

BINGHAM HALL -

UPDATE COURTYARD AREA

FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

ISSUED FOR BID

12/22/2025

CP231011

INTERNATIONAL ARCHITECTS ATELIER

THE ARCHITECT'S SEAL ON THESE CONTRACT DOCUMENTS HAS BEEN AFFIXED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 327, RSMO. IN AFFIXING THIS SEAL, THE ARCHITECT TAKES RESPONSIBILITY FOR THE ATTACHED ARCHITECTURAL DRAWINGS. THE ARCHITECT HEREBY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR PROJECT DRAWINGS OTHER THAN THESE, INCLUDED IN THE PROJECT DOCUMENTS, THEY BEING THE RESPONSIBILITY OF THE OTHER DESIGN PROFESSIONALS, WHOSE SEALS AND STATEMENTS APPEAR HEREIN.

STATE OF MISSOURI
MAJID AMIRAHMADI
NUMBER A-7405077
ARCHITECT

MAJID AMIRAHMADI, AIA
INTERNATIONAL ARCHITECTS ATELIER

12-22-2025

I, MAJID AMIRAHMADI, MISSOURI REGISTERED ARCHITECT, DO HEREBY ACCEPT PROFESSIONAL RESPONSIBILITY FOR THE ATTACHED ARCHITECTURAL DRAWINGS. I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DRAWINGS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS, THEY BEING THE RESPONSIBILITY OF OTHER PROFESSIONALS.

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12-22-2025

MAJID AMIRAHMADI, AIA
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STATE OF MISSOURI · MATTHEW AARON KRIETE · NUMBER PE-2007002811 · ENGINEER

12/22/2025

MATTHEW KRIETE, PE
ENGINEERING SURVEYS & SERVICES

PROFESSIONAL DISCLAIMER | AA21

I, WAYNE E. DAVIS, MISSOURI REGISTERED ENGINEER, DO HEREBY ACCEPT PROFESSIONAL RESPONSIBILITY FOR THE ATTACHED STRUCTURAL DRAWINGS. I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DRAWINGS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS, THEY BEING THE RESPONSIBILITY OF OTHER PROFESSIONALS.

STATE OF MISSOURI · WAYNE EDWARD DAVIS · NUMBER 2006018755 · PROFESSIONAL ENGINEER

12-22-25

WAYNE E. DAVIS, PE
BOB D. CAMPBELL & CO.

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I, BOB G. BUSHYHEAD, MISSOURI REGISTERED LANDSCAPE ARCHITECT, DO HEREBY ACCEPT PROFESSIONAL RESPONSIBILITY FOR THE ATTACHED IRRIGATION DRAWINGS. I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DRAWINGS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS, THEY BEING THE RESPONSIBILITY OF OTHER PROFESSIONALS.

STATE OF MISSOURI · BOB GENE BUSHYHEAD · NUMBER LA-2002003007 · LANDSCAPE ARCHITECT

12-22-25

BOB G. BUSHYHEAD, PLA
LAND3 STUDIO

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I, RUSSELL VINSON, MISSOURI REGISTERED ENGINEER, DO HEREBY ACCEPT PROFESSIONAL RESPONSIBILITY FOR THE ATTACHED ELECTRICAL, AND PLUMBING DRAWINGS. I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DRAWINGS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS, THEY BEING THE RESPONSIBILITY OF OTHER PROFESSIONALS.

STATE OF MISSOURI · RUSSELL VINSON · NUMBER E-2011015810 · REGISTERED PROFESSIONAL ENGINEER

12-22-25

RUSSELL VINSON, PE
CUSTOM ENGINEERING

PROFESSIONAL DISCLAIMER | Q29

- SPOT ELEVATION
- PLAN NOTES
- NORTH ARROW
- DEMO NOTES
- REVISION TAG
- SPAN DIRECTION
- 1-A101 — CALLOUT

EXTERIOR ELEVATION MARKER: 1 / A101 — DRAWING NUMBER, SHEET NUMBER

BUILDING SECTION MARKER: 1 / A101 — DRAWING NUMBER, SHEET NUMBER

WALL SECTION MARKER: 1 / A101 SIM — DRAWING NUMBER, SHEET NUMBER

DETAIL SECTION MARKER: 1 / A101 SIM — DRAWING NUMBER, SHEET NUMBER

ARCHITECTURAL SYMBOLS | Q21

A

A/E	ARCHITECT/ENGINEER
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
ADJC	ADJACENT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)

B

BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOT	BOTTOM
BS	BOTH SIDES
BTW	BETWEEN

C

CEN	CENTER
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEARANCE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINU(E)(OUS)(ATION)
CR	CARD READER
CW	CURTAIN WALL

D

D	DEEP, DEPTH
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DWG(S)	DRAWINGS

E

EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL(AL)
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EXCL	EXCLUDE
(E), EXIST	EXISTING
EXP	EXPAND
EXT	EXTERIOR
EXTR	EXTERIOR

F

FD	FLOOR DRAIN
FDN	FOUNDATION
FLR	FLOOR(ING)
FO	FACE OF
FT	FOOT,FEET
FTG	FOOTING

G

GA	GAUGE
GC	GENERAL CONTRACTOR

H

H	HIGH, HEIGHT
HT	HEIGHT
HD	HEAD
HDW	HARDWARE
HORIZ	HORIZONTAL
HR	HANDRAIL(S)

I

ID	INSIDE DIAMETER/DIMENSION
IN	INCH(ES)
INCL	INCLU(DE)(DED)(DING)
INSUL	INSULAT(E)(ED)
INT	INTERIOR
INTR	INTERIOR

J

JT	JOINT

L

L	ANGLE
LENGTH	LONG, LENGTH
LT	LIGHT
LTG	LIGHTING
LVL	LEVEL

M

MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL(LY)
MET	METAL
MFR	MANUFACTURER
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT(D)	MOUNT(ED)

N

N/A	NOT APPLICABLE
NEC	NECESSARY
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE

O

OC	ON CENTER
OD	OUTSIDE DIAMTER/DIMENSION
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFVI	OWNER FURNISHED VENDOR INSTALLED
OPG	OPENING
OPP	OPPOSITE
OPT	OPTION(AL)

P

PAR	PARALLEL
PERIM	PERIMETER
PL	PLATE
PNL	PANEL
PR	PAIR
PTD	PAINTED
PTN	PARTITION

Q

QTY	QUANTITY

R

R	RADIUS, RADII
R	RISER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFER(ENCE)
REINF	REINFORC(E)(ED)(ING)
REQD	REQUIRED
REV	REVIS(E)(ED)(ION)
RM	ROOM
RO	ROUGH OPENING

S

SECT	SECTION
SF	SQUARE FOOT/FEET
SIM	SIMILAR
SPEC(S)	SPECIFICATION(S)
SPK	SPEAKER
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUC	STRUCTUR(E)(AL)
SYM	SYMMETR(Y)(ICAL)

T

T	TREAD
TEMP	TEMPORARY
TME	TO MATCH EXISTING
TO	TOP OF
TYP	TYPICAL

U

UNO	UNLESS NOTED OTHERWISE

V

VAR	VAR(Y)(IES)(IATION)
VERT	VERTICAL
VIF	VERIFY IN FIELD

W

W	WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WSCT	WAINSCOT

X

XP(D)	EXPOSE(D)

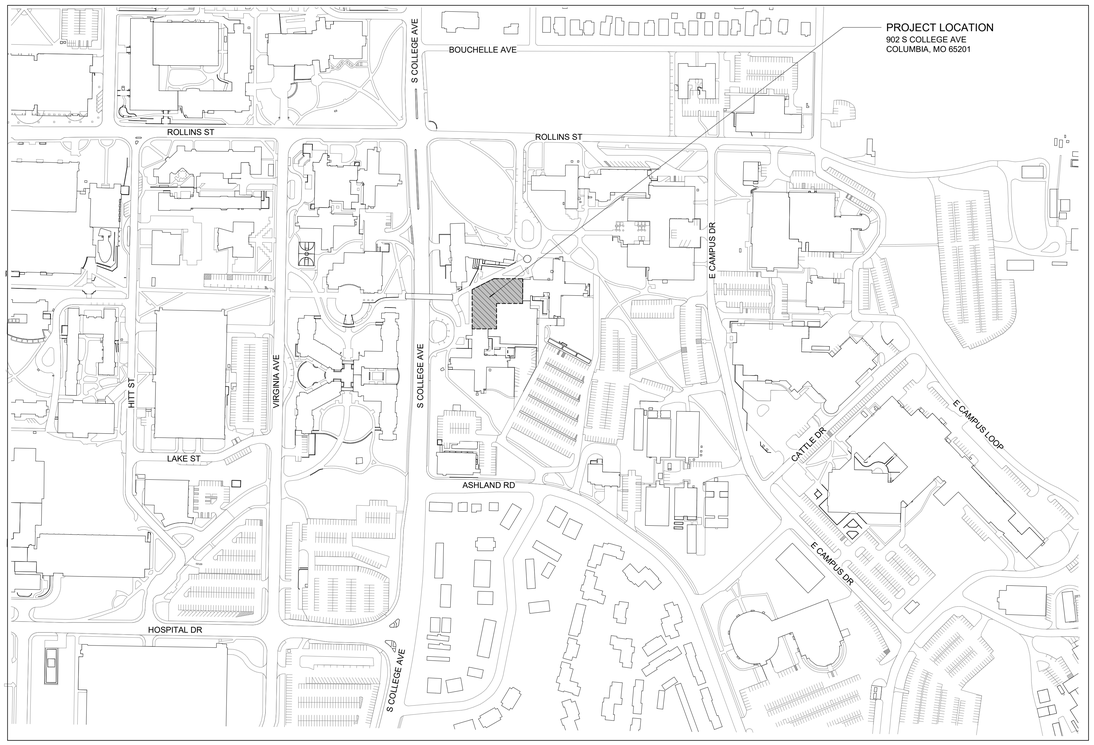
ABBREVIATIONS | Q12

1. ALL WORK SHALL COMPLY WITH FEDERALLY MANDATED ADA REQUIREMENTS OF THE STATE OF MISSOURI AND ALL APPLICABLE CODES AND STANDARDS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND DRAWINGS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL USE EXTREME CARE AND TAKE PRECAUTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ADJACENT FACILITIES. ANY DAMAGE DONE TO EXISTING FACILITIES DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST TO THE OWNER.
4. ALL DIMENSIONS ARE NOMINAL AND ARE FINISH TO FINISH OR FACE TO FACE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS. COORDINATE DUMPSTER LOCATION AND ACCESS WITH OWNER'S REPRESENTATIVE.
6. SHOULD ANY DOUBT OR QUESTION ARISE WITH RESPECT TO THE TRUE MEANING OF THE DRAWINGS OR SPECIFICATIONS, REFERENCE SHALL BE MADE TO THE ARCHITECT WHOSE DECISIONS THEREON SHALL BE FINAL AND CONCLUSIVE.
7. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY DIRECTIONAL SIGNAGE AS WELL AS CONSTRUCTION SIGNAGE NOTIFYING THE PUBLIC OF CONSTRUCTION LIMITS.
8. CONTRACTOR SHALL NOT ENGAGE IN ANY ACTIVITY WHICH MAY ENDANGER THE PUBLIC.
9. CONTRACTOR IS REQUIRED, PRIOR TO THE START OF CONSTRUCTION, TO SURVEY THE AREAS WHICH WOULD BE AFFECTED BY THE CONSTRUCTION FOR DOCUMENTATION OF EXISTING DAMAGES.
10. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE TO PROVIDE THE CONTRACTOR WITH APPROXIMATE SIZES AND ARE NOT INTENDED TO BE USED FOR CONSTRUCTION PURPOSES. ALL DIMENSIONS SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

GENERAL NOTES | X1

1. PRIOR TO COMMENCING DEMOLITION WORK, THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND MAKE PROVISION THAT NO INTERRUPTION OF SERVICES OCCUR TO OTHER BUILDINGS. COORDINATE ANY SERVICE INTERRUPTIONS WITH OWNER.
2. ALL MATERIALS NOT REQUIRED TO BE REMOVED FOR THE EXECUTION OF THE PROJECT SHALL BE LEFT IN PLACE AND PROTECTED FROM DAMAGE DURING DEMOLITION OR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
3. THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITIONS OF ITEMS TO BE DEMOLISHED.
4. CUT AND REMOVE/REPLACE ALL PORTIONS OF EXISTING CONSTRUCTION AS REQUIRED TO ALLOW ACCESS TO ITEMS NOTED FOR DEMOLITION AND FOR PROPER INSTALLATION OF NEW CONSTRUCTION.
5. AT ANY TIME DURING DEMOLITION, IF ANY CONTRACTOR DISCOVERS HAZARDOUS MATERIALS, STOP WORK AND NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY.
6. LEAVE ALL MAJOR STRUCTURAL COLUMNS AND BEAMS UNDISTURBED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL SURVEY THE CONDITION OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE REMAINING. IF ANY SUCH CONDITION EXISTS, OR RESULTS DURING THE PROCESS OF DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND ARCHITECT IMMEDIATELY.
7. ALL DASHED LINES ON DRAWINGS INDICATE ITEMS TO BE REMOVED, U.N.O.
8. ALL DEMOLITION MUST REMAIN INSIDE CONSTRUCTION LIMITS, U.N.O.
9. RETAIN AND PROTECT ALL SALVAGEABLE MATERIALS SELECTED BY OWNER AND ARCHITECT FOR REUSE ELSEWHERE. CONTRACTOR SHALL CATALOG ALL MATERIAL REMOVED FOR SALVAGE WITH ORIGINAL LOCATION AND LOCATION OF STORAGE. ALL SALVAGED MATERIALS SHALL BE CLEANED AND STORED IN A DRY PLACE ON THE SITE, ELEVATED OFF THE GROUND WITH ADEQUATE AIR FLOW AND PROTECTION FROM THE WEATHER AS NECESSARY.
10. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN/ADJOINING CONSTRUCTION.
11. CONTRACTOR SHALL COMPLETELY REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE. AL DEMOLISHED MATERIALS WILL BECOME PROPERTY OF THE CONTRACTOR UNLESS THEY ARE TO BE REUSED, OR AS OTHERWISE NOTED OR INSTRUCTED, AND TO BE DISPOSED OF LEGALLY. REMOVE DEBRIS, RUBBISH, AND OTHER MATERIALS FROM CONSTRUCTION SITE.
12. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK REQUIRED FOR ONE TRADE WITH OTHER TRADES THAT WILL BE AFFECTED BY THAT WORK.

GENERAL DEMOLITION NOTES | Q1



0' 100' 200' 400'

VICINITY MAP | B19

SCALE: 1" = 200'-0"

APPLICABLE CODES

2024 International Building Code (IBC)
2024 International Plumbing Code (IPC)
2024 International Mechanical Code (IMC)
2023 National Electrical Code (NFPA 70 / NEC)
2017 ICC A117.1 - Accessible and Usable Facilities Code
2010 ADA Standards of Accessible Design
University of Missouri Consultant Procedures and Guidelines

APPLICABLE CODES | H9

ALTERNATE #1: PROVIDE AREA 'B' WITH CONCRETE PAVING, MODULAR WEATHERING STEEL PLANTING WALLS WITH INTEGRATED BENCHES AND SWING BENCH SEATING. PROVIDE POWER AND LIGHTING ASSOCIATED WITH THE AREA INDICATED, RE: ELECT.

ALTERNATE #2: PROVIDE SANDBLASTED CONCRETE TEXTURE IN PATTERN INDICATED.

ALTERNATE #3: PROVIDE AREA 'C' WITH CONCRETE PAVING, CONCRETE WALLS WITH INTEGRATED BENCHES. PROVIDE POWER AND LIGHTING ASSOCIATED WITH THE AREA INDICATED, RE: ELECT.

ALTERNATE #4: PROVIDE CATENARY LIGHTING SCHEME IN LIEU OF BASE BID LIGHTING SCHEME, RE: ELECT.

ALTERNATE #5: PROVIDE AREA 'A' WITH CONCRETE PAVING AND SWING BENCH SEATING.

ALTERNATES | B9

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C4.02 GRADING & DRAINAGE PLAN - ALTERNATE 1 SEATING AREA "B"
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L502 SITE SECTIONS & DETAILS
L503 SITE SECTIONS & DETAILS
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E600 ELECTRICAL SCHEDULES & DETAILS

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P100 PLUMBING PLAN

SHEET INDEX | B1

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FOR THE CURATORS OF
THE UNIVERSITY OF MISSOURI

BINGHAM HALL - UPDATE COURTYARD AREA

ISSUED FOR BID

902 S COLLEGE AVE
COLUMBIA, MO 65201

DATE:	12/22/2025
PROJ. NO.:	CP231011
DESIGNED BY:	AO
DRAWN BY:	AO
CHECKED BY:	AS
APPROVED BY:	MA

SEAL:

STATE OF MISSOURI · MAJID AMIRAHMADI · NUMBER A-5053077 · ARCHITECT

12-22-2025

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NO.	REVISION SUBMISSION	DATE
0	ISSUED FOR BID	12/22/2025

GENERAL INFORMATION

G001

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12/14/2025 9:25:00 AM



12/14/2025 9:25:01 AM

SITE ACCESS AND STAGING PLAN | B6
SCALE: 1" = 50'-0"

NOTES | B1

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FOR THE CURATORS OF
THE UNIVERSITY OF MISSOURI

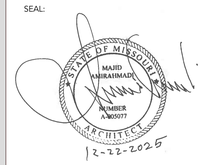
BINGHAM HALL - UPDATE COURTYARD AREA

ISSUED FOR BID

902 S COLLEGE AVE
COLUMBIA, MO 65201

DATE:	12/22/2025
PROJ. NO.:	CP231011
DESIGNED BY:	AO
DRAWN BY:	AO
CHECKED BY:	AS
APPROVED BY:	MA

SEAL:



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SITE ACCESS AND STAGING

G002

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UNIVERSITY OF MISSOURI
BINGHAM COURTYARD UPDATES

COLUMBIA, BOONE COUNTY, MISSOURI
UNIVERSITY OF MISSOURI PROJECT #CP231011
NOVEMBER 18, 2025

FOR INFORMATIONAL

UTILITY NOTES

THE LOCATIONS, SIZES, AND MATERIAL TYPES OF UNDERGROUND UTILITIES INDICATED ON THE PLAT, NOT VISIBLE OR APPARENT FROM THE SURFACE, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS FROM A MISSOURI ONE CALL SYSTEM LOCATE, OR UTILITY COMPANY RECORDS AND WERE NOT VERIFIED IN THE FIELD. UNDERGROUND UTILITY SERVICES TO BUILDINGS WERE NOT LOCATED.

WATER
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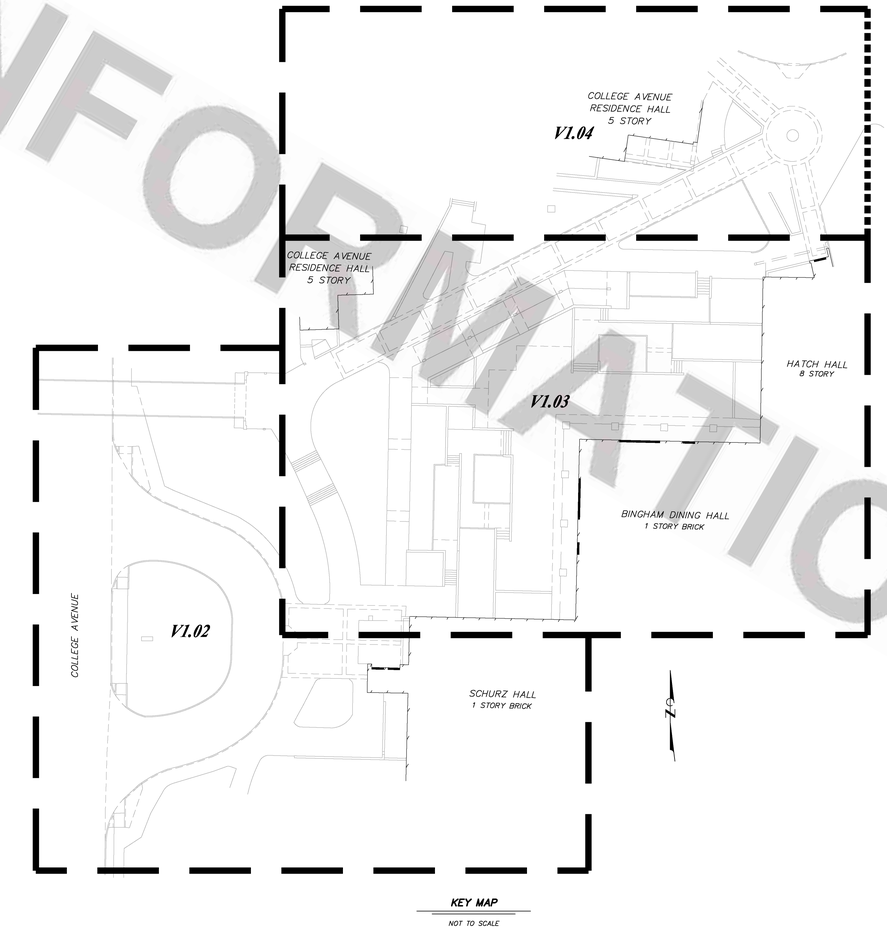
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STORM SEWER
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FLOODPLAIN NOTE

THIS PROPERTY IS LOCATED IN ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN BY FLOOD INSURANCE RATE MAP NUMBER 29019C0280E, DATED APRIL 19, 2017.



KEY MAP

NOT TO SCALE

LEGEND

PROPERTY	PROPERTY LINE
UE	UNDERGROUND ELECTRIC LINE
UT	UNDERGROUND TELECOMMUNICATIONS LINE
UFO	UNDERGROUND FIBER OPTIC LINE
S	SANITARY SEWER LINE
SS	STORM SEWER LINE
W	WATER LINE
CW	CHILLED WATER LINE
755	EXISTING CONTOUR
CP#	CONTROL POINT
BO	BOLLARD
BL	BOLLARD LIGHT
CMP	CORRUGATED METAL PIPE
DC	DOOR CONTROL
DI	DUCTILE IRON PIPE
EM	ELECTRIC METER
EPB	ELECTRIC PULLBOX
FH	FIRE HYDRANT
FPB	FIBER OPTIC PULLBOX
FL	FLOW LINE
LS	LIGHT STANDARD
PVC	POLYVINYL CHLORIDE PIPE
RD	ROOF DRAIN
TW	TOP OF WALL
UP	UTILITY POLE
URD	UNDERGROUND ROOF DRAIN
VCP	VITRIFIED CLAY PIPE
WLH	WATER LAWN HYDRANT
WV	WATER VALVE

SURVEY CONTROL POINTS

MODIFIED STATE PLANE COORDINATES
NAND 83, MISSOURI CENTRAL ZONE, AMD 88, U.S. SURVEY FEET

POINT #	NORTH	EAST	ELEVATION	DESCRIPTION
CP1	1131291.66	1691098.00	771.70	IRON
CP4	1131318.85	1691243.70	776.72	DRILL HOLE
CP5	1131315.27	1691216.26	775.74	DRILL HOLE
CP6	1131427.00	1691222.12	782.72	DRILL HOLE
CP7	1131397.79	1691303.65	768.45	DRILL HOLE
CP8	1131407.02	1691295.74	768.10	DRILL HOLE
CP9	1131493.41	1691371.14	776.45	IRON

BENCHMARK

BM – MISSOURI DEPARTMENT OF TRANSPORTATION VRS NETWORK

TBM 1 – CHISELED MARK ON SOUTH SIDE OF LIGHT STANDARD BASE LOCATED 120 FEET WEST OF THE NORTHWEST CORNER OF SCHURZ HALL

ELEVATION =770.47

TBM 2 – CHISELED MARK IN THE NORTH RIM OF A SANITARY MANHOLE LOCATED 45 FEET EAST OF COLLEGE AVENUE RESIDENCE HALL

ELEVATION =773.35

NOTES:
1. ACCURATE ELEVATIONS HAVE BEEN SURVEYED AS SHOWN. CONTOURS SHOWN ARE INTERPOLATED BASED ON THESE ELEVATIONS.
2. THIS DOES NOT CONSTITUTE A BOUNDARY SURVEY SUITABLE FOR RECORDING AS DEFINED BY THE CURRENT MISSOURI STANDARDS FOR BOUNDARY SURVEYS.
3. NO TITLE WORK WAS PERFORMED, EASEMENTS AND OTHER SPECIAL CONDITIONS AFFECTING THE PROPERTY MAY NOT BE SHOWN.

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UNIVERSITY OF MISSOURI
BINGHAM COURTYARD UPDATES
UNIVERSITY OF MISSOURI PROJECT #CP231011
COLUMBIA, BOONE COUNTY, MISSOURI

11/18/2025

STATE OF MISSOURI
FREDERICK EMIL CARROZ III
NUMBER PLS-2008016655
PROFESSIONAL LAND SURVEYOR

FREDERICK E. CARROZ III
PROFESSIONAL LAND SURVEYOR
PLS - 2008016655

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BINGHAM HALL - UPDATE COURTYARD AREA

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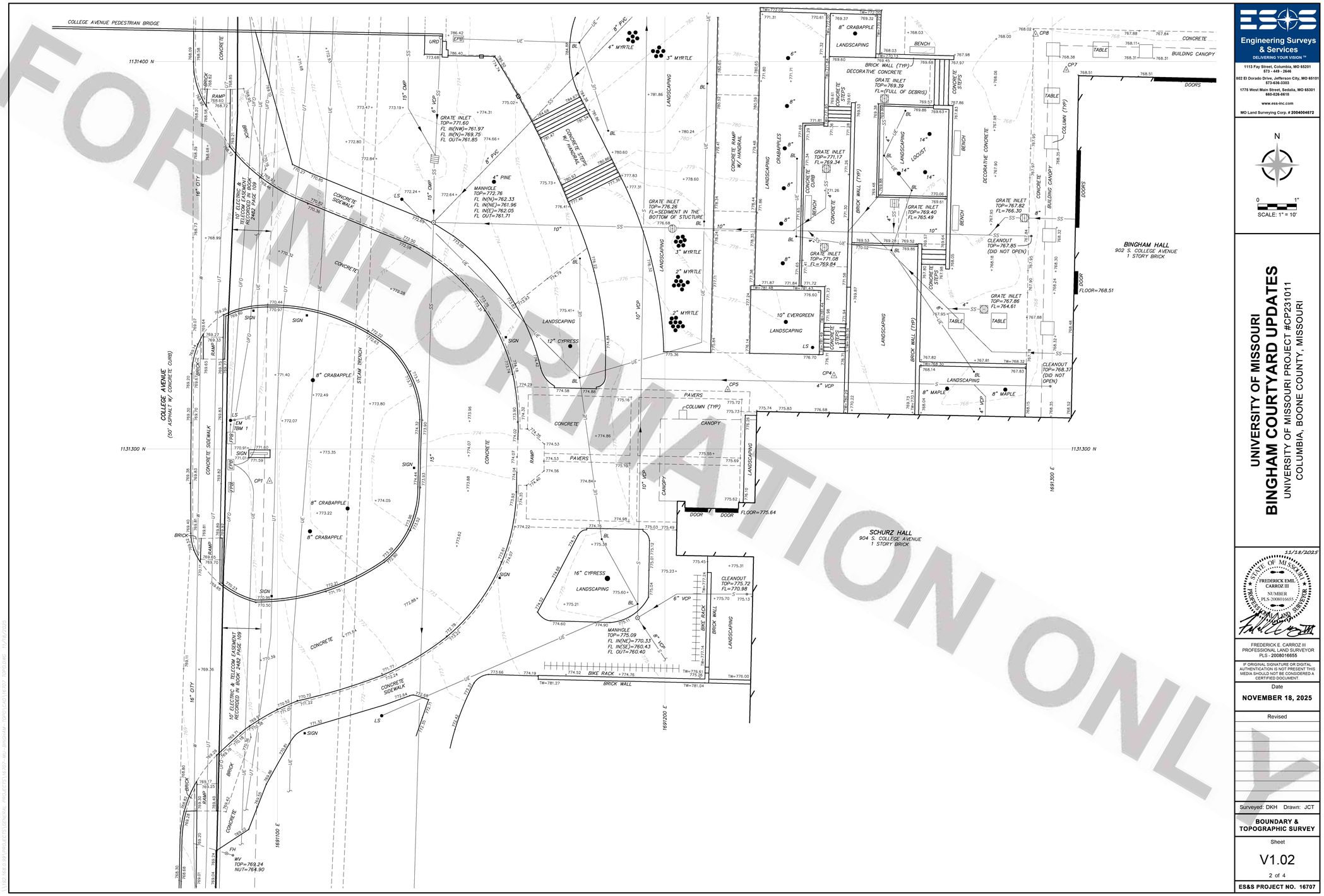
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BINGHAM COURTYARD UPDATES
UNIVERSITY OF MISSOURI PROJECT #CP231011
COLUMBIA, BOONE COUNTY, MISSOURI

11/18/2025
STATE OF MISSOURI
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BINGHAM HALL - UPDATE COURTYARD AREA

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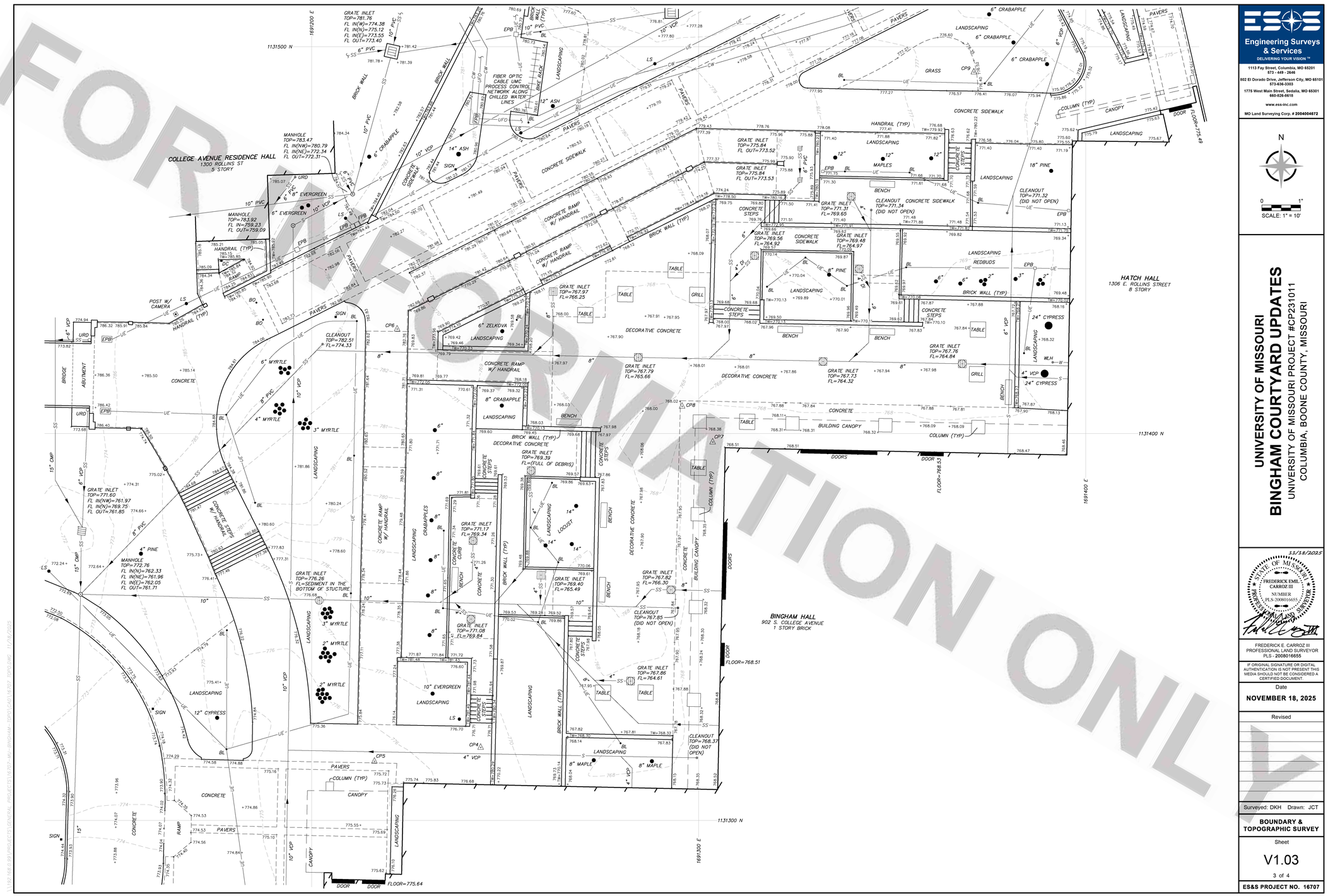
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UNIVERSITY OF MISSOURI PROJECT #CP231011
COLUMBIA, BOONE COUNTY, MISSOURI

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FREDERICK E. CARROZ III
PROFESSIONAL LAND SURVEYOR
PLS - **2008016655**

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FOR THE CURATORS OF
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BINGHAM HALL - UPDATE COURTYARD AREA

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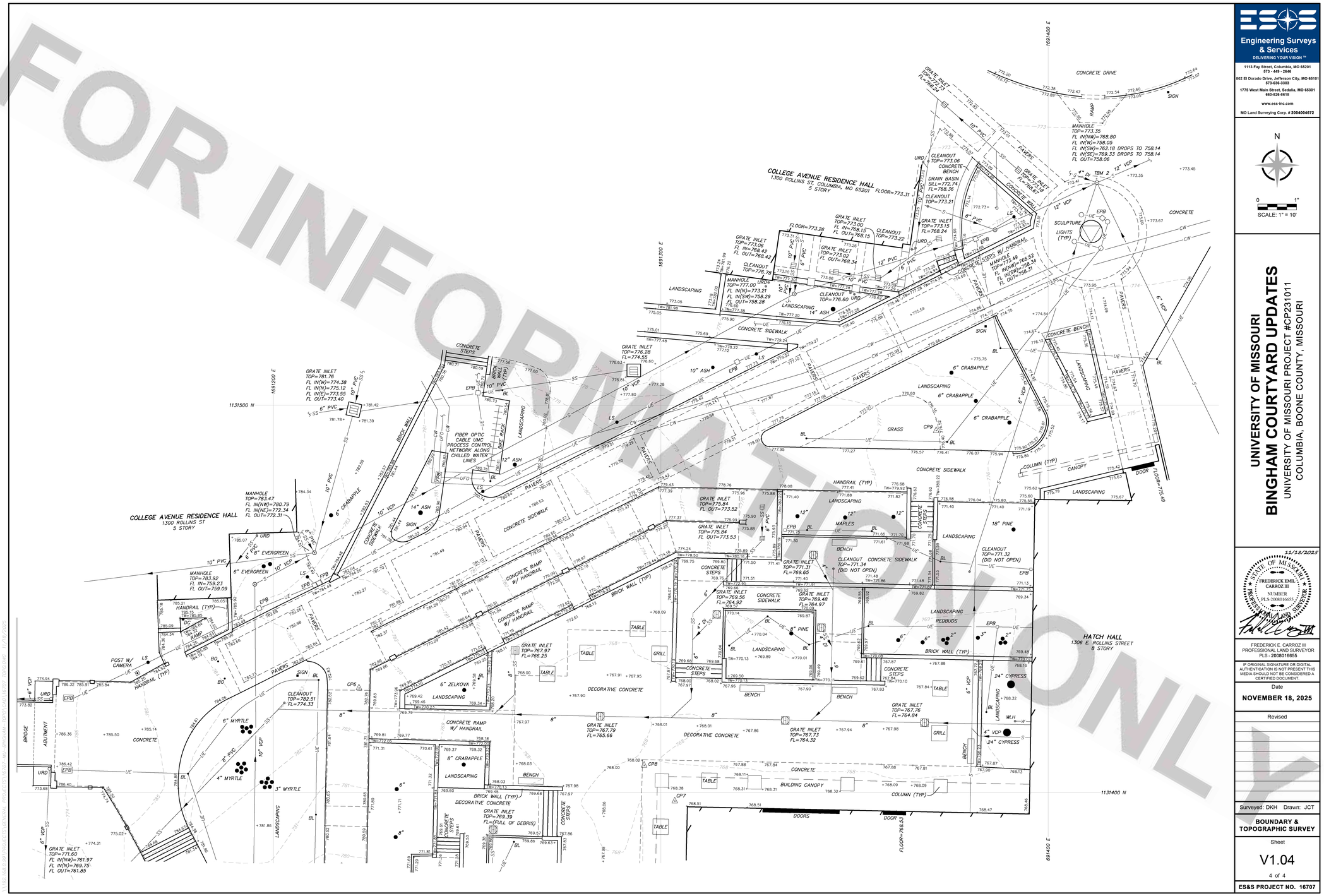
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UNIVERSITY OF MISSOURI, COLUMBIA, BOONE COUNTY, MISSOURI

11/18/2025

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FOR THE CURATORS OF
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BINGHAM HALL - UPDATE COURTYARD AREA

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SEQUENCE OF EVENTS

1. CONFIRM LOCATION OF ALL EXISTING UTILITIES WITHIN AREAS TO BE DISTURBED.
2. ESTABLISH CONSTRUCTION FENCING, CONSTRUCTION EXIT AND STAGING AREA, AND TEMPORARY TRAFFIC CONTROL.
3. ESTABLISH PERIMETER EROSION AND SEDIMENT CONTROLS.
4. BEGIN CLEARING/GRUBBING AND STOCKPILE TOPSOIL IN AREAS INDICATED ON PLANS.
5. BEGIN DEMOLITION OF WALLS AND SITE IMPROVEMENTS PER PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE SITE AND SURROUNDING AREAS, INCLUDING EXCAVATION STABILITY, DUST CONTROL, AND ABATEMENT OF ANY HAZARDOUS MATERIALS THAT MAY BE PRESENT.
6. CONSTRUCT NEW STORM SEWER DISCHARGE PIPE TO EXISTING SYSTEM. ABANDON EXISTING STORM SEWERS AND FILL WITH GROUT PER PLANS. NEW DISCHARGE PIPE AND STRUCTURE SHALL BE FULLY OPERATIONAL PRIOR TO DISCONNECTION AND ABANDONMENT OF EXISTING SITE STORM SEWERS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WATER/FLOOD DAMAGE TO BUILDINGS.
7. CONSTRUCT REMAINING SITE STORM SEWERS, DOWNSPOUT AND AREA DRAINS, AND MODULAR SUSPENDED PAVEMENT SYSTEM PER PLANS AND CONNECT TO DISCHARGE PIPE. INSTALL INLET PROTECTION ON ALL INLETS AS THEY ARE CONSTRUCTED.
8. CONSTRUCT SITE AMENITIES, INCLUDING NEW WALLS, PAVEMENT, LANDSCAPING, IRRIGATION, AND SITE LIGHTING PER ARCHITECTURAL AND MEP PLANS.
9. PROVIDE TEMPORARY OR PERMANENT SEEDING/MULCHING ONCE GRADES ESTABLISHED AND STORM INLETS INSTALLED.
10. REMOVE AND REPAVE SITE DRIVEWAY AND CURB & GUTTER PER PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO DRIVEWAY OR ADJACENT AREAS TO SITE CAUSED BY CONSTRUCTION ACTIVITIES AND EQUIPMENT.
11. ESTABLISH PERMANENT SITE STABILIZATION PRIOR TO REMOVAL OF TEMPORARY EROSION CONTROL AND INLET PROTECTION. PERMANENT STABILIZATION IS DEFINED AS WHEN 70% PERMANENT VEGETATION OR PERMANENT MATERIALS (BUILDINGS, PAVEMENT, ETC.) COVER ALL DISTURBED AREAS.
12. REMOVE ALL CONSTRUCTION EQUIPMENT, REMAINING ITEMS INDICATED TO BE REMOVED, DEBRIS AND RUBBISH FROM SITE. REMOVE CONSTRUCTION FENCING AND TEMPORARY TRAFFIC CONTROLS.

CONSTRUCTION NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL IDENTIFIED PROPERTY CORNERS, LAND SURVEY CORNERS, AND ACCESSORIES. THE CONTRACTOR SHALL CAUSE THE CORNERS AND ACCESSORIES TO BE REFERENCED BY A LICENSED LAND SURVEYOR, AND ANY SUCH CORNER OR ACCESSORIES DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE RESET BY THE SURVEYOR AT THE ORIGINAL LOCATION, AND FILE THE RESTORATIONS AND MONUMENT DOCUMENTS AS THE LAW REQUIRES.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEERING SURVEYS AND SERVICES FOR REVIEW AND APPROVAL FOR ALL MATERIALS BEFORE ORDERING.
5. ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF SIDEWALK, OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
6. ALL PAVEMENT SHALL BE CONSTRUCTED AS PER UNIVERSITY OF MISSOURI SPECIFICATIONS.
7. CONTRACTOR SHALL OBTAIN PERMIT FROM THE CITY OF COLUMBIA TO WORK WITHIN STREET RIGHT-OF-WAY.
8. ALL STRIPING SHALL BE 4" WIDE WHITE LINES ON ASPHALT PAVEMENT AND 4" WIDE YELLOW LINES ON CONCRETE PAVEMENT, ACCESSIBLE SPACES SHALL BE 4" WIDE BLUE LINES. ALL STRIPING SHALL BE A MINIMUM OF 2 COATS.
9. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
10. DRIVEWAY PAVEMENT SHALL BE CONCRETE UNLESS OTHERWISE NOTED. INTEGRAL CURB MAY BE USED FOR CONCRETE PAVEMENT.
11. TOPS OF EXISTING ELECTRIC, SANITARY, STORM, WATER, TELECOMMUNICATION, GAS, IRRIGATION, CHILLED WATER, AND STEAM STRUCTURES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED FINISHED ELEVATIONS.
12. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 P.S.I.
13. PVC CONDUIT SHALL BE SCHEDULE 40 PVC WITH LONG SWEEPS ONLY (36" MINIMUM RADIUS) AND CONTAIN PULLTAPE, UNLESS OTHERWISE NOTED.
14. ALL TRAFFIC CONTROL SHALL BE PER CURRENT MUTCD REQUIREMENTS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. A TRAFFIC CONTROL PLAN WILL BE REQUIRED FOR ANY WORK WITHIN THE RIGHT-OF-WAY.
15. CONTRACTOR SHALL NOTIFY ADJACENT PROPERTY OWNERS IN WRITING 30 DAYS PRIOR TO CONSTRUCTION.
16. IF A CONFLICT EXISTS BETWEEN THE CIVIL PLANS AND CIVIL SPECIFICATIONS, THE CIVIL PLANS SHALL GOVERN.
17. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE BUILDING AND SITE DEVELOPMENT RIGHT-OF-WAY TECHNICIAN (874-7474) IMMEDIATELY PRIOR TO ANY CLOSURE OF STREET OR SIDEWALK CLOSURE.
18. ALL INCIDENTAL ITEMS INCLUDING BUT NOT LIMITED TO SIGNS, PAVEMENT MARKING, PAVEMENT, CURBS, TRUNCATED DOMES, FENCING, LANDSCAPING, IRRIGATION, ETC. EITHER DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE RETURNED TO ORIGINAL CONDITIONS BY THE CONTRACTOR.

