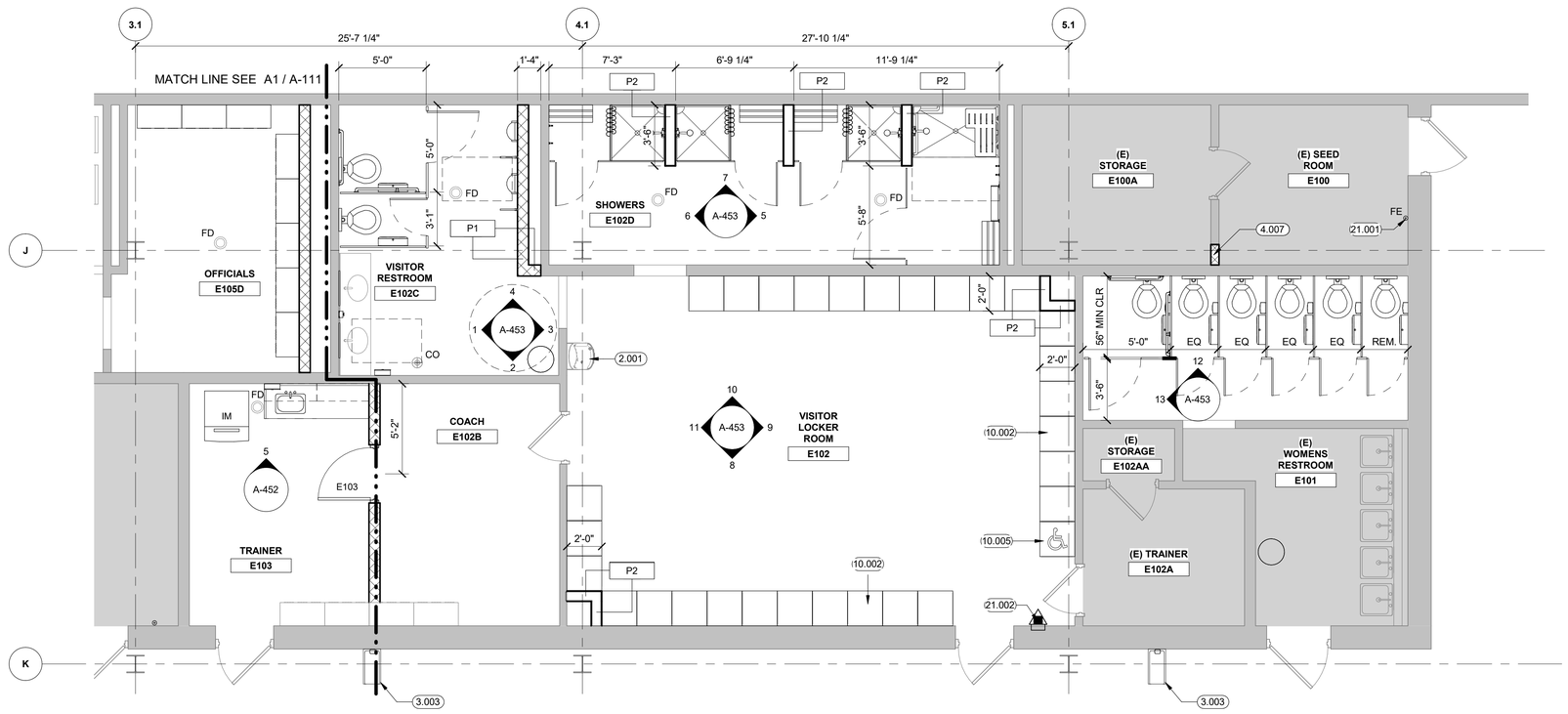
SHEET NUMBER

A-104



FLOOR PLAN - EXISTING FIELD HOUSE - AREA A

1/4" = 1'-0"



FLOOR PLAN - EXISTING FIELD HOUSE - AREA B

1/4" = 1'-0"

GRAPHIC SCALES

GENERAL NOTES - EXISTING FLOOR PLANS:

A. REFER TO SHEET G-002 FOR ABBREVIATIONS.
B. REFER TO SHEET A-001 FOR GENERAL NOTES, LEGENDS AND SYMBOLS.
C. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK AND COORDINATE EXTENT WITH RESPECTIVE TRADES.
D. ALL DIMENSIONS ARE TO FINISH FACE OF NEW INTERIOR PARTITIONS, COLUMN CENTERLINE, FACE OF ROUGH OPENING OR FINISH FACE OF EXISTING WALLS UNO
E. ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE EXISTING LEVEL OF PROTECTION.
F. ALL NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS, AND SPACES SHALL COMPLY WITH THE REQUIREMENTS OF THE VCC IN ACCORDANCE WITH VEBC §603.3
G. MAINTAIN POSITIVE SLOPE TO DRAINS WHERE INDICATED, MIN 0.5%.

SHEET KEYNOTES:

2.001	PROTECT IN PLACE ETR WATER FOUNTAIN
3.003	PRECAST CONCRETE SPLASH BLOCK UNDER DOWNSPOUT AT GRADE
4.007	INFILL OPENING TO MATCH EXISTING WALL CONSTRUCTION
10.002	W24" X D24" X H72" LOCKER, TYP, (30) TOTAL
10.005	ACCESSIBLE LOCKER
10.006	REINSTALL (8) EXISTING LOCKERS
21.001	WALL MOUNTED FIRE EXTINGUISHER
21.002	SEMI-RECESSED WALL MOUNTED FIRE EXTINGUISHER CABINET
23.001	EXISTING ROOF DUCT ABOVE, SEE MECHANICAL

LEGEND:

SPACE NOT IN SCOPE

AECOM

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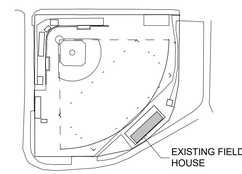

SUBMISSION

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PROJECT NUMBER

60699711

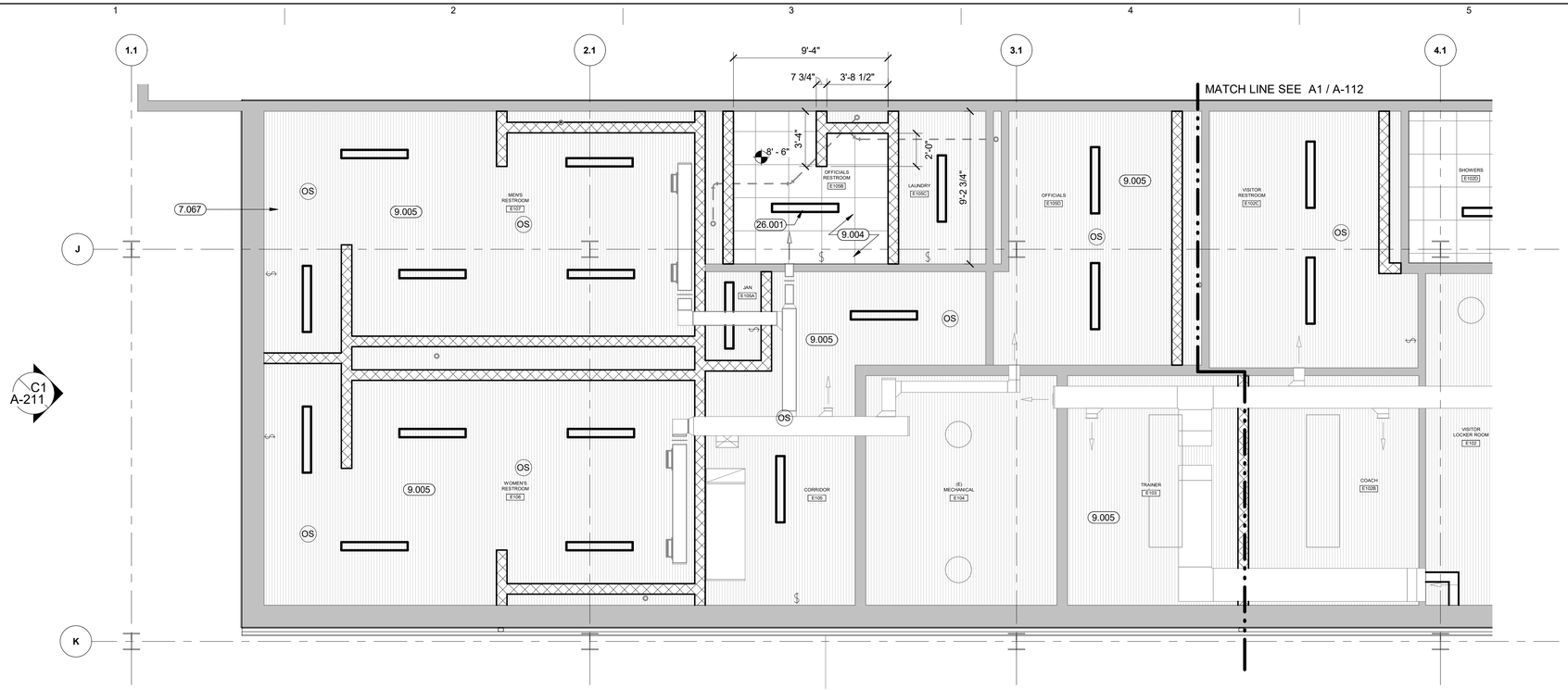
SHEET TITLE

FLOOR PLAN - EXISTING FIELD HOUSE

SHEET NUMBER

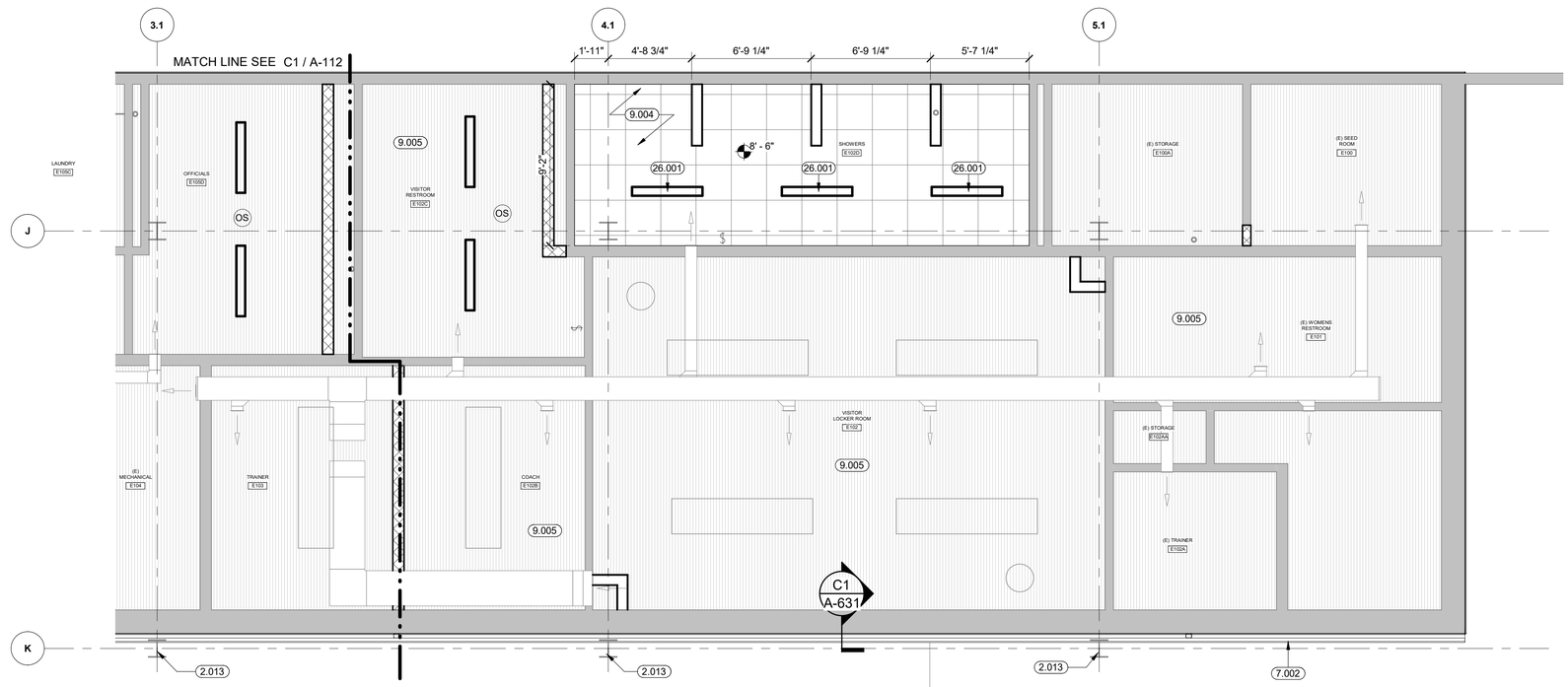
A-111

READY FOR CONSTRUCTION



REFLECTED CEILING PLAN - EXISTING FIELD HOUSE - AREA A

1/4" = 1'-0"



REFLECTED CEILING PLAN - EXISTING FIELD HOUSE - AREA B

1/4" = 1'-0"

GENERAL NOTES - RCP:

A. REFER TO SHEET G-002 FOR ABBREVIATIONS.
B. REFER TO SHEET A-001 FOR GENERAL NOTES, LEGENDS AND SYMBOLS.
C. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK AND COORDINATE EXTENT WITH RESPECTIVE TRADES.
D. ALL DIMENSIONS ARE TO EXTERIOR FACE OF CMU, FINISH FACE OF NEW INTERIOR PARTITIONS, COLUMN CENTERLINE, FACE OF ROUGH OPENING OR FINISH FACE OF EXISTING WALLS UNO.
E. FINISH CEILING WITH WS-1, REFER TO INTERIOR FINISH SCHEDULE ON SHEET A-411.

SHEET KEYNOTES:

2.013	PROTECT IN PLACE ETR STEEL BLEACHER COLUMN
7.002	6"X6" PREFINISHED ALUMINUM GUTTER WITH BEVELED PROFILE
7.067	.060 MECHANICALLY FASTENED FIRESTONE TPO ROOF SYSTEM ON 1/2" GLASS-MAT COVER BOARD ON R=30 CONTINUOUS POLYISOCYANURATE RIGID ROOF INSULATION ON VAPOR BARRIER ON 1/2" GLASS-MAT SHEATHING ON EXISTING METAL DECK.
9.004	2X2 MOISTURE RESISTENT ACOUSTIC CEILING TILE SYSTEM
9.005	OPEN TO ABOVE METAL DECKING, SEE STRUCTURAL
26.001	LIGHTING FIXTURE AS SCHEDULED, SEE ELECTRICAL

EXIST TN

PN

1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

READY FOR CONSTRUCTION

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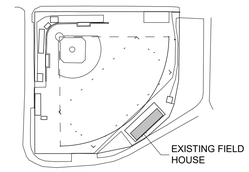
KEY PLAN



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PROJECT NUMBER

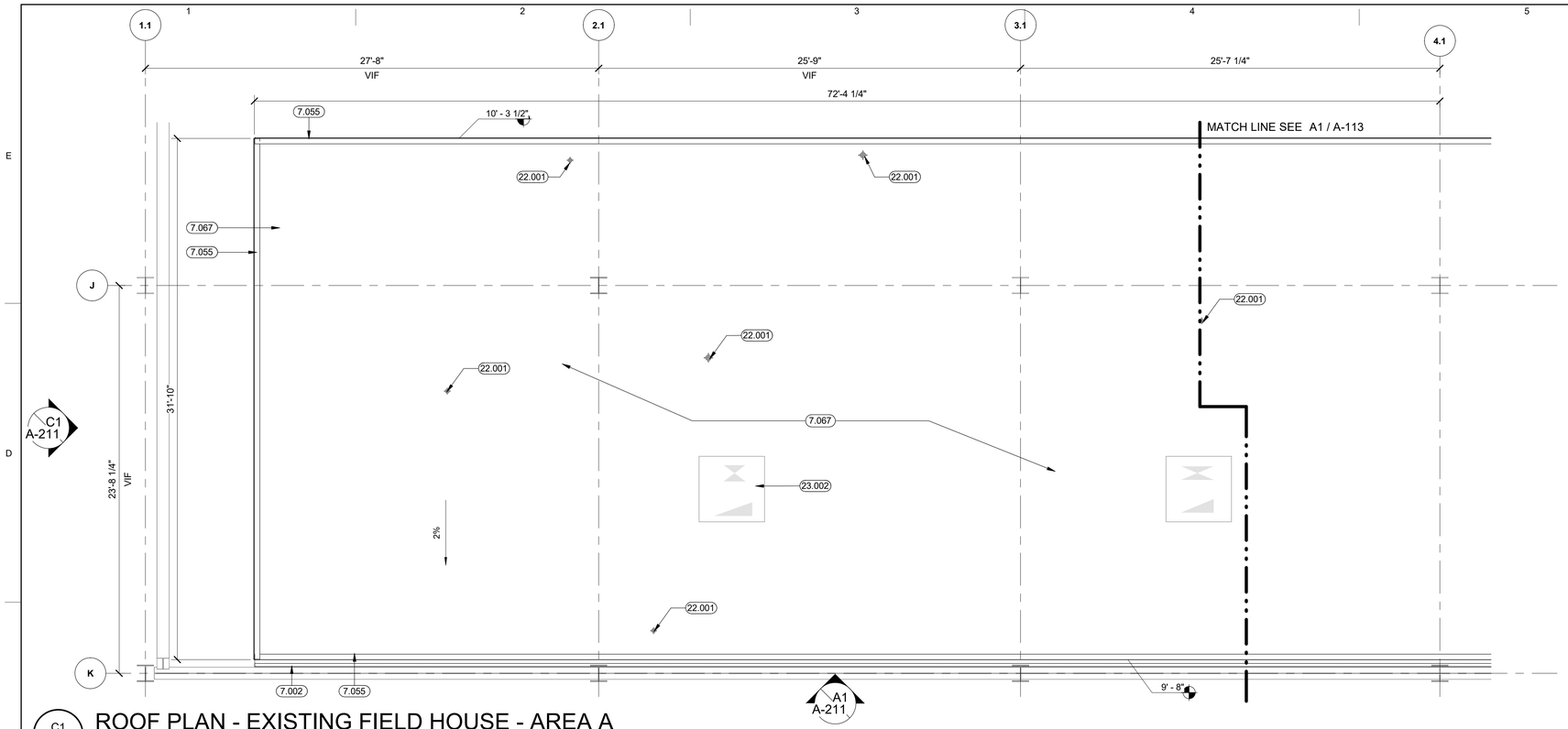
60699711

SHEET TITLE

REFLECTED CEILING PLAN - EXISTING FIELD HOUSE

SHEET NUMBER

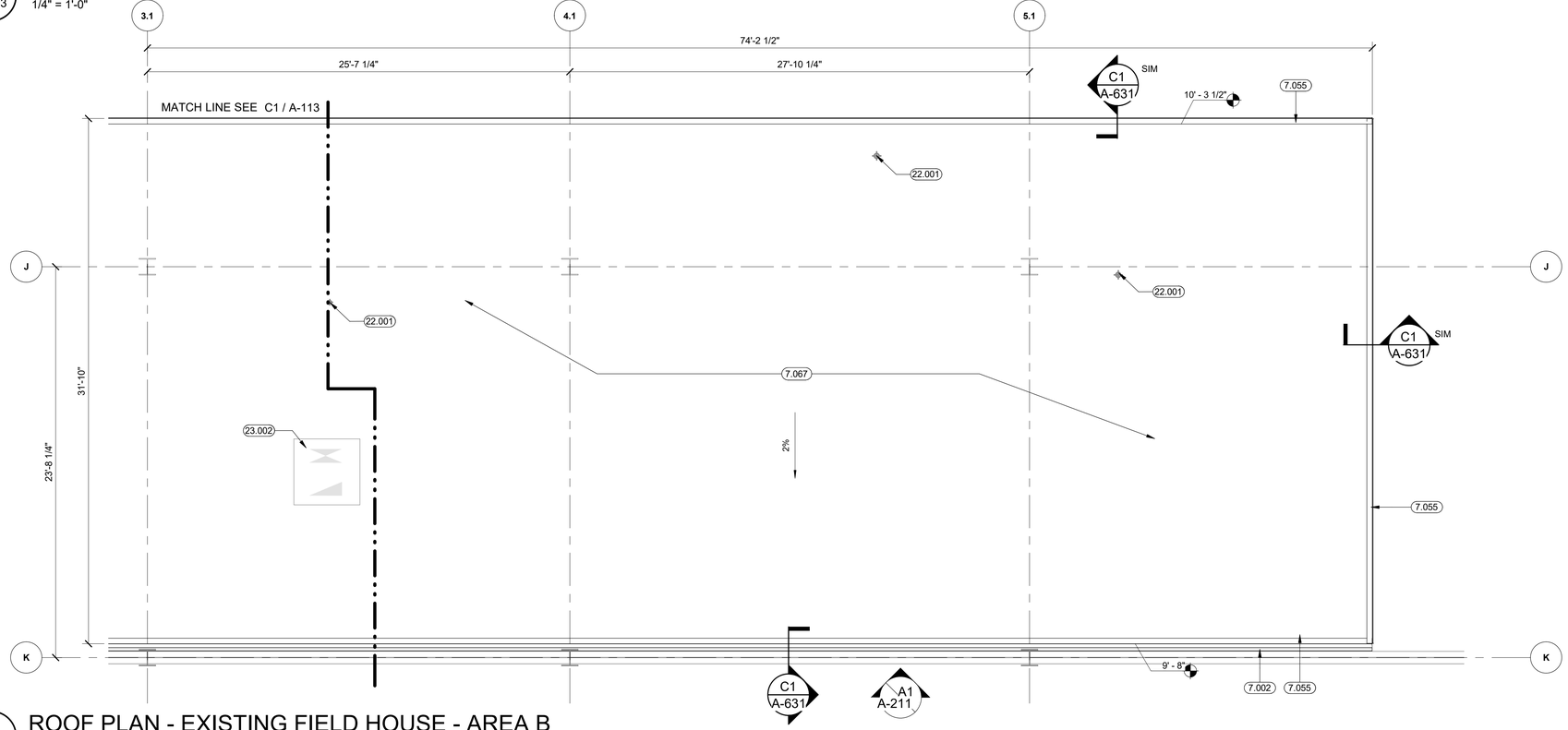
A-112



C1 A-113

ROOF PLAN - EXISTING FIELD HOUSE - AREA A

1/4" = 1'-0"



A1 A-113

ROOF PLAN - EXISTING FIELD HOUSE - AREA B

1/4" = 1'-0"

GENERAL NOTES - ROOF PLANS:

A. REFER TO SHEET G-002 FOR ABBREVIATIONS.
B. REFER TO SHEET A-001 FOR GENERAL NOTES, LEGENDS AND SYMBOLS.
C. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK AND COORDINATE EXTENT WITH RESPECTIVE TRADES.
D. ALL DIMENSIONS ARE TO FINISH FACE OF NEW INTERIOR PARTITIONS, COLUMN CENTERLINE, FACE OF ROUGH OPENING OR FINISH FACE OF EXISTING WALLS UNO.

SHEET KEYNOTES:

7.002	6"X6" PREFINISHED ALUMINUM GUTTER WITH BEVELED PROFILE
7.055	PREFINISHED METAL FASCIA / EAVE TRIM WITH HEMMED DRIP EDGE
7.067	.060 MECHANICALLY FASTENED FIRESTONE TPO ROOF SYSTEM ON 1/2" GLASS-MAT COVER BOARD ON R=30 CONTINUOUS POLYISOCYANURATE RIGID ROOF INSULATION ON VAPOR BARRIER ON 1/2" GLASS-MAT SHEATHING ON EXISTING METAL DECK.
22.001	VENT THROUGH ROOF, REFER TO PLUMBING DRAWINGS. SEE DETAIL C3 ON SHEET A-631 FOR PENETRATIONS THROUGH ROOF TYPE 1. SEE DETAIL C5 ON SHEET A-631 FOR PENETRATIONS THROUGH ROOF TYPE 2.
23.002	MECHANICAL EQUIPMENT AS SCHEDULED, SEE MECHANICAL

SPECIFICATION (SEE SHEET A-701 FOR ADDITIONAL SPECIFICATIONS)

SECTION 07 54 23 THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING

A. MATERIALS:
1. LOW-EMITTING ADHESIVES AND SEALANTS.
2. TPO ROOFING: ASTM D6878/D6878M, INTERNALLY FABRIC- OR SCRIM REINFORCED TPO SHEET.
3. SHEET FLASHING: SAME AS TPO SHEET.
4. SUBSTRATE BOARD: 1/2" GLASS-MAT, WATER RESISTANT GYPSUM SUBSTRATE, ASTM C1177/C1177M.
5. VAPOR RETARDER: POLYETHYLENE FILM, ASTM D 4397, 6-MILS-(0.15-MM-) THICK.
6. ROOF INSULATION: POLYISOCYANURATE, ASTM C 1289, TYPE II, CLASS 1 OR 2 FELT OR GLASS-FIBER MAT, GRADE 2.
7. COVER BOARD: 1/2" GLASS-MAT, WATER RESISTANT GYPSUM SUBSTRATE.
8. WARRANTY: MANUFACTURER'S MATERIAL AND WORKMANSHIP 20 YEARS. INSTALLERS WARRANTY: 2 YEARS.

B. INSTALLATION:
1. ROOF INSULATION: MECHANICALLY FASTENED.
2. MEMBRANE ROOFING: MECHANICALLY FASTENED.

EXIST TN

PN

4' 2' 0 4' 8'
1/4"=1'-0"

GRAPHIC SCALES

READY FOR CONSTRUCTION

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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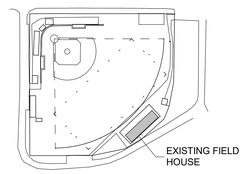
REGISTRATION

COMMONWEALTH OF VIRGINIA
RICHARD THRASHER
Lic. No. 007490
5 May 2023
ARCHITECT

KEY PLAN



SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

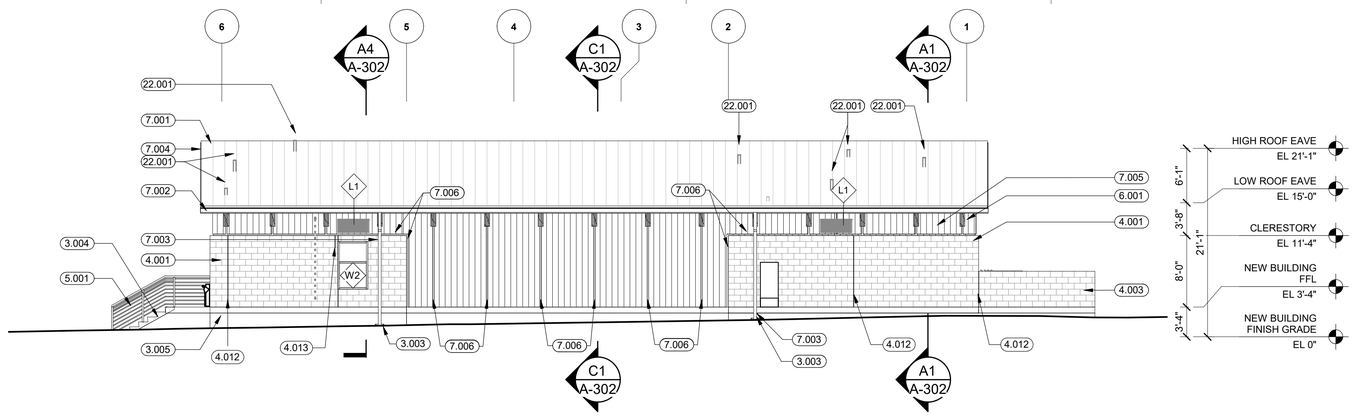
60699711

SHEET TITLE

ROOF PLAN - EXISTING FIELD HOUSE

SHEET NUMBER

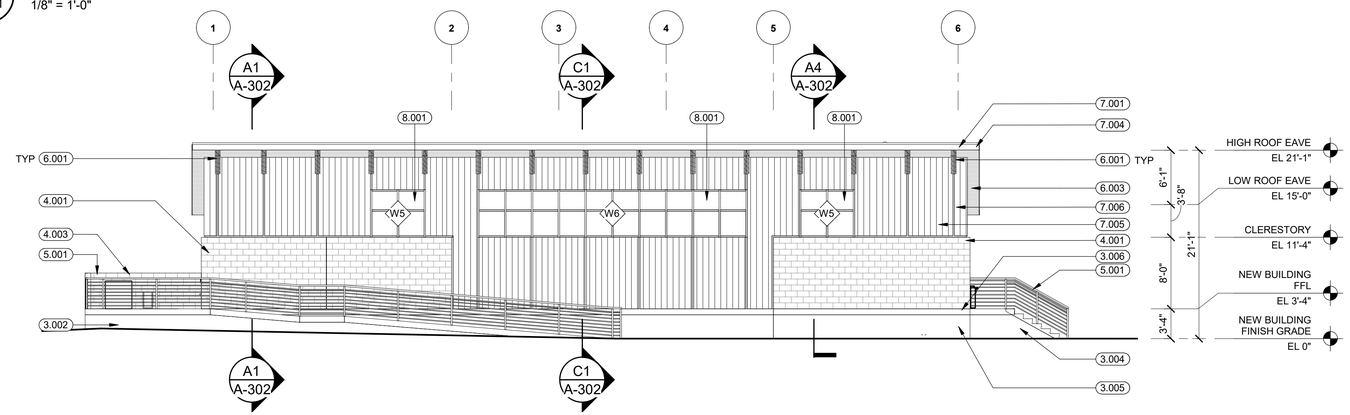
A-113



D1 A-201

ELEVATION - NORTH

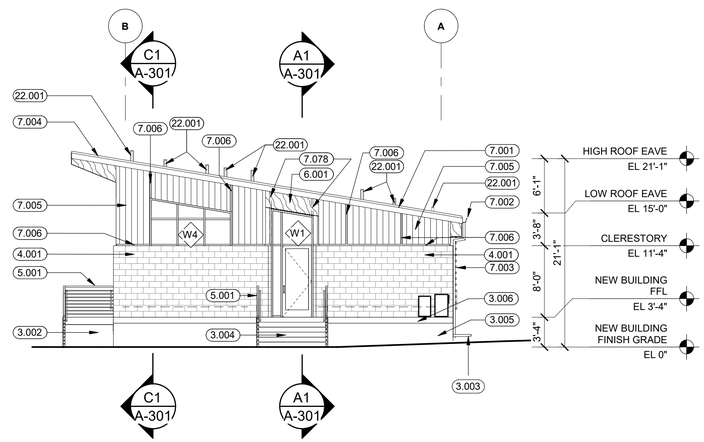
1/8" = 1'-0"



C1 A-201

ELEVATION - SOUTH

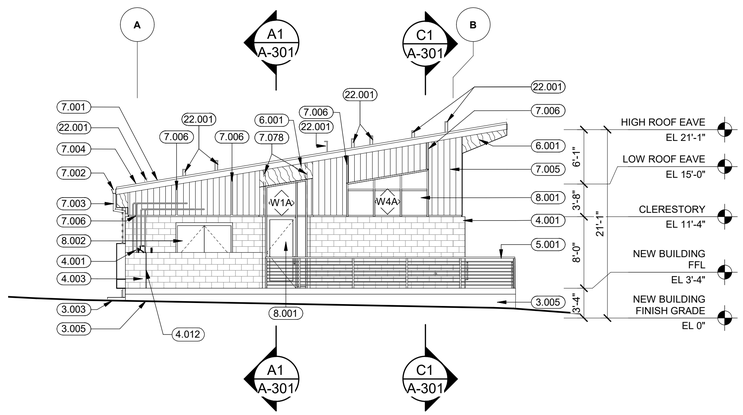
1/8" = 1'-0"



A1 A-201

ELEVATION - EAST

1/8" = 1'-0"



A3 A-201

ELEVATION - WEST

1/8" = 1'-0"

EXTERIOR FINISH LEGEND	
ITEM	**FINISH / COLOR**
CAST-IN-PLACE CONCRETE	H&C WATER BASED SEMI-TRANSPARENT STAIN, ARCTIC STONE
SPLIT-FACE MASONRY VENEER (RUNNING BOND)	BOXLEY 303. MORTAR -TBD.
SPLIT FACE MASONRY BLOCK	BOXLEY 303. MORTAR -TBD.
WOOD ROOF DECKING	WOOD TYPE TO MATCH TRESPA NW26 CORE ASH MATT
STRUCTURAL GLUED-LAMINATED BEAM	WOOD TYPE TO MATCH TRESPA NW26 CORE ASH MATT
EXTERIOR GLAZING	VITRO SOLARBAN 60 (2) OPTIGRAY + CLEAR GLASS INSULATING GLASS UNIT
WINDOWS (STOREFRONT AND CURTAIN WALL) AND ALUMINUM ENTRANCES FRAME COLOR	SHERWIN WILLIAMS 2808 ROOKWOOD DARK BROWN
EXTERIOR DOORS AND FRAMES	SHERWIN WILLIAMS 2808 ROOKWOOD DARK BROWN
METAL GUARDRAILS AND HANDRAILS	IMETCO CHESNUT
METAL WALL LOUVERS	IMETCO CHESNUT
TRIM - FASCIA, GUTTERS, DOWNSPOUTS	IMETCO CHESNUT
STANDING SEAM ROOFING PANELS	IMETCO CHESNUT
HIGH PRESSURE LAMINATE PANEL CLADDING SYSTEM	TRESPA METEON NW31 WESTERN RED CEDAR MATT
NOTES:	
1. ALL COLORS TO BE APPROVED BY AECOM ARCHITECTS	

SHEET KEYNOTES:

3.002	CONCRETE ACCESSIBLE RAMP WITH INTEGRAL COLOR, SEE STRUCTURAL
3.003	PRECAST CONCRETE SPLASH BLOCK UNDER DOWNSPOUT AT GRADE
3.004	CONCRETE STAIR WITH INTEGRAL COLOR, SEE STRUCTURAL
3.005	CONCRETE FOUNDATION WALL WITH INTEGRAL COLOR, SEE STRUCTURAL
3.006	2" CONCRETE REVEAL, SEE STRUCTURAL
4.001	SPLIT FACE MASONRY VENEER WITH INTEGRAL COLOR, FINISH AS SCHEDULED
4.003	SPLIT FACE MASONRY BLOCK WITH INTEGRAL COLOR, FINISH AS SCHEDULED
4.012	MASONRY CONTROL JOINT
4.013	MASONRY CONTROL JOINT, ALIGN MASONRY CONTROL JOINT WITH END OF LINTEL
5.001	GALVANIZED STEEL HANDRAIL AND GUARDRAILS, FINISH AS SCHEDULED
6.001	TAPERED STRUCTURAL GLULAM BEAM WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE, SEE STRUCTURAL
6.003	1 1/2" X 6" TONGUE AND GROOVE STRUCTURAL WOOD DECKING WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE
7.001	ROOF TYPE 1: STANDING SEAM METAL ROOF, ZINC WITH INTEGRAL COLOR PER FINISH SCHEDULE
7.002	6"X6" PREFINISHED ALUMINUM GUTTER WITH BEVELED PROFILE
7.003	3"X4" PREFINISHED ALUMINUM DOWNSPOUT
7.004	PREFINISHED ZINC FASCIA PANEL
7.005	HIGH PRESSURE LAMINATE PANEL CLADDING SYSTEM WITH ARCHITECTURAL WOOD FINISH AS SCHEDULED
7.006	2" PAINTED ALUMINUM REVEAL, FINISH AS SCHEDULED
7.078	REVEAL CONTINUES BEHIND GLULAM BEAM
8.001	PAINTED ALUMINUM FRAME STOREFRONT CLERESTORY W/ LOW "E" TINTED INSULATED GLASS (GL-1)
8.002	PAINTED HOLLOW METAL DOOR FRAME, FINISH AS SCHEDULED, SEE DOOR SCHEDULE AND DETAILS
22.001	VENT THROUGH ROOF, REFER TO PLUMBING DRAWINGS. SEE DETAIL C3 ON SHEET A-631 FOR PENETRATIONS THROUGH ROOF TYPE 1. SEE DETAIL C5 ON SHEET A-631 FOR PENETRATIONS THROUGH ROOF TYPE 2.

8' 4' 0 8' 16'

1/8"=1'-0"

GRAPHIC SCALES

READY FOR CONSTRUCTION

AECOM

PROJECT

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Lic. No. 007490
5 May 2023
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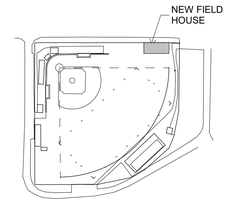
KEY PLAN



SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

BUILDING ELEVATIONS - NEW FIELD HOUSE

SHEET NUMBER

A-201

EXTERIOR FINISH LEGEND

ITEM	FINISH / COLOR
CAST-IN-PLACE CONCRETE	H&C WATER BASED SEMI-TRANSPARENT STAIN, ARCTIC STONE
SPLIT-FACE MASONRY VENEER (RUNNING BOND)	BOXLEY 303. MORTAR -TBD.
SPLIT FACE MASONRY BLOCK	BOXLEY 303. MORTAR -TBD.
WOOD ROOF DECKING	WOOD TYPE TO MATCH TRESPA NW26 CORE ASH MATT
STRUCTURAL GLUED-LAMINATED BEAM	WOOD TYPE TO MATCH TRESPA NW26 CORE ASH MATT
EXTERIOR GLAZING	VITRO SOLARBAN 60 (2) OPTIGRAY + CLEAR GLASS INSULATING GLASS UNIT
WINDOWS (STOREFRONT AND CURTAIN WALL) AND ALUMINUM ENTRANCES FRAME COLOR	SHERWIN WILLIAMS 2808 ROOKWOOD DARK BROWN
EXTERIOR DOORS AND FRAMES	SHERWIN WILLIAMS 2808 ROOKWOOD DARK BROWN
METAL GUARDRAILS AND HANDRAILS	IMETCO CHESNUT
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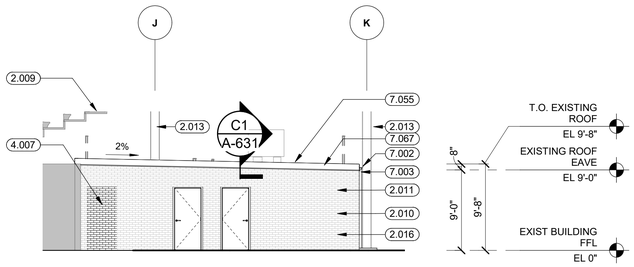
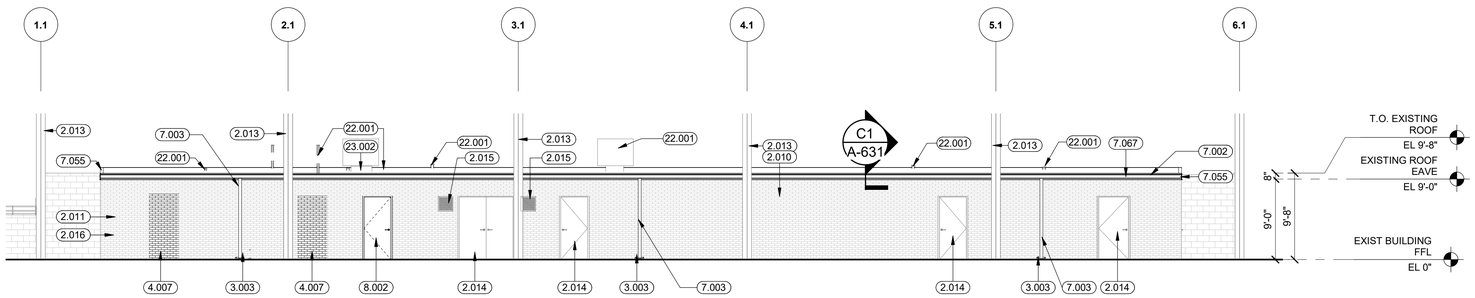
TRIM - FASCIA, GUTTERS, DOWNSPOUTS	IMETCO CHESNUT
STANDING SEAM ROOFING PANELS	IMETCO CHESNUT
HIGH PRESSURE LAMINATE PANEL CLADDING SYSTEM	TRESPA METEON NW31 WESTERN RED CEDAR MATT
NOTES: 1. ALL COLORS TO BE APPROVED BY AECOM ARCHITECTS	



C1 / A-211

ELEVATION - EXISTING FIELD HOUSE - WEST

1/8" = 1'-0"



A1 / A-211

ELEVATION - EXISTING FIELD HOUSE - SOUTH

1/8" = 1'-0"

SHEET KEYNOTES:

2.009	EXISTING BLEACHERS ABOVE
2.010	PATCH AND REPAIR BRICK JOINTS, TYP
2.011	EXISTING WALL TO REMAIN
2.013	PROTECT IN PLACE ETR STEEL BLEACHER COLUMN
2.014	PROTECT IN PLACE ETR DOOR AND FRAME
2.015	PROTECT IN PLACE ETR LOUVERS AND FRAME
2.016	EXISTING EXTERIOR WALL: BRICK OVER CMU, CONTRACTOR TO FIELD VERIFY WALL CONSTRUCTION AND DIMENSIONS PRIOR TO WORK
3.003	PRECAST CONCRETE SPLASH BLOCK UNDER DOWNSPOUT AT GRADE
4.007	INFILL OPENING TO MATCH EXISTING WALL CONSTRUCTION
7.002	6"X6" PREFINISHED ALUMINUM GUTTER WITH BEVELED PROFILE
7.003	3"X4" PREFINISHED ALUMINUM DOWNSPOUT
7.055	PREFINISHED METAL FASCIA / EAVE TRIM WITH HEMMED DRIP EDGE
7.067	.060 MECHANICALLY FASTENED FIRESTONE TPO ROOF SYSTEM ON 1/2" GLASS-MAT COVER BOARD ON R=30 CONTINUOUS POLYISOCYANURATE RIGID ROOF INSULATION ON VAPOR BARRIER ON 1/2" GLASS-MAT SHEATHING ON EXISTING METAL DECK.
8.002	PAINTED HOLLOW METAL DOOR FRAME, FINISH AS SCHEDULED, SEE DOOR SCHEDULE AND DETAILS
22.001	VENT THROUGH ROOF, REFER TO PLUMBING DRAWINGS. SEE DETAIL C3 ON SHEET A-631 FOR PENETRATIONS THROUGH ROOF TYPE 1. SEE DETAIL C5 ON SHEET A-631 FOR PENETRATIONS THROUGH ROOF TYPE 2.
23.002	MECHANICAL EQUIPMENT AS SCHEDULED, SEE MECHANICAL

8' 4' 0 8' 16'
1/8"=1'-0"

GRAPHIC SCALES

READY FOR CONSTRUCTION

AECOM

PROJECT

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5 May 2023
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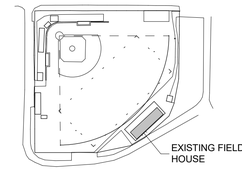
KEY PLAN



SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

SHEET TITLE

BUILDING ELEVATIONS - EXISTING FIELD HOUSE

SHEET NUMBER

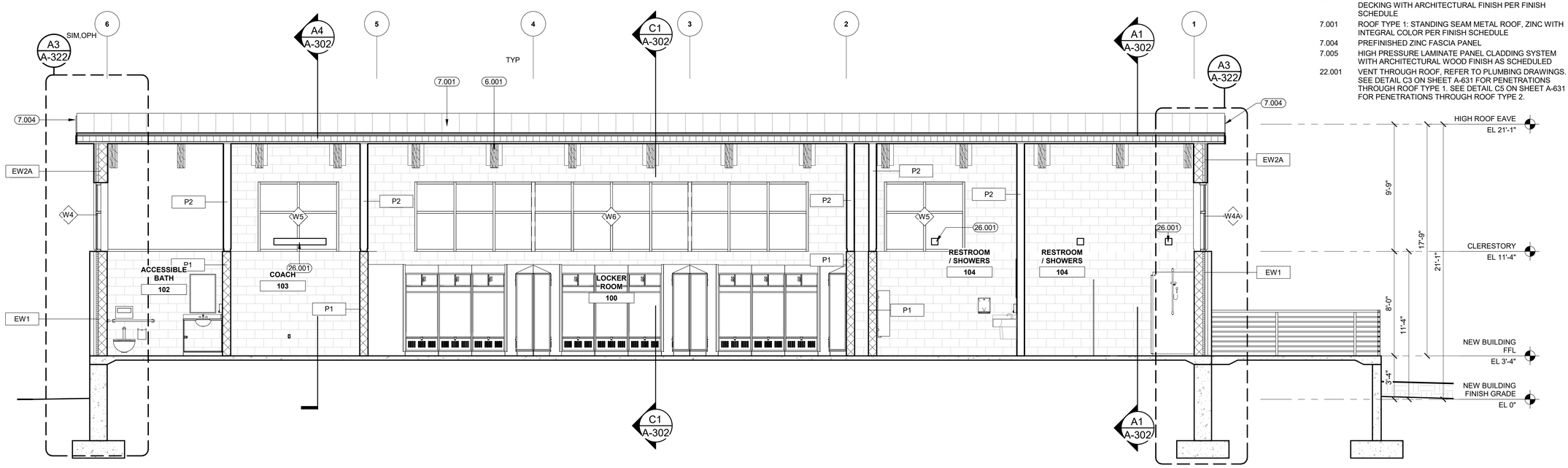
A-211

SHEET KEYNOTES:

22.002	DOMESTIC WATER SYSTEM, SEE PLUMBING
22.003	HI-LO ACCESSIBLE WATER FOUNTAIN W/ BOTTLE FILLER
23.002	MECHANICAL EQUIPMENT AS SCHEDULED, SEE MECHANICAL
26.001	LIGHTING FIXTURE AS SCHEDULED, SEE ELECTRICAL

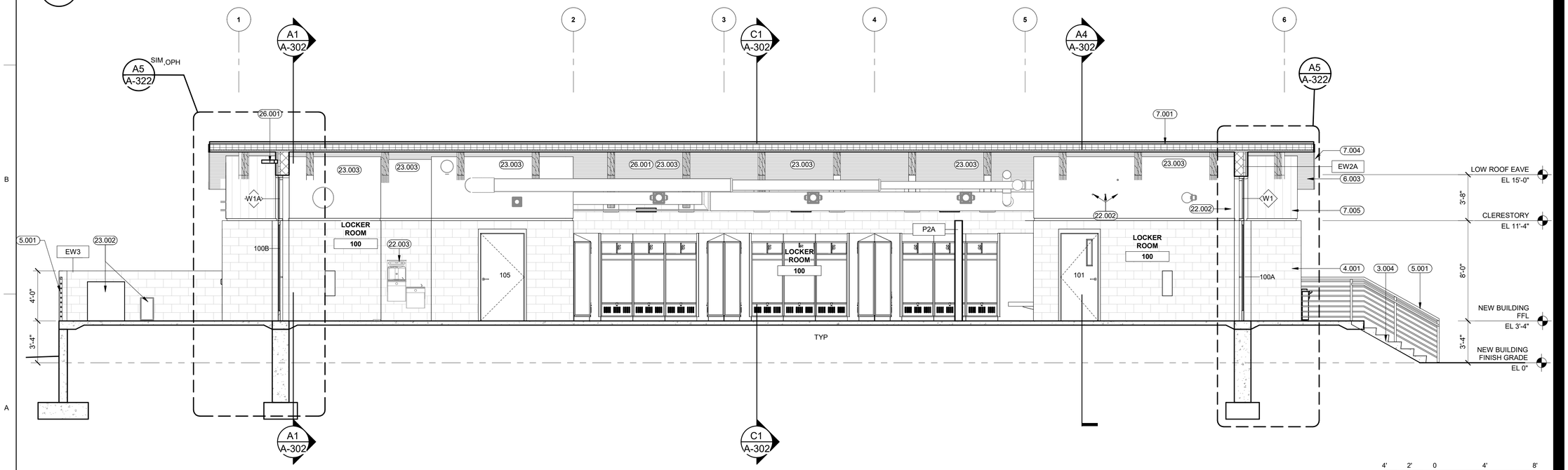
SHEET KEYNOTES:

3.004	CONCRETE STAIR WITH INTEGRAL COLOR, SEE STRUCTURAL
4.001	SPLIT FACE MASONRY VENEER WITH INTEGRAL COLOR, FINISH AS SCHEDULED
5.001	GALVANIZED STEEL HANDRAIL AND GUARDRAILS, FINISH AS SCHEDULED
6.001	TAPERED STRUCTURAL GLULAM BEAM WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE, SEE STRUCTURAL
6.003	1 1/2" X 6" TONGUE AND GROOVE STRUCTURAL WOOD DECKING WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE
7.001	ROOF TYPE 1: STANDING SEAM METAL ROOF, ZINC WITH INTEGRAL COLOR PER FINISH SCHEDULE
7.004	PREFINISHED ZINC FASCIA PANEL
7.005	HIGH PRESSURE LAMINATE PANEL CLADDING SYSTEM WITH ARCHITECTURAL WOOD FINISH AS SCHEDULED
22.001	VENT THROUGH ROOF, REFER TO PLUMBING DRAWINGS. SEE DETAIL C3 ON SHEET A-631 FOR PENETRATIONS THROUGH ROOF TYPE 1. SEE DETAIL C5 ON SHEET A-631 FOR PENETRATIONS THROUGH ROOF TYPE 2.



C1 A-301 BUILDING SECTION - NEW FIELD HOUSE - B

1/4" = 1'-0"



A1 A-301 BUILDING SECTION - NEW FIELD HOUSE - A

1/4" = 1'-0"

1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

READY FOR CONSTRUCTION

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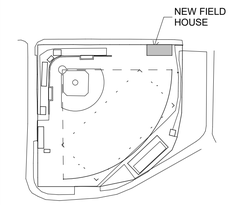

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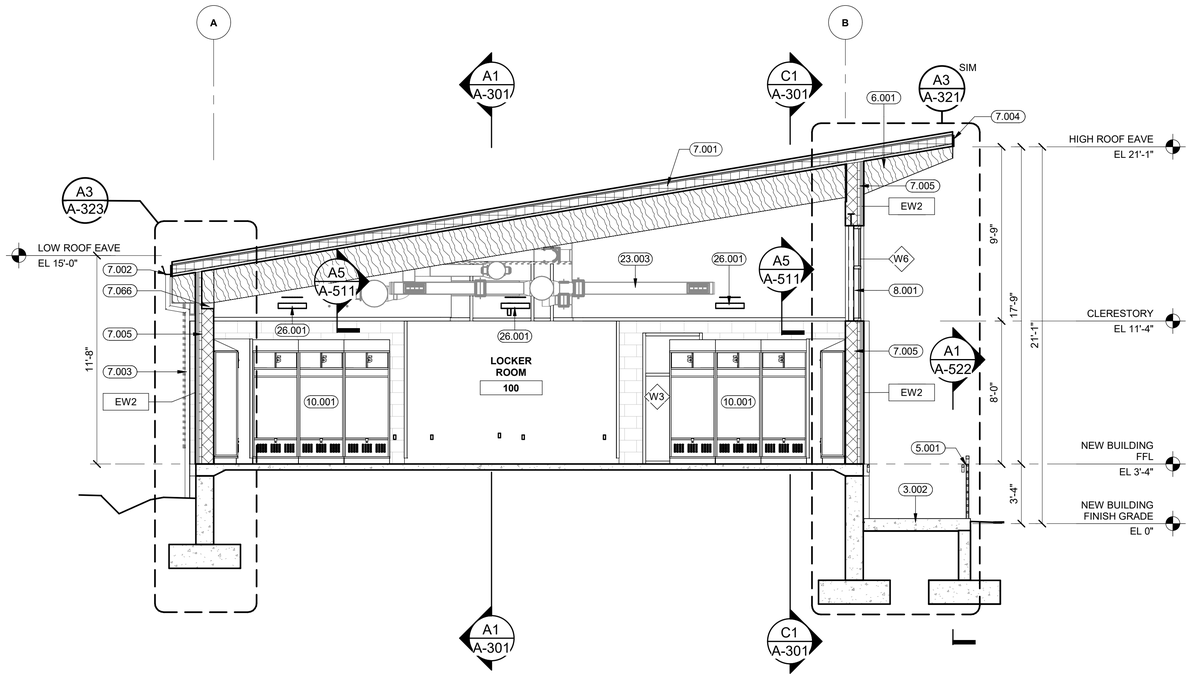
SHEET TITLE

BUILDING SECTIONS - NEW FIELD HOUSE

SHEET NUMBER

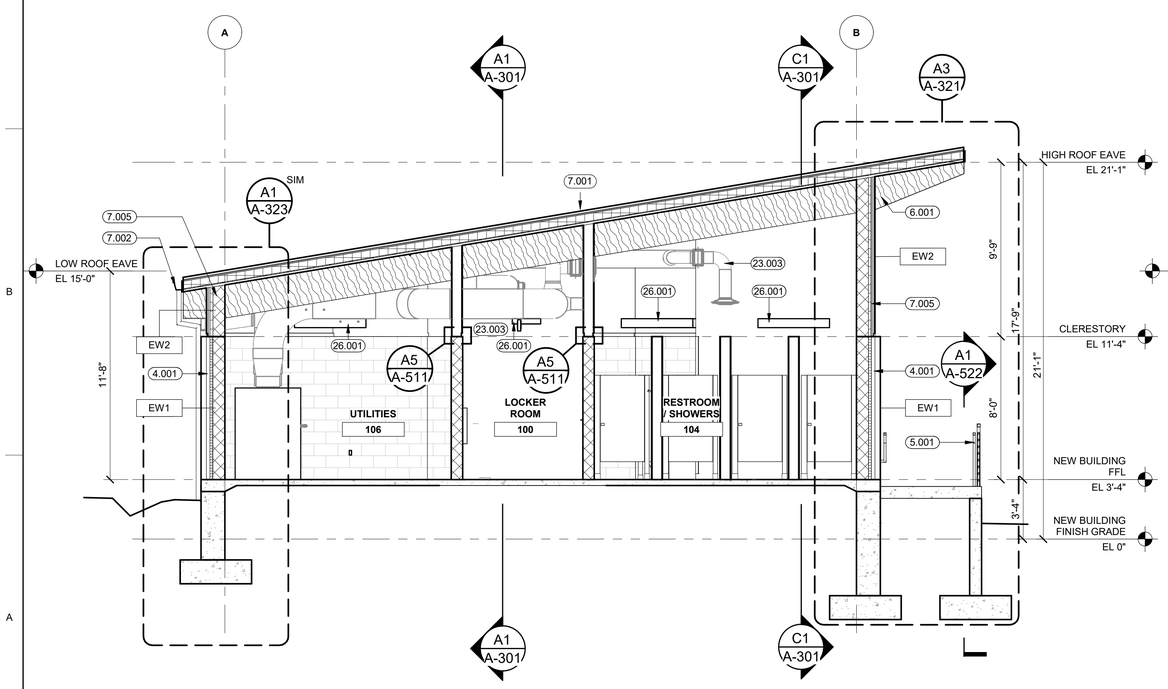
A-301



C1 A-302

CROSS SECTION 1

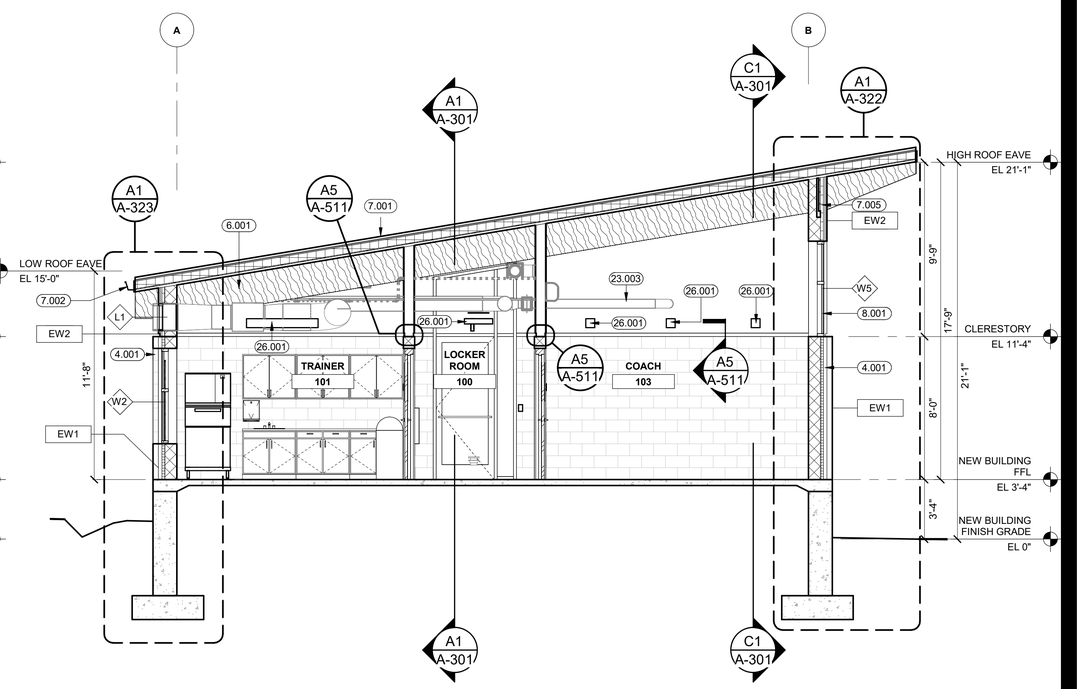
1/4" = 1'-0"



A1 A-302

CROSS SECTION 3

1/4" = 1'-0"



A4 A-302

CROSS SECTION 2

1/4" = 1'-0"

SHEET KEYNOTES:

3.002	CONCRETE ACCESSIBLE RAMP WITH INTEGRAL COLOR, SEE STRUCTURAL
4.001	SPLIT FACE MASONRY VENEER WITH INTEGRAL COLOR, FINISH AS SCHEDULED
5.001	GALVANIZED STEEL HANDRAIL AND GUARDRAILS, FINISH AS SCHEDULED
6.001	TAPERED STRUCTURAL GLULAM BEAM WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE, SEE STRUCTURAL
7.001	ROOF TYPE 1: STANDING SEAM METAL ROOF, ZINC WITH INTEGRAL COLOR PER FINISH SCHEDULE
7.002	6"X6" PREFINISHED ALUMINUM GUTTER WITH BEVELED PROFILE
7.003	3"X4" PREFINISHED ALUMINUM DOWNSPOUT
7.004	PREFINISHED ZINC FASCIA PANEL
7.005	HIGH PRESSURE LAMINATE PANEL CLADDING SYSTEM WITH ARCHITECTURAL WOOD FINISH AS SCHEDULED
7.066	1/4" U-PROFILE METAL CLOSURE PANEL OVER SADDLE POCKET, TYP AT END OF EACH BEAM
8.001	PAINTED ALUMINUM FRAME STOREFRONT CLERESTORY W/ LOW "E" TINTED INSULATED GLASS (GL-1)
10.001	W30" X D18" X H72" LOCKER, TYP, (50) TOTAL
23.003	EXPOSED SPIRAL ROOF DUCT WITH STAINLESS STEEL FINISH, SEE MECHANICAL
26.001	LIGHTING FIXTURE AS SCHEDULED, SEE ELECTRICAL

GRAPHIC SCALES

4' 2' 0 4' 8'

1/4"=1'-0"

AECOM

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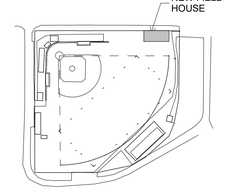

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I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

