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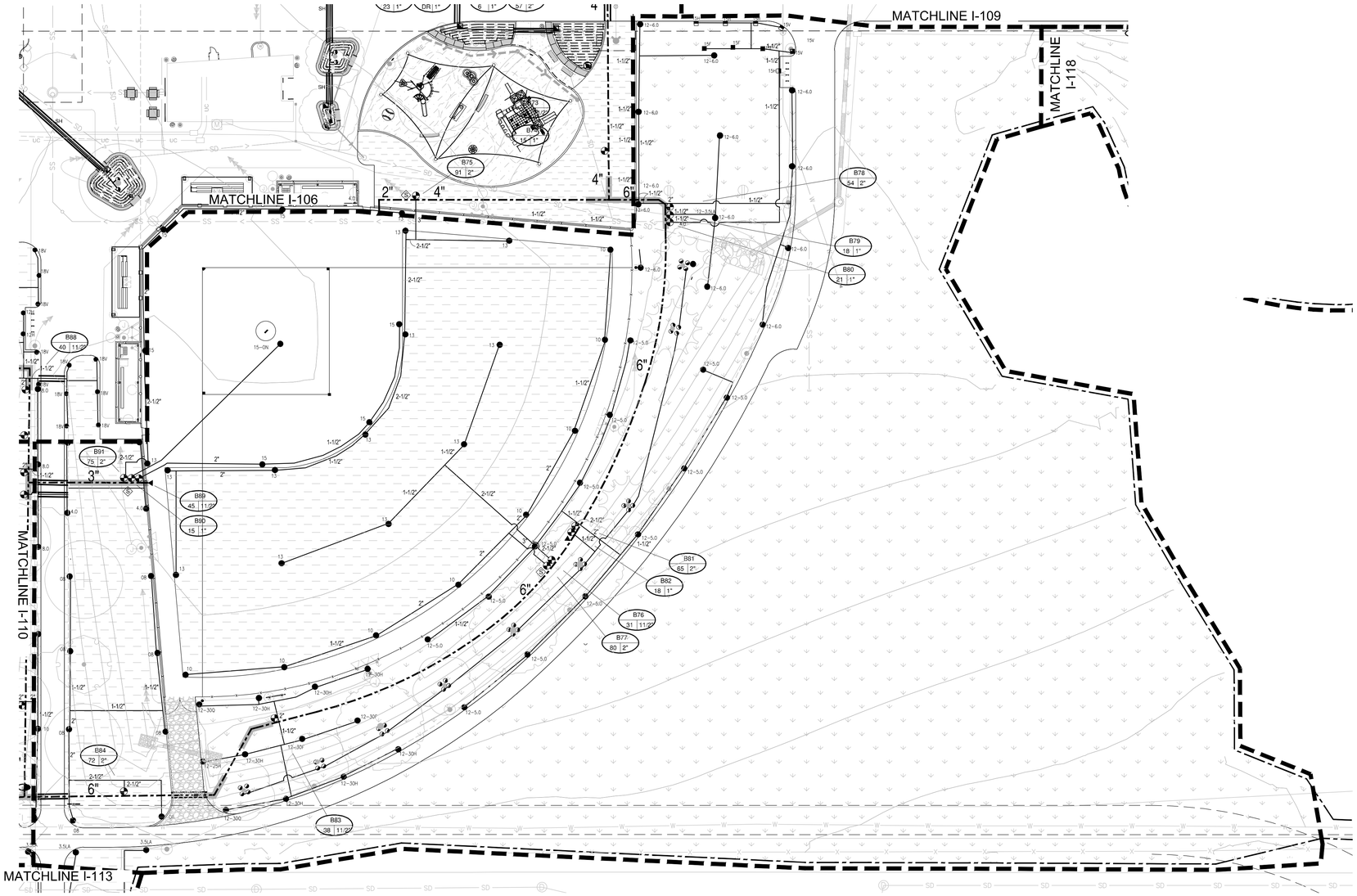

A1 SOUTHEAST BALLFIELD IRRIGATION ENLARGEMENT - BASE BID

1" = 30'-0"

SCALE: 1" = 30'-0"

0' 15' 30' 60' 90'

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Town of Parker, Director of Engineering Date

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Denver, CO 80202
p. 303.444.1951

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3000 Youngfield Street, #264
Wheat Ridge, CO 80215
p. 303.278.7297

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11757 W. Ken Caryl Ave., Suite F-509
Littleton, CO 80127
p. 303.986.2175

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ENVISION Mechanical Engineers, Inc.
9777 Pyramid Court, #260
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p. 303.688.0223

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ARCHITECTURE

LANDSCAPE ARCHITECTURE

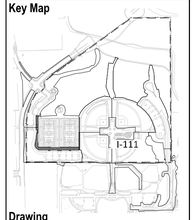
PLANNING

INTERIOR DESIGN

	DATE	DESCRIPTION

Project Number:	223072.00
Sheet Issue Date:	2025-05-02
Drawn By:	DZ
Checked By:	DZ

Key Map



Drawing

SOUTHEAST BALLFIELD IRRIGATION ENLARGEMENT- BASE BID

I-111

SITE PLAN SUBMITTAL

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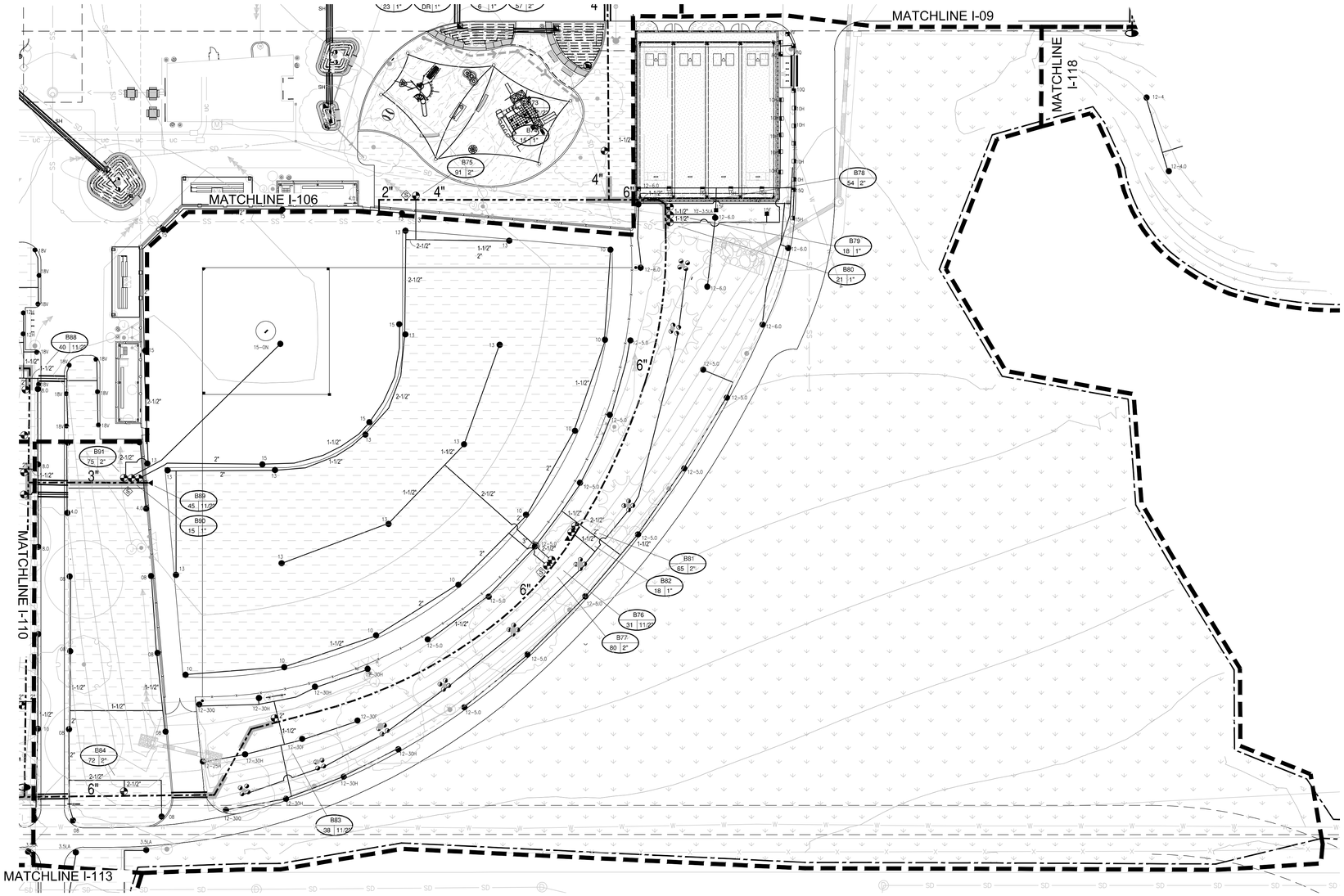

A1 SOUTHEAST BALLFIELD IRRIGATION ENLARGEMENT - ADD ALTERNATE NO. 04

1" = 30'-0"

SCALE: 1" = 30'-0"

0' 15' 30' 60' 90'

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Wheat Ridge, CO 80215
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p. 303.986.2175

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INTERIOR DESIGN

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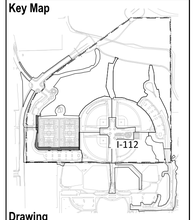
Key Map



Drawing

SOUTHEAST BALLFIELD IRRIGATION ENLARGEMENT- ADD ALTERNATE NO. 04

I-112

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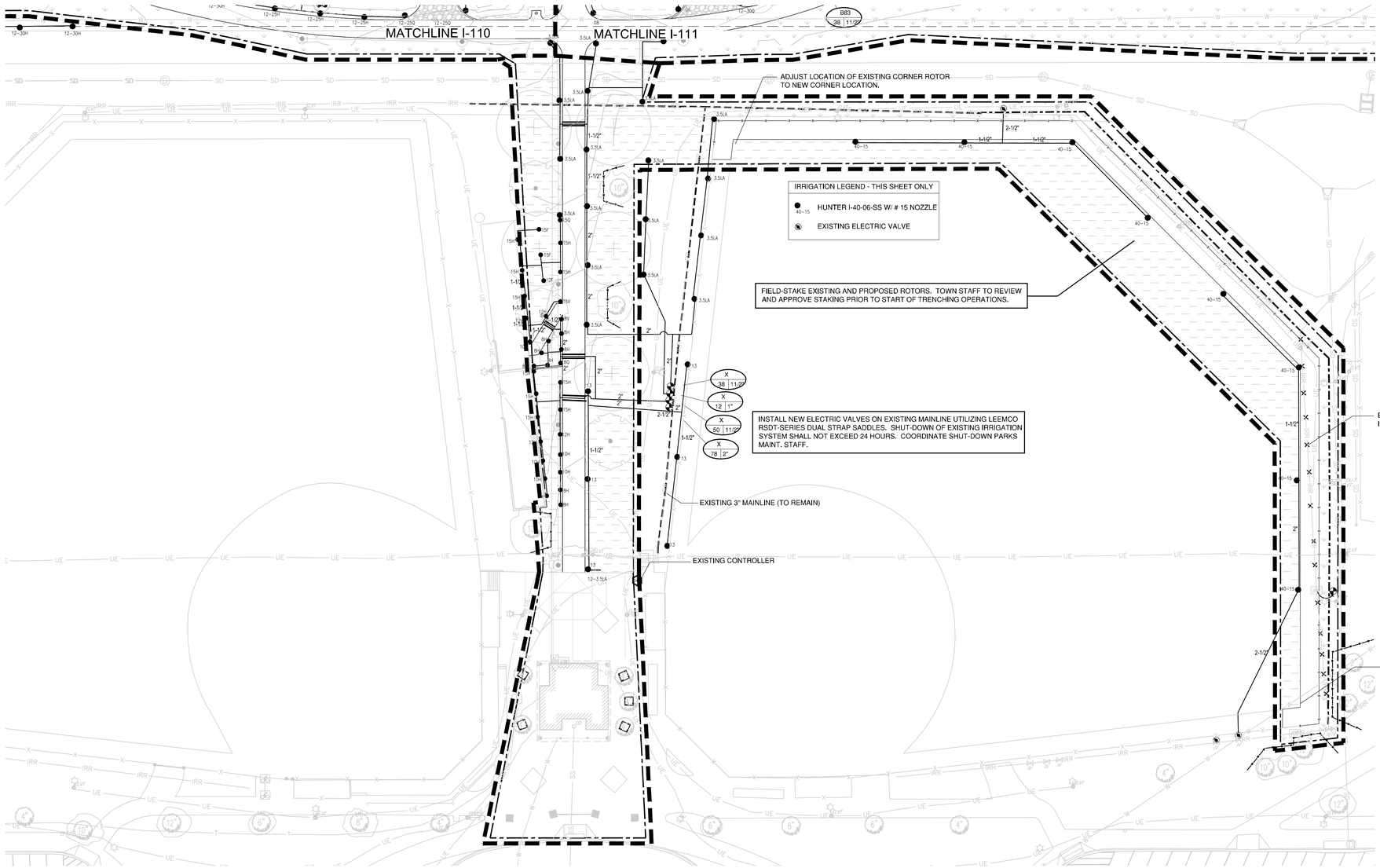

A1 EXISTING PARK IMPROVEMENTS IRRIGATION ENLARGEMENT

1" = 30'-0"

SCALE: 1" = 30'-0"

0' 15' 30' 60' 90'

Avocet IRRIGATION DESIGN
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LITTLETON, COLORADO 80127
303-562-5698
avocet@wispertel.net

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Wheat Ridge, CO 80215
p. 303.278.7297

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

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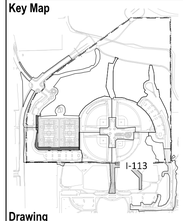

Drawing

EXISTING PARK IMPROVEMENTS IRRIGATION ENLARGEMENT

I-113

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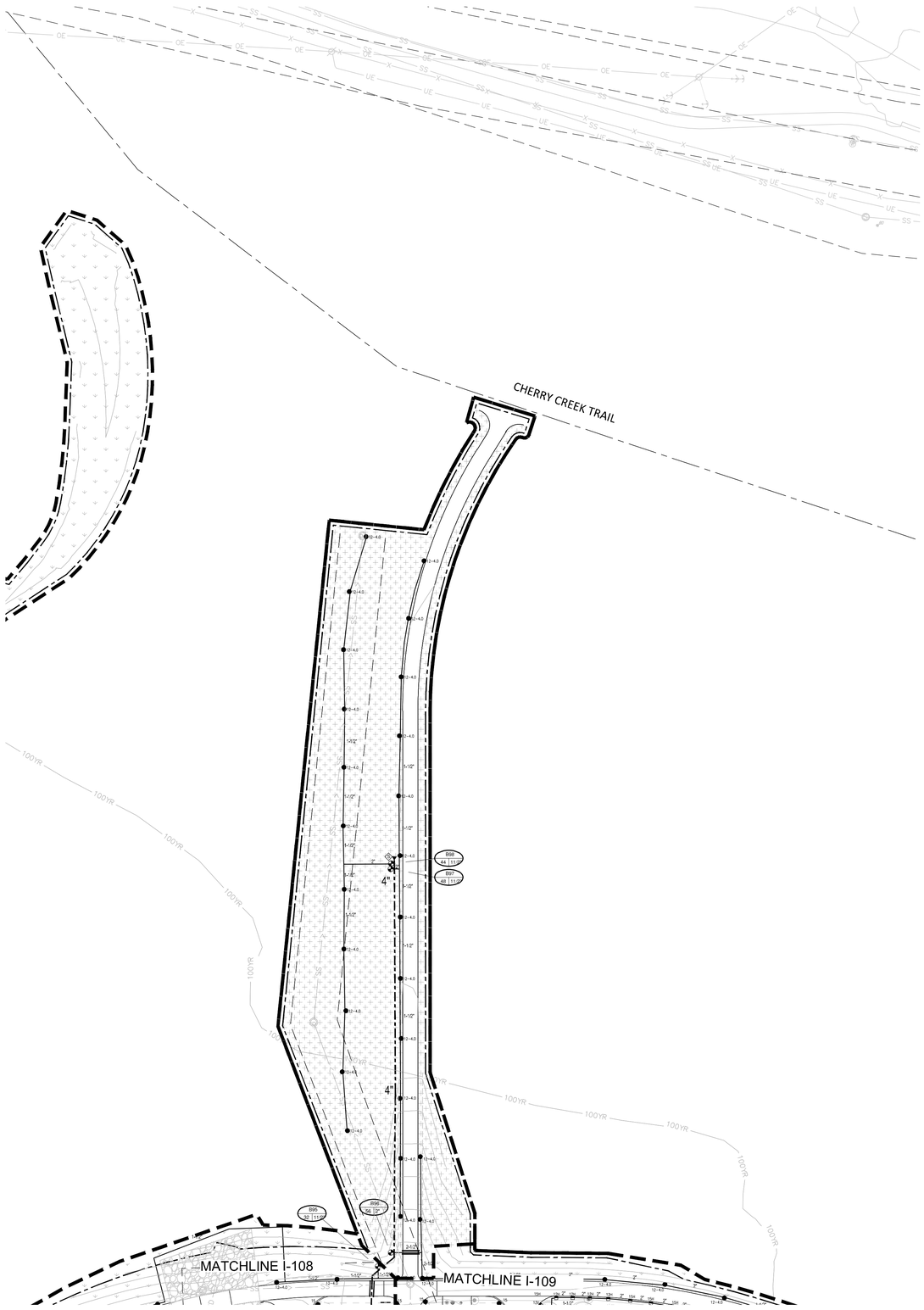

A1 CHERRY CREEK CONNECTION IRRIGATION ENLARGEMENT

1" = 40'-0"

SCALE: 1" = 40'-0"

0' 20' 40' 80' 120'

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Town of Parker, Director of Engineering Date

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avocet@wispertel.net

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LANDSCAPE ARCHITECTURE

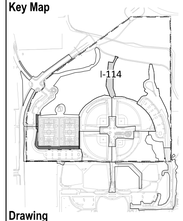
PLANNING

INTERIOR DESIGN

	DATE	DESCRIPTION

Project Number:	223072.00
Sheet Issue Date:	2025-05-02
Drawn By:	DZ
Checked By:	DZ

Key Map



Drawing

CHERRY CREEK CONNECTION IRRIGATION ENLARGEMENT

I-114

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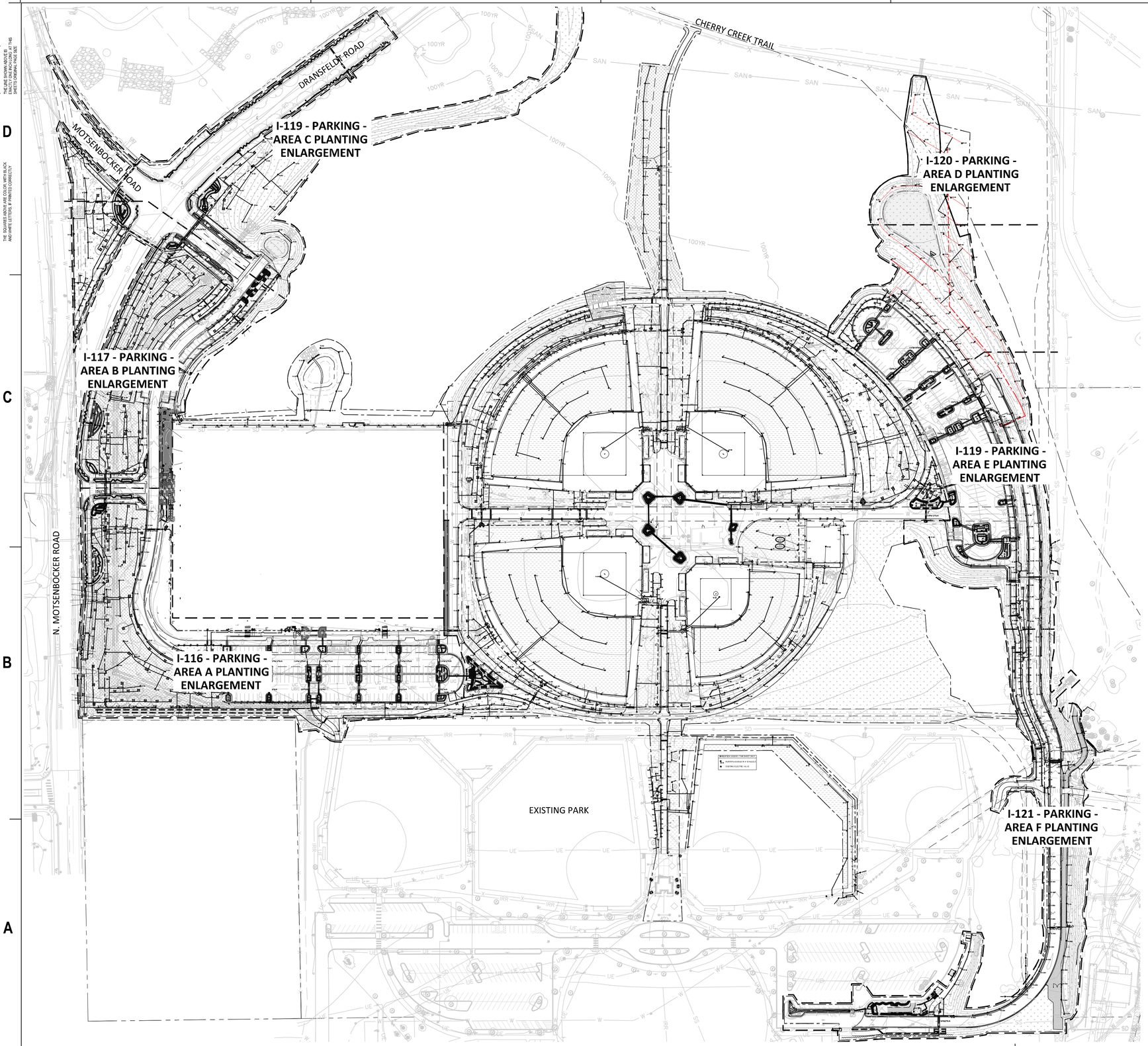

A1 **OVERALL PARKING - IRRIGATION KEY PLAN**
1" = 100'-0"

SCALE: 1" = 100'-0"
0' 60' 120' 240' 480

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Town of Parker, Director of Engineering Date

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
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INTERIOR DESIGN

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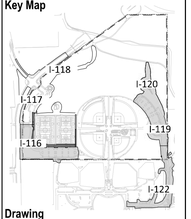
Checked By:	DZ

Key Map



Drawing
OVERALL PARKING - IRRIGATION KEY PLAN

I-115

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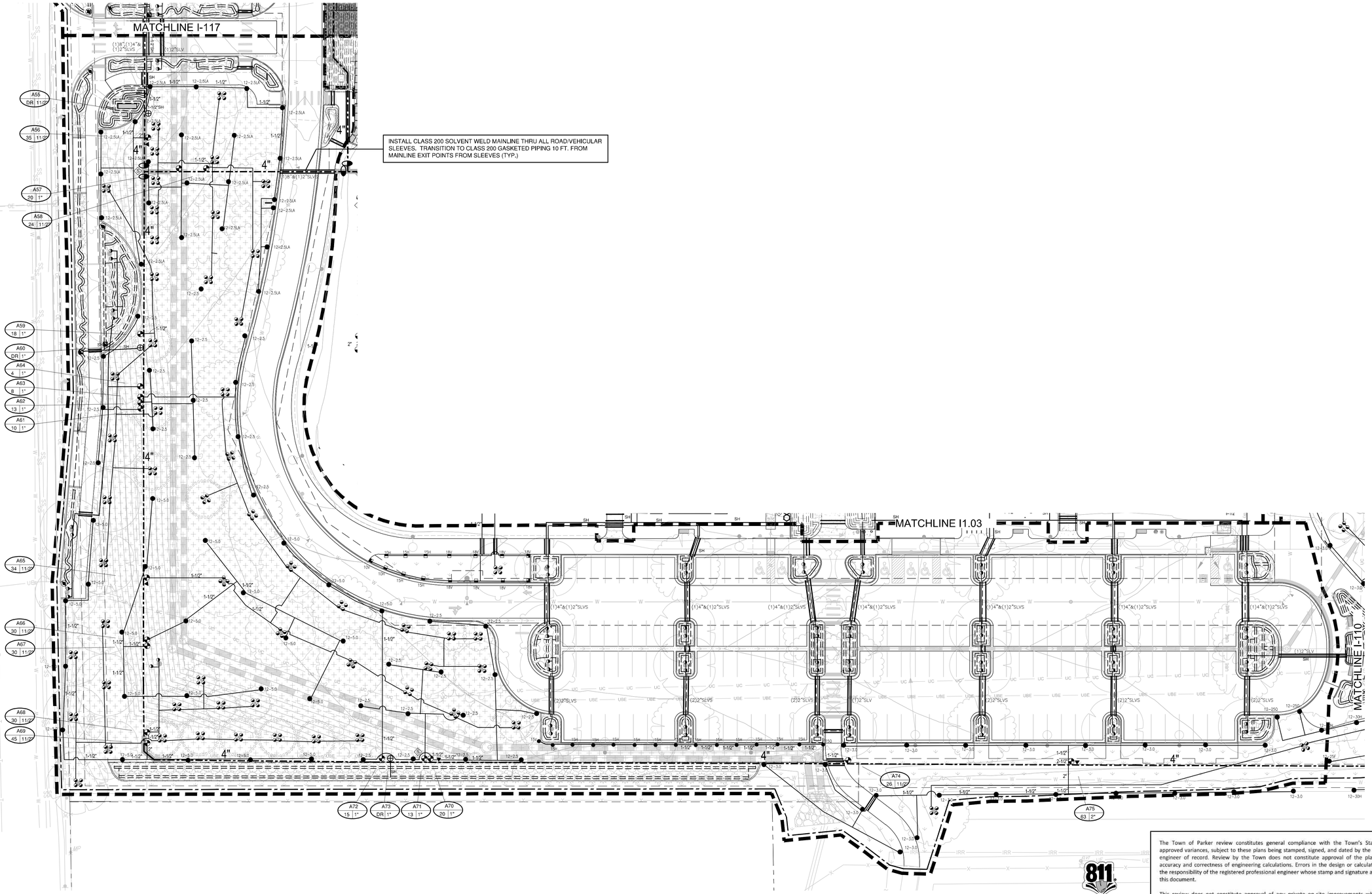
K Y M C



A1 PARKING - AREA A IRRIGATION ENLARGEMENT

1" = 30'-0"

SCALE: 1" = 30'-0"

0' 15' 30' 60' 90'

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Town of Parker SALISBURY REGIONAL PARK - PHASE 1

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PLANNING

INTERIOR DESIGN

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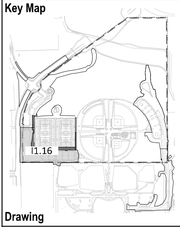
Key Map



Drawing

PARKING - AREA A IRRIGATION ENLARGEMENT

I-116

SITE PLAN SUBMITTAL
Page 240 of 313

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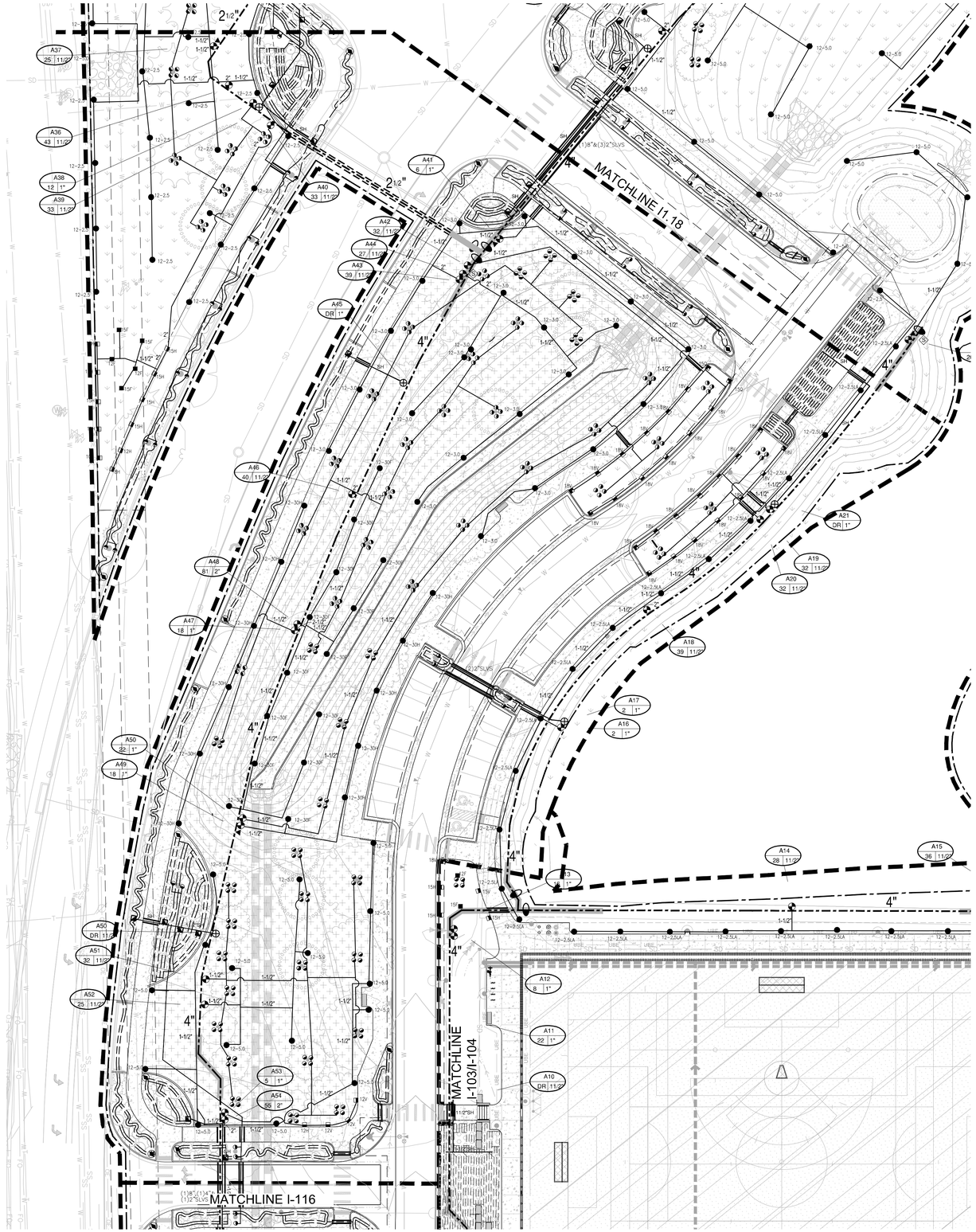

A1 PARKING - AREA B IRRIGATION ENLARGEMENT

1" = 30'-0"

SCALE: 1" = 30'-0"

0' 15' 30' 60' 90'

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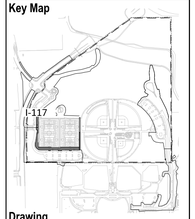

Drawing

PARKING - AREA B IRRIGATION ENLARGEMENT

I-117

SITE PLAN SUBMITTAL
Page 241 of 313

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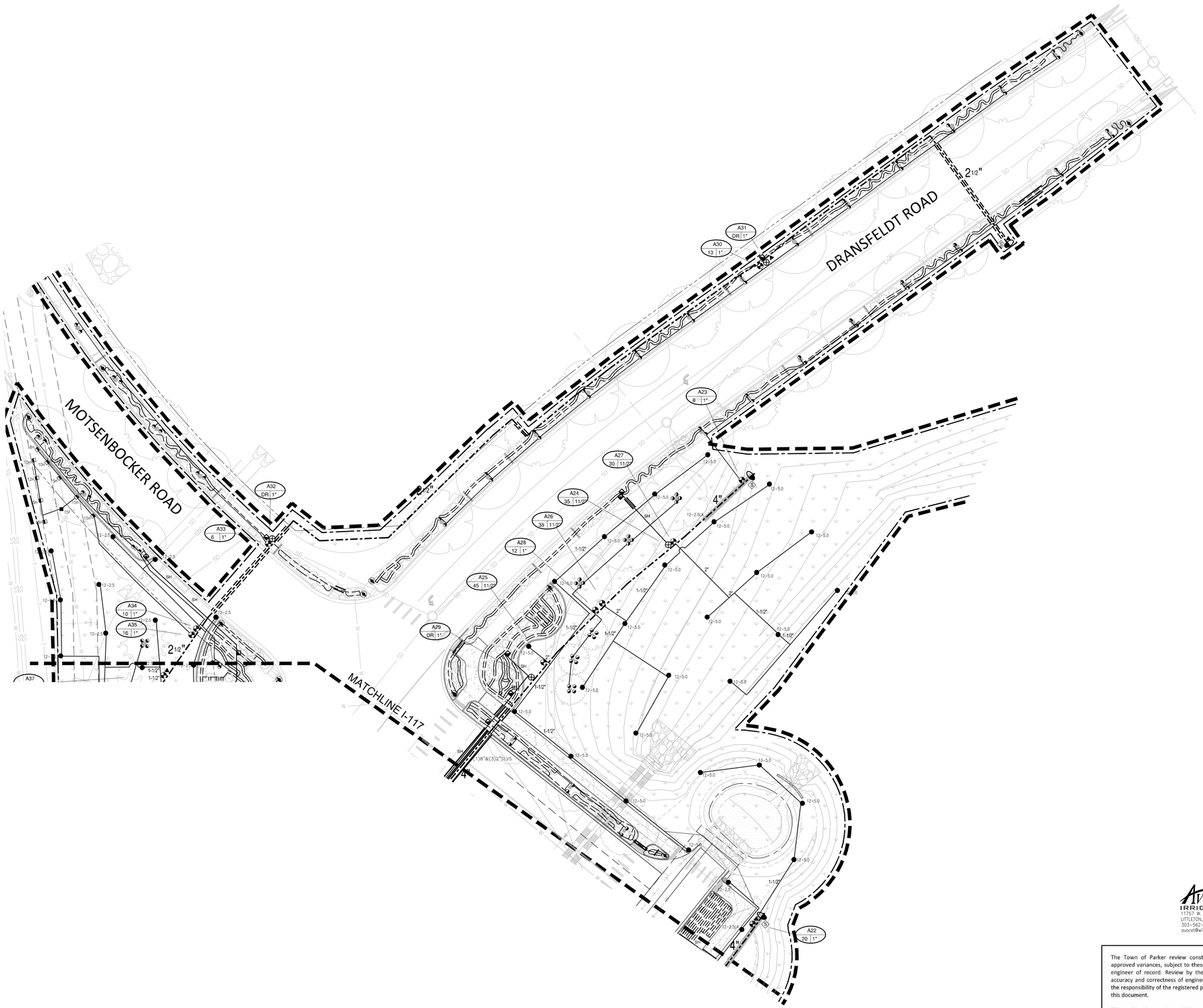

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0' 15' 30' 60' 90'

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PARKER, CO 80134

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
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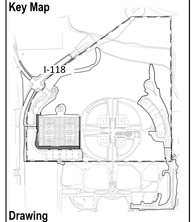

Drawing

PARKING - AREA C IRRIGATION ENLARGEMENT

I-118

SITE PLAN SUBMITTAL
Page 242 of 313

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Town of Parker, Director of Engineering Date

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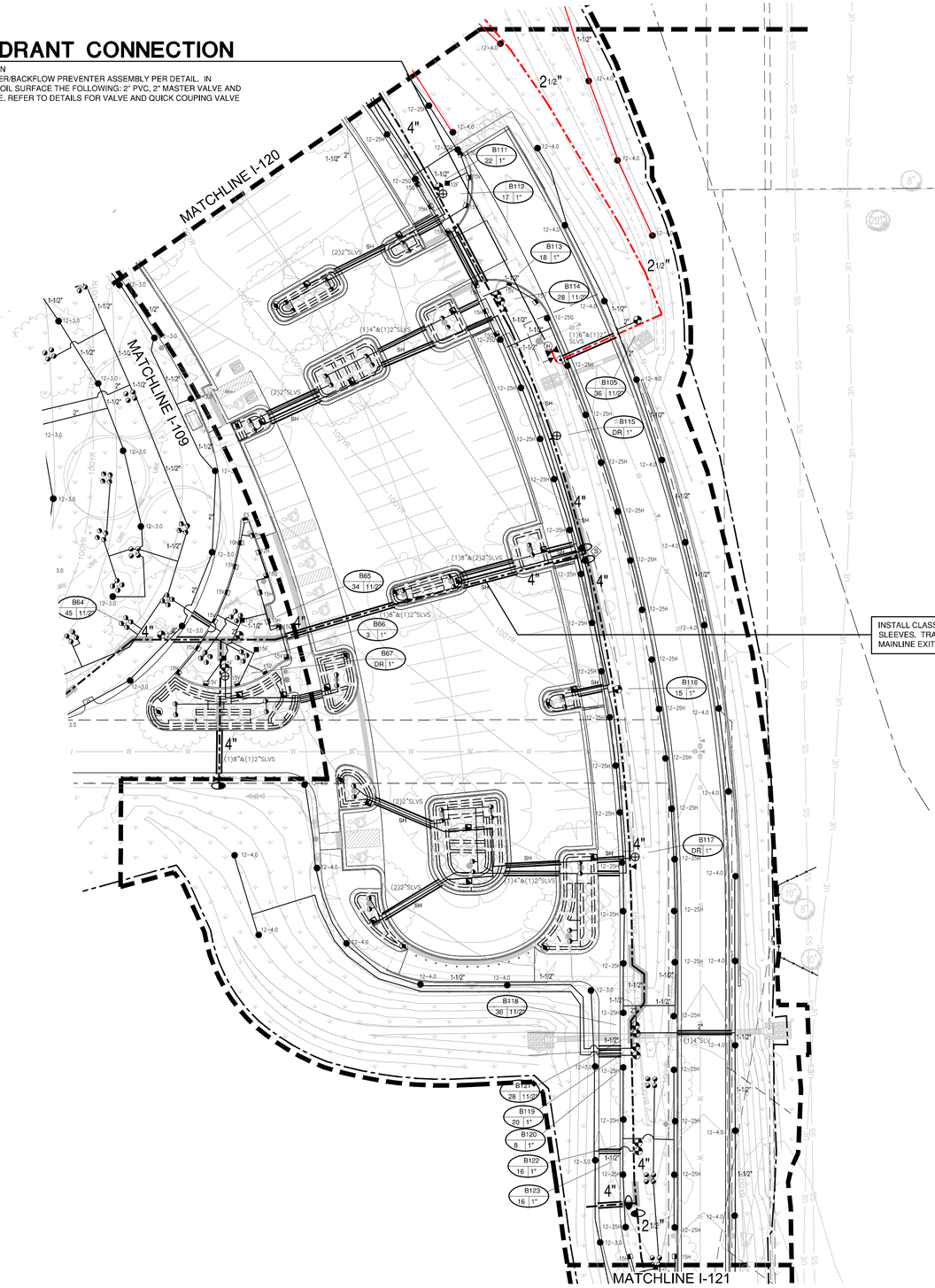
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE TESTS, & PRINT ECONOMICS

FIRE HYDRANT CONNECTION

TEMPORARY IRRIGATION
INSTALL HYDRANT METER/BACKFLOW PREVENTER ASSEMBLY PER DETAIL. IN ADDITION INSTALL OF SOIL SURFACE THE FOLLOWING: 2" PVC, 2" MASTER VALVE AND QUICK COUPLING VALVE. REFER TO DETAILS FOR VALVE AND QUICK COUPING VALVE INSTALLATION.



INSTALL CLASS 200 SOLVENT WELD MAINLINE THRU ALL ROAD/VEHICULAR SLEEVES. TRANSITION TO CLASS 200 GASKETED PIPING 10 FT. FROM MAINLINE EXIT POINTS FROM SLEEVES (TYP.)

A1 PARKING - AREA E IRRIGATION ENLARGEMENT

1" = 30'-0"

SCALE: 1" = 30'-0"
0' 15' 30' 60' 90'

Avocet IRRIGATION DESIGN
11757 W. KEN CARYL AVE., SUITE F-508
LITTLETON, COLORADO 80127
303-562-5698
avocet@wispertel.net

811 Know what's below Call before you dig.

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Town of Parker, Director of Engineering — Date

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Denver, CO 80202
p. 303.607.0977

CIVIL ENGINEER / STRUCTURAL ENGINEER
JVA Incorporated
1672 Lamner Street, #500
Denver, CO 80202
p. 303.444.1951

ELECTRICAL ENGINEER
Ackerman Engineering, Inc.
3000 Youngfield Street, #264
Wheat Ridge, CO 80215
p. 303.278.7297

IRRIGATION
Avocet Irrigation
11757 W. Ken Caryl Ave., Suite F-509
Littleton, CO 80127
p. 303.986.2175

MECHANICAL ENGINEER
ENVISION Mechanical Engineers, Inc.
9777 Pyramid Court, #260
Englewood, CO 80112
p. 303.688.0223

Town of Parker
SALISBURY REGIONAL PARK - PHASE 1
11700 MOTSENBOCKER RD
PARKER, CO 80134

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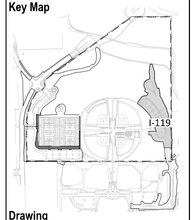
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

	DATE	DESCRIPTION
		SCALE: 1" = 30'-0"

Project Number:	223072.00
Sheet Issue Date:	2025-05-02
Drawn By:	DZ
Checked By:	DZ

Key Map



Drawing

PARKING - AREA E IRRIGATION ENLARGEMENT

I-119

SITE PLAN SUBMITTAL

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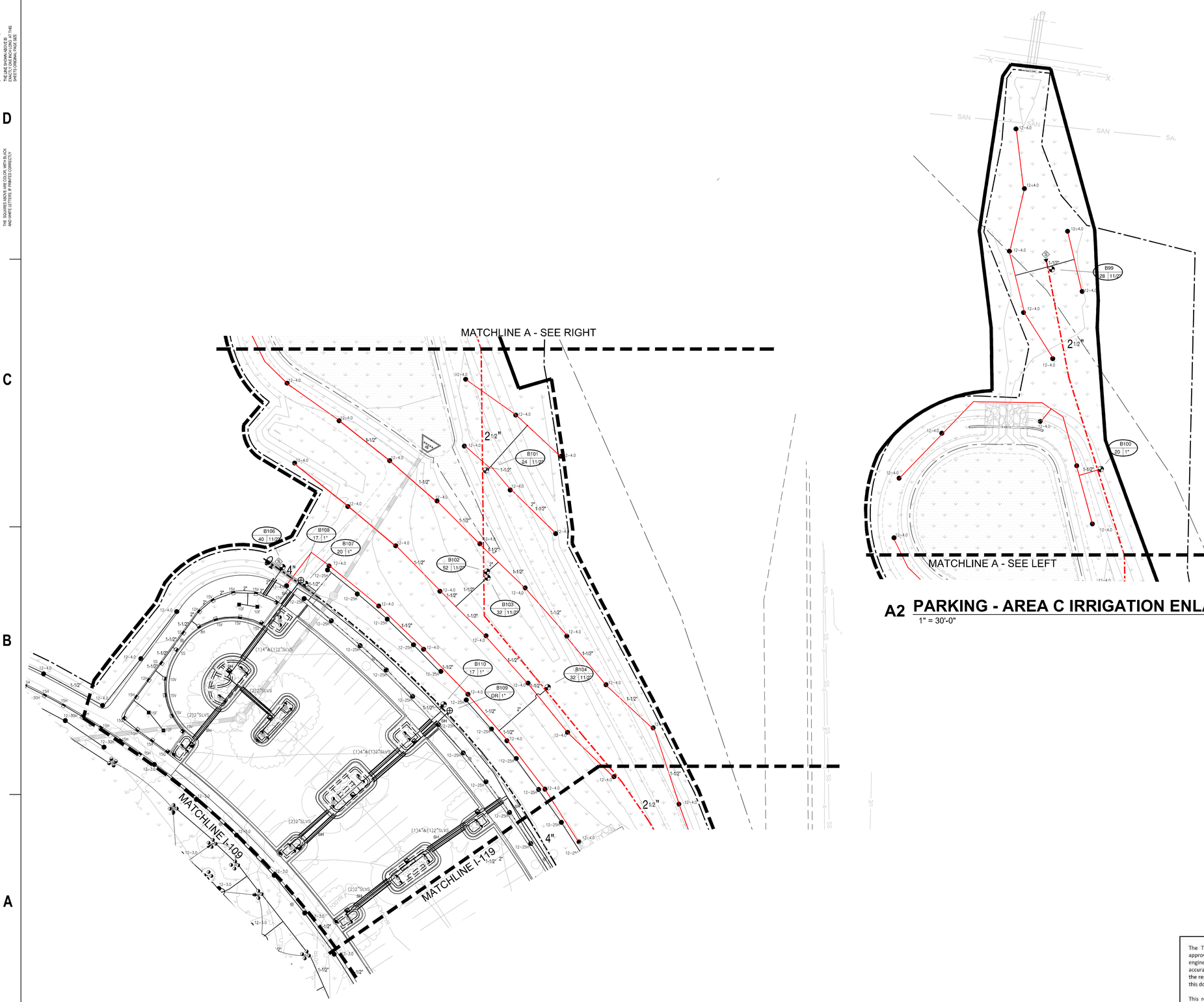

A1 **PARKING - AREA E IRRIGATION ENLARGEMENT**
1" = 30'-0"

SCALE: 1" = 30'-0"
0' 15' 30' 60' 90'

A2 **PARKING - AREA C IRRIGATION ENLARGEMENT**
1" = 30'-0"

0' 15' 30' 60' 90'

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ARCHITECTURE
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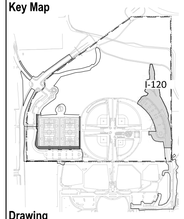

Drawing
PARKING - AREA E IRRIGATION ENLARGEMENT

I-120

SITE PLAN SUBMITTAL

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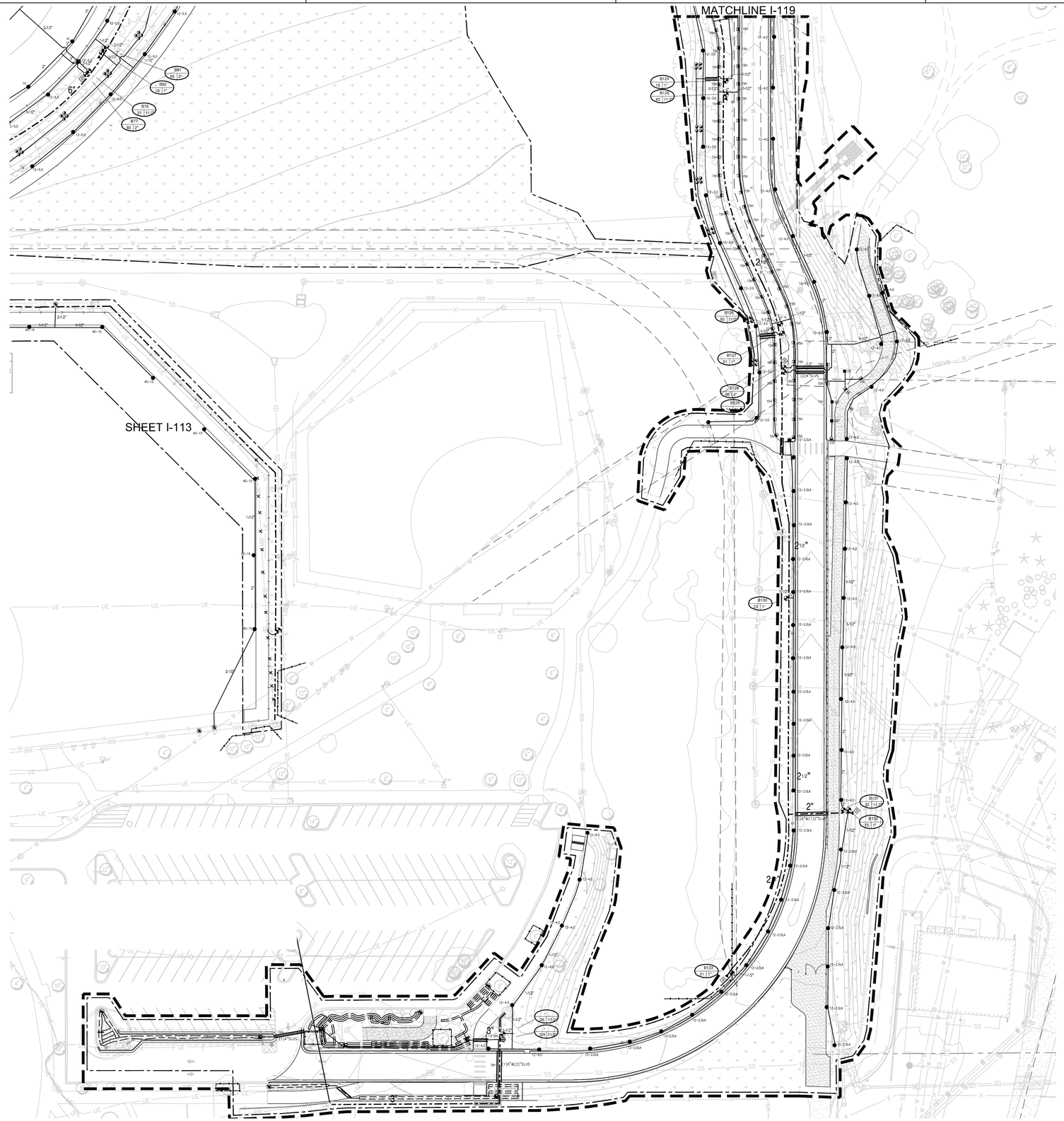
MATCHLINE I-119

SHEET I-113



A1 PARKING - AREA F IRRIGATION ENLARGEMENT

1" = 40'-0"

SCALE: 1" = 40'-0"

0' 20' 40' 80' 120'

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LANDSCAPE ARCHITECTURE

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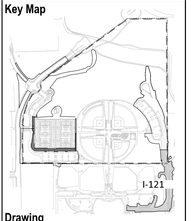

Drawing

PARKING - AREA F IRRIGATION ENLARGEMENT

I-121

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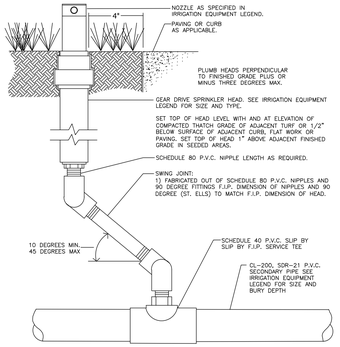
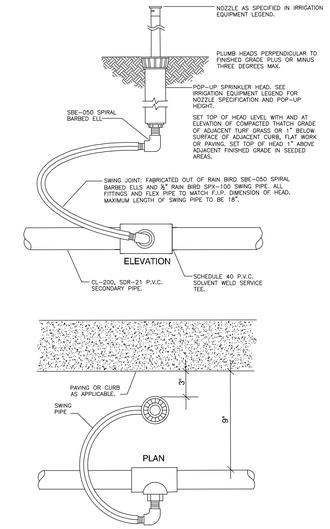
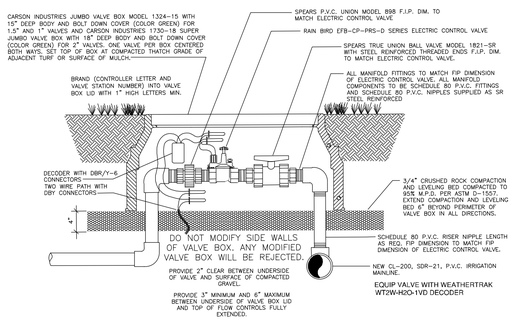


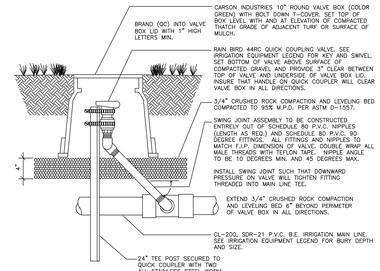
GEAR DRIVEN ROTOR 1



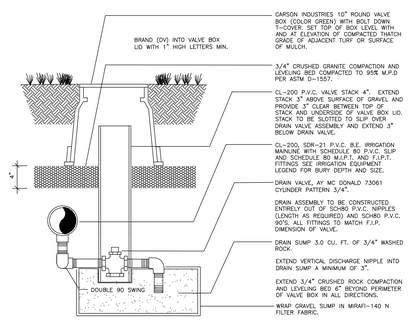
POP-UP SPRAY HEAD 2



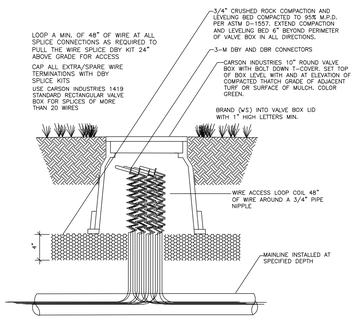
ELECTRIC CONTROL VALVE 3



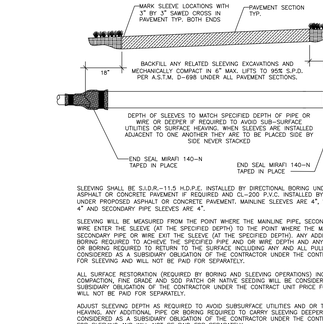
QUICK COUPLING VALVE 4



MANUAL DRAIN VALVE 5



WIRE SPLICES 6



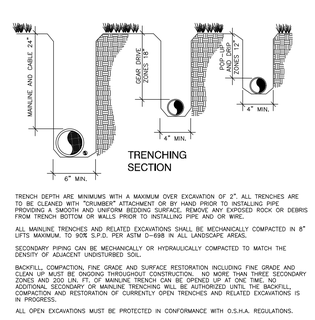
SLEEVING SHALL BE S.I.D.R.-11.5 H.D.P.E. INSTALLED BY DIRECTIONAL BORING UNDER EXISTING ASPHALT OR CONCRETE PAVEMENT. IF REQUIRED AND CL-200 P.V.C. INSTALLED BY OPEN TRENCHING UNDER PROPOSED ASPHALT OR CONCRETE PAVEMENT. MAINLINE SLEEVES ARE 4", WIRE SLEEVES ARE 4" AND SECONDARY PIPE SLEEVES ARE 4".

SLEEVING WILL BE MEASURED FROM THE POINT WHERE THE MAINLINE PIPE, SECONDARY PIPE OR WIRE ENTER THE SLEEVE (AT THE SPECIFIED DEPTH) TO THE POINT WHERE THE MAINLINE PIPE, SECONDARY PIPE OR WIRE EXIT THE SLEEVE (AT THE SPECIFIED DEPTH). ANY ADDITIONAL PIPE OR BORING REQUIRED TO ACHIEVE THE SPECIFIED PIPE AND OR WIRE DEPTH AND ANY ADDITIONAL PIPE OR BORING REQUIRED TO RETURN TO THE SURFACE INCLUDING ANY AND ALL PULL PIPE WILL BE CONSIDERED AS A SUBSIDIARY OBLIGATION OF THE CONTRACTOR UNDER THE CONTRACT UNIT PRICE FOR SLEEVING AND WILL NOT BE PAID FOR SEPARATELY.

ALL SURFACE RESTORATION (REQUIRED BY BORING AND SLEEVING OPERATIONS) INCLUDING BACKFILL, COMPACTION, FINE GRADE AND SOD, PATCH OR NATIVE SEEDING WILL BE CONSIDERED AS A SUBSIDIARY OBLIGATION OF THE CONTRACTOR UNDER THE CONTRACT UNIT PRICE FOR SLEEVING AND WILL NOT BE PAID FOR SEPARATELY.

ADJUST SLEEVING DEPTH AS REQUIRED TO AVOID SUBSURFACE UTILITIES AND OR TO AVOID SURFACE HEAVING. ANY ADDITIONAL PIPE OR BORING REQUIRED TO CARRY SLEEVING DEEPER WILL BE CONSIDERED AS A SUBSIDIARY OBLIGATION OF THE CONTRACTOR UNDER THE CONTRACT UNIT PRICE FOR SLEEVING AND WILL NOT BE PAID FOR SEPARATELY.

IRRIGATION SLEEVING 7



TRENCH DEPTH ARE MINIMUMS WITH A MAXIMUM OVER EXCAVATION OF 2". ALL TRENCHES ARE TO BE CLEANED WITH "CRUMBER" ATTACHMENT OR BY HAND PRIOR TO INSTALLING PIPE PROVIDING A SMOOTH AND UNIFORM BEDDING SURFACE. REMOVE ANY EXPOSED ROCK OR DEBRIS FROM TRENCH BOTTOM OR WALLS PRIOR TO INSTALLING PIPE AND OR WIRE.

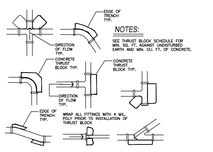
ALL MAINLINE TRENCHES AND RELATED EXCAVATIONS SHALL BE MECHANICALLY COMPACTED IN 8" LIFTS MAXIMUM. TO 90% S.P.D. PER ASTM D-698 IN ALL LANDSCAPE AREAS.

SECONDARY PIPING CAN BE MECHANICALLY OR HYDRAULICALLY COMPACTED TO MATCH THE DENSITY OF ADJACENT UNDISTURBED SOIL.

BACKFILL, COMPACTION, FINE GRADE AND SURFACE RESTORATION INCLUDING FINE GRADE AND CLEAN UP MUST BE ONGOING THROUGHOUT CONSTRUCTION. NO MORE THAN THREE SECONDARY ZONES AND 200 LIN. FT. OF MAINLINE TRENCH CAN BE OPENED UP AT ONE TIME. NO ADDITIONAL SECONDARY OR MAINLINE TRENCHING WILL BE AUTHORIZED UNTIL THE BACKFILL, COMPACTION, AND RESTORATION OF CURRENTLY OPEN TRENCHES AND RELATED EXCAVATIONS IS IN PROGRESS.

ALL OPEN EXCAVATIONS MUST BE PROTECTED IN CONFORMANCE WITH O.S.H.A. REGULATIONS.

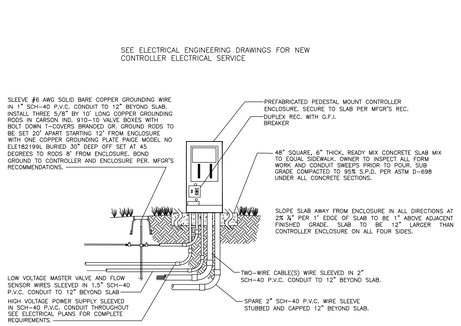
TRENCHES 8



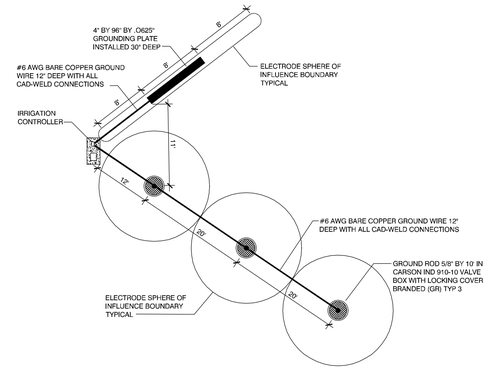
THRUST BLOCK CONFIGURATION DETAIL

MAIN LINE THRUST BLOCK SURFACE AREA AGAINST UNDISTURBED EARTH IN SQ. FT., AND TOTAL CONCRETE VOLUME IN CU. FT. Assumes an estimated soil bearing strength of 1,000 lbs/sq. ft.					
FITTING SIZE	90 DEGREE	45 DEGREE	22.5 DEGREE	11.25 DEGREE	TEE OR CAP
2.5" & SMALLER	2 SQ. FT. 4 CU. FT.	1 SQ. FT. 2 CU. FT.	1 SQ. FT. 2 CU. FT.	1 SQ. FT. 2 CU. FT.	2 SQ. FT. 4 CU. FT.
3" & LARGER	4 SQ. FT. 8 CU. FT.	2 SQ. FT. 4 CU. FT.	2 SQ. FT. 4 CU. FT.	2 SQ. FT. 4 CU. FT.	4 SQ. FT. 8 CU. FT.
INSTALLATION NOTES: CONCRETE TO BE 3,500 P.S.I. MIN. INSTALL BOND BREAKER AROUND PIPE AND FITTING PRIOR TO POUR. DO NOT POUR CONCRETE ON TOP OF PIPE.					

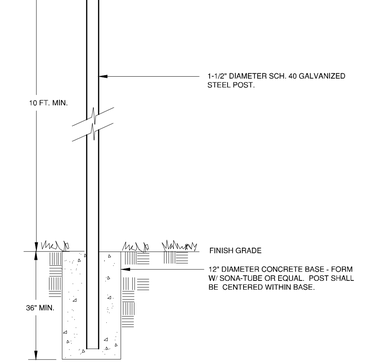
THRUST BLOCKING 9



ELECTRIC CONTROLLER 10



CONTROLLER GROUNDING 11



RAIN/FREEZE SENSOR 12

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LANDSCAPE ARCHITECTURE

PLANNING

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Checked By:	DZ

Key Map

Drawing

IRRIGATION DETAILS

I-122

SITE PLAN SUBMITTAL
Page 246 of 313

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C M Y

D

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B

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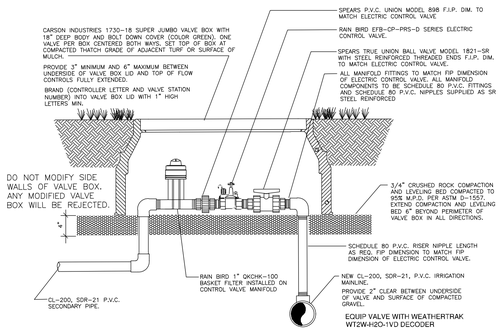
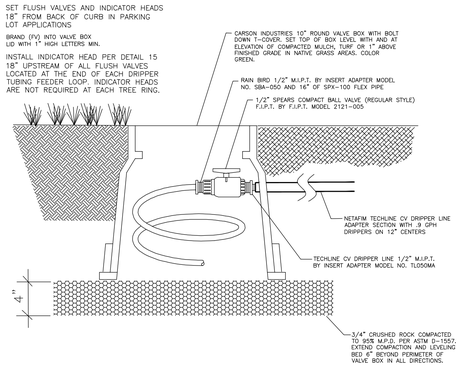
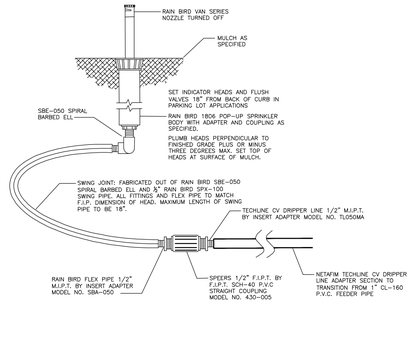


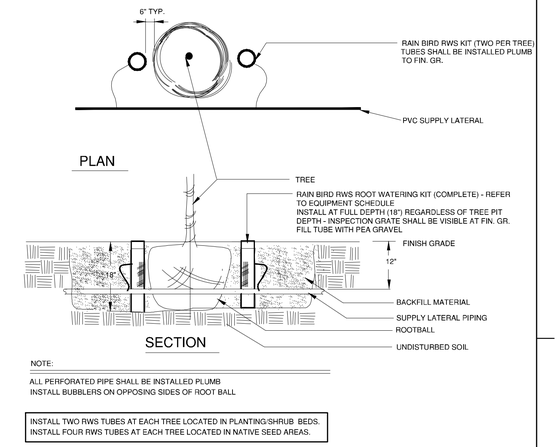
DRIP VALVE ASSEMBLY — 13



IN-LINE DRIP FLUSH-OUT — 14



IN-LINE DRIP OPERATIONAL INDICATOR HEAD — 15



NOTE:

ALL PERFORATED PIPE SHALL BE INSTALLED PLUMB
INSTALL BUBBLERS ON OPPOSING SIDES OF ROOT BALL

INSTALL TWO RWS TUBES AT EACH TREE LOCATED IN PLANTING/SHRUB BEDS.
INSTALL FOUR RWS TUBES AT EACH TREE LOCATED IN NATIVE SEED AREAS.

ROOT WATERING SYSTEM — 16

DETAIL APPLIES TO ALL TREES

DRIPPERLINE SHALL BE WATER TESTED IN PRESENCE OF TOWN OF PARKER REP. PRIOR TO PLACEMENT OF WEED FABRIC AND MULCH

INSTALL TUBING WITH EMITTERS IN TRIANGULATED PATTERN BETWEEN ROWS OF TUBING

IN-LINE DRIP SAMPLE LAY-OUT — 17

NOTES:
1. SEE PLANS & LEGEND FOR ALL DIMENSIONS AND DRIPPERLINE LATERAL SPACING
2. RATIO OF Techline LATERALS TO START CONNECTIONS IS SHOWN AT 2:1, BUT MAY VARY PER HYDRAULIC DEMAND ON START CONNECTION.

NO SCALE

DRIPPERLINE PIPE LAY-OUT ISOMETRIC VIEW — 18

IN-LINE DRIP CONNECTION — 19

DRIPPERLINE SHALL BE INSTALLED UNDER WEED BARRIER FABRIC

DRIPPERLINE LAY-OUT SHALL BE REVIEWED AND APPROVED BY TOWN STAFF PRIOR TO PLACEMENT OF WEED BARRIER FABRIC

SURFACE IN-LINE DRIP TUBING — 20

AIR/VACUUM RELEASE VALVE — 21

APPLY NON-HARDENING THREAD SEALANT CONTAINING NO PETROLEUM DISTILLATES TO ALL MALE-THREADED FITTINGS (SPEARS BLUE 75 OR EQUAL)

GATE VALVE - 2" AND 2-1/2" DIA. — 22

GATE VALVE - 3" DIA. and LARGER — 23

BFP MODEL/SIZE	ENCLOSURE MODEL	X	Y
FEBCO 860 LARGE - 4"	SBBC-90ALIHP	90"	114"

PAD PENETRATIONS TO BE 1" LARGER THAN PIPE DIAMETER.
PROVIDE OWNER WITH KEYED PADLOCK FOR ENCLOSURE
TOP OF CONCRETE PAD SHALL BE 1" ABOVE FINISH GRADE

BACKFLOW ENCLOSURE — 24

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ENVISION Mechanical Engineers, Inc.
9777 Pyramid Court, #260
Englewood, CO 80112
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Town of Parker
SALISBURY PARK NORTH - PHASE 1
11700 MOTSENBOCKER RD
PARKER, CO 80134

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

	DATE	DESCRIPTION

Project Number: 223072.00
Sheet Issue Date: 2025-05-02
Drawn By: DZ
Checked By: DZ

Key Map

Drawing
IRRIGATION DETAILS

I-123

SITE PLAN SUBMITTAL
Page 247 of 313

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THE LINE SHOWN ABOVE IS 1" LONG ON ORIGINAL DRAWING. IF NOT THIS SHEETS ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR WITH THE NEXT TO LETTER, PRINTED CORRECTLY

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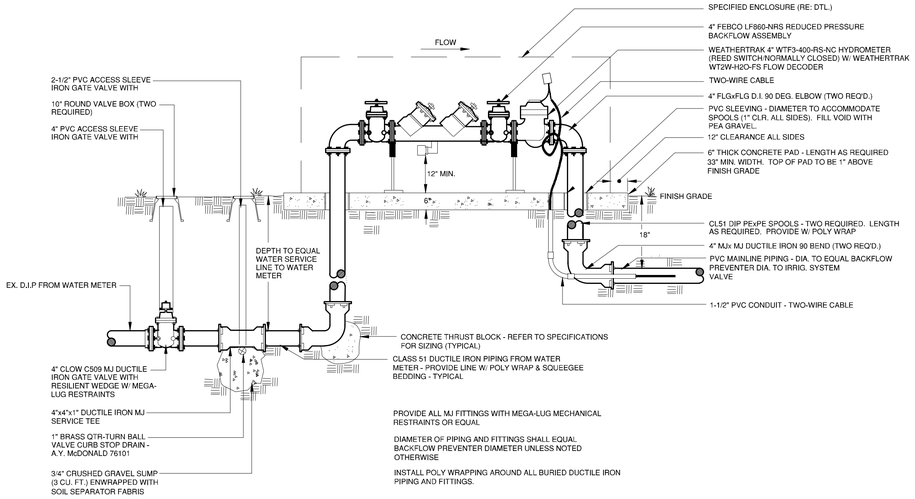
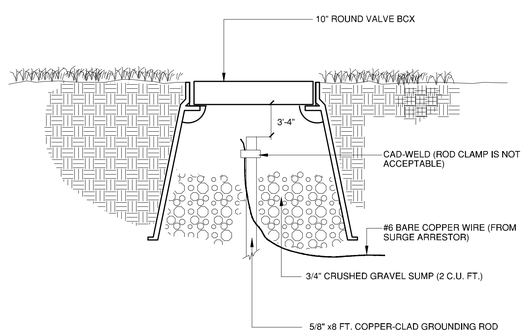


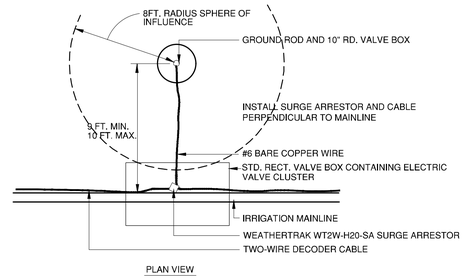
BACKFLOW PREVENTER

25



GROUND ROD SHALL BE INSTALLEDAT LOCATION PERPENDICULAR TO MAINLINE. GROUND SHALL BE LOCATED 9 FT. FROM MAINLINE TRENCH

GROUND ROD SHALL LOCATED SUCH THAT MAINLINE, TWO-WIRE CABLE AND VALVE DECODERS LIE OUTSIDE OF SPHERE OF INFLUENCE (TYP. ALL LOCATIONS)



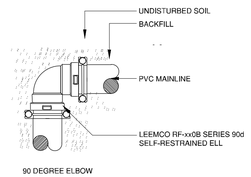
PLAN VIEW

TWO-WIRE SURGE ARRESTOR

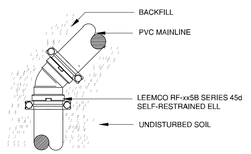
26

MECHANICAL MAINLINE PIPE RESTRAINTS

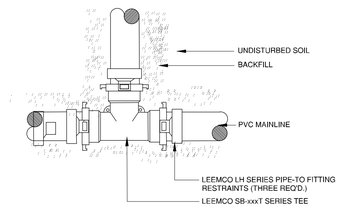
INDICATES MAINLINE PIPING TO BE SECURED VIA MECHANICAL PIPE RESTRAINTS. ALL PIPE-TO-PIPE JOINTS, FITTINGS (I.E. CHANGES IN DIRECTION), SERVICES TEES AND/OR GATE VALVES THAT FALL WITHIN INDICATED DISTANCE SHALL BE RESTRAINED. REFER TO DETAILS. RESTRAINTS SHALL BE MANUFACTURED BY LEEMCO. ALL DISTANCES SHOWN BELOW ARE TYPICAL.



