

REPLACE COURTYARD STEPS & ADD ADA RAMP - USPFO BUILDING

IKE SKELTON TRAINING SITE JEFFERSON CITY, MISSOURI



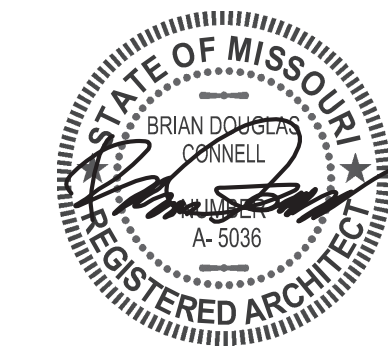
CONNELL ARCHITECTURE, P.C.
2311 East Walnut Sreet Suite B
Columbia, Missouri 65201
573-875-2455
brianconnell@connellarchitecture.com

OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR
DEPARTMENT OF NATIONAL GUARD

DESIGNER: CONNELL ARCHITECTURE, P.C.
2311 EAST WALNUT STREET SUITE B
COLUMBIA, MISSOURI 65201
PROJECT NUMBER: T2223-01

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

SITE NUMBER: 6300
ASSET NUMBER: 8136300005



7/28/2023
BRIAN DOUGLAS CONNELL ARCHITECT MO A-5036

ARCHITECTURAL CORPORATION
CERTIFICATE OF AUTHORITY: 000827
CONNELL ARCHITECTURE, P.C.
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OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION

MISSOURI ARMY
NATIONAL GUARD

REPLACE COURTYARD STEPS
& ADD ADA RAMP -
USPFO BUILDING

IKE SKELTON TRAINING SITE
7101 MILITARY CIRCLE
JEFFERSON CITY, MO 65101

PROJECT No. T2223-01
SITE No. 6300
ASSET No. 8136300005

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
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DATE: _____

ISSUE DATE: 7/28/2023

CAD DWG FILE:
T2223-01-6300-8136300005-G-001

DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:

LOCATION MAPS &
DRAWING INDEX

SHEET NUMBER:

G-001

SHEET 2 OF 11
ISSUE DATE: 7/28/2023

GENERAL NOTES:

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR TO REVIEW THE DRAWINGS TO ASSURE COORDINATION OF ALL WORK AFFECTING EACH TRADE. FAILURE TO REVIEW ALL CONTRACT DOCUMENTS FOR APPLICABLE ITEMS OF WORK SHALL NOT RELIEVE THE RESPONSIBLE PARTY FROM PERFORMING ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS.

1. DRAWINGS - THESE DRAWINGS SHALL NOT BE SCALED. REFER TO DIMENSIONS INDICATED, ACTUAL SIZES OF CONSTRUCTION ITEMS, OR OTHER RELIABLE METHODS OF LOCATING CONSTRUCTION. WHERE NO DIMENSION OR METHOD OF DETERMINING A LOCATION IS GIVEN, VERIFY CORRECT LOCATION WITH CONNELL ARCHITECTURE P.C. PRIOR TO INSTALLATION.
2. DIMENSIONS - DIMENSIONS ON PLANS ARE FROM FACE OF CONCRETE, MASONRY, OR FRAMING UNLESS OTHERWISE NOTED. DIMENSIONS INDICATED AS "CLEAR" ARE CRITICAL FOR MINIMUM REQUIRED CLEARANCES AND SHALL BE A MINIMUM DIMENSION MEASURED FROM FACE OF FINISH MATERIALS.
3. COORDINATION - GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ALL TRADES TO ALLOW FOR TIMELY INCLUSION IN THE WORK SO AS NOT TO DELAY THE WORK OR THE WORK OF ANY SUBCONTRACTOR.
4. EXISTING CONDITIONS - THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM OBSERVATIONS AND MEASUREMENTS TAKEN DURING SITE VISITS AND FROM ARCHIVE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE AND NOTIFY THE CONSTRUCTION ADMINISTRATOR OF DEVIATIONS FROM THESE DRAWINGS PRIOR TO FABRICATION AND INSTALLATION OF THE WORK.
5. PRECAUTIONS - CONTRACTOR SHALL IMMEDIATELY REPORT ANY UNFORESEEN CONDITIONS DISCOVERED IN THE WORK WHICH COULD RESULT IN DAMAGE TO THE STRUCTURE OR INJURY TO THE OCCUPANTS TO THE OWNER'S REPRESENTATIVE AND THE CONSTRUCTION ADMINISTRATOR. IMPLEMENT NECESSARY PRECAUTIONS TO PROPERLY SUPPORT THE STRUCTURE AND PROTECT THE OCCUPANTS.
6. HAZARDOUS MATERIALS - CONTRACTOR SHALL IMMEDIATELY REPORT THE DISCOVERY OF ANY HAZARDOUS MATERIALS TO THE OWNER'S REPRESENTATIVE AND CONSTRUCTION ADMINISTRATOR.
7. SITE UTILIZATION - USE OF THE SITE FOR ANY CONSTRUCTION STAGING OR OTHER OPERATIONS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND CONSTRUCTION ADMINISTRATOR. THE CONTRACTOR'S OPERATIONS SHALL NOT OBSTRUCT OR ADVERSELY AFFECT ANY PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTIES.
8. EXIT ACCESS - MAINTAIN FREE, SAFE, AND APPROVED MEANS OF EGRESS IN AND OUT OF PROJECT LOCATION AND EXISTING OCCUPIED BUILDINGS IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES.
9. CONTRACTOR SHALL FURNISH & INSTALL ALL SYSTEMS, MATERIALS, COMPONENTS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION, WHETHER OR NOT ALL SUCH MATERIALS & DETAILS OF INSTALLATION HAVE BEEN SPECIFICALLY MENTIONED OR SHOWN ON THE CONSTRUCTION DRAWINGS. ALL INSTALLATION AND DETAILS TO CONFORM TO MANUFACTURER'S WRITTEN SPECIFICATIONS AND RECOMMENDATIONS.
10. ANY AND ALL MATERIALS NOTED "TO REMAIN" ARE EXISTING MATERIALS TO REMAIN A PART OF THE WORK UNLESS OTHERWISE NOTED. ANY MATERIAL NOT DESIGNATED "TO REMAIN" SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER, AND REPLACED WITH NEW MATERIALS UNLESS OTHERWISE NOTED.
11. SITE UTILITIES - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ANY EXISTING PUBLIC AND PRIVATE UTILITIES LOCATED WITHIN PROXIMITY OF THE LIMITS OF WORK.

ACCESSIBILITY NOTES (COURTYARD STEPS & RAMP)

1. COMPLIANCE WITH 2021 IBC CHAPTER 11 ACCESSIBILITY.
2. COMPLIANCE WITH ICC ANSI A117-1-2017 FOR ACCESSIBLE ROUTES.

DRAWING SHEET INDEX: (CD SUBMITTAL)

ARCHITECTURAL DRAWINGS

G-000	COVER PAGE (1 OF 11)
G-001	LOCATION MAPS & DRAWING INDEX (2 OF 11)
A-100	COURTYARD PLAN - BASE BID & ALTERNATES No. 1 & 2 (3 OF 11)
A-101	USPFO BUILDING FLOOR PLAN - ENTRANCE DOORS (4 OF 11)

CIVIL/SITE DRAWINGS

C001	DEMOLITION PLAN (5 OF 11)
C100	SITE PLAN & RAMP DETAILS (6 OF 11)

STRUCTURAL DRAWINGS

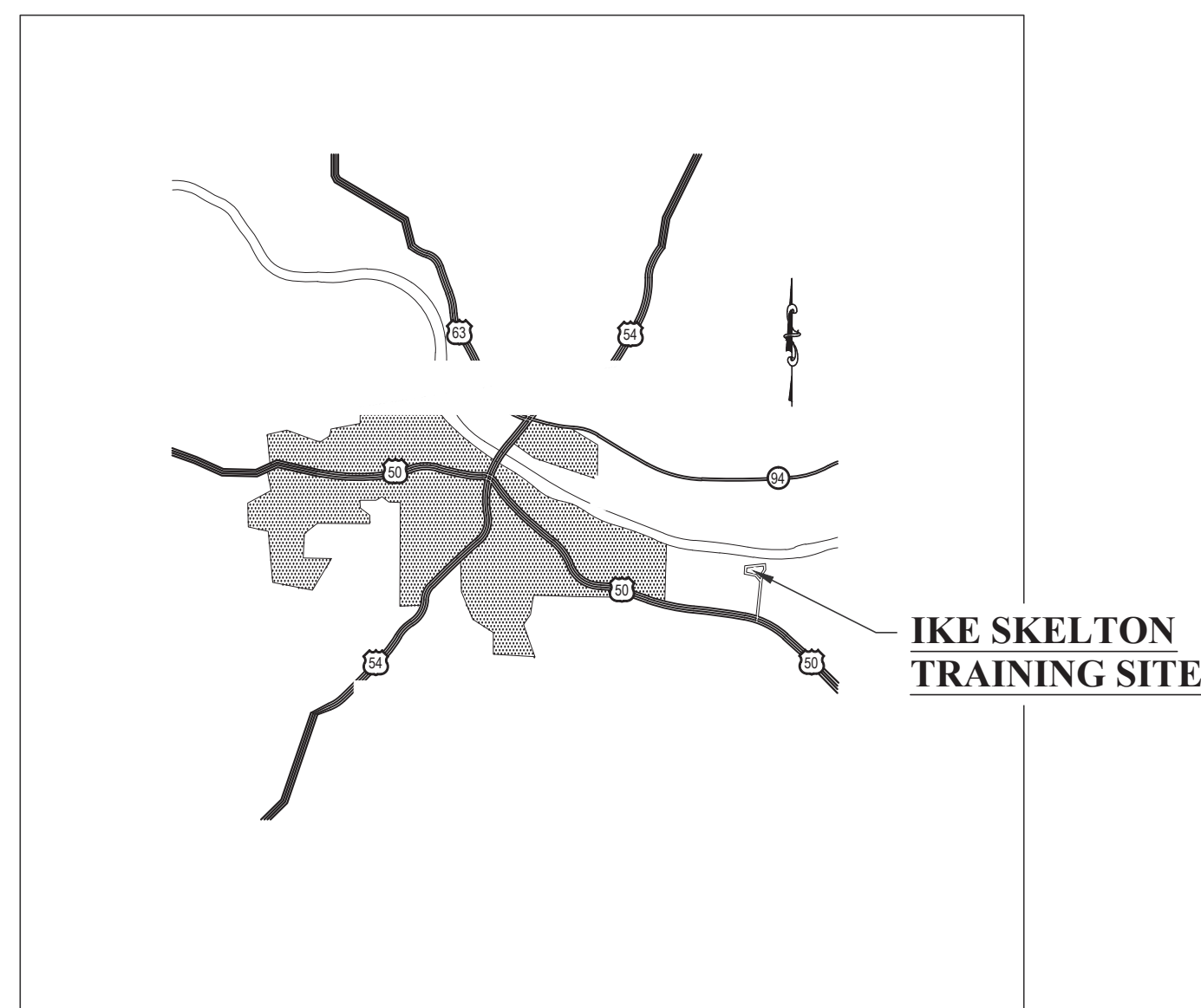
S100	GENERAL DATA - PARTIAL SITE PLAN (7 OF 11)
S110	RETAINING WALL DETAILS (8 OF 11)

ELECTRICAL DRAWINGS

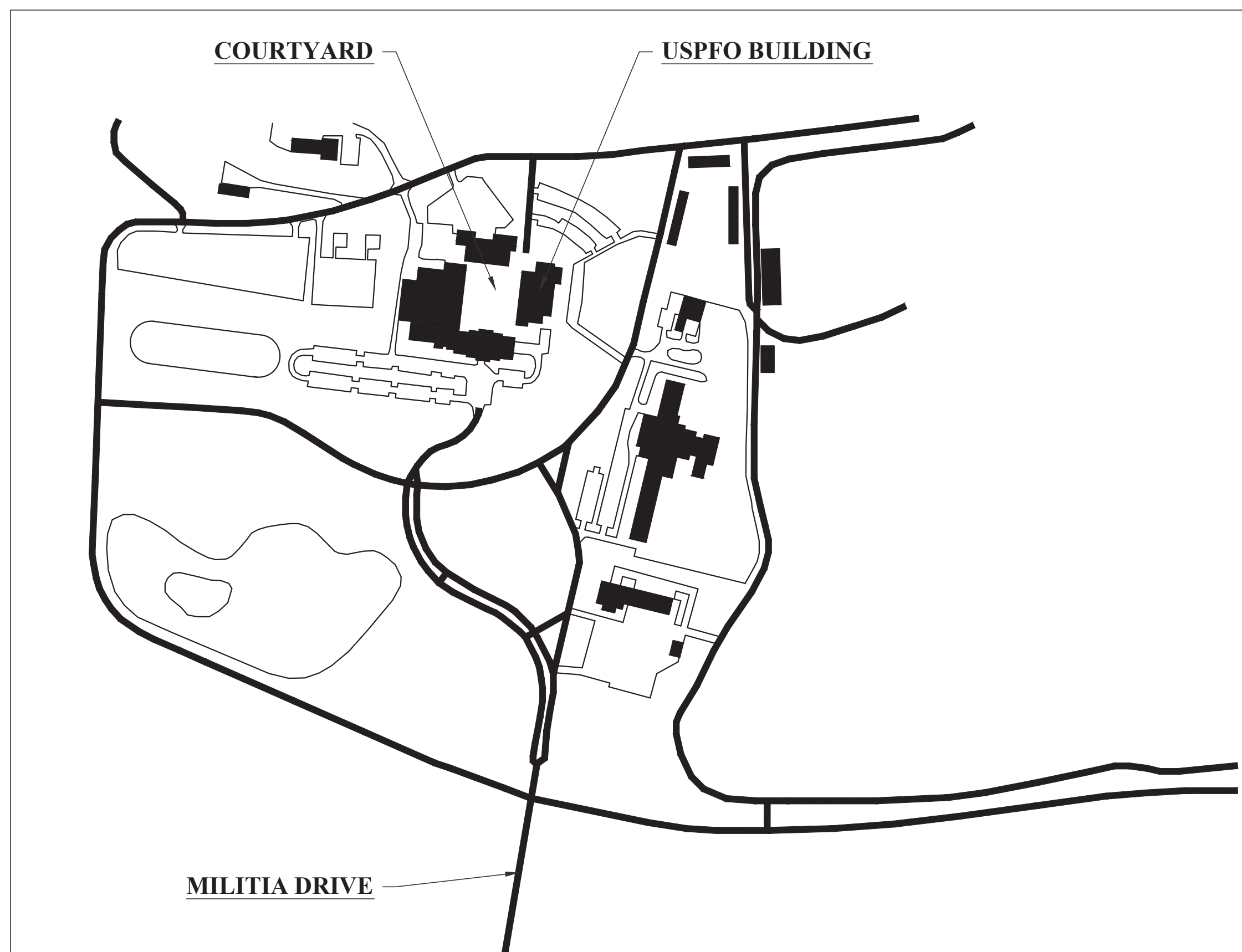
E101	LIGHTING PLAN - COURTYARD (9 OF 11)
E102	POWER PLAN - USPFO BUILDING (10 OF 11)
E501	ELECTRICAL DETAILS & SCHEDULES (11 OF 11)