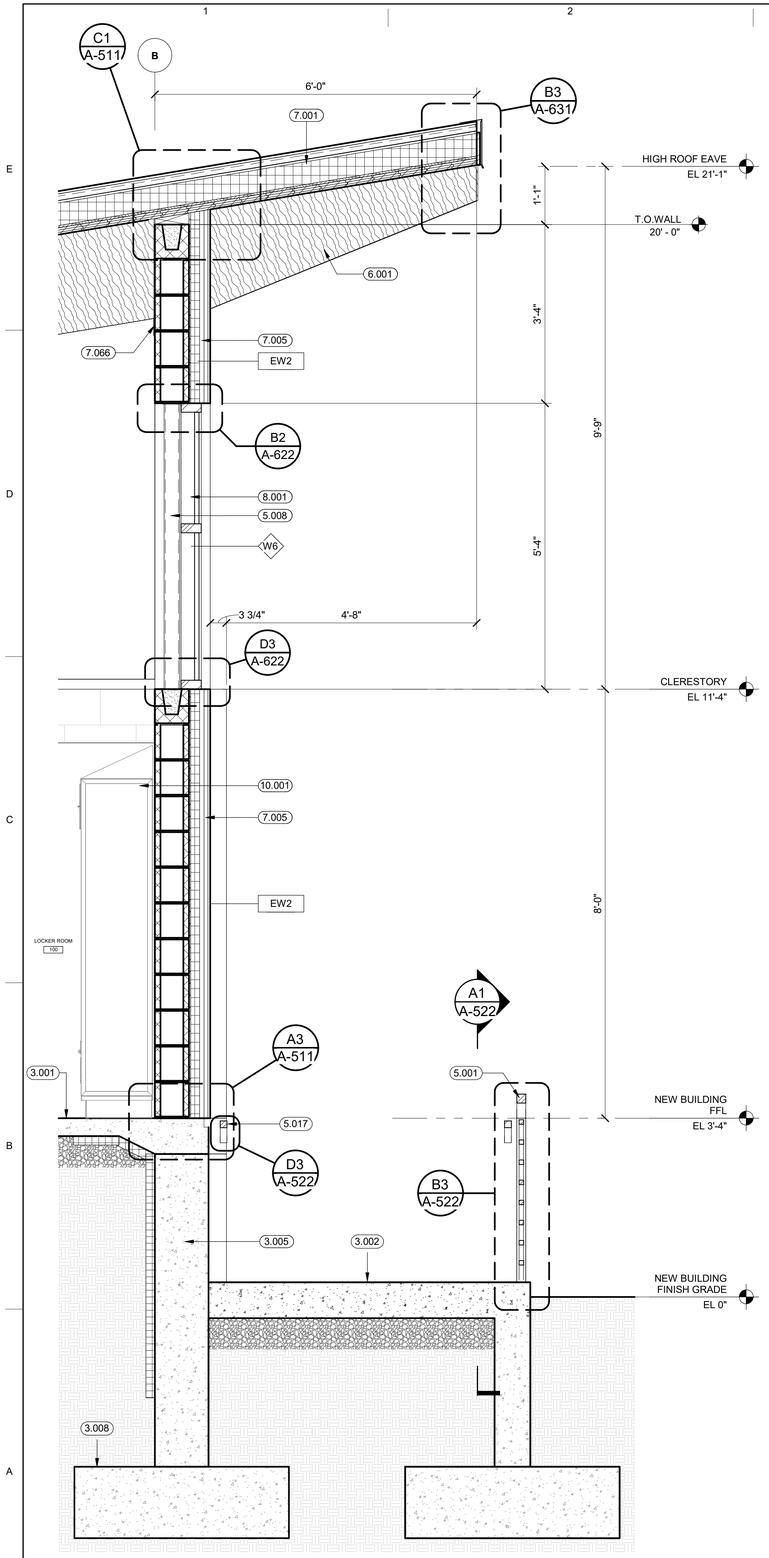
SHEET TITLE

BUILDING SECTIONS - NEW FIELD HOUSE

SHEET NUMBER

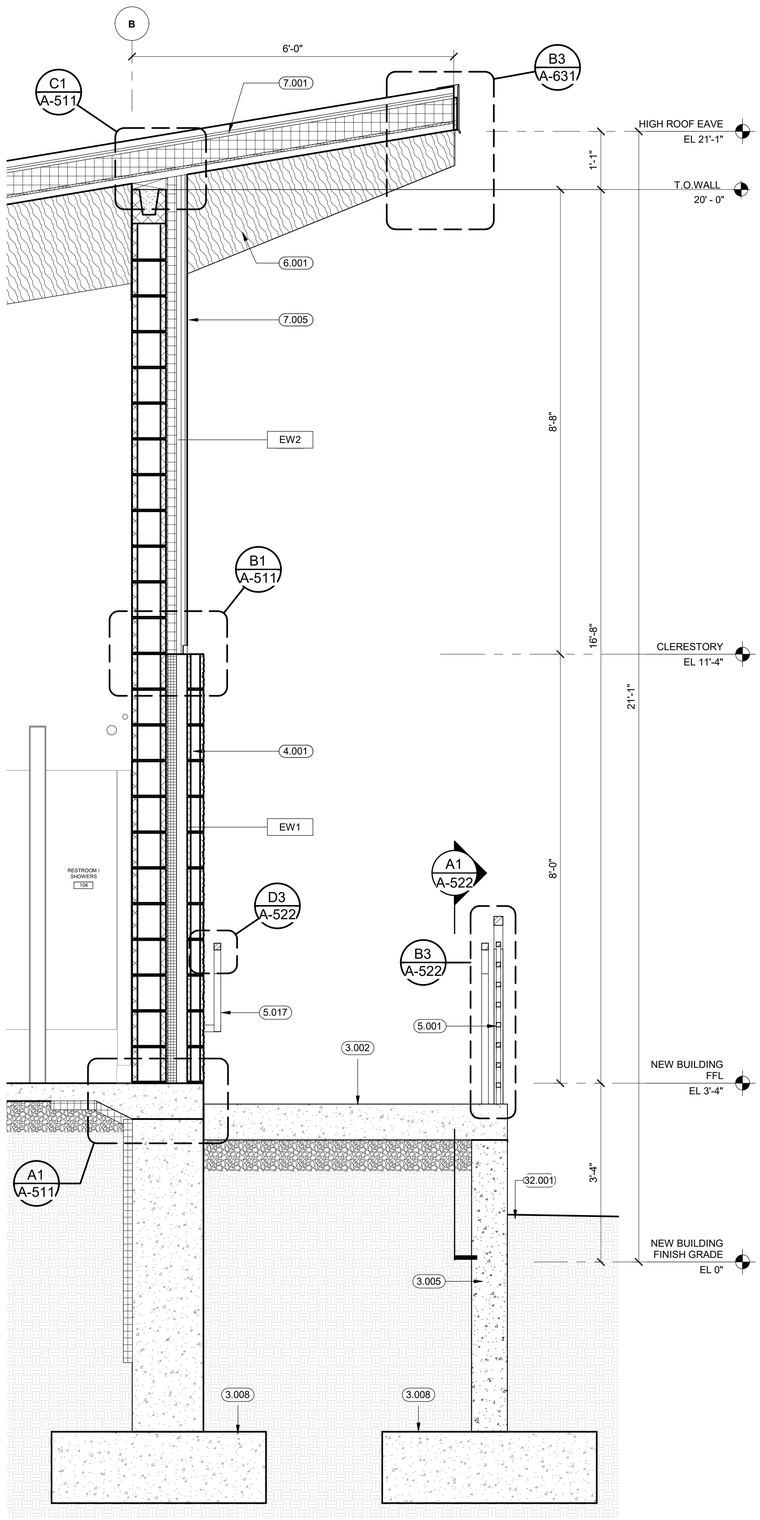
A-302

READY FOR CONSTRUCTION



A1 / A-321 WALL SECTION - A

3/4" = 1'-0"



A3 / A-321 WALL SECTION - B

3/4" = 1'-0"

SHEET KEYNOTES:

3.001	CONCRETE STRUCTURAL SLAB WITH INTEGRAL COLOR, SEE STRUCTURAL
3.002	CONCRETE ACCESSIBLE RAMP WITH INTEGRAL COLOR, SEE STRUCTURAL
3.005	CONCRETE FOUNDATION WALL WITH INTEGRAL COLOR, SEE STRUCTURAL
3.008	CONCRETE FOUNDATION. REFER TO STRUCTURAL DRAWINGS
4.001	SPLIT FACE MASONRY VENEER WITH INTEGRAL COLOR, FINISH AS SCHEDULED
5.001	GALVANIZED STEEL HANDRAIL AND GUARDRAILS, FINISH AS SCHEDULED
5.008	PNT HSS COLUMN, SEE STRUCTURAL
5.017	GALVANIZED STEEL WALL MOUNTED HANDRAIL, FINISH AS SCHEDULED. SEE DETAIL C5 ON SHEET A-522.
6.001	TAPERED STRUCTURAL GLULAM BEAM WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE, SEE STRUCTURAL
7.001	ROOF TYPE 1: STANDING SEAM METAL ROOF, ZINC WITH INTEGRAL COLOR PER FINISH SCHEDULE
7.005	HIGH PRESSURE LAMINATE PANEL CLADDING SYSTEM WITH ARCHITECTURAL WOOD FINISH AS SCHEDULED
7.066	1/4" U-PROFILE METAL CLOSURE PANEL OVER SADDLE POCKET, TYP AT END OF EACH BEAM
8.001	PAINTED ALUMINUM FRAME STOREFRONT CLERESTORY W/ LOW "E" TINTED INSULATED GLASS (GL-1)
10.001	W30" X D18" X H72" LOCKER, TYP, (50) TOTAL
32.001	FINISH GRADE. REFER TO CIVIL DRAWINGS

3/4"=1'-0" 12" 6" 0 1' 2' 3'

GRAPHIC SCALES

READY FOR CONSTRUCTION

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PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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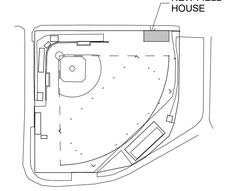
REGISTRATION

COMMONWEALTH OF VIRGINIA
RICHARD THRASHER
Lic. No. 007490
5 May 2023
ARCHITECT

KEY PLAN



SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

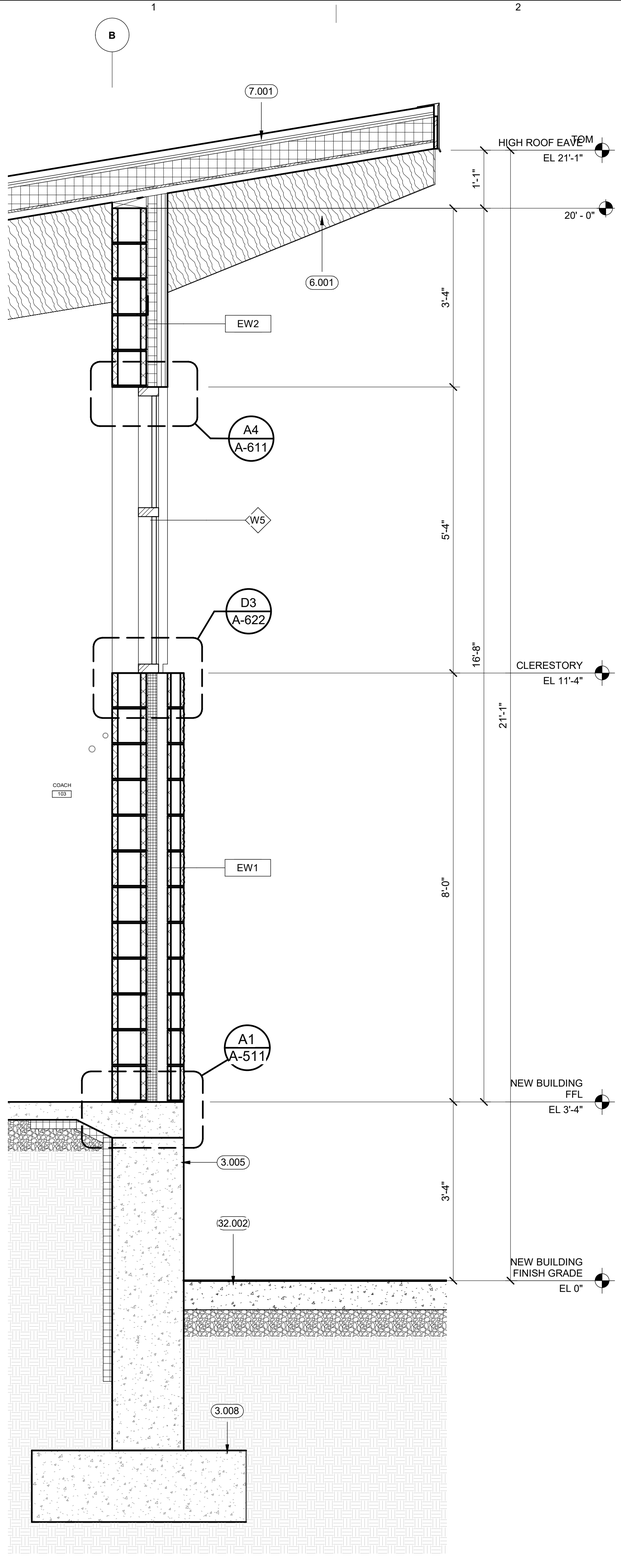
60699711

SHEET TITLE

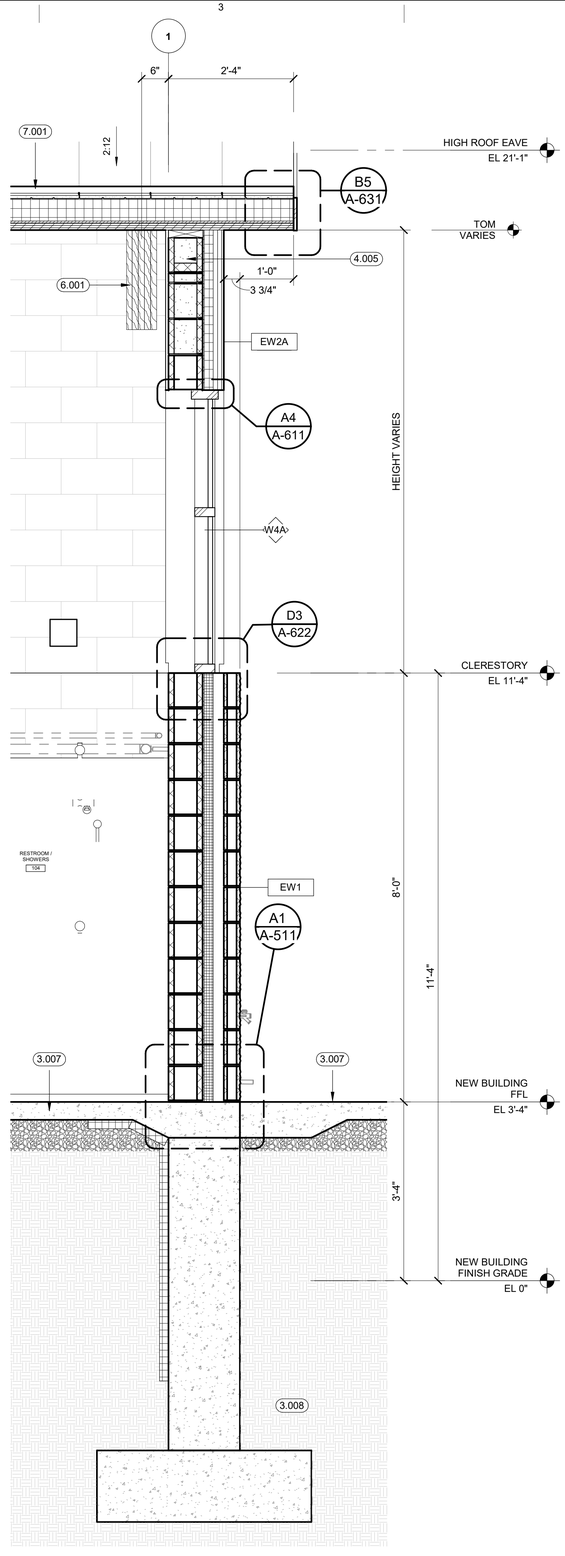
WALL SECTIONS

SHEET NUMBER

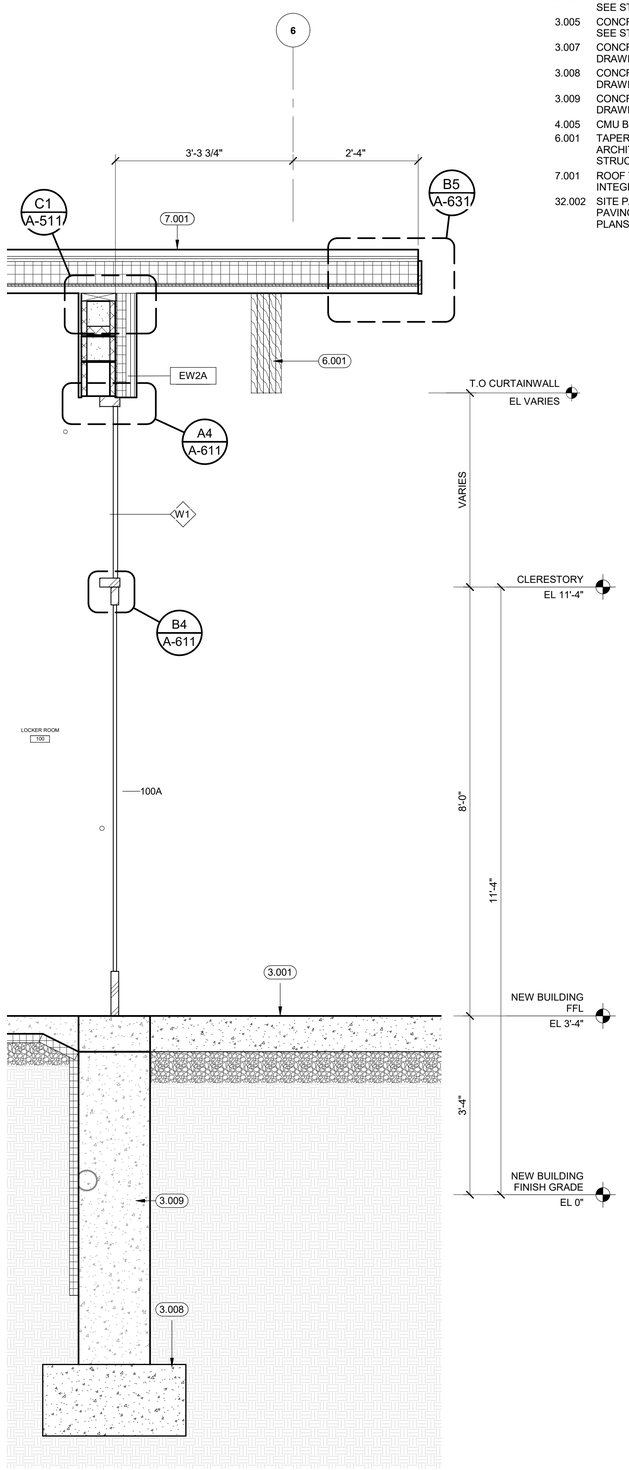
A-321



A1 / A-322 WALL SECTION - C
3/4" = 1'-0"



A3 / A-322 WALL SECTION - D
3/4" = 1'-0"



A5 / A-322 WALL SECTION - E
3/4" = 1'-0"

SHEET KEYNOTES:

3.001	CONCRETE STRUCTURAL SLAB WITH INTEGRAL COLOR, SEE STRUCTURAL
3.005	CONCRETE FOUNDATION WALL WITH INTEGRAL COLOR, SEE STRUCTURAL
3.007	CONCRETE SLAB ON GRADE, REFER TO STRUCTURAL DRAWINGS
3.008	CONCRETE FOUNDATION. REFER TO STRUCTURAL DRAWINGS
3.009	CONCRETE FOUNDATION WALL. REFER TO STRUCTURAL DRAWINGS
4.005	CMU BOND BEAM, SEE STRUCTURAL
6.001	TAPERED STRUCTURAL GLULAM BEAM WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE, SEE STRUCTURAL
7.001	ROOF TYPE 1: STANDING SEAM METAL ROOF, ZINC WITH INTEGRAL COLOR PER FINISH SCHEDULE
32.002	SITE PAVING, REFER TO CIVIL DRAWINGS. SLOPE FINISH PAVING AWAY FROM BUILDING. REFER TO CIVIL GRADING PLANS FOR SITE GRADING

3/4"=1'-0" 12" 6" 0 1' 2' 3'

GRAPHIC SCALES

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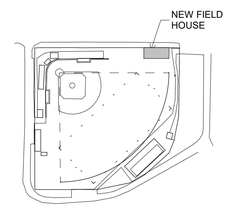

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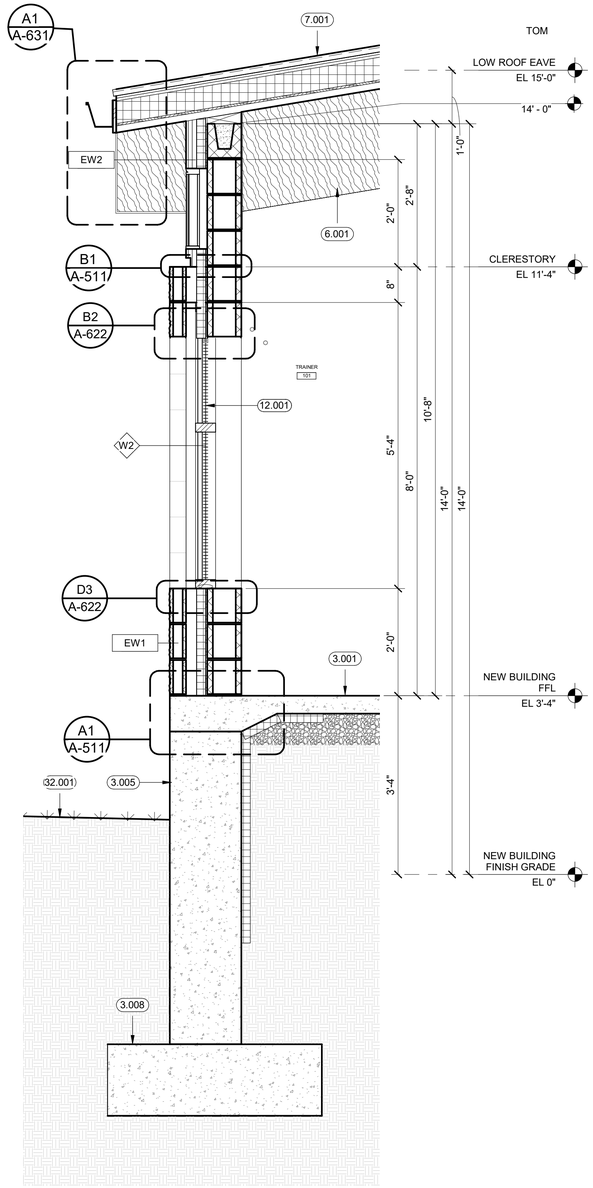
SHEET TITLE

WALL SECTIONS

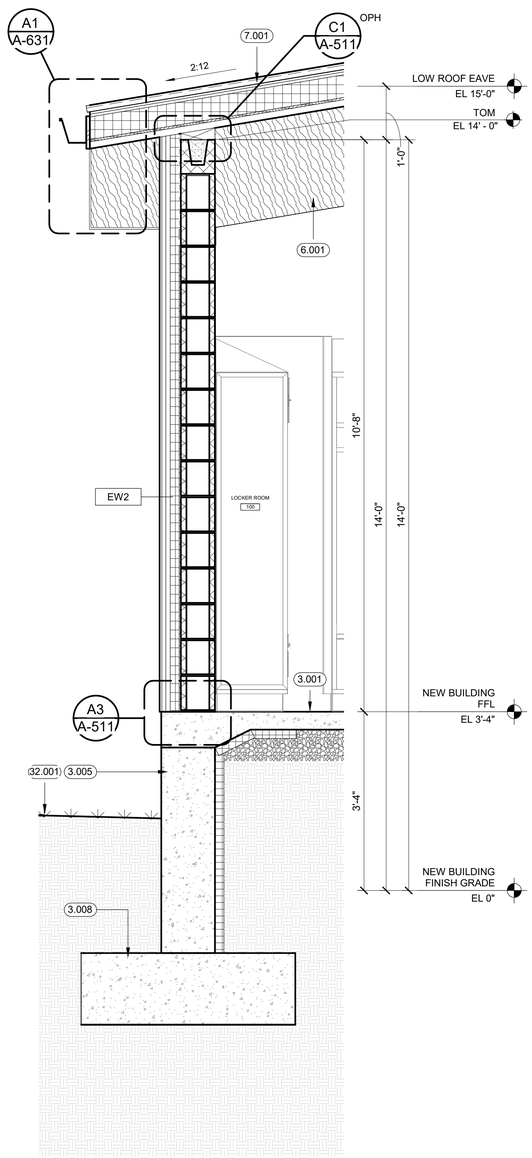
SHEET NUMBER

A-322

READY FOR CONSTRUCTION



A1 / A-323 WALL SECTION - F
3/4" = 1'-0"



A3 / A-323 WALL SECTION - G
3/4" = 1'-0"

SHEET KEYNOTES:

3.001	CONCRETE STRUCTURAL SLAB WITH INTEGRAL COLOR, SEE STRUCTURAL
3.005	CONCRETE FOUNDATION WALL WITH INTEGRAL COLOR, SEE STRUCTURAL
3.008	CONCRETE FOUNDATION. REFER TO STRUCTURAL DRAWINGS
6.001	TAPERED STRUCTURAL GLULAM BEAM WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE, SEE STRUCTURAL
7.001	ROOF TYPE 1: STANDING SEAM METAL ROOF, ZINC WITH INTEGRAL COLOR PER FINISH SCHEDULE
12.001	ROLLER WINDOW SHADE, FULL HEIGHT OF WINDOW. MOUNT TO INTERIOR SIDE.
32.001	FINISH GRADE. REFER TO CIVIL DRAWINGS

3/4"=1'-0" 12" 6" 0 1' 2' 3'

GRAPHIC SCALES

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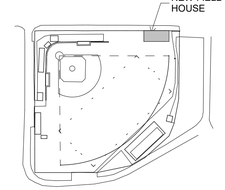

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SHEET TITLE

WALL SECTIONS

SHEET NUMBER

A-323

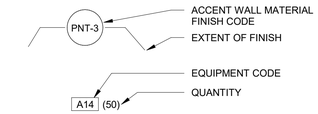
INTERIOR FINISH LEGEND

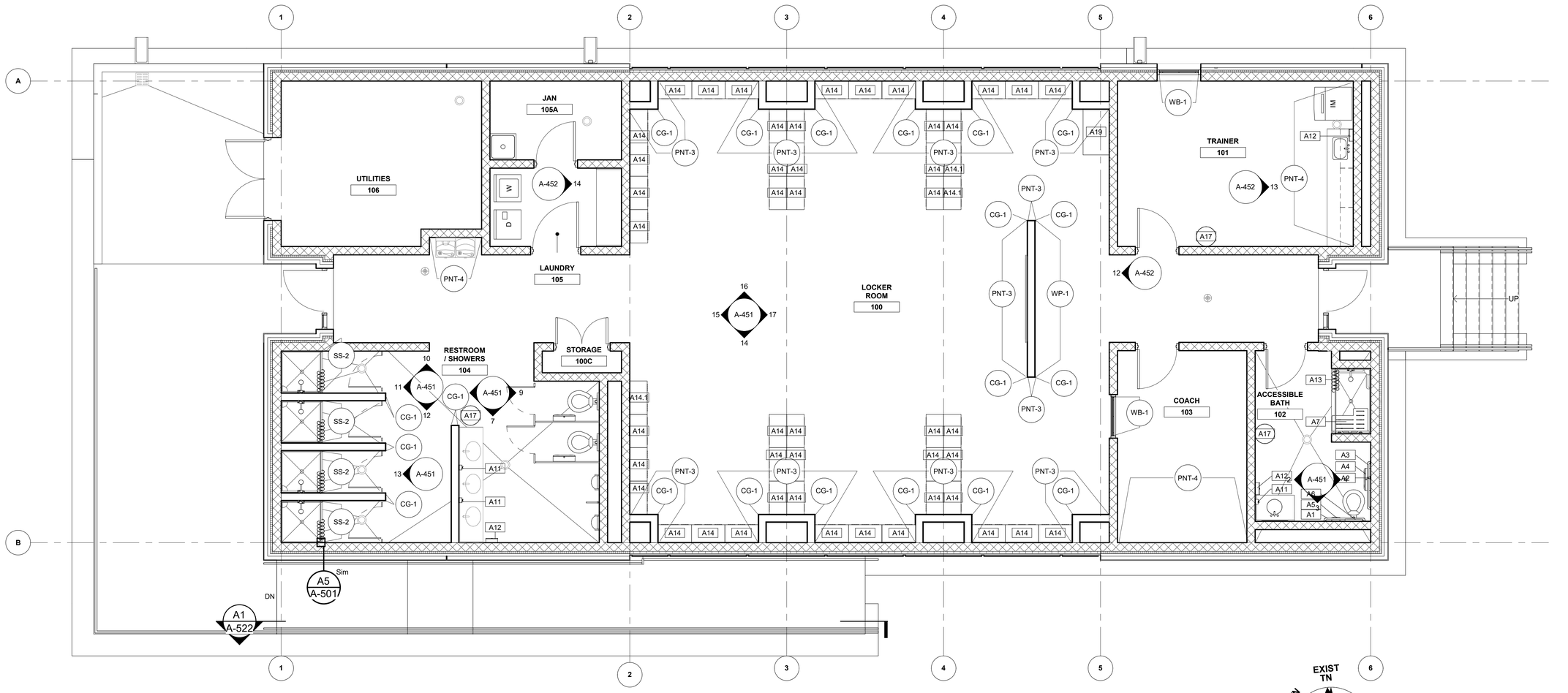
FINISH	SPEC SECTION	CODE DESCRIPTION	MATERIAL	MANUFACTURER	STYLE/DESCRIPTION	COLOR	SIZE	COMMENTS	LOCATION
CG-1	10 26 00	CORNER GUARDS	STAINLESS STEEL	INPRO	16 GAUGE STAINLESS STEEL, SURFACE MOUNT	STAINLESS STEEL	2" WINGS, LENGTH VARIES	SEE ELEVATIONS FOR LENGTHS	ALL OUTSIDE CORNERS ON GYP BOARD WALLS
PLAM-1	06 41 16.00 10	PLASTIC LAMINATE	HIGH PRESSURE PLASTIC LAMINATE	WILSONART	LINEARITY FINISH	SATIN STAINLESS, 4830			
PNT-1	09 90 00	PAINTS AND COATINGS	LATEX	SHERWIN WILLIAMS	INTERIOR LATEX EGGSHELL ENAMEL	SW7009; PEARLY WHITE			GENERAL WALL PAINT
PNT-2	09 90 00	PAINTS AND COATINGS	LATEX	SHERWIN WILLIAMS	INTERIOR LATEX SEMI-GLOSS ENAMEL	SW2808; ROOKWOOD DARK BROWN			EXISTING INTERIOR HM DOOR FRAME + INTERIOR HM DOOR PNT, NEW HM DOOR FRAME, METAL WALL REVEAL
PNT-3	09 90 00	PAINTS AND COATINGS	LATEX	SHERWIN WILLIAMS	INTERIOR LATEX EGGSHELL ENAMEL	SW6809; LOBELIA			ACCENT PAINT
PNT-4	09 90 00	PAINTS AND COATINGS	LATEX	SHERWIN WILLIAMS	INTERIOR LATEX EGGSHELL ENAMEL	SW9176; DRESS BLUES			ACCENT PAINT
RB-1	10 26 00	RUBBER WALL BASE	RUBBER	JOHNSONITE	TRADITIONAL DURAVCOVE	STERLING SILVER 69	4"		
SC-1	09 90 00	PAINTS AND COATINGS	CONCRETE STAIN	H&C	WATER BASED SEMI-TRANSPARENT STAIN	ARCTIC STONE			
SS-1	12 36 61.16	SOLID SURFACING FABRICATIONS	SOLID SURFACE	CORIAN	-	SILVER BIRCH	3cm THICK	TYPICAL COUNTER IN PRIVATE RESTROOMS, TRAINER ROOMS, AND LAUNDRY	
SS-2	12 36 61.16	SOLID SURFACING FABRICATIONS	SOLID SURFACE	INPRO	BIOPRISM	GLACIER, P9055		TYPICAL SHOWER WALLS	
SS-3	12 36 61.16	SOLID SURFACING FABRICATIONS	SOLID SURFACE	BRADLEY	TERREON	SILVER MIST	1/2" THICK	TYPICAL SINK FINISH IN PUBLIC RESTROOMS	
TP-1	10 21 16.19	PLASTIC TOILET PARTIONS	HIGH DENSITY POLYETHYLENE	SCRANTON PRODUCTS	HINY HIDERS	BLUEBERRY-ORANGE PEEL			
WB-1	10 20 00	WINDOW BLINDS	HORIZONTAL ALUMINUM BLINDS	HUNTER DOUGLAS	CL82, INSIDE MOUNT	BRIGHT WHITE	1" WIDE SLATS		WINDOWS IN TRAINER (101), COACH (103)
WP-1	10 26 00	WALL AND DOOR PROTECTION	PETG	INPRO	ASPEX	IMAGE TO BE SUBMITTED BY CLIENT		ALUMINUM TOP CAP AND CORNER TRIM, CLEAR ANODIZED FINISH	ENTRY WALL
WS-1	09 90 00	PAINTS AND COATINGS	WOOD STAIN	MINWAX		TO BE SELECTED BY AECOM ARCHITECT IN FIELD FROM MANUFACTURERS STANDARD RANGE		TO MATCH TRESPA NW26 CORE ASH MATT	NEW BUILDING WOOD CEILINGS AND BEAMS

GENERAL NOTES THIS SHEET:

A. SEE TECHNICAL SPECIFICATIONS AND INTERIOR FINISH SCHEDULE (SHEET A-411) FOR INTERIOR FINISH INFORMATION.
B. PAINT EXISTING INTERIOR HOLLOW METAL FRAMES AND DOORS, AND EXPOSED COLUMNS PNT-2, UNO.
C. PAINT NEW HOLLOW METAL DOOR FRAMES PNT-2, UNO. STAIN NEW WOOD DOORS WS-1, UNO.
D. PAINT WALLS PNT-1, UNO.
E. PROVIDE RB-1 AT ALL GWB WALLS, UNO.
F. FINISH CONCRETE FLOORS WITH SC-1, UNO.
G. IN AREAS WHERE NO BASE IS REQUIRED BETWEEN SEALED CONCRETE AND WALLS; PROVIDE CLEAR, WATERPROOF SEALANT, SEE SPECIFICATIONS FOR FURTHER INFORMATION.
H. SEE ARCHITECTURAL DETAIL DRAWINGS FOR INTERIOR CASEWORK & ADDITIONAL FINISH CONSTRUCTION DETAILS.
I. SHOWER WALLS AND FLOOR TO BE FINISHED WITH INPRO BIOPRISM SYSTEM.
J. PROVIDE TWO ROBE HOOKS (A10) AND ONE SHELF (A18) IN EACH ACCESSIBLE DRESSING ROOM.
K. PROVIDE COAT HOOK ON BACK OF EACH TOILET STALL DOOR.

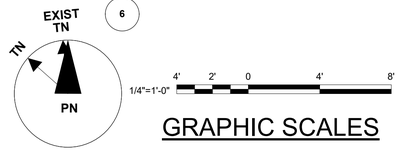
FINISH PLAN LEGEND





FINISH PLAN - NEW FIELD HOUSE

1/4" = 1'-0"



1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

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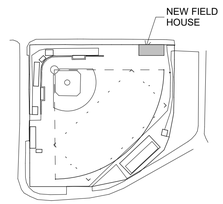
ANNE LINDSTROM MOORE
Cert. No. 000869
05/05/2023
CERTIFIED INTERIOR DESIGNER

KEY PLAN



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PROJECT NUMBER

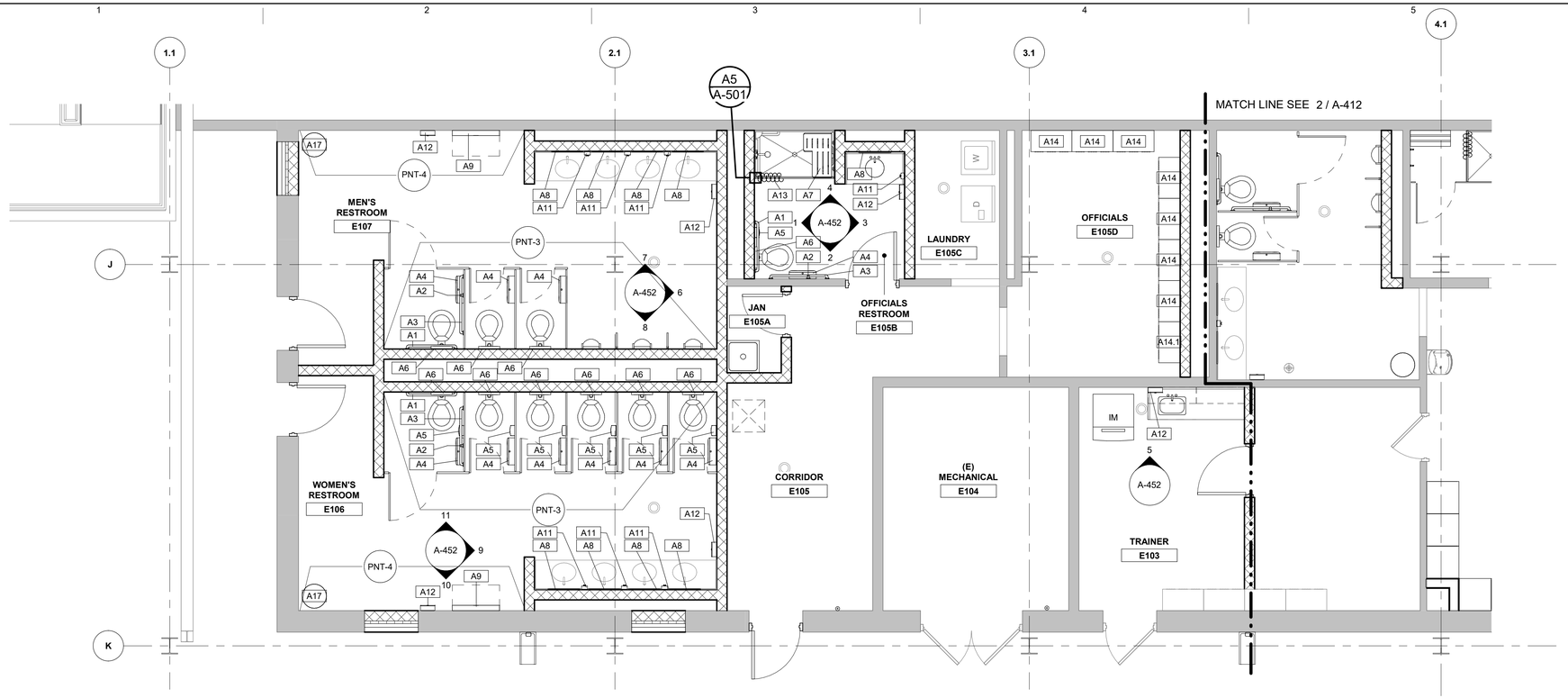
60699711

SHEET TITLE

INTERIOR FINISH PLANS & SCHEDULE - NEW FIELD HOUSE

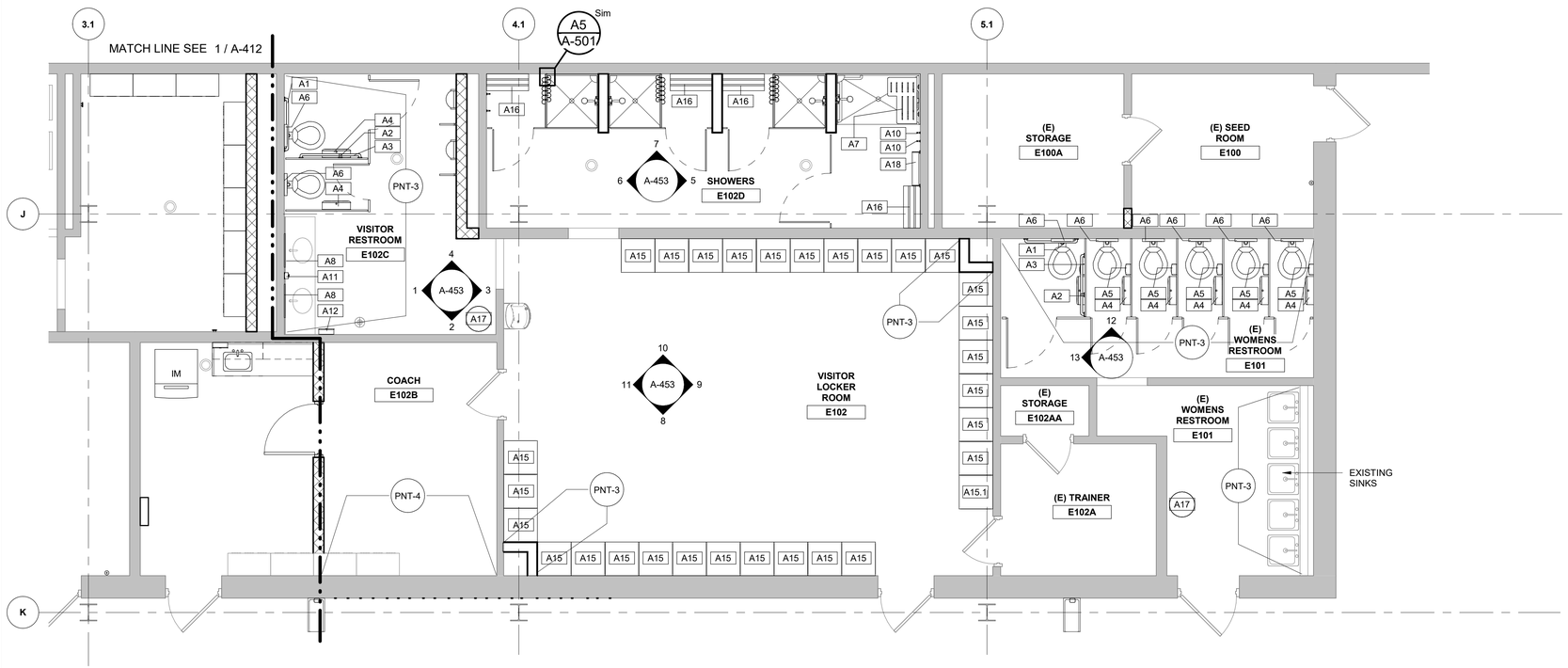
SHEET NUMBER

A-411



FINISH PLAN - EXISTING FIELD HOUSE - AREA A

1/4" = 1'-0"



FINISH PLAN - EXISTING FIELD HOUSE - AREA B

1/4" = 1'-0"

GENERAL NOTES THIS SHEET:

A. SEE TECHNICAL SPECIFICATIONS AND INTERIOR FINISH SCHEDULE (SHEET A-411) FOR INTERIOR FINISH INFORMATION.
B. PAINT EXISTING INTERIOR HOLLOW METAL FRAMES AND DOORS, AND EXPOSED COLUMNS PNT-2, UNO.
C. PAINT NEW HOLLOW METAL DOOR FRAMES PNT-2, UNO. STAIN NEW WOOD DOORS WS-1, UNO.
D. PAINT WALLS PNT-1, UNO.
E. PROVIDE RB-1 AT ALL GWB WALLS, UNO.
F. FINISH CONCRETE FLOORS WITH SC-1, UNO.
G. IN AREAS WHERE NO BASE IS REQUIRED BETWEEN SEALED CONCRETE AND WALLS; PROVIDE CLEAR, WATERPROOF SEALANT, SEE SPECIFICATIONS FOR FURTHER INFORMATION.
H. SEE ARCHITECTURAL DETAIL DRAWINGS FOR INTERIOR CASEWORK & ADDITIONAL FINISH CONSTRUCTION DETAILS.
I. SHOWER WALLS AND FLOOR TO BE FINISHED WITH INPRO BIOPRISM SYSTEM.
J. PROVIDE TWO ROBE HOOKS (A10) AND ONE SHELF (A18) IN EACH ACCESSIBLE DRESSING ROOM.
K. PROVIDE COAT HOOK ON BACK OF EACH TOILET STALL DOOR.

FINISH PLAN LEGEND

PNT-3 — ACCENT WALL MATERIAL FINISH CODE
EXTENT OF FINISH
A14 (50) — EQUIPMENT CODE, QUANTITY

EXIST TN / PN

1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

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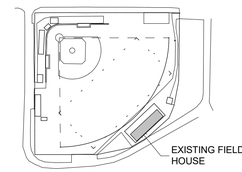
KEY PLAN



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PROJECT NUMBER

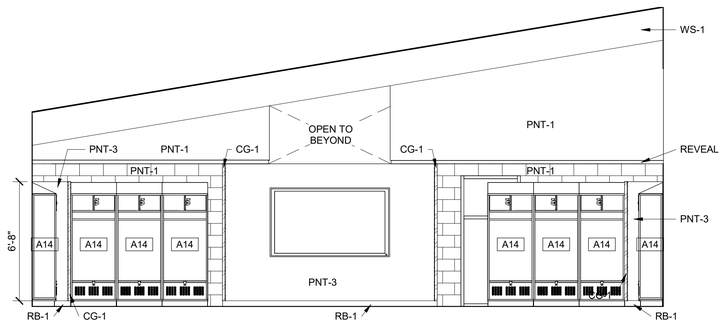
60699711

SHEET TITLE

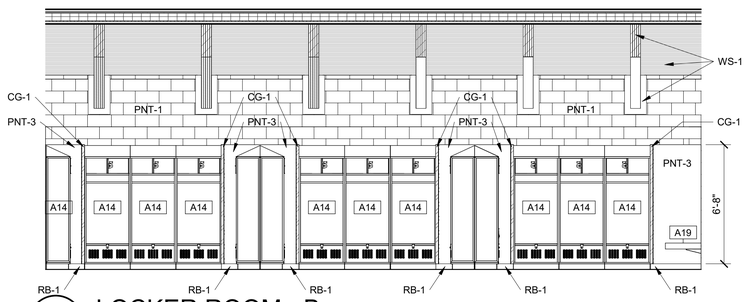
INTERIOR FINISH PLANS - EXISTING FIELD HOUSE

SHEET NUMBER

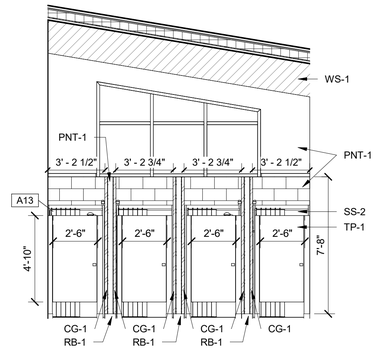
A-412



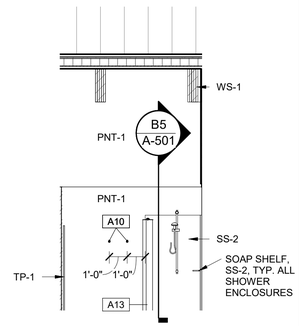
17 / A-451 LOCKER ROOM - A
1/4" = 1'-0"



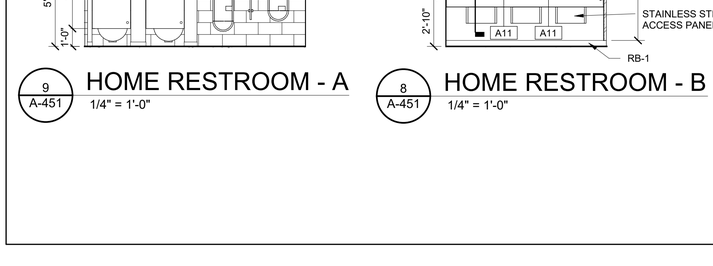
16 / A-451 LOCKER ROOM - B
1/4" = 1'-0"



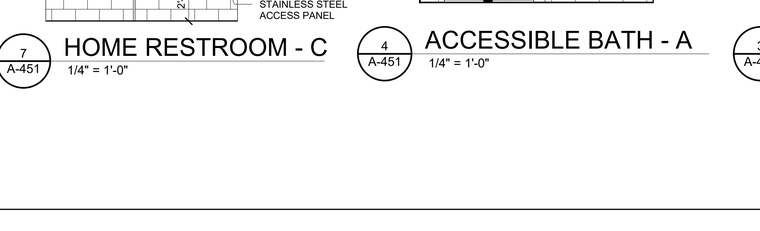
13 / A-451 HOME SHOWERS - A
1/4" = 1'-0"



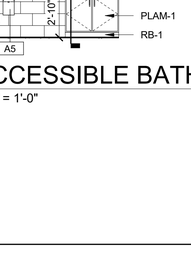
12 / A-451 HOME SHOWERS - B
1/4" = 1'-0"



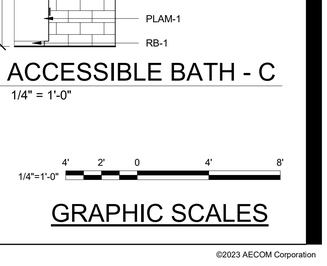
15 / A-451 LOCKER ROOM - C
1/4" = 1'-0"



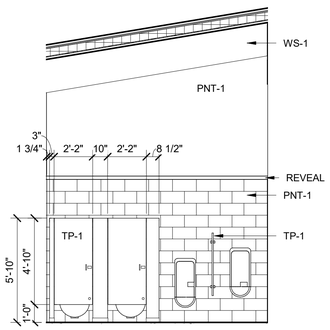
14 / A-451 LOCKER ROOM - D
1/4" = 1'-0"



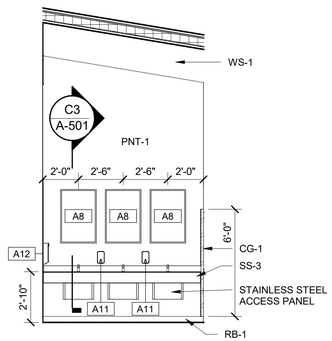
11 / A-451 HOME SHOWERS - C
1/4" = 1'-0"



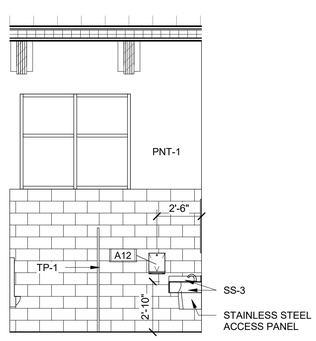
10 / A-451 HOME SHOWERS - D
1/4" = 1'-0"



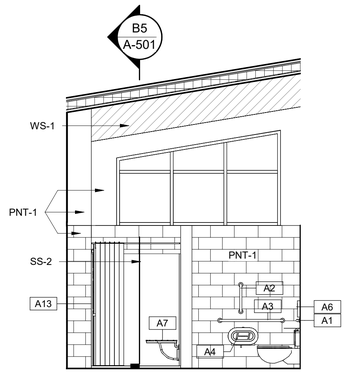
9 / A-451 HOME RESTROOM - A
1/4" = 1'-0"



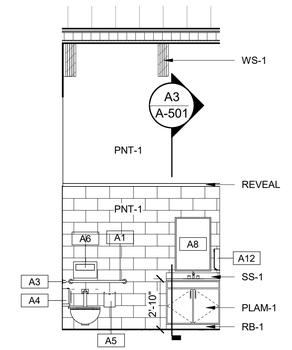
8 / A-451 HOME RESTROOM - B
1/4" = 1'-0"



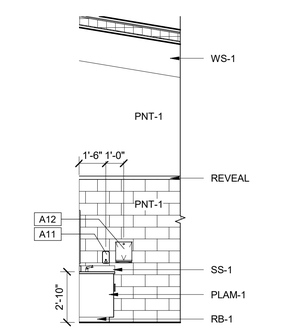
7 / A-451 HOME RESTROOM - C
1/4" = 1'-0"



4 / A-451 ACCESSIBLE BATH - A
1/4" = 1'-0"



3 / A-451 ACCESSIBLE BATH - B
1/4" = 1'-0"



2 / A-451 ACCESSIBLE BATH - C
1/4" = 1'-0"

4' 2' 0 4' 8'
1/4"=1'-0"

GRAPHIC SCALES

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PROJECT

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Cert. No. 000869
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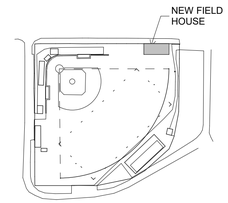
CERTIFIED INTERIOR DESIGNER

KEY PLAN



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I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
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PROJECT NUMBER

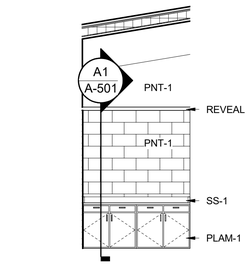
60699711

SHEET TITLE

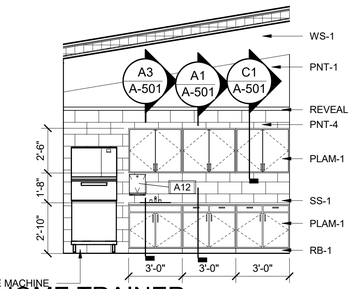
INTERIOR ELEVATIONS - NEW FIELD HOUSE

SHEET NUMBER

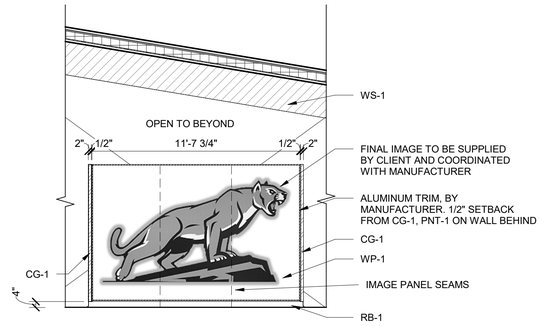
A-451



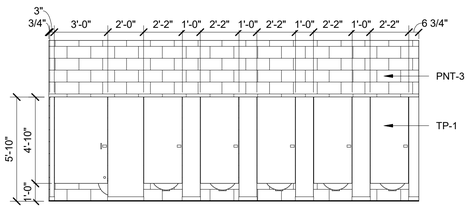
14 A-452 LAUNDRY
1/4" = 1'-0"



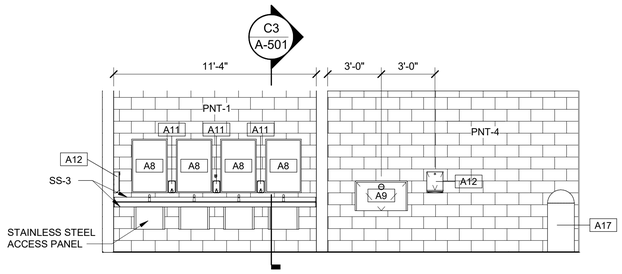
13 A-452 HOME TRAINER
1/4" = 1'-0"



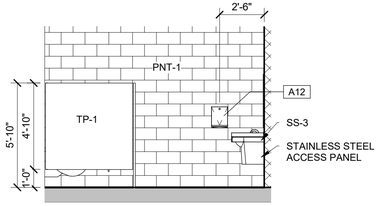
12 A-452 ENTRY WALL
1/4" = 1'-0"



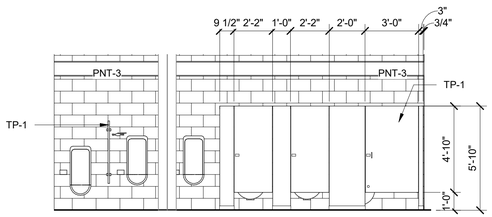
11 A-452 WOMENS RESTROOM - A
1/4" = 1'-0"



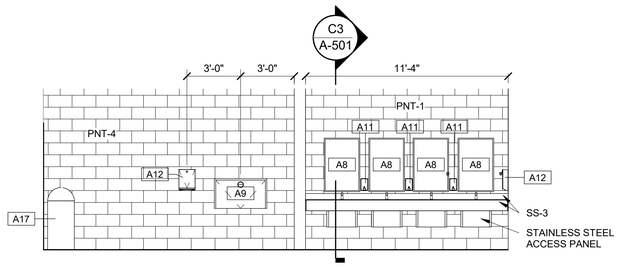
10 A-452 WOMENS RESTROOM - B
1/4" = 1'-0"



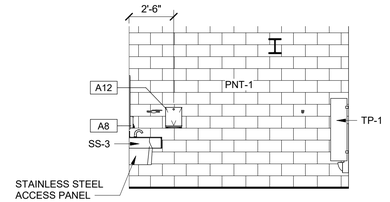
9 A-452 WOMENS RESTROOM - C
1/4" = 1'-0"



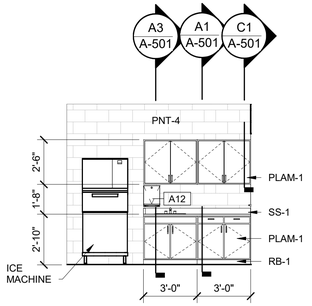
8 A-452 MENS RESTROOM - A
1/4" = 1'-0"



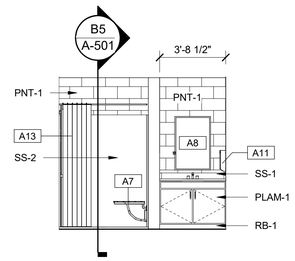
7 A-452 MENS RESTROOM - B
1/4" = 1'-0"



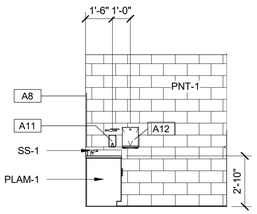
6 A-452 MENS RESTROOM - C
1/4" = 1'-0"



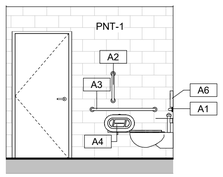
5 A-452 VISITOR TRAINER
1/4" = 1'-0"



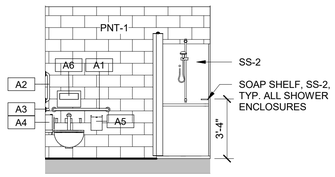
4 A-452 OFFICIALS RESTROOM - A
1/4" = 1'-0"



3 A-452 OFFICIALS RESTROOM - B
1/4" = 1'-0"



2 A-452 OFFICIALS RESTROOM - C
1/4" = 1'-0"



1 A-452 OFFICIALS RESTROOM - D
1/4" = 1'-0"

1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

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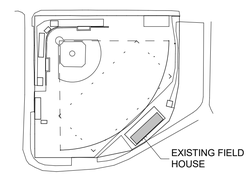

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PROJECT NUMBER

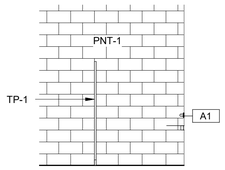
60699711

SHEET TITLE

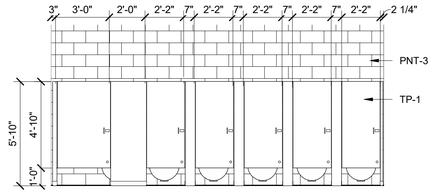
INTERIOR ELEVATIONS - EXISTING FIELD HOUSE

SHEET NUMBER

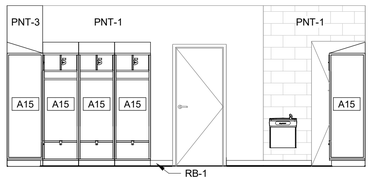
A-452



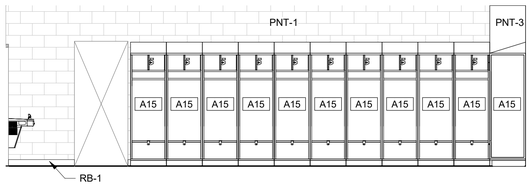
13 A-453 EXT WOMENS RESTROOM - A
1/4" = 1'-0"



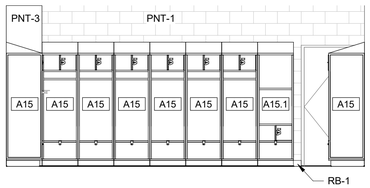
12 A-453 EXT WOMENS RESTROOM - B
1/4" = 1'-0"



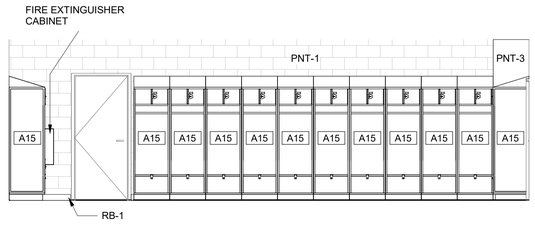
11 A-453 EXT LOCKER ROOM - A
1/4" = 1'-0"