STORM WATER POLLUTION PREVENTION PLAN NOTES

1. CONTRACTOR SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES. A COPY OF THIS PLAN AND SWPPP SHALL REMAIN ON SITE THROUGHOUT CONSTRUCTION.
2. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND APPROVAL HAS BEEN RECEIVED FROM ALL GOVERNING AUTHORITIES.
3. IMMEDIATELY UPON COMPLETION OF FINISH GRADING IN EACH AREA, ALL LANDSCAPING AREAS SHALL BE STABILIZED PER PLANS AND/OR SPECIFICATIONS.
4. SHOULD CONSTRUCTION STOP FOR LONGER THAN 14 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED IN THE SWPPP.
5. SITE INSPECTION SHOULD OCCUR ON A REGULAR SCHEDULE AND WITHIN 24 HOURS OF A STORM EVENT OF 0.25 INCHES OR GREATER. REGULARLY SCHEDULED INSPECTION SHALL BE A MINIMUM OF ONCE EVERY 7 CALENDAR DAYS. ANY DEFICIENCIES SHALL BE NOTED IN A WEEKLY REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE REPORT.
6. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
7. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
8. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
9. CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
10. ALL SLOPES GREATER THAN 3:1 SHALL BE REINFORCED BY NORTH AMERICAN GREEN P300 PERMANENT TURF REINFORCEMENT MAT OR APPROVED EQUAL.
11. ALL ROLLED EROSION CONTROL MATS, BIONETS, BLANKETS, ETC. SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. INSTALLATION SHALL RESULT IN A PRODUCT THAT IS TIGHTLY SECURED TO THE GROUND THAT FORCES RUNOFF TO DRAIN OVER, NOT UNDER, THE PRODUCT. GRASS SHALL BE PLANTED PRIOR TO PRODUCT PLACEMENT SO IT WILL GROW THRU THE BLANKET. ALL ASPECTS OF THE PRODUCT SHALL BE FIRMLY SECURED TO THE GROUND SO IT CAN BE MOWED OVER WITHOUT GETTING TANGLED IN THE MOWER.
12. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS, TREES & BRUSH AND OTHER MATERIAL CREATED AS A RESULT OF THE CONSTRUCTION WORK AND THE SITE SHALL BE RETURNED TO ITS ORIGINAL CONDITION.
13. ALL PERIMETER LANDSCAPED AREAS SHALL BE GRASS COVERED.
14. THE SITE CONTRACTOR SHALL INCLUDE MAINTENANCE OF ALL BMP'S AS PART OF THEIR CONTRACT AND SHALL BE RESPONSIBLE FOR THE PROJECT UNTIL FINAL STABILIZATION. FINAL STABILIZATION SHALL BE DEFINED AS EITHER PERENNIAL VEGETATION, PAVEMENT, BUILDINGS, OR STRUCTURES USING PERMANENT MATERIALS COVERING ALL AREAS THAT HAVE BEEN DISTURBED. VEGETATIVE COVER SHOULD BE AT LEAST 70% OF FULLY ESTABLISHED PLANT DENSITY OVER 100% OF THE DISTURBED AREA.

GRADING AND STORM SEWER CONSTRUCTION NOTES

1. ALL STORM SEWER PIPES AND INLETS SHALL MEET HEAVY DUTY TRAFFIC (HS20) LOADING AND BE INSTALLED ACCORDINGLY.
2. CONCRETE STORM SEWER INLETS & JUNCTION BOXES SHALL BE INSTALLED PER UNIVERSITY OF MISSOURI SPECIFICATIONS AND AS DETAILED IN THESE PLANS.
3. PIPE SIZES 12 INCHES OR SMALLER SHALL BE SDR 26 PVC. PIPE SIZES GREATER THAN 12 INCHES SHALL BE HDPE. RCP MAY BE SUBSTITUTED FOR HDPE.
4. ALL HDPE PIPE SHALL BE ADS HP (HIGH PERFORMANCE PIPE), OR APPROVED EQUAL. INSTALLATION SHALL FOLLOW THE "EMBEDMENT OF PLASTIC STORM SEWER PIPE" DETAIL.
5. PVC PIPE SHALL BE A MIN. SDR26 WITH GASKETED JOINTS. INSTALLATION SHALL FOLLOW THE "EMBEDMENT OF PLASTIC STORM SEWER PIPE" DETAIL.
6. INLINE DRAIN AND DRAIN BASINS SHALL BE NYLOPLAST, HARCO, OR APPROVED EQUAL AND SHALL BE PVC CONFORMING TO ASTM D1784 CELL CLASS 12454. JOINTS SHALL BE WATER TIGHT FLEXIBLE ELASTOMERIC SEALS CONFORMING TO ASTM D3212. INLINE DRAIN AND DRAIN BASIN GRATES AND FRAMES SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05, OR 80-55-06.
7. CONTRACTOR SHALL ADJUST ALL GRATES, MANHOLES, VALVE BOXES, ETC. TO MATCH FINISH GRADES, AS REQUIRED.
8. ALL STRUCTURE CONNECTIONS SHALL BE WATERTIGHT.
9. UNDERDRAINS SHALL BE PERFORATED SDR 26 PVC PIPE, SURROUNDED BY 3" LAYER OF 1" # GRAVEL (ASTM C-33 NO. 57, DOUBLE WASHED STONE) AND WRAPPED WITH PERMEABLE GEOTEXTILE ENVELOPE.
10. ALL CONCRETE STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED CONCRETE INVERT FROM INVERT IN TO INVERT OUT.
11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE FLUSH WITH FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER". TOP OF BOXES SHALL BE SLOPED TO MATCH PAVEMENT GRADE.
12. PIPE LENGTHS ARE GIVEN FROM CENTER OF STRUCTURE.
13. ALL SITES USED FOR IMPORTING OR EXPORTING OF FILL MATERIAL SHALL HAVE AN ACTIVE MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND DISTURBANCE PERMIT, AS REQUIRED.
14. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS, TREES AND BRUSH, AND OTHER MATERIAL CREATED AS A RESULT OF CONSTRUCTION. MATERIAL SHALL BE DISPOSED OF IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. BURNING ON SITE SHALL BE ALLOWED BY PERMIT ONLY.
15. CONTRACTOR SHALL REMOVE ALL STUMPS BY EXCAVATING TO INCLUDE REMOVAL OF ASSOCIATED ROOT SYSTEM.
16. CONTRACTOR SHALL NOT ADVANCE TRENCH EXCAVATION BEYOND AMOUNT THAT CAN ACCOMMODATE PIPE INSTALLATION AND BACKFILLING AT THE END OF EACH DAY.
17. FILL SHOULD BE FREE OF FROZEN SOIL, ORGANICS, RUBBISH, LARGE ROCKS, WOOD, OR OTHER DELETERIOUS MATERIAL. COHESIVE FILLS SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE "STANDARD" MAXIMUM DRY DENSITY AND BE WITHIN -2 TO +4 PERCENT OF OPTIMUM MOISTURE CONTENT AS DESCRIBED BY ASTM D698. GRANULAR FILLS SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE "STANDARD" MAXIMUM DRY DENSITY. THE MOISTURE CONTENT SHOULD BE HIGH ENOUGH TO PROVIDE FOR PROPER COMPACTION BUT LOW ENOUGH TO PREVENT UNDUE PUMPING. PLACE FILL MATERIAL IN LOOSE LIFTS NOT TO EXCEED 8 INCHES IN THICKNESS.
18. ROCKS AND STONES THAT EXCEED THE THICKNESS OF THE LOOSE LIFT FILL LAYER SHOULD BE REMOVED AND DISPOSED OF OFF THE IMMEDIATE CONSTRUCTION AREA.
19. SOILS PROPOSED FOR USE AS FILL OR BACKFILL SHOULD BE REVIEWED AND ANALYZED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE ON SITE. SOIL CLASSIFIED AS MH, OH, OL, OR PT (HIGH PLASTICITY SOILS AND ORGANIC SOILS) BY THE UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D2487) SHOULD NOT BE IMPORTED FOR USE AS ENGINEERED FILL. SUITABLE IMPORTED MATERIALS FOR GENERAL SITE FILL ARE THOSE THAT CLASSIFY AS GW, GM, GC, SC, AND CL IN ACCORDANCE WITH ASTM D 2487. MATERIALS CLASSIFIED AS CH SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO THEIR IMPORTATION AND ONLY USED OUTSIDE THE BUILDING PAD AT DEPTHS BELOW THE UPPER 2 FEET OF SUBGRADE. SUBJECT TO FINAL DESIGN REQUIREMENTS FOR WALL BACKFILL, SUITABLE IMPORTED MATERIALS FOR WALL AND TRENCH BACKFILL ARE THOSE THAT CLASSIFY AS GW, GP, GM, GC, SM, SW, SP, SC, AND CL IN ACCORDANCE WITH ASTM D2487.
20. FILLS PLACED IN AREAS WHERE THE NATURAL SLOPE IS GREATER THAN 5H:1V (HORIZONTAL TO VERTICAL) SHOULD BE BENCHED INTO THE EXISTING GRADE TO REDUCE THE POTENTIAL FOR SLIPPAGE BETWEEN EXISTING SLOPES AND ENGINEERED FILL. BENCHES SHOULD BE LEVEL AND WIDE ENOUGH TO ACCOMMODATE COMPACTION AND EARTH MOVING EQUIPMENT.
21. FILL AND SUBGRADE CONSTRUCTION SHOULD NOT BE STARTED ON FOUNDATION SOIL, PARTIALLY COMPLETED FILL, OR SUBGRADES THAT CONTAIN FROST OR ICE. FILL SHOULD NOT BE CONSTRUCTED USING FROZEN SOIL. FROZEN SOIL SHOULD BE REMOVED PRIOR TO PLACING FILL MATERIAL.
22. PRIOR TO FILL PLACEMENT, AREAS TO BE FILLED SHALL BE PROOF ROLLED USING A LOADED TANDEM AXLE DUMP TRUCK TO IDENTIFY SOFT AND UNSUITABLE AREAS. SOFT MATERIAL MAY BE MOISTURE CONDITIONED AND REUSED AS ENGINEERED FILL, UNSUITABLE AND DELETERIOUS MATERIAL SHALL BE REMOVED FROM SITE.
23. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS, BACKFILL OF TRENCHES THROUGH ANY IMPROVED AREAS, SUCH AS STREET, DRIVES OR PARKING LOTS SHALL BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY (ASTM D-698).
24. ALL NEW UTILITY TRENCHES SHOULD BE BACKFILLED IN ACCORDANCE WITH APPROPRIATE CONTROLLED ENGINEERED FILL SPECIFICATIONS.
25. FIELD DENSITY TESTS SHOULD BE CONDUCTED IN ACCORDANCE WITH ASTM D6938 (NUCLEAR METHODS) OR ASTM D 1556 (SAND CONE METHOD). FIELD DENSITY TESTS SHOULD BE PERFORMED AT THE RATE OF ONE TEST PER 2,500 SQUARE FEET PER LIFT BENEATH PAVEMENTS, SIDEWALKS, AND OTHER POTENTIAL STRUCTURAL AREAS WITH A MINIMUM OF 3 TESTS PER LIFT AND ONE TEST PER 150 LINEAL FEET PER LIFT FOR FOUNDATION, TRENCH AND WALL BACKFILL.
26. PRIOR TO BASE ROCK PLACEMENT, PAVED AREAS SHALL BE PROOF-ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK TO IDENTIFY ANY SOFT OR UNSUITABLE AREAS, PRIOR TO BASE ROCK PLACEMENT. THE PROOF-ROLL SHALL BE OBSERVED BY THE PROJECT GEOTECHNICAL ENGINEER. AREAS IDENTIFIED AS UNSUITABLE SHALL BE OVER EXCAVATED AND RECONSTRUCTED WITH ENGINEERED FILL.
27. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS FOR ALL LANDSCAPED AND PAVED AREAS.
28. CONTRACTOR SHALL STOCKPILE TOPSOIL TO BE PLACED IN LANDSCAPE AREAS AT DEPTHS BELOW 18 INCHES FROM PROPOSED FINISHED SOIL GRADE. UPPER 18 INCHES OF TOPSOIL IN ALL LANDSCAPED AREAS SHALL BE PROVIDED BY OWNER AND PLACED BY THE CONTRACTOR. ANY EXCESS TOPSOIL SHALL BE DISPOSED OF PER OWNER.
29. PRIOR TO TOPSOIL PLACEMENT, ROUGH GRADE TO BE INSPECTED BY OWNER.

HAZARDOUS SUBSTANCE NOTE

1. SUBSTANCES REGULATED BY FEDERAL LAW UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) OR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) WHICH ARE TRANSPORTED, STORED OR USED FOR MAINTENANCE, CLEANING OR REPAIRS SHALL BE MANAGED ACCORDING TO THE PROVISIONS OF RCRA AND CERCLA.
2. ALL PAINTS, SOLVENTS, PETROLEUM PRODUCTS AND PETROLEUM WASTE PRODUCTS (EXCEPT FUELS) AND STORAGE CONTAINERS (SUCH AS DRUMS, CANS OR CARTONS) SHALL BE STORED SUCH THAT THESE MATERIALS ARE NOT EXPOSED TO STORM WATER. SUFFICIENT PRACTICES OF SPILL PREVENTION, CONTROL AND/OR MANAGEMENT SHALL BE PROVIDED TO PREVENT ANY SPILLS OF THESE POLLUTANTS FROM ENTERING A WATER OF THE STATE. ANY CONTAINMENT SYSTEM USED TO IMPLEMENT THIS REQUIREMENT SHALL BE CONSTRUCTED OF MATERIALS COMPATIBLE WITH THE SUBSTANCES CONTAINED AND SHALL ALSO PREVENT THE CONTAMINATION OF GROUNDWATER.
3. THE APPLICANT SHALL NOTIFY BY TELEPHONE AND IN WRITING THE DEPARTMENT OF NATURAL RESOURCES, WATER POLLUTION CONTROL PROGRAM, POST OFFICE BOX 176, JEFFERSON CITY, MO 65102, 1-800-361-4827, OF ANY OIL SPILLS OR IF HAZARDOUS SUBSTANCES ARE FOUND DURING THE PROSECUTION OF WORK UNDER THIS PERMIT.

STORM SEWER CLOSE OUT NOTES

STORM SEWER FIELD QUALITY CONTROL

INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. INSPECT AFTER APPROXIMATELY 24 INCHES OF BACKFILL IS IN PLACE, AND AGAIN AT COMPLETION OF PROJECT.

1. SUBMIT SEPARATE REPORT FOR EACH SYSTEM INSPECTION.
2. DEFECTS REQUIRING CORRECTION INCLUDE THE FOLLOWING:
   - 2.1. ALIGNMENT: LESS THAN FULL DIAMETER OF INSIDE OF PIPE IS VISIBLE BETWEEN STRUCTURES.
   - 2.2. DEFLECTION: FLEXIBLE PIPING WITH DEFLECTION THAT PREVENTS PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 92.5 PERCENT OF PIPING DIAMETER.
   - 2.3. DAMAGE: CRUSHED, BROKEN, CRACKED, OR OTHERWISE DAMAGED PIPING.
   - 2.4. INFILTRATION: WATER LEAKAGE INTO PIPING.
   - 2.5. EXFILTRATION: WATER LEAKAGE FROM OR AROUND PIPING.
3. REPLACE DEFECTIVE PIPING USING NEW MATERIALS, AND REPEAT INSPECTIONS UNTIL DEFECTS ARE WITHIN ALLOWANCES SPECIFIED.
4. REINSPECT AND REPEAT PROCEDURE UNTIL RESULTS ARE SATISFACTORY.
5. CLEAN DIRT AND SUPERFLUOUS MATERIAL FROM INTERIOR OF PIPING.

ADDITIONAL REQUIREMENT FOR STORM SEWER BORE (FUSIBLE PVC PIPE)

1. TEST NEW PIPING SYSTEMS, AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED, FOR LEAKS AND DEFECTS.
   - 1.1. MANDREL TEST - THE MANDREL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM F 679.
   - 1.2. VELOCITY TEST - A. THE CONTRACTOR WILL ADD SUFFICIENT WATER AT A POINT UPSTREAM OF THE SECTION TO BE TESTED. AFTER DESIRED FLOW IS REACHED, DYE OR SOME TYPE OF FLOATING OBJECT SUCH AS A PING PONG BALL, OR FISHING FLOAT, WILL BE PASSED THROUGH THE LINE. THE FLOAT WILL BE TIMED AS IT PASSES THROUGH THE SECTION. ANY LINE IN WHICH A VELOCITY OF 2.0 FEET PER SECOND CANNOT BE OBTAINED WILL NOT BE ACCEPTED.
   - 1.3. T.V. INSPECTION - PRIOR TO ACCEPTANCE OF THE SANITARY SEWER A T.V. CAMERA SHALL BE PASSED THROUGH THE LINE AND A VIDEO OF THE INSPECTION.
   - 1.4. AIR TESTS: TEST SANITARY SEWERAGE ACCORDING TO THE FOLLOWING:
     - 1.4.1. TEST PLASTIC GRAVITY PIPING ACCORDING TO ASTM F 1417.
2. SUBMIT SEPARATE REPORT FOR EACH TEST.
   - 2.1. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
   - 2.2. REPAIR LEAKING PIPING USING NEW MATERIALS, AND REPEAT TESTING UNTIL LEAKAGE IS WITHIN ALLOWANCES SPECIFIED.
   - 2.3. ALL TESTS SHALL BE PERFORMED BY THE CONTRACTOR AND IN THE PRESENCE OF THE UNIVERSITY INSPECTOR.

AS-BUILT SURVEY

1. AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO THE FINAL FIELD INSPECTION, AN "AS-BUILT" SURVEY OF THE PUBLIC STORM SYSTEM SHALL BE SUBMITTED TO THE UNIVERSITY IN DIGITAL CAD AND PDF FORMAT. PDF FORMAT SHALL INCLUDE THE SURVEYORS TITLE BLOCK. THIS SURVEY SHALL INCLUDE THE FOLLOWING:
   - 1.1. ALL PIPE SIZES AND PIPE MATERIAL, INCLUDING CASING PIPE IF APPLICABLE.
   - 1.2. ALL STRUCTURES.
   - 1.3. STORM PROFILE WITH FOLLOWING INFORMATION:
     - a. PIPE SIZE, MATERIAL, LENGTH AND SLOPE
     - b. STRUCTURE NUMBERS CORRESPONDING TO PLAN VIEW NUMBERS AND ELEVATIONS (TOP, INVERT IN, INVERT OUT, & TOP)

FLOODPLAIN NOTE

THIS PROPERTY IS LOCATED IN ZONE "X" AREA OF MINIMAL FLOOD HAZARD, AS SHOWN BY FLOOD INSURANCE RATE MAP NUMBER 29019C0280E, DATED APRIL 19, 2017.

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FOR THE CURATORS OF
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BINGHAM HALL - UPDATE COURTYARD AREA

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DRAWN BY:	SK
CHECKED BY:	SS
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SEAL:

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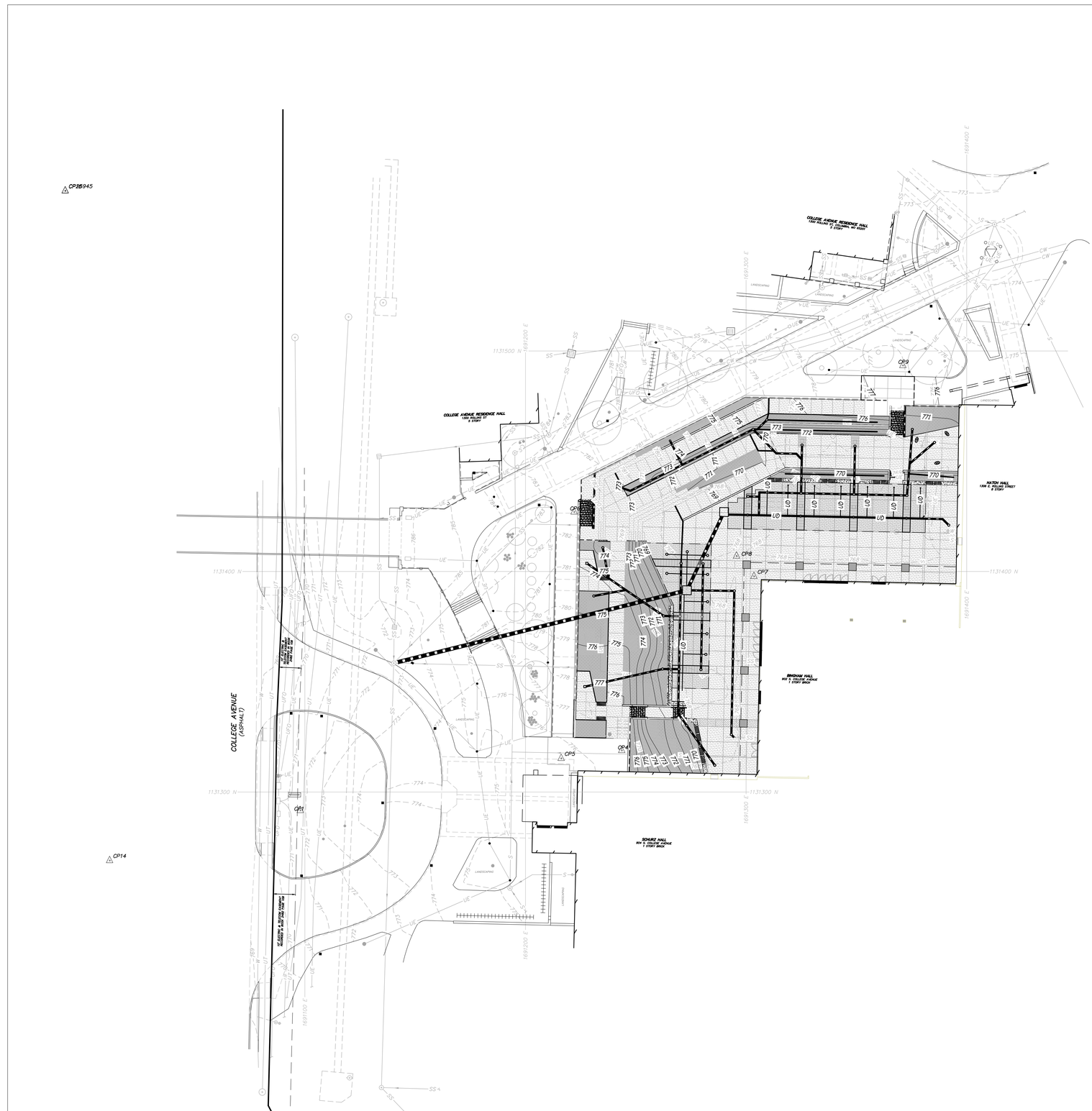
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CIVIL NOTES

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NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT TYPES, SURFACE TREATMENTS, JOINT LAYOUT, AND DETAILS.

0' 5' 10' 20'

DEMOLITION PLAN | B6
SCALE: 1" = 20'

NOTES | B1

LEGEND

- PROPERTY LINE
- UE — UNDERGROUND ELECTRIC LINE
- UT — UNDERGROUND TELECOMMUNICATIONS LINE
- UFO — UNDERGROUND FIBER OPTIC LINE
- S — SANITARY SEWER LINE
- SS — STORM SEWER LINE
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- PROPOSED STORM SEWER
- DEMOLITION LIMITS
- PRECAST CONCRETE FEATURE (SEE ARCH)
- LANDSCAPING BED
- MODULAR SUSPENDED PAVEMENT SYSTEM
- TREE GRATES

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PROFESSIONAL ENGINEER

MATTHEW A. KRIETE
PROFESSIONAL ENGINEER
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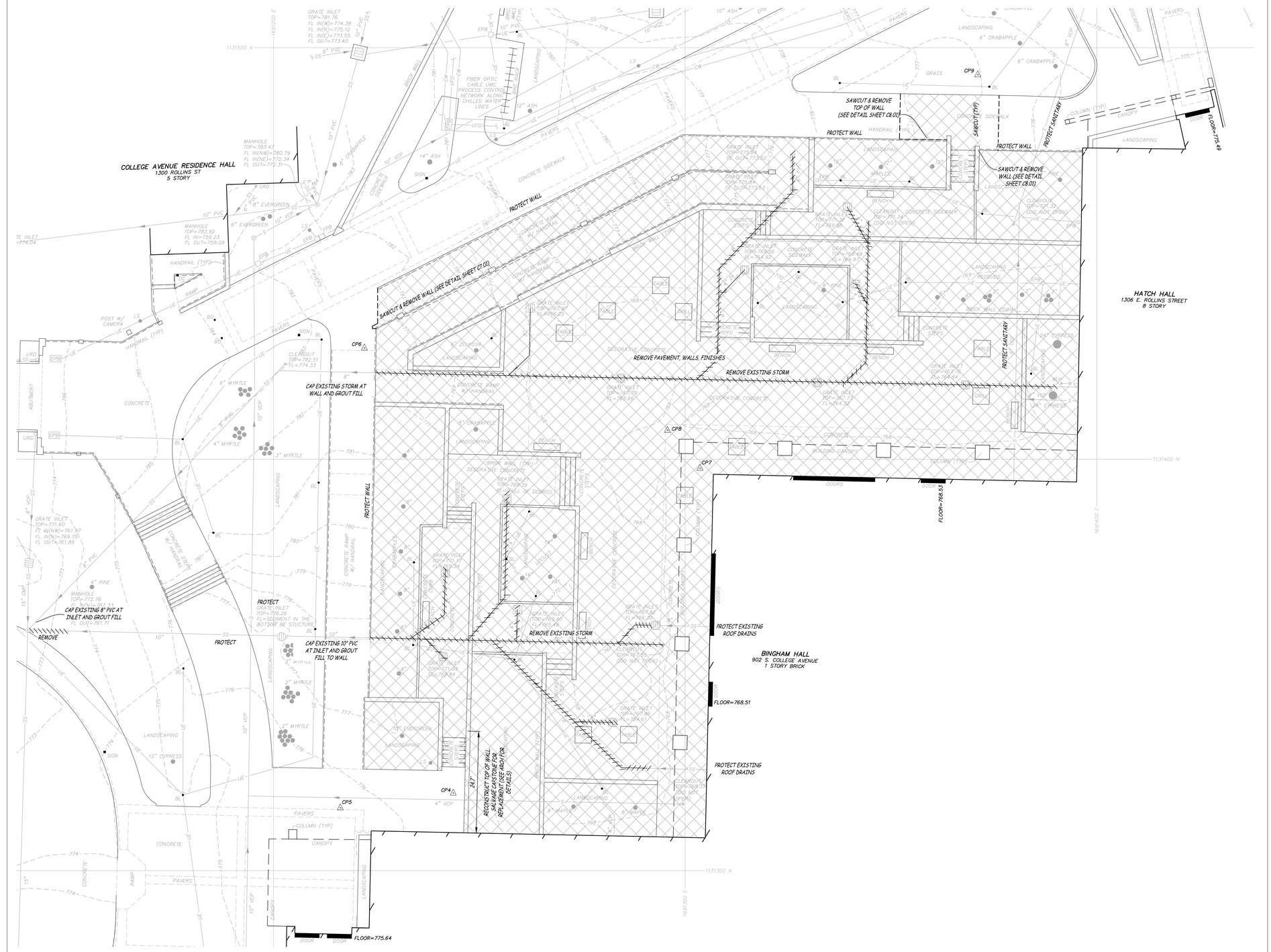
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OVERALL PLAN

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NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT TYPES, SURFACE TREATMENTS, JOINT LAYOUT, AND DETAILS.

0' 5' 10' 20'

1 DEMOLITION PLAN | B6
SCALE: 1" = 10'

NOTES | B1

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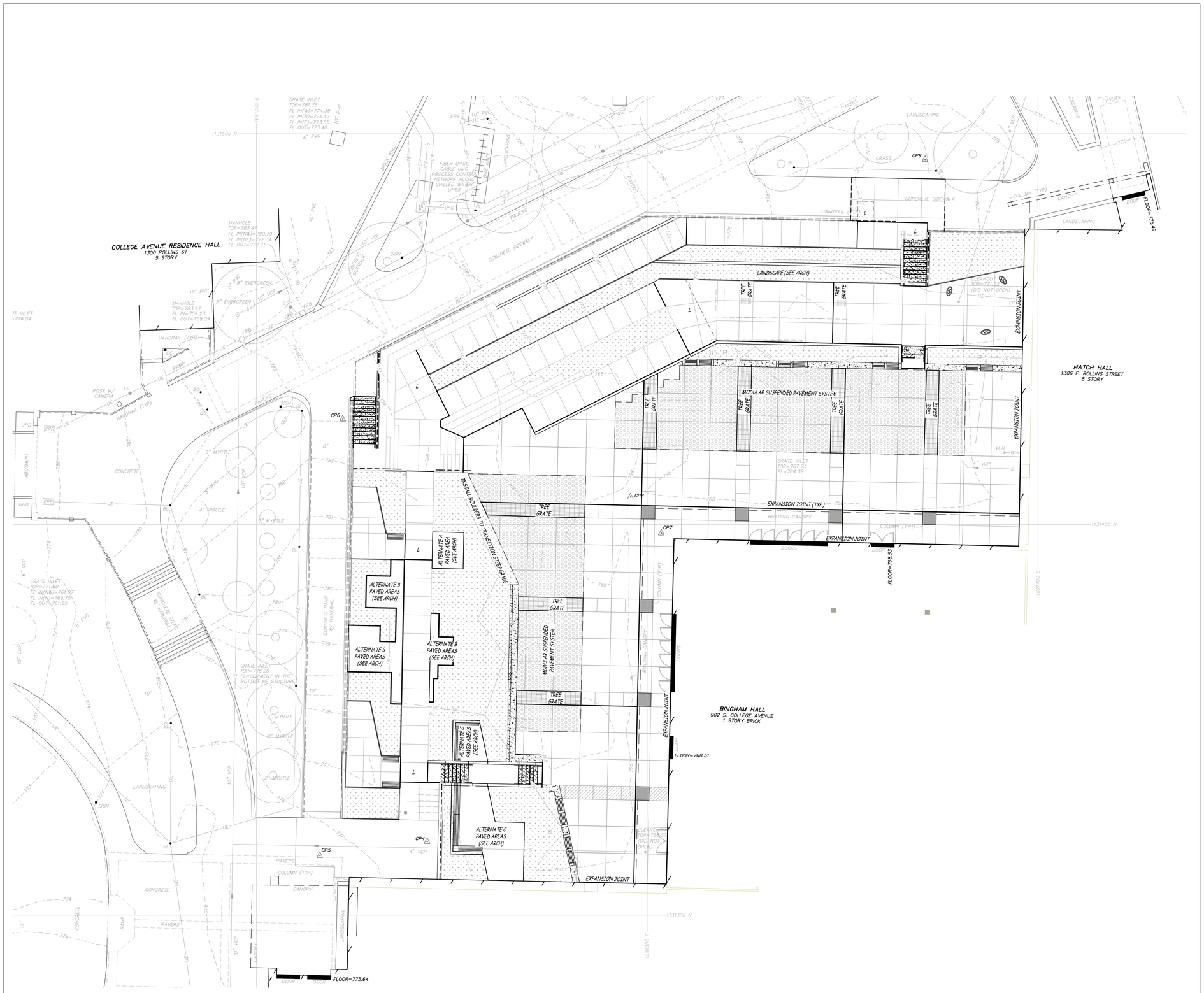
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DEMOLITION PLAN

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SITE PLAN | B6
SCALE: 1" = 10'

NOTES | B1

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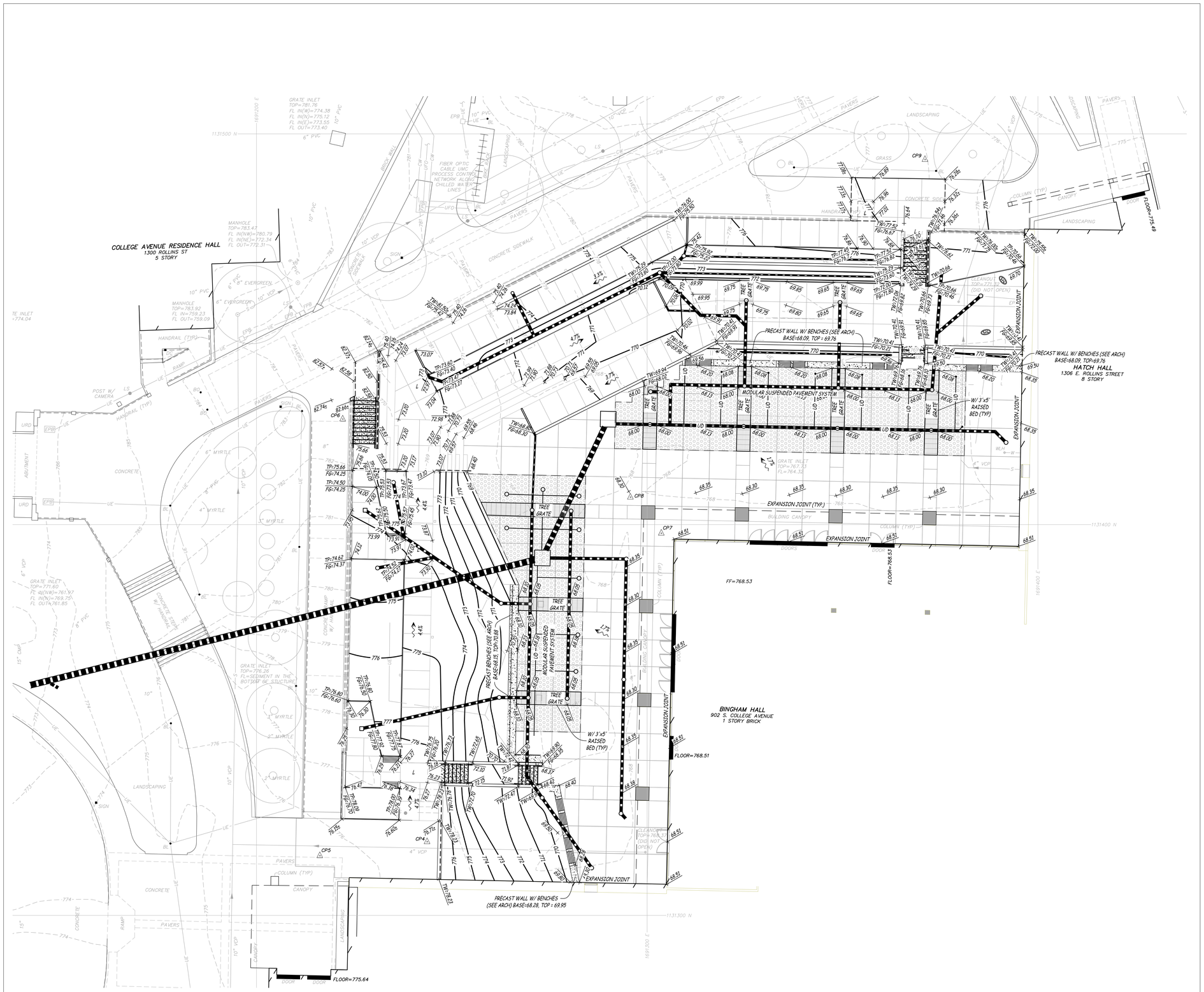
SITE PLAN

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0' 5' 10' 20'



0' 5' 10' 20'

GRADING & DRAINAGE PLAN | B6
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NOTES | B1

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- TW — TOP OF WALL
- UP — UTILITY POLE
- URD — UNDERGROUND ROOF DRAIN
- VCP — VITRIFIED CLAY PIPE
- WLH — WATER LAWN HYDRANT
- WV — WATER VALVE
- 750 — FINISH CONTOUR
- CB — CATCH BASIN
- DB — DRAIN BASIN
- ID — INLINE DRAIN
- UD — UNDERDRAIN
- L — LANDING
- R — RAMP
- PROPOSED SURFACE DRAINAGE
- PROPOSED STORM SEWER
- DEMOLITION LIMITS
- PRECAST CONCRETE FEATURE (SEE ARCH)
- LANDSCAPING BED
- MODULAR SUSPENDED PAVEMENT SYSTEM
- TREE GRATES

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BINGHAM HALL – UPDATE COURTYARD AREA

ISSUED FOR BID

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DESIGNED BY:	SS
DRAWN BY:	SK
CHECKED BY:	SS
APPROVED BY:	MK

SEAL:

12/12/2025

STATE OF MISSOURI
MATTHEW AARON KRIETE
NUMBER PE-2007002811
PROFESSIONAL ENGINEER

MATTHEW A. KRIETE
PROFESSIONAL ENGINEER
PE-2007002811

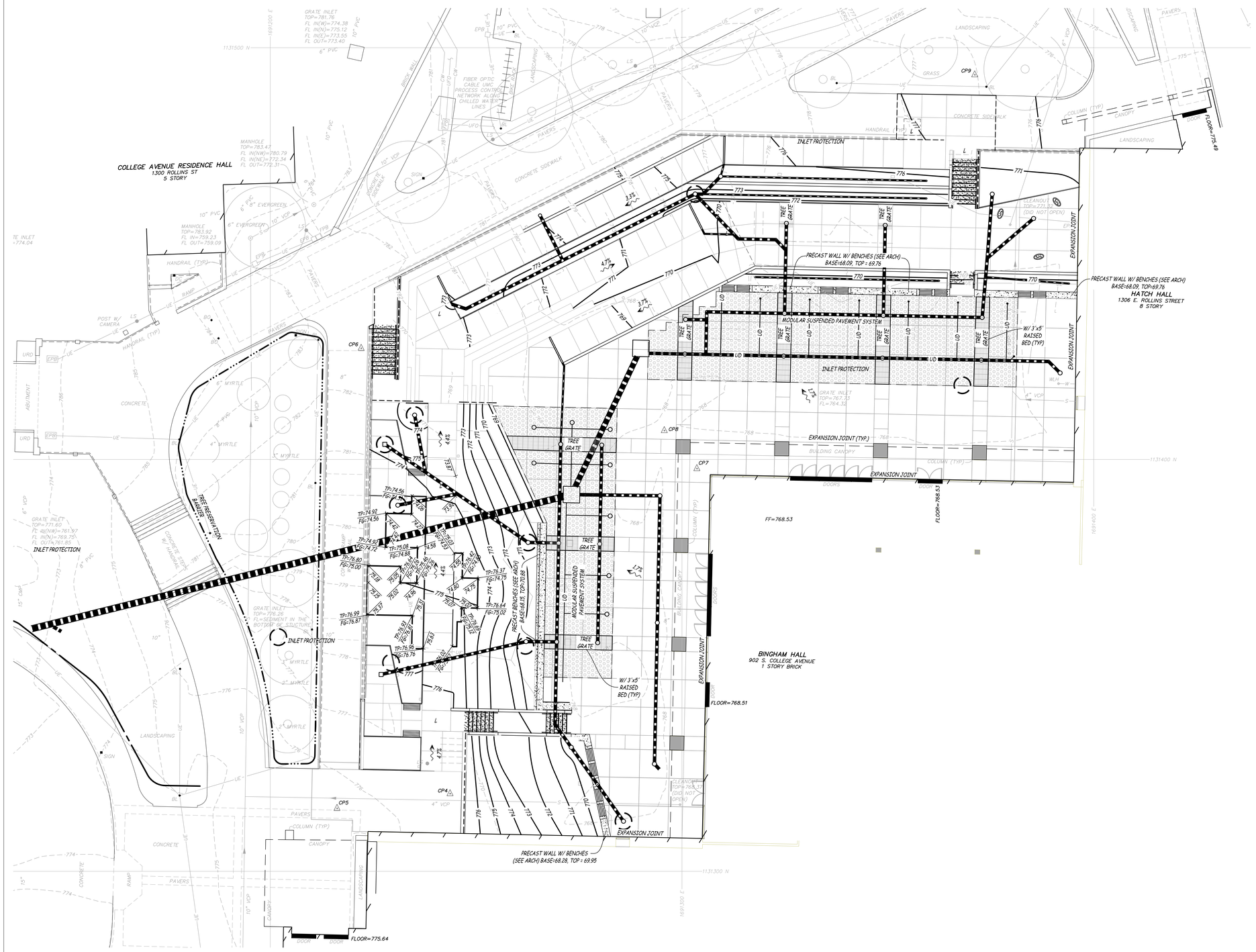
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GRADING & DRAINAGE PLAN – BASE BID

C4.01

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LEGEND

- PROPERTY LINE
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- TREE GRATES

0' 5' 10' 20'

GRADING & DRAINAGE PLAN | B6
SCALE: 1" = 10'

NOTES | B1

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BINGHAM HALL – UPDATE COURTYARD AREA

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NUMBER PE-2007002811
PROFESSIONAL ENGINEER

MATTHEW A. KRIETE
PROFESSIONAL ENGINEER
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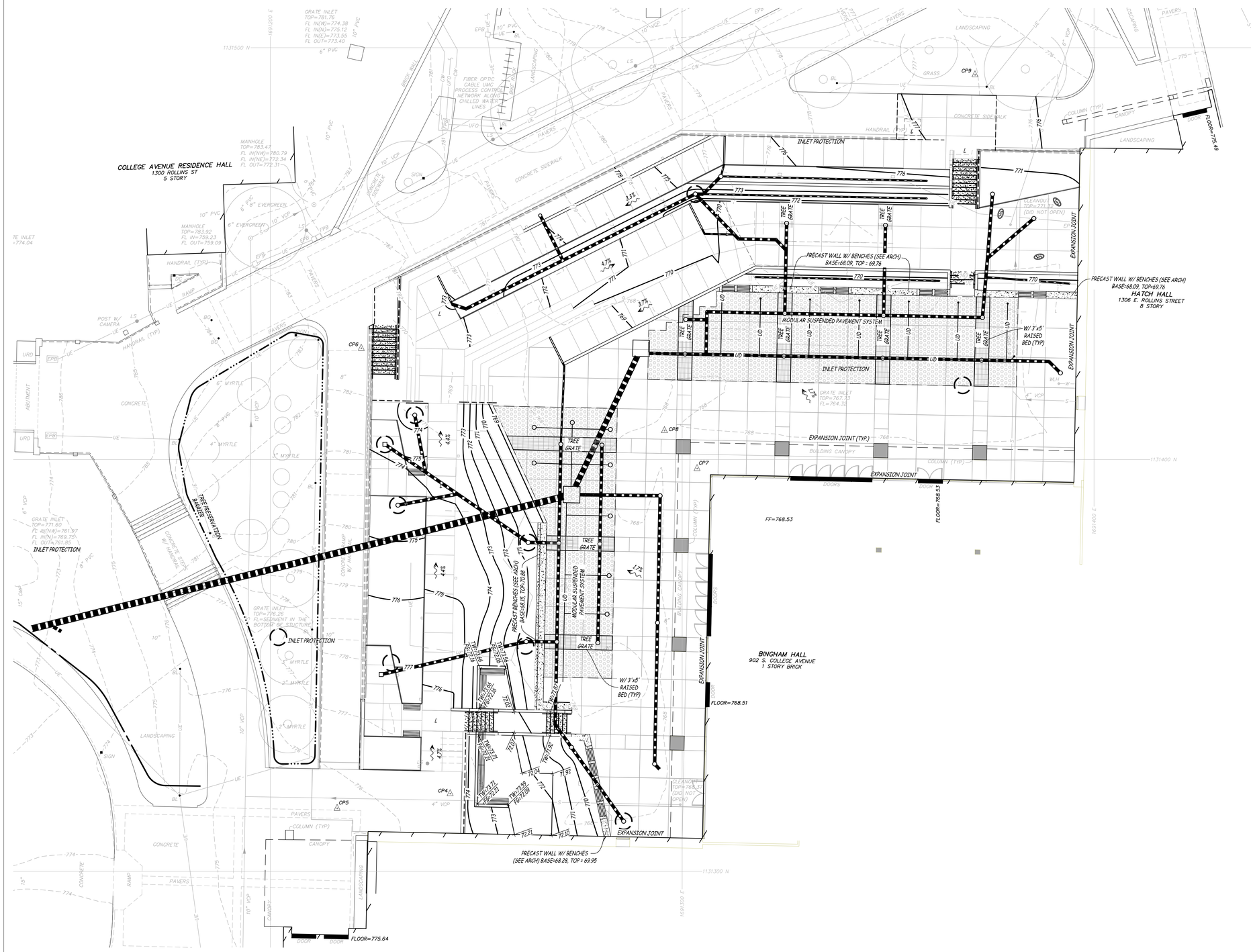
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GRADING & DRAINAGE PLAN – ALTERNATE 1 SEATING AREA "B"

C4.02

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LEGEND

- PROPERTY LINE
- UE — UNDERGROUND ELECTRIC LINE
- UT — UNDERGROUND TELECOMMUNICATIONS LINE
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- TREE GRATES

0' 5' 10' 20'

GRADING & DRAINAGE PLAN | B6
SCALE: 1" = 10'

NOTES | B1

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COURTYARD AREA

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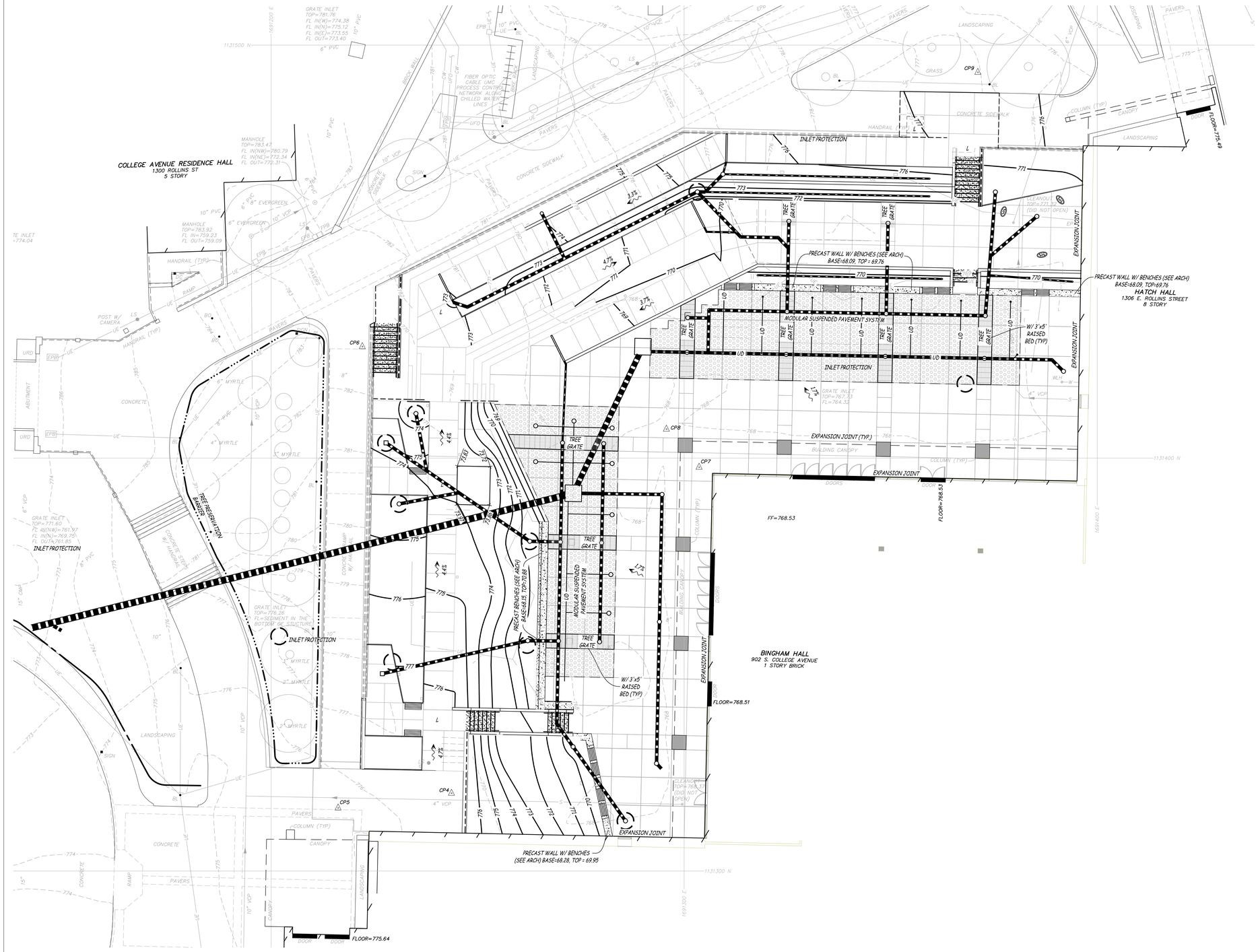
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GRADING & DRAINAGE PLAN – ALTERNATE 3 SEATING AREA "C"

C4.03

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NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT TYPES, SURFACE TREATMENTS, JOINT LAYOUT, AND DETAILS.