1 MISSOURI STATE MAP
G-001 NOT TO SCALE



2 VICINITY MAP - IKE SKELTON TRAINING SITE
G-001 NOT TO SCALE

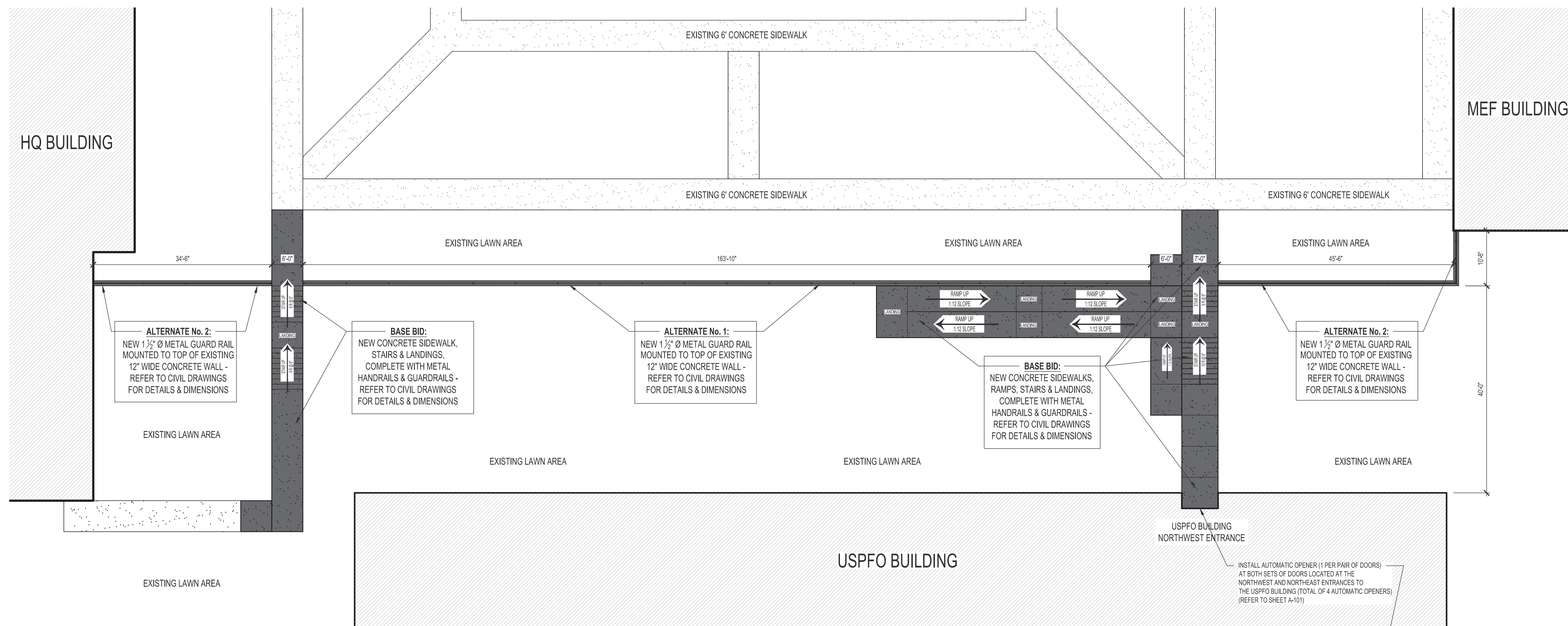


SITE UTILITIES NOTE:

THE CONTRACTOR SHALL CONTACT MISSOURI ONE CALL AT 1-800-344-7483 OR ONLINE AT mo1call.com AND REQUEST A LOCATE OF ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO THE COMMENCEMENT OF ANY LAND DISTURBANCE ACTIVITIES.

THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO SITE UTILITIES OR DISRUPTION OF UTILITY SERVICE TO THE OWNER RESULTING FROM THE WORK OF THIS CONTRACT.

3 VICINITY MAP - IKE SKELTON TRAINING SITE
G-001 NOT TO SCALE



1
A-100

ASSET NUMBER - 8136300005
COURTYARD PLAN - BASE BID + ALTERNATES 1 & 2

SCALE: 3/32" = 1'-0"

BASE BID:

THE SCOPE OF THE BASE BID INCLUDES BUT IS NOT LIMITED TO:

- SELECTIVE DEMOLITION OF EXISTING DAMAGED OR DETERIORATED CONCRETE SIDEWALKS, STEPS, LANDINGS AND PORTIONS OF THE EXISTING CONCRETE RETAINING WALL, INCLUDING METAL HANDRAILS AS SHOWN ON THE CIVIL DRAWINGS.
- RELOCATE EXISTING TREES, SHRUBS, OUTDOOR FURNITURE AS SHOWN ON THE CIVIL DRAWINGS.
- EXCAVATION, BACKFILLING, COMPACTION AND GRADING REQUIRED TO ACCOMMODATE NEW CONSTRUCTION AS SHOWN ON THE CIVIL DRAWINGS.
- CONSTRUCTION OF NEW CONCRETE SIDEWALKS, FOOTINGS, FOUNDATION WALLS, RAMPS, STAIRS, AND LANDINGS AS SHOWN ON THE CIVIL DRAWINGS.
- INSTALLATION OF NEW METAL HANDRAILS AND GUARDRAILS AS SHOWN ON THE CIVIL DRAWINGS.
- INSTALLATION OF NEW SITE LIGHTING AS SHOWN ON THE MEP DRAWINGS.
- INSTALLATION OF NEW DIRECTIONAL AND INFORMATIONAL SIGNAGE.
- INSTALLATION OF AUTOMATIC OPERATORS ON USPFO ENTRANCE DOORS.

ALTERNATE No. 1:

THE SCOPE OF ALTERNATE No. 1 INCLUDES BUT IS NOT LIMITED TO:

- INSTALLATION OF NEW METAL GUARDRAIL ON TOP OF THE EXISTING 12" WIDE CONCRETE RETAINING WALLS IN LOCATIONS AS SHOWN ON DETAIL 1/A-100 AND AS SHOWN ON THE CIVIL DRAWINGS.
(APPROXIMATELY 164 LINEAR FEET OF 42" HIGH GUARD RAIL)

ALTERNATE No. 2:

THE SCOPE OF ALTERNATE No. 2 INCLUDES BUT IS NOT LIMITED TO:

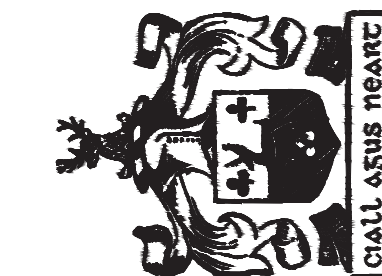
- INSTALLATION OF NEW METAL GUARDRAIL ON TOP OF THE EXISTING 12" WIDE CONCRETE RETAINING WALLS IN LOCATIONS AS SHOWN ON DETAIL 1/A-100 AND AS SHOWN ON THE CIVIL DRAWINGS.
(APPROXIMATELY 90 LINEAR FEET OF 42" HIGH GUARD RAIL)



7/28/2023

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REPLACE COURTYARD STEPS
& ADD ADA RAMP -
USPFO BUILDING

IKE SKELTON TRAINING SITE
7101 MILITARY CIRCLE
JEFFERSON CITY, MO 65101

PROJECT No. T2223-01
SITE No. 6300
ASSET No. 8136300005

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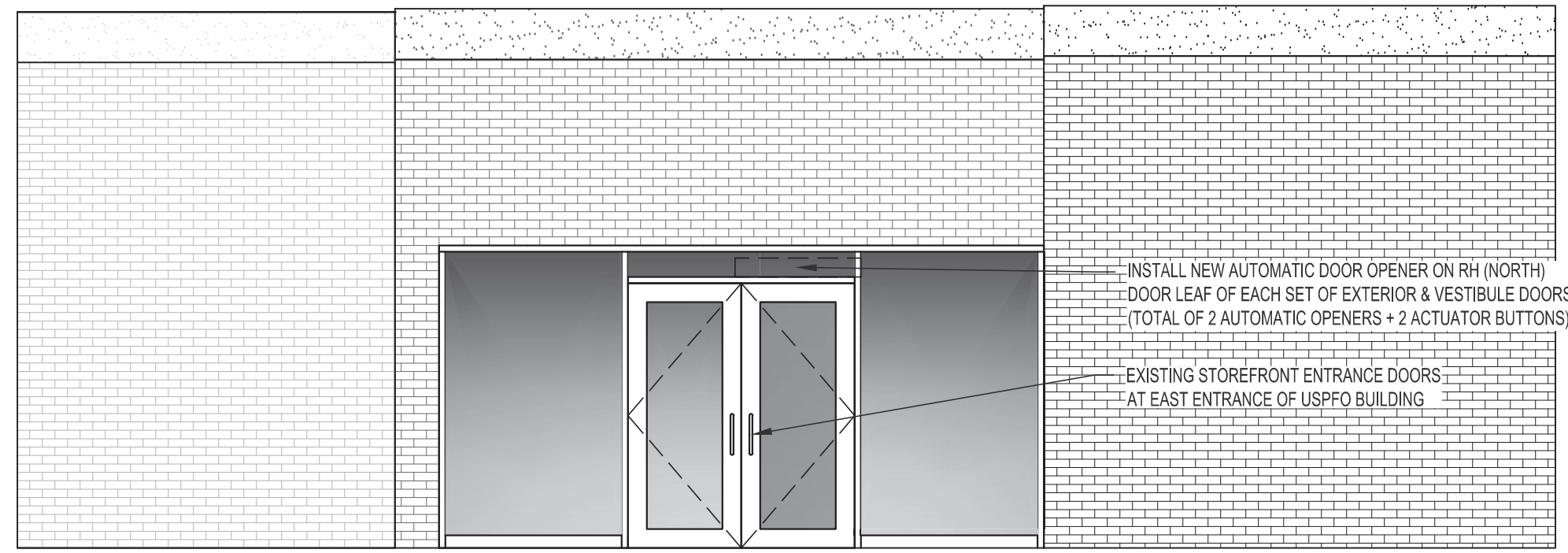
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DESIGNED BY: BDC

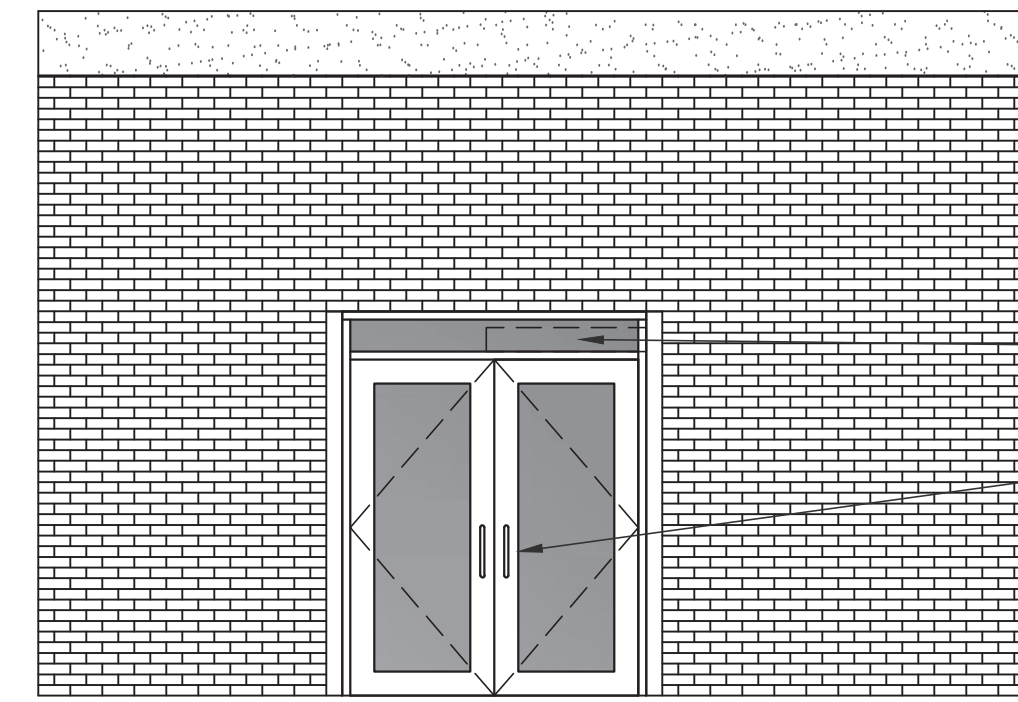
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COURTYARD PLAN -
BASE BID +
ALTERNATES No. 1 & 2

