BLOOMINGTON CIVIC PLAZA SITE IMPROVEMENTS & FIRE STATION 3 CONCRETE REPAIR

ABBREVIATIONS:

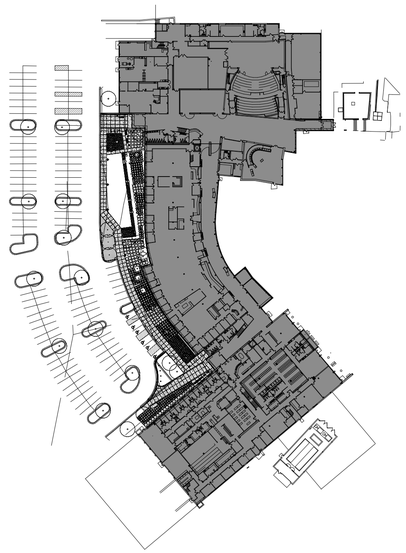
A	
ACC	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE OR ADJACENT
AED	AUTOMATIC EXTERNAL DEFIBRILLATOR
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPX	APPROXIMATE
ARCH	ARCHITECTURAL OR ARCHITECT
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS
AUTO	AUTOMATIC
AV	AUDIO-VISUAL
AVG	AVERAGE
AWP	ACOUSTIC(AL) WALL PANEL
L ( )	ANGLE
B	
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM OR BENCH MARK
BO	BOTTOM OF
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOF(ING)
C	
C	CHANNEL
CCD	CONSTRUCTION CHANGE DIRECTIVE
CFMF	COLD FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR OR CLEARANCE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
CO	CHANGE ORDER
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECT(ED) OR CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CR	CARD READER
CSK	COUNTERSINK
CT	CERAMIC TILE
CTR	CENTER
CU	CUBIC
CUH	CABINET UNIT HEATER
CY	CUBIC YARD
CYL	CYLINDER
D	
DBL	DOUBLE
DEMO	DEMOLITION OR DEMOLISH
DPT	DEPARTMENT
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER

E	
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATED FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION OR EXPOSED
EXT	EXTERIOR
EXTR	EXTRUDED OR EXTRUSION
F	
FCBRK	FACE BRICK
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FIN	FINISH OR FINISHED
FIX	FIXTURE
FL	FLOOR
FLASH	FLASHING
FLUOR	FLUORESCENT
FO	FIELD ORDER
FP	FIREPROOF(ING)
FR	FRAME
FRMG	FRAMING
FRP	FIBERGLASS REINFORCED PLASTIC
FT (')	FOOT OR FEET
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FVC	FIRE VALVE CABINET
G	
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GL	GLASS OR GLAZING
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	
HB	HOSE BIBB
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
I	
ID	INSIDE DIAMETER
IN(")	INCH(ES)
INCL	INCLUDE(D) OR INCLUDING
INSUL	INSULATION OR INSULATING
INT	INTERIOR
J	
JAN	JANITOR
JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT
K	
KO	KNOCK OUT

L	
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LB	POUND(S)
LF	LINEAR FEET
LTG	LIGHTING
LTWT	LIGHT WEIGHT
LVR	LOUVER
M	
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MKR BD	MARKER BOARD
MO	MASONRY OPENING
MOD	MODULAR
MP	METAL PANEL
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MW	MICROWAVE
N	
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFICE
OS	OVERFLOW SCUPPER
OH	OVERHANG/OVERHEAD
OH DR	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
P	
PAR	PARALLEL
PD	PROJECT DIRECTIVE
PED	PEDESTAL
PERP	PERPENDICULAR
PL	PLATE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PR	PROPOSAL REQUEST
PREFAB	PREFABRICATED
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAINTED
PTN	PARTITION
Q	
QS	QUARTZ SURFACING
QT	QUARRY TILE
QTY	QUANTITY

R	
R	RADIUS OR RISER
RAD	RADIATOR OR RADIATION
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECEP	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCE
REQD	REQUIRED
RET	RETURN
RF	RESILIENT FLOOR(ING)
RFI	REQUEST FOR INFORMATION
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
RUB	RUBBER
RVL	REVEAL
RVS	REVERSE
S	
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHR	SHOWER
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SLNT	SEALANT
SOG	SLAB ON GRADE
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	SOLID SURFACE
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURAL OR STRUCTURE
SURF	SURFACE
SUSP	SUSPEND(ED)
SYM	SYMMETRICAL
SYS	SYSTEM
T	
T	TREAD
TEMP	TEMPERATURE OR TEMPERED
TER	TERRAZZO
TG	TONGUE AND GROOVE
THK	THICK(NESS)
THRES	THRESHOLD
TKBD	TACK BOARD
TO	TOP OF
TRANS	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
U	
UH	UNIT HEATER
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
V	
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VFY	VERIFY
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VTR	VENT THRU ROOF
W	
W	WEST
W/	WITH
W/O	WITHOUT
WC	WALL COVERING OR WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
Y	
YD	YARD

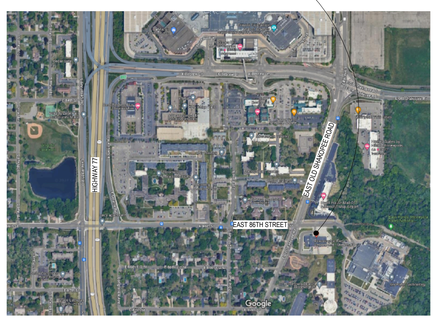
1D ALLIIANCE ABBREVIATIONS
12" = 1'-0"



4B CIVIC PLAZA SITE IMPROVEMENT KEY PLAN
1" = 100'-0"

DRAWING INDEX

BLOOMINGTON FIRE STATION 3
2301 E 86TH STREET
BLOOMINGTON, MN 55425



4D FIRE STATION 3 LOCATION PLAN
12" = 1'-0"

BLOOMINGTON CIVIC PLAZA
1800 WEST OLD SHAKOPEE ROAD
BLOOMINGTON, MN 55431

5D CIVIC PLAZA LOCATION PLAN
NTS

PROJECT
Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT
City of Bloomington
CLIENT PROJECT NUMBER: 25-10

ARCHITECT
Alliiance
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LANDSCAPE ARCHITECT
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651.341.3611

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EVS Engineering
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Architect under the laws of the State of Minnesota.

FOR **Alliiance**
BY
NAME **Ken Sheehan**
DATE **2025.02.07**
REG NO. **43965**

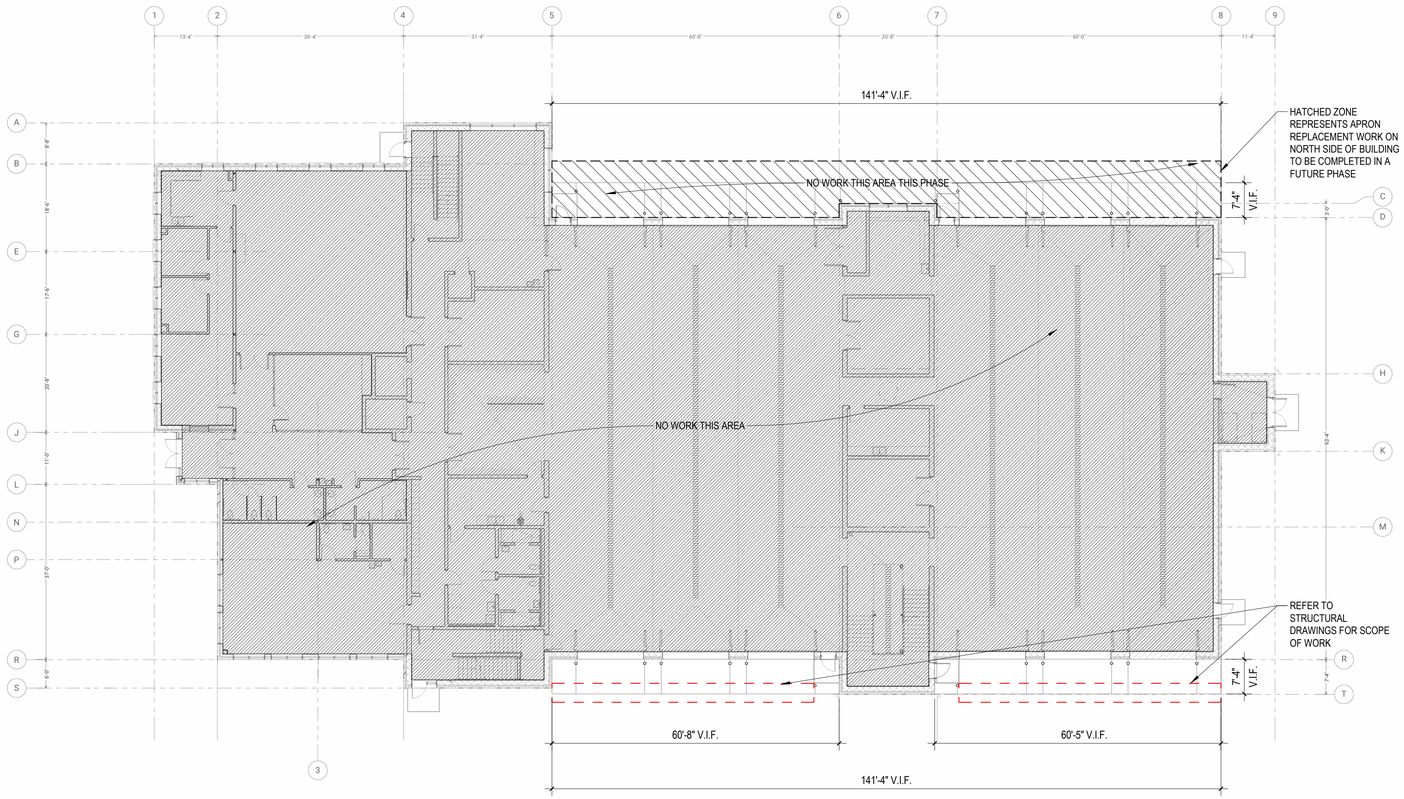
ISSUED FOR	DATE
95% REVIEW	02.07.2025

COMMISSION NO **2025008-08 (2023003-09)**

ALLIIANCE

DRAWING INDEX, LOCATION PLANS

g0.01



1C FIRE STATION 3 EXISTING PLAN
1/16" = 1'-0"

GENERAL NOTES

1. THESE GENERAL NOTES SHALL APPLY TO ALL DRAWINGS, UNO.
2. DO NOT SCALE DRAWINGS. DIMENSIONS SHOWN ON DRAWINGS SHALL GOVERN.

PROJECT

Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT

City of Bloomington

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BY	
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REG NO.	**43965**

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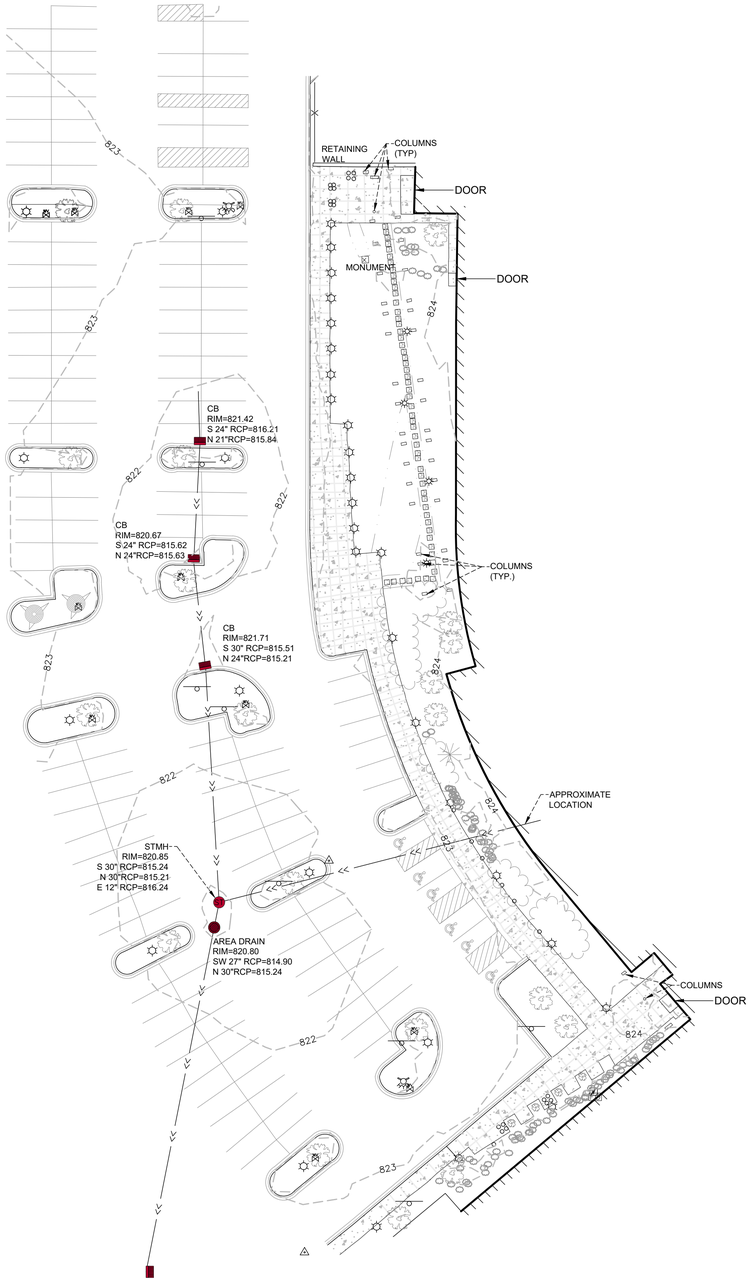
95% REVIEW	02.07.2025

COMMISSION NO **2025008-08 (2023003-09)**

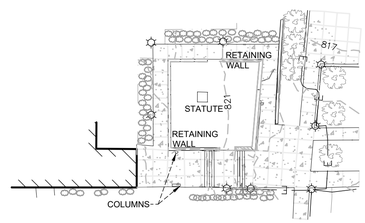
ALLIANCE

FS3 KEY PLAN

g0.02



1 C-100 PROJECT AREA A
1" = 30'



2 C-100 PROJECT AREA B
1" = 30'

LEGEND

EXISTING FEATURES

- PROPERTY LINE
- EASEMENT LINE
- BUILDING WALL
- COLUMN
- TREES
- WETLAND
- WETLAND BUFFER
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- UNDERGROUND GAS
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND ELECTRICAL LINE
- FIBER OPTIC LINE
- STEAM LINE
- OVERHEAD POWER LINE
- CATCH BASIN
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- MISC. MANHOLE
- GATE VALVE
- HYDRANT
- FIRE DEPARTMENT CONNECTION
- GAS VALVE
- LIGHT POLE
- GROUND LIGHT
- SIGNAGE
- HAND HOLE
- ELECTRICAL OUTLET
- UTILITY POLE
- TRAFFIC SIGNAL
- MINOR CONTOUR
- MAJOR CONTOUR

PROJECT

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FOR	**EVS, Inc.**
BY	
NAME	**Daniel E. Bowar**
DATE	**05 FEB 2025**
REG NO.	**45018**