0' 5' 10' 20'

GRADING & DRAINAGE PLAN | B6
SCALE: 1" = 10'

NOTES | B1

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BINGHAM HALL – UPDATE COURTYARD AREA

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PROFESSIONAL ENGINEER

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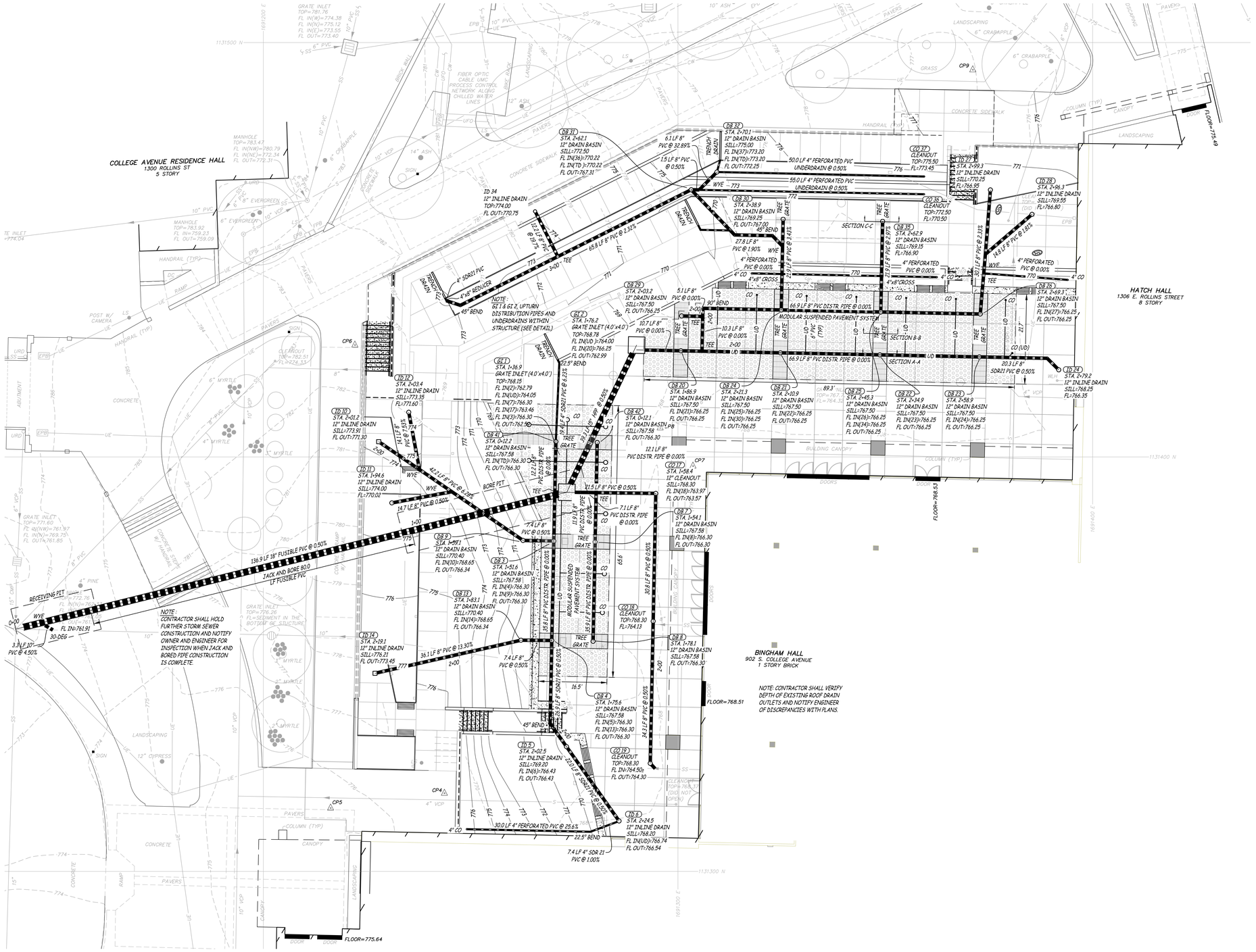
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GRADING & DRAINAGE PLAN – ALTERNATE 5 SEATING AREA "A"

C4.04

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NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT TYPES, SURFACE TREATMENTS, JOINT LAYOUT, AND DETAILS.

0' 5' 10' 20'

1 STORM SEWER PLAN | B6
SCALE: 1" = 10'

NOTES | B1

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BINGHAM HALL – UPDATE COURTYARD AREA

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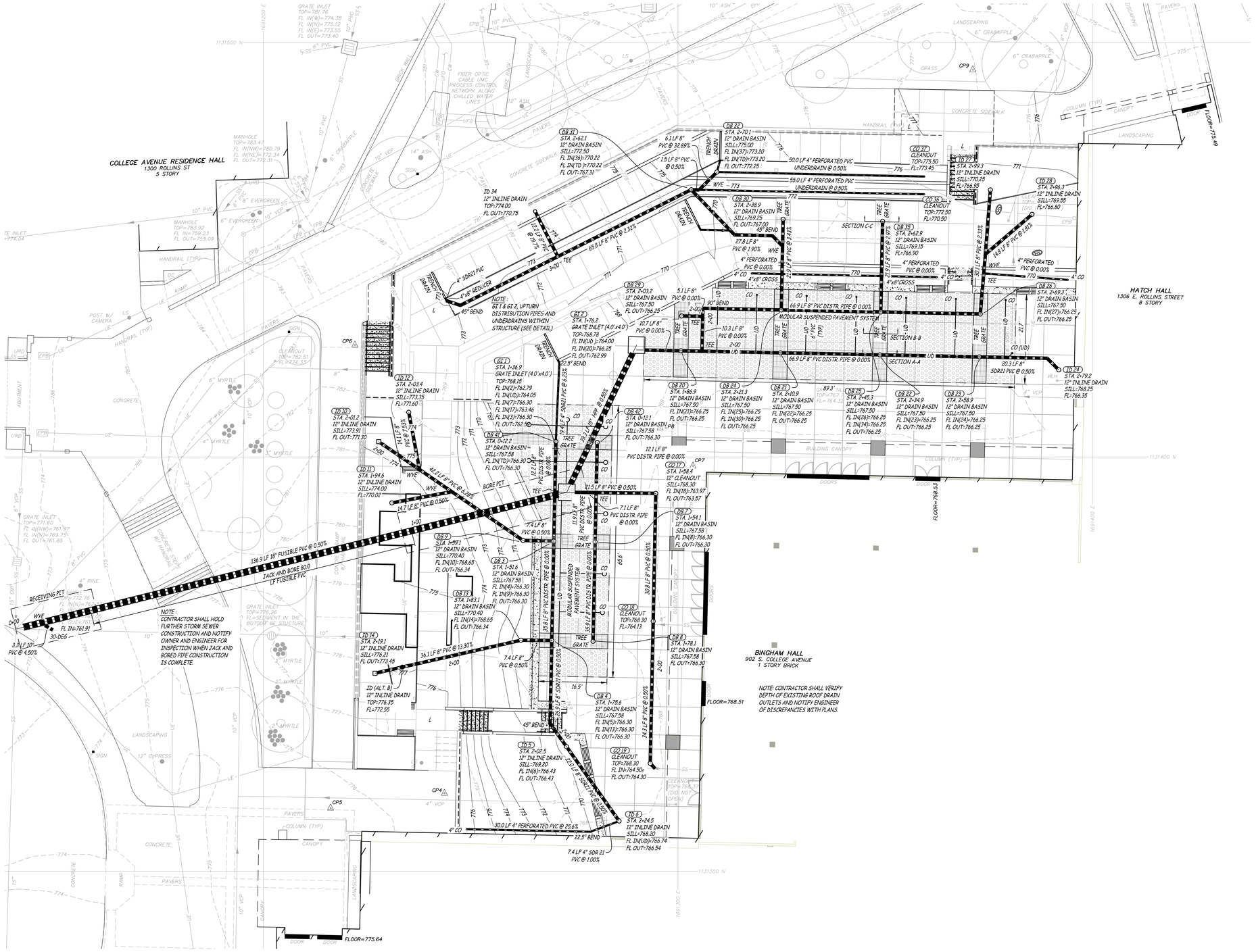
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STORM SEWER PLAN – BASE BID

C5.01

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NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT TYPES, SURFACE TREATMENTS, JOINT LAYOUT, AND DETAILS.

0' 5' 10' 20'

STORM SEWER PLAN | B6
SCALE: 1" = 10'

NOTES | B1

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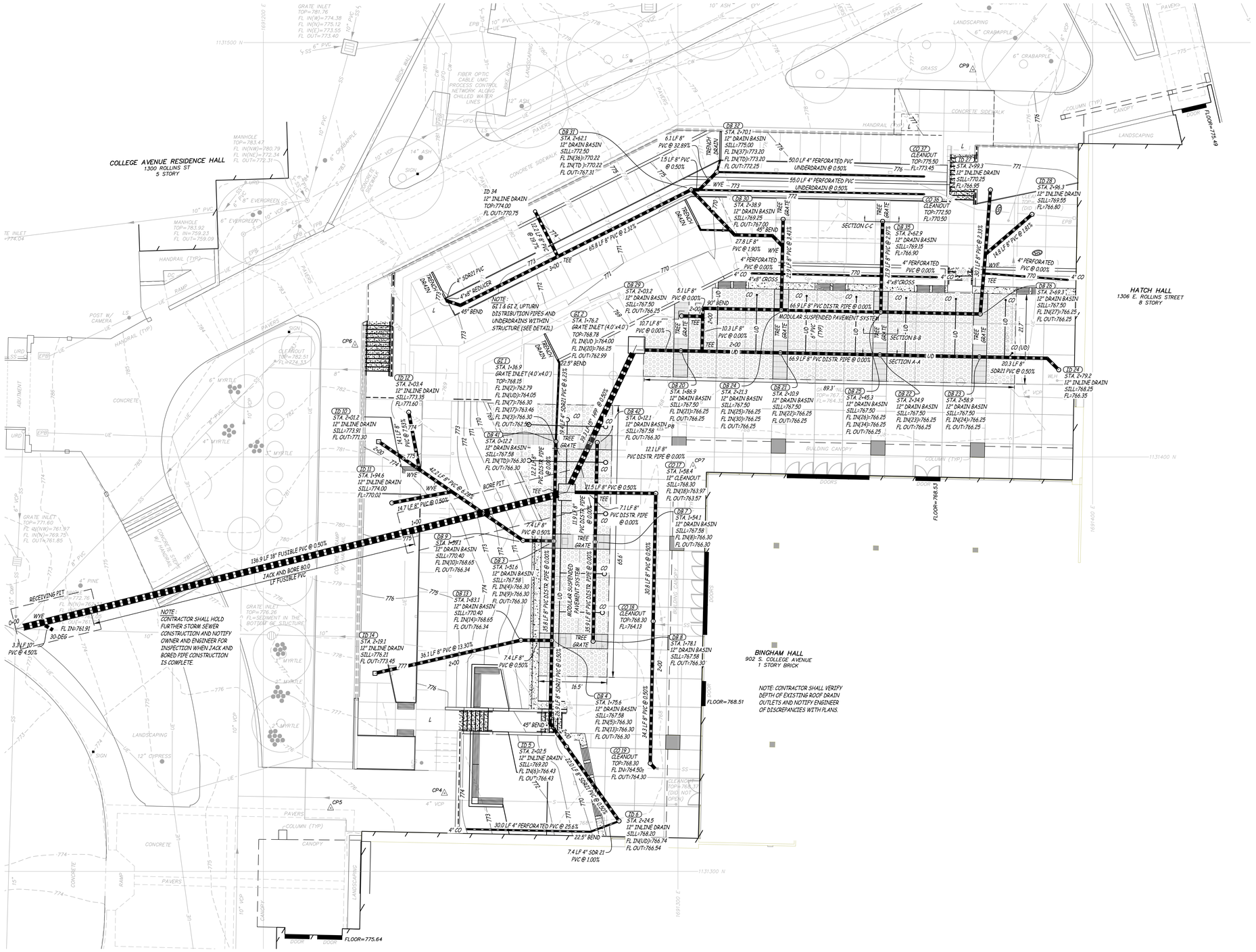
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STORM SEWER PLAN
ALTERNATE 1
SEATING AREA "B"

C5.02

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NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT TYPES, SURFACE TREATMENTS, JOINT LAYOUT, AND DETAILS.

0' 5' 10' 20'

1 STORM SEWER PLAN | B6
SCALE: 1" = 10'

NOTES | B1

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FOR THE CURATORS OF
THE UNIVERSITY OF MISSOURI

BINGHAM HALL – UPDATE COURTYARD AREA

ISSUED FOR BID

902 S COLLEGE AVE
COLUMBIA, MO 65201

DATE:	12/22/2025
PROJ. NO.:	CP231011
DESIGNED BY:	SS
DRAWN BY:	SK
CHECKED BY:	SS
APPROVED BY:	MK

SEAL:

12/15/2025

STATE OF MISSOURI
MATTHEW AARON KRIETE
NUMBER PE-2007002811
PROFESSIONAL ENGINEER

MATTHEW A. KRIETE
PROFESSIONAL ENGINEER
PE-2007002811

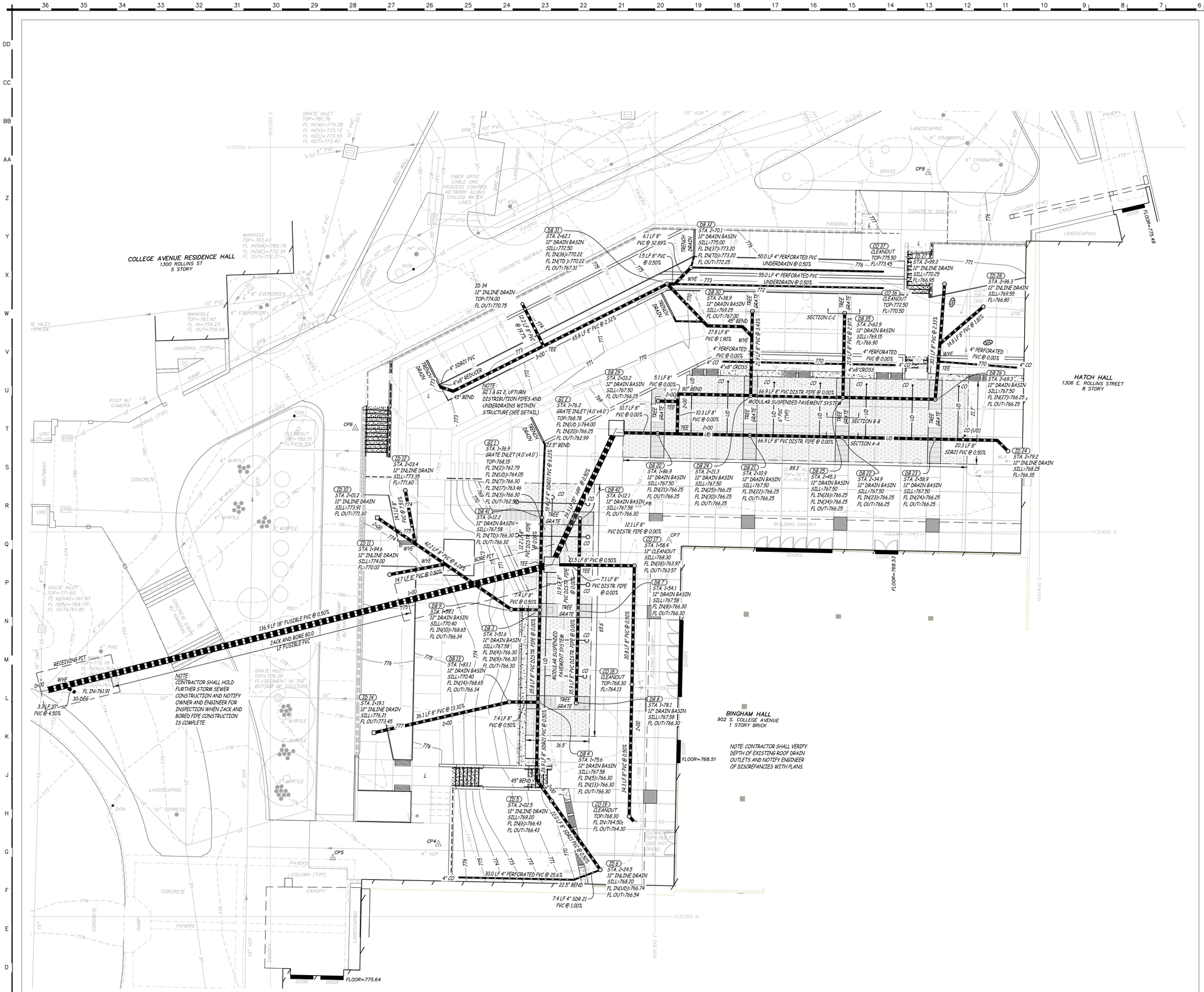
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0	ISSUED FOR BID	12/22/2025

STORM SEWER PLAN
ALTERNATE 3
SEATING AREA "C"

C5.03

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NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT TYPES, SURFACE TREATMENTS, JOINT LAYOUT, AND DETAILS.

0' 5' 10' 20'

STORM SEWER PLAN | B6
SCALE: 1" = 10'

NOTES | B1

LEGEND

	PROPERTY LINE
UE	UNDERGROUND ELECTRIC LINE
UT	UNDERGROUND TELECOMMUNICATIONS LINE
UFO	UNDERGROUND FIBER OPTIC LINE
S	SANITARY SEWER LINE
SS	STORM SEWER LINE
W	WATER LINE
CW	CHILLED WATER LINE
750	EXISTING CONTOUR
CP#	CONTROL POINT
BO	BOLLARD
BL	BOLLARD LIGHT
CMP	CORRUGATED METAL PIPE
DC	DOOR CONTROL
DI	DUCTILE IRON PIPE
EM	ELECTRIC METER
EPB	ELECTRIC PULLBOX
FH	FIRE HYDRANT
FPB	FIBER OPTIC PULLBOX
FL	FLOW LINE
LS	LIGHT STANDARD
PVC	POLYVINYL CHLORIDE PIPE
RD	ROOF DRAIN
TP	TOP OF PLANTER
TW	TOP OF WALL
UP	UTILITY POLE
URD	UNDERGROUND ROOF DRAIN
VCP	VITRIFIED CLAY PIPE
WLH	WATER LAWN HYDRANT
WV	WATER VALVE
750	FINISH CONTOUR
CB	CATCH BASIN
DB	DRAIN BASIN
ID	INLINE DRAIN
UD	UNDERDRAIN
L	LANDING
R	RAMP
	PROPOSED SURFACE DRAINAGE
	PROPOSED STORM SEWER
	DEMOLITION LIMITS
	PRECAST CONCRETE FEATURE (SEE ARCH)
	LANDSCAPING BED
	MODULAR SUSPENDED PAVEMENT SYSTEM
	TREE GRATES

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FOR THE CURATORS OF
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BINGHAM HALL – UPDATE
COURTYARD AREA

ISSUED FOR BID

902 S COLLEGE AVE
COLUMBIA, MO 65201

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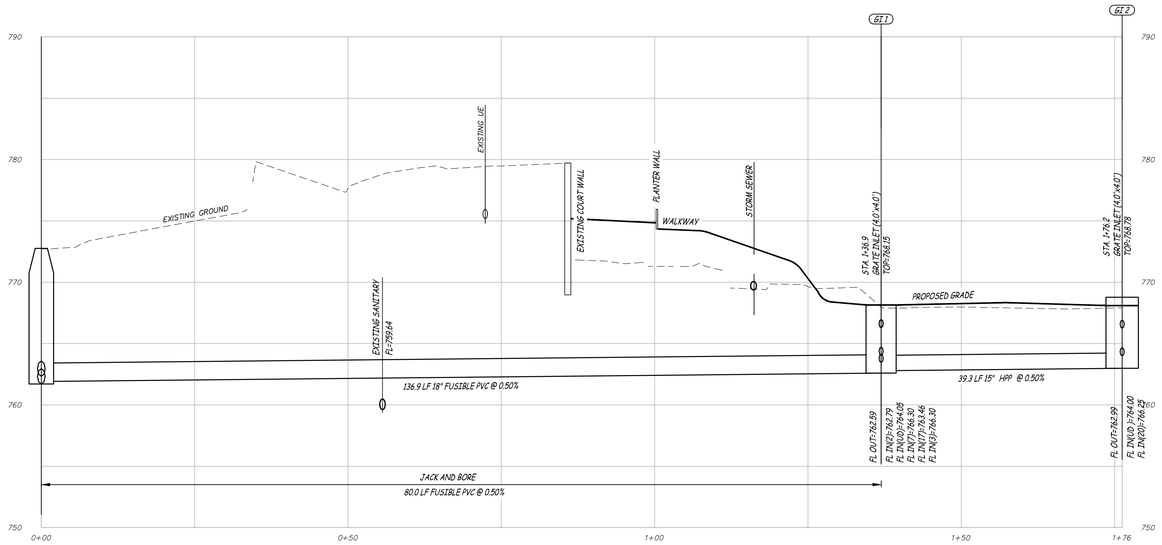
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0	ISSUED FOR BID	12/22/2025

STORM SEWER PLAN
ALTERNATE 5
SEATING AREA "A"

C5.04

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EX THRU GI 2

SCALE – HORIZ. 1" = 10'
VERT. 1" = 5'

NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT TYPES, SURFACE TREATMENTS, JOINT LAYOUT, AND DETAILS.

0' 5' 10' 20'

7/22/2025 9:16:43 AM

LEGEND

	PROPERTY LINE
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	LANDSCAPING BED
	MODULAR SUSPENDED PAVEMENT SYSTEM
	TREE GRATES

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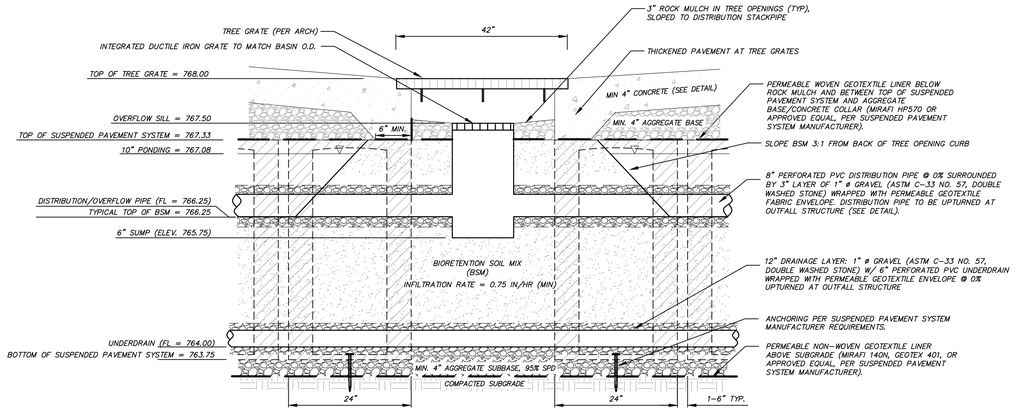
STORM SEWER PROFILE

C6.01

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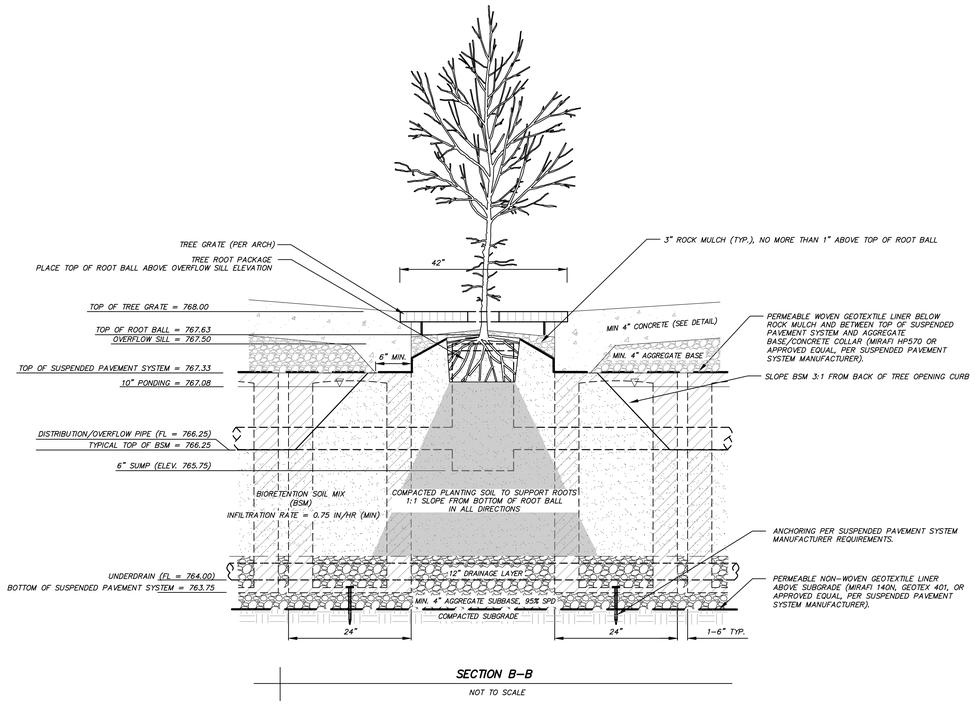
STORM SEWER PLAN | B6

NOTES | B1



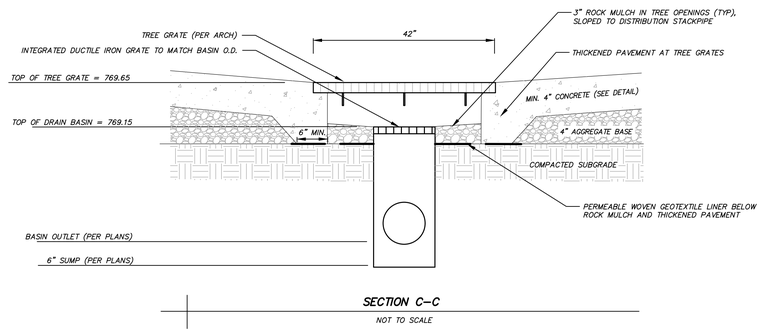
SECTION A-A

NOT TO SCALE



SECTION B-B

NOT TO SCALE



SECTION C-C

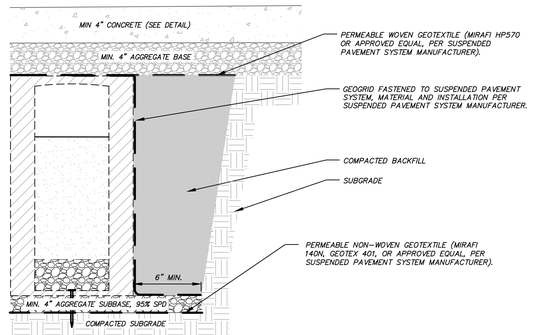
NOT TO SCALE

MODULAR SUSPENDED PAVEMENT SYSTEM NOTES

1. GEOTEXTILE FABRIC SHALL BE NEEDLE PUNCHED NON WOVEN POLYPROPYLENE FABRIC: MIRAFI 140N, OR GEOTEX 401, OR APPROVED EQUAL. FABRIC SHALL BE PLACED ABOVE AND BELOW FACILITY AS SHOWN, AND BETWEEN ALL SIDES OF THE SUSPENDED PAVEMENT SYSTEM AND SURROUNDING BACKFILL.
2. THE BIORETENTION SOIL MIXTURE (BSM) SHALL CONSIST OF A MIXTURE OF PLANTING SOIL, COMPOST, AND SAND CONSISTING OF THE FOLLOWING:
   - 30% PLANTING SOIL
   - 20% ORGANIC COMPOST
   - 50% SAND (ASTM C33 FINE AGGREGATE)

   CERTIFICATION FROM A DESIGN PROFESSIONAL IS REQUIRED PRIOR TO PLACEMENT OF BIORETENTION SOIL MIX MATERIAL STATING MATERIAL MEETS OR EXCEEDS THE REQUIREMENTS FOR THE MIX ON THE APPROVED DEVELOPMENT PLANS. CONTRACTOR SHALL SUBMIT A 1-GALLON BAG OF THE BSM TO THE ENGINEER FOR APPROVAL PRIOR TO PURCHASE,. THE BSM SHALL HAVE A COEFFICIENT OF PERMEABILITY OF AT LEAST 1.5 FT/DAY (0.75 IN/HR), WITH A PHOSPHOROUS INDEX OF 30 OR LESS, A pH OF 6 TO 8, AND EXCHANGE CAPACITY GREATER THAN 10 MILLIEQUIVALENTS/ 100 GRAMS OF DRY WEIGHT
3. PLANTING SOIL: THE USDA TEXTURAL CLASSIFICATION SHALL BE LOAMY SAND OR SANDY LOAM. PRIOR TO PURCHASE, A SAMPLE OF THE TOP SOIL SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER. PLANTING SOIL SHALL MEET THE FOLLOWING CRITERIA:
   - 50 – 75% SAND (2.0 – 0.050 MM, TEST METHOD: AASHTO T88)
   - 0 – 50% SILT (0.050 – 0.002 MM, TEST METHOD: AASHTO T88)
   - 2 – 5% CLAY (LESS THAN 0.002MM, TEST METHOD: AASHTO T88)
   - 3 – 10% ORGANIC MATTER (C/N RATIO ≤ 25, TEST METHOD: AASHTO T194)

   NO TIME EXTENSIONS WILL BE GRANTED FOR FAILURE TO MEET THE MINIMUM REQUIREMENTS. ONCE THE STOCKPILE OF THE TOP SOIL HAS BEEN SAMPLED, NO MATERIAL SHALL BE ADDED TO THE STOCKPILE.
4. ORGANIC COMPOST: COMPOST SHALL BE A HOMOGENEOUS AND FRIABLE MIXTURE OF PARTIALLY DECOMPOSED ORGANIC MATTER RESULTING FROM COMPOSTING. COMPOST SHALL NOT CONTAIN MORE THAN 1 PERCENT FOREIGN MATTER. FOREIGN MATTER IS DEFINED AS ANY MATTER OVER A 2 MM DIMENSION HAVING INORGANIC CONSTITUENTS SUCH AS METAL, GLASS, AND SYNTHETIC POLYMERS (E.G. PLASTIC AND RUBBER).
5. THE BSM SHALL BE A UNIFORM MIX, FREE OF PLANT RESIDUE, STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES EXCLUDING MULCH.
6. THE BSM SHALL BE PLACED USING LOW GROUND-CONTACT PRESSURE EQUIPMENT, OR BY EXCAVATORS AND/OR BACKHOES OPERATING ON THE GROUND ADJACENT TO THE FACILITY. NO HEAVY EQUIPMENT SHALL BE USED WITHIN THE FACILITY DURING OR AFTER THE PLACEMENT OF THE BSM. THE BSM SHALL BE PLACED IN 12 INCH LIFTS AND SHALL BE SATURATED OVER THE ENTIRE AREA AFTER THE PLACEMENT OF EACH LIFT. FINAL ELEVATIONS SHALL BE WITHIN 1 INCH OF THE PLANS.
7. SUSPENDED PAVEMENT SYSTEM INSTALLATION SHALL BE DELAYED AS LONG AS PRACTICAL TO PREVENT CONTAMINATION DURING CONSTRUCTION. RUNOFF FROM THE SITE SHALL BE DIRECTED AWAY FROM THE SYSTEM UNTIL UPSTREAM AREAS ARE STABILIZED.
8. PERIMETER OF SUSPENDED PAVEMENT SYSTEM SHALL BE MARKED WITH TRACER WIRE WITH TRACER TEST STATIONS AND MARKING TAPE.
9. SUBGRADE BELOW SUSPENDED PAVEMENT SYSTEM SHALL BE COMPACTED TO AT LEAST 95 PERCENT STANDARD PROCTOR DENSITY AS SPECIFIED IN THE GRADING NOTES ON SHEET C0.01.
10. MODULAR SUSPENDED PAVEMENT UNITS SHALL BE SECURED TO THE SUBGRADE AS RECOMMENDED BY THE MANUFACTURER, EITHER BY PINS OR OTHER MANUFACTURER APPROVED METHOD.
11. SPACING BETWEEN MODULAR SUSPENDED PAVEMENT UNITS SHALL NOT EXCEED 3 INCHES OR THE MAXIMUM SPACING RECOMMENDED BY THE MANUFACTURER.



EDGE OF SUSPENDED PAVEMENT SYSTEM DETAIL

NOT TO SCALE

NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT SURFACE TREATMENTS AND JOINT LAYOUT.

LEGEND

	PROPERTY LINE
UE	UNDERGROUND ELECTRIC LINE
UT	UNDERGROUND TELECOMMUNICATIONS LINE
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	PROPOSED SURFACE DRAINAGE
	PROPOSED STORM SEWER
	DEMOLITION LIMITS
	PRECAST CONCRETE FEATURE (SEE ARCH)
	LANDSCAPING BED
	MODULAR SUSPENDED PAVEMENT SYSTEM
	TREE GRATES

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FOR THE CURATORS OF
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MATTHEW AARON KRIETE
NUMBER PE-2007002811
REGISTERED PROFESSIONAL ENGINEER

MATTHEW A. KRIETE
PROFESSIONAL ENGINEER
PE-2007002811

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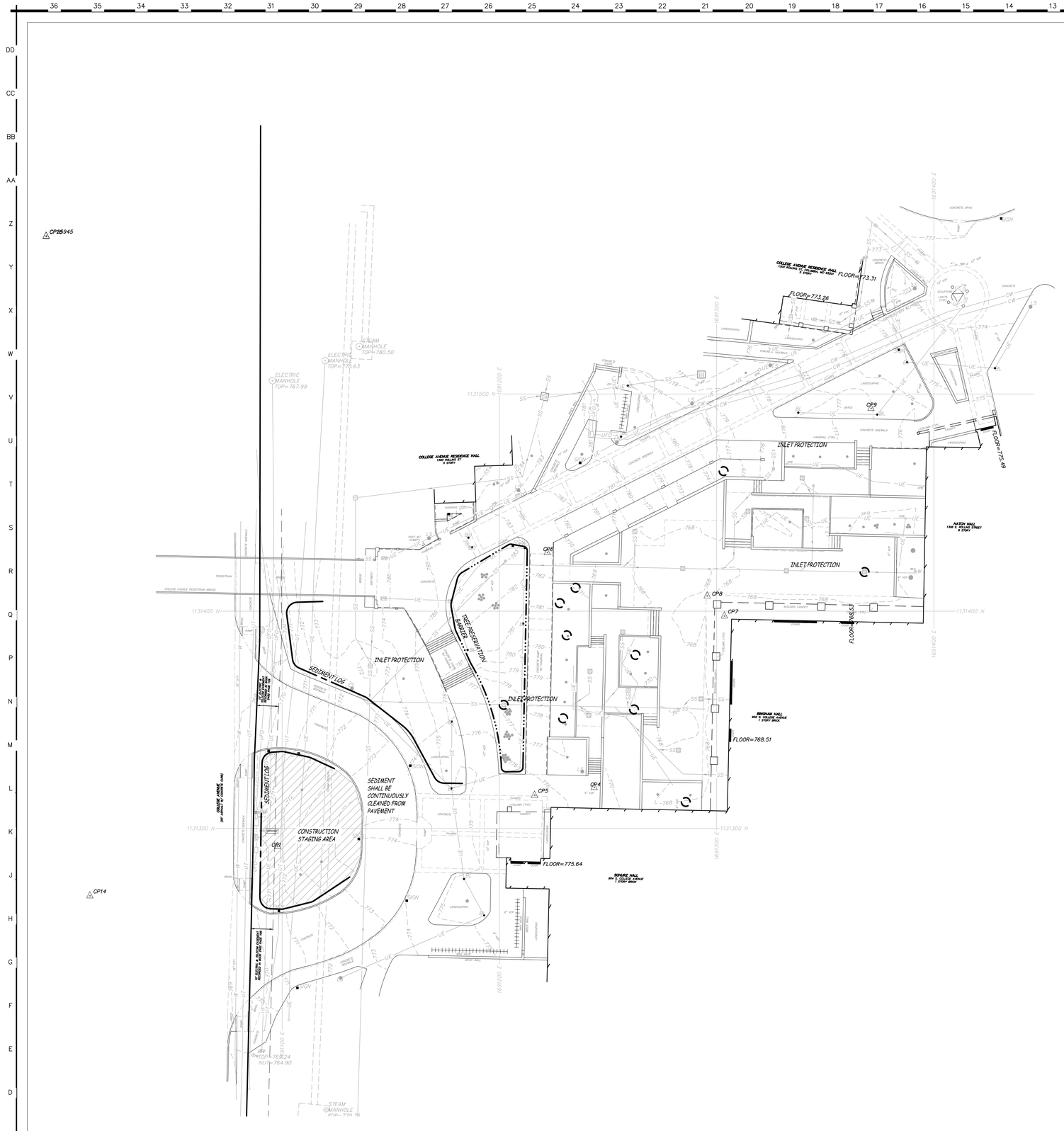
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MODULAR SUSPENDED PAVEMENT SYSTEM SECTIONS

C6.02

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NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT TYPES, SURFACE TREATMENTS, JOINT LAYOUT, AND DETAILS.

0' 5' 10' 20'

1 INITIAL SEDIMENT & EROSION CONTROL PLAN | B6
SCALE: 1" = 20'

NOTES | B1

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LEGEND

PROPERTY LINE	
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NATIONAL COUNCIL OF EXAMINERS FOR ENGINEERING AND SURVEYING

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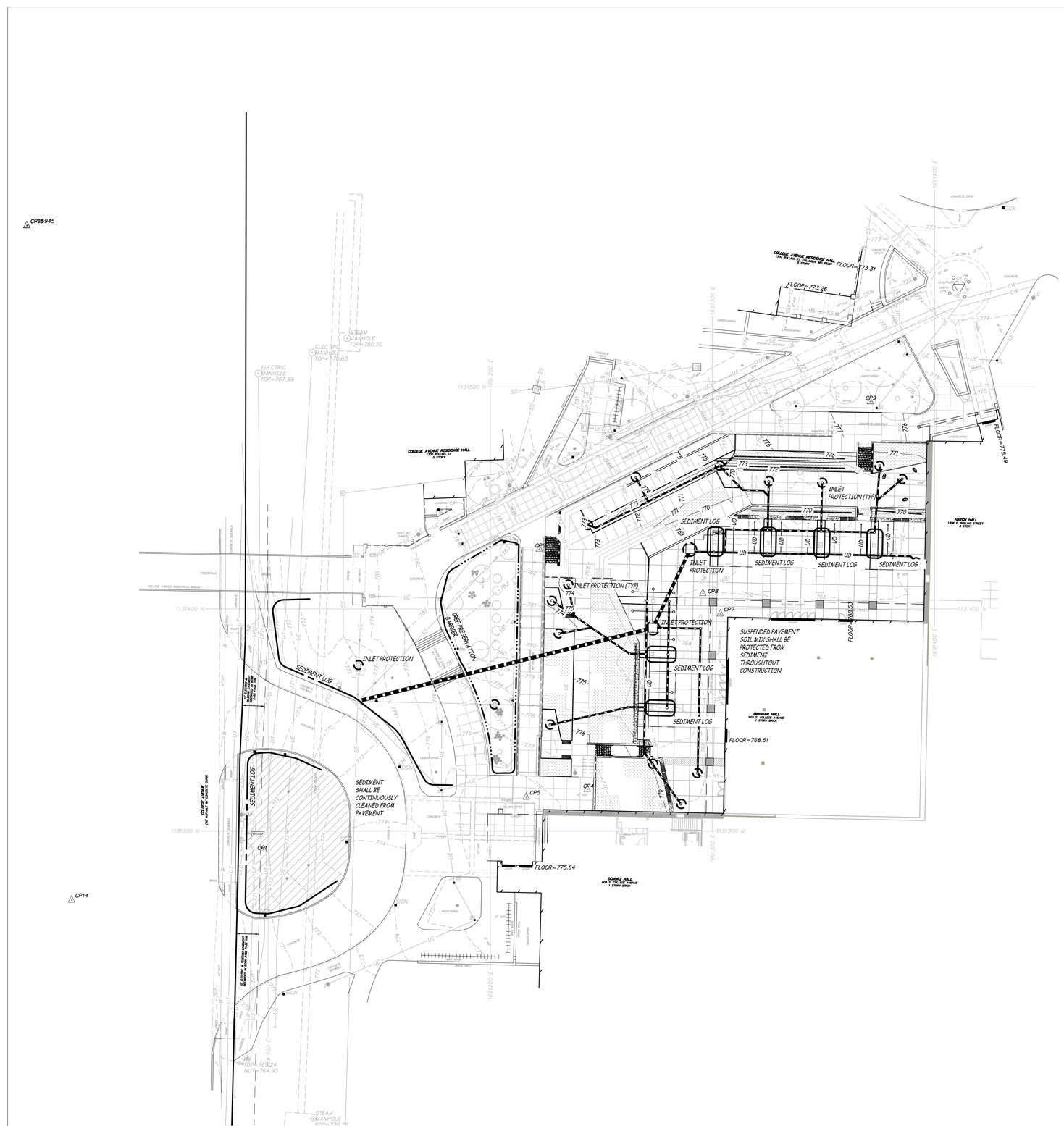
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INITIAL SEDIMENT & EROSION CONTROL PLAN

C7.01

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NOTE: SEE ARCHITECTURAL PLANS FOR PAVEMENT TYPES, SURFACE TREATMENTS, JOINT LAYOUT, AND DETAILS.