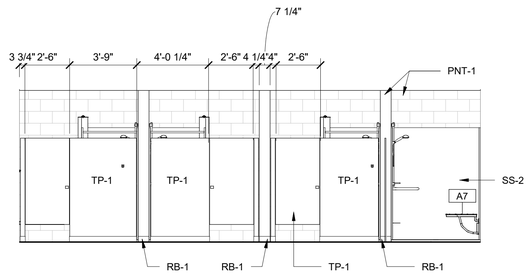
10 A-453 EXT LOCKER ROOM - B
1/4" = 1'-0"



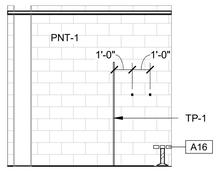
9 A-453 EXT LOCKER ROOM - C
1/4" = 1'-0"



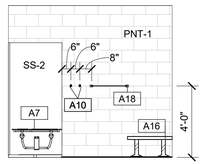
8 A-453 EXT LOCKER ROOM - D
1/4" = 1'-0"



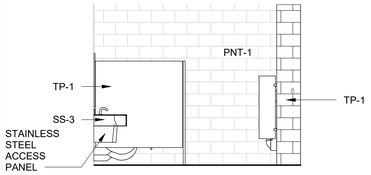
7 A-453 VISITOR SHOWERS - A
1/4" = 1'-0"



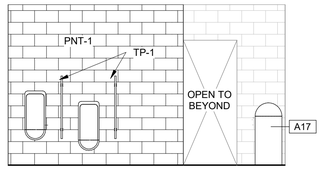
6 A-453 VISITOR SHOWERS - B
1/4" = 1'-0"



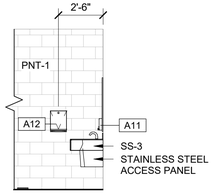
5 A-453 VISITOR SHOWERS - C
1/4" = 1'-0"



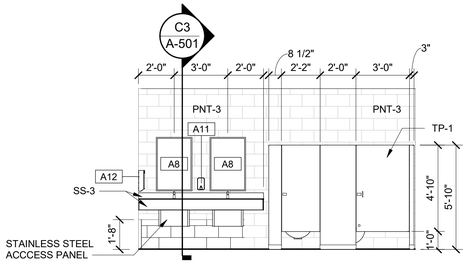
4 A-453 VISITOR RESTROOM - A
1/4" = 1'-0"



3 A-453 VISITOR RESTROOM - B
1/4" = 1'-0"



2 A-453 VISITOR RESTROOM - C
1/4" = 1'-0"



1 A-453 VISITOR RESTROOM - D
1/4" = 1'-0"

4' 2' 0 4' 8'
1/4"=1'-0"

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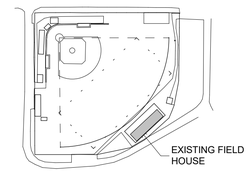

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INTERIOR ELEVATIONS - EXISTING FIELD HOUSE

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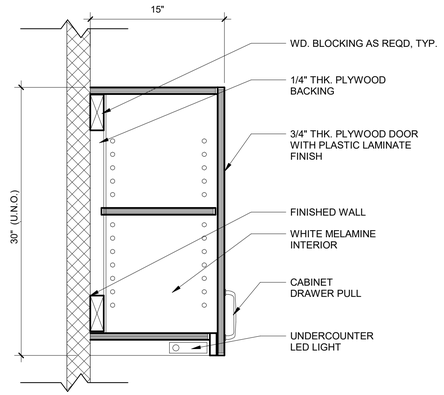
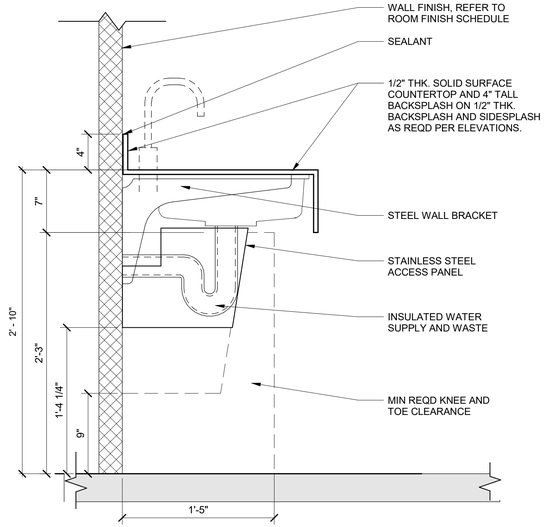


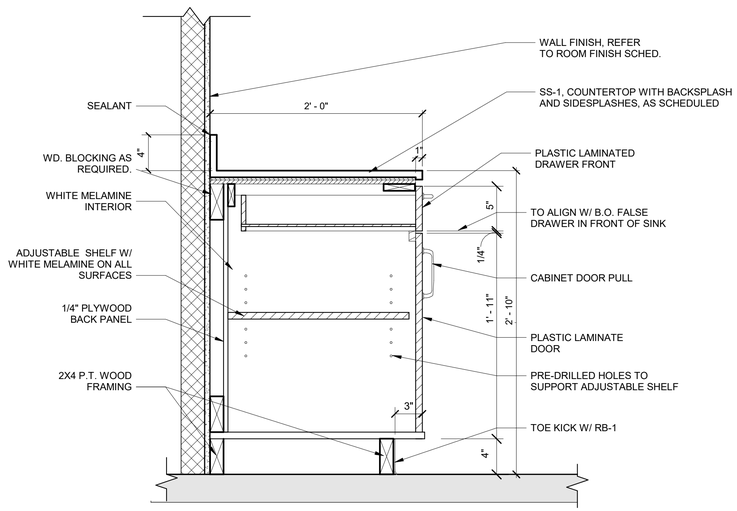
C1 / A-501 CASEWORK - UPPER CABINET

1 1/2" = 1'-0"



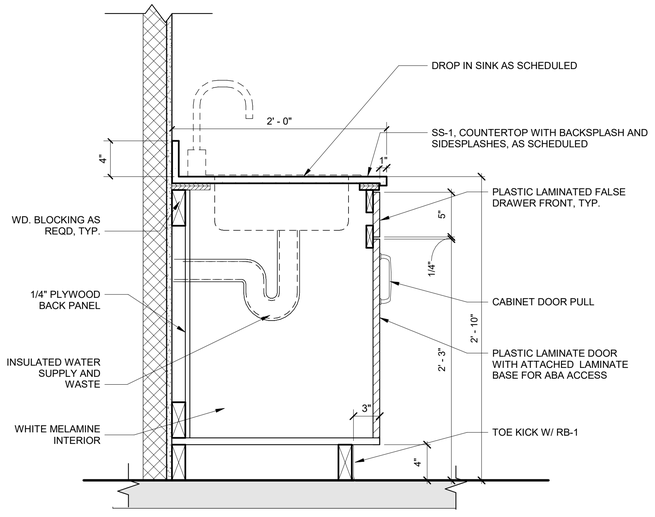
C3 / A-501 CASEWORK - ADA RESTROOM SINK

1 1/2" = 1'-0"



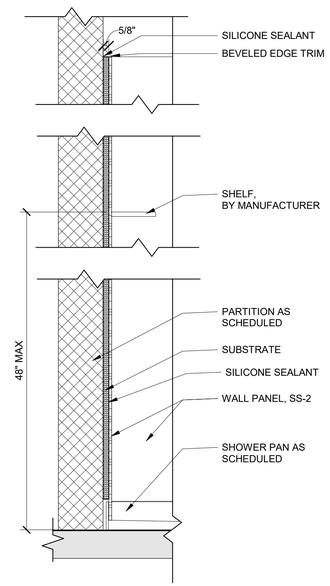
A1 / A-501 CASEWORK - DRAWER & DOOR

1 1/2" = 1'-0"



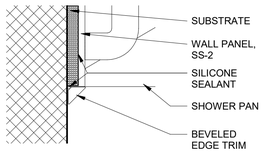
A3 / A-501 CASEWORK - SINK CABINET

1 1/2" = 1'-0"



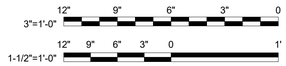
B5 / A-501 SECTION - SHOWER

1 1/2" = 1'-0"



A5 / A-501 SHOWER EDGE TRIM

3" = 1'-0"



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SHEET TITLE

CASEWORK DETAILS

SHEET NUMBER

A-501

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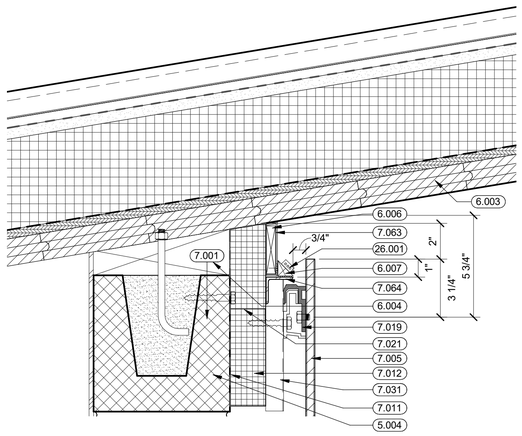
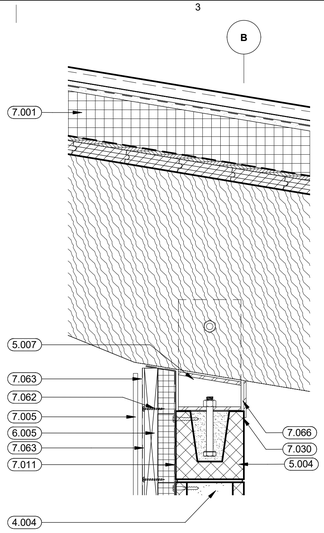
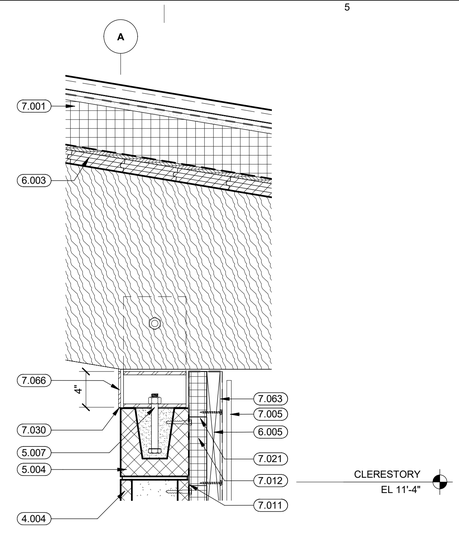


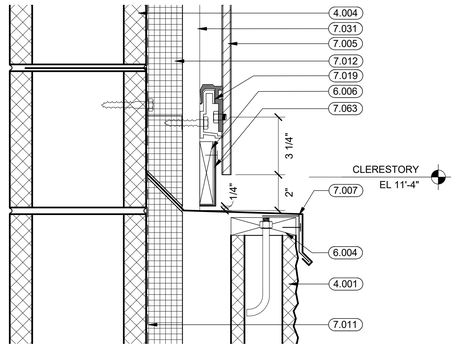
C1 / A-511 DETAIL - HPL TO ROOF DECK
3" = 1'-0"



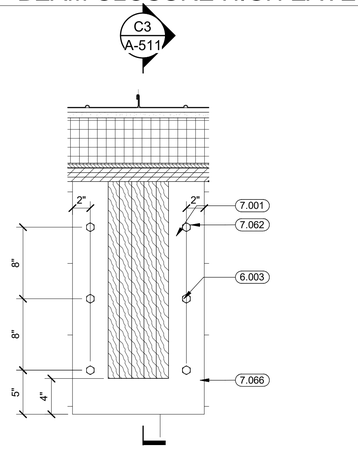
C3 / A-511 DETAIL - BEAM CLOSURE HIGH EAVE
1 1/2" = 1'-0"



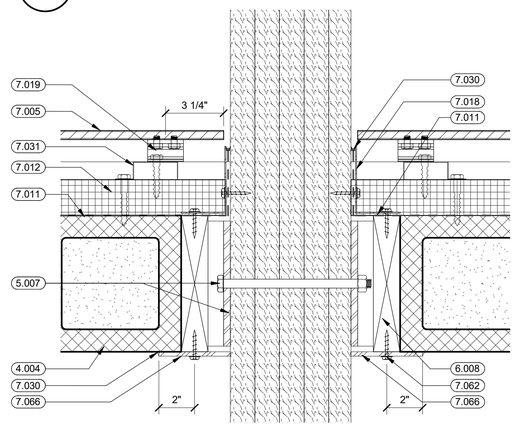
C5 / A-511 DETAIL - BEAM CLOSURE LOW EAVE
1 1/2" = 1'-0"



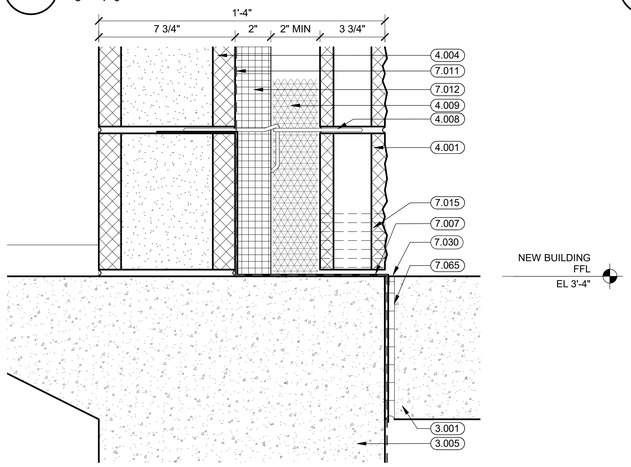
B1 / A-511 DETAIL - SPLIT FACE TO HPL
3" = 1'-0"



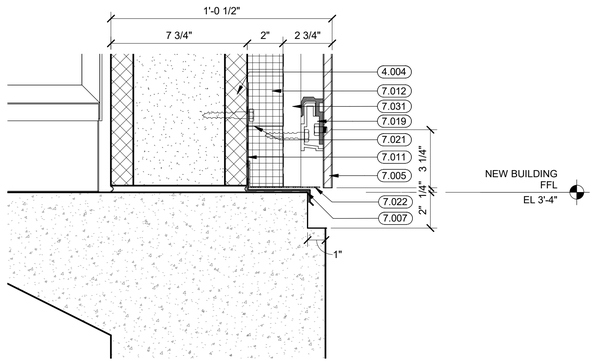
B3 / A-511 DETAIL - BEAM CLOSURE - ELEV
1 1/2" = 1'-0"



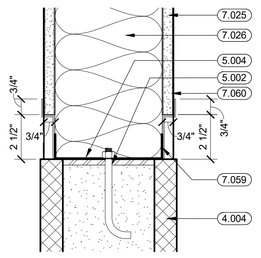
B5 / A-511 DETAIL - BEAM CLOSURE PLAN
3" = 1'-0"



A1 / A-511 DETAIL - CONCRETE SLAB TO SPLIT FACE
3" = 1'-0"



A3 / A-511 DETAIL - CONCRETE SLAB TO HPL
3" = 1'-0"



A5 / A-511 DETAIL - REVEAL AT CMU/STUD WALL
3" = 1'-0"

SHEET KEYNOTES:

3.001	CONCRETE STRUCTURAL SLAB WITH INTEGRAL COLOR, SEE STRUCTURAL
3.005	CONCRETE FOUNDATION WALL WITH INTEGRAL COLOR, SEE STRUCTURAL
4.001	SPLIT FACE MASONRY VENEER WITH INTEGRAL COLOR, FINISH AS SCHEDULED
4.004	8" NOMINAL REINFORCED CMU, PNT WHERE EXPOSED
4.008	ADJUSTABLE MASONRY TIE
4.009	MORTAR/CAVITY CONTROL NET
5.002	STEEL LINTEL, SEE STRUCTURAL
5.004	6" RUNNER TRACK
5.007	STEEL BEAM SADDLE, TYP AT ENDS OF EACH BEAM, SEE STRUCTURAL
6.003	1 1/2" X 6" TONGUE AND GROOVE STRUCTURAL WOOD DECKING WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE
6.004	WOOD BLOCKING INFILL, SEE STRUCTURAL, PNT WHERE EXPOSED TO MATCH CMU FINISH
6.005	CONTINUOUS TREATED 2X4 WOOD BLOCKING ATTACHED TO HORIZONTAL Z-GIRTS
6.006	CONTINUOUS TREATED 1X4 WOOD BLOCKING ATTACHED TO VERTICAL J-CHANNEL
6.007	CONTINUOUS 1X1 TRIANGULAR TREATED WOOD BLOCKING SET IN BED OF SEALANT
6.008	CONTINUOUS 1X8 TREATED WOOD BLOCKING
7.001	ROOF TYPE 1: STANDING SEAM METAL ROOF, ZINC WITH INTEGRAL COLOR PER FINISH SCHEDULE
7.005	HIGH PRESSURE LAMINATE PANEL CLADDING SYSTEM WITH ARCHITECTURAL WOOD FINISH AS SCHEDULED
7.007	PREFINISHED METAL FLASHING WITH HOLD DOWN CLIPS, FINISH AS SCHEDULED
7.011	CONTINUOUS FLUID APPLIED AIR BARRIER
7.012	2" RIGID INSULATION
7.015	WEEP VENT
7.018	METAL CLOSURE PANEL, FINISH AS SCHEDULED
7.019	PANEL BRACKET
7.021	Z-GIRT AND ANCHOR
7.022	VENT SCREEN
7.025	(1) LAYER 5/8" GWB BOTH SIDES
7.026	6" BATT INSULATION
7.030	SEALANT
7.031	J-CHANNEL
7.059	FRY REGLET REVEAL BASE, PNT TO MATCH STUD WALL
7.060	TAPE AND JOINT COMPOUND
7.062	STAINLESS STEEL SCREWS EACH SIDE AT 8" VERTICALLY
7.063	PREFINISHED METAL REVEAL TRIM
7.064	METAL ANGLE
7.065	1/2" JOINT FILLER
7.066	1/4" U-PROFILE METAL CLOSURE PANEL OVER SADDLE POCKET, TYP AT END OF EACH BEAM
26.001	LIGHTING FIXTURE AS SCHEDULED, SEE ELECTRICAL

GRAPHIC SCALES

1-1/2"=1'-0" 12" 9" 6" 3" 0 1'

3"=1'-0" 12" 9" 6" 3" 0

6"=1'-0" 6" 5" 4" 3" 2" 1" 0

READY FOR CONSTRUCTION

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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COMMONWEALTH OF VIRGINIA
RICHARD THRASHER
Lic. No. 007490
5 May 2023
ARCHITECT

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

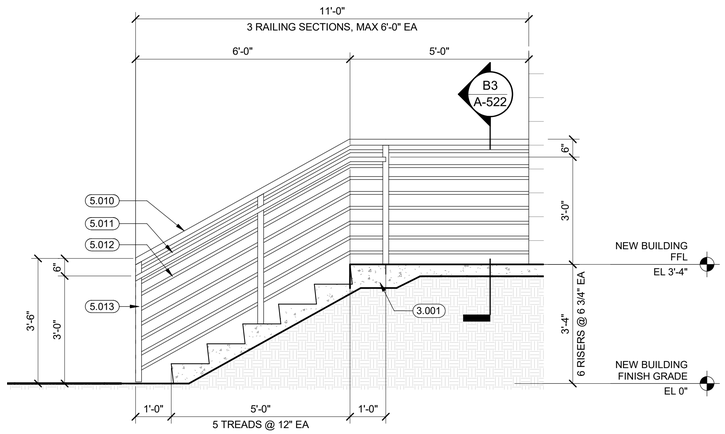
60699711

SHEET TITLE

WALL DETAILS

SHEET NUMBER

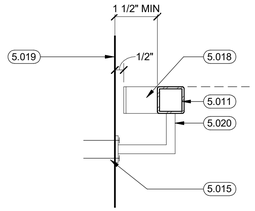
A-511



D1 A-522

SECTION - ENTRY STAIR

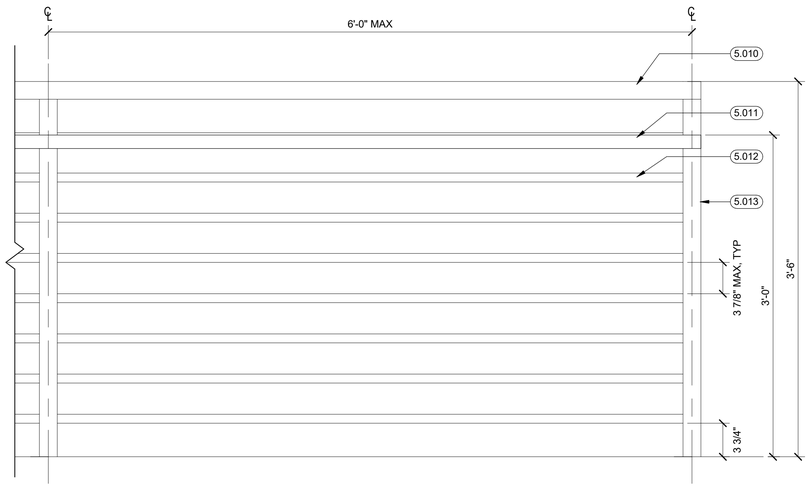
1/2" = 1'-0"

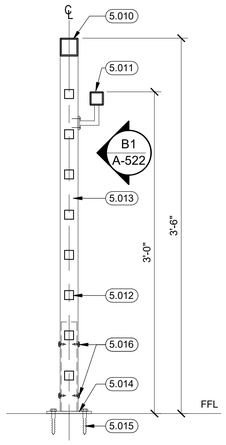


D3 A-522

DETAIL - WALL MOUNTED HANDRAIL

3" = 1'-0"





B1 A-522

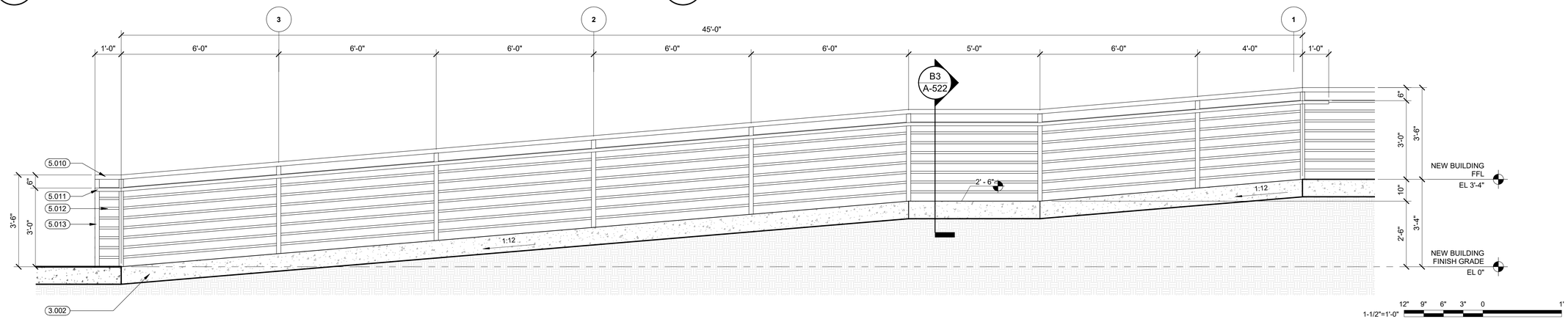
ELEVATION - TYPICAL RAILING

1 1/2" = 1'-0"

B3 A-522

SECTION - TYPICAL RAILING

1 1/2" = 1'-0"



A1 A-522

SECTION - ACCESSIBLE RAMP

1/2" = 1'-0"

GRAPHIC SCALES

12" 9" 6" 3" 0 1'
1-1/2"=1'-0"

12" 6" 0 1' 2' 3' 4' 5'
1/2"=1'-0"

SHEET KEYNOTES:

3.001	CONCRETE STRUCTURAL SLAB WITH INTEGRAL COLOR, SEE STRUCTURAL
3.002	CONCRETE ACCESSIBLE RAMP WITH INTEGRAL COLOR, SEE STRUCTURAL
5.010	2" SQUARE O/D GALVANIZED STEEL TOP RAIL
5.011	1.5" SQUARE O/D GALVANIZED STEEL HANDRAIL, EDGE RADIUS MIN 0.01"
5.012	1" SQUARE O/D GALVANIZED STEEL HORIZONTAL BAR
5.013	2" SQUARE O/D GALVANIZED STEEL POST
5.014	5" SQUARE O/D GALVANIZED STEEL BASE PLATE WELDED TO STANCHION
5.015	CONCRETE LAG SCREWS PER ENGINEERING REQUIREMENTS
5.016	POST/STANCHION ATTACHMENT SCREW, 2 PER SIDE
5.018	RETURN HANDRAIL END TO WALL. PROVIDE NO MORE THAN 1/2" GAP BETWEEN WALL AND RETURNED END. PROVIDE END CAP ON HANDRAIL
5.019	LINE OF WALL
5.020	GALVANIZED STEEL WALL BRACKET

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REGISTRATION

COMMONWEALTH OF VIRGINIA
RICHARD THRASHER
Lic. No. 007490
5 May 2023
ARCHITECT

SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

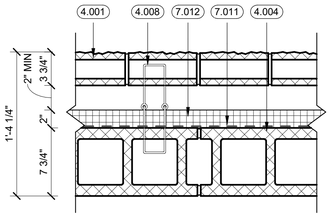
SHEET TITLE

STAIR AND RAILING DETAILS

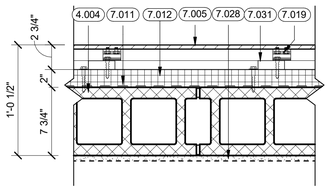
SHEET NUMBER

A-522

READY FOR CONSTRUCTION

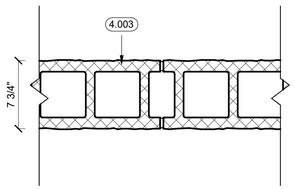


EW1 NON-RATED 8" CMU



EW2 NON-RATED 8" CMU, RIGID INSULATION, HPL CLADDING SYSTEM

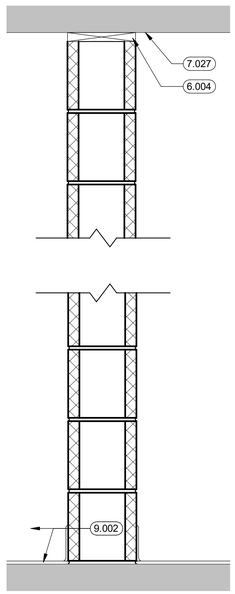
EW2A NON-RATED 8" CMU, (1) LAYER 5/8" GWB INTERIOR



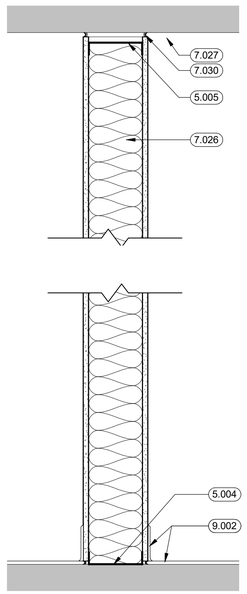
EW3 NON-RATED 8" SPLIT FACE CMU, PARTIAL HEIGHT 4'-0" AFF

EXTERIOR WALL TYPES

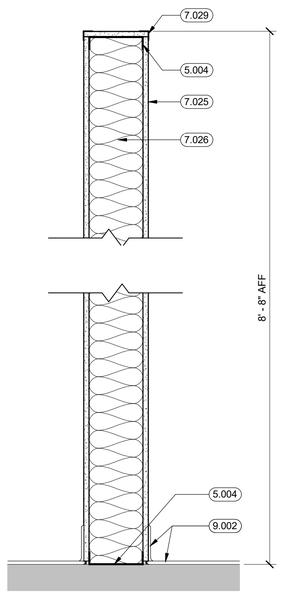
1 1/2" = 1'-0"



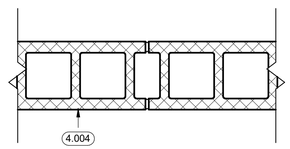
VERTICAL SECTION



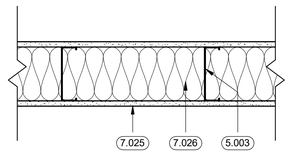
VERTICAL SECTION



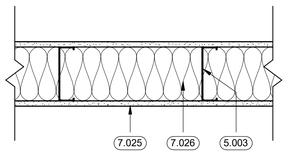
VERTICAL SECTION



PLAN SECTION



PLAN SECTION



PLAN SECTION

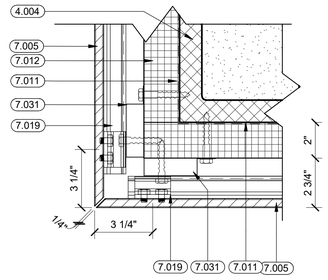
P1 NON-RATED 8" CMU, PNT

P2 6" METAL STUDS @ 16" O.C. W/ GWB BOTH SIDES

P2A 6" METAL STUDS @ 16" O.C. W/ GWB BOTH SIDES, PARTIAL HEIGHT

INTERIOR PARTITION TYPES

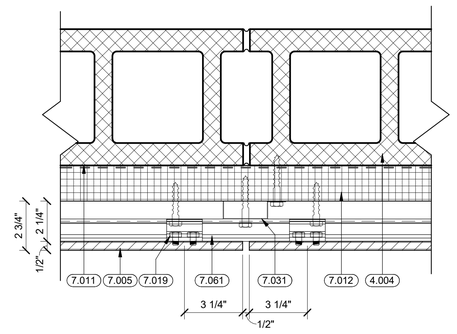
1 1/2" = 1'-0"



C5 / A-601

DETAIL - HPL PANEL CORNER

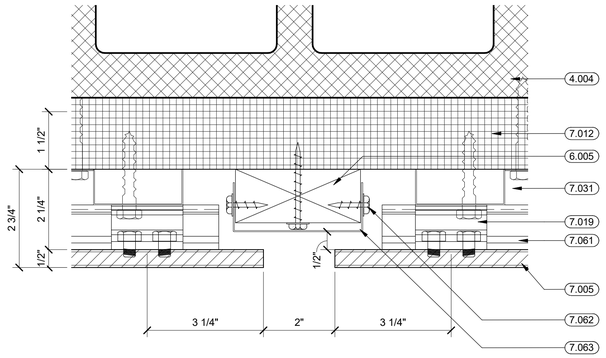
3" = 1'-0"



B5 / A-601

DETAIL - HPL VERTICAL PANEL JOINT

3" = 1'-0"



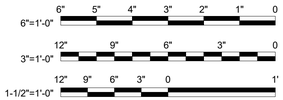
A5 / A-601

DETAIL - HPL VERTICAL REVEAL

6" = 1'-0"

SHEET KEYNOTES:

4.001	SPLIT FACE MASONRY VENEER WITH INTEGRAL COLOR, FINISH AS SCHEDULED
4.003	SPLIT FACE MASONRY BLOCK WITH INTEGRAL COLOR, FINISH AS SCHEDULED
4.004	8" NOMINAL REINFORCED CMU, PNT WHERE EXPOSED
4.008	ADJUSTABLE MASONRY TIE
5.003	6" 20 GAUGE METAL STUDS @ 16" OC
5.004	6" RUNNER TRACK
5.005	PROVIDE DEFLECTION TRACK ASSEMBLY
6.004	WOOD BLOCKING INFILL, SEE STRUCTURAL, PNT WHERE EXPOSED TO MATCH CMU FINISH
6.005	CONTINUOUS TREATED 2X4 WOOD BLOCKING ATTACHED TO HORIZONTAL Z-GIRTS
7.005	HIGH PRESSURE LAMINATE PANEL CLADDING SYSTEM WITH ARCHITECTURAL WOOD FINISH AS SCHEDULED
7.011	CONTINUOUS FLUID APPLIED AIR BARRIER
7.012	2" RIGID INSULATION
7.019	PANEL BRACKET
7.025	(1) LAYER 5/8" GWB BOTH SIDES
7.026	6" BATT INSULATION
7.027	UNDERSIDE OF STRUCTURE, SEE STRUCTURAL
7.028	(1) LAYER 5/8" GWB ONE SIDE, SET WITH ADHESIVE
7.029	CORNER BEAD, MUD AND SAND SMOOTH, TYP BOTH SIDES
7.030	SEALANT
7.031	J-CHANNEL
7.061	RAIL
7.062	STAINLESS STEEL SCREWS EACH SIDE AT 8" VERTICALLY
7.063	PREFINISHED METAL REVEAL TRIM
9.002	FLOOR AND BASE AS SCHEDULED, FINISH AS SCHEDULED



GRAPHIC SCALES

AECOM

PROJECT

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COMMONWEALTH OF VIRGINIA
RICHARD THRASHER
Lic. No. 007490
5 May 2023
ARCHITECT

SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

SHEET TITLE

PARTITION AND FLOOR TYPES AND DETAILS

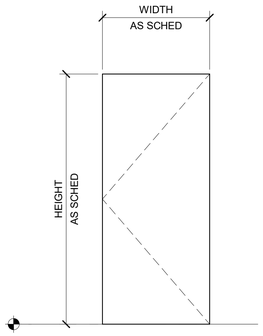
SHEET NUMBER

A-601

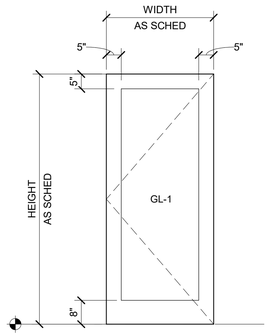
READY FOR CONSTRUCTION

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	DOOR INFORMATION							FRAME INFORMATION						HW SET	COMMENTS:
		SIZE		DOOR MATL	DOOR FINISH	UNDER CUT	GLASS TYPE	FIRE RATING	FRAME TYPE	FRAME MATL	FRAME FINISH	DETAILS				
		WIDTH	HEIGHT									HEAD	JAMB	SILL		
E103	D	3' - 0"	7' - 0"	WD	STAIN		GL-2		F1	HM	PAINT	D3/A-612	B3/A-612			
E105	A	3' - 0"	7' - 0"	HM	PAINT	-	-	-	F1	HM	PAINT	A1/A-612	A3/A-612	*		* ALUMINUM THRESHOLD
E105A	A	2' - 6"	7' - 0"	HM	PAINT	3/4"	-	-	F1	HM	PAINT	D3/A-612	B3/A-612			
E105B	A	3' - 0"	7' - 0"	HM	PAINT	3/4"	-	-	F1	HM	PAINT	D4/A-612	B4/A-612			
E106	A	3' - 0"	7' - 0"	HM	PAINT	-	-	-	F1	HM	PAINT	A1/A-612	A3/A-612	*		* ALUMINUM THRESHOLD
E107	A	3' - 0"	7' - 0"	HM	PAINT	-	-	-	F1	HM	PAINT	A1/A-612	A3/A-612	*		* ALUMINUM THRESHOLD
100A	B	3' - 6"	8' - 0"	ALUM	PREFIN	-	GL-1	-	AL1	AL	PREFIN	A4/A-611, B4/A-611	A1/A-611, A3/A-611	B3/A-611 / *		* ALUMINUM THRESHOLD
100B	B	3' - 6"	8' - 0"	ALUM	PREFIN	-	GL-1	-	AL1	AL	PREFIN	A4/A-611, B4/A-611	A1/A-611, A3/A-611	B3/A-611 / *		* ALUMINUM THRESHOLD
100C	C	4' - 0"	7' - 6"	WD	PAINT	3/4"	-	-	F1	HM	PAINT	D3/A-612	B3/A612	-		
101	D	3' - 0"	7' - 0"	WD	STAIN		GL-2	-	F1	HM	PAINT	D3/A-612	B3/A612			
102	A	3' - 0"	7' - 0"	WD	STAIN	3/4"	-	-	F1	HM	PAINT	D3/A-612	B3/A612			
103	D	3' - 0"	7' - 0"	WD	STAIN	-	GL-2	-	F1	HM	PAINT	D3/A-612	B3/A612			
105	A	3' - 6"	7' - 0"	WD	PAINT	3/4"	-	-	F1	HM	PAINT	D3/A-612	B3/A612			
105A	A	3' - 0"	7' - 0"	WD	PAINT	-	-	-	F1	HM	PAINT	D3/A-612	B3/A612			
106	C	6' - 0"	7' - 0"	HM	PAINT	-	-	-	F1	HM	PAINT	D1/A-612	B1/A-612	*		* ALUMINUM THRESHOLD



A



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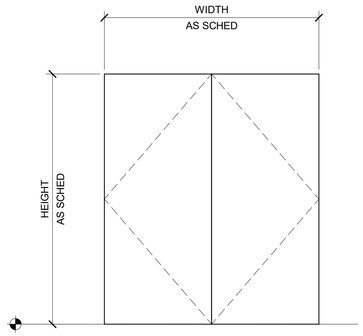
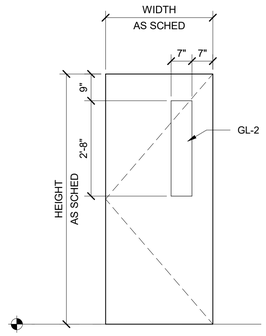


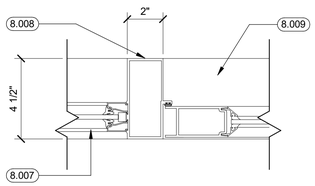
C



D

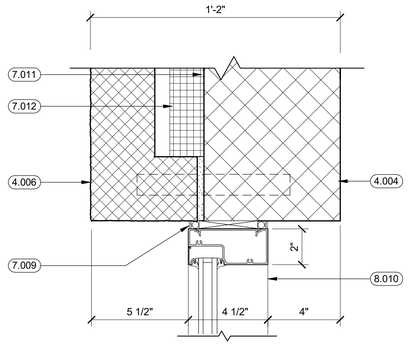
DOOR TYPES

1/2" = 1'-0"



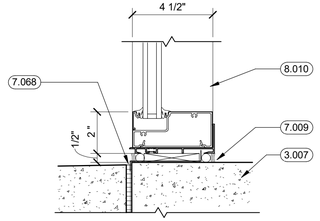
B1 / A-611 JAMB DETAIL@ STOREFRONT DOOR

3" = 1'-0"



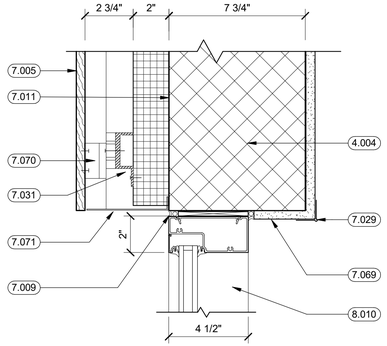
A1 / A-611 ALUM FRAME JAMB DETAIL LOWER

3" = 1'-0"



B3 / A-611 SILL DETAIL - STOREFRONT

3" = 1'-0"

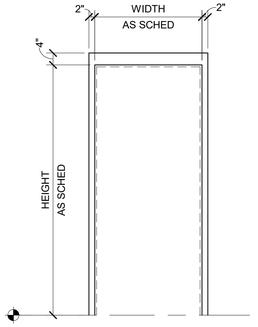


A3 / A-611 ALUM FRAME JAMB DETAIL -UPPER

3" = 1'-0"

FRAME TYPES

1/2" = 1'-0"



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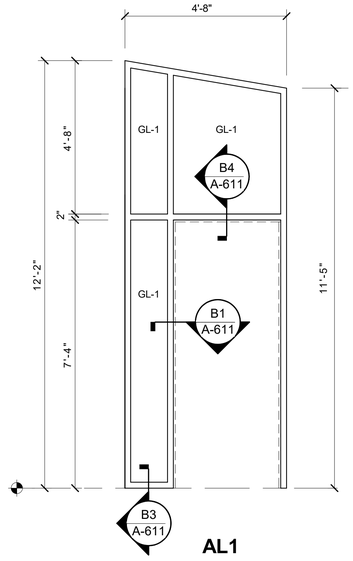
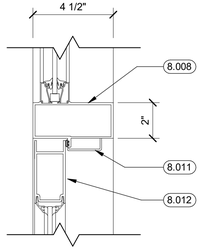


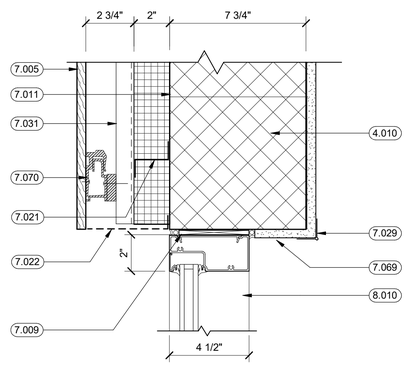
AL1

SEE WINDOW TYPE W1 ON SHEET A-604



B4 / A-611 HEAD DETAIL@ STOREFRONT DOOR

3" = 1'-0"



A4 / A-611 ALUM FRAME HEAD DETAIL

3" = 1'-0"

GLAZING TYPES:

GL-1: 1" THICK INSULATED GLASS UNIT, TINTED, LOW-E

GL-2: 1/4" THICK CLEAR TEMPERED GLASS

GL-3 1 5/16" THICK LAMINATED INSULATED GLASS UNIT, LOW-E

SHEET KEYNOTES:

3.007	CONCRETE SLAB ON GRADE, REFER TO STRUCTURAL DRAWINGS
4.004	8" NOMINAL REINFORCED CMU, PNT WHERE EXPOSED
4.006	PREFAB SPLIT FACE CMU CORNER UNIT, TYP
4.010	REINFORCED CMU/LINTEL, SEE STRUCTURAL
7.005	HIGH PRESSURE LAMINATE PANEL CLADDING SYSTEM WITH ARCHITECTURAL WOOD FINISH AS SCHEDULED
7.009	CONTINUOUS SEALANT AND BACKER ROD ALL SIDES
7.011	CONTINUOUS FLUID APPLIED AIR BARRIER
7.012	2" RIGID INSULATION
7.021	Z-GIRT AND ANCHOR
7.022	VENT SCREEN
7.029	CORNER BEAD, MUD AND SAND SMOOTH, TYP BOTH SIDES
7.031	J-CHANNEL
7.068	STAINLESS STEEL SILL FLASHING WITH END DAMS SET IN BED OF BUTYL SEALANT
7.069	1/2" GWB WITH J-BEAD
7.070	RAINSCREEN BRACKET SYSTEM
7.071	RAINSCREEN SYSTEM CLOSURE TRIM
8.007	GLAZING AS SCHEDULED
8.008	THERMALLY BROKEN ALUMINUM FRAME
8.009	ALUMINUM DOOR THRESHOLD BELOW
8.010	ALUMINUM FRAMED STOREFRONT SYSTEM
8.011	DOOR STOP
8.012	TOP RAIL OF ALUMINUM DOOR

12" 6" 0 1' 2' 3' 4' 5"
1/2"=1'-0"

12" 9" 6" 3" 0
3"=1'-0"

GRAPHIC SCALES

READY FOR CONSTRUCTION

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PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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RICHARD THRASHER
Lic. No. 007490
5 May 2023
ARCHITECT

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

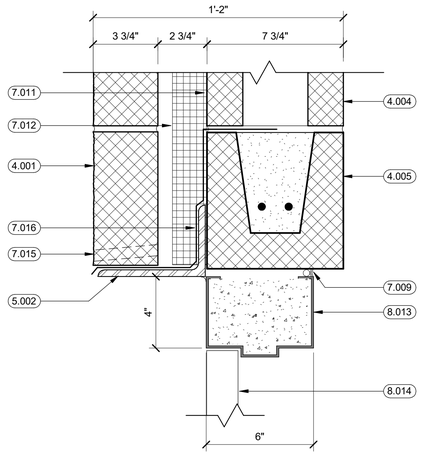
60699711

SHEET TITLE

DOOR SCHEDULE, DOOR TYPES AND DETAILS

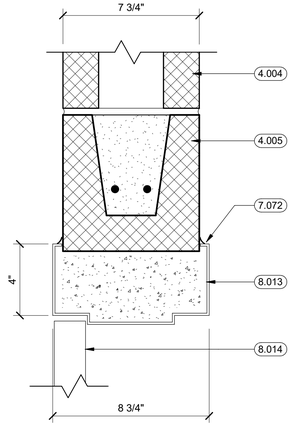
SHEET NUMBER

A-611



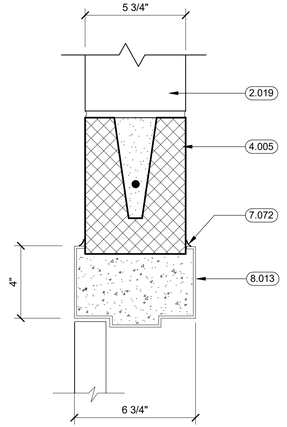
D1 / A-612 HM FRAME HEAD DETAIL

3" = 1'-0"



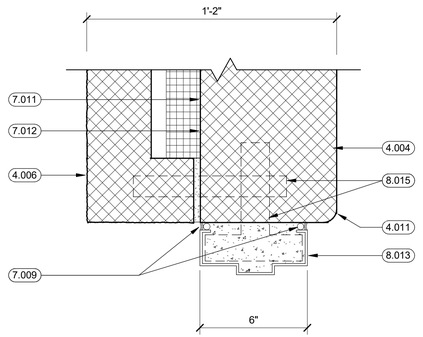
D3 / A-612 HM FRAME HEAD DETAIL

3" = 1'-0"



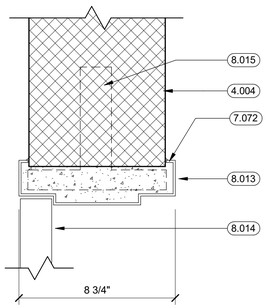
D4 / A-612 HM FRAME HEAD DETAIL

3" = 1'-0"



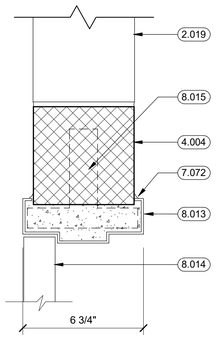
B1 / A-612 HM FRAME JAMB DETAIL

3" = 1'-0"



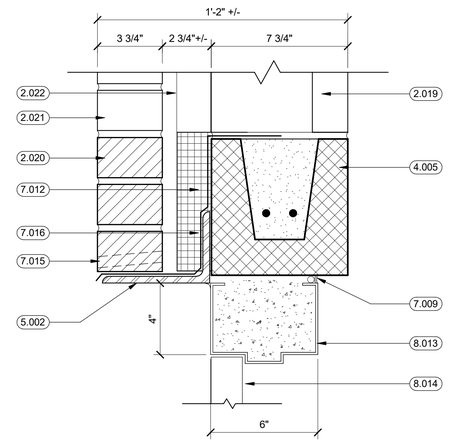
B3 / A-612 HM FRAME JAMB DETAIL

3" = 1'-0"



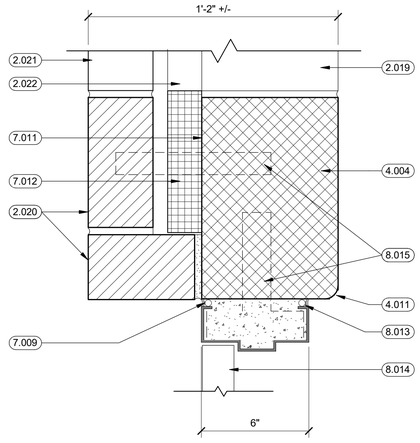
B4 / A-612 HM FRAME JAMB DETAIL

3" = 1'-0"



A1 / A-612 HM FRAME HEAD DETAIL-EXST BRICK

3" = 1'-0"



A3 / A-612 HM FRAME JAMB DETAIL-EXST BRICK

3" = 1'-0"

SHEET KEYNOTES:

2.019	EXISTING CMU
2.020	EXISTING SALVAGED BRICK
2.021	EXISTING BRICK
2.022	EXISTING INSULATION
4.001	SPLIT FACE MASONRY VENEER WITH INTEGRAL COLOR, FINISH AS SCHEDULED
4.004	8" NOMINAL REINFORCED CMU, PNT WHERE EXPOSED
4.005	CMU BOND BEAM, SEE STRUCTURAL
4.006	PREFAB SPLIT FACE CMU CORNER UNIT, TYP
4.011	BULLNOSE, TYP
5.002	STEEL LINTEL, SEE STRUCTURAL
7.009	CONTINUOUS SEALANT AND BACKER ROD ALL SIDES
7.011	CONTINUOUS FLUID APPLIED AIR BARRIER
7.012	2" RIGID INSULATION
7.015	WEEP VENT
7.016	CONTINUOUS METAL FLASHING
7.072	CONTINUOUS SEALANT BOTH SIDES
8.013	HOLLOW METAL DOOR FRAME, GROUT FULL
8.014	DOOR AS SCHEDULED
8.015	ANCHORS, MIN 3 PER JAMB

GRAPHIC SCALES

3"=1'-0" 12" 9" 6" 3" 0

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SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

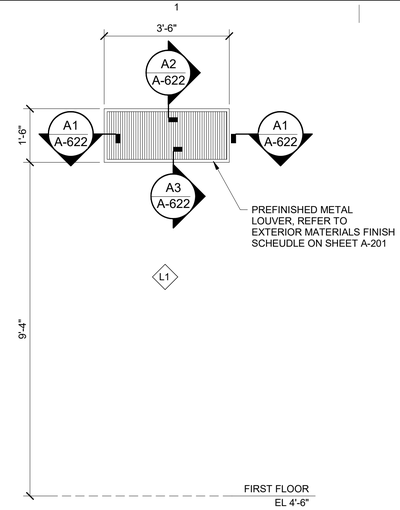
60699711

SHEET TITLE

DOOR DETAILS

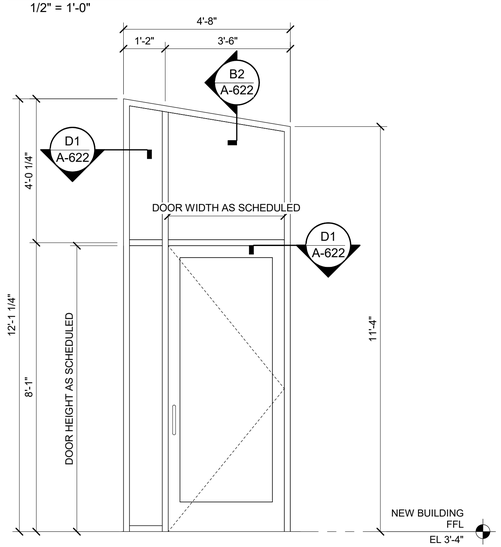
SHEET NUMBER

A-612



LOUVER TYPE L1

1/2" = 1'-0"

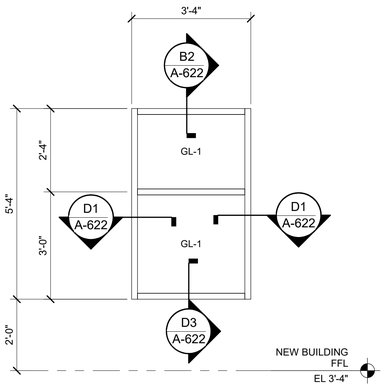


W1A EXTERIOR ALUM. AT MASONRY (FIRST FLOOR ENTRY), GL-1

W1 EXTERIOR ALUM. AT MASONRY (FIRST FLOOR FIELD SIDE ENTRY), GL-3

WINDOW TYPE W1

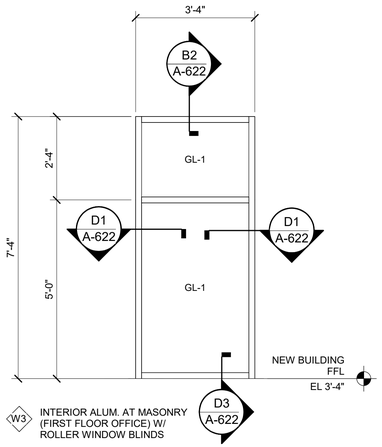
1/2" = 1'-0"



W2 EXTERIOR ALUM. AT MASONRY (FIRST FLOOR TRAINER) W/ ROLLER WINDOW BLINDS

WINDOW TYPE W2

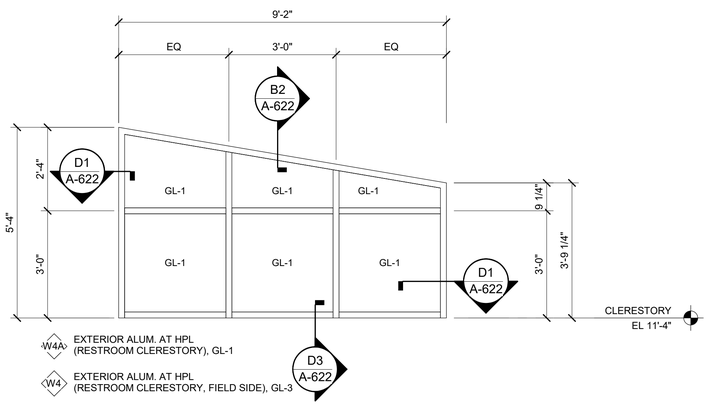
1/2" = 1'-0"



W3 INTERIOR ALUM. AT MASONRY (FIRST FLOOR OFFICE) W/ ROLLER WINDOW BLINDS

WINDOW TYPE W3

1/2" = 1'-0"

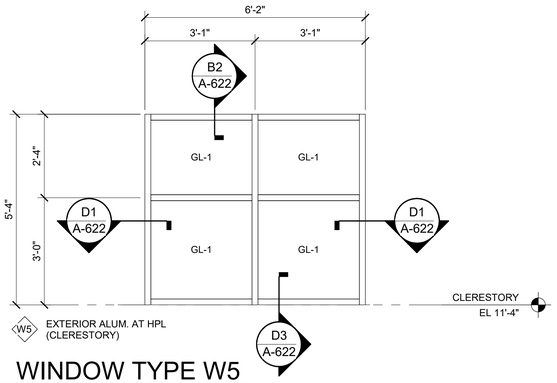


W4A EXTERIOR ALUM. AT HPL (RESTROOM CLERESTORY), GL-1

W4 EXTERIOR ALUM. AT HPL (RESTROOM CLERESTORY, FIELD SIDE), GL-3

WINDOW TYPE W4

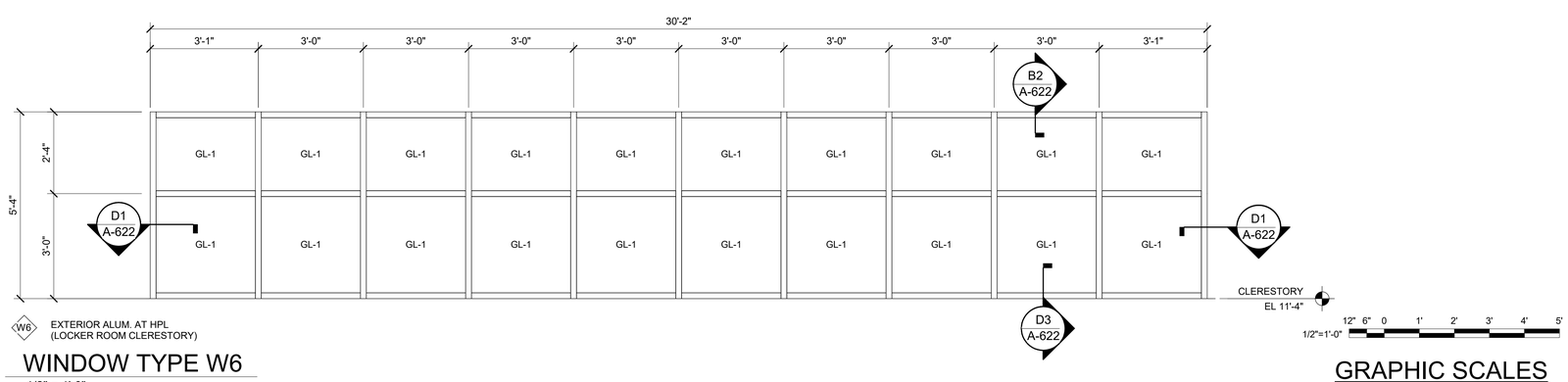
1/2" = 1'-0"



W5 EXTERIOR ALUM. AT HPL (CLERESTORY)

WINDOW TYPE W5

1/2" = 1'-0"



W6 EXTERIOR ALUM. AT HPL (LOCKER ROOM CLERESTORY)

WINDOW TYPE W6

1/2" = 1'-0"

GENERAL SHEET NOTES:

A. REFER TO SHEET G-002 FOR ABBREVIATIONS.
B. REFER TO SHEET A-001 FOR GENERAL NOTES, LEGENDS AND SYMBOLS.
C. REFER TO SHEET A-611 FOR DOOR AND FRAME TYPES.
D. FIELD VERIFY ALL DIMENSIONS OF ROUGH OPENINGS PRIOR TO FABRICATION.
E. FOR PREFINISHED METAL LOUVER. REF TO EXTERIOR MATERIALS FINISH SCHEDULE, SHEET A-201
F. FOR ANODIZED ALUMINUM STOREFRONT FRAME; REFER TO SPEC 08 41 13 AND EXTERIOR MATERIALS FINISH SCHEDULE, SHEET A-201

GLAZING TYPES:

GL-1: 1" THICK INSULATED GLASS UNIT, TINTED, LOW-E

GL-2: 1/4" THICK CLEAR TEMPERED GLASS

GL-3 1 5/16" THICK LAMINATED INSULATED GLASS UNIT, LOW-E

GRAPHIC SCALES

12" 6" 0 1' 2' 3' 4' 5'
1/2"=1'-0"

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PROJECT NUMBER

60699711

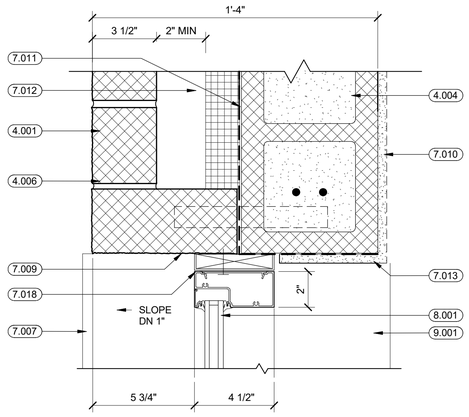
SHEET TITLE

WINDOW AND LOUVER TYPES

SHEET NUMBER

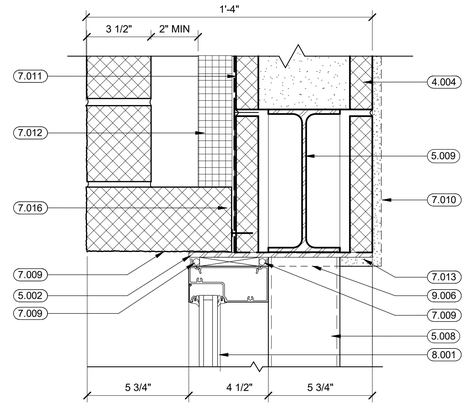
A-621

READY FOR CONSTRUCTION



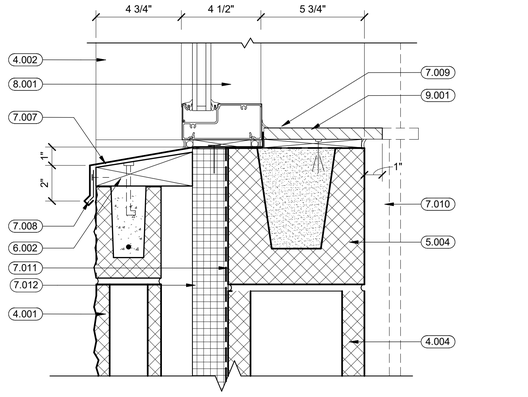
D1 / A-622 — ALUM. WINDOW FRAME JAMB DETAIL @ SPLIT FACE CMU

3" = 1'-0"



D2 / A-622 — ALUM. WINDOW FRAME HEAD DETAIL @ SPLIT FACE CMU

3" = 1'-0"