ISSUED FOR	DATE
95% REVIEW	02.07.2025

COMMISSION NO **2025008-08 (2023003-09)**

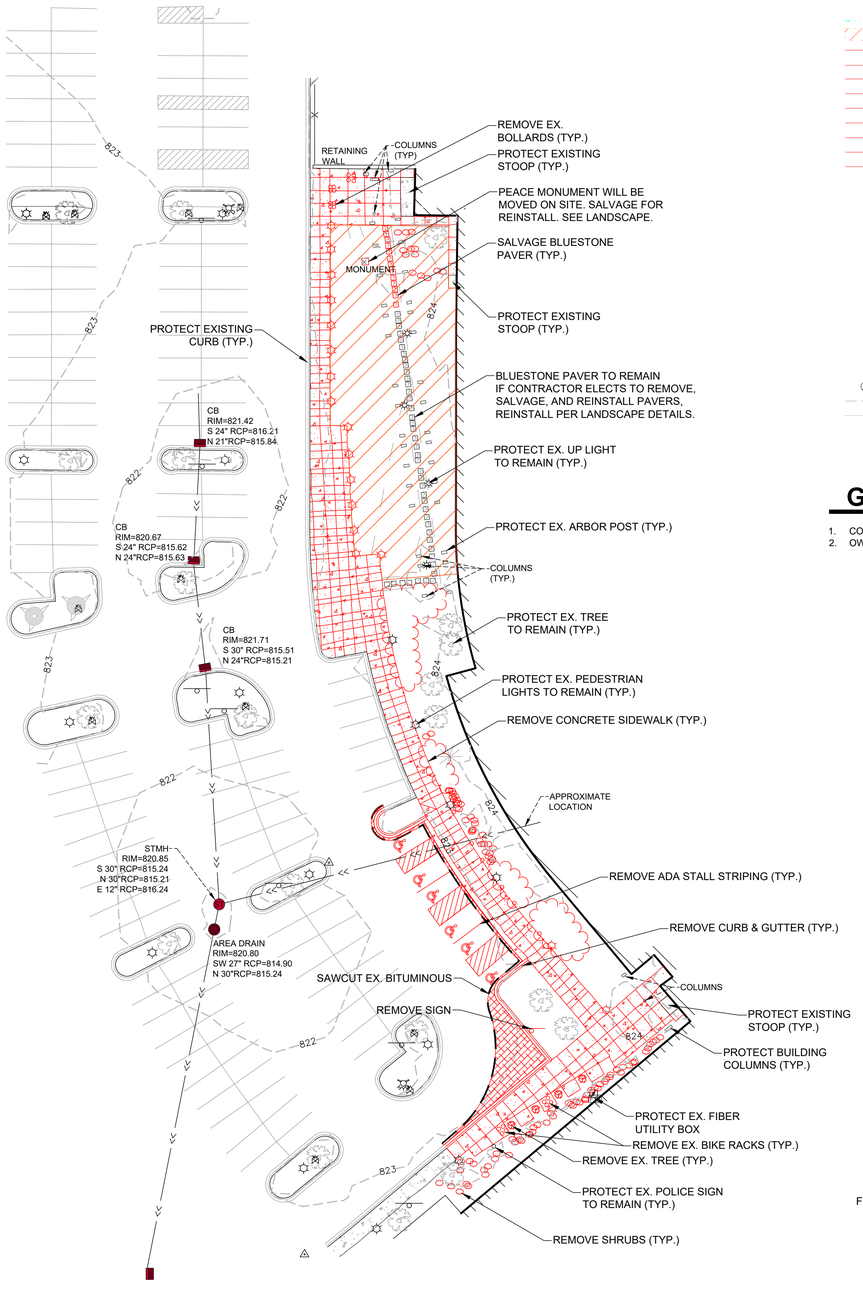
NORTH

0 30 60 FT
1 2 IN
DRAWING SCALES APPLY TO 22" x 34" SHEETS

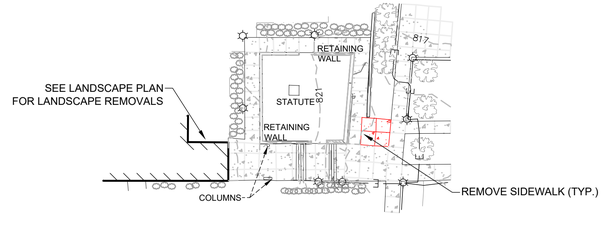
ALLIANCE

EXISTING CONDITIONS

C100



1 C-100 PROJECT AREA A
1" = 30'



2 C-100 PROJECT AREA B
1" = 30'

LEGEND

EXISTING FEATURES

- PROPERTY LINE
- EASEMENT LINE
- BUILDING WALL
- COLUMN
- TREES
- WETLAND
- WETLAND BUFFER
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- UNDERGROUND GAS
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND ELECTRICAL LINE
- FIBER OPTIC LINE
- STEAM LINE
- OVERHEAD POWER LINE
- CATCH BASIN
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- MISC. MANHOLE
- GATE VALVE
- HYDRANT
- FIRE DEPARTMENT CONNECTION
- GAS VALVE
- LIGHT POLE
- GROUND LIGHT
- SIGNAGE
- HAND HOLE
- ELECTRICAL OUTLET
- UTILITY POLE
- TRAFFIC SIGNAL
- MINOR CONTOUR
- MAJOR CONTOUR

REMOVALS

- SAWCUT
- UTILITY LINE REMOVAL
- CONCRETE REMOVAL
- BITUMINOUS REMOVAL
- CURB/RETAINING WALL REMOVAL
- SIGNAGE REMOVAL
- TREE REMOVAL
- MANHOLE/CATCH BASIN REMOVAL
- ELECTRICAL UTILITY REMOVAL
- STRUCTURE REMOVAL
- LANDSCAPE REMOVAL
- CONSTRUCTION ZONE

GENERAL NOTES

1. CONTRACTOR TO COORDINATE TIMING OF REMOVALS WITH OWNER PRIOR TO COMMENCING WORK.
2. OWNER TO REMOVE EXISTING BENCHES AND TRASH/RECYCLE RECEPTACLES PRIOR TO START OF CONSTRUCTION.

PROJECT

Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT

City of Bloomington

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FOR **EVS, Inc.**
BY
NAME **Daniel E. Bowar**
DATE **05 FEB 2025**
REG NO. **45018**

ISSUED FOR	DATE
95% REVIEW	02.07.2025

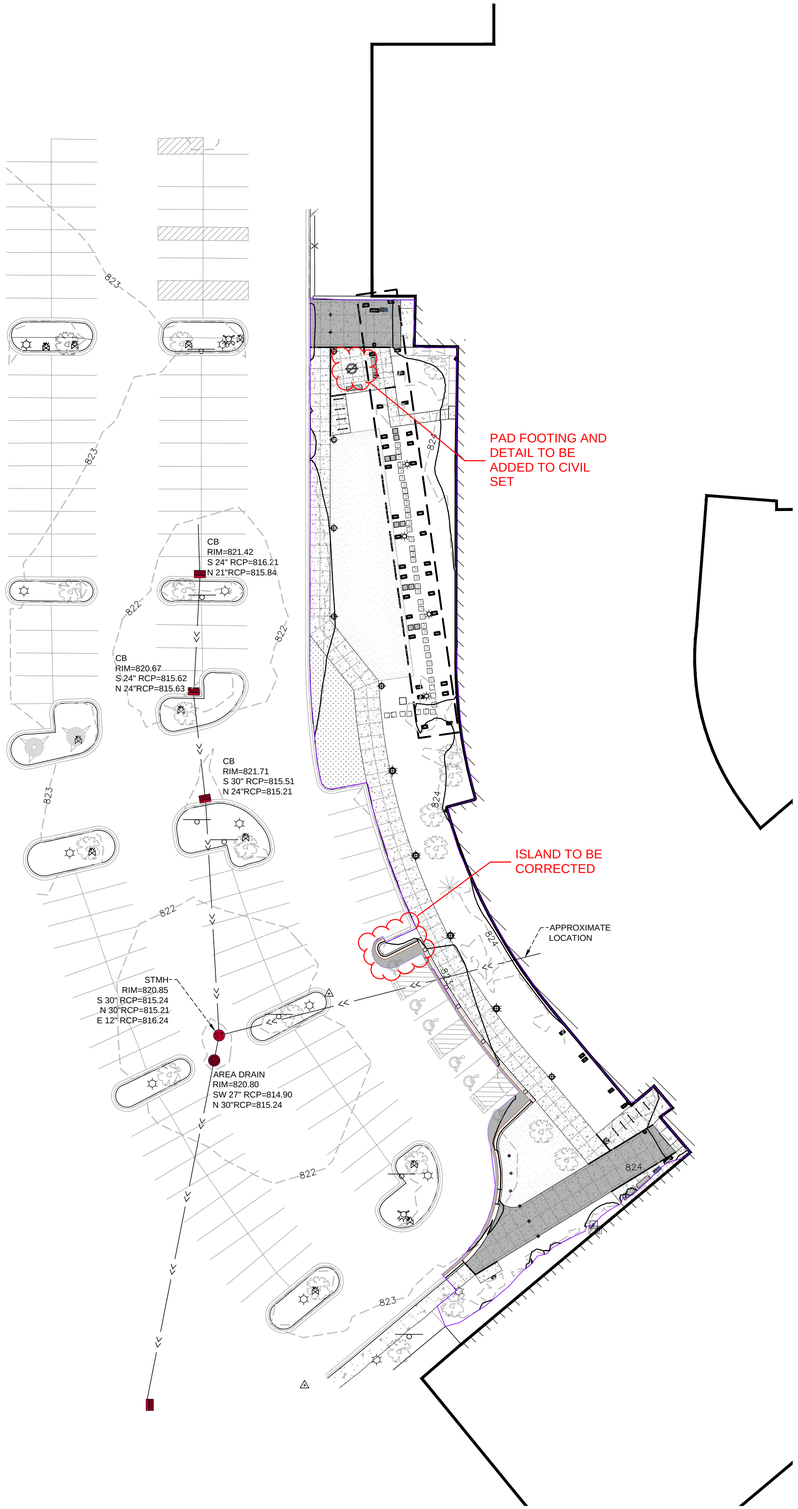
COMMISSION NO **2025008-08 (2023003-09)**

NORTH
0 30 60 FT
1 2 IN
DRAWING SCALES APPLY TO 22" x 34" SHEETS

ALLIANCE

DEMOLITION PLAN

C105



1 C-200 PROJECT AREA A
1" = 30'

LEGEND

EXISTING FEATURES

- PROPERTY LINE
- EASEMENT LINE
- BUILDING WALL
- COLUMN
- TREES
- WETLAND
- WETLAND BUFFER
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- UNDERGROUND GAS
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND ELECTRICAL LINE
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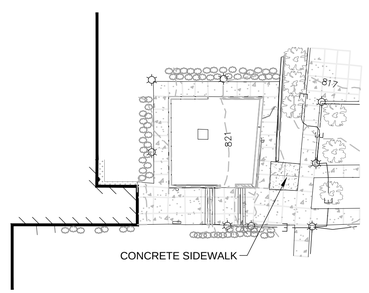
- HYDRANT
- FIRE DEPARTMENT CONNECTION
- GAS VALVE
- LIGHT POLE
- GROUND LIGHT
- SIGNAGE
- HAND HOLE
- ELECTRICAL OUTLET
- UTILITY POLE
- TRAFFIC SIGNAL
- MINOR CONTOUR
- MAJOR CONTOUR

PROPOSED FEATURES

- SETBACK LINE
- COLOR CONCRETE WALK (SPEC. 2521)
- CONCRETE WALK (SPEC. 2521)
- BITUMINOUS PAVEMENT MATCH EX. SECTION (SPEC. 2360)
- B612 CURB AND GUTTER (SPEC. 2531)
- ROAD CENTERLINE
- GRADING EDGE
- MAJOR CONTOUR
- MINOR CONTOUR
- STORMWATER BASIN
- CONSTRUCTION ZONE
- TREE
- RETAINING WALL
- 900.00 TIPOUT — B612 CURB & GUTTER (TIP OUT)
- 900.00 — RIBBON CURB & GUTTER
- 900.00 — PROPOSED GRADE ELEVATION

COLOR CONCRETE WALK

1. COLOR PIGMENT: SPEKTRA "RUSTIC OAK" CPC-138L.
2. LIGHT ACID ETCH: GRACE TOP-CAST 03.
3. CONTRACTOR TO SUBMIT COLOR CHART FOR FINAL SELECTION AND TO HAVE A MOCK-UP FOR FINAL APPROVAL.



2 C-200 PROJECT AREA B
1" = 30'

PROJECT

Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT

City of Bloomington

CLIENT PROJECT NUMBER: 25-10

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NORTH

0 30 60 FT
1 2 IN

DRAWING SCALES APPLY TO 22" x 34" SHEETS

ALLIANCE

OVERALL SITE & GRADING PLAN

C-200

LEGEND

EXISTING FEATURES

- PROPERTY LINE
- EASEMENT LINE
- BUILDING WALL
- COLUMN
- TREES
- WETLAND
- WETLAND BUFFER
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- UNDERGROUND GAS
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- UTILITY POLE
- TRAFFIC SIGNAL
- MINOR CONTOUR
- MAJOR CONTOUR

PROPOSED FEATURES

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- COLOR CONCRETE WALK (SPEC. 2521)
- CONCRETE WALK (SPEC. 2521)
- BITUMINOUS PAVEMENT MATCH EX. SECTION (SPEC. 2360)
- B612 CURB AND GUTTER (SPEC. 2531)
- ROAD CENTERLINE
- GRADING EDGE
- MAJOR CONTOUR
- MINOR CONTOUR
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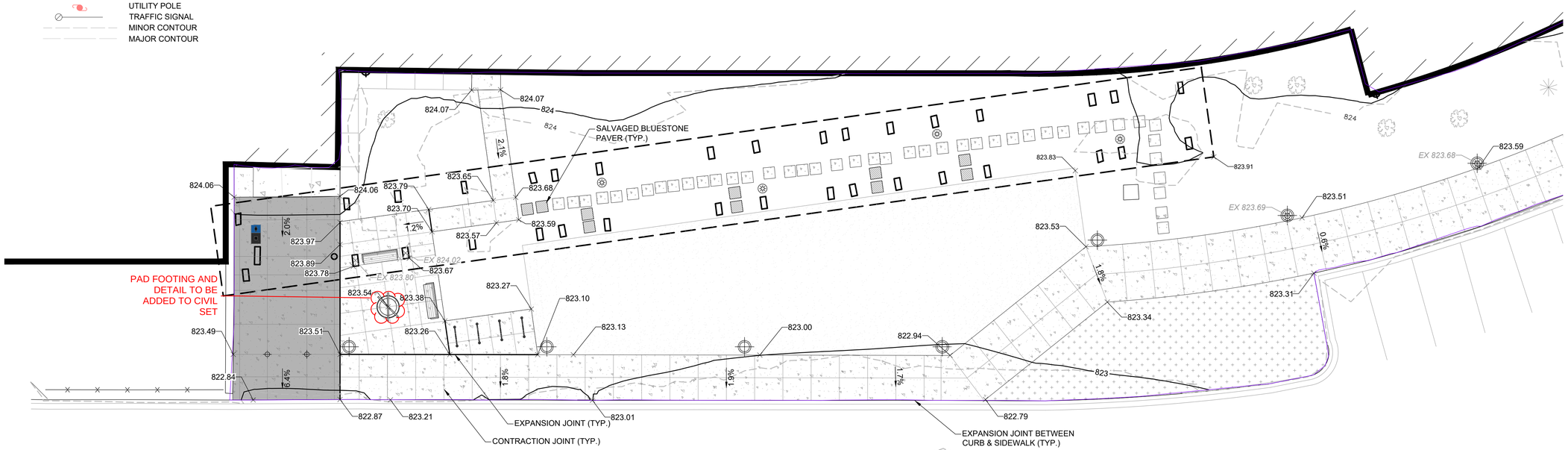
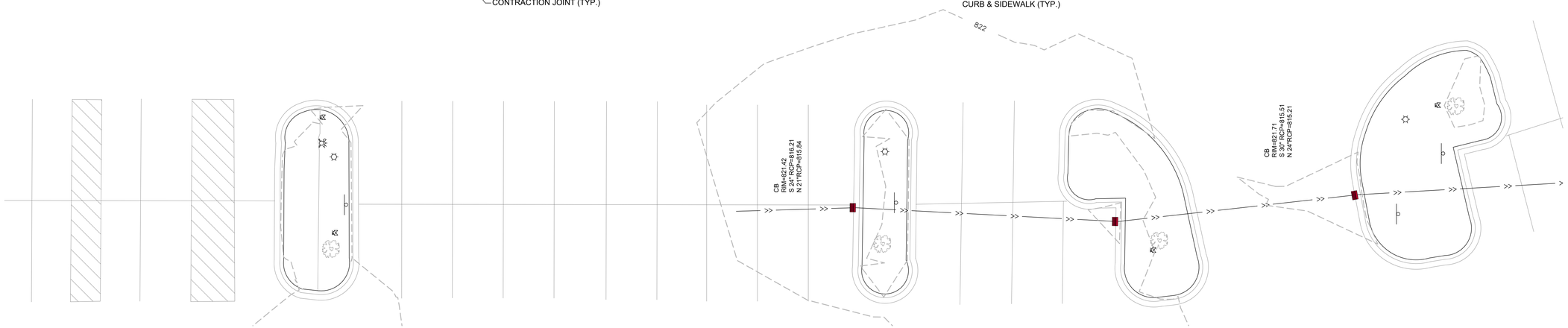
- CONSTRUCTION ZONE
- TREE
- RETAINING WALL
- 900.00 TIPOUT — B612 CURB & GUTTER (TIP OUT)
- 900.00 — RIBBON CURB & GUTTER
- 900.00 — PROPOSED GRADE ELEVATION