0' 5' 10' 20'

FINAL SEDIMENT & EROSION CONTROL PLAN | B6
SCALE: 1" = 20'

NOTES | B1

7/22/2025 9:16:43 AM

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PH: 816.207.6019

FOR THE CURATORS OF
THE UNIVERSITY OF MISSOURI

BINGHAM HALL – UPDATE COURTYARD AREA

ISSUED FOR BID

902 S COLLEGE AVE
COLUMBIA, MO 65201

DATE:	12/22/2025
PROJ. NO.:	CP231011
DESIGNED BY:	SS
DRAWN BY:	SK
CHECKED BY:	SS
APPROVED BY:	MK

SEAL:

12/12/2025

STATE OF MISSOURI
MATTHEW AARON KRIETE
NUMBER PE-2007002811
PROFESSIONAL ENGINEER

MATTHEW A. KRIETE
PROFESSIONAL ENGINEER
PE-2007002811

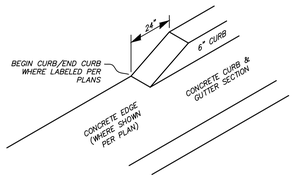
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NO.	REVISION SUBMISSION	DATE
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FINAL SEDIMENT & EROSION CONTROL PLAN

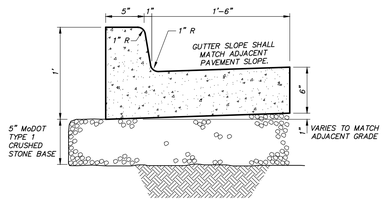
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BEGIN CURB / END CURB DETAIL

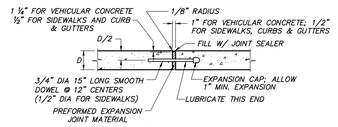
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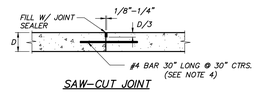
NOTES:
1. DETAIL SHALL APPLY IN AREAS OF DRIVEWAY REPAIR OUTSIDE WALLS OF COURTYARD. (1)
2. CURB AND GUTTER MAY BE INTEGRAL IF CONCRETE PAVEMENT IS USED.
3. INSTALL TRANSVERSE EXPANSION JOINTS TO MATCH ADJACENT PAVEMENT,OR AT EVERY 150' MAX.
4. INSTALL SAW-CUT JOINTS TO MATCH ADJACENT PAVEMENT OR EVERY 10' MAX.
5. SAW-CUT JOINTS SHALL EXTEND THROUGH THE ENTIRE CURB SECTION FROM THE TOP OF CURB TO A DEPTH OF 2" BELOW THE GUTTER SURFACE.

6" CONCRETE CURB & GUTTER SECTION

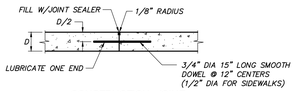
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EXPANSION JOINT



SAW-CUT JOINT

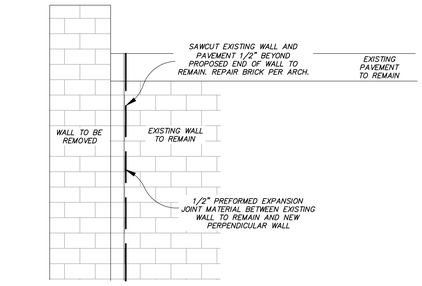


CONSTRUCTION JOINT

NOTES:
1. JOINT PATTERN WITHIN COURTYARD AREA SHALL ADHERE TO ARCHITECTURAL PLANS. (1)
2. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT A PAVEMENT JOINT PLAN OF ALL CONCRETE PAVEMENT TO ENGINEER AND ARCHITECT FOR APPROVAL.
3. CONCRETE PAVEMENT SHALL HAVE SAW-CUT OR CONSTRUCTION JOINTS EVERY 10 FEET FOR 4 INCH THICK PAVEMENT, 12 FEET FOR 5 INCH THICK PAVEMENT, AND 15 FEET FOR 6 INCH THICK PAVEMENT OR GREATER. PANELS SHALL BE CUT SUCH THAT PANELS ARE NEARLY SQUARE AND DO NOT EXCEED 1.4 LENGTH TO WIDTH RATIO. EXPANSION JOINTS SHALL BE PROVIDED AT ALL FIXED STRUCTURES, SUCH AS: LIGHT STANDARD FOUNDATIONS, SEWER STRUCTURES, BUILDINGS, WALLS, BOTTOM OF STAIRS, ROOF DRAINS, ETC., AND EVERY 150 FEET MAXIMUM. DOWEL BARS SHALL BE PROVIDED AT TRANSVERSE JOINTS IN ALL HEAVY DUTY PAVEMENT DRIVE AISLES.
4. THIS DETAIL APPLIES TO ALL CONCRETE PAVEMENT FOR PARKING LOTS, DRIVE/ACCESS AISLES, CURBS & GUTTERS, AND SIDEWALKS.
5. INCLUDE BAR WITH TRANSVERSE SAW-CUT JOINTS FOR HEAVY DUTY PAVEMENT. OMIT BAR WITH SAW-CUT JOINTS FOR STANDARD DUTY PAVEMENT AND SIDEWALKS.
6. PROVIDE CONSTRUCTION JOINT AT END OF DAYS WORK OR IF CONCRETE PLACEMENT IS SUSPENDED FOR MORE THAN 30 MINUTES.
7. SAW-CUT JOINTS SHALL BE CUT WITHIN 12 HOURS OF INITIAL SET OF CONCRETE. RAVELED JOINTS WILL NOT BE ACCEPTED.
8. ELASTOMERIC POLYURETHANE OR SILICONE JOINT SEALANT IS REQUIRED FOR ALL JOINTS AND SHALL BE LIGHT GRAY IN COLOR.
9. OMIT DOWEL BARS FOR EXPANSION JOINTS AT BUILDINGS, LIGHT STANDARDS, AND ROOF DRAINS.

CONCRETE PAVEMENT JOINTS

NOT TO SCALE

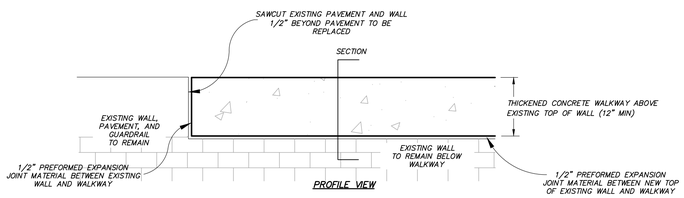


PROFILE VIEW

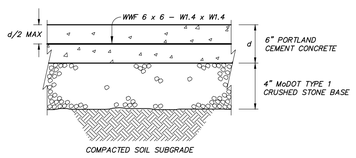
NOTES:
1. IF SIDEWALK IS REINFORCED, NO STEEL SHALL BE PLACED THROUGH EXPANSION JOINT.

SAWCUT & REMOVE WALL (NORTHEAST STAIR)

NOT TO SCALE



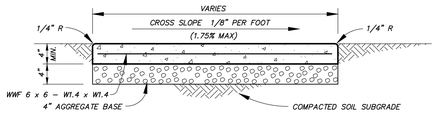
PROFILE VIEW



NOTES:
1. DETAIL SHALL APPLY IN AREAS OF DRIVEWAY PAVEMENT REPAIR OUTSIDE WALLS OF COURTYARD.
2. TOP OF REINFORCEMENT SHALL BE A MINIMUM OF 2" BELOW THE TOP OF PAVEMENT.

CONCRETE PAVEMENT (DRIVEWAY)

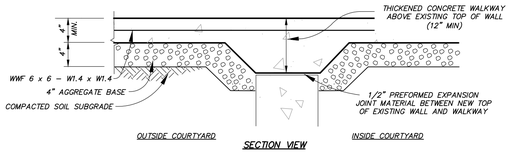
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NOTES:
1. PAVEMENT JOINT PATTERN AND SANDBLASTING/OTHER ARCHITECTURAL FEATURES WITHIN BINGHAM COMMONS COURTYARD AREA SHALL BE PER ARCH PLANS AND DETAILS.
2. SIDEWALK SHALL BE 5–8% AIR–ENTRAINED, 6 BAG MIX, 4,000 PSI PORTLAND CEMENT CONCRETE.
3. INSTALL TRANSVERSE EXPANSION JOINTS TO MATCH STREET OR CURB AND GUTTER EXPANSION JOINTS AND AT ALL DRIVEWAY APPROACHES, FIXED STRUCTURES, BUILDINGS, AND SIDEWALK RAMPS. SPACING SHALL NOT EXCEED 100'.
4. FOR SIDEWALKS UP TO 6 FT. WIDE, INSTALL TRANSVERSE SAW-CUT JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
5. FOR SIDEWALKS WIDER THAN 6 FT., INSTALL LONGITUDINAL SAW JOINT AT CENTERLINE OR AT A SPACING NOT TO EXCEED 5 FT. TRANSVERSE SAW-CUT JOINT SPACING EQUAL TO HALF SIDEWALK WIDTH.
6. IF SIDEWALK IS REINFORCED, NO STEEL SHALL BE PLACED THROUGH AN EXPANSION JOINT.
7. SEE SEPARATE DETAIL FOR ADDITIONAL CONCRETE JOINT REQUIREMENTS.

CONCRETE SIDEWALK REPLACEMENT (OUTSIDE COURTYARD)

NOT TO SCALE



SECTION VIEW

NOTES:
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2. SIDEWALK SHALL BE 5–8% AIR–ENTRAINED, 6 BAG MIX, 4,000 PSI PORTLAND CEMENT CONCRETE.
3. IF SIDEWALK IS REINFORCED, NO STEEL SHALL BE PLACED THROUGH EXPANSION JOINT.

SAWCUT & REMOVE TOP OF WALL (NORTHEAST COURTYARD ENTRANCE)

NOT TO SCALE

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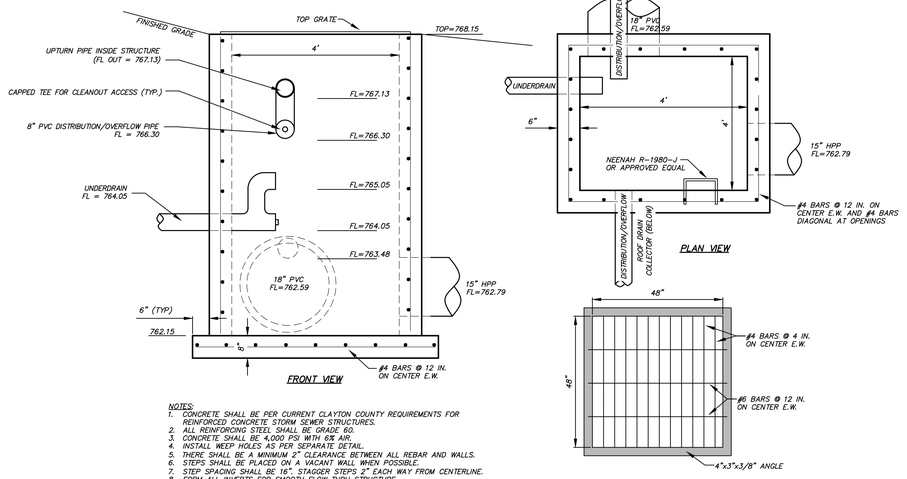
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DETAILS

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NOTES:
1. CONCRETE SHALL BE PER CURRENT CLAYTON COUNTY REQUIREMENTS FOR REINFORCED CONCRETE STORM SEWER STRUCTURES.
2. ALL REINFORCING STEEL SHALL BE GRADE 60.
3. CONCRETE SHALL BE 4,000 PSI WITH 6% AIR.
4. INSTALL WEEP HOLES AS PER SEPARATE DETAIL.
5. THERE SHALL BE A MINIMUM 2" CLEARANCE BETWEEN ALL REBAR AND WALLS.
6. STEPS SHALL BE PLACED ON A VACANT WALL WHEN POSSIBLE.
7. STEP SPACING SHALL BE 16". STAGGER STEPS 2" EACH WAY FROM CENTERLINE.
8. FORM ALL INVERTS FOR SMOOTH FLOW THRU STRUCTURE.
9. PLACE STRUCTURE ON 8" GRANULAR BASE.
10. AFTER COMPLETION, COVER PERFORATED PIPE WITH 2" WASHED STONE. MOUND STONE AROUND PIPE UNTIL COVERED, MINIMUM 4" THICK.
11. SUMP IN OUTFALL CONTROL STRUCTURE TO BE FILLED WITH CONCRETE TO THE LOW FLOW ORIFICE FLOW LINE.
12. PIPE CONNECTIONS WITHIN STRUCTURE SHALL BE SOLVENT WELDED.

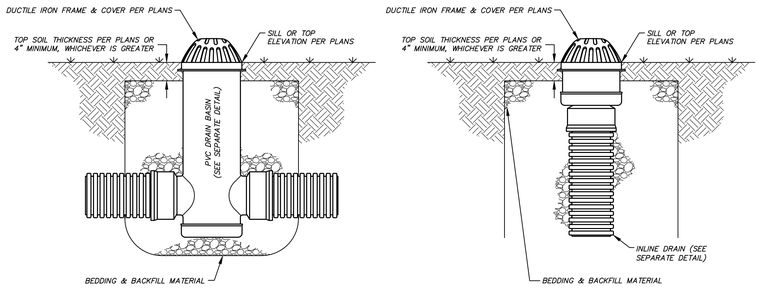
1. WELD ALL CONNECTIONS.
2. APPLY GALVANIZED COATING AFTER ASSEMBLY.
3. GRATE SHALL BE ANCHORED TO BOX.

GRATE INLET DETAIL (GI 1)
NOT TO SCALE

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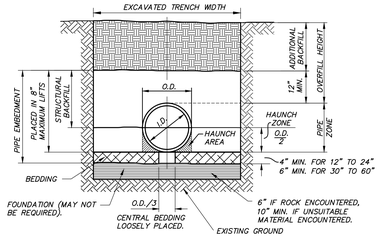
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2. APPLY GALVANIZED COATING AFTER ASSEMBLY.
3. GRATE SHALL BE ANCHORED TO BOX.

GRATE INLET DETAIL (GI 2)
NOT TO SCALE



NOTES:
1. THE BEDDING & BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. ALL BEDDING & BACKFILL SHALL BE PLACED & COMPACTED UNIFORMLY IN LIFTS TO 95% STANDARD PROCTOR IN ACCORDANCE WITH ASTM D2321.
2. STORM INLET TOP/GRATE SHALL BE LABELED TO DISCOURAGE DUMPING OF POLLUTANTS TO WATERWAY.

PVC BASIN/DRAIN INSTALLATION FOR NON-TRAFFIC/GREENSPACE AREAS ONLY
NOT TO SCALE



TYPICAL TRENCH DETAIL

BACKFILL NOTES:
1. BEDDING, HAUNCH, AND STRUCTURAL BACKFILL SHALL BE IN CONFORMANCE WITH AASHTO M145 A1 OR A-3 COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698.
2. ALL PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ASTM D2321 LATEST ADDITION.
3. HAUNCH, STRUCTURAL, AND ADDITIONAL BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698.

TABLE II
MINIMUM COVER FOR CONSTRUCTION LOADS

PIPE DIA. (IN.)	MINIMUM COVER (FT) FOR INDICATED AXLE LOADS (THOUSANDS OF POUNDS)			
	18-50	50-75	75-110	110-150
12-36	2.0	2.5	3.0	3.0
42-48	3.0	3.0	3.5	4.0

THE CONTRACTOR SHALL PROVIDE MINIMUM COVER PLUS ANY ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. IN UNPAVED SITUATIONS, THE SURFACE MUST BE MAINTAINED TO A LEVEL AND NON-RUTTED CONDITION.

LEGEND
- I.D. = NORMAL INSIDE DIAMETER OF PIPE.
- O.D. = OUTSIDE DIAMETER OF PIPE.
- H = FILL COVER HEIGHT OVER PIPE (FEET).
- MIN. = MINIMUM
- MAX = MAXIMUM
- = UNDISTURBED SOIL

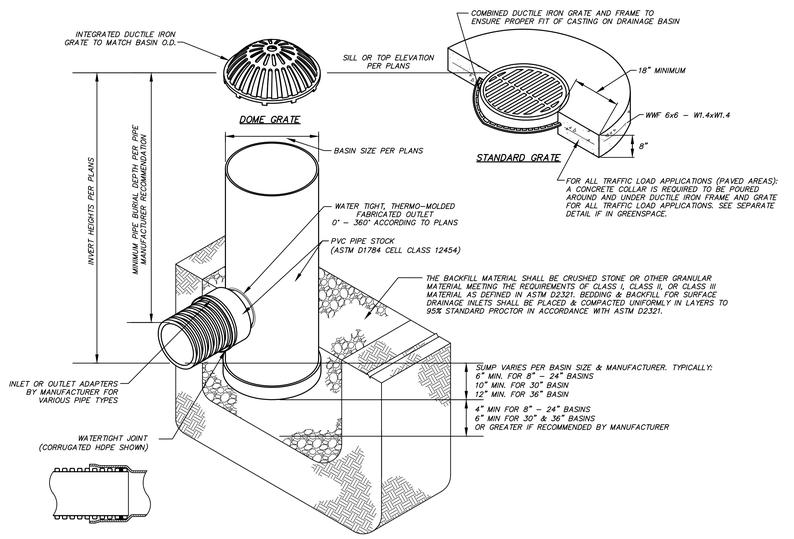
CONSTRUCTION SEQUENCE:
1. PLACE BEDDING MATERIAL TO GRADE.
2. COMPACT BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
3. INSTALL PIPE TO GRADE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE SPRINGLINE.
5. COMPLETE BACKFILL ACCORDING TO SPECIFICATIONS.

TABLE I
CORRUGATED HDPE AND POLYVINYL CHLORIDE CIRCULAR PIPE

SPECIFIED DIA OF PIPE (IN.)	MIN OVERFILL HEIGHT (FT)	HDPE MAX OVERFILL HEIGHT* (FT)	POLYVINYL CHLORIDE MAX OVERFILL HEIGHT* (FT)		VIRGIN RESIN (AASHTO M294) OVERFILL HEIGHT* (FT)			ENGINEERED COMPOUND (RECYCLED, ASTM F2648) OVERFILL HEIGHT* (FT)			TRENCH WIDTH (IN.)
			SDR 35#	SDR 26#	CLASS 1**	CLASS 2**	CLASS 3**	CLASS 1**	CLASS 2**	CLASS 3**	
12	2	26	15	30	43	29	21	27	19	12	34
15	2	28	15	30	45	30	22	27	20	13	39
18	2	24	15	30	40	27	19	25	18	11	44
24	2	20	15	30	36	25	17	22	16	12	55
30	2.5	17	N/A	N/A	29	21	15	16	12	6	67
36	2.5	19	N/A	N/A	34	23	16	21	15	10	76
42	2.5	19	N/A	N/A	31	23	16	17	13	7	84
48	2.5	17	N/A	N/A	30	20	14	18	13	10	95
54	2.5	9	N/A	N/A	33	22	15	N/A	N/A	N/A	104
60	2.5	9	N/A	N/A	33	22	15	20	15	10	113

TABLE ASSUMES STANDARD PROCTOR DENSITY OF 95%
* MAXIMUM OVERFILL MEASURED FROM THE TOP OF PIPE TO SURFACE
** CLASS 1 - CRUSHED ROCK, ANGULAR; AASHTO M43 - 5, 6, 56, 57, 67
** CLASS 2 - CLEAN, COURSE GRAINED SOILS TO BORDERLINE CLEAN FINES; AASHTO M43 - 5, 6, 56, 57, 67; AASHTO M145 - A1, A3
** CLASS 3 - COURSE GRAINED SOILS WITH FINES AND INORGANIC FINE-GRAINED SOILS; AASHTO M43 - GRAVEL AND SAND WITH <10% FINES; AASHTO M145 - A-2-4, A-2-5, A-2-6, A-4, OR A-6 WITH >30% RETAINED ON #200 SIEVE
** REFER TO CURRENT ADS INC. DRAINAGE HANDBOOK FOR A COMPLETE LISTING OF SUITABLE MATERIALS
# PER ASTM D-3034 FOR PIPE UP TO 15" AND ASTM F679 OVER 15"

EMBEDMENT OF PLASTIC STORM SEWER PIPE
NOT TO SCALE



NOTES:
1. ALL CONNECTIONS SHALL BE WATERTIGHT.
2. SEE PLANS FOR GRATE TYPE FOR EACH BASIN.
3. ALL FRAMES & GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, OR 80-55-06.
4. ALL STANDARD OR SOLID GRATES SHALL BE MEET H-20 LOAD RATING. DOME GRATES HAVE NO LOAD RATING.
5. DRAIN BASINS SHALL BE CUSTOM MANUFACTURED AS A SINGLE UNIT ACCORDING TO PLAN DIMENSIONS. RISERS SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY ENGINEER.
6. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE & PVC PIPE.
7. STORM INLET TOP/GRATE SHALL BE LABELED TO DISCOURAGE DUMPING OF POLLUTANTS TO WATERWAY.

PVC DRAIN BASIN & GRATE
NOT TO SCALE

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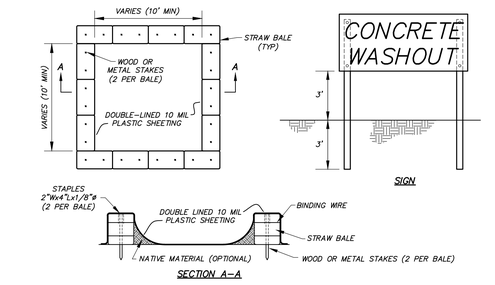
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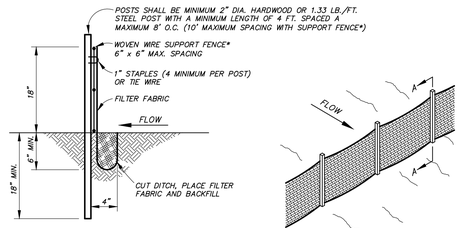
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NOTES:
1. ALL CONCRETE WASTE MATERIAL, INCLUDING WASHOUT WATER, SHALL BE TOTALLY CONTAINED.
2. SEE SWPPP FOR MORE DETAILS.
3. UPON PROJECT COMPLETION CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONCRETE WASTE FROM THE OWNER'S PROPERTY PER ALL APPLICABLE SOLID WASTE REGULATIONS.
4. CONSTRUCT SIGN OF WEATHER PROOF MATERIALS OF A SIZE EASILY READABLE BY CONCRETE TRUCK DRIVERS. PLACE SIGN WITHIN 10' OF WASHOUT.
5. CONTRACTOR SHALL CONTAIN WASHOUT WATERS AT ALL TIMES.

CONCRETE WASHOUT AREA

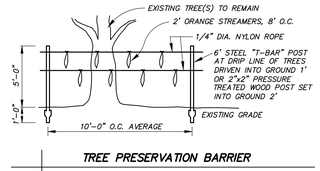
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL INSTALL SILT FENCE AT TOE OF SLOPES OF ALL AREAS AFFECTED BY CONSTRUCTION PRIOR TO ANY DISTURBANCE ON THE SITE.
2. SILT FENCE SHALL REMAIN UNTIL VEGETATION HAS BEEN ESTABLISHED ON DISTURBED AREAS.
3. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
4. SILT FENCES SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, ETC., TO VERIFY THE FABRIC IS SECURELY ATTACHED TO THE POSTS, THE POSTS ARE SECURELY IN THE GROUND, AND THE FABRIC IS SECURELY IMBEDDED IN THE GROUND TO PREVENT RUNOFF FROM GOING UNDER ANY PART OF THE FENCE.
5. CONTRACTOR SHALL REMOVE ALL SILT FENCES WHEN ALL DISTURBED AREAS ARE COVERED WITH A MINIMUM 80% VEGETATION. SEED AND MULCH ALL AREAS DISTURBED DURING REMOVAL.

SILT FENCE DETAIL

NOT TO SCALE

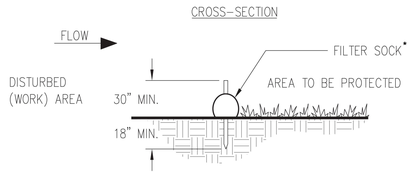


TREE PRESERVATION BARRIER

NOT TO SCALE

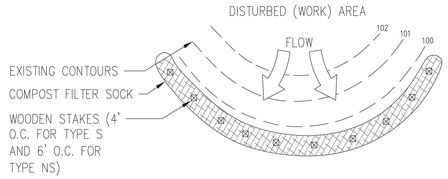
EROSION AND SEDIMENT CONTROL

COMPOST FILTER SOCK



NOTE: FILTER SOCK SIZED TO SUIT CONDITIONS (SEE APPROVED LIST)

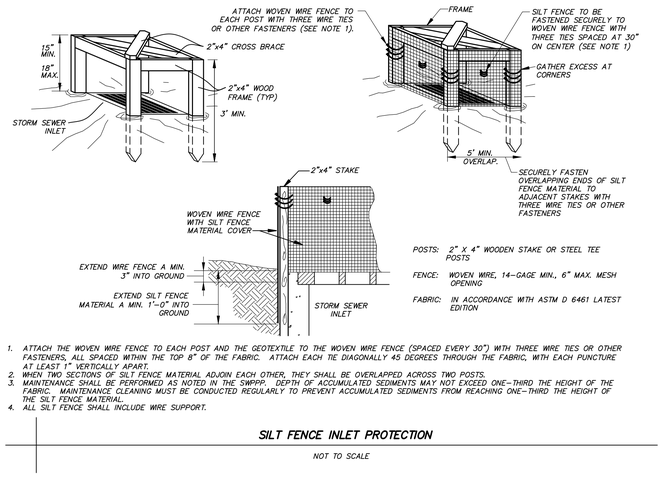
PLAN



*HEIGHT IS TO BE SHOWN ON THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

Figure 6-27.3

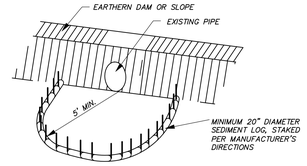
GSWCC (Amended - 2013) 6-195



1. ATTACH THE WOVEN WIRE FENCE TO EACH POST AND THE GEOTEXTILE TO THE WOVEN WIRE FENCE (SPACED EVERY 30") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.
2. WHEN TWO SECTIONS OF SILT FENCE MATERIAL ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-THIRD THE HEIGHT OF THE FABRIC. MAINTENANCE CLEANING MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING ONE-THIRD THE HEIGHT OF THE SILT FENCE MATERIAL.
4. ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT.

SILT FENCE INLET PROTECTION

NOT TO SCALE



PERSPECTIVE VIEW

CULVERT INLET PROTECTION

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FOR THE CURATORS OF
THE UNIVERSITY OF MISSOURI

BINGHAM HALL – UPDATE COURTYARD AREA

ISSUED FOR BID

902 S COLLEGE AVE
COLUMBIA, MO 65201

DATE:	12/22/2025
PROJ. NO.:	CP231011
DESIGNED BY:	SS
DRAWN BY:	SK
CHECKED BY:	SS
APPROVED BY:	MK

SEAL:

12/12/2025

STATE OF MISSOURI
MATTHEW AARON KRIETE
NUMBER PE-2007002811
PROFESSIONAL ENGINEER

MATTHEW A. KRIETE
PROFESSIONAL ENGINEER
PE-2007002811

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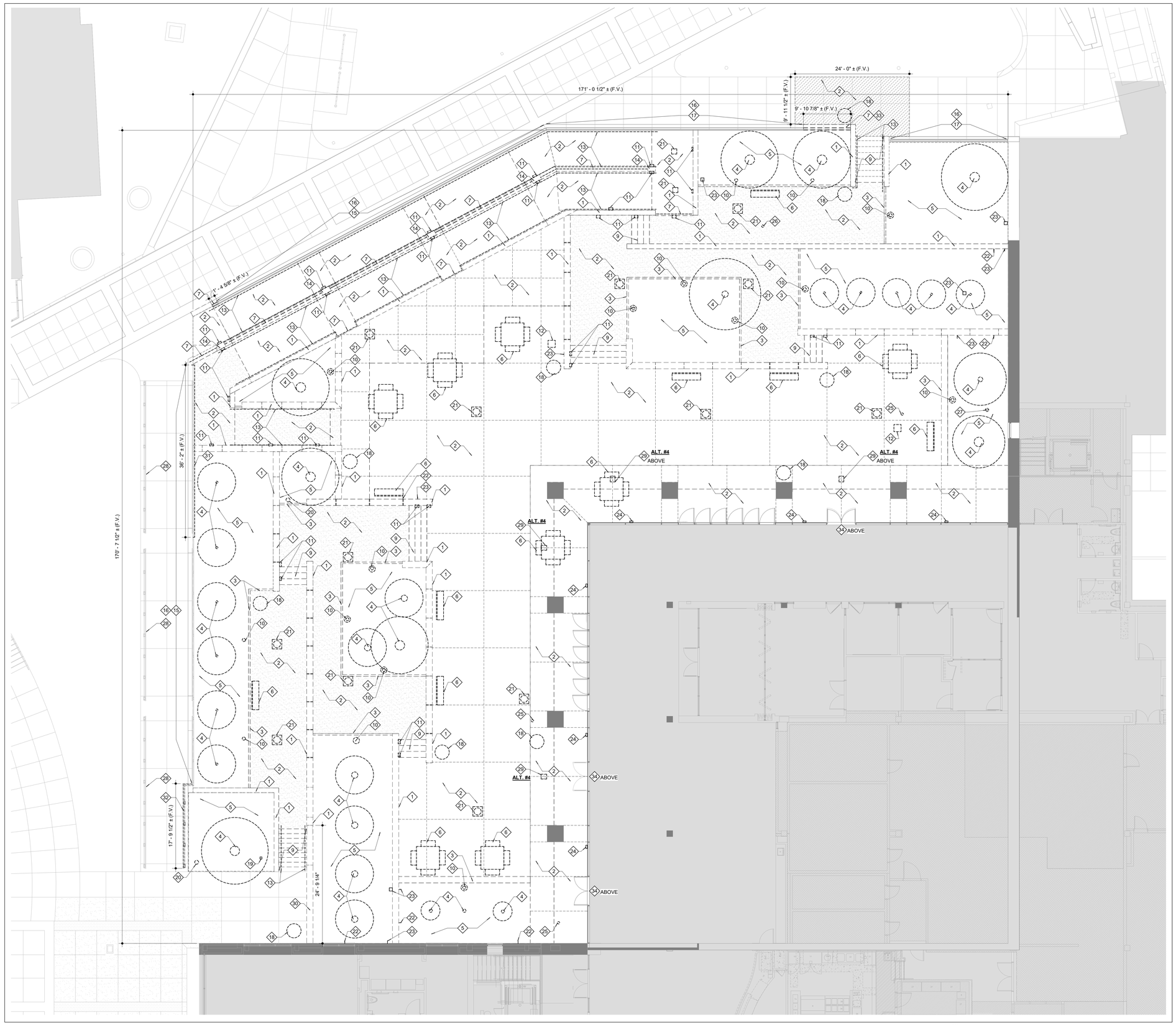
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DETAILS

C8.03

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DEMOLITION LEGEND:

INDICATES EXISTING ITEMS TO REMAIN

INDICATES ITEMS TO BE DEMOLISHED

OR

1. REFER TO G001 FOR GENERAL NOTES AND GENERAL DEMOLITION NOTES.
2. OWNER TO REMOVE ALL LOOSE FURNISHINGS PRIOR TO START OF CONSTRUCTION.

DEMOLITION NOTES:

1. REMOVE EXISTING SITE WALL AND ENTIRE FOOTING AND FOUNDATION.
2. REMOVE EXISTING CONCRETE PAVING.
3. REMOVE EXISTING CONCRETE CURB.
4. REMOVE EXISTING TREE AND ITS ENTIRE ROOT SYSTEM.
5. REMOVE BUSHES, LANDSCAPING, & PLANTING INCLUDING ROOT SYSTEMS AND STUMPS TO ALLOW FOR NEW CONSTRUCTION.
6. REMOVE EXISTING BENCH / TABLE AND RETURN TO OWNER.
7. REMOVE EXISTING GUARD RAIL AND ASSOCIATED HARDWARE.
9. REMOVE EXISTING CONCRETE STAIR INCLUDING ANY FOOTINGS AND FOUNDATIONS.
10. REMOVE EXISTING LIGHT BOLLARD AND ALL ASSOCIATED ANCHORS, WIRING AND CONDUIT, RE: ELECTRICAL.
11. REMOVE EXISTING IN-WALL LIGHT FIXTURE AND COVER.
12. REMOVE EXISTING CHARCOAL GRILL.
13. REMOVE EXISTING HANDRAILS AND ASSOCIATED SUPPORTS AND HARDWARE.
14. REMOVE EXISTING RAMP PILASTER.
15. PERIMETER SITE WALL BELOW IS EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION AND REFER TO NOTES ON L502 FOR REPOINTING.
16. PERIMETER GUARD RAIL IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE. PROTECT DURING CONSTRUCTION AND PREPARE FOR REPAINTING.
17. PERIMETER SITE WALL BELOW IS EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION.
18. SALVAGE AND RETURN TRASH WASTE BINS TO OWNER.
19. REMOVE EXISTING LIGHT POLE AND ASSOCIATED ANCHORS, WIRING AND CONDUIT, RE: ELECTRICAL.
20. REMOVE EXISTING IRRIGATION CONTROL VALVE ACCESS AND SYSTEM.
21. REMOVE EXISTING DRAIN COVER AND SYSTEM, RE: CIVIL.
22. REMOVE EXISTING LIGHTNING PROTECTION SYSTEM CABLE AND ANCHORS TO BE MODIFIED FOR NEW COURTYARD PLAN.
23. REMOVE ELECTRICAL WIRING, CONDUIT, AND BOX, RE: ELECTRICAL.
24. REMOVE RECEPTACLE AND COVER AND PREPARE FOR NEW GFI RECEPTACLE AND NEW COVER, RE: ELECTRICAL.
25. EXISTING CLEANOUT TO REMAIN. ADJUST FOR HEIGHT OF NEW PAVING, RE: CIVIL.
26. REMOVE EXISTING CLEANOUT, RE: CIVIL.
27. REMOVE EXISTING HOSE AND SPIGOT, RE: CIVIL.
28. EXISTING HANDRAIL TO REMAIN. PREPARE FOR REPAINTING.
29. **ALT. #4:** REMOVE EXISTING EXTERIOR LIGHT FIXTURE ABOVE. PATCH AND REPAIR STONE VENEER.
30. REMOVE PORTION OF EXISTING SITE WALL AT EXTENTS SHOWN TO A HEIGHT OF 1'-0" ABOVE ADJACENT PAVING SURFACE OR NEAREST BRICK COURSING. REMOVE AND SALVAGE EXISTING CAPSTONE FOR REINSTALLATION. EXISTING WALL BELOW TO REMAIN.
31. REMOVE EIFS WALL FINISH, FLASHING, AND ACCESS PANELS. PREPARE WALL TO RECEIVE NEW BRICK.
32. REMOVE AND SALVAGE PORTION OF RAILING SHOWN FOR REINSTALLATION AT MODIFIED LOCATION. PREP FOR REPAINTING.
33. SAWCUT AND REMOVE CONCRETE PAVING AT TOP OF SITE WALL TO EXTENTS SHOWN, RE: CIVIL.
34. REMOVE AND SALVAGE EXISTING EXIT SIGN FOR REINSTALLATION AT SAME LOCATION AT END OF CONSTRUCTION.

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FOR THE CURATORS OF
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BINGHAM HALL - UPDATE COURTYARD AREA

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DESIGNED BY:	AO
DRAWN BY:	AO
CHECKED BY:	AS
APPROVED BY:	MA

SEAL:

STATE OF MISSOURI
MAJID MAHRAMLOO
NUMBER A-A60077
ARCHITECT
12-22-2025

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SITE DEMOLITION PLAN

DL100

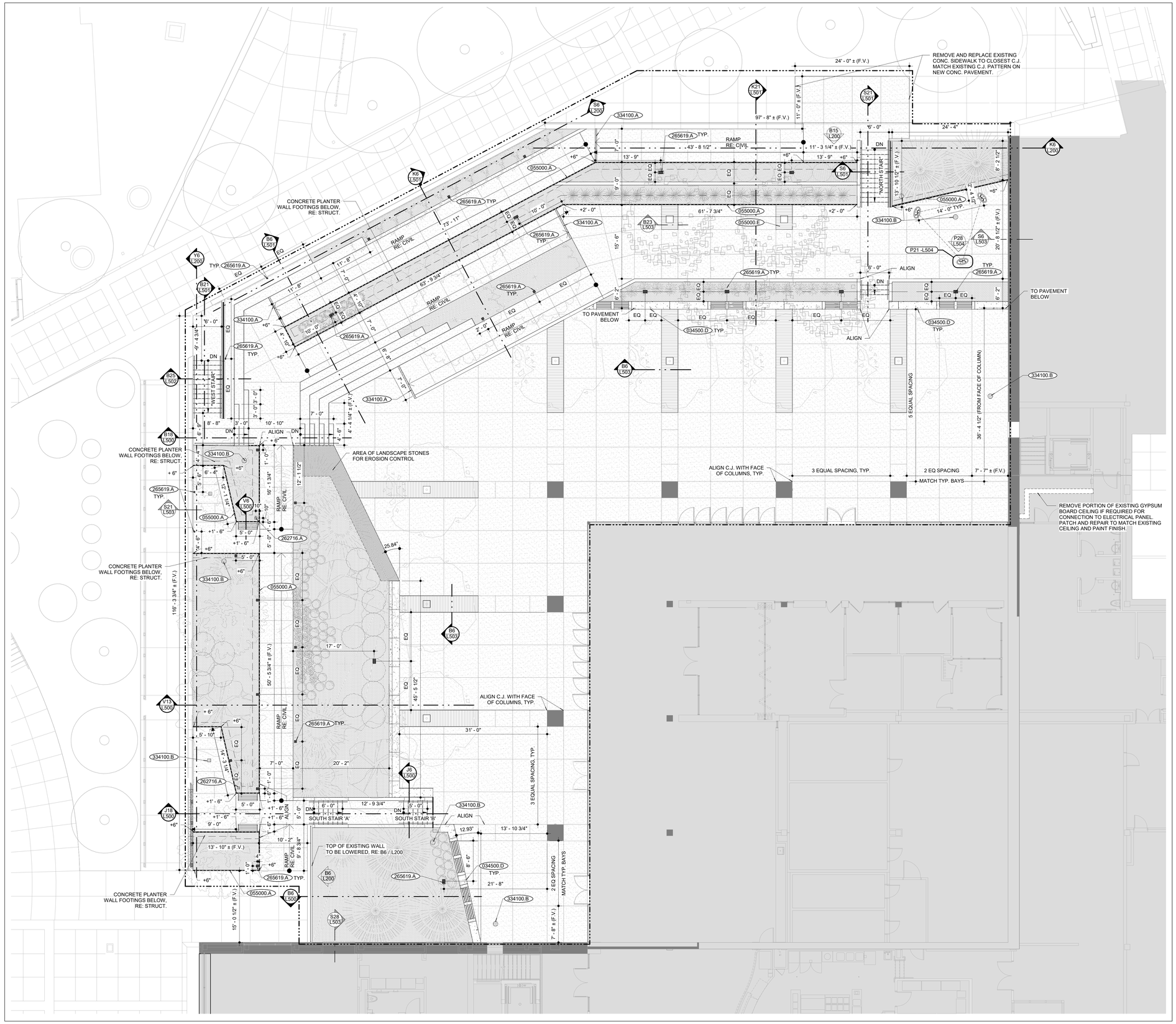
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0' 4' 8' 16'

SITE DEMOLITION PLAN B6
SCALE: 1/8" = 1'-0"

NOTES B1



GENERAL PLAN NOTES:

1. ELEVATIONS FOR TOP OF PLANTER WALLS ARE RELATIVE TO ADJACENT WALKING SURFACE, RE: CIVIL FOR PAVED CONCRETE ELEVATIONS.
2. ALL PLANTINGS AND LANDSCAPE SHOWN ARE FOR REFERENCE ONLY AND ARE TO BE BY OWNER. 18" OF TOPSOIL TO BE OWNER FURNISHED, CONTRACTOR INSTALLED.
3. FOR ALL EXPOSED NEW AND EXISTING CAST-IN-PLACE CONCRETE SITE WALLS PROVIDE SAND-BLASTED TEXTURE FINISH PER SPECIFICATION 030130.
4. REFER TO CIVIL DRAWINGS FOR PAVING EXPANSION JOINT LAYOUT. COORDINATE WITH CONTROL JOINT LAYOUT RE: B6/L100.

LEGEND

- CONCRETE PAVEMENT, RE: 321313
- CONCRETE PAVEMENT - SANDBLAST TEXTURE
- METAL TREE GRATE, RE: 055000
- PLANTING AREAS; 18" OF TOPSOIL, O.F.C.I.
- EXISTING PAVING
- STONE RETAINING EROSION PROTECTION AREAS, RE: 329250
- ANCHORED MODULAR WEATHERING STEEL PLANTER WALL, RE: 055000
- EXTENT OF CONSTRUCTION
- EXISTING TREE
- NEW TREE; BY OWNER
- LIGHT FIXTURE, RE: ELECT.

EXISTING CONSTRUCTION 000000.X

EXISTING CONSTRUCTION 000000.X ★

TAG ALL MATERIALS WITH THEIR LOCATIONS AND SEQUENCING FOR RE-USE. REPAIR AND CLEAN ANY DAMAGED MATERIALS PRIOR TO BEING RE-SET.

NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE
034500.D SKATESTOP

DIVISION 04 MASONRY

DIVISION 05 METALS
055000.A ANCHORED MODULAR PLANTER WALL
055000.E METAL TREE GRATE GRILLE

DIVISION 06 WOOD, PLASTICS + COMPOSITES

DIVISION 07 THERMAL + MOISTURE PROTECTION

DIVISION 08 OPENINGS

DIVISION 09 FINISHES

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS

DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 26 ELECTRICAL
262716.A OUTDOOR CHARGING PEDESTAL (RE: ELECT.)
265619.A EXTERIOR LIGHT FIXTURE (RE: ELECT.)