90 DEGREE ELBOW

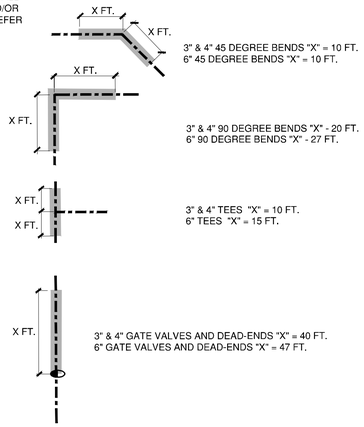


45 DEGREE ELBOW



STRAIGHT TEE

INSTALL FITTINGS PER LEEMCO DIRECTIONS INCLUDING USE OF TORQUE WRENCH FOR RESTRAINTS



MAINLINE FITTINGS 2 1/2" DA. and LARGER

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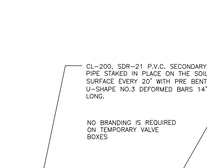

ELECTRIC CONTROL VALVE

TEMPORARY IRRIGATION

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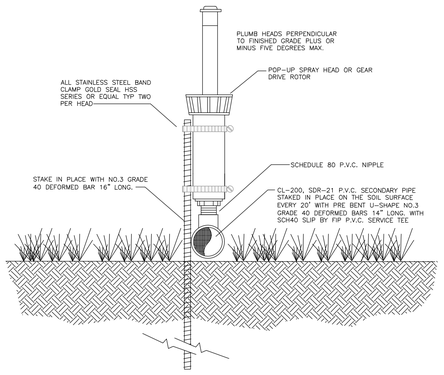

ON-GRADE SPRAY HEAD OR ROTOR

TEMPORARY IRRIGATION

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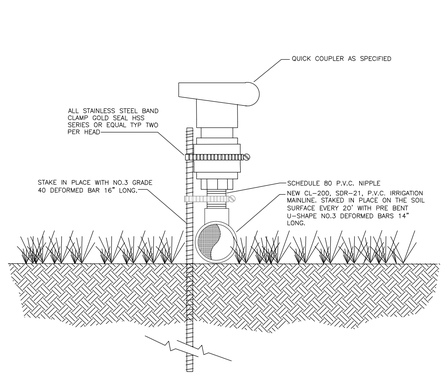
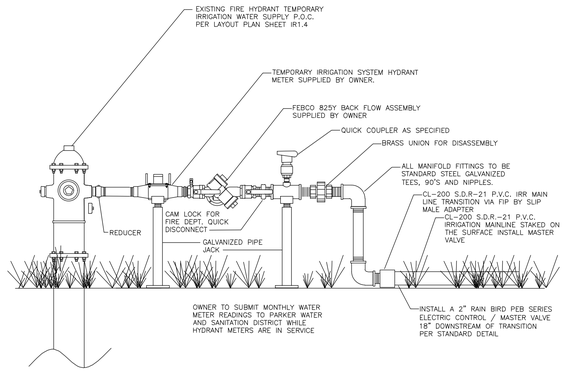


QUICK COUPLING VALVE

TEMPORARY IRRIGATION

30



FIRE HYDRANT CONNECTION

TEMPORARY IRRIGATION

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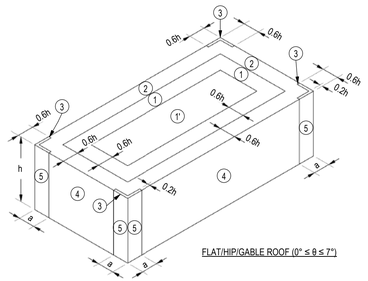
STRUCTURAL GENERAL NOTES

DESIGN LOADS:

1. DESIGN LOADS: 2021 INTERNATIONAL BUILDING CODE WITH TOWN OF PARKER AMENDMENTS, ASCE 7-16
2. RISK CATEGORY: II STANDARD
3. ROOFS:
   - A. ROOF DEAD LOAD 25 PSF
   - B. ROOF LIVE LOAD 20 PSF
   - C. GROUND SNOW LOAD, Pg 30 PSF
   - D. FLAT-ROOF SNOW LOAD, Pf 30 PSF
   - E. SNOW EXPOSURE FACTOR, Ce 1.0
   - F. SNOW IMPORTANCE FACTOR, Is 1.0
   - G. THERMAL FACTOR, Ct 1.2 OPEN-AIR STRUCTURES
   - H. THERMAL FACTOR, CT 1.0 HEATED STRUCTURES
4. FLOOR LIVE LOADS:

OCCUPANCY OR USE	UNIFORMLY DISTRIBUTED (PSF)	CONCENTRATED LOAD (LBS)	LIVE LOAD REDUCTION
PUBLIC SPACES	100	2,000	NO
STORAGE AREAS	125	N/A	NO
RETAIL STORES FIRST FLOOR	100	1,000	YES

5. WIND:
   - A. BASIC DESIGN WIND SPEED, V_{ULT}, (3-SECOND GUST) 115 MPH
   - B. INTERNAL PRESSURE COEFFICIENT 0.18 (ENCLOSED)
   - C. WIND EXPOSURE C
   - D. GROUND ELEVATION FACTOR 0.81
   - E. COMPONENTS AND CLADDING ULTIMATE DESIGN WIND PRESSURES
     1. PRESSURES MAY BE REDUCED FOR EFFECTIVE WIND AREAS LARGER THAN 10 SQUARE FEET, BUT NOT BELOW 16 PSF.
     2. ALLOWABLE WIND PRESSURE (ASD) MAY BE DETERMINED BY MULTIPLYING THE ULTIMATE PRESSURE BY 0.6.



FLAT/HIP/GABLE ROOF (0° ≤ θ ≤ 7°)

COMPONENT AND CLADDING ULTIMATE WIND PRESSURE - FLAT ROOF		
ROOF (EFFECTIVE WIND AREA)	ROOF SURFACE PRESSURE (psf)	
	10 sf	100 sf
Negative Zone 1	-56.6	-42.0
Negative Zone 1'	-32.5	-29.9
Negative Zone 2	-74.7	-55.9
Negative Zone 3	-101.7	-64.2
Positive all Zones	16.0	16.0
Overhang Zone 1 & 1'	-51.2	-43.6
Overhang Zone 2	-69.2	-44.2
Overhang Zone 3	-96.3	-52.6

WALL (EFFECTIVE WIND AREA)	WALL SURFACE PRESSURE (psf)	
	10 sf	100 sf
Negative Zone 4	-33.8	-31.7
Negative Zone 5	-40.5	-36.3
Positive Zone 4 & 5	31.1	29.0

6. SEISMIC:
   - A. SPECTRAL RESPONSE ACCELERATION PARAMETERS
     1. SHORT PERIOD
        - a. S_S 0.202g
        - b. S_{DS} 0.216g
     2. ONE SECOND
        - a. S_1 0.056g
        - b. S_{D1} 0.090g
   - B. SOILS SITE CLASS D
   - C. SEISMIC IMPORTANCE FACTOR 1.0
   - D. SEISMIC DESIGN CATEGORY B
   - E. BASIC SEISMIC-FORCE-RESISTING SYSTEM(S)
     - INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
     - STEEL ORDINARY MOMENT FRAMES
   - F. DESIGN BASE SHEAR(S)
     - a. HEADQUARTERS & RESTROOM 10.9 KIP
     - b. COMMUNITY HUB PAVILION CANOPY 6.7 KIP
     - c. COMMUNITY HUB MASONRY 8.7 KIP
   - G. SEISMIC RESPONSE COEFFICIENT(S), C_S
     - a. HEADQUARTERS & RESTROOM 0.108
     - b. COMMUNITY HUB PAVILION CANOPY 0.072
     - c. COMMUNITY HUB MASONRY 0.108
   - H. RESPONSE MODIFICATION COEFFICIENT(S), R
     - a. HEADQUARTERS & RESTROOM 2
     - b. COMMUNITY HUB PAVILION CANOPY 3
     - c. COMMUNITY HUB MASONRY 2
   - I. ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE

FOUNDATION DESIGN:

1. REFER TO SOILS REPORT NO. 502725001 BY NINYO & MOORE, DATED 11-10-2023.
2. GEOTECHNICAL ENGINEER SHALL VERIFY SOIL CONDITIONS AND TYPES DURING EXCAVATION AND PRIOR TO PLACEMENT OF FORMWORK OR CONCRETE. OVER-EXCAVATE BENEATH SLAB-ON-GRADE TO A DEPTH OF AT LEAST 3 FEET BELOW THE PROPOSED SLAB AND REPLACE WITH MOISTURE-CONDITIONED, PROPERLY COMPACTED ENGINEERED FILL.
3. MINIMUM FROST DEPTH SHALL BE 3'-0 BELOW EXTERIOR GRADE.

FOOTINGS:

1. DESIGN OF FOOTINGS IS BASED ON
   - A. MAXIMUM ALLOWABLE BEARING PRESSURE 3000 PSF
2. BEAR ON 2 FEET OF OVER-EXCAVATED SOIL REPLACED WITH MOISTURE-CONDITIONED COMPACTED FILL. ON-SITE SOILS ARE ACCEPTABLE AS ENGINEERED FILL IF THEY ARE FREE OF ORGANIC MATERIALS. OVER-EXCAVATIONS BENEATH BOTTOM OF FOUNDATIONS SHALL EXTEND LATERALLY BEYOND THE EDGES OF THE FOUNDATIONS AT LEAST 8 INCHES PER FOOT OVER THE EXCAVATION DEPTH BELOW THE FOUNDATION BASE ELEVATION. EXTERIOR FOOTINGS SHALL BEAR BELOW FROST DEPTH.

EARTH RETAINING STRUCTURES:

1. EARTH EQUIVALENT FLUID LATERAL PRESSURE:
   - A. WALLS RESTRAINED AT TOP (AT REST) 64 PCF
   - B. CANTILEVERED WALLS (ACTIVE) 45 PCF
   - C. PASSIVE RESISTING 271 PCF
2. COEFFICIENT OF SLIDING FRICTION 0.35

REINFORCED CONCRETE:

1. DESIGN IS BASED ON ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
2. CONCRETE WORK SHALL CONFORM TO ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE."
3. STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

INTENDED USE	EXPOSURE CLASS	f'c, PSI 28 DAYS	MAX W/CM RATIO	MAXIMUM AGGREGATE	SLUMP, INCHES (+/- 1")	AIR CONTENT PERCENT (+/- 1.5%)	CEMENT TYPE	ADMIXTURES / COMMENTS
FOOTINGS	F0-S0-W0-C1	3000	0.52	3/4" STONE	5	N/A	I/II	
STEM WALLS	F2-S0-W0-C1	4500	0.45	3/4" STONE	4	6%	I/II	
INTERIOR SLAB ON GRADE	F0-S0-W0-C0	4000	0.45	3/4" STONE	4	N/P	I/II	
EXTERIOR SLAB ON GRADE	F3-S0-W0-C2	5000	0.40	3/4" STONE	4	6%	I/II	25% MAX FLY ASH

4. CONCRETE MIX TABLE NOTES:
   - A. SLUMP VALUES INDICATED ARE SUGGESTED BASED ON USE AND TYPICAL PLACEMENT METHODS. CONTRACTOR MAY ADJUST SLUMP AS NECESSARY FOR FIELD CONDITIONS AND INSTALLATION METHOD USED PROVIDED REMAINING REQUIREMENTS ARE MET.
   - B. AIR CONTENT:
     - a. N/P: AIR ENTRAINING ADMIXTURES NOT PERMITTED, ENTRAPPED AIR ONLY
     - b. N/A: NOT APPLICABLE, NO STRUCTURAL AIR CONTENT REQUIREMENTS
   - C. SHRINKAGE STRAIN: MIXES NOTED AS "SHRINKAGE XX%" SHALL BE LIMITED TO A MAXIMUM DRYING SHRINKAGE (0.05% UNLESS NOTED OTHERWISE) AT 28 DAYS (500 MICROSTRAIN) AS MEASURED BY ASTM C157. SHRINKAGE TEST RESULTS TO BE INCLUDED WITH MIX DESIGN SUBMITTAL.
   - D. GENERAL CONTRACTOR TO COORDINATE CONCRETE MOISTURE LEVEL AND ANTICIPATED MOISTURE MITIGATION PROCEDURES WITH CONCRETE SUPPLIER/MIX DESIGNER AND OTHER AFFECTED SUBCONTRACTORS (INCLUDING BUT NOT LIMITED TO FLOORING) TO ADDRESS ALL POTENTIAL SCHEDULE AND INSTALLATION CONFLICTS.
5. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
6. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT BARS SHOWN TO BE FIELD-BENT SHALL BE ASTM A706, GRADE 60.
7. BARS TO BE WELDED SHALL CONFORM TO ASTM A706.
8. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, LAP BARS PER THE CONCRETE LAP SPLICE SCHEDULE.
9. AT CORNERS AND INTERSECTIONS, MAKE HORIZONTAL BARS CONTINUOUS OR PROVIDE MATCHING CORNER BARS FOR EACH LAYER OF REINFORCEMENT.
10. TRIM OPENINGS IN WALLS AND SLABS WITH (2) #5 FOR EACH LAYER OF REINFORCEMENT, FULLY DEVELOPED BY EXTENSION OR HOOK.
11. IN CONTINUOUS MEMBERS, SPLICE TOP BARS AT MID-SPAN AND SPLICE BOTTOM BARS OVER SUPPORTS.
12. FORM INTERMITTENT SHEAR KEYS AT ALL CONSTRUCTION JOINTS AND AS SHOWN ON THE STRUCTURAL DRAWINGS.
13. EXCEPT AS NOTED ON THE DRAWINGS, CONCRETE PROTECTION FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
    - A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
    - B. EXPOSED TO EARTH OR WEATHER:
      1. #6 THROUGH #18 BARS 2"
      2. #5 BAR, W31 OR D31 WIRE, AND SMALLER 1-1/2"
    - C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      1. SLABS, WALLS, JOISTS: #11 BARS AND SMALLER 3/4"
      2. BEAMS AND COLUMNS:
         - a. PRIMARY REINFORCEMENT 1-1/2"
         - b. STIRRUPS, TIES, SPIRALS 1-1/2"
14. ANCHOR BOLTS AND RODS FOR BEAM AND COLUMN-BEARING PLATES SHALL BE PLACED WITH SETTING TEMPLATES.

STRUCTURAL MASONRY:

1. GENERAL CONTRACTOR SHALL HOLD A MASONRY PRECONSTRUCTION MEETING AT THE PROJECT SITE WITH REPRESENTATION FROM THE GC, MASON, TESTING AGENCY AND STRUCTURAL ENGINEER.
2. GENERAL CONTRACTOR SHALL SUBMIT COORDINATED ELEVATION DRAWINGS FOR REVIEW OF ALL MASONRY WALLS SHOWING:
   - A. ALL CONTROL JOINTS, BOND BEAMS, BEAM AND JOIST POCKETS, AND OPENINGS INCLUDING MECHANICAL AND PLUMBING PENETRATIONS GREATER THAN 3" IN ANY DIMENSION.
   - B. TYPICAL WALL REINFORCING
   - C. ADDITIONAL WALL REINFORCING AT MASONRY LINTELS, JAMBS, OPENINGS, AND AS NOTED ON STRUCTURAL DRAWINGS.
3. DESIGN IS BASED ON ACI 530/ASCE 5/TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
4. 28-DAY COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY USED FOR DESIGN IS 2,000 PSI, BASED ON NET-BEDDED AREA.
5. MASONRY LINTELS SHALL USE STANDARD LINTEL UNITS. BOND BEAMS SHALL USE UNITS PRODUCED FROM STANDARD VERTICALLY VOIDED UNITS WITH PRE-CUT KNOCKOUT CROSS WALLS.
6. HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS (CMU) SHALL BE LIGHTWEIGHT, 105 PCF DENSITY, CONFORMING TO ASTM C90, WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,000 PSI BASED ON AVERAGE NET AREA.
7. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270.
8. MASONRY CEMENT SHALL NOT BE USED UNLESS PART OF A PRE-PACKAGED MORTAR OR GROUT MIX APPROVED BY THE STRUCTURAL ENGINEER.
9. ADMIXTURES SHALL NOT BE USED UNLESS APPROVED BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
10. GROUT USED IN MASONRY WALLS AND BLOCK CELLS SHALL BE COARSE GROUT, AS DEFINED BY ARTICLE 2.2 OF TMS 602/ACI530.1/ASCE 6, WITH A MINIMUM CUBE STRENGTH = 2,000 PSI OR 3,000 PSI CONCRETE USING 3/8" DIAMETER AGGREGATE AND PLACED BY VIBRATING UNLESS AN APPROVED SELF-CONSOLIDATING MIX IS USED.
11. PLACEMENT OF MORTAR, GROUT, MASONRY UNITS AND WALL TIES SHALL COMPLY WITH TMS 602 / ACI 530.1 / ASCE 6.
12. PROVIDE MORTAR FOR FULL THICKNESS OF SHELL IN ALL HEAD AND BED JOINTS.
13. "LOW-LIFT" GROUTING SHALL NOT EXCEED 5 FEET IN HEIGHT UNLESS ACI 530.1 "HIGH-LIFT" GROUTING PROCEDURES ARE REVIEWED AND APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
14. VERTICALLY SPACE CONTINUOUS HORIZONTAL JOINT REINFORCING AT 16" MAXIMUM IN ALL CMU WALLS. JOINT REINFORCING SHALL BE WELDED TYPE WITH 9 GAGE SIDE RODS AND 9 GAGE LADDER CROSS RODS. IN EXTERIOR WALLS, JOINT REINFORCEMENT SHALL BE STAINLESS STEEL OR HOT-DIP GALVANIZED. ALL OTHER JOINT REINFORCEMENT SHALL BE MILL GALVANIZED, HOT-DIP GALVANIZED, OR STAINLESS STEEL.
15. REINFORCING BARS SHALL HAVE MATERIAL PROPERTIES AS SPECIFIED FOR REINFORCED CONCRETE. LAP BARS PER THE LAP SPLICE SCHEDULE (48 DIAMETERS MINIMUM) UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS.
16. REINFORCEMENT SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING BY WIRE BAR LOCATORS OR OTHER SUITABLE DEVICES AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS OR 10 FEET.
17. REINFORCE AND GROUT VERTICAL CELLS AT CORNERS, ENDS OF WALLS, JAMBS OF OPENINGS, EACH SIDE OF VERTICAL CONTROL JOINTS, AND AT SPACING SHOWN ON DRAWINGS.
18. WHERE NOTED ON THE DRAWINGS, PROVIDE CLEARANCE BETWEEN MASONRY AND STRUCTURAL ELEMENTS, OR WRAP STEEL WITH POLYETHYLENE FILM.
19. LOCATE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS AS SHOWN ON THE ARCHITECTURAL DRAWINGS, STRUCTURAL DRAWINGS, OR SPACED HORIZONTALLY AT 25'-0 MAXIMUM SPACING WHERE NOT SHOWN.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 360) AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (AISC 303) BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
2. STRUCTURAL STEEL WIDE FLANGE BEAMS AND WTS SHALL CONFORM TO ASTM A992, 50 KSI YIELD.
3. OTHER ROLLED SHAPES, INCLUDING PLATES, CHANNELS, AND ANGLES SHALL CONFORM TO ASTM A36, 36 KSI YIELD.
4. HOLLOW STRUCTURAL SECTION (HSS) RECTANGULAR SHAPES SHALL CONFORM TO ASTM A500, GRADE C, 50 KSI YIELD.
5. EXCEPT AS NOTED, FRAMED BEAM CONNECTIONS SHALL BE BEARING-TYPE WITH 3/4" DIAMETER, SNUG TIGHT, ASTM F3125 BOLTS, DETAILED IN CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND THE "STEEL CONSTRUCTION MANUAL" BY THE AISC. INSTALL BOLTS IN ACCORDANCE WITH AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
6. ALL BEAMS SHALL HAVE FULL DEPTH WEB STIFFENERS EACH SIDE OF WEBS ABOVE AND BELOW COLUMNS.
7. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36 OR 55 WITH WELDABILITY SUPPLEMENT S1 AS NOTED ON THE STRUCTURAL DRAWINGS.
8. WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE AISC DOCUMENTS LISTED ABOVE, THE AMERICAN WELDING SOCIETY (AWS) D1.1: STRUCTURAL WELDING CODE, AND THE RECOMMENDATIONS FOR USE OF WELD E70 ELECTRODES. WHERE NOT SPECIFICALLY NOTED, MINIMUM WELD SHALL BE 3/16" FILLET BY LENGTH OF CONTACT EDGE.
9. GROUT BENEATH COLUMN BASE AND BEAM BEARING PLATES SHALL HAVE A MINIMUM 28-DAY, COMPRESSIVE STRENGTH OF 7,500 PSI AND SHALL BE NON-SHRINK, NON-METALLIC, AND TESTED IN ACCORDANCE WITH ASTM C1107.

CORROSION CONTROL:

1. ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.
2. FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR ASTM B695 CLASS 50 (A490 BOLTS SHALL NOT BE HOT DIPPED GALVANIZED). STAINLESS STEEL FASTENERS AND HARDWARE MAY ALSO BE USED.
3. ALL FIELD CUT OR DAMAGED SURFACES, FIELD WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS AS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPAIRED WITH (2) COATS OF A 95% ZINC RICH PAINT PER ASTM A780 (ZRC PREFERRED).

SHOP DRAWINGS:

1. THE STRUCTURAL DRAWINGS ARE COPYRIGHTED AND SHALL NOT BE COPIED FOR USE AS ERECTION PLANS OR SHOP DETAILS. USE OF JVA'S ELECTRONIC FILES AS THE BASIS FOR SHOP DRAWINGS REQUIRES PRIOR APPROVAL BY JVA. A SIGNED RELEASE OF LIABILITY BY THE GENERAL CONTRACTOR AND/OR HIS SUBCONTRACTORS, AND DELETION OF JVA'S NAME AND LOGO FROM ALL SHEETS SO USED.
2. THE GENERAL CONTRACTOR SHALL SUBMIT IN WRITING ANY REQUESTS TO MODIFY THE STRUCTURAL DRAWINGS OR PROJECT SPECIFICATIONS.
3. ALL SHOP AND ERECTION DRAWINGS SHALL BE CHECKED AND STAMPED (AFTER HAVING BEEN CHECKED) BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION FOR STRUCTURAL ENGINEER'S REVIEW; SHOP DRAWING SUBMITTALS NOT CHECKED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER WILL BE RETURNED WITHOUT REVIEW.
4. FURNISH ELECTRONIC VERSION (PDF) OF SHOP AND ERECTION DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION FOR:
   - A. CONCRETE MIX DESIGNS
   - B. CONCRETE REINFORCING STEEL
   - C. CONCRETE SLAB ON GRADE CONTROL JOINT LAYOUT
   - D. MASONRY WALL COORDINATION DRAWING ELEVATIONS
   - E. MASONRY REINFORCING STEEL
   - F. STRUCTURAL STEEL
5. SUBMIT IN A TIMELY MANNER TO PERMIT 10 WORKING DAYS FOR REVIEW BY THE STRUCTURAL ENGINEER.
6. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "REQUEST FOR CHANGE IN WRITING" UNLESS SPECIFIC SUGGESTED CHANGES ARE CLEARLY MARKED. IN ANY EVENT, CHANGES MADE BY MEANS OF THE SHOP DRAWING SUBMITTAL PROCESS BECOME THE RESPONSIBILITY OF THE ONE INITIATING THE CHANGE.

SPECIAL INSPECTIONS - 2021:

1. THE FOLLOWING SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY A QUALIFIED SPECIAL INSPECTOR, RETAINED BY THE OWNER, IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF IBC CHAPTER 17:
   - A. SECTION 1704 SPECIAL INSPECTIONS, CONTRACTOR RESPONSIBILITY, AND STRUCTURAL OBSERVATIONS AND THE FOLLOWING SUB-SECTIONS:
     1. 1704.2 SPECIAL INSPECTIONS AND TESTS
     2. 1704.3 STATEMENT OF SPECIAL INSPECTIONS
   - B. SECTION 1705 REQUIRED VERIFICATION AND INSPECTION AND THE FOLLOWING SUB-SECTIONS:
     1. 1705.2 STEEL CONSTRUCTION
     2. 1705.3 CONCRETE CONSTRUCTION
     3. 1705.4 MASONRY CONSTRUCTION
     4. 1705.6 SOILS
2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE APPROVED INSPECTOR MUST BE INDEPENDENT FROM THE CONTRACTOR RESPONSIBLE FOR THE WORK BEING INSPECTED.
3. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR SHALL BE TO INSPECT AND/OR TEST THE WORK OUTLINED ABOVE AND WITHIN THE STATEMENT OF SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
5. PER SECTION 1704.2.4 THE SPECIAL INSPECTOR SHALL FURNISH REGULAR REPORTS TO THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER. PROGRESS REPORTS FOR CONTINUOUS INSPECTION SHALL BE FURNISHED WEEKLY. INDIVIDUAL REPORTS OF PERIODIC INSPECTIONS SHALL BE FURNISHED WITHIN ONE WEEK OF INSPECTION DATES. THE REPORTS SHALL NOTE UNCORRECTED DEFICIENCIES, CORRECTION OF PREVIOUSLY REPORTED DEFICIENCIES, AND CHANGES TO THE APPROVED CONSTRUCTION DOCUMENTS AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD.
6. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT WITHIN 10 DAYS OF THE FINAL SPECIAL INSPECTION STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC. WORK NOT IN COMPLIANCE SHALL BE NOTED IN THE REPORT.
7. EXCEPT AS NOTED, THE SPECIAL INSPECTIONS OUTLINED ABOVE ARE IN ADDITION TO, AND BEYOND THE SCOPE OF, PERIODIC STRUCTURAL OBSERVATIONS AS DEFINED IN SECTION 1704.6. STRUCTURAL OBSERVATIONS ARE INCLUDED IN THE STRUCTURAL ENGINEERING DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES PROVIDED BY THE STRUCTURAL ENGINEER.

STRUCTURAL DRAWING LIST	
SHEET NO	SHEET TITLE
S-001	GENERAL NOTES
S-002	ABBREVIATIONS & SMBOLS KEY
S-003	IBC 2021 STATEMENT OF SPECIAL INSPECTION
S-111A	HEADQUARTERS & RESTROOM FOUNDATION & ROOF PLANS
S-111C	COMMUNITY HUB FOUNDATION & ROOF PLANS
S-411A	HEADQUARTERS & RESTROOMS COLUMN PLANS & SECTION
S-411C	COMMUNITY HUB COLUMN PLANS & SECTIONS
S-500	TYPICAL CONCRETE DETAILS
S-501	TYPICAL CMU DETAILS
S-502	TYPICAL CMU DETAILS
S-503	TYPICAL STEEL DETAILS
S-510	FOUNDATION DETAILS
S-511	FOUNDATION DETAILS
S-512	ROOF DETAILS
S-513	ROOF DETAILS

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ARCHITECTURE

LANDSCAPE ARCHITECTURE

PLANNING

INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 223072.00
Sheet Issue Date: 2025-05-02
Drawn By: DJM
Checked By: BAR

Key Map

Drawing

GENERAL NOTES

S-001

SITE PLAN SUBMITTAL

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TYPICAL 6" AND 8" NON-STRUCTURAL BLOCK PARTITIONS:
BLOCK PARTITIONS SHALL HAVE #4 VERTICALS CENTERED IN WALL IN GROUTED CELLS AT CORNERS, JAMBS, WALL INTERSECTIONS, AND @ 8'-0 MAXIMUM. DOWEL TO SLAB WITH 1/2"Ø x 1'-6 ALL THREAD BARS INTO A 1/2"Ø DROP-IN EXPANSION ANCHOR WITH A 2" EMBEDMENT INTO THE SLAB. LOCATE DOWELS TO MATCH VERTICAL BAR SPACING. PROVIDE 2'-0 DEEP SOLID GROUTED MASONRY LINTEL AT TOP OF ALL WALLS WITH MATCHING CORNER BARS. WALL SHALL HAVE HORIZONTAL JOINT REINFORCING @ 16". BRACE TOP OF PARTITIONS PER SECTION 4/S-502. SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF PARTITIONS AND CONTROL JOINTS

MASONRY, STEEL, AND MECHANICAL SUBCONTRACTORS' NOTE:
STRUCTURAL DRAWINGS DO NOT INDICATE ALL WALL, FLOOR, OR ROOF PENETRATIONS FOR MECH DUCTS, DRAINS, VENTS, ETC.; DRAWINGS INDICATE TYPICAL AND SPECIAL CONDITIONS FOR FRAMING AT THE PENETRATIONS, SEE 3/S-503; GENERAL CONTRACTOR AND SUBCONTRACTORS' SHALL BE RESPONSIBLE FOR DETERMINING AND/OR MODIFYING OPENING LOCATIONS, ELEVATIONS AND DIMENSIONS FOR MECH UNLESS NOTED OTHERWISE. COORDINATION TO BE COMPLETED PRIOR TO FABRICATION OF STRUCTURAL STEEL AND ROOF JOISTS

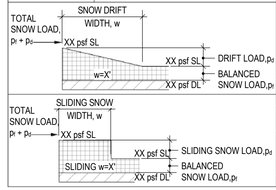
FIELD VERIFICATION:
- ALL DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED BY CONTRACTOR.
- IF DIMENSIONS AND CONDITIONS DIFFER THAN THOSE SHOWN ON DRAWINGS, NOTIFY ARCHITECT AND ENGINEER

ABBREVIATIONS KEY

@	ON CENTER SPACING	DWG	DRAWING	LGS	LIGHT GAGE STEEL	
(E)	EXISTING	DWL	DOWEL	LL	LIVE LOAD	REINF	REINFORCE, -ED, -ING
(N)	NEW	EA	EACH	LLH	LONG LEG HORIZONTAL	REQ	REQUIRED
(R)	REMOVE	ECC	ECCENTRIC	LLV	LONG LEG VERTICAL	REQMT	REQUIREMENT
AB	ANCHOR ROD (BOLT)	E-E	END TO END	LOC	LOCATION	RET	RETAINING
ADDL	ADDITIONAL	EF	EACH FACE	LP	LOW POINT	RM	ROOM
ADJ	ADJUSTABLE	EJ	EXPANSION JOINT	LSL	LAMINATED STRAND LUMBER (GENERIC TERM)	RMO	ROUGH MASONRY OPENING
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	EL	ELEVATION	LT	LIGHT	RO	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	ELEC	ELECTRIC, ELECTRICAL	LVL	LAMINATED VENEER LUMBER (GENERIC TERM)	SC	SLIP-CRITICAL
ALT	ALTERNATE	EMBED	EMBEDMENT	MACH	MACHINE	SCH	SCHEDULE
AMT	AMOUNT	ENGR EOR	ENGINEER ENGINEER OF RECORD	MASY	MASONRY	SDST	SELF-DRILLING/ SELF-TAPPING
ANCH	ANCHOR, ANCHORAGE	EQ	EQUAL	MATL	MATERIAL	SECT	SECTION
APPROX	APPROXIMATE	EQUIP	EQUIPMENT	MAX	MAXIMUM	SF	SQUARE FEET, SUB-FLOOR
ARCH	ARCHITECT, -URAL	EQUIV	EQUIVALENT	MB	MACHINE BOLT	SHT	SHEET
ATR	ALL THREAD ROD	ES	EACH SIDE	MECH	MECHANICAL	SHTG	SHEATHING
AVG	AVERAGE	EST	ESTIMATE	MEZZ	MEZZANINE	SIM	SIMILAR
BC	BOTTOM OF CONCRETE	E-W	EAST TO WEST	MFR	MANUFACTURE, -ER, -ED	SLH	SHORT LEG HORIZONTAL
BL	BRICK LEDGE	EXC	EXCAVATE	MIN	MINIMUM	SLV	SHORT LEG VERTICAL
BLK	BLOCK	EXP	EXPANSION	ML	MICROLLAM (TRUS-JOIST BRAND LVL), MASONRY LINTEL	SOG	SLAB ON GRADE
BLKG	BLOCKING	EXT	EXTERIOR	MO	MASONRY OPENING	SP	SPACES, SPACED
BM	BEAM	FD	FLOOR DRAIN	MTL	METAL	SPEC	SPECIFICATIONS
BOT	BOTTOM	FDN	FOUNDATION	NF	NEAR FACE	SQ	SQUARE
BRG	BEARING	FF	FINISHED FLOOR, FAR FACE	NIC	NOT IN CONTRACT	SSR	SHEAR STUD RAIL
BW	BOTTOM OF WALL	F-F	FACE TO FACE	NS	NEAR SIDE	ST	SNUG-TIGHT
CB	COUNTERBORE	FIG	FIGURE	N-S	NORTH TO SOUTH	STD	STANDARD
CF	CUBIC FOOT	FL	FLUSH	NTS	NOT TO SCALE	STIFF	STIFFENER
CFS	COLD-FORMED STEEL	FLG	FLANGE	OCJ	OSHA COLUMN JOIST	STL	STEEL
CG	CENTER OF GRAVITY	FLR	FLOOR DRAIN	OD	OUTSIDE DIAMETER	STRUCT	STRUCTURE, -AL
CIP	CAST-IN-PLACE	FO	FACE OF	OF	OUTSIDE FACE	SUPT	SUPPORT
CJ	CONSTRUCTION JOINT, CONTROL JOINT	FP	FULL PENETRATION	OH	OPPOSITE HAND	SY	SQUARE YARD
CJP	COMPLETE JOINT PENETRATION	FS	FOOTING STEP, FAR SIDE	OPNG	OPENING	SYM	SYMMETRICAL
CL	CENTER LINE	FTG	FOOTING	OPP	OPPOSITE	T&B	TOP AND BOTTOM
CLG	CEILING	GA	GAGE, GAUGE	OSB	ORIENTED STRAND BOARD	T&G	TONGUE AND GROOVE
CLR	CLEAR	GALV	GALVANIZED	PAF	POWDER ACTUATED FASTENER	TB	TOP OF BEAM
CM	CONSTRUCTION MANAGER, -MENT	GC	GENERAL CONTRACTOR	PC	PRECAST	TC	TOP OF CONCRETE
CMU	CONCRETE MASONRY UNIT	GEN	GENERAL	PCF	POUNDS PER CUBIC FOOT	TCA	TORQUE-CONTROLLED ANCHOR
COL	COLUMN	GL	GLUED LAMINATED, GLULAM	PE	PRE-ENGINEERED	TD	TOP OF DECK
COM	COMMON	GND	GROUND	PEN	PENETRATION	THD	THREAD
COMB	COMBINATION	GR	GRADE	PERP	PERPENDICULAR	THK	THICK, -NESS
CONC	CONCRETE	GT	GIRDER TRUSS	PJP	PARTIAL JOINT PENETRATION	TJ	TOP OF JOIST
CONN	CONNECTION	GYP BD	GYPSUM BOARD	PL	PLATE	TL	TOTAL LOAD
CONT	CONTINUOUS, CONTINUE	HAS	HEADED ANCHOR STUD	PLF	POUND PER LINEAR FOOT	TPG	TOPPING
COORD	COORDINATE, COORDINATION	HDG	HOT-DIP GALVANIZED	PNL	PANEL	TRANS	TRANSVERSE
CS	COUNTERSINK	HDR	HEADER	PP	PANEL POINT	TW	TOP OF WALL
CTR	CENTER	HORIZ	HORIZONTAL	PS	PRESTRESSED	TYP	TYPICAL
CY	CUBIC YARD	HP	HIGH POINT	PSF	POUNDS PER SQUARE FOOT	ULT	ULTIMATE
DAB	DEFORMED ANCHOR BAR	HT	HEIGHT	PSI	POUNDS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
DET	DETAIL	ID	INSIDE DIAMETER	PSL	PARALLEL STRAND LUMBER (GENERIC TERM)	VERT	VERTICAL
DEV	DEVELOP	IF	INSIDE FACE	PT	POST TENSIONED, PRESSURE TREATED	VIF	VERIFY IN FIELD
DIAG	DIAGONAL	INT	INTERIOR, INTERMEDIATE	PTN	PARTITION	WP	WORK POINT
DIM	DIMENSION	IT	INVERTED TEE	PWD	PLYWOOD	WT	WEIGHT
DL	DEAD LOAD	JB	JOIST BEARING	QTY	QUANTITY	WWF	WELDED WIRE FABRIC
DN	DOWN	JST	JOIST	R	RADIUS	XS	EXTRA STRONG
DP	DRILLED PIER	JT	JOINT	RE	REFERENCE, REFER TO	XSECT	CROSS SECTION
DT	DOUBLE TEE	K	KIP (1,000 LBS)	RECT	RECTANGLE	XXS	DOUBLE EXTRA STRONG

SYMBOLS KEY

	DIRECTION OF DECK SPAN
GRID	GRID DESIGNATION
X	REVISION
X / SX	INDICATES STRUCTURAL ELEVATION
SWx	SHEAR WALL
	SHORING
	STEP IN FLOOR ELEVATION
	CMU (CONCRETE MASONRY UNIT)
	BRICK
	CIP CONCRETE
	PRECAST CONCRETE
	EXISTING CONCRETE
	EARTH
FX.X	ISOLATED SPREAD FOOTING MARK
FXX	SPREAD FOOTING MARK
STEP	STEP IN BOTTOM OF WALL/GRADE BEAM
XX:12	ROOF SLOPE
SLOPE	DIRECTION OF SLOPE (DOWN)
DN / UP	STAIR OR RAMP DIRECTION

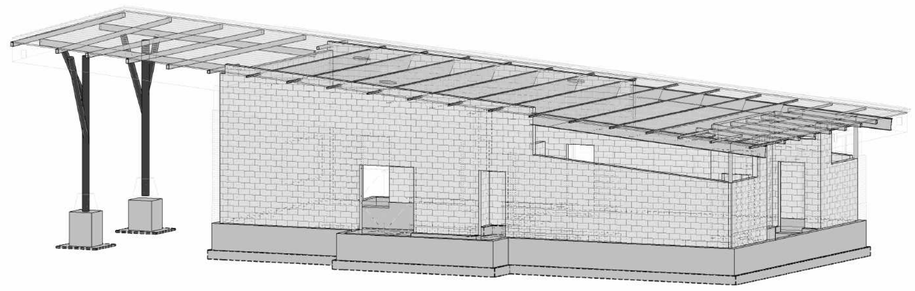


BUILDING COLUMN DESIGNATIONS

XXX'-X	TOP OF CONCRETE OR MASONRY ELEVATION
[XXX'-X]	TOP OF BEAM ELEVATION
JB XXX'-X	JOIST BEARING ELEVATION
BL XXX'-X	BRICK LEDGE ELEVATION
(XXX'-X)	TOP OF FOOTING ELEVATION
XXX'-X	TOP OF FLOOR ELEVATION
CONT C	COLUMN CONTINUOUS FROM LEVEL BELOW
CXX	COLUMN STARTING AT THIS LEVEL
B	COLUMN STOPPING BELOW THIS LEVEL, SEE FRAMING PLAN AT NEXT LOWER LEVEL
CXX STUB	COLUMN STARTING AND ENDING AT THIS LEVEL OF FRAMING
CXX HGR	COLUMN CONNECTING A LOWER BEAM TO A HIGHER BEAM AT THIS LEVEL OF FRAMING

BRACED/FRAME BAY SYMBOLS

B	INDICATES BRACED BAY MARK
X / SX	INDICATES BRACED BAY ELEVATION
	INDICATES BRACED MEMBER (ON PLAN)
	INDICATES CONFIGURATION OF INVERTED CHEVRON-TYPE BRACED BAY WITH HSS DIAGONAL BRACES
	INDICATES CONFIGURATION OF SINGLE DIAGONAL BRACED BAY WITH HSS DIAGONAL BRACE
RF	INDICATES RIGID (MOMENT) FRAME WITH FULL PENETRATION WELDED BEAM FLANGE TO COLUMN CONNECTIONS
X / SX	INDICATES RIGID (MOMENT) FRAME ELEVATION W/ FULL PENETRATION WELDED BEAM FLANGE TO COLUMN CONNECTIONS
	INDICATES BRACED BAY OR FRAMED BAY COLUMN BASE
	FULLY WELDED MOMENT FRAME CONNECTION
	CANTILEVER MOMENT CONNECTION
	LOCATION OF BEND IN BENT BEAM
<X>	NUMBER OF HEADED ANCHOR STUDS



3D SCHEMATIC VIEW - HEADQUARTERS & RESTROOMS

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Δ	DATE	DESCRIPTION

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Checked By: BAR

Key Map

Drawing
ABBREVIATIONS & SMBOLS KEY

S-002

SITE PLAN SUBMITTAL

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STEEL SPECIAL INSPECTION (IBC 1705.2, 1705.12.3 & 1705.13.1)

ITEM	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS
FABRICATORS			(IBC 1704.2.5 & 1705.11)
In-plant Inspection	AWS/AISC-SSI ICC-SWSI		Required unless Fabricator is approved and follows procedures of 1704.2.5.1
PRIOR TO WELDING			(TABLE N5.4-1, AISC 360-16)
Verify welding procedures (WPS) and consumable certificates	AWS-CWI ASNT	Continuous	
Material identification	AWS-CWI ASNT	Periodic	Verify type and grade of material.
Welder identification	AWS-CWI ASNT	Periodic	A system shall be maintained by which a welder who has welded a joint or member can be identified.
Fit-up groove welds	AWS-CWI ASNT	Periodic	Verify joint preparation, dimensions, cleanliness, tacking, and backing.
Access holes	AWS-CWI ASNT	Periodic	Verify configuration and finish.
Fit-up of fillet welds	AWS-CWI ASNT	Periodic	Verify alignment, gaps at root, cleanliness of steel surfaces, and tack weld quality and location.
DURING WELDING			(TABLE N5.4-2, AISC 360-16)
Use of qualified welders	AWS-CWI ASNT	Periodic	Verify that welders are appropriately qualified.
Control and handling of welding consumables	AWS-CWI ASNT	Periodic	Verify packaging and exposure control.
Cracked tack welds	AWS-CWI ASNT	Periodic	Verify that welding does not occur over cracked tack welds.
Environmental conditions	AWS-CWI ASNT	Periodic	Verify wind speed is within limits as well as precipitation and temperature.
WPS followed	AWS-CWI ASNT	Periodic	Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.
Welding techniques	AWS-CWI ASNT	Periodic	Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass.
AFTER WELDING			(TABLE N5.4-3, AISC 360-10)
Welds cleaned	AWS-CWI ASNT	Periodic	Verify that welds have been properly cleaned.
Size, length, and location of welds	AWS-CWI ASNT	Continuous	
Welds meet visual acceptance criteria	AWS-CWI ASNT	Continuous	
Arc strikes	AWS-CWI ASNT	Continuous	
k-area	AWS-CWI ASNT	Continuous	
Weld access holes in heavy shapes	AWS-CWI ASNT	Continuous	
Backing & weld tabs removed	AWS-CWI ASNT	Continuous	
Repair activities	AWS-CWI ASNT	Continuous	
Document acceptance or rejection of welded joint/member	AWS-CWI ASNT	Continuous	
AFTER BOLTING			(TABLE N5.6-3, AISC 360-16)
Document acceptance or rejection of bolted connections	AWS/AISC-SSI ICC-SWSI	Continuous	
OTHER STEEL INSPECTIONS			(SECTION N5.7, AISC 360-16; Tables J8-1 & J10-1, AISC 341-16)
Structural steel details	PE/SE	Periodic	All fabricated steel or steel frames shall be inspected to verify compliance with the details shown in the construction documents, such as braces, stiffeners, member locations, and proper application of joint details at each connection.
Anchor rods and other embedments supporting structural steel	ACI-CCI	Periodic	Shall be on the premises during the placement of anchor rods and other embedments supporting structural steel for compliance with construction documents. Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.
STEEL ROOF DECKS			(IBC 1705.2.2; Section 6.1 of SDI QA/QC - 2017)
Material verification of cold-formed steel deck	AWS/AISC-SSI ICC-SWSI	Periodic	Confirm that identification markings are provided to conform to ASTM standards specified on construction documents.
Roof deck welds	AWS-CWI	Periodic	Visual inspection is required to confirm that weld meets acceptance criteria of AWS D1.3 and SDI C, SDI NC, SDI RD and manufacturer's instructions.
Roof mechanical fasteners	AWS/AISC-SSI ICC-SWSI	Periodic	Visual inspection to confirm fasteners are installed per SDI C, SDI NC, SDI RD and manufacturer's instructions.
Steel deck installation	AWS/AISC-SSI ICC-SWSI	Periodic	Verify deck is installed per the approved construction documents, installation drawings, shop drawings and applicable reference standards.

MASONRY SPECIAL INSPECTION (IBC 1705.4)

ITEM	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS
PRIOR TO CONSTRUCTION			(TABLE 3, TMS-602/ACI530.1-16)
Review material certificates, mix designs, test results and construction procedures	PE	Periodic	Verify that materials conform to the requirements of the approved construction documents. Mix design, test results, material certificates, and construction procedures should be submitted for review. Mortar mix designs shall conform to ASTM C 270 while grout shall conform to ASTM C 476. Material certificates shall be provided for the following: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed.
AS CONSTRUCTION BEGINS			(TABLE 4, TMS-602/ACI530-16)
Proportions of site-prepared mortar	ICC-SMSI	Periodic	Verify that mortar is of the type and color specified on the construction documents, that it conforms to ASTM C 270, and that it is mixed in accordance with Article 2.6 A of TMS-602.
PRIOR TO GROUTING			(TABLE 4, TMS-602/ACI530-16)
Grout space	ICC-SMSI	Periodic	Verify that grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are provided per Article 3.2 D and 3.2 F of TMS-602.
DURING MASONRY CONSTRUCTION			(TABLE 4, TMS-602/ACI530-16)
Size and location of structural elements	ICC-SMSI	Periodic	Verify the locations of structural elements with respect to the approved plans and confirm that tolerances meet the requirements of Article 3.3 F of TMS 602.
Materials and procedures with the approved submittals	ICC-SMSI	Periodic	Verify materials and construction procedures are in accordance with approved submittals per Article 1.5 of TMS-602
Placement of masonry units and mortar joint construction	ICC-SMSI	Periodic	Verify placement of masonry units and mortar joints are in accordance with Article 3/3B of TMS-602
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	ICC-SMSI	Periodic	Verify that correct anchorages and connections are provided per the approved plans and Sections 1.16.4.3 and 1.17.1 of TMS 402
Welding of reinforcement	ICC-SMSI AWS-CWI	Continuous	
Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F).	ICC-SMSI	Periodic	Verify that cold-weather construction is performed in accordance with Article 1.8 C of TMS 602 and hot weather construction per Article 1.8 D of TMS 602.
Construction of mortar joints	ICC-SMSI	Periodic	Verify that mortar joints are placed in accordance with Article 3.3 B of TMS 602.

CONCRETE SPECIAL INSPECTION (IBC 1705.3 & 1705.12.1)

ITEM	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS
Reinforcing steel	ACI-CCI ICC-RCSI	Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Welding of reinforcing steel	AWS-CWI	Periodic	Visually inspect all welds and also verify weldability of reinforcing steel based upon carbon equivalent and in accordance with AWS D1.4.
Cast-in bolts & embeds	ACI-CCI ICC-RCSI	Periodic	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used.
Post-installed anchors or dowels	ACI-CCI ICC-RCSI	Periodic	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. Horizontally or upwardly inclined anchors that resist sustained tension loads require continuous inspection and approved installers.
Use of required mix design	ACI-CCI ICC-RCSI	Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3, 26.4.4; and IBC 1904.1, 1904.2, 1908.2, 1908.3.
Concrete sampling for strength tests, slump, air content, and temperature	ACI-CFTT ACI-SIT	Continuous	
Concrete placement	ACI-CCI ICC-RCSI	Continuous	
Curing temperature and techniques	ACI-CCI ICC-RCSI	Periodic	Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 26.4.7-26.4.9). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
Formwork		Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.

SOIL SPECIAL INSPECTION (IBC 1705.6)

ITEM	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS
SHALLOW FOUNDATIONS			(IBC 1705.6)
Verify subgrade	PE/GE	Periodic	Prior to placement of concrete inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.
CONTROLLED STRUCTURAL FILL			(IBC 1705.6)
Excavations	PE/GE	Periodic	Verify excavations extend to proper depth and material prior to placement of compacted fill or concrete.
Fill materials	PE/GE	Periodic	Perform classification and testing of compacted fill materials. Check for proper classifications and gradations at each lift and not less than once for each 10,000ft² of surface area.
Placement and compaction		Continuous	Verify proper materials, densities and lift thicknesses during placement and compaction.
Subgrade preparation	PE/GE	Periodic	Verify that subgrade has been appropriately prepared prior to placing compacted fill.
Density		Continuous	Test density of each lift by nuclear methods (ASTM D2922).

STATEMENT OF SPECIAL INSPECTIONS

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This *Statement of Special Inspections* encompass the following disciplines: Structural

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.
Interim Report Frequency: Within 72 hours of inspection, unless indicated otherwise.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the *Agency Number* on the Schedule.

PE/SE Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

American Concrete Institute (ACI) Certification
ACI-CFTT Concrete Field Testing Technician – Grade 1
ACI-CCI Concrete Construction Inspector
ACI-LTT Laboratory Testing Technician – Grade 1 & 2
ACI-STT Strength Testing Technician

American Welding Society (AWS) Certification
AWS-CWI Certified Welding Inspector
AWS/AISC-SSI Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification
ASNT Non-Destructive Testing Technician – Level II or III

International Code Council (ICC) Certification
ICC-SMSI Structural Masonry Special Inspector
ICC-SWSI Structural Steel and Welding Special Inspector
ICC-SFSI Spray-Applied Fireproofing Special Inspector
ICC-PCSI Prestressed Concrete Special Inspector
ICC-RCSI Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)
NICET-CT Concrete Technician – Levels I, II, III & IV
NICET-ST Soils Technician - Levels I, II, III & IV
NICET-GET Geotechnical Engineering Technician - Levels I, II, III & IV

Quality Assurance Plans

Quality Assurance for Seismic Resistance
Seismic Design Category: B
Quality Assurance Plan Required: No

Quality Assurance for Wind Requirements
Allowable Stress Design Wind Speed V_{asd} (3 second gust): 110 mph
Basic Wind Speed V_{ult} (3 second gust): 130 mph
Wind Exposure Category: C
Quality Assurance Plan Required: No

Prepared by:

BRETT A. ROBINSON, P.E./ Signature Date

Owner's Authorization:

Signature Date

Building Official's Acceptance:

Signature Date

SCHEDULE OF INSPECTION AND TESTING AGENCIES

SPECIAL INSPECTION AGENCIES	FIRM	ADDRESS, TELEPHONE, E-MAIL
Special Inspection Coordinator	TBD	
Inspector	TBD	
Inspector	TBD	
Testing Agency	TBD	
Testing Agency	TBD	
Continuous	TBD	
Other	TBD	

Structural Observations
The following structural observations will be made to visually observe representative locations of structural systems, details, and load paths for general conformance to the approved construction documents. The Contractor shall notify the Engineer a minimum of 5 working days before work is ready to be observed to allow scheduling of site visit.

1. FOUNDATIONS
   A. Footings: Observation of layout and reinforcement placement near the start of operation.
   B. Foundation Walls: Observation of layout and reinforcement placement near the start of operation.
2. CONCRETE
   A. Walls: Observation of reinforcement placement near the start of operation.
3. MASONRY
   A. Walls: Observation of layout, control joint placement, and reinforcement placement near the start of operation.
4. STEEL FRAMING
   A. Elevated Floors: Observation of steel deck, headed anchor studs, and slab reinforcement prior to first slab-on-metal deck placement.

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Sheet Issue Date: 2025-05-02
Drawn By: LB
Checked By: BAR

Key Map

Drawing
IBC 2021 STATEMENT OF SPECIAL INSPECTION

S-003

SITE PLAN SUBMITTAL

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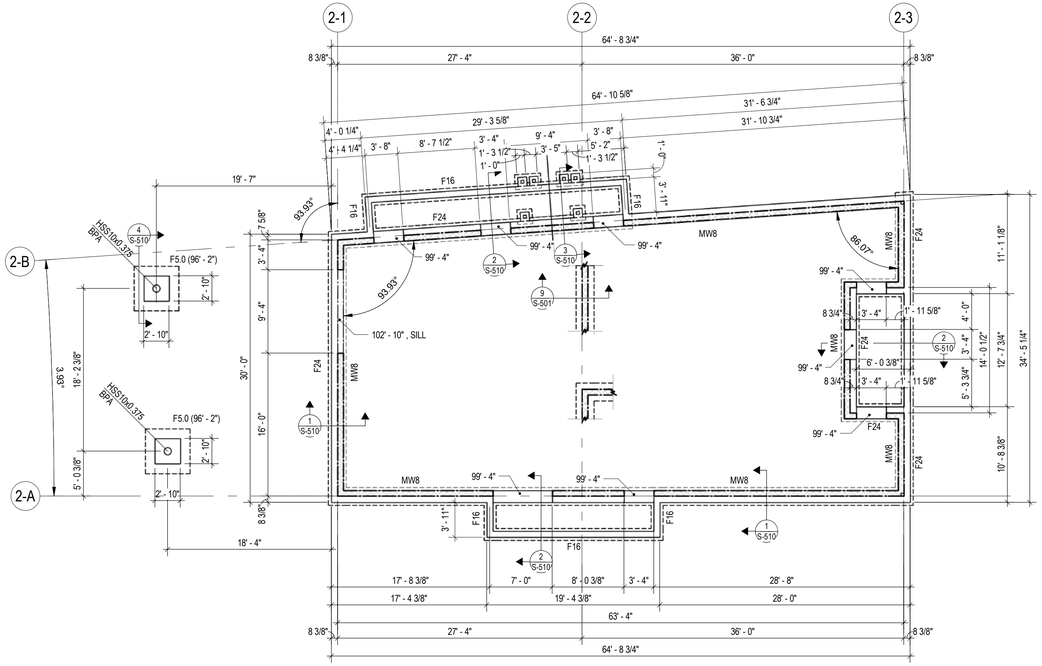


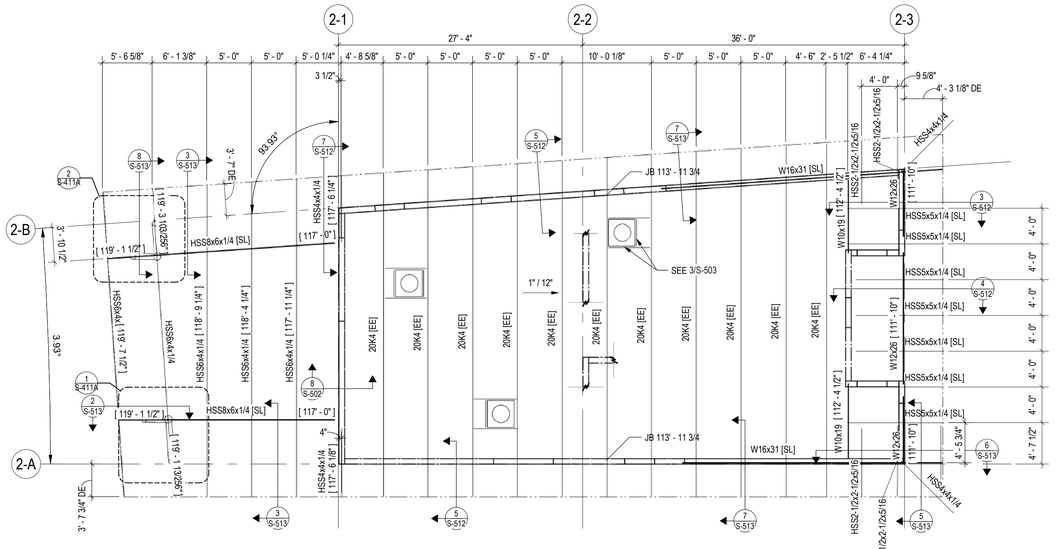
HEADQUARTERS & RESTROOMS FOUNDATION PLAN

1/8" = 1'-0"

NORTH 0 2' 4' 8' 16'

- USGS ELEVATION 5850.7' = 100'-0, TOP OF MAIN LEVEL INTERIOR FLOOR SLAB XXX'-X
- TOP OF INTERIOR FLOOR SLAB ELEVATION = 100'-0 UNLESS NOTED THUS:
- TOP OF PERIMETER/EXTERIOR FOOTING = 97'-0 UNLESS NOTED THUS: (XXX'-X)
- FOOTING STEP PER S/S-500 NOTED THUS: FS
- TOP OF CONCRETE STEM WALL ELEVATION = 100'-0 AT EXTERIOR STUD WALLS AND 99'-4 AT DOOR OPENINGS UNLESS NOTED THUS: XXX'-X
- PERIMETER STEEL COLUMNS BEAR ON FOOTINGS, PEDESTALS, OR PILASTERS AT ELEVATION = 99'-4, TYPICAL UNLESS NOTED: XXX'-X

TYPICAL INTERIOR SLAB ON GRADE:
5" THICK CONCRETE SLAB ON UNDISTURBED NATURAL SOILS OR COMPACTED STRUCTURAL FILL PER SOILS REPORT; REINFORCE SLAB W/ #4 @ 16", EA WAY, AT MID-DEPTH; ADD (2) #4 x 5'-0 DIAGONAL BARS AT MID-DEPTH OF SLAB AT ALL RE-ENTRANT CORNERS. PROVIDE SAWCUT OR FORMED CONTROL JOINTS, PER 7/S-500, @ 12'-0± IN EACH DIRECTION. JOINTS SHALL BE CONTINUOUS, NOT STAGGERED OR OFFSET. ASPECT RATIO SHALL BE A MAXIMUM OF 1.5 TO 1.



HEADQUARTERS & RESTROOMS ROOF PLAN

1/8" = 1'-0"

NORTH 0 2' 4' 8' 16'

- USGS ELEVATION XXXX' = 100'-0
- TOP OF STEEL BEAM ELEVATION NOTED THUS: [XXX'-X]
- AT SLOPING [SL] BEAMS, TOP OF STEEL ELEVATIONS NOTED THUS: [XXX'-X]
- BEAM END ELEVATION PERPENDICULAR TO K & KCS JOIST SPAN = 2 1/2" BELOW TOP OF JOIST, TYPICAL UNLESS NOTED OTHERWISE
- TOP OF SLOPING BEAM END ELEVATION PARALLEL TO JOIST SPAN = TOP OF JOIST, TYPICAL UNLESS NOTED OTHERWISE
- TOP OF CMU WALL ELEVATION NOTED THUS:XXX'-X
- JOIST AT CMU BEARING ELEVATION NOTED THUS: JB XXX'-X
- SEE ARCH DRAWINGS FOR SIZE AND LOCATION OF ALL ROOF OPENINGS
- [do] INDICATES DITTO

TYPICAL ROOF DECK:
1 1/2" DEEP x 22 GAGE STEEL DECK (VULCRAFT TYPE 1.5B22) WITH 5/8" PUDDLE WELDS @ 12" (36/4) AT INTERMEDIATE SUPPORTS & EDGES AND #10 SDST SCREWS @ 12" AT SIDELAP CONNECTIONS. STEEL DECK SHALL BE CONTINUOUS OVER THREE OR MORE SUPPORTS.

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Checked By:	BAR

Key Map

Drawing

HEADQUARTERS & RESTROOM FOUNDATION & ROOF PLANS

S-111A

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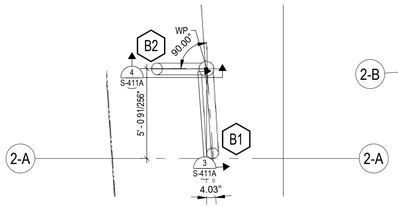
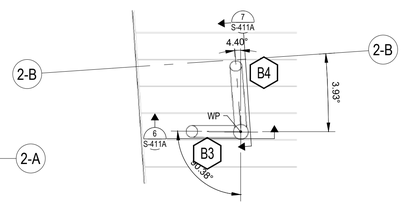
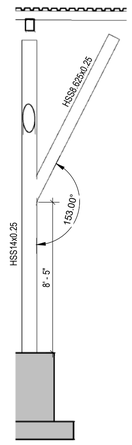


1 S-411A — COLUMN PLAN 1
1/4" = 1'-0"

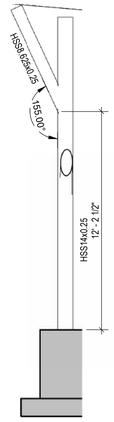
0 1' 2' 4' 8'



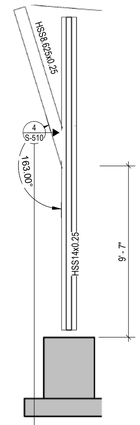
2 S-411A — COLUMN PLAN 2
1/4" = 1'-0"



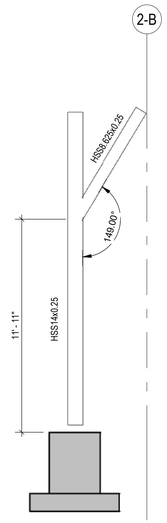
3 S-411A — SECTION - B1 COLUMN
1/4" = 1'-0"



4 S-411A — SECTION - B2 COLUMN
1/4" = 1'-0"



6 S-411A — SECTION - B3 COLUMN
1/4" = 1'-0"



7 S-411A — SECTION - B4 COLUMN
1/4" = 1'-0"

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Key Map

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HEADQUARTERS & RESTROOMS COLUMN PLANS & SECTION

S-411A

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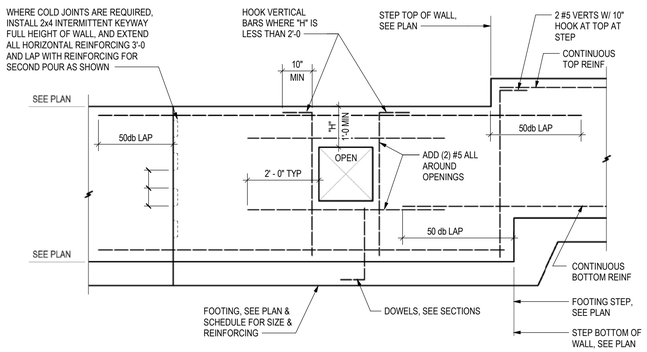
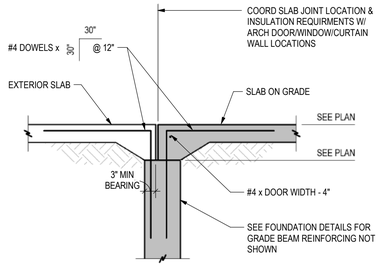
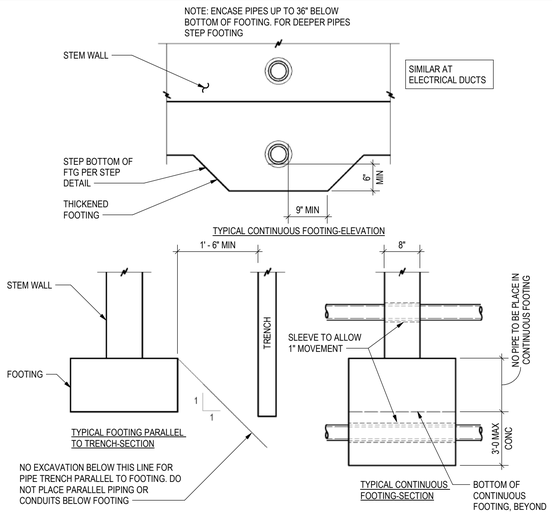


10 S-500 **TYP CONC REINF AT STEPS & OPENINGS**
1/2" = 1'-0"

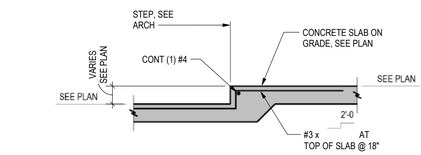


TYPICAL EXTERIOR DOOR THRESHOLD - SECTION

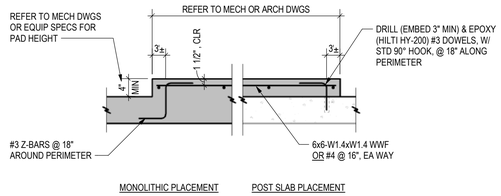
11 S-500 **TYP EXTERIOR DOOR THRESHOLD**
3/4" = 1'-0"



12 S-500 **TYP CONC PIPING AT FOOTING**
3/4" = 1'-0"

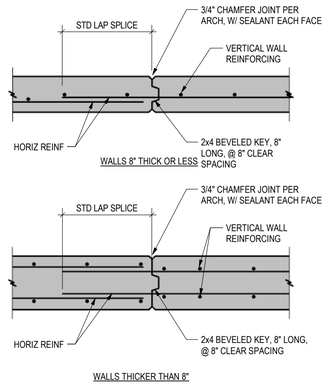


14 S-500 **DETAIL**
3/4" = 1'-0"

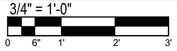


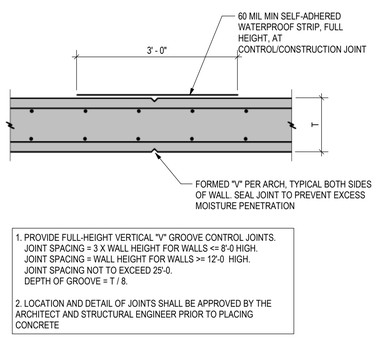
13 S-500 **DETAIL**
3/4" = 1'-0"

C



5 S-500 **TYP CONC VERT JOINT IN WALL**
3/4" = 1'-0"

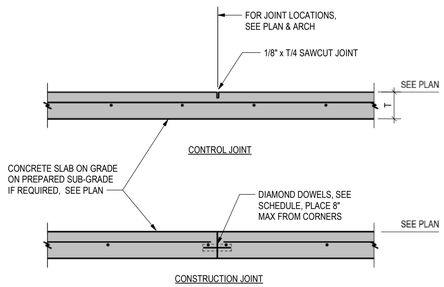




1. PROVIDE FULL-HEIGHT VERTICAL "V" GROOVE CONTROL JOINTS.
JOINT SPACING = 3 X WALL HEIGHT FOR WALLS <= 8'-0 HIGH.
JOINT SPACING = WALL HEIGHT FOR WALLS >= 12'-0 HIGH.
JOINT SPACING NOT TO EXCEED 25'-0.
DEPTH OF GROOVE = T / 8.