SHEET NUMBER:

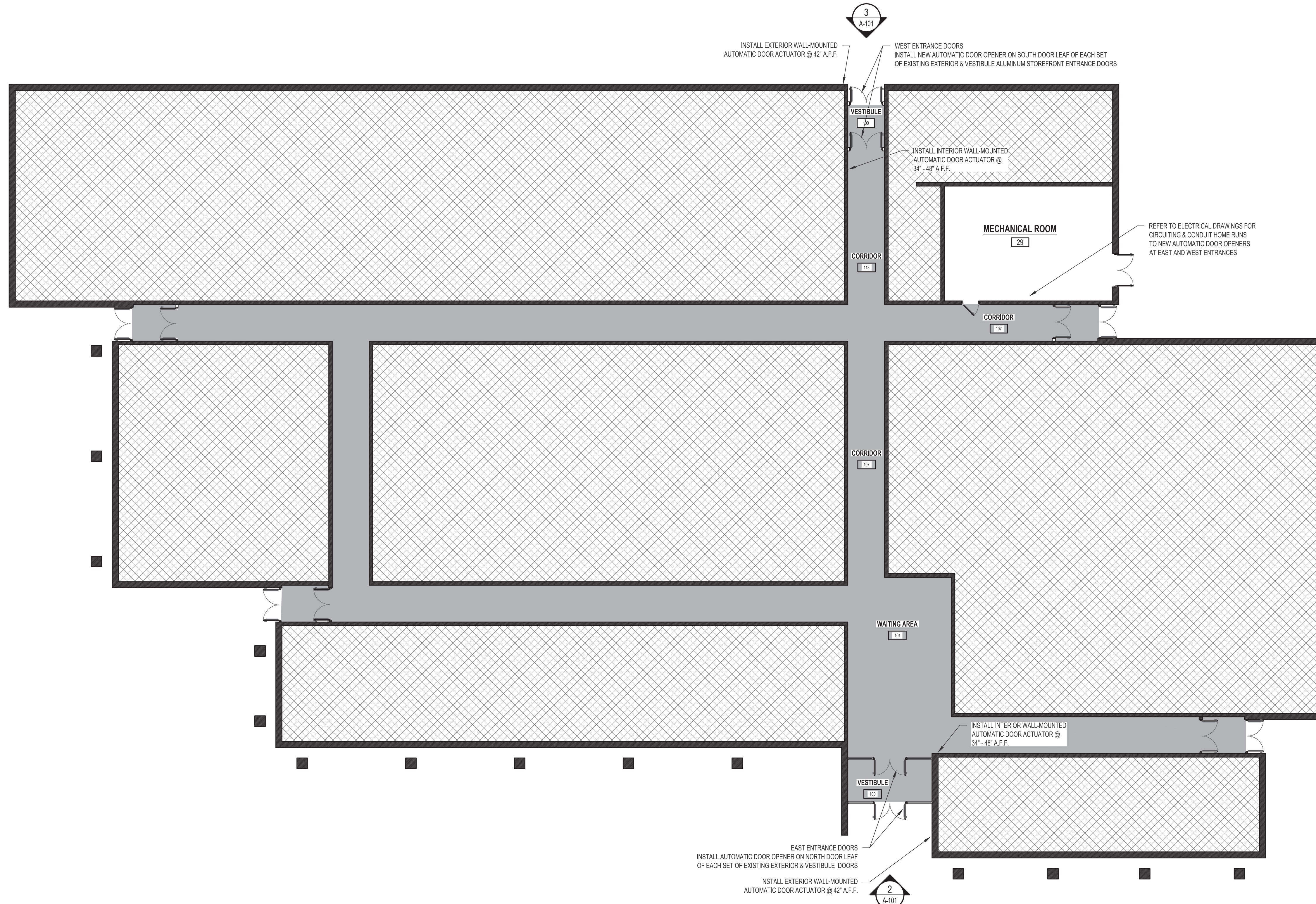
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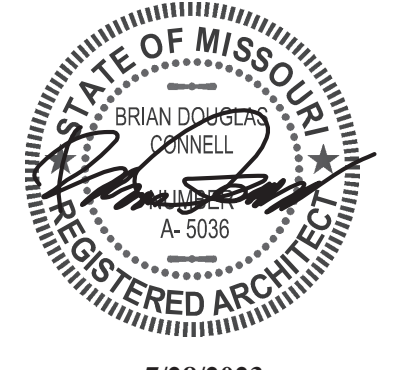
2
A-101
EXTERIOR ELEVATION - USPFO BLDG WEST ENTRANCE DOORS
SCALE: 1/4" = 1'-0"



3
A-101
EXTERIOR ELEVATION - USPFO BLDG EAST ENTRANCE DOORS
SCALE: 1/4" = 1'-0"



ASSET NUMBER - 8136300005
USPFO BUILDING FLOOR PLAN - ENTRANCE DOORS
SCALE: 3/32" = 1'-0"



7/28/2023
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USPFO BUILDING

IKE SKELTON TRAINING SITE
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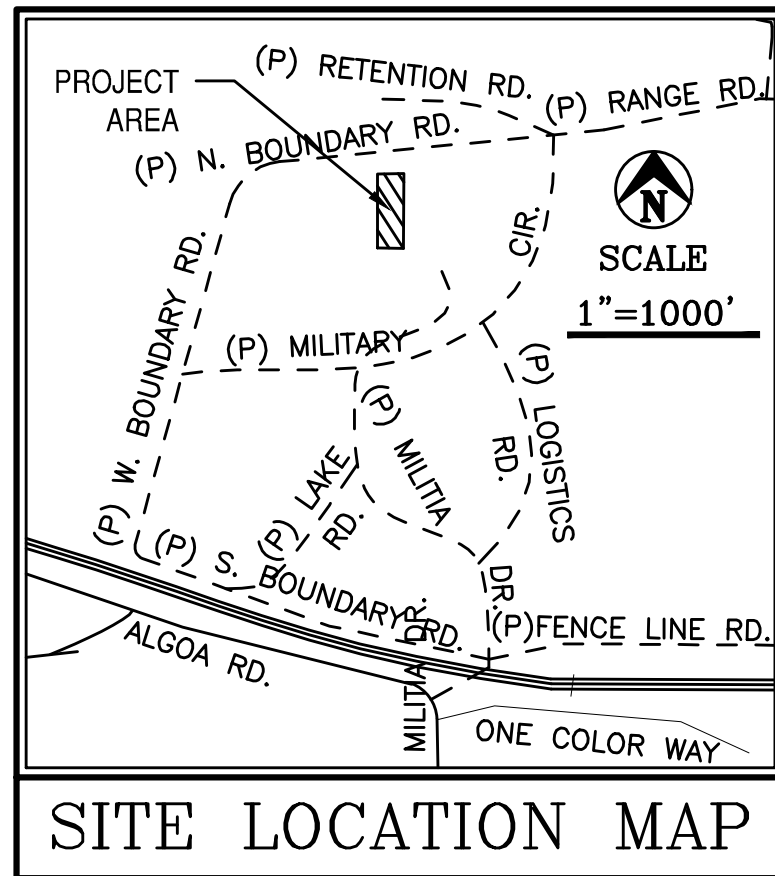
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CAD DWG FILE:
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DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:
USPFO BUILDING
FLOOR PLAN -
ENTRANCE DOORS

SHEET NUMBER:
A-101

SHEET 4 OF 11
ISSUE DATE: 7/28/2023



CONTROL POINTS				
Point #	Northing	Easting	Elevation	Description
4999	990186.81	1762149.39	655.86	RPPK
5001	990219.37	1762149.57	655.39	RPIP
5003	990407.85	1762177.82	655.92	RPPK

NOTES:
 1) REMOVALS ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR AND MAY NOT INCLUDE EVERY ITEM REQUIRING REMOVAL. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVAL OF ADDITIONAL ITEMS NECESSITATED BY THE PROPOSED IMPROVEMENTS.
 2) GRADE ADJUSTMENT OF UTILITY FACILITY COVERS AND LIDS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION.

DEMO PLAN
 IKE SKELTON
 COURTYARD IMPROVEMENTS
 MILITIA DRIVE
 Jefferson City, MO
 Area=0.39 acres ZONED: RC

STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR



1/28/23
 GLENN STRUEMPH
 PROFESSIONAL ENGINEER
 NO. PE-2004017251

Central Missouri Professional Services, Inc.
 ENGINEERING - SURVEYING - MATERIALS TESTING
 2500 E. McCARTY (573) 834-3455
 JEFFERSON CITY, MISSOURI 65101
 CMPS-INC.COM
 Missouri State Certificate of Authority #001558

OFFICE OF
 ADMINISTRATION
 DIVISION OF FACILITIES
 MANAGEMENT, DESIGN
 AND CONSTRUCTION

MISSOURI ARMY
 NATIONAL GUARD

REPLACE COURTYARD STEPS
 & ADD ADA RAMP -
 USPFO BUILDING

IKE SKELTON TRAINING SITE
 7101 MILITARY CIRCLE
 JEFFERSON CITY, MO 65101

PROJECT # T2223-01
 SITE # 6300
 FACILITY # 8136300006

REVISION: _____
 DATE: _____
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 DATE: _____
 ISSUE DATE: 7/28/2023

CAD DWG FILE: _____
 DRAWN BY: P.L.S. & G.J.S.
 CHECKED BY: P.L.S.
 DESIGNED BY: P.L.S.

SHEET TITLE:
 TOPOGRAPHIC SURVEY
 & DEMOLITION PLAN

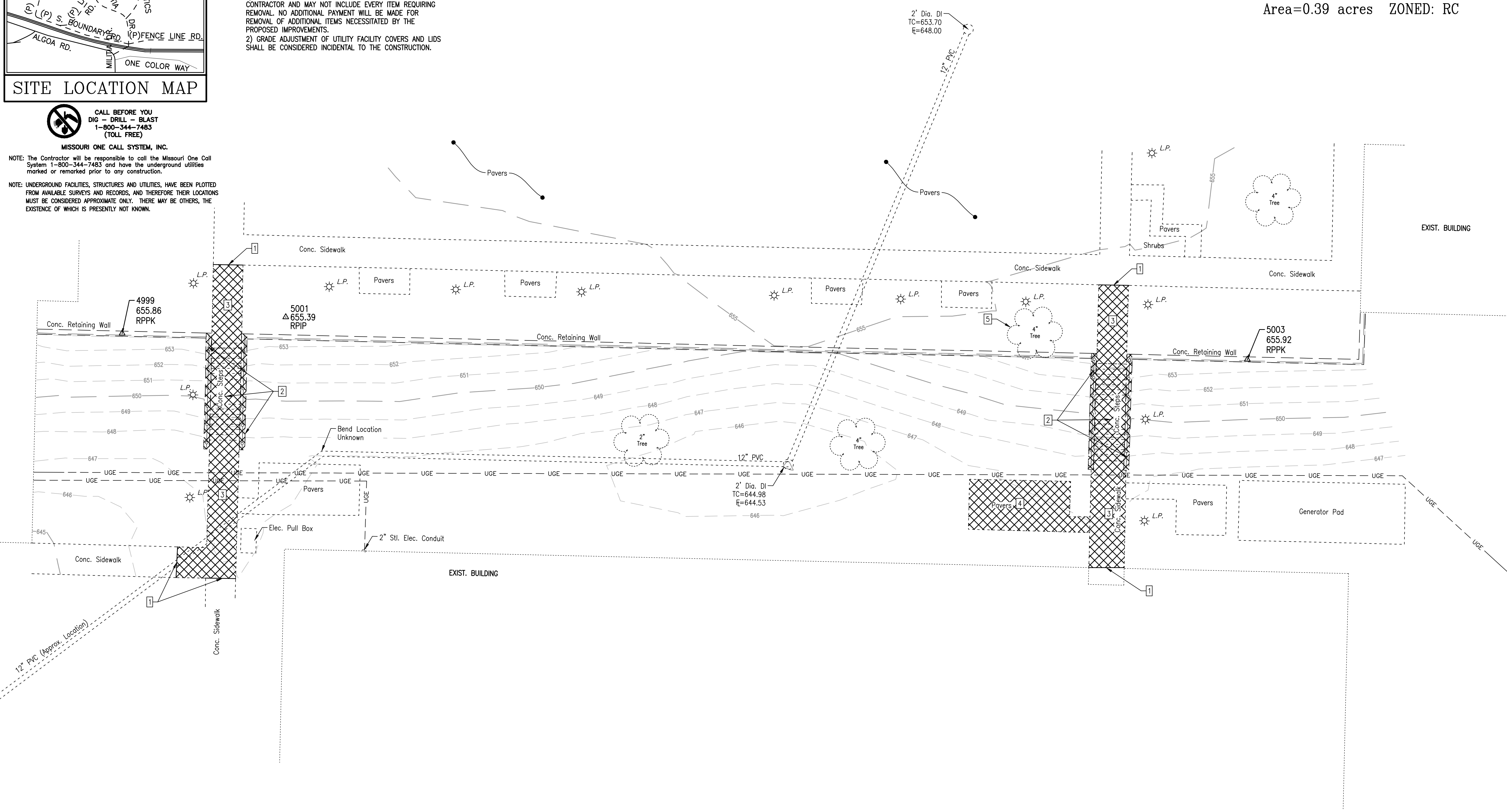
SHEET NUMBER:
C-001
 SHEET 5 OF 11
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CALL BEFORE YOU
 DIG - DRILL - BLAST
 1-800-344-7483
 (TOLL FREE)

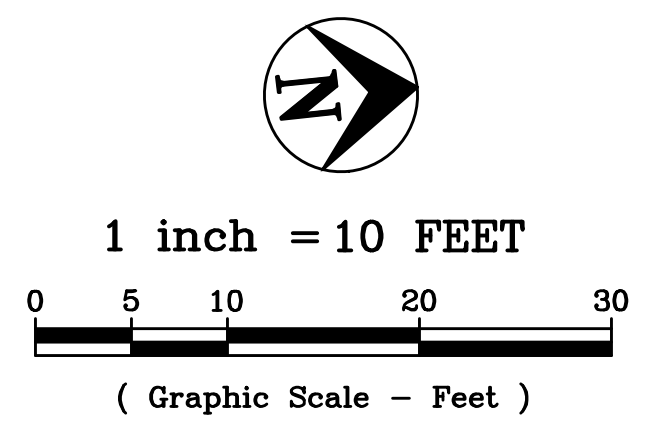
MISSOURI ONE CALL SYSTEM, INC.