D3 / A-622 — ALUM. WINDOW FRAME SILL DETAIL @ SPLIT FACE CMU

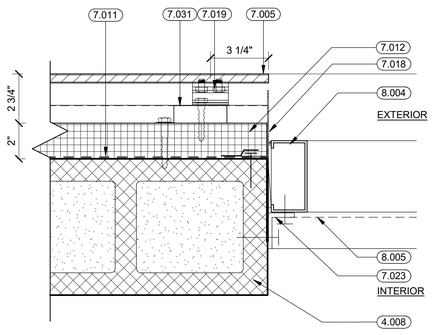
3" = 1'-0"

B1 / A-622 — ALUM. WINDOW FRAME JAMB DETAIL @ HPL

3" = 1'-0"

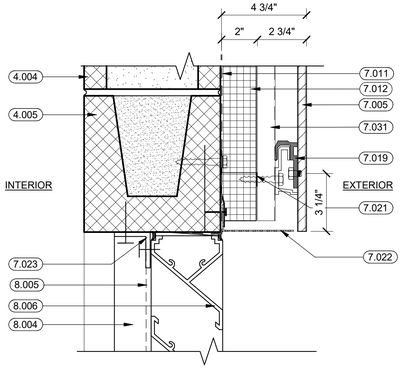
B2 / A-622 — ALUM. WINDOW FRAME HEAD DETAIL @ HPL

3" = 1'-0"



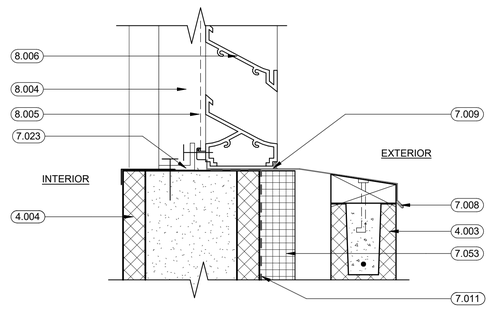
A1 / A-622 — LOUVER JAMB DETAIL

3" = 1'-0"



A2 / A-622 — LOUVER HEAD DETAIL

3" = 1'-0"



A3 / A-622 — LOUVER SILL DETAIL

3" = 1'-0"

12" 9" 6" 3" 0
3"=1'-0"

GRAPHIC SCALES

SHEET KEYNOTES:

4.001	SPLIT FACE MASONRY VENEER WITH INTEGRAL COLOR, FINISH AS SCHEDULED
4.002	SPLIT FACE CMU RETURN
4.003	SPLIT FACE MASONRY BLOCK WITH INTEGRAL COLOR, FINISH AS SCHEDULED
4.004	8" NOMINAL REINFORCED CMU, PNT WHERE EXPOSED
4.005	CMU BOND BEAM, SEE STRUCTURAL
4.006	PREFAB SPLIT FACE CMU CORNER UNIT, TYP
4.008	ADJUSTABLE MASONRY TIE
5.002	STEEL LINTEL, SEE STRUCTURAL
5.004	6" RUNNER TRACK
5.008	PNT HSS COLUMN, SEE STRUCTURAL
5.009	CMU BOXED STEEL BEAM, SEE STRUCTURAL
6.002	CONTINUOUS TREATED WOOD BLOCKING ANCHORED TO SPLIT FACE CMU
7.005	HIGH PRESSURE LAMINATE PANEL CLADDING SYSTEM WITH ARCHITECTURAL WOOD FINISH AS SCHEDULED
7.007	PREFINISHED METAL FLASHING WITH HOLD DOWN CLIPS, FINISH AS SCHEDULED
7.008	CONTINUOUS HOLD-DOWN CLIP
7.009	CONTINUOUS SEALANT AND BACKER ROD ALL SIDES
7.010	GWB ADHERED TO CMU WHERE OCCURS
7.011	CONTINUOUS FLUID APPLIED AIR BARRIER
7.012	2" RIGID INSULATION
7.013	5/8" GWB W/ J-BEAD WHERE OCCURS
7.016	CONTINUOUS METAL FLASHING
7.018	METAL CLOSURE PANEL, FINISH AS SCHEDULED
7.019	PANEL BRACKET
7.021	Z-GIRT AND ANCHOR
7.022	VENT SCREEN
7.023	ANGLE CLIP AND FASTENER
7.031	J-CHANNEL
7.053	RAKE TRIM
8.001	PAINTED ALUMINUM FRAME STOREFRONT CLERESTORY W/ LOW "E" TINTED INSULATED GLASS (GL-1)
8.004	PAINTED ALUMINUM LOUVERS AND FRAME, SEE MECHANICAL
8.005	INSECT SCREEN
8.006	DRAINABLE LOUVER BLADES
9.001	SOLID SURFACE SILL, TYP
9.006	WHERE GWB OCCURS, EXTED TO COVER LINTEL

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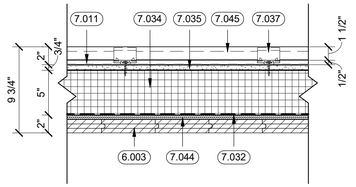
SHEET TITLE

WINDOW AND LOUVER DETAILS

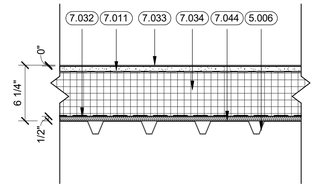
SHEET NUMBER

A-622

READY FOR CONSTRUCTION



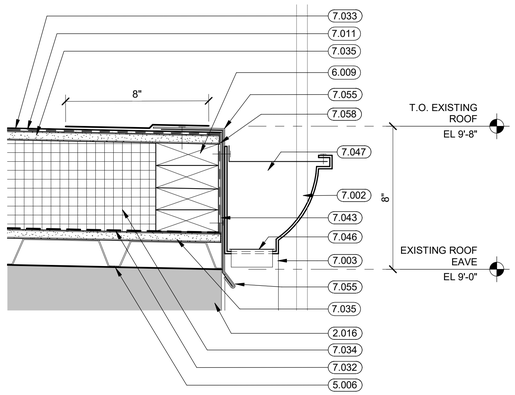
TYPE 1 STANDING SEAM METAL ROOF W/ INTEGRAL COLOR, 1/2" GLASS-MAT COVERBOARD, INSULATION, VAPOR BARRIER, 1/2" PLYWOOD SUBSTRATE, WOOD STRUCTURAL DECKING



TYPE 2 60 mil TPO SHEET, 1/2" GLASS-MAT COVERBOARD, INSULATION, VAPOR BARRIER, 1/2" GLASS MAT SHEATHING, EXISTING STEEL ROOF DECK

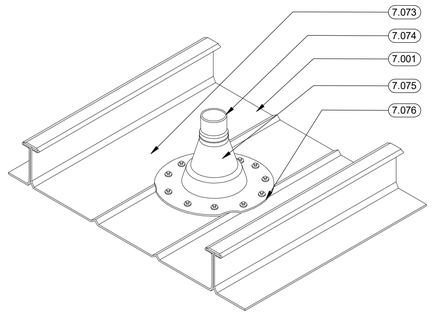
ROOF TYPES

1 1/2" = 1'-0"



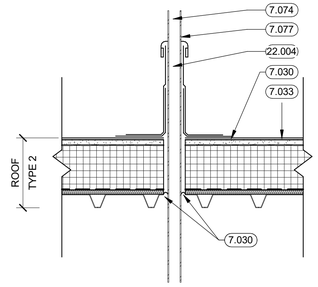
C1 / A-631 — ROOF TYPE 2 - TYPICAL EDGE

3" = 1'-0" (GUTTER ON SOUTH SIDE OF ROOF, FASCIA/EAVE TRIM ON NORTH, EAST & WEST SIDES)



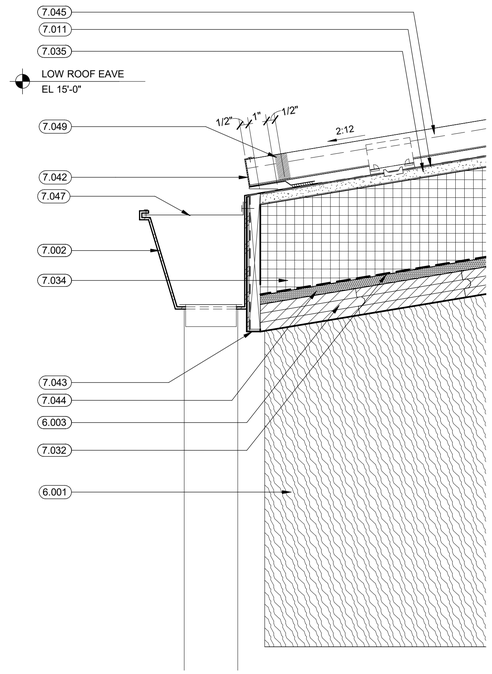
C3 / A-631 — DETAIL - ROOF PENETRATION - ROOF TYPE 1

3" = 1'-0"



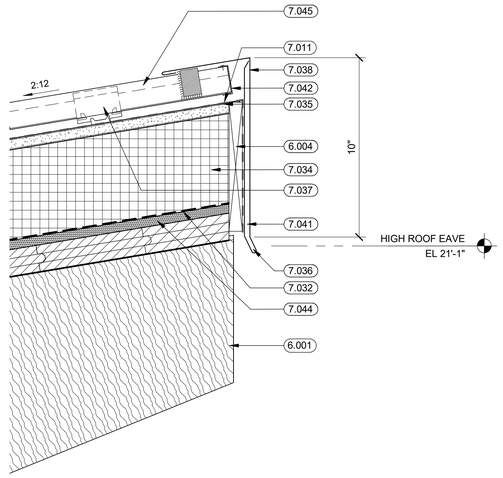
C5 / A-631 — DETAIL - ROOF PENETRATION - ROOF TYPE 2

1 1/2" = 1'-0"



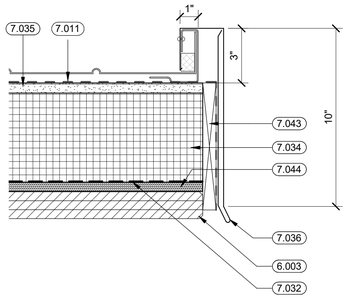
A1 / A-631 — ROOF TYPE 1 - LOW EAVE

3" = 1'-0"



B3 / A-631 — ROOF TYPE 1 - HIGH EAVE

3" = 1'-0"



B5 / A-631 — ROOF TYPE 1 - RAKE

3" = 1'-0"

SHEET KEYNOTES:

2.016	EXISTING EXTERIOR WALL: BRICK OVER CMU, CONTRACTOR TO FIELD VERIFY WALL CONSTRUCTION AND DIMENSIONS PRIOR TO WORK
5.006	EXISTING METAL ROOF DECK, SEE STRUCTURAL
6.001	TAPERED STRUCTURAL GLULAM BEAM WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE, SEE STRUCTURAL
6.003	1 1/2" X 6" TONGUE AND GROOVE STRUCTURAL WOOD DECKING WITH ARCHITECTURAL FINISH PER FINISH SCHEDULE
6.004	WOOD BLOCKING INFILL, SEE STRUCTURAL, PNT WHERE EXPOSED TO MATCH CMU FINISH
6.009	CONTINUOUS TREATED WOOD BLOCKING
7.001	ROOF TYPE 1: STANDING SEAM METAL ROOF, ZINC WITH INTEGRAL COLOR PER FINISH SCHEDULE
7.002	6"X6" PREFINISHED ALUMINUM GUTTER WITH BEVELED PROFILE
7.003	3"X4" PREFINISHED ALUMINUM DOWNSPOUT
7.011	CONTINUOUS FLUID APPLIED AIR BARRIER
7.030	SEALANT
7.032	VAPOR RETARDER
7.033	60 mil TPO MEMBRANE ROOFING SYSTEM
7.034	ROOF INSULATION, R-30CI MINIMUM
7.035	1/2" GLASS-MAT ROOF COVERBOARD
7.036	HOLD-DOWN CLEAT
7.037	PANEL CLIP WITH FASTENERS, 2 PER CLIP
7.038	SHED RIDGE TRIM, PNT TO MATCH ROOF PANELS
7.041	FASTENERS AT 24" OC MAX
7.042	PANEL END CLOSURE IN SEALANT BED
7.043	FASCIA WRAP OVER WOOD BLOCKING
7.044	1/2" PLYWOOD SHEATHING, SEE STRUCTURAL
7.045	STANDING SEAM METAL ROOF PANEL
7.046	OUTLET TUBE TO DOWNSPOUT
7.047	2" GUTTER STRAP AT 19" OC MAX
7.049	SEALANT BED SANDWICHED BETWEEN VERTICAL PANEL LEGS
7.055	PREFINISHED METAL FASCIA / EAVE TRIM WITH HEMMED DRIP EDGE
7.058	WRAP MEMBRANE MIN 3" OVER EDGE
7.073	CONDUIT PENETRATION TO BE CENTERED ON THE FLAT PART OF THE ROOF
7.074	SEAL AT TOP PER PIPE BOOT MANUFACTURERS RECOMMENDATION AND INSTALLATION GUIDELINEES
7.075	RUBBER PIPE BOOT
7.076	EPDM PIPE BOOT SET IN CONTINUOUS BED OF SEALANT AND FASTENED TO SSMR
7.077	STAINLESS STEEL CLAMPING RING
22.004	PIPE OR CONDUIT PENETRATION

GRAPHIC SCALES

3"=1'-0": 12" 9" 6" 3" 0

1-1/2"=1'-0": 12" 9" 6" 3" 0 1'

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

CASEY FIELD & BOODIE ALBERT STADIUM
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Covington, VA 24426

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REGISTRATION

COMMONWEALTH OF VIRGINIA
RICHARD THRASHER
Lic. No. 007490
5 May 2023
ARCHITECT

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

ROOF TYPES AND DETAILS

SHEET NUMBER

A-631

READY FOR CONSTRUCTION

SECTION 03 30 00 CAST-IN PLACE CONCRETE - SEE PROJECT SPECIFICATIONS FOR 3-PART DOCUMENT.

SECTION 04 20 00 UNIT MASONRY - SEE PROJECT SPECIFICATIONS FOR 3-PART DOCUMENT.

SECTION 06 10 00 ROUGH CARPENTRY - SEE PROJECT SPECIFICATIONS FOR 3-PART DOCUMENT.

SECTION 06 15 16 WOOD ROOF DECKING - SEE PROJECT SPECIFICATIONS FOR 3-PART DOCUMENT.

SECTION 06 18 00 GLUED-LAMINATED CONSTRUCTION - SEE PROJECT SPECIFICATIONS FOR 3-PART DOCUMENT.

SECTION 07 54 23 THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING - SEE SHEET A-112 ROOF PLAN.

SECTION 08 41 13 ALUMINUM FRAMED STOREFRONT - SEE PROJECT SPECIFICATIONS FOR 3-PART DOCUMENT.

SECTION 08 71 10 DOOR HARDWARE - SEE PROJECT SPECIFICATIONS FOR 3-PART DOCUMENT.

REFERENCE SECTION 12 50 00, 1.3.A FOR SUBSTITUTION REQUIREMENTS.

SECTION 05 52 00 METAL GUARDRAILS AND HANDRAILS

A. SUMMARY:
1. WORK INCLUDES: GALVANIZED STEEL PIPE GUARDRAILS AND HANDRAILS, SHOP PRIMED FOR FIELD PAINTING.
B. SUBMITTALS
1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL GUARDRAIL AND HANDRAIL COMPONENTS.
2. DELEGATED-DESIGN SUBMITTAL: FOR RAILINGS, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
3. QUALITY ASSURANCE: WELDING QUALIFICATIONS: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO THE FOLLOWING: AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE - STEEL."
C. HANDRAILS: HANDRAILS SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH ASTM A1264, ASTM E894 AND ASTM E935 TO SUPPORT:
1. 200 POUNDS CONCENTRATED LOADING APPLIED AT ANY POINT IN ANY DIRECTION
2. 50 POUNDS PER LINEAR FOOT UNIFORM LOAD APPLIED HORIZONTALLY TO TOP OF RAIL
3. HANDRAIL OUTSIDE DIAMETER 1 1/2 INCHES
4. HANDRAIL HEIGHT 36 INCHES MAXIMUM
5. HOT-DIP GALVANIZED STEEL RAILINGS INCLUDING FITTINGS, BRACKETS, FASTENERS, SLEEVES AND OTHER FERROUS COMPONENTS.
D. FABRICATION
1. GENERAL: FABRICATE RAILINGS TO COMPLY WITH REQUIREMENTS INDICATED FOR DESIGN, DIMENSIONS, MEMBER SIZES AND SPACING, DETAILS, FINISH, AND ANCHORAGE, BUT NOT LESS THAN THAT REQUIRED TO SUPPORT STRUCTURAL LOADS. FIELD MEASURE ACTUAL LOCATIONS OF WALLS, STAIRS, RAMPS AND SLABS BEFORE FABRICATION.
2. PIPE: ASTM A 53/A 53M, TYPE F OR TYPE S, GRADE A, STANDARD WEIGHT (SCHEDULE 40), UNLESS ANOTHER GRADE AND WEIGHT ARE REQUIRED BY STRUCTURAL LOADS. TUBING: ASTM A 500 (COLD FORMED) OR ASTM A 513.
3. SHOP ASSEMBLE RAILINGS TO GREATEST EXTENT POSSIBLE TO MINIMIZE FIELD SPLICING AND ASSEMBLY. FOR REQUIRED FIELD WELDS, GRIND SMOOTH AND PRIME TOUCH-UP FOR FIELD APPLIED FINISH. DISASSEMBLE UNITS ONLY AS NECESSARY FOR SHIPPING AND HANDLING LIMITATIONS. CLEARLY MARK UNITS FOR REASSEMBLY AND COORDINATED INSTALLATION. USE CONNECTIONS THAT MAINTAIN STRUCTURAL VALUE OF JOINED PIECES.
4. CLOSE EXPOSED ENDS OF RAILING MEMBERS WITH PREFABRICATED END FITTINGS.
5. PROVIDE WALL RETURNS AT ENDS OF WALL-MOUNTED HANDRAILS UNLESS OTHERWISE INDICATED. CLOSE ENDS OF RETURNS UNLESS CLEARANCE BETWEEN END OF RAIL AND WALL IS 1/4 INCH OR LESS.
6. BRACKETS, FLANGES, FITTINGS, AND ANCHORS: PROVIDE WALL BRACKETS, FLANGES, MISCELLANEOUS FITTINGS, AND ANCHORS TO INTERCONNECT RAILING MEMBERS TO OTHER WORK UNLESS OTHERWISE INDICATED.
7. PROVIDE INSERTS AND OTHER ANCHORAGE DEVICES FOR CONNECTING RAILINGS TO CONCRETE OR MASONRY WORK. FABRICATE ANCHORAGE DEVICES CAPABLE OF WITHSTANDING LOADS IMPOSED BY RAILINGS. COORDINATE ANCHORAGE DEVICES WITH SUPPORTING STRUCTURE.
8. FOR RAILING POSTS SET IN CONCRETE, PROVIDE GALVANIZED STEEL SLEEVES NOT LESS THAN 6 INCHES LONG WITH INSIDE DIMENSIONS NOT LESS THAN 1/2 INCH GREATER THAN OUTSIDE DIMENSIONS OF POST, WITH METAL PLATE FORMING BOTTOM CLOSURE.

SECTION 07 41 13 STANDING SEAM ROOF PANELS

A. SUMMARY:
1. WORK INCLUDES PRE-FORMED METAL ROOFING SYSTEM COMPLETE WITH CLIPS, PERIMETER AND PENETRATION FLASHING, CLOSURES, GUTTERS AND DOWNSPOUTS.
B. MANUFACTURER:
1. BASIS-OF-DESIGN SYSTEM: PANEL SHALL BE IMETCO TWINLOK 1.5 (TL 1.5) ROOF PANEL SYSTEM AS MANUFACTURED BY INNOVATIVE METALS COMPANY, INC. (IMETCO), NORCROSS, GEORGIA, TELEPHONE 1-800-646-3826I.
C. DESIGN AND PERFORMANCE CRITERIA.
1. THERMAL EXPANSION AND CONTRACTION.
COMPLETED METAL ROOFING AND FLASHING SYSTEM SHALL BE CAPABLE OF WITHSTANDING EXPANSION AND CONTRACTION OF COMPONENTS CAUSED BY CHANGES IN TEMPERATURE WITHOUT BUCKLING, OR REDUCING PERFORMANCE ABILITY. THE DESIGN TEMPERATURE DIFFERENTIAL SHALL BE NOT LESS THAN 220 DEGREES FAHRENHEIT. INTERFACE BETWEEN PANEL AND CLIP SHALL PROVIDE FOR ADEQUATE THERMAL MOVEMENT IN EACH DIRECTION ALONG THE LONGITUDINAL DIRECTION.
2. UNIFORM WIND UPLIFT LOAD CAPACITY.
INSTALLED ROOF SYSTEM SHALL WITHSTAND NEGATIVE WIND UPLIFT PRESSURES COMPLYING WITH THE FOLLOWING CRITERIA.
DESIGN CODE: ASCE 7, METHOD 2 FOR COMPONENTS AND CLADDING. SEE STRUCTURAL DRAWINGS FOR WIND SPEED AND BUILDING CATEGORY.
D. QUALITY CRITERIA / INSTALLER QUALIFICATIONS.
1. ENGAGE AN EXPERIENCED METAL ROOFING CONTRACTOR (ERECTOR) TO INSTALL STANDING SEAM SYSTEM WHO HAS A MINIMUM OF THREE (3) YEARS EXPERIENCE SPECIALIZING IN THE INSTALLATION OF STRUCTURAL STANDING SEAM METAL ROOF SYSTEMS.
2. CONTRACTOR MUST BE CERTIFIED BY MANUFACTURER SPECIFIED AS A SUPPLIER OF STANDING SEAM SYSTEM AND OBTAIN WRITTEN CERTIFICATION FROM MANUFACTURER THAT INSTALLER IS APPROVED FOR INSTALLATION OF THE SPECIFIED SYSTEM.
3. SUCCESSFUL CONTRACTOR MUST OBTAIN ALL COMPONENTS OF ROOF SYSTEM FROM A SINGLE MANUFACTURER. ANY SECONDARY PRODUCTS THAT ARE REQUIRED WHICH CANNOT BE SUPPLIED BY THE SPECIFIED MANUFACTURER MUST BE RECOMMENDED AND APPROVED IN WRITING BY PRIMARY MANUFACTURER PRIOR TO BIDDING.
4. FABRICATOR/INSTALLER SHALL SUBMIT WORK EXPERIENCE AND EVIDENCE OF ADEQUATE FINANCIAL RESPONSIBILITY. ARCHITECT RESERVES THE RIGHT TO INSPECT FABRICATION FACILITIES IN DETERMINING QUALIFICATIONS.
E. WARRANTIES - ENDORSE AND FORWARD TO OWNER THE FOLLOWING WARRANTIES:
1. MANUFACTURER'S STANDARD 20 YEAR ROOF SYSTEM WEATHERTIGHTNESS WARRANTY, JOINTLY SIGNED BY THE INSTALLER AND MANUFACTURER. THE WARRANTY SHALL NOT PLACE ANY LIMITATIONS ON WIND SPEED, UP TO A MAXIMUM DESIGN WIND SPEED AS GIVEN IN ARTICLE 1.5 OF SPECIFICATION SECTION 01 60 00.
2. MANUFACTURER'S STANDARD 20 YEAR FINISH WARRANTY COVERING CHECKING, CRAZING, PEELING, CHALKING, FADING, AND ADHESION OF THE PREPAINTED SHEET METAL MATERIALS.
3. INSTALLER'S 3 YEAR WARRANTY COVERING ROOF PANEL SYSTEM INSTALLATION AND WATERTIGHTNESS.
F. PANEL MATERIALS
1. PAINTED, METALLIC-COATED STEEL SHEET: RESTRICTED FLATNESS STEEL SHEET METALLIC COATED BY THE HOT-DIP PROCESS AND PREPAINTED BY THE COIL-COATING PROCESS TO COMPLY WITH ASTM A755/A755M.
RECYCLED CONTENT: PROVIDE STEEL SHEET WITH AVERAGE RECYCLED CONTENT SUCH THAT POSTCONSUMER RECYCLED CONTENT PLUS ONE-HALF OF PRECONSUMER RECYCLED CONTENT IS AT LEAST 70 PERCENT.
2. 22 GAUGE, ZINC-COATED (GALVANIZED) STEEL SHEET, AS PER ASTM A653: G90 (Z275) COATING DESIGNATION; STRUCTURAL QUALITY, GRADE 40 KSI (275 MPA).
3. TEXTURE: SMOOTH SURFACE.
4. EXPOSED COIL-COATED FINISH:
2-COAT FLUOROPOLYMER: AAMA 621. FLUOROPOLYMER FINISH CONTAINING NOT LESS THAN 70 PERCENT PVDF RESIN BY WEIGHT IN COLOR COAT. MANUFACTURERS' APPROVED APPLICATOR TO PREPARE, PRETREAT, AND APPLY COATING TO EXPOSED METAL SURFACES TO COMPLY WITH COATING AND RESIN MANUFACTURERS' WRITTEN INSTRUCTIONS.
COATING SYSTEM SHALL PROVIDE NOMINAL 1.0 MIL (0.025 MM) DRY FILM THICKNESS, CONSISTING OF PRIMER AND COLOR COAT.
5. COLOR SHALL BE SELECTED FROM IMETCO'S FULL RANGE OF STANDARD COLORS.
G. UNDERLAYMENT MATERIALS: AQUA BLOCK 60 BY IMETCO.
H. FIELD-INSTALLED THERMAL INSULATION - (REFER TO SECTION 07 21 00 THERMAL INSULATION.)
1. POLYETHYLENE VAPOR RETARDERS: ASTM D 4397, 6-MILS- (0.15-MM-) THICK, WITH MAXIMUM PERMEANCE RATING OF 0.13 PERM (7.5 NG/PA X S X SQ. M).
2. FACED, POLYISOCYANURATE BOARD INSULATION: ASTM C 1289, TYPE II, CLASS 1 OR 2 FELT OR GLASS-FIBER MAT, GRADE 2 WITH MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 75 AND 450, RESPECTIVELY, BASED ON TESTS PERFORMED ON UNFACED CORE.
I. SUBSTRATE BOARD
A. GLASS-MAT GYPSUM SHEATHING BOARD: ASTM C 1177/C 1177M, TYPE AND THICKNESS: REGULAR, 5/8 INCH.
1. THE TOP SURFACE OF THE SUBSTRATE BOARD SHALL BE PRE-PRIMED TO PROVIDE FOR ADHESION OF THE SELF-ADHERING UNDERLAYMENT MATERIAL.
2. PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE DENS-DEK PRIME BY GEORGIA-PACIFIC CORPORATION.
B. SUBSTRATE-BOARD FASTENERS: FACTORY-COATED STEEL FASTENERS AND METAL OR PLASTIC PLATES COMPLYING WITH CORROSION-RESISTANCE PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING SUBSTRATE BOARD TO SUBSTRATE.
J. CONCEALED FASTENERS AND ANCHOR CLIPS.
K. STANDING SEAM PANEL WIDTH: 16".
L. ROOF PANEL ACCESSORIES: PROVIDE COMPONENTS APPROVED BY ROOF PANEL MANUFACTURER AND AS REQUIRED FOR A COMPLETE METAL ROOF PANEL ASSEMBLY INCLUDING TRIM, COPINGS, FASCIAE, CORNER UNITS, RIDGE CLOSURES, CLIPS, FLASHINGS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS. MATCH MATERIAL AND FINISH OF METAL ROOF PANELS UNLESS OTHERWISE INDICATED.
M. FLASHING AND TRIM: FORMED FROM SAME MATERIAL AND GAUGE AS ROOF PANELS, PREPAINTED WITH COIL COATING. PROVIDE FLASHING AND TRIM AS REQUIRED TO SEAL AGAINST WEATHER AND TO PROVIDE FINISHED APPEARANCE. LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO, EAVES, RAKES, CORNERS, BASES, FRAMED OPENINGS, RIDGES, FASCIAE, AND FILLERS. FINISH FLASHING AND TRIM WITH SAME FINISH SYSTEM AS ADJACENT METAL ROOF PANELS.
N. GUTTERS: FORMED FROM SAME MATERIAL ROOF PANELS. MATCH PROFILE OF GABLE TRIM, COMPLETE WITH END PIECES, OUTLET TUBES, AND OTHER SPECIAL PIECES AS REQUIRED. FABRICATE IN MINIMUM 10-FOOT- (3-M-) LONG SECTIONS, OF SIZE AND METAL THICKNESS ACCORDING TO SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL." FURNISH GUTTER SUPPORTS SPACED PER SMACNA'S RECOMMENDATION BASED ON GAUGE AND STRETCH-OUT, FABRICATED FROM SAME METAL AS GUTTERS. PROVIDE WIRE BALL STRAINERS OF COMPATIBLE METAL AT OUTLETS. FINISH GUTTERS TO MATCH METAL ROOF PANELS.
O. DOWNSPOUTS: FORMED FROM SAME MATERIAL AS ROOF PANELS. FABRICATE IN 10-FOOT- (3-M-) LONG SECTIONS, COMPLETE WITH FORMED ELBOWS AND OFFSETS, OF SIZE AS INDICATED ON THE DRAWINGS AND METAL THICKNESS ACCORDING TO SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL". FINISH DOWNSPOUTS TO MATCH GUTTERS.

SECTION 07 21 00 THERMAL INSULATION

A. PRODUCTS
1. EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD
EXTRUDED POLYSTYRENE BOARDS IN THIS ARTICLE ARE ALSO CALLED "XPS BOARDS." ROMAN NUMERAL DESIGNATORS IN ASTM C 578 ARE ASSIGNED IN A FIXED RANDOM SEQUENCE, AND THEIR NUMERIC ORDER DOES NOT REFLECT INCREASING STRENGTH OR OTHER CHARACTERISTICS.
2. EXTRUDED POLYSTYRENE BOARD, TYPE IV, DRAINAGE PANELS: ASTM C 578, TYPE IV, 25-PSI MINIMUM COMPRESSIVE STRENGTH; UNFACED; MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 25 AND 450, RESPECTIVELY, PER ASTM E 84; FABRICATED WITH SHIPLAP OR CHANNEL EDGES AND WITH ONE SIDE HAVING GROOVED DRAINAGE CHANNELS.
3. XPS BOARDS TO BE USED INSIDE MASONRY CAVITY WALLS AND AT ALL EXTERIOR WALLS. MINIMUM R-VALUE 10 CONTINUOUS INSULATION.
B. POLYISOCYANURATE FOAM-PLASTIC BOARD
1. POLYISOCYANURATE BOARD, GLASS-FIBER-MAT FACED: ASTM C 1289, GLASS-FIBER-MAT FACED, TYPE II, CLASS 2. FIRE PROPAGATION CHARACTERISTICS: PASSES NFPA 285 TESTING AS PART OF AN APPROVED ASSEMBLY.
2. PRODUCTS BY DOW CHEMICAL COMPANY OR OWENS CORNING
3. POLYISOCYANURATE BOARD TO BE USED ON ROOFING. MINIMUM R-VALUE 30 CONTINUOUS INSULATION.

SECTION 07 26 00 VAPOR RETARDERS

A. PRODUCTS
1. POLYETHYLENE VAPOR RETARDERS: ASTM D 4397, 10-MIL- THICK SHEET, WITH MAXIMUM PERMEANCE RATING OF 0.1 PERM.
2. REINFORCED-POLYETHYLENE VAPOR RETARDERS: SHEET WITH OUTER LAYERS OF POLYETHYLENE FILM LAMINATED TO AN INNER REINFORCING LAYER CONSISTING OF EITHER NYLON CORD OR POLYESTER SCRIM AND WEIGHING NOT LESS THAN 20 LB/1000 SQ. FT., WITH MAXIMUM PERMEANCE RATING OF 0.1 PERM.
1. MANUFACTURER: FIRESTONE V-FORCE VAPOR BARRIER MEMBRANE SYSTEM, RAVEN INDUSTRIES, REEF INDUSTRIES, OR APPROVED EQUAL
B. INSTALLATION OF VAPOR RETARDERS ON FRAMING AND ON DECK COVERBOARD ON ROOF DECK
1. EXTEND VAPOR RETARDERS TO EXTREMITIES OF AREAS TO PROTECT FROM VAPOR TRANSMISSION. SECURE VAPOR RETARDERS IN PLACE WITH ADHESIVES, VAPOR RETARDER FASTENERS, OR OTHER ANCHORAGE SYSTEM AS RECOMMENDED BY MANUFACTURER. EXTEND VAPOR RETARDERS TO COVER MISCELLANEOUS VOIDS IN INSULATED SUBSTRATES, INCLUDING THOSE FILLED WITH LOOSE-FIBER INSULATION.
2. SEAL VERTICAL JOINTS IN VAPOR RETARDERS OVER FRAMING BY LAPPING NO FEWER THAN TWO STUDS AND SEALING WITH VAPOR-RETARDER TAPE ACCORDING TO VAPOR-RETARDER MANUFACTURER'S WRITTEN INSTRUCTIONS. LOCATE ALL JOINTS OVER FRAMING MEMBERS OR OTHER SOLID SUBSTRATES.
3. SEAL JOINTS CAUSED BY PIPES, CONDUITS, ELECTRICAL BOXES, AND SIMILAR ITEMS PENETRATING VAPOR RETARDERS WITH VAPOR-RETARDER TAPE TO CREATE AN AIRTIGHT SEAL BETWEEN PENETRATING OBJECTS AND VAPOR RETARDERS.
4. REPAIR TEARS OR PUNCTURES IN VAPOR RETARDERS IMMEDIATELY BEFORE

SECTION 07 27 26 FLUID-APPLIED MEMBRANE AIR BARRIER

A. GENERAL:
VAPOR-RETARDING, FLUID-APPLIED AIR BARRIER
1. LOW-BUILD, VAPOR-RETARDING AIR BARRIER: SYNTHETIC POLYMER MATERIAL WITH AN INSTALLED DRY FILM THICKNESS, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, OF 6 TO 15 MILS (1.5 TO 0.38 MM) OVER SMOOTH, VOID-FREE SUBSTRATES.
A. AIR PERMEANCE: MAXIMUM 0.004 CFM/SQ. FT. OF SURFACE AREA AT 1.57-LBF/SQ. FT. (0.02 L/S X SQ. M OF SURFACE AREA AT 75-PA) PRESSURE DIFFERENCE; ASTM E2178.
B. VAPOR PERMEANCE: MAXIMUM 0.1 PERM (5.8 NG/PA X S X SQ. M)] [5.7 PERMS (327 NG/PA X S X SQ. M); ASTM E96/E96M, DESICCANT METHOD.
C. ULTIMATE ELONGATION: MINIMUM **350** PERCENT; ASTM D412, DIE C.
D. ADHESION TO SUBSTRATE: MINIMUM 16 LBF/SQ. IN. (110 KPA) WHEN TESTED ACCORDING TO ASTM D4541.
E. FIRE PROPAGATION CHARACTERISTICS: PASSES NFPA 285 TESTING AS PART OF AN APPROVED ASSEMBLY.
2. ACCESSORY MATERIALS
A. REQUIREMENT: PROVIDE PRIMERS, TRANSITION STRIPS, TERMINATION STRIPS, JOINT REINFORCING FABRIC AND STRIPS, JOINT SEALANTS, COUNTERFLASHING STRIPS, FLASHING SHEETS AND METAL TERMINATION BARS, TERMINATION MASTIC, SUBSTRATE PATCHING MATERIALS, ADHESIVES, TAPES, FOAM SEALANTS, LAP SEALANTS, AND OTHER ACCESSORY MATERIALS THAT ARE RECOMMENDED IN WRITING BY AIR-BARRIER MANUFACTURER TO PRODUCE A COMPLETE AIR-BARRIER ASSEMBLY AND THAT ARE COMPATIBLE WITH PRIMARY AIR-BARRIER MATERIAL AND ADJACENT CONSTRUCTION TO WHICH THEY MAY SEAL.

SECTION 07 42 33 PHENOLIC WALL PANELS (HPL PANEL CLADDING SYSTEM)

A. GENERAL:
EXTERIOR SOLID PHENOLIC CLADDING PANEL SYSTEM AND ACCESSORIES AS REQUIRED FOR A COMPLETE DRAINED AND BACK-VENTILATED RAINSCREEN SYSTEM.
1. WALL PANELS
B. RELATED SECTIONS: SUB-FRAMING Z GIRTS TO ACCOMMODATE EXTERIOR INSULATION IS NOT IN THE SCOPE OF THIS SECTION.
C. MANUFACTURER:
ACCEPTABLE MANUFACTURER'S REPRESENTATIVE: TRESPA NORTH AMERICA, LTD.; 12267 CROSTHWAITE CIR., POWAY, CA 92064. ASD. TOLL FREE TEL: (800) 4-TRESPA. TEL: (858) 679-2090. FAX: (858) 679-9568. EMAIL: INFO.NORTHAMERICA@TRESPA.COM. WEB: HTTP://WWW.TRESPA.COM/NA.
D. WALL PANELS:
A. SOLID PHENOLIC WALL PANELS: TRESPA METEON BY TRESPA INTERNATIONAL AS REPRESENTED BY TRESPA NORTH AMERICA, LTD.
1.MATERIAL: SOLID PANEL MANUFACTURED USING A COMBINATION OF HIGH PRESSURE AND TEMPERATURE TO CREATE A FLAT PANEL CREATED FROM THERMOSETTING RESINS, HOMOGENOUSLY REINFORCED WITH WOODBASED FIBERS AND AN INTEGRATED DECORATIVE SURFACE OR PRINTED DÉCOR.
2. COLOR ON PRIMARY FACE: NW08 ITALIAN WALNUT COLOR WITH BLACK REVERSE.
3. FINISH: MATT.
4. PANEL THICKNESS: 3/8 INCH (10 MM).
E. MOUNTING SYSTEM
1. TS210DC-285 INVISIBLE (CONCEALED) BRACKET-RAILFIX ON AN ALUMINUM SUB-FRAME - DEEP CAVITY.

SECTION 07 92 00 JOINT SEALANTS

A. GENERAL:
1. COMPATIBILITY: PROVIDE JOINT SEALANTS, BACKINGS, AND OTHER MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY JOINT-SEALANT MANUFACTURER. ARCHITECTURAL SEALANTS SHALL HAVE VOC CONTENT OF 250 G/L OR LESS.
2. COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS
B. JOINT SEALANTS
1. SILICONE, S, NS, 25, NT: PLUS 100 PERCENT AND MINUS 50 PERCENT MOVEMENT CAPABILITY
2. MANUFACTURIERS: GE CONSTRUCTION SEALANTS; SIKA CORPORATION; OR APPROVED EQUAL
3. APPLICATION: MILDEW-RESISTANT INTERIOR JOINTS IN VERTICAL AND HORIZONTAL NON-TRAFFIC SURFACES. JOINTS BETWEEN PLUMBING FIXTURES AND ADJOINING WALLS, FLOORS, AND COUNTERTOPS.
4. SILICONE, S, NS, 50, NT: PLUS 100 PERCENT AND MINUS 50 PERCENT MOVEMENT CAPABILITY
5. MANUFACTURIERS: GE CONSTRUCTION SEALANTS; SIKA CORPORATION; OR APPROVED EQUAL
6. APPLICATION: EXTERIOR JOINTS IN VERTICAL AND HORIZONTAL NON-TRAFFIC SURFACES. JOINTS BETWEEN DIFFERIENT MATERIALS, PERIMETER JOINTS BETWEEN FRAMES OF DOORS.
7. ACRYLIC LATEX: ASTM C 834, TYPE OP, GRADE NF
8. MANUFACTURERS: GE CONSTRUCTION SEALANTS; SIKA CORPORATION; OR APPROVED EQUAL
9. APPLICATION: INTERIOR JOINTS IN VERTICAL AND HORIZONTAL NON-TRAFFIC SURFACES. CONTROL JOINTS ON EXPOSED INTERIOR SURFACES OF EXTERIOR WALLS, PERIMETER JOINTS BETWEEN INTERIOR WALLS SURFACES AND FRAMES OF INTERIOR DOORS AND OTHER JOINTS INDICATED ON DRAWINGS.

SECTION 08 11 13 HOLLOW METAL DOORS AND FRAMES

A. MANUFACTURER:
1. STEELCRAFT WWW.STEELCRAFT.COM, WWW.CECODOOR.COM, WWW.CURRIES.COM OR EQUAL.
B. HOLLOW METAL FRAMES:
1. COMPLY WITH ANSI/CC A117.1
2. FINISH; FACTORY PRIMED, FOR FIELD FINISHING
3. 16 GAGE FRAMES
4. EXTERIOR NON-FIRE RATED; HOT-DIP GALVANIZED, FACE WELDED TYPE.
5. EXTRA HEAVY DUTY
C. HOLLOW METAL DOORS;
1. EXTRA HEAVY DUTY
2. FINISH: FACTORY PRIMED FOR FIELD PAINTING.
3. EXTERIOR NON-FIRE RATED: FULL FLUSH TYPE, 1-3/4 INCHES THICK, GALVANIZED STEEL SHEETS MINIMUM 0.053 INCHES THICK, MANUFACTURER'S STANDARD INSULATION CORE.
D. FRAME ANCHORS;
1. FLOOR ANCHORS FOR EACH JAMB.
2. JAMB ANCHORS, MINIMUM 3 PER JAMB.
E. HARDWARE PREPARATION:
1. FACTORY PREPARE HOLLOW-METAL DOORS AND FRAMES TO RECEIVE TEMPLATED MORTISE HARDWARE INCLUDING REINFORCEMENT, DRILLING AND TAPPING.
F. INSTALLATION:
1. HOLLOW-METAL FRAMES: COMPLY WITH ANSI/SDI A250.11. SOLIDLY PACK MINERAL-FIBER INSULATION INSIDE FRAMES.
2. HOLLOW-METAL DOORS: COMPLY WITH ANSI/ADI A250.8. FIT ANND ADJUST DOORS ACCURATELY IN FRAMES.

SECTION 08 14 16 FLUSH WOOD DOORS

A. MANUFACTURER:
1. VT INDUSTRIES ARCHITECTURAL WOOD DOORS, GRAHAM, OR APPROVED EQUAL.
B. WOOD DOORS WITH GLASS: IGU FULL LITE WITH 2 PART HARDWOOD STILE.
C. FLUSH WOOD DOORS:
1. QUALITY LEVEL: PREMIUM GRADE, HEAVY DUTY PERFORMANCE IN ACCORDANCE WITH WDMA I.S.1-A
2. DOOR EDGE PROFILE: BEVELED ON BOTH EDGES. DOOR TEXTURE: SMOOTH FACES.
3. WOOD VENEER FACED DOORS: 5-PLY
4. THICKNESS: 1-3/4", SOLID CORE, STAIN GRADE
5. STAIN FINISH: TO BE APPROVED BY ARCHITECT.

SECTION 09 21 16 GYPSUM BOARD ASSEMBLIES

A. PROVIDE COMPLETED ASSEMBLIES COMPLYING WITH ASTM C 840 AND GA-216.
1. METAL FRAMING MATERIALS
a . NON-LOAD-BEARING FRAMING SYSTEM COMPONENTS: ASTM C 645; GALVANIZED SHEET STEEL OF SIZES,
b . ASSEMBLIES FACED WITH GYPSUM BOARD: MAXIMUM DEFLECTION OF L/240 AT 5 PSF (240 PA).
e. PARTITION HEAD TO STRUCTURE CONNECTIONS: PROVIDE SLOTTED TRACK FASTENED TO STRUCTURE
B. GYPSUM BOARD MATERIALS
1. GYPSUM WALLBOARD: ASTM C 1396/C 1396M. SIZES TO MINIMIZE JOINTS IN PLACE; ENDS SQUARE CUT. REGULAR TYPE: USE FOR VERTICAL SURFACES, UNLESS OTHERWISE INDICATED. THICKNESS: 5/8 INCH. EDGES: TAPERED. USE 1/2 INCH THICK WHERE LAMINATED TO CMU WALLS.
C. ACCESSORIES
1. ACOUSTIC SEALANT: NON-HARDENING, NON-SKINNING, FOR USE IN CONJUNCTION WITH GYPSUM BOARD.
2. FINISHING ACCESSORIES: ASTM C 1047, GALVANIZED STEEL OR ROLLED ZINC, UNLESS OTHERWISE INDICATED.
a. TYPES: AS DETAILED OR REQUIRED FOR FINISHED APPEARANCE.
3. EDGE TRIM: ASTM C 1047, LC BEAD.
4. JOINT MATERIALS: ASTM C 475 AND AS RECOMMENDED BY GYPSUM BOARD MANUFACTURER FOR PROJECT
a. TAPE: 2 INCH WIDE, COATED GLASS FIBER TAPE FOR JOINTS AND CORNERS, EXCEPT AS OTHERWISE
b. READY-MIXED VINYL-BASED JOINT COMPOUND.
5. SCREWS: ASTM C 1002; SELF-PIERCING TAPPING TYPE; CADMIUM-PLATED FOR EXTERIOR LOCATIONS.

SECTION 09 90 00 PAINTING AND COATING

A. MAINTAIN ONE COPY OF RELEVANT PORTIONS OF MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL AND MATERIAL SAFETY DATA SHEETS ON PROJECT SITE AT ALL TIMES.
1. SUBMITTALS:
a. PROVIDE PRODUCT DATA FOR PAINT MATERIALS TO OWNER AND ARCHITECT FOR APPROVAL PRIOR TO ORDERING MATERIAL.
B. DELIVERY, STORAGE, HANDLING, AND FIELD CONDITIONS
1. FOLLOW MANUFACTURER'S RECOMMENDED PROCEDURES FOR PRODUCING BEST RESULTS, INCLUDING TESTING OF SUBSTRATES, MOISTURE IN SUBSTRATES, AND HUMIDITY AND TEMPERATURE LIMITATIONS.
C. EXTRA MATERIALS
1. SUPPLY 2 GALLONS OF EACH COLOR; STORE WHERE DIRECTED.
2. LABEL EACH CONTAINER WITH COLOR IN ADDITION TO THE MANUFACTURER'S LABEL.
D. MANUFACTURERS: SEE FINISH LEGEND.
E. PAINTS AND COATINGS: ANY MANUFACTURER LISTED IN MPI APPROVED PRODUCTS LIST (AT WWW.PAINTINFO.COM) UNDER APPLICABLE MPI PRODUCT REFERIENCE NUMBER, UNLESS OTHERWISE INDICATED.
F. PROVIDE ALL PAINT AND COATING PRODUCTS USED IN ANY INDIVIDUAL SYSTEM FROM THE SAME MANUFACTURER; NO EXCEPTIONS PAINT PRODUCTS SHOULD BE APPROVED BY CLIENT REPRESENTATIVE PRIOR TO ORDERING.
G. MATERIALS - GENERAL
1. VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
a. PROVIDE COATINGS THAT COMPLY WITH THE MOST STRINGENT REQUIREMENTS SPECIFIED IN THE FOLLOWING:
1. 40 CFR 59, SUBPART D-NATIONAL VOLATILE ORGANIC COMPOUND EMISSION STANDARDS FOR ARCHITECTURAL COATINGS.
2. OZONE TRANSPORT COMMISSION (OTC) MODEL RULE, ARCHITECTURAL, INDUSTRIAL, AND MAINTENANCE COATINGS; WWW.OTCAIR.ORG; SPECIFICALLY:
a. OPAQUE, NONFLAT: 150 GIL, MAXIMUM.
b. OPAQUE, HIGH GLOSS: 250 GIL, MAXIMUM.
3. ARCHITECTURAL COATINGS VOC LIMITS OF THE COMMONWEALTH OF VIRGINIA
2. CHEMICAL CONTENT: THE FOLLOWING COMPOUNDS ARE PROHIBITED:
a. AROMATIC COMPOUNDS: IN EXCESS OF 1.0 PERCENT BY WEIGHT OF TOTAL AROMATIC COMPOUNDS (HYDROCARBON COMPOUNDS CONTAINING ONE OR MORE BENZENE RINGS). ACROLEIN, ACRYLONITRILE, ANTIMONY, BENZENE, BUTYL BENZVL PHTHALATE, CADMIUM, DI (2-ETHYLHEXYL) PHTHALATE, DI-N-BUTYL PHTHALATE, D1-N-OCTYL PHTHALATE, 1,2-DICHLOROBENZENE, DIETHYL PHTHALATE., DIMETHYL PHTHALATE, ETHYLBENZENE, FORMALDEf!YDE, HEXAVALENT CHROMIUM, ISOPHORONE, LEAD, MERCURY, METHYL ETHYL KETONE, METf!YL ISOBUTYL KETONE, METf!YLENE CHLORIDE, NAPHTHALENE, TOLUENE (METf!YLBENZENE), 1,1,1-TRICHLOROETHANE, VINYL CHLORIDE.
3. PAINTS AND COATINGS: PROVIDE PRODUCTS LISTED IN MASTER PAINTERS INSTITUTE APPROVED PRODUCT LIST, CURRENT EDITION AVAILABLE AT WWW.PAINTINFO.COM, FOR SPECIFIED MPI CATEGORIES, EXCEPT AS OTHERWISE INDICATED.
1. PROVIDE READY MIXED PAINTS AND COATINGS.
2. PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND THE SUBSTRATES INDICATED UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
H. PATCHING MATERIAL AND FASTENER HEAD COVER MATERIAL: LATEX FILLER.
I. PAINT SYSTEMS
1. PROVIDE PRIEMIUM GRADE SYSTEMS (2 TOP COATS) AS DEFINED IN MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL, EXCEPT AS OTHERWISE INDICATED.
2. PROVIDE COLORS AS INDICATED ON FINISH SCHEDULE.
J. PREPARATION
1. PREPARE SURFACES AS SPECIFIED IN MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL AND AS FOLLOWS FOR THE APPLICABLE SURFACE AND COATING;
2. COORDINATE PAINTING WORK WITH CLEANING AND PREPARATION WORK SO THAT DUST AND OTHER CONTAMINANTS DO NOT FALL ON NEWLY PAINTED, WET SURFACES.
K. APPLICATION
1. APPLY PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AS SPECIFIED OR RECOMMENDED BY MPI MANUAL, USING THE PREPARATION, PRODUCTS, SHEENS, TEXTURIES, AND COLORS AS INDICATED.
2. REMOVE, REFINISH, OR REPAINT WORK NOT COMPLYING WITH REQUIREMENTS.

SECTION 10 44 00 FIRE PROTECTION SPECIALTIES
A. FIRE EXTINGUISHER
1. DRY CHEMICAL TYPE: STAINLESS STEEL TANK, WITH PRESSURE GAGE
2. SIZE 10
3. FINISH: BAKED ENAMEL, RED COLOR
B. FIRE EXTINGUISHER CABINET
1. METAL: FORMED PRIME SHEET STEEL; 0.036 INCH BASE METAL
2. SEMI-RECESSED TYPE, SIZE TO ACCOMMODATE FIRE EXTINGUISHER
3. TRIM: RETURN TO WALL SURFACE, WITH SQUARE TRIM, 1-1/4 INCH WIDE FACE
4. DOOR DESIGN: FLUSH PANEL, VERTICAL STRIP GLAZED, 1/8" THICK FLOAT, TEMPERED GLASS
5. FINISH OF CABINET INTERIOR: WHITE ENAMEL
6. FINISH OF CABINET EXTERIOR: WHITE ENAMEL
7. CABINET SIGNAGE: "FIRE EXTINGUISHER"
C. INSTALLATION
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. INSTALL IN ACCORDANCE WITH ADA REQUIREMENTS: 48 INCHES FROM FLOOR TO DOOR LATCH.

SECTION 35 48 16 PRECAST CONCRETE SPLASH BLOCK

A. MANUFACTURER:
1. NITTERHOUSE www.nitterhousemasonry.com OR EQUAL
B. SIZE:
1. 2' X 3'
C. MATERIALS:
1. MANUFACTURED PRECAST CONCRETE CONFORMING TO THE FOLLOWING ASTM SPECIFICATIONS:
2. TYPE 1 PORTLAND CEMENT - ASTM C-150
3. FINE AND COURSE AGGREGATE - ASTM C-33
4. AIR ENTRAINING AGENT - ASTM C-260
D. TECHNICAL REQIREMENTS:
1. 8,000 PSI MINIMUM COMPRESSIVE STRENGTH
2. 6.0% MAXIMUM ABSORPTION RATE
3. WIRE REINFORCED

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COMMONWEALTH OF VIRGINIA
RICHARD THRASHER
Lic. No. 007490
Richard Thrasher
5 May 2023
ARCHITECT

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

ARCHITECTURAL SPECIFICATIONS

SHEET NUMBER

A-701

READY FOR CONSTRUCTION

PIPING SYMBOLS

- (E) — EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- DOMESTIC COLD WATER (CW)
- DOMESTIC HOT WATER (HW)
- DOMESTIC HOT WATER CIRCULATING (HWC)
- G — NATURAL GAS
- SD — STORM DRAIN
- SANITARY VENT (V)
- SANITARY DRAIN (SAN)

PIPE FITTING SYMBOLS

- GATE VALVE
- GLOBE VALVE
- HOSE VALVE WITH CAP
- BUTTERFLY VALVE
- CHECK VALVE
- BALANCING VALVE
- BALL VALVE
- PLUG VALVE
- S — SOLENOID VALVE
- SAFETY OR PRESSURE RELIEF, ANGLE VALVE
- SAFETY OR PRESSURE RELIEF, STRAIGHT THRU VALVE
- PRESSURE REDUCING VALVE (PRV)
- BLIND FLANGE
- WYE
- CAP
- ELBOW, 90°
- ELBOW, 90° TURNED UP
- ELBOW 90°, TURNED DOWN
- ELBOW, 45°
- TEE
- TEE, OUTLET TURNED UP
- TEE, OUTLET TURNED DOWN
- UNION
- FLEXIBLE PIPE CONNECTION
- PRESSURE GAUGE WITH SHUT OFF COCK AND SIPHON OR PULSATION DAMPENER.
- T — TEMPERATURE GAUGE
- THERMOMETER
- FD — FLOOR DRAIN W/TRAP
- TD — TRENCH DRAIN
- FCO — FLOOR CLEAN OUT
- WCO — WALL CLEAN OUT
- WHA — WATER HAMMER ARRESTER
- HB — HOSE BIBB
- WH — WALL HYDRANT
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- Y-TYPE STRAINER
- Y-TYPE STRAINER WITH HOSE DRAIN VALVE
- M — WATER METER
- PUMP

GENERAL NOTES

A. SEE G-002 FOR ABBREVIATIONS AND GENERAL SYMBOLS. CHARACTER IDENTIFIERS MAY ALSO BE USED FOR PIPING DESCRIPTIONS.

B. PLUMBING LAYOUTS ARE SCHEMATIC ONLY. CONTRACTOR TO PROVIDE ANY ADDITIONAL DROPS, RISES, OR OFFSETS REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE EXACT ROUTING OF WORK WITH ALL OTHER TRADES AND OBSTRUCTIONS.

C. UNLESS OTHERWISE INDICATED, ROUTE ALL PIPING ABOVE CEILING. ROUTE ALL PIPING AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS.

D. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING/CONTROL DEVICES IN ACCESSIBLE LOCATIONS WITH A STRAIGHT SECTION OF PIPE UPSTREAM AND DOWNSTEAM, AS RECOMMENDED BY THE DEVICE MANUFACTURER FOR ACCURACY. INSTALL THERMOMETER IN A VERTICAL AND TILTED POSITION TO ALLOW READING BY OBSERVER STANDING ON FLOOR.

E. ALL WORK INDICATED IS NEW UNLESS NOTED AS EXISTING.

F. VERIFY EXACT SIZES AND LOCATIONS OF EXISTING WORK PRIOR TO PROVIDING NEW WORK.

G. SOME SYMBOLS INDICATED ON THIS LEGEND SHEET MAY NOT APPEAR ON THE DRAWINGS.

H. DO NOT LOCATE PLUMBING WORK IN ELEVATOR, ELECTRICAL, OR COMMUNICATION ROOMS, EXCEPT FOR RUNOUTS SPECIFICALLY SERVING THE RESPECTIVE ROOM.

I. WATER HAMMER ARRESTORS SHALL BE INSTALLED, SIZED, AND LOCATED PER PDI WH-201. LOCATE WATER HAMMER ARRESTORS WITHIN 6 FEET OF QUICK ACTING VALVE.

J. CONTRACTOR TO COORDINATE AND PROVIDE ACCESS PANELS FOR ALL COMPONENTS INSTALLED IN INACCESSIBLE AREAS THAT MAY REQUIRE MAINTENANCE.

K. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE FOR AN OPERABLE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE. ALL MATERIAL SHALL BE NEW AND OF GOOD QUALITY. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER.

L. INSTALL ALL PLUMBING EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, MAINTENANCE REQUIREMENTS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

M. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT AND IN BYPASSES TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.

N. PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR MATERIALS.

GENERAL DEMOLITION NOTES

A. DEMOLISH ALL PLUMBING FIXTURES, ASSOCIATED COMPONENTS, AND PIPING THAT WILL BE RENDERED OBSOLETE DUE TO CHANGES TO THE BUILDING. COORDINATE THE EXTENT OF DEMOLITION AND COMPONENTS TO REMAIN WITH THE NEW WORK SHEETS. FIELD VERIFY ACTUAL PIPE ROUTING.

B. REMOVE ALL APPLICABLE PIPING TO WHERE IT CONNECTS TO ACTIVE MAINS THAT WILL NOT BE DEMOLISHED. AFTER THE DEMOLITION IS COMPLETE NO DEAD-END PIPING SHALL REMAIN. UNDER SLAB PIPING THAT IS RENDERED OBSOLETE BY CHANGES TO THE BUILDING CAN BE ABANDONED IN PLACE IF THE FOLLOWING CONDITIONS ARE MET:
   1) INACTIVE PIPING SHALL BE DISCONNECTED AND CAPPED AS CLOSE AS POSSIBLE TO THE ACTIVE MAIN.
   2) REMOVE PIPE STUB-OUTS THROUGH THE SLAB AND REPAIR SLAB TO MATCH EXISTING
   3) DOES NOT CONFLICT WITH OTHER TRADES.

C. BEFORE WORK HAS BEGUN, CONTRACTOR SHALL MAKE A THOROUGH SURVEY OF THE BUILDING AND NOTIFY THE OWNER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE DRAWINGS. FAILURE BY THE CONTRACTOR TO HAVE ACQUAINTED HIMSELF WITH AVAILABLE INFORMATION CONCERNING EXISTING CONDITIONS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITIES OF PERFORMANCE OF WORK IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

D. DRAWINGS SHOWING EXISTING CONSTRUCTION AND UTILITIES ARE FOR REFERENCE ONLY AND HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS OR ENGINEER JUDGMENT AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL OBTAIN COPIES OF EXISTING DRAWINGS AND VERIFY ACTUAL FIELD CONDITIONS PRIOR TO STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING OF ANY WORK DESCRIBED IN THE CONTRACT DOCUMENTS WHICH CANNOT BE PREFORMED DUE TO EXISTING CONDITIONS.

E. DURING THE PLUMBING DEMOLITION PROCESS ANY DAMAGE THAT IS DONE TO THE BUILDING AREAS THAT ARE TO REMAIN SHALL BE REPAIRED TO MATCH EXISTING.

F. IF HAZARDOUS MATERIALS ARE DISCOVERED DURING REMOVAL OPERATIONS, STOP WORK AND NOTIFY THE OWNER; HAZARDOUS MATERIALS INCLUDE BUT NOT LIMITED TO REGULATED ASBESTOS CONTAINING MATERIALS, LEAD, PCB'S AND MERCURY.