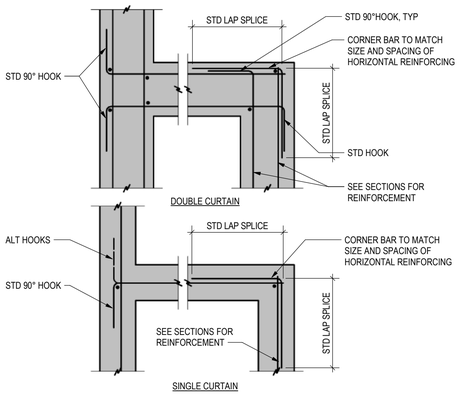
2. LOCATION AND DETAIL OF JOINTS SHALL BE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE

6 S-500 **TYP CONC VERT JOINT IN SITE WALL**
3/4" = 1'-0"

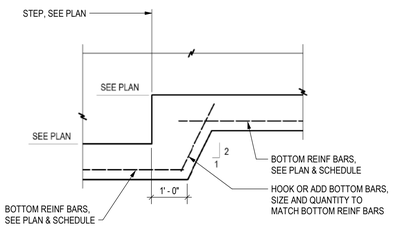


DOWEL SIZE & SPACING AT CONSTRUCTION JOINTS		
SLAB DEPTH (INCHES)	DOWEL DIMENSIONS (INCHES)	DOWEL SPACING (INCHES)
5 TO 6	1/4 x 4-1/2 x 4-1/2	18
7 TO 8	3/8 x 4-1/2 x 4-1/2	18
9 TO 11	3/4 x 4-1/2 x 4-1/2	20

7 S-500 **TYP REINF SLAB ON GRADE JOINTS**
3/4" = 1'-0"



8 S-500 **TYP CONC WALL INTERSECTIONS**
3/4" = 1'-0"



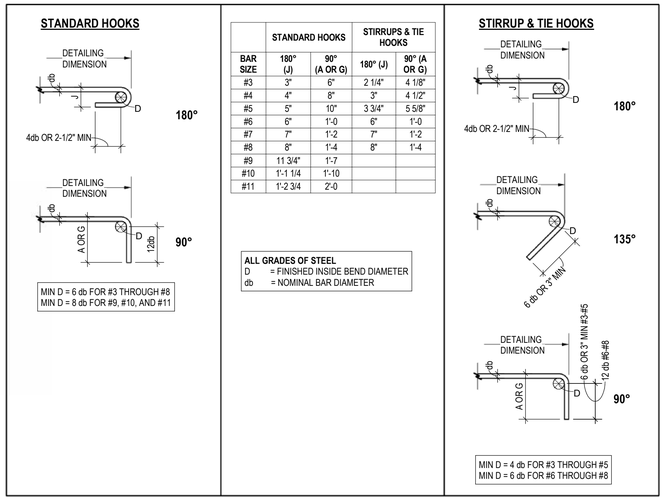
9 S-500 **TYP CONC FOOTING STEP**
1/2" = 1'-0"

B

TYPICAL CONCRETE REINFORCING LAP & EMBEDMENT LENGTHS (UNO)							
		f'c = 3000 PSI		f'c = 4000 PSI		f'c = 5000 PSI	
BAR SIZE	TYPE	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR
#4	EMBED	29	22	25	19	22	17
	LAP	37	29	32	25	29	22
#5	EMBED	36	28	31	24	28	22
	LAP	47	36	40	31	36	28
#6	EMBED	43	33	37	29	33	26
	LAP	56	43	48	37	43	33
#7	EMBED	63	48	54	42	49	37
	LAP	81	63	70	54	63	49
#8	EMBED	72	55	62	48	55	43
	LAP	93	72	80	62	72	55
#9	EMBED	81	62	70	54	63	48
	LAP	105	81	91	70	81	63
#10	EMBED	91	70	79	61	70	54
	LAP	118	91	102	79	91	70
#11	EMBED	101	78	87	67	78	60
	LAP	131	101	113	87	101	78

NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW BAR
2. TABULATED VALUES ARE BASED ON GRADE 60 NON-EPOXY-COATED REINFORCING BARS AND NORMAL WEIGHT CONCRETE
3. VALUES ARE IN INCHES

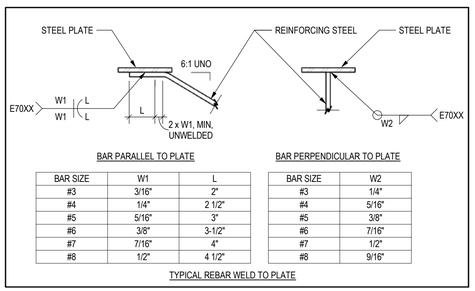
1 S-500 **TYP CONC EMBED & LAP**
NO SCALE



	STANDARD HOOKS		STIRRUPS & TIE HOOKS	
BAR SIZE	180° (J)	90° (A OR G)	180° (J)	90° (A OR G)
#3	3"	6"	2 1/4"	4 1/8"
#4	4"	8"	3"	4 1/2"
#5	5"	10"	3 3/4"	5 5/8"
#6	6"	1'-0	6"	1'-0
#7	7"	1'-2	7"	1'-2
#8	8"	1'-4	8"	1'-4
#9	11 3/4"	1'-7		
#10	1'-1 1/4	1'-10		
#11	1'-2 3/4	2'-0		

ALL GRADES OF STEEL
D = FINISHED INSIDE BEND DIAMETER
db = NOMINAL BAR DIAMETER

2 S-500 **TYP CONC HOOKS & STIRRUPS**
NO SCALE



BAR PARALLEL TO PLATE

BAR SIZE	W1	L
#3	3/16"	2"
#4	1/4"	2 1/2"
#5	5/16"	3"
#6	3/8"	3-1/2"
#7	7/16"	4"
#8	1/2"	4 1/2"

BAR PERPENDICULAR TO PLATE

BAR SIZE	W2
#3	1/4"
#4	5/16"
#5	3/8"
#6	7/16"
#7	1/2"
#8	9/16"

TYPICAL REBAR WELD TO PLATE

3 S-500 **TYP REINFORCING WELD DETAILS**
3/4" = 1'-0"

ISOLATED FOOTING SCHEDULE					
MARK	WIDTH	LENGTH	THICKNESS	REINFORCING	COMMENTS
F1.67	1' - 8"	1' - 8"	1' - 0"	(2) #5 EA WAY, BOT	
F4.0	4' - 0"	4' - 0"	1' - 0"	(4) #5 EA WAY, TOP & BOT	
F5.0	5' - 0"	5' - 0"	1' - 0"	(5) #5 EA WAY, TOP & BOT	
F6.0	6' - 0"	6' - 0"	1' - 4"	(6) #6 EA WAY, TOP & BOT	
F7.0	7' - 0"	7' - 0"	1' - 6"	(7) #6 EA WAY, TOP & BOT	

FOOTING NOTES:
1. * MATCH BOTTOM REINFORCING AT TOP OF FOOTING PER 4/S-510 INDICATED THUS ' ► ' ON PLAN
2. CENTER FOOTINGS UNDER STEMWALLS, PILASTERS, & COLUMNS, TYPICAL UNLESS NOTED OTHERWISE
3. FOOTING WIDTHS SHALL NOT VARY IN THE FIELD FROM SIZE NOTED; OVERSIZE FOOTINGS ARE NOT ALLOWED
4. LAPPED BOARD FORMING NOT ALLOWED
5. TRENCHFORMING NOT ALLOWED

WALL FOOTING SCHEDULE				
MARK	WIDTH	THICKNESS	REINFORCING	COMMENTS
F16	1' - 4"	1' - 0"	#5 @ 12" EA WAY, BOT	
F24	2' - 0"	1' - 0"	#5 @ 12" EA WAY, BOT	

FOOTING NOTES:
1. CENTER FOOTINGS UNDER STEMWALLS, PILASTERS, & COLUMNS, TYPICAL UNLESS NOTED OTHERWISE
2. FOOTING WIDTHS SHALL NOT VARY IN THE FIELD FROM SIZE NOTED; OVERSIZE FOOTINGS ARE NOT ALLOWED
3. LAPPED BOARD FORMING NOT ALLOWED
4. TRENCHFORMING NOT ALLOWED

4 S-500 **FOOTING SCHEDULE**
1/2" = 1'-0"

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Δ	DATE	DESCRIPTION

Project Number:	223072.00
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Drawn By:	LB
Checked By:	BAR

Key Map

Drawing
TYPICAL CONCRETE DETAILS

S-500

SITE PLAN SUBMITTAL

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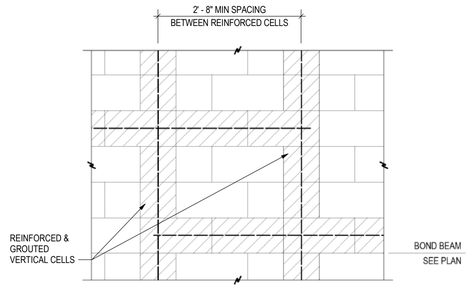
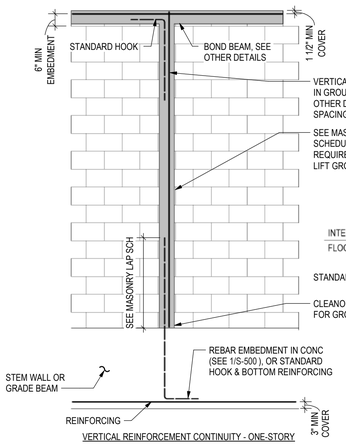
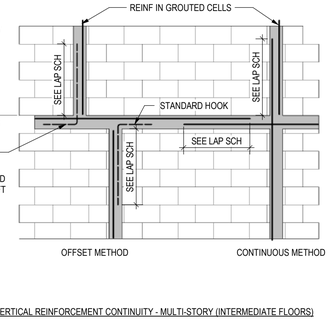


TYPICAL WHERE BOND BEAMS OVERLAP AT DIFFERENT HEIGHTS:
OVERLAP BOND BEAM REINFORCEMENT FROM ONE REINFORCED & GROUTED VERTICAL CELL TO THE NEXT ADJACENT REINFORCED & GROUTED VERTICAL CELL

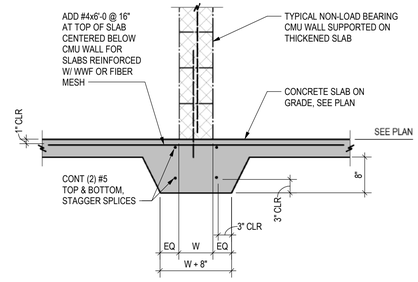


VERTICAL REINFORCEMENT CONTINUITY - ONE-STORY



VERTICAL REINFORCEMENT CONTINUITY - MULTI-STORY (INTERMEDIATE FLOORS)

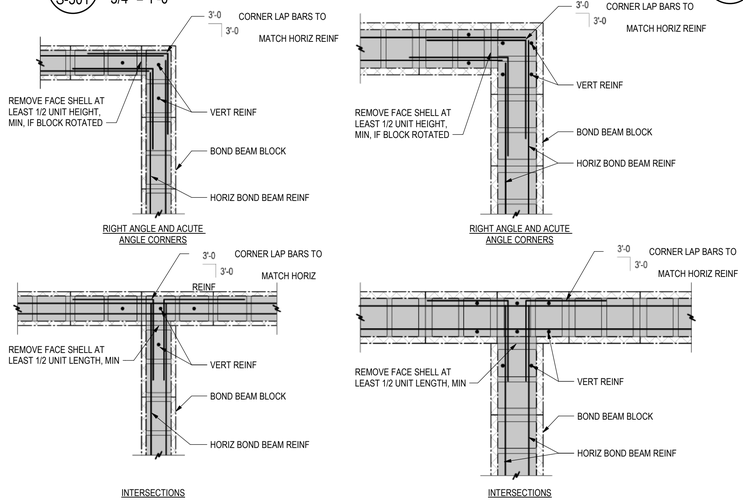
1. REINFORCE WITH #4 VERTICALS CENTERED IN WALL IN GROUTED CELLS AT CORNERS, JAMBS, WALL INTERSECTIONS, AND @ 8'-0 MAXIMUM
2. DOWEL WALL TO SLAB WITH #4 x 2'-4 DOWELS IN EPOXY FILLED HOLES (4" EMBED) LOCATE DOWELS TO MATCH VERTICAL BAR SPACING IN WALL
3. PROVIDE MASONRY LINTEL OVER WALL OPENINGS PER 5/S-501 OR 6/S-501
4. PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCING @ 16"
5. BRACE TOP OF PARTITIONS PER 4/S-502
6. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF PARTITIONS AND CONTROL JOINTS



TYPICAL 6" OR 8" NON-LOAD BEARING CMU WALL
(MAXIMUM HEIGHT = 15'-0")

7 S-501 TYP CMU BOND BEAM LAP

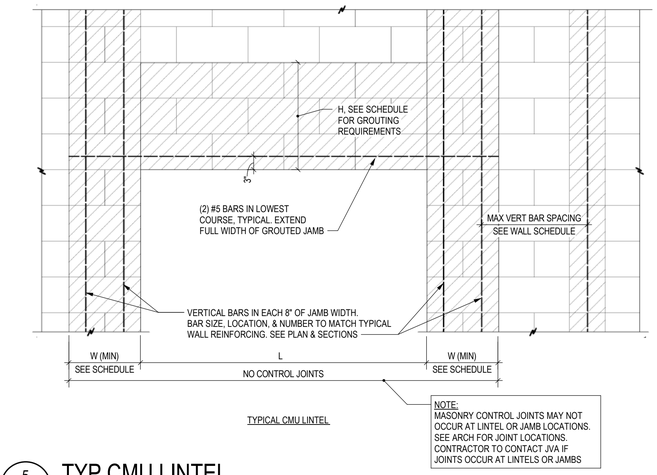
3/4" = 1'-0"



8 S-501 TYP CMU WALL CONTINUITY

3/8" = 1'-0"

TYPICAL MASONRY LINTELS OVER 4'-1 (UNO)		
L (OPENING WIDTH)	H (HEIGHT OF SOLID GROUTED LINTEL)	W (SOLID GROUTED JAMB WIDTH)
4'-1 TO 6'-0	2'-0	1'-4
6'-1 TO 10'-0	3'-4	2'-0



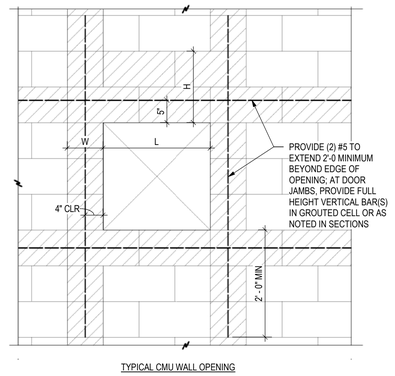
TYPICAL CMU LINTEL

NOTE:
MASONRY CONTROL JOINTS MAY NOT OCCUR AT LINTEL OR JAMB LOCATIONS. SEE ARCH FOR JOINT LOCATIONS. CONTRACTOR TO CONTACT JVA IF JOINTS OCCUR AT LINTELS OR JAMBS

9 S-501 TYP THICKENED SLAB AT NON-LOAD BEARING CMU WALLS

3/4" = 1'-0"

TYPICAL MASONRY LINTELS UP TO 6'-0 (UNO)		
L (OPENING WIDTH)	H (HEIGHT OF SOLID GROUTED LINTEL)	W (SOLID GROUTED JAMB WIDTH
UP TO 4'-0	1'-4	8"
4'-1 TO 6'-0	2'-0	1'-4



TYPICAL CMU WALL OPENING

4 S-501 TYP CMU WALL INTERSECTIONS

3/4" = 1'-0"

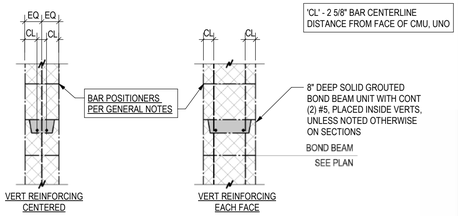
5 S-501 TYP CMU LINTEL

3/4" = 1'-0"

6 S-501 TYP CMU WALL OPENING

3/4" = 1'-0"

TYPICAL CMU WALL/REINFORCING ASSEMBLIES



STRUCTURAL MASONRY WALL SCHEDULE

MASONRY WALL SCHEDULE		
MARK	WIDTH	VERT REINF
MW8	7 5/8"	#5 @ 32"

1. VERTICAL REINFORCING INSTALLED FULL HEIGHT IN SOLID GROUTED VERTICAL CELLS AT SPACING SHOWN AND LOCATED AT OPENING JAMBS, VERTICAL CONTROL JOINTS (AS IN 1/S-502), WALL ENDS, CORNERS, AND INTERSECTIONS
2. STANDARD LADDER-TYPE CONTINUOUS HORIZONTAL JOINT REINFORCING VERTICALLY @ 16" UNLESS OTHERWISE NOTED
3. ADD BOND BEAMS AT ALL FLOOR AND ROOF ELEVATIONS AS NOTED IN SECTIONS AND AT ALL TOP OF WALL LOCATIONS, MAXIMUM VERTICAL SPACING = 8'-0.

1 S-501 TYP CMU WALL/REINF ASSEMEBLIES & SCHEDULE

3/4" = 1'-0"

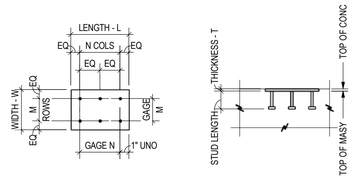
0 6" 1' 2' 3'

MASONRY LAP SPLICE LENGTH SCHEDULE						
	REINFORCING AT FACE		REINFORCING CENTERED			
BAR SIZE	CL	8" CMU & GREATER	6" CMU	8" CMU	10" CMU	12" CMU & GREATER
#3	2 5/8"	18"	18"	18"	18"	18"
#4	2 5/8"	24"	24"	24"	24"	24"
#5	2 5/8"	30"	30"	30"	30"	30"
#6	2 5/8"	54"	0" NP	36"	36"	36"
#7	2 5/8"	63"	0" NP	46"	42"	42"
#8	2 5/8"	0" CR	0" NP	0" NP	54"	48"
#9	2 5/8"	0" CR	0" NP	0" NP	0" CR	57"

NOTES:
1. REINFORCING STEEL fy = 60,000 PSI
2. MASONRY f'm = 2,000 PSI
3. DISTANCE FROM FACE OF MASONRY TO BAR CENTERLINE NOTED AS 'CL'
4. MECHANICAL COUPLER REQUIRED WHERE NOTED '0" CR'
5. BAR SIZE NOT PERMITTED WHERE NOTED '0" NP'
6. USE MECHANICAL COUPLER WHERE REQUIRED LAP LENGTH EXCEEDS GROUT LIFT HEIGHT
7. FOR EPOXY COATED BARS MULTIPLY TABLE VALUES BY 1.5
8. OPEN END MASONRY UNITS MAY BE USED AT VERTICAL REINFORCING LOCATIONS
9. WALL BRACING DESIGN AND IMPLEMENTATION SHALL BE BY CONTRACTOR

2 S-501 TYP CMU MASONRY LAP SPLICE LENGTH & SCHEDULE

NO SCALE



BEARING PLATE SCHEDULE					
BEARING PLATE		HEADED ANCHOR STUDS			
TYPE	T x W x L	HAS	M ROWS	N COLS	GAGE MxN
BP-1	PL1/2"x6"x1'-0"	(2)-1/2"Øx6"	1	2	0" x 8"
BP-2	PL1/2"x6"x10"	#4 BAR x 2'-0	1	2	0" x 8"
BP-3	PL1/2"x6"x1'-0"	#4 BAR x 2'-0	1	2	0" x 8"

3 S-501 TYP CMU BEARING PLATE

3/4" = 1'-0"

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Key Map

Drawing
TYPICAL CMU DETAILS

S-501

SITE PLAN SUBMITTAL
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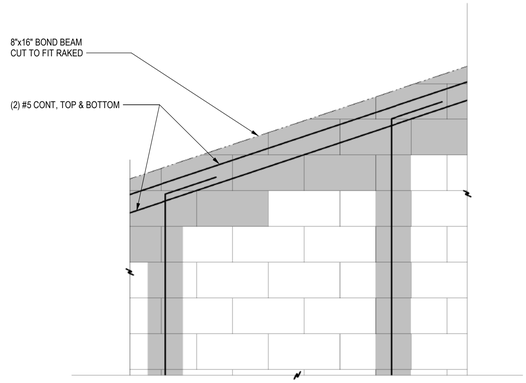
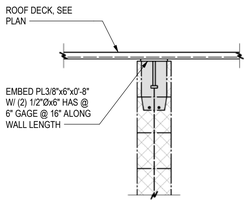
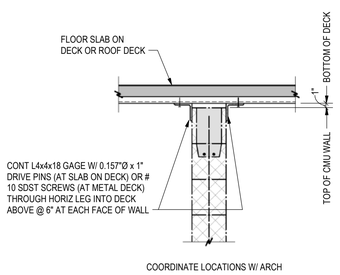
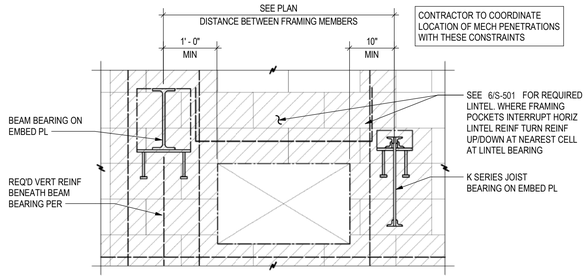


7 S-502 RAKED BOND BEAM
3/4" = 1'-0"



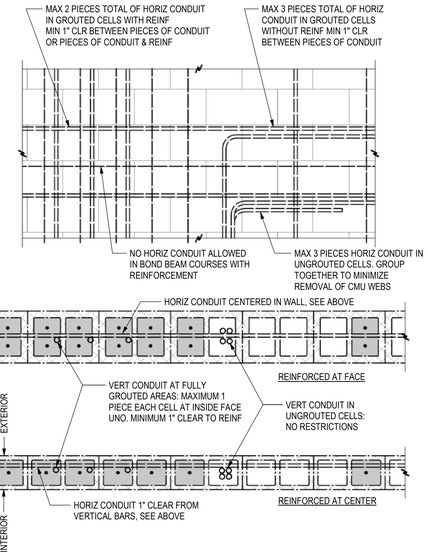
8 S-502 TYP DECK AT CMU BEARING WALL
3/4" = 1'-0"





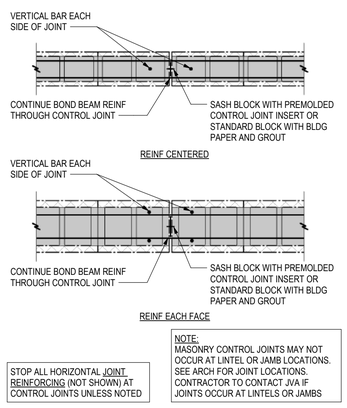
(APPLICABLE FOR PENETRATIONS 5'-0 WIDE OR LESS)

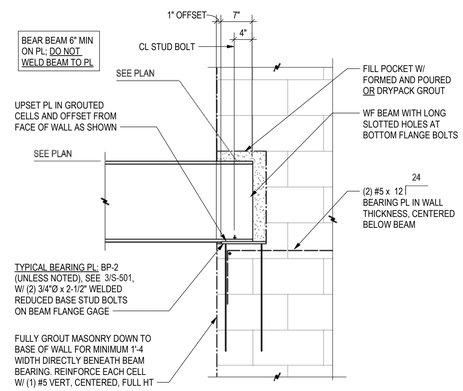
TYP CMU SPACING CONSTRAINTS OF MECH PENETRATIONS TO ROOF/FLOOR BEARING ON STRUCTURE

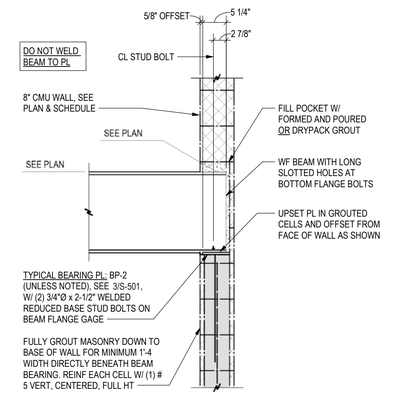


4 S-502 TYP CMU FULL HEIGHT PARTITION BRACING DETAIL
3/4" = 1'-0"

5 S-502 TYP CMU CONDUIT PLACEMENT IN WALL
3/4" = 1'-0"







1 S-502 TYP CMU VERT CONTROL JOINT IN WALL
3/4" = 1'-0"

0 6" 1' 2' 3'

2 S-502 TYP CMU BEAM BEARING ON PARALLEL WALL END
3/4" = 1'-0"

3 S-502 TYP CMU BEAM BRG ON PERPENDICULAR WALL
3/4" = 1'-0"

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Key Map

Drawing
TYPICAL CMU DETAILS

S-502

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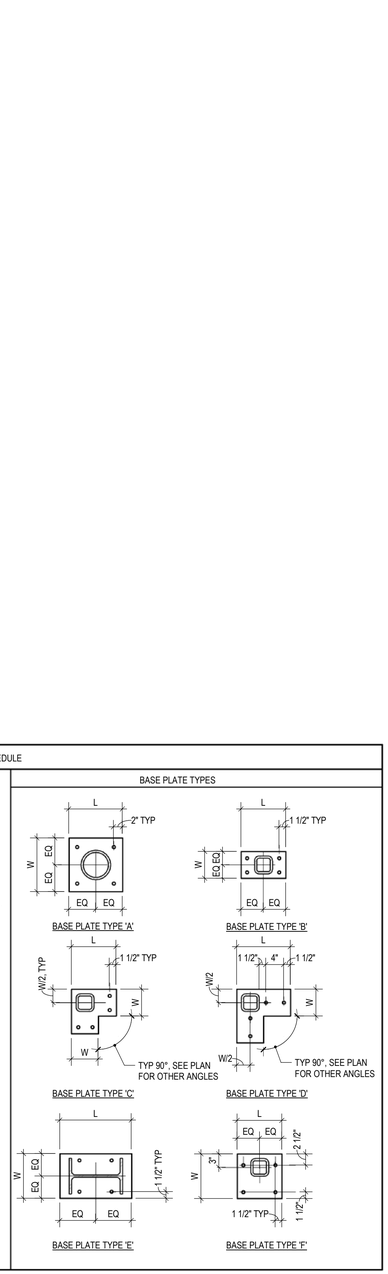
BASE PLATE SCHEDULE

BASE PLATE SCHEDULE					
MARK	TYPE	LENGTH	WIDTH	THICKNESS	COMMENTS
BPA	A	1' - 1"	1' - 1"	3/4"	
BPB	A	1' - 6"	1' - 6"	1"	

BASE PLATE TYPES



1 S-503 TYP STL BASE PLATE TYPES & SCHEDULE
NO SCALE

STL BEAM SHEAR TAB CONNECTION SCHEDULE - 3/4"Ø BOLTS (LRFD)								
BEAM SIZE	# OF 3/4"Ø BOLT ROWS	SHEAR TAB THICKNESS x LENGTH, SEE NOTE #14	FILLET WELD SIZE	CONNECTION CAPACITY -ØRn (KIPS)				REMARKS
				UNCOPED	SINGLE COPE 1	SINGLE COPE 2	DOUBLE COPE	
W8	2	3/8"x6"	1/4"	24.8	12.7	N/A	7.1	
W10	2	3/8"x6"	1/4"	24.8	20.1	N/A	7.9	
W12*	3	3/8"x9"	1/4"	43.4	32.6	15.5	18.7	
W14	3	3/8"x9"	1/4"	43.4	43.4	29.2	25.0	
W16**	4	3/8"x12"	1/4"	62.5	62.5	43.4	41.5	
W18	4	3/8"x12"	1/4"	62.5	62.5	62.5	62.5	
W21	5	3/8"x15"	1/4"	81.3	81.3	81.3	81.3	
W24	6	3/8"x18"	1/4"	100.0	100.0	100.0	100.0	

1. DESIGN BASIS OF SCHEDULE BASED ON AISC 14TH EDITION (ASD).
2. MINIMUM YIELD STRESS FY: PLATES - 36 KSI, W-SHAPES - 50 KSI, HSS SHAPES - 46 KSI.
3. MINIMUM TENSILE STRESS, FU: PLATES - 58 KSI, W-SHAPES - 65 KSI, HSS SHAPES - 58 KSI.
4. MINIMUM EDGE DISTANCE: VERTICAL EDGE DISTANCE Lev = 1 1/2", HORIZONTAL EDGE DISTANCE Leh = 1 1/2"
5. MINIMUM HSS WALL THICKNESS = 1/4"
6. ALL WELDS ARE TO USE E70XX ELECTRODES.
7. ALL BOLTS ARE TO BE A325-N BEARING TYPE BOLTS, EXCEPT CONNECTIONS DESIGNATED AS 'SC' ON PLANS ARE TO BE CLASS 'A' SLIP-CRITICAL JOINTS WITH F1852 TENSION-CONTROL BOLTS. NOTE THAT VALUES LISTED DO NOT APPLY TO THE SLIP-CRITICAL CONNECTIONS.
8. A325-N BOLTS ARE TO BE FULLY THREADED BEARING TYPE CONNECTIONS AND ARE TO BE INSTALLED TO A 'SNUG-TIGHT' CONDITION AS DEFINED IN THE AISC MANUAL OF STEEL CONSTRUCTION, UNLESS NOTED OTHERWISE.
9. STANDARD HOLES ARE TO BE PROVIDED IN SUPPORTED WEB.
10. SHORT-SLOTTED HOLES TO BE PROVIDED IN SHEAR TAB PLATES, UNLESS NOTED OTHERWISE.
11. BOLT SPACING = 3".
12. BEAM WEB DEPTH FOR DOUBLE COPE CONDITION MUST BE GREATER THAN OR EQUAL TO SHEAR TAB PLATE LENGTH. COPE BEAM ACCORDINGLY. (2" MAXIMUM AT W8-W24 AND 3" MAXIMUM AT W24-W40).
13. DETAILER TO INFORM ENGINEER OF COPE CONDITIONS NOT COMPLYING WITH CONDITIONS SHOWN IN DETAILS BELOW.
14. FOR SKEWED SHEAR TAB PLATE CONNECTIONS. WELD DETAILS ARE TO FOLLOW TABLE 10-14C, AISC 14TH EDITION.
15. SEE DETAILS BELOW FOR ADDITIONAL DETAILING REQUIREMENTS. THE CONNECTION ENGINEER IS TO BE NOTIFIED OF ANY FRAMING CONDITION WHICH DOES NOT MEET THE CRITERIA PROVIDED IN THIS SCHEDULE.
16. * PROVIDE 2 BOLTS WITH 6" LONG SHEAR TAB PLATE FOR W12 BEAM AT 'SINGLE COPE 2" CONDITION ONLY.
17. ** PROVIDE 3 BOLTS WITH 9" LONG SHEAR TAB PLATE FOR W16 BEAM AT 'SINGLE COPE 2" CONDITION ONLY.
18. N/A INDICATES CONDITION WHERE CONNECTION FRAMING TYPES OUTLINED IN THIS SCHEDULE TO NOT APPLY.
19. FOR ANY COLUMNS LARGER THAN A W18, THE ALTERNATE BEAM TO COLUMN WEB EXTENDED PLATE CONNECTION IS NOT APPLICABLE.
20. AT THE FOLLOWING COLUMNS PROVIDE 3/4" STIFFENER PLATES TOP AND BOTTOM AT THE ALTERNATE BEAM TO COLUMN WEB EXTENDED PLATE CONNECTION: W8X13, W8X15, W10X26, W10X30, W14X43, W14X48, W14X53, W16X57, W18X65 AND W18X71.

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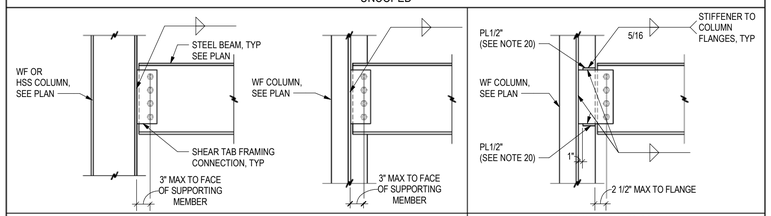
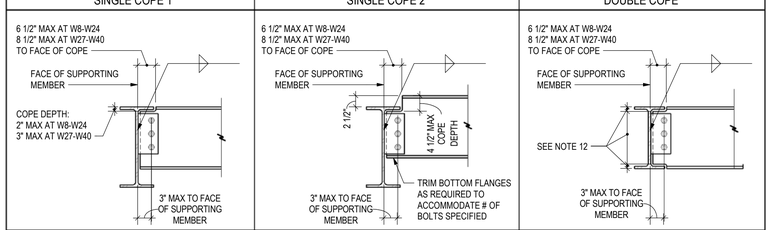


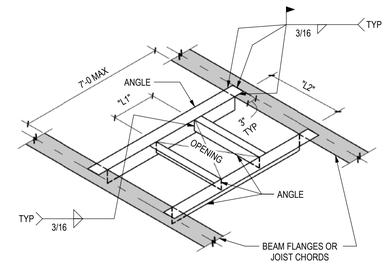
TYPICAL BEAM-TO-COLUMN CONNECTIONS

ALTERNATE BEAM-TO-COLUMN WEB EXTENDED PLATE CONNECTION (SEE NOTE 19 & 20)



TYPICAL BEAM-TO-BEAM CONNECTIONS

2 S-503 SCHEDULE
3/4" = 1'-0"



'L1' OR 'L2 (USE LARGER VALUE)	ANGLE SIZES	REMARKS
UP TO 1'-0	NONE REQUIRED	
UP TO 3'-0	L3-1/2x3-1/2x1/4	
UP TO 5'-0	L5x3x1/4 (LLV)	
UP TO 7'-0	L6x4x5/16 (LLV)	

- USE ABOVE FRAMING AT ALL FLOOR & ROOF OPENINGS WHERE EITHER "L1" OR "L2" EXCEEDS 1'-0" , UNLESS NOTED OTHERWISE
- VERIFY WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS

3 S-503 TYP STL AT ROOF OPENING
3/4" = 1'-0"

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Key Map

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TYPICAL STEEL DETAILS

S-503

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Page 257 of 313

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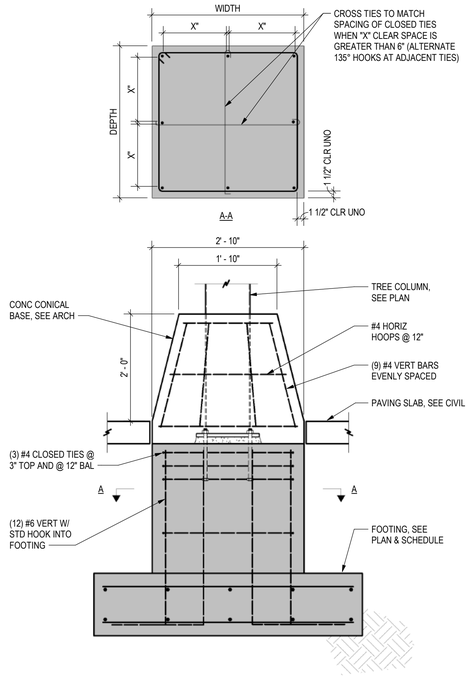
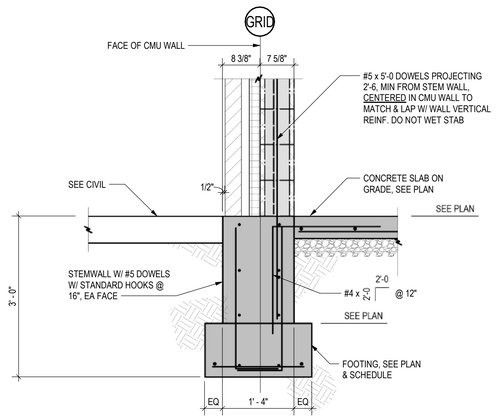
NOTES:
1. SEE PLANS AND DETAILS FOR TOP ELEVATIONS OF PIER CAPS, PILASTER AND/OR FOOTINGS
2. COLUMN VERTICAL REINFORCEMENT, TIES, AND SPLICES BE DETAILED TO CONFIRM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318" AND ACI 315" DETAILS AND DETAILING OF CONCRETE REINFORCEMENT
3. UNLESS SHOWN OTHERWISE IN THE PILASTER SCHEDULE, SQUARE AND RECTANGULAR PILASTERS SHALL HAVE EQUAL NUMBER OF VERTICAL BARS ON EACH COLUMN FACE
4. SQUARE AND RECTANGULAR COLUMN LAP SPLICES SHALL BE NORMAL LAP SPLICES (UNLESS NOTED OTHERWISE IN THE PILASTER SCHEDULE) WITH BARS OFFSET BENT IN THE SHOP TOWARD THE INTERIOR OF THE COLUMN
5. THE SLOPE OF THE INCLINED PORTION OF AN OFFSET BAR WITH THE AXIS OF THE COLUMN SHALL NOT EXCEED 1 IN 6. PORTIONS OF THE BAR ABOVE AND BELOW AN OFFSET SHALL BE PARALLEL TO THE AXIS OF THE COLUMN. OFFSET BARS SHALL BE BENT BEFORE PLACEMENT IN THE FORMS. WHERE A COLUMN FACE IS OFFSET 3 INCHES OR MORE, LONGITUDINAL BARS SHALL NOT BE OFFSET BENT. SEPARATE DOWELS, LAP SPLICED WITH THE LONGITUDINAL BARS ADJACENT TO THE OFFSET COLUMN FACES, SHALL BE PROVIDED. SEE COLUMN SPLICE DETAILS



4 S-510 **SECTION**
3/4" = 1'-0"



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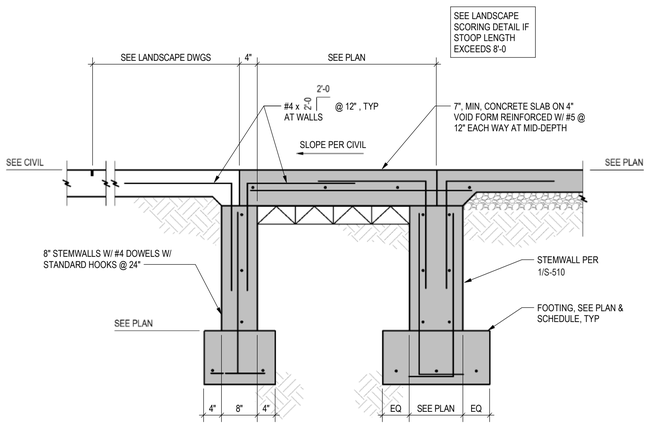

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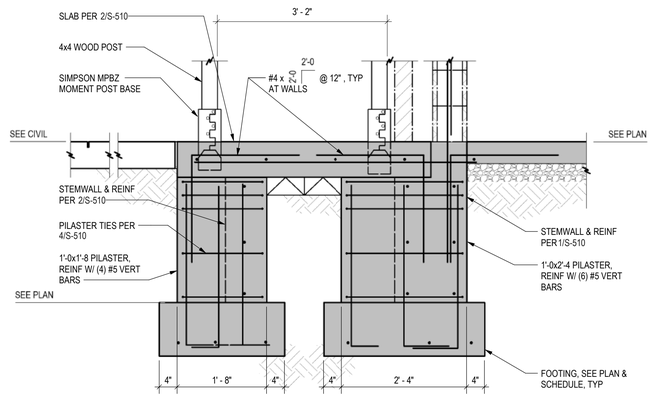

3 S-510 **SECTION**
3/4" = 1'-0"

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Key Map

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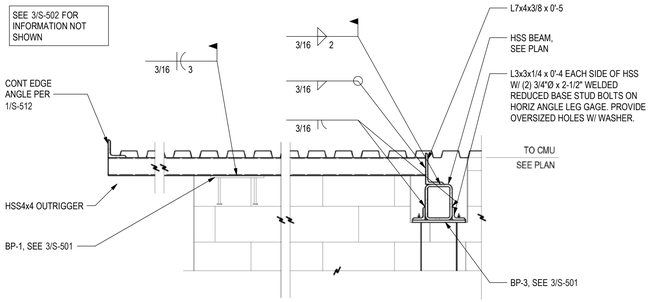
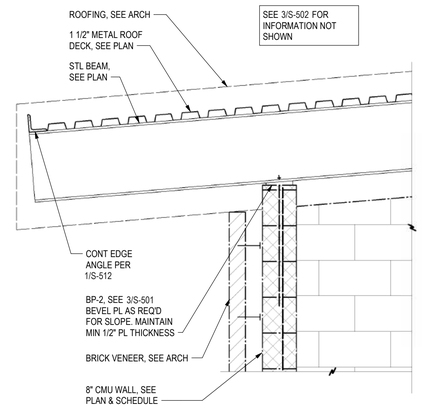


7 S-512 OUTRIGGER AT CMU WALL W/ HSS GIRT
3/4" = 1'-0"



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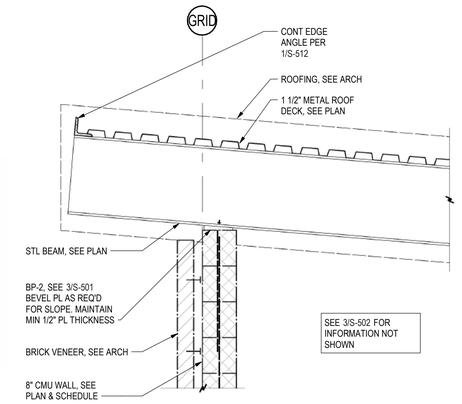

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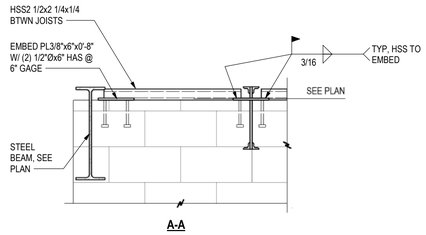

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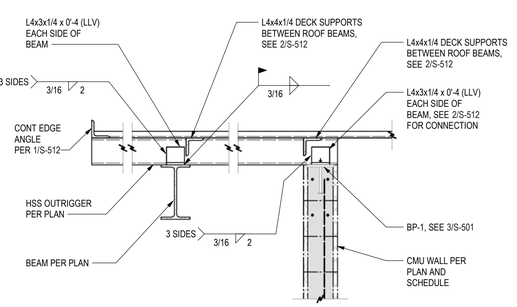

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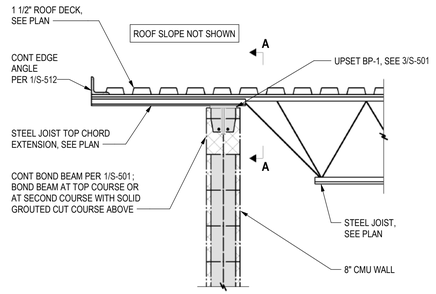

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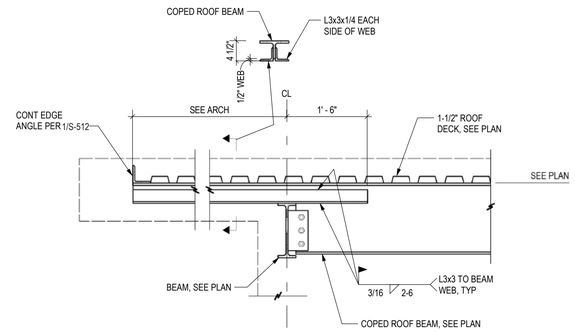
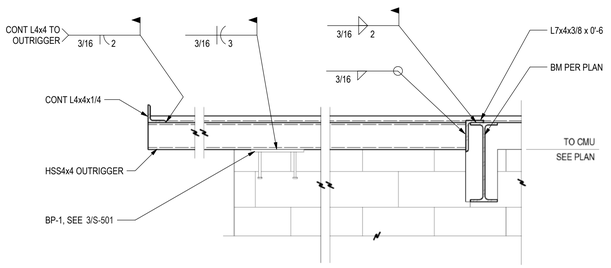
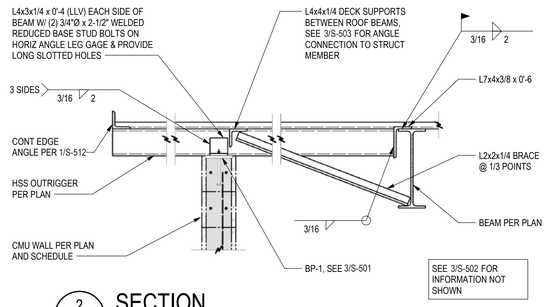
3/4" = 1'-0"



6 S-512 SECTION
3/4" = 1'-0"



1 S-512 OUTRIGGER AT CMU WALL
3/4" = 1'-0"



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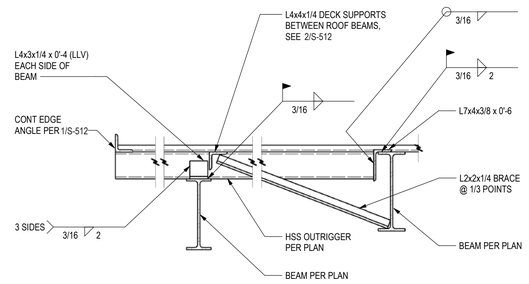

3 S-512 SECTION
3/4" = 1'-0"

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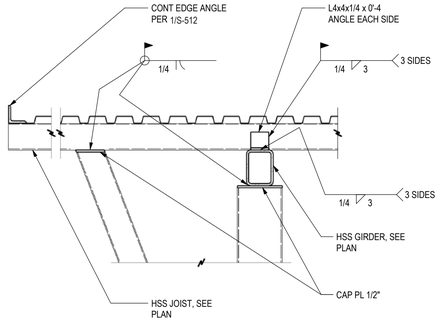

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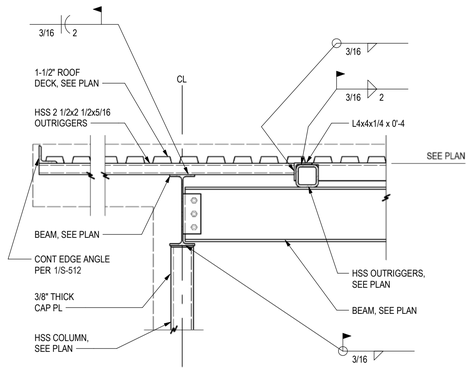

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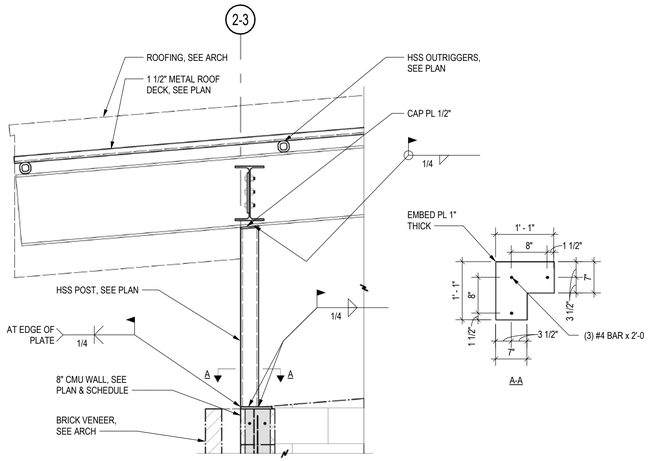

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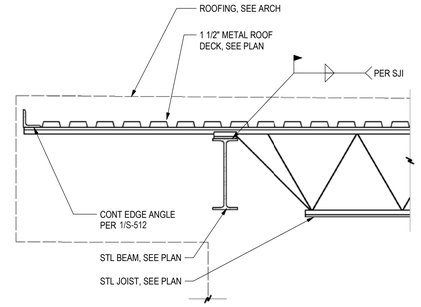

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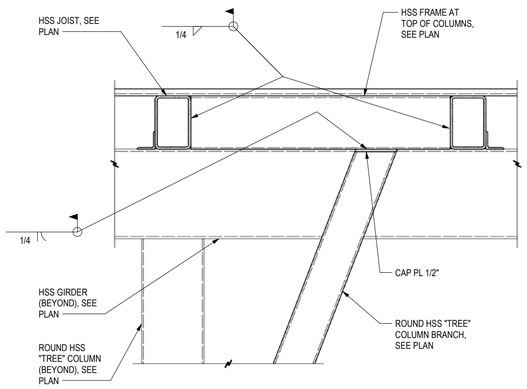
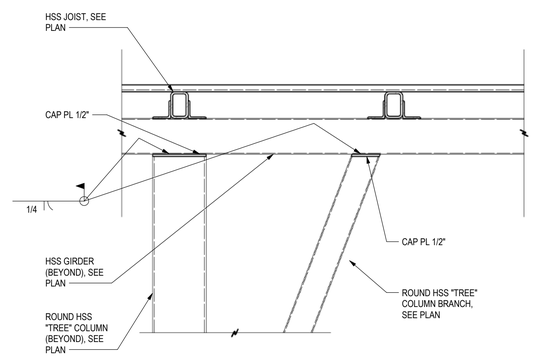


1 S-513 **SECTION**
3/4" = 1'-0"
0 6" 1' 2' 3'



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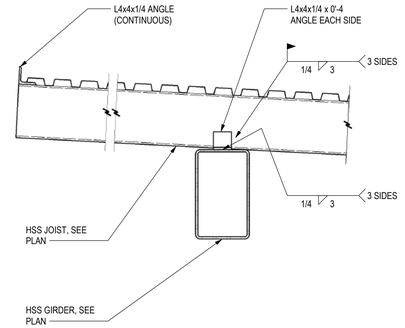

3 S-513 **SECTION**
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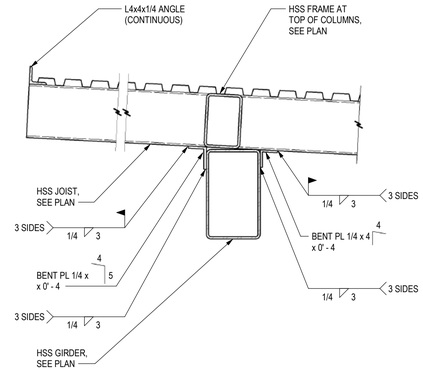

4 S-513 **SECTION**
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FINISH SYMBOL LEGEND

XXX WALL FINISH SYMBOL

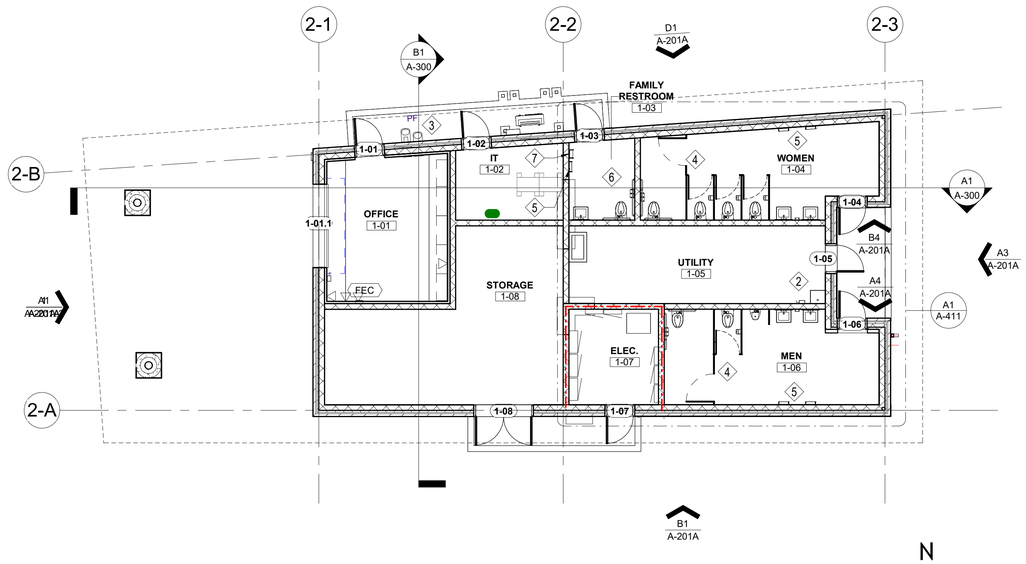
SHEET NOTE SYMBOL

FLOOR PLAN GENERAL NOTES

1. REFER TO FINISH PLANS FOR INTERIOR ELEVATION CALLOUTS.
2. PROVIDE PAINTED ACCESS PANELS IN WALLS & GYPSUM BOARD CEILINGS AT CONCEALED ITEMS (VALVES, CONTROLS, SWITCHES, AND ANY OTHER ITEM THAT REQUIRES ACCESS. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
3. AT GANG TOILETS AND SINGLE OCCUPANT TOILET ROOMS, SET FLOOR DRAINS IN A 24" HAND TROWELED DEPRESSION WITH DRAIN ASSEMBLY IN CENTER OF DEPRESSION, 1/4" BELOW SURROUNDING TOP OF SLAB ELEVATION; SLOPE FLOOR AT DEPRESSION SO AS NOT TO HAVE DRAINS DIRECTLY UNDER LEGS OF TOILET PARTITIONS.
4. VERIFY & COORDINATE ALL REQUIREMENTS FOR OWNER FURNISHED ITEMS PRIOR TO PERFORMANCE OF WORK.
5. REFER TO A-511 FOR ASSEMBLY TYPE TAGS SHOWN ON PLANS CORRESPONDING WITH EXTERIOR WALL AND ROOF ASSEMBLIES.

SHEET NOTES - CONSTRUCTION PLANS

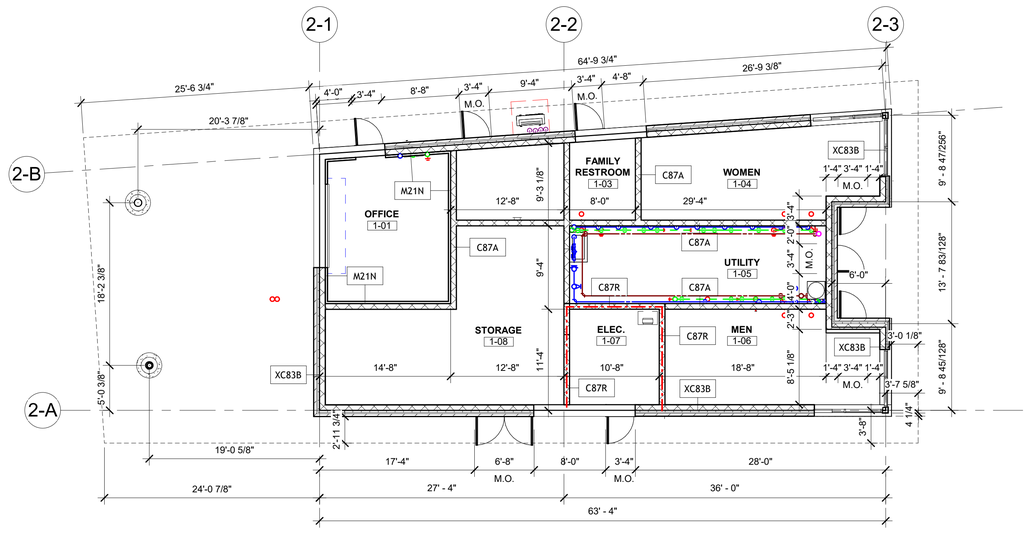
NOTE #	NOTE
1	NOT USED
2	MOP SINK
3	HI-LO DRINKING FOUNTAIN AND WATER BOTTLE FILLER
4	TOILET PARTITIONS
5	ELECTRIC HAND DRYER
6	CHILD CHANGING TABLE
7	CHILD PROTECTION SEAT
8	MOTORIZED ADULT CHANGING TABLE
9	FRP AT GYP. WALL, RE: A-140 FINISH SCHEDULE



A1 HEADQUARTERS & RESTROOM BUILDING - FLOOR PLAN - PHASE 1

A-310 A-111A 1/8" = 1'-0"

N



A3 HEADQUARTERS & RESTROOM BUILDING - DIMENSION FLOOR PLAN

A-201A A-111A 1/8" = 1'-0"

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Town of Parker

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ARCHITECTURE

LANDSCAPE ARCHITECTURE

PLANNING

INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number:	223072.00
Sheet Issue Date:	2025-05-02
Drawn By:	ST
Checked By:	LG

Key Map

Drawing

HEADQUARTERS & RESTROOM - FLOOR PLANS

A-111A

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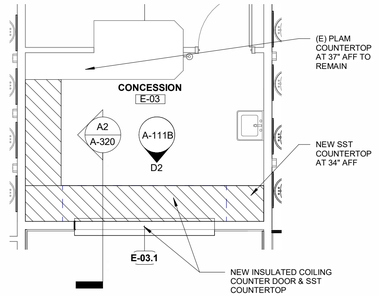
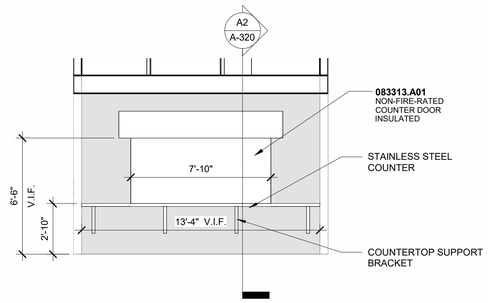


D1 EXISTING CONCESSIONS BUILDING - FLOOR PLAN

A-111B A-111B 1/4" = 1'-0"



D2 EXISTING CONCESSIONS - SOUTH ELEVATION

A-111B A-111B 1/4" = 1'-0"

D4 EXISTING CONCESSIONS INTERIOR PHOTO

A-111B 1/8" = 1'-0"

DEMOLITION GENERAL NOTES

1. GENERAL CONTRACTOR TO COORDINATE SCHEDULING ALL WORK WITH OWNER.
2. WORK LABELED (NIC), OR OTHERWISE NOT NOTED IS NOT IN CONTRACT FOR ANY ARCHITECTURAL IMPROVEMENTS.
3. THE GENERAL CONTRACTOR & THEIR SUBCONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS WITH CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS AND SHALL REPORT ANY DEVIATIONS, DISCREPANCIES AND/OR CONFLICTS TO ARCHITECT.
4. THE GENERAL CONTRACTOR & SUBCONTRACTOR SHALL TAKE EXTREME CARE DURING DEMOLITION NOT TO DAMAGE OR DISTURB ANY EXISTING CONDITIONS THAT ARE TO REMAIN. GENERAL CONTRACTOR OR SUBCONTRACTOR SHALL REPAIR ANY DAMAGE OR DISTURBANCE TO EXISTING CONDITIONS AT NO COST TO THE OWNER.
5. PROVIDE PROTECTION FOR FLOORS, WALLS, & CEILING AT ALL EXISTING CONDITIONS TO REMAIN, INCLUDING TRAFFIC AREA FOR DEMOLITION REMOVAL IN COMMON BUILDING AREAS & FREIGHT ELEVATORS. DAMAGED FLOORS WILL BE REPLACED @ NO COST TO OWNER.
6. REMOVE ALL WALLS, DOORS (AND OTHER ITEMS) SHOWN DASHED - FIELD VERIFY CONSTRUCTION OF ALL WALLS TO BE REMOVED - PROVIDE SHORING AND BRACING AS REQUIRED.
7. REFER TO SPECIFICATIONS REGARDING; EXISTING CONDITIONS, CUTTING AND PATCHING AND SELECTIVE DEMOLITION REQUIREMENTS THAT APPLY TO ALL WORK KEY NOTES DESCRIBED ON THIS SHEET.
8. COORDINATE W/ BUILDING OWNER DURING DEMOLITION TO DETERMINE WHETHER EXISTING FIRE & SMOKE DETECTION SYSTEMS ARE TO BE BAGGED, PROTECTED & REMAIN IN OPERATION OR TO BE TAKEN OFF LINE.
9. AREAS OF DEMOLITION SHALL BE FREE OF (FURNITURE AND MOBILE EQUIPMENT AND ACCESSORIES) PRIOR TO START OF WORK.

FLOOR PLAN GENERAL NOTES

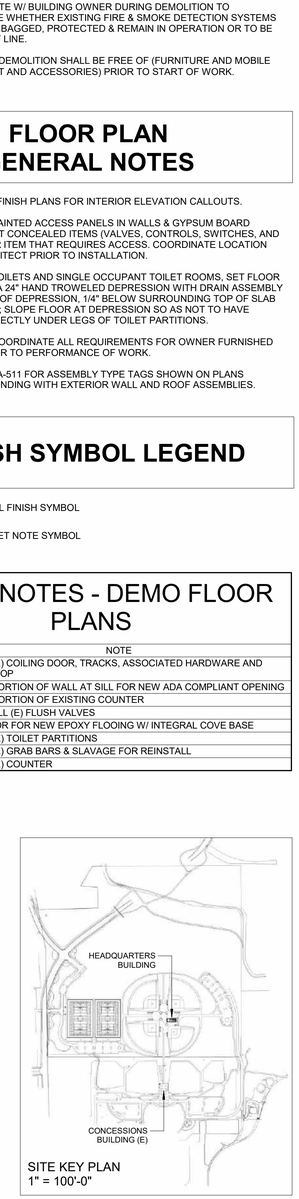
1. REFER TO FINISH PLANS FOR INTERIOR ELEVATION CALLOUTS.
2. PROVIDE PAINTED ACCESS PANELS IN WALLS & GYPSUM BOARD CEILINGS AT CONCEALED ITEMS (VALVES, CONTROLS, SWITCHES, AND ANY OTHER ITEM THAT REQUIRES ACCESS. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
3. AT GANG TOILETS AND SINGLE OCCUPANT TOILET ROOMS, SET FLOOR DRAINS IN A 24" HAND TROWELED DEPRESSION WITH DRAIN ASSEMBLY IN CENTER OF DEPRESSION, 1/4" BELOW SURROUNDING TOP OF SLAB ELEVATION; SLOPE FLOOR AT DEPRESSION SO AS NOT TO HAVE DRAINS DIRECTLY UNDER LEGS OF TOILET PARTITIONS.
4. VERIFY & COORDINATE ALL REQUIREMENTS FOR OWNER FURNISHED ITEMS PRIOR TO PERFORMANCE OF WORK.
5. REFER TO A-511 FOR ASSEMBLY TYPE TAGS SHOWN ON PLANS CORRESPONDING WITH EXTERIOR WALL AND ROOF ASSEMBLIES.

FINISH SYMBOL LEGEND

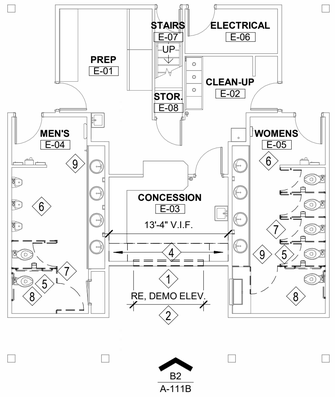
XXX WALL FINISH SYMBOL

SHEET NOTES - DEMO FLOOR PLANS

NOTE #	NOTE
1	REMOVE (E) COILING DOOR, TRACKS, ASSOCIATED HARDWARE AND COUNTERTOP
2	REMOVE PORTION OF WALL AT SILL FOR NEW ADA COMPLIANT OPENING
4	REMOVE PORTION OF EXISTING COUNTER
5	REMOVE ALL (E) FLUSH VALVES
6	PREP FLOOR FOR NEW EPOXY FLOOING W/ INTEGRAL COVE BASE
7	REMOVE (E) TOILET PARTITIONS
8	REMOVE (E) GRAB BARS & SLAVAGE FOR REINSTALL
9	REMOVE (E) COUNTER

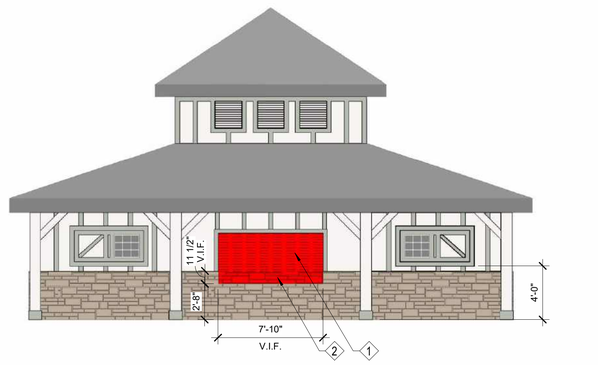


SITE KEY PLAN
1" = 100'-0"



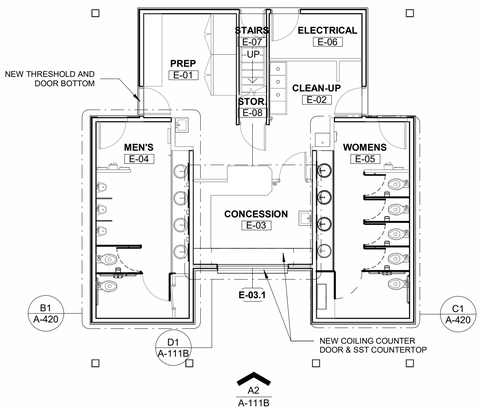
B1 EXISTING CONCESSIONS BUILDING - DEMO FLOOR PLAN

A-201 A-111B 1/8" = 1'-0"



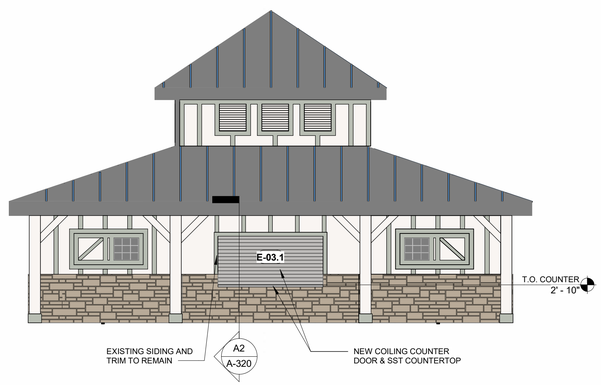
B2 EXISTING CONCESSIONS BUILDING - DEMOLITION ELEVATION

A-111B A-111B 3/16" = 1'-0"



A1 EXISTING CONCESSIONS BUILDING - FLOOR PLAN

A-201 A-111B 1/8" = 1'-0"



A2 EXISTING CONCESSIONS BUILDING - ELEVATION

A-111B A-111B 3/16" = 1'-0"

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Project Number:	223072.00
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Checked By:	LG

Key Map

Drawing

EXISTING CONCESSIONS BUILDING - FIRST FLOOR PLAN

A-111B

SITE PLAN SUBMITTAL
Page 262 of 313

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FINISH LEGEND

FINISH DIVISION	CSI SECTION NUMBER	CSI SECTION NAME	TYPE	CODE	MANUFACTURER	PRODUCT	SIZE	COLOR	REMARKS
DIVISION 3									
DIVISION 3	03 3000	CAST-IN-PLACE CONCRETE	LIQUID FLOOR TREATMENT (DENSIFIED CONCRETE)	DC-1	TBD	RE: SPECS	-	NATURAL	
DIVISION 6									
DIVISION 6	06 6400	PLASTIC PANELING	FIBER-REINFORCED PANEL	FRP-1	MARLITE	SMOOTH TEXTURE	4' SHEETS	WHITE	
DIVISION 9									
DIVISION 9	09 6513	RESILIENT BASE AND ACCESSORIES	RESILIENT BASE	RB-1	ROPPE	RUBBER BASE	4" COVE, ROLLED GOODS	LUNAR DUST 114	
DIVISION 9	09 6723	POURED RESINOUS FLOORING	EPOXY FLOORING SYSTEM	EPF-1	STONHARD	STONSHIELD SLT	-	GLACIER MEDIUM TEXTURE	4" INTEGRAL BASE
DIVISION 9	09 9123	INTERIOR PAINTING	PAINT (FIELD)	P-1	SHERWIN WILLIAMS	SEMI-GLOSS	-	CREAMY SW7012	
DIVISION 9	09 9123		EPOXY PAINT (TOILET ROOM FIELD)	P-1A	SHERWIN WILLIAMS	SEMI-GLOSS	-	CREAMY SW7012	
DIVISION 9	09 9123		EPOXY PAINT TOILET ROOM ACCENT	P-2A	SHERWIN WILLIAMS	SEMI-GLOSS		DUTCH TILE BLUE SW0031	
DIVISION 9	09 9123		PAINT (CEILING)	P-3	SHERWIN WILLIAMS	FLAT (EGGSHELL AT TOILET ROOMS)	-	CEILING BRIGHT WHITE SW7007	
DIVISION 9	09 9123		PAINT (OPEN STRUCTURE, METAL DOORS & HM DOOR FRAMES)	P-4	SHERWIN WILLIAMS	SEMI-GLOSS	-	DOVETAIL SW7018	
DIVISION 12									
DIVISION 12	12 3216	MANUFACTURED PLASTIC-LAMINATE-FACED CASEWORK	PLASTIC-LAMINATE CASEWORK (UPPER & BASE CABINETS)	PL-1	FORMICA	HPL PLASTIC LAMINATE	-	BEIGE ELM 5794-NG	
DIVISION 12	12 3616	METAL COUNTERTOPS	STAINLESS STEEL COUNTERTOP	SST-1	TBD	TBD		STAINLESS STEEL	CONCESSIONS
DIVISION 12	12 3661.16	SOLID SURFACING COUNTERTOPS	SOLID SURFACE COUNTERTOP	SS-1	CORIAN	SOLID SURFACE	-	ELEGANT GRAY	

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FINISH			MILLWORK		MISCELLANEOUS	REMARKS
		FLOOR	BASE	WALL	HORIZ.	VERT.		
1-01	OFFICE	DC-1	RB-1	P-1	SS-1, SST-1	PL-1		SS-1 AT CASEWORK, SST-1 AT COILING DOOR
1-02	IT	DC-1	-	P-1				
1-03	FAMILY RESTROOM	EPF-1	EPF-1, 4" INTEGRAL BASE	P-1A, P-2A				
1-04	WOMEN	EPF-1	EPF-1, 4" INTEGRAL BASE	P-1A, P-2A				
1-05	UTILITY	DC-1	-	-				EXPOSED CMU TO REMAIN UNPAINTED
1-06	MEN	EPF-1	EPF-1, 4" INTEGRAL BASE	P-1A, P-2A				
1-07	ELEC.	DC-1	-	-				EXPOSED CMU TO REMAIN UNPAINTED
1-08	STORAGE	DC-1	-	-				EXPOSED CMU TO REMAIN UNPAINTED
E-03	CONCESSION	-	-	-	SST-1	-		STAINLESS STEEL COUNTER WHERE SPECIFIED
E-04	MEN'S	EPF-1	EPF-1, 4" INTEGRAL BASE	P-1A, P-2A				PAINT CEILING P-5
E-05	WOMENS	EPF-1	EPF-1, 4" INTEGRAL BASE	P-1A, P-2A				PAINT CEILING P-5

TOILET ACCESSORY SCHEDULE

ITEM	Description	Manufacturer	Model	PROVIDED BY	INSTALLED BY
BC1	BABY CHANGING STATION	KOALA KARE	KB110-SSRE	CONTRACTOR	CONTRACTOR
BC2	CHILD PROTECTION SEAT	KOALA KARE	KB102-01	CONTRACTOR	CONTRACTOR
GB1	36", 42", 12" GRAB BARS	BOBRICK	B-5806	CONTRACTOR	CONTRACTOR
HD1	ELECTRIC HAND DRYER	GLOBAL INDUSTRIAL	641565	CONTRACTOR	CONTRACTOR
MI1	MIRROR	BOBRICK	B-165	CONTRACTOR	CONTRACTOR
SD1	SOAP DISPENSER	BOBRICK	B-2111	OWNER	CONTRACTOR
TP1	TOILET PAPER DISPENSER	BOBRICK	B-2892	<varies>	<varies>

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Δ	DATE	DESCRIPTION

Project Number: 223072.00

Sheet Issue Date: 2025-05-02

Drawn By: MB

Checked By: LG

Key Map

Drawing

FINISH SCHEDULE

A-140

SITE PLAN SUBMITTAL

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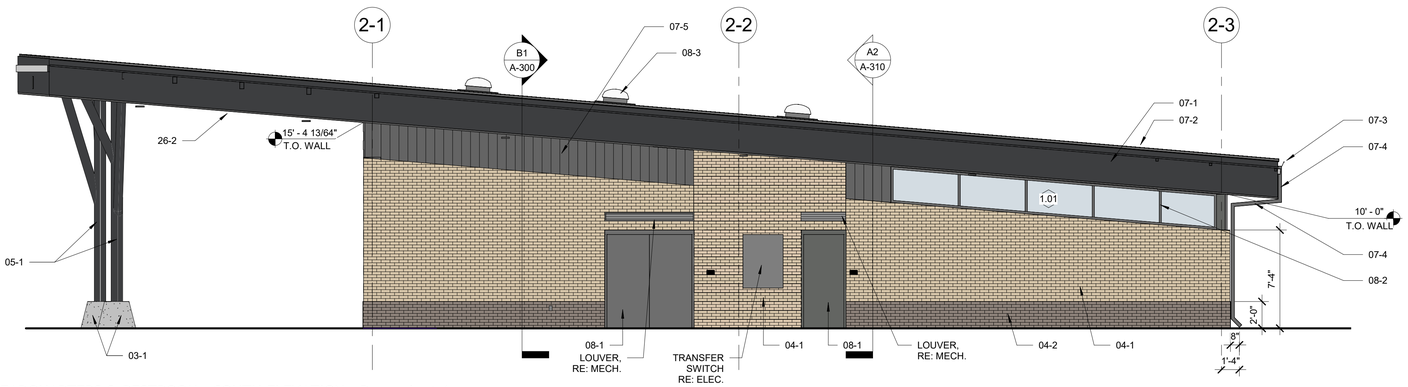
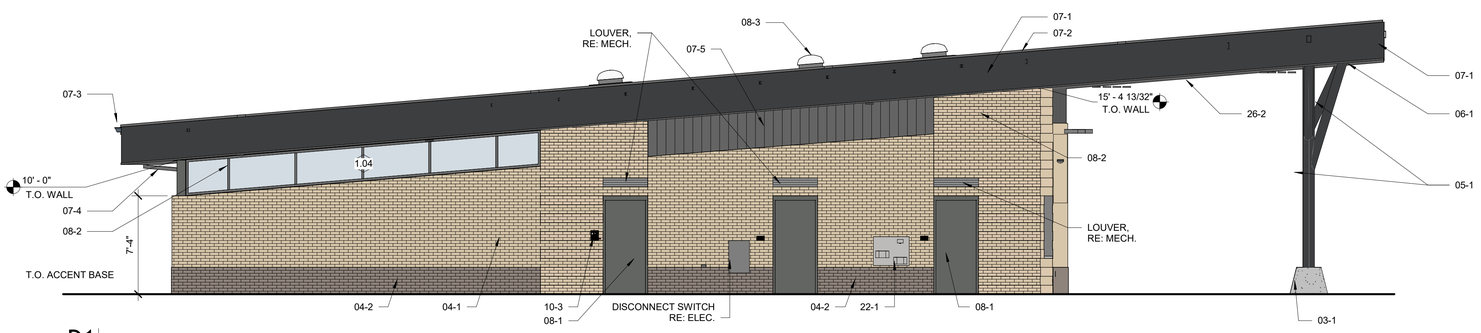
MATERIALS LEGEND

	DESCRIPTION
03-1	CAST-IN-PLACE STRUCTURAL CONCRETE COLUMN BASE
04-1	BRICK VENEER - MODULAR (2-1/4X4X8), INTERSTATE BRICK, COLOR: ALMOND
04-2	BRICK VENEER - MODULAR (2-1/4X4X8), INTERSTATE BRICK, COLOR: PLATINUM
05-1	STRUCTURAL STEEL PIPE COLUMN PAINTED WITH HIGH PERFORMANCE COATING
07-1	PRE-FINISHED SHEET METAL FASCIA, COLOR TO MATCH MORIN ZINC GRAY
07-2	PRE-FINISHED SHEET METAL STANDING SEAM BOD: MORIN SYMMETRY SYM-12-0 WITH 2" SEAMS, 22 GA
07-3	PRE-FINISHED SHEET METAL GUTTER
07-4	PRE-FINISHED SHEET METAL DOWNSPOUT, COLOR TO MATCH FASCIA
07-5	PRE-FINISHED METAL PANEL, BOD: MORIN MATRIX MX-6, 22 GA. COLOR: ZINC GRAY
07-6	CEMENT BOARD SOFFIT
08-1	HOLLOW METAL DOOR AND FRAME, PAINTED
08-2	HOLLOW METAL FRAME AND GLAZING, PAINTED
08-3	21" TUBULAR SKYLIGHT
08-4	INSULATED STEEL SECTIONAL DOOR 9'-4"W X 8'H
08-5	INSULATED SST SECTIONAL COUNTER DOOR 8'W X 4'H
10-1	ALUMINUM DIMENSIONAL LETTER SIGNAGE
10-2	PROPOSED ENVIRONMENTAL GRAPHIC
10-3	ACRYLIC ROOM PANEL SIGNAGE
22-1	WALL MOUNTED DRINKING FOUNTAINS AND BOTTLE FILLER
26-1	WALL MOUNTED LIGHTING
26-2	SOFFIT MOUNTED LIGHTING



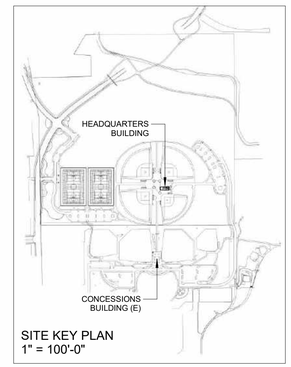
B1 HEADQUARTERS & RESTROOM - SOUTH ELEVATION - Dependent 1

A-111A-201A.1 3/16" = 1'-0"



D1 HEADQUARTERS & RESTROOM - NORTH ELEVATION - Dependent 1

A-201A-201A.1 3/16" = 1'-0"



SITE KEY PLAN
1" = 100'-0"

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Checked By:	LG

Key Map

Drawing

HEADQUARTERS & RESTROOM BUILDING - EXTERIOR ELEVATIONS SDP

A-201A.1

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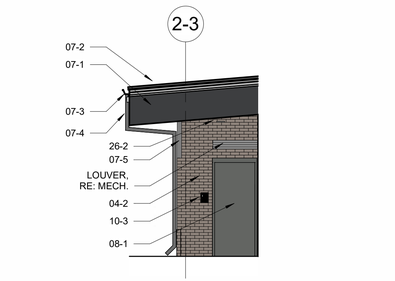
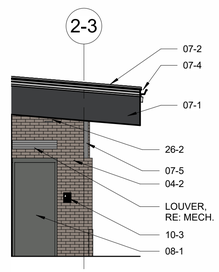


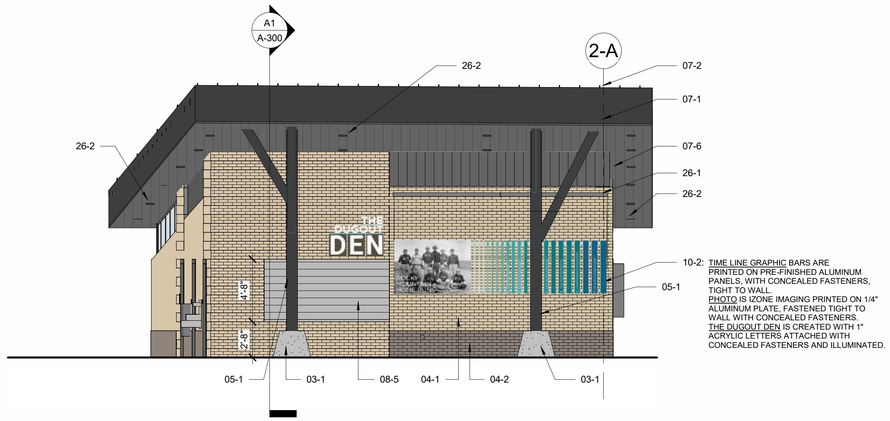
C1 HQ TOILET ROOM ENTRY - NORTH ELEVATION

A-201A-201A.2 3/16" = 1'-0"



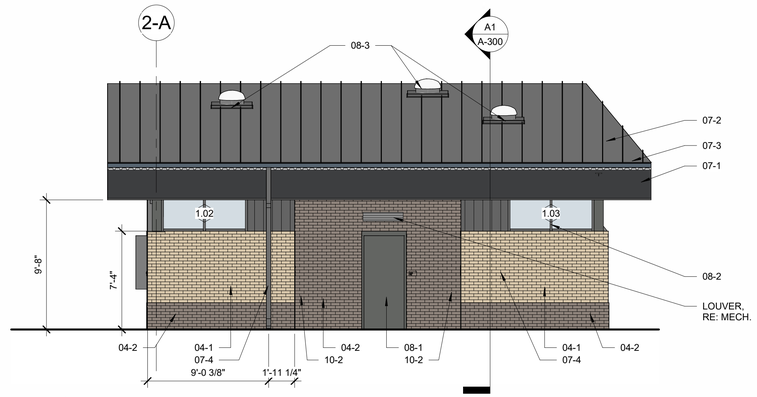
C3 HQ TOILET ROOM ENTRY - SOUTH ELEVATION