DIVISION 31 EARTHWORK

DIVISION 32 EXTERIOR IMPROVEMENTS

DIVISION 33 UTILITIES
334100.A TRENCH DRAIN (RE: CIVIL)
334100.B INLINE DRAIN (RE: CIVIL)

SITE PLAN | B6
SCALE: 1/8" = 1'-0"

NOTES | B1

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BINGHAM HALL - UPDATE COURTYARD AREA

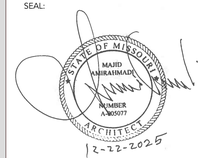
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CHECKED BY: AS
APPROVED BY: MA

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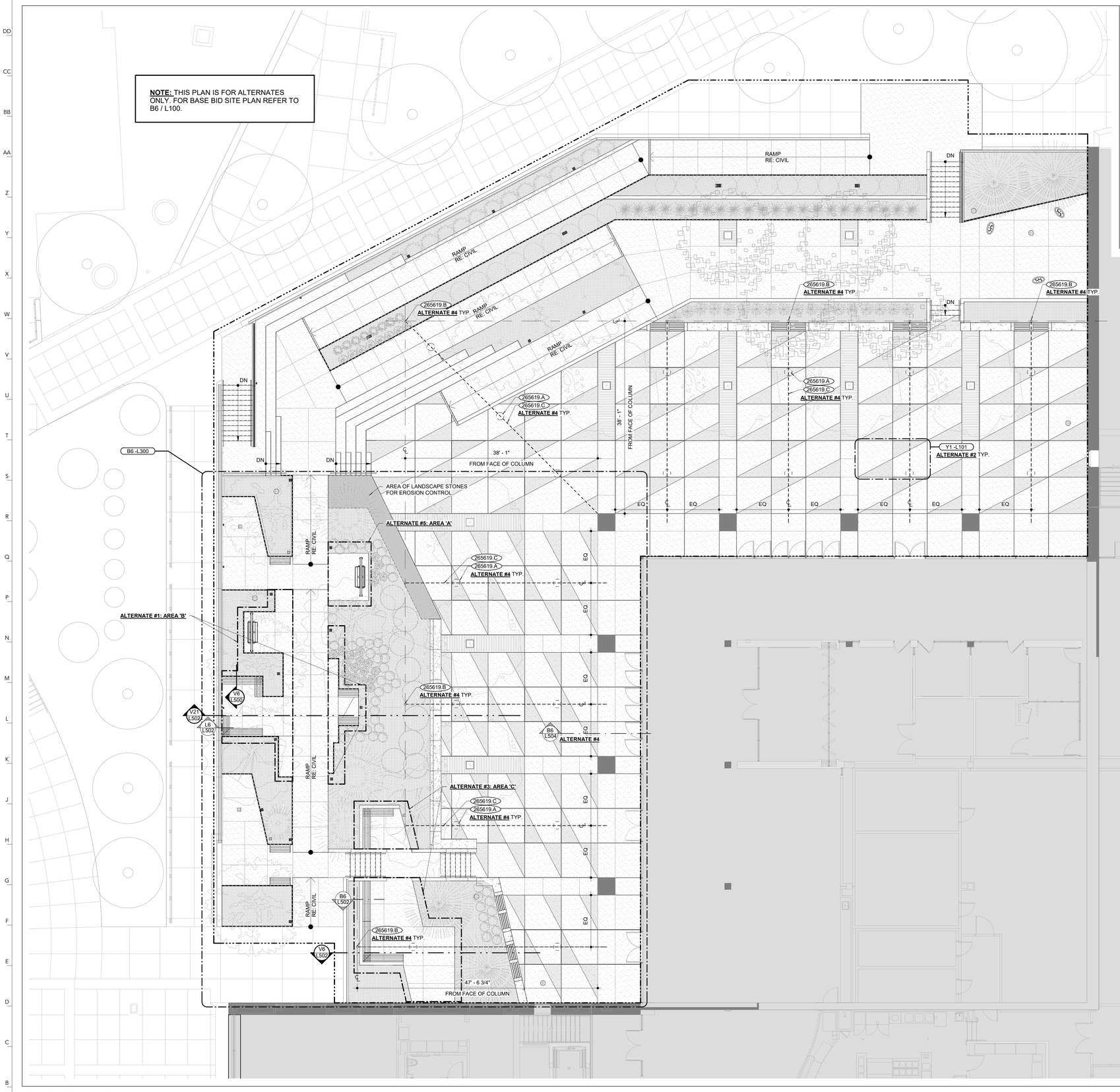
SITE PLAN

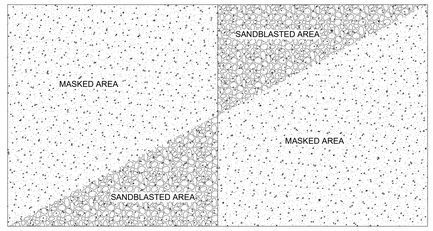
L100

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NOTE: THIS PLAN IS FOR ALTERNATES ONLY. FOR BASE BID SITE PLAN REFER TO B6 / L100.





MASK AREA AS SHOWN AND LIGHTLY SANDBLAST AREAS REMAINING EXPOSED TO PROVIDE A LIGHT TEXTURE IN THE SURFACE OF THE CONCRETE. REFER TO PATTERN SHOWN ON B6 / L101 FOR LAYOUT AND VARIATIONS.

CONTRACTOR SHALL PREPARE MOCKUP OF TYPICAL CONCRETE PANEL WITH SANDBLAST TEXTURE FOR REVIEW.

ALT. #2 TYP. SANDBLAST PATTERN | Y1

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

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- EXISTING TREE
- NEW TREE; BY OWNER
- LIGHT FIXTURE, RE: ELECT.

EXISTING CONSTRUCTION 000000.X

EXISTING CONSTRUCTION 000000.X *

TAG ALL MATERIALS WITH THEIR LOCATIONS AND SEQUENCING FOR RE-USE. REPAIR AND CLEAN ANY DAMAGED MATERIALS PRIOR TO BEING RE-SET.

NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE

DIVISION 04 MASONRY

DIVISION 05 METALS

DIVISION 06 WOOD, PLASTICS + COMPOSITES

DIVISION 07 THERMAL + MOISTURE PROTECTION

DIVISION 08 OPENINGS

DIVISION 09 FINISHES

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

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DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 26 ELECTRICAL

265619.A	EXTERIOR LIGHT FIXTURE (RE: ELECT.)
265619.B	LIGHT FIXTURE POLE (RE: ELECT.)
265619.C	CATENARY SUSPENSION SYSTEM (RE: ELECT.)

DIVISION 31 EARTHWORK

DIVISION 32 EXTERIOR IMPROVEMENTS

DIVISION 33 UTILITIES

0' 4' 8' 16'

SITE PLAN - ALTERNATES | B6

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

NOTES | B1

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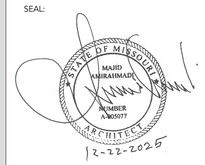
BINGHAM HALL - UPDATE COURTYARD AREA

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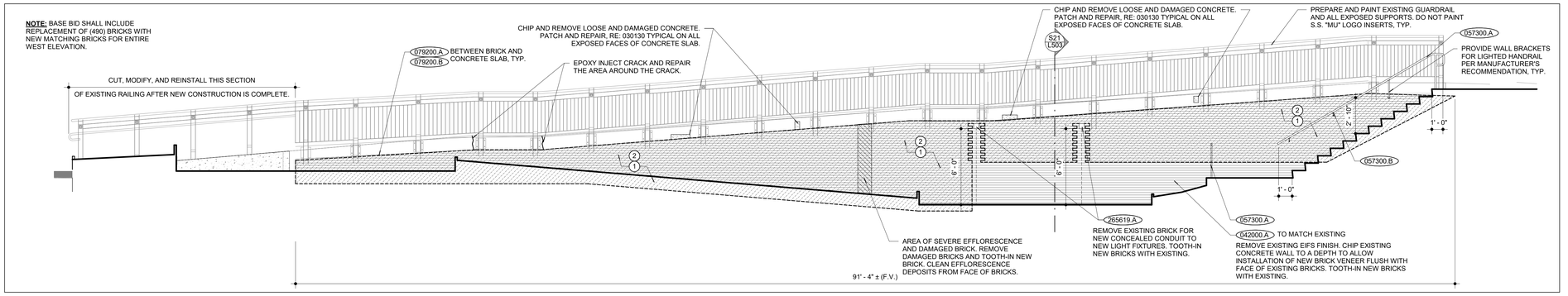
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SITE PLAN - ALTERNATES

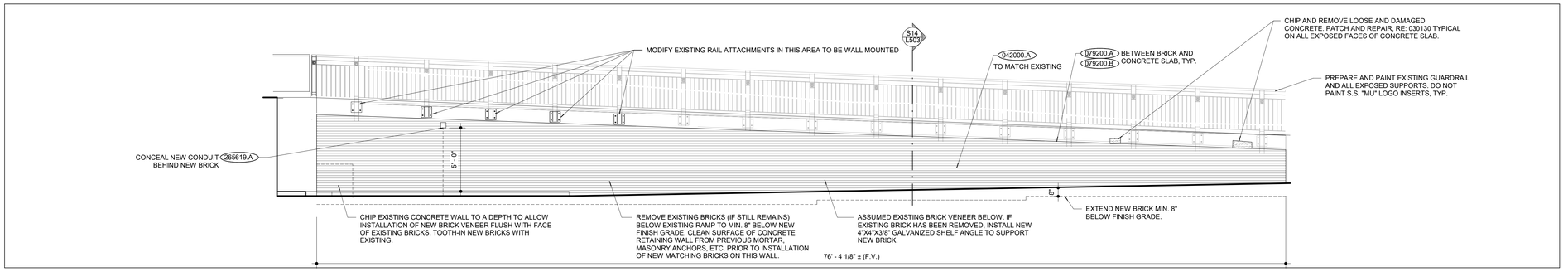
L101

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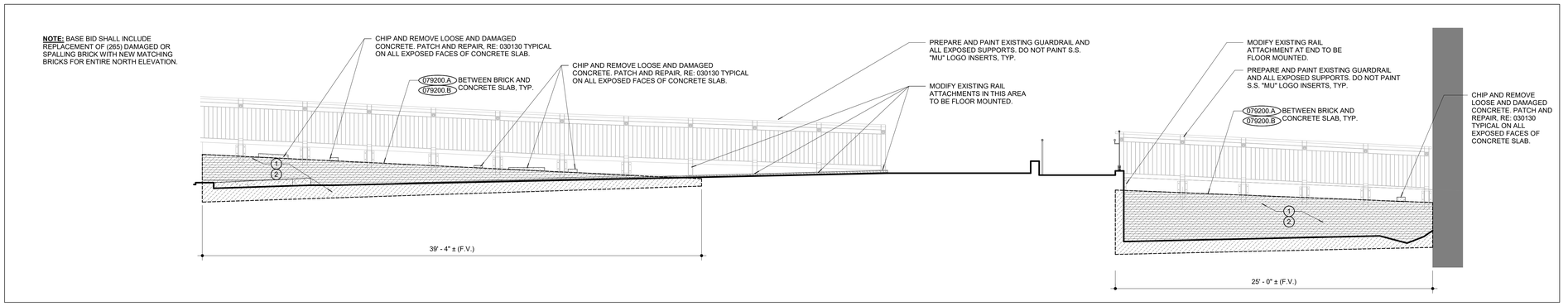
WEST SITE WALL ELEVATION | Y6

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



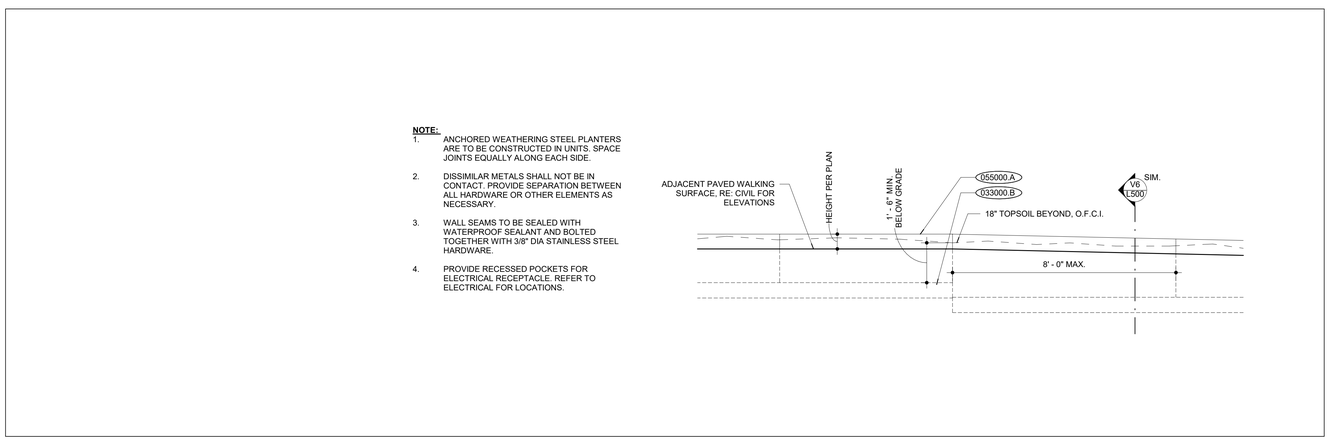
NORTHWEST SITE WALL ELEVATION | S6

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



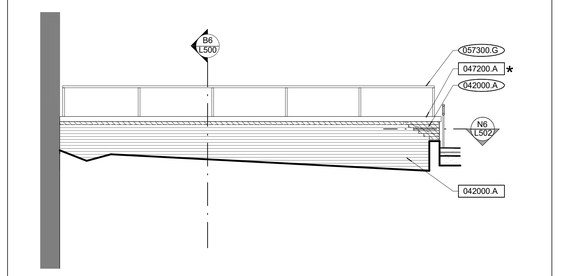
NORTH SITE WALL ELEVATION | K6

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



TYP. PLANTING EDGE ELEVATION | B15

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



WEST SITE WALL ELEVATION | B6

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

GENERAL MASONRY NOTES:

1. CONTRACTOR SHALL CLEAN ALL STONE AND BRICK MASONRY SURFACES, INCLUDING LEDGES, SILLS, RECESSES AND ENTRANCES WITHIN THE CONSTRUCTION LIMITS WITH SPECIFIED CLEANING PRODUCTS. CLEAN HEAVILY SOILED AREAS PRIOR TO THE APPLICATION OF NEW POINTING MORTAR. MASONRY CLEANING SHALL BE PERFORMED IN ORDER OF THE HIGHEST FLOOR LEVEL TO THE LOWEST FLOOR LEVEL.
2. CONTRACTOR SHALL PROTECT ALL OPEN, RAKED JOINTS DURING ADVERSE WEATHER CONDITIONS IN WHICH RAINWATER COULD INFILTRATE THE JOINT. RAKED JOINTS MUST BE PROTECTED WITH BACKER ROD AND PLASTIC COVER.
3. TYPICAL REPOINTING: CONTRACTOR SHALL RAKE AND RE-POINT ALL JOINTS IN AREAS INDICATED TO A MINIMUM OF 1" DEPTH. FILL ANY VOIDS AND CAVITIES PRIOR TO TUCK POINTING THE JOINTS.

MASONRY KEYNOTES:

1. RAKE ALL MORTAR JOINTS IN HATCHED AREA TO A MINIMUM OF 1" DEPTH AND TUCK POINT WITH MORTAR TO MATCH EXISTING APPEARANCE.
2. CLEAN ENTIRE EXPOSED AREA OF BRICK WALLS WITH SPECIFIED MASONRY CLEANERS.

EXISTING CONSTRUCTION 000000.X

EXISTING CONSTRUCTION 000000.X ★

TAG ALL MATERIALS WITH THEIR LOCATIONS AND SEQUENCING FOR RE-USE. REPAIR AND CLEAN ANY DAMAGED MATERIALS PRIOR TO BEING RE-SET.

NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE
033000.B CIP CONCRETE FOOTING (RE: STRUCT.)

DIVISION 04 MASONRY
042000.A FACE BRICK
047200.A STONE COPING

DIVISION 05 METALS
055000.A ANCHORED MODULAR PLANTER WALL
057300.A 1-1/2" DIA. STAINLESS STEEL LIGHTED HANDRAIL
057300.B STEEL HANDRAIL BRACKET
057300.G 1-1/2" DIA. STAINLESS STEEL GUARDRAIL

DIVISION 06 WOOD, PLASTICS + COMPOSITES

DIVISION 07 THERMAL + MOISTURE PROTECTION
079200.A JOINT SEALANT
079200.B BACKER ROD

DIVISION 08 OPENINGS

DIVISION 09 FINISHES

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS

DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 26 ELECTRICAL
265619.A EXTERIOR LIGHT FIXTURE (RE: ELECT.)

DIVISION 31 EARTHWORK

DIVISION 32 EXTERIOR IMPROVEMENTS

DIVISION 33 UTILITIES

NOTES | B1

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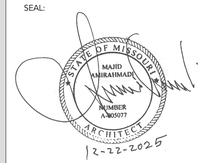
BINGHAM HALL - UPDATE COURTYARD AREA

ISSUED FOR BID

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DATE:	12/22/2025
PROJ. NO.:	CP231011
DESIGNED BY:	AO
DRAWN BY:	AO
CHECKED BY:	AS
APPROVED BY:	MA

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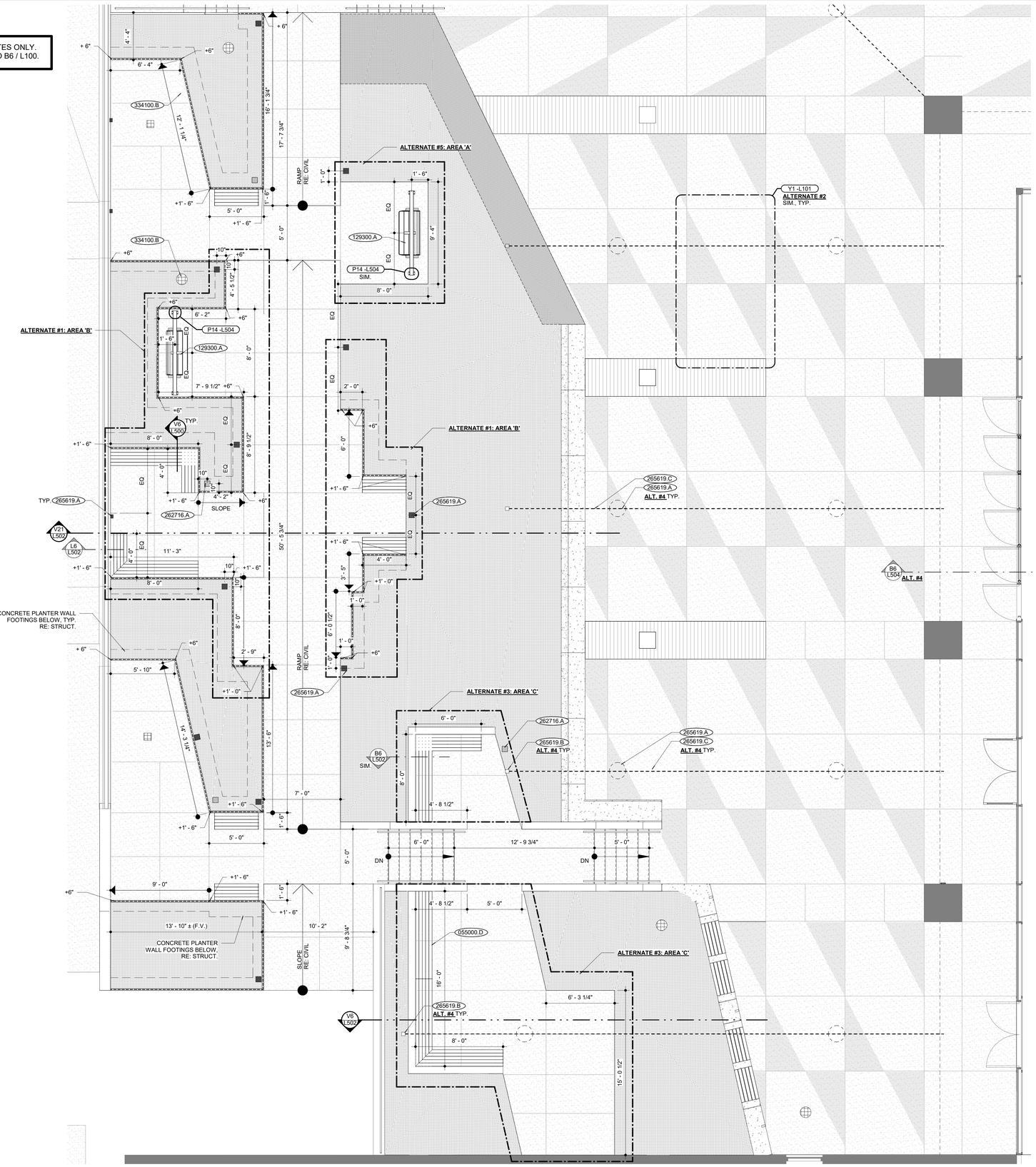
SITE ELEVATIONS

L200

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NOTE: THIS PLAN IS FOR ALTERNATES ONLY.
FOR BASE BID SITE PLAN REFER TO B6 / L100.



ENLARGED SITE PLAN - ALTERNATE

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

B6

GENERAL PLAN NOTES:

1. ELEVATIONS FOR TOP OF PLANTER WALLS ARE RELATIVE TO ADJACENT WALKING SURFACE, RE: CIVIL FOR PAVED CONCRETE ELEVATIONS.
2. ALL PLANTINGS AND LANDSCAPE SHOWN ARE FOR REFERENCE ONLY AND ARE TO BE BY OWNER. 18" OF TOPSOIL TO BE OWNER FURNISHED, CONTRACTOR INSTALLED.
3. FOR ALL EXPOSED NEW AND EXISTING CAST-IN-PLACE CONCRETE SITE WALLS PROVIDE SAND-BLASTED TEXTURE FINISH PER SPECIFICATION 030130.
4. REFER TO CIVIL DRAWINGS FOR PAVING EXPANSION JOINT LAYOUT. COORDINATE WITH CONTROL JOINT LAYOUT RE: B6/L100.

LEGEND

- CONCRETE PAVEMENT, RE: 321313
- CONCRETE PAVEMENT - SANDBLAST TEXTURE
- METAL TREE GRATE, RE: 055000
- PLANTING AREAS; 18" OF TOPSOIL, O.F.C.I.
- EXISTING PAVING
- STONE RETAINING EROSION PROTECTION AREAS, RE: 329250
- ANCHORED MODULAR WEATHERING STEEL PLANTER WALL, RE: 055000
- EXTENT OF CONSTRUCTION
- EXISTING TREE
- NEW TREE; BY OWNER
- LIGHT FIXTURE, RE: ELECT.

EXISTING CONSTRUCTION 000000.X

EXISTING CONSTRUCTION 000000.X *

TAG ALL MATERIALS WITH THEIR LOCATIONS AND SEQUENCING FOR RE-USE. REPAIR AND CLEAN ANY DAMAGED MATERIALS PRIOR TO BEING RE-SET.

NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE

DIVISION 04 MASONRY

DIVISION 05 METALS
055000.D WALL-HUNG FLAT BENCH

DIVISION 06 WOOD, PLASTICS + COMPOSITES

DIVISION 07 THERMAL + MOISTURE PROTECTION

DIVISION 08 OPENINGS

DIVISION 09 FINISHES

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS
129300.A SWING BENCH

DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 26 ELECTRICAL
262716.A OUTDOOR CHARGING PEDESTAL (RE: ELECT.)
265619.A EXTERIOR LIGHT FIXTURE (RE: ELECT.)
265619.B LIGHT FIXTURE POLE (RE: ELECT.)
265619.C CATENARY SUSPENSION SYSTEM (RE: ELECT.)

DIVISION 31 EARTHWORK

DIVISION 32 EXTERIOR IMPROVEMENTS

DIVISION 33 UTILITIES
334100.B INLINE DRAIN (RE: CIVIL)

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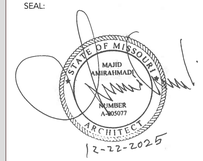
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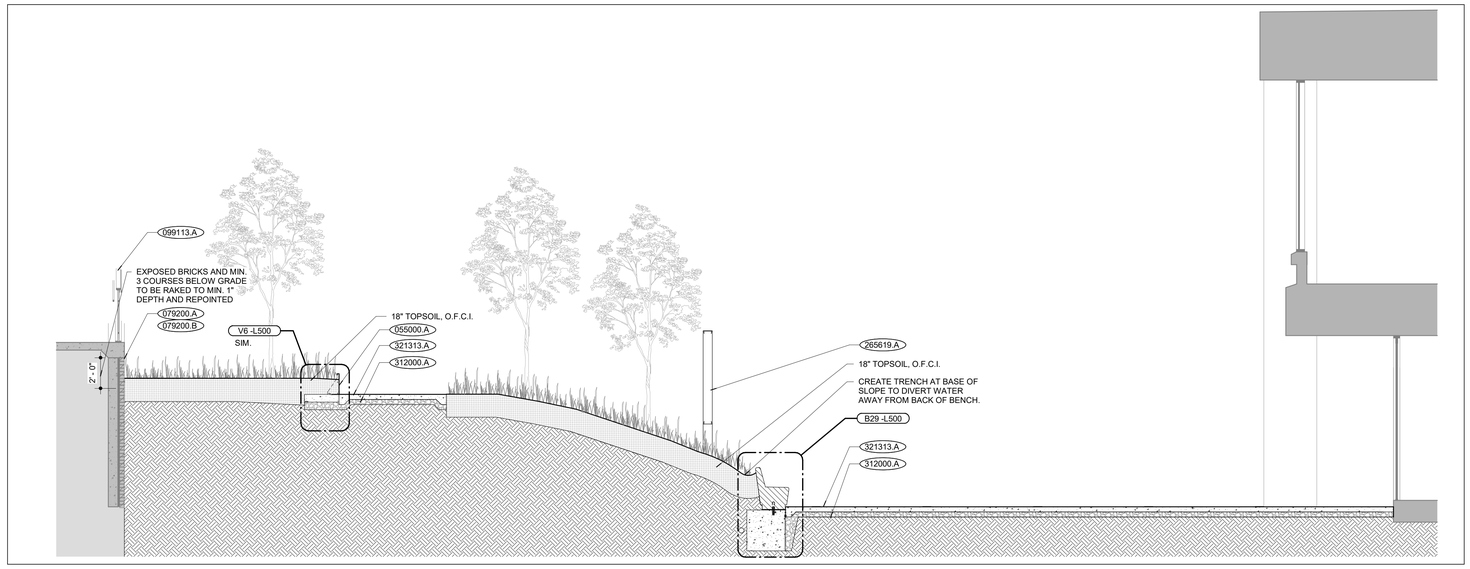
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ENLARGED PLAN - ALTERNATES

L300

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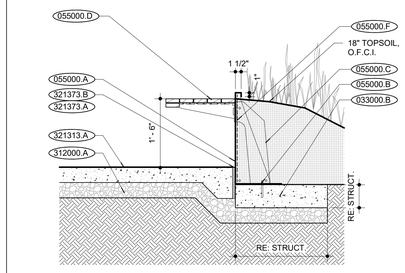
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0' 2' 4' 8'

SITE SECTION | V13

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



TYP. BENCH AT METAL EDGE | V6

SCALE: 3/4" = 1'-0"

0' 2' 4' 8'

SOUTH STAIR SECTION | J18

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

0' 6" 1' 2' 4'

SOUTH STAIR LANDING | J6

SCALE: 3/4" = 1'-0"

PRECAST BENCH SITE WALL | B29

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

NORTHWEST STAIR LANDING | B18

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

SITE SECTION | B6

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

EXISTING CONSTRUCTION 000000.X

EXISTING CONSTRUCTION 000000.X *

TAG ALL MATERIALS WITH THEIR LOCATIONS AND SEQUENCING FOR RE-USE. REPAIR AND CLEAN ANY DAMAGED MATERIALS PRIOR TO BEING RE-SET.

NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE

033000.A	CIP CONCRETE WALL (RE: STRUCT.)
033000.B	CIP CONCRETE FOOTING (RE: STRUCT.)
033000.C	GRANULAR FILL (RE: STRUCT.)
033000.E	CIP CONCRETE STAIRS (RE: STRUCT.)
033000.G	CIP CONCRETE GRADE BEAM (RE: STRUCT.)
034500.A	PRECAST BENCH WITH WOOD BENCH
034500.B	PRECAST BENCH
034500.C	PRECAST BENCH WITH BACK

DIVISION 04 MASONRY

047200.A	STONE COPING

DIVISION 05 METALS

055000.A	ANCHORED MODULAR PLANTER WALL
055000.B	3/8" S.S. THREADED EPOXY ANCHOR
055000.C	INTERNAL BENCH SUPPORT BRACKET
055000.D	WALL-HUNG FLAT BENCH
055000.F	DRAINAGE MAT
057300.A	1-1/2" DIA. STAINLESS STEEL LIGHTED HANDRAIL
057300.F	EXTERIOR GLASS RAIL
057300.G	1-1/2" DIA. STAINLESS STEEL GUARDRAIL

DIVISION 06 WOOD, PLASTICS + COMPOSITES

DIVISION 07 THERMAL + MOISTURE PROTECTION

071326.A	SELF-ADHERING SHEET WATERPROOFING
071326.B	PROTECTION BOARD
071326.C	MOLDED-SHEET DRAINAGE PANEL
071326.D	STAINLESS STEEL TERMINATION BAR
079200.A	JOINT SEALANT
079200.B	BACKER ROD

DIVISION 08 OPENINGS

DIVISION 09 FINISHES

099113.A	EXTERIOR PAINT

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS

DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 26 ELECTRICAL

265619.A	EXTERIOR LIGHT FIXTURE (RE: ELECT.)

DIVISION 31 EARTHWORK

312000.A	4" COMPACTED GRAVEL BASE

DIVISION 32 EXTERIOR IMPROVEMENTS

321313.A	CONCRETE PAVING
321373.A	JOINT SEALANT
321373.B	EXPANSION FILLER

DIVISION 33 UTILITIES

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BINGHAM HALL - UPDATE COURTYARD AREA

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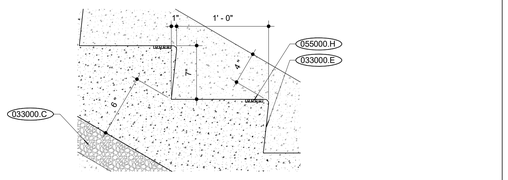
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SITE SECTIONS & DETAILS

L500

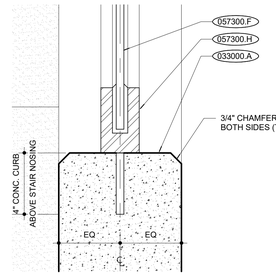
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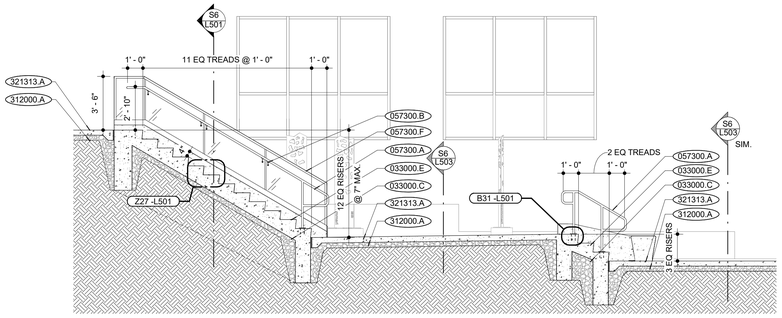
TYP. TREAD AND RISER DETAIL | Z27

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



GLASS RAIL DETAIL | Z21

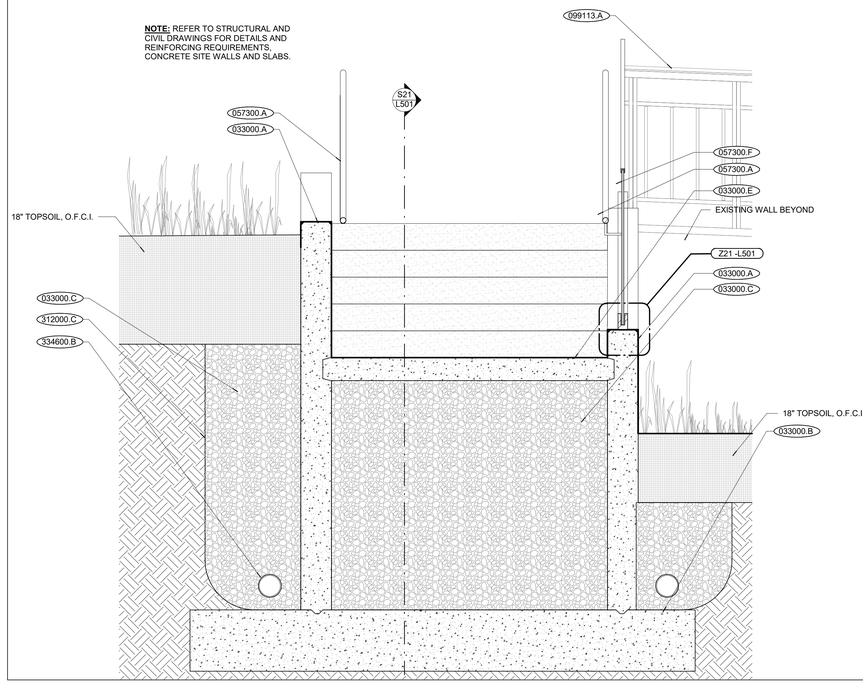
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NORTH STAIR SECTION | S21

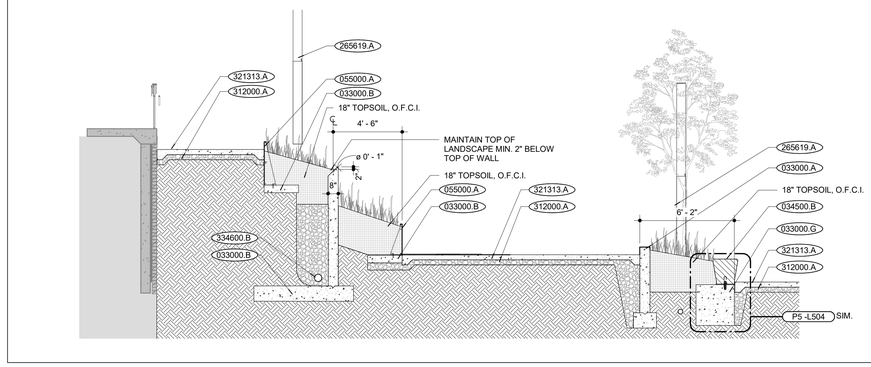
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0' 6" 1' 2' 4'

NORTH STAIR SECTION DETAIL | S6

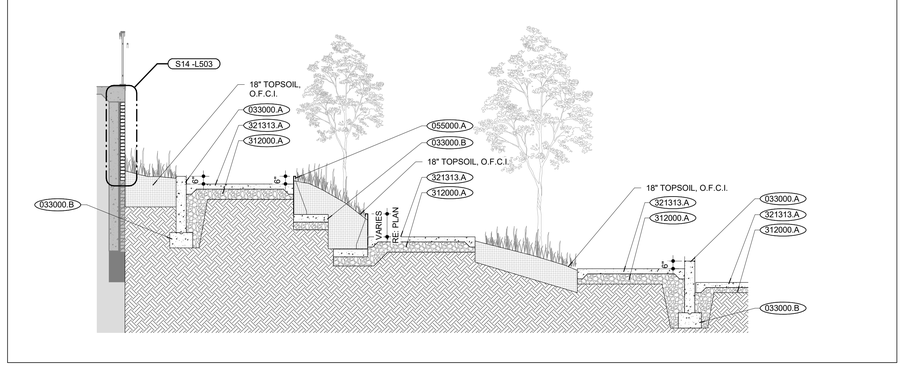
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0' 2' 4' 8'

SITE SECTION | K21

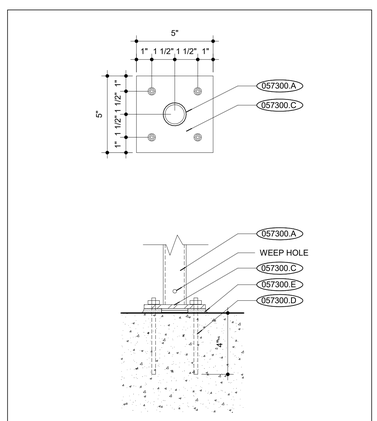
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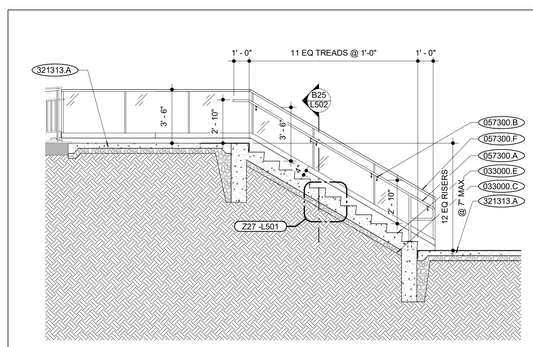
SITE SECTION | K6

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



TYP. HANDRAIL DETAIL | B31

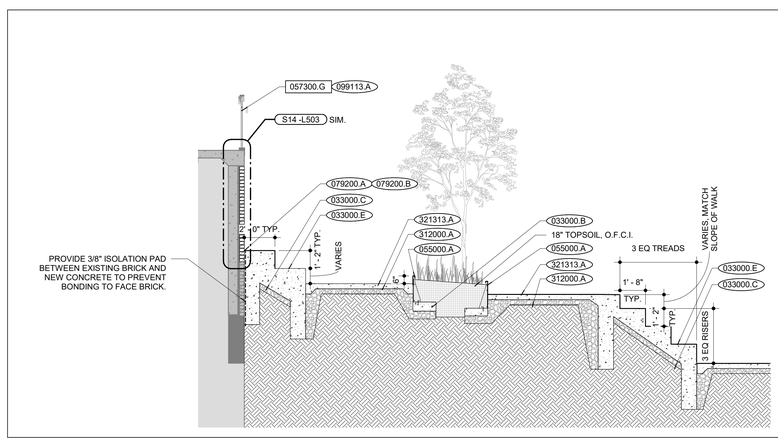
SCALE: 3" = 1'-0"



0' 2' 4' 8'

WEST STAIR SECTION | B21

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



0' 2' 4' 8'

SITE SECTION | B6

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

NOTES | B1

EXISTING CONSTRUCTION 000000.X

EXISTING CONSTRUCTION 000000.X *

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NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE

033000.A	CIP CONCRETE WALL (RE: STRUCT.)
033000.B	CIP CONCRETE FOOTING (RE: STRUCT.)
033000.C	GRANULAR FILL (RE: STRUCT.)
033000.E	CIP CONCRETE STAIRS (RE: STRUCT.)
033000.G	CIP CONCRETE GRADE BEAM (RE: STRUCT.)
034500.B	PRECAST BENCH

DIVISION 04 MASONRY

DIVISION 05 METALS

055000.A	ANCHORED MODULAR PLANTER WALL
055000.H	ANTI-SLIP STAIR NOSING
057300.A	1-1/2" DIA. STAINLESS STEEL LIGHTED HANDRAIL
057300.B	STEEL HANDRAIL BRACKET
057300.C	1/2" STAINLESS STEEL BASEPLATE
057300.D	3/8" S.S. THREADED EPOXY ANCHOR
057300.E	NON-SHRINK GROUT
057300.F	EXTERIOR GLASS RAIL
057300.G	1-1/2" DIA. STAINLESS STEEL GUARDRAIL
057300.H	GLASS RAIL BASE CHANNEL

DIVISION 06 WOOD, PLASTICS + COMPOSITES

DIVISION 07 THERMAL + MOISTURE PROTECTION

079200.A	JOINT SEALANT
079200.B	BACKER ROD

DIVISION 08 OPENINGS

DIVISION 09 FINISHES

099113.A	EXTERIOR PAINT

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS

DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 26 ELECTRICAL

265619.A EXTERIOR LIGHT FIXTURE (RE: ELECT.)

DIVISION 31 EARTHWORK

312000.A	4" COMPACTED GRAVEL BASE
312000.C	GEOTEXTILE FABRIC

DIVISION 32 EXTERIOR IMPROVEMENTS

321313.A CONCRETE PAVING

DIVISION 33 UTILITIES

334600.B 6" DIA. PERFORATED PVC PIPE W/FILTER FABRIC

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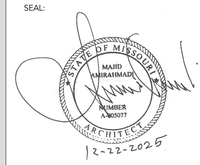
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APPROVED BY:	MA

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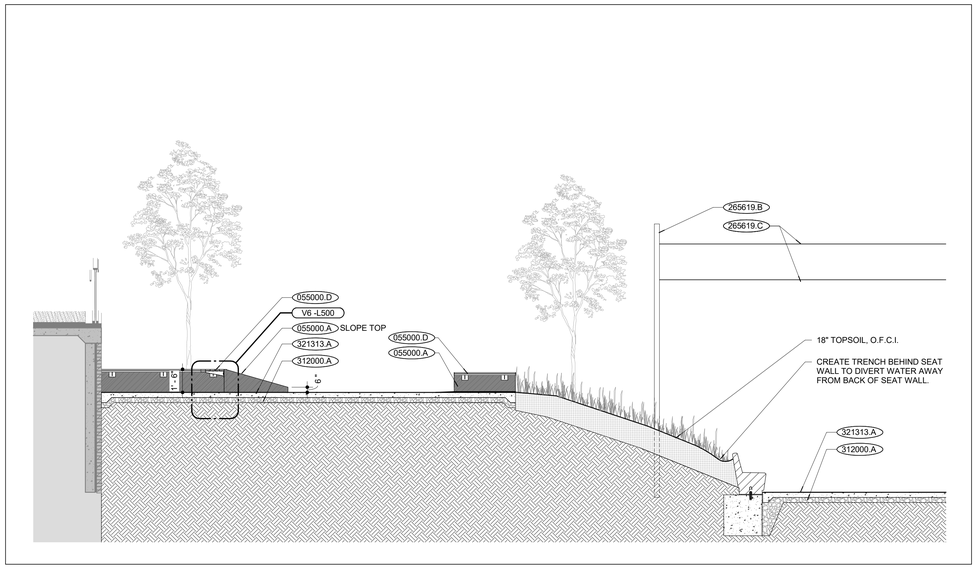
NO.	REVISION SUBMISSION	DATE
0	ISSUED FOR BID	12/22/2025

SITE SECTIONS & DETAILS

L501

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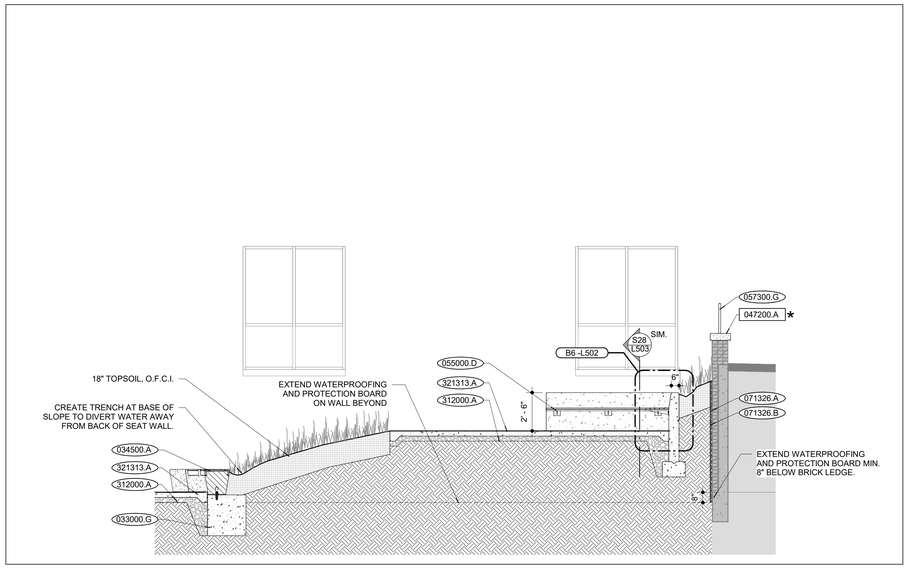
12/14/2025 9:25:53 AM



0' 2' 4' 8'

ALTERNATES SITE SECTION - A | V21

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



0' 2' 4' 8'

ALTERNATES SITE SECTION - B | V6

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

EXISTING CONSTRUCTION 000000.X

EXISTING CONSTRUCTION 000000.X *

TAG ALL MATERIALS WITH THEIR LOCATIONS AND SEQUENCING FOR RE-USE. REPAIR AND CLEAN ANY DAMAGED MATERIALS PRIOR TO BEING RE-SET.

NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE

033000.A	CIP CONCRETE WALL (RE: STRUCT.)
033000.C	GRANULAR FILL (RE: STRUCT.)
033000.E	CIP CONCRETE STAIRS (RE: STRUCT.)
033000.G	CIP CONCRETE GRADE BEAM (RE: STRUCT.)
034500.A	PRECAST BENCH WITH WOOD BENCH

DIVISION 04 MASONRY

042000.A	FACE BRICK
042000.B	SOLID GROUT
042000.C	WEEP
042000.D	COPPER FABRIC FLASHING
042000.E	S.S. DRIP EDGE
042000.F	S.S. DOWEL
047200.A	STONE COPING

DIVISION 05 METALS

055000.A	ANCHORED MODULAR PLANTER WALL
055000.D	WALL-HUNG FLAT BENCH
057300.A	1-1/2" DIA. STAINLESS STEEL LIGHTED HANDRAIL
057300.F	EXTERIOR GLASS RAIL
057300.G	1-1/2" DIA. STAINLESS STEEL GUARDRAIL

DIVISION 06 WOOD, PLASTICS + COMPOSITES

DIVISION 07 THERMAL + MOISTURE PROTECTION

071326.A	SELF-ADHERING SHEET WATERPROOFING
071326.B	PROTECTION BOARD
071326.C	MOLDED-SHEET DRAINAGE PANEL
071326.D	STAINLESS STEEL TERMINATION BAR
079200.A	JOINT SEALANT
079200.B	BACKER ROD

DIVISION 08 OPENINGS

DIVISION 09 FINISHES

099113.A	EXTERIOR PAINT

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS

DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 26 ELECTRICAL

265619.B	LIGHT FIXTURE POLE (RE: ELECT.)
265619.C	CATENARY SUSPENSION SYSTEM (RE: ELECT.)