NOTE: The Contractor will be responsible to call the Missouri One Call System 1-800-344-7483 and have the underground utilities marked or remarked prior to any construction.

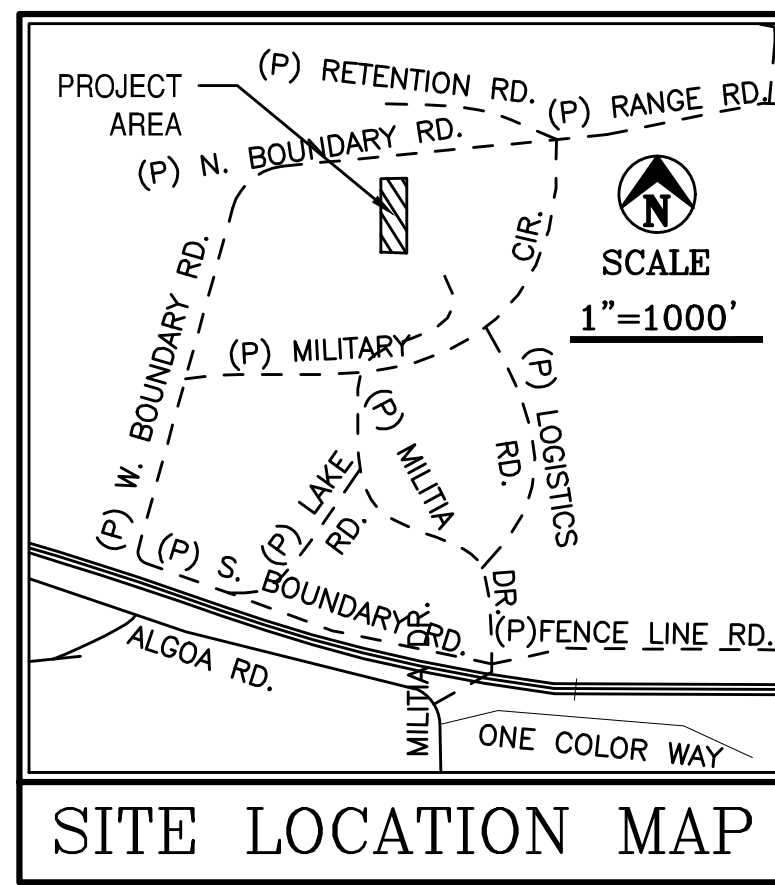
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



- DEMOLITION KEY NOTES
- 1 Full Depth Saw Cut Existing Pavement.
 - 2 Remove Exist. Steps, Railings, Walls & Footings.
 - 3 Remove Exist. Sidewalk.
 - 4 Remove Exist. Pavers.
 - 5 Remove & Relocate/Replace Exist. Tree.



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CALL BEFORE YOU DIG - DRILL - BLAST
 1-800-344-7483
 (TOLL FREE)

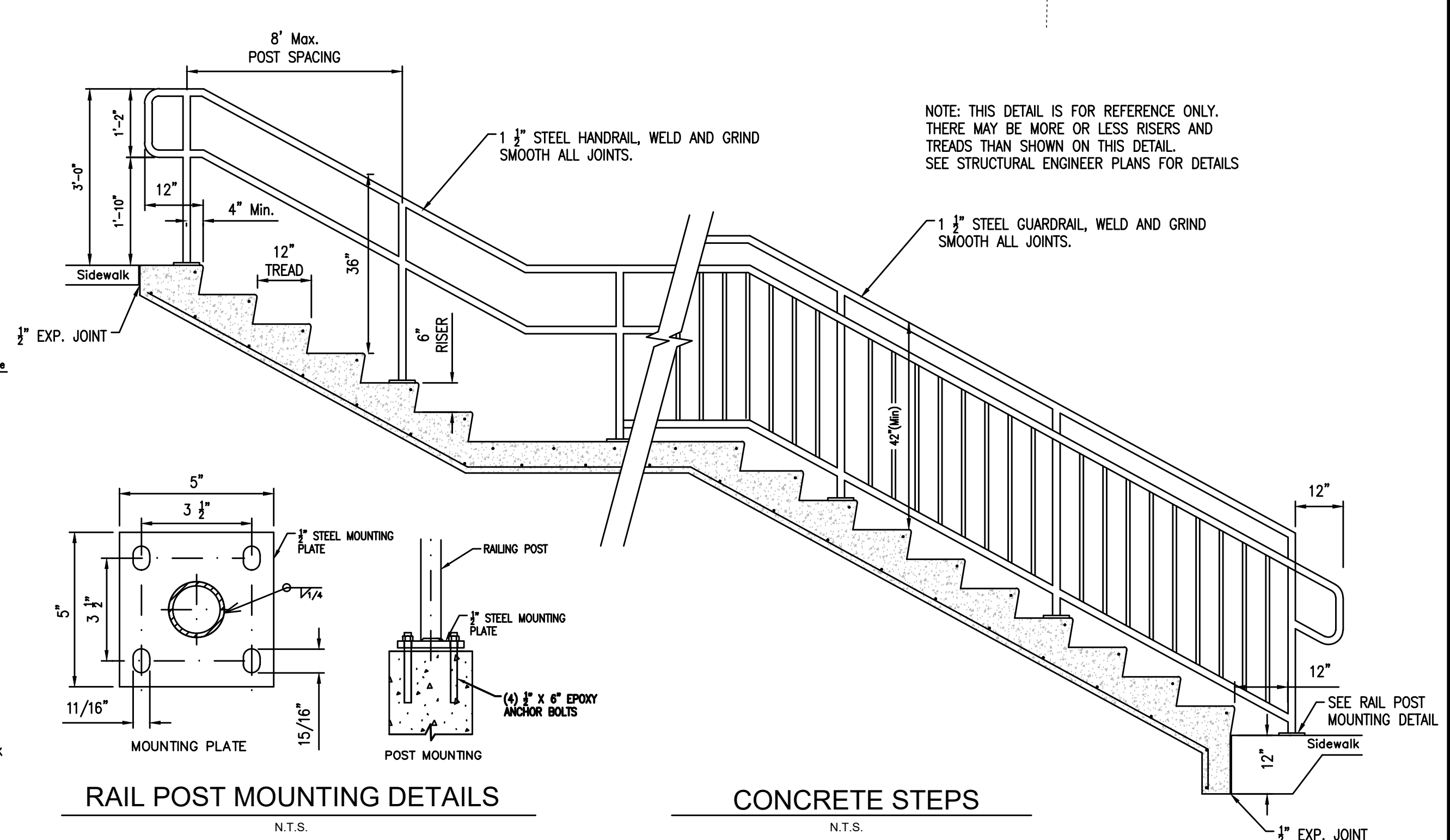
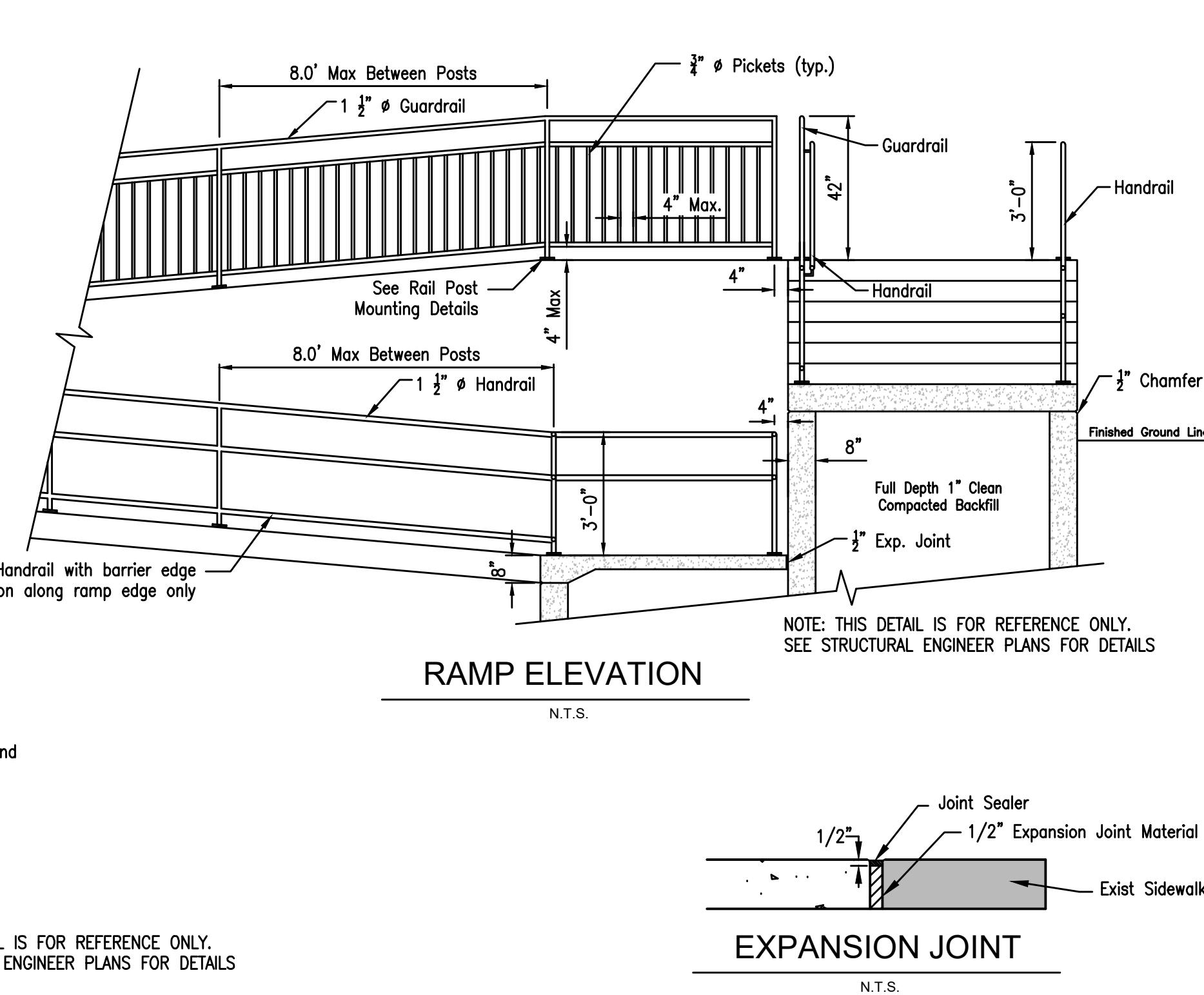
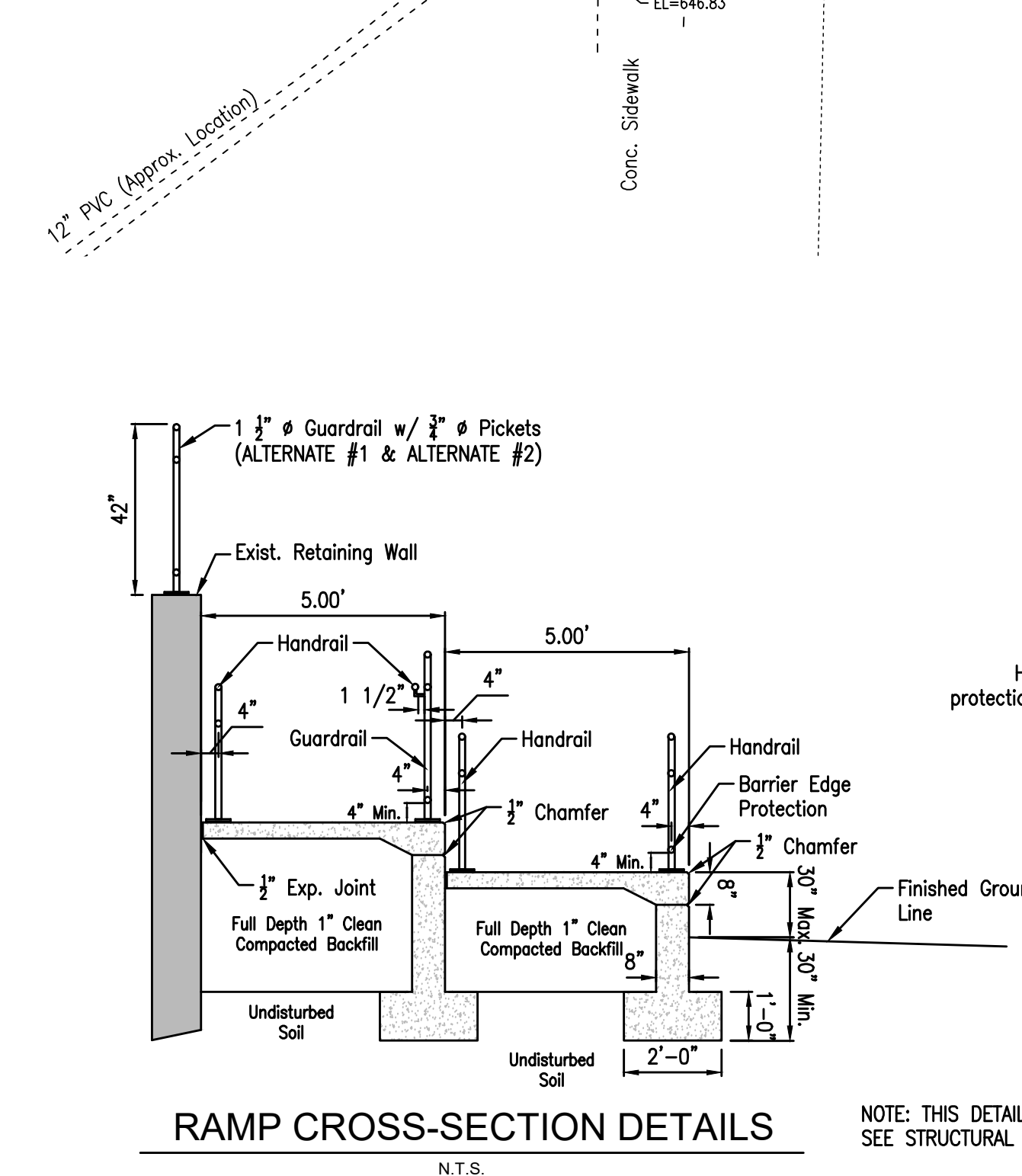
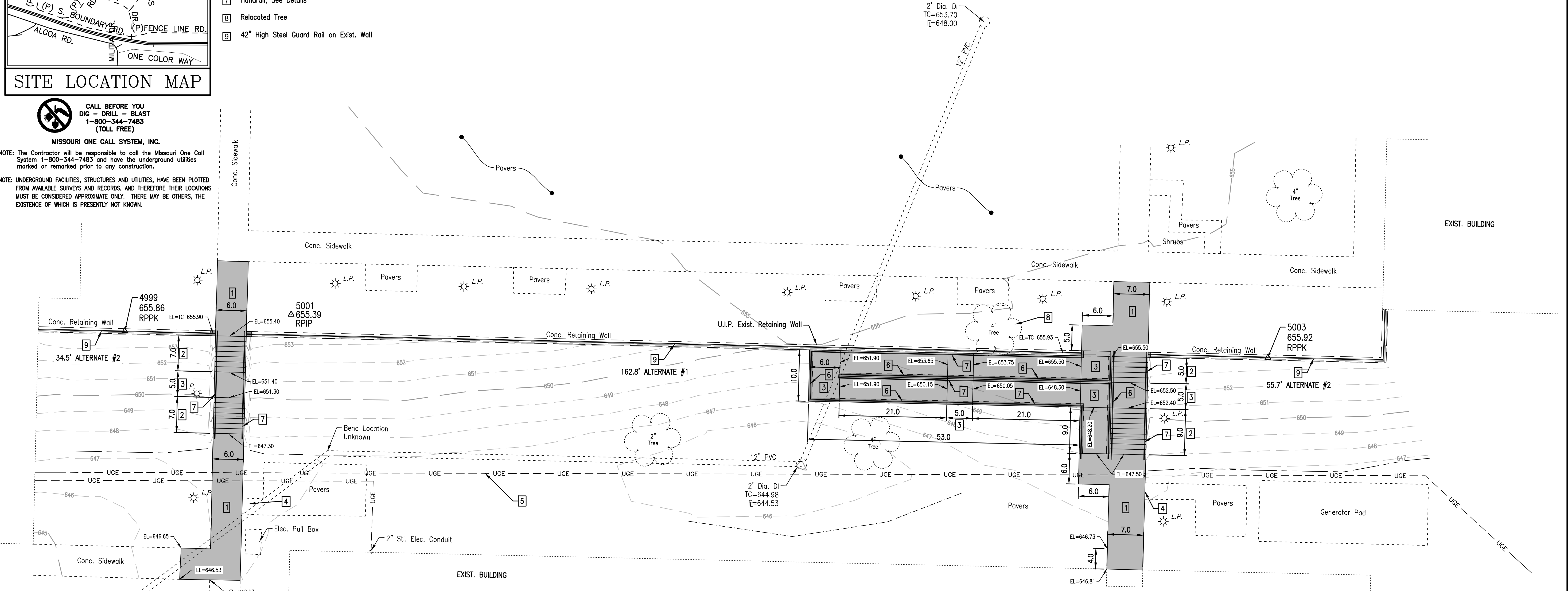
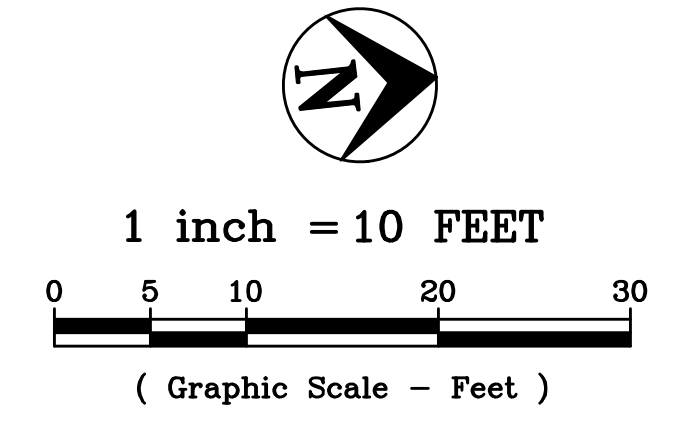
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SITE PLAN KEY NOTES