PROJECT

Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT

City of Bloomington

CLIENT PROJECT NUMBER: 25-10

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NORTH

0 10 20 FT

1 2 IN

DRAWING SCALES APPLY TO 22" x 34" SHEETS

ALLIANCE

SITE & GRADING PLAN

C-201

LEGEND

EXISTING FEATURES

- PROPERTY LINE
- EASEMENT LINE
- BUILDING WALL
- COLUMN
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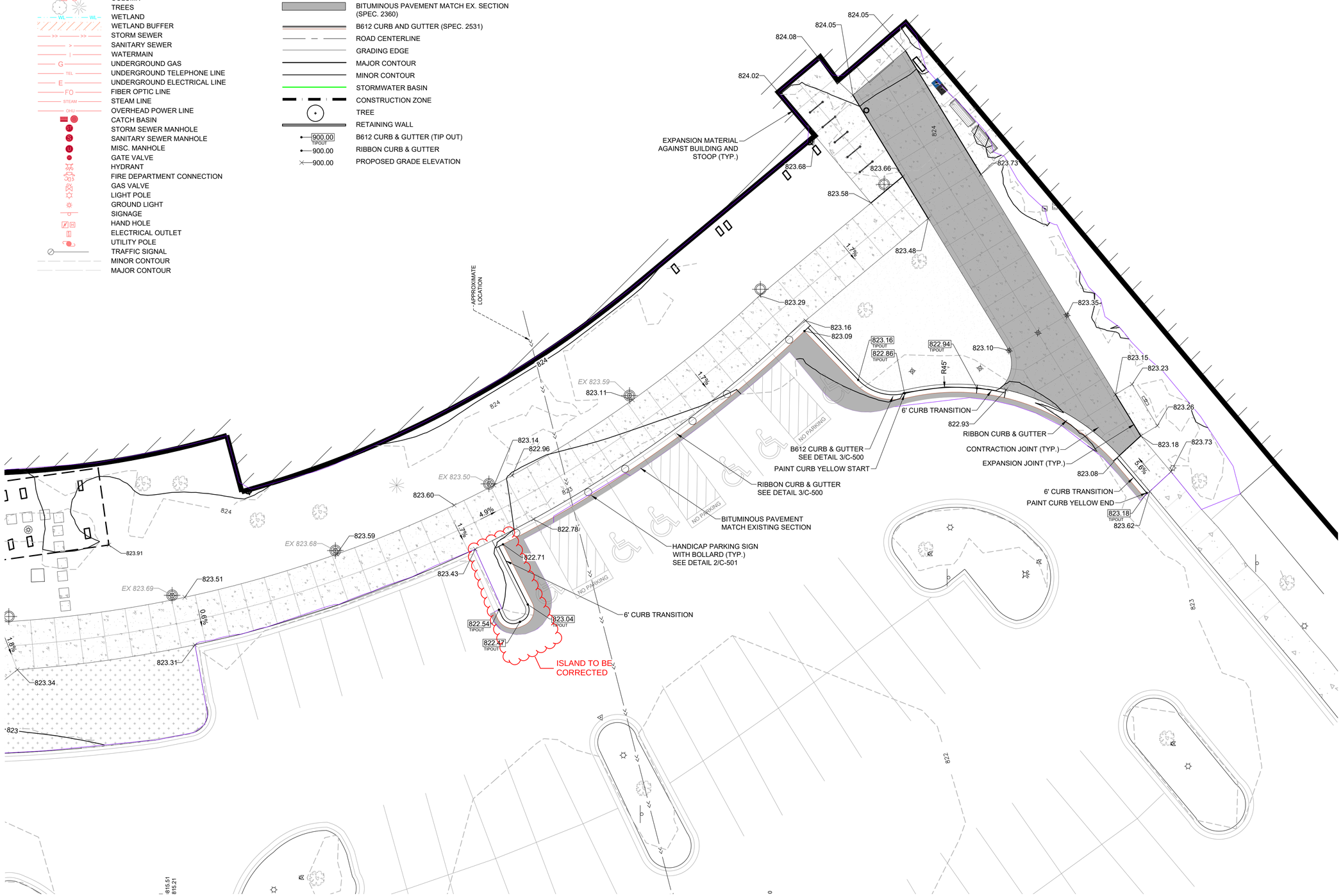
- OVERHEAD POWER LINE
- CATCH BASIN
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- MISC. MANHOLE
- GATE VALVE
- HYDRANT
- FIRE DEPARTMENT CONNECTION
- GAS VALVE
- LIGHT POLE
- GROUND LIGHT
- SIGNAGE
- HAND HOLE
- ELECTRICAL OUTLET
- UTILITY POLE
- TRAFFIC SIGNAL
- MINOR CONTOUR
- MAJOR CONTOUR

PROPOSED FEATURES

- SETBACK LINE
- COLOR CONCRETE WALK (SPEC. 2521)
- CONCRETE WALK (SPEC. 2521)
- BITUMINOUS PAVEMENT MATCH EX. SECTION (SPEC. 2360)
- B612 CURB AND GUTTER (SPEC. 2531)
- ROAD CENTERLINE
- GRADING EDGE
- MAJOR CONTOUR
- MINOR CONTOUR
- STORMWATER BASIN
- CONSTRUCTION ZONE
- TREE
- RETAINING WALL
- 900.00 TIPOUT — B612 CURB & GUTTER (TIP OUT)
- 900.00 — RIBBON CURB & GUTTER
- 900.00 — PROPOSED GRADE ELEVATION



PROJECT

Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT

City of Bloomington

CLIENT PROJECT NUMBER: 25-10

ARCHITECT
Alliance
612.874.4100

LANDSCAPE ARCHITECT
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FOR	**EVS, Inc.**
BY	
NAME	**Daniel E. Bowar**
DATE	**05 FEB 2025**
REG NO.	**45018**

ISSUED FOR	DATE
95% REVIEW	02.07.2025

COMMISSION NO **2025008-08 (2023003-09)**

NORTH

0 10 20 FT

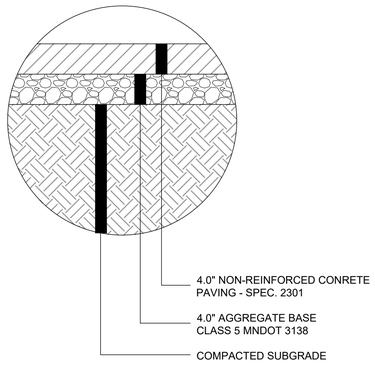
1 2 IN

DRAWING SCALES APPLY TO 22" x 34" SHEETS

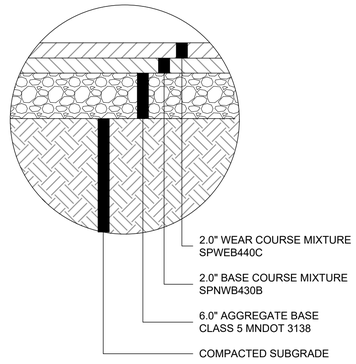
ALLIANCE

SITE & GRADING PLAN

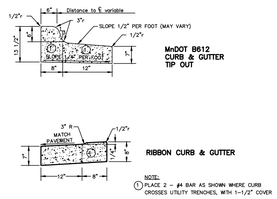
C-202



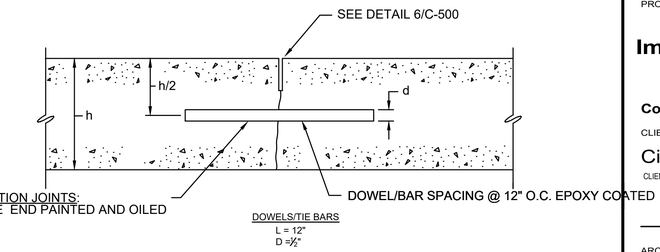
1 C-500 CONCRETE SIDEWALK
NOT TO SCALE



2 C-500 BITUMINOUS PAVEMENT
NOT TO SCALE

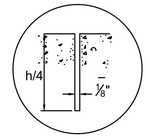


3 C-500 CONCRETE CURB & GUTTER
NOT TO SCALE



NOTE:
OMIT DOWELS/BARS AT CONTRACTION JOINTS.

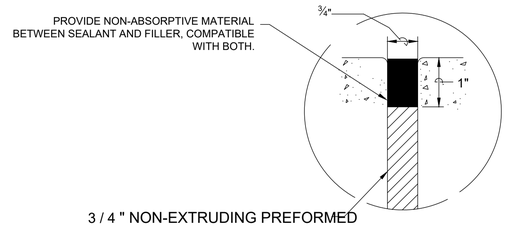
5 C-500 CONCRETE PAVEMENT CONSTRUCTION AND CONTRACTION JOINTS
NOT TO SCALE



A SAWED

NOTE: PROVIDE SAWN CONTRACTION JOINTS IF SLIPFORM METHOD OF PLACEMENT IS CHOSEN.

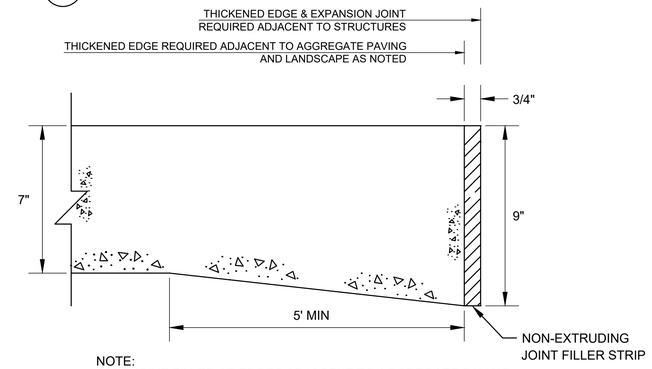
6 C-500 CONCRETE CONTRACTION JOINTS
NOT TO SCALE



3 / 4 " NON-EXTRUDING PREFORMED JOINT FILLER

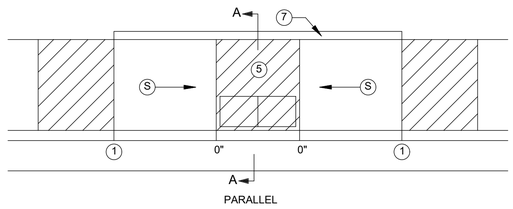
1. NOTES
1.1. EXPANSION JOINTS TO BE PLACED BETWEEN POURS, BUILDING AND SITE FEATURE FOUNDATIONS, EXISTING HARD EDGES AND AS GUIDED BY MNDOT SPEC . SPACING AVERAGES BETWEEN 60 AND 100 FEET ON LINEAR SIDEWALK

7 C-500 CONCRETE EXPANSION JOINTS POURED-IN-PLACE JOINT SEALANT
NOT TO SCALE

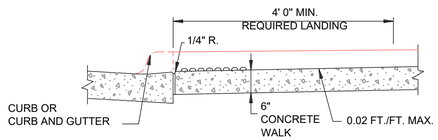


NOTE:
OMIT JOINT FILLER AT EDGES ADJACENT TO AGGREGATE PAVING.

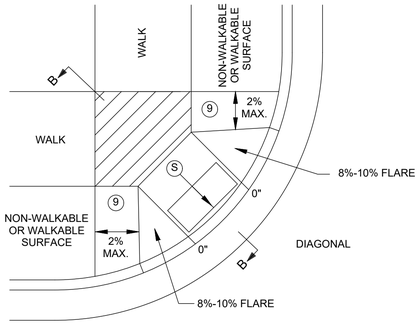
8 C-500 CONCRETE THICKENED EDGE EXPANSION JOINT (TEJ)
NOT TO SCALE

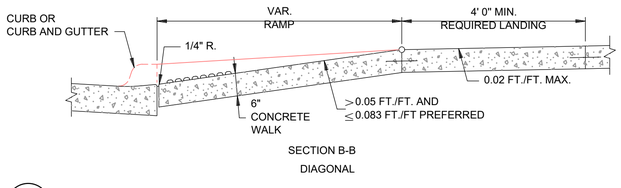


PARALLEL



SECTION A-A
PARALLEL





SECTION B-B
DIAGONAL

4 C-500 PEDESTRIAN CURB RAMP
NOT TO SCALE

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE GREATER THAN 2%.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL RUNNING SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOPS OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH. (EXCEPT AS STATED IN (6) BELOW.

TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISIONS - PROSECUTION OF WORK (ADA).

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

WHEN THE BOULEVARD IS 4' WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER ENTIRE WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK. DETECTABLE WARNING SHOULD BE 6" LESS THAN THE PAR/TRAIL WIDTH. ARC LENGTH OF RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.

(1) MATCH FULL HEIGHT CURB.
(2) 4' MINIMUM DEPTH LANDING REQUIRED ACROSS TOP OF RAMP.
(3) 3" HIGH CURB WHEN USING A 3' LONG RAMP, 4" HIGH CURB WHEN USING A 4' LONG RAMP.
(4) SEE SHEET 4 OF 6, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS, WHEN INITIAL LANDING IS AT FULL CURB HEIGHT.
(5) DETECTABLE WARNINGS MAY BE PART OF THE 4' X 4' MIN. LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.
(6) THE GRADE BREAK SHALL BE PERPENDICULAR TO THE BACK OF WALK. THIS WILL ENSURE THAT THE GRADE BREAK IS PERPENDICULAR TO THE DIRECTION OF TRAVEL. (TYPICAL FOR ALL)
(7) WHEN ADJACENT TO GRASS, GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.
(8) A 7' MIN TOP RADIUS GRADE BREAK REQUIRED TO BE CONSTRUCTIBLE.
(9) PAVE FULL WALK WIDTH.
(10) "S" SLOPES ON FANS SHALL ONLY BE USED WHEN ALL OTHER FEASIBLE OPTIONS HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

(S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.

(F) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.

LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

X" CURB HEIGHT

PROJECT
Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT
City of Bloomington
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Alliance
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FOR **EVS, Inc.**
BY
NAME **Daniel E. Bowar**
DATE **05 FEB 2025**
REG NO. **45018**