DIVISION 31 EARTHWORK

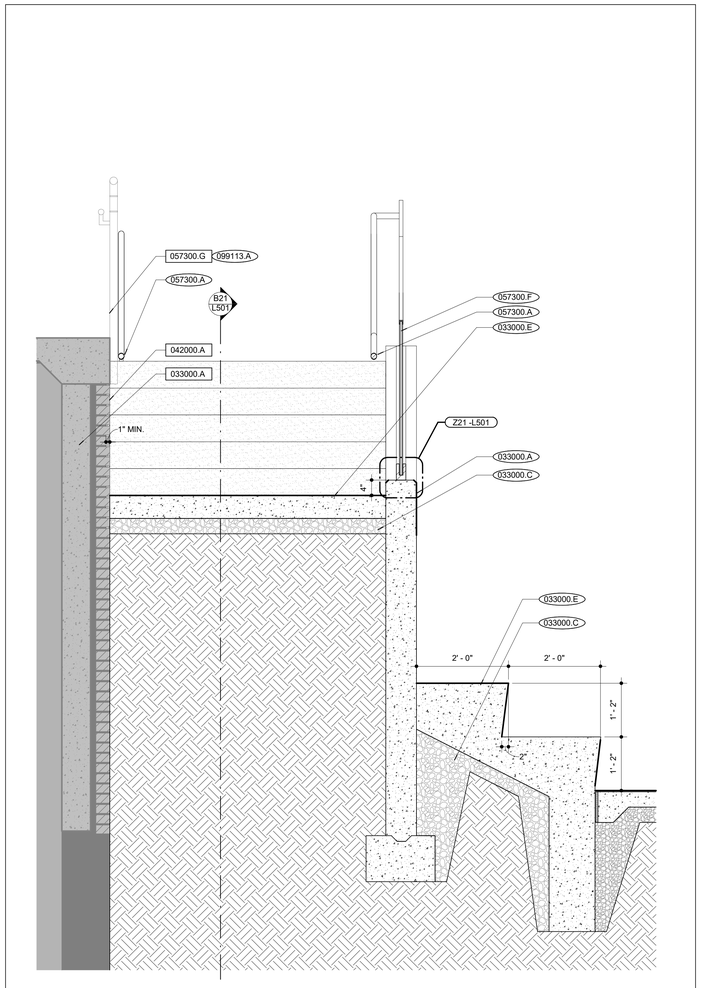
312000.A	4" COMPACTED GRAVEL BASE

DIVISION 32 EXTERIOR IMPROVEMENTS

321313.A	CONCRETE PAVING
321373.A	JOINT SEALANT
321373.B	EXPANSION FILLER

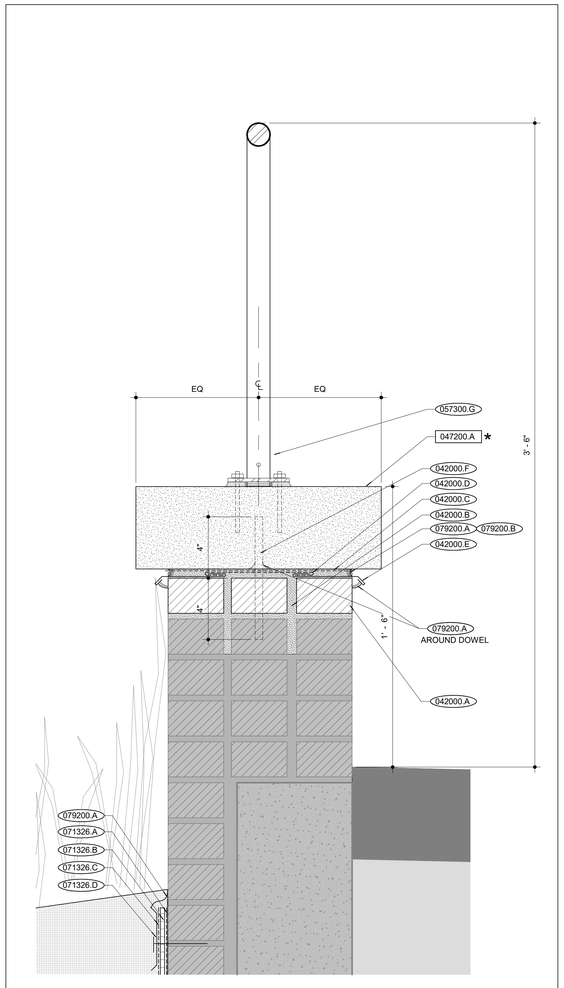
DIVISION 33 UTILITIES

NOTES | B1



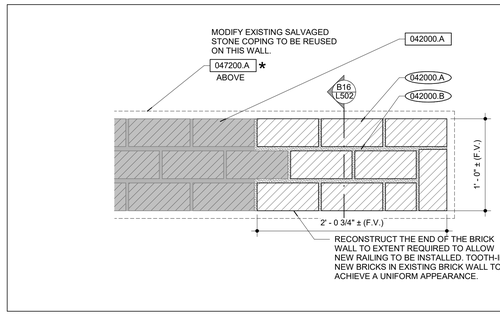
NORTHWEST STAIR SECTION | B25

SCALE: 3/4" = 1'-0"



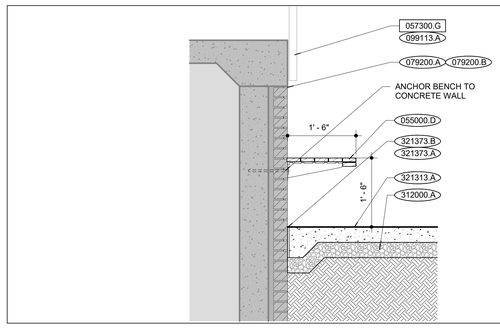
CAPSTONE DETAIL | B16

SCALE: 3" = 1'-0"



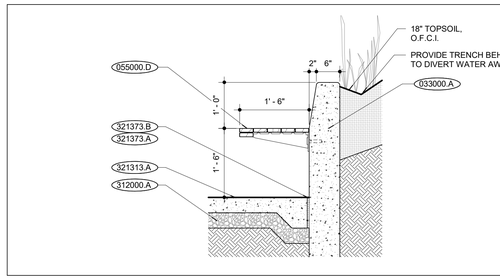
BRICK WALL PLAN DETAIL | N6

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



ALTERNATES WALL BENCH AT BRICK WALL | L6

SCALE: 3/4" = 1'-0"



ALTERNATES WALL BENCH AT CONCRETE WALL | B6

SCALE: 3/4" = 1'-0"

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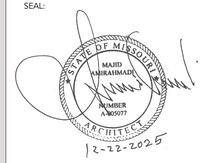
BINGHAM HALL - UPDATE COURTYARD AREA

ISSUED FOR BID

902 S COLLEGE AVE
COLUMBIA, MO 65201

DATE:	12/22/2025
PROJ. NO.:	CP231011
DESIGNED BY:	AO
DRAWN BY:	AO
CHECKED BY:	AS
APPROVED BY:	MA

SEAL:



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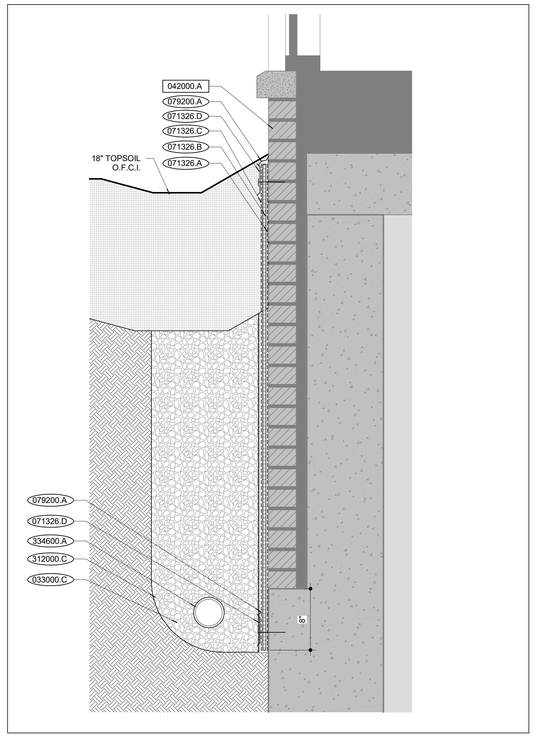
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SITE SECTIONS & DETAILS

L502

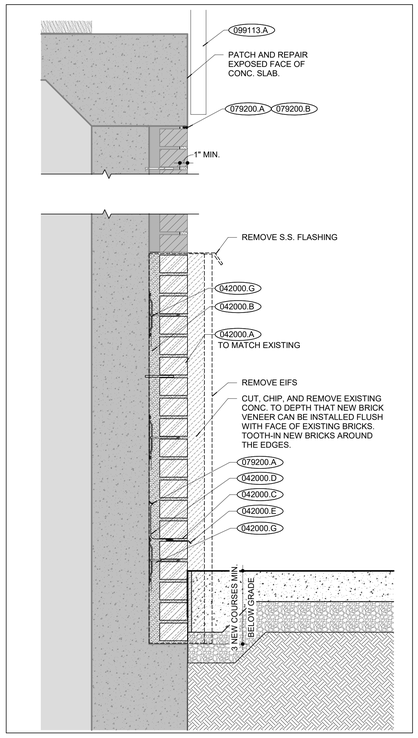
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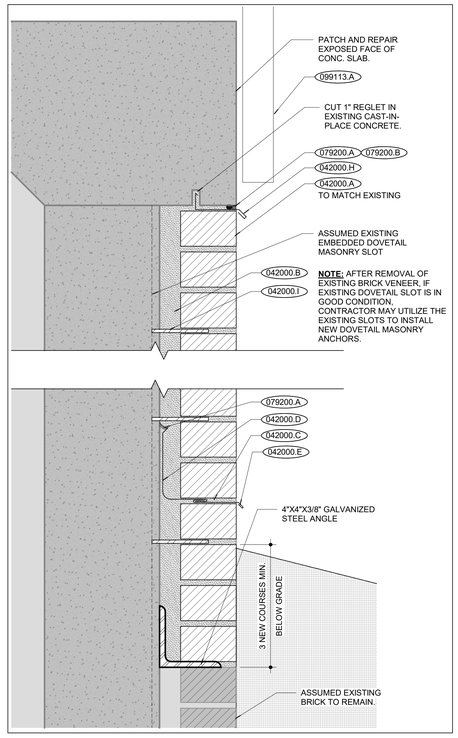
WATERPROOFING AT EXISTING WALL | S28

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



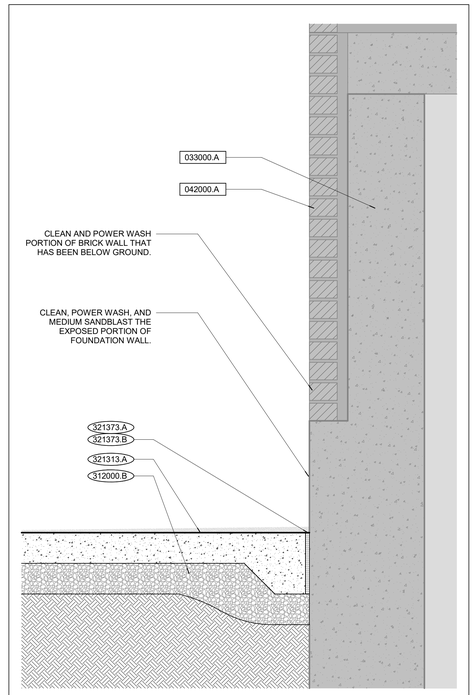
SECTION - WEST WALL | S21

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



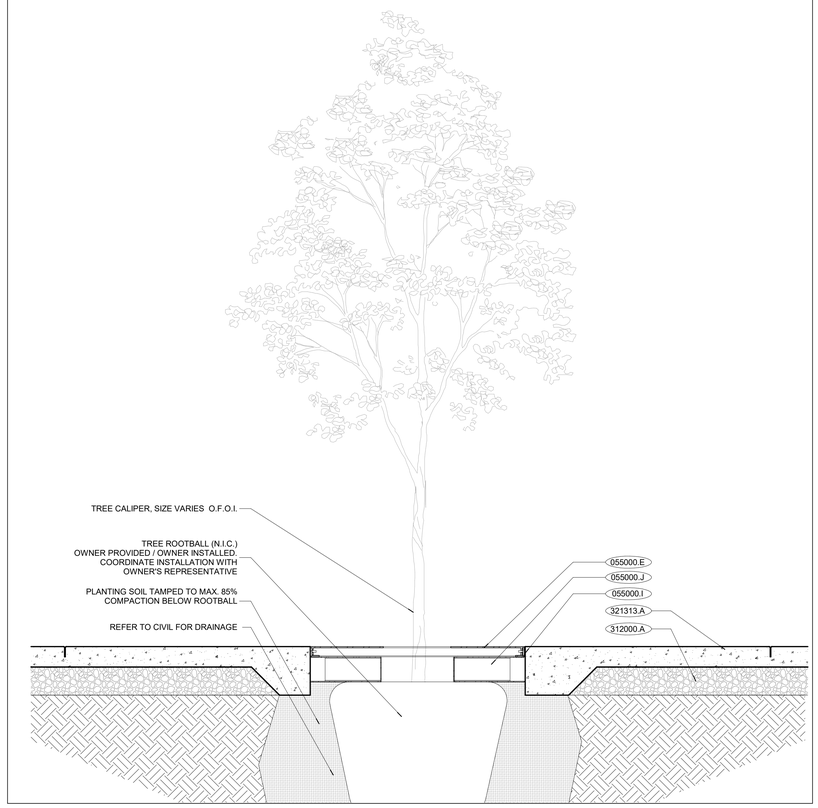
SECTION AT NEW BRICK | S14

SCALE: 3" = 1'-0"



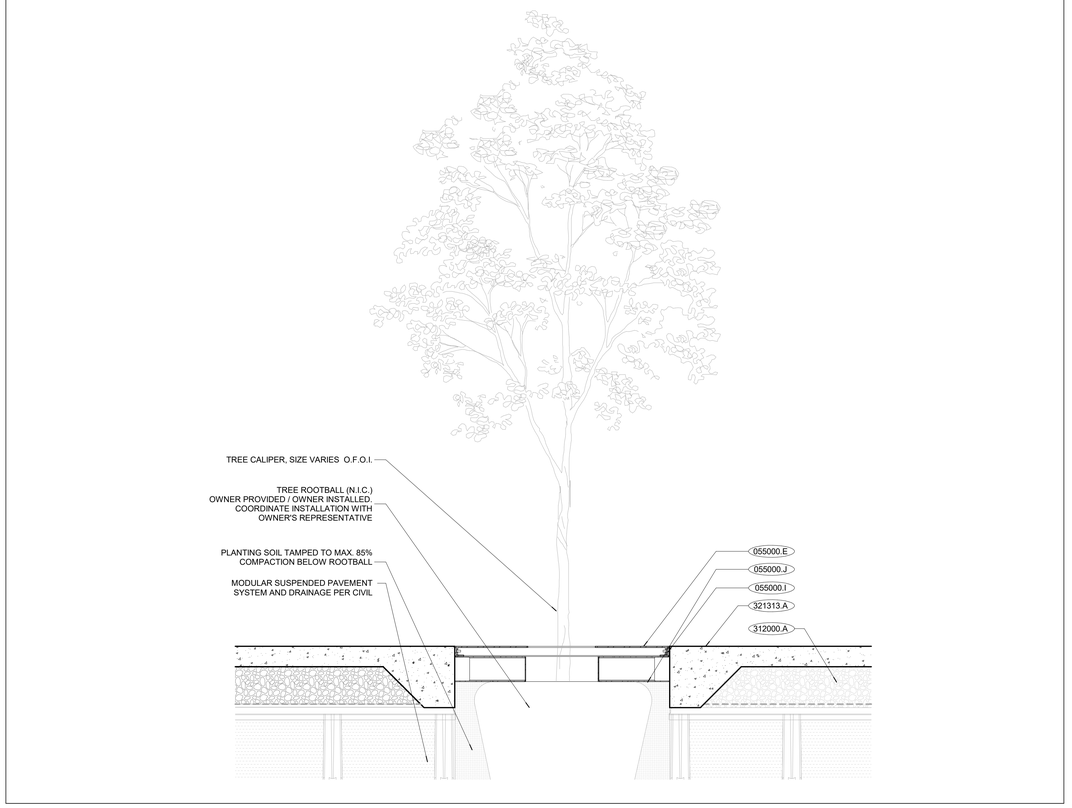
PAVEMENT AT EXISTING WALL | S6

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



TREE GRATE AT TREE WELL DETAIL | B23

SCALE: 1" = 1'-0"



TREE GRATE AT MODULAR SUSPENDED PAVING SYSTEM | B6

SCALE: 1" = 1'-0"

EXISTING CONSTRUCTION 000000.X

EXISTING CONSTRUCTION 000000.X *

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NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE
033000.A CIP CONCRETE WALL (RE: STRUCT.)
033000.C GRANULAR FILL (RE: STRUCT.)

DIVISION 04 MASONRY
042000.A FACE BRICK
042000.B SOLID GROUT
042000.C WEEP
042000.D COPPER FABRIC FLASHING
042000.E S.S. DRIP EDGE
042000.G MASONRY ANCHOR
042000.H S.S. FLASHING
042000.I DOVETAIL MASONRY ANCHOR

DIVISION 05 METALS
055000.E METAL TREE GRATE GRILLE
055000.I METAL TREE GRATE SUPPORT FRAME
055000.J METAL TREE GRATE MOUNTING FRAME

DIVISION 06 WOOD, PLASTICS + COMPOSITES

DIVISION 07 THERMAL + MOISTURE PROTECTION
071326.A SELF-ADHERING SHEET WATERPROOFING
071326.B PROTECTION BOARD
071326.C MOLDED-SHEET DRAINAGE PANEL
071326.D STAINLESS STEEL TERMINATION BAR
079200.A JOINT SEALANT
079200.B BACKER ROD

DIVISION 08 OPENINGS

DIVISION 09 FINISHES
099113.A EXTERIOR PAINT

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS

DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 26 ELECTRICAL

DIVISION 31 EARTHWORK
312000.A 4" COMPACTED GRAVEL BASE
312000.B 4" COMPACTED GRAVEL BASE
312000.C GEOTEXTILE FABRIC

DIVISION 32 EXTERIOR IMPROVEMENTS
321313.A CONCRETE PAVING
321373.A JOINT SEALANT
321373.B EXPANSION FILLER

DIVISION 33 UTILITIES
334600.A 4" DIA. PERFORATED PVC PIPE W/FILTER FABRIC

NOTES | B1

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BINGHAM HALL - UPDATE COURTYARD AREA

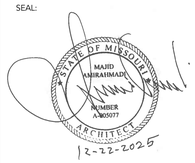
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902 S COLLEGE AVE
COLUMBIA, MO 65201

DATE: 12/22/2025
PROJ. NO.: CP231011

DESIGNED BY: AO
DRAWN BY: AO
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APPROVED BY: MA

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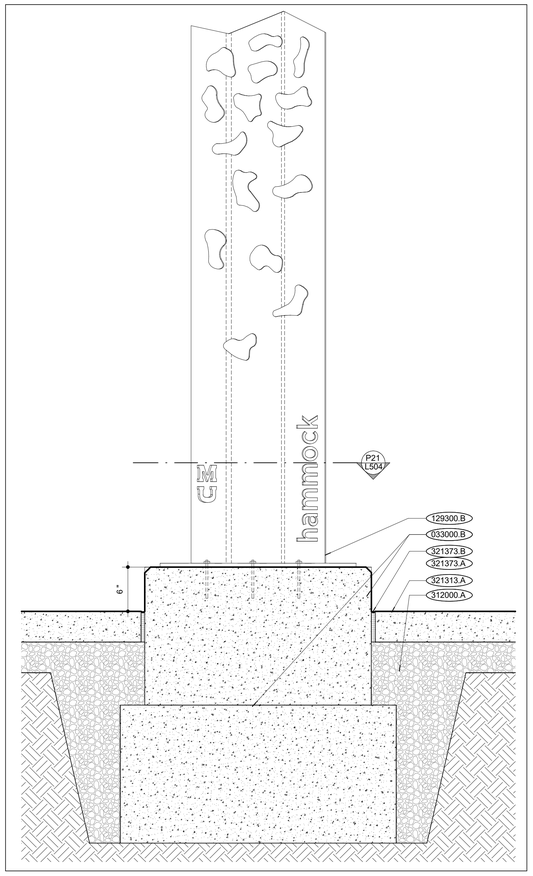
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SITE SECTIONS & DETAILS

L503

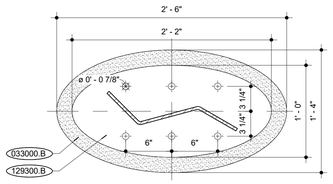
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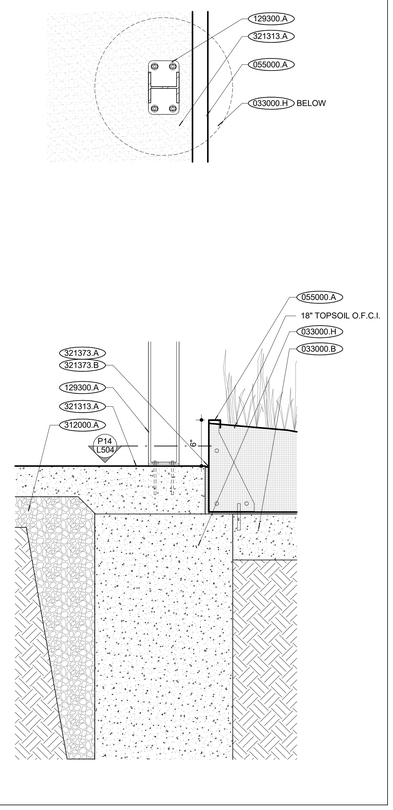
HAMMOCK STAND SECTION
SCALE: 1 1/2" = 1'-0"

P28



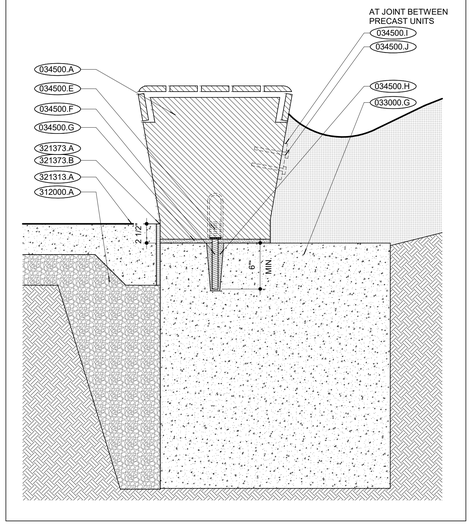
HAMMOCK STAND BASE PLATE
SCALE: 1 1/2" = 1'-0"

P21



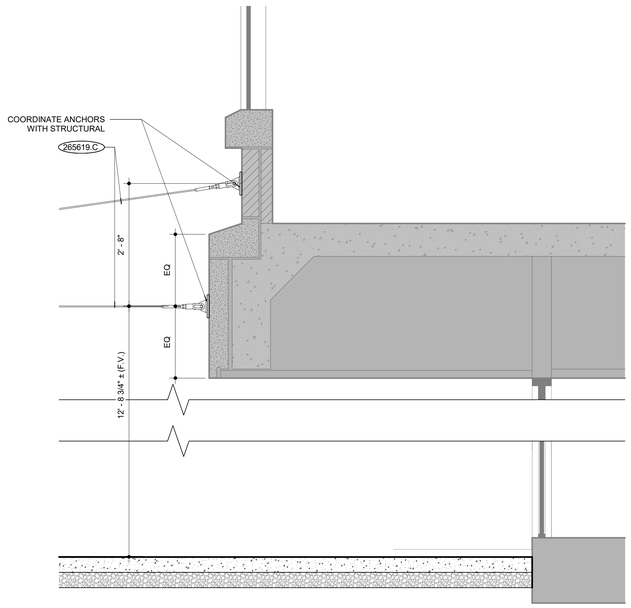
ALT. SWING BENCH BASE PLATE
SCALE: 1 1/2" = 1'-0"

P14



PRECAST BENCH ATTACHMENT
SCALE: 1 1/2" = 1'-0"

P5



ALTERNATE #4 CATENARY CABLE ATTACHMENT
SCALE: 3/4" = 1'-0"

B6

EXISTING CONSTRUCTION 000000.X

EXISTING CONSTRUCTION 000000.X *

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NEW CONSTRUCTION 000000.X

DIVISION 03 CONCRETE

033000.B	CIP CONCRETE FOOTING (RE: STRUCT.)
033000.G	CIP CONCRETE GRADE BEAM (RE: STRUCT.)
033000.H	CIP CONCRETE PIER (RE: STRUCT.)
034500.A	PRECAST BENCH WITH WOOD BENCH
034500.E	PRECAST THREADED INSERTS
034500.F	THREADED ROD
034500.G	SETTING MORTAR BED
034500.H	NON SHRINK GROUT
034500.I	1/2" STAINLESS STEEL PLATE
034500.J	3/8" S.S. THREADED EPOXY ANCHOR

DIVISION 04 MASONRY

DIVISION 05 METALS

055000.A	ANCHORED MODULAR PLANTER WALL

DIVISION 06 WOOD, PLASTICS + COMPOSITES

DIVISION 07 THERMAL + MOISTURE PROTECTION

DIVISION 08 OPENINGS

DIVISION 09 FINISHES

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS

129300.A	SWING BENCH
129300.B	HAMMOCK STAND

DIVISION 14 CONVEYING EQUIPMENT

DIVISION 22 PLUMBING

DIVISION 23 HVAC

DIVISION 26 ELECTRICAL

265619.C	CATENARY SUSPENSION SYSTEM (RE: ELECT.)

DIVISION 31 EARTHWORK

312000.A	4" COMPACTED GRAVEL BASE

DIVISION 32 EXTERIOR IMPROVEMENTS

321313.A	CONCRETE PAVING
321373.A	JOINT SEALANT
321373.B	EXPANSION FILLER

DIVISION 33 UTILITIES

NOTES

B1

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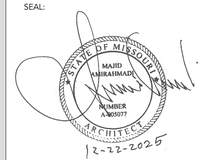
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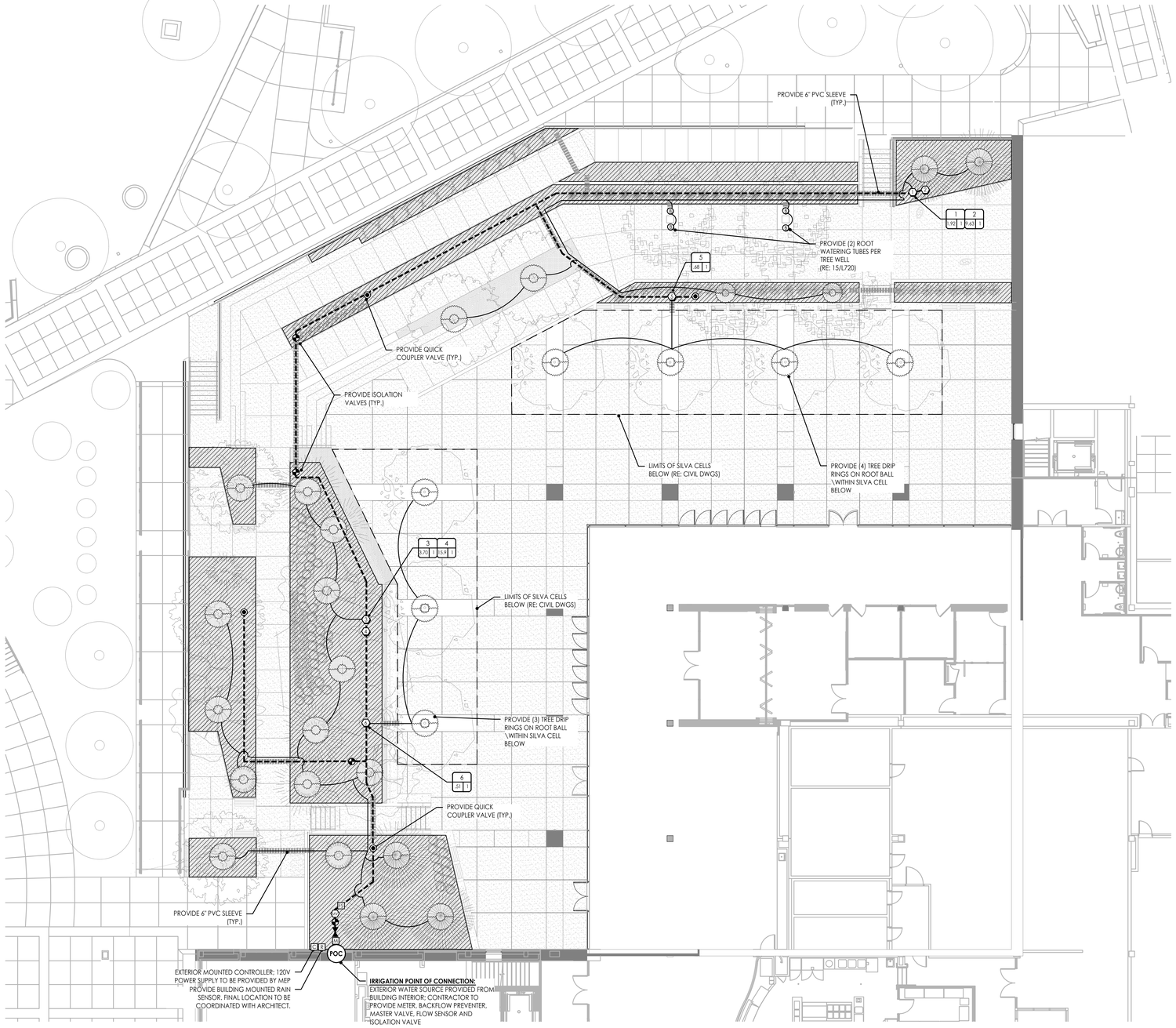
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SITE SECTIONS & DETAILS

L504

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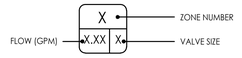
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IRRIGATION LEGEND

SYMBOL	DESCRIPTION	DETAIL
	1.5" PVC MAINLINE	RE: SECTION 328400/ RE: DETAIL 2/L720
	PVC LATERAL LINE (1" UNLESS NOTED)	RE: SECTION 328400 / RE: DETAIL 2/L720
	PVC PIPE SLEEVE (6" UNLESS NOTED)	RE: DETAIL 3/L720
C	CONTROLLER	RE: DETAIL 16/L720
R	RAIN SENSOR	RE: DETAIL 17/L720
MV	MASTER VALVE	RE: DETAIL 5/L720
M	WATER METER (N.I.C.)	RE: MEP DRAWINGS
V	DRIP CONTROL KIT	RE: DETAIL 8/L720
	ISOLATION VALVE	RE: DETAIL 6/L720
	QUICK COUPLER	RE: DETAIL 4/L720
FS	FLOW SENSOR	RE: DETAIL 7/L720
	BACKFLOW PREVENTER	RE: SECTION 328400
	TREE DRIP RING	RE: DETAIL 14/L720
	TREE ROOT WATERING TUBE	RE: DETAIL 15/L720
	DRIP IRRIGATION	RE: DETAILS SHEET L720

IRRIGATION ZONE TAG



IRRIGATION NOTES

1. THIS PLAN ILLUSTRATES THE COMPLETE AUTOMATIC IRRIGATION SYSTEM TO BE PROVIDED BY THE CONTRACTOR. REFER TO **SECTION 328400 - PLANTING IRRIGATION** FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS AND EXECUTION OF WORK.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BY CONTACTING ALL OF THE RESPECTIVE UTILITY COMPANIES AND/ OR THE LOCAL "ONE-CALL"/"CALL-BEFORE-YOU-DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
3. VERIFY ALL SITE CONDITIONS AND DIMENSIONS SHOWN ON THE PLAN PRIOR TO COMMENCEMENT OF WORK. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
4. CONTRACTOR TO VERIFY STATIC AND RESIDUAL PRESSURE AND FLOW (IN GPM) AT THE POINT(S) OF CONNECTION. SYSTEM REQUIREMENTS ARE A MINIMUM 50 GPM AT 70 PSI AT THE POINT OF CONNECTION (DOWNSTREAM OF BACKFLOW PREVENTER).
5. IRRIGATION DESIGNS ARE DIAGRAMMATIC; ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS FOR DESIGN INTENT OR GUIDELINE ONLY AND SHALL BE INSTALLED IN THE FIELD AREAS IN A MANNER TO CONFORM TO THE VARIOUS DETAILS AND APPROVED SHOP DRAWINGS AS DIRECTED.
6. THE FINAL LOCATION AND EXACT POSITIONING OF AUTOMATIC CONTROLLERS AND RAIN SENSOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
7. 120-VOLT ELECTRICAL POWER SERVICE PROVIDED BY OTHERS; REFER TO ELECTRICAL.
8. INSTALL TRACER WIRE (#14 WITH PVC JACKET) ALONG ALL MAINLINE WHERE CONTROL WIRES OR TWO-WIRE PATH IS NOT PRESENT.

IMPORTANT:
WINTERIZATION WATER BLOW-OUT PROCESS WARNING -- THE IRRIGATION SYSTEM IS DESIGNED TO BE COMPLETELY DRAINED BY THE USE OF AN AIR COMPRESSOR TO PROTECT PIPES FROM BURSTING PRIOR TO FREEZING TEMPERATURES.

IRRIGATION SCHEDULE

ZONE	ZONE TYPE	LINE INFORMATION	FLOW (GPM)	OPERATING PRESSURE (PSI)	VALVE SIZE
1	TREE DRIP	DRIP: 138 LF (23LF EACH X 6); TREE DIAMETER EMITTER @0.60GPH; (4) RWS-B-C-1402; ROOT ZONE WATERING @ .25 gpm	1.92	30	1"
2	DRIP	DRIP: 1438 LF; 18"O.C., 0.60GPH	9.63	40	1"
3	TREE DRIP	DRIP: 368 LF (23LF EACH X 16); TREE DIAMETER EMITTER @0.60GPH	3.70	30	1"
4	DRIP	DRIP: 2376 LF; 18"O.C., 0.60GPH	15.91	40	1"
5	TREE DRIP	DRIP: 92 LF (23LF EACH X 4); TREE DIAMETER EMITTER @0.60GPH	.68	30	1"
6	TREE DRIP	DRIP: 69 LF (23LF EACH X 2); TREE DIAMETER EMITTER @0.60GPH	.51	30	1"

1 **IRRIGATION PLAN (BASE BID)**
Scale: 1" = 10'

SCALE= 1:10

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FOR THE CURATORS OF
THE UNIVERSITY OF MISSOURI

BINGHAM HALL - UPDATE COURTYARD AREA

ISSUED FOR BID

902 S COLLEGE AVE
COLUMBIA, MO 65201

DATE:	12/22/2025
PROJ. NO.:	CP231011
DESIGNED BY:	RWB
DRAWN BY:	RWB
CHECKED BY:	BDR
APPROVED BY:	BDR

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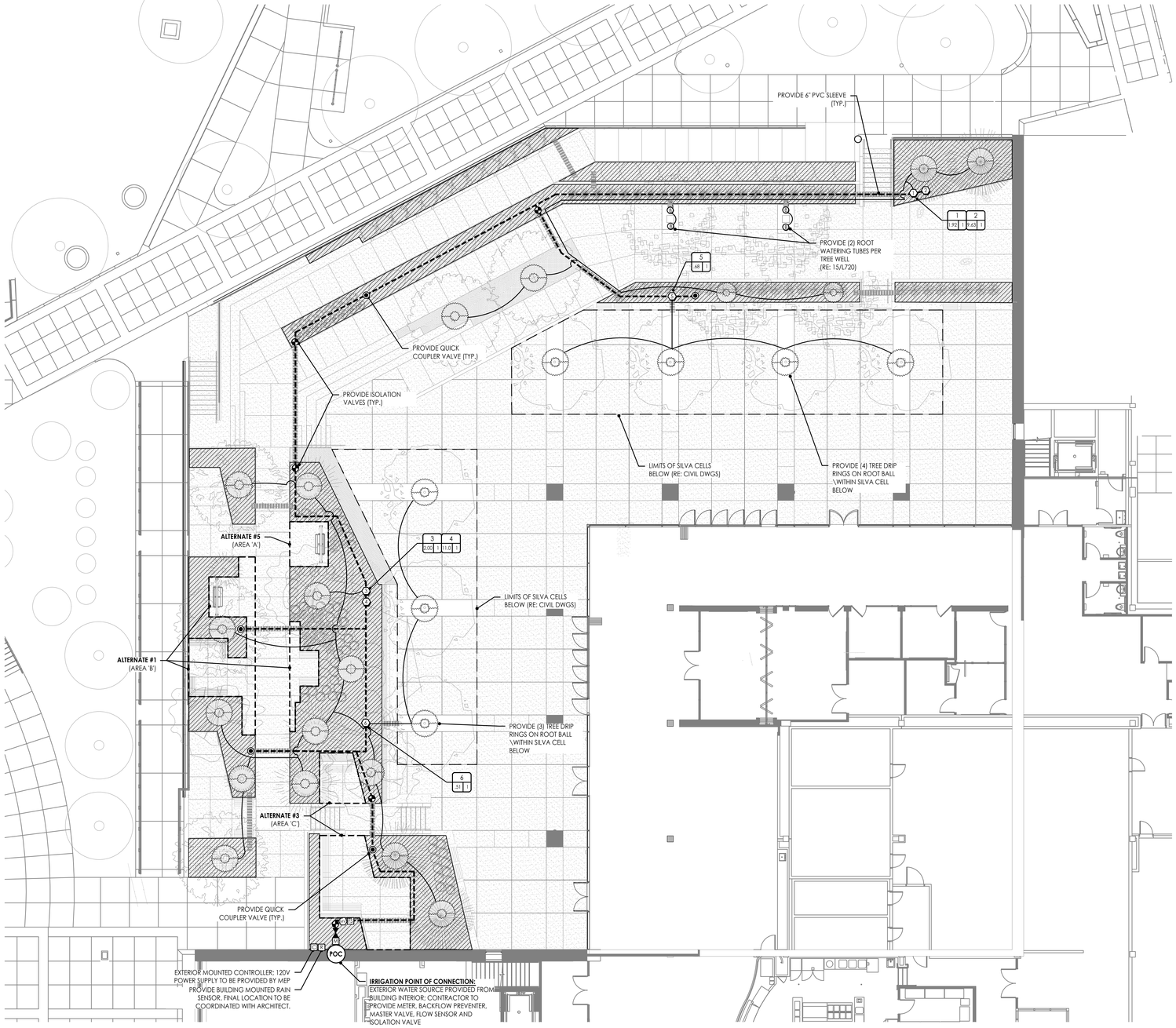
IRRIGATION PLAN - BASE BID

L701

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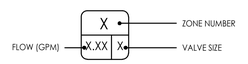
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IRRIGATION LEGEND

SYMBOL	DESCRIPTION	DETAIL
	1.5" PVC MAINLINE	RE: SECTION 328400/ RE: DETAIL 2/L720
	PVC LATERAL LINE (1" UNLESS NOTED)	RE: SECTION 328400 / RE: DETAIL 2/L720
	PVC PIPE SLEEVE (6" UNLESS NOTED)	RE: DETAIL 3/L720
C	CONTROLLER	RE: DETAIL 16/L720
R	RAIN SENSOR	RE: DETAIL 17/L720
MV	MASTER VALVE	RE: DETAIL 5/L720
M	WATER METER (N.I.C.)	RE: MEP DRAWINGS
X	DRIP CONTROL KIT	RE: DETAIL 8/L720
	ISOLATION VALVE	RE: DETAIL 6/L720
	QUICK COUPLER	RE: DETAIL 4/L720
FS	FLOW SENSOR	RE: DETAIL 7/L720
	BACKFLOW PREVENTER	RE: SECTION 328400
	TREE DRIP RING	RE: DETAIL 14/L720
B	TREE ROOT WATERING TUBE	RE: DETAIL 15/L720
	DRIP IRRIGATION	RE: DETAILS SHEET L720

IRRIGATION ZONE TAG



IRRIGATION NOTES

1. THIS PLAN ILLUSTRATES THE COMPLETE AUTOMATIC IRRIGATION SYSTEM TO BE PROVIDED BY THE CONTRACTOR. REFER TO **SECTION 328400 - PLANTING IRRIGATION** FOR COMPLETE SCOPE OF WORK, RESPONSIBILITIES, PRODUCTS AND EXECUTION OF WORK.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BY CONTACTING ALL OF THE RESPECTIVE UTILITY COMPANIES AND/ OR THE LOCAL "ONE-CALL"/"CALL-BEFORE-YOU-DIG" SYSTEM AND BY EXCAVATING TEST PITS IF NECESSARY.
3. VERIFY ALL SITE CONDITIONS AND DIMENSIONS SHOWN ON THE PLAN PRIOR TO COMMENCEMENT OF WORK. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
4. CONTRACTOR TO VERIFY STATIC AND RESIDUAL PRESSURE AND FLOW (IN GPM) AT THE POINT(S) OF CONNECTION. SYSTEM REQUIREMENTS ARE A MINIMUM 50 GPM AT 70 PSI AT THE POINT OF CONNECTION (DOWNSTREAM OF BACKFLOW PREVENTER).
5. IRRIGATION DESIGNS ARE DIAGRAMMATIC; ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS FOR DESIGN INTENT OR GUIDELINE ONLY AND SHALL BE INSTALLED IN THE FIELD AREAS IN A MANNER TO CONFORM TO THE VARIOUS DETAILS AND APPROVED SHOP DRAWINGS AS DIRECTED.
6. THE FINAL LOCATION AND EXACT POSITIONING OF AUTOMATIC CONTROLLERS AND RAIN SENSOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
7. 120-VOLT ELECTRICAL POWER SERVICE PROVIDED BY OTHERS; REFER TO ELECTRICAL.
8. INSTALL TRACER WIRE (#14 WITH PVC JACKET) ALONG ALL MAINLINE WHERE CONTROL WIRES OR TWO-WIRE PATH IS NOT PRESENT.

IMPORTANT:
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IRRIGATION SCHEDULE

ZONE	ZONE TYPE	LINE INFORMATION	FLOW (GPM)	OPERATING PRESSURE (PSI)	VALVE SIZE
1	TREE DRIP	DRIP: 138 LF (23LF EACH X 6); TREE DIAMETER EMITTER @0.60GPH; (4) RWS-B-C-1402; ROOT ZONE WATERING @ .25 gpm	1.92	30	1"
2	DRIP	DRIP: 1438 LF; 18"O.C., 0.60GPH	9.63	40	1"
3	TREE DRIP	DRIP: 299 LF (23LF EACH X 13); TREE DIAMETER EMITTER @0.60GPH	2.00	30	1"
4	DRIP	DRIP: 1633 LF; 18"O.C., 0.60GPH	11.00	40	1"
5	TREE DRIP	DRIP: 92 LF (23LF EACH X 4); TREE DIAMETER EMITTER @0.60GPH	.68	30	1"
6	TREE DRIP	DRIP: 69 LF (23LF EACH X 2); TREE DIAMETER EMITTER @0.60GPH	.51	30	1"

ALTERNATE NOTES

1. PROVIDE DEDUCT COSTS FOR ALTERNATE AREAS SHOWN ON PLANS.

1 **IRRIGATION PLAN (ALTERNATE)**
Scale: 1" = 10'

SCALE= 1:10

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IRRIGATION PLAN- ALTERNATE

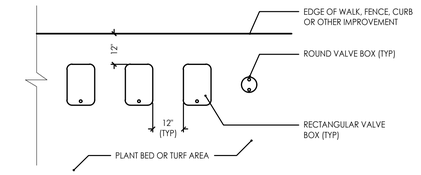
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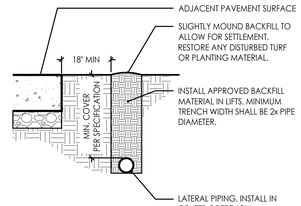
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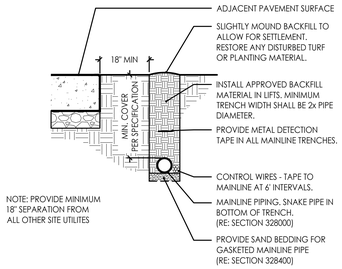
NOTES

1. CENTER BOXES OVER VALVES
2. SET BOXES IN MULCH/GROUNDCOVER AREAS WHERE POSSIBLE.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE
4. AVOID HEAVILY COMPACTING SOILS AROUND BOXES TO PREVENT DAMAGE OR COLLAPSING
5. PROVIDE BLACK BOX COVERS FOR VALVES IN MULCH; GREEN BOX COVERS FOR VALVES IN TURF.