- 1 4" Thick Conc. Sidewalk
- 2 Concrete Stairs
- 3 Concrete Landing
- 4 Reset Exist. Sidewalk Pavers to Match New Sidewalk Elevations
- 5 Expose Conduit to Find Break & Repair with Split Coupling
- 6 Guardrail, See Details
- 7 Handrail, See Details
- 8 Relocated Tree
- 9 42" High Steel Guard Rail on Exist. Wall

SITE PLAN
IKE SKELTON
COURTYARD IMPROVEMENTS

MILITIA DRIVE
 Jefferson City, MO
 Area=0.39 acres ZONED: RC



STATE OF MISSOURI
 MICHAEL L. PARSON,
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CAD DWG FILE:
 DRAWN BY: P.L.S. & G.J.S.
 CHECKED BY: P.L.S.
 DESIGNED BY: P.L.S.

SHEET TITLE:
SITE PLAN
& DETAILS

SHEET NUMBER:
C-100
 SHEET 5 OF 9
 ISSUE DATE: 7/28/2023

GENERAL NOTES

ELEVATION DATUM

SEE PLANS PROVIDED.

DESIGN SPECIFICATIONS

2015 INTERNATIONAL BUILDING CODE.

EARTHWORK

EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

FOOTINGS

- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- HORIZONTAL REINFORCING IN FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND INTERSECTIONS. CORNER BARS SHALL BE PROVIDED TO MATCH HORIZONTAL STEEL. REINFORCING STEEL SHALL BE LAPPED AS FOLLOWS WHERE SPLICES ARE REQUIRED:

BAR SIZE	LAP DIMENSION
# 4	1'-6"
# 5	1'-9"
# 6	2'-0"

- ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WEATHER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:
FOUNDATIONS/WALLS - 4,000 PSI ($w/c < 0.50$)
- CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY.
- NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIX. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
- CHLORIDE-BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.

SPECIAL INSPECTIONS

- THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
 - PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC REINFORCING)
 - BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
 - POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
 - IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
- THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

TECHNICAL REQUIREMENTS

- PRIOR TO CONSTRUCTION OF THE WALLS, THE GRADING CONTRACTOR SHALL CLEAR AND GRUB THE REINFORCED BACKFILL ZONE AREA, REMOVING TOP SOILS, BRUSH, SOD OR OTHER ORGANIC OR DELETERIOUS MATERIALS. ANY UNSUITABLE SOILS SHALL BE OVER-EXCAVATED, REPLACED AND COMPACTED WITH REINFORCED BACKFILL MATERIAL TO PROJECT SPECIFICATIONS OR OTHERWISE DIRECTED BY THE OWNER'S GEOTECHNICAL ENGINEER.
- THE GEOTECHNICAL ENGINEER SHALL CONFIRM THAT THE SITE HAS BEEN PROPERLY PREPARED AND THE DESIGN PARAMETERS IN DESIGN PARAMETERS SECTION ARE APPROPRIATE PRIOR TO FILL PLACEMENT. A WRITTEN CONFIRMATION SHALL BE PROVIDED TO CROCKETT ENGINEERING PRIOR TO FILL PLACEMENT.
- FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 10 INCHES IN UNCOMPACTED THICKNESS FOR HEAVY COMPACTION EQUIPMENT. FOR ZONES WHERE COMPACTION IS ACCOMPLISHED WITH HAND OPERATED EQUIPMENT, FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN UNCOMPACTED THICKNESS. ONLY HAND-OPERATED EQUIPMENT SHALL BE ALLOWED WITHIN THREE FEET OF THE BACK FACE OF WALL.
- FILL SHALL BE COMPACTED AS SPECIFIED BY PROJECT SPECIFICATIONS OR TO A MINIMUM 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-698.
- TESTING METHODS AND FREQUENCY, AND VERIFICATION OF MATERIAL SPECIFICATIONS AND COMPACTION SHALL BE THE RESPONSIBILITY OF THE OWNER'S GEOTECHNICAL ENGINEER. A COPY OF THE REPORT SHALL BE PROVIDED TO CROCKETT ENGINEERING.
- FILL WALL EVENLY EACH SIDE PRIOR TO BACKFILLING.

DRAINAGE

- AT THE END OF EACH WORK DAY, BACKFILL SURFACE SHALL BE COMPACTED WITH A SMOOTH PLATE COMPACTOR TO MINIMIZE PONDING OF WATER AND SATURATION OF THE BACKFILL.
- PERMANENT SURFACE WATER DIVERSION SHALL BE AS REQUIRED AND PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE.

DESIGN PARAMETERS

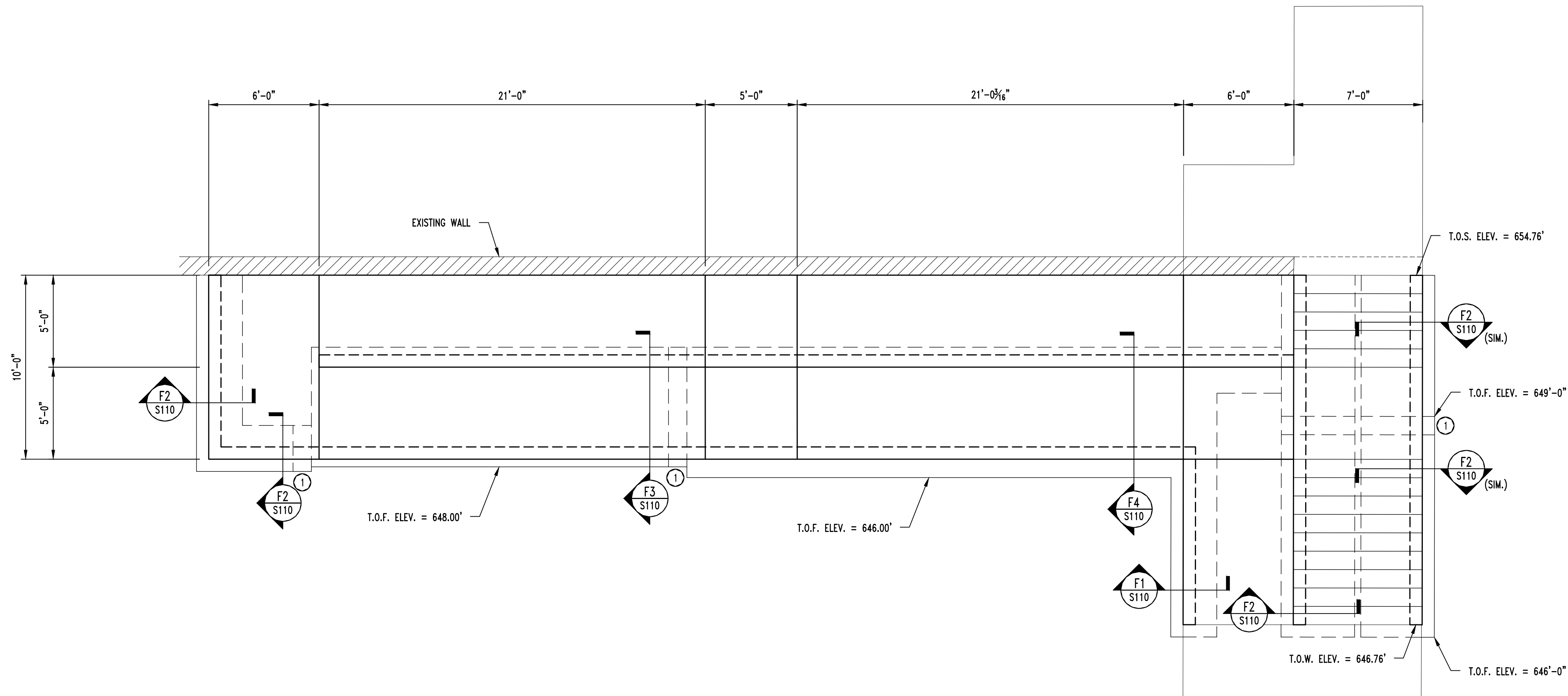
- DESIGN OF THE REINFORCED SOIL STRUCTURE IS BASED ON THE FOLLOWING PARAMETERS:
 - BEARING CAPACITY = 1,700 PSF
 - LATERAL PRESSURES
 - ACTIVE = 40 PCF (CLEAN GRAVEL)
 - PASSIVE = 270 PCF
 - SLIDING RESISTANCE
 - COEFFICIENT OF FRICTION = 0.32
- EXTERNAL STABILITY:
 - MINIMUM FACTOR OF SAFETY FOR OVERTURNING = 2.0
 - MINIMUM FACTOR OF SAFETY FOR SLIDING = 1.5
- SURCHARGE LOADING
 - LIVE LOAD TRAFFIC AREAS = 250 PSF
- GLOBAL STABILITY DESIGN WAS CONSIDERED AS PART OF THE WALL DESIGN.