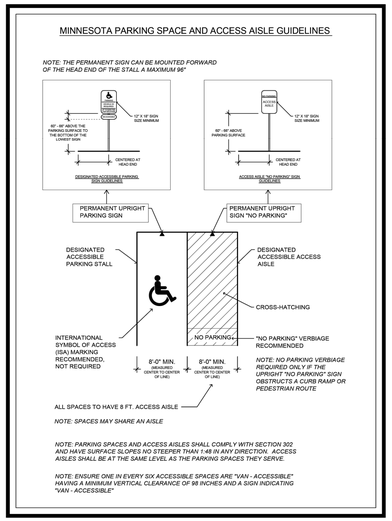
ISSUED FOR	DATE
95% REVIEW	02.07.2025

COMMISSION NO **2025008-08 (2023003-09)**

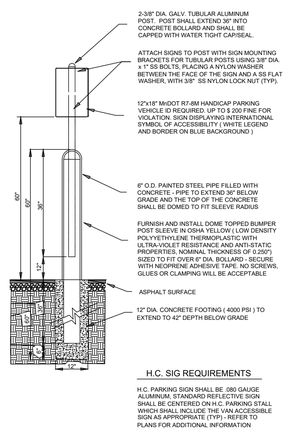
ALLIANCE

DETAILS

C-500



1 C-501 PARKING SPACE AND ACCESS AISLE GUIDELINES
NOT TO SCALE



2 C-501 HANDICAP PARKING SIGN WITH BOLLARD
NOT TO SCALE

PROJECT

Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

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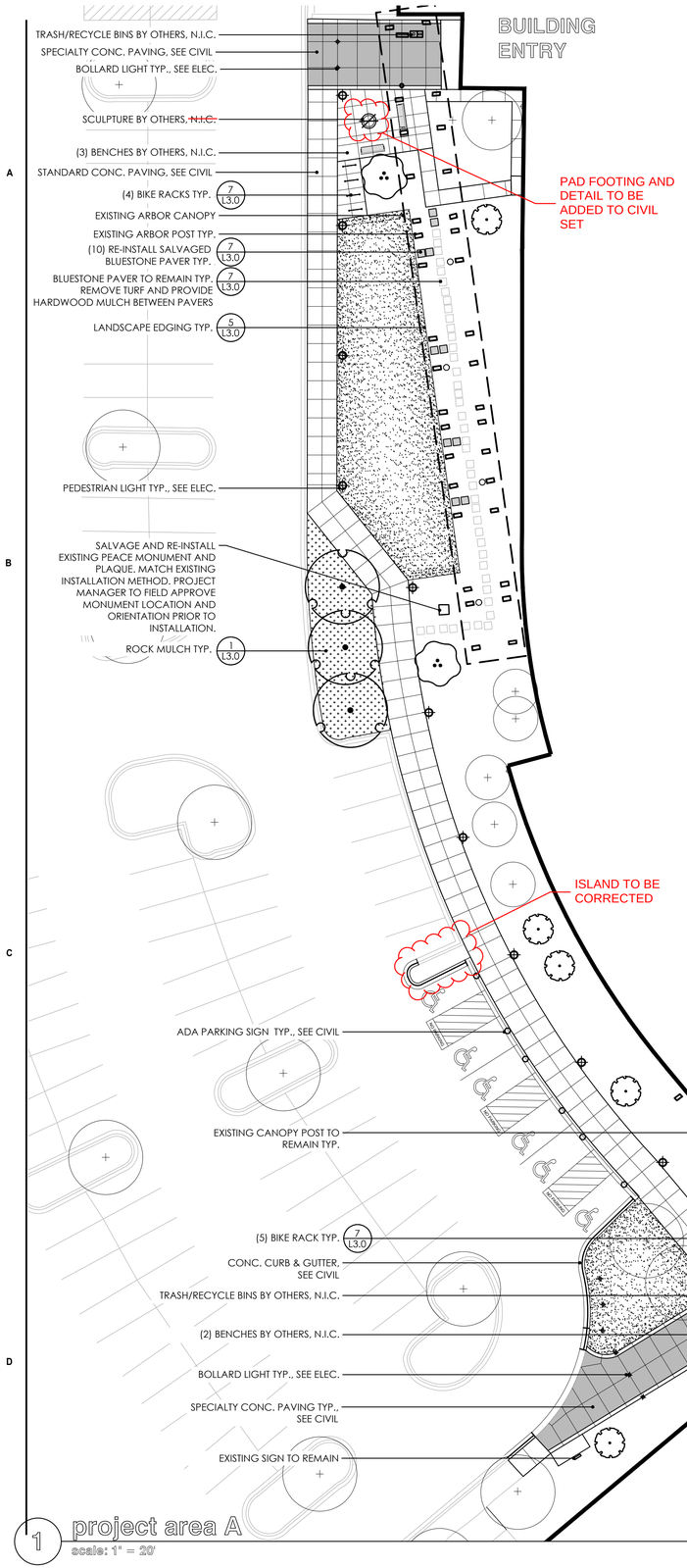
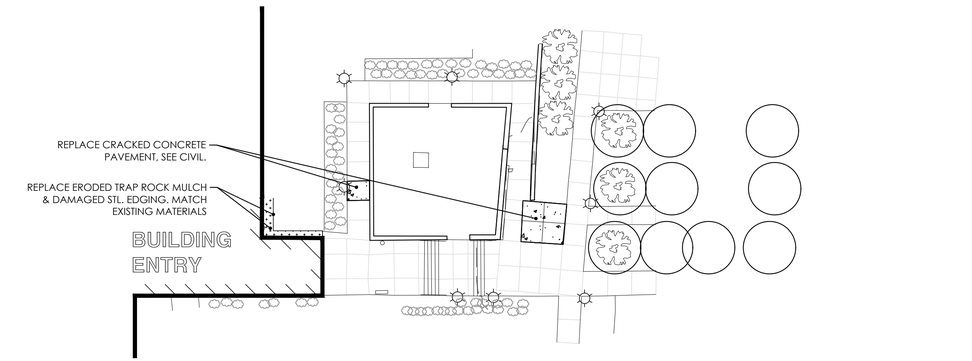
DETAILS

C-501



1 project area A
scale: 1" = 20'



2 project area B
scale: 1" = 20'

PROJECT

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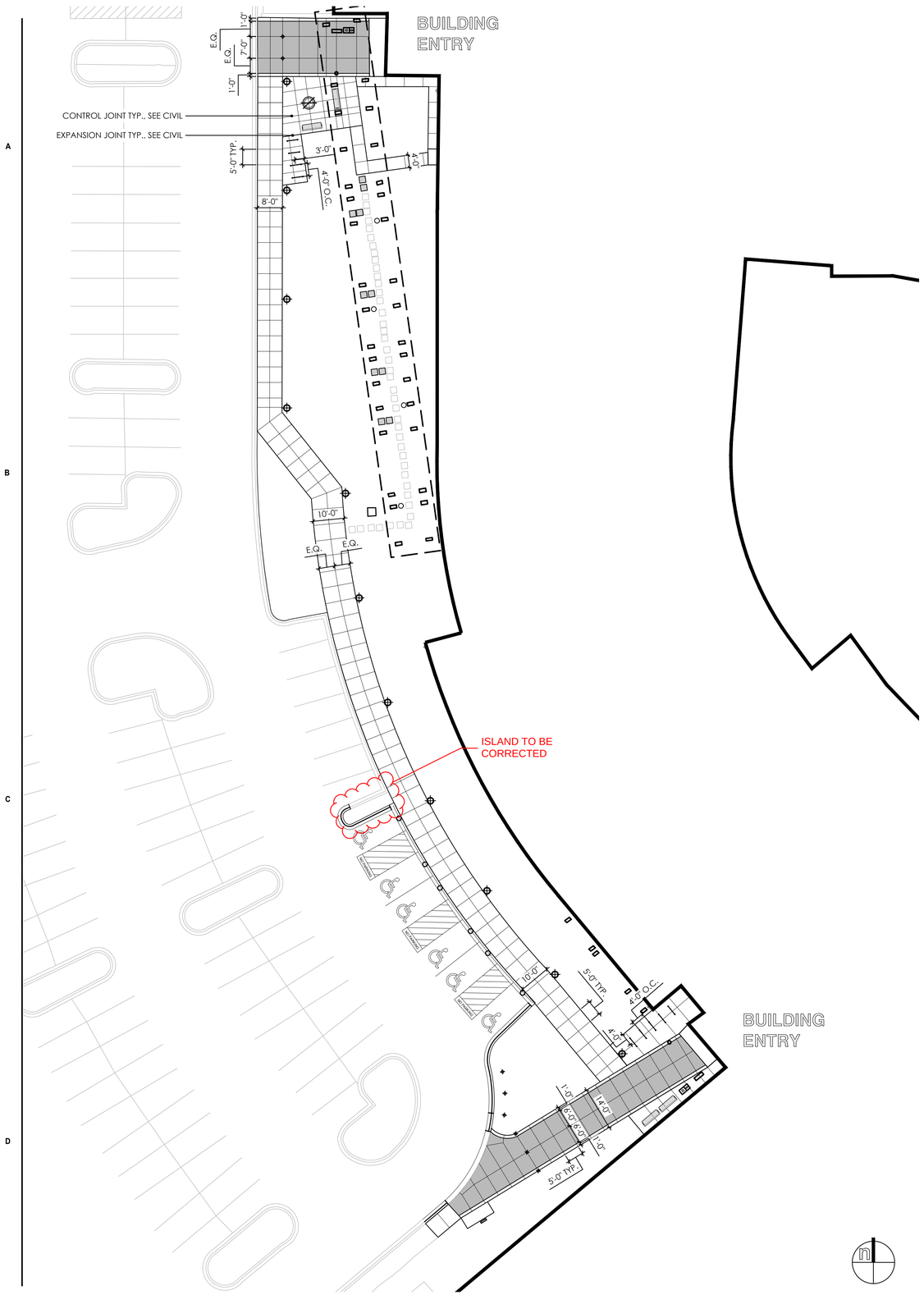
ALLIANCE

SITE PLAN

L1.0



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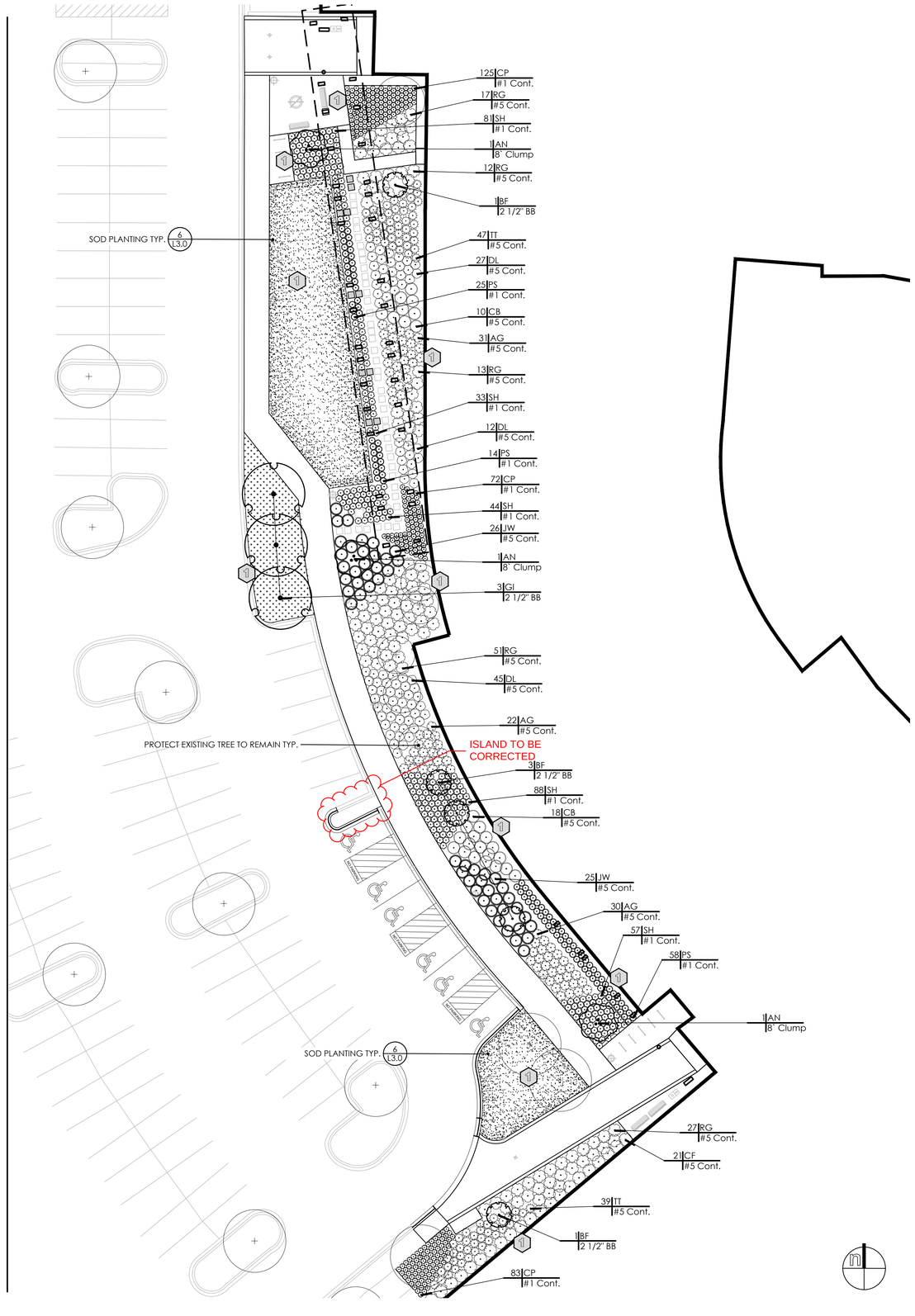
ALLiiANCE

LAYOUT PLAN

L1.1



soils notes

IT IS ASSUMED THAT EXISTING TOPSOIL/PLANTING SOILS IN MOST TURFGRASS AREAS AND PLANTING BEDS CAN BE LEFT IN PLACE AND RE-USED OR STOCKPILED AND RE-SPREAD. ALL TURGRASS AREAS SHALL HAVE A MINIMUM TOPSOIL DEPTH OF 4". ALL PLANTING BEDS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF 6". IF ADDITIONAL PLANTING SOIL IMPORT IS REQUIRED, SEE SPEC FOR PLANTING SOIL REQUIREMENTS.

key notes

1. IRRIGATION: PROVIDE IRRIGATION FOR SOD AND PLANTING AREAS WITHIN THE PROJECT BOUNDARIES FOR 100 % COVERAGE. REFER TO DESIGN BUILD IRRIGATION SPECIFICATION. PROVIDE SHOP DRAWING FOR IRRIGATION SYSTEM INCLUDING HEAD LAYOUT, SPACING, TYPE, BACKFLOW PREVENTER LOCATIONS, POINT OF CONNECTION, SLEEVES, CONTROLLER, VALVE BOX LOCATIONS, ZONE INDICATIONS AND PIPE SIZING. PROVIDE ON-SITE OPERATION TUTORIAL FOR OWNER AN INCLUDE ALL MANUALS AND INFORMATION ON THE SYSTEM

planting notes

1. CONFIRM ALL QUANTITIES, SHAPES AND LOCATIONS OF BEDS, AND ADJUST AS REQUIRED TO CONFORM TO THE SITE CONDITIONS. CONFIRM ANY ADJUSTMENTS WITH THE LANDSCAPE ARCHITECT.
2. LOCATE ALL UTILITIES. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH NEW CONSTRUCTION.
3. ALL PLANTING AREAS SHALL RECEIVE HARDWOOD SHREDDED MULCH APPLIED TO 4" DEPTH WITH PELLET WEED PREVENTER UNDER ALL MULCH BEDS UNLESS INDICATED AS OTHER MULCH ON PLANS.
4. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL SOD/TURF WHICH HAS BEEN REMOVED FOR NEW PLANT BEDS.
5. ANY PLANT STOCK NOT PLANTED ON DAY OF DELIVERY SHALL BE HEELED IN AND WATERED UNTIL INSTALLATION. PLANTS NOT MAINTAINED IN THIS MANNER WILL BE REJECTED.
6. THE PLAN TAKES PRECEDENCE OVER THE PLANT SCHEDULE IF DISCREPANCIES EXIST. ADVISE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL AVOID DAMAGING EXISTING TREES. DO NOT STORE OR DRIVE HEAVY MATERIALS OVER TREE ROOTS. DO NOT DAMAGE TREE BARK OR BRANCHES.
8. THE CONTRACTOR SHALL KEEP PAVEMENTS, FIXTURES AND BUILDINGS CLEAN AND UNSTAINED. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE PROJECT SITE SHALL BE KEPT CLEAR OF CONSTRUCTION WASTES AND DEBRIS.
9. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING SOIL QUANTITIES TO COMPLETE THE WORK SHOWN ON THE PLAN. MULCH, PLANTING SOIL AND OTHER MISCELLANEOUS PLANTING COMPONENTS SHALL BE CONSIDERED INCIDENTAL TO THE RELATED PLAN. VERIFY ALL QUANTITIES.
10. CONTRACTOR IS RESPONSIBLE FOR WATERING AND ALL PLANT CARE UNTIL FINAL ACCEPTANCE BY THE OWNER.
11. PLANT MATERIAL SHALL BE PROTECTED AND MAINTAINED UNTIL THE INSTALLATION OF PLANTINGS IS COMPLETE, INSPECTION HAS BEEN MADE AND PLANTING IS ACCEPTED EXCLUSIVE OF THE GUARANTEE
12. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, MULCHING, REMOVAL OF DEAD MATERIAL PRIOR TO GROWING SEASON, RE-SETTING PLANTS AND PROPER GRADE, AND KEEPING PLANTS IN A PLUMB POSITION. AFTER ACCEPTANCE, THE OWNER SHALL ASSUME MAINTENANCE RESPONSIBILITIES. HOWEVER, THE CONTRACTOR SHALL CONTINUE TO BE RESPONSIBLE FOR KEEPING THE TREES PLUMB THROUGHOUT THE GUARANTEE PERIOD.
13. WATERING: MAINTAIN A WATERING SCHEDULE WHICH WILL THOROUGHLY WATER ALL PLANTS ONCE A WEEK AND SOD EVERY OTHER DAY UNTIL ACCEPTANCE BY THE OWNER, IN EXTREMELY HOT, DRY WEATHER, WATER MORE OFTEN AS REQUIRED BY INDICATIONS OF HEAT STRESS SUCH AS WILTING LEAVES. CHECK MOISTURE UNDER MULCH PRIOR TO WATERING TO DETERMINE NEED. CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR WATER.
14. SEE PLANTING DETAILS: 1-4/L3.0

plant schedule

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	QTY
TREES				
	AN	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Serviceberry	8` Clump	3
	BF	Betula platyphylla 'Fargo' / Dakota Pinnacle® Asian White Birch	2 1/2" BB	5
	GI	Gleditsia triacanthos inermis 'Impcole' / Imperial® Honey Locust	2 1/2" BB	3