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REGISTRATION

COMMONWEALTH OF VIRGINIA
NICHOLAS SCOTT LYONS
Lic. No. 060041
5/5/2023
PROFESSIONAL ENGINEER

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

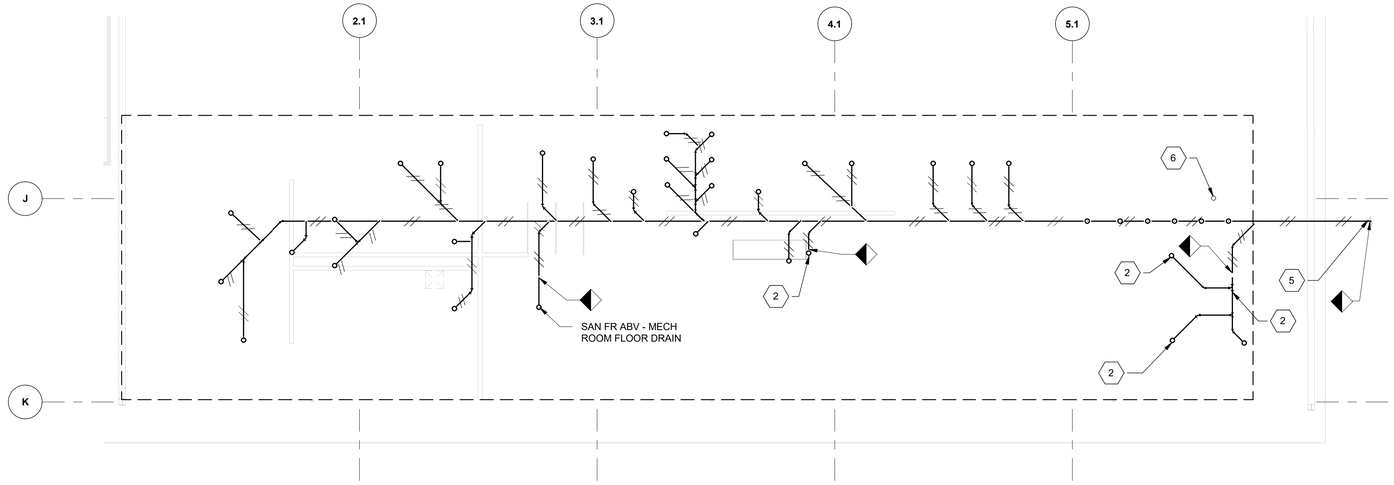
SHEET TITLE

PLUMBING GENERAL NOTES AND LEGENDS

SHEET NUMBER

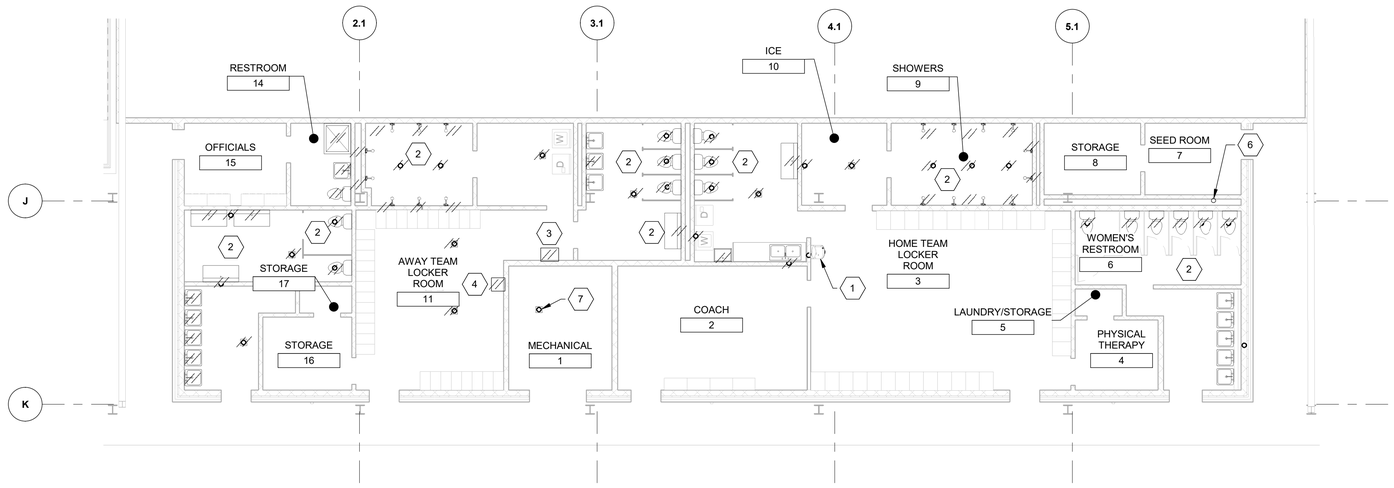
P-001

READY FOR CONSTRUCTION



EXISTING FIELD HOUSE - UNDERGROUND DEMO PLAN

1/8" = 1'-0"



EXISTING FIELD HOUSE - FIRST FLOOR DEMO PLAN

1/8" = 1'-0"

GENERAL NOTES THIS SHEET:

A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

SHEET KEYNOTES:

1. EXISTING DRINKING FOUNTAIN TO BE LEFT IN PLACE.
2. DEMOLISH ALL PLUMBING FIXTURES AND ASSOCIATED PIPING WITH THE EXCEPTION OF LAVATORIES AND FLOOR DRAINS IN WOMEN'S RESTROOM AND NOTED DRINKING FOUNTAIN. EXISTING UNDERGROUND PIPING SHOWN MAY NOT BE ACCURATE AND REQUIRES CONTRACTOR FIELD VERIFICATION AFTER SLAB DEMOLITION.
3. EXISTING HIGH-MOUNTED DEHUMIDIFIER. SALVAGE AND SEE MECHANICAL DRAWINGS FOR DISPOSITION.
4. REMOVE DRINKING FOUNTAIN AND COORDINATE DISPOSITION WITH CLIENT.
5. EXISTING INVERT SHALL BE MAINTAINED. CONTRACTOR SHALL DEMOLISH ALL DRAIN PIPING AND REROUTE INTO BUILDING USING EXISTING INVERT. SEE NEW WORK PLANS.
6. EXISTING INCOMING COLD WATER SUPPLY TO REMAIN IN PLACE.
7. DO NOT DISTURB MECHANICAL ROOM FLOOR DRAIN OR HOT WATER HEATER.

EXIST TN

PN

1/8"=1'-0" 8' 4' 0 8' 16'

GRAPHIC SCALES

READY FOR CONSTRUCTION

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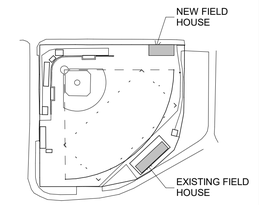
PROFESSIONAL ENGINEER

KEY PLAN



SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

EXISTING FIELD HOUSE - DEMO PLANS

SHEET NUMBER

PD100

GENERAL NOTES THIS SHEET:

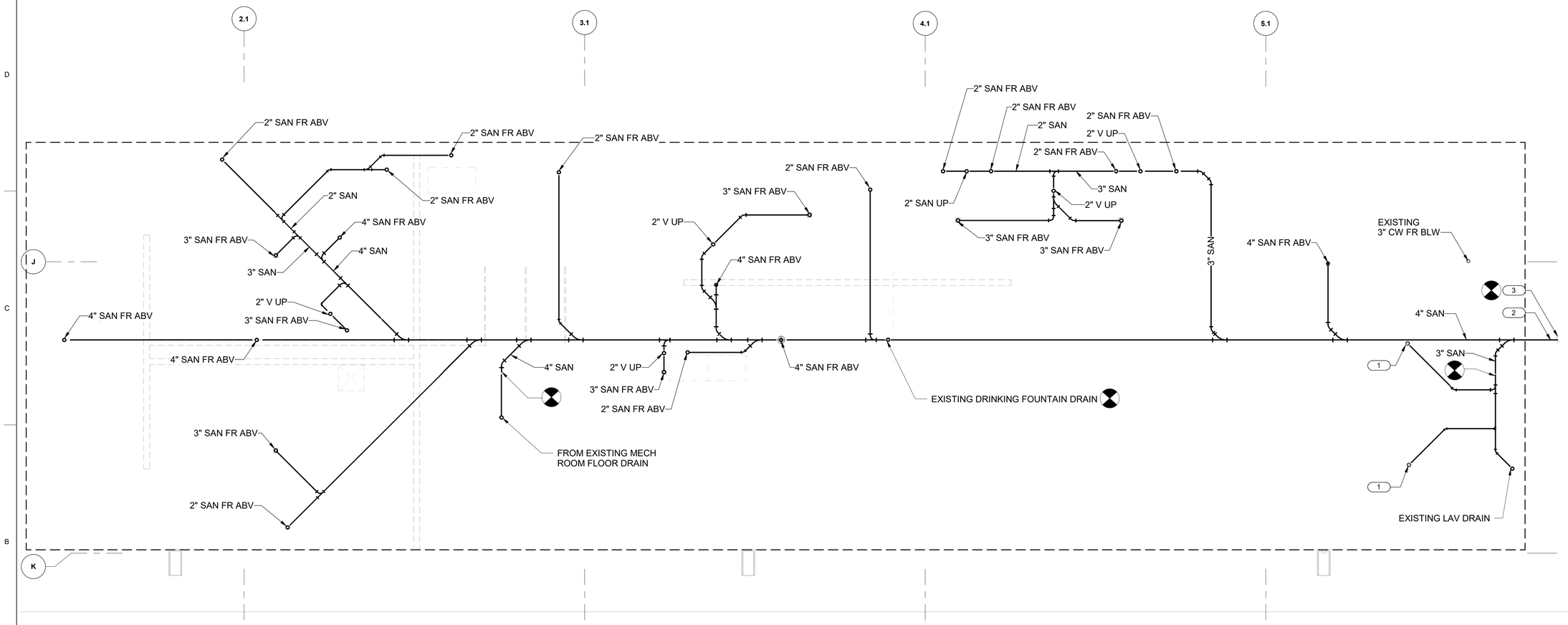
A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

SHEET KEYNOTES:

1 MAINTAIN UNDERGROUND CONNECTION TO EXISTING FLOOR DRAIN.

2 PROVIDE BACKWATER VALVE OUTSIDE OF BUILDING TO MATCH NEW BUILDING. REFER TO CIVIL DRAWINGS.

3 CONNECT TO EXISTING SANITARY PIPING.



EXISTING FIELD HOUSE - UNDERGROUND PLUMBING PLAN

1/4" = 1'-0"

EXIST TN

PN

1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

READY FOR CONSTRUCTION

AECOM

PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

CASEY FIELD & BOODIE ALBERT STADIUM

700 West Oak St
Covington, VA 24426

CLIENT

THE CITY OF COVINGTON

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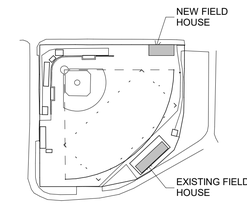
REGISTRATION

COMMONWEALTH OF VIRGINIA
NICHOLAS SCOTT LYONS
Lic. No. 060041
5/5/2023
PROFESSIONAL ENGINEER

KEY PLAN



SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

EXISTING FIELD HOUSE - UNDERGROUND PLUMBING PLAN

SHEET NUMBER

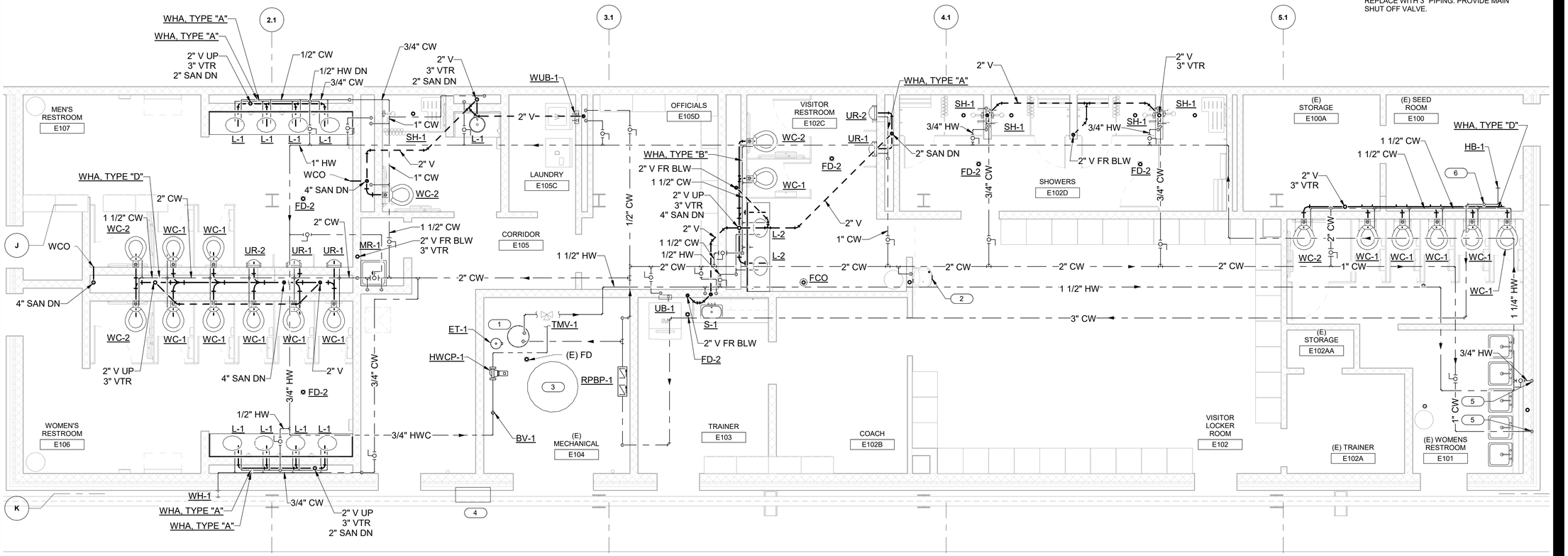
PU100

GENERAL NOTES THIS SHEET:

A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

SHEET KEYNOTES:

1. EXISTING GAS DOMESTIC WATER HEATER TO BE REUSED AS IS. RETAIN INTAKE/EXHAUST AND GAS SUPPLY PIPING AS IS.
2. EXISTING DRINKING FOUNTAIN TO REMAIN UNDISTURBED BUT IS TO BE CONNECTED TO NEW 1/2" COLD WATER SUPPLY PIPING.
3. REMOVE AND SAVE EXISTING WATER STORAGE TANK. COORDINATE DELIVERY TO NEW LOCATION WITH CLIENT.
4. REROUTE EXISTING GAS REGULATOR VENT TO AVOID INTERFERENCE WITH NEW EXTERIOR DOOR.
5. EXISTING LAVATORIES AND FAUCETS TO REMAIN UNDISTURBED BUT ARE TO BE CONNECTED TO NEW HOT AND COLD WATER SUPPLY PIPING IN CEILING SPACE. DO NOT DISTURB PIPING IN WALL.
6. EXISTING WATER SERVICE ENTRANCE LOCATION. CUT EXISTING SUPPLY AS CLOSE TO FLOOR AS POSSIBLE AND REPLACE WITH 3" PIPING. PROVIDE MAIN SHUT OFF VALVE.



EXISTING FIELD HOUSE - FIRST FLOOR PLUMBING PLAN

1/4" = 1'-0"

EXIST TN

PN

1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

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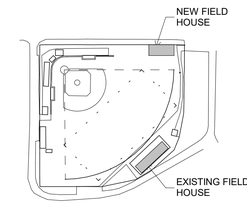

SUBMISSION

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PROJECT NUMBER

60699711

SHEET TITLE

EXISTING FIELD HOUSE - FIRST FLOOR PLUMBING PLAN

SHEET NUMBER

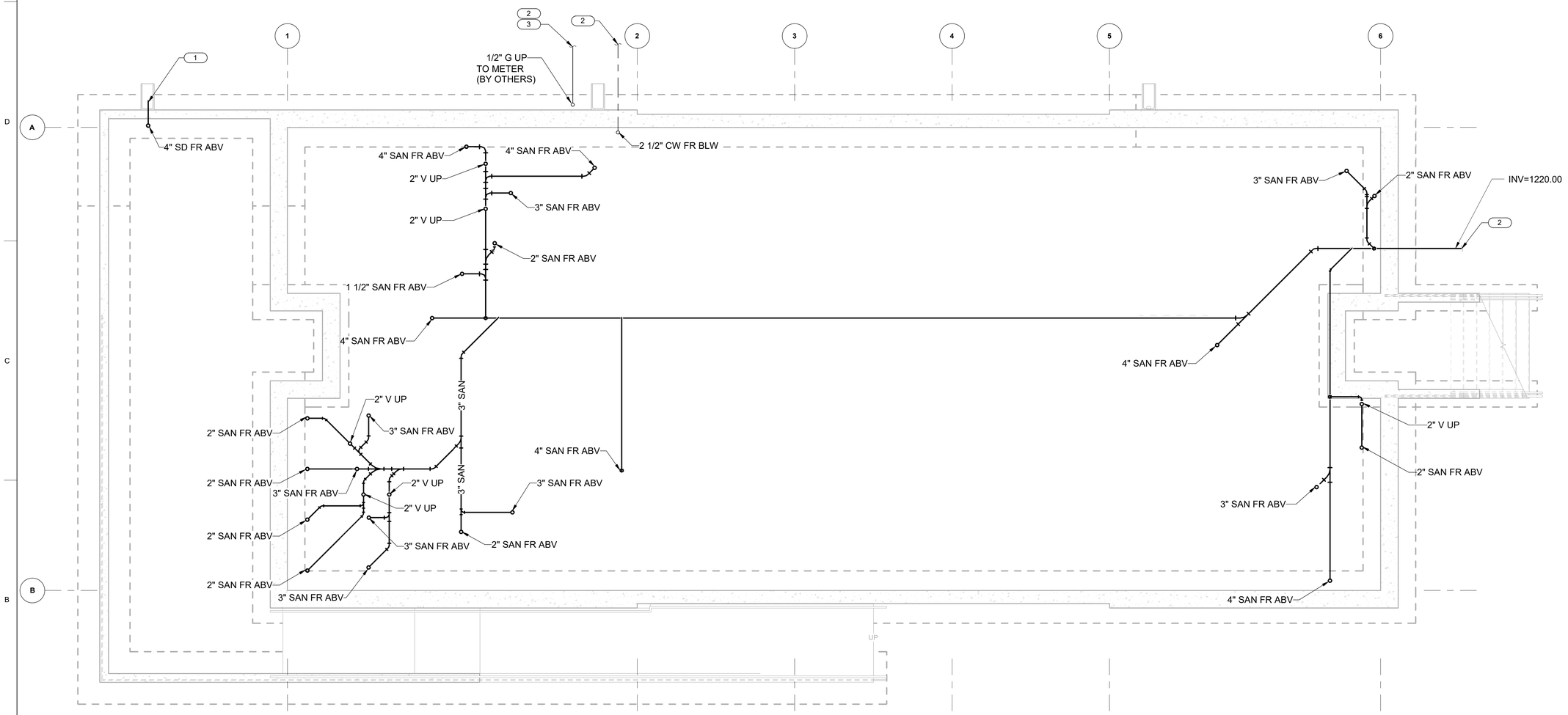
PL100

GENERAL NOTES THIS SHEET:

A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

SHEET KEYNOTES:

1. DISCHARGE ABOVE GRADE AND PROVIDE SPLASH BLOCK.
2. SEE CIVIL DRAWINGS FOR CONTINUATION.
3. 125 CFH MINIMUM DELIVERY REQUIRED FROM GAS COMPANY.



NEW FIELD HOUSE - UNDERGROUND PLUMBING PLAN

1/4" = 1'-0"

TN PN

1/4"=1'-0" 4' 2' 0 4' 8'

GRAPHIC SCALES

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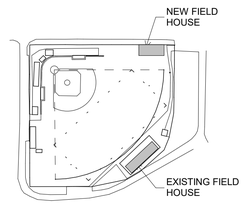

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PROJECT NUMBER

60699711

SHEET TITLE

NEW FIELD HOUSE - UNDERGROUND PLUMBING PLAN

SHEET NUMBER

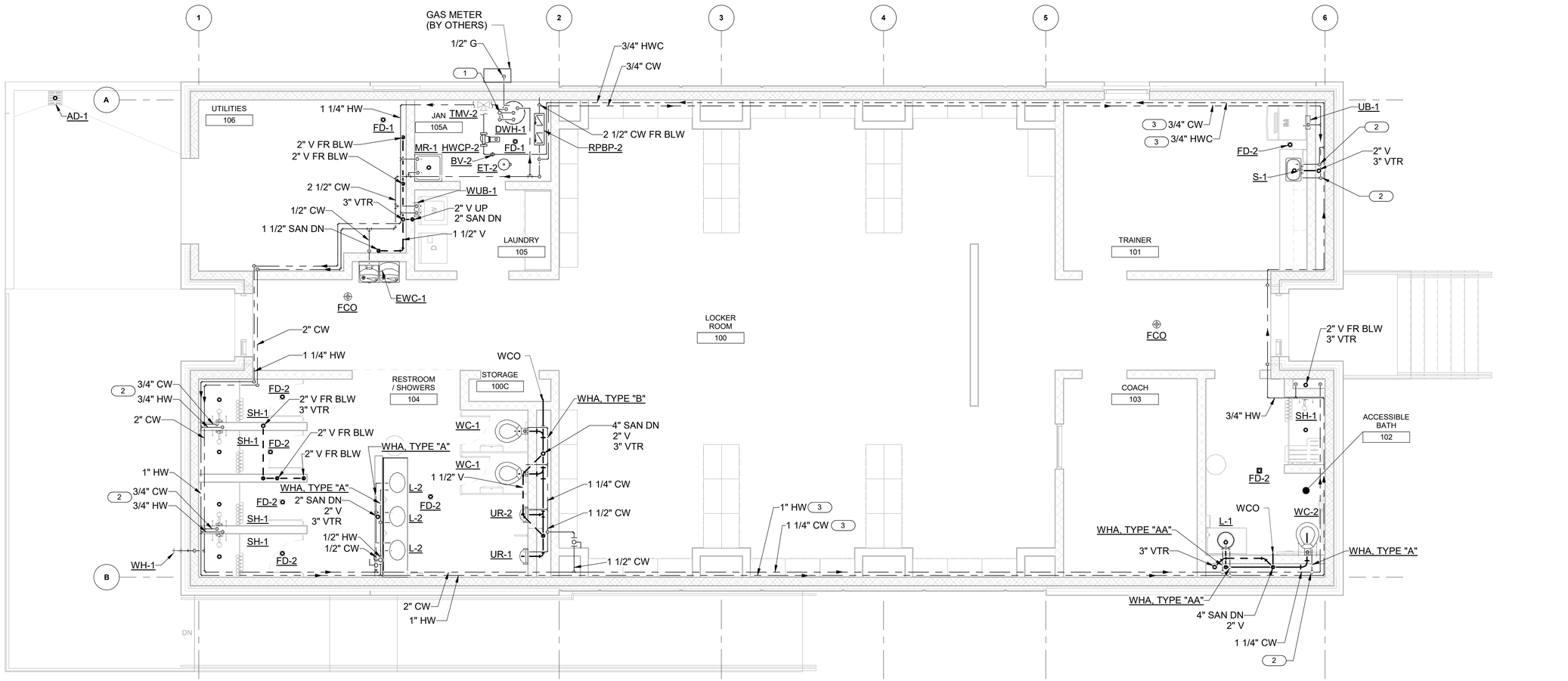
PU101

GENERAL NOTES THIS SHEET:

A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.

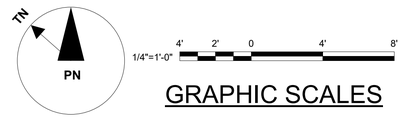
SHEET KEYNOTES:

1. SEPARATE 3" INTAKE AND EXHAUST TO SINGLE CONCENTRIC PIPE THROUGH ROOF. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE SHUTOFF VALVES IN THE VERTICAL WITH ACCESS PANELS. COORDINATE LOCATIONS WITH ARCHITECTURAL.
3. ROUTE EXPOSED PIPING AS HIGH AS POSSIBLE BUT BELOW WINDOWS AND BEAMS. COORDINATE ALL LOCATIONS WITH ARCHITECTURAL DRAWINGS.



NEW FIELD HOUSE - FIRST FLOOR PLUMBING PLAN

1/4" = 1'-0"



GRAPHIC SCALES

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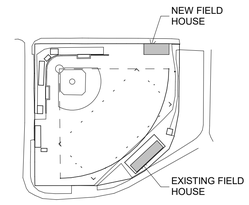

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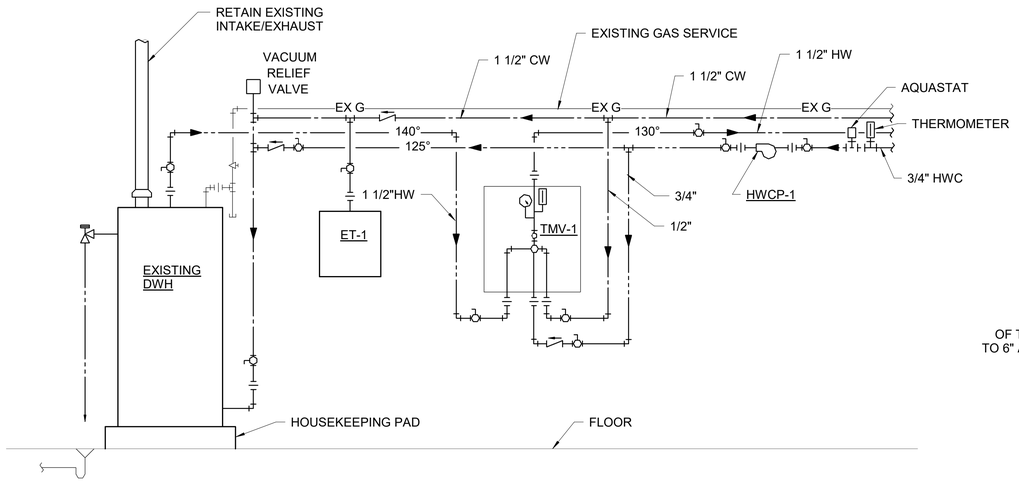
SHEET TITLE

NEW FIELD HOUSE - FIRST FLOOR PLUMBING PLAN

SHEET NUMBER

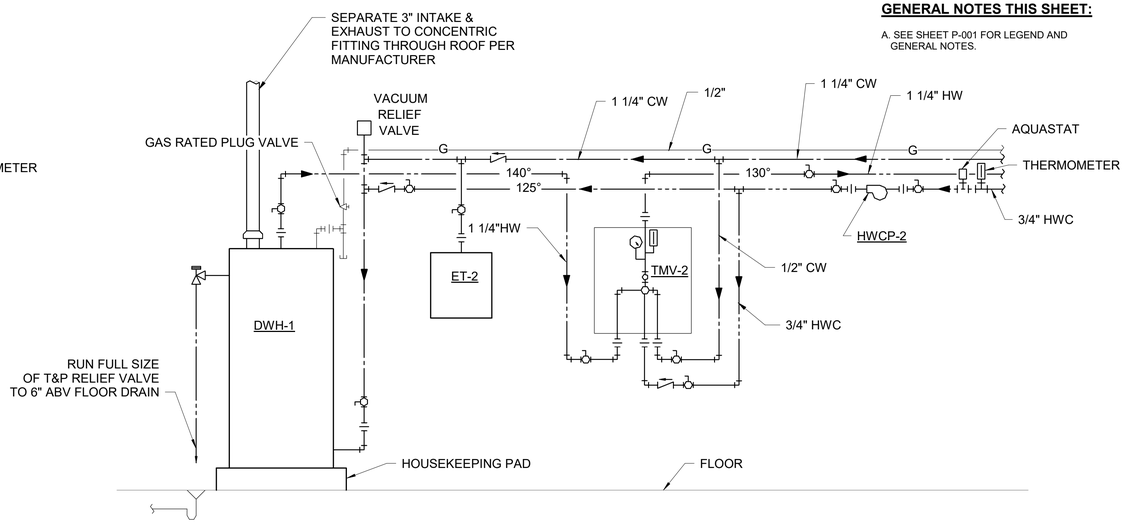
PL101



D1 / P-501

GAS WATER HEATER PIPING SCHEMATIC - EXISTING FIELD HOUSE

12" = 1'-0"



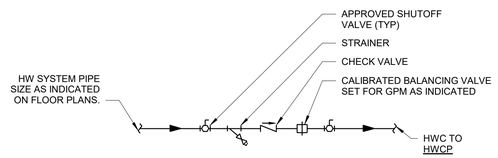
D4 / P-501

GAS WATER HEATER PIPING SCHEMATIC - NEW FIELD HOUSE

12" = 1'-0"

GENERAL NOTES THIS SHEET:

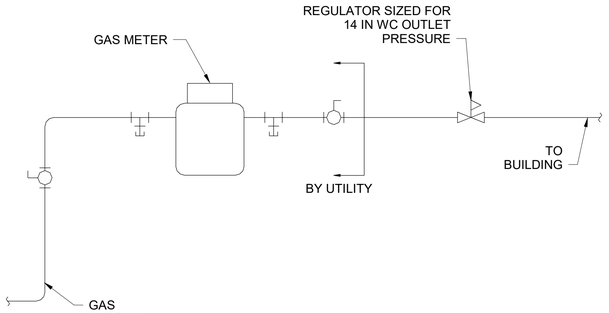
A. SEE SHEET P-001 FOR LEGEND AND GENERAL NOTES.



C1 / P-501

HOT WATER CIRCUIT SETTER ASSEMBLY DETAIL

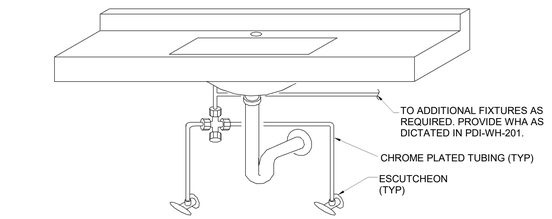
12" = 1'-0"



C3 / P-501

NATURAL GAS METER DETAIL

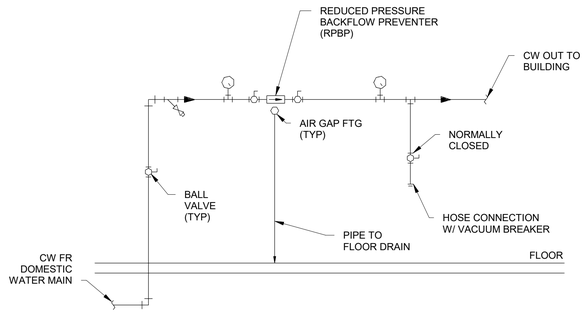
NO SCALE



C5 / P-501

POINT OF USE MIXING VALVE DETAIL

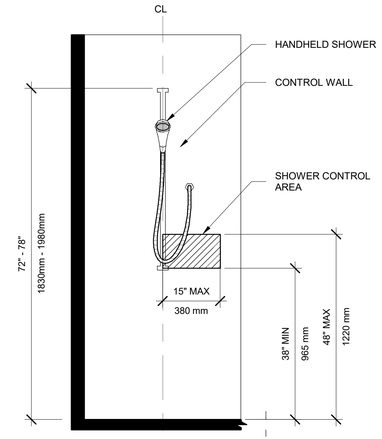
NO SCALE



A1 / P-501

WATER SERVICE ENTRANCE WITH RPBP DETAIL

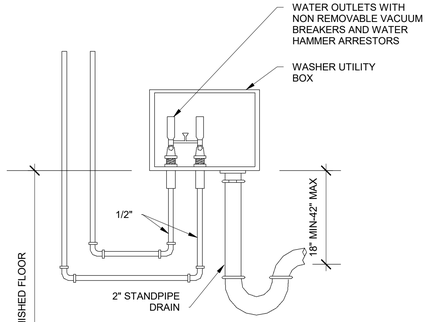
12" = 1'-0"



A3 / P-501

SHOWER CONTROLS DETAIL

12" = 1'-0"



A5 / P-501

WASHER UTILITY BOX DETAIL

NO SCALE

AECOM

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I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

SHEET TITLE

DETAILS

SHEET NUMBER

P-501

READY FOR CONSTRUCTION

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE DESCRIPTION	NOTES	MOUNTING HEIGHT	COLD WATER SIZE	HOT WATER SIZE	TRAP SIZE	DRAIN SIZE	VENT SIZE	BASIS OF DESIGN	
									MFG. FIXTURE/MFG. TRIM	MODEL FIXTURE/MODEL TRIM
AD-1	AREA DRAIN		FLUSH WITH FLOOR	-	-	-	4"	-	ZURN	Z610
EWC-1	BI-LEVEL WATER COOLER W/ BOTTLE FILLER	-	PER ADA	1/2"	-	1 1/4"	1 1/2"	1 1/2"	ELKAY	LVRCGRNTL8WSK
FD-1	MECH ROOM FLOOR DRAIN	1	FLUSH WITH FLOOR	-	-	4"	4"	2"	ZURN	Z415B
FD-2	GENERAL FLOOR DRAIN	1	FLUSH WITH FLOOR	-	-	3"	3"	1 1/2"	ZURN	Z415B
HB-1	HOSE BIBB	-	36"	3/4"	-	-	-	-	LEGEND	T-547
L-1	ADA LAVATORY WITH BATTERY FAUCET, 0.5 GPM	2	COUNTERTOP	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	ELKAY/BRADLEY	ELUH12/S53-3500
L-2	LAVATORY BATTERY FAUCET ONLY, 0.5 GPM	2	COUNTERTOP	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	BRADLEY	S53-3500
MR-1	PRECAST TERRAZZO BASIN WITH WALL MOUNTED FAUCET	-	FLOOR	1/2"	1/2"	3"	3"	1 1/2"	FIAT/T&S	MSBID2424/B-0665-BSTR
S-1	ADA SINGLE BOWL DROP-IN SINK WITH 1.5 GPM FAUCET	2	COUNTERTOP	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	ELKAY/KOHLER	LRADQ312255/K-596
SH-1	SHOWER FAUCET WITH TRIM & SLIDE BAR, 1.5 GPM	4	48" MAX	1/2"	1/2"	2"	2"	1 1/2"	AMERICAN STANDARD	TU662.211
UB-1	UTILITY BOX, COLD ONLY	-	48"	1/2"	-	-	-	-	IPS CORP.	AB9700 SERIES
UR-1	URINAL WITH BATTERY FLUSH VALVE, 0.125 GPF	3	24"	3/4"	-	INTEGRAL	2"	1 1/2"	SLOAN	SU-1009/ECOS 8186-0.125
UR-2	URINAL WITH BATTERY FLUSH VALVE, 0.125 GPF, ADA	3	17"	3/4"	-	INTEGRAL	2"	1 1/2"	SLOAN	SU-1009/ECOS 8186-0.125
WC-1	WALL HUNG WATER CLOSET WITH BATTERY FLUSH VALVE, 1.28 GPF	3	15"	1"	-	INTEGRAL	4"	2"	SLOAN	ST-2459/8111-1.28
WC-2	WALL HUNG WATER CLOSET WITH BATTERY FLUSH VALVE, ADA 1.28 GPF	3	16-18"	1"	-	INTEGRAL	4"	2"	SLOAN	ST-2459/8111-1.28
WH-1	WALL HYDRANT	-	18"	3/4"	-	-	-	-	WOODFORD	MODEL 65
WUB-1	WASHER UTILITY BOX - HW, CW, DRAIN	-	SEE DETAIL	1/2"	1/2"	2"	2"	1 1/2"	IPS CORP.	T200TPPVC

1. ALL FLOOR DRAINS SHALL HAVE TRAP SEALS TO PREVENT DRYING.
2. PROVIDE ASSE 1070 POINT OF USE MIXING VALVE AND SET AT 105 DEGREES F OUTLET TEMPERATURE.
3. ALL HEIGHTS ARE TO FLOOD RIM LEVEL OF FIXTURES.
4. MOUNTING HEIGHT IS TO CENTERLINE OF MIXING VALVE. MOUNTING HEIGHT OF SHOWER HEAD IS 78-80".

PUMP SCHEDULE

MARK	DESCRIPTION	NOTES	CAPACITY (GPM)	TOTAL HEAD (FT OF WC)	MIN. MOTOR HP	RPM	VOLTAGE/PHASE	BASIS OF DESIGN	
								MANUFACTURER	MANUFACTURER MODEL
HWCP-1	HOT WATER CIRCULATION PUMP	-	1.8	17.3	0.5	2562	208/1	BELL & GOSSETT	55-45
HWCP-2	HOT WATER CIRCULATION PUMP	-	1.5	16	0.5	2461	208/1	BELL & GOSSETT	55-45

WATER HEATER SCHEDULE

MARK	DESCRIPTION	NOTES	MIN. STORAGE (GAL)	E.W.T (F)	L.W.T. (F)	RECOVERY	HEATER SIZE		MIN. INPUT	VOLTAGE/PHASE	BASIS OF DESIGN	
							HEIGHT	WIDTH			MANUFACTURER	MANUFACTURER MODEL
DWH-1	GAS STORAGE TYPE	-	65	56	140	145 GPH	62 1/2"	28"	125,000 BTU/HR	120/1	LOCHINVAR	SWR125N

PIPE ACCESSORY SCHEDULE

MARK	Description	CAPACITY (GPM)	MIN. FLOW (GPM)	COLD E.W.T (F)	HOT E.W.T. (F)	L.W.T. (F)	CIRCULATION E.W.T (F)	MAX. PRESSURE DROP (PSIG)	LINE SIZE (IN)
BV-1	MANUAL BALANCING VALVE	1.8	-	-	-	-	-	1	3/4"
BV-2	MANUAL BALANCING VALVE	1.5	-	-	-	-	-	1	3/4"
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	113	-	-	-	-	-	5	3"
RPBP-2	REDUCED PRESSURE BACKFLOW PREVENTER	72.83	-	-	-	-	-	5	2 1/2"
TMV-1	THERMOSTATIC MIXING VALVE	25.5	1	56	140	130	125	5	1 1/2"
TMV-2	THERMOSTATIC MIXING VALVE	13.5	1	56	140	130	125	5	1 1/4"

TANK SCHEDULE

MARK	DESCRIPTION	NOTES	TOTAL VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	TANK SIZE		BASIS OF DESIGN	
					TANK HEIGHT (IN)	TANK WIDTH (IN)	MANUFACTURER	MANUFACTURER MODEL
ET-1	THERMAL EXPANSION TANK	-	8	3.2	19	12	AMTROL	ST-20VC
ET-2	THERMAL EXPANSION TANK	-	6	3.2	18	12	AMTROL	ST-12C-DD

PLUMBING SPECIFICATIONS

GENERAL:

PROVIDE AND TEST COMPONENTS IN ACCORDANCE WITH THE VIRGINIA PLUMBING CODE (2018), MANUFACTURERS INSTRUCTIONS, AND APPROVED PRODUCT DATA SUBMITTALS.

PIPING MATERIALS, PLUMBING FIXTURES, AND EQUIPMENT SHALL BEAR WARNING SIGNS, LABELS, STAMPS, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.

CLEAN INTERIOR OF PIPING. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES.

PROTECT PIPING DURING REMAINDER OF CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT AND DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC AND CONSTRUCTION WORK.

DRAWINGS INDICATE ONLY A GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.

CONTRACTOR SHALL PROVIDE CUT SHEETS OF ALL EQUIPMENT, FIXTURES, AND PIPING FOR ENGINEER REVIEW. CUT SHEETS SHALL SHOW MARKINGS OF SPECIFIED TESTING AGENCY AND CLEARLY INDICATE THE SELECTED MODEL.

SANITARY WASTE AND VENT PIPING (ABOVE GROUND):

A. MATERIAL: HUBLESS CAST IRON
B. PIPE: ASTM A 888, CISPI STD 301
C. FITTINGS: CISPI STD 310
D. COUPLINGS: ASTM C 1277
E. COPPER IS ACCEPTABLE FOR FINAL FIXTURE CONNECTIONS ONLY.

SANITARY WASTE AND VENT PIPING (UNDERGROUND):

A. MATERIAL: PVC.
B. PIPE: ASTM D 2665.
C. FITTINGS: ASTM D 2665.
D. INSTALL UNDERGROUND PVC PIPING ACCORDING TO ASTM D 2321.

DOMESTIC WATER PIPING:

ABOVE GROUND
A. MATERIAL: COPPER TYPE L.
B. PIPE: ASTM B88. CAST- OR WROUGHT- COPPER
C. FITTINGS: CAST COPPER, SOLDER JOINT ASME B32, LEAD-FREE ALLOYS.
D. JOINTS: BRAZED OR SOLDERED

BELOW GROUND
A. MATERIAL: COPPER TYPE K.
B. PIPE: ASTM B88 SOFT WROUGHT-COPPER.
C. FITTINGS: CAST COPPER, SOLDER JOINT ASME B32, LEAD-FREE ALLOYS.
D. JOINTS: BRAZED

NATURAL GAS PIPING:
A. MATERIAL: BLACK STEEL, SEAMLESS
B. PIPE: ASTM A53/A53M, TYPE S, GRADE B
C. FITTINGS: BLACK STEEL
D. JOINTS: THREADED, WELDED

PIPING INSULATION:

A. COLD WATER PIPE 1 INCH AND SMALLER: FLEXIBLE ELASTOMERIC OR GLASS-FIBER, TYPE 1 - 1/2 INCH THICK
B. COLD WATER PIPE 1-1/4 INCHES AND LARGER: FLEXIBLE ELASTOMERIC OR GLASS-FIBER, TYPE 1 - 1/2 INCH THICK
C. HOT WATER PIPE 4 INCH AND SMALLER: FLEXIBLE ELASTOMERIC - 3/4 INCH THICK OR GLASS-FIBER, TYPE 1 - 1/2 INCH THICK.

NOTE: INSULATED PIPE WILL BE EXPOSED AND PAINTED IN BOTH FIELD HOUSES. COORDINATE WITH ARCHITECTURAL ON COLOR.

VALVES:

ALL VALVES SHALL BE RATED FOR THEIR WORKING FLUID/GAS TEMPERATURE AND PRESSURE.

BALL VALVES 2 INCHES AND SMALLER SHALL BE BRASS OR BRONZE WITH THREADED BODIES FOR PIPE AND SOLDER-TYPE CONNECTIONS FOR TUBING.

BALL VALVES 2 1/2 INCHES TO 4 INCHES SHALL BE STEEL, IRON, OR STAINLESS STEEL WITH THREADED OR FLANGED ENDS.

Y-TYPE STRAINERS SHALL HAVE CAST IRON BODY IN ACCORDANCE WITH ASTM A 126.

VALVE TAGS SHALL BE BRASS AND STAMPED OR ENGRAVED WITH 1/2 INCH LETTERS FOR PIPING SYSTEM ABBREVIATION AND 1/2 INCH NUMBERS FOR PIPE SIZE. TAGS SHALL BE ATTACHED BY BRASSWIRE-LINK CHAIN.

GENERAL NOTES THIS SHEET:

A. EQUIPMENT BASIS OF DESIGN IS PROVIDED TO ILLUSTRATE THE DESIGNER'S INTENT AND IS NOT MEANT TO LIMIT THE SELECTION OF EQUAL OR GREATER EQUIPMENT. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

METERS AND GAGES

PRESSURE GAGES SHALL BE DIRECT-MOUNTED, METAL-CASE, DIAL-TYPE WITH GLASS WINDOW, METAL RING, AND GRADE A ACCURACY.

THERMOMETERS SHALL BE METAL-CASE, COMPACT-STYLE, LIQUID-IN-GLASS TYPE.

WATER CLOSETS (WC-1 & WC-2)

A. STANDARD: ASME A112.19.2
B. TYPE: WALL MOUNTED, BACK OUTLET WITH ELECTRONIC BATTERY-POWERED FLUSH VALVE
C. BOWL MATERIAL: VITREOUS CHINA
D. HEIGHT: 16 TO 19 INCHES
E. COLOR: WHITE
F. TOILET SEAT: COMMERCIAL (HEAVY DUTY), WHITE PLASTIC OPEN FRONT

URINALS (UR-1 & UR-2):
A. STANDARD: ASME A112.19.2
B. TYPE: ABA WALL MOUNT WITH ELECTRONIC BATTERY-POWERED FLUSH VALVE
C. MATERIAL: VITREOUS CHINA
D. HEIGHT: 24" MAX
E. COLOR: WHITE

LAVATORIES (L-1):
A. STANDARD: ASME A112.19.2
B. TYPE: STAINLESS STEEL, UNDERMOUNTED, ADA
C. NOMINAL SIZE: ROUND, 14-3/8" DIA
D. HEIGHT: CABINET UNDERMOUNT
E. FAUCET: TOP ONE-HOLE PUNCH, BATTERY POWERED ELECTRONIC, POLISHED CHROME

LAVATORY FAUCET ONLY (L-2):
A. STANDARD: ASME A112.18.1
B. TYPE: DECK MOUNT
C. NOMINAL FLOW: 0.5 GPM
D. HEIGHT: COUNTERTOP MOUNT
E. FAUCET: TOP ONE-HOLE PUNCH, BATTERY POWERED ELECTRONIC, POLISHED CHROME

SINKS (S-1):
A. STANDARD: ASME A112.19.3
B. TYPE: STAINLESS STEEL, DROP-IN, ADA
C. NOMINAL SIZE: 31" X 22"
D. HEIGHT: COUNTER HEIGHT
E. FAUCET: SINGLE HOLE, SINGLE LEVER, FLEXIBLE SPOUT W/SPRAY FUNCTION, CHROME

WATER COOLER (EWC-1):
A. STANDARD: ASME A112.19.3
B. TYPE: STAINLESS STEEL, BI-LEVEL, BOTTLE FILLER
C. NOMINAL SIZE: 36" X 18"
D. HEIGHT: 32-15/16" - 39-7/16"
E. FAUCET: INTEGRAL

MOP SINK (MR-1):

A. STANDARD: ASME A112.18.2
B. TYPE: MOLDED STONE, FLOOR MOUNTED, RECTANGULAR
C. NOMINAL SIZE: 24 BY 24 INCHES
D. HEIGHT: 10 INCHES
E. FAUCET: WALL MOUNT TYPE WITH ROUGH CHROME FINISH, WALL BRACE, VACUUM BREAKER, PAIL HOOK, LEVER HANDLES, AND STOPS.

SHOWER FAUCET (SH-1):

A. STANDARD: ASME 1016
B. TYPE: ABA SHOWER TRIM KIT, CHROME, 1.5 GPM
C. NOMINAL SIZE: 36" SLIDE BAR W/59" METAL HOSE
D. HEIGHT: 38"-48" TO VALVE; 78"-80" TO SHOWER HEAD
E. FAUCET: THREE FUNCTION HAND SHOWER, VACUUM BREAKER, SLIDE BAR, CONTROLS, TRIM

FLOOR DRAINS (FD-1 & FD-2):

A. STANDARD: ASME A112.6.3
B. MATERIAL: CAST IRON
C. TOP LOADING CLASSIFICATION: LIGHT DUTY

CONNECTIONS:

CONNECT DOMESTIC WATER, WASTE, AND VENT PIPING TO WATER-SERVICE PIPING AS INDICATED, BUT NOT SMALLER THAN REQUIRED BY EQUIPMENT AND FIXTURES.

ESCUTCHEONS AND FLOOR PLATES:

INSTALL ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS. ESCUTCHEONS SHALL BE ONE-PIECE, STEEL TYPE WITH POLISHED, CHROME-PLATED FINISH AND SETSCREW FASTENER.

INSTALL FLOOR PLATES FOR PIPING PENETRATIONS OF EQUIPMENT-ROOM FLOORS. SPLIT FLOOR PLATES SHALL BE OF CAST BRASS WITH CONCEALED HINGE.

IDENTIFICATION AND LABELS:

PROVIDE AND INSTALL LABELS ON EQUIPMENT. LABELS SHALL BE BLACK WITH WHITE LETTERING. LABELS SHALL BE CLEARLY READABLE FROM A DISTANCE OF 5 FEET.

PROVIDE AND INSTALL LABELS INDICATING LOCATION AND MARK OF EQUIPMENT LOCATED ABOVE CEILING REQUIRING ROUTINE MAINTENANCE. LABELS SHALL BE WHITE WITH BLACK LETTERING AND SHALL BE CLEARLY READABLE FROM A DISTANCE OF 5 FEET.

PROVIDE PRE-PRINTED SELF-ADHESIVE PIPE LABELS WITH LABELS INDICATING SERVICE, AND SHOWING FLOW DIRECTION IN ACCORDANCE WITH ASME A13.1.

PIPE SUPPORT:

PROVIDE PIPE SUPPORT IN ACCORDANCE WITH ANSI/MSS SP-58.

AECOM

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5/5/2023
PROFESSIONAL ENGINEER

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

SCHEDULES & SPECIFICATIONS

SHEET NUMBER

P-601

READY FOR CONSTRUCTION

LIGHTING

CEILING MOUNTED RECESSED, SURFACE OR PENDANT MOUNTED LIGHT FIXTURE.
UPPER CASE LETTER DESIGNATION DENOTES TYPE, SEE THE FIXTURE SCHEDULE.
LOWER CASE LETTERS INDICATE BUILT IN OCCUPANCY SENSOR.
HALF SOLID FILL INDICATES INTEGRAL EMERGENCY BATTERY PACK.

CEILING MOUNTED RECESSED, SURFACE OR PENDANT MOUNTED LIGHT FIXTURE TO BE DEMOLISHED OR RELOCATED.

WALL MOUNTED LIGHT FIXTURE.
UPPER CASE LETTER DESIGNATION DENOTES TYPE, SEE THE FIXTURE SCHEDULE.
LOWER CASE LETTER DESIGNATION DENOTES ZONE CONTROL.
HALF SOLID FILL INDICATES INTEGRAL EMERGENCY BATTERY PACK.

WALL MOUNTED LIGHT SWITCH WITH OCCUPANCY SENSOR

CEILING MOUNTED

SUBSCRIPT 'a' DESIGNATES ZONE CONTROLLED (WHEN PRESENT). OS DEIGNATES OCCUPANCY SENSOR. VS DESIGNATES VACANCY SENSOR. IR DESIGNATES INFRARED RECEIVER. IT DESIGNATES INFRARED TRANSMITTER

LIGHTING SWITCH. SUBSCRIPT 'D' DESIGNATED DIMMER (WHEN PRESENT).

SINGLE POLE SWITCH TO BE DEMOLISHED OR RELOCATED.

PC — PHOTOCELL. MOUNT PHOTOCELL ON ROOF WHERE INDICATED.

TS — TIME SWITCH.

HOA — HAND-OFF-AUTO SELECTOR SWITCH.

WALL MOUNTED EXIT LIGHT. SOLID FILL INDICATES LIT FACE(S). FACE ARROWS INDICATE THE DIRECTION OF TRAVEL TO EXIT.

CEILING MOUNTED EXIT LIGHT. SOLID FILL INDICATES LIT FACE(S). FACE ARROWS INDICATE THE DIRECTION OF TRAVEL TO EXIT.

POWER DEVICES

DUPLEX RECEPTACLE. WALL MOUNT AT 18" AFF TO CENTER UON

DUPLEX RECEPTACLE TO BE DEMOLISHED OR RELOCATED

QUAD RECEPTACLE TO BE DEMOLISHED OR RELOCATED

ANNOTATION FOR RECEPTACLE WIRING DEVICES AND EQUIPMENT CONNECTIONS. SUBSCRIPTS INDICATE THE FOLLOWING FOR ALL RECEPTACLES AND EQUIPMENT CONNECTIONS;

AC	ABOVE COUNTER TOP, MH 44" AFF TO OUTLET CENTER UON.
EWC	ELECTRIC WATER COOLER WITH GFCI
G	GROUND FAULT CIRCUIT INTERRUPTER (GFCI)
IM	ICE MACHINE
WP	WEATHERPROOF WHILE-IN-USE COVER
TV	TELEVISION, COORDINATE MH WITH LOCATION OF TELEVISION
EX	EXISTING
D	DRYER
W	WASHER

SIMPLEX RECEPTACLE. WALL MOUNT AT 42" AFF TO CENTER UON

SPECIAL RECEPTACLE WITH NEMA CONFIGURATION. COORDINATE NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER. LEG INDICATES WALL MOUNT AT 42" AFF TO CENTER UON.

ONELINE

PANEL " D " — PANELBOARD BUS

CIRCUIT BREAKER
Y INDICATES TRIP RATING
Z INDICATES NUMBER OF POLES IF OTHER THAN 3

TRANSFORMER

3P 60/NF — NON-FUSED DISCONNECT SWITCH. 60= SWITCH RATING, NF = NON-FUSIBLE, 3P = NO. OF POLES.

3P 60/40 — FUSED DISCONNECT SWITCH. 60 = SWITCH RATING, 40 = FUSE RATING, 3P = NO. OF POLES.

POWER DISTRIBUTION

3P 60/40 — FUSED DISCONNECT SWITCH. 60 = SWITCH RATING, 40 = FUSE RATING, 3P = NO. OF POLES.

3P 60/NF — NON-FUSED DISCONNECT SWITCH. 60= SWITCH RATING, NF = NON-FUSIBLE, 3P = NO. OF POLES.

MDP1
- PANELBOARD
- PANEL DESIGNATION TYPICAL
- NUMBER DENOTES PANEL SEQUENCE
- P DENOTES PANEL
- MD DENOTES MAIN DISTRIBUTION

L1P1-1,3,5 — CIRCUIT HOME RUN. LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS.

CONDUIT RUN

GROUNDING

GC — GROUND CONDUCTOR.

TW — GROUND ROD TEST WELL.

GROUND ROD

TELECOM DEVICES

JUNCTION BOX FOR DATA OUTLET, MH 18" AFF UNLESS OTHERWISE NOTED WITH 1" EMT CONDUIT AND PULL STRING TO ABOVE CEILING OR TO 9' AFF IF THERE IS NO CEILING IN ROOM.

TV: INDICATES FOR TELEVISION, COORDINATE MOUNTING HEIGHT WITH LOCATION OF TELEVISION.

LINEWEIGHT

LIGHT LINEWEIGHT INDICATES EXISTING

HEAVY LINEWEIGHT INDICATES NEW WORK

ELECTRICAL GENERAL NOTES

1 SEE SHEET G-002 FOR ABBREVIATIONS. SEE SHEET G-003 FOR GENERAL SYMBOLOGY.

2 PERFORM ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC VERSION 2017), APPLICABLE NFPA SECTIONS AND ALL OTHER APPLICABLE CODES INCLUDING LOCAL AMENDMENTS.

3 THE DRAWINGS REPRESENT THE DESIGN INTENT. PROVIDE ALL ACCESSORIES AND APPURTENANCES INCLUDING, BUT NOT LIMITED TO, SLEEVES, OPENINGS, SUPPORTS, BOXES, AND PATCHING AS REQUIRED TO EXECUTE THE CONTRACT DOCUMENTS.

4 MOUNTING HEIGHT, UNLESS OTHERWISE NOTED, IS TO CENTER LINE OF EQUIPMENT; EXCEPT MOUNTING HEIGHT OF LIGHTING FIXTURES IS TO BOTTOM OF FIXTURE.

5 MOUNT OUTLET BOXES SO THAT NONE OCCUR BACK TO BACK IN WALLS. COORDINATE DEVICE MOUNTING HEIGHTS WITH APPROVED CASEWORK SUBMITTALS, ARCHITECTURAL ELEVATIONS AND DETAILS, AND WORK OF OTHER TRADES PRIOR TO INSTALLATION.

6 MECHANICAL EQUIPMENT IS SHOWN IN APPROXIMATE LOCATIONS. FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND PIPING, SEE MECHANICAL DRAWINGS.

7 COORDINATE THE LOCATIONS AND MOUNTING HEIGHTS OF LIGHTING FIXTURES IN ALL ROOMS WITH THE FINAL LOCATIONS OF PIPES, DUCTS AND OTHER EQUIPMENT FOR BEST ARRANGEMENT. FIXTURES SHALL BE EASILY ACCESSIBLE FOR MAINTENANCE.

8 CONNECT EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS TO BATTERY UNITS AHEAD OF LOCAL SWITCHING. THE LAMPS SHALL BE CONTROLLED BY LOCAL SWITCH AND THE BATTERY UNIT SHALL BE POWERED AT ALL TIMES.

9 MOUNT BOTTOM OF WALL-MOUNTED EXIT SIGNS 6" ABOVE THE TOP OF DOOR FRAME.

10 WHERE LIGHT SWITCHES ARE INDICATED TO BE MOUNTED BEHIND DOOR, MOUNT SUCH SWITCHES A MINIMUM OF 3'-9" FROM HINGED SIDE.

11 WHERE MORE THAN ONE SWITCH OCCURS IN HOLLOW METAL FRAME, MOUNT ONE ABOVE THE OTHER WITH TOP SWITCH MOUNTED AT 4'-0".

12 CONDUIT ROUTING IS PROVIDED FOR DESIGN INTENT UNLESS INDICATED OTHERWISE. COORDINATE ROUTE WITH FIELD CONDITIONS AND WORK OF OTHER TRADES. ROUTE CONDUIT WITHIN BUILDING PARALLEL AND PERPENDICULAR TO THE BUILDING LINES.

13 LOCATE ALL RACEWAYS TO AVOID INTERFERENCE WITH DUCTS, PIPES, MECHANICAL EQUIPMENT, WITH REMOVAL OF CEILING TILES, OR WITH ACCESS TO EQUIPMENT WHICH REQUIRES PERIODIC ADJUSTMENT OR MAINTENANCE.

14 COORDINATE THE LOCATION OF CONDUIT ENTRANCES FOR ALL EQUIPMENT WITH APPROVED SUBMITTALS PRIOR TO INSTALLING THE PATHWAYS TO SERVE THE EQUIPMENT.

15 PROVIDE PULL BOXES TO FACILITATE CABLE PULLING AT A MINIMUM OF ONE PULL BOX EVERY 100 FEET OF STRAIGHT CONDUIT AND ONE AFTER TWO 90 DEGREE (OR EQUIVALENT) BENDS.

16 SEAL PENETRATIONS THROUGH FLOORS OR RATED PARTITIONS TO MAINTAIN THE INTEGRITY OF THE FIRE AND ACOUSTIC RATINGS. COORDINATE LOCATIONS OF SMOKE/FIRE PARTITIONS WITH LIFE-SAFETY DRAWINGS.

17 PROVIDE NAMEPLATES ON THE EXTERIOR OF ALL ELECTRICAL PANELS AND ENCLOSURES AS FOLLOWS:

LINE 1: DEVICE ID
LINE 2: DEVICE RATING
LINE 3: POWER SOURCE
LINE 4: INSTALLATION DATE

PANEL L1D1
100A, 208Y/120V - 3ϕ, 4W
FEEDS FROM PANEL MDP
INSTALLED: 2019

FOR DISCONNECT SWITCHES AND MOTOR STARTERS THE TOP LINE SHALL BE THE NAME/DESIGNATION OF THE EQUIPMENT BEING FED BY THE SWITCH/STARTER.

18 PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH INDICATED CIRCUIT INSTALLATION AND SWITCHING AS INDICATED FOR LIGHTING EVEN THOUGH CONDUCTOR QUANTITIES (HASH MARKS) ARE NOT INDICATED ON CONDUIT SYMBOL OR HOMERUN SYMBOL.

19 INDIVIDUAL BRANCH CIRCUITS FROM SIMILAR POWER SOURCE MAY BE CONSOLIDATED FOR POWERED SYSTEMS FURNITURE UNLESS INDICATED OTHERWISE; CONDUIT FILL AND CONDUCTOR DERATING SHALL BE PER NEC. CONSIDER NEUTRAL CONDUCTORS TO BE CURRENT CARRYING WHEN DERATNG CONDUCTORS.

20 PRIOR TO INSTALLATION, VERIFY REQUIRED CLEARANCES FOR THE FINISHED COLUMNS, HUNG CEILING, PARTITIONS, ETC. ARE MAINTAINED.

21 COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR RECEPTACLES, SWITCHES, ETC. WITH OTHER TRADES PRIOR TO INSTALLATION.

22 VERIFY THE FINAL CONNECTION REQUIREMENTS FOR ALL EQUIPMENT WITH SUPPLIER AND PROVIDE JUNCTION BOXES, RECEPTACLES OR DISCONNECT SWITCHES AS REQUIRED. MAKE ALL CONNECTIONS AS REQUIRED

23 ALL RACEWAYS RUNNING ACROSS AN EXPANSION JOINT SHALL BE EQUIPPED WITH EXPANSION FITTINGS. FURNISH APPROVED EXPANSION FITTINGS.