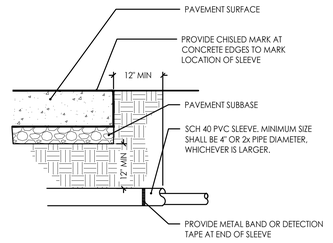
1 VALVE BOX LAYOUT
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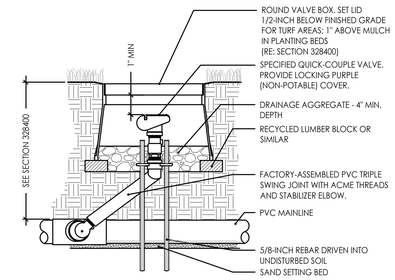
2 PIPE TRENCHING
Scale: N.T.S.



NOTE: PROVIDE MINIMUM 18" SEPARATION FROM ALL OTHER SITE UTILITES



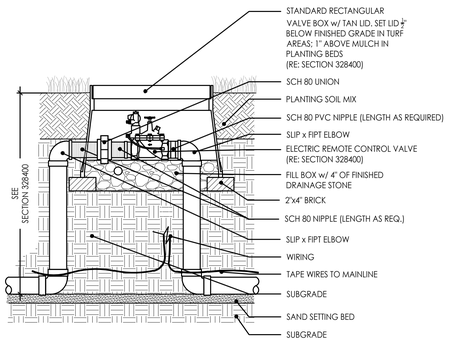
3 PIPE SLEEVING
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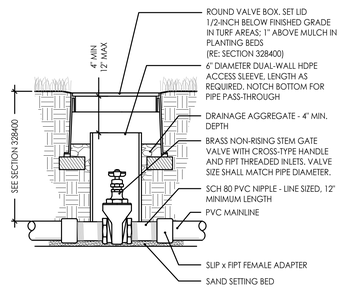
NOTES

1. ACME O-RING SEALED THREADS ARE TO BE FINGER TIGHTENED AND BACKED OFF ONE FULL ROTATION BEFORE INSTALLATION.
2. THE SWING JOINT ARM IS TO BE INSTALLED AT AN ANGLE BETWEEN 30° AND 45° TO THE MAINLINE
3. TEFLON TAPE ALL METAL THREADS.

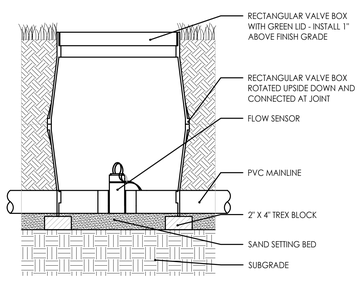
4 QUICK COUPLER VALVE
Scale: N.T.S.



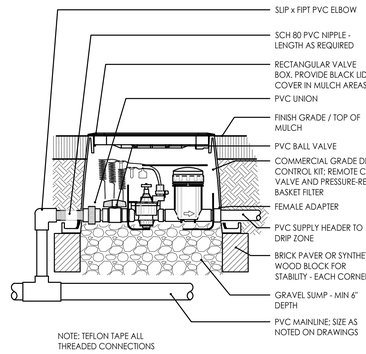
5 MASTER VALVE
Scale: N.T.S.



6 ISOLATION VALVE
Scale: N.T.S.

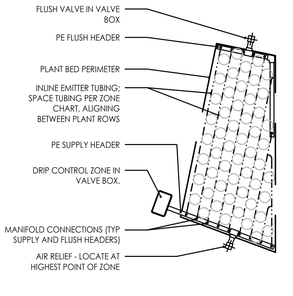


7 FLOW SENSOR
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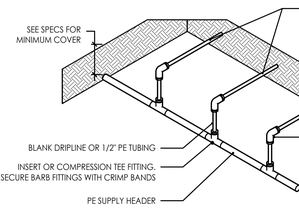


NOTE: TEFLON TAPE ALL THREADED CONNECTIONS

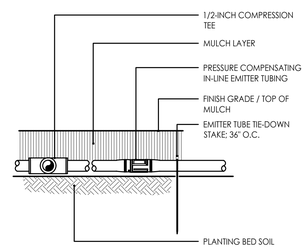
8 DRIP-CONTROL KIT
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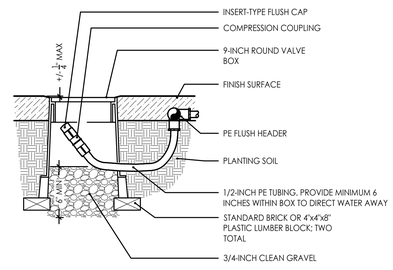
9 DRIP-ZONE LAYOUT
Scale: N.T.S.



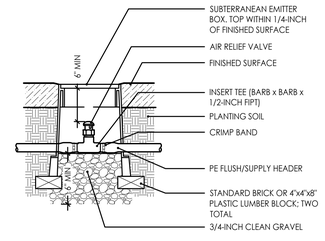
10 DRIP-MANIFOLD
Scale: N.T.S.



11 DRIP-INLINE EMITTER TUBING
Scale: N.T.S.

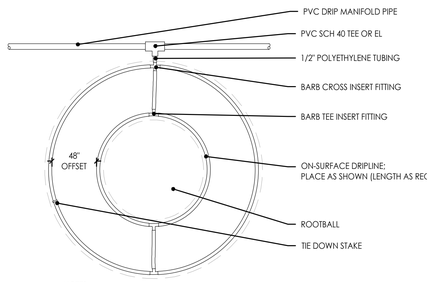


12 DRIP-FLUSH VALVE
Scale: N.T.S.



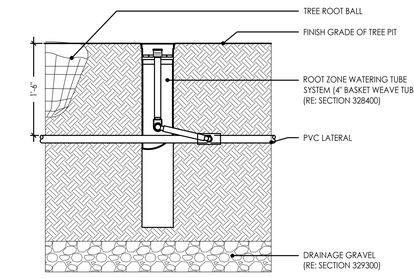
NOTE: TEFLON TAPE ALL THREADED CONNECTIONS

13 DRIP- AIR RELIEF VALVE
Scale: N.T.S.

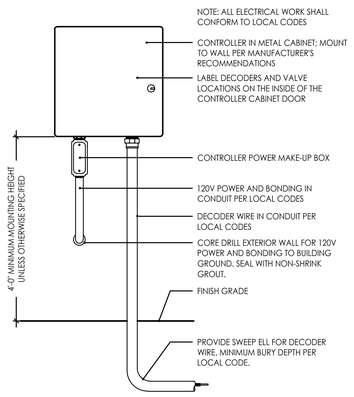


NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

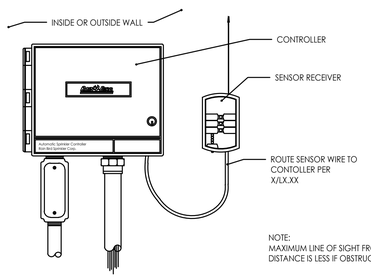
14 TREE DRIP RING
Scale: N.T.S.



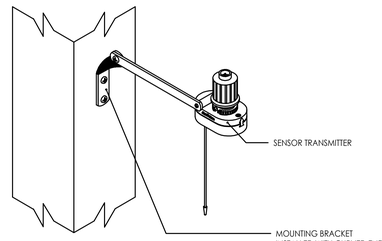
15 DEEP ROOT WATERING TUBE
Scale: N.T.S.



16 CONTROLLER
Scale: N.T.S.



NOTE:
MAXIMUM LINE OF SIGHT FROM RAIN SENSOR TO RECEIVER IS 500 FT.; DISTANCE IS LESS IF OBSTRUCTIONS EXIST.



17 RAIN SENSOR
Scale: N.T.S.

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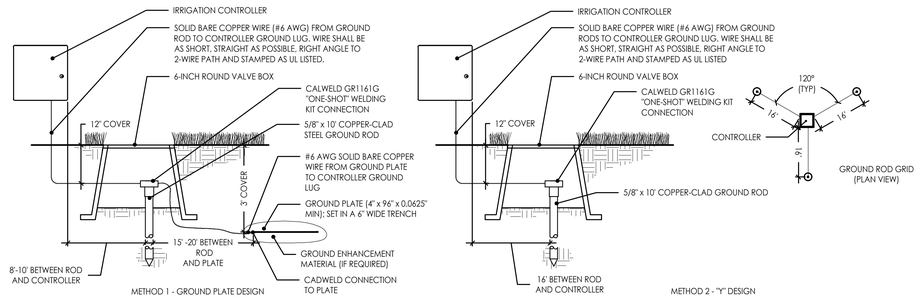
IRRIGATION DETAILS

L720

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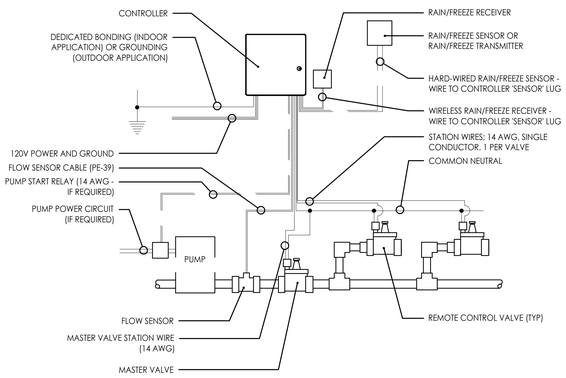
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1 CONTROLLER-GROUNDING

Scale: N.T.S.



2 CONTROLLER-WIRING

Scale: N.T.S.

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0	ISSUED FOR BID	12/22/2025

IRRIGATION DETAILS

L721

LAND3 STUDIO
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LEE'S SUMMIT, MO 64063
816.207.6019

MO LA Corp #2008001860

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G:\Archive\2025\L379-MU BINGHAM COURTYARD IRRIGATION\DRAWINGS\CAD\SHEETS\L720 IRRIGATION DETAILS.dwg 12/10/2025 3:22:20 PM BRIAN ROTH 0.3869:1

GENERAL NOTES - STRUCTURAL

1. General Information

A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.
C. All design and construction work for this project shall conform to the requirements of the following governing design codes:
   1. International Building Code (IBC 2024) and referenced standards as amended by the city of Columbia, MO
   2. Minimum Design Loads for Buildings and Other Structures (ASCE7-22)
   3. Building Code Requirements for Structural Concrete (ACI 318-19)
D. These drawings are for this specific project and no other use is authorized.

2. Concrete

A. All concrete for foundations (grade beams and footings) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
B. All concrete for exterior flatwork and retaining walls shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
C. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
D. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
E. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
F. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
G. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1.
H. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
I. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
J. No aluminum items shall be embedded in any concrete.

3. Reinforcing Steel

A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
B. Clear coverage of concrete over reinforcing steel shall be as follows:
   1. Concrete placed against earth: 3"
   2. Formed concrete against earth: 2"
   3. Slabs: 1"
   4. Beams or Columns: 1-1/2"
   5. Other 2"
   All coverage shall be nominal bar diameter minimum.
C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
J. Allow 1 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

4. Post-installed Anchors

A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.
F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

5. Foundations

A. Spread footings, grade beams, and retaining walls are designed to bear on engineered fill or undisturbed soil capable of safely sustaining 2,000 psf.
B. Retaining walls are designed for an active lateral load of 45 pcf equivalent fluid pressure.
C. Contractor shall provide for dewatering at excavations from either surface water or seepage.
D. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
E. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled.
F. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

6. Shop Drawings and Deferred Submittals

A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
B. Deferred submittals shall be submitted to the architect of record for review who shall forward to the building official for review and approval. Design calculations for deferred sub mittals shall be submitted at the same time as the shop drawings for review. Design calculations shall be prepared and sealed by a Professional Engineer licensed in the state of the project. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official.
C. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
   1. Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
   2. Review and approve each submission.
   3. Stamp each submission as approved.
D. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.
F. Required shop drawings and related material (if any) are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
   1. Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
   2. Reinforcing steel shop drawings including erection drawings and bending details.Bar list will not be reviewed for correct quantities.
   3. Construction and control joint plans and/or elevations.

7. Statement of Structural Special Inspections

A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
C. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.
E. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
   1. Concrete Construction per Section 1705.3 and Table 1705.3
      a. Reinforcing Steel Placement
      b. Cast in Place Anchors
      c. Post Installed Anchors
      d. Design Mix Verification
      e. Concrete Sampling and Testing
      f. Concrete Placement
      g. Concrete Curing
      h. Formwork Shape, Location and Dimensions
   2. Verification of Soils per Table 1705.6

8. Copyright and Disclaimer

A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
B. I, Wayne E. Davis, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.

STRUCTURAL ABBREVIATIONS

@	AT	GA	GAGE	RAD	RADIUS
&	AND	GALV	GALVANIZE(D)	RD-#	ROOF DECK TYPE
Ø	ROUND, DIAMETER	GEN	GENERAL	REF	REFERENCE
ADTL	ADDITIONAL	GR	GRADE	REINF	REINFORCEMENT
AFF	ABOVE FINISHED FLOOR	HORIZ	HORIZONTAL	REQD	REQUIRED
ALT	ALTERNATE	HSS	HOLLOW STRUCTURAL SECTION	REV	REVISION
ARCH	ARCHITECTURAL	IF	INSIDE FACE	RLL	ROOF LIVE LOAD
BLDG	BUILDING	INFO	INFORMATION	RTU	ROOF TOP UNIT
B/	BOTTOM OF	INT	INTERIOR	SC	SLIP CRITICAL
BM	BEAM	JST	JOIST	SCHED	SCHEDULE(D)
BOTT	BOTTOM	JT	JOINT	SECT	SECTION
BRG	BEARING	K	KIPS (1000 LBS)	SHT	SHEET
C	CAMBER	KSF	KIPS PER SQUARE FOOT	SIM	SIMILAR
CD-#	CONCRETE DECK TYPE	KSI	KIPS PER SQUARE INCH	SJ	SAW JOINT
CJ	CONSTRUCTION/CONTROL JOINT	LBS, #	POUNDS	SL	SNOW LOAD
CJP	COMPLETE JOINT PENETRATION	Ld	DEVELOPMENT LENGTH	SOG	SLAB-ON-GRADE
CL	CENTERLINE	LL	LIVE LOAD	SOG-#	SLAB-ON-GRADE TYPE
CMU	CONCRETE MASONRY UNIT	LLH	LONG LEG HORIZONTAL	SPCG	SPACING
COL	COLUMN	LLV	LONG LEG VERTICAL	SPEC	SPECIFICATION
CONC	CONCRETE	LONG	LONGITUDINAL	SPRT	SUPPORT
CONN	CONNECTION	LSLT	LONG-SLOTTED HOLE TRANSVERSE	SQ	SQUARE
CONT	CONTINUOUS	LTWT	LIGHTWEIGHT	SS	STAINLESS STEEL
COORD	COORDINATE	M	MOMENT FORCE	SSLT	SHORT-SLOTTED HOLE TRANSVERSE
COV, CVR	COVER	MAX	MAXIMUM	STD	STANDARD
DBL	DOUBLE	MECH	MECHANICAL	STIFF	STIFFENER
DET	DETAIL	MFGR	MANUFACTURER	STIR	STIRRUP
DIA	DIAMETER	MIN	MINIMUM	STL	STEEL
DIM	DIMENSION	MISC	MISCELLANEOUS	STRUCT	STRUCTURE, STRUCTURAL
DL	DEAD LOAD	MSRY	MASONRY	T/	TOP OF
DWG	DRAWING	MTL	METAL	THRU	THROUGH
EA	EACH	NF	NEAR FACE	TOS	TOP OF STEEL, TOP OF SLAB
EF	EACH FACE	NS	NEAR SIDE	TRANS	TRANSVERSE
EJ	EXPANSION JOINT	NTS	NOT TO SCALE	TYP	TYPICAL
EL, ELEV	ELEVATION	NW	NORMAL WEIGHT	UNO	UNLESS NOTED OTHERWISE
EMBED	EMBEDMENT, EMBEDDED	OC	ON CENTER	V	SHEAR FORCE
ENGR	ENGINEER	OF	OUTSIDE FACE	VERT	VERTICAL
EOD	EDGE OF DECK	OPNG	OPENING	W/	WITH
EOR	ENGINEER OF RECORD	OPP	OPPOSITE	W/0	WITHOUT
EOS	EDGE OF SLAB	OVS	OVERSIZED HOLE	WF	WIDE FLANGE
EQ	EQUAL	P	AXIAL FORCE	WL	WIND LOAD
EQUIP	EQUIPMENT	PAF	POWDER ACTUATED FASTENER	WP	WORK POINT
EW	EACH WAY	PC	PRECAST	WWF	WELDED WIRE FABRIC
EXP	EXPANSION	PCF	POUNDS PER CUBIC FOOT		
EXT	EXTERIOR	PEMB	PRE-ENGINEERED METAL BUILDING		
EXTG, EXIST	EXISTING	PERP	PERPENDICULAR		
FD-#	FLOOR DECK TYPE	PL	PLATE		
FDN	FOUNDATION	PLF	POUNDS PER LINEAR FOOT		
FF	FAR FACE	PJP	PARTIAL JOINT PENETRATION		
FIN	FINISH	PSF	POUNDS PER SQUARE FOOT		
FLR	FLOOR	PSI	POUNDS PER SQUARE INCH		
FS	FAR SIDE	QTY	QUANTITY		
FTG	FOOTING				
FV	FIELD VERIFY				

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FOR THE CURATORS OF
THE UNIVERSITY OF MISSOURI

BINGHAM HALL - UPDATE COURTYARD AREA

ISSUED FOR BID

902 S COLLEGE AVE
COLUMBIA, MO 65201

DATE:	12/22/2025
PROJ. NO.:	CP231011
DESIGNED BY:	WED
DRAWN BY:	JLF/EAO
CHECKED BY:	WED
APPROVED BY:	WED

SEAL:



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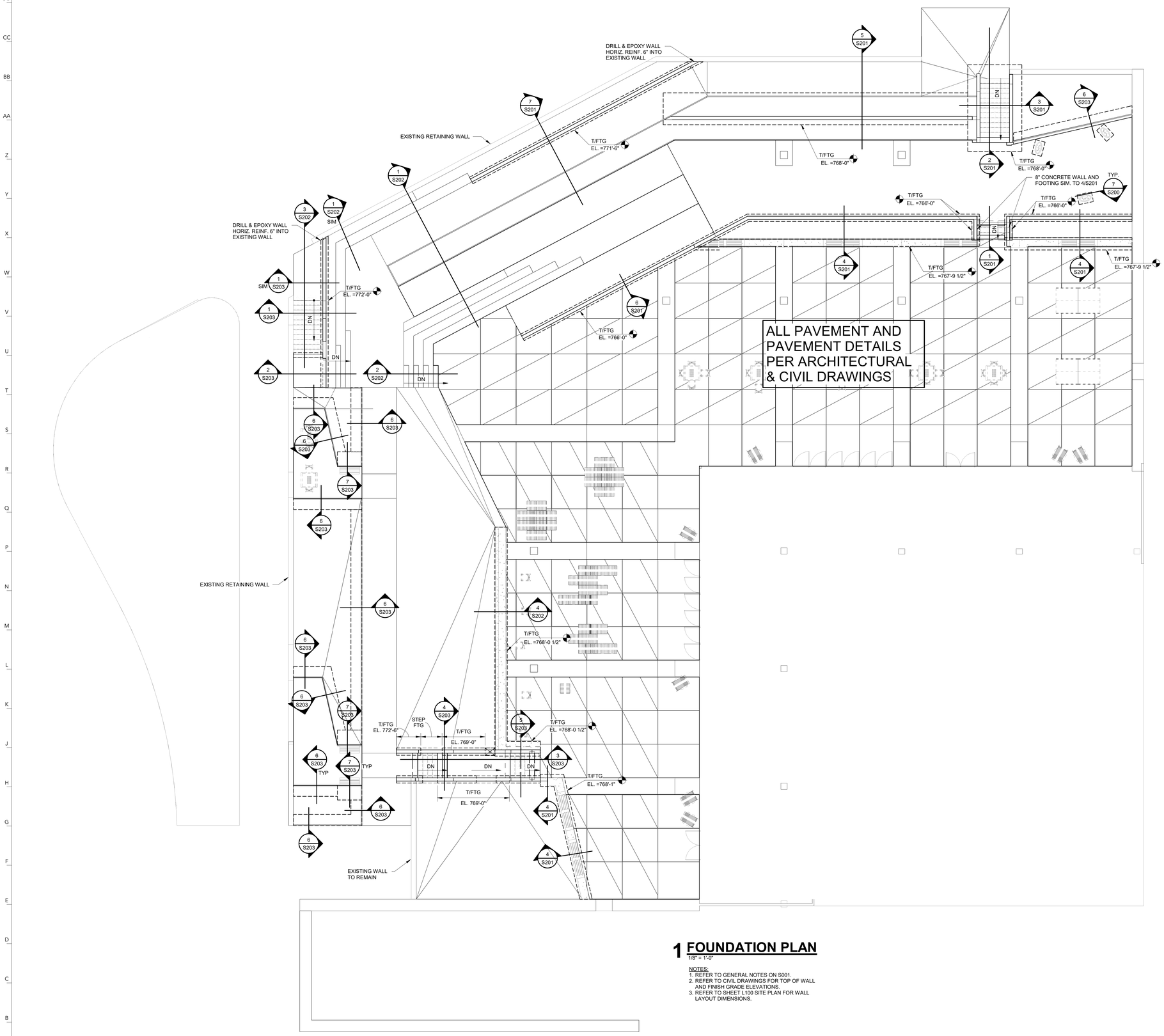
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GENERAL NOTES

S001

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1 FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO GENERAL NOTES ON S001.
2. REFER TO CIVIL DRAWINGS FOR TOP OF WALL AND FINISH GRADE ELEVATIONS.
3. REFER TO SHEET L100 SITE PLAN FOR WALL LAYOUT DIMENSIONS.

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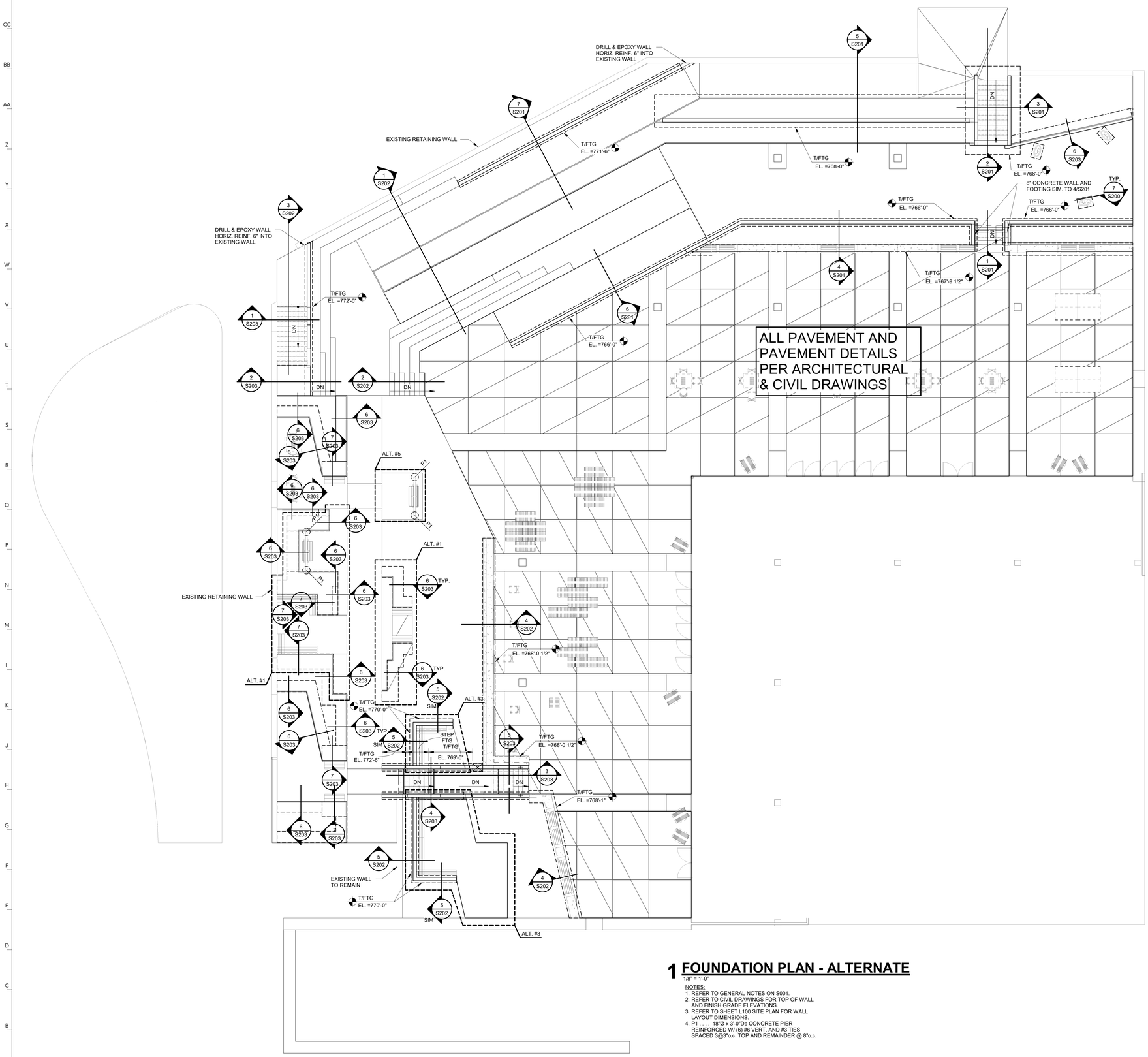
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FOUNDATION PLAN

S100

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1 FOUNDATION PLAN - ALTERNATE

1/8" = 1'-0"

NOTES:
1. REFER TO GENERAL NOTES ON S001.
2. REFER TO CIVIL DRAWINGS FOR TOP OF WALL AND FINISH GRADE ELEVATIONS.
3. REFER TO SHEET L100 SITE PLAN FOR WALL LAYOUT DIMENSIONS.
4. P1 . . . . . 18"Ø x 3'-0"Dp CONCRETE PIER REINFORCED W/ (6) #6 VERT. AND #3 TIES SPACED 3@3"o.c. TOP AND REMAINDER @ 8"o.c.

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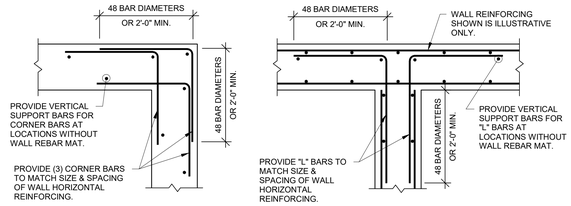
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FOUNDATION PLAN - ALTERNATE

S101

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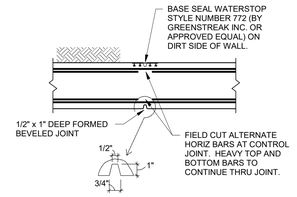


TYPICAL CORNER BARS AT CONCRETE WALLS & FOUNDATIONS

TYPICAL T-INTERSECTION REINFORCING AT CONCRETE WALLS & FOUNDATIONS

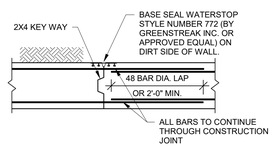
1 TYPICAL INTERSECTING CONCRETE WALL REINFORCING

3/4" = 1'-0"



VERTICAL WALL CONTROL JOINT

MAXIMUM SPACING = 25'-0"
(COORDINATE LOCATIONS WITH ARCHITECT/ALIGN WITH MASONRY CONTROL/EXPANSION JOINTS ABOVE)

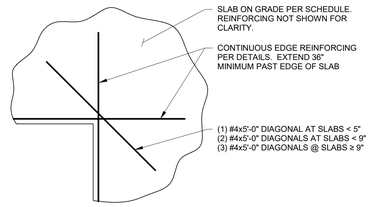


VERTICAL WALL CONSTRUCTION JOINT

MAXIMUM SPACING = 100'-0"

2 VERTICAL WALL CONTROL JOINT

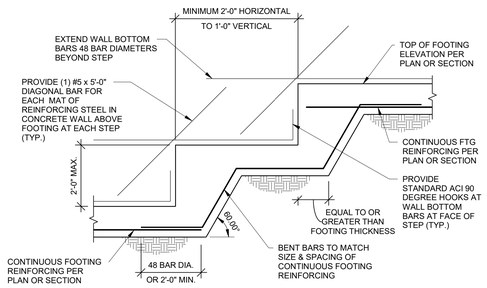
3/4" = 1'-0"



TYPICAL SLAB ON GRADE RE-ENTRANT CORNER BARS

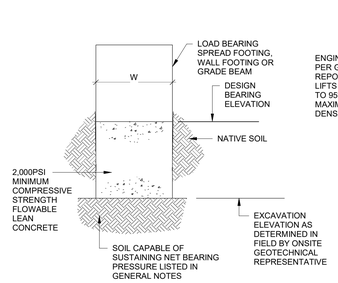
3 DETAIL

1/2" = 1'-0"

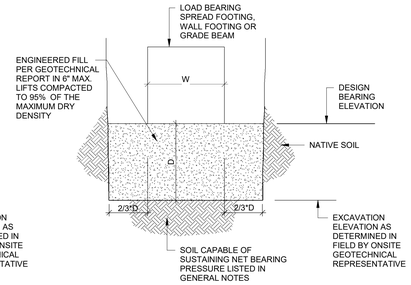


4 TYPICAL FOOTING STEP

1/2" = 1'-0"



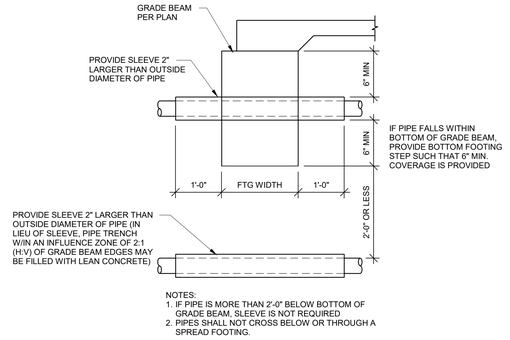
LEAN CONCRETE BACKFILL



ENGINEERED FILL BACKFILL

5 OVEREXCAVATION DETAIL

3/4" = 1'-0"

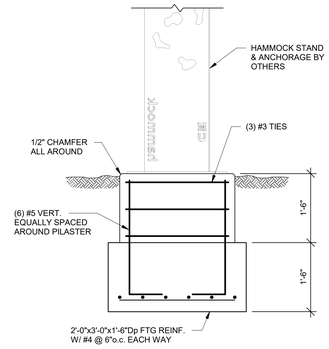


NOTES:
1. IF PIPE IS MORE THAN 2'-0" BELOW BOTTOM OF GRADE BEAM, SLEEVE IS NOT REQUIRED
2. PIPES SHALL NOT CROSS BELOW OR THROUGH A SPREAD FOOTING.

TYPICAL GRADE BEAM SLEEVE

6 SECTION

3/4" = 1'-0"



7 SECTION

3/4" = 1'-0"

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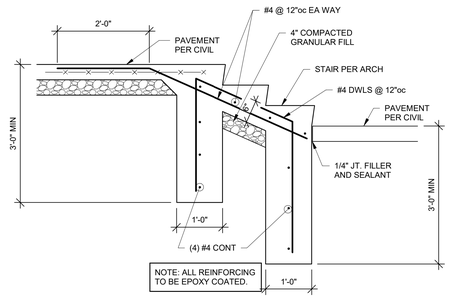
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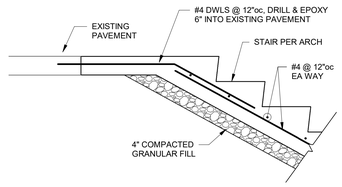
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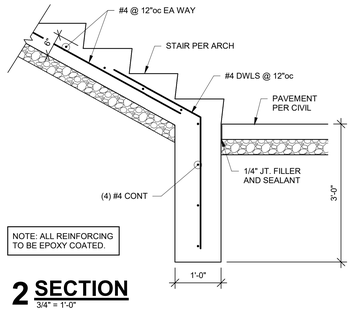
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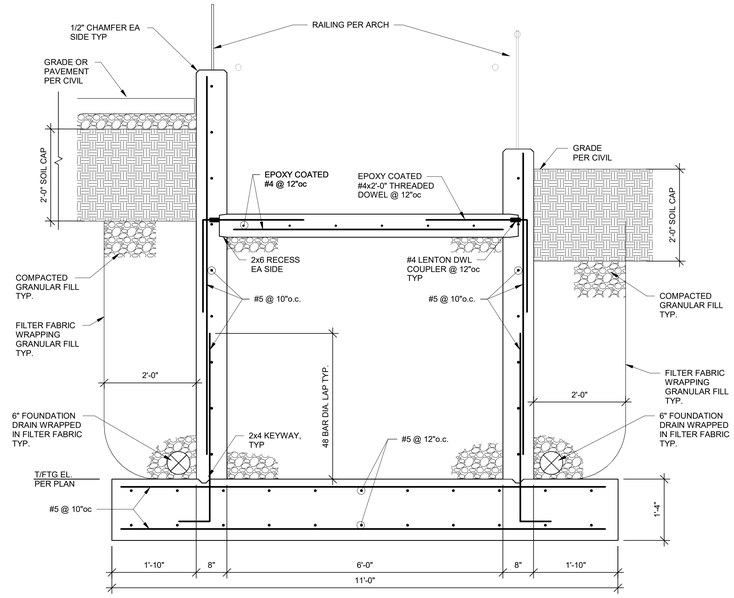


1 SECTION
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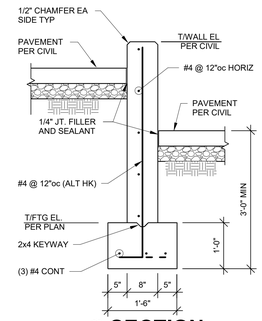
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3/4" = 1'-0"



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

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

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

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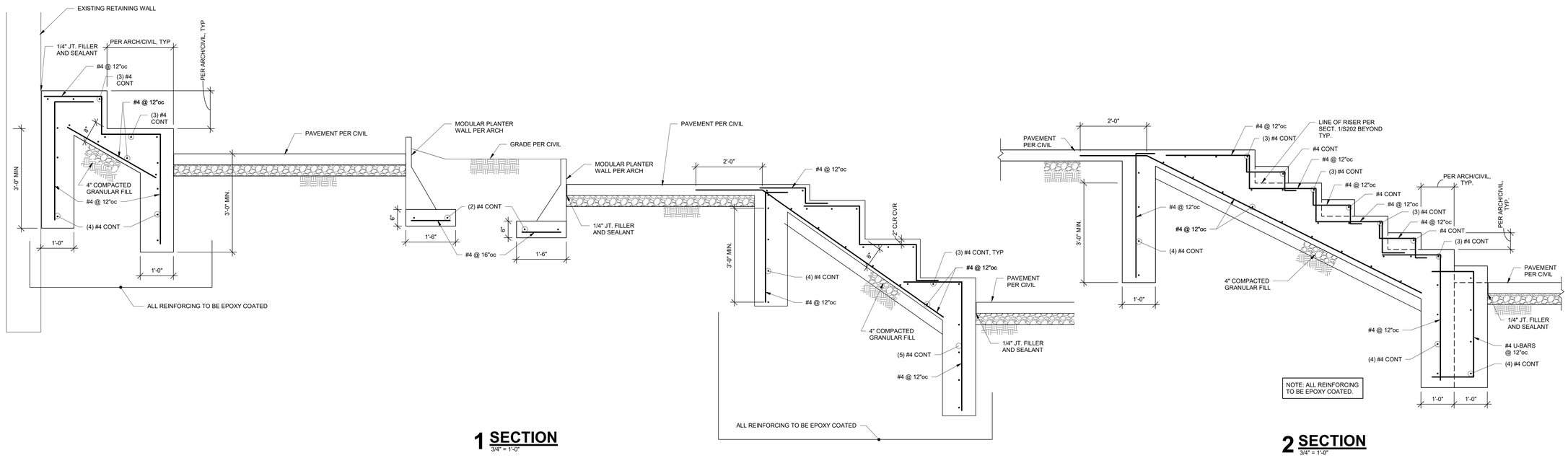
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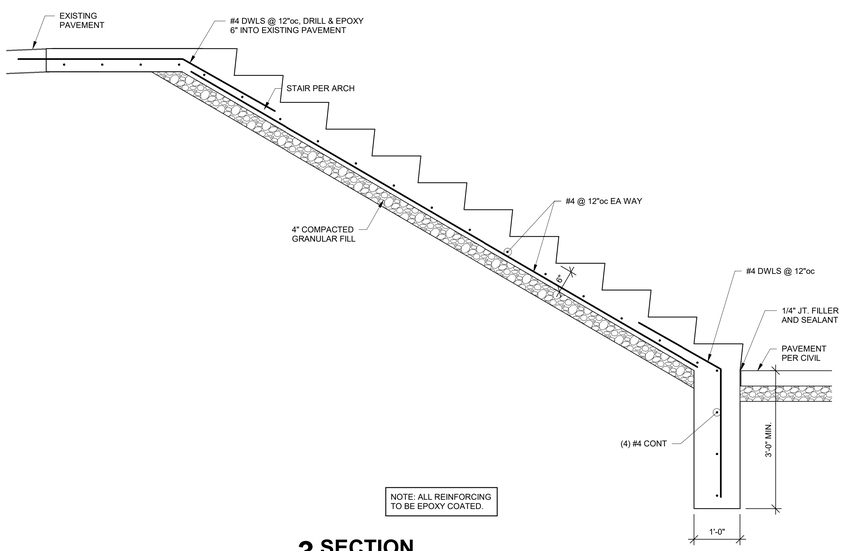
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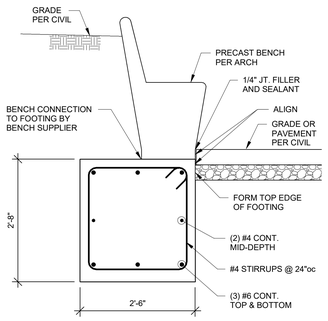


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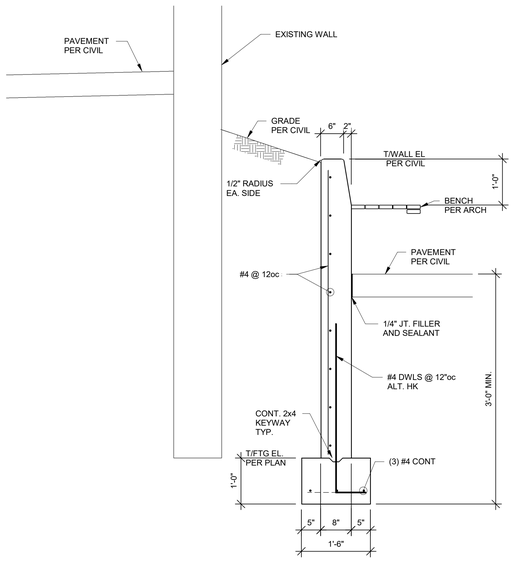
2 SECTION
3/4" = 1'-0"



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



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



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

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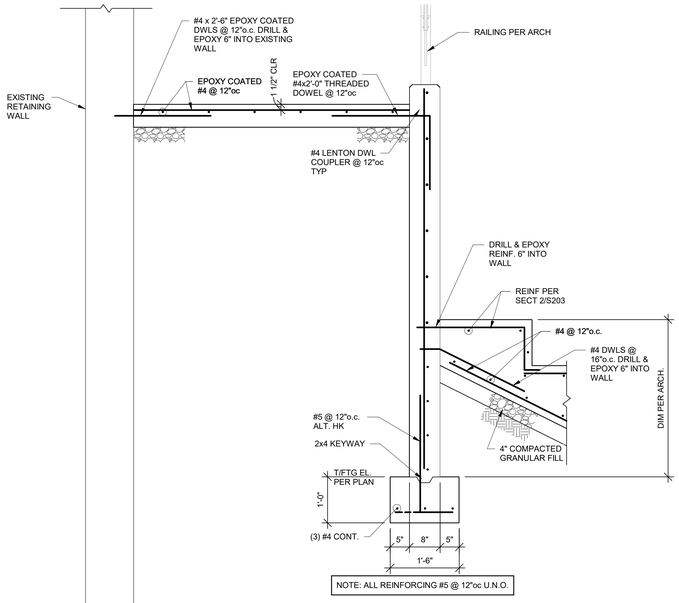
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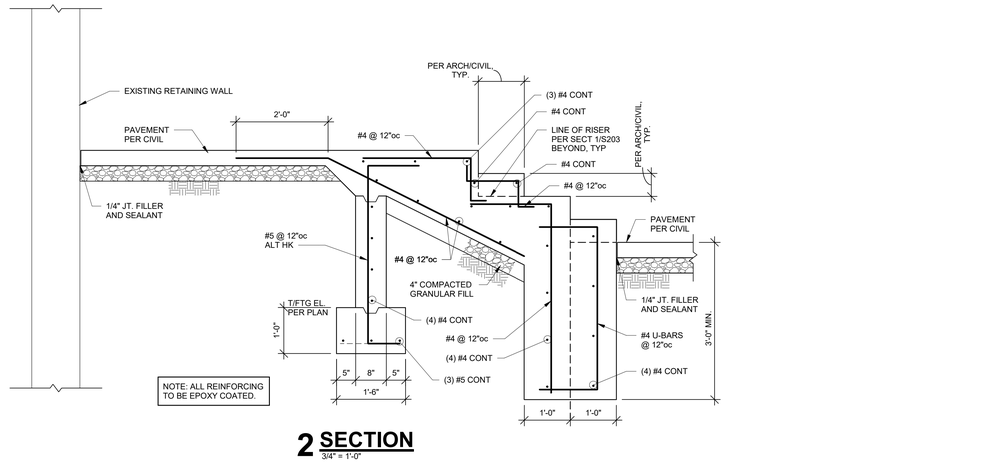
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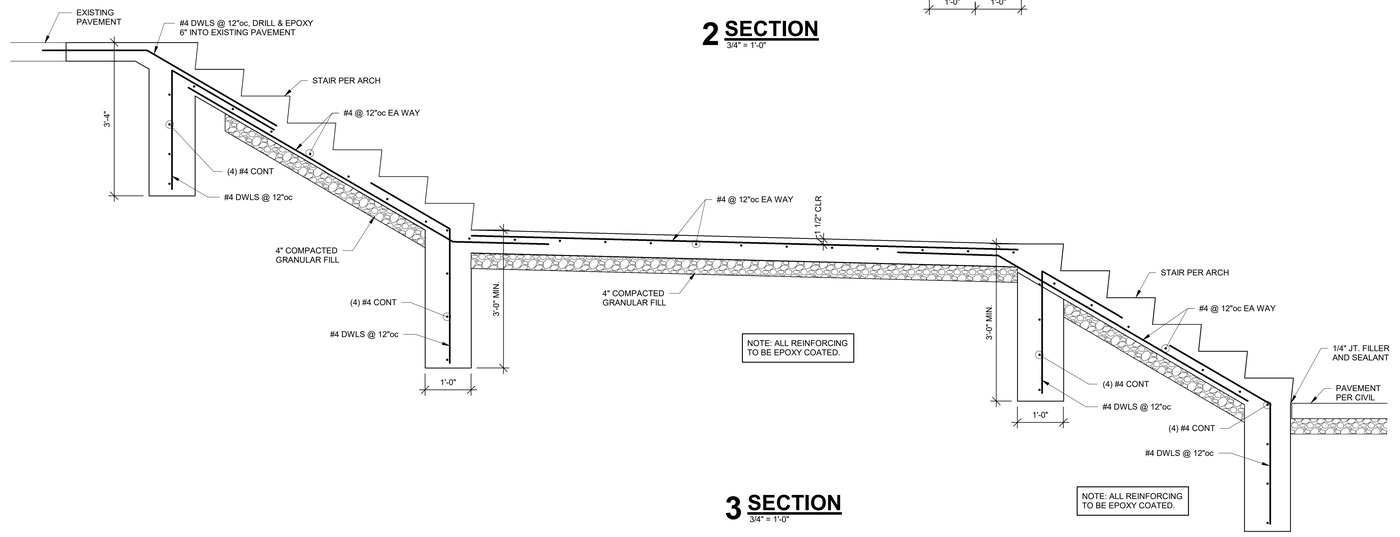
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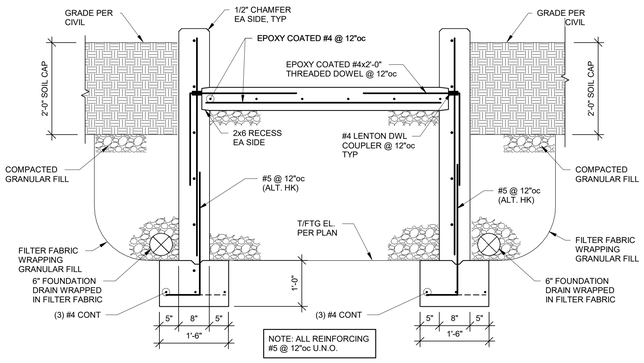
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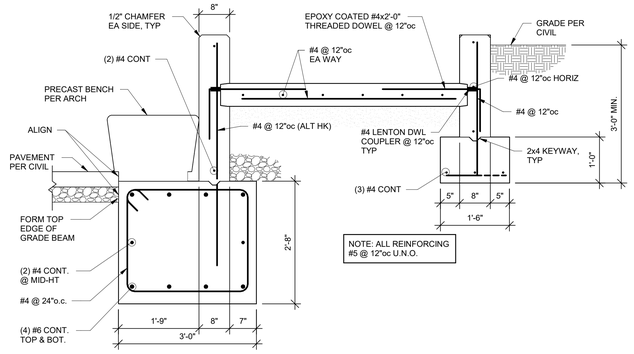
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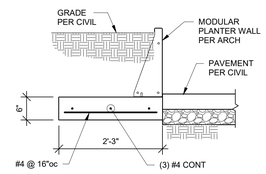
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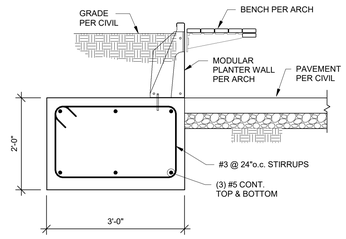
4 SECTION
3/4" = 1'-0"



5 SECTION
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6 SECTION
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7 SECTION
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KEYED NOTES

1. FOR LIGHTING BASE BID: REMOVE HID LAMP AND DRIVER OF EXISTING WALL MOUNTED FIXTURES AND PREPARE FOR REPLACEMENT WITH NEW LED DRIVERS.