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	QTY
SHRUBS				
	AG	Aronia melanocarpa `UCONNAM012` / Ground Hug® Black Chokeberry	#5 Cont.	83
	CB	Cornus sericea `Bailadeline` / Firedance™ Red Twig Dogwood	#5 Cont.	28
	CF	Cornus stolonifera `Farrow` / Arctic Fire® Red Twig Dogwood	#5 Cont.	21
	DL	Diervilla lonicera / Bush Honeysuckle	#5 Cont.	84
	JW	Juniperus horizontalis `Wiltonii` / Blue Rug Juniper	#5 Cont.	51
	RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	#5 Cont.	120
	TT	Taxus x media 'Tauntonii' / Taunton's Anglo-Japanese Yew	#5 Cont.	86
PERENNIALS				
	CP	Carex pensylvanica / Pennsylvania Sedge	#1 Cont.	280
	PS	Panicum virgatum 'Shenandoah' / Shenandoah Switch Grass	#1 Cont.	97
	SH	Sporobolus heterolepis / Prairie Dropseed	#1 Cont.	303

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	QTY
GROUND COVERS				
	PP2	Poa pratensis / Kentucky Bluegrass	sod	3,234 sf

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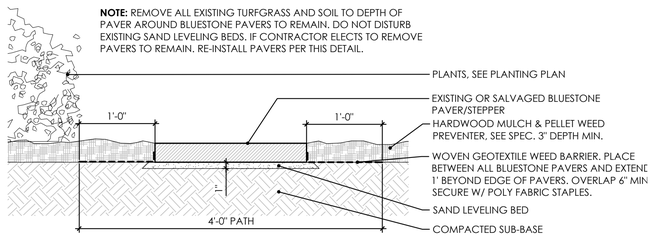
ALLIANCE

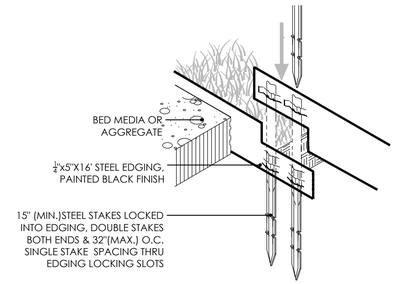
Planting Plan

L2.0

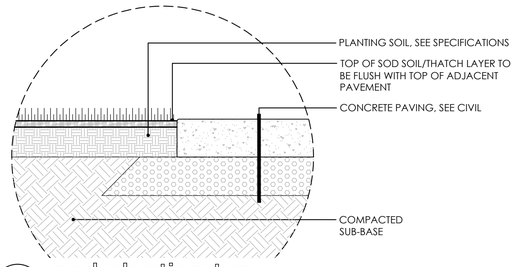


8 bluestone paver typ.
scale: NTS

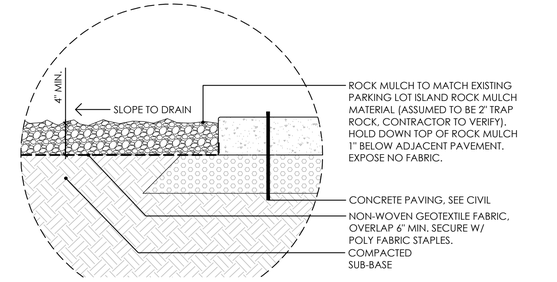
L3.0



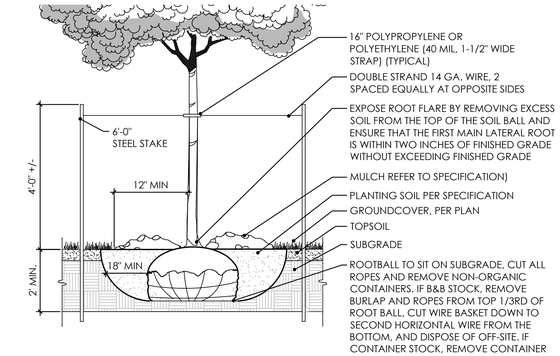
5 landscape edging typ.
scale: NTS



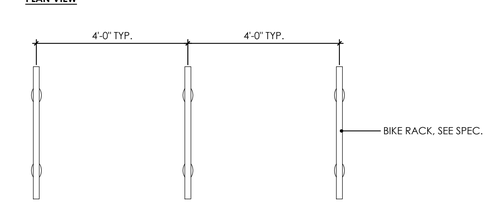
6 sod planting typ.
scale: NTS



1 rock mulch typ.
scale: 1" = 1'-0"

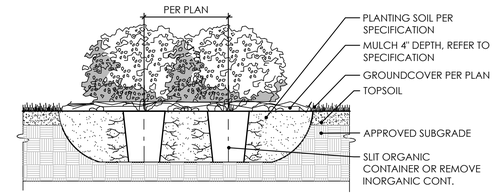


2 deciduous tree planting typ.
scale: NTS

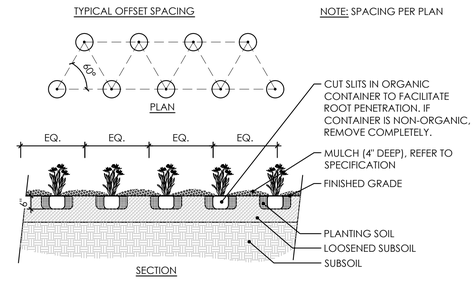


7 bike rack typ.
scale: NTS

NOTES:
1. HAND LOOSEN ROOTS OF CONTAINERIZED MATERIAL (TYPICAL).
2. SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING.
3. SHRUBS TO SIT ON SUBGRADE.
4. APPLY PELLET WEED PREVENTER PRIOR TO MULCHING.



3 shrub planting typ.
scale: NTS



4 perennial planting typ.
scale: NTS

PROJECT

Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT

City of Bloomington

CLIENT PROJECT NUMBER: 25-10

ARCHITECT
Alliance
612.874.4100

LANDSCAPE ARCHITECT
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952.930.0050

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota.

FOR	**Landscape Architect**
BY	
NAME	**Name**
DATE	**2025.01.24**
REG NO.	**Reg Number**

ISSUED FOR	DATE
95% REVIEW	02.07.2025

COMMISSION NO **2025008-08 (2023003-09)**

ALLIANCE

Details

L3.0

MARKS AND SYMBOLS LEGEND:

MARKS:

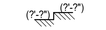
B1001	CONCRETE BEAM MARK NUMBER
B1001-PT	POST TENSIONED CONCRETE BEAM MARK NUMBER
BP1	BEARING / BASE PLATE MARK NUMBER
BRF1	BRACE FRAME MARK NUMBER
BR1	MILD STEEL BOTTOM REINFORCING MARK NUMBER
C1	COLUMN MARK NUMBER
CC1	CONCRETE COLUMN MARK NUMBER
CW1	CONCRETE WALL NUMBER
D1	STEEL DECK MARK NUMBER
DC1	DROP CAPITAL MARK NUMBER
DP1	DRILLED PIER MARK NUMBER
DPC1	DRILLED PIER CAP NUMBER
EP1	EMBEDDED PLATE MARK NUMBER
F1	SPREAD FOOTING MARK NUMBER
GB1	GRADE BEAM MARK NUMBER
H1	HEADER MARK NUMBER
HCP	HOLLOW CORE PLANK
HD1	HOLD DOWN MARK NUMBER
J10	JOIST MARK NUMBER
L1	LINTEL MARK NUMBER
MC1	MASONRY COLUMN MARK NUMBER
MF1	MOMENT FRAME MARK NUMBER
MW1	MASONRY WALL NUMBER
P1	PIER MARK NUMBER
PC1	PILE CAP MARK NUMBER
RD1	ROOF DECK MARK NUMBER
S1	SLAB MARK NUMBER
SC1	STEEL COLUMN MARK NUMBER
SR1	STUD RAIL REINFORCING MARK NUMBER
SW1	SHEAR WALL MARK NUMBER
T1	TRUSS MARK NUMBER
TR1	MILD STEEL TOP REINFORCING MARK NUMBER
W1	WALL MARK NUMBER
WC1	WOOD COLUMN MARK NUMBER
WF1	WALL FOOTING MARK NUMBER
WO1	WEB OPENING

GENERAL SYMBOLS:

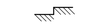
APPROXIMATE LOCATION OF DRAIN TILE

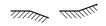
MATCH LINE

LINE OF DEMOLITION



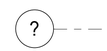
SLAB STEP LOCATION WITH ELEVATIONS


SLAB STEP LOCATION

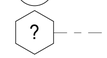

CHANGE IN SLAB SLOPE


CHANGE IN SLAB THICKNESS

KEYNOTE MARK NUMBER



NEW BUILDING GRID LINE



EXISTING BUILDING GRID LINE


ELEVATION MARKER

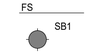

SHADED AREA INDICATES CUT THROUGH EXISTING CONSTRUCTION


SHADED AREA INDICATES PROJECTION OF EXISTING CONSTRUCTION

WALL MARK NUMBER OR WALL TYPE


APPROXIMATE LOCATION OF UTILITY PIPE PENETRATION THROUGH FOUNDATION WALL

FOOTING STEP LOCATION



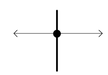
APPROXIMATE LOCATION OF SOIL BORING


COMPRESSION PILE

TENSION / COMPRESSION PILE

TEST PILE

SPAN DIRECTION OF ELEMENT


EXTENT OF ELEMENT

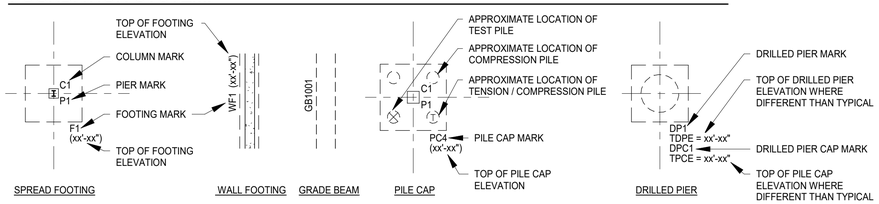
CONTINUOUS EXTENT OF ELEMENT

DETAIL CALLOUT

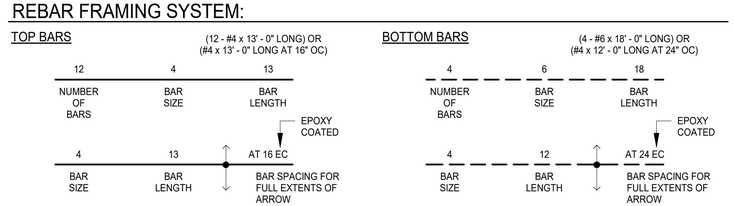
ELEVATION CALLOUT

PLAN SYMBOLS LEGEND:

FOUNDATION SYSTEM:



REBAR FRAMING SYSTEM:



STRUCTURAL ABBREVIATIONS:

A	
ADDL	ADDITIONAL
ADJ	ADJACENT
ALT	ALTERNATE
ALUM	ALUMINUM
AR	ANCHOR ROD
ARCH	ARCHITECT
B	
BDE	BOTTOM OF DECK ELEVATION
BFE	BOTTOM OF FOOTING ELEVATION
BM	BEAM
BOL	BOTTOM OF LINTEL
BOT	BOTTOM
BP	BEARING PLATE / BASE PLATE
BR	BOTTOM REINFORCING
BTWN	BETWEEN
C	
CA	COLUMN ABOVE
CANTL	CANTILEVER
CB	COLUMN BELOW
CFS	COLD-FORMED STEEL
CGS	CENTER OF GRAVITY STRAND
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR	CLEAR
CLT	CROSS LAMINATED TIMBER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN(S)	CONNECTION(S)
CONST	CONSTRUCTION
CONT	CONTINUOUS
COSP	CODE OF STANDARD PRACTICE
D	
d	NAIL DIAMETER
db	BAR DIAMETER
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DF	DOUGLAS FIR-LARCH
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DLT	DOWEL LAMINATED TIMBER
E	
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EJ	EXPANSION JOINT
EMBED	EMBEDMENT
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
E-W	EAST - WEST DIRECTION
(E)	EXISTING
EXP	EXPANSION
F	
FDN	FOUNDATION
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
FS	FOOTING STEP
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
G	
GA	GAGE/GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GLB	GLUE LAMINATED BEAM
GLC	GLUE LAMINATED COLUMN
GLT	GLUE LAMINATED TIMBER
GR	GRADE
GSN	GENERAL STRUCTURAL NOTES
GWB	GYPSUM WALL BOARD
H	
HK	HOOK
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SHAPE
HT	HEIGHT
I	
ID	INSIDE DIAMETER
INCL	INCLUDE
ISF	INSIDE FACE
J	
JT	JOINT
JBE	JOIST BEARING ELEVATION
K	
K	KIPS
KLF	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
KO	KNOCK OUT
L	
LB(S)	POUND(S)
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LSL	LAMINATED STRAND LUMBER
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LWT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
M	
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MSR	MACHINE STRESS RATED
MTL	METAL
N	
NIC	NOT IN CONTRACT
N-S	NORTH - SOUTH DIRECTION
NLT	NAIL LAMINATED TIMBER
NTS	NOT TO SCALE
NWT	NORMAL WEIGHT
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
O/O	OUT TO OUT
P	
PAF	POWER ACTUATED FASTENER
PC	PRECAST CONCRETE
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PRE FAB	PREFABRICATED
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	POST TENSIONED
Q	
QTY	QUANTITY
R	
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCEMENT/REINFORCING
REQD	REQUIRED
REV	REVISION
RO	ROUGH OPENING
RSS	RUGGED STRUCTURAL SCREW
RTU	ROOF TOP UNIT
S	
SB	SOIL BORING
SC	SLIP CRITICAL
SCHED	SCHEDULE
SER	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT
SIM	SIMILAR
SL	SNOW LOAD
SOG	SLAB ON GRADE
SPA	SPACES
SPEC	SPECIFICATION
SPF	SPRUCE PINE FIR
SS	STAINLESS STEEL
SSLT	SHORT-SLOT LOAD TRANSVERSE
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURE / STRUCTURAL
SYM	SYMMETRICAL
SYP	SOUTHERN YELLOW PINE
T	
T/G	TONGUE AND GROOVED
TBE	TOP OF BEAM ELEVATION
TDE	TOP OF DECK ELEVATION
TEMP	TEMPORARY
TFE	TOP OF FOOTING ELEVATION
TGBE	TOP OF GRADE BEAM ELEVATION
TPCE	TOP OF PILE CAP ELEVATION
TPCPE	TOP OF PRECAST PLANK ELEVATION
TPE	TOP OF PIER ELEVATION
TR	TOP REINFORCING
TRANS	TRANSVERSE
TSE	TOP OF SHEATHING ELEVATION
TSE	TOP OF SLAB ELEVATION
TSE	TOP OF SUBFLOOR ELEVATION
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
URM	UNREINFORCED MASONRY
V	
VERT	VERTICAL
W	
W/	WITH
W/O	WITHOUT
WD	WOOD
WF	WIDE FLANGE
WL	WIND LOAD
WP	WORK POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

SHEET LIST

SHEET #	SHEET NAME
s0.01	STRUCTURAL LEGEND NOTES
s0.02	GENERAL STRUCTURAL NOTES
s1.01	FOUNDATION PLANS
s1.02	SECTION DETAILS

PROJECT

Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT

City of Bloomington

CLIENT PROJECT NUMBER: 25-10

ARCHITECT
Alliance
612.874.4100

LANDSCAPE ARCHITECT
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CIVIL ENGINEER
EVS Engineering
952.646.0256

ELECTRICAL ENGINEER
Emanuelson-Podas, Inc.
952.930.0050

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.

FOR **MBJ**

BY

NAME

DATE

REG NO.

ISSUED FOR	DATE
95% REVIEW	02.07.2025

COMMISSION NO **2023003-05**

ALLIANCE

STRUCTURAL LEGEND NOTES

s0.01

TYPICAL NOTES:
These notes specify the requirements for the design represented in these documents. The construction and materials shall comply with all the pertinent codes and references, plans, and details, including (but not limited to) those shown in architectural, civil, mechanical and electrical drawings.

The Contractor shall verify all dimensions and existing conditions in the field that affect construction prior to commencing work on the affected element or shop drawing submittals. Resolve any discrepancies with the Architect prior to construction.

The contract structural drawings and specifications represent the completed structure. The Contractor is responsible for bracing and shoring (without overstressing) all structural elements as necessary at any stage of construction until completion of the project. The Structural Engineer of Record is not responsible for the Contractor's means, methods, sequences or procedures of construction. Contractor shall recognize and consider effects of thermal movements of structural elements during construction period.

The Contractor is solely responsible for site safety including all temporary precautionary measures and safety programs. Site observation visits by the Structural Engineer of Record do not include review of the contractor's safety precautions.

Refer to architectural, mechanical and electrical drawings for locations, elevations, dimensions, and details of sleeves, inserts, openings, recesses, curbs, housekeeping pads, etc. that are not shown on the structural drawings and do not damage structural members.