24 PROVIDE ALL EXTERIOR ELECTRICAL EQUIPMENT, RACEWAYS AND DEVICES AS WEATHERPROOF TYPE.

25 FURNISH PULL STRING IN EACH RACEWAY OVER 10'-0" IN LENGTH WHERE PERMANENT WIRE IS NOT INSTALLED. PULL STRING SHALL BE RATED FOR 200LBS.

26 RUN ALL WIRING CONCEALED UNLESS SPECIFIED OTHERWISE.

27 PROVIDE MINIMUM NUMBER OF LUGS AND NECESSARY PROVISIONS TO ACCOMMODATE FEEDERS.

28 PAINT ENCLOSURE OF RECESSED PANELBOARDS LOCATED IN CORRIDORS THE SAME COLOR AS CORRIDOR WALL.

29 PROVIDE PAINT MATCHED COVERS OVER EXISTING EXTERIOR ELECTRICAL BOXES NOT IN USE.

30 PROVIDE INTEGRAL BATTERY PACK IN ALL EXIT SIGNS.

31 PROVIDE INTEGRAL BATTERY PACK IN ALL EMERGENCY DESIGNATED LIGHTING FIXTURES.

ELECTRICAL GENERAL NOTES - DEMOLITION

1 REMOVE INDICATED ELECTRICAL WORK. REMOVE RACEWAYS, WIRING, AND EQUIPMENT WHERE INSTALLED EXPOSED OR WHERE INSTALLED CONCEALED BEHIND ACCESSIBLE CONSTRUCTION. RACEWAYS THAT CANNOT BE REMOVED AS INDICATED ABOVE SHALL BE ABANDONED IN PLACE AND ASSOCIATED WIRING AND DEVICES SHALL BE REMOVED.

2 ASSOCIATED CIRCUITRY SHALL BE DEFINED TO INCLUDE ALL RACEWAYS, CONDUCTORS, BOXES, WIRING DEVICES, PLATES, LAMPS, LUMINAIRES, SWITCHES, STARTERS, ETC. WHICH ARE ASSOCIATED WITH THE ITEM TO BE REMOVED.

3 THE PROTECTIVE DEVICE SHALL REMAIN AS AN INTEGRAL PART OF THE EXISTING PANEL.

4 WHERE CONDUIT ASSOCIATED WITH AN ITEM TO BE REMOVED IS IN AN INACCESSIBLE AREA, SUCH AS ENCASED IN CONCRETE, THE INACCESSIBLE CONDUIT ONLY SHALL BE ABANDONED IN PLACE, UNLESS INDICATED TO BE REUSED. ALL CONDUCTORS SHALL BE REMOVED AND CONDUIT SHALL BE CUT OFF FLUSH AND CAPPED. LABEL BOTH ENDS OF CONDUIT.

5 WHERE SUCH INACCESSIBLE CONDUIT ENDS OR MUST BE TERMINATED IN FINISHED SPACE, REMOVE THE CONDUIT OR BOX TO BELOW THE FINISHED SURFACE OF WALL, CEILING OR FLOOR, FILL VOID WITH NON-SHRINKING GROUT AND FINISH TO MATCH SURROUNDING SURFACES.

6 WHERE DEMOLITION OF CONDUITS WOULD CREATE OPENINGS IN THE EXTERIOR WALLS OR ROOF THAT WOULD REQUIRE PATCHING, DEMOLISH UP TO 12" OF WALL OR ROOF AND CAP CONDUIT.

7 WHERE A PORTION OF EQUIPMENT IS IDENTIFIED TO BE REMOVED, REMOVE ONLY THAT PORTION AND MAINTAIN REMAINING EQUIPMENT IN GOOD CONDITION FOR RECONNECTION.

8 WHERE EXTENSION OF AN EXISTING CIRCUIT IS REQUIRED TO MAINTAIN SERVICE, RUN CONDUIT AND WIRE AS INDICATED FROM THE CIRCUIT'S EXISTING LOCATION TO ITS NEW LOCATION.

9 REMOVE EQUIPMENT, DEVICES, AND CIRCUITRY ASSOCIATED WITH WORK OF OTHER TRADES; SEE ARCHITECTURAL/INTERIORS, MECHANICAL, PLUMBING, DRAWINGS FOR DETAILS.

10 WHERE AN ITEM OF EQUIPMENT IS INDICATED TO BE RETAINED, REMOVE ANDSTORE. INFORM OWNER.ARCHITECT OF ANY DEFECTS AT TIME OF REMOVAL.

11 REMOVE ANY ELECTRICAL ASSOCIATED WITH ABANDONED EQUIPMENT OR SYSTEMS.

12 DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND SHALL NOT INTERFERE WITH ACTIVITIES IN OTHER BUILDING AREAS. DEMOLISHED MATERIALS, UNLESS SPECIFICALLY INDICATED TO REMAIN OR BE TURNED OVER TO THE OWNER, SHALL BE PROMPTLY AND APPROPRIATELY REMOVED DISPOSED OF. PARTICULARLY MATERIALS CONTAINING HAZARDOUS MATERIALS SUCH AS LAMPS CONTAINING MERCURY OR TRANSFORMERS CONTAINING PCB'S. CONTRACTOR SHALL COORDINATE APPROPRIATE STAGING AREA WITH THE OWNER. COORDINATE WITH OWNER FOR OWNER-REMOVAL OF PROPERTY FROM THE PROJECT LOCATION. COORDINATE ANY POWER INTERRUPTIONS THAT AFFECT AREAS OUTSIDE THE LIMITS OF WORK WITH OWNER PRIOR A MINIMUM OF TEN WORKING DAYS PRIOR TO WORK.

13 DEMOLITION DRAWINGS AND/OR NOTES ARE BASED ON AS BUILT DRAWINGS AND CASUAL FIELD OBSERVATION AND SCHEMATICALLY INDICATE THE GENERAL SCOPE OF DEMOLITION. THE CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS BEFORE WORK. FAILURE BY THE CONTRACTOR TO HAVE ACQUAINTED HIM/HERSELF WITH AVAILABLE INFORMATION CONCERNING EXISTING CONDITIONS, INCLUDING EXISTING DRAWINGS, SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITIES OF PERFORMANCE OF WORK IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

14 CONTRACTOR SHALL REPAIR DAMAGE TO THE BUILDING AREAS IDENTIFIED TO REMAIN WHICH OCCURS DURING THE COURSE OF THE DEMOLITION. REPAIR TO MATCH SURROUNDING SURFACES.

15 PROVIDE TEMPORARY POWER FOR EQUIPMENT REQUIRED TO REMAIN OPERATIONALFOR THE PRESERVATION OF THE BUILDING. EXISTING ELECTRICAL WORK ASSOCIATED WITH SUCH EQUIPMENT SHALL REMAIN UNTIL REPLACEMENT EQUIPMENT IS OPERATIONAL.

16 PERFORM DEMOLITION IN PHASES WHERE INDICATED OR REQUIRED. PROVIDE TEMPORARY SERVICES TO AFFECTED SYSTEMS FROM SOURCES OUTSIDE AFFECTED AREA TO MAINTAIN SERVICE WHERE REQUIRED.

17 WHERE TEMPORARY REMOVAL OF WORK IS REQUIRED TO ACCOMMODATE WORK OF THIS OR OTHER TRADES, REMOVE AND STORE ELECTRICAL ITEMS IN THE PATH OF WORK. REINSTALL AND RECONNECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND/OR AS DIRECTED AFTER COMPLETION OF THE WORK IN THE AREA. PROVIDE TEMPORARY SERVICES SUCH AS EGRESS LIGHTING AND EXIT SIGNAGE AND ASSOCIATED CIRCUITRY TO AN UNAFFECTED APPROPRIATE POWER SOURCE WHERE THE WORK AREA MUST BE MAINTAINED OPEN FOR EGRESS.

18 WHERE CEILINGS ARE REMOVED TEMPORARILY FOR ABOVE-CEILING WORK, REMOVE/STORE OR TEMPORARILY SUPPORT CEILING-MOUNTED DEVICES/EQUIPMENT IN PLACE. REINSTALL AND RECONNECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND/OR AS DIRECTED AFTER COMPLETION OF THE WORK IN THE AREA.

AECOM

PROJECT

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05/05/2023
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PROFESSIONAL ENGINEER

SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

SHEET TITLE

ELECTRICAL LEGEND

SHEET NUMBER

E-001

READY FOR CONSTRUCTION

PART 1 - GENERAL

1.1 REFERENCES

A. CONDITIONS OF THE CONTRACT AND DIVISION 1, GENERAL REQUIREMENTS, APPLY TO WORK OF THIS SECTION. WHERE PARAGRAPHS OF THIS SECTION CONFLICT WITH SIMILAR PARAGRAPHS OF DIVISION 1, REQUIREMENTS OF THIS SECTION SHALL PREVAIL.

B. EXAMINE DRAWINGS AND OTHER SECTIONS OF SPECIFICATIONS FOR REQUIREMENTS THAT AFFECT WORK OF THIS SECTION.

C. AS USED IN THIS SECTION, "PROVIDE" MEANS "FURNISH AND INSTALL" AND "POS" MEANS "PROVIDED UNDER OTHER SECTIONS." "FURNISH" MEANS "TO PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT," AND "INSTALL" MEANS "TO UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT." THE WORD "PROVIDE" IS IMPLIED IN ALL STATEMENTS.

D. PERFORM WORK AND PROVIDE MATERIAL AND EQUIPMENT AS SHOWN ON DRAWINGS AND AS SPECIFIED OR INDICATED IN THIS SECTION OF THE SPECIFICATIONS. COMPLETELY COORDINATE WORK OF THIS SECTION WITH WORK OF OTHER TRADES AND PROVIDE A COMPLETE AND FULLY FUNCTIONAL INSTALLATION. DRAWINGS AND SPECIFICATIONS FORM COMPLIMENTARY REQUIREMENTS; PROVIDE WORK SPECIFIED AND NOT SHOWN, AND WORK SHOWN AND NOT SPECIFIED AS THOUGH EXPLICITLY REQUIRED BY BOTH. ALTHOUGH WORK IS NOT SPECIFICALLY SHOWN OR SPECIFIED, PROVIDE SUPPLEMENTARY OR MISCELLANEOUS ITEMS, APPURTENANCES, DEVICES, AND MATERIALS OBVIOUSLY NECESSARY FOR A SOUND, SECURE, AND COMPLETE INSTALLATION. REMOVE ALL DEBRIS CAUSED BY CONTRACTORS WORK.

E. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN CONTRACT. IT IS NOT INTENDED TO SPECIFY OR TO SHOW EVERY OFFSET, FITTING, OR COMPONENT; HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFIED AS NECESSARY TO MAKE INSTALLATION COMPLETE AND OPERATIONAL.

F. PERFORM WORK STRICTLY AS REQUIRED BY RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES THAT HAVE LAWFUL JURISDICTION.

G. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES (IF REQUIRED), PAY FEES AND BACKCHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.

H. AS WORK PROGRESSES AND FOR DURATION OF CONTRACT, MAINTAIN COMPLETE AND SEPARATE SET OF PRINTS OF CONTRACT DRAWINGS AT JOB SITE AT ALL TIMES. RECORD WORK COMPLETED AND ALL CHANGES FROM ORIGINAL CONTRACT DRAWINGS CLEARLY AND ACCURATELY, INCLUDING WORK INSTALLED AS A MODIFICATION OR ADDITION TO THE ORIGINAL DESIGN.

I. WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
1. PANELBOARDS
2. GROUNDING COMPONENTS
3. LIGHTING FIXTURES, INCLUDING LAMPS AND BALLASTS
4. CONDUIT AND RACEWAYS
5. WIRE AND CABLE
6. BRANCH CIRCUIT WIRING
7. WIRING DEVICES AND PLATES
8. MOTOR CONTROLLERS
9. SAFETY SWITCHES
10. FIRE SEAL, (AND) FIRE-PROOF FOAM
11. LIGHTING CONTROLS
12. NAMEPLATES, LABELS, AND TAGS
13. TESTING

1.2 CONTRACT DOCUMENTS

A. WORK TO BE PERFORMED UNDER THIS SECTION IS SHOWN PRIMARILY ON THE ELECTRICAL DRAWINGS.

B. LISTING OF DRAWINGS DOES NOT LIMIT RESPONSIBILITY OF DETERMINING FULL EXTENT OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, ELECTRICAL, AND OTHER DRAWINGS AND OTHER SECTIONS THAT INDICATE TYPES OF CONSTRUCTION IN WHICH WORK SHALL BE INSTALLED AND WORK OF OTHER TRADES WITH WHICH WORK OF THIS SECTION MUST BE COORDINATED.

C. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.

D. ITEMS REFFERED TO IN SINGULAR NUMBER IN CONTRACT DOCUMENTS SHALL BE PROVIDED IN QUANTITIES NECESSARY TO COMPLETE WORK.

E. DRAWINGS ARE DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE ABSOLUTELY PRECISE; THEY ARE NOT INTENDED TO SPECIFY OR TO SHOW EVERY OFFSET, FITTING, AND COMPONENT. THE PURPOSE OF THE DRAWINGS IS TO INDICATE A SYSTEM CONCEPT, THE MAIN COMPONENTS OF THE SYSTEMS, AND THE APPROXIMATE GEOMETRICAL RELATIONSHIPS. BASED ON THE SYETMS CONCEPT, THE MAIN COMPONENTS, AND THE APPROXIMATE GEOMETRICAL RELATIONSHIPS, THE CONTRACTOR SHALL PROVIDE ALL OTHER COMPONENTS AND MATERIALS NECESSARY TO MAKE THE SYSTEMS FULLY COMPLETE AND OPERATIONAL.

1.3 DISCREPANCIES IN DOCUMENTS

A. ADDRESS QUESTIONS REGARDING DRAWINGS TO ARCHITECT IN WRITING BEFORE AWARD OF CONTRACT. OTHERWISE, ARCHITECT'S INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.

1.4 CODES, STANDARDS, AUTHORITIES, AND PERMITS

A. PERFORM WORK IN STRICT ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS,CODES,ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES HAVING LEGAL JURISDICTION OVER THE SITE.

1.5 RECORD DRAWINGS

A. MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE COMPLETE AND CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUISITIONS FOR PAYMENT ARE SUBMITTED.

1.6 SUBMITTALS

A. SUBMIT SHOP DRAWINGS AND PRODUCT DATA WITHIN 5 DAYS AFTER AWARD OF CONTRACT. CHECK, STAMP AND MARK WITH PROJECT NAME SUBMITTALS BEFORE TRANSMITTING TO OWNER. INDICATE DEVIATIONS FROM CONTRACT DOCUMENTS.

B. SCHEDULE AT LEAST TEN WORKING DAYS, EXCLUSIVE OF TRANSMITTAL TIME, FOR SUBMITTAL REVIEW.

C. MATERIAL AND EQUIPMENT REQUIRING SHOP DRAWING AND PRODUCT DATA SUBMITTAL SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO:
1. LIGHTING FIXTURES
2. WIRING DEVICES AND PLATES
3. RACEWAY, PULL BOXES, JUNCTION BOXES
4. SAFETY SWITCHES
5. LIGHTING CONTROLS
6. PANELBOARDS
7. MOTOR CONTROLLERS
8. GROUNDING COMPONENTS

D. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PREPARE AN OPERATION AND MAINTENANCE MANUAL, WHICH SHALL INCLUDE CATALOG DATA, EQUIPMENT INFORMATION, WIRING DIAGRAMS, WARRANTY INFORMATION, TEST REPORTS, ETC., FOR THE ELECTRICAL INSTALLATION. SUBMIT TWO COPIES TO THE OWNER FOR APPROVAL.

E. UPON COMPLETION OF WORK THE CONTRACTOR SHALL DEMONSTRATE THE INSTALLATION AND MAKE SUCH TESTS AS MAY BE REQUIRED TO SATISFY THE ARCHITECT/ENGINEER AND OWNER THAT WORK IS INSTALLED IN ACCORDANCE WITH DRAWINGS, SPECIFICATIONS AND INSTRUCTIONS.

PART 2 - PRODUCTS

2.1 RACEWAYS

A. ELECTRICAL METALLIC TUBING (EMT), ANSI C80.3 GALVANIZED STEEL.

B. FLEXIBLE METAL CONDUIT (FMC), GALVANIZED STEEL, UL1. LIQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC) IN WET LOCATIONS.

C. RIGID STEEL CONDUIT (RGS), ANSI C80.1.

D. MALLEABLE IRON OR STEEL CONNECTORS AND COUPLINGS WITH INSULATED THROATS; MANUFACTURED ELBOWS; LOCKNUTS; AND PLASTIC OR BAKELITE BUSHINGS AT TERMINATIONS. COUPLINGS AND CONNECTORS SHALL BE GLAND AND RING COMPRESSION OR STAINLESS STEEL MULTIPLE POINT LOCKING OR STEEL CONCRETE-TIGHT SET SCREW. COMPRESSION COUPLINGS & CONNECTORS SHALL FORM POSITIVE GROUND. SET-SCREW CONNECTORS AND COUPLINGS SHALL HAVE WALL THICKNESS EQUAL TO CONDUIT, CASE-HARDENED, HEX-HEAD SCREWS AND SEPARATE GROUND WIRE. BUSHINGS FOR RIGID STEEL AND CONNECTORS FOR EMT SHALL HAVE INSULATING INSERTS THAT MEET REQUIREMENTS OF UL 514 FLAME TEST.

E. RACEWAYS SHALL BE 3/4" MINIMUM UNLESS INDICATED OTHERWISE, COMPLY WITH APPLICABLE UL AND ANSI STANDARDS APPLICABLE FOR RACEWAYS USED. METAL CLAD (MC) IS NOT ALLOWED.

2.2 OUTLET BOXES

A. FOR CONCEALED WORK SHALL BE AT LEAST 4" SQUARE OR OCTAGONAL, GALVANIZED PRESSED STEEL WITH PLASTER RINGS AS REQUIRED. FOR EXPOSED CONDUIT WORK SHALL BE CAST ALUMINUM ALLOY WITH CAST ALUMINUM ALLOY COVERS.

B. FITTED WITH GALVANIZED STEEL PLASTER COVERS OF REQUIRED DEPTH TO FINISH FLUSH WITH FINISHED WALL OR CEILING.

C. SWITCH BOXES, RECEPTACLE BOXES, AND OTHER OUTLET BOXES SHALL BE STANDARD 4" SQUARE WITH PLASTER RINGS OR GANG COVER AS REQUIRED.

D. PROVIDE ONLY ENOUGH CONDUIT OPENINGS TO ACCOMMODATE CONDUITS AT INDIVIDUAL LOCATION. EACH BOX SHALL BE LARGE ENOUGH TO ACCOMMODATE NUMBER AND SIZES OF CONDUITS, WIRES, AND SPLICES TO MEET NEC REQUIREMENTS, BUT SHALL BE AT LEAST SIZE SHOWN OR SPECIFIED. NECESSARY VOLUME SHALL BE OBTAINED BY USING BOXES OF PROPER DIMENSIONS.

2.3 JUNCTION BOXES AND PULL BOXES

A. PROVIDE CODE GAUGE GALVANIZED STEEL JUNCTION AND PULL BOXES FOR CONDUIT 1-1/4" TRADE SIZE AND LARGER, WHERE INDICATED AND AS NECESSARY TO FACILITATE INSTALLATION, OF REQUIRED DIMENSIONS, WITH ACCESSIBLE, REMOVABLE SCREW-ON COVERS. PROVIDE JUNCTION AND PULL BOXES IN SPECIAL SIZES AND SHAPES DETERMINED IN FIELD WHERE NECESSARY.

B. COVERS SHALL BE ACCESSIBLE. DO NOT INSTALL JUNCTION BOXES ABOVE CEILING EXCEPT WHERE CEILING IS REMOVABLE OR WHERE ACCESS PANEL IS PROVIDED.

C. SHEET METAL PULL BOXES SHALL BE SUPPORTED ADEQUATELY TO MAINTAIN SHAPE. LARGER BOXES SHALL HAVE STRUCTURAL STEEL BRACING WELDED INTO RIGID ASSEMBLY FORMED ADEQUATELY TO MAINTAIN ALIGNMENT IN SHIPMENT AND INSTALLATION. SECURE COVERS WITH CORROSION-RESISTANT SCREWS OR BOLTS.

2.4 WIRE AND CABLE (600 V INSULATION)

A. PROVIDE SINGLE-CONDUCTOR, ANNEALED COPPER WIRE AND CABLE WITH INSULATION RATED 600V, OF SIZES SPECIFIED AND SCHEDULED ON DRAWINGS, FOR SECONDARY SERVICE, FEEDERS, BRANCH, AND SYSTEM WIRING. WIRE INSULATED FOR 300V MAY BE USED WHERE VOLTAGE IS LESS THAN 100V, IF ISOLATED FROM HIGHER VOLTAGES. WIRE SIZES SHOWN AND SPECIFIED ARE AMERICAN WIRE GAUGE FOR COPPER.

B. WIRE #10 AND LARGER SHALL BE STRANDED; #12 AND SMALLER SHALL BE SOLID. WIRE AND CABLE SHALL HAVE THWN-THHN OR XHHW INSULATION, 75°C.

C. WIRING WITHIN LIGHT FIXTURES AND OTHER HIGH-TEMPERATURE EQUIPMENT SHALL HAVE 150°C INSULATION AS REQUIRED BY NEC.

D. SPLICES AND TERMINATIONS
1. MAKE SPLICES IN BRANCH CIRCUIT WIRING WITH UL-LISTED, SOLDERLESS CONNECTORS RATED 600V, OF SIZES AND TYPES REQUIRED BY MANUFACTURER'S RECOMMENDATIONS WITH TEMPERATURE RATINGS EQUAL TO THOSE OF WIRES. SPLICE CONNECTORS SHALL BE SCREW-ON. INSULATE SPLICES WITH INTEGRAL COVERS OR WITH PLASTIC OR RUBBER FRICTION TAPE TO PRESERVE CHARACTERISTICS OF WIRE AND CABLE INSULATION.
2. PROVIDE STANDARD BOLT-ON LUGS WITH HEX SCREWS TO ATTACH COPPER WIRE AND CABLE TO PANELBOARDS AND ELECTRICAL EQUIPMENT.
3. AMPACITY OF SPLICES AND CONNECTORS SHALL BE EQUAL TO THOSE OF ASSOCIATED WIRES AND CABLES.
4. PRODUCTS TO COMPLY WITH UL 486A AND UL 486B.

2.5 COLOR CODING

A. COLOR CODE SECONDARY SERVICE, FEEDERS, AND BRANCH CIRCUIT CONDUCTORS AS FOLLOWS: 208Y/120V WHITE (NEUTRAL), BLACK, RED AND BLUE. PROVIDE WITH SOLID GREEN GROUNDING CONDUCTOR.
120/240V WHITE (NEUTRAL), BLACK AND RED. PROVIDE WITH SOLID GREEN GROUNDING CONDUCTOR.

B. BRANCH CIRCUIT CONDUCTORS #12 AND #10 SHALL HAVE SOLID COLOR COMPOUND, SOLID COLOR COATING. NEUTRALS AND EQUIPMENT GROUNDS SHALL HAVE SOLID COMPOUND OR SOLID COLOR COATING (WHITE AND GREEN), EXCEPT WHERE COLORED STRIPES ARE REQUIRED. CONDUCTORS #8 AND LARGER WITH STRIPES, BANDS OR HASH MARKS SHALL HAVE BACKGROUND COLOR OTHER THAN WHITE AND GREEN.

2.6 WIRE PULLING EQUIPMENT

A. PROVIDE POLYETHYLENE ROPES WITH NOT LESS THAN 200-LB TENSILE STRENGTH FOR PULLING WIRE.

B. PROVIDE FISH WIRES FOR TELEPHONE AND OTHER EMPTY CONDUIT SYSTEMS REQUIRED, WITHOUT SPLICES AND WITH AMPLE EXPOSED LENGTHS AT EACH END.

2.7 WIRING DEVICES

A. PROVIDE WIRING DEVICES BY SINGLE MANUFACTURER. DEVICE COLORS SHALL BE WHITE.

B. TOGGLE SWITCHES:
1. SINGLE-POLE SHALL BE 20A., 120-277V AC.
2. THREE-WAY SHALL BE 20A., 120-277V AC.
3. SPECIFICATION GRADE TO COMPLY WITH UL20.

C. RECEPTACLES:
1. DUPLEX SHALL BE 120V, 15A, 1-POLE, 3W GROUNDING.
2. HEAVY DUTY RECEPTACLES SHALL BE SIZED AS REQUIRED FOR INTENDED SERVICE.
3. SPECIFICATION GRADE, COMPLY WITH NEMA WD1 AND UL 498.

D. TIME SWITCH:
1. 24 HOUR DIGITAL PROGRAMMABLE TIME SWITCH, WITH AUTOMATIC ADJUSTMENTS FOR DAYLIGHT SAVINGS TIME. CONTACTS SHALL BE RATED FOR 20 AMPS.
2. CLOCK CONFIGURABLE FOR 12-HOUR (A.M./P.M.) OR 24-HOUR FORMAT.
3. SCHEDULE PERIODS SETTABLE TO THE MINUTE.
4. SET TIME ON TO 5PM AND TIME OFF TO MIDNIGHT.
5. AUTOMATIC SEQUENCED ON AND OFF SWITCHING OF EXTERIOR LIGHTING AT TIMES SET AT THE TIME SWITCH ALLOWING TIMED-OFF OVERRIDES FROM THE COUNTDOWN TIMER.
6. NONVOLATILE MEMORY SHALL RETAIN ALL SETUP CONFIGURATIONS. AFTER A POWER FAILURE, THE TIME SWITCH SHALL AUTOMATICALLY REBOOT AND RETURN TO NORMAL SYSTEM OPERATION, INCLUDING ACCURATE TIME OF DAY AND DATE.
7. PHOTOCELL TO PREVENT EXTERIOR LIGHTING FROM OPERATING UNTIL SUNSET.

E. COUNTDOWN TIMER:
1. MECHANICAL COUNTDOWN TIMER WITH ZERO TO SIX HOUR DIAL FOR VARIED COUNTDOWN TIME SELECTION. 20 AMP RATED NORMALLY OPEN (NO) AND NORMALLY CLOSED (NC) CONTACTS FOR ON OR OFF TIMING RESPECTIVELY.
2. PROVIDE DEVICE PLATE WITH CALIBRATED PERMANENT TIME MARKINGS. COUNTDOWN TIMER MOUNTS IN STANDARD SWITCH BOX.

F. HAND-OFF-AUTO SELECTOR SWITCH:
1. IPDT CENTER OFF 120 VOLT SELECTOR SWITCH WITH 20A CONTACTS.
2. ROTARY ACTION MAINTAINED CONTACT.
3. PROVIDE IN NEMA 1 ENCLOSURE WITH HAND-OFF-AUTO LEGEND PLATE.

G. OCCUPANCY SENSORS:
1. WALL SWITCH: PASSIVE INFRARED SENSOR WITH SINGLE OR DOUBLE OVERRIDE SWITCH AS INDICATED BY SYMBOL.
   A. DEVICE SHALL FIT STANDARD DECORA-STYLE DEVICE PLATE.
   B. DEVICE SHALL DETECT SMALL MOTION WITHIN 20' IN ALL DIRECTIONS (180 DEGREE PATTERN).
   C. SHALL HAVE PHOTOCELL OPTION (WITH DISABLE) WHERE DEVICE IS SHOWN IN A ROOM WITH NATURAL LIGHT.
   D. ADJUST SENSORS FOR CONSISTENT DETECTION OF PEOPLE WITHOUT FALSE TRIGGERING DUE TO HVAC OR SUNLIGHT.
   E. COORDINATE TIME DELAY SETTING WITH OWNER.
2. CEILING SENSOR: PASSIVE INFRARED SENSOR OR PASSIVE INFRARED AND ULTRASONIC DUAL-TECHNOLOGY.
   A. DEVICE SHALL DETECT MOTION WITHIN 20' IN ALL DIRECTIONS (360 DEGREE PATTERN).
   B. PROVIDE POWER PACK FOR EACH CONTROLLED CIRCUIT.
   C. SYSTEM SHALL ACCEPT INTERCONNECTION OF MULTIPLE SENSORS AND/OR MULTIPLE POWER PACKS.
   D. POWER PACKS SHALL BE RATED FOR 20A, 120/277V. PROVIDE ISOLATED HVAC CONTROL RELAY OPTION.
   E. COORDINATE TIME DELAY SETTING WITH OWNER.

H. ALL LIGHTING CONTROLS SHALL BE PROVIDED BY THE SAME MANUFACTURER AND SHALL BE COMPATIBLE WITH THE LUMAIRES PROVIDED. COORDINATE WITH THE LIGHTING CONTROLS MANUFACTURER TO PROVIDE A COMPLETE AND FULLY FUNCTIONING SYSTEM, INCLUDING BUT NOT LIMITED TO POWER PACKS, MODULES, INTERCONNECTING CIRCUITRY AND ACCESSORIES.

2.8 WIRING DEVICE PLATES

A. ONE-PIECE, SCREW FASTENED, COMPLY WITH UL 514A.

B. NAMEPLATE DESIGNATIONS FOR DEVICE PLATES SHALL BE ENGRAVED DIRECTLY ON PLATES AND FILLED IN IN BLACK.

C. PROVIDE PLASTIC DEVICE WALL PLATES FOR TELEPHONE/DATA DEVICES. COORDINATE WALL PLATE WITH TELEPHONE/DATA OUTLET INSERT.

D. DEVICE PLATES SHALL BE BY MANUFACTURER OF WIRING DEVICES.

E. RECEPTACLE DEVICE PLATES FOR CIRCUITS OTHER THAN 120V, 2-WIRE, SHALL BE ENGRAVED WITH 1/4" LETTERS, FILLED RED, INDICATING VOLTAGE CHARACTERISTICS AND CIRCUIT NUMBER OF OUTLET.

F. OUTLETS SHALL BE FLUSH TO SURFACE UNLESS OTHERWISE INDICATED.

G. DEVICE PLATES SHALL BE OF SAME COLOR AS DEVICE.

2.9 LUMINAIRES

A. INSTALL LIGHTING FIXTURES, EQUIPMENT AND COMPONENTS WHERE SHOWN ON DRAWINGS, AS LISTED IN FIXTURE SCHEDULES AND AS SPECIFIED, WIRED AND ASSEMBLED. PROVIDE APPROVED ALIGNER CANOPIES, HANGERS, AND OTHER APPURTENANCES AS REQUIRED.

B. LED AND LOW VOLTAGE FIXTURES SHALL BE SUPPLIED AS A SINGLE SYSTEM. ALL CONTROL GEAR (POWER SUPPLIES, TRANSFORMERS, DIMMING INTERFACES, LED DRIVERS, ETC.) REQUIRED FOR NORMAL OPERATION OF LED LUMINAIRES SHALL BE SUPPLIED.

C. ALL LED FIXTURES REPRESENT THE MOST CURRENT VERSION AVAILABLE FROM THE SPECIFIED MANUFACTURER AT TIME OF SPECIFICATION. DUE TO THE INEVITABLE DELAY BETWEEN 100% CD SPECIFICATION AND FIXTURE SUBMITTAL BY CONTRACTOR AND INEVITABLE IMPROVEMENTS IN LED TECHNOLOGY, UPDATES TO THE LED FIXTURES ARE ANTICIPATED. AT TIME OF FIXTURE SUBMITTAL, CONTRACTOR MUST SUBMIT THE MOST CURRENT, UP TO DATE FIXTURE EQUIVALENT OF THE SPECIFIED FIXTURE FROM THE MANUFACTURER.

D. LED DRIVERS SHALL HAVE A 10-YEAR MINIMUM WARRANTY, 10%-100% DIMMING USING 0-10V LOW VOLTAGE SIGNAL.

2.10 CIRCUIT BREAKERS

A. PROTECTIVE DEVICES SHALL BE MOLDED CASE CIRCUIT BREAKERS PROVIDING COMPLETE CIRCUIT OVERCURRENT PROTECTION BY HAVING INVERSE TIME AND INSTANTANEOUS TRIPPING CHARACTERISTICS.

B. CIRCUIT BREAKERS SHALL BE OPERATED BY A TOGGLE-TYPE HANDLE AND SHALL HAVE A QUICK-MAKE, QUICK-BREAK OVER-CENTER SWITCHING MECHANISM THAT IS MECHANICALLY TRIP FREE.

C. AUTOMATIC TRIPPING OF THE BREAKER SHALL BE CLEARLY INDICATED BY THE HANDLE POSITION.

D. PROVIDE HACR RATED CIRCUIT BREAKERS FOR MOTOR CIRCUIT PROTECTION WHERE CONNECTED TO MOTORS OR MECHANICAL EQUIPMENT.

E. COMPLY WITH UL 489.

F. SERIES RATED EQUIPMENT SHALL NOT BE UTILIZED.

2.11 MOTOR CONTROLLERS:

A. ALL MOTOR CONTROLLERS SHALL CONFORM TO THE LATEST APPLICABLE STANDARDS OF NEMA, ANSI, AND IEEE. OVERLOAD PROTECTION SHALL BE PROVIDED FOR THE MOTOR SERVED. COORDINATE OVERLOAD PROTECTION RATING WITH NEC AND THE ACTUAL NAMEPLATE LOAD. PROVIDE MOTOR CONTROLLER FOR TYPE, SIZE, AND DUTY AS SPECIFICALLY APPLIED.

B. UNITS SHALL BE DESIGNED, RATED, AND APPROVED BY THE MANUFACTURER FOR USE WITH THE TYPE OF LOAD CONNECTED.

C. PROVIDE LINE REACTOR OR TUNED HARMONIC FILTER TO LIMIT HARMONIC DISTORTION INTO THE ELECTRICAL DISTRIBUTION SYSTEM. PROVIDE CONDITIONING FOR LONG RUNS TO THE MOTOR AS RECOMMENDED BY THE MANUFACTURER.

D. PROVIDE ISOLATED CONTROL INTERFACE, COMPATIBLE WITH BUILDING AUTOMATION SYSTEM.

E. PROVIDE MANUFACTURER OPERATOR INTERFACE INTEGRAL TO UNIT.

F. OBTAIN APPROVAL OF MOTOR CONTROLLER LOCATIONS FROM BUILDING MANUFACTURER.

G. VARIABLE FREQUENCY DRIVES (VFD):
1. UNITS SHALL BE DESIGNED, RATED AND APPROVED BY THE MANUFACTURER FOR THE TYPE OF LOAD CONNECTED, UNIT SHALL PROVIDE OVERLOAD PROTECTION.
2. VFDS SHALL BE PULSE MODULATED (PWM(, INSULATED BIPOLAR TRANSISTOR (IGBT) OUTPUT DESIGN AND SHALL CLOSELY RESEMBLE A SINE WAVE.
3. PROVIDE LINE REACTOR OR TUNED HARMONIC FILTER TO LIMIT HARMONIC DISTORTION INTO THE ELECTRICAL DISTRIBUTION SYSTEM. PROVIDE OUT CONDITIONING FOR LONG RUNS AS RECOMMENDED BY THE MANUFACTURER
4. UNIT SHALL HAVE A NEMA 1 ENCLOSURE. PROVIDE INTEGRAL DISCONNECT WHERE REQUIRED.
5. PROVIDE CONTROL INTERFACE AND PROTOCOLS AS REQUIRED BY BUILDING MANUFACTURER.

2.12 SURGE PROTECTIVE DEVICES:

A. COMPLY WITH UL 1449.

2.13 GROUNDING AND BONDING:

A. COMPLY WITH UL 467.

2.14 SAFETY SWITCHES:

A. FUSED AND NONFUSED SAFETY SWITCHES SHALL BE PROVIDED AS REQUIRED. SAFETY SWITCHES SHALL BE ENCLOSED HEAVY-DUTY TYPE WITH QUICK-MAKE, QUICK-BREAK MECHANISM AND EXTERNAL LOCKING OPERATING HANDLE.

B. FUSES SHALL BE NON-RENEWABLE. DUAL ELEMENT, TIME DELAY "RK5".

C. ALL DISCONNECT SWITCHES SHALL BE CAPABLE OF BEING LOCKED IN THE OFF POSITION.

D. SERIES RATED EQUIPMENT SHALL NOT BE UTILIZED.

E. WHERE ALUMINUM WIRE IS SUPPLIED BY DOMINION POWER, ENSURE CONNECTORS AND LUGS ARE OF SIMILAR MATERIAL THAT WORKS WITH ALUMINUM WIRE. COORDINATE EXACT REQUIREMENTS WITH DOMINION POWER PRIOR TO INSTALLATION.

2.15 PANELBOARDS

A. PANELBOARDS SHALL BE LABELED WITH A UL SHORT CIRCUIT WITHSTAND RATING.

B. INTERIORS SHALL BE COMPLETELY FACTORY ASSEMBLED WITH BOLT-ON DEVICES.

C. PROVIDE COMPLETE WITH HINGED DOOR COVERING. ALL CIRCUIT BREAKER HANDLES AND SEMI-FLUSH CYLINDER LOCK WITH CATCH ASSEMBLY.

D. MAIN BUS BARS SHALL BE 100% COPPER SIZED IN ACCORDANCE WITH UL STANDARDS LIMIT TEMPERATURE RISE ON ANY CURRENT CARRYING PART TO A MAXIMUM 65°C ABOVE AN AMBIENT OF 40° MAXIMUM.

E. PROVIDE BOLTED GROUND COPPER BAR AND FULL SIZE NEUTRALS, UNLESS OTHERWISE NOTED.

F. ENCLOSURE SHALL BE AT LEAST 20 INCHES WIDE, MADE OF GALVANIZED STEEL. PROVIDE MINIMUM GUTTER SPACE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

G. PROVIDE ENGRAVED NAMEPLATE FOR EACH PANEL SECTION.

H. SURFACES OF THE TRIM ASSEMBLY SHALL BE PROPERLY CLEANED, PRIMED, AND A FINISH COAT OF GRAY ANSI 61 PAINT APPLIED.

I. SERIES RATED EQUIPMENT SHALL NOT BE UTILIZED.

J. SERVICE ENTRANCE EQUIPMENT: SUITABLE FOR USE WITH SERVICE EQUIPMENT. COMPLY WITH UL 869A.

PART 3 - EXECUTION

3.1 MATERIALS AND WORKMANSHIP

A. WORK SHALL BE EXECUTED IN WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR, AND MECHANICAL APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEADROOM AT ALL TIMES. DO NOT RUN PIPES AND DUCTS EXPOSED UNLESS SHOWN EXPOSED ON DRAWINGS. MATERIAL AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDED BEST PRACTICE SO THAT COMPLETED INSTALLATION SHALL OPERATE SAFELY AND EFFICIENTLY.

3.2 CONTINUITY OF SERVICES

A. DO NOT INTERRUPT EXISTING SERVICES WITHOUT OWNER'S AND ARCHITECT'S APPROVALS.

3.3 TESTING, INSPECTION, AND CLEANING

A. TEST WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE FIXTURES ARE CONNECTED; DEMONSTRATE INSULATION RESISTANCE BY MEGGER TEST AS REQUIRED. INSULATION RESISTANCE BETWEEN CONDUCTORS AND GROUNDS FOR SECONDARY DISTRIBUTIONS SYSTEMS SHALL MEET NEC REQUIREMENTS.

B. TEST LIGHTING FIXTURES WITH SPECIFIED LAMPS IN PLACE FOR 10 HOURS; CHECK FIXTURES IN SECTIONS. DO NOT OPERATE LAMPS OTHER THAN FOR TESTING BEFORE FINAL INSPECTION BY ARCHITECT. REPLACE LAMPS THAT FAIL WITHIN 90 DAYS AFTER ACCEPTANCE BY ARCHITECT WITHIN CONTRACT PRICE.

C. FAILURE OR DEFECTS IN WORKMANSHIP OR MATERIALS REVEALED BY TESTS OR INSPECTION SHALL BE CORRECTED PROMPTLY AND RETESTED. REPLACE DEFECTIVE MATERIAL.

D. CLEAN PANELS AND OTHER EQUIPMENT. PANELBOARD INTERIORS SHALL BE CLEANED AND VACUUMED. EQUIPMENT WITH DAMAGE TO PAINTED FINISH SHALL BE REPAIRED TO ARCHITECT'S SATISFACTION.

E. EQUIPMENT
1. AFTER COMPLETION OF PROJECT, CLEAN THE EXTERIOR SURFACE OF EQUIPMENT INCLUDED IN THIS SECTION, INCLUDING CONCRETE RESIDUE.

F. ELECTRICAL AND MECHANICAL CLOSETS SHALL BE CLEANED AND VACUUMED.

3.4 NAMEPLATES

A. PROVIDE NAMEPLATES IN OR ON PANELBOARDS, JUNCTION BOXES AND CABINETS, AND FOR SPECIAL PURPOSE SWITCHES OR OTHER CONTROLS FURNISHED OR INSTALLED UNDER THIS SECTION. NAMEPLATES SHALL DESIGNATE EQUIPMENT CONTROLLED AND FUNCTION.

B. NAMEPLATES SHALL BE LAMINATED BLACK BAKELITE WITH 1/4" HIGH WHITE RECESSED LETTERS. NAMEPLATES SHALL BE SECURELY ATTACHED TO THE EQUIPMENT WITH GALVANIZED SCREWS. ADHESIVES OR CEMENTS SHALL NOT BE USED.

C. LABEL RECEPTACLES AND SWITCHES WITH PANEL AND CIRCUIT NUMBER.

D. LABEL PANELBOARDS WITH ARC FLASH LABELS IN ACCORDANCE WITH NFPA ARTICLE 70 (NEC) 110.16 AND NFPA ARTICLE 70E.

E. LABEL DISCONNECT SWITCHES WITH ARC FLASH LABELS IN ACCORDANCE WITH NFPA ARTICLE 70 (NEC) 110.16 AND NFPA ARTICLE 70E.

3.5 WIRING METHODS

A. INSTALL WIRE AND CABLE IN APPROVED RACEWAYS AS SPECIFIED AND AS APPROVED BY AUTHORITIES THAT HAVE JURISDICTION. SURFACE METAL RACEWAYS SHALL NOT BE USED UNLESS EXPLICITLY SPECIFIED AND SHOWN ON DRAWINGS. DO NOT USE SURFACE RACEWAYS ON FLOOR. DO NOT USE ARMORED CABLE EXCEPT AS APPROVED BY LOCAL CODE FOR LIGHTING AND RECEPTACLE CIRCUITS IN SUSPENDED CEILINGS AND STUD-WALL PARTITIONS.

B. WIRE FROM POINT OF SERVICE CONNECTION TO RECEPTACLES, LIGHTING FIXTURES, DEVICES EQUIPMENT, OUTLETS FOR FUTURE EXTENSION, AND OTHER ELECTRICAL APPARATUS AS SHOWN ON DRAWINGS. PROVIDE SLACK WIRE FOR CONNECTIONS. TAPE ENDS OF WIRES AND PROVIDE BLANK COVERS FOR OUTLET BOXES DESIGNATED FOR FUTURE USE.

3.5 WIRING METHODS (CON'T)

C. FOLLOW HOMERUN CIRCUIT NUMBERS SHOWN ON DRAWINGS TO CONNECT CIRCUITS TO PANELBOARDS. WHERE HOMERUN CIRCUIT NUMBERS ARE NOT SHOWN ON DRAWINGS, DIVIDE SIMILAR TYPES OF CONNECTED LOADS AMONG PHASE BUSES SO THAT CURRENTS ARE APPROXIMATELY EQUAL IN NORMAL USAGE. CONNECT EACH BRANCH CIRCUIT HOMERUN WITH TWO OR MORE CIRCUITS AND COMMON NEUTRAL TO CIRCUIT BREAKER OR SWITCH IN THREE-WIRE OR FOUR-WIRE BRANCH CIRCUIT PANELBOARD SO THAT NO TWO CIRCUITS ARE FED FROM SAME BUS. WHERE PANELBOARD CABINETS ARE RECESSED, PROVIDE CONDUITS WITH SUFFICIENT CAPACITY FOR FUTURE CONDUCTORS FOR SPARE BRANCH CIRCUIT, CIRCUIT PROTECTION DEVICES, AND SPACES IN PANELBOARD; STUB UP CONCEALED TO JUNCTION JUNCTION BOX. PROVIDE EXTENSIONS ABOVE CEILING.

D. ELECTRICAL METALLIC TUBING MAY BE USED GENERALLY, IF APPROVED BY LOCAL CODES, FOR LIGHTING FIXTURES AND RECEPTACLE CIRCUITS, TELEPHONE, INTER-COMMUNICATIONS, SIGNAL AND INSTRUMENTATION CIRCUITS, AND FOR CONTROL CIRCUITS. EMT MAY BE USED GENERALLY, IF APPROVED BY AUTHORITIES, IN MASONRY WALLS, ABOVE HUNG CEILINGS, IN EQUIPMENT ROOMS, IN MECHANICAL AND ELECTRICAL CHASES AND CLOSETS, IN EXPOSED LOCATIONS ALONG CEILINGS OR WALLS ABOVE NORMAL TRAFFIC LEVEL AND WHERE NOT SUBJECT TO ACCIDENTAL DAMAGE OR ABUSE.

E. INSTALL CONNECTORS AND COUPLINGS AS RECOMMENDED BY MANUFACTURERS. COMPRESSION FITTINGS SHALL NOT BE USED WITH RGS.

F. PROVIDE FLEXIBLE CONDUITS FOR CONNECTIONS TO ELECTRICAL EQUIPMENT AND TO EQUIPMENT FURNISHED UNDER DIVISIONS 14 AND 15 THAT ARE SUBJECT TO MOVEMENT, VIBRATION, OR MISALIGNMENT; WHERE AVAILABLE SPACE DICTATES; AND WHERE NOISE TRANSMISSION MUST BE ELIMINATED OR REDUCED. FLEXIBLE CONDUIT SHALL BE LIQUID-TIGHT UNDER THE FOLOOWING CONDITIONS:
1. MOISTURE OR HUMIDITY-LADEN ATMOSPHERES
2. CORROSIVE ATMOSPHERES
3. WHERE WASH-DOWN OPERATIONS ARE POSSIBLE
4. WHERE SEEPAGE OR DRIPPING OF OIL, GREASE, OR WATER IS POSSIBLE.

G. RUN CONCEALED CONDUIT IN AS DIRECT LINES AS POSSIBLE WITH MINIMUM NUMBER OF BENDS OR LONGEST POSSIBLE RADIUS. RUN EXPOSED CONDUIT AND EMT PARALLEL TO OR AT RIGHT ANGLES TO BUILDING LINES. ENDS SHALL BE FREE FROM DENTS OR FLATTENING.

H. CONDUIT AND EMT RUNS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS FROM SERVICE ENTRANCE TO OUTLETS. CONDUIT SHALL ENTER AND BE SECURED TO CABINET, JUNCTION BOX, PULL BOX, OR OUTLET BOX WITH LOCKNUT OUTSIDE AND BUSHING INSIDE, OR WITH LIQUID-TIGHT, THREADED, SELF-LOCKING, COLD-WELD WEDGE ADAPTER. PROVIDE ADDITIONAL WRENCH-TIGHTEN LOCKNUT FOR EMT OR FLEXIBLE CONDUIT WHERE CIRCUIT VOLTAGE EXCEEDS 250V. LOCKNUTS AND BUSHINGS OR SELF-LOCKING ADAPTERS WILL NOT BE REQUIRED WHERE CONDUITS ARE SCREWED INTO TAPPED CONNECTIONS. VERTICLE CONDUIT RUNS THAT TERMINATE IN BOTTOMS OF WALL BOXES OR CABINETS SHALL BE PROTECTED FROM ENTRANCE OF FOREIGN MATERIAL BEFORE INSTALLATION OF CONDUCTORS.

I. SIZE CONDUIT AND FLEXIBLE METALLIC CONDUIT AS REQUIRED BY NEC EXCEPT AS SPECIFIED OR SHOWN ON DRAWINGS OTHERWISE.

J. CHECK RACEWAY SIZES TO DETERMINE THAT GREEN EQUIPMENT GROUND CONDUCTOR FITS IN SAME RACEWAY WITH PHASE AND NEUTRAL CONDUCTORS TO MEET NEC PERCENTAGE OF FILL REQUIREMENTS. INCREASE DUCT, CONDUIT, TUBING, AND RACEWAY SIZES SHOWN OR SPECIFIED AS REQUIRED TO ACCOMMODATE CONDUCTORS.

K. UNLESS SPECIFIED OR SHOWN ON DRAWINGS OTHERWISE, INSTALL CONDUIT AND EMT CONCEALED. UNLESS SPECIFIED OR SHOWN OTHERWISE, CONDUIT MAY BE RUN EXPOSED ON UNFINISHED WALLS AND UNFURRED BASEMENT CEILINGS AND IN UNFINISHED PENTHOUSE, ATTICS, AND ROOF SPACES. PROVIDE STAND-OFF CLIPS FOR CONDUITS ON EXTERIOR MASONRY WALLS.

L. INSTALL CONDUIT SYSTEMS COMPLETE BEFORE DRAWING IN CONDUCTORS. BLOW THROUGH AND SWAB AFTER PLASTER IS FINISHED AND DRY, AND BEFORE CONDUCTORS ARE INSTALLED.

M. ATTACH PULL ROPES TO CONDUCTORS WITH BASKET-WEAVE GRIPS ON PULLING EYES. PULL CABLES THAT SHARE CONDUIT AT THE SAME TIME.

N. PROVIDE INSERTS, HANGERS, ANCHORS AND STEEL SUPPORTS AS NECESSARY.

O. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE ADEQUATELY SIZED TO ACCOMMODATE VOLTAGE DROP.

P. METAL CLAD (MC) CABLING MAY NOT BE USED.

3.6 INSTALLATION OF LIGHT FIXTURES

A. VERIFY CEILING CONSTRUCTIONS, AND PROVIDE FIXTURES, BALLASTS, FRAMES, RINGS, AND OTHER ACCESSORIES SUITABLE FOR CONSTRUCTION ENCOUNTERED.

B. COORDINATE INSTALLATION OF FIXTURES WITH INSTALLATION OF CEILING MATERIALS AND SUSPENSION SYSTEMS.

C. COORDINATE THE INSTALLATION OF THE LIGHT FIXTURES WITH OTHER TRADES TO AVOID DAMAGE TO FIXTURES.

D. INVESTIGATE LIGHTING FIXTURE LOCATIONS AND SUPPORTS TO ENSURE THAT NO INTERFERENCES EXISTS WITH HANGERS, DUCTS, SPRINKLERS, PIPES, AND OTHER EQUIPMENT.

E. PROVIDE PLASTER FRAMES FOR FIXTURES RECESSED IN GYPSUM BOARD OR PLASTER CEILING.

F. DO NOT SUSPEND OR SUPPORT LIGHTING FIXTURES OR SAFETY CHAINS FROM HUNG CEILING, CONDUIT, OR DUCT. SUPPORT FIXTURES FROM STRUCTURAL MEMBERS ONLY.

G. CEILING MOUNTED FIXTURES SHALL BE SUPPORTED INDEPENDENT OF HUNG CEILING WITH BOW CHAIN.

H. PROVIDE UNISTRUT BELOW DUCTS WHERE FIXTURE LOCATIONS COINCIDE WITH DUCT RUNS. PROVIDE THREADED RODS TO SUPPORT UNISTRUT.

I. PATCH SPRAY-ON FIREPROOFING DAMAGED DURING INSTALLATION.

J. SUPPORT SURFACE-MOUNTED LUMINAIRES AT LEAST TWO CONCEALED POINTS TO PREVENT ROTATION.

K. MOUNTING HEIGHT OF SUSPENDED OR WALL-MOUNTED LUMINAIRES SHALL BE SHOWN ON THE BUILDING MANUFACTURER DRAWINGS.

3.7 MOTORS, CONNECTIONS, AND CONTROLS

A. MOTORS WILL BE FURNISHED UNDER OTHER SECTIONS. STARTERS WILL BE FURNISHED UNDER OTHER SECTIONS AND SHALL BE INSTALLED UNDER THIS SECTION.

B. PROVIDE AND CIRCUIT MOTOR DISCONNECT SWITCHES AND REMOTE CONTROL STATIONS, EXCEPT AS SPECIFIED OR INDICATED ON DRAWINGS. CIRCUIT ELECTRICALLY ACTUATED OR ACTUATING CONTROLS PROVIDED UNDER OTHER SECTIONS, AND AS SHOWN ON DRAWINGS.

C. MOTORS 1/2 HP AND LARGER SHALL BE AS SCHEDULED; MOTORS LESS THAN 1/2 HP SHALL BE 120 V, SINGLE-PHASE, 60Hz, UNLESS SHOWN OTHERWISE ON DRAWINGS.

D. MOUNT MOTOR CONTROLLERS NOT IN MOTOR CONTROL CENTERS ON NEW 3/4" EXTERIOR GRADE POLYWOOD MOUNTING BOARD FINISHED TO MATCH STARTER ENCLOSURES. MOUNT BOARDS 60" ABOVE FINISHED FLOOR ON SOLID WALLS OR COLUMNS IN SPACES NOT NORMALLY OCCUPIED. OBTAIN APPROVAL OR MOTOR CONTROLLER LOCATIONS FROM BUILDING MANUFACTURER.

E. CHECK ELECTRICAL CONNECTIONS AND SIZING OF MOTOR CIRCUIT PROTECTION AND PREVENT DAMAGE TO MOTORS AND EQUIPMENT FROM INCORRECT DIRECTION OF ROTATION.

F. CONSULT DRAWINGS AND SPECIFICATIONS AND SHOP DRAWINGS FOR VERIFICATIONS OF SIZE, SPEED, AND OPERATION FOR MOTORS FURNISHED UNDER THIS SECTION AND OTHER SECTIONS.

G. OBTAIN NECESSARY CONTROL WIRING AND INTERLOCKING DIAGRAMS FROM EQUIPMENT SUPPLIERS FOR INSTALLATION UNDER THIS SECTION AND WIRE EQUIPMENT FOR PROPER SEQUENCE OF OPERATION.

H. FINAL CONNECTION TO MOTORS SHALL BE MADE WITH FLEXIBLE CONDUIT (AT LEAST 16" LONG) WITH GREEN GROUND WIRE INSTALLED.

I. DETERMINE APPROPRIATE ARC FLASH LABELS FOR DISCONNECT SWITCHES IN ACCORDANCE WITH NFPA ARTICE 70 (NEC) 110.16 AND NFPA ARTICLE 70E.

3.8 GROUNDING

A. PER CODE: PROVIDE JUMPERS OR BONDING CONDUCTORS WHERE RACEWAY IS ELECTRICALLY DISCONTINUOUS. PROVIDE COPPER GROUND CONDUCTOR MINIMUM #12 AWG IN ALL CIRCUITS AND FEEDERS. EACH BRANCH CIRCUIT OR MULTI-WIRE CIRCUIT TO HAVE SEPARATE GROUND CONDUCTOR.

B. PROVIDE GROUND BUS AS INDICATED ON DRAWINGS.

C. EXOTHERMICALLY WELD GROUND ROD CONNECTIONS STRICTLY IN ACCORDANCE WITH THE WELD MANUFACTURER'S WRITTEN RECOMMENDATIONS.

D. DRIVE GROUND ROD INTO EARTH NOT LESS THAN TEN FEET.

E. MAXIMUM ALLOWED RESISTANCE OF A GROUND ROD SHALL BE 25 OHMS. IF THIS RESISTANCE CANNOT BE OBTAINED, INSTALL ADDITIONAL GROUND RODS WITH A MINIMUM SPACING OF 10 FEET UNTIL THE REQUIRED RESISTANCE IS MET.

3.9 VOLTAGE CHECK:

A. AT COMPLETION OF JOB AND AFTER FULL BUILDING OCCUPANCY. CHECK VOLTAGE AT SEVERAL POINTS OF UTILIZATION ON THE SYSTEM WHICH HAS BEEN INSTALLED UNDER THIS CONTRACT. DURING THE TEST, ENERGIZE ALL LOADS INSTALLED.

3.10 PANELBOARDS:

A. PROVIDE TYPE WRITTEN INDEX SHOWING CIRCUIT CHANGES UNDER THIS CONTRACT. PLACE DIRECTORY IN CLEAR PLASTIC SLEEVE AND SECURELY ATTACH TO THE INSIDE OF THE PANELBOARD DOOR.

B. PROVIDE TERMINAL STRIPS IN EXISTING PANELS TO ACCOMMODATE THE INCREASE IN NEUTRAL AND GROUND WIRES.

C. PROVIDE CIRCUIT BREAKERS OF TYPE AND SHORT CIRCUIT RATING TO MATCH REQUIRED RATING. PROVIDE "HACR" RATED CIRCUIT BREAKERS FOR HVAC EQUIPMENT.

D. DETERMINE APPROPRIATE ARC FLASH LABELS FOR PANELBOARDS IN ACCORDANCE WITH NFPA ARTICLE 70 (NEC) 110.16 AND NFPA ARTICLE 70E.