A-201A-201A.2 3/16" = 1'-0"



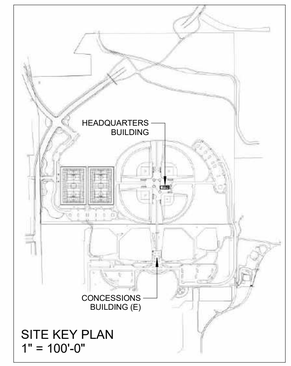
A1 HEADQUARTERS & RESTROOM - WEST ELEVATION

A-111A-201A.2 3/16" = 1'-0"



A3 HEADQUARTERS & RESTROOM - EAST ELEVATION

A-111A-201A.2 3/16" = 1'-0"



SITE KEY PLAN
1" = 100'-0"

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	DESCRIPTION
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08-3	21" TUBULAR SKYLIGHT
08-4	INSULATED STEEL SECTIONAL DOOR 9'-4"W X 8'H
08-5	INSULATED SST SECTIONAL COUNTER DOOR 8'W X 4'H
10-1	ALUMINUM DIMENSIONAL LETTER SIGNAGE
10-2	PROPOSED ENVIRONMENTAL GRAPHIC
10-3	ACRYLIC ROOM PANEL SIGNAGE
22-1	WALL MOUNTED DRINKING FOUNTAINS AND BOTTLE FILLER
26-1	WALL MOUNTED LIGHTING
26-2	SOFFIT MOUNTED LIGHTING

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Key Map

Drawing

HEADQUARTERS & RESTROOM BUILDING - EXTERIOR ELEVATIONS SDP

A-201A.2

SITE PLAN SUBMITTAL

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Key Map

Drawing

HEADQUARTERS & COMMUNITY HUB PAVILION 3D VIEWS

A-202

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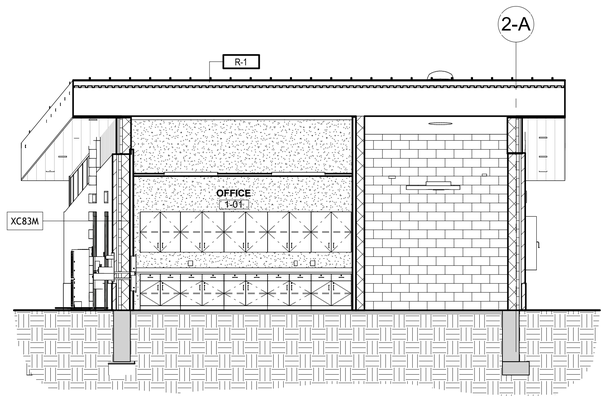
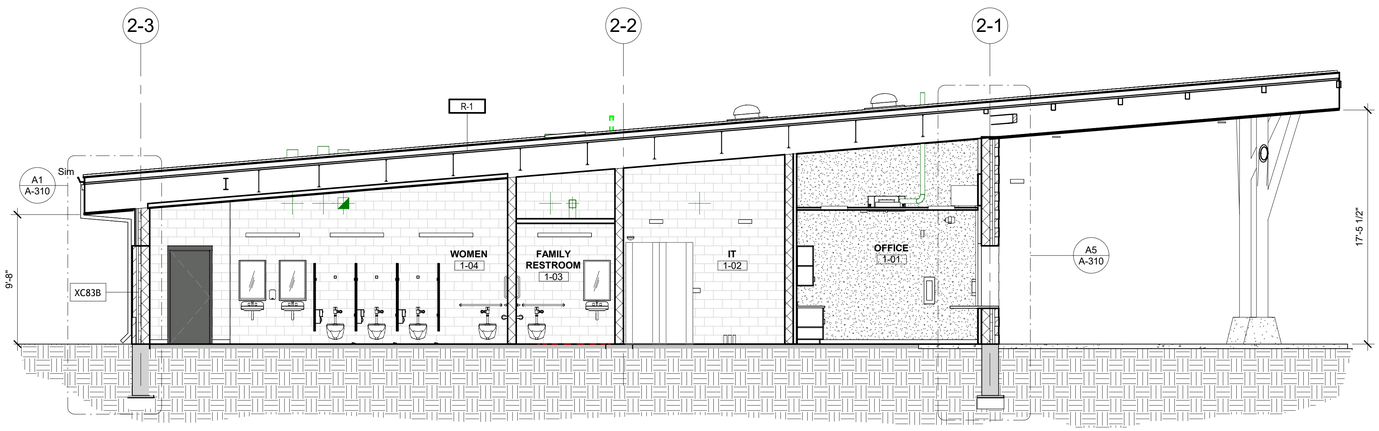


B1 HEADQUARTERS NORTH/SOUTH BUILDING SECTION

A-111A| A-300 3/16" = 1'-0"



A1 HEADQUARTERS EAST/WEST BUILDING SECTION

A-111A| A-300 3/16" = 1'-0"

5/2/2025 10:25:34 AM

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Key Map

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BUILDING SECTIONS - HEADQUARTERS BUILDING

A-300

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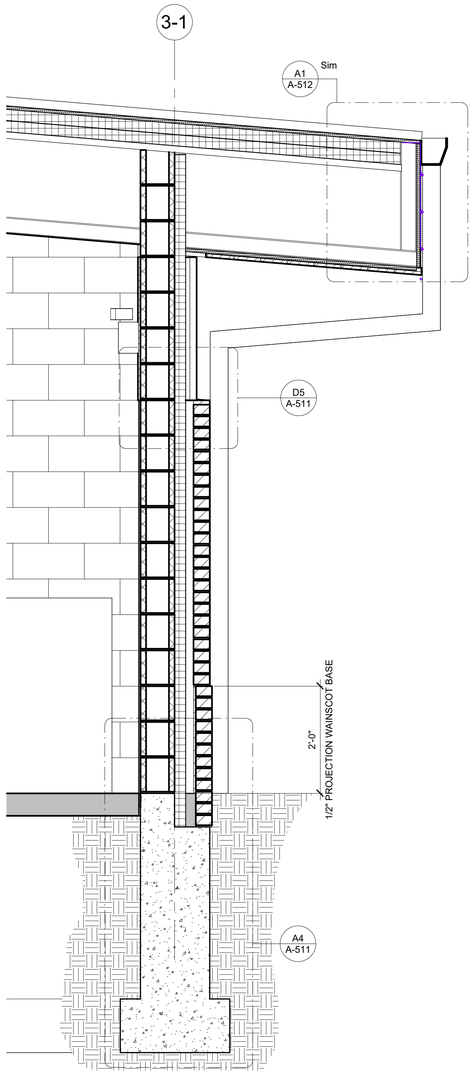
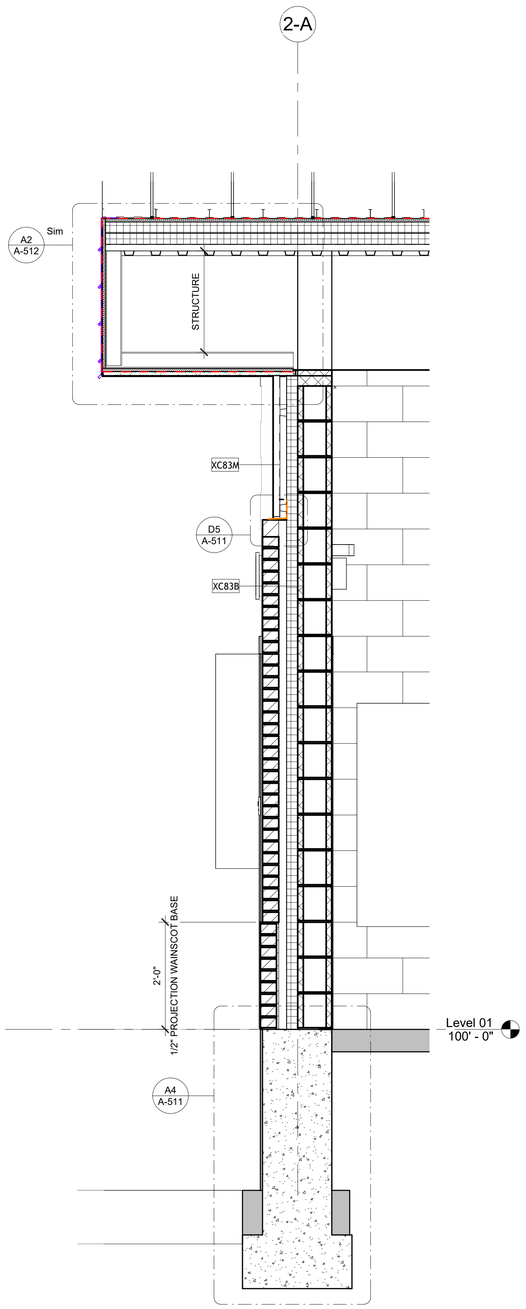


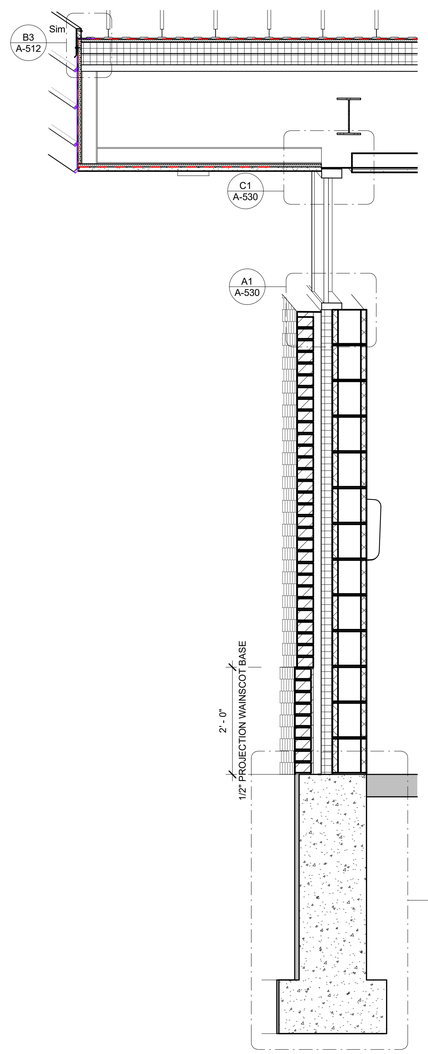
A1 TYPICAL WALL SECTION - LOW SIDE ROOF SLOPE

A-300 | A-310 3/4" = 1'-0"



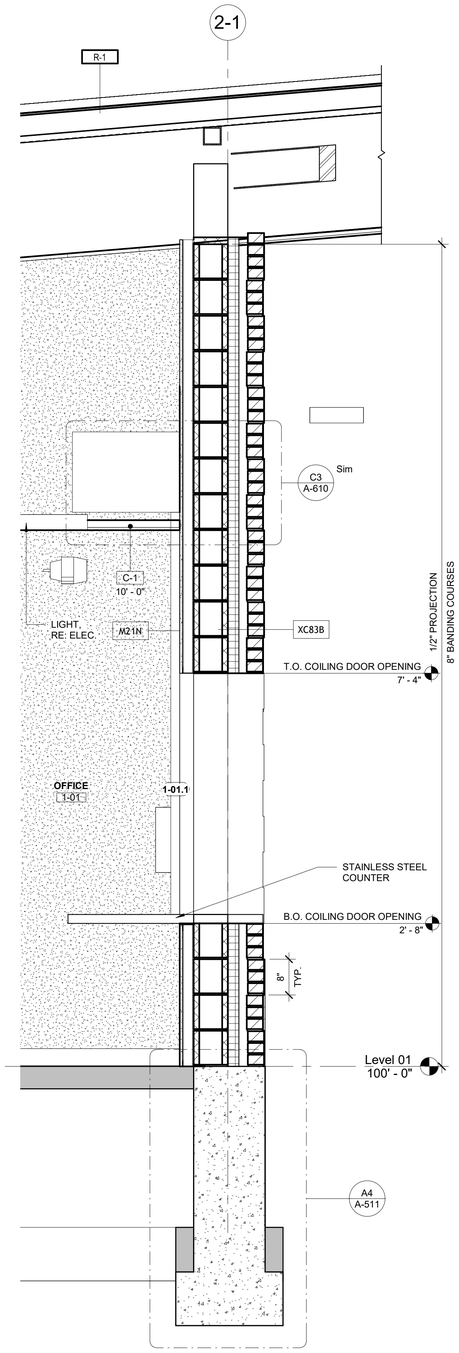
A2 WALL SECTION - STANDARD WALL TO METAL PANEL

A-201A | A-310 3/4" = 1'-0"



A3 TYPICAL WALL SECTION - RESTROOM CLERESTORY

A-301 | A-310 3/4" = 1'-0"



A5 HEADQUARTERS WALL SECTION - COILING DOOR OPENING

A-300 | A-310 3/4" = 1'-0"

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WALL SECTIONS

A-310

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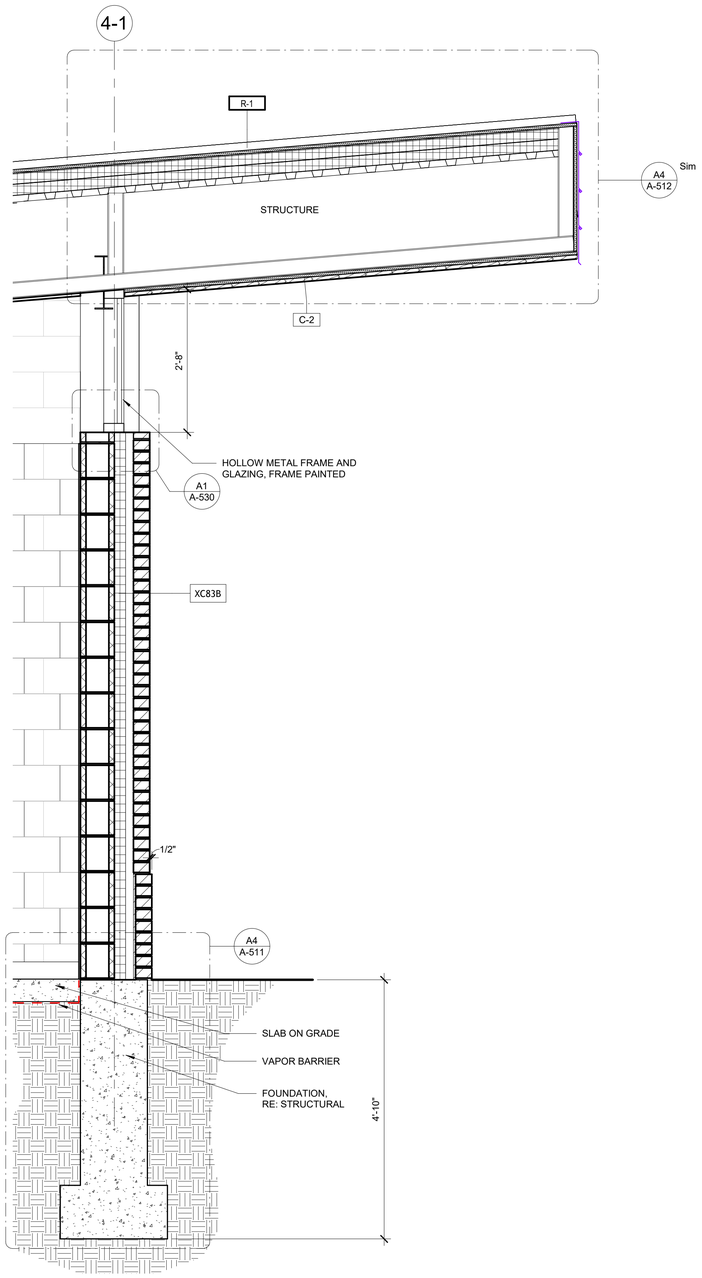

A1 TYPICAL WALL SECTION - HIGH SIDE ROOF SLOPE

A-302 A-311 3/4" = 1'-0"

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WALL SECTIONS

A-311

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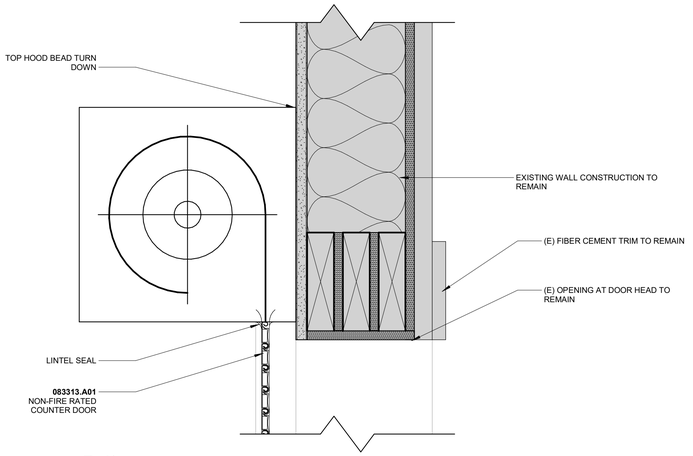
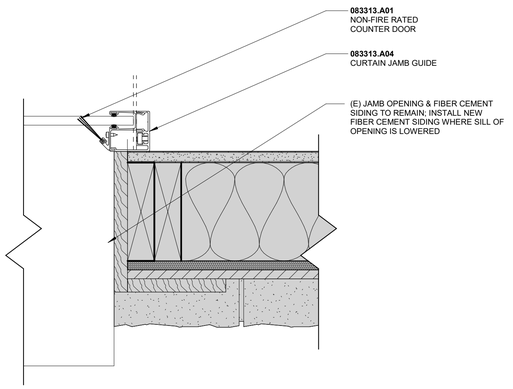


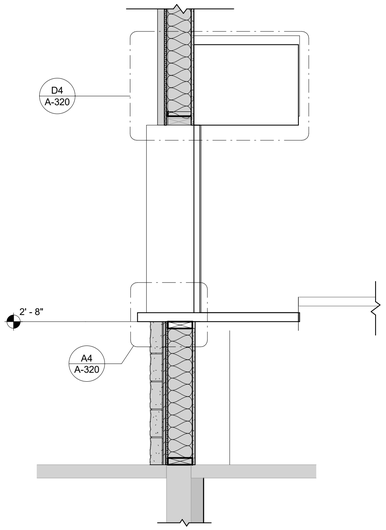
D4 COILING DOOR HEAD DETAIL

A-320 | A-320 | 3" = 1'-0"



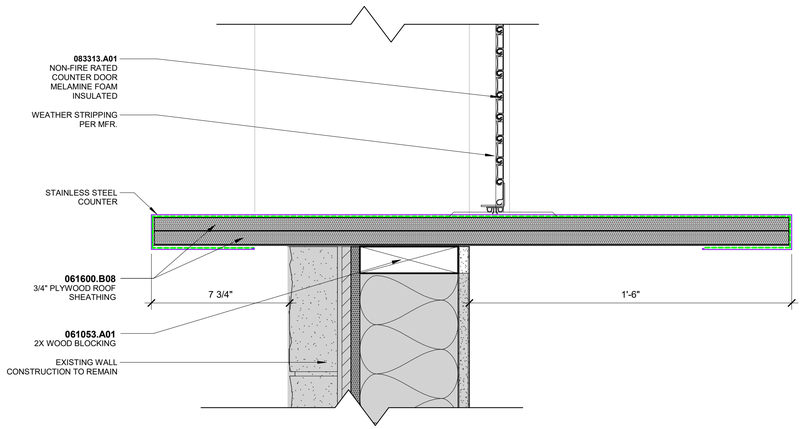
B4 COILING DOOR JAMB DETAIL

A-320 | 3" = 1'-0"



A2 EXISTING CONCESSIONS BUILDING - NEW COILING ROLL-UP DOOR

A-111B | A-320 | 3/4" = 1'-0"



A4 COILING DOOR SILL DETAIL

A-320 | A-320 | 3" = 1'-0"

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Key Map

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EXISTING CONCESSIONS BLDG. - WALL SECTION & DETAILS

A-320

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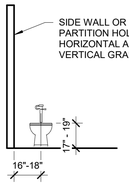
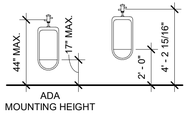
TYPICAL ADULT MOUNTING HEIGHTS

WATER CLOSET
224000.A02



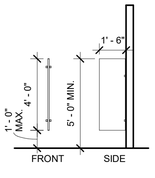
RE: ARCH PLAN FOR HORIZONTAL PLACEMENT.

URINAL
224000.A03



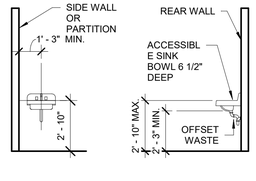
RE: ARCH PLAN FOR HORIZONTAL PLACEMENT.

URINAL SCREEN



DEPTH OF SCREEN TO BE 18" MIN. OR 6" BEYOND FRONT LIP OF URNINAL MEASURED FROM THE FINISHED BACK WALL SURFACE, WHICHEVER IS GREATER.

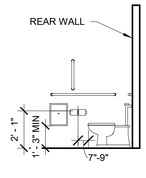
LAVATORY
224000.A04
224000.A05



HOT WATER PIPE AND DRAIN MUST BE INSULATED.

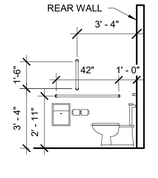
TOILET PAPER DISPENSER
102800.A01

SANITARY NAPKIN DISPOSAL
102800.A09



SURFACE MOUNT TOILET TISSUE DISPENSER MOUNT 7" MIN. TO 9" MAX IN FRONT OF WC MEASURED TO THE CENTER LINE OF THE DISPENSER.

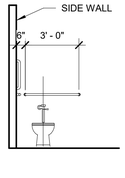
42" HORIZONTAL GRAB BAR
18" VERTICAL GRAB BAR
102800.A08



SIDE WALL:
42" MIN. LENGTH, MOUNT 12" MAX. FROM REAR WALL.

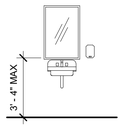
18" MIN. VERTICAL BAR: MOUNT 40" FROM REAR WALL AND 40" (FROM BOTTOM OF BAR) A.F.F.

36" HORIZONTAL GRAB BAR
102800.A08



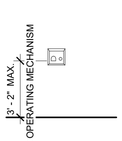
REAR WALL:
36" MIN. LENGTH, EXTEND FROM CENTER LINE OF WC 12" MIN. ON SIDE CLOSEST TO WALL & 24" MIN. ON TRANSFER SIDE.

MIRROR
102800.A12



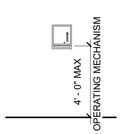
24" X 36" MIRROR. MIRRORS NOT LOCATED ABOVE LAVS OR COUNTERTOPS SHOULD BE INSTALLED WITH BOTTOM BASE OF REFLECTING SURFACE AT 35"A.F.F.

ELECTRIC HAND DRYER



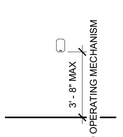
MOUNT 38" TO OPERATING MECHANISM FOR FRONT APPROACH.

PAPER TOWEL DISPENSER
102800.A04



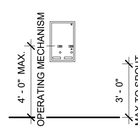
MOUNT 48" TO OPERATING MECHANISM FOR FRONT APPROACH.

SOAP DISPENSER
102800.A07



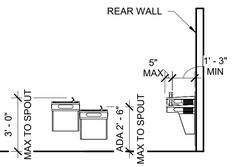
MOUNT 44" MAX TO OPERATING MECHANISM FOR FRONT APPROACH.

SANITARY NAPKIN DISPENSER
102800.A34



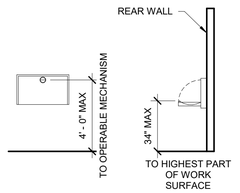
MOUNT 48" TO OPERATING MECHANISM FOR FRONT APPROACH.

DRINKING FOUNTAIN
224000.A07



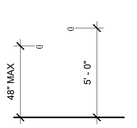
RE: ARCH PLAN FOR HORIZONTAL PLACEMENT.

BABY CHANGING STATION



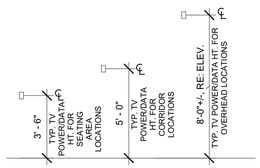
SURFACE MOUNTED

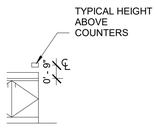
ROBE HOOK
102800.N06

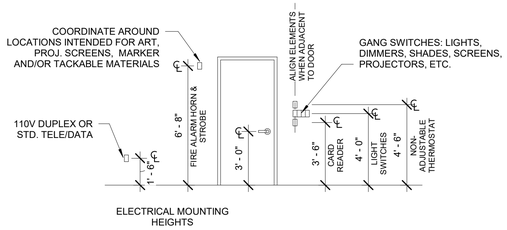


ADA:
MOUNT 48" MAX AFF.

STANDARD HT.:
MOUNT 60" AFF.







ELECTRICAL MOUNTING HEIGHTS

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Key Map

Drawing
TYPICAL MOUNTING HEIGHTS

A-410

SITE PLAN SUBMITTAL

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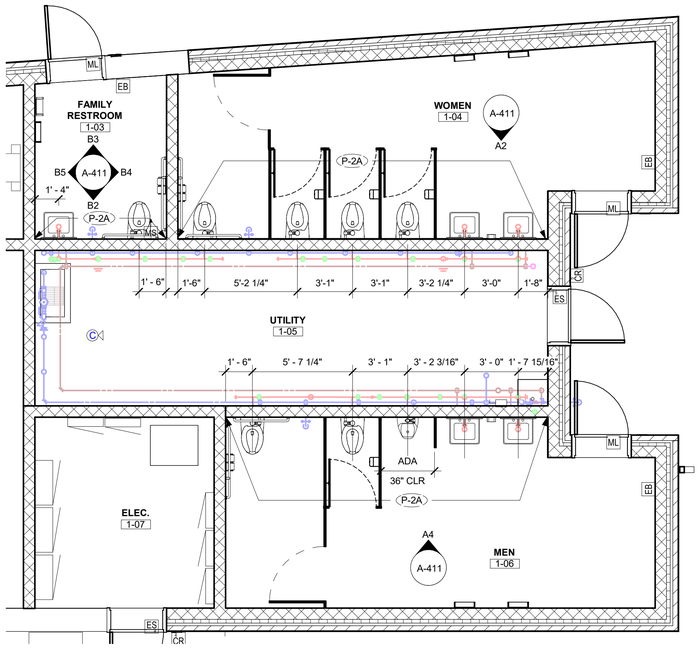
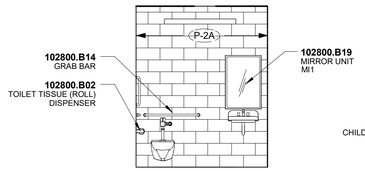


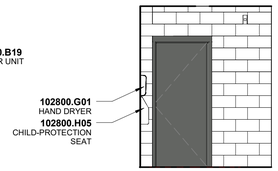
A1 HEADQUARTERS & RESTROOM BUILDING - FLOOR PLAN

A-111A | A-411 1/4" = 1'-0"



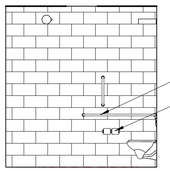
B2 FAMILY TOILET 1-03 - S. ELEV.

A-411 | A-411 1/4" = 1'-0"



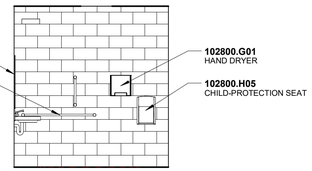
B3 FAMILY TOILET 1-03 - N. ELEV.

A-411 | A-411 1/4" = 1'-0"



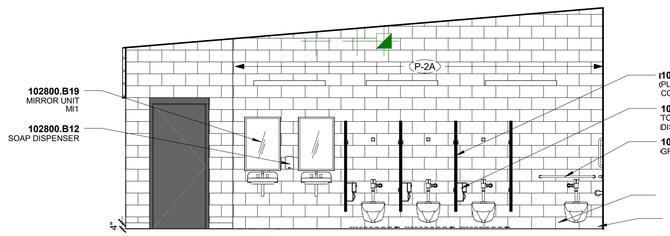
B4 FAMILY TOILET 1-03 - E. ELEV.

A-411 | A-411 1/4" = 1'-0"



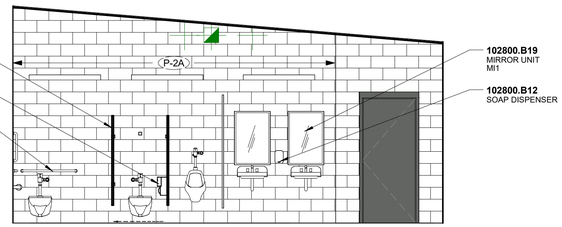
B5 FAMILY TOILET 1-03 - W. ELEV.

A-411 | A-411 1/4" = 1'-0"



A2 WOMENS TOILET 1-04

A-411 | A-411 1/4" = 1'-0"



A4 MENS TOILET 1-06

A-411 | A-411 1/4" = 1'-0"

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Key Map

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ENLARGED TOILET ROOM PLANS AND ELEVATIONS - HEADQUARTERS

A-411

SITE PLAN SUBMITTAL

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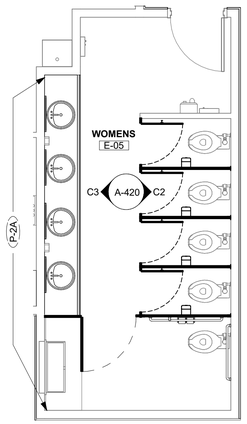
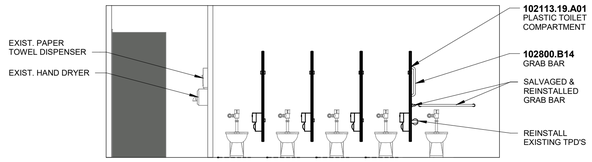


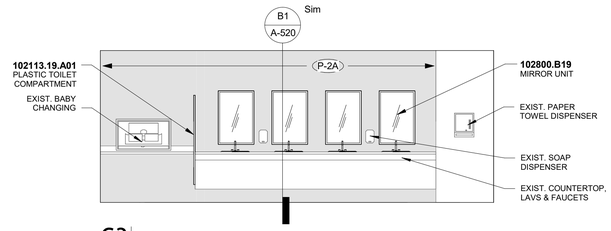
C1 EXISTING CONCESSIONS BUILDING - WOMENS RESTROOM PLAN

A-111B | A-420 1/4" = 1'-0"



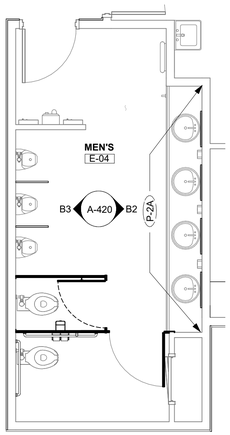
C2 WOMENS E-05 - E. ELEV

A-420 | A-420 1/4" = 1'-0"



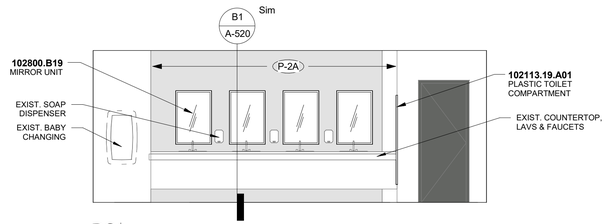
C3 WOMENS E-05 - W. ELEV

A-420 | A-420 1/4" = 1'-0"



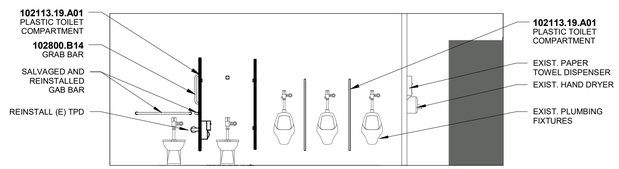
B1 EXISTING CONCESSIONS BUILDING - MENS RESTROOM PLAN

A-111B | A-420 1/4" = 1'-0"



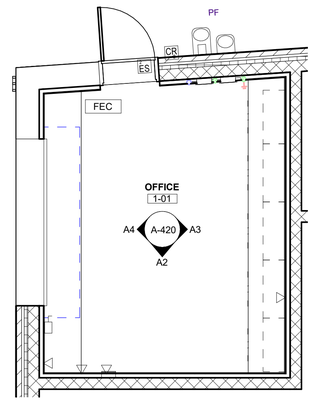
B2 MENS E-04 - EAST ELEV.

A-420 | A-420 1/4" = 1'-0"



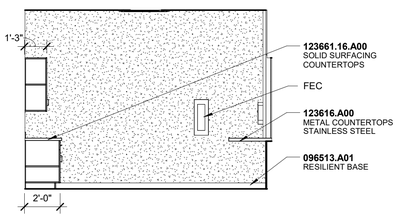
B3 MENS E-04 - WEST ELEV.

A-420 | A-420 1/4" = 1'-0"



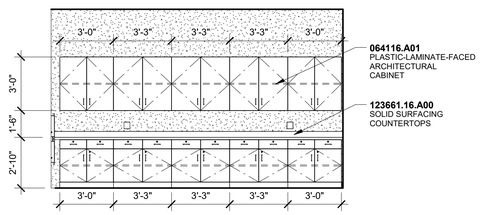
A1 HEADQUARTERS BUILDING - OFFICE FLOOR PLAN

A-201A | A-420 1/4" = 1'-0"



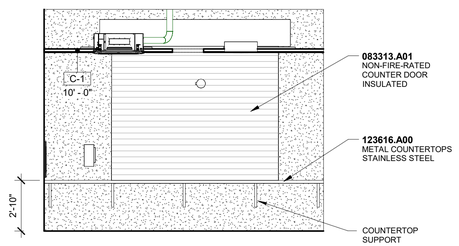
A2 OFFICE 1-01 - SOUTH ELEV.

A-420 | A-420 1/4" = 1'-0"



A3 OFFICE 1-01 - EAST ELEV.

A-420 | A-420 1/4" = 1'-0"



A4 OFFICE 1-01 - WEST ELEV.

A-420 | A-420 1/4" = 1'-0"

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INTERIOR ENLARGED PLANS AND ELEVATIONS

A-420

SITE PLAN SUBMITTAL
Page 273 of 313

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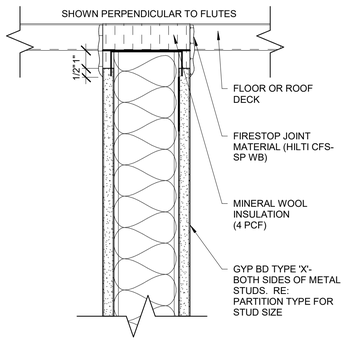
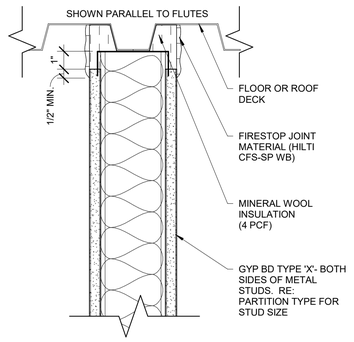
HEAD CONDITION - RATED

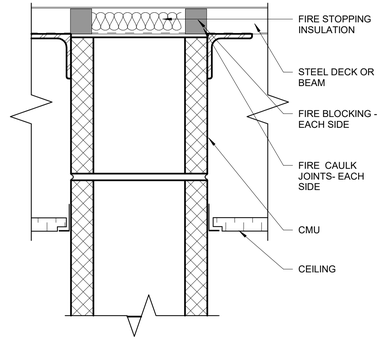


1 HOUR RATED HEAD

1---R

SEE GENERAL PARTITION TYPE FOR REQUIRED STUD SIZE AND LAYERS OF GYP. BD.
UL HW-D-1067

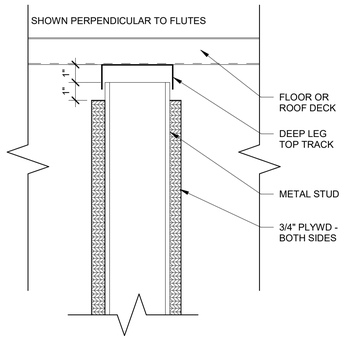




RATED CMU PARTITION HEAD

SEE GENERAL PARTITION TYPE FOR MASONRY WIDTH

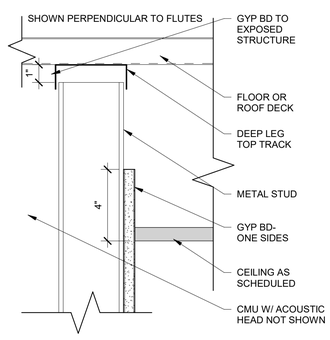
HEAD CONDITION - NON-RATED



NON-RATED PARTITION HEAD

---N

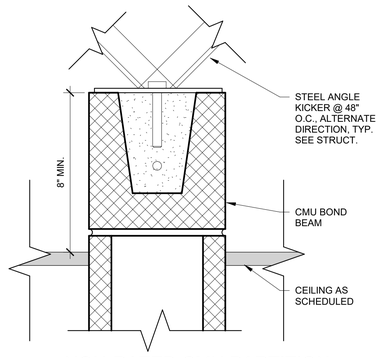
SEE GENERAL PARTITION TYPE FOR REQUIRED STUD SIZE AND LAYERS OF GYP. BD. (2 LAYERS SHOWN)



NON-RATED PARTITION HEAD

---N

SEE GENERAL PARTITION TYPE FOR REQUIRED STUD SIZE AND LAYERS OF GYP. BD.

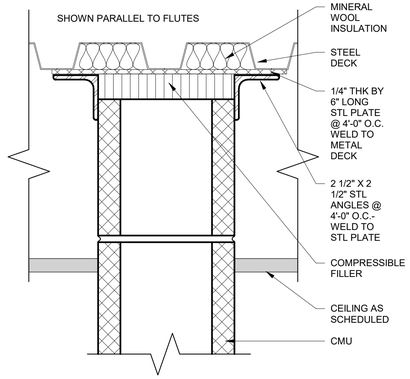


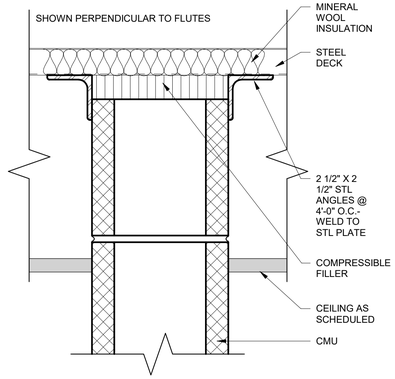
NON-RATED CMU PARTITION HEAD

---N

SEE GENERAL PARTITION TYPE FOR MASONRY WIDTH

HEAD CONDITION - ACOUSTICAL

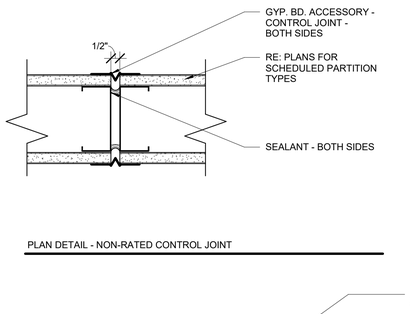




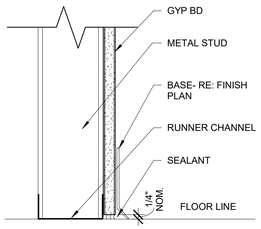
ACOUSTICAL CMU PARTITION HEAD

---A

SEE GENERAL PARTITION TYPE FOR MASONRY WIDTH



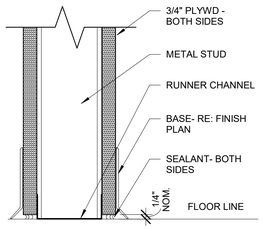
PLAN DETAIL - NON-RATED CONTROL JOINT



PARTITION TYPE 1

M21-

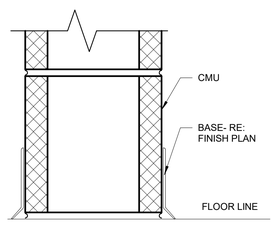
WITH 2-1/2" METAL STUD
(NOMINAL WIDTH 2)
PARTITION WIDTH = 3-1/8"



PARTITION TYPE 2

M32-

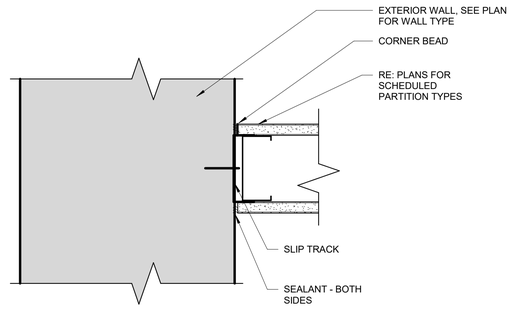
WITH 3-5/8" METAL STUD
(NOMINAL WIDTH 2)
PARTITION WIDTH = 5-1/8"



PARTITION TYPE 7 - CMU

C87-
U906

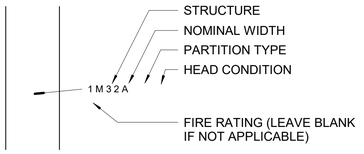
8"x8"x16" C.M.U.
(NOMINAL WIDTH 8)
U.L. DESIGN = U906



PLAN DETAIL @ EXTERIOR PERIMETER WALL

1 PARTITION TYPES- Salisbury
3" = 1'-0"

PARTITION TYPES LEGEND



PARTITION STRUCTURE LEGEND

(M) STEEL STUD	XMXXX
(W) WOOD STUD	XWXXX
(C) CONCRETE BLOCK	XCXXX
(P) PRE-CAST CONCRETE	XPXXX
(S) SITE-CAST CONCRETE	XSXXX

PARTITION TYPES NOTES

1. PARTITION TYPES ARE INDICATED ON THE FLOOR PLANS.
2. ALL PARTITIONS SHALL EXTEND STRUCTURE TO STRUCTURE UNLESS NOTED OTHERWISE.
3. CONSTRUCTION OF FIRE-RATED PARTITIONS, INCLUDING TAPING AND FINISHING OF GYP. BD. FOR FULL HEIGHT TO STRUCTURE ABOVE, SHALL BE IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS TO ACHIEVE THE RATING INDICATED.
4. SOUND ISOLATION PARTITIONS SHALL BE SEALED AIRTIGHT FOR FULL HEIGHT TO PREVENT PASSAGE OF AIRBORNE SOUND. TAPE AND FINISH ALL GYP. BD. JOINTS AND FASTENERS, PROVIDE SEALANT AT PERIMETER AND AT ALL PENETRATIONS.
5. PROVIDE FIRE-RETARDANT TREATED WOOD BLOCKING FOR PARTITION MOUNTED EQUIPMENT AND CASEWORK.
6. PARTITION TYPES DESCRIBE THE PRIMARY MEMBER AND SHEATHING. REFER TO FINISH SCHEDULE FOR ALL PARTITION FINISH DESIGNATIONS.
7. PROVIDE SLIP JOINT CONNECTIONS AT THE TOPS OF ALL PARTITIONS WHICH INTERSECT THE STRUCTURE ABOVE. PROVIDE FIRE SAFING AT ALL SLIP JOINT CONNECTIONS IN FIRE RATED PARTITIONS.
8. PROVIDE GYP. BD. CONTROL JOINTS WHERE DESIGNATED ON THE INTERIOR ELEVATIONS (A-400 SHEETS) AND ANYWHERE THERE IS A CONTINUOUS RUN OF GYP. BD. THAT IS GREATER THAN 30'-0" IN LENGTH. CONFIRM THE LOCATION OF ADDITIONAL CONTROL JOINTS WITH THE ARCHITECT PRIOR TO INSTALLATION.

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Key Map

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PARTITION TYPES

A-510

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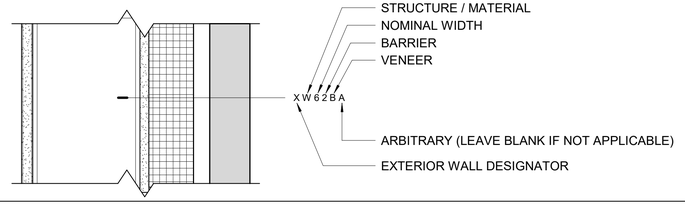
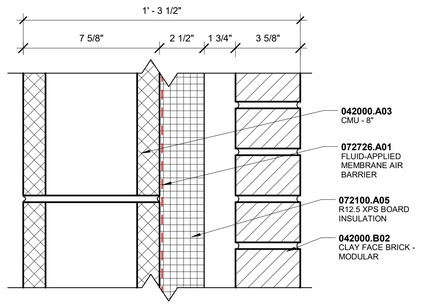
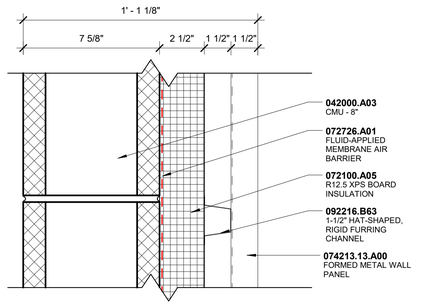
ASSEMBLY TYPES LEGEND





POLY-ISO + AIR BARRIER

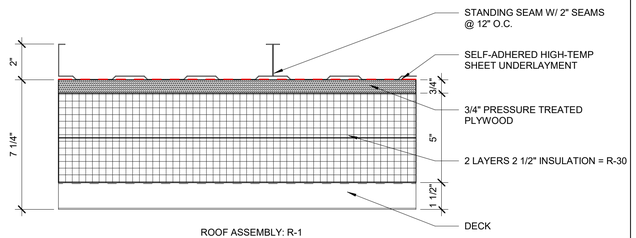
XC83B



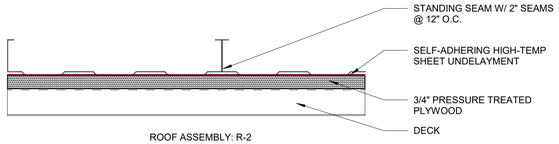
POLY-ISO + AIR BARRIER

XC83M

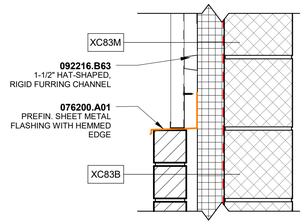
ROOF TYPES LEGEND



ROOF ASSEMBLY: R-1

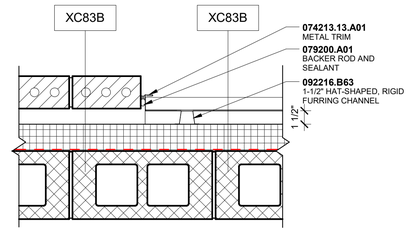


ROOF ASSEMBLY: R-2



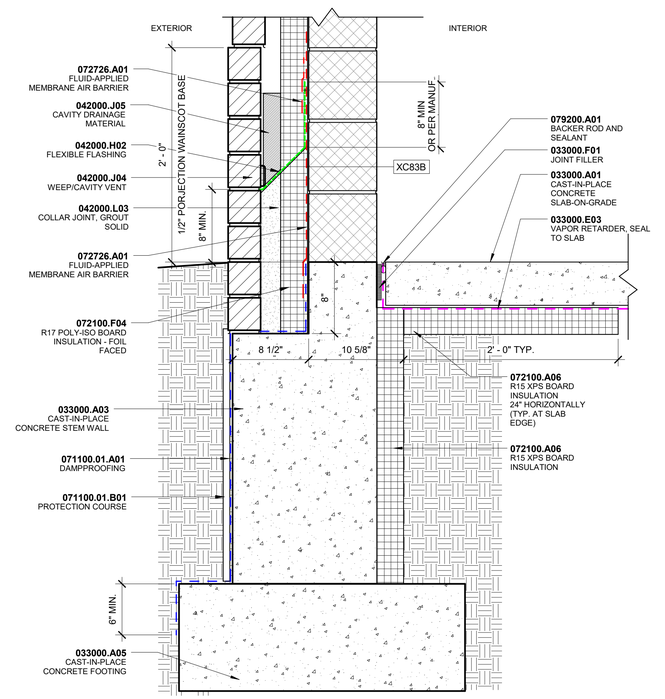
D5 SECTION DETAIL - TRANSITION - BRICK AND METAL PANEL

A-310 | A-511 1 1/2" = 1'-0"



C5 PLAN DETAIL - TRANSITION - BRICK AND METAL PANEL

A-511 1 1/2" = 1'-0"



A4 FOUNDATION - XC123B

A-310 | A-511 1 1/2" = 1'-0"

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INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number:	223072.00
Sheet Issue Date:	2025-05-02
Drawn By:	ST
Checked By:	LG

Key Map

Drawing

ASSEMBLY SYSTEMS & EXTERIOR DETAILS

A-511

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1 2 3 4 5

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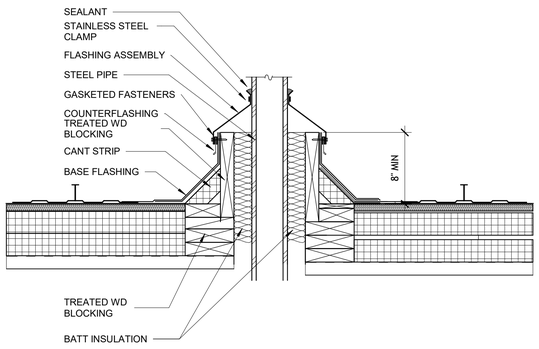
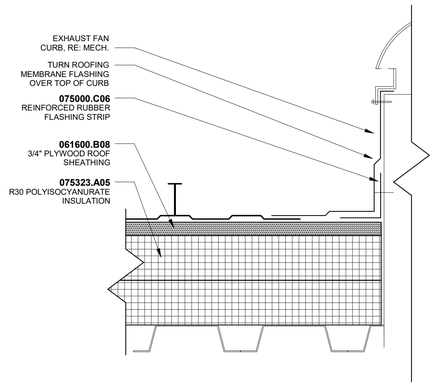


ROOF ASSEMBLY: R-1

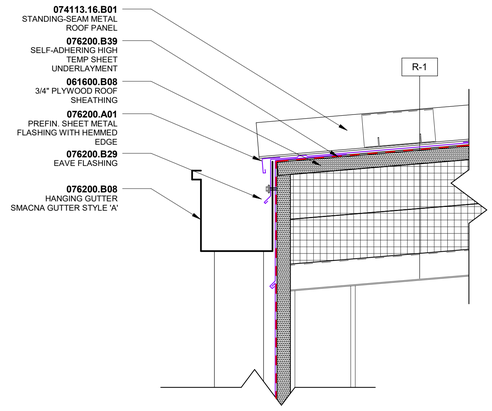
C1 ROOF EXHAUST PIPE PENETRATION

A-512 | 1 1/2" = 1'-0"



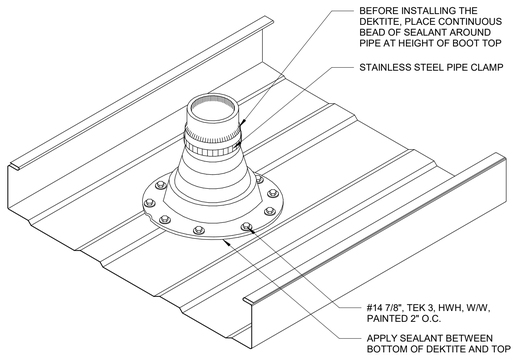
C2 ROOF DETAIL - EXHAUST FAN CURB

A-512 | 3" = 1'-0"



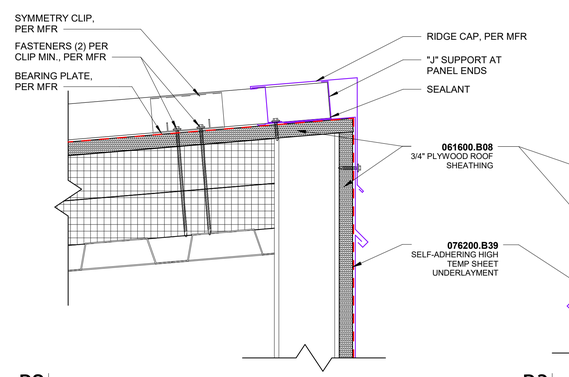
C3 OVERHANG - GUTTER

A-310 | A-512 | 3" = 1'-0"



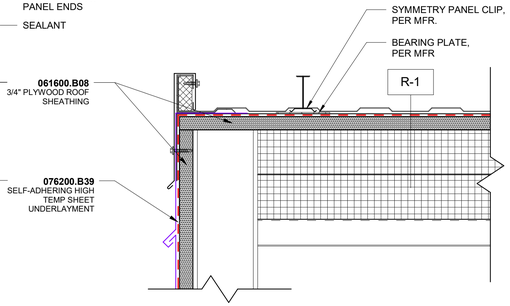
B1 ROOF DETAIL - PIPE PENETRATION AXON

A-512 | 3" = 1'-0"



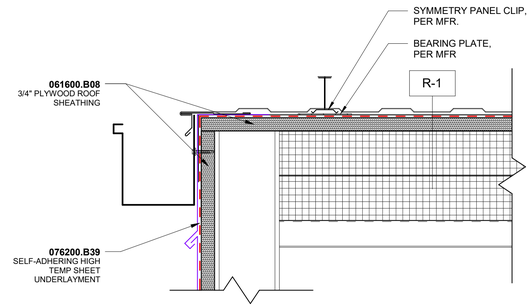
B2 ROOF DETAIL - HIGH EAVE FIXED

A-512 | A-512 | 3" = 1'-0"



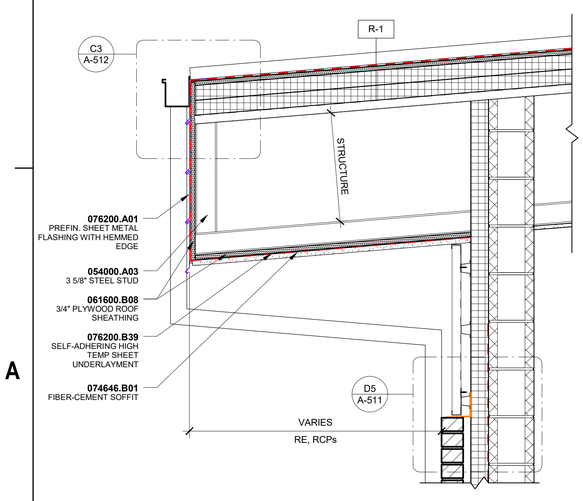
B3 ROOF DETAIL - RAKE EDGE

A-310 | A-512 | 3" = 1'-0"



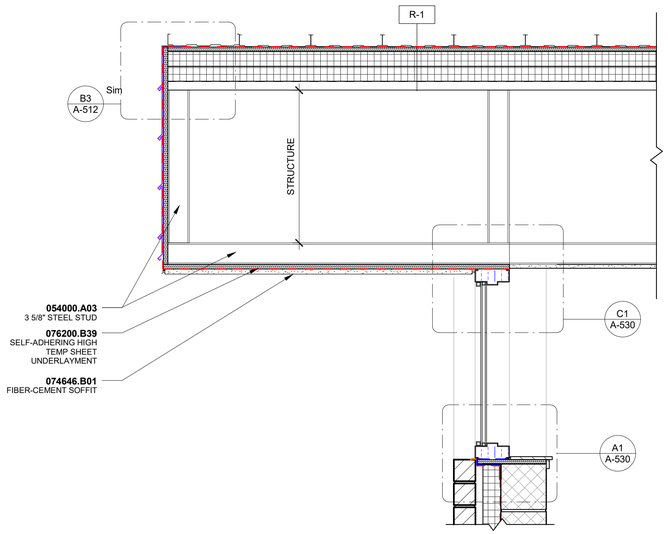
B5 ROOF DETAIL - RAKE EDGE GUTTER

A-512 | 3" = 1'-0"



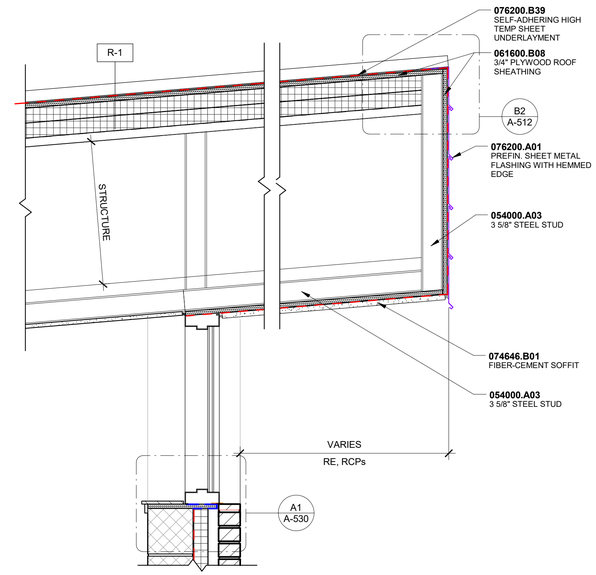
A1 OVERHANG - LOW SIDE SLOPED ROOF

A-310 | A-512 | 1" = 1'-0"



A2 CLERESTORY @ ROOF OVERHANG

A-301 | A-512 | 1" = 1'-0"



A4 OVERHANG - HIGH SIDE SLOPED ROOF

A-311 | A-512 | 1" = 1'-0"

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Key Map

Drawing

EXTERIOR DETAILS - ROOFING

A-512

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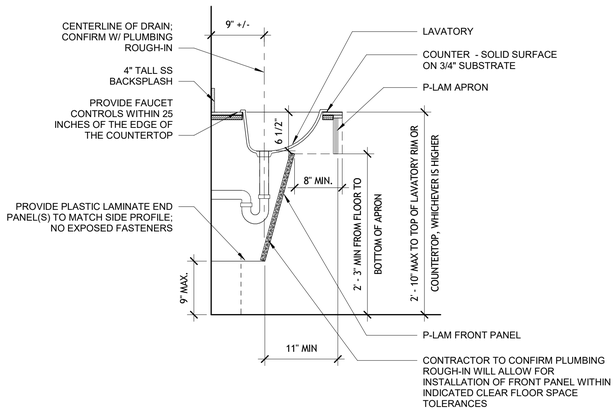
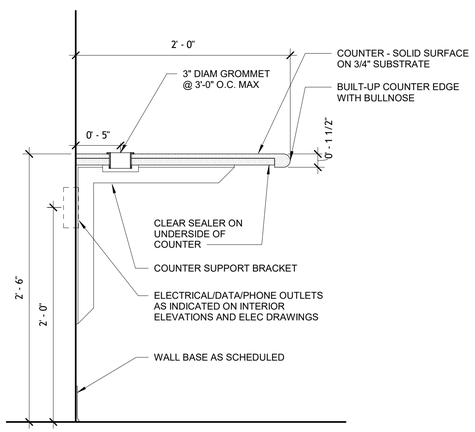
K Y M C



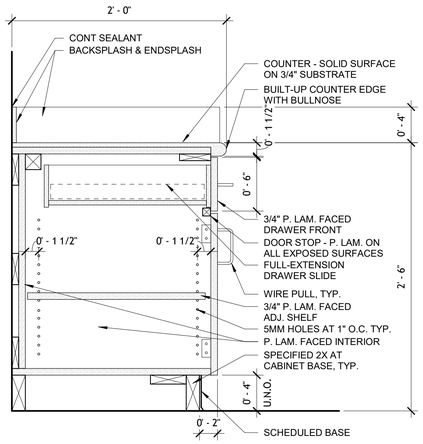
B1 ACCESSIBLE LAVATORY DETAIL-GRANITE OR SOLID SURFACE COUNTER

A-420 | A-520 | 1" = 1'-0"



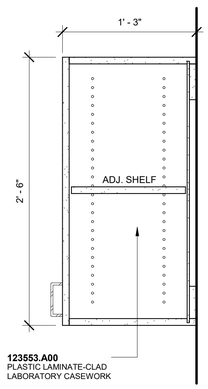
A1 TYP. COUNTER SUPPORT

A-520 | 1 1/2" = 1'-0"



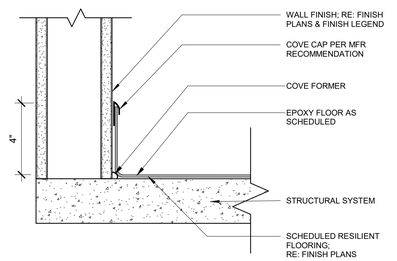
A2 BCC/BCD/BCE.1 BASE CABINET W/ DRAWER

A-520 | 1 1/2" = 1'-0"



A3 CASEWORK SECTION - UPPER CABINET

A-520 | 1 1/2" = 1'-0"



A4 FLOORING TRANSITION - EPOXY FLOORING INTEGRAL BASE

A-520 | 3" = 1'-0"

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Checked By: LG

Key Map

Drawing

INTERIOR DETAILS

A-520

SITE PLAN SUBMITTAL
Page 277 of 313

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A B C D

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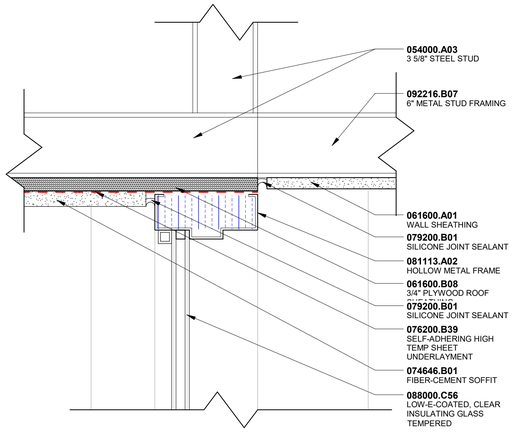
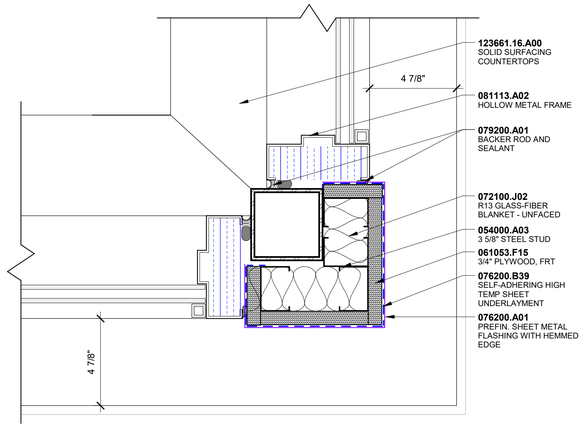


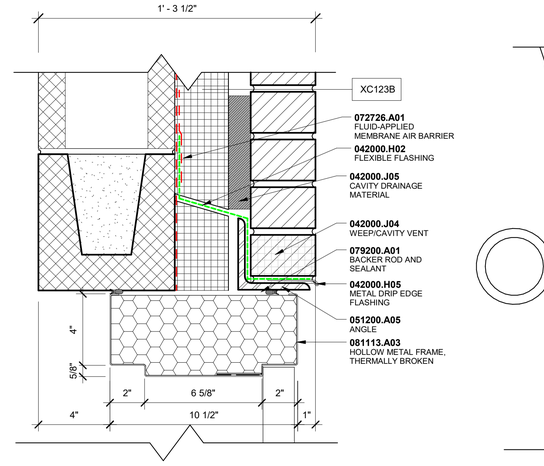
C1 HM HEAD @ SOFFIT

A-310 | A-530 3" = 1'-0"



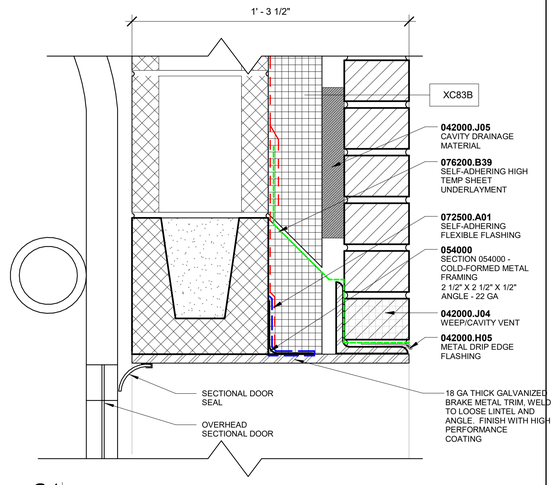
C2 CLERESTORY CORER JAMB

A-610 | A-530 3" = 1'-0"



C3 HM HEAD @ XC83B

A-530 3" = 1'-0"



C4 OVERHEAD SECTIONAL DOOR @ XC83B

A-530 3" = 1'-0"

B1 HM WINDOW JAMB DETAIL @ XC83B

A-610 | A-530 3" = 1'-0"

B2 HM WINDOW JAMB DETAIL @ XC81M

A-610 | A-530 3" = 1'-0"

B3 HM JAMB XC83B

A-530 3" = 1'-0"

B4 GARAGE SECTIONAL DOOR @ XC83B

A-530 3" = 1'-0"

A1 EXT. SILL DETAIL @ XC83B

A-310 | A-530 3" = 1'-0"

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Key Map

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DOOR & WINDOW DETAILS

A-530

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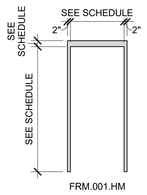
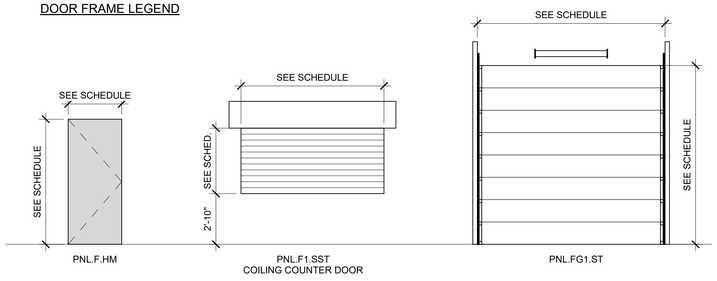
DOOR SCHEDULE

MARK	ROOM NAME	DOOR PANEL 1 WIDTH	DOOR PANEL 2 WIDTH	DOOR PANEL TYPE	DOOR HEIGHT	DOOR MATERIAL	DOOR PANEL THICKNESS	HARDWARE SET	FRAME TYPE	FRAME HEAD HT	FIRE RATING	DETAILS HEAD	DETAILS JAMB	COMMENTS
1-02	IT	0' - 0"		PNL.F.HM	7' - 0"	STEEL	0' - 1 3/4"	04	FRM.001.HM1	0' - 4"		C2/A-530	B2/A-530	
1-03	FAMILY RESTROOM	3' - 0"		PNL.F.HM	7' - 0"	HM	0' - 1 3/4"	01	FRM.001.HM1	0' - 4"		C2/A-530	B2/A-530	
1-04	WOMEN	3' - 0"		PNL.F.HM	7' - 0"	HM	0' - 1 3/4"	02	FRM.001.HM1	0' - 4"		C2/A-530	B2/A-530	
1-05	UTILITY	3' - 0"		PNL.F.HM	7' - 0"	HM	0' - 1 3/4"	04	FRM.001.HM1	0' - 4"		C2/A-530	B2/A-530	
1-06	MEN	3' - 0"		PNL.F.HM	7' - 0"	HM	0' - 1 3/4"	02	FRM.001.HM1	0' - 4"		C2/A-530	B2/A-530	
1-07	ELEC.	3' - 0"		PNL.F.HM	7' - 0"	HM	0' - 1 3/4"	05	FRM.001.HM1	0' - 4"		C2/A-530	B2/A-530	
1-08	STORAGE	3' - 2"	3' - 2"	PNL.F.HM	7' - 0"	HM	0' - 1 3/4"	03	FRM.001.HM1	0' - 4"		C2/A-530	B2/A-530	
E-03.1	CONCESSION							MANUF.	FRM.F1.ST		-	D4/A-311	B4/A-311	INSULATED COUNTER DOOR
		8' - 0"		PNL.F1.STL	3' - 8"	STEEL	0' - 1"							



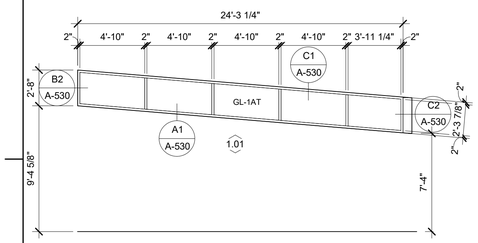
DOOR FRAME LEGEND

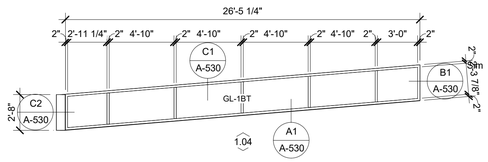


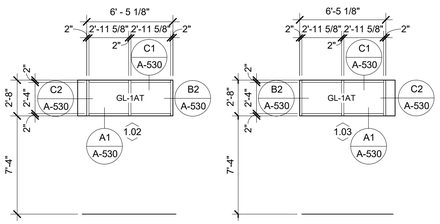
DOOR PANEL LEGEND

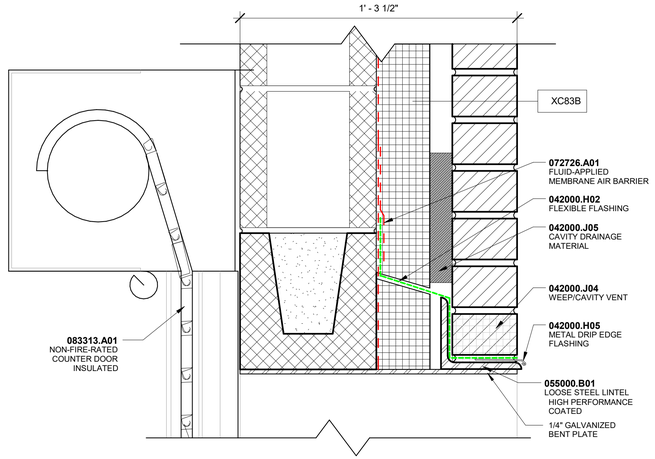
GLAZING LEGEND

GL-1AT: 1" VISION GLASS, TEMPERED (SOUTH/WEST/EAST)
GL-1BT: 1" VISION GLASS, TEMPERED (NORTH)

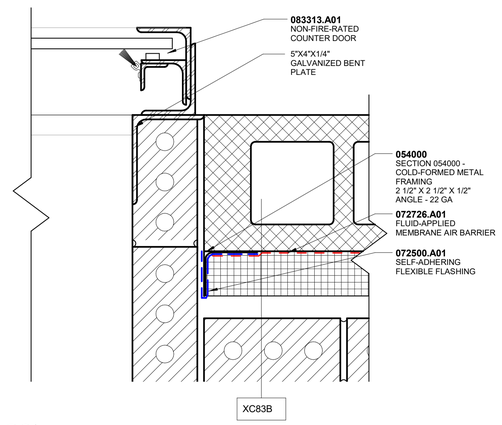




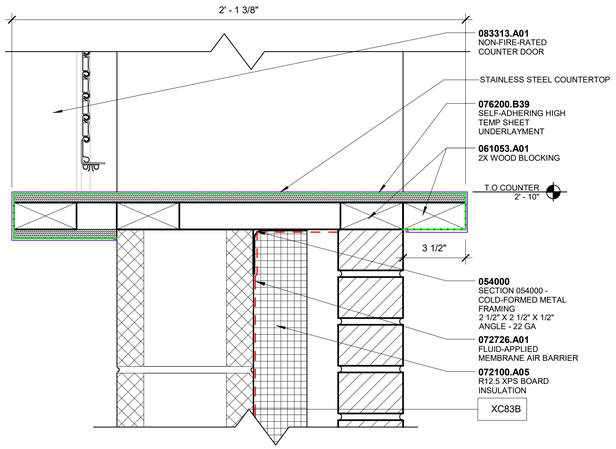




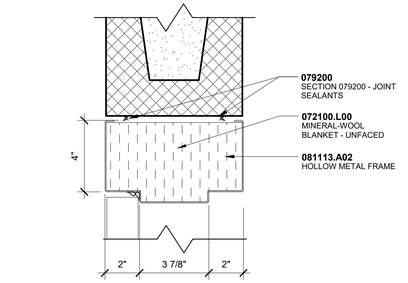
C3 COILING DOOR HEAD @ XC8B3
A-310 | A-610 | 3" = 1'-0"



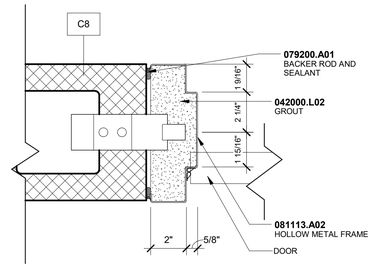
B3 COILING DOOR JAMB @ XC8B3
A-610 | 3" = 1'-0"



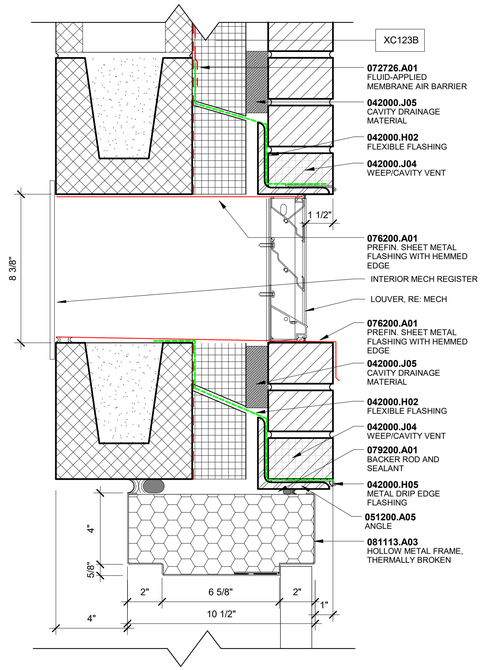
A3 COILING DOOR SILL @ XC8B3
A-610 | 3" = 1'-0"



D5 HM HEAD C87A
A-610 | 3" = 1'-0"



C5 HM JAMB C87A
A-610 | 3" = 1'-0"



A5 HM HEAD @ XC83B WITH MECH LOUVER
A-610 | 3" = 1'-0"

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INTERIOR DESIGN

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Drawn By:	ST
Checked By:	LG

Key Map

Drawing
DOOR & CLERESTORY SCHEDULE AND TYPES

A-610

SITE PLAN SUBMITTAL
Page 279 of 313

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FAN SCHEDULE

SYMBOL	AREA SERVED	MANUFACTURER MODEL	TYPE	CFM @ 5,400'	ESP IN WC @5,400'	DRIVE TYPE	SONES [DBA]	FAN RPM	HP	ELECTRICAL DATA V / PH	CONTROL	WEIGHT (LBS.)	REMARKS
EF-1	MEN/WOMAN ROOM	GREENHECK CSP-A-510	IN-LINE CABINET	350	0.40	DIRECT	0.9	1182	66W	115 / 1	LIGHT INTERLOCK	40	2,4
EF-2	FAMILY RESTROOM	GREENHECK CSP-A200	IN-LINE CABINET	100	0.40	DIRECT	1.4	825	96W	115 / 1	LIGHT INTERLOCK	30	2
EF-3	ELEC/IT	GREENHECK CSP-A-510	IN-LINE CABINET	350	0.40	DIRECT	0.9	1182	66W	115 / 1	24V T-STAT	40	2,3

REMARKS:
1. PROVIDE WITH GRAVITY BACKDRAFT DAMPER, ECM MOTOR, AND ROOF CURB.
2. PROVIDE WITH GRAVITY BACKDRAFT DAMPER, DAMPER TRAY, ECM MOTOR, MANUFACTURER'S ROOF CAP
3. PROVIDE EF-3 IN STORAGE ROOM 2-08 WITH A LINE VOLTAGE WALL TIMER IN LIEU OF A THERMOSTAT.
4. PROVIDE EF-1 IN UTILITY ROOM 2-05 WITH A LINE VOLTAGE WALL TIMER IN LIEU OF A THERMOSTAT.