Information shown in the structural drawings regarding existing conditions represents the current and general field conditions related to the new work, to the best of our knowledge. Report all discrepancies (unforeseen conditions) to the Architect for resolution prior to performing related new work.

Requests for information shall be submitted in writing and shall reference the part of the construction documents that is in question.

SPECIAL INSPECTIONS:
Special inspections required by the building code and these documents shall be provided in addition to inspections to be performed by the city in which the project is located.

Contractor shall read and understand their duties in the specification and under the building code for special inspections and coordinate as necessary the Owner's responsibilities.

The Special Inspectors shall be provided by the Owner and shall use current structural drawings incorporating all revisions and approved shop drawings.

Special inspection reports are to be submitted promptly and within 24 hours to the Structural Engineer of Record and Contractor from the time when inspections are performed.

The General Contractor shall provide timely notice (minimum 24 hours) to the Special Inspector and sufficient time for the Inspector to perform their inspection.

For a schedule of Special Structural Inspections required by the building code for this project, see the Special Inspection Schedule.

STRUCTURAL TEST AND SPECIAL INSPECTION SCHEDULE:

	Continuous	Periodic	None
1. STEEL CONSTRUCTION: Section 1705.2.1 and Table 1705.2.3			
1.1 Fabricator Documentation - Note (1)	☐	☐	■
1.2 High Strength Bolting-Bearing Material	☐	☐	■
1.3 High-Strength Bolting-Slip-Critical and Material	☐	☐	■
1.4 Steel Material, Seismic - Section 1705.12.1	☐	☐	■
1.5 Welds: Full and Part Pen and Multi-Pass Fillet	☐	☐	■
1.6 Welds: Single Pass Fillet for All Sections	☐	☐	■
1.7 Frame Joint Detail Compliance	☐	☐	■
1.8 Installation of open-web steel joist and joist girders (Section 1705.2.3 and Table 1705.2.3)			
1.8.1 End Connections - Welding or Bolted	☐	☐	■
1.8.2 Bridging - Horizontal or Diagonal			
1.8.2.1 Standard Bridging	☐	☐	■
1.8.2.2 Bridging that differs from the SJI Specifications listed in Section 2207.1	☐	☐	■
2. CONCRETE CONSTRUCTION: Section 1705.3 and Table 1705.3			
2.1 Member Shape and Size Compliance in Formwork	☐	■	☐
2.2 Reinf Steel and PT Tendons Size, Quantity and Placement	☐	■	☐
2.3 Weldability of Reinforcing and Welds	☐	■	☐
2.4 Anchors in Concrete	■	☐	☐
2.5 Use of Required Mix Design	☐	■	☐
2.6 Sample for Specimens and Tests	■	☐	☐
2.7 Placement of CIP Concrete and Shotcrete	■	☐	☐
2.8 Curing Compliance	☐	■	☐
2.9 Strength for Stressing PT Tendons	☐	☐	■
2.10 Prestressing Force Application	☐	☐	■
2.11 Grouting Bonded Tendons - Seismic	☐	☐	■
2.12 Strength for Formwork Removal	☐	■	☐
2.13 Erection of Precast Members	☐	☐	■
3. MASONRY CONSTRUCTION: Section 1705.4			
3.1 Level 2: TMS 602 Table 4			
3.1.1 Proportions of Site-Prepared Mortar	☐	☐	■
3.1.2 Sample Panel Construction	☐	☐	■
3.1.3 Grout Space	☐	☐	■
3.1.4 Placement of Reinforcement, Connectors and Anchors	☐	☐	■
3.1.5 Proportions of Site Prepared Grout	☐	☐	■
3.1.6 Placement of Masonry Units and Mortar Joint Construction	☐	☐	■
3.1.7 Size and Location of Structural Members	☐	☐	■
3.1.8 Welding of Reinforcement	☐	☐	■
3.1.9 Grout Placement	☐	☐	■
3.1.10 Preparation of Grout Specimens, Mortar Specimens and/or Prisms	☐	☐	■
3.2 Level 3: TMS 602 Table 4			
3.2.1 Proportions of Site-Prepared Mortar	☐	☐	■
3.2.2 Sample Panel Construction	☐	☐	■
3.2.3 Grout Space	☐	☐	■
3.2.4 Placement of Reinforcement, Connectors and Anchors	☐	☐	■
3.2.5 Proportions of Site Prepared Grout	☐	☐	■
3.2.6 Placement of Masonry Units and Mortar Joint Construction	☐	☐	■
3.2.7 Size and Location of Structural Members	☐	☐	■
3.2.8 Welding of Reinforcement	☐	☐	■
3.2.9 Grout Placement	☐	☐	■
3.2.10 Preparation of Grout Specimens, Mortar Specimens and/or Prisms	☐	☐	■
4. WOOD CONSTRUCTION: Section 1705.5			
4.1 High Load Diaphragms			
4.1.1 Grade and Thickness of Panel Sheathing	☐	☐	■
4.1.2 Nominal Framing Member Size at Panel Edge	☐	☐	■
4.1.3 Nail Size and Length	☐	☐	■
4.1.4 Fastener Pattern, Spacing and Edge Margins	☐	☐	■
4.2 Metal-Plated Connected Wood Truss Spanning 60' or Greater			
4.2.1 Temporary Restraint/Bracing	☐	☐	■
4.2.2 Permanent Truss Member Restraint/Bracing	☐	☐	■
5. SOILS: Section 1705.6 and Table 1705.6			
5.1 Bearing Material, Capacity and Depth	☐	☐	■
5.2 Compacted Fill Compliance With Soils Report	■	☐	☐
6. DRIVEN DEEP FOUNDATION ELEMENTS: Section 1705.7 and Table 1705.7			
6.1 Pile Material, Size and Length	☐	☐	■
6.2 Test for Pile Capacity	☐	☐	■
6.3 Observation, Compliance and Records per Pile	☐	☐	■
7. CAST-IN-PLACE DEEP FOUNDATIONS: Section 1705.8 and Table 1705.8			
7.1 Observation, Compliance and Records per Pier	☐	☐	■
7.2 Placement location, plumbness, length, diameter, embedment into bedrock (if applicable) and end-bearing strata capacity	☐	☐	■

Notes:
1. When the fabricator does not meet the requirements of 1704.2.5.1.
2. Empirically designed masonry is excluded.

SHOP DRAWINGS:
Allow a 5 day minimum shop drawing review period consideration in construction schedule.

Under no circumstances will MBJ review shop drawings that are considered to be scanned/copied construction document submittals. The Detailer shall produce and submit original documents for review.

The contractor shall submit shop drawings and/or material properties for the following materials:
- Reinforcing bars and related accessories
- Concrete mix designs

DESIGN CODES AND STANDARDS:
2018 International Building Code, as amended and adopted by Bloomington, Minnesota.

MATERIAL PROPERTIES:

Reinforcing Steel (Fy):		
Typical	60,000 psi	ASTM A615 Grade 60
Weldable	60,000 psi	ASTM A706 Grade 60
Cast-in-Place Concrete (f'c) at 28 days, UNO:		
Exterior Concrete	4,500 psi w/ air entrainment	

DESIGN LOADS:
LATERAL LOADS:
Wind Loads: No design required

Seismic Loads:
Primary Seismic Data: No design required

GRAVITY LOADS:
Exterior Site Loads:
Unrestricted Vehicle Access: 250 psf
Fire truck (to be verified with the local jurisdiction):
Wheel load: 25,000 lbs.
Outrigger load: Per fire department, outrigger loads do not apply to the repair locations

FOUNDATIONS:
Design soil bearing pressure = 4000 psf.

The Contractor shall verify the location of all existing and new underground utilities and tanks prior to beginning excavation.

REINFORCED CONCRETE:
Concrete Mix:
Provide concrete mix for review by SER minimum 14 days prior to concrete placement. Mix and deliver concrete in accordance with ASTM C94.
Portland cement shall meet ASTM C150. Maximum fly ash or slag content is 35% of cementitious materials.
Aggregate shall meet ASTM C33. Maximum aggregate size shall be 1 1/2".
Maximum water-cement ratio shall be 0.45.
Water shall be potable.
Concrete to be delivered to the jobsite with a maximum temperature of 55 deg.

The detailing, fabrication and erection of all reinforcing shall be done in accordance with the latest edition of ACI-315, "Manual of Standard Practice for Detailing Reinforced Concrete Structures and ACI-318, "Building Code Requirements for Structural Concrete."

All reinforcing bars are deformed and continuous, unless noted otherwise. Refer to drawings for reinforcing lap length schedule.

Provide suitable wire spacers, chairs, etc. for support of reinforcing steel in proper position while placing concrete. All bars shall be tied to prevent displacement while placing concrete. All chairs and slab bolsters shall be plastic or steel with plastic tips. When reinforcing steel is epoxy coated or p/t tendons are fully encapsulated, all chairs and slab bolsters shall be epoxy coated or plastic and all support bars shall be epoxy coated. Chairs are to be stable and resist tipping.

The fabricator shall submit a complete list of accessories and placing details with the shop drawings.

Locate vertical construction joints in beams and slabs at central one third of span. Refer to drawings for details. Submit proposed construction joint locations to the Structural Engineer of Record for review prior to placement of concrete. Where new concrete is placed against existing concrete, the existing concrete shall be roughened to a minimum 1/4" amplitude.

Refer to drawings for placement guidelines of embedded pipes, sleeves, and conduits. Conduits are not permitted in slabs 3 inches or less in thickness.

Conduit and piping shall be fabricated and installed so that cutting, bending, or displacement of reinforcement from its specified location is not required.

Concrete cover for pipe embedments with their fittings shall be at least 1-1/2 in. for concrete exposed to earth or weather, and at least 3/4 in. for concrete not exposed to weather, or not in contact with ground

Aluminum conduit, aluminum sleeves and aluminum embeds are not permitted in concrete.

All conduits shall be placed within the middle one-third of the slab thickness.

The maximum size of conduits shall be 1 1/4" diameter and shall be spaced no closer (to each other or reinforcing steel) than 4 inches unless prior approval is obtained from the structural engineer.

In areas of high conduit concentration where it is not possible to meet the above requirements, consult the structural engineer prior to placement.

Formwork and all shoring for flatwork shall be left in place until the concrete reaches at least 75 percent of the 28-day compressive strength. Design of shoring and reshoring is the responsibility of the Contractor and shall conform to ACI 347R and ACI 347.2R.
Concrete compressive strength testing used to determine flatwork stripping times shall be performed using one of the following methods:

CIPPOC and standard cylinders cured and stored in the same conditions as the flatwork.

Maturity testing properly calibrated and conducted by an approved testing agency.

Calcium chloride is not permitted as a concrete additive.

Concrete Cover on Reinforcing:

Slab on Grade: upper third of slab

CONCRETE SLABS ON GRADE:
Slabs on grade shall be placed in lane fashion.

The control or construction joints shall be placed as shown on the drawings. The joints shall be spaced as noted below:

Exterior slabs	24 times slab thickness, maximum;
Interior slabs	36 times slab thickness, maximum;
Interior slabs with carpeting	48 times slab thickness, maximum.

The panels formed by control or construction joints shall not be "L" shaped, and a rectangular panel's aspect ratio shall not exceed 1.5.

Refer to the drawings for the typical slab on grade construction and saw cut control joint detail. Control and construction joints must be continuous and not offset.

Refer to drawings for reinforcing at re-entrant corners. Bend bars as necessary at obstructions.

Refer to the specification for the existence, type, and thickness of interior ground vapor retarder. Locate a vapor retarder directly beneath the slab on grade on top of a 6 inch compactable granular base. Refer to the specification for requirements for the compactable granular base.

Mechanically vibrate concrete around trench drains, floor ducts, construction joint dowels, loading docks, architectural features and other embedded items.

Where slab demolition occurs in slabs on grade, curbs and sidewalk areas, typically saw cut slabs for new work to the widths indicated on plan. Where such saw cuts would occur within 3 feet or less of an existing control or construction joint, remove slabs to the nearest existing control or construction joint. Dowel edges as indicated for typical slabs in other areas. Provide slab control joints in new slabs at locations to match existing slab control joints, and also a spacing to keep slab panel aspect ratios as square as possible, but at a spacing not to exceed 10'-0". Slab finishes shall match original existing finishes of surrounding slabs, subject to review of Architect.

PROJECT
Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT
City of Bloomington
CLIENT PROJECT NUMBER: 25-10

ARCHITECT
Alliance
612.874.4100

LANDSCAPE ARCHITECT
Aune Fernandez Landscape Architects
651.341.3611

STRUCTURAL ENGINEER
MBJ Engineering
612.338.0713

CIVIL ENGINEER
EVS Engineering
952.646.0256

ELECTRICAL ENGINEER
Emanuelson-Podas, Inc.
952.930.0050

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.

FOR **MBJ**
BY
NAME
DATE
REG NO.

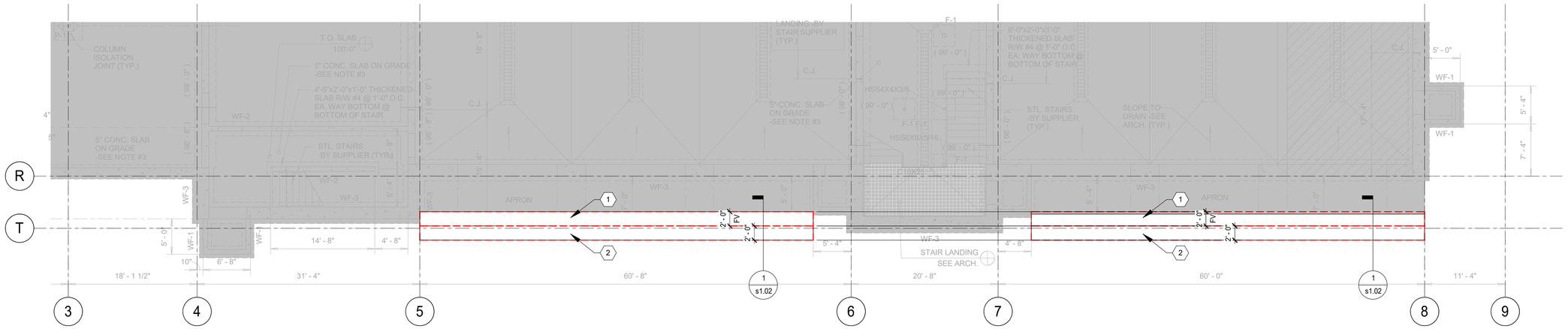
ISSUED FOR	DATE
95% REVIEW	02.07.2025

COMMISSION NO **2023003-05**

ALLIANCE

GENERAL STRUCTURAL NOTES

s0.02



1 s1.01 FOUNDATION DEMOLITION PLAN

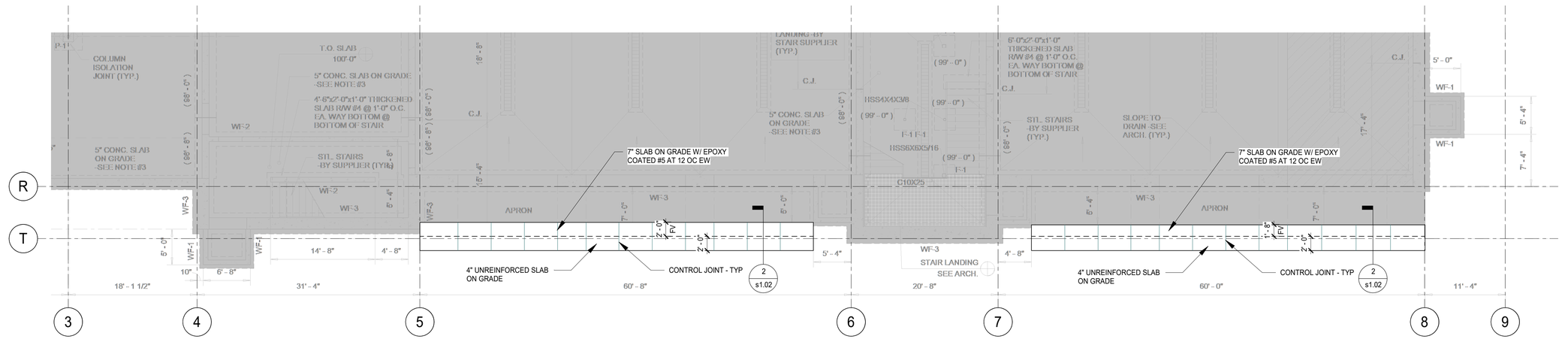
1/8" = 1'-0"

PLAN NOTES (UNLESS NOTED OTHERWISE):

1. SEE S001 FOR GENERAL STRUCTURAL NOTES.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. ALL CONCRETE STRUCTURAL ELEMENTS SHOWN IN GRAY ARE CONSIDERED EXISTING, UNLESS NOTED OTHERWISE. REFER TO EXISTING DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AFFECTING WORK.
5. AT CONCRETE SLAB PERIMETER DEMOLITION, CONTRACTOR SHALL SAWCUT CONCRETE SLAB IN A NEAT LINE

DEMOLITION KEYNOTES:

1. DEMO (E) 7" REINFORCED CONC APRON SLAB
2. DEMO (E) UNREINFORCED CONC SLAB ON GRADE



2 s1.01 FOUNDATION PLAN

1/8" = 1'-0"

PLAN NOTES (UNLESS NOTED OTHERWISE):

1. SEE S001 FOR GENERAL STRUCTURAL NOTES.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. ALL CONCRETE STRUCTURAL ELEMENTS NOT MARKED FOR SIZE ARE CONSIDERED EXISTING, UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AFFECTING WORK.