SPECIAL PROVISIONS

- THE DESIGN PRESENTED HEREIN IS BASED ON SOIL PARAMETERS, FOUNDATION CONDITIONS, GROUNDWATER CONDITIONS AND LOADINGS.
- WALL ELEVATION VIEWS AND LOCATIONS AND GEOMETRY OF EXISTING STRUCTURES AND GRADE ABOVE AND BELOW THE WALLS MUST BE VERIFIED BY THE CONTRACTOR, TO MATCH ELEVATIONS SHOWN IN THE CONTRACT DOCUMENTS, PRIOR TO CONSTRUCTION.

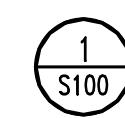
GUARDRAIL

- SHALL BE 42" TALL ABOVE THE ADJACENT WALKING SURFACE.
- SHALL NOT HAVE OPENINGS LARGE ENOUGH TO PASS A 4" SPHERE.
- MAIN RAILS SHALL RESIST 50 POUND PER LINEAL FOOT LATERALLY AT THE TOP RAIL OR 200 POUNDS CONCENTRATED LOAD LATERALLY.
- INTERMEDIATE RAILS SHALL RESIST A CONCENTRATED LOAD OF 50 POUNDS LATERALLY.



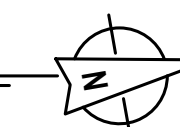
FOUNDATION NOTES

- FOOTING STEP; SEE DETAIL FS1/S110.




PARTIAL SITE PLAN

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



07/21/2023

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REPLACE COURTYARD STEPS
& ADD ADA RAMP -
USPFO BUILDING

IKE SKELTON TRAINING SITE
7101 MILITARY CIRCLE
JEFFERSON CITY, MO 65101

PROJECT No. T2223-01
SITE No. 6300
ASSET No. 8136300005

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 7/28/2023

CAD DWG FILE:

DRAWN BY: SEH
CHECKED BY: JWV
DESIGNED BY: JWV

SHEET TITLE:

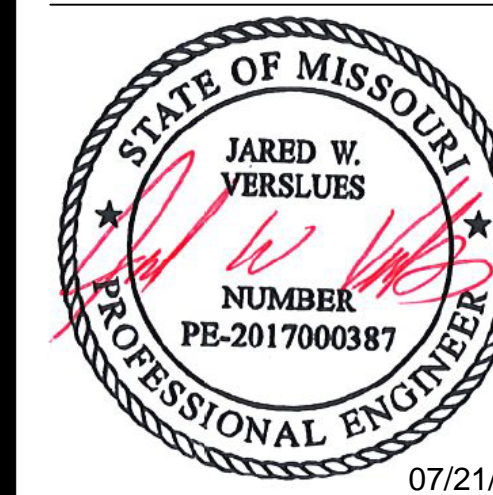
GENERAL DATA
PARTIAL SITE PLAN

SHEET NUMBER:

S100

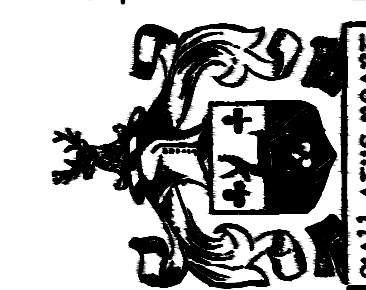
7 OF 11 SHEETS

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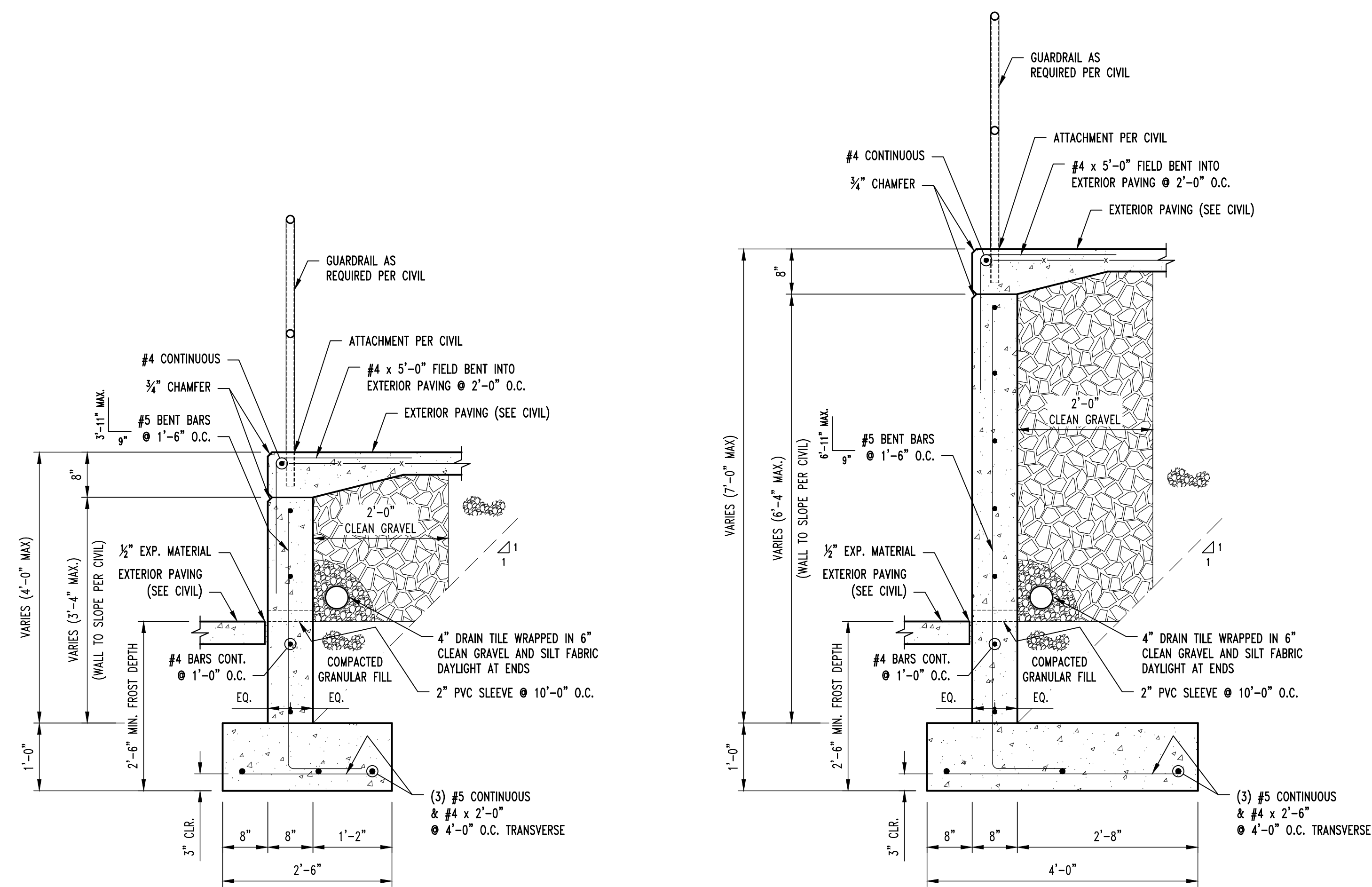
DRAWN BY: SEH
CHECKED BY: JWV
DESIGNED BY: JWV

SHEET TITLE:
RETAINING WALL
DETAILS

SHEET NUMBER:

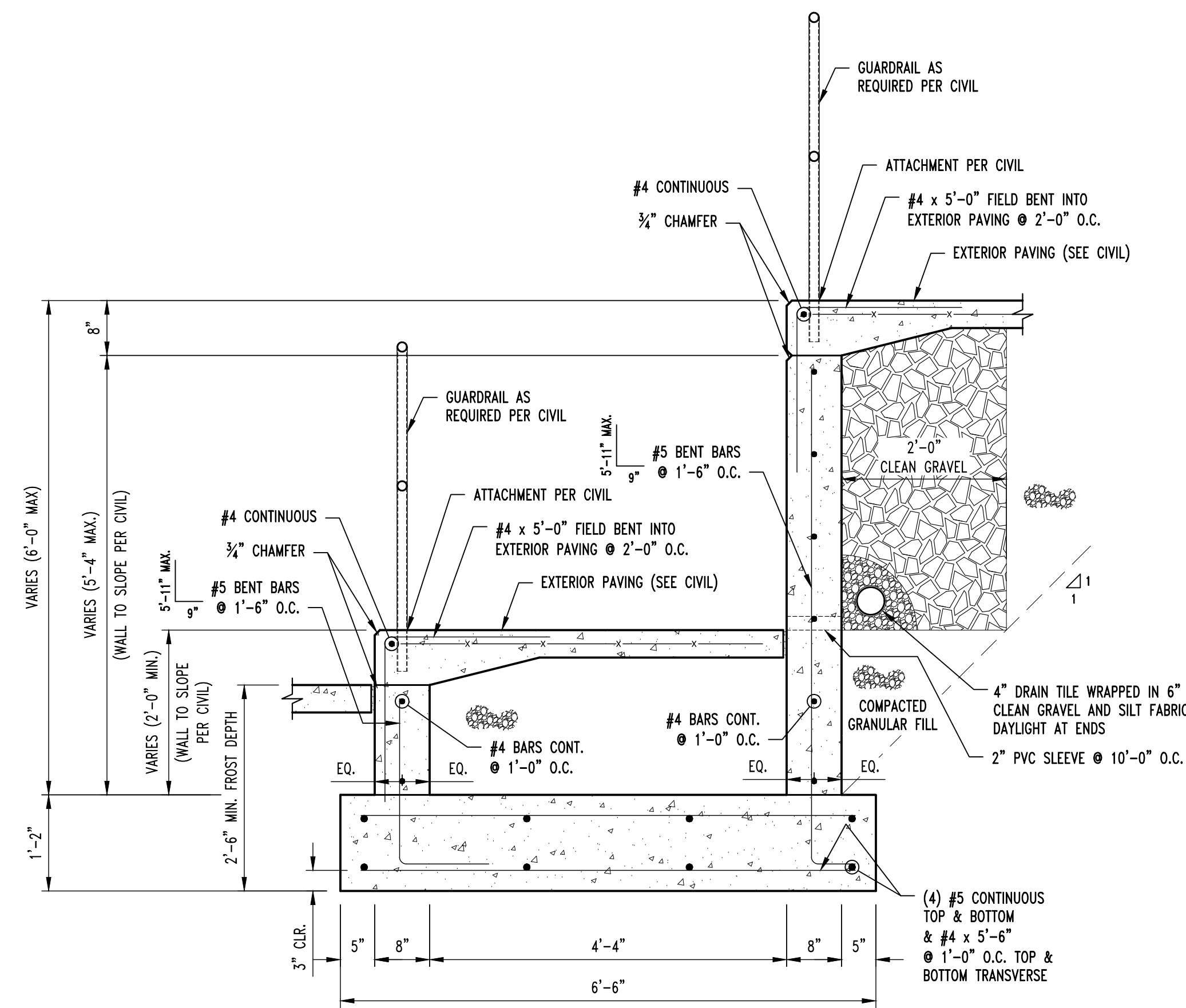
S110

8 OF 11 SHEETS
ISSUE DATE: 7/28/2023

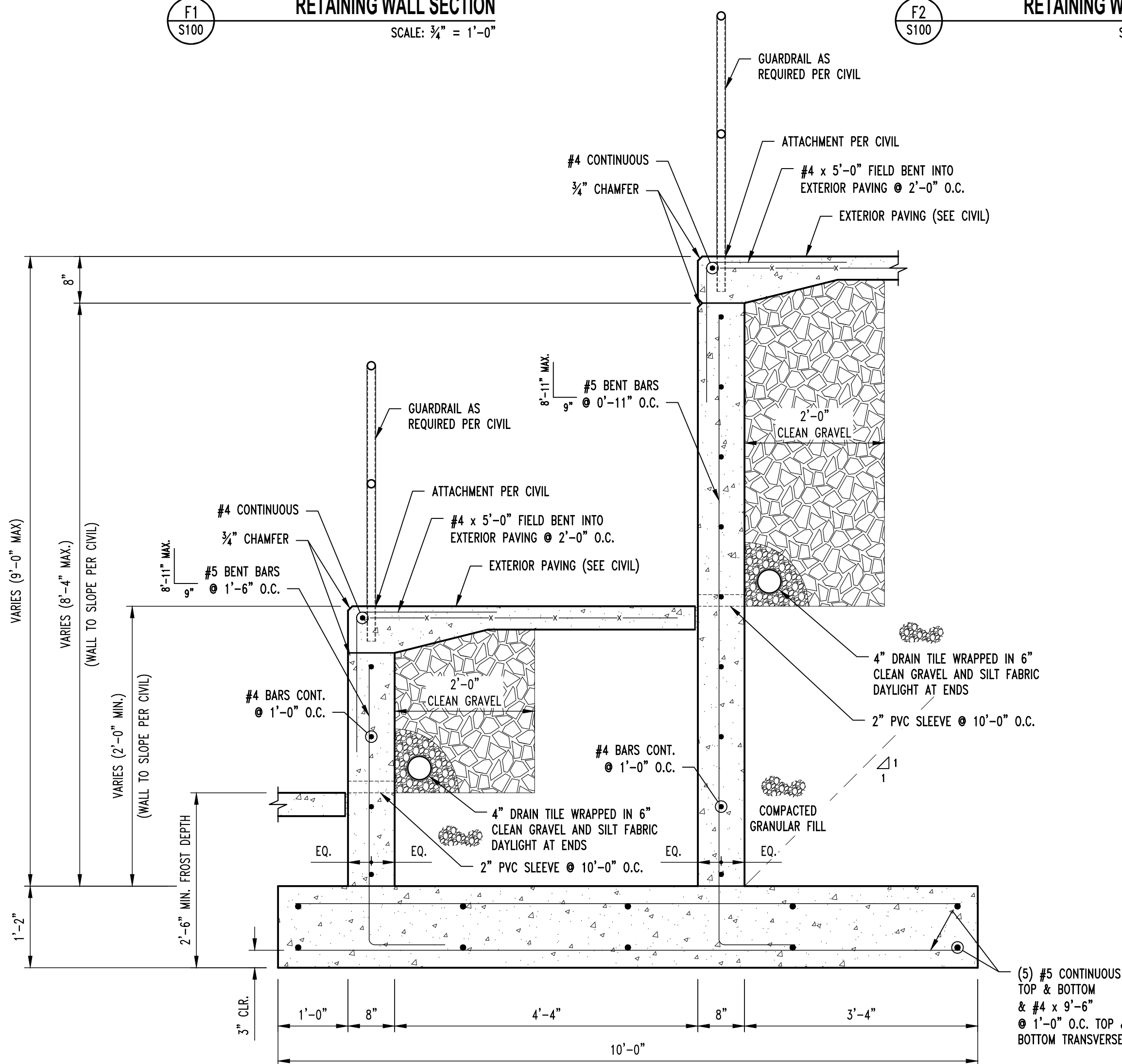


F1
S100
RETAINING WALL SECTION
SCALE: 3/4" = 1'-0"

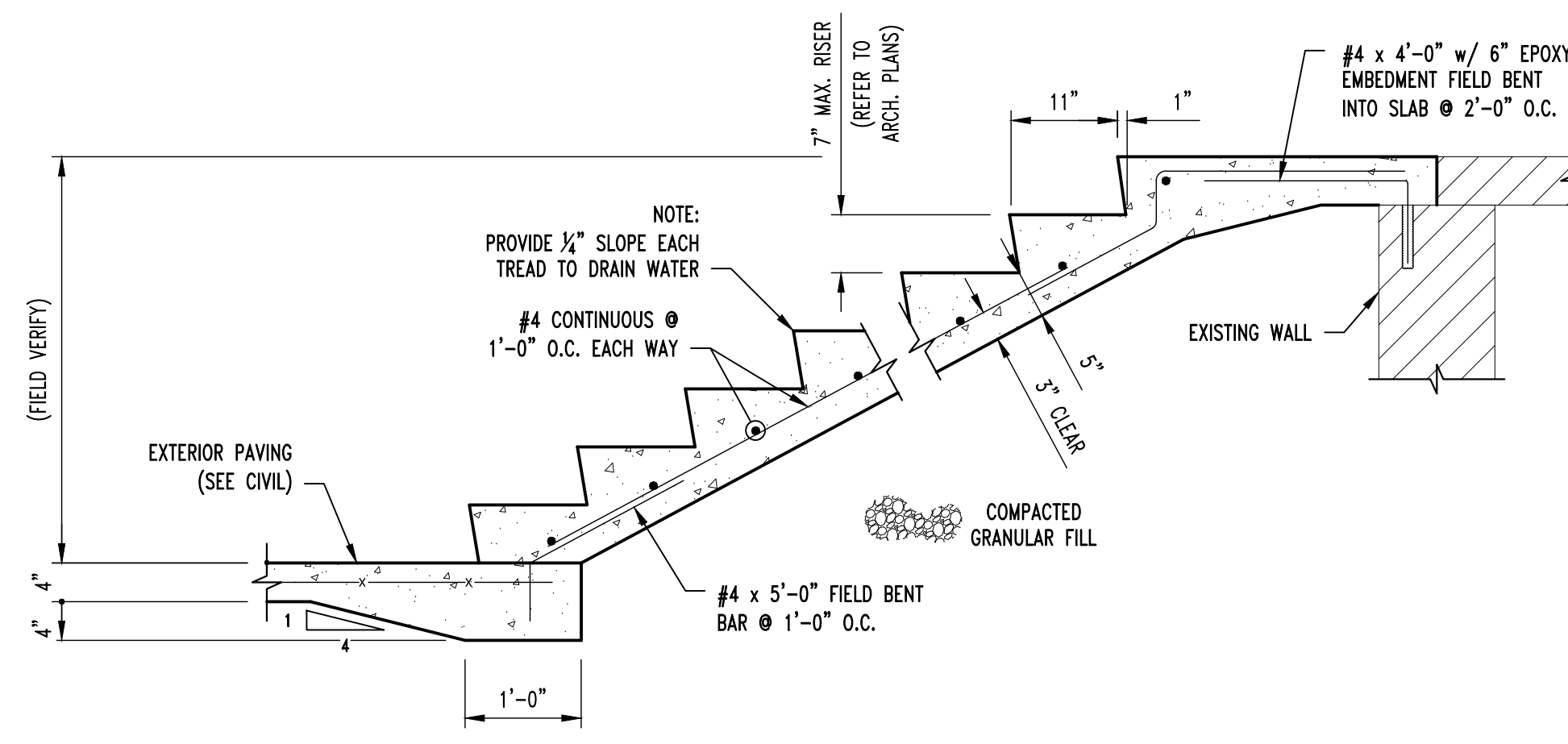
F2
S100
RETAINING WALL SECTION
SCALE: 3/4" = 1'-0"



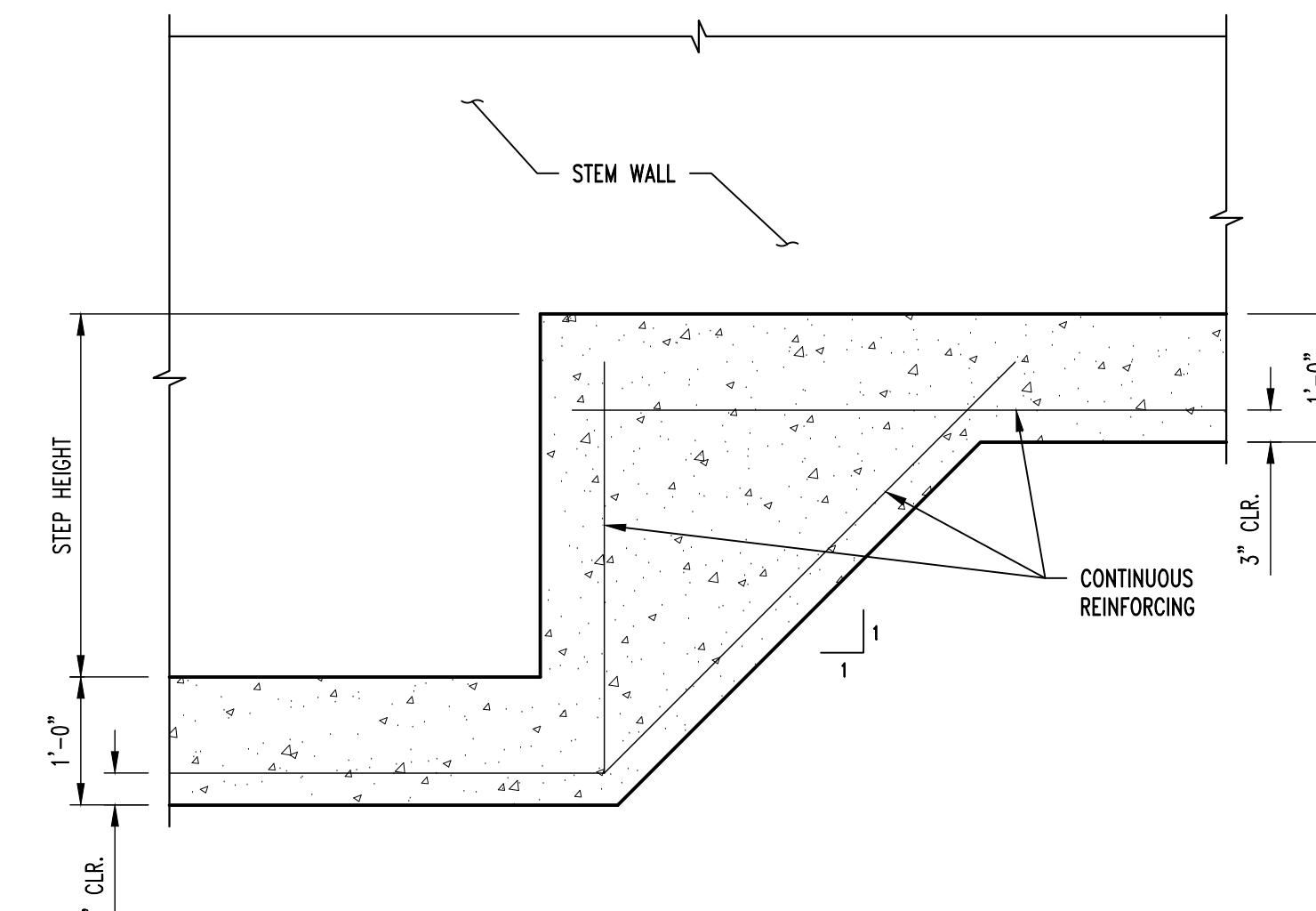
F3
S100
RETAINING WALL SECTION
SCALE: 3/4" = 1'-0"



F4
S100
RETAINING WALL SECTION
SCALE: 3/4" = 1'-0"



F5
S100
STAIR SECTION
SCALE: 3/4" = 1'-0"



F51
S100
FOOTING STEP SECTION
SCALE: 3/4" = 1'-0"

LIGHTING PLAN GENERAL NOTES:

1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL DETAILS, & SCHEDULES.

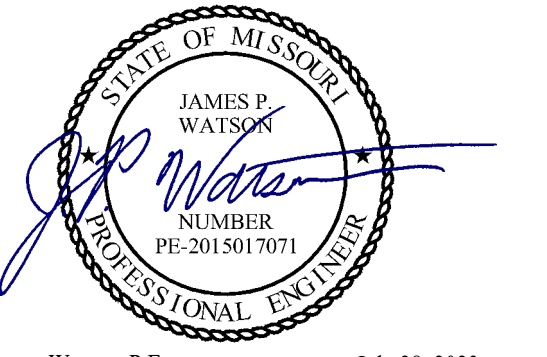
LIGHTING PLAN KEY NOTES:

- ① EXISTING BOLLARD LIGHT TO REMAIN.
- ② TIE INTO EXISTING POLE LIGHT CIRCUIT AT EXISTING BOLLARD LIGHT & EXTEND NEW 1" UNDERGROUND PVC CONDUIT & CONDUCTORS (2) #10, (1) #10 EQ. GRD.) TO NEW BOLLARD LIGHT AS SHOWN.