ELECTRIC CABINET UNIT HEATER SCHEDULE

SYMBOL	AREA SERVED	MANUF. MODEL	CABINET TYPE	INLET / DISCHARGE CONFIGURATION	CFM @ 5,400'	OUTPUT (MBH)	KW	MOTOR HP	ELECTRICAL DATA V / PH	MCA	MOCP	CONTROL	WEIGHT (LBS.)	REMARKS
ECUH-1	RESTROOM	QMARK CDF558	CEILING RECESSED	BOTTOM/ BOTTOM	100	17	5	1 / 100	208/1	24	-	UNIT T-STAT	30	1
ECUH-2	FAMILY RESTROOM	QMARK CDF548	CEILING RECESSED	BOTTOM/ BOTTOM	100	7	2	1 / 100	208/1	10	-	UNIT T-STAT	30	1

REMARKS:
1. SEE SPECIFICATIONS FOR OPTIONS, ACCESSORIES, CONTROLS AND SEQUENCE OF OPERATION.

ELECTRIC UNIT HEATER SCHEDULE

SYMBOL	AREA SERVED	MANUF. MODEL	MOUNTING TYPE	DISCHARGE TYPE	CFM@ 5,400'	OUTPUT (MBH)	KW	MOTOR HP	ELECTRICAL V / PH	MCA	MOCP	CONTROL	WEIGHT (LBS.)	REMARKS
EUH-1	STORAGE SPACES	QMARK MUH05-81	VERTICAL	HORIZONTAL	350	17	5	1 / 100	208 / 1	24	-	UNIT T-STAT	30	1, 2

REMARKS:
1. SELECTION BASED ON 50°F. EAT
2. PROVIDE WITH MOUNTING BRACKETS, SUPPORTS MOUNTING TYPE.

LOUVER SCHEDULE

SYMBOL	SERVICE	MANUFACTURER MODEL	CFM	SIZE W" x H"	FREE AREA SQ. FT.	MAX APD IN WC	ACCESSORIES	FRAME	REMARKS
LVR-1	INTAKE	GREENHECK ESD-202	350	38.25 x 8.75	0.5	0.07	BIRDSCREEN	FLANGED	1,2
LVR-2	INTAKE	GREENHECK ESD-202	100	38.5 x 6.25	0.2	0.07	BIRDSCREEN	FLANGED	1,2

REMARKS:
1. PROVIDE WITH FACTORY APPLIED BAKED ENAMEL FINISH, COORDINATE COLOR WITH ARCHITECT.
2. PROVIDE WITH 1/2"x1/2" ALUMINUM BIRDSCREEN ON INTERIOR FACE OF LOUVER AND BAROMETRIC BACKDRAFT DAMPER.

DUCTLESS SPLIT AIR CONDITIONING SYSTEM SCHEDULE

SYMBOL	AREA SERVED	MANUFACTURER MODEL	ASSOCIATED CONDENSING UNIT	COOLING CAPACITY (MBH)	CFM	MIN. EFF SEER @AHRI	REFRIGERANT DATA RL(IN)	RS(IN)	TYPE	LBS	ELECTRICAL V / PH	MCA	WEIGHT (LBS.)	REMARKS
AC-1	IT ROOM	LG ARNU303SVA4	CU-1	30	706	23	3/8	5/8	R410A	3.5	208/1	0.5	40	1,2
AC-2	OFFICE	LG ARNU283TAA4	CU-1	28	770	23	3/8	5/8	R410A	3.5	208/1	1.6	65	2,3

REMARKS:
1. WALL-MOUNTED UNIT AT MINIMUM 8' AFF.
2. PROVIDE WITH REFRIGERATION LINE KIT, FACTORY CONDENSATE PUMP AND WIRED THERMOSTAT.
3. CEILING MOUNTED UNIT.

DUCTLESS SPLIT SYSTEM CONDENSING UNIT SCHEDULE

SYMBOL	AREA SERVED	MANUFACTURER MODEL	ASSOCIATED INDOOR UNIT	COOLING CAPACITY (MBH)	MIN. EFF SEER @AHRI	REFRIGERANT DATA RL(IN)	RS(IN)	TYPE	LBS	ELECTRICAL V / PH	MCA	MOCP	SCCR	WEIGHT (LBS.)	REMARKS
CU-1	IT ROOM/ OFFICE	LG ARUN060GSS4	AC-1, AC-2	64	23	3/8	3/4	R410A	7.7	208/1	25	40	-	260	1,2

REMARKS:
1. PROVIDE WITH PATE MODEL SCEB ROOF BASE WITH SOLID COVER AND SSC-1 PIPING BOOTS. RE: DETAIL X/XXX
2. PROVIDE WITH LOW AMBIENT KIT.

AIR DEVICE SCHEDULE

SYMBOL	MANUFACTURER MODEL	TYPE	FRAME	MATERIAL	FINISH	DAMPER TYPE	INLET SIZE	ACCESSORIES	REMARKS
ER-1	PRICE 80	CEILING EXHAUST REGISTER	SURFACE	ALUMINUM	STANDARD WHITE	OBD	SEE PLANS	-	1

REMARKS:
1. SEE SPECIFICATIONS FOR OPTIONS, AND ACCESSORIES.

DUCT INSULATION SCHEDULE (CLIMATE ZONES 5 THRU 8)

SERVICE	SIZE	LOCATION	INSULATION MATERIAL	INSULATION THICKNESS	REMARKS
ROUND OUTDOOR AIR	ALL	INDOOR CONCEALED	GLASS FIBER DUCT WRAP	R-6 MIN. INSTALLED	-

NOTES:
1. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
2. DUCT INSULATION SHALL BE INSTALLED IN MULTIPLE LAYERS, OR OF THICKNESS SUFFICIENT TO PROVIDE LISTED R-VALUES PER IECC.

REMARKS:
1. -

2021 CODE NOTES

CODE NOTES
ABBREVIATIONS USED WITHIN INCLUDE:

YEAR	ABBREV.	CODE TYPE
2021	IBC	INTERNATIONAL BUILDING CODE
2021	IEBC	INTERNATIONAL EXISTING BUILDING CODE
2021	IMC	INTERNATIONAL MECHANICAL CODE
2021	IECC	INTERNATIONAL ENERGY CONSERVATION CODE
2021	IPC	INTERNATIONAL PLUMBING CODE
2021	CPC	COLORADO PLUMBING CODE
2021	IFC	INTERNATIONAL FIRE CODE
2021	IFGC	INTERNATIONAL FUEL GAS CODE
2021	CFGC	COLORADO FUEL GAS CODE
2023	NEC	NATIONAL ELECTRIC CODE
2017	ICC	INTERNATIONAL CODE COUNCIL (A117.1)
2017	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
2021	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION

1. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AS NOTED ABOVE.
2. AN AIR BALANCE REPORT SHALL BE PROVIDED TO THE BUILDING INSPECTOR TO ASSURE THAT PROPER AIRFLOWS AND SYSTEM BALANCE IS ACHIEVED AT TIME OF FINAL INSPECTIONS.
3. ALL MATERIALS INSTALLED WITHIN A PLENUM SHALL MEET THE FLAME/SMOKE LISTED INDEX OF 25/50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723, OR BE INSTALLED TO COMPLY THE WITH REQUIREMENTS OF SECTION 703.3 OF THE IBC.
4. PIPE SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 305.4, AND ANSI/MSS SP-58.
5. ALL EQUIPMENT INSTALLED ON ELEVATED ROOFS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ROOF EDGE PER 2021 IMC SECTION 306.
6. BUILDING HEATING AND COOLING LOADS ARE PERFORMED IN ACCORDANCE WITH ASHRAE/ACCA STANDARD 183, THROUGH THE USE OF COMPUTER LOAD CALCULATION PROCEDURES IN ACCORDANCE WITH 2021 IMC 312, AND 2021 IECC CHAPTER 3. THE METHODOLOGY UTILIZED IN LOAD CALCULATIONS IS TETD-TA1 IN ACCORDANCE WITH ASHRAE STANDARD 183 APPENDIX A. BUILDING PROPERTIES UTILIZED FOR HEATING AND COOLING LOAD CALCULATIONS HAVE BEEN PERFORMED BASED ON DESIGN ENVELOPE, FENESTRATION, LIGHTING, OCCUPANCY AS OUTLINED ON THE CONSTRUCTION DOCUMENTS, AND WEATHER CONDITIONS PER 2021 IECC SECTION 402.
7. ALL DUCTWORK SHALL BE CONSTRUCTED, INSTALLED, AND SEALED PER 2021 IMC SECTION 603.
8. PIPING SHALL BE INSTALLED AS TO PREVENT DETRIMENTAL STRAINS AND STRESSES PER 2021 IMC SECTION 1206.
9. DUCT AND TRANSFER OPENINGS SHALL BE INSTALLED IN ACCORDANCE WITH 2021 IMC SECTION 607. FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED WHERE REQUIRED IN 2021 IBC SECTIONS 714.2 THROUGH 714.4.
10. BUILDING PROPERTIES UTILIZED FOR BUILDING HEATING AND COOLING LOAD CALCULATIONS SHALL BE PERFORMED BASED ON DESIGN ENVELOPE, FENESTRATION, LIGHTING, OCCUPANCY, AND WEATHER CONDITIONS AS OUTLINED ON THE CONSTRUCTION DOCUMENTS PER 2021 IECC SECTION C402. REFER TO ARCHITECTURAL AND ELECTRICAL FOR REPRESENTATIVE ENVELOPE AND LIGHTING INFORMATION.
11. BUILDING MECHANICAL HEATING AND COOLING EQUIPMENT SHALL MEET MINIMUM ENERGY EFFICIENCIES OUTLINED IN 2021 IECC SECTION C403.

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
ABV	ABOVE
AC	AIR CONDITIONER / CONDITIONING
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ALT	ALTITUDE
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE, APPROXIMATELY
ARCH	ARCHITECT, ARCHITECTURAL
BLW	BELOW
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
ΔT °F	CHANGE IN TEMPERATURE DEGREES FAHRENHEIT
CONC	CONCRETE
CONT	CONTINUE
CONST	CONSTRUCT, CONSTRUCTION
COORD	COORDINATE
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
(E)	EXISTING
ESP	EXTERNAL STATIC PRESSURE
°F	DEGREES FAHRENHEIT
FT	FEET
FLR	FLOOR
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HZ	HERTZ
HORIZ	HORIZONTAL
HP	HORSEPOWER
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1,000 BTUH
MFG	MANUFACTURER
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MTD	MOUNTED
(N)	NEW
NC	NORMALLY CLOSED, NOISE CRITERIA
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
PSIG	POUNDS PER SQUARE INCH GAUGE
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
(R)	RELOCATED
RA	RETURN AIR
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RPM	REVOLUTIONS PER MINUTE
Ø	ROUND, PHASE
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATING
SL	SEA LEVEL
SS	STAINLESS STEEL
TCC	TEMPERATURE CONTROL CONTRACTOR
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
T'STAT	THERMOSTAT
TYP	TYPICAL
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
V	VOLTS
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WT	WEIGHT

GENERAL

SYMBOL	DESCRIPTION
	CONNECT NEW TO EXISTING
-#	REFERENCE BUBBLE * SECTION NUMBER # SHEET NUMBER
#	REVISION NUMBER
-#	SECTION OR ELEVATION BUBBLE * SECTION OR ELEVATION LETTER # REFERENCE DRAWING NUMBER
-#	ISOMETRIC OR ELEVATION BUBBLE * ISOMETRIC OR ELEVATION LETTER # REFERENCE DRAWING NUMBER
#	DRAWING NOTE
#	DEMOLITION NOTE
X	DEMOLITION NOTE, ALTERNATE
#	DRAWING NOTE, ALTERNATE

HVAC LEGEND

ALL SYMBOLS MAY NOT BE USED

SYMBOL	DESCRIPTION
HS	HOT WATER SUPPLY
HR	HOT WATER RETURN
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
PC	PUMPED CONDENSATE
D	EQUIPMENT DRAIN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
G	GAS, LOW-PRESSURE
MG	GAS, MEDIUM-PRESSURE
HG	GAS, HIGH-PRESSURE
GV	GAS VENT
H	HUMIDISTAT
P	PRESSURE SENSOR
S	SENSOR
C	CO2 SENSOR
C_x	CO SENSOR
T	WALL MOUNTED THERMOSTAT
	UNIT MOUNTED THERMOSTAT
I_x	SWITCH
	FIRE DAMPER
	COMBINATION FIRE / SMOKE DAMPER
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT
M	MOTORIZED DAMPER
	DIRECTION OF FLOW
	INDICATES PIPE SLOPE DOWN
	PIPING CAP
	PIPING UP
	PIPING DOWN
	BOTTOM OF PIPE CONNECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	PIPE ANCHOR
	PIPE GUIDE
	FLOW MEASURING DEVICE
	PLUG VALVE
	COMBINATION FLOW MEASURING DEVICE AND BALANCING VALVE
	AUTOMATIC 2-WAY TEMPERATURE CONTROL VALVE
	AUTOMATIC 3-WAY TEMPERATURE CONTROL VALVE
S	SOLENOID VALVE
	PRESSURE REDUCING VALVE
P/T	PRESSURE/TEMPERATURE PORT
	FLOW SWITCH
	SHUTOFF VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BALL VALVE
	HOSE END DRAIN VALVE
	STRAINER WITH BLOW-OFF VALVE
	STRAINER
	UNION
	PRESSURE GAUGE
	THERMOMETER
	SAFETY RELIEF VALVE
	IN-LINE PUMP
	MANUAL AIR VENT
	RECTANGULAR SUPPLY AIR DUCT UP
	RECTANGULAR SUPPLY AIR DUCT DOWN
	RECTANGULAR RETURN / EXHAUST AIR DUCT UP
	RECTANGULAR RETURN / EXHAUST AIR DUCT DOWN
	ROUND DUCT UP
	ROUND DUCT DOWN
	BRANCH DUCT 45° TAKE-OFF
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
	RADIUS ELBOW RECTANGULAR / ROUND DUCT
	DUCT TRANSITION
	FLEX CONNECTION
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT
	CONICAL SPIN-IN FITTING
	CONICAL SPIN-IN FITTING WITH DAMPER
	FLEXIBLE DUCT
	INDICATES ITEMS TO BE REMOVED

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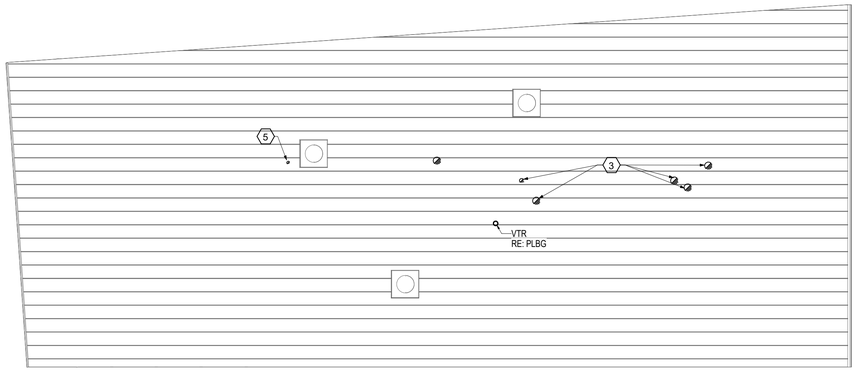

C1 HEADQUARTERS & RESTROOM BUILDING - MECHANICAL ROOF PLAN

M-111A 1/8" = 1'-0"

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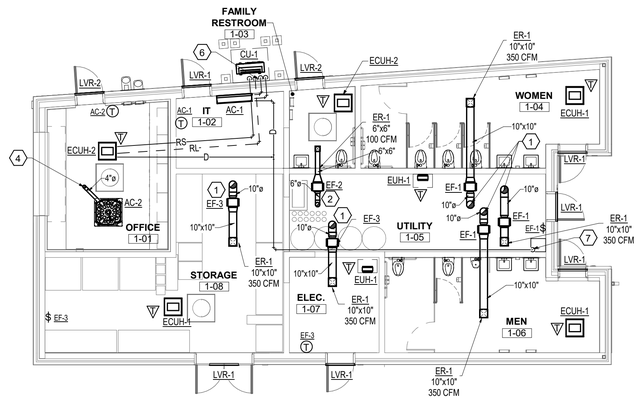

A1 HEADQUARTERS & RESTROOM BUILDING - MECHANICAL FLOOR PLAN

M-111A 1/8" = 1'-0"

N

DRAWING NOTES

1. 10"Ø EXHAUST DUCT UP TO MANUFACTURER'S ROOF CAP TERMINATION ON ROOF.
2. 6"Ø EXHAUST DUCT UP TO MANUFACTURER'S ROOF CAP TERMINATION ON ROOF.
3. PROVIDE MANUFACTURER'S ROOF CAP AT EXHAUST TERMINATION.
4. 4"Ø OUTSIDE AIR DUCT UP THROUGH ROOF AND TERMINATE AT MANUFACTURER'S INTAKE CAP.
5. 4"Ø OUTSIDE AIR DUCT DOWN TO AC-2 BELOW.
6. RS/RL PIPING DOWN ALONG EXTERIOR WALL TO CONDENSING UNIT CONNECTION.
7. CONDENSATE DRAIN PIPING DOWN ALONG WALL TO TERMINATION IN MOP SINK.

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Key Map

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HEADQUARTERS & RESTROOM - MECHANICAL PLANS

M-111A

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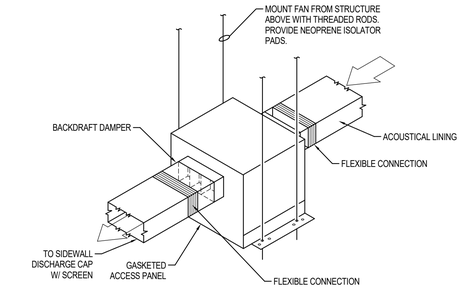
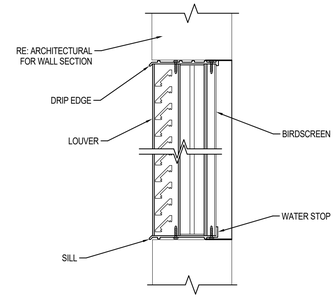


4 IN-LINE CEILING EXHAUST FAN DETAIL
NOT TO SCALE



1 LOUVER DETAIL
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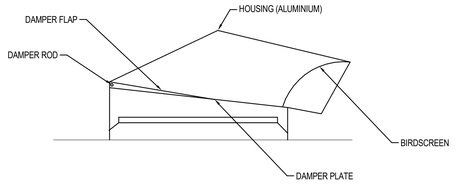

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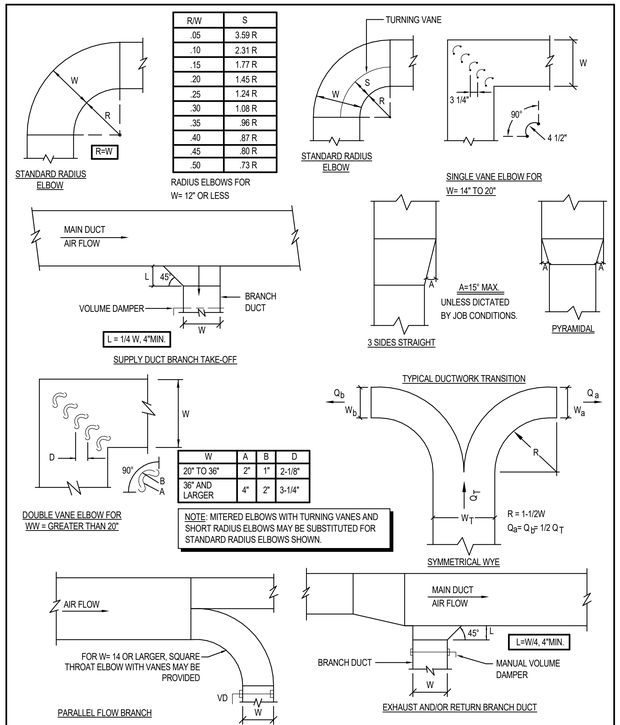
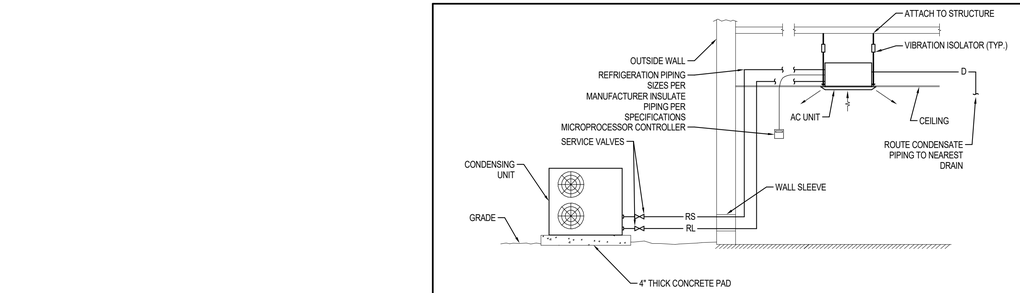
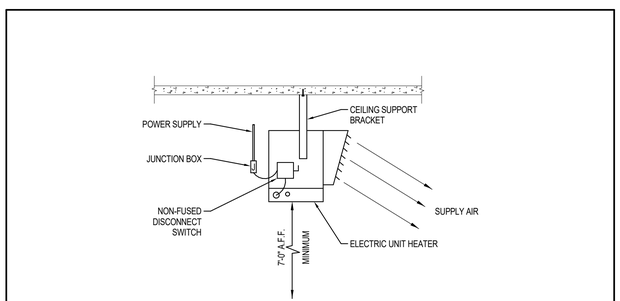
NOT TO SCALE



2 DUCT CONNECTION DETAILS
NOT TO SCALE



6 DUCTLESS SPLIT SYSTEM DIAGRAM
NOT TO SCALE



3 ELECTRIC UNIT HEATER MOUNTING DETAIL
NOT TO SCALE

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Sheet Issue Date: 2025-05-02
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Key Map

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MECHANICAL DETAILS

M-501

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PIPE INSULATION SCHEDULE

SERVICE	LOCATION	INSULATION MATERIAL	VAPOR BARRIER	JACKET	OPERATING TEMPERATURE (° F)	INSULATION CONDUCTIVITY		NOMINAL PIPE SIZE (IN)					REMARKS
						CONDUCTIVITY BTU * IN / (H * FT * ° F)	MEAN TEMP RATING (° F)	< 1	1 TO 1-1/2	1-1/2 TO 4	4 TO 8	≤ 8	
DOMESTIC COLD WATER	INTERIOR	GLASS FIBER WITH ASJ-SSL	YES	NONE	40 - 60	0.21 - 0.27	75	0.5	0.5	1	1	1	-
DOMESTIC HOT WATER & RECIRC.	INTERIOR	GLASS FIBER WITH ASJ-SSL	NONE	NONE	120 - 140	0.21 - 0.28	100	1	1.5	1.5	1.5	1.5	-

NOTES:
1. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS.
2. (ASTM E84) ALL INSULATION MATERIALS INSTALLED WITHIN THE PLENUM SHALL MEET THE FLAME/SMOKE REQUIREMENTS OF 25/50.

REMARKS:
1. FOR PIPING SMALLER THAN 1-1/2" INSTALLED WITHIN A BUILDING PARTITION WITHIN A CONDITIONED SPACE. INSULATION REDUCTION OF UP TO 1" BUT NOT LESS THAN 1" PER IECC TABLE C403.12.3, NOTE A.

Job Title: Salisbury Park North - Headquarters and Restrooms
Job #: 023-039
Date 4/29/2025

2021 IPC DOMESTIC WATER SIZING
PER APPENDIX E

FIXTURE TYPE	OCCUPANCY	TYPE OF SUPPLY CONTROL	QTY	WATER SUPPLY FIXTURE UNIT LOAD VALUES (1) CW PER FIX.	CW TOTAL	HW PER FIX.	HW TOTAL	COMBINED HW & CW PER FIX.	COMBINED HW & CW TOTAL	WASTE FIX. DFU	WASTE TOTAL DFU
Drinking Fountain	Public	Faucet	1	0.25	0.25	0	0	0.25	0.25	0.5	0.5
Kitchen Sink	Hotel/Restaurant	Faucet	0	3	0	3	0	4	0	2	0
Lavatory	Public	Faucet	5	1.5	7.5	1.5	7.5	2	10	1	5
Service Sink/Basin	Offices	Faucet	1	2.25	2.25	2.25	2.25	3	3	2	2
Urinal	Public	3/4" Flush Valve	1	5	5	0	0	5	5	2	2
Water Closet	Public	Flush Valve	7	10	70	0	0	10	70	4	28
Floor Drains- 2"			5	0	0	0	0	0	0	3	15
Indirect Waste-2"			1	0	0	0	0	0	0	3	3
Indirect Waste-4"			1	0	0	0	0	0	0	6	6
Handsink	Public	Faucet	0	1.5	0	1.5	0	2	0	1	0
TOTAL FU					85		10		88.25		61.50
TOTAL GPM (From Hunter's Curve or Demand Estimate Table)					62.8		27		63.8		54.6

WATER SERVICE SIZE	1-1/2"	Per 2021 IPC Table E104.1: 100'-0" Maximum Length, over 60 psig pressure range.
WATER METER SIZE	1-1/2"	Per 2021 IPC Table E104.1: 100'-0" Maximum Length, over 60 psig pressure range.
DISTRIBUTION SIZE	1-1/2"	Per 2021 IPC Table E104.1: 100'-0" Maximum Length, over 60 psig pressure range.
SANITARY SEWER SIZE	4"	Per 2021 IPC Table 710.1(1) at 1/8" per foot slope

PLUMBING ABBREVIATIONS

SYMBOL	DESCRIPTION
ABV	ABOVE
A.D.A.	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANT	ACID NEUTRALIZATION TANK
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
AVTR	ACID VENT THROUGH ROOF
BFP	BACK FLOW PREVENTER
BLW	BELOW
BV	BALL VALVE
C	COMMON
CFH	CUBIC FEET PER HOUR
C.I.	CAST IRON PIPING
CLG	CEILING
COL	COLUMN
CMV	COMBINATION WASTE & VENT
CONC	CONCRETE
CONN	CONNECT
CONT	CONTINUE
CONST	CONSTRUCT, CONSTRUCTION
COOR	COORDINATE
CS	CRAWLSPACE
CV	CHECK VALVE
DN	DOWN
DW	DISHWASHER
(E)	EXISTING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATION
EWC	ELECTRIC WATER COOLER
F	FAHRENHEIT
FLR	FLOOR
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HDR	HEADER
HORIZ	HORIZONTAL
HP	HORSEPOWER
IE	INVERT ELEVATION
IW	INDIRECT WASTE
INT	INTEGRAL
JST(S)	JOIST(S)
KEC	KITCHEN EQUIPMENT CONTRACTOR
LOC	LOCATION
MANUF	MANUFACTURE
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNIT PER HOUR
MC	MECHANICAL CONTRACTOR
MG	MEDIUM PRESSURE GAS
MIN	MINIMUM
MS	MEMORY STOP
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN / NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
PH	PHASE
P.O.C.	POINT OF CONNECTION
PROV	PROVIDE
PRV	PRESSURE REDUCING VALVE
PSIG	PRESSURE PER SQUARE INCH GAUGE
PTR	PRESSURE AND TEMPERATURE RELIEF
PVC	POLYVINYL CHLORIDE PIPING
(R)	RELOCATED
RE	REFERENCE
REQD	REQUIRED
SAN	SANITARY PIPING
SHT	SHEET
SQ	SQUARE
SIM	SIMILAR
SRV	SAFETY RELIEF VALVE
SS	STAINLESS STEEL
TCC	TEMPERATURE CONTROL
TYP	TYPICAL
V	VENT PIPING
VERT	VERTICAL
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
W	WITH

PLUMBING GENERAL NOTES

CODE NOTES
ABBREVIATIONS USED WITHIN INCLUDE:

YEAR	ABBREV.	CODE TYPE
2021	IBC	INTERNATIONAL BUILDING CODE
2021	IEBC	INTERNATIONAL EXISTING BUILDING CODE
2021	IMC	INTERNATIONAL MECHANICAL CODE
2021	IECC	INTERNATIONAL ENERGY CONSERVATION CODE
2021	IPC	INTERNATIONAL PLUMBING CODE
2021	IFC	INTERNATIONAL FIRE CODE
2021	IFGC	INTERNATIONAL FUEL GAS CODE
2023	NEC	NATIONAL ELECTRICAL CODE
2017	ICC	INTERNATIONAL CODE COUNCIL (A117.1)
2017	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
2021	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION

1. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AS NOTED ABOVE.
2. ALL INFORMATION SHOWN ON THESE DRAWINGS INCLUDING LOCATION AND SIZES ARE BASED ON THE BEST INFORMATION AVAILABLE. INFORMATION SHOWN IS TO INDICATE THE INTENT OF THE PLUMBING SYSTEM WORK BUT MAY NOT REFLECT THE EXACTROUTING AND LOCATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING EQUIPMENT, PIPING, CONNECTIONS, STRUCTURE, ELECTRICAL, LIGHTING AND ARCHITECTURAL INFLUENCES PRIOR TO INSTALLATION OF THE NEW WORK TO AVOID ANY CONFLICTS WITH SYSTEMS REQUIRING MODIFICATIONS. NOTIFY ENGINEER OF ANY CONFLICTS, PRIOR TO PERFORMING WORK.
3. OFFSET ALL PIPING AS REQUIRED TO AVOID STRUCTURAL MEMBERS, FLASHING, MECHANICAL AND ELECTRICAL EQUIPMENT.
4. DO NOT SCALE DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATIONS OF ALL PLUMBING FIXTURES, GENERAL PURPOSE FLOOR DRAINS, AND ADDITIONAL EQUIPMENT REQUIRING PLUMBING CONNECTIONS.
5. COORDINATE SANITARY DRAINAGE UTILITY LOCATIONS AND INVERT ELEVATIONS PRIOR TO COMMENCING WORK, NOTIFY ARCHITECT IMMEDIATELY IF CONDITIONS DISCOVERED WILL NOT ALLOW SYSTEM INSTALLATION AS DESIGNED.
6. SEE ISOMETRICS AND DIAGRAMS FOR BRANCH PIPE SIZES NOT INDICATED IN PLAN.
7. SEE ARCHITECTURAL PLANS AND DETAILS FOR MOUNTING ELEVATIONS OF ALL PLUMBING FIXTURES.
8. MOUNT WALL HYDRANTS AND HOSE BIBBS AT 18" ABOVE SURROUNDING GRADE OR FINISHED FLOOR ELEVATIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
9. COORDINATE EXACT ROUGH-IN CONNECTION LOCATIONS AND SIZES WITH EQUIPMENT SUPPLIER PRIOR TO COMMENCING WORK ASSOCIATED WITH EQUIPMENT BEING FURNISHED BY OTHERS.
10. SEE HVAC PLANS FOR FINAL LOCATION OF ALL HVAC EQUIPMENT, INSTALLATION.
11. ALL WORK SHALL AT A MINIMUM COMPLY WITH THE REQUIREMENTS OF THE 2021 INTERNATIONAL PLUMBING AND THE 2021 INTERNATIONAL FUEL GAS CODES.
12. ALL MATERIALS IN THE PLENUM SPACE SHALL MEET THE FLAME SPREAD AND SMOKE DEVELOPMENT INDEX PER 2021 INTERNATIONAL MECHANICAL CODE SECTION 602.2.1. AND SHALL BE LISTED AND LABELED FOR INSTALLATION WITHIN A PLENUM.
13. ALL EQUIPMENT AND MATERIALS USED IN THE DISTRIBUTION OF DOMESTIC POTABLE WATER SHALL BE APPROVED AND TESTED FOR SUCH APPLICATION WITH DOCUMENTED LISTINGS AND LABELING IN ACCORDANCE WITH THE LATEST EDITION OF THE COLORADO PLUMBING CODE AND THE INTERNATIONAL PLUMBING CODE, PUBLIC LAW 111-380 AND ANSI/NSF-61, ANNEX G.
14. EXTEND ALL VENT TERMINATIONS THROUGH THE ROOF A MINIMUM OF 20' FROM ALL OUTSIDE AIR INTAKES, AND OTHER BUILDING OPENINGS.
15. DOMESTIC HOT WATER RECIRCULATION PIPING SHALL MEET IECC/21- 404.5 REQUIREMENTS FOR MAXIMUM PIPING LENGTHS AS SHOWN IN TABLE C404.5.1.

PLUMBING LEGEND
ALL SYMBOLS MAY NOT BE USED

SYMBOL	DESCRIPTION
SD	STORM DRAIN, RAINWATER DRAIN
OD	OVERFLOW STORM DRAIN
SSD	SUBSOIL DRAIN, FOOTING DRAIN
SAN	SOIL, WASTE, OR SANITARY SEWER
SD	STORM / RAINWATER DRAIN BELOW FLOOR
SAN	SOIL / WASTE / SANITARY SEWER BELOW FLR
GD	GREASE DRAIN
	VENT
D	INDIRECT DRAIN
PD	PUMP DISCHARGE LINE
	COLD WATER
	HOT WATER SUPPLY (140° F)
	HOT WATER RECIRCULATING (140° F)
TW	TEMPERED HOT WATER (110° F)
TWR	TEMPERED HW RECIRCULATING (110° F)
CD	CONDENSATE DRAIN
F	FIRE PROTECTION WATER SUPPLY
G	GAS, LOW-PRESSURE
MG	GAS, MEDIUM-PRESSURE
	ISOLATION VALVE
	GLOBE VALVE
	ANGLE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	GAS COCK, GAS STOP
	COMBINATION FLOW MEASURING DEVICE AND BALANCING VALVE
	THERMOSTATIC BALANCING VALVE
	CHECK VALVE
	PLUG VALVE
S	SOLENOID VALVE
M	MOTOR-OPERATED VALVE [SPECIFY TYPE]
	PRESSURE REDUCING VALVE
P	PRESSURE-RELIEF VALVE
T	TEMPERATURE-PRESSURE-RELIEF VALVE
	HOSE BIBB
	VALVE IN YARD BOX (VALVE TYPE SYMBOL AS REQUIRED FOR VALVE USE)
	RECESSED-BOX HOSE BIBB OR WALL HYDRANT
	UNION (SCREWED)
	UNION (FLANGED)
	STRAINER
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	TEE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	AQUASTAT
	FLOW SWITCH
	PRESSURE SWITCH
	WATER HAMMER ARRESTER
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER
	VALVE IN RISER
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	AIR CHAMBER
	RISE OR DROP
	BRANCH-TOP CONNECTION
	BRANCH-BOTTOM CONNECTION
	BRANCH-SIDE CONNECTION
	CAP ON END OF PIPE
	CLEANOUT PLUG
	CIRCULATION PUMP
	FLOOR CLEANOUT
	WALL CLEANOUT
	YARD CLEANOUT OR CLEANOUT TO GRADE
	FLOOR DRAIN
	FLOOR SINK
	CONDUCTOR NOZZLE
	DIRECTION OF FLOW
	INDICATES PIPE SLOPE DOWN
	NEW TO EXISTING CONNECTION
	INDICATES ITEMS TO BE REMOVED
	GAS TURRET

GENERAL

SYMBOL	DESCRIPTION
	CONNECT NEW TO EXISTING
* / #	REFERENCE BUBBLE * SECTION NUMBER # SHEET NUMBER
#	REVISION NUMBER
* / #	SECTION OR ELEVATION BUBBLE * SECTION OR ELEVATION LETTER # REFERENCE DRAWING NUMBER
* / #	ISOMETRIC OR ELEVATION BUBBLE * ISOMETRIC OR ELEVATION LETTER # REFERENCE DRAWING NUMBER
#	DRAWING NOTE
#	DEMOLITION NOTE
X	DEMOLITION NOTE, ALTERNATE
#	DRAWING NOTE, ALTERNATE

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Key Map

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DOMESTIC WATER PRESSURE REDUCING VALVE SCHEDULE

SYMBOL	SERVES	MANUF.	MODEL NUMBER	INLET SIZE	OUTLET SIZE	INLET PRESSURE PSIG	OUTLET PRESSURE PSIG	FALL-OFF PRESSURE	REMARKS
PRV-1	BLDG	WATTS	LF25AUB-Z3	1-1/2"	1-1/2"	112	75	17.5	1

REMARKS:
1. INTEGRAL STRAINER, DOUBLE UNION NPT INLET AND OUTLET, LEAD-FREE

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	SERVICE	MANUF.	MODEL NUMBER	STORAGE CAP	KW INPUT	AMPS	VOLTAGE / PHASE	RECOVERY RATE @ DEGREE RISE	WEIGHT (LBS.)	MINIMUM EFFICIENCY	REMARKS
EWH-1	HUB BLDG HQ BLDG.	A.O. SMITH	DEL-30	33 GAL.	6.0	7.25	480 / 3	24 GPH @ 100° F	420	0.92 UEF	1, 2

REMARKS:
1. LOW BOY STORAGE ELECTRIC HEATER WITH DUAL ELEMENTS, SIMULTANEOUS OPERATION, MANUAL RESET HIGH AND LOW PRESSURE TEMPERATURE CUTOFF, DUAL ANODE RODS, TEMPERATURE AND PRESSURE RELIEF VALVE, DRAIN VALVE.
2. PROVIDE HOLDRITE MODEL 50-SWHP - WALL MOUNTED WATER HEATER PLATFORM WITH PVC DRAIN FITTING.

DOMESTIC WATER CIRCULATION PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL NUMBER	INLET SIZE	OUTLET SIZE	FLOW RATE	HEAD	WATTS	RPM	ELECTRICAL CHARACTER	SERVICE	REMARKS
CP-1	B&G	ECOCIRC 20-18	3/4"	3/4"	3 GPM	15 FT.	0-70	3800	115 VOLT / 1 PHASE	EWH-1	1, 2

REMARKS:
1. WATER TEMP: 120° F.
2. CONSTANT PRESSURE OPERATING MODE, PROVIDE WITH 24 HOUR TIME CLOCK AND REMOTE TEMPERATURE SENSING BULB.

DOMESTIC WATER EXPANSION TANK SCHEDULE

SYMBOL	SERVES	MANUF.	MODEL NUMBER	INLET SIZE	TOTAL VOLUME (GALLONS)	ACCEPTANCE VOLUME IN GALLONS	DIAMETER (INCHES)	HEIGHT (INCHES)	INITIAL CHARGE PRESSURE	WEIGHT (LBS.)	REMARKS
DET-1	EWH-1	AMTROL	ST-5	3/4"	2.0	0.9	8	13	60 PSI	-	1

REMARKS:
1. WATER TEMP: 120° F. INITIAL CHARGE PRESSURER SHALL MATCH DOMESTIC WATER SYSTEM STATIC PRESSURE.

WATER MIXING VALVE SCHEDULE

SYMBOL	SERVICE	MANUF.	MODEL NUMBER	INLET SIZE	OUTLET SIZE	INLET TEMPERATURE (° F)		OUTLET TEMPERATURE (° F)	MINIMUM FLOW (GPM)	REMARKS
						CW	HW			
TMV-1	LAVATORY	WATTS	LFUSG-B-M3	3/8"	3/8"	40	120	110	0.5	1,2,3

REMARKS:
1. SURFACE MOUNTED, PROVIDE COMPLETE WITH WALL MOUNTING BRACKET; LEAD FREE DESIGN, INLET STRAINER CHECKSTOPS.
2. MINIMUM FLOW OF 0.5 GPM WITH OPERATIONAL CIRCULATION.
3. THERMOSTATIC MIXING VALVE TO MEET ASSE 1070.

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	REMARKS
BFP-1	REDUCED PRESSURE BACKFLOW PREVENTER	WILKINS	975XL3	EXTEND FUNNEL DRAIN FULL SIZE TO FLOOR SINK. NSF-61. 2" SIZE
BFP-2	REDUCED PRESSURE BACKFLOW PREVENTER	WILKINS	975XL3	EXTEND FUNNEL DRAIN FULL SIZE TO FLOOR SINK. NSF-61. 3/4" SIZE.
FCO-1	FLOOR CLEANOUT	J.R. SMITH	4220	CAST IRON ADJUSTABLE CLEANOUT WITH ROUND BRONZE TOP AND ABS PLUG.
FD-1	FLOOR DRAIN (GENERAL)	J.R. SMITH	2005Y	6"Ø STRAINER W/ VANDAL RESISTANT SCREWS. PROVIDE WITH TRAP GUARD.
FS-1	FLOOR SINK	J.R. SMITH	3430Y-PDBS-12	12" SQ. 8" DEEP W/ ALUMINUM DOME BOTTOM STRAINER AND 1/2 A.R.C. GRATE. PROVIDE WITH TRAP GUARD.
GCO-1	2-WAY GRADE CLEANOUT	J.R. SMITH	4261-L	(2) REQ'D. PROVIDE TYLER #003519 2-WAY CLEANOUT FITTING, VANDAL RESISTANT SCREWS.
HB-1	HOSE BIBB	WOODFORD	B75	BOX TYPE, 1/2" INLET, POLISHED CHROME
TG-1	TRAP GUARD	J.R. SMITH	2" = 2692-02 3" = 2692-03 4" = 2692-04	BARRIER TRAP SEAL GUARD (ASSE 1072). PROVIDE SIZE AS REQUIRED.
WCO-1	WALL CLEANOUT	J.R. SMITH	4710-U	STAINLESS STEEL SHALLOW COVER, ROUND FACE W/ VANDAL RESISTANT CENTER SCREW.
WH-1	WALL HYDRANT	WOODFORD	B67	BOX TYPE, 3/4" INLET, POLISHED CHROME
WHA-1	WATER HAMMER ARRESTOR	PPP	SC-500A	COMPLETE WITH SERVICE ISOLATION VALVE AND ACCESS PANEL.
WHA-2	WATER HAMMER ARRESTOR	PPP	SC-750B	COMPLETE WITH SERVICE ISOLATION VALVE AND ACCESS PANEL.
WHA-3	WATER HAMMER ARRESTOR	PPP	SC-1000C	COMPLETE WITH SERVICE ISOLATION VALVE AND ACCESS PANEL.
WHA-4	WATER HAMMER ARRESTOR	PPP	SC-1250D	COMPLETE WITH SERVICE ISOLATION VALVE AND ACCESS PANEL.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	ROUGH-IN CONNECTIONS						GPF	REMARKS
				TRAP	W	V	CW	HW	FLOW		
DF-1	DRINKING FOUNTAIN	HAWS	1119FR-1920FR	1-1/4"	2"	2"	1/2"	-	0.13	-	1, 2
L-1	WALL HUNG LAVATORY	ACORN	1652LRB	1-1/4"	2"	2"	1/2"	1/2"	0.5	-	1, 3
MSB-1	MOP SERVICE BASIN FAUCET	FIAT CHICAGO	TSB3000 540-LD897SXKCCP	3"	3"	2"	1/2"	1/2"	-	-	4
UR-1	WALL HUNG URINAL FLUSH VALVE CARRIER	ACORN ZURN J.R. SMITH	1707 ZER6195AV 0617	INT.	2"	2"	3/4"	-	-	1.0	1, 5
WC-1	WALL MTD. WATER CLOSET FLUSH VALVE CARRIER	ACORN ZURN J.R. SMITH	2105BAR ZER6152AV 211Y-M54-XK-BS	INT.	4"	2"	1"	-	-	1.6	6
WC-2	WALL MTD. WATER CLOSET ADA FLUSH VALVE CARRIERR	ACORN ZURN J.R. SMITH	2105BAR AER6152AV 211Y-M54-XK-BS	INT.	4"	2"	1"	-	-	1.6	1, 6

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT ELEVATIONS OF ALL PLUMBING FIXTURES PRIOR TO INSTALLATION.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION WHICH MAY NOT BE NOTED HERE.
3. ALL EQUIPMENT AND MATERIALS USED IN THE DISTRIBUTION OF DOMESTIC POTABLE WATER SHALL BE APPROVED AND TESTED FOR SUCH APPLICATION WITH DOCUMENTED LISTINGS AND LABELING IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE, PUBLIC LAW 111-380 AND ANSI/NSF-61, ANNEX G.
4. PROVIDE FRESH SET OF BATTERIES FOR ALL BATTERY POWERED COMPONENTS AT TIME OF PROJECT FINAL CLOSEOUT.

REMARKS:
1. FIXTURE DESIGNATED TO BE IN COMPLIANCE WITH ANSI-A117.1.
2. WALL MOUNTED, VANDAL RESISTANT DUAL HEIGHT FOUNTAIN AND BOTTLE FILLER, LEAD-FREE, PNEUMATIC-OPERATED, FREEZE RESISTANT VALVES AND TRAP MOUNTED IN CABINET, CHROME PLATED, VANDAL-RESISTANT BUBBLERS, VANDAL-RESISTANT STRAINERS, VANDAL-RESISTANT BOTTOM PLATES.
3. WALL HUNG, 18" WIDE ADA COMPLIANT WITH RECTANGULAR BOWL, 14 GA. 304 STAINLESS STEEL, SEEMLESS WELDED, SATIN FINISH, DECK MOUNTED SPOUT, ELECTRONIC, BATTERY POWERED FAUCET CONTROLLER, SINGLE TEMPERED METERING ELECTRONIC SOLENOID VALVE, THROUGH WALL WASTE EXTENSION WITH P-TRAP, METAL TEMPLATE AND WALL SLEEVE. FURNISH COMPLETE WITH HEAVY DUTY WALL MOUNTING HARDWARE.
4. 24" SQUARE BY 12" DEEP TERRAZZO WITH DROP FRONT, STAINLESS STEEL RIM GUARDS ALL SIDES, PROVIDE WITH STAINLESS STEEL WALL GUARDS AND INTEGRAL STRAINER; WALL MOUNTED FAUCET WITH VACUUM BREAKER SPOUT, PAIL HOOK, WALL BRACE, 1/4 TURN CERAMIC CARTRIDGES WITH INTEGRAL CHECK VALVES, PROVIDE IN-LINE STRAIGHT PATTERN STOPS WITH THROUGH WALL EXTENSION.
5. 14 GA., 304 STAINLESS STEEL WALL HUNG WASHOUT URINAL WITH CONCEALED BACK INLET, INTEGRAL, WELDED DRAIN STRAINER, FULLY ENCLOSED P-TRAP; CONCEALED DIAPHRAGM TYPE FLUSH VALVE WITH ELECTRONIC BATTERY POWERED, REMOTE SENSOR AND MANUAL OVERRIDE BUTTON; HEAVY DUTY FLOOR MOUNTED SUPPORT CARRIER.
6. WALL HUNG, SIPHON JET, 16 GA. TYPE 304 STAINLESS STEEL WITH BLACK HINGED SEAT, BACK INLET FOR CONCEALED DIAPHRAGM TYPE FLUSH VALVE WITH ELECTRONIC BATTERY POWERED, REMOTE SENSOR AND MANUAL OVERRIDE BUTTON; HEAVY DUTY, BARIATRIC RATED OFF FLOOR SUPPORT WITH HORIZONTAL DRAIN FITTING.

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PLUMBING SCHEDULES

P-002

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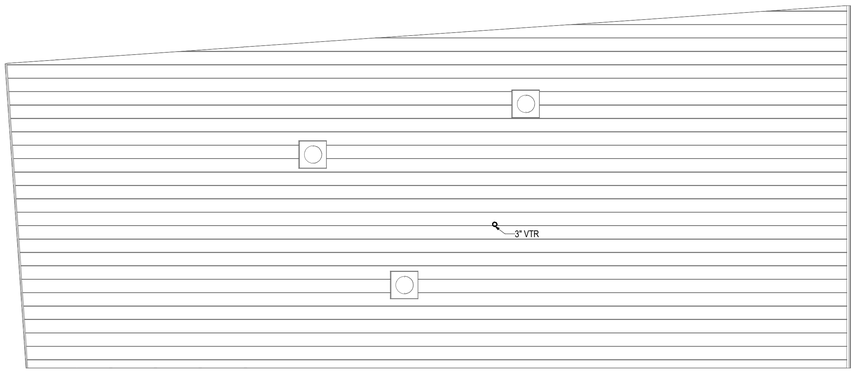
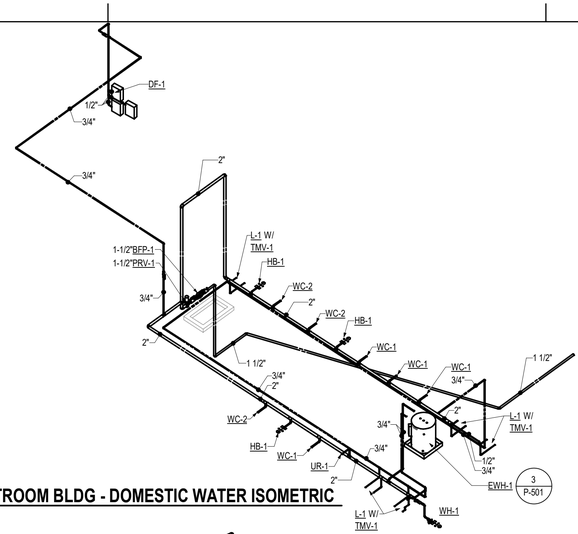


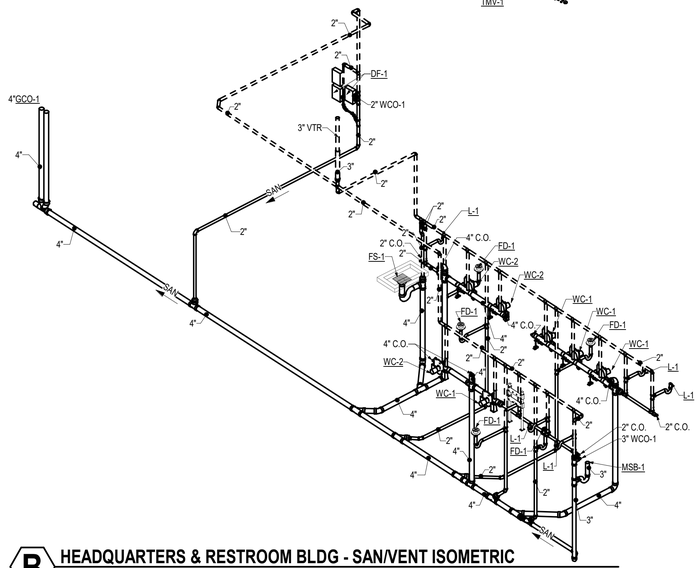
C1 HEADQUARTERS & RESTROOM BUILDING - PLUMBING ROOF PLAN

P-111A 1/8" = 1'-0"



A HEADQUARTERS & RESTROOM BLDG - DOMESTIC WATER ISOMETRIC

NOT TO SCALE

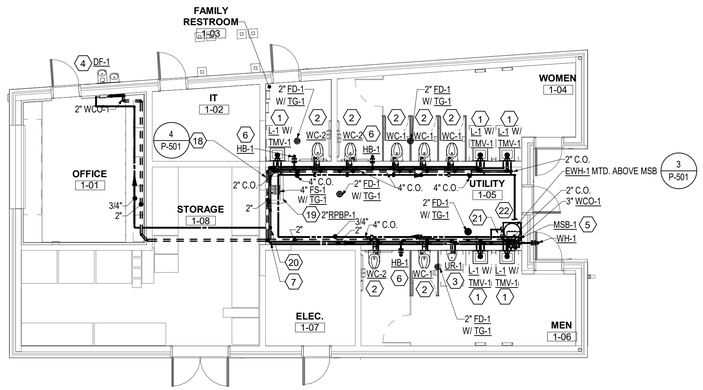


B HEADQUARTERS & RESTROOM BLDG - SAN/VENT ISOMETRIC

NOT TO SCALE

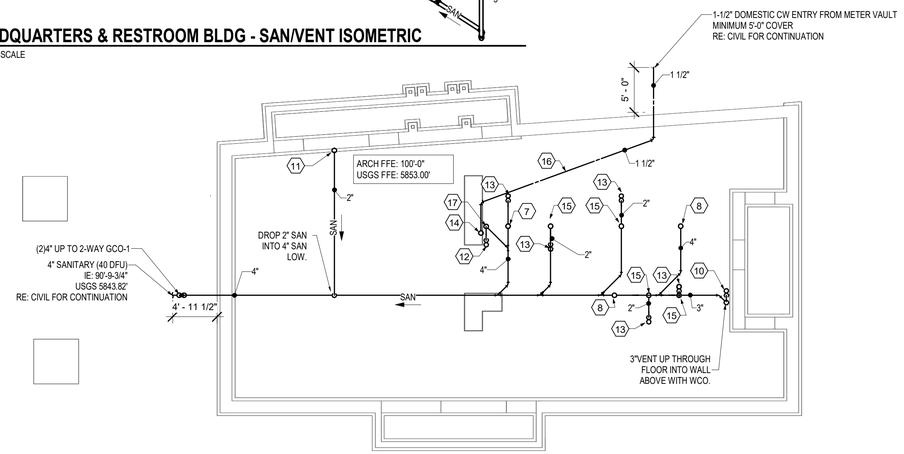
DRAWING NOTES

1. 1/2" CW, 1/2" HW, 2" SANITARY AND 2" VENT TO LAVATORY / SINK.
2. 1" CW, 4" SANITARY, AND 2" VENT TO WATER CLOSET.
3. 3/4" CW, 2" SANITARY, AND 2" VENT TO URINAL.
4. 1/2" CW, 2" SANITARY, AND 2" VENT TO DRINKING FOUNTAIN.
5. 1/2" CW, 1/2" HW, 3" SANITARY AND 2" VENT TO MOP SERVICE BASIN.
6. 3/4" CW TO HOSE BIBB.
7. 2" VENT UP TO 3"VTR.
8. 4" SANITARY UP THROUGH FLOOR ABOVE.
9. 4" SANITARY UP TO FLOOR CLEANOUT ABOVE.
10. 3" SANITARY WITH P-TRAP UP TO MOP SERVICE BASIN.
11. 2" SANITARY UP TO DRINKING FOUNTAIN ABOVE.
12. 4" SANITARY WITH P-TRAP UP TO FLOOR SINK ABOVE.
13. 2" SANITARY WITH P-TRAP UP TO FLOOR DRAIN ABOVE.
14. 1-1/2" CW UP TO BACKFLOW PREVENTER ABOVE.
15. 2" VENT UP THROUGH FLOOR ABOVE.
16. 1-1/2" SOFT (TYPE K) COPPER BELOW SLAB, NO JOINTS.
17. 2" VERTICAL WET VENT UP TO LAVATORY ABOVE.
18. 1-1/2" METERED COLD WATER UP FROM BELOW FLOOR, OFFSET AND PROVIDE 1-1/2" BFP-1 AND PRV-1 IN HORIZONTAL.
19. 4" THICK CAST- IN-PLACE CONTAINMENT CURB, 4" DEEP.
20. 3/4" COLD WATER RISE WITH ISOLATION VALVE, OFFSET HIGH NEAR ROOF STRUCTURE TO DF-1 CONNECTIONS.
21. 3/4" HOT WATER DROP ALONG WALL AND OFFSET TO LAVATORY CONNECTIONS.
22. 3/4" HOT WATER CIRCULATION, RISE AND OFFSET HIGH BACK TO CIRCULATION PUMP AT WATER HEATER.



A1 HEADQUARTERS & RESTROOM BUILDING - PLUMBING FLOOR PLAN

P-111A 1/8" = 1'-0"



A3 HEADQUARTERS & RESTROOM BUILDING - PLUMBING UNDERGROUND PLAN

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Key Map

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HEADQUARTERS & RESTROOM - PLUMBING PLANS

P-111A

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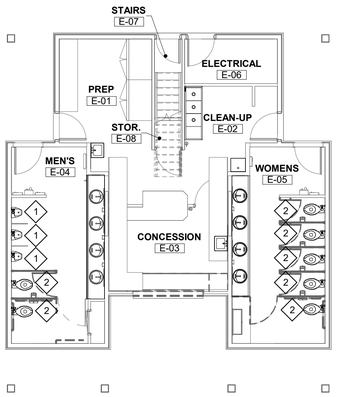
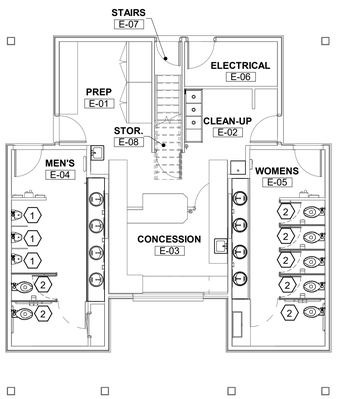


B1 EXISTING CONCESSIONS BUILDING - PLUMBING DEMOLITION FLOOR PLAN

P-111B 1/8" = 1'-0"



A1 EXISTING CONCESSIONS BUILDING - PLUMBING FLOOR PLAN

P-111B 1/8" = 1'-0"

GENERAL SHEET NOTES

1. PRIOR TO COMMENCING DEMOLITION, FIELD VERIFY EXISTING LAVATORY DIMENSIONS, INCLUDING CUT-OUTS. AGREE WITH NEW LAVATORY REQUIREMENTS. NOTIFY ARCHITECT IF DIMENSIONS DIFFER AND WILL NOT ALLOW FOR LAVATORY REPLACEMENT IN EXISTING COUNTERTOP.
2. PRIOR TO COMMENCING DEMOLITION, FIELD VERIFY COLD WATER ROUGH-IN DIMENSIONS TO EXISTING WATER CLOSET SPUD WILL ALLOW FOR THE SPECIFIED FLUSH VALVE INSTALLATION, NOTIFY ARCHITECT IF AVAILABLE DIMENSIONS WILL NOT ALLOW FOR THE SPECIFIED FLUSH VALVE TO BE INSTALLED.
3. PRIOR TO ORDERING FLUSH VALVES, CONFIRM FLUSH VOLUMES OF EXISTING URINALS AND WATER CLOSETS AND ORDER FLUSH VALVES TO MATCH GALLON PER FLUSH RATING ACCORDINGLY.
4. HOLD ALL BELOW DECK FAUCET COMPONENTRY AS HIGH AS POSSIBLE BELOW THE FAUCET CONNECTIONS TO MINIMIZE POTENTIAL VANDALISM.

DEMOLITION NOTES

1. REMOVE EXPOSED URINAL FLUSHOMETER VALVE, EXISTING COLD WATER ROUGH-IN TO REMAIN.
2. REMOVE EXPOSED WATER CLOSET FLUSHOMETER VALVE, EXISTING COLD WATER ROUGH-IN TO REMAIN.

DRAWING NOTES

1. PROVIDE NEW URINAL FLUSHOMETER VALVE, ZURN ZER6003AV-CPM SENSOR OPERATED, BATTERY POWERED WITH FRONT MOUNTED MANUAL OVERRIDE BUTTON AND SOLID RING TAILPIECE PIPE SUPPORT, CONNECT TO EXISTING URINAL TOP SPUD AND COLD WATER ROUGH-IN AT WALL.
2. PROVIDE NEW WATER CLOSET FLUSHOMETER VALVE, ZURN ZER6000AV-CPM SENSOR OPERATED, BATTERY POWERED WITH FRONT MOUNTED MANUAL OVERRIDE BUTTON AND SOLID RING TAILPIECE PIPE SUPPORT, CONNECT TO EXISTING WATER CLOSET TOP SPUD AND COLD WATER ROUGH-IN AT WALL.

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EXISTING CONCESSIONS BUILDING - PLUMBING PLANS

P-111B

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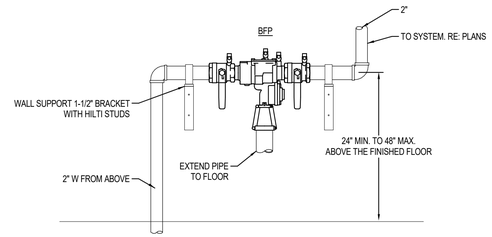

5 BACKFLOW PREVENTER DETAIL
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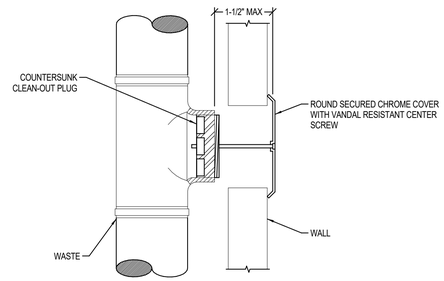

1 WALL CLEANOUT DETAIL
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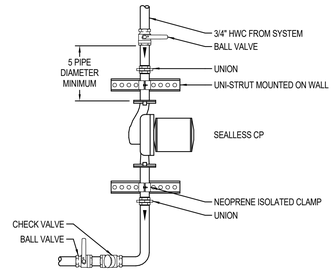

6 CIRCULATION PUMP DETAIL
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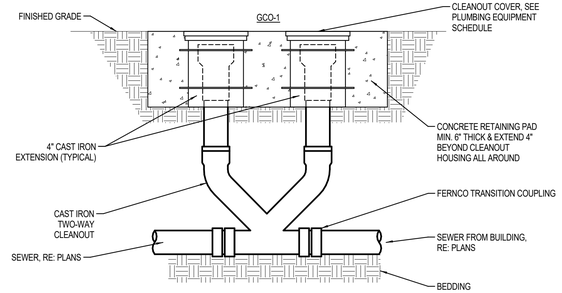

2 2-WAY GRADE CLEANOUT
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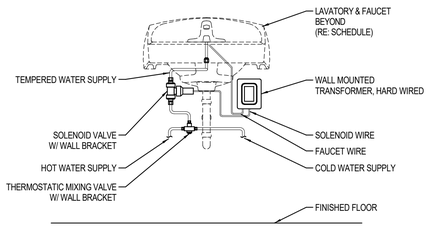

7 LAVATORY MIXING VALVE DETAIL
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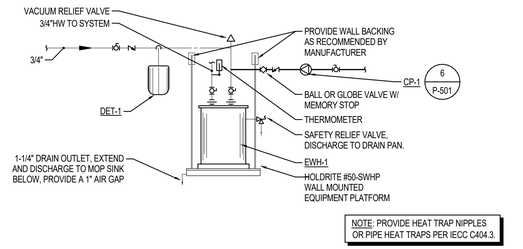

NOTE: PROVIDE HEAT TRAP NIPPLES OR PIPE HEAT TRAPS PER IECC C404.3.

3 ELECTRIC WATER HEATER PIPING DIAGRAM
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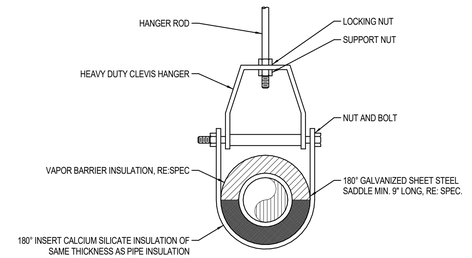

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PLUMBING DETAILS

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SITE PLAN GENERAL NOTES

ALL WIRING SHALL BE IN COMPLIANCE WITH THE NEC LATEST EDITION. ALL MULTI-WIRE BRANCH CIRCUITS (120V OR 277V SINGLE PHASE CIRCUITS) IDENTIFIED IN THE PANEL SCHEDULES ORIGINATING FROM SINGLE POLE BREAKER SHALL BE INSTALLED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR. THE NEUTRAL CONDUCTOR SHALL HAVE A TRACER STRIPE (THE STRIPE COLOR SHALL MATCH THE COLOR OF THE PHASE CONDUCTOR).

REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INSTALLATION, CONDUIT DEPTHS, AND SPECIFICATION REQUIREMENTS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE TO THE MOST CURRENT LOCAL CODES AND THE NEC LATEST EDITION.

ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC WITH PVC COATED GRC ELBOWS AND RISERS TO 4 FEET ABOVE GRADE AND 1 INCH MINIMUM DIAMETER, UNLESS NOTED OTHERWISE.

ALL UNDERGROUND COMMUNICATION, ELECTRICAL FEEDER, AND BRANCH CIRCUITS SHALL BE INSTALLED A MINIMUM OF 30 INCHES BELOW GRADE WITH BURIED ELECTRICAL WARNING TAPE INSTALLED DIRECTLY ABOVE BETWEEN 6 AND 12 INCHES BELOW GRADE. CONTRACTOR SHALL PROVIDE PULL BOXES AS REQUIRED TO MINIMIZE THE NUMBER OF BENDS TO MEET CODE.

ALL ELECTRICAL DEVICE LOCATIONS SHALL BE COORDINATED WITH THE LANDSCAPE AND CIVIL DRAWINGS/ARCHITECT PRIOR TO ROUGH-IN TO DETERMINE TYPICAL INSTALLATION REQUIREMENTS/LOCATIONS IN RELATION TO THE SITE LANDSCAPE AND CIVIL ELEMENTS. REFER TO LANDSCAPE PLANS FOR EXACT LOCATIONS OF POLES, BOLLARDS, AND/OR INGRADE LUMINAIRES. LOCATIONS ARE COORDINATED WITH SIDEWALKS AND CONCRETE PAVING.

UNDERGROUND CONDUIT IS INDICATED BY DASHED LINES, UBE, USE, UPE, OR UC. ROUTE ALL CONDUIT/CIRCUITING ON FINISHED SPACES CONCEALED IN WALLS, ABOVE CEILINGS, OR BELOW FLOORS. ALL CONDUIT/CIRCUITING SHALL BE RUN PARALLEL TO BUILDING WALLS. ANY SURFACE MOUNTED CONDUIT IN FINISHED SPACES OR MOUNTED ON FINISHED SURFACES SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH IT IS MOUNTED.

ALL NEW CIRCUITS SHALL HAVE GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.

FOR ALL WEATHERPROOF RECEPTACLE COVERS PROVIDE CAST ALUMINUM, WHILE-IN-USE WEATHERPROOF TYPE COVERS, HUBBELL-MG58XX SERIES OR EQUAL.

ALL EXTERIOR RECEPTACLES SHALL BE GFI PROTECTED DEVICES AND HAVE WEATHERPROOF COVERS.

SECURITY SYSTEM REQUIREMENTS

BUILDING SECURE ACCESS DOOR HARDWARE, MATERIALS, AND INSTALLATION SHALL BE COORDINATED WITH DOOR HARDWARE VENDOR AND THE GENERAL CONTRACTOR
BUILDING SECURE ACCESS SYSTEM EQUIPMENT, MATERIALS, WIRING, TERMINATIONS, PROGRAMMING, COMMISIONING, AND TRAINING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

THE BUILDING SECURE ACCESS SYSTEM SHALL INCLUDE THE FOLLOWING:
SECUITRON MAGNALOCK SERIES M32 DOOR LOCKS
COMELIT PAC ACCESS 2-DOOR CONTROLLERS
SECURITRON PB SERIES EXIT LOCK RELEASE PUSH BUTTONS
MOTION SENSORS TO RELEASE DOORS IN THE FAMILY RESTROOMS ONLY
INPUT / OUTPUT CONTROLLERS / RELAYS
SECURITRON BPS SERIES POWER SUPPLY UNITS WITH BATTERY BACKUP
INPUT/OUTPUT READER MODULES, NEMA 1 EQUIPMENT ENCLOSURES.
HID RP40 ICLASS SE CARD READERS

RESTROOM DOORS SHALL BE CONTROLLED VIA PROGRAMMABLE TIME OF DAY LOCK/UNLOCK SECURITRON DT-7 DIGITAL TIMER. THE UTILITY, STORAGE, I.T., ELECTRICAL, (AND OFFICE) ROOM DOORS SHALL BE CONTROLLED VIA ADJACENT CARD READER/KEYPAD. INTERIOR MOTION SENSORS AND EXIT BUTTONS SHALL UNLOCK ASSOCIATED ROOM DOORS WHERE INDICATED ON PLAN.

PROVIDE SYSTEM SHOP DRAWINGS INCLUDING: BILL OF MATERIALS, PRODUCT DATA CUT SHEETS, SYSTEM LAYOUT DRAWINGS, AND WIRING DIAGRAMS

LIGHTING CONTROL NOTES

LIGHTING CONTROL SYSTEM SHALL BE IN COMPLIANCE WITH THE FOLLOWING: INTERNATIONAL ENERGY CONSERVATION CODE (IECC) NOTED BELOW.

FOR THE FOLLOWING DEVICES, REFER TO THE MANUFACTURER'S WIRING DIAGRAMS, INSTALLATION INSTRUCTIONS, AND REVIEWED/APPROVED SUBMITTAL SHOP DRAWINGS. PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS FOR A COMPLETE AND OPERATIONAL LIGHTING CONTROL SYSTEM.

PROVIDE SPECIFICATION GRADE DEVICES BY ACUITY LIGHTING CONTROLS, COOPER (EATON), HUBBELL, LEVITON, OR WATTSTOPPER.

LOWER CASE LETTERS DENOTE SWITCHING/CONTROL ZONES.

ALL LIGHTING CONTROL CABLE/WIRE SHALL BE STANDARD COLOR AND AS RECOMMENDED BY SYSTEMS MANUFACTURER, ROUTED PARALLEL/PERPENDICULAR TO BUILDING WALLS AND LINES, AND SUPPORTED INDEPENDENTLY FROM OTHER SYSTEMS.

ELECTRICAL CONTRACTOR OR LIGHTING CONTROLS COMMISSIONING AGENT SHALL PROVIDE ALL PROGRAMMING AND COMMISSIONING OF THE LIGHTING CONTROL SYSTEM. PROGRAMMING AND CALIBRATION OF SYSTEM SHALL BE READILY ACCESSIBLE.