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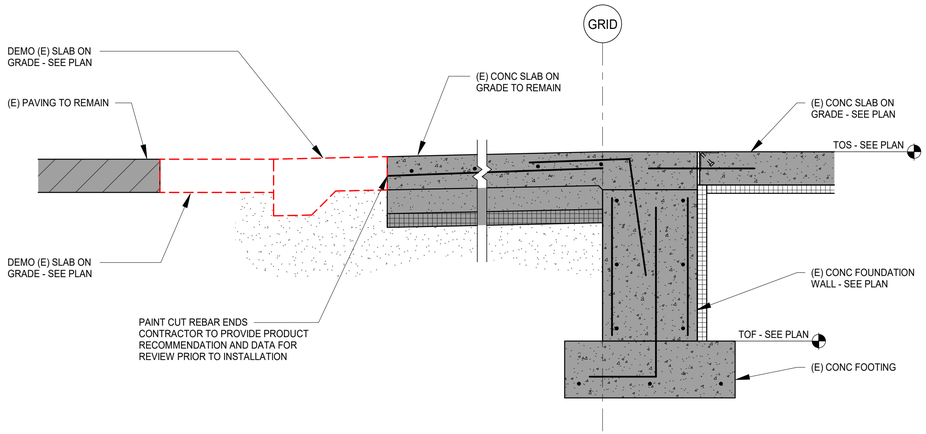
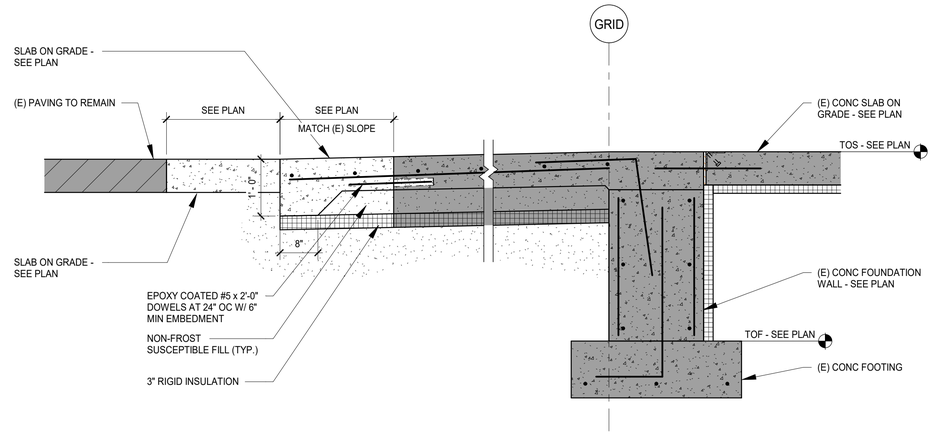
FOUNDATION PLANS

s1.01



1 s1.02 **DEMOLITION SECTION**

3/4" = 1'-0"



2 s1.02 **SECTION**

3/4" = 1'-0"

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ALLIANCE

SECTION DETAILS

s1.02

ELECTRICAL GENERAL NOTES

1 DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.

2 ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A PULLWIRE OR EQUAL AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL, AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.

3 IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.

4 EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY AND, NOT LATER THAN SEVEN DAYS PRIOR TO THE DATE OF RECEIPT OF BIDS, SHALL MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGUITY, INCONSISTENCY, OR ERROR THEREIN WHICH HE MAY DISCOVER. ANY INTERPRETATION OR CORRECTION WILL BE ISSUED AS AN ADDENDUM BY THE ARCHITECT. ONLY A WRITTEN INTERPRETATION OR CORRECTION BY ADDENDUM SHALL BE BINDING. NO BIDDER SHALL RELY UPON INTERPRETATIONS OR CORRECTIONS GIVEN BY ANY OTHER METHOD. IF DISCREPANCIES, AMBIGUITY, INCONSISTENCY, OR ERROR ARE NOT COVERED BY ADDENDUM OR WRITTEN DIRECTIVE CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR, MATERIALS, AND METHODS OF CONSTRUCTION RESULTING IN HIGHER COST. AFTER AWARD OF CONTRACT, NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE IN BEHALF OF THE CONTRACTOR DUE TO HIS FAILURE TO MAKE THE WRITTEN REQUESTS AS DESCRIBED ABOVE.

5 THE PERSON SUBMITTING THE REQUEST WILL BE RESPONSIBLE FOR ITS PROMPT DELIVERY. FAILURE TO SO REQUEST CLARIFICATION OF ANY INADEQUACY, OMISSION, OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY. THE SIGNING OF THE CONTRACT WILL BE CONSIDERED AS IMPLICITLY DENOTING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE WORKING DRAWINGS AND SPECIFICATIONS.

6 CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN HIS BID, COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.

7 WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.

8 WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES.

9 PROVIDE PERMITS AND INSPECTIONS REQUIRED.

10 GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.

11 SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.

12 PROVIDE EXTERIOR PULL BOXES AND HANDHOLES AS REQUIRED TO COMPLETE WORK INDICATED. SPLICES IN EXTERIOR PULL BOXES AND HANDHOLES SHALL BE MADE WATERPROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR APPROVED EQUAL.

13 VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING, AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. REQUIRED. BACKFILL TRENCHES TO AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO WORK.

14 CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING OR FACTORY WIRING IN EQUIPMENT PROVIDED BY THIS CONTRACTOR.

15 CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS.

16 SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE.

17 ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY.

LIGHTING GENERAL NOTES

1 LETTER THUS: "A" – INDICATES TYPE OF LIGHTING FIXTURES. REFER TO LIGHTING FIXTURE TYPES AS NOTED ON THE LIGHTING FIXTURE SCHEDULE. CIRCUIT INDICATED THUS: "A/XX" WHERE "XX" INDICATES CIRCUIT NUMBER.

2 UNLESS SPECIFICALLY NOTED, REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR EXACT EXTERIOR FIXTURE MOUNTING HEIGHTS AND LOCATIONS.

3 DO NOT SHARE NEUTRALS ON LIGHTING CIRCUITS.

ELECTRICAL DEMOLITION GENERAL NOTES

1 PROVIDE ALL ELECTICAL DEMOLITION WORK IN AREAS REQUIRED TO FACILITATE NEW WORK. PROVIDE DISCONNECTION AND REMOVAL OF ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, DEVICES, PANELBOARDS, CONDUIT, UNUSED CONDUIT, WIRE, CABLE, J-BOXES, RECEPTACLES, SWITCHES, LIGHTS, FIRE ALARM DEVICES, ETC., COMPLETE WITH ASSOCIATED CIRCUITING TO SOURCE. WHERE IT IS NOT FEASIBLE TO REMOVE THE ABOVE, OUTLET SHALL BE ABANDONED, WIRE REMOVED, AND BLANK COVER PLATES PROVIDED. DEMOLITION DRAWINGS INDICATE DESIGN INTENT AND MAY NOT BE INCLUSIVE OF ALL MISCELLANEOUS AND INCIDENTAL ITEMS. EXISTING CONDITION DRAWINGS INDICATE CONDITIONS AS THEY WERE PLANNED FOR UNDER PREVIOUS PROJECTS, AND ARE INCLUDED FOR REFERENCE ONLY. NOT ALL EXISTING DEVICES/ITEMS MAY BE SHOWN AND ACTUAL CONDITIONS MAY VARY FROM THE PLANNED CONDITIONS. NO ALLOWANCE WILL BE MADE FOR THE CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING BUILDING CONDITIONS AND THE AMOUNT OF WORK REQUIRED TO COMPLETE THE NEW ELECTRICAL WORK AS SHOWN ON THE DRAWINGS. SYSTEM SHALL BE IN SIMILAR OR BETTER CONDITIONS AFTER COMPLETION OF WORK. TURN OVER TO OWNER ALL EQUIPMENT THAT THEY DESIRE TO RETAIN. ALL OTHER EQUIPMENT SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR RESPONSIBLE FOR DISPOSAL OF FLUORESCENT LAMPS IN COMPLIANCE WITH ALL CURRENT ENVIRONMENTAL PROTECTION REGULATIONS.

2 PROVIDE ELECTRICAL DEMOLITION REQUIRED. REFER TO CIVIL DEMOLITION DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK INVOLVED. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAINTAIN AND/OR RESTORE CONTINUITY OF SERVICE TO EXISTING CIRCUITS.

3 ITEMS IN FULL TONE SHALL BE REMOVED ACCORDING TO THE SPECIFICATIONS AND NOTES UNLESS NOTED OTHERWISE. HALF-TONE ITEMS ARE GENERALLY CONSIDERED EXISTING CONDITIONS TO REMAIN.

4 WHERE AN ELECTRICAL SYSTEM IN THE SPACE IS CALLED OUT TO BE CONNECTED WITH AN EXISTING SYSTEM THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE POINT OF CONNECTION AS WELL AS THE MEANS OF CONNECTION WITH THE EXISTING SYSTEM. CONTRACTOR SHALL PROVIDE ALL NEW HARDWARE COMPONENTS REQUIRED TO INTEGRATE THE NEW DEVICES/COMPONENTS INTO THE EXISTING HEADEND OR SYSTEM CONTROL PANEL. CONTRACTOR SHALL PROVIDE ALL SYSTEM SOFTWARE UPGRADES REQUIRED TO INCORPORATE NEW COMPONENTS INTO EXISTING SYSTEM.

5 CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY EXISTING EQUIPMENT OR CIRCUITS THAT ARE REMAINING TO BE RECONNECTED TO NEW OR EXISTING SWITCHBOARDS/PANELBOARDS. PROVIDE SWITCHES, RECEPTACLES, CONDUIT, WIRE, ETC. AS REQUIRED TO RESTORE CONTINUITY OF CIRCUIT(S).

6 SYSTEM OUTAGES AND SERVICE/FEEDER CUTOVERS SHALL BE PERMITTED ONLY AT TIMES APPROVED BY OWNER, IN WRITING. WORK WHICH COULD RESULT IN AN ACCIDENTAL OUTAGE (BEYOND BRANCH CIRCUITS) SHALL BE PERFORMED WITH THE OWNER'S MAINTENANCE PERSONNEL ADVISED OF SUCH WORK.

7 SERVICE SHALL BE MAINTAINED TO EXISTING AREAS DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE PORTABLE GENERATORS, CABLES, OUTLETS, ETC., AS REQUIRED TO MAINTAIN CONTINUITY OF SERVICE. PLACEMENT OF SUCH PORTABLE EQUIPMENT SHALL BE SUBJECT TO OWNER APPROVAL.

8 CONTRACTOR SHALL PROVIDE NEW UPDATED PANELBOARD DIRECTORIES FOR EXISTING AND NEW CIRCUITS BEING UTILIZED FOR COMPLETION OF PROJECT.

9 IMMEDIATELY AFTER AWARD OF CONTRACT, CONTRACTOR SHALL VERIFY AVAILABLE PHYSICAL SPACE AND AMPACITY OF EXISTING PANELBOARDS, SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, ETC. AND PROVIDE WRITTEN DOCUMENTATION OF FINDINGS TO THE ARCHITECT/ENGINEER. DOCUMENTATION SHALL INCLUDE A MINIMUM 24 HOUR RECORDING AMPERE READING ON ALL EXISTING SWITCHGEAR BEING UTILIZED FOR THIS PROJECT.

10 PATCH AND RESTORE FINISHES WHERE DISTURBED OR DAMAGED DUE TO ELECTRICAL DEMOLITION. REPAINT TO MATCH EXISTING WHERE ELECTRICAL DEVICES AND CONDUIT ARE REMOVED.

ELECTRICAL ABBREVIATIONS

1P	1 POLE (NUMBER DENOTES QUANTITY)
1P1W	1 POLE, 1 WIRE (NUMBER DENOTES QUANTITY)
2W	2 WIRE (NUMBER DENOTES QUANTITY)
72"	MOUNTING HEIGHT (CENTERLINE TO FLOOR OR GRADE)
A	AMPERE
AC	ABOVE COUNTER
AF	AMP FRAME
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ARCH	ARCHITECT(URAL)
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BCE	BUILDING CONTROLLER ENCLOSURE
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CD	CANDELA
CKT	CIRCUIT
CLG	CEILING
CONN	CONNECTION
CONT	CONTINU(E) (OUS) (ED) (ATION)
CONTR	CONTRACTOR
CP	CORD AND PLUG
CT	CURRENT TRANSFORMER
CTE	CONNECT TO EXISTING
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DOWN	DOWN
DSD	DUCT SMOKE DETECTOR
DWG	DRAWING
Δ	DELTA
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
FA	FIRE ALARM
FBO	FURNISHED BY OTHERS
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METALLIC CONDUIT
FUSW	FUSE/SWITCH RATINGS (AMPS)
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFPE	GROUND FAULT PROTECTION EQUIPMENT
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HOA	HAND-OFF-AUTO SWITCH
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ
IAM	INDIVIDUAL ADDRESSABLE MODULE
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS

ELECTRICAL ABBREVIATIONS

KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
LCT	LOAD CENTER TYPE
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LTG	LIGHTING
MAG	MAGNETIC
MAX	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTS	MANUAL TRANSFER SWITCH
#	NUMBER
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OL	OVERLOAD
P	POLE
PB	PULL BOX
PIV	POST INDICATING VALVE
PNL	PANEL
PR	PAR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
PWR	POWER
Ø OR PH	PHASE
REQ	REQUIRED
RSC	RIGID STEEL CONDUIT
SCCR	SHORT CIRCUIT CURRENT RATING
SEC	SECONDARY
SIG	SIGNAL
SP	SPARE
SS	STAINLESS STEEL
SSNR	SOFT START NON-REVERSING
SSR	SOFT START REVERSING
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
T-STAT	THERMOSTAT
TT	THERMAL TOGGLE
TYP	TYPICAL
UG	UNDERGROUND
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER
Y	WYE