E. PROVIDE ARC FLASH ANALYSIS FOR NEW EQUIPMENT IN THE ELECTRICAL DISTRIBUTION SYSTEM AS PER NFPA 70 AND NFPA 70E.

3.11 FIREPROOFING:

A. MAINTAIN THE INTEGRITY OF FIRE, SMOKE AND VAPOR BARRIERS.

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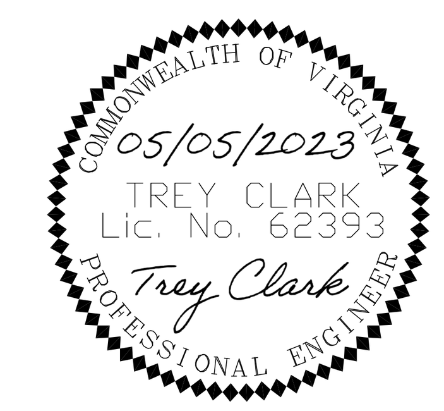


SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

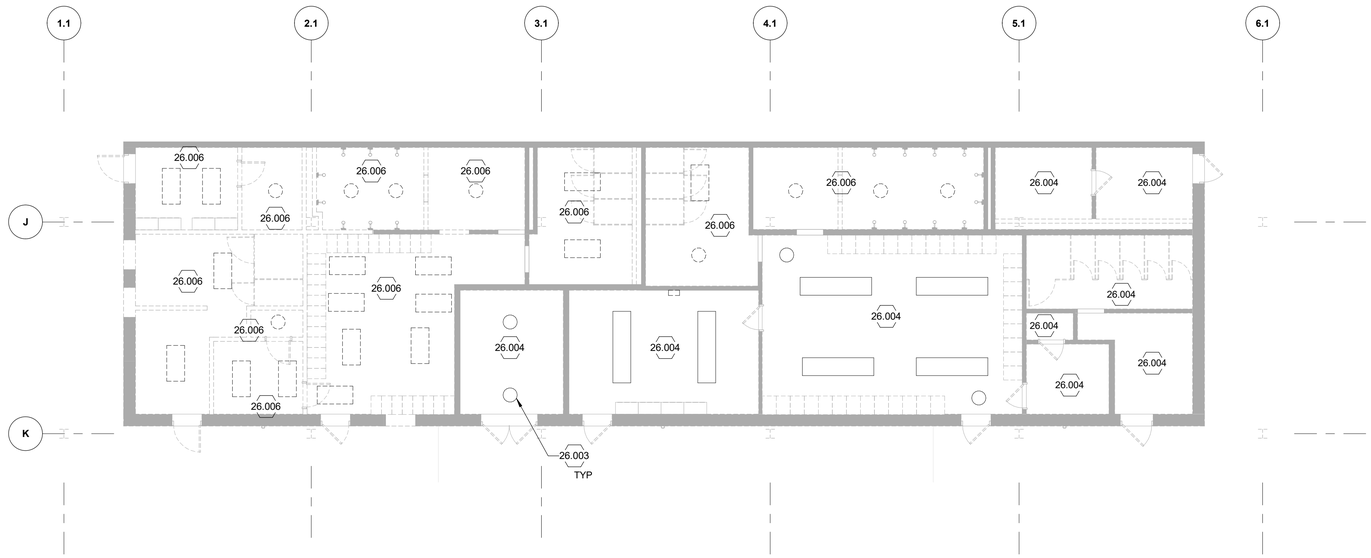
SHEET TITLE

ELECTRICAL SPECIFICATIONS

SHEET NUMBER

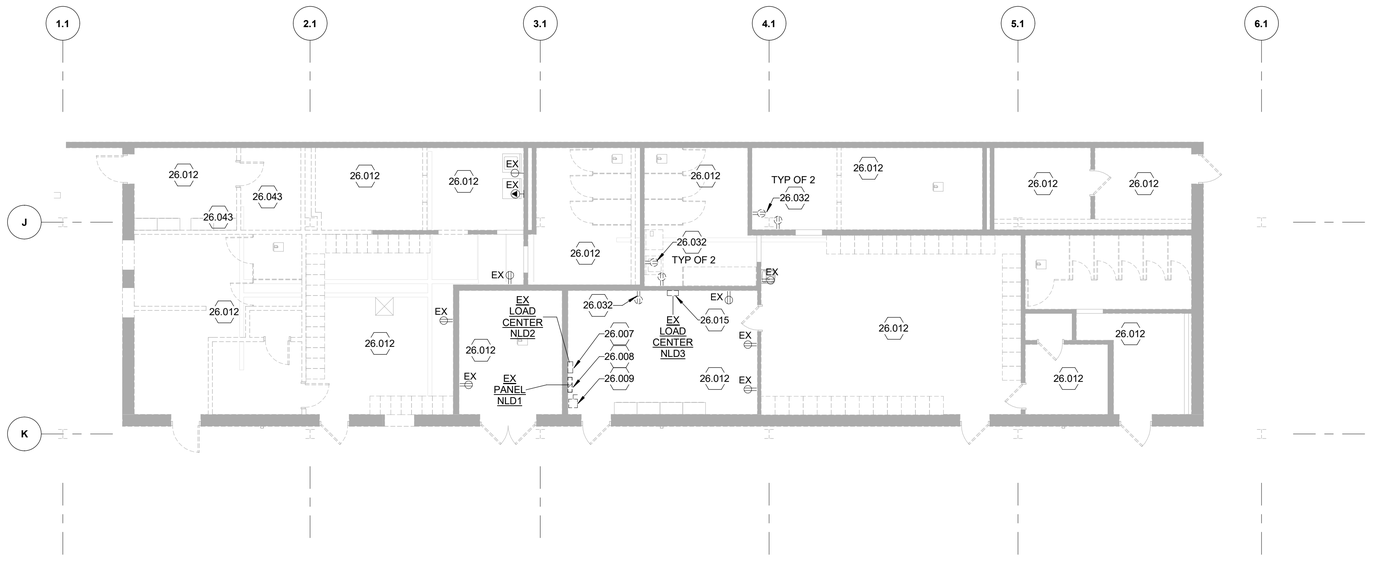
E-002

READY FOR CONSTRUCTION



DEMO LIGHTING PLAN - EXISTING BUILDING

1/8" = 1'-0"



DEMO POWER PLAN - EXISTING BUILDING

1/8" = 1'-0"

GENERAL NOTES THIS SHEET

A. REFER TO SHEET G-002 FOR PROJECT ABBREVIATIONS.
B. REFER TO SHEET E-001 LEGEND AND GENERAL NOTES.
C. LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN. HEAVY LINEWEIGHT INDICATES NEW WORK.
D. REFER TO ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK AND COORDINATE EXTENTS WITH RESPECTIVE TRADES. EQUIPMENT OF OTHER TRADES SHOWN FOR REFERENCE IN LIGHT LINEWEIGHT FOR CLARITY.

SHEET KEYNOTES:

26.003	EXISTING FIXTURE LOCATIONS ARE APPROXIMATE.
26.004	LIGHT FIXTURES IN THIS SPACE TO REMAIN UNLESS OTHERWISE NOTED.
26.006	DEMOLISH LIGHTING FIXTURES, CONTROLS, AND ASSOCIATED CIRCUITRY IN THIS SPACE.
26.007	DEMOLISH EXISTING CIRCUIT LOAD CENTER NLD2. RETAIN AND PROTECT EXISTING BRANCH CIRCUITRY AND CONDUIT WHICH IS TO BE RELOCATED TO NEW PANEL P1 DURING CONSTRUCTION.
26.008	DEMOLISH EXISTING 200A MAIN PANELBOARD NLD1. RETAIN AND PROTECT EXISTING BRANCH CIRCUITRY AND CONDUIT WHICH IS TO BE RELOCATED TO NEW PANEL P1 DURING CONSTRUCTION. EXISTING PANEL NLD1 CIRCUITS 7,9,AND 11 TO BE DEMOLISHED COMPLETELY.
26.009	DEMOLISH EXISTING 200A FUSED DISCONNECT SWITCH AND ASSOCIATED CIRCUITRY. RETAIN AND PROTECT GROUND CONDUCTOR WITHIN DISCONNECT FOR REUSE DURING CONSTRUCTION.
26.012	EXISTING DEVICES IN THIS SPACE TO REMAIN UNLESS OTHERWISE NOTED.
26.015	DEMOLISH EXISTING 8-SPACE CIRCUIT LOAD CENTER NLD3. RETAIN AND PROTECT EXISTING CIRCUITRY AND CONDUIT WHICH IS TO BE RELOCATED TO NEW PANEL P1 DURING CONSTRUCTION.
26.032	REMOVE AND DEMOLISH EXISTING DEVICE AND ASSOCIATED CIRCUITRY.
26.043	CONTRACTOR TO DEMOLISH CONDUIT AND ASSOCIATED CIRCUITRY WITH TWO EXHAUST FANS THAT ARE BEING DEMOLISHED. LOCATION IS APPROXIMATE.

EXIST TN

PN

1/8"=1'-0" 8' 4' 0 8' 16'

GRAPHIC SCALES

READY FOR CONSTRUCTION

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PROJECT

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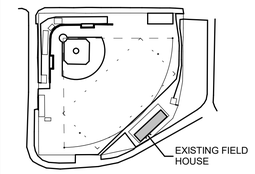
REGISTRATION

COMMONWEALTH OF VIRGINIA
05/05/2023
TREY CLARK
Lic. No. 62393
Trey Clark
PROFESSIONAL ENGINEER

KEY PLAN



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I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

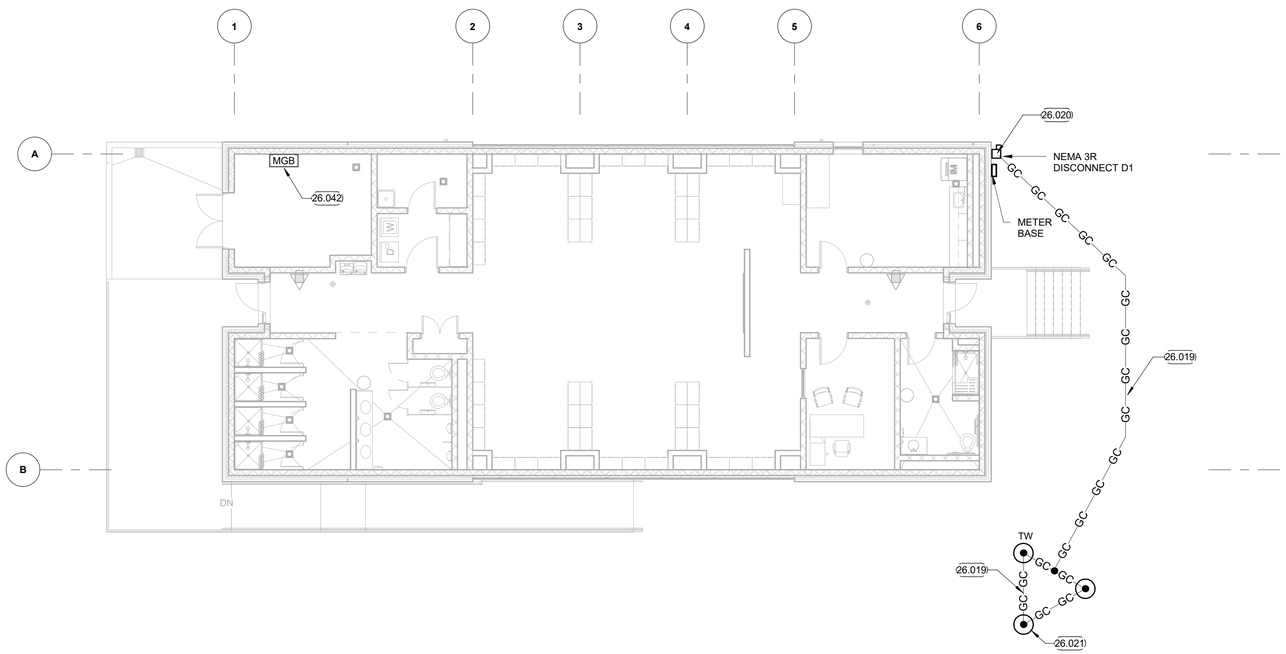
60699711

SHEET TITLE

ELECTRICAL DEMOLITION PLAN - EXISTING FIELD HOUSE

SHEET NUMBER

ED100



GROUNDING PLAN - NEW FIELD HOUSE

1/8" = 1'-0"

GENERAL NOTES THIS SHEET

A. REFER TO SHEET G-002 FOR PROJECT ABBREVIATIONS.
B. REFER TO SHEET E-001 LEGEND AND GENERAL NOTES.
C. LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN. HEAVY LINEWEIGHT INDICATES NEW WORK.
D. REFER TO ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK AND COORDINATE EXTENTS WITH RESPECTIVE TRADES. EQUIPMENT OF OTHER TRADES SHOWN FOR REFERENCE IN LIGHT LINEWEIGHT FOR CLARITY.

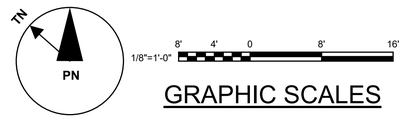
SHEET KEYNOTES:

26.019 PROVIDE 4/0 AWG BARE COPPER CONDUCTOR GROUND WIRE. GROUND WIRE SHALL BE BURIED NO LESS THAN 2.5' BELOW FINISHED GRADE.

26.020 BOND THE NEUTRAL AND GROUND WITHIN DISCONNECT. PROVIDE 4/0 AWG BARE COPPER CONDUCTOR GROUND WIRE FROM DISCONNECT GROUND BUSBAR TO GROUNDING ELECTRODE TO CREATE A SINGLE POINT COMMON GROUND CONNECTION. GROUNDING SHALL BE IN ACCORDANCE WITH NEC.

26.021 SPACE GROUND RODS 8' APART.

26.042 CONNECT ELECTRICAL MAIN GROUND BAR TO DISCONNECT D1 GROUND BUSBAR AND TO MAIN PANELBOARD BUSBAR.



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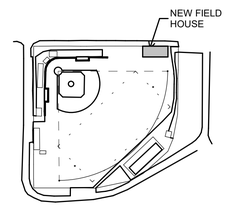

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PROJECT NUMBER

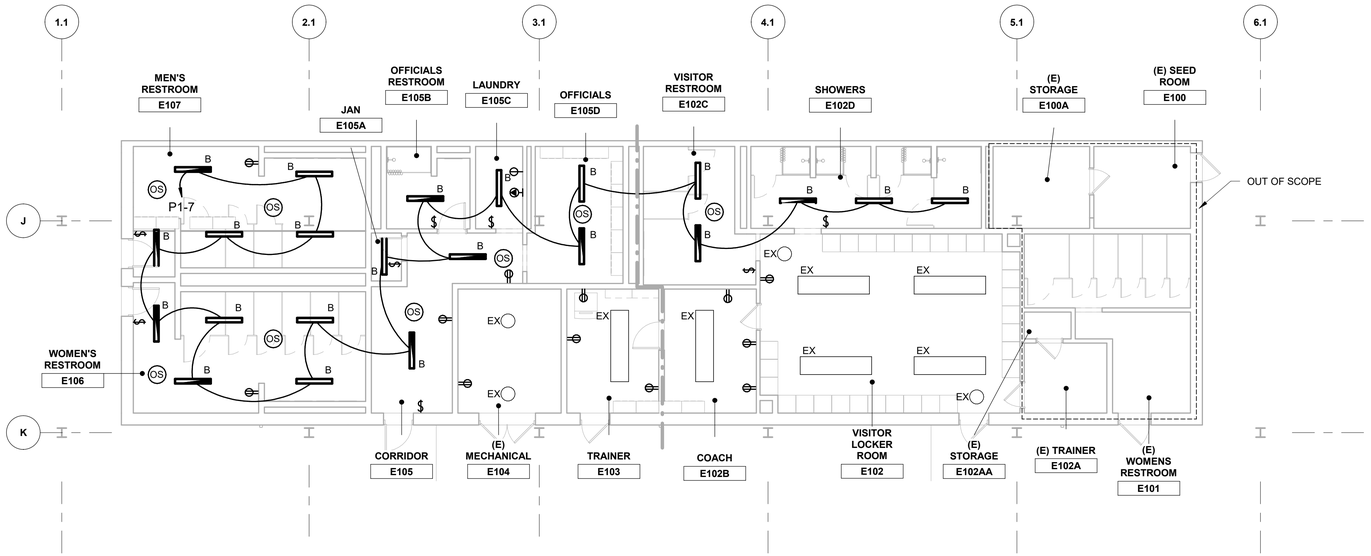
60699711

SHEET TITLE

GROUNDING PLAN - NEW FIELD HOUSE

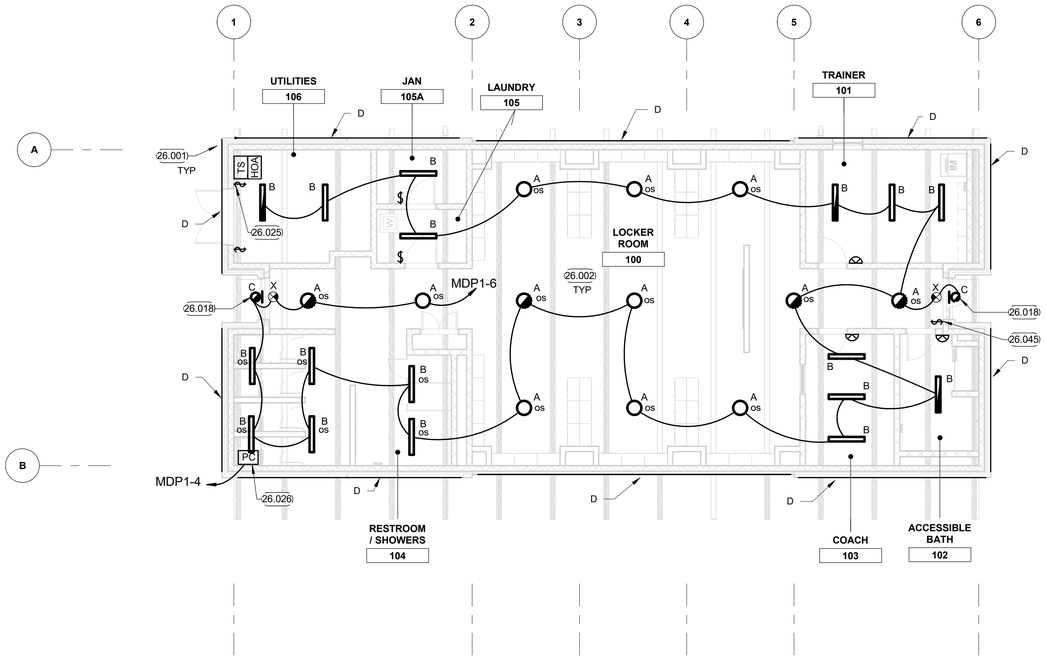
SHEET NUMBER

EG100



LIGHTING PLAN - EXISTING BUILDING

1/8" = 1'-0"



LIGHTING PLAN - NEW FIELD HOUSE

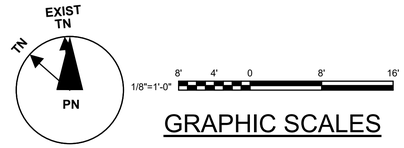
1/8" = 1'-0"

GENERAL NOTES - LIGHTING

1. REFER TO SHEET E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND ADDITIONAL ELECTRICAL GENERAL NOTES. FOR TYPICAL LIGHTING CONTROL SEQUENCE OF OPERATIONS, SEE DETAILS 1-3 ON SHEET E-502.
2. ADJACENT SWITCHES SHALL BE GANGED UNDER ONE COVER PLATE. ADJACENT DIMMERS SHALL BE GANGED WITH INDIVIDUAL COVER PLATES BUT IMMEDIATELY ADJACENT TO EACH OTHER. DO NOT MODIFY DIMMER IN ANY MANNER.
3. COLOR OF COVERPLATES ON MILLWORK, FABRIC, GLASS, STAINLESS AND OTHER SPECIAL FINISH MAY BE DIFFERENT THAN WHITE AND WILL BE SELECTED BY ARCHITECT PRIOR TO INSTALLATION BY CONTRACTOR.
4. WHERE EMERGENCY FIXTURES ARE PROVIDED IN A SPACE, THEY SHALL BE CONTROLLED SIMILARLY BY THE CONTROL DEVICES AS THE NORMAL FIXTURES. EMERGENCY FIXTURES IN EGRESS PATH SHALL TURN ON TO FULL OUTPUT UPON LOSS OF POWER.

SHEET KEYNOTES:

26.001	INSTALL LED TAPELIGHT IN COVE ALONG EXTERIOR WALLS. SEE SHEET EL500 FOR FIXTURE DETAILS. SEE ARCHITECTURAL SET FOR COVE MOUNTING DETAILS. ALL TYPE D LIGHT FIXTURES TO BE CONNECTED TO CIRCUIT MDP1-4 VIA PHOTOCELL, TIME SWITCH, AND COUNTDOWN TIMER. SEE DETAIL B5 ON SHEET E-501.
26.002	PENDANT MOUNT ALL FIXTURES IN THIS BUILDING AT 9' AFF UON.
26.018	MOUNT LIGHT FIXTURE 12' 7" AFF.
26.025	COUNTDOWN OFF TIMER FOR EXTERIOR FACADE LIGHTING TYPE D. CONTRACTOR TO LABEL TIMER "FACADE LIGHTING".
26.026	PHOTOCELL SHOWN HERE FOR CIRCUIT DESIGNATION. PHOTOCELL SHALL BE ADJUSTABLE AND MOUNTED ON HIGH SIDE OF ROOF. PHOTOCELL TO CONTROL ALL EXTERIOR LIGHTING TYPE D.
26.045	LIGHT SWICTH TO MANUALLY OVERRIDE FIXTURES IN LOCKER ROOM 100.



GRAPHIC SCALES

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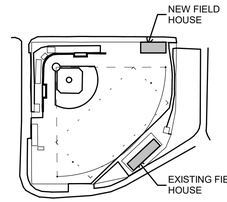

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I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

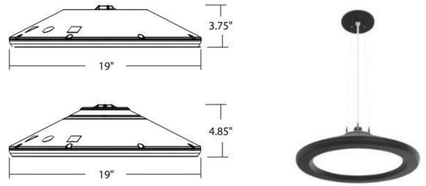
SHEET TITLE

LIGHTING PLANS

SHEET NUMBER

EL100

READY FOR CONSTRUCTION



LUMINAIRE REQUIREMENTS:

1. HOUSING: DIE CAST ALUMINUM
2. FINISH: FINISHED WITH ZINC INFUED SUPER DURABLE TGIC THERMOSET POWDER COAT FINISH, ALUMINUM
3. OPTICS: DIFFUSED LIGHT SOURCE RECESSED INTO THE FIXTURE, PRECISION MOLDED MICRO PRISMATIC ACRYLIC LENSES AND BACK REFLECTORS, UP-LIGHT OPTION
4. LAMP: LED WITH 80 CRI WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
5. DRIVER: 120 VAC, STANDARD
6. CERTIFICATION: CSA CERTIFIED. IP66 RATED
7. ENERGY AND PERFORMANCE: TEMPERATURE - 4000K, LUMENS - 4891LM, EFFICIENCY - 144lm/W, UP-LIGHT 500 LUMENS
8. EMERGENCY: EMERGENCY BATTERY BACKUP WHERE INDICATED
9. BUILT IN OCCUPANCY SENSOR WHERE INDICATED

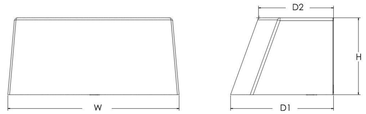
LED CIRCULAR PENDANT 19" **(TYPE-A)**

LUMINAIRE REQUIREMENTS:

1. HOUSING: COLD-GAUGE COLD-ROLLED STEEL
2. FINISH: GALVANIZED WITH WHITE LENS END CAPS
3. OPTICS: FLAT DIFFUSE ACYLIC LENS
4. LAMP: LED WITH 80 CRI WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE
5. DRIVER: 120 VAC, STANDARD
6. CERTIFICATION: CSA CERTIFIED. FOR USE IN DAMP LOCATIONS
7. ENERGY AND PERFORMANCE: TEMPERATURE - 4000K, LUMENS - 4000LM
8. EMERGENCY: EMERGENCY BATTERY BACKUP WHERE INDICATED
9. BUILT IN OCCUPANCY SENSOR WHERE INDICATED

LED LINEAR PENDANT 4' **(TYPE-B)**

Depth (D1):	6.5"
Depth (D2):	4.75"
Height:	5"
Width:	11"
Weight: (without options)	7 lbs



LUMINAIRE REQUIREMENTS:

1. HOUSING: DIE CAST-ALUMINUM
2. FINISH: THERMOSET POWDER COAT FINISH OUTER RING, POLYCARBONATE LED LENS COVER
3. OPTICS: RECESSED LENS FOR GLARE REDUCTION
4. LAMP: LED WITH 80 CRI WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE
5. DRIVER: 120 VAC, STANDARD
6. CERTIFICATION: UL LISTED FOR WET LOCATIONS
7. ENERGY AND PERFORMANCE: TEMPERATURE - 4000K, LUMENS - 2151LM
8. EMERGENCY: EMERGENCY BATTERY BACKUP, CEC COMPLIANT
9. PHOTOCELL: INTEGRAL BUTTON YPE PHOTOCELL FOR DUSK-TO-DAWN OPERATION

LED EXTERIOR WALL MOUNTED **(TYPE-C)**

LUMINAIRE REQUIREMENTS:

1. HOUSING: FLEXIBLE PCB TAPELIGHT
2. OPTICS: 96 HIGH-PERFORMANCE WHITE LEDS
3. LAMP: LED WITH 90CRI WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE
4. DRIVER: 120 VAC, STANDARD
5. CERTIFICATION: IP65 RATED
6. ENERGY AND PERFORMANCE: TEMPERATURE - 4000K, LUMENS - 200LM/FT
7. LOCATE REMOTE DRIVER IN UTILITY ROOM.

LED TAPE LIGHT **(TYPE-D)**

LUMINAIRE REQUIREMENTS:

1. HOUSING: THERMOPLASTIC
2. OPTICS: LEDS MOUNTED ON PRINTED CIRCUIT BOARD
3. LAMP: LED WITH ,90CRI WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE
4. DRIVER: 120 VAC, STANDARD
5. CERTIFICATION: UL DAMP LOCATION LISTED
6. EMERGENCY: INTEGRAL 90 MIN BATTERY BACKUP

LED EXIT SIGN **(TYPE-X)**

LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS	BASIS OF DEISGN MANUFACTURER	BASIS OF DEISGN MODEL NUMBER	DESCRIPTION	LUMENS	VOLTAGE	WATTAGE	MOUNTING	REMARKS
A	LED	LITHONIA LIGHTING	VCVL LED-V4-P2-40K-80CRI-P5W-MVOLT-AC6-UPL1-NLTAIR2 PIR-DNAXD	VCVL - CIRCULAR PENDANT	4891	120V	34W	PENDANT	
B	LED	LITHONIA LIGHTING	CLX-L48-SEF-FDL-MVOLT-40K-80CRI-E10WLCP-CS1W-NLTAIR2 RES7-GALVW	CLX - LINEAR PENDANT	4000	120V	30W	PENDANT	SURFACE MOUNT IN EXISTING BUILDING
C	LED	LITHONIA LIGHTING	ARC1 LED-P2-40K-MVOLT-E4WH-DNAXD	ARC1 LED - OUTDOOR	2151	120V	17W	SURFACE	
D	LED	ACUITY - JUNO	JFX-24V-200LM-100FT-40K-90CRI-WL	JFX - TAPELIGHT	200 / FT	120V	2.3W/FT	SURFACE	
X	LED	LITHONIA LIGHTING	LQM-S-W-3-R-120/277-EL N-M6	EXIT SIGN	--	120V	0.71W	PENDANT	

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PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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REGISTRATION

COMMONWEALTH OF VIRGINIA
05/05/2023
TREY CLARK
Lic. No. 62393
Trey Clark
PROFESSIONAL ENGINEER

SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

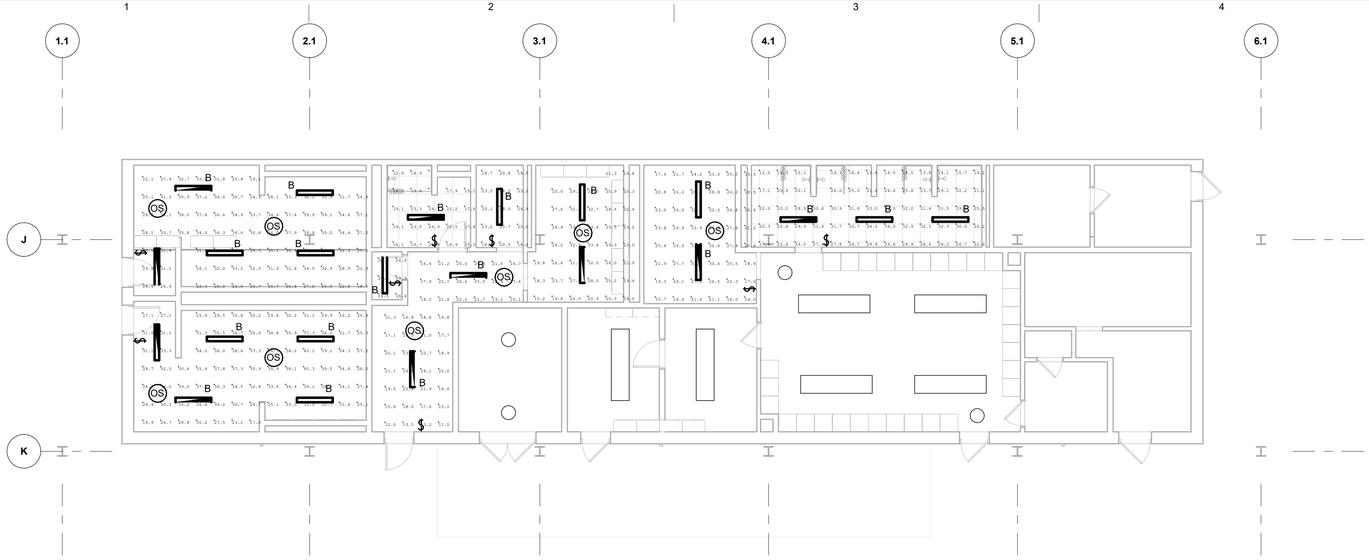
SHEET TITLE

LIGHTING PLATES AND SCHEDULE

SHEET NUMBER

EL500

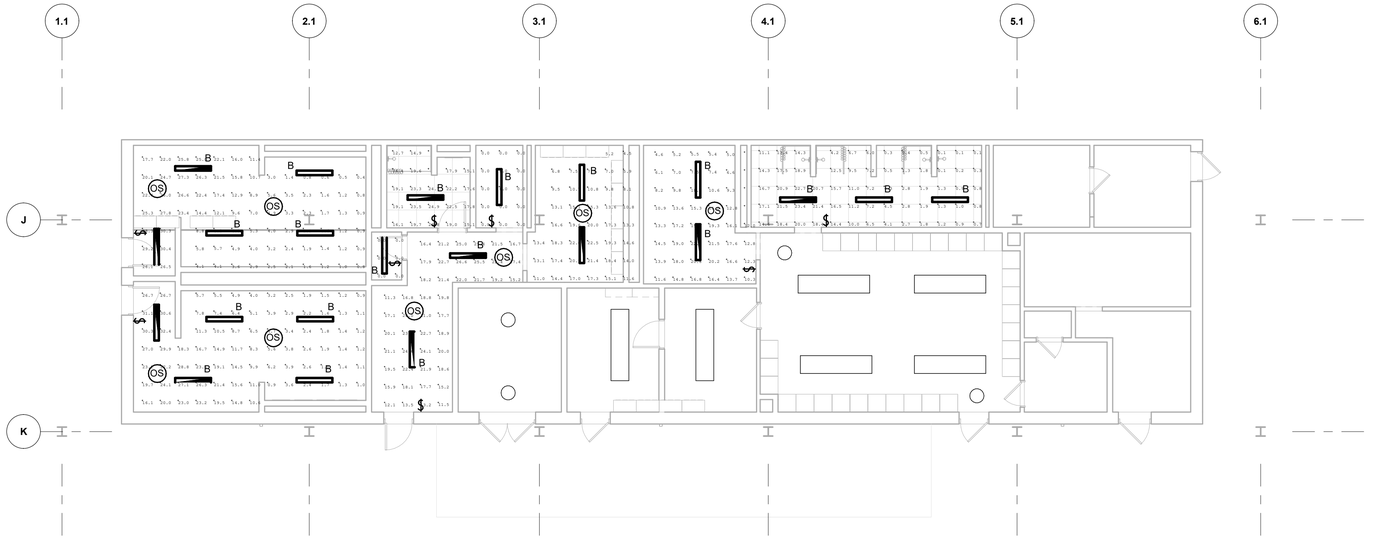
READY FOR CONSTRUCTION



Calculation Summary							
Label	Avg	Min	Avg/Min	WORKPLANE HEIGHT (ft)	CEILING REFLECTANCE	FLOOR REFLECTANCE	WALL REFLECTANCE
CORRIDOR E105	19.41	11.3	1.72	0	80	50	20
JAN E105A	27.43	26.4	1.04	0	80	50	20
LAUNDRY E105C	22.52	18.2	1.24	0	80	50	20
MENS RESTROOM E107	31.56	18.0	1.75	0	80	50	20
OFFICIALS E105D	25.44	15.2	1.67	0	80	50	20
OFFICIALS RESTROOM E105B	18.83	11.9	1.58	0	80	50	20
SHOWERS E102D	24.90	12.0	2.08	0	80	50	20
VISITORS RESTROOM E102C	24.45	14.0	1.75	0	80	50	20
WOMENS RESTROOM E106	32.34	17.0	1.90	0	80	50	20

LIGHTING PLAN - EXISTING BUILDING CALCULATIONS

1/8" = 1'-0"



Calculation Summary							
Label	Avg	Min	Avg/Min	WORKPLANE HEIGHT (ft)	CEILING REFLECTANCE	FLOOR REFLECTANCE	WALL REFLECTANCE
CORRIDOR E105	19.42	11.3	1.72	0	80	50	20
JAN E105A	0.00	0.0	N.A.	0	80	50	20
LAUNDRY E105C	0.00	0.0	N.A.	0	80	50	20
MENS RESTROOM E107	10.33	0.4	25.83	0	80	50	20
OFFICIALS E105D	13.16	4.5	2.92	0	80	50	20
OFFICIALS RESTROOM E105B	18.86	12.0	1.57	0	80	50	20
SHOWERS E102D	8.13	0.1	81.30	0	80	50	20
VISITORS RESTROOM E102C	12.38	4.2	2.95	0	80	50	20
WOMENS RESTROOM E106	10.86	0.9	12.07	0	80	50	20

LIGHTING PLAN - EXISTING BUILDING EMERGENCY CALCULATIONS

1/8" = 1'-0"

GENERAL NOTES - LIGHTING

1. REFER TO SHEET E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND ADDITIONAL ELECTRICAL GENERAL NOTES. FOR TYPICAL LIGHTING CONTROL SEQUENCE OF OPERATIONS, SEE DETAILS 1-3 ON SHEET E-502.
2. ADJACENT SWITCHES SHALL BE GANGED UNDER ONE COVER PLATE. ADJACENT DIMMERS SHALL BE GANGED WITH INDIVIDUAL COVER PLATES BUT IMMEDIATELY ADJACENT TO EACH OTHER. DO NOT MODIFY DIMMER IN ANY MANNER.
3. COLOR OF COVERPLATES ON MILLWORK, FABRIC, GLASS, STAINLESS AND OTHER SPECIAL FINISH MAY BE DIFFERENT THAN WHITE AND WILL BE SELECTED BY ARCHITECT PRIOR TO INSTALLATION BY CONTRACTOR.
4. WHERE EMERGENCY FIXTURES ARE PROVIDED IN A SPACE, THEY SHALL BE CONTROLLED SIMILARLY BY THE CONTROL DEVICES AS THE NORMAL FIXTURES. EMERGENCY FIXTURES IN EGRESS PATH SHALL TURN ON TO FULL OUTPUT UPON LOSS OF POWER.

EXIST TN

PN

1/8"=1'-0" 8' 4' 0 8' 16'

GRAPHIC SCALES

READY FOR CONSTRUCTION

AECOM

PROJECT

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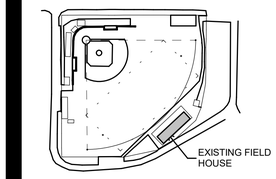
KEY PLAN



SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

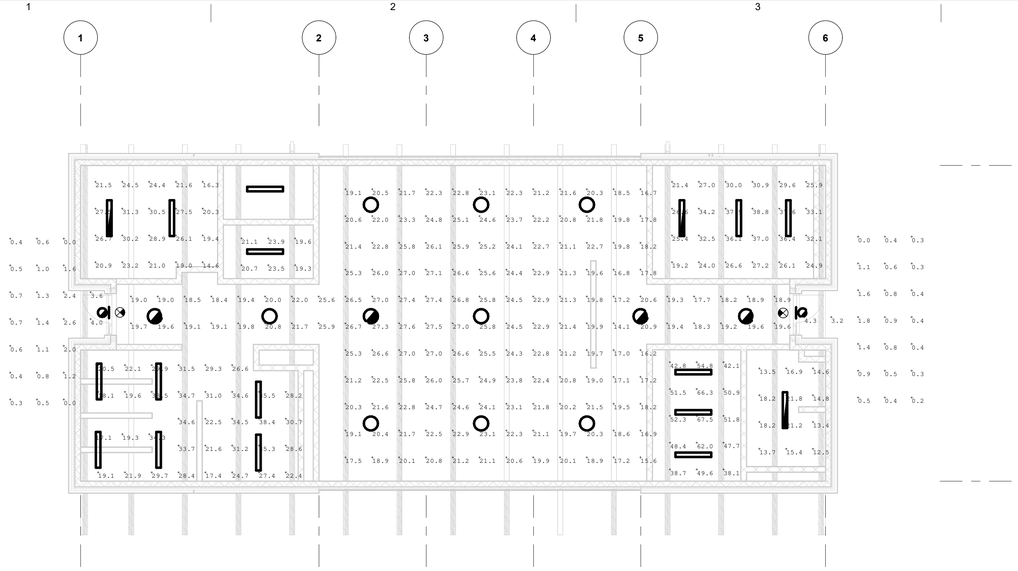
60699711

SHEET TITLE

LIGHTING CALCULATIONS - EXISTING FIELDHOUSE

SHEET NUMBER

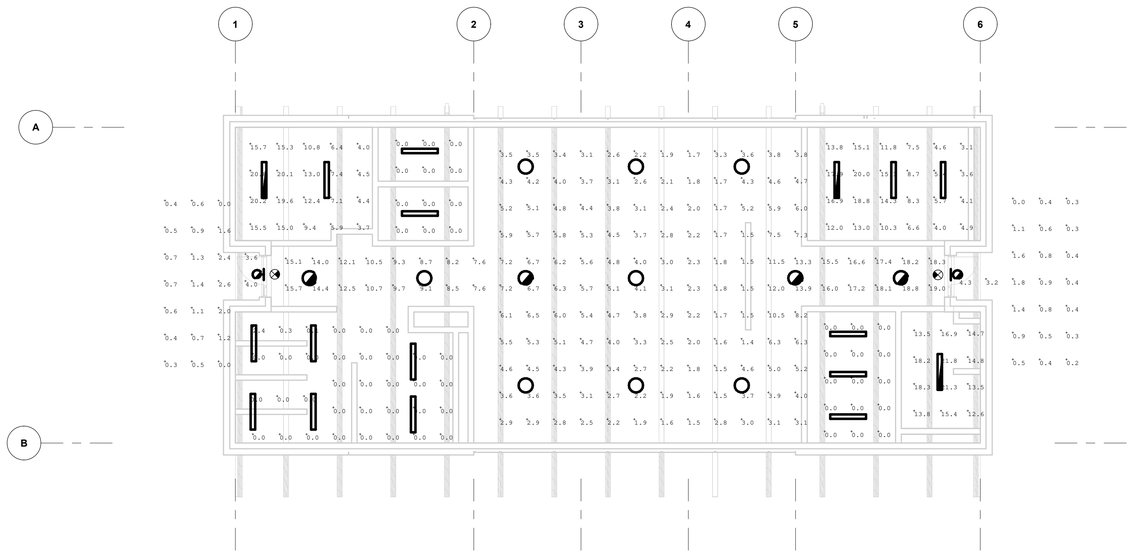
EL800



NORMAL LIGHTING CALCULATION							
Label	Avg (fc)	Min (fc)	Avg/Min	WORKPLANE HEIGHT (ft)	CEILING REFLECTANCE	FLOOR REFLECTANCE	WALL REFLECTANCE
Accessible Bathroom - 102	16.18	12.5	1.29	0	80	50	20
Coach - 103	50.97	38.1	1.34	2.5	80	50	20
Exterior Exit (Primary)	0.93	0.0	N.A.	0	80	50	20
Exterior Exit (Secondary)	1.20	0.0	N.A.	0	80	50	20
Jan - 105A	21.25	18.9	1.12	0	80	50	20
Laundry - 105	21.35	19.3	1.11	0	80	50	20
Locker Room - 100	21.84	14.1	1.55	0	80	50	20
Restroom Showers - 104	28.04	17.4	1.61	0	80	50	20
Trainer - 101	30.02	19.2	1.56	0	80	50	20
Utilities - 106	23.77	14.6	1.63	0	80	50	20

LIGHTING PLAN - NEW FIELD HOUSE CALCULATIONS

1/8" = 1'-0"



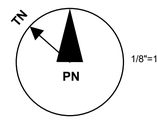
NORMAL LIGHTING CALCULATION							
Label	Avg (fc)	Min (fc)	Avg/Min	WORKPLANE HEIGHT (ft)	CEILING REFLECTANCE	FLOOR REFLECTANCE	WALL REFLECTANCE
Accessible Bathroom - 102	16.23	12.6	1.29	0	80	50	20
Coach - 103	0.00	0.0	N.A.	2.5	80	50	20
Exterior Exit (Primary)	0.93	0.0	N.A.	0	80	50	20
Exterior Exit (Secondary)	1.20	0.0	N.A.	0	80	50	20
Jan - 105A	0.00	0.0	N.A.	0	80	50	20
Laundry - 105	0.00	0.0	N.A.	0	80	50	20
Locker Room - 100	5.60	1.4	4.00	0	80	50	20
Restroom Showers - 104	0.09	0.0	N.A.	0	80	50	20
Trainer - 101	10.23	3.1	3.30	0	80	50	20
Utilities - 106	11.56	3.7	3.12	0	80	50	20

LIGHTING PLAN - NEW FIELD HOUSE CALCULATIONS EMERGENCY

1/8" = 1'-0"

GENERAL NOTES - LIGHTING

1. REFER TO SHEET E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND ADDITIONAL ELECTRICAL GENERAL NOTES. FOR TYPICAL LIGHTING CONTROL SEQUENCE OF OPERATIONS, SEE DETAILS 1-3 ON SHEET E-502.
2. ADJACENT SWITCHES SHALL BE GANGED UNDER ONE COVER PLATE. ADJACENT DIMMERS SHALL BE GANGED WITH INDIVIDUAL COVER PLATES BUT IMMEDIATELY ADJACENT TO EACH OTHER. DO NOT MODIFY DIMMER IN ANY MANNER.
3. COLOR OF COVERPLATES ON MILLWORK, FABRIC, GLASS, STAINLESS AND OTHER SPECIAL FINISH MAY BE DIFFERENT THAN WHITE AND WILL BE SELECTED BY ARCHITECT PRIOR TO INSTALLATION BY CONTRACTOR.
4. WHERE EMERGENCY FIXTURES ARE PROVIDED IN A SPACE, THEY SHALL BE CONTROLLED SIMILARLY BY THE CONTROL DEVICES AS THE NORMAL FIXTURES. EMERGENCY FIXTURES IN EGRESS PATH SHALL TURN ON TO FULL OUTPUT UPON LOSS OF POWER.



GRAPHIC SCALES

AECOM

PROJECT

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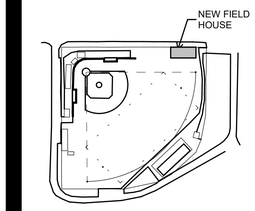
KEY PLAN



SUBMISSION

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PROJECT NUMBER

60699711

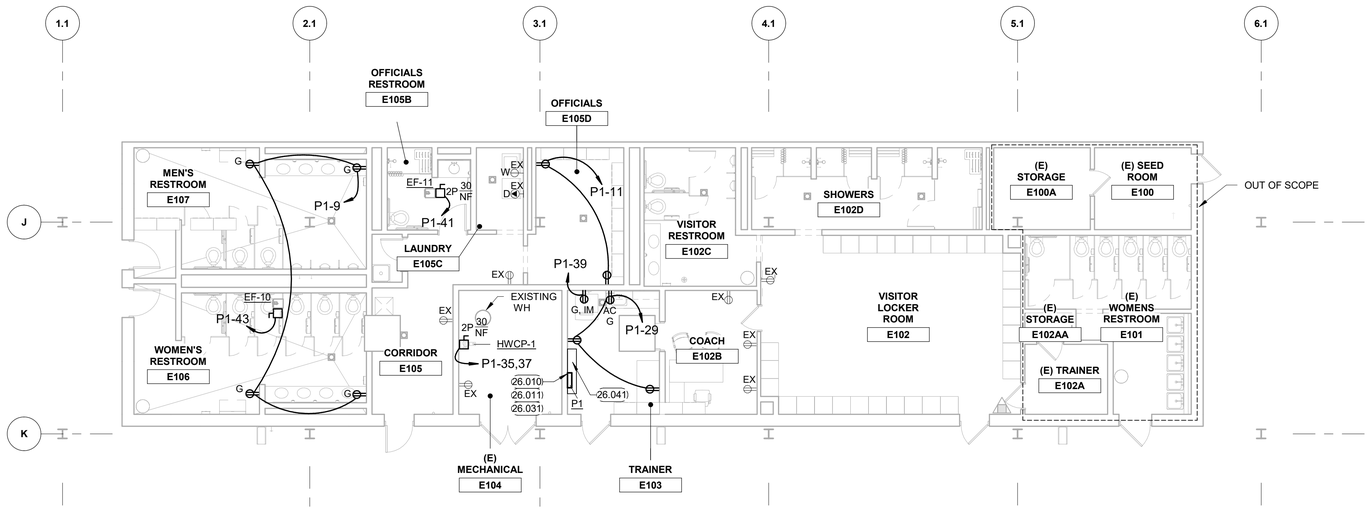
SHEET TITLE

LIGHTING CALCULATIONS - NEW FIELD HOUSE

SHEET NUMBER

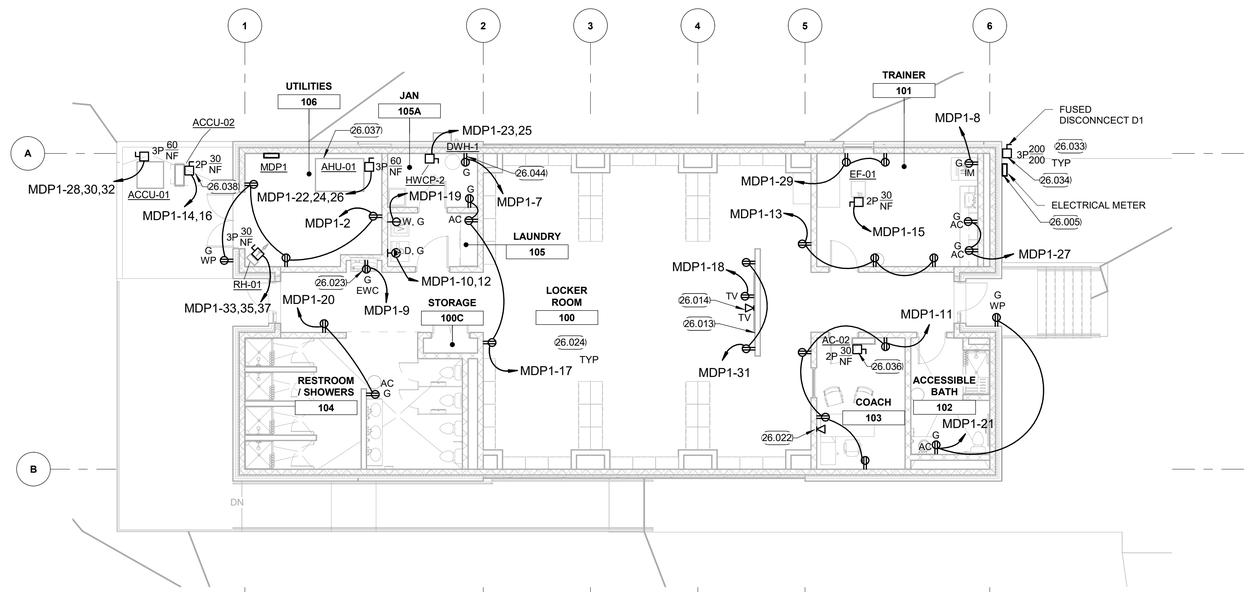
EL801

READY FOR CONSTRUCTION



POWER PLAN - EXISTING BUILDING

1/8" = 1'-0"



POWER PLAN - NEW FIELD HOUSE

1/8" = 1'-0"

GENERAL NOTES - POWER

1. REFER TO SHEET E-001 FOR ELECTRICAL ABBREVIATIONS, AND ELECTRICAL GENERAL NOTES.
2. RECEPTACLE COVER PLATES SHALL BE LABELED WITH CIRCUIT AND PANELBOARD IDENTIFICATION.
3. 120 VOLT, 20 AMP, 1 POLE CIRCUITS OVER 60 FEET SHALL UTILIZE #10, #8, OR #6 AWG WIRE AS REQUIRED. REFER TO BRANCH CIRCUITS SCHEDULE ON E-701 FOR MORE INFORMATION.
4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
5. COORDINATE EXACT REQUIREMENTS FOR MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
6. REFER TO MECHANICAL SECTIONS IN MECHANICAL DRAWINGS TO ASSIST IN COORDINATION OF UTILITIES ABOVE CEILING AREAS.
7. ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT ARE TO BE PROVIDED AS INDUSTRIAL TYPE SWITCH AND LOCK AND TAG OUT COMPATIBLE.
8. FURNISH JUNCTION BOXES WHERE REQUIRED BY CODE OR WHERE INDICATED OR WHERE REQUIRED TO FACILITATE PULLING WIRES REGARDLESS OF WHETHER SHOWN ON DRAWING OR NOT.
9. COORDINATE EXACT LOCATIONS AND REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
10. FINAL LOCATIONS OF POWER SUPPLIES TO SPECIFIC ITEMS OR FIXED EQUIPMENT TO BE COORDINATED WITH FINAL FIXED EQUIPMENT INFORMATION. CONTRACTOR TO USE FINAL EQUIPMENT INFORMATION IN THE PREPARATION OF THE DIVISION 26 ELECTRICAL SHOP DRAWINGS.
11. COLOR OF COVERPLATES ON MILLWORK, FABRIC, GLASS, STAINLESS AND OTHER SPECIAL FINISH MAY BE DIFFERENT THAN WHITE AND WILL BE SELECTED BY ARCHITECT PRIOR TO INSTALLATION BY CONTRACTOR.
12. ALL RECEPTACLES LOCATED WITHIN 6' OF SINKS AND EMERGENCY SHOWERS SHALL BE GFCI.

SHEET KEYNOTES:

26.005 INSTALL METER BASE IN ACCORDANCE WITH DOMINION POWER REQUIREMENTS. SEE DETAIL 5 ON SHEET E-502 FOR MORE INFORMATION. METER BASE FURNISHED BY OTHERS.

26.010 RELOCATE EXISTING BREAKERS AND CONDUIT RETAINED DURING DEMOLITION FROM PANELS NLD1, NLD2, & NLD3 TO PANEL P1. EXTEND ASSOCIATED CIRCUITRY OF EACH CIRCUIT TO PANEL P1 AS NEEDED IN ACCORDANCE WITH NEC. SEE PANEL SCHEDULE ON SHEET E-701 FOR INFORMATION DEPICTING WHERE EACH EXISTING CIRCUIT IS TO BE RELOCATED TO.

26.011 PANEL P1 SHALL NOT BE INSTALLED BELOW EXISTING DUCT.

26.013 CONDUIT FOR DEVICES ON THIS WALL TO RUN BELOW SLAB AND STUB UP INTO WALL.

26.014 PROVIDE JUNCTION BOX FOR FUTURE TELECOMMUNICATIONS DEVICE BY OTHERS. COORDINATE JUNCTION BOX MOUNTING HEIGHT WITH TELEVISION.

26.022 PROVIDE JUNCTION BOX FOR FUTURE TELECOMMUNICATIONS DEVICE BY OTHERS. SEE DETAIL 4 ON SHEET E-502 FOR MORE INFORMATION.

26.023 MOUNT RECEPTACLE FOR WATER COOLER 25 1/8" AFF. COORDINATE FINAL LOCATION WITH EQUIPMENT.

26.024 PAINT ALL EXPOSED CONDUIT TO MATCH ADJACENT WALL. COORDINATE EXACT COLOR WITH ARCHITECT BEFORE PAINTING.

26.031 EXTEND GROUND CONNECTION RETAINED DURING DEMOLOTION FROM DEMOLISHED DISCONNECT TO PANEL P1 GROUND BUSBAR. GROUNDING SHALL BE IN ACCORDANCE WITH NEC.

26.033 CONDUIT ON EXTERIOR OF BUILDING SHALL BE GALVANIZED RIGID STEEL CONDUIT. SEE CONDUIT SIZE AND FEEDER INFORMATION ON SHEET E-601.

26.034 PROVIDE A MEANS FOR THIS DISCONNECT TO BE LOCKABLE IN THE OPEN POSITION. FIELD MARK LOCATION OF DISCONNECT ON PANEL MDP1.

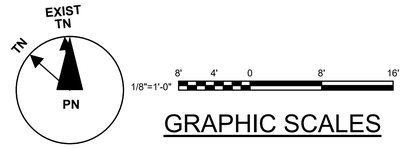
26.036 CONNECT TO COMPANION EXTERIOR ACCU-02 UNIT FOR SUPPLY POWER.

26.037 CONNECT AHU-01 AND ASSOCIATED CONDENSING UNIT ACCU-01 LOCATED ON EXTERIOR PORCH TO PANEL MDP1.

26.038 CONNECT ACCU-02 AND ASSOCIATED INDOOR UNIT AC-02 LOCATED IN ROOM 103 TO PANEL MDP1.

26.041 INSTALL WIREWAY ABOVE PANEL P1 LOCATED 1' BELOW CEILING. SIZE WIREWAY AS REQUIRED BY NEC.

26.044 CONTRACTOR TO COORDINATE RECEPTACLE MOUNTING HEIGHT WITH WATER HEATER.



GRAPHIC SCALES

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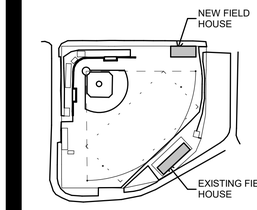
KEY PLAN



SUBMISSION

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PROJECT NUMBER

60699711

SHEET TITLE

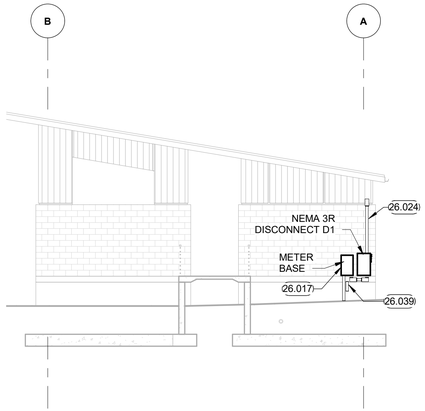
POWER PLANS

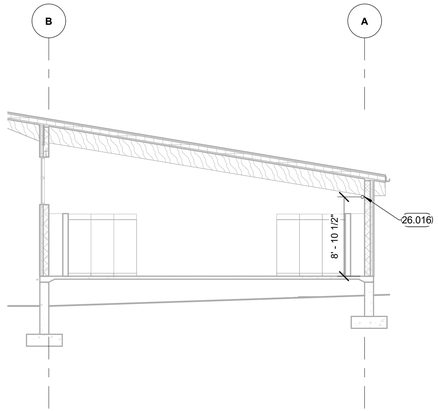
SHEET NUMBER

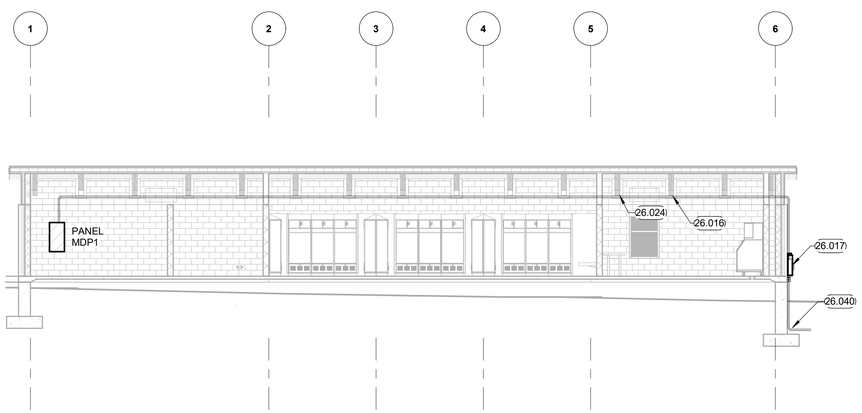
EP100

GENERAL NOTES THIS SHEET

A. REFER TO SHEET G-002 FOR PROJECT ABBREVIATIONS.
B. REFER TO SHEET E-001 LEGEND AND GENERAL NOTES.
C. LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN. HEAVY LINEWEIGHT INDICATES NEW WORK.
D. REFER TO ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK AND COORDINATE EXTENTS WITH RESPECTIVE TRADES. EQUIPMENT OF OTHER TRADES SHOWN FOR REFERENCE IN LIGHT LINEWEIGHT FOR CLARITY.







C2 / E-501
CONDUIT RUN ELEVATIONS
1/8" = 1'-0"

SHEET KEYNOTES:

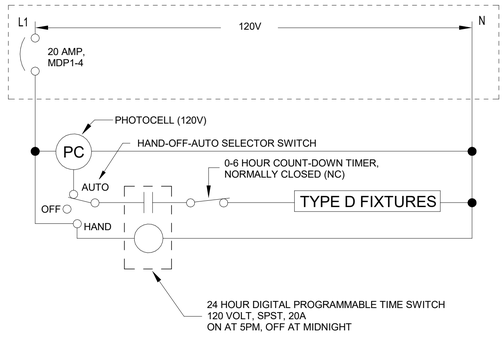
26.016 ELECTRICAL SERVICE CONDUIT TO RUN FROM METER BASE TO PANEL MDP. CONTRACTOR TO RUN CONDUIT DIRECTLY UNDER TRUSS JOINT. SEE SHEET E-601 FOR CONDUIT AND WIRE SIZE.

26.017 METER BASE PROVIDED BY DOMINION POWER. CONTRACTOR TO SUPPLY CONDUIT AND CABLE FROM METER BASE TO PANEL MDP. CONTRACTOR IS RESPONSIBLE FOR METER BASE INSTALLATION. SEE DETAIL B3 ON SHEET E-502 FOR MORE INFORMATION.

26.024 PAINT ALL EXPOSED CONDUIT TO MATCH ADJACENT WALL. COORDINATE EXACT COLOR WITH ARCHITECT BEFORE PAINTING.

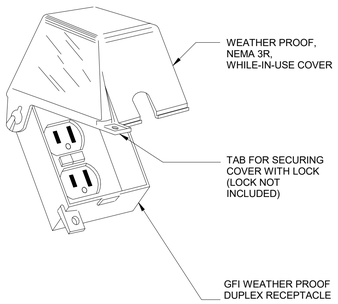
26.039 STUB UP SPARE CONDUIT 1' ABOVE FINISHED GRADE. CAP AND SEAL CONDUIT. COORDINATE WITH DOMINION POWER FOR SPECIFIC REQUIREMENTS.

26.040 CONDUIT SHALL BE BURIED NO LESS THAN 2' BELOW FINISHED GRADE.

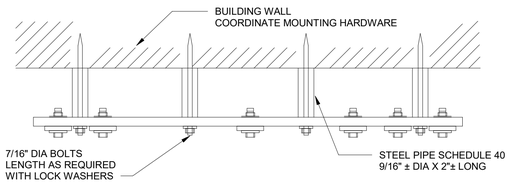


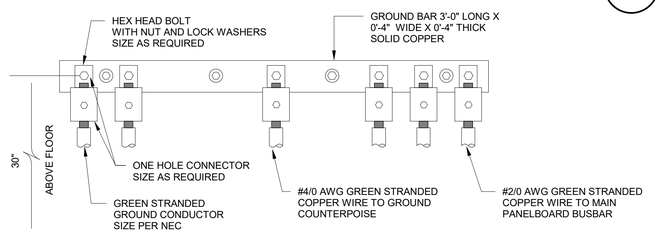
NOTE: LIGHTING TURNS ON AT DUSK WITH PHOTOCELL AND OFF AT CUSTOMER-SELECTED TIME BY TIME SWITCH, INITIALLY SET TO 12 AM.

B5 / E-501
EXTERIOR LIGHTING CONTROL
NOT TO SCALE



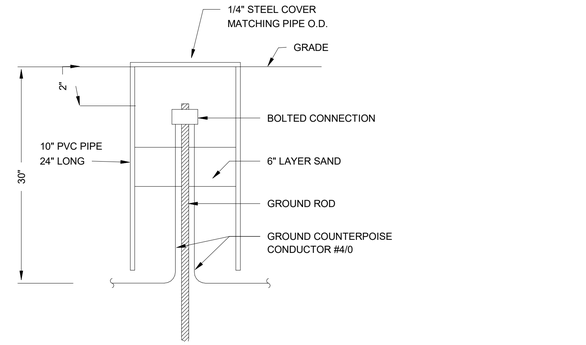
A1 / E-501
WEATHERPROOF WHILE-IN-USE RECEPTACLE DETAIL
NOT TO SCALE





NOTE:
1. PROVIDE NUMBER AND SIZE OF CONNECTORS AND GROUND CONDUCTORS AS REQUIRED FOR EACH GROUND BAR LOCATION. COORDINATE WITH PLANS.