PROGRAM OCCUPANCY SENSORS FOR MANUAL ON / AUTO OFF (VACANCY MODE), UNLESS INSTALLED IN A RESTROOM WHERE AUTO ON/OFF IS ACCEPTABLE, UNLESS NOTED OTHERWISE. PROGRAM TIME OUT AS FOLLOWS, UNLESS NOTED OTHERWISE:

STORAGE, CUSTODIAL ROOMS, ETC.:	5 MINUTES
OFFICES AND ASSOC. SPACES:	15 MINUTES
TOILET ROOMS:	20 MINUTES

S_{OS} PROVIDE WALL MOUNTED SWITCH PIR OCCUPANCY SENSOR WITH SINGLE ZONE CONTROL. SENSOR SHALL BE CONFIGURED FOR MANUAL ON / AUTO OFF. CONFIGURE FOR 3-WAY SWITCHING WHERE REQUIRED ON DRAWINGS.

S_{OD} PROVIDE WALL MOUNTED SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR WITH 0-10V DIMMING. SENSOR SHALL BE CONFIGURED FOR MANUAL ON / AUTO OFF. PROGRAM TO TURN ON LIGHTS TO LAST PROGRAMMED LIGHTING LEVEL OR ALLOW TO AUTOMATICALLY COME ON TO LESS THAN 49% FULL LIGHT OUTPUT.

(OS)1 PROVIDE DUAL TECHNOLOGY LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR, WITH 2,000 SQ FT COVERAGE. LOCATE ON CEILING IN CENTER OF ROOM (AWAY FROM THE DOOR) AND AIM INTO ROOM. CONNECT TO ROOM CONTROLLER.

(OS)2 PROVIDE DUAL TECHNOLOGY CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR WITH 2,000 SQ. FT. COVERAGE. LOCATE CENTERED WITHIN SPACE AND WHERE IT WILL DETECT MOTION FROM DOORWAY.

(P)1 PROVIDE CEILING MOUNTED PHOTOCELL FOR INTERIOR DAYLIGHT HARVESTING. PHOTOCELL SHALL PROVIDE DIMMING CAPABILITIES OF THE LIGHTING ZONE INDICATED AS WELL AS COMPLETE SHUT-OFF OF THE LIGHTS. PHOTOCELL SHALL MEASURE THE DAYLIGHT CONTRIBUTION FROM SIDE WINDOWS. CONNECT TO ROOM CONTROLLER OR POWER PACK.

RC #D #S PROVIDE ROOM CONTROLLER, ON/OFF/0-10V DIMMING, TO CONTROL UP TO THE NUMBER OF RELAYS INDICATED. # REFERS TO THE NUMBER OR RELAYS/ZONES CONTROLLED. #D OR #S INDICATES NUMBER OF DIMMED OR SWITCHED ZONES, RESPECTIVELY. LOCATE ROOM CONTROLLER ABOVE ACCESSIBLE CEILING, UP WITHIN THE JOIST/TRUSS CEILING CAVITY ABOVE WALL STATION(S), OR WITHIN UTILITY ROOM. WHERE LOCATED ABOVE CEILING, PROVIDE TYPED LABEL ON CEILING TEE GRID "LIGHTING CONTROLLER ABOVE". CONNECT ROOM CONTROLLER VIA MANUFACTURER'S RECOMMENDED CABLING TO OTHER LIGHTING CONTROL DEVICES IN ROOM. ROOM CONTROLLER SHALL BE RETURN AIR PLENUM RATED.

RC-P # PROVIDE ROOM CONTROLLER (POWER PACK) FOR RECEPTACLE CONTROL. # INDICATES THE NUMBER OF CIRCUITS CONTROLLED. LOCATE ABOVE ACCESSIBLE CEILING, INTERFACE WITH LIGHTING OCCUPANCY SENSOR(S). PROVIDE TYPED LABEL ON CEILING TEE GRID "CONTROLLED RECEPTACLE CONTROLLER ABOVE". CONNECT DEVICE VIA MANUFACTURER'S RECOMMENDED CABLING.

S_{LV} PROVIDE LOW VOLTAGE SWITCH WALL STATION PER MANUFACTURER'S SYSTEM. REFER TO LIGHTING CONTROL FLAG NOTES FOR MORE INFORMATION.

LIGHTING CONTROL NOTES

1. PROVIDE LOW VOLTAGE SWITCH FOR ON/OFF CONTROL OF LIGHTS
2. PROVIDE LOW VOLTAGE SWITCH FOR ON/OFF/RAISE/LOWER CONTROL OF LIGHTS.

ELECTRICAL GENERAL NOTES

REFER TO THE ARCHITECTURAL PLANS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

THE ELECTRICAL INSTALLATION SHALL BE IN COMPLIANCE WITH THE FOLLOWING: NATIONAL ELECTRICAL CODE (NEC) LOCAL ENFORCED EDITION.

CIRCUITING ROUTING SHOWN IS DIAGRAMMATIC. CIRCUIT DESIGNATIONS ARE INDICATED AND SHALL BE STRICTLY FOLLOWED. ALL CIRCUITING SHALL BE COPPER CONDUCTORS IN CONDUIT (3/4" MINIMUM). LUMINAIRES MAY BE CONNECTED VIA MANUFACTURER PROVIDED FLEXIBLE CONDUIT/CONDUCTOR WHIPS. CONTRACTOR SHALL PROVIDE ALL WIRE, CONDUIT, JUNCTION/PULL BOXES, AND SUPPORTS ETC. FOR A COMPLETE ELECTRICAL SYSTEM.

ALL NEW (120V OR 277V SINGLE PHASE) BRANCH CIRCUIT WIRING SHALL ORIGINATE AT SINGLE POLE BREAKERS AND SHALL BE INSTALLED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR. THE NEUTRAL CONDUCTOR SHALL HAVE A TRACER STRIPE (THE STRIPE COLOR SHALL MATCH THE COLOR OF THE PHASE CONDUCTOR).

ALL DISTRIBUTION AND BRANCH CIRCUIT FEEDERS SHALL BE PROVIDED WITH AN INSULATED, GREEN GROUND WIRE.

ROUTE ALL CONDUIT/CIRCUITING IN FINISHED SPACES CONCEALED IN WALLS, ABOVE CEILINGS, OR BELOW FLOORS. ALL CONDUIT/CIRCUITING SHALL BE RUN PARALLEL TO BUILDING WALLS AND LINES. ANY SURFACE MOUNTED CONDUIT MOUNTED TO FINISHED SURFACES OR LOCATED IN FINISHED SPACES SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH IT IS MOUNTED.

SURFACE MOUNTED CONDUIT IN FINISHED SPACES AND/OR SPACES NORMALLY OCCUPIED SHALL MOUNTED TIGHT AGAINST THE WALL WITH SINGLE OR DOUBLE HOLE STRAPS.

MOUNTING HEIGHTS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.

POWER RECEPTACLES	+18"
TELEPHONE AND DATA OUTLETS	+18"
SWITCHES	+44"

ALL DIMENSIONS ARE TO THE CENTER OF THE DEVICE.

NEW TELEPHONE, DATA, AND TELE/DATA COMBINATION OUTLETS SHALL CONSIST OF A 4" SQUARE BACK BOX, SINGLE GANG PLASTER RING, AND 1" CONDUIT TO ABOVE THE CEILING. PROVIDE A RUBBER CABLE PROTECTION BUSHING ON THE END OF THE CONDUIT STUBBED OUT ABOVE THE CEILING. THE NUMBER ADJACENT TO THE OUTLET SYMBOL ON THE DRAWINGS INDICATES THE QUANTITY OF OUTLET DEVICE JACKS AND ASSOCIATED CABLES TO BE INSTALLED AT THAT LOCATION.

COORDINATE EXACT POWER AND INSTALLATION REQUIREMENTS OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR AND THE MANUFACTURER'S INSTALLATION LITERATURE.

ALL CEILING MOUNTED AND SUSPENDED LUMINAIRES SHALL HAVE A MINIMUM OF TWO SUPPORTS CONNECTED DIRECTLY TO STRUCTURAL COMPONENTS OF THE BUILDING.

CONNECT ALL EXIT SIGNS AND EMERGENCY LUMINAIRES TO UNSWITCHED CONDUCTOR OF THE INDICATED CIRCUIT.

INSULATION COLOR: ALL INSULATED CONDUCTORS (SERVICE ENTRANCE, FEEDER, AND BRANCH CIRCUIT) SHALL HAVE FULL COLORED INSULATION, COLORS AS SPECIFIED IN SECTION 26 05 53 IDENTIFICATION FOR ELECTRICAL SYSTEMS, FOR THE ENTIRE LENGTH OF THE CONDUCTOR. NEUTRAL CONDUCTORS INSTALLED, IN COMPLIANCE WITH THE NEC-LATEST EDITION FOR EACH SINGLE POLE BREAKER, SHALL HAVE A TRACER STRIPE TO MATCH THE CORRESPONDING PHASE CONDUCTOR COLOR.

USE OF MC CABLE IS PROHIBITED EXCEPT FOR LUMINAIRE CONNECTION WHIPS (MAXIMUM OF 6FT ROUTED FROM A HOMERUN CONDUIT J-BOX TO AN INDIVIDUAL LUMINAIRE).

USE OF AC, NM, ENT, OR OTHER MANUFACTURED PRE-WIRED SYSTEMS CABLE IS PROHIBITED.

FOR STEEL CONDUIT LARGER THAN 1/2-INCH SIZE, PROVIDE STEEL INSULATED TYPE BUSHINGS, DESIGNED TO PREVENT ABRASION OF WIRES WITHOUT IMPAIRING THE CONTINUITY OF THE CONDUIT GROUNDING SYSTEM. GROUNDING BUSHINGS SHALL BE LOCKING TYPE AND SHALL BE PROVIDED WITH A FEED-THROUGH COMPRESSION LUG FOR SECURING THE GROUND CABLES. PROVIDE LISTED WATERPROOF FITTINGS FOR ALL CONDUIT IN WET LOCATIONS, SUCH AS EXPOSED TO WEATHER.

GROUNDING BUSHINGS SHALL BE STEEL AND INSTALLED AT BOTH ENDS OF THE CONDUIT ON ALL FEEDERS, AS WELL AS ALL TRANSFORMER, MOTOR, MOTOR CONTROLLER, KITCHEN, AND TVSS EQUIPMENT BRANCH CIRCUITS.

LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE PROVIDED IN SUFFICIENT LENGTHS FOR MAKEUP OF MOTORS, TRANSFORMERS, OR EQUIPMENT, AND/OR RACEWAY CONNECTIONS WHERE ISOLATION OF SOUND AND VIBRATION TRANSMISSION IS REQUIRED.

BOXES SHALL BE PRESSED STEEL, GALVANIZED OR CADMIUM-PLATED (4-INCH X 2 1/8" DEEP MINIMUM SQUARE FOR ALL WALL LOCATIONS, 4 11/16-INCH X 2 1/8" DEEP MINIMUM SQUARE FOR ALL ABOVE CEILING LOCATIONS). SURFACE-MOUNTED DEVICE BOXES MOUNTED BELOW 8 FEET AFF SHALL BE (BELL) CAST-TYPE BOXES WITH THREADED KNOCK-OUTS (PROVIDE WITH KNOCK-OUTS ONLY AS REQUIRED BY CONDUIT ENTERING/LEAVING).

DEVICE COVERPLATES. PROVIDE IDENTIFICATION OF CIRCUITS AT ALL INDIVIDUAL WALL SWITCHES, RECEPTACLES, AND CONTROL DEVICE STATIONS. IDENTIFY CIRCUITS WITH PREPRINTED LABEL ON THE FRONT SIDE OF THE COVERPLATE AS WELL AS IDENTIFY CIRCUITS WITH PERMANENT INK MARKER ON THE BACKSIDE OF THE COVERPLATE.

EQUIPMENT IDENTIFICATION LABELS: ENGRAVED PLASTIC LAMINATE. INSTALL ON EACH UNIT OF EQUIPMENT, INCLUDING CENTRAL OR MASTER UNIT OF EACH SYSTEM. APPLY LABELS FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF EQUIPMENT USING MECHANICAL FASTENERS:

1. DISTRIBUTION AND CONTROL EQUIPMENT
   - A. IDENTIFY EQUIPMENT AS WELL AS LOADS SERVED
   - B. 1/4 INCH LETTERING FOR EQUIPMENT DESIGNATION
   - C. 1/8 INCH LETTERING TO IDENTIFY VOLTAGE & FAULT CURRENT RATING
   - D. 1/8 INCH LETTERING TO IDENTIFY FUSE RATING/TYPE
   - E. 1/8 INCH LETTERING TO IDENTIFY FEEDER (CONDUIT & WIRE SIZE)
   - F. 1/8 INCH LETTERING TO IDENTIFY FEEDER SOURCE
2. INDIVIDUAL CIRCUIT BREAKERS AND SWITCHES IN PANELBOARDS AND SWITCHBOARDS:
   - A. 1/8 INCH LETTERING TO IDENTIFY CIRCUIT AND LOAD SERVED, INCLUDING LOCATION.
   - B. 1/8 INCH LETTERING TO IDENTIFY FEEDER INFORMATION
3. PANELBOARDS, SWITCHBOARDS, ELECTRICAL CABINETS, INDIVIDUAL CIRCUIT BREAKERS, DISCONNECT SWITCHES, AND MOTOR STARTERS:
   - A. 1/4 INCH LETTERING FOR EQUIPMENT DESIGNATION
   - B. 1/8 INCH LETTERING TO IDENTIFY VOLTAGE & FAULT CURRENT RATING
   - C. 1/8 INCH LETTERING TO IDENTIFY FEEDER (CONDUIT & WIRE SIZE)
   - D. 1/8 INCH LETTERING TO IDENTIFY FEEDER SOURCE
4. TRANSFORMERS:
   - A. 1/4 INCH LETTERING TO IDENTIFY EQUIPMENT DESIGNATION.
   - B. 1/8 INCH LETTERING TO IDENTIFY PRIMARY AND SECONDARY VOLTAGES, PRIMARY SOURCE, AND SECONDARY LOAD AND LOCATION.
   - C. 1/8 INCH LETTERING TO IDENTIFY LOAD SERVED
   - D. 1/8 INCH LETTERING TO IDENTIFY FEEDER (CONDUIT & WIRE SIZE)
   - E. 1/8 INCH LETTERING TO IDENTIFY FEEDER SOURCE
5. DEVICES ABOVE CEILINGS (ATTACH LABEL TO T-GRID / ACCESS PANEL):
   - A. 1/4 INCH LETTERING TO IDENTIFY EQUIPMENT DESIGNATION.
   - B. MECHANICALLY FASTENED TO CEILING BELOW DEVICE.

POWER, LIGHTING, AND TELECOM

- J-BOX
- M MOTOR
- CEILING RECEPTACLE
- FLOOR RECEPTACLE
- DUPLEX RECEPTACLE
- FOUR-PLEX RECEPTACLE
- SPLIT DUPLEX RECEPTACLE WITH ONE-HALF CONTROLLED LOAD
- 4-PLEX WITH ONE NON-CONTROLLED LOAD DUPLEX AND ONE CONTROLLED LOAD DUPLEX
- G BLANK FACE GFI DEVICE
- GFI 4-PLEX WITH ONE GFI DUPLEX AND ONE GFI PROTECTED STANDARD DUPLEX
- GFI 4-PLEX WITH ONE NON-CONTROLLED LOAD GFI DUPLEX AND ONE CONTROLLED LOAD GFI DUPLEX
- SPECIAL NEMA RECEPTACLE
- HEAVY DUTY DISCONNECT SWITCH
- MOTOR STARTER / CONTACTOR
- HEAVY DUTY STARTER-DISCONNECT
- VFD VFD MOTOR STARTER
- VFD VFD HEAVY DUTY STARTER-DISCONNECT
- T TRANSFORMER
- SPD SURGE SUPPRESSION DEVICE
- M METER
- S THERMAL OVERLOAD SW
- BRANCH CIRCUIT PANEL
- TELEPHONE OUTLET
- TELE-DATA OUTLET
- # DATA OUTLET - # INDICATES NUMBER OF DATA DROPS
- TELEPHONE OUTLET FLOOR
- TELE-DATA OUTLET FLOOR
- TV OUTLET
- EMERGENCY BATTERY LIGHT
- WALL MOUNTED EXIT SIGN
- CEILING MOUNT EXIT SIGN
- CLG MNT EX/EM LT COMBO
- SURFACE WALL LUMINAIRE
- SURFACE CEILING LUMINAIRE
- K KEYLESS LAMP HOLDER
- RECESSED DOWNLIGHT
- RECESSED WALL WASHER
- LUMINAIRE STRIP
- SURFACE OR WALL LUMINAIRE
- RECESSED LUMINAIRE
- RECESSED LUMINAIRE 1x4
- TRACK LIGHTING
- PARKING LOT POLE LIGHT
- PEDESTRIAN POLE LUMINAIRE
- FLOOD LUMINAIRE
- S SWITCH
- S_3 3-WAY SWITCH
- S_{OS} OCCUPANCY SENSOR SWITCH
- S_{OD} OCC. SENSOR DIMMER SWITCH
- S_{LV} LOW VOLTAGE SWITCH
- D DIMMER SWITCH
- (P) PHOTOCELL
- OS DS OCCUPANCY SENSOR
- PP OCC. SEN. POWER PACK
- RC ROOM CONTROLLER
- RCN NETWORK ROOM CONTROLLER
- RC-P ROOM CONTROLLER FOR CONTROLLED PLUG LOADS
- TC TIME CLOCK
- C CLOCK-WALL MOUNT
- C S CLOCK/SPEAKER IN COMBINATION BACK-BOX
- S SPEAKER-WALL MOUNT
- S SPEAKER HORN-WALL MOUNT
- S SPEAKER-RECESSED CEILING (HARD CEILING)
- S SPEAKER-RECESSED CEILING (LAYIN GRID CEILING)
- S SPEAKER-SURFACE OR PENDANT MOUNT CEILING
- C CALL STATION
- PUSH BUTTON STATION

GENERAL

- SECTION BUBBLE
  - SECTION LETTER
  - # REFERENCE DWG NUMBER
- REFERENCE BUBBLE
  - SECTION NUMBER
  - # REFERENCE NUMBER
- # REVISION NUMBER
- # EQUIPMENT TAG
- # DRAWING NOTE
- # FLAG NOTE
- BREAKLINE
- MATCHLINE
- WM WIREMOLD
- OPE OVERHEAD PRIMARY ELECTRIC
- OSE OVERHEAD SECONDARY ELECTRIC
- UPE UNDERGROUND PRIMARY ELECTRIC
- USE UNDERGROUND SECONDARY ELECTRIC
- UBE UNDERGROUND BRANCH ELECTRIC
- OBE OVERHEAD BRANCH ELECTRIC
- UC UNDERGROUND COMMUNICATION
- SEC UNDERGROUND SECURITY
- N BOLD LINEWEIGHT AND/OR "N" INDICATES NEW DEVICE OR EQUIPMENT
- R BOLD LINEWEIGHT AND/OR "R" INDICATES DEVICE OR EQUIPMENT TO BE REPLACED
- E LIGHT LINEWEIGHT AND/OR "E" INDICATES EXISTING DEVICE TO REMAIN
- D DASHED LINETYPE AND/OR "D" INDICATES DEVICE TO BE REMOVED / DEMOLISHED

ELECTRONIC SAFETY AND SECURITY

- MAGNETIC DOOR HOLD
- S_S SMOKE DETECTOR
- S_T THERMAL DETECTOR
- S_V VAPE DETECTOR
- D DUCT SMOKE DETECTOR
- F MANUAL PULL STATION
- SP CO COMBO SPEAKER/STROBE
- CEILING ALARM STROBE LIGHT
- WALL ALARM STROBE LIGHT
- S H ALARM SPEAKER OR HORN
- R REMOTE INDICATOR LIGHT
- FS FLOW SWITCH
- TS TAMPER SWITCH
- CM CONTROL MODULE
- MM MONITOR MODULE
- BD T BEAM DETECTION TRANSMITTER
- BD R BEAM DETECTION RECEIVER
- D_{CO} CARBON MONOXIDE DETECTOR
- S S REMOTE TEST SWITCH
- A APHONE MONITOR STATION
- APHONE INTERCOM STATION
- DH ELECTRIC DOOR HARDWARE
- GB GLASS BREAK DETECTOR
- C CAMERA
- C 90 DEGREE CAMERA
- C 180 DEGREE CAMERA
- C 270 DEGREE CAMERA
- C 360 DEGREE CAMERA
- MS MOTION SENSOR
- CR CARD READER
- ML MAGNETIC LOCK
- DS DOOR SWITCH
- KP SECURITY CONTROL KEYPAD
- EB EXIT BUTTON
- ES ELECTRIC STRIKE
- REX REQUEST TO EXIT
- DC DOOR CONTROLLER

DEFINITIONS

AC	INDICATES ABOVE COUNTER, COORDINATE EXACT HEIGHT
BC	INDICATES BELOW COUNTER, COORDINATE EXACT HEIGHT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
GFI	INDICATES GROUND FAULT CIRCUIT INTERRUPT DEVICE
D	INDICATES EXISTING DEVICE TO BE REMOVED
E	INDICATES EXISTING DEVICE TO REMAIN AS IS
ELEC	ELECTRICAL / ELECTRONIC
EC GC SSC TC	ELECTRICAL CONTRACTOR GENERAL CONTRACTOR ELEC SECURITY CONTRACTOR TELECOM CABLING CONTRACTOR
R	INDICATES EXISTING DEVICE TO BE REPLACED
RL	INDICATES EXISTING DEVICE TO BE RELOCATED TO POSITION SHOWN
SPD	INDICATES SURGE SUPRESSION DEVICE
USB	INDICATES UNIVERSAL SERIAL BUS DEVICE
VFD	INDICATES VARIABLE FREQUENCY MOTOR DRIVE
WP	INDICATES WEATHERPROOF EQUIPMENT/DEVICE
EMT	ELECTRICAL METALLIC CONDUIT
FMC	FLEXIBLE METALLIC CONDUIT
LFC	LIQUIDTIGHT FLEXIBLE CONDUIT
PVC	POLYVINYL CHLORIDE CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RSC	RIGID STEEL CONDUIT
CT	CURRENT TRANSFORMER
HVAC	HEATING, VENTILATION AIR CONDITIONING
LED	LIGHT EMITTING DIODE
AIC	AMPS INTERRUPTING CAPACITY
Isc	SHORT CIRCUIT CURRENT
FLA	FULL LOAD AMPS
MCA	MINIMUM CIRCUIT AMPS
MCCB	MOLDED-CASE CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MOCP	MAXIMUM OVERCURRENT PROTECTION
OCPD	OVERCURRENT PROTECTIVE DEVICE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NL	NIGHT LIGHT
NEC	NATIONAL ELECTRICAL CODE NFPA 70
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
UL	UNDERWRITERS LABORATORY
ACS	ACCESS CONTROL SYSTEM
SDS	SECURITY DETECTION SYSTEM
VSS	VIDEO SURVEILLANCE SYSTEM
ANN	FIRE ALARM ANNUNCIATOR PANEL
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
EOL	END-OF-LINE
FACP	FIRE ALARM CONTROL PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT
SLC	SIGNALING LOOP CIRCUIT
AV	AUDIOVISUAL
MDF	MAIN DISTRIBUTION FACILITY
IDF	INTERMEDIATE DISTRIBUTION FACILITY
LAN	LOCAL AREA NETWORK
WAN	WIDE AREA NETWORK
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
UPS	UNINTERRUPTIBLE POWER SUPPLY
DLZ#	DAYLIGHT ZONE AREA

CODE REFERENCES

DFPC ADOPTED CODES:

2021	INTERNATIONAL BUILDING CODE (IBC)
2021	INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2021	INTERNATIONAL FIRE CODE (IFC)
2021	INTERNATIONAL MECHANICAL CODE (IMC)
2021	INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2021	NFPA 170
2017	INTERNATIONAL CODE COUNCIL (ICC) A117.1 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

DORA ADOPTED CODES:

2021	COLORADO PLUMBING CODE (CPC)
2021	COLORADO FUEL GAS CODE (CFGC)
2023	NATIONAL ELECTRICAL CODE (NEC)

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Denver, CO 80202
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1675 Larimer Street, #550
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ELECTRICAL ENGINEER
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p. 303.278.7297

IRRIGATION
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MECHANICAL ENGINEER
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Town of Parker
SALISBURY REGIONAL PARK - PHASE 1
11700 MOTSENBOCKER RD
PARKER, CO 80134

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 223072.00
Sheet Issue Date: 2025-05-02
Drawn By: AEI
Checked By: AEI

Key Map

Drawing
ELECTRICAL LEGEND AND NOTES

E-000

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THE LINE SHOWN ABOVE IS EXACTLY 1 INCH ON ARCH D SHEETS ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR WHITE/BLACK AND YELLOW, CYAN, MAGENTA (CMYK) LETTERS, IF PHOTOCOPIED

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Parker Salisbury Park Phase 1
Project Type: New Construction

Construction Site:
1700 Motsenbocker Rd
Parker, Colorado 80134

Owner/Agent:
Hord Coplan Macht
1800 Wazee Street, Suite 450
Denver, Colorado 80202
303-607-0977

Designer/Contractor:
Ackerman Engineering, Inc.
3000 Youngfield St, Suite 264
Wheat Ridge, Colorado 80215
303-278-7297
hreschl@aeiconsulting.com

Additional Efficiency Package(s)

Credits: 10.0 Required 28.0 Proposed
Reduced lighting power, 28.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-HQ Bldg (Exercise Center)	1733	0.72	1248
		Total Allowed Watts =	1248

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-HQ Bldg (Exercise Center)				
LED: A: LED Flat Panel: LED Other Fixture Unit 28W:	1	4	30	120
LED: B: LED Wall Luminaire: LED Other Fixture Unit 36W:	1	7	35	245
LED: C: LED Enclosed/Gasketed: LED Other Fixture Unit 36W:	1	12	35	420
LED: D: LED Downlight: LED Other Fixture Unit 16W:	1	2	15	30
		Total Proposed Watts =		815

Interior Lighting PASSES: Design 35% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Helen Reschl — Name - Title
Helen Reschl — Signature
05.02.2025 — Date

COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Parker Salisbury Park Phase 1
Project Type: New Construction
Exterior Lighting Zone: 3 (Other (LZ3))

Construction Site:
1700 Motsenbocker Rd
Parker, Colorado 80134

Owner/Agent:
Hord Coplan Macht
1800 Wazee Street, Suite 450
Denver, Colorado 80202
303-607-0977

Designer/Contractor:
Ackerman Engineering, Inc.
3000 Youngfield St, Suite 264
Wheat Ridge, Colorado 80215
303-278-7297
hreschl@aeiconsulting.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed W (B X C)
SW Parking (Parking area)	59695 ft2	0.06	Yes	3582
NE Parking Lot (Parking area)	68202 ft2	0.06	Yes	4092
SE Drive (Driveway)	41136 ft2	0.06	Yes	2468
BB Field Plaza (Plaza area)	55306 ft2	0.11	Yes	6084
Park Sidewalks (Walkway >= 10 feet wide)	72063 ft2	0.11	Yes	7927
NW Entry Drive (Driveway)	11945 ft2	0.06	Yes	717
NW Parking (Parking area)	10519 ft2	0.06	Yes	631
West Drive (Driveway)	16572 ft2	0.06	Yes	994
		Total Tradable Watts (a) =		26495
		Total Allowed Watts =		26495
		Total Allowed Supplemental Watts (b) =		500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	(C
SW Parking (Parking area, 59695 ft2): Tradable Wattage				
LED: AA4: LED Parking Luminaire: LED Roadway-Parking Unit 118W:	1	11	120	1
NE Parking Lot (Parking area, 68202 ft2): Tradable Wattage				
LED: AA4: LED Parking Luminaire: LED Roadway-Parking Unit 118W:	1	8	120	
LED: AA3-4: LED Parking Luminaire: LED Roadway-Parking Unit 130W:	1	4	240	
SE Drive (Driveway, 41136 ft2): Tradable Wattage				
LED: AA2: LED Parking Luminaire: LED Roadway-Parking Unit 42W:	1	10	120	1
BB Field Plaza (Plaza area, 55306 ft2): Tradable Wattage				
LED: BB2: LED Pedestrian Luminaire: LED Other Fixture Unit 36W:	1	1	35	
LED: BB3: LED Pedestrian Luminaire: LED Other Fixture Unit 36W:	1	5	35	

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
LED: BB4: LED Pedestrian Luminaire: LED Other Fixture Unit 36W:	1	1	35	35
LED: BB5: LED Pedestrian Luminaire: LED Other Fixture Unit 36W:	1	4	35	140
LED: DD: LED Ext Downlight: LED Other Fixture Unit 16W:	1	20	15	300
LED: C: LED Area Light: LED Other Fixture Unit 80W:	1	9	75	675
Park Sidewalks (Walkway >= 10 feet wide, 72063 ft2): Tradable Wattage				
LED: BB2: LED Pedestrian Luminaire: LED Other Fixture Unit 36W:	1	39	35	1365
LED: BB3: LED Pedestrian Luminaire: LED Other Fixture Unit 36W:	1	16	35	560
LED: BB5: LED Pedestrian Luminaire: LED Other Fixture Unit 36W:	1	6	35	210
NW Entry Drive (Driveway, 11945 ft2): Tradable Wattage				
LED: AA3: LED Parking Luminaire: LED Roadway-Parking Unit 130W:	1	3	120	360
NW Parking (Parking area, 10519 ft2): Tradable Wattage				
LED: AA4: LED Parking Luminaire: LED Roadway-Parking Unit 130W:	1	2	120	240
West Drive (Driveway, 16572 ft2): Tradable Wattage				
LED: AA3: LED Parking Luminaire: LED Roadway-Parking Unit 130W:	1	5	120	600
LED: AA4: LED Parking Luminaire: LED Roadway-Parking Unit 130W:	1	1	120	120
		Total Tradable Proposed Watts =		9255

Exterior Lighting PASSES: Design 66% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Helen Reschl — Name - Title
Helen Reschl — Signature
05.02.2025 — Date

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Areas such as security or emergency areas tha need continuous lighting.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.7 [EL28][1]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.5.1 [FI19][2]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C406.3 [FI67][1]	Reduced lighting power - this credit specifies that the connected lighting power is >= 10% more efficient than 2021 IECC requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI16][2]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number:	223072.00
Sheet Issue Date:	2025-05-02
Drawn By:	HFR
Checked By:	AEI

Key Map

Drawing
IECC LIGHTING COMCHECK REPORT

E-001

SITE PLAN SUBMITTAL

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DIGITAL SIGN: PROVIDE POWER, PROVIDE "UC" PATHWAY AND FIBER.

HANDHOLE #1.2

ART SCULPTURE: REFER TO ENLARGED PLAN ON E1-101

ART ENCLOSURE PEDESTAL PS2

PROVIDE "UC" PATHWAY AND FIBER.

PEDESTAL PS1

HANDHOLE #1.1

HANDHOLE #1.0

HANDHOLE #2.1

HANDHOLE #2.0

CORE ELECTRIC HANDHOLE FOR FUTURE EXTENSION OF PRIMARY SERVICE TO FUTURE HUB BLDG

ELECTRICAL SERVICE #1
480Y/277V, 225kVA-PAD MOUNT
TRANSFORMER BY CORE

SECURITY HANDHOLE #4.2b

ELECTRICAL SERVICE #3
208Y/120V, 75kVA-PAD MOUNT
TRANSFORMER BY CORE

HANDHOLE #3.0

TELECOM ROOM

HANDHOLE #0.4

HEADQUARTERS BLDG
REFER TO E-111A FOR BLDG ELEC PLANS

HANDHOLE #4.2

HANDHOLE #0.5

HANDHOLE #4.2a

HANDHOLE #4.1

HANDHOLE #4.0

HANDHOLE #3.1

HANDHOLE #0.1

COORD LOCATION OF TWO LIGHT POLES WITH CIVIL. RE: 40' SCALE DWGS FOR MORE INFO.

ELECTRICAL SERVICE #2
208Y/120V 75kVA-PAD MOUNT
TRANSFORMER BY CORE

HANDHOLE #0.2

HANDHOLE #0.3

HANDHOLE #5.0

HANDHOLE #5.1

CONCESSIONS BUILDING (EXIST)

OVERALL SITE ELECTRICAL PLAN MATCH LINE

OVERALL SITE ELECTRICAL PLAN MATCH LINE

PLAN GENERAL NOTES:

REFER TO E-000 FOR ELECTRICAL GENERAL NOTES, LIGHTING GENERAL NOTES, LIGHTING CONTROL NOTES, AND LIGHTING FLAG NOTES. (TYPICAL FOR ALL SHEETS).

SITE LIGHTING CONTROL ZONES: s = SECURITY, g = GENERAL, c = CAMERA. REFER TO LIGHTING ELECTRICAL CONNECTION & CONTROL SCHEDULE FOR MORE INFORMATION ON BRANCH CIRCUITING.

SITE PLAN FLAG NOTES:

1. ROUTE UNDERGROUND COMMUNICATIONS CONDUITS AND SECURITY CONDUITS BELOW CONCRETE SIDEWALK WHERE FEASIBLE. AVOID CONFLICT WITH OTHER UTILITIES. AVOID ROUTING UNDER TREE DRIP LINES. (TYP)
2. ROUTE UNDERGROUND COMMUNICATIONS CONDUITS BELOW GRADE AND AVOID CONFLICT WITH OTHER UTILITIES. AVOID ROUTING UNDER TREE DRIP LINES (TYP.)

Site Electrical Plan - South
SCALE: 1" = 80'
0 40 80 160 240
SCALE IN FEET
2 E-100A

Site Electrical Plan
SCALE: 1" = 80'
0 40 80 160 240
SCALE IN FEET
1 E-100A

NORTH

CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

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Project Number:	223072.00
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Drawn By:	AEI
Checked By:	HFR

Key Map

Drawing

OVERALL SITE ELECTRICAL PLAN - BASE BID

E-100A

SITE PLAN SUBMITTAL

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HANDHOLE #1.2

ART ENCLOSURE PS2

PROVIDE "UC" PATHWAY AND FIBER.

PEDESTAL PS1

HANDHOLE #1.1

HANDHOLE #1.0

ALTERNATE 1: MULTIPURPOSE FIELD PANELS: MOUNTED IN ENCLOSURE AT THIS LOCATION.

HANDHOLE #2.1

HANDHOLE #2.0

CORE ELECTRIC HANDHOLE FOR FUTURE EXTENSION OF PRIMARY SERVICE TO FUTURE HUB BLDG

ELECTRICAL SERVICE #1
480Y/277V, 225kVA-PAD MOUNT
TRANSFORMER BY CORE

SECURITY HANDHOLE #4.2b

ELECTRICAL SERVICE #3
208Y/120V, 75kVA-PAD MOUNT
TRANSFORMER BY CORE

HANDHOLE #3.0

TELECOM ROOM

HANDHOLE #0.4

HEADQUARTERS BLDG
REFER TO E-111A FOR
BLDG ELEC PLANS

HANDHOLE #4.2

HANDHOLE #0.5

HANDHOLE #4.2a

HANDHOLE #4.1

HANDHOLE #4.0

HANDHOLE #3.1

HANDHOLE #0.1

COORD LOCATION OF TWO LIGHT POLES WITH CIVIL. RE: 40' SCALE DWGS FOR MORE INFO.

ELECTRICAL SERVICE #2
208Y/120V 75kVA-PAD MOUNT
TRANSFORMER BY CORE

HANDHOLE #0.2

HANDHOLE #0.3

HANDHOLE #5.0

HANDHOLE #5.1

CONCESSIONS BUILDING (EXIST)

OVERALL SITE ELECTRICAL PLAN MATCH LINE

OVERALL SITE ELECTRICAL PLAN MATCH LINE

PLAN GENERAL NOTES:

REFER TO E-000 FOR ELECTRICAL GENERAL NOTES, LIGHTING GENERAL NOTES, LIGHTING CONTROL NOTES, AND LIGHTING FLAG NOTES. (TYPICAL FOR ALL SHEETS).

SITE LIGHTING CONTROL ZONES: s = SECURITY, g = GENERAL, c = CAMERA. REFER TO LIGHTING ELECTRICAL CONNECTION & CONTROL SCHEDULE FOR MORE INFORMATION ON BRANCH CIRCUITING.

SITE PLAN FLAG NOTES:

1. ROUTE UNDERGROUND COMMUNICATIONS CONDUITS AND SECURITY CONDUITS BELOW CONCRETE SIDEWALK WHERE FEASIBLE. AVOID CONFLICT WITH OTHER UTILITIES. AVOID ROUTING UNDER TREE DRIP LINES. (TYP)

2. ROUTE UNDERGROUND COMMUNICATIONS CONDUITS BELOW GRADE AND AVOID CONFLICT WITH OTHER UTILITIES. AVOID ROUTING UNDER TREE DRIP LINES (TYP.)

Site Electrical Plan - South
SCALE: 1" = 80'
2 / E-100B

Site Electrical Plan
SCALE: 1" = 80'
1 / E-100B

NORTH

CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

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Key Map

Drawing

OVERALL SITE ELECTRICAL PLAN - ALTERNATES

E-100B

SITE PLAN SUBMITTAL

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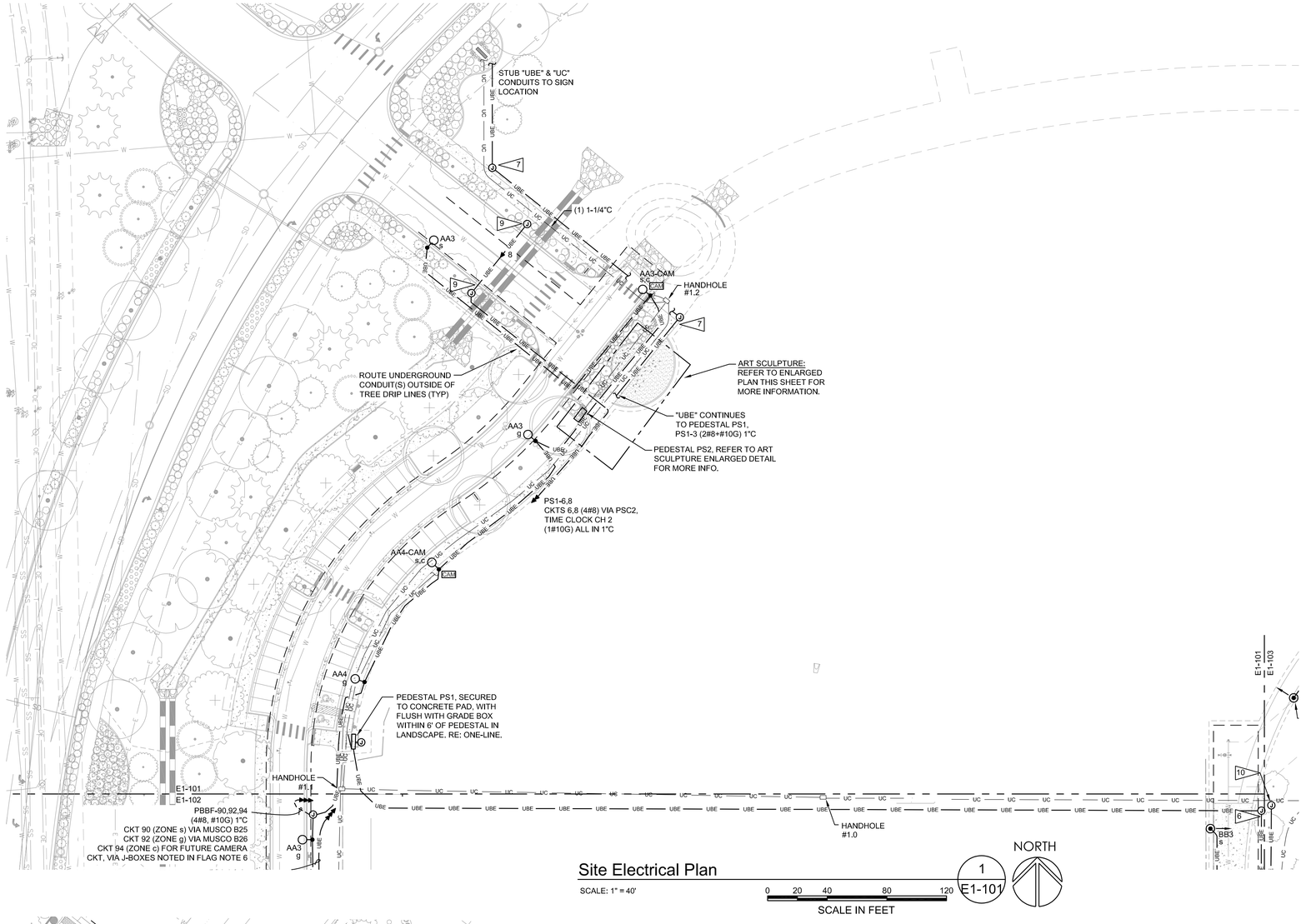
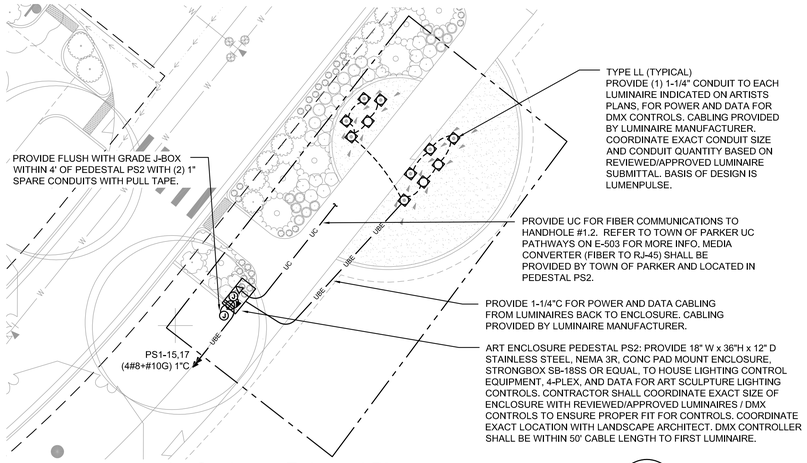


Site Electrical Plan

SCALE: 1" = 40'

1 / E1-101



Art Sculpture Enlarged Plan

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

2 / E1-101

PLAN GENERAL NOTES:

REFER TO E-000 FOR ELECTRICAL GENERAL NOTES, LIGHTING GENERAL NOTES, LIGHTING CONTROL NOTES, AND LIGHTING FLAG NOTES. (TYPICAL FOR ALL SHEETS).

SITE LIGHTING CONTROL ZONES: s = SECURITY, g = GENERAL, c = CAMERA. REFER TO LIGHTING ELECTRICAL CONNECTION & CONTROL SCHEDULE FOR MORE INFORMATION ON BRANCH CIRCUITING.

FLAG NOTES:

NOT ALL FLAG NOTES MAY BE USED ON EACH SHEET.

1. PROVIDE WHILE IN-USE WEATHERPROOF, GFI RECEPTACLE MOUNTED ON POST WITHIN BACKFLOW PREVENTOR ENCLOSURE. REFER TO DETAIL ON E-502.
2. PROVIDE WEATHERPROOF, GFI DUPLEX RECEPTACLE IN DUGOUT. COORDINATE EXACT LOCATION WITH LANDSCAPE ARCH.
3. PROVIDE 120V CIRCUIT FOR SCOREBOARD POWER. PROVIDE LIGHTNING PROTECTION FOR SCOREBOARD.
4. PROVIDE PEDESTAL FOR FOOD TRUCK VENDORS. REFER TO DETAIL ON E-501.
5. PROVIDE WEATHPROOF, GFI DUPLEX RECEPTACLE ON BACKSIDE OF BACKSTOP FENCE FOR SCOREBOARD CONTROLLER.
6. PROVIDE FLUSH WITH GRADE J-BOX FOR BRANCH CIRCUIT FEEDER TO PEDESTAL PS1 AND WEST BRANCH CIRCUITS. RE: ONE-LINE. LOCATE J-BOXES OUTSIDE OF THE WATER LINE ESMT.
7. POWER FOR DIGITAL SIGN.
8. PROVIDE FLUSH WITH GRADE J-BOX, WITHIN 2' OF BACK OF CURB, WITH 1-1/4"C BACK TO NEAREST EV CHARGING PEDESTAL. REFER TO DETAIL ON E-501.
9. PROVIDE EXTERIOR GROUND BOX WITH TWO (2) 20A DUPLEX RECEPTACLES IN A WEATHERPROOF GRADE BOX WITH WHILE IN-USE COVER, LEGRAND WIREMOLD XB814C520GY GRAY. PROVIDE 20A GFI PROTECTED CIRCUIT AS INDICATED.
10. PROVIDE FLUSH WITH GRADE J-BOX WITH (2) 2-1/2"C WITH PULL TAPE, BACK TO PANEL PHORR IN HEADQUARTERS BUILDING, FOR FEEDER ROUTING FOR PANEL PMPF. PROVIDE AS PART OF BASE BID WHICH CAN BE UTILIZED FOR ALTERNATE 1, OR IF ALTERNATE 1 IS NOT ACCEPTED, THIS CAN BE UTILIZED FOR FUTURE INSTALL. LABEL CONDUITS "FOR FUTURE PANEL PMPF FEEDER". LOCATE J-BOXES OUTSIDE OF THE WATER LINE EASEMENT.
11. TYPE FF FLAGPOLE UPLIGHTS FLUSH MOUNT IN CONCRETE, OFFSET 6' FROM FLAGPOLES, 180 DEGREES. AIM UP AT FLAG.

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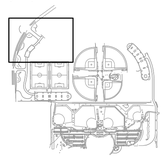
Key Map



Drawing

SITE ELECTRICAL PLAN

E1-101

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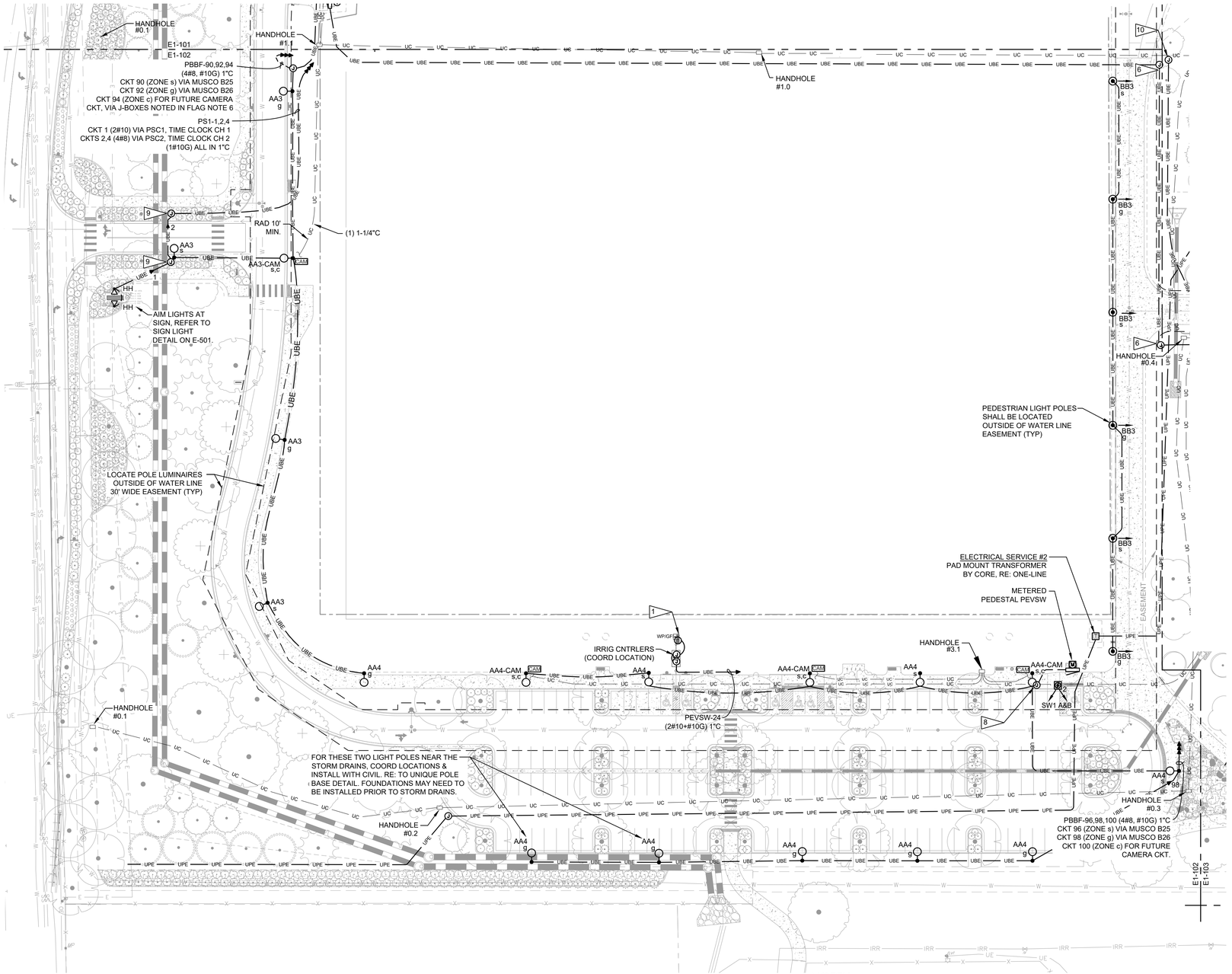
THE LINE SHOWN ABOVE IS 1" WHEN PLOTTED AT FULL SIZE SHEETS ORIGINAL IMAGE SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE TOTAL & PRINTS CORRECTLY



Site Electrical Plan

SCALE: 1" = 40'

0 20 40 80 120

SCALE IN FEET

NORTH

1 E1-102

PLAN GENERAL NOTES:

REFER TO E-000 FOR ELECTRICAL GENERAL NOTES, LIGHTING GENERAL NOTES, LIGHTING CONTROL NOTES, AND LIGHTING FLAG NOTES. (TYPICAL FOR ALL SHEETS).

SITE LIGHTING CONTROL ZONES: s = SECURITY, g = GENERAL, c = CAMERA, REFER TO LIGHTING ELECTRICAL CONNECTION & CONTROL SCHEDULE FOR MORE INFORMATION ON BRANCH CIRCUITING.

FLAG NOTES:

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11. TYPE FF FLAGPOLE UPLIGHTS FLUSH MOUNT IN CONCRETE, OFFSET 6' FROM FLAGPOLES, 180 DEGREES. AIM UP AT FLAG.

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Town of Parker
SALISBURY REGIONAL PARK - PHASE 1
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PARKER, CO 80134

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ARCHITECTURE

LANDSCAPE ARCHITECTURE

PLANNING

INTERIOR DESIGN

	DATE	DESCRIPTION

Project Number:	223072.00
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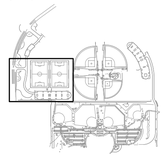
Drawn By:	AEI
Checked By:	HFR

Key Map



Drawing

SITE ELECTRICAL PLAN

E1-102

SITE PLAN SUBMITTAL
Page 293 of 313

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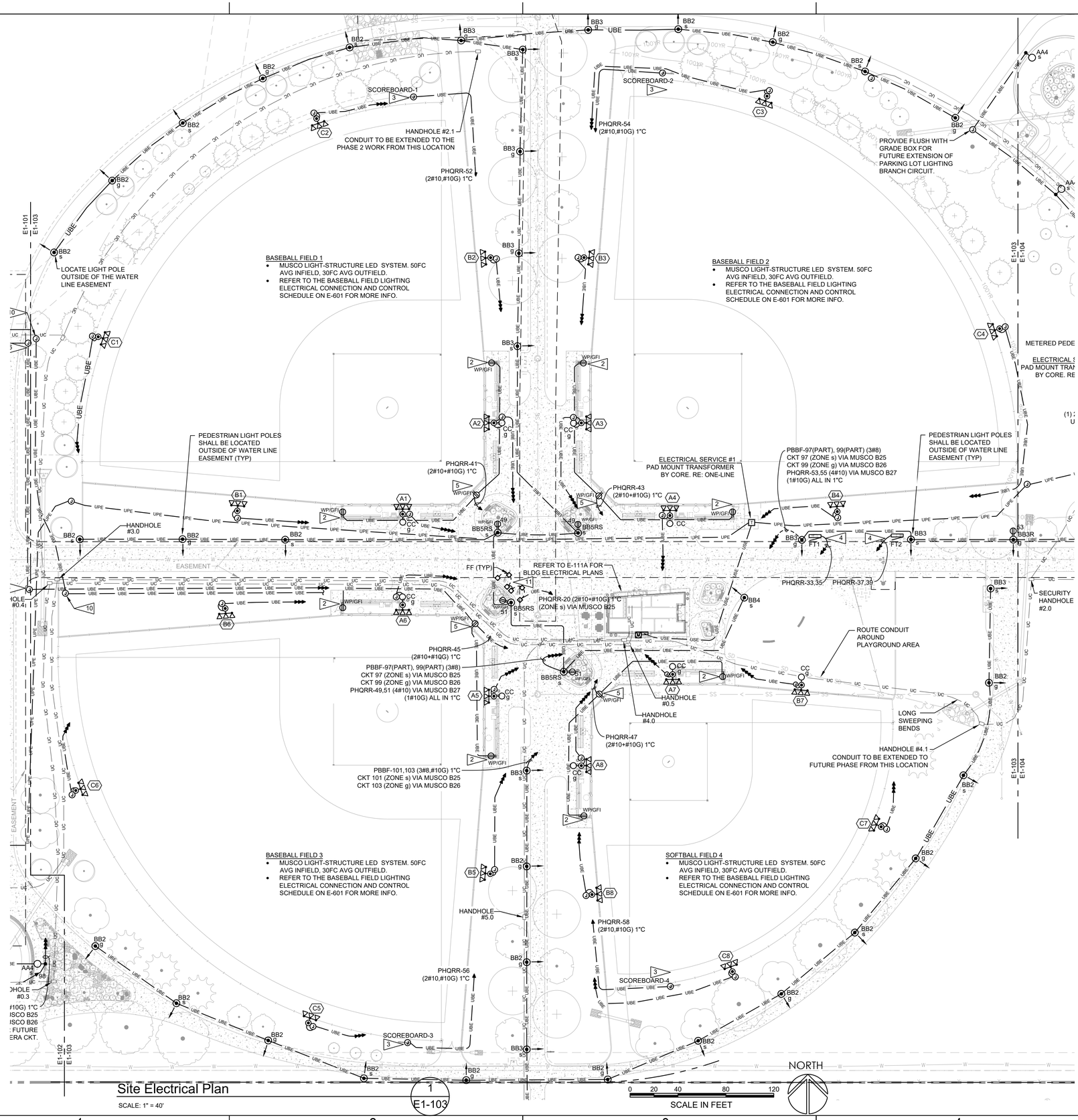
COLORADO 811

CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

THE LINE SHOWN ABOVE IS 1" LONG WHEN PLOTTED ON ANSI D SHEETS ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE TO FOLLOW (PRINTED CORRECT)



Site Electrical Plan

SCALE: 1" = 40'

1 / E1-103

PLAN GENERAL NOTES:

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Town of Parker SALISBURY REGIONAL PARK - PHASE 1

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LANDSCAPE ARCHITECTURE

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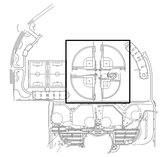

Drawing

SITE ELECTRICAL PLAN

E1-103

SITE PLAN SUBMITTAL
Page 294 of 313

COLORADO 811
CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

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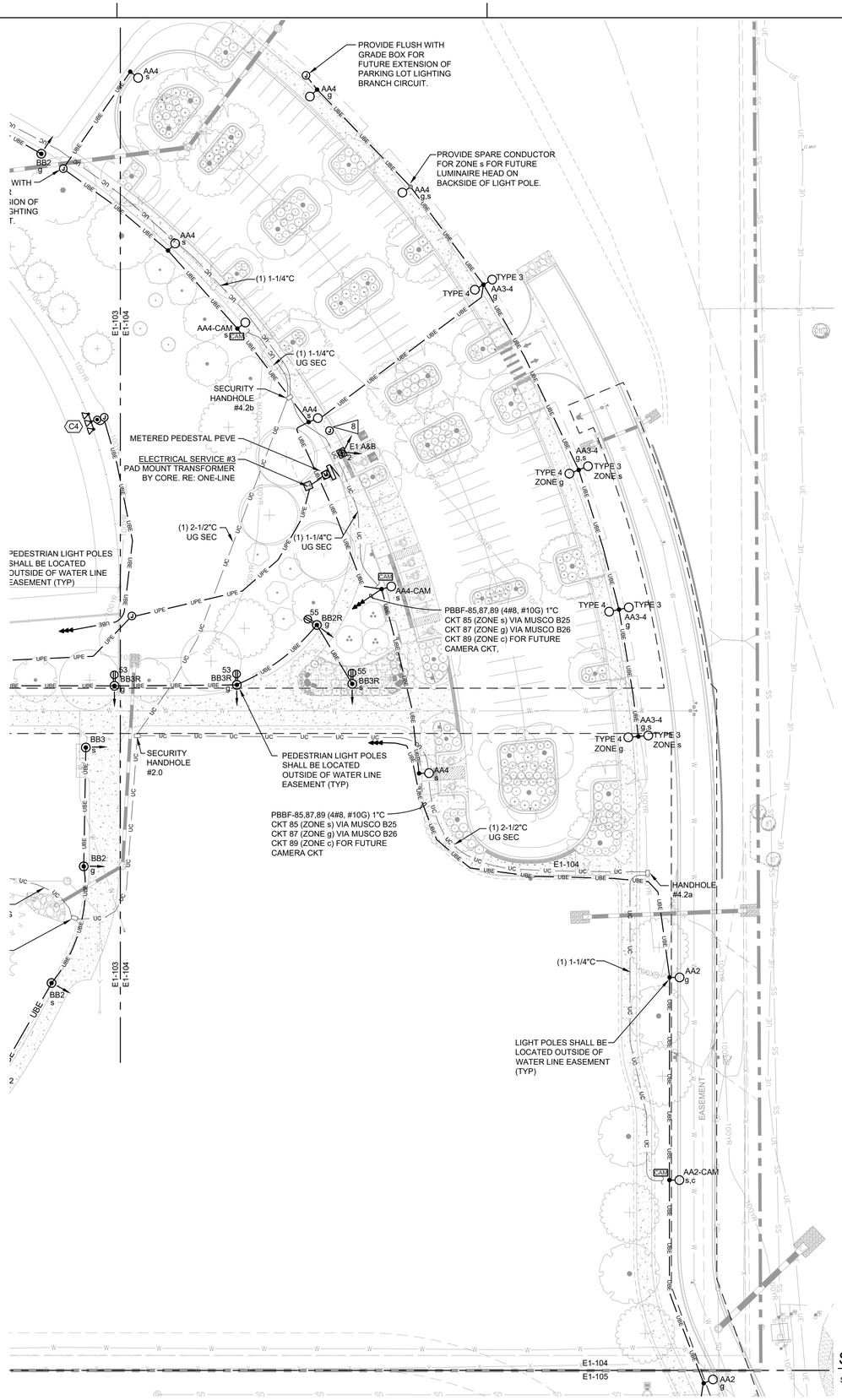

Site Electrical Plan

SCALE: 1" = 40'

0 20 40 80 120

SCALE IN FEET

1 E1-104

NORTH

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ARCHITECTURE

LANDSCAPE ARCHITECTURE

PLANNING

INTERIOR DESIGN

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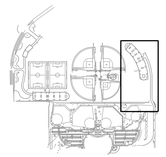

Drawing

SITE ELECTRICAL PLAN

E1-104

SITE PLAN SUBMITTAL
Page 295 of 313

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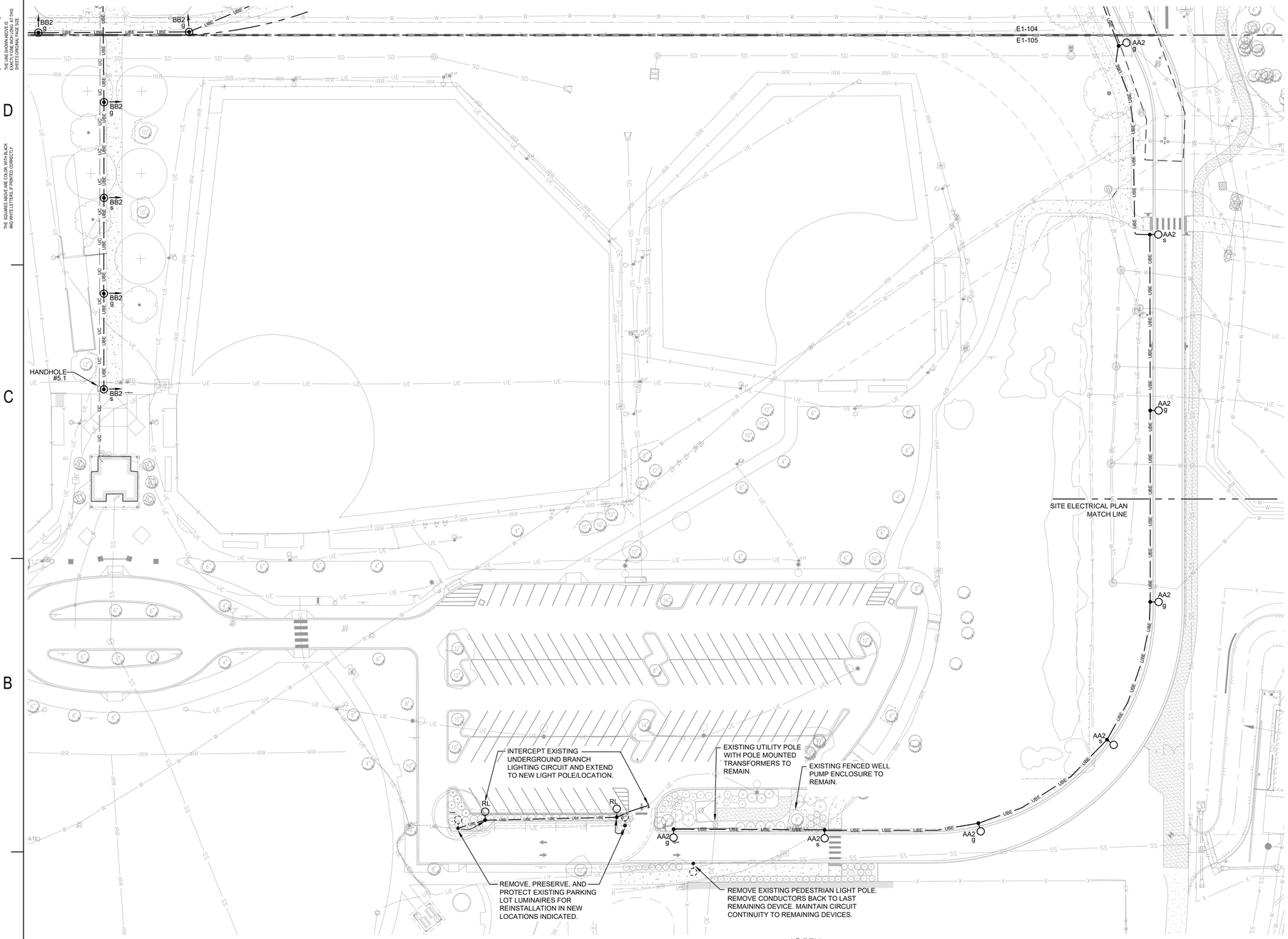

Site Electrical Plan

SCALE: 1" = 40'

0 20 40 80 120

SCALE IN FEET

1 / E1-105

NORTH

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ARCHITECTURE

LANDSCAPE ARCHITECTURE

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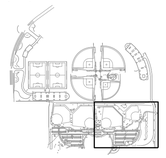

Drawing

SITE ELECTRICAL PLAN

E1-105

SITE PLAN SUBMITTAL

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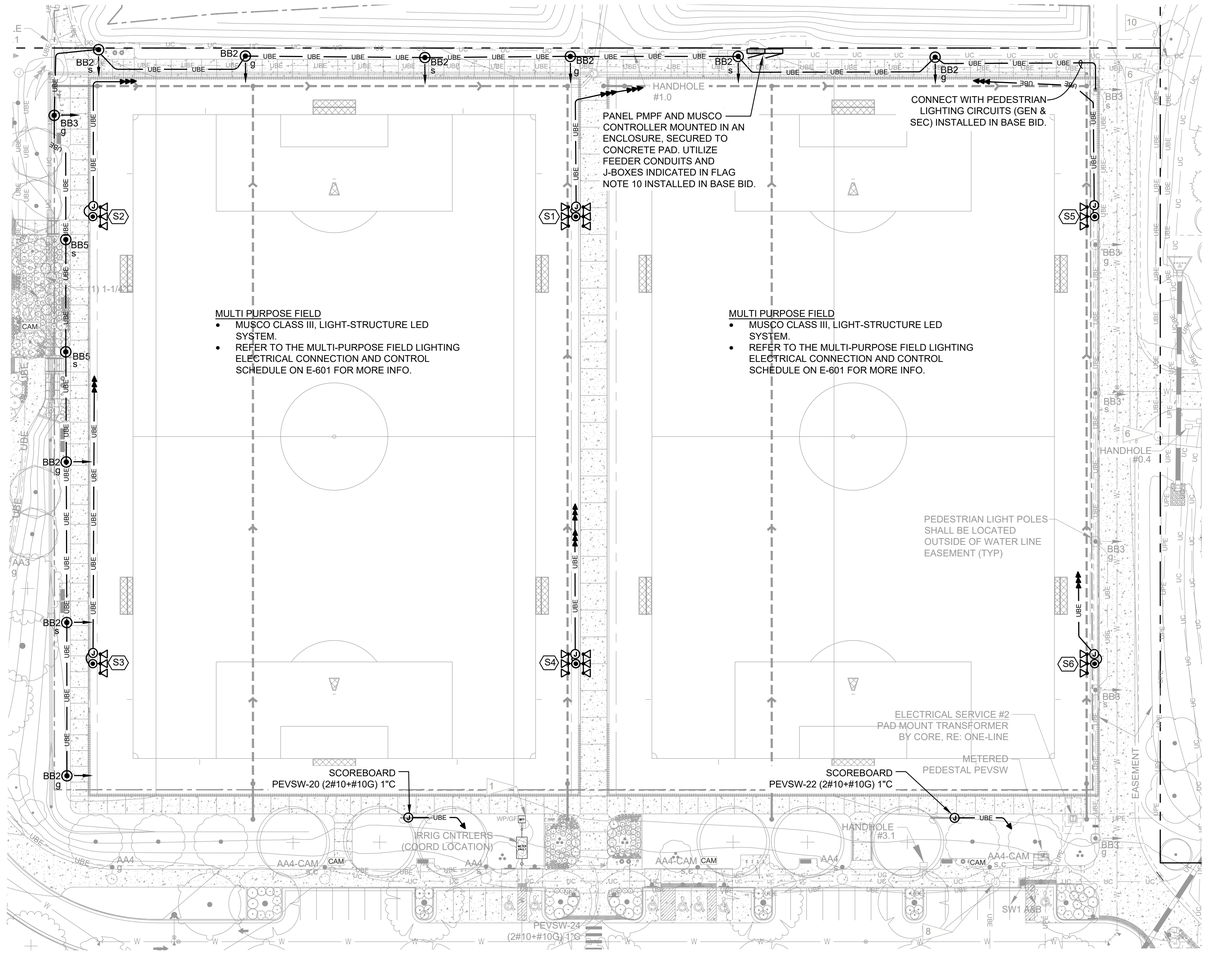


Site Electrical Plan - Multi-Use Fields - Alternate No. 01

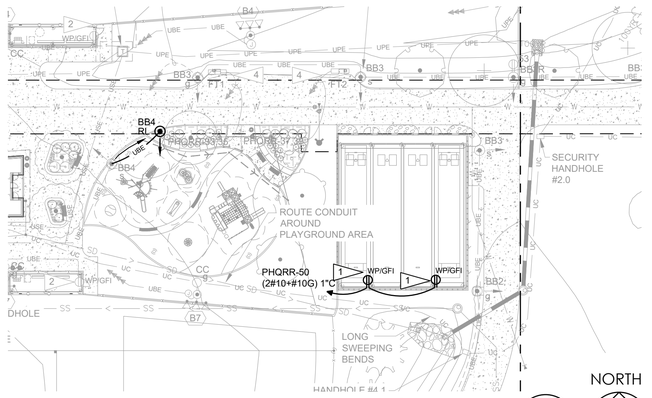
1 / E1-106

SCALE: 1" = 40'

0 20 40 80 120

SCALE IN FEET

NORTH



Site Electrical Plan - Alternate No. 04 - Batting Cages

2 / E1-106

SCALE: 1" = 40'

0 20 40 80 120

SCALE IN FEET

NORTH

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FLAG NOTES - ALTERNATES:

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7 ALTERNATE NO. 04 - BATTING CAGES: PROVIDE WEATHPROOF, GFI DUPLEX RECEPTACLE ALONG INSIDE OF FENCING FOR PITCHING MACHINE. MOUNT TO INSIDE OF A FENCE POST AT 18" AFG.