ELECTRICAL SYMBOL LEGEND

LIGHTING

SYMBOL	DESCRIPTION	MTG HT
⊡	PEDESTRIAN POLE FIXTURE	GRADE
●	EXTERIOR BOLLARD FIXTURE	GRADE

ELECTRICAL SHEET INDEX

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City of Bloomington

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PRELIMINARY

NOT FOR CONSTRUCTION

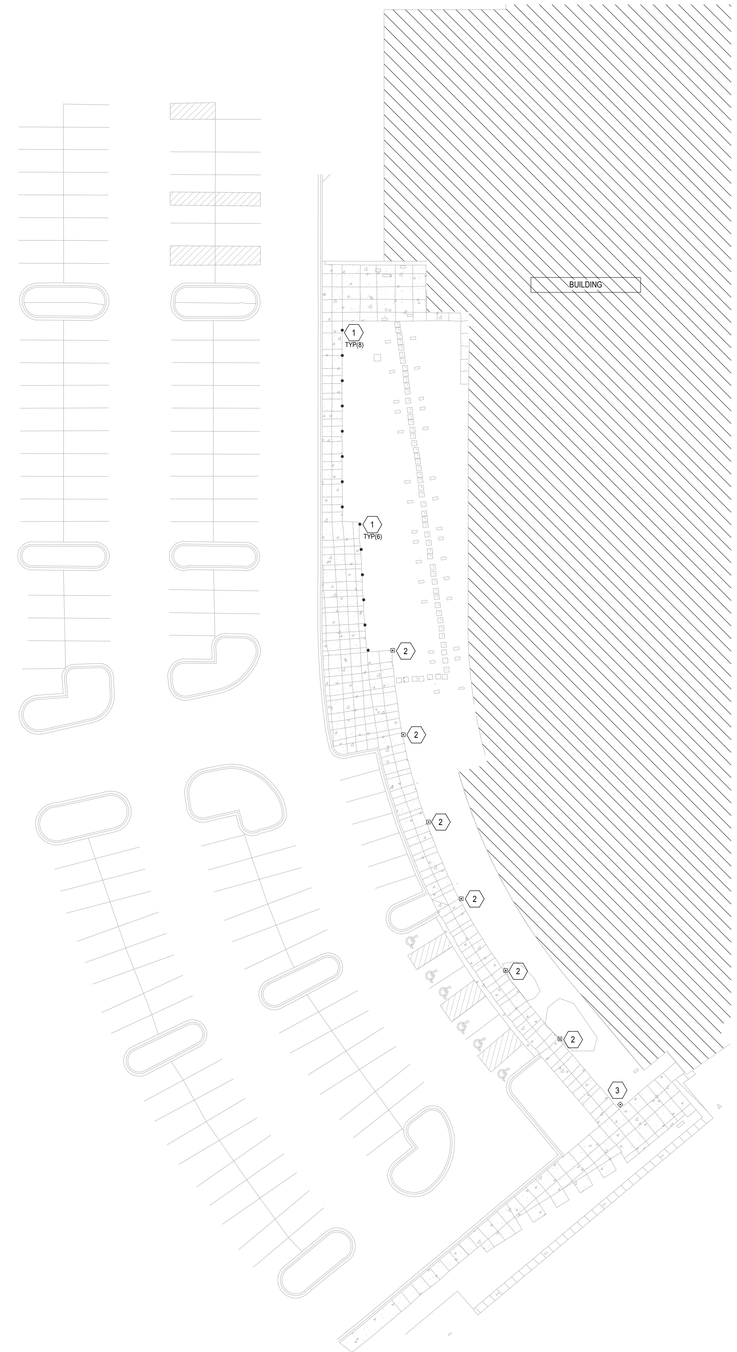
ISSUED FOR	DATE
95% REVIEW	02.07.2025

COMMISSION NO **2025008-08 (2023003-09)**

ALLIANCE

ELECTRICAL TITLE SHEET

e0.00



1 ELECTRICAL SITE DEMOLITION PLAN
SCALE: 1" = 30'-0"

GENERAL NOTES:

A. SEE SHEET E0.1 FOR ADDITIONAL ELECTRICAL GENERAL NOTES.

B. ELECTRICAL DEVICES AND LIGHT FIXTURES SHOWN AS HALF-TONE ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

C. ELECTRICAL DEVICES AND LIGHT FIXTURES SHOWN AS FULL-TONE ARE EXISTING TO BE DEMOLISHED OR RELOCATED UNLESS NOTED OTHERWISE.

KEY NOTES:

1. MAINTAIN EXISTING POWER CONNECTION AND CONTROL WIRING AFTER DEMOLITION OF BOLLARD LIGHT FIXTURE AND CONCRETE BASE FOR RECONNECTION TO NEW BOLLARD LIGHT FIXTURES.
2. REMOVE EXISTING PEDESTRIAN LIGHT POLE HEAD. MAINTAIN EXISTING POWER CONNECTION AND CONTROL WIRING FOR RECONNECTION TO NEW POLE HEADS. MAINTAIN EXISTING POLE AND POLE BASE. REFURBISH POLE FINISH AS REQUIRED. VERIFY ALL POLE REFURBISHMENT WITH OWNER.
3. MAINTAIN EXISTING POWER CONNECTION AND CONTROL WIRING AFTER DEMOLITION OF POLE LIGHT FIXTURE AND CONCRETE BASE FOR RECONNECTION TO NEW POLE LIGHT FIXTURE.

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952.646.0256

ELECTRICAL ENGINEER
Emanuelson-Podas, Inc.
952.930.0050

PRELIMINARY

NOT FOR CONSTRUCTION

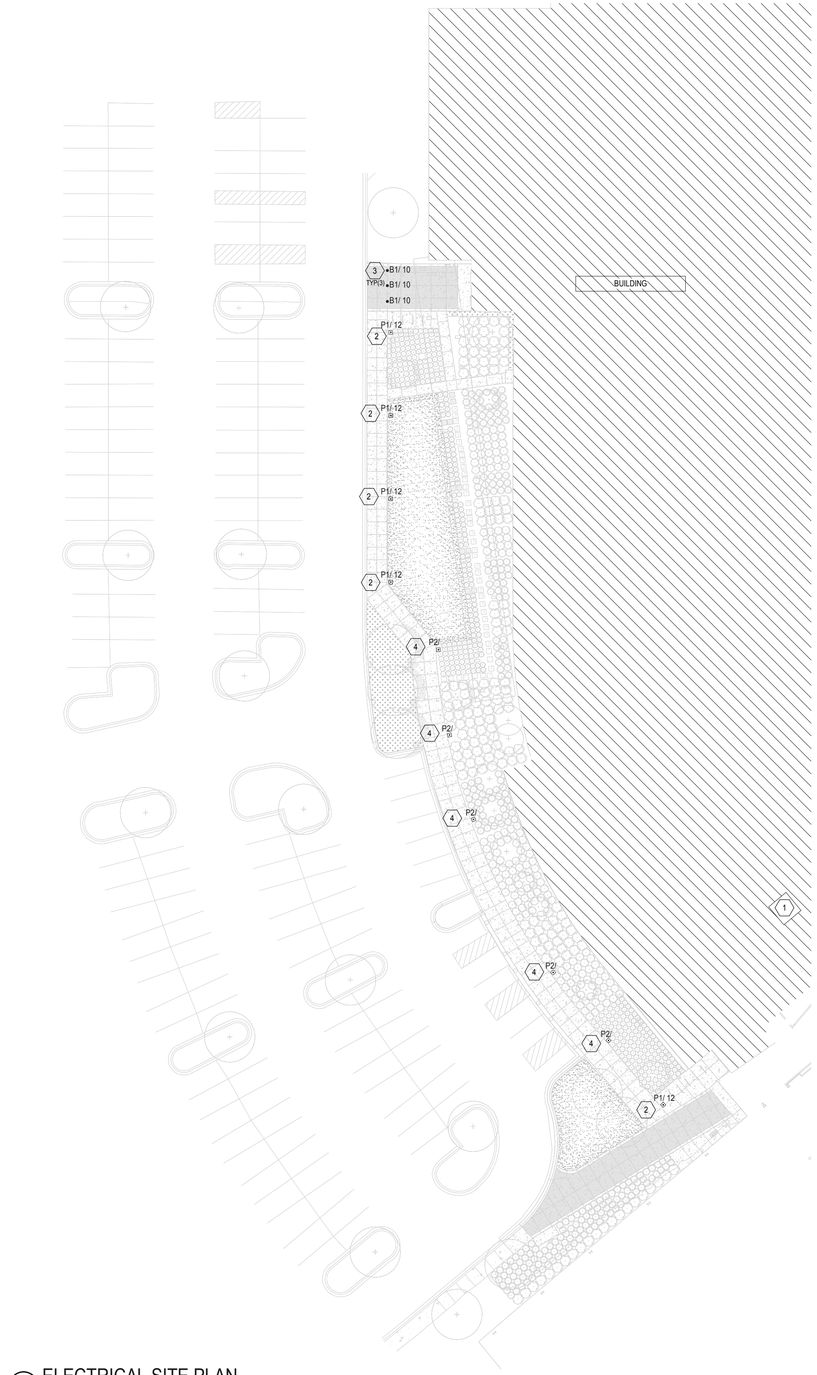
ISSUED FOR	DATE
95% REVIEW	02.07.2025

COMMISSION NO **2025008-08 (2023003-09)**

ALLIANCE

ELECTRICAL SITE DEMOLITION PLAN

ed0.01



1 ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

GENERAL NOTES:

A. ALL SITE LIGHTING CIRCUIT CONDUCTORS SHALL BE #10'S IN 1" PVC CONDUIT, UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE. GROUND WIRE NOT SHOWN IN WIRE COUNT.

B. ALL CONDUCTORS AND CONDUITS SHALL BE ROUTED UNDERGROUND.

C. ANY EXPOSED CONDUIT SHALL BE METALLIC RIGID AND PAINTED TO BLEND WITH ADJACENT SURFACE. RIGID PVC CONDUIT IS NOT ALLOWED FOR APPLICATIONS.

D. ALL SITE LIGHTING SHALL BE FED FROM PANEL H-1 IN ELECTRICAL ROOM B156. FIELD VERIFY ALL CIRCUITS INTENDED FOR RE-USE.

E. EXTERIOR LIGHTING SHALL BE CONTROLLED BY EXISTING EXTERIOR LIGHTING CONTROL CIRCUIT FROM RCP-1 LOCATED IN ELECTRICAL ROOM B156. FIELD VERIFY ALL CONTROL CIRCUITS INTENDED FOR RE-USE.

KEY NOTES:

1. APPROXIMATE LOCATION OF ELECTRICAL ROOM B156. VERIFY EXACT LOCATION IN FIELD.
2. PROVIDE NEW POLE AND CONCRETE POLE BASE. MATCH EXISTING POLE BASE. CONNECT TO EXISTING PEDESTRIAN POLE LIGHTING CIRCUIT AND CONTROLS. EXTEND ALL FEEDER, CONDUIT AND WIRING AS NECESSARY.
3. CONNECT NEW BOLLARD LIGHT FIXTURE TO EXISTING BOLLARD LIGHT FIXTURE CIRCUIT AND CONTROLS MAINTAINED FROM DEMOLITION. PROVIDE NEW CONCRETE BASE. EXTEND ALL FEEDER AND CONDUIT TO NEW LOCATIONS.
4. CONNECT NEW PEDESTRIAN POLE LIGHT FIXTURE HEAD TO EXISTING CIRCUITING AND CONTROLS MAINTAINED FROM DEMOLITION. MOUNT ON EXISTING POLE.

PROJECT

Civic Plaza Site Improvements & FS3 Concrete Repair

Construction Documents

CLIENT

City of Bloomington

CLIENT PROJECT NUMBER: 25-10

ARCHITECT
Alliance
612.874.4100

LANDSCAPE ARCHITECT
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LIGHT FIXTURE SCHEDULE

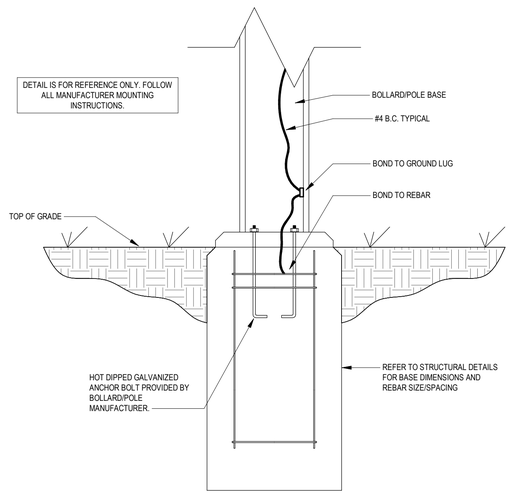
GENERAL NOTES:

A. CATALOG NUMBER INDICATES BASIC FIXTURE TYPE REQUIRED FOR THIS PROJECT AND MAY NOT BE COMPLETE. VERIFY WITH MANUFACTURER TO INCLUDE ALL OPTIONS AND ACCESSORIES REQUIRED FOR THIS INSTALLATION.
B. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FIXTURE LOCATIONS, MOUNTING, AND REQUIREMENTS WITH ARCHITECTURAL PLANS, SECTIONS, ELEVATIONS, AND REFLECTED CEILING PLANS PRIOR TO ORDERING FIXTURES.
C. ALL FINISHES SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ORDERING FIXTURES. FINISH SELECTION TO BE FROM MANUFACTURER'S STANDARD FINISHES UNLESS NOTED OTHERWISE. FINISHES SHALL BE VERIFIED AT THE TIME OF SHOP DRAWING SUBMITTAL.
D. SEE SPECIFICATIONS FOR EXTRA MATERIALS REQUIRED FOR LIGHT FIXTURES.
E. SAMPLES OF ALL FIXTURES SHALL BE AVAILABLE AT THE ENGINEERS REQUEST DURING SHOP DRAWING REVIEW.
F. COORDINATE THE COMPATIBILITY OF DIMMING WITH SPECIFIED CONTROLS. DIMMING SHALL BE ACCOMPLISHED WITH NO VISIBLE FLICKER.
G. NO SUBSTITUTIONS SHALL BE ACCEPTED WITHOUT PRIOR APPROVAL BY THE ENGINEER.
H. EQUALS ARE ACCEPTABLE AND WILL BE REVIEWED AS PART OF THE SHOP DRAWING PROCESS.

FIXTURE NOTES:

1. COORDINATE POLE HEIGHT AND CONCRETE BASE WITH EXISTING TO REMAIN POLES.

TYPE	DESCRIPTION	VOLT	LAMPS TYPE	VA / FIXT.	MANUFACTURER	CATALOG NUMBER	EQUAL MANUFACTURERS	NOTES	TYPE
B1	6" DIAMETER 33" HIGH HARD WIRED LED BOLLARD LIGHT IMPACT RESISTANT LOUVERED LENS. 360 DEGREE LIGHT DISTRIBUTION. BRONZE FINISH. PROVIDE CONCRETE BASE.	277V	LED 3500K	3	LANDSCAPE FORMS	ANNAPOLIS	ACCEPTED EQUALS		B1
P1	LED PEDESTRIAN LIGHT POLE. STRAIGHT HOOD. ALUMINUM HOUSING. SILICONE GASKETING. HIGH IMPACT ACRYLIC LENS. TYPE 3 DISTRIBUTION. DARK BRONZE FINISH. PROVIDE 12' TALL 4" DIAMETER ALUMINUM POLE WITH MATCHING FINISH. PROVIDE CONCRETE BASE.	277V	LED 4000K	61	CURRENT	SP1-STR-Y3-32LED-4K-5500-DBS-PR412	NO EQUALS ACCEPTED	1	P1
P2	LED PEDESTRIAN LIGHT POLE LIGHT HEAD. STRAIGHT HOOD. ALUMINUM HOUSING. SILICONE GASKETING. HIGH IMPACT ACRYLIC LENS. TYPE 3 DISTRIBUTION. DARK BRONZE FINISH. PROVIDE 12' TALL 4" DIAMETER ALUMINUM POLE WITH MATCHING FINISH WHERE INDICATED ON PLANS OR WHERE DETERMINED BY OWNER.	277V	LED 4000K	61	CURRENT	SP1-STR-Y3-32LED-4K-5500-DBS	NO EQUALS ACCEPTED	1	P2



1 TYPICAL BOLLARD/PEDESTRIAN POLE BASE DETAIL
NO SCALE

EXISTING PANEL: H-1

LOCATION:
BUS RATING: 125 A
MAIN BREAKER: MLO

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
AVAILABLE FAULT CURRENT:

MOUNTING: SURFACE
FED FROM: SEE RISER
ENCLOSURE: Type 1

NOTES:
1. ALL CIRCUITS SHOWN IN HALF-TONE (GREY) ARE EXISTING TO REMAIN.

CKT	CIRCUIT DESCRIPTION	CB	P	A		B		C		P	CB	CIRCUIT DESCRIPTION	CKT
1	OFFICE LIGHTING	20	1	2091	1500					3	20	WH-8	2
3	OFFICE LIGHTING	20	1			2091	1500			--	--	--	4
5	OFFICE LIGHTING	20	1					3825	1500	--	--	--	6
7	OFFICE LIGHTING	20	1	1062	0					1	20	ALTERNATE AREA	8
9	OFFICE LIGHTING	20	1			3656	9			1	20	NW BOLLARD LIGHTS	10
11	OFFICE LIGHTING	20	1					1548	305	1	20	WEST PEDESTRIAN POLE LIGHTS	12
13	1ST FLOOR ENTRY, TLTS LTG	20	1	1012	0					1	20	EXTERIOR	14
15	1ST FLOOR CORR LTG	20	1			1035	0			1	20	SPARE	16
17	BUILDING LIGHTS	20	1					186	3190	1	20	SPARE	18
19	SPARE	20	1	0	0					1	20	SPARE	20
21	SPARE	20	1			0	0			1	20	SPARE	22
23	SPARE	20	1					0	0	1	20	SPARE	24
	TOTAL LOAD:			5665 VA		8291 VA		10554 VA					
	TOTAL AMPS:			20 A		31 A		40 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	314 VA	125.00%	393 VA		
Spare	24196 VA	100.00%	24196 VA	**CONNECTED LOAD:**	24510 VA
				ESTIMATED DEMAND:	24589 VA
				CONNECTED CURRENT:	29 A
				EMD CURRENT:	30 A

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ELECTRICAL DETAILS AND SCHEDULES

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