A3 / E-501
TYPICAL GROUND BAR DETAIL
NOT TO SCALE



A5 / E-501
TYPICAL GROUND ROD AND TEST WELL DETAIL
NOT TO SCALE

8' 4' 0 8' 16'
1/8"=1'-0"
GRAPHIC SCALES

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REGISTRATION
COMMONWEALTH OF VIRGINIA
05/05/2023
TREY CLARK
Lic. No. 62393
Trey Clark
PROFESSIONAL ENGINEER

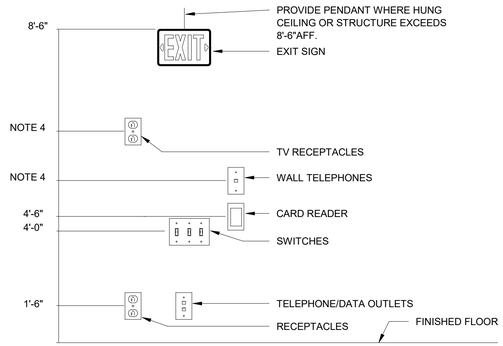
SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER
60699711

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-501



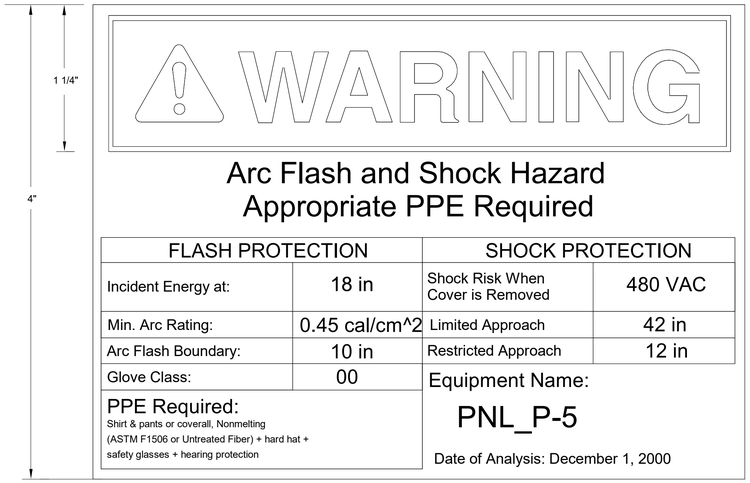
NOTES:

1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS.
2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
3. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.
4. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS AND CASEWORK DETAILS PRIOR TO INSTALLATION.

C1 / E-502

TYPICAL DEVICE MOUNTING HEIGHTS DETAIL

NOT TO SCALE



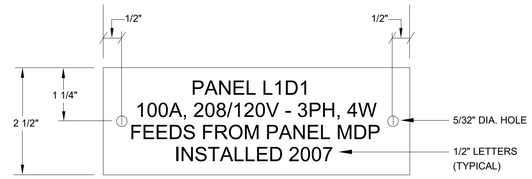
NOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.

C3 / E-502

TYPICAL ARCFLASH WARNING LABEL

NOT TO SCALE



NOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
2. NAMEPLATE TO BE 1/16" THICK WHITE PLASTIC WITH BLACK CENTER LAMINATION. FACE SHALL BE WHITE, ENGRAVED LETTERS SHALL BE BLACK.
3. SECURE NAMEPLATE TO SURFACES WITH (2) FLAT HEAD BRASS SCREWS. ADHESIVE CEMENT SHALL NOT BE ALLOWED.

C5 / E-502

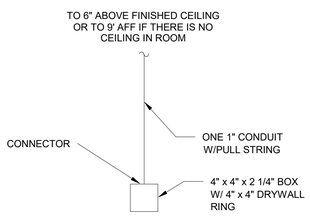
TYPICAL ELECTRICAL EQUIPMENT NAMEPLATE DETAIL

NOT TO SCALE

B1 / E-502

TYPICAL TRENCH DETAIL

NOT TO SCALE

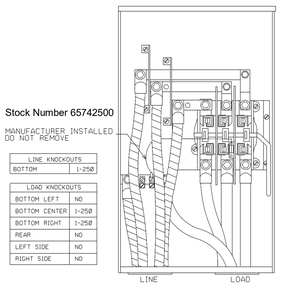


A1 / E-502

TELECOMMUNICATIONS INFRASTRUCTURE DETAIL

NOT TO SCALE

UNDERGROUND 200 AMP MAXIMUM, THREE PHASE, 4-WIRE, 240/120 OR 208/120V



GENERAL NOTES

1. THE CUSTOMER SHALL LEAVE AMPLE LINE AND LOAD CONDUCTOR FOR THE COMPANY TO TRAIN, TERMINATE AND CONNECT TO THE METER TERMINALS. THE COMPANY WILL ONLY ACCEPT COMPRESSION CONNECTORS ON THIS METER BASE.
2. CABLE WHERE ENTERING AND EXITING THE METER BASE SHALL HAVE WATERTIGHT CONNECTORS THAT DO NOT REQUIRE OTHER ADDITIONAL SCALING MATERIAL. CONNECTORS MUST RESIST THE INSERTION OF FOREIGN OBJECTS.
3. THE BYPASS HANDLE MUST NOT BE USED TO MAKE OR BREAK LOAD.
4. A CLEAR SPACE OF 36" MUST BE MAINTAINED IN FRONT OF THE METER BASE AT ALL TIMES.
5. METER ADDRESS TO BE NOTED INSIDE ENCLOSURE (NOT ON COVER) IN A LEGIBLE AND PERMANENT MANNER.
6. THE COMPANY WILL FURNISH THE METER AND METER BASE. THE CUSTOMER SHALL BE RESPONSIBLE FOR INSTALLING THE METER BASE IN ACCORDANCE WITH THE COMPANY'S REQUIREMENTS.
7. ANY PAINTING OF THE METER BASE PERFORMED BY THE CUSTOMER SHALL NOT BE DONE UNTIL AFTER THE COMPANY HAS INSTALLED THE METER. THE METER ITSELF SHALL NOT BE PAINTED.

Division of Responsibilities (Utility Co. vs Contractor)

	Dominion VA Power	Notes	Contractor	Notes
Underground PVC Conduit from Power Pole and associated appurtenances	X	1	X	2
Handholes	X	1	X	2
Meter Base	X	1	X	2
Meter	X	3		
Trenching (Includes excavator, warning tape, etc...)			X	4
Secondary Conductors from DVP Pole to Meter Base	X	3		
Secondary Conductors from Meter Base to Main Distribution Panelboard			X	4

Notes:
1. Furnished by DVP but turned over to the contractor to install
2. Installed by Contractor
3. DVP Furnished, DVP Installed
4. Contractor Furnished, Contractor Installed

B3 / E-502

METER DETAIL AND DIVISION OF RESPONSIBILITY

NOT TO SCALE

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PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

CASEY FIELD & BOODIE ALBERT STADIUM
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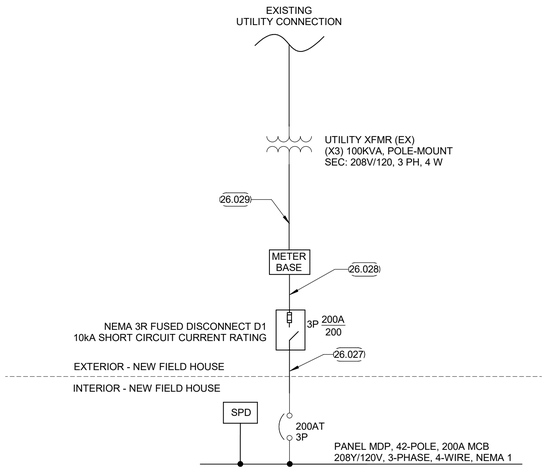
ELECTRICAL DETAILS

SHEET NUMBER

E-502

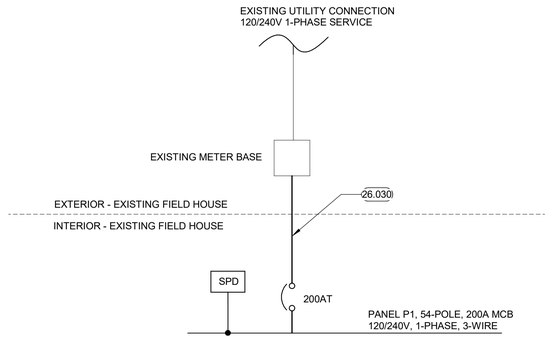
READY FOR CONSTRUCTION



C1
E-601

NEW FIELD HOUSE ONE-LINE DIAGRAM

NOT TO SCALE



A1
E-601

EXISTING FIELD HOUSE ONE-LINE DIAGRAM

NOT TO SCALE

GENERAL NOTES THIS SHEET

A. REFER TO SHEET G-002 FOR PROJECT ABBREVIATIONS.
B. REFER TO SHEET E-001 LEGEND AND GENERAL NOTES.
C. LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN. HEAVY LINEWEIGHT INDICATES NEW WORK.
D. REFER TO ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK AND COORDINATE EXTENTS WITH RESPECTIVE TRADES. EQUIPMENT OF OTHER TRADES SHOWN FOR REFERENCE IN LIGHT LINEWEIGHT FOR CLARITY.

SHEET KEYNOTES:

26.027	PROVIDE 4-#4/0 AWG & 1-#2 AWG GND IN 3" CONDUIT.
26.028	PROVIDE 4-#4/0 AWG IN 3" CONDUIT.
26.029	CONDUIT AND WIRE FROM UTILITY POLE TO METER BASE ARE PROVIDED BY DOMINION POWER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT PATH WITH DOMINION POWER PRIOR TO TRENCHING AND INSTALLATION. CONDUIT SHALL BE BURIED NO LESS THAN 2' BELOW FINISHED GRADE.
26.030	PROVIDE 3-#4/0 AWG & 1-#2 AWG GND IN 2 1/2" CONDUIT.

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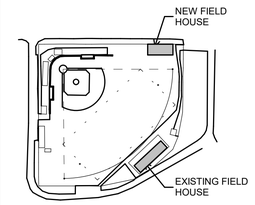
KEY PLAN



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PROJECT NUMBER

60699711

SHEET TITLE

ONE-LINE DIAGRAMS

SHEET NUMBER

E-601

READY FOR CONSTRUCTION

PANEL: P1

BUS AMPS: 200 A

LOCATION: TRAINER E103
SUPPLY FROM:
MOUNTING SURFACE
ENCLOSURE: NEMA 1

DISTRIBUTION: 120/240 Single
NEUTRAL RATING: 0%
SHUNT TRIP MAIN:
SUB-FEED LUGS:
FEED-THRU LUGS:

MAINS TYPE: MCB
A.I.C. RATING 10kA
ISOLATED GROUND:
SPD: YES

NOTES: 1. BOLD FONT FOR CIRCUITS INDICATES NEW WORK.
2. "EX NLDX-Y LOAD" BELOW INDICATES TO RELOCATE THE EXISTING CIRCUITRY AND CONDUIT FROM THE INDICATED PANEL X & CIRCUIT# Y TO THE LOCATION SHOWN.

CKT	DESCRIPTION	TRIP	POLES	A		B		POLES	TRIP	DESCRIPTION	CKT
1	EX NLD1-1 LOAD: UNKNOWN	20 A	1	0.00	0.00			1	20 A	EX NLD1-2 LOAD: RECEPTACLES E102B	2
3	EX NLD1-3 LOAD: LIGHTING E102	20 A	1			0.00	0.00	1	20 A	EX NLD1-4 LOAD: UNKNOWN	4
5	EX NLD1-5 LOAD: FOOTBALL...	20 A	1	0.00	0.00			1	20 A	EX NLD1-6 LOAD: RECEPTACLES E105	6
7	**ALL NEW LIGHTING**	**20 A**	**1**			**0.70**	0.00	1	30 A	EX NLD1-8 LOAD: EXHAUST FAN E102	8
9	**RECEPTACLES E106, E107**	**20 A**	**1**	**0.72**	0.00			2	50 A	EX NLD1-10, 12 LOAD: PRESS BOX HEATER	10
11	**RECEPTACLES E105D**	**20 A**	**1**			**0.36**	0.00				12
13	EX NLD1-13, 15 LOAD: PLUG-IN ON FOOTBALL FIELD	80 A	2	0.00	0.00			1	20 A	EX NLD1-14 LOAD: PRESS BOX HEATER	14
15						0.00	0.00	1	20 A	EX NLD1-16 LOAD: UNKNOWN	16
17	EX NLD1-17 LOAD: UNKNOWN	20 A	1	0.00	0.00			1	30 A	EX NLD1-18 LOAD: GAS HEATERS	18
19	EX NLD1-19 LOAD: UNKNOWN	20 A	1			0.00	0.00	1	20 A	EX NLD1-20 LOAD: DEHUMIDIFIER E102	20
21	EX NLD1-21, 23 LOAD: TICKET BOOTH LOAD	60 A	2	0.00	0.00			1	20 A	EX NLD1-22 LOAD: WASHER E105C	22
23						0.00	0.00	1	20 A	EX NLD1-24 LOAD: DEHUMIDIFIER E105	24
25	EX NLD1-25,27 LOAD: PANEL BOX AT STADIUM	100 A	2	0.00	0.00			2	30 A	EX NLD1-26, 28 LOAD: DRYER E105C	26
27						0.00	0.00				28
29	**RECEPTACLES E103**	**20 A**	**1**	**0.54**	0.00			1	20 A	EX NLD3-2 LOAD: AIR	30
31	EX NLD3-3, 4 LOAD: REC	20 A	2			0.00	0.00	2	20 A	EX NLD3-5, 6 LOAD: ICE	32
33				0.00	0.00						34
35	**HWCP-1 E104**	**20 A**	**2**			**0.56**	0.00	2	40 A	EX NLD2-5, 7 LOAD: VISITOR HEAT/AC	36
37				**0.56**	0.00						38
39	**ICE MAKER RECEPTACLE E103**	**20 A**	**1**			**1.00**	0.00	2	50 A	EX NLD2-6, 8 LOAD: HOME HEAT/AC	40
41	**EF-11 E106**	**20 A**	**1**	**0.51**	0.00						42
43	**EF-10 E105B**	**20 A**	**1**			**0.51**	0.00	1	20 A	SPARE	44
45	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	46
47	SPARE	20 A	1			0.00	0.00	2	20 A	SPARE	48
49	SPACE	--	--	0.00	0.00						50
51	**SPD**	**30 A**	**2**			**0.00**	0.00	--	--	SPACE	52
53				**0.00**	**0.00**			--	--	SPACE	54
		PHASE LOAD:		2.3 kVA		3.1 kVA					
		PHASE AMPS:		19.4 A		25.8 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	PANEL TOTALS	
LIGHTING	0.7 kW	125.00%	0.87 kW		
HVAC	1.01 kW	125.00%	1.27 kW	**CONNECTED LOAD (kVA):**	5
RECEPTACLE	3.75 kW	65.00%	2.44 kW	**DEMAND LOAD (kVA):**	5
DRYER	0 kW	0.00%	0 kW	**CONNECTED AMPS:**	23 A
				DEMAND AMPS:	19 A

PANEL: MDP1

BUS AMPS: 200 A

LOCATION: UTILITIES 106
SUPPLY FROM: UTILITY
MOUNTING SURFACE
ENCLOSURE: NEMA 1

DISTRIBUTION: 208/120 Wye
NEUTRAL RATING: 100%
SHUNT TRIP MAIN: No
SUB-FEED LUGS: No
FEED-THRU LUGS: No

MAINS TYPE: MCB
MCB RATING: 200 A
A.I.C. RATING 10kA
ISOLATED GROUND: No
SPD: Yes

NOTES:

CKT	DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	DESCRIPTION	CKT
1	SPD	30 A	3	0.00	0.72					1	20 A	RECEPTACLES 106	2
3						0.00	0.56			1	20 A	EXTERIOR COVE TAPE LIGHT	4
5								0.00	0.97	1	20 A	INTERIOR LIGHTING	6
7	RECEPTACLE DWH CONTROL PWR 105A	20 A	1	0.10	1.00					1	20 A	ICE MAKER 101	8
9	WATER FOUNTAIN 100	20 A	1			0.26	2.00			2	30 A	DRYER 105	10
11	RECEPTACLES 103	20 A	1					0.72	2.00				12
13	RECEPTACLES 101	20 A	1	0.54	0.03					2	20 A	ACCU-02 EXTERIOR	14
15	EF-01 101	20 A	1			1.13	0.03						16
17	RECEPTACLES 105,105A,100	20 A	1					0.54	0.18	1	20 A	TV 100	18
19	WASHER 105	20 A	1	1.40	0.36					1	20 A	RECEPTACLES 100, 104	20
21	RECEPTACLE 102	20 A	1			0.36	5.75			3	60 A	AHU-01 106	22
23	HWCP-2 105A	20 A	2					0.56	5.75				24
25				0.56	5.75								26
27	RECEPTACLES 101	20 A	1			0.36	3.65			3	60 A	ACCU-01 EXTERIOR	28
29	RECEPTACLES 101	20 A	1					0.36	3.65				30
31	RECEPTACLES 100	20 A	1	0.36	3.65								32
33	RH-01 106	20 A	3			1.10	0.00			2	20 A	SPARE	34
35								1.10	0.00				36
37				1.10	0.00					2	20 A	SPARE	38
39	SPARE	20 A	1			0.00	0.00						40
41	SPARE	20 A	1					0.00	0.00	--	--	SPACE	42
		PHASE LOAD:		15.6 kVA		15.2 kVA		15.8 kVA					
		PHASE AMPS:		130.2 A		126.6 A		132.3 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	PANEL TOTALS	
LIGHTING	0.97 kW	125.00%	1.22 kW		
HVAC	32.68 kW	125.00%	40.85 kW	**CONNECTED LOAD (kVA):**	47
RECEPTACLE	8.94 kW	65.00%	5.81 kW	**DEMAND LOAD (kVA):**	52
DRYER	4 kW	100.00%	4 kW	**CONNECTED AMPS:**	129 A
				DEMAND AMPS:	144 A

BRANCH CIRCUIT SCHEDULE

CIRCUIT TYPE	CIRCUIT BREAKER	CONDUCTORS	CONDUIT
1 POLE - 1 PHASE 2 WIRE + GROUND	20A-1P	2 #12 + 1 #12 G.	3/4"
	30A-1P	2 #10 + 1 #10 G.	3/4"
	40A-1P	2 #8 + 1 #10 G.	3/4"
	50A-1P	2 #6 + 1 #10 G.	3/4"
	60A-1P	2 #4 + 1 #10 G.	1 1/4"
2 POLE - 1 PHASE 2 WIRE + GROUND	20A-2P	2 #12 + 1 #12 G.	3/4"
	30A-2P	2 #10 + 1 #10 G.	3/4"
	40A-2P	2 #8 + 1 #10 G.	3/4"
	50A-2P	2 #6 + 1 #10 G.	3/4"
	60A-2P	2 #4 + 1 #10 G.	1 1/4"
2 POLE - 1 PHASE 3 WIRE + GROUND	20A-2P	3 #12 + 1 #12 G.	3/4"
	30A-2P	3 #10 + 1 #10 G.	3/4"
	40A-2P	3 #8 + 1 #10 G.	3/4"
	50A-2P	3 #6 + 1 #10 G.	3/4"
	60A-2P	3 #4 + 1 #10 G.	1 1/4"
3 POLE - 3 PHASE 3 WIRE + GROUND	20A-3P	3 #12 + 1 #12 G.	3/4"
	30A-3P	3 #10 + 1 #10 G.	3/4"
	40A-3P	3 #8 + 1 #10 G.	3/4"
	50A-3P	3 #6 + 1 #10 G.	3/4"
	60A-3P	3 #4 + 1 #10 G.	1 1/4"
3 POLE - 3 PHASE 4 WIRE + GROUND	20A-3P	4 #12 + 1 #12 G.	3/4"
	30A-3P	4 #10 + 1 #10 G.	3/4"
	40A-3P	4 #8 + 1 #10 G.	3/4"
	50A-3P	4 #6 + 1 #10 G.	1"
	60A-3P	4 #4 + 1 #10 G.	1 1/4"
	80A-3P	4 #4 + 1 #8 G.	1 1/4"

Schedule Notes:

1. CONDUCTOR SIZING BASED ON COPPER CONDUCTORS.
2. TYPE AC AND MC CABLE SHALL NOT BE UTILIZED
3. REFER TO FEEDER SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
4. ALL CONDUCTOR SIZES ARE BASED ON CONDUIT LENGTHS OF 58 FEET FOR 120 VOLT BRANCH CIRCUITS. IF LENGTH EXCEEDS 58 FEET (120V, 20A CIRCUITS), THEN USE WIRE SIZE DENOTED BELOW AND INCREASE CONDUIT SIZE AS REQUIRED BY NEC.

WIRE SIZE	CONDUCTORS	
	120V CIRCUIT	277V CIRCUIT
#10	58' TO 93'	135' TO 215'
#8	93' TO 147'	240' TO 340'
#6	147' AND ABOVE	340' AND ABOVE

GENERAL NOTES THIS SHEET:

A. REFER TO BRANCH CIRCUIT SCHEDULE ON THIS SHEET FOR WIRING, CONDUIT AND VOLTAGE DROP REQUIREMENTS FOR CIRCUIT BREAKER TRIP RATING AND FUSES RATED 80 AMPERES AND BELOW.

B. COORDINATE WIRING AND CONDUIT REQUIREMENTS WITH EQUIPMENT MANUFACTURERS PRIOR TO INSTALLATION FOR EQUIPMENT PROVIDED BY OTHER DIVISIONS OR OWNER.

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PANEL SCHEDULES

SHEET NUMBER

E-701

READY FOR CONSTRUCTION

DOUBLE LINE DUCTWORK SYMBOLS

- SV — STEAM VENT
- HWS — HEATING-HOT WATER SUPPLY
- HWR — HEATING-HOT WATER RETURN
- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- HCS — HOT/CHILLED WATER SUPPLY
- HCR — HOT/CHILLED WATER RETURN
- B — BRINE SUPPLY
- BR — BRINE RETURN
- D — CONDENSATE DRAIN
- C — COLD CONDENSER WATER
- CR — HOT CONDENSER WATER
- MU — MAKE-UP WATER
- HG — REFRIGERANT HOT GAS
- RS — REFRIGERANT SUCTION
- RL — REFRIGERANT LIQUID
- CP — CONDENSATE PUMP DISCHARGE
- BFW — BOILER FEEDWATER
- BD — BOILER BLOW DOWN
- FOS — FUEL-OIL SUPPLY
- FOR — FUEL-OIL RETURN
- FOV — FUEL-OIL VENT
- RHS — REHEAT HOT WATER SUPPLY
- RHR — REHEAT HOT WATER RETURN
- LPS — LOW PRESSURE STEAM
- LPC — LOW PRESSURE CONDENSATE
- PSC — PUMPED STEAM CONDENSATE
- STEAM TRAP
- DS — DRIP STATION
- P.R.S — PRESSURE REDUCING STATION

- PA — PIPE ANCHOR
- PG — PIPE GUIDE OR SLEEVES
- EXPANSION JOINT
- VENTURI
- GATE VALVE
- GLOBE VALVE
- HOSE VALVE WITH CAP
- BUTTERFLY VALVE
- CHECK VALVE
- BALANCING VALVE
- CALIBRATED BALANCING VALVE
- PICBV — TWO WAY PRESSURE INDEPENDENT CONTROL AND BALANCING VALVE
- AUTOMATIC FLOW CONTROL VALVE
- BALL VALVE
- PLUG VALVE
- S — SOLENOID VALVE
- SAFETY OR PRESSURE RELIEF, ANGLE VALVE
- SAFETY OR PRESSURE RELIEF, STRAIGHT THRU VALVE
- PRESSURE REDUCING VALVE (PRV)
- AUTOMATIC CONTROL VALVE, 2 WAY
- AUTOMATIC CONTROL VALVE, 3 WAY
- BLIND FLANGE
- LATERAL Y
- CAP
- ELBOW, 90°
- ELBOW, 90° TURNED UP
- ELBOW 90°, TURNED DOWN
- ELBOW, 45°
- TEE
- TEE, OUTLET TURNED UP
- TEE, OUTLET TURNED DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER (STRAIGHT INVERT)
- UNION
- FLEXIBLE PIPE CONNECTION
- PRESSURE GAGE WITH SHUT OFF COCK AND SIPHON OR PULSATION DAMPENER.
- T — TEMPERATURE GAGE
- THERMOMETER
- PT — PRESSURE/TEMPERATURE TEST PORT
- DOUBLE CHECK VALVE BACKFLOW PREVENTER

- 12x6 — RECTANGULAR DUCT (FIRST FIGURE IS FOR SIDE SHOWN, SECOND FIGURE IS FOR SIDE NOT SHOWN)
- 12"ø — ROUND DUCT
- 12x6Θ — FLAT OVAL DUCT (FIRST FIGURE IS FOR SIDE SHOWN, SECOND FIGURE IS FOR SIDE NOT SHOWN)
- FLEXIBLE ROUND DUCT
- FLEXIBLE DUCT CONNECTION
- BDD — DAMPERS
  3FD: 3HR FIRE DAMPER
  BDD: BACKDRAFT DAMPER
  FSD: FIRE/SMOKE DAMPER
  FD: FIRE DAMPER
  MD: MOTORIZED DAMPER
  SD: SMOKE DAMPER
  VD: VOLUME DAMPER
  SP: SECURE PENETRATION
- DUCT TRANSITION, ROUND OR FLAT OVAL TO RECTANGULAR
- DUCT TRANSITION, RECTANGULAR TO ROUND OR FLAT OVAL
- DUCT TRANSITION, RECTANGULAR, ROUND, OR FLAT OVAL
- R — INCLINED RISE W/RESPECT TO AIR FLOW, RECTANGULAR
- D — INCLINED DROP W/RESPECT TO AIR FLOW, RECTANGULAR
- R — INCLINED RISE W/RESPECT TO AIR FLOW, ROUND OR FLAT OVAL
- D — INCLINED DROP W/RESPECT TO AIR FLOW, ROUND OR FLAT OVAL
- 90° ELBOW, RECTANGULAR WITH TURNING VANES
- 45° ELBOW, RECTANGULAR
- 90° ELBOW, ROUND OR FLAT OVAL (SMOOTH OR 5 PIECE ELBOWS)
- MITERED 90° ELBOW, ROUND OR FLAT OVAL
- 45° ELBOW, ROUND OR FLAT OVAL (SMOOTH OR 3 PIECE ELBOWS)
- VD — DIVIDED FLOW FITTING
- DUCT W/LINING (SPECIFIED WHEN SHOWN TYPICAL RECTANGULAR, ROUND, OVAL) SEE MECHANICAL GENERAL NOTE 4.

- VD — TAP-IN BRANCH, RECTANGULAR
- BRANCH DUCT, CONICAL LATERAL FITTING, ROUND OR FLAT OVAL
- BRANCH DUCT, CONICAL TEE FITTING, ROUND OR FLAT OVAL
- BRANCH DUCT, "Y" FITTING, ROUND OR FLAT OVAL
- SUPPLY DUCT SECTION
- RETURN/EXHAUST DUCT SECTION
- 90° ELBOW TURNED UP, RECTANGULAR
- 90°ELBOW TURNED DOWN, RECTANGULAR
- 90° ELBOW TURNED UP, ROUND
- 90° ELBOW TURNED DOWN, ROUND
- 90° ELBOW TURNED UP, FLAT OVAL
- 90° ELBOW TURNED DOWN, FLAT OVAL
- CEILING DIFFUSER (4-WAY THROW UNLESS INDICATED OTHERWISE BY ARROWS)
- CEILING DIFFUSER (4-WAY THROW UNLESS INDICATED OTHERWISE BY ARROWS)
- CEILING REGISTER OR GRILLE (RETURN)
- CEILING REGISTER OR GRILLE (SUPPLY)
- REGISTER OR GRILLE
- CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION (4-WAY THROW UNLESS INDICATED OTHERWISE BY ARROWS)
- S-000 — LIGHT TROFFER WITH FLEXIBLE DUCT CONNECTION "S" INDICATES SOFFIT, NUMBER INDICATES CFM
- SPS — CEILING LINEAR SLOT OR INTEGRATED CEILING DIFFUSER (CLSD) WITH FLEXIBLE DUCT CONNECTION (ARROWS INDICATE THROW DIRECTIONS)
- STATIC PRESSURE SENSOR
- H — HUMIDIFIER

MISC SYMBOLS

- 0000 — ROOM NUMBER
- ø — ROUND DUCT
- FLAT OVAL DUCT
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- POINT BETWEEN EXISTING WORK TO REMAIN AND EXISTING WORK TO BE REMOVED
- WATER SENSOR (LOCATED BELOW ACCESS FLOOR)
- HD — HEAT DETECTOR
- SD — SMOKE DETECTOR
- DPS — DIFFERENTIAL PRESSURE SENSOR
- VFD — VARIABLE FREQUENCY DRIVE
- ATFP — ANTI TERRORISM / FORCE PROTECTION SWITCH
- M — METER
- INTERVAL TIMER
- H — HUMIDISTAT
- T — THERMOSTAT
- N — NIGHT THERMOSTAT
- HUM — DEHUMIDIFIER
- S1A — AIR DEVICE TYPE (SEE AIR DEVICE SCHEDULE)
- 150 — AIR DEVICE AIRFLOW (CFM)
- FLOW ARROWS INDICATE AIRFLOW DIRECTION (WHEN LESS THAN 4-WAY THROW)

SINGLE LINE DUCTWORK SYMBOLS

- 300x150 — RECTANGULAR DUCT (FIRST FIGURE IS FOR SIDE SHOWN, SECOND FIGURE IS FOR SIDE NOT SHOWN)
- 1500ø — ROUND DUCT
- 900x450Θ — FLAT OVAL DUCT (FIRST FIGURE IS FOR SIDE SHOWN, SECOND FIGURE IS FOR SIDE NOT SHOWN)
- FLEXIBLE ROUND DUCT
- FLEXIBLE DUCT CONNECTION
- BDD — DAMPERS
  BDD: BACKDRAFT DAMPER
  FSD: FIRE/SMOKE DAMPER
  FD: FIRE DAMPER
  MD: MOTORIZED DAMPER
  SD: SMOKE DAMPER
  VD: VOLUME DAMPER
- DUCT TRANSITION
- R — INCLINED RISE W/RESPECT TO AIR FLOW, RECTANGULAR
- D — INCLINED DROP W/RESPECT TO AIR FLOW, RECTANGULAR
- R — INCLINED RISE W/RESPECT TO AIR FLOW, ROUND OR FLAT OVAL
- D — INCLINED DROP W/RESPECT TO AIR FLOW, ROUND OR FLAT OVAL
- 90° ELBOW, RECTANGULAR WITH TURNING VANES
- 90° ELBOW, ROUND OR FLAT OVAL (SMOOTH OR 5-PIECE ELBOWS)
- 45° ELBOW, RECTANGULAR
- 45° ELBOW, ROUND OR FLAT OVAL (SMOOTH OR 3-PIECE ELBOWS)
- DF — DIVIDED FLOW FITTING, RECTANGULAR
- RECTANGULAR TAP-IN BRACH OR ROUND OR FLAT OVAL CONICAL TEE
- INCLINED CONICAL TAKE-OFF, ROUND OR FLAT OVAL
- "Y" FITTING, ROUND OR FLAT OVAL
- 90° ELBOW TURNED UP, RECTANGULAR
- 90° ELBOW TURNED, DOWN, RECTANGULAR
- 90° ELBOW TURNED UP, ROUND, FLAT OVAL SIMILAR
- 90° ELBOW TURNED DOWN, ROUND, FLAT OVAL SIMILAR
- CEILING DIFFUSER (ARROWS INDICATE THROW DIRECTIONS)
- CEILING REGISTER OR GRILLE,RETURN
- CEILING REGISTER OR GRILLE, SUPPLY
- SPS — STATIC PRESSURE SENSOR
- END OF DUCT RUN

MECHANICAL GENERAL NOTES

1. SEE SHEET G-003 FOR ABBREVIATIONS, CHARACTER IDENTIFIERS IN LINES ON PIPING LEGEND ARE ALSO USED FOR ABBREVIATIONS.
2. MECHANICAL LAYOUTS ARE SCHEMATIC. PROVIDE ANY ADDITIONAL DROPS, RISES, OR OFFSETS REQUIRED FOR A COMPLETE INSTALLATION,COORDINATE EXACT ROUTING OF WORK WITH ALL OTHER TRADES AND OBSTRUCTIONS. WORK WITH LIGHTS, CEILING GRID, AND OTHER OBSTRUCTIONS.
3. UNLESS OTHERWISE INDICATED, ROUTE ALL DUCTWORK AND PIPING ABOVE CEILINGS. ROUTE ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS.
4. DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS. INCREASE SHEET METAL DIMENSIONS ON LINED DUCTWORK TO MAINTAIN THE INSIDE CLEAR DIMENSIONS INDICATED.
5. UNLESS OTHERWISE INDICATED, PROVIDE DUCT RUNOUTS TO TERMINAL UNITS SAME SIZE AS TERMINAL UNIT INLET.
6. SIZE FLEXIBLE DUCT RUNOUTS TO TERMINAL AIR DEVICES AS FOLLOWS:

SIZE	CFM
5"ø	0-65
6"ø	70-110
7"ø	115-160
8"ø	165-240
9"ø	245-320
10"ø	325-420
12"ø	425-700

8. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DIFFUSERS, LINEAR SLOT DIFFUSERS, REGISTERS, AND GRILLES.
9. VERIFY EXACT SIZES AND LOCATIONS OF EXISTING WORK BEFORE PURCHASING OR FABRICATING NEW WORK FOR CONNECTION TO OR INSTALLATION IN EXISTING WORK.
10. SOME SYMBOLS INDICATED ON THIS LEGEND SHEET MAY NOT APPEAR ON THE DRAWINGS.
11. DO NOT LOCATE MECHANICAL WORK IN ELECTRICAL OR COMMUNICATION ROOMS, EXCEPT FOR RUNOUTS SPECIFICALLY SERVING THE RESPECTIVE ROOM.
12. DUCTS CROSSING WALLS WITH A RATING OF ONE-HOUR OR LESS SHALL HAVE GALVANIZED DUCTWORK OF AT LEAST 1.2 MM THICK.

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PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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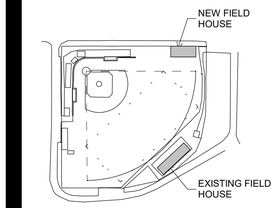
REGISTRATION

COMMONWEALTH OF VIRGINIA
DUSTIN BROWN
Lic. No.0402065431
5/5/23
PROFESSIONAL ENGINEER

KEY PLAN



SUBMISSION

I	5/05/2023	100% CONSTRUCTION DOCUMENTATION
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60699711

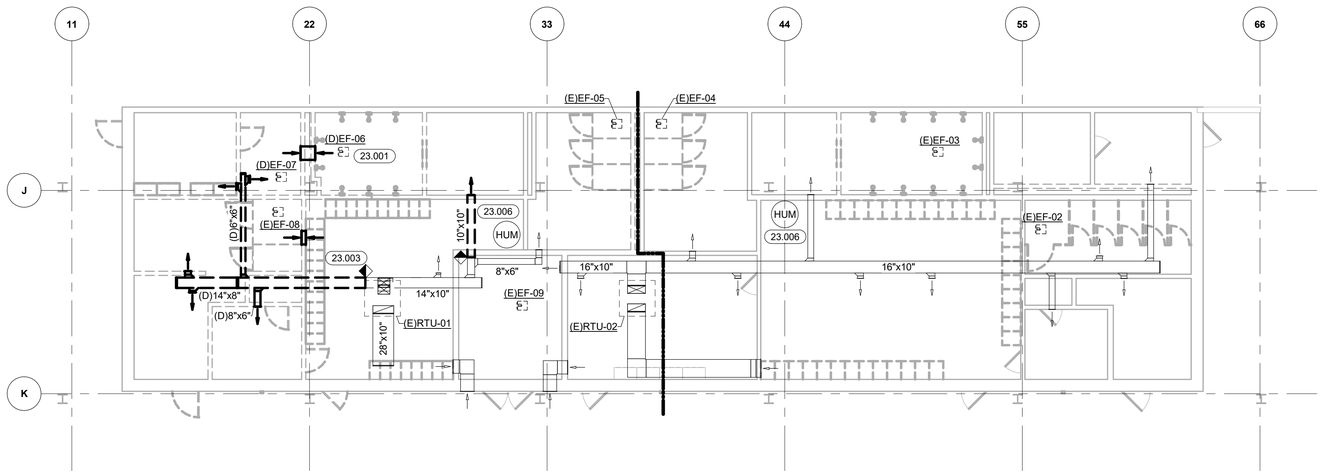
SHEET TITLE

MECHANICAL LEGEND AND GENERAL NOTES

SHEET NUMBER

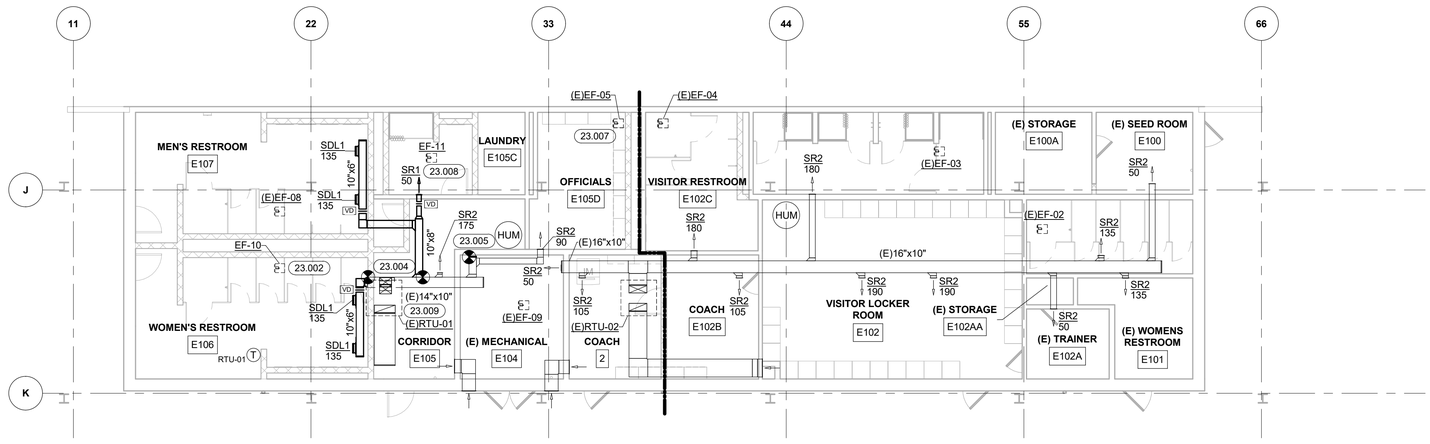
M-001

READY FOR CONSTRUCTION



MECHANICAL DEMOLITION PLAN - EXISTING FIELD HOUSE

1/8" = 1'-0"



FIRST FLOOR - MECHANICAL - FLOOR PLAN - HVAC -EXISTING FIELD HOUSE

1/8" = 1'-0"

EXIST TN

PN

8' 4' 0 8' 16'

1/8"=1'-0"

GRAPHIC SCALES

GENERAL NOTES THIS SHEET

A. REFER TO SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL NOTES.

SHEET KEYNOTES:

23.001	DASHED MECHANICAL EQUIQMENT IS MOUNTED ON THE ROOF.
23.002	NEW EXHAUST FANS TO BE MOUNTED ON THE ROOF.
23.003	DEMO EXISTING DUCTWORK AND DIFFUSERS. ALL OTHER DUCTWORK TO REMAIN IN EXISTING CONDITION.
23.004	NEW DUCTWORK AND DIFFUSERS ATTACH TO EXISTING DUCTWORK.
23.005	CAP AND SUPPORT EXISTING DUCTWORK.
23.006	EXISTING DEHUMIDIFIER TO REMAIN IN PLACE AND USE.
23.007	BALANCE ALL EXISTING EXHAUST FANS TO SCHEDULED AIRFLOWS ON SHEET M-103.
23.008	BALANCE NEW EXHAUST FANS TO SCHEDULED AIRFLOWS ON SHEET M-103.
23.009	EXISTING RTU'S TO REMAIN ON ROOF AND IN USE. RTU'S MUST PROVIDE REQUIRED AIRFLOWS TO EACH ROOM.

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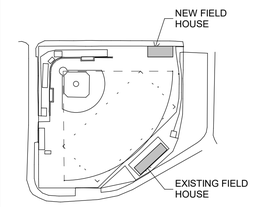
KEY PLAN



SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

MECHANICAL HVAC PLANS - EXISTING FIELD HOUSE

SHEET NUMBER

M-101

READY FOR CONSTRUCTION

HVAC SPECIFICATIONS

PART 1. GENERAL:

A. SCOPE:

FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL ALL AIR CONDITIONING, HEATING AND VENTILATING WORK INDICATED ON THE DRAWINGS, SPECIFIED HEREIN, AND IN ACCORDANCE WITH ALL CITY, STATE, AND NATIONAL CODES.

B. NOISE AND VIBRATION:

EQUIPMENT SHALL OPERATE QUIETLY. THE OPERATION OF THE EQUIPMENT SHALL CAUSE NO PERCEPTIVE VIBRATION OR OBJECTIONABLE NOISE IN ANY PORTION OF THE BUILDING OR STRUCTURE.

C. WARRANTIES:

FURNISH A ONE-YEAR SERVICE AND GUARANTEE ON ALL NEW CONTROLS AND EQUIPMENT. CONTRACTOR SHALL MAKE GOOD ANY DEFECT IN MATERIAL OR WORKMANSHIP FOR (1) ONE YEAR FROM DATE OF ACCEPTANCE. DATE OF ACCEPTANCE IS DATE CERTIFIED BY ARCHITECT/ENGINEER THAT CONTRACT HAS BEEN SATISFACTORILY COMPLETED IN ACCORD WITH CONTRACT DOCUMENTS.

D. EQUIPMENT ANCHORAGE:

PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR EQUIPMENT ANCHORGE TO BUILDING STRUCTURE.

E. SHOP DRAWINGS AND SUBMITTALS:

PROVIDE ARCHITECT/ENGINEER WITH ELECTRONIC SET OF SHOP DRAWINGS OF ALL EQUIPMENT FOR APPROVAL PRIOR TO ORDERING EQUIPMENT.

F. COORDINATION:

CONTRACTOR SHALL COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR AND OTHER TRADES.

G. WORKMANSHIP:

ALL HVAC EQUIPMENT SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER. UNSIGHTLY INSTALLATION SHALL BE REMOVED OR REWORKED AT NO ADDITIONAL EXPENSE TO THE OWNER.

PART 2. PRODUCTS:

A. AIR DEVICES:

FURNISH AND INSTALL DIFFUSERS AS NOTED ON DRAWINGS. COORDINATE EXACT LOCATIONS WITH LIGHTING AND ARCHITECT'S CEILING PLANS. MANUFACTURER SHALL BE PRICE, TITUS, METALAIRE, OR TUTTLE & BAILEY.

SUPPLY DIFFUSERS SHALL BE SQUARE, 24"X24" PERFORATED FACE TYPE FOR INSTALLATION IN LAY-IN CEILING. CONSTRUCTION SHALL BE STEEL OR ALUMINUM WITH REMOVABLE CORE AND HINGED FACE PLATE. FINISH SHALL BE WHITE BAKED POWDER COAT. INLET CONNECTION SHALL BE FOR 14" ROUND DUCT. PROVIDE EQUALIZING GRID AND OPPOSED BLADE DAMPER.

LINEAR SLOT DIFFUSERS SHALL BE STEEL OR ALUMINUM CONSTRUCTION. DIFFUSERS SHALL BE SUITABLE FOR RETURN/TRANSFER AIR AND HAVE 1 DISCHARGE SLOT WITH 1" SLOT WIDTH. DIFFUSER SHALL BE SUITABLE FOR SURFACE MOUNTING. FINISH SHALL BE WHITE BAKED POWDER COAT. CONTINUOUS LENGTH UNITS SHALL BE PROVIDED WITH ALIGNMENT STRIPS AND FACTORY ASSEMBLED CORNER MODULES TO PROVIDE A CONTINUOUS SLOT ASSEMBLY.

PART 3. EXECUTION:

A. DUCTWORK:

INSTALLATION SHALL BE RIGID AND DUCTWORK FREE FROM RATTLES AND AIR NOISES WHEN IN OPERATION. SUPPORT DUCTWORK WITH TRAPEZE HANGERS.

DUCTWORK SHALL BE GALVANIZED SHEET METAL WITH PREINSULATED DOUBLE WALLED ROUND DUCT IN EXPOSED AREAS. INSTALL AND FABRICATE ALL DUCTWORK ACCORDING TO SMACNA STANDARDS. PRESSURE SENSITIVE TAPE SHALL BE USED TO SEAL JOINTS.

B. DUCT INSULATION:

EXHAUST AND TRANSFER AIR DUCTWORK NEED NOT BE INSULATED.

C. TESTING AND BALANCING:

TEST AND BALANCE ALL HEATING, COOLING AND VENTILATING EQUIPMENT AND SYSTEMS TO PERFORM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, OR AS REQUIRED FOR THE PROPER OPERATION AND AS DIRECTED BY THE ENGINEER.

SUBMIT FINAL DETAILED TEST AND BALANCE REPORT TO THE ENGINEER.

TEST AND BALANCE BY CERTIFIED TEST AND BALANCE FIRM.

BASIC REQUIREMENTS FOR MECHANICAL SYSTEMS

A. RESPONSIBILITY OF BIDDERS:

CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS ISSUED AND SHALL VISIT THE PROJECT SITE. BIDDERS MUST BE FAMILIAR WITH THE CODES, RULES AND REGULATIONS IN EFFECT AT THE SITE OF THE WORK. BY SUBMITTING A BID THE CONTRACTOR AGREES HE HAS VISITED THE PROJECT SITE AND HAS REVIEWED EXISTING CONDITIONS AND HAS REFLECTED EXISTING CONDITIONS IN THE BID.

B. MECHANICAL DRAWINGS:

THE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS OR ALL THE DETAILS OF THE EQUIPMENT. CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ASSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

C. COORDINATION:

THE MECHANICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANOR IN THE LOCATIONS SHOWN BUT SHALL BE SUBJECT TO SUCH DEVIATIONS, MODIFICATIONS AND RELOCATIONS AS MAY BE NECESSARY TO CONFORM TO THE REQUIREMENTS OF PROJECT CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK WITH ALL TRADES.

D. PRODUCTS:

PRODUCTS SHALL BE NEW AND FIRST LINE QUALITY, OF GRADE AND TYPE SHOWN ON PLANS AND SPECIFIED, OR EQUALS AS APPROVED BY DESIGNER IN WRITING. ALL PRODUCTS SHALL BE IN CURRENT PRODUCTION WITH NO NOTICE OF BEING DISCONTINUED OR DRASTICALLY CHANGED FROM CURRENT PRODUCTION.

E. PERMITS, CODES AND REGULATIONS:

ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING: INTERNATIONAL BULDING, MECHANICAL AND PLUMBING CODE, NFPA, ASME, ASTM, UL, NEC, NEMA, SMACN, AARI, ANSI, OSHA, ASHRAE, AND CONSTRUCTION STANDARDS. OBTAIN ALL PERMITS AND PAY ALL ASSOCIATED FEES AND REQUEST INSPECTIONS FROM THE AUTHORITY HAVING JURISDICTION.

GENERAL NOTES THIS SHEET

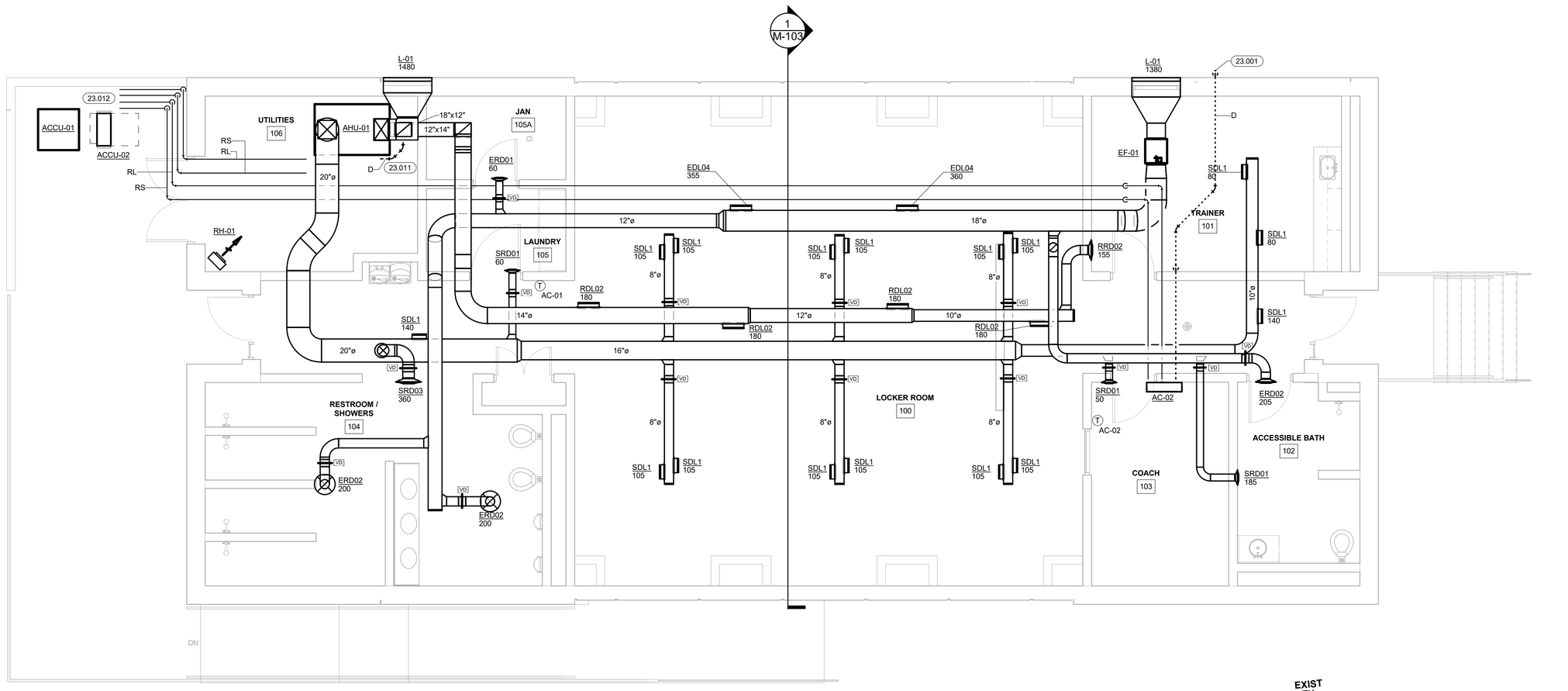
A. REFER TO SHEET M-001 FOR MECHANICAL LEGEND AND GENERAL NOTES.

SHEET KEYNOTES:

23.001 DASHED MECHANICAL EQUIQMENT IS MOUNTED ON THE ROOF.

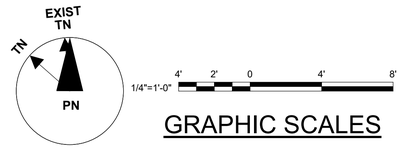
23.011 3/4" CONDENSATE DRAIN DISCHARGE TO FLOOR DRAIN.

23.012 CONNECT REFRIGERANT PIPING TO OUTDOOR CONDENSING UNIT. SIZE PIPING PER MANUFACTURERS REQUIREMENTS.



FIRST FLOOR - MECHANICAL - FLOOR PLAN - HVAC - NEW FIELD HOUSE

1/4" = 1'-0"



GRAPHIC SCALES

READY FOR CONSTRUCTION

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PROJECT

CITY OF COVINGTON SPORTS FIELDS, LOCKER ROOM, AND BATHROOMS

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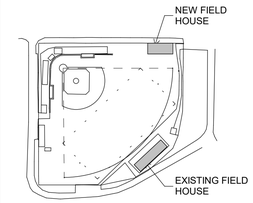
KEY PLAN



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PROJECT NUMBER

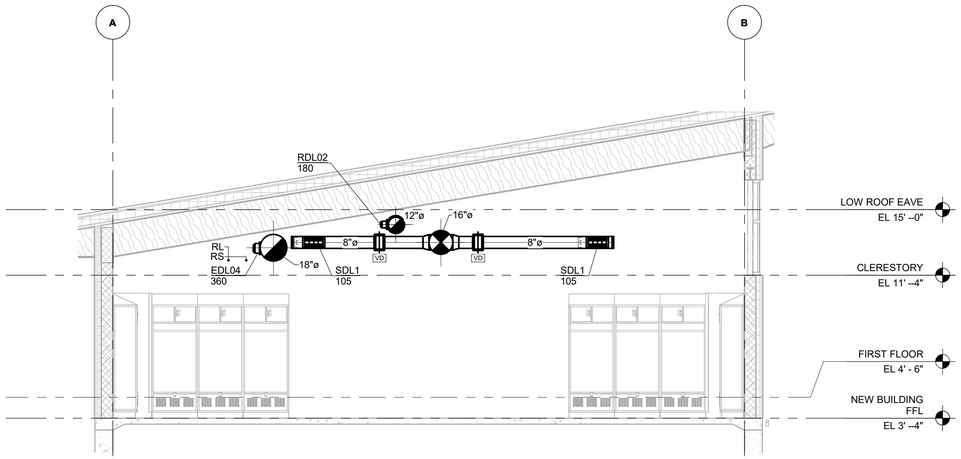
60699711

SHEET TITLE

MECHANICAL HVAC PLANS - NEW FIELD HOUSE

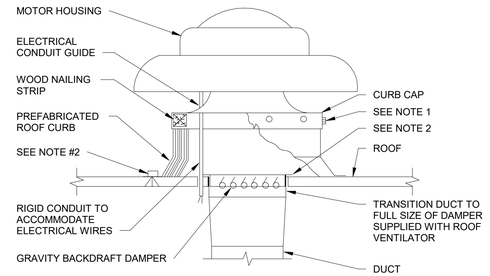
SHEET NUMBER

M-102



1 M-103 SECTION - NEW FIELD HOUSE (N-S)

1/4" = 1'-0"



DETAIL NOTES:

1. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" [10mm] CADMIUM PLATED LAG BOLTS NOT OVER 12" [300mm] ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF).
3. RUN ELECTRICAL LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER, THEN THROUGH VENTILATOR ELECTRICAL CONDUIT GUIDE.

3 TYPICAL EXHAUST FAN DETAIL

1/8" = 1'-0"

NEW FIELD HOUSE FAN SCHEDULE

Mark	PERFORMANCE DATA					MOTOR DATA					GENERAL DATA	
	FAN TYPE	FLOW (CFM)	ESP (IN WG)	DRIVE TYPE	SOUND RATING (SONES)	HP	VOLTS	PHASE	VFD	EMERGENCY POWER	WEIGHT (LBS)	SCHEDULE NOTES
EF-01	INLINE	1380	0.50	DIRECT DRIVE	12	0.50	115	1	No	No	67	

EXISTING FIELD HOUSE FAN SCHEDULE

Mark	PERFORMANCE DATA					MOTOR DATA					GENERAL DATA	
	FAN TYPE	FLOW (CFM)	ESP (IN WG)	DRIVE TYPE	SOUND RATING (SONES)	HP	VOLTS	PHASE	VFD	EMERGENCY POWER	WEIGHT (LBS)	SCHEDULE NOTES
EF-02	ROOFTOP	300	0.20	DIRECT DRIVE	12	0.00	115	1	No	No	0	EXISTING
EF-03	ROOFTOP	200	0.20	DIRECT DRIVE	12	0.00	115	1	No	No	0	EXISTING
EF-04	ROOFTOP	490	0.20	DIRECT DRIVE	12	0.00	115	1	No	No	0	EXISTING
EF-05	ROOFTOP	190	0.20	DIRECT DRIVE	12	0.00	115	1	No	No	0	EXISTING
EF-06	ROOFTOP	0	0.20	DIRECT DRIVE	12	0.00	115	1	No	No	0	DEMO
EF-07	ROOFTOP	0	0.20	DIRECT DRIVE	12	0.00	115	1	No	No	0	DEMO
EF-08	ROOFTOP	300	0.20	DIRECT DRIVE	12	0.00	115	1	No	No	0	EXISTING
EF-09	ROOFTOP	50	0.20	DIRECT DRIVE	12	0.00	115	1	No	No	0	EXISTING
EF-10	ROOFTOP	300	0.20	DIRECT DRIVE	12	0.03	115	1	No	No	19	NEW
EF-11	ROOFTOP	75	0.20	DIRECT DRIVE	12	0.02	115	1	No	No	18	NEW

AIR DEVICE SCHEDULE

TAG	UNIT DATA: FUNCTION	BASIS OF DESIGN: MODEL	GENERAL DATA: MATERIAL	INTEGRAL VOLUME DAMPER	MAX NC	SCHEDULE NOTES
SR1	WALL SUPPLY	300FL	ALUMINUM	Yes	25	AD1
SR2	WALL SUPPLY	300FL	ALUMINUM	Yes	25	AD1
RR18	WALL RETURN	350FL	ALUMINUM	Yes	25	AD1
ER17	WALL EXHAUST	350FL	ALUMINUM	Yes	25	AD1
EDL04	CEILING DIFFUSER	DL	ALUMINUM	Yes	25	AD1
RDL02	CEILING DIFFUSER	DL	ALUMINUM	Yes	25	AD1
SDL1	CEILING DIFFUSER	DL	ALUMINUM	Yes	25	AD1
ERD01	DIFFUSER	TMRA-06-26	ALUMINUM	Yes	25	AD1, AD2
ERD02	DIFFUSER	TMRA-08-26	ALUMINUM	Yes	25	AD1, AD2
RRD02	DIFFUSER	TMRA-08-26	ALUMINUM	Yes	25	AD1, AD2
SRD01	DIFFUSER	TMRA-06-26	ALUMINUM	Yes	25	AD1, AD2
SRD03	DIFFUSER	TMRA-10-26	ALUMINUM	Yes	25	AD1, AD2

AIR HANDLING UNIT SCHEDULE (PART 1 OF 2)

TAG	UNIT DATA: LOCATION	SUPPLY FAN DATA: TOTAL AIRFLOW (CFM)	MIN OA (CFM)	ESP (IN WG)	TSP (IN WG)	# OF FANS	HP (EACH)	BHP (EACH)	SCHEDULE NOTES
AHU-01	UTILITIES	2,360	1,480	1.50	2.00	1	3.00	1.72	

AIR HANDLING UNIT SCHEDULE (PART 2 OF 2)

TAG	COOLING COIL DATA: TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	ROWS	HEATING INFO: ELECTRIC HEAT CAPACITY (MBH)	EAT DB (°F)	LAT DB (°F)	FILTER DATA: FILTER (MERV)	GENERAL DATA: WEIGHT (LBS)	SCHEDULE NOTES
AHU-01	84.6	67.7	75.0	63.0	54.4	53.3	3	46.0	68.0	82.1	8	403	

DUCTLESS SPLIT SYSTEM SCHEDULE (DX)

TAG	INDOOR UNIT DATA: LOCATION	FUNCTION	TYPE	INDOOR COOLING DATA: AIRFLOW (CFM)	TOTAL COOLING CAPACITY (MBH)	INDOOR HEATING DATA: HEAT PUMP	HEATING CAPACITY (MBH)	FILTER	INDOOR ELECTRICAL DATA: POWERED FROM OUTDOOR UNIT	OUTDOOR PERFORMANCE DATA: EER	SEER	COMPRESSOR DATA: REFRIG TYPE	TYPE	OUTDOOR ELECTRICAL DATA: MCA	MOCP	VOLTS	PHASE	EMERGENCY POWER	SCHEDULE NOTES
AC-02	COACH	COOLING/HEATING	HIGH WALL	237	8.0	Yes	9.0	PP HONEYCOMB	Yes	12.01	0	R-410A	ROTARY	11.80	20	240	1	No	SS5, SS7

AECOM

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DUSTIN BROWN
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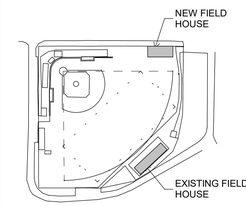
5/5/23
PROFESSIONAL ENGINEER

KEY PLAN



SUBMISSION

I/R	DATE	DESCRIPTION
I	5/05/2023	100% CONSTRUCTION DOCUMENTATION

PROJECT NUMBER

60699711

SHEET TITLE

MECHANICAL HVAC SECTIONS - NEW FIELD HOUSE

SHEET NUMBER

M-103

READY FOR CONSTRUCTION