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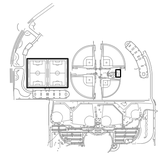

Drawing

SITE ELECTRICAL PLAN - ALTERNATES

E1-106

SITE PLAN SUBMITTAL
Page 297 of 313

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Salisbury Park - Headquarters Restroom Building - Equipment Electrical Connection Schedule

	Description	Electrical Load	Volt	Ph	AIC	Feeder Conductors & Conduit All Conductors shall be Copper	Protection	Notes
EF-1A	Exhaust Fan - Mens RR	66 W	120	1	NA	Panel PHQRR-27, Share with Lts Feeder (2#12+1#12G) 1/2"C	Thermal Overload Safety Disc @ Unit 15A1P / 2A Fuse	1,3,9
EF-1B	Exhaust Fan - Womens RR	66 W	120	1	NA	Panel PHQRR-27, Share with Lts Feeder (2#12+1#12G) 1/2"C	Thermal Overload Safety Disc @ Unit 15A1P / 2A Fuse	1,3,9
EF-1C	Exhaust Fan - Utility	66 W	120	1	NA	Panel PHQRR-27, Share with Lts Feeder (2#12+1#12G) 1/2"C	Thermal Overload Safety Disc @ Unit 15A1P / 2A Fuse	3,7,9
EF-2	Exhaust Fan - Family RR	96 W	120	1	NA	Panel PHQRR-27, Share with Lts Feeder (2#12+1#12G) 1/2"C	Thermal Overload Safety Disc @ Unit 15A1P / 2A Fuse	1,3,9
EF-3	Exhaust Fan - Storage (on Roof)	1/4 HP 5.8 FLA	120	1	NA	Panel PHQRR-2, Brkr (20A1P) Feeder (2#12+1#12G) 1/2"C	Thermal Overload Safety Disc @ Unit 15A1P / 2A Fuse	3,7,9
EF-4	Exhaust Fan - Electrical Rm	66 W	120	1	NA	Panel PHQRR-2 Share with EF-3 Feeder (2#12+1#12G) 1/2"C	Thermal Overload Safety Disc @ Unit 15A1P / 2A Fuse	3,7,9
ECUH-1A	Electric Cabinet Unit Heater - Mens	5kW 24 MCA	208	1	NA	Panel PHQRR-12,14 Brkr (30A2P) Feeder (2#10+1#10G) 1/2"C	Heavy Duty Safety Disc @ Unit 30A2P / 30FRN-R	2,9
ECUH-1B	Electric Cabinet Unit Heater - Womens	5kW 24 MCA	208	1	NA	Panel PHQRR-8,10 Brkr (30A2P) Feeder (2#10+1#10G) 1/2"C	Heavy Duty Safety Disc @ Unit 30A2P / 30FRN-R	2,9
ECUH-1C	Electric Cabinet Unit Heater - Storage	5kW 24 MCA	208	1	NA	Panel PHQRR-22,24 Brkr (30A2P) Feeder (2#10+1#10G) 1/2"C	Heavy Duty Safety Disc @ Unit 30A2P / 30FRN-R	2,9
ECUH-2A	Electric Cabinet Unit Heater - Family	2kW 10 MCA	208	1	NA	Panel PHQRR-16,18 Brkr (20A2P) Feeder (2#12+1#12G) 1/2"C	Heavy Duty Safety Disc @ Unit 30A2P / 15FRN-R	2,9
ECUH-2B	Electric Cabinet Unit Heater - Office	2kW 10 MCA	208	1	NA	Panel PHQRR-4,6 Brkr (20A2P) Feeder (2#12+1#12G) 1/2"C	Heavy Duty Safety Disc @ Unit 30A2P / 15FRN-R	2,9
EUH-1A	Electric Unit Heater - Utility	5.0 kW 24 MCA	208	1	NA	Panel PHQRR-36,38 Brkr (30A2P) Feeder (2#10+1#10G) 1/2"C	Heavy Duty Safety Disc @ Unit 30A2P / 30FRN-R	2,9
EUH-1B	Electric Unit Heater - Electrical Rm	5.0 kW 24 MCA	208	1	NA	Panel PHQRR-3,5 Brkr (30A2P) Feeder (2#10+1#10G) 1/2"C	Heavy Duty Safety Disc @ Unit 30A2P / 30FRN-R	2,9
AC-3	Ductless Split AC Fan Coil Unit - IT Rm	0.5 MCA	208	1	NA	Power Provided From CU-2 Feeder (2#12+1#12G) 1/2"C	Thermal Overload Safety Disc @ Unit 15A2P / 2A Fuse	3,4,5,9
AC-4	Ductless Split AC Fan Coil Unit - Office	1.6 MCA	208	1	NA	Power Provided From CU-2 Feeder (2#12+1#12G) 1/2"C	Thermal Overload Safety Disc @ Unit 15A2P / 4A Fuse	3,4,5,9
CU-2	Ductless Split AC Condensing Unit	25.0 MCA 40.0 MOCP	208	1	NA	Panel PHQRR-15,17 Brkr (40A2P) Feeder (2#8+1#10G) 3/4"C	Heavy Duty Safety Disc @ Unit 60A2P / 40FRS-R	2,9
EWH-1	Electric Water Heater	6.0 kW 7.25 A	480	3	NA	Panel PBBF-74,76,78 Brkr (20A3P) Feeder (3#12+1#12G) 1/2"C	Heavy Duty Safety Disc @ Unit 30A2P / 15FRN-R	2,9
CP-1	Circulation Pump	70W 1A	120	1	NA	Panel PHQRR-1 (20A1P) Feeder (2#12+1#12G) 1/2"C	Thermal Overload Safety Disc @ Unit 20A1P / 5A Fuse	3,9
OHD	Overhead Door	3/4 HP 13.8 FLA	120	1	NA	Panel PHQRR-31 Brkr (20A1P) Feeder (2#12+1#12G) 1/2"C	Thermal Overload Safety Disc @ Unit 20A1P / 20A Fuse	3,6,9
HD	Hand Dryer	1620 W	120	1	NA	Panel PHQRR-CKts on Plans (20A1P) Feeder (2#12+1#12G) 1/2"C	Hardwire Connection Only	9

Notes (All notes may not be used in the schedule above):

1	Control with lighting controller in room (occupancy sensor on with lights in each room) <
2	Provide a new NEMA-3R Heavy Duty Safety Disconnect at the unit and provide a new power feeder from the indicated Electrical Panel to the equipment as indicated <
3	Provide a new Thermal Overload Safety Disconnect at the unit and provide a new power feeder from the indicated Electrical Panel to the new equipment as indicated <
4	Unit power and control provided from associated Condensing Unit (CU) by Div 26, verify exact wiring requirements with equipment manufacturer, supplier, and installer <
5	Unit furnished with Condensate Pump, Provide NEMA 5-20R Recept for Condensate Pump Power Connection - Share branch Circuit with nearest convenience receptacle <
6	Overhead Door Operator furnished and installed by Div 11 Contractor, Power and line voltage control Wiring by Div 16 Contractor (EC). Install 3-button controller, Open / Close / Stop. <
7	Provide connection to line voltage switch or variable speed control switch, refer to Mechanical Plans and coordinate with Div 23 Contractor for Switch location. Standard Toggle Switch furnished by Div 26 / Variable Speed Switch furnished by Div 23 / all line voltage wiring and terminations by Div 26 <
8	Provide conduit to for low voltage thermostat, refer to Mechanical Plans and coordinate with Div 23 Contractor for thermostat location. T-Stat by Div 23 <
9	Single point power connection to unit - verify internal equipment/device field wiring requirements with the equipment manufacturer, supplier, and installer <

COORDINATE EXACT REQUIREMENTS FOR ALL ELECTRICAL WORK, ASSOCIATED WITH THE MECHANICAL EQUIPMENT MODIFICATIONS, WITH THE MECHANICAL CONTRACTOR, MANUFACTURERS' NAMEPLATES AND LITERATURE PRIOR TO ROUGH-IN. REFER TO THE MECHANICAL PLANS (HVAC & PLUMBING) FOR ALL EQUIPMENT LOCATIONS

Name: **PHQRR - Headquarters**
Volt: **208/120**
Ph: **3**
Wire: **4**
Mnt: **Surface**
Bus Rating: **400**
Main Breaker: **400**
AIC Rating: **10,000**

	Code	Description	Load VA	Bkr	P	Ph A	Ph B	Ph C	P	Bkr	Load VA	Description	Code	
1	6	Circ Pump	200	20	1	*			1	20	132	EF-3, EF-4	3	2
3	4	EUH-1B Elec Rm	5000	40	2		*		2	20	2000	ECUH-2B Office	4	4
5		-----		/				*	/			-----		6
7	2	Data Rack R2	600	20	1	*			2	30	4800	ECUH-1B Women	4	8
9	2	Rec IT	540	20	1		*		/			-----		10
11	3	AC-3, AC-4	436.8	15	2			*	2	30	4800	ECUH-1A Men	4	12
13		-----		/		*			/			-----		14
15	6	CU-2	5200	40	2		*		2	20	2000	ECUH-2A Family	4	16
17		-----		/				*	/			-----		18
19	2	Rec-Stor, Elec,Chase	900	20	1	*			1	20	150	Ltg Flag pole uplights	1	20
21	2	Rec-Exterior	540	20	1		*		2	30	4800	ECUH-1C Storage	4	22
23	2	Rec-Office	1080	20	1			*	/			-----		24
25	2	Rec-Office	720	20	1	*			1	20		SPARE		26
27	1	Ltg - Bldg Int, RR EFs	1053	20	1		*		1	20		SPARE		28
29	1	Ltg - Bldg Exterior	400	20	1			*	3	60	15000	Concessions Equip	5	30
31	6	Overhead Door	1656	20	1	*			/	/		-----		32
33	6	Food Truck FT1	7000	50	2		*		/	/		-----		34
35				/				*	2	40	5000	EUH-1A Utility	4	36
37	6	Food Truck FT2	7000	50	2	*			/			-----		38
39				/				*	1	20	1620	Hand Dryer-Womens	6	40
41	2	Rec BB Field 1 Backstp	540	20	1			*	1	20	1620	Hand Dryer-Womens	6	42
43	2	Rec BB Field 2 Backstp	540	20	1	*			1	20	1620	Hand Dryer-Mens	6	44
45	2	Rec BB Field 3 Backstp	540	20	1		*		1	20	1620	Hand Dryer-Mens	6	46
47	2	Rec BB Field 4 Backstp	540	20	1			*	1	20	1620	Hand Dryer-Family	6	48
49	2	Rec Pedestrian Lts	800	20	1	*			1	20	1000	Rec Batting Cage (Alt 4)	2	50
51	2	Rec Pedestrian Lts	800	20	1		*		1	20	1500	Field 1 Scoreboard	6	52
53	2	Rec Pedestrian Lts	800	20	1			*	1	20	1500	Field 2 Scoreboard	6	54
55	2	Rec Pedestrian Lts	800	20	1	*			1	20	1500	Field 3 Scoreboard	6	56
57		SPARE		20	1		*		1	20	1500	Field 4 Scoreboard	6	58
59		SPARE		20	1			*	2	30	600	Data Rack R1 / UPS	6	60
61		SPARE		20	1	*			/					62
63		SPARE		20	1		*		1	20		SPARE		64
65		SPARE		20	1			*	1	20		SPARE		66
67		Space		-		*			-			Space		68
69		Space		-			*		-			Space		70
71		Space		-				*	-			Space		72
73		Space		-		*			-			Space		74
75		Space		-			*		-			Space		76
77		Space		-				*	-			Space		78
79		Space		-		*			-			Space		80
81		Space		-			*		-			Space		82
83		Space		-				*	-			Space		84

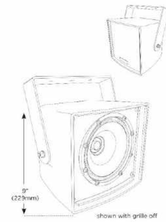
Code	Description	Load VA	Dem
1	Lighting	**1603**	125%
2	Rec up to 10,000	**10000**	100%
	Rec over 10,000	**740**	50%
3	Motor	**132**	100%
	Largest Motor	**437**	125%
4	Heater	**28400**	100%
5	Kitchen	**15000**	100%
6	Miscellaneous	**35756**	100%
7	Sub Panel		100%

Load Summary

Per Phase		
Ph A	**25936**	VA
Ph B	**33613**	VA
Ph C	**31518**	VA
Connected	**92067.8**	VA
Code Demand	**92208**	VA
Code Demand	**256.25**	Amps

COMMUNITY R Series

R.15COAX



Speaker PA (Typical)
N.T.S.

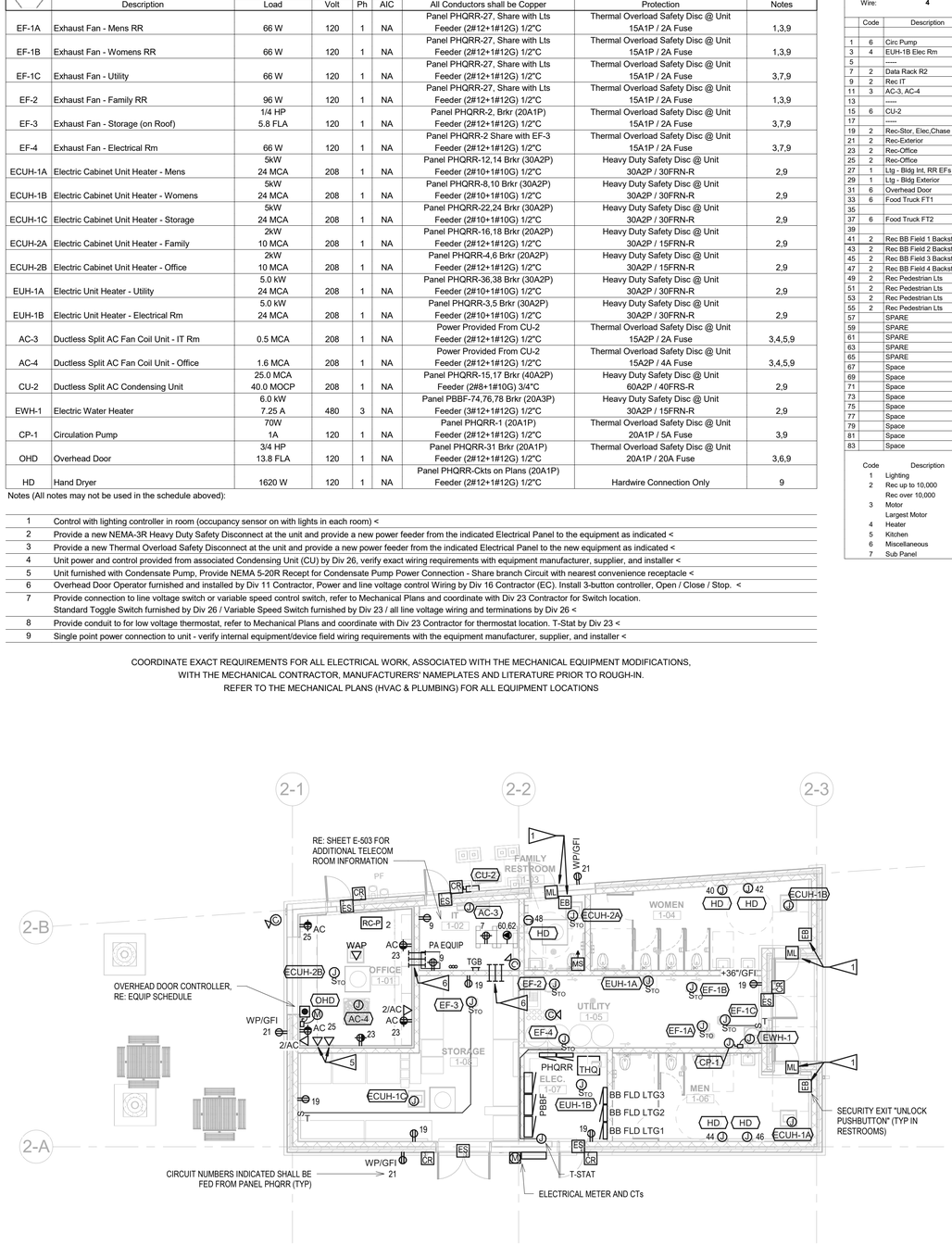
ELECTRICAL NOTES

REFER TO E-000 FOR ELECTRICAL GENERAL NOTES, LIGHTING GENERAL NOTES, LIGHTING CONTROL GENERAL NOTES, AND LIGHTING CONTROL NOTES.

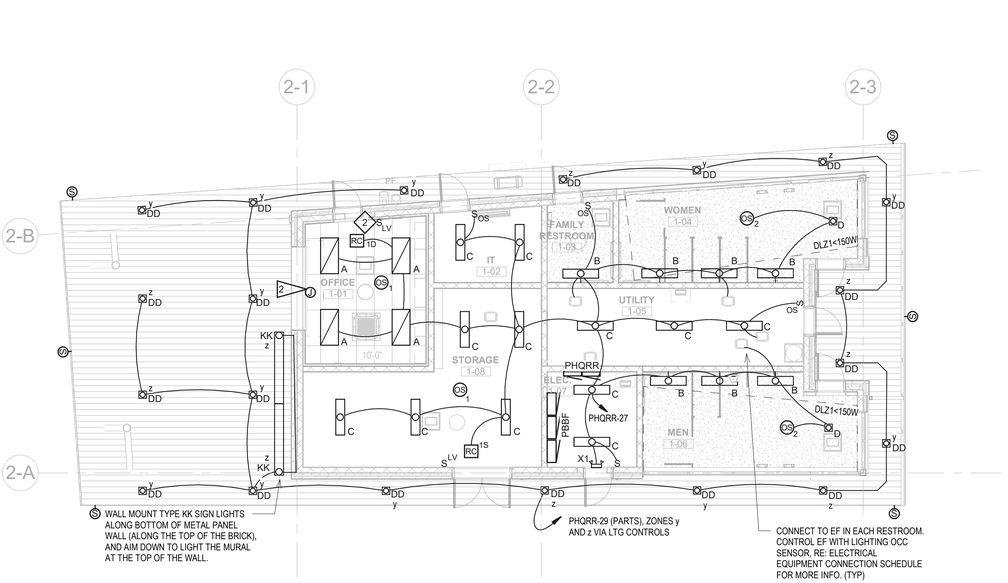
FLAG NOTES

NOT ALL FLAG NOTES MAY BE USED ON EACH SHEET.

1. PROVIDE DOOR LOCKS INTEGRATED WITH PARK SECURITY SYSTEM. RESTROOM DOORS SHALL BE CONTROLLED VIA PROGRAMMABLE TIME OF DAY LOCK/UNLOCK SECURITRON DT-7 DIGITAL TIMER. THE UTILITY, STORAGE, I.T., ELECTRICAL, (AND OFFICE) ROOM DOORS SHALL BE CONTROLLED VIA ADJACENT CARD READER/KEYPAD. REFER TO DRAWING SHEET E-000 FOR MORE INFORMATION REGARDING SECURITY SYSTEM REQUIREMENTS.
2. PROVIDE POWER TO BACKLIT SIGNAGE SPECIFIED BY ARCHITECT. COORDINATE WITH SIGN MANUFACTURER ON POWER CONNECTION LOCATIONS AND QUANTITIES. REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS AND FOR MORE INFORMATION ON SIGNAGE.
3. LOCATE, AIM, AND FOCUS LUMINAIRES TO HIGHLIGHT LETTER SIGNAGE AND PLACARDS.
4. FLUSH WITH GRADE BOX WITH SPARE CONDUITS FROM ELECTRICAL PANELS IN BUILDING TO BE UTILIZED FOR FUTURE PARK BUILD-OUT. REFER TO SITE ELECTRICAL PLAN FOR MORE INFORMATION ON SIZING AND LOCATION(S).
5. FOR PA SYSTEM CABLING AND REMOTE POWER ON/OFF: PROVIDE 2-GANG BACK BOX @ 18" AFF WITH (2)1"C STUBBED TO IT ROOM 1-02 ABOVE PA SYSTEM RACK LOCATION. INSTALL SHIELDED SIGNAL CABLING FOR TWO MICROPHONE (XLR) AND TWO LINE LEVEL INPUTS (1/4" TRS) TO SOUND SYSTEM. PROVIDE 1-GANG BOX @ 44" AFF WITH (1)1"C STUBBED TO IT ROOM 1-02. THIS BOX IS FOR THE FURMAN REMOTE POWER ON/OFF SWITCH.
6. (3) 1"C CONDUITS THROUGH BLOCK WALL FOR TELECOM/SECURITY CABLING.



1 HEADQUARTERS & RESTROOM BUILDING POWER PLAN
1/8" = 1'-0"



2 HEADQUARTERS & RESTROOM BUILDING LIGHTING & LOUDSPEAKER PLAN
1/8" = 1'-0"

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number:	223072.00
Sheet Issue Date:	2025-05-02
Drawn By:	HFR
Checked By:	AEI

Key Map

Drawing

HEADQUARTERS AND RESTROOM ELECTRICAL PLANS

E-111A

SITE PLAN SUBMITTAL
Page 298 of 313

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4/29/2025 8:06:22 PM

THE LINE SHOWN ABOVE IS 1" LONG ON ORIGINAL DRAWINGS - IF THIS SHEETS ORIGINAL IMAGE SIZE

THE SQUARES ABOVE ARE COLOR WITH BLACK PRINTED TEXT AND PHOTOGRAPHICS

FEEDER SCHEDULE

ALL WIRE SHALL BE COPPER UNLESS NOTED OTHERWISE

Feeder Key	# of Runs	Wire Size	Ground	Conduit	Notes
20A.3G	1 Set	3#12	+1#12G	3/4"C	1
20A.4G	1 Set	4#12	+1#12G	3/4"C	1
30A.3G	1 Set	3#10	+1#10G	3/4"C	1
30A.4G	1 Set	4#10	+1#10G	3/4"C	1
40A.3G	1 Set	3#8	+1#8G	3/4"C	1
40A.4G	1 Set	4#8	+1#8G	3/4"C	1
50A.3G	1 Set	3#6	+1#8G	1"C	
50A.4G	1 Set	4#6	+1#8G	1"C	
60A.3G	1 Set	3#4	+1#8G	1 1/4"C	
60A.4G	1 Set	4#4	+1#8G	1 1/4"C	
70A.3G	1 Set	3#3	+1#8G	1 1/4"C	
70A.4G	1 Set	4#4	+1#8G	1 1/4"C	
80A.3G	1 Set	3#3	+1#8G	1 1/4"C	
80A.4G	1 Set	4#3	+1#8G	1 1/4"C	
100A.3G	1 Set	3#1	+1#8G	1 1/2"C	
100A.4G	1 Set	4#1	+1#8G	1 1/2"C	
125A.3G	1 Set	3#1	+1#6G	1 1/2"C	
125A.4G	1 Set	4#1	+1#6G	1 1/2"C	
150A.3G	1 Set	3#1/0	+1#6G	2"C	
150A.4G	1 Set	4#1/0	+1#6G	2"C	
175A.3G	1 Set	3#2/0	+1#6G	2"C	
175A.4G	1 Set	4#2/0	+1#6G	2"C	
200A.3G	1 Set	3#3/0	+1#6G	2 1/2"C	
200A.4G	1 Set	4#3/0	+1#4G	2 1/2"C	
225A.3G	1 Set	3#4/0	+1#4G	2 1/2"C	
225A.4G	1 Set	4#4/0	+1#4G	2 1/2"C	
250A.3G	1 Set	3-250kcmil	+1#4G	2 1/2"C	
250A.4G	1 Set	4-250kcmil	+1#4G	2 1/2"C	
300A.3G	1 Set	3-350kcmil	+1#4G	3"C	
300A.4G	1 Set	4-350kcmil	+1#4G	3"C	
350A.3G	1 Set	3-500kcmil	+1#3G	3 1/2"C	
350A.4G	1 Set	4-500kcmil	+1#3G	3 1/2"C	
400A.3G	2 Sets	3#3/0	+1#3G	2 1/2"C	
400A.4G	2 Sets	4#3/0	+1#3G	2 1/2"C	
500A.3G	2 Sets	3-250kcmil	+1#2G	2 1/2"C	
500A.4G	2 Sets	4-250kcmil	+1#2G	2 1/2"C	
600A.3G	2 Sets	3-350kcmil	+1#1G	3"C	
600A.4G	2 Sets	4-350kcmil	+1#1G	3"C	
800A.3G	3 Sets	3-300kcmil	+1#1/0G	3"C	
800A.4G	3 Sets	4-300kcmil	+1#1/0G	3"C	
1000A.4G	4 Sets	4-250kcmil	+1#2/0G	2 1/2"C	
1200A.4G	4 Sets	4-350kcmil	+1#3/0G	3"C	

Refer to Electrical Equipment Connection Schedule for Mechanical and Bldg Equipment Feeder Ratings <

NOTES:

1 Minimum 1" Conduit for all underground installations

Short Circuit Summary

Point-to-Point * Feeder Summary

Description	Phase	Length	Isc Avail	# Runs	C	V(L-L)	Isc @ Device
Pedestal PEVE							
@ Core Xfrmr (75kVA)							13879
@ Ped PEVE	3	15	13879	1	13923	208	12344
Pedestal PEVSW							
@ Core Xfrmr (75kVA)							13879
@ Ped PEVE	3	30	13879	1	13923	208	11114
Headquarters Bldg							
@Core Trans (225kVA)							18042
@ PBBF	3	190	18042	2	22737	480	14187
@THQ (Xfrmr)	3	15	14187	1	10755	480	13243
@ PHQRR	3	15	5986	2	12844	208	5817
@ FT1	1	215	5817	1	2430	208	978
@ FT2	1	280	5817	1	2430	208	781
@TPS1	1	1400	14187	1	3806	208	277
@ PS1	1	15	347	1	16673	208	346

Point-to-Point * Transformer Summary

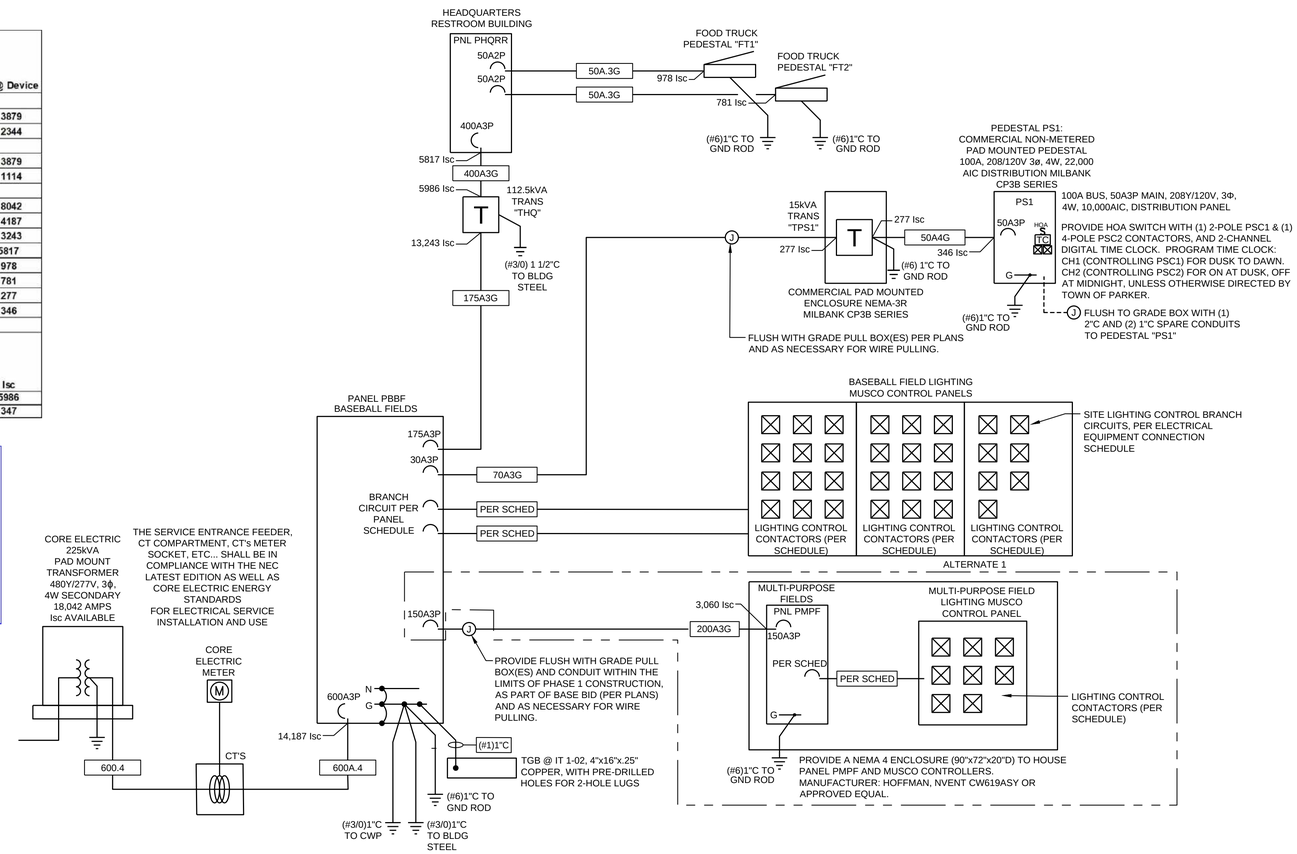
Transformer	Phase	% Imp	Isc Avail	kva	Vp(L-L)	Vs(L-L)	Isc
@THQ	3	4.2	13243	112.5	480	208	5986
@TPS1	3	5.5	277	15	480	208	347

Name: **PBBF - Baseball - Base Bid** Mnt Method: **Surface**
Volt: **480/277** Bus Rating: **600**
Ph: **3** Main Breaker: **600**
Wire: **4** AIC Rating: **22,000**

Code	Description	Load VA	Dem
1	Lighting	143730	125%
2	Rec up to 10,000		100%
	Rec over 10,000		50%
3	Motor		100%
	Largest Motor	70200	125%
4	Heater	6000	100%
5	Kitchen		100%
6	Miscellaneous	800	100%
7	Sub Panel	106578	100%

Load Summary

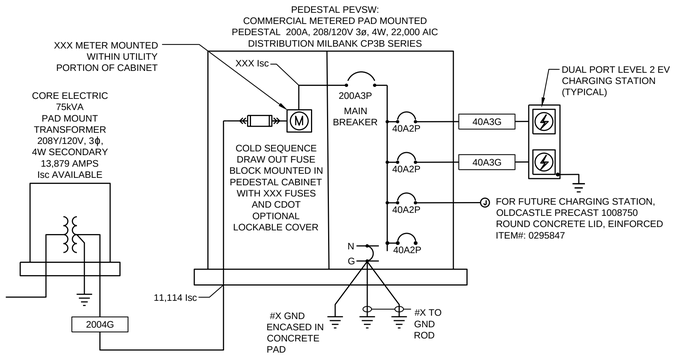
Per	Phase	
Ph A	108208	VA
Ph B	107358	VA
Ph C	107201	VA
Connected		327307.75 VA
Code Demand		380790 VA
Code Demand		458.56 Amps



BALLFIELD ELECTRICAL ONE-LINE DIAGRAM - ELECTRICAL SERVICE #1

SCALE: NTS

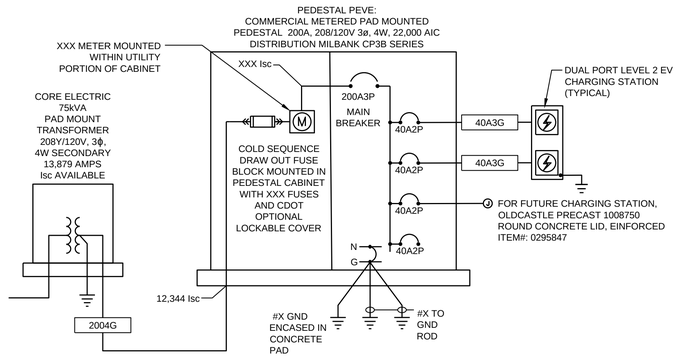
1 E-500



MULTI-PURPOSE EV ELECTRICAL ONE-LINE DIAGRAM - ELECTRICAL SERVICE #2

SCALE: NTS SITE SOUTHWEST

2 E-500



BALLFIELD EV ELECTRICAL ONE-LINE DIAGRAM - ELECTRICAL SERVICE #3

SCALE: NTS SITE EAST

3 E-500

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ARCHITECTURE

LANDSCAPE ARCHITECTURE

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INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number:	223072.00
Sheet Issue Date:	2025-05-02
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Checked By:	HFR

Key Map

Drawing

ELECTRICAL ONE-LINE DIAGRAMS

E-500

SITE PLAN SUBMITTAL
Page 299 of 313

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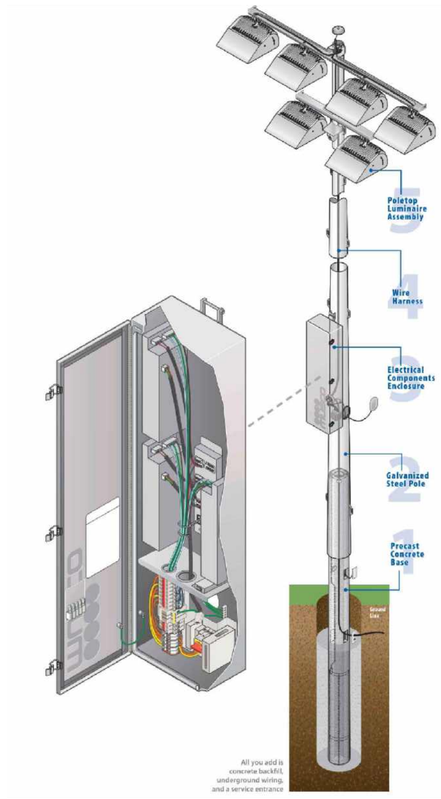
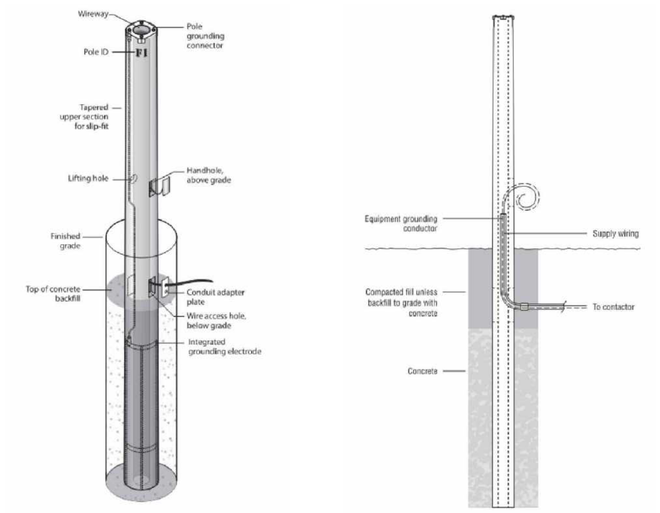
THE LINE SHOWN ABOVE IS 1" LONG ON ORIGINAL ARCH D SHEETS ORIGINAL PAGE SIZE

THE SQUARES ABOVE ARE COLOR: WITH BLACK-AND-WHITE TOTAL & PRINT FIDELITY

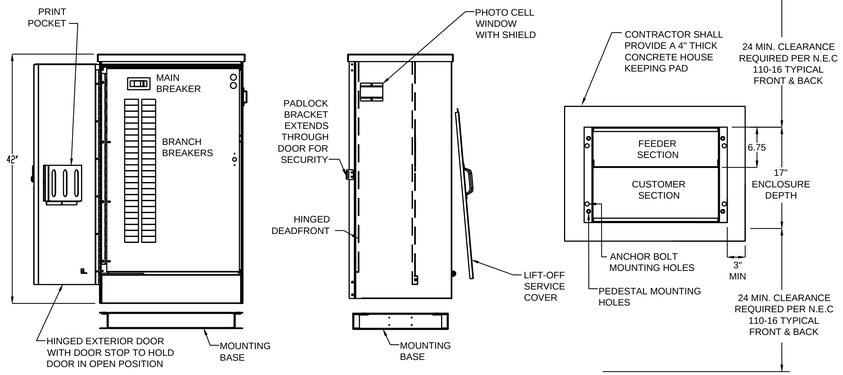




MUSCO POLE INSTALLATION INFORMATION

SCALE: NONE

8 / E-501

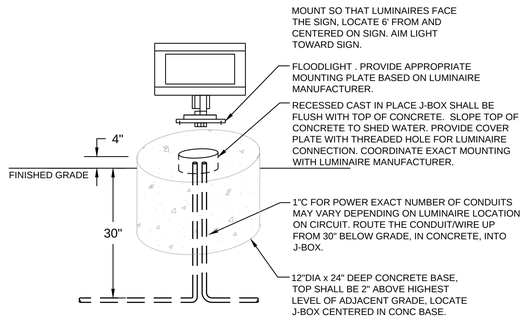


COMMERCIAL NON-METERED PEDESTAL BY MILBANK OR EQUIVALENT
CP3B SERIES 50A3P MAIN BREAKER, 42-POLE BRANCH CIRCUIT PANEL, 100A COPPER BUS, 208Y/120V, 3ϕ, 4-WIRE, 22KAIC

PEDESTAL PS1 - INSTALLATION DETAIL

SCALE: NTS

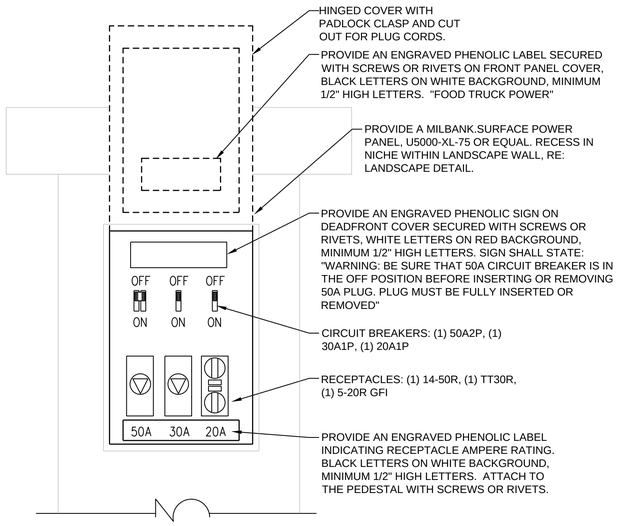
5 / E-501



SIGN LIGHT MOUNTING DETAIL

SCALE: N/A

6 / E-501

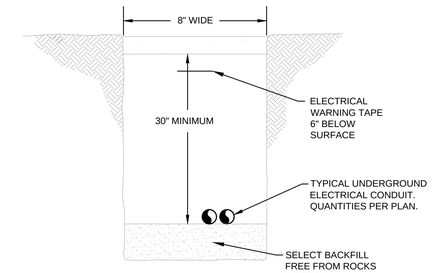


TYPICAL FOOD TRUCK POWER PANEL CONFIGURATION DETAIL

SCALE: NTS

REFER TO LANDSCAPE MOUNTING DETAIL ON L-504 FOR MORE INFO.

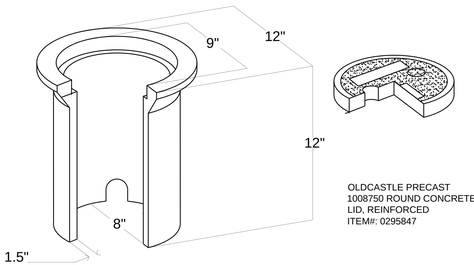
7 / E-501



TYPICAL CONDUIT TRENCH DETAIL

SCALE: NTS

1 / E-501

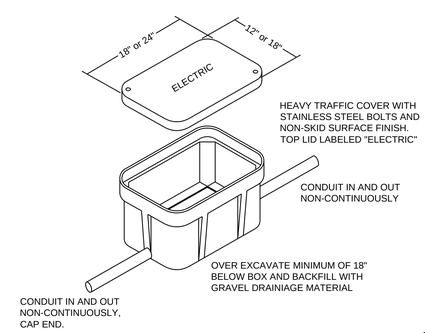


POLYMER-CONCRETE JUNCTION BOX DETAIL

SCALE: NTS

FOR FUTURE EV CHARGING STATION

2 / E-501

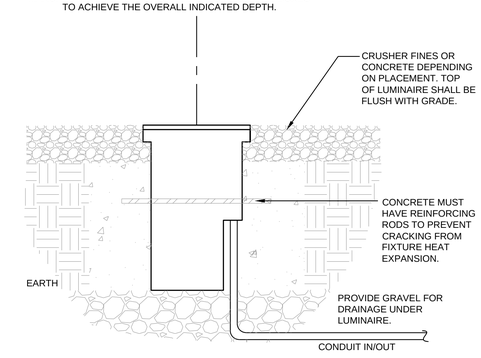


TYPICAL FLUSH WITH GRADE PULL BOX DETAIL

SCALE: NTS

TYPICAL POWER FEEDER PULLBOX (18"x24"x36"DEEP) QUAZITE PG STYLE SERVICE BOX WITH HEAVY DUTY BOLT ON COVER AS MANUFACTURED BY STRONGWELL. STACK MULTIPLE BOXES TO ACHIEVE THE OVERALL INDICATED DEPTH.

3 / E-501



FLAG POLE UPLIGHT MOUNTING DETAIL

SCALE: NONE

4 / E-501

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number:	223072.00
Sheet Issue Date:	2025-05-02
Drawn By:	AEI
Checked By:	HFR

Key Map

Drawing

ELECTRICAL DETAILS

E-501

SITE PLAN SUBMITTAL
Page 300 of 313

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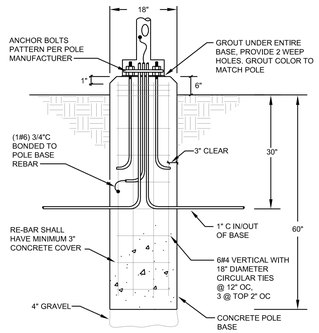
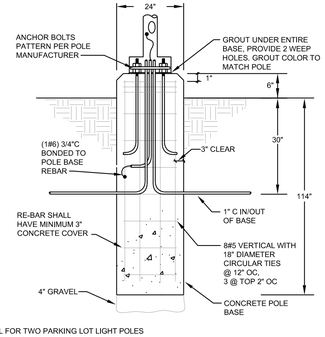


PEDESTRIAN LIGHT POLE BASE

SCALE: NONE

10 / E-502

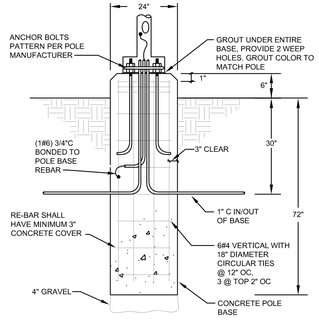


POLE BASE DETAIL FOR TWO PARKING LOT LIGHT POLES IN SOUTHWEST PARKING LOT NEAR STORM DRAINS

PARKING LOT POLE BASE DETAIL - NO JBOX
TWO PARKING LOT POLES IN SW PARKING LOT

SCALE: NONE

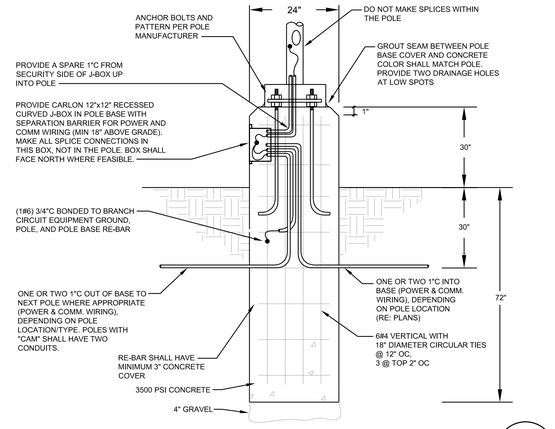
7 / E-502



PARKING LOT POLE BASE DETAIL - NO JBOX

SCALE: NONE

4 / E-502

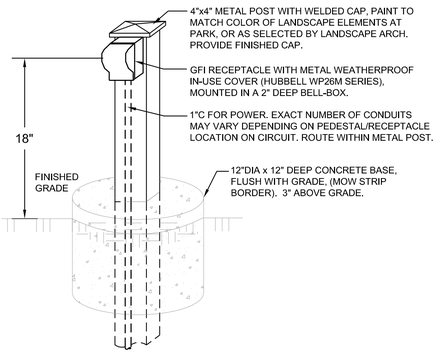


PARKING LOT POLE BASE DETAIL - CARLON JBOX

SCALE: NONE

FOR LUMINAIRE POLE BASES WHERE CAMERAS ARE TO BE MOUNTED ON LIGHT POLES.

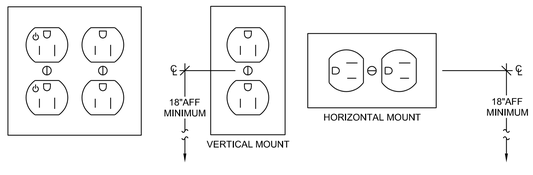
1 / E-502



POST MOUNT RECEPTACLE DETAIL

SCALE: NONE

8 / E-502

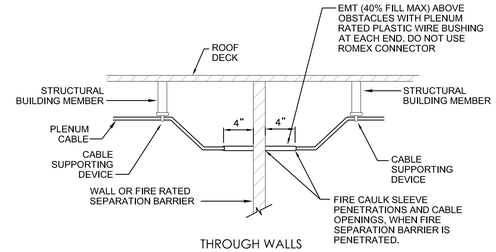


NOTE: ALL RECEPTACLES SHALL BE INSTALLED WITH THE GROUND POLES LOCATED AT THE TOP WHEN OUTLETS ARE VERTICALLY MOUNTED AND TO THE LEFT WHEN MOUNTED HORIZONTALLY AS SHOWN ABOVE.
CONTROLLED RECEPTACLES SHALL INCLUDE MANUFACTURER'S CONTROL LABEL.

RECEPTACLE INSTALLATION DETAIL

SCALE: NONE

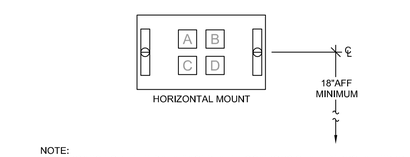
5 / E-502



PLENUM RATED CABLE INSTALLATION DETAIL

SCALE: NONE

2 / E-502

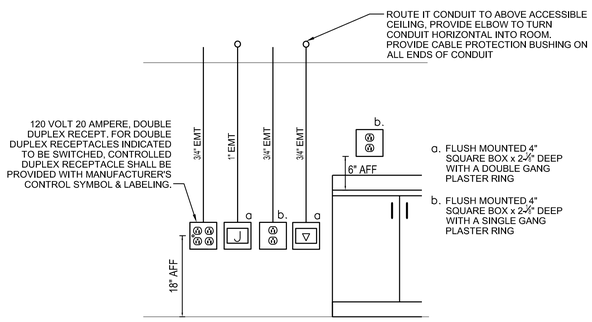


NOTE:
BACK BOXES FOR TELE-DATA FACEPLATE LOCATIONS SHALL BE INSTALLED IN HORIZONTAL ORIENTATION.

TYPICAL I.T. FACEPLATE INSTALLATION DETAIL

SCALE: NONE

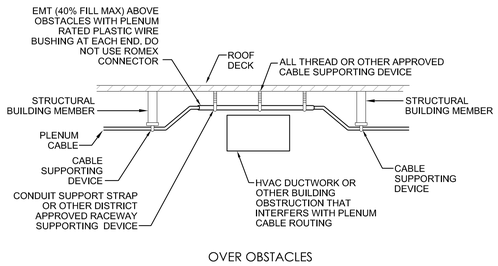
9 / E-502



TYPICAL DEVICE ROUGH-IN INSTALLATION DETAIL

SCALE: NONE

6 / E-502



OVER OBSTACLES

PLENUM PLENUM RATED CABLE INSTALLATION DETAIL

SCALE: NONE

3 / E-502

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LANDSCAPE ARCHITECTURE
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Key Map

Drawing

ELECTRICAL DETAILS

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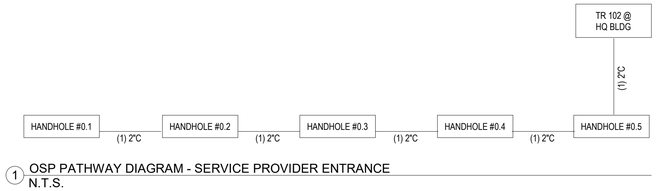
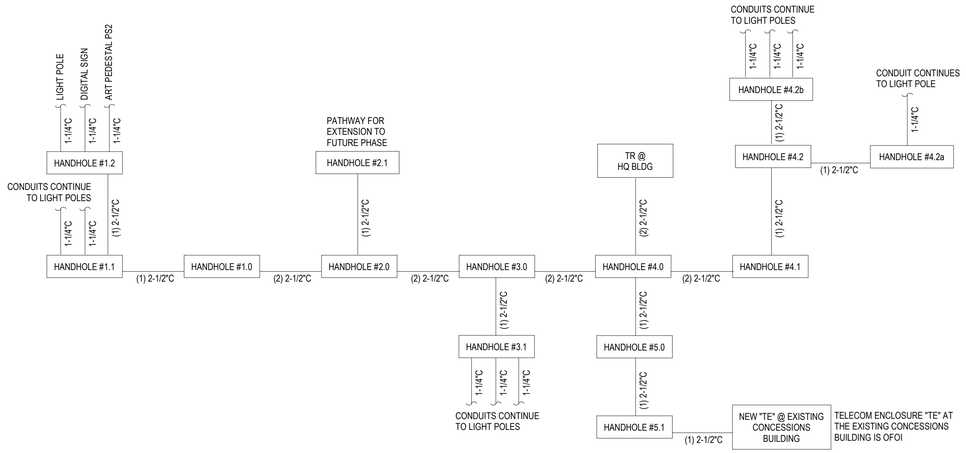


1 OSP PATHWAY DIAGRAM - SERVICE PROVIDER ENTRANCE
N.T.S.



2 OSP PATHWAY DIAGRAM - TOP UC PATHWAYS
N.T.S.

Communications Cable Distribution Schedule

Location A	Location B	Service Entrance Cable	MM Fiber OM4	Notes
HANDHOLE 0.1	TR @ HQ BLDG (MDF)	Service Entrance Cables by SERVICE PROVIDER		1,2
TR @ HQ BLDG (MDF)	TR @ HUB Building		12-strand, rated for installation in underground duct	3
TR @ HQ BLDG (MDF)	TE @ Existing Concession Bldg		12-strand, rated for installation in underground duct	3
TR @ HQ BLDG (MDF)	Digital Monument Sign		6-strand, rated for installation in underground duct	3
TR @ HQ BLDG (MDF)	Art Enclosure Pedestal PS2		6-strand, rated for installation in underground duct	3

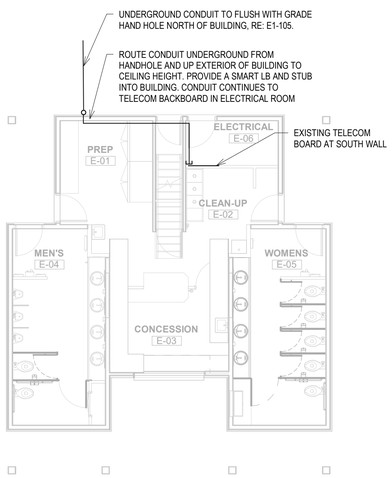
Notes:
- Refer to Town of Parker Information Technology Department Infrastructure Design Standards for addition information.

1. SERVICE PROVIDER to provide service entrance cables using Town of Parker (TOP) provided underground OSP pathways.<
2. TOP to provide 2"C and handholes for use by SERVICE PROVIDER . <
3. Contractor shall provide and install Multimode OM4 fiber for use by TOP. All fiber strands shall be fully terminated using LC type connectors at Location A and Location B. <

Telecom Handhole Schedule

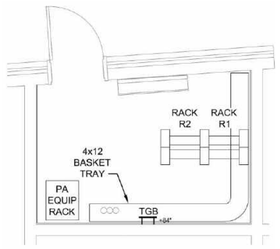
HANDHOLE I.D.	BASIS OF DESIGN	DESCRIPTION	NOTES
TELECOM #0.1 #0.2 #0.3 #0.4 #0.5	QUAZITE PG STYLE	POLYMER CONCRETE ASSEMBLY, 24" X 36" X 24" DEEP, TIER 22 RATED BOX: PG2436BA24, TIER 22 RATED COVER WITH BOLTS: PG2436HH0042 "TELECOM"	1
COMMUNICATIONS #4.0	QUAZITE PG STYLE	POLYMER CONCRETE ASSEMBLY, 24" X 36" X 24" DEEP, TIER 22 RATED BOX: PG2436BA24, TIER 15 RATED SPLIT COVER: PG2436HS0012	2
COMMUNICATIONS #1.0 #1.1 #2.0 #3.0 #4.1	QUAZITE PG STYLE	POLYMER CONCRETE ASSEMBLY, 17" X 30" X 24" DEEP, TIER 22 RATED. BOX: PG1730BA24, COVER: PG1730HH0012	2
COMMUNICATIONS #1.2 #2.1 #3.1 #4.2 #4.2a #4.2b #5.0 #5.1	QUAZITE PG STYLE	POLYMER CONCRETE ASSEMBLY, 13" X 24" X 24" DEEP, TIER 22 RATED. BOX: PG1324BA24, COVER: PG1324HH0012	2

Notes:
- Refer to Town of Parker Information Technology Department Infrastructure Design Standards for addition information. <
- Communications conduits shall turn up into bottom of handhole(s) with conduit openings located 6" above grade located at bottom of box at box interior. <
- Underground Communication (UC) conduits that are routed below concrete slab(s) into telecom room(s) shall be PVC coated GRC. <
- Install 400# rated pull lines in all OSP Communications and Security conduits. Pull lines shall have factory applied length markings. <
- Provide COPPER TRACER WIRE for all underground Telecom and Communications pathways. <
1. The polymer concrete handhole covers for the Telco UC Service Entrance pathway shall be factory labeled "TELECOM" <
2. The polymer concrete handhole covers for the T.O.P. UC telecommunications pathways shall be factory labeled "COMMUNICATIONS" <



4 EXISTING CONCESSIONS BUILDING ELECTRICAL PLAN
1/8" = 1'-0"

EXISTING TELECOM BOARD IN EXISTING CONCESSIONS BLDG



3 TR102 @ HQ BUILDING (MDF)
1" = 4'-0"

TELECOM ROOM GENERAL NOTES

- WALLS SHALL BE COVERED WITH 3/4" THICK, 4' WIDE x 8' HIGH AC-GRADE PLYWOOD BACKBOARDS ON ALL WALLS, UNLESS NOTED OTHERWISE. PLYWOOD SHALL BE MOUNTED WITH A-SIDE OUT. BACKBOARDS SHALL NOT BE PAINTED.
- 12" WIDE X 4" TALL BASKET STYLE CABLE TRAY SHALL BE INSTALLED ALONG ROOM PERIMETER WALLS AND ABOVE THE LINEUP OF EQUIPMENT RACK(S). CABLE TRAY SHALL BE LOCATED 6" ABOVE TOP OF RACKS, TYPICAL.
- PROVIDE RADIUS DROPOUT DEVICES TO ROUTE CABLING INTO EQUIPMENT RACK VERTICAL WIRE MANAGERS.
- POWER RECEPTACLE OUTLETS FOR EQUIPMENT RACKS SHALL BE MOUNTED TO THE OUTSIDE OF THE CABLE TRAY, OR ON A UNISTRUT FRAME ABOVE THE RACKS, SITUATED SO AS NOT TO INTERFERE WITH CABLE TRAY OR ROUTING OF CABLING.
- CONTRACTOR SHALL INSTALL TELECOMMUNICATIONS GROUNDING BUSBARS IN EACH TELECOM ROOM, WITH BONDING CONDUCTORS TO SERVING ELECTRICAL PANEL AND BUILDING STEEL. RE: TIA-607-D.
- PROVIDE AT LEAST ONE 208V/30A CIRCUIT FOR TR EQUIPMENT RACKS.
- PROVIDE AT LEAST ONE SECURITY CAMERA IN EACH TR.
- TOWN OF PARKER STANDARD IS SUPERIOR ESSEX CATEGORY 6 UTP CABLING, TERMINATED IN ORTRONICS CLARITY-6 PATCH PANELS.
- PROVIDE ORTRONICS MIGHTY-MO 2-POST RACKS WITH 6.4 INCH CHANNEL DEPTH, AND 6" VERTICAL WIRE MANAGERS INSTALLED ON BOTH SIDES OF RACK.
- ALL FACEPLATES FOR TELECOMMUNICATIONS SHALL BE MOUNTED HORIZONTALLY AND TRIMMED WITH 4-PORT FACEPLATES.
- REFER TO DOCUMENT "TOWN OF PARKER INFORMATION TECHNOLOGY DEPARTMENT INFRASTRUCTURE DESIGN STANDARDS" FOR ADDITIONAL INFORMATION.

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Drawn By: CH
Checked By: AEI

Key Map

Drawing
TELECOMMUNICATION SPACES & CONNECTIVITY

E-503

SITE PLAN SUBMITTAL

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4/29/2025 6:30:31 PM

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1 2 3 4 5

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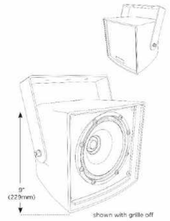
AND WHITE LETTER, IF PRINTED CORRECTLY

COMMUNITY R Series

R.15COAX



Speaker PA (Typical)
N.T.S.

SOUND SYSTEM EQUIPMENT SCHEDULE - HEADQUARTERS BUILDING

DEVICE	MANUFACTURER	MODEL NO.	NOTES
FLOOR STANDING EQUIPMENT RACK, WITH: • LOCKING FRONT DOOR, VENTED/OPEN REAR • LOCKING REMOVABLE SIDE PANELS • TOP PANEL • CASTER BASE	MIDDLE ATLANTIC	MRK-2426, WITH VENTED FRONT DOOR LVFD-24, VENTED REAR DOOR MW-VLRD-24, SIDE PANELS SPN-24-267, TOP PANEL, CASTER BASE CBS-MRK-26	NOTE 2
3 RU UTILITY DRAWER	MIDDLE ATLANTIC	UD3	NOTE 2
3 RU RACK MOUNT VENTED SHELF	MIDDLE ATLANTIC	U3V	NOTE 2
BLUETOOTH RECEIVER, DESK MOUNTED	GALAXY AUDIO	JIB/BT8R	NOTE 1, QUAN (1)
HANDHELD MICROPHONE, WIRED, W/SWITCH	SHURE	SM58 MICROPHONE WITH ON/OFF SWITCH	QUAN (2)
MIC STAND - DESKTOP	GATOR	GFW-MIC-0601	QUAN (2)
XLR MICROPHONE CABLE 25' XLR MICROPHONE CABLE 10'	PRO CO	EXM-25 (25-FOOT) EXM-10 (10-FOOT)	QUAN (2) QUAN (2)
DESKTOP MIC/LINE AUDIO MIXER	RDL	RU-MX4LT	NOTE 1, QUAN (1)
RACK MOUNTED MIXER	BEHRINGER	RX1202FX	NOTE 2
SIGNAL PROCESSOR	SHURE	DFR22EQ	NOTE 2
POWER AMPLIFIER, 2-CHANNEL	CROWN	CDi1000	NOTE 2
LOUDSPEAKER - 70V	COMMUNITY	R.15COAX	QUAN (6)
POWER SEQUENCER, 120V/20A	FURMAN	CN-2400S, WITH RS-1 REMOTE SWITCH	NOTE 3
16/2 AWG LOUDSPEAKER WIRE	ANY SUITABLE MANUFACTURER		
22 AWG SHIELDED SIGNAL CABLE	PRO CO, OR EQUIVALENT		

NOTES:

INFORMATION PROVIDED IS PROGRAMMATIC AND MAY NOT INCLUDE ALL ANCILLARY EQUIPMENT. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES, INTERCONNECTS, AND COMPONENTS NECESSARY FOR A FULLY OPERATIONAL SYSTEM READY FOR THE OWNERS USE. POWER, MOUNTING, CABLE MANAGEMENT, AND OTHER MISCELLANEOUS COMPONENTS REQUIRED FOR A FULLY FUNCTIONING SYSTEM ARE ASSUMED AND SHALL BE PROVIDED BY THE CONTRACTOR.

1. LOCATE DEVICE AT USER LOCATION. COUNTERTOP AT OFFICE 1-01. COORDINATE EXACT PLACEMENT WITH OWNER/ARCHITECT.
2. LOCATE DEVICE AT PA SYSTEM HEAD END LOCATION.
3. MOUNT REMOTE POWER ON/OFF SWITCH IN OFFICE 1-01.

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p. 303.444.1951

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3000 Youngfield Street, #264
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p. 303.986.2175

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ENVISION Mechanical Engineers, Inc.
9777 Pyramid Court, #260
Englewood, CO 80112
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Town of Parker

SALISBURY REGIONAL PARK - PHASE 1

11700 MOTSENBOCKER RD
PARKER, CO 80134

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 223072.00
Sheet Issue Date: 2025-05-02
Drawn By: CH
Checked By: HFR

Key Map

Drawing

SOUND SYSTEMS

E-504

SITE PLAN SUBMITTAL

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4/29/2025 6:30:31 PM

Parker Salisbury Park Luminaire Schedule

Key	Wattage, LED Color	Delivered Lumens	Driver & Dimming	Description	Finish	Mount	Specification: Manufacturer	Specification: Catalog Number	Specification: Volt	Max Input Wattage	Notes
A	28W LED 4000K 80 CRI	3450	0-10V 1% DIM	RECESSED 2x4 LED FLAT PANEL, BACK-LIT SMOOTH DIFFUSE OPAL LENS, INTEGRAL DRIVER	STANDARD WHITE	RECESSED <2" DEEP	COLUMBIA METALUX LITHONIA	CBT24-A-LSCS-EDD	120	30	
B	36W LED 4000K 80 CRI	1200 PER FOOT	0-10V 1% DIM	WALL MOUNTED LED LUMINAIRE, 3"W x 4'L, HIGH IMPACT FROST DR ACRYLIC LENS, INTEGRAL DRIVER	STANDARD BY ARCH	WALL ABOVE VANITY RE: ARCH ELEV	KENALL FAILSAFE OR EQUAL	MLHA3-48-F-XX-FA-1200LF-40K8-DIM1-DV-	120	36	
C	34W LED 4000K 80 CRI	4250	0-10V NON-DIM	ENCLOSED AND GASKETED 4' LONG VAPOR-TIGHT, RIBBED FROSTED ACRYLIC LENS, STAINLESS STEEL CLIPS, INTEGRAL DRIVER	STANDARD WHITE	SURFACE / PENDANT RE: DWGS	COLUMBIA METALUX LITHONIA	LXEM4-40LW-RFA--ED-U	120	35	
D	19W 4000K 80 CRI	1520	0-10V 1% DIM	RECESSED 4" DIA VANDAL DOWNLIGHT, REGRESSED LEDs, HIGH ABUSE RATED, FLUSH LENS, INTEGRAL DRIVER	CLEAR DIFFUSE REFL WHITE TRIM	RECESSED 6" DEEP	LUMINAIRE LED OR APPR EQ	VRDL4-GB-MIN1-ZT-1500LM-MD-40K-80CRI-MVOLT-CPL-AMF	120	20	
X1	LEDs INCLUDED	N/A	N/A	EMERGENCY BATTERY LUMINAIRE, TWO ADJUSTABLE HEADS, NICAD BATTERY, INTEGRAL TEST SWITCH	WHITE	WALL ABOVE DOOR	COMPASS SURELITES LITHONIA	CU2	120	N/A	
AA2	114W LED 4000K 70 CRI	16600	0-10V NON-DIM	**PARKER STANDARD: PARKING LOT POLE** LUMINAIRE, SINGLE HEAD, FULL CUT-OFF B3-U0-G3, TYPE 2 DIST, 22.5' TALL STRAIGHT ROUND POLE	BLACK	25' POLE ON 6" CONC BASE	GARDCO LYTEPOLE	P26-64L-600-NW-G2-AR-2-UNV-BK 401-5011-25'-AB-D1-TBK-CO	UNV	120	4
AA2-CAM	114W LED 4000K 70 CRI	16600	0-10V NON-DIM	**PARKER STANDARD: SAME AS TYPE AA2,** EXCEPT SHORTER POLE, WITH SECOND HANDHOLE AT 12.5' FROM BASE (15' AFG)	BLACK	22.5' POLE ON 2'-6" CONC BASE	GARDCO LYTEPOLE	P26-64L-600-NW-G2-AR-2-UNV-BK 401-5011-22.5'-AB-D1-TBK-CO 2ND HANDHOLE AS NOTED	UNV	120	2, 4
AA3	114W LED 4000K 70 CRI	16060	0-10V NON-DIM	**PARKER STANDARD: SAME AS TYPE AA2,** EXCEPT TYPE 3 DIST	BLACK	25' POLE ON 6" CONC BASE	GARDCO LYTEPOLE	P26-64L-600-NW-G2-AR-3-UNV-BK 401-5011-25'-AB-D1-TBK-CO	UNV	120	4
AA3-CAM	114W LED 4000K 70 CRI	16060	0-10V NON-DIM	**PARKER STANDARD: SAME AS TYPE AA3,** EXCEPT SHORTER POLE, WITH SECOND HANDHOLE AT 12.5' FROM BASE (15' AFG)	BLACK	22.5' POLE ON 2'-6" CONC BASE	GARDCO LYTEPOLE	P26-64L-600-NW-G2-AR-3-UNV-BK 401-5011-22.5'-AB-D1-TBK-CO 2ND HANDHOLE AS NOTED	UNV	120	2, 4
AA4	114W LED 4000K 70 CRI	16670	0-10V NON-DIM	**PARKER STANDARD: SAME AS TYPE AA2,** EXCEPT TYPE 4 DIST	BLACK	25' POLE ON 6" CONC BASE	GARDCO LYTEPOLE	P26-64L-600-NW-G2-AR-4-UNV-BK 401-5011-25'-AB-D1-TBK-CO	UNV	120	4
AA4-CAM	114W LED 4000K 70 CRI	16670	0-10V NON-DIM	**PARKER STANDARD: SAME AS TYPE AA4,** EXCEPT SHORTER POLE, WITH SECOND HANDHOLE AT 12.5' FROM BASE (15' AFG)	BLACK	22.5' POLE ON 2'-6" CONC BASE	GARDCO LYTEPOLE	P26-64L-600-NW-G2-AR-4-UNV-BK 401-5011-22.5'-AB-D1-TBK-CO 2ND HANDHOLE AS NOTED	UNV	120	2, 4
AA3-4	114W LED 4000K 70 CRI PER HEAD	16060 & 16670	0-10V NON-DIM	**PARKER STANDARD: SAME AS TYPE AA** SERIES, EXCEPT DOUBLE HEAD POLE LUMINAIRE (180 DEG MTG), ONE TYPE 3 AND ONE TYPE TYPE 4 DIST	BLACK	25' POLE ON 6" CONC BASE	GARDCO LYTEPOLE	P26-64L-600-NW-G2-AR-(1) 3 & (1) 4 DIST-UNV-BK 401-5011-25'-AB-D2@180-TBK-CO	UNV	240 TOTAL	4
BB2	35W LED 4000K 70 CRI	3740	0-10V NON-DIM	**PARKER STANDARD: POST TOP PEDESTRIAN** LUMINAIRE, DECORATIVE HEAD, FULL CUT-OFF, B1-U0-G1, 12' TALL ROUND ST POLE	BLACK	12' RND ST POLE ON CONC BASE	AAL	PROV2-36L-295-4K7-2-BLS-STND-MNT-UNV POLE: PR4-4R12-226-BLS	UNV	35	4
BB2R	35W LED 4000K 70 CRI	3740	0-10V NON-DIM	**PARKER STANDARD: SAME AS TYPE BB2,** EXCEPT PROVIDE GFI RECEPTACLE WITH METAL WEATHERPROOF IN-USE COVER 10" DOWN FROM TOP OF POLE	BLACK	12' RND ST POLE ON CONC BASE	AAL	PROV2-36L-295-4K7-2-BLS-STND-MNT-UNV POLE: PR4-4R12-226-BLS RECEPT IN POLE @ 11'-2"AFG	UNV	35	4
BB3	35W LED 4000K 70 CRI	3600	0-10V NON-DIM	**PARKER STANDARD: SAME AS TYPE BB2,** EXCEPT TYPE 3 DIST	BLACK	12' RND ST POLE ON CONC BASE	AAL	PROV2-36L-295-4K7-3-BLS-STND-MNT-UNV POLE: PR4-4R12-226-BLS	UNV	35	4
BB3R	35W LED 4000K 70 CRI	3600	0-10V NON-DIM	**PARKER STANDARD: SAME AS TYPE BB3** EXCEPT PROVIDE GFI RECEPTACLE WITH METAL WEATHERPROOF IN-USE COVER 12" DOWN FROM TOP OF POLE	BLACK	12' RND ST POLE ON CONC BASE	AAL	PROV2-36L-295-4K7-3-BLS-STND-MNT-UNV POLE: PR4-4R12-226-BLS RECEPT IN POLE @ 11'-2"AFG	UNV	35	4
BB5RS	35W LED 4000K 70 CRI	3670	0-10V NON-DIM	**PARKER STANDARD: SAME AS TYPE BB5R,** EXCEPT SHORTER POLE, RECEPTACLE AT 10" BELOW TOP OF POLE (INSTALLED IN RAISED PLANTER)	BLACK	10.5' RND ST POLE ON CONC BASE	AAL	PROV2-36L-295-4K7-5W-BLS-STND-MNT-UNV POLE: PR4-4R10.5-226-BLS RECEPT IN POLE @ 9'-8"	UNV	35	4
CC	74W LED 4000K 70 CRI	10400	0-10V NON-DIM	SPORT POLE MOUNTED LED AREA LIGHT, FULL CUT-OFF CAST ALUM HSNG, TYPE 3 DIST, MATCH TYPE AA# LUMINAIRE HEAD	BY ARCH	ARM TO SPORT POLE +20' AFG	GARDCO	P26-48L-500-NW-G2-AR-3-UNV ARM MOUNT TO SPORT POLE	UNV	75	3
DD	19W LED 4000K 80 CRI	1520	0-10V 1% DIM	RECESSED 4" DIA VANDAL DOWNLIGHT, REGRESSED LEDs, HIGH ABUSE RATED, FLUSH LENS, INTEGRAL DRIVER, DAMP LOC	CLEAR DIFFUSE BLACK TRIM	RECESSED 6" DEEP	LUMINAIRE LED OR APPR EQ	VRDL4-GB-MIN1-ZT-1500LM-MD-40K-80CRI-MVOLT-CPL-BLK	120	20	
FF	22W LED 4000K 80 CRI	23000	0-10V 1% DIM BLUETOOTH	INGRADE FLAG POLE UPLIGHT, FLAT LENS, BLUETOOTH CNTRL, REBAR CAGE, 10" DIA	STAINLESS STEEL	RECESSED FLUSH WITH GRADE	KIM OR APROVE EQ	LTV82-SS-SP-18L-4K-UV-SR-RCA82	UNV	20	
HH	16W LED 4000K 70 CRI	2000	NON-DIM	GROUND MOUNTED SIGN LIGHT, WIDE-NARROW DIST, CAST ALUM HOUSING,	BRONZE	ON FLUSH WITH GRADE CONC	KIM HYDREL	LSP-LSCS	UNV	25	
KK	48W LED 4000K 70 CRI	4000 500 LM/FT	NON-DIM	WALL MOUNTED 8' LINEAR SIGN LIGHT, CAST ALUM HSNG, 12" ARMS, REMOTE DRIVER WET LOCATION, AIM DOWNWARD	BLACK	WALL, ARM ABOVE SIGNAGE	COLE LTG KIM OR APROVE EQ	SL-8-ARM/STR (12")-WP	UNV	25 PER 4'	1
LL	31W LED RGBW 3000K	900	DMX	10" DIA. FLUSH INGROUND ADJ UPLIGHT. 13" RECESS HOUSING DEPTH. 60DEG BEAM, INTERNAL LOUVER, CLEAR/ANTI-SLIP LENS. FIXTURES DAISY CHAINED. PROVIDE RJ45 CABLE FOR APP CONTROL CAPABILITIES.	BRUSHED SS	INGROUND	LUMENPULSE	LBIL-WO-120/277-MRGBW40K-WFL-CL-INTL-DMX/RDM-FLN-SSB-RBO-ASL / PCBX / LBI-IBOX-L / CBX-DS-DMX/RDM / LID / LTO2 RJ45	UNV	40	5

Not all parts and pieces may be identified in the catalog number. It shall be the Contractor's and Supplier/Manufacturer's responsibility to ensure all necessary parts, pieces, and hardware are provided with the luminaire for a complete installation.

Notes:
1. Remote driver above accessible ceiling or within plenum of space behind wall. Provide label on driver "Sign Lighting Driver".
2. Pole to have provisions for future camera mounting. Handhole mid-pole height to accommodate future wiring access for security camera. Concrete base with Carlon box.
3. E.C. to provide luminaire head. Sport Court manufacturer shall provide mounting bracket.
4. Provide metal bolt base cover over pole base anchor bolts.
5. Provide start-up comissioning by Lumenpulse.