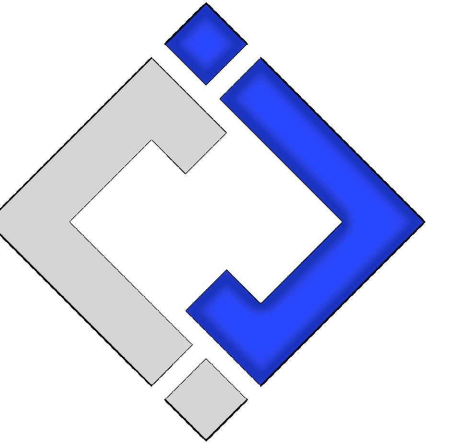
REFERENCED CODES IN EFFECT

- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRIC CODE
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



James Watson, P.E. July 28, 2023
PE-2015017071
MO Certificate of Authority # 2018029680



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CAD DWG FILE: J20972
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: JAP

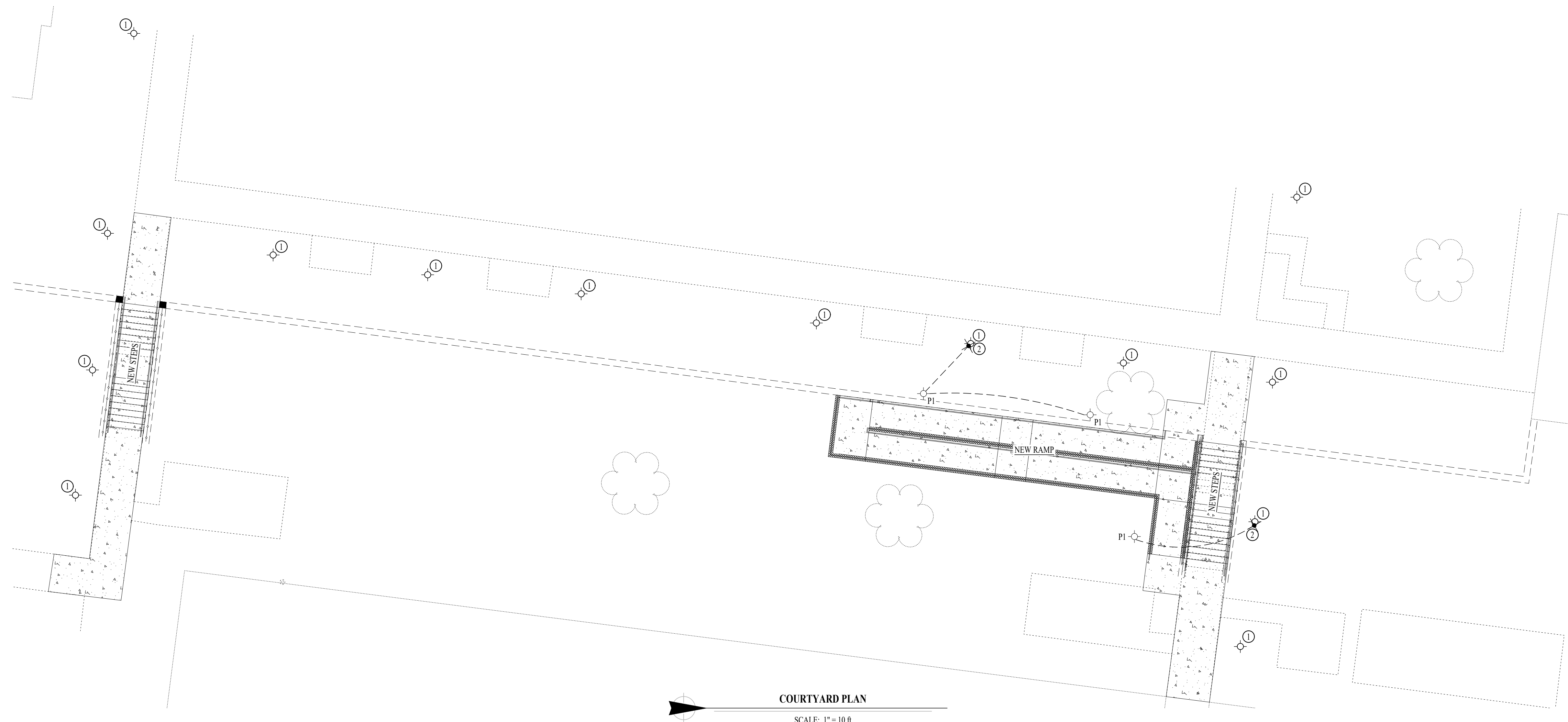
SHEET TITLE:

**LIGHTING PLAN -
COURTYARD**

SHEET NUMBER:

E101

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ISSUE DATE: 07/28/2023

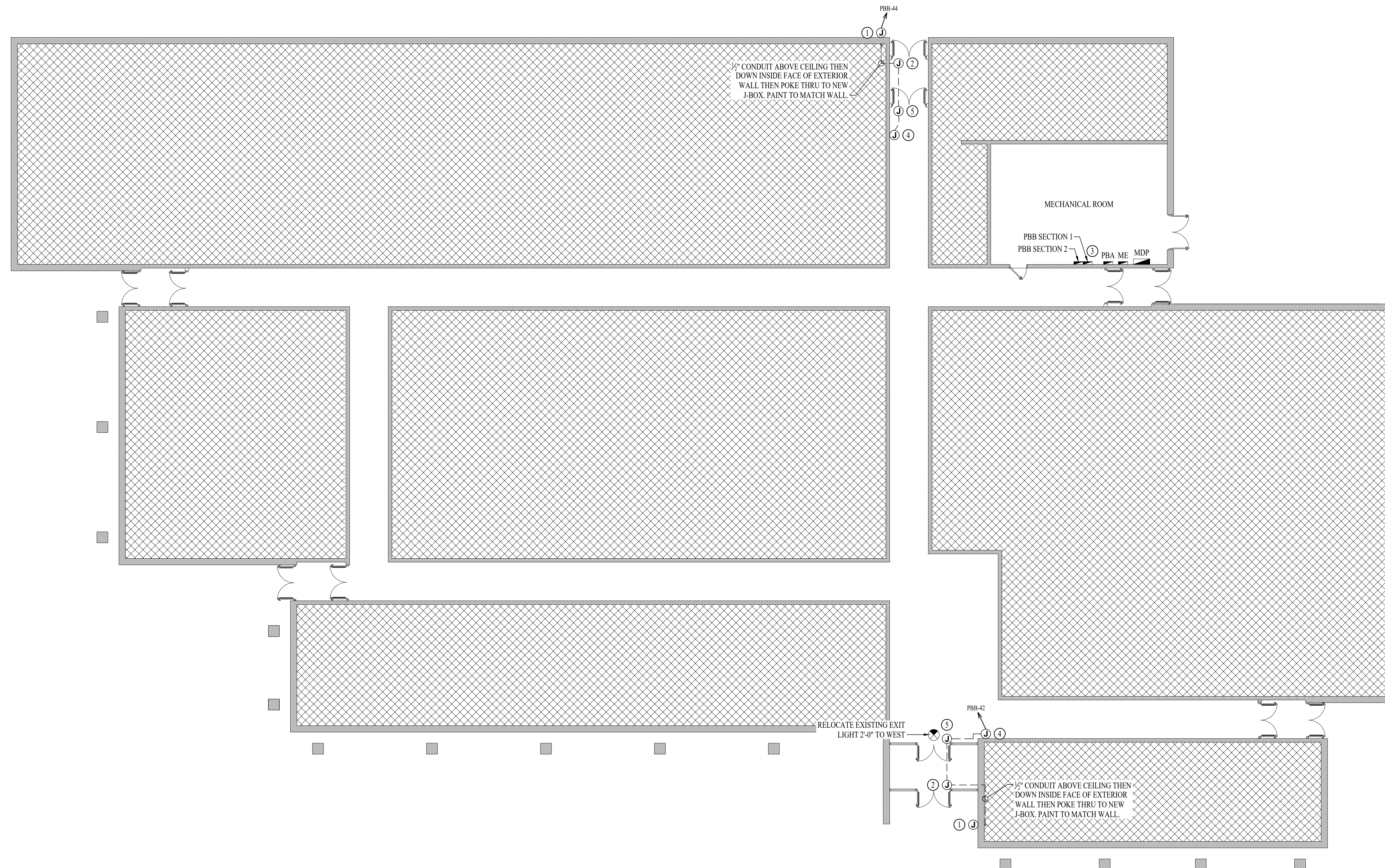


POWER PLAN GENERAL NOTES:

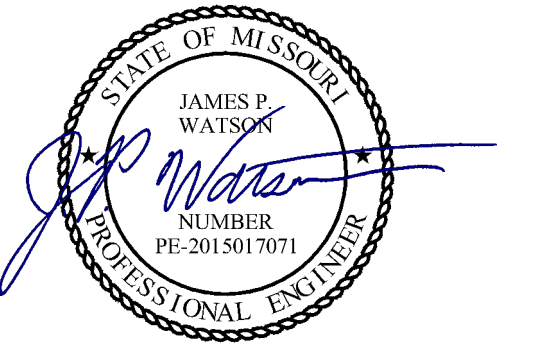
1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL DETAILS, & SCHEDULES.

POWER PLAN KEY NOTES:

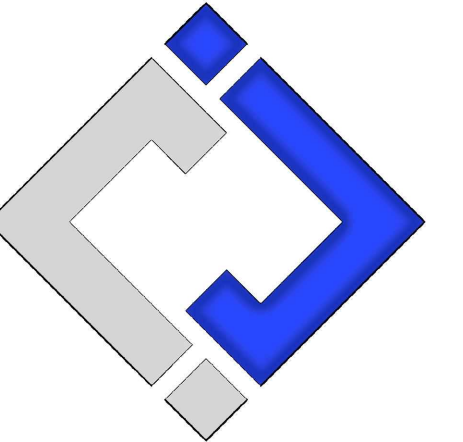
- ① J-BOX FOR WALL-MOUNTED AUTOMATIC DOOR ACTUATOR.
- ② J-BOX ABOVE CEILING FOR AUTOMATIC DOOR OPENER. RUN CONDUIT DOWN VERTICAL MULLION TO ADA OPERATOR.
- ③ INSTALL NEW 20-1 BREAKER IN EXISTING PANEL BREAKER SLOTS 42 & 44.
- ④ 1/2" SURFACE-MOUNT CONDUIT DOWN TO ADA PUSH BUTTON BACK BOX. PAINT TO MATCH WALL.
- ⑤ J-BOX ABOVE CEILING FOR AUTOMATIC DOOR OPENER. RUN CONDUIT FROM J-BOX SURFACE-MOUNTED TO INTERIOR WALL THEN TO ADA OPERATOR.



POWER PLAN - USPFO BUILDING
 SCALE: 3/32" = 1'-0"



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CAD DWG FILE: J20972
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: JAP

SHEET TITLE:

**POWER PLAN -
USPFO BUILDING**

SHEET NUMBER:

E102

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ISSUE DATE: 07/28/2023

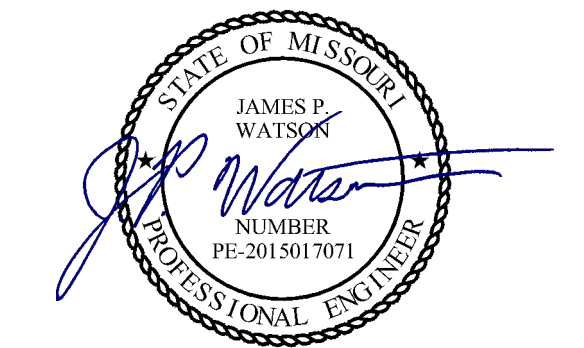
GENERAL MEP SPECIFICATIONS

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH HIS TRADE REGARDLESS OF WHERE THE WORK IS DEPICTED IN THE DRAWINGS OR SPECIFICATIONS.
2. THE LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND WILL NEED TO BE COORDINATED IN FIELD. THE CONTRACTOR SHALL INCLUDE THIS COORDINATION IN HIS SCOPE AND INCLUDE ALL COSTS OF MODIFYING THE LAYOUT AS REQUIRED IN HIS BID.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS.
4. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURE'S PUBLISHED INSTRUCTIONS.
5. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
7. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE PROJECT IS TURN OVER TO THE OWNER, UNLESS NOTED OTHERWISE.
8. CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, AND TAPS ASSOCIATED WITH THEIR WORK.
9. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE.
10. THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSION, ARCHITECTURAL SHALL GOVERN.
11. SEE DISCIPLINE SHEETS FOR ADDITIONAL DISCIPLINE SPECIFIC SPECIFICATIONS.

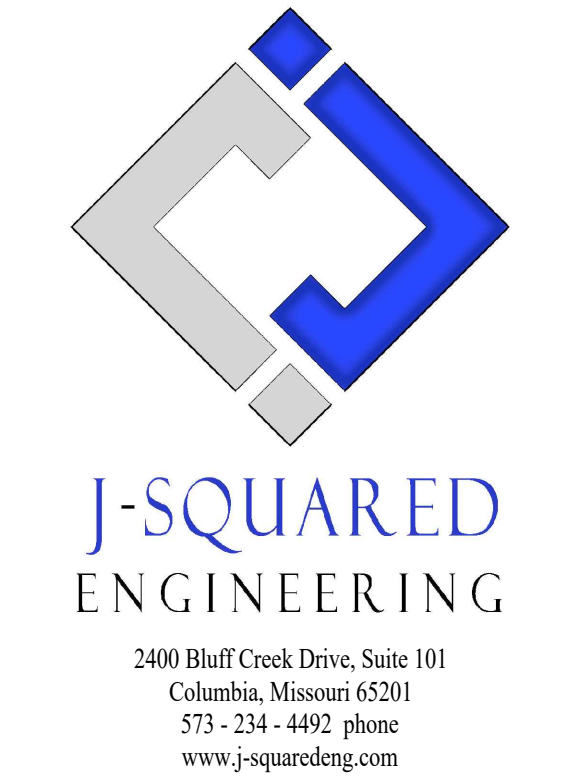
ELECTRICAL SPECIFICATIONS

1. GENERAL
 - 1.1. THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
2. MATERIALS
 - 2.1. CONDUIT & CONDUCTORS
 - 2.1.1. ALL CONDUCTORS SIZES INDICATED ON PLANS ARE COPPER UNLESS NOTED OTHERWISE.
 - 2.1.2. BELOW GRADE CONDUCTORS SHALL BE XHHW-2.
 - 2.1.3. MINIMUM CONDUCTOR SIZE SHALL BE #12 UNLESS NOTED OTHERWISE. 120V, 20 AMP CIRCUITS WITH CONDUCTOR LENGTH GREATER THAN 100' SHALL BE MINIMUM #10. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
 - 2.1.4. SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR BELOW GRADE INSTALLATIONS

LIGHT FIXTURE SCHEDULE										
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
P1	WILLIAMS	OSA8R-L22-8-40-AC-DT-PAB-DIM-UNV	8" ROUND BOLLARD	GRADE	2204	4000	80	120	27	CONTRACTOR TO MATCH EXISTING BOLLARDS ON SITE.
NOTES: 1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION										



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SHEET TITLE:

ELECTRICAL
DETAILS &
SCHEDULES

SHEET NUMBER:

E501

11 OF 11 SHEETS
ISSUE DATE: 07/28/2023