   FOR LIGHTING ALTERNATE #4: DEMOLISH LARGE WALL SCONCE FIXTURES AND ALL ASSOCIATED WIRING TO THE NEAREST JUNCTION BOX. PATCH SURFACES TO CONCEAL CONDUIT AND MOUNTING HARDWARE AS REQUIRED.
2. DEMOLISH 120V RECEPTACLES AND DAMAGED COVERPLATES IN THE FACE OF THE BUILDING AND PREPARE FOR REPLACEMENT WITH NEW GFCI DEVICES AND WEATHERPROOF COVERS.
3. DEMOLISH POLE LIGHT FIXTURE AND ASSOCIATED WIRING.
4. DEMOLISH LIGHT BOLLARD AND ASSOCIATED WIRING.
5. DEMOLISH EXTERIOR RECESSED FIXTURE AND ASSOCIATED WIRING.
6. DEMOLISH MECHANICAL TIMECLOCK AND RELAYS FOR EXISTING OUTDOOR LIGHTING CONTROLS AND ASSOCIATED WIRING. PREPARE FOR INSTALLATION OF NEW DIGITAL LIGHTING CONTROL RELAY PANEL.

1 E100 **ELECTRICAL DEMO PLAN**
1/8" = 1'-0"

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CHECKED BY:	SLF
APPROVED BY:	RAV

SEAL:

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NUMBER E-2011015810
REGISTERED PROFESSIONAL ENGINEER

RUSSELL VINSON - ENGINEER
MO#: E-2011015810

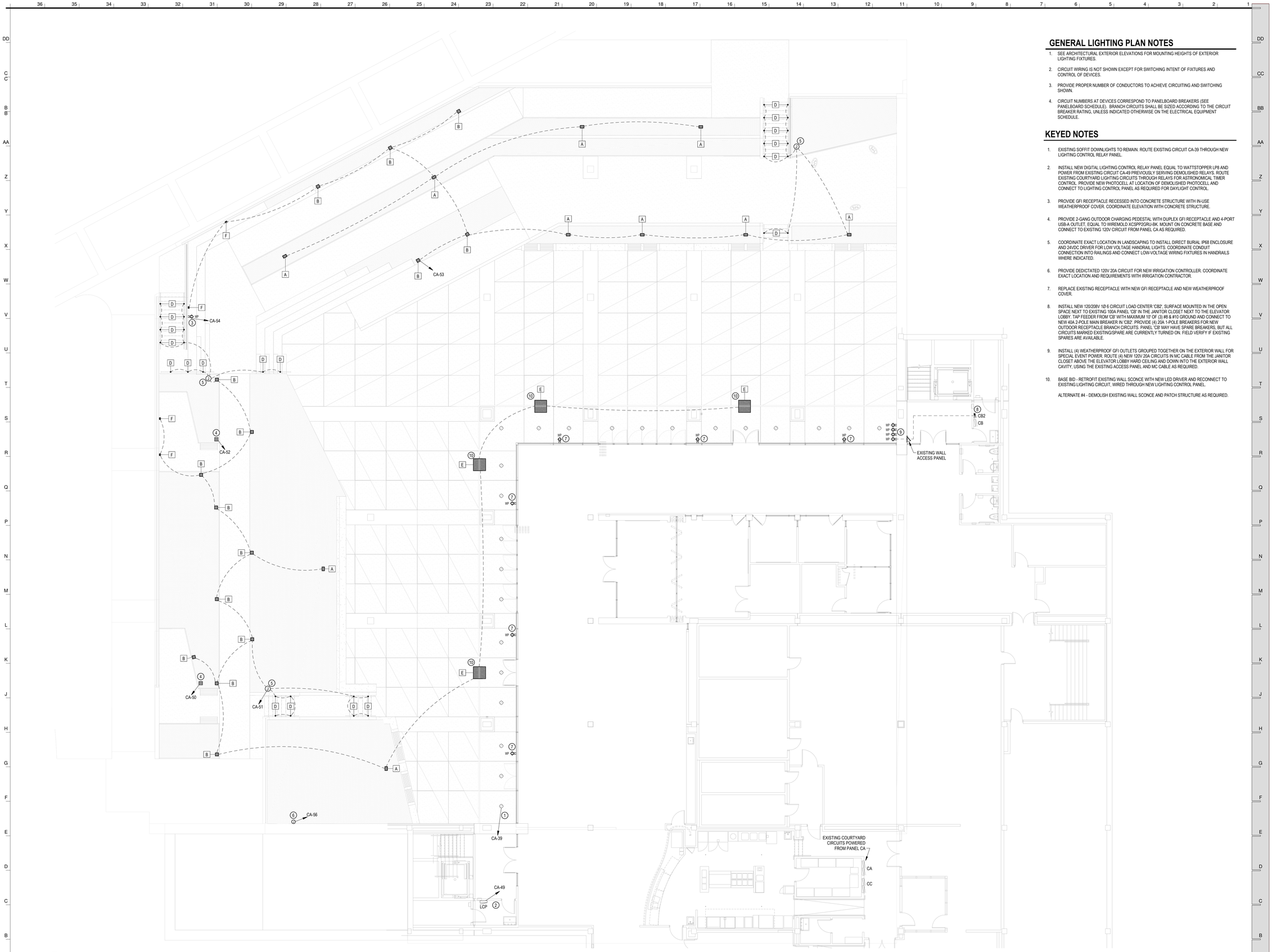
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ELECTRICAL DEMO PLAN

E100

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1 E101 **SITE ELECTRICAL PLAN - BASE BID**
1/8" = 1'-0"

GENERAL LIGHTING PLAN NOTES

1. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
2. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
3. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
4. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

KEYED NOTES

1. EXISTING SOFFIT DOWNLIGHTS TO REMAIN. ROUTE EXISTING CIRCUIT CA-39 THROUGH NEW LIGHTING CONTROL RELAY PANEL.
2. INSTALL NEW DIGITAL LIGHTING CONTROL RELAY PANEL EQUAL TO WATTSTOPPER LP8 AND POWER FROM EXISTING CIRCUIT CA-49 PREVIOUSLY SERVING DEMOLISHED RELAYS. ROUTE EXISTING COURTYARD LIGHTING CIRCUITS THROUGH RELAYS FOR ASTRONOMICAL TIMER CONTROL. PROVIDE NEW PHOTOCELL AT LOCATION OF DEMOLISHED PHOTOCELL AND CONNECT TO LIGHTING CONTROL PANEL AS REQUIRED FOR DAYLIGHT CONTROL.
3. PROVIDE GFI RECEPTACLE RECESSED INTO CONCRETE STRUCTURE WITH IN-USE WEATHERPROOF COVER. COORDINATE ELEVATION WITH CONCRETE STRUCTURE.
4. PROVIDE 2-GANG OUTDOOR CHARGING PEDESTAL WITH DUPLEX GFI RECEPTACLE AND 4-PORT USB-A OUTLET, EQUAL TO WIREMOLD XCSPP2GRU-BK. MOUNT ON CONCRETE BASE AND CONNECT TO EXISTING 120V CIRCUIT FROM PANEL CA AS REQUIRED.
5. COORDINATE EXACT LOCATION IN LANDSCAPING TO INSTALL DIRECT BURIAL IP68 ENCLOSURE AND 24VDC DRIVER FOR LOW VOLTAGE HANDRAIL LIGHTS. COORDINATE CONDUIT CONNECTION INTO RAILINGS AND CONNECT LOW-VOLTAGE WIRING FIXTURES IN HANDRAILS WHERE INDICATED.
6. PROVIDE DEDICTATED 120V 20A CIRCUIT FOR NEW IRRIGATION CONTROLLER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH IRRIGATION CONTRACTOR.
7. REPLACE EXISTING RECEPTACLE WITH NEW GFI RECEPTACLE AND NEW WEATHERPROOF COVER.
8. INSTALL NEW 120/208V 10 6 CIRCUIT LOAD CENTER 'CB2'. SURFACE MOUNTED IN THE OPEN SPACE NEXT TO EXISTING 100A PANEL 'CB' IN THE JANITOR CLOSET NEXT TO THE ELEVATOR LOBBY. TAP FEEDER FROM 'CB' WITH MAXIMUM 10' OF (3) #8 & #10 GROUND AND CONNECT TO NEW 40A 2-POLE MAIN BREAKER IN 'CB2'. PROVIDE (4) 20A 1-POLE BREAKERS FOR NEW OUTDOOR RECEPTACLE BRANCH CIRCUITS. PANEL 'CB' MAY HAVE SPARE BREAKERS, BUT ALL CIRCUITS MARKED EXISTING/SPARE ARE CURRENTLY TURNED ON. FIELD VERIFY IF EXISTING SPARES ARE AVAILABLE.
9. INSTALL (4) WEATHERPROOF GFI OUTLETS GROUPED TOGETHER ON THE EXTERIOR WALL FOR SPECIAL EVENT POWER. ROUTE (4) NEW 120V 20A CIRCUITS IN MC CABLE FROM THE JANITOR CLOSET ABOVE THE ELEVATOR LOBBY HARD CEILING AND DOWN INTO THE EXTERIOR WALL CAVITY, USING THE EXISTING ACCESS PANEL AND MC CABLE AS REQUIRED.
10. BASE BID - RETROFIT EXISTING WALL SCONCE WITH NEW LED DRIVER AND RECONNECT TO EXISTING LIGHTING CIRCUIT, WIRED THROUGH NEW LIGHTING CONTROL PANEL.

    ALTERNATE #4 - DEMOLISH EXISTING WALL SCONCE AND PATCH STRUCTURE AS REQUIRED.

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NUMBER E-2011015810
REGISTERED PROFESSIONAL ENGINEER

RUSSELL VINSON - ENGINEER
MO#: E-2011015810

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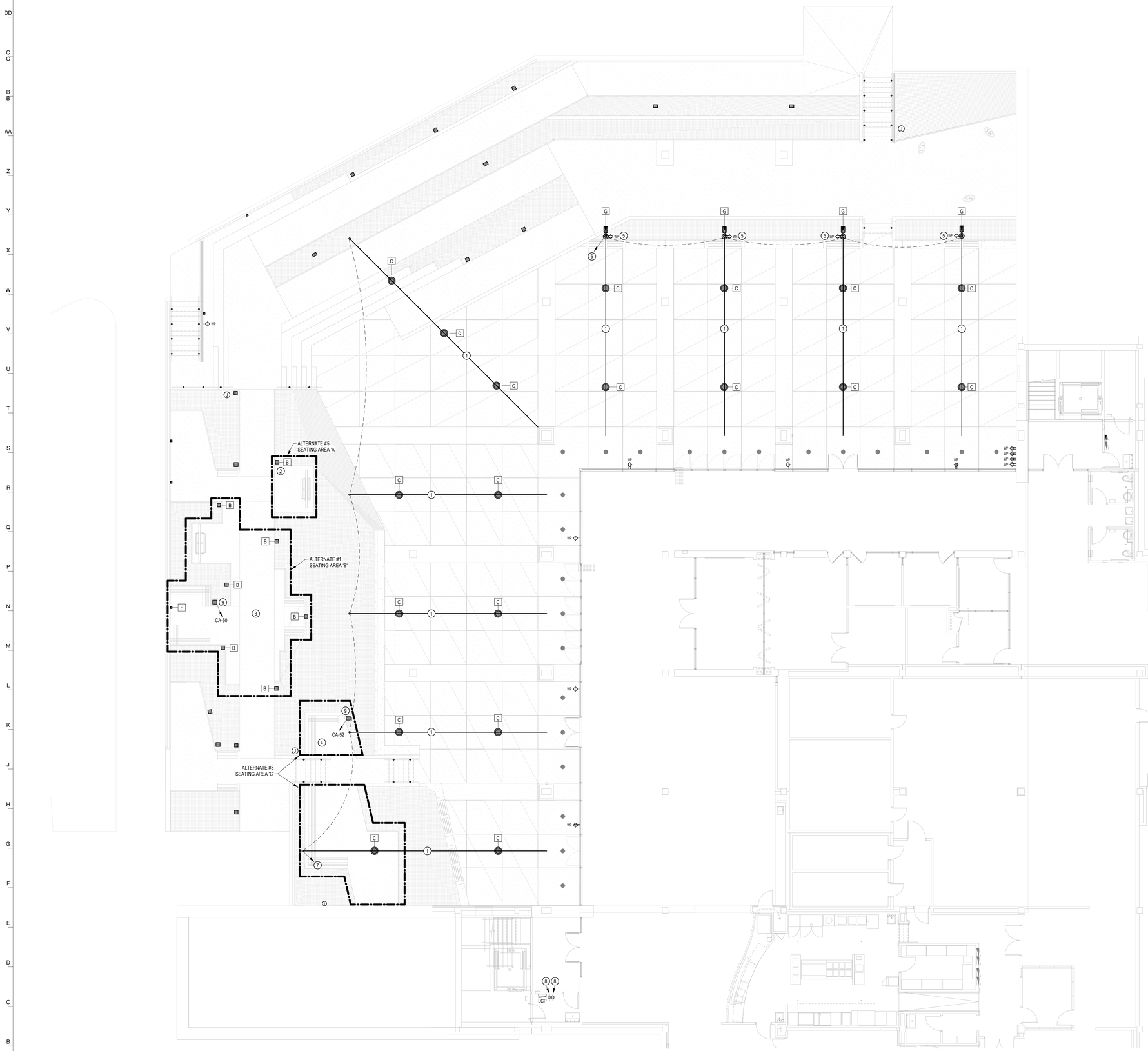
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SITE ELECTRICAL PLAN - BASE BID

E101

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1 E102 **SITE ELECTRICAL PLAN - ALTERNATE**
1/8" = 1'-0"

GENERAL LIGHTING PLAN NOTES

1. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
2. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
3. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
4. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

KEYED NOTES

1. ALTERNATE #4 - PROVIDE CATENARY LIGHTING FIXTURES, CABLES, POLES AND SUPPORTS ATTACHED TO THE EXISTING STRUCTURE AS SHOWN.
2. ALTERNATE #5 - ADJUST LOCATION OF BOLLARD AS SHOWN FOR ALTERNATE #5 SEATING AREA A.
3. ALTERNATE #1 - PROVIDE ADDITIONAL FIXTURES AND CHARGING PEDESTAL AS SHOWN FOR ALTERNATE #1 SEATING AREA B.
4. ALTERNATE #3 - PROVIDE ADDITIONAL CHARGING PEDESTAL AS SHOWN FOR ALTERNATE #3 SEATING AREA C.
5. ALTERNATE #4 - PROVIDE GFI RECEPTACLE MOUNTED ON LIGHTING POLE WITH IN-USE WEATHERPROOF COVER. CONNECT TO EXISTING OUTDOOR RECEPTACLE CIRCUITS AS REQUIRED.
6. ALTERNATE #4 - ROUTE CIRCUIT FOR CATENARY LIGHTS & POLE FIXTURES ON NORTH SIDE OF BUILDING THRU A SEPARATE RELAY IN LIGHTING CONTROL PANEL. PROVIDE 0-10V DIMMING WIRING TO ALL CONNECTED FIXTURES FROM DIMMING RELAY.
7. ALTERNATE #4 - ROUTE CIRCUIT FOR CATENARY LIGHT FIXTURES ON WEST SIDE OF BUILDING THRU A SEPARATE RELAY IN LIGHTING CONTROL PANEL. PROVIDE 0-10V DIMMING WIRING TO ALL CONNECTED FIXTURES FROM DIMMING RELAY.
8. ALTERNATE #4 - PROVIDE (2) SEPARATE DIMMING CONTROLLERS AND ASSOCIATED WIRING FOR CATENARY LIGHTING AND POLES NORTH AND WEST OF THE BUILDING. FOR EACH ZONE, PROVIDE ONE 0-10V DIMMING CONTROLLER EQUAL TO WATTSTOPPER LMRC-111, ONE DIGITAL INPUT INTERFACE EQUAL TO WATTSTOPPER LMIN-104, AND ONE 5-BUTTON DIMMING SCENE SWITCH EQUAL TO WATTSTOPPER LMSW-241. CONNECT DIMMING RELAYS TO LIGHTING CONTROL PANEL WITH DIGITAL INPUT INTERFACE FOR TIMECLOCK CONTROL. INSTALL 5-BUTTON DIMMING SWITCHES ADJACENT TO THE LCP AND LABEL 'NORTH' AND 'WEST'.
9. FOR ALTERNATE SEATING AREA, PROVIDE 2-GANG OUTDOOR CHARGING PEDESTAL WITH DUPLEX GFI RECEPTACLE AND 4-PORT USB-A OUTLET, EQUAL TO WIREMOLD XCSPP2GRU-BK. MOUNT ON CONCRETE BASE AND CONNECT TO EXISTING 120V CIRCUIT FROM PANEL CA AS REQUIRED.

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FOR THE CURATORS OF
THE UNIVERSITY OF MISSOURI

BINGHAM HALL - UPDATE COURTYARD AREA

ISSUED FOR BID

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COLUMBIA, MO 65201

DATE:	12/22/2025
PROJ. NO.:	CP231011
DESIGNED BY:	RAV
DRAWN BY:	RAV
CHECKED BY:	SLF
APPROVED BY:	RAV

SEAL:

RUSSELL VINSON
NUMBER E-2011015810
REGISTERED PROFESSIONAL ENGINEER

RUSSELL VINSON - ENGINEER
MO#: E-2011015810

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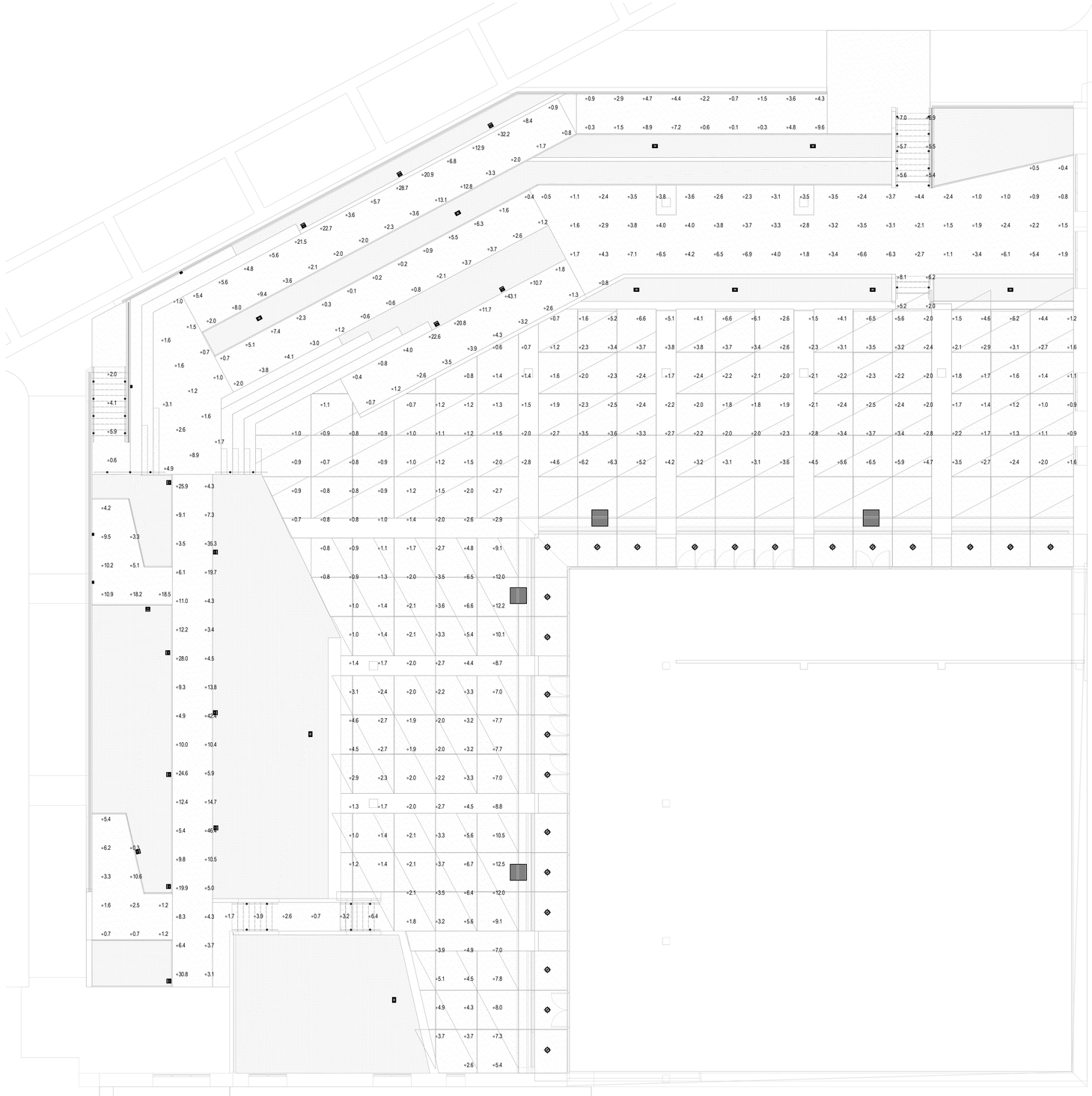
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SITE ELECTRICAL PLAN - ALTERNATES

E102

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PHOTOMETRIC PLAN - BASE BID
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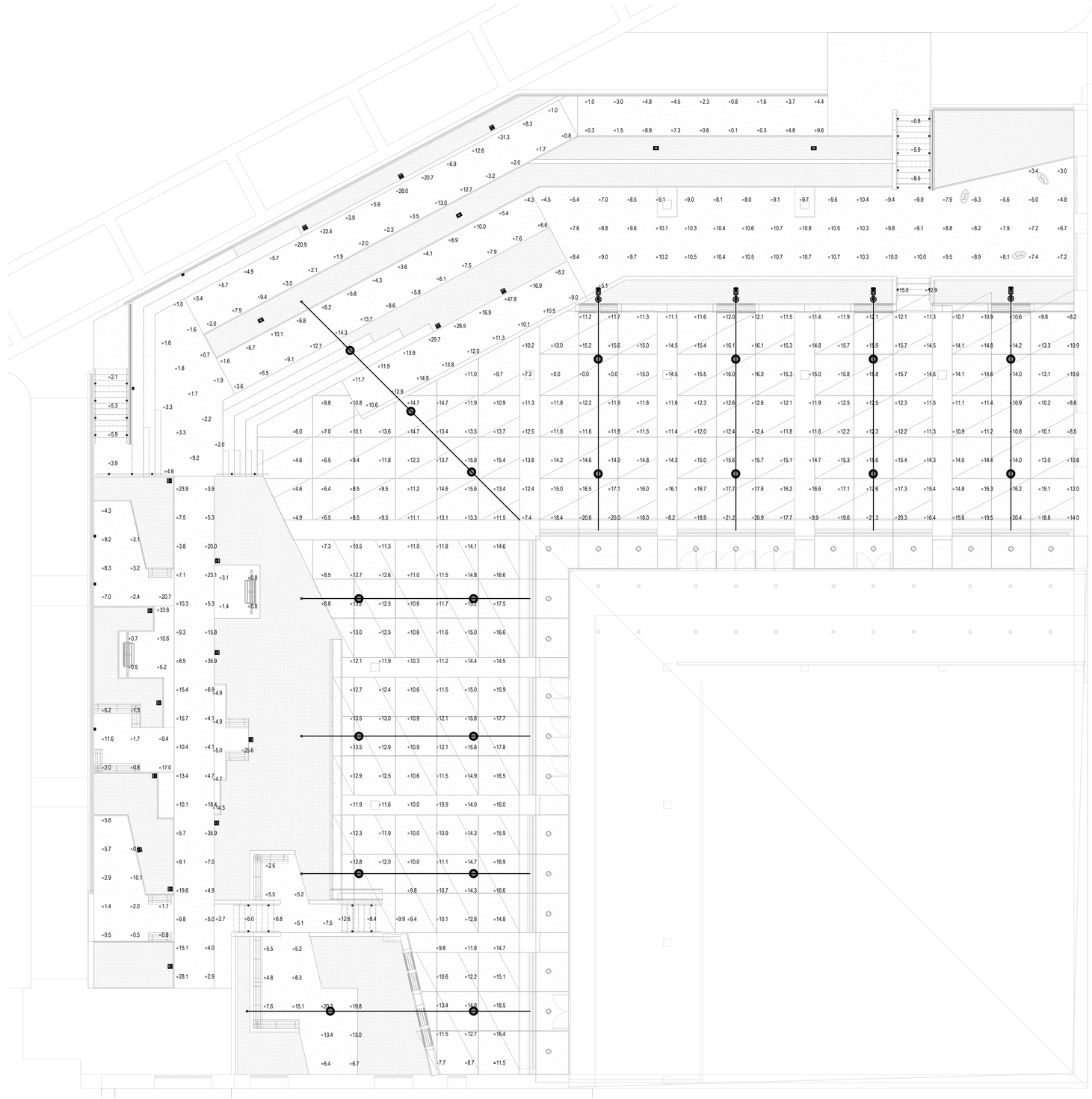
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PHOTOMETRIC PLAN - BASE BID

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PHOTOMETRIC PLAN - ALTERNATE
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PHOTOMETRIC PLAN - ALTERNATE

E104

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LIGHTING FIXTURE SCHEDULE - BASE BID

MARK	QTY	MANUFACTURER	MODEL	DESCRIPTION	VOLTS	WATTS	LUMENS	CCT (°K)	CRI	LAMPS	MOUNTING	NOTES
A	10	BEGA	B84221	COLUMN LIGHT	120	29	2324	3000	90	LED	GROUND	ADJUSTABLE LENS
B	15	BEGA	B84463	LIGHT BOLLARD	120	11.5	1892	3000	80	LED	GROUND	
D	33	KLIK	LP40-30K-A-500mA	HANDRAIL LIGHT	24	2	123	3000	80	LED	HANDRAIL	VERIFY RAIL DIAMETER & THICKNESS. PROVIDE DRIVERS AND LPNEMA6PTRO IP68 DIRECT BURIAL DRIVER ENCLOSURES WHERE INDICATED ON PLANS.
E	4	SELUX	RLRK-2G105-30-SV-UNV-DM	WALL SCONCE LED RETROFIT KIT	120	123	6634	3000	80	LED	WALL	RETROFIT KIT FOR EXISTING SELUX RSAL FIXTURES
F	4	TECH	PITCH	WALL SCONCE	120	26.2	823	3000	90	LED	WALL	

LIGHTING FIXTURE SCHEDULE - ALTERNATE

MARK	QTY	MANUFACTURER	MODEL	DESCRIPTION	VOLTS	WATTS	LUMENS	CCT (°K)	CRI	LAMPS	MOUNTING	NOTES
A	4	BEGA	B84221	COLUMN LIGHT	120	29	2324	3000	90	LED	GROUND	ADJUSTABLE LENS
B	16	BEGA	B84463	LIGHT BOLLARD	120	11.5	1892	3000	80	LED	GROUND	
C	19	WE-EF	RFS530 LED	CATENARY DOWNLIGHT	120	54	6024	3000	80	LED	CATENARY	PROVIDE WITH DOUBLE WIRE CATENARY CABLE SYSTEM AND ATTACHEMENTS FOR BUILDING AND LIGHT POLES
D	33	KLIK	LP40-30K-A-500mA	HANDRAIL LIGHT	24	2	123	3000	80	LED	HANDRAIL	VERIFY RAIL DIAMETER & THICKNESS. PROVIDE DRIVERS AND LPNEMA6PTRO IP68 DIRECT BURIAL DRIVER ENCLOSURES WHERE INDICATED ON PLANS.
F	5	TECH	PITCH	WALL SCONCE	120	26.2	823	3000	90	LED	WALL	
G	4	SELUX	U4-R3W-L1-5H140-30	POLE MOUNTED FIXTURE	120	123	6634	3000	90	LED	POLE	PROVIDE WITH 4" SQUARE STEEL POLE FOR CATENARY SUPPORT AND WITH WEATHERPROOF GFI OUTLETS. COORDINATE HEIGHT WITH ELEVATIONS.

PANELBOARD: CB (EXISTING)

LOCATION: CUSTODIAL B101 — **VOLTS:** 120/208 WYE — **A.I.C. RATING:** 65 kA
SUPPLY FROM: PANEL CJ (UPPER FL) — **PHASES:** 3 — **TYPE:** MAIN BREAKER
MOUNTING: SURFACE — **WIRES:** 4 — **RATING:** 100 A
ENCLOSURE: TYPE I

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	RESTROOM RECEPTACLES	20	1	0			1	20	SPARE	2
3	SUMP PUMP	20	1		0		1	20	WATER COOLER	4
5	ELEVATOR PIT LIGHTS	20	1			0	1	20	LIGHTS	6
7	ELEVATOR MACHINE ROOM LTS	20	1	0			1	20	EXISTING LOAD / SPARE	8
9	RR EXHAUST FAN	20	1		0		1	20	EXISTING LOAD / SPARE	10
11	EXISTING LOAD / SPARE	20	1			0	1	20	HAND DRYER	12
13	EXISTING LOAD / SPARE	20	1	0			1	20	HAND DRYER	14
15	EXISTING LOAD / SPARE	20	1		0		1	20	EXISTING LOAD / SPARE	16
17	EXISTING LOAD / SPARE	20	1			0	1	20	EXISTING LOAD / SPARE	18
19	EXISTING LOAD / SPARE	20	1	0			1	20	EXISTING LOAD / SPARE	20
21	EXISTING LOAD / SPARE	20	1		0		1	20	EXISTING LOAD / SPARE	22
23	EXISTING LOAD / SPARE	20	1			0	1	20	EXISTING LOAD / SPARE	24
25	EXISTING LOAD / SPARE	20	1	0			1	20	EXISTING LOAD / SPARE	26
27	EXISTING LOAD / SPARE	20	1		0		1	20	HAND DRYER	28
29	EXISTING LOAD / SPARE	20	1			0	1	20	EXISTING LOAD / SPARE	30
31	EXISTING LOAD / SPARE	20	1	0			1	20	EXISTING LOAD / SPARE	32
33	EXISTING LOAD / SPARE	20	1		0		2	20	FCU-10	34
35	EXISTING LOAD / SPARE	20	1			0				36
37	EXISTING LOAD / SPARE	20	1	0			1	20	EXISTING LOAD / SPARE	38
39	EXISTING LOAD / SPARE	20	1		0		1	20	EXISTING LOAD / SPARE	40
41	EXISTING LOAD / SPARE	20	1			0	1	20	EXISTING LOAD / SPARE	42
	TOTAL CONNECTED LOAD (AMPS):			0	0 A	0 A				
	TOTAL CONNECTED LOAD (VA):			0	0	0				
	CALCULATED DEMAND:				0 A					

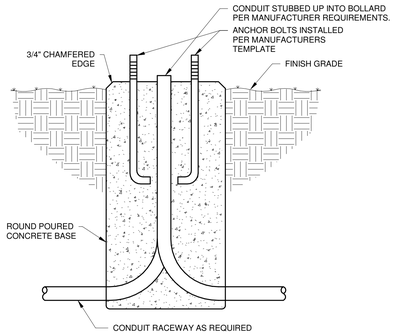
NOTES:
EXISTING PANEL TO REMAIN. BASED ON EXISTING RECORDS IT IS ASSUMED THAT SEVERAL OF THE CIRCUITS LABELED 'EXISTING LOAD / SPARE' ARE NOT IN USE AND CAN BE USED TO POWER NEW OUTDOOR RECEPTACLE CIRCUITS. FIELD VERIFY.

PANELBOARD: CB2

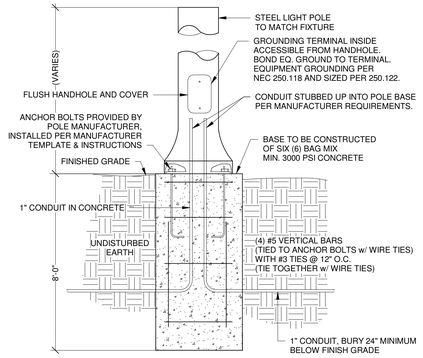
LOCATION: CUSTODIAL B101 — **VOLTS:** 120/208 SINGLE — **A.I.C. RATING:** 10k
SUPPLY FROM: PANEL CB (TAP) — **PHASES:** 1 — **TYPE:** MAIN BREAKER
MOUNTING: SURFACE — **WIRES:** 3 — **RATING:** 100 A
ENCLOSURE: TYPE I

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	MAIN BREAKER	40	2	0 1.5		1	20	EXTERIOR RECEPTACLE	2
3					0 1.5	1	20	EXTERIOR RECEPTACLE	4
5	EXTERIOR RECEPTACLE	20	1	1.5 1.5		1	20	EXTERIOR RECEPTACLE	6
	TOTAL CONNECTED LOAD (AMPS):			4.7	2 A				
	TOTAL CONNECTED LOAD (VA):			540	180				
	CALCULATED DEMAND:			3.5 A					

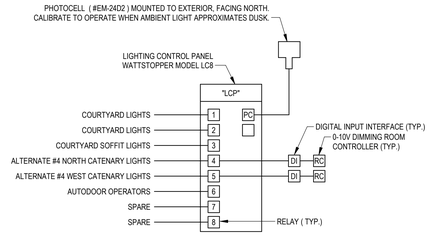
NOTES:
6 CIRCUIT 100A 1 PH LOAD CENTER EQUAL TO SQUARE D QO. NOT NEEDED IF EXISTING PANEL CB HAS (4) SPARE CIRCUITS. FIELD VERIFY.



1 BOLLARD BASE DETAIL
E600 NOT TO SCALE



2 CATENARY LIGHT POLE DETAIL (FLUSH MOUNT)
E600 NOT TO SCALE



LIGHTING CONTROL PANEL SCHEDULE		PANEL NO. - LCP
RELAY #	OVERRIDE	OPERATIONAL SCHEDULE
1	NO	SET TO RUN DURING NIGHT HOURS w/ PHOTOCELL
2	NO	SET TO RUN DURING NIGHT HOURS w/ PHOTOCELL
3	NO	SET TO RUN DURING NIGHT HOURS w/ PHOTOCELL
4	NO	SET TO RUN DURING NIGHT HOURS
5	NO	UNUSED / SPARE
6	NO	UNUSED / SPARE
7	NO	UNUSED / SPARE
8	NO	UNUSED / SPARE

3 LIGHTING CONTROL PANEL DETAIL
E600 NOT TO SCALE

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BINGHAM HALL - UPDATE COURTYARD AREA

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DESIGNED BY: RAV
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SEAL:

RUSSELL VINSON - ENGINEER
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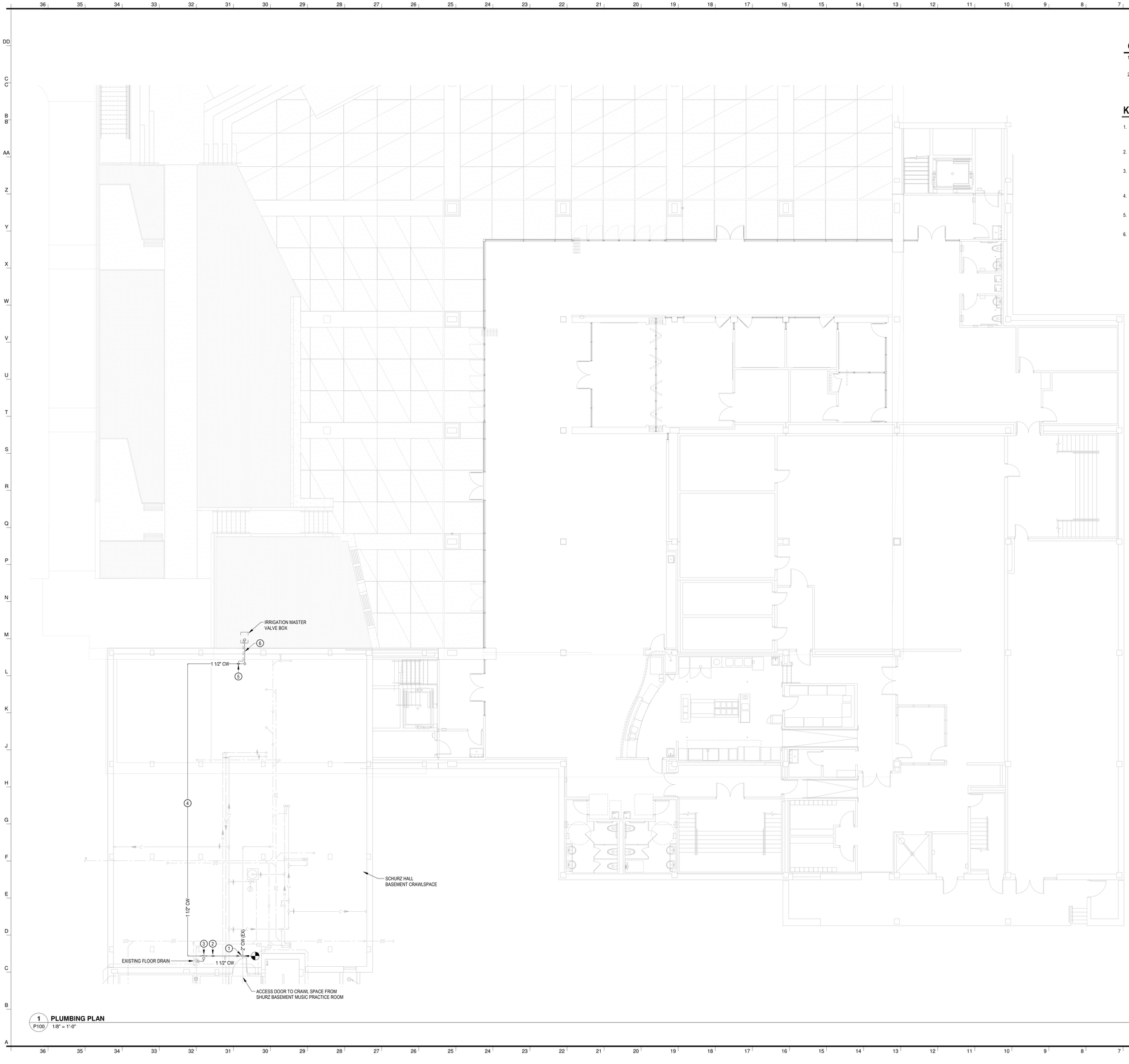
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ELECTRICAL SCHEDULES & DETAILS

E600

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1 P100 **PLUMBING PLAN**
1/8" = 1'-0"

GENERAL PLUMBING PLAN NOTES

1. SEE SEPARATE IRRIGATION PLANS FOR DETAILS OF THE EXTERIOR PIPING LAYOUT AND IRRIGATION EQUIPMENT LOCATIONS.
2. AN EXISTING IRRIGATION SYSTEM IN THE AREA MAY HAVE AN EXISTING WATER SUPPLY, BUT THE SOURCE COULD NOT BE DETERMINED. NOTIFY THE DESIGN TEAM IF AN ACTIVE IRRIGATION WATER CONNECTION IS LOCATED DURING DEMOLITION.

KEYED NOTES

1. IN THE BASEMENT CRAWL SPACE OF SHURZ HALL, CONNECT TO EXISTING 2" COLD WATER PIPING AS REQUIRED TO ROUTE NEW 1-1/2" WATER FOR IRRIGATION SYSTEM. PROVIDE SHUTOFF VALVE.
2. INSTALL IRRIGATION WATER METER FURNISHED BY OWNER/UTILITY. COORDINATE LOCATION AND REQUIREMENTS WITH UTILITY.
3. INSTALL A 1-1/2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER EQUAL TO ZURN/WILKINS MODEL 975XL3. PIPE RPZ DISCHARGE TO THE EXISTING FLOOR DRAIN NEAR THE ENTRANCE TO THE CRAWLSPACE.
4. ROUTE NEW 1-1/2" IRRIGATION WATER THROUGH THE CRAWL SPACE WITH HANGARS SUPPORTED FROM THE CONCRETE STRUCTURE ABOVE. COORDINATE EXACT ROUTE.
5. INSTALL 1-1/2" ULTRASONIC IRRIGATION FLOW METER EQUAL TO RAIN BIRD MODEL UFS-150BSP. PROVIDE WIRING TO IRRIGATION CONTROLLER AS REQUIRED.
6. AT THE EXTERIOR WALL, CORE DRILL CONCRETE STRUCTURE TO ROUTE 1-1/2" IRRIGATION WATER INTO THE NEW LANDSCAPING AT THE MAXIMUM DEPTH POSSIBLE AND CONNECT TO THE NEW IRRIGATION MASTER VALVE BOX AS REQUIRED. ROUTE LOW VOLTAGE WIRING FROM THE IRRIGATION METER THRU EXTERIOR WALL TO THE MASTER CONTROLLER AS REQUIRED. SEE IRRIGATION PLANS FOR CONTINUATION.

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PLUMBING PLAN

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