Name: **PMPF - Multi Purpose - Alt 1** | Volt: **480/277** | Ph: **3** | Wire: **4** | Mnt Method: **Surface** | Bus Rating: **225** | Main Breaker: **125** | AIC Rating: **10,000**

	Code	Description	Load	Bkr	P	Ph A	Ph B	Ph C	P	Bkr	Load	Description	Code	
			VA								VA			
1	1	Ltg S1W Field	7020	20	3	*			3	20	7020	Ltg S1E Field	1	2
3		-----		/			*			/		-----		4
5		-----		/				*		/		-----		6
7	1	Ltg S2 Field	7020	20	3	*			3	20	7020	Ltg S4E Field	1	8
9		-----		/			*			/		-----		10
11		-----		/				*		/		-----		12
13	1	Ltg S3 Field	7020	20	3	*			3	20	7020	Ltg S5 Field	1	14
15		-----		/			*			/		-----		16
17		-----		/				*		/		-----		18
19	1	Ltg S4W Field	7020	20	3	*			3	20	7020	Ltg S6 Field	1	20
21		-----		/			*			/		-----		22
23		-----		/				*		/		-----		24
25		SPARE		20	1	*			1	20		SPARE		26
27		SPARE		20	1		*		1	20		SPARE		28
29		SPARE		20	1			*	1	20		SPARE		30
31		SPARE		20	1	*			1	20		SPARE		32
33		SPARE		20	1		*		1	20		SPARE		34
35		SPARE		20	1			*	1	20		SPARE		36
37		Space		-		*				-		Space		38
39		Space		-			*			-		Space		40
41		Space		-				*		-		Space		42

Code	Description	Load VA	Dem
1	Lighting	**56160**	125%
2	Rec up to 10,000		100%
	Rec over 10,000		50%
3	Motor		100%
	Largest Motor		125%
4	Heater		100%
5	Kitchen		100%
6	Miscellaneous		100%
7	Sub Panel		100%

Load Summary

Per	Phase	
Ph A	**18720**	VA
Ph B	**18720**	VA
Ph C	**18720**	VA
Conn...		**56160** VA
Code	Demand	**70200** VA
Code	Demand	**84.54** Amps

Name: **PBBF - Baseball - Base Bid** | Volt: **480/277** | Ph: **3** | Wire: **4** | Mnt Method: **Surface** | Bus Rating: **600** | Main Breaker: **600** | AIC Rating: **22,000**

	Code	Description	Load	Bkr	P	Ph A	Ph B	Ph C	P	Bkr	Load	Description	Code	
			VA								VA			
1	1	Ltg A1 Field 1	4960	20	3	*			3	20	4960	Ltg A2 Field 1	1	2
3		-----		/			*			/		-----		4
5		-----		/				*		/		-----		6
7	1	Ltg B1 Field 1	7010	20	3	*			3	20	7010	Ltg B2 Field 1	1	8
9		-----		/			*			/		-----		10
11		-----		/				*		/		-----		12
13	1	Ltg C1 Field 1	5840	20	3	*			3	20	5840	Ltg C2 Field 1	1	14
15		-----		/			*			/		-----		16
17		-----		/				*		/		-----		18
19	1	Ltg A3 Field 2	4960	20	3	*			3	20	4960	Ltg A4 Field 2	1	20
21		-----		/			*			/		-----		22
23		-----		/				*		/		-----		24
25	1	Ltg B3 Field 2	7590	20	3	*			3	20	7590	Ltg B4 Field 2	1	26
27		-----		/			*			/		-----		28
29		-----		/				*		/		-----		30
31	1	Ltg C3 Field 2	7000	20	3	*			3	20	7000	Ltg C4 Field 2	1	32
33		-----		/			*			/		-----		34
35		-----		/				*		/		-----		36
37	1	Ltg A5 Field 3	4960	20	3	*			3	20	4960	Ltg A6 Field 3	1	38
39		-----		/			*			/		-----		40
41		-----		/				*		/		-----		42
43	1	Ltg B5 Field 3	7590	20	3	*			3	20	7590	Ltg B6 Field 3	1	44
45		-----		/			*			/		-----		46
47		-----		/				*		/		-----		48
49	1	Ltg C5 Field 3	7000	20	3	*			3	20	7000	Ltg C6 Field 3	1	50
51		-----		/			*			/		-----		52
53		-----		/				*		/		-----		54
55	1	Ltg A7 Field 4	3210	20	3	*			3	20	3210	Ltg A8 Field 4	1	56
57		-----		/			*			/		-----		58
59		-----		/				*		/		-----		60
61	1	Ltg B7 Field 4	4380	20	3	*			3	20	4380	Ltg B8 Field 4	1	62
63		-----		/			*			/		-----		64
65		-----		/				*		/		-----		66
67	1	Ltg C7 Field 4	3210	20	3	*			3	20	3210	Ltg C8 Field 4	1	68
69		-----		/			*			/		-----		70
71		-----		/				*		/		-----		72
73	1	Ltg Lum heads-Zn g	675	20	1	*			3	20	6000	EWH-1	4	74
75		SPARE		20	1	*				/				76
77		SPARE		20	1		*			/				78
79	3	Panel PMPF	70200	150	3	*			3	150	92208	Panel PHQRR HQ Bldg	7	80
81		(Alternate 1)		/			*			/		-----		82
83				/				*		/		-----		84
85	1	Ltg NE Prkg-Sec	960	20	3	*			2	20	315	Ltg SW & W Ped-Sec	1	86
87	1	Ltg NE Prkg-Gen	840	/			*			/	315	Ltg SW & W Ped-Gen	1	88
89	6	NE Prkng Camera	200	/				*	3	20	720	Ltg West Drive-Sec	1	90
91	1	Ltg SE Drive-Sec	480	20	3	*				/	600	Ltg West Drive-Gen	1	92
93	1	Ltg SE Drive-Gen	720	/			*			/	200	West Drv-Cameras	6	94
95	6	SE Drive Camera	200	/				*	3	20	720	Ltg SW Prkng-Sec	1	96
97	1	Ltg N Ped-Sec	350	20	2	*				/	600	Ltg SW Prkng-Gen	1	98
99	1	Ltg N Ped-Gen	280	/			*			/	200	SW Prkng-Cameras	6	100
101	1	Ltg S Ped-Sec	350	20	2			*	1	20		SPARE		102
103	1	Ltg S Ped-Gen	385	/		*			1	20		SPARE		104
105		SPARE		20	1		*		1	20		SPARE		106
107		SPARE		20	1			*	1	20		SPARE		108
109		Space		-		*				-		Space		110
111		Space		-			*			-		Space		112
113		Space		-				*		-		Space		114
115		Space		-		*				-		Space		116
117		Space		-			*			-		Space		118
119		Space		-		*				-		Space		120
121	7	Pedestal PS1	15000	30	3	*				-		Space		122
123		Via Trans TPS1		/			*			-		Space		124
125				/				*		-		Space		126

Code	Description	Load VA	Dem
1	Lighting	**143730**	125%
2	Rec up to 10,000		100%
	Rec over 10,000		50%
3	Motor		100%
	Largest Motor	**70200**	125%
4	Heater	**6000**	100%
5	Kitchen		100%
6	Miscellaneous	**800**	100%
7	Sub Panel	**107208**	100%

Load Summary

Per	Phase	
Ph A	**108418**	VA
Ph B	**107568**	VA
Ph C	**107411**	VA
Connected		**327937.75** VA
Code	Demand	**381420** VA
Code	Demand	**459.32** Amps

Name: **PS1** | Volt: **208/120** | Ph: **3** | Wire: **4** | Mnt Method: **Pedestal (NEMA 3R)** | Bus Rating: **100** | Main Breaker: **100** | AIC Rating:

	Code	Description	Load	Bkr	P	Ph A	Ph B	Ph C	P	Bkr	Load	Description	Code	
			VA								VA			
1	1	Ltg West Entry Sign	200	20	1	*			1	20	1000	Rec West Entry(GFI Brkr)	2	2
3	1	Pwr NW Entry Sign	400	20	1		*		1	20	1000	Rec West Entry(GFI Brkr)	2	4
5		SPARE		20	1			*	1	20	1000	Rec NW Entry(GFI Brkr)	2	6
7		SPARE		20	1	*			1	20	1000	Rec NW Entry(GFI Brkr)	2	8
9		SPARE		20	1		*			-		Space		10
11		SPARE		20	1			*		-		Space		12
13		SPARE		20	1	*				-		Space		14
15	1	Ltg Entry Art	1000	20	1		*			-		Space		16
17	1	Ltg Entry Art	1000	20	1			*	1	20	200	Time Clock Control	6	18

Code	Description	Load VA	Dem
1	Lighting	**2600**	125%
2	Rec up to 10,000	**4000**	100%
	Rec over 10,000		50%
3	Motor		100%
	Largest Motor		125%
4	Heater		100%
5	Kitchen		100%
6	Miscellaneous	**200**	100%
7	Sub Panel		100%

Load Summary

Per	Phase	
Ph A	**2200**	VA
Ph B	**2400**	VA
Ph C	**2200**	VA
Connected		**6800** VA
Code	Demand	**7450** VA
Code	Demand	**20.70** Amps

Name: **PEVSW** | Volt: **208/120** | Ph: **3** | Wire: **4** | Mnt Method: **Pedestal (NEMA 3R)** | Bus Rating: **200** | Main Breaker: **200** | AIC Rating: **22,000**

	Code	Description	Load	Bkr	P	Ph A	Ph B	Ph C	P	Bkr	Load	Description	Code	
			VA								VA			
1	6	EV Charger SW1-A	6500	40	2	*			2	40		Spare		2
3				/			*			/		(Future EV Charger)		4
5	6	EV Charger SW1-B	6500	40	2			*	2	40		Spare		6
7				/		*				/		(Future EV Charger)		8
9	6	EV Charger SW2-A	6500	40	2	*				-				10
11		(Future), J-box		/				*		-		Space		12
13	6	EV Charger SW2-B	6500	40	2	*				-		Space		14
15		(Future), J-box		/			*			-		Space		16
17		Space		-				*		-		Space		18
19		Space		-		*			1	20	500	SW MP Field Scorebrd	6	20
21		Space		-			*		1	20	500	SE MP Field Scorebrd	6	22
23		Space		-				*	1	20	1000	Irrig Control, Heat Trace	6	24

Code	Description	Load VA	Dem
1	Lighting		125%
2	Rec up to 10,000		100%
	Rec over 10,000		50%
3	Motor		100%
	Largest Motor		125%
4	Heater		100%
5	Kitchen		100%
6	Miscellaneous	**28000**	100%
7	Sub Panel		100%

Load Summary

Per	Phase	
Ph A	**10250**	VA
Ph B	**10250**	VA
Ph C	**7500**	VA
Conn...		**28000** VA
Code	Demand	**28000** VA
Code	Demand	**77.81** Amps

Name: **PEVE** | Volt: **208/120** | Ph: **3** | Wire: **4** | Mnt Method: **Pedestal (NEMA 3R)** | Bus Rating: **200** | Main Breaker: **200** | AIC Rating: **22,000**

	Code	Description	Load	Bkr	P	Ph A	Ph B	Ph C	P	Bkr	Load	Description	Code	
			VA								VA			
1	6	EV Charger E1-A	6500	40	2	*			2	40		Spare		2
3				/			*			/		(Future EV Charger)		4
5	6	EV Charger E1-B	6500	40	2			*	2	40		Spare		6
7				/		*				/		(Future EV Charger)		8
9	6	EV Charger E2-A	6500	40	2	*				-				10
11		(Future), J-box		/				*		-		Space		12
13	6	EV Charger E2-B	6500	40	2	*				-		Space		14
15		(Future), J-box		/			*			-		Space		16
17		Space		-				*		-		Space		18
19		Space		-		*				-		Space		20
21		Space		-			*			-		Space		22
23		Space		-				*		-		Space		24

Code	Description	Load VA	Dem
1	Lighting		125%
2	Rec up to 10,000		100%
	Rec over 10,000		50%
3	Motor		100%
	Largest Motor		125%
4	Heater		100%
5	Kitchen		100%
6	Miscellaneous	**26000**	100%
7	Sub Panel		100%

Load Summary

Per	Phase	
Ph A	**9750**	VA
Ph B	**9750**	VA
Ph C	**6500**	VA
Conn...		**26000** VA
Code	Demand	**26000** VA
Code	Demand	**72.25** Amps

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Town of Parker
SALISBURY REGIONAL PARK - PHASE 1
11700 MOTSENBOCKER RD
PARKER, CO 80134

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ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 223072.00
Sheet Issue Date: 2025-05-02
Drawn By: HFR
Checked By: AEI

Key Map

Drawing
ELECTRICAL SCHEDULES

E-600

SITE PLAN SUBMITTAL
Page 304 of 313

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Salisbury Multi-Purpose Field Lighting Electrical Connection & Control Schedule

	Description	Electrical Load	Volt	Ph	Branch Circuit	Feeder & Conduit	Control Contactor	Rating	Zone	Notes	Phase
S1 (Z1)	Zone 1 (Multipurpose Field 1 NE) (6) TLC-LED Luminaires	7020 VA 8.5 Amps	480	3	Pnl PMPF-1,3,5 20A3P	(3#8+1#10G) Shared 1 1/4"C	M1	30A3P	1	1,2	Base Bid
S2	Zone 1 (Multipurpose Field 1 NW) (6) TLC-LED Luminaires	7020 VA 8.5 Amps	480	3	Pnl PMPF-7,9,11 20A3P	(3#8+1#10G) 1 1/4"C	M2	30A3P	1	1,2	Base Bid
S3	Zone 1 (Multipurpose Field 1 SW) (6) TLC-LED Luminaires	7020 VA 8.5 Amps	480	3	Pnl PMPF-13,15,17 20A3P	(3#8+1#10G) 1 1/4"C	M3	30A3P	1	1,2	Base Bid
S4 (Z1)	Zone 1 (Multipurpose Field 1 SE) (6) TLC-LED Luminaires	7020 VA 8.5 Amps	480	3	Pnl PMPF-19,21,23 20A3P	(3#8+1#10G) Shared 1 1/4"C	M4	30A3P	1	1,2	Base Bid
S1 (Z2)	Zone 2 (Multipurpose Field 2 NW) (6) TLC-LED Luminaires	7020 VA 8.5 Amps	480	3	Pnl PMPF-2,4,6 20A3P	(3#8+1#10G) Shared 1 1/4"C	M5	30A3P	2	1,2	Base Bid
S5	Zone 2 (Multipurpose Field 1 NE) (6) TLC-LED Luminaires	7020 VA 8.5 Amps	480	3	Pnl PMPF-14,16,18 20A3P	(3#8+1#10G) 1 1/4"C	M6	30A3P	2	1,2	Base Bid
S6	Zone 2 (Multipurpose Field 1 SE) (6) TLC-LED Luminaires	7020 VA 8.5 Amps	480	3	Pnl PMPF-20,22,24 20A3P	(3#8+1#10G) 1 1/4"C	M7	30A3P	2	1,2	Base Bid
S4 (Z2)	Zone 2 (Multipurpose Field 2 SW) (6) TLC-LED Luminaires	7020 VA 8.5 Amps	480	3	Pnl PMPF-8,10,12 20A3P	(3#8+1#10G) Shared 1 1/4"C	M8	30A3P	2	1,2	Base Bid

Notes:

1	Remote Lighting Control System: The Lighting Control System shall control the lighting associated with each field or court independently. >
2	Route new lighting branch circuit feeders via new flush with grade pull box near panel and at each light pole. Route all new branch circuit feeders 30" below grade from panel to pull box, to Musco controller, to p...

COORDINATE EXACT REQUIREMENTS FOR ALL ELECTRICAL WORK ASSOCIATED WITH THE FIELD LIGHITNG AND CONTROL EQUIPMENT
WITH THE MANUFACTURERS' INSTALLATION REQUIREMENTS AND INSTALLING CONTRACTOR PRIOR TO ROUGH-IN.
REFER TO THE CIVIL AND LANDSCAPE ARCHITECUTURAL PLANS AND MANUFACTURER'S PHOTOMETRIC PLANS FOR ALL LIGHT POLE LOCATIONS

Salisbury Baseball Field Lighting Electrical Connection & Control Schedule

	Description	Electrical Load	Volt	Ph	Branch Circuit	Feeder & Conduit	Control Contactor	Rating	Zone	Notes	Phase
A1	Baseball Field 1 Home Plate TLC-LED Luminaires	4960 VA 6.0 Amps	480	3	Pnl PBBF-1,3,5 20A3P	(3#8+1#10G) 1 1/4"C	B1	30A3P	1	1,2	Base Bid
A1	Baseball Field 1 Home Plate (1) Type CC	75 VA 0.1 Amps	277	1	Pnl PBBF-73 20A1P	(2#10+#10G) Share A1 Conduit	B30	20A1P	6	3	Base Bid
A2	Baseball Field 1 Home Plate TLC-LED Luminaires	4960 VA 6.0 Amps	480	3	Pnl PBBF-2,4,6 20A3P	(3#8+1#10G) 1 1/4"C	B2	30A3P	1	1,2	Base Bid
A2	Baseball Field 1 Home Plate (1) Type CC	75 VA 0.1 Amps	277	1	Pnl PBBF-73 20A1P	(2#10+#10G) Share A2 Conduit	B30	20A1P	6	3	Base Bid
B1	Baseball Field 1 3rd Base TLC-LED Luminaires	7010 VA 8.4 Amps	480	3	Pnl PBBF-7,9,11 20A3P	(3#8+1#10G) 1 1/4"C	B3	30A3P	1	1,2	Base Bid
B2	Baseball Field 1 1st Base TLC-LED Luminaires	7010 VA 8.4 Amps	480	3	Pnl PBBF-8,10,12 20A3P	(3#8+1#10G) 1 1/4"C	B4	30A3P	1	1,2	Base Bid
C1	Baseball Field 1 Left Field TLC-LED Luminaires	5840 VA 7.0 Amps	480	3	Pnl PBBF-13,15,17 20A3P	(3#8+1#10G) 1 1/4"C	B5	30A3P	1	1,2	Base Bid
C2	Baseball Field 1 Right Field TLC-LED Luminaires	5840 VA 7.0 Amps	480	3	Pnl PBBF-14,16,18 20A3P	(3#8+1#10G) 1 1/4"C	B6	30A3P	1	1,2	Base Bid
A3	Baseball Field 2 Home Plate TLC-LED Luminaires	4960 VA 6.0 Amps	480	3	Pnl PBBF-19,21,23 20A3P	(3#8+1#10G) 1 1/4"C	B7	30A3P	2	1,2	Base Bid
A3	Baseball Field 2 Home Plate (1) Type CC	75 VA 0.1 Amps	277	1	Pnl PBBF-73 20A1P	(2#10+#10G) Share A3 Conduit	B30	20A1P	6	3	Base Bid
A4	Baseball Field 2 Home Plate TLC-LED Luminaires	4960 VA 6.0 Amps	480	3	Pnl PBBF-20,22,24 20A3P	(3#8+1#10G) 1 1/4"C	B8	30A3P	2	1,2	Base Bid
A4	Baseball Field 2 Home Plate (1) Type CC	75 VA 0.1 Amps	277	1	Pnl PBBF-73 20A1P	(2#10+#10G) Share A4 Conduit	B30	20A1P	6	3	Base Bid
B3	Baseball Field 2 3rd Base TLC-LED Luminaires	7590 VA 9.1 Amps	480	3	Pnl PBBF-25,27,29 20A3P	(3#8+1#10G) 1 1/4"C	B9	30A3P	2	1,2	Base Bid
B4	Baseball Field 2 1st Base TLC-LED Luminaires	7590 VA 9.1 Amps	480	3	Pnl PBBF-26,28,30 20A3P	(3#8+1#10G) 1 1/4"C	B10	30A3P	2	1,2	Base Bid
C3	Baseball Field 2 Left Field TLC-LED Luminaires	7000 VA 8.4 Amps	480	3	Pnl PBBF-31,33,35 20A3P	(3#8+1#10G) 1 1/4"C	B11	30A3P	2	1,2	Base Bid
C4	Baseball Field 2 Right Field TLC-LED Luminaires	7000 VA 8.4 Amps	480	3	Pnl PBBF-32,34,36 20A3P	(3#8+1#10G) 1 1/4"C	B12	30A3P	2	1,2	Base Bid
A5	Baseball Field 3 Home Plate TLC-LED Luminaires	4960 VA 6.0 Amps	480	3	Pnl PBBF-37,39,41 20A3P	(3#8+1#10G) 1 1/4"C	B13	30A3P	3	1,2	Base Bid
A5	Baseball Field 3 Home Plate (1) Type CC	75 VA 0.1 Amps	277	1	Pnl PBBF-73 20A1P	(2#10+#10G) Share A5 Conduit	B30	20A1P	6	3	Base Bid
A6	Baseball Field 3 Home Plate TLC-LED Luminaires	4960 VA 6.0 Amps	480	3	Pnl PBBF-38,40,42 20A3P	(3#8+1#10G) 1 1/4"C	B14	30A3P	3	1,2	Base Bid
A6	Baseball Field 3 Home Plate (1) Type CC	75 VA 0.1 Amps	277	1	Pnl PBBF-73 20A1P	(2#10+#10G) Share A6 Conduit	B30	20A1P	6	3	Base Bid
B5	Baseball Field 3 3rd Base TLC-LED Luminaires	7590 VA 9.1 Amps	480	3	Pnl PBBF-43,45,47 20A3P	(3#8+1#10G) 1 1/4"C	B15	30A3P	3	1,2	Base Bid
B6	Baseball Field 3 1st Base TLC-LED Luminaires	7590 VA 9.1 Amps	480	3	Pnl PBBF-44,46,48 20A3P	(3#8+1#10G) 1 1/4"C	B16	30A3P	3	1,2	Base Bid
C5	Baseball Field 3 Left Field TLC-LED Luminaires	7000 VA 8.4 Amps	480	3	Pnl PBBF-49,51,53 20A3P	(3#8+1#10G) 1 1/4"C	B17	30A3P	3	1,2	Base Bid
C6	Baseball Field 3 Right Field TLC-LED Luminaires	7000 VA 8.4 Amps	480	3	Pnl PBBF-50,52,54 20A3P	(3#8+1#10G) 1 1/4"C	B18	30A3P	3	1,2	Base Bid
A7	Baseball Field 4 Home Plate TLC-LED Luminaires	3210 VA 3.9 Amps	480	3	Pnl PBBF-55,57,59 20A3P	(3#8+1#10G) 1 1/4"C	B19	30A3P	4	1,2	Base Bid
A7	Baseball Field 4 Home Plate (1) Type CC	75 VA 0.1 Amps	277	1	Pnl PBBF-73 20A1P	(2#10+#10G) Share A7 Conduit	B30	20A1P	6	3	Base Bid
A8	Baseball Field 4 Home Plate TLC-LED Luminaires	3210 VA 3.9 Amps	480	3	Pnl PBBF-56,58,60 20A3P	(3#8+1#10G) 1 1/4"C	B20	30A3P	4	1,2	Base Bid
A8	Baseball Field 4 Home Plate (1) Type CC	75 VA 0.1 Amps	277	1	Pnl PBBF-73 20A1P	(2#10+#10G) Share A8 Conduit	B30	20A1P	6	3	Base Bid
B7	Baseball Field 4 3rd Base TLC-LED Luminaires	4380 VA 5.3 Amps	480	3	Pnl PBBF-61,63,65 20A3P	(3#8+1#10G) 1 1/4"C	B21	30A3P	4	1,2	Base Bid
B7	Baseball Field 4 Left Field (1) Type CC	75.0 VA 0.1 Amps	277	1	Pnl PBBF-73 20A1P	(2#10+#10G) Share B7 Conduit	B30	20A1P	6	3	Base Bid
B8	Baseball Field 4 1st Base TLC-LED Luminaires	4380 VA 5.3 Amps	480	3	Pnl PBBF-62,64,66 20A3P	(3#8+1#10G) 1 1/4"C	B22	30A3P	4	1,2	Base Bid
C7	Baseball Field 4 Left Field TLC-LED Luminaires	3210 VA 3.9 Amps	480	3	Pnl PBBF-67,69,71 20A3P	(3#8+1#10G) 1 1/4"C	B23	30A3P	4	1,2	Base Bid
C8	Baseball Field 4 Right Field TLC-LED Luminaires	3210 VA 3.9 Amps	480	3	Pnl PBBF-68,70,72 20A3P	(3#8+1#10G) 1 1/4"C	B24	30A3P	4	1,2	Base Bid
	Site Lighting Security (Zone s) (Select Parking lot and pedestrian poles)		277	1	Multiple RE: PBBF Sched	RE: PLANS	B25	20A8P	5	4	Base Bid
	Site Lighting General (Zone g) (Select Parking lot and pedestrian poles)		277	1	Multiple RE: PBBF Sched	RE: PLANS	B26	20A8P	6	4	Base Bid
	Pedestrian Light Pole Receptacles (for holiday lighting)		120	1	Multiple RE: PHQRR Sched	RE: PLANS	B27	20A4P	7	4	Base Bid
	Building Mounted Lighting Security (Select bldg lts, zone z)	260 VA 2.2 Amps	120	1	PHQRR-29 (PART) 20A1P	(2#12+#12G) 3/4"C	B28	20A2P	5	4	Base Bid
	Building Mounted Lighting General (Select bldg lts, zone y & w)	240 VA 2.0 Amps	120	1	PHQRR-29 (PART) 20A1P	(2#12+#12G) 3/4"C	B29	20A2P	6	4	Base Bid
	Site Flag Pole Lights (Zone s)	150 W 1.3	120	1	PHQRR-20 20A1P	RE: PLANS	B31	20A2P	5	4	Base Bid

Notes:

1	Remote Lighting Control System: The Lighting Control System shall control the lighting associated with each ballfield independently. >
2	Route new field lighting branch circuit feeders via new flush with grade pull box near panel and at each light pole. Route all new branch circuit feeders 30" below grade from panel to pull box, to Musco controller, to pull box at each light pole, and to light pole. >
3	Mount Type CC luminaire on backside of sports light pole, 20' AFG. Sports lighting manufacturer shall provide mounting bracket for single head mounting. Luminaire head provided by E.C., as specified on Luminaire Schedule. >
4	Provide additional lighting contactors to control the site and building lighting as indicated through the same lighting control system. >

COORDINATE EXACT REQUIREMENTS FOR ALL ELECTRICAL WORK ASSOCIATED WITH THE COURT LIGHITNG AND CONTROL EQUIPMENT
WITH THE MANUFACTURERS' INSTALLATION REQUIREMENTS AND INSTALLING CONTRACTOR PRIOR TO ROUGH-IN.
REFER TO THE CIVIL AND LANDSCAPE ARCHITECUTURAL PLANS AND MANUFACTURER'S PHOTOMETRIC PLANS FOR ALL LIGHT POLE LOCATIONS

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11700 MOTSENBOCKER RD
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ARCHITECTURE
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PLANNING
INTERIOR DESIGN

Δ	DATE	DESCRIPTION

Project Number: 223072.00
Sheet Issue Date: 2025-05-02
Drawn By: HFR
Checked By: HFR

Key Map

Drawing
ELECTRICAL SCHEDULES

E-601

SITE PLAN SUBMITTAL

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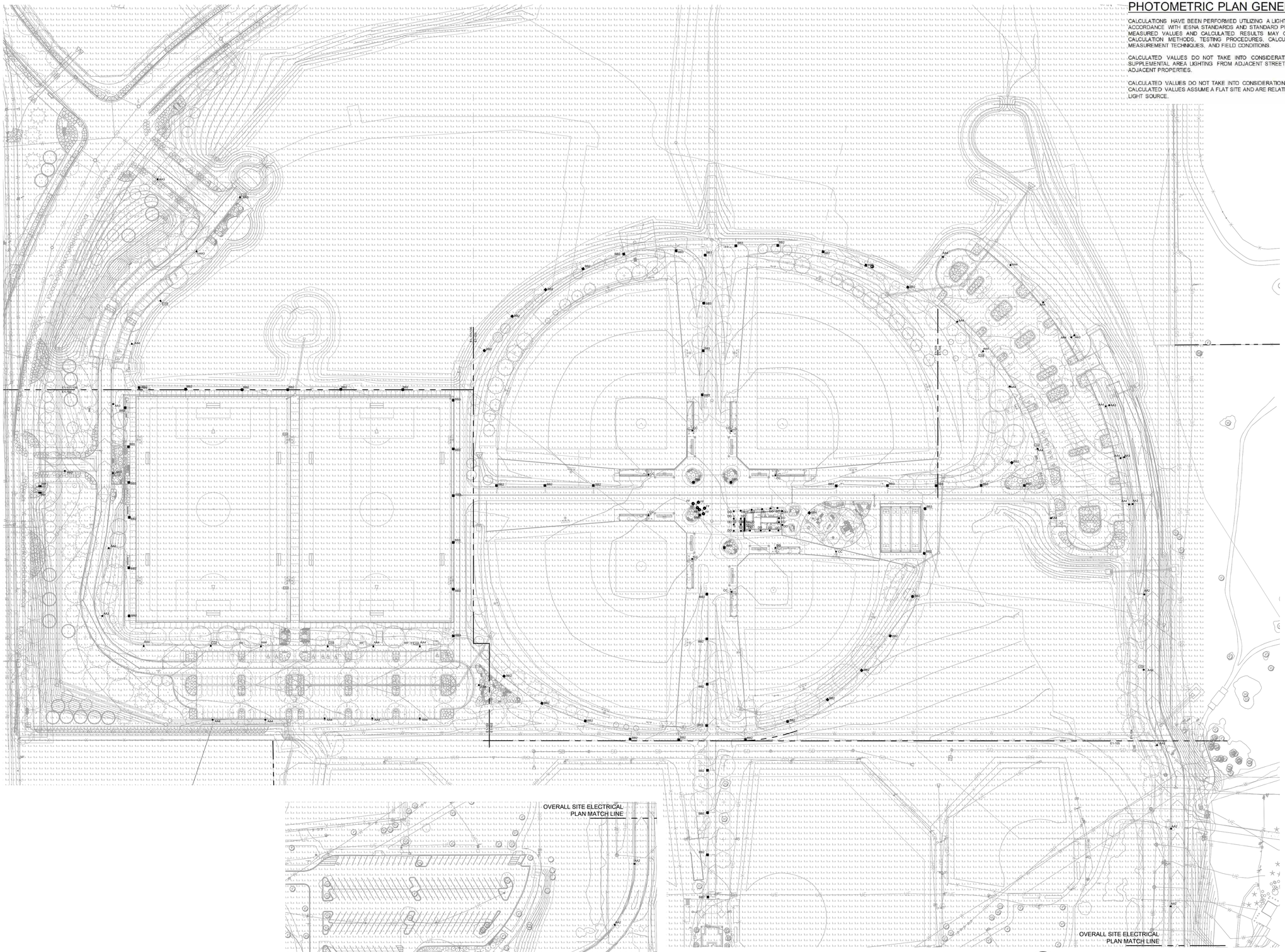
PHOTOMETRIC PLAN GENERAL NOTES

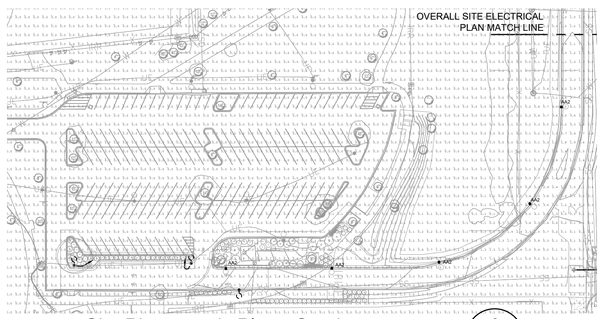
CALCULATIONS HAVE BEEN PERFORMED UTILIZING A LIGHTING CALCULATION SOFTWARE, IN ACCORDANCE WITH IESNA STANDARDS AND STANDARD PRACTICE. DIFFERENCES BETWEEN MEASURED VALUES AND CALCULATED RESULTS MAY OCCUR DUE TO TOLERANCES IN CALCULATION METHODS, TESTING PROCEDURES, CALCULATION SOFTWARE LIMITATIONS, MEASUREMENT TECHNIQUES, AND FIELD CONDITIONS.

CALCULATED VALUES DO NOT TAKE INTO CONSIDERATION AMBIENT LIGHT LEVELS OR SUPPLEMENTAL AREA LIGHTING FROM ADJACENT STREET LIGHTS OR LIGHTS LOCATED ON ADJACENT PROPERTIES.

CALCULATED VALUES DO NOT TAKE INTO CONSIDERATION THE TOPOGRAPHY OF THE SITE. CALCULATED VALUES ASSUME A FLAT SITE AND ARE RELATIVE TO THEIR DISTANCE FROM THE LIGHT SOURCE.



Site Photometric Plan
SCALE: 1" = 80'
1 EP-100B



Site Photometric Plan - South
SCALE: 1" = 80'
2 EP-100B

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Town of Parker
SALISBURY REGIONAL PARK - PHASE 1
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ARCHITECTURE
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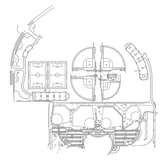
INTERIOR DESIGN

	DATE	DESCRIPTION

Project Number:	223072.00
Sheet Issue Date:	2025-05-02
Drawn By:	AEI
Checked By:	HFR

Key Map



Drawing

OVERALL SITE PHOTOMETRIC PLAN - ALTERNATES

EP-100B

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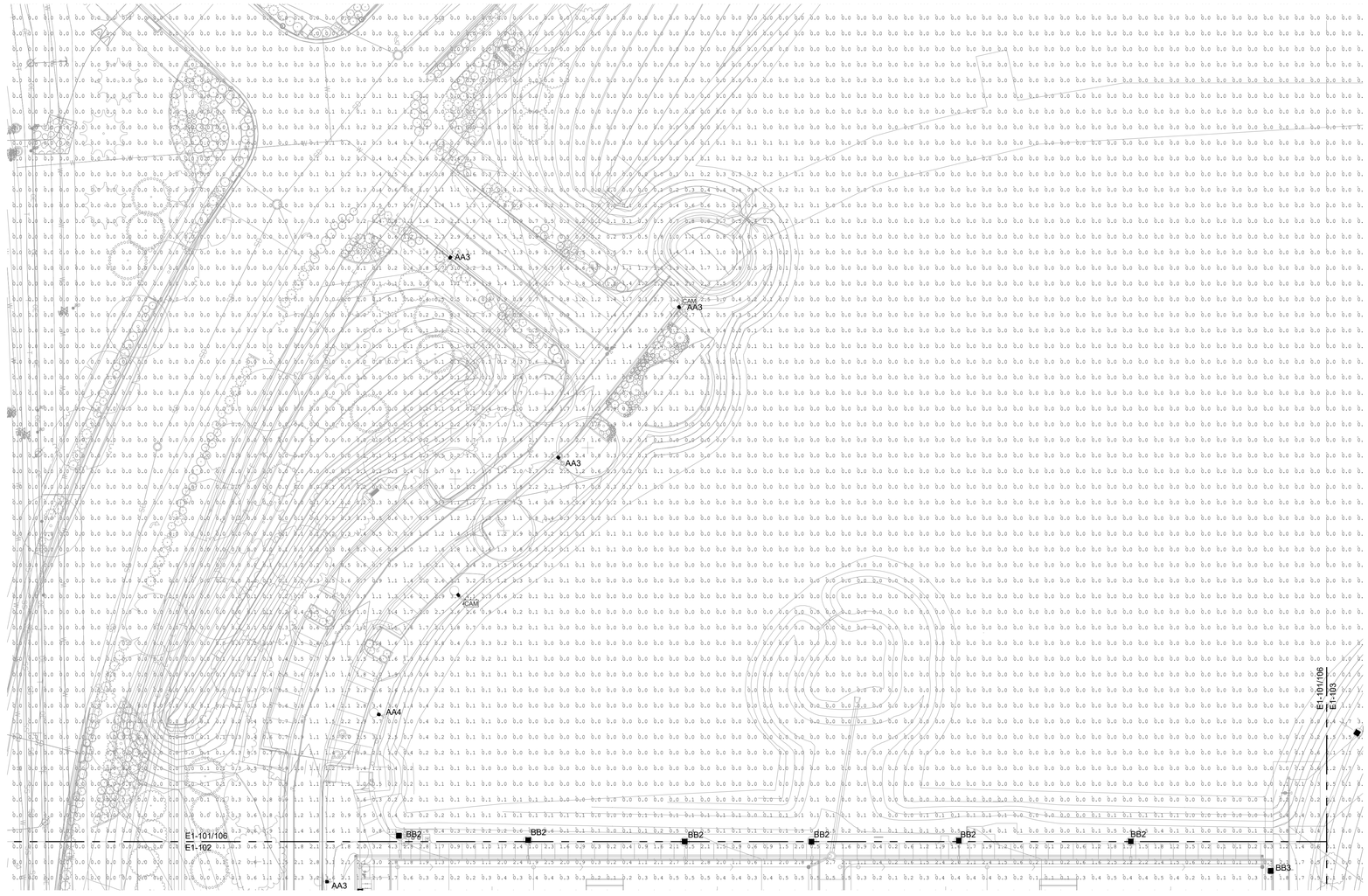

Site Photometric Plan

SCALE: 1" = 40'

0 20 40 80 120

SCALE IN FEET

1 EP-101

Luminaire Schedule								
Project: Phase 1								
Symbol	Tag	Qty	Lum. Lumens	Lum. Watts	Mounting Height	LLF	Label	Description
	AA2	10	16617	114.2447	25	0.880	Gardco-P26-64L-600-NW-G2-2	Parking lot luminaire, LED, Type 2 Dist, Black finish
	AA3	12	16069	114.2447	25	0.880	Gardco-P26-64L-600-NW-G2-3	Parking lot luminaire, LED, Type 3 Dist, Black finish
	AA4	26	16670	114.2447	25	0.880	Gardco-P26-64L-600-NW-G2-4	Parking lot luminaire, LED, Type 4 Dist, Black finish
	BB2	40	3741	34.1	14	0.880	AAL-PROV2-36L-295-4K7-2	Pedestrian luminaire, post top mount, LED, Type 2 Dist, Black finish
	BB3	21	3611	34.1	14	0.880	AAL-PROV2-36L-295-4K7-3	Pedestrian luminaire, post top mount, LED, Type 3 Dist, Black finish
	BB4	1	3642	34.1	14	0.880	AAL-PROV2-36L-295-4K7-4W	Pedestrian luminaire, post top mount, LED, Type 4 Dist, Black finish
	BB5	6	3671	34.1	14	0.880	AAL-PROV2-36L-295-4K7-5W	Pedestrian luminaire, post top mount, LED, Type 5 Dist, Black finish
	CC	9	10401	74.35753	20	0.880	Gardco-P26-48L-500-NW-G2-3	Area luminaire, mounted to sport poles, Type 3 Dist, Black finish
	DD	20	1545	19.3854	9.5, 10, 10.25, 11.5, 12.75, 13, 14.25, 14.5, 16, 16.8	0.880	Luminaire LED-VRDL4 1500LM MD 40K 80CRI CPL	Recessed LED downlight, 4in aperture, Black trim
	FF	6	1873	21	0.5	0.880	Current-LTV82FF-SP-18L4K	Ground mounted flag pole light, spot dist
	HH	2	2009	16.1	0.5	0.880	Current-LSP-LSCS-2000LM-4000K	Ground Mounted Sign Light, LED, Bronze finish
	KK(3')	3	531	10.23	12.5	0.880	Cole Ltg-SL-36-LED-LED	Wall mounted sign light, Black finish

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
North Site	Illuminance	Fc	0.29	15.2	0.0	N.A.	N.A.
South Site	Illuminance	Fc	0.18	6.0	0.0	N.A.	N.A.
Parking Lot & Drive NW	Illuminance	Fc	1.45	3.5	0.5	2.90	7.00
Parking Lot NE	Illuminance	Fc	1.57	4.3	0.3	5.23	14.33
Parking Lot SW	Illuminance	Fc	1.73	4.0	1.0	1.73	4.00
South Drive	Illuminance	Fc	1.97	5.5	0.5	3.94	11.00
South Walk	Illuminance	Fc	1.62	2.9	0.6	2.70	4.83
West Drive	Illuminance	Fc	1.58	3.6	0.6	2.63	6.00

All site light poles and luminaire heads will be black or bronze, except for the sports lighting poles. Sports light poles will be the manufacturer's standard gray.

PHOTOMETRIC PLAN GENERAL NOTES

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Site Lumens per Site Area

	Sq Ft				
North Site Area	3,292,438		General Site:	0.36	Lumens/Sq Ft
South Site Area	42,744		With Sports Lights:	7.11	Lumens/Sq Ft
Total	3,335,182	Sq Ft			

Specified Luminaires:

Luminaire Type	Lumens	Qnty Lts	Total Lumens
AA2	16617	10	166,170
AA3	16069	12	192,828
AA4	16670	26	433,420
BB2	3741	40	149,640
BB3	3611	21	75,831
BB4	3642	1	3,642
BB5	3671	6	22,026
CC	10401	9	93,609
DD	1545	20	30,900
FF	1873	6	11,238
HH	2009	2	4,018
KK	4000	3	12,000
Total:			1,195,322

Baseball Field Lighting

Luminaire Type	Total Lumens
A1	606,000.00
A2	606,000.00
B1	808,000.00
B2	808,000.00
C1	358,000.00
C2	358,000.00
A3	606,000.00
A4	952,000.00
B3	952,000.00
B4	952,000.00
C3	854,000.00
C4	854,000.00
A5	606,000.00
A6	606,000.00
B5	952,000.00
B6	952,000.00
C5	854,000.00
C6	854,000.00
A7	410,000.00
A8	410,000.00
B7	560,000.00
B8	560,000.00
C7	514,000.00
C8	514,000.00
Total	16,506,000.00

Multipurpose Fields

Luminaire Type	Total Lumens
S1	1,800,000.00
S2	900,000.00
S3	900,000.00
S4	1,800,000.00
S5	900,000.00
S6	900,000.00
Total	7,200,000.00

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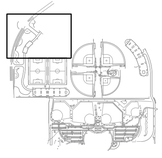
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

	DATE	DESCRIPTION

Project Number: 223072.00
Sheet Issue Date: 2025-05-02
Drawn By: AEI
Checked By: HFR

Key Map



Drawing

SITE PHOTOMETRIC PLAN

EP-101

SITE PLAN SUBMITTAL

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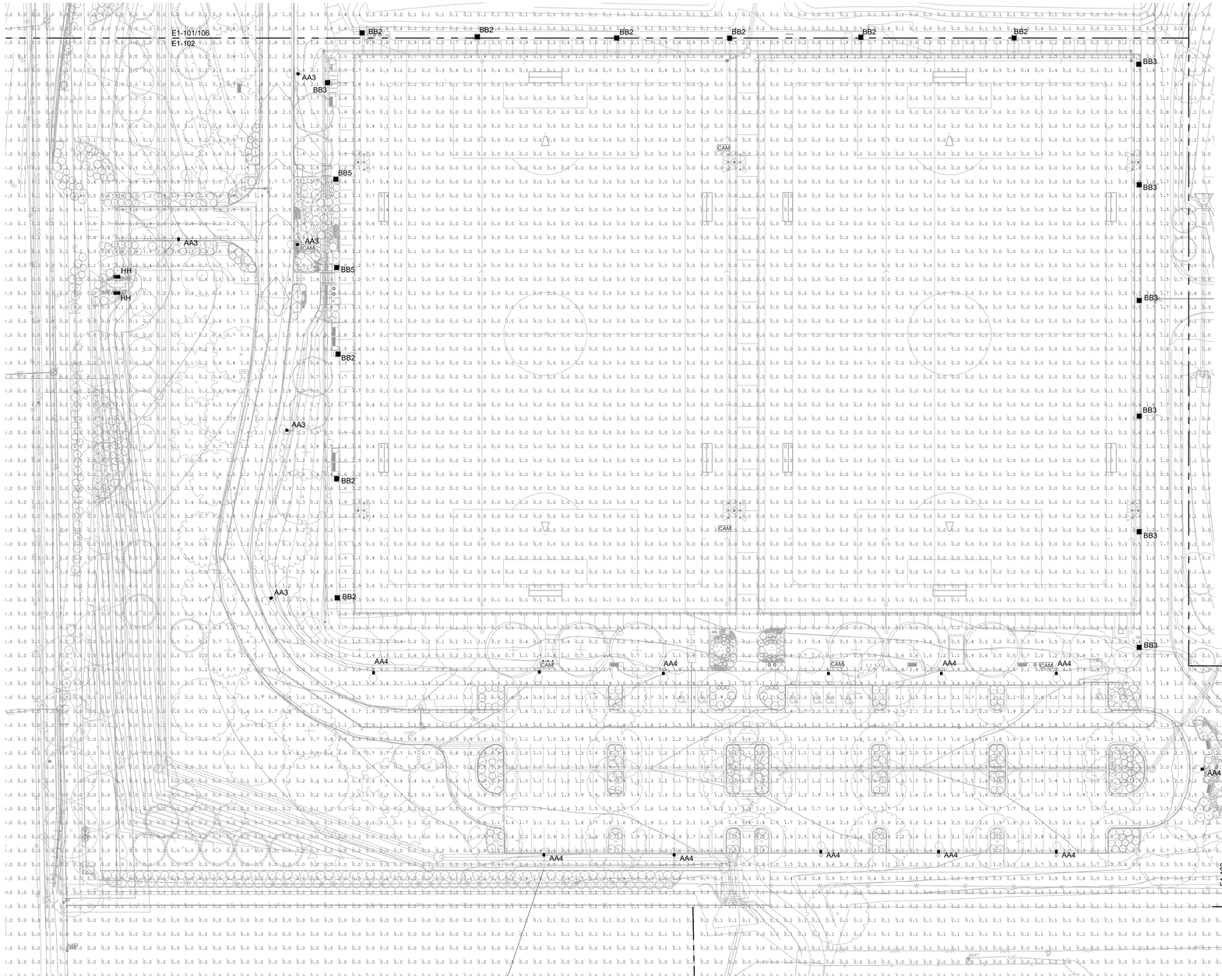

Site Photometric Plan

SCALE: 1" = 40'

0 20 40 80 120

SCALE IN FEET

1 / EP-102

PHOTOMETRIC PLAN GENERAL NOTES

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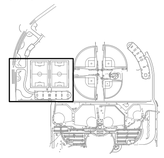

Drawing

SITE PHOTOMETRIC PLAN

EP-102

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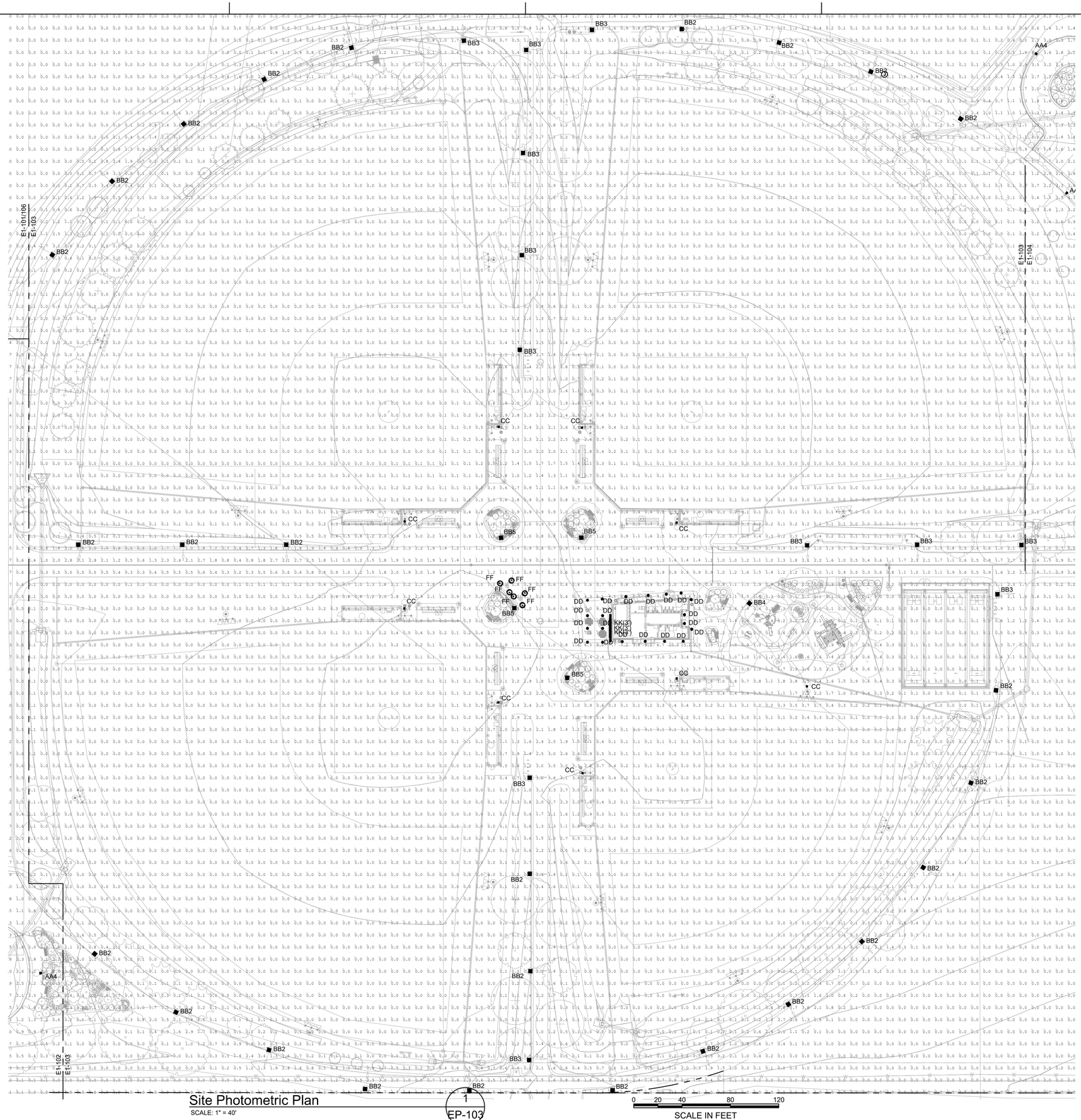

Site Photometric Plan
SCALE: 1" = 40'

1
EP-103

0 20 40 80 120
SCALE IN FEET

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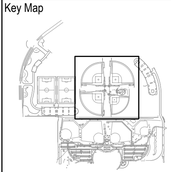

Drawing

SITE PHOTOMETRIC PLAN

EP-103

SITE PLAN SUBMITTAL

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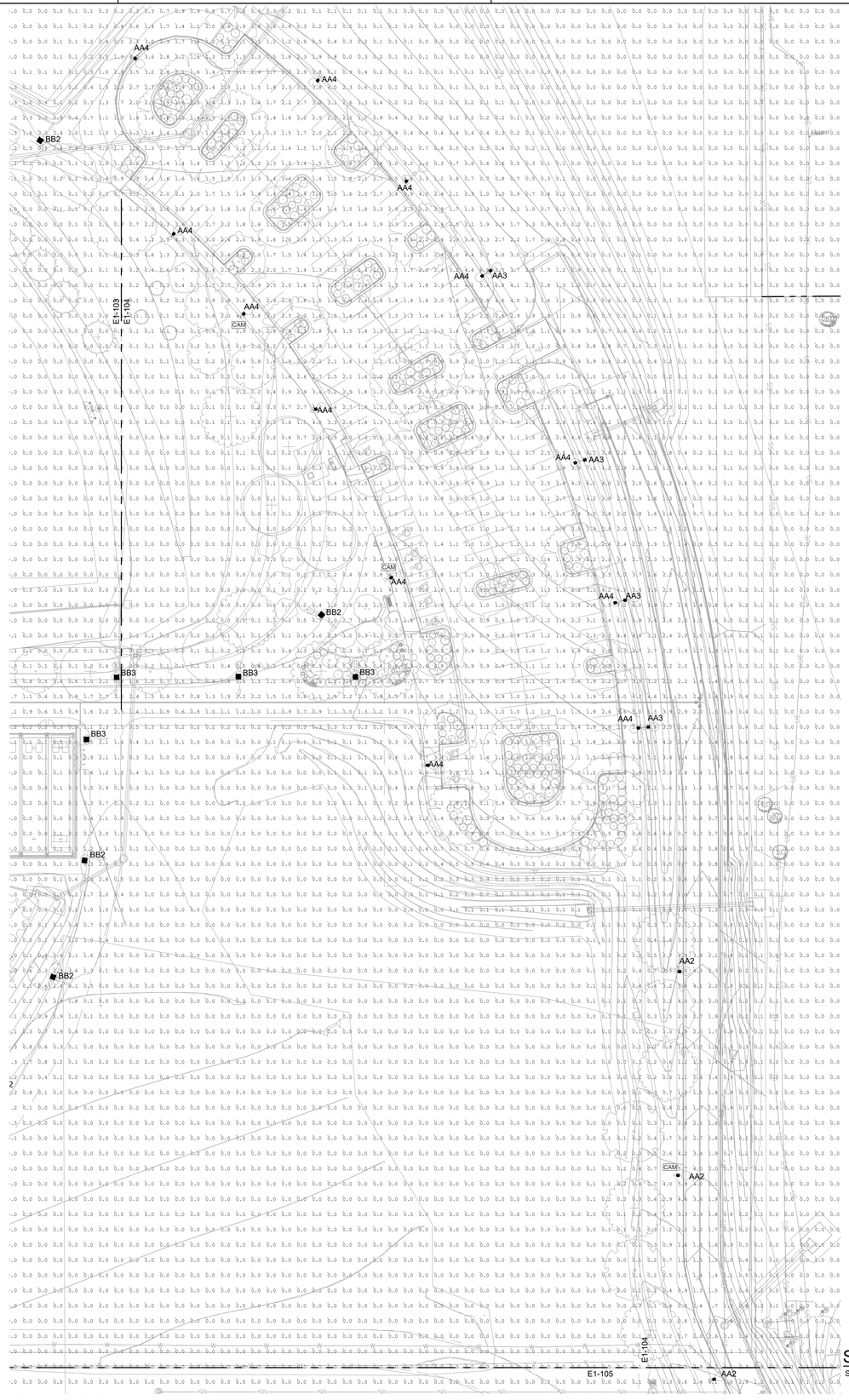

Site Photometric Plan

SCALE: 1" = 40'

0 20 40 80 120

SCALE IN FEET

1 EP-104

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LANDSCAPE ARCHITECTURE

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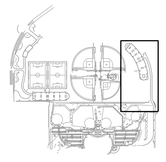

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SITE PHOTOMETRIC PLAN

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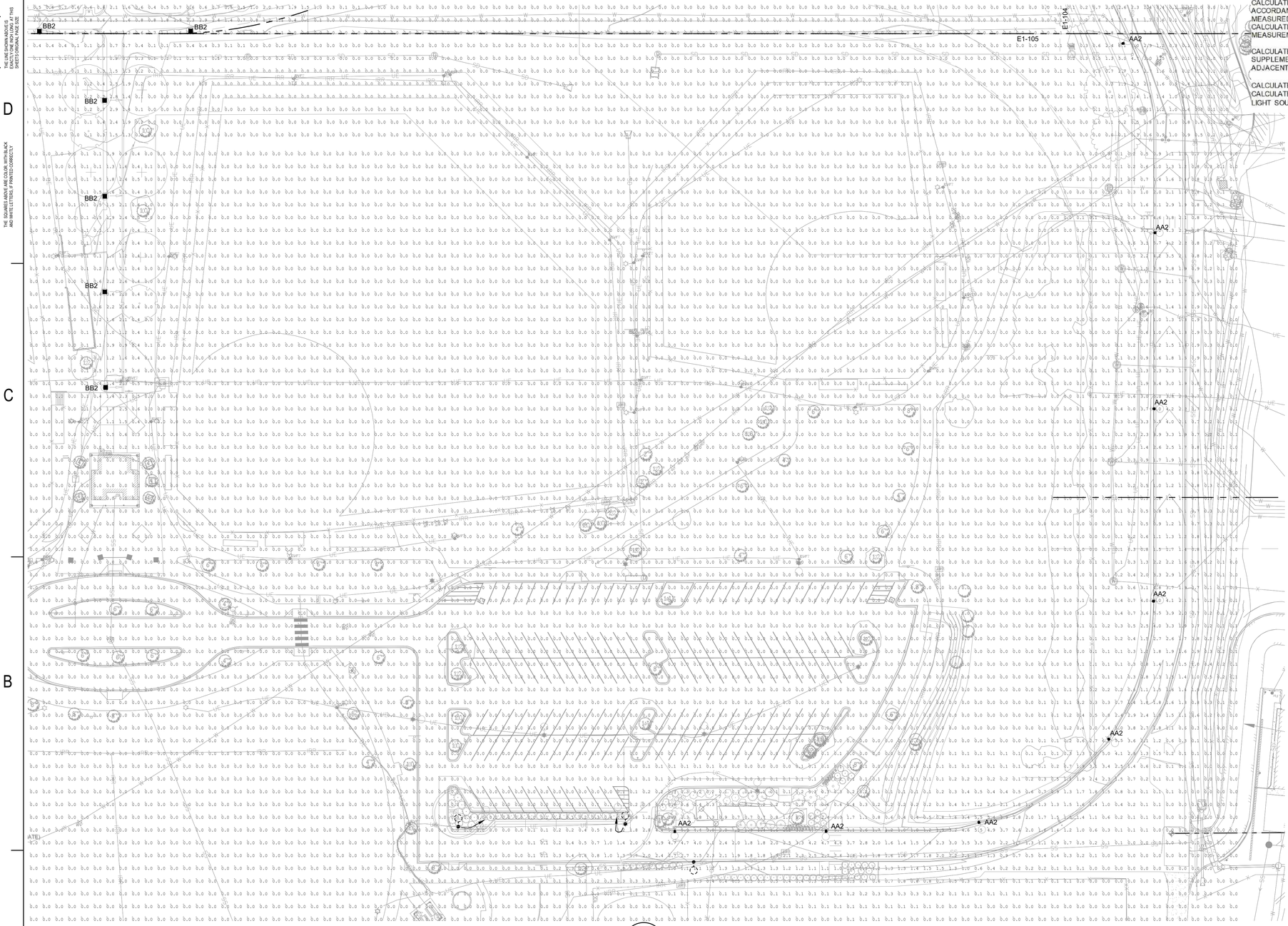

Site Photometric Plan

SCALE: 1" = 40'

0 20 40 80 120

SCALE IN FEET

1 EP-105

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INTERIOR DESIGN

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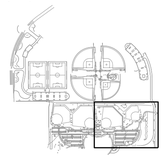

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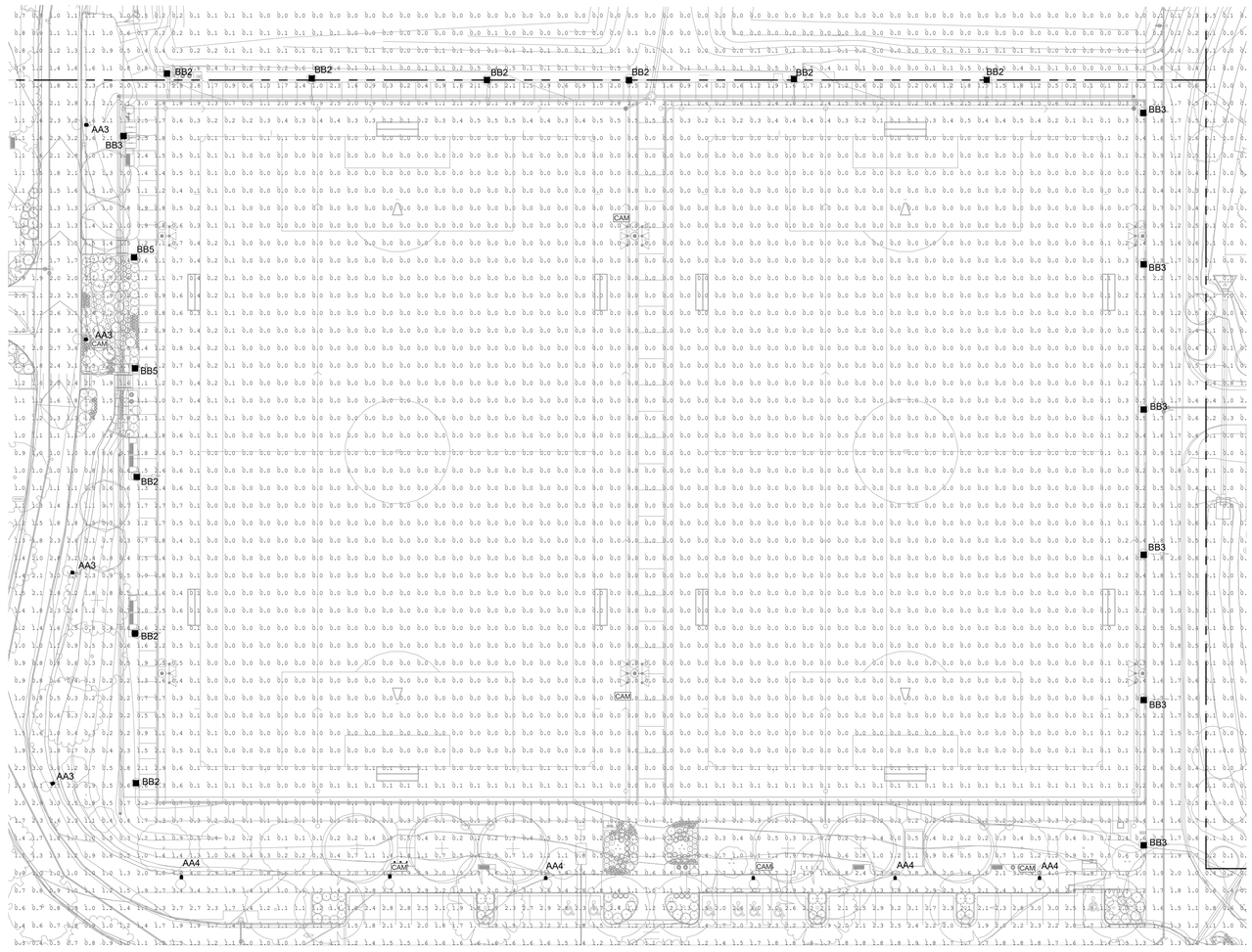

Site Photometric Plan - Alternate No. 01

SCALE: 1" = 40'

0 20 40 80 120

SCALE IN FEET

1
EP-106

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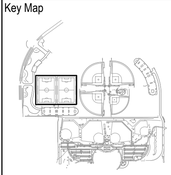

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SITE PHOTOMETRIC PLAN - ALTERNATES

EP-106

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C M Y K

D

C

B

A

1 2 3 4 5

GARDCO

Site & Area

PureForm

P26 medium area light

Type AA# Series

Gardco PureForm LED area medium P26 features a sleek, low profile design and optimal performance. PureForm area medium is designed to achieve maximum pole spacing, with lumen output up to 28,900 lumens. Multiple distribution and shielding options are available to achieve maximum control. A full range of control options provides additional energy savings.

Project: Location: Cat.No: Type: Lumens: Qty: Notes:

Ordering guide

Example: P26-64L-800-NW-G2-AR-3-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution			Voltage
P26								
P26 PureForm area medium, 26"	48L 48 LEDs (3 modules)	400 400mA	WW-G2 Warm White 3000K, 70 CRI Generation 2	AR Arm Mount (standard)[1]	Type 2	Type 5		120 120V
		500 500mA			2 Type 2	5W Type 5W		208 208V
		600 600mA	NW-G2 Neutral White 4000K, 70 CRI Generation 2	The following mounting kits must be ordered separately (See accessories)	2-90 Rotated at 90°			240 240V
		700 700mA			2-270 Rotated at 270°			277 277V
	64L 64 LEDs (4 modules)	600 600mA	CW-G2 Cool White 5000K, 70 CRI Generation 2	AFB Auto Front Row	Type 3			347 347V
		700 700mA		AFR-90 Auto Front Row, rotated at 90°	3 Type 3			480 480V
		800 800mA	WY-G2 Warm Yellow 2700K, 80 CRI Generation 2[1]	SF Slip Fitter Mount[1] (fits to 3¼" O.D. tenon)	3-90 Rotated at 90°			UNV 120-277V (50/60Hz)
	80L 80 LEDs (5 modules)	700 700mA	BW-G2 Balanced White 3500K 80 CRI Generation 2[1]	WS Wall mount with surface conduit rear entry permitted	3-270 Rotated at 270°			HVU 347-480V (50/60Hz)
		800 800mA			Type 4			
		900 900mA	AM-G2 Direct Amber (580nm) Generation 2[1,4]	RAM Retrofit arm mount kit[1,5]	4 Type 4			
					4-90 Rotated at 90°			
					4-270 Rotated at 270°			

Type BB#

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #

architectural area lighting

PROV2

ARCHITECTURAL AREA/SITE

FEATURES

- Reliable, uniform, glare free illumination
- Types 1, 2, 3, 4W, 5Q, and 5W distributions
- Amber, 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral Surge protection: 10k in parallel, 20k in series
- Upgrade Kits

PROVIDENCE®

	WEIGHT	EPA
PROV2	29 lbs / 13.15 kg	1.33

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

architectural area lighting

PROV2

ARCHITECTURAL AREA/SITE

ORDERING GUIDE

Example: PROV2-36L-325-3K7-4W-BL-SLA1-DF-HS-ADS-UNV

CATALOG #

ORDERING GUIDE

HOUSING

PROV2

Housing	LED Quantity	Lumen output	CCT/CRI	Distribution	Finish
PROV2 Providence Medium 2.0	36L 36 LED	295 458mA Microcore Equivalent	AMB Amber 595nm Peak[1]	1 Type I	BLS Black Gloss Smooth
		325 325mA, 4500 Lumens	3K7 3000K 70 CRI	2 Type II	BLT Black Matte Textured
		510 510mA, 6500 Lumens	4K7 4000K 70 CRI	3 Type III	DBS Dark Bronze Gloss Smooth
		525 700mA Microcore Equivalent	5K7 5000K 70 CRI	4W Type IV Wide	DBT Dark Bronze Matte Textured
		615 615mA, 7500 Lumens	Contact factory for options listed below	5Q Type V Square	GTT Graphite Metal Textured
			27K8 2700K, 80 CRI	5W Type V Wide	LGS Light Grey Gloss Smooth
			80 or 90 CRI for standard color temperatures		LGT Light Grey Matte Textured
					PSS Platinum Silver Gloss Smooth
					VGT Verde Green Matte Textured
					WHS White Gloss Smooth
					WHT White Matte Textured
					Color Option
					CC[4] Custom Color

Mounting	Optional Lens	Options	Mounting Options	Voltage
Pole Mount	CL Clear Lens	HS House Side Shield[4,6]	ADS Adaptor-5" OD Pole	UNV 120-277V
STND_MNT[3] Standard Mount	DL Diffused Lens[2]	PFN Brass Colored Finish	PCA-C Photocontrol Adapter Contemporary	
P123 2 3/8" tenon		SPK Cast Spikes	PCA-T Rotatable photocell housing. The housing slips over a 4"/100mm o.d. pole a fixture slips over the 4"/100mm O.D. tenon. Includes an internal twist	
PT3 3" tenon		BPS Brass Colored Studs		
PT4 4" tenon		SF Single Fuse (120, 277)		

GARDCO

Site & Area

PureForm

P26 medium area light

Type CC Series

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Project: Location: Cat.No: Type: Lumens: Qty: Notes:

Ordering guide

Example: P26-64L-800-NW-G2-AR-3-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution			Voltage
P26								
P26 PureForm area medium, 26"	48L 48 LEDs (3 modules)	400 400mA	WW-G2 Warm White 3000K, 70 CRI Generation 2	AR Arm Mount (standard)[1]	Type 2	Type 5		120 120V
		500 500mA			2 Type 2	5W Type 5W		208 208V
		600 600mA	NW-G2 Neutral White 4000K, 70 CRI Generation 2	The following mounting kits must be ordered separately (See accessories)	2-90 Rotated at 90°			240 240V
		700 700mA			2-270 Rotated at 270°			277 277V
	64L 64 LEDs (4 modules)	600 600mA	CW-G2 Cool White 5000K, 70 CRI Generation 2	AFB Auto Front Row	Type 3			347 347V
		700 700mA		AFR-90 Auto Front Row, rotated at 90°	3 Type 3			480 480V
		800 800mA	WY-G2 Warm Yellow 2700K, 80 CRI Generation 2[1]	SF Slip Fitter Mount[1] (fits to 3¼" O.D. tenon)	3-90 Rotated at 90°			UNV 120-277V (50/60Hz)
	80L 80 LEDs (5 modules)	700 700mA	BW-G2 Balanced White 3500K 80 CRI Generation 2[1]	WS Wall mount with surface conduit rear entry permitted	3-270 Rotated at 270°			HVU 347-480V (50/60Hz)
		800 800mA			Type 4			
		900 900mA	AM-G2 Direct Amber (580nm) Generation 2[1,4]	RAM Retrofit arm mount kit[1,5]	4 Type 4			
					4-90 Rotated at 90°			
					4-270 Rotated at 270°			

VRDL4

Type DD

Vandal Resistant

VRDL4 Series STWH

Fixture Type Date

Job Name Approved By

Catalog Number

66 IP RATED

SPECIFICATIONS

Description	The VRDL recessed downlight features a ligature-resistant construction suitable for behavioral institutions and vandal-prone areas.
Lens	Impact resistant polycarbonate lens with 0.25" nominal thickness. Available with patent pending flangled or flangeless (GB) trim. If IP66 rating is required, no-pick caulk (or vandal resistant equivalent caulk) is recommended. See Installation Instructions for more detail. Lens and trim secured with tamper resistant center pin reject TORX fasteners to prevent intrusion and mitigate ligature.
LED Drivers	Factory tuned constant current electronic dimming driver is standard. Flicker free dimming available down to <1%. Electrical specifications, PF >.9 and THD <20%. Meets FCC Title 47 Class A or Class B. Other available drivers include Lutron and DALI protocol drivers.
LED	Static white in 1800K, 2700K, 3000K, 3500K, 4000K, or 5000K in either 80CRI or 90CRI standard. Optional RED LED. All LED within a 2.5 step MacAdam ellipse.
Controls and System Networking Options	Optional integrated nLight® controls make each fixture addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors, and photocontrols. Connection to nLight is simple. It can be accomplished with remote nLight AIR wireless or through standard Cat-5 cabling, (cabling "by others") nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other, while nLight AIR is commissioned easily through an intuitive mobile app.
Listing	CSA certified to meet U.S. and Canadian standards (UL1598 and UL8750) and CAN/CSA C22.2 No. 250.0. Standard is wet location and IP66 @ IK10. Certified for NSF Splash Zone 2 with AMF and BSS finish. Non-IC rated.
Government Procurement	**BAA – Buy America(n) Act:** Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations. **BABA – Build America Buy America:** Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-american for additional information.
Warranty	Lifetime warranty against vandalism. Luminaire LED will repair or replace any fixture damaged due to vandalism for the lifetime of the installation. 10-year warranty on LED boards against operational defects. Tested in accordance with LM-80. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.
Note	Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

ORDERING INFORMATION

Example: VRDL4 MIN1 ZT 1500LM MD 40K 90CRI 120 CAL BLK

Series*	Mounting*	Driver*	Control Input*	Lumens*	Distribution*
VRDL4 Vandal Resistant 4" Recessed Downlight Luminaire	<BLANK> If used with Flanged or Grid (gasum Board (Sheetrock))	MIN1 Constant Current, Dimming to 1%	ZT 0-10V Dimming	<BLANK> When Selecting RED	MD Medium (1.0 s/min)
	GB[1]	DARK[2] Constant Current, Dimming to <1%	DALI DALI	1000LM 1000 lumens	WD Wide (1.2 s/min)
			ECOS[3] Lutron Ecosystem	1500LM 1500 lumens	
			NLIGHT[2,4,5,11] nLight Enabled	2000LM 2000 lumens	
			NLTAIR2[4,5,11] nLight Air 2 Wireless Enabled	2500LM 2500 lumens	
				3000LM[3,6] 3000 lumens	

CCT*	CRI*	Voltage*	Lens*	Finish*
18K[3] 1800K	<BLANK> When Selecting RED	120 120 Volt	CPL Clear Polycarbonate	AMF White Antimicrobial Finish
27K 2700K	80CRI 80 CRI	277 277 Volt	CAL Clear Acrylic	BLK Black
30K 3000K	90CRI 90 CRI	347[7,8] 347 Volt		BSS Brushed Stainless Steel
35K 3500K		MVOLT 120-277 Volt		BRZ Bronze
40K 4000K				SIL Silver
50K 5000K				CUST Custom Color, Consult Factory
RED[3,9] Red				RALTBD RALTBD

*RALTBD for pricing only. Replace with applicable RAL call out when ready to order. See the IDE BROCHURE for available options.

Emergency	Territory Compliance
EMB3310T20[2,4,7,10] Self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). Meets CA Title 20 standards	CP[1] Chicago Plenum

Fusing	EMI Filter	Controls	Mounting Hardware	Visible Hardware[11]
FUSE[1] Fuse and Fuse Holder	RFI[2] Radio Frequency Interference Filter	GTD[3,4,11] Integral Generator Transfer Device	<BLANK> For Ceilings up to 1 1/4" thick	<BLANK> TORX® Screws to Match Luminaire Finish
			CTA Ceiling Thickness Adapter	

*Required

HUME LED

IP66 RATED

DATE: PROJECT: TYPE:

CATALOG NUMBER LOGIC

*120V only

CATALOG NUMBER LOGIC

Example: HU - LED - TR - x113 - FL - BLP - 12 - 11 - A - 2 - INC - MT

MATERIAL

Aluminum

SERIES

HU - Hume Floodlight

SOURCE

LED - Cold Phosphor Technology

HOUSING

TR - Integral Driver

LED TYPE

Available with Narrow Spot Optic		Available with NFL, FL, and WFL Optics	
x105 - 36W/2.7K/80CRI	x109 - 36W/2.7K/90CRI	x113 - 34W/2.7K/80CRI	x117 - 34W/2.7K/90CRI
x106 - 36W/3K/80CRI	x110 - 36W/3K/90CRI	x114 - 34W/3K/80CRI	x118 - 34W/3K/90CRI
x107 - 36W/3.5K/80CRI	x111 - 36W/3.5K/90CRI	x115 - 34W/3.5K/80CRI	x119 - 34W/3.5K/90CRI
x108 - 36W/4K/80CRI	x112 - 36W/4k/90CRI	x116 - 34W/4K/80CRI	x120 - 34W/4K/90CRI

OPTICS

NSP - Narrow Spot (11°) NFL - Narrow Flood (25°) FL - Flood (43°) WFL - Wide Flood (56°)

FINISH (See page 2 for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WH-W, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

Also available in RAL Finishes

LENS TYPE

9 - Clear (Standard) 12 - Soft Focus 13 - Rectilinear

SHIELDING

11 - Honeycomb Baffle

CAP STYLE

A - 45°

B - 90°

C - Flush

D - 45° Less Weep Hole (Downward Aiming Only)

E - 90° Less Weep Hole (Downward Aiming Only)

KNUCKLE OPTIONS

1 - Rear Knuckle 2 - Side Knuckle

CONTROL TYPE

ELV - Dimming Driver (For use with Electronic Low Voltage Dimmer)*

INC - Dimming Driver (For use with Incandescent Dimmer)*

010 - 0-10V Dimming Driver (Dimming 1 - 100%)

INPUT VOLTAGE

MT - 120-277 VAC

OPTIONS

TE - Tamper-Resistant

B-K LIGHTING | MADE IN THE USA | 559.436.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM

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ARCHITECTURE

LANDSCAPE ARCHITECTURE

PLANNING

INTERIOR DESIGN

	DATE	DESCRIPTION

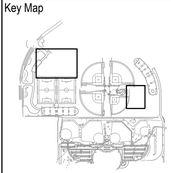
Project Number: 223072.00

Sheet Issue Date: 2025-05-02

Drawn By: AEI

Checked By: HFR

Key Map



Drawing

SITE PHOTOMETRIC LUMINAIRE SPECIFICATIONS

EP-107

SITE PLAN SUBMITTAL
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